

Cover Page

Order ID : Q1569

Project ID : Fort Meade MD Tipton Airfield Parcel RI - 0111169

Client : Weston Solutions

Lab Sample Number

Q1569-01
Q1569-02
Q1569-04
Q1569-05

Client Sample Number

TAP-IDW-SOIL-031325-01
TAP-IDW-SOIL-031325-01
TAP-IDW-SOIL-031325-02
TAP-IDW-SOIL-031325-02

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 : _____

Date: 3/20/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1569

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 Custody

✓

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: PATEL VAISHALI

Date: 03/20/2025

LAB CHRONICLE

OrderID:	Q1569	OrderDate:	3/14/2025 10:44:00 AM
Client:	Weston Solutions	Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169
Contact:	Nathan Fretz	Location:	I31,I33

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1569-01	TAP-IDW-SOIL-03132 5-01	SOIL			03/13/25			03/14/25
			PCB	8082A		03/14/25	03/14/25	
Q1569-02	TAP-IDW-SOIL-03132 5-01	TCLP			03/13/25			03/14/25
			TCLP Herbicide	8151A		03/19/25	03/19/25	
			TCLP Pesticide	8081B		03/19/25	03/19/25	
Q1569-04	TAP-IDW-SOIL-03132 5-02	SOIL			03/13/25			03/14/25
			PCB	8082A		03/14/25	03/14/25	
Q1569-05	TAP-IDW-SOIL-03132 5-02	TCLP			03/13/25			03/14/25
			TCLP Herbicide	8151A		03/19/25	03/19/25	
			TCLP Pesticide	8081B		03/19/25	03/19/25	



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1569

Order ID: Q1569

Client: Weston Solutions

Project ID: Fort Meade MD Tipton Airfield Parcel

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

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q1569

Client: Weston Solutions

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS029233.D	PIBLK-PS029233.D	2,4-DCAA	1	500	476	95		32	138
		2,4-DCAA	2	500	494	99		32	138
I.BLK-PS029452.D	PIBLK-PS029452.D	2,4-DCAA	1	500	539	108		32	138
		2,4-DCAA	2	500	478	96		32	138
PB167214BL	PB167214BL	2,4-DCAA	1	500	535	107		32	138
		2,4-DCAA	2	500	488	98		32	138
PB167214BS	PB167214BS	2,4-DCAA	1	500	523	105		32	138
		2,4-DCAA	2	500	469	94		32	138
PB167133TB	PB167133TB	2,4-DCAA	1	500	524	105		32	138
		2,4-DCAA	2	500	429	86		32	138
I.BLK-PS029458.D	PIBLK-PS029458.D	2,4-DCAA	1	500	551	110		32	138
		2,4-DCAA	2	500	490	98		32	138
Q1569-02	TAP-IDW-SOIL-031325-01	2,4-DCAA	1	500	427	85		32	138
		2,4-DCAA	2	500	373	75		32	138
Q1569-02MS	TAP-IDW-SOIL-031325-01MS	2,4-DCAA	1	500	447	89		32	138
		2,4-DCAA	2	500	376	75		32	138
Q1569-02MSD	TAP-IDW-SOIL-031325-01MSD	2,4-DCAA	1	500	456	91		32	138
		2,4-DCAA	2	500	381	76		32	138
Q1569-05	TAP-IDW-SOIL-031325-02	2,4-DCAA	1	500	432	86		32	138
		2,4-DCAA	2	500	385	77		32	138
I.BLK-PS029467.D	PIBLK-PS029467.D	2,4-DCAA	1	500	555	111		32	138
		2,4-DCAA	2	500	493	99		32	138

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1569

Client: Weston Solutions

Analytical Method: 8151A

DataFile : PS029461.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID:	TAP-IDW-SOIL-031325-01MS											
Q1569-02MS	2,4-D	50	0	52.5	ug/L	105				45	152	
	2,4,5-TP(Silvex)	50	0	52.3	ug/L	105				51	134	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1569

Client: Weston Solutions

Analytical Method: 8151A

DataFile : PS029462.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TAP-IDW-SOIL-031325-01MSD											
Q1569-02MSD	2,4-D	50	0	53.1	ug/L	106		1		45	152	20
	2,4,5-TP(Silvex)	50	0	53.1	ug/L	106		1		51	134	20



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1569

Client: Weston Solutions

Analytical Method: 8151A **Datafile :** PS029455.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB167214BS	2,4-D	5	4.70	ug/L	94				45	152	
	2,4,5-TP(Silvex)	5	5.10	ug/L	102				51	134	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167214BL

Lab Name: CHEMTECH

Contract: WEST04

Lab Code: CHEM Case No.: Q1569

SAS No.: Q1569 SDG NO.: Q1569

Lab Sample ID: PB167214BL

Lab File ID: PS029454.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 03/19/2025

Date Analyzed (1): 03/19/2025

Date Analyzed (2): 03/19/2025

Time Analyzed (1): 17:58

Time Analyzed (2): 17:58

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
PB167214BS	PB167214BS	PS029455.D	03/19/2025	03/19/2025
PB167133TB	PB167133TB	PS029456.D	03/19/2025	03/19/2025
TAP-IDW-SOIL-031325-01	Q1569-02	PS029460.D	03/19/2025	03/19/2025
TAP-IDW-SOIL-031325-01MS	Q1569-02MS	PS029461.D	03/19/2025	03/19/2025
TAP-IDW-SOIL-031325-01MSD	Q1569-02MSD	PS029462.D	03/19/2025	03/19/2025
TAP-IDW-SOIL-031325-02	Q1569-05	PS029463.D	03/19/2025	03/19/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/19/25
Client Sample ID:	PB167133TB	SDG No.:	Q1569
Lab Sample ID:	PB167133TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :	1.0	Final Vol:	10000
Prep Method :	8151A	Test:	TCLP Herbicide
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029456.D	1	03/19/25 11:15	03/19/25 18:45	PB167214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	9.20	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	7.80	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	524		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\PS031925\
 Data File : PS029456.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 18:45
 Operator : AR\AJ
 Sample : PB167133TB
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB167133TB

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 20 01:37:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.165	7.617	2160.8E6	403.6E6	524.387	429.223
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Target Compounds

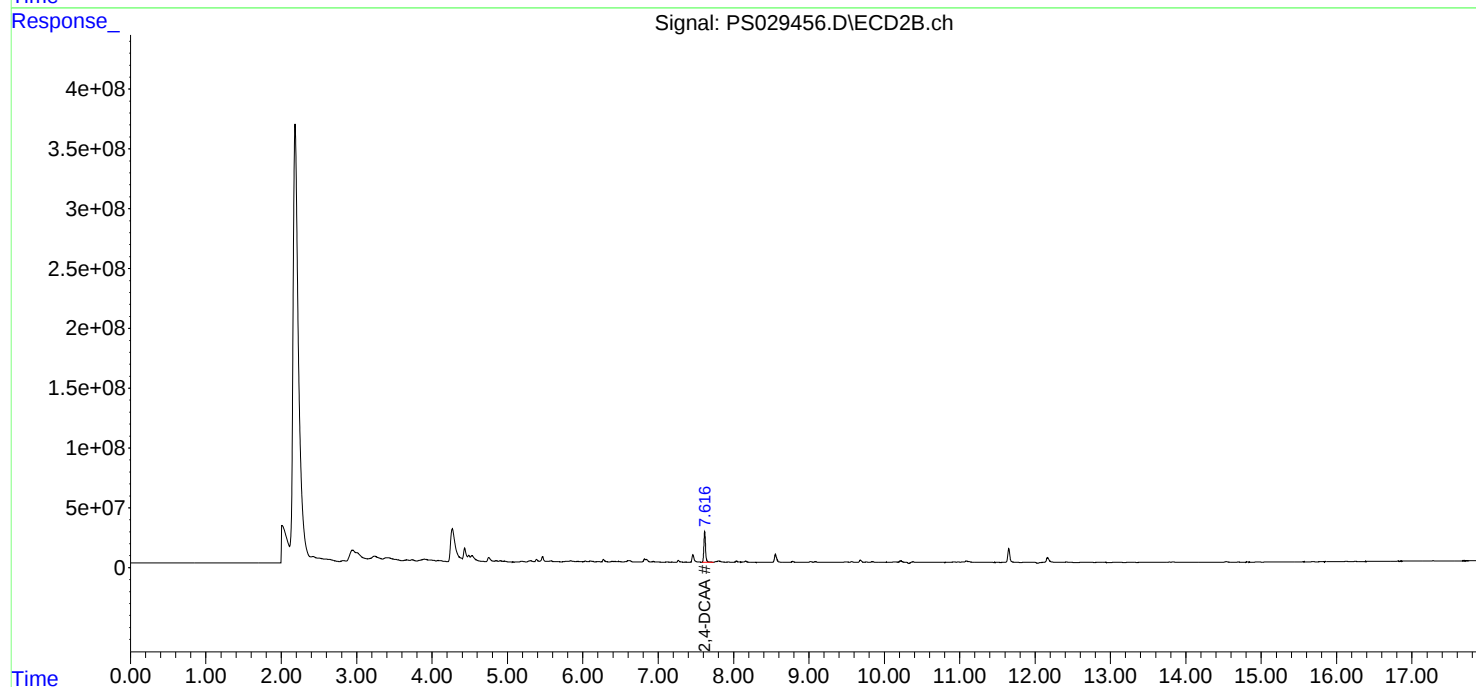
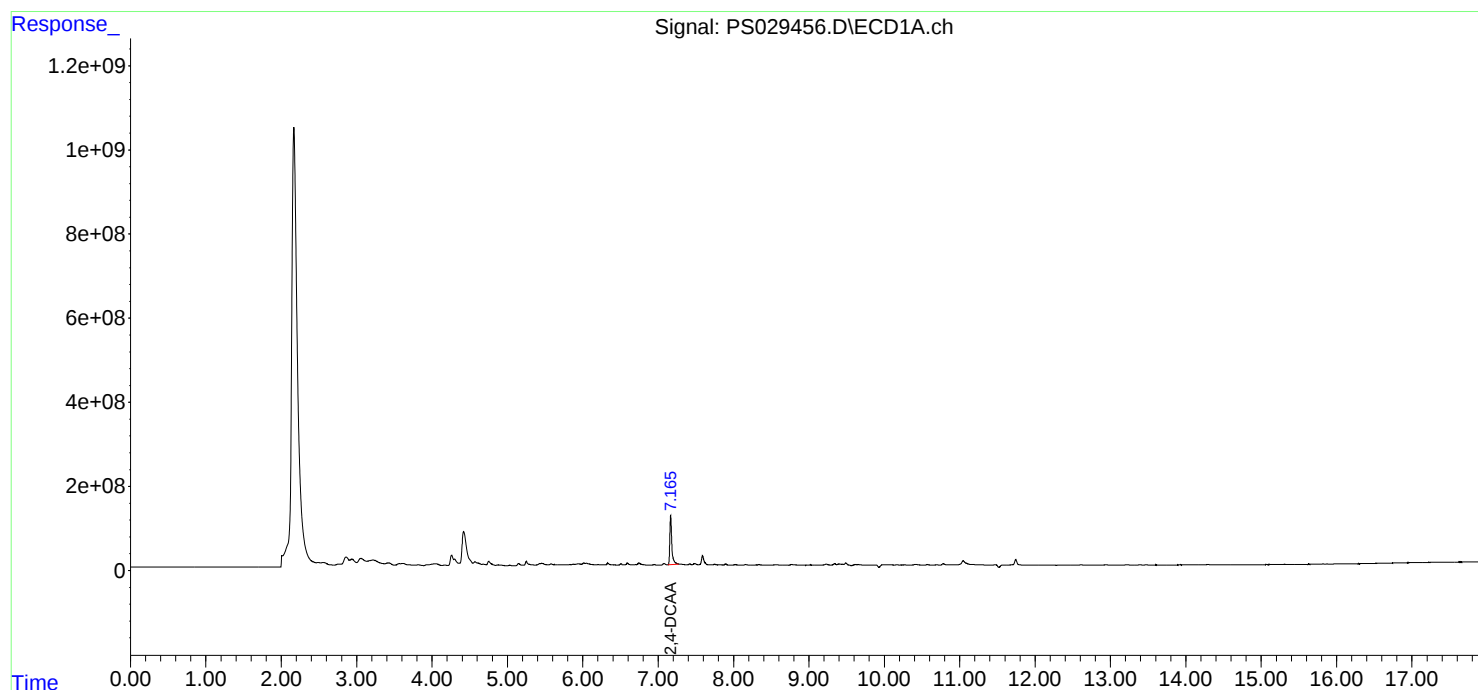
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

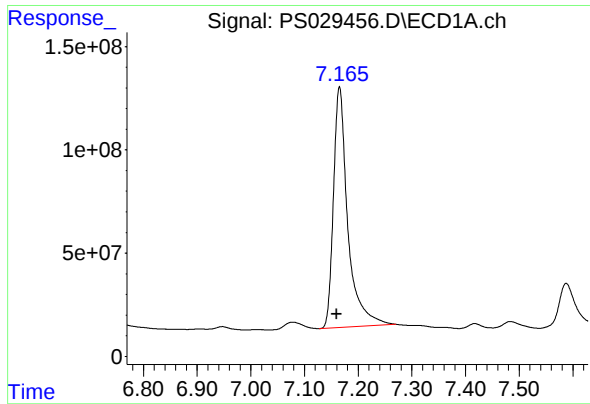
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029456.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 18:45
Operator : AR\AJ
Sample : PB167133TB
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167133TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 01:37:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

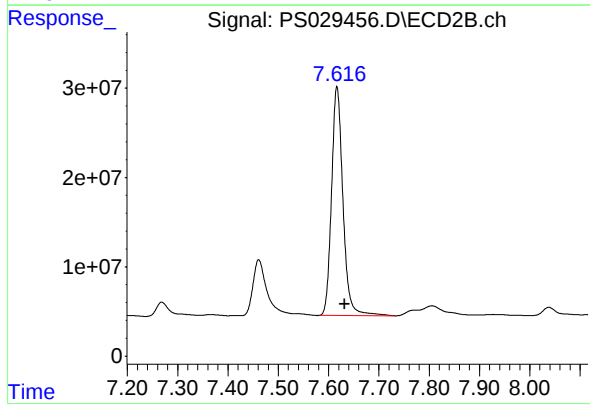




#4 2,4-DCAA

R.T.: 7.165 min
Delta R.T.: 0.006 min
Response: 2160779249
Conc: 524.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167133TB



#4 2,4-DCAA

R.T.: 7.617 min
Delta R.T.: -0.015 min
Response: 403612439
Conc: 429.22 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-01	SDG No.:	Q1569
Lab Sample ID:	Q1569-02	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029460.D	1	03/19/25 11:15	03/19/25 21:10	PB167214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	9.20	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	7.80	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	427		32 - 138		85%	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\PS031925\
 Data File : PS029460.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 21:10
 Operator : AR\AJ
 Sample : Q1569-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TAP-IDW-SOIL-031325-01

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 20 06:56:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.156	7.604	1759.0E6	351.0E6	426.876	373.271m

Target Compounds

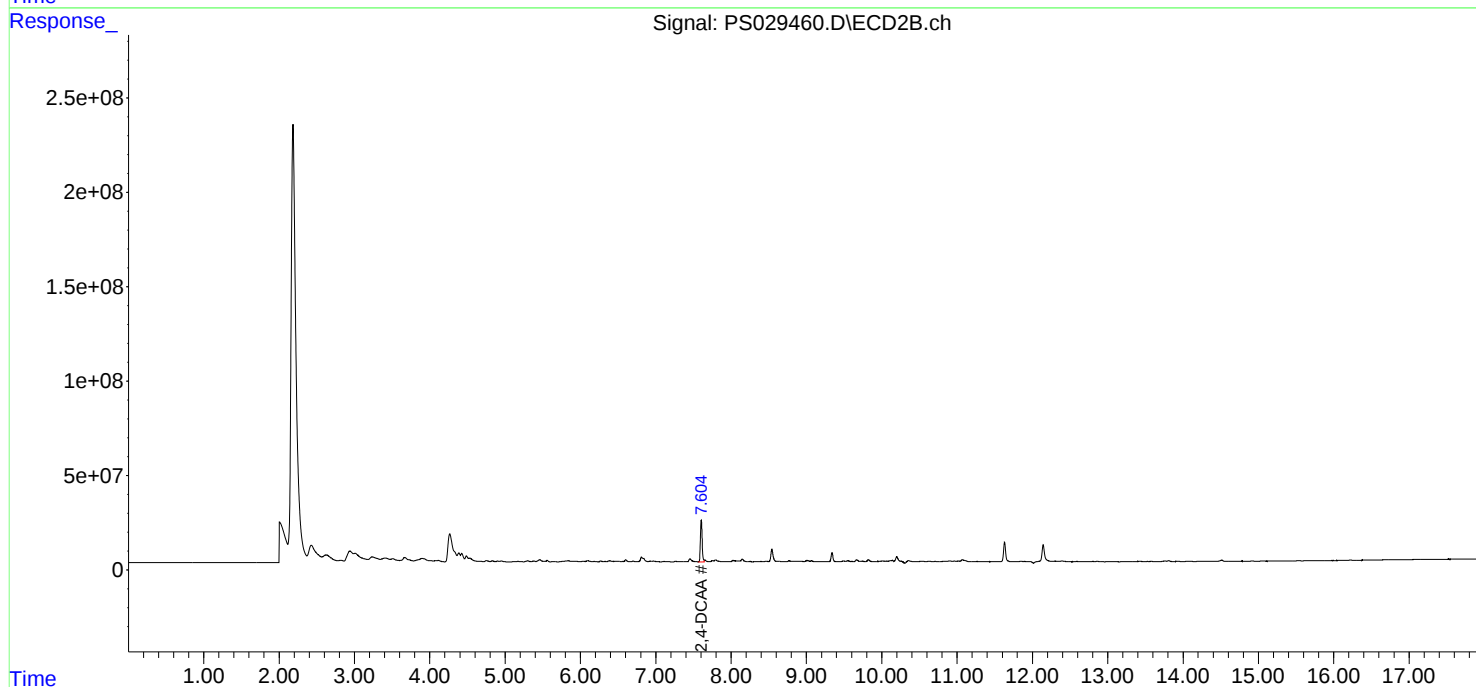
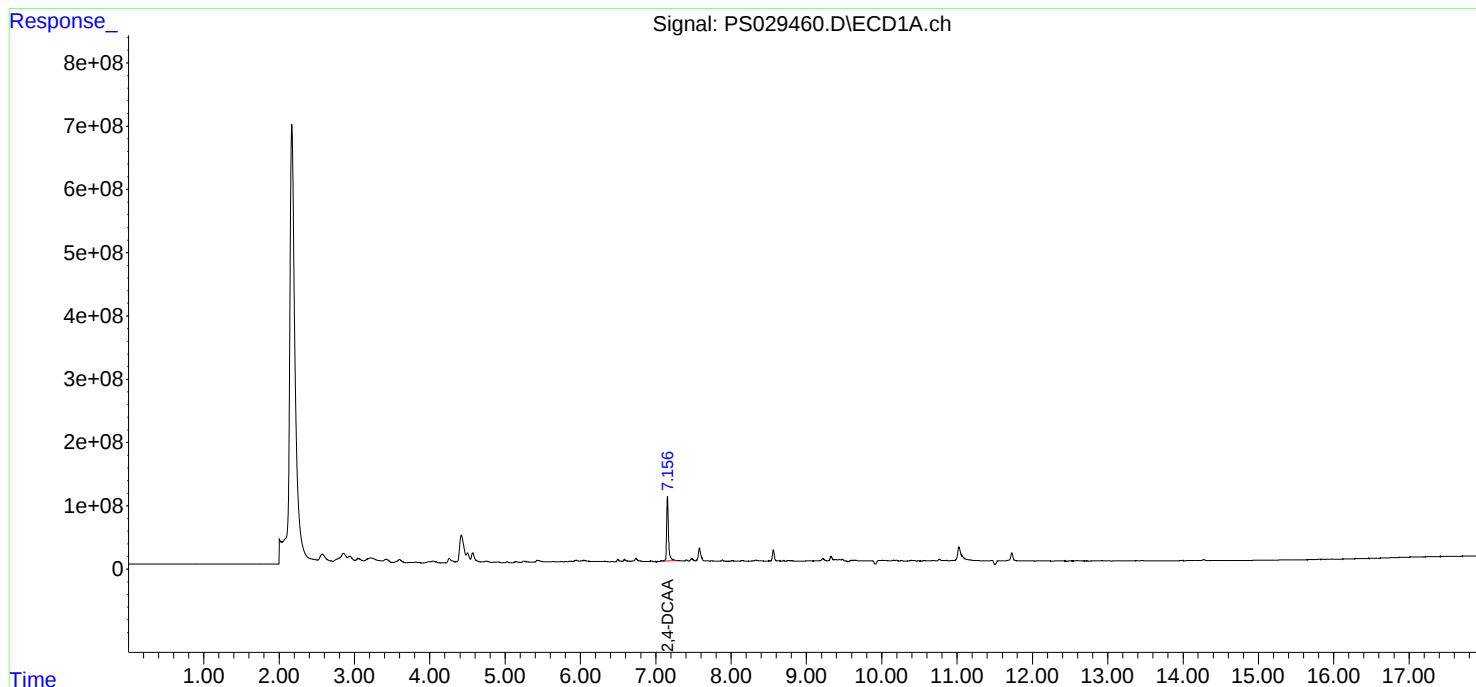
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

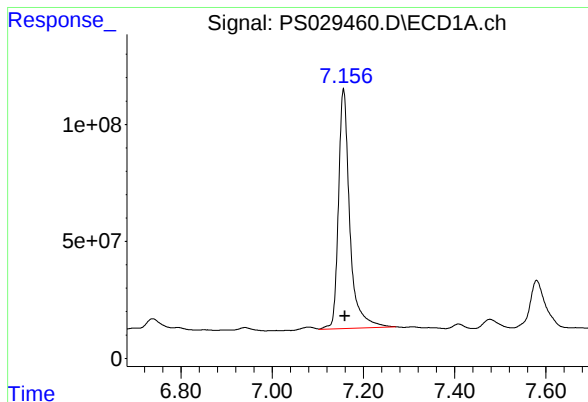
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029460.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 21:10
Operator : AR\AJ
Sample : Q1569-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 06:56:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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.: 7.156 min

Delta R.T.: -0.003 min

Response: 1758974714

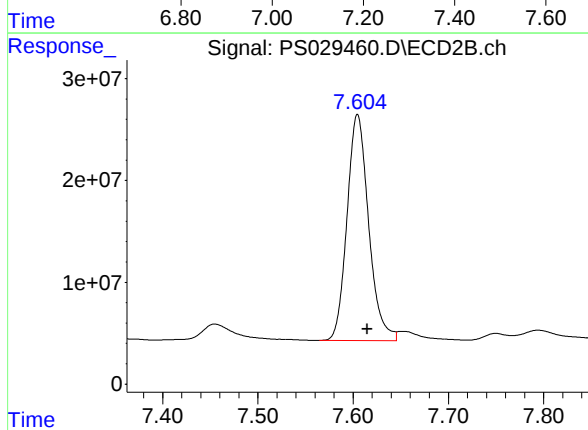
Conc: 426.88 ng/ml

Instrument :

ECD_S

ClientSampleId :

TAP-IDW-SOIL-031325-01



#4 2,4-DCAA

R.T.: 7.604 min

Delta R.T.: -0.011 min

Response: 350998610

Conc: 373.27 ng/ml m

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-02	SDG No.:	Q1569
Lab Sample ID:	Q1569-05	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029463.D	1	03/19/25 11:15	03/19/25 22:21	PB167214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	9.20	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	7.80	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	432		32 - 138		86%	SPK: 500

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

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J = Estimated Value

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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\PS031925\
 Data File : PS029463.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 22:21
 Operator : AR\AJ
 Sample : Q1569-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TAP-IDW-SOIL-031325-02

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 20 07:04:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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
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System Monitoring Compounds

4) S	2,4-DCAA	7.156	7.603	1781.7E6	362.4E6	432.379	385.423m
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Target Compounds

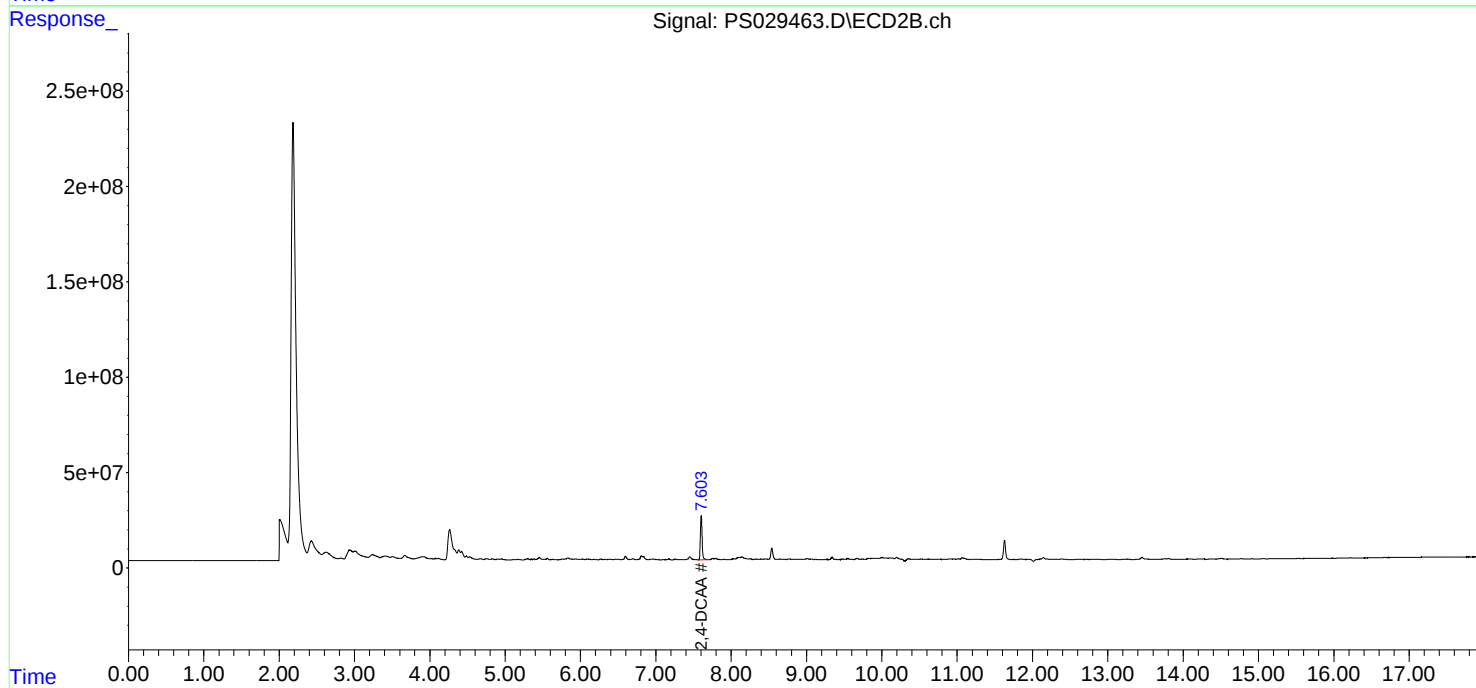
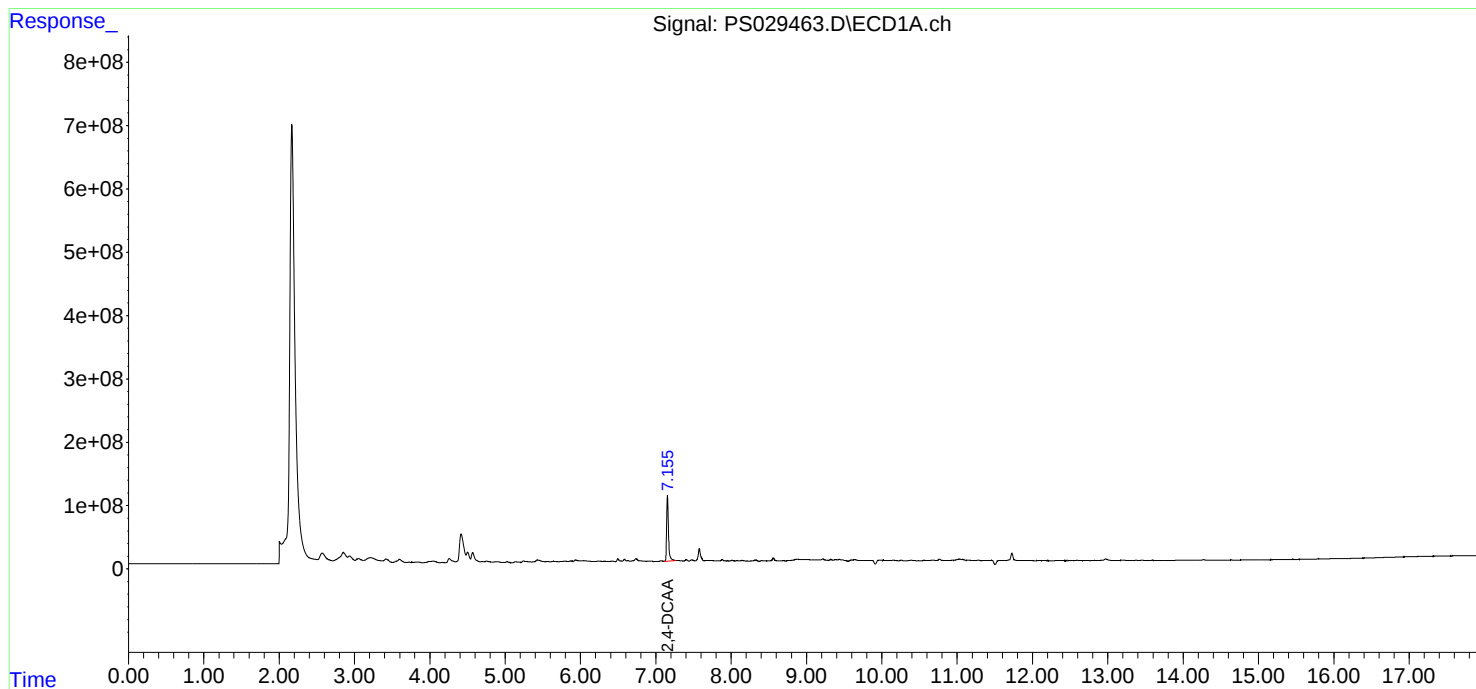
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

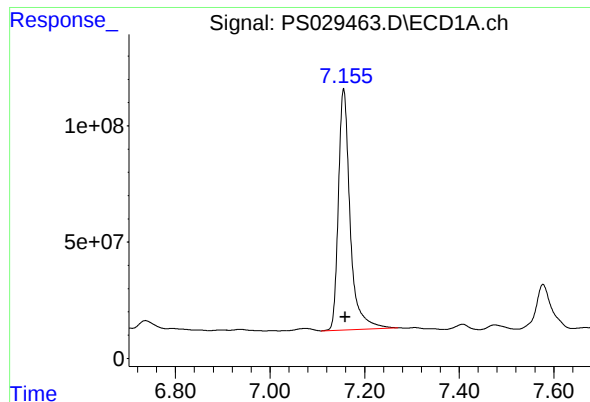
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029463.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 22:21
Operator : AR\AJ
Sample : Q1569-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 07:04:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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.: 7.156 min

Delta R.T.: -0.004 min

Response: 1781652263

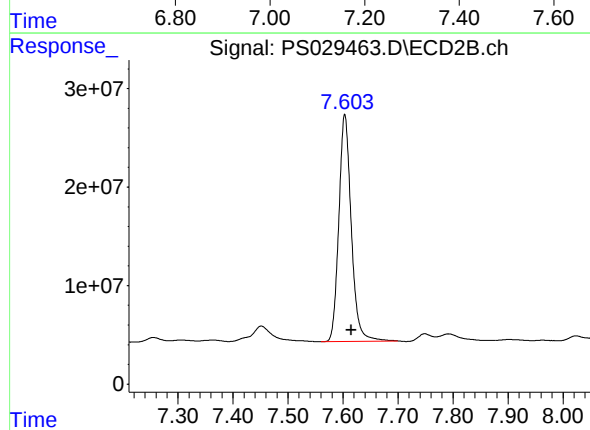
Conc: 432.38 ng/ml

Instrument :

ECD_S

ClientSampleId :

TAP-IDW-SOIL-031325-02



#4 2,4-DCAA

R.T.: 7.603 min

Delta R.T.: -0.012 min

Response: 362425438

Conc: 385.42 ng/ml m



CALIBRATION SUMMARY

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

[illegible]

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

LAB FILE ID:	RT 200 =	<u>PS029234.D</u>	RT 500 =	<u>PS029235.D</u>
RT 750 =	PS029236.D	RT 1000 =	PS029237.D	RT 1500 =
				PS029238.D

[illegible]



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04
Lab Code: CHEM **Case No.:** Q1569 **SAS No.:** Q1569 **SDG NO.:** Q1569
Instrument ID: ECD_S **Calibration Date(s):** 02/21/2025 02/21/2025
Calibration Times: 19:56 21:32

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

LAB FILE ID:		CF 200 = <u>PS029234.D</u>	CF 500 = <u>PS029235.D</u>				
CF 750 = <u>PS029236.D</u>		CF 1000 = <u>PS029237.D</u>	CF 1500 = <u>PS029238.D</u>				
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	28468600000	25326000000	23950000000	23359600000	21830500000	24586900000	10
2,4-D	5578960000	4794680000	4576300000	4498750000	4303460000	4750430000	10
2,4-DCAA	4834500000	4175340000	3953240000	3904380000	3735430000	4120580000	10



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Instrument ID: ECD_S

Calibration Date(s): 02/21/2025 02/21/2025

Calibration Times: 19:56 21:32

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

LAB FILE ID:		CF 200 =	<u>PS029234.D</u>	CF 500 =	<u>PS029235.D</u>		
CF 750 =		<u>PS029236.D</u>	CF 1000 =	<u>PS029237.D</u>	CF 1500 =	<u>PS029238.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	9297750000	9072730000	8996050000	9011120000	8805850000	9036700000	2
2,4-D	1363000000	1257020000	1239960000	1254990000	1234500000	1269900000	4
2,4-DCAA	1014780000	934728000	917942000	923871000	910342000	940333000	5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029234.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 19:56
 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: Feb 22 00:46:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 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	7.161	7.633	966.9E6	203.0E6	244.585	221.099
Target Compounds							
1) T	Dalapon	2.596	2.647	1142.0E6	433.1E6	214.059	210.711
2) T	3,5-DICHL...	6.343	6.605	1252.0E6	283.3E6	220.475	204.397
3) T	4-Nitroph...	6.963	7.165	432.8E6	156.3E6	186.506	200.822
5) T	DICAMBA	7.343	7.827	3685.1E6	960.7E6	217.406	187.446
6) T	MCPD	7.519	7.928	211.8E6	40449994	17.087	17.193
7) T	MCPA	7.666	8.167	314.8E6	56152825	18.744	17.627
8) T	DICHLORPROP	8.043	8.537	1036.6E6	262.9E6	236.416	211.141
9) T	2,4-D	8.274	8.863	1048.8E6	256.2E6	229.191	206.654
10) T	Pentachlo...	8.564	9.379	14573.6E6	4615.9E6	245.609	201.204
11) T	2,4,5-TP ...	9.139	9.756	5409.0E6	1766.6E6	225.847	196.372
12) T	2,4,5-T	9.431	10.172	5625.4E6	1601.6E6	226.279	196.193
13) T	2,4-DB	10.001	10.735	852.9E6	150.7E6	208.417	200.943
14) T	DINOSEB	11.195	11.110	3606.9E6	1198.6E6	223.327	201.128
15) T	Picloram	11.011	12.188	6139.0E6	2015.5E6	202.335	171.699
16) T	DCPA	11.491	12.144	6822.9E6	2326.8E6	233.593	196.624

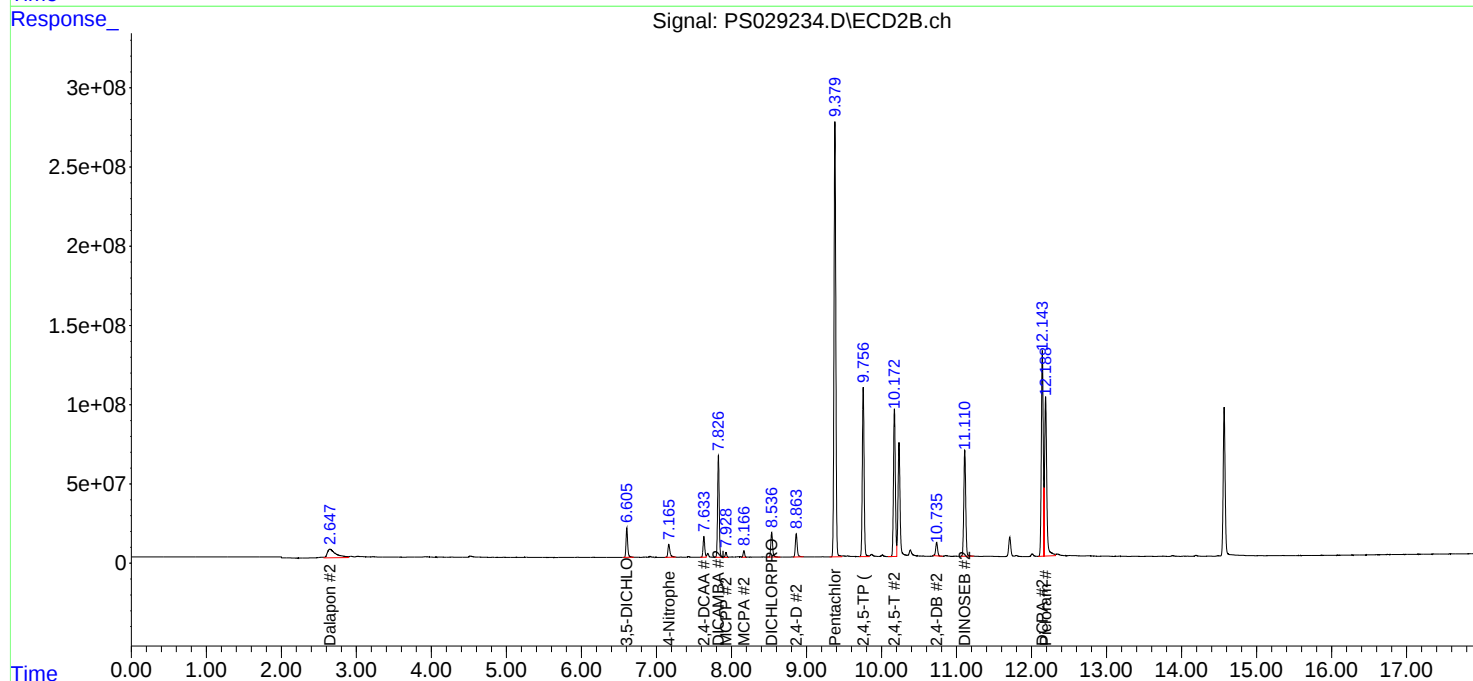
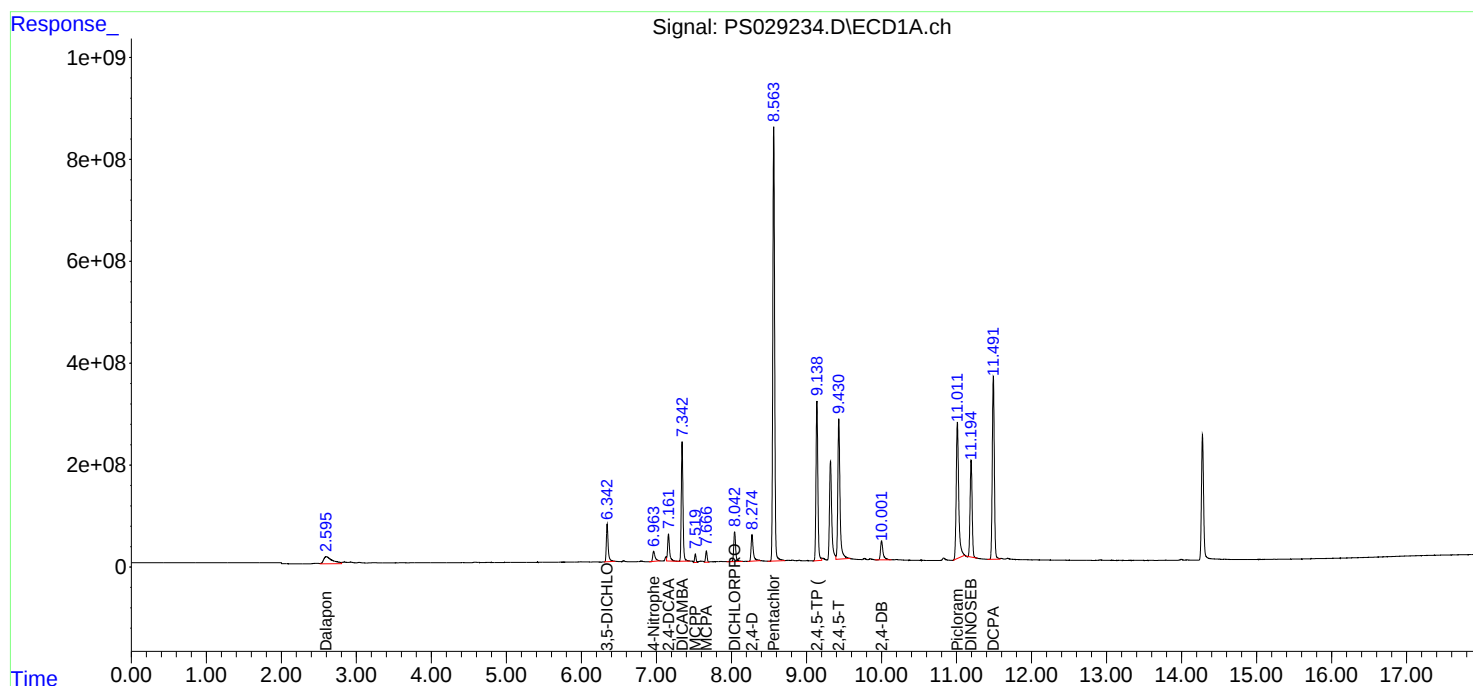
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

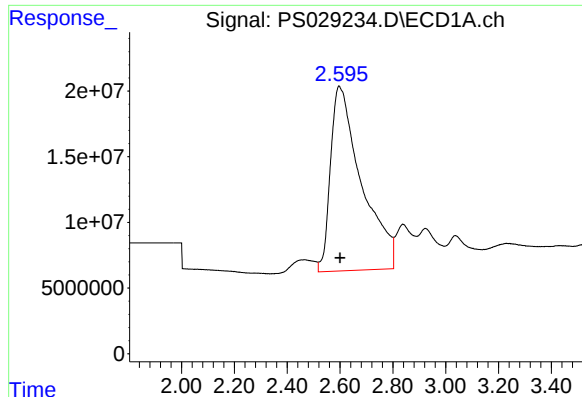
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029234.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 19:56
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:46:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
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

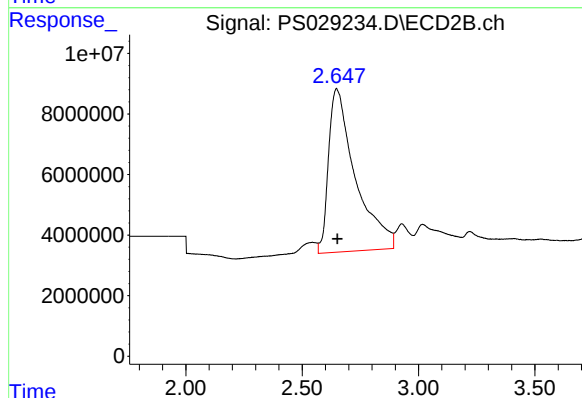




#1 Dalapon

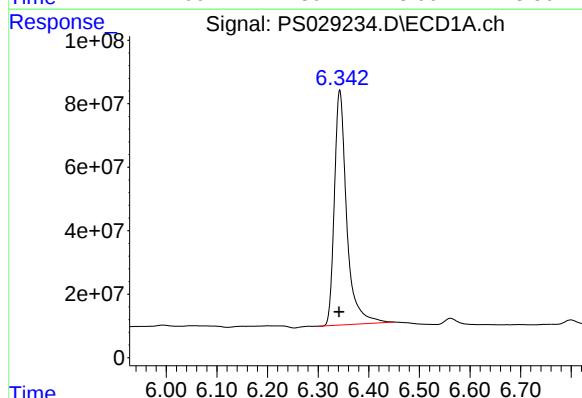
R.T.: 2.596 min
Delta R.T.: -0.004 min
Response: 1142001055
Conc: 214.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



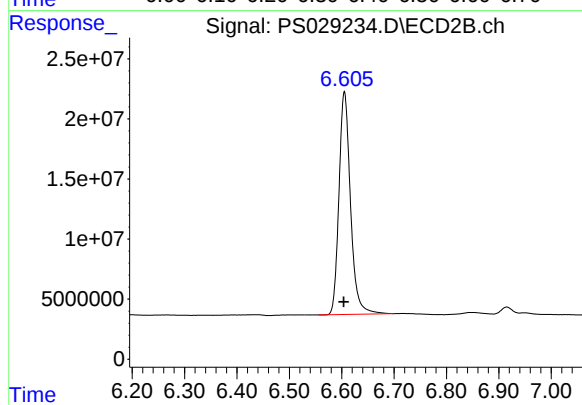
#1 Dalapon

R.T.: 2.647 min
Delta R.T.: -0.004 min
Response: 433071514
Conc: 210.71 ng/ml



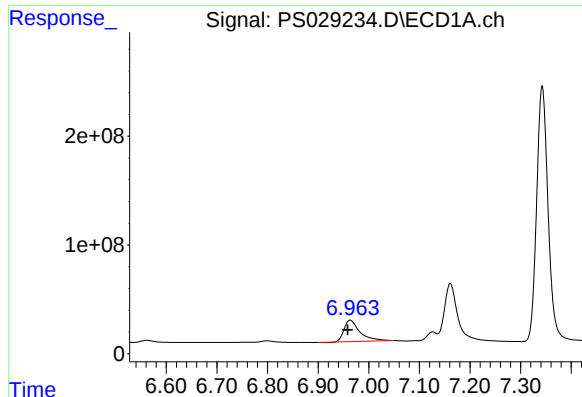
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.343 min
Delta R.T.: 0.001 min
Response: 1251982694
Conc: 220.48 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

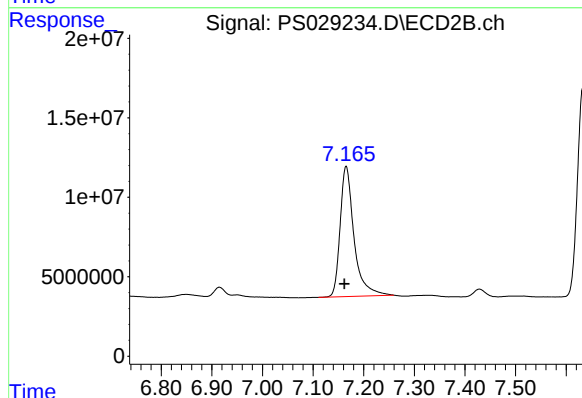
R.T.: 6.605 min
Delta R.T.: 0.001 min
Response: 283333012
Conc: 204.40 ng/ml



#3 4-Nitrophenol

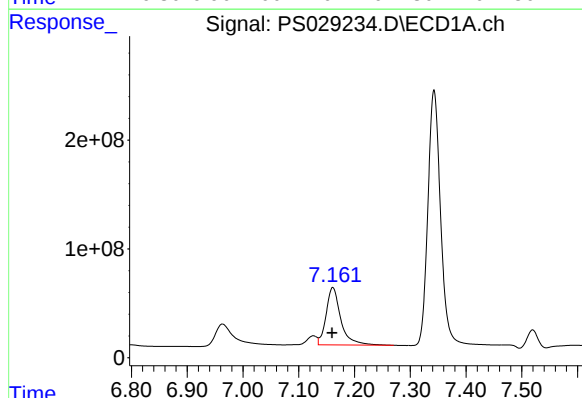
R.T.: 6.963 min
Delta R.T.: 0.005 min
Response: 432821873
Conc: 186.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



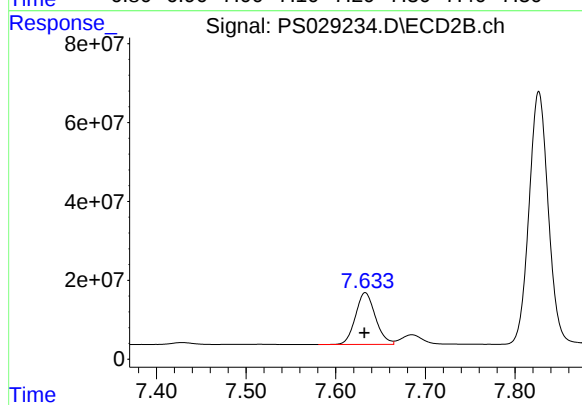
#3 4-Nitrophenol

R.T.: 7.165 min
Delta R.T.: 0.003 min
Response: 156332495
Conc: 200.82 ng/ml



#4 2,4-DCAA

R.T.: 7.161 min
Delta R.T.: 0.001 min
Response: 966900606
Conc: 244.58 ng/ml

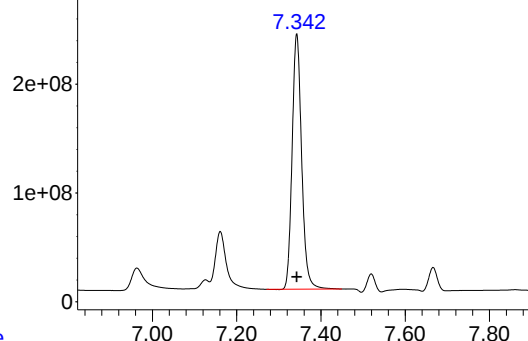


#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 202955943
Conc: 221.10 ng/ml

Response_ Signal: PS029234.D\ECD1A.ch

#5 DICAMBA

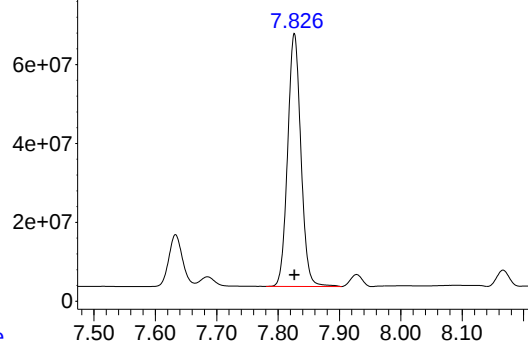


R.T.: 7.343 min
Delta R.T.: 0.000 min
Response: 3685113499
Conc: 217.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Time Response_ Signal: PS029234.D\ECD2B.ch

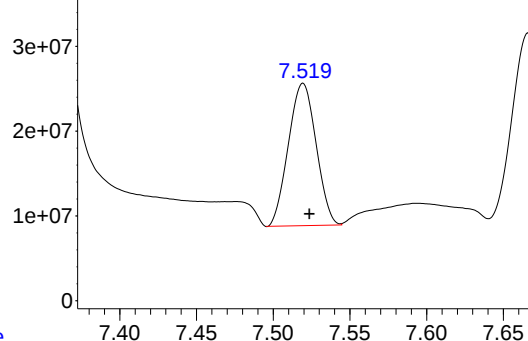
#5 DICAMBA



R.T.: 7.827 min
Delta R.T.: 0.000 min
Response: 960658649
Conc: 187.45 ng/ml

Time Response_ Signal: PS029234.D\ECD1A.ch

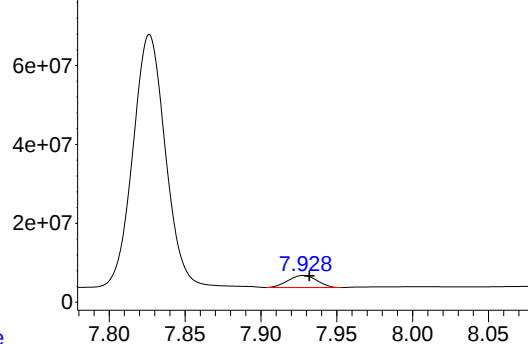
#6 MCP



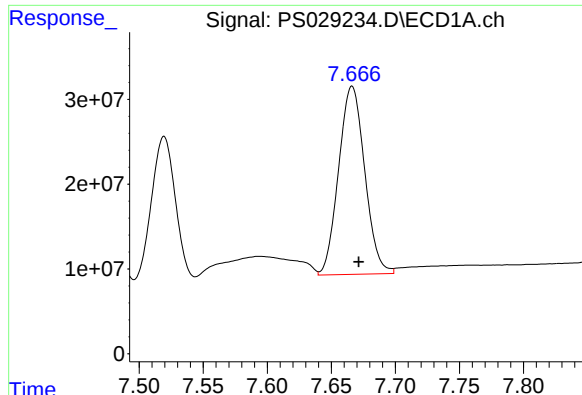
R.T.: 7.519 min
Delta R.T.: -0.004 min
Response: 211814037
Conc: 17.09 ug/ml

Time Response_ Signal: PS029234.D\ECD2B.ch

#6 MCP



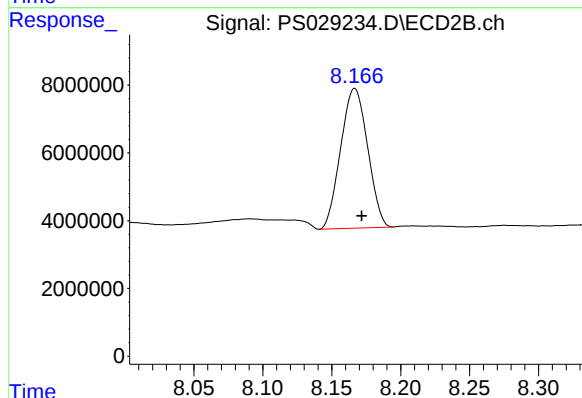
R.T.: 7.928 min
Delta R.T.: -0.004 min
Response: 40449994
Conc: 17.19 ug/ml



#7 MCPA

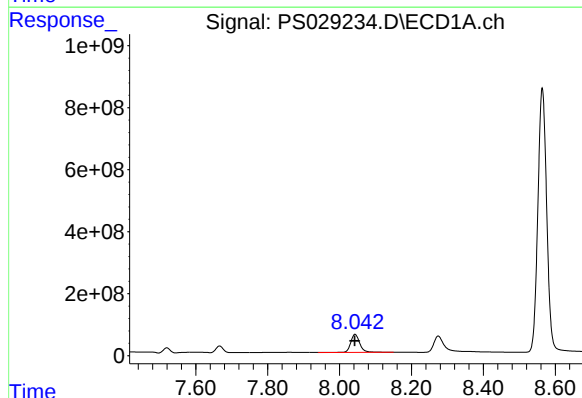
R.T.: 7.666 min
Delta R.T.: -0.005 min
Response: 314812745
Conc: 18.74 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



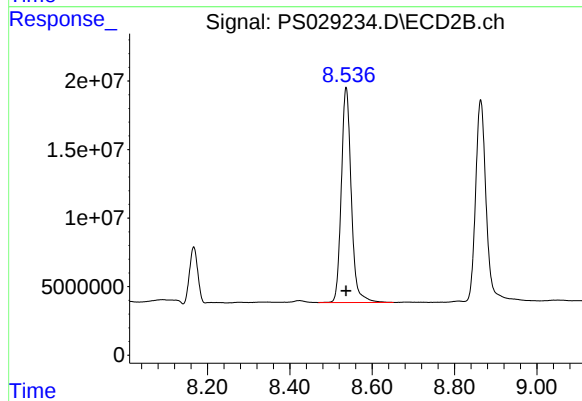
#7 MCPA

R.T.: 8.167 min
Delta R.T.: -0.005 min
Response: 56152825
Conc: 17.63 ug/ml



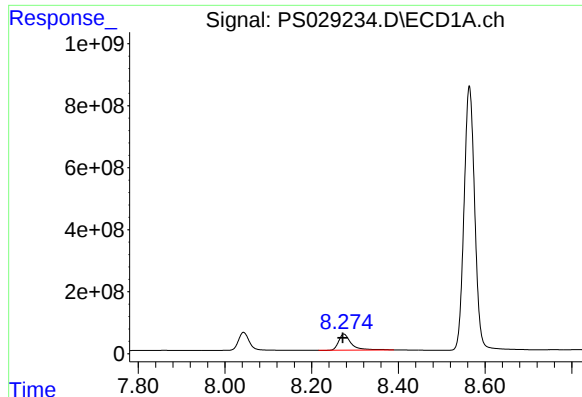
#8 DICHLORPROP

R.T.: 8.043 min
Delta R.T.: 0.001 min
Response: 1036594665
Conc: 236.42 ng/ml



#8 DICHLORPROP

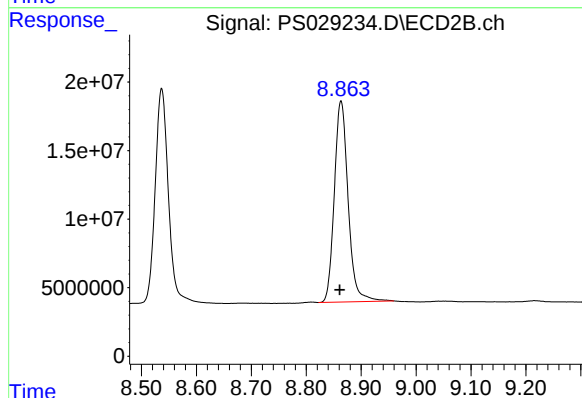
R.T.: 8.537 min
Delta R.T.: 0.000 min
Response: 262899243
Conc: 211.14 ng/ml



#9 2,4-D

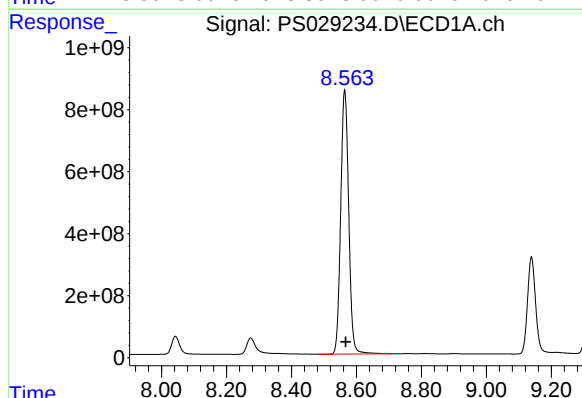
R.T.: 8.274 min
Delta R.T.: 0.003 min
Response: 1048844922
Conc: 229.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



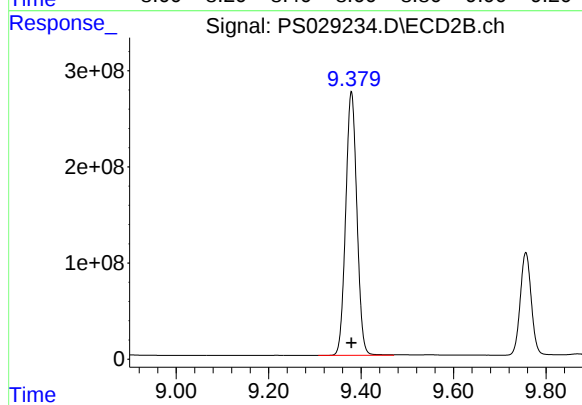
#9 2,4-D

R.T.: 8.863 min
Delta R.T.: 0.002 min
Response: 256243065
Conc: 206.65 ng/ml



#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: -0.003 min
Response: 14573644324
Conc: 245.61 ng/ml



#10 Pentachlorophenol

R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 4615906188
Conc: 201.20 ng/ml

Response_

Signal: PS029234.D\ECD1A.ch

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

R.T.: 9.139 min

Delta R.T.: 0.000 min

Response: 5409038369

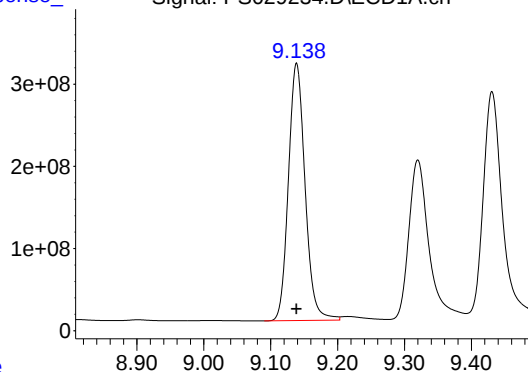
Conc: 225.85 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDICC200



Time

Response_

Signal: PS029234.D\ECD2B.ch

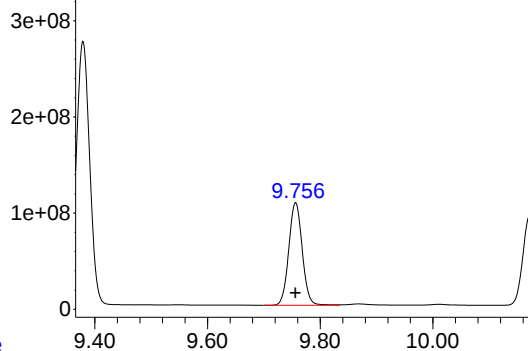
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min

Delta R.T.: 0.000 min

Response: 1766573335

Conc: 196.37 ng/ml



Time

Response_

Signal: PS029234.D\ECD1A.ch

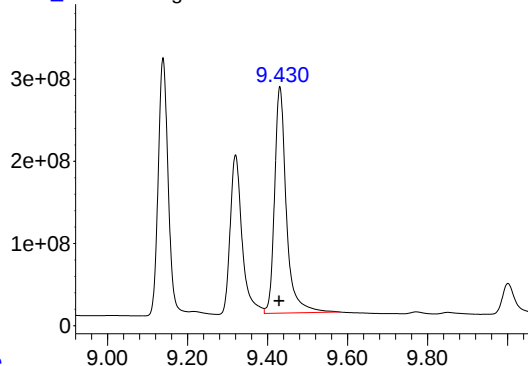
#12 2,4,5-T

R.T.: 9.431 min

Delta R.T.: 0.002 min

Response: 5625357213

Conc: 226.28 ng/ml



Time

Response_

Signal: PS029234.D\ECD2B.ch

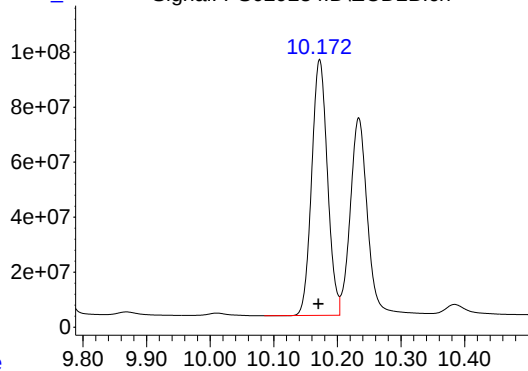
#12 2,4,5-T

R.T.: 10.172 min

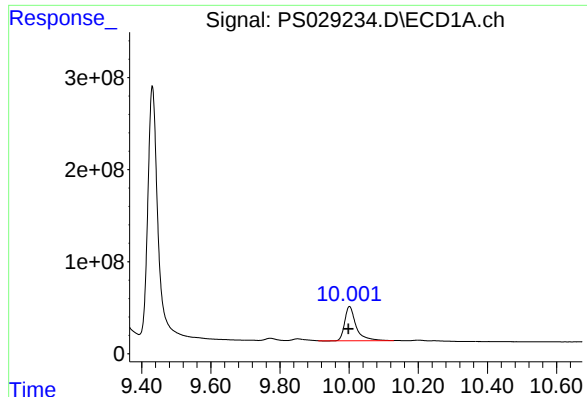
Delta R.T.: 0.002 min

Response: 1601554240

Conc: 196.19 ng/ml



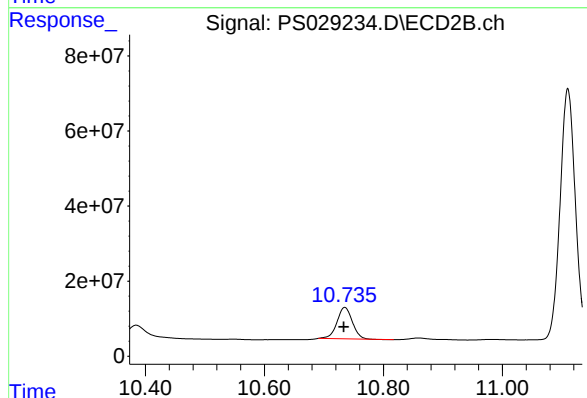
Time



#13 2,4-DB

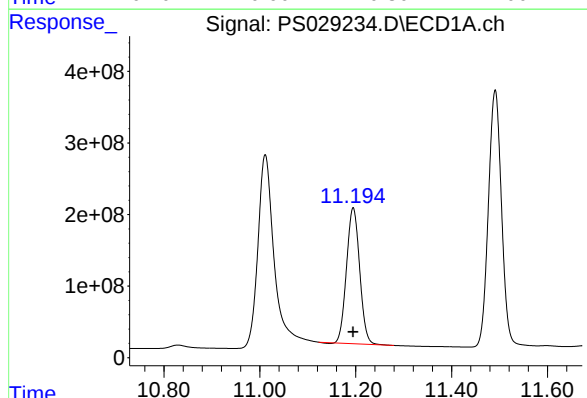
R.T.: 10.001 min
Delta R.T.: 0.003 min
Response: 852856384
Conc: 208.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



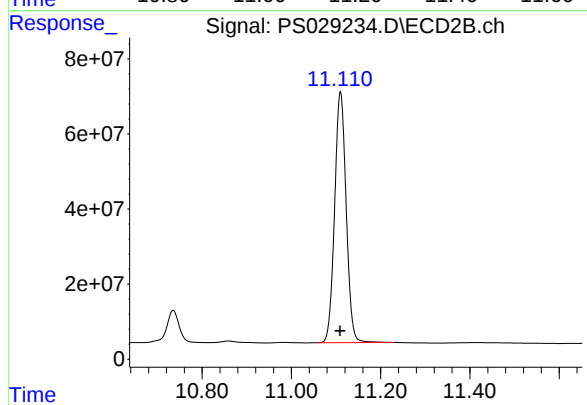
#13 2,4-DB

R.T.: 10.735 min
Delta R.T.: 0.001 min
Response: 150672109
Conc: 200.94 ng/ml



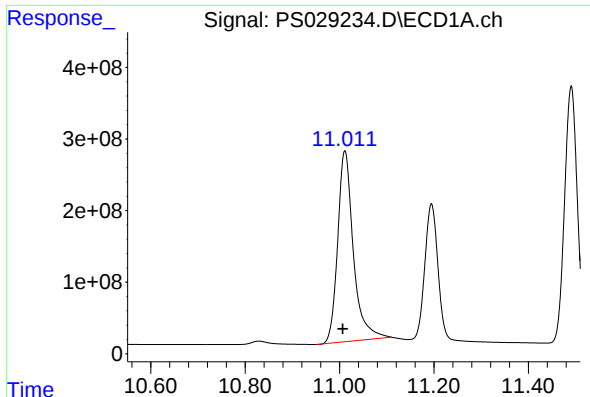
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: 0.000 min
Response: 3606901847
Conc: 223.33 ng/ml



#14 DINOSEB

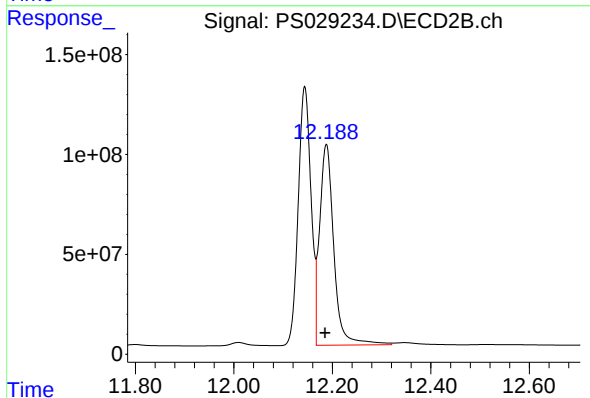
R.T.: 11.110 min
Delta R.T.: 0.000 min
Response: 1198552448
Conc: 201.13 ng/ml



#15 Picloram

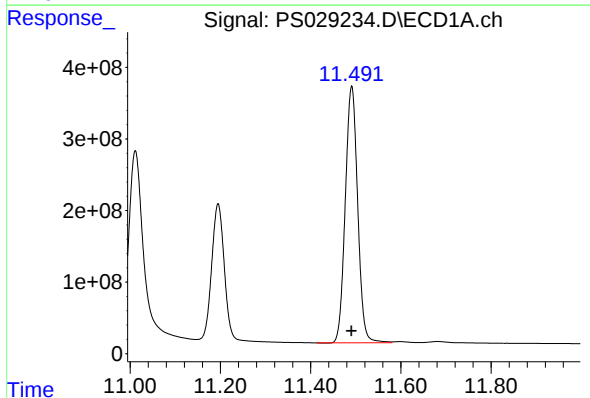
R.T.: 11.011 min
Delta R.T.: 0.005 min
Response: 6139032848
Conc: 202.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



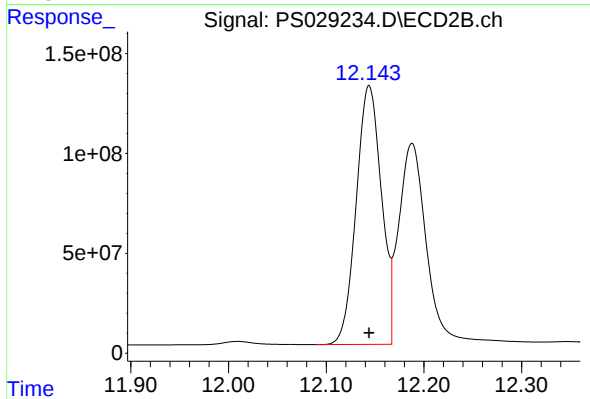
#15 Picloram

R.T.: 12.188 min
Delta R.T.: 0.003 min
Response: 2015527451
Conc: 171.70 ng/ml



#16 DCPA

R.T.: 11.491 min
Delta R.T.: 0.000 min
Response: 6822921971
Conc: 233.59 ng/ml



#16 DCPA

R.T.: 12.144 min
Delta R.T.: 0.000 min
Response: 2326789068
Conc: 196.62 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029235.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 20:20
 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: Feb 22 00:46:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 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	7.159	7.632	2087.7E6	467.4E6	528.092	509.143
Target Compounds							
1) T	Dalapon	2.600	2.647	2511.9E6	954.7E6	470.830	464.533
2) T	3,5-DICHL...	6.341	6.604	2763.0E6	657.1E6	486.564	474.062
3) T	4-Nitroph...	6.959	7.162	1060.1E6	360.9E6	456.796	463.544
5) T	DICAMBA	7.342	7.826	8312.3E6	2386.5E6	490.391	465.655
6) T	MCPD	7.521	7.930	561.5E6	108.2E6	45.295	45.999
7) T	MCPA	7.669	8.169	771.2E6	147.5E6	45.913	46.301
8) T	DICHLORPROP	8.042	8.536	2175.3E6	597.3E6	496.110	479.719
9) T	2,4-D	8.272	8.862	2253.5E6	590.8E6	492.428	476.467
10) T	Pentachlo...	8.564	9.378	31867.7E6	11155.7E6	537.064	486.268
11) T	2,4,5-TP ...	9.138	9.756	12029.9E6	4309.5E6	502.291	479.049
12) T	2,4,5-T	9.429	10.171	12477.7E6	3902.8E6	501.914	478.101
13) T	2,4-DB	9.999	10.734	1985.6E6	358.2E6	485.225	477.677
14) T	DINOSEB	11.194	11.109	8007.8E6	2843.2E6	495.817	477.108
15) T	Picloram	11.007	12.186	14681.6E6	5312.2E6	483.886	452.539
16) T	DCPA	11.489	12.143	14931.6E6	5704.8E6	511.208	482.083

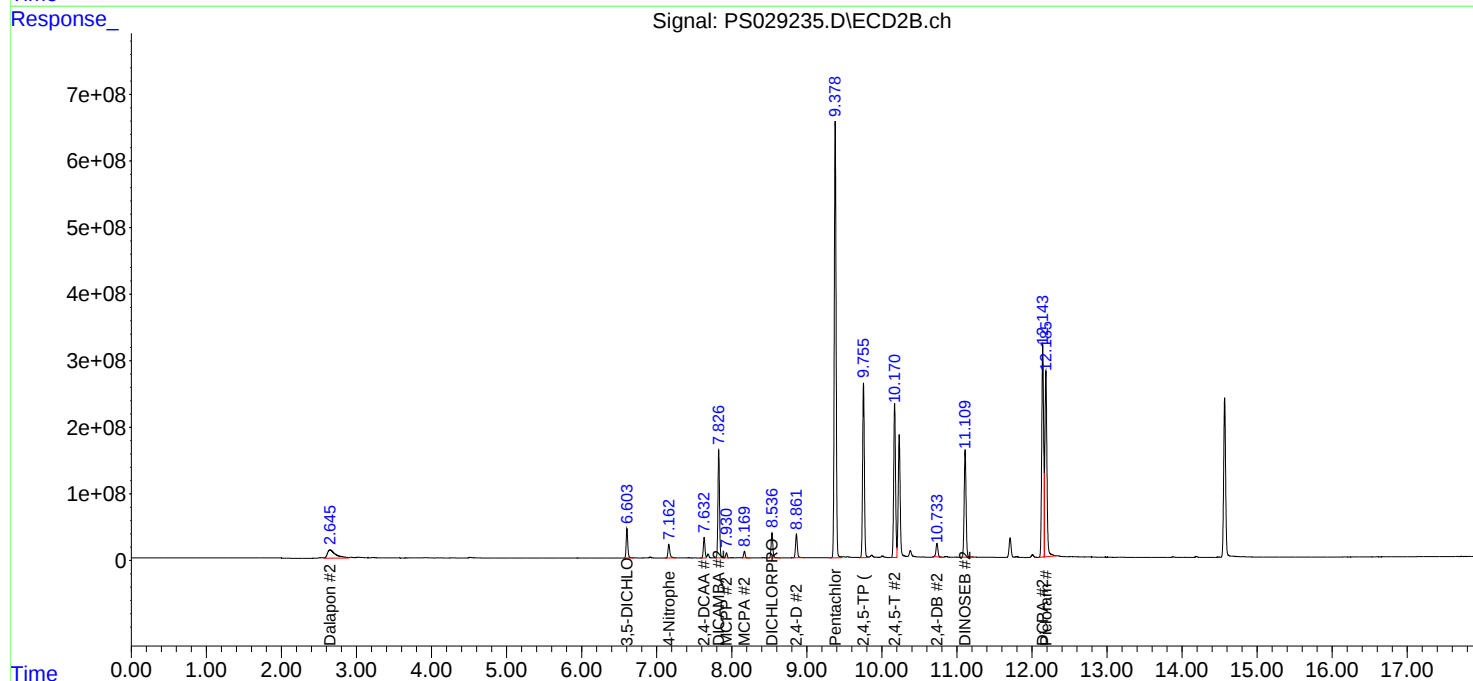
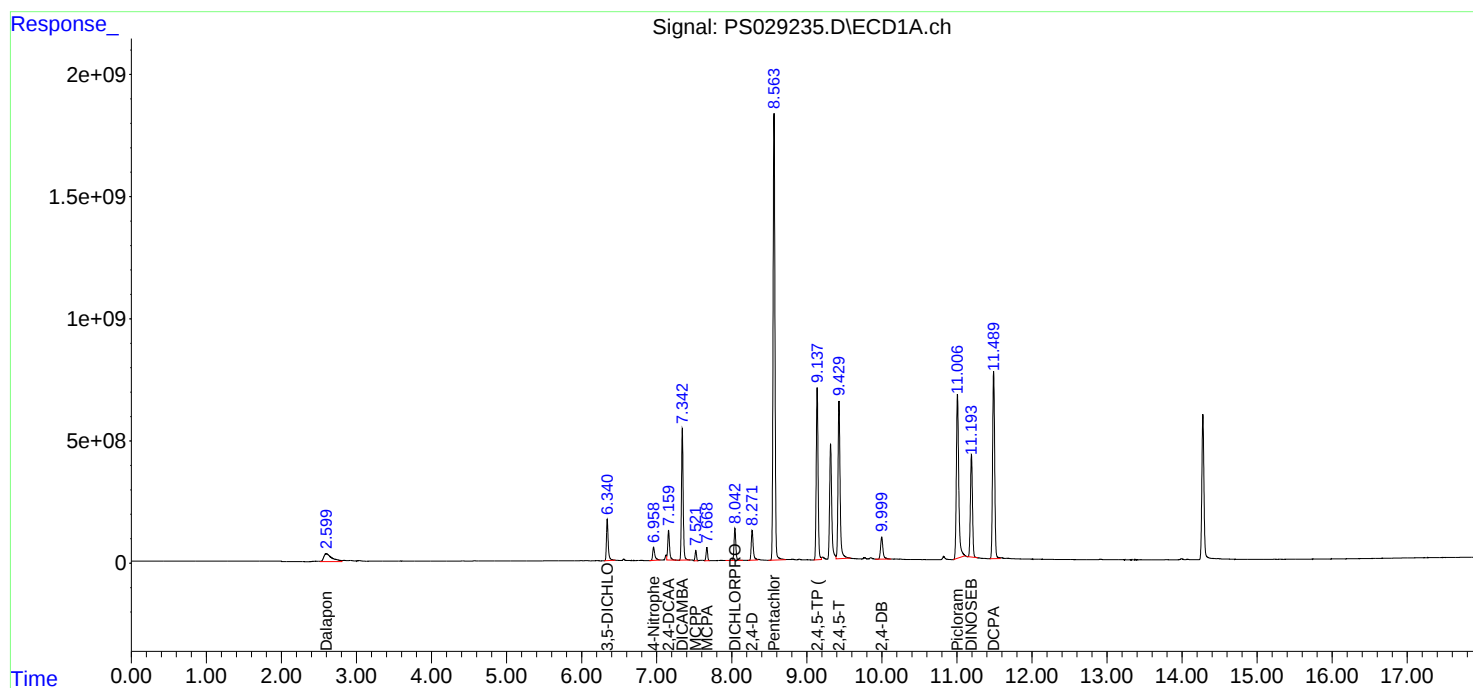
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029235.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 20:20
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

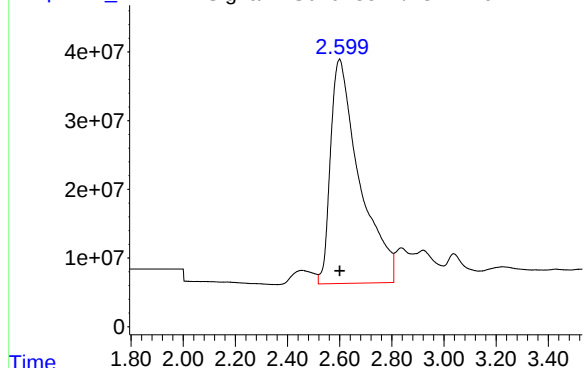
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:46:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
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: PS029235.D\ECD1A.ch

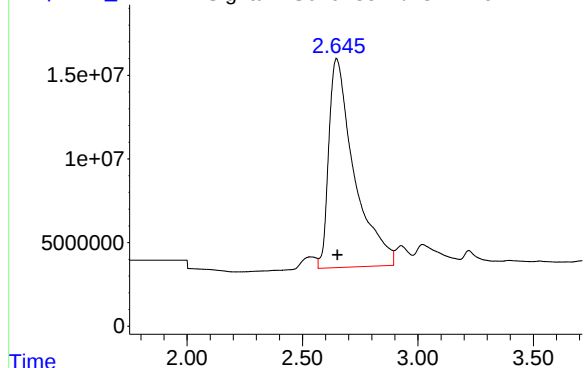


#1 Dalapon

R.T.: 2.600 min
Delta R.T.: 0.000 min
Response: 2511866588
Conc: 470.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

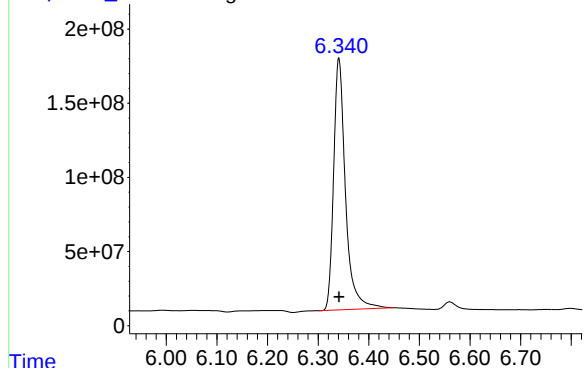
Response_ Signal: PS029235.D\ECD2B.ch



#1 Dalapon

R.T.: 2.647 min
Delta R.T.: -0.004 min
Response: 954749697
Conc: 464.53 ng/ml

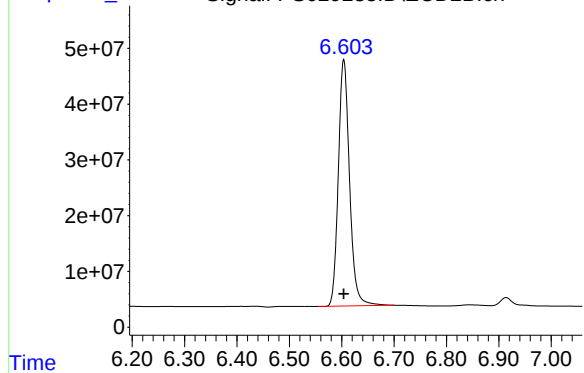
Response_ Signal: PS029235.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

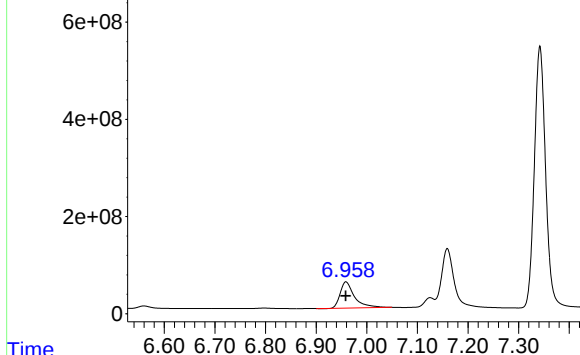
R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 2762985989
Conc: 486.56 ng/ml

Response_ Signal: PS029235.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 657140756
Conc: 474.06 ng/ml



R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 1060081366
Conc: 456.80 ng/ml

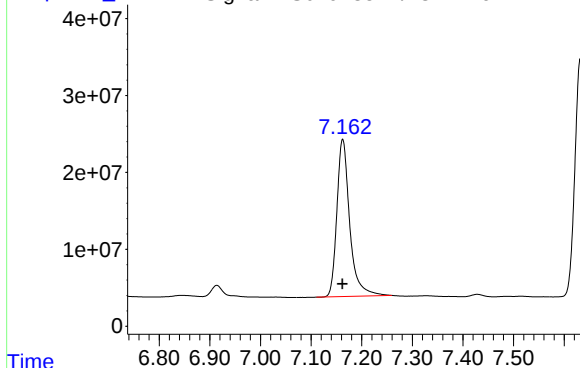
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS029235.D\ECD2B.ch

#3 4-Nitrophenol



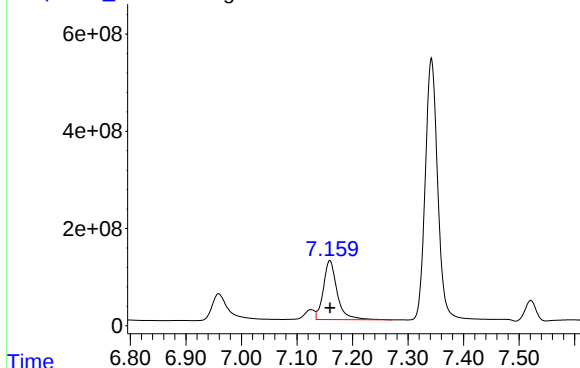
R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 360850578
Conc: 463.54 ng/ml

Time

Response_

Signal: PS029235.D\ECD1A.ch

#4 2,4-DCAA



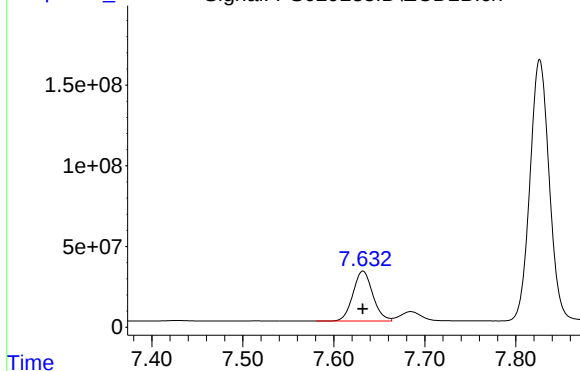
R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 2087670625
Conc: 528.09 ng/ml

Time

Response_

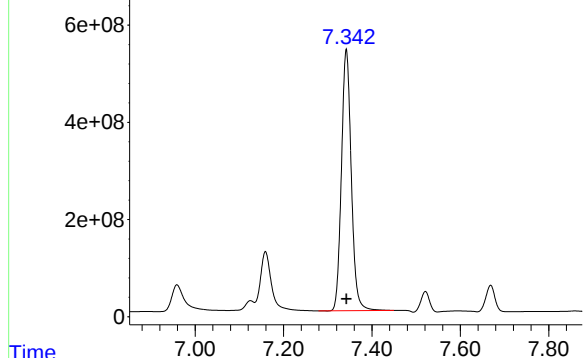
Signal: PS029235.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 467364139
Conc: 509.14 ng/ml

Response_ Signal: PS029235.D\ECD1A.ch

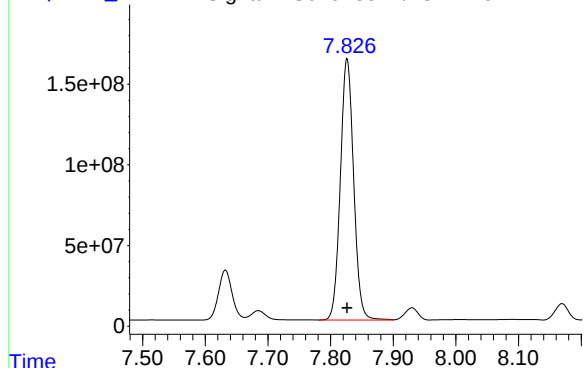


#5 DICAMBA

R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 8312333751
Conc: 490.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

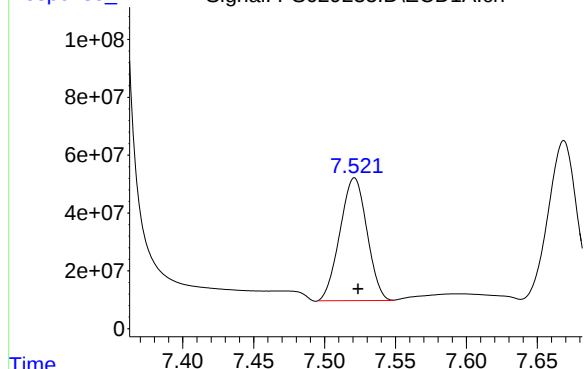
Time Response_ Signal: PS029235.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 2386474119
Conc: 465.66 ng/ml

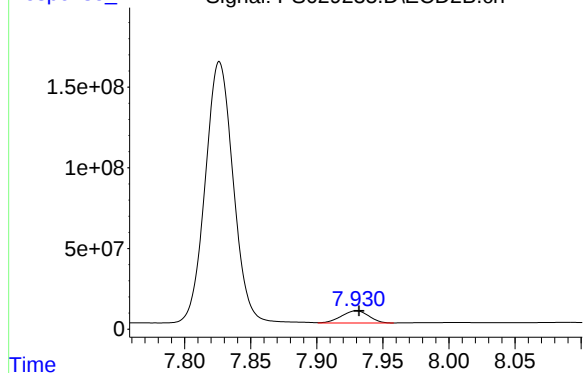
Time Response_ Signal: PS029235.D\ECD1A.ch



#6 MCPP

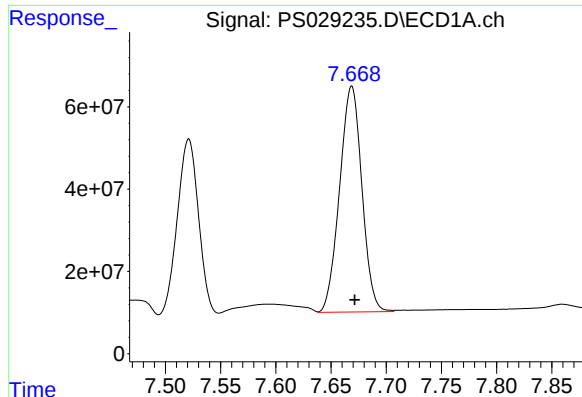
R.T.: 7.521 min
Delta R.T.: -0.002 min
Response: 561484942
Conc: 45.29 ug/ml

Time Response_ Signal: PS029235.D\ECD2B.ch



#6 MCPP

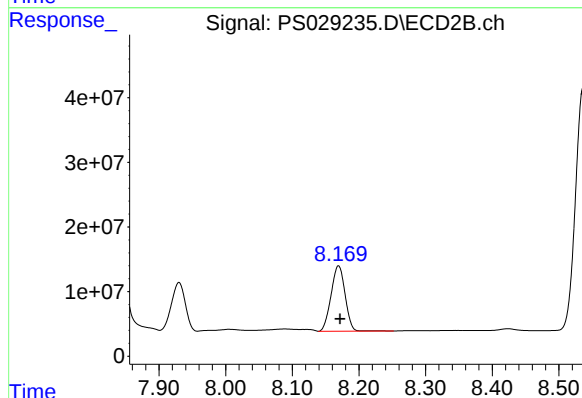
R.T.: 7.930 min
Delta R.T.: -0.002 min
Response: 108219654
Conc: 46.00 ug/ml



#7 MCPA

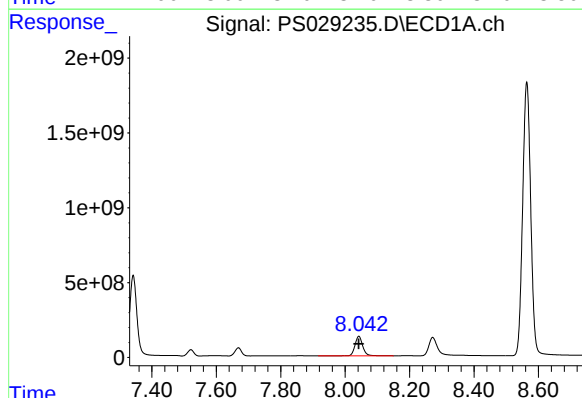
R.T.: 7.669 min
Delta R.T.: -0.003 min
Response: 771153325
Conc: 45.91 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



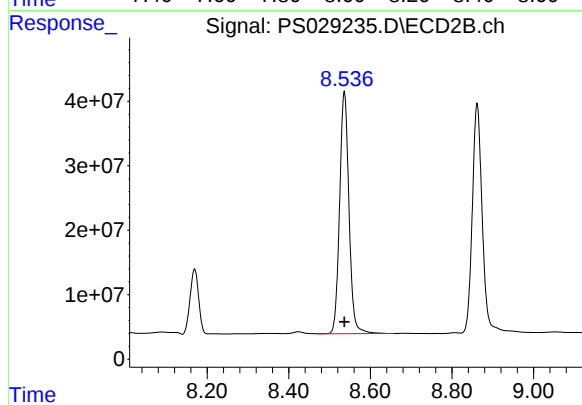
#7 MCPA

R.T.: 8.169 min
Delta R.T.: -0.002 min
Response: 147495437
Conc: 46.30 ug/ml



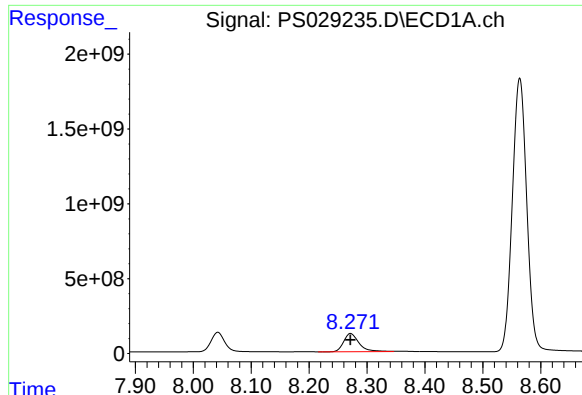
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 2175259216
Conc: 496.11 ng/ml



#8 DICHLORPROP

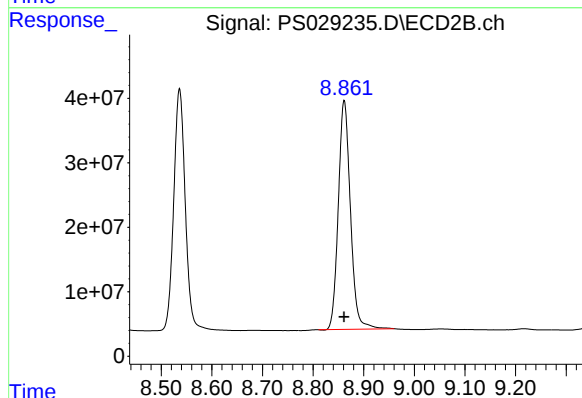
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 597316012
Conc: 479.72 ng/ml



#9 2,4-D

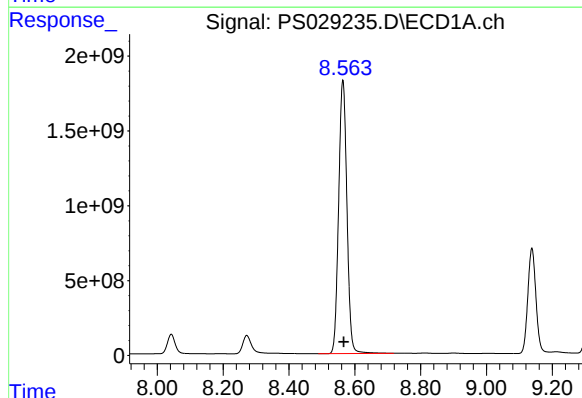
R.T.: 8.272 min
Delta R.T.: 0.000 min
Response: 2253497593
Conc: 492.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



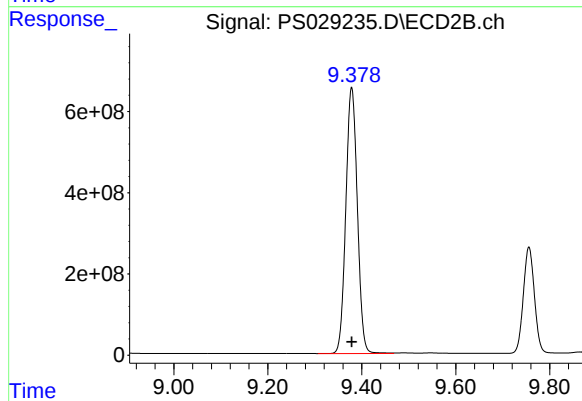
#9 2,4-D

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 590800410
Conc: 476.47 ng/ml



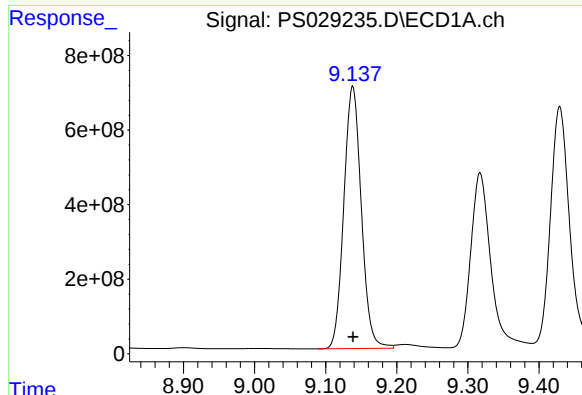
#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: -0.003 min
Response: 31867668673
Conc: 537.06 ng/ml



#10 Pentachlorophenol

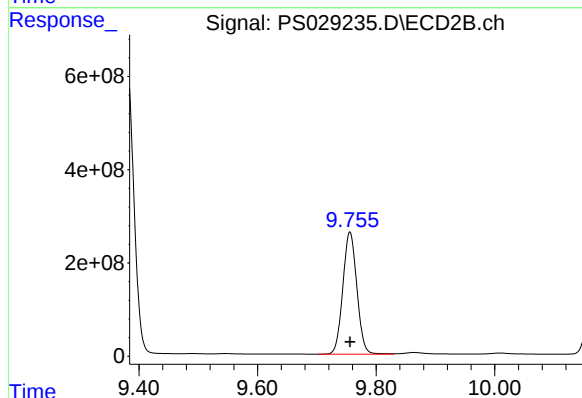
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 11155665141
Conc: 486.27 ng/ml



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

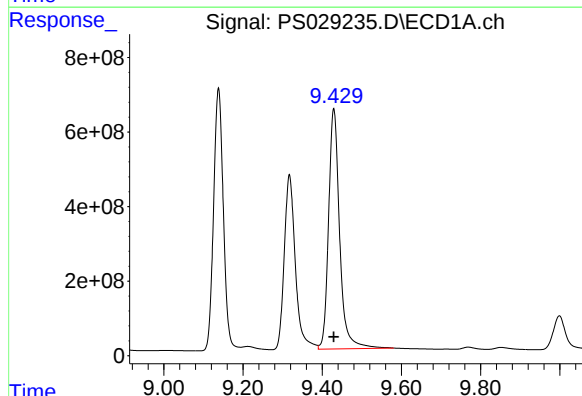
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 12029867304
Conc: 502.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



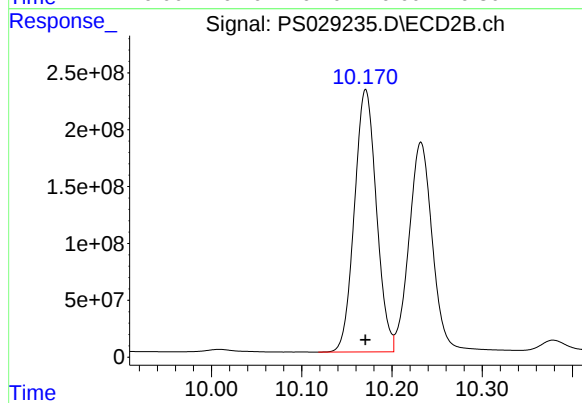
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 4309546815
Conc: 479.05 ng/ml



#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 12477730869
Conc: 501.91 ng/ml

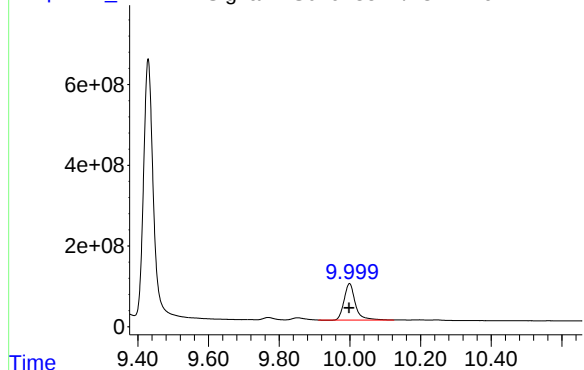


#12 2,4,5-T

R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 3902820050
Conc: 478.10 ng/ml

Response_ Signal: PS029235.D\ECD1A.ch

#13 2,4-DB

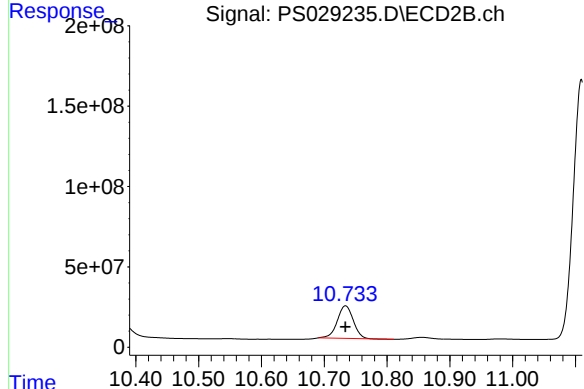


R.T.: 9.999 min
Delta R.T.: 0.000 min
Response: 1985577118
Conc: 485.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time Response_ Signal: PS029235.D\ECD2B.ch

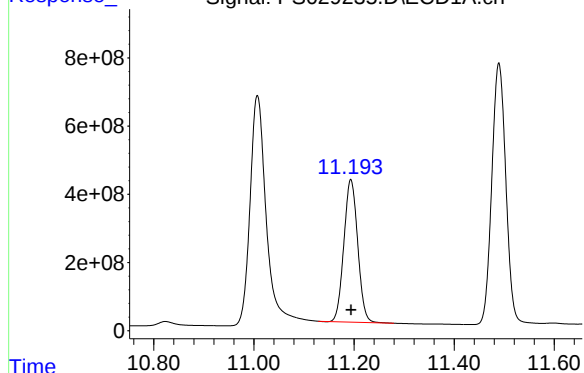
#13 2,4-DB



R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 358174611
Conc: 477.68 ng/ml

Time Response_ Signal: PS029235.D\ECD1A.ch

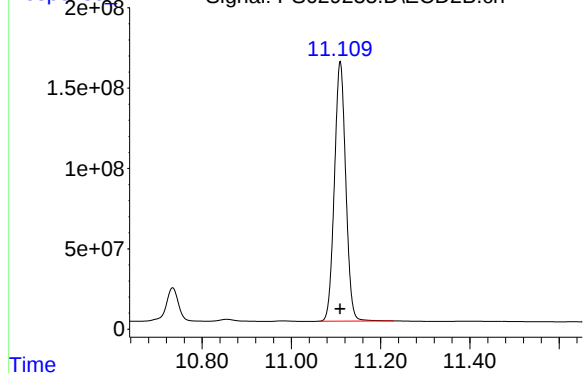
#14 DINOSEB



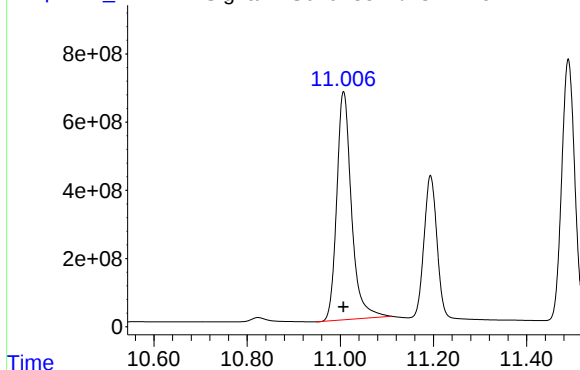
R.T.: 11.194 min
Delta R.T.: 0.000 min
Response: 8007840007
Conc: 495.82 ng/ml

Time Response_ Signal: PS029235.D\ECD2B.ch

#14 DINOSEB



R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 2843163689
Conc: 477.11 ng/ml



R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 14681568645
Conc: 483.89 ng/ml

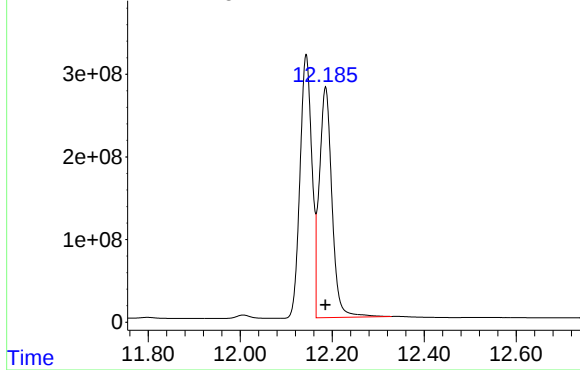
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS029235.D\ECD2B.ch

#15 Picloram



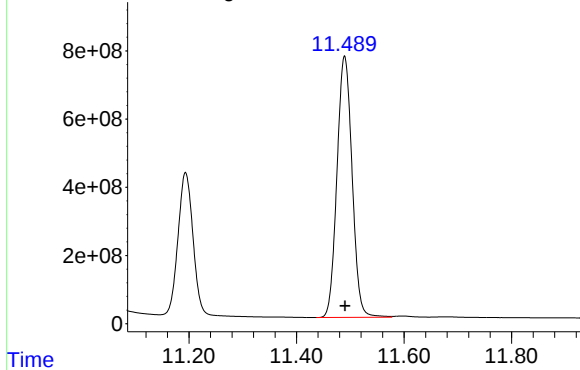
R.T.: 12.186 min
Delta R.T.: 0.000 min
Response: 5312220517
Conc: 452.54 ng/ml

Time

Response_

Signal: PS029235.D\ECD1A.ch

#16 DCPA



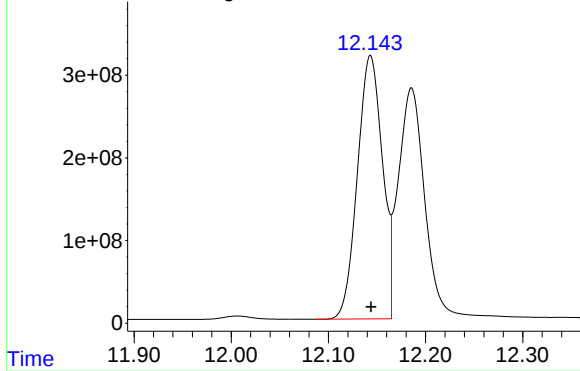
R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 14931643930
Conc: 511.21 ng/ml

Time

Response_

Signal: PS029235.D\ECD2B.ch

#16 DCPA



R.T.: 12.143 min
Delta R.T.: 0.000 min
Response: 5704810376
Conc: 482.08 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029236.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 20:44
 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: Feb 22 00:47:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 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	7.160	7.632	2964.9E6	688.5E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.600	2.651	3641.1E6	1402.7E6	682.500	682.500
2) T	3,5-DICHL...	6.341	6.604	3960.8E6	966.9E6	697.500	697.500
3) T	4-Nitroph...	6.959	7.162	1583.9E6	531.3E6	682.500	682.500
5) T	DICAMBA	7.343	7.826	11950.0E6	3613.1E6	705.000	705.000
6) T	MCPD	7.524	7.932	873.9E6	165.9E6	70.500	70.500
7) T	MCPA	7.671	8.172	1171.5E6	222.2E6	69.750	69.750
8) T	DICHLORPROP	8.042	8.536	3091.2E6	877.8E6	705.000	705.000
9) T	2,4-D	8.271	8.861	3226.3E6	874.2E6	705.000	705.000
10) T	Pentachlo...	8.567	9.379	42277.5E6	16345.7E6	712.500	712.500
11) T	2,4,5-TP ...	9.138	9.756	17064.4E6	6409.7E6	712.500	712.500
12) T	2,4,5-T	9.429	10.170	17713.0E6	5816.3E6	712.500	712.500
13) T	2,4-DB	9.998	10.734	2915.6E6	534.3E6	712.500	712.500
14) T	DINOSEB	11.194	11.109	11386.3E6	4201.2E6	705.000	705.000
15) T	Picloram	11.007	12.185	21617.9E6	8363.8E6	712.500	712.500
16) T	DCPA	11.490	12.144	21030.2E6	8520.2E6	720.000	720.000

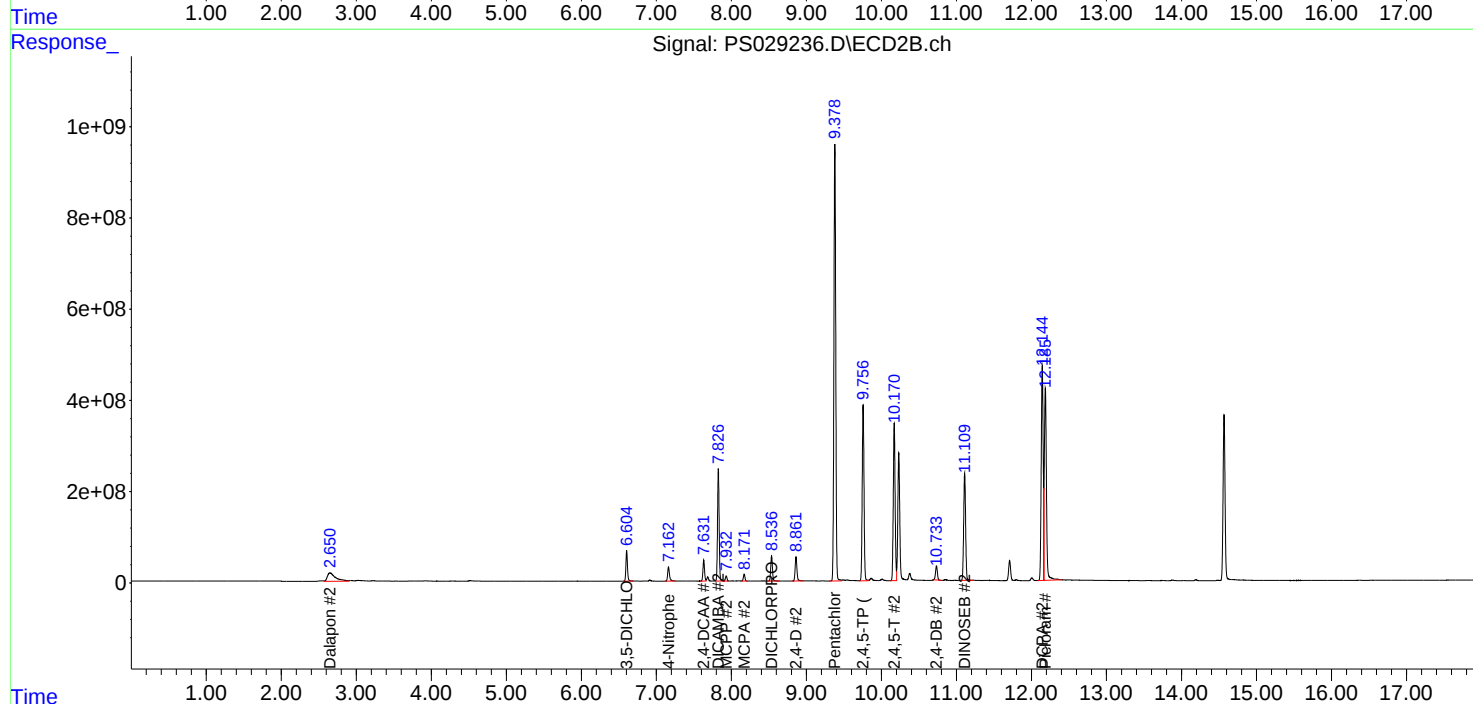
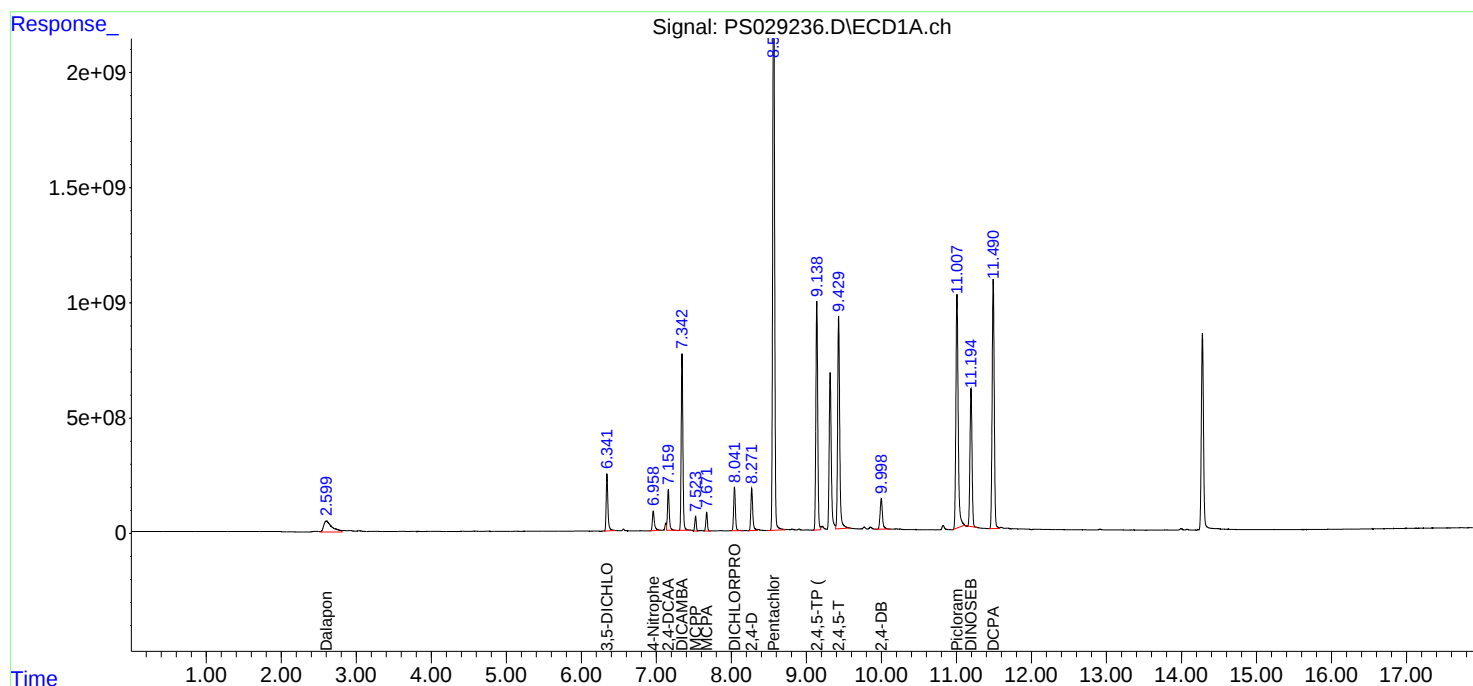
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029236.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 20:44
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

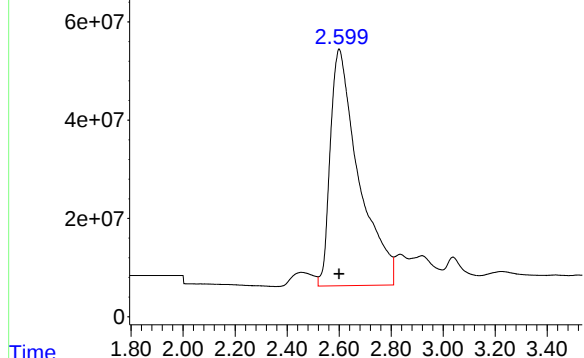
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:47:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
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: PS029236.D\ECD1A.ch

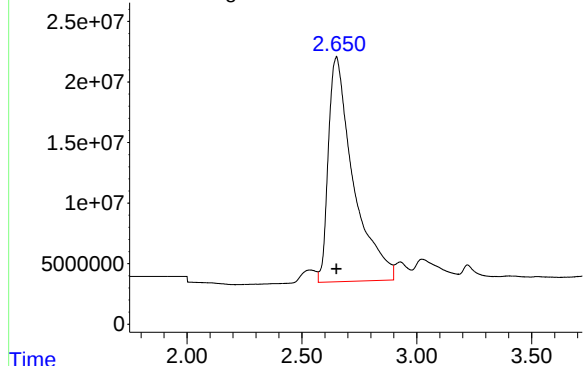


#1 Dalapon

R.T.: 2.600 min
Delta R.T.: 0.000 min
Response: 3641117262
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

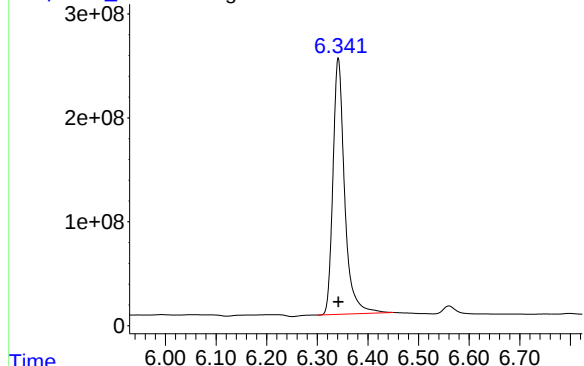
Response_ Signal: PS029236.D\ECD2B.ch



#1 Dalapon

R.T.: 2.651 min
Delta R.T.: 0.000 min
Response: 1402735690
Conc: 682.50 ng/ml

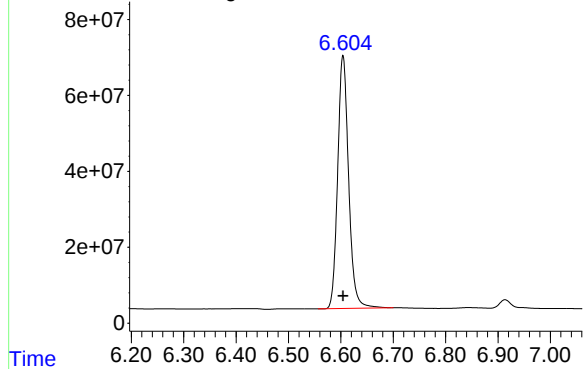
Response_ Signal: PS029236.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

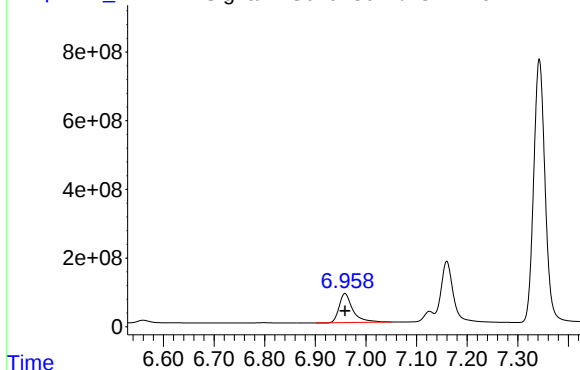
R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 3960801041
Conc: 697.50 ng/ml

Response_ Signal: PS029236.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 966868794
Conc: 697.50 ng/ml



R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 1583871696
Conc: 682.50 ng/ml

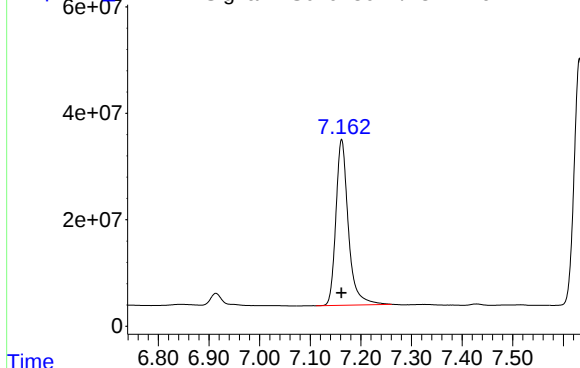
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response

Signal: PS029236.D\ECD2B.ch

#3 4-Nitrophenol



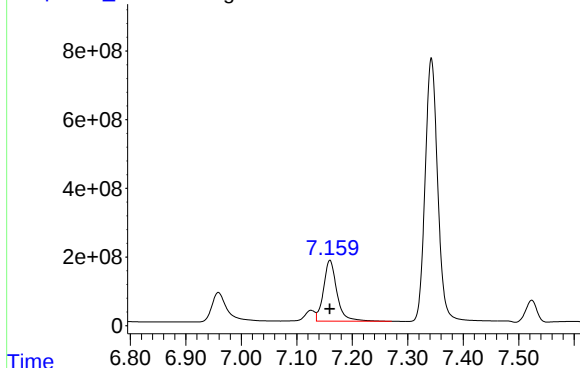
R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 531299680
Conc: 682.50 ng/ml

Time

Response_

Signal: PS029236.D\ECD1A.ch

#4 2,4-DCAA



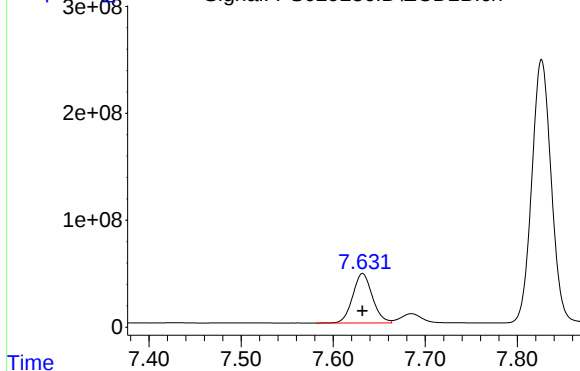
R.T.: 7.160 min
Delta R.T.: 0.000 min
Response: 2964926429
Conc: 750.00 ng/ml

Time

Response

Signal: PS029236.D\ECD2B.ch

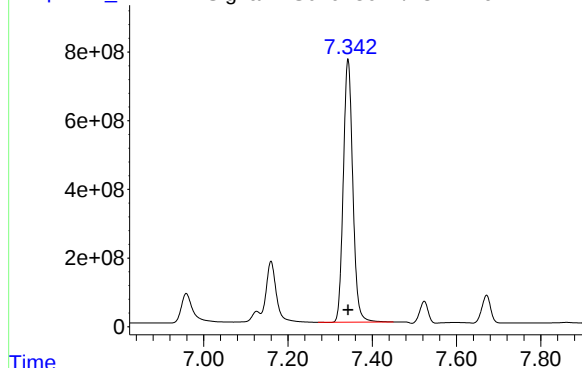
#4 2,4-DCAA



R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 688456770
Conc: 750.00 ng/ml

Time

Response_ Signal: PS029236.D\ECD1A.ch

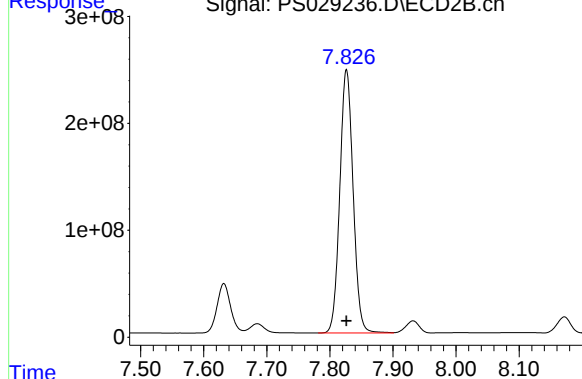


#5 DICAMBA

R.T.: 7.343 min
Delta R.T.: 0.000 min
Response: 11950038937
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

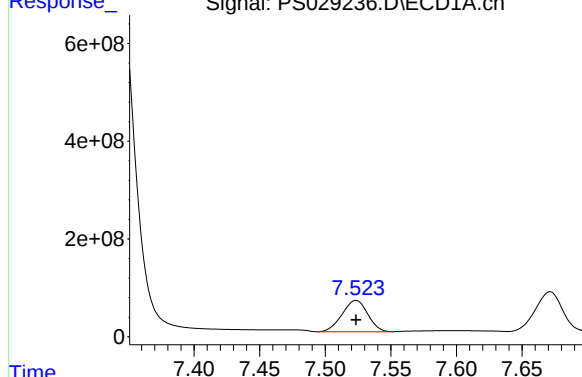
Time Response_ Signal: PS029236.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 3613110016
Conc: 705.00 ng/ml

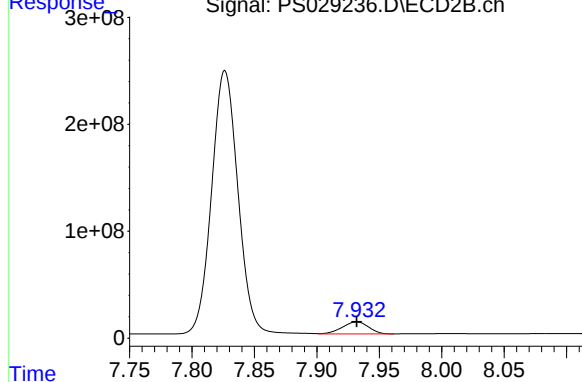
Time Response_ Signal: PS029236.D\ECD1A.ch



#6 MCP

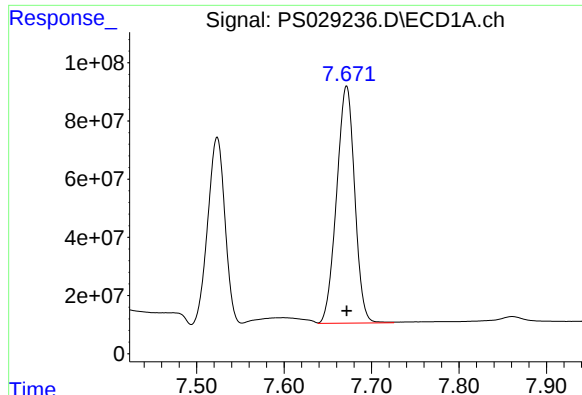
R.T.: 7.524 min
Delta R.T.: 0.000 min
Response: 873935341
Conc: 70.50 ug/ml

Time Response_ Signal: PS029236.D\ECD2B.ch



#6 MCP

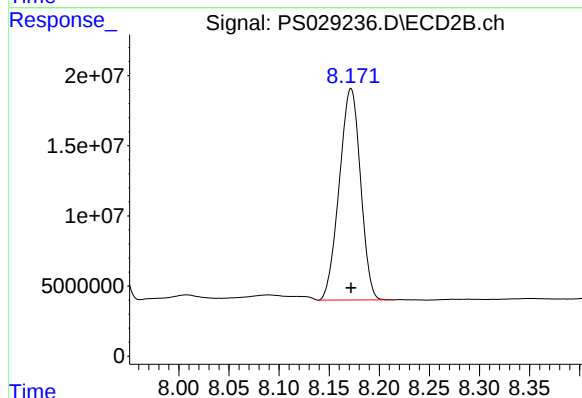
R.T.: 7.932 min
Delta R.T.: 0.000 min
Response: 165863639
Conc: 70.50 ug/ml



#7 MCPA

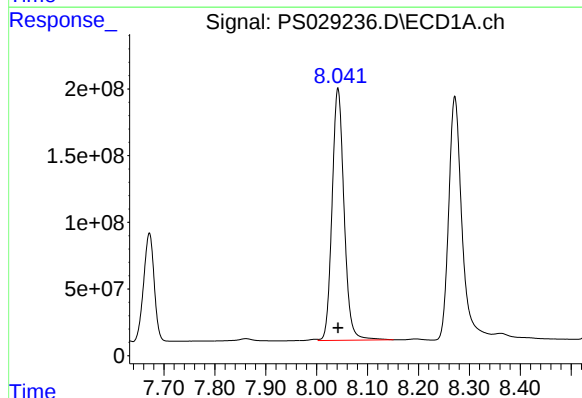
R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 1171508246
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



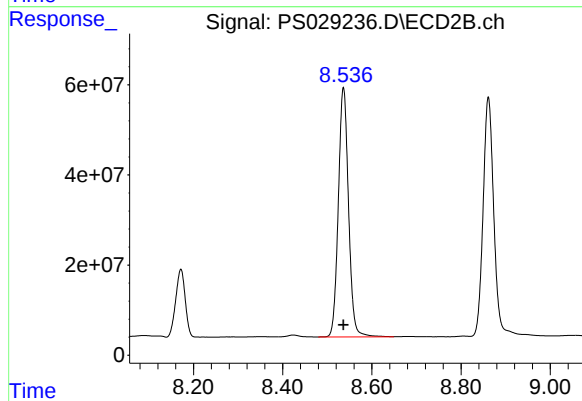
#7 MCPA

R.T.: 8.172 min
Delta R.T.: 0.000 min
Response: 222192083
Conc: 69.75 ug/ml



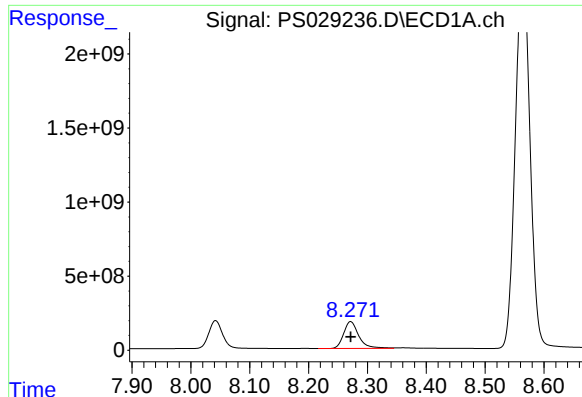
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 3091164412
Conc: 705.00 ng/ml



#8 DICHLORPROP

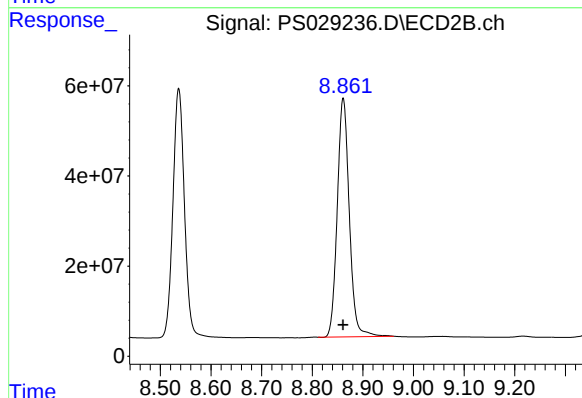
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 877822430
Conc: 705.00 ng/ml



#9 2,4-D

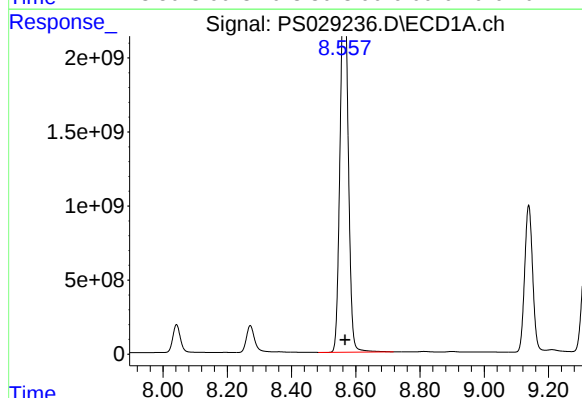
R.T.: 8.271 min
Delta R.T.: 0.000 min
Response: 3226291508
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



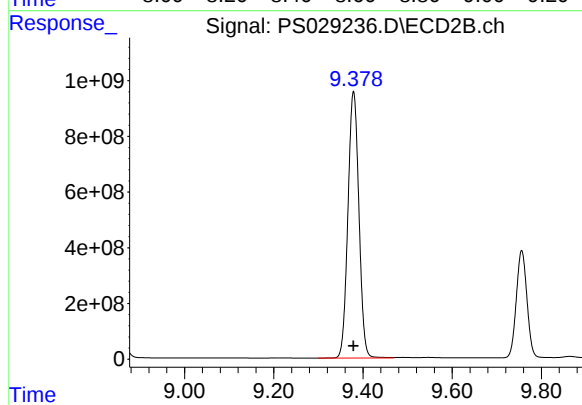
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 874172728
Conc: 705.00 ng/ml



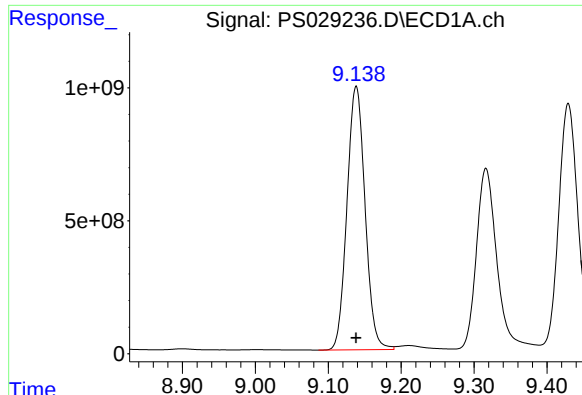
#10 Pentachlorophenol

R.T.: 8.567 min
Delta R.T.: 0.000 min
Response: 42277474725
Conc: 712.50 ng/ml



#10 Pentachlorophenol

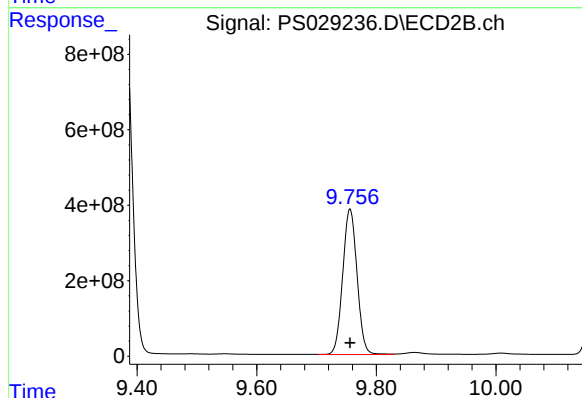
R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 16345726949
Conc: 712.50 ng/ml



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

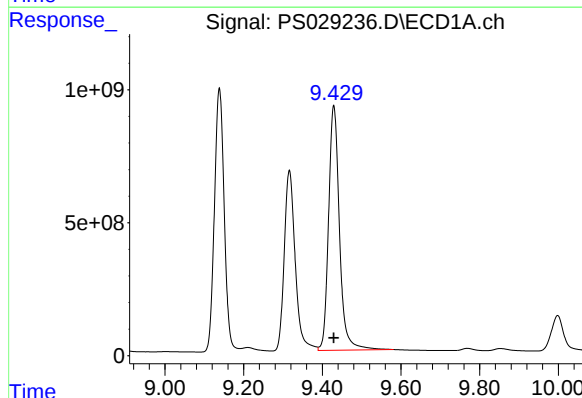
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 17064364398
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



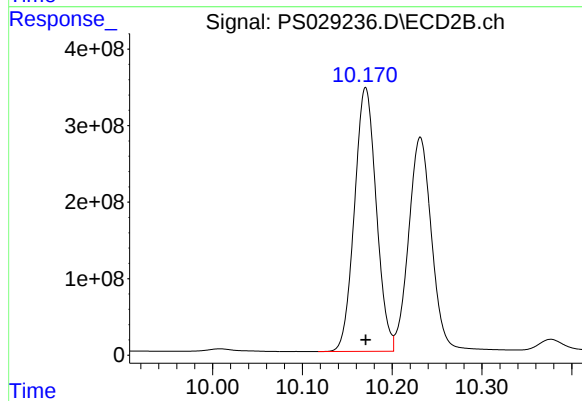
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 6409684995
Conc: 712.50 ng/ml



#12 2,4,5-T

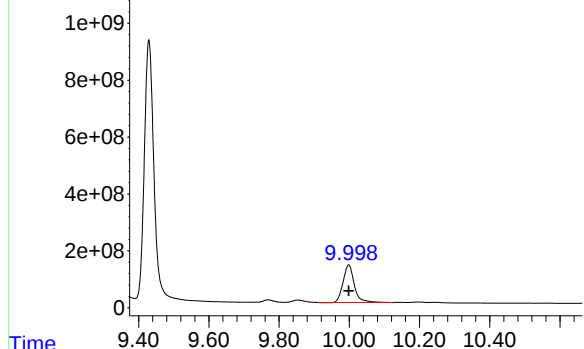
R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 17712956715
Conc: 712.50 ng/ml



#12 2,4,5-T

R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 5816255986
Conc: 712.50 ng/ml

Response_ Signal: PS029236.D\ECD1A.ch

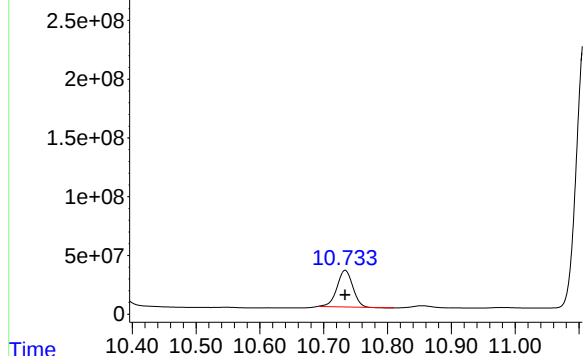


#13 2,4-DB

R.T.: 9.998 min
Delta R.T.: 0.000 min
Response: 2915603199
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

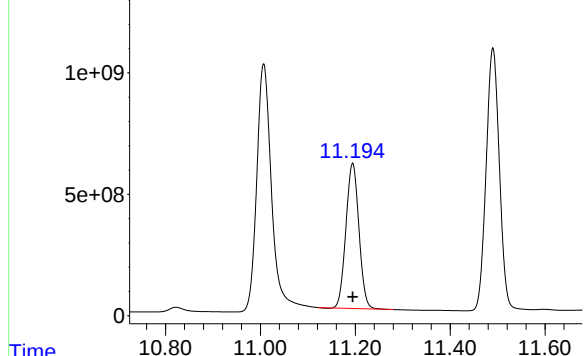
Time Response_ Signal: PS029236.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 534251119
Conc: 712.50 ng/ml

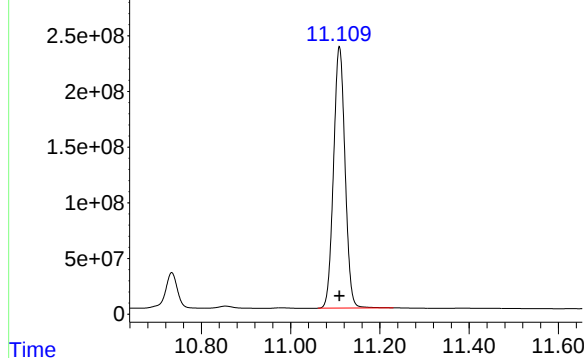
Time Response_ Signal: PS029236.D\ECD1A.ch



#14 DINOSEB

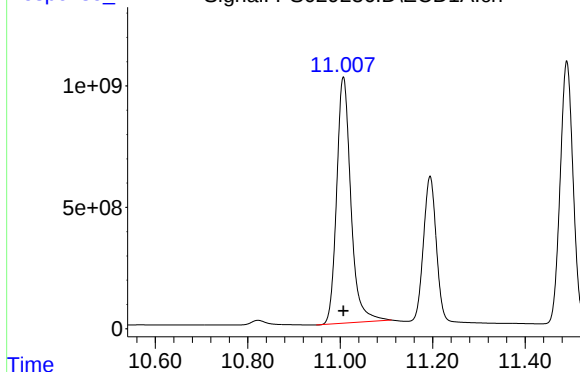
R.T.: 11.194 min
Delta R.T.: 0.000 min
Response: 11386311715
Conc: 705.00 ng/ml

Time Response_ Signal: PS029236.D\ECD2B.ch



#14 DINOSEB

R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 4201208657
Conc: 705.00 ng/ml



R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 21617917308
Conc: 712.50 ng/ml

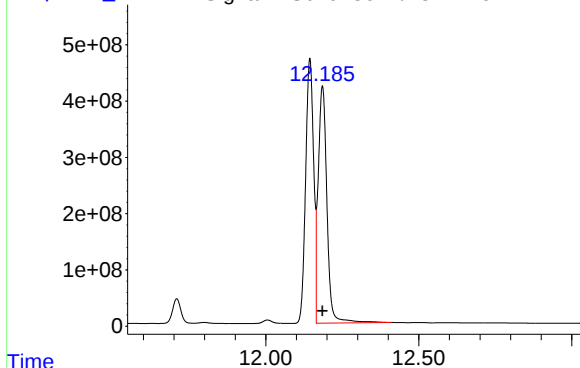
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_

Signal: PS029236.D\ECD2B.ch

#15 Picloram



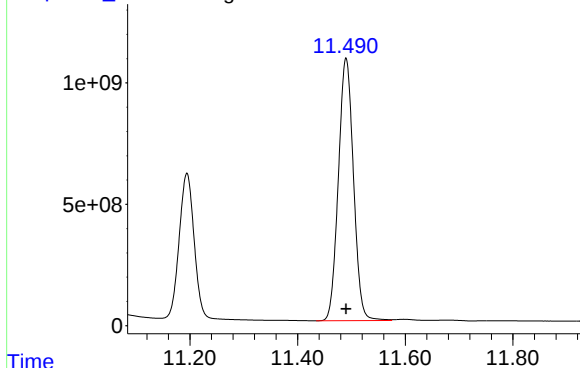
R.T.: 12.185 min
Delta R.T.: 0.000 min
Response: 8363826327
Conc: 712.50 ng/ml

Time

Response_

Signal: PS029236.D\ECD1A.ch

#16 DCPA



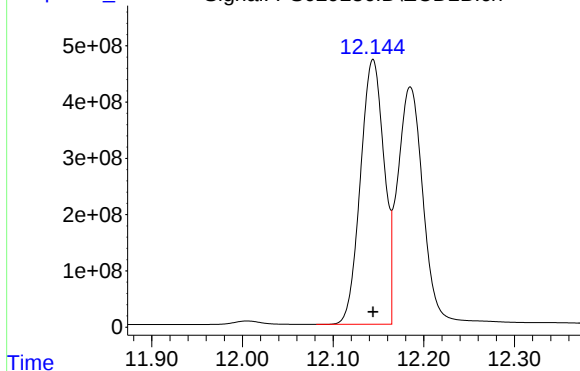
R.T.: 11.490 min
Delta R.T.: 0.000 min
Response: 21030169639
Conc: 720.00 ng/ml

Time

Response_

Signal: PS029236.D\ECD2B.ch

#16 DCPA



R.T.: 12.144 min
Delta R.T.: 0.000 min
Response: 8520243713
Conc: 720.00 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029237.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 21:08
 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: Feb 22 00:47:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 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	7.160	7.632	3904.4E6	923.9E6	987.641	1006.459
Target Compounds							
1) T	Dalapon	2.602	2.649	4808.4E6	1862.5E6	901.290	906.192
2) T	3,5-DICHL...	6.341	6.604	5190.9E6	1296.8E6	914.113	935.505
3) T	4-Nitroph...	6.958	7.162	2125.8E6	711.9E6	916.034	914.527
5) T	DICAMBA	7.343	7.827	15712.3E6	4925.7E6	926.955	961.111
6) T	MCPD	7.525	7.934	1212.8E6	229.1E6	97.837	97.378
7) T	MCPA	7.674	8.174	1599.1E6	305.2E6	95.210	95.798
8) T	DICHLORPROP	8.042	8.536	4060.0E6	1174.5E6	925.954	943.257
9) T	2,4-D	8.271	8.861	4228.8E6	1179.7E6	924.070	951.397
10) T	Pentachlo...	8.569	9.379	47978.9E6	21616.5E6	808.586	942.252
11) T	2,4,5-TP ...	9.138	9.756	22191.6E6	8560.6E6	926.582	951.592
12) T	2,4,5-T	9.429	10.171	22908.3E6	7785.2E6	921.482	953.703
13) T	2,4-DB	9.998	10.734	3903.0E6	722.5E6	953.785	963.503
14) T	DINOSEB	11.194	11.109	14868.4E6	5641.4E6	920.597	946.685
15) T	Picloram	11.007	12.185	28555.1E6	11497.8E6	941.140	979.475
16) T	DCPA	11.490	12.143	27030.8E6	11366.5E6	925.442	960.520

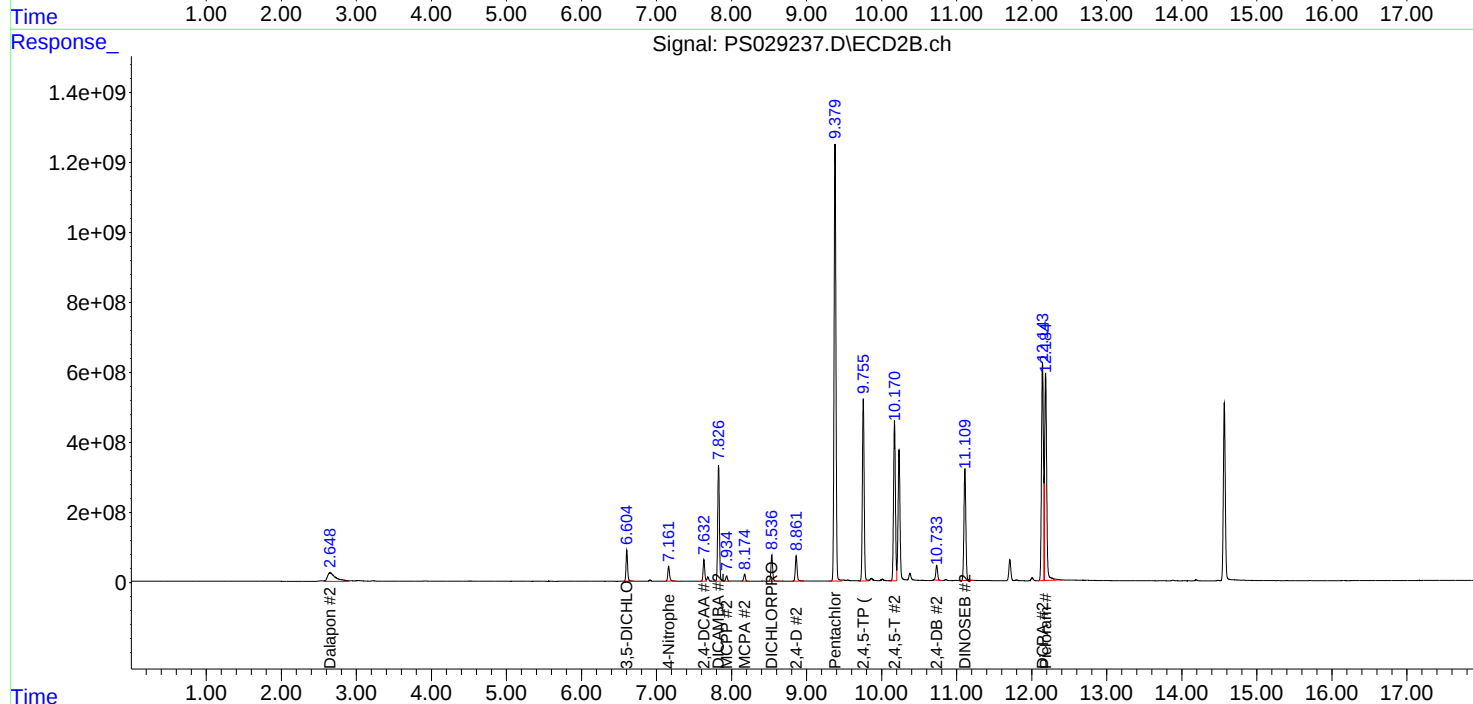
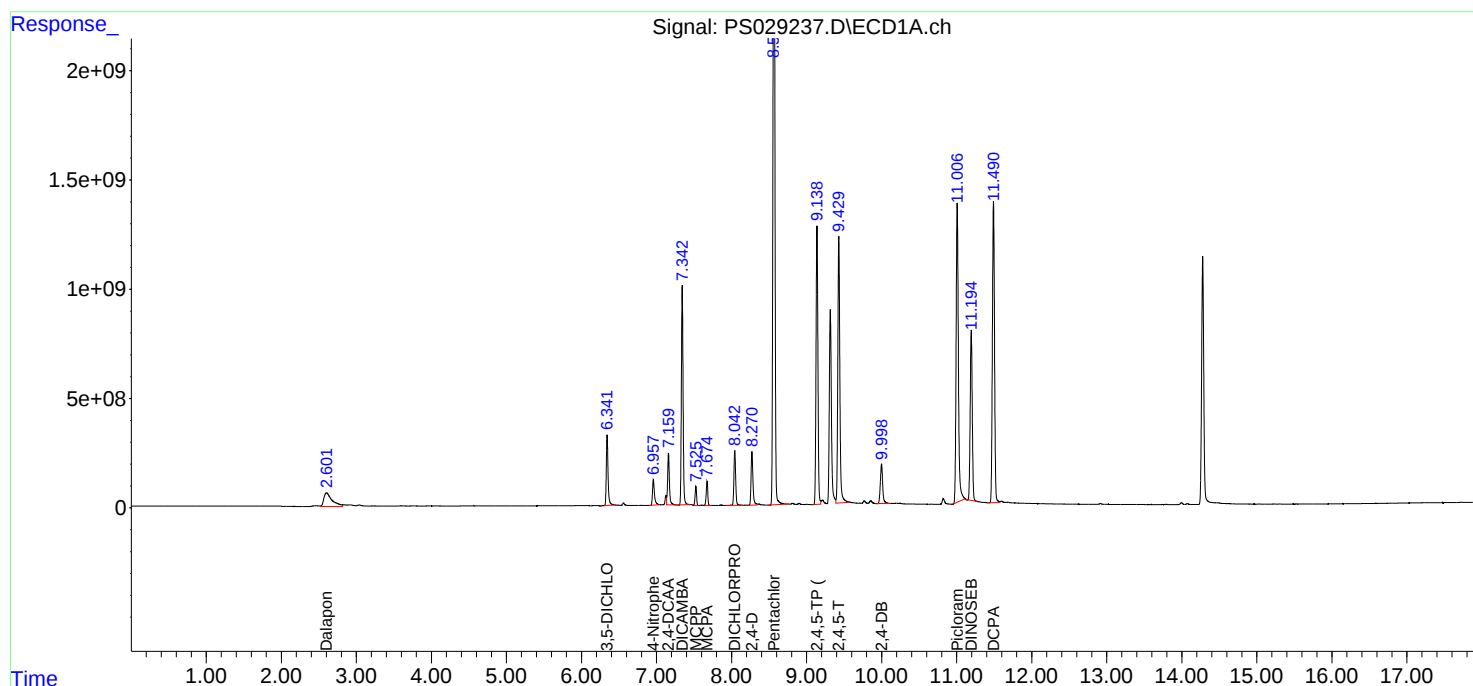
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

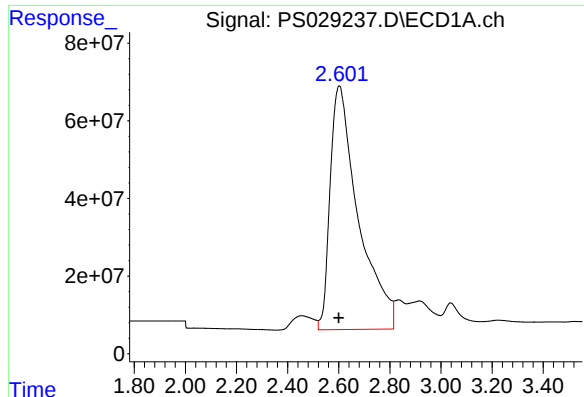
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029237.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 21:08
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:47:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
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

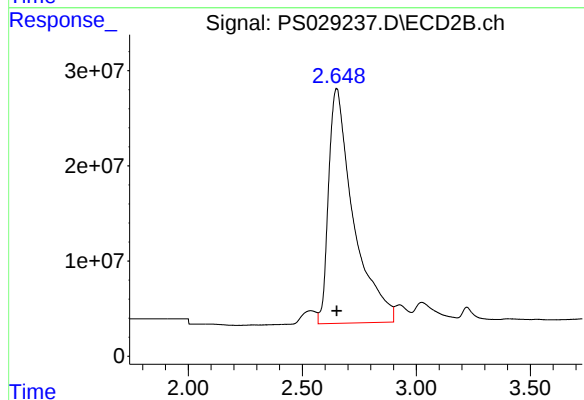




#1 Dalapon

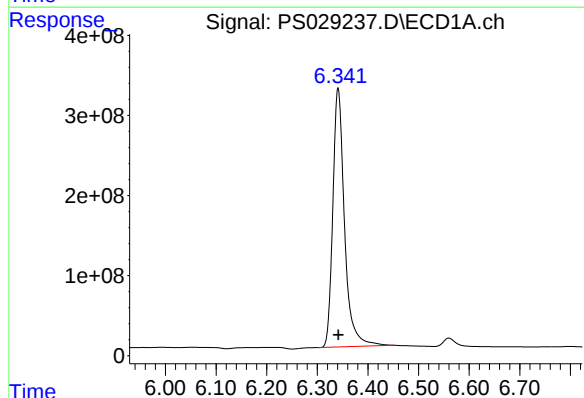
R.T.: 2.602 min
Delta R.T.: 0.002 min
Response: 4808356362
Conc: 901.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



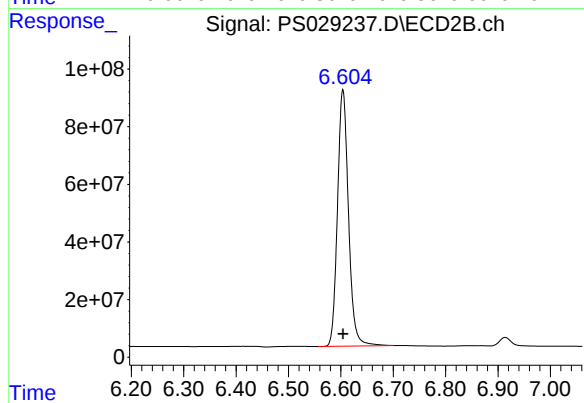
#1 Dalapon

R.T.: 2.649 min
Delta R.T.: -0.002 min
Response: 1862488178
Conc: 906.19 ng/ml



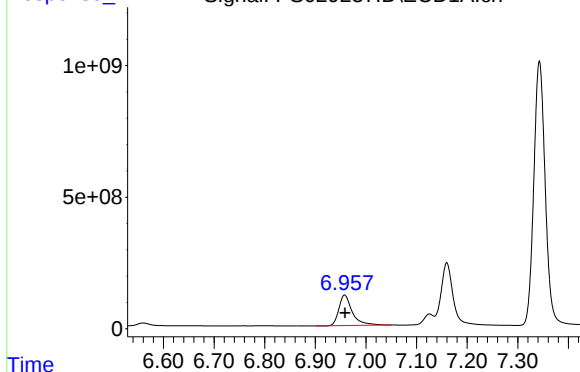
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 5190854031
Conc: 914.11 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 1296789679
Conc: 935.51 ng/ml



R.T.: 6.958 min
Delta R.T.: 0.000 min
Response: 2125831668
Conc: 916.03 ng/ml

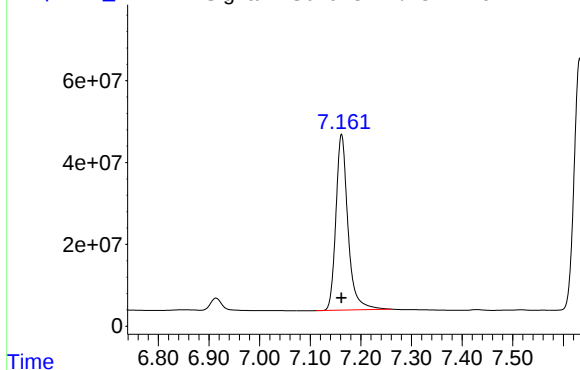
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Time

Response_

Signal: PS029237.D\ECD2B.ch

#3 4-Nitrophenol



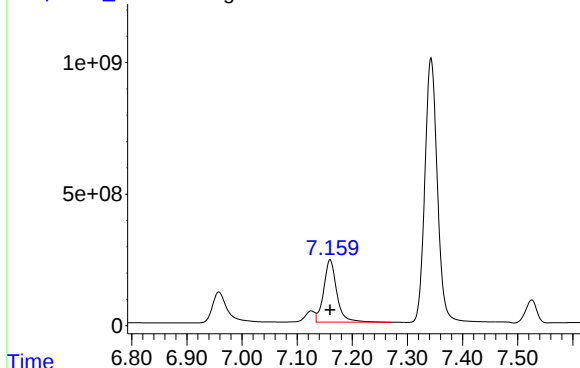
R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 711923525
Conc: 914.53 ng/ml

Time

Response_

Signal: PS029237.D\ECD1A.ch

#4 2,4-DCAA



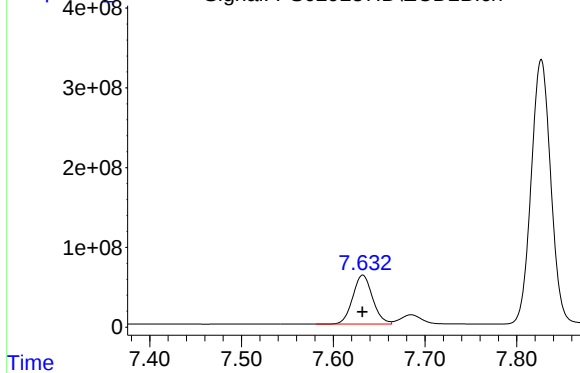
R.T.: 7.160 min
Delta R.T.: 0.000 min
Response: 3904375525
Conc: 987.64 ng/ml

Time

Response_

Signal: PS029237.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 923871054
Conc: 1006.46 ng/ml

Time

Response_ Signal: PS029237.D\ECD1A.ch

#5 DICAMBA

R.T.: 7.343 min
Delta R.T.: 0.000 min
Response: 15712263512
Conc: 926.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Time

Response_ Signal: PS029237.D\ECD2B.ch

#5 DICAMBA

R.T.: 7.827 min
Delta R.T.: 0.000 min
Response: 4925671975
Conc: 961.11 ng/ml

Time

Response_ Signal: PS029237.D\ECD1A.ch

#6 MCP

R.T.: 7.525 min
Delta R.T.: 0.002 min
Response: 1212812746
Conc: 97.84 ug/ml

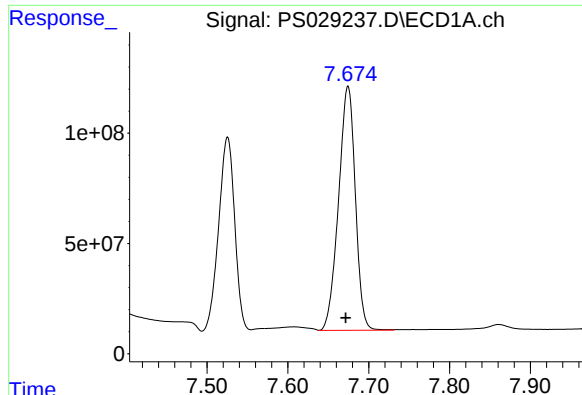
Time

Response_ Signal: PS029237.D\ECD2B.ch

#6 MCP

R.T.: 7.934 min
Delta R.T.: 0.002 min
Response: 229098431
Conc: 97.38 ug/ml

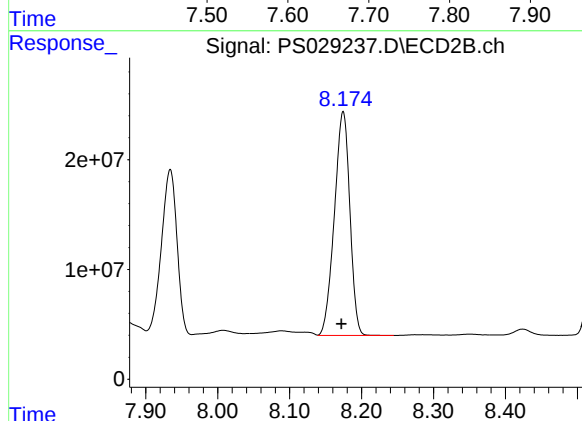
Time



#7 MCPA

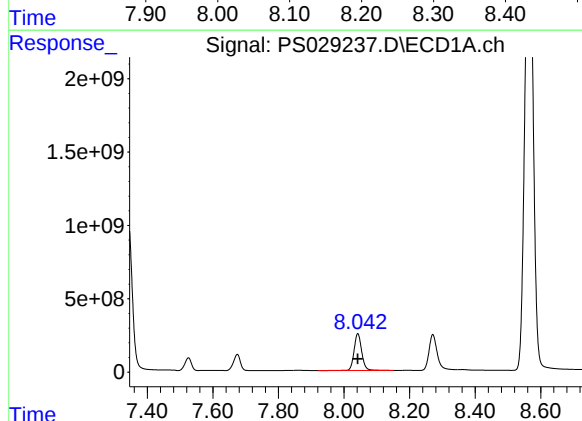
R.T.: 7.674 min
Delta R.T.: 0.003 min
Response: 1599125477
Conc: 95.21 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



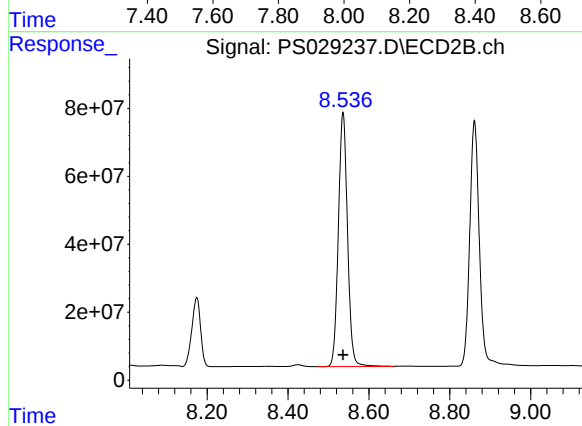
#7 MCPA

R.T.: 8.174 min
Delta R.T.: 0.003 min
Response: 305170612
Conc: 95.80 ug/ml



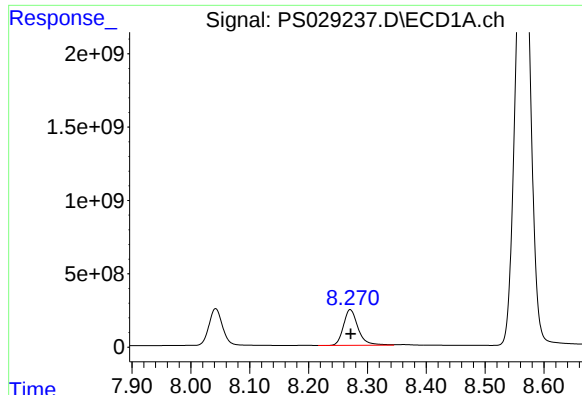
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 4059965411
Conc: 925.95 ng/ml



#8 DICHLORPROP

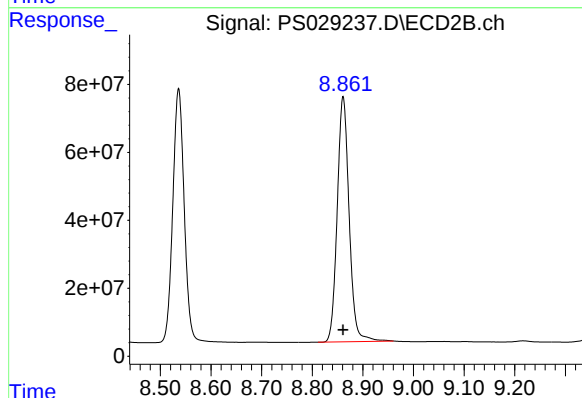
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 1174485641
Conc: 943.26 ng/ml



#9 2,4-D

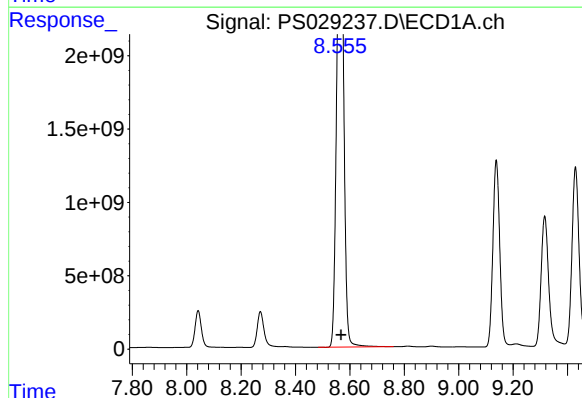
R.T.: 8.271 min
Delta R.T.: 0.000 min
Response: 4228823353
Conc: 924.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



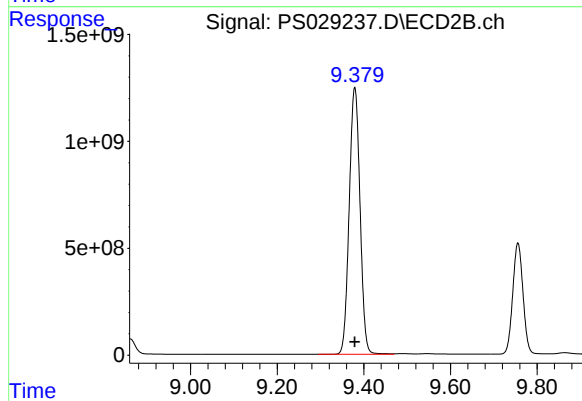
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 1179694891
Conc: 951.40 ng/ml



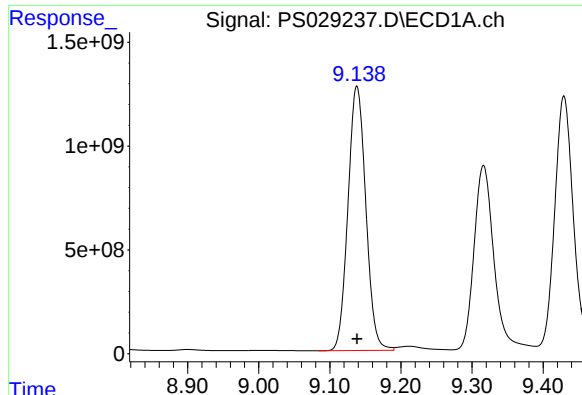
#10 Pentachlorophenol

R.T.: 8.569 min
Delta R.T.: 0.002 min
Response: 47978884087
Conc: 808.59 ng/ml



#10 Pentachlorophenol

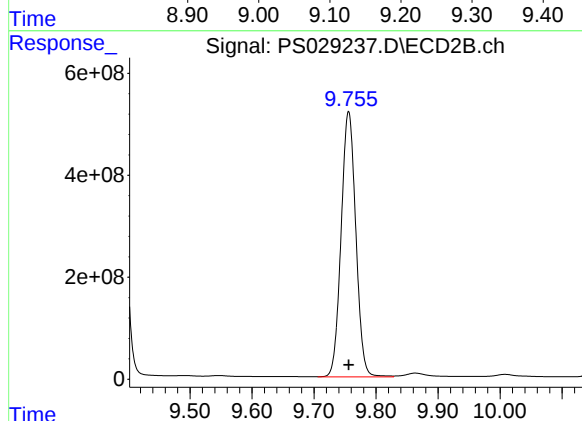
R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 21616548472
Conc: 942.25 ng/ml



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

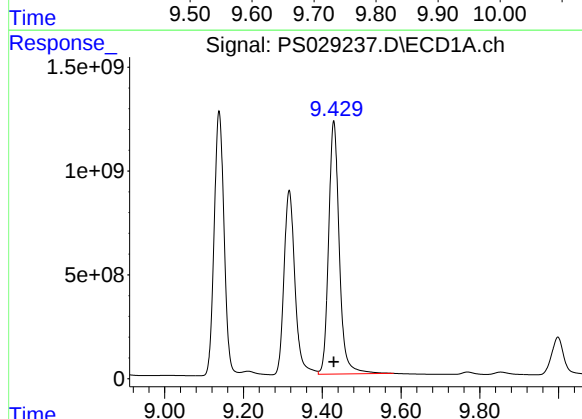
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 22191616916
Conc: 926.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



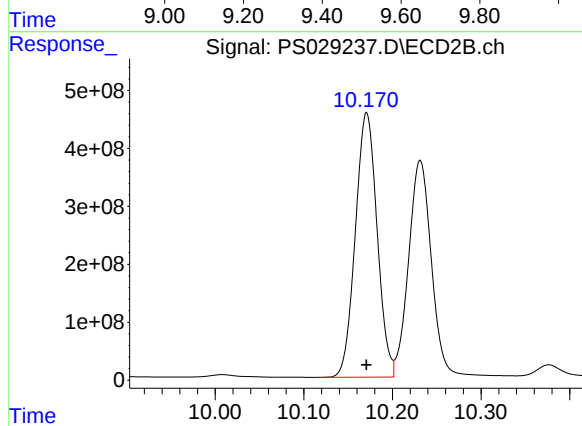
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 8560567188
Conc: 951.59 ng/ml



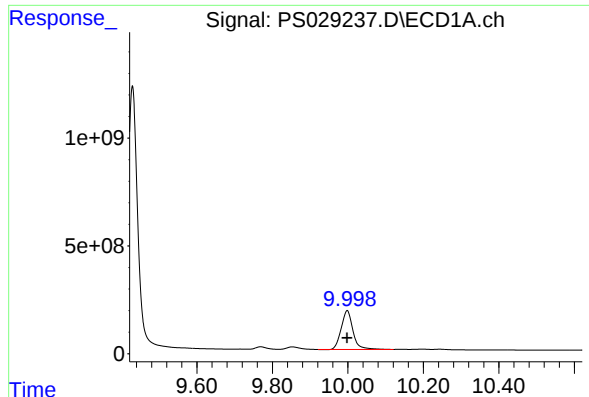
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 22908298887
Conc: 921.48 ng/ml



#12 2,4,5-T

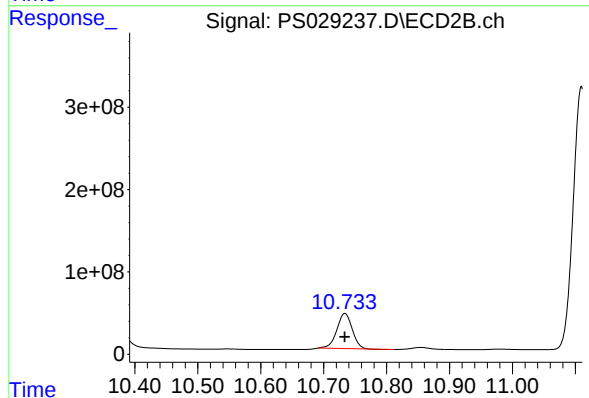
R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 7785232535
Conc: 953.70 ng/ml



#13 2,4-DB

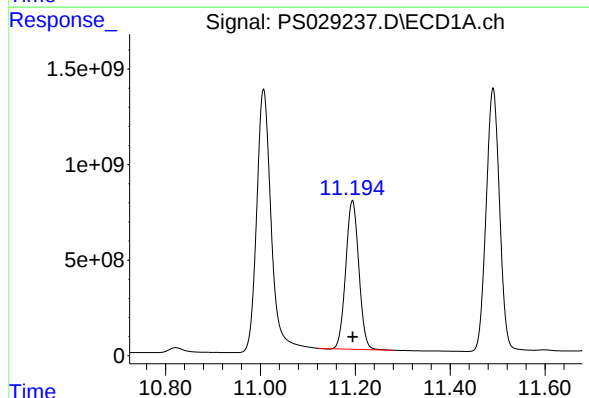
R.T.: 9.998 min
Delta R.T.: 0.000 min
Response: 3902961022
Conc: 953.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



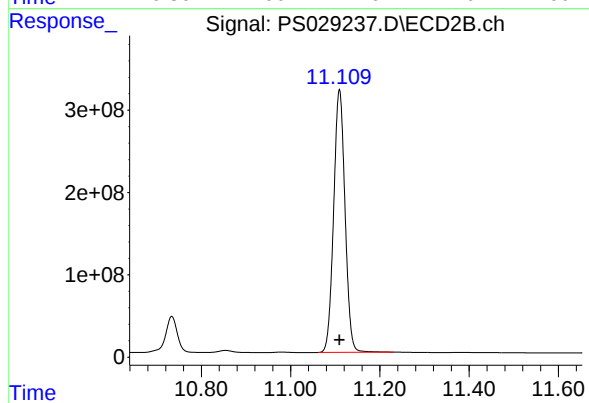
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 722459649
Conc: 963.50 ng/ml



#14 DINOSEB

R.T.: 11.194 min
Delta R.T.: 0.000 min
Response: 14868367443
Conc: 920.60 ng/ml



#14 DINOSEB

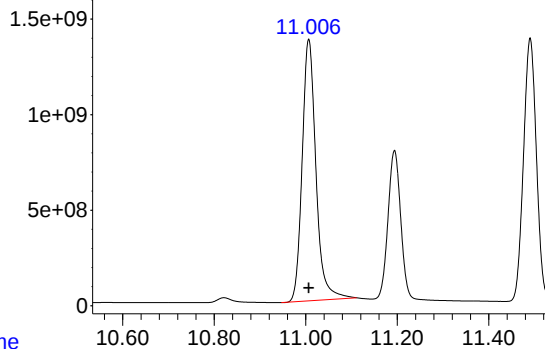
R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 5641449993
Conc: 946.69 ng/ml

Response_

Signal: PS029237.D\ECD1A.ch

#15 Picloram

ICAL Form



R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 28555054930
Conc: 941.14 ng/ml

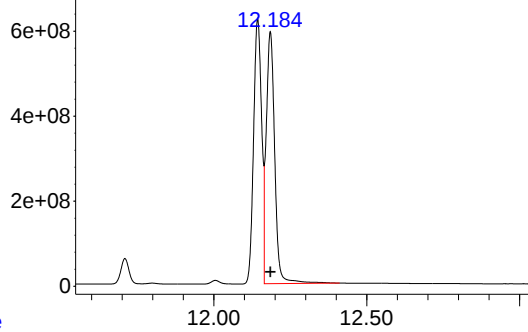
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Time

Response_

Signal: PS029237.D\ECD2B.ch

#15 Picloram



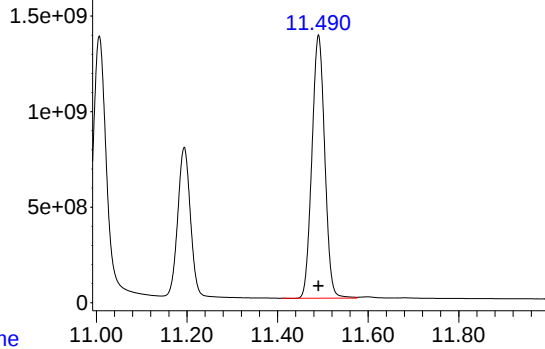
R.T.: 12.185 min
Delta R.T.: 0.000 min
Response: 11497763578
Conc: 979.47 ng/ml

Time

Response_

Signal: PS029237.D\ECD1A.ch

#16 DCPA



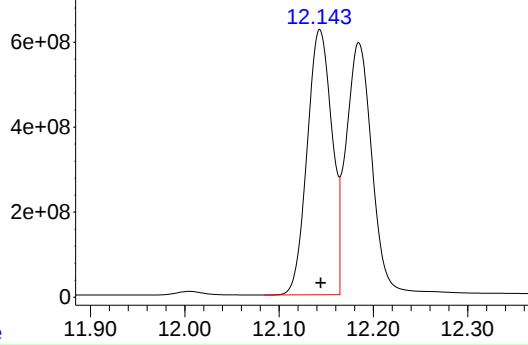
R.T.: 11.490 min
Delta R.T.: 0.000 min
Response: 27030826064
Conc: 925.44 ng/ml

Time

Response_

Signal: PS029237.D\ECD2B.ch

#16 DCPA



R.T.: 12.143 min
Delta R.T.: 0.000 min
Response: 11366475727
Conc: 960.52 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029238.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 21:32
 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: Feb 22 00:48:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 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	7.159	7.631	5603.2E6	1365.5E6	1417.359	1487.581
Target Compounds							
1) T	Dalapon	2.599	2.650	7080.6E6	2737.9E6	1327.200	1332.102
2) T	3,5-DICHL...	6.341	6.603	7424.8E6	1902.1E6	1307.522	1372.147
3) T	4-Nitroph...	6.957	7.161	3188.9E6	1057.7E6	1374.098	1358.752
5) T	DICAMBA	7.342	7.826	22386.1E6	7349.3E6	1320.684	1434.025
6) T	MCPD	7.528	7.937	1849.5E6	345.7E6	149.200	146.934
7) T	MCPA	7.678	8.179	2403.1E6	459.1E6	143.079	144.104
8) T	DICHLORPROP	8.042	8.536	5832.5E6	1734.2E6	1330.222	1392.771
9) T	2,4-D	8.270	8.861	6067.9E6	1740.7E6	1325.935	1403.795
10) T	Pentachlo...	8.571	9.379	54359.2E6	30762.8E6	916.113	1340.930 #
11) T	2,4,5-TP ...	9.138	9.756	31108.4E6	12548.3E6	1298.890	1394.873
12) T	2,4,5-T	9.428	10.170	32195.4E6	11467.8E6	1295.051	1404.828
13) T	2,4-DB	9.996	10.733	5711.1E6	1098.1E6	1395.655	1464.450
14) T	DINOSEB	11.193	11.109	21096.9E6	8350.5E6	1306.243	1401.292
15) T	Picloram	11.005	12.184	41466.5E6	17354.9E6	1366.686	1478.435
16) T	DCPA	11.489	12.143	37451.6E6	16567.6E6	1282.213	1400.042

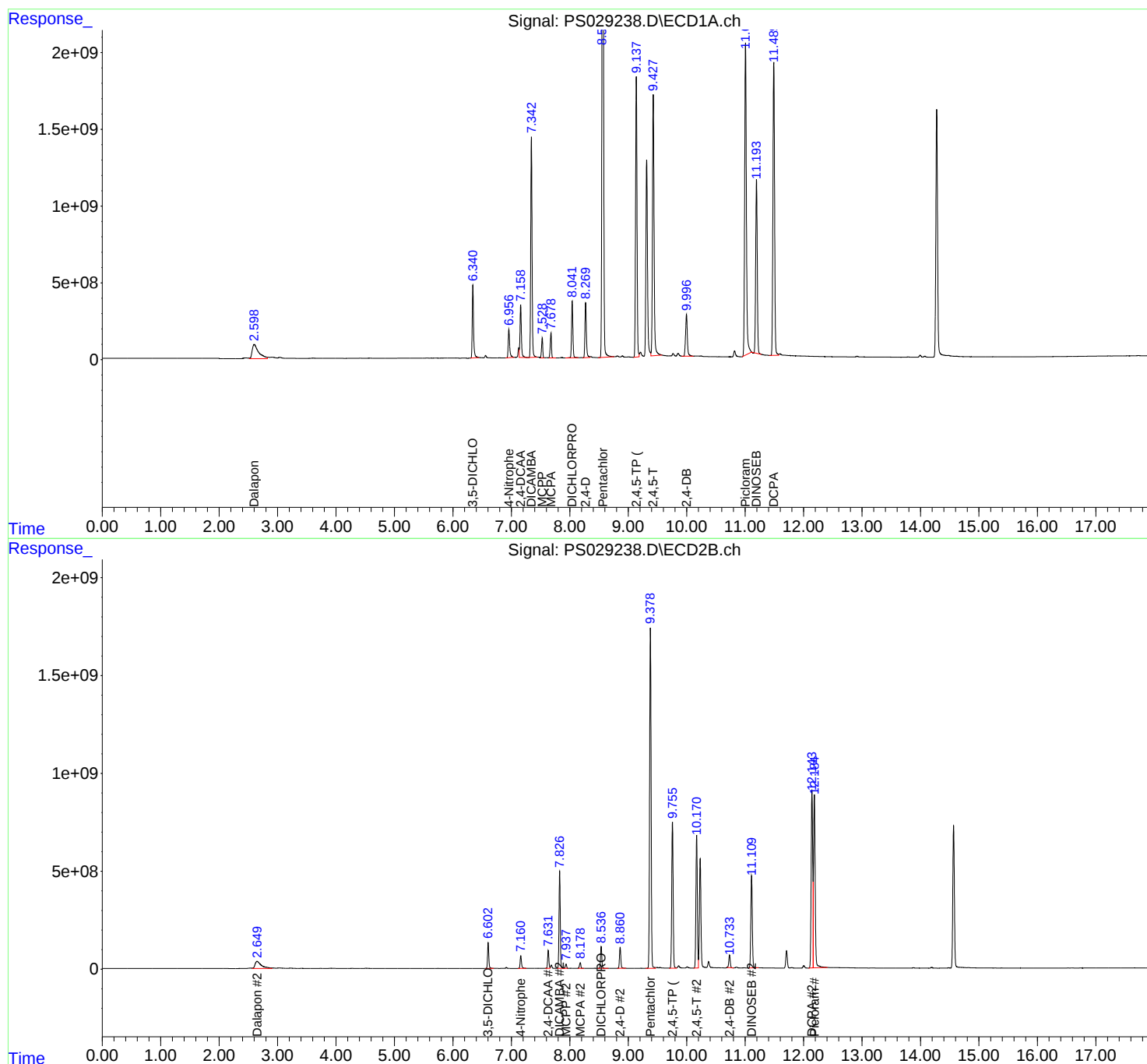
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029238.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 21:32
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

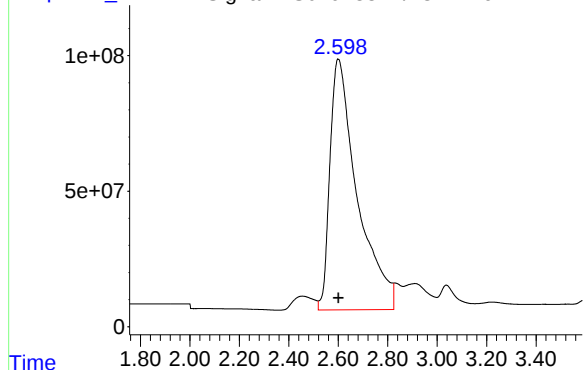
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:48:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
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: PS029238.D\ECD1A.ch

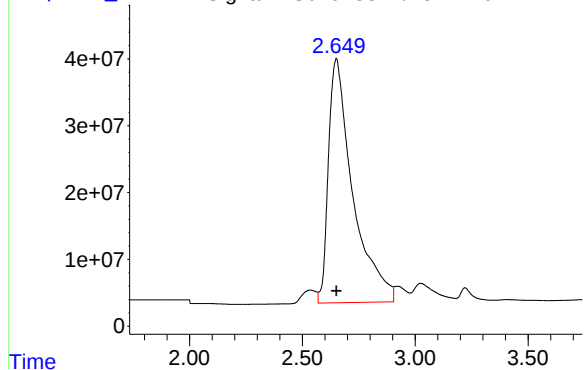


#1 Dalapon

R.T.: 2.599 min
Delta R.T.: -0.001 min
Response: 7080571294
Conc: 1327.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

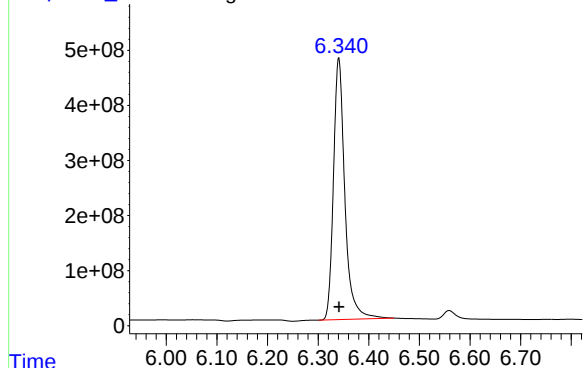
Response_ Signal: PS029238.D\ECD2B.ch



#1 Dalapon

R.T.: 2.650 min
Delta R.T.: 0.000 min
Response: 2737855534
Conc: 1332.10 ng/ml

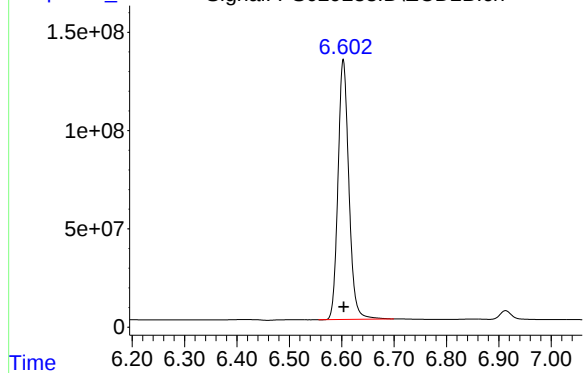
Response_ Signal: PS029238.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

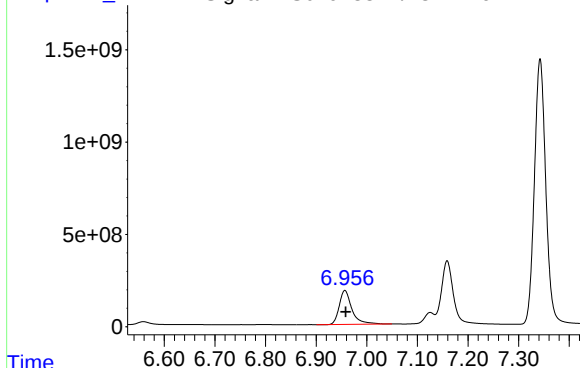
R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 7424849560
Conc: 1307.52 ng/ml

Response_ Signal: PS029238.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.603 min
Delta R.T.: -0.001 min
Response: 1902059626
Conc: 1372.15 ng/ml



R.T.: 6.957 min
Delta R.T.: -0.002 min
Response: 3188857470
Conc: 1374.10 ng/ml

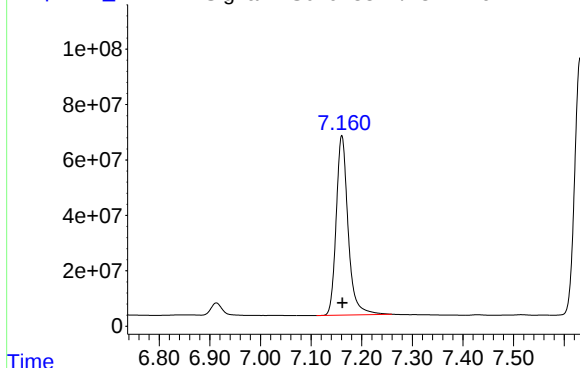
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time

Response_

Signal: PS029238.D\ECD2B.ch

#3 4-Nitrophenol



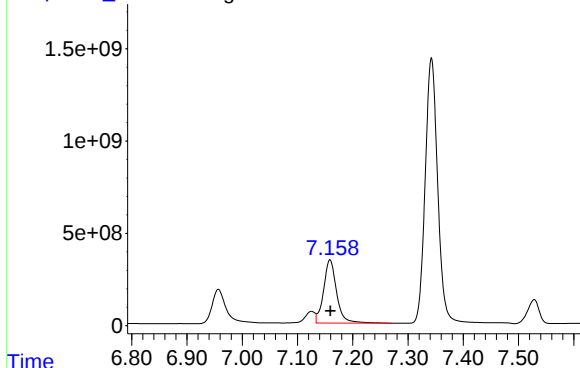
R.T.: 7.161 min
Delta R.T.: -0.001 min
Response: 1057735327
Conc: 1358.75 ng/ml

Time

Response_

Signal: PS029238.D\ECD1A.ch

#4 2,4-DCAA



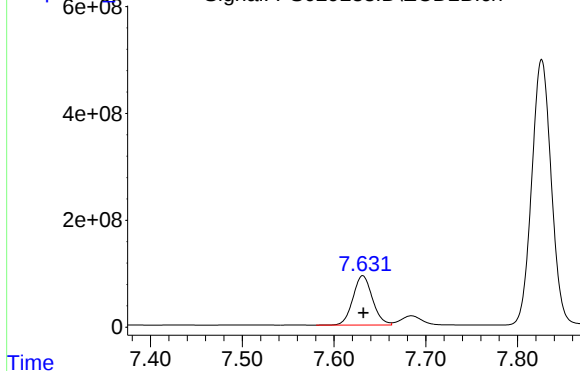
R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 5603151882
Conc: 1417.36 ng/ml

Time

Response_

Signal: PS029238.D\ECD2B.ch

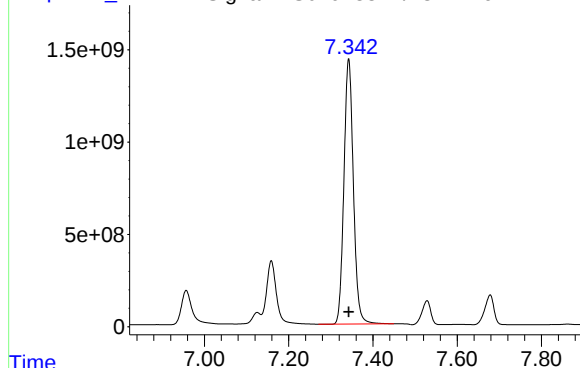
#4 2,4-DCAA



R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 1365513416
Conc: 1487.58 ng/ml

Time

Response_ Signal: PS029238.D\ECD1A.ch

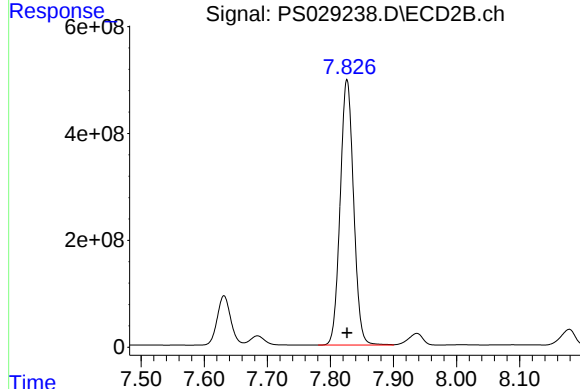


#5 DICAMBA

R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 22386140520
Conc: 1320.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

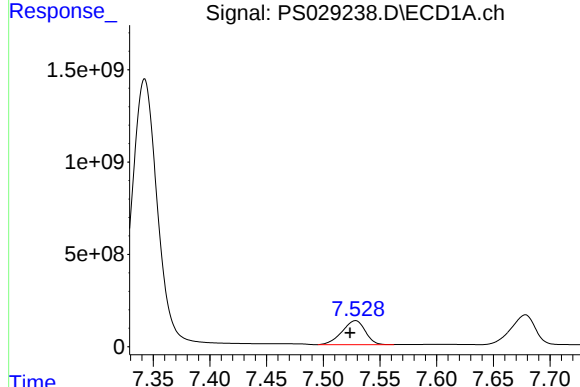
Time Response_ Signal: PS029238.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 7349348798
Conc: 1434.03 ng/ml

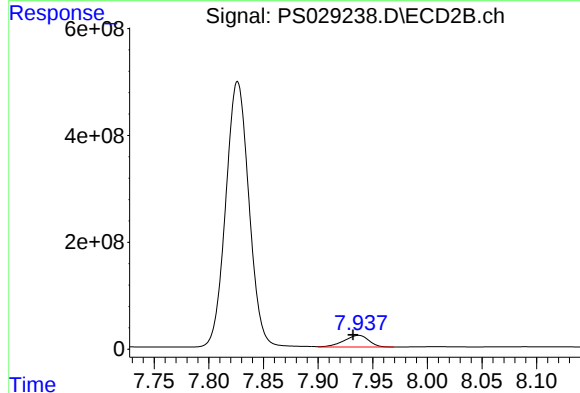
Time Response_ Signal: PS029238.D\ECD1A.ch



#6 MCPP

R.T.: 7.528 min
Delta R.T.: 0.005 min
Response: 1849517092
Conc: 149.20 ug/ml

Time Response_ Signal: PS029238.D\ECD2B.ch

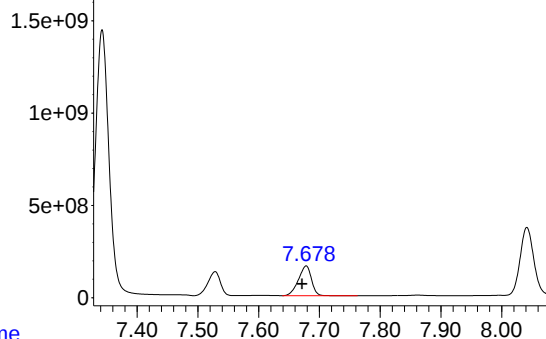


#6 MCPP

R.T.: 7.937 min
Delta R.T.: 0.005 min
Response: 345689207
Conc: 146.93 ug/ml

Response_ Signal: PS029238.D\ECD1A.ch

#7 MCPA

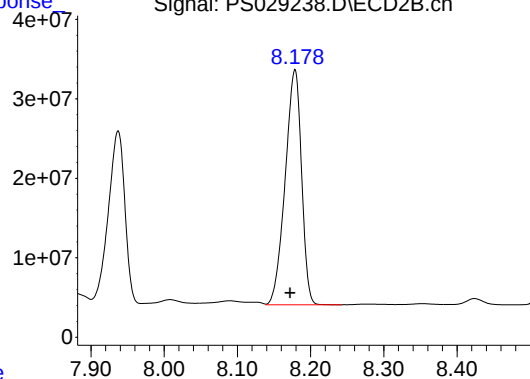


R.T.: 7.678 min
Delta R.T.: 0.007 min
Response: 2403120724
Conc: 143.08 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time Response_ Signal: PS029238.D\ECD2B.ch

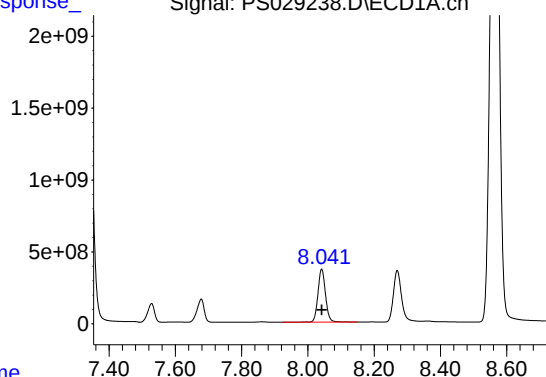
#7 MCPA



R.T.: 8.179 min
Delta R.T.: 0.007 min
Response: 459050317
Conc: 144.10 ug/ml

Time Response_ Signal: PS029238.D\ECD1A.ch

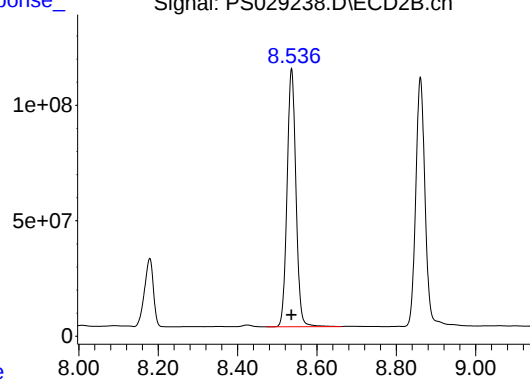
#8 DICHLORPROP



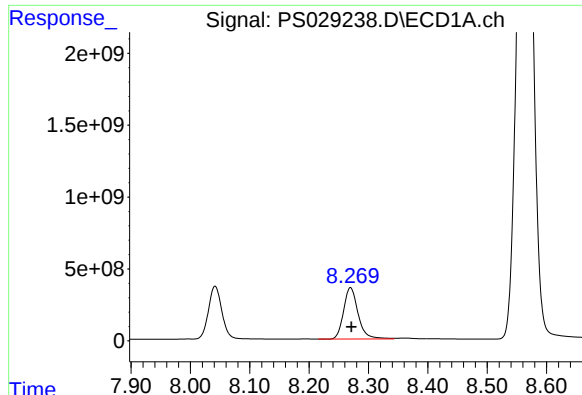
R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 5832532660
Conc: 1330.22 ng/ml

Time Response_ Signal: PS029238.D\ECD2B.ch

#8 DICHLORPROP



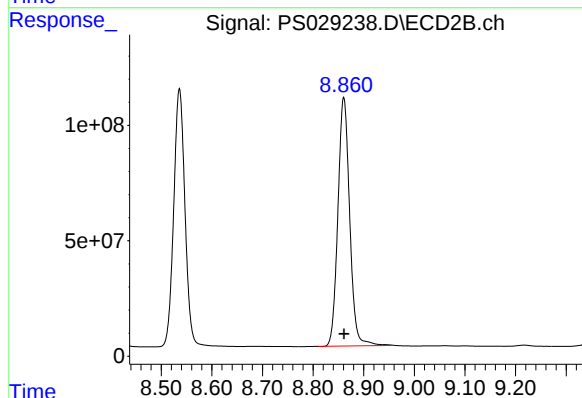
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 1734192188
Conc: 1392.77 ng/ml



#9 2,4-D

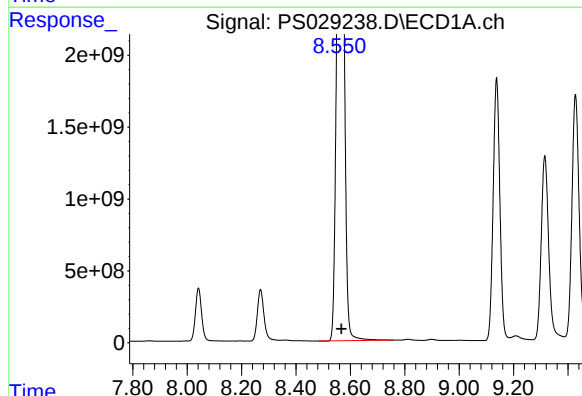
R.T.: 8.270 min
Delta R.T.: -0.002 min
Response: 6067874299
Conc: 1325.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



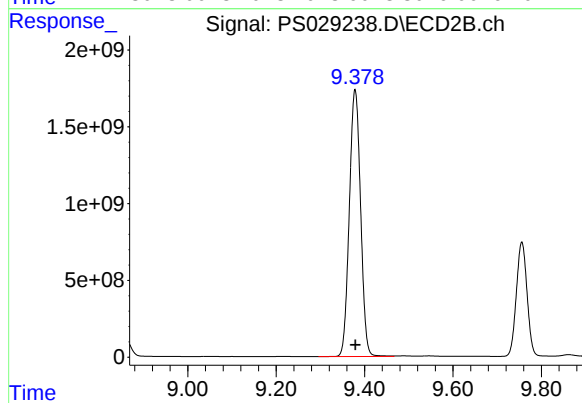
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 1740651458
Conc: 1403.79 ng/ml



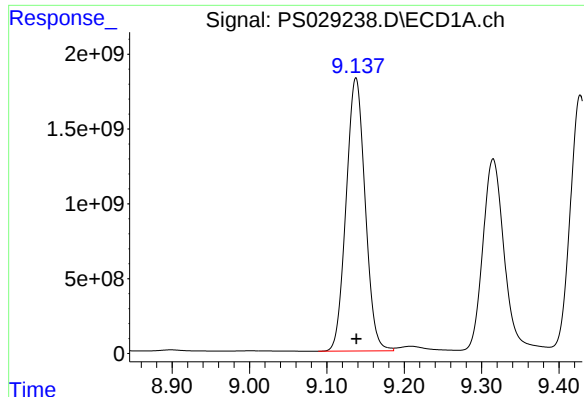
#10 Pentachlorophenol

R.T.: 8.571 min
Delta R.T.: 0.004 min
Response: 54359230461
Conc: 916.11 ng/ml



#10 Pentachlorophenol

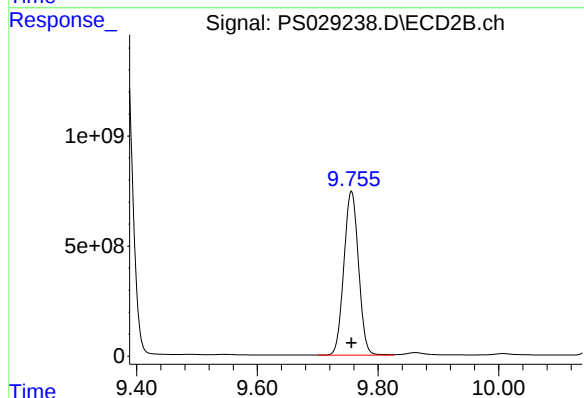
R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 30762766016
Conc: 1340.93 ng/ml



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

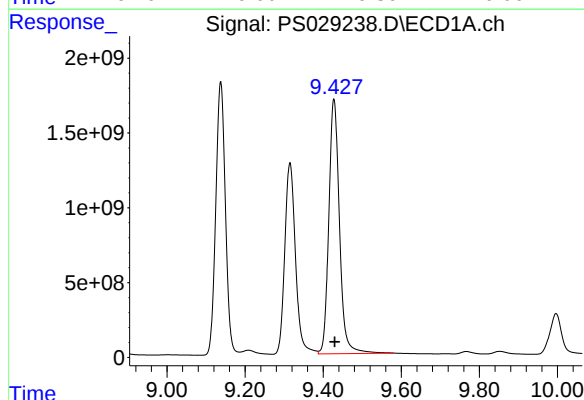
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 31108399722
Conc: 1298.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



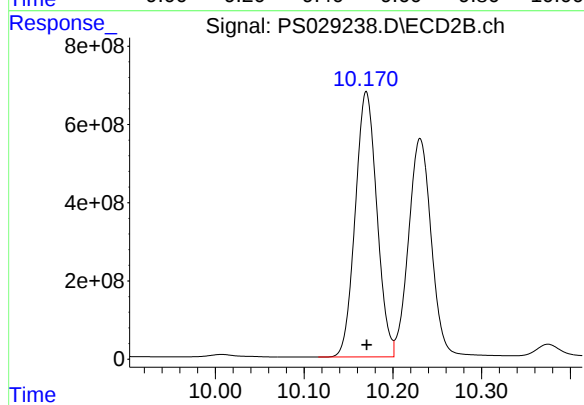
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 12548343048
Conc: 1394.87 ng/ml



#12 2,4,5-T

R.T.: 9.428 min
Delta R.T.: -0.002 min
Response: 32195350320
Conc: 1295.05 ng/ml



#12 2,4,5-T

R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 11467843425
Conc: 1404.83 ng/ml

Response_ Signal: PS029238.D\ECD1A.ch

#13 2,4-DB

R.T.: 9.996 min
Delta R.T.: -0.002 min
Response: 5711124670
Conc: 1395.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time

Response_ Signal: PS029238.D\ECD2B.ch

#13 2,4-DB

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 1098082586
Conc: 1464.45 ng/ml

Time

Response_ Signal: PS029238.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.193 min
Delta R.T.: -0.001 min
Response: 21096868606
Conc: 1306.24 ng/ml

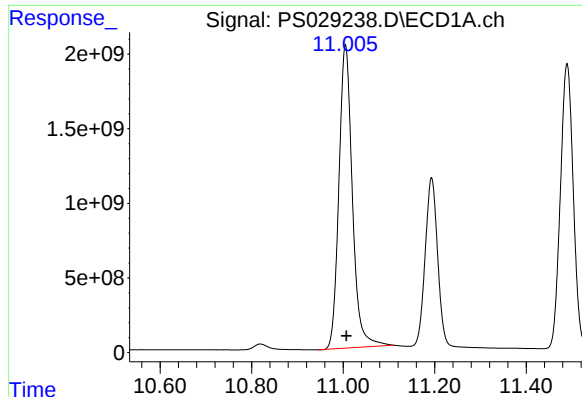
Time

Response_ Signal: PS029238.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 8350523882
Conc: 1401.29 ng/ml

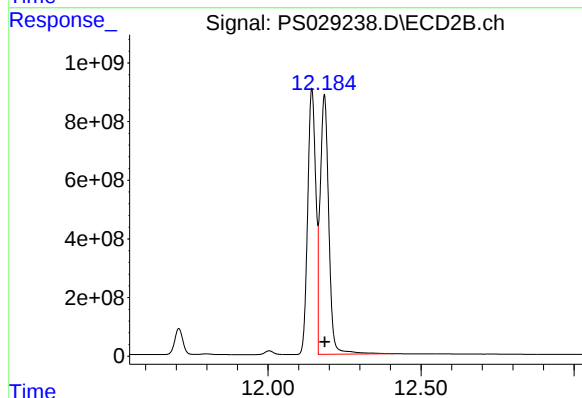
Time



#15 Picloram

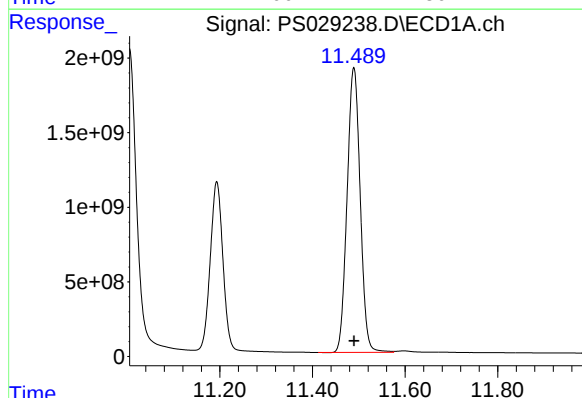
R.T.: 11.005 min
Delta R.T.: -0.002 min
Response: 41466531319
Conc: 1366.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



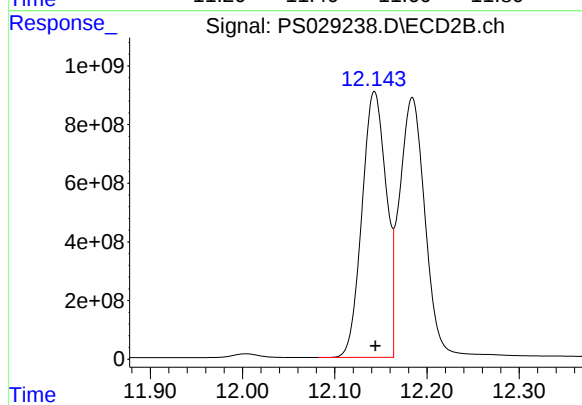
#15 Picloram

R.T.: 12.184 min
Delta R.T.: 0.000 min
Response: 17354912982
Conc: 1478.44 ng/ml



#16 DCPA

R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 37451604963
Conc: 1282.21 ng/ml



#16 DCPA

R.T.: 12.143 min
Delta R.T.: -0.001 min
Response: 16567633877
Conc: 1400.04 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029239.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 21:56
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS022125

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 22 00:48:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 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	7.159	7.631	3006.3E6	696.2E6	760.470	758.413
Target Compounds							
1) T	Dalapon	2.601	2.647	3672.9E6	1411.4E6	688.464	686.734
2) T	3,5-DICHL...	6.341	6.603	3997.2E6	979.2E6	703.903	706.431
3) T	4-Nitroph...	6.958	7.162	1586.8E6	534.7E6	683.748	686.872
5) T	DICAMBA	7.342	7.826	12149.2E6	3655.7E6	716.752	713.308
6) T	MCPD	7.523	7.931	877.8E6	168.1E6	70.814	71.451
7) T	MCPA	7.671	8.171	1179.4E6	225.5E6	70.221	70.791
8) T	DICHLORPROP	8.042	8.535	3120.1E6	886.8E6	711.599	712.198
9) T	2,4-D	8.270	8.860	3260.0E6	886.8E6	712.372	715.191
10) T	Pentachlo...	8.566	9.378	42728.6E6	16556.0E6	720.103	721.667
11) T	2,4,5-TP ...	9.137	9.755	17209.4E6	6480.5E6	718.554	720.373
12) T	2,4,5-T	9.428	10.169	17943.6E6	5874.7E6	721.778	719.658
13) T	2,4-DB	9.997	10.733	2931.8E6	536.7E6	716.459	715.709
14) T	DINOSEB	11.193	11.109	11470.9E6	4251.4E6	710.238	713.421
15) T	Picloram	11.006	12.183	21726.9E6	8497.3E6	716.090	723.872
16) T	DCPA	11.489	12.143	21240.2E6	8598.4E6	727.190	726.606

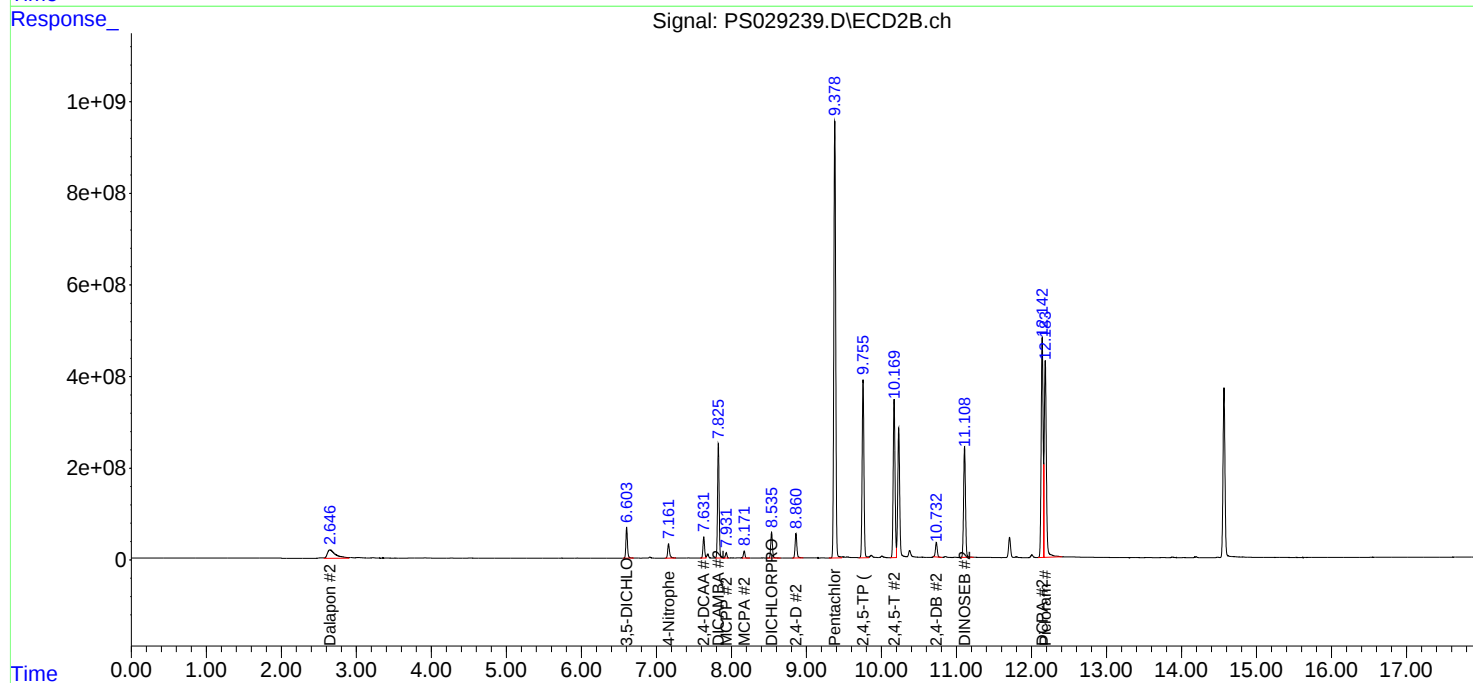
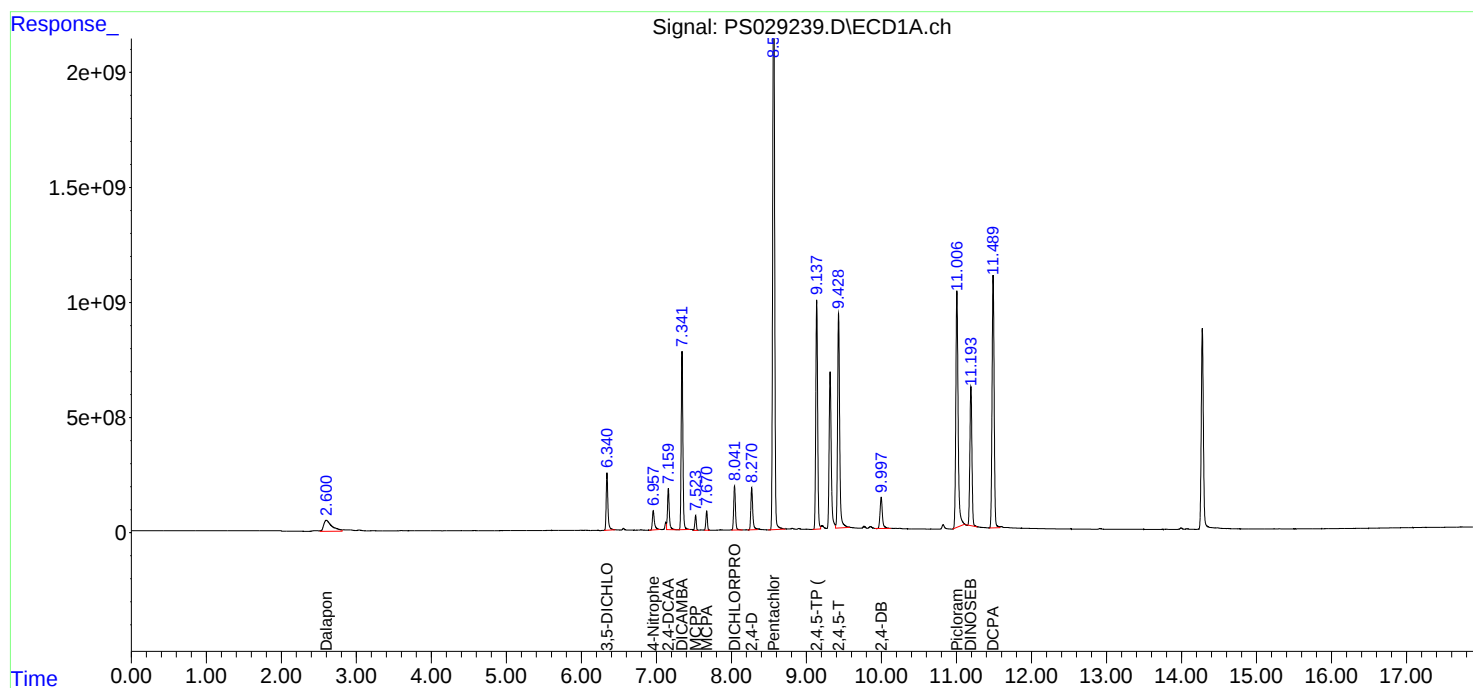
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029239.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 21:56
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

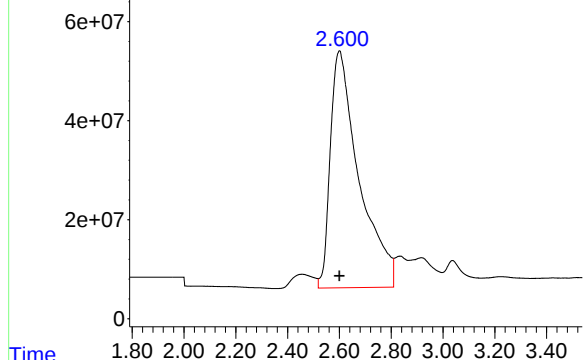
Instrument :
ECD_S
ClientSampleId :
ICVPS022125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:48:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
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: PS029239.D\ECD1A.ch

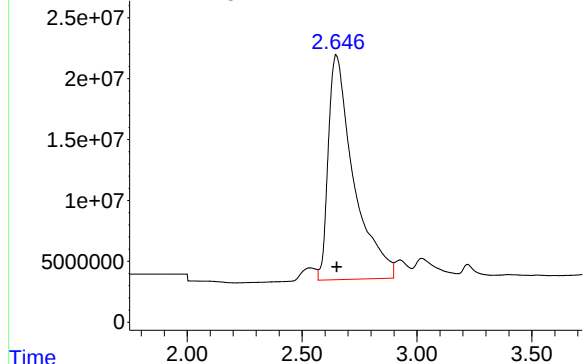


#1 Dalapon

R.T.: 2.601 min
Delta R.T.: 0.000 min
Response: 3672933634
Conc: 688.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125

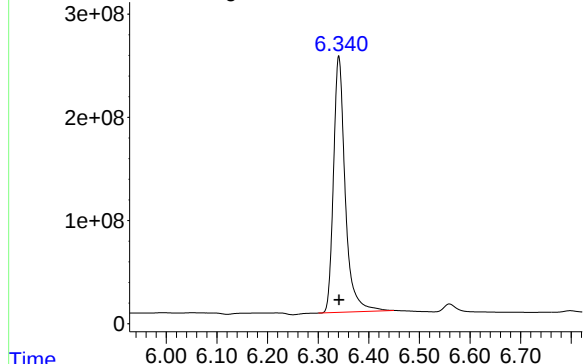
Response_ Signal: PS029239.D\ECD2B.ch



#1 Dalapon

R.T.: 2.647 min
Delta R.T.: -0.004 min
Response: 1411437306
Conc: 686.73 ng/ml

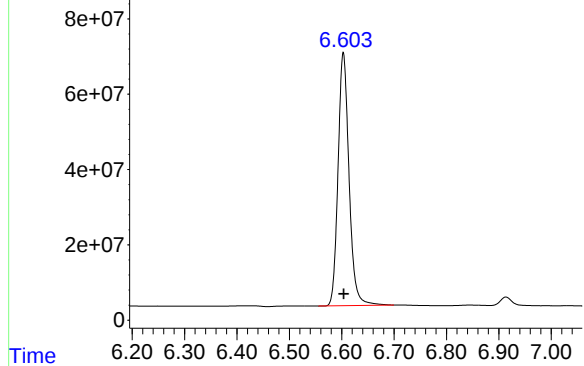
Response_ Signal: PS029239.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

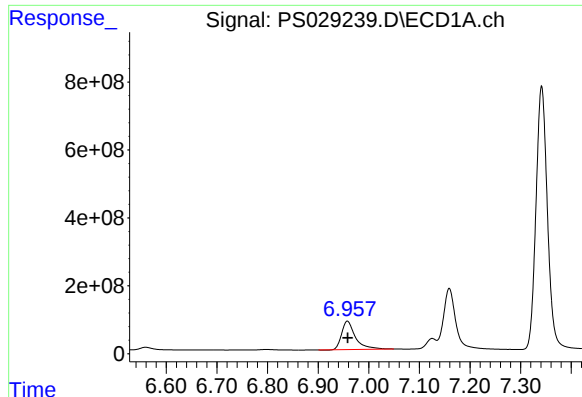
R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 3997160630
Conc: 703.90 ng/ml

Response_ Signal: PS029239.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

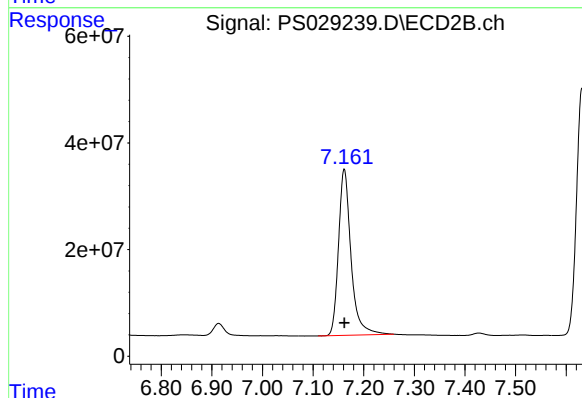
R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 979249364
Conc: 706.43 ng/ml



#3 4-Nitrophenol

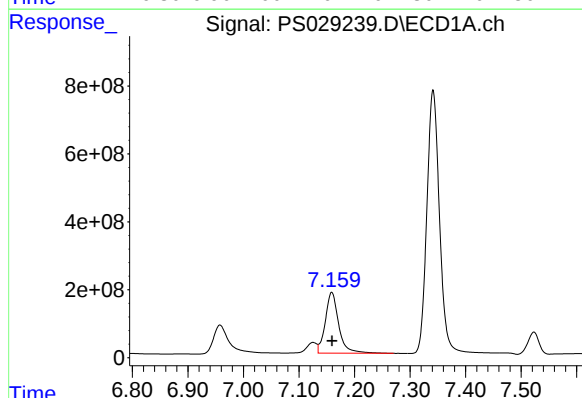
R.T.: 6.958 min
Delta R.T.: 0.000 min
Response: 1586766955
Conc: 683.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



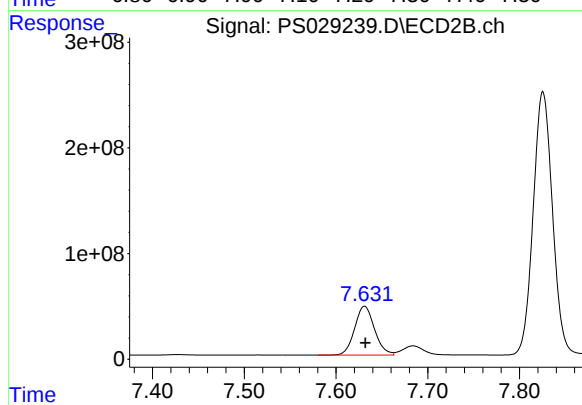
#3 4-Nitrophenol

R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 534703115
Conc: 686.87 ng/ml



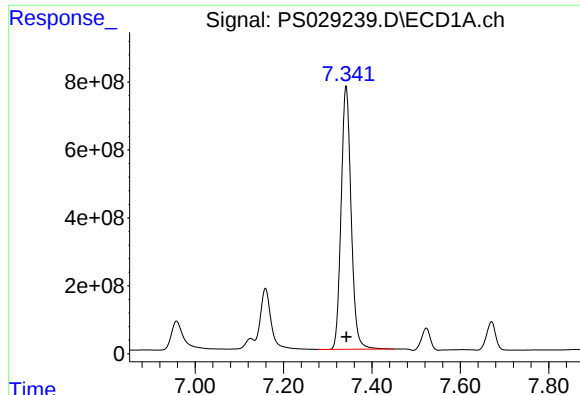
#4 2,4-DCAA

R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 3006318294
Conc: 760.47 ng/ml



#4 2,4-DCAA

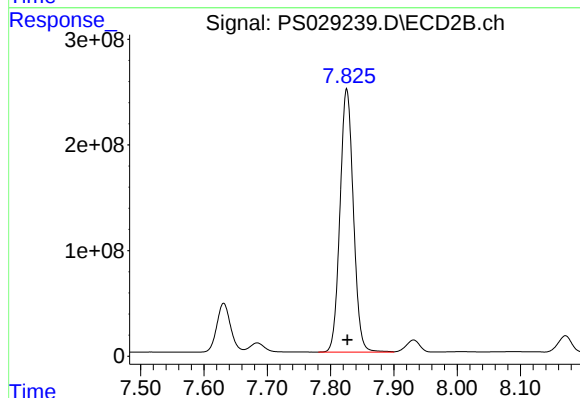
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 696179041
Conc: 758.41 ng/ml



#5 DICAMBA

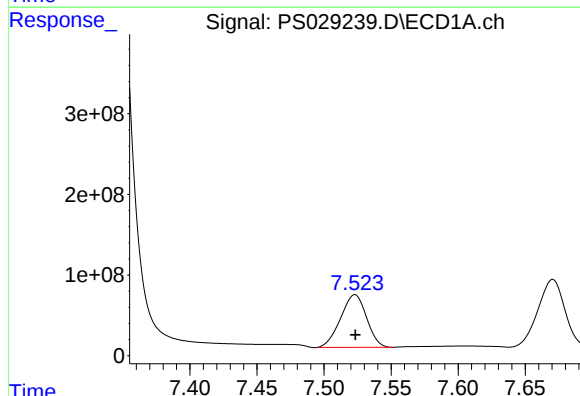
R.T.: 7.342 min
Delta R.T.: -0.001 min
Response: 12149233538
Conc: 716.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



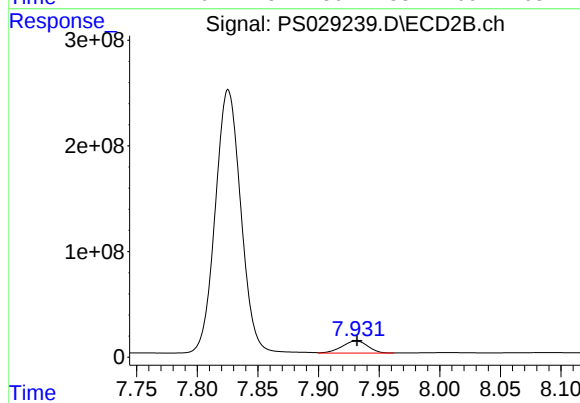
#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 3655688320
Conc: 713.31 ng/ml



#6 MCP

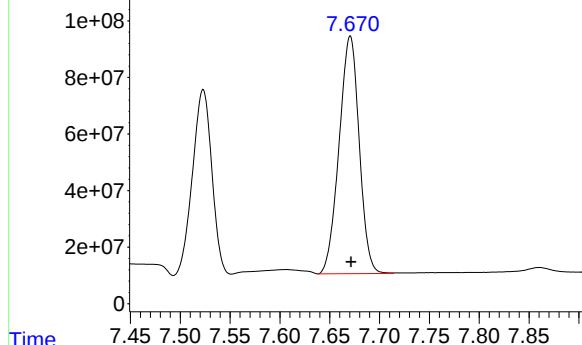
R.T.: 7.523 min
Delta R.T.: 0.000 min
Response: 877828120
Conc: 70.81 ug/ml



#6 MCP

R.T.: 7.931 min
Delta R.T.: 0.000 min
Response: 168100941
Conc: 71.45 ug/ml

Response_ Signal: PS029239.D\ECD1A.ch

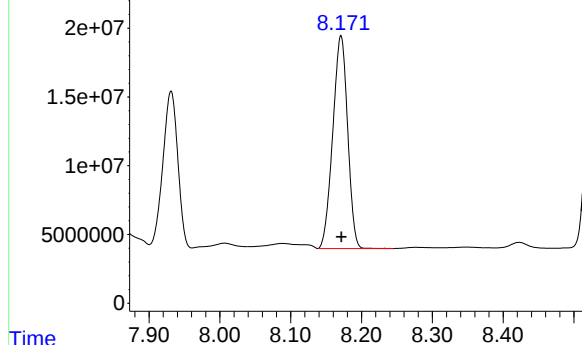


#7 MCPA

R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 1179424466
Conc: 70.22 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125

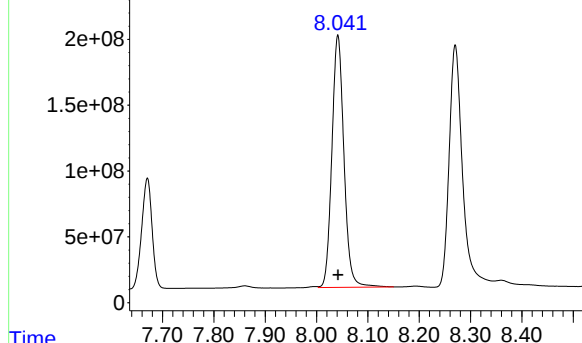
Response_ Signal: PS029239.D\ECD2B.ch



#7 MCPA

R.T.: 8.171 min
Delta R.T.: 0.000 min
Response: 225507146
Conc: 70.79 ug/ml

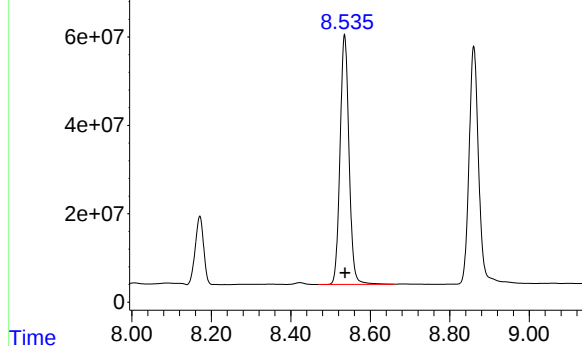
Response_ Signal: PS029239.D\ECD1A.ch



#8 DICHLORPROP

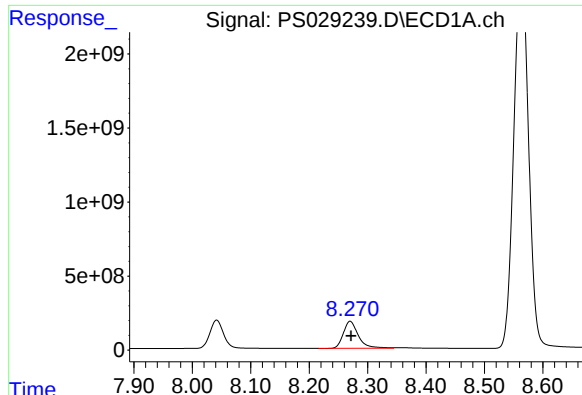
R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 3120098229
Conc: 711.60 ng/ml

Response_ Signal: PS029239.D\ECD2B.ch



#8 DICHLORPROP

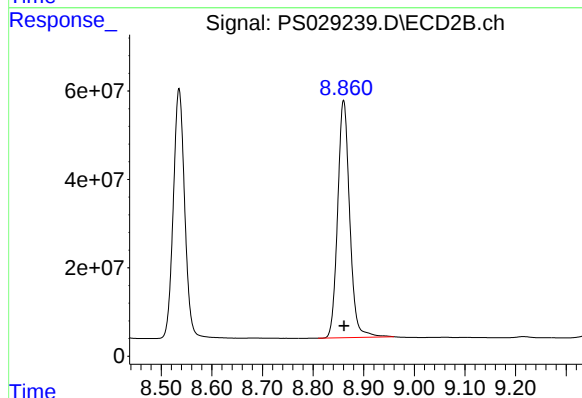
R.T.: 8.535 min
Delta R.T.: -0.001 min
Response: 886785123
Conc: 712.20 ng/ml



#9 2,4-D

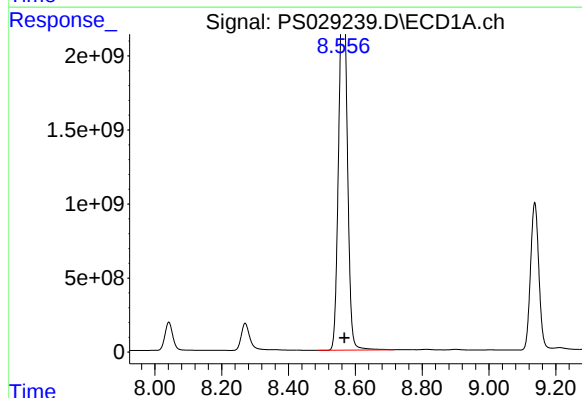
R.T.: 8.270 min
Delta R.T.: -0.001 min
Response: 3260026538
Conc: 712.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



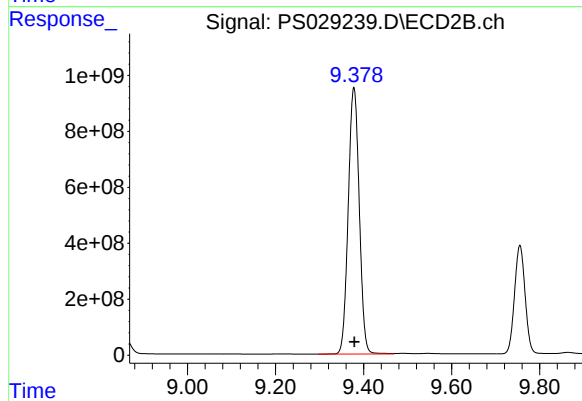
#9 2,4-D

R.T.: 8.860 min
Delta R.T.: 0.000 min
Response: 886809454
Conc: 715.19 ng/ml



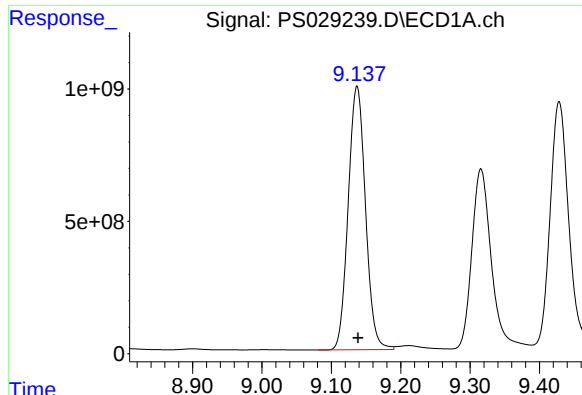
#10 Pentachlorophenol

R.T.: 8.566 min
Delta R.T.: 0.000 min
Response: 42728612521
Conc: 720.10 ng/ml



#10 Pentachlorophenol

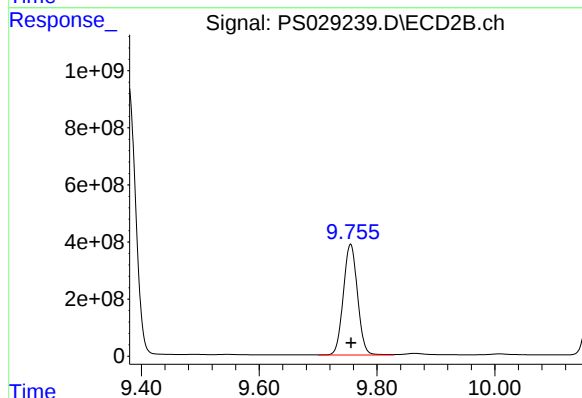
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 16556037362
Conc: 721.67 ng/ml



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

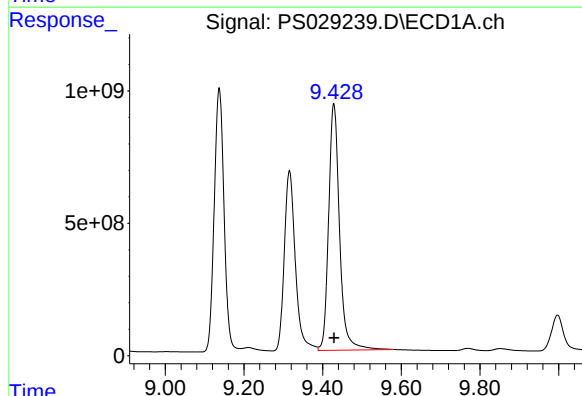
R.T.: 9.137 min
Delta R.T.: -0.001 min
Response: 17209365732
Conc: 718.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



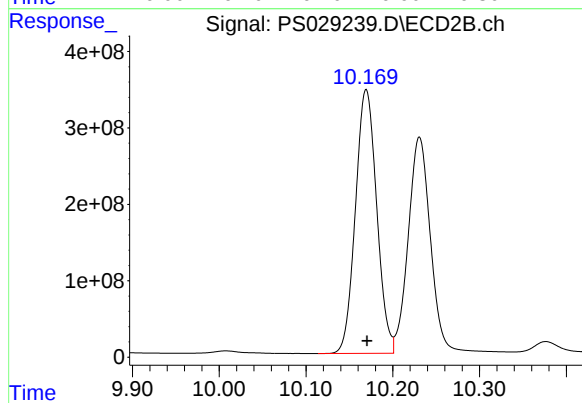
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 6480508039
Conc: 720.37 ng/ml



#12 2,4,5-T

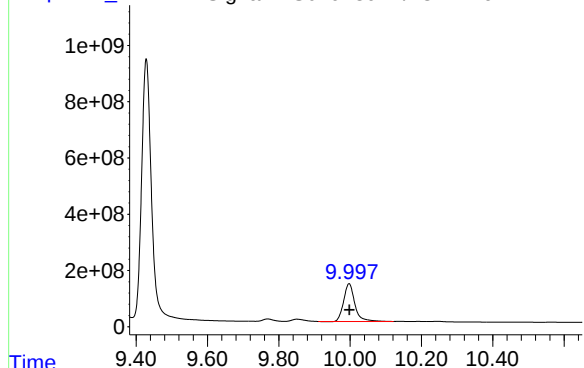
R.T.: 9.428 min
Delta R.T.: 0.000 min
Response: 17943611089
Conc: 721.78 ng/ml



#12 2,4,5-T

R.T.: 10.169 min
Delta R.T.: -0.001 min
Response: 5874685799
Conc: 719.66 ng/ml

Response_ Signal: PS029239.D\ECD1A.ch

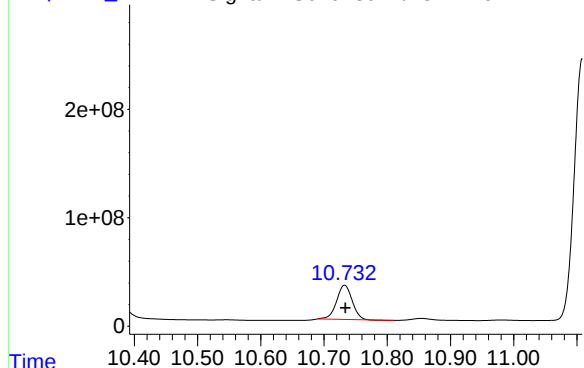


#13 2,4-DB

R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 2931802430
Conc: 716.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125

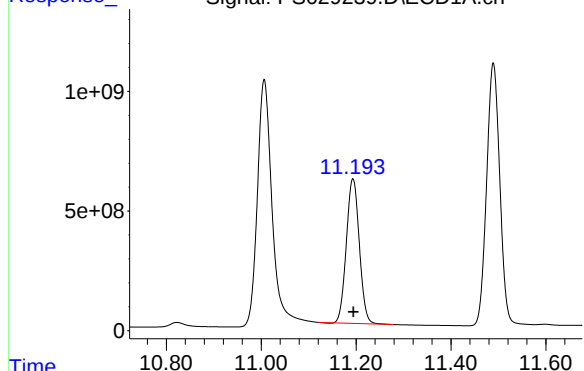
Response_ Signal: PS029239.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.733 min
Delta R.T.: -0.001 min
Response: 536657625
Conc: 715.71 ng/ml

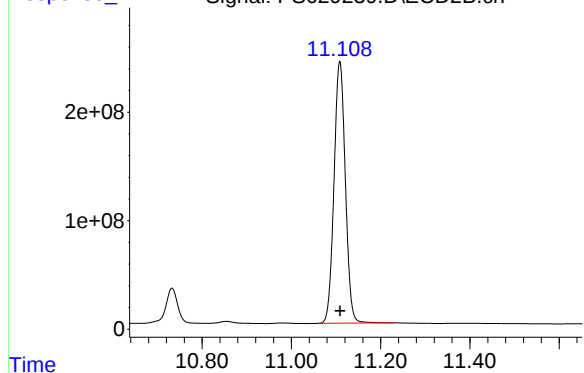
Response_ Signal: PS029239.D\ECD1A.ch



#14 DINOSEB

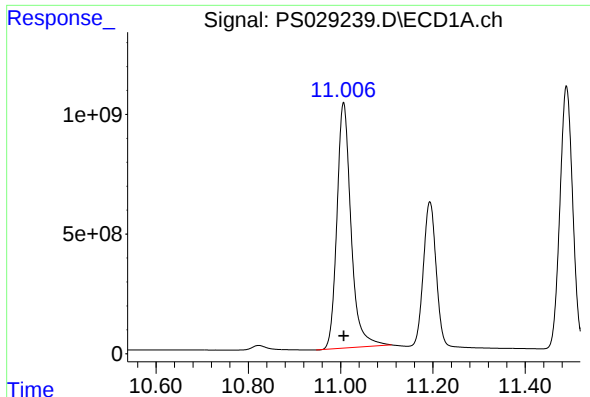
R.T.: 11.193 min
Delta R.T.: -0.001 min
Response: 11470913455
Conc: 710.24 ng/ml

Response_ Signal: PS029239.D\ECD2B.ch



#14 DINOSEB

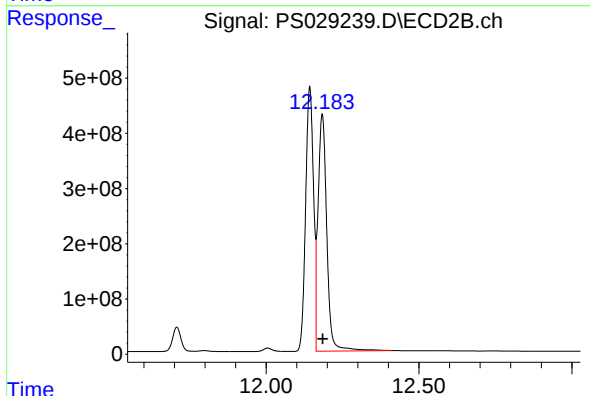
R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 4251391117
Conc: 713.42 ng/ml



#15 Picloram

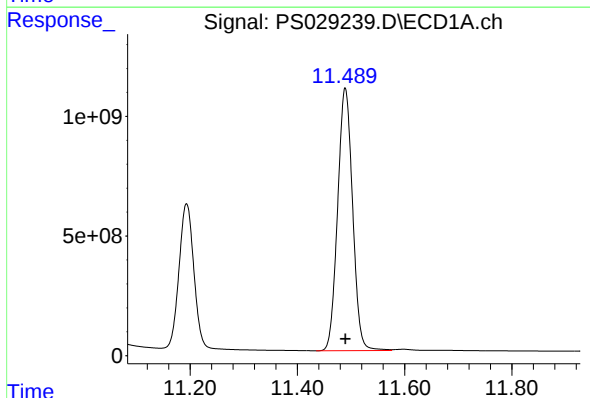
R.T.: 11.006 min
Delta R.T.: 0.000 min
Response: 21726851381
Conc: 716.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



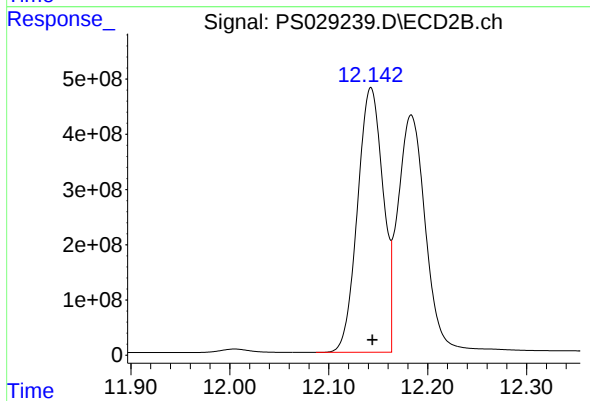
#15 Picloram

R.T.: 12.183 min
Delta R.T.: -0.002 min
Response: 8497319996
Conc: 723.87 ng/ml



#16 DCPA

R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 21240169581
Conc: 727.19 ng/ml



#16 DCPA

R.T.: 12.143 min
Delta R.T.: -0.001 min
Response: 8598414870
Conc: 726.61 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Continuing Calib Date: 03/19/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 10:02 Initial Calibration Time(s): 19:56 21:32

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
2,4-D	8.28	8.27	8.17	8.37	-0.01
2,4,5-TP(Silvex)	9.14	9.14	9.04	9.24	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Continuing Calib Date: 03/19/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 10:02 Initial Calibration Time(s): 19:56 21:32

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.62	7.63	7.53	7.73	0.01
2,4-D	8.85	8.86	8.76	8.96	0.01
2,4,5-TP(Silvex)	9.74	9.76	9.66	9.86	0.02



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CALIBRATION VERIFICATION SUMMARY
Contract: WEST04
Lab Code: CHEM **Case No.:** Q1569 **SAS No.:** Q1569 **SDG NO.:** Q1569
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/21/2025 02/21/2025
Client Sample No.: CCAL01 **Date Analyzed:** 03/19/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS029453.D **Time Analyzed:** 10:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.144	9.038	9.238	736.050	712.500	3.3
2,4-D	8.279	8.171	8.371	689.350	705.000	-2.2
2,4-DCAA	7.163	7.060	7.260	750.070	750.000	0.0



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CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL01 Date Analyzed: 03/19/2025

Lab Sample No.: HSTDCCC750 Data File : PS029453.D Time Analyzed: 10:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.741	9.656	9.856	716.950	712.500	0.6
2,4-D	8.849	8.761	8.961	664.460	705.000	-5.8
2,4-DCAA	7.623	7.532	7.732	691.880	750.000	-7.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
 Data File : PS029453.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 10:02
 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: Mar 20 01:35:39 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.163	7.623	3090.7E6	650.6E6	750.068	691.882
Target Compounds							
1) T	Dalapon	2.596	2.635	3810.6E6	1388.4E6	690.293	655.797
2) T	3,5-DICHL...	6.344	6.597	4126.7E6	923.9E6	705.278	652.440
3) T	4-Nitroph...	6.965	7.155	1365.2E6	495.9E6	583.357	621.792
5) T	DICAMBA	7.345	7.815	12679.0E6	3560.2E6	730.106	690.900
6) T	MCP	7.526	7.921	912.4E6	156.0E6	74.021	66.673
7) T	MCPA	7.674	8.160	1204.4E6	213.4E6	71.076	66.897
8) T	DICHLORPROP	8.047	8.524	3243.5E6	853.9E6	705.646	667.737
9) T	2,4-D	8.279	8.849	3274.7E6	843.8E6	689.346	664.461
10) T	Pentachlo...	8.572	9.363	44370.4E6	16595.1E6	760.337	721.129
11) T	2,4,5-TP ...	9.144	9.741	18097.1E6	6478.9E6	736.046	716.954
12) T	2,4,5-T	9.437	10.155	18394.7E6	5632.1E6	721.680	685.976
13) T	2,4-DB	10.008	10.717	2647.6E6	521.3E6	634.099	680.926m
14) T	DINOSEB	11.200	11.091	11963.2E6	4141.2E6	719.341m	683.194m
15) T	Picloram	11.018	12.164	19535.5E6	7553.6E6	639.595	653.285
16) T	DCPA	11.497	12.123	22021.8E6	8799.3E6	733.975	743.400m

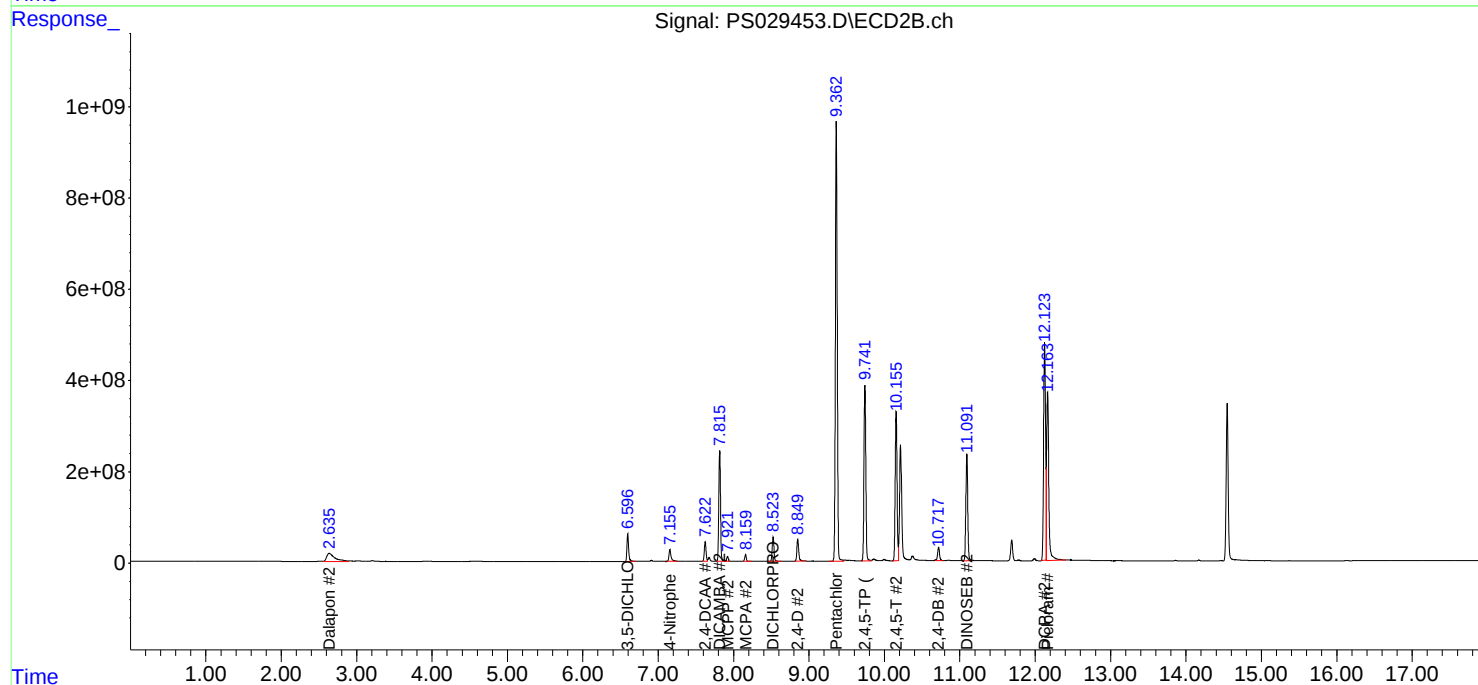
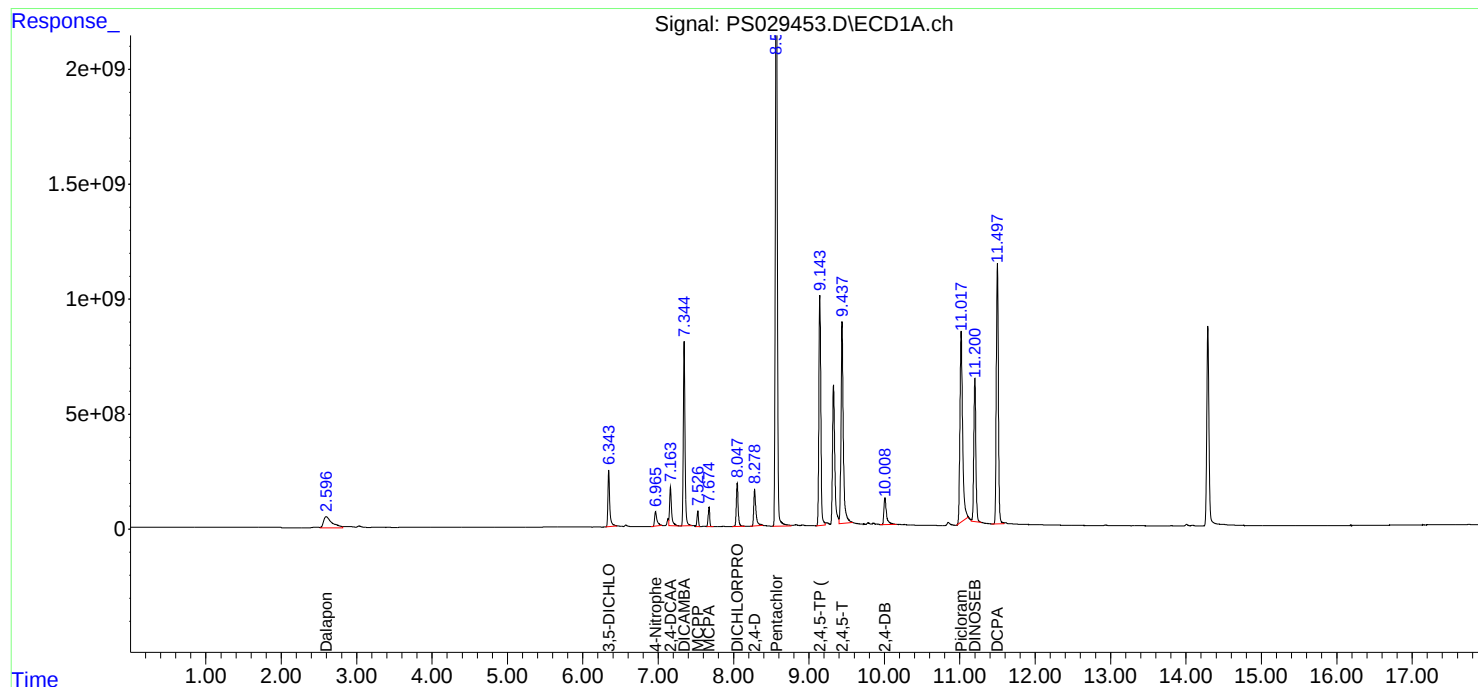
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

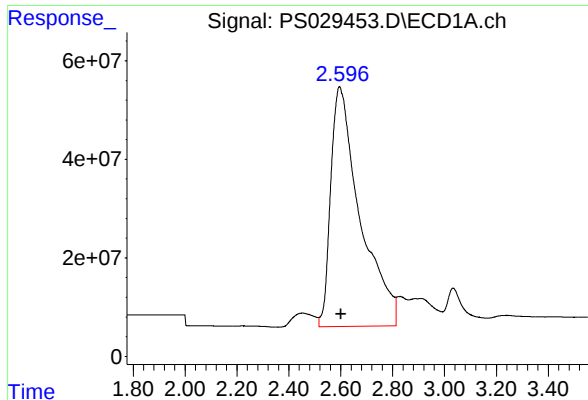
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029453.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 10:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 01:35:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

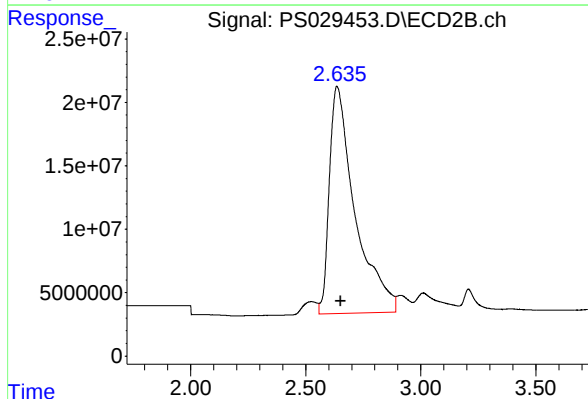




#1 Dalapon

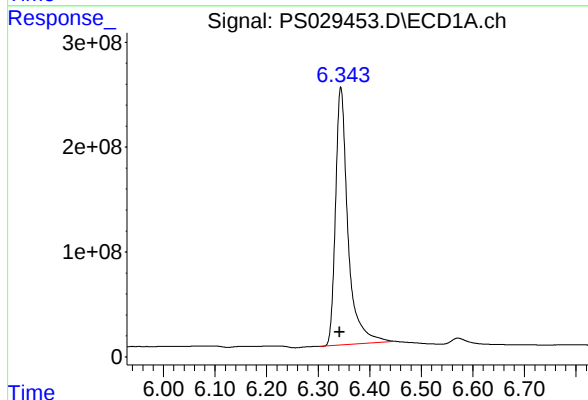
R.T.: 2.596 min
Delta R.T.: -0.004 min
Response: 3810615976
Conc: 690.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



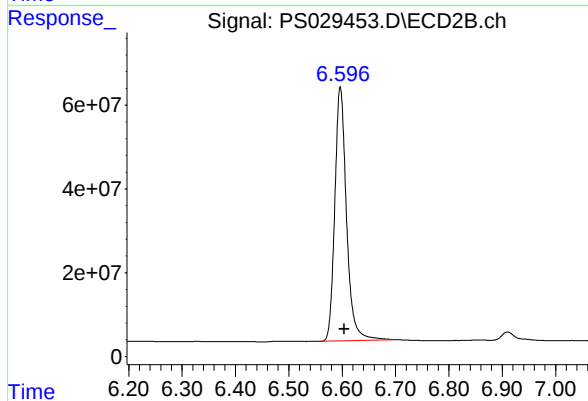
#1 Dalapon

R.T.: 2.635 min
Delta R.T.: -0.016 min
Response: 1388400513
Conc: 655.80 ng/ml



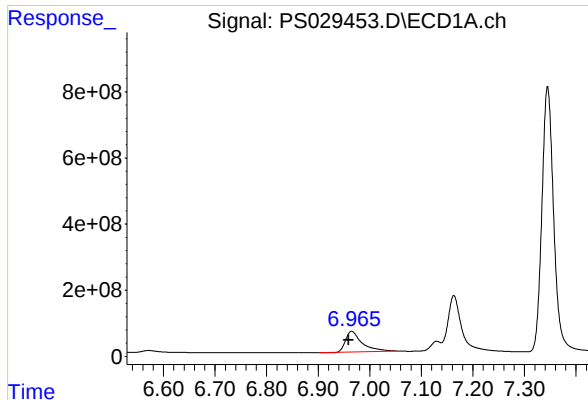
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.344 min
Delta R.T.: 0.002 min
Response: 4126666914
Conc: 705.28 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

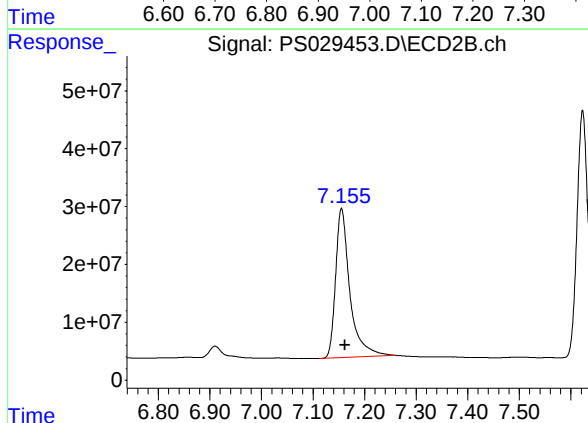
R.T.: 6.597 min
Delta R.T.: -0.008 min
Response: 923930316
Conc: 652.44 ng/ml



#3 4-Nitrophenol

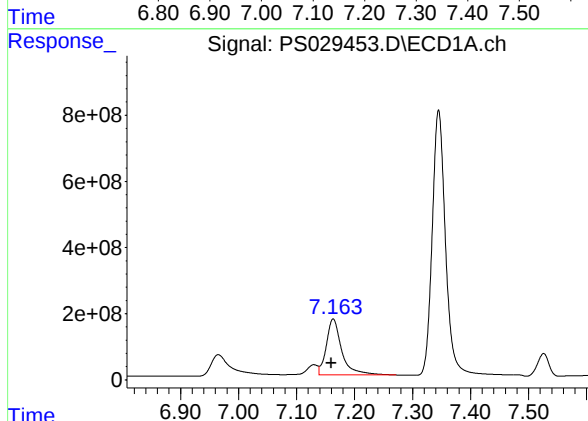
R.T.: 6.965 min
Delta R.T.: 0.007 min
Response: 1365163013
Conc: 583.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



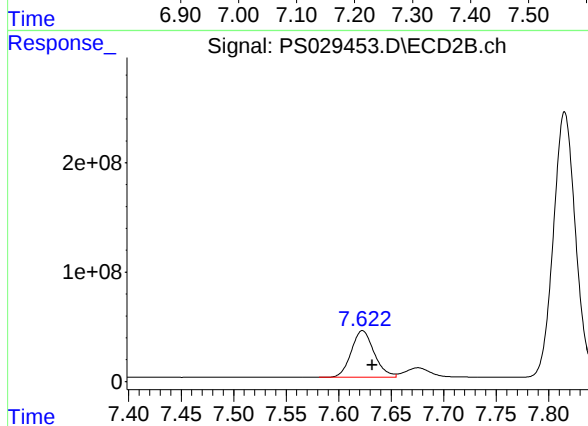
#3 4-Nitrophenol

R.T.: 7.155 min
Delta R.T.: -0.007 min
Response: 495909211
Conc: 621.79 ng/ml



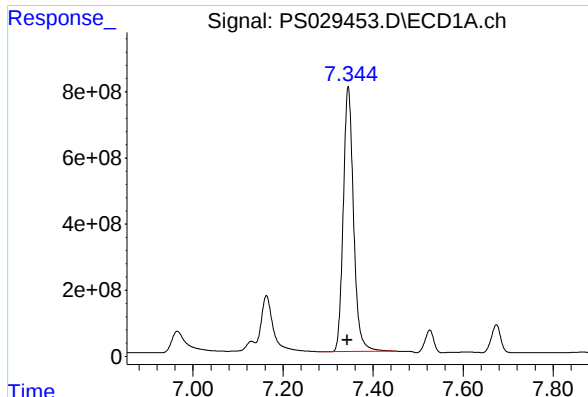
#4 2,4-DCAA

R.T.: 7.163 min
Delta R.T.: 0.003 min
Response: 3090714659
Conc: 750.07 ng/ml



#4 2,4-DCAA

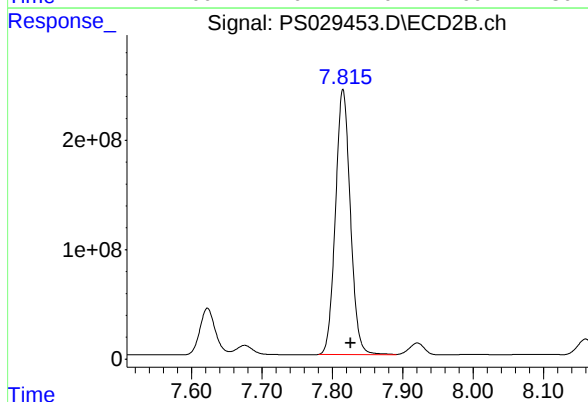
R.T.: 7.623 min
Delta R.T.: -0.009 min
Response: 650599095
Conc: 691.88 ng/ml



#5 DICAMBA

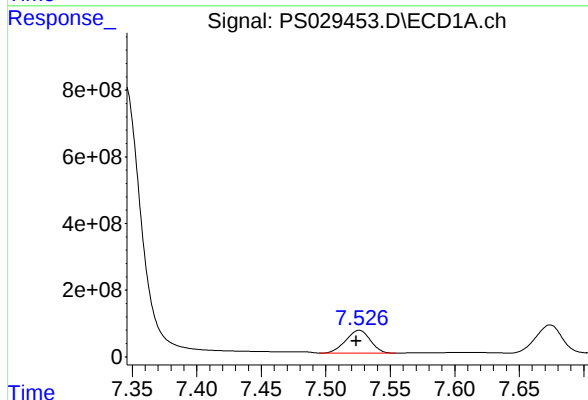
R.T.: 7.345 min
Delta R.T.: 0.002 min
Response: 12678977882
Conc: 730.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



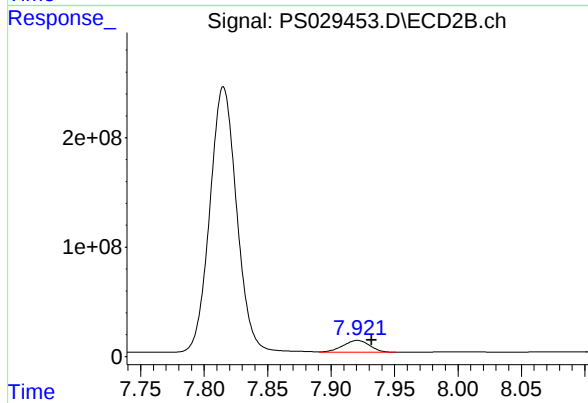
#5 DICAMBA

R.T.: 7.815 min
Delta R.T.: -0.011 min
Response: 3560186114
Conc: 690.90 ng/ml



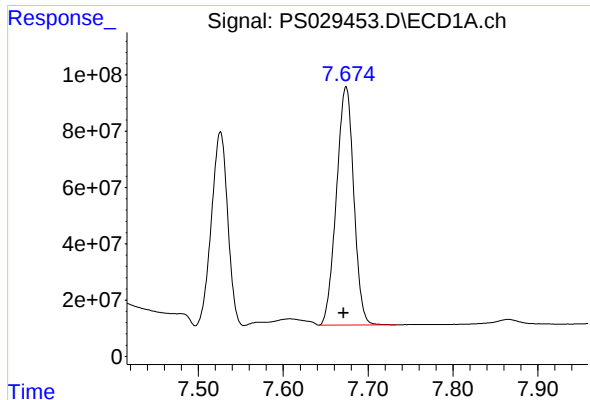
#6 MCPP

R.T.: 7.526 min
Delta R.T.: 0.003 min
Response: 912360091
Conc: 74.02 ug/ml



#6 MCPP

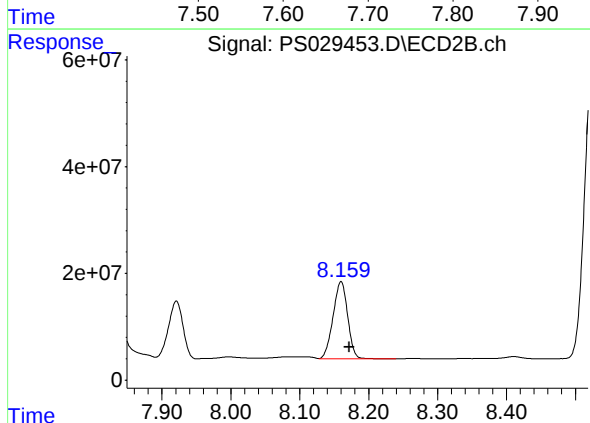
R.T.: 7.921 min
Delta R.T.: -0.011 min
Response: 155958442
Conc: 66.67 ug/ml



#7 MCPA

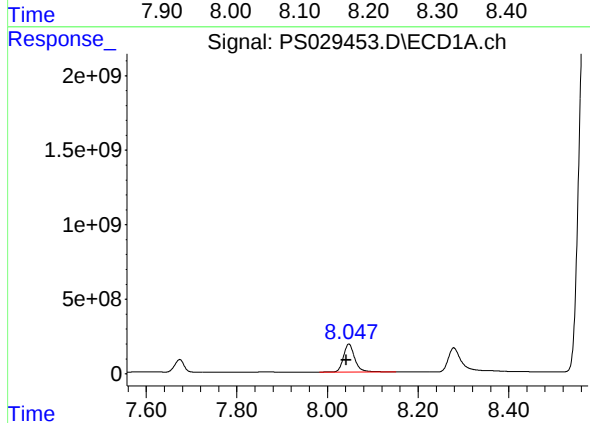
R.T.: 7.674 min
Delta R.T.: 0.003 min
Response: 1204412071
Conc: 71.08 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



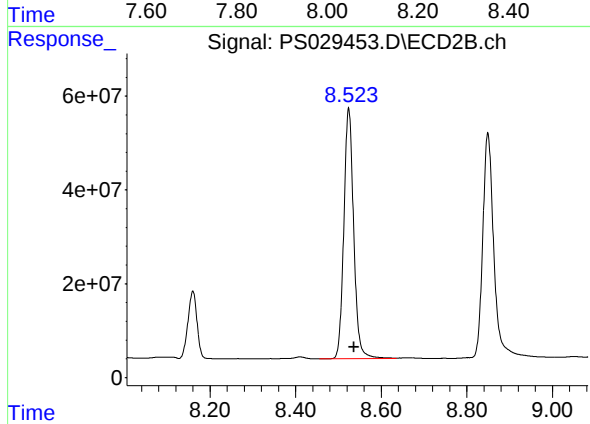
#7 MCPA

R.T.: 8.160 min
Delta R.T.: -0.012 min
Response: 213380632
Conc: 66.90 ug/ml



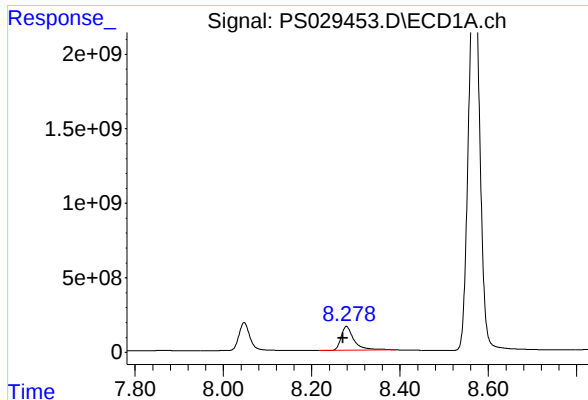
#8 DICHLORPROP

R.T.: 8.047 min
Delta R.T.: 0.005 min
Response: 3243471938
Conc: 705.65 ng/ml



#8 DICHLORPROP

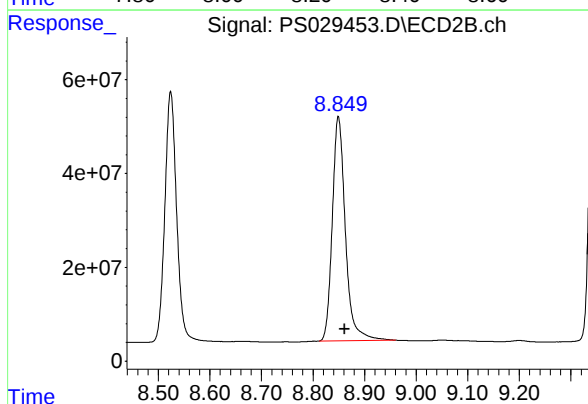
R.T.: 8.524 min
Delta R.T.: -0.012 min
Response: 853875126
Conc: 667.74 ng/ml



#9 2,4-D

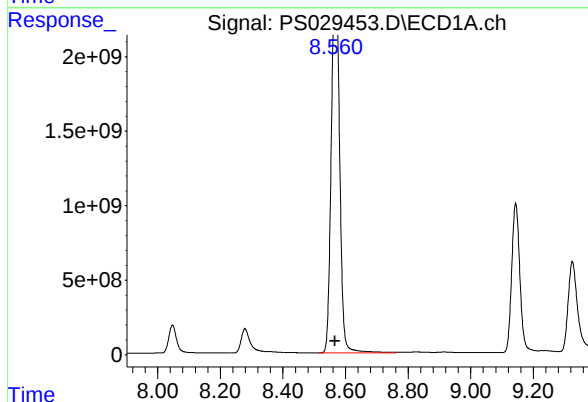
R.T.: 8.279 min
Delta R.T.: 0.007 min
Response: 3274691026
Conc: 689.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



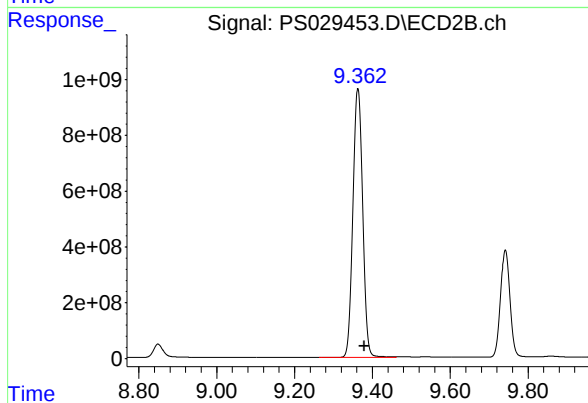
#9 2,4-D

R.T.: 8.849 min
Delta R.T.: -0.012 min
Response: 843795586
Conc: 664.46 ng/ml



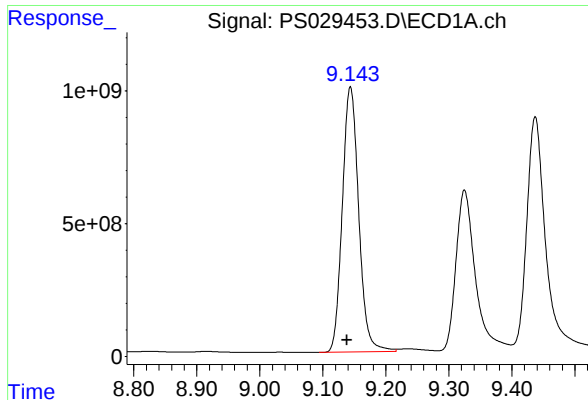
#10 Pentachlorophenol

R.T.: 8.572 min
Delta R.T.: 0.005 min
Response: 44370366758
Conc: 760.34 ng/ml



#10 Pentachlorophenol

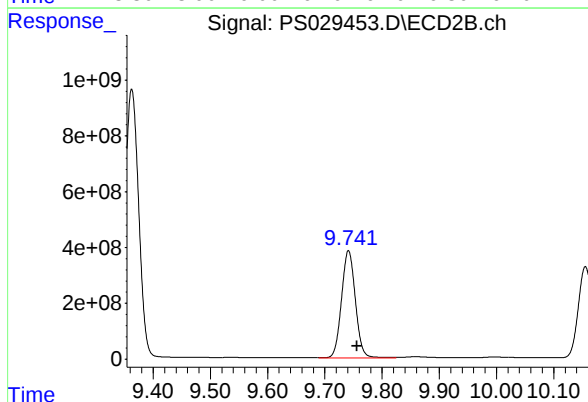
R.T.: 9.363 min
Delta R.T.: -0.016 min
Response: 16595106218
Conc: 721.13 ng/ml



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

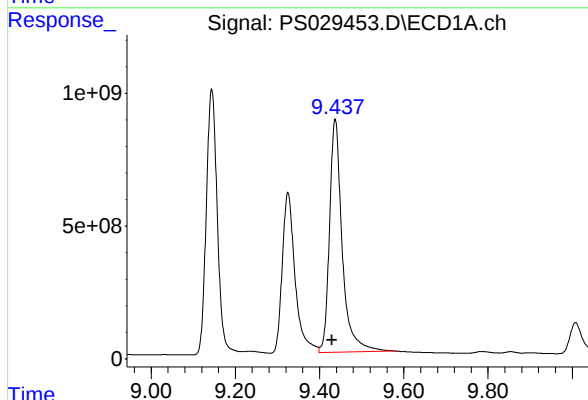
R.T.: 9.144 min
Delta R.T.: 0.005 min
Response: 18097118996
Conc: 736.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



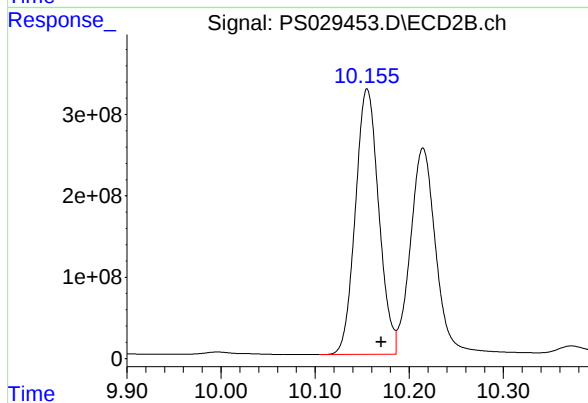
#11 2,4,5-TP (SILVEX)

R.T.: 9.741 min
Delta R.T.: -0.015 min
Response: 6478896329
Conc: 716.95 ng/ml



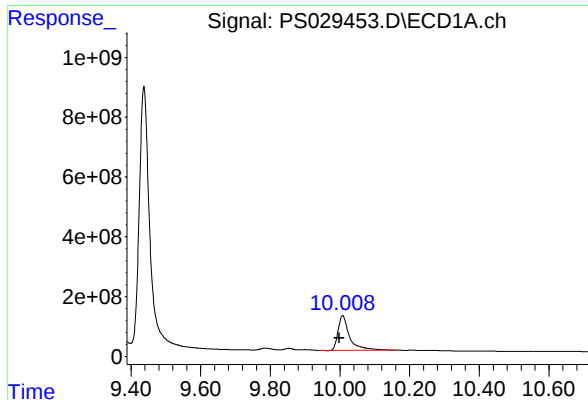
#12 2,4,5-T

R.T.: 9.437 min
Delta R.T.: 0.008 min
Response: 18394704732
Conc: 721.68 ng/ml



#12 2,4,5-T

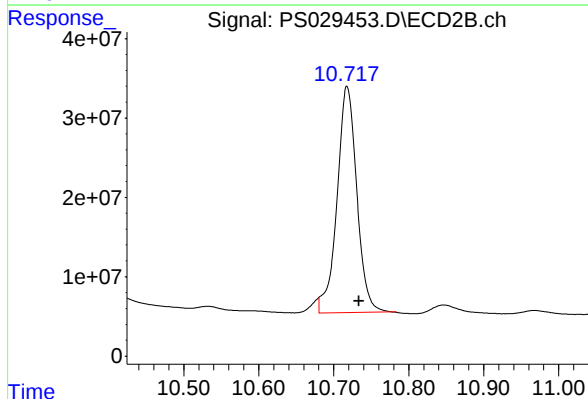
R.T.: 10.155 min
Delta R.T.: -0.015 min
Response: 5632063067
Conc: 685.98 ng/ml



#13 2,4-DB

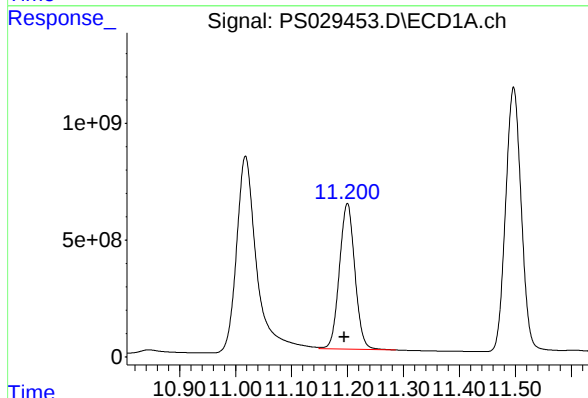
R.T.: 10.008 min
Delta R.T.: 0.010 min
Response: 2647633901
Conc: 634.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



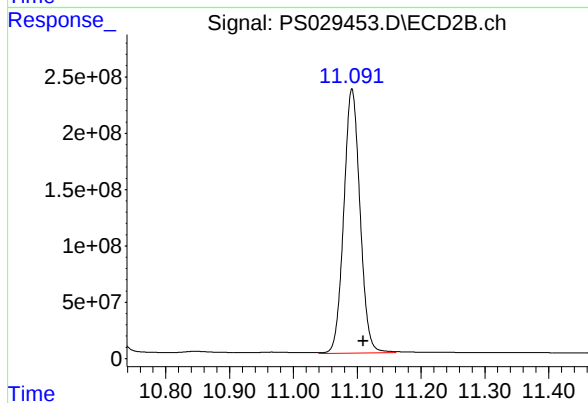
#13 2,4-DB

R.T.: 10.717 min
Delta R.T.: -0.017 min
Response: 521311225
Conc: 680.93 ng/ml m



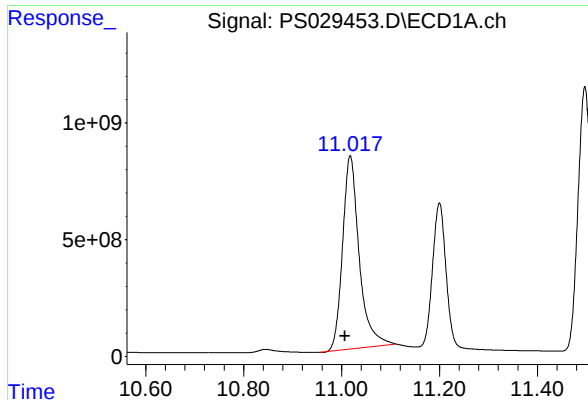
#14 DINOSEB

R.T.: 11.200 min
Delta R.T.: 0.005 min
Response: 11963227484
Conc: 719.34 ng/ml m



#14 DINOSEB

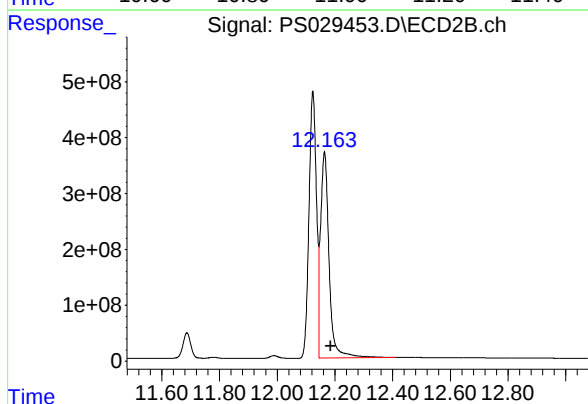
R.T.: 11.091 min
Delta R.T.: -0.018 min
Response: 4141199566
Conc: 683.19 ng/ml m



#15 Picloram

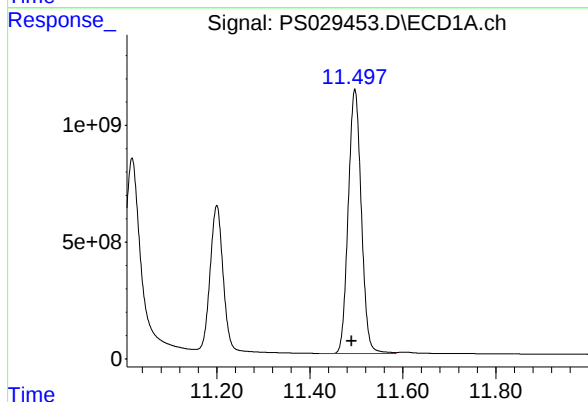
R.T.: 11.018 min
Delta R.T.: 0.011 min
Response: 19535464855
Conc: 639.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



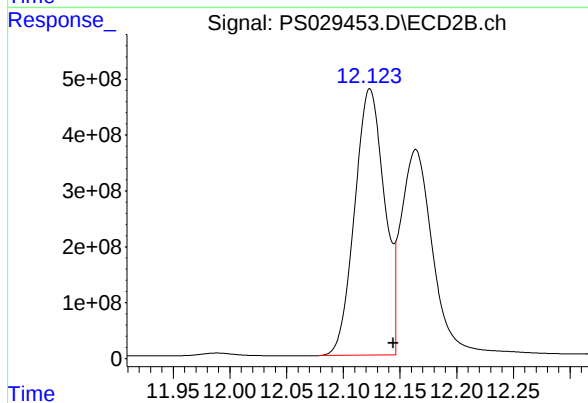
#15 Picloram

R.T.: 12.164 min
Delta R.T.: -0.021 min
Response: 7553558527
Conc: 653.28 ng/ml



#16 DCPA

R.T.: 11.497 min
Delta R.T.: 0.007 min
Response: 22021791551
Conc: 733.97 ng/ml



#16 DCPA

R.T.: 12.123 min
Delta R.T.: -0.021 min
Response: 8799292089
Conc: 743.40 ng/ml m



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Continuing Calib Date: 03/19/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 19:57 Initial Calibration Time(s): 19:56 21:32

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.13	9.14	9.04	9.24	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Continuing Calib Date: 03/19/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 19:57 Initial Calibration Time(s): 19:56 21:32

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.60	7.63	7.53	7.73	0.03
2,4-D	8.83	8.86	8.76	8.96	0.03
2,4,5-TP(Silvex)	9.72	9.76	9.66	9.86	0.04



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL02 Date Analyzed: 03/19/2025

Lab Sample No.: HSTDCCC750 Data File : PS029459.D Time Analyzed: 19:57

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.133	9.038	9.238	752.960	712.500	5.7
2,4-D	8.270	8.171	8.371	716.180	705.000	1.6
2,4-DCAA	7.157	7.060	7.260	777.210	750.000	3.6



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL02 Date Analyzed: 03/19/2025

Lab Sample No.: HSTDCCC750 Data File : PS029459.D Time Analyzed: 19:57

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.717	9.656	9.856	728.590	712.500	2.3
2,4-D	8.827	8.761	8.961	682.290	705.000	-3.2
2,4-DCAA	7.604	7.532	7.732	702.510	750.000	-6.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
 Data File : PS029459.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 19:57
 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: Mar 20 06:51:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.157	7.604	3202.6E6	660.6E6	777.215	702.506m
Target Compounds							
1) T	Dalapon	2.600	2.637	3785.2E6	1384.9E6	685.682	654.125
2) T	3,5-DICHL...	6.339	6.582	4273.3E6	960.0E6	730.341	677.912m
3) T	4-Nitroph...	6.958	7.139	1449.0E6	500.3E6	619.188	627.309
5) T	DICAMBA	7.338	7.796	13070.9E6	3663.0E6	752.673	710.858m
6) T	MCP	7.518	7.902	891.7E6	156.2E6	72.341	66.797
7) T	MCPA	7.666	8.140	1241.2E6	214.9E6	73.248	67.371
8) T	DICHLORPROP	8.039	8.503	3345.7E6	883.5E6	727.884	690.894
9) T	2,4-D	8.270	8.827	3402.2E6	866.4E6	716.181	682.292m
10) T	Pentachlo...	8.563	9.340	44667.9E6	17111.4E6	765.435	743.563
11) T	2,4,5-TP ...	9.133	9.717	18513.0E6	6584.0E6	752.961	728.589
12) T	2,4,5-T	9.426	10.130	18843.0E6	5735.2E6	739.268	698.541
13) T	2,4-DB	9.996	10.691f	2680.6E6	533.9E6	642.001	697.313m
14) T	DINOSEB	11.185	11.064	12052.9E6	4021.5E6	724.730m	663.446m
15) T	Picloram	11.004	12.134	18776.0E6	7126.9E6	614.731	616.388
16) T	DCPA	11.482	12.093	22637.8E6	8954.3E6	754.507	756.499

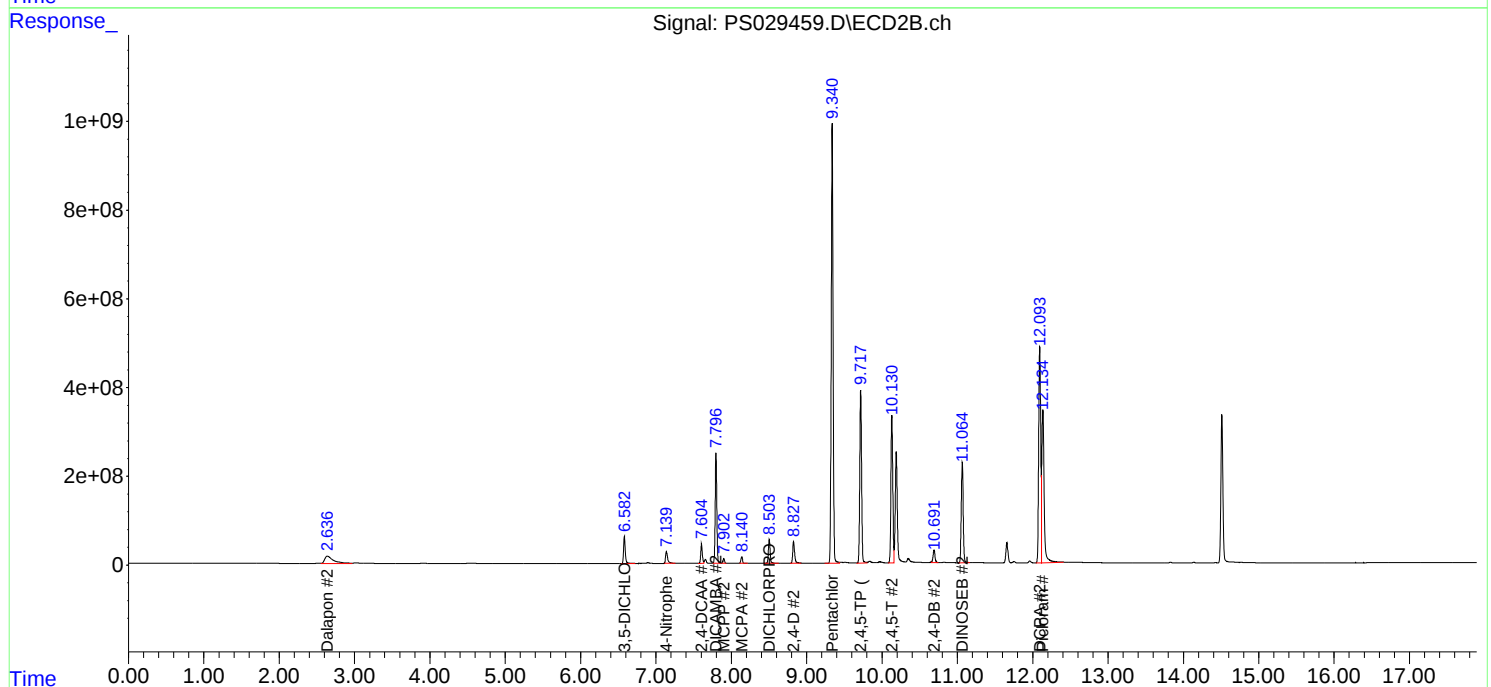
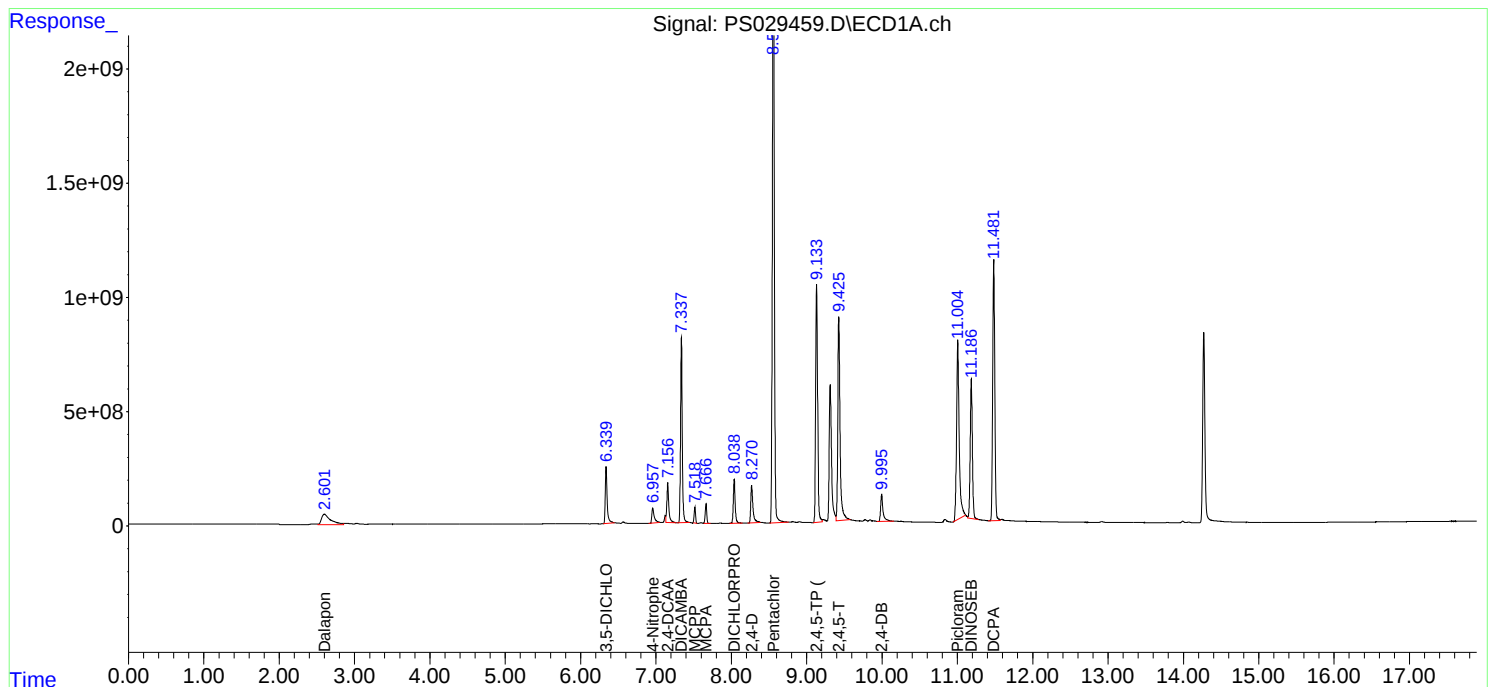
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

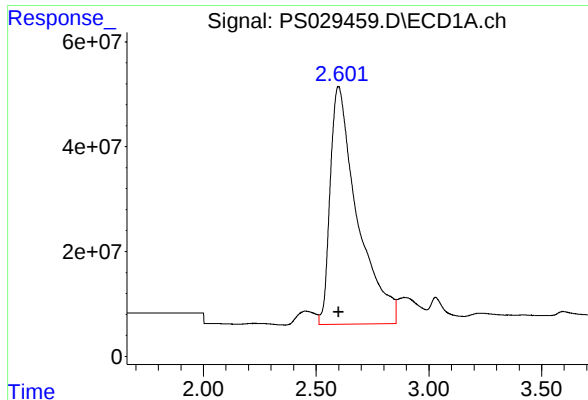
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029459.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 19:57
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 06:51:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

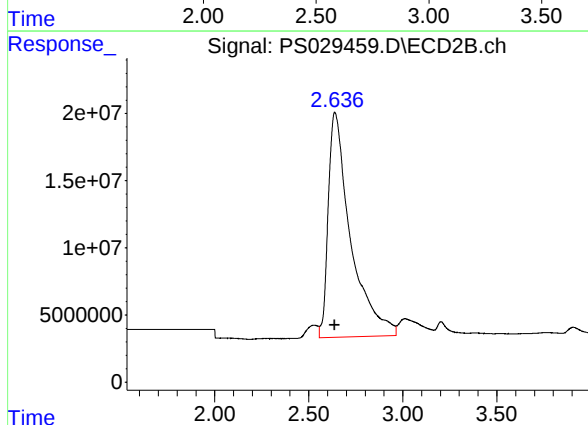




#1 Dalapon

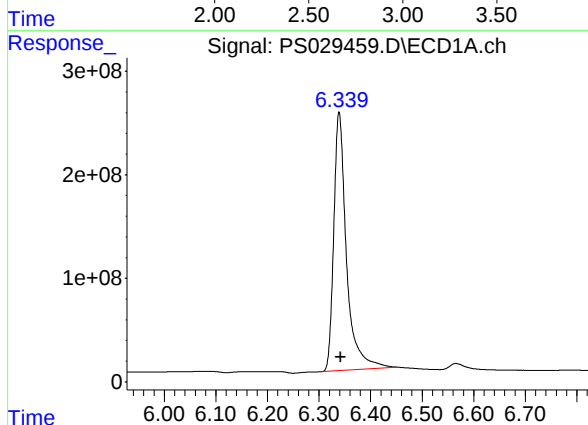
R.T.: 2.600 min
Delta R.T.: 0.000 min
Response: 3785159956
Conc: 685.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



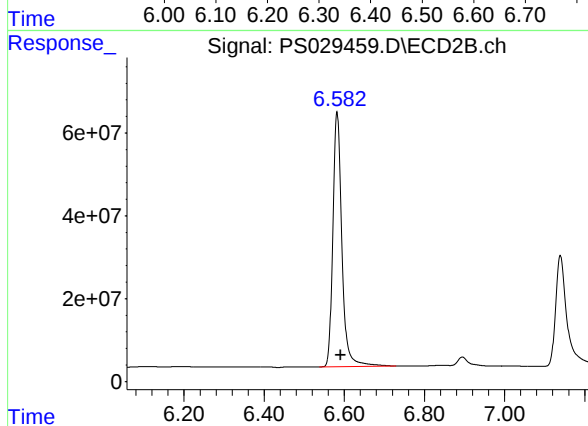
#1 Dalapon

R.T.: 2.637 min
Delta R.T.: -0.002 min
Response: 1384861584
Conc: 654.13 ng/ml



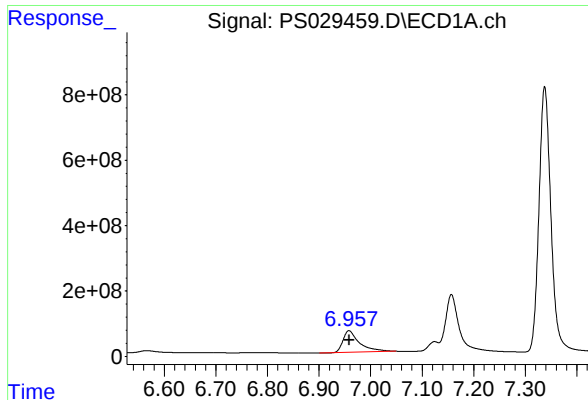
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.339 min
Delta R.T.: -0.002 min
Response: 4273310366
Conc: 730.34 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

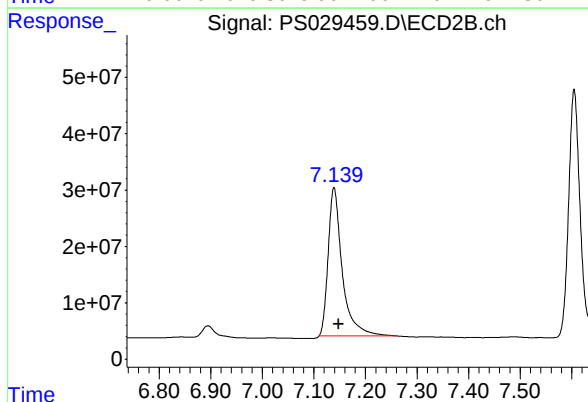
R.T.: 6.582 min
Delta R.T.: -0.009 min
Response: 960001141
Conc: 677.91 ng/ml m



#3 4-Nitrophenol

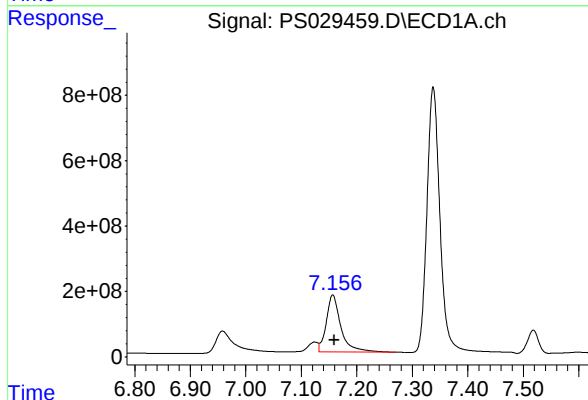
R.T.: 6.958 min
Delta R.T.: 0.000 min
Response: 1449012758
Conc: 619.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



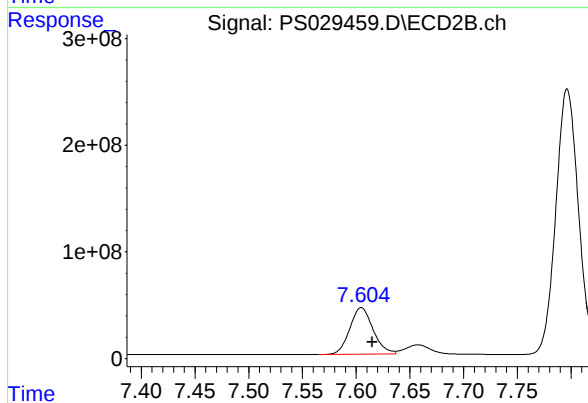
#3 4-Nitrophenol

R.T.: 7.139 min
Delta R.T.: -0.009 min
Response: 500309153
Conc: 627.31 ng/ml



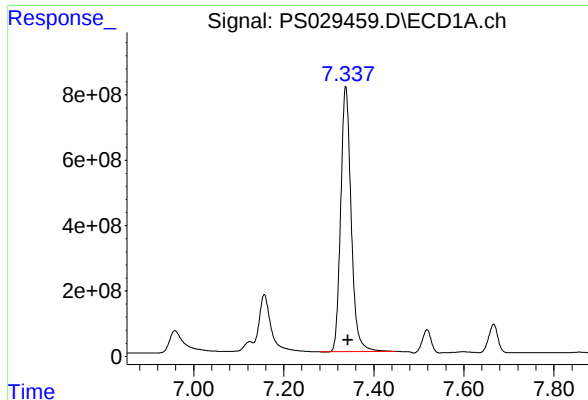
#4 2,4-DCAA

R.T.: 7.157 min
Delta R.T.: -0.003 min
Response: 3202574456
Conc: 777.21 ng/ml



#4 2,4-DCAA

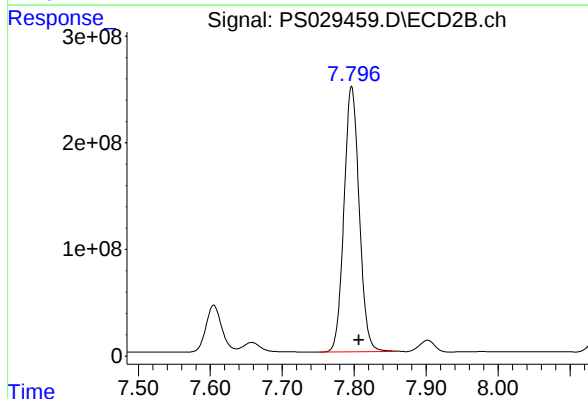
R.T.: 7.604 min
Delta R.T.: -0.011 min
Response: 660589095
Conc: 702.51 ng/ml m



#5 DICAMBA

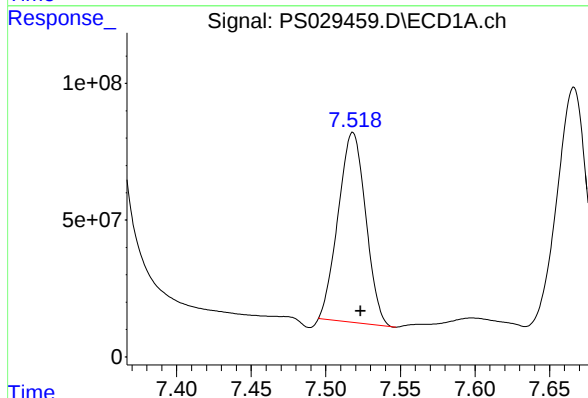
R.T.: 7.338 min
Delta R.T.: -0.005 min
Response: 13070887683
Conc: 752.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



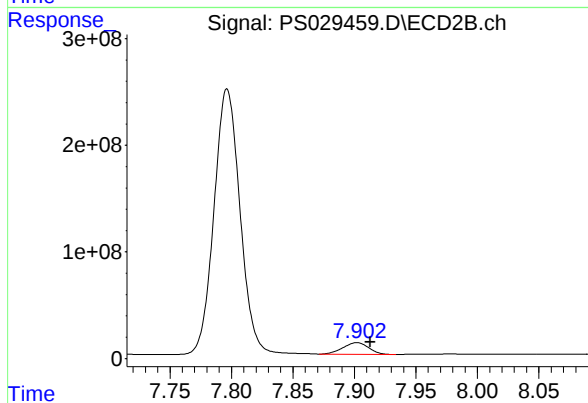
#5 DICAMBA

R.T.: 7.796 min
Delta R.T.: -0.011 min
Response: 3663027604
Conc: 710.86 ng/ml



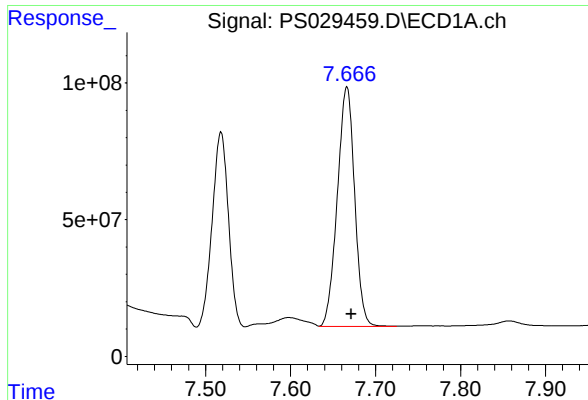
#6 MCPP

R.T.: 7.518 min
Delta R.T.: -0.005 min
Response: 891653535
Conc: 72.34 ug/ml



#6 MCPP

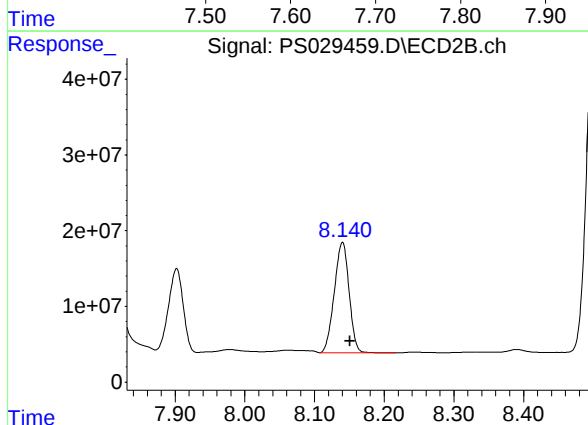
R.T.: 7.902 min
Delta R.T.: -0.011 min
Response: 156247971
Conc: 66.80 ug/ml



#7 MCPA

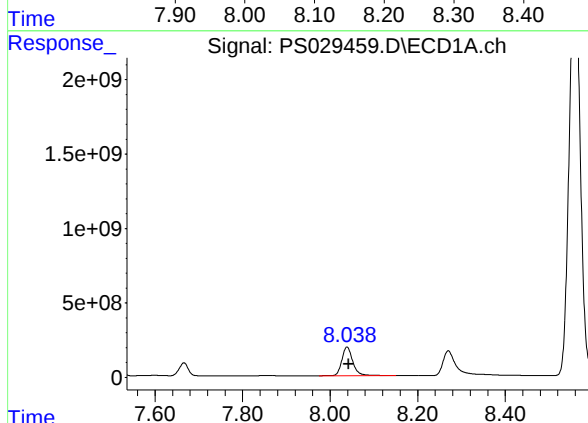
R.T.: 7.666 min
Delta R.T.: -0.005 min
Response: 1241220326
Conc: 73.25 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



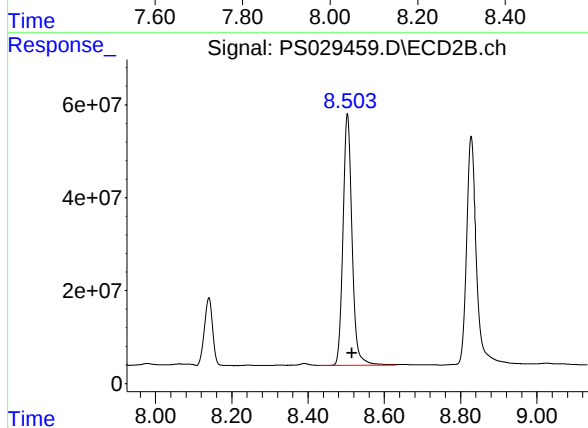
#7 MCPA

R.T.: 8.140 min
Delta R.T.: -0.011 min
Response: 214892727
Conc: 67.37 ug/ml



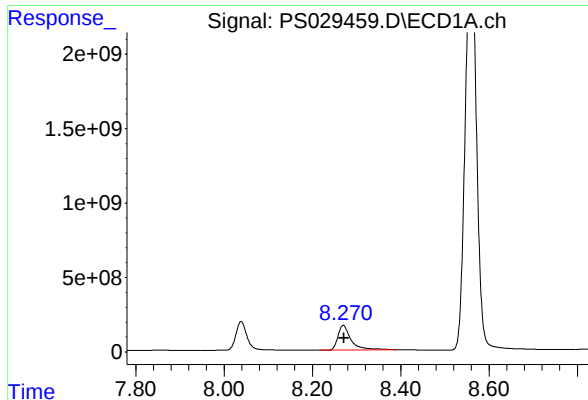
#8 DICHLORPROP

R.T.: 8.039 min
Delta R.T.: -0.003 min
Response: 3345690293
Conc: 727.88 ng/ml



#8 DICHLORPROP

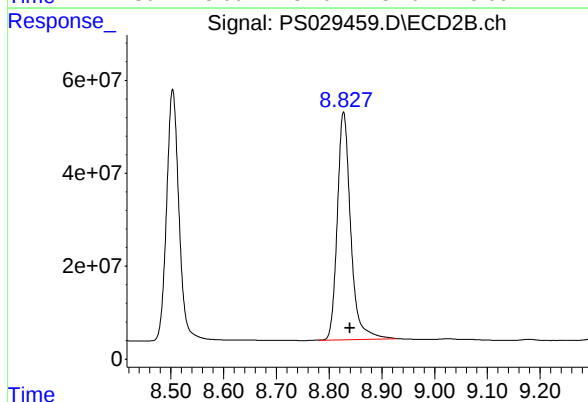
R.T.: 8.503 min
Delta R.T.: -0.012 min
Response: 883486972
Conc: 690.89 ng/ml



#9 2,4-D

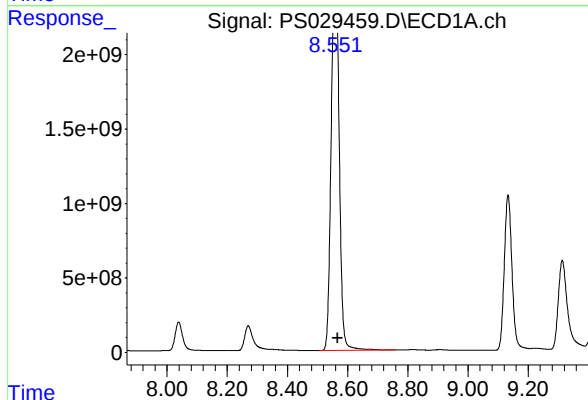
R.T.: 8.270 min
Delta R.T.: -0.002 min
Response: 340216684
Conc: 716.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



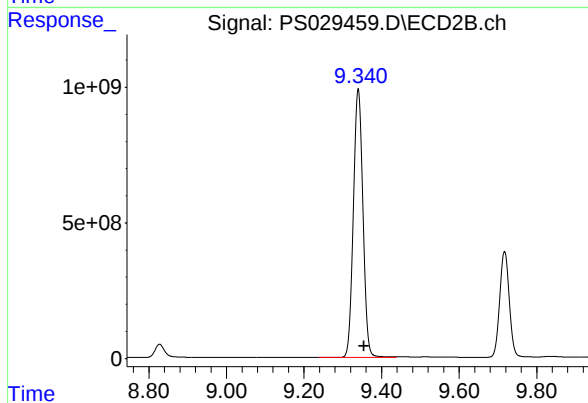
#9 2,4-D

R.T.: 8.827 min
Delta R.T.: -0.013 min
Response: 866438987
Conc: 682.29 ng/ml



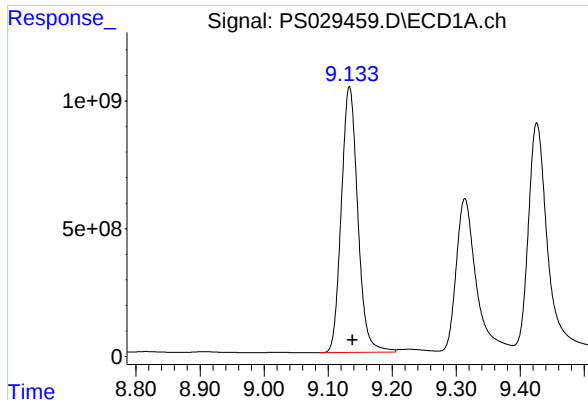
#10 Pentachlorophenol

R.T.: 8.563 min
Delta R.T.: -0.004 min
Response: 44667852858
Conc: 765.43 ng/ml



#10 Pentachlorophenol

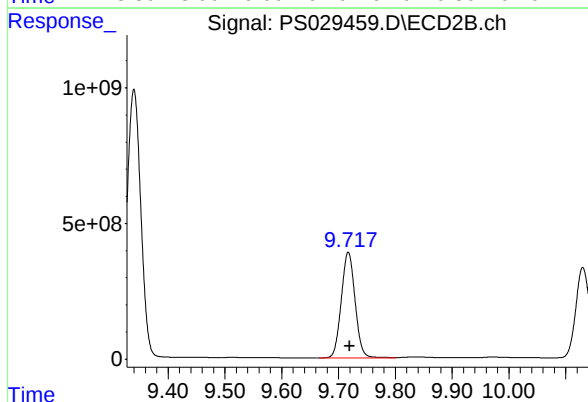
R.T.: 9.340 min
Delta R.T.: -0.014 min
Response: 17111368309
Conc: 743.56 ng/ml



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

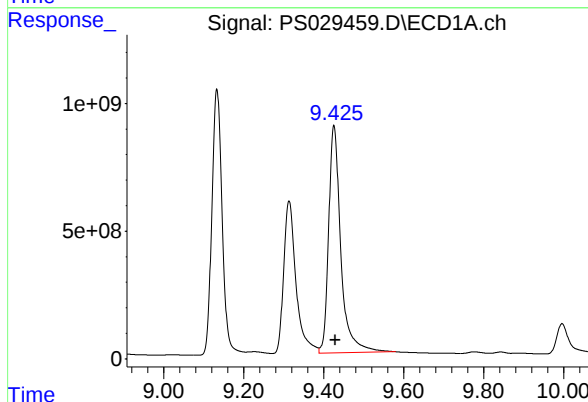
R.T.: 9.133 min
Delta R.T.: -0.005 min
Response: 18513003224
Conc: 752.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



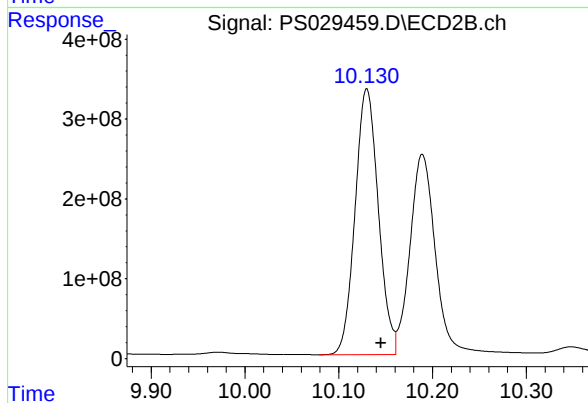
#11 2,4,5-TP (SILVEX)

R.T.: 9.717 min
Delta R.T.: -0.003 min
Response: 6584042366
Conc: 728.59 ng/ml



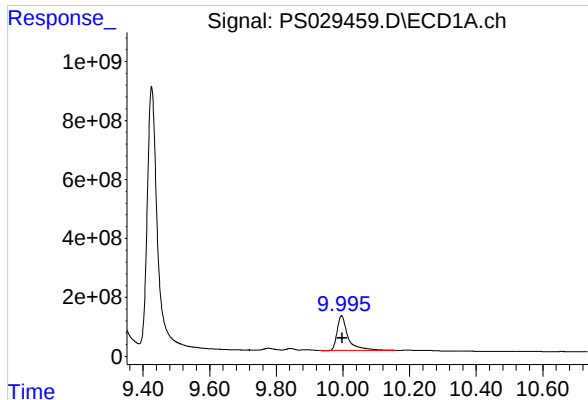
#12 2,4,5-T

R.T.: 9.426 min
Delta R.T.: -0.004 min
Response: 18842979687
Conc: 739.27 ng/ml



#12 2,4,5-T

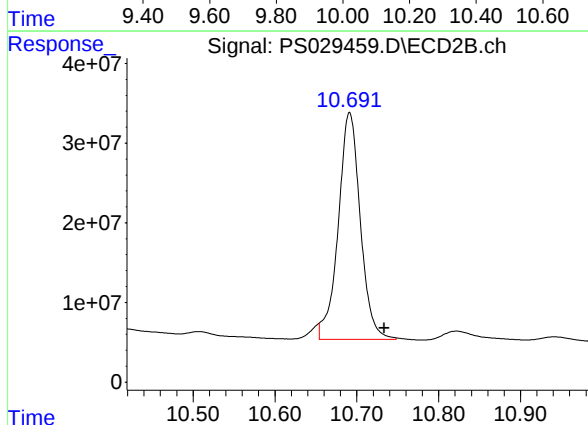
R.T.: 10.130 min
Delta R.T.: -0.015 min
Response: 5735220806
Conc: 698.54 ng/ml



#13 2,4-DB

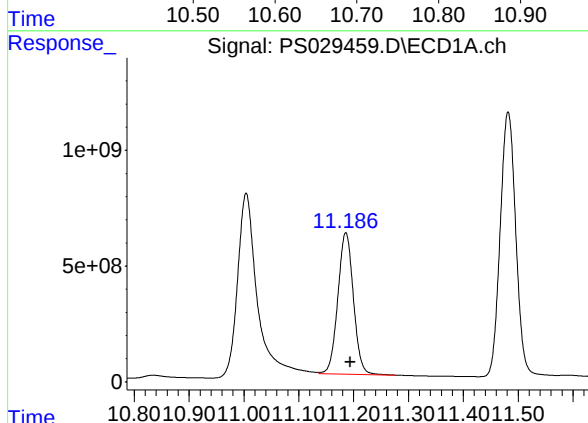
R.T.: 9.996 min
Delta R.T.: -0.003 min
Response: 2680631011
Conc: 642.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



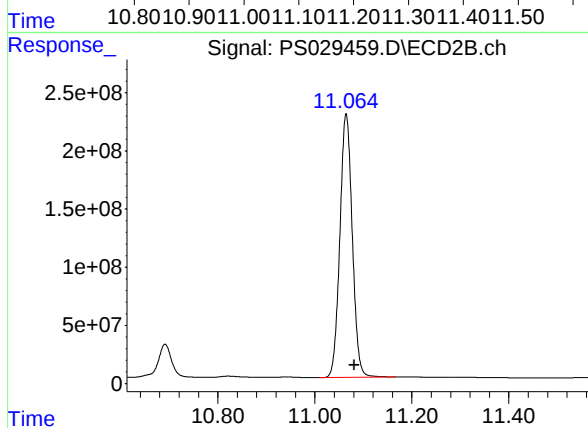
#13 2,4-DB

R.T.: 10.691 min
Delta R.T.: -0.043 min
Response: 533856726
Conc: 697.31 ng/ml



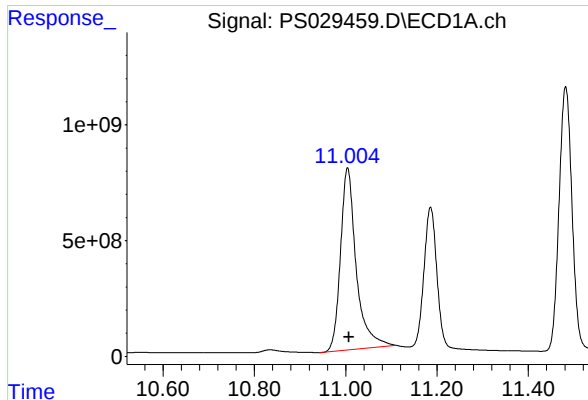
#14 DINOSEB

R.T.: 11.185 min
Delta R.T.: -0.009 min
Response: 12052859149
Conc: 724.73 ng/ml



#14 DINOSEB

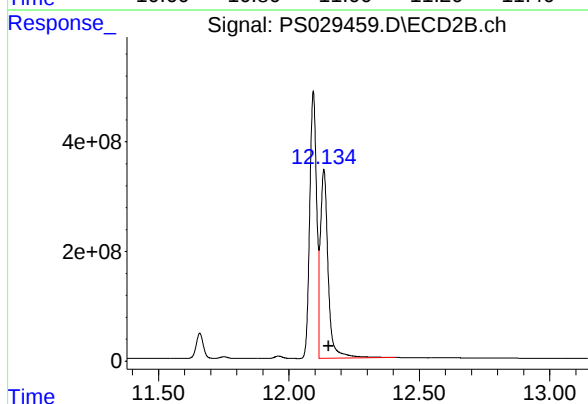
R.T.: 11.064 min
Delta R.T.: -0.017 min
Response: 4021492043
Conc: 663.45 ng/ml



#15 Picloram

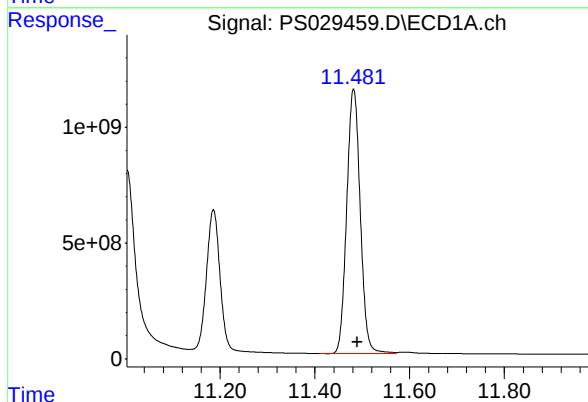
R.T.: 11.004 min
Delta R.T.: -0.003 min
Response: 18776019912
Conc: 614.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



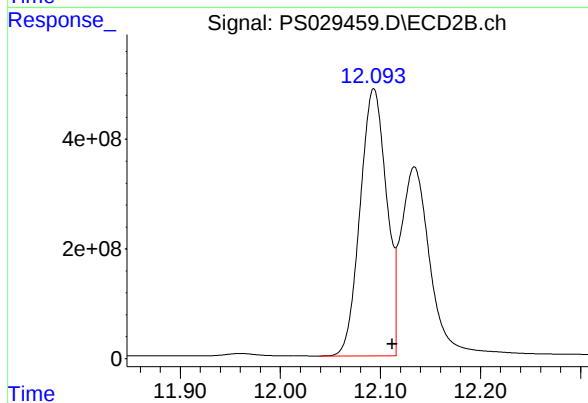
#15 Picloram

R.T.: 12.134 min
Delta R.T.: -0.019 min
Response: 7126939858
Conc: 616.39 ng/ml



#16 DCPA

R.T.: 11.482 min
Delta R.T.: -0.008 min
Response: 22637838169
Conc: 754.51 ng/ml



#16 DCPA

R.T.: 12.093 min
Delta R.T.: -0.019 min
Response: 8954345553
Conc: 756.50 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Continuing Calib Date: 03/20/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 00:21 Initial Calibration Time(s): 19:56 21:32

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.13	9.14	9.04	9.24	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Continuing Calib Date: 03/20/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 00:21 Initial Calibration Time(s): 19:56 21:32

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.60	7.63	7.53	7.73	0.03
2,4-D	8.82	8.86	8.76	8.96	0.04
2,4,5-TP(Silvex)	9.71	9.76	9.66	9.86	0.05



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL03 Date Analyzed: 03/20/2025

Lab Sample No.: HSTDCCC750 Data File : PS029468.D Time Analyzed: 00:21

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.134	9.038	9.238	760.220	712.500	6.7
2,4-D	8.270	8.171	8.371	724.230	705.000	2.7
2,4-DCAA	7.157	7.060	7.260	787.230	750.000	5.0



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL03 Date Analyzed: 03/20/2025

Lab Sample No.: HSTDCCC750 Data File : PS029468.D Time Analyzed: 00:21

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.714	9.656	9.856	744.080	712.500	4.4
2,4-D	8.824	8.761	8.961	689.410	705.000	-2.2
2,4-DCAA	7.603	7.532	7.732	725.400	750.000	-3.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
 Data File : PS029468.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Mar 2025 00:21
 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: Mar 20 07:12:58 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.157	7.603	3243.9E6	682.1E6	787.235	725.395m
Target Compounds						
1) T Dalapon	2.599	2.640	3684.6E6	1353.3E6	667.461	639.241
2) T 3,5-DICHL...	6.339	6.579	4352.3E6	985.9E6	743.848	696.168m
3) T 4-Nitroph...	6.958	7.136	1499.0E6	535.8E6	640.559	671.748m
5) T DICAMBA	7.338	7.795	13184.0E6	3745.3E6	759.186	726.818m
6) T MCPP	7.519	7.901	906.3E6	158.4E6	73.531	67.718
7) T MCPA	7.667	8.139	1259.7E6	218.1E6	74.337	68.382
8) T DICHLORPROP	8.039	8.501	3382.5E6	902.9E6	735.896	706.083
9) T 2,4-D	8.270	8.824	3440.4E6	875.5E6	724.226	689.405m
10) T Pentachlo...	8.563	9.337	44748.5E6	17458.6E6	766.816	758.652
11) T 2,4,5-TP ...	9.134	9.714	18691.5E6	6724.0E6	760.219	744.078
12) T 2,4,5-T	9.426	10.127	18949.8E6	5871.3E6	743.457	715.119
13) T 2,4-DB	9.995	10.687f	2754.3E6	533.6E6	659.653	697.008m
14) T DINOSEB	11.186	11.061	11903.7E6	3970.5E6	715.762m	655.025m
15) T Picloram	11.004	12.130	18684.7E6	7104.1E6	611.739	614.412
16) T DCPA	11.483	12.089	22924.6E6	8841.1E6	764.066	746.928m

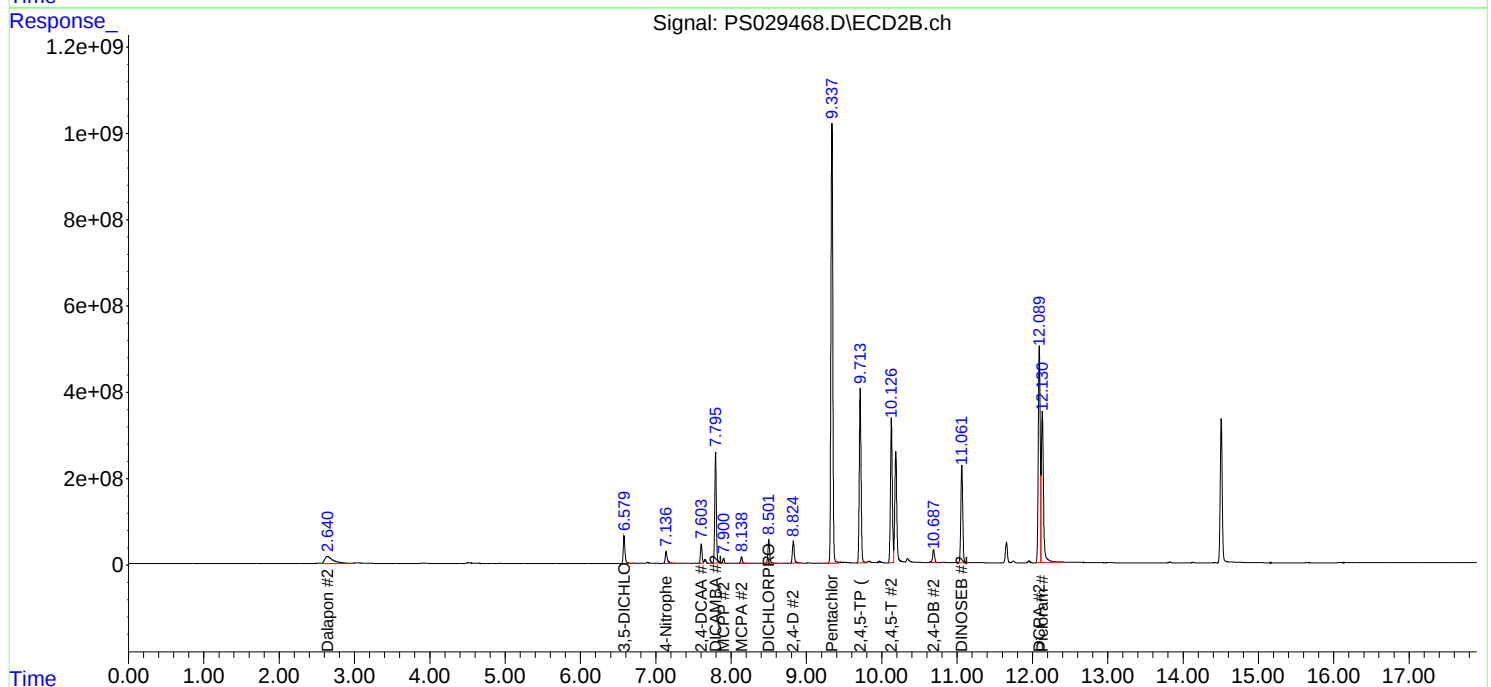
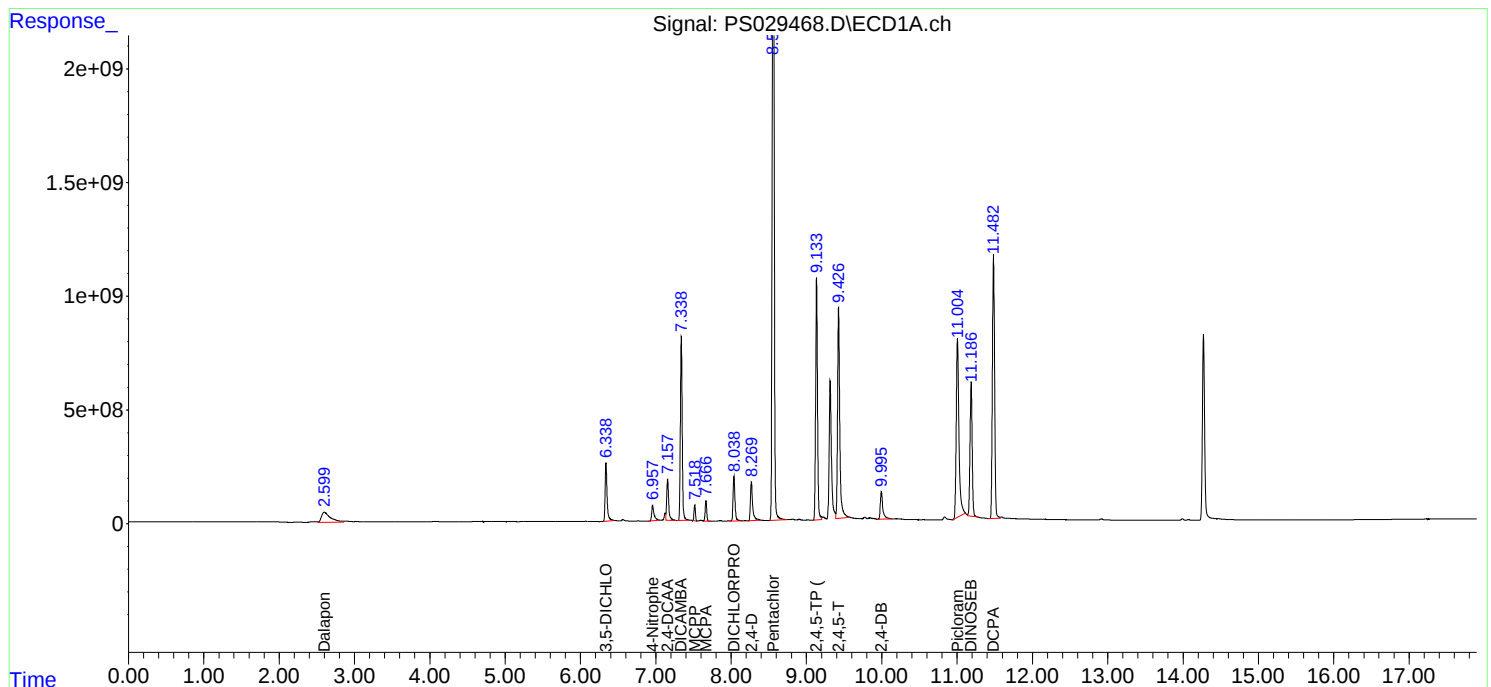
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

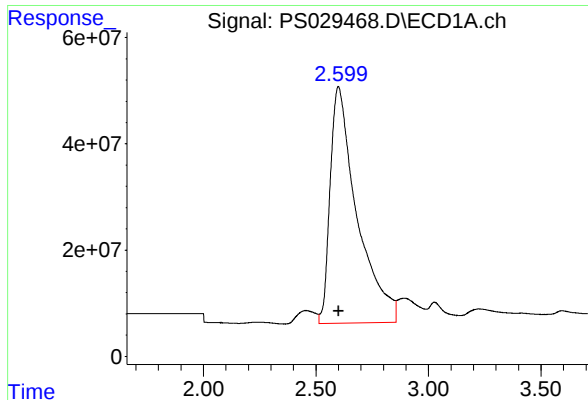
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029468.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Mar 2025 00:21
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 07:12:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

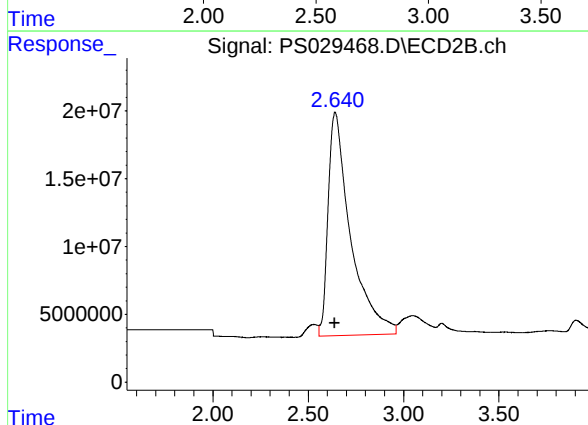




#1 Dalapon

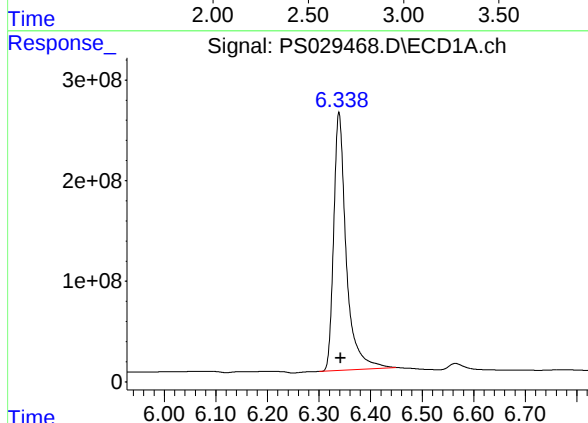
R.T.: 2.599 min
Delta R.T.: 0.000 min
Response: 3684577777
Conc: 667.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



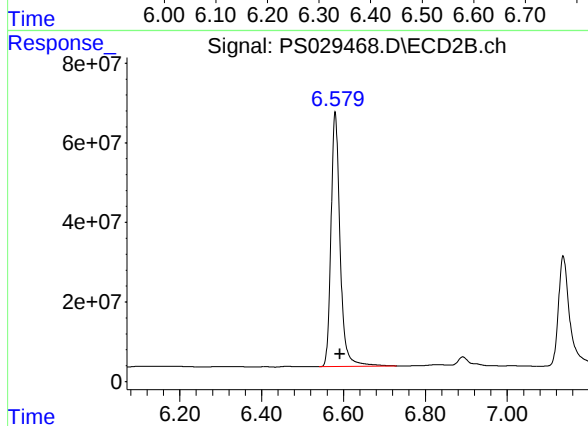
#1 Dalapon

R.T.: 2.640 min
Delta R.T.: 0.000 min
Response: 1353349269
Conc: 639.24 ng/ml



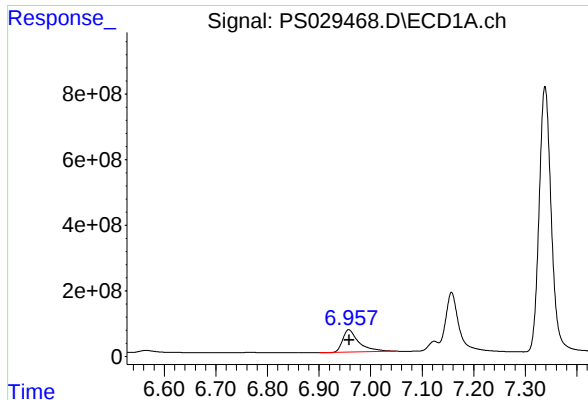
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.339 min
Delta R.T.: -0.003 min
Response: 4352345121
Conc: 743.85 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

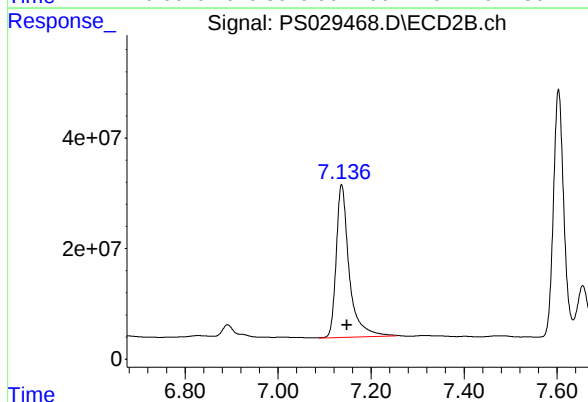
R.T.: 6.579 min
Delta R.T.: -0.012 min
Response: 985854290
Conc: 696.17 ng/ml m



#3 4-Nitrophenol

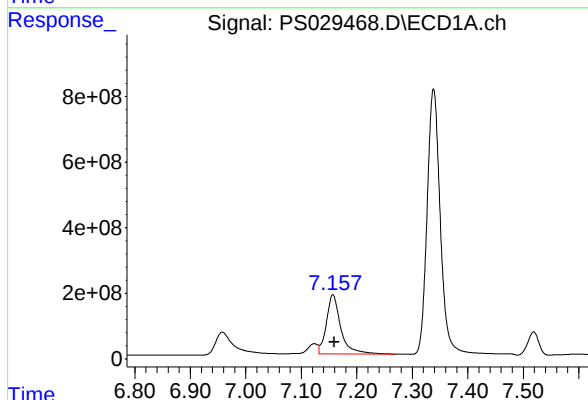
R.T.: 6.958 min
Delta R.T.: 0.000 min
Response: 1499026479
Conc: 640.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



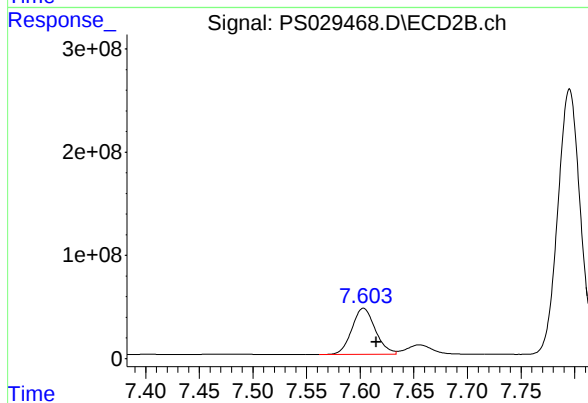
#3 4-Nitrophenol

R.T.: 7.136 min
Delta R.T.: -0.012 min
Response: 535751152
Conc: 671.75 ng/ml m



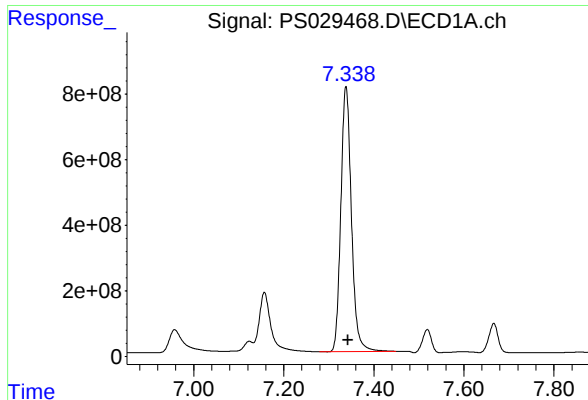
#4 2,4-DCAA

R.T.: 7.157 min
Delta R.T.: -0.003 min
Response: 3243863038
Conc: 787.23 ng/ml



#4 2,4-DCAA

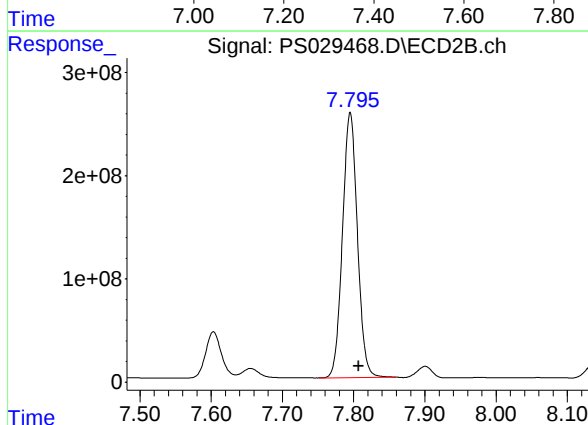
R.T.: 7.603 min
Delta R.T.: -0.012 min
Response: 682112790
Conc: 725.40 ng/ml m



#5 DICAMBA

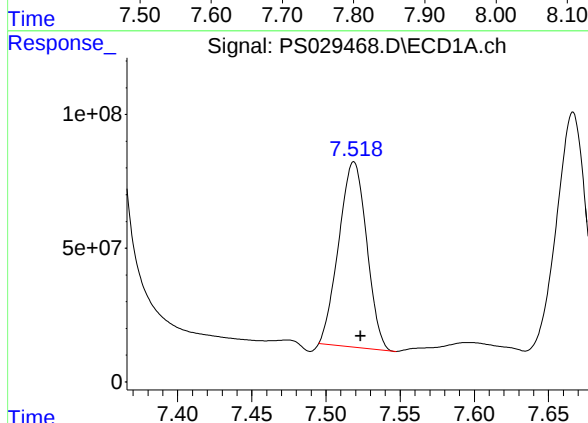
R.T.: 7.338 min
Delta R.T.: -0.004 min
Response: 13183987001
Conc: 759.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



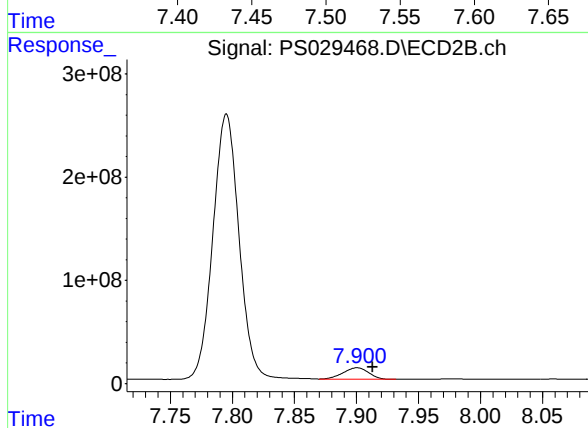
#5 DICAMBA

R.T.: 7.795 min
Delta R.T.: -0.012 min
Response: 3745271395
Conc: 726.82 ng/ml



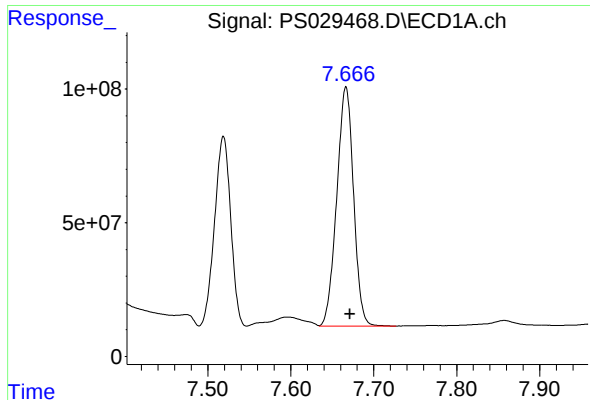
#6 MCPP

R.T.: 7.519 min
Delta R.T.: -0.005 min
Response: 906329154
Conc: 73.53 ug/ml



#6 MCPP

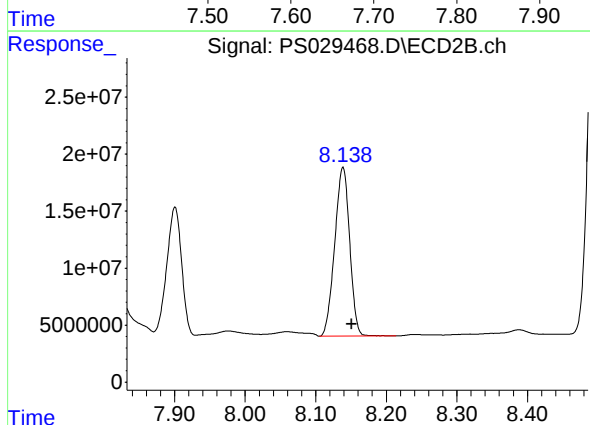
R.T.: 7.901 min
Delta R.T.: -0.012 min
Response: 158401805
Conc: 67.72 ug/ml



#7 MCPA

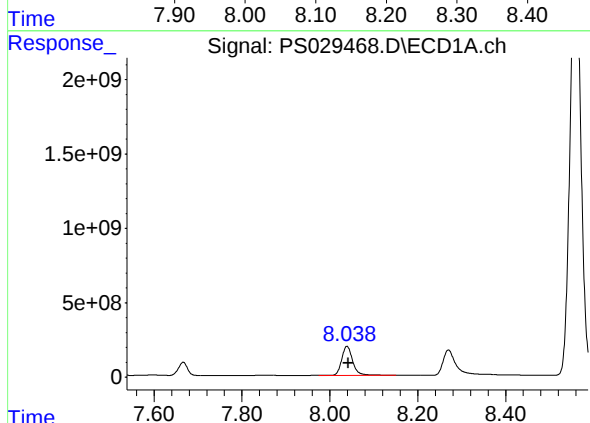
R.T.: 7.667 min
Delta R.T.: -0.005 min
Response: 1259674656
Conc: 74.34 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



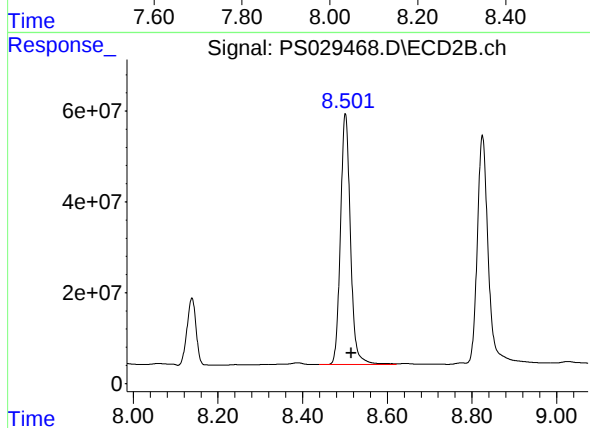
#7 MCPA

R.T.: 8.139 min
Delta R.T.: -0.012 min
Response: 218118385
Conc: 68.38 ug/ml



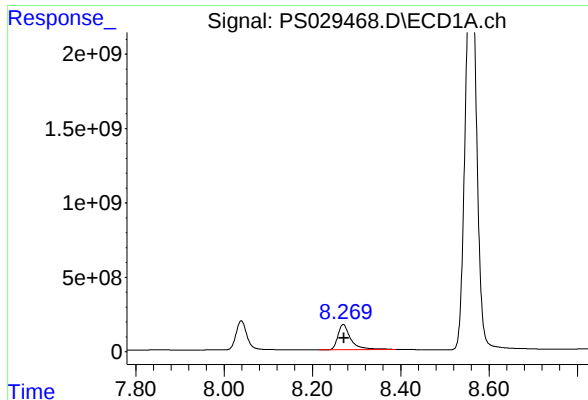
#8 DICHLORPROP

R.T.: 8.039 min
Delta R.T.: -0.003 min
Response: 3382514958
Conc: 735.90 ng/ml



#8 DICHLORPROP

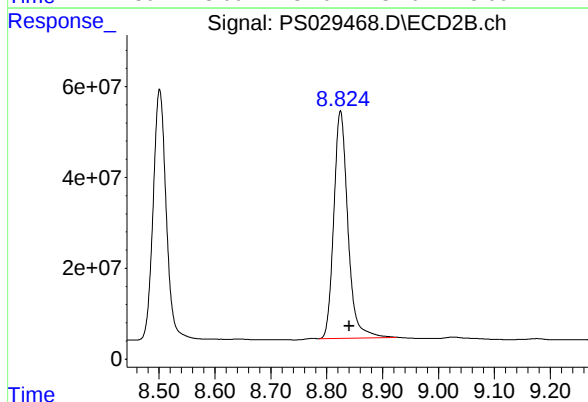
R.T.: 8.501 min
Delta R.T.: -0.014 min
Response: 902910572
Conc: 706.08 ng/ml



#9 2,4-D

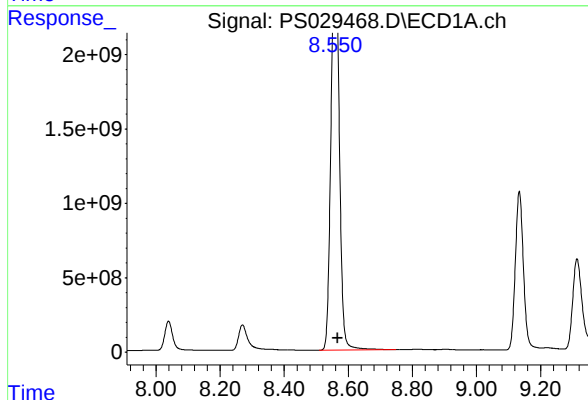
R.T.: 8.270 min
Delta R.T.: -0.002 min
Response: 3440385471
Conc: 724.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



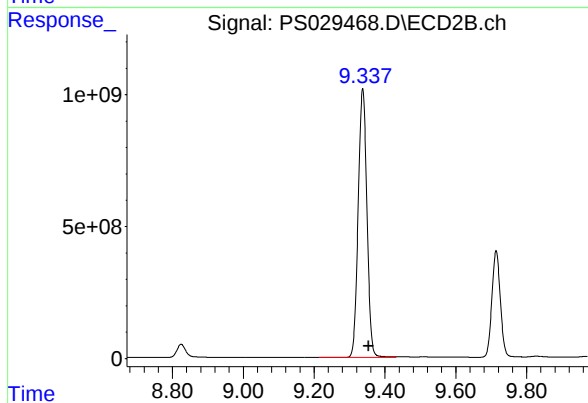
#9 2,4-D

R.T.: 8.824 min
Delta R.T.: -0.016 min
Response: 875472893
Conc: 689.41 ng/ml



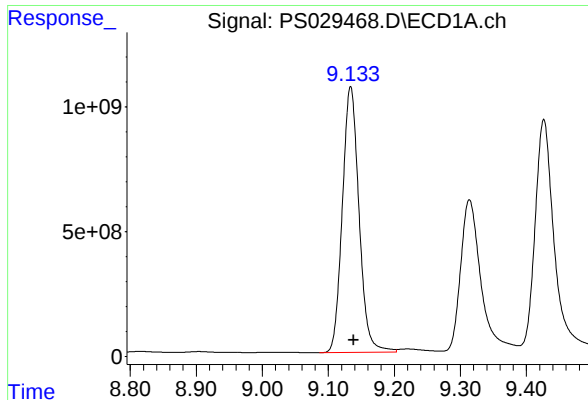
#10 Pentachlorophenol

R.T.: 8.563 min
Delta R.T.: -0.004 min
Response: 44748481303
Conc: 766.82 ng/ml



#10 Pentachlorophenol

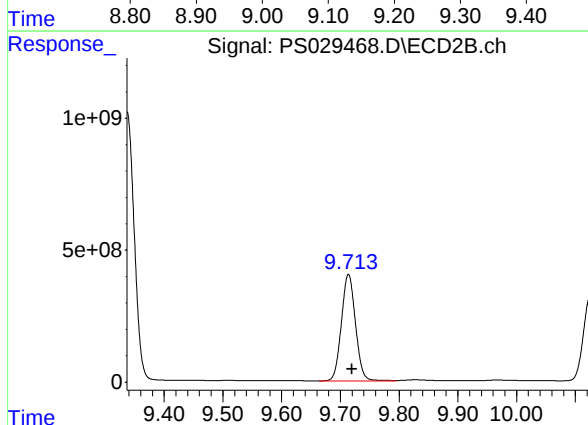
R.T.: 9.337 min
Delta R.T.: -0.017 min
Response: 17458624292
Conc: 758.65 ng/ml



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

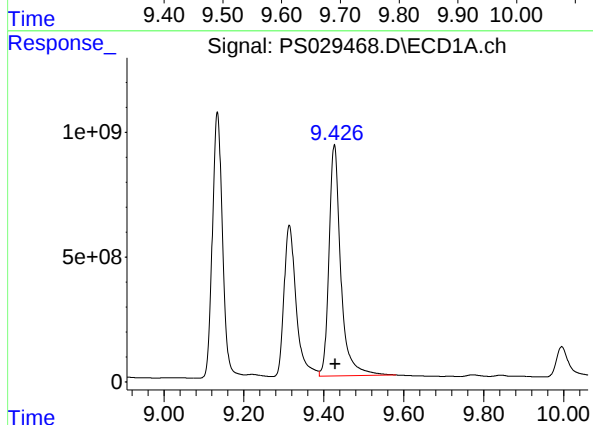
R.T.: 9.134 min
Delta R.T.: -0.005 min
Response: 18691454360
Conc: 760.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



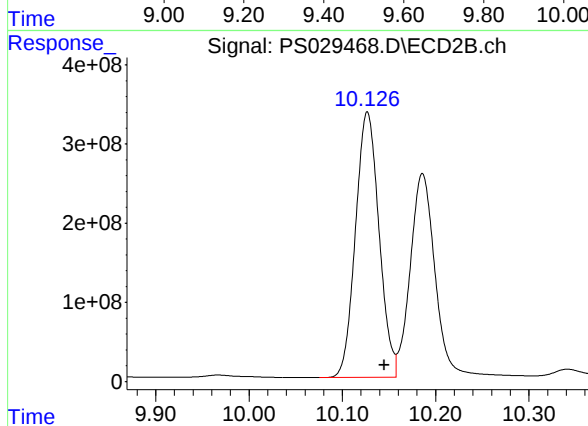
#11 2,4,5-TP (SILVEX)

R.T.: 9.714 min
Delta R.T.: -0.006 min
Response: 6724009189
Conc: 744.08 ng/ml



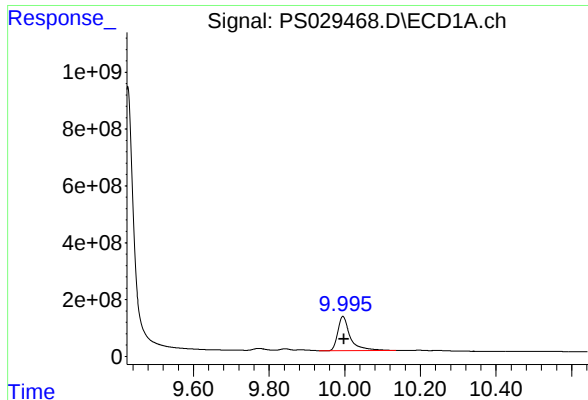
#12 2,4,5-T

R.T.: 9.426 min
Delta R.T.: -0.003 min
Response: 18949762613
Conc: 743.46 ng/ml



#12 2,4,5-T

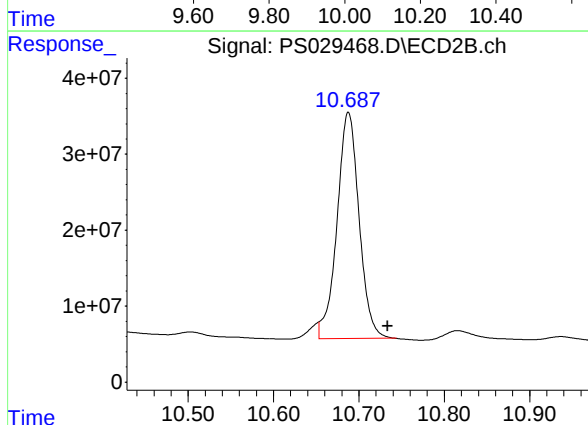
R.T.: 10.127 min
Delta R.T.: -0.018 min
Response: 5871336973
Conc: 715.12 ng/ml



#13 2,4-DB

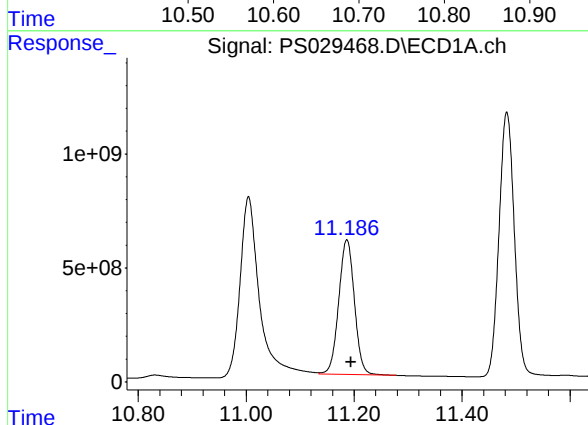
R.T.: 9.995 min
Delta R.T.: -0.003 min
Response: 2754334109
Conc: 659.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



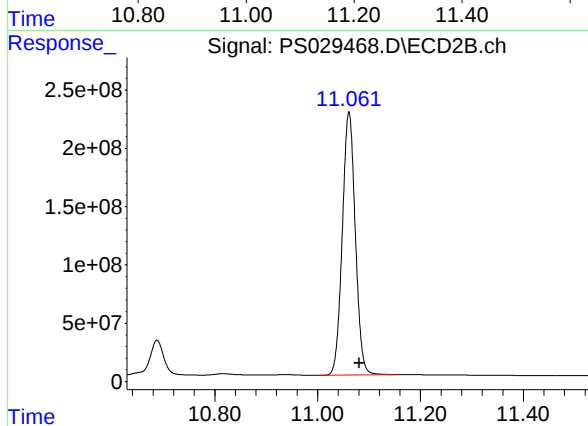
#13 2,4-DB

R.T.: 10.687 min
Delta R.T.: -0.046 min
Response: 533623250
Conc: 697.01 ng/ml m



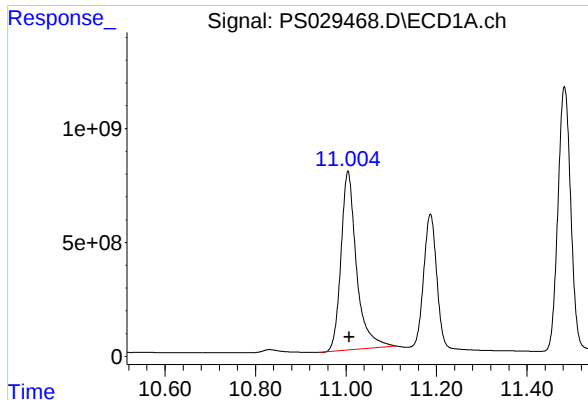
#14 DINOSEB

R.T.: 11.186 min
Delta R.T.: -0.008 min
Response: 11903709052
Conc: 715.76 ng/ml m



#14 DINOSEB

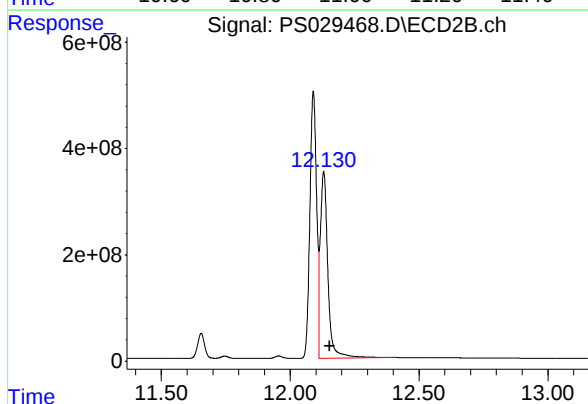
R.T.: 11.061 min
Delta R.T.: -0.020 min
Response: 3970450813
Conc: 655.03 ng/ml m



#15 Picloram

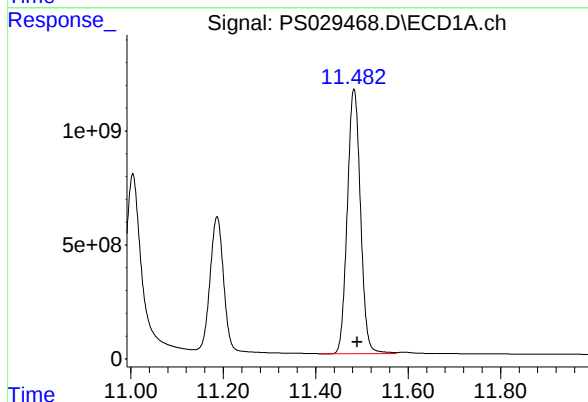
R.T.: 11.004 min
Delta R.T.: -0.002 min
Response: 18684659735
Conc: 611.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



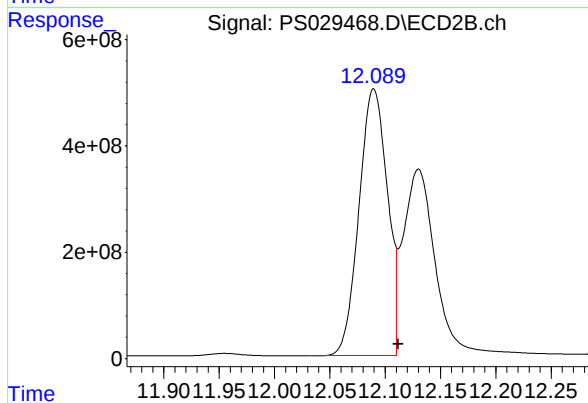
#15 Picloram

R.T.: 12.130 min
Delta R.T.: -0.023 min
Response: 7104100661
Conc: 614.41 ng/ml



#16 DCPA

R.T.: 11.483 min
Delta R.T.: -0.007 min
Response: 22924648847
Conc: 764.07 ng/ml



#16 DCPA

R.T.: 12.089 min
Delta R.T.: -0.023 min
Response: 8841053366
Conc: 746.93 ng/ml m

Analytical Sequence

Client: Weston Solutions	SDG No.: Q1569
Project: Fort Meade MD Tipton Airfield Parcel RI - 0	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 02/21/2025 02/21/2025

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	02/21/2025	19:32	PS029233.D	7.16	0.00
HSTDICC200	HSTDICC200	02/21/2025	19:56	PS029234.D	7.16	0.00
HSTDICC500	HSTDICC500	02/21/2025	20:20	PS029235.D	7.16	0.00
HSTDICC750	HSTDICC750	02/21/2025	20:44	PS029236.D	7.16	0.00
HSTDICC1000	HSTDICC1000	02/21/2025	21:08	PS029237.D	7.16	0.00
HSTDICC1500	HSTDICC1500	02/21/2025	21:32	PS029238.D	7.16	0.00
IBLK	IBLK	03/19/2025	09:14	PS029452.D	7.17	0.00
HSTDCCC750	HSTDCCC750	03/19/2025	10:02	PS029453.D	7.16	0.00
PB167214BL	PB167214BL	03/19/2025	17:58	PS029454.D	7.17	0.00
PB167214BS	PB167214BS	03/19/2025	18:21	PS029455.D	7.17	0.00
PB167133TB	PB167133TB	03/19/2025	18:45	PS029456.D	7.17	0.00
IBLK	IBLK	03/19/2025	19:33	PS029458.D	7.16	0.00
HSTDCCC750	HSTDCCC750	03/19/2025	19:57	PS029459.D	7.16	0.00
TAP-IDW-SOIL-031325-01	Q1569-02	03/19/2025	21:10	PS029460.D	7.16	0.00
TAP-IDW-SOIL-031325-01MS	Q1569-02MS	03/19/2025	21:34	PS029461.D	7.16	0.00
TAP-IDW-SOIL-031325-01MSD	Q1569-02MSD	03/19/2025	21:57	PS029462.D	7.16	0.00
TAP-IDW-SOIL-031325-02	Q1569-05	03/19/2025	22:21	PS029463.D	7.16	0.00
IBLK	IBLK	03/19/2025	23:57	PS029467.D	7.16	0.00
HSTDCCC750	HSTDCCC750	03/20/2025	00:21	PS029468.D	7.16	0.00

Analytical Sequence

Client: Weston Solutions	SDG No.: Q1569
Project: Fort Meade MD Tipton Airfield Parcel RI - 0	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 02/21/2025 02/21/2025

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	02/21/2025	19:32	PS029233.D	7.63	0.00
HSTDICC200	HSTDICC200	02/21/2025	19:56	PS029234.D	7.63	0.00
HSTDICC500	HSTDICC500	02/21/2025	20:20	PS029235.D	7.63	0.00
HSTDICC750	HSTDICC750	02/21/2025	20:44	PS029236.D	7.63	0.00
HSTDICC1000	HSTDICC1000	02/21/2025	21:08	PS029237.D	7.63	0.00
HSTDICC1500	HSTDICC1500	02/21/2025	21:32	PS029238.D	7.63	0.00
IBLK	IBLK	03/19/2025	09:14	PS029452.D	7.62	0.00
HSTDCCC750	HSTDCCC750	03/19/2025	10:02	PS029453.D	7.62	0.00
PB167214BL	PB167214BL	03/19/2025	17:58	PS029454.D	7.62	0.00
PB167214BS	PB167214BS	03/19/2025	18:21	PS029455.D	7.62	0.00
PB167133TB	PB167133TB	03/19/2025	18:45	PS029456.D	7.62	0.00
IBLK	IBLK	03/19/2025	19:33	PS029458.D	7.61	0.00
HSTDCCC750	HSTDCCC750	03/19/2025	19:57	PS029459.D	7.60	0.00
TAP-IDW-SOIL-031325-01	Q1569-02	03/19/2025	21:10	PS029460.D	7.60	0.00
TAP-IDW-SOIL-031325-01MS	Q1569-02MS	03/19/2025	21:34	PS029461.D	7.60	0.00
TAP-IDW-SOIL-031325-01MSD	Q1569-02MSD	03/19/2025	21:57	PS029462.D	7.60	0.00
TAP-IDW-SOIL-031325-02	Q1569-05	03/19/2025	22:21	PS029463.D	7.60	0.00
IBLK	IBLK	03/19/2025	23:57	PS029467.D	7.61	0.00
HSTDCCC750	HSTDCCC750	03/20/2025	00:21	PS029468.D	7.60	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167214BS

Contract: WEST04

Lab Code: CHEM

Case No.: Q1569

SAS No.: Q1569

SDG NO.: Q1569

Lab Sample ID: PB167214BS

Date(s) Analyzed: 03/19/2025

03/19/2025

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-TP(Silvex)	1	9.15	9.10	9.20	5.10	6.1
	2	9.74	9.69	9.79	4.80	
2,4-D	1	8.28	8.23	8.33	4.70	6.6
	2	8.85	8.80	8.90	4.40	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TAP-IDW-SOIL-031325-01MS

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1569

SAS No.: Q1569 **SDG NO.:** Q1569

Lab Sample ID: Q1569-02MS

Date(s) Analyzed: 03/19/2025 03/19/2025

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-D	1	8.27	8.22	8.32	52.5	8.3
	2	8.83	8.78	8.88	48.3	
2,4,5-TP(Silvex)	1	9.13	9.08	9.18	52.3	9.6
	2	9.72	9.67	9.77	47.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TAP-IDW-SOIL-031325-01MSD

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1569

SAS No.: Q1569 **SDG NO.:** Q1569

Lab Sample ID: Q1569-02MSD

Date(s) Analyzed: 03/19/2025 03/19/2025

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-D	1	8.27	8.22	8.32	53.1	8.4
	2	8.83	8.78	8.88	48.8	
2,4,5-TP(Silvex)	1	9.13	9.08	9.18	53.1	9.3
	2	9.72	9.67	9.77	48.4	



QC SAMPLE DATA

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	
Client Sample ID:	PB167214BL	SDG No.:	Q1569
Lab Sample ID:	PB167214BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029454.D	1	03/19/25 11:15	03/19/25 17:58	PB167214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.92	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.78	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	535		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\PS031925\
 Data File : PS029454.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 17:58
 Operator : AR\AJ
 Sample : PB167214BL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB167214BL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 20 01:36:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.170	7.619	2204.5E6	459.3E6	534.992	488.451
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Target Compounds

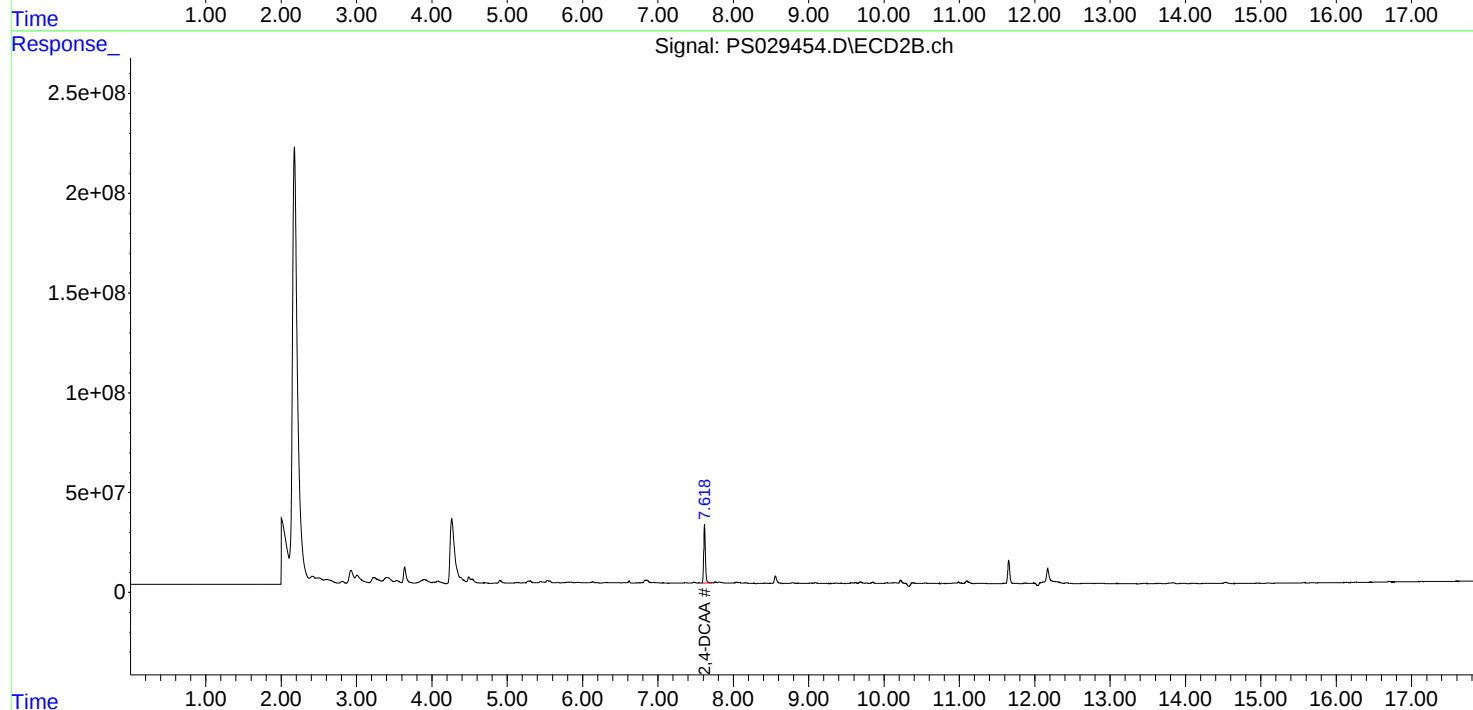
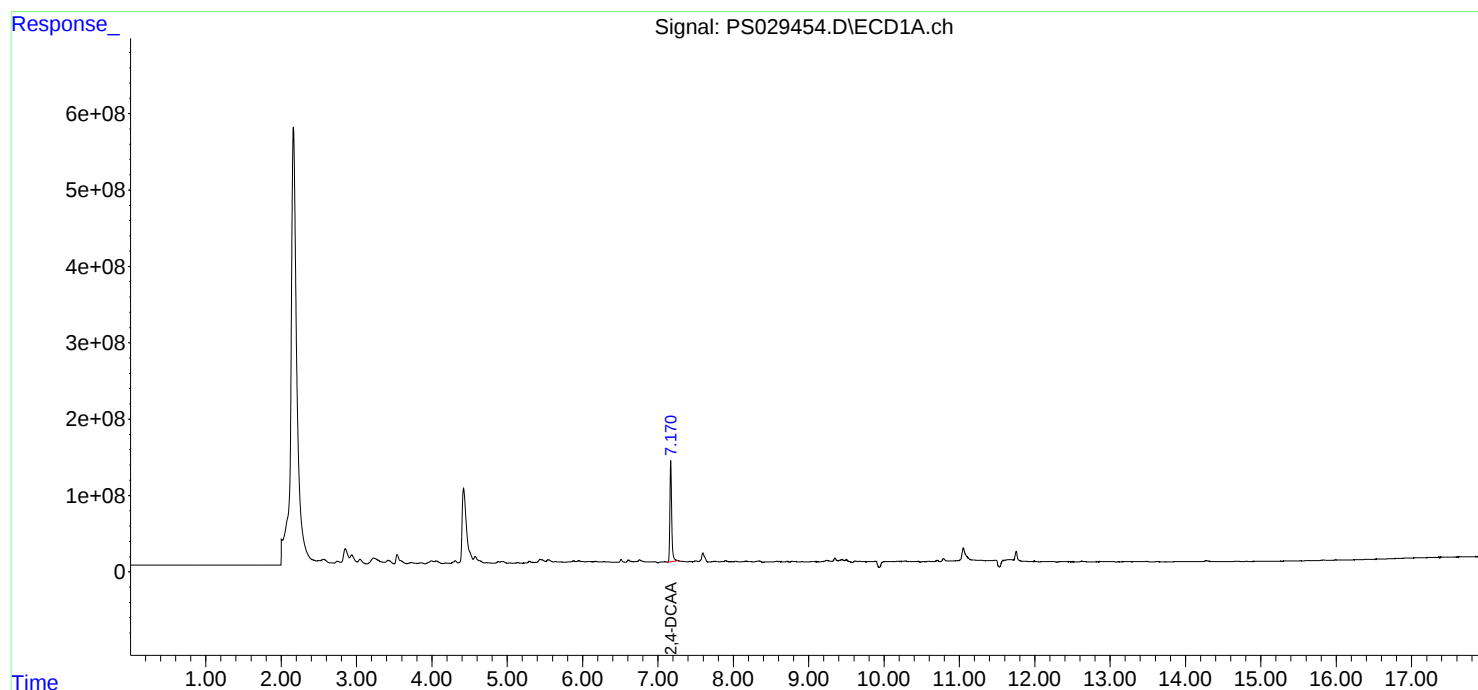
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

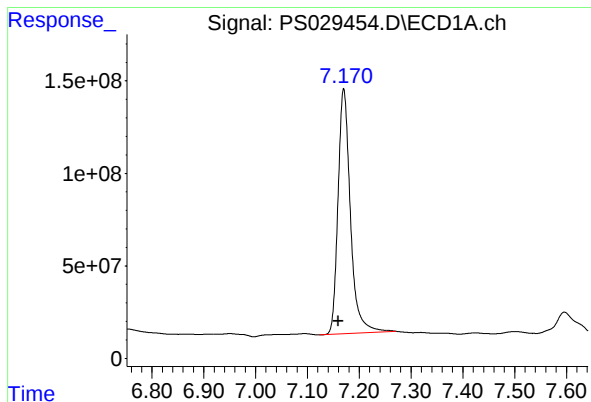
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029454.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 17:58
Operator : AR\AJ
Sample : PB167214BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167214BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 01:36:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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.: 7.170 min

Delta R.T.: 0.010 min

Response: 2204477759

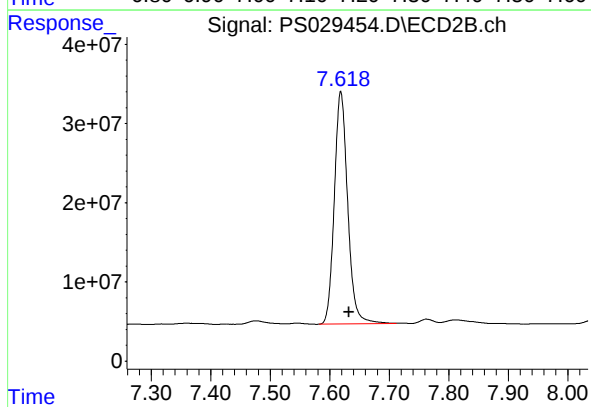
Conc: 534.99 ng/ml

Instrument :

ECD_S

ClientSampleId :

PB167214BL



#4 2,4-DCAA

R.T.: 7.619 min

Delta R.T.: -0.013 min

Response: 459306020

Conc: 488.45 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/21/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	02/21/25
Client Sample ID:	PIBLK-PS029233.D	SDG No.:	Q1569
Lab Sample ID:	I.BLK-PS029233.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029233.D	1		02/21/25	ps022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.92	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.78	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	494		32 - 138		99%	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\PS022125\
Data File : PS029233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 19:32
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: Feb 22 01:05:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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	7.161	7.633	1959.5E6	464.9E6	475.547	494.404

Target Compounds

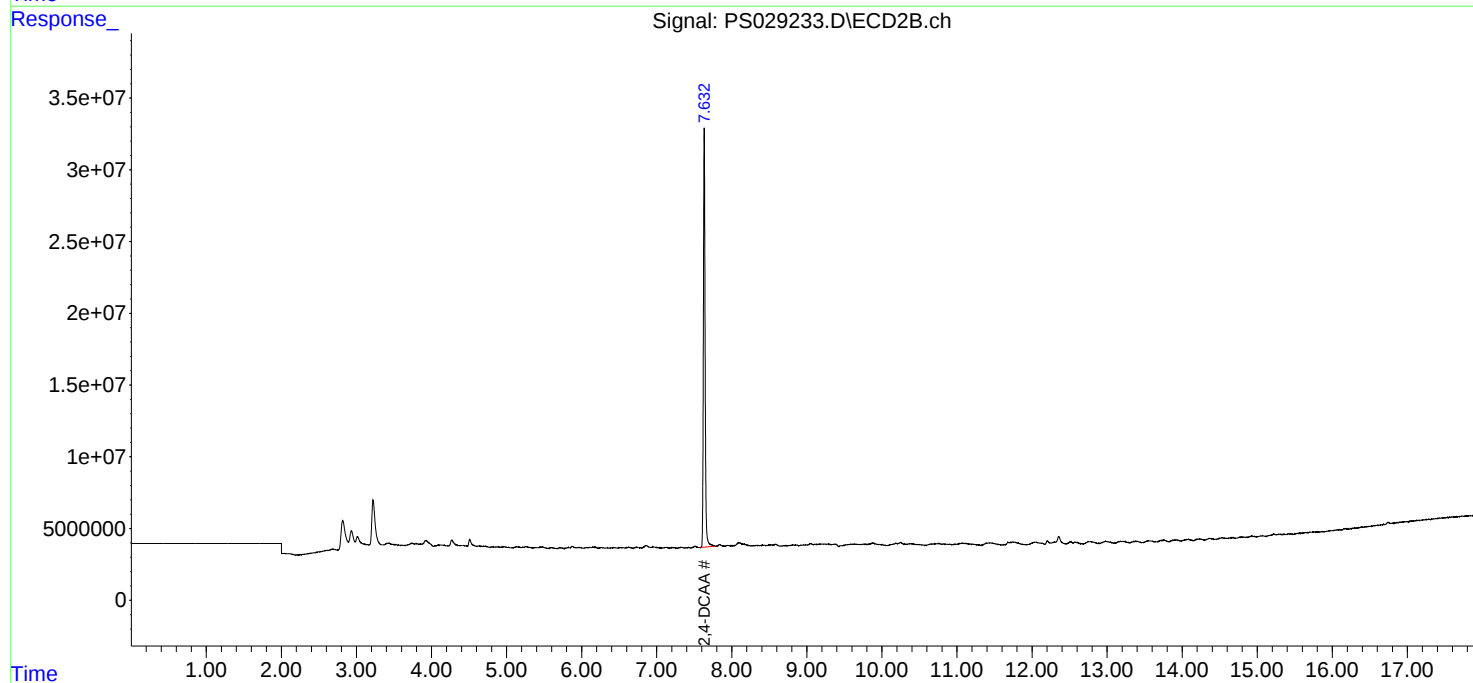
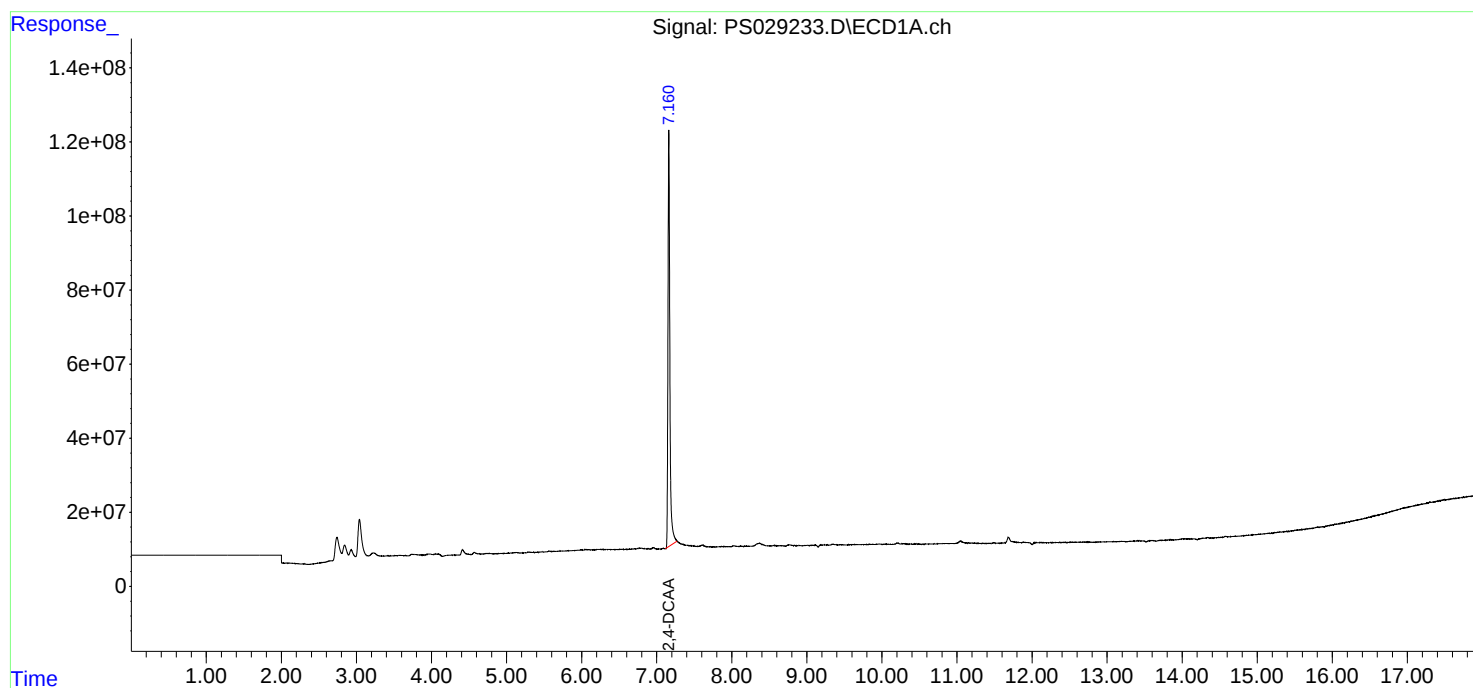
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

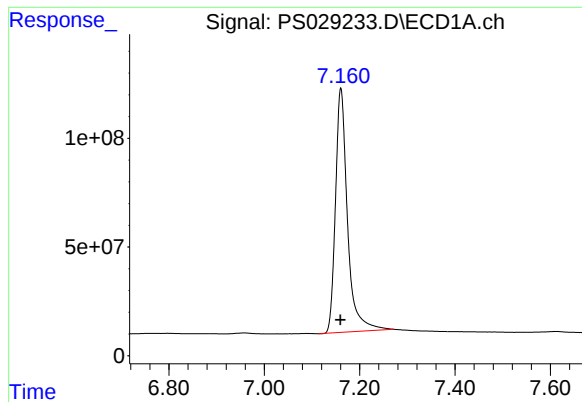
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 19:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 01:05:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

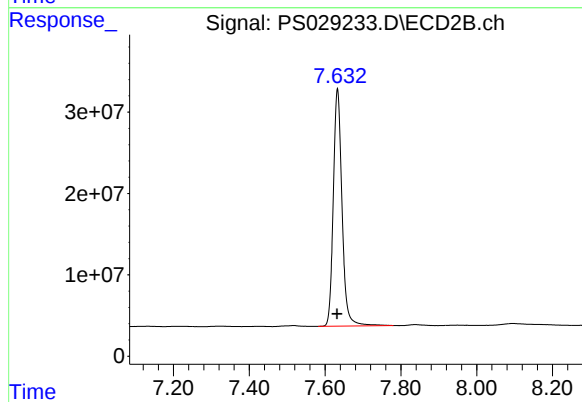




#4 2,4-DCAA

R.T.: 7.161 min
Delta R.T.: 0.000 min
Response: 1959528224
Conc: 475.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 464904309
Conc: 494.40 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/19/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/19/25
Client Sample ID:	PIBLK-PS029452.D	SDG No.:	Q1569
Lab Sample ID:	I.BLK-PS029452.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029452.D	1		03/19/25	PS031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.92	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.78	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	539		32 - 138		108%	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\PS031925\
 Data File : PS029452.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 09:14
 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: Mar 20 01:35:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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
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System Monitoring Compounds

4) S 2,4-DCAA	7.165	7.624	2220.5E6	449.8E6	538.888m	478.294
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Target Compounds

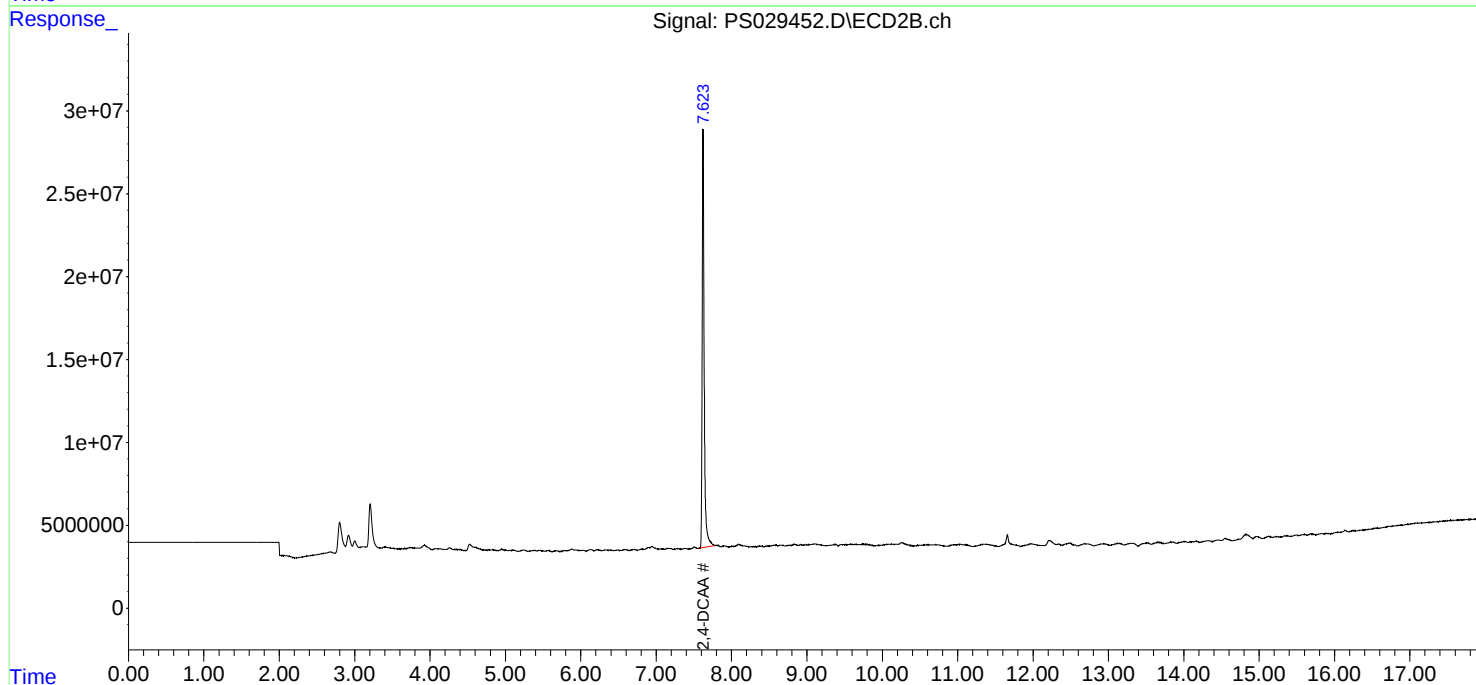
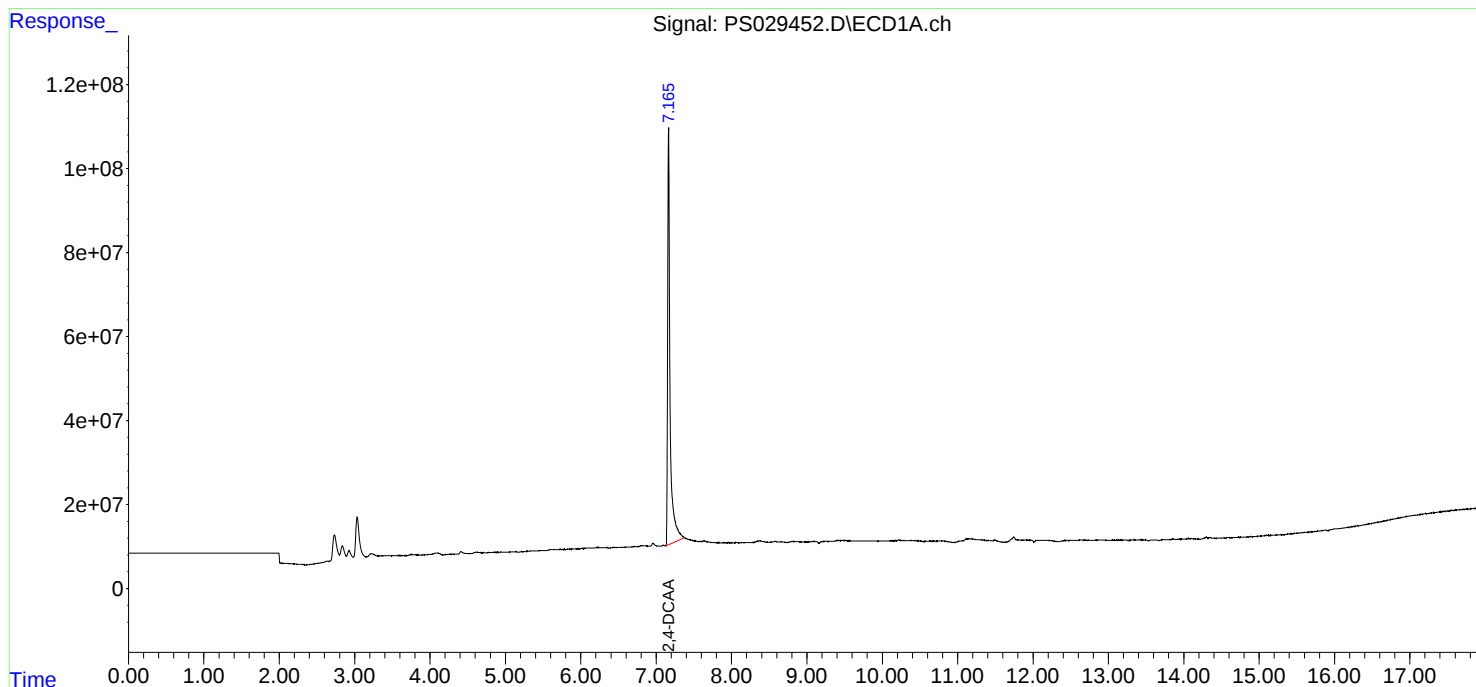
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

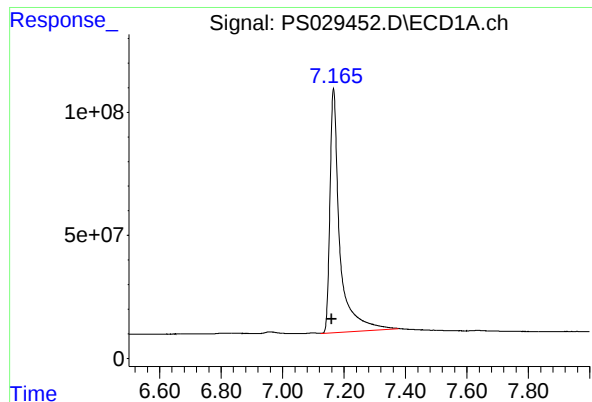
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029452.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 09:14
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 01:35:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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.: 7.165 min

Delta R.T.: 0.006 min

Response: 2220529115

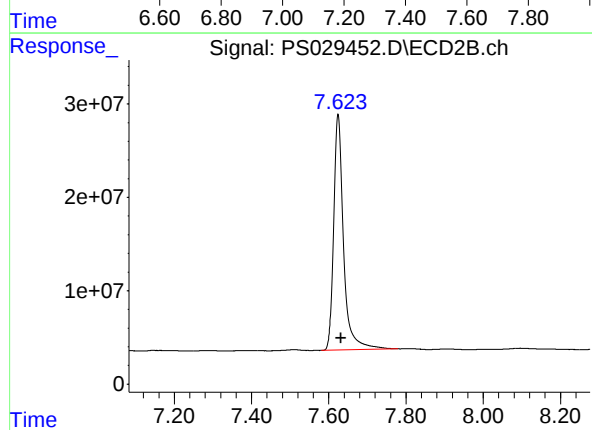
Conc: 538.89 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.624 min

Delta R.T.: -0.008 min

Response: 449755338

Conc: 478.29 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/19/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/19/25
Client Sample ID:	PIBLK-PS029458.D	SDG No.:	Q1569
Lab Sample ID:	I.BLK-PS029458.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029458.D	1		03/19/25	PS031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.92	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.78	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	551		32 - 138		110%	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\PS031925\
 Data File : PS029458.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 19:33
 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: Mar 20 06:50:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.157	7.605	2269.4E6	460.4E6	550.753m	489.637m

Target Compounds

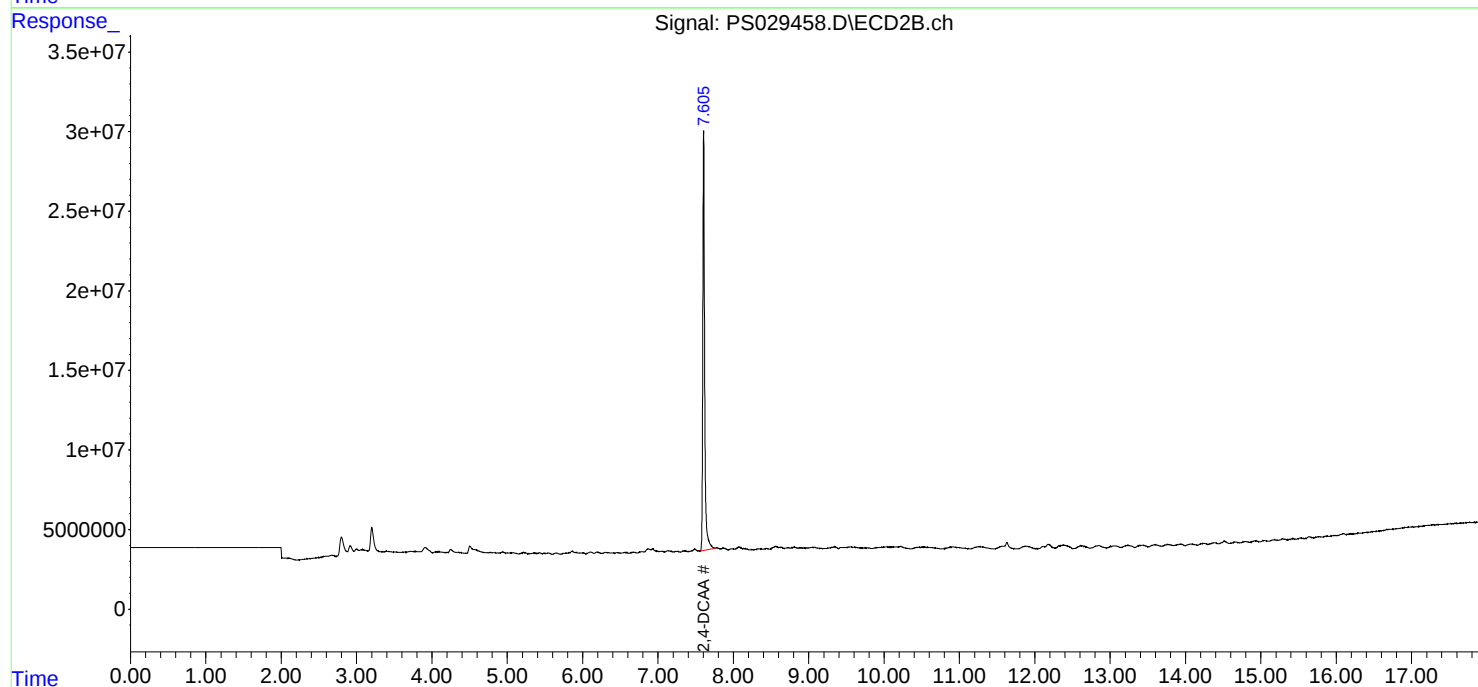
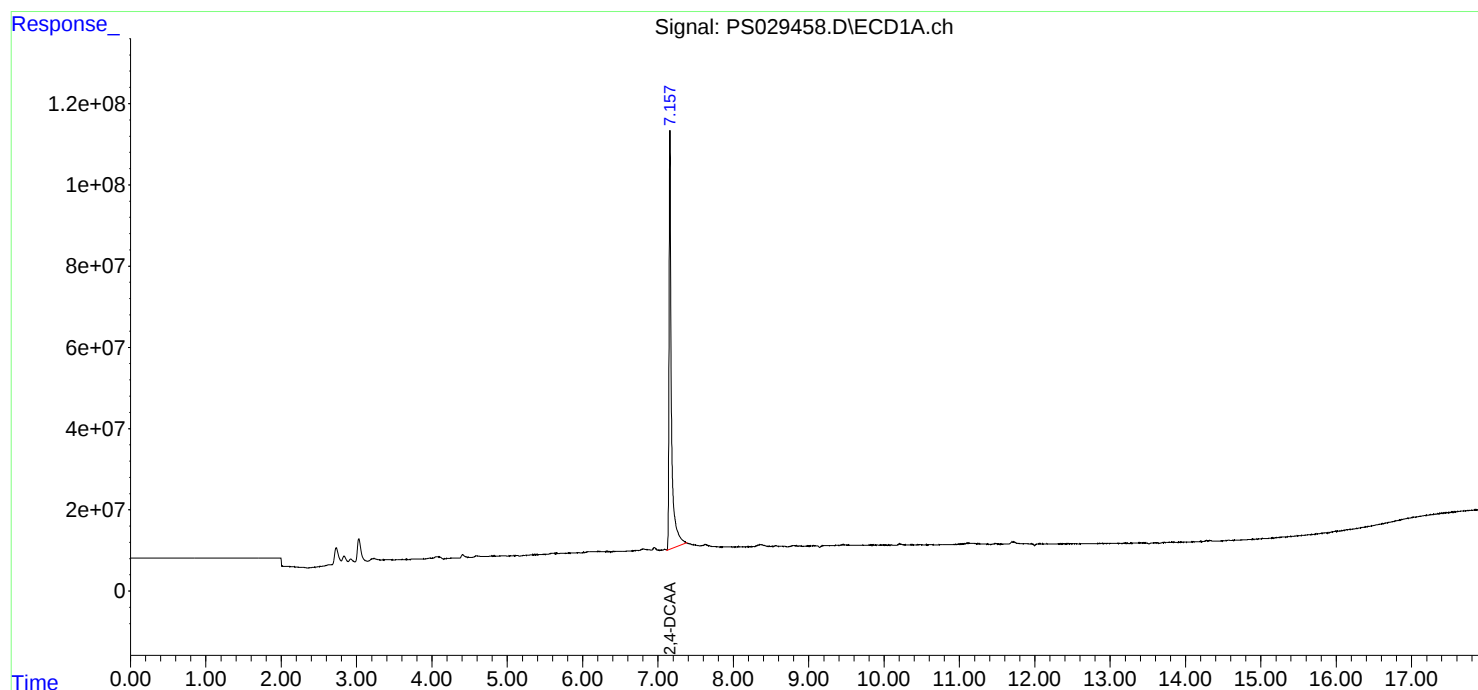
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

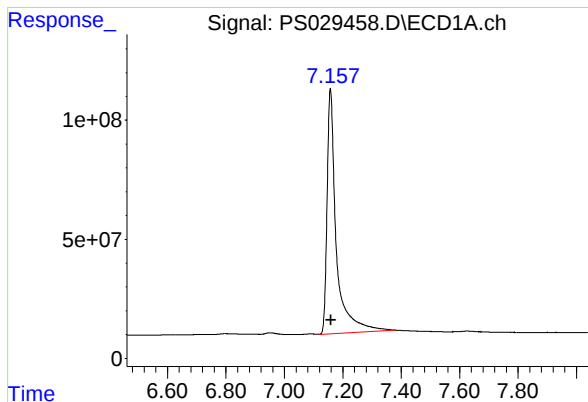
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029458.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 19:33
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 06:50:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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.: 7.157 min

Delta R.T.: -0.003 min

Response: 2269422287

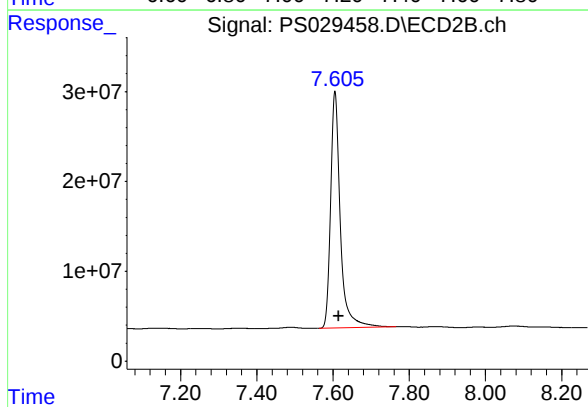
Conc: 550.75 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.605 min

Delta R.T.: -0.010 min

Response: 460421974

Conc: 489.64 ng/ml m

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/19/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/19/25
Client Sample ID:	PIBLK-PS029467.D	SDG No.:	Q1569
Lab Sample ID:	I.BLK-PS029467.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029467.D	1		03/19/25	PS031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.92	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.78	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	555		32 - 138		111%	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\PS031925\
 Data File : PS029467.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 23:57
 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: Mar 20 07:12:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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
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System Monitoring Compounds

4) S	2,4-DCAA	7.159	7.605	2288.6E6	463.9E6	555.403m	493.384m
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Target Compounds

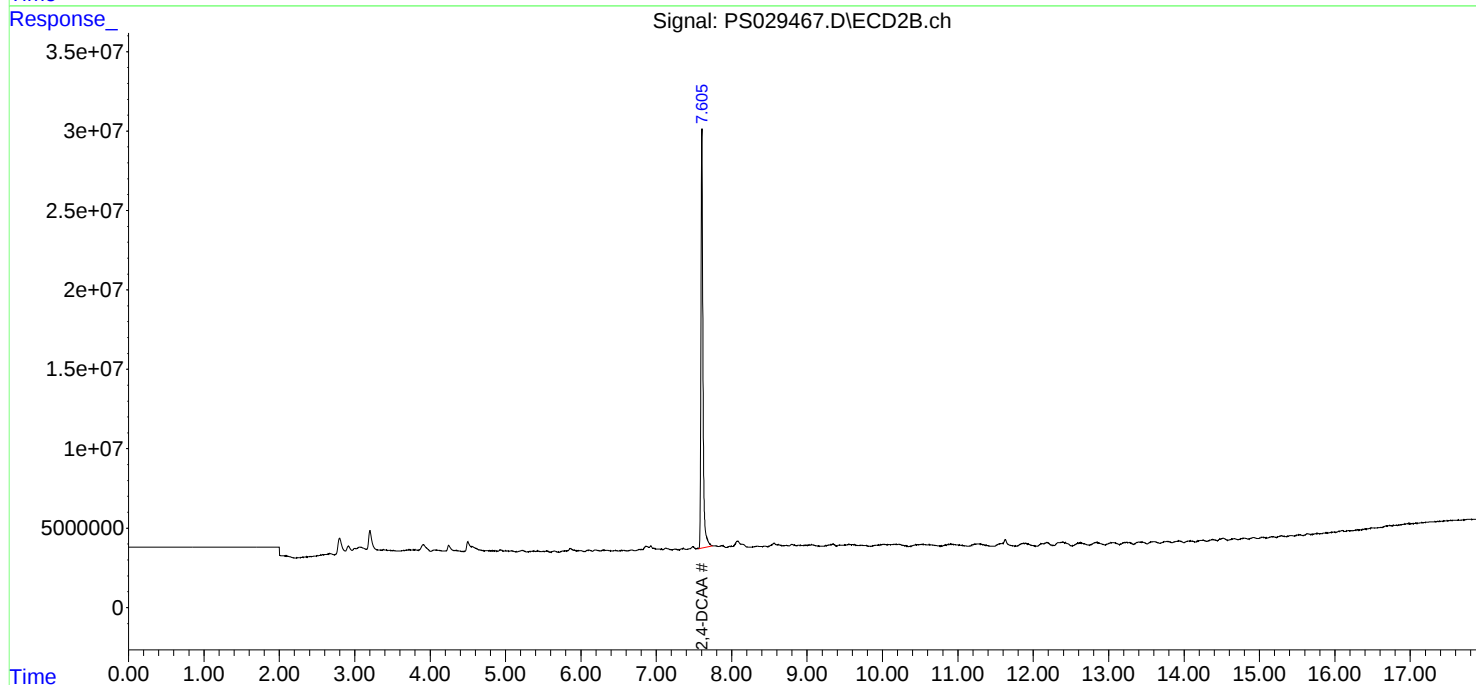
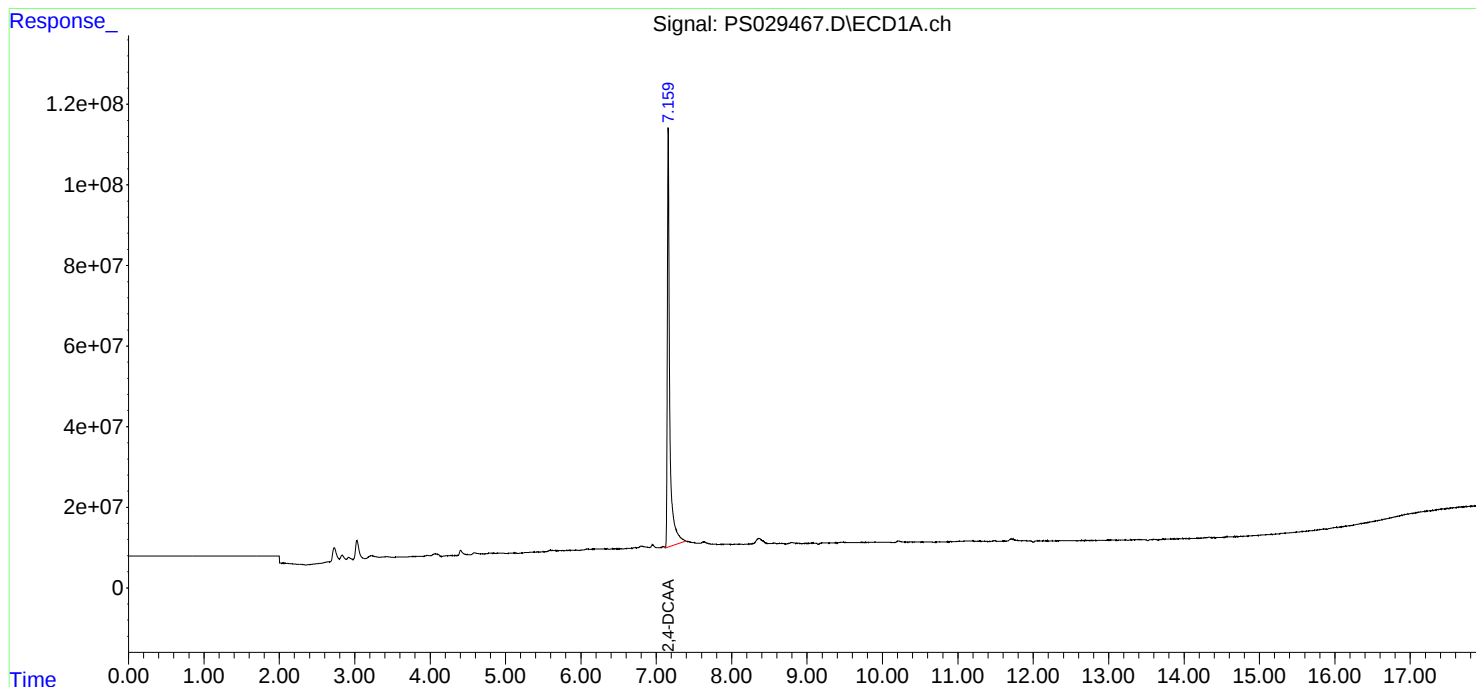
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

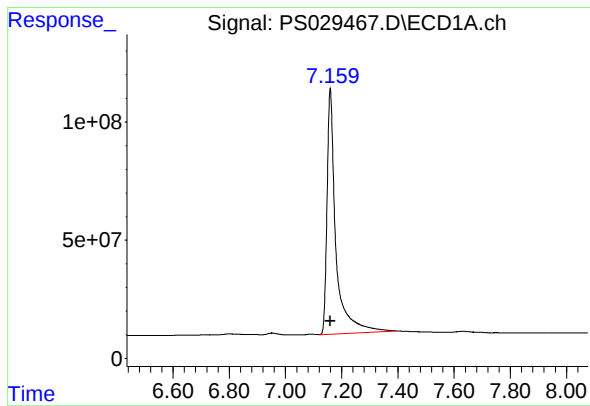
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029467.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 23:57
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 07:12:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

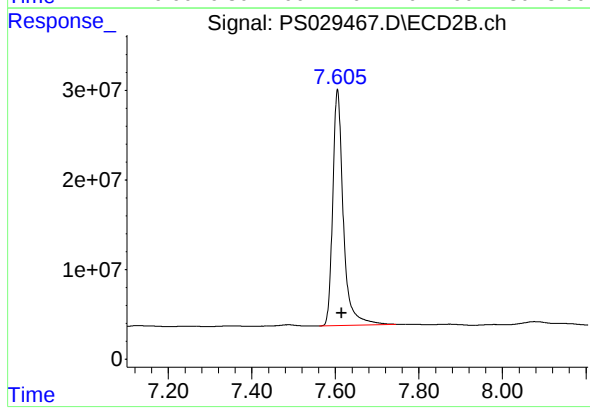




#4 2,4-DCAA

R.T.: 7.159 min
Delta R.T.: -0.001 min
Response: 2288579469
Conc: 555.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.605 min
Delta R.T.: -0.010 min
Response: 463944785
Conc: 493.38 ng/ml m

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	
Client Sample ID:	PB167214BS	SDG No.:	Q1569
Lab Sample ID:	PB167214BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029455.D	1	03/19/25 11:15	03/19/25 18:21	PB167214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	4.70		0.92	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.10		0.78	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	523		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\PS031925\
 Data File : PS029455.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 18:21
 Operator : AR\AJ
 Sample : PB167214BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB167214BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 20 07:15:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.166	7.620	2153.5E6	441.2E6	522.614	469.226
Target Compounds							
1) T	Dalapon	2.599	2.641	2736.7E6	959.2E6	495.747	453.070
2) T	3,5-DICHL...	6.347	6.594	2859.6E6	620.4E6	488.732	438.134
3) T	4-Nitroph...	6.970	7.154	911.7E6	338.8E6	389.570	424.796
5) T	DICAMBA	7.348	7.812	8768.0E6	2336.0E6	504.896	453.335m
6) T	MCP	7.527	7.916	561.7E6	99066563	45.575	42.352
7) T	MCPA	7.674	8.154	787.8E6	137.2E6	46.488	43.007
8) T	DICHLORPROP	8.050	8.521	2265.2E6	582.6E6	492.818	455.581
9) T	2,4-D	8.283	8.846	2251.9E6	561.4E6	474.039	442.065
10) T	Pentachlo...	8.571	9.359	33845.4E6	11239.2E6	579.979	488.392
11) T	2,4,5-TP ...	9.147	9.737	12583.1E6	4302.0E6	511.780	476.062
12) T	2,4,5-T	9.441	10.152	12694.7E6	3697.8E6	498.051	450.381
13) T	2,4-DB	10.013	10.714	1746.7E6	338.6E6	418.337	442.211m
14) T	DINOSEB	11.203	11.087	8333.9E6	2651.2E6	501.110m	437.385m
15) T	Picloram	11.021	12.160	13187.8E6	4530.8E6	431.772m	391.855
16) T	DCPA	11.501	12.118	15631.3E6	5724.4E6	520.982	483.620

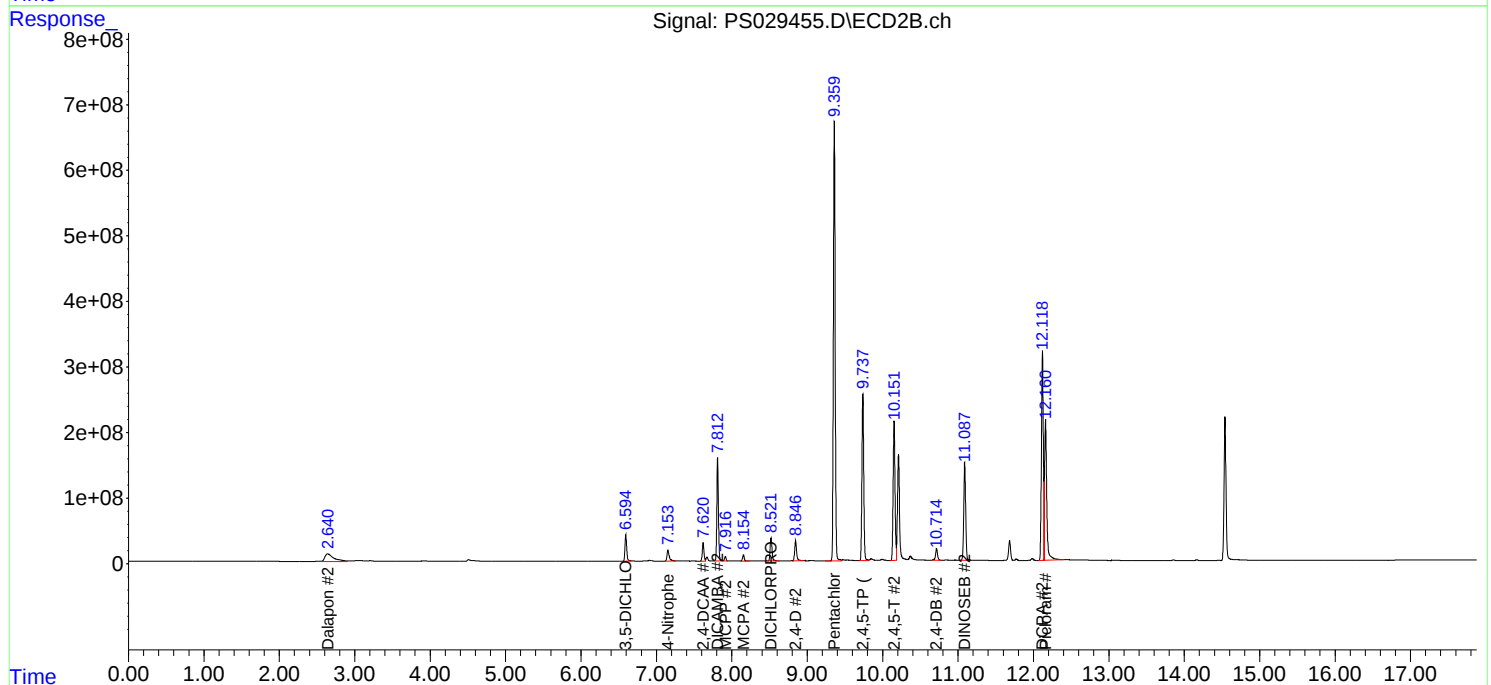
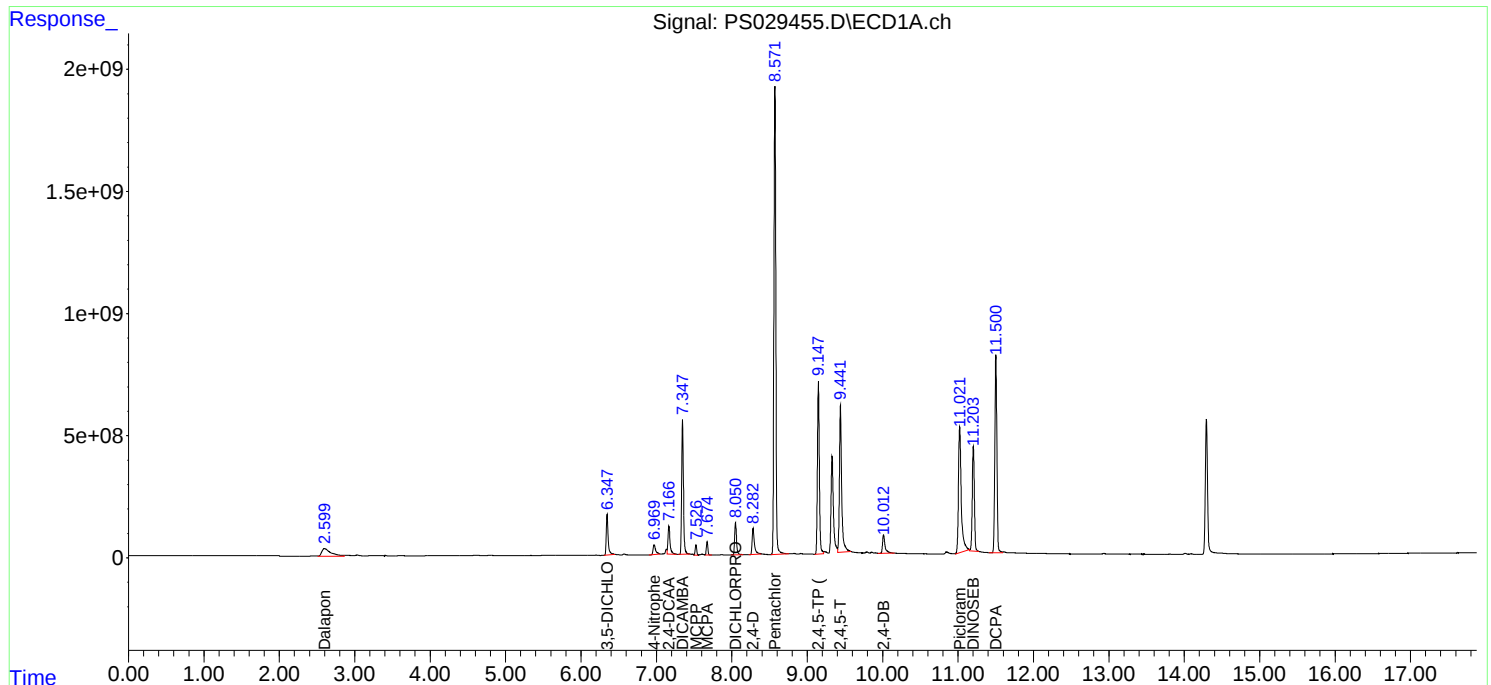
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

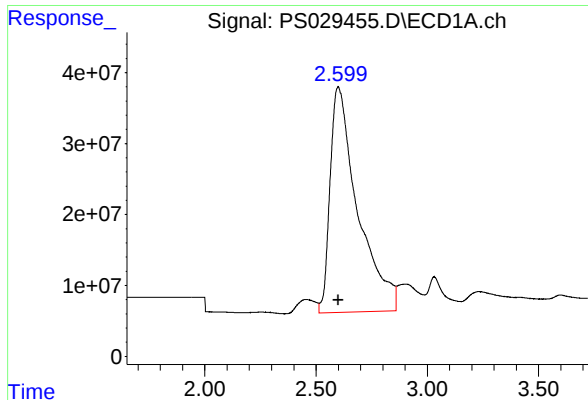
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029455.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 18:21
Operator : AR\AJ
Sample : PB167214BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167214BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 07:15:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

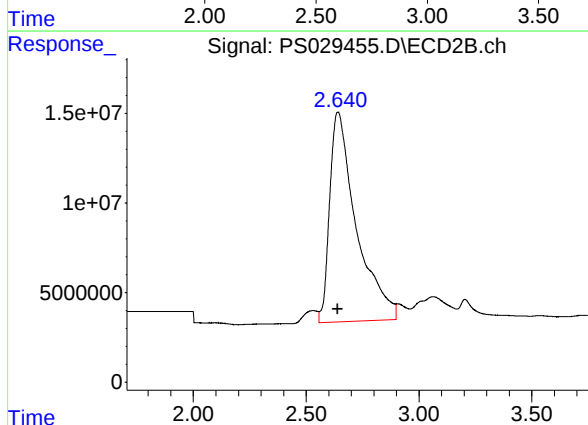




#1 Dalapon

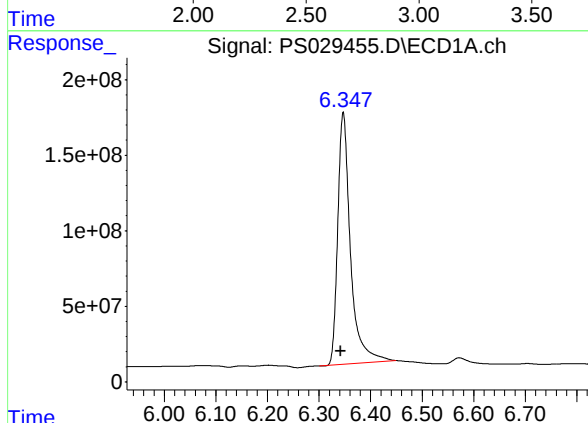
R.T.: 2.599 min
Delta R.T.: 0.000 min
Response: 2736667597
Conc: 495.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



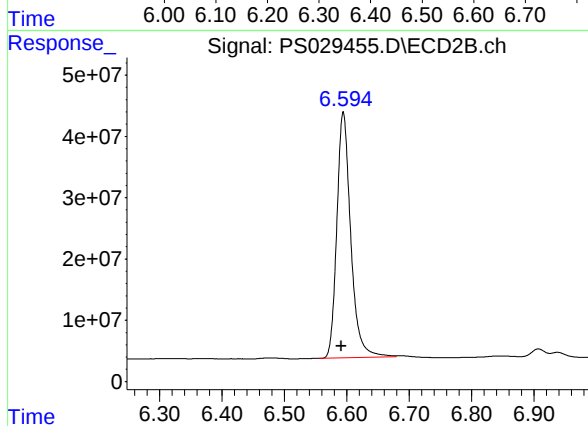
#1 Dalapon

R.T.: 2.641 min
Delta R.T.: 0.002 min
Response: 959203696
Conc: 453.07 ng/ml



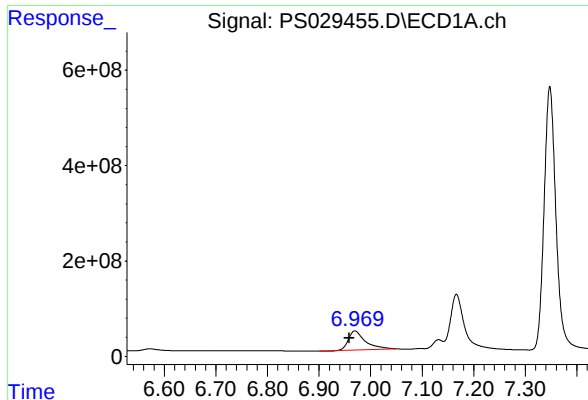
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.347 min
Delta R.T.: 0.005 min
Response: 2859630798
Conc: 488.73 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

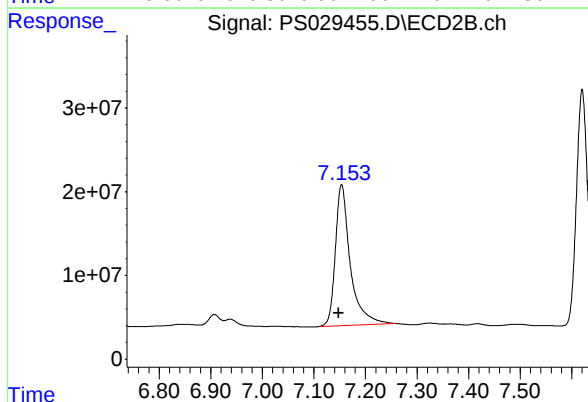
R.T.: 6.594 min
Delta R.T.: 0.003 min
Response: 620448762
Conc: 438.13 ng/ml



#3 4-Nitrophenol

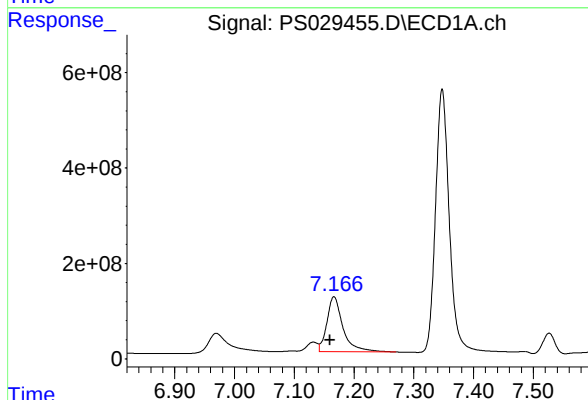
R.T.: 6.970 min
Delta R.T.: 0.011 min
Response: 911664939
Conc: 389.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



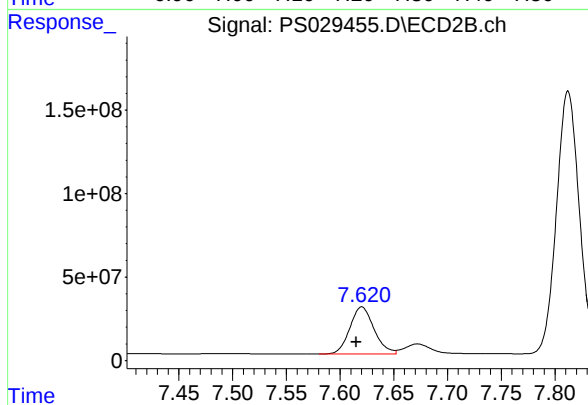
#3 4-Nitrophenol

R.T.: 7.154 min
Delta R.T.: 0.006 min
Response: 338795344
Conc: 424.80 ng/ml



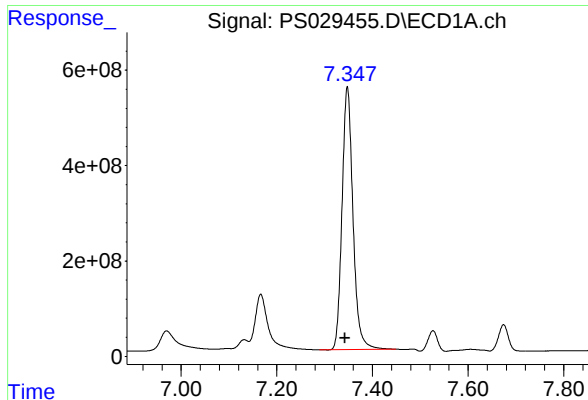
#4 2,4-DCAA

R.T.: 7.166 min
Delta R.T.: 0.007 min
Response: 2153472365
Conc: 522.61 ng/ml



#4 2,4-DCAA

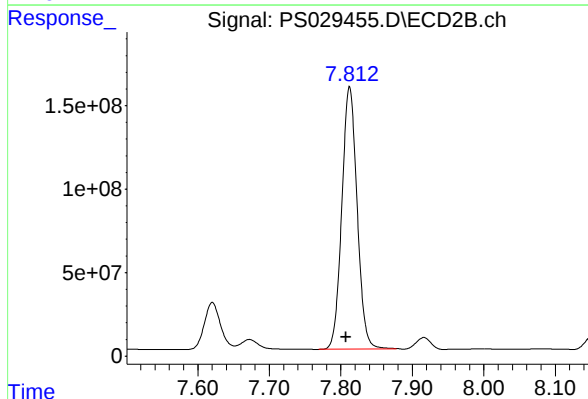
R.T.: 7.620 min
Delta R.T.: 0.005 min
Response: 441229008
Conc: 469.23 ng/ml



#5 DICAMBA

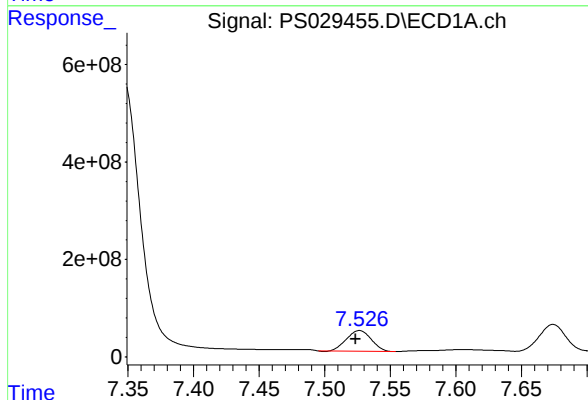
R.T.: 7.348 min
Delta R.T.: 0.005 min
Response: 8767999462
Conc: 504.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



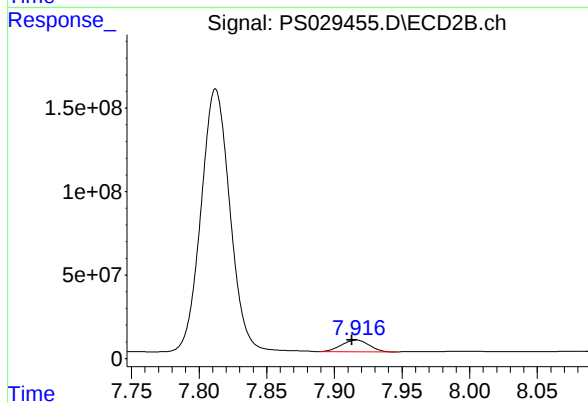
#5 DICAMBA

R.T.: 7.812 min
Delta R.T.: 0.005 min
Response: 2336021943
Conc: 453.34 ng/ml



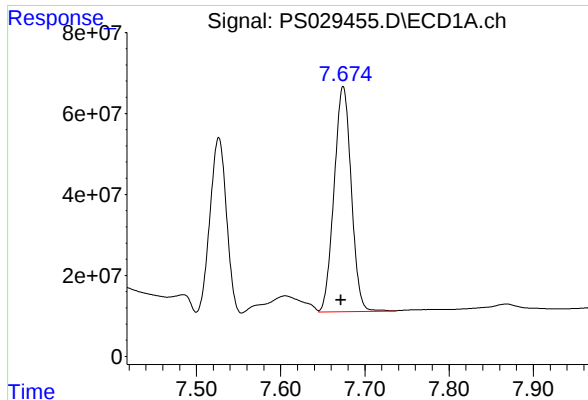
#6 MCPP

R.T.: 7.527 min
Delta R.T.: 0.003 min
Response: 561746234
Conc: 45.57 ug/ml



#6 MCPP

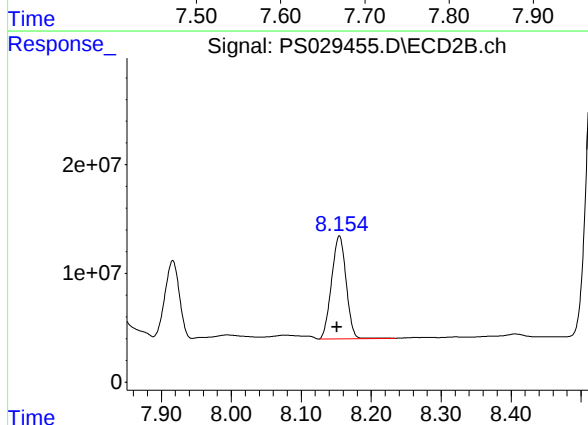
R.T.: 7.916 min
Delta R.T.: 0.003 min
Response: 99066563
Conc: 42.35 ug/ml



#7 MCPA

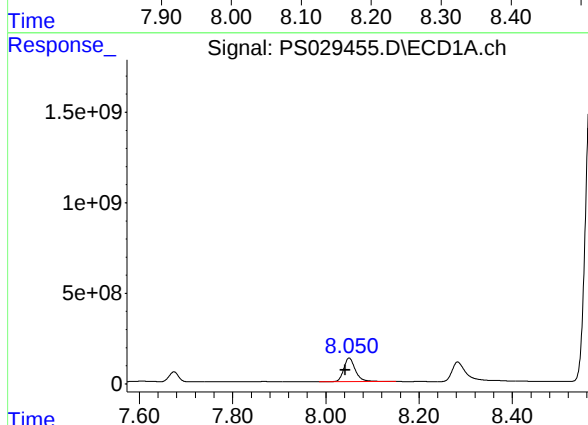
R.T.: 7.674 min
Delta R.T.: 0.003 min
Response: 787760503
Conc: 46.49 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



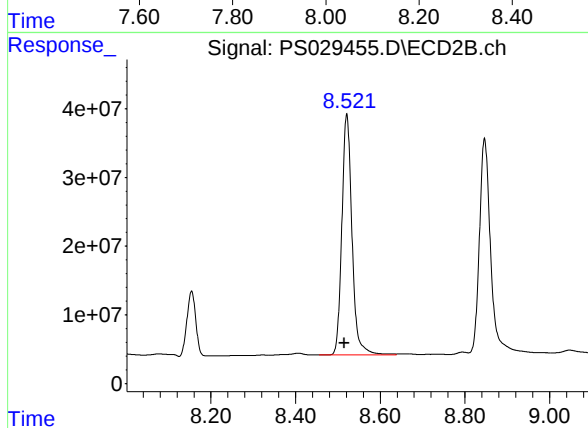
#7 MCPA

R.T.: 8.154 min
Delta R.T.: 0.003 min
Response: 137180355
Conc: 43.01 ug/ml



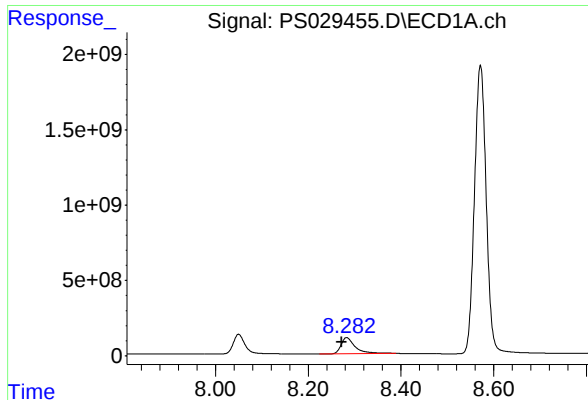
#8 DICHLORPROP

R.T.: 8.050 min
Delta R.T.: 0.008 min
Response: 2265219585
Conc: 492.82 ng/ml



#8 DICHLORPROP

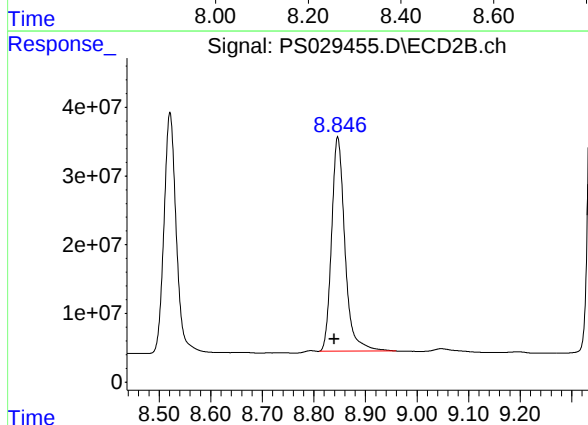
R.T.: 8.521 min
Delta R.T.: 0.006 min
Response: 582578774
Conc: 455.58 ng/ml



#9 2,4-D

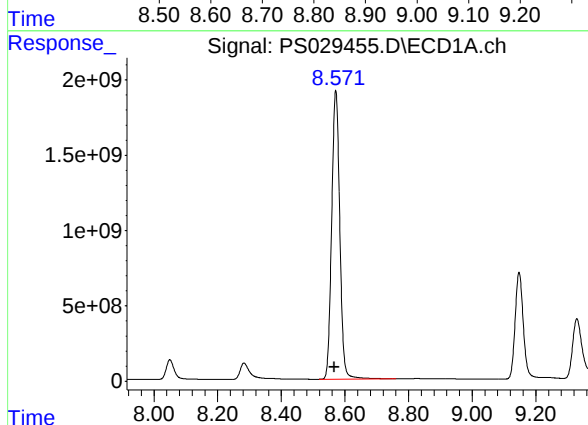
R.T.: 8.283 min
Delta R.T.: 0.011 min
Response: 2251889262
Conc: 474.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



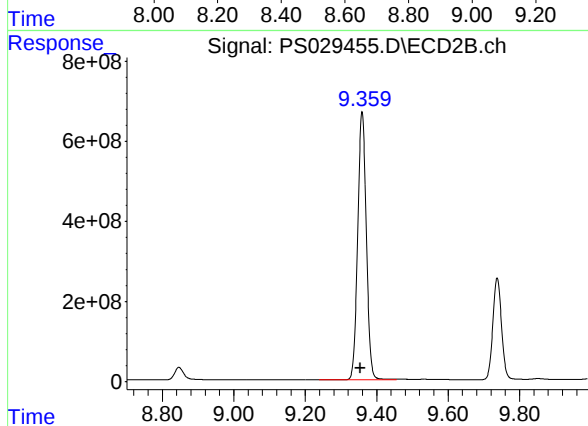
#9 2,4-D

R.T.: 8.846 min
Delta R.T.: 0.006 min
Response: 561376133
Conc: 442.06 ng/ml



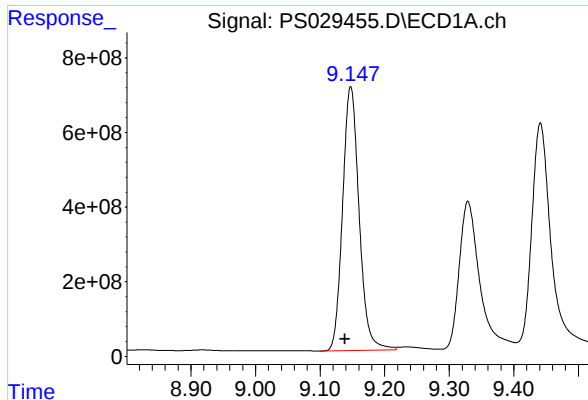
#10 Pentachlorophenol

R.T.: 8.571 min
Delta R.T.: 0.004 min
Response: 33845377282
Conc: 579.98 ng/ml



#10 Pentachlorophenol

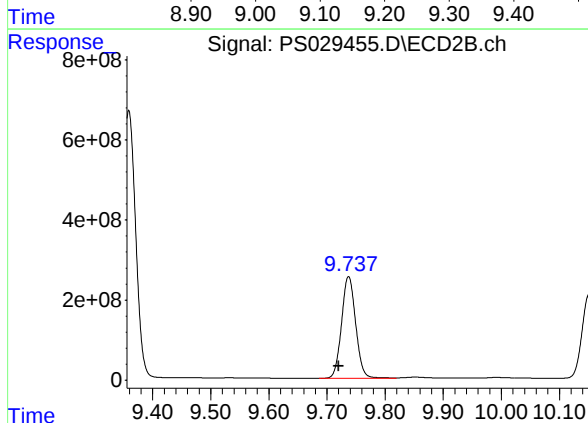
R.T.: 9.359 min
Delta R.T.: 0.005 min
Response: 11239216278
Conc: 488.39 ng/ml



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

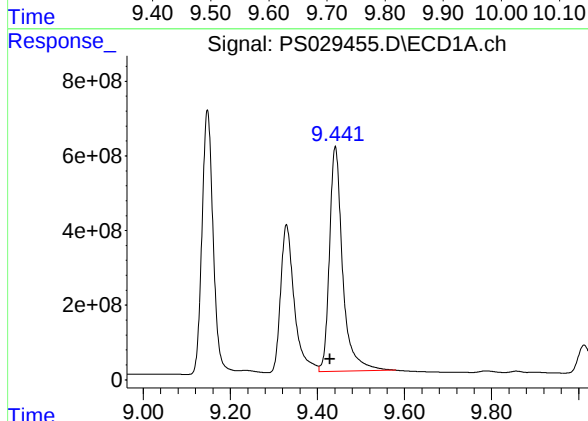
R.T.: 9.147 min
Delta R.T.: 0.009 min
Response: 12583107693
Conc: 511.78 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



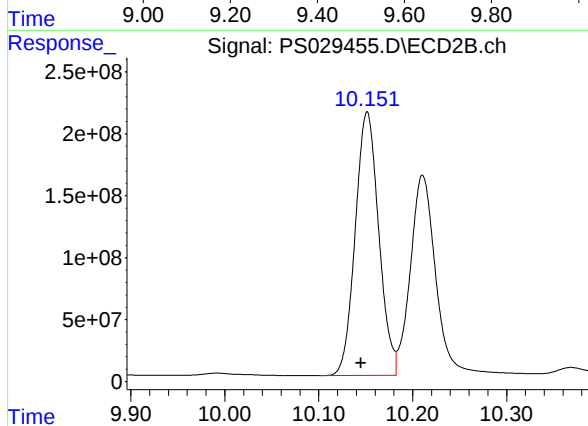
#11 2,4,5-TP (SILVEX)

R.T.: 9.737 min
Delta R.T.: 0.017 min
Response: 4302026302
Conc: 476.06 ng/ml



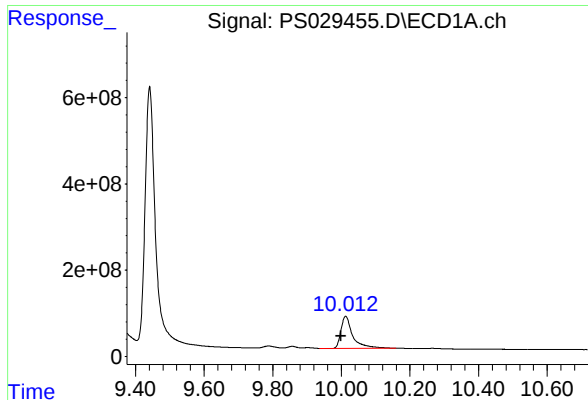
#12 2,4,5-T

R.T.: 9.441 min
Delta R.T.: 0.012 min
Response: 12694684417
Conc: 498.05 ng/ml



#12 2,4,5-T

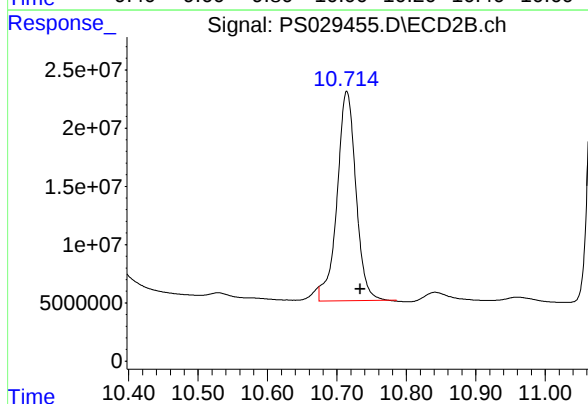
R.T.: 10.152 min
Delta R.T.: 0.007 min
Response: 3697757374
Conc: 450.38 ng/ml



#13 2,4-DB

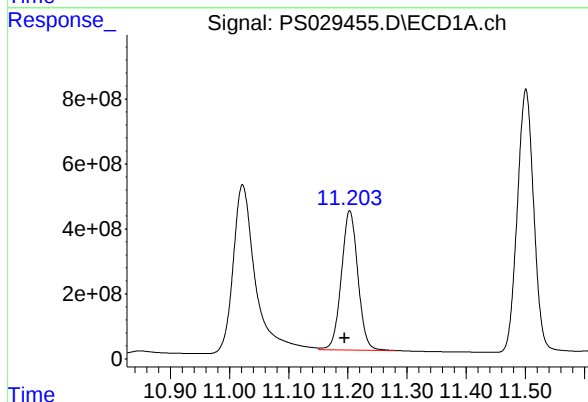
R.T.: 10.013 min
Delta R.T.: 0.014 min
Response: 1746735344
Conc: 418.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



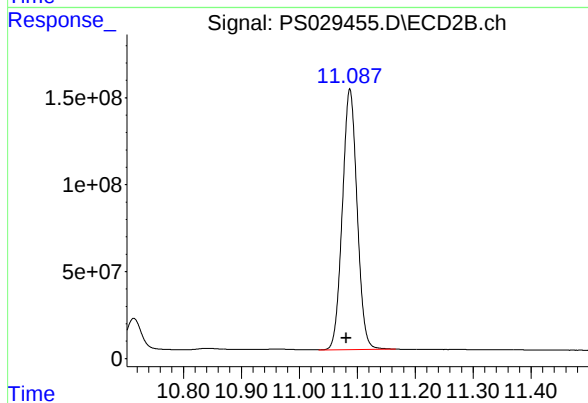
#13 2,4-DB

R.T.: 10.714 min
Delta R.T.: -0.020 min
Response: 338552586
Conc: 442.21 ng/ml m



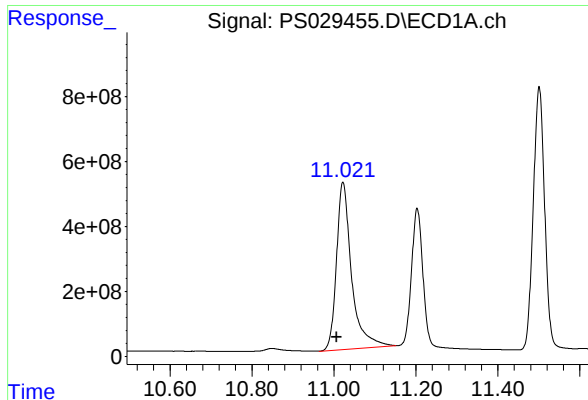
#14 DINOSEB

R.T.: 11.203 min
Delta R.T.: 0.008 min
Response: 8333866735
Conc: 501.11 ng/ml m



#14 DINOSEB

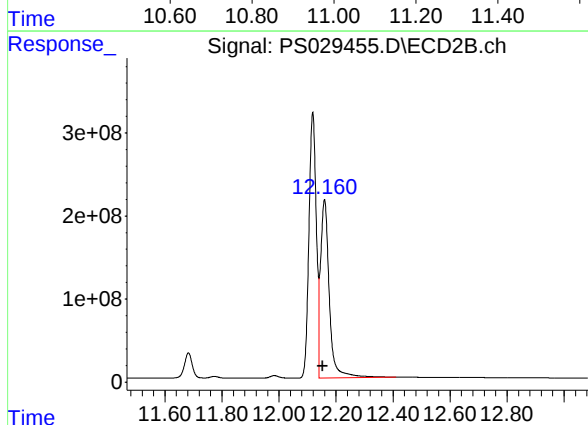
R.T.: 11.087 min
Delta R.T.: 0.006 min
Response: 2651218482
Conc: 437.38 ng/ml m



#15 Picloram

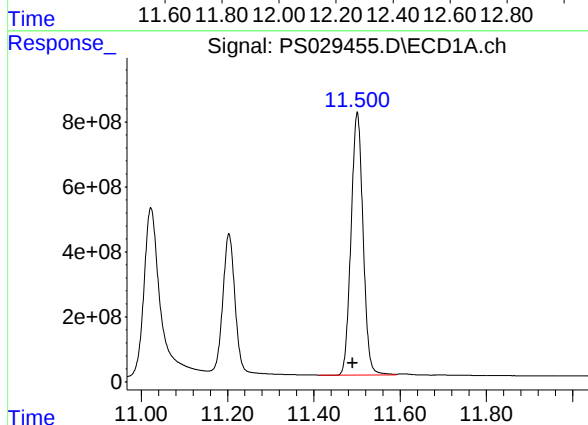
R.T.: 11.021 min
Delta R.T.: 0.014 min
Response: 13187820437
Conc: 431.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167214BS



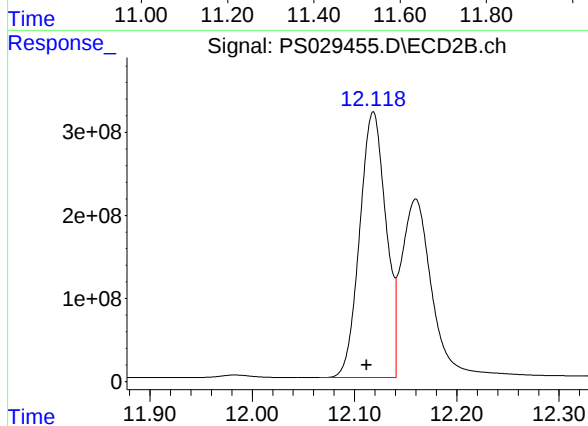
#15 Picloram

R.T.: 12.160 min
Delta R.T.: 0.007 min
Response: 4530798905
Conc: 391.86 ng/ml



#16 DCPA

R.T.: 11.501 min
Delta R.T.: 0.011 min
Response: 15631282968
Conc: 520.98 ng/ml



#16 DCPA

R.T.: 12.118 min
Delta R.T.: 0.006 min
Response: 5724395113
Conc: 483.62 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-01MS	SDG No.:	Q1569
Lab Sample ID:	Q1569-02MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029461.D	1	03/19/25 11:15	03/19/25 21:34	PB167214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	52.5		9.20	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	52.3		7.80	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	447		32 - 138		89%	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\PS031925\
 Data File : PS029461.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 21:34
 Operator : AR\AJ
 Sample : Q1569-02MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TAP-IDW-SOIL-031325-01MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 20 06:56:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.156	7.603	1843.0E6	353.1E6	447.263	375.523m
Target Compounds							
1) T	Dalapon	2.594	2.640	2026.0E6	702.8E6	367.012m	331.951m
2) T	3,5-DICHL...	6.338	6.580	2830.0E6	577.2E6	483.675	407.564m
3) T	4-Nitroph...	6.966	7.146	19632123	6871250	8.389m	8.615m
5) T	DICAMBA	7.337	7.795	8050.3E6	2184.8E6	463.568	423.983m
6) T	MCP	7.516	7.899	560.9E6	95980342	45.503	41.032m
7) T	MCPA	7.663	8.136	753.3E6	161.7E6	44.455	50.679m
8) T	DICHLORPROP	8.037	8.502	2087.8E6	553.4E6	454.222	432.763m
9) T	2,4-D	8.268	8.825	2492.4E6	613.8E6	524.667	483.365m
10) T	Pentachlo...	8.559	9.338	27675.8E6	8792.6E6	474.256	382.077
11) T	2,4,5-TP ...	9.133	9.715	12867.6E6	4295.8E6	523.351	475.376
12) T	2,4,5-T	9.425	10.128	12273.8E6	3663.2E6	481.538	446.170
13) T	2,4-DB	9.995	10.688f	1450.5E6	356.9E6	347.394m	466.194m#
14) T	DINOSEB	11.186	11.063	5093.8E6	1525.2E6	306.284m	251.620m
15) T	Picloram	11.003	12.131	11562.8E6	3982.0E6	378.567	344.389m
16) T	DCPA	11.480	12.091	12061.1E6	5296.6E6	401.991	447.481m

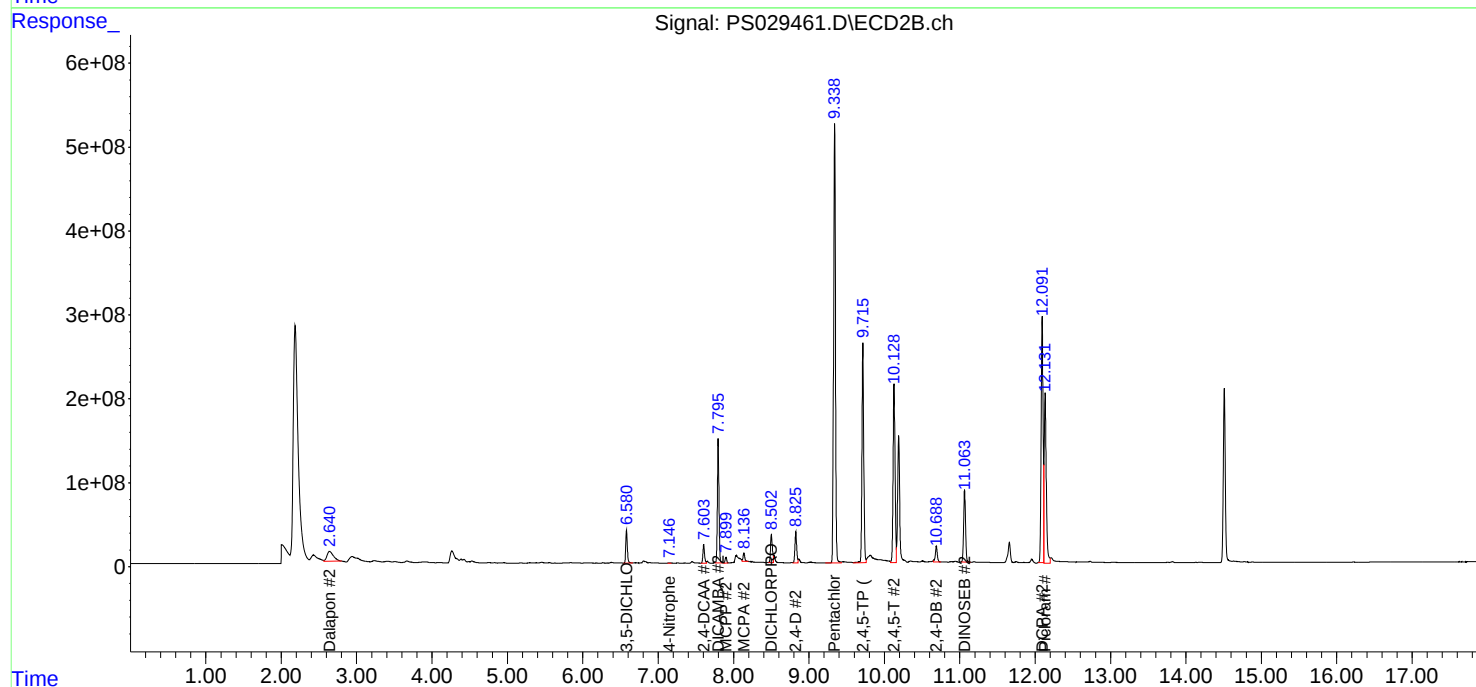
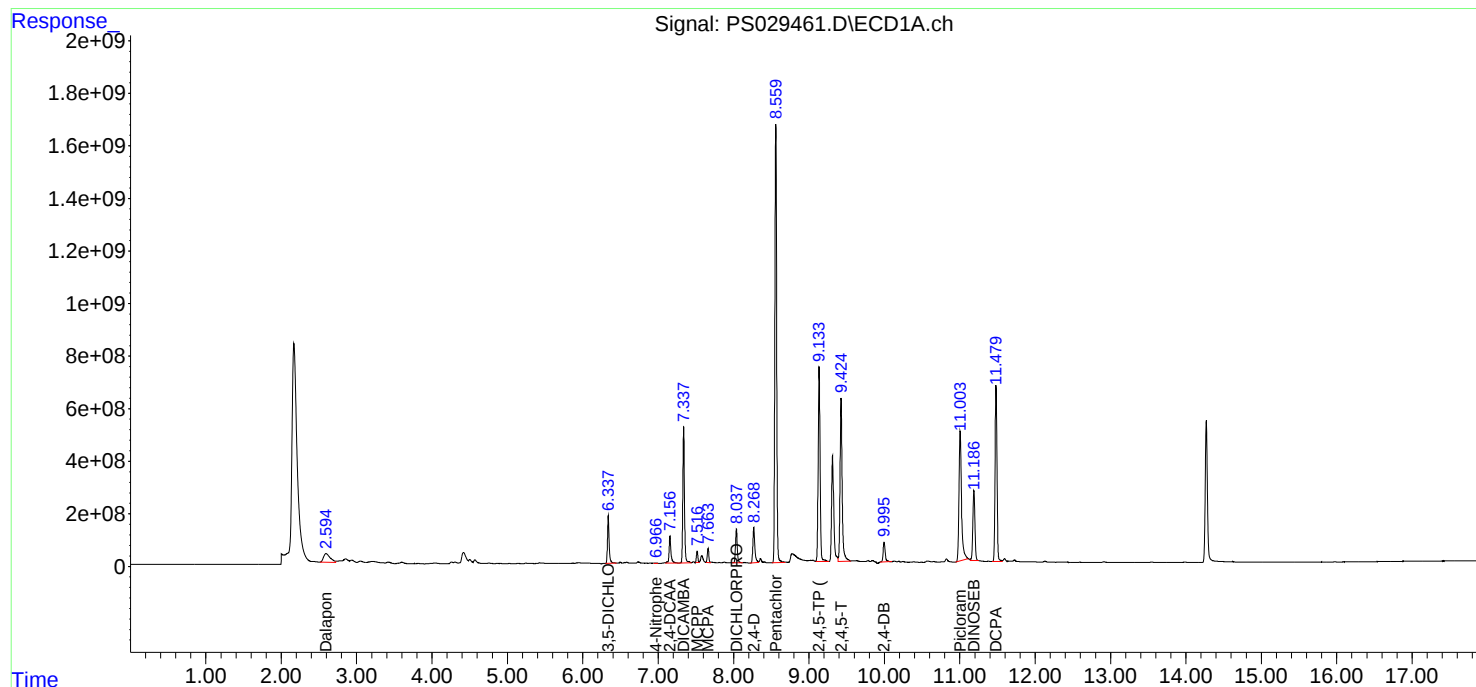
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

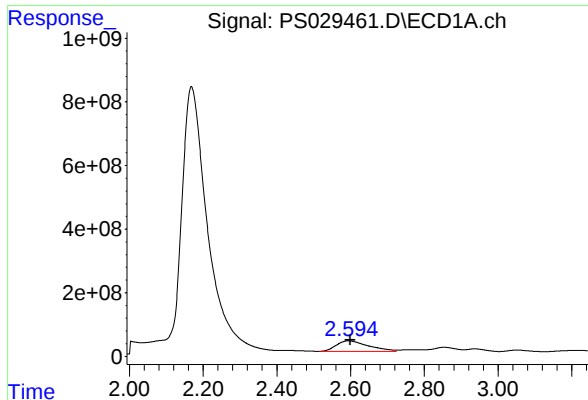
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029461.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 21:34
Operator : AR\AJ
Sample : Q1569-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 06:56:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

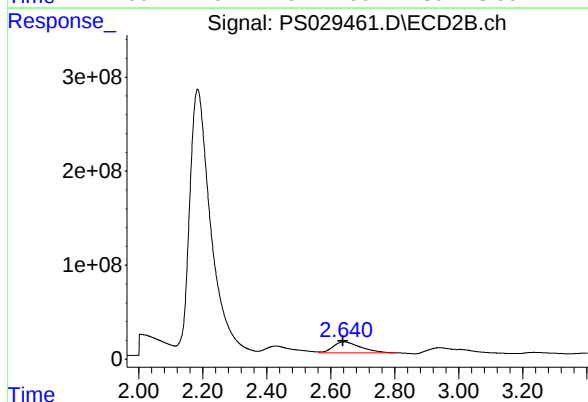




#1 Dalapon

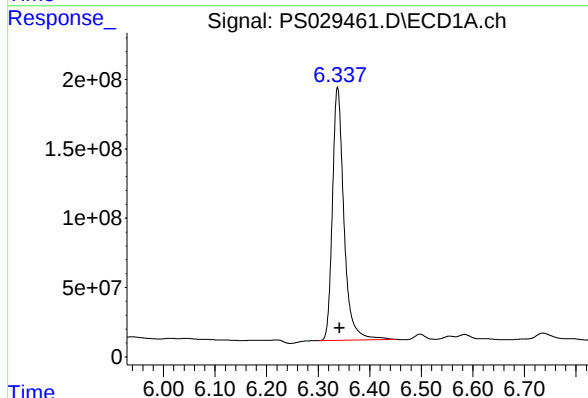
R.T.: 2.594 min
Delta R.T.: -0.006 min
Response: 2026010600
Conc: 367.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



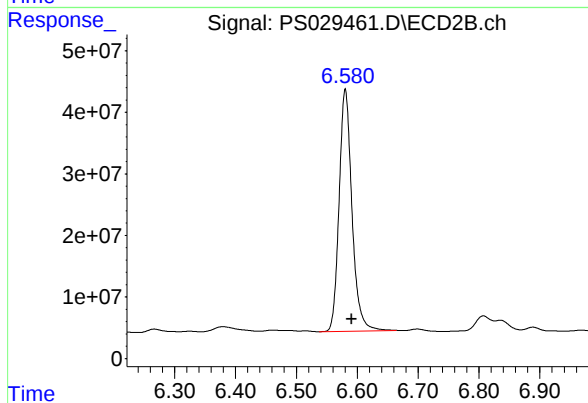
#1 Dalapon

R.T.: 2.640 min
Delta R.T.: 0.001 min
Response: 702780982
Conc: 331.95 ng/ml m



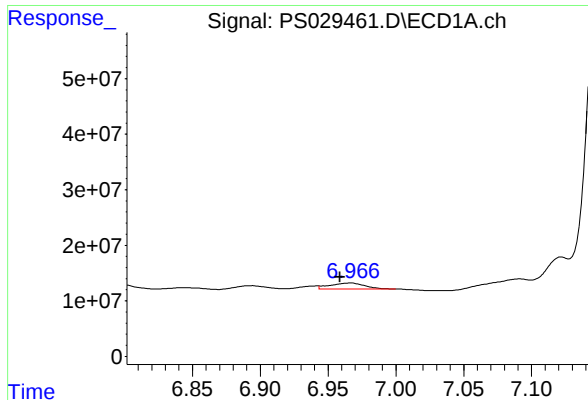
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.338 min
Delta R.T.: -0.004 min
Response: 2830042080
Conc: 483.68 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

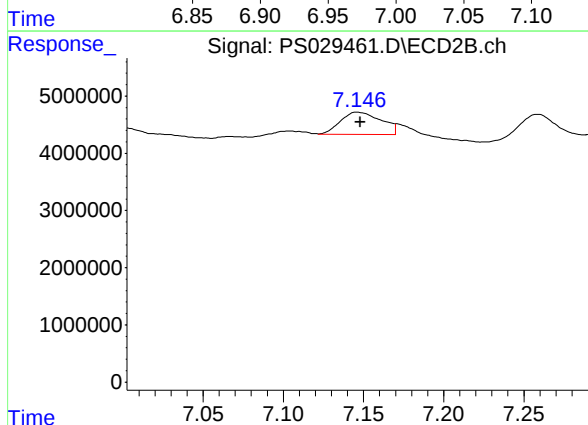
R.T.: 6.580 min
Delta R.T.: -0.011 min
Response: 577158013
Conc: 407.56 ng/ml m



#3 4-Nitrophenol

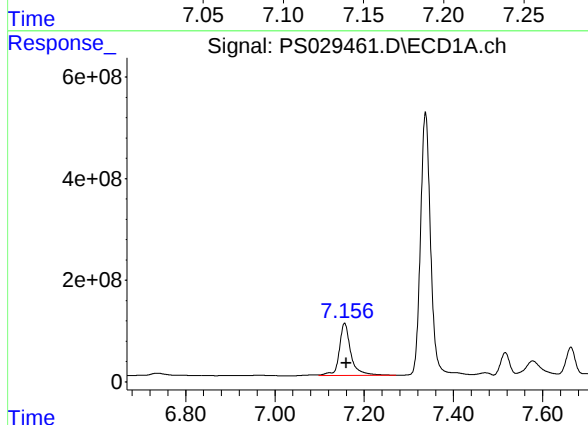
R.T.: 6.966 min
Delta R.T.: 0.008 min
Response: 19632123
Conc: 8.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



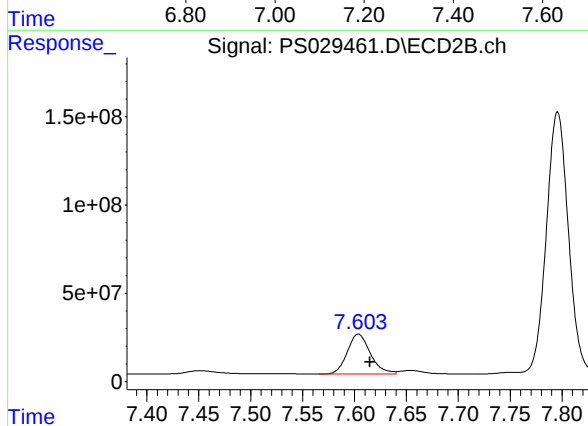
#3 4-Nitrophenol

R.T.: 7.146 min
Delta R.T.: -0.002 min
Response: 6871250
Conc: 8.62 ng/ml m



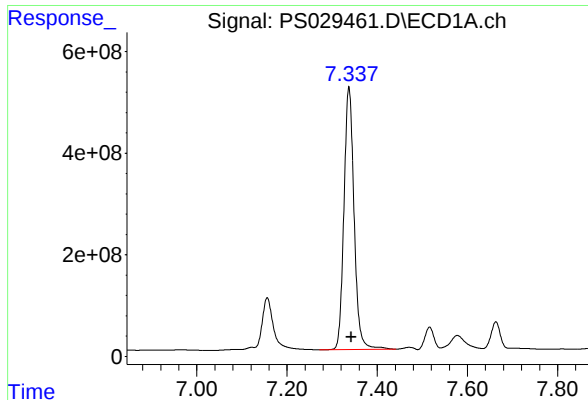
#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.004 min
Response: 1842982507
Conc: 447.26 ng/ml



#4 2,4-DCAA

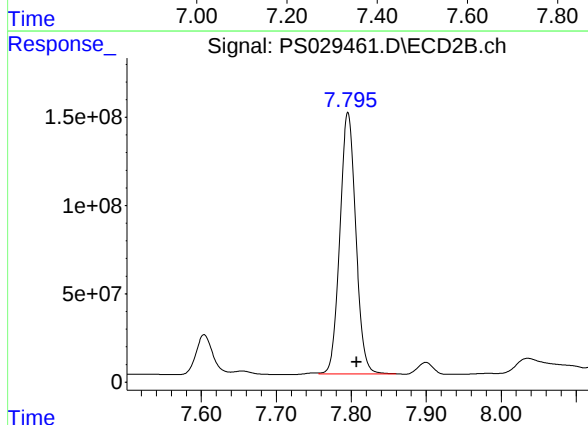
R.T.: 7.603 min
Delta R.T.: -0.012 min
Response: 353116634
Conc: 375.52 ng/ml m



#5 DICAMBA

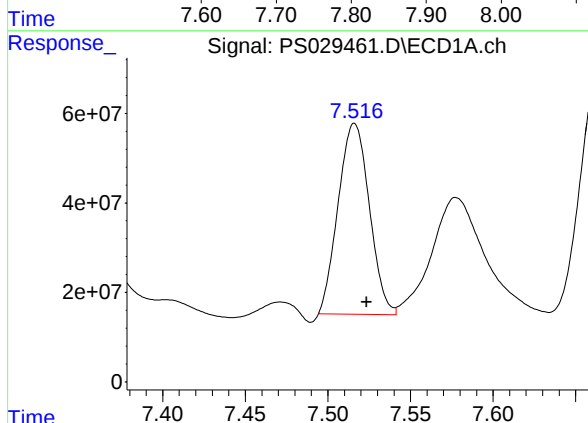
R.T.: 7.337 min
Delta R.T.: -0.005 min
Response: 8050301361
Conc: 463.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



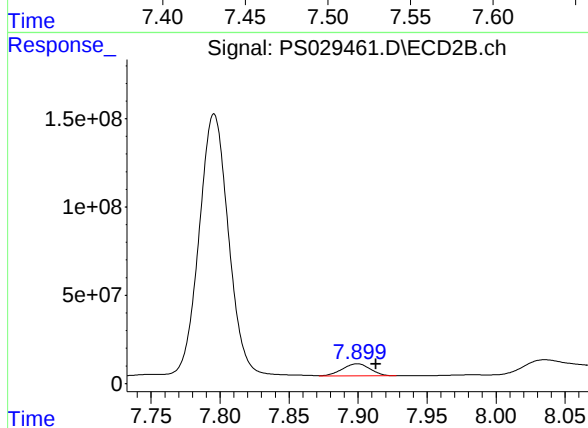
#5 DICAMBA

R.T.: 7.795 min
Delta R.T.: -0.012 min
Response: 2184770278
Conc: 423.98 ng/ml m



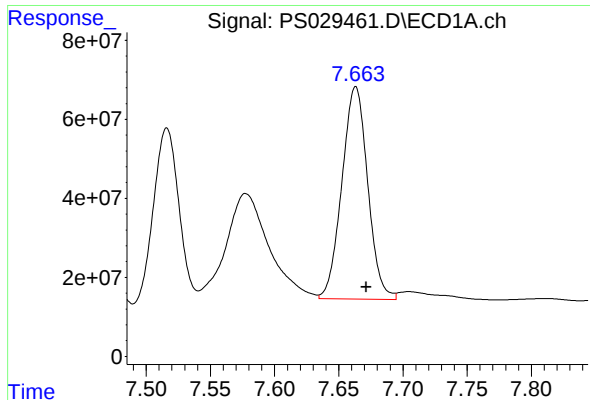
#6 MCPP

R.T.: 7.516 min
Delta R.T.: -0.007 min
Response: 560859259
Conc: 45.50 ug/ml



#6 MCPP

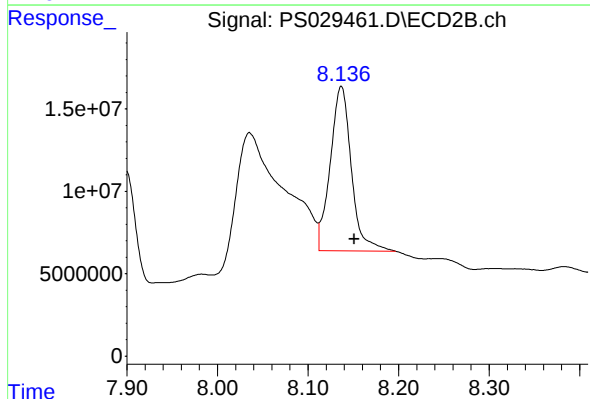
R.T.: 7.899 min
Delta R.T.: -0.014 min
Response: 95980342
Conc: 41.03 ug/ml m



#7 MCPA

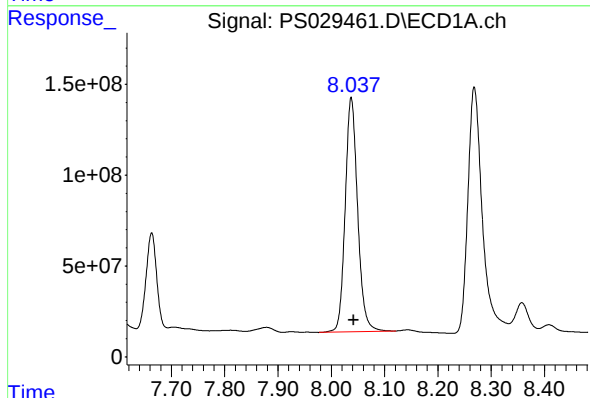
R.T.: 7.663 min
Delta R.T.: -0.008 min
Response: 753303358
Conc: 44.45 ug/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



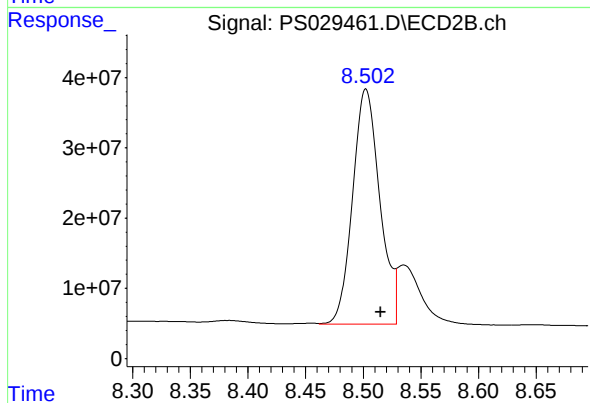
#7 MCPA

R.T.: 8.136 min
Delta R.T.: -0.015 min
Response: 161652361
Conc: 50.68 ug/ml



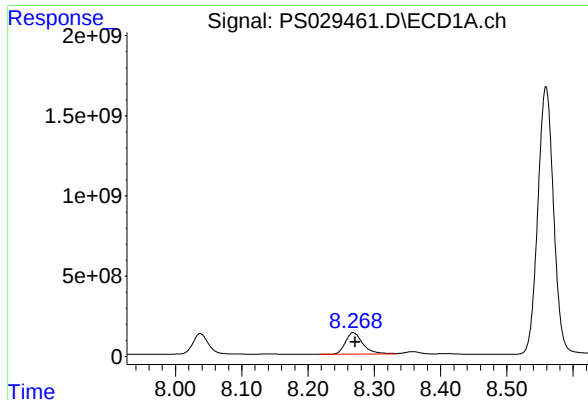
#8 DICHLORPROP

R.T.: 8.037 min
Delta R.T.: -0.004 min
Response: 2087814949
Conc: 454.22 ng/ml



#8 DICHLORPROP

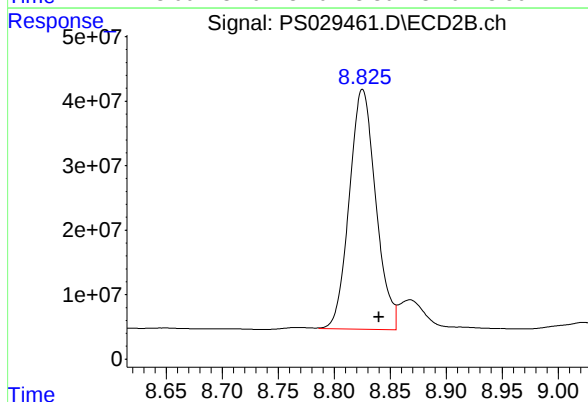
R.T.: 8.502 min
Delta R.T.: -0.013 min
Response: 553399866
Conc: 432.76 ng/ml



#9 2,4-D

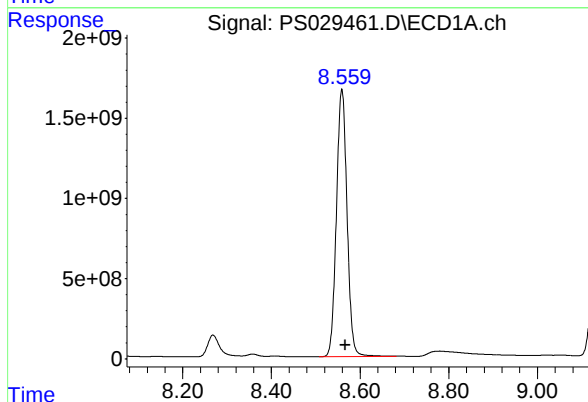
R.T.: 8.268 min
Delta R.T.: -0.003 min
Response: 2492393923
Conc: 524.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



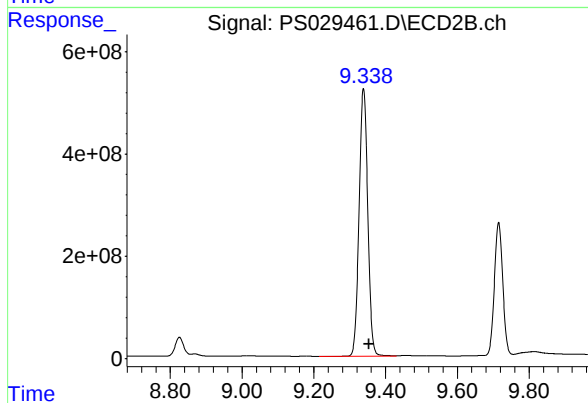
#9 2,4-D

R.T.: 8.825 min
Delta R.T.: -0.015 min
Response: 613822961
Conc: 483.36 ng/ml



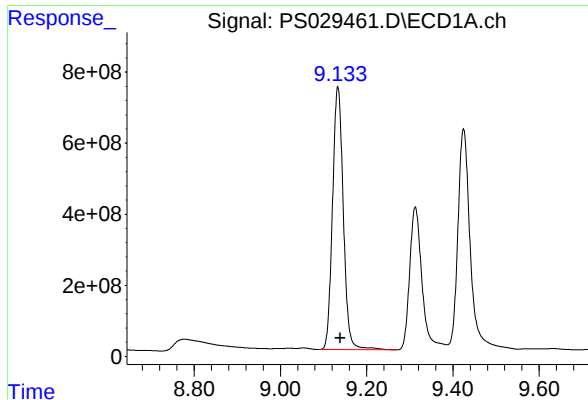
#10 Pentachlorophenol

R.T.: 8.559 min
Delta R.T.: -0.008 min
Response: 27675778072
Conc: 474.26 ng/ml



#10 Pentachlorophenol

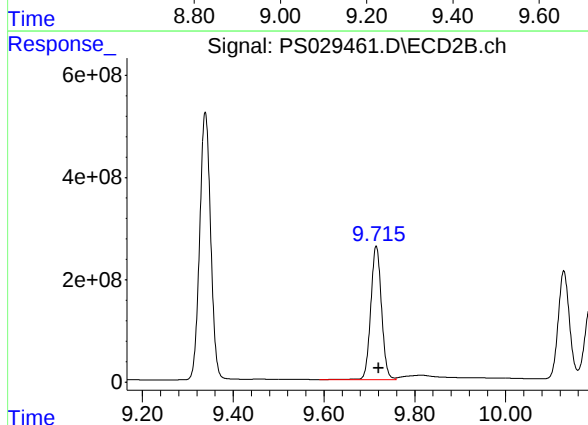
R.T.: 9.338 min
Delta R.T.: -0.015 min
Response: 8792621231
Conc: 382.08 ng/ml



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

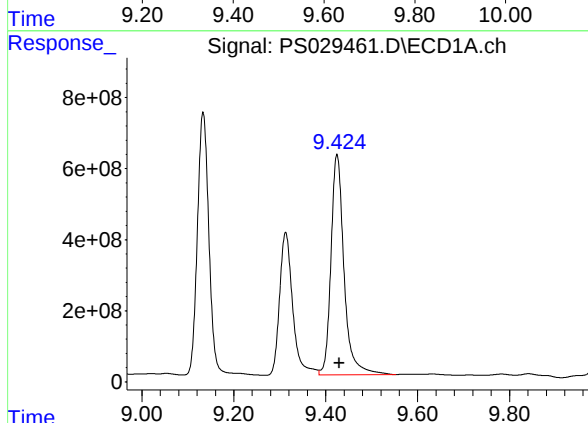
R.T.: 9.133 min
Delta R.T.: -0.005 min
Response: 12867596653
Conc: 523.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



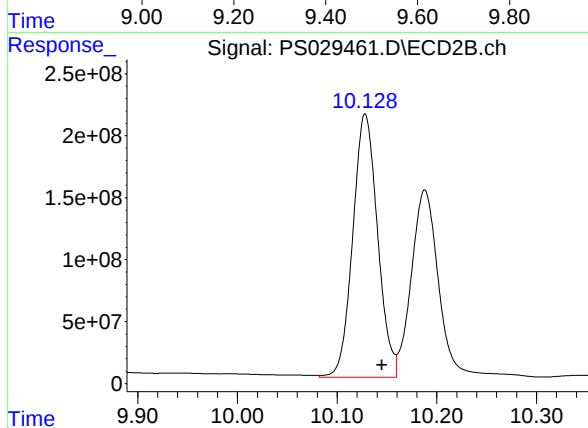
#11 2,4,5-TP (SILVEX)

R.T.: 9.715 min
Delta R.T.: -0.005 min
Response: 4295826928
Conc: 475.38 ng/ml



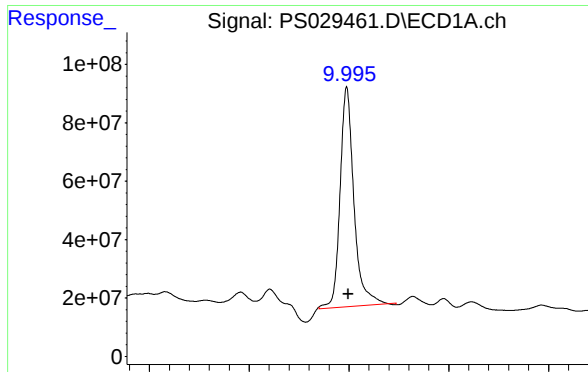
#12 2,4,5-T

R.T.: 9.425 min
Delta R.T.: -0.005 min
Response: 12273773662
Conc: 481.54 ng/ml



#12 2,4,5-T

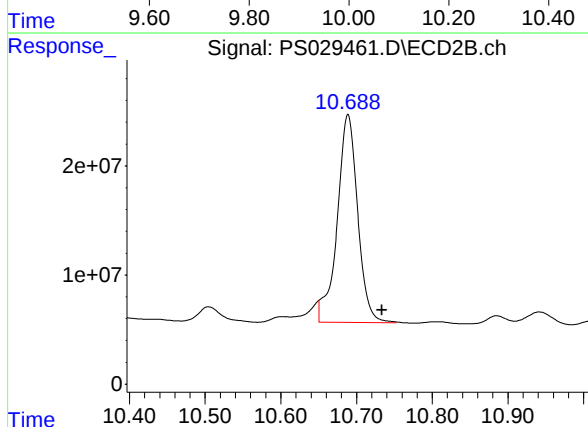
R.T.: 10.128 min
Delta R.T.: -0.017 min
Response: 3663188357
Conc: 446.17 ng/ml



#13 2,4-DB

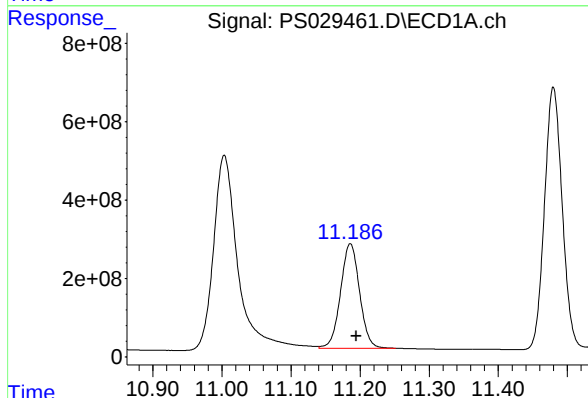
R.T.: 9.995 min
Delta R.T.: -0.003 min
Response: 1450517873
Conc: 347.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



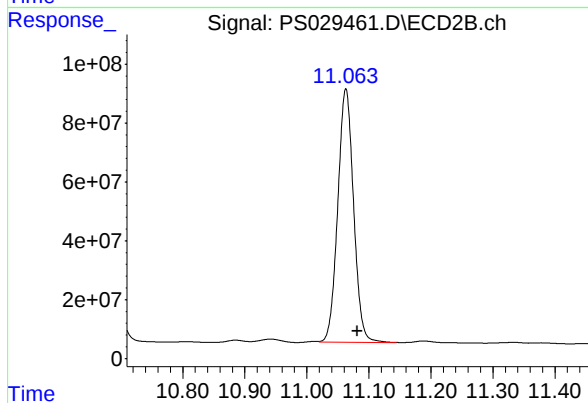
#13 2,4-DB

R.T.: 10.688 min
Delta R.T.: -0.045 min
Response: 356914139
Conc: 466.19 ng/ml



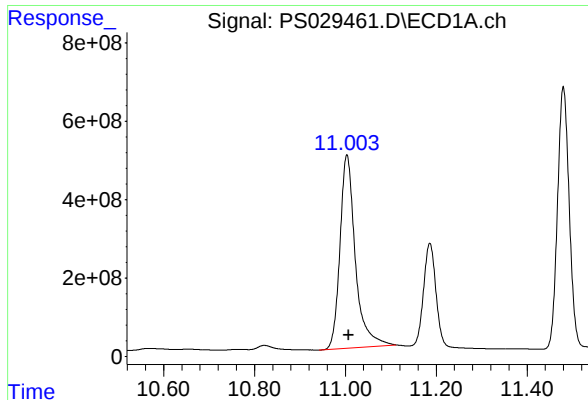
#14 DINOSEB

R.T.: 11.186 min
Delta R.T.: -0.009 min
Response: 5093763343
Conc: 306.28 ng/ml



#14 DINOSEB

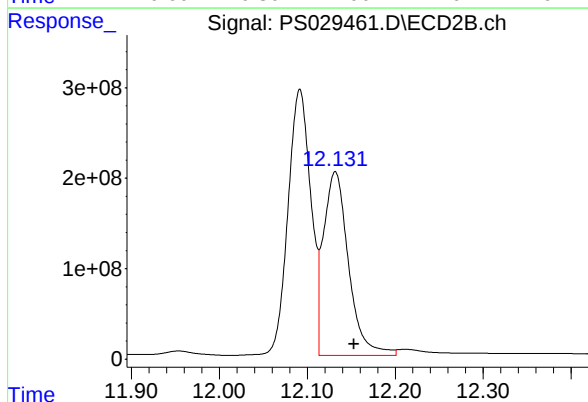
R.T.: 11.063 min
Delta R.T.: -0.018 min
Response: 1525201522
Conc: 251.62 ng/ml



#15 Picloram

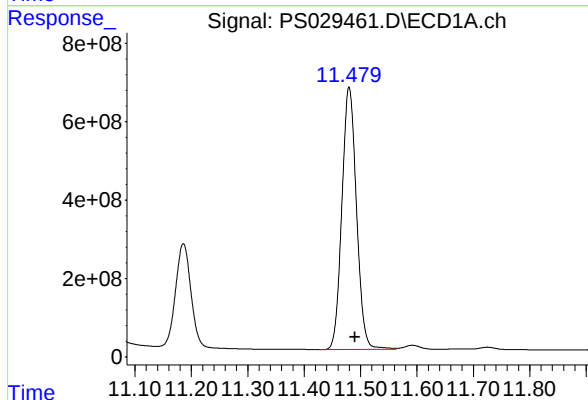
R.T.: 11.003 min
Delta R.T.: -0.003 min
Response: 11562753494
Conc: 378.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MS



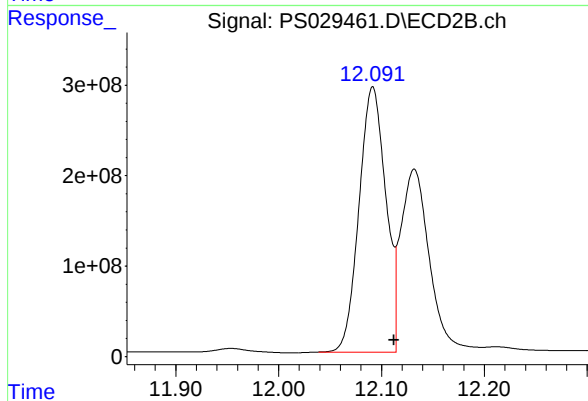
#15 Picloram

R.T.: 12.131 min
Delta R.T.: -0.022 min
Response: 3981970404
Conc: 344.39 ng/ml m



#16 DCPA

R.T.: 11.480 min
Delta R.T.: -0.010 min
Response: 12061127799
Conc: 401.99 ng/ml



#16 DCPA

R.T.: 12.091 min
Delta R.T.: -0.021 min
Response: 5296627477
Conc: 447.48 ng/ml m

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-01MSD	SDG No.:	Q1569
Lab Sample ID:	Q1569-02MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029462.D	1	03/19/25 11:15	03/19/25 21:57	PB167214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	53.1		9.20	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	53.1		7.80	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	456		32 - 138		91%	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\PS031925\
 Data File : PS029462.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Mar 2025 21:57
 Operator : AR\AJ
 Sample : Q1569-02MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TAP-IDW-SOIL-031325-01MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 20 07:00:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 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	7.156	7.603	1877.9E6	358.1E6	455.741	380.826m
Target Compounds							
1) T	Dalapon	2.592	2.642	2044.6E6	722.6E6	370.376m	341.312m
2) T	3,5-DICHL...	6.338	6.580	2867.1E6	590.6E6	490.013	417.058m
3) T	4-Nitroph...	6.964	7.145	20938734	6543807	8.947m	8.205m
5) T	DICAMBA	7.338	7.795	8166.5E6	2231.9E6	470.262	433.125m
6) T	MCP	7.516	7.899	618.2E6	97603057	50.159m	41.726m
7) T	MCPA	7.664	8.136	738.6E6	159.1E6	43.586	49.879m
8) T	DICHLORPROP	8.038	8.502	2118.8E6	550.7E6	460.964	430.687m
9) T	2,4-D	8.269	8.825	2522.1E6	619.3E6	530.911	487.666m
10) T	Pentachlo...	8.560	9.338	28162.7E6	9022.8E6	482.600	392.081
11) T	2,4,5-TP ...	9.133	9.715	13059.6E6	4373.5E6	531.161	483.975
12) T	2,4,5-T	9.425	10.128	12447.8E6	3749.6E6	488.365	456.699
13) T	2,4-DB	9.996	10.688f	1444.7E6	354.0E6	345.992m	462.371m#
14) T	DINOSEB	11.186	11.062	5119.3E6	1556.2E6	307.822m	256.733m
15) T	Picloram	11.004	12.131	11786.1E6	4051.0E6	385.878	350.355
16) T	DCPA	11.480	12.091	12249.7E6	5487.0E6	408.276	463.566m

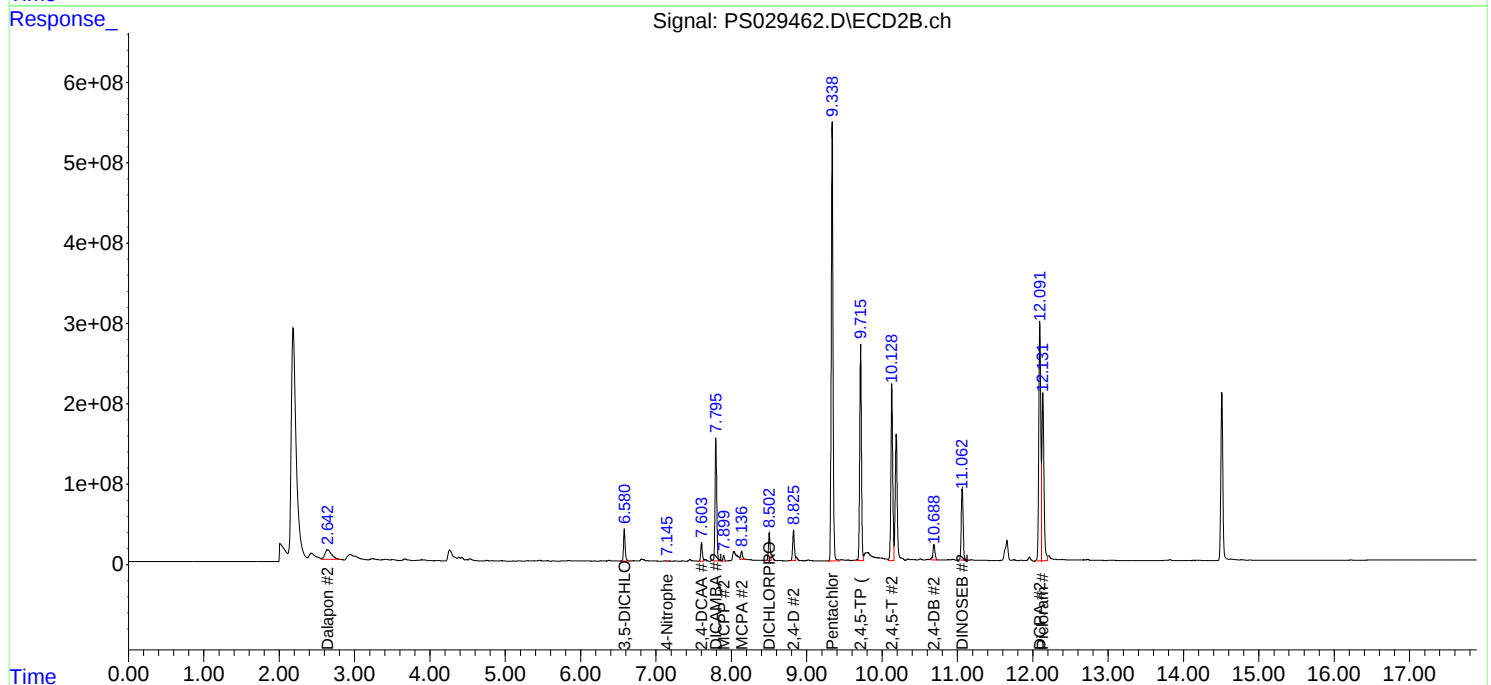
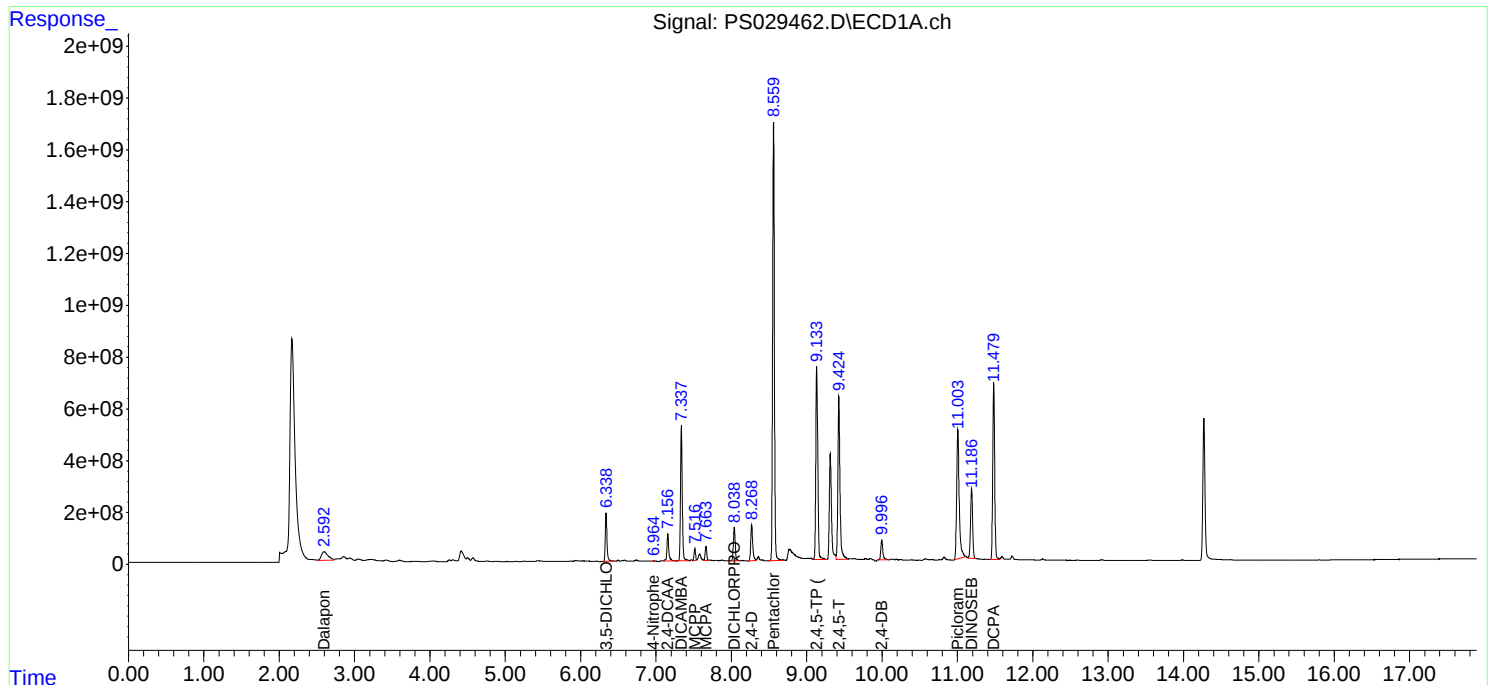
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

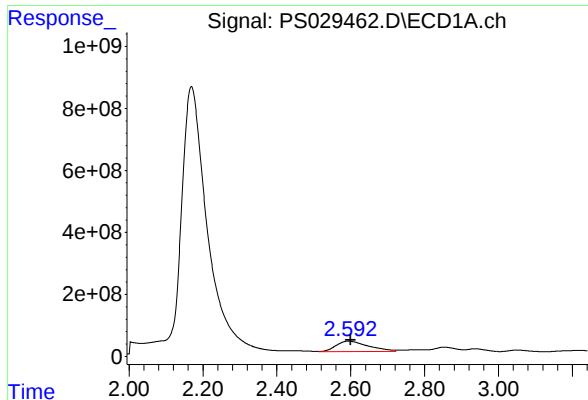
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS031925\
Data File : PS029462.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2025 21:57
Operator : AR\AJ
Sample : Q1569-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 20 07:00:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
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

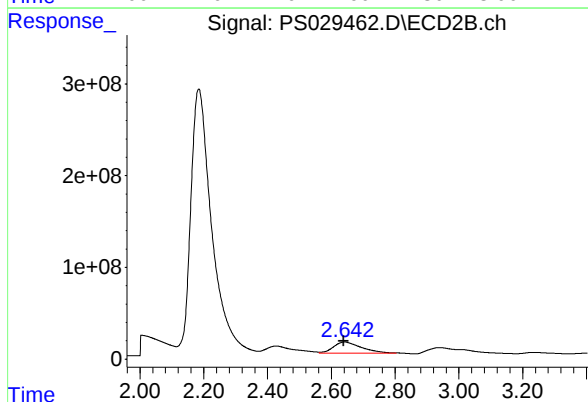




#1 Dalapon

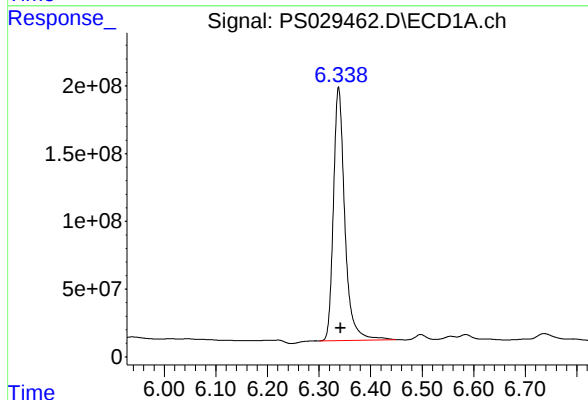
R.T.: 2.592 min
Delta R.T.: -0.008 min
Response: 2044580039
Conc: 370.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



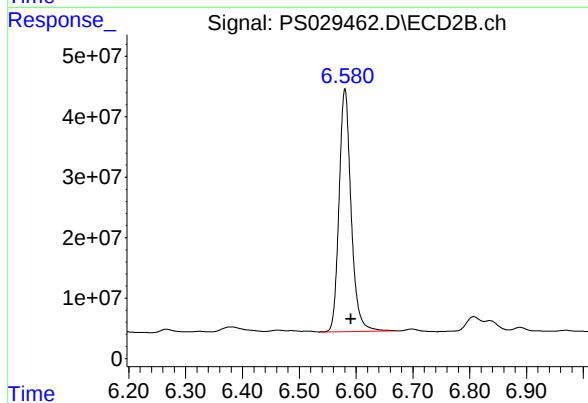
#1 Dalapon

R.T.: 2.642 min
Delta R.T.: 0.003 min
Response: 722599131
Conc: 341.31 ng/ml m



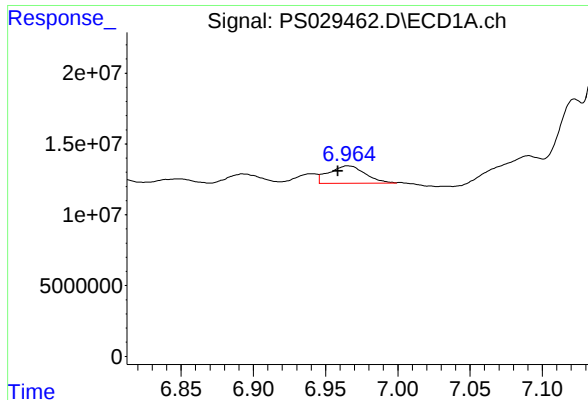
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.338 min
Delta R.T.: -0.003 min
Response: 2867126537
Conc: 490.01 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

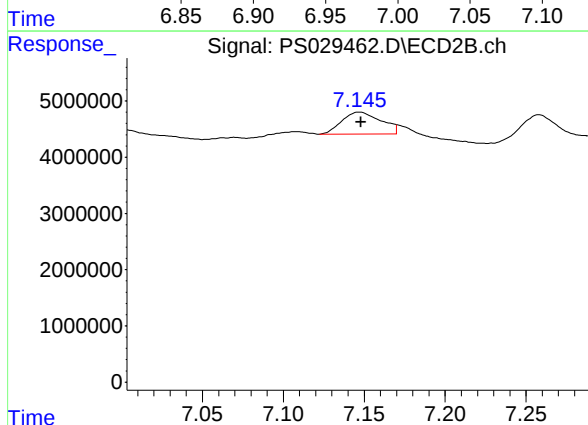
R.T.: 6.580 min
Delta R.T.: -0.011 min
Response: 590601539
Conc: 417.06 ng/ml m



#3 4-Nitrophenol

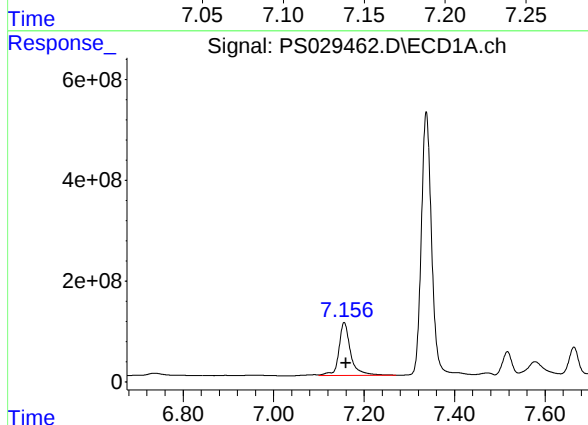
R.T.: 6.964 min
Delta R.T.: 0.006 min
Response: 20938734
Conc: 8.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



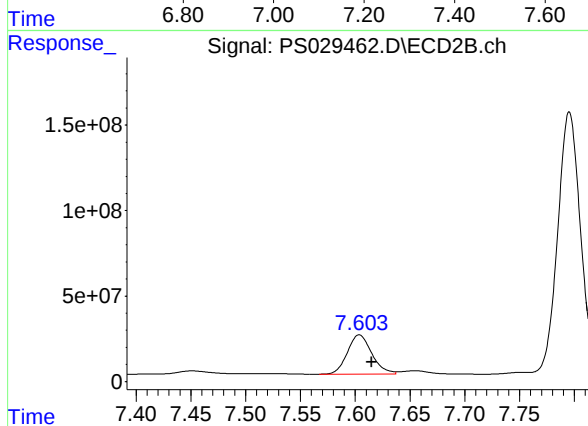
#3 4-Nitrophenol

R.T.: 7.145 min
Delta R.T.: -0.003 min
Response: 6543807
Conc: 8.20 ng/ml m



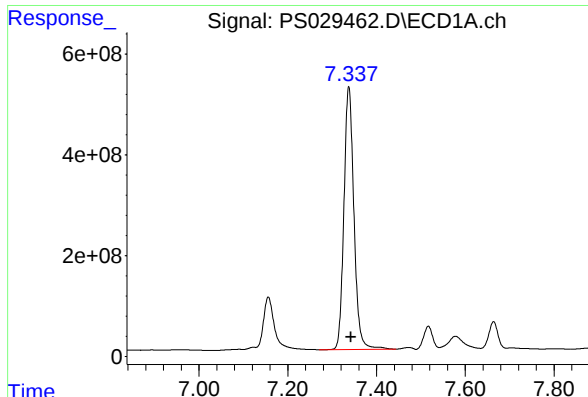
#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.004 min
Response: 1877914432
Conc: 455.74 ng/ml



#4 2,4-DCAA

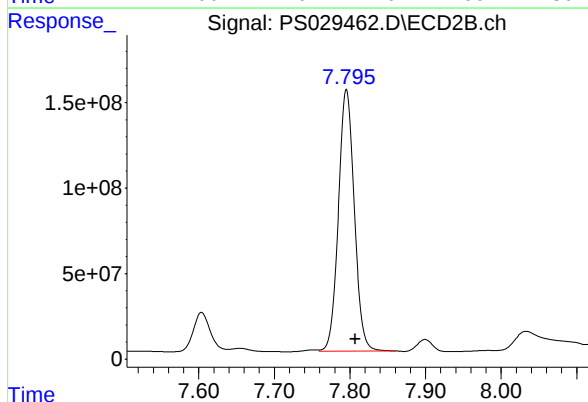
R.T.: 7.603 min
Delta R.T.: -0.012 min
Response: 358102946
Conc: 380.83 ng/ml m



#5 DICAMBA

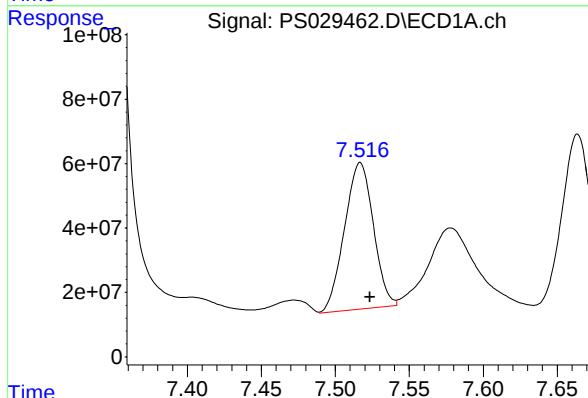
R.T.: 7.338 min
Delta R.T.: -0.005 min
Response: 8166547472
Conc: 470.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



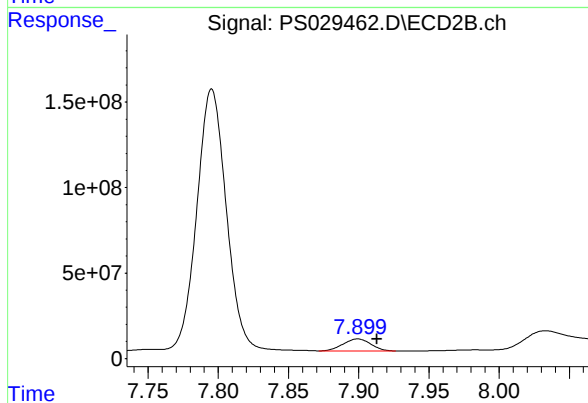
#5 DICAMBA

R.T.: 7.795 min
Delta R.T.: -0.012 min
Response: 2231878130
Conc: 433.12 ng/ml m



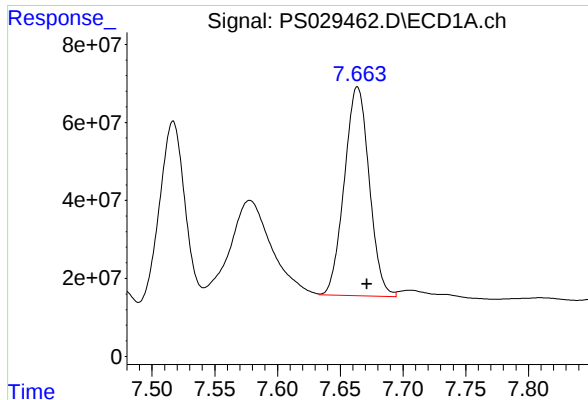
#6 MCPP

R.T.: 7.516 min
Delta R.T.: -0.007 min
Response: 618245212
Conc: 50.16 ug/ml m



#6 MCPP

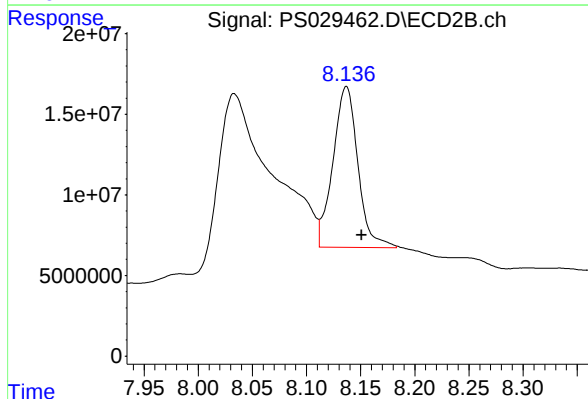
R.T.: 7.899 min
Delta R.T.: -0.014 min
Response: 97603057
Conc: 41.73 ug/ml m



#7 MCPA

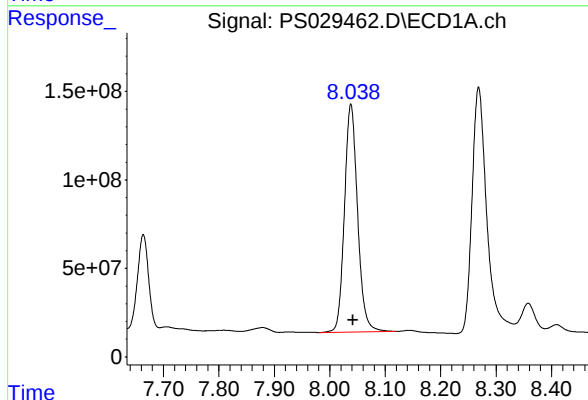
R.T.: 7.664 min
Delta R.T.: -0.008 min
Response: 738571568
Conc: 43.59 ug/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



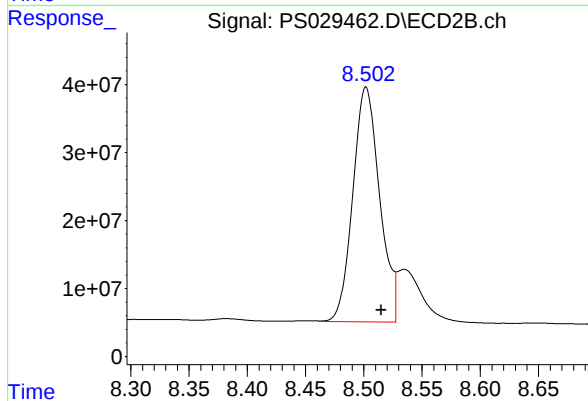
#7 MCPA

R.T.: 8.136 min
Delta R.T.: -0.014 min
Response: 159100708
Conc: 49.88 ug/ml



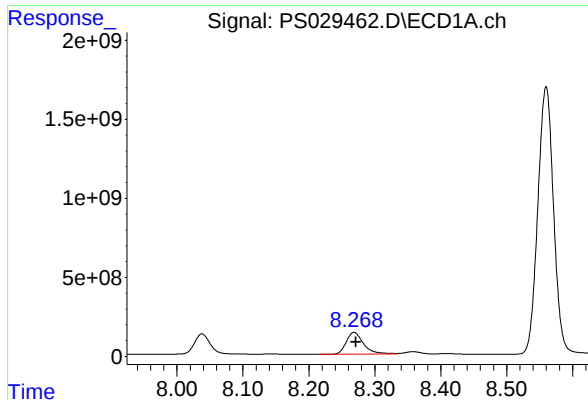
#8 DICHLORPROP

R.T.: 8.038 min
Delta R.T.: -0.004 min
Response: 2118802485
Conc: 460.96 ng/ml



#8 DICHLORPROP

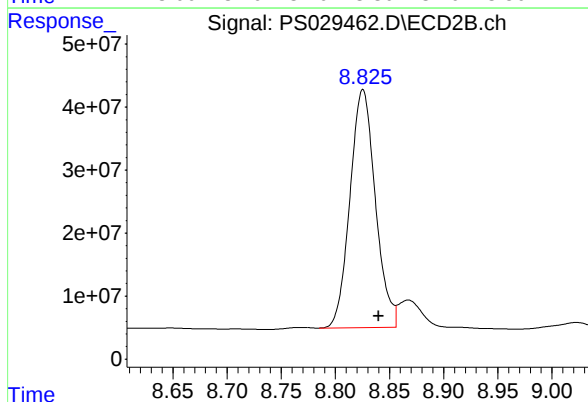
R.T.: 8.502 min
Delta R.T.: -0.013 min
Response: 550745834
Conc: 430.69 ng/ml



#9 2,4-D

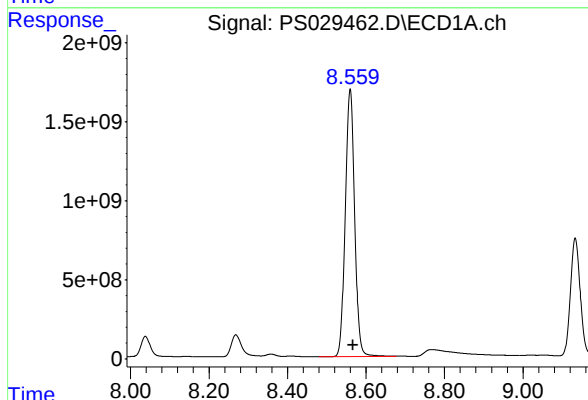
R.T.: 8.269 min
Delta R.T.: -0.003 min
Response: 2522056441
Conc: 530.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



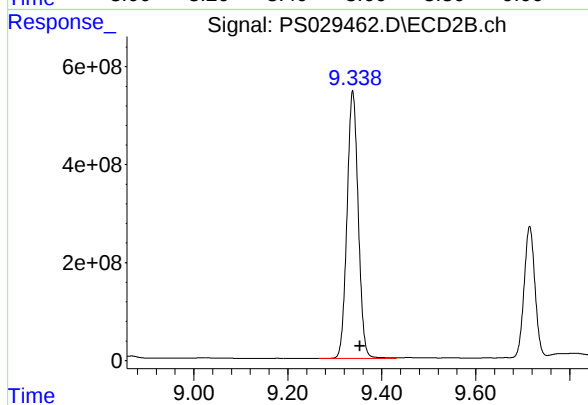
#9 2,4-D

R.T.: 8.825 min
Delta R.T.: -0.015 min
Response: 619285100
Conc: 487.67 ng/ml



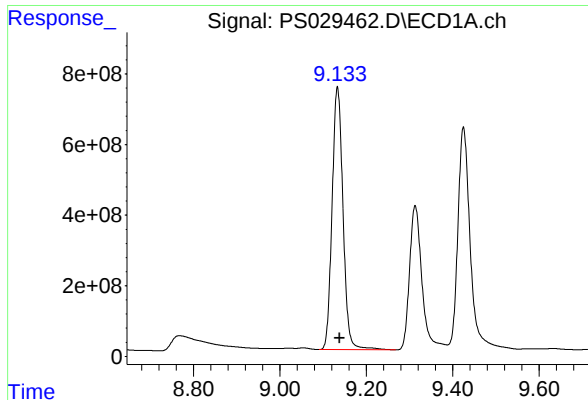
#10 Pentachlorophenol

R.T.: 8.560 min
Delta R.T.: -0.007 min
Response: 28162684369
Conc: 482.60 ng/ml



#10 Pentachlorophenol

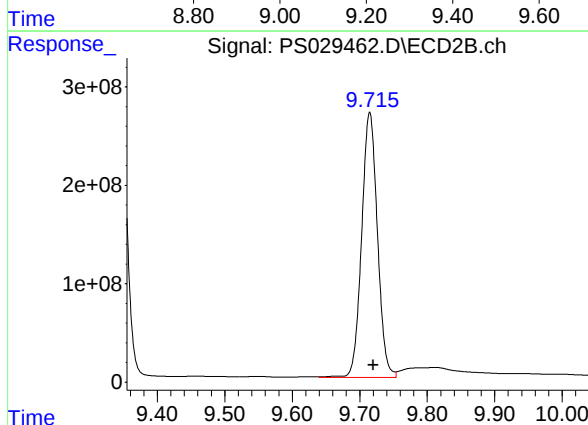
R.T.: 9.338 min
Delta R.T.: -0.016 min
Response: 9022828625
Conc: 392.08 ng/ml



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

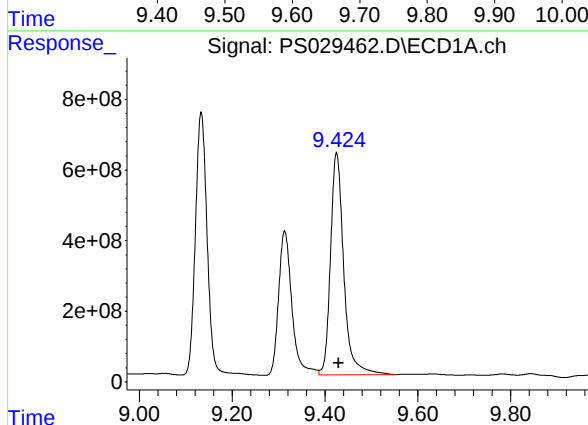
R.T.: 9.133 min
Delta R.T.: -0.005 min
Response: 13059627836
Conc: 531.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



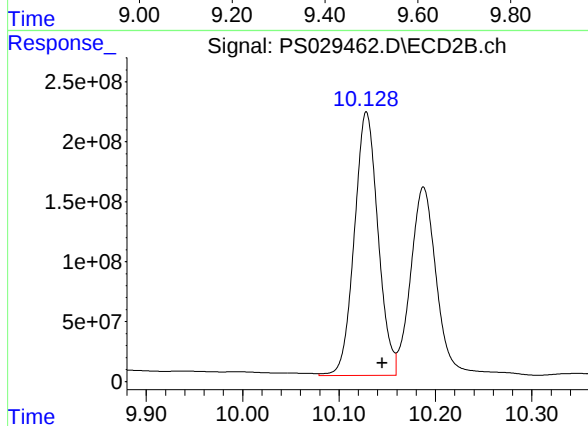
#11 2,4,5-TP (SILVEX)

R.T.: 9.715 min
Delta R.T.: -0.005 min
Response: 4373539675
Conc: 483.98 ng/ml



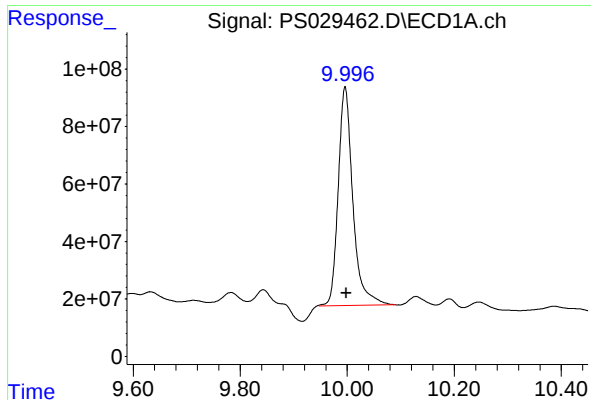
#12 2,4,5-T

R.T.: 9.425 min
Delta R.T.: -0.004 min
Response: 12447799729
Conc: 488.37 ng/ml



#12 2,4,5-T

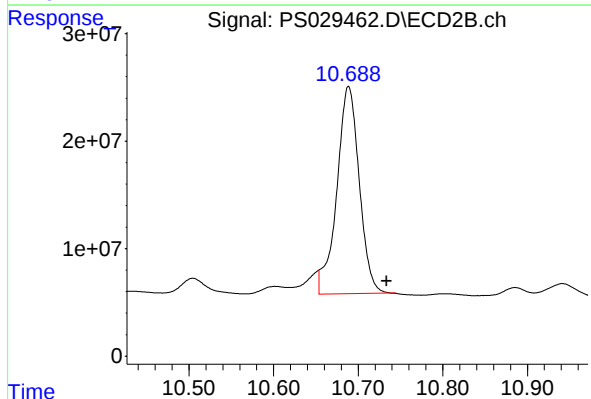
R.T.: 10.128 min
Delta R.T.: -0.017 min
Response: 3749634682
Conc: 456.70 ng/ml



#13 2,4-DB

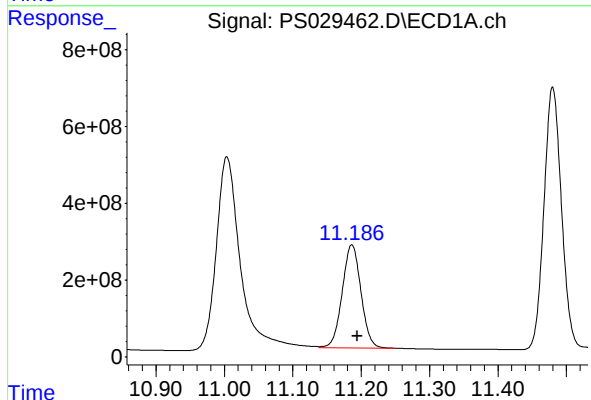
R.T.: 9.996 min
Delta R.T.: -0.003 min
Response: 1444666228
Conc: 345.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



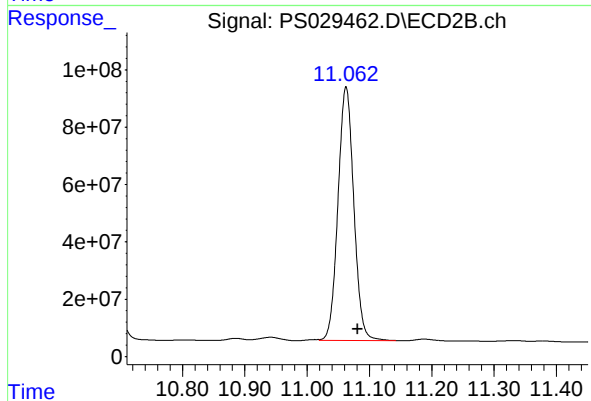
#13 2,4-DB

R.T.: 10.688 min
Delta R.T.: -0.046 min
Response: 353987394
Conc: 462.37 ng/ml



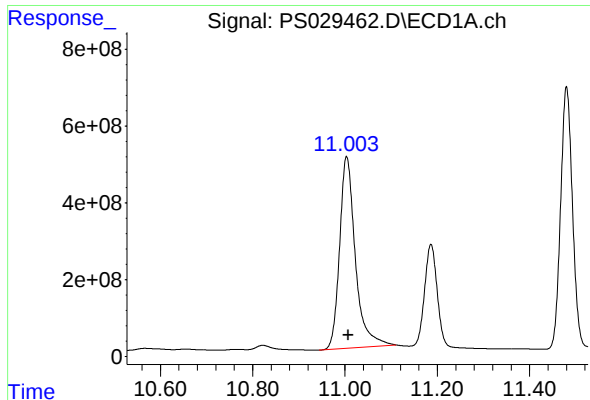
#14 DINOSEB

R.T.: 11.186 min
Delta R.T.: -0.008 min
Response: 5119338771
Conc: 307.82 ng/ml



#14 DINOSEB

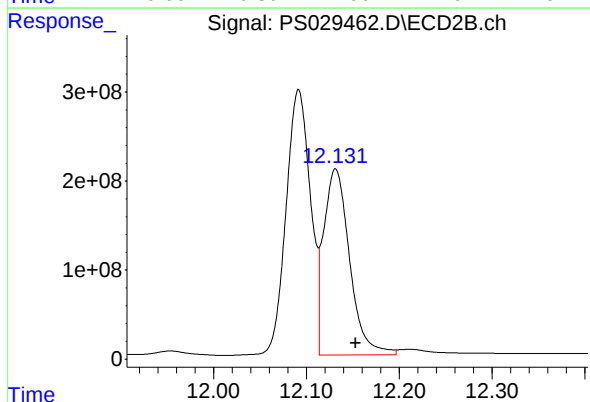
R.T.: 11.062 min
Delta R.T.: -0.019 min
Response: 1556193084
Conc: 256.73 ng/ml



#15 Picloram

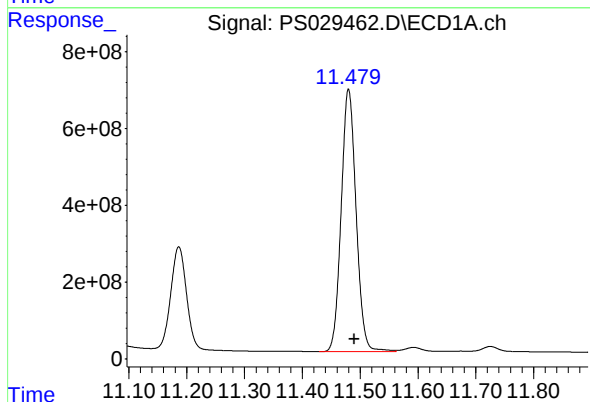
R.T.: 11.004 min
Delta R.T.: -0.003 min
Response: 11786056825
Conc: 385.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-031325-01MSD



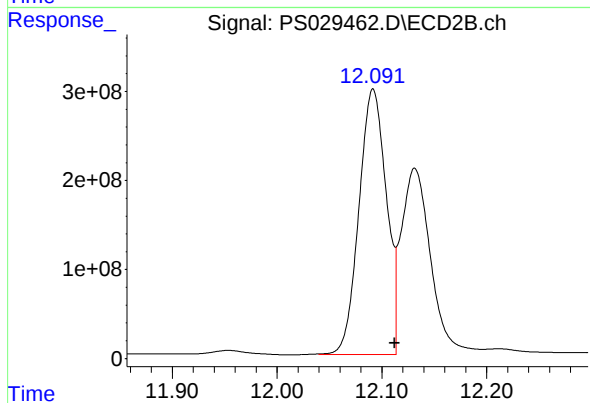
#15 Picloram

R.T.: 12.131 min
Delta R.T.: -0.022 min
Response: 4050958218
Conc: 350.36 ng/ml



#16 DCPA

R.T.: 11.480 min
Delta R.T.: -0.010 min
Response: 12249685431
Conc: 408.28 ng/ml



#16 DCPA

R.T.: 12.091 min
Delta R.T.: -0.021 min
Response: 5487028194
Conc: 463.57 ng/ml m



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Manual Integration Report

Sequence:

ps022125

Instrument

ECD_s

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	PS031925	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS029452.D	2,4-DCAA	Abdul	3/20/2025 8:45:59 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029453.D	2,4-DB #2	Abdul	3/20/2025 8:46:03 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029453.D	D CPA #2	Abdul	3/20/2025 8:46:03 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029453.D	DINOSEB	Abdul	3/20/2025 8:46:03 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029453.D	DINOSEB #2	Abdul	3/20/2025 8:46:03 AM	 	 	Peak Integrated by Software
PB167214BS	PS029455.D	2,4-DB #2	Abdul	3/20/2025 8:46:07 AM	 	 	Peak Integrated by Software
PB167214BS	PS029455.D	DICAMBA #2	Abdul	3/20/2025 8:46:07 AM	 	 	Peak Integrated by Software
PB167214BS	PS029455.D	DINOSEB	Abdul	3/20/2025 8:46:07 AM	 	 	Peak Integrated by Software
PB167214BS	PS029455.D	DINOSEB #2	Abdul	3/20/2025 8:46:07 AM	 	 	Peak Integrated by Software
PB167214BS	PS029455.D	Picloram	Abdul	3/20/2025 8:46:07 AM	 	 	Peak Integrated by Software
I.BLK	PS029458.D	2,4-DCAA	Abdul	3/20/2025 8:46:19 AM	 	 	Peak Integrated by Software
I.BLK	PS029458.D	2,4-DCAA #2	Abdul	3/20/2025 8:46:19 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029459.D	2,4-D #2	Abdul	3/20/2025 8:46:23 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:	PS031925	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029459.D	2,4-DB #2	Abdul	3/20/2025 8:46:23 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029459.D	2,4-DCAA #2	Abdul	3/20/2025 8:46:23 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029459.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	3/20/2025 8:46:23 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029459.D	DICAMBA #2	Abdul	3/20/2025 8:46:23 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029459.D	DINOSEB	Abdul	3/20/2025 8:46:23 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029459.D	DINOSEB #2	Abdul	3/20/2025 8:46:23 AM	 	 	Peak Integrated by Software
Q1569-02	PS029460.D	2,4-DCAA #2	Abdul	3/20/2025 8:46:27 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	2,4-D #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	2,4-DB	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	2,4-DB #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	2,4-DCAA #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	4-Nitrophenol	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:	PS031925	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1569-02MS	PS029461.D	4-Nitrophenol #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	Dalapon	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	Dalapon #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	DCPA #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	DICAMBA #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	DICHLORPROP #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	DINOSEB	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	DINOSEB #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	MCPA #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	MCPP #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MS	PS029461.D	Picloram #2	Abdul	3/20/2025 8:46:31 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	2,4-D #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	2,4-DB	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:

PS031925

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1569-02MSD	PS029462.D	2,4-DB #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	2,4-DCAA #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	4-Nitrophenol	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	4-Nitrophenol #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	Dalapon	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	Dalapon #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	DCPA #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	DICAMBA #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	DICHLORPROP #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	DINOSEB	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	DINOSEB #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	MCPA #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:

PS031925

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1569-02MSD	PS029462.D	MCPD	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-02MSD	PS029462.D	MCPD #2	Abdul	3/20/2025 8:46:38 AM	 	 	Peak Integrated by Software
Q1569-05	PS029463.D	2,4-DCAA #2	Abdul	3/20/2025 8:46:43 AM	 	 	Peak Integrated by Software
I.BLK	PS029467.D	2,4-DCAA	Abdul	3/20/2025 8:47:03 AM	 	 	Peak Integrated by Software
I.BLK	PS029467.D	2,4-DCAA #2	Abdul	3/20/2025 8:47:03 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	2,4-D #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	2,4-DB #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	2,4-DCAA #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	4-Nitrophenol #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	DCPA #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	DICAMBA #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029468.D	DINOSEB	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software



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Manual Integration Report

Sequence:	PS031925	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029468.D	DINOSEB #2	Abdul	3/20/2025 8:47:13 AM	 	 	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM
SubDirectory	PS022125	HP Acquire Method	HP Processing Method ps0221258151
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	PS029232.D	21 Feb 2025 19:08	AR\AJ	Ok
2	I.BLK	PS029233.D	21 Feb 2025 19:32	AR\AJ	Ok
3	HSTDICC200	PS029234.D	21 Feb 2025 19:56	AR\AJ	Ok
4	HSTDICC500	PS029235.D	21 Feb 2025 20:20	AR\AJ	Ok
5	HSTDICC750	PS029236.D	21 Feb 2025 20:44	AR\AJ	Ok
6	HSTDICC1000	PS029237.D	21 Feb 2025 21:08	AR\AJ	Ok
7	HSTDICC1500	PS029238.D	21 Feb 2025 21:32	AR\AJ	Ok
8	HSTDICV750	PS029239.D	21 Feb 2025 21:56	AR\AJ	Ok
9	I.BLK	PS029240.D	21 Feb 2025 22:20	AR\AJ	Ok
10	HSTDCCC750	PS029241.D	21 Feb 2025 22:44	AR\AJ	Ok
11	Q1383-03	PS029242.D	21 Feb 2025 23:08	AR\AJ	Ok,M
12	Q1383-05	PS029243.D	21 Feb 2025 23:32	AR\AJ	Ok,M
13	Q1383-07	PS029244.D	21 Feb 2025 23:56	AR\AJ	Ok,M
14	Q1383-09	PS029245.D	22 Feb 2025 00:20	AR\AJ	Ok,M
15	Q1383-11	PS029246.D	22 Feb 2025 00:44	AR\AJ	Ok,M
16	Q1383-13	PS029247.D	22 Feb 2025 01:08	AR\AJ	ReRun
17	Q1383-15	PS029248.D	22 Feb 2025 01:32	AR\AJ	Ok,M
18	Q1383-17	PS029249.D	22 Feb 2025 01:56	AR\AJ	Ok
19	Q1383-19	PS029250.D	22 Feb 2025 02:20	AR\AJ	Ok
20	I.BLK	PS029251.D	22 Feb 2025 02:44	AR\AJ	Ok
21	HSTDCCC750	PS029252.D	22 Feb 2025 03:08	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS031925

Review By	Abdul	Review On	3/20/2025 8:47:39 AM
Supervise By		Supervise On	
SubDirectory	PS031925	HP Acquire Method	HP Processing Method ps022125 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	PS029451.D	19 Mar 2025 08:50	AR\AJ	Ok
2	I.BLK	PS029452.D	19 Mar 2025 09:14	AR\AJ	Ok,NS
3	HSTDCCC750	PS029453.D	19 Mar 2025 10:02	AR\AJ	Ok,NS
4	PB167214BL	PS029454.D	19 Mar 2025 17:58	AR\AJ	Ok
5	PB167214BS	PS029455.D	19 Mar 2025 18:21	AR\AJ	Ok,NS
6	PB167133TB	PS029456.D	19 Mar 2025 18:45	AR\AJ	Ok
7	PB167193TB	PS029457.D	19 Mar 2025 19:09	AR\AJ	Ok,NS
8	I.BLK	PS029458.D	19 Mar 2025 19:33	AR\AJ	Ok,NS
9	HSTDCCC750	PS029459.D	19 Mar 2025 19:57	AR\AJ	Ok,NS
10	Q1569-02	PS029460.D	19 Mar 2025 21:10	AR\AJ	Ok,NS
11	Q1569-02MS	PS029461.D	19 Mar 2025 21:34	AR\AJ	Ok,NS
12	Q1569-02MSD	PS029462.D	19 Mar 2025 21:57	AR\AJ	Ok,NS
13	Q1569-05	PS029463.D	19 Mar 2025 22:21	AR\AJ	Ok,NS
14	Q1597-02	PS029464.D	19 Mar 2025 22:45	AR\AJ	Ok,NS
15	Q1597-04	PS029465.D	19 Mar 2025 23:09	AR\AJ	Ok,NS
16	Q1597-06	PS029466.D	19 Mar 2025 23:33	AR\AJ	Ok,NS
17	I.BLK	PS029467.D	19 Mar 2025 23:57	AR\AJ	Ok,NS
18	HSTDCCC750	PS029468.D	20 Mar 2025 00:21	AR\AJ	Ok,NS

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM
SubDirectory	PS022125	HP Acquire Method	HP Processing Method ps0221258151

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	PS029232.D	21 Feb 2025 19:08		AR\AJ	Ok
2	I.BLK	I.BLK	PS029233.D	21 Feb 2025 19:32		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029234.D	21 Feb 2025 19:56		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029235.D	21 Feb 2025 20:20		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029236.D	21 Feb 2025 20:44	Method fail for comp 10	AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS029237.D	21 Feb 2025 21:08		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS029238.D	21 Feb 2025 21:32		AR\AJ	Ok
8	HSTDICV750	ICVPS022125	PS029239.D	21 Feb 2025 21:56		AR\AJ	Ok
9	I.BLK	I.BLK	PS029240.D	21 Feb 2025 22:20		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029241.D	21 Feb 2025 22:44		AR\AJ	Ok
11	Q1383-03	OU4-PCS-TC-12-02172	PS029242.D	21 Feb 2025 23:08		AR\AJ	Ok,M
12	Q1383-05	OU4-PCS-TC-13-02172	PS029243.D	21 Feb 2025 23:32		AR\AJ	Ok,M
13	Q1383-07	OU4-PCS-TC-14-02172	PS029244.D	21 Feb 2025 23:56		AR\AJ	Ok,M
14	Q1383-09	OU4-PCS-TC-15-02172	PS029245.D	22 Feb 2025 00:20		AR\AJ	Ok,M
15	Q1383-11	OU4-PCS-TC-16-02172	PS029246.D	22 Feb 2025 00:44		AR\AJ	Ok,M
16	Q1383-13	OU4-PCS-TC-17-02172	PS029247.D	22 Feb 2025 01:08	2,4-DCAA high in 1st column	AR\AJ	ReRun
17	Q1383-15	OU4-PCS-TC-18-02172	PS029248.D	22 Feb 2025 01:32		AR\AJ	Ok,M
18	Q1383-17	OU4-PCS-TC-19-02172	PS029249.D	22 Feb 2025 01:56		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM
SubDirectory	PS022125	HP Acquire Method	HP Processing Method ps0221258151

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

19	Q1383-19	OU4-PCS-TC-20-02172	PS029250.D	22 Feb 2025 02:20		AR\AJ	Ok
20	I.BLK	I.BLK	PS029251.D	22 Feb 2025 02:44		AR\AJ	Ok
21	HSTDCCC750	HSTDCCC750	PS029252.D	22 Feb 2025 03:08		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS031925

Review By	Abdul	Review On	3/20/2025 8:47:39 AM
Supervise By		Supervise On	
SubDirectory	PS031925	HP Acquire Method	HP Processing Method ps022125 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	PS029451.D	19 Mar 2025 08:50		AR\AJ	Ok
2	I.BLK	I.BLK	PS029452.D	19 Mar 2025 09:14		AR\AJ	Ok,NS
3	HSTDCCC750	HSTDCCC750	PS029453.D	19 Mar 2025 10:02		AR\AJ	Ok,NS
4	PB167214BL	PB167214BL	PS029454.D	19 Mar 2025 17:58		AR\AJ	Ok
5	PB167214BS	PB167214BS	PS029455.D	19 Mar 2025 18:21		AR\AJ	Ok,NS
6	PB167133TB	PB167133TB	PS029456.D	19 Mar 2025 18:45		AR\AJ	Ok
7	PB167193TB	PB167193TB	PS029457.D	19 Mar 2025 19:09		AR\AJ	Ok,NS
8	I.BLK	I.BLK	PS029458.D	19 Mar 2025 19:33		AR\AJ	Ok,NS
9	HSTDCCC750	HSTDCCC750	PS029459.D	19 Mar 2025 19:57	F flag in comp#13	AR\AJ	Ok,NS
10	Q1569-02	TAP-IDW-SOIL-031325	PS029460.D	19 Mar 2025 21:10		AR\AJ	Ok,NS
11	Q1569-02MS	TAP-IDW-SOIL-031325	PS029461.D	19 Mar 2025 21:34	Comp#14 recovery fail	AR\AJ	Ok,NS
12	Q1569-02MSD	TAP-IDW-SOIL-031325	PS029462.D	19 Mar 2025 21:57	Comp#14 recovery fail	AR\AJ	Ok,NS
13	Q1569-05	TAP-IDW-SOIL-031325	PS029463.D	19 Mar 2025 22:21		AR\AJ	Ok,NS
14	Q1597-02	1-CONCRETE-SLAB	PS029464.D	19 Mar 2025 22:45		AR\AJ	Ok,NS
15	Q1597-04	2-CONCRETE-SLAB	PS029465.D	19 Mar 2025 23:09		AR\AJ	Ok,NS
16	Q1597-06	3-CONCRETE-SLAB	PS029466.D	19 Mar 2025 23:33		AR\AJ	Ok,NS
17	I.BLK	I.BLK	PS029467.D	19 Mar 2025 23:57		AR\AJ	Ok,NS
18	HSTDCCC750	HSTDCCC750	PS029468.D	20 Mar 2025 00:21	F Flag in Comp#13	AR\AJ	Ok,NS

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS031925

Review By	Abdul	Review On	3/20/2025 8:47:39 AM
Supervise By		Supervise On	
SubDirectory	PS031925	HP Acquire Method	HP Processing Method ps022125 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		

M : Manual Integration

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pipette ID : WC

Tumbler ID : T-1

TCLP Filter ID : 115525

Start Prep Date : 03/14/2025 Time : 14:00

End Prep Date : 03/15/2025 Time : 08:30

Combination Ratio : 20

ZHE Cleaning Batch : ¹⁸N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : ¹⁸

Supervisor By : ¹²

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
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 U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
N/A	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 checked.30 rpm. Particle size reduction is not required. q1568-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/17/25 10:00	¹⁸ / TCLP Room	¹⁸ / Ext
	Preparation Group	Analysis Group

¹² met n'g

TCLP EXTRACTION LOGPAGE

PB167133

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167133TB	LEB133	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q1507-04	50-MIDDLESEX-AVE	01	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q1568-04	JC-03-03132025	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1569-02	TAP-IDW-SOIL-031325-01	03	100.01	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1569-05	TAP-IDW-SOIL-031325-02	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1574-02	WC1	05	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167133TB	LEB133	N/A	N/A	N/A	N/A	N/A	N/A
Q1507-04	50-MIDDLESEX-AVE	N/A	N/A	N/A	N/A	100	N/A
Q1568-04	JC-03-03132025	N/A	N/A	N/A	N/A	100	N/A
Q1569-02	TAP-IDW-SOIL-031325-01	N/A	N/A	N/A	N/A	100	N/A
Q1569-05	TAP-IDW-SOIL-031325-02	N/A	N/A	N/A	N/A	100	N/A
Q1574-02	WC1	N/A	N/A	N/A	N/A	100	N/A

Hot Block ID : WC S-1 /WC S-2

 Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167133TB	LEB133	N/A	N/A	N/A	N/A	#1	4.93
Q1507-04	50-MIDDLESEX-AVE	5.02	96.5	7.0	2.5	#1	4.93
Q1568-04	JC-03-03132025	5.01	96.5	7.0	2.5	#1	4.93
Q1569-02	TAP-IDW-SOIL-031325-01	5.03	96.5	6.8	2.0	#1	4.93
Q1569-05	TAP-IDW-SOIL-031325-02	5.04	96.5	10.0	4.0	#1	4.93
Q1574-02	WC1	5.03	96.5	6.8	2.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1569

WorkList ID : 188283

Department : TCLP Extraction

Date : 03-14-2025 11:14:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1507-04	50-MIDDLESEX-AVE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/06/2025	1311
Q1568-04	JC-03-03132025	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I41	03/13/2025	1311
Q1569-02	TAP-IDW-SOIL-031325-01	Solid	TCLP Extraction	Cool 4 deg C	WEST04	I33	03/13/2025	1311
Q1569-05	TAP-IDW-SOIL-031325-02	Solid	TCLP Extraction	Cool 4 deg C	WEST04		03/13/2025	1311
Q1574-02	WC1	Solid	TCLP Extraction	Cool 4 deg C	GENV01	I41	03/12/2025	1311

Date/Time 03/14/25 12:30

Raw Sample Received by: Jd wcll

Raw Sample Relinquished by: CP SM

Date/Time 03/14/25

Raw Sample Received by: CP SM

Raw Sample Relinquished by: Jd wcll

SOP ID:	M8151A-Herbicide-22		
Clean Up SOP #:	N/A	Extraction Start Date :	03/19/2025
Matrix :	Water	Extraction Start Time :	11:15
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RS
Balance ID:	N/A	Extraction End Date :	03/19/2025
pH Strip Lot#:	E3880	Extraction End Time :	17:30
		Concentration By:	EH
		Supervisor By :	RUPESH
Extraction Method:	☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24193
Surrogate	1.0ML	5000 PPB	PP24196
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
Ether	N/A	E3881
Acidified Na2SO4	N/A	EP2587
12N H2SO4	N/A	EP2552
NAOH 6N	N/A	EP2553
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2588
Hexane	N/A	E3914
NACL	N/A	M4459
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.

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
3/19/25	RS (Ext Lab)	T-P-Pest/PCB
17:35	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 03/19/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167133TB	PB167133TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-1
PB167193TB	PB167193TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			2
PB167214BL	HBLK214	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
PB167214BS	HLCS214	TCLP Herbicide	1000	6	RUPESH	ritesh	10			4
Q1569-02	TAP-IDW-SOIL-031325-01	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
Q1569-02MS	TAP-IDW-SOIL-031325-01MS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
Q1569-02MS D	TAP-IDW-SOIL-031325-01MSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7
Q1569-05	TAP-IDW-SOIL-031325-02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		8
Q1597-02	1-CONCRETE-SLAB	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		9
Q1597-04	2-CONCRETE-SLAB	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		10
Q1597-06	3-CONCRETE-SLAB	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		11

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167193TB	LEB193	06	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1
Q1590-01	3794	01	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-1
Q1592-02	OILY-DEBRIS-COMP	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1597-02	1-CONCRETE-SLAB	03	100.03	2000	N/A	N/A	N/A	10.5	1.5	T-1
Q1597-04	2-CONCRETE-SLAB	04	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q1597-06	3-CONCRETE-SLAB	05	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1

03/19/2025
11:00

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167133TB	LEB133	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q1507-04	50-MIDDLESEX-AVE	01	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q1568-04	JC-03-03132025	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1569-02	TAP-IDW-SOIL-031325-01	03	100.01	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1569-05	TAP-IDW-SOIL-031325-02	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1574-02	WC1	05	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1

03/17/25
70:00

Prep Standard - Chemical Standard Summary

Order ID : Q1569

Test : TCLP Herbicide

Prepbatch ID : PB167214,

Sequence ID/Qc Batch ID: PS031925,

Standard ID :

EP2552,EP2553,EP2587,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,PP2
4193,PP24196,

Chemical ID :

E3554,E3657,E3826,E3873,E3881,M5173,M5178,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P1
3510,P13511,P13512,P13513,P13526,P13527,P13528,W3112,

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>
3883	12N H2SO4 solution	EP2552	10/21/2024	04/21/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 10/21/2024

FROM 333.00000ml of M5173 + 667.00000ml of W3112 = Final Quantity: 1000.000 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>
3884	6 N NAOH	EP2553	10/21/2024	04/21/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/21/2024

FROM 1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml

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>
1762	1:3 H2SO4 Soln	EP2587	02/10/2025	08/10/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 02/10/2025

FROM 250.00000ml of M5178 + 750.00000ml of W3112 = Final Quantity: 1000.000 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>
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
<u>FROM</u> 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml 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>
1452	1500 PPB HERB MIX STD	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 0.25000ml of E3826 + 0.75000ml 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>
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

<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

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>
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

<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

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>
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

<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
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = 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>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP24193	02/12/2025	07/29/2025	Abdul Mirza	None	None	Ankita Jodhani
								02/13/2025

FROM 0.50000ml of P13528 + 1.00000ml of P13526 + 1.00000ml of P13527 + 47.50000ml of E3873 = 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)	PP24196	02/18/2025	07/29/2025	Abdul Mirza	None	None	Ankita Jodhani
								02/21/2025

FROM 1.25000ml of P13510 + 1.25000ml of P13511 + 1.25000ml of P13512 + 1.25000ml of P13513 + 195.00000ml of E3873 = Final Quantity: 200.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9335-02 / Iso-Octane (2,2,4-Trimethylpentane) Ultra Resi-Analyzed Grade	63160	11/05/2025	08/09/2023 / Rajesh	08/09/2023 / Rajesh	E3554

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

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)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC04977-3 / Ether, Anhydrous, Glass Distilled, HRGC/HPLC, 4L	242789	08/14/2025	02/14/2025 / Rajesh	01/06/2025 / Rajesh	E3881

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

CHEMICAL RECEIPT LOG BOOK

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	03/29/2026	05/25/2022 / william	04/05/2022 / william	M5178

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

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

CHEMICAL RECEIPT LOG BOOK

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

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 #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	08/18/2025	02/18/2025 / Abdul	08/16/2024 / yogesh	P13510

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	08/18/2025	02/18/2025 / Abdul	08/16/2024 / yogesh	P13511

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	08/18/2025	02/18/2025 / Abdul	08/16/2024 / yogesh	P13512

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	08/18/2025	02/18/2025 / Abdul	08/16/2024 / yogesh	P13513

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	0006810955	08/12/2025	02/12/2025 / Abdul	09/03/2024 / Abdul	P13526

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	0006810955	08/12/2025	02/12/2025 / Abdul	09/03/2024 / Abdul	P13526

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	0006810955	08/12/2025	02/12/2025 / Abdul	09/03/2024 / Abdul	P13527

CHEMICAL RECEIPT LOG BOOK

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	0006810955	08/12/2025	02/12/2025 / Abdul	09/03/2024 / Abdul	P13527

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	0006810955	08/12/2025	02/12/2025 / Abdul	09/03/2024 / Abdul	P13528

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	0006810955	08/12/2025	02/12/2025 / Abdul	09/03/2024 / Abdul	P13528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis



Date of Release: 6/9/2023
Name: 2,2,4-Trimethylpentane [Isooctane]
OmniSolv®
Item No: TX1389 all size codes
Lot / Batch No: 63160
Country of Origin: Germany

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay (GC)	99.5		> 99.99	%
Capillary ECD responsive substances (as PCNB)		5	0.24	ng/L
Color (APHA)		10	< 10	
Evaporation residue		1	< 0.5	ppm
Filtered through 0.2 µm filter			Passes test	
Fluorescence (as quinine base)		250	71	ppt
Form			Clear liquid	
Infrared Spectrum			Conforms	
Refractive index (at 20°C)			1.3915	
UV Abs. at 200 nm		1.00	0.137	AU
UV Abs. at 220 nm		0.05	0.024	AU
UV Abs. at 230 nm		0.02	0.003	AU
UV Abs. at 250 nm		0.005	0.003	AU
UV Abs. at 270 nm		0.005	0.002	AU
UV Abs. at 300 nm		0.005	0.004	AU
UV Cut-off		200	191.1	nm
Water (H ₂ O)		0.01	0.001	%

Michael Hutchinson,

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany
EMD Millipore Corporation
400 Summit Drive,
Burlington, MA 01803
U.S.A.

Recd by RP on 8/9/23

E3554



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

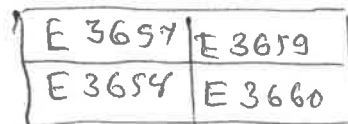
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



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)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	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)	$\leq 0.05 \%$	< 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.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

Recd. by RP on 1/29/25

E 3873

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

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT - 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	E199	Quality Test / Release Date	08/02/2024
Lot Number	242789	Expiration Date	Jun/2025
Description	ETHYL ETHER, PESTICIDE GRADE		
Country of Origin	Mexico		
Chemical Origin	Organic - synthetic		
BSE/TSE Comment	This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ASSAY	%	>= 99.5	99.97
COLOR	APHA	<= 10	5
EVAPORATION RESIDUE	ppm	<= 3	0.2
GC-ECD ANALYSIS	pg/ml	<= 10	<1
OPTICAL ABS AT 218 NM	ABSORBANCE UNITS	<= 1.00	0.19
OPTICAL ABS AT 250 NM	ABSORBANCE UNITS	<= 0.08	0.05
OPTICAL ABS AT 270 NM	ABSORBANCE UNITS	<= 0.02	0.01
OPTICAL ABS AT 300 NM	ABSORBANCE UNITS	<= 0.01	0.002
OPTICAL ABS AT 350 NM	ABSORBANCE UNITS	<= 0.01	<0.001
PEROXIDE	ppm	<= 5	<1
PRESERVATIVE - ETHANOL	%	Inclusive Between 1.5 - 2.5	1.8
WATER (H2O)	%	<= 0.08	0.003

Kalyan Paruchuri

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

E 3881

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
 If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

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

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

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:

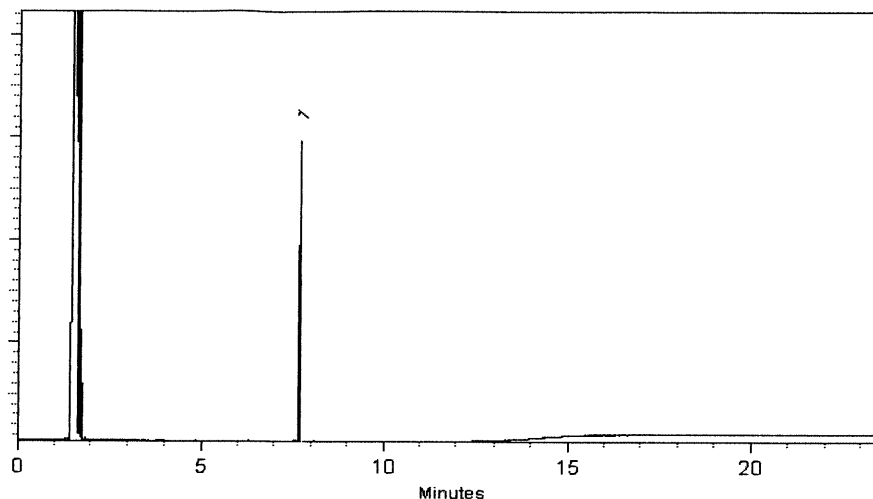
250°C

Det. Temp:

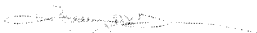
330°C

Det. Type:

FID

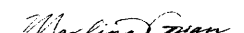


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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
—
AR
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:

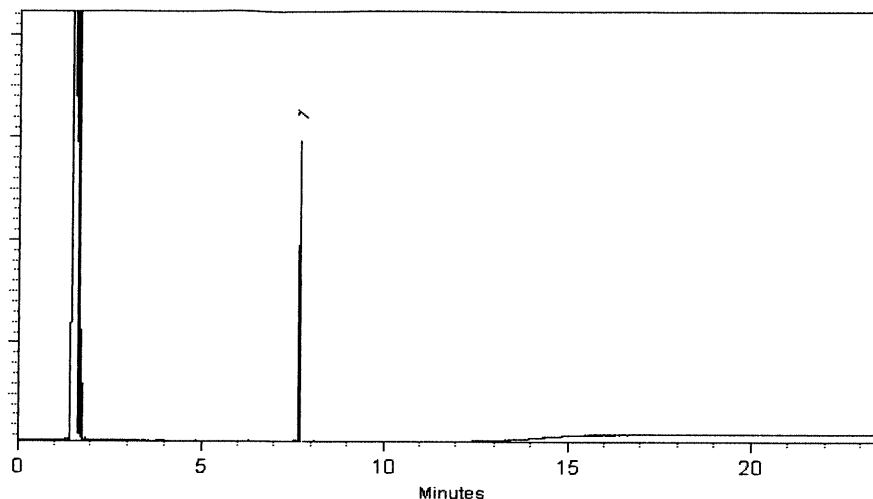
250°C

Det. Temp:

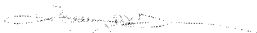
330°C

Det. Type:

FID

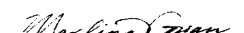


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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

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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
↓
P11186
AR
01/02/21



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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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:

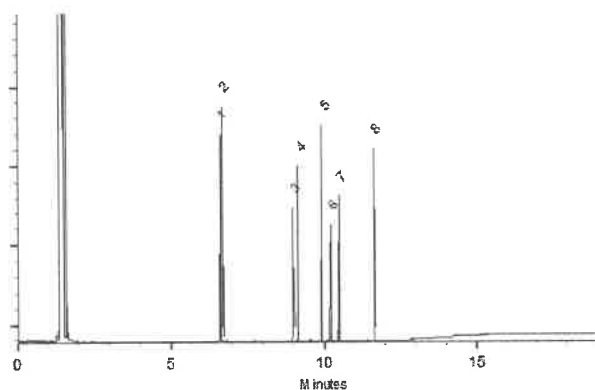
250°C

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



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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:

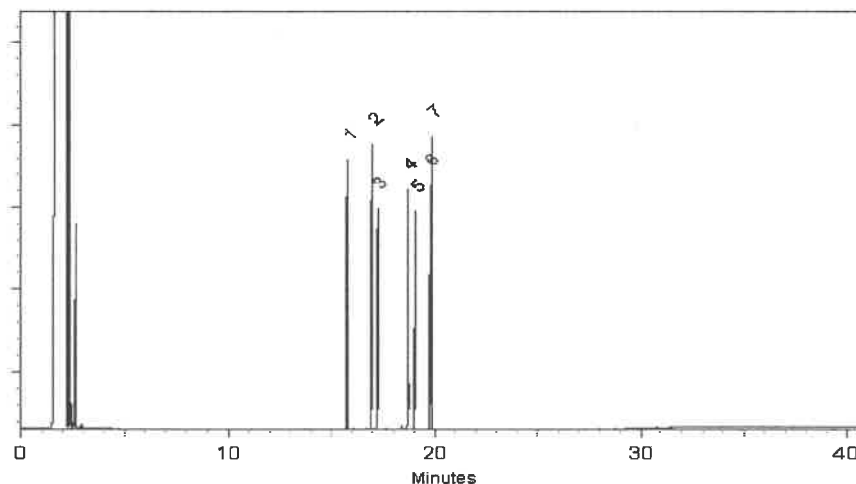
FID

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 - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905


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	MCPP (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:

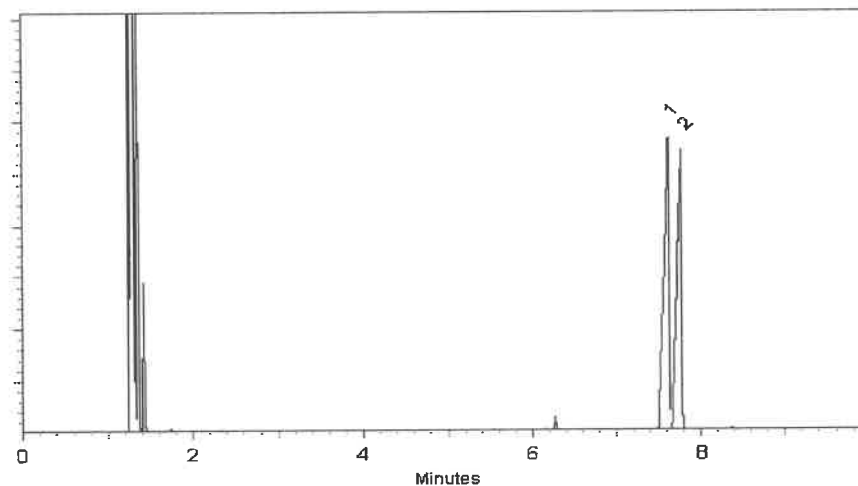
FID

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

Date Mixed: 12-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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.

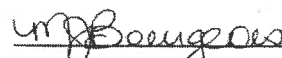
Expiration of Certification:

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

P12706 / (10)
↓
P12715
✓ 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.

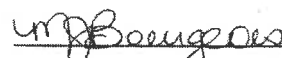
Expiration of Certification:

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

P12706 / (10)
↓
P12715
✓ 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



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Fax: 1-814-353-1309

www.restek.com

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:

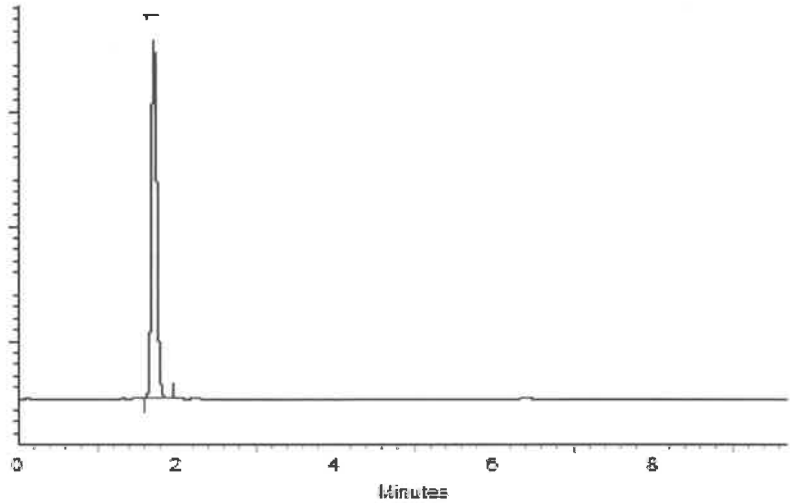
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

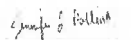


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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www.restek.com

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:

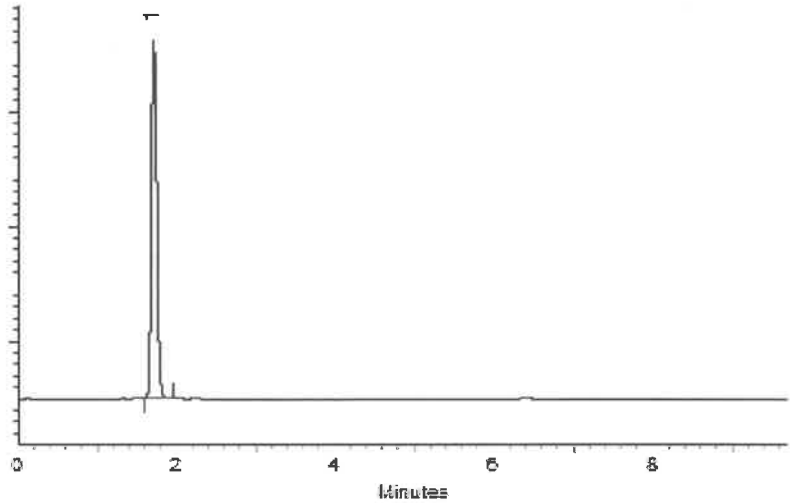
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

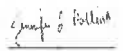


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Ethan Winiarski - Operations Tech I

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:

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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



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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:

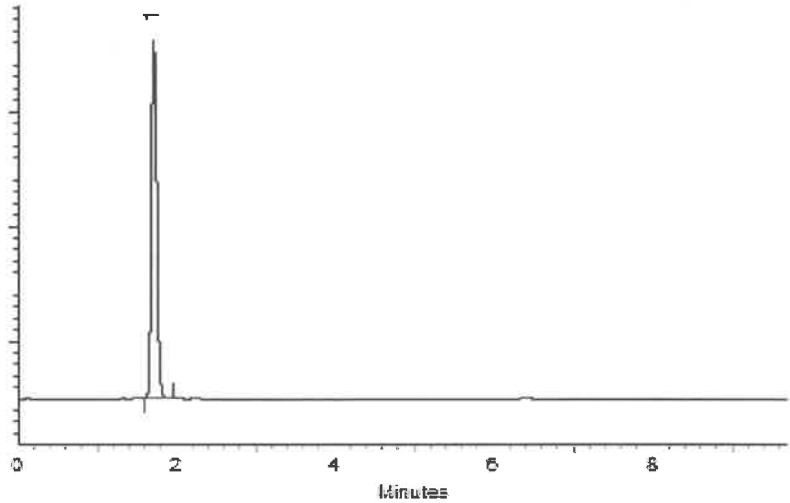
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

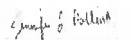


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Ethan Winiarski - Operations Tech I

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.
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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.
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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



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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:

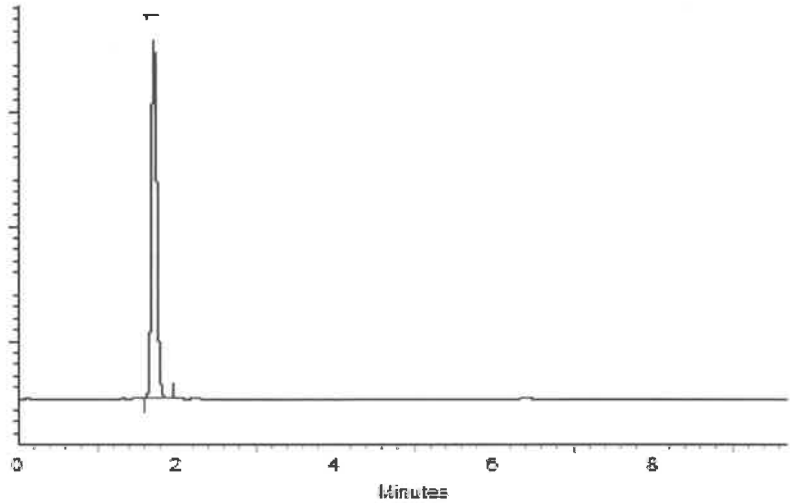
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

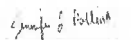


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Ethan Winiarski - Operations Tech I

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:

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- 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:

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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
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

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.

P13520
↓
P13536 } (18)

BACF
9/4/2024

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

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.

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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.

P13520
↓
P13536 } (18)

BACF
9/4/2024

Reference Material Certificate
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chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

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.

P13520
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P13536 } (18)

BACF
9/4/2024



SHIPPING DOCUMENTS

Q1569
WESTON SOLUTIONS

Weston COC ID
Weston_20250313_1208

Chain of Custody Record/Lab Work Request

Page	1	of	1
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Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111189	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	21	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
SB - Soil Boring
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Analyses Requested:	TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 8010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Cyanide by EPA 9012E	Total Sulfide by EPA 9034	PCBs by EPA 8082A	pH by EPA 9045D	Ignitability by EPA 1030		
	Container Type:	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass		
	Container Size:	4 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz		
	Preservative:	Ice to 0-6	Ice to 0-6 deg	Ice to 0-6 deg	Ice to 0-6 deg	Ice to 0-6 deg c	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	X	X	X	X	X	X	X	X	X	X	Special Instructions/Comments
1	TAP-IDW-SOIL-031325-01	c	DS	7	no	3/13/2025	10:20	X	X	X	X	X	X	X	X	X	X	*VOCs no headspace, prep immediately
2	TAP-IDW-SOIL-031325-02	c	DS	7	no	3/13/2025	10:50	X	X	X	X	X	X	X	X	X	X	*VOCs no headspace, prep immediately
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Shipping Airbill Number: 7726 9601 3376						Cooler Number: 1 of 1	
Relinquished By	Date	Time	Received By	Date	Time	Additional Comments	
1. <i>[Signature]</i>	3/13/25	1315	<i>[Signature]</i>	3/14/25	1000	QSM 6.0 Compliant	
2.)						Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD	
3.)						2-q-c	

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