

Cover Page

Order ID : Q1803

Project ID : NYC DOT Harper Street Yard North

Client : Scalamandre – Tully JV

Lab Sample Number

Q1803-01
Q1803-02

Client Sample Number

WEST-BAY
FUEL-MONITORING

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: 4/18/2025

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 #: Q1803

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: PRADIP PRAJAPATI

Date: 04/18/2025

LAB CHRONICLE

OrderID: Q1803	OrderDate: 4/14/2025 12:10:17 PM
Client: Scalamandre – Tully JV	Project: NYC DOT Harper Street Yard North
Contact: William J. Muenckler	Location: L31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1803-01	WEST-BAY	TCLP	TCLP Herbicide	8151A	04/10/25	04/16/25	04/16/25	04/14/25
			TCLP Pesticide	8081B		04/16/25	04/16/25	
Q1803-01RE	WEST-BAYRE	TCLP	TCLP Pesticide	8081B	04/10/25	04/16/25	04/17/25	04/14/25
Q1803-02	FUEL-MONITORING	TCLP	TCLP Herbicide	8151A	04/10/25	04/16/25	04/16/25	04/14/25
			TCLP Pesticide	8081B		04/16/25	04/16/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q1803

Order ID: Q1803

Client: Scalamandre – Tully JV

Project ID: NYC DOT Harper Street Yard North

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

Client ID :

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q1803

Client: Scalamandre – Tully JV

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS029656.D	PIBLK-PS029656.D	2,4-DCAA	1	500	476	95		39	175
		2,4-DCAA	2	500	485	97		39	175
I.BLK-PS029822.D	PIBLK-PS029822.D	2,4-DCAA	1	500	581	116		39	175
		2,4-DCAA	2	500	547	109		39	175
PB167608BL	PB167608BL	2,4-DCAA	1	500	681	136		39	175
		2,4-DCAA	2	500	616	123		39	175
PB167587TB	PB167587TB	2,4-DCAA	1	500	638	128		39	175
		2,4-DCAA	2	500	603	121		39	175
Q1803-01	WEST-BAY	2,4-DCAA	1	500	542	108		39	175
		2,4-DCAA	2	500	507	101		39	175
Q1803-02	FUEL-MONITORING	2,4-DCAA	1	500	532	106		39	175
		2,4-DCAA	2	500	489	98		39	175
Q1800-03MS	WC-A4-01-CMS	2,4-DCAA	1	500	519	104		39	175
		2,4-DCAA	2	500	500	100		39	175
Q1800-03MSD	WC-A4-01-CMSD	2,4-DCAA	1	500	516	103		39	175
		2,4-DCAA	2	500	491	98		39	175
I.BLK-PS029832.D	PIBLK-PS029832.D	2,4-DCAA	1	500	567	113		39	175
		2,4-DCAA	2	500	532	106		39	175
I.BLK-PS029835.D	PIBLK-PS029835.D	2,4-DCAA	1	500	558	112		39	175
		2,4-DCAA	2	500	522	104		39	175
PB167608BS	PB167608BS	2,4-DCAA	1	500	550	110		39	175
		2,4-DCAA	2	500	514	103		39	175
I.BLK-PS029838.D	PIBLK-PS029838.D	2,4-DCAA	1	500	522	104		39	175
		2,4-DCAA	2	500	532	106		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1803

Client: Scalamandre – Tully JV

Analytical Method: 8151A

DataFile : PS029830.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q1800-03MS	WC-A4-01-CMS											
	2,4-D	50	0	71.3	ug/L	143	*			65	135	
	2,4,5-TP(Silvex)	50	0	73.5	ug/L	147	*			62	139	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1803

Client: Scalamandre – Tully JV

Analytical Method: 8151A

DataFile : PS029831.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	WC-A4-01-CMSD											
Q1800-03MSD	2,4-D	50	0	70.8	ug/L	142	*	1		65	135	20
	2,4,5-TP(Silvex)	50	0	73.7	ug/L	147	*	0		62	139	20



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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1803

Client: Scalamandre – Tully JV

Analytical Method: 8151A Datafile : PS029837.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB167608BS	2,4-D	5	5.20	ug/L	104				83	130	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				78	127	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167608BL

Lab Name: CHEMTECH

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803

SAS No.: Q1803 SDG NO.: Q1803

Lab Sample ID: PB167608BL

Lab File ID: PS029824.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 04/16/2025

Date Analyzed (1): 04/16/2025

Date Analyzed (2): 04/16/2025

Time Analyzed (1): 17:12

Time Analyzed (2): 17:12

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
PB167587TB	PB167587TB	PS029826.D	04/16/2025	04/16/2025
WEST-BAY	Q1803-01	PS029827.D	04/16/2025	04/16/2025
FUEL-MONITORING	Q1803-02	PS029828.D	04/16/2025	04/16/2025
WC-A4-01-CMS	Q1800-03MS	PS029830.D	04/16/2025	04/16/2025
WC-A4-01-CMSD	Q1800-03MSD	PS029831.D	04/16/2025	04/16/2025
PB167608BS	PB167608BS	PS029837.D	04/17/2025	04/17/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Scalamandre – Tully JV		Date Collected:		
Project:	NYC DOT Harper Street Yard North		Date Received:	04/16/25	
Client Sample ID:	PB167587TB		SDG No.:	Q1803	
Lab Sample ID:	PB167587TB		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029826.D	1	04/16/25 08:34	04/16/25 18:01	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	638		39 - 175	128%	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\PS041625\
 Data File : PS029826.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 18:01
 Operator : AR\AJ
 Sample : PB167587TB
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB167587TB

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 04/17/2025
 Supervised By :mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:21:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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	6.953	7.477	1300.2E6	411.1E6	637.715m	603.198
------	----------	-------	-------	----------	---------	----------	---------

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 18:01
Operator : AR\AJ
Sample : PB167587TB
Misc :
ALS Vial : 6 Sample Multiplier: 1

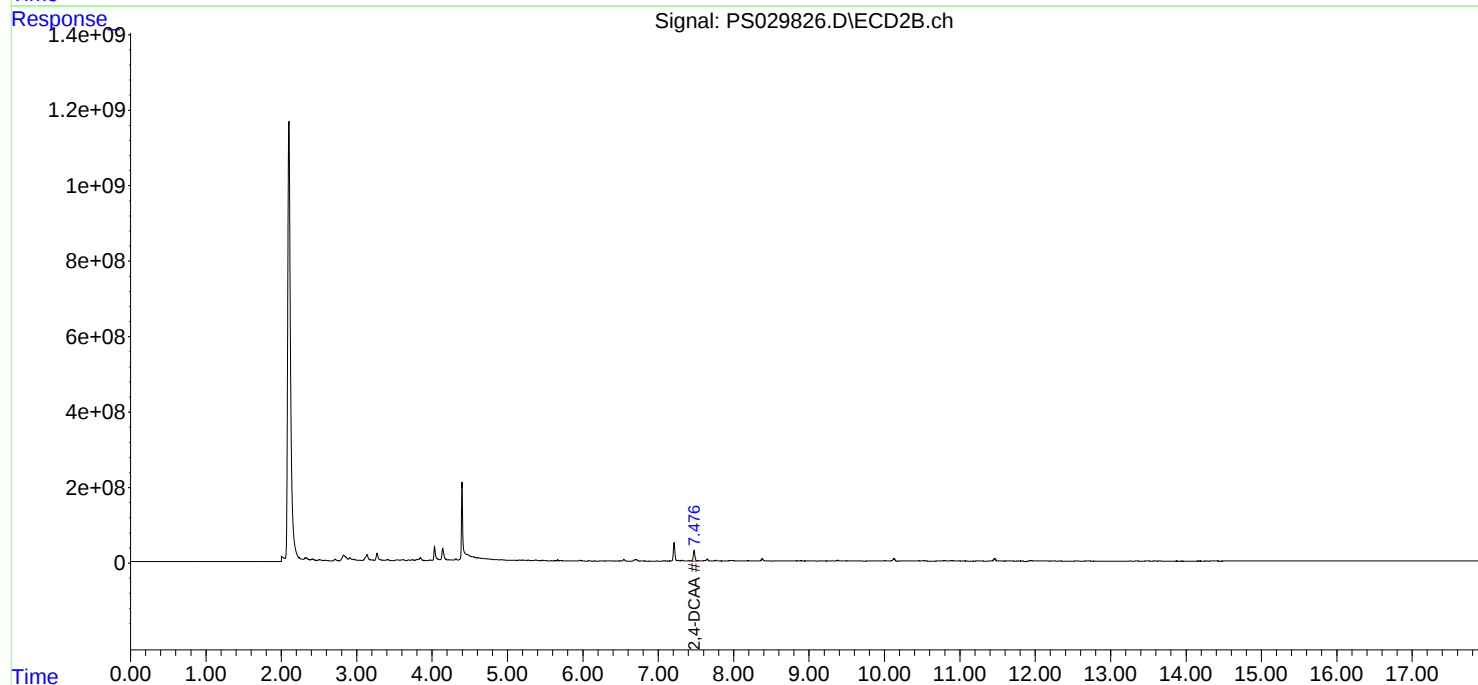
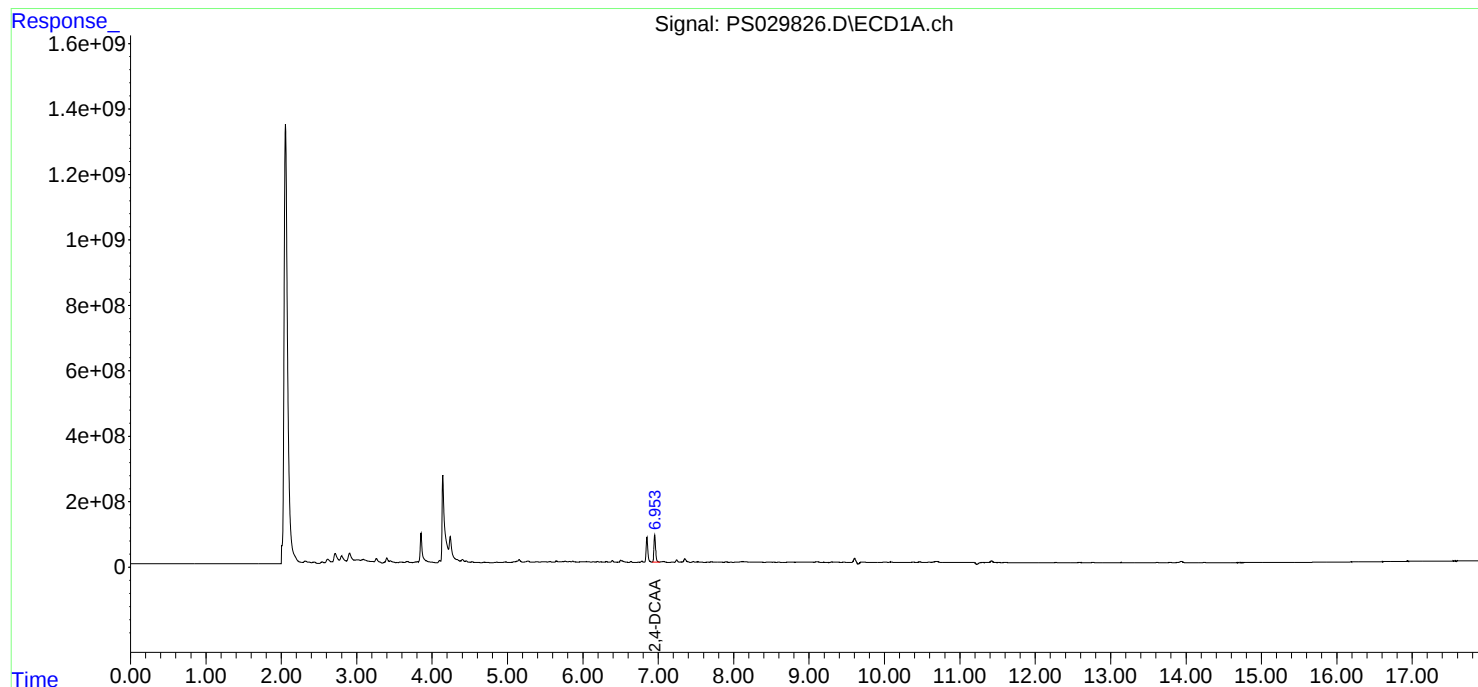
Instrument :
ECD_S
ClientSampleId :
PB167587TB

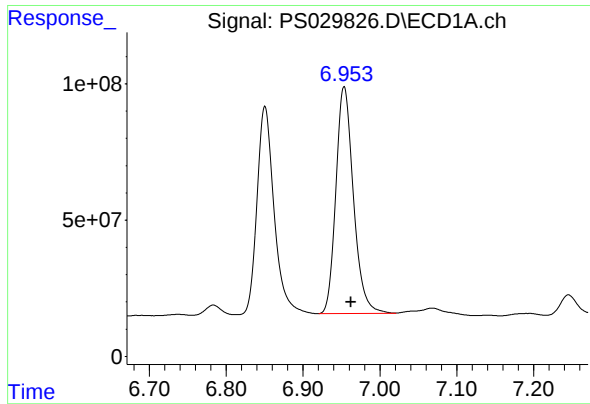
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/17/2025
Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:21:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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





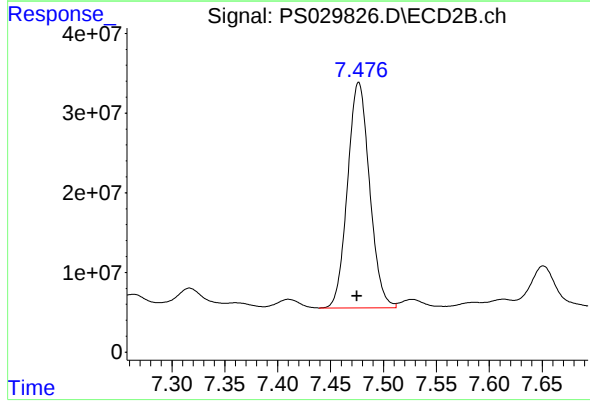
#4 2,4-DCAA

R.T.: 6.953 min
Delta R.T.: -0.010 min
Response: 1300192477
Conc: 637.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167587TB

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



#4 2,4-DCAA

R.T.: 7.477 min
Delta R.T.: 0.002 min
Response: 411087098
Conc: 603.20 ng/ml

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/10/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/14/25
Client Sample ID:	WEST-BAY	SDG No.:	Q1803
Lab Sample ID:	Q1803-01	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
PS029827.D	1	04/16/25 08:34	04/16/25 18:25	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	542		39 - 175	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\PS041625\
 Data File : PS029827.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 18:25
 Operator : AR\AJ
 Sample : Q1803-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WEST-BAY

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 04/17/2025
 Supervised By :mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:22:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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	6.953	7.476	1104.8E6	345.4E6	541.855m	506.746
------	----------	-------	-------	----------	---------	----------	---------

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029827.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 18:25
Operator : AR\AJ
Sample : Q1803-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

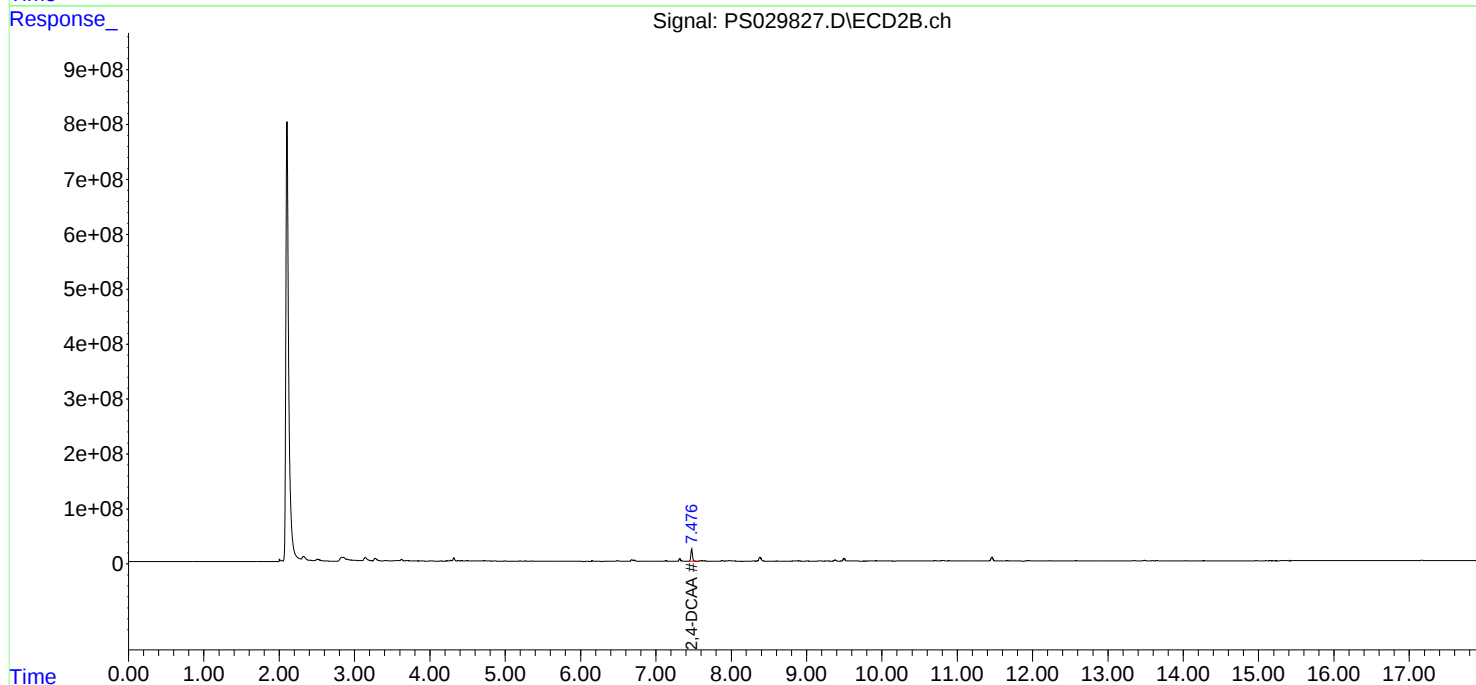
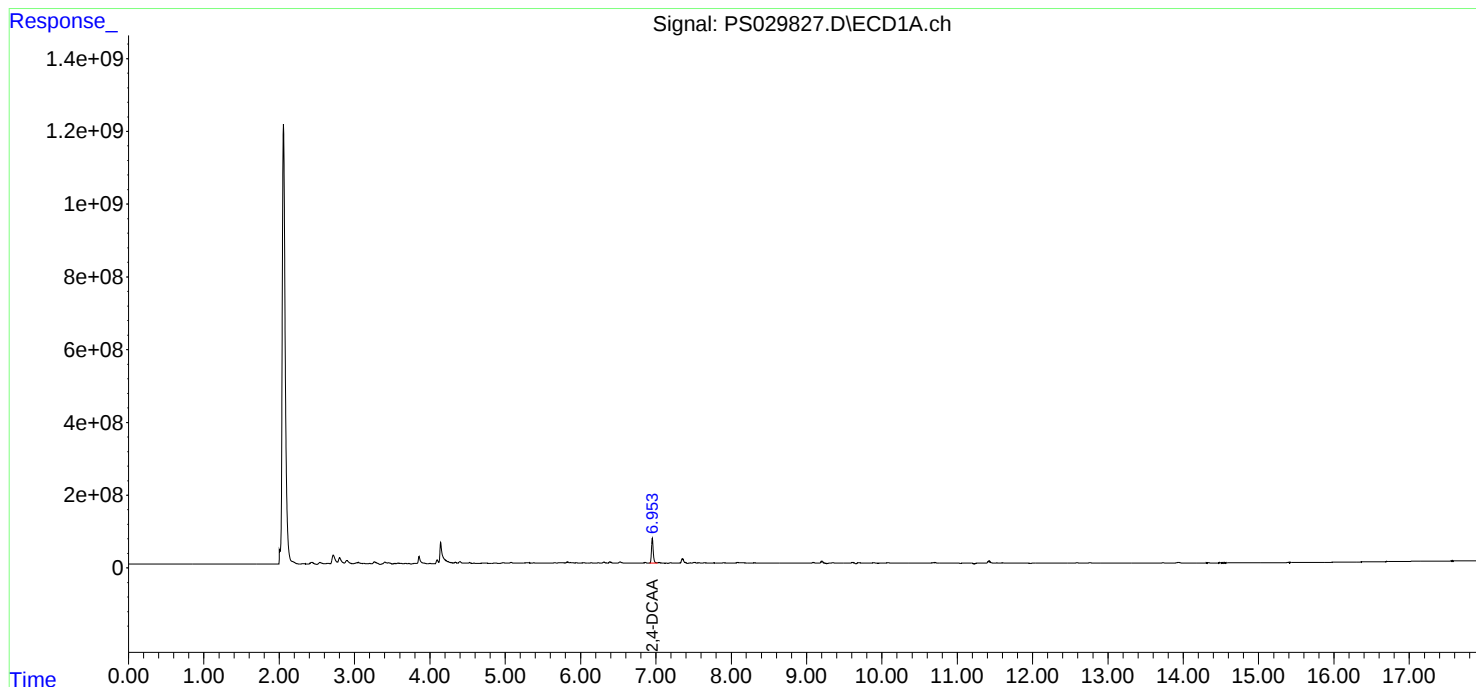
Instrument :
ECD_S
ClientSampleId :
WEST-BAY

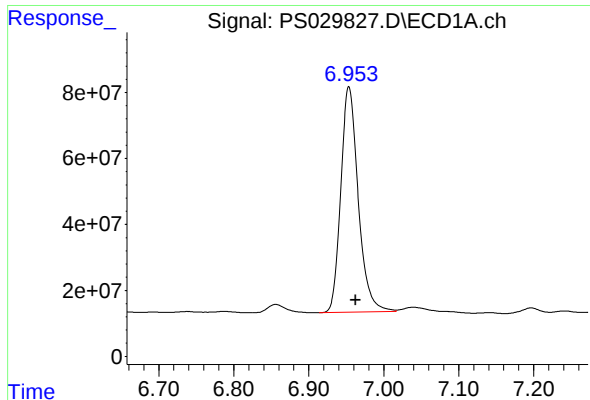
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/17/2025
Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:22:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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





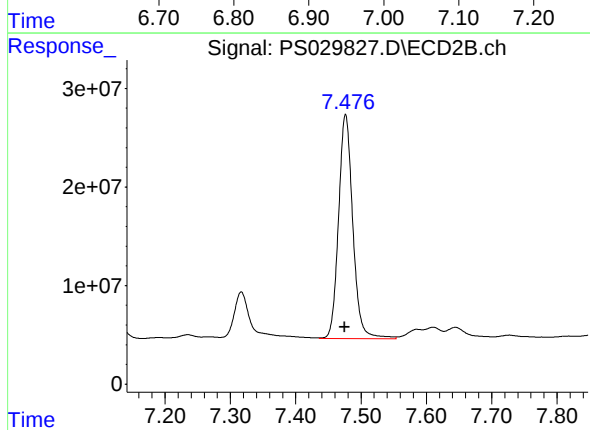
#4 2,4-DCAA

R.T.: 6.953 min
Delta R.T.: -0.009 min
Response: 1104750829
Conc: 541.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
WEST-BAY

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



#4 2,4-DCAA

R.T.: 7.476 min
Delta R.T.: 0.002 min
Response: 345354247
Conc: 506.75 ng/ml

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/10/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/14/25
Client Sample ID:	FUEL-MONITORING	SDG No.:	Q1803
Lab Sample ID:	Q1803-02	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
PS029828.D	1	04/16/25 08:34	04/16/25 18:49	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	532		39 - 175	106%	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\PS041625\
 Data File : PS029828.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 18:49
 Operator : AR\AJ
 Sample : Q1803-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 FUEL-MONITORING

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:22:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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
----------	------	------	--------	--------	-------	-------

System Monitoring Compounds

4) S	2,4-DCAA	6.953	7.476	1083.7E6	333.6E6	531.536	489.492
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

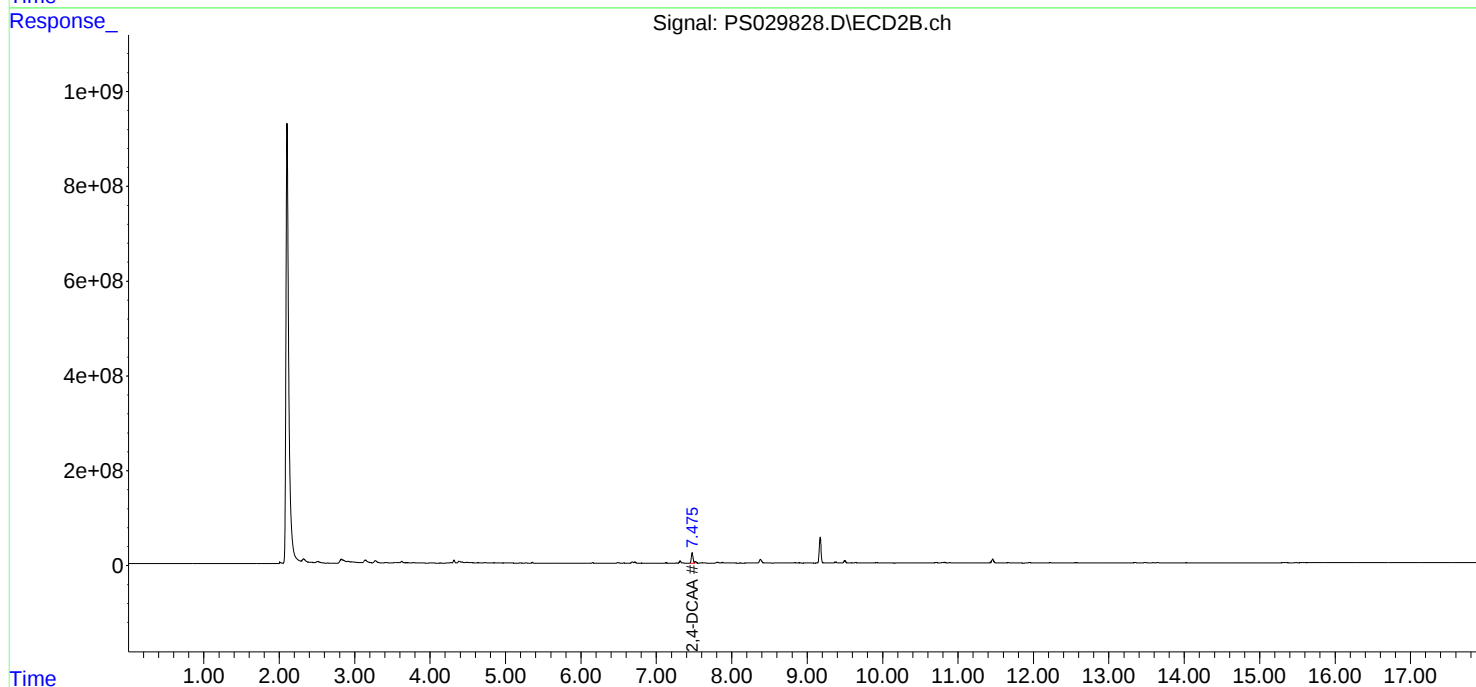
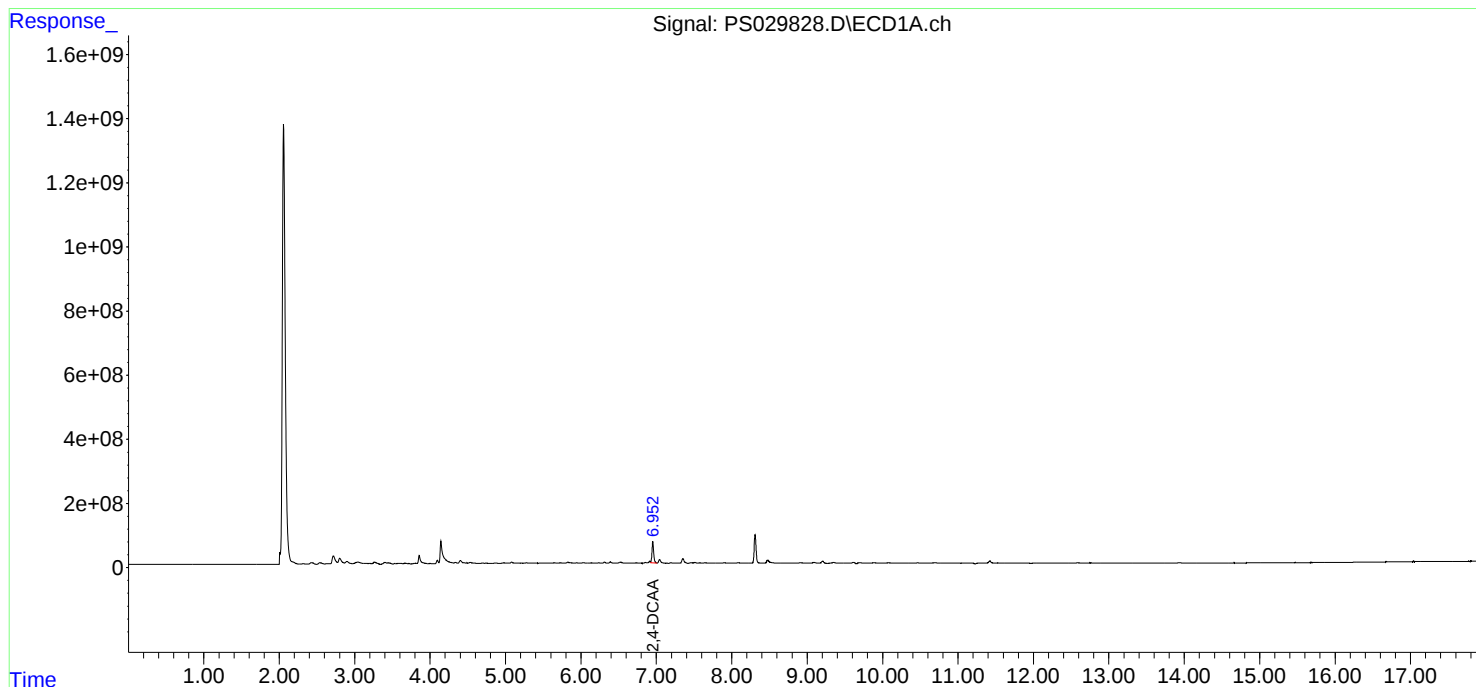
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

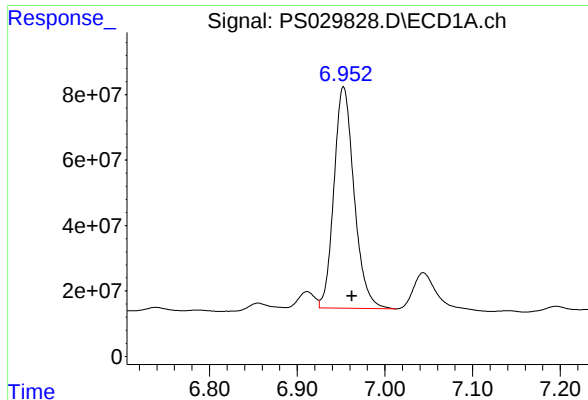
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029828.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 18:49
Operator : AR\AJ
Sample : Q1803-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
FUEL-MONITORING

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:22:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

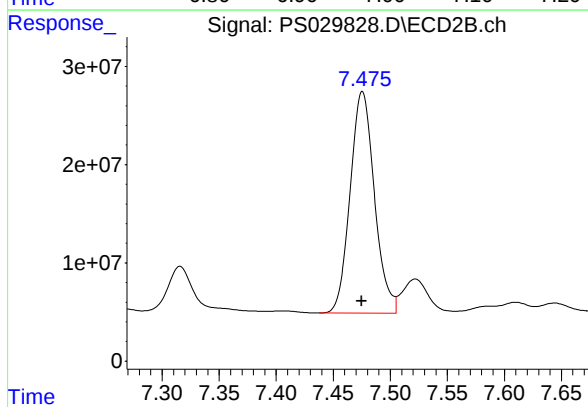




#4 2,4-DCAA

R.T.: 6.953 min
Delta R.T.: -0.010 min
Response: 1083710894
Conc: 531.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
FUEL-MONITORING



#4 2,4-DCAA

R.T.: 7.476 min
Delta R.T.: 0.000 min
Response: 333595350
Conc: 489.49 ng/ml



CALIBRATION SUMMARY



Contract:	<u>SCAL01</u>						
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1803</u>	SAS No.:	<u>Q1803</u>	SDG NO.:	<u>Q1803</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):		<u>04/02/2025</u>	<u>04/02/2025</u>		
		Calibration Times:		<u>17:32</u>	<u>20:44</u>		

LAB FILE ID:	RT 200 =	<u>PS029657.D</u>	RT 500 =	<u>PS029658.D</u>
RT 750 =	<u>PS029659.D</u>	RT 1000 =	<u>PS029660.D</u>	RT 1500 =
			<u>PS029661.D</u>	

[illegible]



Contract:	<u>SCAL01</u>						
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1803</u>	SAS No.:	<u>Q1803</u>	SDG NO.:	<u>Q1803</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):		<u>04/02/2025</u>	<u>04/02/2025</u>		
		Calibration Times:		<u>17:32</u>	<u>20:44</u>		

LAB FILE ID:	RT 200 =	<u>PS029657.D</u>	RT 500 =	<u>PS029658.D</u>
RT 750 =	<u>PS029659.D</u>	RT 1000 =	<u>PS029660.D</u>	RT 1500 =
			<u>PS029661.D</u>	

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: SCAL01
Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803
Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025
Calibration Times: 17:32 20:44

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

LAB FILE ID:		CF 200 =	<u>PS029657.D</u>	CF 500 =	<u>PS029658.D</u>		
CF 750 =		<u>PS029659.D</u>	CF 1000 =	<u>PS029660.D</u>	CF 1500 =	<u>PS029661.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	12727900000	11569300000	11320400000	11249800000	11209500000	11615400000	5
2,4-D	2821030000	2334770000	2267580000	2246770000	2377810000	2409590000	10
2,4-DCAA	2302820000	2069000000	1979340000	1949030000	1893970000	2038830000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: SCAL01
Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803
Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025
Calibration Times: 17:32 20:44

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

LAB FILE ID:		CF 200 =	<u>PS029657.D</u>	CF 500 =	<u>PS029658.D</u>		
CF 750 =		<u>PS029659.D</u>	CF 1000 =	<u>PS029660.D</u>	CF 1500 =	<u>PS029661.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	7615620000	7063890000	7056380000	7090810000	7238100000	7212960000	3
2,4-D	1263680000	1033640000	1003030000	1003730000	1088250000	1078460000	10
2,4-DCAA	756673000	677593000	660102000	658637000	654559000	681513000	6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
 Data File : PS029657.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 02 Apr 2025 17:32
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 02 21:46:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 21:45:08 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	6.963	7.476	460.6E6	151.3E6	232.686	229.260
Target Compounds							
1) T	Dalapon	2.463	2.533	731.9E6	336.4E6	224.174	219.295
2) T	3,5-DICHL...	6.166	6.471	622.3E6	198.4E6	211.603	211.486
3) T	4-Nitroph...	6.755	7.011	281.9E6	145.1E6	207.004	212.338
5) T	DICAMBA	7.140	7.663	1665.3E6	696.8E6	201.131	190.785
6) T	MCP	7.317	7.766	85252462	28218860	15.480	16.114
7) T	MCPA	7.459	7.997	120.6E6	41718309	16.342	18.360
8) T	DICHLORPROP	7.822	8.357	494.6E6	213.7E6	239.160	236.114
9) T	2,4-D	8.044	8.673	530.4E6	237.6E6	233.885	236.854
10) T	Pentachlo...	8.321	9.174	6661.6E6	3600.2E6	229.136	203.169
11) T	2,4,5-TP ...	8.888	9.553	2418.3E6	1447.0E6	213.623	205.058
12) T	2,4,5-T	9.171	9.959	2354.5E6	1338.6E6	208.050	202.548
13) T	2,4-DB	9.732	10.516	336.4E6	152.6E6	179.124	213.467
14) T	DINOSEB	10.896	10.888	1721.6E6	1043.9E6	207.542	210.790
15) T	Picloram	10.714	11.932	3148.9E6	2164.7E6	207.380	195.248
16) T	DCPA	11.196	11.912	2871.5E6	1841.8E6	208.516	183.261

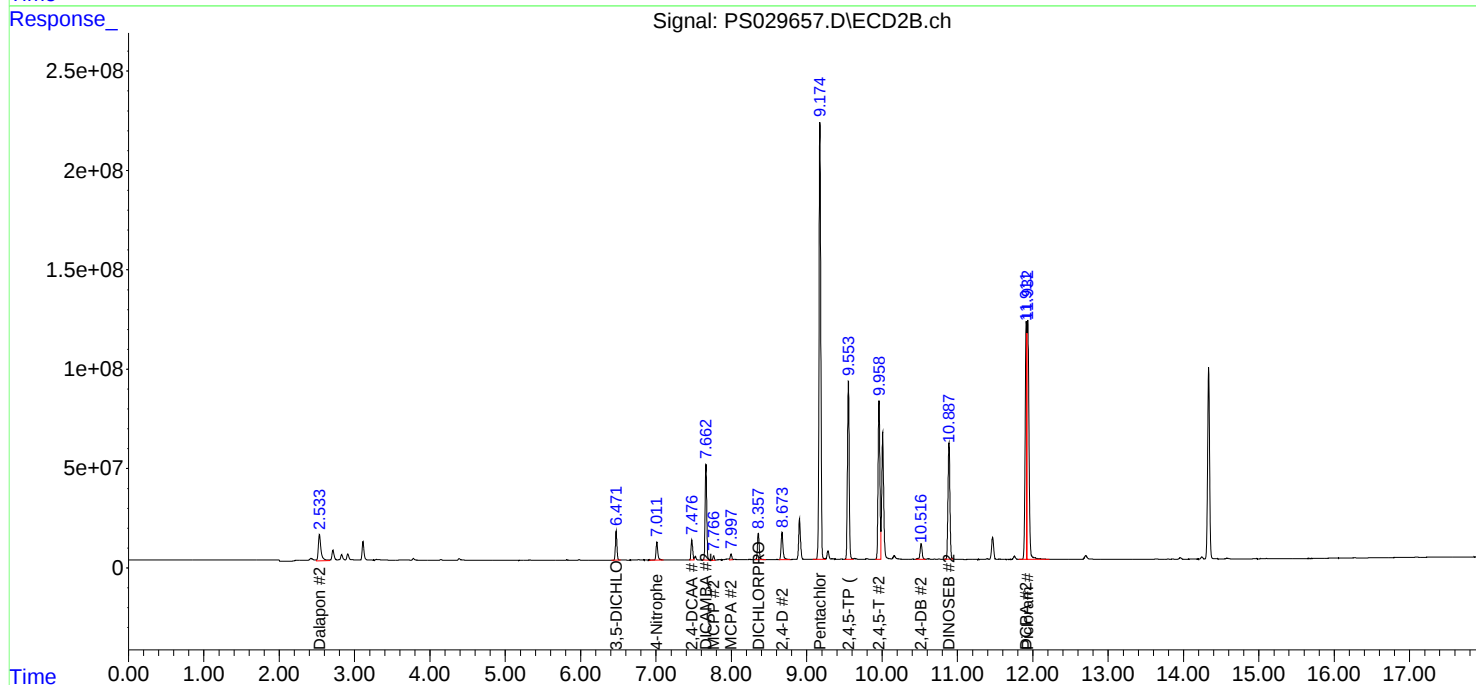
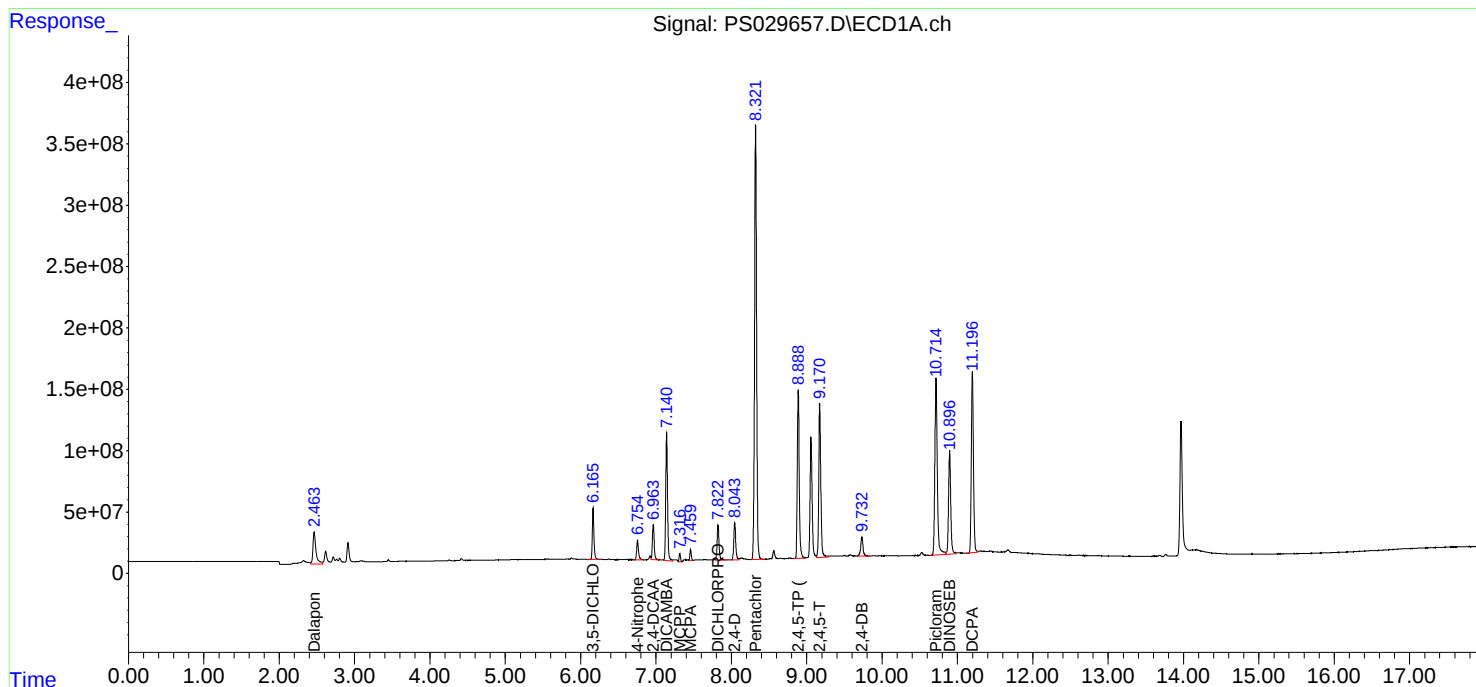
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

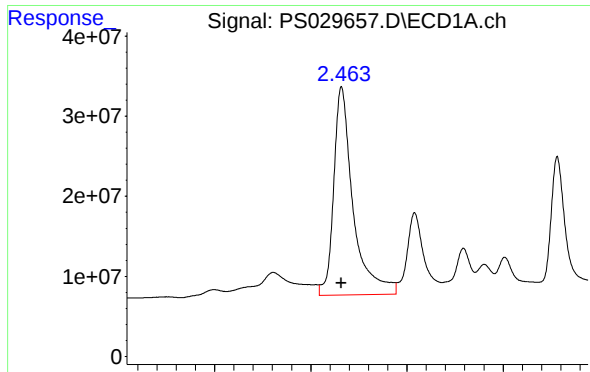
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029657.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 17:32
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 02 21:46:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:45:08 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

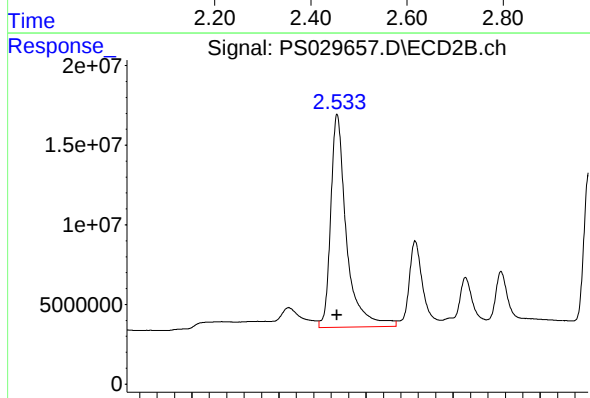




#1 Dalapon

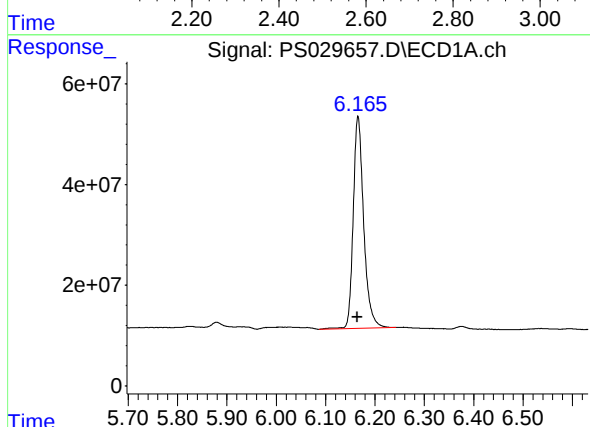
R.T.: 2.463 min
Delta R.T.: 0.000 min
Response: 731934729
Conc: 224.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



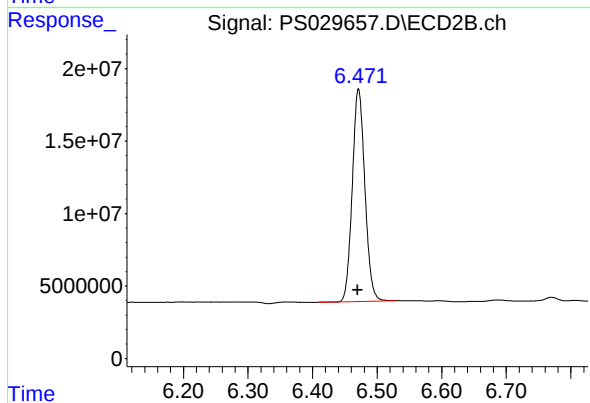
#1 Dalapon

R.T.: 2.533 min
Delta R.T.: 0.000 min
Response: 336353813
Conc: 219.30 ng/ml



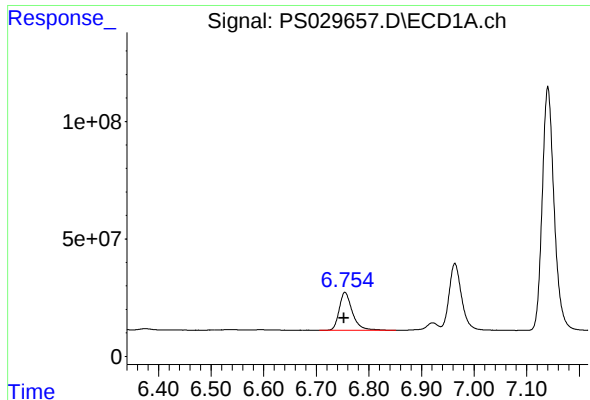
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.166 min
Delta R.T.: 0.000 min
Response: 622297322
Conc: 211.60 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

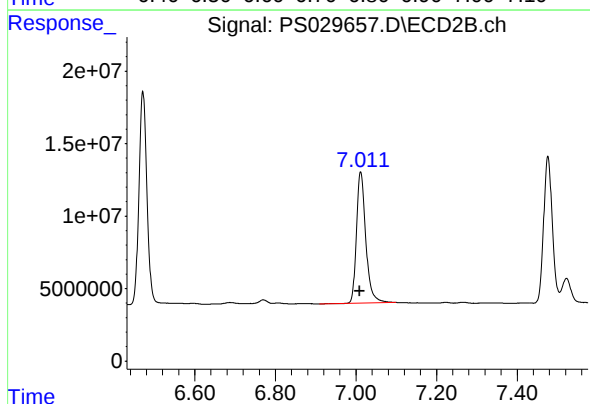
R.T.: 6.471 min
Delta R.T.: 0.000 min
Response: 198400474
Conc: 211.49 ng/ml



#3 4-Nitrophenol

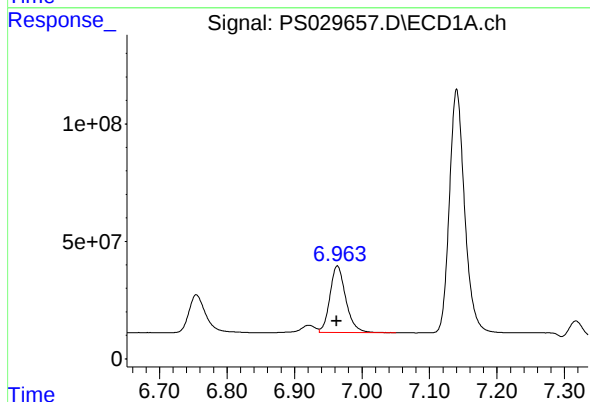
R.T.: 6.755 min
Delta R.T.: 0.001 min
Response: 281903407
Conc: 207.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



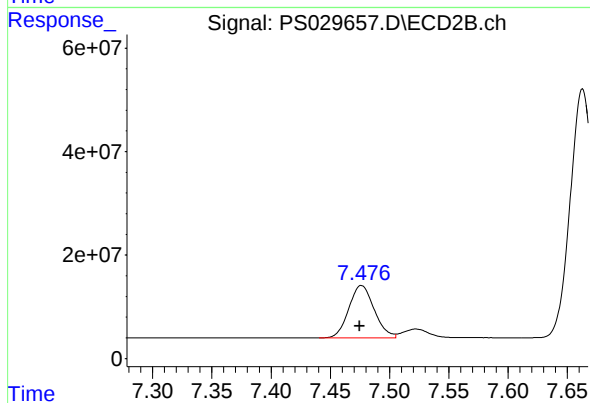
#3 4-Nitrophenol

R.T.: 7.011 min
Delta R.T.: 0.002 min
Response: 145131227
Conc: 212.34 ng/ml



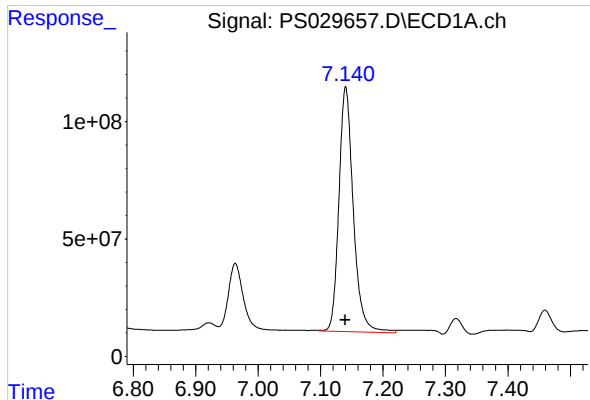
#4 2,4-DCAA

R.T.: 6.963 min
Delta R.T.: 0.000 min
Response: 460564681
Conc: 232.69 ng/ml



#4 2,4-DCAA

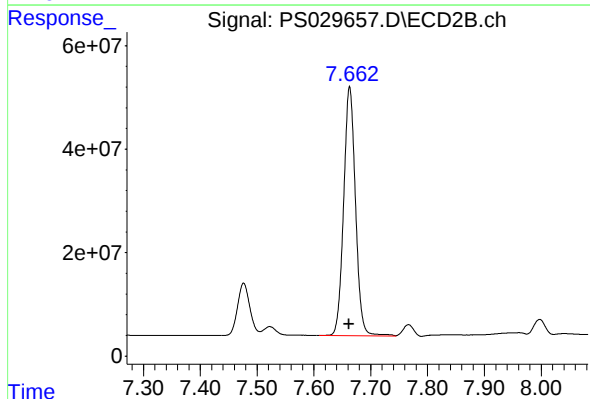
R.T.: 7.476 min
Delta R.T.: 0.001 min
Response: 151334671
Conc: 229.26 ng/ml



#5 DICAMBA

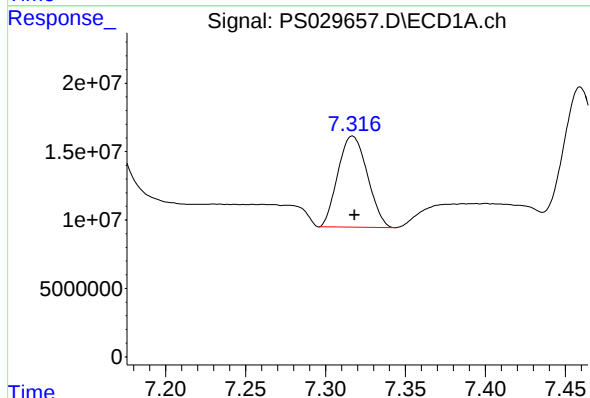
R.T.: 7.140 min
Delta R.T.: 0.000 min
Response: 1665316112
Conc: 201.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



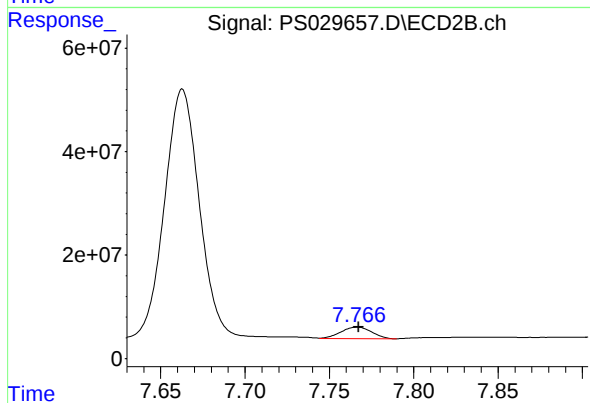
#5 DICAMBA

R.T.: 7.663 min
Delta R.T.: 0.001 min
Response: 696795395
Conc: 190.79 ng/ml



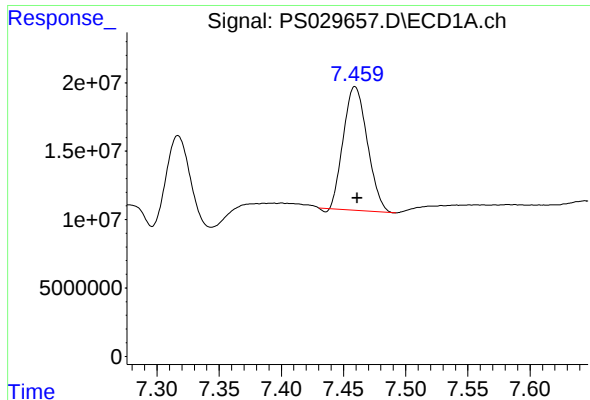
#6 MCPP

R.T.: 7.317 min
Delta R.T.: -0.001 min
Response: 85252462
Conc: 15.48 ug/ml



#6 MCPP

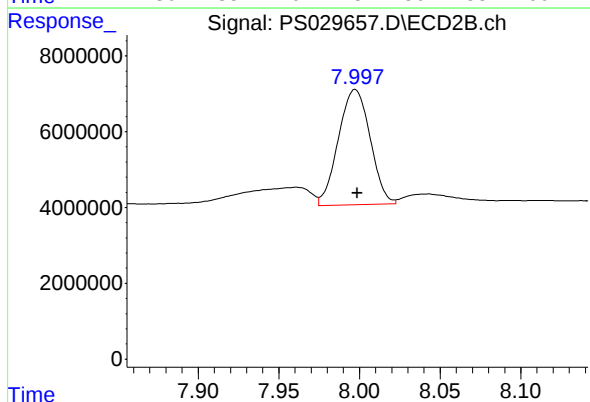
R.T.: 7.766 min
Delta R.T.: -0.001 min
Response: 28218860
Conc: 16.11 ug/ml



#7 MCPA

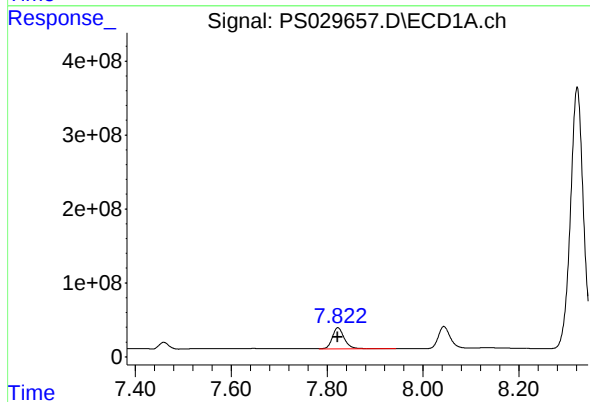
R.T.: 7.459 min
Delta R.T.: -0.002 min
Response: 120575211
Conc: 16.34 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



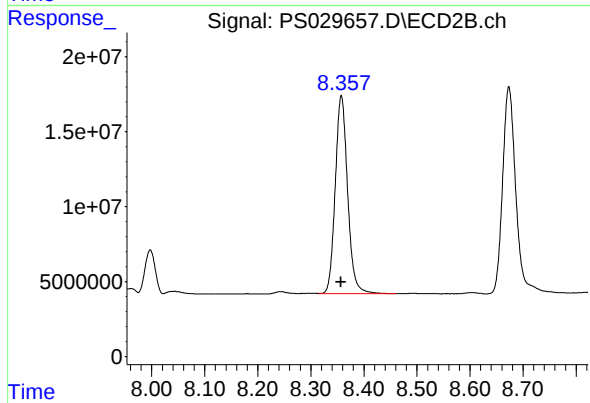
#7 MCPA

R.T.: 7.997 min
Delta R.T.: -0.001 min
Response: 41718309
Conc: 18.36 ug/ml



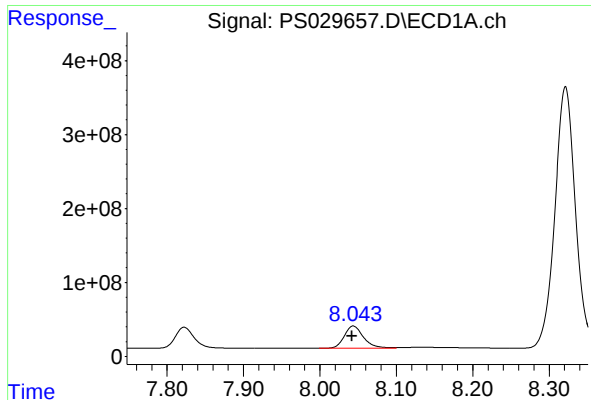
#8 DICHLORPROP

R.T.: 7.822 min
Delta R.T.: 0.000 min
Response: 494633615
Conc: 239.16 ng/ml



#8 DICHLORPROP

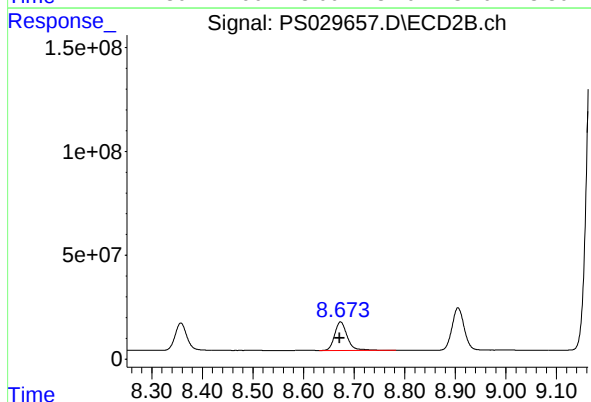
R.T.: 8.357 min
Delta R.T.: 0.001 min
Response: 213698070
Conc: 236.11 ng/ml



#9 2,4-D

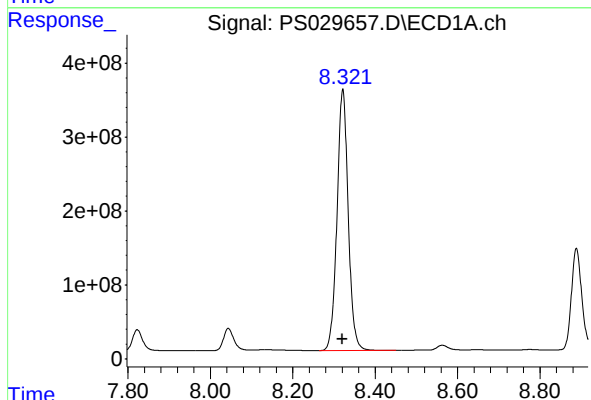
R.T.: 8.044 min
Delta R.T.: 0.001 min
Response: 530353272
Conc: 233.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



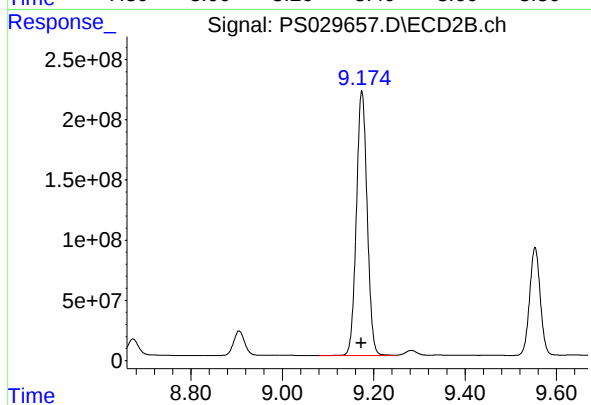
#9 2,4-D

R.T.: 8.673 min
Delta R.T.: 0.002 min
Response: 237571156
Conc: 236.85 ng/ml



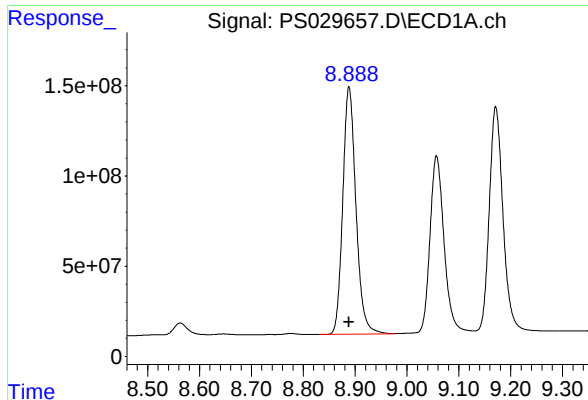
#10 Pentachlorophenol

R.T.: 8.321 min
Delta R.T.: 0.000 min
Response: 6661591819
Conc: 229.14 ng/ml



#10 Pentachlorophenol

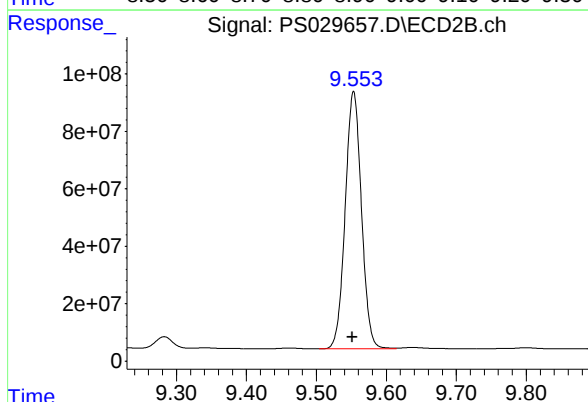
R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 3600173749
Conc: 203.17 ng/ml



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

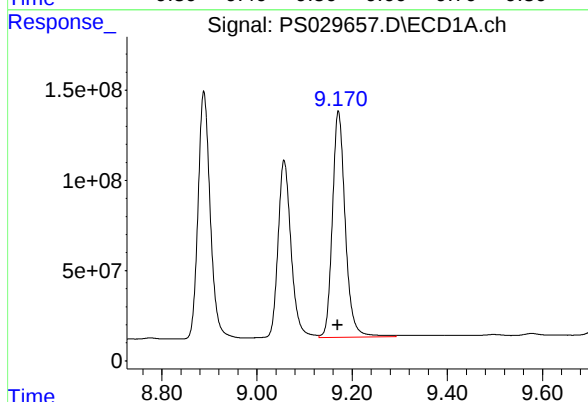
R.T.: 8.888 min
Delta R.T.: 0.000 min
Response: 2418295395
Conc: 213.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



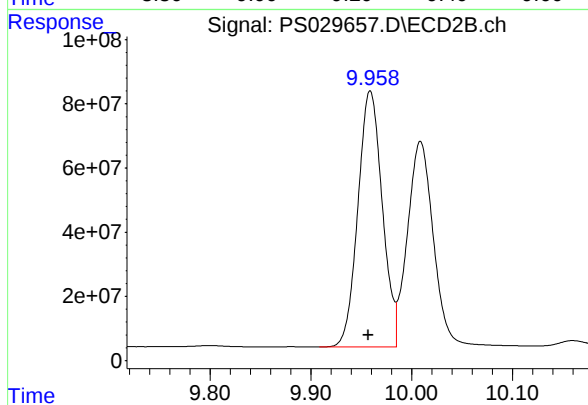
#11 2,4,5-TP (SILVEX)

R.T.: 9.553 min
Delta R.T.: 0.002 min
Response: 1446967771
Conc: 205.06 ng/ml



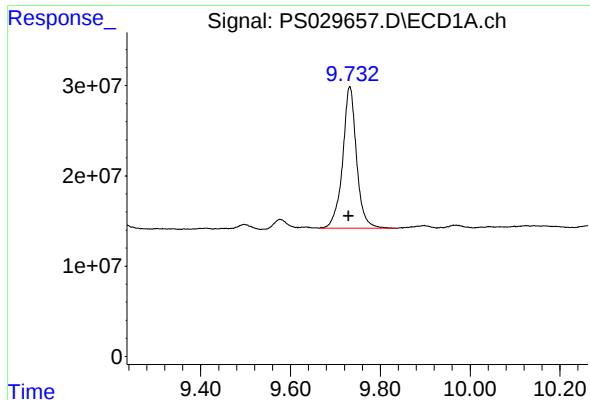
#12 2,4,5-T

R.T.: 9.171 min
Delta R.T.: 0.001 min
Response: 2354497182
Conc: 208.05 ng/ml



#12 2,4,5-T

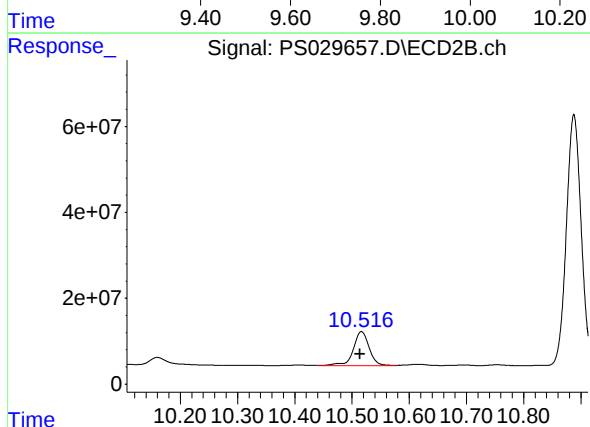
R.T.: 9.959 min
Delta R.T.: 0.002 min
Response: 1338585053
Conc: 202.55 ng/ml



#13 2,4-DB

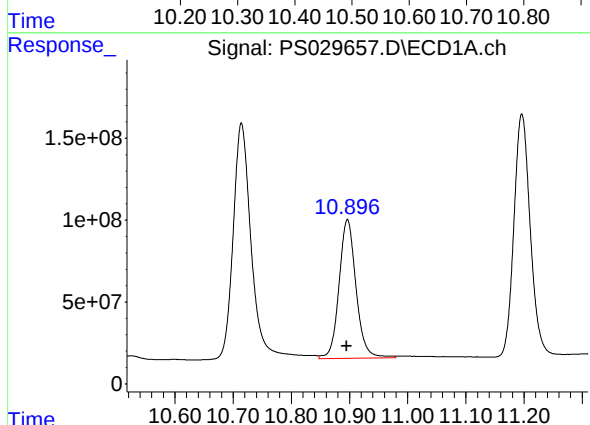
R.T.: 9.732 min
Delta R.T.: 0.003 min
Response: 336360413
Conc: 179.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



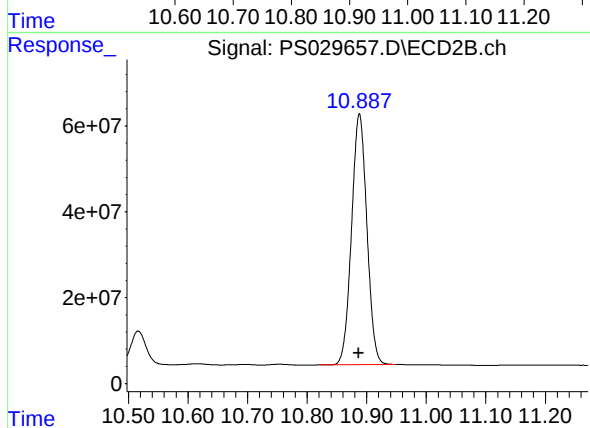
#13 2,4-DB

R.T.: 10.516 min
Delta R.T.: 0.002 min
Response: 152627392
Conc: 213.47 ng/ml



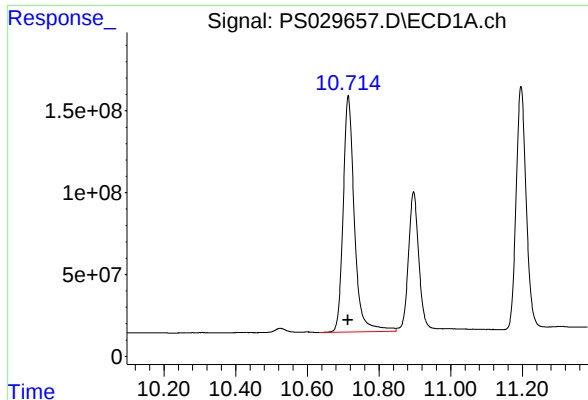
#14 DINOSEB

R.T.: 10.896 min
Delta R.T.: 0.001 min
Response: 1721611147
Conc: 207.54 ng/ml



#14 DINOSEB

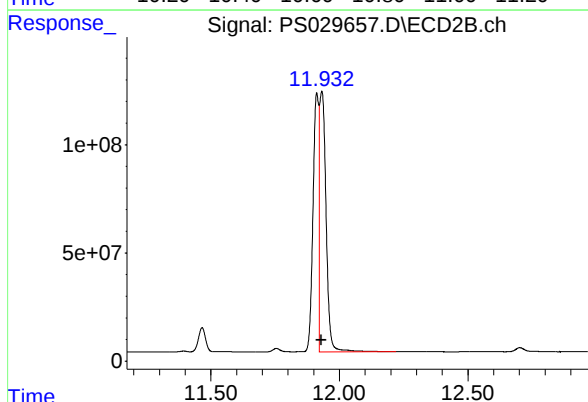
R.T.: 10.888 min
Delta R.T.: 0.001 min
Response: 1043866951
Conc: 210.79 ng/ml



#15 Picloram

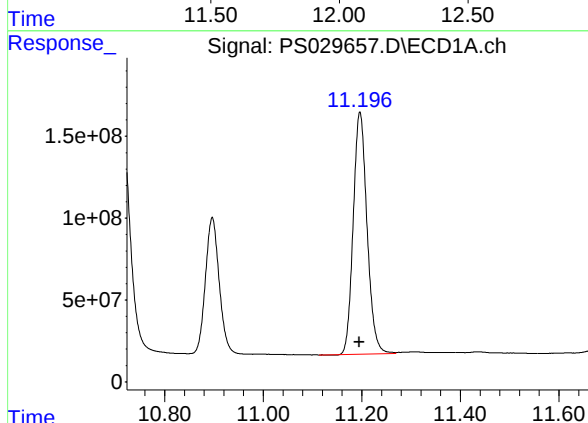
R.T.: 10.714 min
Delta R.T.: 0.001 min
Response: 3148932398
Conc: 207.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



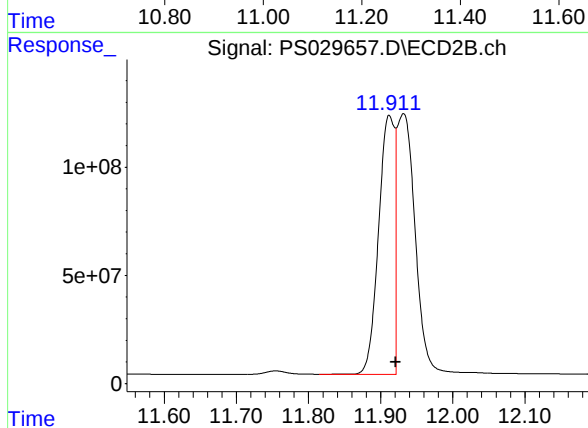
#15 Picloram

R.T.: 11.932 min
Delta R.T.: 0.002 min
Response: 2164676310
Conc: 195.25 ng/ml



#16 DCPA

R.T.: 11.196 min
Delta R.T.: 0.000 min
Response: 2871466571
Conc: 208.52 ng/ml



#16 DCPA

R.T.: 11.912 min
Delta R.T.: -0.009 min
Response: 1841799208
Conc: 183.26 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
 Data File : PS029658.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 02 Apr 2025 17:56
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 02 21:46:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 21:45:08 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	6.963	7.476	1034.5E6	338.8E6	522.648	513.249
Target Compounds							
1) T	Dalapon	2.463	2.533	1566.9E6	735.5E6	479.894	479.559
2) T	3,5-DICHL...	6.165	6.470	1411.1E6	445.8E6	479.828	475.161
3) T	4-Nitroph...	6.754	7.010	631.6E6	320.3E6	463.792	468.614
5) T	DICAMBA	7.140	7.662	3988.8E6	1692.4E6	481.754	463.398
6) T	MCPD	7.317	7.766	251.0E6	80048671	45.582	45.711
7) T	MCPA	7.460	7.997	336.8E6	103.6E6	45.643	45.594
8) T	DICHLORPROP	7.822	8.357	1008.0E6	434.8E6	487.379	480.426
9) T	2,4-D	8.043	8.672	1097.3E6	485.8E6	483.927	484.347
10) T	Pentachlo...	8.321	9.173	14175.8E6	8509.4E6	487.598	480.213
11) T	2,4,5-TP ...	8.887	9.552	5495.4E6	3355.3E6	485.444	475.506
12) T	2,4,5-T	9.170	9.957	5489.2E6	3151.1E6	485.039	476.804
13) T	2,4-DB	9.730	10.515	892.0E6	347.6E6	475.002	486.133
14) T	DINOSEB	10.895	10.886	3924.5E6	2357.1E6	473.097	475.967
15) T	Picloram	10.714	11.930	7202.2E6	5259.7E6	474.314	474.410
16) T	DCPA	11.196	11.913	6699.5E6	4331.2E6	486.495	430.957

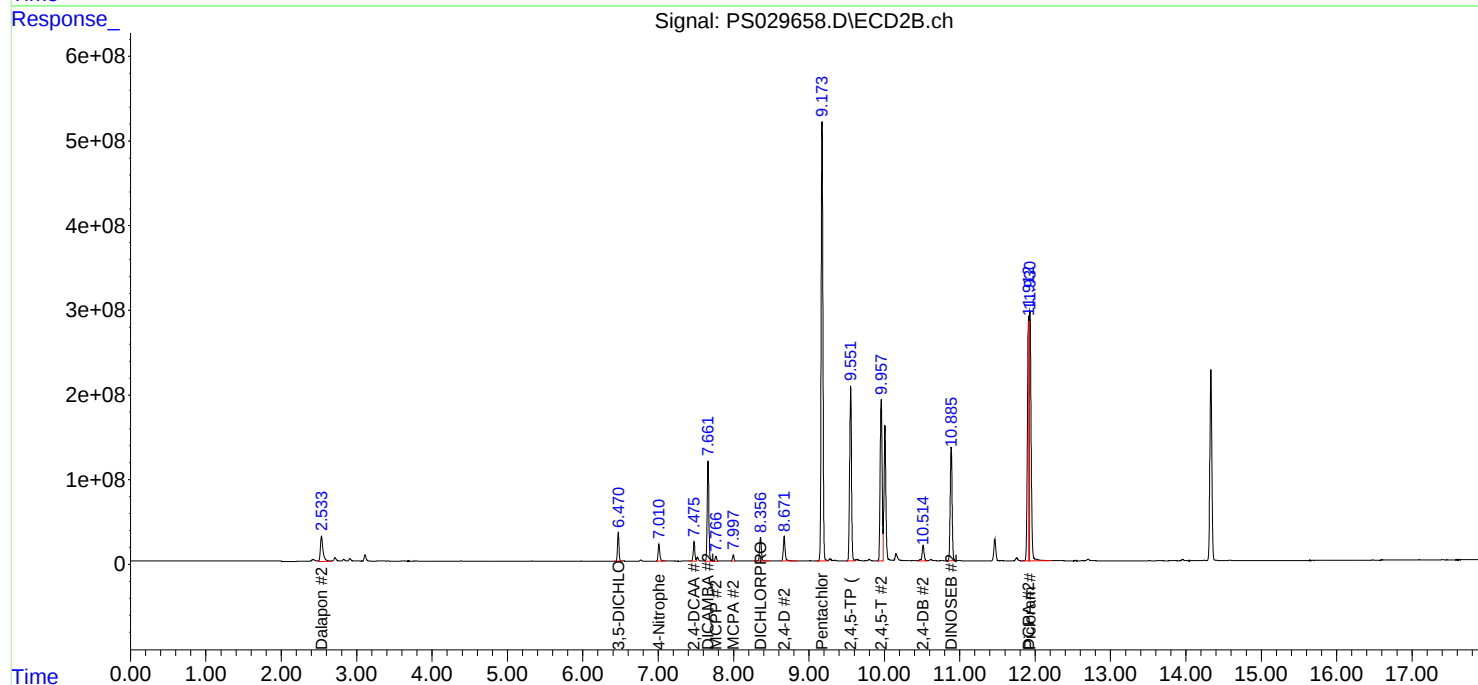
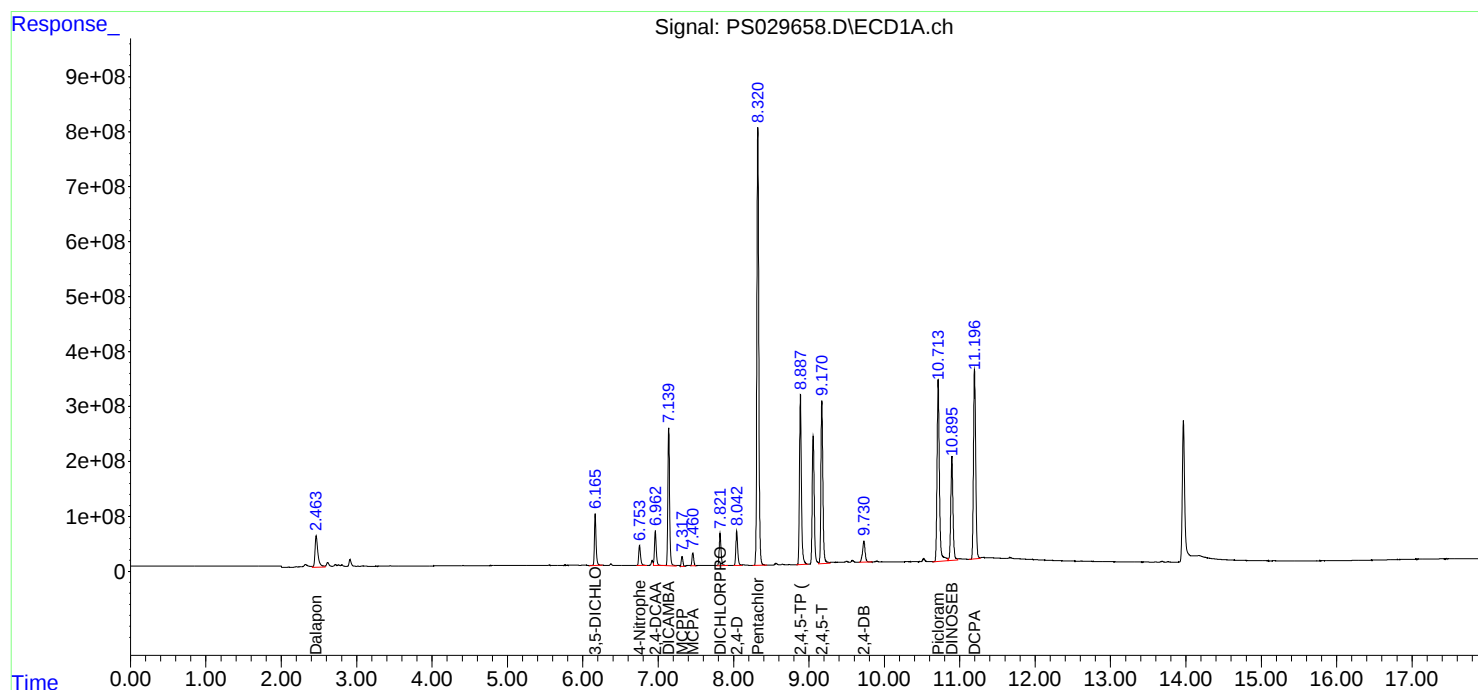
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

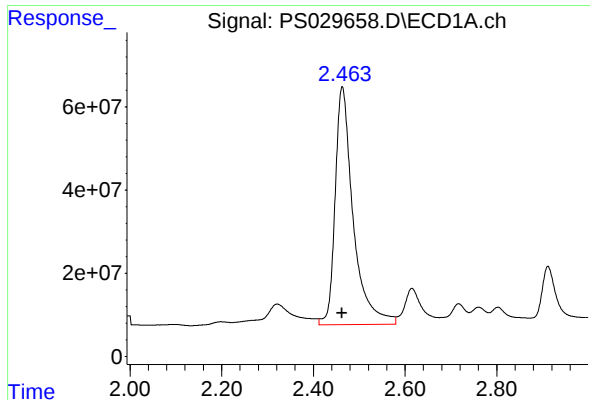
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029658.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 17:56
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 02 21:46:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:45:08 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

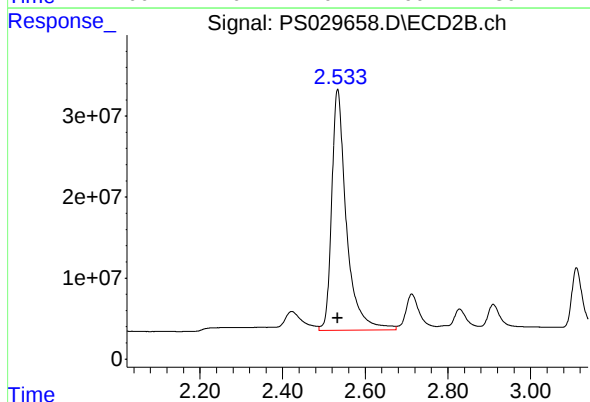




#1 Dalapon

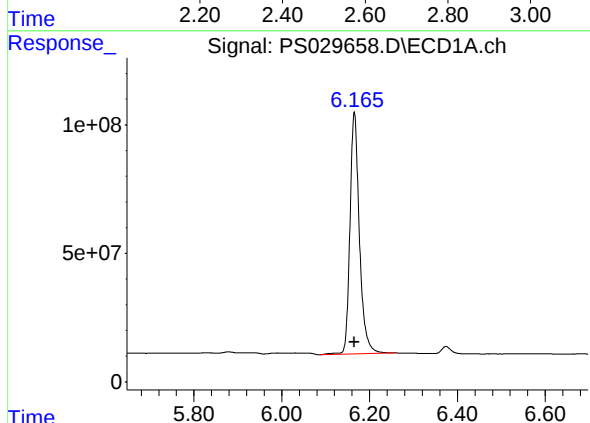
R.T.: 2.463 min
Delta R.T.: 0.000 min
Response: 1566868266
Conc: 479.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



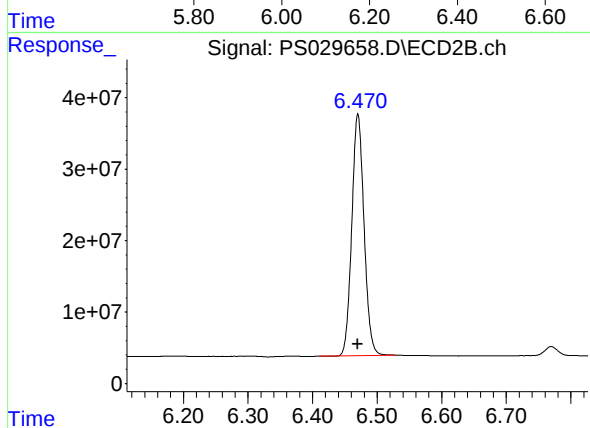
#1 Dalapon

R.T.: 2.533 min
Delta R.T.: 0.000 min
Response: 735543650
Conc: 479.56 ng/ml



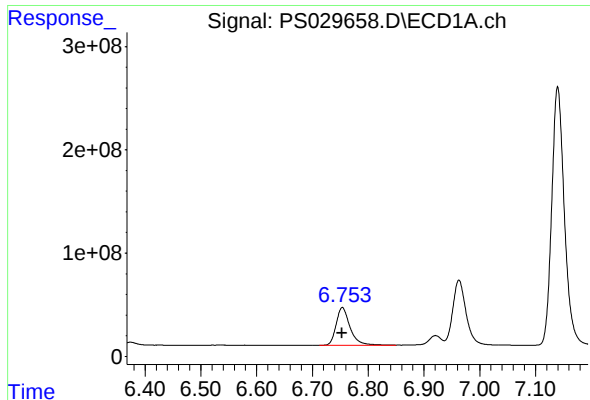
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.165 min
Delta R.T.: 0.000 min
Response: 1411113725
Conc: 479.83 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

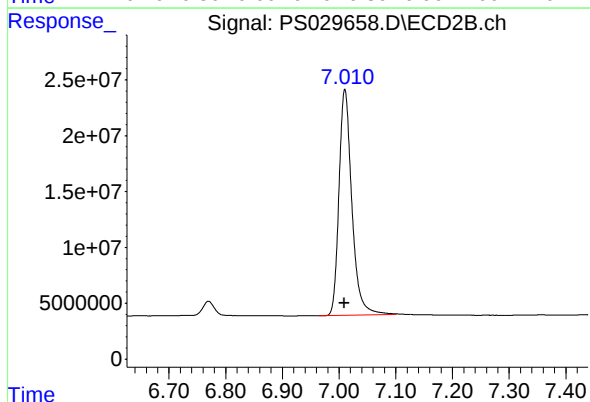
R.T.: 6.470 min
Delta R.T.: 0.000 min
Response: 445759457
Conc: 475.16 ng/ml



#3 4-Nitrophenol

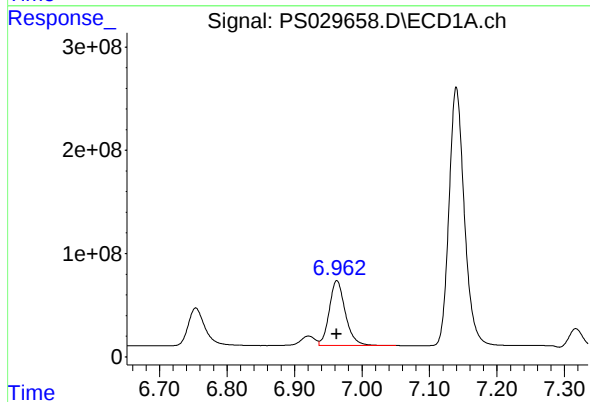
R.T.: 6.754 min
Delta R.T.: 0.000 min
Response: 631605452
Conc: 463.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



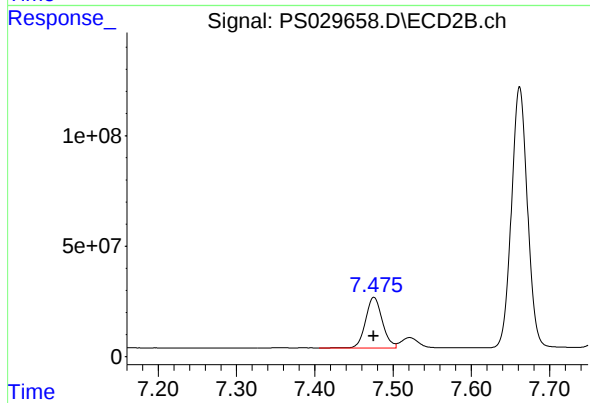
#3 4-Nitrophenol

R.T.: 7.010 min
Delta R.T.: 0.000 min
Response: 320294652
Conc: 468.61 ng/ml



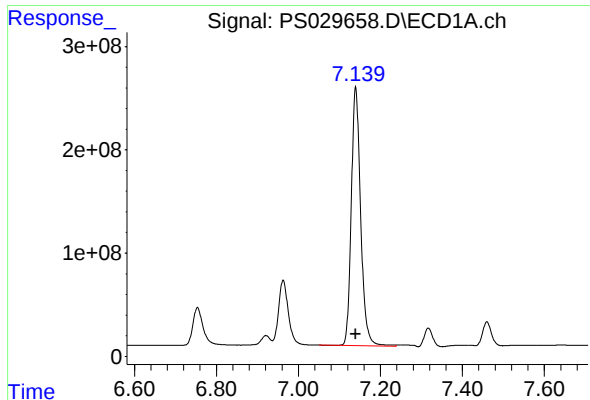
#4 2,4-DCAA

R.T.: 6.963 min
Delta R.T.: 0.000 min
Response: 1034497882
Conc: 522.65 ng/ml



#4 2,4-DCAA

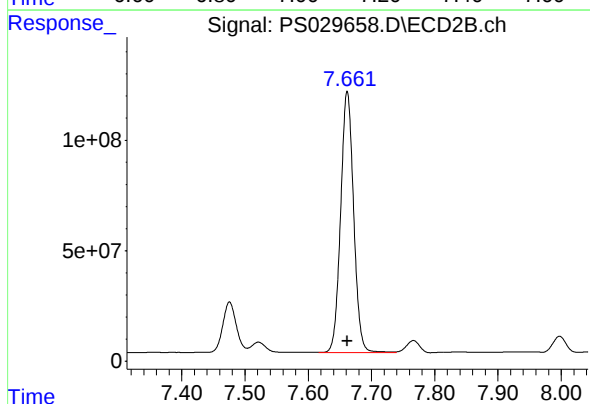
R.T.: 7.476 min
Delta R.T.: 0.000 min
Response: 338796484
Conc: 513.25 ng/ml



#5 DICAMBA

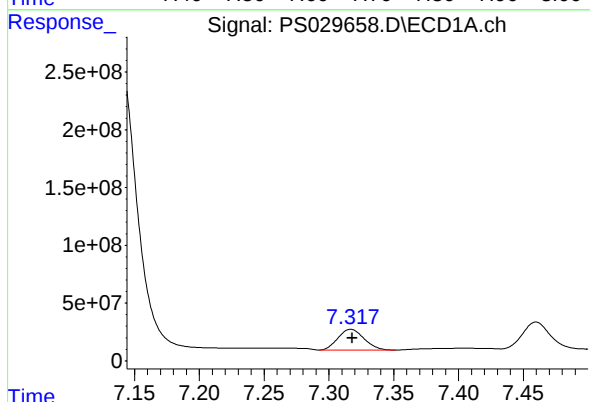
R.T.: 7.140 min
Delta R.T.: 0.000 min
Response: 3988816281
Conc: 481.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



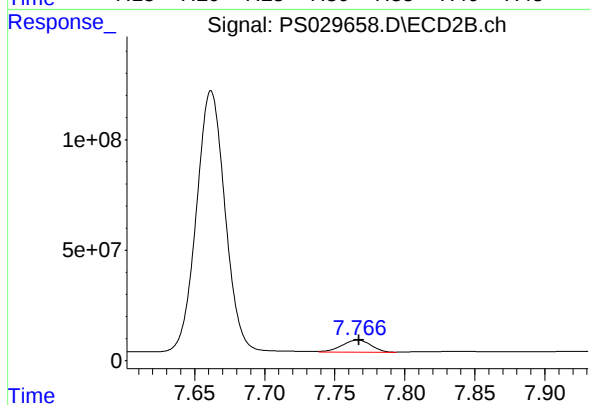
#5 DICAMBA

R.T.: 7.662 min
Delta R.T.: 0.000 min
Response: 1692444760
Conc: 463.40 ng/ml



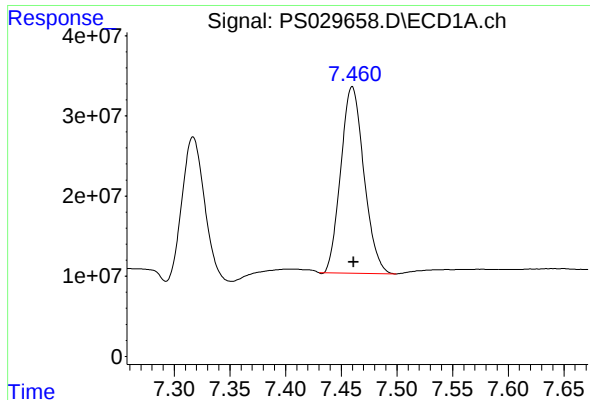
#6 MCPP

R.T.: 7.317 min
Delta R.T.: -0.001 min
Response: 251039502
Conc: 45.58 ug/ml



#6 MCPP

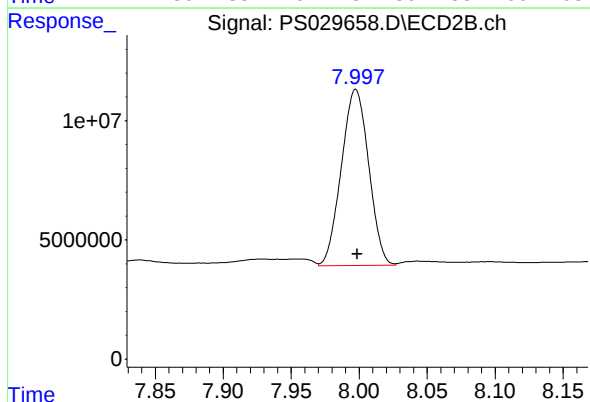
R.T.: 7.766 min
Delta R.T.: -0.001 min
Response: 80048671
Conc: 45.71 ug/ml



#7 MCPA

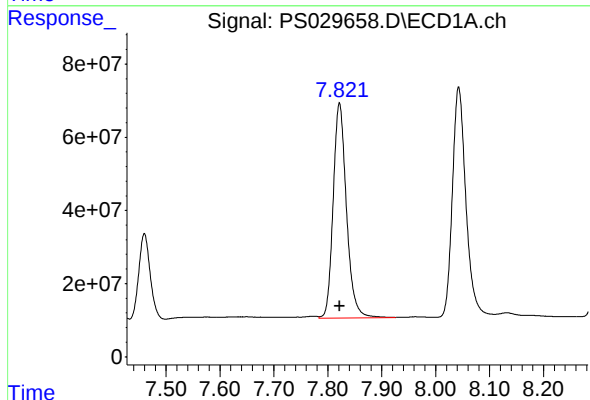
R.T.: 7.460 min
Delta R.T.: -0.001 min
Response: 336773031
Conc: 45.64 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



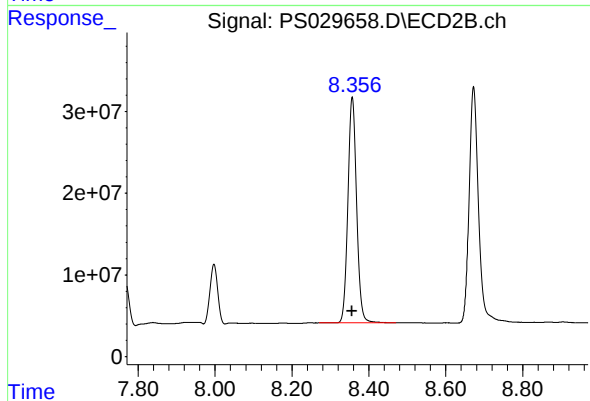
#7 MCPA

R.T.: 7.997 min
Delta R.T.: -0.001 min
Response: 103599616
Conc: 45.59 ug/ml



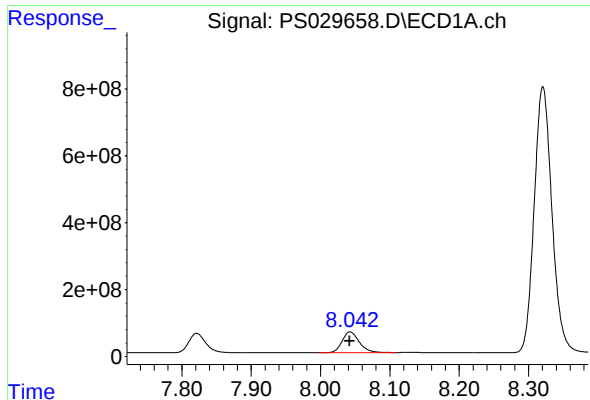
#8 DICHLORPROP

R.T.: 7.822 min
Delta R.T.: 0.000 min
Response: 1008003727
Conc: 487.38 ng/ml



#8 DICHLORPROP

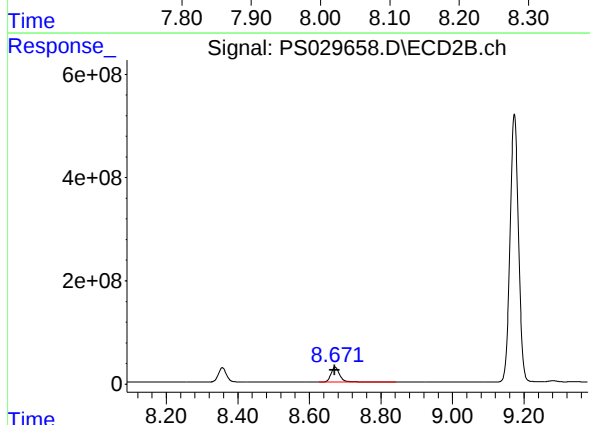
R.T.: 8.357 min
Delta R.T.: 0.000 min
Response: 434816803
Conc: 480.43 ng/ml



#9 2,4-D

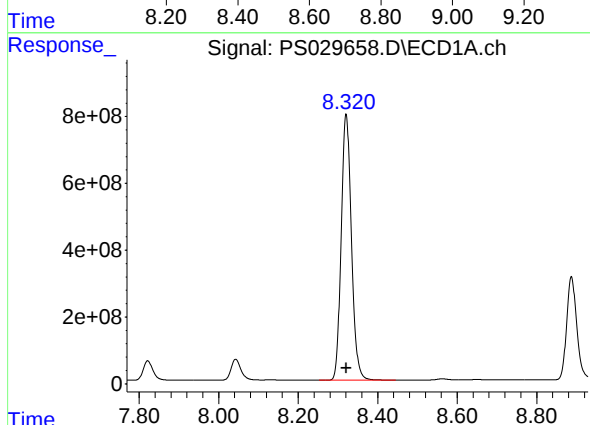
R.T.: 8.043 min
Delta R.T.: 0.000 min
Response: 1097342926
Conc: 483.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



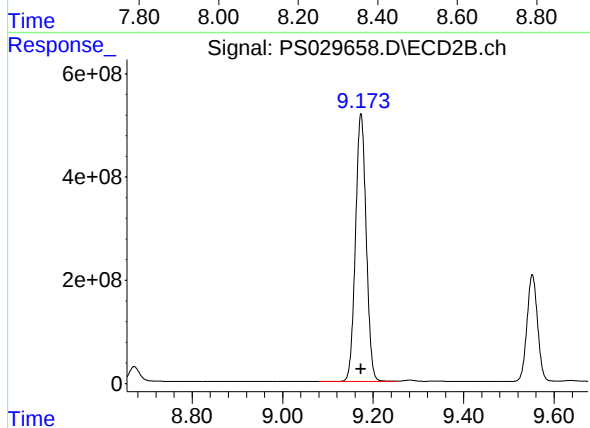
#9 2,4-D

R.T.: 8.672 min
Delta R.T.: 0.000 min
Response: 485813122
Conc: 484.35 ng/ml



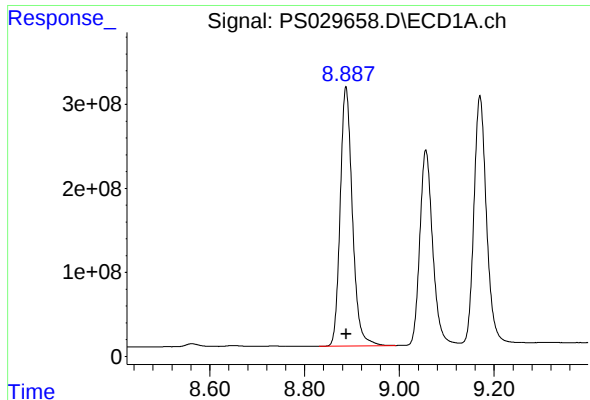
#10 Pentachlorophenol

R.T.: 8.321 min
Delta R.T.: 0.000 min
Response: 14175779414
Conc: 487.60 ng/ml



#10 Pentachlorophenol

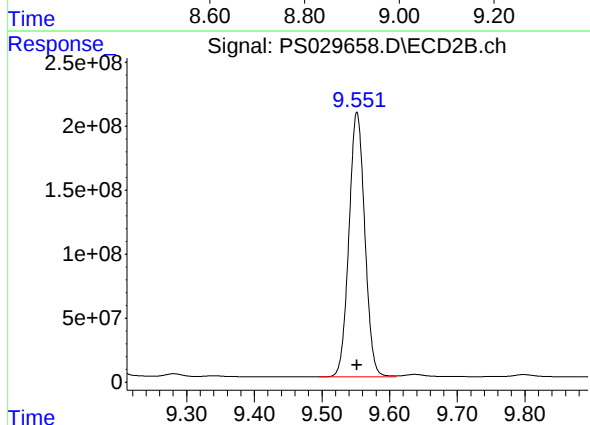
R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 8509405088
Conc: 480.21 ng/ml



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

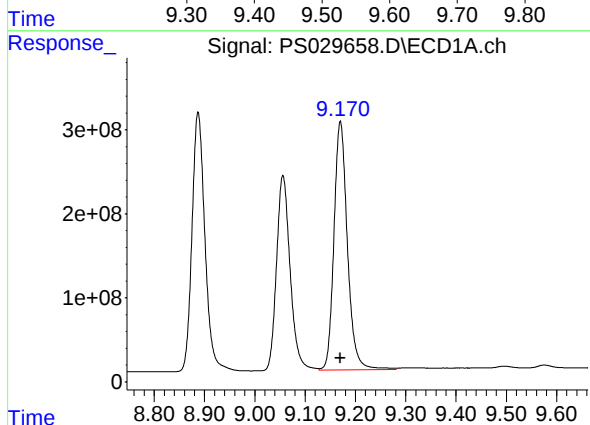
R.T.: 8.887 min
Delta R.T.: 0.000 min
Response: 5495408788
Conc: 485.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



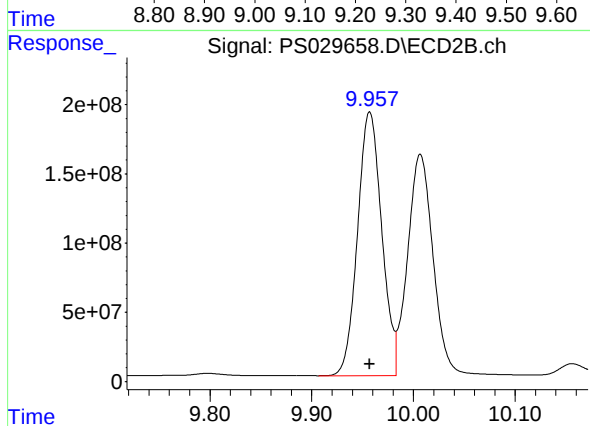
#11 2,4,5-TP (SILVEX)

R.T.: 9.552 min
Delta R.T.: 0.000 min
Response: 3355348379
Conc: 475.51 ng/ml



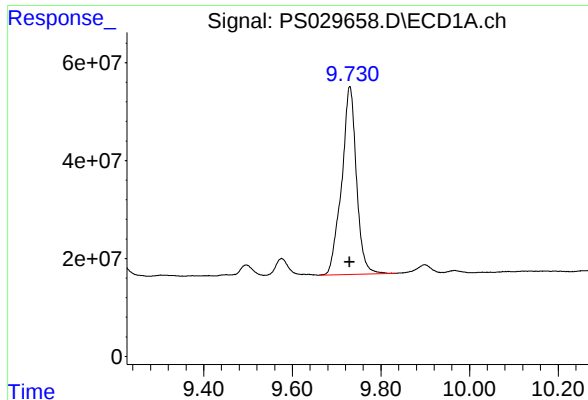
#12 2,4,5-T

R.T.: 9.170 min
Delta R.T.: 0.000 min
Response: 5489170816
Conc: 485.04 ng/ml



#12 2,4,5-T

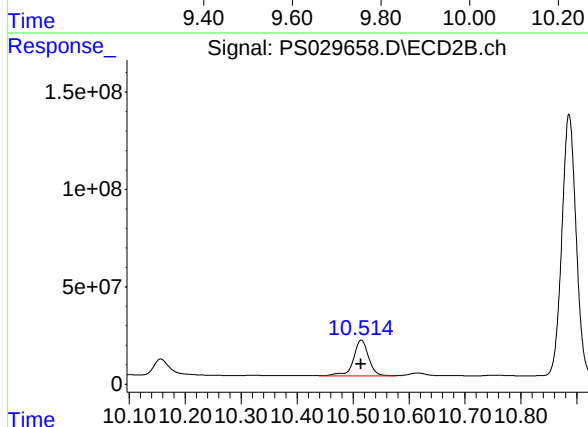
R.T.: 9.957 min
Delta R.T.: 0.000 min
Response: 3151075409
Conc: 476.80 ng/ml



#13 2,4-DB

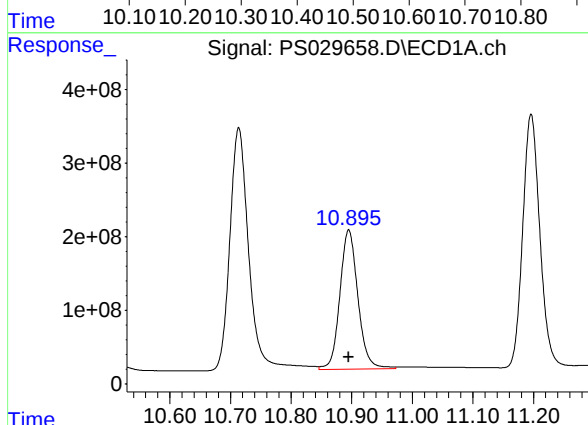
R.T.: 9.730 min
Delta R.T.: 0.000 min
Response: 891959970
Conc: 475.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



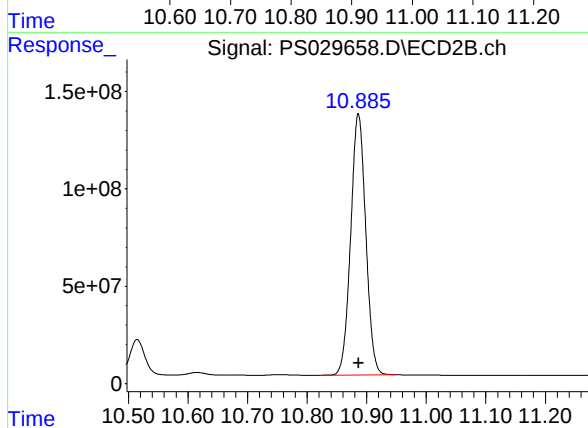
#13 2,4-DB

R.T.: 10.515 min
Delta R.T.: 0.000 min
Response: 347581679
Conc: 486.13 ng/ml



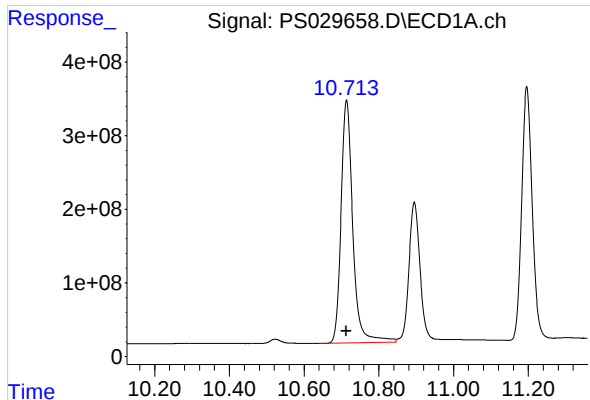
#14 DINOSEB

R.T.: 10.895 min
Delta R.T.: 0.000 min
Response: 3924458399
Conc: 473.10 ng/ml



#14 DINOSEB

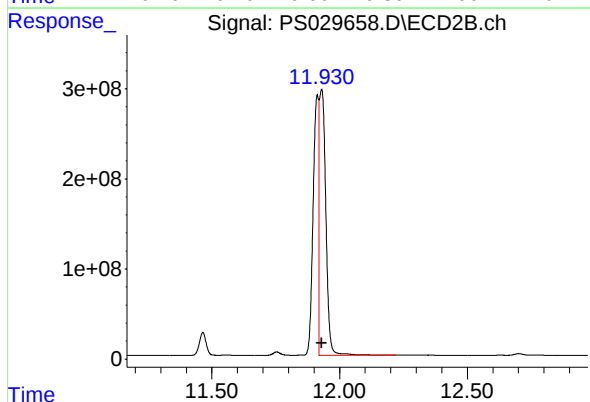
R.T.: 10.886 min
Delta R.T.: 0.000 min
Response: 2357060783
Conc: 475.97 ng/ml



#15 Picloram

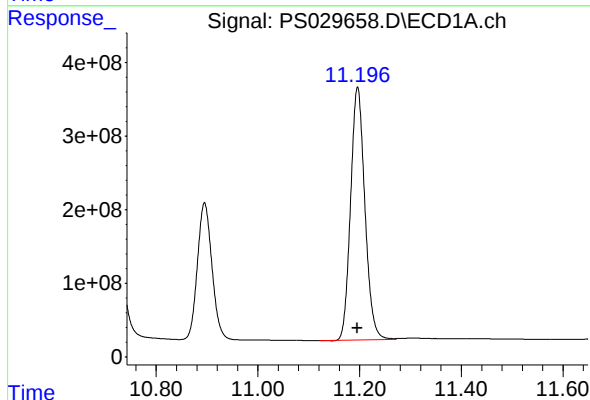
R.T.: 10.714 min
Delta R.T.: 0.000 min
Response: 7202160458
Conc: 474.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



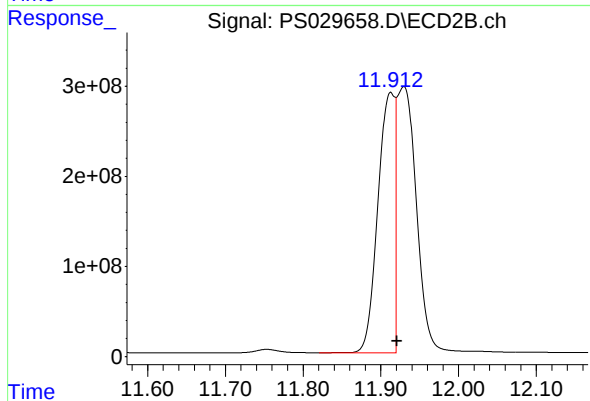
#15 Picloram

R.T.: 11.930 min
Delta R.T.: 0.000 min
Response: 5259679555
Conc: 474.41 ng/ml



#16 DCPA

R.T.: 11.196 min
Delta R.T.: 0.000 min
Response: 6699492104
Conc: 486.49 ng/ml



#16 DCPA

R.T.: 11.913 min
Delta R.T.: -0.008 min
Response: 4331176272
Conc: 430.96 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
 Data File : PS029659.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 02 Apr 2025 18:44
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC750

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 04/03/2025
 Supervised By : mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 02 21:47:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 21:45:08 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

System Monitoring Compounds							
4) S	2,4-DCAA	6.963	7.475	1484.5E6	495.1E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.463	2.533	2228.4E6	1046.8E6	682.500	682.500
2) T	3,5-DICHL...	6.165	6.470	2051.3E6	654.3E6	697.500	697.500
3) T	4-Nitroph...	6.753	7.009	929.4E6	466.5E6	682.500	682.500
5) T	DICAMBA	7.140	7.662	5837.2E6	2574.8E6	705.000	705.000
6) T	MCP	7.318	7.767	388.3E6	123.5E6	70.500	70.500
7) T	MCPA	7.461	7.999	514.6E6	158.5E6	69.750	69.750
8) T	DICHLORPROP	7.822	8.356	1458.1E6	638.1E6	705.000	705.000
9) T	2,4-D	8.042	8.671	1598.6E6	707.1E6	705.000	705.000
10) T	Pentachlo...	8.321	9.173	20714.3E6	12625.5E6	712.500	712.500
11) T	2,4,5-TP ...	8.888	9.551	8065.8E6	5027.7E6	712.500	712.500
12) T	2,4,5-T	9.170	9.957	8063.3E6	4708.7E6	712.500	712.500
13) T	2,4-DB	9.729	10.514	1337.9E6	509.4E6	712.500	712.500
14) T	DINOSEB	10.895	10.887	5848.2E6	3491.3E6	705.000	705.000
15) T	Picloram	10.713	11.930	10818.9E6	8266.2E6	712.500	745.591m
16) T	DCPA	11.195	11.913	9915.1E6	5912.6E6	720.000	588.309m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029659.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 18:44
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 7 Sample Multiplier: 1

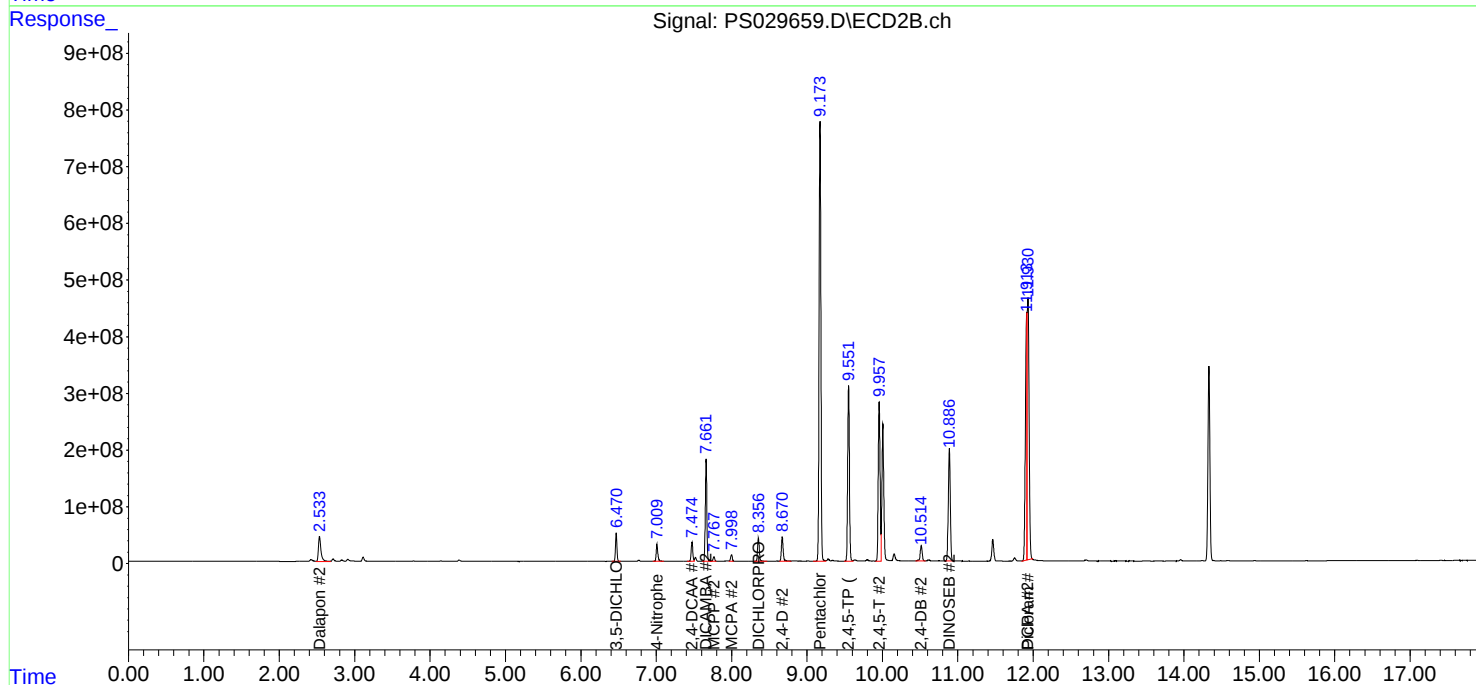
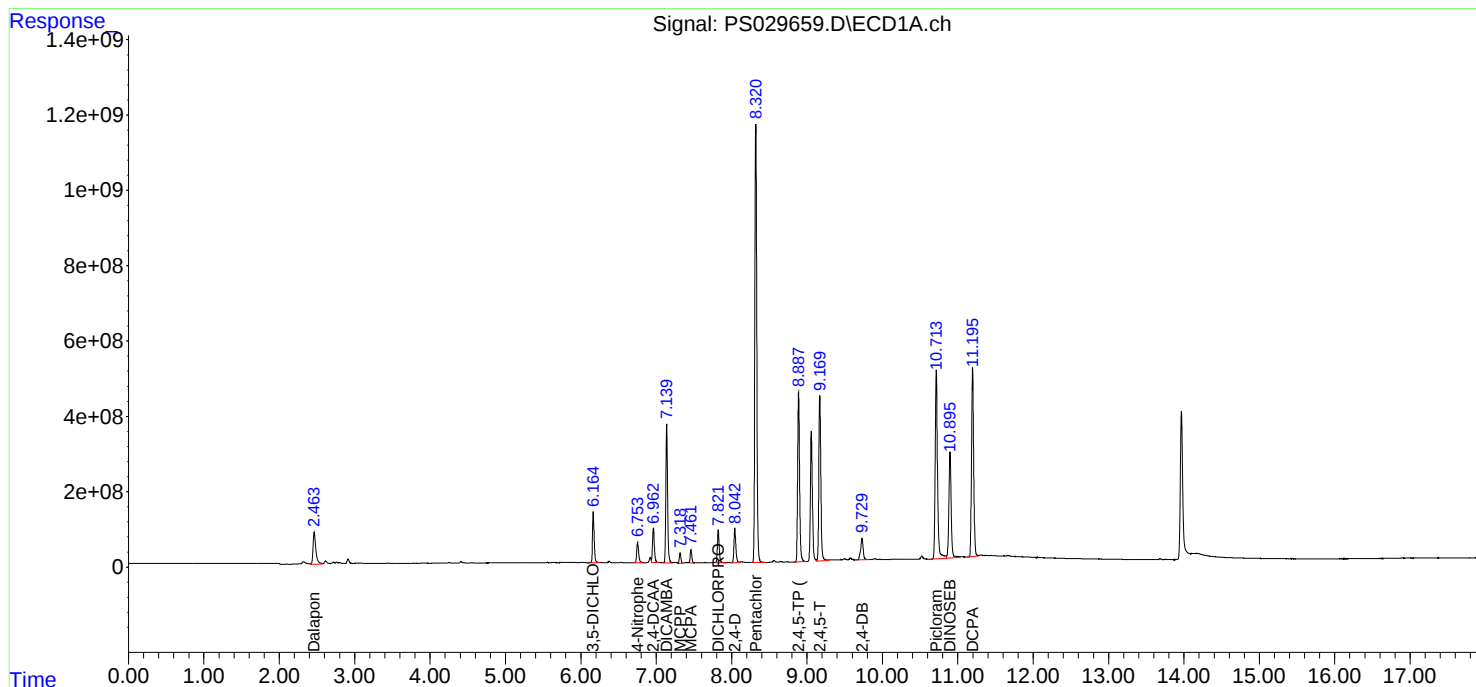
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

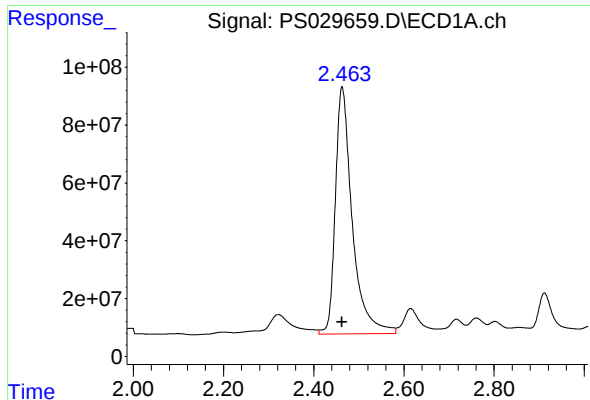
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 02 21:47:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:45:08 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





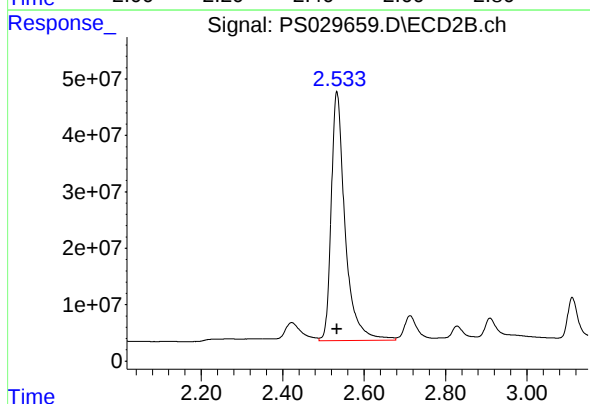
#1 Dalapon

R.T.: 2.463 min
Delta R.T.: 0.000 min
Response: 2228384729
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

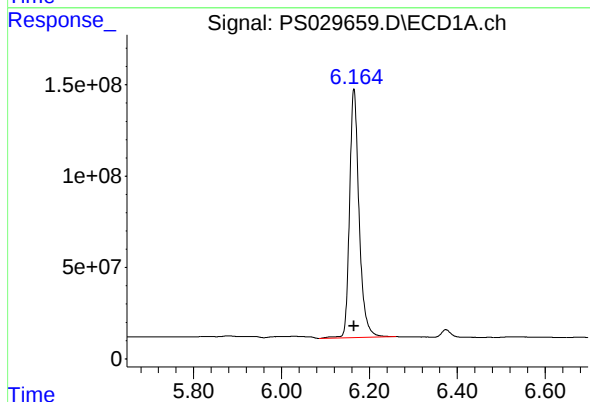
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



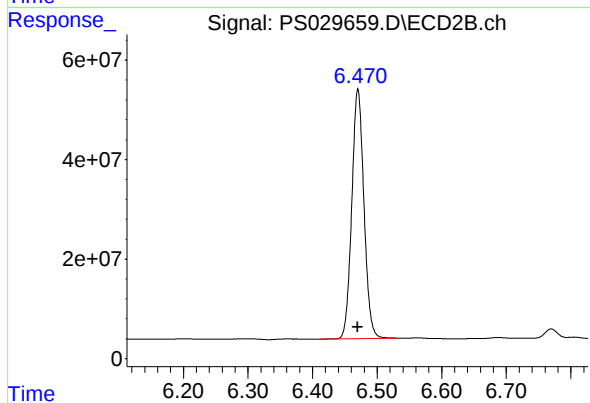
#1 Dalapon

R.T.: 2.533 min
Delta R.T.: 0.000 min
Response: 1046813946
Conc: 682.50 ng/ml



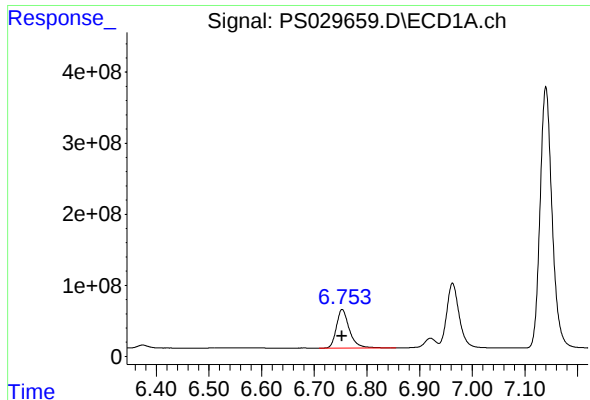
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.165 min
Delta R.T.: 0.000 min
Response: 2051257915
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.470 min
Delta R.T.: 0.000 min
Response: 654341240
Conc: 697.50 ng/ml



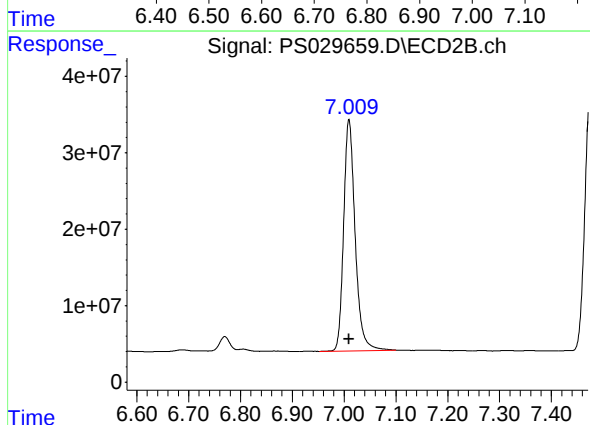
#3 4-Nitrophenol

R.T.: 6.753 min
Delta R.T.: 0.000 min
Response: 929448251
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

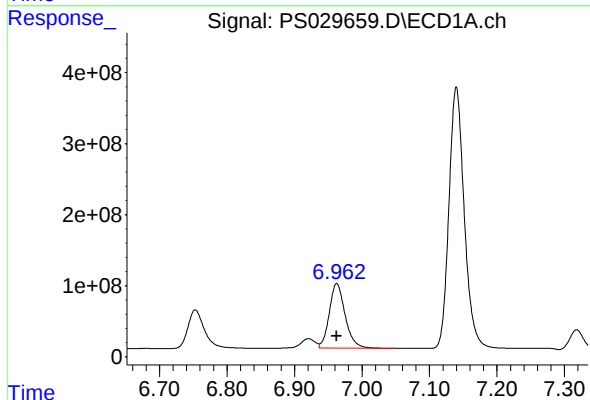
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



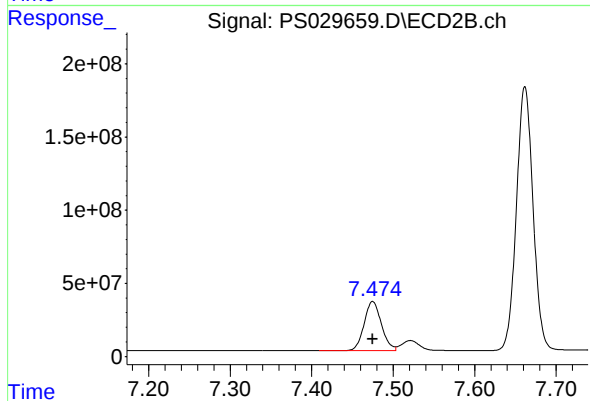
#3 4-Nitrophenol

R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 466483862
Conc: 682.50 ng/ml



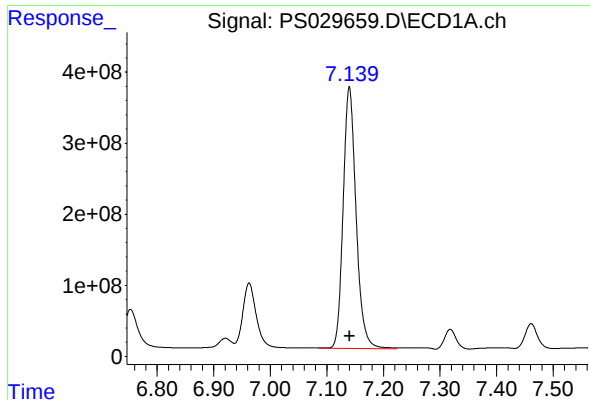
#4 2,4-DCAA

R.T.: 6.963 min
Delta R.T.: 0.000 min
Response: 1484503787
Conc: 750.00 ng/ml



#4 2,4-DCAA

R.T.: 7.475 min
Delta R.T.: 0.000 min
Response: 495076303
Conc: 750.00 ng/ml



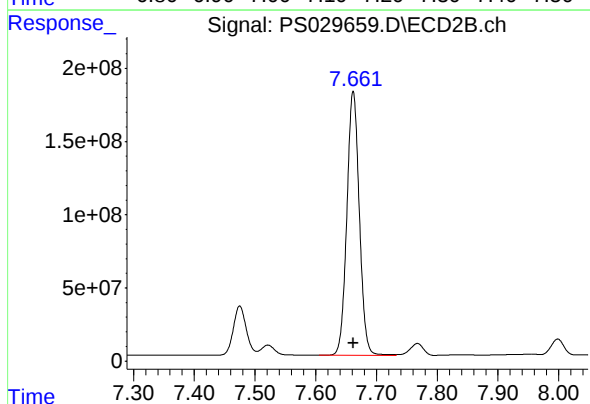
#5 DICAMBA

R.T.: 7.140 min
Delta R.T.: 0.000 min
Response: 5837239041
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

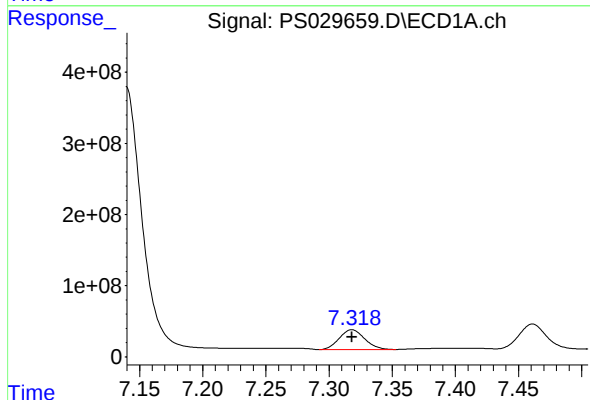
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



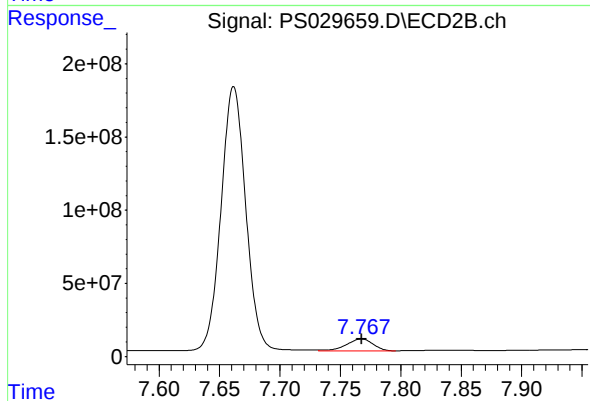
#5 DICAMBA

R.T.: 7.662 min
Delta R.T.: 0.000 min
Response: 2574833457
Conc: 705.00 ng/ml



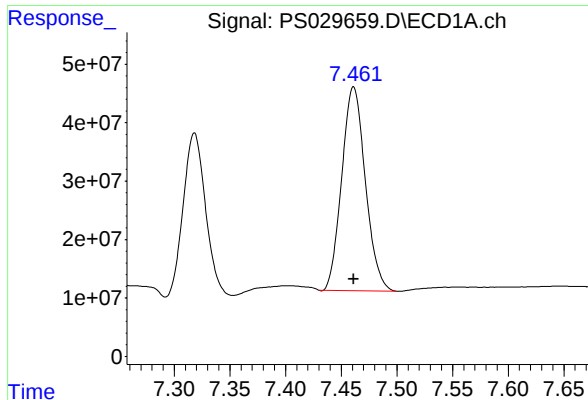
#6 MCPP

R.T.: 7.318 min
Delta R.T.: 0.000 min
Response: 388273166
Conc: 70.50 ug/ml



#6 MCPP

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 123459301
Conc: 70.50 ug/ml



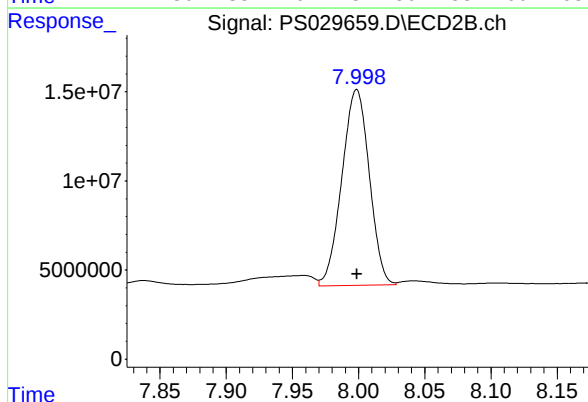
#7 MCPA

R.T.: 7.461 min
Delta R.T.: 0.000 min
Response: 514646256
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

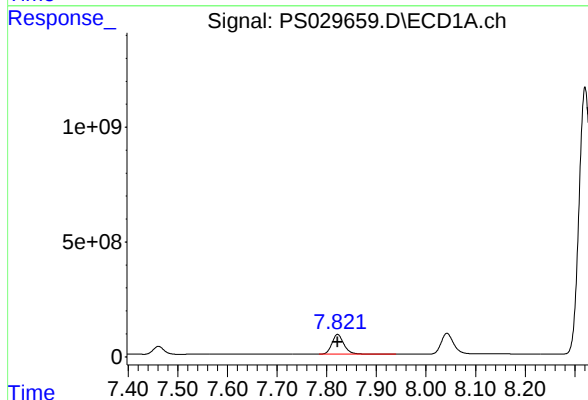
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



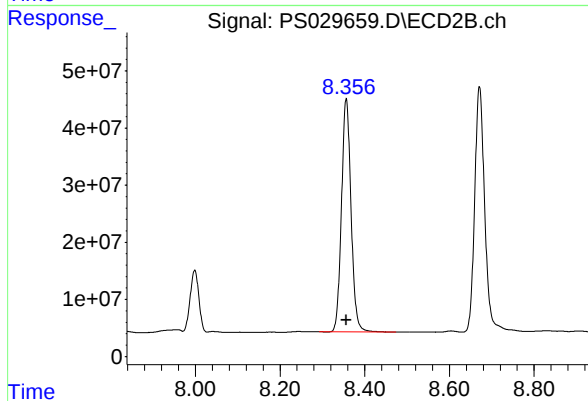
#7 MCPA

R.T.: 7.999 min
Delta R.T.: 0.000 min
Response: 158487737
Conc: 69.75 ug/ml



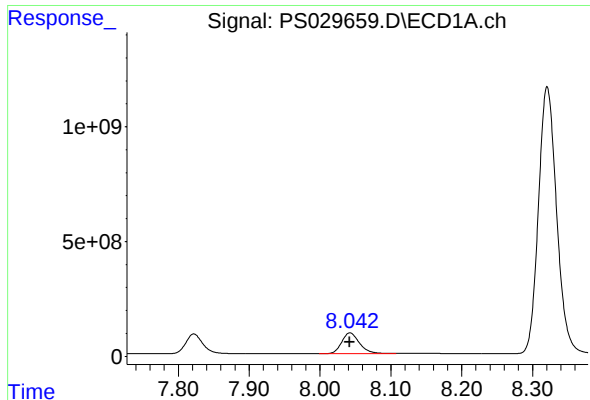
#8 DICHLORPROP

R.T.: 7.822 min
Delta R.T.: 0.000 min
Response: 1458089230
Conc: 705.00 ng/ml



#8 DICHLORPROP

R.T.: 8.356 min
Delta R.T.: 0.000 min
Response: 638070319
Conc: 705.00 ng/ml



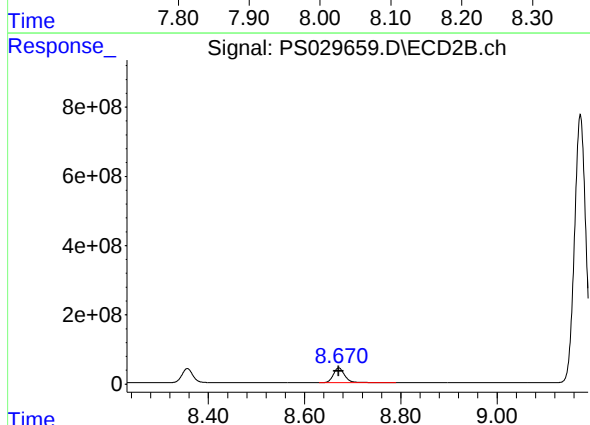
#9 2,4-D

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 1598642604
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

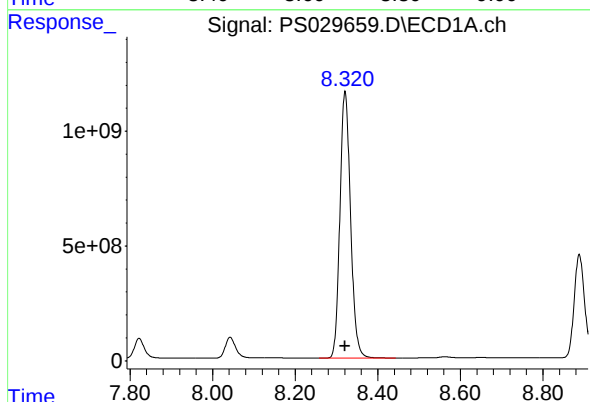
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



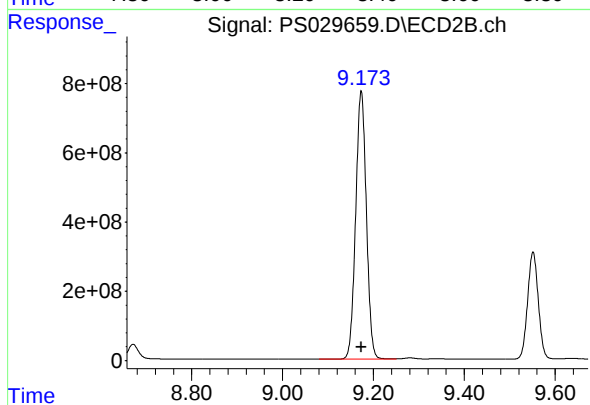
#9 2,4-D

R.T.: 8.671 min
Delta R.T.: 0.000 min
Response: 707133970
Conc: 705.00 ng/ml



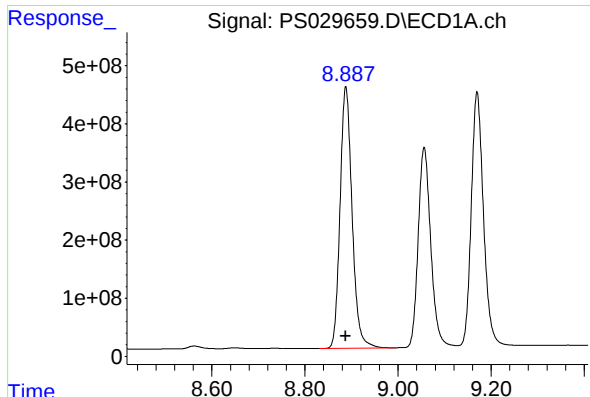
#10 Pentachlorophenol

R.T.: 8.321 min
Delta R.T.: 0.000 min
Response: 20714283824
Conc: 712.50 ng/ml



#10 Pentachlorophenol

R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 12625547070
Conc: 712.50 ng/ml



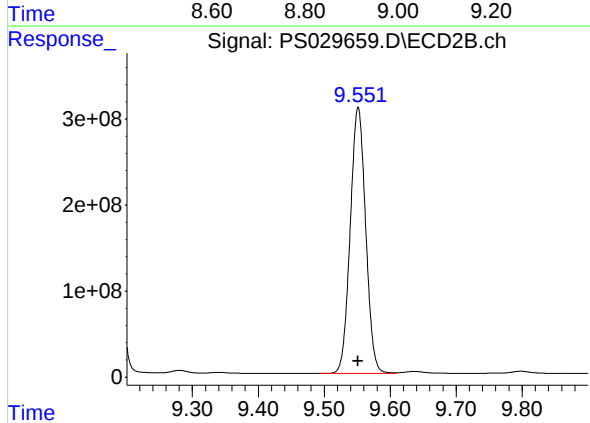
#11 2,4,5-TP (SILVEX)

R.T.: 8.888 min
Delta R.T.: 0.000 min
Response: 8065771048
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

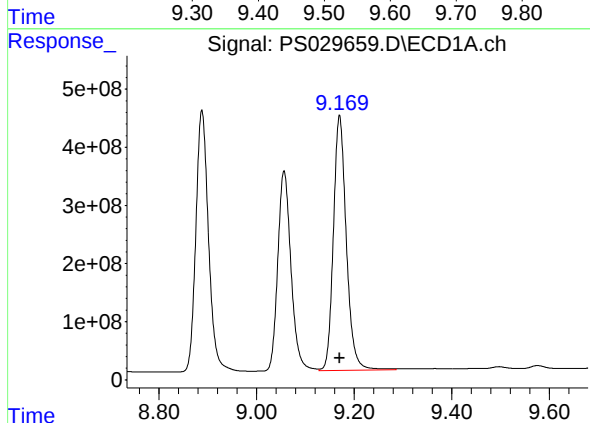
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



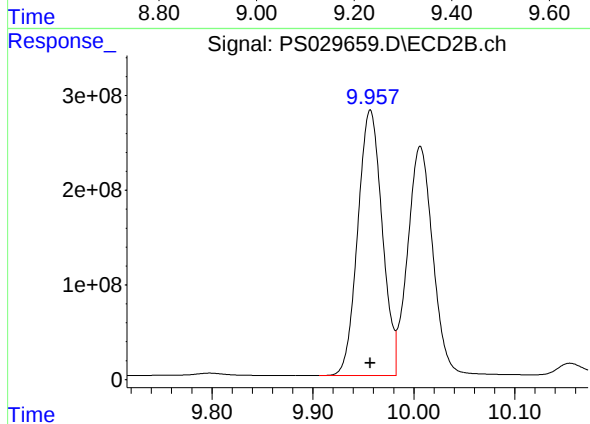
#11 2,4,5-TP (SILVEX)

R.T.: 9.551 min
Delta R.T.: 0.000 min
Response: 5027671480
Conc: 712.50 ng/ml



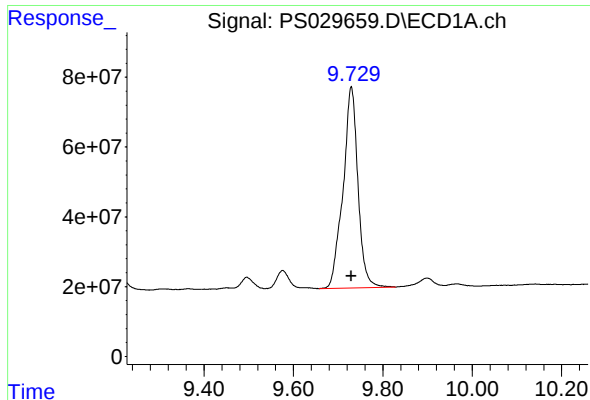
#12 2,4,5-T

R.T.: 9.170 min
Delta R.T.: 0.000 min
Response: 8063347000
Conc: 712.50 ng/ml



#12 2,4,5-T

R.T.: 9.957 min
Delta R.T.: 0.000 min
Response: 4708725173
Conc: 712.50 ng/ml



#13 2,4-DB

R.T.: 9.729 min
Delta R.T.: 0.000 min
Response: 1337934625
Conc: 712.50 ng/ml

Instrument :

ECD_S

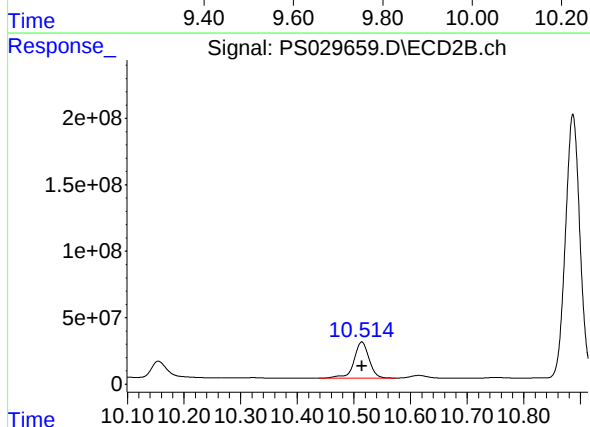
ClientSampleId :

HSTDICC750

Manual Integrations

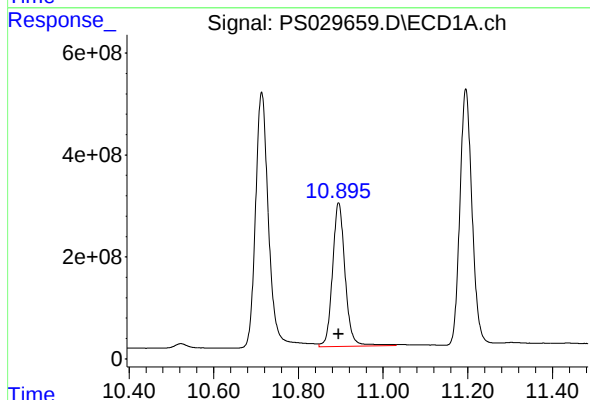
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



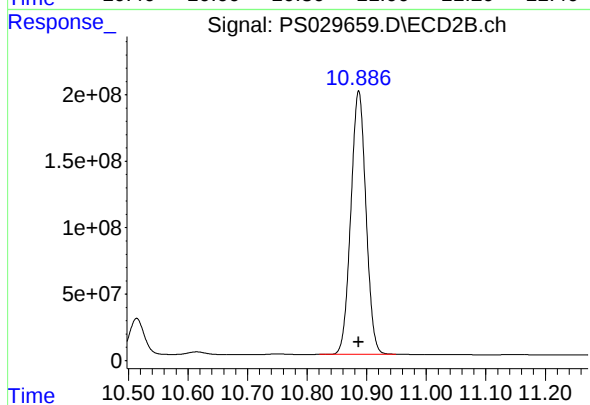
#13 2,4-DB

R.T.: 10.514 min
Delta R.T.: 0.000 min
Response: 509432895
Conc: 712.50 ng/ml



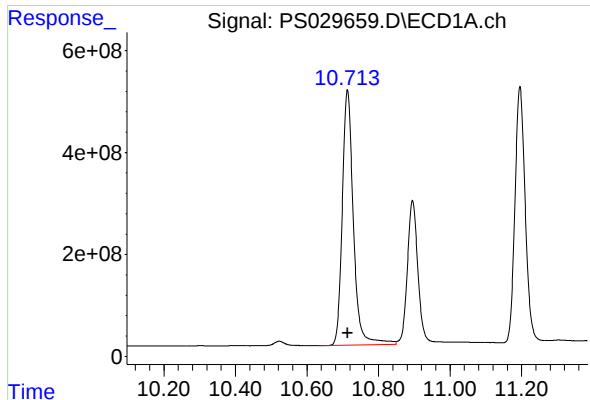
#14 DINOSEB

R.T.: 10.895 min
Delta R.T.: 0.000 min
Response: 5848156275
Conc: 705.00 ng/ml



#14 DINOSEB

R.T.: 10.887 min
Delta R.T.: 0.000 min
Response: 3491268927
Conc: 705.00 ng/ml



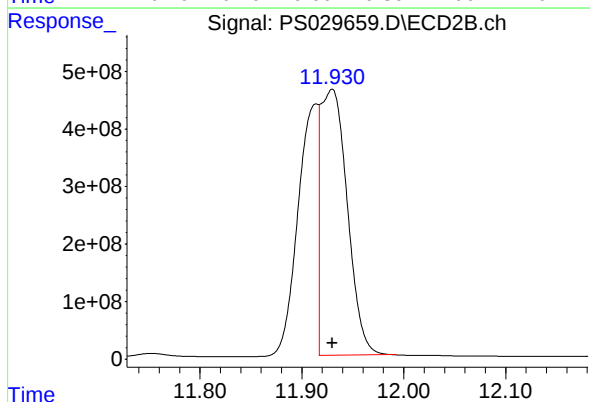
#15 Picloram

R.T.: 10.713 min
Delta R.T.: 0.000 min
Response: 10818873063
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

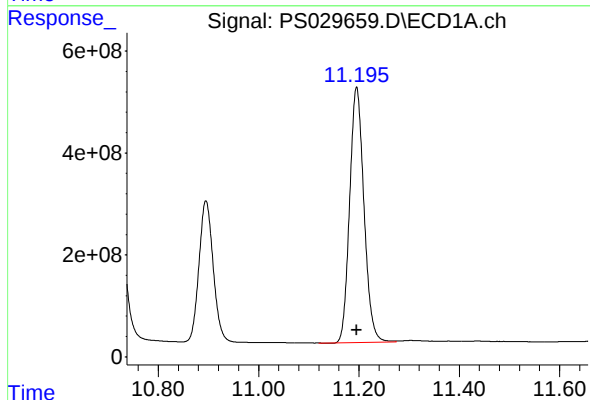
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



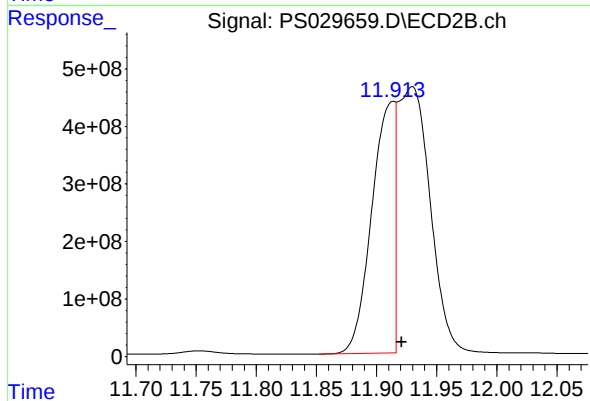
#15 Picloram

R.T.: 11.930 min
Delta R.T.: 0.000 min
Response: 8266209349
Conc: 745.59 ng/ml m



#16 DCPA

R.T.: 11.195 min
Delta R.T.: 0.000 min
Response: 9915081854
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 11.913 min
Delta R.T.: -0.007 min
Response: 5912584742
Conc: 588.31 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
 Data File : PS029660.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 02 Apr 2025 19:32
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 04/03/2025
 Supervised By :mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 02 21:47:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 21:45:08 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	6.963	7.475	1949.0E6	658.6E6	984.687	997.781
Target Compounds							
1) T	Dalapon	2.463	2.533	2931.9E6	1379.7E6	897.971	899.538
2) T	3,5-DICHL...	6.165	6.471	2698.4E6	869.7E6	917.551	927.061
3) T	4-Nitroph...	6.753	7.010	1229.4E6	617.9E6	902.763	903.979
5) T	DICAMBA	7.140	7.662	7768.3E6	3498.9E6	938.223	958.015
6) T	MCPD	7.319	7.769	543.2E6	167.9E6	98.636	95.855
7) T	MCPA	7.463	8.001	699.2E6	216.5E6	94.768	95.274
8) T	DICHLORPROP	7.822	8.357	1904.9E6	846.0E6	921.024	934.778
9) T	2,4-D	8.043	8.671	2112.0E6	943.5E6	931.373	940.657
10) T	Pentachlo...	8.322	9.174	27238.3E6	16770.4E6	936.904	946.407
11) T	2,4,5-TP ...	8.888	9.552	10687.3E6	6736.3E6	944.073	954.635
12) T	2,4,5-T	9.170	9.957	10696.9E6	6311.3E6	945.212	954.996
13) T	2,4-DB	9.730	10.515	1781.8E6	690.0E6	948.880	965.102
14) T	DINOSEB	10.895	10.887	7700.3E6	4684.3E6	928.272	945.920
15) T	Picloram	10.713	11.929	14447.2E6	12036.9E6	951.454	1085.696m
16) T	DCPA	11.196	11.916	13124.1E6	7801.9E6	953.028	776.299m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029660.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 19:32
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 9 Sample Multiplier: 1

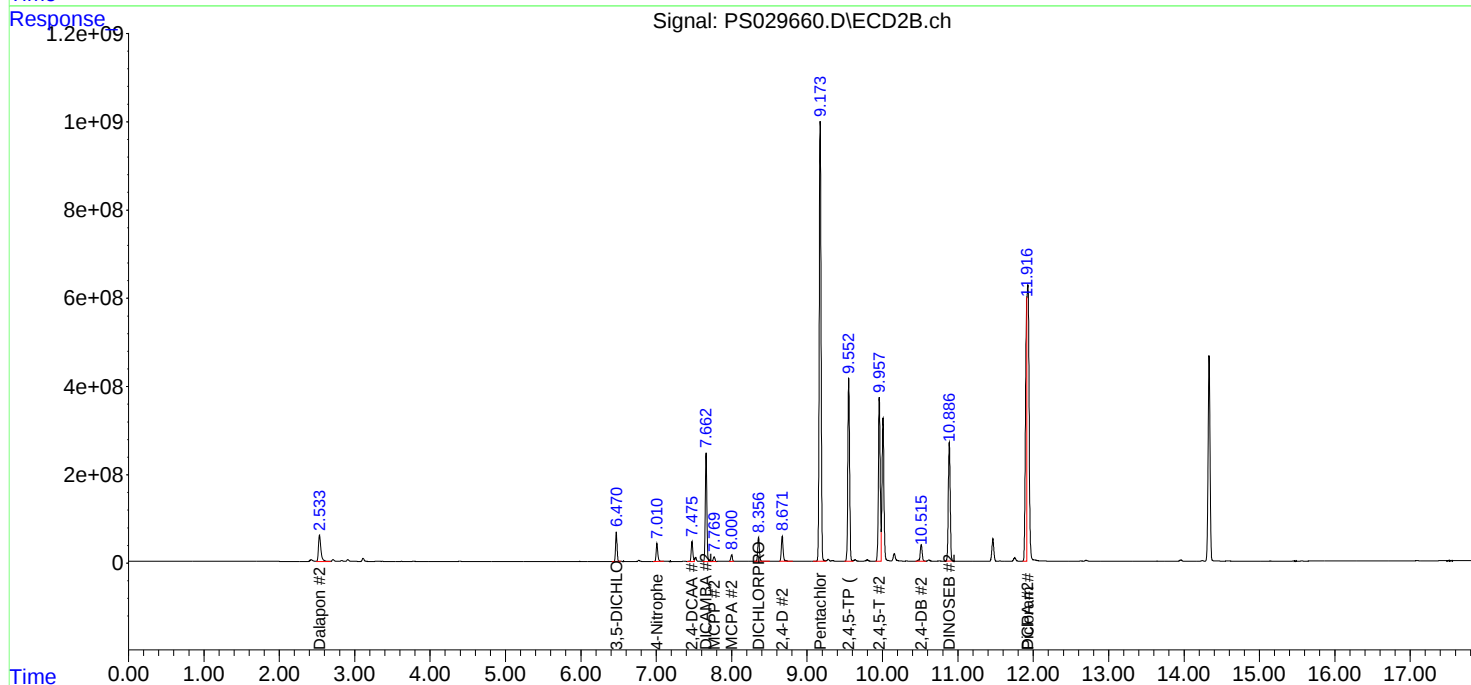
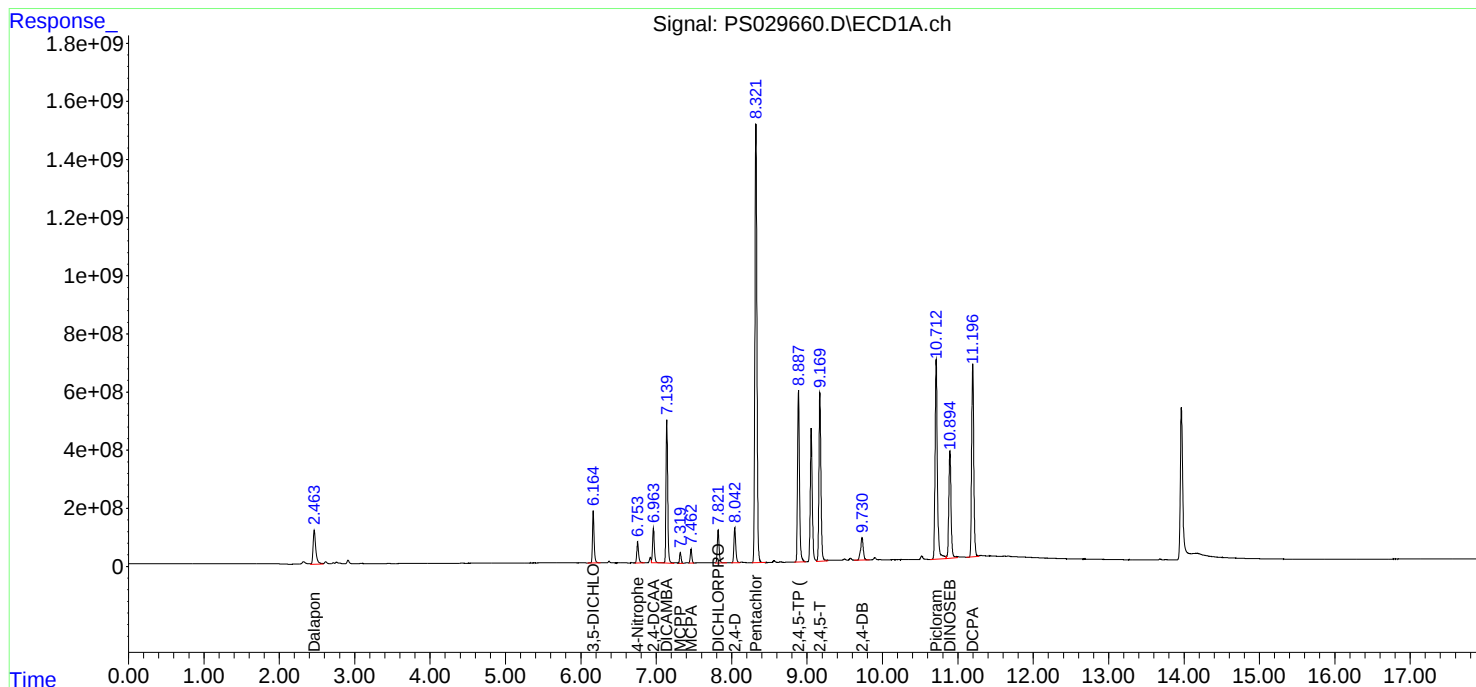
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

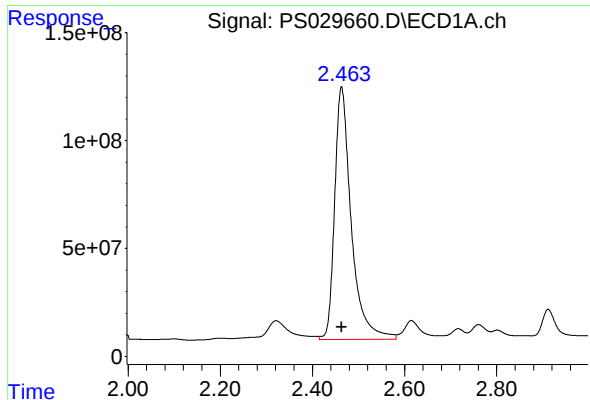
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/03/2025
Supervised By : mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 02 21:47:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:45:08 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





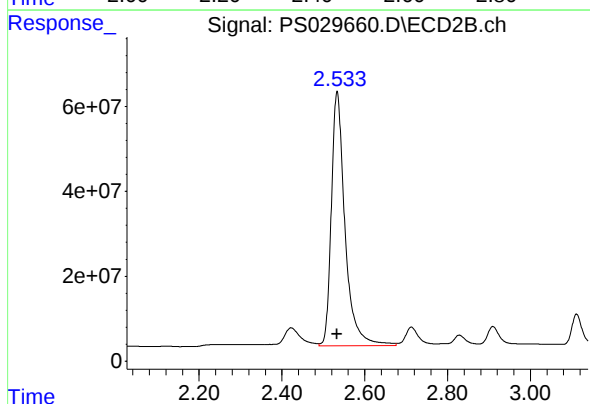
#1 Dalapon

R.T.: 2.463 min
Delta R.T.: 0.000 min
Response: 2931904194
Conc: 897.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

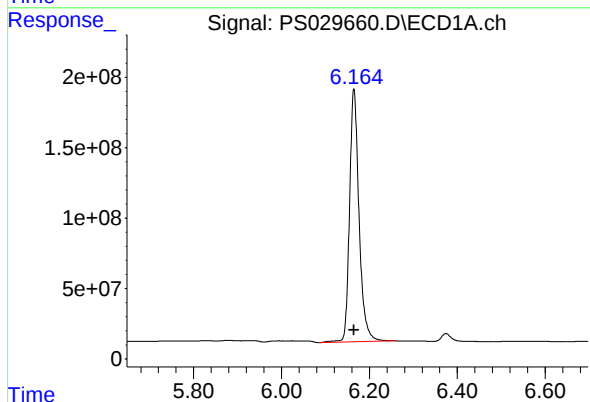
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



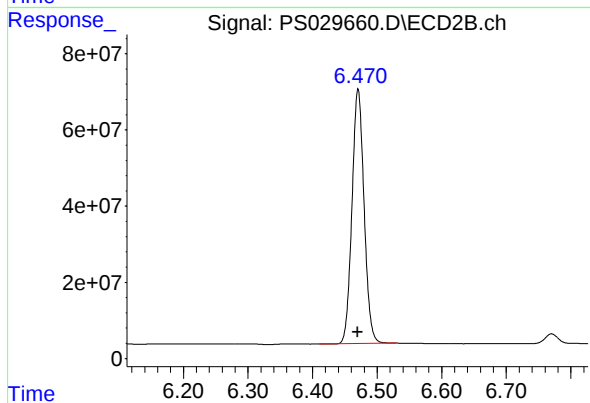
#1 Dalapon

R.T.: 2.533 min
Delta R.T.: 0.000 min
Response: 1379704778
Conc: 899.54 ng/ml



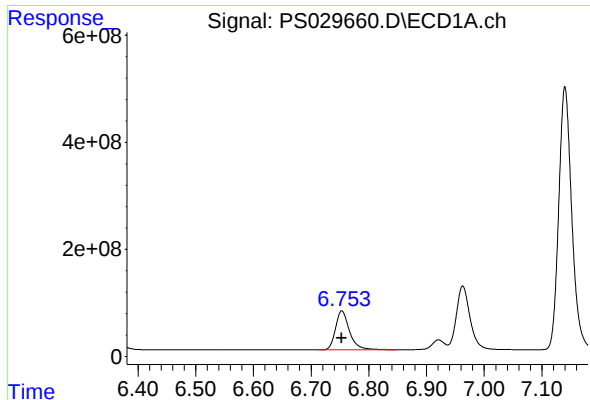
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.165 min
Delta R.T.: 0.000 min
Response: 2698400361
Conc: 917.55 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.471 min
Delta R.T.: 0.000 min
Response: 869698084
Conc: 927.06 ng/ml



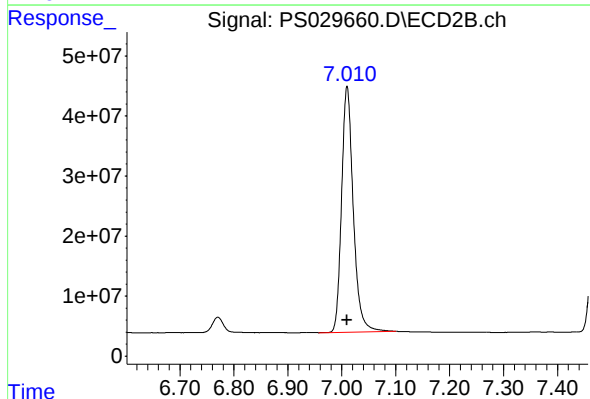
#3 4-Nitrophenol

R.T.: 6.753 min
Delta R.T.: 0.000 min
Response: 1229408712
Conc: 902.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

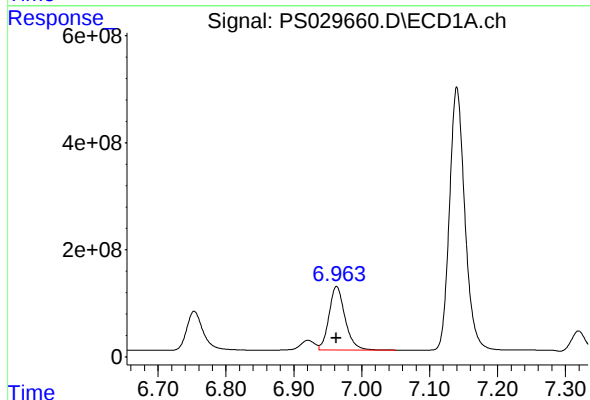
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



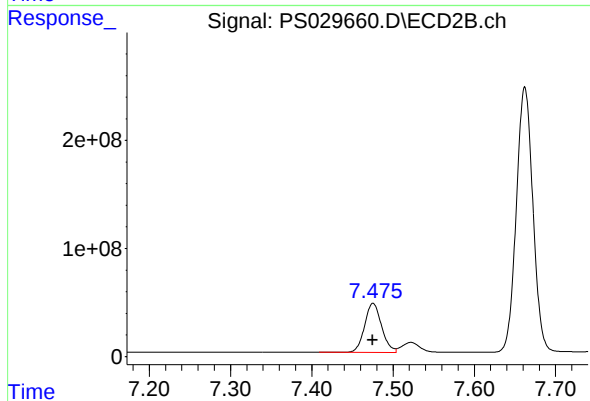
#3 4-Nitrophenol

R.T.: 7.010 min
Delta R.T.: 0.000 min
Response: 617862993
Conc: 903.98 ng/ml



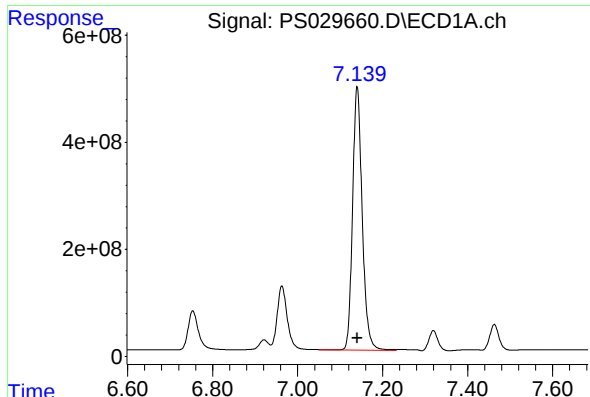
#4 2,4-DCAA

R.T.: 6.963 min
Delta R.T.: 0.000 min
Response: 1949027966
Conc: 984.69 ng/ml



#4 2,4-DCAA

R.T.: 7.475 min
Delta R.T.: 0.000 min
Response: 658637284
Conc: 997.78 ng/ml



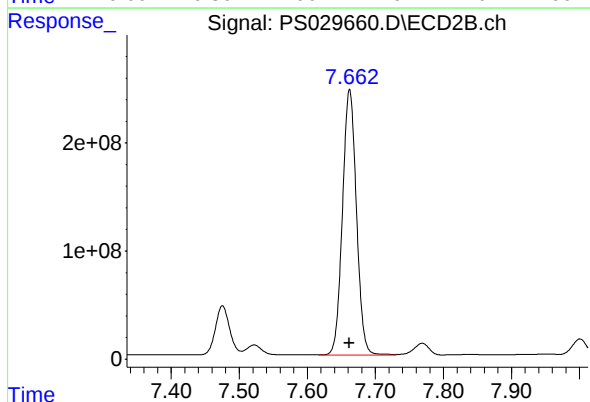
#5 DICAMBA

R.T.: 7.140 min
Delta R.T.: 0.000 min
Response: 7768270498
Conc: 938.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

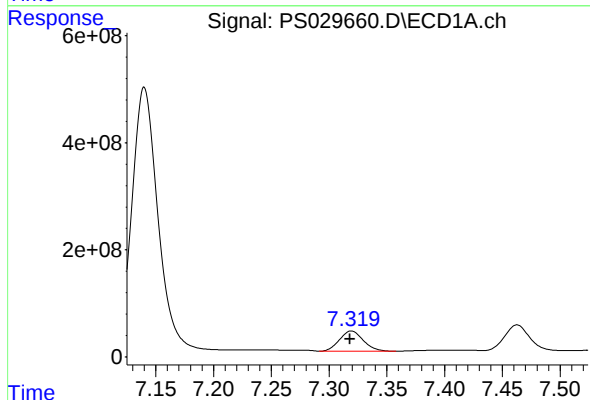
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



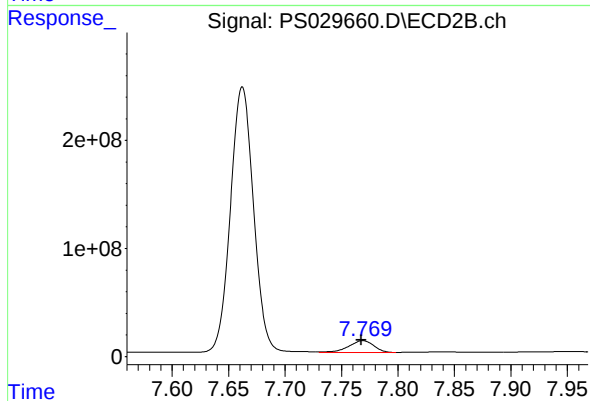
#5 DICAMBA

R.T.: 7.662 min
Delta R.T.: 0.000 min
Response: 3498905684
Conc: 958.01 ng/ml



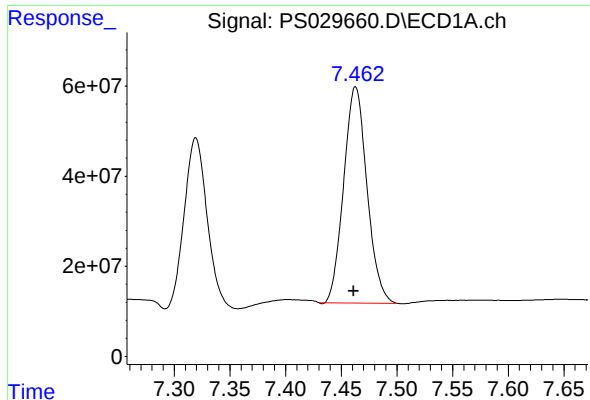
#6 MCP

R.T.: 7.319 min
Delta R.T.: 0.001 min
Response: 543229329
Conc: 98.64 ug/ml



#6 MCP

R.T.: 7.769 min
Delta R.T.: 0.002 min
Response: 167861106
Conc: 95.86 ug/ml



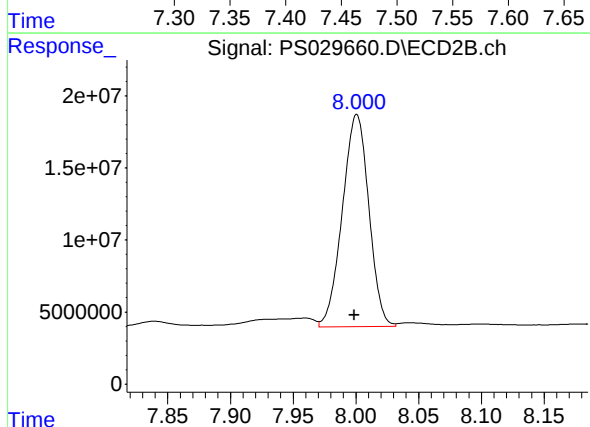
#7 MCPA

R.T.: 7.463 min
Delta R.T.: 0.002 min
Response: 699238388
Conc: 94.77 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

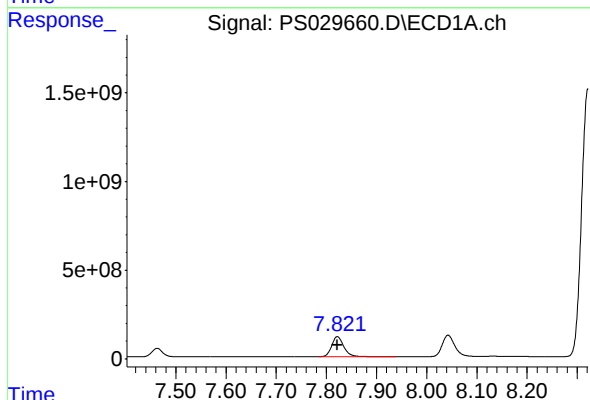
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



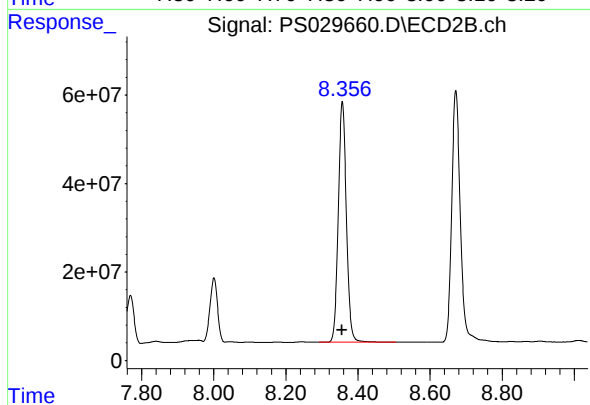
#7 MCPA

R.T.: 8.001 min
Delta R.T.: 0.002 min
Response: 216483308
Conc: 95.27 ug/ml



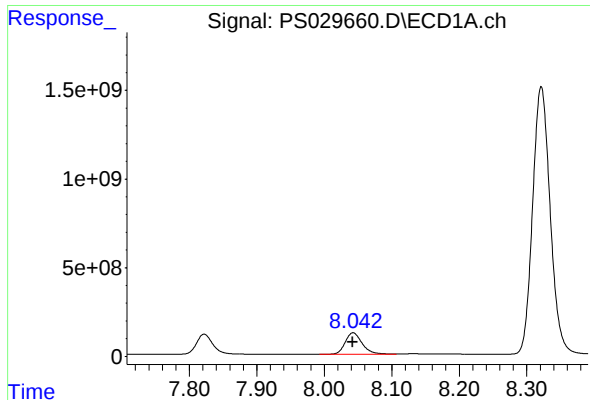
#8 DICHLORPROP

R.T.: 7.822 min
Delta R.T.: 0.000 min
Response: 1904873098
Conc: 921.02 ng/ml



#8 DICHLORPROP

R.T.: 8.357 min
Delta R.T.: 0.000 min
Response: 846033877
Conc: 934.78 ng/ml



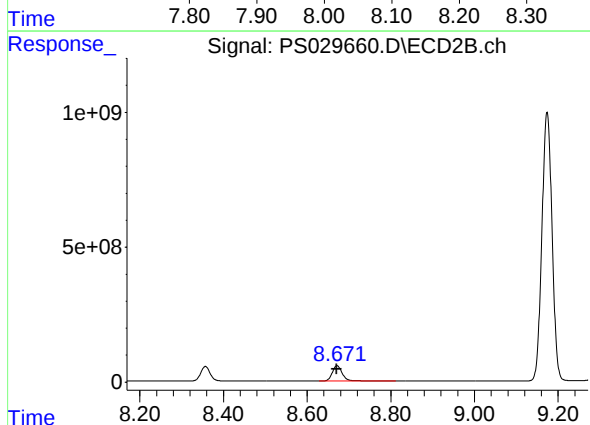
#9 2,4-D

R.T.: 8.043 min
Delta R.T.: 0.000 min
Response: 2111960224
Conc: 931.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

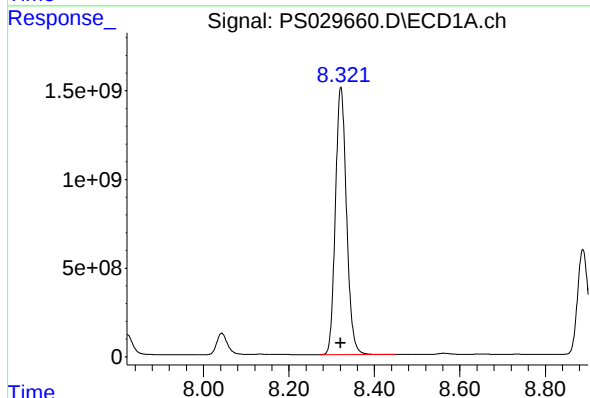
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



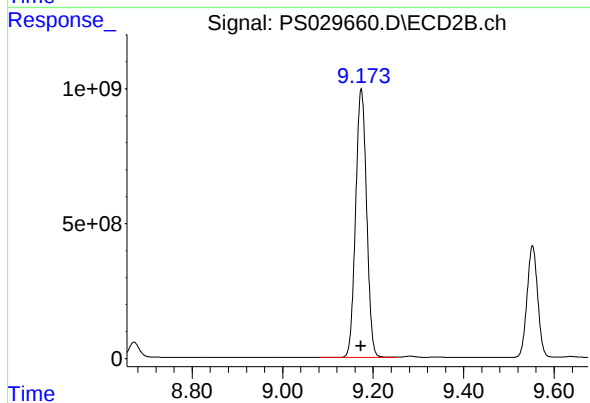
#9 2,4-D

R.T.: 8.671 min
Delta R.T.: 0.000 min
Response: 943504117
Conc: 940.66 ng/ml



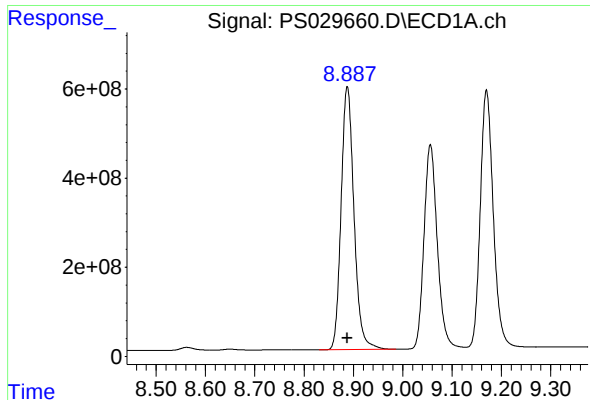
#10 Pentachlorophenol

R.T.: 8.322 min
Delta R.T.: 0.000 min
Response: 27238310436
Conc: 936.90 ng/ml



#10 Pentachlorophenol

R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 16770397791
Conc: 946.41 ng/ml



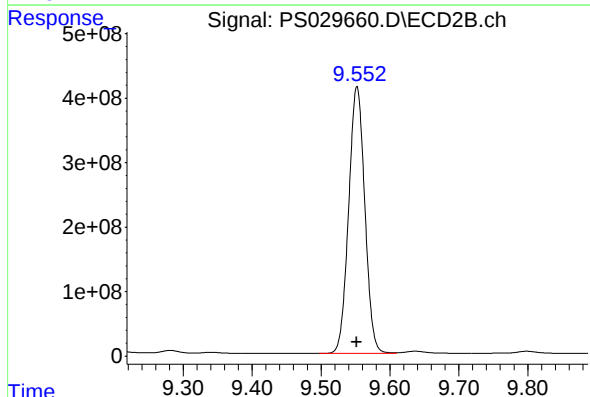
#11 2,4,5-TP (SILVEX)

R.T.: 8.888 min
Delta R.T.: 0.000 min
Response: 10687262604
Conc: 944.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

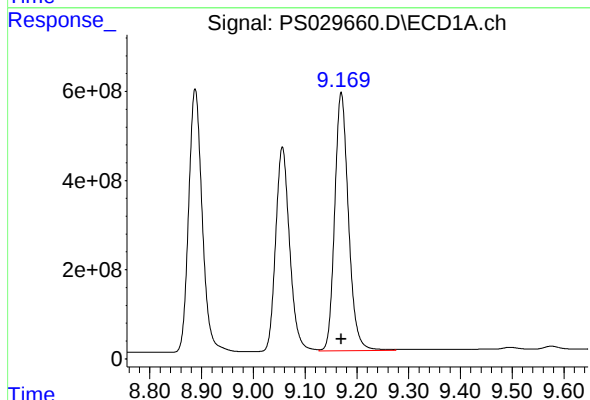
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



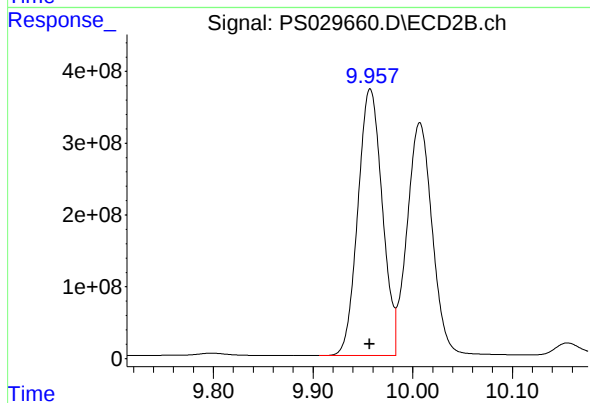
#11 2,4,5-TP (SILVEX)

R.T.: 9.552 min
Delta R.T.: 0.000 min
Response: 6736269494
Conc: 954.64 ng/ml



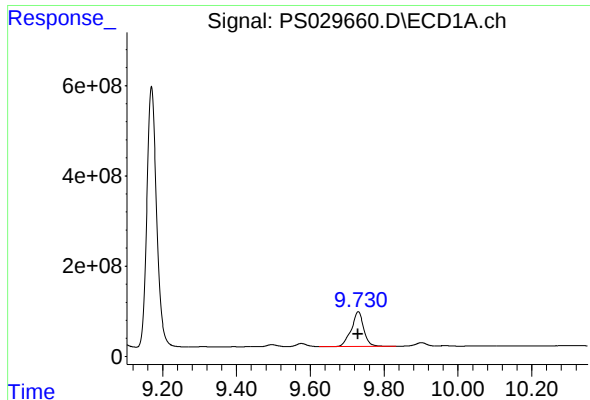
#12 2,4,5-T

R.T.: 9.170 min
Delta R.T.: 0.000 min
Response: 10696948094
Conc: 945.21 ng/ml



#12 2,4,5-T

R.T.: 9.957 min
Delta R.T.: 0.000 min
Response: 6311320366
Conc: 955.00 ng/ml



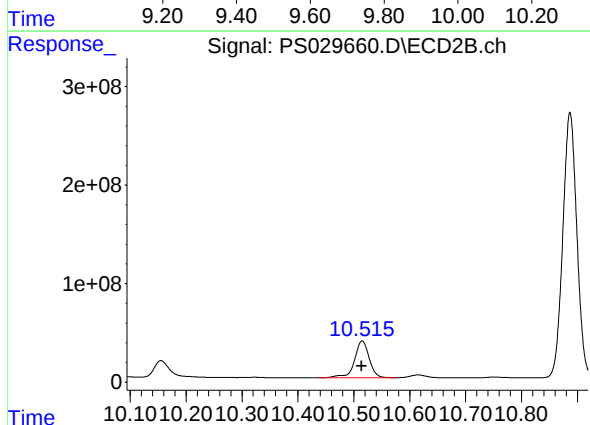
#13 2,4-DB

R.T.: 9.730 min
Delta R.T.: 0.000 min
Response: 1781810233
Conc: 948.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

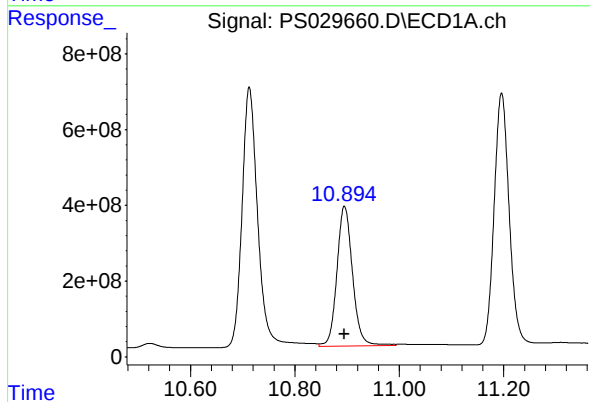
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



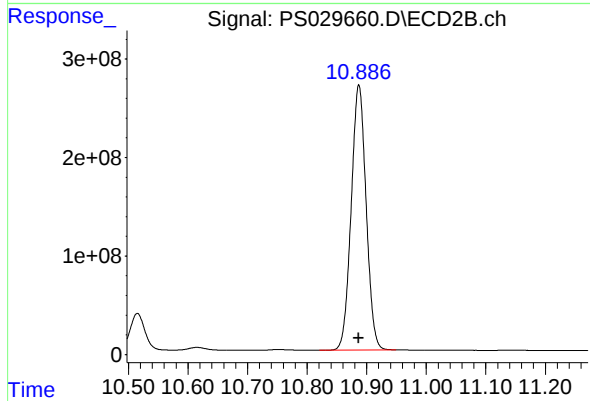
#13 2,4-DB

R.T.: 10.515 min
Delta R.T.: 0.001 min
Response: 690041535
Conc: 965.10 ng/ml



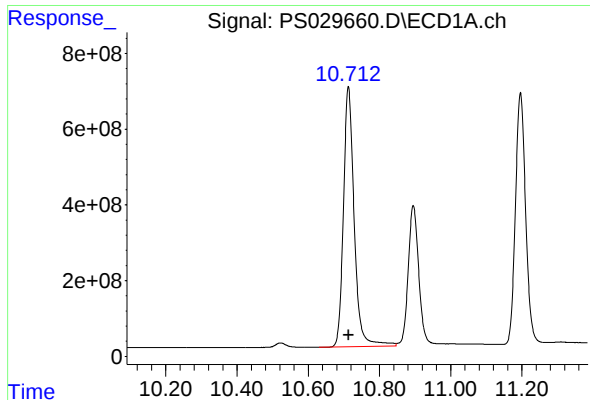
#14 DINOSEB

R.T.: 10.895 min
Delta R.T.: 0.000 min
Response: 7700250924
Conc: 928.27 ng/ml



#14 DINOSEB

R.T.: 10.887 min
Delta R.T.: 0.000 min
Response: 4684339661
Conc: 945.92 ng/ml



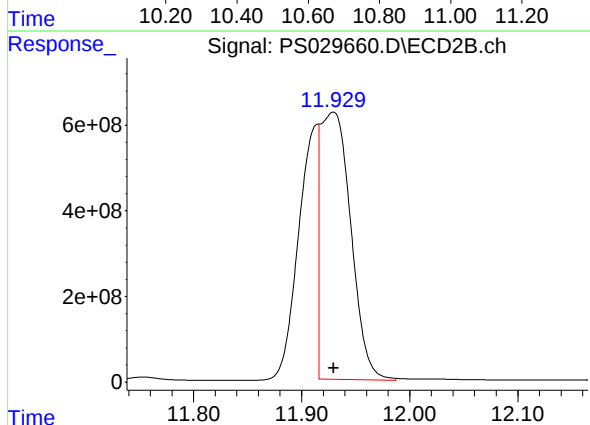
#15 Picloram

R.T.: 10.713 min
Delta R.T.: 0.000 min
Response: 14447241965
Conc: 951.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

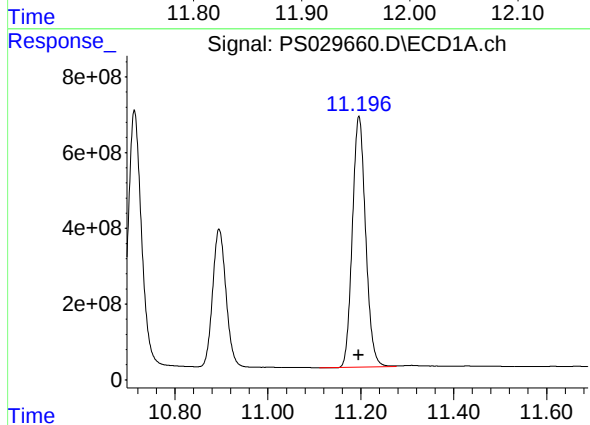
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



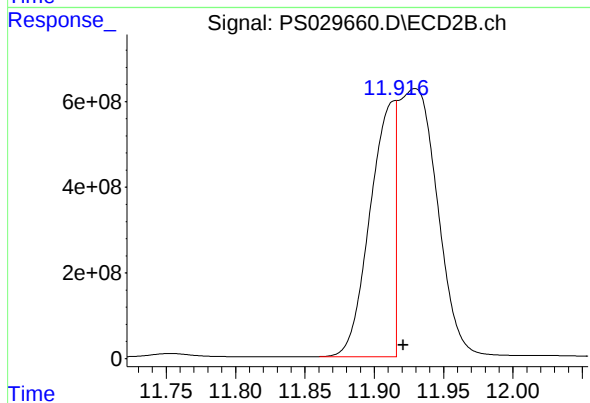
#15 Picloram

R.T.: 11.929 min
Delta R.T.: 0.000 min
Response: 12036880251
Conc: 1085.70 ng/ml m



#16 DCPA

R.T.: 11.196 min
Delta R.T.: 0.000 min
Response: 13124092426
Conc: 953.03 ng/ml



#16 DCPA

R.T.: 11.916 min
Delta R.T.: -0.005 min
Response: 7801908533
Conc: 776.30 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
 Data File : PS029661.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 02 Apr 2025 20:44
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 04/03/2025
 Supervised By : mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 02 21:51:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 21:45:08 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

System Monitoring Compounds							
4) S	2,4-DCAA	6.962	7.475	2841.0E6	981.8E6	1435.303	1487.406
Target Compounds							
1) T	Dalapon	2.462	2.532	4108.4E6	1942.9E6	1258.290	1266.710
2) T	3,5-DICHL...	6.164	6.469	3928.4E6	1296.2E6	1335.806	1381.746
3) T	4-Nitroph...	6.752	7.009	1875.7E6	929.8E6	1377.303	1360.341
5) T	DICAMBA	7.139	7.661	10886.5E6	5336.9E6	1314.829	1461.273
6) T	MCP	7.321	7.771	837.1E6	239.9E6	151.995	136.979
7) T	MCPA	7.464	8.003	1077.4E6	321.6E6	146.013	141.540
8) T	DICHLORPROP	7.821	8.356	2998.8E6	1359.0E6	1449.942	1501.547
9) T	2,4-D	8.041	8.670	3352.7E6	1534.4E6	1478.541	1529.798
10) T	Pentachlo...	8.320	9.173	41860.3E6	24798.8E6	1439.850	1399.475
11) T	2,4,5-TP ...	8.887	9.551	15973.5E6	10314.3E6	1411.040	1461.696
12) T	2,4,5-T	9.169	9.956	15670.7E6	9380.7E6	1384.705	1419.436
13) T	2,4-DB	9.729	10.514	2397.1E6	1045.2E6	1276.563	1461.825
14) T	DINOSEB	10.894	10.886	11584.2E6	7136.0E6	1396.490	1440.994
15) T	Picloram	10.712	11.927	21908.2E6	17647.2E6	1442.814	1591.730m
16) T	DCPA	11.195	11.918	19405.2E6	13389.7E6	1409.141	1332.294m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029661.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 20:44
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 12 Sample Multiplier: 1

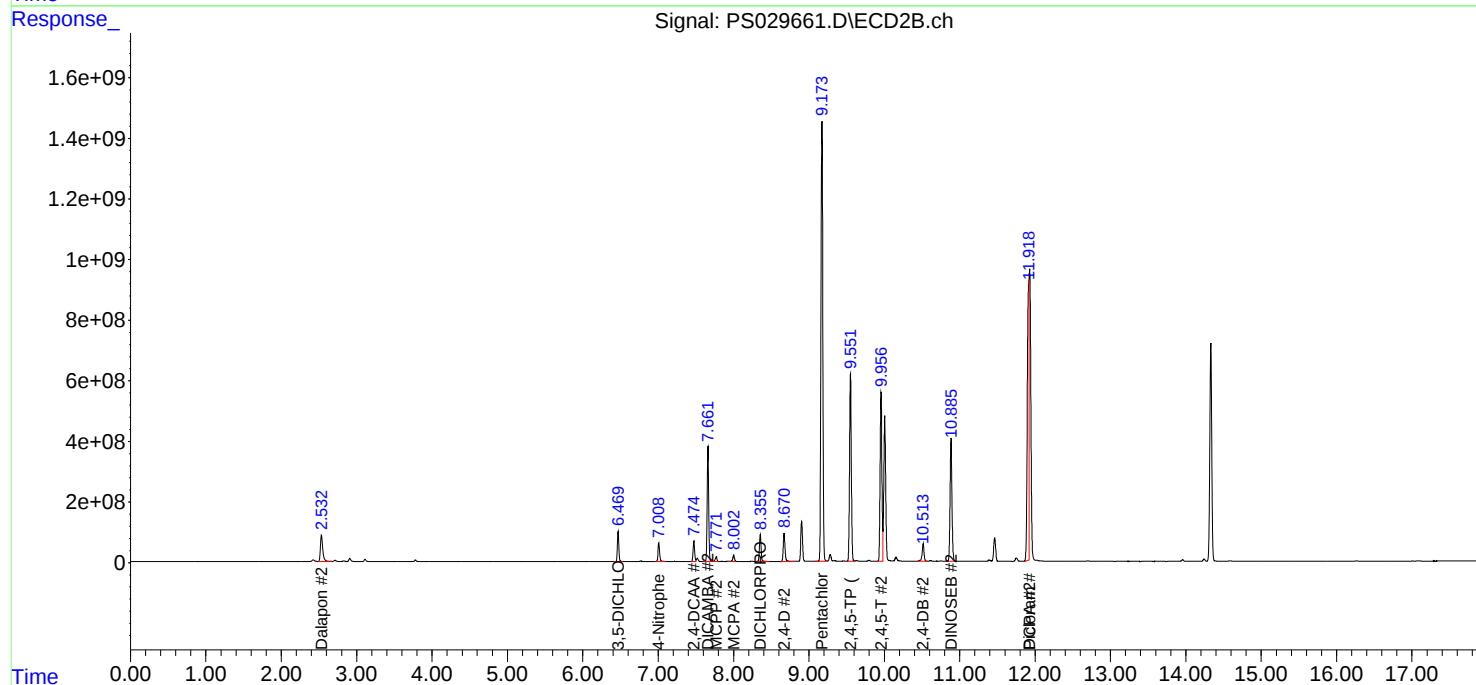
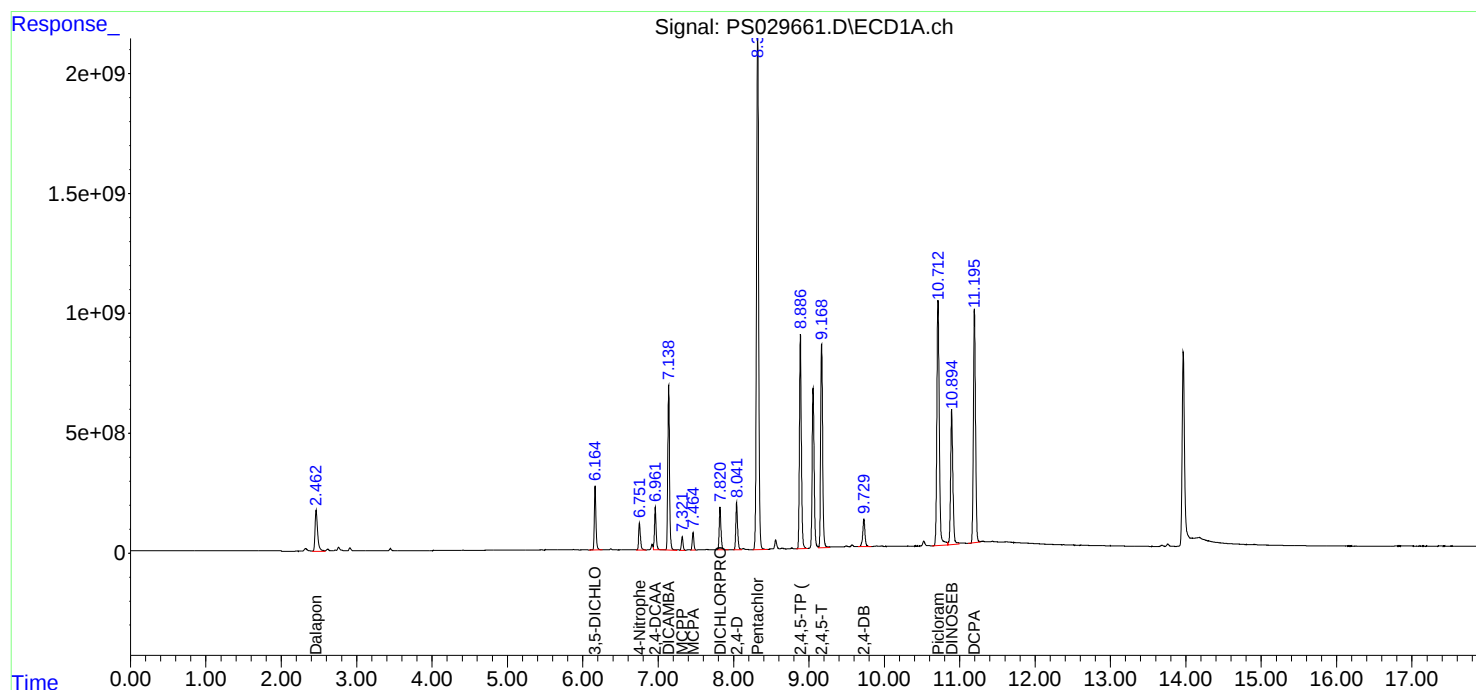
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

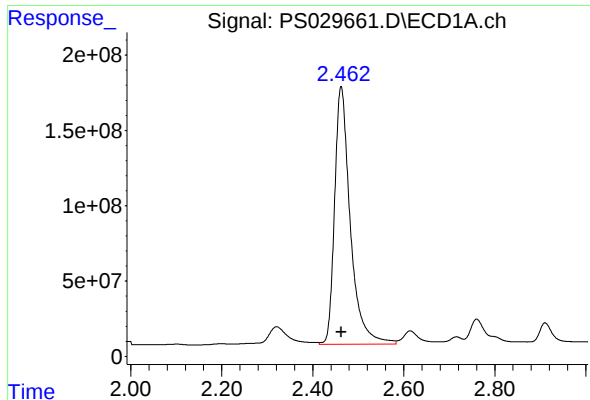
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 02 21:51:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:45:08 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





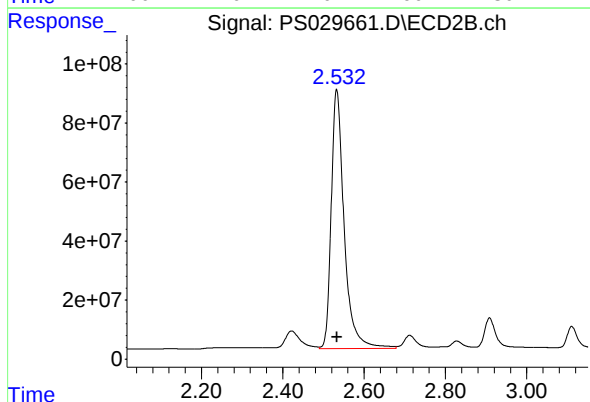
#1 Dalapon

R.T.: 2.462 min
Delta R.T.: 0.000 min
Response: 4108358980
Conc: 1258.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

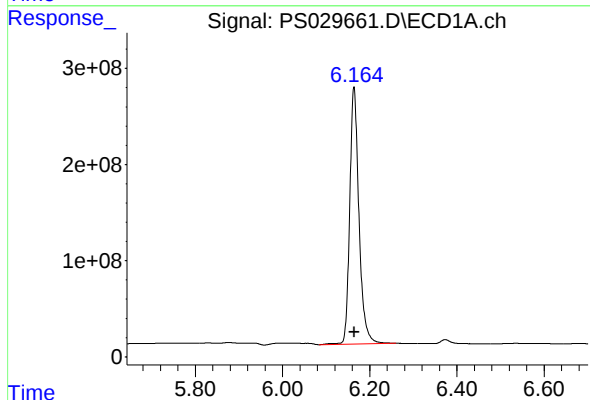
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



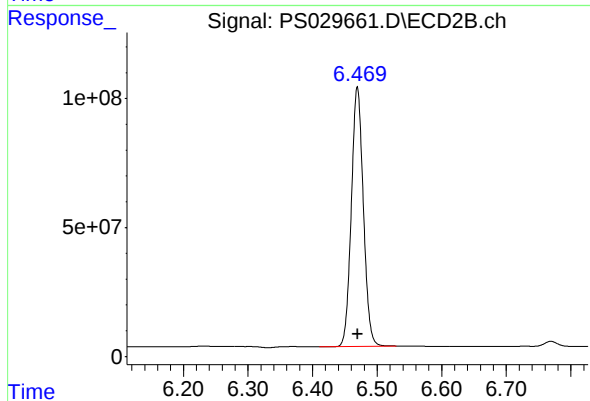
#1 Dalapon

R.T.: 2.532 min
Delta R.T.: 0.000 min
Response: 1942871242
Conc: 1266.71 ng/ml



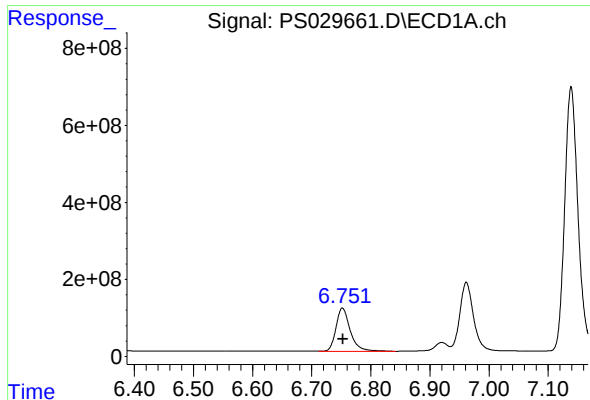
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.164 min
Delta R.T.: 0.000 min
Response: 3928433575
Conc: 1335.81 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.469 min
Delta R.T.: 0.000 min
Response: 1296248758
Conc: 1381.75 ng/ml



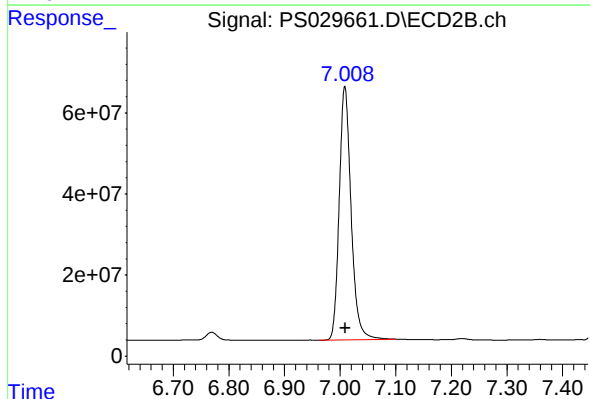
#3 4-Nitrophenol

R.T.: 6.752 min
Delta R.T.: 0.000 min
Response: 1875650660
Conc: 1377.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

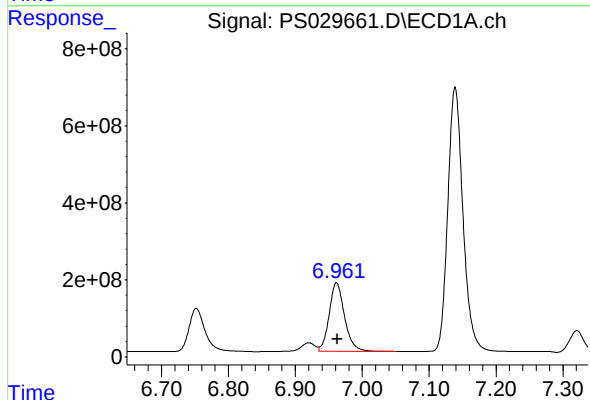
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



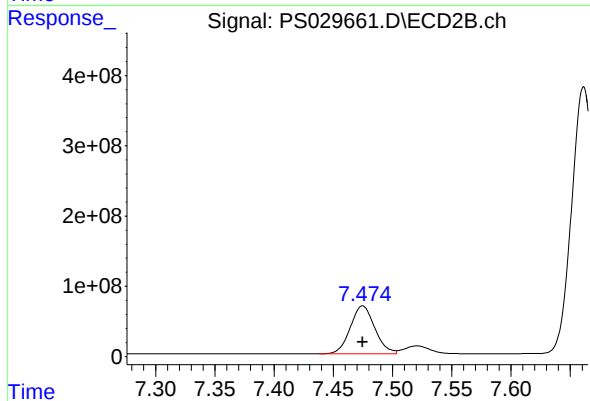
#3 4-Nitrophenol

R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 929783256
Conc: 1360.34 ng/ml



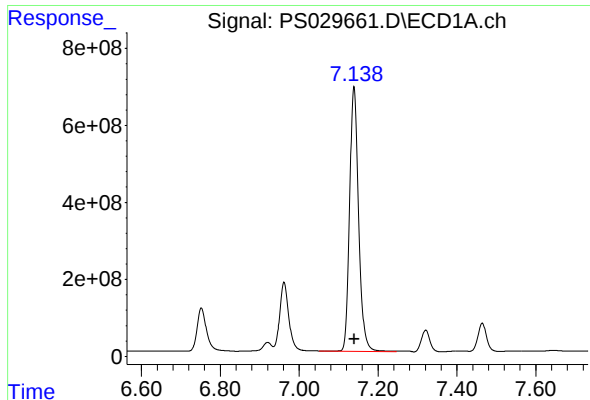
#4 2,4-DCAA

R.T.: 6.962 min
Delta R.T.: 0.000 min
Response: 2840950026
Conc: 1435.30 ng/ml



#4 2,4-DCAA

R.T.: 7.475 min
Delta R.T.: 0.000 min
Response: 981839106
Conc: 1487.41 ng/ml



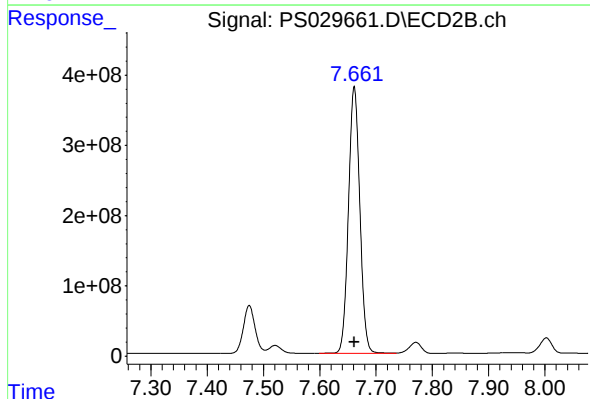
#5 DICAMBA

R.T.: 7.139 min
Delta R.T.: 0.000 min
Response: 10886487221
Conc: 1314.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

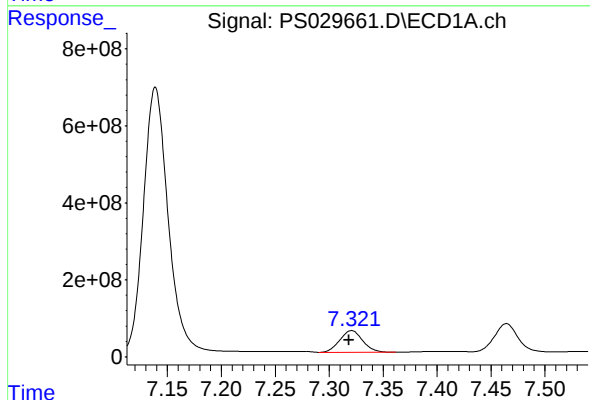
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



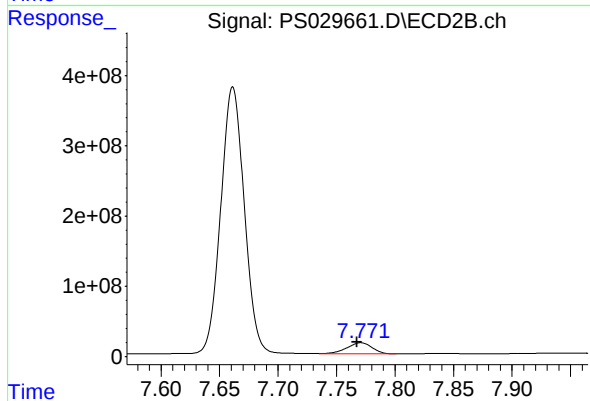
#5 DICAMBA

R.T.: 7.661 min
Delta R.T.: 0.000 min
Response: 5336929441
Conc: 1461.27 ng/ml



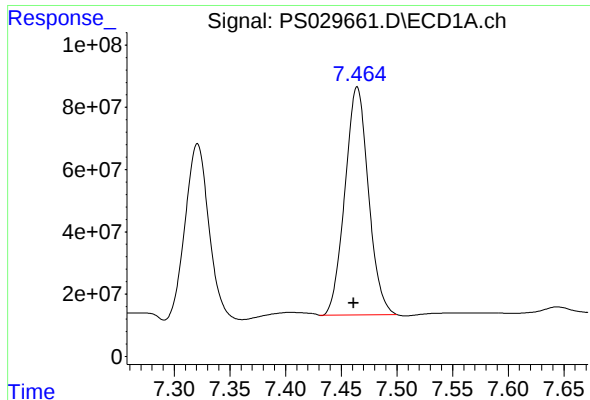
#6 MCPP

R.T.: 7.321 min
Delta R.T.: 0.003 min
Response: 837102081
Conc: 152.00 ug/ml



#6 MCPP

R.T.: 7.771 min
Delta R.T.: 0.003 min
Response: 239877882
Conc: 136.98 ug/ml



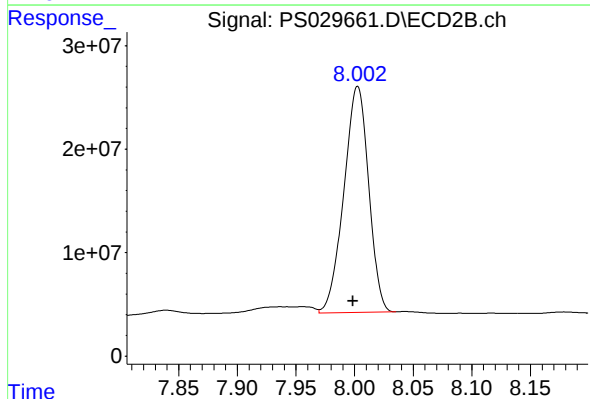
#7 MCPA

R.T.: 7.464 min
Delta R.T.: 0.003 min
Response: 1077350418
Conc: 146.01 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

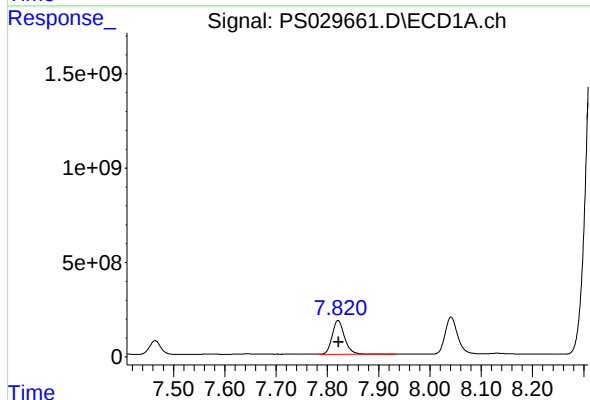
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



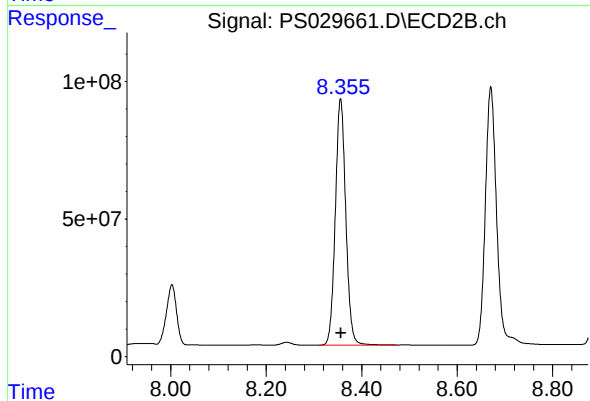
#7 MCPA

R.T.: 8.003 min
Delta R.T.: 0.004 min
Response: 321610430
Conc: 141.54 ug/ml



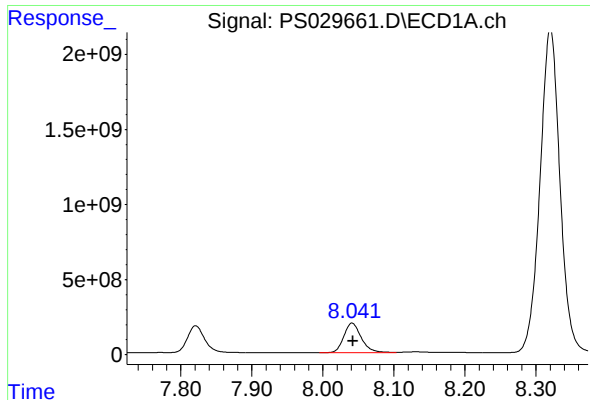
#8 DICHLORPROP

R.T.: 7.821 min
Delta R.T.: -0.001 min
Response: 2998787481
Conc: 1449.94 ng/ml



#8 DICHLORPROP

R.T.: 8.356 min
Delta R.T.: 0.000 min
Response: 1358996852
Conc: 1501.55 ng/ml



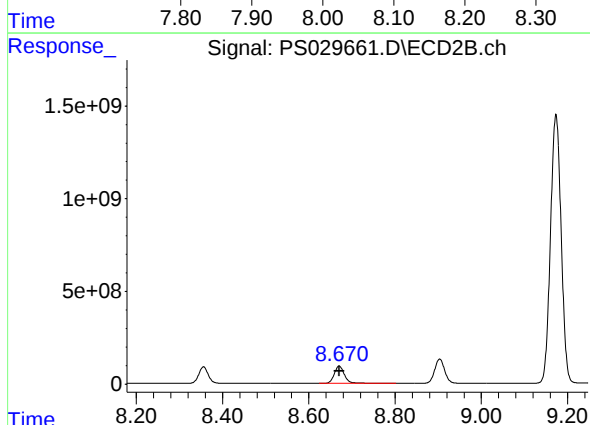
#9 2,4-D

R.T.: 8.041 min
Delta R.T.: -0.001 min
Response: 3352707918
Conc: 1478.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

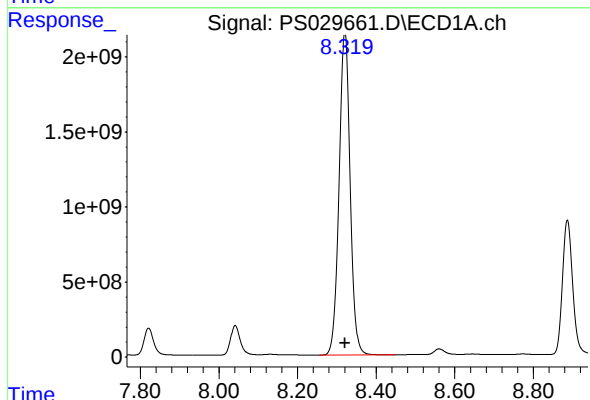
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



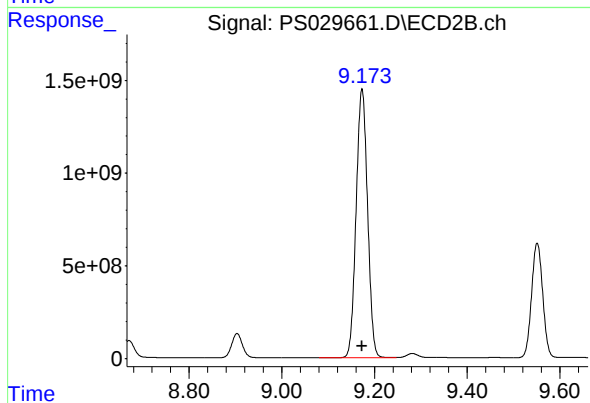
#9 2,4-D

R.T.: 8.670 min
Delta R.T.: 0.000 min
Response: 1534428295
Conc: 1529.80 ng/ml



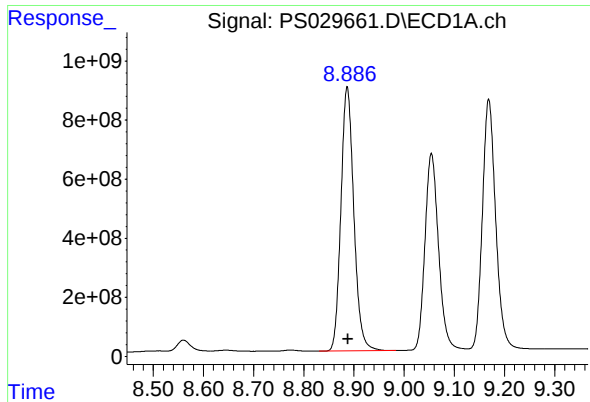
#10 Pentachlorophenol

R.T.: 8.320 min
Delta R.T.: 0.000 min
Response: 41860303298
Conc: 1439.85 ng/ml



#10 Pentachlorophenol

R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 24798795122
Conc: 1399.48 ng/ml



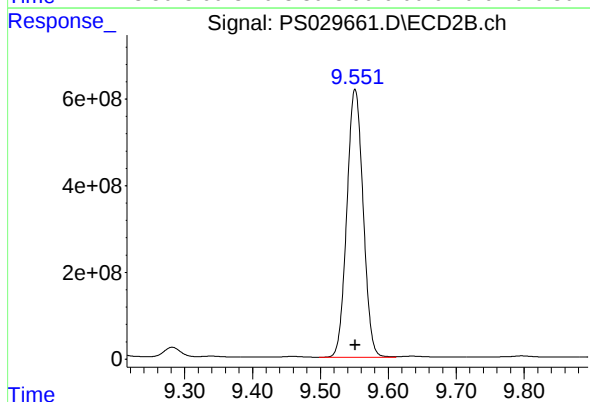
#11 2,4,5-TP (SILVEX)

R.T.: 8.887 min
Delta R.T.: -0.001 min
Response: 15973508319
Conc: 1411.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

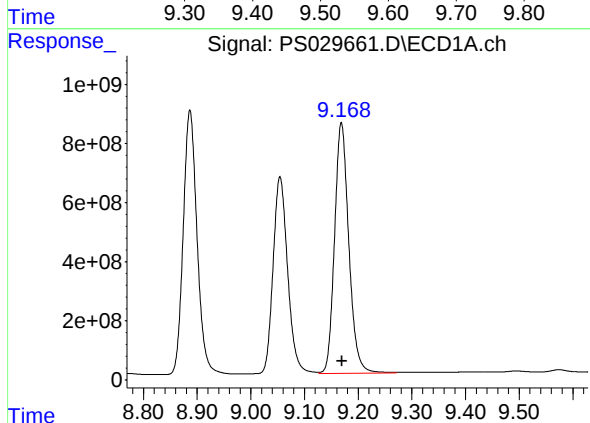
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



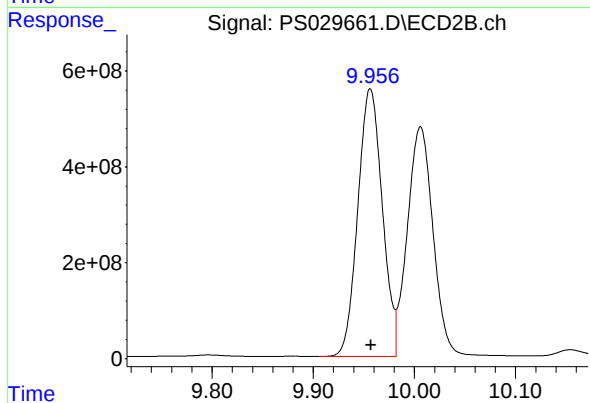
#11 2,4,5-TP (SILVEX)

R.T.: 9.551 min
Delta R.T.: 0.000 min
Response: 10314285572
Conc: 1461.70 ng/ml



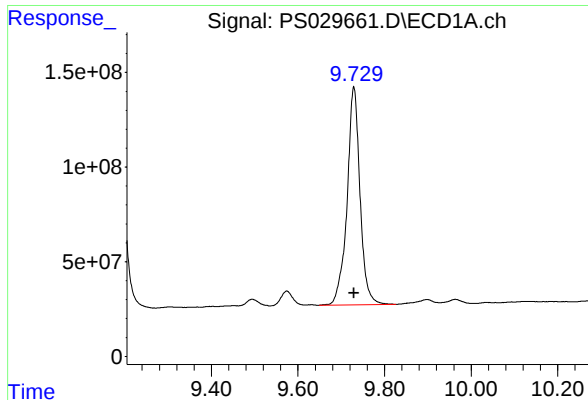
#12 2,4,5-T

R.T.: 9.169 min
Delta R.T.: -0.001 min
Response: 15670680767
Conc: 1384.71 ng/ml



#12 2,4,5-T

R.T.: 9.956 min
Delta R.T.: 0.000 min
Response: 9380678174
Conc: 1419.44 ng/ml



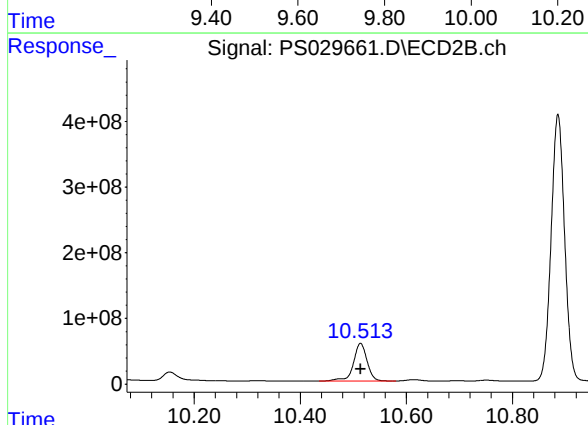
#13 2,4-DB

R.T.: 9.729 min
Delta R.T.: 0.000 min
Response: 2397133404
Conc: 1276.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

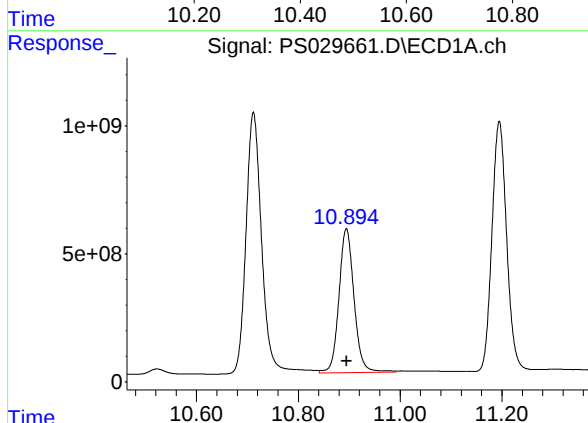
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



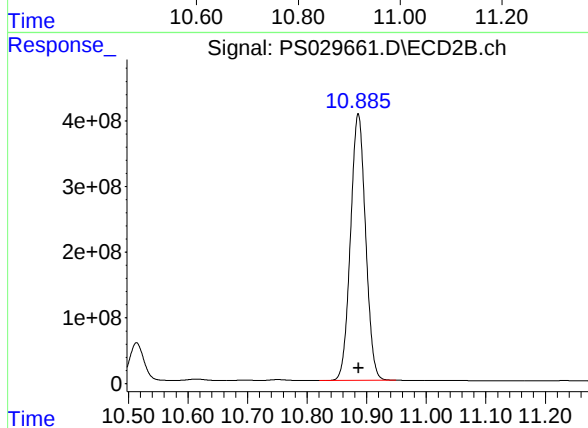
#13 2,4-DB

R.T.: 10.514 min
Delta R.T.: 0.000 min
Response: 1045195523
Conc: 1461.83 ng/ml



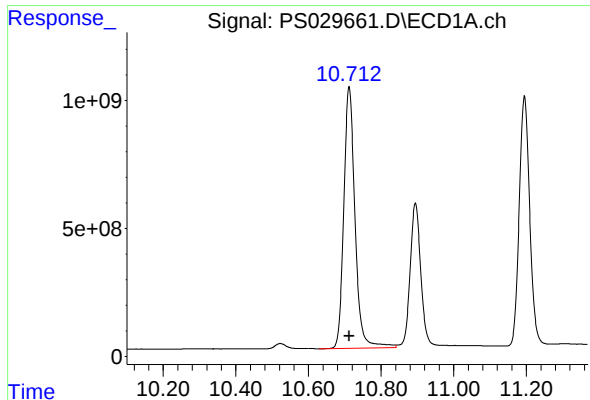
#14 DINOSEB

R.T.: 10.894 min
Delta R.T.: 0.000 min
Response: 11584240374
Conc: 1396.49 ng/ml



#14 DINOSEB

R.T.: 10.886 min
Delta R.T.: 0.000 min
Response: 7136024947
Conc: 1440.99 ng/ml



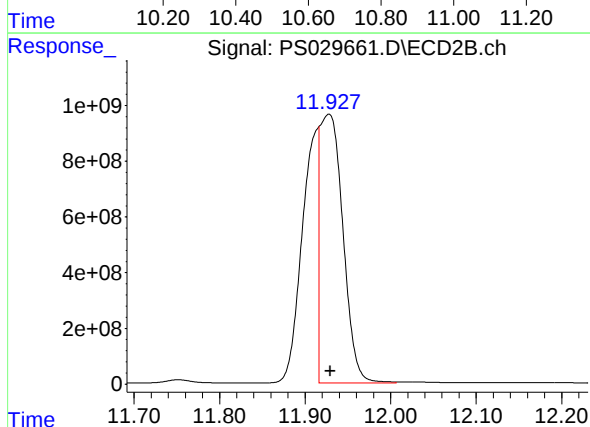
#15 Picloram

R.T.: 10.712 min
Delta R.T.: -0.001 min
Response: 21908246614
Conc: 1442.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

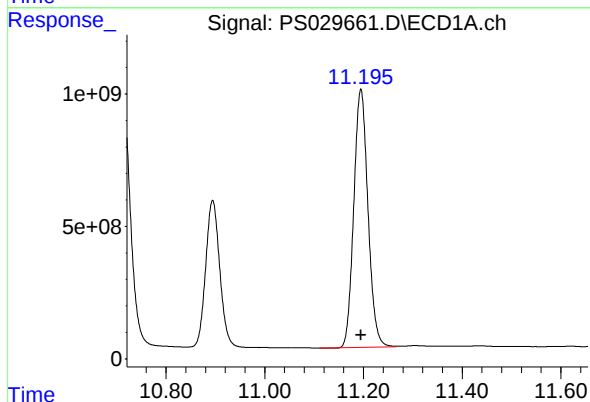
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



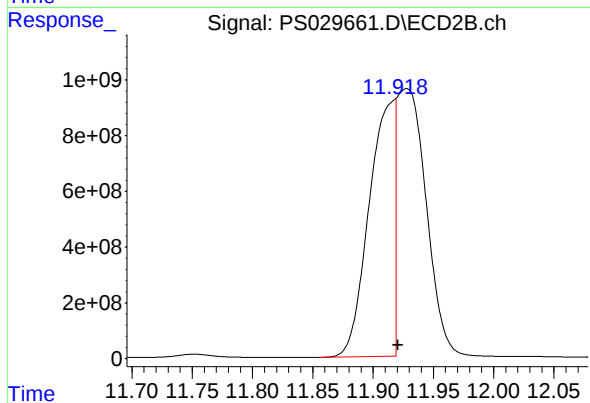
#15 Picloram

R.T.: 11.927 min
Delta R.T.: -0.002 min
Response: 17647184452
Conc: 1591.73 ng/ml m



#16 DCPA

R.T.: 11.195 min
Delta R.T.: 0.000 min
Response: 19405207559
Conc: 1409.14 ng/ml



#16 DCPA

R.T.: 11.918 min
Delta R.T.: -0.002 min
Response: 13389723415
Conc: 1332.29 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
 Data File : PS029662.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 02 Apr 2025 21:32
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS040225

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 04/03/2025
 Supervised By : mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 02 22:04:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 21:58:31 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

System Monitoring Compounds							
4) S	2,4-DCAA	6.962	7.474	1498.3E6	503.3E6	734.900	738.464
Target Compounds							
1) T	Dalapon	2.462	2.533	2190.2E6	1024.0E6	645.618	645.003
2) T	3,5-DICHL...	6.164	6.469	2082.1E6	662.8E6	692.238	686.463
3) T	4-Nitroph...	6.752	7.009	957.2E6	475.6E6	681.345	670.774
5) T	DICAMBA	7.138	7.661	5694.1E6	2612.2E6	684.231	707.267
6) T	MCP	7.317	7.767	392.2E6	118.2E6	72.358	70.010
7) T	MCPA	7.460	7.998	518.2E6	157.7E6	71.284	69.331
8) T	DICHLORPROP	7.820	8.356	1603.0E6	696.5E6	728.820	720.851
9) T	2,4-D	8.041	8.670	1760.6E6	789.5E6	730.675	732.044
10) T	Pentachlo...	8.319	9.173	22517.6E6	12981.3E6	740.590	724.092
11) T	2,4,5-TP ...	8.886	9.551	8387.3E6	5243.7E6	722.086	726.984
12) T	2,4,5-T	9.168	9.956	8196.2E6	4791.7E6	712.435	714.872
13) T	2,4-DB	9.728	10.513	1209.9E6	524.8E6	665.952	707.282
14) T	DINOSEB	10.894	10.886	5970.8E6	3628.9E6	707.265	709.775
15) T	Picloram	10.711	11.928	11195.9E6	9179.9E6	722.295	783.175m
16) T	DCPA	11.194	11.916	10250.4E6	6152.8E6	733.951	667.456m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029662.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 21:32
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 14 Sample Multiplier: 1

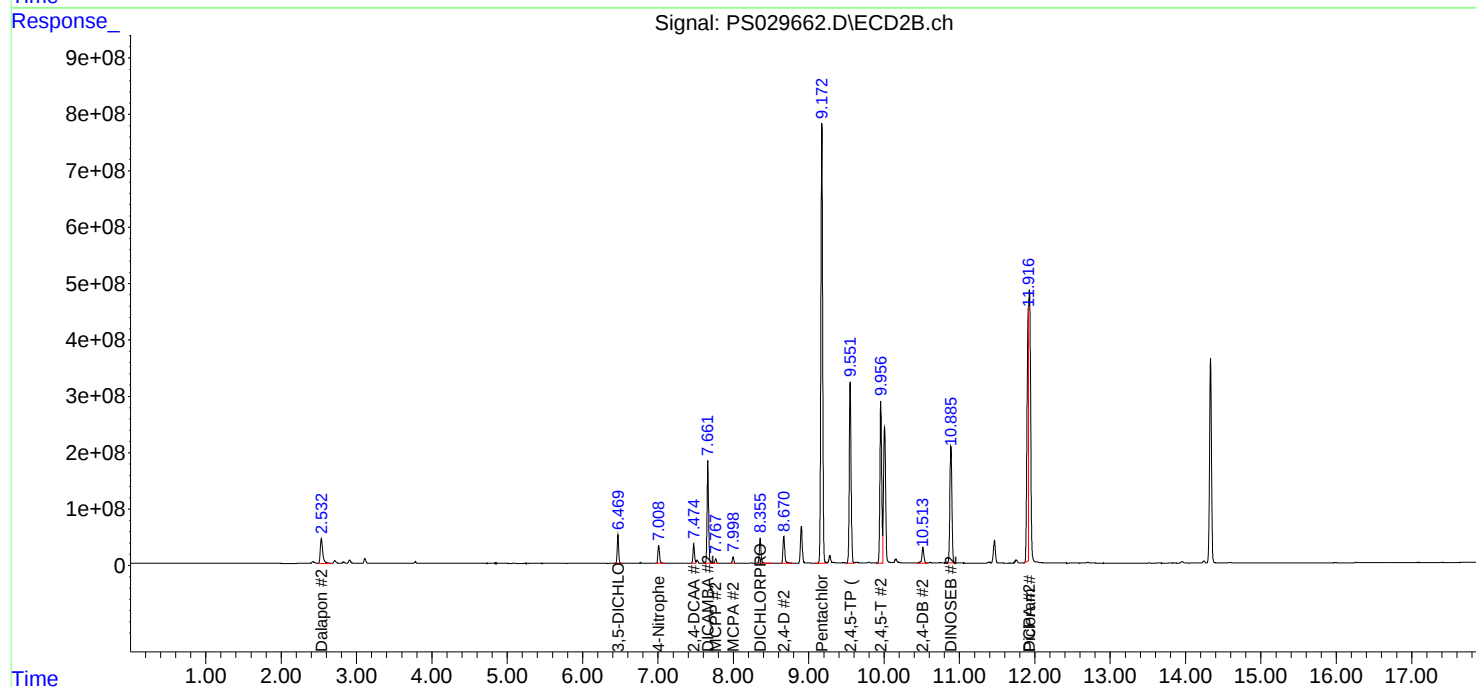
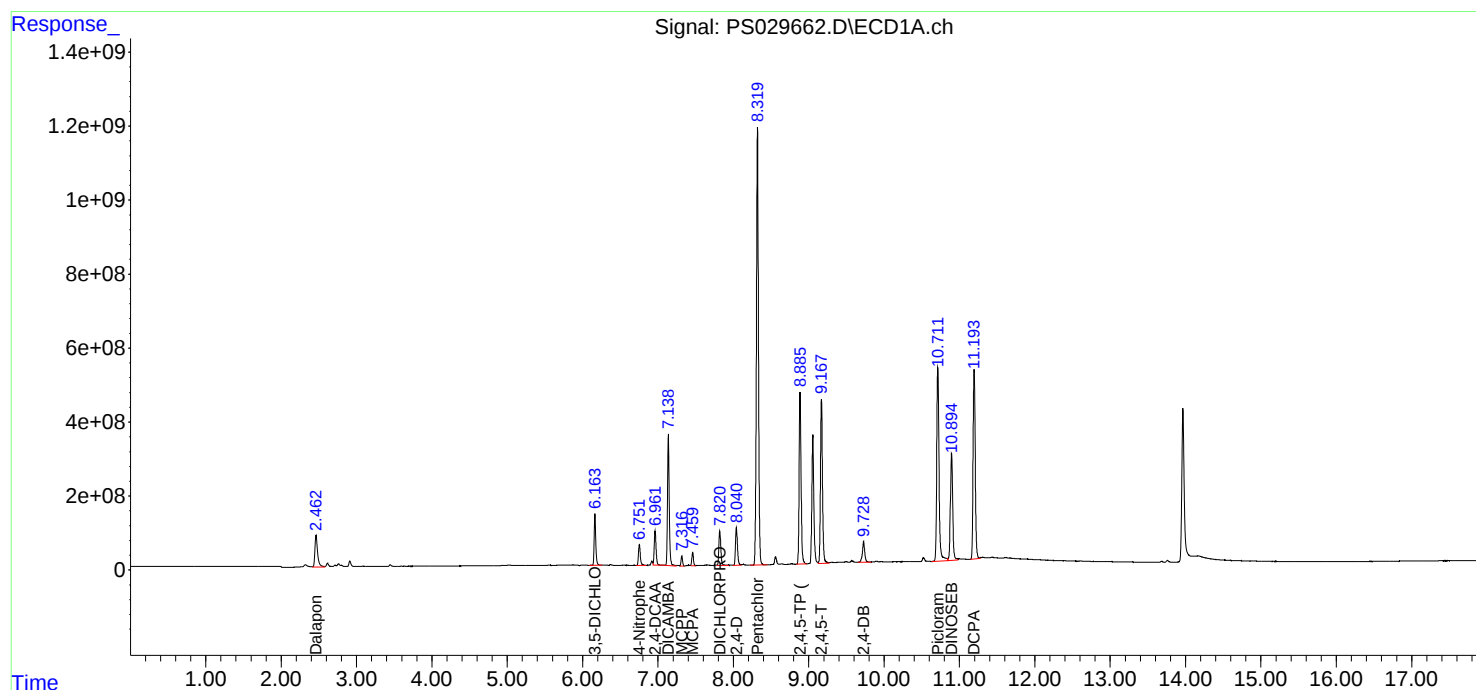
Instrument :
ECD_S
ClientSampleId :
ICVPS040225

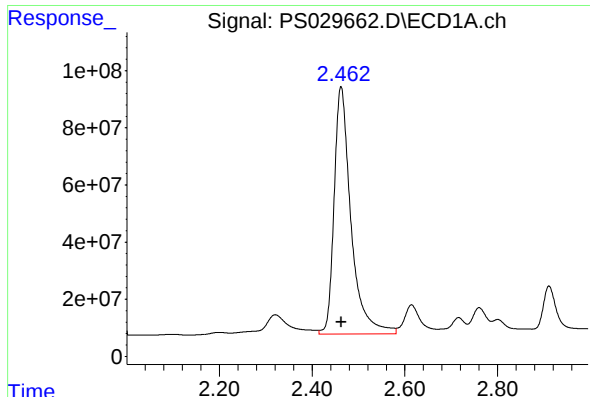
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/03/2025
Supervised By : mohammad ahmed 04/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 02 22:04:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:58:31 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





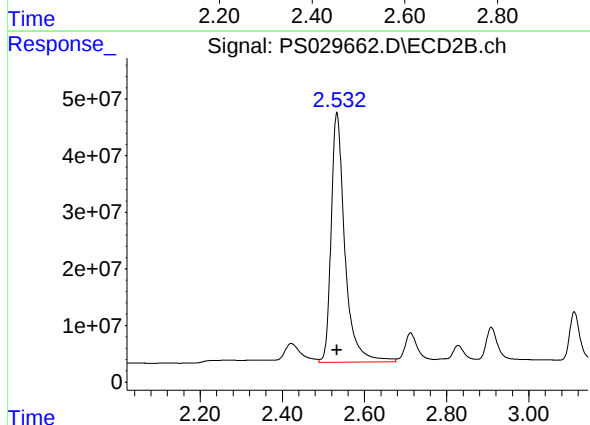
#1 Dalapon

R.T.: 2.462 min
Delta R.T.: 0.000 min
Response: 2190191506
Conc: 645.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

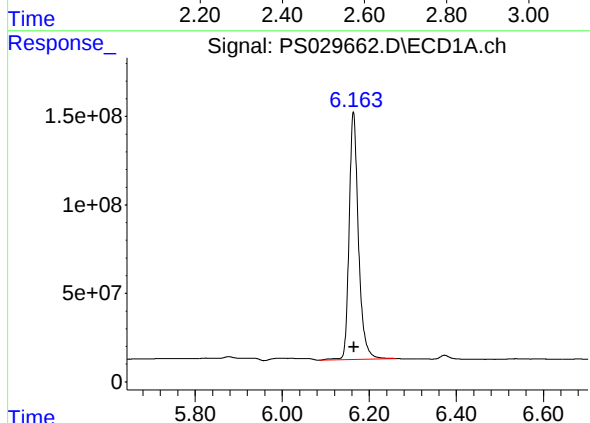
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



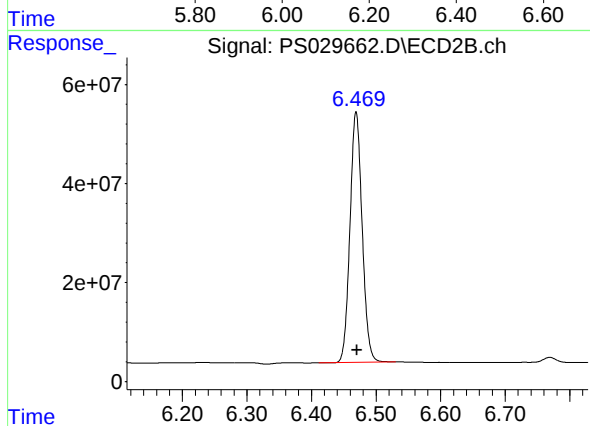
#1 Dalapon

R.T.: 2.533 min
Delta R.T.: 0.000 min
Response: 1024004548
Conc: 645.00 ng/ml



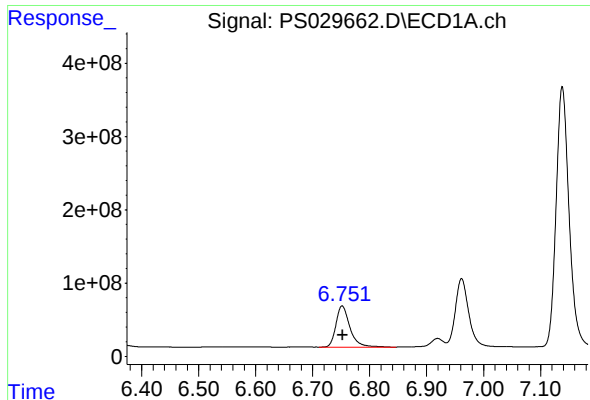
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.164 min
Delta R.T.: -0.001 min
Response: 2082084613
Conc: 692.24 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.469 min
Delta R.T.: -0.001 min
Response: 662818833
Conc: 686.46 ng/ml



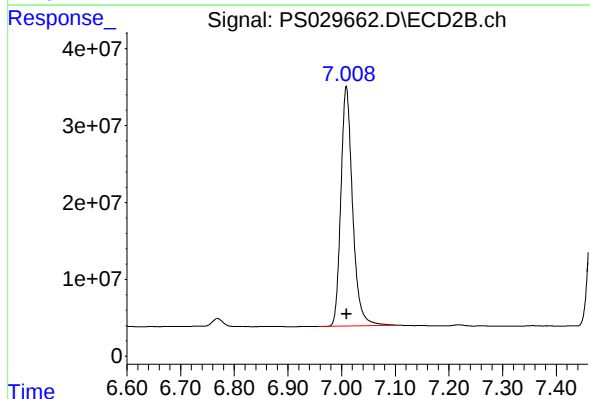
#3 4-Nitrophenol

R.T.: 6.752 min
Delta R.T.: -0.001 min
Response: 957152195
Conc: 681.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

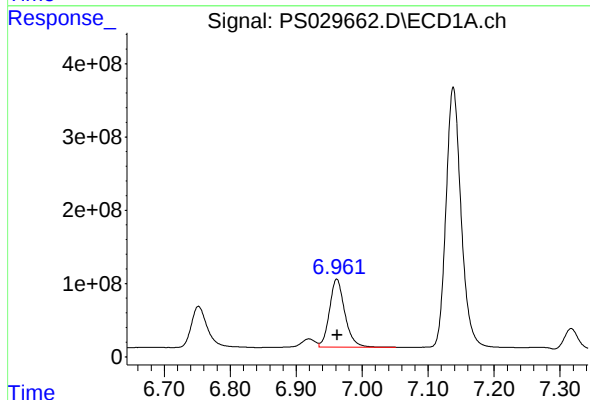
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



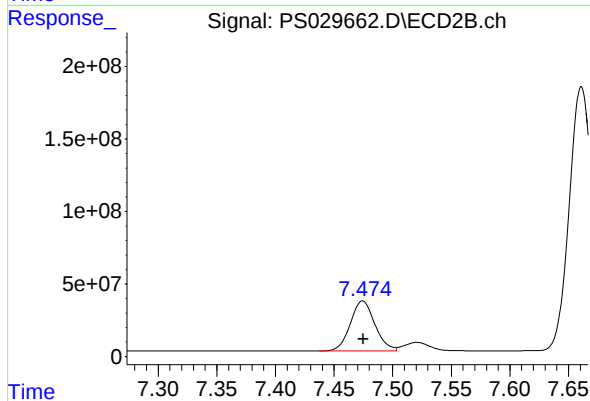
#3 4-Nitrophenol

R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 475577336
Conc: 670.77 ng/ml



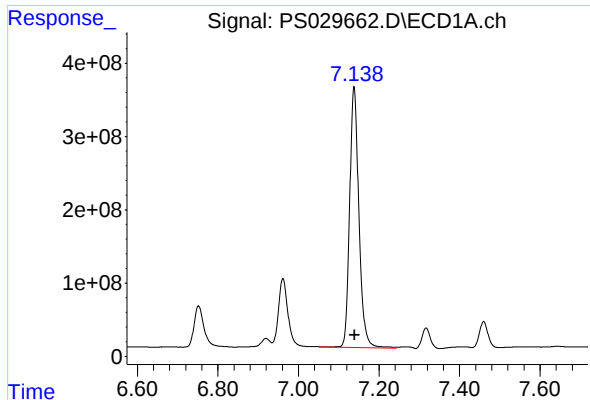
#4 2,4-DCAA

R.T.: 6.962 min
Delta R.T.: -0.001 min
Response: 1498336160
Conc: 734.90 ng/ml



#4 2,4-DCAA

R.T.: 7.474 min
Delta R.T.: 0.000 min
Response: 503272874
Conc: 738.46 ng/ml



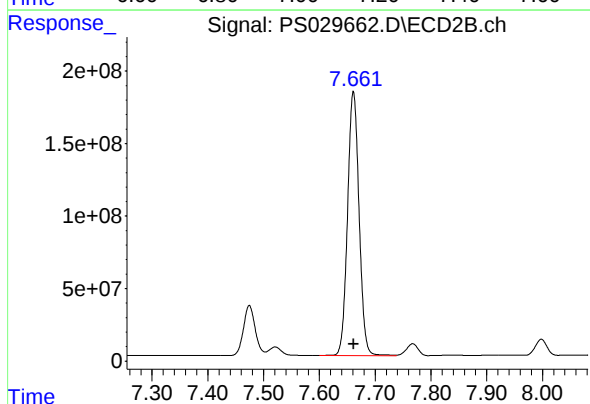
#5 DICAMBA

R.T.: 7.138 min
Delta R.T.: -0.002 min
Response: 5694131009
Conc: 684.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

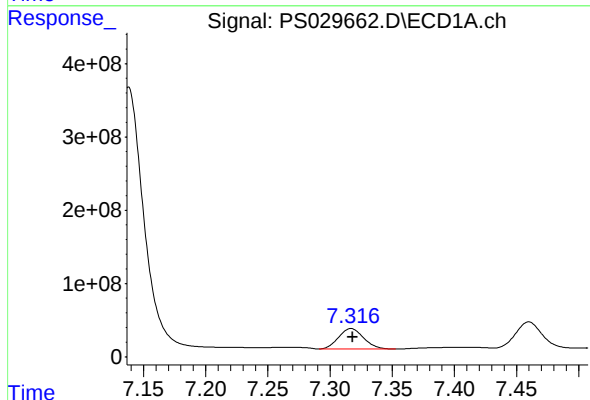
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



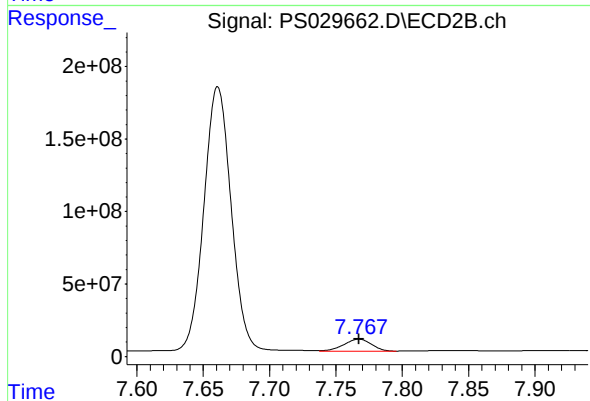
#5 DICAMBA

R.T.: 7.661 min
Delta R.T.: 0.000 min
Response: 2612199541
Conc: 707.27 ng/ml



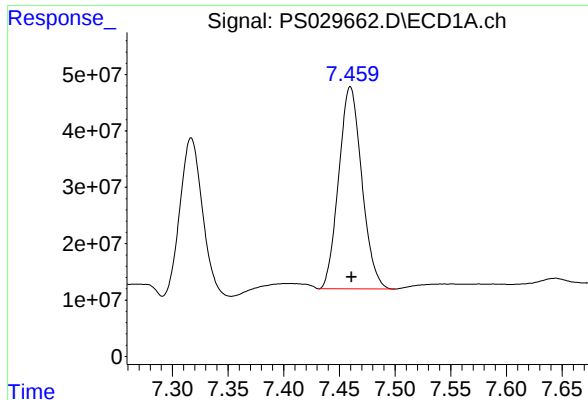
#6 MCP

R.T.: 7.317 min
Delta R.T.: -0.001 min
Response: 392172325
Conc: 72.36 ug/ml



#6 MCP

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 118210914
Conc: 70.01 ug/ml



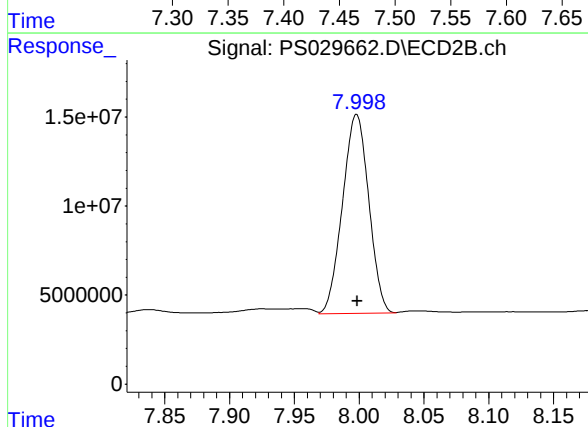
#7 MCPA

R.T.: 7.460 min
Delta R.T.: -0.001 min
Response: 518166545
Conc: 71.28 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

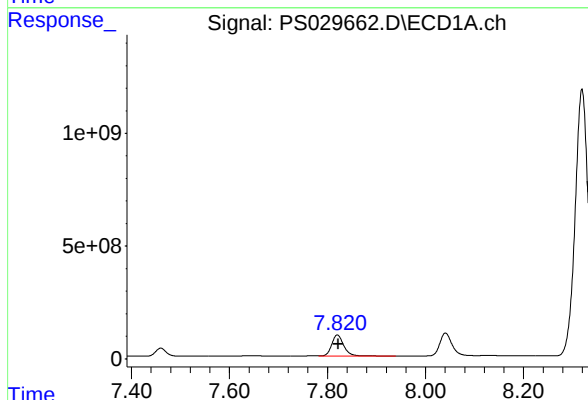
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



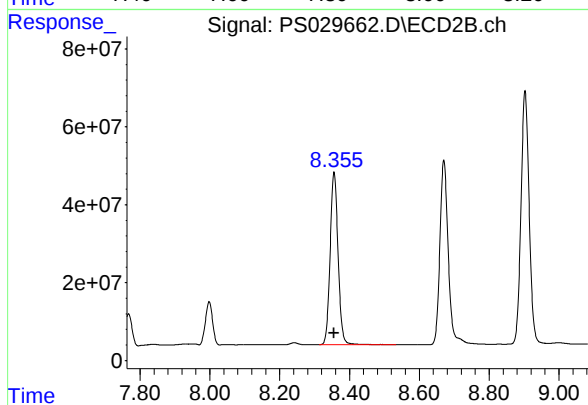
#7 MCPA

R.T.: 7.998 min
Delta R.T.: 0.000 min
Response: 157745338
Conc: 69.33 ug/ml



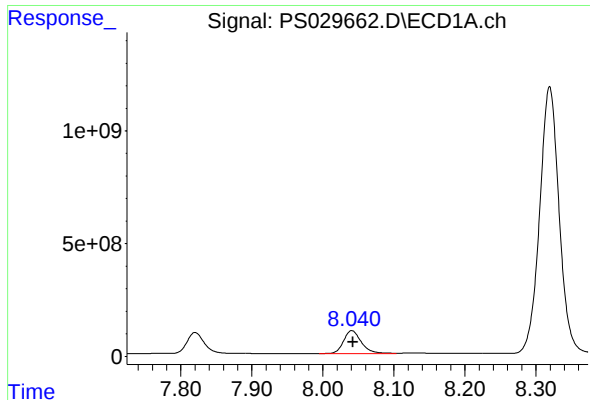
#8 DICHLORPROP

R.T.: 7.820 min
Delta R.T.: -0.002 min
Response: 1602994513
Conc: 728.82 ng/ml



#8 DICHLORPROP

R.T.: 8.356 min
Delta R.T.: 0.000 min
Response: 696452307
Conc: 720.85 ng/ml



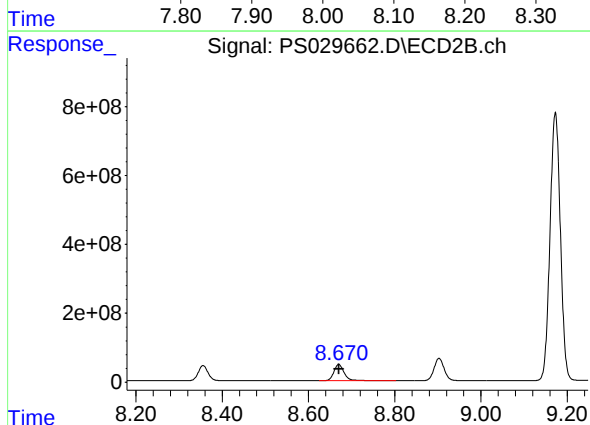
#9 2,4-D

R.T.: 8.041 min
Delta R.T.: -0.001 min
Response: 1760626420
Conc: 730.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

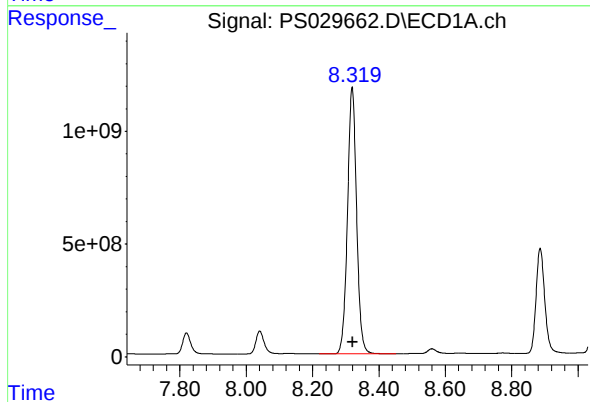
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



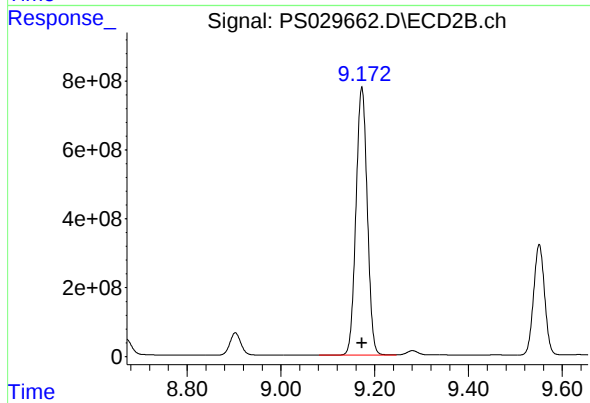
#9 2,4-D

R.T.: 8.670 min
Delta R.T.: 0.000 min
Response: 789483756
Conc: 732.04 ng/ml



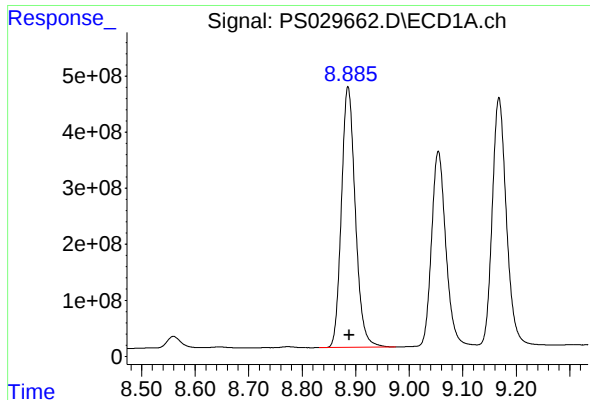
#10 Pentachlorophenol

R.T.: 8.319 min
Delta R.T.: -0.001 min
Response: 22517626662
Conc: 740.59 ng/ml



#10 Pentachlorophenol

R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 12981310805
Conc: 724.09 ng/ml



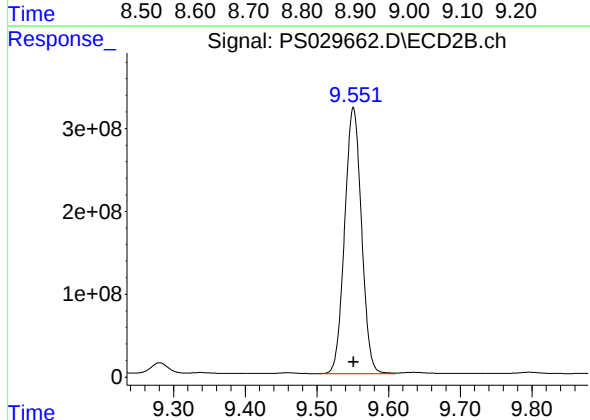
#11 2,4,5-TP (SILVEX)

R.T.: 8.886 min
Delta R.T.: -0.002 min
Response: 8387280951
Conc: 722.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

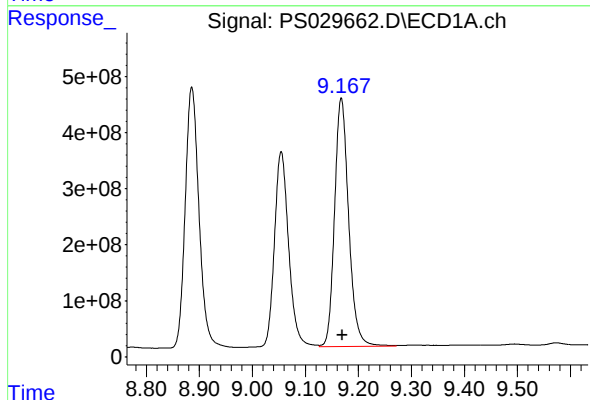
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



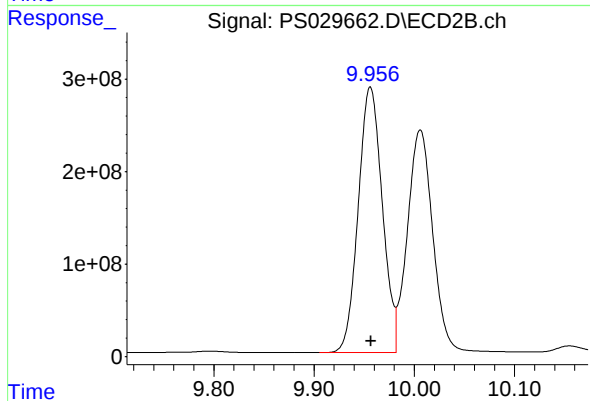
#11 2,4,5-TP (SILVEX)

R.T.: 9.551 min
Delta R.T.: 0.000 min
Response: 5243705599
Conc: 726.98 ng/ml



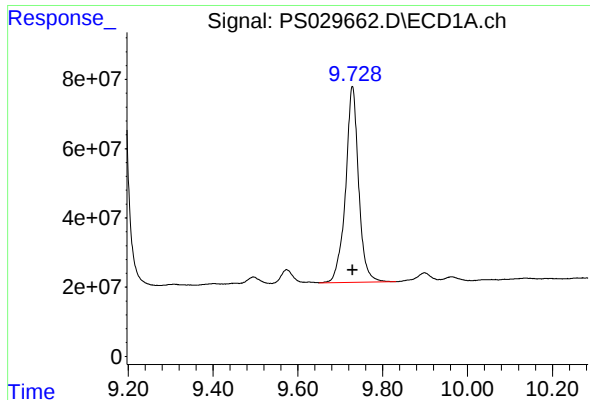
#12 2,4,5-T

R.T.: 9.168 min
Delta R.T.: -0.002 min
Response: 8196155687
Conc: 712.43 ng/ml



#12 2,4,5-T

R.T.: 9.956 min
Delta R.T.: 0.000 min
Response: 4791671449
Conc: 714.87 ng/ml



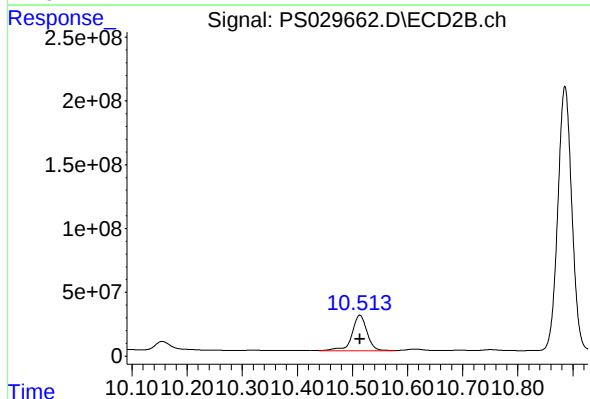
#13 2,4-DB

R.T.: 9.728 min
Delta R.T.: -0.001 min
Response: 1209865167
Conc: 665.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

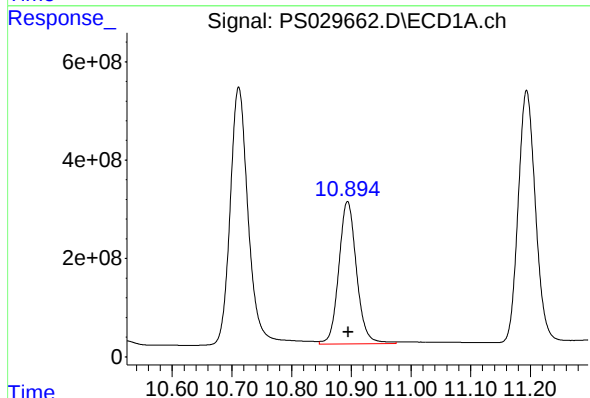
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



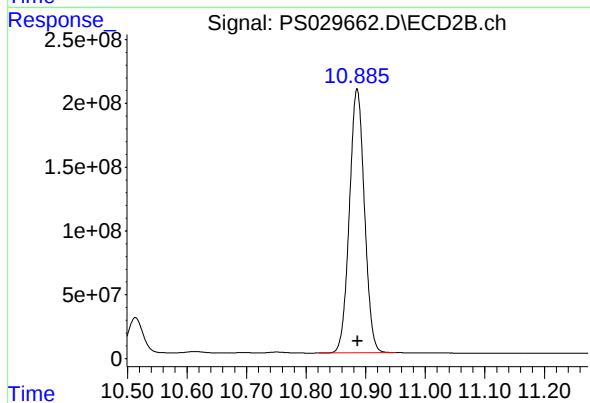
#13 2,4-DB

R.T.: 10.513 min
Delta R.T.: 0.000 min
Response: 524785986
Conc: 707.28 ng/ml



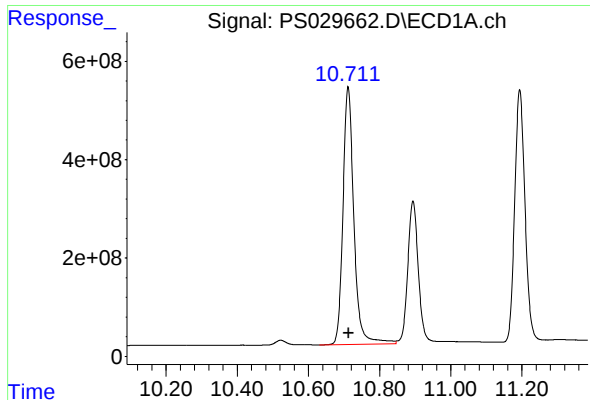
#14 DINOSEB

R.T.: 10.894 min
Delta R.T.: -0.001 min
Response: 5970759942
Conc: 707.26 ng/ml



#14 DINOSEB

R.T.: 10.886 min
Delta R.T.: -0.001 min
Response: 3628936908
Conc: 709.77 ng/ml



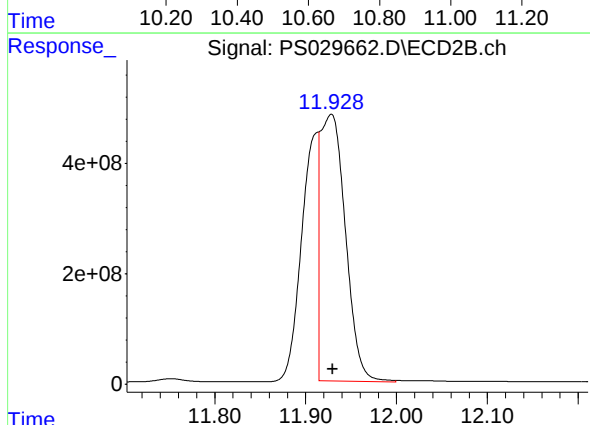
#15 Picloram

R.T.: 10.711 min
Delta R.T.: -0.002 min
Response: 11195866194
Conc: 722.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS040225

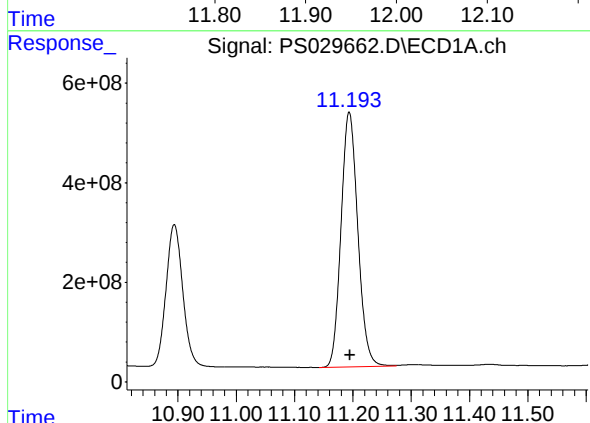
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/03/2025
Supervised By :mohammad ahmed 04/04/2025



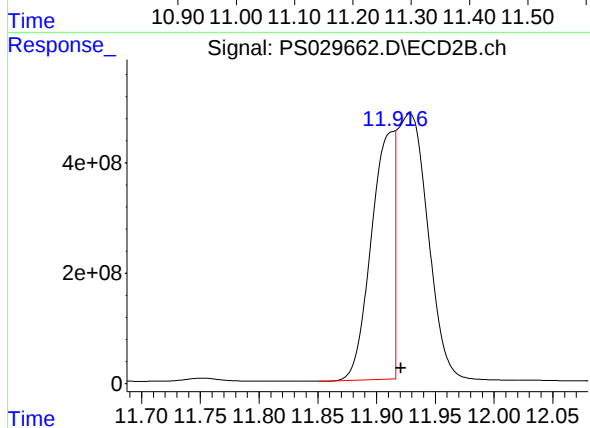
#15 Picloram

R.T.: 11.928 min
Delta R.T.: -0.001 min
Response: 9179942750
Conc: 783.18 ng/ml m



#16 DCPA

R.T.: 11.194 min
Delta R.T.: -0.002 min
Response: 10250438974
Conc: 733.95 ng/ml



#16 DCPA

R.T.: 11.916 min
Delta R.T.: -0.005 min
Response: 6152809061
Conc: 667.46 ng/ml m

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

Continuing Calib Date: 04/16/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 16:48 **Initial Calibration Time(s):** 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	6.95	6.96	6.86	7.06	0.01
2,4-D	8.03	8.04	7.94	8.14	0.01
2,4,5-TP(Silvex)	8.88	8.89	8.79	8.99	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

Continuing Calib Date: 04/16/2025 Initial Calibration Date(s): 04/02/2025 04/02/2025

Continuing Calib Time: 16:48 Initial Calibration Time(s): 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.48	7.48	7.38	7.58	0.00
2,4-D	8.67	8.67	8.57	8.77	0.00
2,4,5-TP(Silvex)	9.55	9.55	9.45	9.65	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 04/02/2025 04/02/2025

Client Sample No.: CCAL01 Date Analyzed: 04/16/2025

Lab Sample No.: HSTDCCC750 Data File : PS029823.D Time Analyzed: 16:48

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.875	8.788	8.988	773.350	712.500	8.5
2,4-D	8.031	7.942	8.142	732.850	705.000	4.0
2,4-DCAA	6.953	6.863	7.063	779.070	750.000	3.9

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/02/2025 04/02/2025

Client Sample No.: CCAL01 Date Analyzed: 04/16/2025

Lab Sample No.: HSTDCCC750 Data File : PS029823.D Time Analyzed: 16:48

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.553	9.451	9.651	756.220	712.500	6.1
2,4-D	8.672	8.571	8.771	686.520	705.000	-2.6
2,4-DCAA	7.476	7.375	7.575	736.660	750.000	-1.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
 Data File : PS029823.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 16:48
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 04/17/2025
 Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:20:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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

System Monitoring Compounds							
4) S	2,4-DCAA	6.953	7.476	1588.4E6	502.0E6	779.069	736.661
Target Compounds							
1) T	Dalapon	2.455	2.531	2550.3E6	1097.2E6	751.760	691.087
2) T	3,5-DICHL...	6.156	6.471	2281.3E6	648.9E6	758.464	672.024
3) T	4-Nitroph...	6.744	7.010	1049.9E6	481.5E6	747.385	679.085
5) T	DICAMBA	7.130	7.663	6393.2E6	2656.5E6	768.234	719.263
6) T	MCP	7.308	7.769	408.2E6	115.8E6	75.323	68.597
7) T	MCPA	7.450	8.000	543.3E6	150.5E6	74.745m	66.162
8) T	DICHLORPROP	7.810	8.357	1576.3E6	667.7E6	716.702	691.080
9) T	2,4-D	8.031	8.672	1765.9E6	740.4E6	732.852	686.520
10) T	Pentachlo...	8.310	9.174	22709.9E6	13696.3E6	746.914	763.975
11) T	2,4,5-TP ...	8.875	9.553	8982.8E6	5454.6E6	773.354	756.221
12) T	2,4,5-T	9.157	9.959	9070.4E6	5106.4E6	788.424	761.825
13) T	2,4-DB	9.716	10.518	1486.7E6	511.9E6	818.330m	689.922m
14) T	DINOSEB	10.882	10.892	6515.3E6	3745.3E6	771.763	732.533
15) T	Picloram	10.700	11.935	11834.0E6	9125.5E6	763.463	771.754m
16) T	DCPA	11.182	11.930	11109.4E6	7294.4E6	795.454	824.169m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029823.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 16:48
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

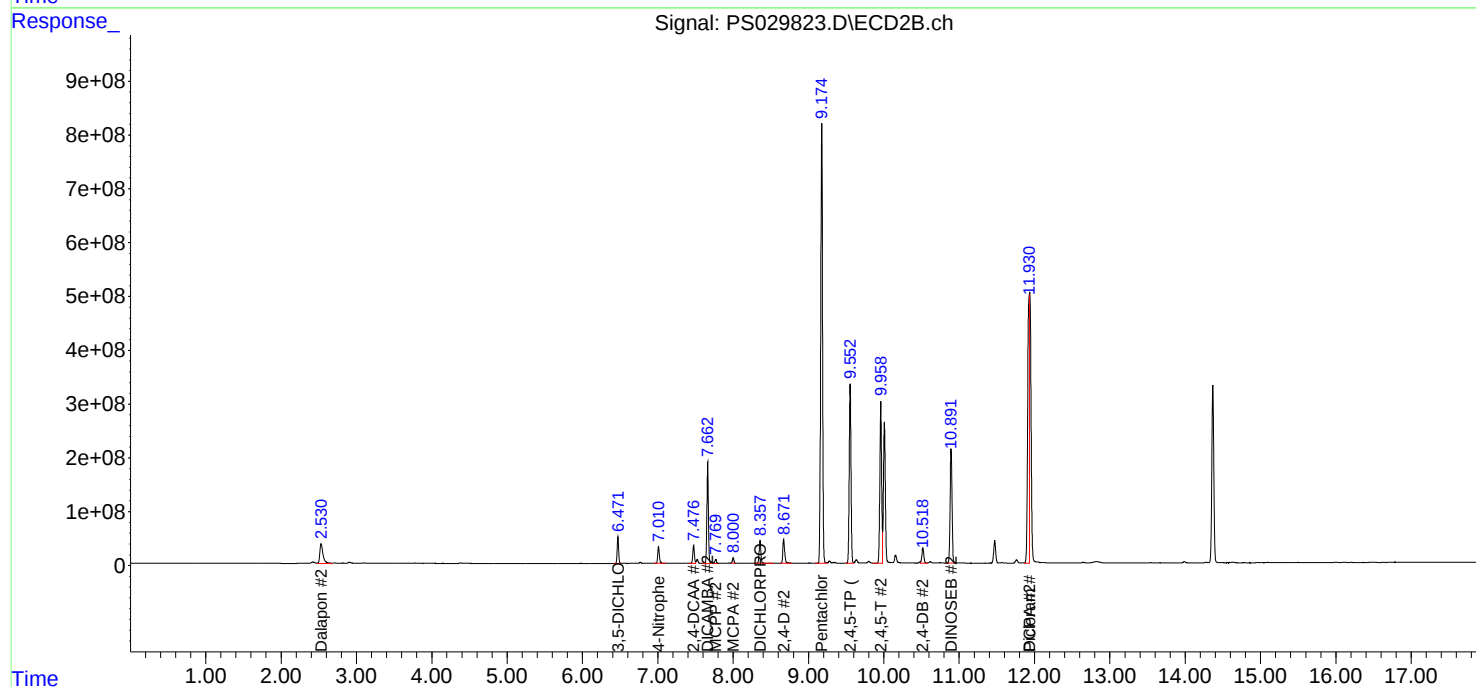
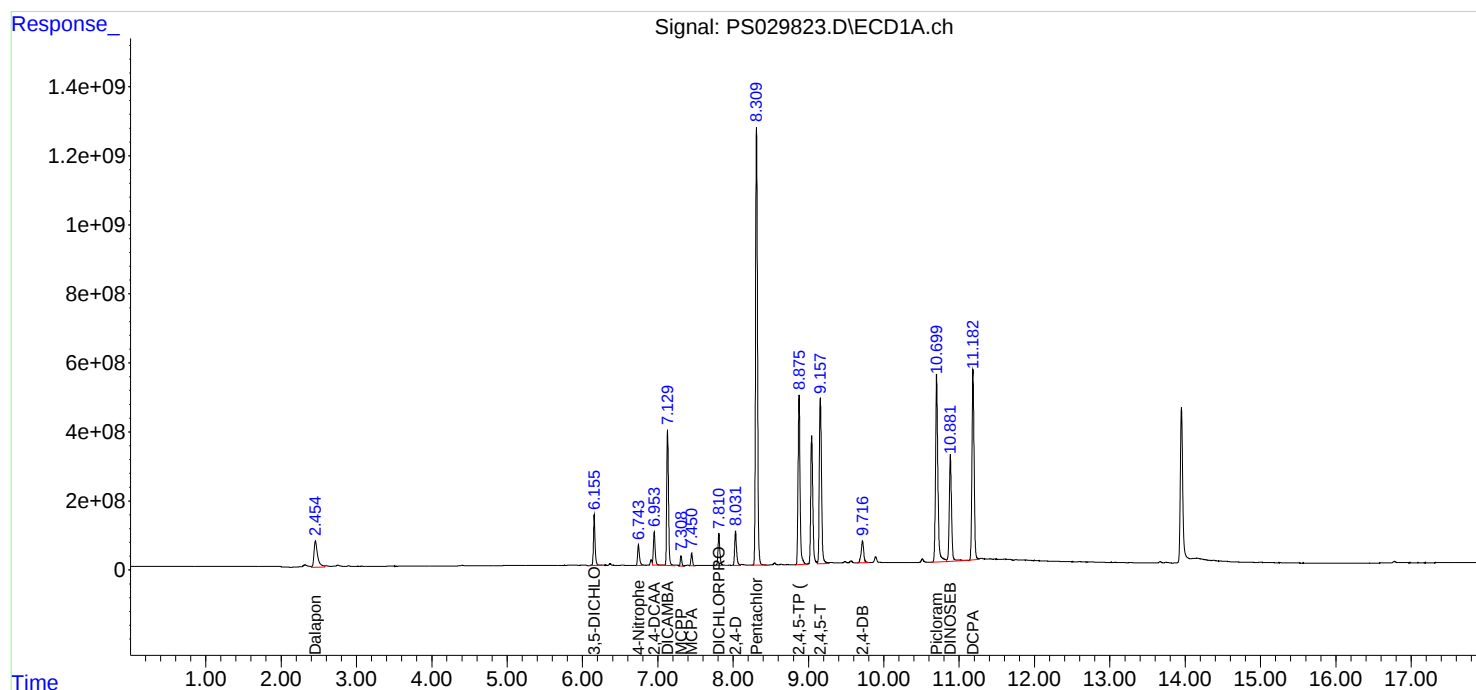
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

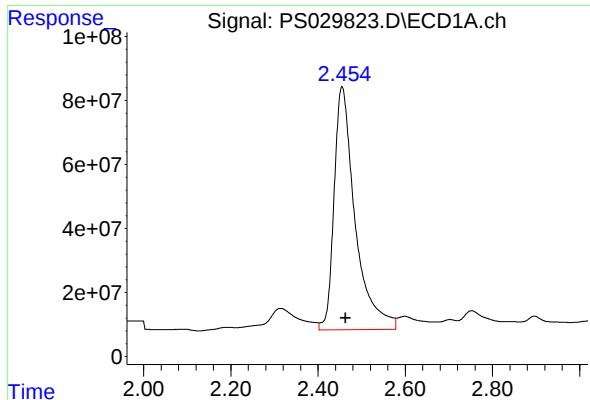
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:20:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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





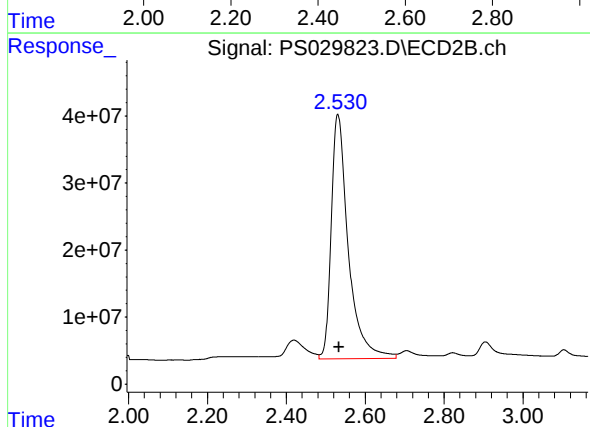
#1 Dalapon

R.T.: 2.455 min
Delta R.T.: -0.008 min
Response: 2550268815
Conc: 751.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

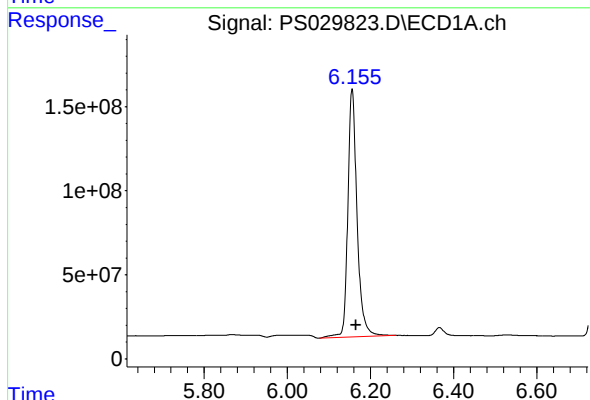
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



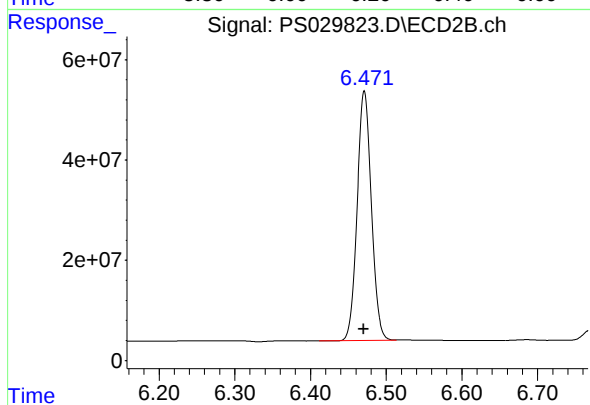
#1 Dalapon

R.T.: 2.531 min
Delta R.T.: -0.003 min
Response: 1097166140
Conc: 691.09 ng/ml



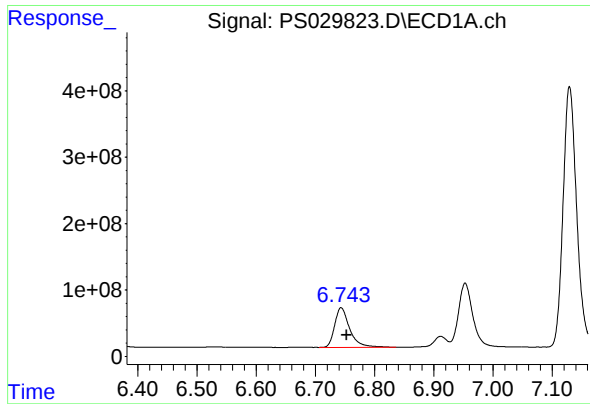
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.156 min
Delta R.T.: -0.009 min
Response: 2281277862
Conc: 758.46 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.471 min
Delta R.T.: 0.000 min
Response: 648877252
Conc: 672.02 ng/ml



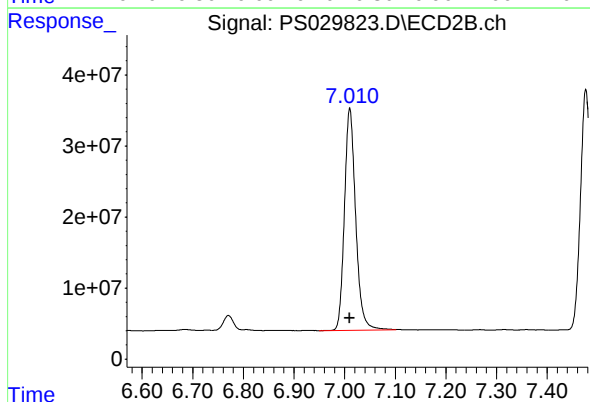
#3 4-Nitrophenol

R.T.: 6.744 min
Delta R.T.: -0.009 min
Response: 1049925142
Conc: 747.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

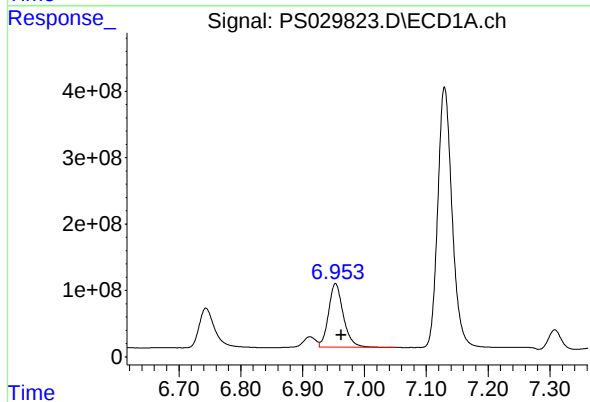
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



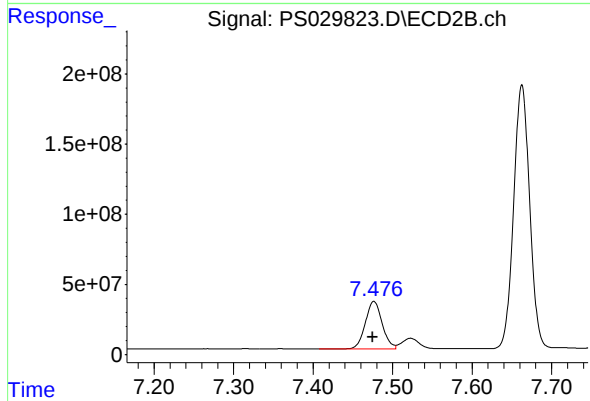
#3 4-Nitrophenol

R.T.: 7.010 min
Delta R.T.: 0.000 min
Response: 481469957
Conc: 679.08 ng/ml



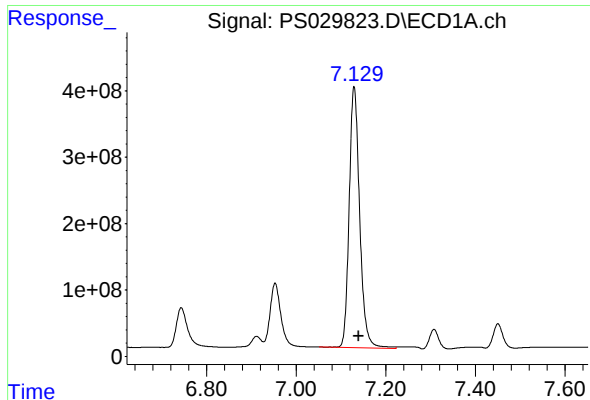
#4 2,4-DCAA

R.T.: 6.953 min
Delta R.T.: -0.009 min
Response: 1588390537
Conc: 779.07 ng/ml



#4 2,4-DCAA

R.T.: 7.476 min
Delta R.T.: 0.002 min
Response: 502044190
Conc: 736.66 ng/ml



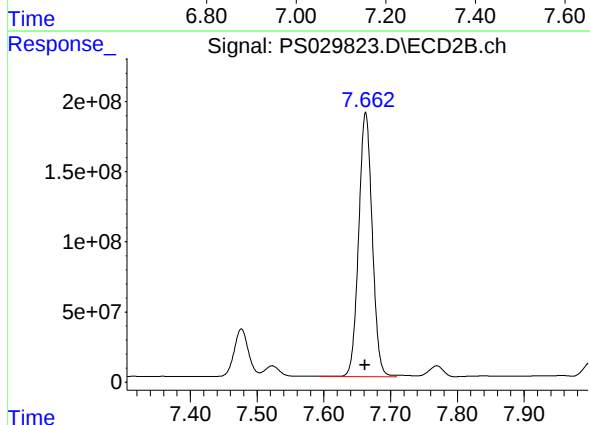
#5 DICAMBA

R.T.: 7.130 min
Delta R.T.: -0.010 min
Response: 6393197126
Conc: 768.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

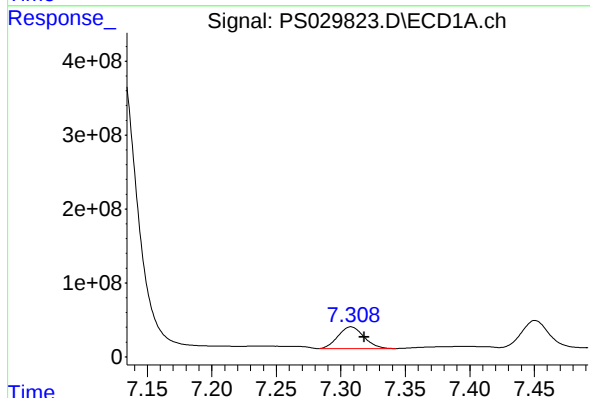
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



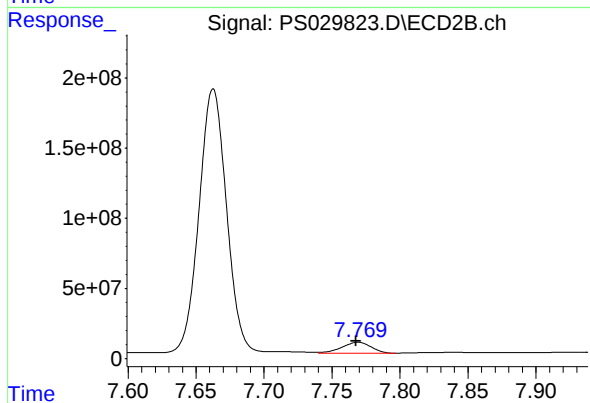
#5 DICAMBA

R.T.: 7.663 min
Delta R.T.: 0.000 min
Response: 2656503530
Conc: 719.26 ng/ml



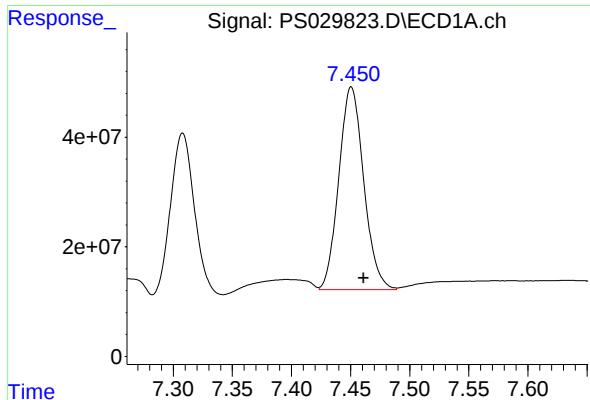
#6 MCP

R.T.: 7.308 min
Delta R.T.: -0.010 min
Response: 408241436
Conc: 75.32 ug/ml



#6 MCP

R.T.: 7.769 min
Delta R.T.: 0.002 min
Response: 115823703
Conc: 68.60 ug/ml



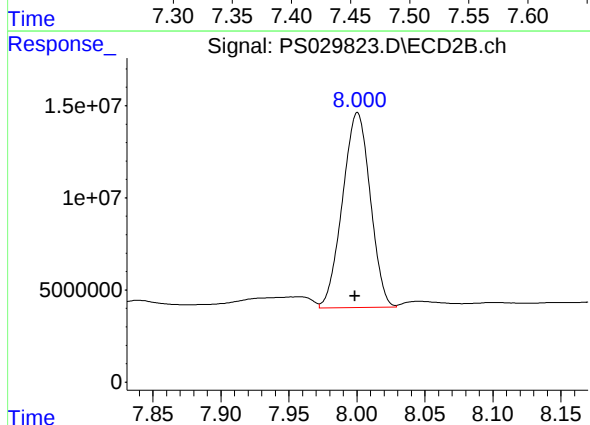
#7 MCPA

R.T.: 7.450 min
Delta R.T.: -0.011 min
Response: 543324558
Conc: 74.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

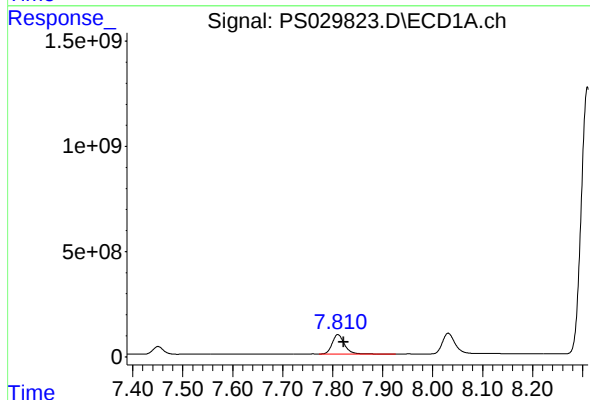
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



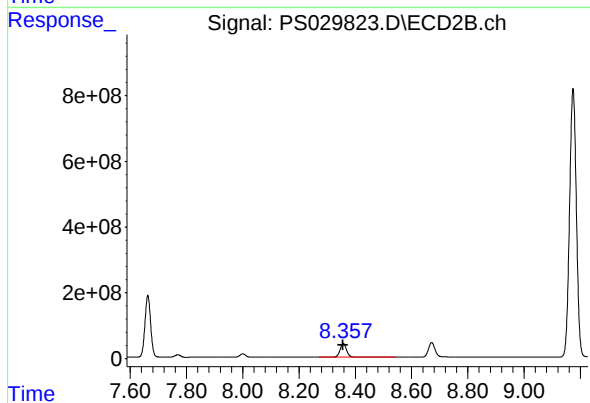
#7 MCPA

R.T.: 8.000 min
Delta R.T.: 0.002 min
Response: 150536188
Conc: 66.16 ug/ml



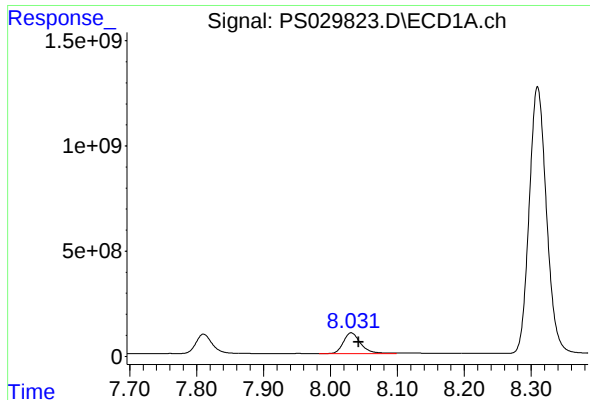
#8 DICHLORPROP

R.T.: 7.810 min
Delta R.T.: -0.012 min
Response: 1576342539
Conc: 716.70 ng/ml



#8 DICHLORPROP

R.T.: 8.357 min
Delta R.T.: 0.000 min
Response: 667688388
Conc: 691.08 ng/ml



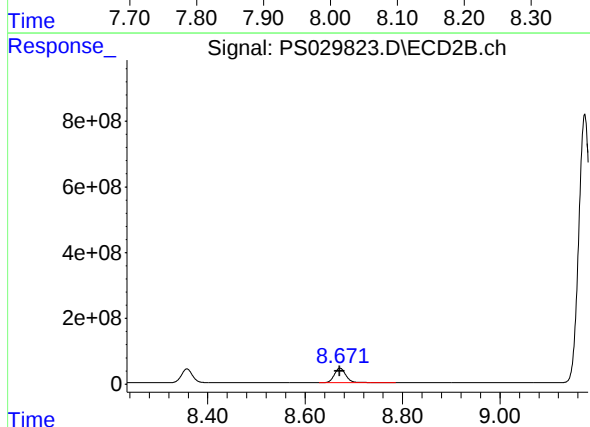
#9 2,4-D

R.T.: 8.031 min
Delta R.T.: -0.011 min
Response: 1765873806
Conc: 732.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

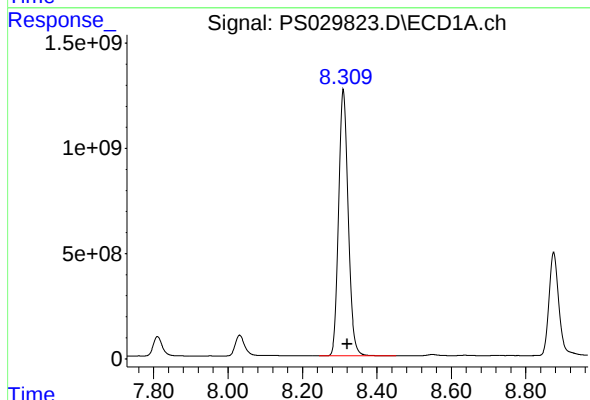
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



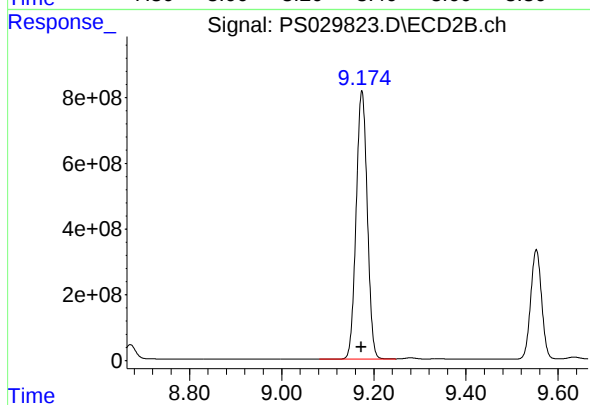
#9 2,4-D

R.T.: 8.672 min
Delta R.T.: 0.000 min
Response: 740387896
Conc: 686.52 ng/ml



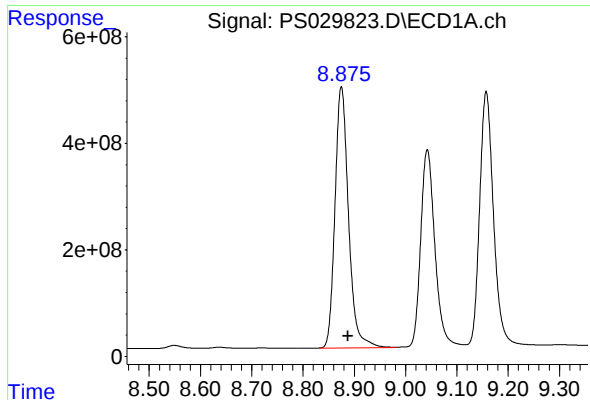
#10 Pentachlorophenol

R.T.: 8.310 min
Delta R.T.: -0.011 min
Response: 22709923804
Conc: 746.91 ng/ml



#10 Pentachlorophenol

R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 13696337395
Conc: 763.98 ng/ml



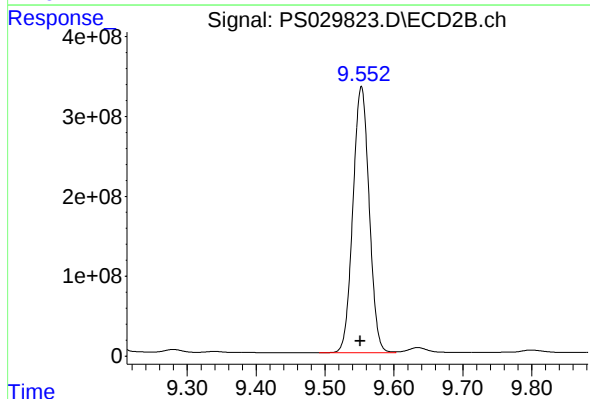
#11 2,4,5-TP (SILVEX)

R.T.: 8.875 min
Delta R.T.: -0.013 min
Response: 8982776270
Conc: 773.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

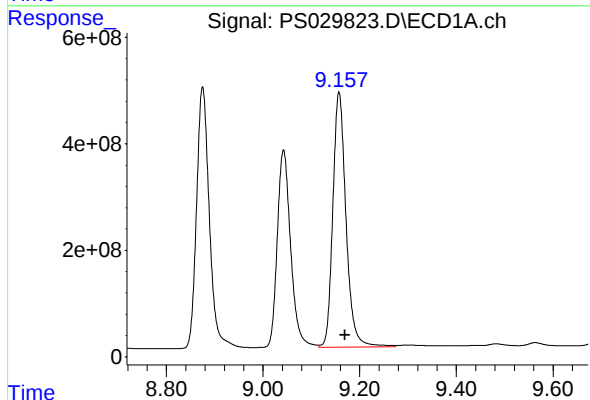
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



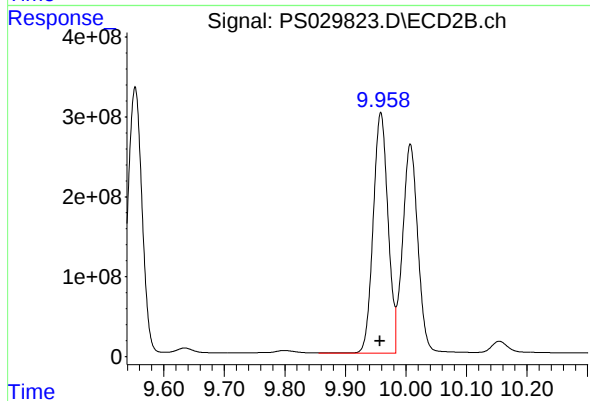
#11 2,4,5-TP (SILVEX)

R.T.: 9.553 min
Delta R.T.: 0.001 min
Response: 5454592768
Conc: 756.22 ng/ml



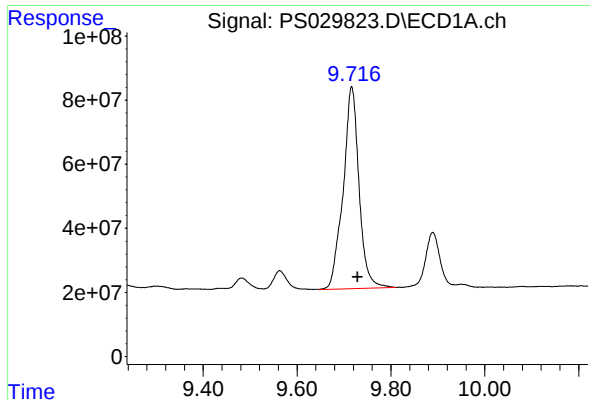
#12 2,4,5-T

R.T.: 9.157 min
Delta R.T.: -0.013 min
Response: 9070365072
Conc: 788.42 ng/ml



#12 2,4,5-T

R.T.: 9.959 min
Delta R.T.: 0.002 min
Response: 5106387925
Conc: 761.82 ng/ml



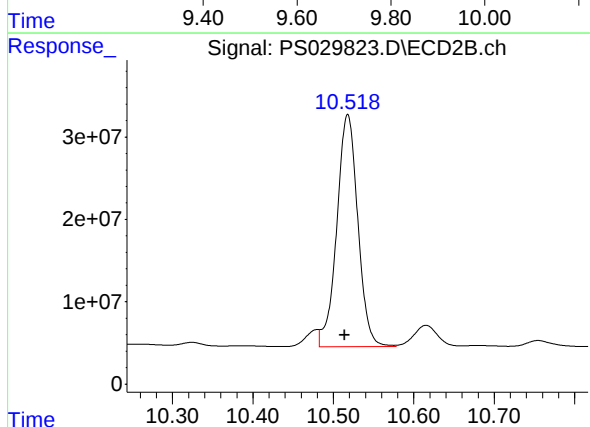
#13 2,4-DB

R.T.: 9.716 min
Delta R.T.: -0.014 min
Response: 1486695592
Conc: 818.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

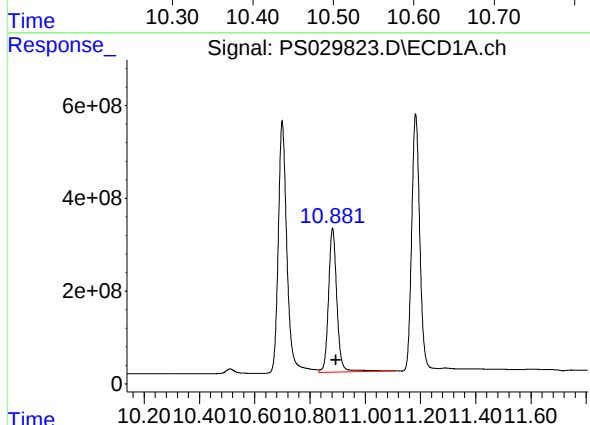
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



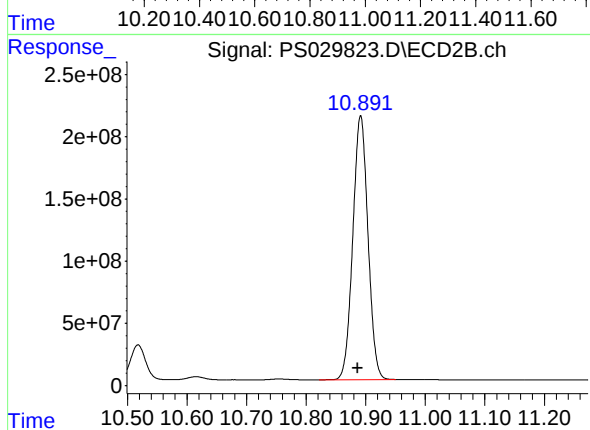
#13 2,4-DB

R.T.: 10.518 min
Delta R.T.: 0.004 min
Response: 511905187
Conc: 689.92 ng/ml



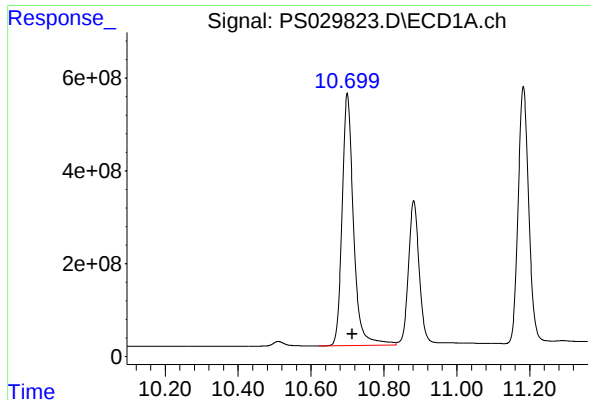
#14 DINOSEB

R.T.: 10.882 min
Delta R.T.: -0.013 min
Response: 6515253066
Conc: 771.76 ng/ml



#14 DINOSEB

R.T.: 10.892 min
Delta R.T.: 0.005 min
Response: 3745296165
Conc: 732.53 ng/ml



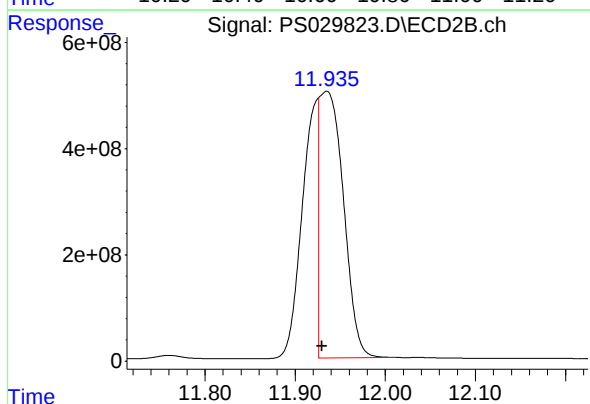
#15 Picloram

R.T.: 10.700 min
Delta R.T.: -0.014 min
Response: 11833975363
Conc: 763.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

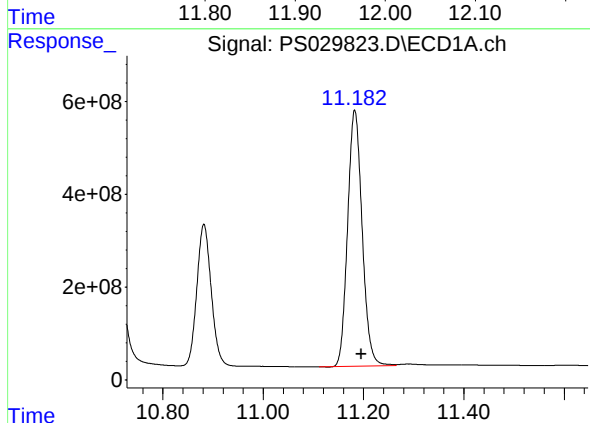
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



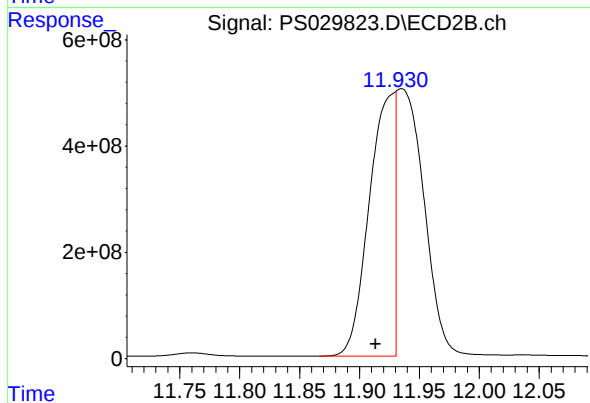
#15 Picloram

R.T.: 11.935 min
Delta R.T.: 0.005 min
Response: 9125548753
Conc: 771.75 ng/ml m



#16 DCPA

R.T.: 11.182 min
Delta R.T.: -0.013 min
Response: 11109402845
Conc: 795.45 ng/ml



#16 DCPA

R.T.: 11.930 min
Delta R.T.: 0.017 min
Response: 7294446128
Conc: 824.17 ng/ml m

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

Continuing Calib Date: 04/16/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 20:49 **Initial Calibration Time(s):** 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	6.95	6.96	6.86	7.06	0.01
2,4-D	8.03	8.04	7.94	8.14	0.01
2,4,5-TP(Silvex)	8.87	8.89	8.79	8.99	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

Continuing Calib Date: 04/16/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 20:49 **Initial Calibration Time(s):** 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.48	7.48	7.38	7.58	0.00
2,4-D	8.67	8.67	8.57	8.77	0.00
2,4,5-TP(Silvex)	9.55	9.55	9.45	9.65	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 04/02/2025 04/02/2025

Client Sample No.: CCAL02 Date Analyzed: 04/16/2025

Lab Sample No.: HSTDCCC750 Data File : PS029833.D Time Analyzed: 20:49

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.874	8.788	8.988	758.730	712.500	6.5
2,4-D	8.030	7.942	8.142	720.210	705.000	2.2
2,4-DCAA	6.952	6.863	7.063	768.900	750.000	2.5

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/02/2025 04/02/2025

Client Sample No.: CCAL02 Date Analyzed: 04/16/2025

Lab Sample No.: HSTDCCC750 Data File : PS029833.D Time Analyzed: 20:49

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.552	9.451	9.651	756.330	712.500	6.2
2,4-D	8.671	8.571	8.771	685.160	705.000	-2.8
2,4-DCAA	7.476	7.375	7.575	718.270	750.000	-4.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
 Data File : PS029833.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 20:49
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 04/17/2025
 Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:24:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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

System Monitoring Compounds							
4) S	2,4-DCAA	6.952	7.476	1567.7E6	489.5E6	768.903	718.269
Target Compounds							
1) T	Dalapon	2.455	2.531	2366.7E6	1046.7E6	697.660	659.271
2) T	3,5-DICHL...	6.155	6.471	2239.0E6	641.8E6	744.408	664.716
3) T	4-Nitroph...	6.743	7.009	1049.3E6	478.4E6	746.947	674.704
5) T	DICAMBA	7.129	7.662	6255.9E6	2621.2E6	751.736	709.707
6) T	MCP	7.307	7.769	403.1E6	111.3E6	74.377	65.925
7) T	MCPA	7.449	7.999	550.5E6	151.2E6	75.726m	66.467
8) T	DICHLORPROP	7.810	8.357	1548.2E6	663.4E6	703.886	686.691
9) T	2,4-D	8.030	8.671	1735.4E6	738.9E6	720.209	685.158
10) T	Pentachlo...	8.309	9.173	22417.1E6	13673.8E6	737.285	762.716
11) T	2,4,5-TP ...	8.874	9.552	8812.9E6	5455.4E6	758.727	756.329
12) T	2,4,5-T	9.156	9.958	8917.9E6	5121.1E6	775.167	764.026
13) T	2,4-DB	9.714	10.517	1450.6E6	504.6E6	798.474m	680.115m
14) T	DINOSEB	10.880	10.891	6425.0E6	3717.1E6	761.070	727.024
15) T	Picloram	10.698	11.931	11153.2E6	7193.7E6	719.545	608.376m
16) T	DCPA	11.181	11.924	10932.4E6	5845.5E6	782.783	660.456m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 20:49
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

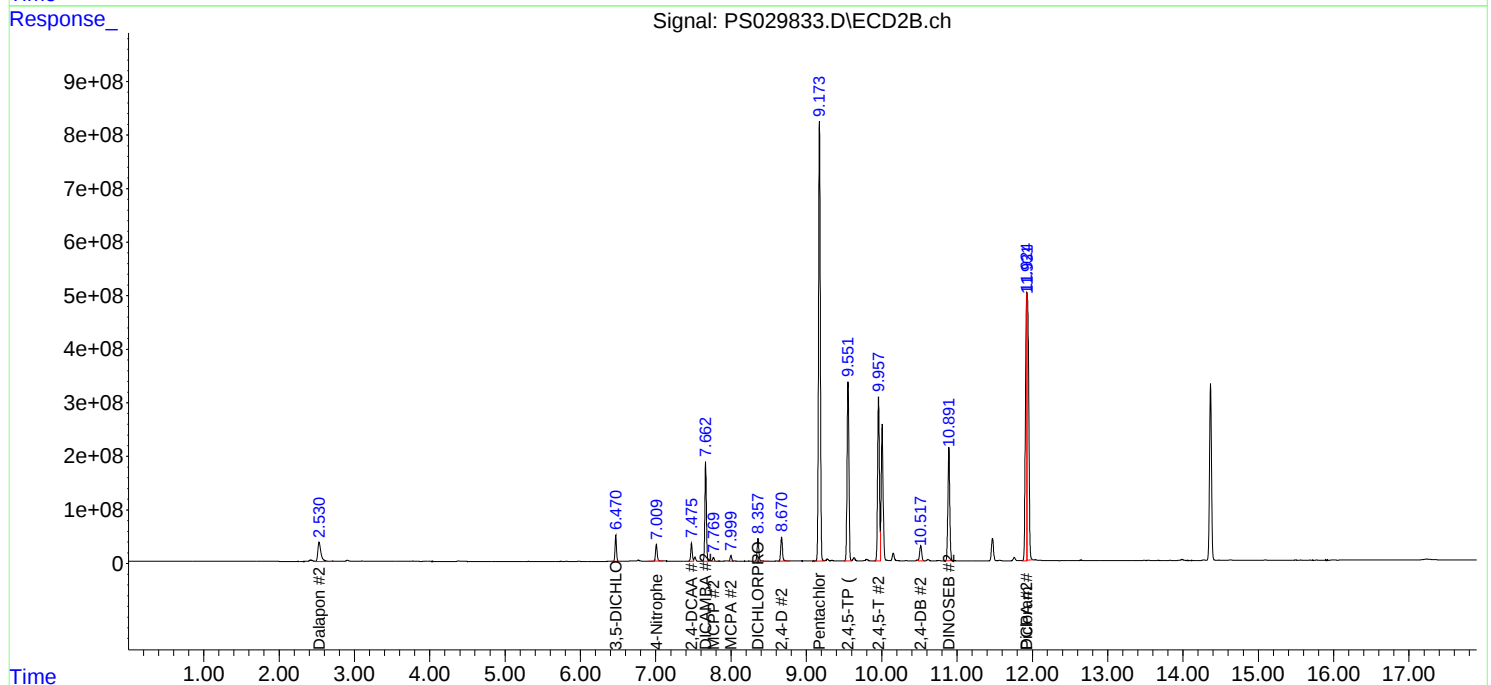
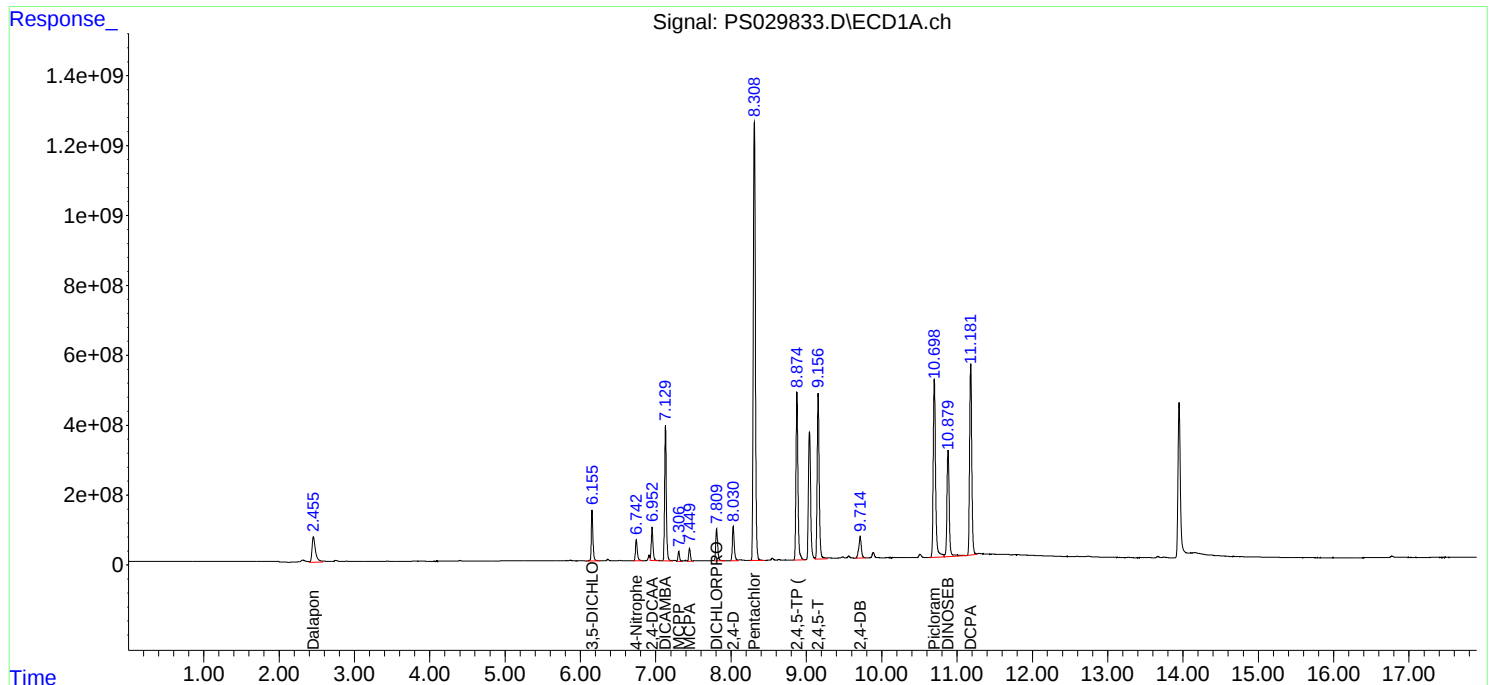
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

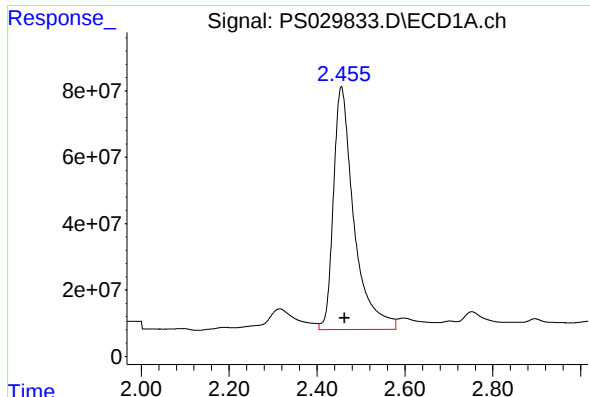
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/17/2025
Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:24:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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.: 2.455 min
Delta R.T.: -0.008 min
Response: 2366738319
Conc: 697.66 ng/ml

Instrument :

ECD_S

ClientSampleId :

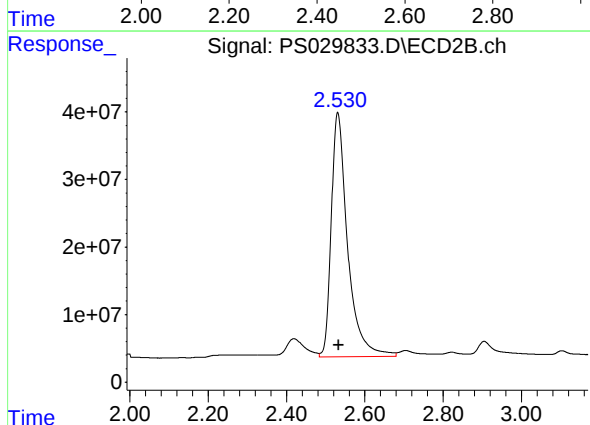
HSTDCCC750

Manual Integrations

APPROVED

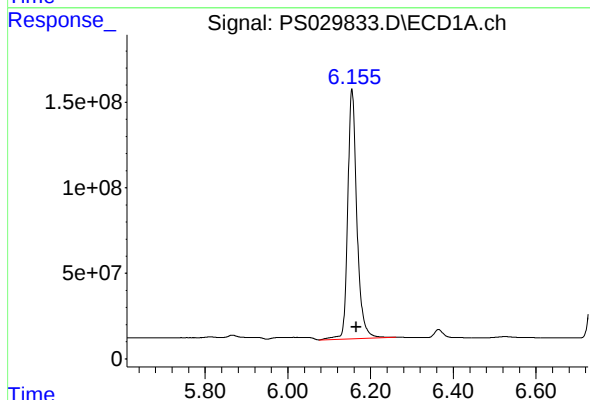
Reviewed By :Abdul Mirza 04/17/2025

Supervised By :mohammad ahmed 04/18/2025



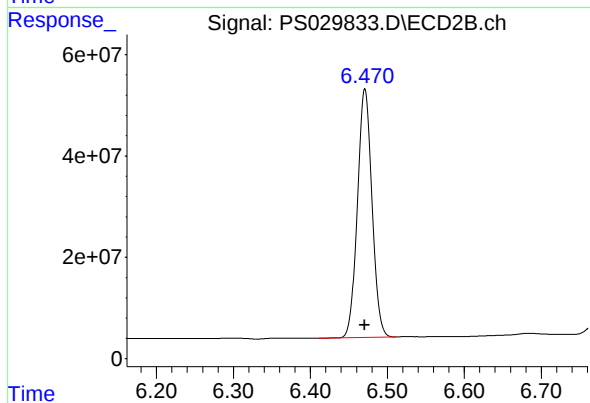
#1 Dalapon

R.T.: 2.531 min
Delta R.T.: -0.003 min
Response: 1046655209
Conc: 659.27 ng/ml



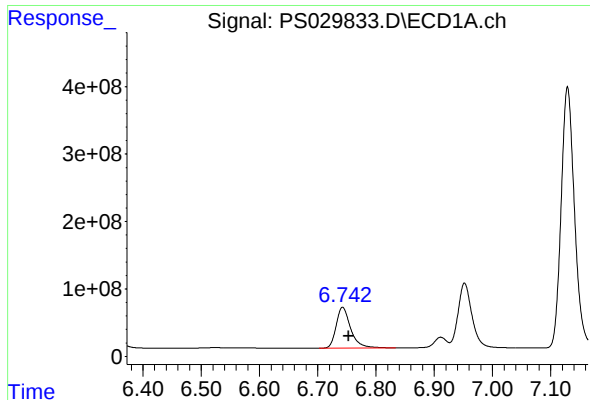
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.155 min
Delta R.T.: -0.010 min
Response: 2239000495
Conc: 744.41 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.471 min
Delta R.T.: 0.000 min
Response: 641821043
Conc: 664.72 ng/ml



#3 4-Nitrophenol

R.T.: 6.743 min
Delta R.T.: -0.010 min
Response: 1049310372
Conc: 746.95 ng/ml

Instrument :

ECD_S

ClientSampleId :

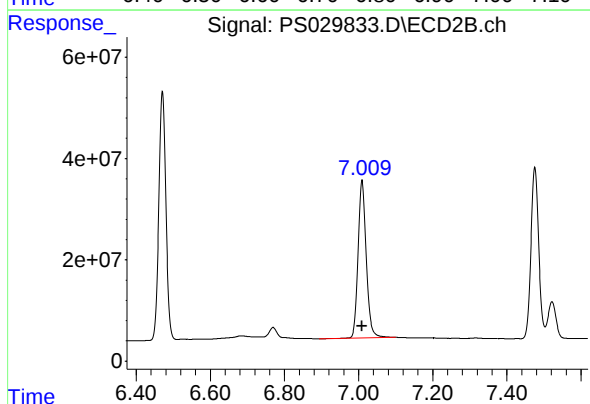
HSTDCCC750

Manual Integrations

APPROVED

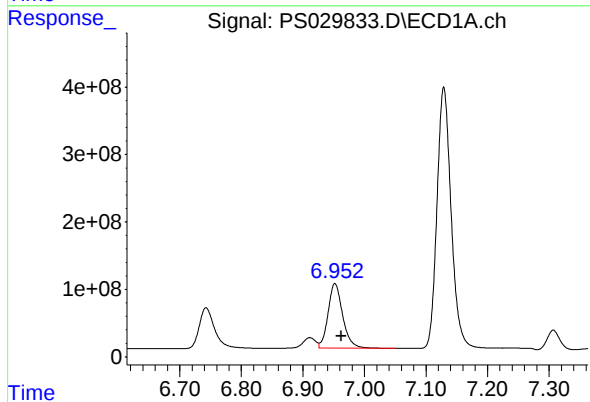
Reviewed By :Abdul Mirza 04/17/2025

Supervised By :mohammad ahmed 04/18/2025



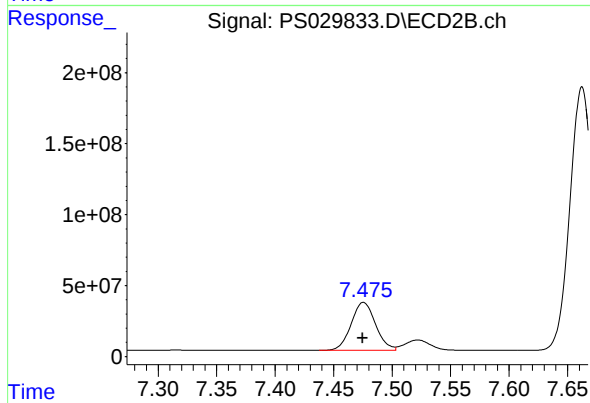
#3 4-Nitrophenol

R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 478363883
Conc: 674.70 ng/ml



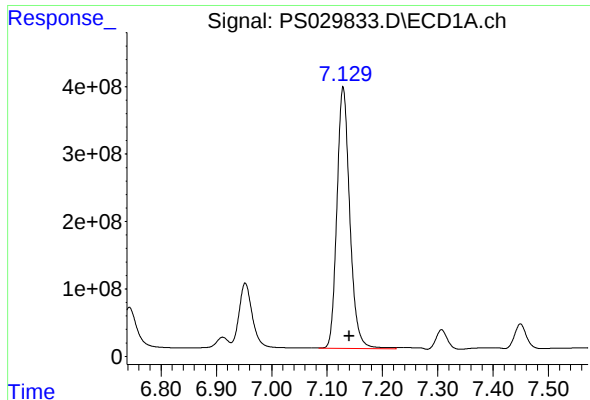
#4 2,4-DCAA

R.T.: 6.952 min
Delta R.T.: -0.010 min
Response: 1567662141
Conc: 768.90 ng/ml



#4 2,4-DCAA

R.T.: 7.476 min
Delta R.T.: 0.000 min
Response: 489509550
Conc: 718.27 ng/ml



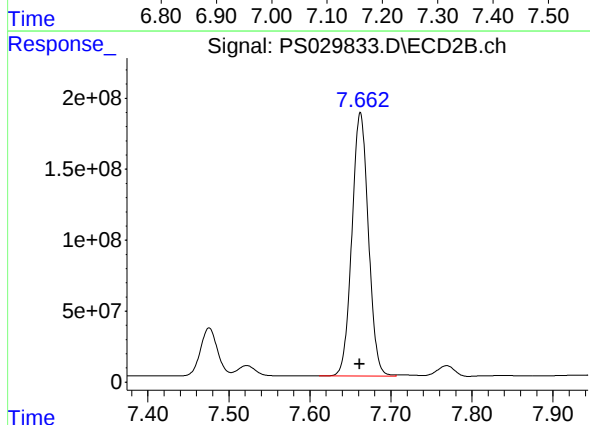
#5 DICAMBA

R.T.: 7.129 min
Delta R.T.: -0.011 min
Response: 6255905120
Conc: 751.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

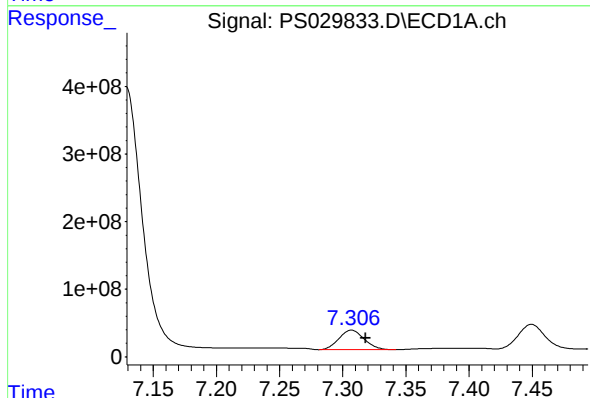
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



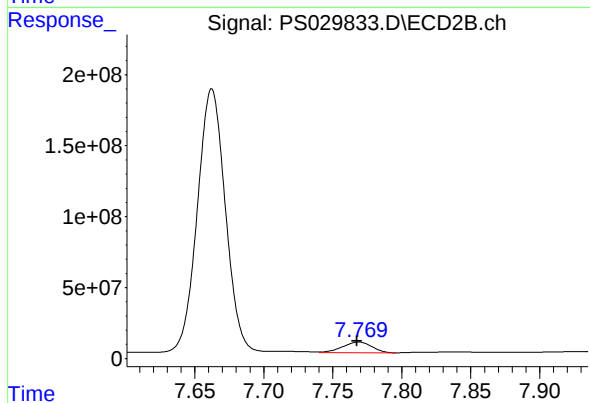
#5 DICAMBA

R.T.: 7.662 min
Delta R.T.: 0.000 min
Response: 2621208467
Conc: 709.71 ng/ml



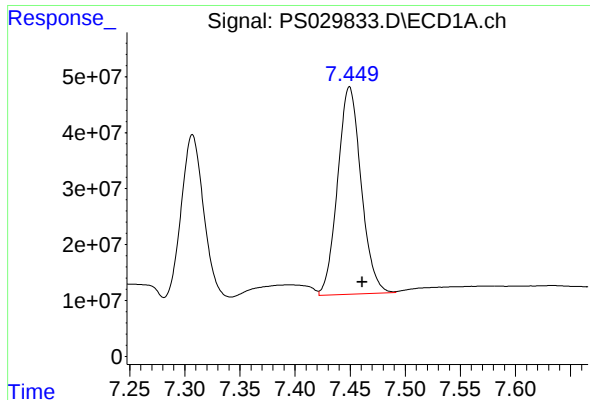
#6 MCP

R.T.: 7.307 min
Delta R.T.: -0.011 min
Response: 403114517
Conc: 74.38 ug/ml



#6 MCP

R.T.: 7.769 min
Delta R.T.: 0.001 min
Response: 111312167
Conc: 65.92 ug/ml



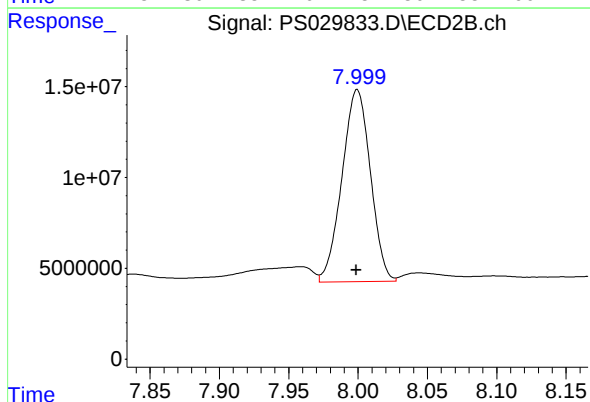
#7 MCPA

R.T.: 7.449 min
Delta R.T.: -0.012 min
Response: 550451688
Conc: 75.73 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

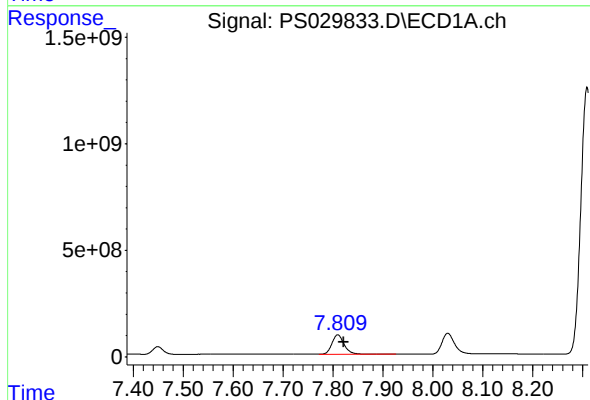
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



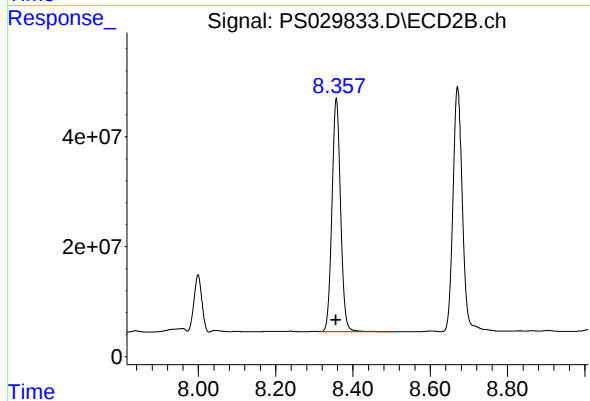
#7 MCPA

R.T.: 7.999 min
Delta R.T.: 0.000 min
Response: 151231003
Conc: 66.47 ug/ml



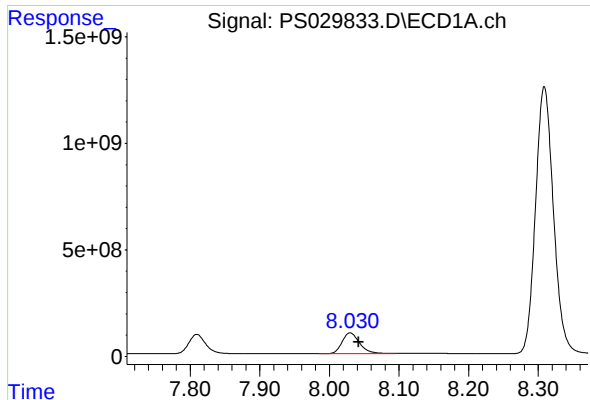
#8 DICHLORPROP

R.T.: 7.810 min
Delta R.T.: -0.012 min
Response: 1548153238
Conc: 703.89 ng/ml



#8 DICHLORPROP

R.T.: 8.357 min
Delta R.T.: 0.000 min
Response: 663448112
Conc: 686.69 ng/ml



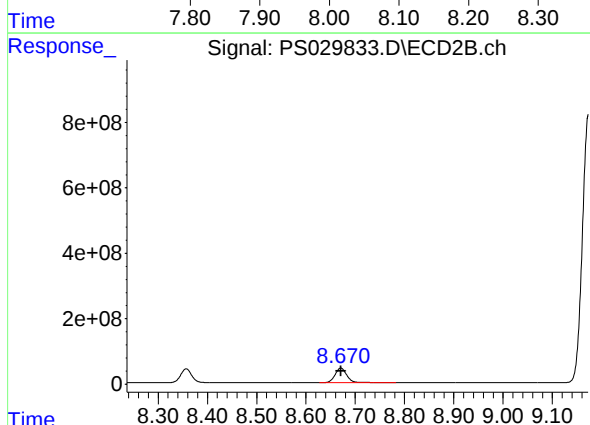
#9 2,4-D

R.T.: 8.030 min
Delta R.T.: -0.012 min
Response: 1735408715
Conc: 720.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

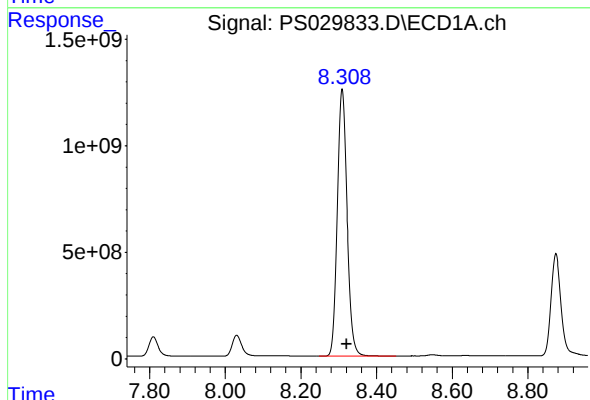
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



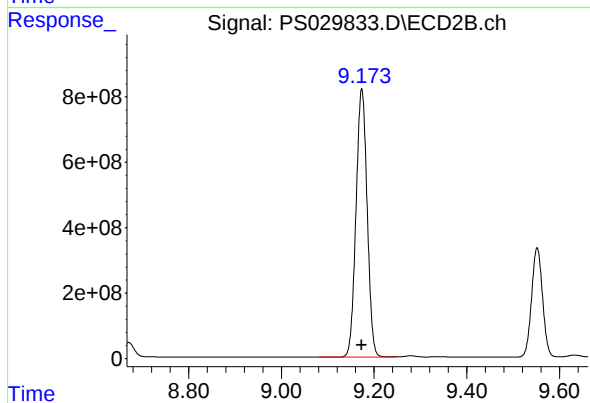
#9 2,4-D

R.T.: 8.671 min
Delta R.T.: 0.000 min
Response: 738918353
Conc: 685.16 ng/ml



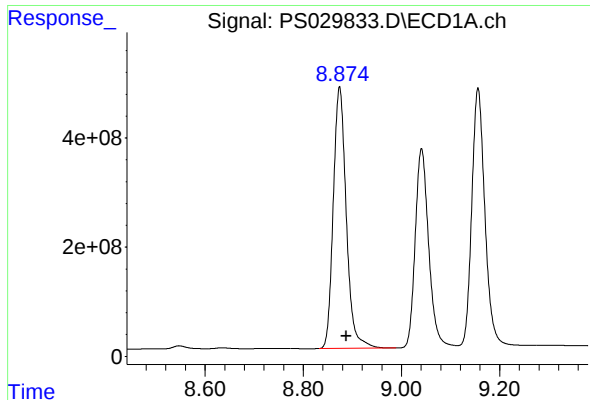
#10 Pentachlorophenol

R.T.: 8.309 min
Delta R.T.: -0.012 min
Response: 22417139190
Conc: 737.28 ng/ml



#10 Pentachlorophenol

R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 13673756407
Conc: 762.72 ng/ml



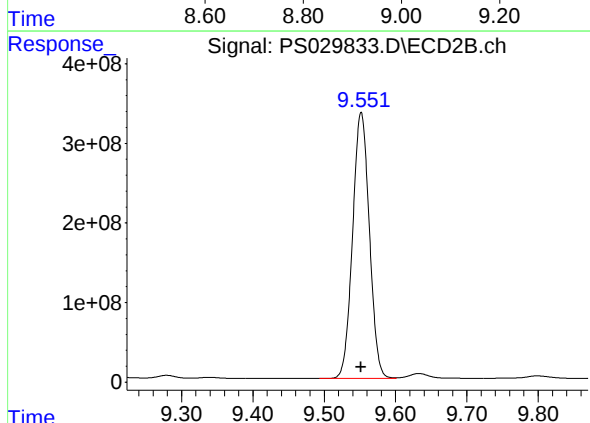
#11 2,4,5-TP (SILVEX)

R.T.: 8.874 min
Delta R.T.: -0.014 min
Response: 8812876455
Conc: 758.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

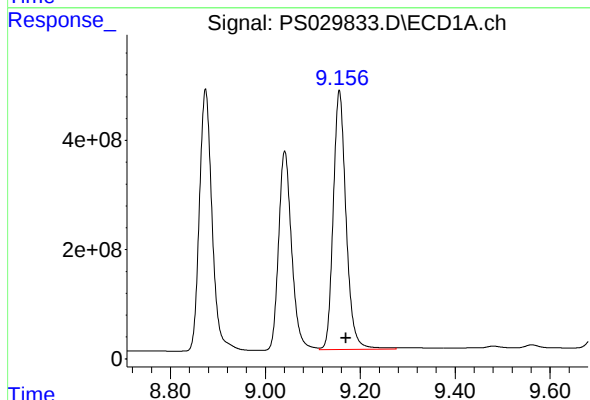
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



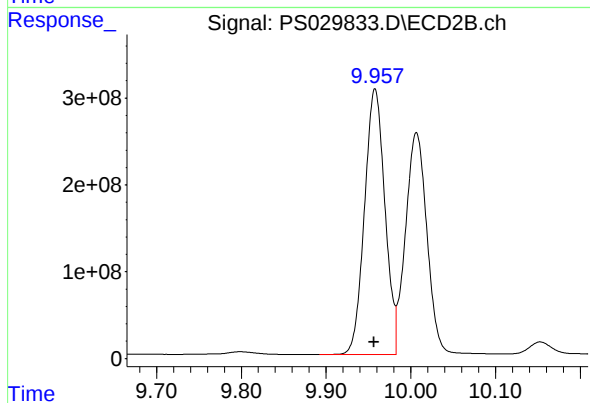
#11 2,4,5-TP (SILVEX)

R.T.: 9.552 min
Delta R.T.: 0.000 min
Response: 5455368008
Conc: 756.33 ng/ml



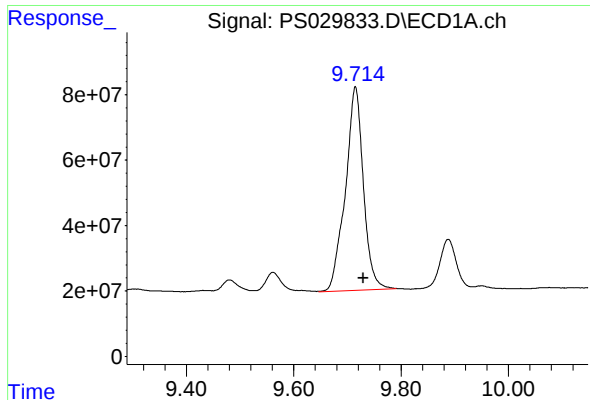
#12 2,4,5-T

R.T.: 9.156 min
Delta R.T.: -0.014 min
Response: 8917856155
Conc: 775.17 ng/ml



#12 2,4,5-T

R.T.: 9.958 min
Delta R.T.: 0.000 min
Response: 5121145668
Conc: 764.03 ng/ml



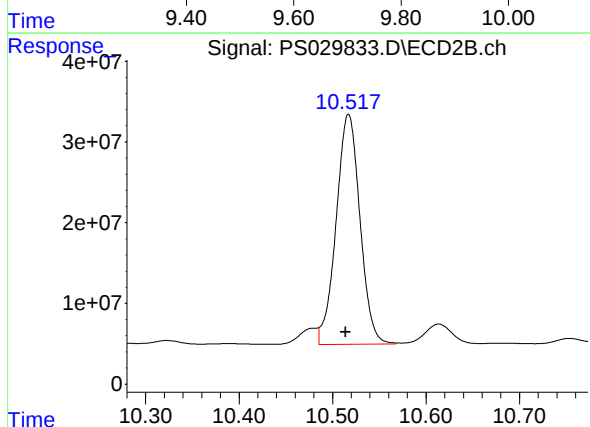
#13 2,4-DB

R.T.: 9.714 min
Delta R.T.: -0.015 min
Response: 1450622784
Conc: 798.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

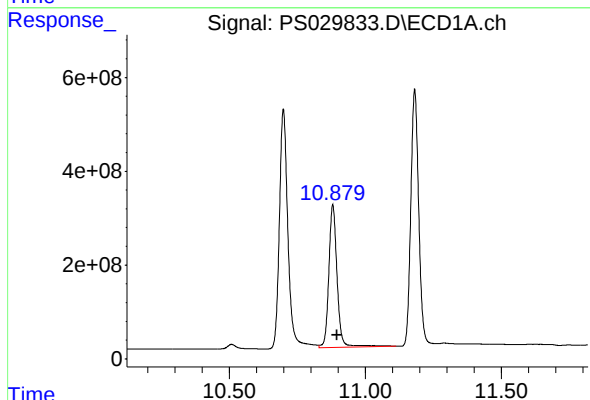
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



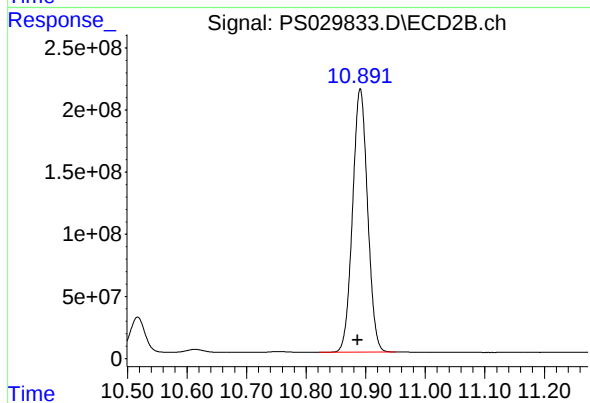
#13 2,4-DB

R.T.: 10.517 min
Delta R.T.: 0.003 min
Response: 504628873
Conc: 680.12 ng/ml



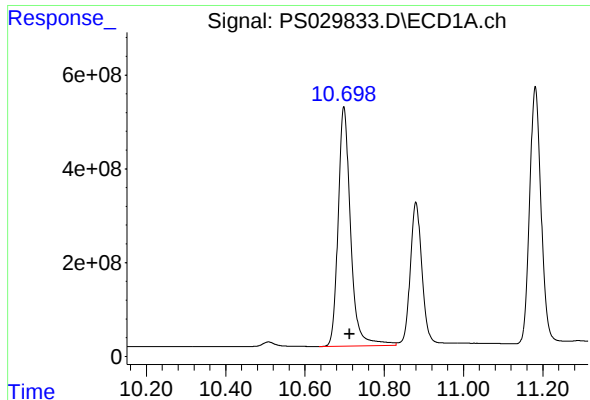
#14 DINOSEB

R.T.: 10.880 min
Delta R.T.: -0.015 min
Response: 6424983890
Conc: 761.07 ng/ml



#14 DINOSEB

R.T.: 10.891 min
Delta R.T.: 0.004 min
Response: 3717131578
Conc: 727.02 ng/ml



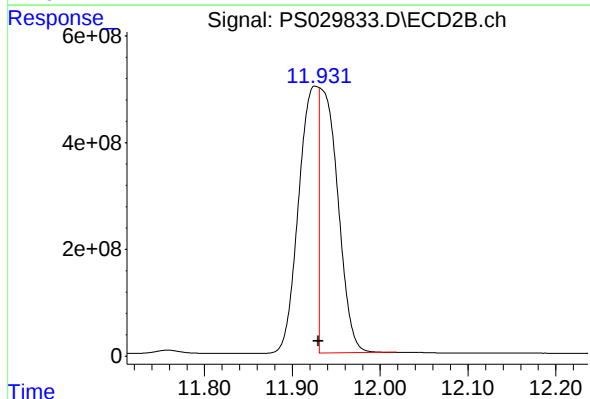
#15 Picloram

R.T.: 10.698 min
Delta R.T.: -0.015 min
Response: 11153225964
Conc: 719.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

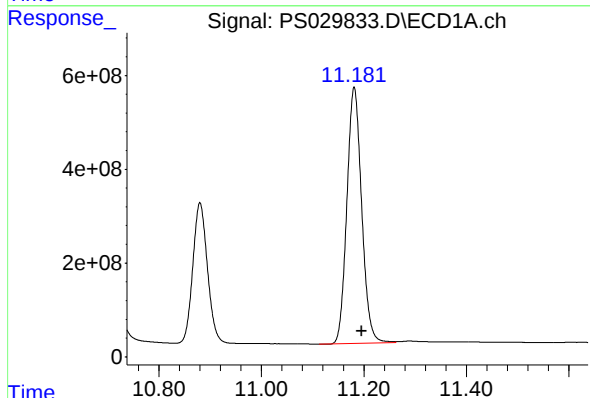
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



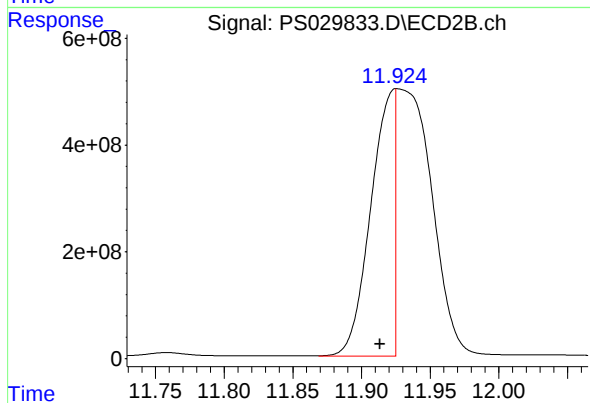
#15 Picloram

R.T.: 11.931 min
Delta R.T.: 0.000 min
Response: 7193697091
Conc: 608.38 ng/ml m



#16 DCPA

R.T.: 11.181 min
Delta R.T.: -0.014 min
Response: 10932428713
Conc: 782.78 ng/ml



#16 DCPA

R.T.: 11.924 min
Delta R.T.: 0.011 min
Response: 5845471880
Conc: 660.46 ng/ml m

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

Continuing Calib Date: 04/17/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 09:01 **Initial Calibration Time(s):** 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	6.95	6.96	6.86	7.06	0.01
2,4-D	8.03	8.04	7.94	8.14	0.01
2,4,5-TP(Silvex)	8.87	8.89	8.79	8.99	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

Continuing Calib Date: 04/17/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 09:01 **Initial Calibration Time(s):** 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.47	7.48	7.38	7.58	0.01
2,4-D	8.67	8.67	8.57	8.77	0.00
2,4,5-TP(Silvex)	9.55	9.55	9.45	9.65	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 04/02/2025 04/02/2025

Client Sample No.: CCAL03 Date Analyzed: 04/17/2025

Lab Sample No.: HSTDCCC750 Data File : PS029836.D Time Analyzed: 09:01

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.872	8.788	8.988	741.060	712.500	4.0
2,4-D	8.028	7.942	8.142	701.300	705.000	-0.5
2,4-DCAA	6.950	6.863	7.063	751.320	750.000	0.2

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/02/2025 04/02/2025

Client Sample No.: CCAL03 Date Analyzed: 04/17/2025

Lab Sample No.: HSTDCCC750 Data File : PS029836.D Time Analyzed: 09:01

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.550	9.451	9.651	740.970	712.500	4.0
2,4-D	8.669	8.571	8.771	668.580	705.000	-5.2
2,4-DCAA	7.474	7.375	7.575	705.620	750.000	-5.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
 Data File : PS029836.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Apr 2025 09:01
 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: Apr 17 23:41:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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	6.950	7.474	1531.8E6	480.9E6	751.324	705.617
Target Compounds							
1) T	Dalapon	2.455	2.531	2384.4E6	1029.0E6	702.876	648.123
2) T	3,5-DICHL...	6.154	6.469	2209.4E6	631.4E6	734.562	653.916
3) T	4-Nitroph...	6.741	7.008	1025.2E6	468.1E6	729.755	660.281
5) T	DICAMBA	7.127	7.660	6114.1E6	2569.9E6	734.696	695.819
6) T	MCP	7.305	7.767	392.4E6	108.6E6	72.392	64.335
7) T	MCPA	7.448	7.998	523.0E6	144.5E6	71.943m	63.499
8) T	DICHLORPROP	7.808	8.355	1515.6E6	647.0E6	689.065	669.690
9) T	2,4-D	8.028	8.669	1689.9E6	721.0E6	701.303	668.580
10) T	Pentachlo...	8.307	9.171	21865.2E6	13408.1E6	719.130	747.896
11) T	2,4,5-TP ...	8.872	9.550	8607.7E6	5344.6E6	741.064	740.968
12) T	2,4,5-T	9.154	9.956	8675.6E6	5000.3E6	754.114	745.998
13) T	2,4-DB	9.714	10.514	1401.4E6	518.1E6	771.368	698.251
14) T	DINOSEB	10.878	10.889	6245.6E6	3651.9E6	739.821	714.275
15) T	Picloram	10.696	11.929	11230.8E6	8444.2E6	724.551	714.133m
16) T	DCPA	11.179	11.925	10711.5E6	6902.9E6	766.964	779.928m

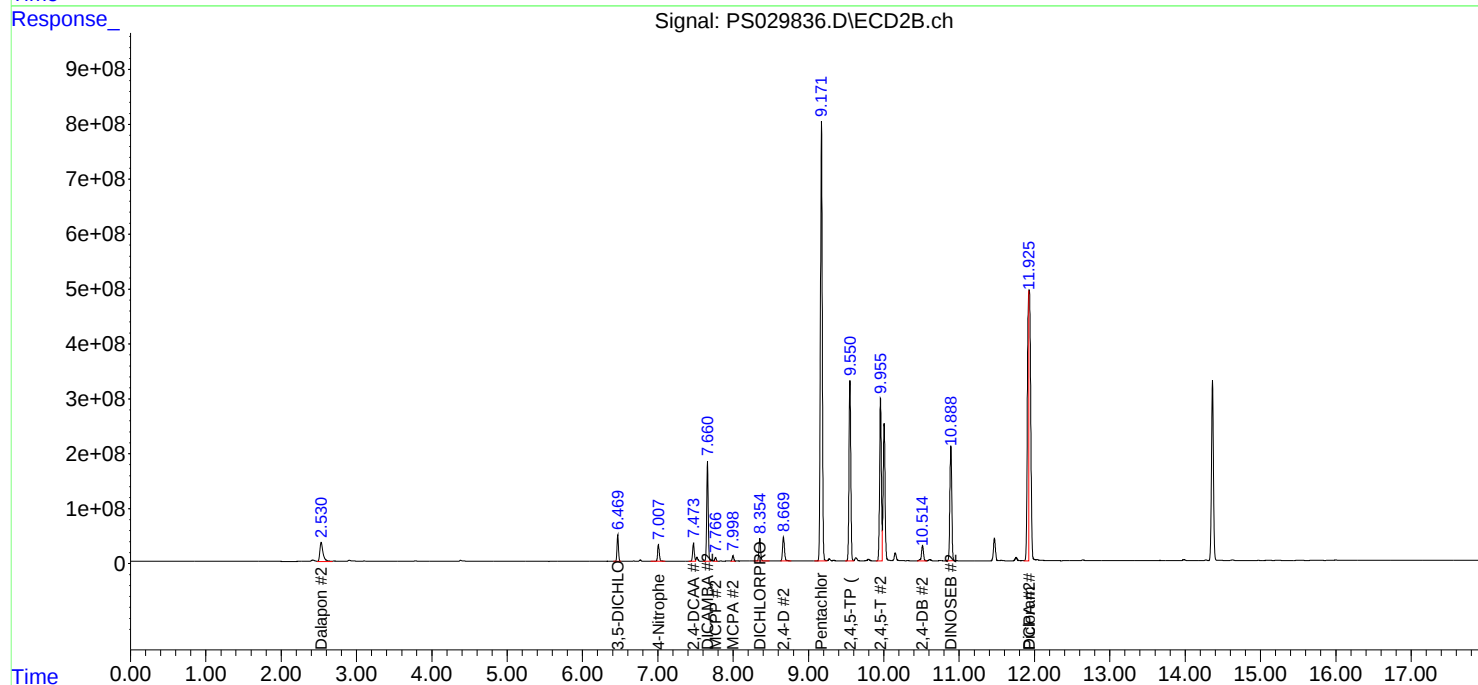
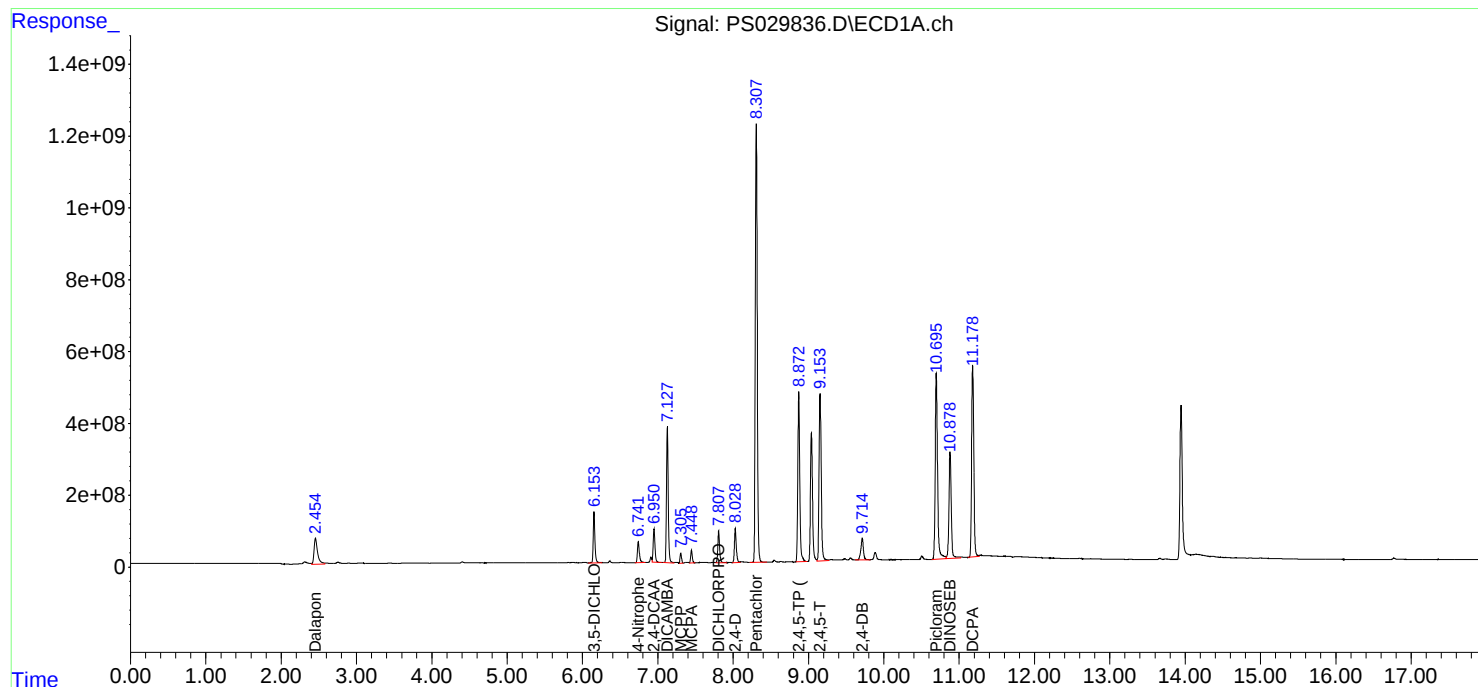
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

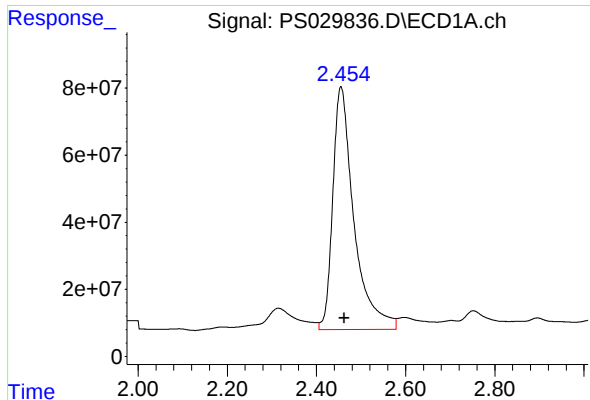
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
Data File : PS029836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2025 09:01
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 23:41:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

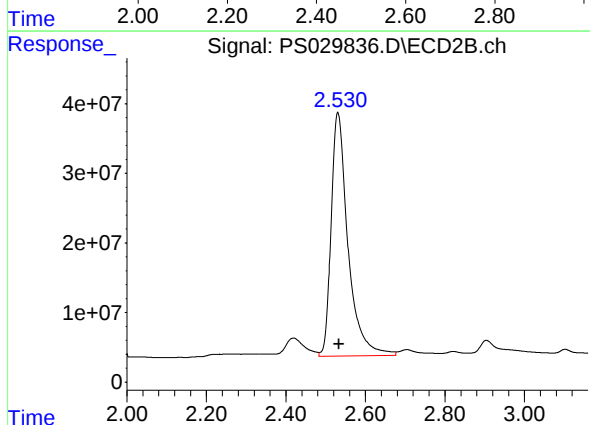




#1 Dalapon

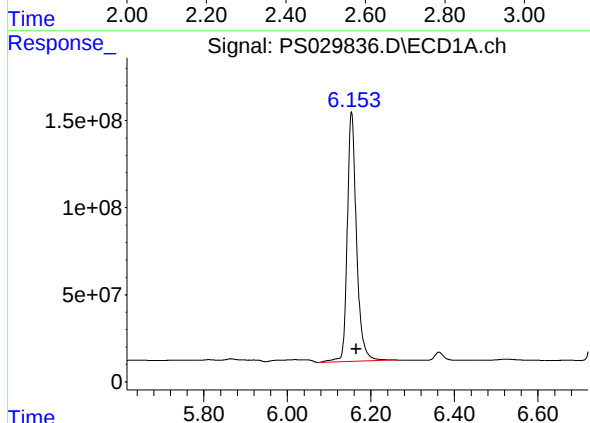
R.T.: 2.455 min
Delta R.T.: -0.008 min
Response: 2384435027
Conc: 702.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



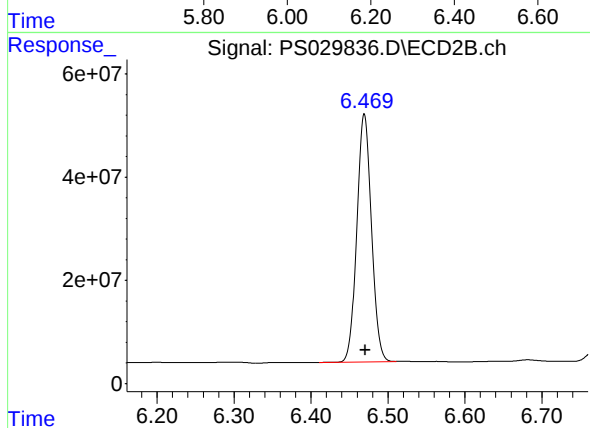
#1 Dalapon

R.T.: 2.531 min
Delta R.T.: -0.002 min
Response: 1028957371
Conc: 648.12 ng/ml



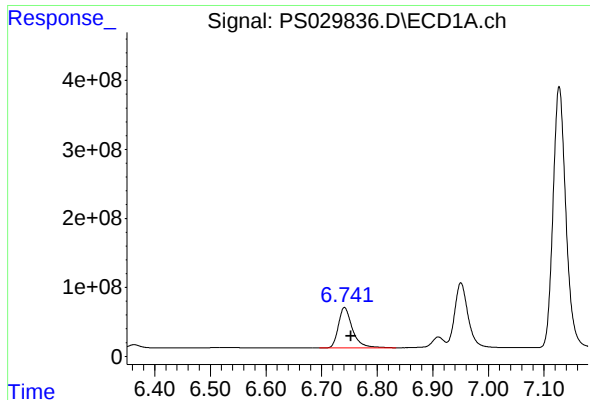
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.154 min
Delta R.T.: -0.011 min
Response: 2209384495
Conc: 734.56 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

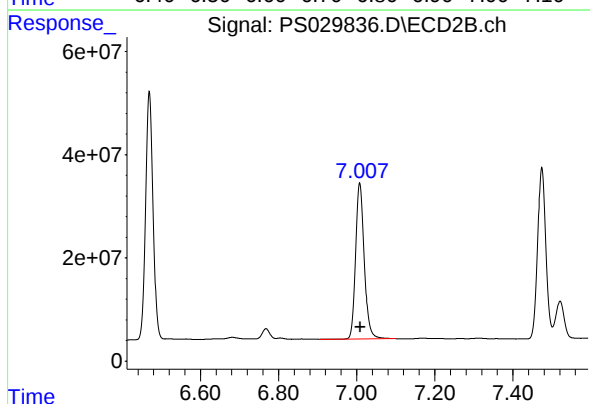
R.T.: 6.469 min
Delta R.T.: -0.001 min
Response: 631392978
Conc: 653.92 ng/ml



#3 4-Nitrophenol

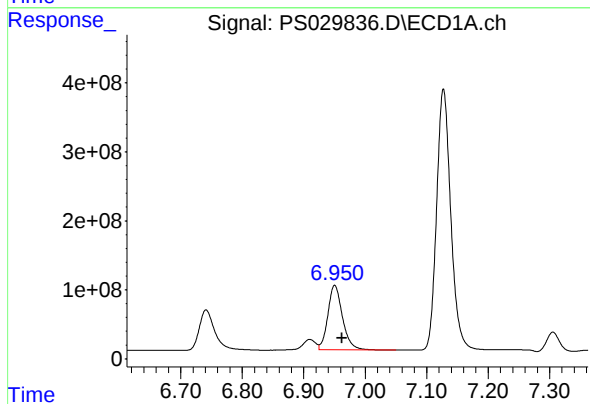
R.T.: 6.741 min
Delta R.T.: -0.012 min
Response: 1025159040
Conc: 729.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



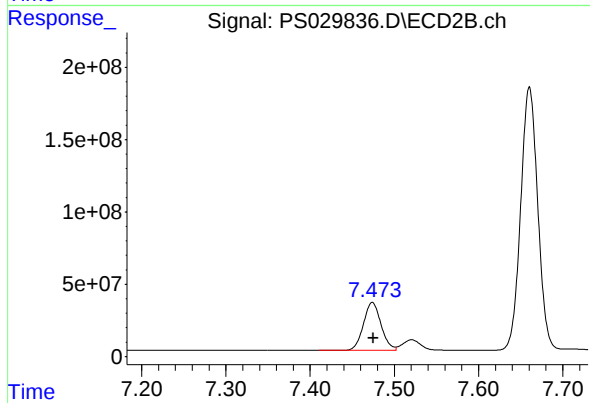
#3 4-Nitrophenol

R.T.: 7.008 min
Delta R.T.: -0.002 min
Response: 468137919
Conc: 660.28 ng/ml



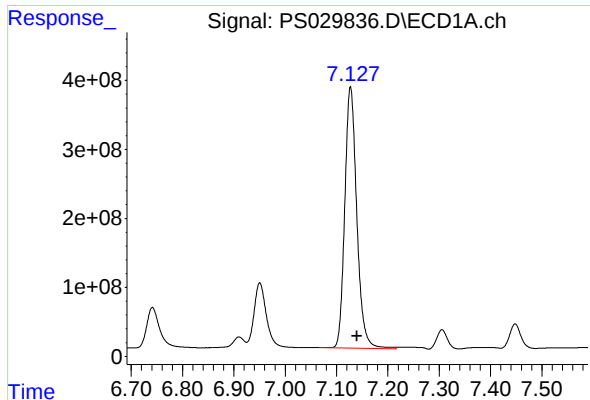
#4 2,4-DCAA

R.T.: 6.950 min
Delta R.T.: -0.012 min
Response: 1531822781
Conc: 751.32 ng/ml



#4 2,4-DCAA

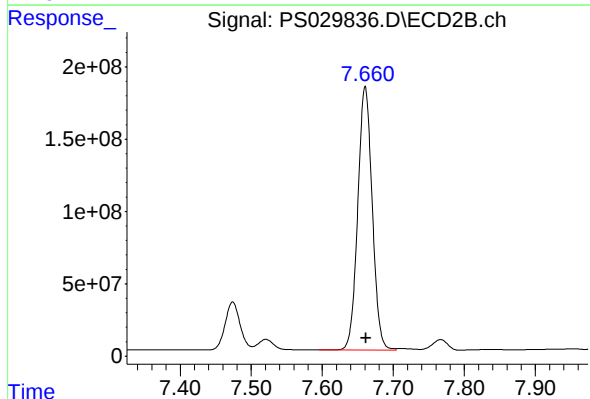
R.T.: 7.474 min
Delta R.T.: 0.000 min
Response: 480887181
Conc: 705.62 ng/ml



#5 DICAMBA

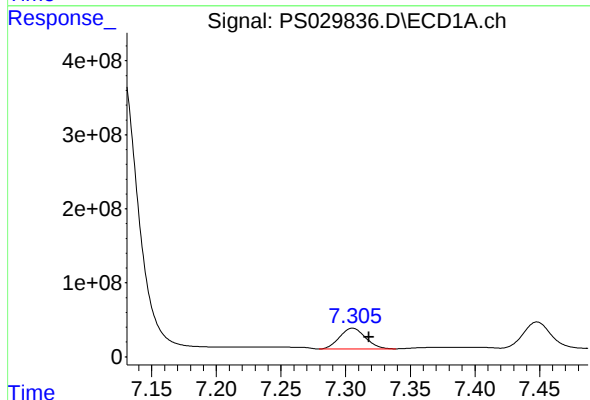
R.T.: 7.127 min
Delta R.T.: -0.013 min
Response: 6114101030
Conc: 734.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



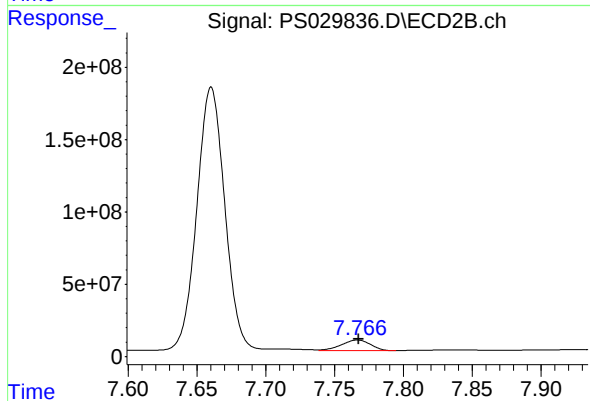
#5 DICAMBA

R.T.: 7.660 min
Delta R.T.: -0.001 min
Response: 2569917485
Conc: 695.82 ng/ml



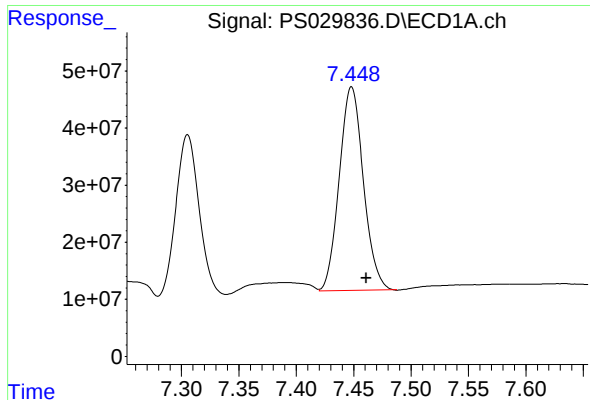
#6 MCPP

R.T.: 7.305 min
Delta R.T.: -0.013 min
Response: 392355460
Conc: 72.39 ug/ml



#6 MCPP

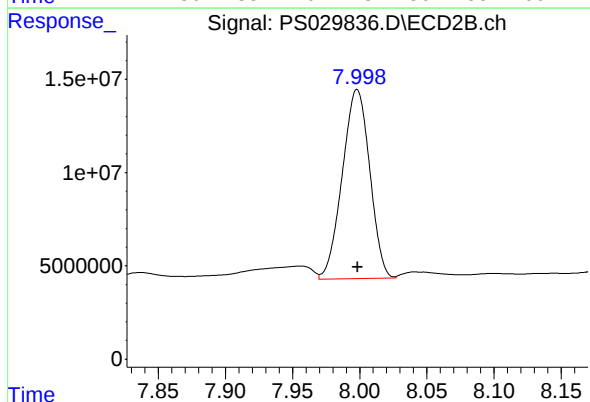
R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 108627984
Conc: 64.33 ug/ml



#7 MCPA

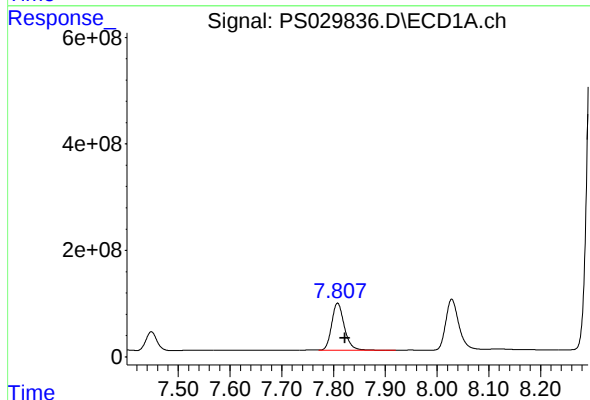
R.T.: 7.448 min
Delta R.T.: -0.014 min
Response: 522957181
Conc: 71.94 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



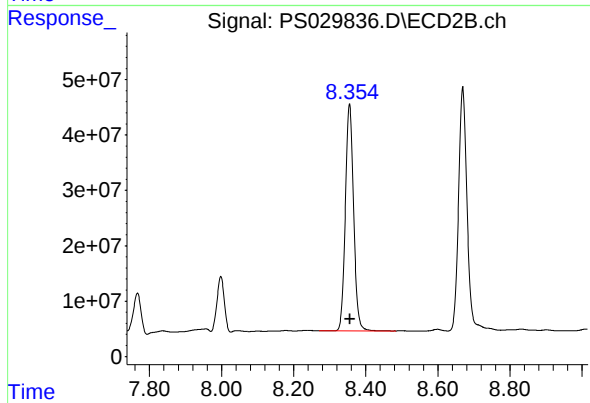
#7 MCPA

R.T.: 7.998 min
Delta R.T.: 0.000 min
Response: 144477332
Conc: 63.50 ug/ml



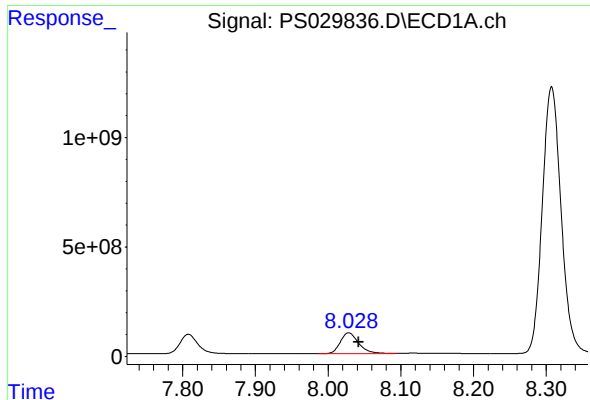
#8 DICHLORPROP

R.T.: 7.808 min
Delta R.T.: -0.014 min
Response: 1515556805
Conc: 689.07 ng/ml



#8 DICHLORPROP

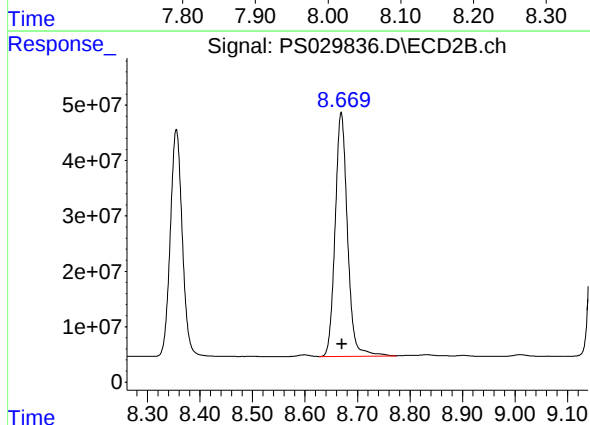
R.T.: 8.355 min
Delta R.T.: -0.001 min
Response: 647022451
Conc: 669.69 ng/ml



#9 2,4-D

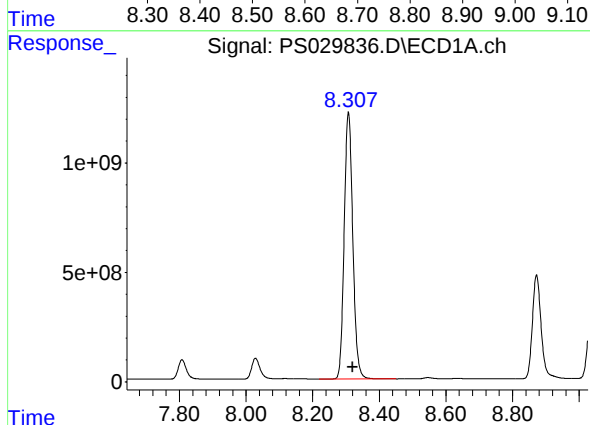
R.T.: 8.028 min
Delta R.T.: -0.014 min
Response: 1689853974
Conc: 701.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



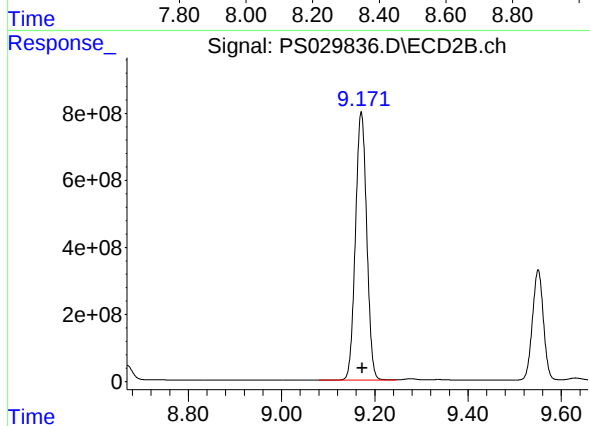
#9 2,4-D

R.T.: 8.669 min
Delta R.T.: -0.002 min
Response: 721040047
Conc: 668.58 ng/ml



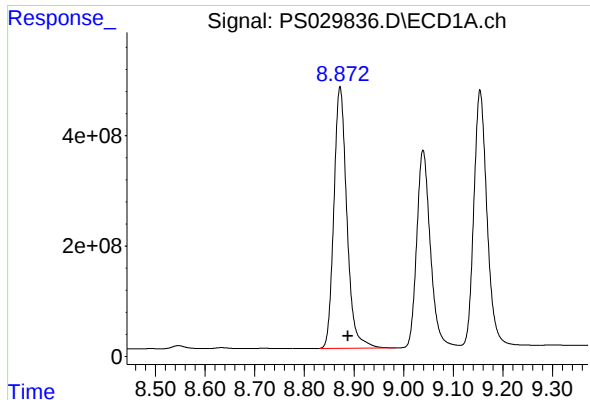
#10 Pentachlorophenol

R.T.: 8.307 min
Delta R.T.: -0.013 min
Response: 21865154161
Conc: 719.13 ng/ml



#10 Pentachlorophenol

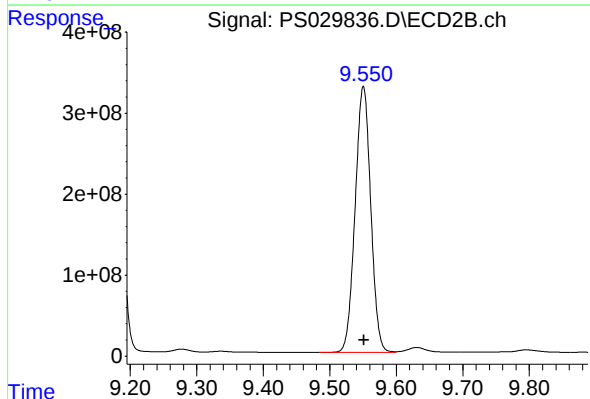
R.T.: 9.171 min
Delta R.T.: -0.002 min
Response: 13408078638
Conc: 747.90 ng/ml



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

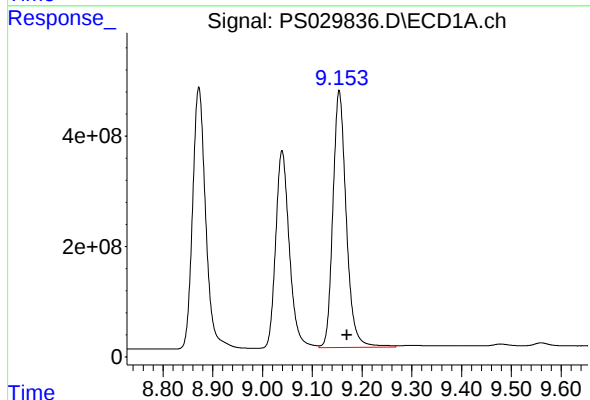
R.T.: 8.872 min
Delta R.T.: -0.016 min
Response: 8607723189
Conc: 741.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



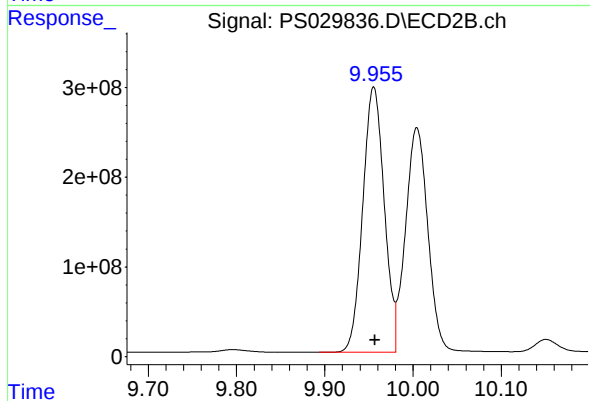
#11 2,4,5-TP (SILVEX)

R.T.: 9.550 min
Delta R.T.: 0.000 min
Response: 5344570672
Conc: 740.97 ng/ml



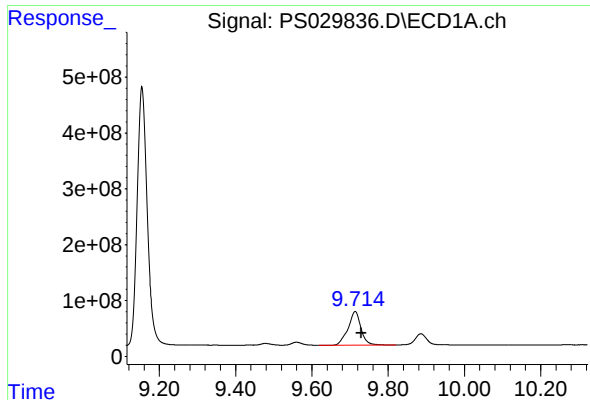
#12 2,4,5-T

R.T.: 9.154 min
Delta R.T.: -0.016 min
Response: 8675646172
Conc: 754.11 ng/ml



#12 2,4,5-T

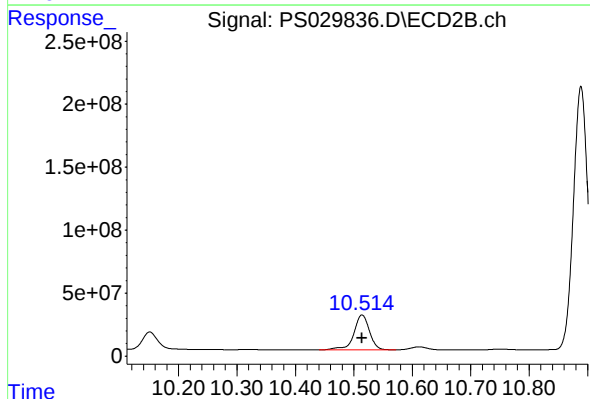
R.T.: 9.956 min
Delta R.T.: -0.001 min
Response: 5000301686
Conc: 746.00 ng/ml



#13 2,4-DB

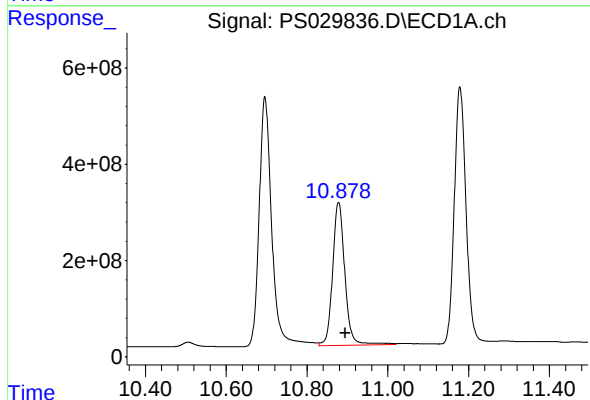
R.T.: 9.714 min
Delta R.T.: -0.016 min
Response: 1401378631
Conc: 771.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



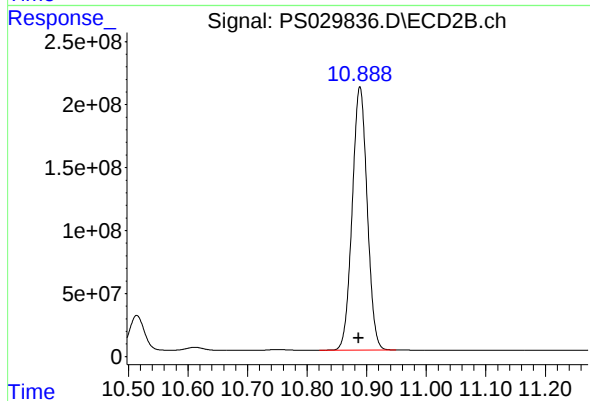
#13 2,4-DB

R.T.: 10.514 min
Delta R.T.: 0.000 min
Response: 518084961
Conc: 698.25 ng/ml



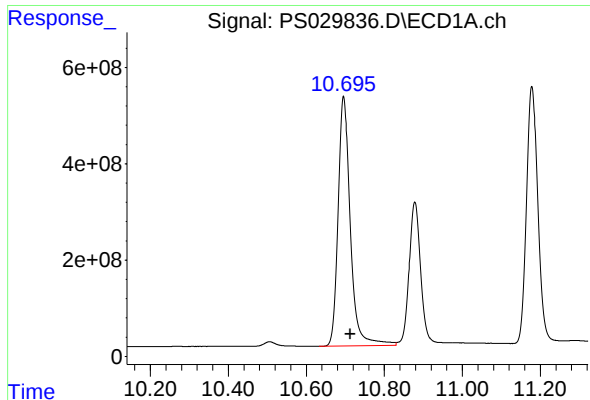
#14 DINOSEB

R.T.: 10.878 min
Delta R.T.: -0.017 min
Response: 6245596116
Conc: 739.82 ng/ml



#14 DINOSEB

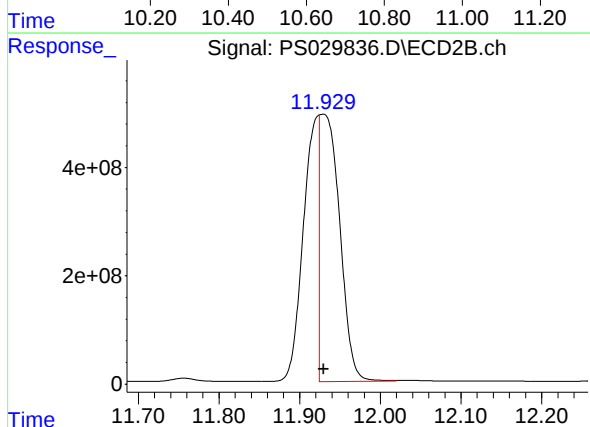
R.T.: 10.889 min
Delta R.T.: 0.002 min
Response: 3651945174
Conc: 714.27 ng/ml



#15 Picloram

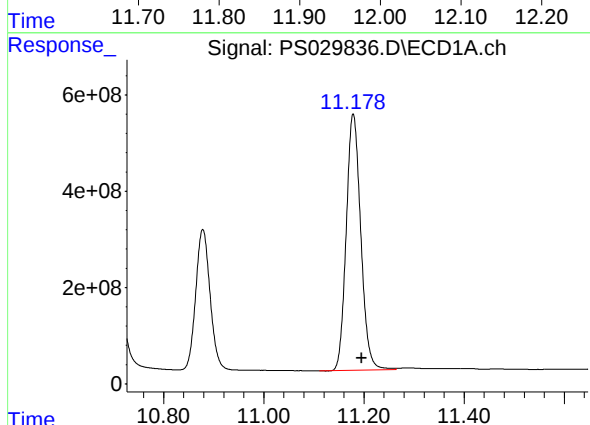
R.T.: 10.696 min
Delta R.T.: -0.017 min
Response: 11230831288
Conc: 724.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



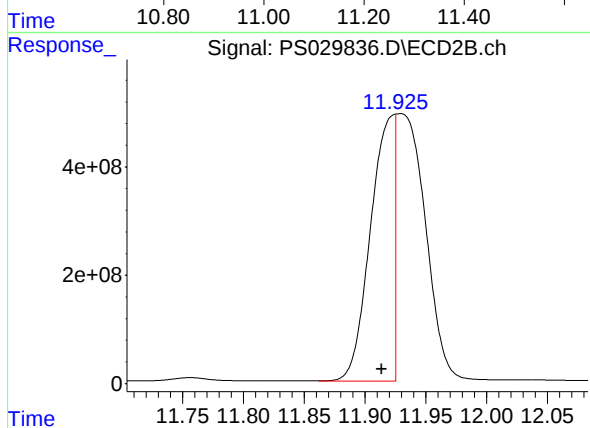
#15 Picloram

R.T.: 11.929 min
Delta R.T.: 0.000 min
Response: 8444207188
Conc: 714.13 ng/ml m



#16 DCPA

R.T.: 11.179 min
Delta R.T.: -0.017 min
Response: 10711496234
Conc: 766.96 ng/ml



#16 DCPA

R.T.: 11.925 min
Delta R.T.: 0.012 min
Response: 6902883109
Conc: 779.93 ng/ml m

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

Continuing Calib Date: 04/17/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 16:01 **Initial Calibration Time(s):** 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	6.95	6.96	6.86	7.06	0.01
2,4-D	8.03	8.04	7.94	8.14	0.01
2,4,5-TP(Silvex)	8.87	8.89	8.79	8.99	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

Continuing Calib Date: 04/17/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 16:01 **Initial Calibration Time(s):** 17:32 20:44

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.47	7.48	7.38	7.58	0.01
2,4-D	8.67	8.67	8.57	8.77	0.00
2,4,5-TP(Silvex)	9.55	9.55	9.45	9.65	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803 **SAS No.:** Q1803 **SDG NO.:** Q1803

GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/17/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029839.D **Time Analyzed:** 16:01

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	8.872	8.788	8.988	737.760	712.500	3.5
2,4-D	8.028	7.942	8.142	697.010	705.000	-1.1
2,4-DCAA	6.950	6.863	7.063	745.960	750.000	-0.5

CALIBRATION VERIFICATION SUMMARY

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803 SAS No.: Q1803 SDG NO.: Q1803

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/02/2025 04/02/2025

Client Sample No.: CCAL04 Date Analyzed: 04/17/2025

Lab Sample No.: HSTDCCC750 Data File : PS029839.D Time Analyzed: 16:01

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.548	9.451	9.651	734.150	712.500	3.0
2,4-D	8.668	8.571	8.771	662.800	705.000	-6.0
2,4-DCAA	7.473	7.375	7.575	705.980	750.000	-5.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
 Data File : PS029839.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Apr 2025 16:01
 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: Apr 17 23:41:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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	6.950	7.473	1520.9E6	481.1E6	745.959	705.975
Target Compounds							
1) T	Dalapon	2.454	2.530	2300.0E6	1000.5E6	677.980	630.218
2) T	3,5-DICHL...	6.153	6.468	2190.5E6	627.0E6	728.287	649.403
3) T	4-Nitroph...	6.741	7.007	1015.2E6	465.8E6	722.680	656.984
5) T	DICAMBA	7.127	7.659	6095.3E6	2555.2E6	732.439	691.830
6) T	MCPD	7.305	7.766	390.6E6	110.3E6	72.075	65.316
7) T	MCPA	7.447	7.997	520.1E6	143.9E6	71.546m	63.227
8) T	DICHLORPROP	7.807	8.354	1504.6E6	640.0E6	684.080	662.465
9) T	2,4-D	8.028	8.668	1679.5E6	714.8E6	697.007	662.796
10) T	Pentachlo...	8.307	9.170	21740.6E6	13305.4E6	715.033	742.171
11) T	2,4,5-TP ...	8.872	9.548	8569.4E6	5295.4E6	737.763	734.155
12) T	2,4,5-T	9.154	9.954	8635.5E6	4948.8E6	750.627	738.316
13) T	2,4-DB	9.713	10.513	1383.5E6	519.7E6	761.541	700.401
14) T	DINOSEB	10.877	10.888	6136.1E6	3627.4E6	726.855	709.466
15) T	Picloram	10.695	11.922	11108.2E6	8935.8E6	716.640	755.703m
16) T	DCPA	11.178	11.922	10656.4E6	6881.3E6	763.019	777.488m

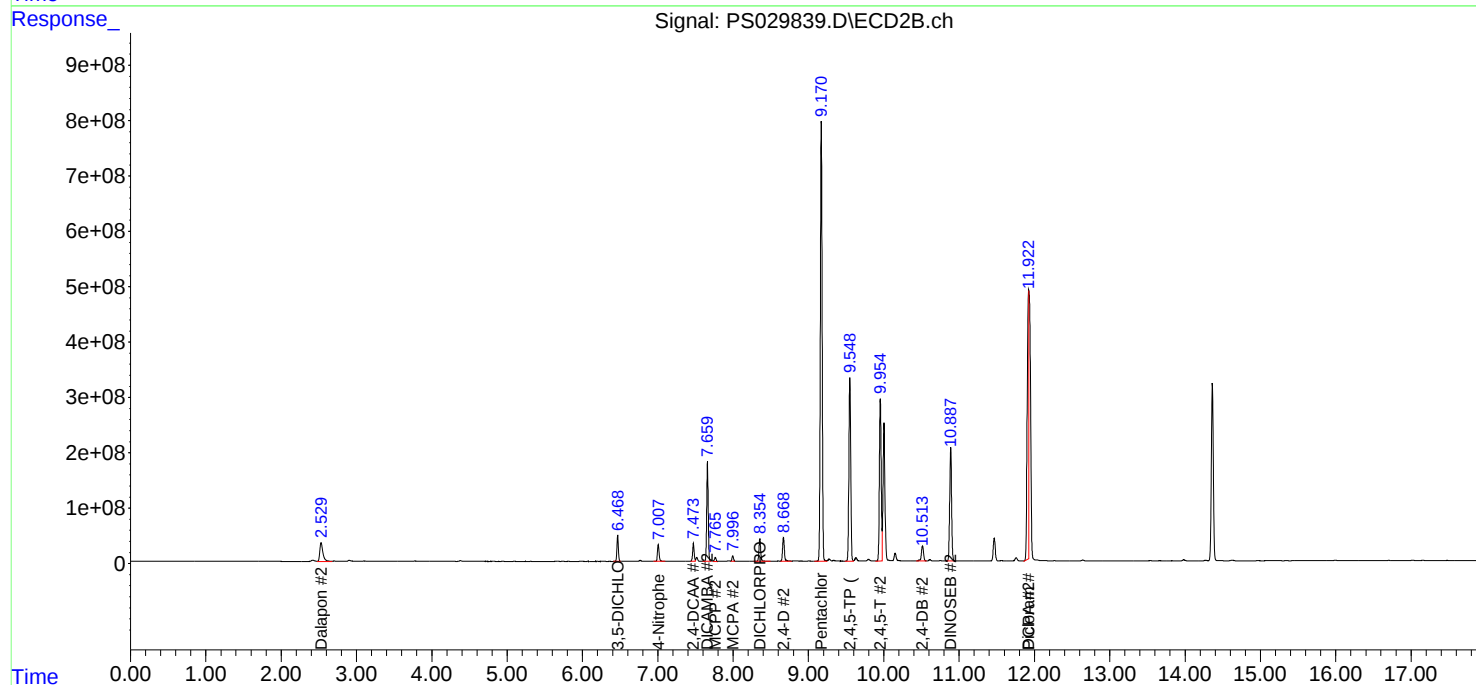
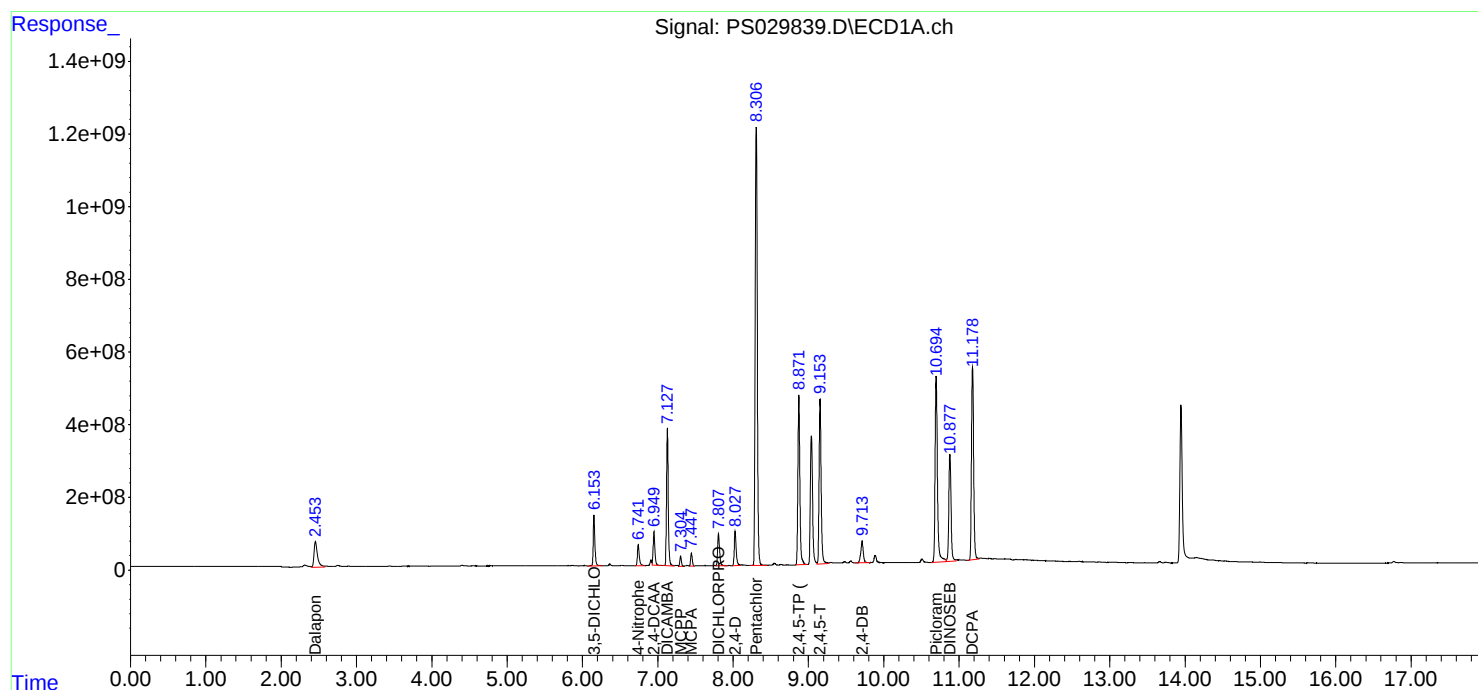
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

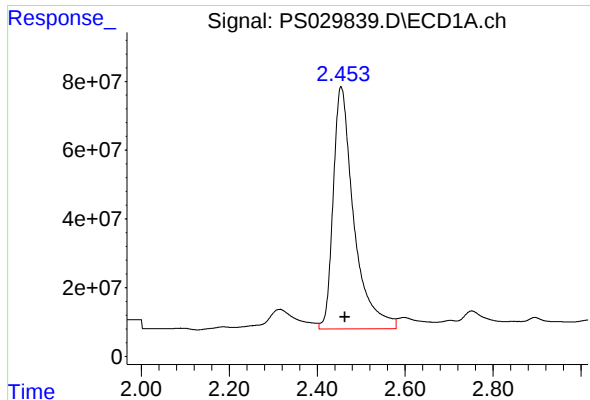
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
Data File : PS029839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2025 16:01
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 23:41:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

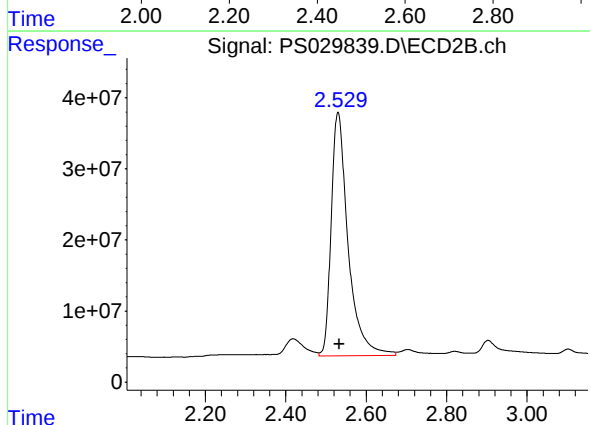




#1 Dalapon

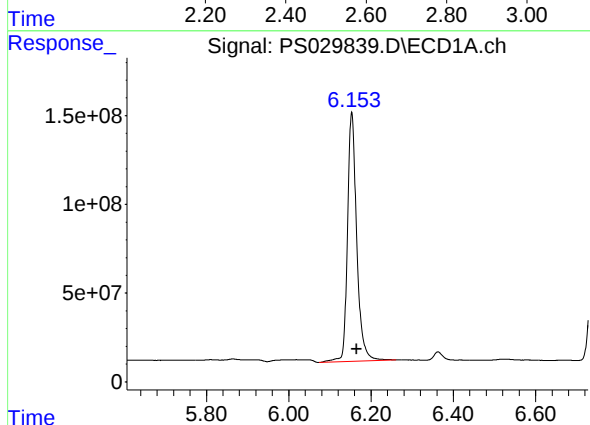
R.T.: 2.454 min
Delta R.T.: -0.009 min
Response: 2299974696
Conc: 677.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



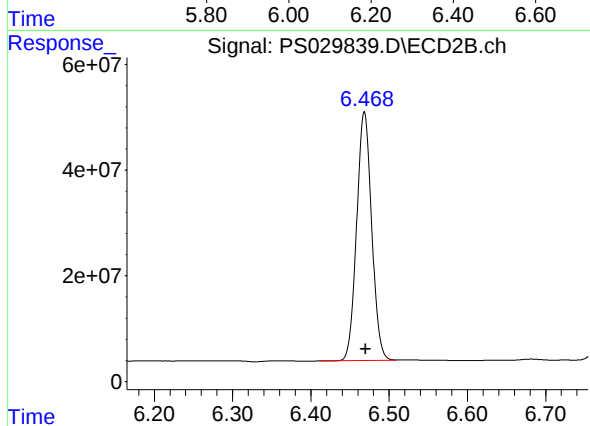
#1 Dalapon

R.T.: 2.530 min
Delta R.T.: -0.003 min
Response: 1000532139
Conc: 630.22 ng/ml



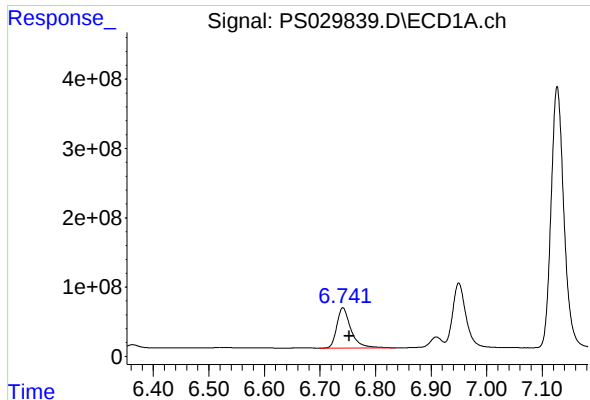
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.153 min
Delta R.T.: -0.012 min
Response: 2190512743
Conc: 728.29 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

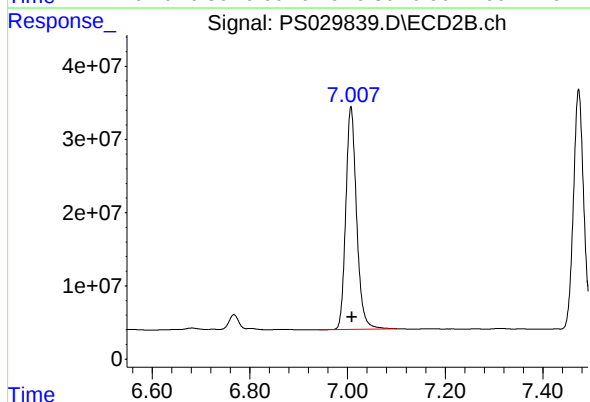
R.T.: 6.468 min
Delta R.T.: -0.002 min
Response: 627035949
Conc: 649.40 ng/ml



#3 4-Nitrophenol

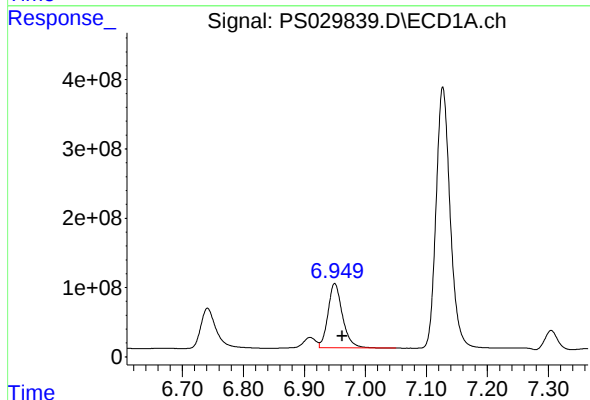
R.T.: 6.741 min
Delta R.T.: -0.012 min
Response: 1015219359
Conc: 722.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



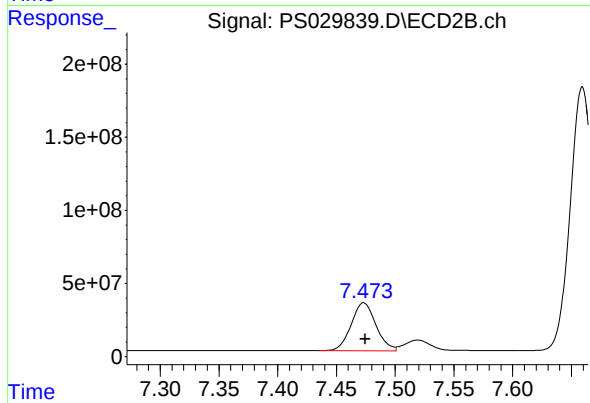
#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 465800400
Conc: 656.98 ng/ml



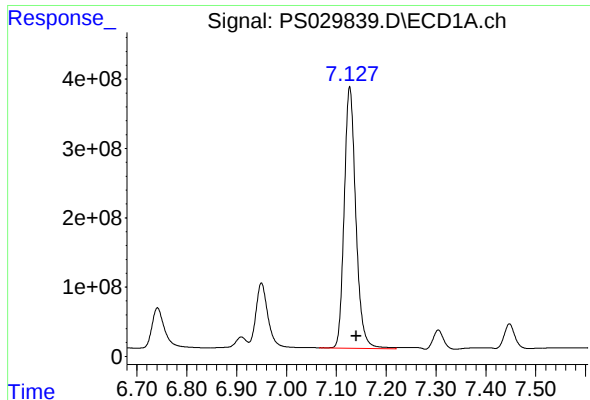
#4 2,4-DCAA

R.T.: 6.950 min
Delta R.T.: -0.013 min
Response: 1520884438
Conc: 745.96 ng/ml



#4 2,4-DCAA

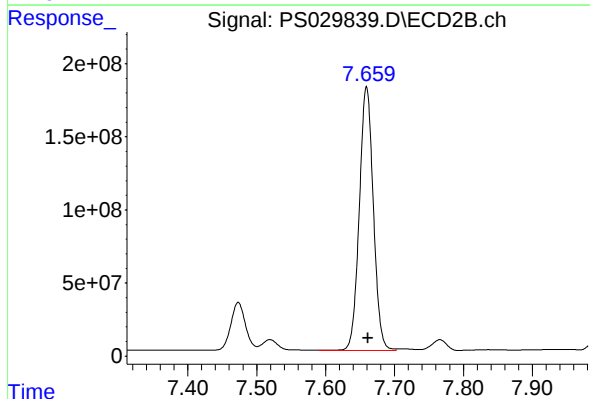
R.T.: 7.473 min
Delta R.T.: -0.002 min
Response: 481131259
Conc: 705.98 ng/ml



#5 DICAMBA

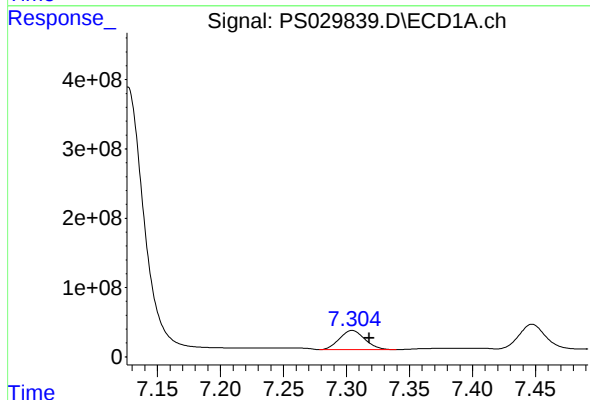
R.T.: 7.127 min
Delta R.T.: -0.013 min
Response: 6095316827
Conc: 732.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



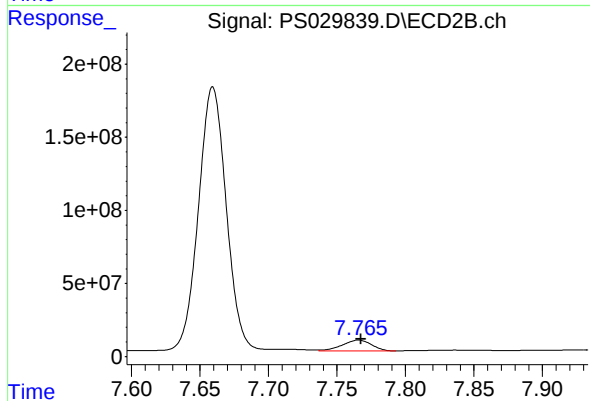
#5 DICAMBA

R.T.: 7.659 min
Delta R.T.: -0.002 min
Response: 2555183118
Conc: 691.83 ng/ml



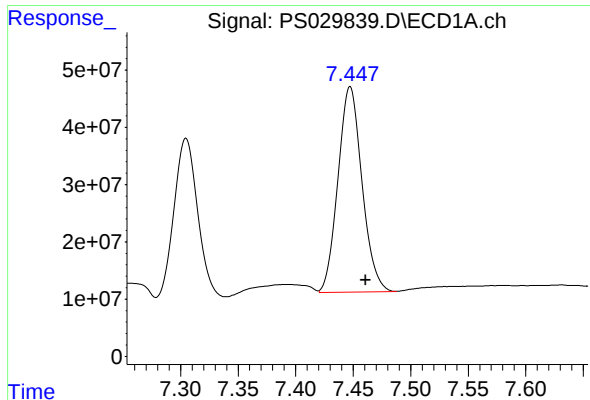
#6 MCPP

R.T.: 7.305 min
Delta R.T.: -0.014 min
Response: 390634681
Conc: 72.07 ug/ml



#6 MCPP

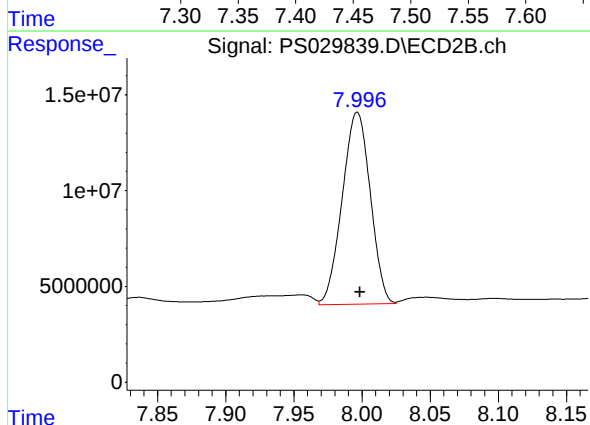
R.T.: 7.766 min
Delta R.T.: -0.002 min
Response: 110283870
Conc: 65.32 ug/ml



#7 MCPA

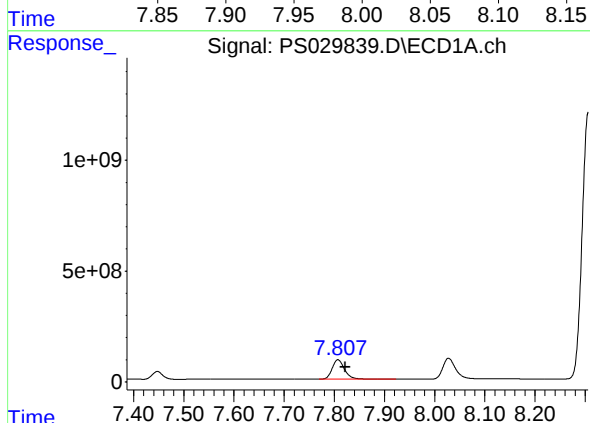
R.T.: 7.447 min
Delta R.T.: -0.014 min
Response: 520072099
Conc: 71.55 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



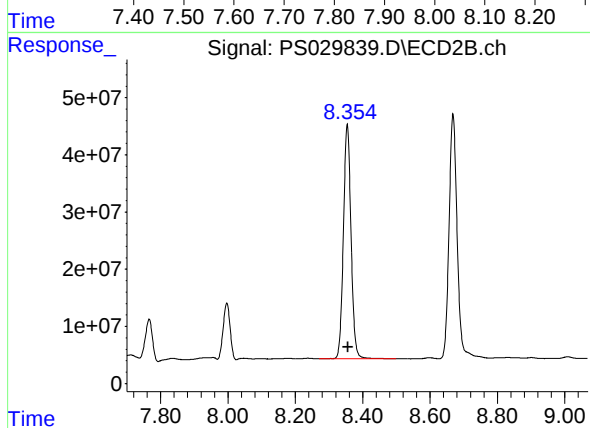
#7 MCPA

R.T.: 7.997 min
Delta R.T.: -0.002 min
Response: 143857244
Conc: 63.23 ug/ml



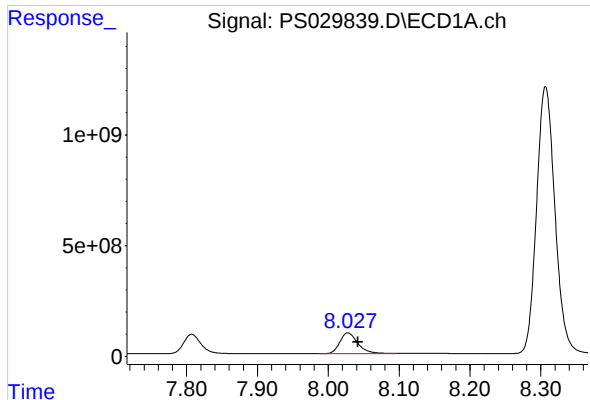
#8 DICHLORPROP

R.T.: 7.807 min
Delta R.T.: -0.015 min
Response: 1504591474
Conc: 684.08 ng/ml



#8 DICHLORPROP

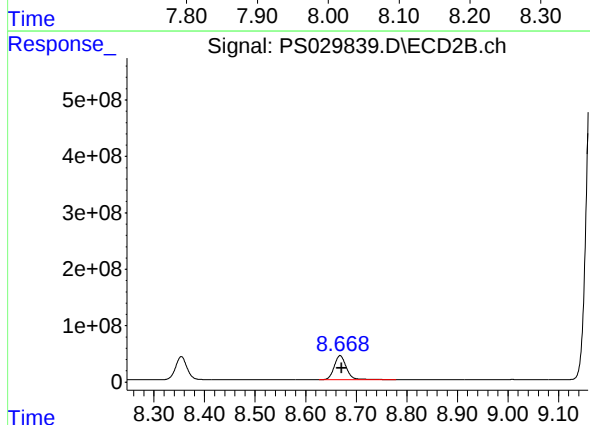
R.T.: 8.354 min
Delta R.T.: -0.002 min
Response: 640042374
Conc: 662.47 ng/ml



#9 2,4-D

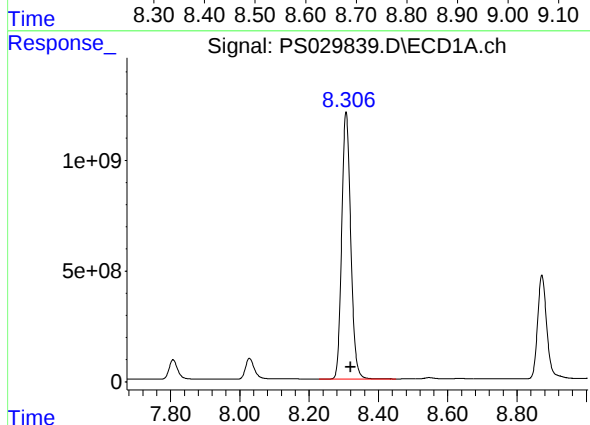
R.T.: 8.028 min
Delta R.T.: -0.014 min
Response: 1679500974
Conc: 697.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



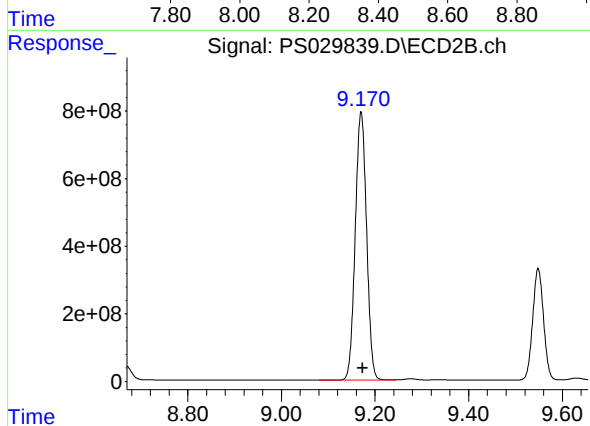
#9 2,4-D

R.T.: 8.668 min
Delta R.T.: -0.003 min
Response: 714801673
Conc: 662.80 ng/ml



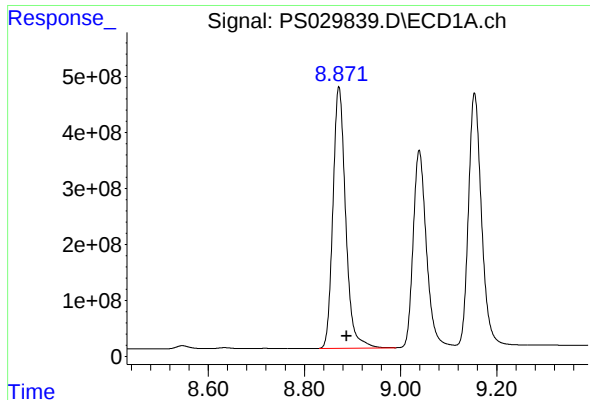
#10 Pentachlorophenol

R.T.: 8.307 min
Delta R.T.: -0.014 min
Response: 21740584856
Conc: 715.03 ng/ml



#10 Pentachlorophenol

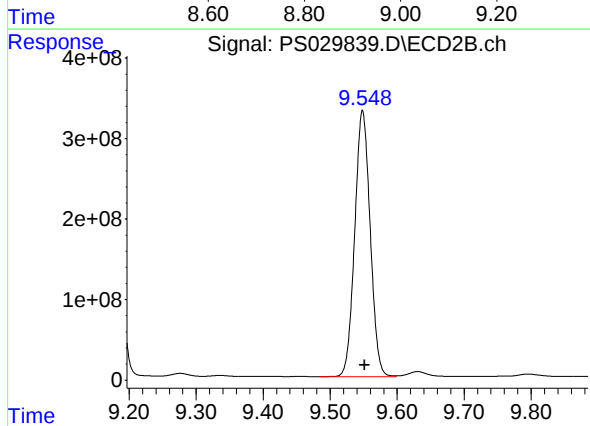
R.T.: 9.170 min
Delta R.T.: -0.003 min
Response: 13305435736
Conc: 742.17 ng/ml



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

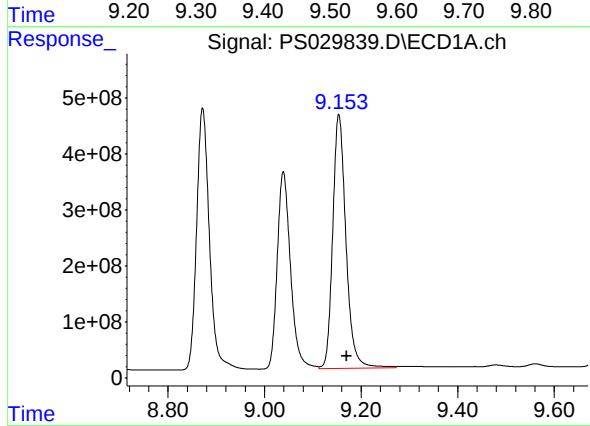
R.T.: 8.872 min
Delta R.T.: -0.016 min
Response: 8569377210
Conc: 737.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



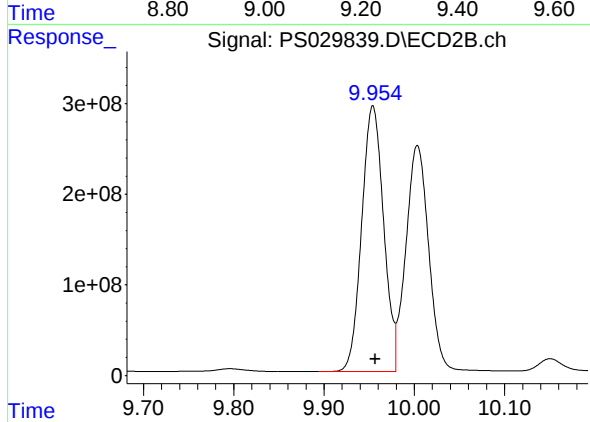
#11 2,4,5-TP (SILVEX)

R.T.: 9.548 min
Delta R.T.: -0.003 min
Response: 5295430202
Conc: 734.15 ng/ml



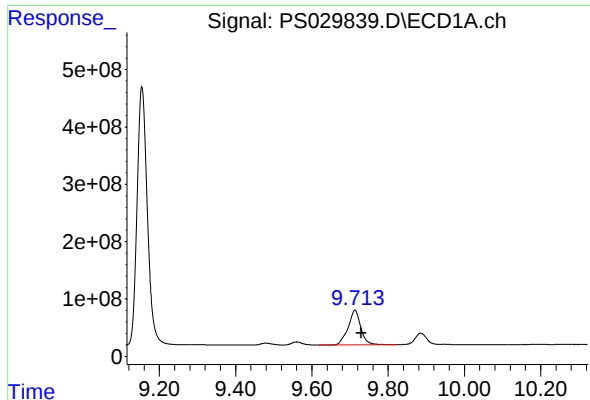
#12 2,4,5-T

R.T.: 9.154 min
Delta R.T.: -0.016 min
Response: 8635534776
Conc: 750.63 ng/ml



#12 2,4,5-T

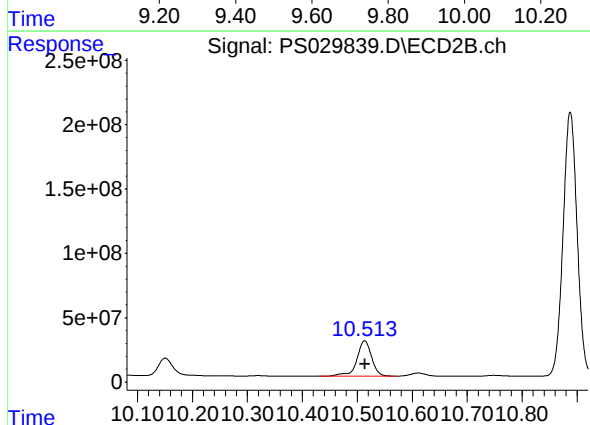
R.T.: 9.954 min
Delta R.T.: -0.003 min
Response: 4948811198
Conc: 738.32 ng/ml



#13 2,4-DB

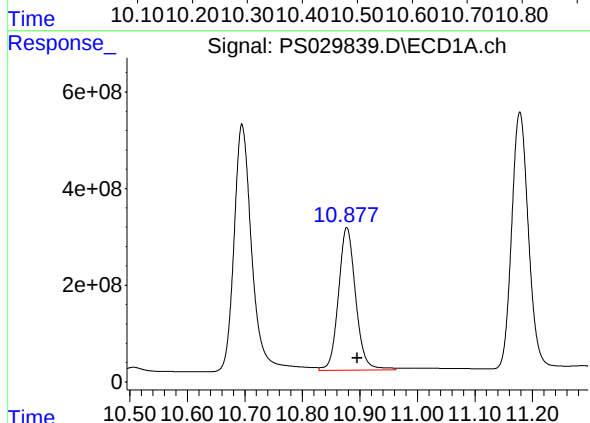
R.T.: 9.713 min
Delta R.T.: -0.016 min
Response: 1383525895
Conc: 761.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



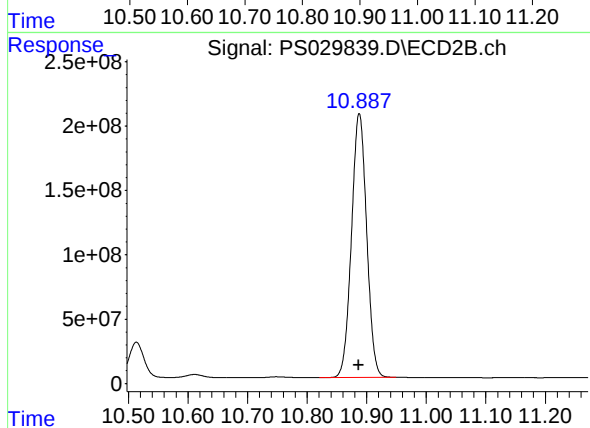
#13 2,4-DB

R.T.: 10.513 min
Delta R.T.: 0.000 min
Response: 519680041
Conc: 700.40 ng/ml



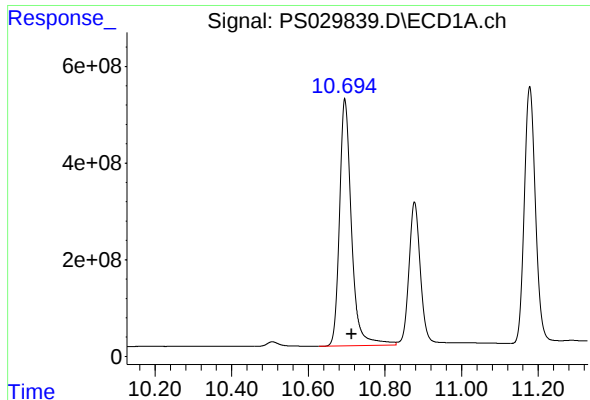
#14 DINOSEB

R.T.: 10.877 min
Delta R.T.: -0.018 min
Response: 6136142032
Conc: 726.86 ng/ml



#14 DINOSEB

R.T.: 10.888 min
Delta R.T.: 0.000 min
Response: 3627361900
Conc: 709.47 ng/ml



#15 Picloram

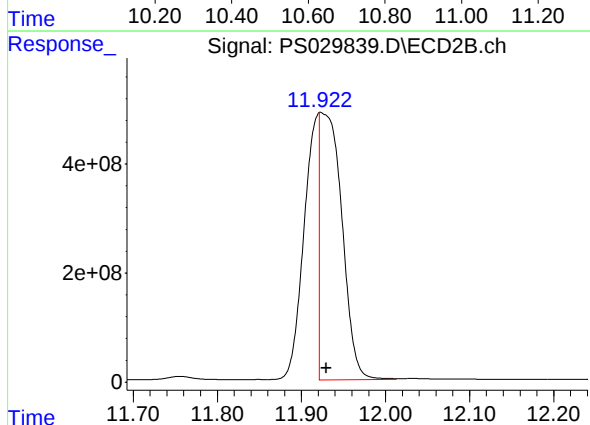
R.T.: 10.695 min
Delta R.T.: -0.018 min
Response: 11108204677
Conc: 716.64 ng/ml

Instrument :

ECD_S

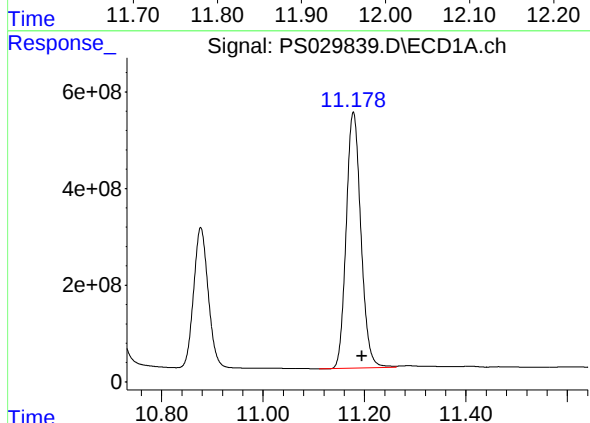
ClientSampleId :

HSTDCCC750



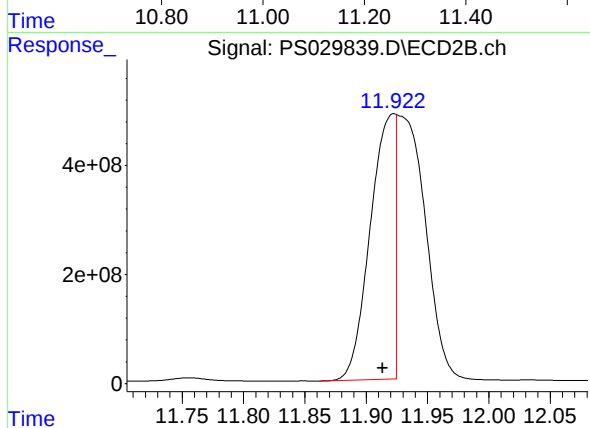
#15 Picloram

R.T.: 11.922 min
Delta R.T.: -0.008 min
Response: 8935755316
Conc: 755.70 ng/ml m



#16 DCPA

R.T.: 11.178 min
Delta R.T.: -0.017 min
Response: 10656410245
Conc: 763.02 ng/ml



#16 DCPA

R.T.: 11.922 min
Delta R.T.: 0.009 min
Response: 6881288271
Conc: 777.49 ng/ml m

Analytical Sequence

Client: Scalamandre – Tully JV	SDG No.: Q1803
Project: NYC DOT Harper Street Yard North	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 04/02/2025 04/02/2025

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	04/02/2025	16:44	PS029656.D	6.96	0.00
HSTDICC200	HSTDICC200	04/02/2025	17:32	PS029657.D	6.96	0.00
HSTDICC500	HSTDICC500	04/02/2025	17:56	PS029658.D	6.96	0.00
HSTDICC750	HSTDICC750	04/02/2025	18:44	PS029659.D	6.96	0.00
HSTDICC1000	HSTDICC1000	04/02/2025	19:32	PS029660.D	6.96	0.00
HSTDICC1500	HSTDICC1500	04/02/2025	20:44	PS029661.D	6.96	0.00
IBLK	IBLK	04/16/2025	15:05	PS029822.D	6.95	0.00
HSTDCCC750	HSTDCCC750	04/16/2025	16:48	PS029823.D	6.95	0.00
PB167608BL	PB167608BL	04/16/2025	17:12	PS029824.D	6.95	0.00
PB167587TB	PB167587TB	04/16/2025	18:01	PS029826.D	6.95	0.00
WEST-BAY	Q1803-01	04/16/2025	18:25	PS029827.D	6.95	0.00
FUEL-MONITORING	Q1803-02	04/16/2025	18:49	PS029828.D	6.95	0.00
WC-A4-01-CMS	Q1800-03MS	04/16/2025	19:37	PS029830.D	6.95	0.00
WC-A4-01-CMSD	Q1800-03MSD	04/16/2025	20:01	PS029831.D	6.95	0.00
IBLK	IBLK	04/16/2025	20:25	PS029832.D	6.95	0.00
HSTDCCC750	HSTDCCC750	04/16/2025	20:49	PS029833.D	6.95	0.00
IBLK	IBLK	04/17/2025	08:37	PS029835.D	6.95	0.00
HSTDCCC750	HSTDCCC750	04/17/2025	09:01	PS029836.D	6.95	0.00
PB167608BS	PB167608BS	04/17/2025	12:55	PS029837.D	6.95	0.00
IBLK	IBLK	04/17/2025	15:37	PS029838.D	6.95	0.00
HSTDCCC750	HSTDCCC750	04/17/2025	16:01	PS029839.D	6.95	0.00

Analytical Sequence

Client: Scalamandre – Tully JV	SDG No.: Q1803
Project: NYC DOT Harper Street Yard North	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 04/02/2025 04/02/2025

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	04/02/2025	16:44	PS029656.D	7.48	0.00
HSTDICC200	HSTDICC200	04/02/2025	17:32	PS029657.D	7.48	0.00
HSTDICC500	HSTDICC500	04/02/2025	17:56	PS029658.D	7.48	0.00
HSTDICC750	HSTDICC750	04/02/2025	18:44	PS029659.D	7.48	0.00
HSTDICC1000	HSTDICC1000	04/02/2025	19:32	PS029660.D	7.48	0.00
HSTDICC1500	HSTDICC1500	04/02/2025	20:44	PS029661.D	7.48	0.00
IBLK	IBLK	04/16/2025	15:05	PS029822.D	7.48	0.00
HSTDCCC750	HSTDCCC750	04/16/2025	16:48	PS029823.D	7.48	0.00
PB167608BL	PB167608BL	04/16/2025	17:12	PS029824.D	7.48	0.00
PB167587TB	PB167587TB	04/16/2025	18:01	PS029826.D	7.48	0.00
WEST-BAY	Q1803-01	04/16/2025	18:25	PS029827.D	7.48	0.00
FUEL-MONITORING	Q1803-02	04/16/2025	18:49	PS029828.D	7.48	0.00
WC-A4-01-CMS	Q1800-03MS	04/16/2025	19:37	PS029830.D	7.48	0.00
WC-A4-01-CMSD	Q1800-03MSD	04/16/2025	20:01	PS029831.D	7.48	0.00
IBLK	IBLK	04/16/2025	20:25	PS029832.D	7.48	0.00
HSTDCCC750	HSTDCCC750	04/16/2025	20:49	PS029833.D	7.48	0.00
IBLK	IBLK	04/17/2025	08:37	PS029835.D	7.47	0.00
HSTDCCC750	HSTDCCC750	04/17/2025	09:01	PS029836.D	7.47	0.00
PB167608BS	PB167608BS	04/17/2025	12:55	PS029837.D	7.47	0.00
IBLK	IBLK	04/17/2025	15:37	PS029838.D	7.47	0.00
HSTDCCC750	HSTDCCC750	04/17/2025	16:01	PS029839.D	7.47	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167608BS

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803

SAS No.: Q1803

SDG NO.: Q1803

Lab Sample ID: PB167608BS

Date(s) Analyzed: 04/17/2025 04/17/2025

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	8.87	8.82	8.92	5.40	3.8
	2	9.55	9.50	9.60	5.20	
2,4-D	1	8.03	7.98	8.08	5.20	8
	2	8.67	8.62	8.72	4.80	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-A4-01-CMS

Contract: SCAL01

Lab Code: CHEM Case No.: Q1803

SAS No.: Q1803

SDG NO.: Q1803

Lab Sample ID: Q1800-03MS

Date(s) Analyzed: 04/16/2025 04/16/2025

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	8.03	7.98	8.08	71.3	4.6
	2	8.67	8.62	8.72	68.1	
2,4,5-TP(Silvex)	1	8.88	8.83	8.93	66.5	10
	2	9.55	9.50	9.60	73.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-A4-01-CMSD

Contract: SCAL01

Lab Code: CHEM **Case No.:** Q1803

SAS No.: Q1803

SDG NO.: Q1803

Lab Sample ID: Q1800-03MSD

Date(s) Analyzed: 04/16/2025 04/16/2025

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	8.03	7.98	8.08	70.8	4.6
	2	8.67	8.62	8.72	67.6	
2,4,5-TP(Silvex)	1	8.87	8.82	8.92	66.2	10.7
	2	9.55	9.50	9.60	73.7	



QC SAMPLE DATA

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	
Project:	NYC DOT Harper Street Yard North	Date Received:	
Client Sample ID:	PB167608BL	SDG No.:	Q1803
Lab Sample ID:	PB167608BL	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
PS029824.D	1	04/16/25 08:34	04/16/25 17:12	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	681		39 - 175	136%	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\PS041625\
Data File : PS029824.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 17:12
Operator : AR\AJ
Sample : PB167608BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167608BL

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:20:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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	6.954	7.476	1388.5E6	419.8E6	681.050m	616.019
------	----------	-------	-------	----------	---------	----------	---------

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029824.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 17:12
Operator : AR\AJ
Sample : PB167608BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

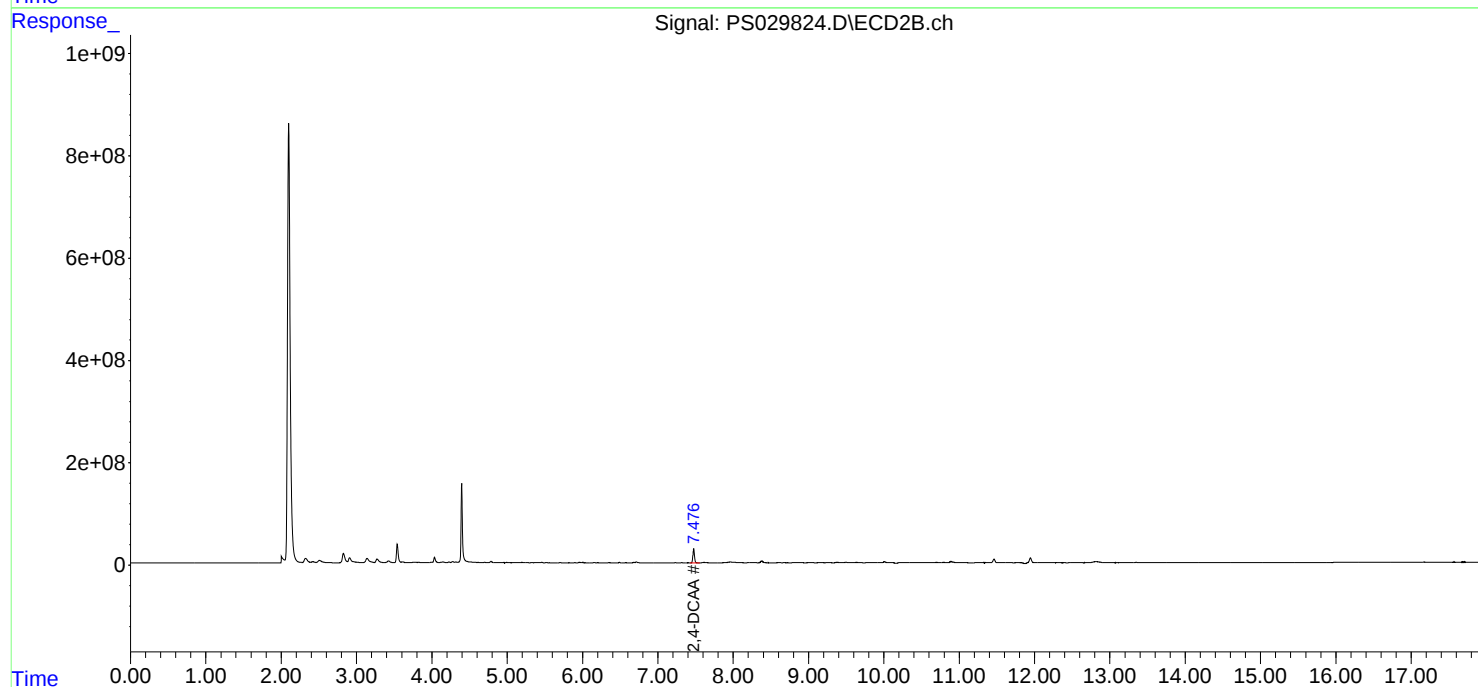
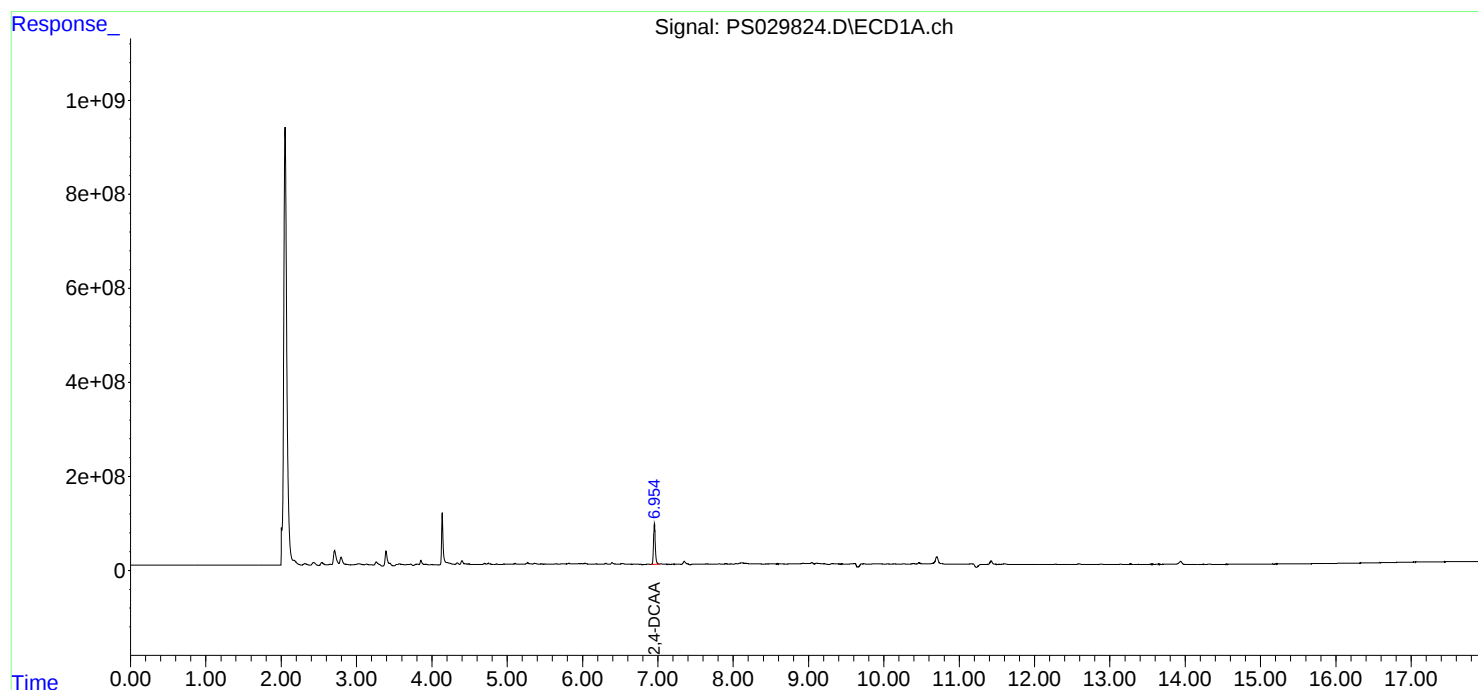
Instrument :
ECD_S
ClientSampleId :
PB167608BL

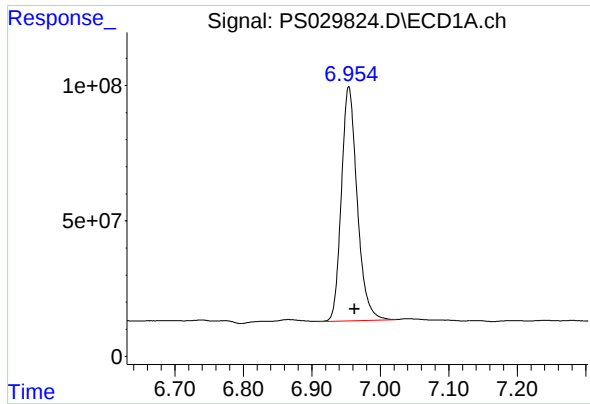
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/17/2025
Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:20:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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





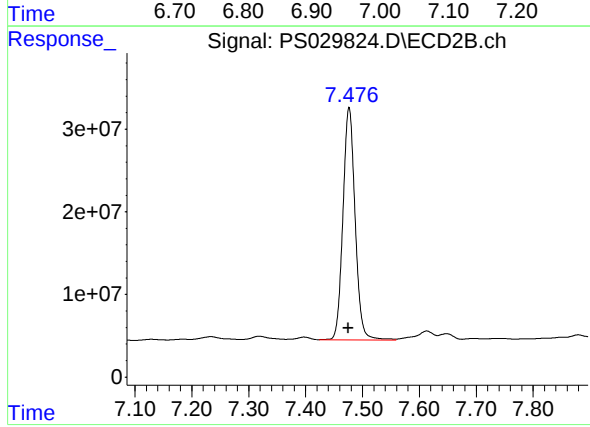
#4 2,4-DCAA

R.T.: 6.954 min
Delta R.T.: -0.009 min
Response: 1388545231
Conc: 681.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BL

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



#4 2,4-DCAA

R.T.: 7.476 min
Delta R.T.: 0.002 min
Response: 419825004
Conc: 616.02 ng/ml

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/02/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/02/25
Client Sample ID:	PIBLK-PS029656.D	SDG No.:	Q1803
Lab Sample ID:	I.BLK-PS029656.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
PS029656.D	1		04/02/25	PS040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	485		39 - 175	97%	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\PS040225\
Data File : PS029656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 16:44
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: Apr 02 22:36:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:58:31 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	6.963	7.475	971.0E6	330.4E6	476.239	484.848
------	----------	-------	-------	---------	---------	---------	---------

Target Compounds

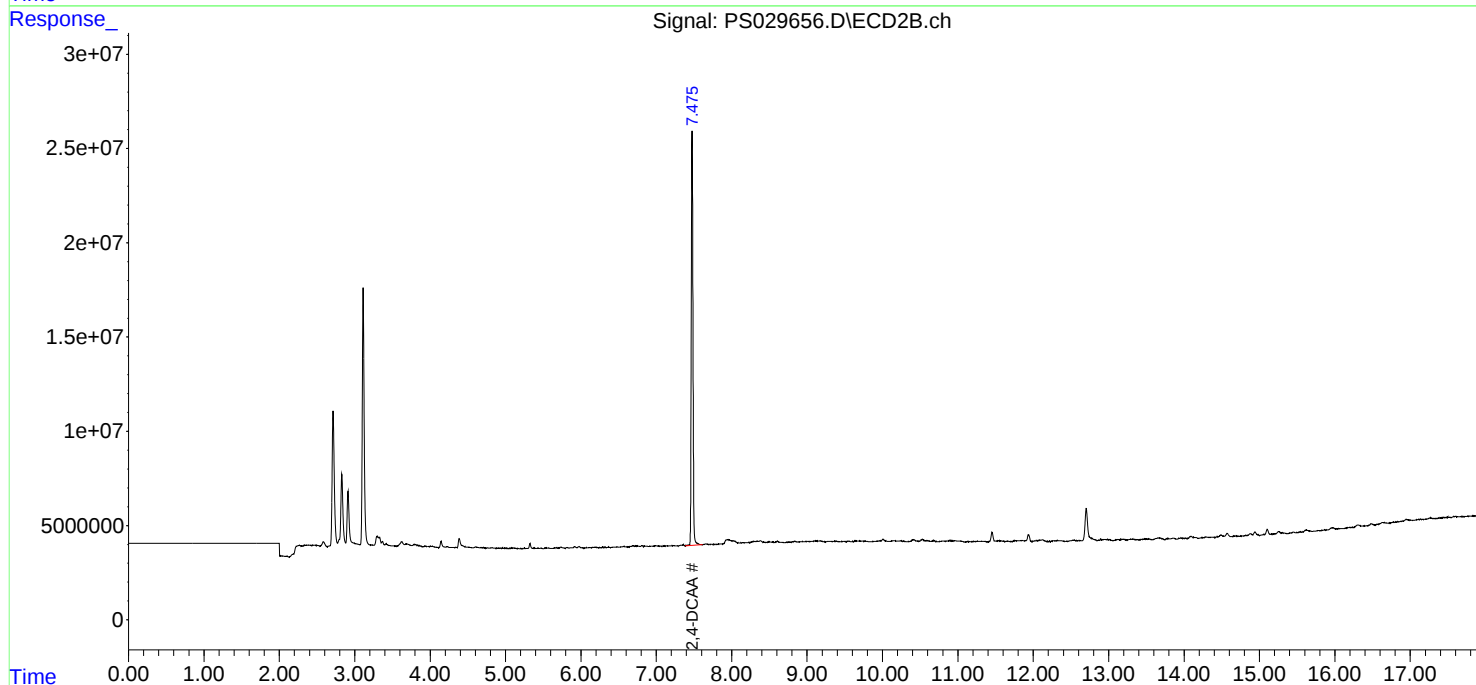
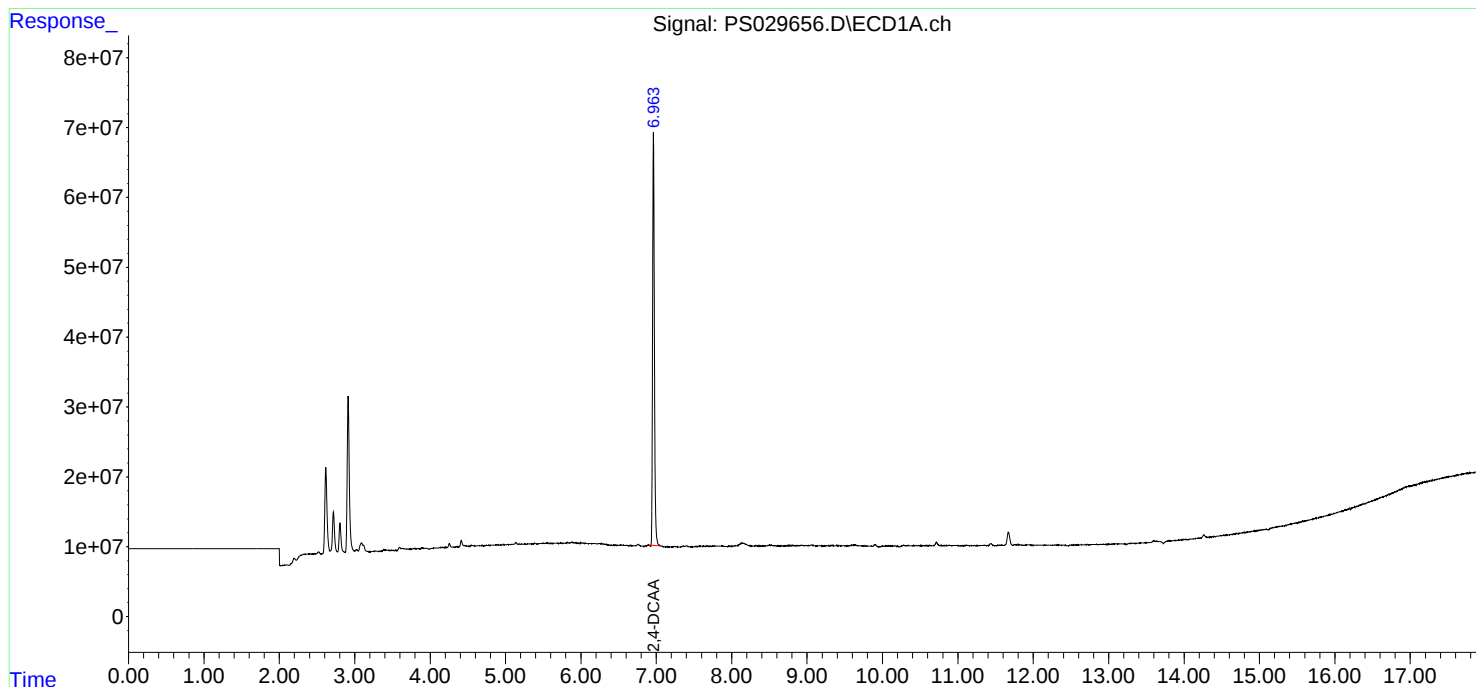
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

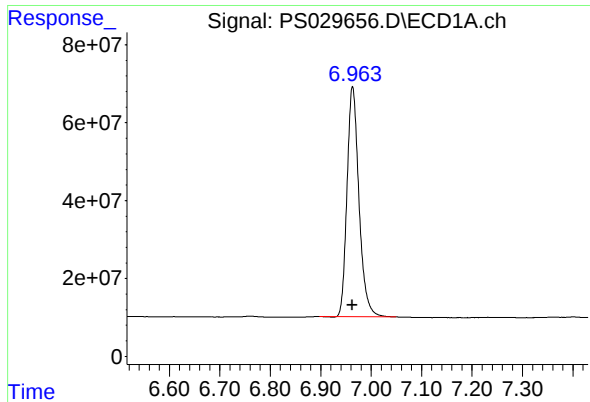
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 16:44
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 02 22:36:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 21:58:31 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

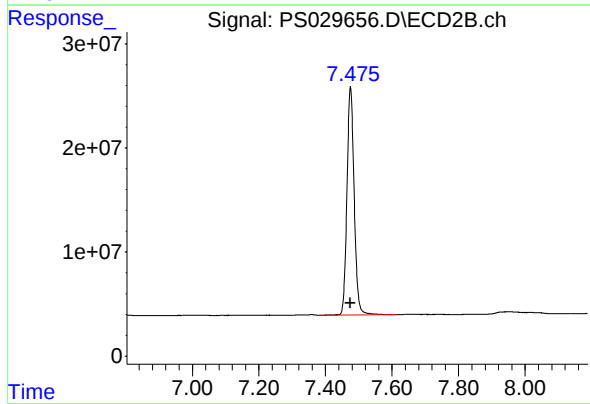




#4 2,4-DCAA

R.T.: 6.963 min
Delta R.T.: 0.000 min
Response: 970970961
Conc: 476.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.475 min
Delta R.T.: 0.000 min
Response: 330430379
Conc: 484.85 ng/ml

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/16/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/16/25
Client Sample ID:	PIBLK-PS029822.D	SDG No.:	Q1803
Lab Sample ID:	I.BLK-PS029822.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
PS029822.D	1		04/16/25	ps041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	581		39 - 175	116%	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\PS041625\
 Data File : PS029822.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 15:05
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:32:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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
----------	------	------	--------	--------	-------	-------

System Monitoring Compounds

4) S	2,4-DCAA	6.953	7.476	1184.6E6	373.0E6	581.019	547.364
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

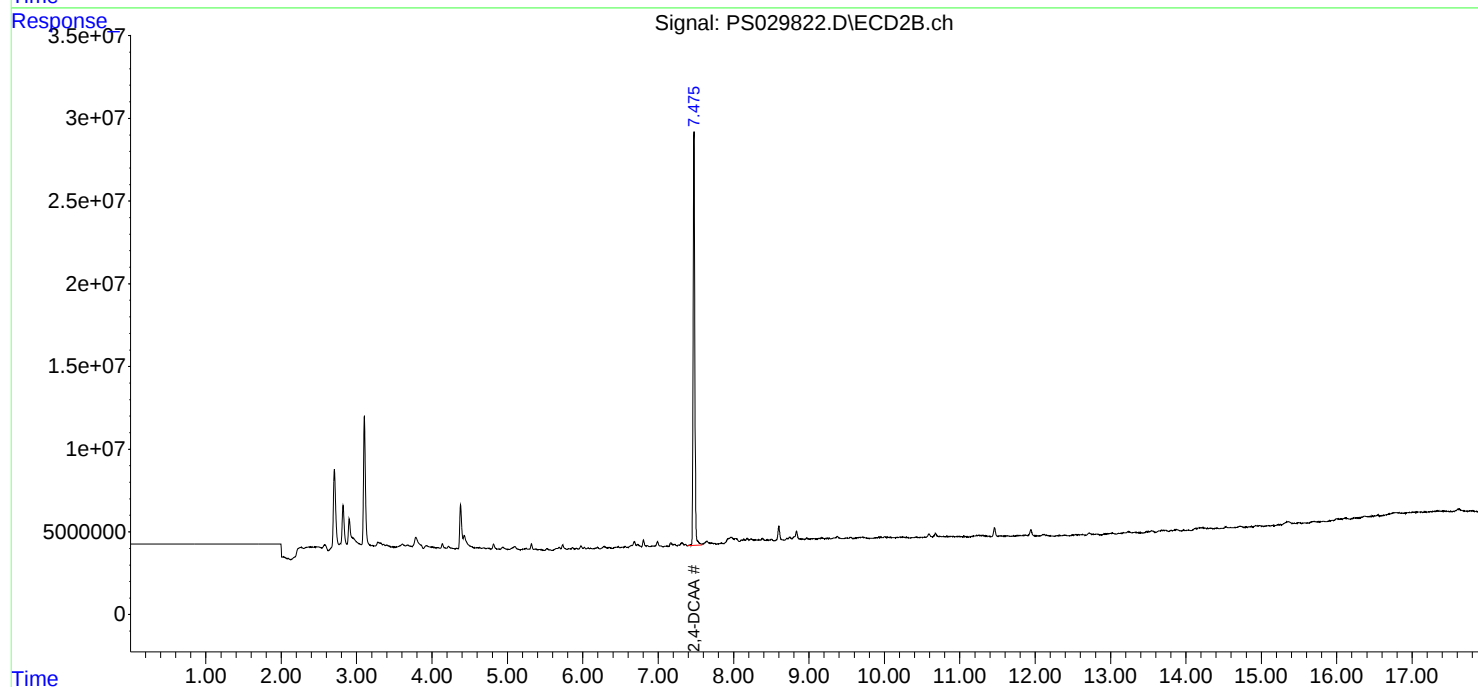
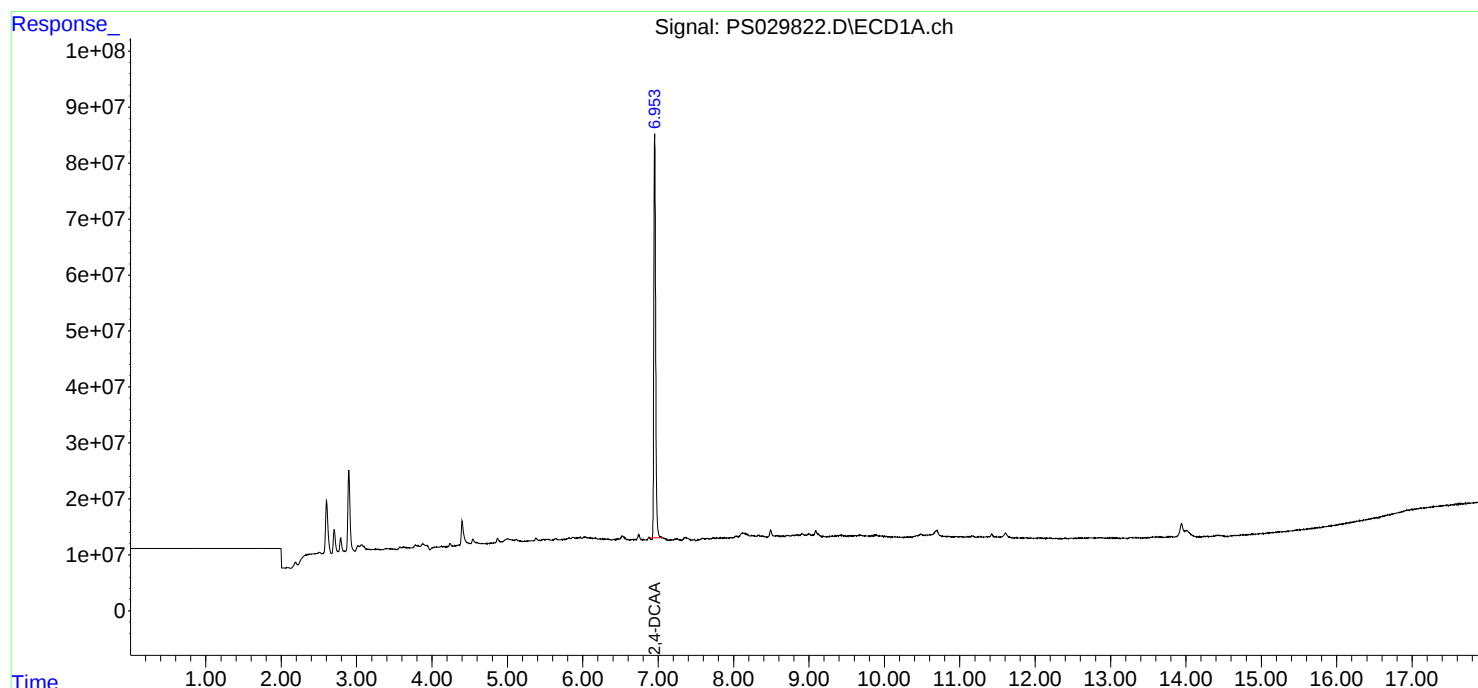
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

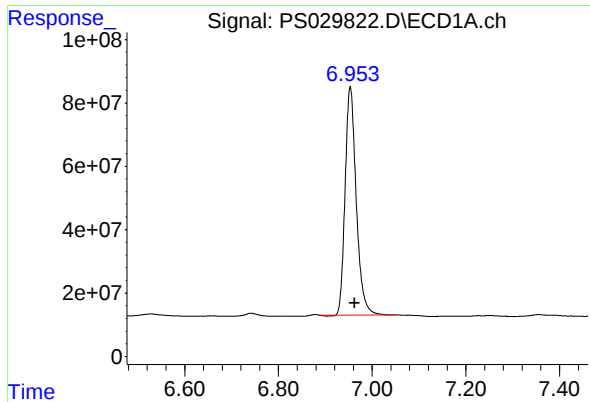
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029822.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 15:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:32:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

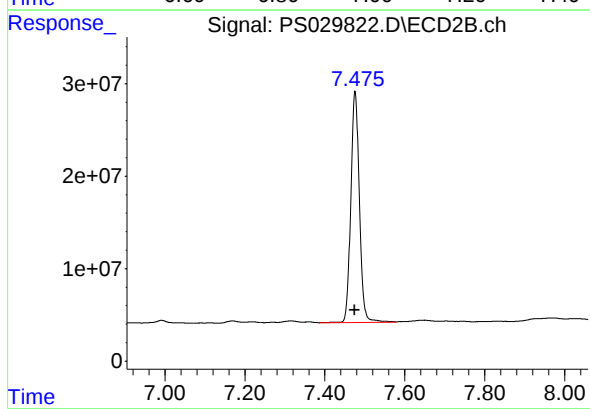




#4 2,4-DCAA

R.T.: 6.953 min
Delta R.T.: -0.009 min
Response: 1184598674
Conc: 581.02 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.476 min
Delta R.T.: 0.000 min
Response: 373035775
Conc: 547.36 ng/ml

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/16/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/16/25
Client Sample ID:	PIBLK-PS029832.D	SDG No.:	Q1803
Lab Sample ID:	I.BLK-PS029832.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
PS029832.D	1		04/16/25	ps041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	567		39 - 175	113%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
 Data File : PS029832.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 20:25
 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: Apr 17 01:24:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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
----------	------	------	--------	--------	-------	-------

System Monitoring Compounds

4) S	2,4-DCAA	6.952	7.475	1156.9E6	362.3E6	567.438	531.655
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

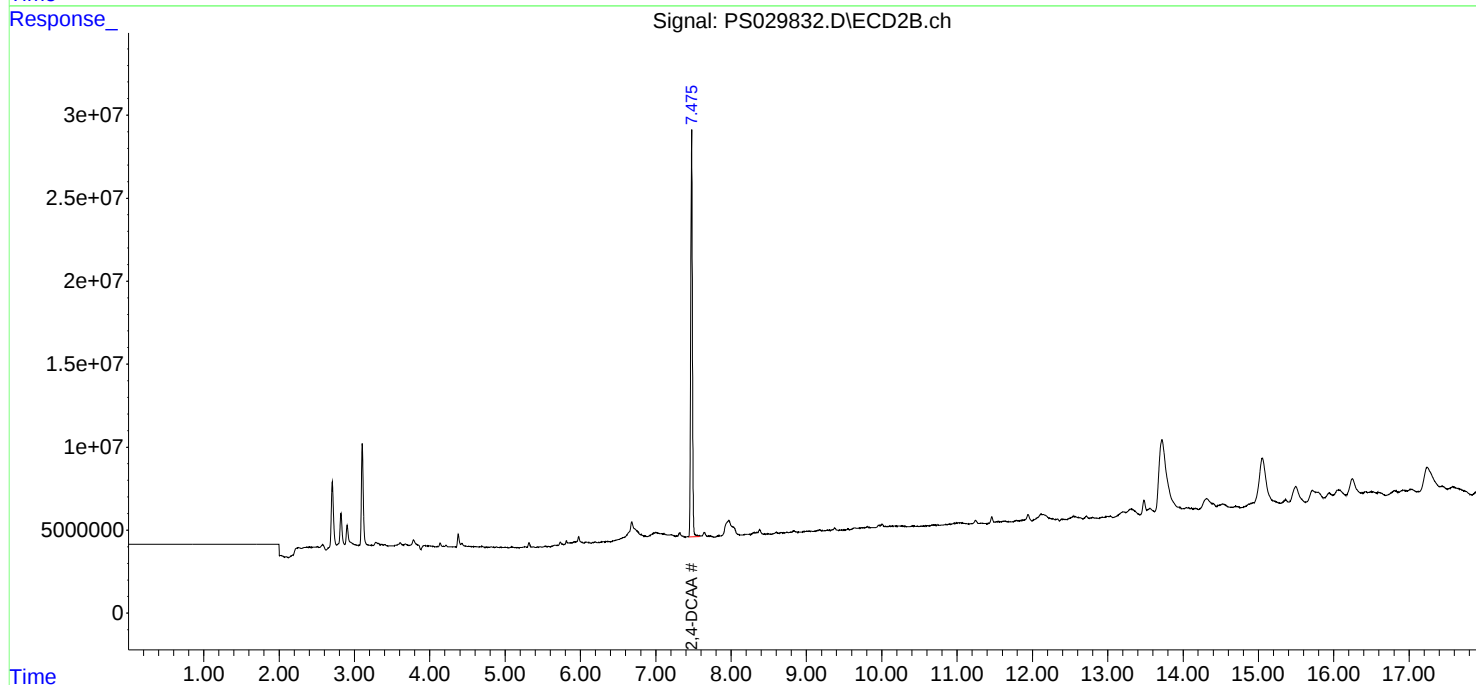
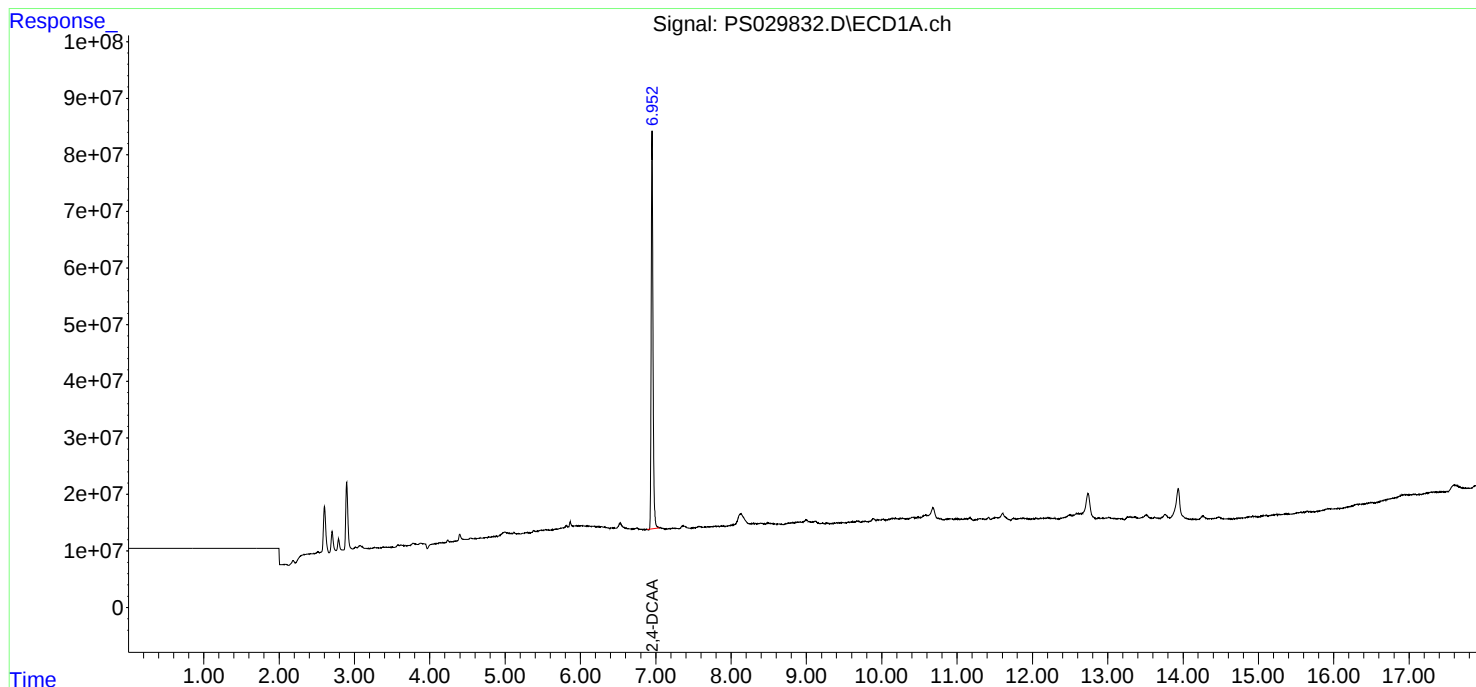
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

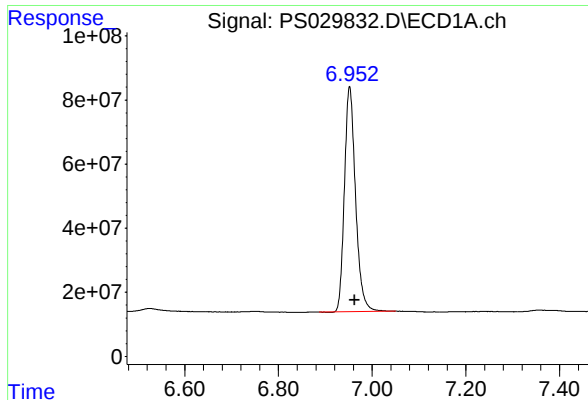
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 20:25
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:24:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

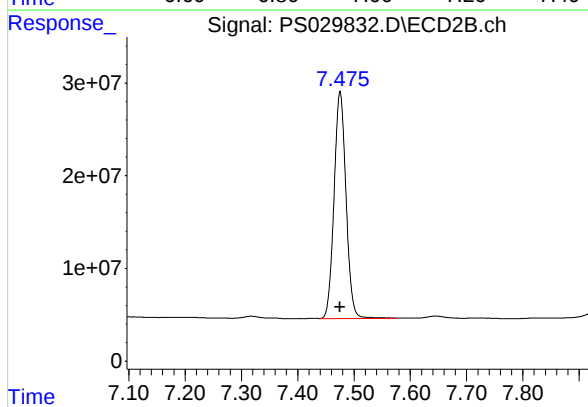




#4 2,4-DCAA

R.T.: 6.952 min
Delta R.T.: -0.011 min
Response: 1156909010
Conc: 567.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.475 min
Delta R.T.: 0.000 min
Response: 362329773
Conc: 531.66 ng/ml

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/17/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/17/25
Client Sample ID:	PIBLK-PS029835.D	SDG No.:	Q1803
Lab Sample ID:	I.BLK-PS029835.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
PS029835.D	1		04/17/25	ps041725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	558		39 - 175	112%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
Data File : PS029835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2025 08:37
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: Apr 17 23:41:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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	6.950	7.473	1137.8E6	355.8E6	558.049m	522.114m
------	----------	-------	-------	----------	---------	----------	----------

Target Compounds

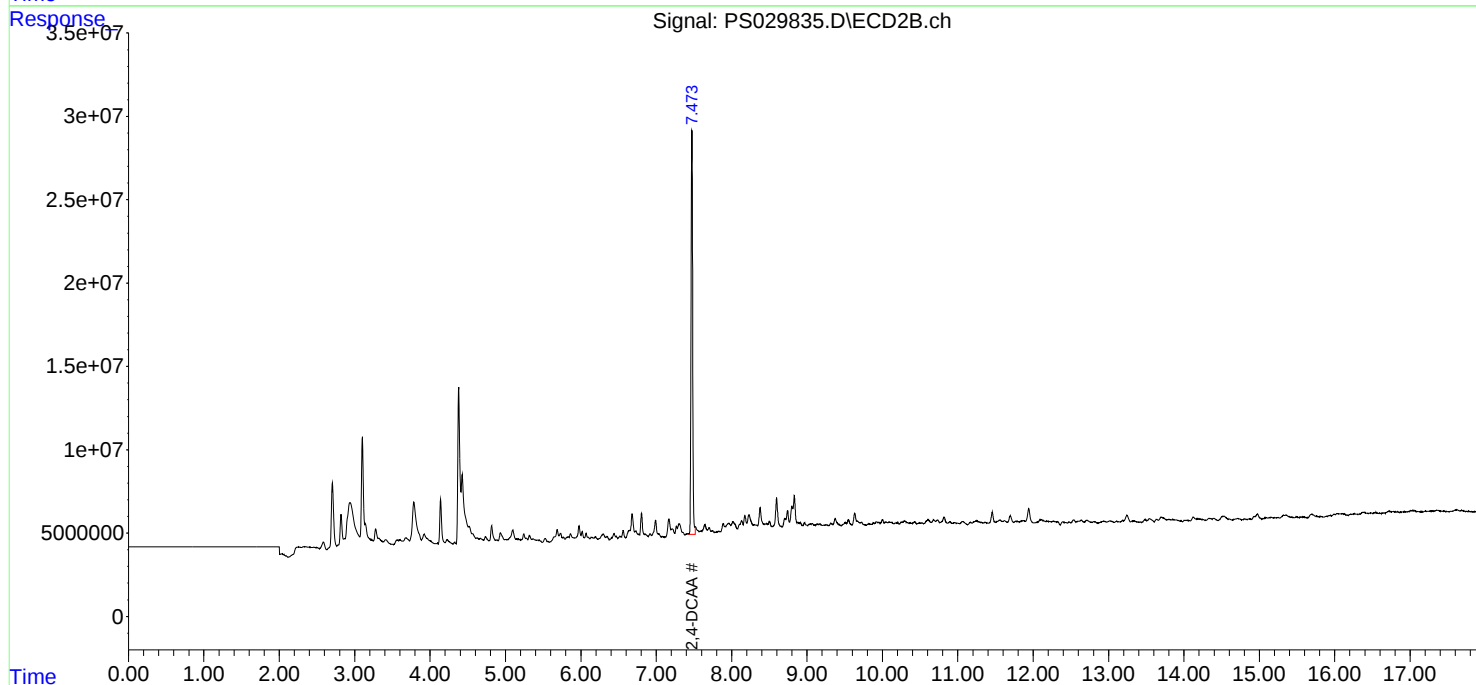
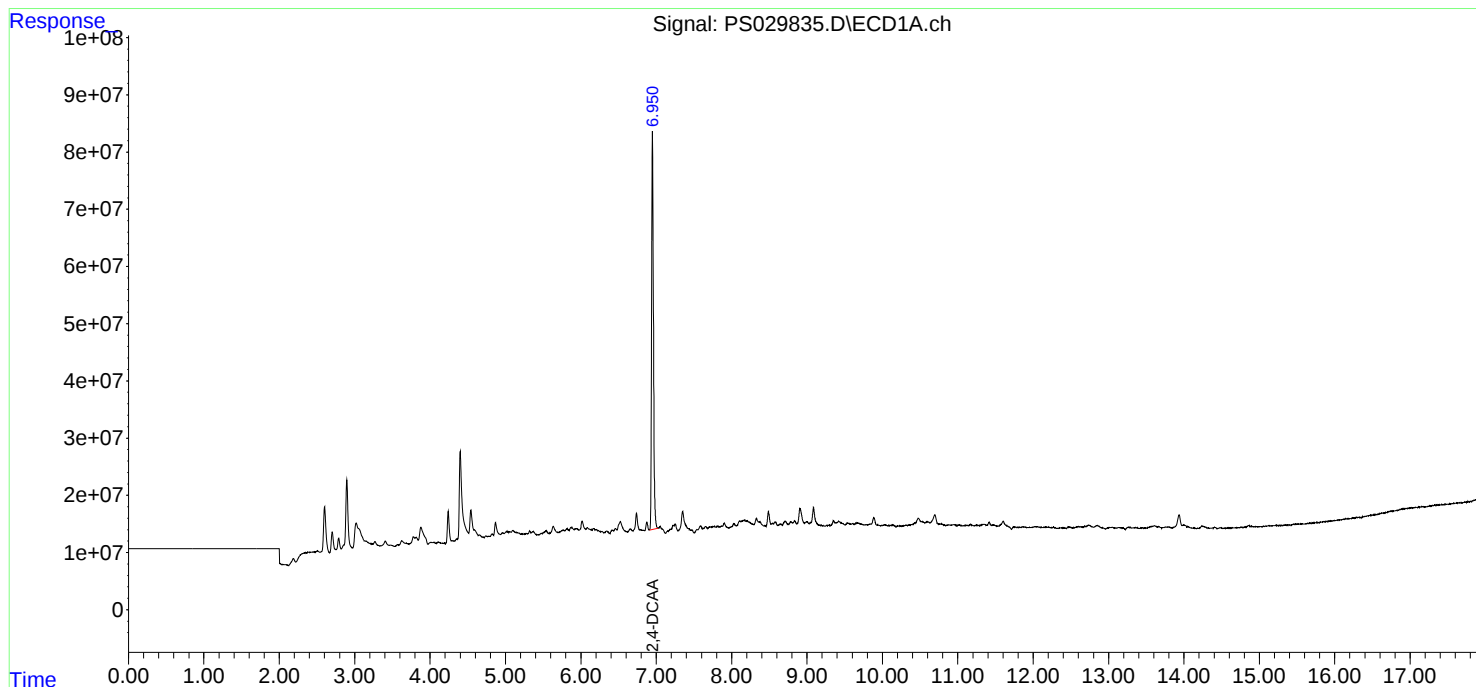
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

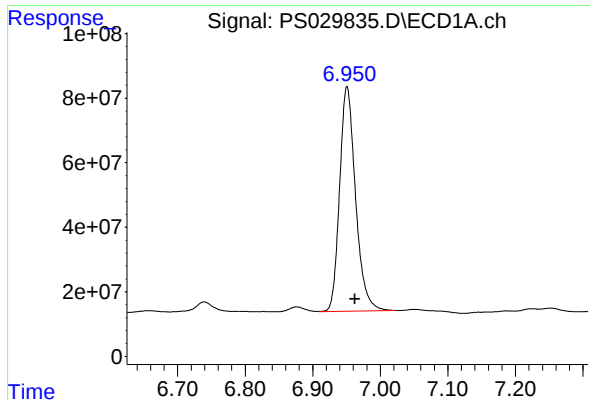
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
Data File : PS029835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2025 08:37
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 23:41:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

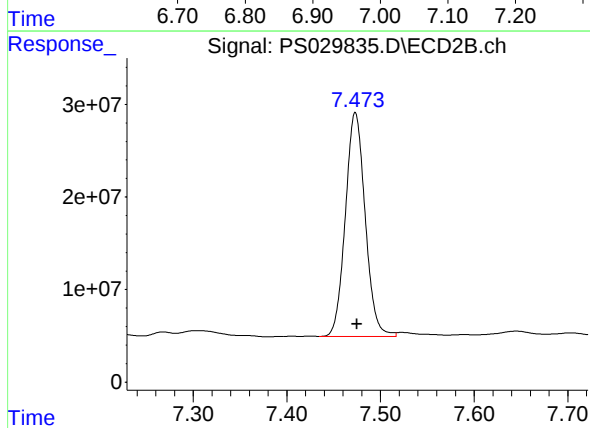




#4 2,4-DCAA

R.T.: 6.950 min
Delta R.T.: -0.012 min
Response: 1137767867
Conc: 558.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.473 min
Delta R.T.: -0.002 min
Response: 355827356
Conc: 522.11 ng/ml m

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/17/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/17/25
Client Sample ID:	PIBLK-PS029838.D	SDG No.:	Q1803
Lab Sample ID:	I.BLK-PS029838.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
PS029838.D	1		04/17/25	ps041725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	532		39 - 175	106%	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\PS041725\
 Data File : PS029838.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Apr 2025 15:37
 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: Apr 17 23:41:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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
----------	------	------	--------	--------	-------	-------

System Monitoring Compounds

4) S	2,4-DCAA	6.950	7.469	1064.4E6	362.7E6	522.057	532.261
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

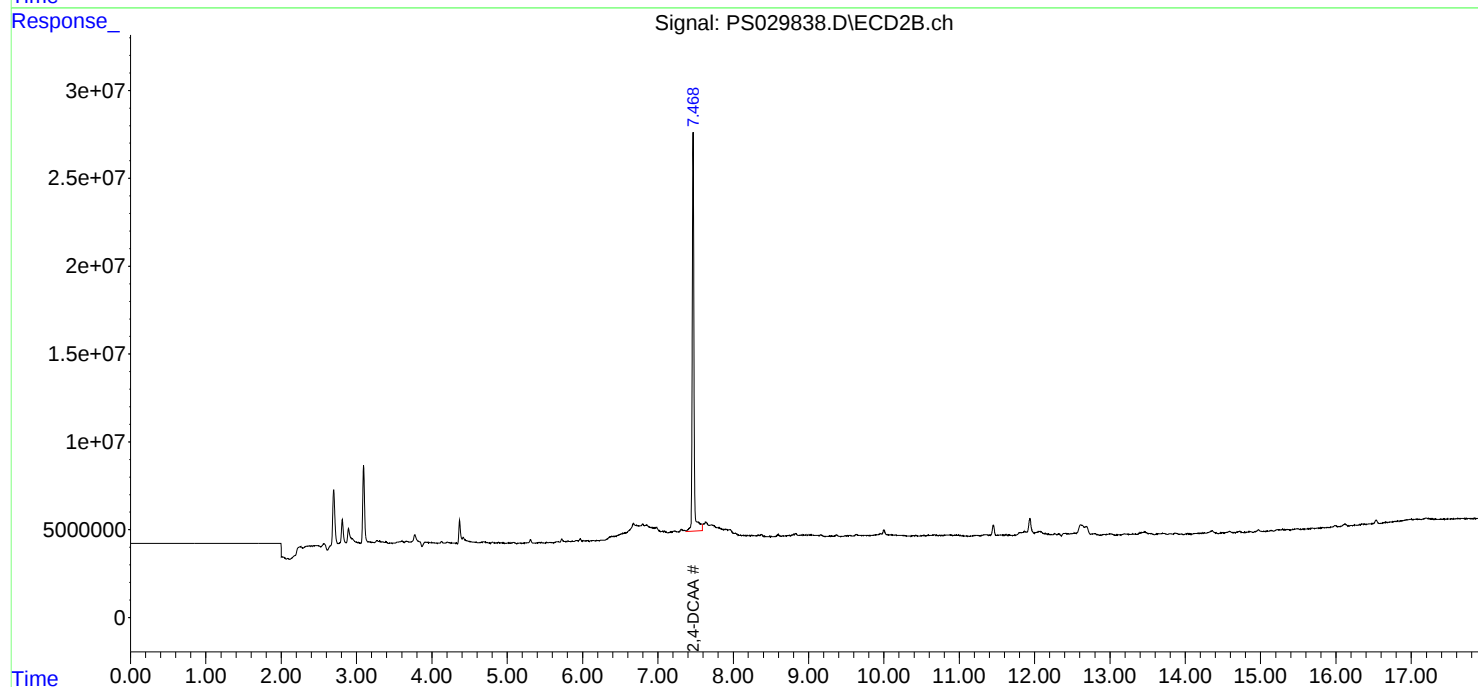
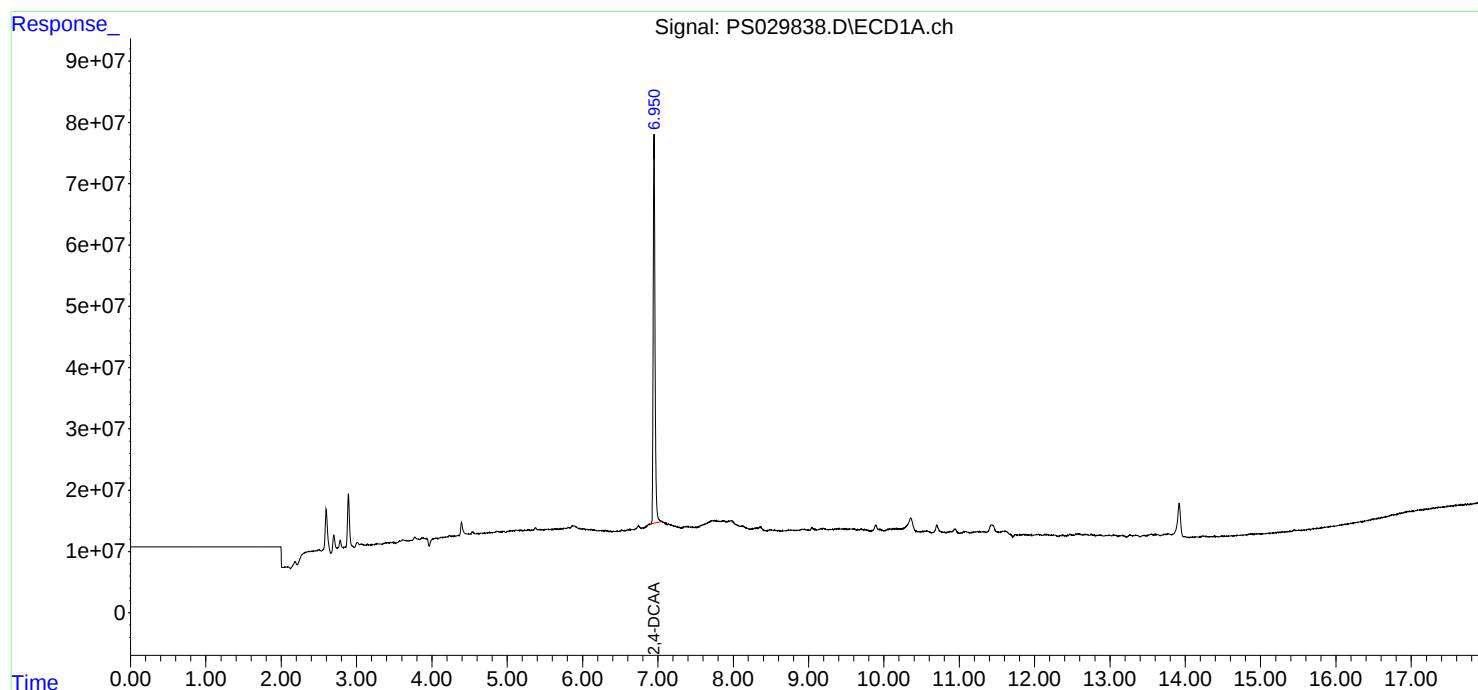
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

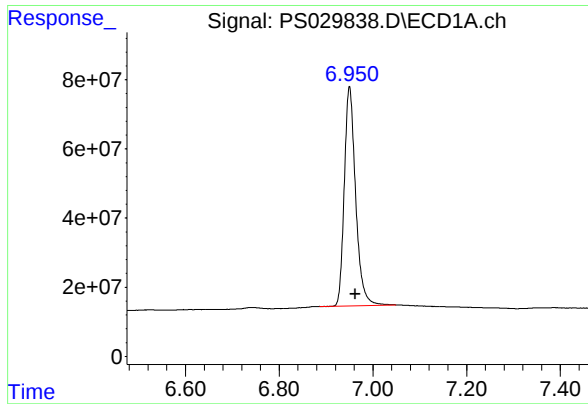
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
Data File : PS029838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2025 15:37
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 23:41:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

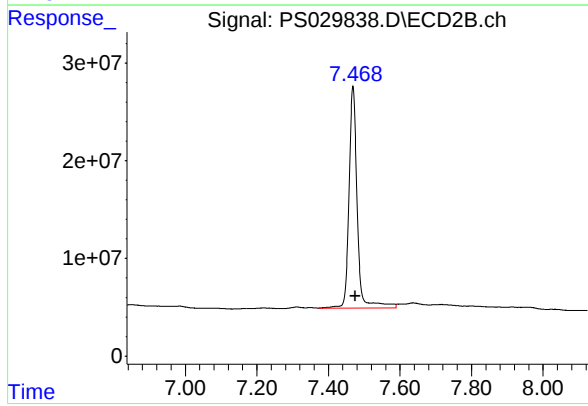




#4 2,4-DCAA

R.T.: 6.950 min
Delta R.T.: -0.013 min
Response: 1064386078
Conc: 522.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.469 min
Delta R.T.: -0.006 min
Response: 362742861
Conc: 532.26 ng/ml

Report of Analysis

Client:	Scalamandre – Tully JV		Date Collected:		
Project:	NYC DOT Harper Street Yard North		Date Received:		
Client Sample ID:	PB167608BS		SDG No.:	Q1803	
Lab Sample ID:	PB167608BS		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
PS029837.D	1	04/16/25 08:34	04/17/25 12:55	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.20		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	550		39 - 175	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\PS041725\
 Data File : PS029837.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Apr 2025 12:55
 Operator : AR\AJ
 Sample : PB167608BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB167608BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 23:41:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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	6.951	7.473	1121.6E6	350.2E6	550.128	513.820
Target Compounds							
1) T	Dalapon	2.454	2.527	1842.8E6	723.0E6	543.210	455.406
2) T	3,5-DICHL...	6.153	6.467	1588.0E6	449.9E6	527.975	465.919
3) T	4-Nitroph...	6.741	7.007	733.8E6	339.1E6	522.385	478.225
5) T	DICAMBA	7.127	7.659	4466.4E6	1802.1E6	536.696	487.926
6) T	MCP	7.304	7.765	264.4E6	75855996	48.779	44.926
7) T	MCPA	7.447	7.995	353.2E6	103.9E6	48.593m	45.660
8) T	DICHLORPROP	7.808	8.353	1115.1E6	464.3E6	506.985	480.604
9) T	2,4-D	8.029	8.669	1260.0E6	519.3E6	522.916	481.557
10) T	Pentachlo...	8.307	9.170	15826.5E6	9477.7E6	520.522	528.660
11) T	2,4,5-TP ...	8.872	9.549	6255.1E6	3757.7E6	538.521	520.959
12) T	2,4,5-T	9.155	9.955	6250.0E6	3538.0E6	543.265	527.841
13) T	2,4-DB	9.714	10.514	990.1E6	372.2E6	544.989	501.677
14) T	DINOSEB	10.878	10.888	4462.6E6	2605.5E6	528.621	509.594
15) T	Picloram	10.698	11.924	8102.7E6	5825.8E6	522.738	492.690m
16) T	DCPA	11.180	11.924	7712.3E6	4725.8E6	552.214	533.944m

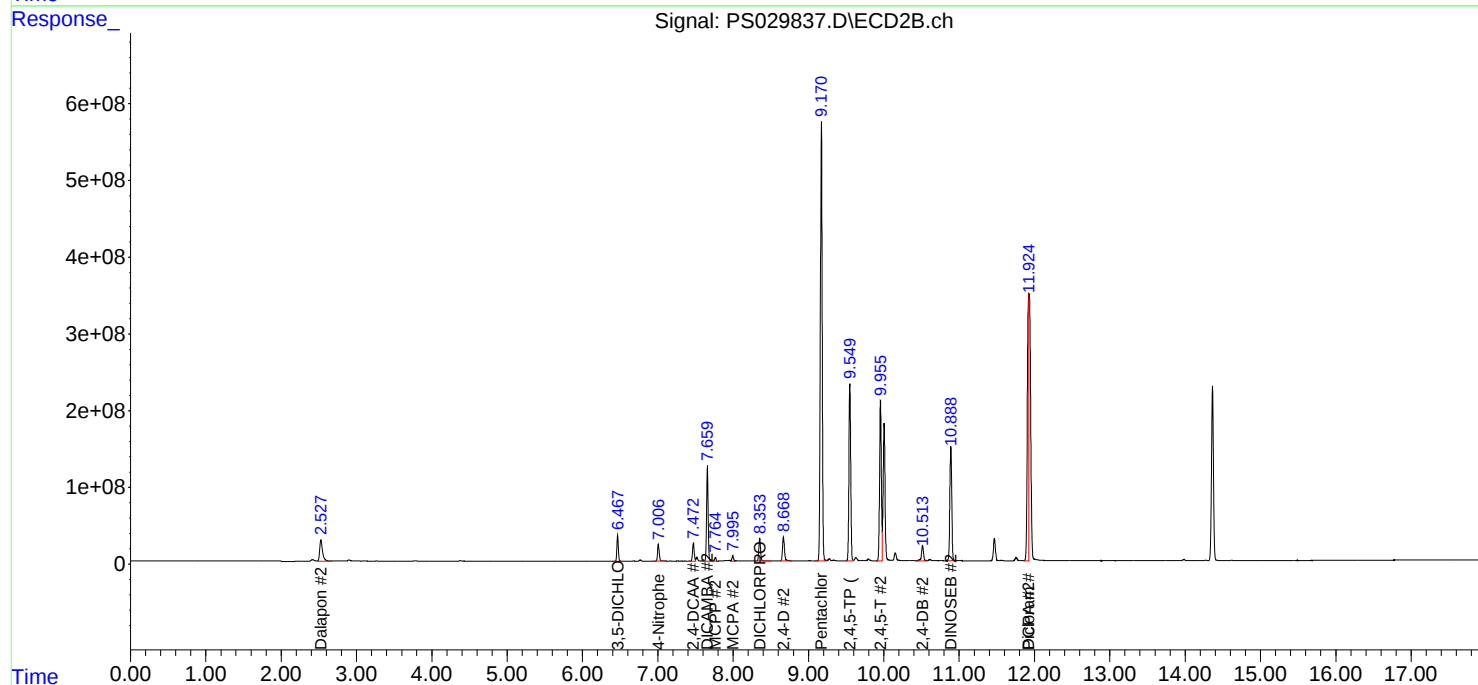
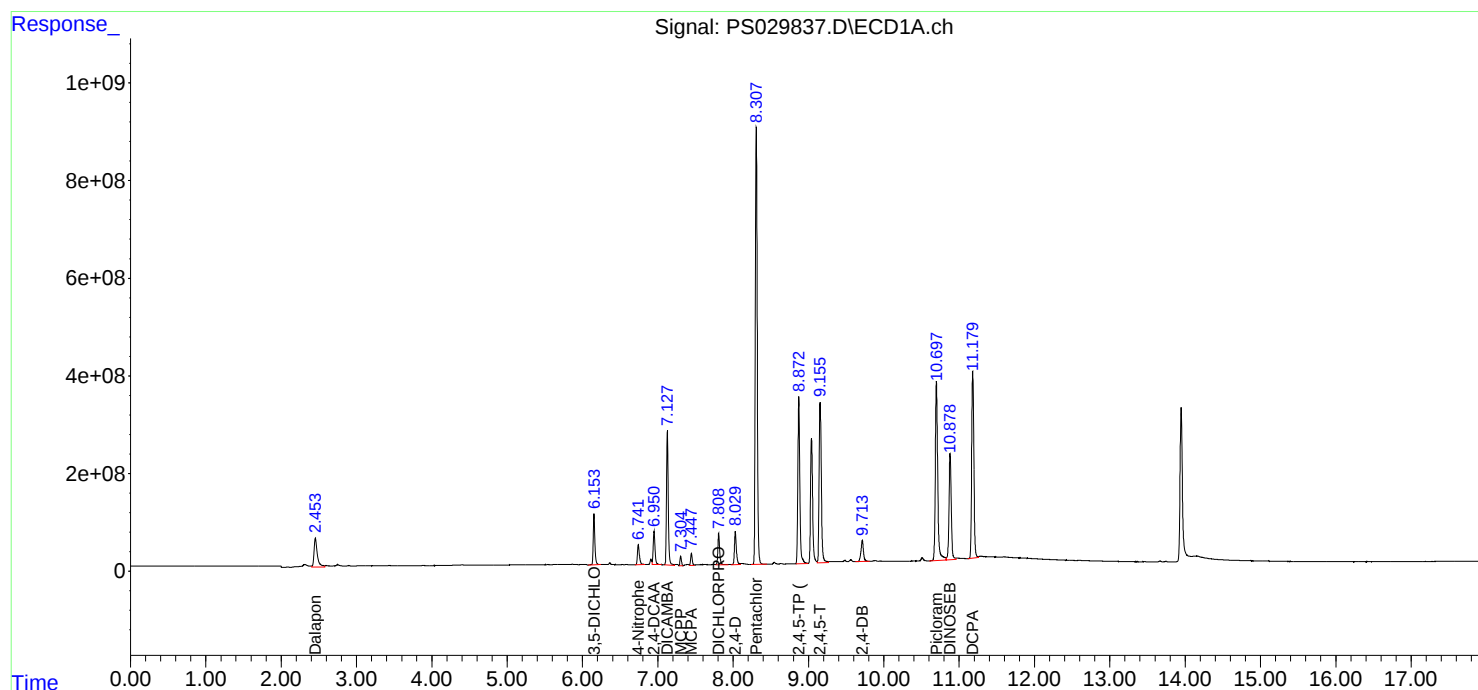
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

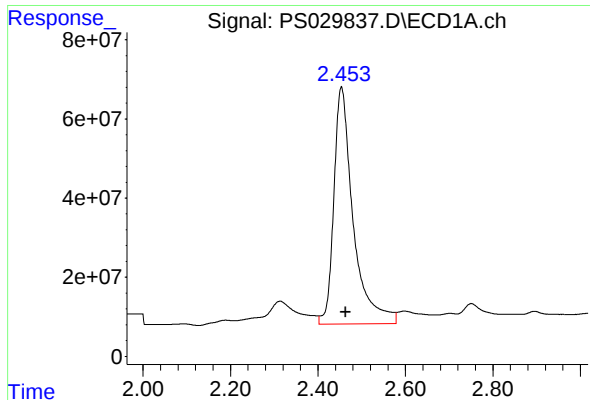
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
Data File : PS029837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2025 12:55
Operator : AR\AJ
Sample : PB167608BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167608BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 23:41:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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

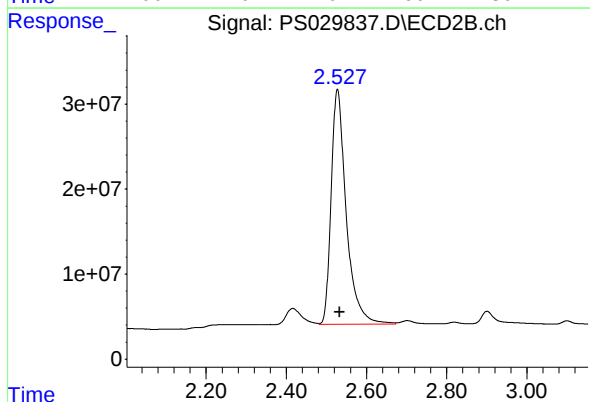




#1 Dalapon

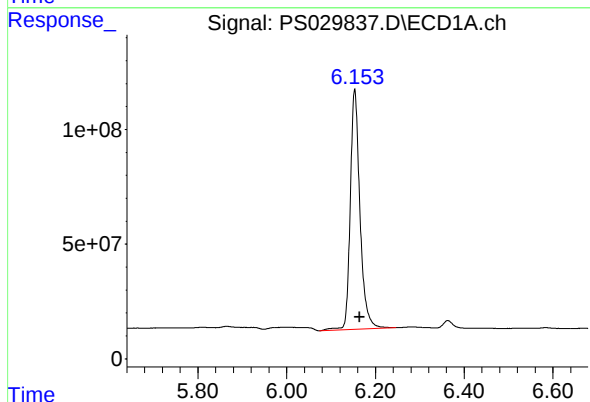
R.T.: 2.454 min
Delta R.T.: -0.009 min
Response: 1842781656
Conc: 543.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



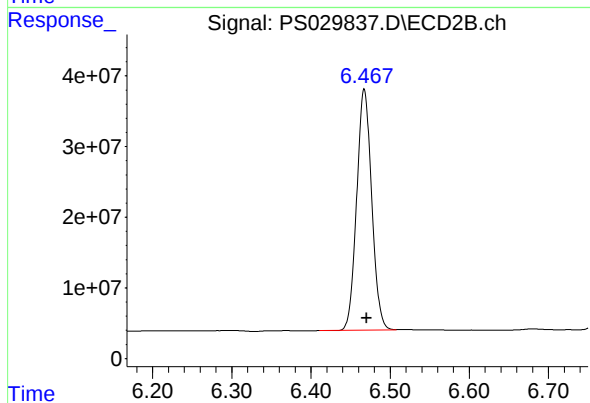
#1 Dalapon

R.T.: 2.527 min
Delta R.T.: -0.006 min
Response: 723000661
Conc: 455.41 ng/ml



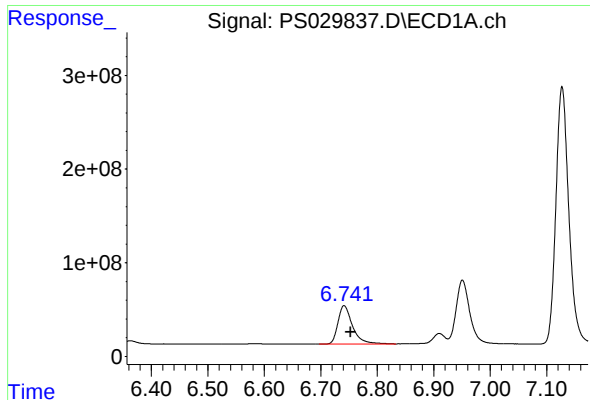
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.153 min
Delta R.T.: -0.011 min
Response: 1588023093
Conc: 527.98 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

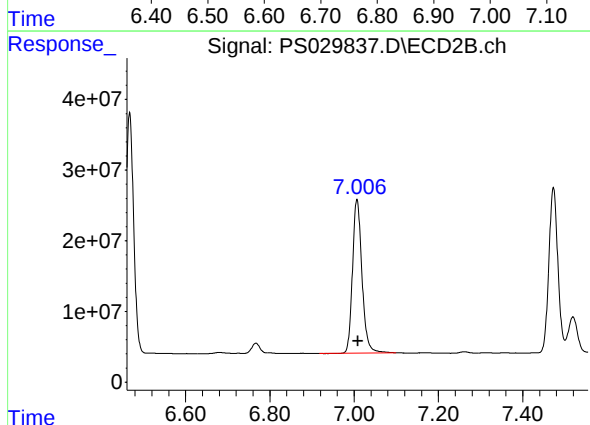
R.T.: 6.467 min
Delta R.T.: -0.003 min
Response: 449871120
Conc: 465.92 ng/ml



#3 4-Nitrophenol

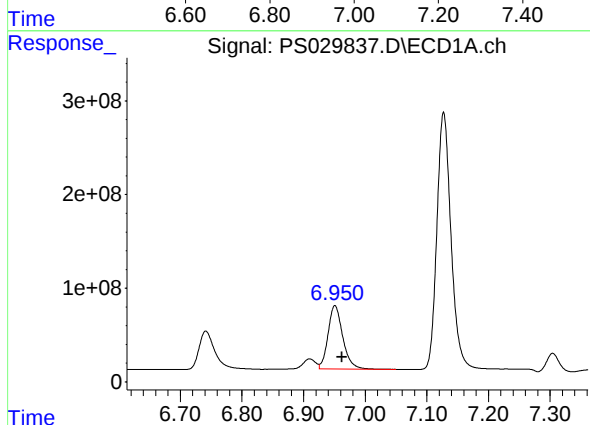
R.T.: 6.741 min
Delta R.T.: -0.012 min
Response: 733845706
Conc: 522.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



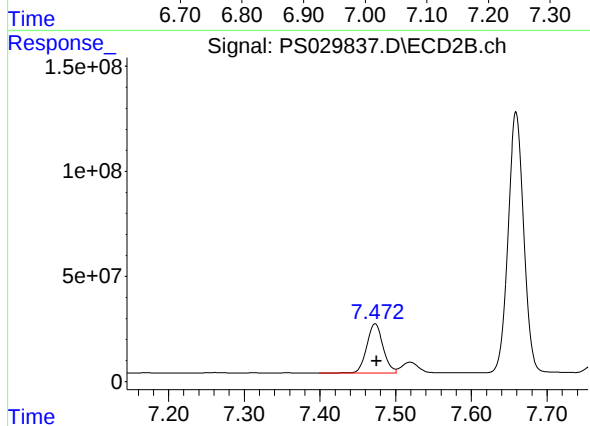
#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: -0.003 min
Response: 339061071
Conc: 478.23 ng/ml



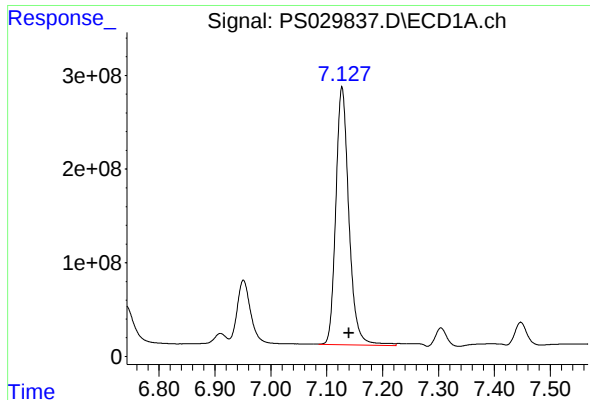
#4 2,4-DCAA

R.T.: 6.951 min
Delta R.T.: -0.012 min
Response: 1121617819
Conc: 550.13 ng/ml



#4 2,4-DCAA

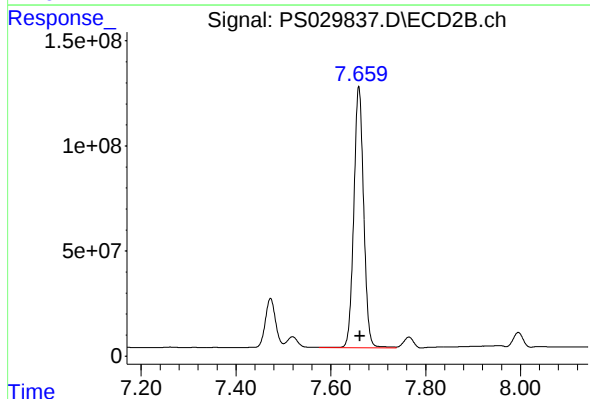
R.T.: 7.473 min
Delta R.T.: -0.002 min
Response: 350175113
Conc: 513.82 ng/ml



#5 DICAMBA

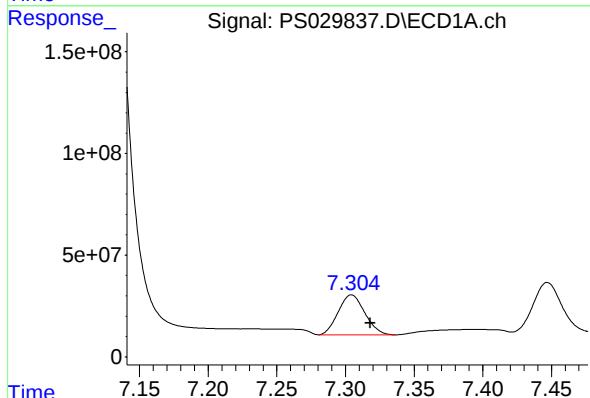
R.T.: 7.127 min
Delta R.T.: -0.013 min
Response: 4466354141
Conc: 536.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



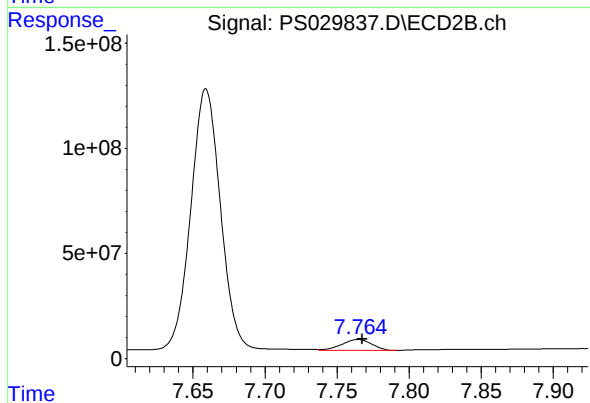
#5 DICAMBA

R.T.: 7.659 min
Delta R.T.: -0.003 min
Response: 1802092437
Conc: 487.93 ng/ml



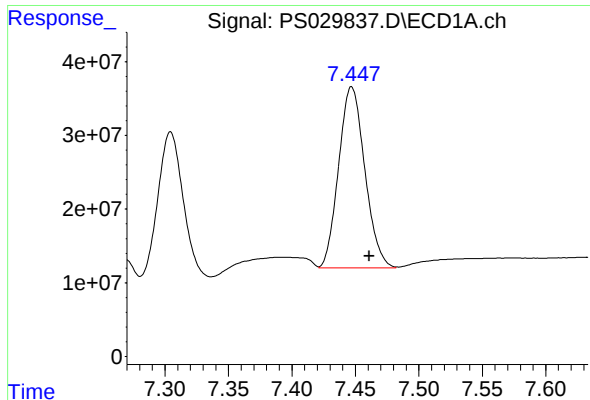
#6 MCPP

R.T.: 7.304 min
Delta R.T.: -0.014 min
Response: 264376580
Conc: 48.78 ug/ml



#6 MCPP

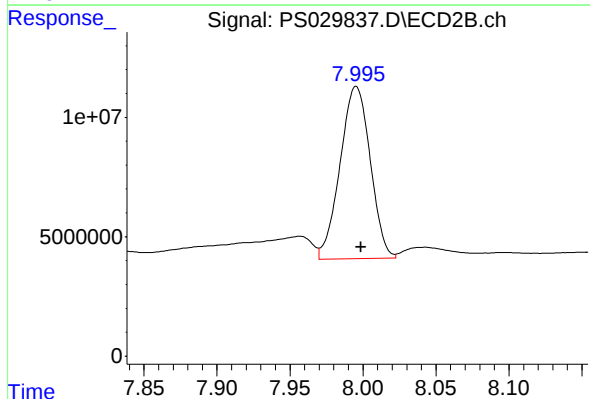
R.T.: 7.765 min
Delta R.T.: -0.003 min
Response: 75855996
Conc: 44.93 ug/ml



#7 MCPA

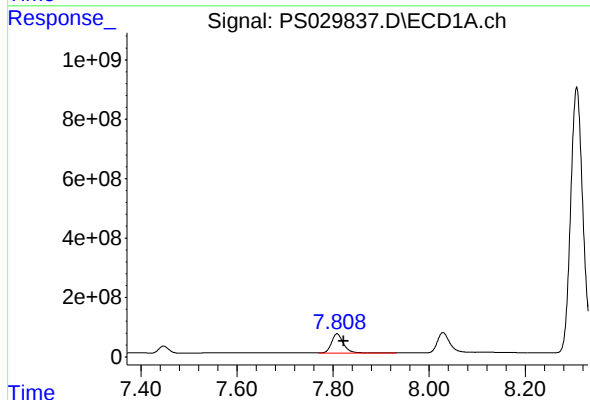
R.T.: 7.447 min
Delta R.T.: -0.015 min
Response: 353219558
Conc: 48.59 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



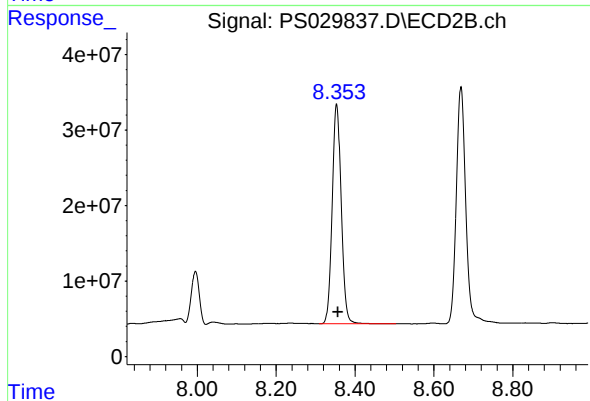
#7 MCPA

R.T.: 7.995 min
Delta R.T.: -0.003 min
Response: 103887950
Conc: 45.66 ug/ml



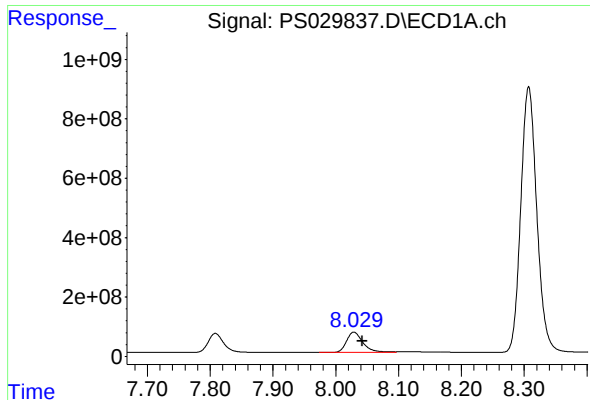
#8 DICHLORPROP

R.T.: 7.808 min
Delta R.T.: -0.014 min
Response: 1115081761
Conc: 506.98 ng/ml



#8 DICHLORPROP

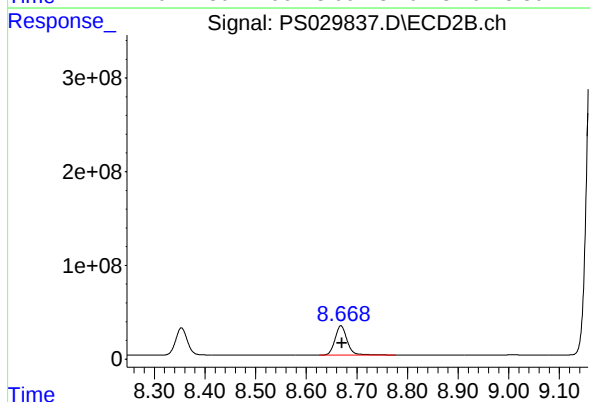
R.T.: 8.353 min
Delta R.T.: -0.003 min
Response: 464336671
Conc: 480.60 ng/ml



#9 2,4-D

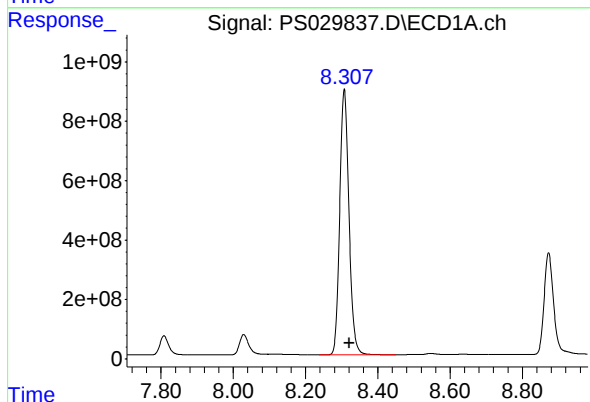
R.T.: 8.029 min
Delta R.T.: -0.013 min
Response: 1260014349
Conc: 522.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



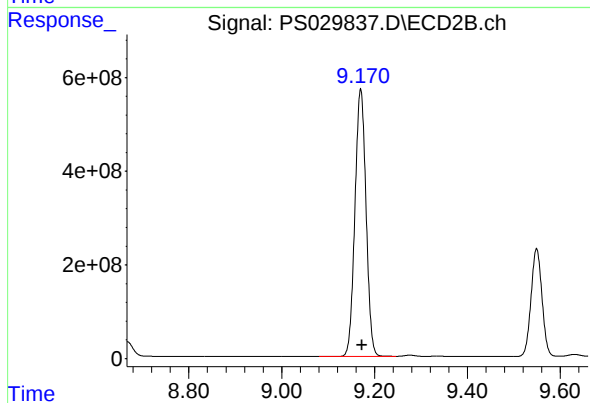
#9 2,4-D

R.T.: 8.669 min
Delta R.T.: -0.002 min
Response: 519342146
Conc: 481.56 ng/ml



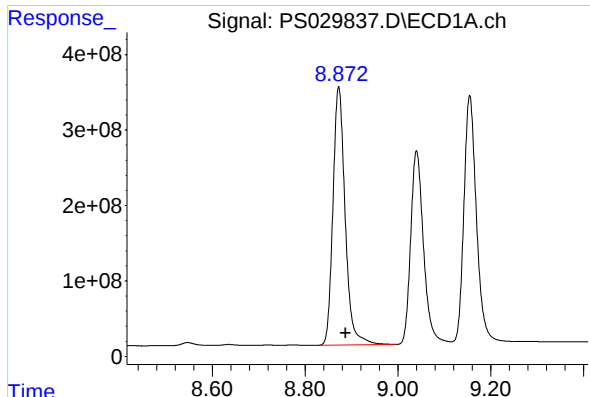
#10 Pentachlorophenol

R.T.: 8.307 min
Delta R.T.: -0.013 min
Response: 15826475532
Conc: 520.52 ng/ml



#10 Pentachlorophenol

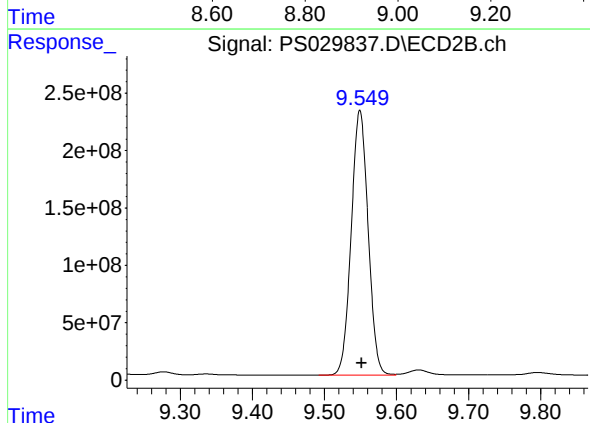
R.T.: 9.170 min
Delta R.T.: -0.003 min
Response: 9477663371
Conc: 528.66 ng/ml



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

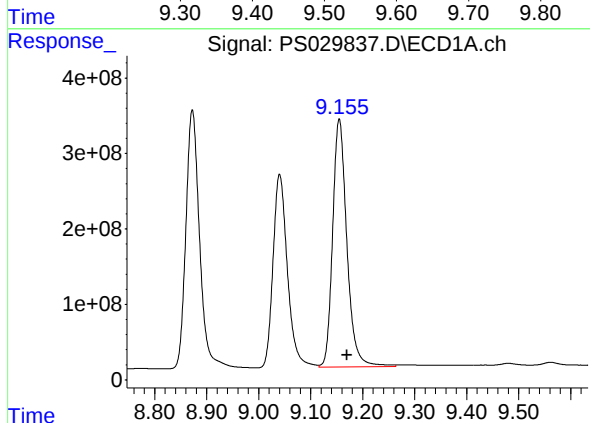
R.T.: 8.872 min
Delta R.T.: -0.015 min
Response: 6255116377
Conc: 538.52 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



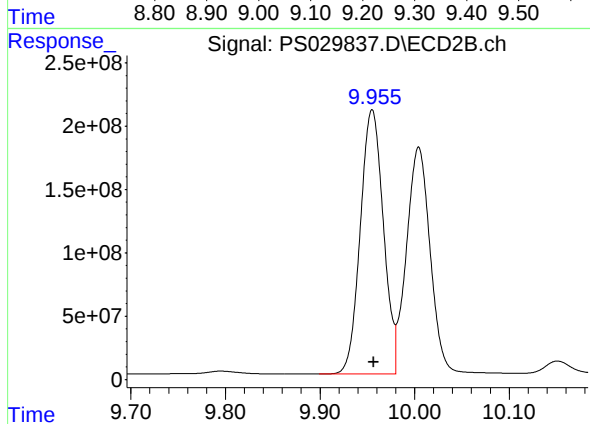
#11 2,4,5-TP (SILVEX)

R.T.: 9.549 min
Delta R.T.: -0.002 min
Response: 3757657239
Conc: 520.96 ng/ml



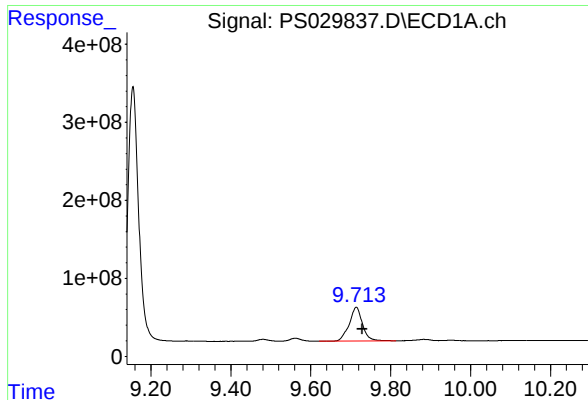
#12 2,4,5-T

R.T.: 9.155 min
Delta R.T.: -0.015 min
Response: 6249952827
Conc: 543.27 ng/ml



#12 2,4,5-T

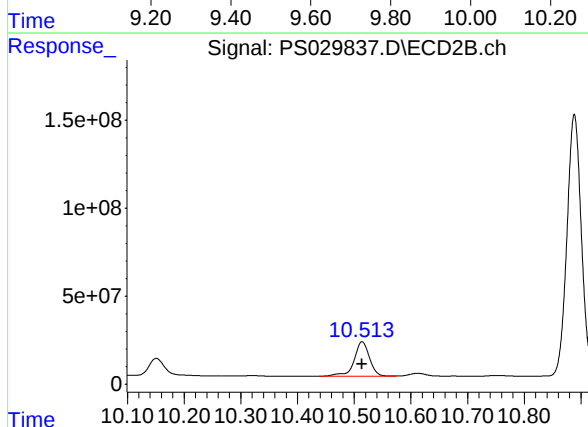
R.T.: 9.955 min
Delta R.T.: -0.002 min
Response: 3538035731
Conc: 527.84 ng/ml



#13 2,4-DB

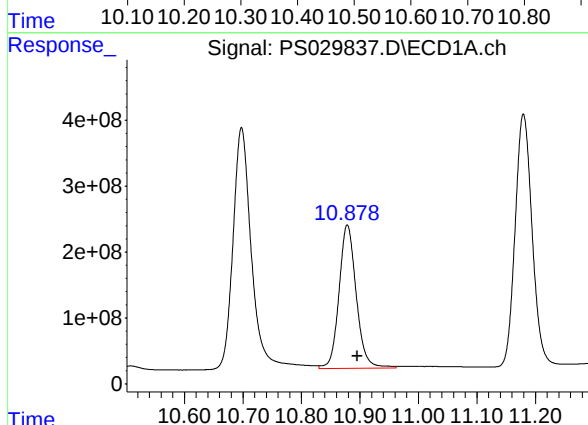
R.T.: 9.714 min
Delta R.T.: -0.015 min
Response: 990105355
Conc: 544.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



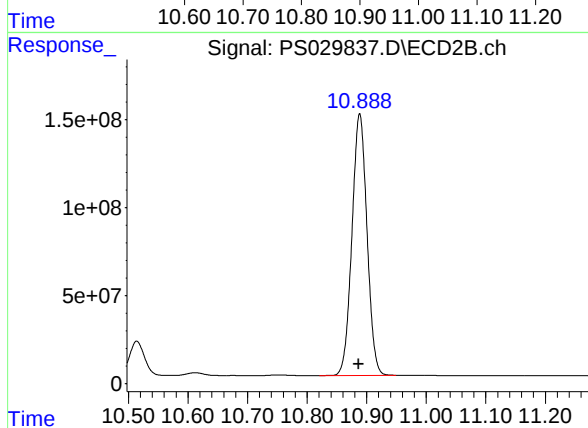
#13 2,4-DB

R.T.: 10.514 min
Delta R.T.: 0.000 min
Response: 372232100
Conc: 501.68 ng/ml



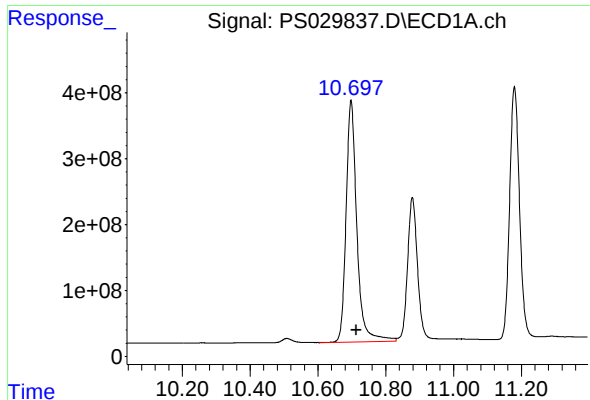
#14 DINOSEB

R.T.: 10.878 min
Delta R.T.: -0.017 min
Response: 4462642687
Conc: 528.62 ng/ml



#14 DINOSEB

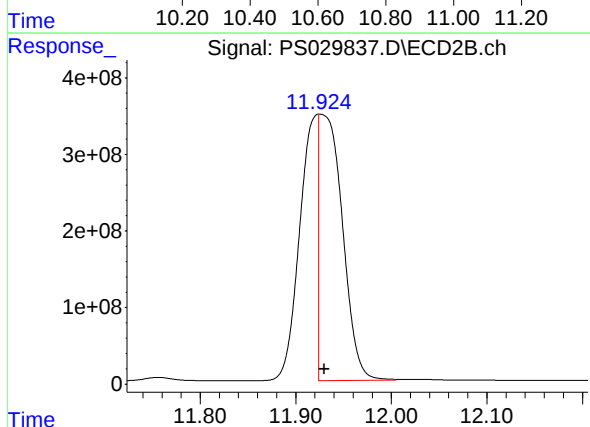
R.T.: 10.888 min
Delta R.T.: 0.002 min
Response: 2605452839
Conc: 509.59 ng/ml



#15 Picloram

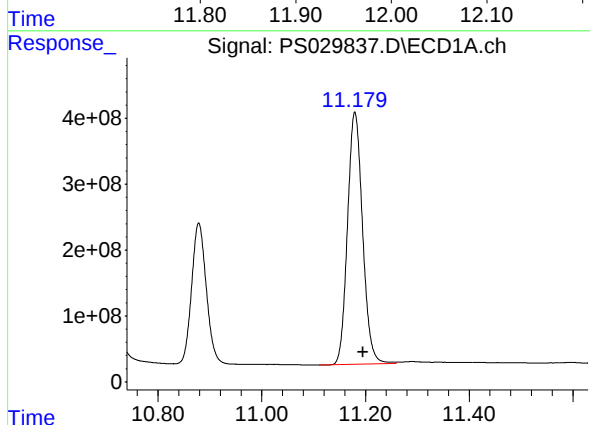
R.T.: 10.698 min
Delta R.T.: -0.016 min
Response: 8102654332
Conc: 522.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167608BS



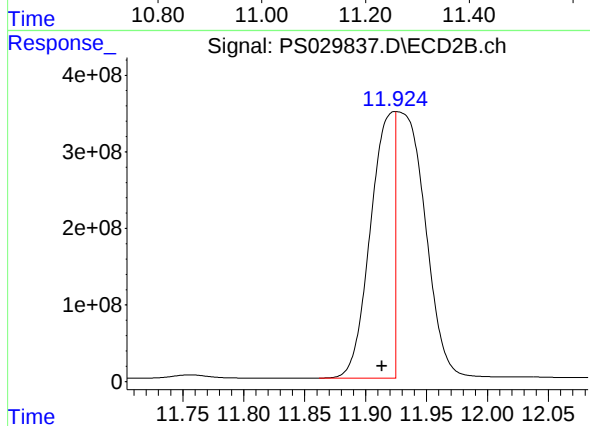
#15 Picloram

R.T.: 11.924 min
Delta R.T.: -0.005 min
Response: 5825774547
Conc: 492.69 ng/ml m



#16 DCPA

R.T.: 11.180 min
Delta R.T.: -0.016 min
Response: 7712278577
Conc: 552.21 ng/ml



#16 DCPA

R.T.: 11.924 min
Delta R.T.: 0.011 min
Response: 4725757785
Conc: 533.94 ng/ml m

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/11/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-CMS	SDG No.:	Q1803
Lab Sample ID:	Q1800-03MS	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
PS029830.D	1	04/16/25 08:34	04/16/25 19:37	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	71.3		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	73.5		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	519		39 - 175	104%	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\PS041625\
 Data File : PS029830.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 19:37
 Operator : AR\AJ
 Sample : Q1800-03MS
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-A4-01-CMS

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 04/17/2025
 Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:23:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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

System Monitoring Compounds							
4) S	2,4-DCAA	6.953	7.476	1057.3E6	340.6E6	518.604	499.740
Target Compounds							
1) T	Dalapon	2.454	2.531	1597.8E6	801.4E6	471.005	504.768m
2) T	3,5-DICHL...	6.155	6.470	1748.9E6	582.0E6	581.470m	602.723m
3) T	4-Nitroph...	6.743	7.010	34637181	13246021	24.656m	18.683
5) T	DICAMBA	7.129	7.662	4855.2E6	2211.4E6	583.422m	598.741m
6) T	MCP	7.306	7.769	573.6E6	86350511	105.835	51.141 #
7) T	MCPA	7.449	7.999	413.2E6	145.1E6	56.849m	63.752
8) T	DICHLORPROP	7.810	8.358	1324.3E6	698.2E6	602.131	722.630
9) T	2,4-D	8.030	8.671	1719.0E6	734.1E6	713.413	680.681
10) T	Pentachlo...	8.309	9.174	15602.3E6	9991.1E6	513.150	557.297
11) T	2,4,5-TP ...	8.875	9.553	7719.0E6	5302.2E6	664.556	735.100
12) T	2,4,5-T	9.156	9.958	7760.6E6	4467.3E6	674.577	666.485
13) T	2,4-DB	9.717	10.517	1225.4E6	581.5E6	674.483	783.773
14) T	DINOSEB	10.881	10.891	3467.9E6	1938.9E6	410.788	379.223
15) T	Picloram	10.699	11.929	8697.3E6	6011.6E6	561.104	508.408m
16) T	DCPA	11.182	11.925	8776.7E6	6828.7E6	628.427	771.551m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 19:37
Operator : AR\AJ
Sample : Q1800-03MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

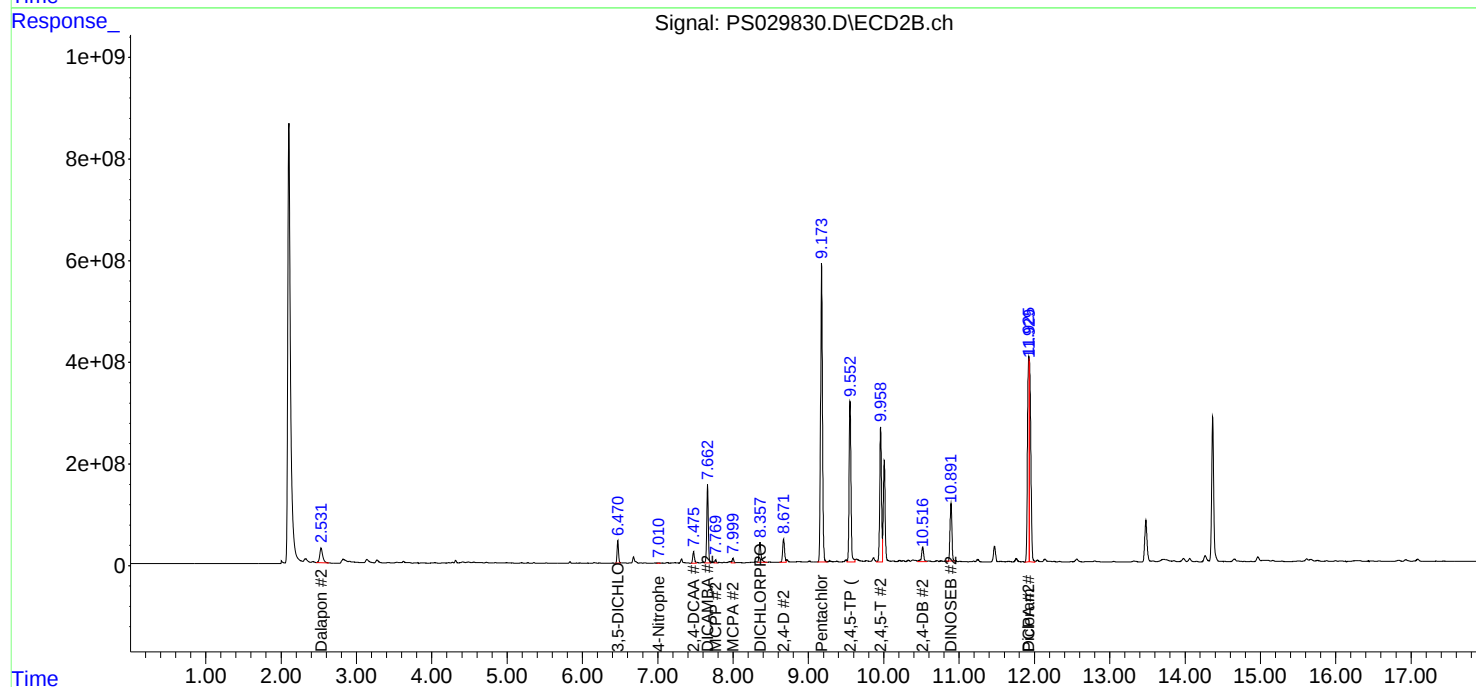
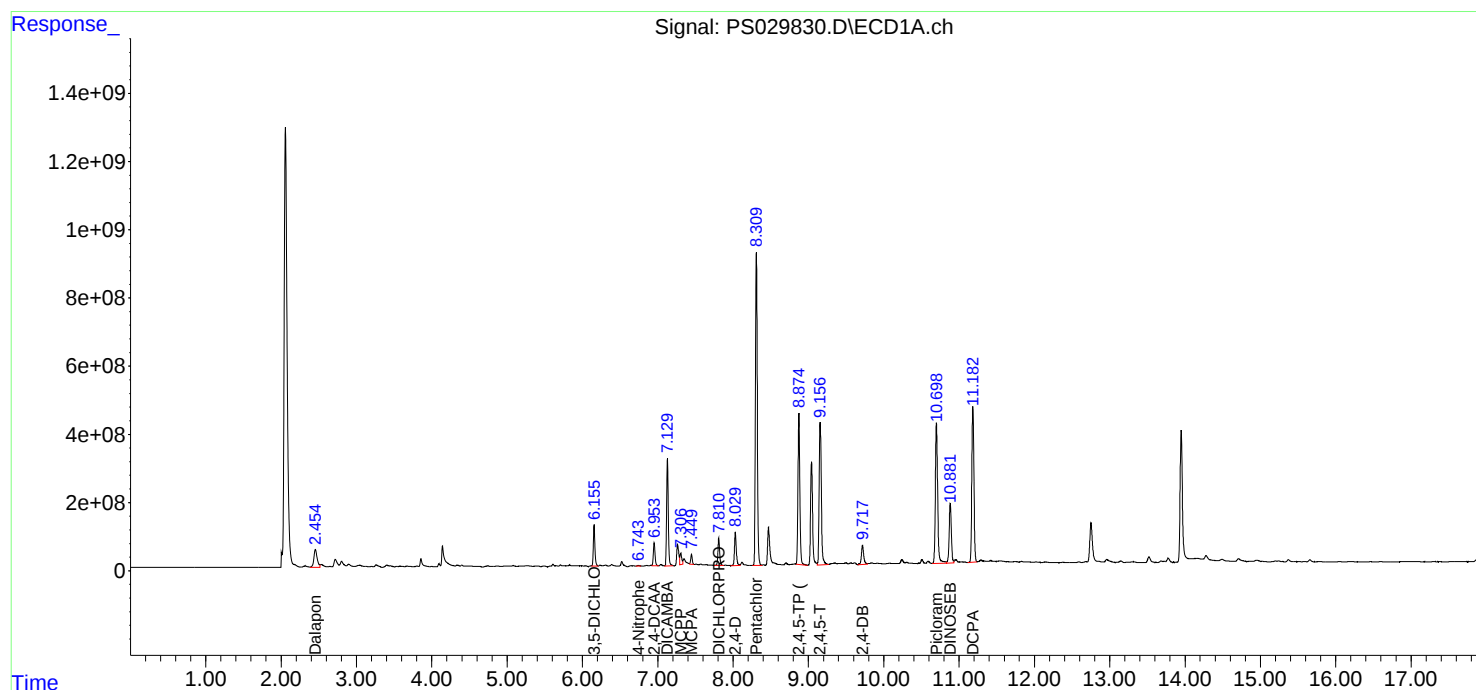
Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

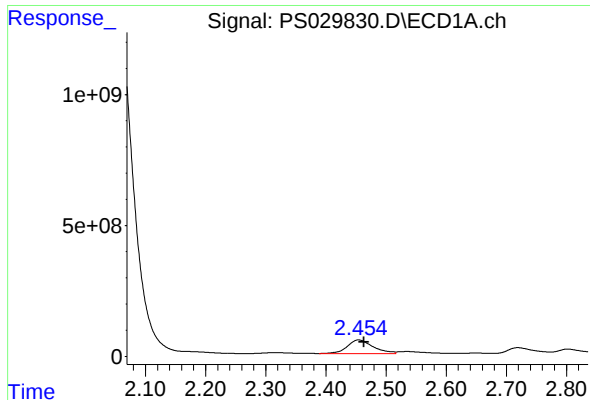
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/17/2025
Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:23:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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





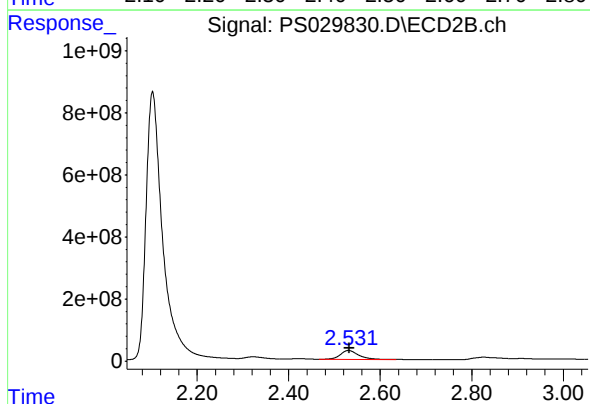
#1 Dalapon

R.T.: 2.454 min
Delta R.T.: -0.009 min
Response: 1597836261
Conc: 471.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

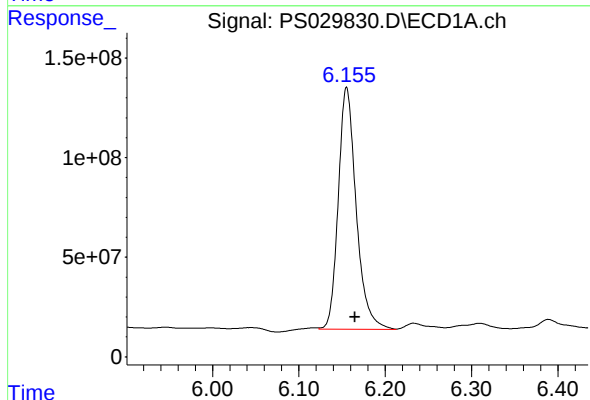
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



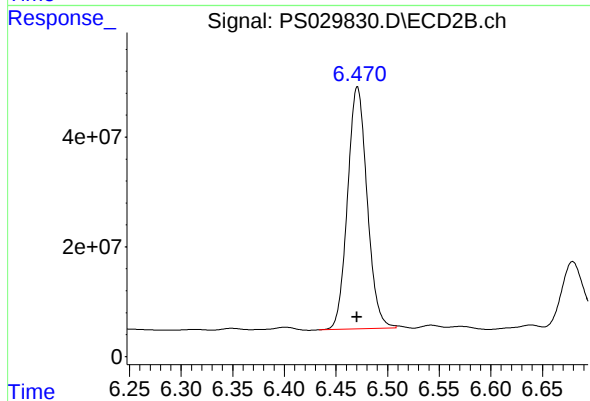
#1 Dalapon

R.T.: 2.531 min
Delta R.T.: -0.003 min
Response: 801367348
Conc: 504.77 ng/ml



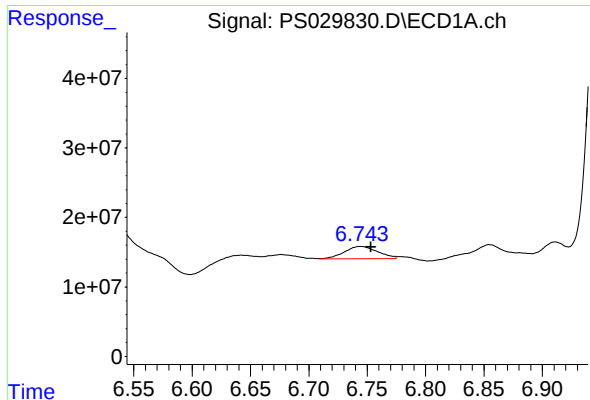
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.155 min
Delta R.T.: -0.010 min
Response: 1748921252
Conc: 581.47 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.470 min
Delta R.T.: 0.000 min
Response: 581963637
Conc: 602.72 ng/ml



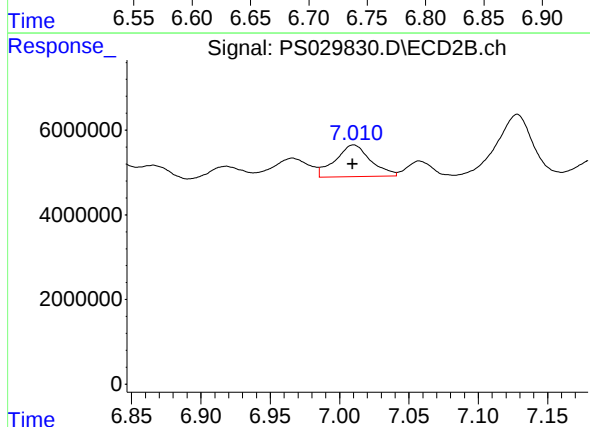
#3 4-Nitrophenol

R.T.: 6.743 min
Delta R.T.: -0.010 min
Response: 34637181
Conc: 24.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

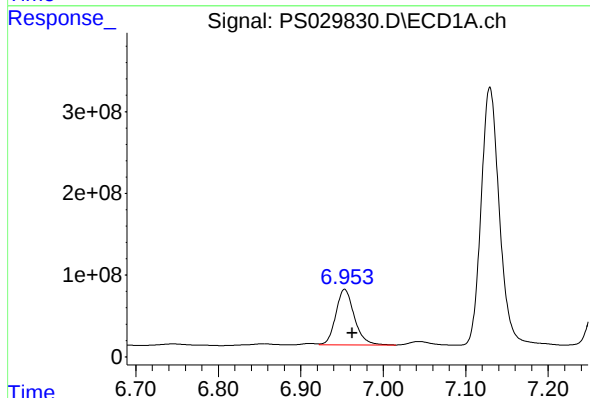
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



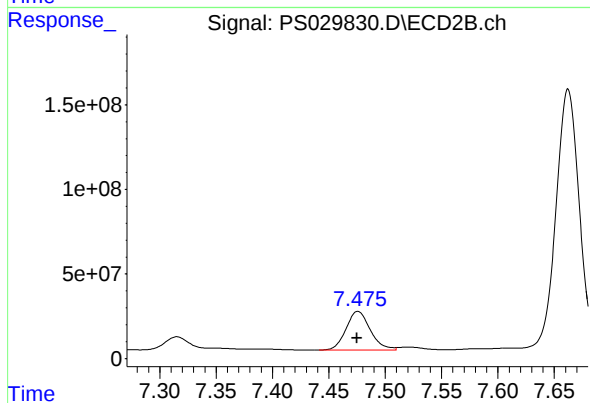
#3 4-Nitrophenol

R.T.: 7.010 min
Delta R.T.: 0.000 min
Response: 13246021
Conc: 18.68 ng/ml



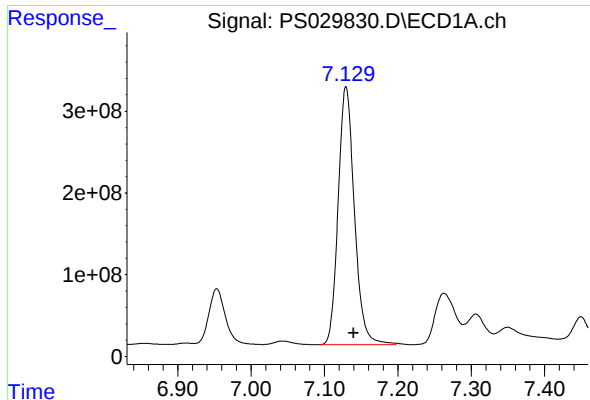
#4 2,4-DCAA

R.T.: 6.953 min
Delta R.T.: -0.009 min
Response: 1057345945
Conc: 518.60 ng/ml



#4 2,4-DCAA

R.T.: 7.476 min
Delta R.T.: 0.001 min
Response: 340578958
Conc: 499.74 ng/ml



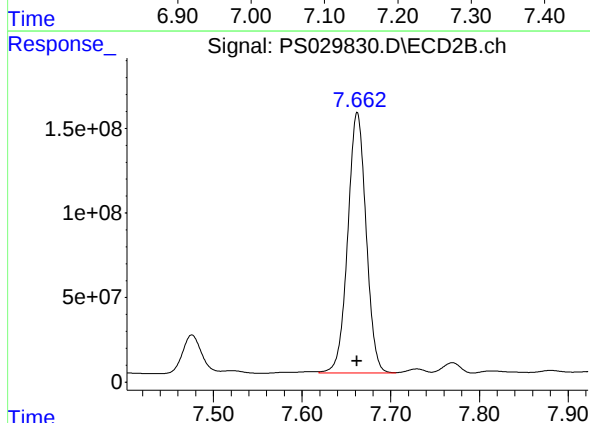
#5 DICAMBA

R.T.: 7.129 min
Delta R.T.: -0.011 min
Response: 4855202616
Conc: 583.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

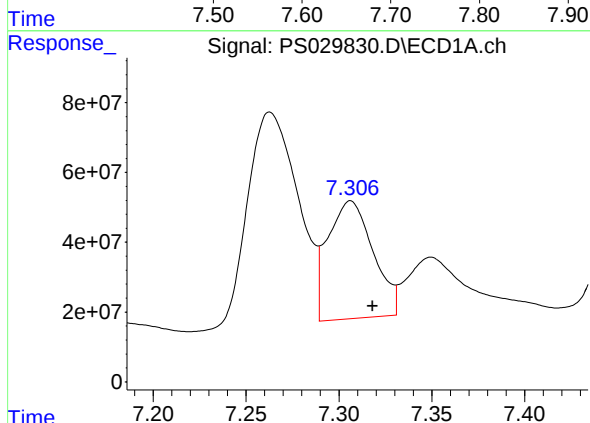
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



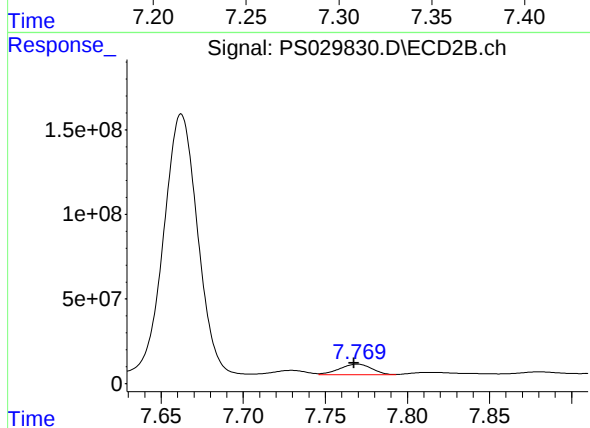
#5 DICAMBA

R.T.: 7.662 min
Delta R.T.: 0.000 min
Response: 2211370129
Conc: 598.74 ng/ml



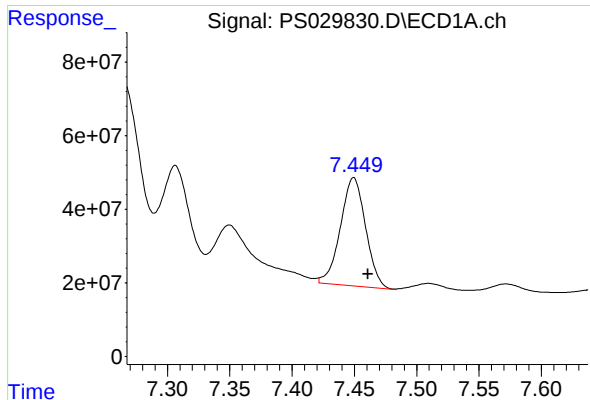
#6 MCPP

R.T.: 7.306 min
Delta R.T.: -0.012 min
Response: 573611127
Conc: 105.83 ug/ml



#6 MCPP

R.T.: 7.769 min
Delta R.T.: 0.002 min
Response: 86350511
Conc: 51.14 ug/ml



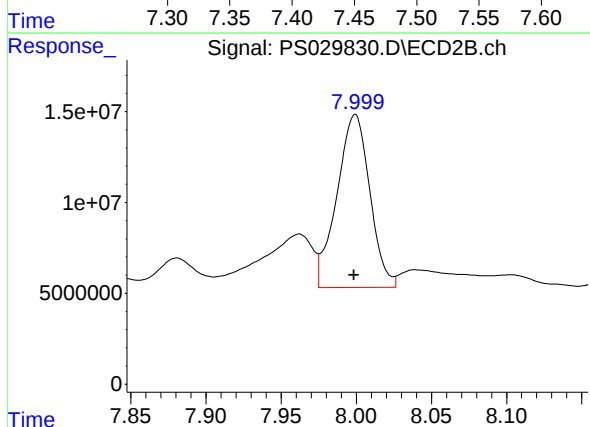
#7 MCPA

R.T.: 7.449 min
Delta R.T.: -0.012 min
Response: 413234513
Conc: 56.85 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

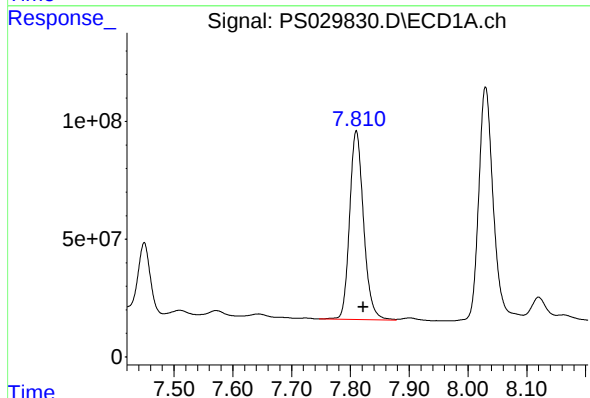
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



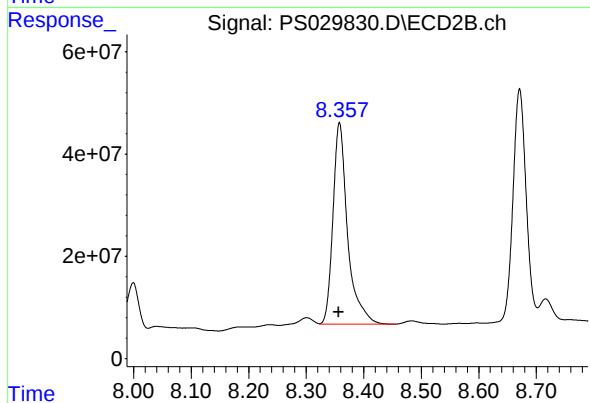
#7 MCPA

R.T.: 7.999 min
Delta R.T.: 0.000 min
Response: 145051764
Conc: 63.75 ug/ml



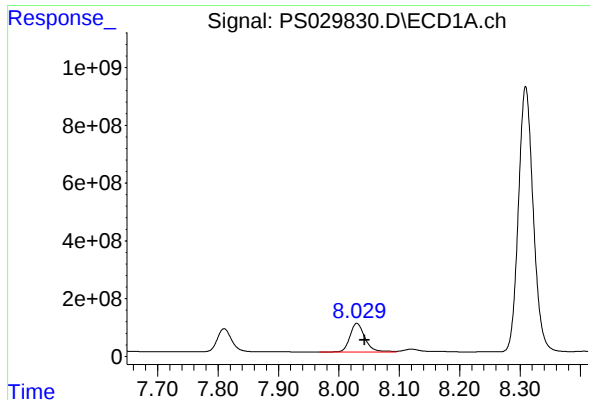
#8 DICHLORPROP

R.T.: 7.810 min
Delta R.T.: -0.012 min
Response: 1324348909
Conc: 602.13 ng/ml



#8 DICHLORPROP

R.T.: 8.358 min
Delta R.T.: 0.001 min
Response: 698170308
Conc: 722.63 ng/ml



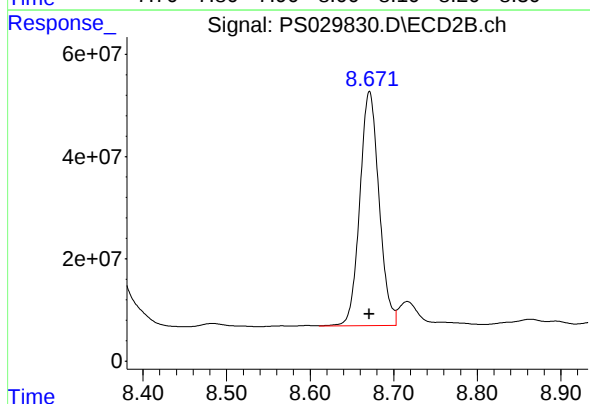
#9 2,4-D

R.T.: 8.030 min
Delta R.T.: -0.012 min
Response: 1719033266
Conc: 713.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

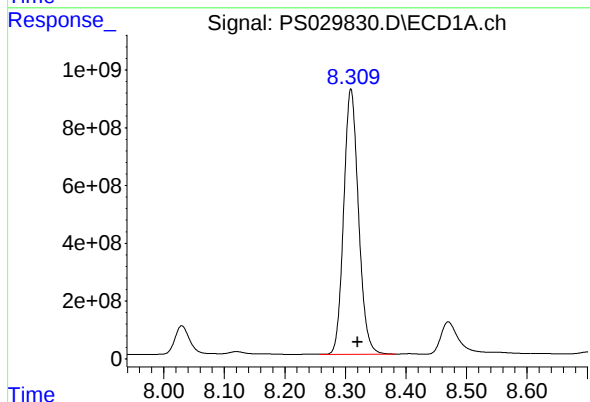
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



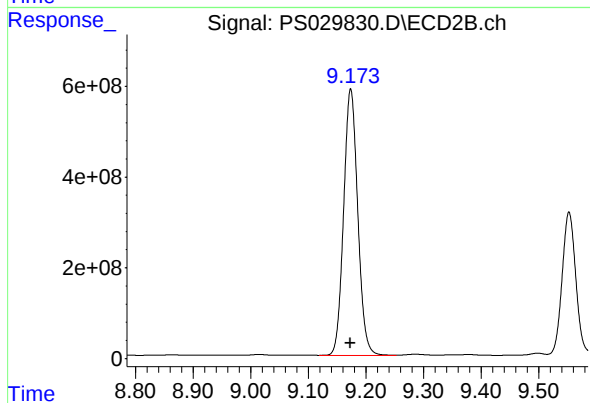
#9 2,4-D

R.T.: 8.671 min
Delta R.T.: 0.000 min
Response: 734090308
Conc: 680.68 ng/ml



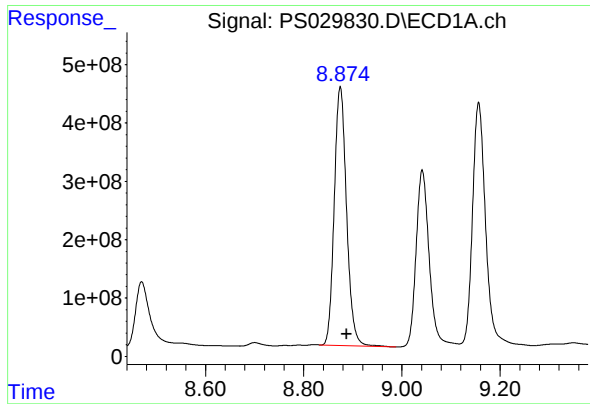
#10 Pentachlorophenol

R.T.: 8.309 min
Delta R.T.: -0.011 min
Response: 15602309938
Conc: 513.15 ng/ml



#10 Pentachlorophenol

R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 9991073310
Conc: 557.30 ng/ml



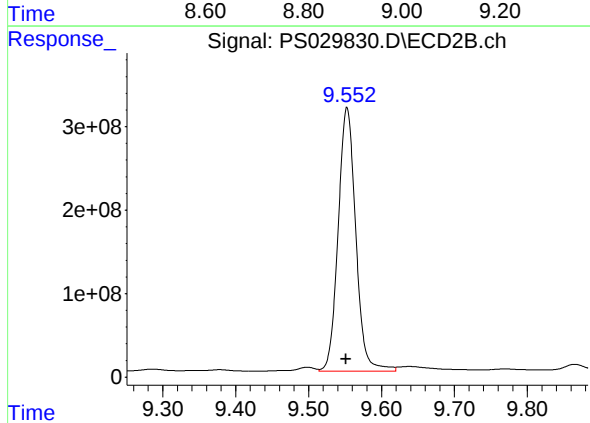
#11 2,4,5-TP (SILVEX)

R.T.: 8.875 min
Delta R.T.: -0.013 min
Response: 7719048409
Conc: 664.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

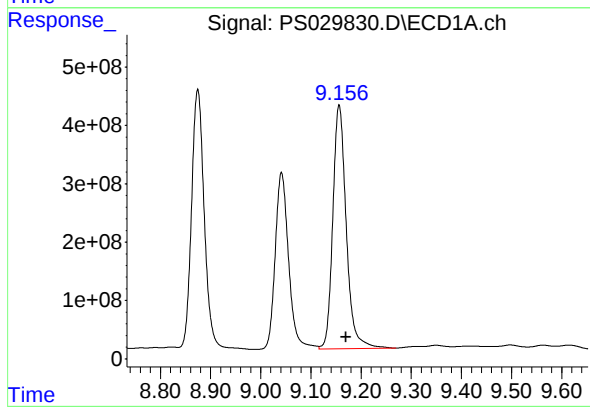
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



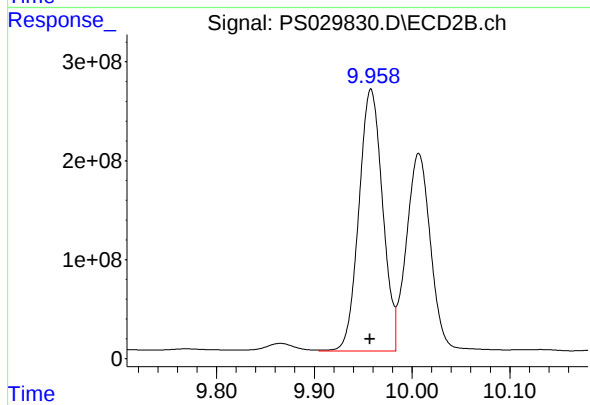
#11 2,4,5-TP (SILVEX)

R.T.: 9.553 min
Delta R.T.: 0.001 min
Response: 5302243350
Conc: 735.10 ng/ml



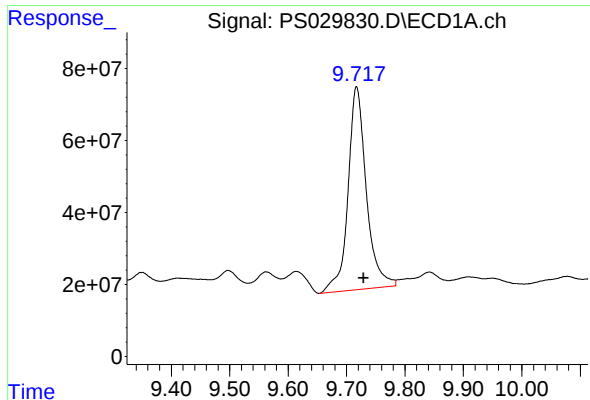
#12 2,4,5-T

R.T.: 9.156 min
Delta R.T.: -0.014 min
Response: 7760625425
Conc: 674.58 ng/ml



#12 2,4,5-T

R.T.: 9.958 min
Delta R.T.: 0.001 min
Response: 4467338254
Conc: 666.48 ng/ml



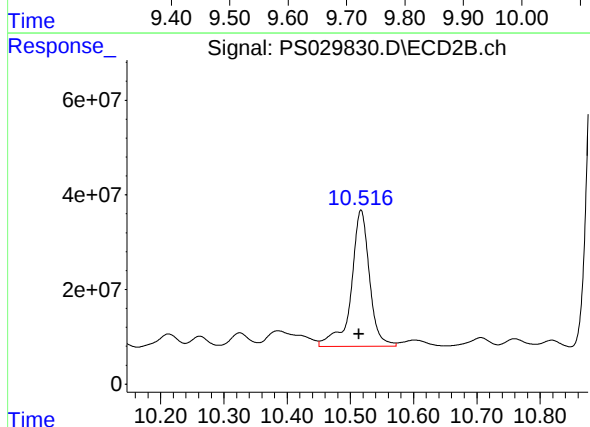
#13 2,4-DB

R.T.: 9.717 min
Delta R.T.: -0.012 min
Response: 1225363581
Conc: 674.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

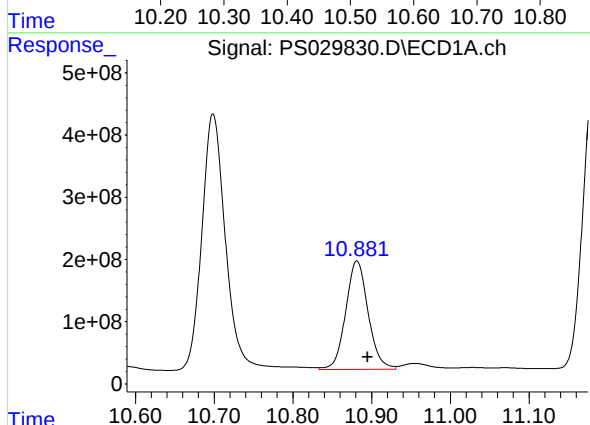
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



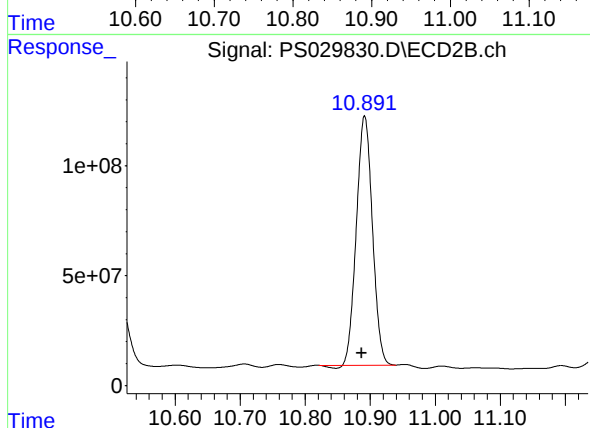
#13 2,4-DB

R.T.: 10.517 min
Delta R.T.: 0.003 min
Response: 581540117
Conc: 783.77 ng/ml



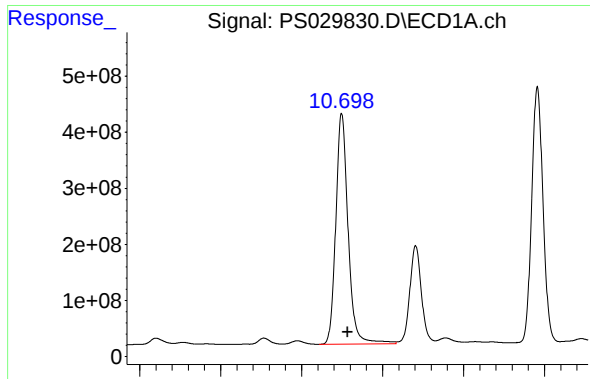
#14 DINOSEB

R.T.: 10.881 min
Delta R.T.: -0.014 min
Response: 3467889701
Conc: 410.79 ng/ml



#14 DINOSEB

R.T.: 10.891 min
Delta R.T.: 0.005 min
Response: 1938893387
Conc: 379.22 ng/ml



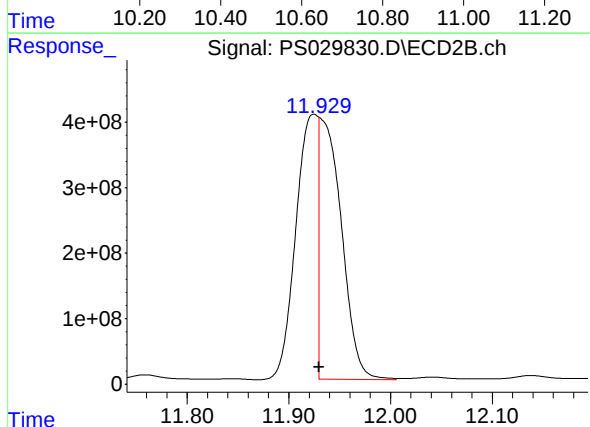
#15 Picloram

R.T.: 10.699 min
Delta R.T.: -0.015 min
Response: 8697329988
Conc: 561.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

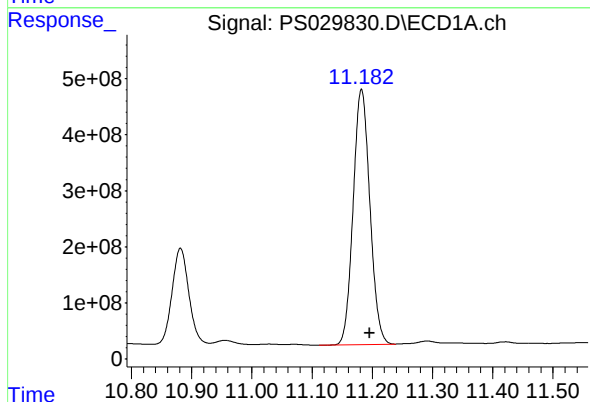
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



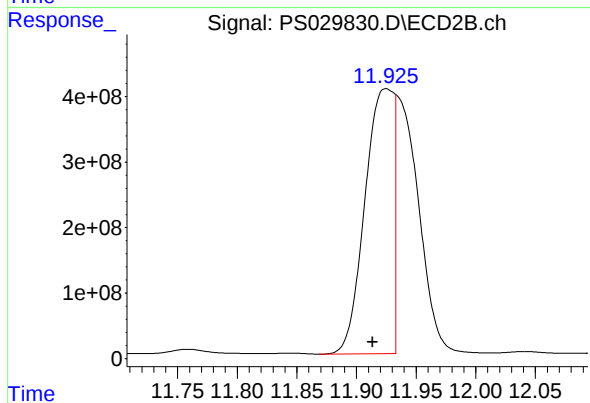
#15 Picloram

R.T.: 11.929 min
Delta R.T.: 0.000 min
Response: 6011628125
Conc: 508.41 ng/ml m



#16 DCPA

R.T.: 11.182 min
Delta R.T.: -0.013 min
Response: 8776686019
Conc: 628.43 ng/ml



#16 DCPA

R.T.: 11.925 min
Delta R.T.: 0.011 min
Response: 6828735280
Conc: 771.55 ng/ml m

Report of Analysis

Client:	Scalamandre – Tully JV	Date Collected:	04/11/25
Project:	NYC DOT Harper Street Yard North	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-CMSD	SDG No.:	Q1803
Lab Sample ID:	Q1800-03MSD	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
PS029831.D	1	04/16/25 08:34	04/16/25 20:01	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	70.8		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	73.7		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	516		39 - 175	103%	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\PS041625\
 Data File : PS029831.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Apr 2025 20:01
 Operator : AR\AJ
 Sample : Q1800-03MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-A4-01-CMSD

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 04/17/2025
 Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 17 01:23:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 02 23:52:55 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

System Monitoring Compounds							
4) S	2,4-DCAA	6.952	7.475	1051.7E6	334.9E6	515.838	491.476
Target Compounds							
1) T	Dalapon	2.454	2.529	1594.6E6	806.1E6	470.057	507.730m
2) T	3,5-DICHL...	6.155	6.470	1736.6E6	581.0E6	577.375m	601.763m
3) T	4-Nitroph...	6.743	7.009	35871054	9554822	25.535m	13.477m#
5) T	DICAMBA	7.128	7.661	4811.1E6	2238.3E6	578.117m	606.035
6) T	MCP	7.305	7.768	573.7E6	82202284	105.853	48.684 #
7) T	MCPA	7.448	7.998	401.1E6	136.1E6	55.180m	59.823
8) T	DICHLORPROP	7.809	8.356	1316.0E6	686.7E6	598.316	710.799
9) T	2,4-D	8.029	8.670	1706.2E6	728.6E6	708.101	675.627
10) T	Pentachlo...	8.308	9.173	15564.7E6	9898.0E6	511.913	552.103
11) T	2,4,5-TP ...	8.873	9.551	7694.3E6	5312.6E6	662.422	736.530
12) T	2,4,5-T	9.155	9.957	7728.8E6	4443.4E6	671.812	662.908
13) T	2,4-DB	9.716	10.515	1049.7E6	489.2E6	577.784m	659.274m
14) T	DINOSEB	10.880	10.890	3418.5E6	1916.6E6	404.932	374.860
15) T	Picloram	10.698	11.929	8633.8E6	5798.5E6	557.003	490.384m
16) T	DCPA	11.181	11.924	8770.6E6	6979.8E6	627.990	788.615m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029831.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 20:01
Operator : AR\AJ
Sample : Q1800-03MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

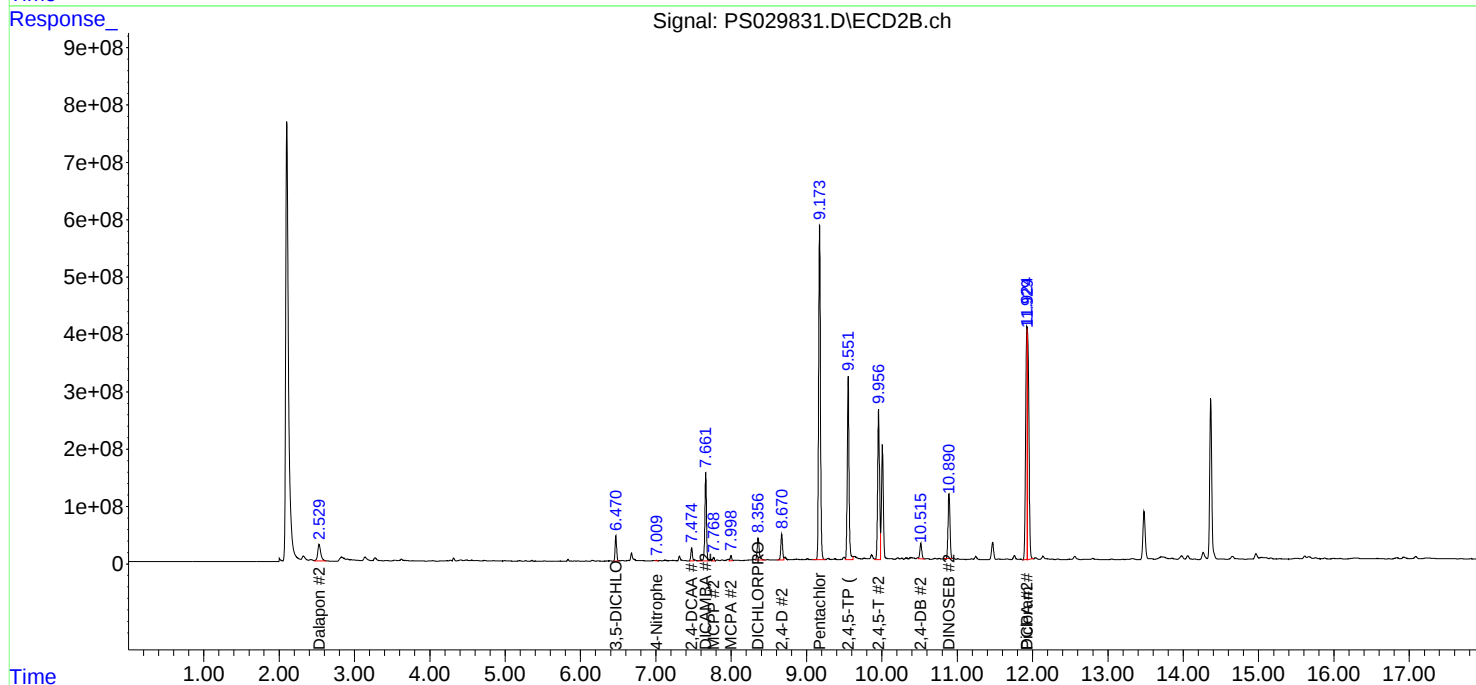
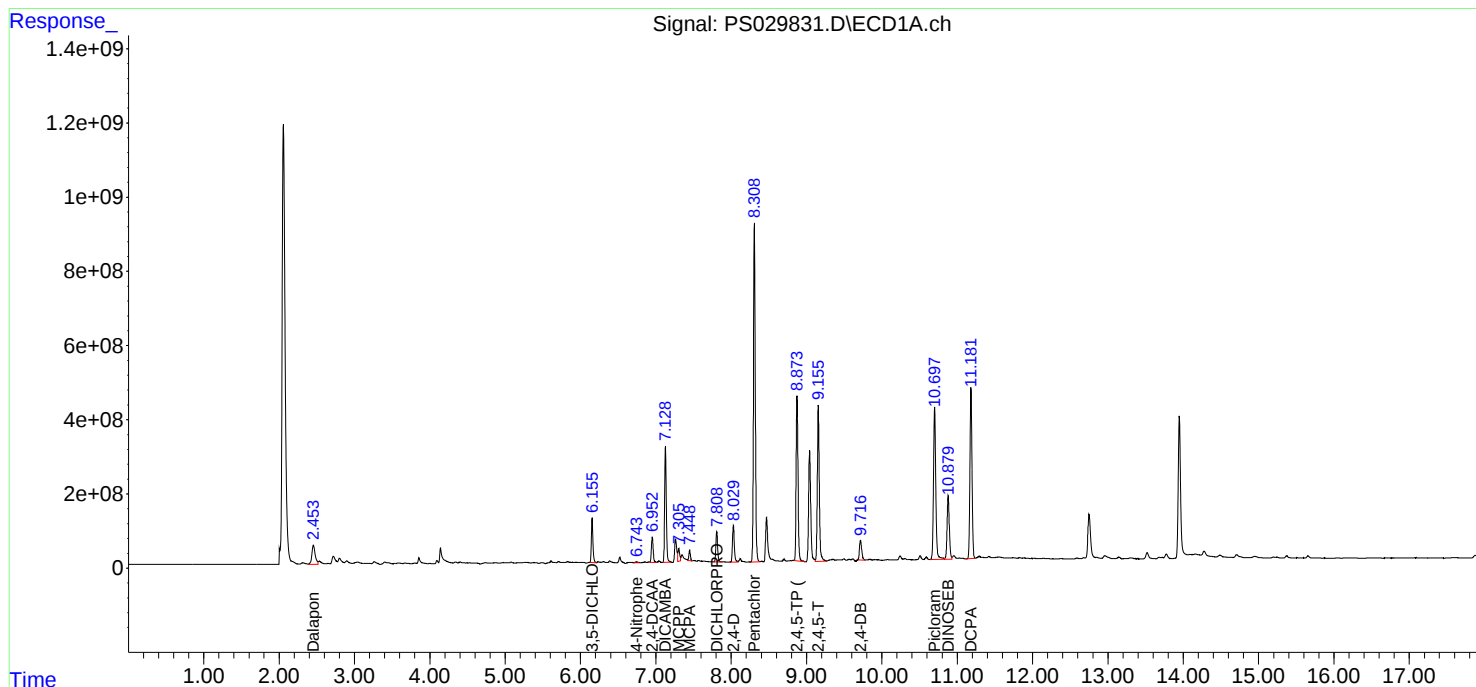
Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

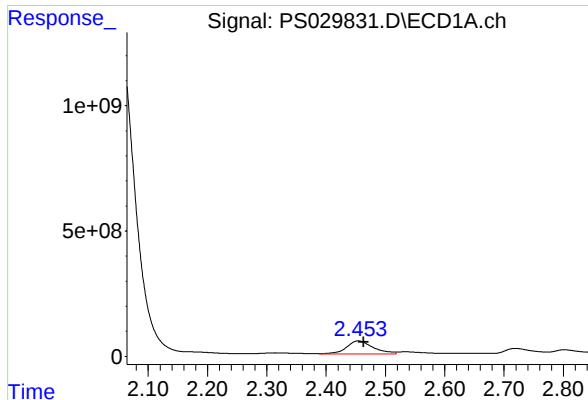
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/17/2025
Supervised By : mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:23:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 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





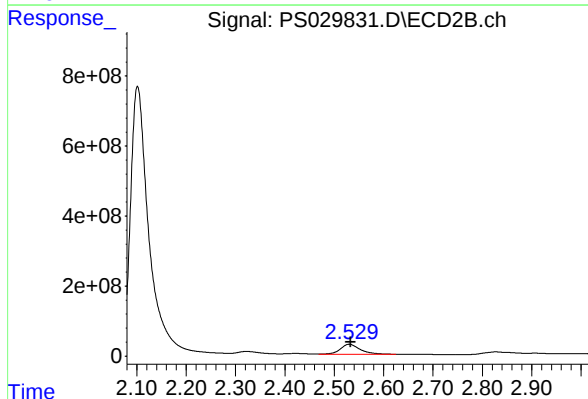
#1 Dalapon

R.T.: 2.454 min
Delta R.T.: -0.009 min
Response: 1594619917
Conc: 470.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

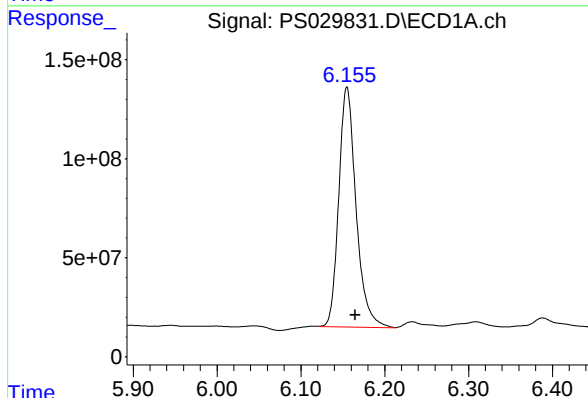
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



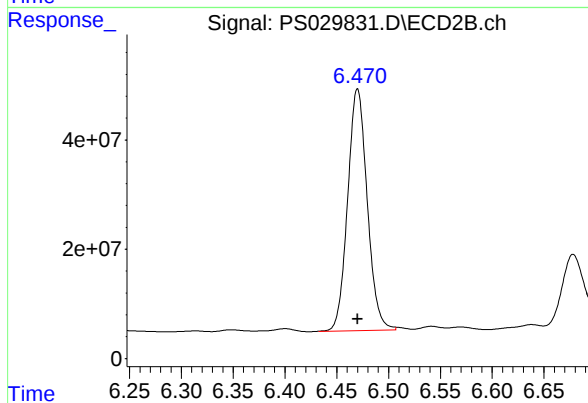
#1 Dalapon

R.T.: 2.529 min
Delta R.T.: -0.004 min
Response: 806069357
Conc: 507.73 ng/ml



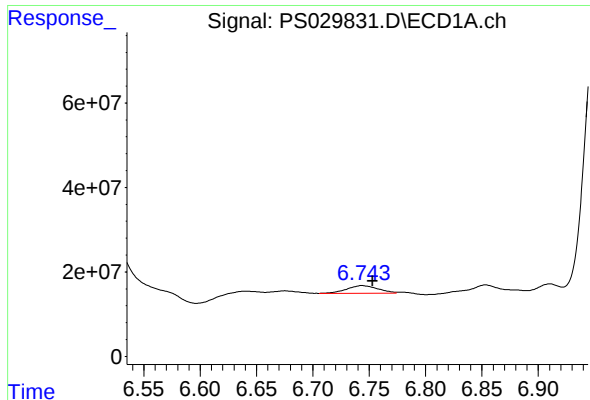
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.155 min
Delta R.T.: -0.010 min
Response: 1736605524
Conc: 577.38 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.470 min
Delta R.T.: 0.000 min
Response: 581036032
Conc: 601.76 ng/ml



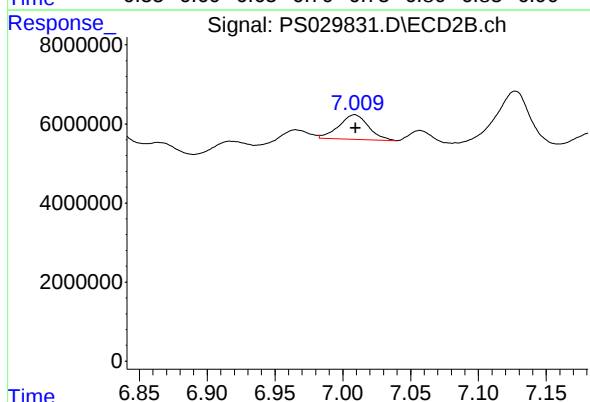
#3 4-Nitrophenol

R.T.: 6.743 min
Delta R.T.: -0.010 min
Response: 35871054
Conc: 25.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

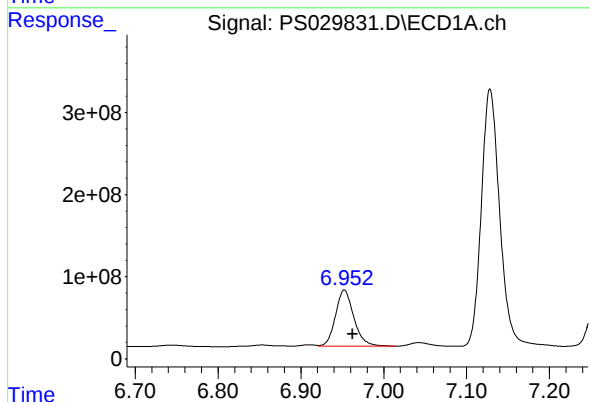
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



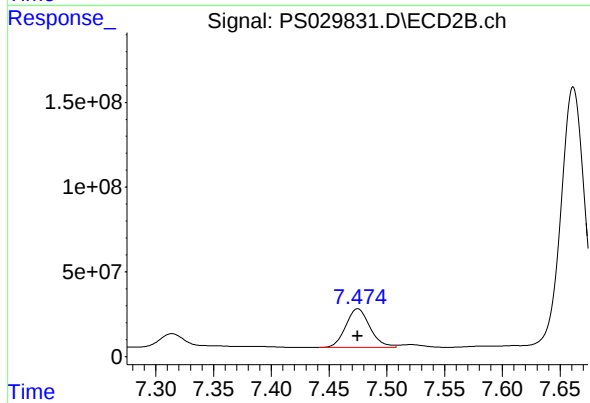
#3 4-Nitrophenol

R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 9554822
Conc: 13.48 ng/ml



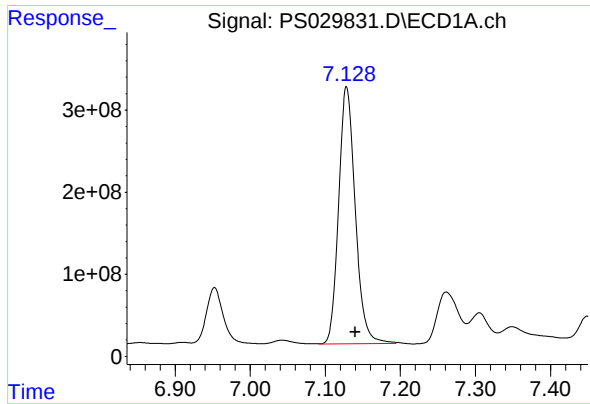
#4 2,4-DCAA

R.T.: 6.952 min
Delta R.T.: -0.010 min
Response: 1051706749
Conc: 515.84 ng/ml



#4 2,4-DCAA

R.T.: 7.475 min
Delta R.T.: 0.000 min
Response: 334947059
Conc: 491.48 ng/ml



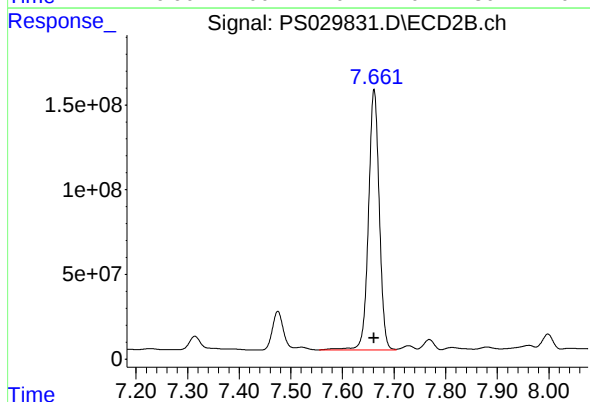
#5 DICAMBA

R.T.: 7.128 min
Delta R.T.: -0.012 min
Response: 4811053665
Conc: 578.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

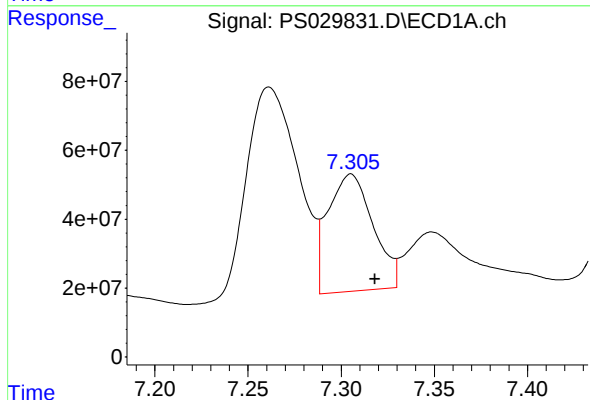
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



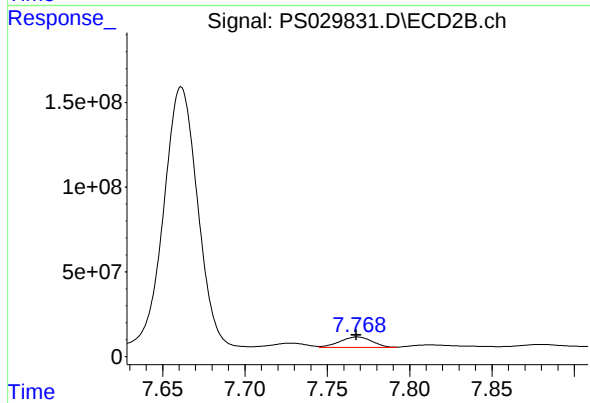
#5 DICAMBA

R.T.: 7.661 min
Delta R.T.: 0.000 min
Response: 2238309346
Conc: 606.03 ng/ml



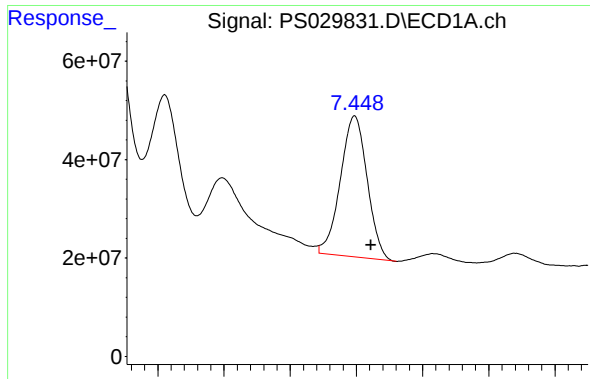
#6 MCPP

R.T.: 7.305 min
Delta R.T.: -0.013 min
Response: 573706496
Conc: 105.85 ug/ml



#6 MCPP

R.T.: 7.768 min
Delta R.T.: 0.000 min
Response: 82202284
Conc: 48.68 ug/ml



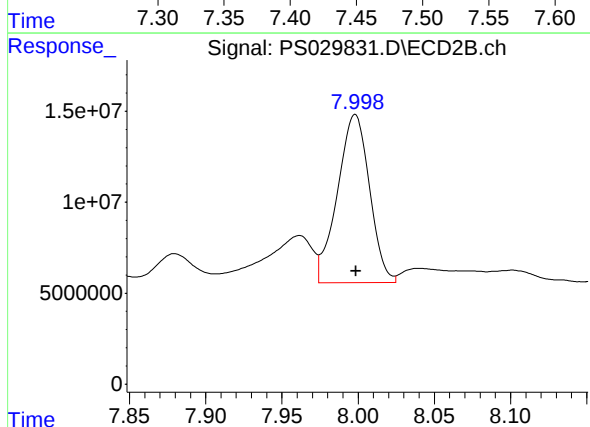
#7 MCPA

R.T.: 7.448 min
Delta R.T.: -0.013 min
Response: 401105619
Conc: 55.18 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

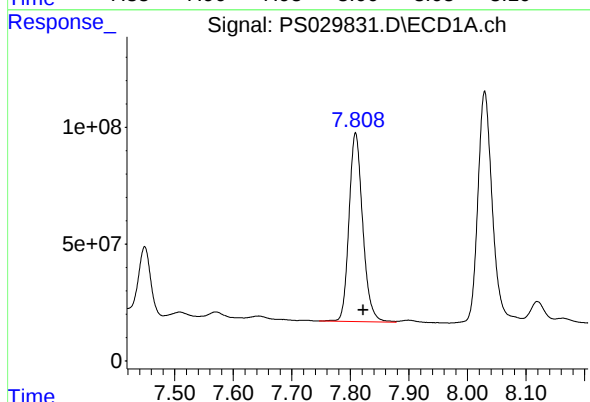
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



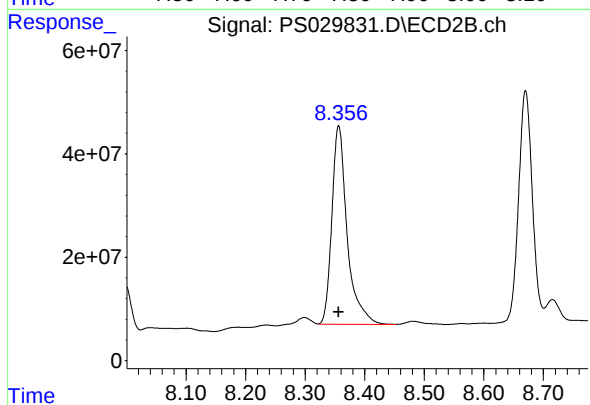
#7 MCPA

R.T.: 7.998 min
Delta R.T.: 0.000 min
Response: 136113934
Conc: 59.82 ug/ml



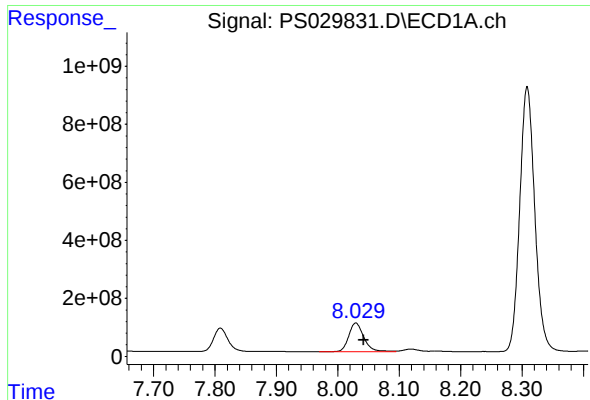
#8 DICHLORPROP

R.T.: 7.809 min
Delta R.T.: -0.013 min
Response: 1315959687
Conc: 598.32 ng/ml



#8 DICHLORPROP

R.T.: 8.356 min
Delta R.T.: 0.000 min
Response: 686739928
Conc: 710.80 ng/ml



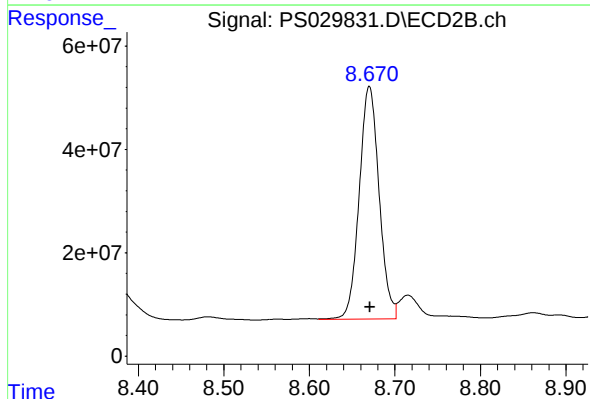
#9 2,4-D

R.T.: 8.029 min
Delta R.T.: -0.013 min
Response: 1706232383
Conc: 708.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

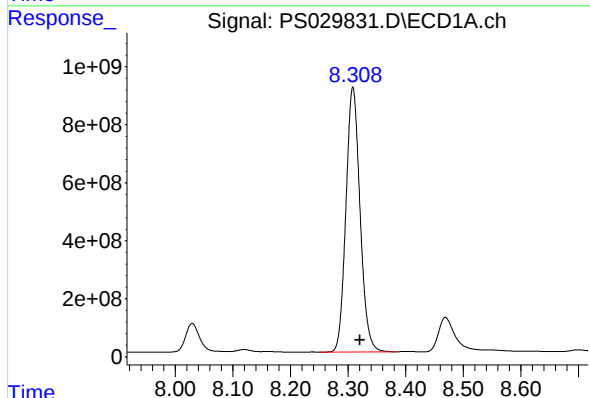
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



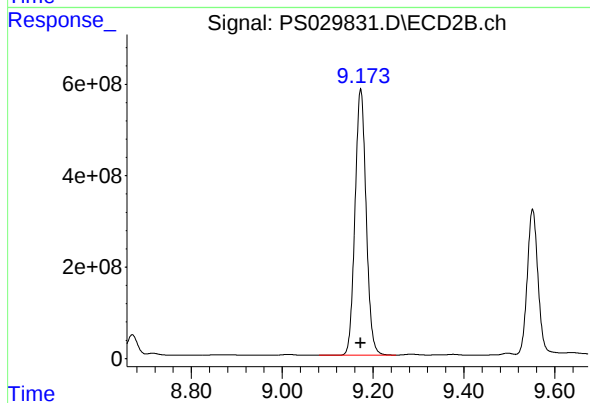
#9 2,4-D

R.T.: 8.670 min
Delta R.T.: 0.000 min
Response: 728640182
Conc: 675.63 ng/ml



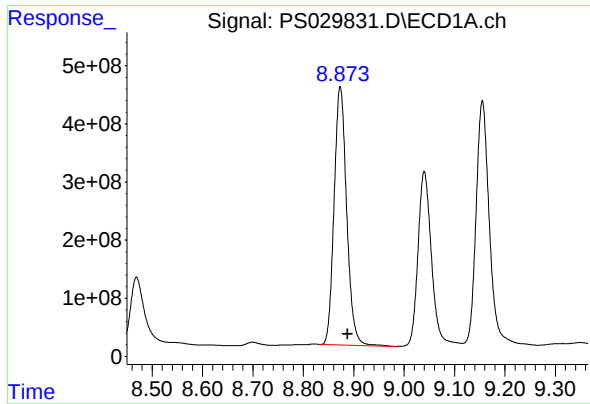
#10 Pentachlorophenol

R.T.: 8.308 min
Delta R.T.: -0.012 min
Response: 15564710674
Conc: 511.91 ng/ml



#10 Pentachlorophenol

R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 9897952650
Conc: 552.10 ng/ml



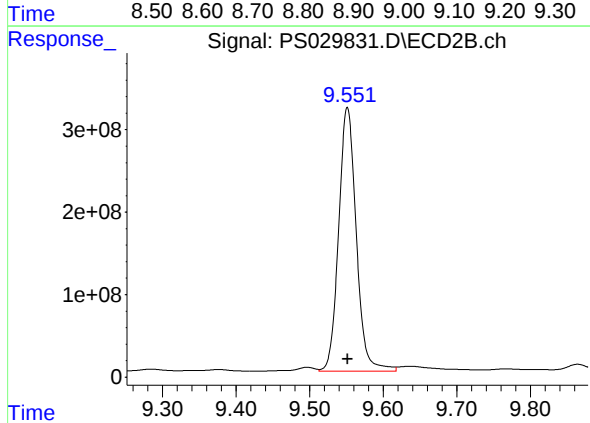
#11 2,4,5-TP (SILVEX)

R.T.: 8.873 min
Delta R.T.: -0.015 min
Response: 7694260774
Conc: 662.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

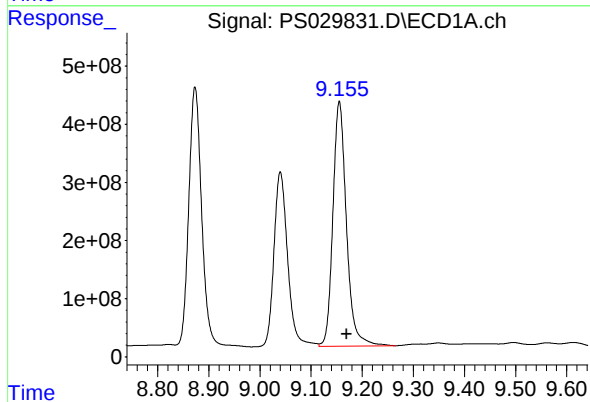
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



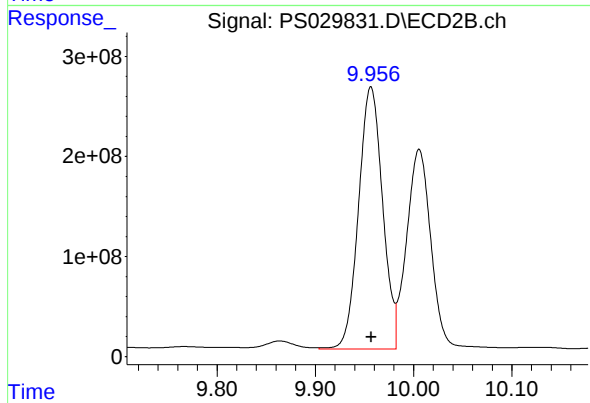
#11 2,4,5-TP (SILVEX)

R.T.: 9.551 min
Delta R.T.: 0.000 min
Response: 5312563625
Conc: 736.53 ng/ml



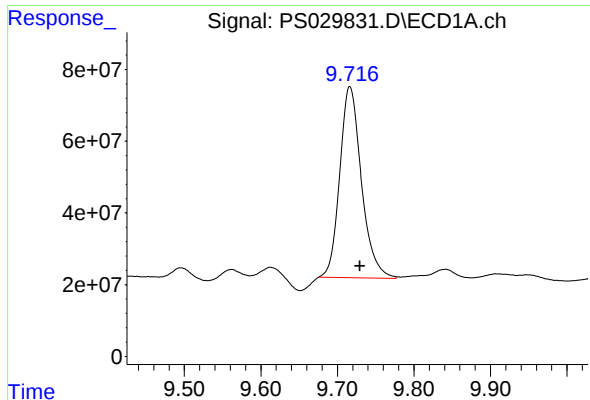
#12 2,4,5-T

R.T.: 9.155 min
Delta R.T.: -0.015 min
Response: 7728808818
Conc: 671.81 ng/ml



#12 2,4,5-T

R.T.: 9.957 min
Delta R.T.: 0.000 min
Response: 4443366641
Conc: 662.91 ng/ml



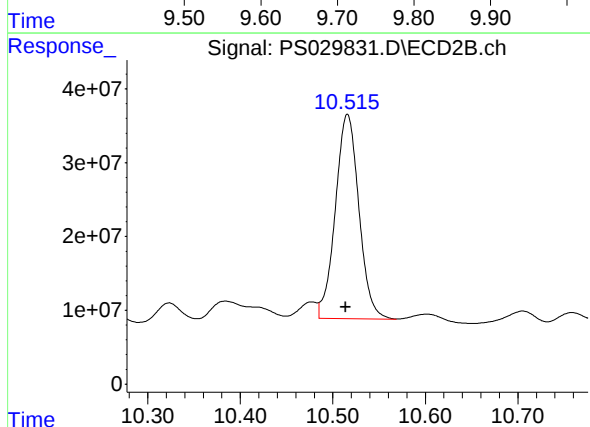
#13 2,4-DB

R.T.: 9.716 min
Delta R.T.: -0.014 min
Response: 1049686074
Conc: 577.78 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

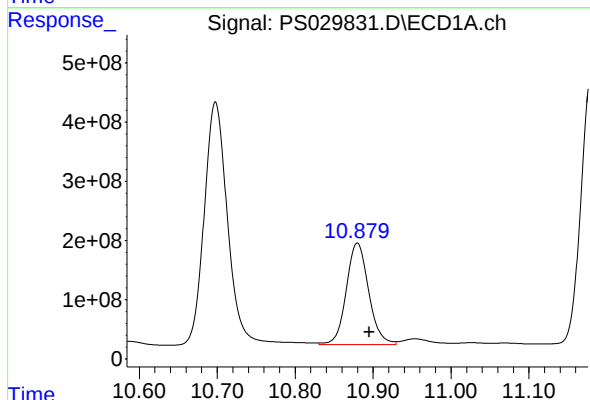
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



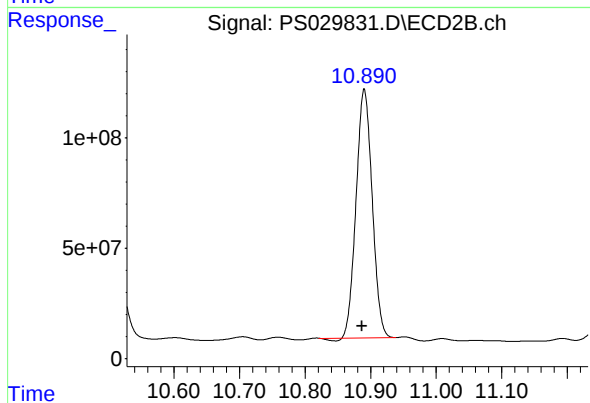
#13 2,4-DB

R.T.: 10.515 min
Delta R.T.: 0.001 min
Response: 489165133
Conc: 659.27 ng/ml



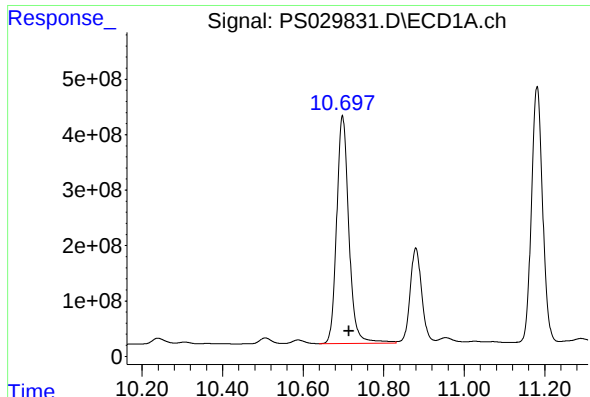
#14 DINOSEB

R.T.: 10.880 min
Delta R.T.: -0.015 min
Response: 3418450903
Conc: 404.93 ng/ml



#14 DINOSEB

R.T.: 10.890 min
Delta R.T.: 0.004 min
Response: 1916586459
Conc: 374.86 ng/ml



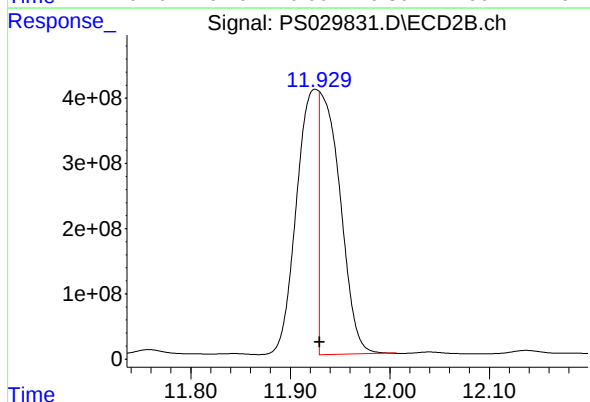
#15 Picloram

R.T.: 10.698 min
Delta R.T.: -0.015 min
Response: 8633761964
Conc: 557.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

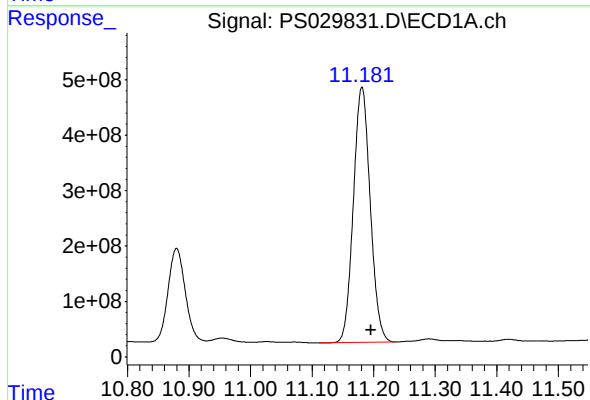
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025



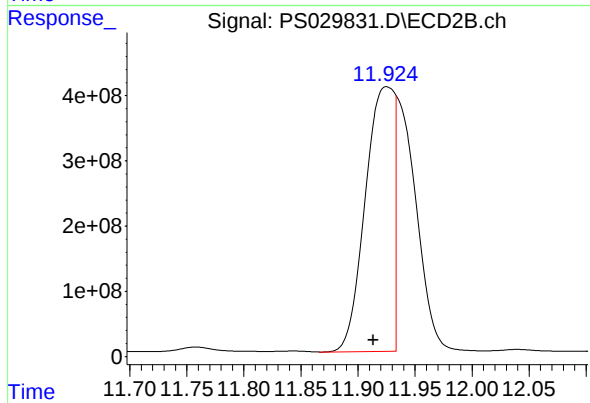
#15 Picloram

R.T.: 11.929 min
Delta R.T.: 0.000 min
Response: 5798512201
Conc: 490.38 ng/ml m



#16 DCPA

R.T.: 11.181 min
Delta R.T.: -0.014 min
Response: 8770580516
Conc: 627.99 ng/ml



#16 DCPA

R.T.: 11.924 min
Delta R.T.: 0.011 min
Response: 6979768251
Conc: 788.62 ng/ml m

Manual Integration Report

Sequence:

PS040225

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC750	PS029659.D	DCPA #2	Abdul	4/3/2025 9:24:54 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC750	PS029659.D	Picloram #2	Abdul	4/3/2025 9:24:54 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1000	PS029660.D	DCPA #2	Abdul	4/3/2025 9:24:59 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1000	PS029660.D	Picloram #2	Abdul	4/3/2025 9:24:59 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1500	PS029661.D	DCPA #2	Abdul	4/3/2025 9:25:02 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1500	PS029661.D	Picloram #2	Abdul	4/3/2025 9:25:02 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICV750	PS029662.D	DCPA #2	Abdul	4/3/2025 9:25:06 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICV750	PS029662.D	Picloram #2	Abdul	4/3/2025 9:25:06 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software

Manual Integration Report

Sequence:

ps041625

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029823.D	2,4-DB	Abdul	4/17/2025 8:04:59 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029823.D	2,4-DB #2	Abdul	4/17/2025 8:04:59 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029823.D	DCPA #2	Abdul	4/17/2025 8:04:59 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029823.D	MCPA	Abdul	4/17/2025 8:04:59 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029823.D	Picloram #2	Abdul	4/17/2025 8:04:59 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
PB167608BL	PS029824.D	2,4-DCAA	Abdul	4/17/2025 8:05:03 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
PB167587TB	PS029826.D	2,4-DCAA	Abdul	4/17/2025 8:05:11 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1803-01	PS029827.D	2,4-DCAA	Abdul	4/17/2025 8:05:15 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	3,5-DICHLOROBENZOI C ACID	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	4-Nitrophenol	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	Dalapon #2	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	DCPA #2	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software

Manual Integration Report

Sequence:	ps041625	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1800-03MS	PS029830.D	DICAMBA	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	DICAMBA #2	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	MCPA	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	Picloram #2	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	2,4-DB	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	2,4-DB #2	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	3,5-DICHLOROBENZOI C ACID	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	4-Nitrophenol	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	4-Nitrophenol #2	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	Dalapon #2	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	DCPA #2	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	DICAMBA	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software

Manual Integration Report

Sequence:	ps041625	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1800-03MSD	PS029831.D	MCPA	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MSD	PS029831.D	Picloram #2	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029833.D	2,4-DB	Abdul	4/17/2025 8:05:34 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029833.D	2,4-DB #2	Abdul	4/17/2025 8:05:34 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029833.D	DCPA #2	Abdul	4/17/2025 8:05:34 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029833.D	MCPA	Abdul	4/17/2025 8:05:34 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
HSTDCCC750	PS029833.D	Picloram #2	Abdul	4/17/2025 8:05:34 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software

Manual Integration Report

Sequence:

ps041725

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS029835.D	2,4-DCAA	Abdul	4/18/2025 7:40:56 AM	 	 	Peak Integrated by Software
I.BLK	PS029835.D	2,4-DCAA #2	Abdul	4/18/2025 7:40:56 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029836.D	DCCA #2	Abdul	4/18/2025 7:41:00 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029836.D	MCPA	Abdul	4/18/2025 7:41:00 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029836.D	Picloram #2	Abdul	4/18/2025 7:41:00 AM	 	 	Peak Integrated by Software
PB167608BS	PS029837.D	DCCA #2	Abdul	4/18/2025 7:41:04 AM	 	 	Peak Integrated by Software
PB167608BS	PS029837.D	MCPA	Abdul	4/18/2025 7:41:04 AM	 	 	Peak Integrated by Software
PB167608BS	PS029837.D	Picloram #2	Abdul	4/18/2025 7:41:04 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029839.D	DCCA #2	Abdul	4/18/2025 7:41:08 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029839.D	MCPA	Abdul	4/18/2025 7:41:08 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029839.D	Picloram #2	Abdul	4/18/2025 7:41:08 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029849.D	DCCA	Abdul	4/18/2025 7:41:47 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029849.D	DCCA #2	Abdul	4/18/2025 7:41:47 AM	 	 	Peak Integrated by Software



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

Manual Integration Report

Sequence:	ps041725	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029849.D	MCPA	Abdul	4/18/2025 7:41:47 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS029849.D	Picloram #2	Abdul	4/18/2025 7:41:47 AM	 	 	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS040225

Review By	Abdul	Review On	4/3/2025 9:25:38 AM
Supervise By	mohammad	Supervise On	4/4/2025 7:53:55 AM
SubDirectory	PS040225	HP Acquire Method	HP Processing Method ps040225 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	PS029655.D	02 Apr 2025 16:20	AR\AJ	Ok
2	I.BLK	PS029656.D	02 Apr 2025 16:44	AR\AJ	Ok
3	HSTDICC200	PS029657.D	02 Apr 2025 17:32	AR\AJ	Ok
4	HSTDICC500	PS029658.D	02 Apr 2025 17:56	AR\AJ	Ok
5	HSTDICC750	PS029659.D	02 Apr 2025 18:44	AR\AJ	Ok,M
6	HSTDICC1000	PS029660.D	02 Apr 2025 19:32	AR\AJ	Ok,M
7	HSTDICC1500	PS029661.D	02 Apr 2025 20:44	AR\AJ	Ok,M
8	HSTDICV750	PS029662.D	02 Apr 2025 21:32	AR\AJ	Ok,M
9	I.BLK	PS029663.D	02 Apr 2025 21:56	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS041625

Review By	Abdul	Review On	4/17/2025 8:05:57 AM
Supervise By	mohammad	Supervise On	4/18/2025 1:19:34 AM
SubDirectory	PS041625	HP Acquire Method	HP Processing Method ps040225 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	PS029821.D	16 Apr 2025 14:41	AR\AJ	Ok
2	I.BLK	PS029822.D	16 Apr 2025 15:05	AR\AJ	Ok
3	HSTDCCC750	PS029823.D	16 Apr 2025 16:48	AR\AJ	Ok,M
4	PB167608BL	PS029824.D	16 Apr 2025 17:12	AR\AJ	Ok,M
5	PB167608BS	PS029825.D	16 Apr 2025 17:36	AR\AJ	Not Ok
6	PB167587TB	PS029826.D	16 Apr 2025 18:01	AR\AJ	Ok,M
7	Q1803-01	PS029827.D	16 Apr 2025 18:25	AR\AJ	Ok,M
8	Q1803-02	PS029828.D	16 Apr 2025 18:49	AR\AJ	Ok
9	Q1800-03	PS029829.D	16 Apr 2025 19:13	AR\AJ	Ok,M
10	Q1800-03MS	PS029830.D	16 Apr 2025 19:37	AR\AJ	Ok,M
11	Q1800-03MSD	PS029831.D	16 Apr 2025 20:01	AR\AJ	Ok,M
12	I.BLK	PS029832.D	16 Apr 2025 20:25	AR\AJ	Ok
13	HSTDCCC750	PS029833.D	16 Apr 2025 20:49	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS041725

Review By	Abdul	Review On	4/18/2025 7:42:09 AM
Supervise By		Supervise On	
SubDirectory	PS041725	HP Acquire Method	HP Processing Method ps040225 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	PS029834.D	17 Apr 2025 08:13	AR\AJ	Ok
2	I.BLK	PS029835.D	17 Apr 2025 08:37	AR\AJ	Ok,NS
3	HSTDCCC750	PS029836.D	17 Apr 2025 09:01	AR\AJ	Ok,NS
4	PB167608BS	PS029837.D	17 Apr 2025 12:55	AR\AJ	Ok,NS
5	I.BLK	PS029838.D	17 Apr 2025 15:37	AR\AJ	Ok
6	HSTDCCC750	PS029839.D	17 Apr 2025 16:01	AR\AJ	Ok,NS
7	PB167620BL	PS029840.D	17 Apr 2025 18:39	AR\AJ	Ok,NS
8	PB167620BS	PS029841.D	17 Apr 2025 19:03	AR\AJ	Not Ok
9	Q1787-09	PS029842.D	17 Apr 2025 19:27	AR\AJ	Ok,NS
10	Q1788-01	PS029843.D	17 Apr 2025 19:51	AR\AJ	Ok,NS
11	Q1788-01MS	PS029844.D	17 Apr 2025 20:15	AR\AJ	Not Ok
12	Q1788-01MSD	PS029845.D	17 Apr 2025 20:39	AR\AJ	Not Ok
13	Q1808-01	PS029846.D	17 Apr 2025 21:03	AR\AJ	Ok
14	Q1808-03	PS029847.D	17 Apr 2025 21:27	AR\AJ	Ok,NS
15	I.BLK	PS029848.D	17 Apr 2025 21:51	AR\AJ	Ok
16	HSTDCCC750	PS029849.D	17 Apr 2025 22:15	AR\AJ	Ok,NS

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS040225

Review By	Abdul	Review On	4/3/2025 9:25:38 AM
Supervise By	mohammad	Supervise On	4/4/2025 7:53:55 AM
SubDirectory	PS040225	HP Acquire Method	HP Processing Method ps040225 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	PS029655.D	02 Apr 2025 16:20		AR\AJ	Ok
2	I.BLK	I.BLK	PS029656.D	02 Apr 2025 16:44		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029657.D	02 Apr 2025 17:32		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029658.D	02 Apr 2025 17:56		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029659.D	02 Apr 2025 18:44		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS029660.D	02 Apr 2025 19:32		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS029661.D	02 Apr 2025 20:44		AR\AJ	Ok,M
8	HSTDICV750	ICVPS040225	PS029662.D	02 Apr 2025 21:32		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS029663.D	02 Apr 2025 21:56		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS041625

Review By	Abdul	Review On	4/17/2025 8:05:57 AM
Supervise By	mohammad	Supervise On	4/18/2025 1:19:34 AM
SubDirectory	PS041625	HP Acquire Method	HP Processing Method ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24066 PP24069,PP24070

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029821.D	16 Apr 2025 14:41		AR\AJ	Ok
2	I.BLK	I.BLK	PS029822.D	16 Apr 2025 15:05		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS029823.D	16 Apr 2025 16:48		AR\AJ	Ok,M
4	PB167608BL	PB167608BL	PS029824.D	16 Apr 2025 17:12		AR\AJ	Ok,M
5	PB167608BS	PB167608BS	PS029825.D	16 Apr 2025 17:36	Comp#2,8,9,10,11,12,16 recovery fail	AR\AJ	Not Ok
6	PB167587TB	PB167587TB	PS029826.D	16 Apr 2025 18:01		AR\AJ	Ok,M
7	Q1803-01	WEST-BAY	PS029827.D	16 Apr 2025 18:25		AR\AJ	Ok,M
8	Q1803-02	FUEL-MONITORING	PS029828.D	16 Apr 2025 18:49		AR\AJ	Ok
9	Q1800-03	WC-A4-01-C	PS029829.D	16 Apr 2025 19:13		AR\AJ	Ok,M
10	Q1800-03MS	WC-A4-01-CMS	PS029830.D	16 Apr 2025 19:37	some compound recovery fail	AR\AJ	Ok,M
11	Q1800-03MSD	WC-A4-01-CMSD	PS029831.D	16 Apr 2025 20:01	some compound recovery fail	AR\AJ	Ok,M
12	I.BLK	I.BLK	PS029832.D	16 Apr 2025 20:25		AR\AJ	Ok
13	HSTDCCC750	HSTDCCC750	PS029833.D	16 Apr 2025 20:49		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS041725

Review By	Abdul	Review On	4/18/2025 7:42:09 AM
Supervise By		Supervise On	
SubDirectory	PS041725	HP Acquire Method	HP Processing Method ps040225 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	PS029834.D	17 Apr 2025 08:13		AR\AJ	Ok
2	I.BLK	I.BLK	PS029835.D	17 Apr 2025 08:37		AR\AJ	Ok,NS
3	HSTDCCC750	HSTDCCC750	PS029836.D	17 Apr 2025 09:01		AR\AJ	Ok,NS
4	PB167608BS	PB167608BS	PS029837.D	17 Apr 2025 12:55		AR\AJ	Ok,NS
5	I.BLK	I.BLK	PS029838.D	17 Apr 2025 15:37		AR\AJ	Ok
6	HSTDCCC750	HSTDCCC750	PS029839.D	17 Apr 2025 16:01		AR\AJ	Ok,NS
7	PB167620BL	PB167620BL	PS029840.D	17 Apr 2025 18:39		AR\AJ	Ok,NS
8	PB167620BS	PB167620BS	PS029841.D	17 Apr 2025 19:03	DCCA Recovery high	AR\AJ	Not Ok
9	Q1787-09	TP-1	PS029842.D	17 Apr 2025 19:27		AR\AJ	Ok,NS
10	Q1788-01	WC-1	PS029843.D	17 Apr 2025 19:51		AR\AJ	Ok,NS
11	Q1788-01MS	WC-1MS	PS029844.D	17 Apr 2025 20:15	F Flag coming , some compound recovery fail	AR\AJ	Not Ok
12	Q1788-01MSD	WC-1MSD	PS029845.D	17 Apr 2025 20:39	F Flag coming , some compound recovery fail , RPD Fail	AR\AJ	Not Ok
13	Q1808-01	OILY-SOIL-PILE	PS029846.D	17 Apr 2025 21:03		AR\AJ	Ok
14	Q1808-03	LAW-25-0060	PS029847.D	17 Apr 2025 21:27		AR\AJ	Ok,NS
15	I.BLK	I.BLK	PS029848.D	17 Apr 2025 21:51		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS029849.D	17 Apr 2025 22:15		AR\AJ	Ok,NS

M : Manual Integration

SOP ID :	M1311-TCLP-15	
SDG No :	N/A	Start Prep Date : 04/14/2025 Time : 16:00
Weigh By :	JP	End Prep Date : 04/15/2025 Time : 10:25
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : N/A 70
Extraction By :	JP	Initial Room Temperature: 23 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pipette ID :	WC	TCLP Technician Signature : 
Tumbler ID :	T-1	Supervisor By : 12
TCLP Filter ID :	115525	

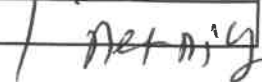
Standardized Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

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	N/A	W1931,W1934,W3171,W3172
pH Strips	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. q1808-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/15/25 11:50	 / TCLP Room	SPS. RJ / EXT
	Preparation Group	Analysis Group



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
PB167587TB	LEB587	08	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q1787-12	TP-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.5	T-1
Q1788-04	WC-1	02	100.03	2000	N/A	N/A	N/A	8.0	1.0	T-1
Q1800-03	WC-A4-01-C	03	100.02	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q1803-01	WEST-BAY	04	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1803-02	FUEL-MONITORING	05	100.04	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q1808-02	OILY-SOIL-PILE	06	100.03	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1808-04	LAW-25-0060	07	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167587TB	LEB587	N/A	N/A	N/A	N/A	N/A	N/A
Q1787-12	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1788-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1800-03	WC-A4-01-C	N/A	N/A	N/A	N/A	100	N/A
Q1803-01	WEST-BAY	N/A	N/A	N/A	N/A	100	N/A
Q1803-02	FUEL-MONITORING	N/A	N/A	N/A	N/A	100	N/A
Q1808-02	OILY-SOIL-PILE	N/A	N/A	N/A	N/A	100	N/A
Q1808-04	LAW-25-0060	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
PB167587TB	LEB587	N/A	N/A	N/A	N/A	#1	4.93
Q1787-12	TP-1	5.01	96.5	10.0	4.0	#1	4.93
Q1788-04	WC-1	5.02	96.5	9.5	3.5	#1	4.93
Q1800-03	WC-A4-01-C	5.02	96.5	12.5	4.5	#1	4.93
Q1803-01	WEST-BAY	5.03	96.5	8.6	3.5	#1	4.93
Q1803-02	FUEL-MONITORING	5.04	96.5	8.4	3.5	#1	4.93
Q1808-02	OILY-SOIL-PILE	5.02	96.5	9.7	4.0	#1	4.93
Q1808-04	LAW-25-0060	5.01	96.5	7.6	3.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1808

WorkList ID : 188908

Department : TCLP Extraction

Date : 04-14-2025 13:49:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1787-12	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/10/2025	1311
Q1788-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/11/2025	1311
Q1800-03	WC-A4-01-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	L41	04/11/2025	1311
Q1803-01	WEST-BAY	Solid	TCLP Extraction	Cool 4 deg C	SCAL01	L31	04/10/2025	1311
Q1803-02	FUEL-MONITORING	Solid	TCLP Extraction	Cool 4 deg C	SCAL01	L31	04/10/2025	1311
Q1808-02	OILY-SOIL-PILE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/14/2025	1311
Q1808-04	LAW-25-0060	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/14/2025	1311

Date/Time 04-14-25 14:50

Raw Sample Received by: SP WPC

Raw Sample Relinquished by: SAU SA

Date/Time 04-14-25

Raw Sample Received by: SAU SA

Raw Sample Relinquished by: SAU SA

18:00

SOP ID:	M8151A-Herbicide-22		
Clean Up SOP #:	N/A	Extraction Start Date :	04/16/2025
Matrix :	Water	Extraction Start Time :	08:34
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RS
Balance ID:	N/A	Extraction End Date :	04/16/2025
pH Strip Lot#:	E3880	Extraction End Time :	15:15
		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	PP24218
Surrogate	1.0ML	5000 PPB	PP24424
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	EP2576
12N H2SO4	N/A	EP2552
NAOH 6N	N/A	EP2553
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2603
Hexane	N/A	E3916
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.

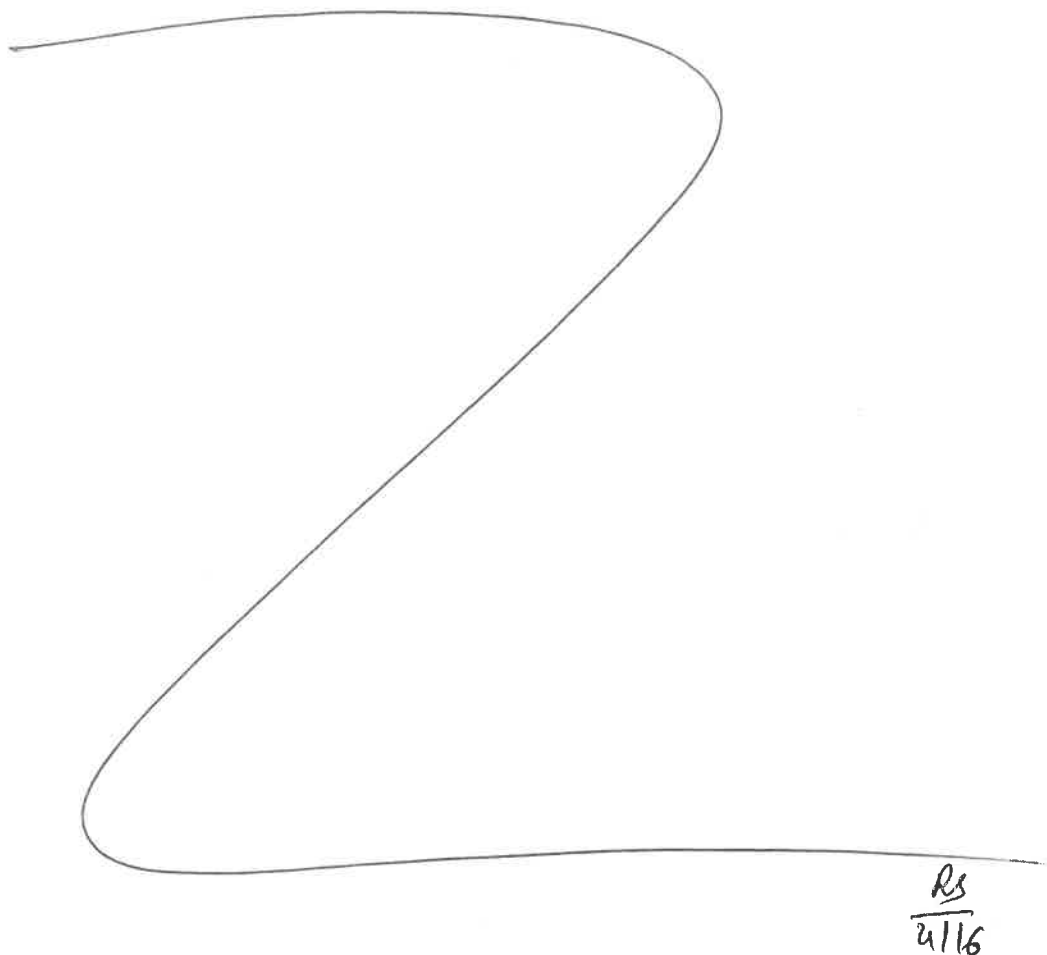
KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/16/25	RS (E-4 Lab)	Y.P. RUPESH
15:20	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 04/16/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167587TB	PB167587TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-1
PB167608BL	HBLK608	TCLP Herbicide	1000	6	RUPESH	ritesh	10			2
PB167608BS	HLCS608	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
Q1800-03	WC-A4-01-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		4
Q1800-03MS	WC-A4-01-CMS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
Q1800-03MS D	WC-A4-01-CMSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
Q1803-01	WEST-BAY	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7
Q1803-02	FUEL-MONITORING	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		8



TCLP EXTRACTION LOGPAGE

PB167587

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
PB167587TB	LEB587	08	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q1787-12	TP-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.5	T-1
Q1788-04	WC-1	02	100.03	2000	N/A	N/A	N/A	8.0	1.0	T-1
Q1800-03	WC-A4-01-C	03	100.02	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q1803-01	WEST-BAY	04	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1803-02	FUEL-MONITORING	05	100.04	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q1808-02	OILY-SOIL-PILE	06	100.03	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1808-04	LAW-25-0060	07	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1

04/15/25
11:50

Prep Standard - Chemical Standard Summary

Order ID : Q1803

Test : TCLP Herbicide

Prepbatch ID : PB167608,

Sequence ID/Qc Batch ID: ps041625,ps041725,

Standard ID :

EP2552,EP2553,EP2576,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,PP24218,PP24424,

Chemical ID :

E3370,E3551,E3554,E3657,E3826,E3876,E3881,E3902,M5173,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P13514,P13515,P13529,P13530,P13531,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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
601	Acidified Sodium Sulphate 2	EP2576	01/06/2025	06/02/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025
<u>FROM</u>	100.00000ml of E3370 + 150.00000ml of M5173 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram							

<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
<u>FROM</u>	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							

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>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24062	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml of E3826 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24061 = Final Quantity: 1.000 ml

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)	PP24218	03/05/2025	08/25/2025	Abdul Mirza	None	None	Yogesh Patel
								03/06/2025

FROM 0.50000ml of P13531 + 1.00000ml of P13529 + 1.00000ml of P13530 + 47.50000ml of E3876 = 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)	PP24424	03/26/2025	09/18/2025	Abdul Mirza	None	None	Yogesh Patel
								04/02/2025

FROM 1.25000ml of P13514 + 1.25000ml of P13515 + 97.50000ml of E3902 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	07/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9335-02 / Iso-Octane (2,2,4-Trimethypentane) 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	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

CHEMICAL RECEIPT LOG BOOK

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0170243	05/26/2025	11/26/2024 / Ankita	04/06/2021 / dhaval	P10549

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11181

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12619

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12629

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0199844	05/26/2025	11/26/2024 / Ankita	07/24/2023 / Abdul	P12686

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	09/26/2025	03/26/2025 / Abdul	08/16/2024 / yogesh	P13514

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	09/26/2025	03/26/2025 / Abdul	08/16/2024 / yogesh	P13515

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	09/05/2025	03/05/2025 / Abdul	09/03/2024 / Abdul	P13529

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	09/05/2025	03/05/2025 / Abdul	09/03/2024 / Abdul	P13529

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	09/05/2025	03/05/2025 / Abdul	09/03/2024 / Abdul	P13530

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	09/05/2025	03/05/2025 / Abdul	09/03/2024 / Abdul	P13530

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	09/05/2025	03/05/2025 / Abdul	09/03/2024 / Abdul	P13531

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	09/05/2025	03/05/2025 / Abdul	09/03/2024 / Abdul	P13531

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

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

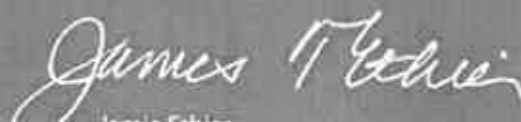
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

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.

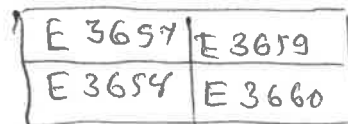
This document has been electronically produced and is valid without a signature.

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

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.

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



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

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

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:

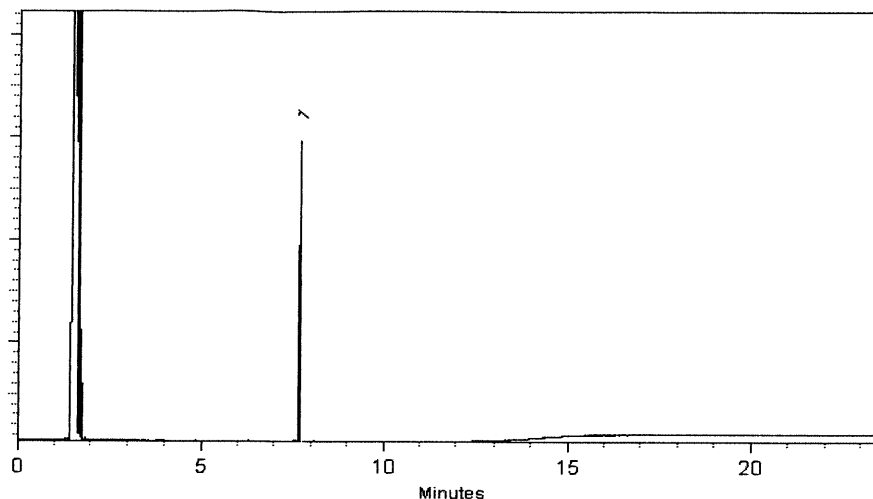
250°C

Det. Temp:

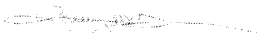
330°C

Det. Type:

FID

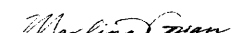


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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
↓
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:

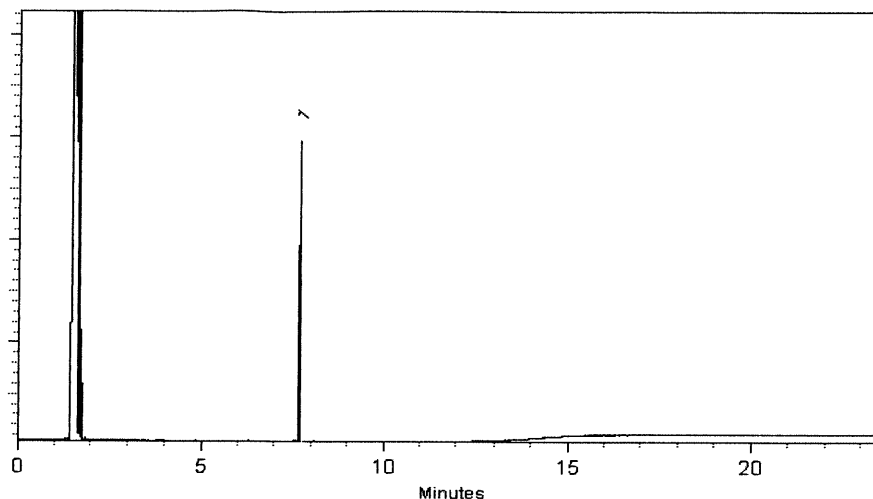
250°C

Det. Temp:

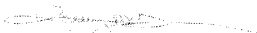
330°C

Det. Type:

FID

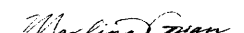


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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

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
↓
P11186
—
AR
01/02/21



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
✓ *Paul* = 7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	3,5-Dichlorobenzoic acid methyl ester CAS # 2905-67-1 (Lot 3903900) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176 µg/mL Gravimetric +/- 6.7480 µg/mL Unstressed +/- 6.7480 µg/mL Stressed
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315 µg/mL Gravimetric +/- 6.8141 µg/mL Unstressed +/- 6.8141 µg/mL Stressed
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed

8	Acifluorfen methyl ester		200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7	(Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%			+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

Column:

30m x 0.25mm x 0.25µm
 Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
 @ 20°C/min. (hold 10 min.)

Inj. Temp:

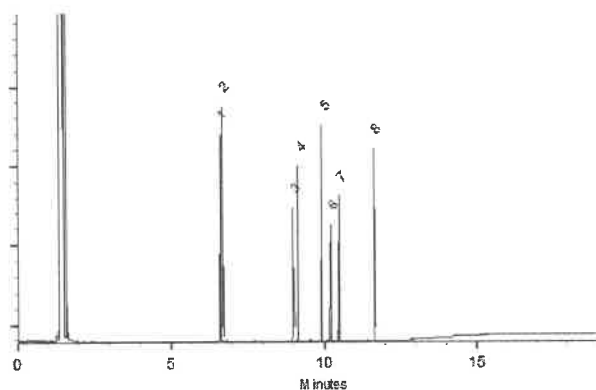
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
 Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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. : 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:

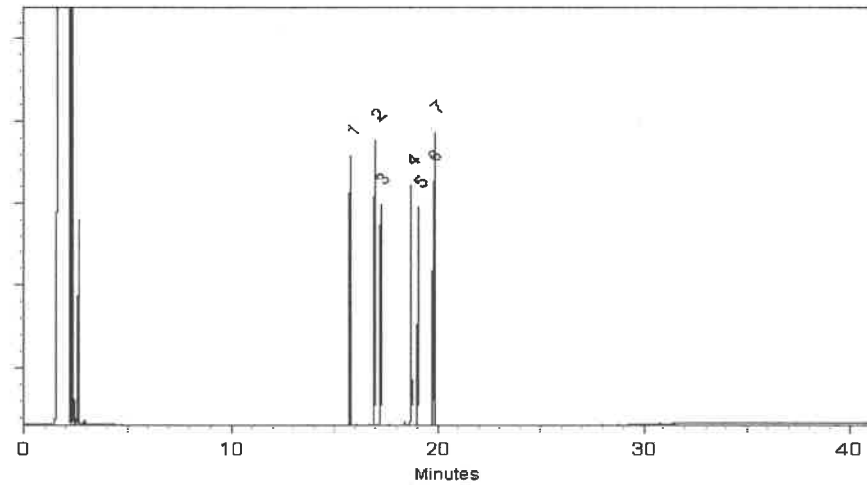
FID

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

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. : 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	MCCP (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:

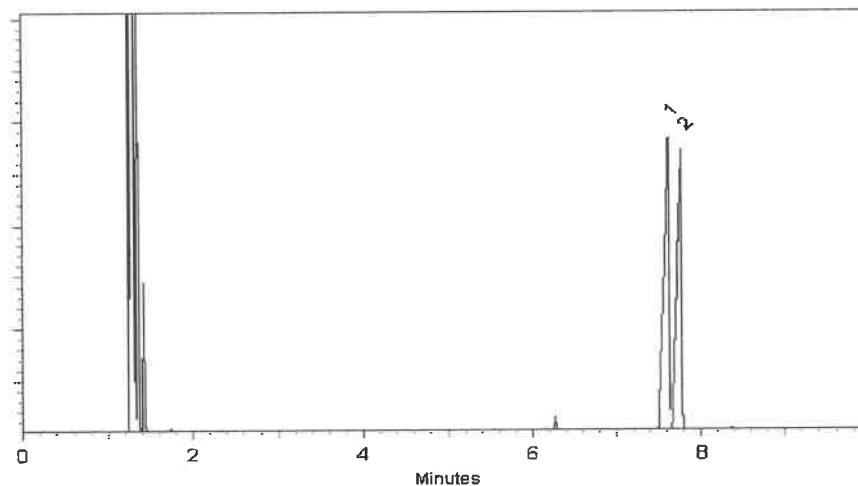
FID

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.

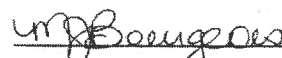
Expiration of Certification:

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.

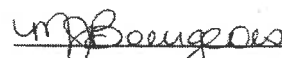
Expiration of Certification:

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

P 12706 / (10)
↓
P 12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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.

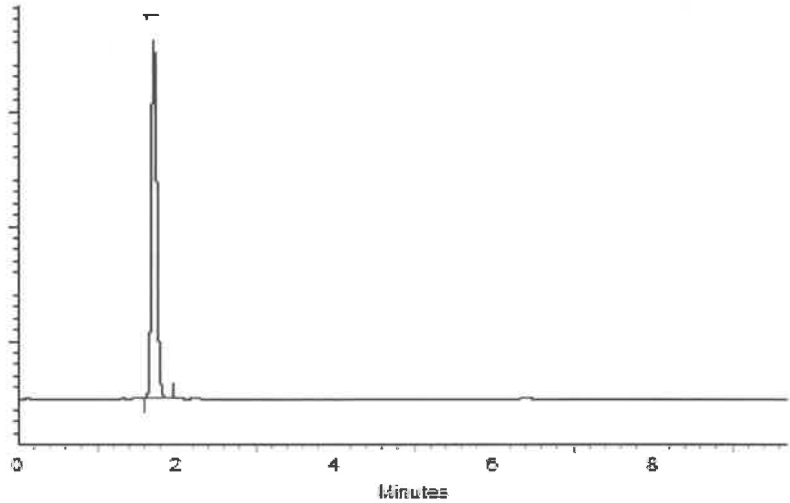
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

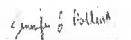


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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:

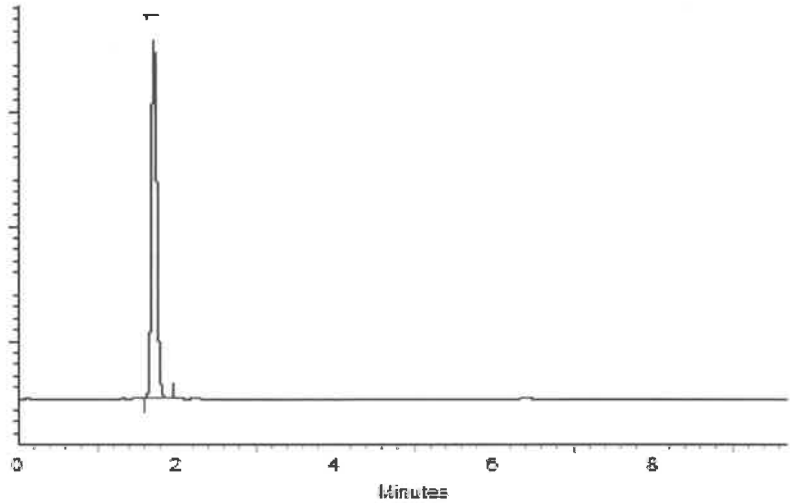
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

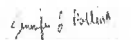


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- 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.

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.

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



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 788-9222

www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1803

COC Number:

CLIENT INFORMATION		PROJECT INFORMATION				BILLING INFORMATION															
COMPANY: Scalamandre Tully JV		PROJECT NAME: DOT Harper Street Yard				BILL TO: Same					PO#										
ADDRESS: 57 Seaview Blvd		PROJECT #: 23657		LOCATION:		ADDRESS:															
CITY: Pt Washington STATE: NY ZIP: 11050		PROJECT MANAGER:				CITY:					STATE: ZIP:										
ATTENTION: Dean Devoe		E-MAIL:				ATTENTION:					PHONE:										
PHONE: 718 446 7000 FAX:		PHONE: FAX:				ANALYSIS															
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION				PRESERVATIVES															
FAX: _____ DAYS* HARD COPY: _____ DAYS* EDD _____ DAYS* * TO BE APPROVED BY ALLIANCE STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		* RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____				Full TCLP RIC 1 2 3 4 5 6 7 8 9															
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles		COMMENTS									
						COMP GRAB		DATE TIME				<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other									
1.		West Bay		Soil				4/10/25 1230		X X											
2.		Fuel Monitoring		Soil				4/10/25 1230		X X											
3.																					
4.																					
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																					
RELINQUISHED BY SAMPLER		DATE/TIME April 10, 2025		RECEIVED BY		4-14-25 115		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0													
1. D Devoe				1.				MeOH extraction requires an additional 4oz. Jar for percent solid													
RELINQUISHED BY		DATE/TIME		RECEIVED BY				Comments:													
2.				2.																	
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY				Page _____ of _____		SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight		ALLIANCE: ☐ Picked Up ☐ Overnight		Shipment Complete							
3.				3.										YES NO							
WHITE - ALLIANCE COPY FOR RETURN TO CLIENT														YELLOW - ALLIANCE COPY				PINK - SAMPLER COPY			

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