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

Cover Page

Order ID : Q1800

Project ID : 540 Degraw St, Brooklyn, NY - E9309

Client : ENTACT

Lab Sample Number	Client Sample Number
Q1800-01	WC-A4-01-G
Q1800-02	WC-A4-01-C
Q1800-03	WC-A4-01-C
Q1800-04	WC-A4-01-C

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: 4/19/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

ENTACT
Project Name: 540 Degraw St, Brooklyn, NY - E9309
Project # N/A
Chemtech Project # Q1800
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/14/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS and TVS. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB167608BL [2,4-DCAA(1) - 136%] these compound did not meet the NJDKQP criteria but met the in-house criteria

The Retention Times were acceptable for all samples.

The MS {Q1800-03MS} with File ID: PS029830.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[147%] and 2,4-D[143%] these compound did not meet the NJDKQP criteria and in-house criteria, Due to matrix interference.

The MSD {Q1800-03MSD} with File ID: PS029831.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[147%] and 2,4-D[142%] these compound did not meet the NJDKQP criteria and in-house criteria, Due to matrix interference.

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The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

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

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

Signature_____

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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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1800**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PRADIP PRAJAPATI** **Date:** **04/19/2025**

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

LAB CHRONICLE

OrderID:	Q1800	**OrderDate:**	4/14/2025 10:17:00 AM
Client:	ENTACT	**Project:**	540 Degraw St, Brooklyn, NY - E9309
Contact:	Jarod Stanfield	**Location:**	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1800-02	**WC-A4-01-C**	**SOIL**			**04/11/25**			**04/14/25**
			PCB	8082A		04/15/25	04/15/25	
Q1800-03	**WC-A4-01-C**	**TCLP**			**04/11/25**			**04/14/25**
			TCLP Herbicide	8151A		04/16/25	04/16/25	
			TCLP Pesticide	8081B		04/16/25	04/16/25	

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Hit Summary Sheet

SW-846

SDG No.: **Order ID:**

Client: **Project ID:**

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration:

QC
SUMMARY

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

Surrogate Summary

SDG No.: Q1800

Client: ENTACT

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS029656.D	PIBLK-PS029656.D	2,4-DCAA	1	500	476	95		70 (39)	130 (175)
		2,4-DCAA	2	500	485	97		70 (39)	130 (175)
I.BLK-PS029822.D	PIBLK-PS029822.D	2,4-DCAA	1	500	581	116		70 (39)	130 (175)
		2,4-DCAA	2	500	547	109		70 (39)	130 (175)
PB167608BL	PB167608BL	2,4-DCAA	1	500	681	136	*	70 (39)	130 (175)
		2,4-DCAA	2	500	616	123		70 (39)	130 (175)
PB167587TB	PB167587TB	2,4-DCAA	1	500	638	128		70 (39)	130 (175)
		2,4-DCAA	2	500	603	121		70 (39)	130 (175)
Q1800-03	WC-A4-01-C	2,4-DCAA	1	500	543	109		70 (39)	130 (175)
		2,4-DCAA	2	500	537	107		70 (39)	130 (175)
Q1800-03MS	WC-A4-01-CMS	2,4-DCAA	1	500	519	104		70 (39)	130 (175)
		2,4-DCAA	2	500	500	100		70 (39)	130 (175)
Q1800-03MSD	WC-A4-01-CMSD	2,4-DCAA	1	500	516	103		70 (39)	130 (175)
		2,4-DCAA	2	500	491	98		70 (39)	130 (175)
I.BLK-PS029832.D	PIBLK-PS029832.D	2,4-DCAA	1	500	567	113		70 (39)	130 (175)
		2,4-DCAA	2	500	532	106		70 (39)	130 (175)
I.BLK-PS029835.D	PIBLK-PS029835.D	2,4-DCAA	1	500	558	112		70 (39)	130 (175)
		2,4-DCAA	2	500	522	104		70 (39)	130 (175)
PB167608BS	PB167608BS	2,4-DCAA	1	500	550	110		70 (39)	130 (175)
		2,4-DCAA	2	500	514	103		70 (39)	130 (175)
I.BLK-PS029838.D	PIBLK-PS029838.D	2,4-DCAA	1	500	522	104		70 (39)	130 (175)
		2,4-DCAA	2	500	532	106		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1800

Client: ENTACT

Analytical Method: 8151A **DataFile :** PS029830.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-A4-01-CMS**											
Q1800-03MS	2,4-D	50	0	71.3	ug/L	143	*			70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	73.5	ug/L	147	*			70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1800

Client: ENTACT

Analytical Method: 8151A **DataFile :** PS029831.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-A4-01-CMSD**											
Q1800-03MSD	2,4-D	50	0	70.8	ug/L	142	*	1		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	73.7	ug/L	147	*	0		70 (62)	130 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1800

Client: ENTACT

Analytical Method: 8151A **Datafile :** PS029837.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167608BS	2,4-D	5	5.20	ug/L	104				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167608BL

Lab Name: CHEMTECH Contract: ENTA05

Lab Code: CHEM Case No.: Q1800 SAS No.: Q1800 SDG NO.: Q1800

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
WC-A4-01-C	Q1800-03	PS029829.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:

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **PS029826.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/16/25
Client Sample ID:	PB167587TB	SDG No.:	Q1800
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	0.0092	U	0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0078	U	0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	638		70 (39) - 130 (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

Sample Results: **PS029826.D**

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

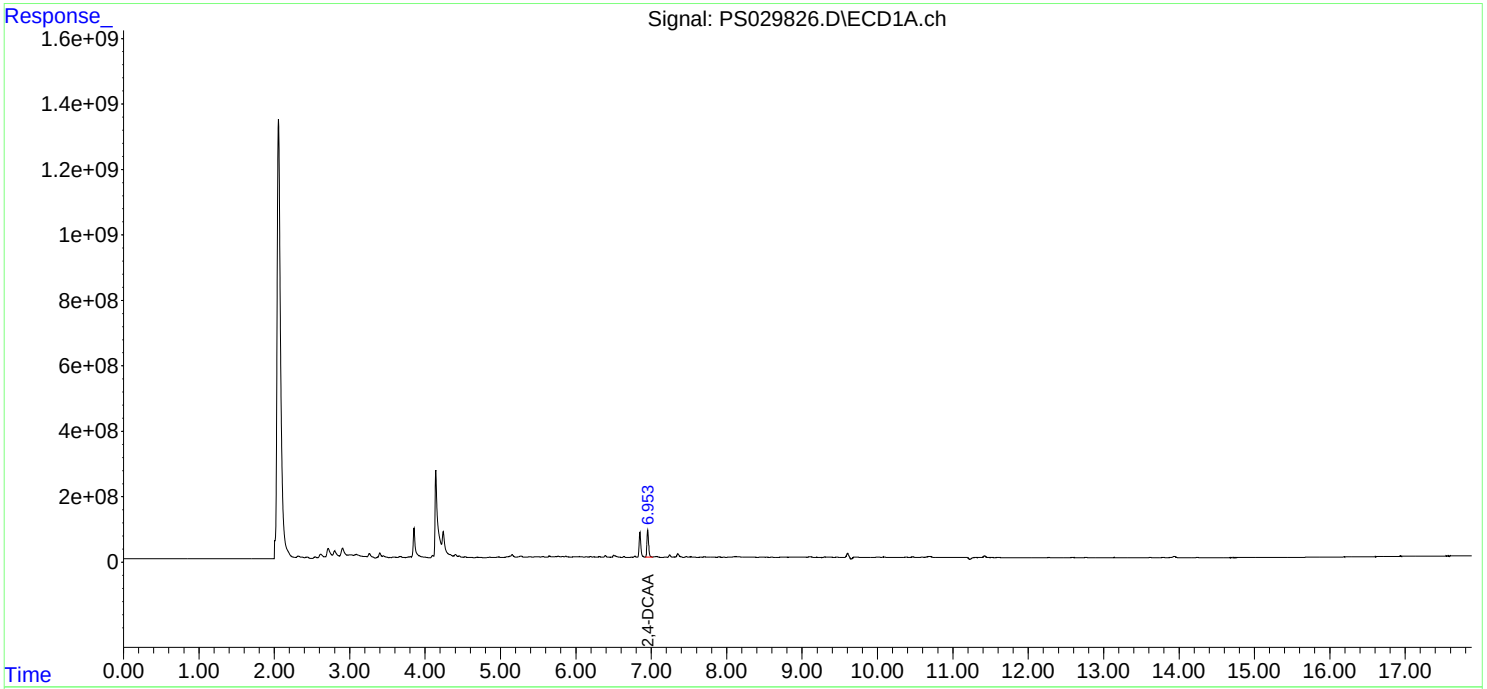
Instrument :
ECD_S
ClientSampleId :
PB167587TB

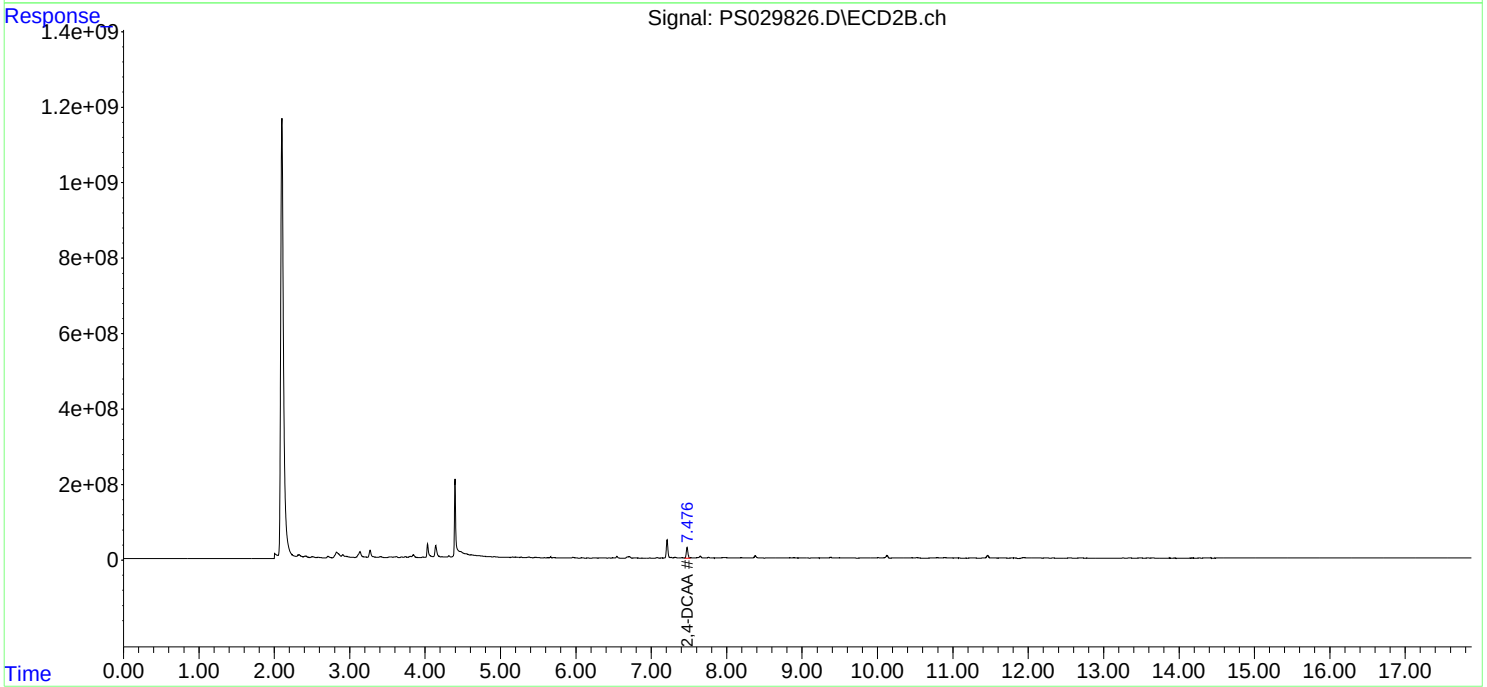
Manual Integrations APPROVED

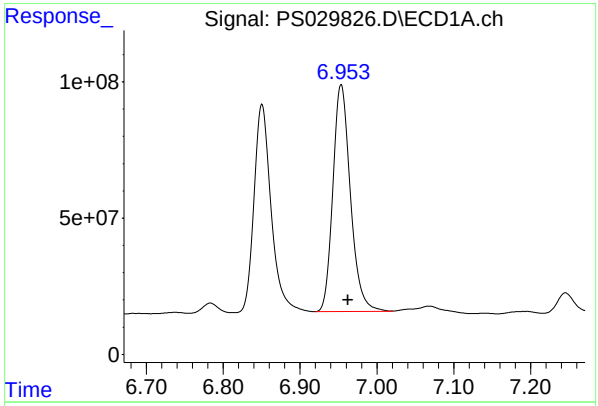
Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







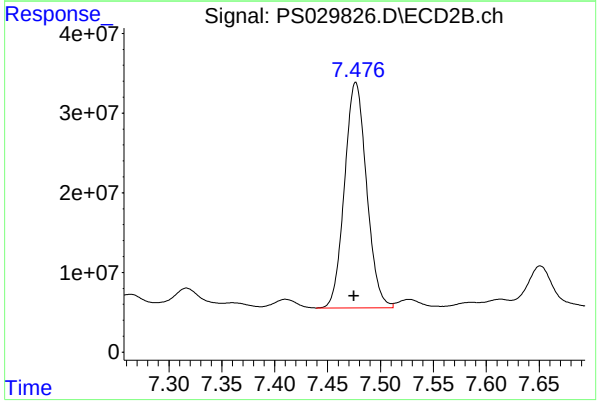
#4 2,4-DCAA

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

Raw Data: **PS029829.D**

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Fax : 908 789 8922

Report of Analysis

Client:	ENTACT	Date Collected:	04/11/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-C	SDG No.:	Q1800
Lab Sample ID:	Q1800-03	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
PS029829.D	1	04/16/25 08:34	04/16/25 19:13	PB167608

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0092	U	0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0078	U	0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	543		70 (39) - 130 (175)	109%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029829.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 19:13
Operator : AR\AJ
Sample : Q1800-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

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

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 01:22:43 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	7.475	1107.1E6	365.8E6	543.002	536.733
	Target Compounds						

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

Sample Results: **PS029829.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029829.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 19:13
Operator : AR\AJ
Sample : Q1800-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

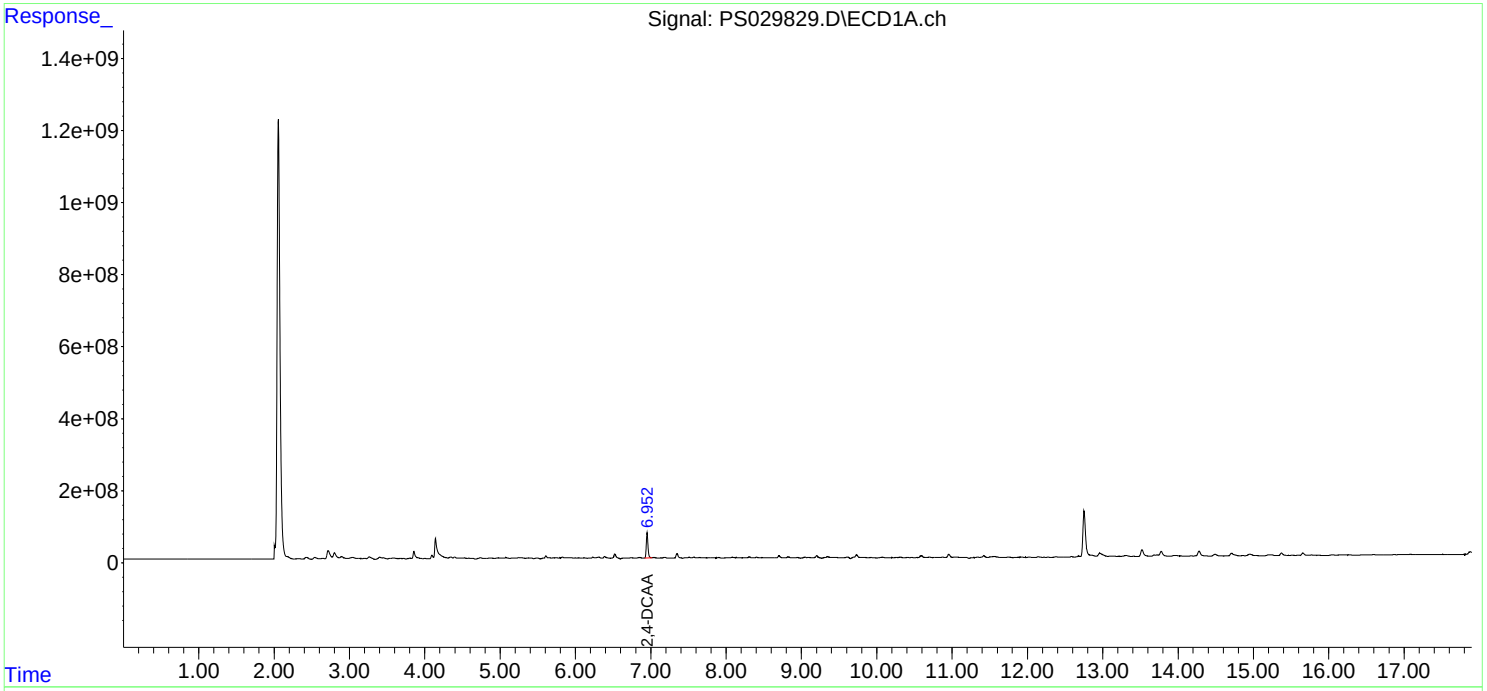
Instrument :
ECD_S
ClientSampleId :
WC-A4-01-C

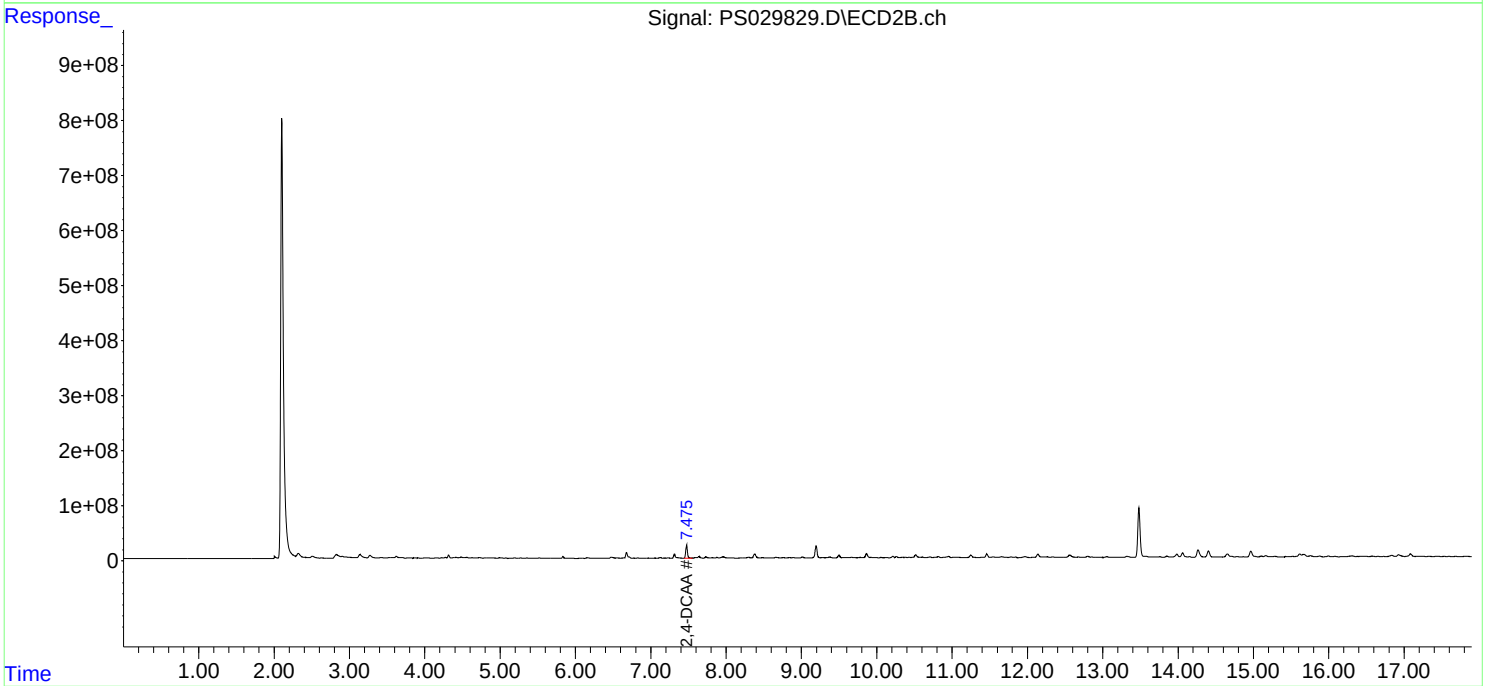
Manual Integrations APPROVED

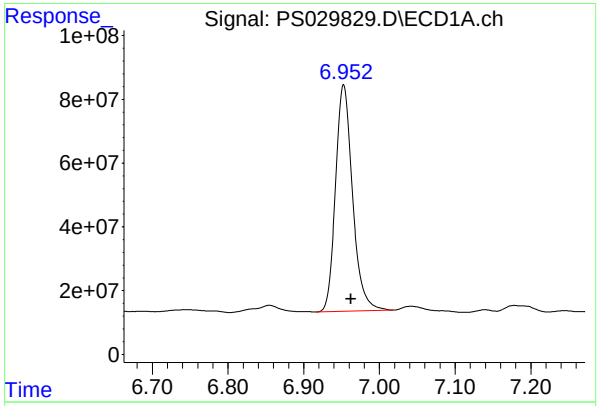
Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 17 01:22:43 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







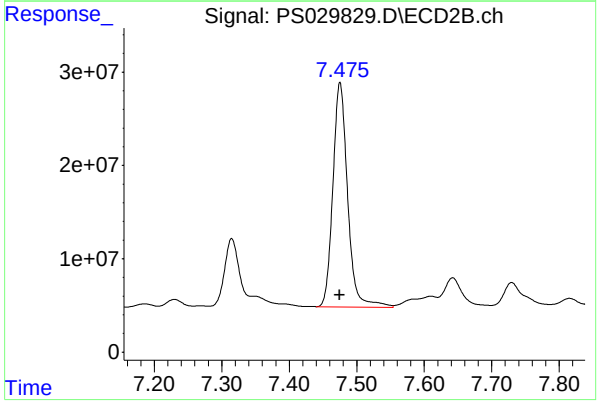
#4 2,4-DCAA

R.T.: 6.953 min
Delta R.T.: -0.010 min
Response: 1107089192
Conc: 543.00 ng/ml

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

Manual Integrations
APPROVED

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



#4 2,4-DCAA

R.T.: 7.475 min
Delta R.T.: 0.000 min
Response: 365790550
Conc: 536.73 ng/ml

CALIBRATION SUMMARY

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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: RT 200 = PS029657.D RT 500 = PS029658.D

RT 750 = PS029659.D RT 1000 = PS029660.D RT 1500 = PS029661.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
2,4-D	8.04	8.04	8.04	8.04	8.04	8.04	7.94	8.14
2,4-DCAA	6.96	6.96	6.96	6.96	6.96	6.96	6.86	7.06

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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: RT 200 = PS029657.D RT 500 = PS029658.D

RT 750 = PS029659.D RT 1000 = PS029660.D RT 1500 = PS029661.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.55	9.55	9.55	9.55	9.55	9.55	9.45	9.65
2,4-D	8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
2,4-DCAA	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 =** PS029657.D **CF 500 =** PS029658.D

CF 750 = PS029659.D **CF 1000 =** PS029660.D **CF 1500 =** PS029661.D

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

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 =** PS029657.D **CF 500 =** PS029658.D

CF 750 = PS029659.D **CF 1000 =** PS029660.D **CF 1500 =** PS029661.D

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

Quantitation Report (QT Reviewed)

ICAL Form

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	MCPP	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.

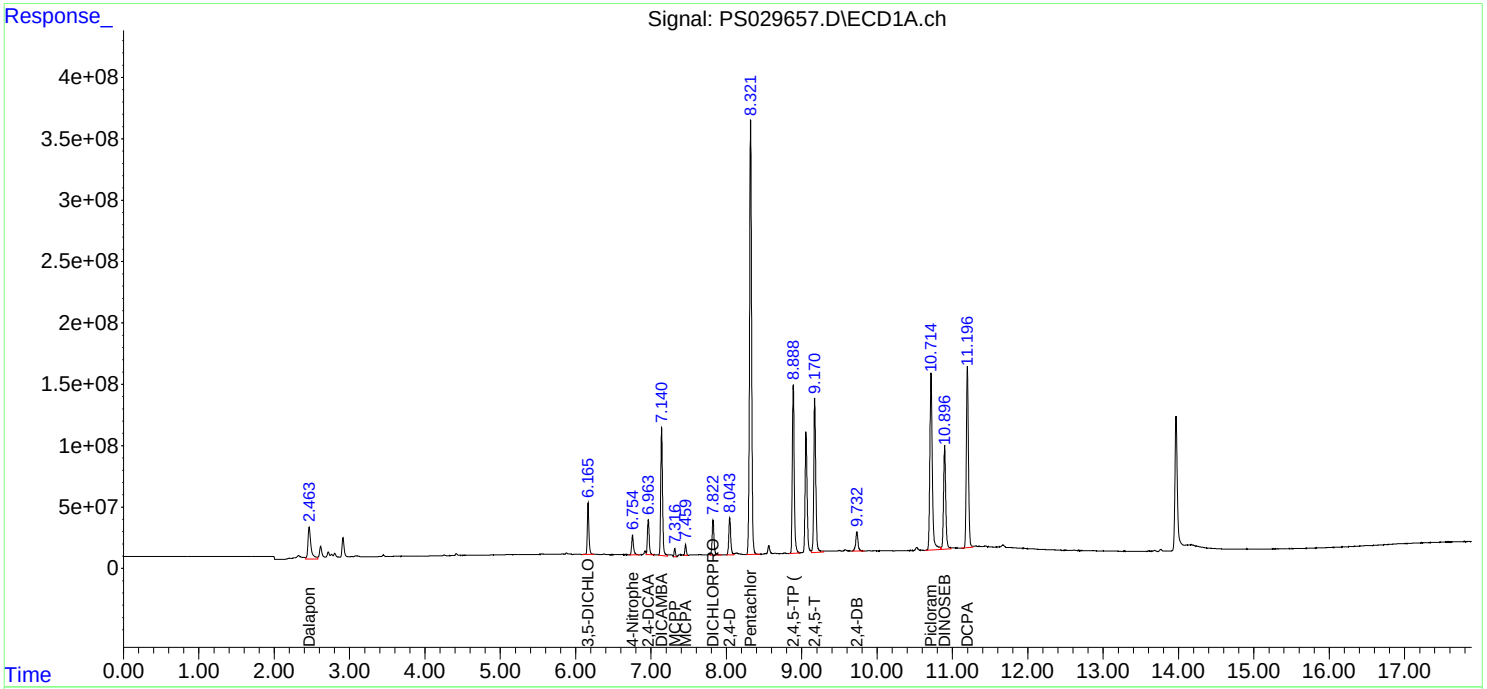
ICAL Form

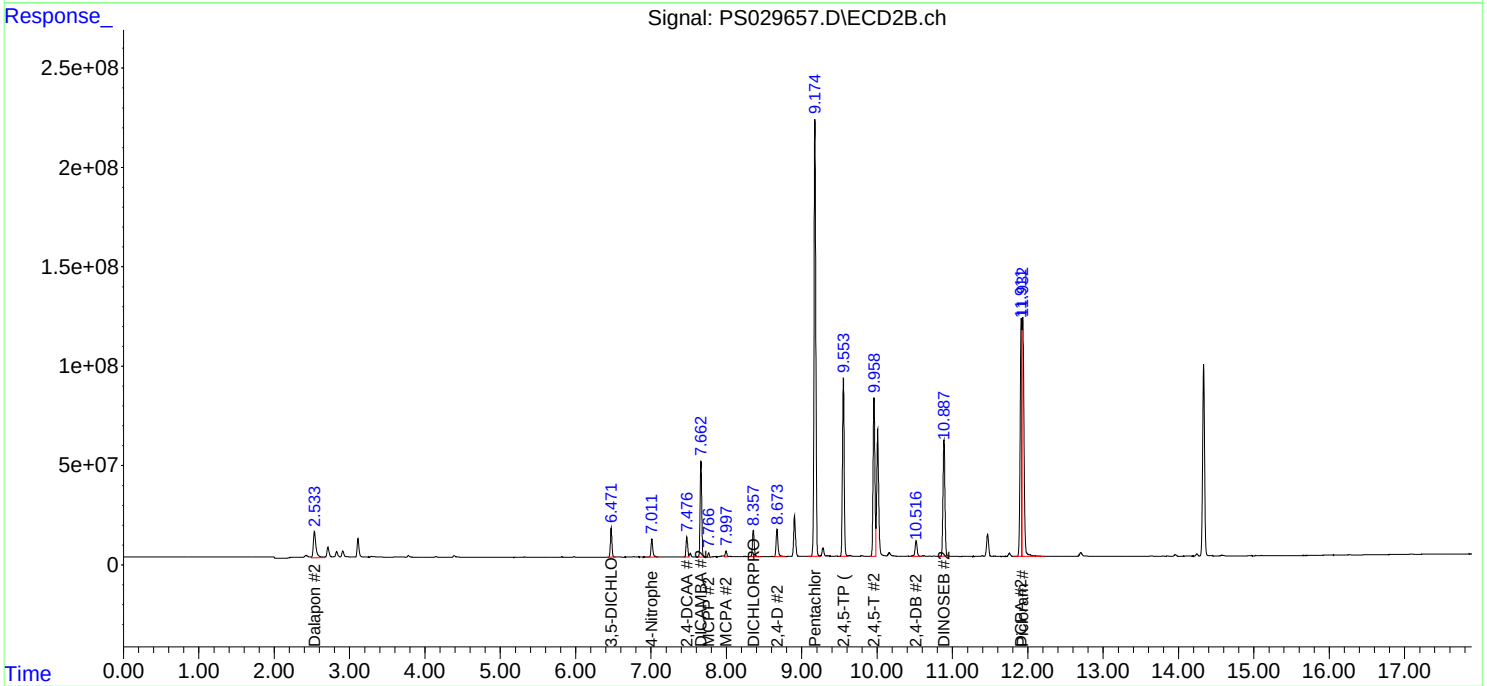
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029657.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 17:32
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 4 Sample Multiplier: 1

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





Quantitation Report (QT Reviewed)

ICAL Form

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	MCPP	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.

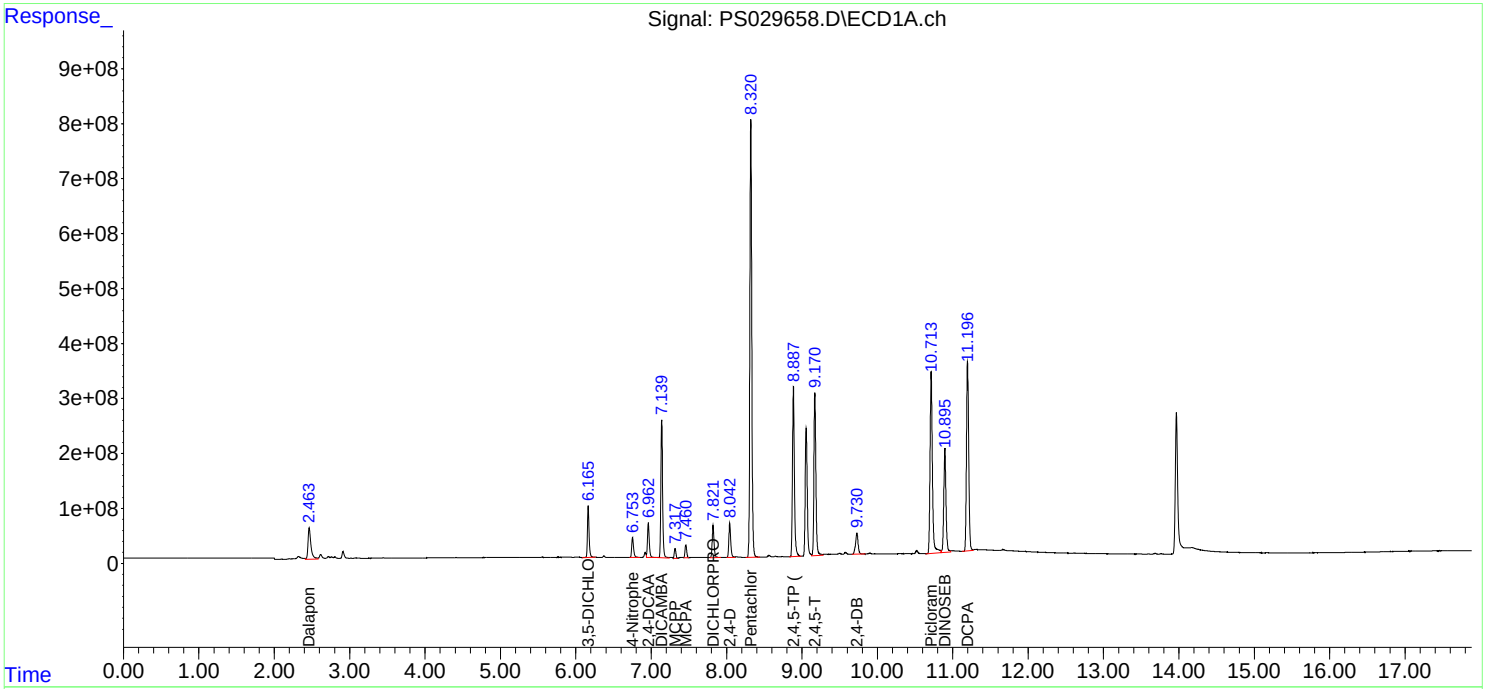
ICAL Form

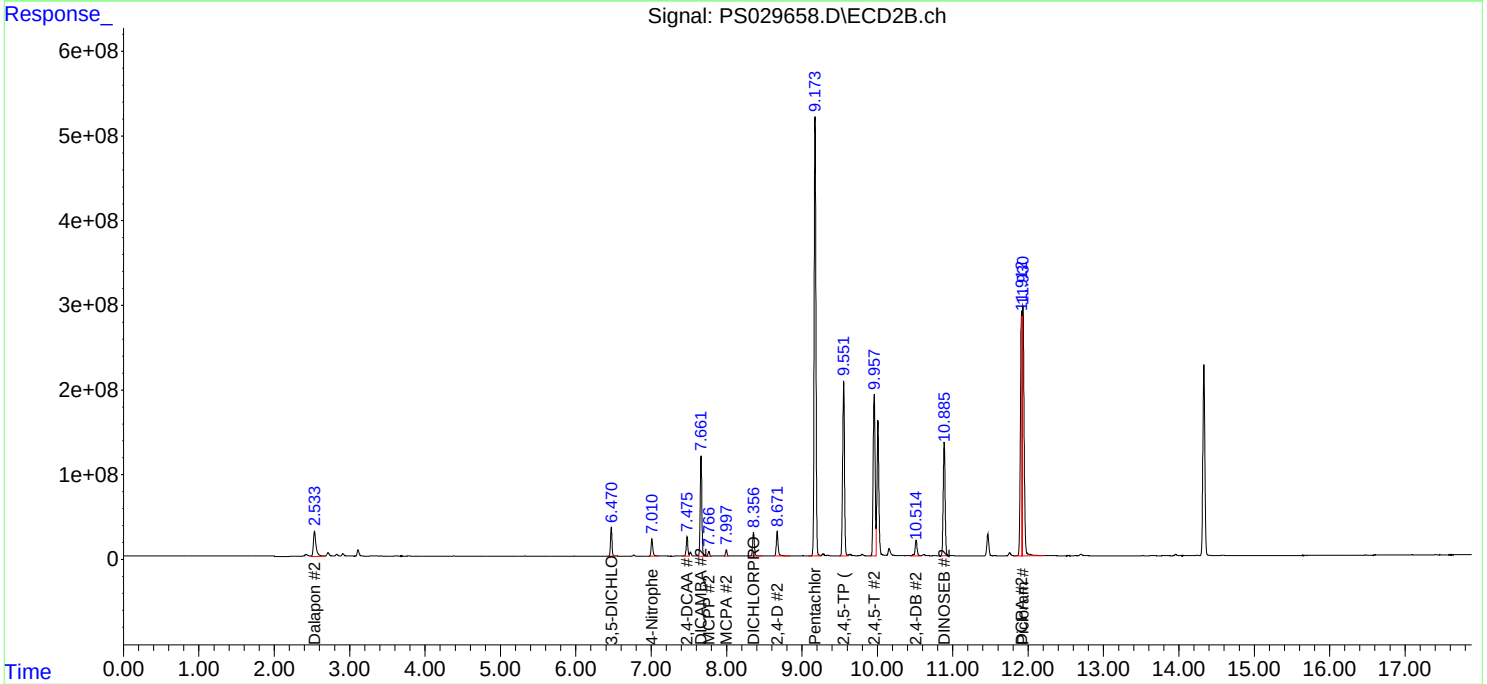
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029658.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 17:56
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

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





Quantitation Report (QT Reviewed)

ICAL Form

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 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	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	MCPP	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.

ICAL Form

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

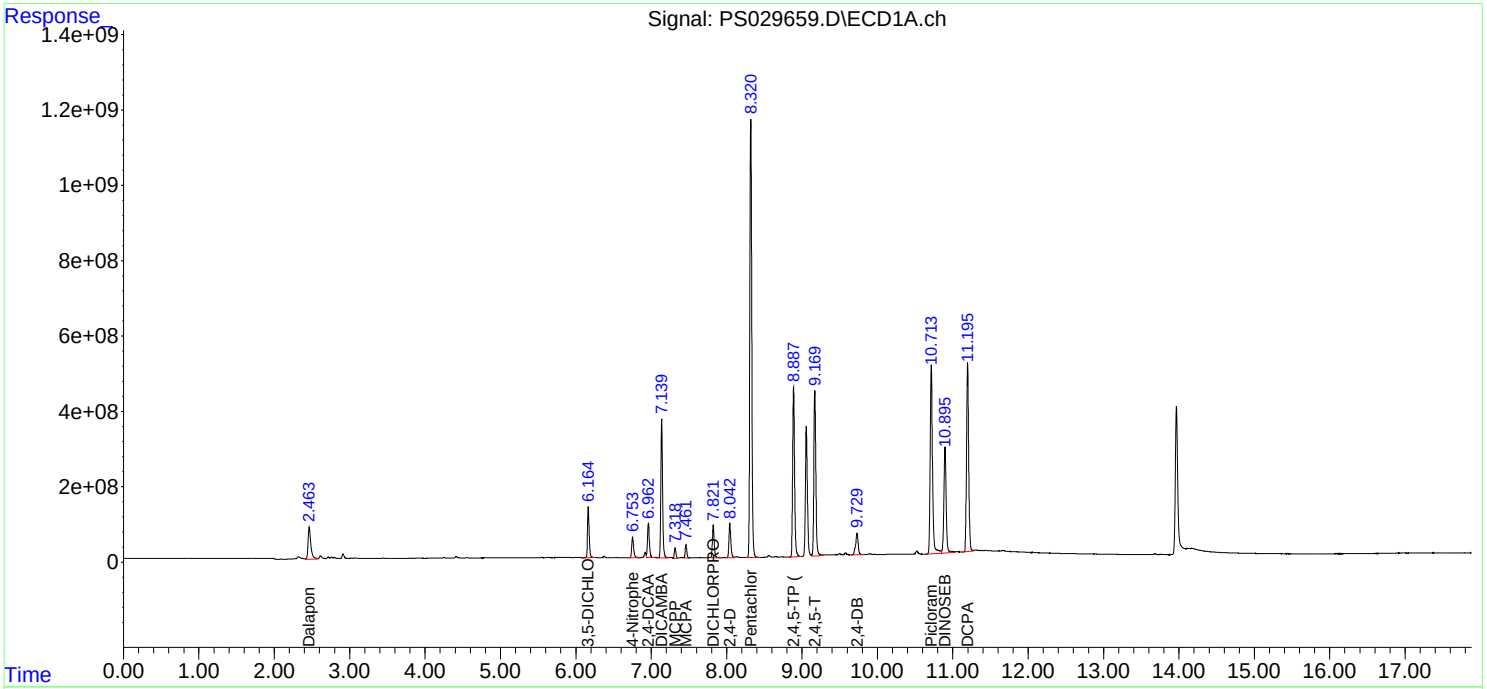
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

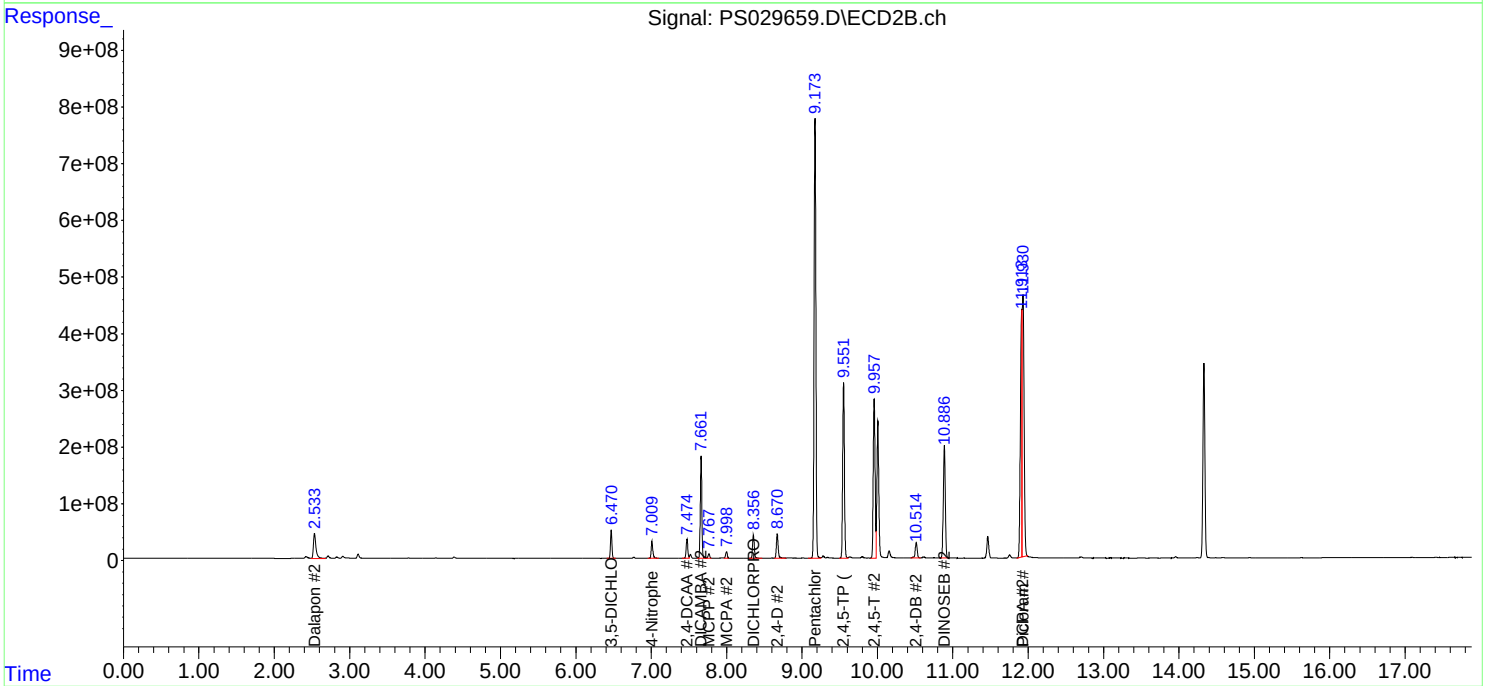
Manual Integrations APPROVED

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

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	MCPP	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.

ICAL Form

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

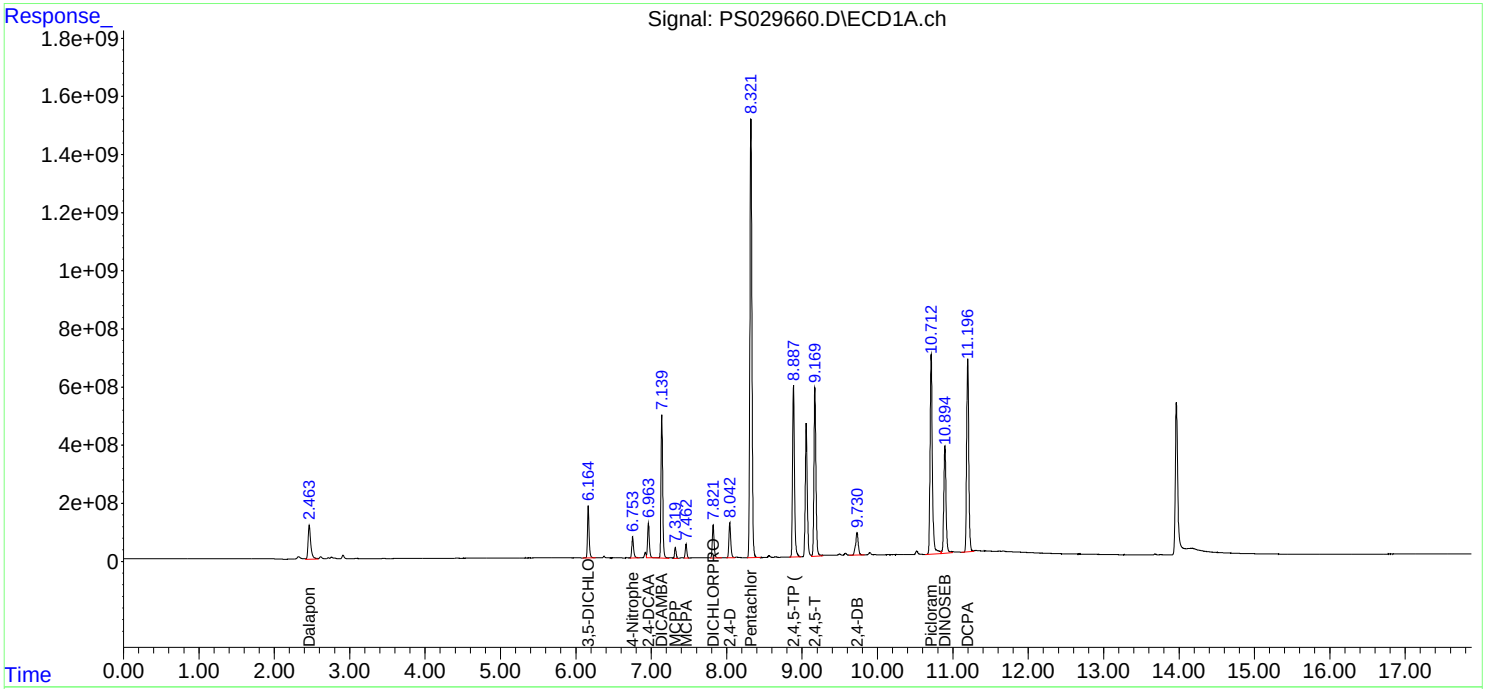
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

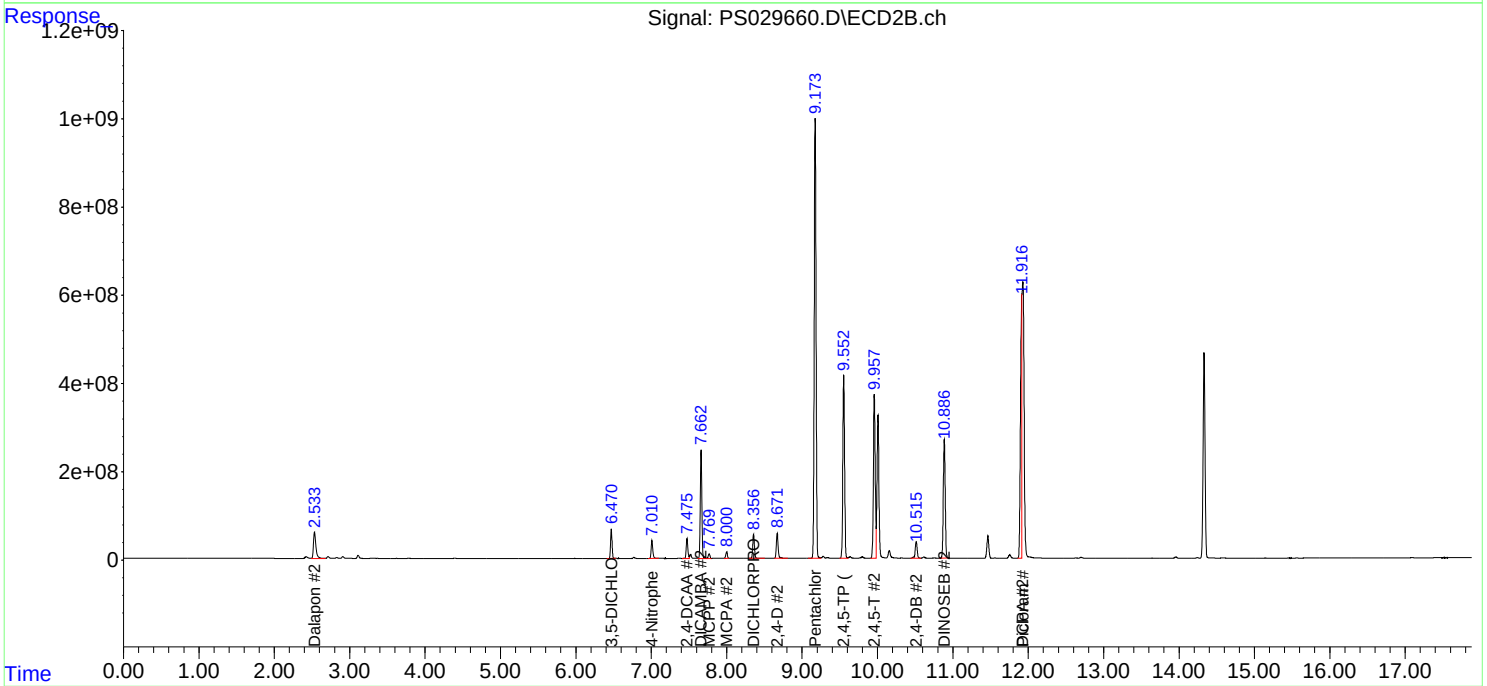
Manual Integrations APPROVED

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





Quantitation Report (QT Reviewed)

ICAL Form

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

		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	MCPP	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.

ICAL Form

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

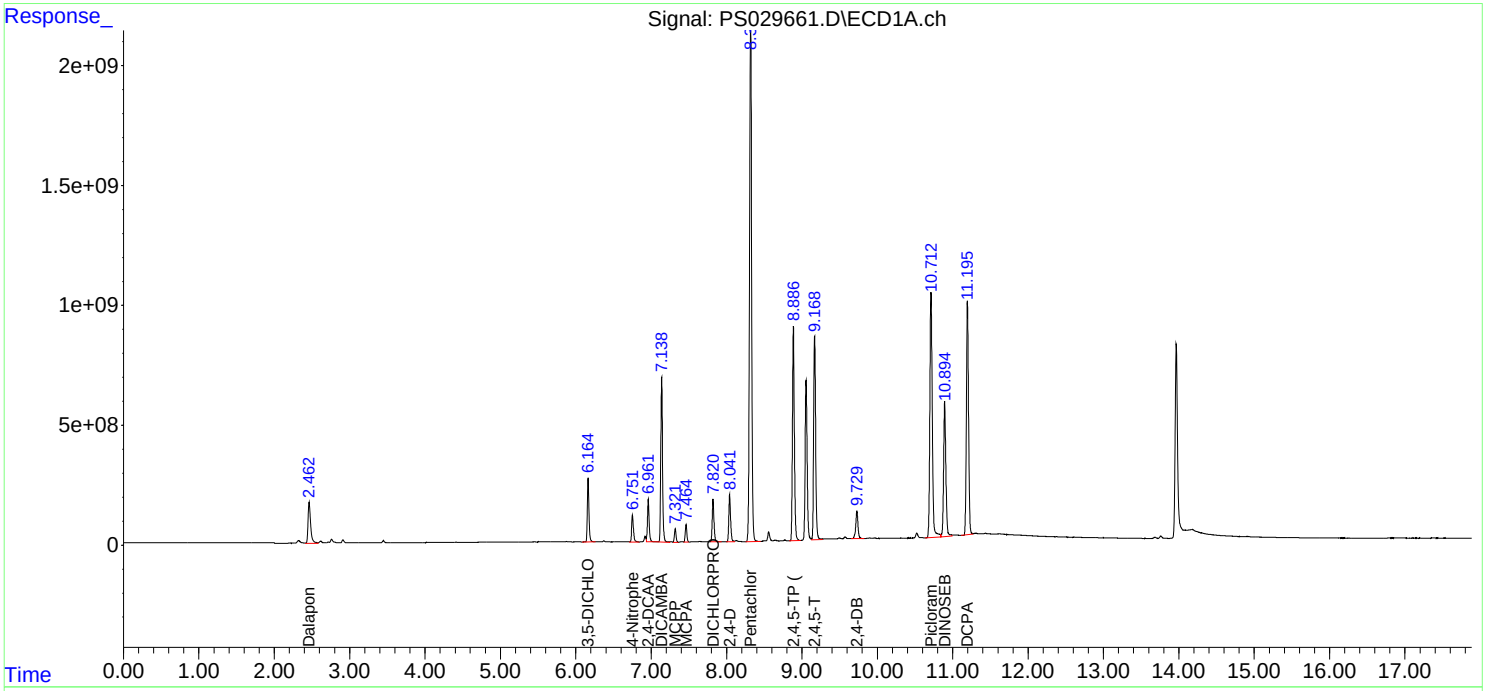
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

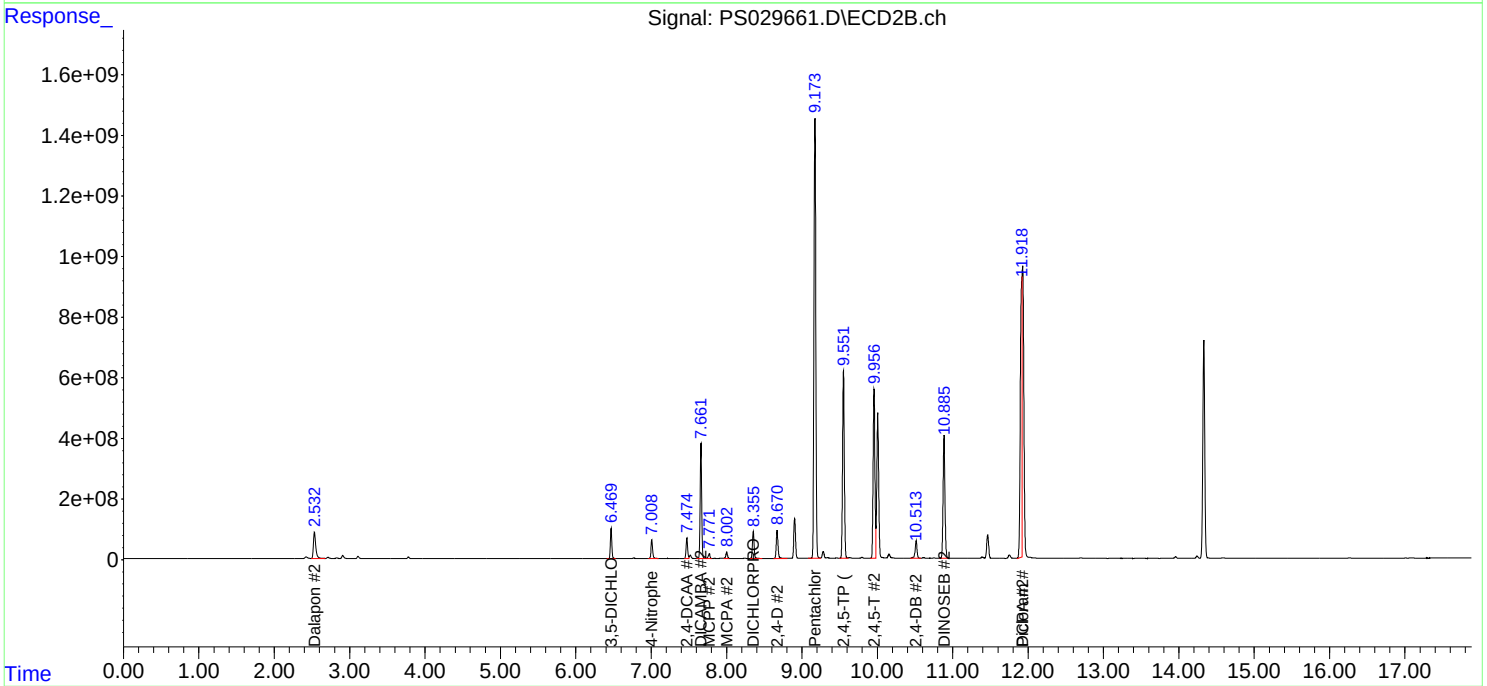
Manual Integrations APPROVED

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





Quantitation Report (QT Reviewed)

ICAL Form

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 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	6.962	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	MCPP	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.

ICAL Form

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

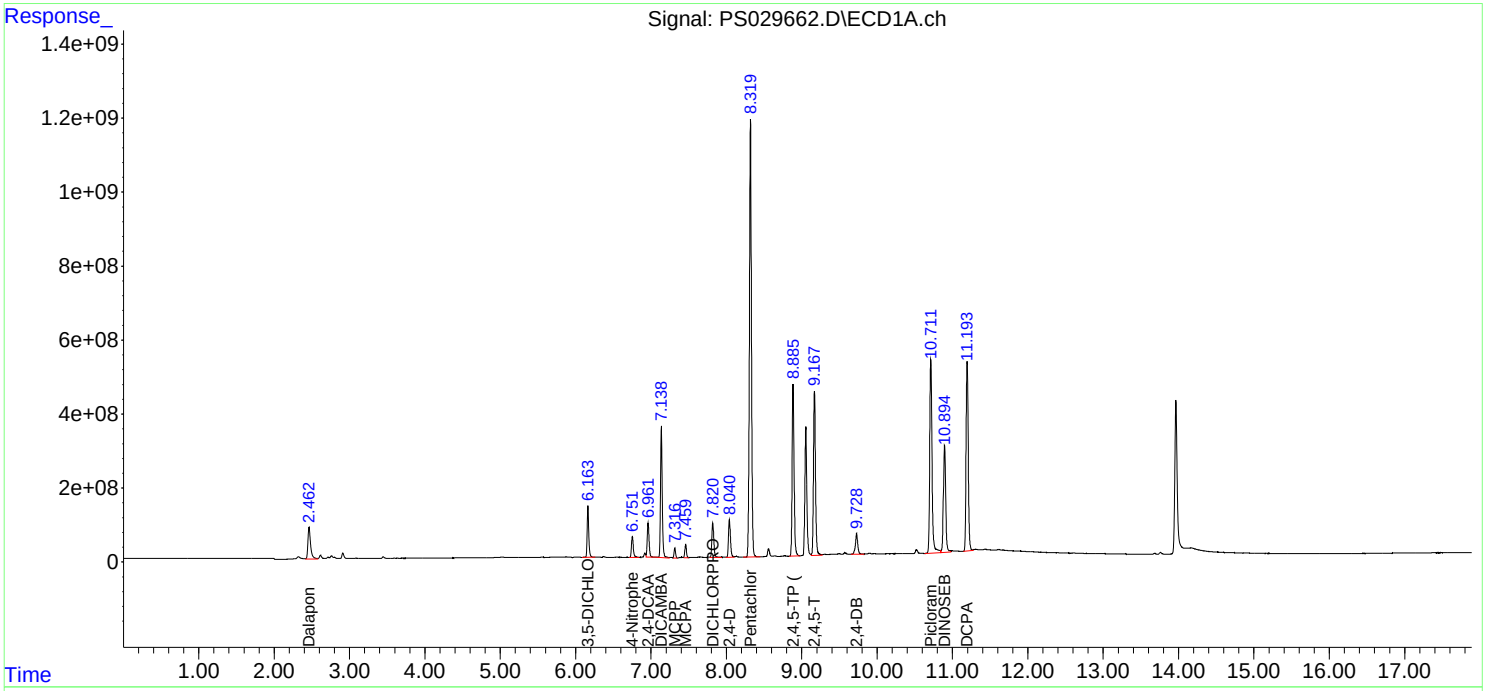
Instrument :
ECD_S
ClientSampleId :
ICVPS040225

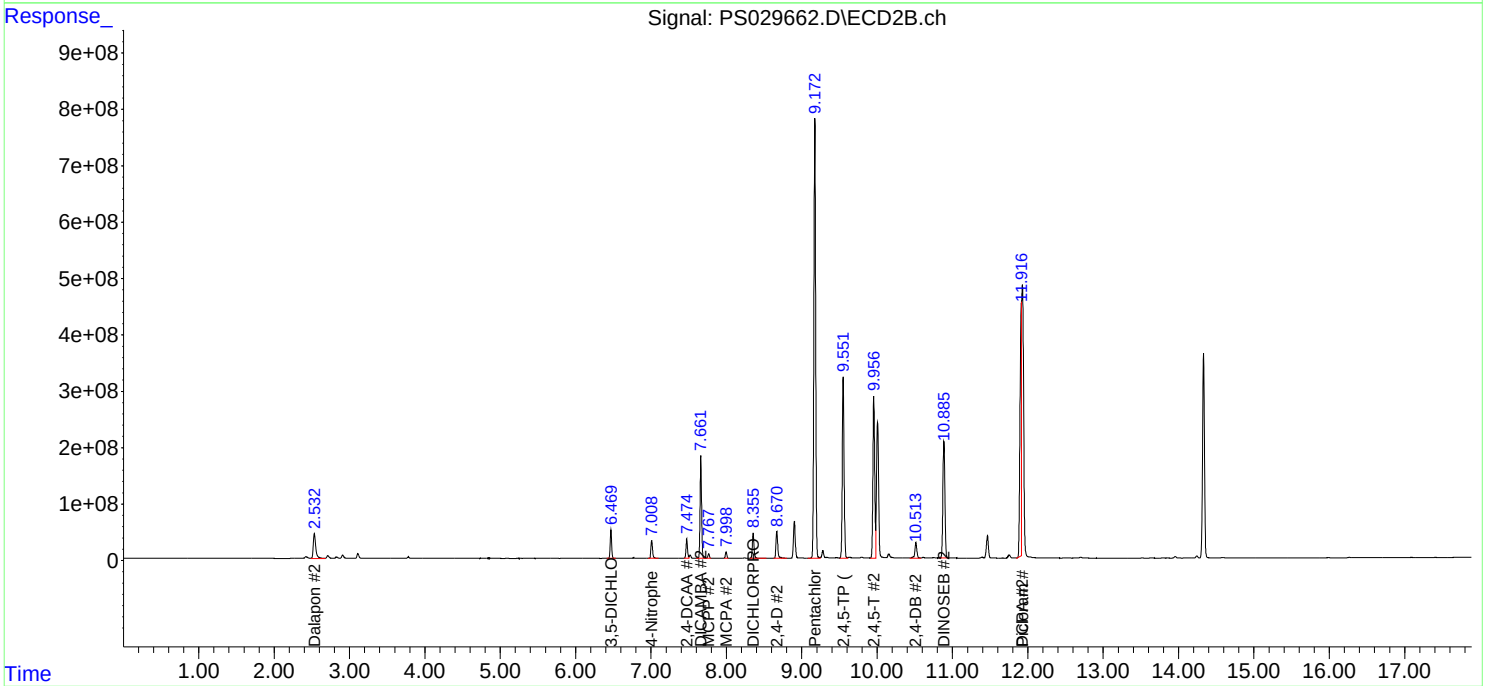
Manual Integrations APPROVED

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS029823.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PS029823.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PS029823.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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	RT WINDOW 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

Raw Data: **PS029823.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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	RT WINDOW 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

Quantitation Report (QT Reviewed)

Sample Results: **PS029823.D**

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

	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	MCPP	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.

Sample Results: **PS029823.D**

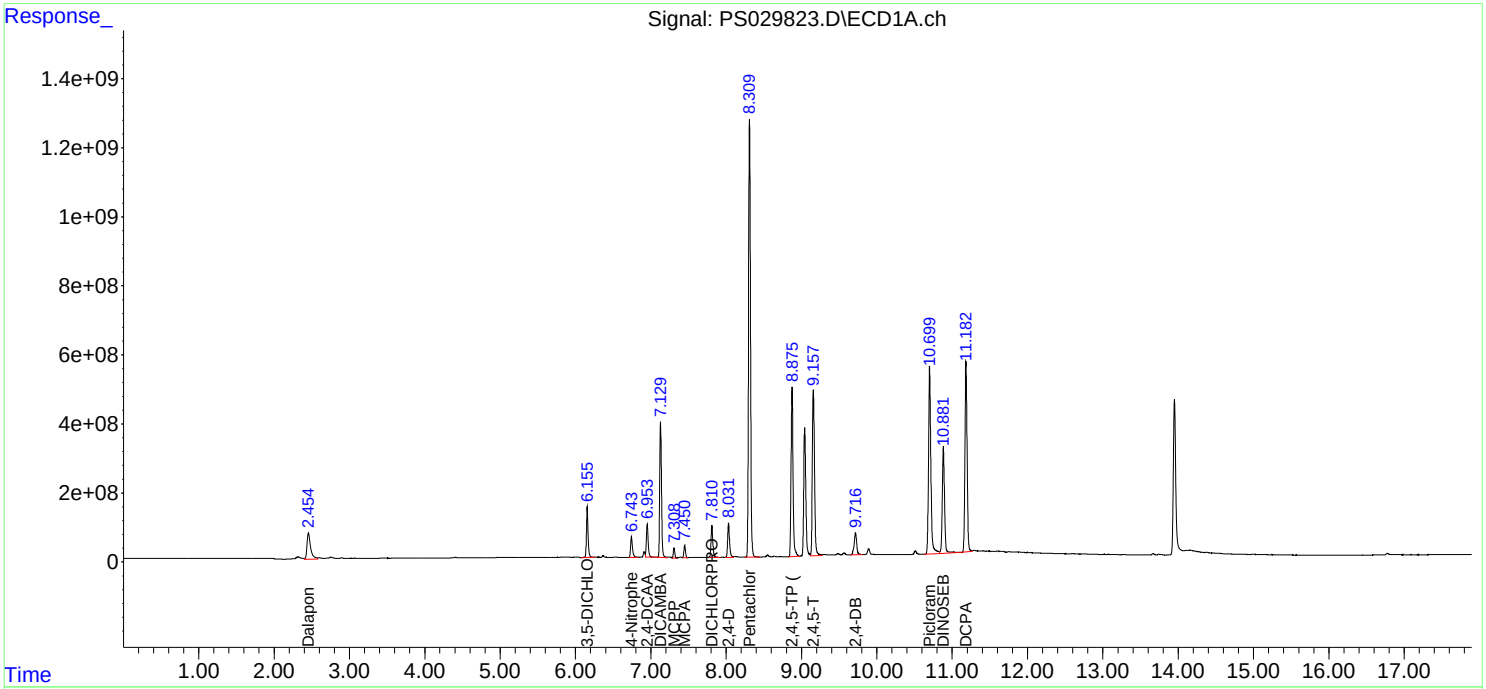
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029823.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 16:48
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

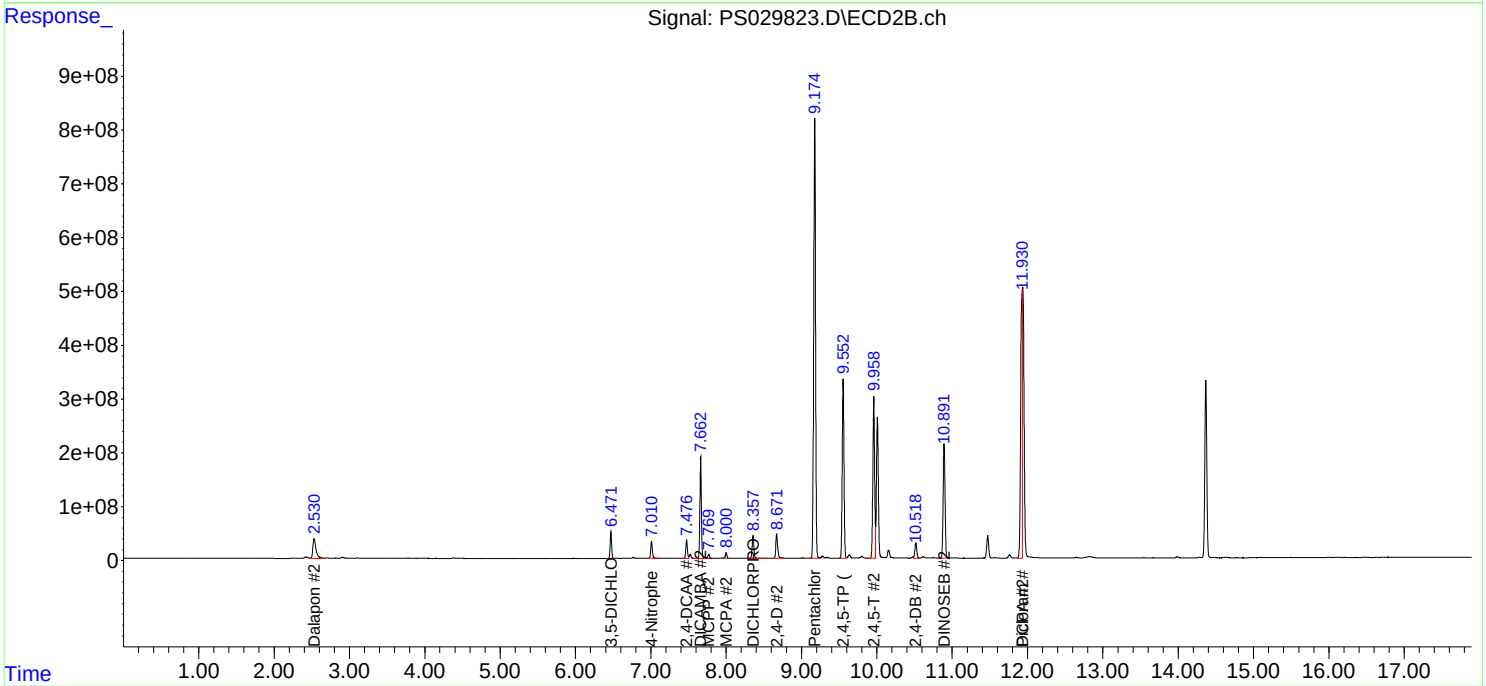
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

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





Raw Data: **PS029833.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PS029833.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PS029833.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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	RT WINDOW 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

Raw Data: **PS029833.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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	RT WINDOW 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 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	6.952	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	MCPP	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.

Sample Results: **PS029833.D**

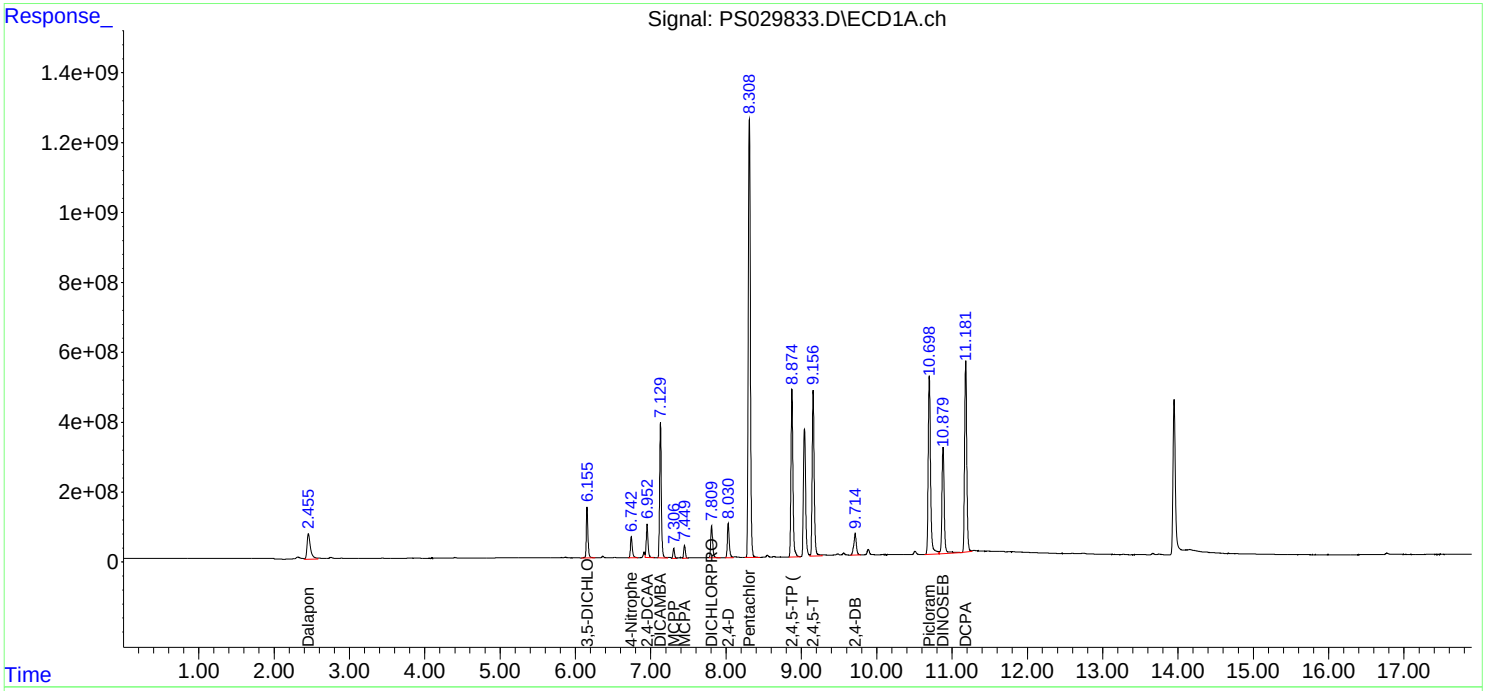
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 20:49
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

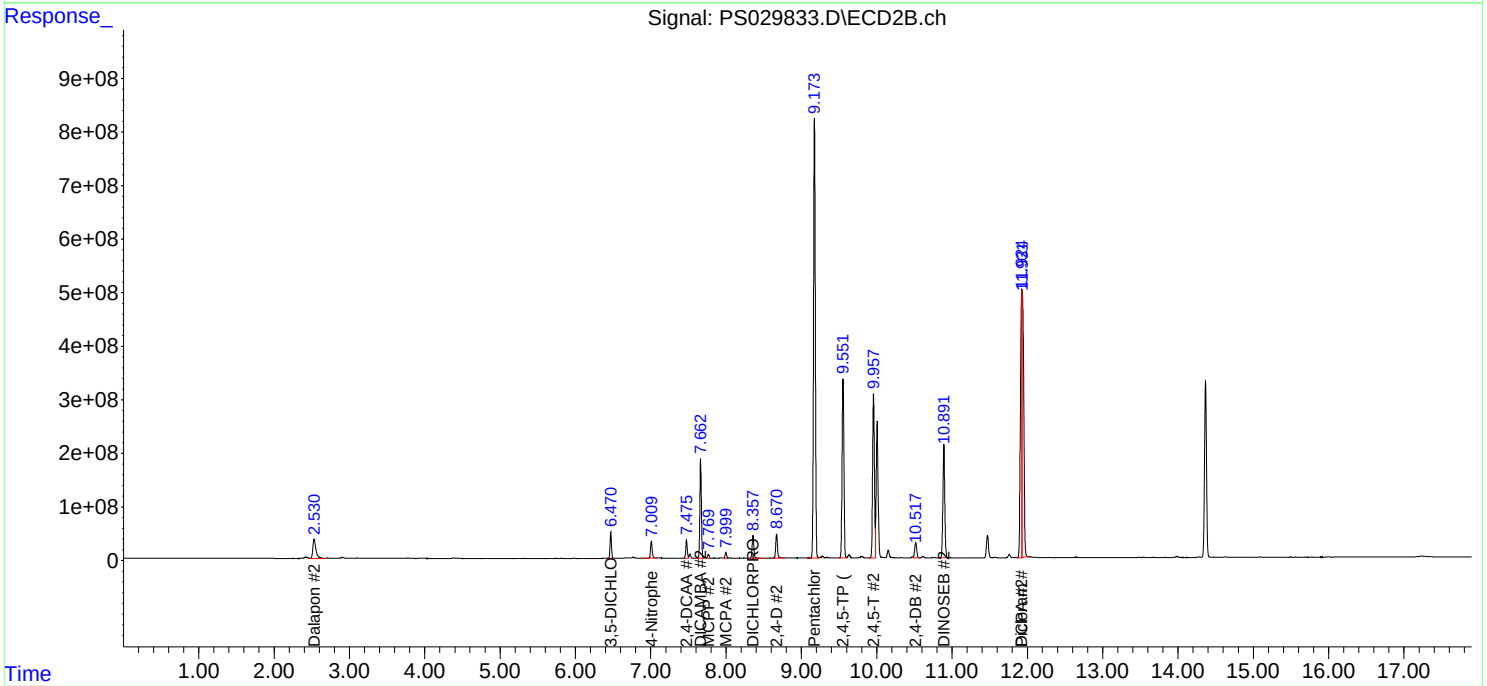
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS029836.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PS029836.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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	RT WINDOW 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

Raw Data: **PS029836.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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	RT WINDOW 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

Quantitation Report (QT Reviewed)

Sample Results: **PS029836.D**

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

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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	MCPP	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

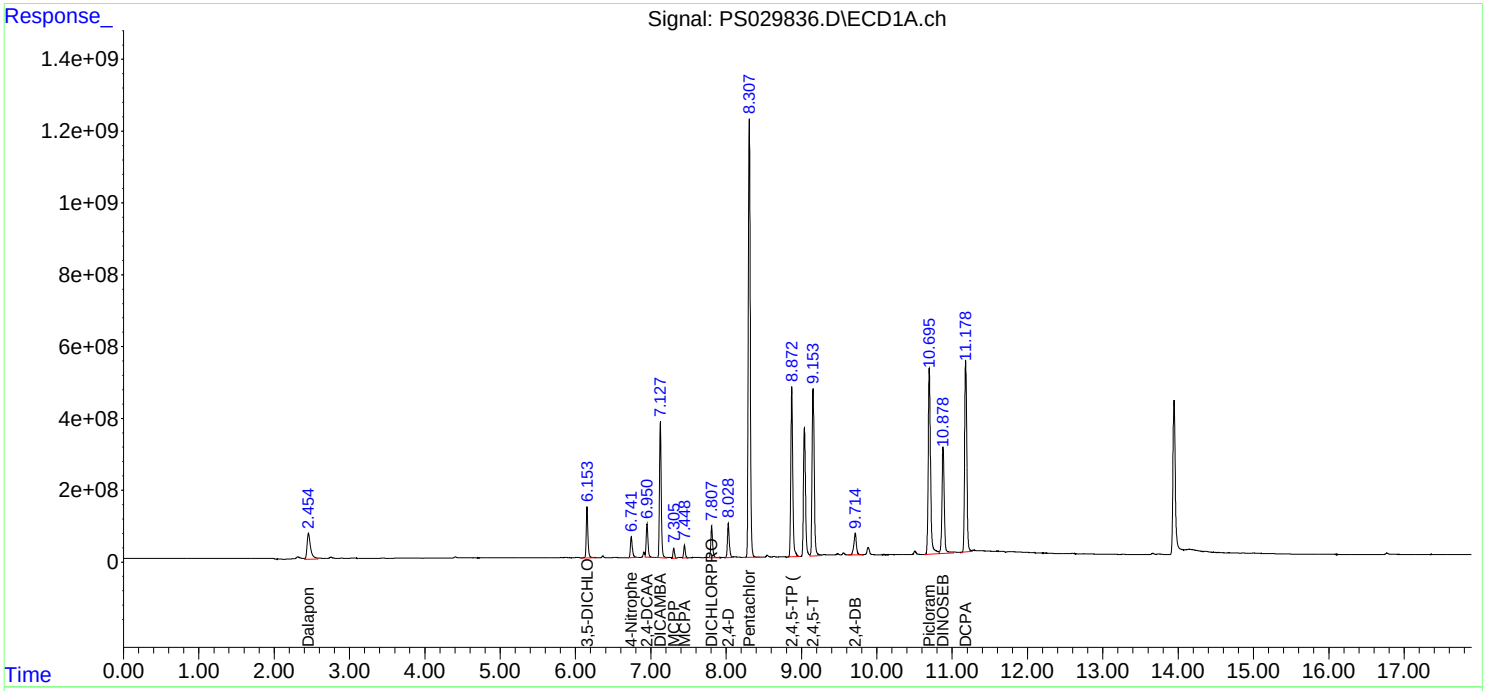
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

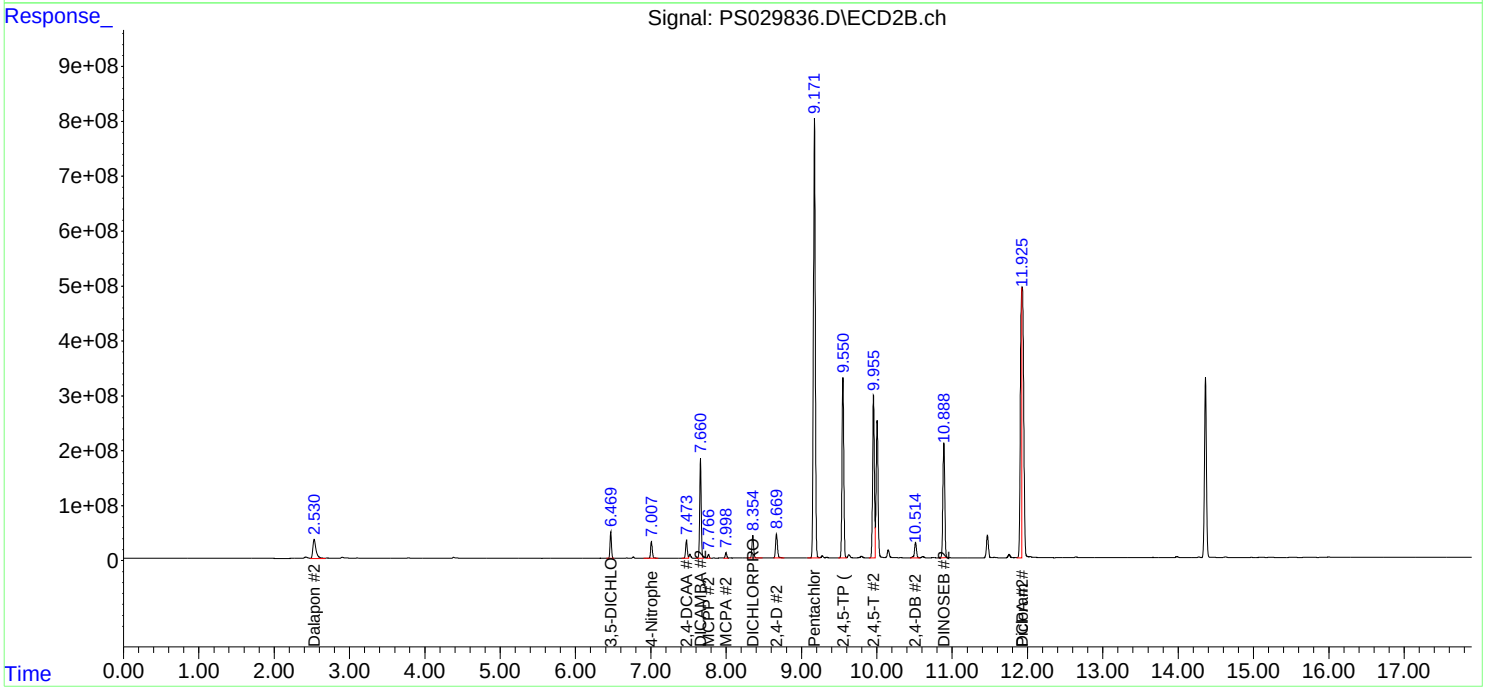
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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





Raw Data: **PS029839.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PS029839.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PS029839.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
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

Raw Data: **PS029839.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
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

Sample Results: **PS029839.D**

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

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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	MCPP	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

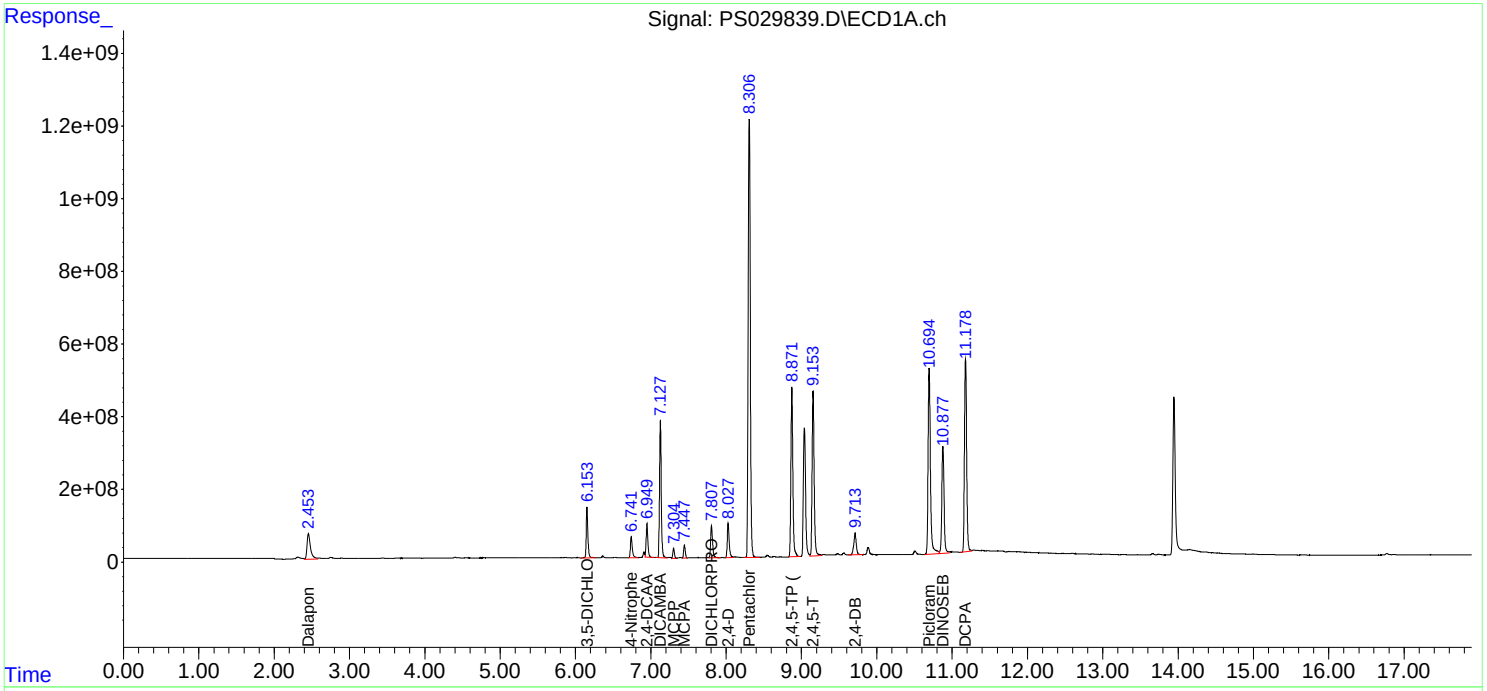
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

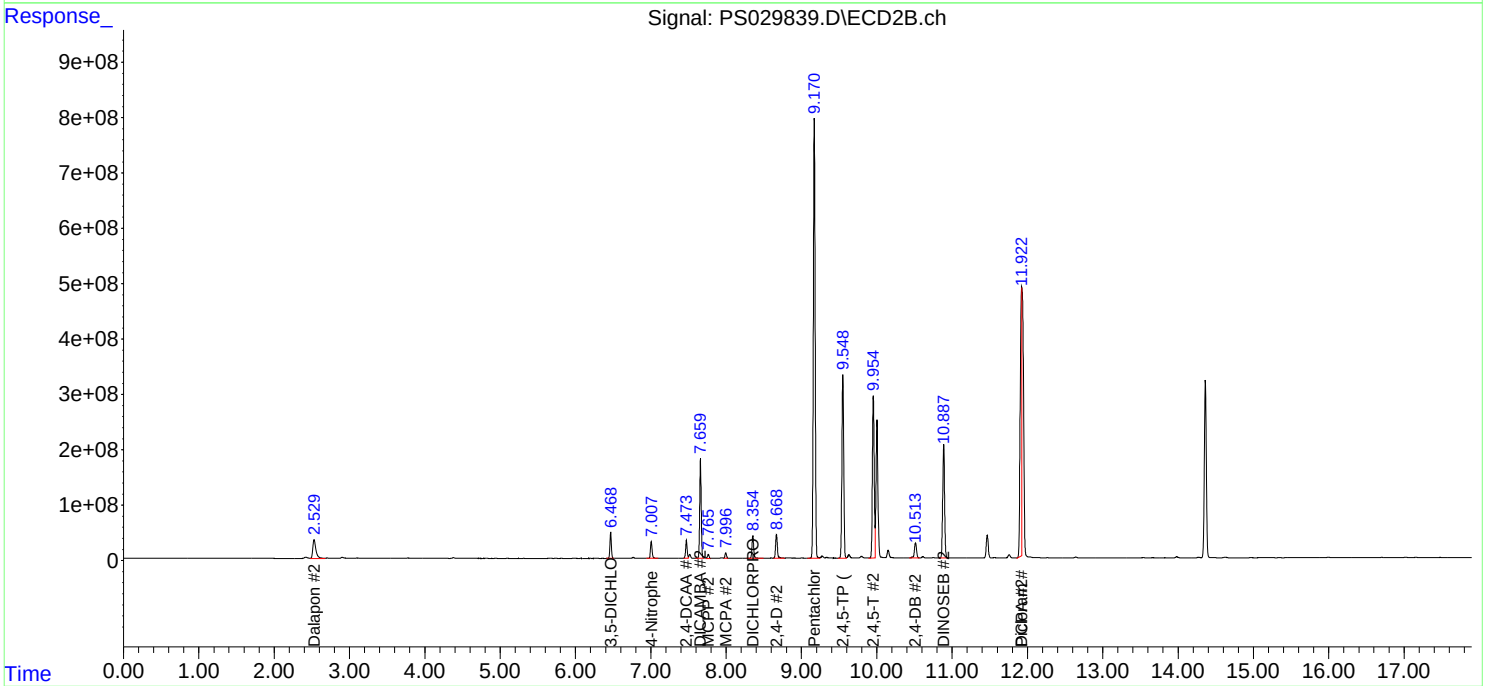
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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





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

Analytical Sequence

Client: ENTACT **SDG No.:** Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309 **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 #
I.BLK	I.BLK	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
I.BLK	I.BLK	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
WC-A4-01-C	Q1800-03	04/16/2025	19:13	PS029829.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
I.BLK	I.BLK	04/16/2025	20:25	PS029832.D	6.95	0.00
HSTDCCC750	HSTDCCC750	04/16/2025	20:49	PS029833.D	6.95	0.00
I.BLK	I.BLK	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
I.BLK	I.BLK	04/17/2025	15:37	PS029838.D	6.95	0.00
HSTDCCC750	HSTDCCC750	04/17/2025	16:01	PS029839.D	6.95	0.00

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Fax : 908 789 8922

Analytical Sequence

Client: ENTACT **SDG No.:** Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309 **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 #
I.BLK	I.BLK	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
I.BLK	I.BLK	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
WC-A4-01-C	Q1800-03	04/16/2025	19:13	PS029829.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
I.BLK	I.BLK	04/16/2025	20:25	PS029832.D	7.48	0.00
HSTDCCC750	HSTDCCC750	04/16/2025	20:49	PS029833.D	7.48	0.00
I.BLK	I.BLK	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
I.BLK	I.BLK	04/17/2025	15:37	PS029838.D	7.47	0.00
HSTDCCC750	HSTDCCC750	04/17/2025	16:01	PS029839.D	7.47	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167608BS

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
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	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-A4-01-CMS

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
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	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-A4-01-CMSD

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q1800 **SAS No.:** Q1800 **SDG NO.:** Q1800

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
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

Raw Data: **PS029824.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB167608BL	SDG No.:	Q1800
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	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	681	*	70 (39) - 130 (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

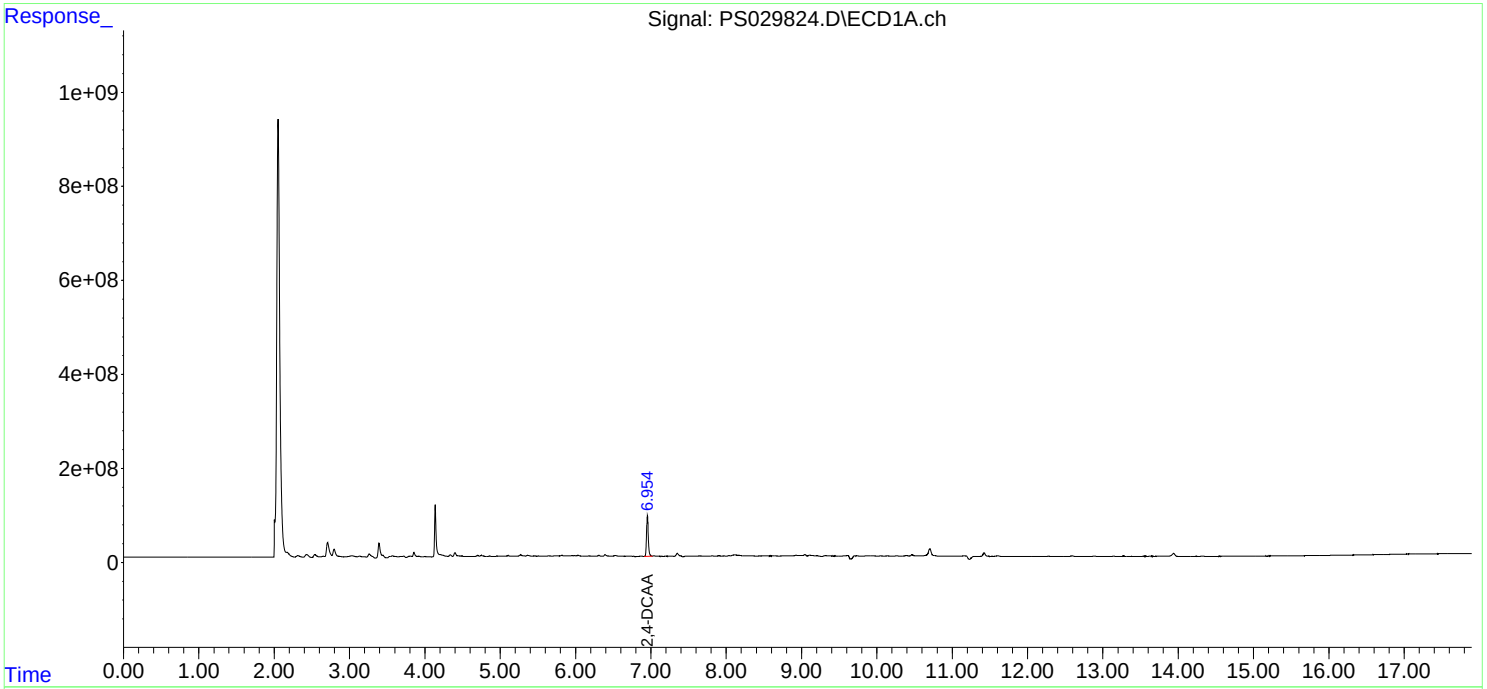
Instrument :
ECD_S
ClientSampleId :
PB167608BL

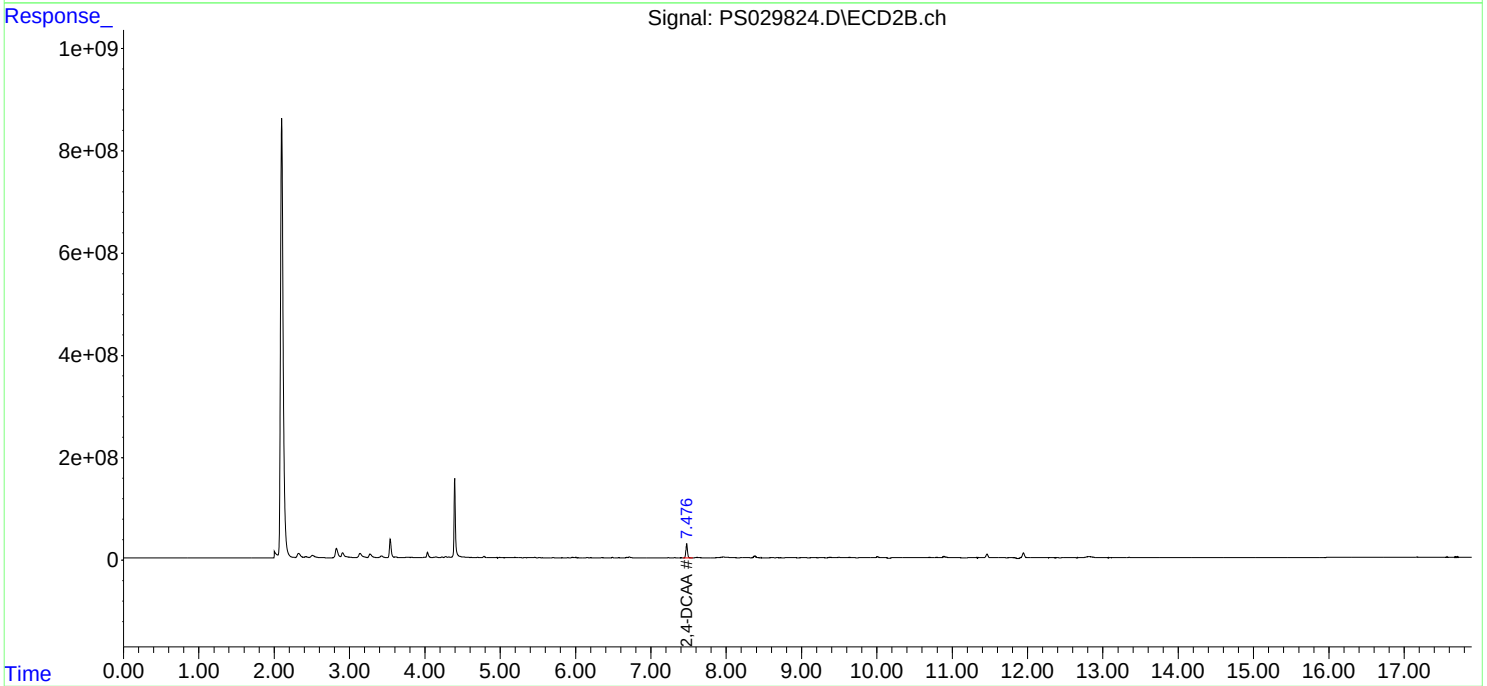
Manual Integrations APPROVED

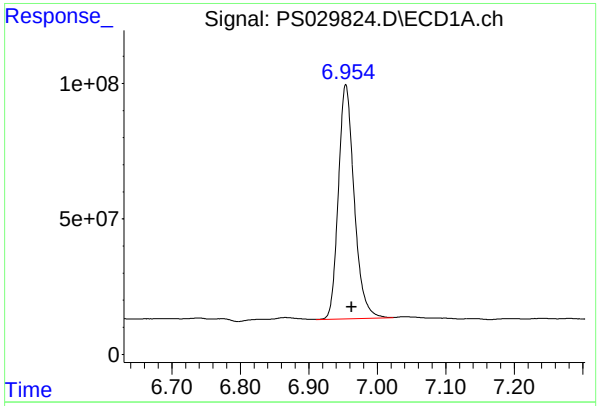
Reviewed By :Abdul Mirza 04/17/2025
Supervised By :mohammad ahmed 04/18/2025

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







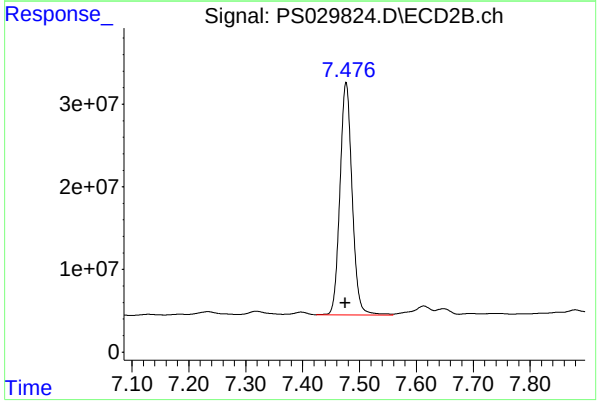
#4 2,4-DCAA

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

Raw Data: **PS029656.D**

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Fax : 908 789 8922

Report of Analysis

Client:	ENTACT	Date Collected:	04/02/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/02/25
Client Sample ID:	PIBLK-PS029656.D	SDG No.:	Q1800
Lab Sample ID:	I.BLK-PS029656.D	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
PS029656.D	1		04/02/25	PS040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	485		70 (39) - 130 (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.

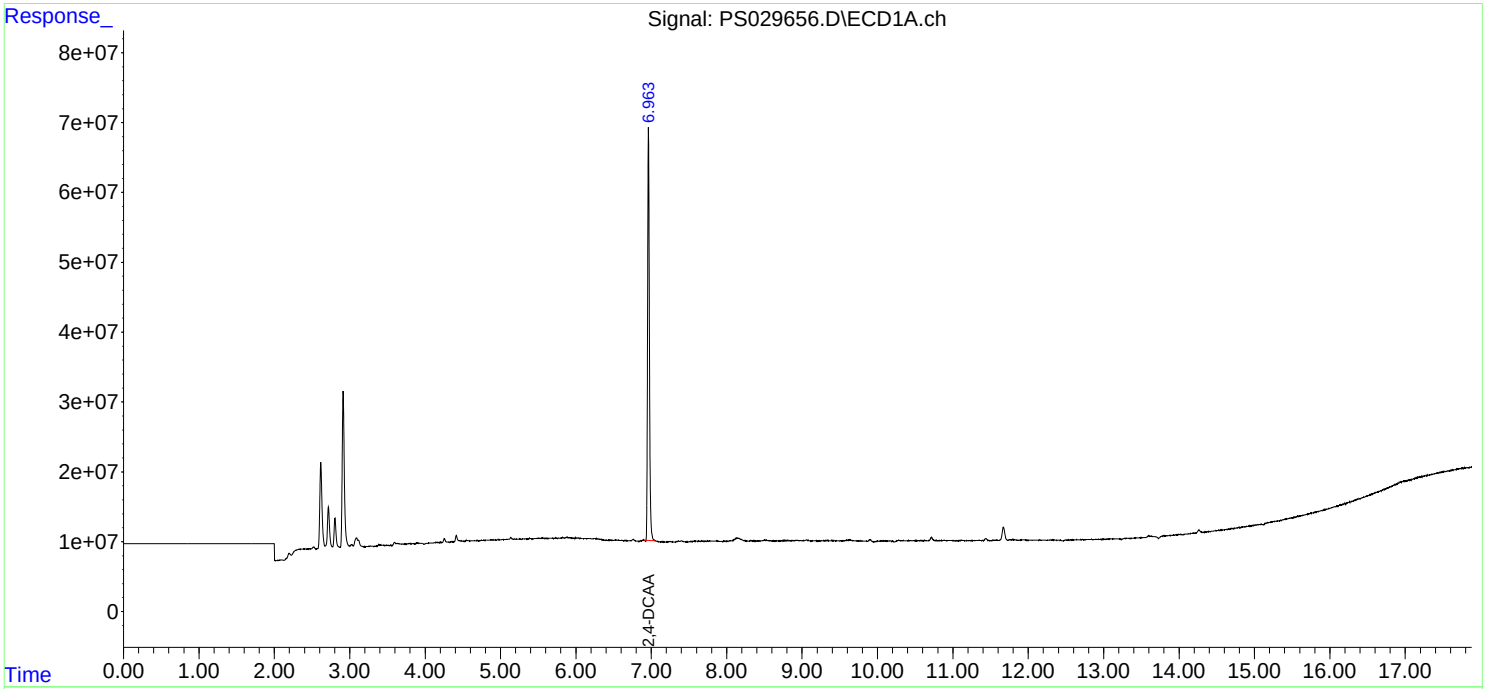
Sample Results: **PS029656.D**

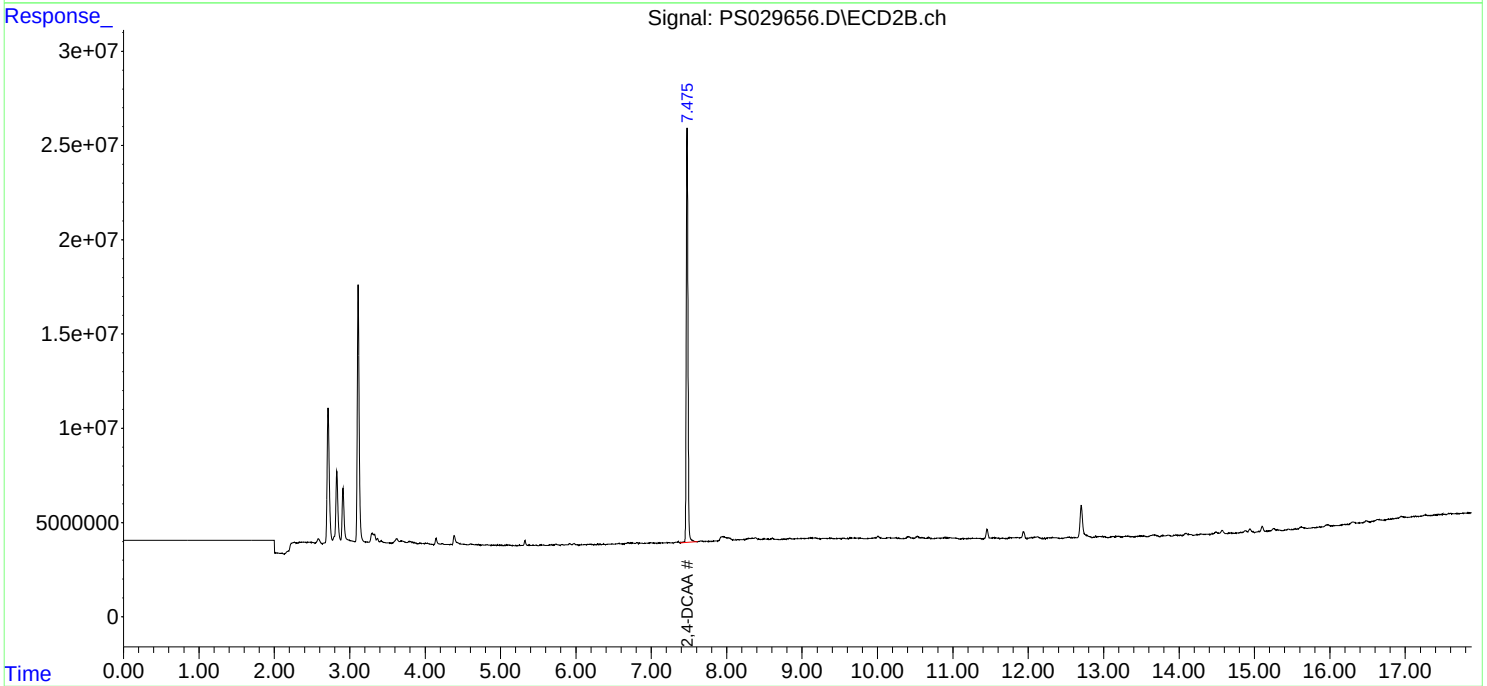
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040225\
Data File : PS029656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Apr 2025 16:44
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

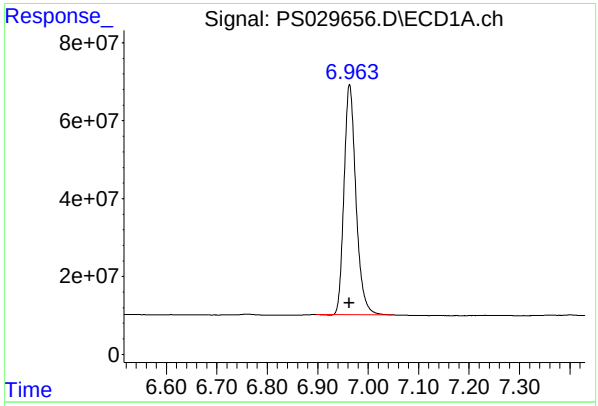
Instrument :
ECD_S
ClientSampleId :
I.BLK

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



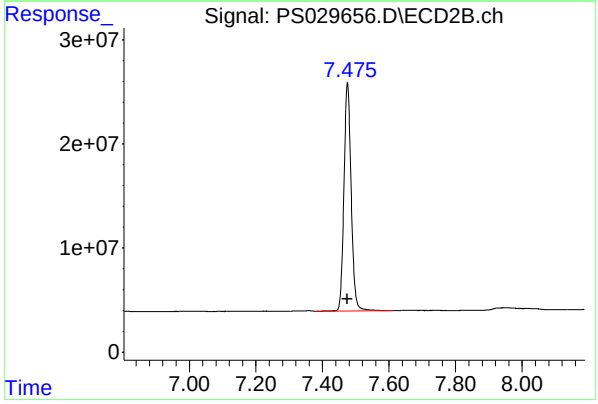




#4 2,4-DCAA

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

Raw Data: **PS029822.D**

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Fax : 908 789 8922

Report of Analysis

Client:	ENTACT	Date Collected:	04/16/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/16/25
Client Sample ID:	PIBLK-PS029822.D	SDG No.:	Q1800
Lab Sample ID:	I.BLK-PS029822.D	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
PS029822.D	1		04/16/25	ps041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	581		70 (39) - 130 (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

Quantitation Report (QT Reviewed)

Sample Results: **PS029822.D**

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 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	1184.6E6	373.0E6	581.019	547.364
	Target Compounds						

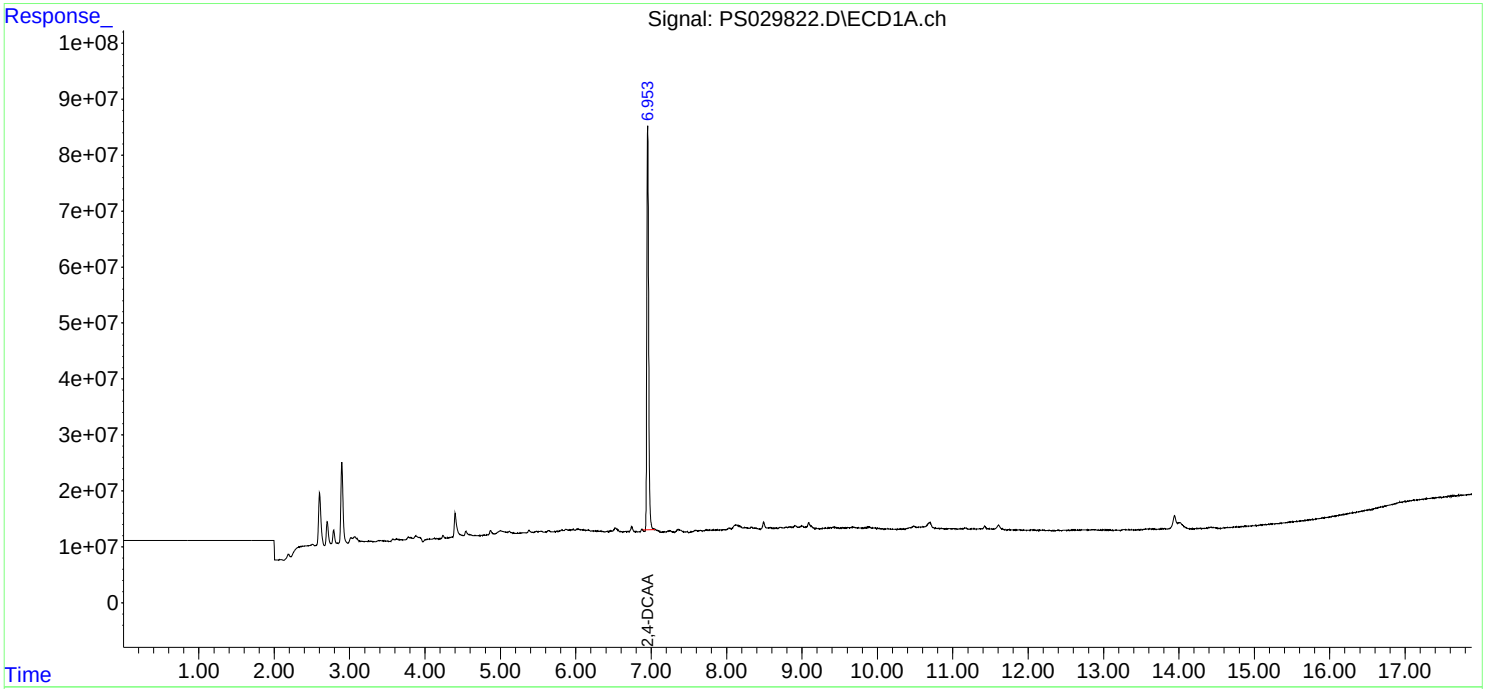
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

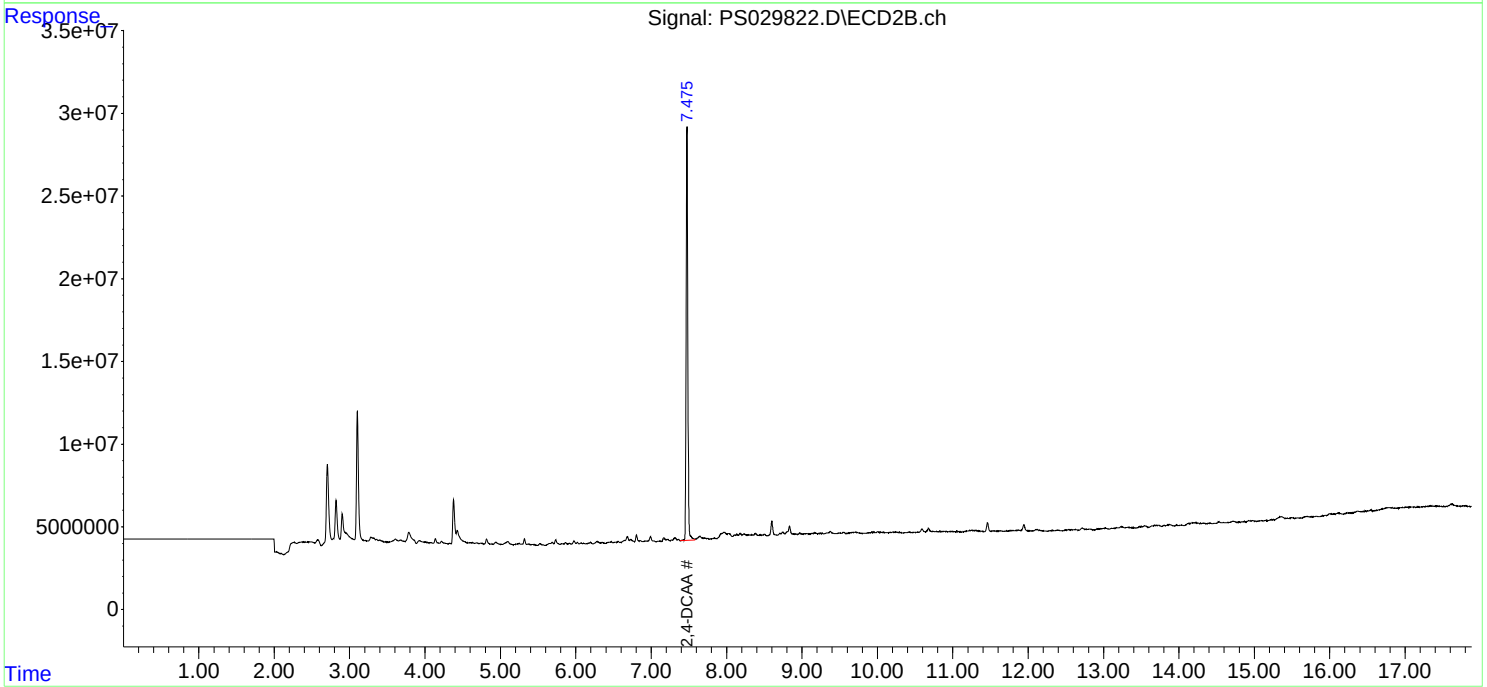
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029822.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 15:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

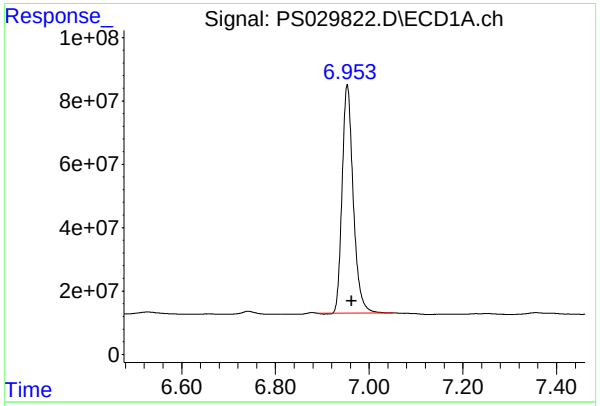
Instrument :
ECD_S
ClientSampleId :
I.BLK

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



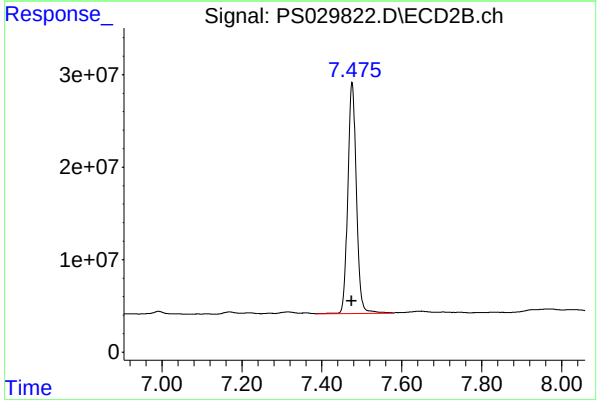




#4 2,4-DCAA

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

Raw Data: **PS029832.D**

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

Report of Analysis

Client:	ENTACT	Date Collected:	04/16/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/16/25
Client Sample ID:	PIBLK-PS029832.D	SDG No.:	Q1800
Lab Sample ID:	I.BLK-PS029832.D	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
PS029832.D	1		04/16/25	ps041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	567		70 (39) - 130 (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 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	6.952	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.

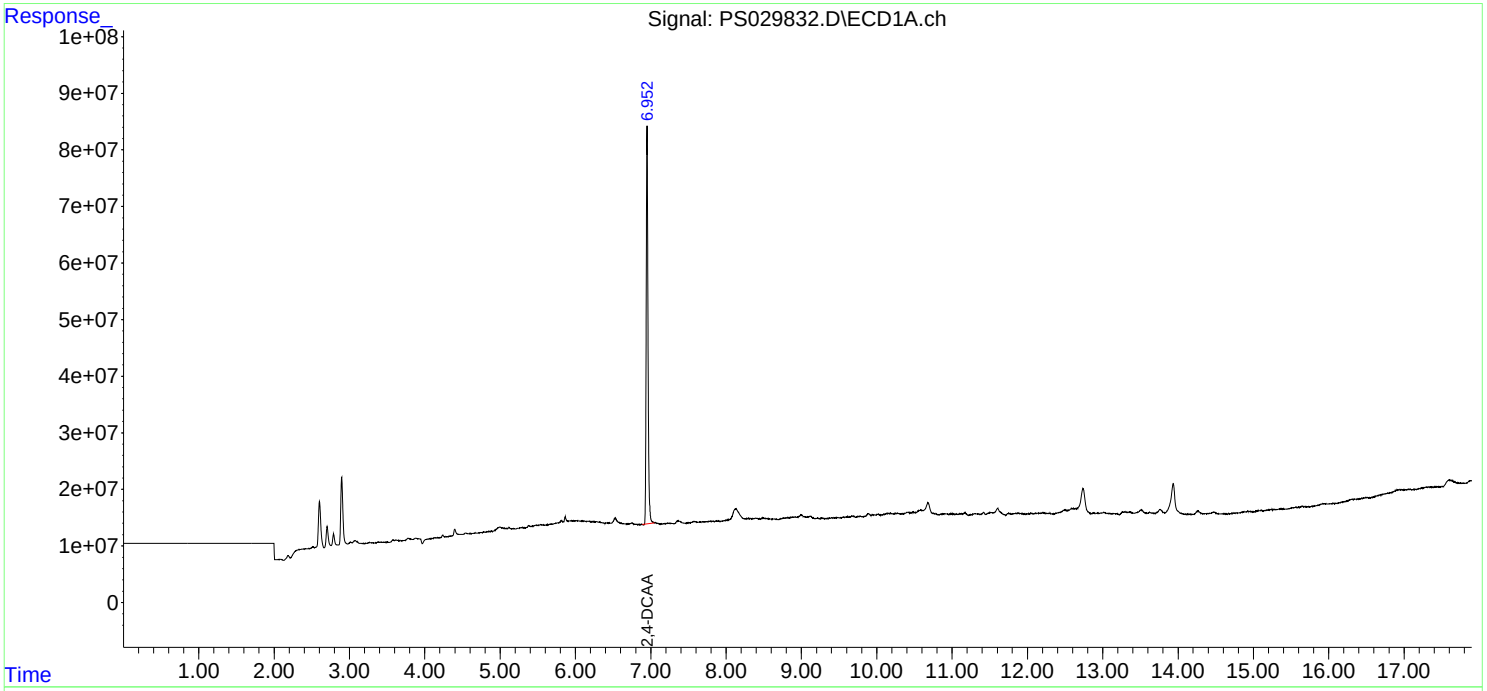
Sample Results: **PS029832.D**

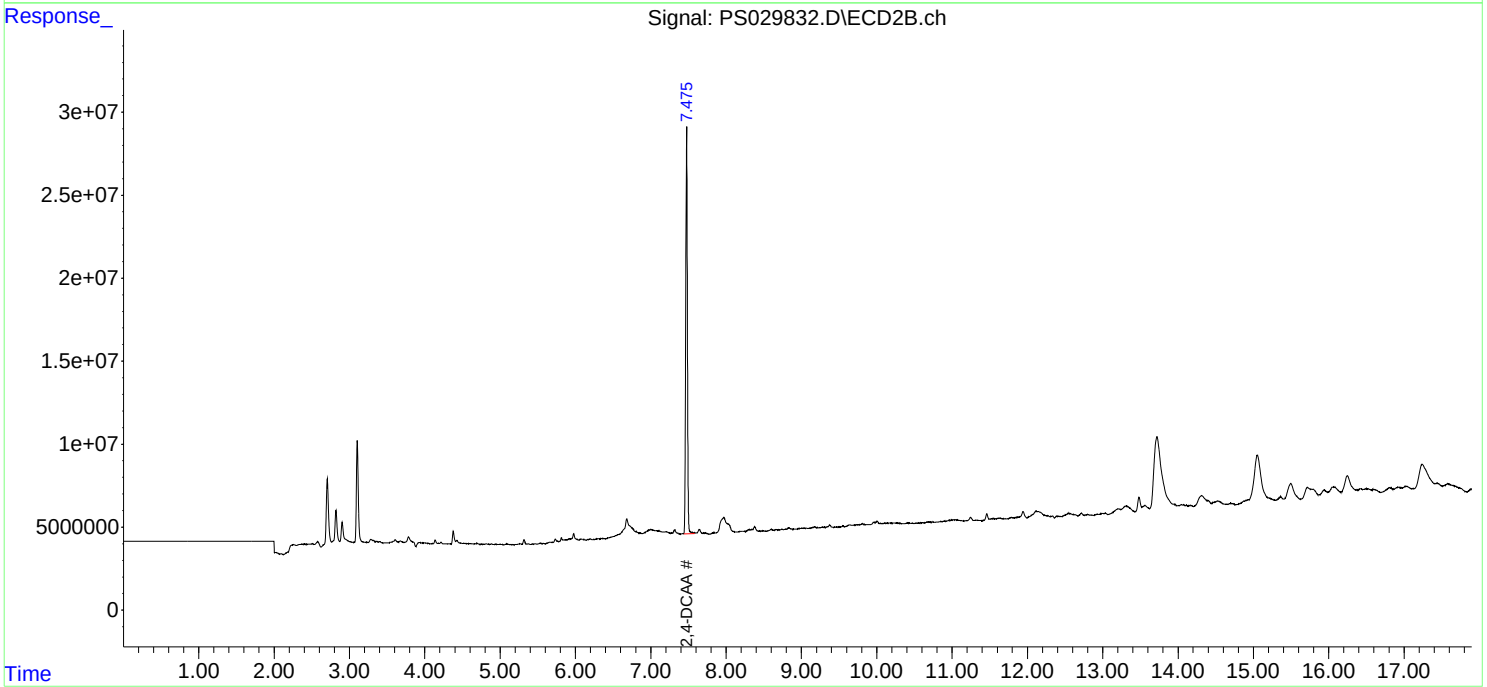
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 20:25
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

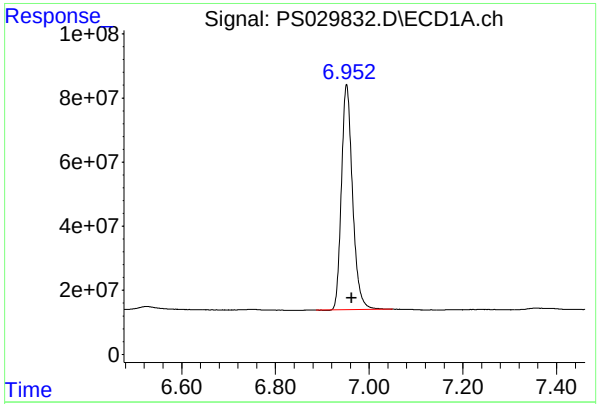
Instrument :
ECD_S
ClientSampleId :
I.BLK

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



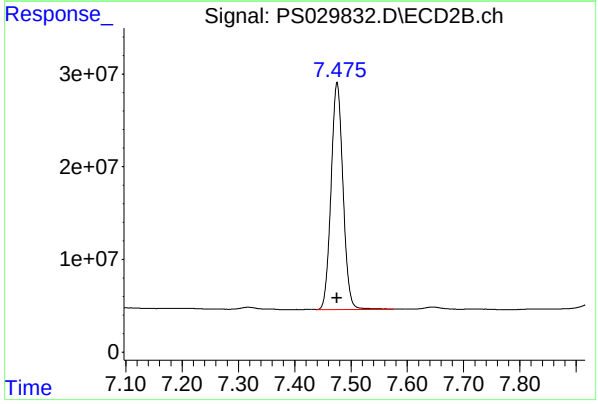




#4 2,4-DCAA

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

Raw Data: **PS029835.D**

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

Report of Analysis

Client:	ENTACT	Date Collected:	04/17/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/17/25
Client Sample ID:	PIBLK-PS029835.D	SDG No.:	Q1800
Lab Sample ID:	I.BLK-PS029835.D	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
PS029835.D	1		04/17/25	ps041725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	558		70 (39) - 130 (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

Sample Results: **PS029835.D**

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

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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

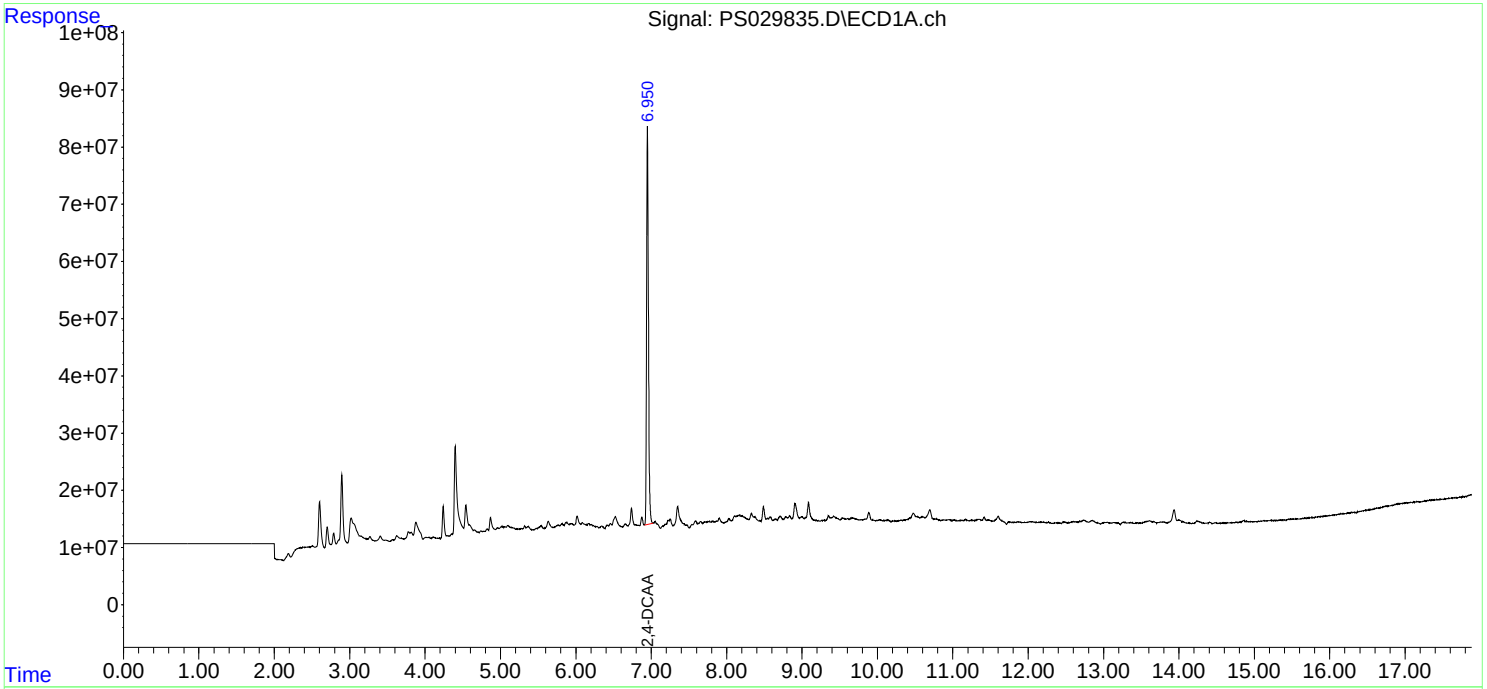
Instrument :
ECD_S
ClientSampleId :
I.BLK

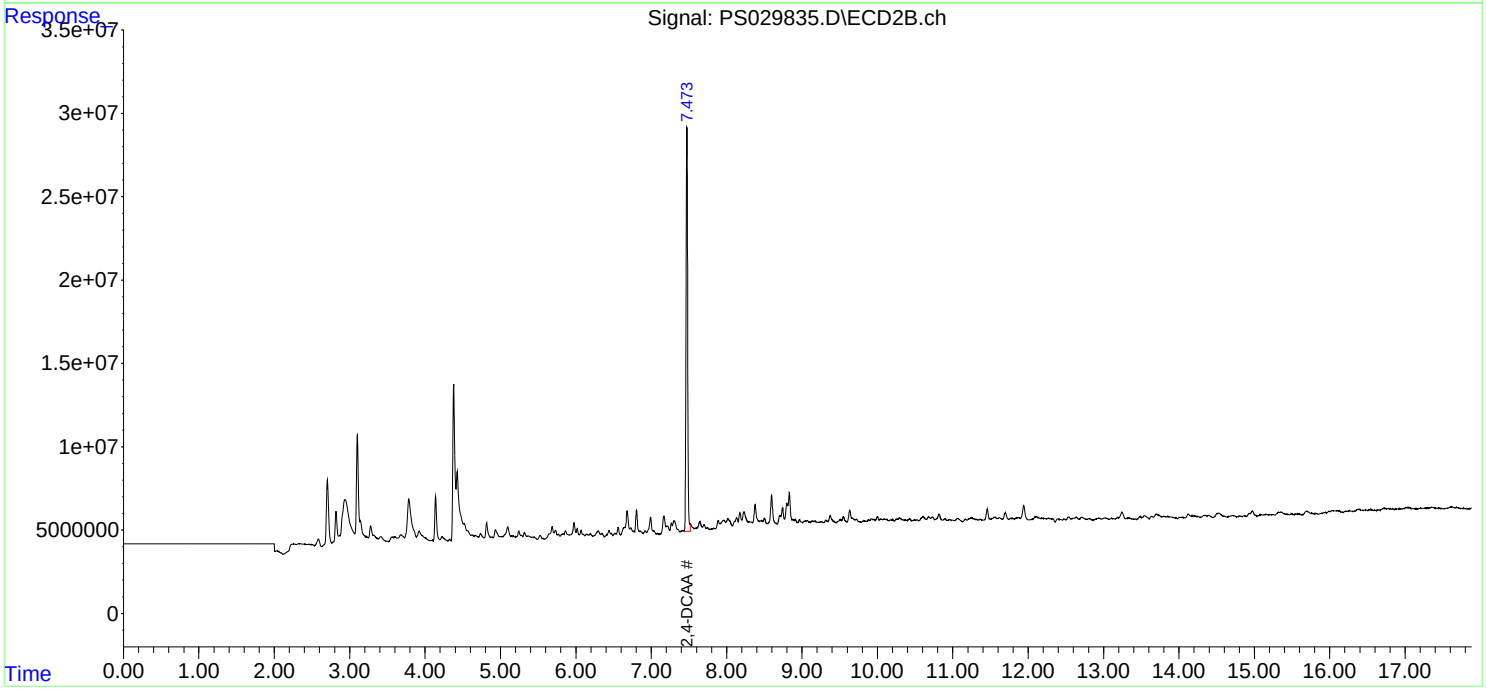
Manual Integrations APPROVED

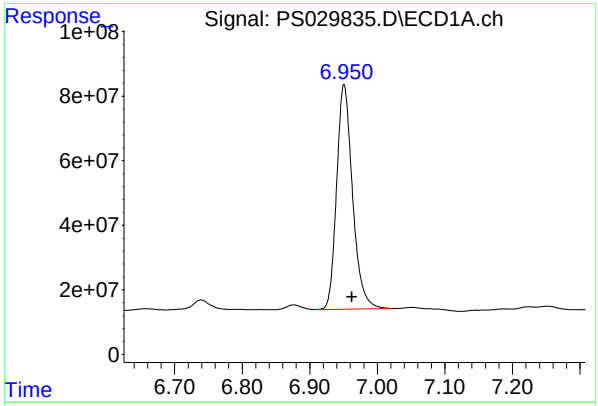
Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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







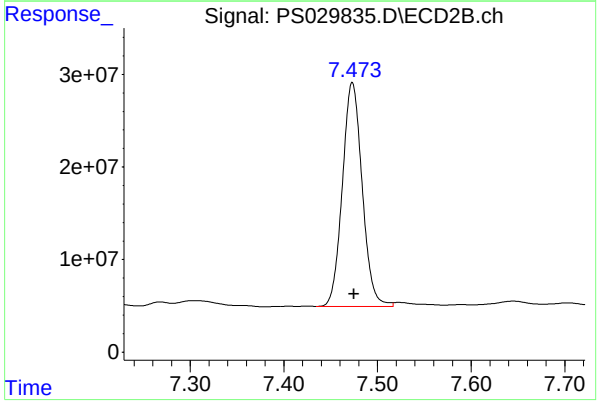
#4 2,4-DCAA

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

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025



#4 2,4-DCAA

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

Raw Data: **PS029838.D**

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

Report of Analysis

Client:	ENTACT	Date Collected:	04/17/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/17/25
Client Sample ID:	PIBLK-PS029838.D	SDG No.:	Q1800
Lab Sample ID:	I.BLK-PS029838.D	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
PS029838.D	1		04/17/25	ps041725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	532		70 (39) - 130 (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 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	7.469	1064.4E6	362.7E6	522.057	532.261
	Target Compounds						

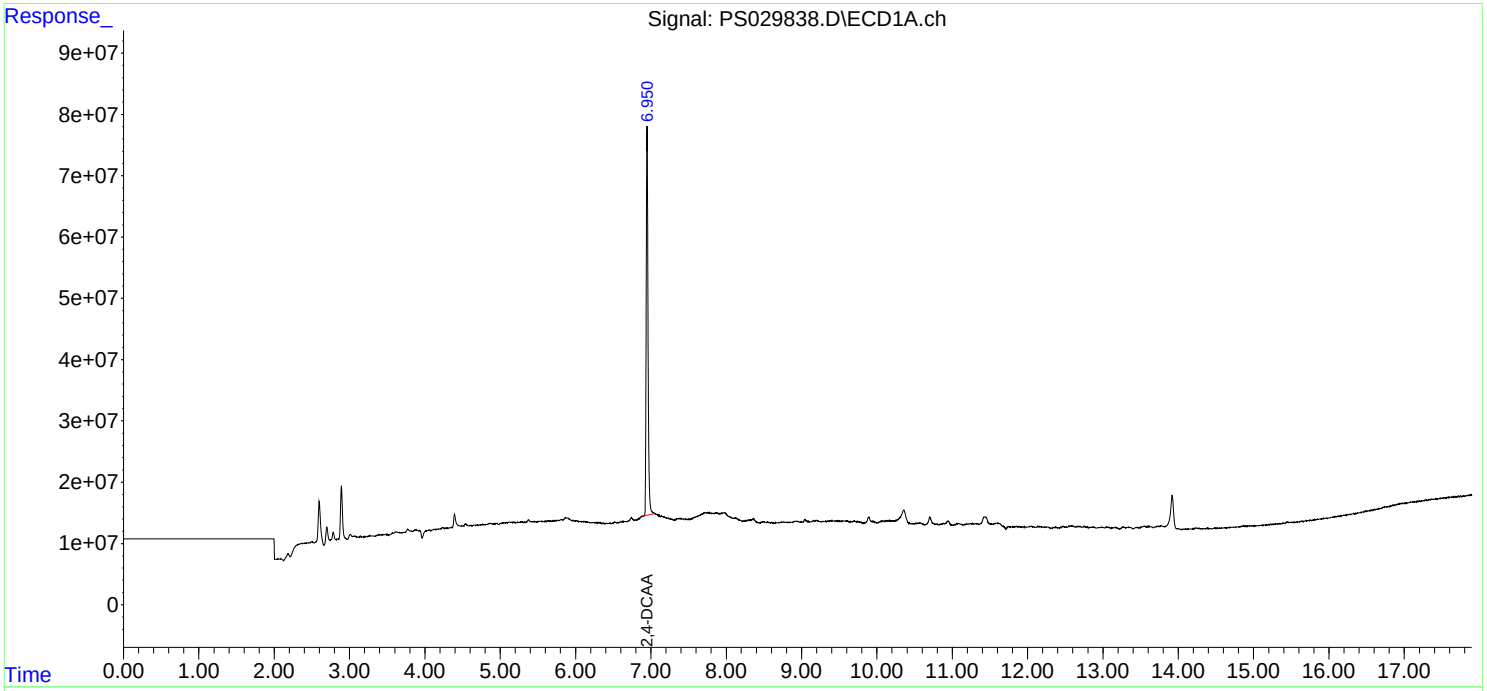
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

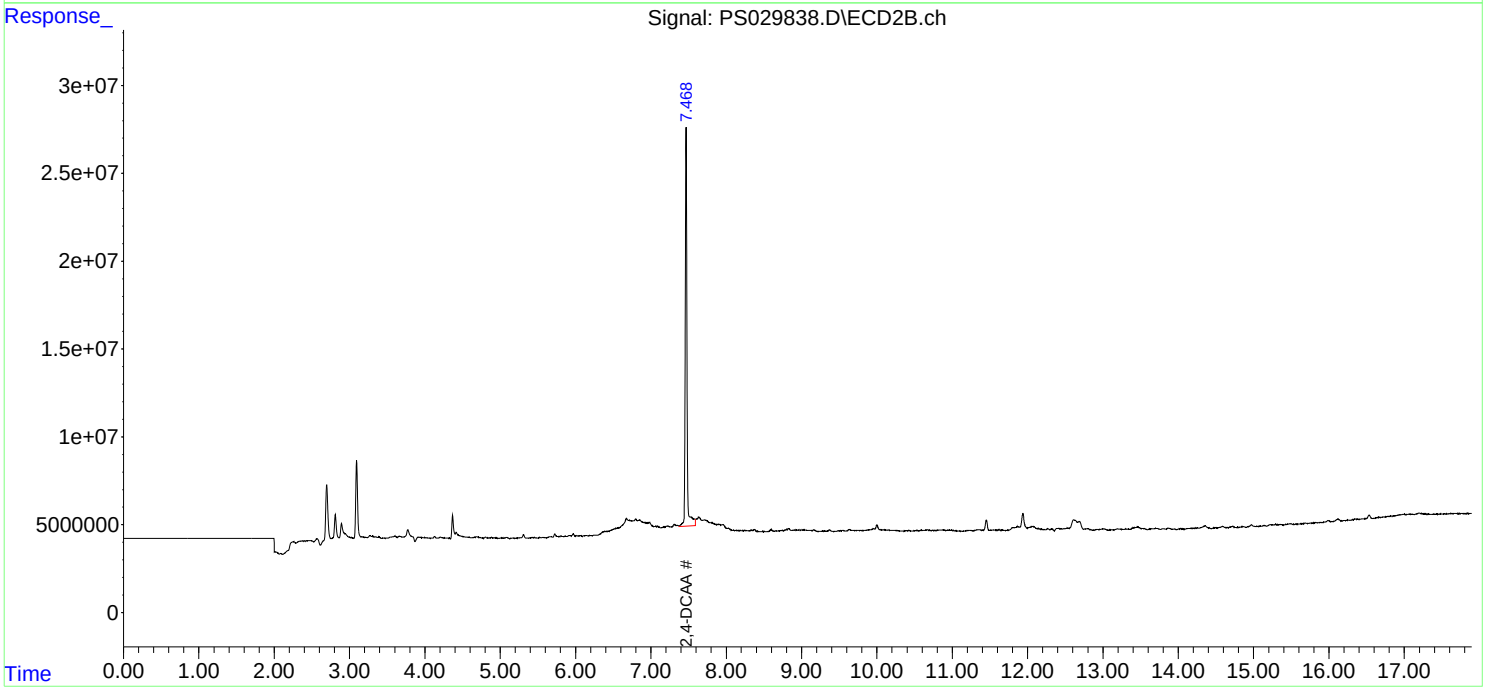
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041725\
Data File : PS029838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2025 15:37
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

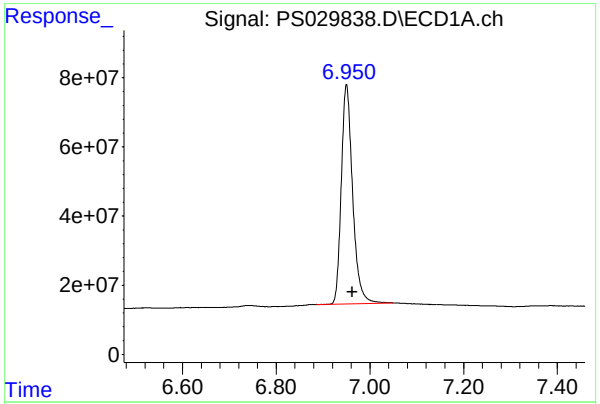
Instrument :
ECD_S
ClientSampleId :
I.BLK

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



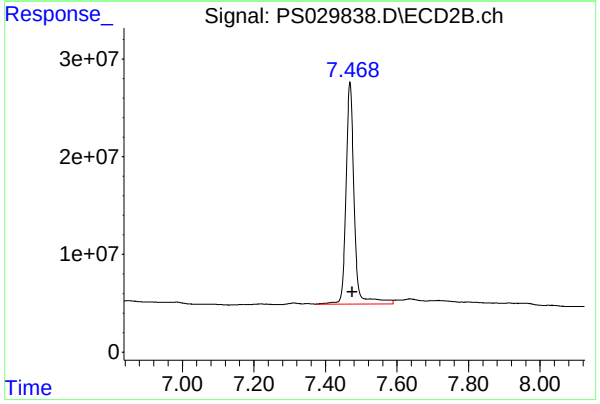




#4 2,4-DCAA

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

Raw Data: **PS029837.D**

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

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB167608BS	SDG No.:	Q1800
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	0.0052		0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0054		0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	550		70 (39) - 130 (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

Sample Results: **PS029837.D**

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

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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	MCPP	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

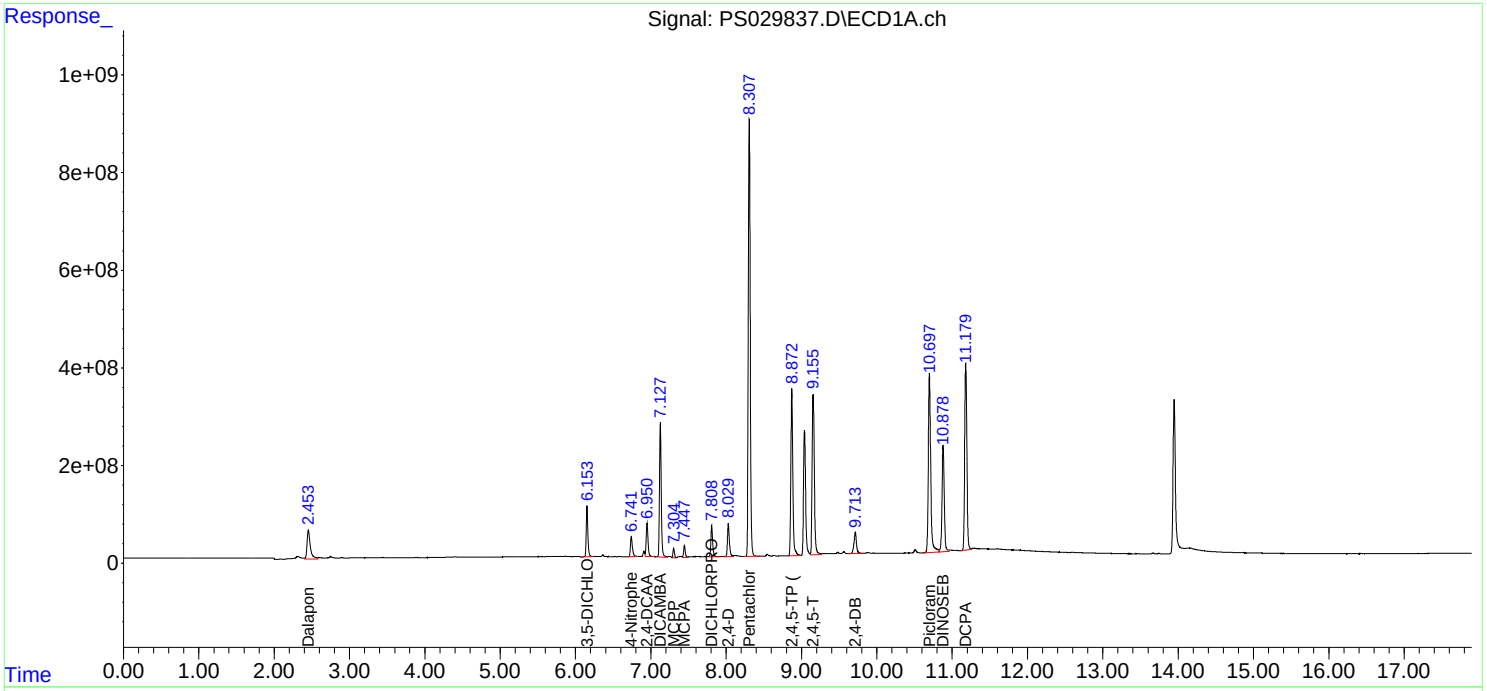
Instrument :
ECD_S
ClientSampleId :
PB167608BS

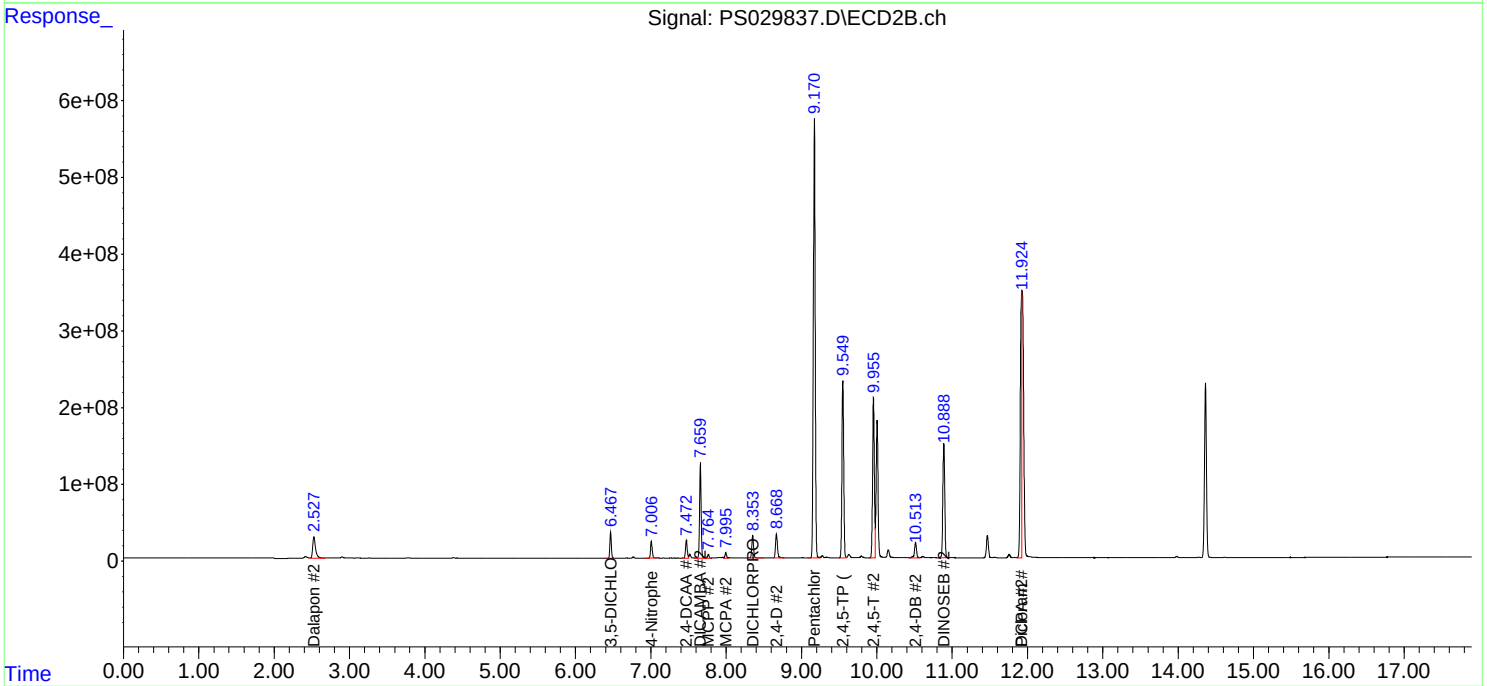
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/18/2025
Supervised By :mohammad ahmed 04/21/2025

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





Raw Data: **PS029830.D**

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

Report of Analysis

Client:	ENTACT	Date Collected:	04/11/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-CMS	SDG No.:	Q1800
Lab Sample ID:	Q1800-03MS	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 :	SW3510C		

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	0.071		0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.074		0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	519		70 (39) - 130 (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

Quantitation Report (QT Reviewed)

Sample Results: **PS029830.D**

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 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	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	MCPP	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.

Sample Results: **PS029830.D**

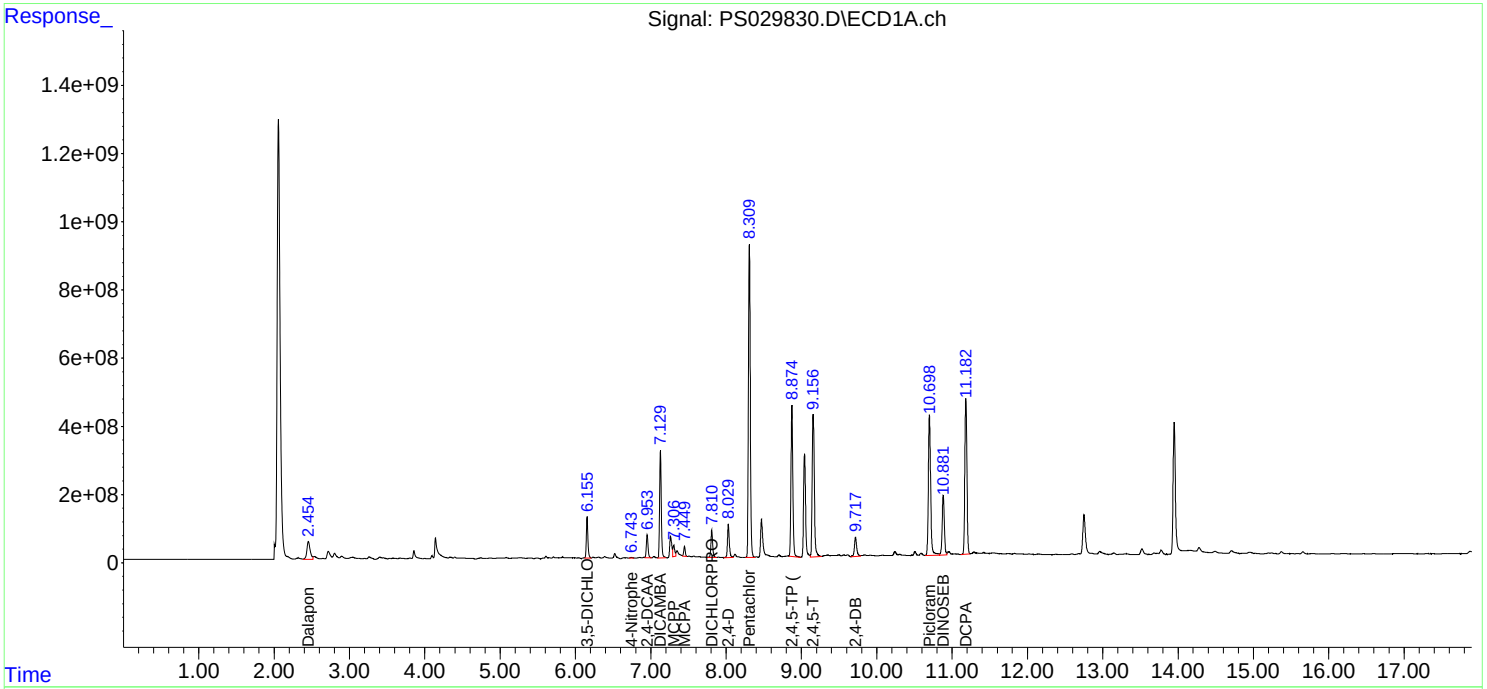
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS041625\
Data File : PS029830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Apr 2025 19:37
Operator : AR\AJ
Sample : Q1800-03MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

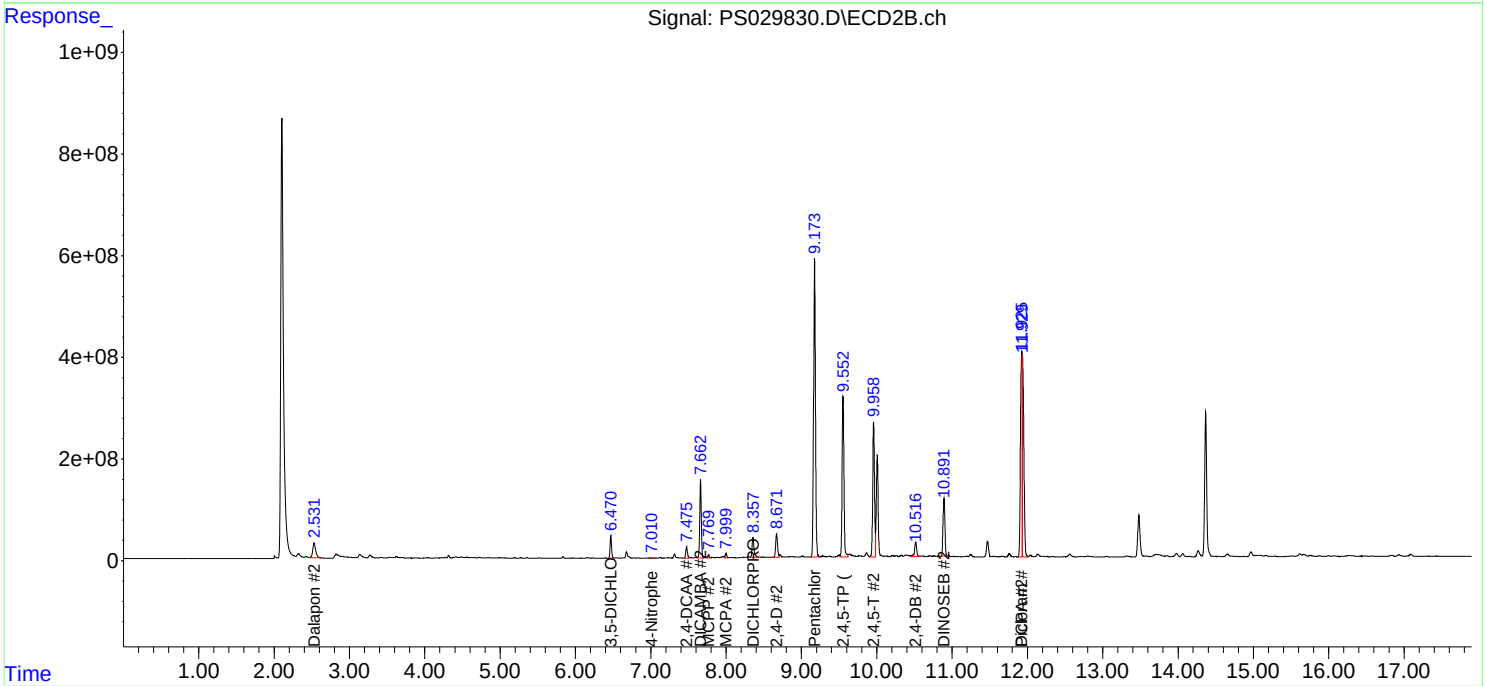
Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMS

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS029831.D**

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

Report of Analysis

Client:	ENTACT	Date Collected:	04/11/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-CMSD	SDG No.:	Q1800
Lab Sample ID:	Q1800-03MSD	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 :	SW3510C		

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	0.071		0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.074		0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	516		70 (39) - 130 (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

Sample Results: **PS029831.D**

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 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	6.952	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	MCPP	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

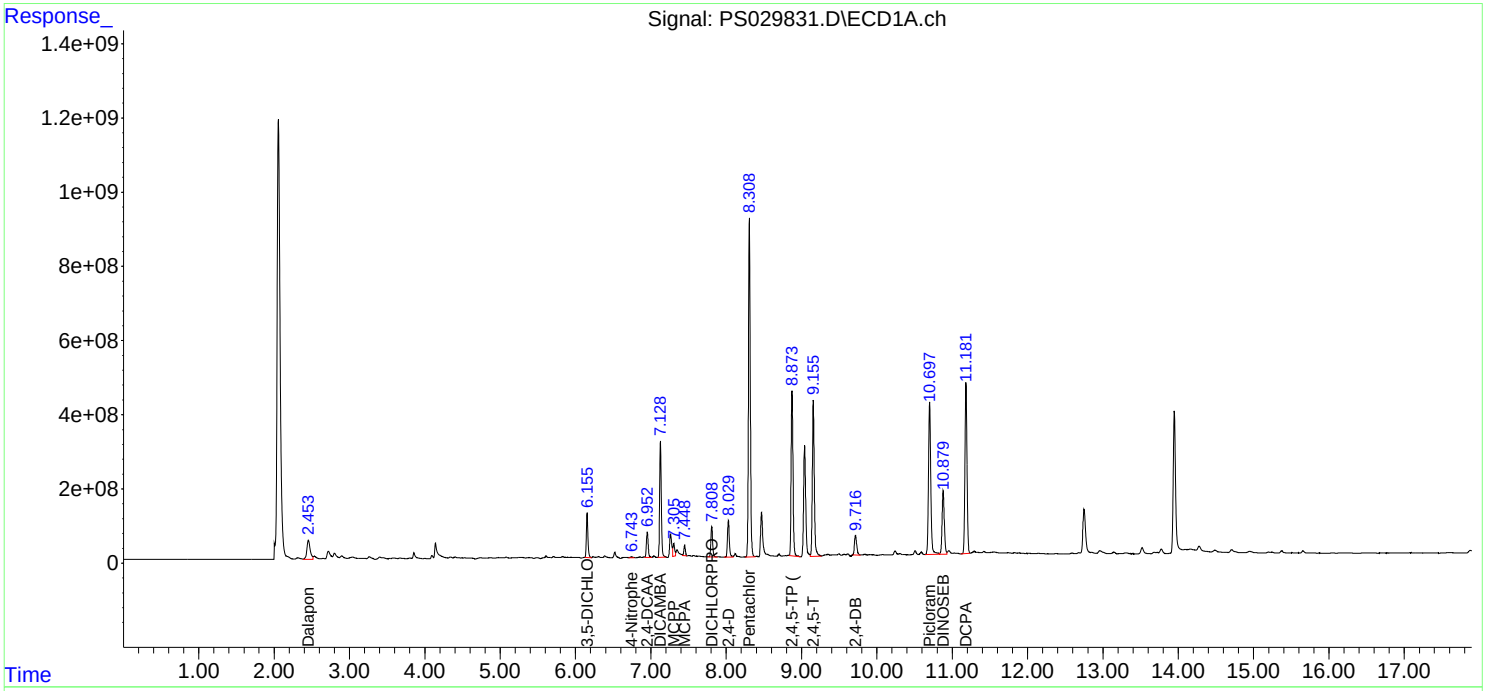
Instrument :
ECD_S
ClientSampleId :
WC-A4-01-CMSD

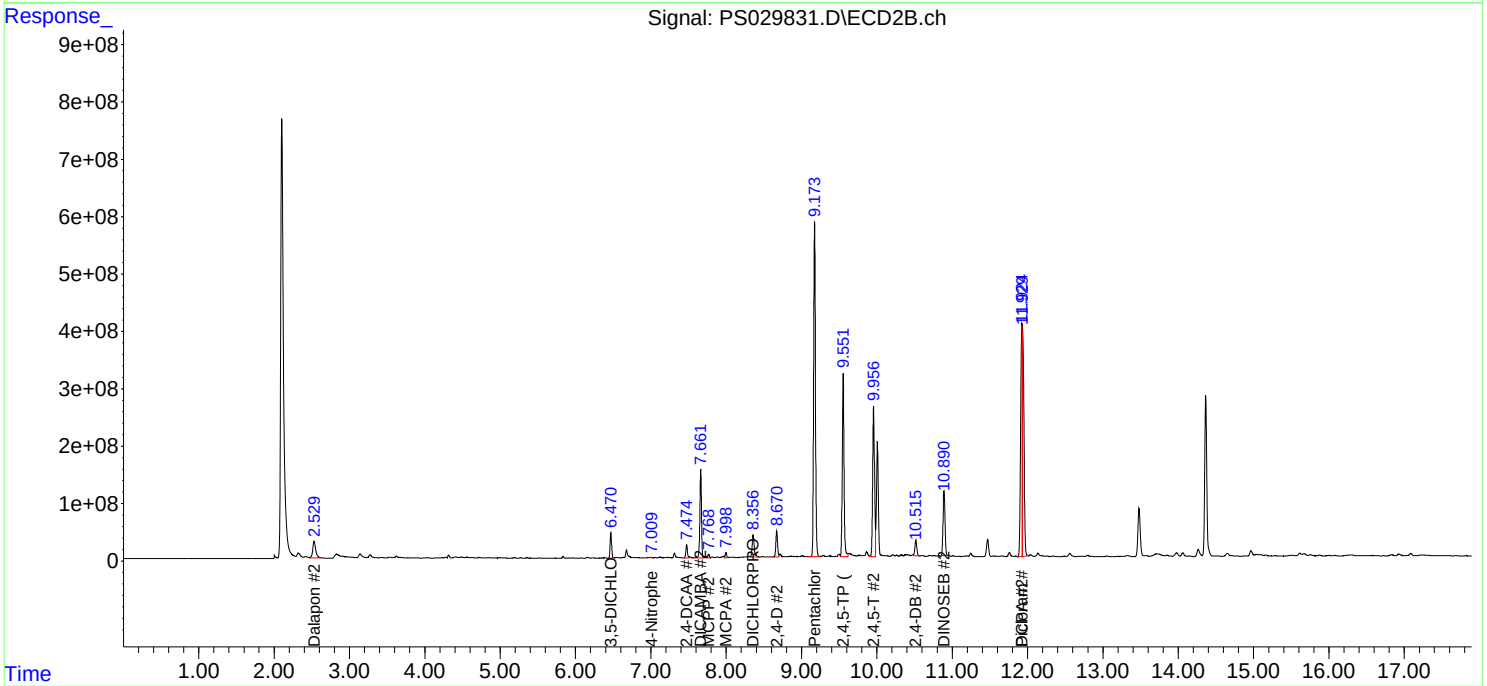
Manual Integrations APPROVED

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 x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





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

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

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

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
Q1800-03	PS029829.D	2,4-DB	Abdul	4/17/2025 8:05:21 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03	PS029829.D	2,4-DB #2	Abdul	4/17/2025 8:05:21 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
Q1800-03MS	PS029830.D	3,5-DICHLOROBENZOIC 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-DICHLOROBENZOIC 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

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

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	DCPA #2	Abdul	4/17/2025 8:05:26 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
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-DICHLOROBENZOIC 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-DICHLOROBENZOIC 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

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

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	DICAMBA	Abdul	4/17/2025 8:05:30 AM	mohammad	4/18/2025 1:19:34	Peak Integrated by Software
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

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
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	DCPA #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	DCPA #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	DCPA #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	DCPA	Abdul	4/18/2025 7:41:47 AM			Peak Integrated by Software
HSTDCCC750	PS029849.D	DCPA #2	Abdul	4/18/2025 7:41:47 AM			Peak Integrated by Software

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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

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch 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	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch 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	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch 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	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch 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	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	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

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch 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	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	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

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch 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	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	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	DCPA 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

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167587

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1

TCLP Filter ID : 115525

Start Prep Date : 04/14/2025 **Time :** 16:00

End Prep Date : 04/15/2025 **Time :** 10:25

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 10

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : IZ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	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 fiftration 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	JP TCLP Room	SHG. RJ / EA
	Preparation Group	Analysis Group / Metals

Alliance TECHNICAL GROUP

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

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

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167587

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: WC

Raw Sample Relinquished by: SM

Date/Time 04.14.25 18:00

Raw Sample Received by: SM

Raw Sample Relinquished by: WC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167608

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	**Extraction End Date :**	04/16/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	15:15
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared 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 (Ext-lab)	Y.P 4/17/25
15-20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167608

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
Q1800-03MSD	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

RS
4/16

* **Extracts relinguished on the same date as received.**

Alliance TECHNICAL GROUP

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

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Prep Standard - Chemical Standard Summary

Order ID : Q1800

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,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3884	6 N NAOH	EP2553	10/21/2024	04/21/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/21/2024

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

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
601	Acidified Sodium Sulphate 2	EP2576	01/06/2025	06/02/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025

FROM 100.00000ml of E3370 + 150.00000ml of M5173 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1321	2/200 PPM Herb Mega Mix	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.20000ml of P10549 + 1.00000ml of P11180 + 1.00000ml of P12619 + 1.00000ml of P12629 + 1.00000ml of P12686 + 95.80000ml of E3826 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

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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

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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

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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

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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

avantor™ | J.T.Baker®

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 ($(C_2H_5)_2O$) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C_2H_5OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H_2O_2)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titrable 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 9/13/22

E 3370

James T Ethier
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 QUIMICOS 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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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 RB on 7/24/23 E3551

Certificate of Analysis

MilliporeSigma

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 (H2O)		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

VWR®

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:

Pellets

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

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 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.

E 3657	E 3659
E 3654	E 3660

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E3826

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.

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3902

JCroak
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

Material No.: 9530-33
Batch No.: 0000281827

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

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

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

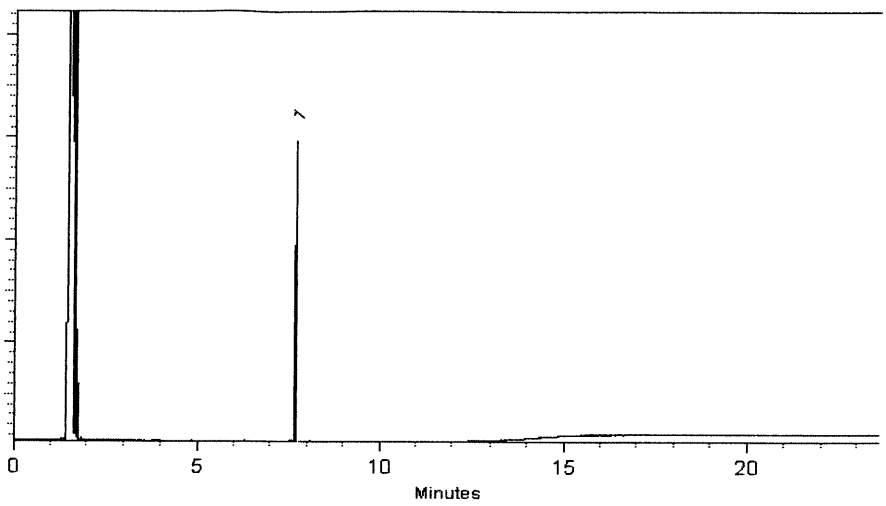
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 McGlinn - Operations Tech I

Date Mixed: 28-May-2021 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

P 11177 to P 11186

AR 11/02/21

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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%

P111177
↓
P111186

AR
11/02/21

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

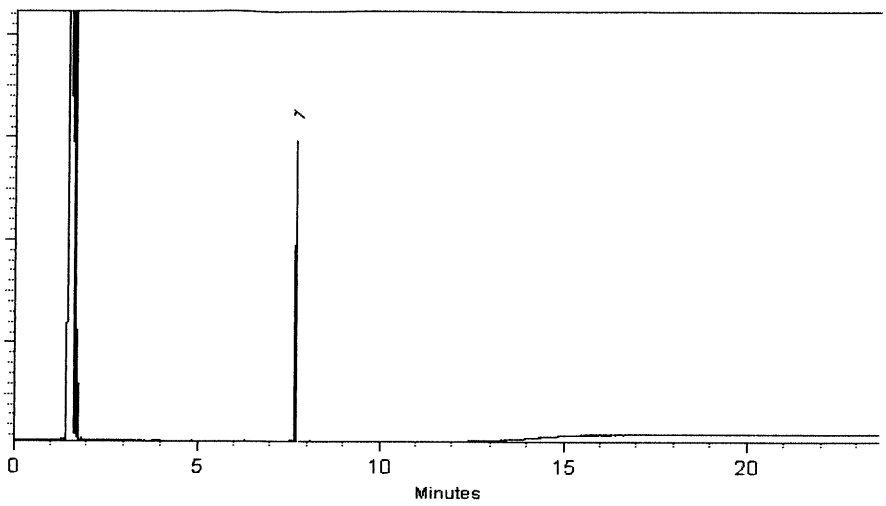
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 McGlinn - Operations Tech I

Date Mixed: 28-May-2021 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

P 11177 to P 11186

AR 11/02/21

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Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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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%

P111177
↓
P111186

AR
11/02/21

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

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Certificate of Analysis

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P12616 (S) → P12620

7/5/2023

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

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 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Nitroanisole **CAS #** 100-17-4 (Lot 24765/7) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Pentachloroanisole **CAS #** 1825-21-4 (Lot 7921100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Chloramben methyl ester **CAS #** 7286-84-2 (Lot 6487100) **Purity** 98%	199.9 µg/mL	+/- 1.4176 +/- 6.7480 +/- 6.7480	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bentazon methyl ester **CAS #** 61592-45-8 (Lot 817100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Picloram methyl ester **CAS #** 14143-55-6 (Lot 386-21B) **Purity** 98%	201.9 µg/mL	+/- 1.4315 +/- 6.8141 +/- 6.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	DCPA methyl ester (Chlorthal-dimethyl) **CAS #** 1861-32-1 (Lot 8008700) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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)

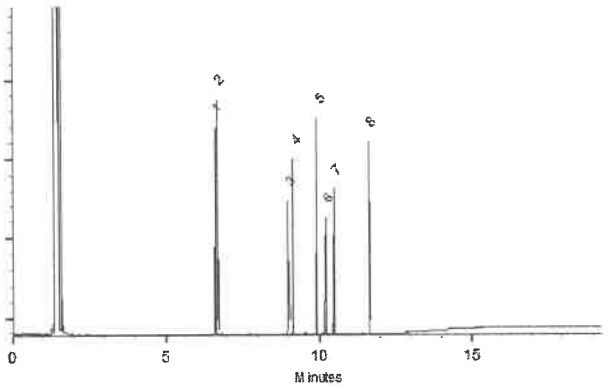
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 J Maye

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

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

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110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P12626 & P12630 (5)

7/5/2023

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

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.)

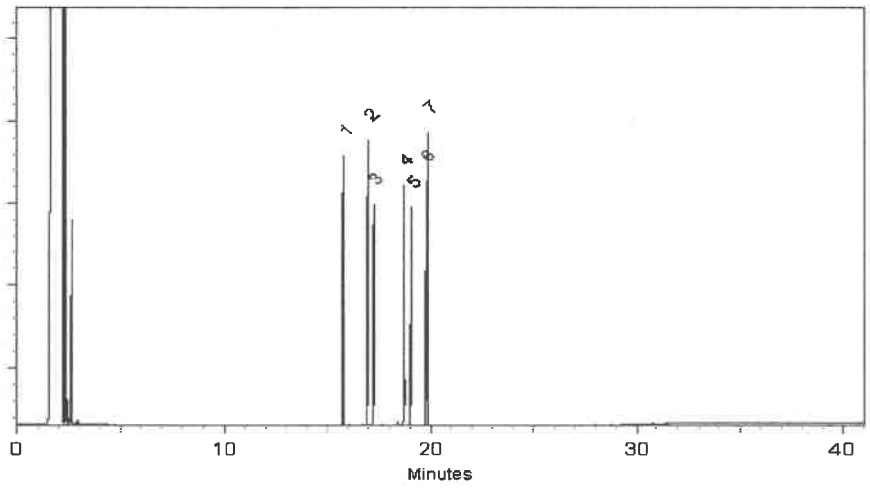
Inj. Temp:
250°C

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P 12685 ↓ P 12689 (S)

7/24/23

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

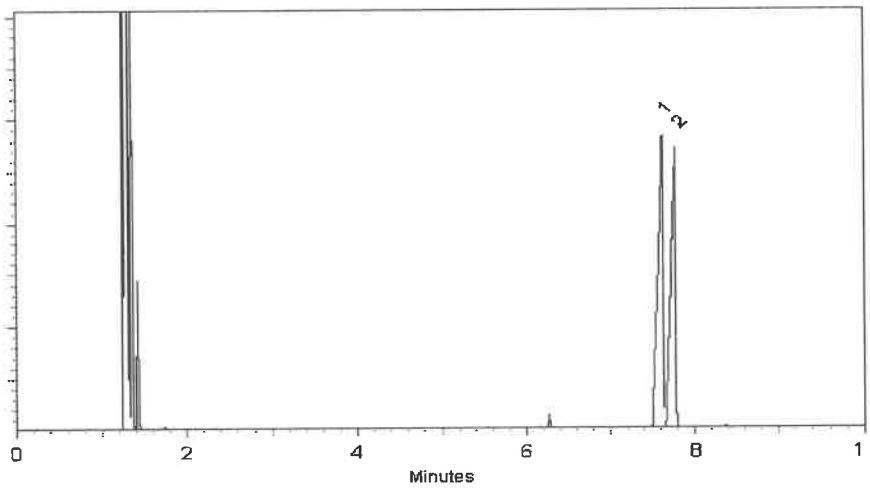
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Morgan Craighead - Mix Technician

Date Mixed: 12-Jul-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Jul-2023

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

P12706 ↓ P12715 (10)

Agilent

Trusted Answers

ISO 17034

8/15/23

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Product Number: HBM-8151M-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006752480

Lot Issue Date: 18-Jul-2023

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.

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

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

8.15.23

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12706 ↓ P12715 (10)

Agilent

Trusted Answers

ISO 17034

8/15/23

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Product Number: HBM-8151M-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006752480

Lot Issue Date: 18-Jul-2023

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.

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

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:
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Intended Use:
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Expiration of Certification:
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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

8.15.23

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

RESTEK
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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P13497 ↓ P13515 } Y.P. 08/16/24

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.

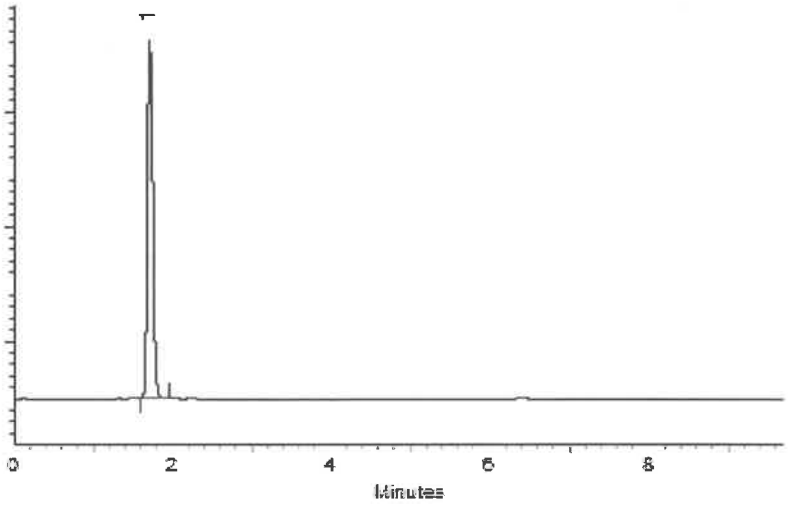
Mobile Phase A:
0.14% H3PO4 in water

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P13497 ↓ P13515 } Y.P. 08/16/24

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.

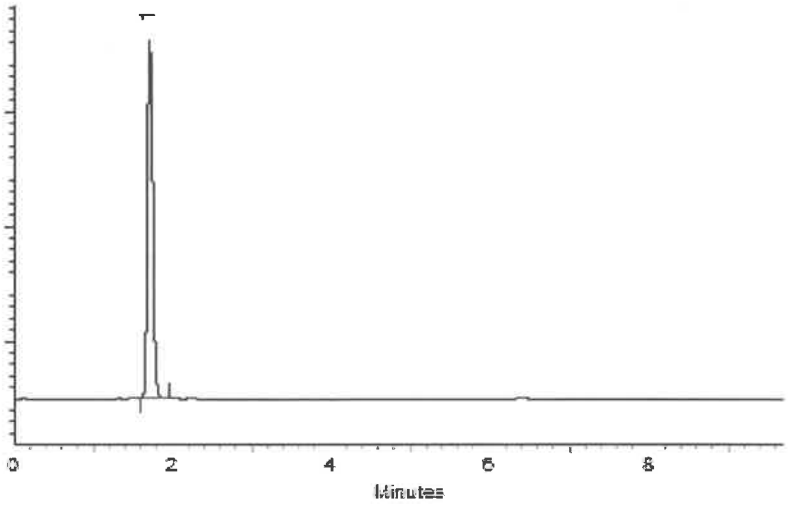
Mobile Phase A:
0.14% H3PO4 in water

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

(18)

Agilent
Trusted Answers

ISO 17034

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)

CSD-QA-015.2

9/4/2024

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

(18)

Agilent
Trusted Answers

ISO 17034

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:
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Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520 ↓ P13536 (18)

CSD-QA-015.2

9/4/2024

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

(18)

Agilent
Trusted Answers

ISO 17034

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)

CSD-QA-015.2

9/4/2024

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q1800

COC Number: 2042112

CLIENT INFORMATION

COMPANY: ENTACT, LLC
ADDRESS: 150 Bay Street, Suite 806
CITY: Jersey City STATE: NJ ZIP: 07302
ATTENTION: Jarod Stanfield
PHONE: 570-886-0442 FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY
PROJECT #: E9309 LOCATION: Brooklyn, NY
PROJECT MANAGER: Jarod Stanfield
E-MAIL: jstanfield@entact.com
PHONE: 570-886-0442 FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC PO# E9309
ADDRESS: 999 Oakmont Plaza Drive, Suite 300
CITY: Westmont STATE: IL ZIP: 60559
ATTENTION: Wendy Murray PHONE: 800-936-8228

DATA TURNAROUND INFORMATION

FAX: 5 DAYS*
HARD COPY: _____ DAYS*
EDD 5 DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other _____
- ☐ EDD Format _____

ANALYSIS

	TCLP VOCs	TCLP ICP Metals	TCLP Herb	TCLP Pest	TCLP SVOCs	TCLP pH	I/C/R	PCBs	Oil & Grease
	1	2	3	4	5	6	7	8	9
PRESERVATIVES	E	E	E	E	E	E	E	E	E
	1	2	3	4	5	6	7	8	9

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

	CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9
1.		WC-A4-01-G	Soil		X	4/11	12:00	1	X								
2.		WC-A4-01-C	Soil	X		4/11	12:00	11		X	X	X	X	X	X	X	X
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME		
RELINQUISHED BY SAMPLER 1. Jarod Stanfield	4/11 12:00	RECEIVED BY 1.	4-14-25 0700
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.	
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 6°C ☐ Ice in Cooler?: _____

Comments: (Adjust Factor+1) IL GW #1

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT **YELLOW** - ALLIANCE COPY **PINK** - SAMPLER COPY

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q1800

COC Number: 2042112

CLIENT INFORMATION

COMPANY: ENTACT, LLC
ADDRESS: 150 Bay Street, Suite 806
CITY Jersey City STATE: NJ ZIP: 07302
ATTENTION: Jarod Stanfield
PHONE: 570-886-0442 FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY
PROJECT #: E9309 LOCATION: Brooklyn, NY
PROJECT MANAGER: Jarod Stanfield
E-MAIL: jstanfield@entact.com
PHONE: 570-886-0442 FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC PO# E9309
ADDRESS: 999 Oakmont Plaza Drive, Suite 300
CITY: Westmont STATE: IL ZIP: 60559
ATTENTION: Wendy Murray PHONE: 800-936-8228

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- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

10	11	12	13	14	15	16		
ASTM COD	ASTM Ammonia-Nitrogen	ASTM O&G	ASTM TS	TS, TVS	pH	Paint Filter		

PRESERVATIVES

1	2	3	4	5	6	7	8	9
E	E	E	E	E	E	E		

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9
1.	WC-A4-01-G	Soil		X	4/11	12:00	1									
2.	WC-A4-01-C	Soil	X		4/11	12:00	11	X	X	X	X	X	X	X		
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. Jarod Stanfield	4/11 12:00	1. 4-14-25 0700
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 6-C ☐ Ice in Cooler?:

Comments: (Adjust Factor +1) IR Gun #4

Page of

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

QA Control Code: A2070148