

Cover Page

Order ID : Q1124

Project ID : Weekly Storage Blanks

Client : Chemtech Consulting Group

Lab Sample Number

Q1124-01
Q1124-02
Q1124-03
Q1124-04
Q1124-05
Q1124-06
Q1124-07
Q1124-08
Q1124-09
Q1124-10
Q1124-11
Q1124-12
Q1124-13
Q1124-14

Client Sample Number

Storage-Blank-SOIL-REF-6
Storage-Blank-WATER-REF-5
Storage-Blank-WATER-REF-4
Storage-Blank-SAMPLE-MANAGEMENT
SVOC-GPC-BLANK
PEST-GPC-BLANK
PEST-GPC-BLANK-SPIKE
PCB-GPC-BLANK
PCB-GPC-BLANK-SPIKE
SVOC-GPC2-BLANK
PEST-GPC2-BLANK
PEST-GPC2-BLANK-SPIKE
PCB-GPC2-BLANK
PCB-GPC2-BLANK-SPIKE

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: 1/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1124

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: NILESH PRAJAPATI

Date: 01/29/2025

LAB CHRONICLE

OrderID:	Q1124	OrderDate:	1/17/2025 10:06:00 AM
Client:	Chemtech Consulting Group	Project:	Weekly Storage Blanks
Contact:	QA Officer	Location:	E11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1124-11	PEST-GPC2-BLANK	SOIL	Pesticide-TCL	SFAM_PEST	01/17/25	01/20/25	01/21/25	01/17/25
Q1124-12	PEST-GPC2-BLANK-SP IKE	SOIL	Pesticide-TCL	SFAM_PEST	01/17/25	01/20/25	01/21/25	01/17/25
Q1124-13	PCB-GPC2-BLANK	SOIL	PCB	SFAM_PCB	01/17/25	01/20/25	01/21/25	01/17/25
Q1124-14	PCB-GPC2-BLANK-SPI KE	SOIL	PCB	SFAM_PCB	01/17/25	01/20/25	01/21/25	01/17/25

Hit Summary Sheet
SW-846

SDG No.: Q1124

Order ID: Q1124

Client: Chemtech Consulting Group

Project ID: Weekly Storage Blanks

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PEST-GPC2-BLANK-SPIKE								
Q1124-12	PEST-GPC2-BLANK· SOIL		gamma-BHC (Lindane)	19.0		0.48	5.10	ug/kg
Q1124-12	PEST-GPC2-BLANK· SOIL		Heptachlor	19.0		0.57	5.10	ug/kg
Q1124-12	PEST-GPC2-BLANK· SOIL		Aldrin	19.0		0.39	5.10	ug/kg
Q1124-12	PEST-GPC2-BLANK· SOIL		Dieldrin	38.0		0.45	9.90	ug/kg
Q1124-12	PEST-GPC2-BLANK· SOIL		Endrin	37.0		0.63	9.90	ug/kg
Q1124-12	PEST-GPC2-BLANK· SOIL		4,4-DDT	39.0		0.63	9.90	ug/kg
Total Concentration:				171.000				



QC SUMMARY

Surrogate Summary

SDG No.: Q1124

Client: Chemtech Consulting Group

Analytical Method: SFAM_PEST

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PD087410.D	PIBLK-PD087410.D	TCX	1	20	0.22	112		30	150
		DCB	1	40	0.33	84		30	150
		TCX	2	20	0.22	112		30	150
		DCB	2	40	0.33	84		30	150
I.BLK-PD087463.D	PIBLK-PD087463.D	TCX	1	20	0.23	113		30	150
		DCB	1	40	0.33	84		30	150
		TCX	2	20	0.22	111		30	150
		DCB	2	40	0.33	82		30	150
Q1124-11	PEST-GPC2-BLANK	TCX	1	20	0	0	*	30	150
		DCB	1	40	0	0	*	30	150
		TCX	2	20	0	0	*	30	150
		DCB	2	40	0	0	*	30	150
Q1124-12	PEST-GPC2-BLANK-SPIKE	TCX	1	20	0	0	*	30	150
		DCB	1	40	0	0	*	30	150
		TCX	2	20	0	0	*	30	150
		DCB	2	40	0	0	*	30	150
I.BLK-PD087468.D	PIBLK-PD087468.D	TCX	1	20	0.23	114		30	150
		DCB	1	40	0.34	85		30	150
		TCX	2	20	0.23	113		30	150
		DCB	2	40	0.33	84		30	150



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/17/25
Project:	Weekly Storage Blanks	Date Received:	01/17/25
Client Sample ID:	PEST-GPC2-BLANK	SDG No.:	Q1124
Lab Sample ID:	Q1124-11	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087465.D	1	01/20/25 10:26	01/21/25 10:47	PB166141

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.39	U	0.39	5.10	ug/kg
319-85-7	beta-BHC	0.39	U	0.39	5.10	ug/kg
319-86-8	delta-BHC	1.40	U	1.40	5.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.48	U	0.48	5.10	ug/kg
76-44-8	Heptachlor	0.57	U	0.57	5.10	ug/kg
309-00-2	Aldrin	0.39	U	0.39	5.10	ug/kg
1024-57-3	Heptachlor epoxide	0.42	U	0.42	5.10	ug/kg
959-98-8	Endosulfan I	0.39	U	0.39	5.10	ug/kg
60-57-1	Dieldrin	0.45	U	0.45	9.90	ug/kg
72-55-9	4,4-DDE	0.48	U	0.48	9.90	ug/kg
72-20-8	Endrin	0.63	U	0.63	9.90	ug/kg
33213-65-9	Endosulfan II	0.57	U	0.57	9.90	ug/kg
72-54-8	4,4-DDD	0.57	U	0.57	9.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.60	U	0.60	9.90	ug/kg
50-29-3	4,4-DDT	0.63	U	0.63	9.90	ug/kg
72-43-5	Methoxychlor	0.75	U	0.75	51.0	ug/kg
53494-70-5	Endrin ketone	0.45	U	0.45	9.90	ug/kg
7421-93-4	Endrin Aldehyde	0.54	U	0.54	9.90	ug/kg
5103-71-9	cis-Chlordane	0.39	U	0.39	5.10	ug/kg
5103-74-2	trans-Chlordane	0.39	U	0.39	5.10	ug/kg
8001-35-2	Toxaphene	24.0	U	24.0	510	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0	*	30 - 150	%	SPK: 20
2051-24-3	Decachlorobiphenyl	0	*	30 - 150	%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/17/25
Project:	Weekly Storage Blanks	Date Received:	01/17/25
Client Sample ID:	PEST-GPC2-BLANK	SDG No.:	Q1124
Lab Sample ID:	Q1124-11	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087465.D	1	01/20/25 10:26	01/21/25 10:47	PB166141

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_D\Data\PD012125\
Data File : PD087465.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 10:47
Operator : AR\AJ
Sample : Q1124-11
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEST-GPC2-BLANK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

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

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

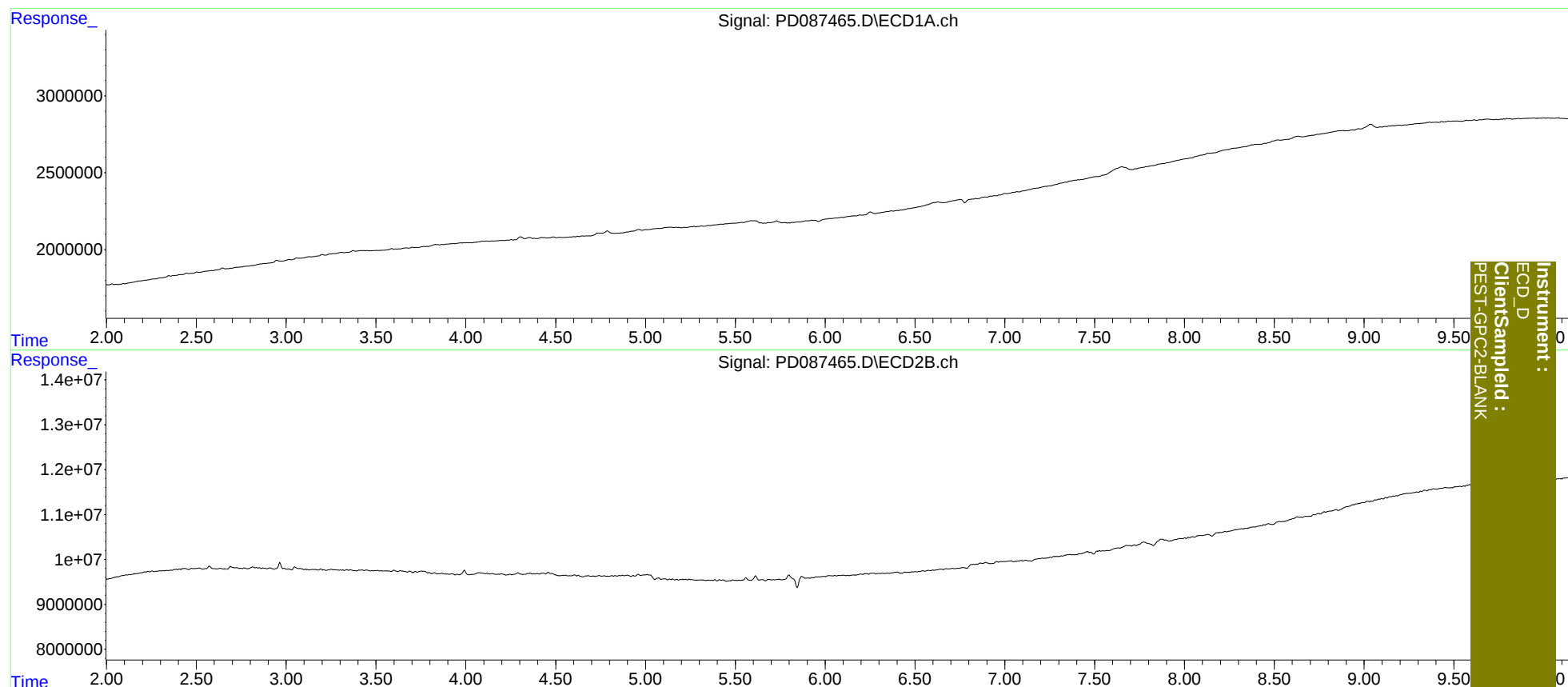
Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087465.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 10:47
Operator : AR\AJ
Sample : Q1124-11
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Instrument :
ECD_D
ClientSampled :
PEST-GPC2-BLANK

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/17/25
Project:	Weekly Storage Blanks	Date Received:	01/17/25
Client Sample ID:	PEST-GPC2-BLANK-SPIKE	SDG No.:	Q1124
Lab Sample ID:	Q1124-12	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087466.D	1	01/20/25 10:26	01/21/25 11:01	PB166141

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.39	U	0.39	5.10	ug/kg
319-85-7	beta-BHC	0.39	U	0.39	5.10	ug/kg
319-86-8	delta-BHC	1.40	U	1.40	5.10	ug/kg
58-89-9	gamma-BHC (Lindane)	19.0		0.48	5.10	ug/kg
76-44-8	Heptachlor	19.0		0.57	5.10	ug/kg
309-00-2	Aldrin	19.0		0.39	5.10	ug/kg
1024-57-3	Heptachlor epoxide	0.42	U	0.42	5.10	ug/kg
959-98-8	Endosulfan I	0.39	U	0.39	5.10	ug/kg
60-57-1	Dieldrin	38.0		0.45	9.90	ug/kg
72-55-9	4,4-DDE	0.48	U	0.48	9.90	ug/kg
72-20-8	Endrin	37.0		0.63	9.90	ug/kg
33213-65-9	Endosulfan II	0.57	U	0.57	9.90	ug/kg
72-54-8	4,4-DDD	0.57	U	0.57	9.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.60	U	0.60	9.90	ug/kg
50-29-3	4,4-DDT	39.0		0.63	9.90	ug/kg
72-43-5	Methoxychlor	0.75	U	0.75	51.0	ug/kg
53494-70-5	Endrin ketone	0.45	U	0.45	9.90	ug/kg
7421-93-4	Endrin Aldehyde	0.54	U	0.54	9.90	ug/kg
5103-71-9	cis-Chlordane	0.39	U	0.39	5.10	ug/kg
5103-74-2	trans-Chlordane	0.39	U	0.39	5.10	ug/kg
8001-35-2	Toxaphene	24.0	U	24.0	510	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0	*	30 - 150	%	SPK: 20
2051-24-3	Decachlorobiphenyl	0	*	30 - 150	%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/17/25
Project:	Weekly Storage Blanks	Date Received:	01/17/25
Client Sample ID:	PEST-GPC2-BLANK-SPIKE	SDG No.:	Q1124
Lab Sample ID:	Q1124-12	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087466.D	1	01/20/25 10:26	01/21/25 11:01	PB166141

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_D\Data\PD012125\
 Data File : PD087466.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Jan 2025 11:01
 Operator : AR\AJ
 Sample : Q1124-12
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEST-GPC2-BLANK-SPIKE

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 01/22/2025
 Supervised By :Ankita Jodhani 01/22/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 22 03:17:55 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
 Quant Title : GC Extractables
 QLast Update : Thu Jan 16 13:39:07 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

Target Compounds

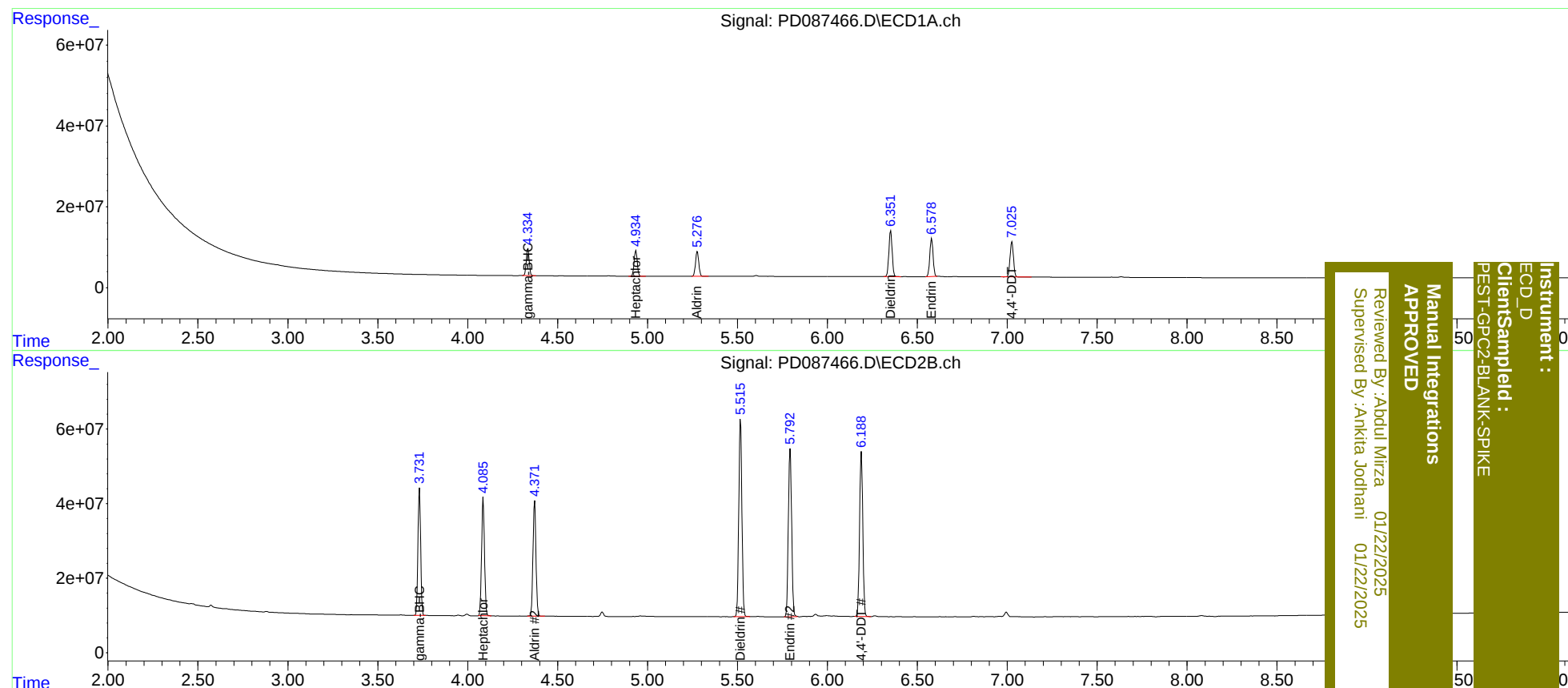
3) MA	gamma-BHC...	4.335	3.732	76464154	357.9E6	19.009	19.537
4) MA	Heptachlor	4.935	4.086	77622687	356.3E6	18.990	19.088
5) MB	Aldrin	5.277	4.372	76759551	354.9E6	19.166	19.638
13) MA	Dieldrin	6.352	5.517	144.9E6	642.5E6	38.013	38.497
14) MA	Endrin	6.579	5.792	120.1E6	569.4E6	36.994	38.105m
17) MA	4,4'-DDT	7.026	6.189	113.4E6	552.8E6	39.141	40.116

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087466.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 11:01
Operator : AR\AJ
Sample : Q1124-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Reviewed By: Abdul Mirza 01/22/2025
Supervised By: Ankita Jodhani 01/22/2025

Manual Integrations
APPROVED

Instrument :
ECD_D
Client Sampled :
PEST-GPC2-BLANK-SPIKE

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087466.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 11:01
Operator : AR\AJ
Sample : Q1124-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

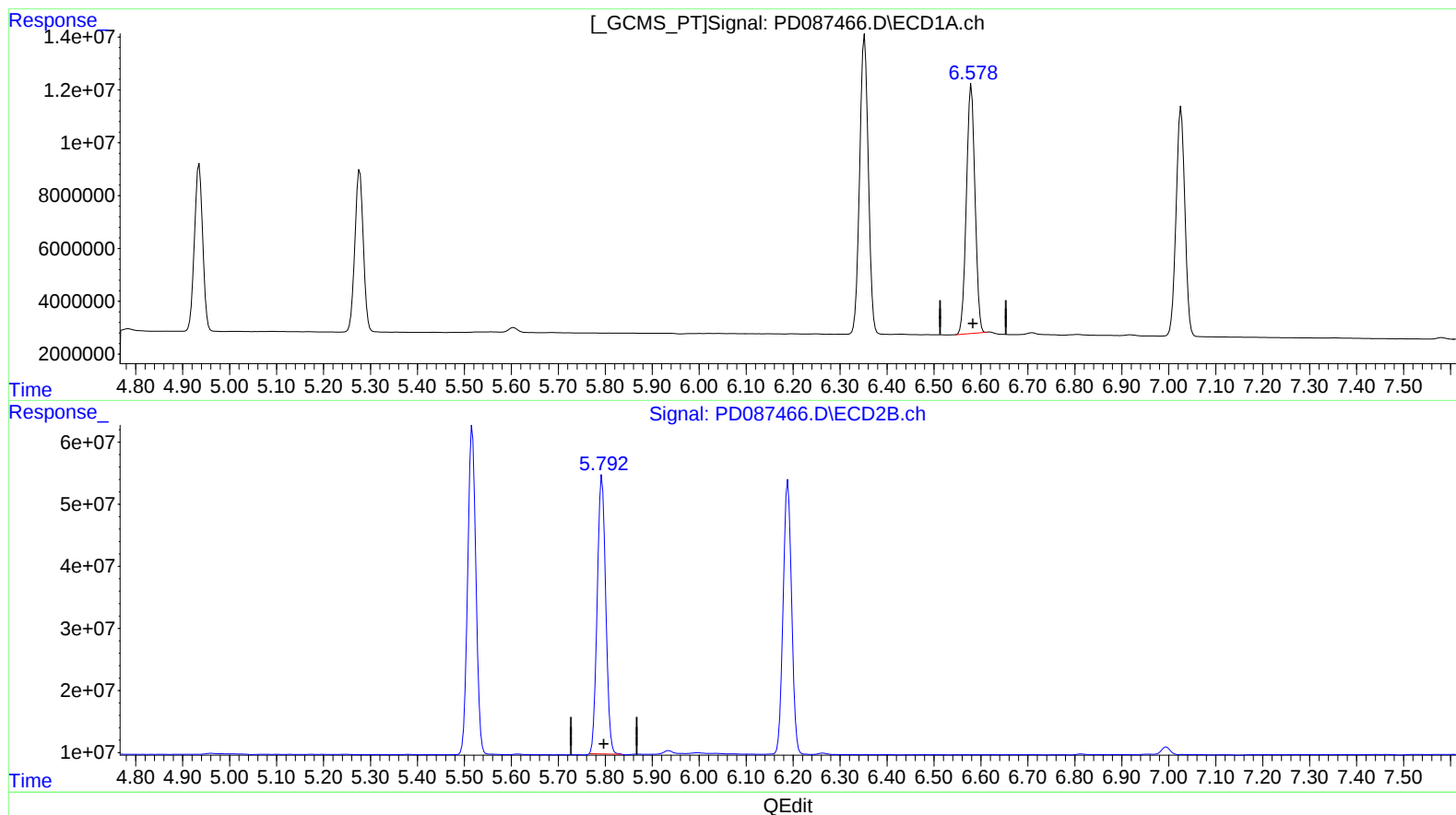
Instrument :
ECD_D
ClientSampleId :
PEST-GPC2-BLANK-SPIKE

Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/22/2025
Supervised By :Ankita Jodhani 01/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 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



(14) Endrin (MA)

6.579min 36.994 ng/ml

response 120072300

(14) Endrin #2 (MA)

5.793min 37.804 ng/ml

response 564877186

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087466.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 11:01
Operator : AR\AJ
Sample : Q1124-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

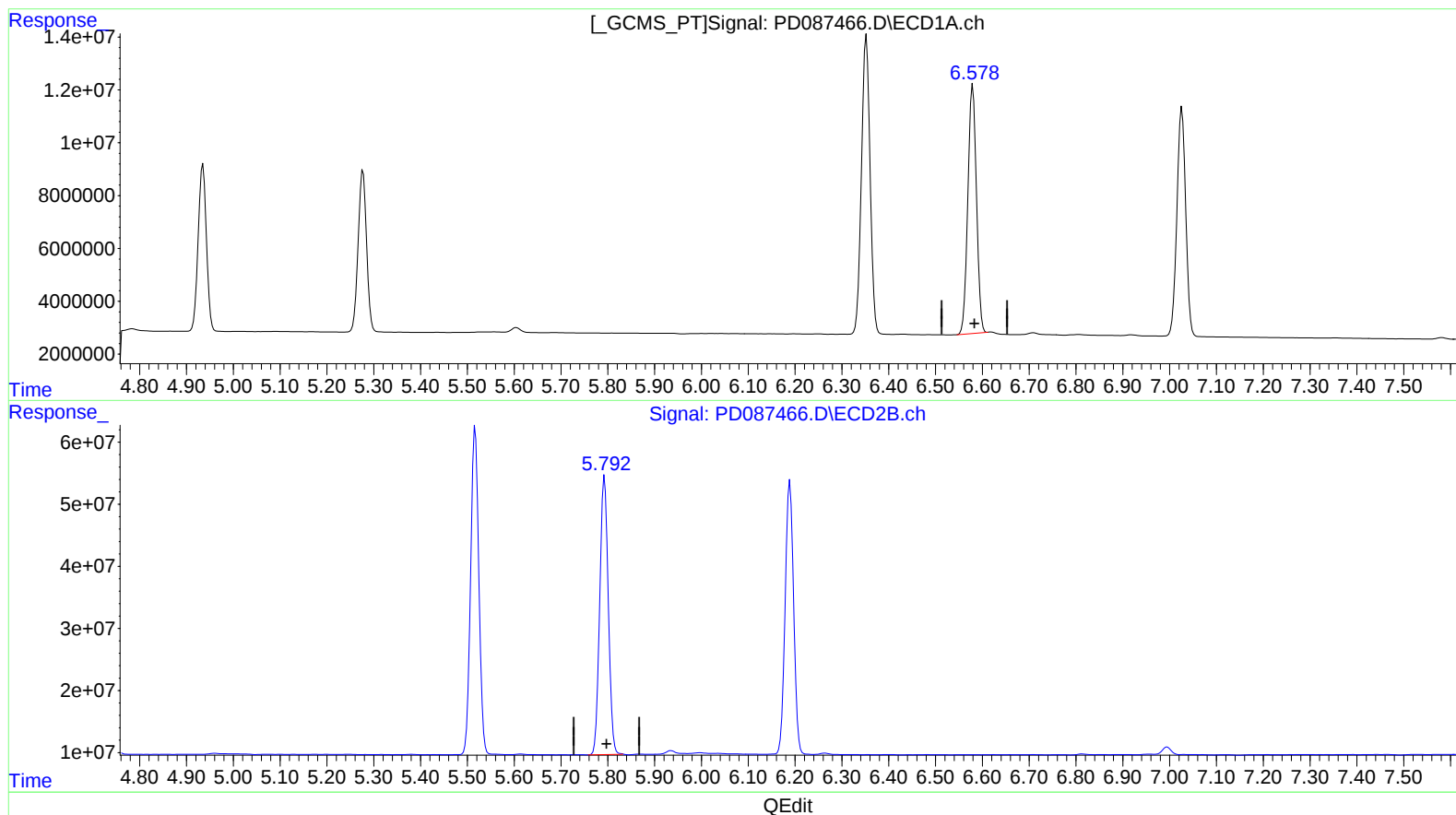
Instrument :
ECD_D
ClientSampleId :
PEST-GPC2-BLANK-SPIKE

Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/22/2025
Supervised By :Ankita Jodhani 01/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 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



(14) Endrin (MA)

6.579min 36.994 ng/ml

response 120072300

(14) Endrin #2 (MA)

5.792min 38.105 ng/ml m

response 569370633



CALIBRATION SUMMARY



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG NO.: Q1124

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No.: CCAL01 Date Analyzed: 01/21/2025

Lab Sample No.: INDA302 Data File : PD087469.D Time Analyzed: 12:26

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.711	6.641	6.781	2749490.000	2808630.000	2.2
4,4'-DDT	7.027	6.957	7.097	2898230.000	2911880.000	0.5
alpha-BHC	4.004	3.954	4.054	4154340.000	4270510.000	2.8
DCB	9.080	8.980	9.180	3343300.000	3445940.000	3.1
Dieldrin	6.353	6.283	6.423	3812360.000	3918870.000	2.8
Endosulfan I	6.080	6.010	6.150	3483940.000	3579850.000	2.8
Endrin	6.580	6.510	6.650	3245680.000	3224330.000	-0.7
gamma-BHC (Lindane)	4.335	4.285	4.385	4022600.000	4118680.000	2.4
Heptachlor	4.935	4.885	4.985	4087560.000	4247520.000	3.9
Methoxychlor	7.499	7.429	7.569	1584350.000	1623370.000	2.5
TCX	3.555	3.505	3.605	2037980.000	2130250.000	4.5



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG NO.: Q1124

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No.: CCAL01 Date Analyzed: 01/21/2025

Lab Sample No.: INDA302 Data File : PD087469.D Time Analyzed: 12:26

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.936	5.866	6.006	13369700.000	13582600.000	1.6
4,4'-DDT	6.190	6.120	6.260	13780800.000	13904100.000	0.9
alpha-BHC	3.395	3.345	3.445	19801700.000	20208700.000	2.1
DCB	8.080	7.980	8.180	14484400.000	14584800.000	0.7
Dieldrin	5.518	5.448	5.588	16690700.000	16990100.000	1.8
Endosulfan I	5.252	5.182	5.322	15872300.000	16033600.000	1.0
Endrin	5.795	5.725	5.865	14942300.000	15240500.000	2.0
gamma-BHC (Lindane)	3.732	3.682	3.782	18316800.000	18683700.000	2.0
Heptachlor	4.086	4.036	4.136	18664300.000	18848200.000	1.0
Methoxychlor	6.761	6.691	6.831	6159300.000	6214330.000	0.9
TCX	2.881	2.831	2.931	12367800.000	12746400.000	3.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
 Data File : PD087469.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Jan 2025 12:26
 Operator : AR\AJ
 Sample : INDA302
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 INDA3207

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 22 03:18:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
 Quant Title : GC Extractables
 QLast Update : Thu Jan 16 13:39:07 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

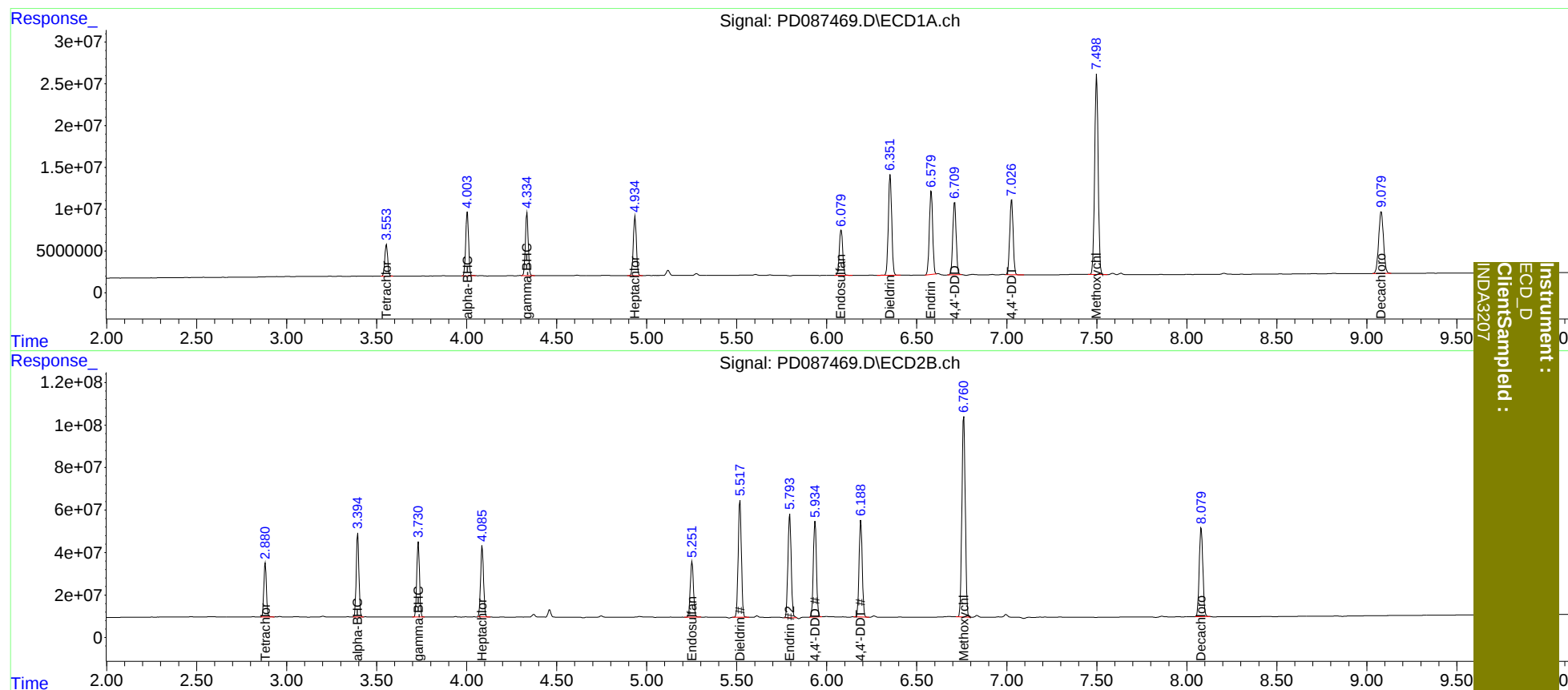
System Monitoring Compounds							
1)	SA Tetrachlo...	3.555	2.881	42604955	254.9E6	20.905	20.612
2)	SA Decachlor...	9.080	8.080	137.8E6	583.4E6	41.228	40.277
Target Compounds							
2)	A alpha-BHC	4.004	3.395	85410262	404.2E6	20.559	20.411
3)	MA gamma-BHC...	4.335	3.732	82373575	373.7E6	20.478	20.401
4)	MA Heptachlor	4.935	4.086	84950356	377.0E6	20.783	20.197
9)	A Endosulfan I	6.080	5.252	71597028	320.7E6	20.551	20.203
13)	MA Dieldrin	6.353	5.518	156.8E6	679.6E6	41.118	40.718
14)	MA Endrin	6.580	5.795	129.0E6	609.6E6	39.737	40.798
16)	A 4,4'-DDD	6.711	5.936	112.3E6	543.3E6	40.860	40.637
17)	MA 4,4'-DDT	7.027	6.190	116.5E6	556.2E6	40.188	40.358
20)	A Methoxychlor	7.499	6.761	324.7E6	1242.9E6	204.926	201.787

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087469.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 12:26
Operator : AR\AJ
Sample : INDA302
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:18:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG NO.: Q1124

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No.: CCAL02 Date Analyzed: 01/21/2025

Lab Sample No.: INDB302 Data File : PD087470.D Time Analyzed: 12:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDE	6.200	6.130	6.270	3522120.000	3468540.000	-1.5
Aldrin	5.277	5.227	5.327	4005090.000	3991030.000	-0.4
beta-BHC	4.519	4.469	4.569	1796040.000	1815200.000	1.1
cis-Chlordane	6.031	5.961	6.101	3717560.000	3691870.000	-0.7
DCB	9.080	8.980	9.180	3343300.000	3394900.000	1.5
delta-BHC	4.767	4.717	4.817	4132340.000	4107870.000	-0.6
Endosulfan II	6.790	6.720	6.860	3219360.000	3263470.000	1.4
Endosulfan sulfate	7.153	7.083	7.223	3087300.000	3039760.000	-1.5
Endrin aldehyde	6.919	6.849	6.989	2519770.000	2471850.000	-1.9
Endrin ketone	7.634	7.564	7.704	3442730.000	3401200.000	-1.2
Heptachlor epoxide	5.696	5.626	5.766	3736230.000	3728280.000	-0.2
TCX	3.554	3.504	3.604	2037980.000	2149780.000	5.5
trans-Chlordane	5.950	5.880	6.020	3684100.000	3610360.000	-2.0



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG NO.: Q1124

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No.: CCAL02 Date Analyzed: 01/21/2025

Lab Sample No.: INDB302 Data File : PD087470.D Time Analyzed: 12:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDE	5.381	5.311	5.451	16378700.000	16085200.000	-1.8
Aldrin	4.373	4.323	4.423	18074100.000	18027500.000	-0.3
beta-BHC	4.027	3.977	4.077	8530450.000	8489780.000	-0.5
cis-Chlordane	5.195	5.125	5.265	17307600.000	17227500.000	-0.5
DCB	8.080	7.980	8.180	14484400.000	14357000.000	-0.9
delta-BHC	4.264	4.214	4.314	18663800.000	18592800.000	-0.4
Endosulfan II	6.086	6.016	6.156	14814700.000	14631400.000	-1.2
Endosulfan sulfate	6.487	6.417	6.557	14537000.000	14248200.000	-2.0
Endrin aldehyde	6.264	6.194	6.334	11528900.000	11301100.000	-2.0
Endrin ketone	6.996	6.926	7.066	15882000.000	15620600.000	-1.6
Heptachlor epoxide	4.877	4.807	4.947	16925600.000	16763500.000	-1.0
TCX	2.881	2.831	2.931	12367800.000	12888300.000	4.2
trans-Chlordane	5.131	5.061	5.201	17977800.000	17778300.000	-1.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
 Data File : PD087470.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Jan 2025 12:40
 Operator : AR\AJ
 Sample : INDB302
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 INDB3208

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 22 03:19:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
 Quant Title : GC Extractables
 QLast Update : Thu Jan 16 13:39:07 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

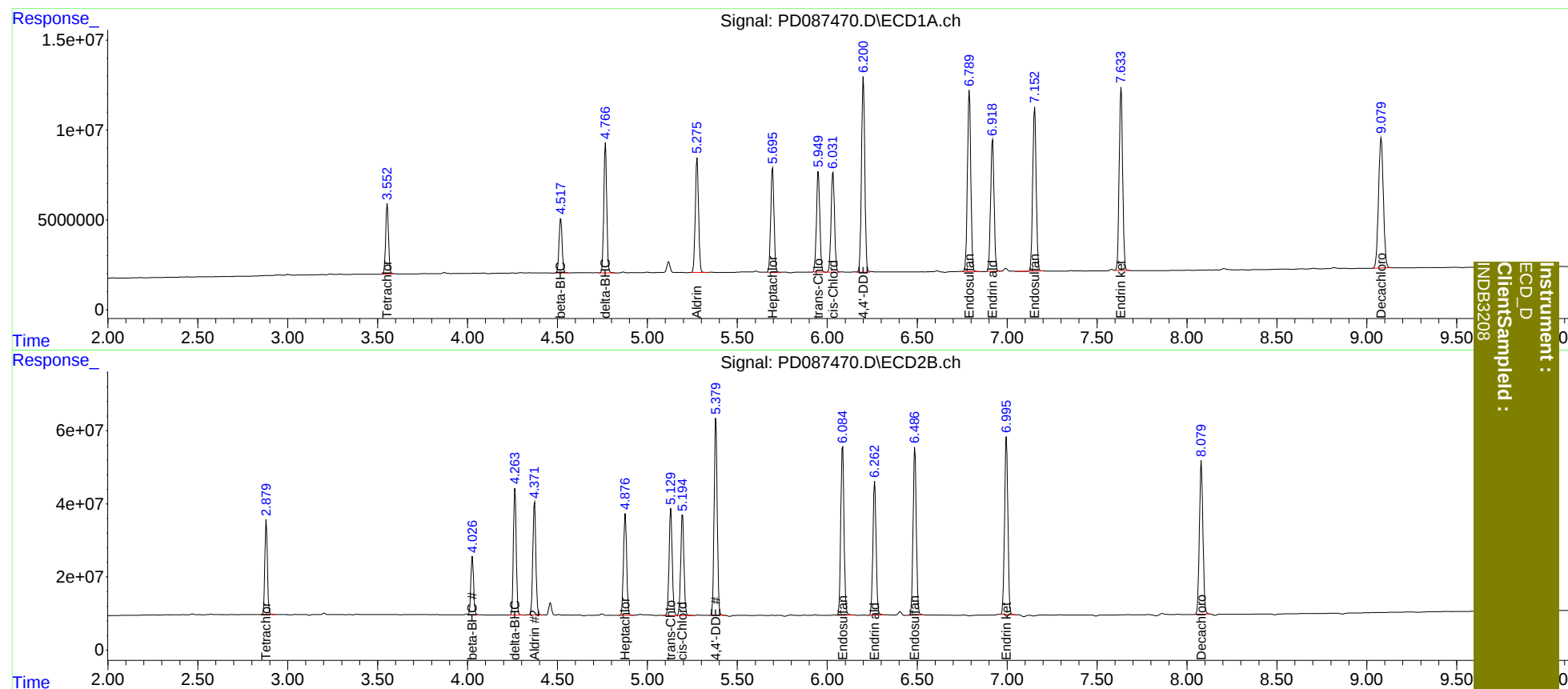
System Monitoring Compounds							
1)	SA Tetrachlo...	3.554	2.881	42995689	257.8E6	21.097	20.842
27)	SA Decachlor...	9.080	8.080	135.8E6	574.3E6	40.617	39.648
Target Compounds							
5)	MB Aldrin	5.277	4.373	79820659	360.6E6	19.930	19.948
6)	B beta-BHC	4.519	4.027	36303965	169.8E6	20.213	19.905
7)	B delta-BHC	4.767	4.264	82157473	371.9E6	19.882	19.924
8)	B Heptachlo...	5.696	4.877	74565605	335.3E6	19.957	19.809
10)	B trans-Chl...	5.950	5.131	72207235	355.6E6	19.600	19.778
11)	B cis-Chlor...	6.031	5.195	73837464	344.6E6	19.862m	19.907
12)	B 4,4'-DDE	6.200	5.381	138.7E6	643.4E6	39.392m	39.283
15)	B Endosulfa...	6.790	6.086	130.5E6	585.3E6	40.548	39.505
18)	B Endrin al...	6.919	6.264	98874026	452.0E6	39.239	39.210
19)	B Endosulfa...	7.153	6.487	121.6E6	569.9E6	39.384	39.205
21)	B Endrin ke...	7.634	6.996	136.0E6	624.8E6	39.518	39.342

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087470.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 12:40
Operator : AR\AJ
Sample : INDB302
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:19:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

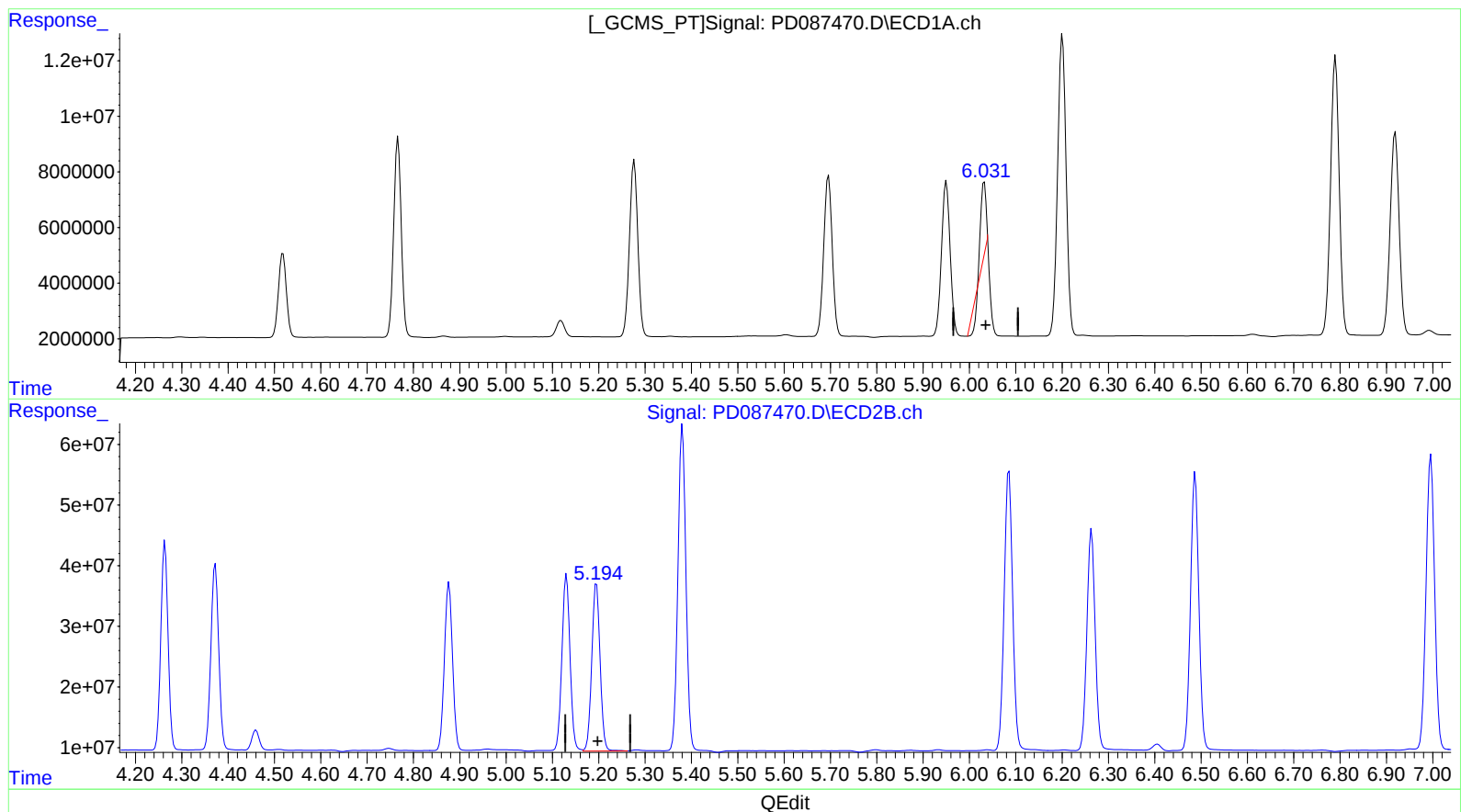
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087470.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 12:40
Operator : AR\AJ
Sample : INDB302
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:19:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 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



(11) cis-Chlordane (B)

6.032min 4.775 ng/ml

response 17750029

(11) cis-Chlordane #2 (B)

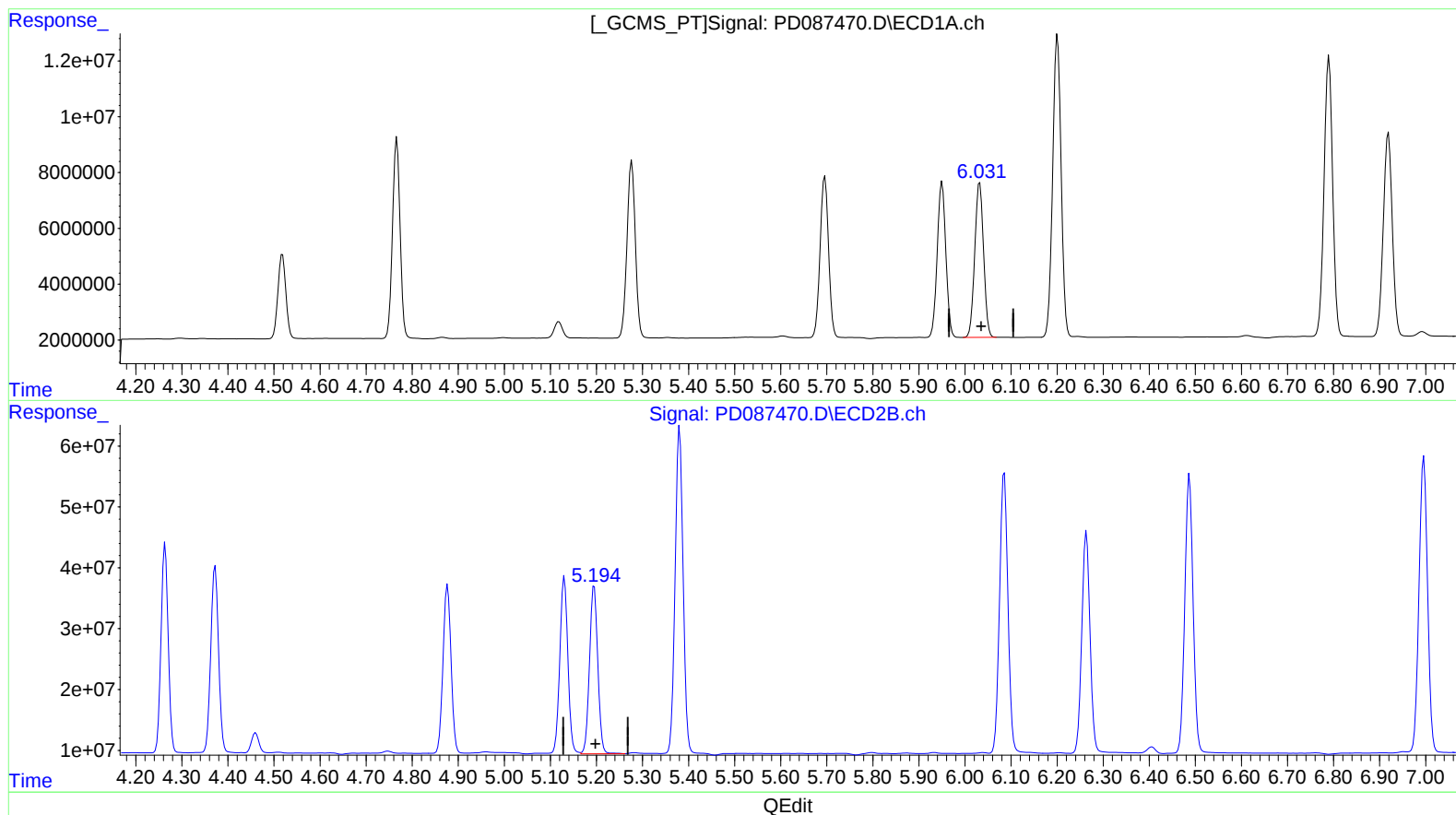
5.195min 19.907 ng/ml

response 344550747

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087470.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 12:40
Operator : AR\AJ
Sample : INDB302
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:19:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 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



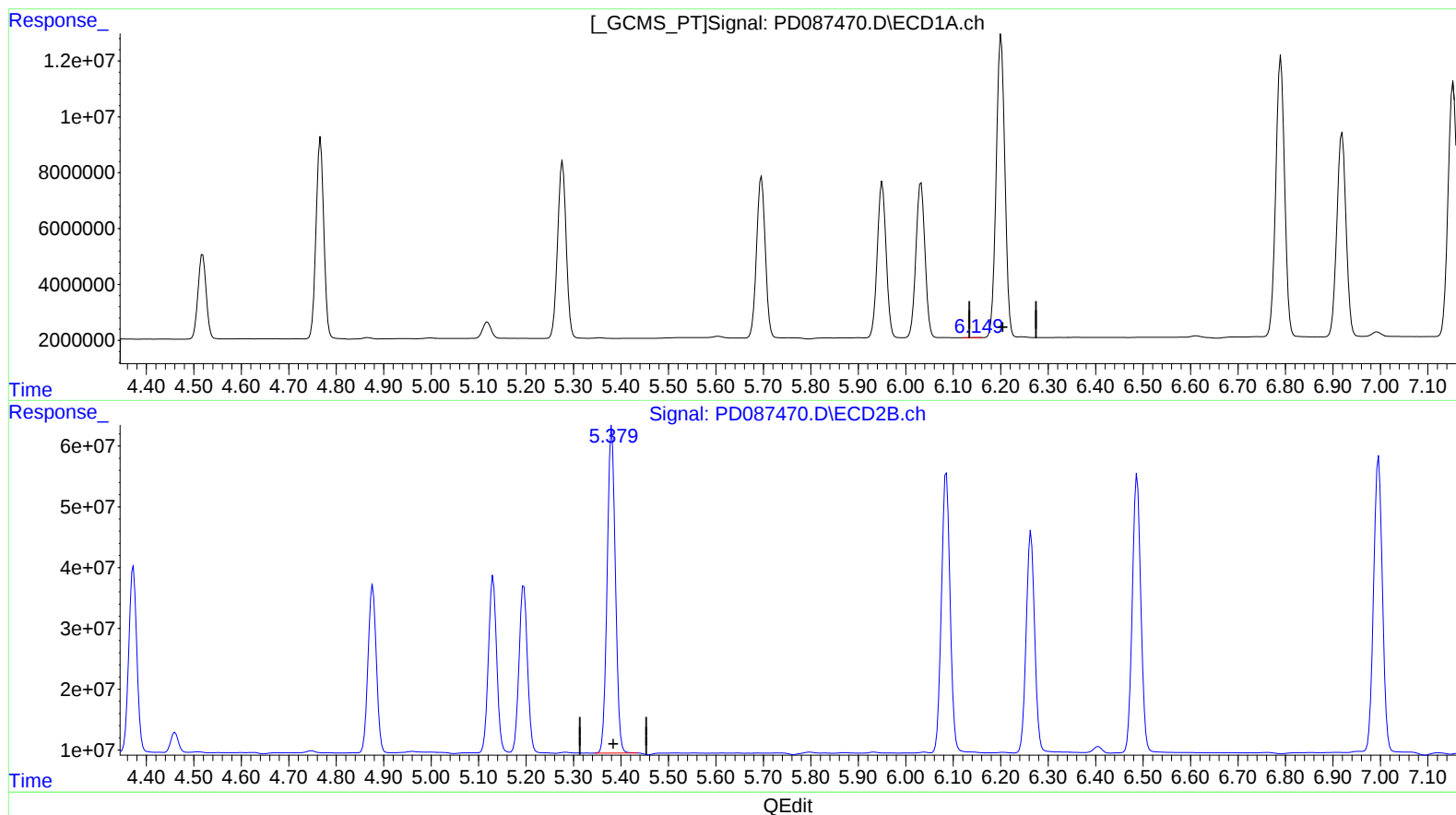
(11) cis-Chlordane (B)
6.031min 19.862 ng/ml m
response 73837464

(11) cis-Chlordane #2 (B)
5.195min 19.907 ng/ml
response 344550747

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087470.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 12:40
Operator : AR\AJ
Sample : INDB302
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:19:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 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



(12) 4,4'-DDE (B)

6.151min 0.007 ng/ml

response 24811

(12) 4,4'-DDE #2 (B)

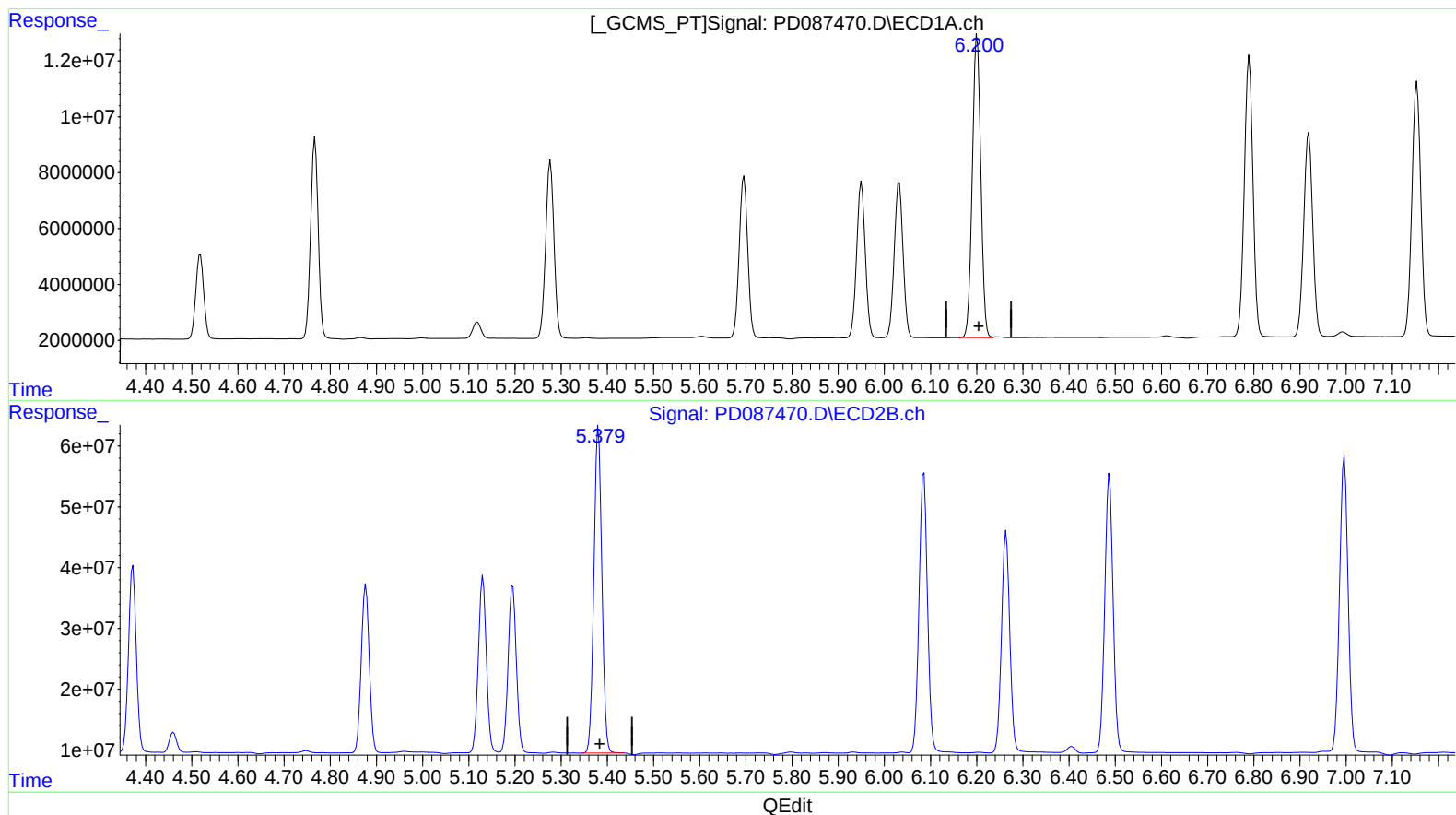
5.381min 39.283 ng/ml

response 643407450

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087470.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 12:40
Operator : AR\AJ
Sample : INDB302
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:19:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 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



(12) 4,4'-DDE (B)

6.200min 39.392 ng/ml m

response 138741592

(12) 4,4'-DDE #2 (B)

5.381min 39.283 ng/ml

response 643407450

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG NO.: Q1124

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No. (PEM): PEM - PD087394.D Date Analyzed: 01/16/2025

Lab Sample No.(PEM): PEM041 Time Analyzed: 09:49

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	4.005	3.950	4.060	9.640	10.000	-3.6
beta-BHC	4.520	4.470	4.570	9.990	10.000	-0.1
gamma-BHC (Lindane)	4.336	4.290	4.390	9.840	10.000	-1.6
Endrin	6.582	6.510	6.650	46.240	50.000	-7.5
4,4'-DDT	7.029	6.960	7.100	103.780	100.000	3.8
Methoxychlor	7.501	7.430	7.570	246.580	250.000	-1.4
TCX	3.555	3.500	3.610	20.680	20.000	3.4
DCB	9.085	8.980	9.190	20.840	20.000	4.2

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No. (PEM): PEM - PD087394.D Date Analyzed: 01/16/2025

Lab Sample No.(PEM): PEM041 Time Analyzed: 09:49

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	3.396	3.350	3.450	10.550	10.000	5.5
beta-BHC	4.029	3.980	4.080	10.340	10.000	3.4
gamma-BHC (Lindane)	3.733	3.680	3.780	10.330	10.000	3.3
Endrin	5.797	5.730	5.870	45.610	50.000	-8.8
4,4'-DDT	6.192	6.120	6.260	94.930	100.000	-5.1
Methoxychlor	6.764	6.690	6.830	239.380	250.000	-4.2
TCX	2.882	2.830	2.930	20.690	20.000	3.5
DCB	8.084	7.980	8.180	21.320	20.000	6.6

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG NO.: Q1124

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No. (PEM): PEM - PD087411.D Date Analyzed: 01/16/2025

Lab Sample No.(PEM): PEM042 Time Analyzed: 14:05

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
alpha-BHC	4.009	3.960	4.060	9.970	10.000	-0.3
beta-BHC	4.524	4.470	4.570	10.220	10.000	2.2
gamma-BHC (Lindane)	4.340	4.290	4.390	10.170	10.000	1.7
Endrin	6.586	6.520	6.660	47.750	50.000	-4.5
4,4'-DDT	7.033	6.960	7.100	107.260	100.000	7.3
Methoxychlor	7.506	7.440	7.580	254.190	250.000	1.7
TCX	3.558	3.510	3.610	21.090	20.000	5.5
DCB	9.090	8.990	9.190	21.690	20.000	8.5

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No. (PEM): PEM - PD087411.D Date Analyzed: 01/16/2025

Lab Sample No.(PEM): PEM042 Time Analyzed: 14:05

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
alpha-BHC	3.396	3.350	3.450	10.950	10.000	9.5
beta-BHC	4.029	3.980	4.080	10.740	10.000	7.4
gamma-BHC (Lindane)	3.733	3.680	3.780	10.740	10.000	7.4
Endrin	5.798	5.730	5.870	47.510	50.000	-5.0
4,4'-DDT	6.193	6.120	6.260	99.380	100.000	-0.6
Methoxychlor	6.765	6.690	6.840	252.220	250.000	0.9
TCX	2.883	2.830	2.930	21.360	20.000	6.8
DCB	8.086	7.990	8.190	22.310	20.000	11.6

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG NO.: Q1124

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No. (PEM): PEM - PD087464.D Date Analyzed: 01/21/2025

Lab Sample No.(PEM): PEM047 Time Analyzed: 10:04

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	4.008	3.960	4.060	10.050	10.000	0.5
beta-BHC	4.523	4.470	4.570	10.390	10.000	3.9
gamma-BHC (Lindane)	4.339	4.290	4.390	10.250	10.000	2.5
Endrin	6.584	6.510	6.650	46.390	50.000	-7.2
4,4'-DDT	7.031	6.960	7.100	107.020	100.000	7.0
Methoxychlor	7.502	7.430	7.570	255.720	250.000	2.3
TCX	3.558	3.510	3.610	21.580	20.000	7.9
DCB	9.085	8.980	9.190	21.950	20.000	9.8

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/16/2025 01/16/2025

Client Sample No. (PEM): PEM - PD087464.D Date Analyzed: 01/21/2025

Lab Sample No.(PEM): PEM047 Time Analyzed: 10:04

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	3.394	3.340	3.440	10.720	10.000	7.2
beta-BHC	4.027	3.980	4.080	10.620	10.000	6.2
gamma-BHC (Lindane)	3.731	3.680	3.780	10.620	10.000	6.2
Endrin	5.794	5.720	5.860	45.550	50.000	-8.9
4,4'-DDT	6.189	6.120	6.260	94.480	100.000	-5.5
Methoxychlor	6.761	6.690	6.830	229.560	250.000	-8.2
TCX	2.881	2.830	2.930	21.220	20.000	6.1
DCB	8.080	7.980	8.180	21.860	20.000	9.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
 Data File : PD087464.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Jan 2025 10:04
 Operator : AR\AJ
 Sample : PEM047
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEM036

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 22 03:17:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
 Quant Title : GC Extractables
 QLast Update : Thu Jan 16 13:39:07 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

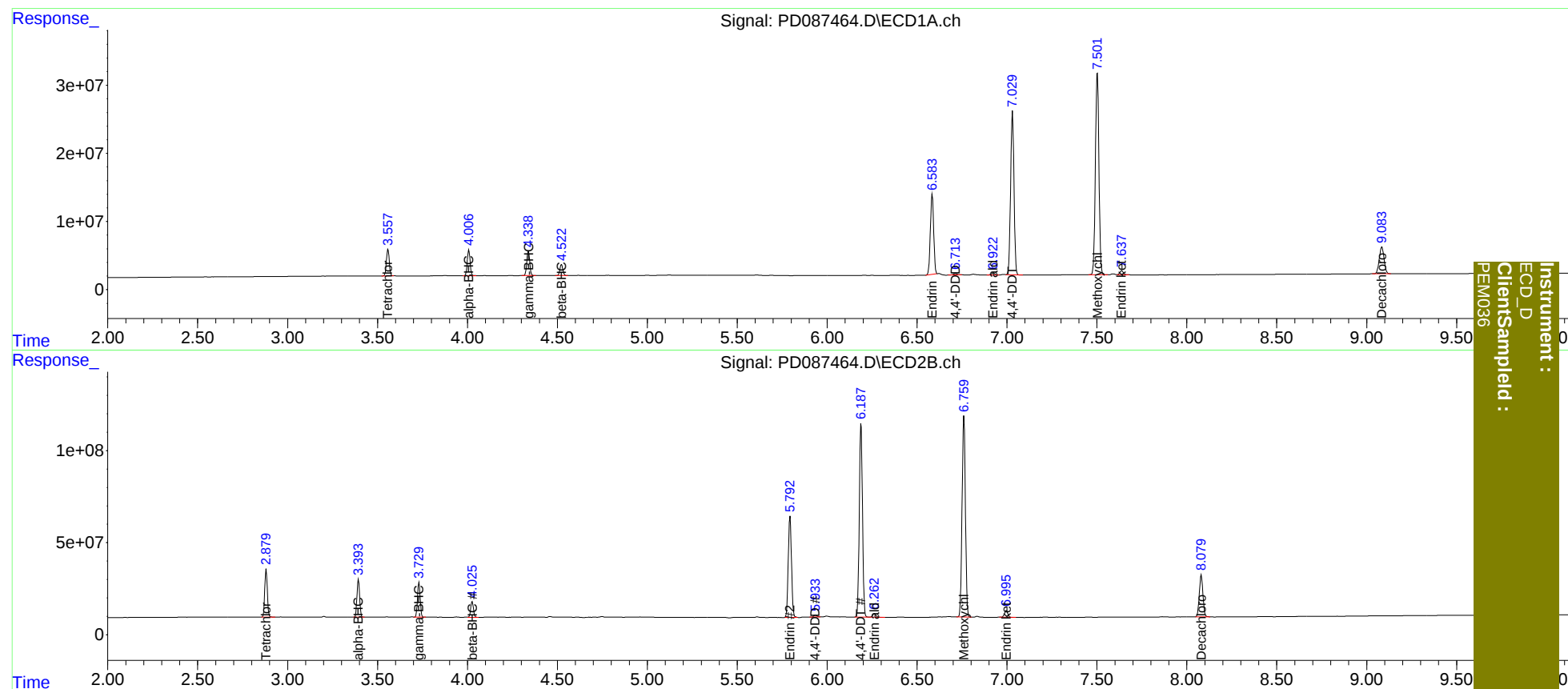
System Monitoring Compounds							
1)	SA Tetrachlo...	3.558	2.881	43984022	262.4E6	21.582	21.218
2)	SA Decachlor...	9.085	8.080	73391666	316.6E6	21.952	21.857
Target Compounds							
2)	A alpha-BHC	4.008	3.394	41752910	212.2E6	10.050	10.717
3)	MA gamma-BHC...	4.339	3.731	41215785	194.5E6	10.246	10.616
6)	B beta-BHC	4.523	4.027	18664341	90592553	10.392	10.620
14)	MA Endrin	6.584	5.794	150.6E6	680.6E6	46.393	45.550
16)	A 4,4'-DDD	6.714	5.935	2702576	12833580	0.983	0.960
17)	MA 4,4'-DDT	7.031	6.189	310.2E6	1302.0E6	107.019	94.479
18)	B Endrin al...	6.923	6.263	3886193	24024415	1.542	2.084 #
20)	A Methoxychlor	7.502	6.761	405.1E6	1413.9E6	255.717	229.556
21)	B Endrin ke...	7.638	6.996	7800558	46650954	2.266	2.937 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087464.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 10:04
Operator : AR\AJ
Sample : PEM047
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Instrument :
ECD_D
ClientSampled :
PEM036

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: Q1124

Project: Weekly Storage Blanks

Instrument ID: ECD_D

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 01/16/2025 01/16/2025

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	DCB RT #	TCX RT #
RESC011	RESC056	01/16/2025	09:35	PD087393.D	9.09	3.56
PEM030	PEM041	01/16/2025	09:49	PD087394.D	9.09	3.56
PIBLK455	PIBLK092	01/16/2025	13:35	PD087410.D	9.09	3.56
PEM031	PEM042	01/16/2025	14:05	PD087411.D	9.09	3.56
PIBLK461	PIBLK098	01/21/2025	09:08	PD087463.D	9.08	3.55
PEM036	PEM047	01/21/2025	10:04	PD087464.D	9.09	3.56
PEST-GPC2-BLANK	Q1124-11	01/21/2025	10:47	PD087465.D	0.00	0.00
PEST-GPC2-BLANK-SPIKE	Q1124-12	01/21/2025	11:01	PD087466.D	0.00	0.00
PIBLK462	PIBLK099	01/21/2025	12:12	PD087468.D	9.09	3.56
CCAL01	INDA302	01/21/2025	12:26	PD087469.D	9.08	3.56
CCAL01	INDB302	01/21/2025	12:40	PD087470.D	9.08	3.55

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: Q1124

Project: Weekly Storage Blanks

Instrument ID: ECD_D

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 01/16/2025 01/16/2025

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	DCB RT #	TCX RT #
RESC011	RESC056	01/16/2025	09:35	PD087393.D	8.08	2.88
PEM030	PEM041	01/16/2025	09:49	PD087394.D	8.08	2.88
PIBLK455	PIBLK092	01/16/2025	13:35	PD087410.D	8.09	2.88
PEM031	PEM042	01/16/2025	14:05	PD087411.D	8.09	2.88
PIBLK461	PIBLK098	01/21/2025	09:08	PD087463.D	8.08	2.88
PEM036	PEM047	01/21/2025	10:04	PD087464.D	8.08	2.88
PEST-GPC2-BLANK	Q1124-11	01/21/2025	10:47	PD087465.D	0.00	0.00
PEST-GPC2-BLANK-SPIKE	Q1124-12	01/21/2025	11:01	PD087466.D	0.00	0.00
PIBLK462	PIBLK099	01/21/2025	12:12	PD087468.D	8.08	2.88
CCAL01	INDA302	01/21/2025	12:26	PD087469.D	8.08	2.88
CCAL01	INDB302	01/21/2025	12:40	PD087470.D	8.08	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PEST-GPC2-BLANK-SPIKE

Contract: CHEM02

Lab Code: CHEM Case No.: Q1124

SAS No.: Q1124 SDG NO.: Q1124

Lab Sample ID: Q1124-12

Date(s) Analyzed: 01/21/2025 01/21/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1 ID: 0.32 (mm)

GC Column: (2): ZB-MR2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.03	6.98	7.08	39.0	2.5
	2	6.19	6.14	6.24	40.0	
Aldrin	1	5.28	5.23	5.33	19.0	2.5
	2	4.37	4.32	4.42	20.0	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	19.0	2.8
	2	3.73	3.68	3.78	20.0	
Heptachlor	1	4.94	4.89	4.99	19.0	0.5
	2	4.09	4.04	4.14	19.0	
Dieldrin	1	6.35	6.30	6.40	38.0	1.3
	2	5.52	5.47	5.57	39.0	
Endrin	1	6.58	6.53	6.63	37.0	3
	2	5.79	5.74	5.84	38.0	



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/21/25
Project:	Weekly Storage Blanks	Date Received:	01/21/25
Client Sample ID:	PIBLK-PD087463.D	SDG No.:	Q1124
Lab Sample ID:	I.BLK-PD087463.D	Matrix:	WATER
Analytical Method:	SFAM_PEST	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087463.D	1		01/21/25	pd012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0055	U	0.0055	0.050	ug/L
319-85-7	beta-BHC	0.0054	U	0.0054	0.050	ug/L
319-86-8	delta-BHC	0.0099	U	0.0099	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0059	U	0.0059	0.050	ug/L
76-44-8	Heptachlor	0.0053	U	0.0053	0.050	ug/L
309-00-2	Aldrin	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0053	U	0.0053	0.050	ug/L
959-98-8	Endosulfan I	0.0058	U	0.0058	0.050	ug/L
60-57-1	Dieldrin	0.0056	U	0.0056	0.10	ug/L
72-55-9	4,4-DDE	0.0061	U	0.0061	0.10	ug/L
72-20-8	Endrin	0.0066	U	0.0066	0.10	ug/L
33213-65-9	Endosulfan II	0.0069	U	0.0069	0.10	ug/L
72-54-8	4,4-DDD	0.0072	U	0.0072	0.10	ug/L
1031-07-8	Endosulfan Sulfate	0.0060	U	0.0060	0.10	ug/L
50-29-3	4,4-DDT	0.0057	U	0.0057	0.10	ug/L
72-43-5	Methoxychlor	0.0069	U	0.0069	0.50	ug/L
53494-70-5	Endrin ketone	0.0061	U	0.0061	0.10	ug/L
7421-93-4	Endrin Aldehyde	0.0064	U	0.0064	0.10	ug/L
5103-71-9	cis-Chlordane	0.0059	U	0.0059	0.050	ug/L
5103-74-2	trans-Chlordane	0.0054	U	0.0054	0.050	ug/L
8001-35-2	Toxaphene	0.23	U	0.23	5.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0.22		30 - 150	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	0.33		30 - 150	82%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/21/25
Project:	Weekly Storage Blanks	Date Received:	01/21/25
Client Sample ID:	PIBLK-PD087463.D	SDG No.:	Q1124
Lab Sample ID:	I.BLK-PD087463.D	Matrix:	WATER
Analytical Method:	SFAM_PEST	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087463.D	1		01/21/25	pd012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_D\Data\PD012125\
Data File : PD087463.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 09:08
Operator : AR\AJ
Sample : PIBLK098
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PIBLK461

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 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						
1) SA Tetrachlo...	3.554	2.881	46160572	274.2E6	22.650	22.172
27) SA Decachlor...	9.079	8.079	111.8E6	473.3E6	33.427	32.678

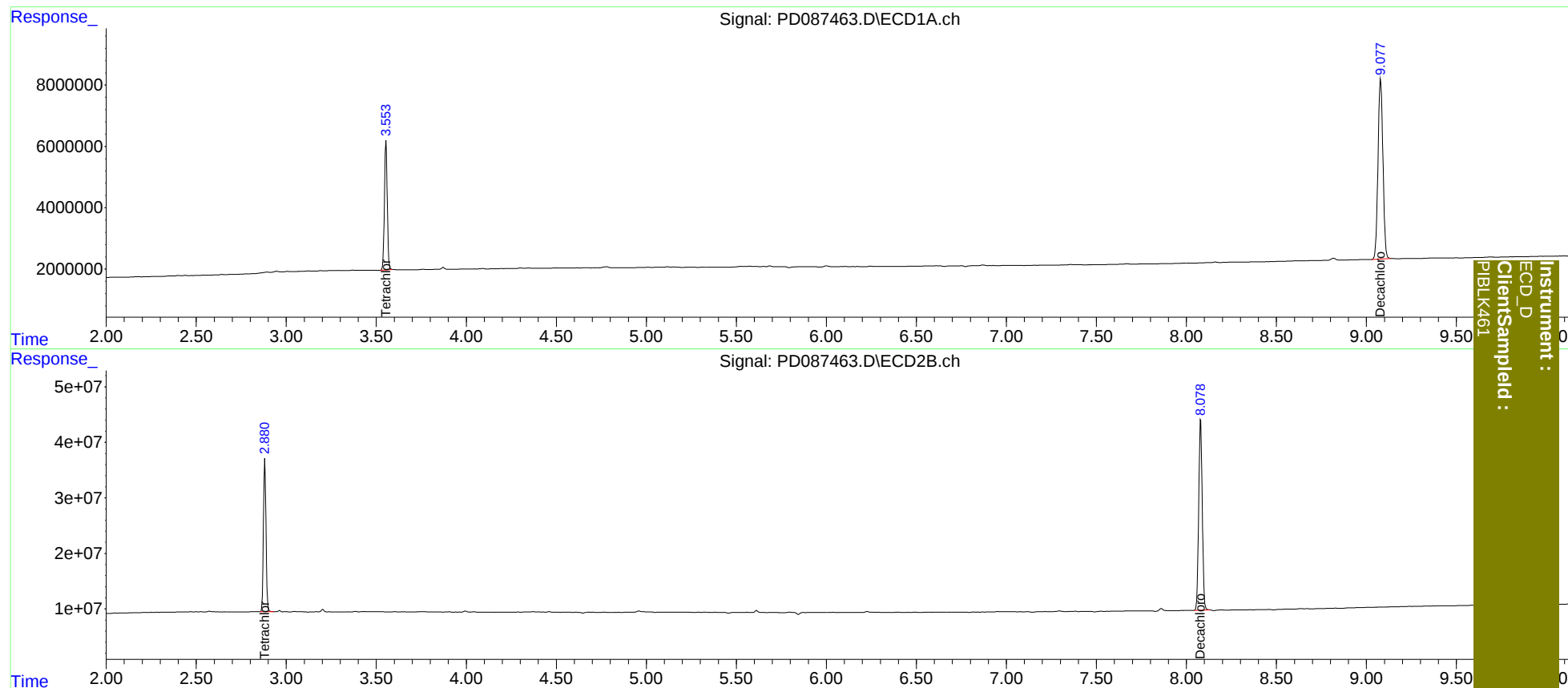
Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087463.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 09:08
Operator : AR\AJ
Sample : PIBLK098
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:17:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/21/25
Project:	Weekly Storage Blanks	Date Received:	01/21/25
Client Sample ID:	PIBLK-PD087468.D	SDG No.:	Q1124
Lab Sample ID:	I.BLK-PD087468.D	Matrix:	WATER
Analytical Method:	SFAM_PEST	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087468.D	1		01/21/25	pd012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0055	U	0.0055	0.050	ug/L
319-85-7	beta-BHC	0.0054	U	0.0054	0.050	ug/L
319-86-8	delta-BHC	0.0099	U	0.0099	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0059	U	0.0059	0.050	ug/L
76-44-8	Heptachlor	0.0053	U	0.0053	0.050	ug/L
309-00-2	Aldrin	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0053	U	0.0053	0.050	ug/L
959-98-8	Endosulfan I	0.0058	U	0.0058	0.050	ug/L
60-57-1	Dieldrin	0.0056	U	0.0056	0.10	ug/L
72-55-9	4,4-DDE	0.0061	U	0.0061	0.10	ug/L
72-20-8	Endrin	0.0066	U	0.0066	0.10	ug/L
33213-65-9	Endosulfan II	0.0069	U	0.0069	0.10	ug/L
72-54-8	4,4-DDD	0.0072	U	0.0072	0.10	ug/L
1031-07-8	Endosulfan Sulfate	0.0060	U	0.0060	0.10	ug/L
50-29-3	4,4-DDT	0.0057	U	0.0057	0.10	ug/L
72-43-5	Methoxychlor	0.0069	U	0.0069	0.50	ug/L
53494-70-5	Endrin ketone	0.0061	U	0.0061	0.10	ug/L
7421-93-4	Endrin Aldehyde	0.0064	U	0.0064	0.10	ug/L
5103-71-9	cis-Chlordane	0.0059	U	0.0059	0.050	ug/L
5103-74-2	trans-Chlordane	0.0054	U	0.0054	0.050	ug/L
8001-35-2	Toxaphene	0.23	U	0.23	5.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0.23		30 - 150	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	0.33		30 - 150	84%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/21/25
Project:	Weekly Storage Blanks	Date Received:	01/21/25
Client Sample ID:	PIBLK-PD087468.D	SDG No.:	Q1124
Lab Sample ID:	I.BLK-PD087468.D	Matrix:	WATER
Analytical Method:	SFAM_PEST	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087468.D	1		01/21/25	pd012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_D\Data\PD012125\
 Data File : PD087468.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Jan 2025 12:12
 Operator : AR\AJ
 Sample : PIBLK099
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PIBLK462

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 22 03:18:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
 Quant Title : GC Extractables
 QLast Update : Thu Jan 16 13:39:07 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						
1) SA Tetrachlo...	3.558	2.882	46457454	279.8E6	22.796	22.621
27) SA Decachlor...	9.085	8.081	113.4E6	483.8E6	33.925	33.402

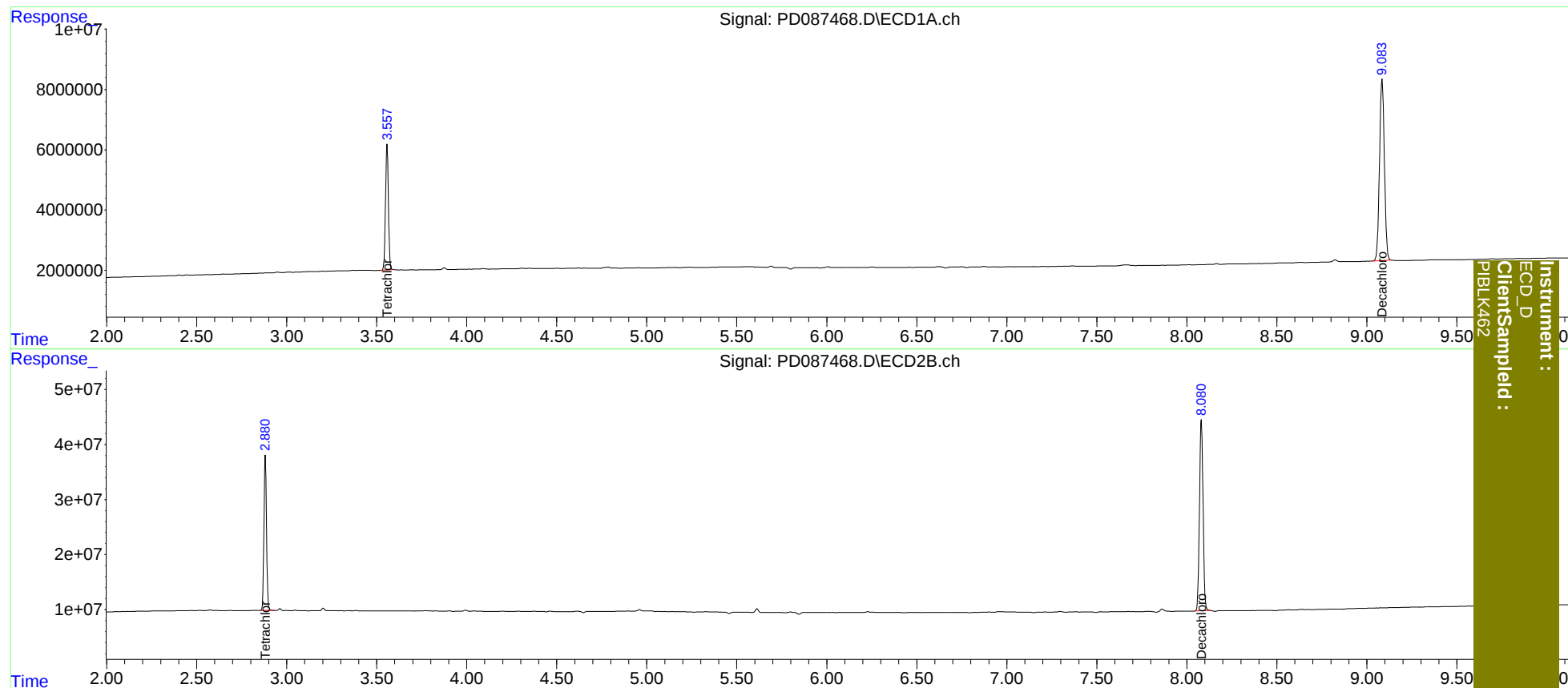
Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD012125\
Data File : PD087468.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2025 12:12
Operator : AR\AJ
Sample : PIBLK099
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 22 03:18:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD011625CLP.M
Quant Title : GC Extractables
QLast Update : Thu Jan 16 13:39:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Manual Integration Report

Sequence:	PD011625	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
TOXAPH101	PD087395.D	Decachlorobiphenyl #2	Abdul	1/17/2025 8:00:51 AM	Ankita	1/17/2025 8:44:40	Peak Integrated by Software
TOXAPH101	PD087395.D	Toxaphene-4 #2	Abdul	1/17/2025 8:00:51 AM	Ankita	1/17/2025 8:44:40	Peak Integrated by Software
PEM042	PD087411.D	4,4"-DDD	Abdul	1/17/2025 8:00:55 AM	Ankita	1/17/2025 8:44:41	Peak Integrated by Software
PEM042	PD087411.D	4,4"-DDD #2	Abdul	1/17/2025 8:00:55 AM	Ankita	1/17/2025 8:44:41	Peak Integrated by Software



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

Manual Integration Report

Sequence:	pd012125	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1124-12	PD087466.D	Endrin #2	Abdul	1/22/2025 8:18:40 AM	Ankita	1/22/2025 8:30:55	Peak Integrated by Software

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD011625

Review By	Abdul	Review On	1/17/2025 8:01:10 AM
Supervise By	Ankita	Supervise On	1/17/2025 8:44:47 AM
SubDirectory	PD011625	HP Acquire Method	HP Processing Method pd011625clp
STD. NAME	STD REF.#		
Tune/Reschk	PP23732,PP23975		
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720		
CCC	PP23716,PP23722,PP23729		
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD087392.D	16 Jan 2025 09:21	AR\AJ	Ok
2	RESC056	PD087393.D	16 Jan 2025 09:35	AR\AJ	Ok
3	PEM041	PD087394.D	16 Jan 2025 09:49	AR\AJ	Ok
4	TOXAPH101	PD087395.D	16 Jan 2025 10:03	AR\AJ	Ok,M
5	TOXAPH201	PD087396.D	16 Jan 2025 10:17	AR\AJ	Ok
6	TOXAPH301	PD087397.D	16 Jan 2025 10:31	AR\AJ	Ok
7	TOXAPH401	PD087398.D	16 Jan 2025 10:45	AR\AJ	Ok
8	TOXAPH501	PD087399.D	16 Jan 2025 10:59	AR\AJ	Ok
9	INDA101	PD087400.D	16 Jan 2025 11:14	AR\AJ	Ok
10	INDB101	PD087401.D	16 Jan 2025 11:28	AR\AJ	Ok
11	INDA201	PD087402.D	16 Jan 2025 11:42	AR\AJ	Ok
12	INDB201	PD087403.D	16 Jan 2025 11:56	AR\AJ	Ok
13	INDA301	PD087404.D	16 Jan 2025 12:10	AR\AJ	Ok
14	INDB301	PD087405.D	16 Jan 2025 12:24	AR\AJ	Ok
15	INDA401	PD087406.D	16 Jan 2025 12:38	AR\AJ	Ok
16	INDB401	PD087407.D	16 Jan 2025 12:52	AR\AJ	Ok
17	INDA501	PD087408.D	16 Jan 2025 13:06	AR\AJ	Ok
18	INDB501	PD087409.D	16 Jan 2025 13:21	AR\AJ	Ok
19	PIBLK092	PD087410.D	16 Jan 2025 13:35	AR\AJ	Ok
20	PEM042	PD087411.D	16 Jan 2025 14:05	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD012125

Review By	Abdul	Review On	1/22/2025 8:18:54 AM
Supervise By	Ankita	Supervise On	1/22/2025 8:31:02 AM
SubDirectory	PD012125	HP Acquire Method	HP Processing Method pd011625clp
STD. NAME	STD REF.#		
Tune/Reschk	PP23732,PP23975		
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720		
CCC	PP23716,PP23722,PP23729		
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD087462.D	21 Jan 2025 08:54	AR\AJ	Ok
2	PIBLK098	PD087463.D	21 Jan 2025 09:08	AR\AJ	Ok
3	PEM047	PD087464.D	21 Jan 2025 10:04	AR\AJ	Ok
4	Q1124-11	PD087465.D	21 Jan 2025 10:47	AR\AJ	Ok
5	Q1124-12	PD087466.D	21 Jan 2025 11:01	AR\AJ	Ok,M
6	PP24123 PEST/PCB SUR	PD087467.D	21 Jan 2025 11:46	AR\AJ	Ok
7	PIBLK099	PD087468.D	21 Jan 2025 12:12	AR\AJ	Ok
8	INDA302	PD087469.D	21 Jan 2025 12:26	AR\AJ	Ok
9	INDB302	PD087470.D	21 Jan 2025 12:40	AR\AJ	Ok,NR

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD011625

Review By	Abdul	Review On	1/17/2025 8:01:10 AM
Supervise By	Ankita	Supervise On	1/17/2025 8:44:47 AM
SubDirectory	PD011625	HP Acquire Method	HP Processing Method pd011625clp

STD. NAME	STD REF.#
Tune/Reschk	PP23732,PP23975
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720
CCC	PP23716,PP23722,PP23729
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD087392.D	16 Jan 2025 09:21		AR\AJ	Ok
2	RESC056	RESC011	PD087393.D	16 Jan 2025 09:35		AR\AJ	Ok
3	PEM041	PEM030	PD087394.D	16 Jan 2025 09:49		AR\AJ	Ok
4	TOXAPH101	TOXAPH1042	PD087395.D	16 Jan 2025 10:03		AR\AJ	Ok,M
5	TOXAPH201	TOXAPH2043	PD087396.D	16 Jan 2025 10:17		AR\AJ	Ok
6	TOXAPH301	TOXAPH3044	PD087397.D	16 Jan 2025 10:31		AR\AJ	Ok
7	TOXAPH401	TOXAPH4045	PD087398.D	16 Jan 2025 10:45		AR\AJ	Ok
8	TOXAPH501	TOXAPH5046	PD087399.D	16 Jan 2025 10:59		AR\AJ	Ok
9	INDA101	INDA1047	PD087400.D	16 Jan 2025 11:14		AR\AJ	Ok
10	INDB101	INDB1048	PD087401.D	16 Jan 2025 11:28		AR\AJ	Ok
11	INDA201	INDA2049	PD087402.D	16 Jan 2025 11:42		AR\AJ	Ok
12	INDB201	INDB2050	PD087403.D	16 Jan 2025 11:56		AR\AJ	Ok
13	INDA301	INDA3051	PD087404.D	16 Jan 2025 12:10		AR\AJ	Ok
14	INDB301	INDB3052	PD087405.D	16 Jan 2025 12:24		AR\AJ	Ok
15	INDA401	INDA4053	PD087406.D	16 Jan 2025 12:38		AR\AJ	Ok
16	INDB401	INDB4054	PD087407.D	16 Jan 2025 12:52		AR\AJ	Ok
17	INDA501	INDA5055	PD087408.D	16 Jan 2025 13:06		AR\AJ	Ok
18	INDB501	INDB5056	PD087409.D	16 Jan 2025 13:21		AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD011625

Review By	Abdul	Review On	1/17/2025 8:01:10 AM
Supervise By	Ankita	Supervise On	1/17/2025 8:44:47 AM
SubDirectory	PD011625	HP Acquire Method	HP Processing Method pd011625clp

STD. NAME	STD REF.#
Tune/Reschk	PP23732,PP23975
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720
CCC	PP23716,PP23722,PP23729
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PIBLK092	PIBLK455	PD087410.D	16 Jan 2025 13:35		AR\AJ	Ok
20	PEM042	PEM031	PD087411.D	16 Jan 2025 14:05		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD012125

Review By	Abdul	Review On	1/22/2025 8:18:54 AM
Supervise By	Ankita	Supervise On	1/22/2025 8:31:02 AM
SubDirectory	PD012125	HP Acquire Method	HP Processing Method pd011625clp

STD. NAME	STD REF.#
Tune/Reschk	PP23732,PP23975
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720
CCC	PP23716,PP23722,PP23729
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD087462.D	21 Jan 2025 08:54		AR\AJ	Ok
2	PIBLK098	PIBLK461	PD087463.D	21 Jan 2025 09:08		AR\AJ	Ok
3	PEM047	PEM036	PD087464.D	21 Jan 2025 10:04		AR\AJ	Ok
4	Q1124-11	PEST-GPC2-BLANK	PD087465.D	21 Jan 2025 10:47		AR\AJ	Ok
5	Q1124-12	PEST-GPC2-BLANK-S	PD087466.D	21 Jan 2025 11:01		AR\AJ	Ok,M
6	PP24123 PEST/PCB S	PP24123 PEST/PCB S	PD087467.D	21 Jan 2025 11:46		AR\AJ	Ok
7	PIBLK099	PIBLK462	PD087468.D	21 Jan 2025 12:12		AR\AJ	Ok
8	INDA302	INDA3207	PD087469.D	21 Jan 2025 12:26		AR\AJ	Ok
9	INDB302	INDB3208	PD087470.D	21 Jan 2025 12:40		AR\AJ	Ok,NR

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 01/17/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 01/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134327

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1123-01	BU-03-1172025	17	1.18	8.68	9.86	9.12	91.5	
Q1123-02	BU-03-1172025	18	1.15	8.72	9.87	8.88	88.6	
Q1124-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q1124-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q1124-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q1124-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1124-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1124-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1124-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1124-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1124-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1124-14	PCB-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1132-01	HD-1-011725	11	1.15	8.44	9.59	8.63	88.6	
Q1132-03	HD-1-011725-E2	12	1.19	8.55	9.74	8.51	85.6	
Q1132-04	HD-2-011725	13	1.15	8.81	9.96	8.81	86.9	
Q1132-06	HD-2-011725-E2	14	1.15	8.40	9.55	8.35	85.7	
Q1133-01	TR-04-1172025	19	1.19	8.53	9.72	8.98	91.3	
Q1133-02	TR-04-1172025-VOC	20	1.19	8.68	9.87	9.04	90.4	
Q1134-01	EO-1-011725	15	1.16	8.60	9.76	8.95	90.6	
Q1134-03	EO-1-011725-E2	16	1.12	8.65	9.77	8.83	89.1	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

134328

WorkList Name : %1-011725

WorkList ID : 186989

Department : Wet-Chemistry

Date : 01-17-2025 11:48:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1123-01	BU-03-1172025	Solid	Percent Solids	Cool 4 deg C	PSEG05	E11	01/17/2025	Chemtech -SO
Q1123-02	BU-03-1172025	Solid	Percent Solids	Cool 4 deg C	PSEG05	E11	01/17/2025	Chemtech -SO
Q1124-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1124-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	E11	01/17/2025	Chemtech -SO
Q1132-01	HD-1-011725	Solid	Percent Solids	Cool 4 deg C	PSEG03	E11	01/17/2025	Chemtech -SO
Q1132-03	HD-1-011725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	E11	01/17/2025	Chemtech -SO
Q1132-04	HD-2-011725	Solid	Percent Solids	Cool 4 deg C	PSEG03	E11	01/17/2025	Chemtech -SO
Q1132-06	HD-2-011725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	E11	01/17/2025	Chemtech -SO
Q1133-01	TR-04-1172025	Solid	Percent Solids	Cool 4 deg C	PSEG05	E11	01/17/2025	Chemtech -SO
Q1133-02	TR-04-1172025-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG05	E11	01/17/2025	Chemtech -SO
Q1134-01	EO-1-011725	Solid	Percent Solids	Cool 4 deg C	PSEG05	E11	01/17/2025	Chemtech -SO
Q1134-03	EO-1-011725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	E11	01/17/2025	Chemtech -SO

Date/Time 01-17-25 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 01-17-25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SOP ID: M3620C-Florisil cleanup-6, M3640A-GPC cleanup-6

Clean Up SOP #: GPC Cleanup, Florisil

Matrix : Solid

Weigh By: N/A

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: N/A

Filter By: N/A

pH Meter ID: N/A

Hood ID: 3,6,7

Extraction Start Date : 01/20/2025

Extraction Start Time : 10:26

Extraction End Date : 01/21/2025

Extraction End Time : 09:35

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standardized Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
GPC Pest Spike	10.0ML	20/40 PPB	PP24060
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2578
Baked Na2SO4	N/A	EP2580
Methylene Chloride	N/A	E3871
Hexane	N/A	E3868
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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:

No Extraction only GPC Check prepared.

KD Bath ID: WATER BATH-1

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/21/25	RP (Ext Lab)	Y.P. PestHPG3.
9:40	Preparation Group	Analysis Group

Analytical Method: M3620C-Florisil cleanup-6, M3640A-GPC cleanup-6

Concentration Date: 01/21/2025

Sample ID	Client Sample ID	Test	g / <u>ml</u>	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
Q1124-11	PEST-GPC2-BLANK	Pesticide-TCL	10.0	N/A	RUPESH	rajesh	5			
Q1124-12	PEST-GPC2-BLANK-SPIKE	Pesticide-TCL	10.0	N/A	RUPESH	rajesh	5			

* Extracts relinquished on the same date as received.

2. 1.125

WORKLIST(Hardcopy Internal Chain)

WorkList Name : q1124

WorkList ID : 187016

Department : Extraction

Date : 01-20-2025 10:24:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1124-10	SVOC-GPC2-BLANK	Solid	SVOC-Chemtech Full -25	Cool 4 deg C	CHEM02	E11	01/17/2025	SFAM_SVOC
Q1124-11	PEST-GPC2-BLANK	Solid	Pesticide-TCL	Cool 4 deg C	CHEM02	E11	01/17/2025	SFAM_PEST
Q1124-12	PEST-GPC2-BLANK-SPIKE	Solid	Pesticide-TCL	Cool 4 deg C	CHEM02	E11	01/17/2025	SFAM_PEST
Q1124-13	PCB-GPC2-BLANK	Solid	PCB	Cool 4 deg C	CHEM02	E11	01/17/2025	SFAM_PCB
Q1124-14	PCB-GPC2-BLANK-SPIKE	Solid	PCB	Cool 4 deg C	CHEM02	E11	01/17/2025	SFAM_PCB

Date/Time 01/20/25 10:24
 Raw Sample Received by: RS (Ext 104)
 Raw Sample Relinquished by: RS (Ext 104)

Date/Time 01/20/25 10:55
 Raw Sample Received by: AS
 Raw Sample Relinquished by: RS (Ext 104)

Prep Standard - Chemical Standard Summary

Order ID : Q1124

Test : Pesticide-TCL

Prepbatch ID : PB166141,

Sequence ID/Qc Batch ID: pd012125,

Standard ID :

EP2578,EP2580,PP23713,PP23714,PP23715,PP23716,PP23717,PP23718,PP23719,PP23720,PP23721,PP23722,PP
23723,PP23724,PP23725,PP23726,PP23727,PP23728,PP23729,PP23730,PP23731,PP23732,PP23975,PP24060,

Chemical ID :

E3551,E3788,E3805,E3806,E3826,E3829,E3846,E3848,E3868,E3871,P 11763,P11797,P11945,P13191,P13360,P1338
3,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3921	CS6 IND STD MIX A	PP23713	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P11945 + 49.00000ml of E3805 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
679	CS5 IND STD MIX A	PP23714	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23713 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
680	CS4 IND STD MIX A	PP23715	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23714 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
681	CS3 IND STD MIX A	PP23716	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23715 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
682	CS2 IND STD MIX A	PP23717	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23716 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
683	CS1 IND STD MIX A	PP23718	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23717 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3920	CS6 IND STD MIX B	PP23719	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P11763 + 49.00000ml of E3805 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
684	CS5 IND STD MIX B	PP23720	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23719 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
685	CS4 IND STD MIX B	PP23721	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23720 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
686	CS3 IND STD MIX B	PP23722	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23721 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
687	CS2 IND STD MIX B	PP23723	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23722 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
688	CS1 IND STD MIX B	PP23724	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23723 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
70	10/20 PPM Pest/PCB SOM01.2 Surg Stock	PP23725	10/02/2024	04/01/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P13383 + 9.00000ml of E3788 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3922	Toxaphene CS6	PP23726	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.80000ml of P13360 + 48.40000ml of E3805 + 0.80000ml of PP23725 = Final Quantity: 50.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
674	Toxaphene CS5	PP23727	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23726 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
675	Toxaphene CS4	PP23728	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23727 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
676	Toxaphene CS3	PP23729	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23727 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
677	Toxaphene CS2	PP23730	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23729 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
678	Toxaphene CS1	PP23731	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23730 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
776	EPA S0M01.2 RESCHK	PP23732	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of PP23716 + 0.50000ml of PP23722 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
758	PEM Mix w/Surr	PP23975	11/14/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/18/2024

FROM 1.00000ml of P11797 + 99.00000ml of E3826 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3793	20/40 PPB PEST GPC spike solution	PP24060	11/25/2024	05/18/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.08000ml of P13191 + 99.92000ml of E3829 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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)	24C1862008	03/30/2025	09/30/2024 / Rajesh	09/25/2024 / Rajesh	E3805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	03/25/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3806

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24J0862003	05/18/2025	11/18/2024 / Rajesh	11/04/2024 / Rajesh	E3829

CHEMICAL RECEIPT LOG BOOK

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	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

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	07/17/2025	01/17/2025 / Rajesh	01/02/2025 / Rajesh	E3868

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32004 / Pesticide Mix, CLP method, Standard Mix B 3/90 SOW, Hexane, 1mL/ampul	A0176477	04/02/2025	10/02/2024 / Abdul	05/27/2022 / Sohil	P11763

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32074 / Pesticide Performance Evaluation Mix w/Surrogate	A0183168	05/14/2025	11/14/2024 / Ankita	05/27/2022 / Sohil	P11797

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32003 / Pesticide Mix, CLP method, Standard Mix A 3/90 SOW, Hexane, 1mL/ampul	A0176384	04/02/2025	10/02/2024 / Abdul	06/22/2022 / Abdul	P11945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32018 / Pesticide Matrix Spike Mix	A0203053	05/25/2025	11/25/2024 / Ankita	01/15/2024 / Abdul	P13191

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203830	04/02/2025	10/02/2024 / Abdul	05/03/2024 / Abdul	P13360

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32453 / SOM01.1 Pesticide Surrogate Standard	A0194530	04/02/2025	10/02/2024 / Abdul	12/06/2023 / Abdul	P13383



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

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

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

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
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	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 9/25/24

E 3805

Jamie Croak
Director Quality Operations, Bioscience Production

Cleanert Florisil

1g/6ml 30/pkg

固相萃取产品

LOT#: M06518

MFG#: F04074



Made in China

CAT# FS0006

 Agela Technologies

E 3806



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



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

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

E 3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

11/6/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantors[™]**

Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3829



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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

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

Rec'd by RP On 12/13/24

E 3846

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01 %

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

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

E 3848

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

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 ₈ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Rec'd by RP on 01/03/25

E3868

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

12/27/24

 **avantors**



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01%

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

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

E 3871

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



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

P11759 to P11763

Received by : SJ 5/27/2022



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. : 32004 **Lot No.:** A0176477

Description : Pesticide Standard Mix B (3/90)

Pesticide Standard Mix B (3/90) 8-16 µg/mL, Hexane/Toluene (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	8.0 µg/mL	+/- 0.1453 +/- 0.3910 +/- 0.5461	µg/mL Gravimetric Unstressed Stressed
2	beta-BHC CAS # 319-85-7 (Lot SL210106) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed
3	delta-BHC CAS # 319-86-8 (Lot 8-TAH-175-1) Purity 98%	8.0 µg/mL	+/- 0.1453 +/- 0.3910 +/- 0.5461	µg/mL Gravimetric Unstressed Stressed
4	Aldrin CAS # 309-00-2 (Lot 12044700) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed
5	Heptachlor epoxide (isomer B) CAS # 1024-57-3 (Lot 11129300) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed
6	trans-Chlordane CAS # 5103-74-2 (Lot 32095) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed
7	cis-Chlordane CAS # 5103-71-9 (Lot 31707) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed

8	4,4'-DDE			16.1	µg/mL	+/-	0.2906	µg/mL	Gravimetric
	CAS #	72-55-9	(Lot GHYQG)			+/-	0.7817	µg/mL	Unstressed
	Purity	99%				+/-	1.0918	µg/mL	Stressed
9	Endosulfan II			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	33213-65-9	(Lot 10861900)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
10	Endrin aldehyde			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	7421-93-4	(Lot 30606)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
11	Endosulfan sulfate			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	1031-07-8	(Lot BCCB0424)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
12	Endrin ketone			16.0	µg/mL	+/-	0.2895	µg/mL	Gravimetric
	CAS #	53494-70-5	(Lot 11058900)			+/-	0.7788	µg/mL	Unstressed
	Purity	98%				+/-	1.0877	µg/mL	Stressed
13	Decachlorobiphenyl (BZ# 209)			16.1	µg/mL	+/-	0.2906	µg/mL	Gravimetric
	CAS #	2051-24-3	(Lot 30679)			+/-	0.7817	µg/mL	Unstressed
	Purity	99%				+/-	1.0918	µg/mL	Stressed
Solvent: Hexane/Toluene (90:10)									
	CAS #	110-54-3/108-88-3							
	Purity	99%							

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

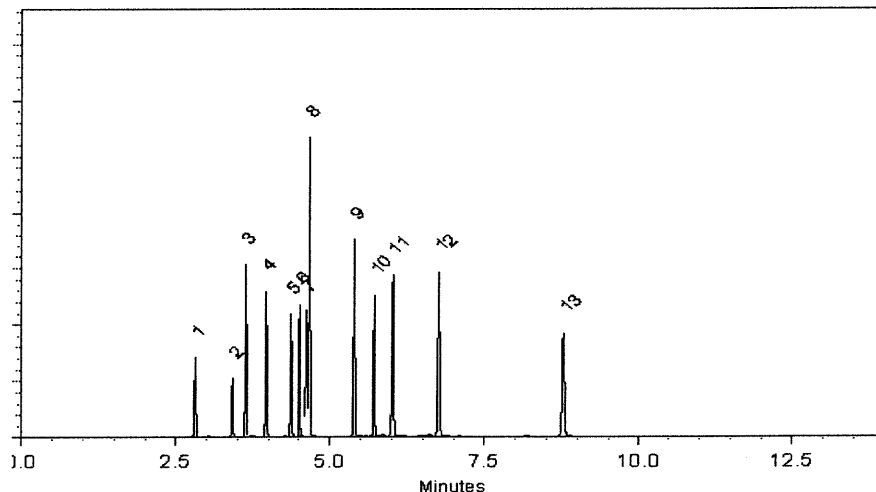
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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.

Aurelia B. Confer

Aurelia Confer - Operations Tech I

Date Mixed: 16-Sep-2021

Balance: B707717271

Amanda Miller

Amanda Miller - Operations Tech-ARM QC

Date Passed: 20-Sep-2021

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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
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www.restek.com

Certificate of Analysis

P11789 to P11793

Received by SJ 5/27/2022



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. : 32074 **Lot No.:** A0183168

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25µg/mL,
Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2026 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	2.0 µg/mL	+/- 0.1220 +/- 0.1523 +/- 0.1799	µg/mL Gravimetric Unstressed Stressed
2	alpha-BHC CAS # 319-84-6 (Lot 12469000) Purity 99%	1.0 µg/mL	+/- 0.0610 +/- 0.0762 +/- 0.0900	µg/mL Gravimetric Unstressed Stressed
3	gamma-BHC (Lindane) CAS # 58-89-9 (Lot 12642100) Purity 99%	1.0 µg/mL	+/- 0.0610 +/- 0.0762 +/- 0.0900	µg/mL Gravimetric Unstressed Stressed
4	beta-BHC CAS # 319-85-7 (Lot BCCCC6425) Purity 99%	1.0 µg/mL	+/- 0.0610 +/- 0.0762 +/- 0.0900	µg/mL Gravimetric Unstressed Stressed
5	Endrin CAS # 72-20-8 (Lot 13000500) Purity 99%	5.1 µg/mL	+/- 0.3045 +/- 0.3805 +/- 0.4496	µg/mL Gravimetric Unstressed Stressed
6	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	10.1 µg/mL	+/- 0.6090 +/- 0.7609 +/- 0.8992	µg/mL Gravimetric Unstressed Stressed
7	Methoxychlor CAS # 72-43-5 (Lot 12555700) Purity 98%	25.2 µg/mL	+/- 1.5221 +/- 1.9018 +/- 2.2475	µg/mL Gravimetric Unstressed Stressed

8	Decachlorobiphenyl (BZ# 209)	2.0 µg/mL	+/- 0.1221	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot 30679)		+/- 0.1524	µg/mL	Unstressed
	Purity 99%		+/- 0.1800	µg/mL	Stressed

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

Column:
30m x .25mm x .2µm
Rtx-CLP II (cat.# 11323)

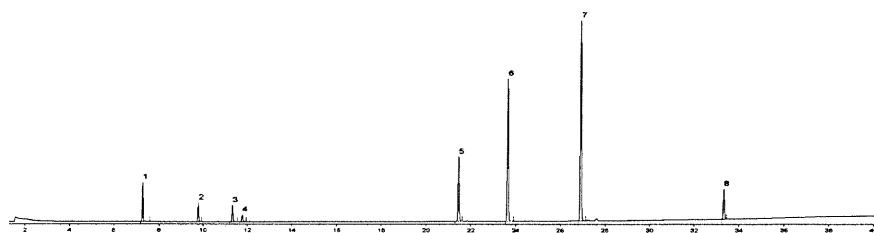
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

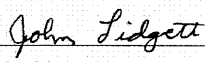
Det. Type:
ECD



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.


Brittany Federinko - Operations Tech I

Date Mixed: 22-Mar-2022 **Balance:** 1128360905


John Lidgett - AD Chemist

Date Passed: 24-Mar-2022

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/ μ ECD, 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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

P11794 to P11798

Received by SJ 5/27/2022



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. : 32074 **Lot No.:** A0183168

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2026 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	2.0 µg/mL	+/- 0.1220 µg/mL Gravimetric +/- 0.1523 µg/mL Unstressed +/- 0.1799 µg/mL Stressed
2	alpha-BHC CAS # 319-84-6 (Lot 12469000) Purity 99%	1.0 µg/mL	+/- 0.0610 µg/mL Gravimetric +/- 0.0762 µg/mL Unstressed +/- 0.0900 µg/mL Stressed
3	gamma-BHC (Lindane) CAS # 58-89-9 (Lot 12642100) Purity 99%	1.0 µg/mL	+/- 0.0610 µg/mL Gravimetric +/- 0.0762 µg/mL Unstressed +/- 0.0900 µg/mL Stressed
4	beta-BHC CAS # 319-85-7 (Lot BCCC6425) Purity 99%	1.0 µg/mL	+/- 0.0610 µg/mL Gravimetric +/- 0.0762 µg/mL Unstressed +/- 0.0900 µg/mL Stressed
5	Endrin CAS # 72-20-8 (Lot 13000500) Purity 99%	5.1 µg/mL	+/- 0.3045 µg/mL Gravimetric +/- 0.3805 µg/mL Unstressed +/- 0.4496 µg/mL Stressed
6	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	10.1 µg/mL	+/- 0.6090 µg/mL Gravimetric +/- 0.7609 µg/mL Unstressed +/- 0.8992 µg/mL Stressed
7	Methoxychlor CAS # 72-43-5 (Lot 12555700) Purity 98%	25.2 µg/mL	+/- 1.5221 µg/mL Gravimetric +/- 1.9018 µg/mL Unstressed +/- 2.2475 µg/mL Stressed

8	Decachlorobiphenyl (BZ# 209)	2.0 µg/mL	+/- 0.1221	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot 30679)		+/- 0.1524	µg/mL	Unstressed
	Purity 99%		+/- 0.1800	µg/mL	Stressed

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

Column:
 30m x .25mm x .2um
 Rtx-CLP II (cat.# 11323)

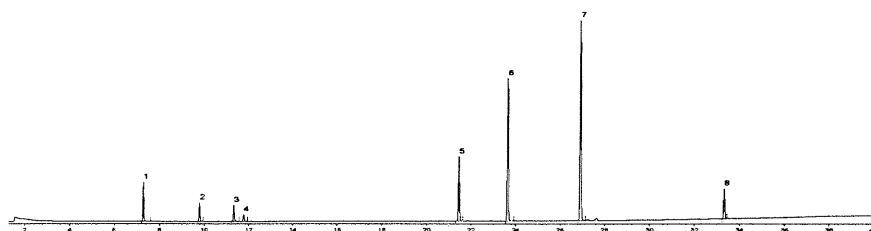
Carrier Gas:
 helium-constant pressure 20 psi.

Temp. Program:
 150°C to 300°C
 @ 4°C/min. (hold 5 min.)

Inj. Temp:
 200°C

Det. Temp:
 300°C

Det. Type:
 ECD



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.

Brittany Federinko
 Brittany Federinko - Operations Tech I

Date Mixed: 22-Mar-2022 **Balance:** 1128360905

John Lidgett
 John Lidgett - AD Chemist

Date Passed: 24-Mar-2022

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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32018 **Lot No.:** A0203053
Description : Pesticide Matrix Spike Mix
Pesticide Matrix Spike Mix 25-50 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 10°C or colder
Ship: Ambient

P13191
↓
P13194
9/15/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	gamma-BHC (Lindane)	58-89-9	14646400	99%	25.0 µg/mL	+/- 1.3149
2	Heptachlor	76-44-8	813251	99%	25.0 µg/mL	+/- 1.3149
3	Aldrin	309-00-2	14389400	98%	25.0 µg/mL	+/- 1.3164
4	Dieldrin	60-57-1	14515000	98%	50.0 µg/mL	+/- 2.6297
5	Endrin	72-20-8	14485300	98%	50.0 µg/mL	+/- 2.6286
6	4,4'-DDT	50-29-3	230410JLMA	98%	50.1 µg/mL	+/- 2.6317

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32005 **Lot No.:** A0203038

Description : Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	----%	1,009.0 µg/mL	+/- 55.9920

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

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

P 13358
↓
P 13369
(12)

✓
05-06-2024

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

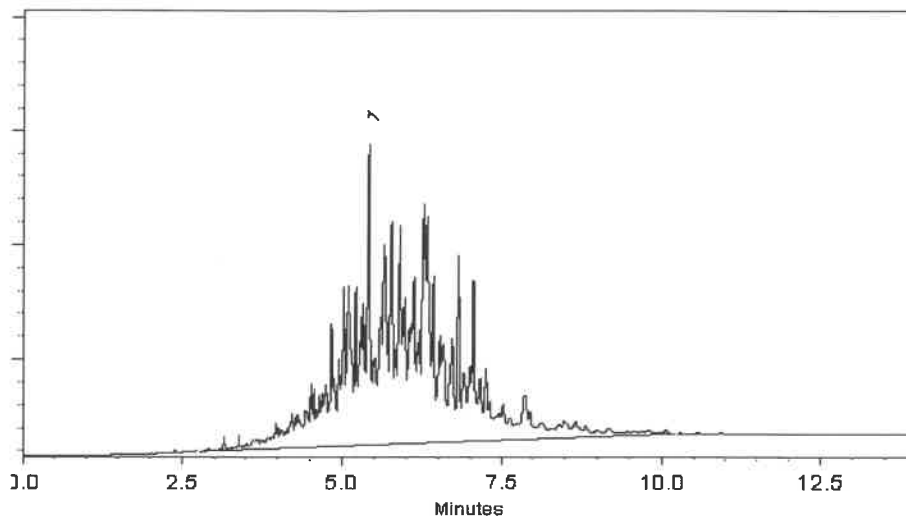
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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.


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

P13358 } (12)
↓
P13369
|


05-06-2024



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32453 **Lot No.:** A0194530

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2029 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	100.6 µg/mL	+/- 5.5961
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.3 µg/mL	+/- 11.1978

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%

P 13382 } (5)
↓
P 13386

[Signature]
05/01/2024

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:

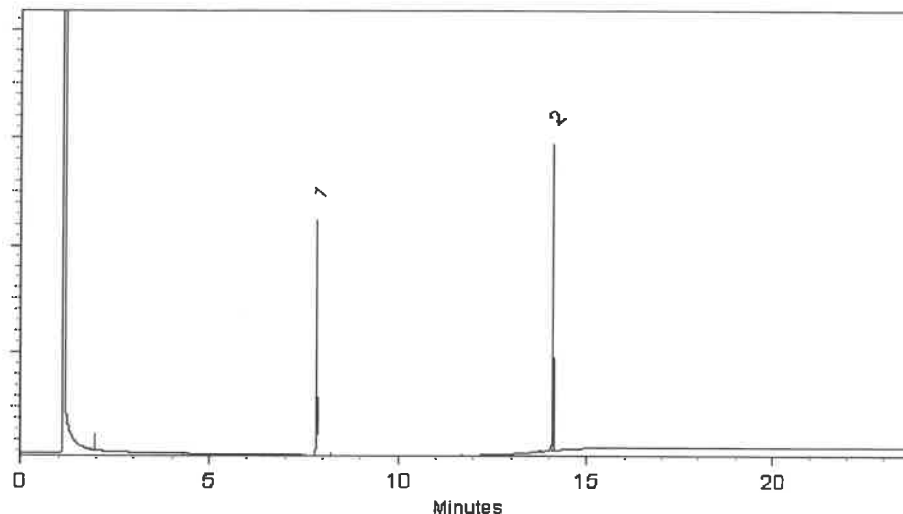
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

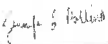


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Jess Hoy - Operations Tech I

Date Mixed: 09-Feb-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 15-Feb-2023

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

P13382 } (5)
↓
P13386 }


05/01/2024



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32003 **Lot No.:** A0176384

Description : Pesticide Standard Mix A (3/90)

Standard Mix A 3/90 SOW 8-80µg/mL, Hexane/Toluene (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

P 11945
↓
P 11946
②
06/24/2022

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	8.0 µg/mL	+/- 0.1442 +/- 0.3878 +/- 0.5417	µg/mL Gravimetric µg/mL Unstressed µg/mL Stressed
2	alpha-BHC CAS # 319-84-6 (Lot 3324600) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric µg/mL Unstressed µg/mL Stressed
3	gamma-BHC (Lindane) CAS # 58-89-9 (Lot 11837800) Purity 98%	8.0 µg/mL	+/- 0.1442 +/- 0.3878 +/- 0.5417	µg/mL Gravimetric µg/mL Unstressed µg/mL Stressed
4	Heptachlor CAS # 76-44-8 (Lot 0006617486) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric µg/mL Unstressed µg/mL Stressed
5	Endosulfan I CAS # 959-98-8 (Lot BCBS8631) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric µg/mL Unstressed µg/mL Stressed
6	Dieldrin CAS # 60-57-1 (Lot 12074700) Purity 97%	16.0 µg/mL	+/- 0.2889 +/- 0.7772 +/- 1.0854	µg/mL Gravimetric µg/mL Unstressed µg/mL Stressed
7	Endrin CAS # 72-20-8 (Lot 11773800) Purity 98%	16.0 µg/mL	+/- 0.2895 +/- 0.7788 +/- 1.0877	µg/mL Gravimetric µg/mL Unstressed µg/mL Stressed

8	4,4'-DDD			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	72-54-8	(Lot HAN02)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
9	4,4'-DDT			16.0	µg/mL	+/-	0.2895	µg/mL	Gravimetric
	CAS #	50-29-3	(Lot 210823JLM)			+/-	0.7788	µg/mL	Unstressed
	Purity	98%				+/-	1.0877	µg/mL	Stressed
10	Methoxychlor			80.0	µg/mL	+/-	1.4132	µg/mL	Gravimetric
	CAS #	72-43-5	(Lot 12325400)			+/-	3.8798	µg/mL	Unstressed
	Purity	97%				+/-	5.4271	µg/mL	Stressed
11	Decachlorobiphenyl (BZ# 209)			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	2051-24-3	(Lot 30638)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
Solvent: Hexane/Toluene (90:10)									
	CAS #	110-54-3/108-88-3							
	Purity	99%							

P 11945 } (2)
↓
P 11946 }

MR
06/24/2022

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

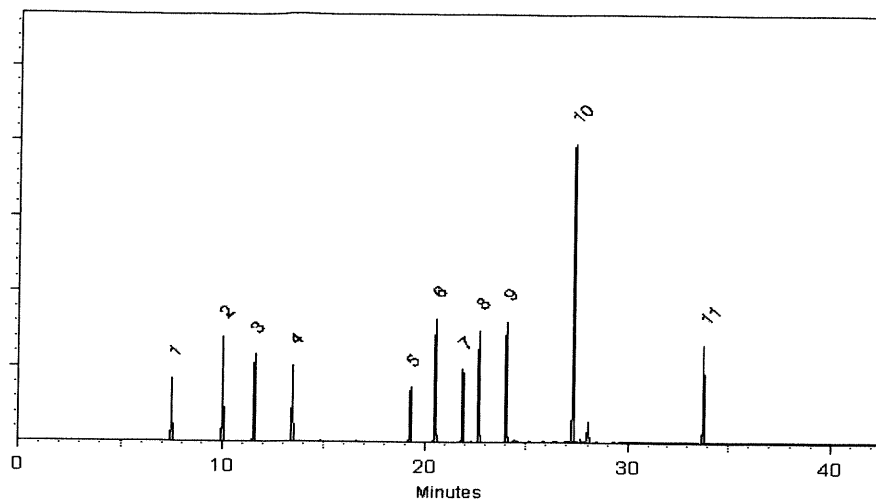
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

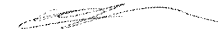
Inj. Temp:
200°C

Det. Temp:
300°C

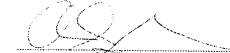
Det. Type:
ECD



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.


Erik Strommer - Operations Tech I

Date Mixed: 14-Sep-2021 Balance: 1128353505


Amanda Miller - Operations Tech-ARM QC

Date Passed: 17-Sep-2021

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

P11945
↓
P11946
②
06/24/2022

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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number

COC Number

#1
1124

CLIENT INFORMATION

PROJECT INFORMATION

BILLING INFORMATION

Report to be sent to:
COMPANY: Chemtech
ADDRESS: 284 Sheffield Street
CITY: Mountainside STATE NJ ZIP: 08816
ATTENTION: QA Officer
PHONE: (908) 789-8900 FAX: (908) 789-8922

PROJECT NAME: Weekly Storage Blanks
PROJECT #: LOCATION: NJ
PROJECT MANAGER:
E-MAIL:
PHONE: FAX:

BILL TO: Same
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE:

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

ANALYSIS

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ EDD FORMAT ☐ Other _____

1 VOC-GPC in 10 min
2 SVOC-GPC 45 min
3 Pesticides 10 min
4 PCB
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
			Comp	Env	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	Storage-Blank-SOTL-REF-6	AQ		X			2	X										
2.	Storage-Blank- WATER-REF-3	AQ		X			2	X										
3.	Storage-Blank- WATER-REF-4	AQ		X			2	X										
4.	Storage-Blank-SAMPLE-MANAGEMENT	AQ		X			2	X										
5.	SVOC-GPC-BLANK	SO		X			2	X										
6.	PEST-GPC-BLANK	SO		X			1		X									
7.	PEST-GPC-BLANK-SPIKE	SO		X			1			X								
8.	PCB-GPC-BLANK	SO		X			1			X								
9.	PCB-GPC-BLANK-SPIKE	SO		X			1				X							
10.	SVOC-GPC2-BLANK	SO		X			1				X							
				X			1		X									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW

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

RELINQUISHED BY SAMPLER
1. Sam
DATE/TIME: 10/17/25
RECEIVED BY:
RELINQUISHED BY:
DATE/TIME:
RECEIVED BY:
RELINQUISHED BY:
DATE/TIME:
RECEIVED FOR LAB BY:
3.

Conditions of bottles or coppers at receipt: COMPLAINT ☐ NON COMPLAINT ☐ COOLER TEMP: 6.0
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other:
CHEMTECH: ☐ Picked Up

Shipment Complete
☒ YES ☐ NO

10/2018

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH 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