

Cover Page

Order ID : Q1060

Project ID : Weekly Storage Blanks

Client : Chemtech Consulting Group

Lab Sample Number

Q1060-01
Q1060-02
Q1060-03
Q1060-04
Q1060-05
Q1060-06
Q1060-07
Q1060-08
Q1060-09
Q1060-10
Q1060-11
Q1060-12
Q1060-13
Q1060-14

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: 1/21/2025

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 #: Q1060

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: NILESH PRAJAPATI

Date: 01/21/2025

LAB CHRONICLE

OrderID:	Q1060	OrderDate:	1/10/2025 9:44:00 AM
Client:	Chemtech Consulting Group	Project:	Weekly Storage Blanks
Contact:	QA Officer	Location:	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1060-11	PEST-GPC2-BLANK	SOIL	Pesticide-TCL	SFAM_PEST	01/10/25	01/13/25	01/14/25	01/10/25
Q1060-12	PEST-GPC2-BLANK-SP IKE	SOIL	Pesticide-TCL	SFAM_PEST	01/10/25	01/13/25	01/14/25	01/10/25
Q1060-13	PCB-GPC2-BLANK	SOIL	PCB	SFAM_PCB	01/10/25	01/13/25	01/14/25	01/10/25
Q1060-14	PCB-GPC2-BLANK-SPI KE	SOIL	PCB	SFAM_PCB	01/10/25	01/13/25	01/14/25	01/10/25

Hit Summary Sheet
SW-846

SDG No.: Q1060

Order ID: Q1060

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								
Q1060-12	PEST-GPC2-BLANK· SOIL		gamma-BHC (Lindane)	19.0		0.48	5.10	ug/kg
Q1060-12	PEST-GPC2-BLANK· SOIL		Heptachlor	18.0		0.57	5.10	ug/kg
Q1060-12	PEST-GPC2-BLANK· SOIL		Aldrin	19.0		0.39	5.10	ug/kg
Q1060-12	PEST-GPC2-BLANK· SOIL		Dieldrin	39.0		0.45	9.90	ug/kg
Q1060-12	PEST-GPC2-BLANK· SOIL		Endrin	37.0		0.63	9.90	ug/kg
Q1060-12	PEST-GPC2-BLANK· SOIL		4,4-DDT	36.0		0.63	9.90	ug/kg
Total Concentration:				168.000				



QC SUMMARY

Surrogate Summary

SDG No.: Q1060

Client: Chemtech Consulting Group

Analytical Method: SFAM_PEST

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PD087221.D	PIBLK-PD087221.D	TCX	1	20	0.22	110		30	150
		DCB	1	40	0.24	60		30	150
		TCX	2	20	0.22	110		30	150
		DCB	2	40	0.24	60		30	150
I.BLK-PD087385.D	PIBLK-PD087385.D	TCX	1	20	0.23	113		30	150
		DCB	1	40	0.33	84		30	150
		TCX	2	20	0.24	122		30	150
		DCB	2	40	0.36	89		30	150
Q1060-11	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
Q1060-12	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-PD087389.D	PIBLK-PD087389.D	TCX	1	20	0.23	113		30	150
		DCB	1	40	0.34	85		30	150
		TCX	2	20	0.25	123		30	150
		DCB	2	40	0.36	90		30	150

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: Q1060

SAS No.: Q1060 SDG NO.: Q1060

Lab Sample ID: _____

Lab File ID: _____

Matrix: (soil/water) _____

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) _____

Date Extracted: _____

Date Analyzed (1): _____

Date Analyzed (2): _____

Time Analyzed (1): _____

Time Analyzed (2): _____

Instrument ID (1): _____

Instrument ID (2): _____

GC Column (1): _____ ID: _____ (mm)

GC Column (2): _____ ID: _____ (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/10/25
Project:	Weekly Storage Blanks	Date Received:	01/10/25
Client Sample ID:	PEST-GPC2-BLANK	SDG No.:	Q1060
Lab Sample ID:	Q1060-11	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
PD087387.D	1	01/13/25 10:38	01/14/25 10:53	PB166040

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:	01/10/25
Project:	Weekly Storage Blanks	Date Received:	01/10/25
Client Sample ID:	PEST-GPC2-BLANK	SDG No.:	Q1060
Lab Sample ID:	Q1060-11	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
PD087387.D	1	01/13/25 10:38	01/14/25 10:53	PB166040

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\PD011425\
Data File : PD087387.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 10:53
Operator : AR\AJ
Sample : Q1060-11
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 15 00:54:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

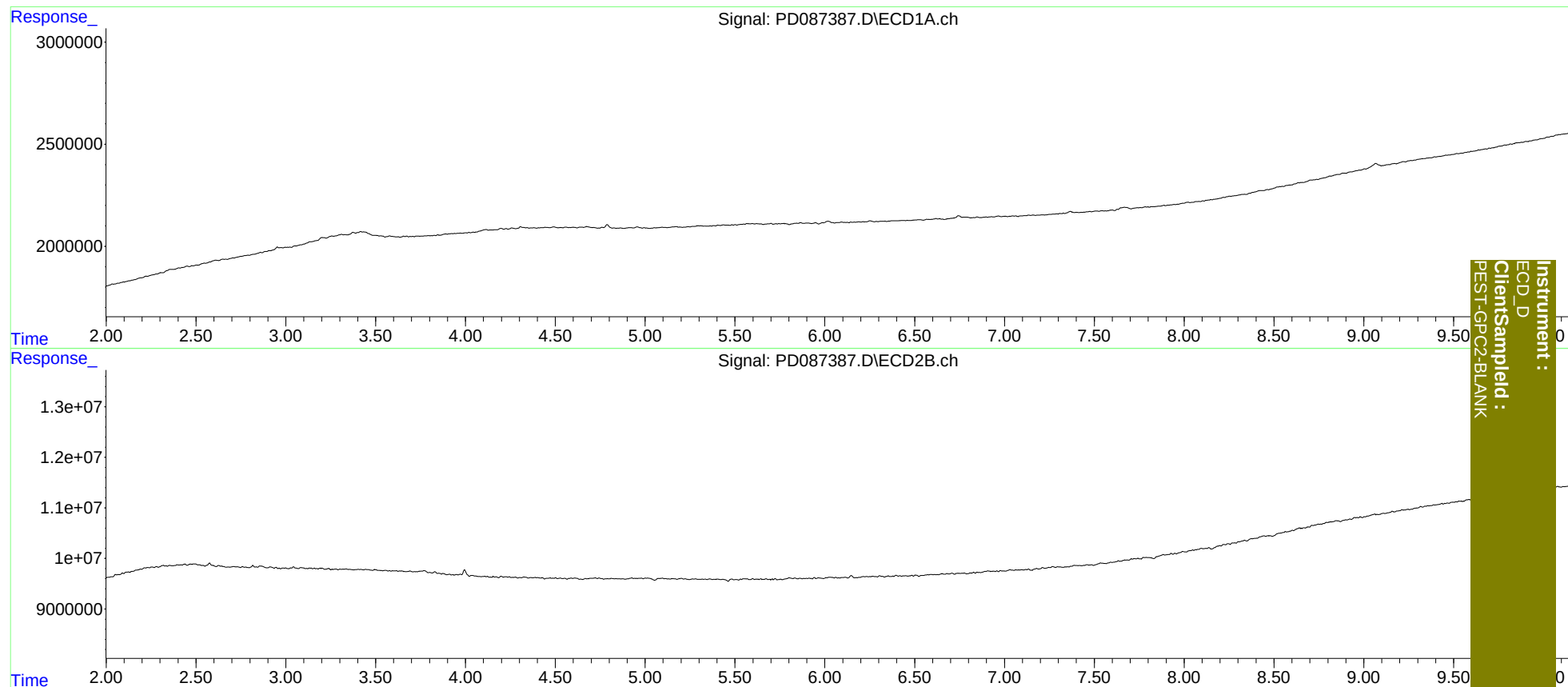
Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087387.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 10:53
Operator : AR\AJ
Sample : Q1060-11
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/10/25
Project:	Weekly Storage Blanks	Date Received:	01/10/25
Client Sample ID:	PEST-GPC2-BLANK-SPIKE	SDG No.:	Q1060
Lab Sample ID:	Q1060-12	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100 Decanted:
Sample Wt/Vol:	10 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	2.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087388.D	1	01/13/25 10:38	01/14/25 11:07	PB166040

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	18.0		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	39.0		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	36.0		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:	01/10/25
Project:	Weekly Storage Blanks	Date Received:	01/10/25
Client Sample ID:	PEST-GPC2-BLANK-SPIKE	SDG No.:	Q1060
Lab Sample ID:	Q1060-12	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
PD087388.D	1	01/13/25 10:38	01/14/25 11:07	PB166040

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\PD011425\
 Data File : PD087388.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Jan 2025 11:07
 Operator : AR\AJ
 Sample : Q1060-12
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

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

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 15 00:54:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
 Quant Title : GC Extractables
 QLast Update : Fri Dec 20 23:32:53 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

Target Compounds

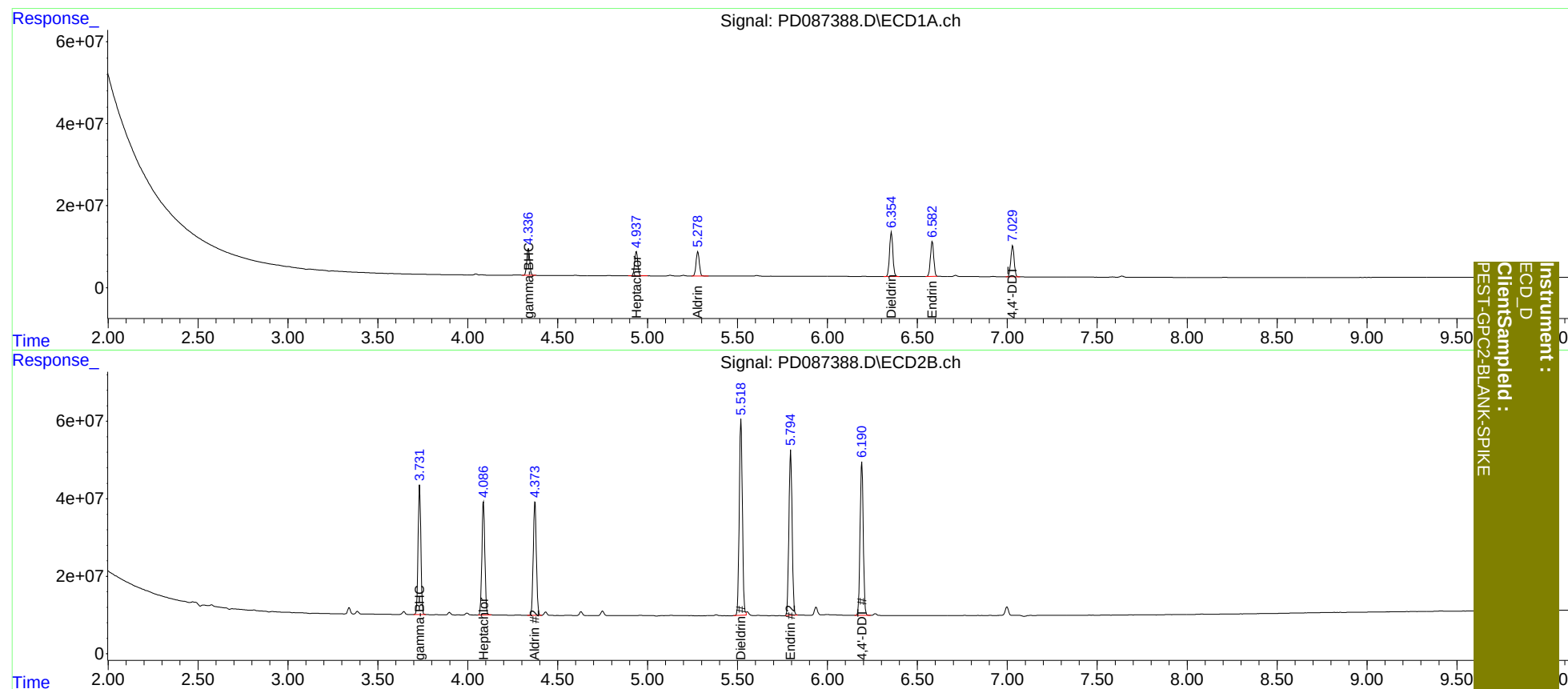
3) MA	gamma-BHC...	4.338	3.733	73996943	356.1E6	18.946	21.047
4) MA	Heptachlor	4.938	4.088	71878568	336.0E6	18.113	19.435
5) MB	Aldrin	5.280	4.374	73797180	352.4E6	18.944	21.057
13) MA	Dieldrin	6.356	5.519	139.3E6	615.7E6	38.525	40.220
14) MA	Endrin	6.583	5.796	109.6E6	524.3E6	36.679	37.528
17) MA	4,4'-DDT	7.030	6.192	97599407	488.7E6	36.405	38.761

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087388.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:07
Operator : AR\AJ
Sample : Q1060-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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





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.: Q1060 SAS No.: Q1060 SDG NO.: Q1060

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 12/19/2024 12/19/2024

Client Sample No.: CCAL01 Date Analyzed: 01/14/2025

Lab Sample No.: INDA348 Data File : PD087390.D Time Analyzed: 11:45

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.714	6.644	6.784	2592290.000	2663890.000	2.8
4,4'-DDT	7.030	6.960	7.100	2680940.000	2580410.000	-3.7
alpha-BHC	4.006	3.956	4.056	4034650.000	4107680.000	1.8
DCB	9.087	8.987	9.187	3054180.000	3128260.000	2.4
Dieldrin	6.356	6.286	6.426	3616610.000	3713190.000	2.7
Endosulfan I	6.083	6.013	6.153	3340570.000	3406510.000	2.0
Endrin	6.583	6.513	6.653	2987460.000	2964960.000	-0.8
gamma-BHC (Lindane)	4.337	4.287	4.387	3905620.000	3971440.000	1.7
Heptachlor	4.938	4.888	4.988	3968440.000	4008680.000	1.0
Methoxychlor	7.502	7.432	7.572	1487720.000	1405530.000	-5.5
TCX	3.557	3.507	3.607	2047380.000	2075310.000	1.4



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.: Q1060 SAS No.: Q1060 SDG NO.: Q1060

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/19/2024 12/19/2024

Client Sample No.: CCAL01 Date Analyzed: 01/14/2025

Lab Sample No.: INDA348 Data File : PD087390.D Time Analyzed: 11:45

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.937	5.867	6.007	12176700.000	12967500.000	6.5
4,4'-DDT	6.192	6.122	6.262	12607700.000	12841800.000	1.9
alpha-BHC	3.397	3.347	3.447	18228000.000	19848100.000	8.9
DCB	8.084	7.984	8.184	13172900.000	14146800.000	7.4
Dieldrin	5.520	5.450	5.590	15309000.000	16396600.000	7.1
Endosulfan I	5.254	5.184	5.324	14494200.000	15504600.000	7.0
Endrin	5.796	5.726	5.866	13970900.000	14172100.000	1.4
gamma-BHC (Lindane)	3.734	3.684	3.784	16919200.000	18276900.000	8.0
Heptachlor	4.088	4.038	4.138	17290400.000	18148100.000	5.0
Methoxychlor	6.763	6.693	6.833	5830000.000	5299760.000	-9.1
TCX	2.883	2.833	2.933	11636900.000	12708900.000	9.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
 Data File : PD087390.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Jan 2025 11:45
 Operator : AR\AJ
 Sample : INDA348
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 INDA3201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 15 00:54:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
 Quant Title : GC Extractables
 QLast Update : Fri Dec 20 23:32:53 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

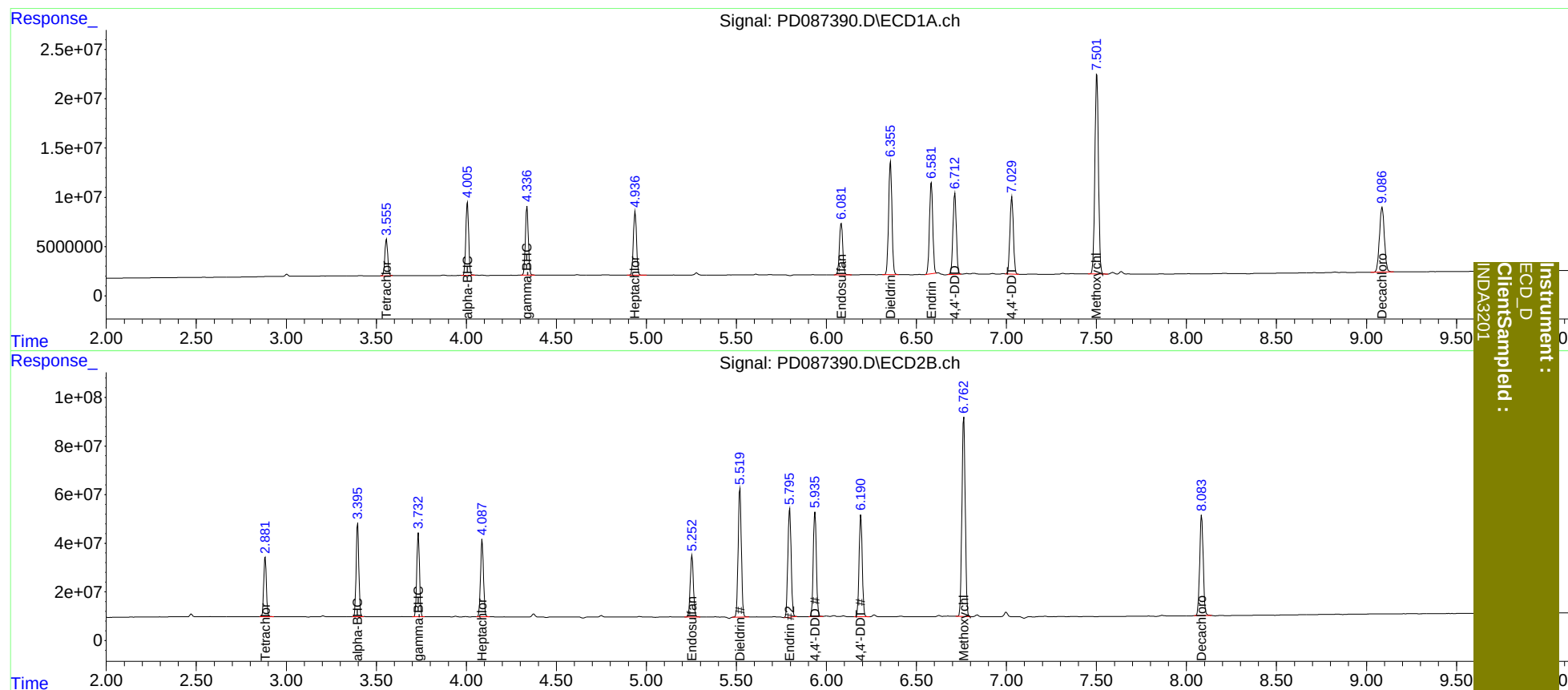
System Monitoring Compounds						
1) SA Tetrachlo...	3.557	2.883	41506236	254.2E6	20.273	21.842
2) SA Decachlor...	9.087	8.084	125.1E6	565.9E6	40.970	42.957
Target Compounds						
2) A alpha-BHC	4.006	3.397	82153614	397.0E6	20.362	21.778
3) MA gamma-BHC...	4.337	3.734	79428796	365.5E6	20.337	21.605
4) MA Heptachlor	4.938	4.088	80173611	363.0E6	20.203	20.992
9) A Endosulfan I	6.083	5.254	68130299	310.1E6	20.395	21.394
13) MA Dieldrin	6.356	5.520	148.5E6	655.9E6	41.068	42.842
14) MA Endrin	6.583	5.796	118.6E6	566.9E6	39.699	40.576
16) A 4,4'-DDD	6.714	5.937	106.6E6	518.7E6	41.105	42.598
17) MA 4,4'-DDT	7.030	6.192	103.2E6	513.7E6	38.500	40.743
20) A Methoxychlor	7.502	6.763	281.1E6	1060.0E6	188.951	181.810

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087390.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:45
Operator : AR\AJ
Sample : INDA348
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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





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.: Q1060 SAS No.: Q1060 SDG NO.: Q1060

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 12/19/2024 12/19/2024

Client Sample No.: CCAL02 Date Analyzed: 01/14/2025

Lab Sample No.: INDB348 Data File : PD087391.D Time Analyzed: 11:59

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDE	6.204	6.134	6.274	3309100.000	3437090.000	3.9
Aldrin	5.279	5.229	5.329	3895480.000	4010890.000	3.0
beta-BHC	4.521	4.471	4.571	1748660.000	1821750.000	4.2
cis-Chlordane	6.034	5.964	6.104	3550920.000	3722120.000	4.8
DCB	9.086	8.986	9.186	3054180.000	3238500.000	6.0
delta-BHC	4.770	4.720	4.820	3975810.000	4131840.000	3.9
Endosulfan II	6.794	6.724	6.864	2989090.000	3218570.000	7.7
Endosulfan sulfate	7.157	7.087	7.227	2898760.000	2975710.000	2.7
Endrin aldehyde	6.922	6.852	6.992	2347170.000	2436300.000	3.8
Endrin ketone	7.637	7.567	7.707	3208880.000	3312980.000	3.2
Heptachlor epoxide	5.699	5.629	5.769	3609520.000	3835880.000	6.3
TCX	3.556	3.506	3.606	2047380.000	2196790.000	7.3
trans-Chlordane	5.953	5.883	6.023	3495820.000	3643700.000	4.2



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.: Q1060 SAS No.: Q1060 SDG NO.: Q1060

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/19/2024 12/19/2024

Client Sample No.: CCAL02 Date Analyzed: 01/14/2025

Lab Sample No.: INDB348 Data File : PD087391.D Time Analyzed: 11:59

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDE	5.383	5.313	5.453	14897300.000	16374100.000	9.9
Aldrin	4.374	4.324	4.424	16735800.000	18684100.000	11.6
beta-BHC	4.029	3.979	4.079	7826000.000	8592850.000	9.8
cis-Chlordane	5.195	5.125	5.265	15708200.000	17374200.000	10.6
DCB	8.083	7.983	8.183	13172900.000	14551000.000	10.5
delta-BHC	4.266	4.216	4.316	17361000.000	18952100.000	9.2
Endosulfan II	6.087	6.017	6.157	13577900.000	14915800.000	9.9
Endosulfan sulfate	6.490	6.420	6.560	13220500.000	14344800.000	8.5
Endrin aldehyde	6.266	6.196	6.336	10448300.000	11446700.000	9.6
Endrin ketone	6.999	6.929	7.069	14454400.000	15543300.000	7.5
Heptachlor epoxide	4.879	4.809	4.949	15678300.000	17190100.000	9.6
TCX	2.883	2.833	2.933	11636900.000	13463800.000	15.7
trans-Chlordane	5.132	5.062	5.202	16271600.000	17932000.000	10.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
 Data File : PD087391.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Jan 2025 11:59
 Operator : AR\AJ
 Sample : INDB348
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

INDB3202

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 15 00:54:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
 Quant Title : GC Extractables
 QLast Update : Fri Dec 20 23:32:53 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

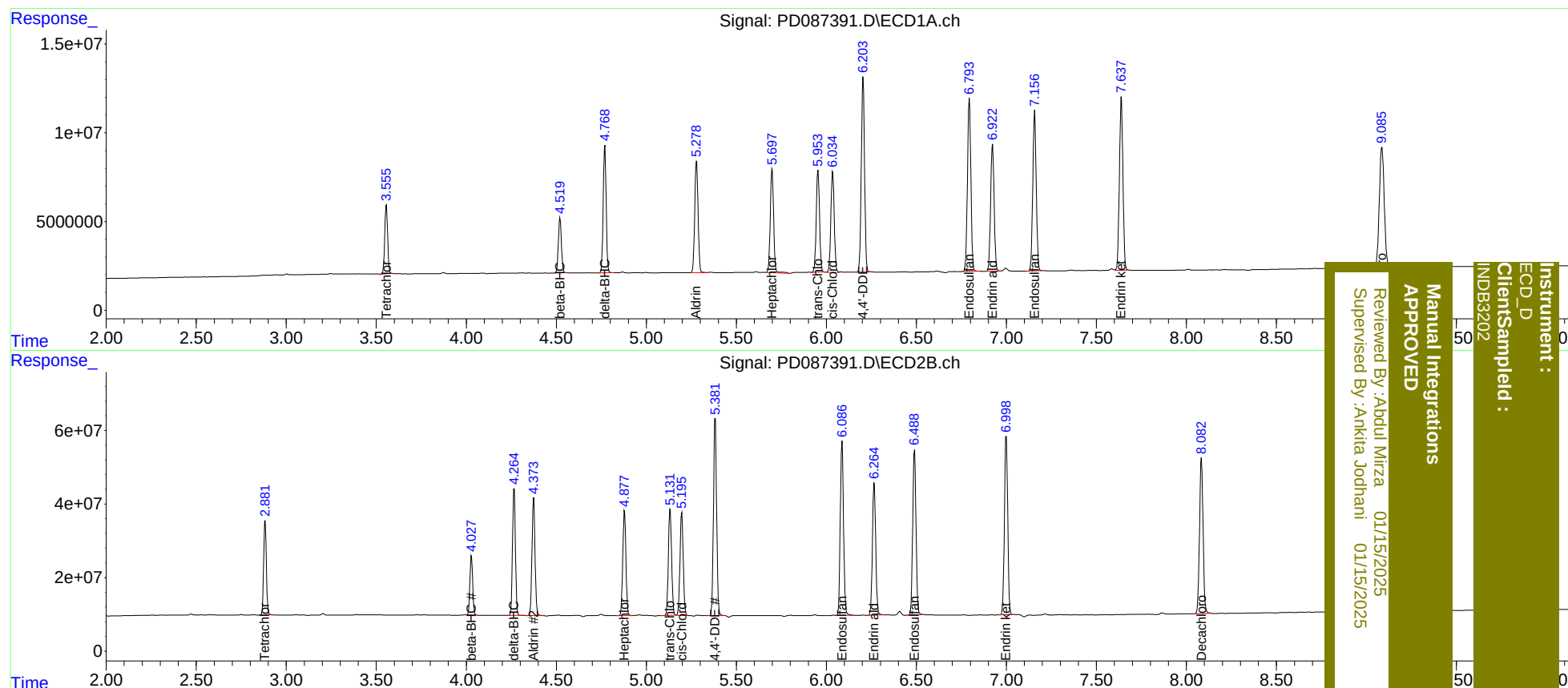
System Monitoring Compounds							
1)	SA Tetrachlo...	3.556	2.883	43935718	269.3E6	21.459	23.140
27)	SA Decachlor...	9.086	8.083	129.5E6	582.0E6	42.414	44.185
Target Compounds							
5)	MB Aldrin	5.279	4.374	80217742	373.7E6	20.593	22.328
6)	B beta-BHC	4.521	4.029	36434920	171.9E6	20.836	21.960
7)	B delta-BHC	4.770	4.266	82636845	379.0E6	20.785	21.833
8)	B Heptachlo...	5.699	4.879	76717566	343.8E6	21.254	21.929
10)	B trans-Chl...	5.953	5.132	72874073	358.6E6	20.846m	22.041
11)	B cis-Chlor...	6.034	5.195	74442374	347.5E6	20.964m	22.121m
12)	B 4,4'-DDE	6.204	5.383	137.5E6	655.0E6	41.547	43.965
15)	B Endosulfa...	6.794	6.087	128.7E6	596.6E6	43.071	43.941
18)	B Endrin al...	6.922	6.266	97451801	457.9E6	41.519m	43.822
19)	B Endosulfa...	7.157	6.490	119.0E6	573.8E6	41.062	43.402
21)	B Endrin ke...	7.637	6.999	132.5E6	621.7E6	41.298m	43.013

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Manual Integrations
APPROVED
Reviewed By: Abdul Mirza 01/15/2025
Supervised By: Ankita Jodhani 01/15/2025

Instrument :
ECD_D
ClientSampled :
INDB3202

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

INDB348

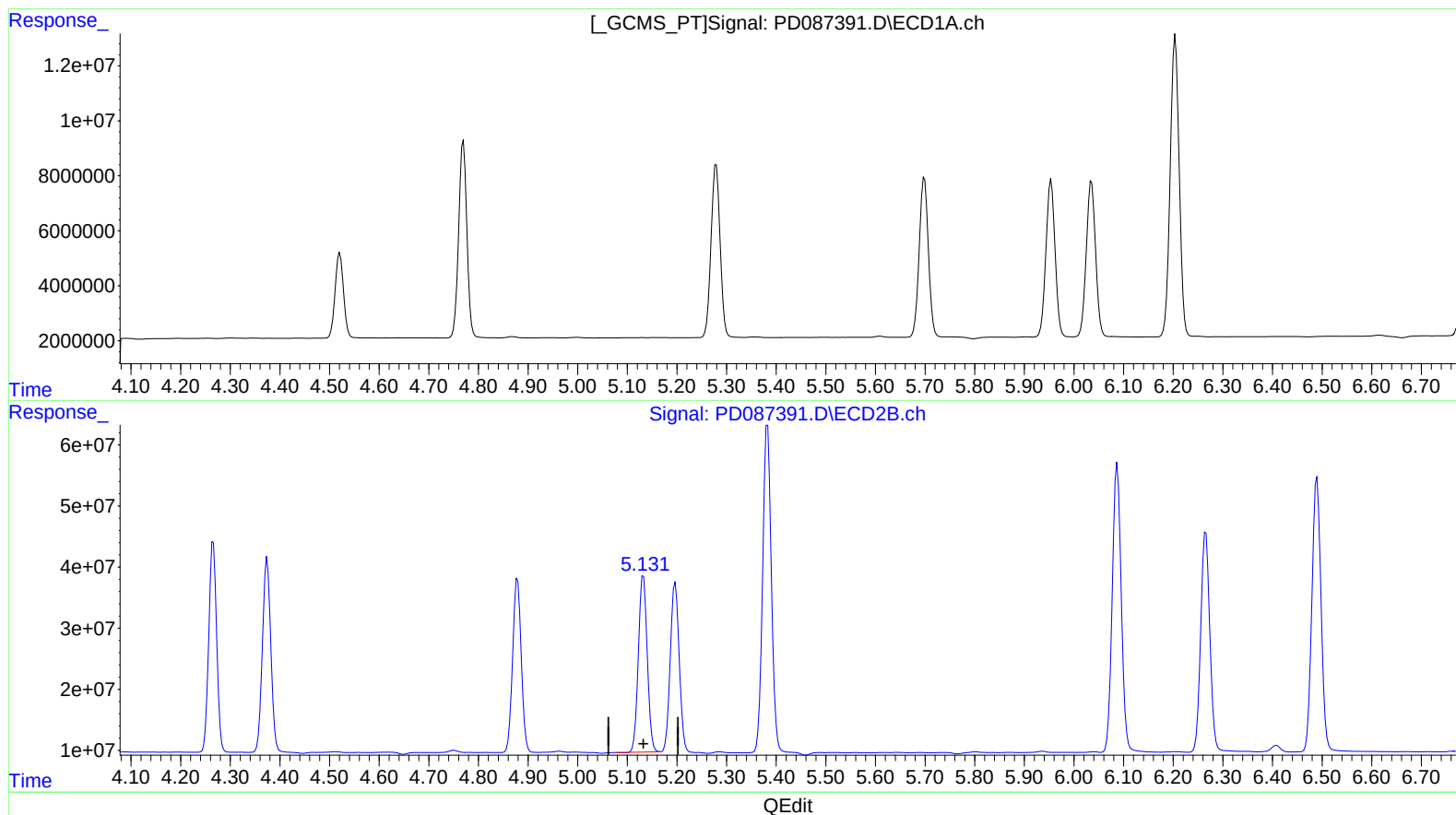
Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(10) trans-Chlordane (B)

0.000min 0.000 ng/ml

response 0

(10) trans-Chlordane #2 (B)

5.132min 22.041 ng/ml

response 358639040

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

INDB348

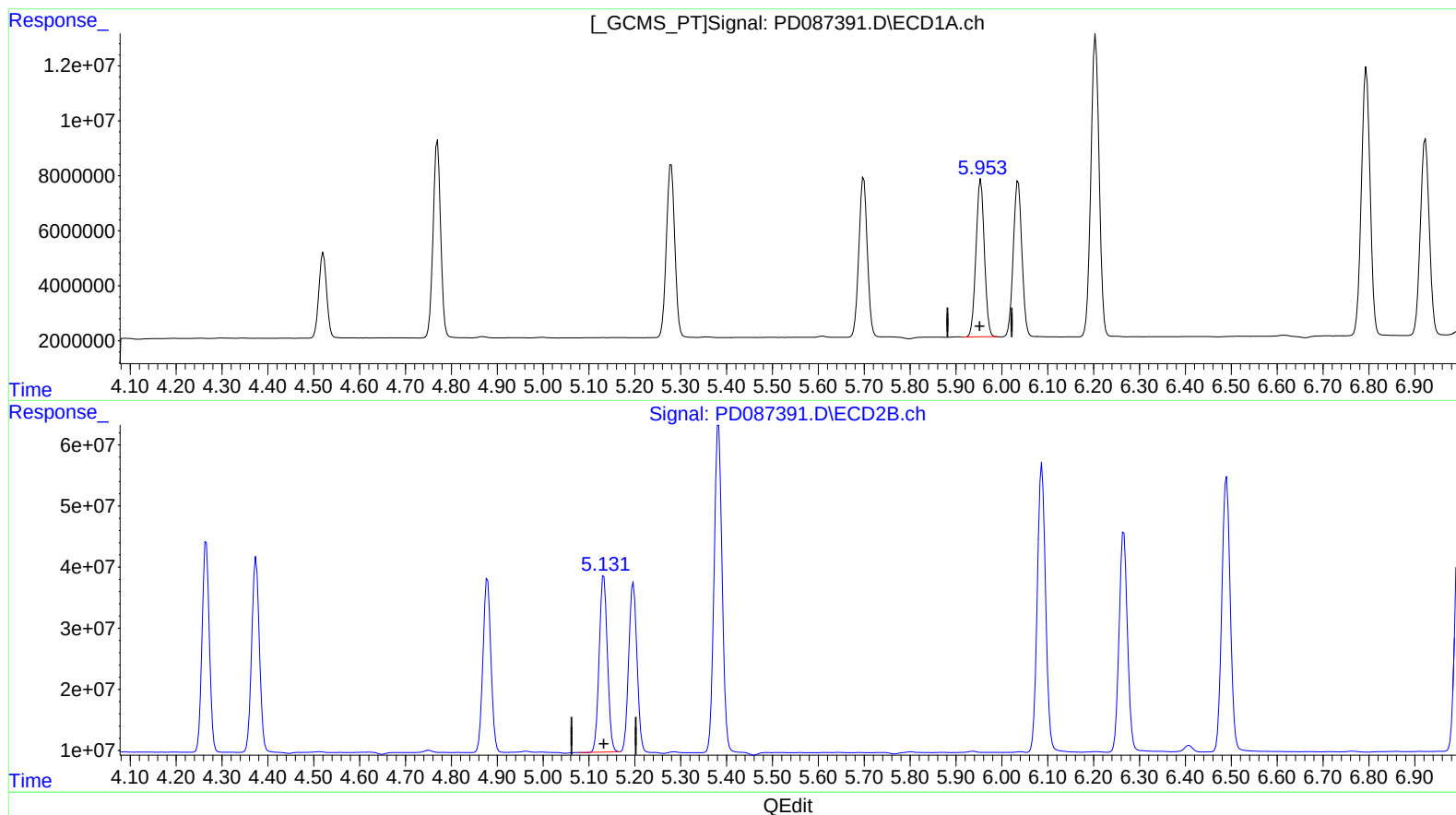
Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(10) trans-Chlordane (B)
5.953min 20.846 ng/ml m
response 72874073

(10) trans-Chlordane #2 (B)
5.132min 22.041 ng/ml
response 358639040

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

INDB348

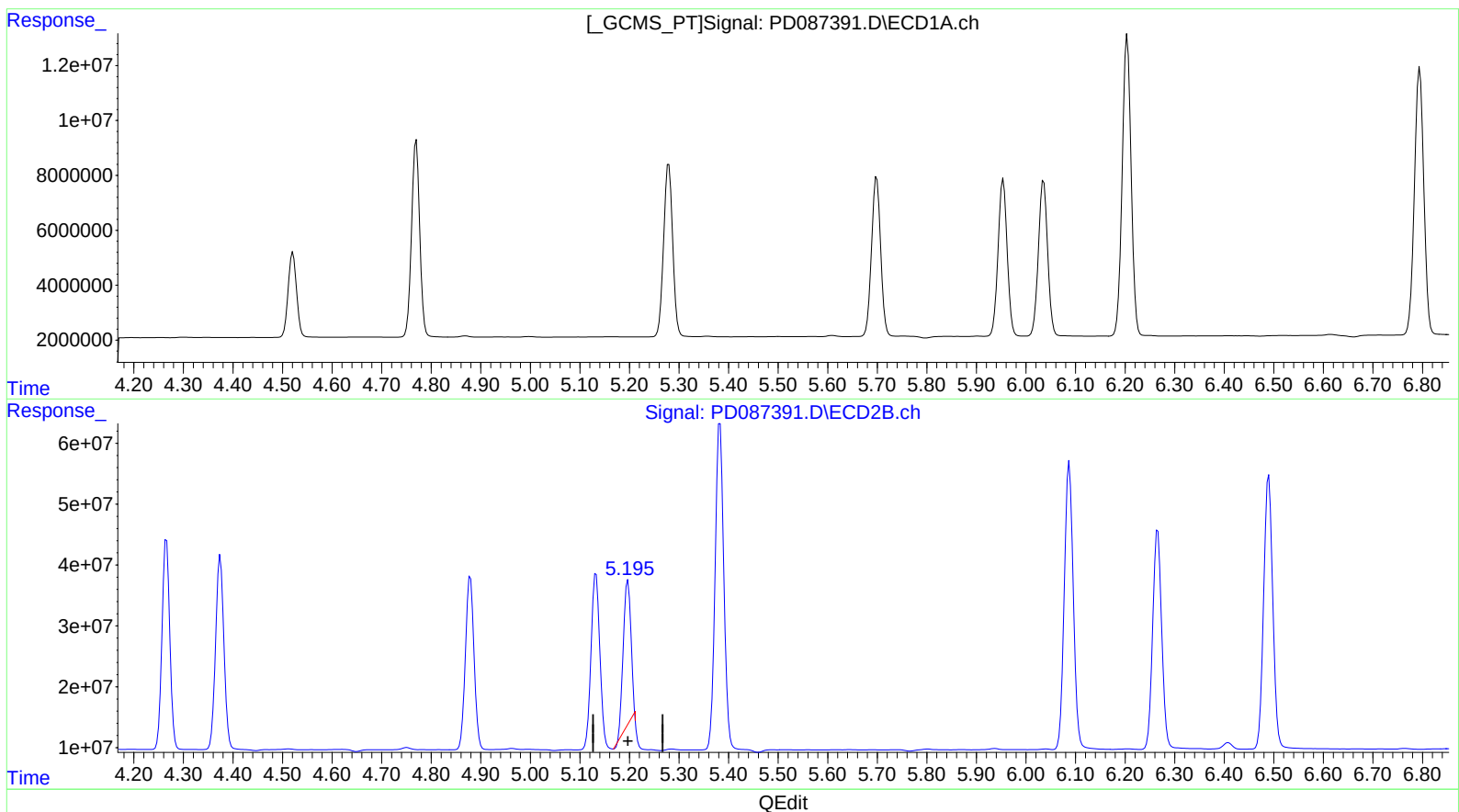
Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(11) cis-Chlordane (B)

0.000min 0.000 ng/ml

response 0

(11) cis-Chlordane #2 (B)

5.197min 16.127 ng/ml

response 253322450

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

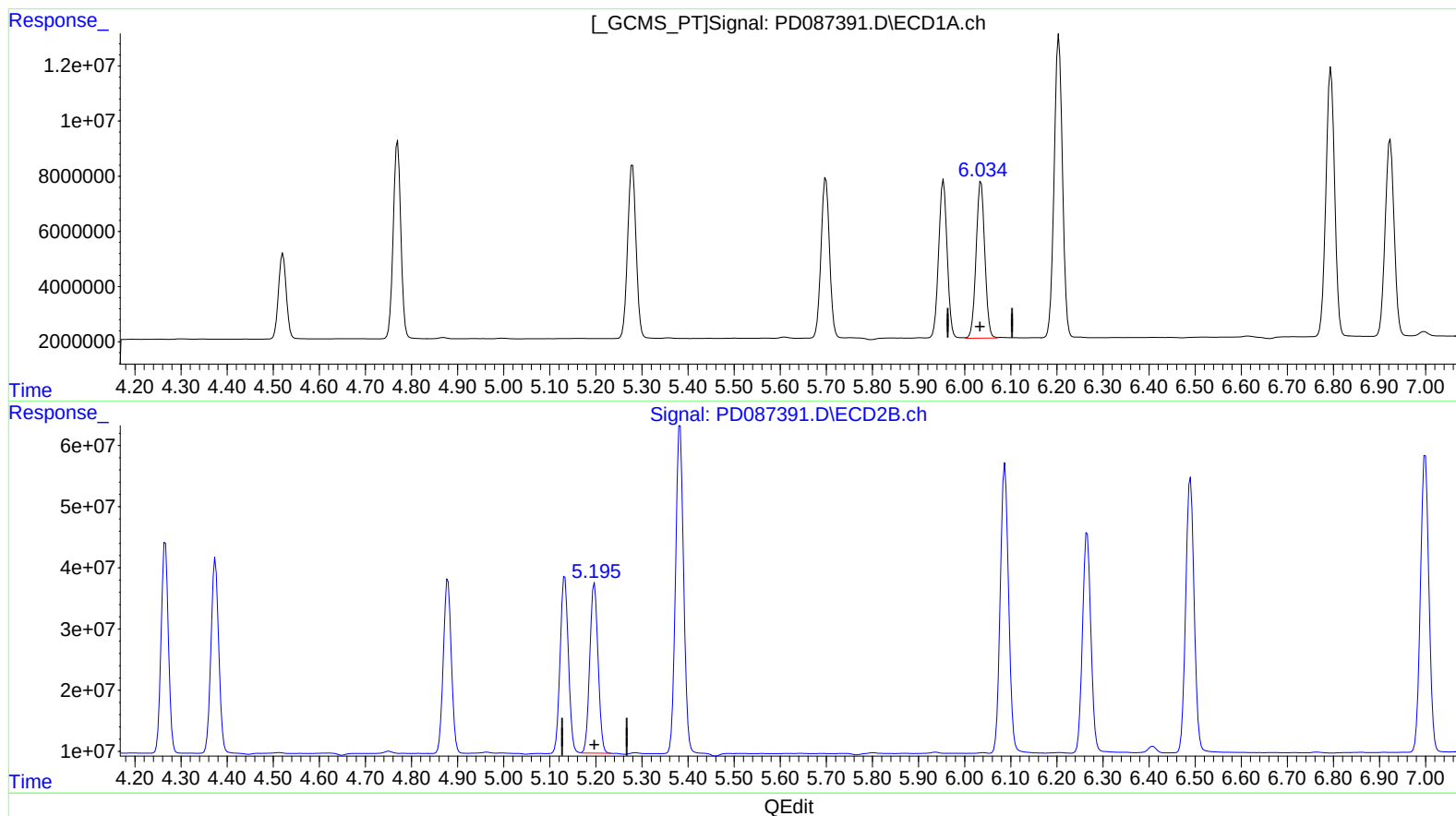
INDB348

Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(11) cis-Chlordane (B)
6.034min 20.964 ng/ml m
response 74442374

(11) cis-Chlordane #2 (B)
5.195min 22.121 ng/ml m
response 347484867

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
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Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

INDB348

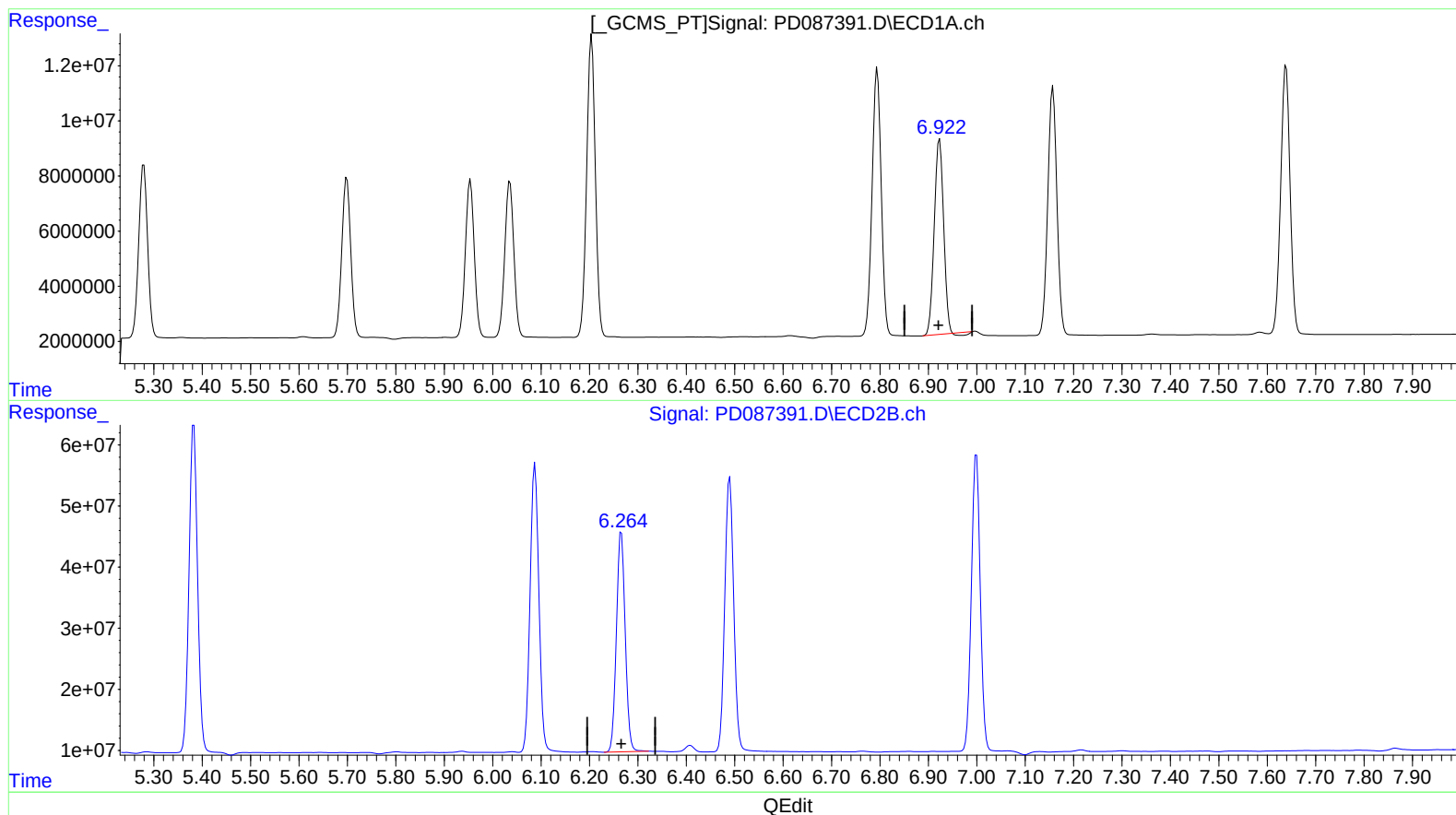
Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(18) Endrin aldehyde (B)

6.923min 40.006 ng/ml

response 93900937

(18) Endrin aldehyde #2 (B)

6.266min 43.822 ng/ml

response 457867745

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

INDB348

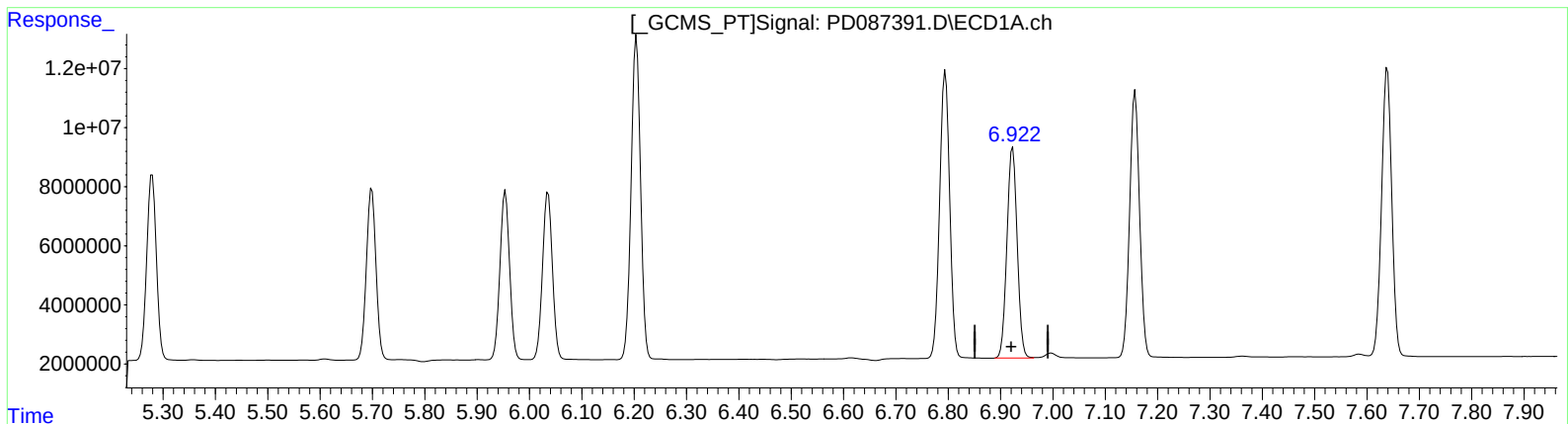
Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(18) Endrin aldehyde (B)
6.922min 41.519 ng/ml m
response 97451801

(18) Endrin aldehyde #2 (B)
6.266min 43.822 ng/ml
response 457867745

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

INDB348

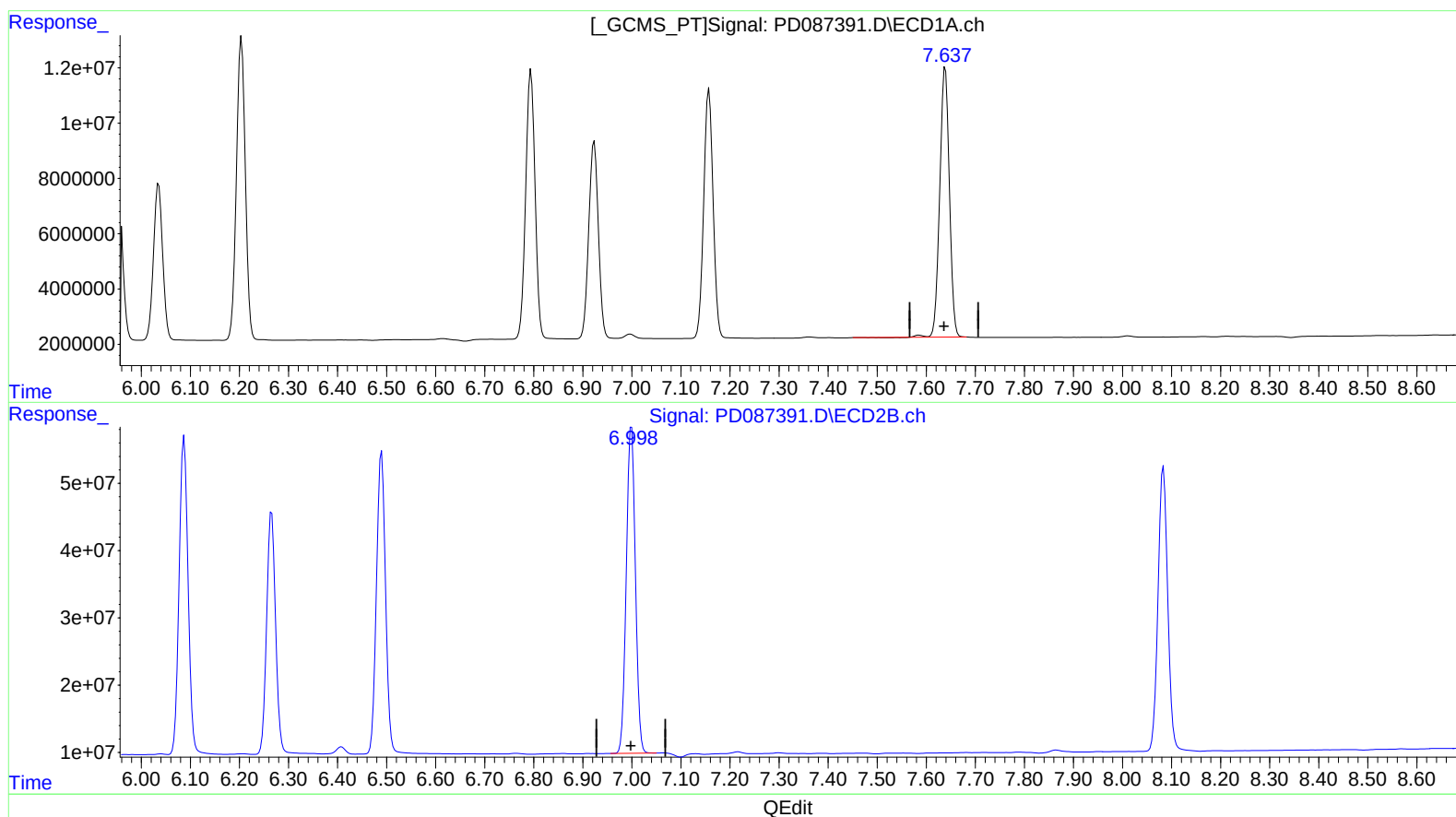
Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(21) Endrin ketone (B)

7.639min 41.520 ng/ml

response 133233892

(21) Endrin ketone #2 (B)

6.999min 43.013 ng/ml

response 621733612

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:59
Operator : AR\AJ
Sample : INDB348
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_D

LabSampleId :

INDB348

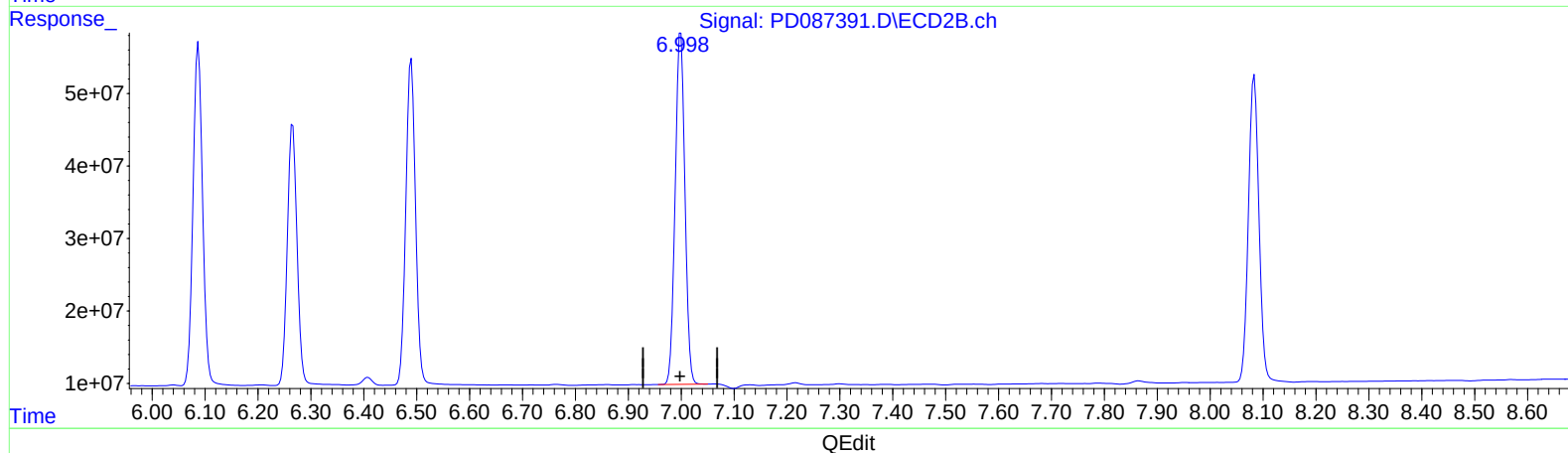
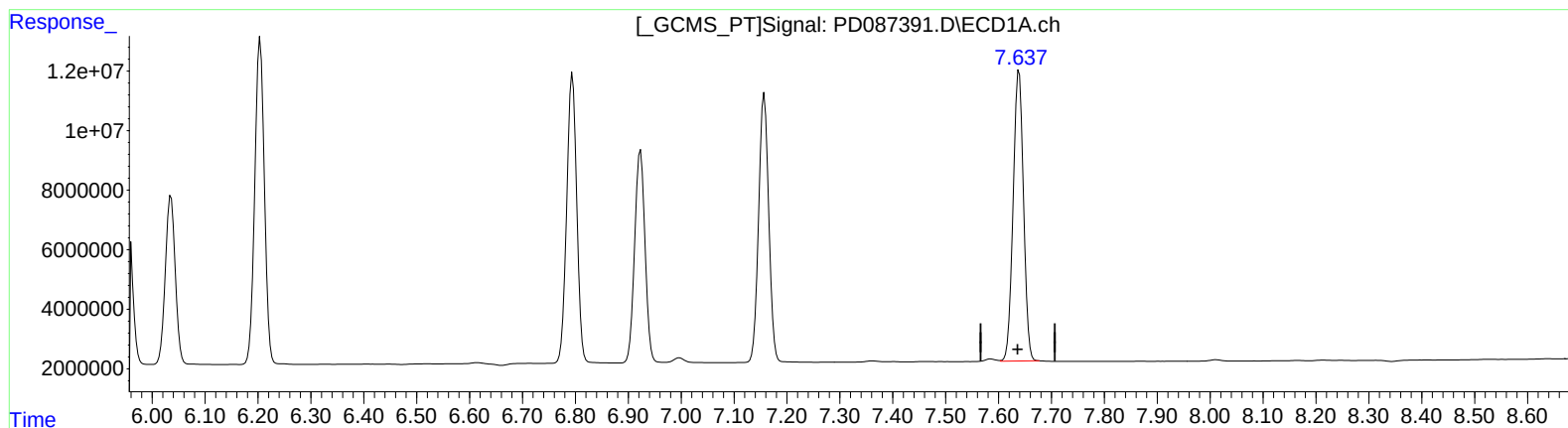
Manual IntegrationsAPPROVED

Reviewed By :Abdul Mirza 01/15/2025

Supervised By :Ankita Jodhani 01/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



(21) Endrin ketone (B)

7.637min 41.298 ng/ml m

response 132519221

(21) Endrin ketone #2 (B)

6.999min 43.013 ng/ml

response 621733612

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1060 SAS No.: Q1060 SDG NO.: Q1060

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 12/19/2024 12/19/2024

Client Sample No. (PEM): PEM - PD087386.D Date Analyzed: 01/14/2025

Lab Sample No.(PEM): PEM040 Time Analyzed: 10:29

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	4.006	3.960	4.060	10.500	10.000	5.0
beta-BHC	4.521	4.470	4.570	10.780	10.000	7.8
gamma-BHC (Lindane)	4.337	4.290	4.390	10.650	10.000	6.5
Endrin	6.583	6.510	6.650	47.770	50.000	-4.5
4,4'-DDT	7.030	6.960	7.100	103.560	100.000	3.6
Methoxychlor	7.502	7.430	7.570	234.830	250.000	-6.1
TCX	3.556	3.510	3.610	21.680	20.000	8.4
DCB	9.086	8.990	9.190	22.430	20.000	12.2

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/19/2024 12/19/2024

Client Sample No. (PEM): PEM - PD087386.D Date Analyzed: 01/14/2025

Lab Sample No.(PEM): PEM040 Time Analyzed: 10:29

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	3.396	3.350	3.450	11.950	10.000	19.5
beta-BHC	4.029	3.980	4.080	11.590	10.000	15.9
gamma-BHC (Lindane)	3.733	3.680	3.780	11.750	10.000	17.5
Endrin	5.796	5.730	5.870	46.510	50.000	-7.0
4,4'-DDT	6.191	6.120	6.260	95.650	100.000	-4.4
Methoxychlor	6.763	6.690	6.830	207.420	250.000	-17.0
TCX	2.883	2.830	2.930	23.220	20.000	16.1
DCB	8.083	7.980	8.180	23.900	20.000	19.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
 Data File : PD087386.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Jan 2025 10:29
 Operator : AR\AJ
 Sample : PEM040
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEM029

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 15 00:53:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
 Quant Title : GC Extractables
 QLast Update : Fri Dec 20 23:32:53 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

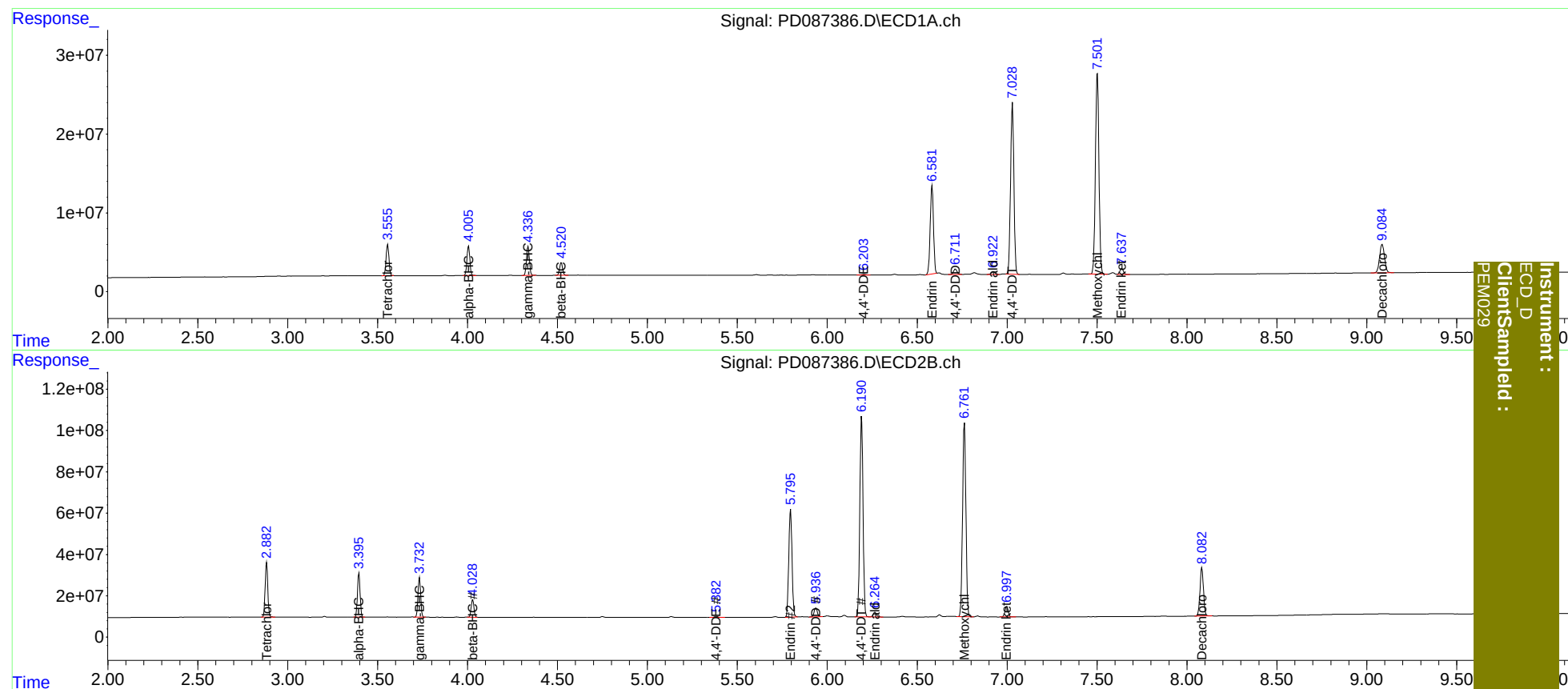
System Monitoring Compounds							
1)	SA Tetrachlo...	3.556	2.883	44383072	270.3E6	21.678	23.224
27)	SA Decachlor...	9.086	8.083	68495486	314.9E6	22.427	23.905
Target Compounds							
2)	A alpha-BHC	4.006	3.396	42352202	217.8E6	10.497	11.951
3)	MA gamma-BHC...	4.337	3.733	41605519	198.7E6	10.653	11.745
6)	B beta-BHC	4.521	4.029	18849902	90708008	10.780	11.591
12)	B 4,4'-DDE	6.205	5.383	1149341	6056112	0.347	0.407
14)	MA Endrin	6.583	5.796	142.7E6	649.8E6	47.766	46.511
16)	A 4,4'-DDD	6.713	5.937	8920400	51967403	3.441	4.268
17)	MA 4,4'-DDT	7.030	6.191	277.6E6	1205.9E6	103.557	95.651
18)	B Endrin al...	6.923	6.265	4857681	29274795	2.070	2.802 #
20)	A Methoxychlor	7.502	6.763	349.4E6	1209.3E6	234.833	207.425
21)	B Endrin ke...	7.638	6.998	10085917	65931199	3.143	4.561 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087386.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 10:29
Operator : AR\AJ
Sample : PEM040
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:53:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: Q1060

Project: Weekly Storage Blanks

Instrument ID: ECD_D

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 12/19/2024 12/19/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
RESC009	RESC054	12/19/2024	17:32	PD087204.D	9.09	3.56
PIBLK430	PIBLK068	12/19/2024	21:30	PD087221.D	9.08	3.56
PIBLK453	PIBLK090	01/14/2025	10:15	PD087385.D	9.09	3.56
PEM029	PEM040	01/14/2025	10:29	PD087386.D	9.09	3.56
PEST-GPC2-BLANK	Q1060-11	01/14/2025	10:53	PD087387.D	0.00	0.00
PEST-GPC2-BLANK-SPIKE	Q1060-12	01/14/2025	11:07	PD087388.D	0.00	0.00
PIBLK454	PIBLK091	01/14/2025	11:30	PD087389.D	9.09	3.56
CCAL01	INDA348	01/14/2025	11:45	PD087390.D	9.09	3.56
CCAL01	INDB348	01/14/2025	11:59	PD087391.D	9.09	3.56

Analytical Sequence

Client: Chemtech Consulting Group	SDG No.: Q1060
Project: Weekly Storage Blanks	Instrument ID: ECD_D
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 12/19/2024 12/19/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
RESC009	RESC054	12/19/2024	17:32	PD087204.D	8.08	2.88
PIBLK430	PIBLK068	12/19/2024	21:30	PD087221.D	8.08	2.88
PIBLK453	PIBLK090	01/14/2025	10:15	PD087385.D	8.08	2.88
PEM029	PEM040	01/14/2025	10:29	PD087386.D	8.08	2.88
PEST-GPC2-BLANK	Q1060-11	01/14/2025	10:53	PD087387.D	0.00	0.00
PEST-GPC2-BLANK-SPIKE	Q1060-12	01/14/2025	11:07	PD087388.D	0.00	0.00
PIBLK454	PIBLK091	01/14/2025	11:30	PD087389.D	8.09	2.88
CCAL01	INDA348	01/14/2025	11:45	PD087390.D	8.08	2.88
CCAL01	INDB348	01/14/2025	11:59	PD087391.D	8.08	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PEST-GPC2-BLANK-SPIKE

Contract: CHEM02

Lab Code: CHEM Case No.: Q1060

SAS No.: Q1060 SDG NO.: Q1060

Lab Sample ID: Q1060-12

Date(s) Analyzed: 01/14/2025 01/14/2025

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		
gamma-BHC (Lindane)	1	4.34	4.29	4.39	19.0	11.1
	2	3.73	3.68	3.78	21.0	
Heptachlor	1	4.94	4.89	4.99	18.0	7.3
	2	4.09	4.04	4.14	19.0	
Aldrin	1	5.28	5.23	5.33	19.0	11.2
	2	4.37	4.32	4.42	21.0	
Dieldrin	1	6.36	6.31	6.41	39.0	4.4
	2	5.52	5.47	5.57	40.0	
Endrin	1	6.58	6.53	6.63	37.0	2.3
	2	5.80	5.75	5.85	38.0	
4,4'-DDT	1	7.03	6.98	7.08	36.0	6.5
	2	6.19	6.14	6.24	39.0	



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/14/25
Project:	Weekly Storage Blanks	Date Received:	01/14/25
Client Sample ID:	PIBLK-PD087385.D	SDG No.:	Q1060
Lab Sample ID:	I.BLK-PD087385.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
PD087385.D	1		01/14/25	PD011425

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:	01/14/25
Project:	Weekly Storage Blanks	Date Received:	01/14/25
Client Sample ID:	PIBLK-PD087385.D	SDG No.:	Q1060
Lab Sample ID:	I.BLK-PD087385.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
PD087385.D	1		01/14/25	PD011425

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\PD011425\
 Data File : PD087385.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Jan 2025 10:15
 Operator : AR\AJ
 Sample : PIBLK090
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PIBLK453

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 15 00:53:39 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
 Quant Title : GC Extractables
 QLast Update : Fri Dec 20 23:32:53 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.557	2.883	46185837	283.4E6	22.559	24.352
27) SA Decachlor...	9.088	8.083	102.2E6	468.5E6	33.451	35.563

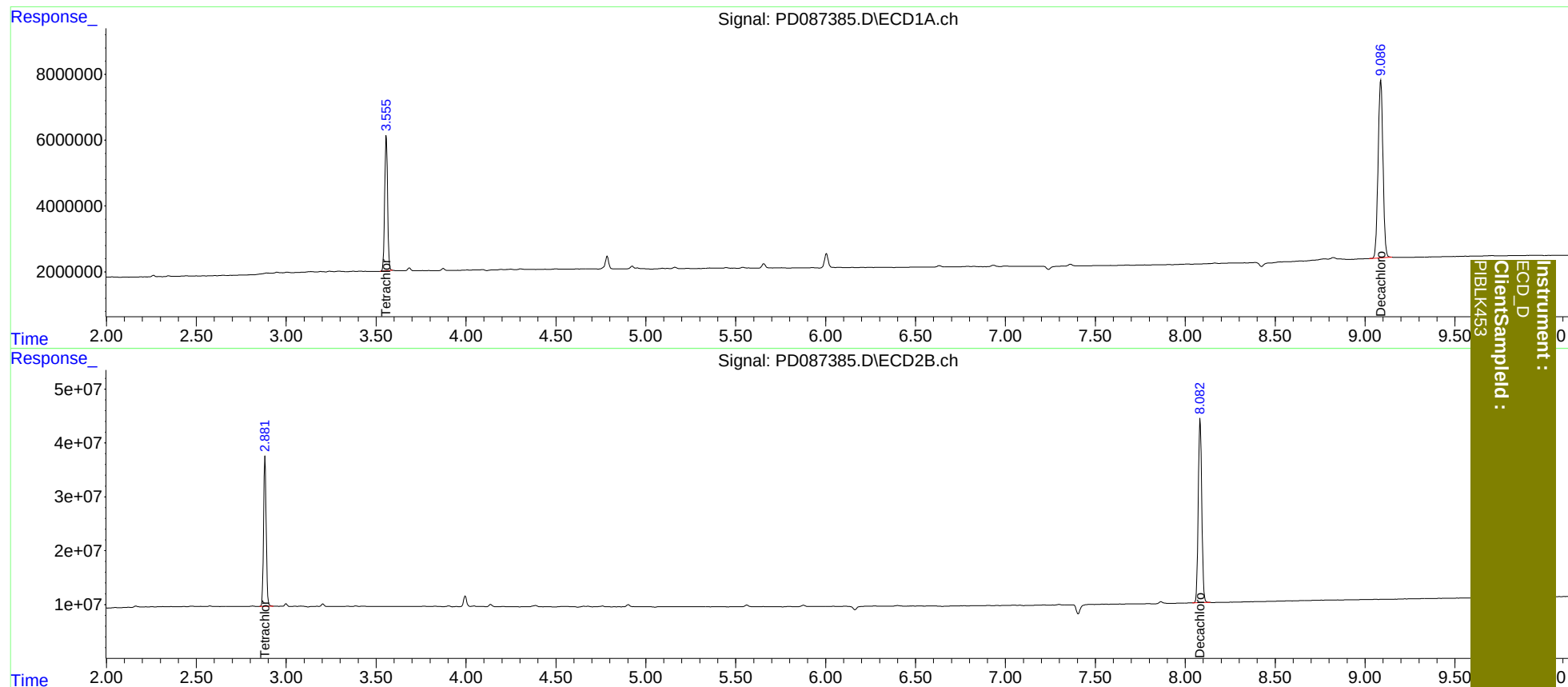
Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087385.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 10:15
Operator : AR\AJ
Sample : PIBLK090
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:53:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/14/25
Project:	Weekly Storage Blanks	Date Received:	01/14/25
Client Sample ID:	PIBLK-PD087389.D	SDG No.:	Q1060
Lab Sample ID:	I.BLK-PD087389.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
PD087389.D	1		01/14/25	PD011425

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	0.34		30 - 150	85%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/14/25
Project:	Weekly Storage Blanks	Date Received:	01/14/25
Client Sample ID:	PIBLK-PD087389.D	SDG No.:	Q1060
Lab Sample ID:	I.BLK-PD087389.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
PD087389.D	1		01/14/25	PD011425

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\PD011425\
Data File : PD087389.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:30
Operator : AR\AJ
Sample : PIBLK091
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PIBLK454

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.561	2.883	46092364	287.1E6	22.513	24.670
27) SA Decachlor...	9.092	8.086	104.3E6	472.9E6	34.160	35.899

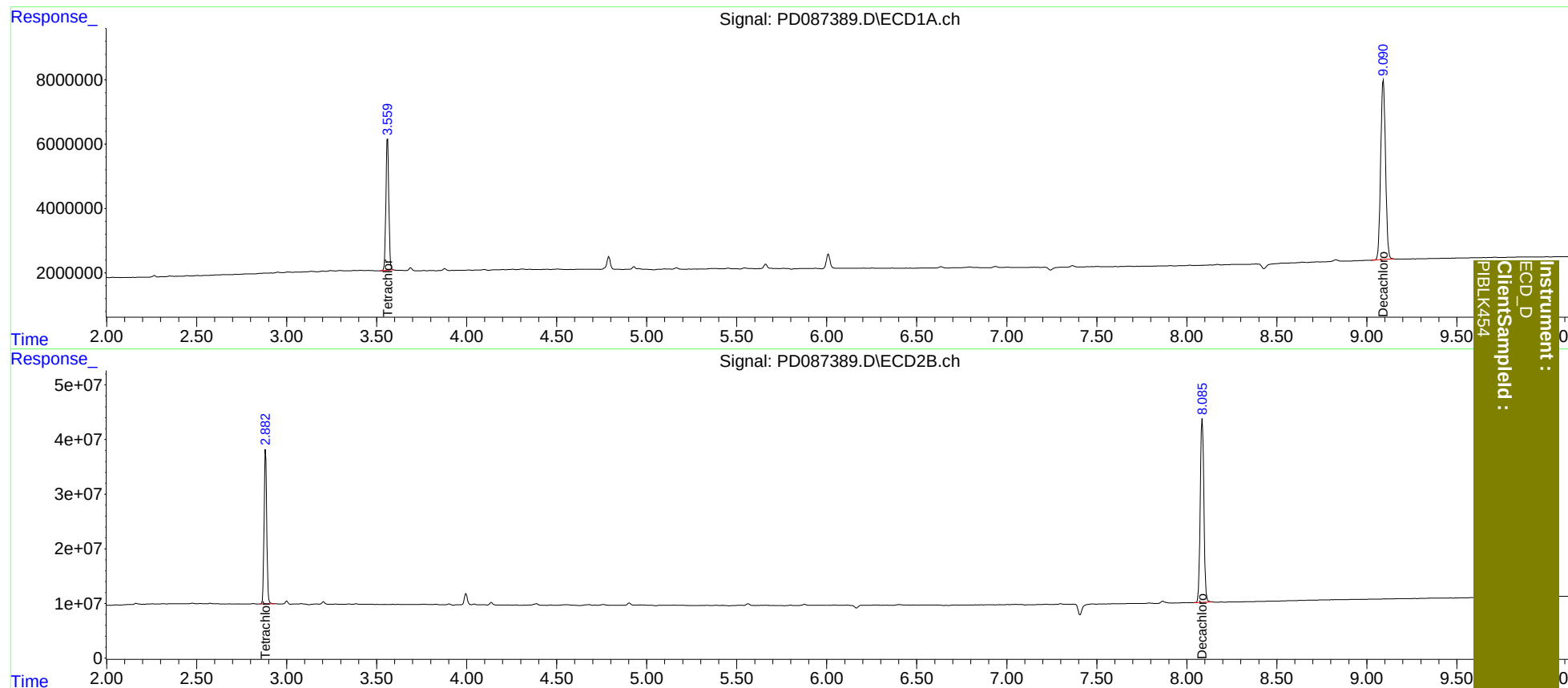
Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD011425\
Data File : PD087389.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jan 2025 11:30
Operator : AR\AJ
Sample : PIBLK091
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 00:54:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD122024CLP.M
Quant Title : GC Extractables
QLast Update : Fri Dec 20 23:32:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
ECD_D
ClientSampled :
PIBLK454

Manual Integration Report

Sequence:	PD122024	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM024	PD087205.D	gamma-BHC (Lindane) #2	Abdul	12/23/2024 2:55:08 PM	mohammad	12/25/2024 4:05:22	Peak Integrated by Software
PEM025	PD087222.D	gamma-BHC (Lindane) #2	Abdul	12/23/2024 2:55:12 PM	mohammad	12/25/2024 4:05:28	Peak Integrated by Software

Manual Integration Report

Sequence:

PD011425

Instrument

ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
INDB348	PD087391.D	cis-Chlordane	Abdul	1/15/2025 8:37:21 AM	Ankita	1/15/2025 9:04:02	Peak Integrated by Software
INDB348	PD087391.D	cis-Chlordane #2	Abdul	1/15/2025 8:37:21 AM	Ankita	1/15/2025 9:04:02	Peak Integrated by Software
INDB348	PD087391.D	Endrin aldehyde	Abdul	1/15/2025 8:37:21 AM	Ankita	1/15/2025 9:04:02	Peak Integrated by Software
INDB348	PD087391.D	Endrin ketone	Abdul	1/15/2025 8:37:21 AM	Ankita	1/15/2025 9:04:02	Peak Integrated by Software
INDB348	PD087391.D	trans-Chlordane	Abdul	1/15/2025 8:37:21 AM	Ankita	1/15/2025 9:04:02	Peak Integrated by Software

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD122024

Review By	Abdul	Review On	12/20/2024 9:21:23 AM
Supervise By	mohammad	Supervise On	12/25/2024 4:05:44 AM
SubDirectory	PD122024	HP Acquire Method	HP Processing Method PD122024clp
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	PD087203.D	19 Dec 2024 17:12	AR\AJ	Ok
2	RESC054	PD087204.D	19 Dec 2024 17:32	AR\AJ	Ok
3	PEM024	PD087205.D	19 Dec 2024 17:45	AR\AJ	Ok,M
4	TOXAPH101	PD087206.D	19 Dec 2024 18:00	AR\AJ	Ok
5	TOXAPH201	PD087207.D	19 Dec 2024 18:14	AR\AJ	Ok
6	TOXAPH301	PD087208.D	19 Dec 2024 18:28	AR\AJ	Ok
7	TOXAPH401	PD087209.D	19 Dec 2024 18:42	AR\AJ	Ok
8	TOXAPH501	PD087210.D	19 Dec 2024 18:56	AR\AJ	Ok
9	INDA101	PD087211.D	19 Dec 2024 19:10	AR\AJ	Ok
10	INDB101	PD087212.D	19 Dec 2024 19:24	AR\AJ	Ok
11	INDA201	PD087213.D	19 Dec 2024 19:38	AR\AJ	Ok
12	INDB201	PD087214.D	19 Dec 2024 19:52	AR\AJ	Ok
13	INDA301	PD087215.D	19 Dec 2024 20:06	AR\AJ	Ok
14	INDB301	PD087216.D	19 Dec 2024 20:20	AR\AJ	Ok
15	INDA401	PD087217.D	19 Dec 2024 20:34	AR\AJ	Ok
16	INDB401	PD087218.D	19 Dec 2024 20:48	AR\AJ	Ok
17	INDA501	PD087219.D	19 Dec 2024 21:02	AR\AJ	Ok
18	INDB501	PD087220.D	19 Dec 2024 21:16	AR\AJ	Ok
19	PIBLK068	PD087221.D	19 Dec 2024 21:30	AR\AJ	Ok
20	PEM025	PD087222.D	19 Dec 2024 21:44	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD011425

Review By	Abdul	Review On	1/15/2025 8:37:36 AM
Supervise By	Ankita	Supervise On	1/15/2025 9:04:07 AM
SubDirectory	PD011425	HP Acquire Method	HP Processing Method PD122024clp
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	PD087384.D	14 Jan 2025 10:01	AR\AJ	Ok
2	PIBLK090	PD087385.D	14 Jan 2025 10:15	AR\AJ	Ok
3	PEM040	PD087386.D	14 Jan 2025 10:29	AR\AJ	Ok
4	Q1060-11	PD087387.D	14 Jan 2025 10:53	AR\AJ	Ok
5	Q1060-12	PD087388.D	14 Jan 2025 11:07	AR\AJ	Ok
6	PIBLK091	PD087389.D	14 Jan 2025 11:30	AR\AJ	Ok
7	INDA348	PD087390.D	14 Jan 2025 11:45	AR\AJ	Ok
8	INDB348	PD087391.D	14 Jan 2025 11:59	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD122024

Review By	Abdul	Review On	12/20/2024 9:21:23 AM
Supervise By	mohammad	Supervise On	12/25/2024 4:05:44 AM
SubDirectory	PD122024	HP Acquire Method	HP Processing Method PD122024clp
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	PD087203.D	19 Dec 2024 17:12		AR\AJ	Ok
2	RESC054	RESC009	PD087204.D	19 Dec 2024 17:32		AR\AJ	Ok
3	PEM024	PEM011	PD087205.D	19 Dec 2024 17:45		AR\AJ	Ok,M
4	TOXAPH101	TOXAPH1020	PD087206.D	19 Dec 2024 18:00		AR\AJ	Ok
5	TOXAPH201	TOXAPH2021	PD087207.D	19 Dec 2024 18:14		AR\AJ	Ok
6	TOXAPH301	TOXAPH3022	PD087208.D	19 Dec 2024 18:28		AR\AJ	Ok
7	TOXAPH401	TOXAPH4023	PD087209.D	19 Dec 2024 18:42		AR\AJ	Ok
8	TOXAPH501	TOXAPH5024	PD087210.D	19 Dec 2024 18:56		AR\AJ	Ok
9	INDA101	INDA1025	PD087211.D	19 Dec 2024 19:10		AR\AJ	Ok
10	INDB101	INDB1026	PD087212.D	19 Dec 2024 19:24		AR\AJ	Ok
11	INDA201	INDA2027	PD087213.D	19 Dec 2024 19:38		AR\AJ	Ok
12	INDB201	INDB2028	PD087214.D	19 Dec 2024 19:52		AR\AJ	Ok
13	INDA301	INDA3029	PD087215.D	19 Dec 2024 20:06		AR\AJ	Ok
14	INDB301	INDB3030	PD087216.D	19 Dec 2024 20:20		AR\AJ	Ok
15	INDA401	INDA4031	PD087217.D	19 Dec 2024 20:34		AR\AJ	Ok
16	INDB401	INDB4032	PD087218.D	19 Dec 2024 20:48		AR\AJ	Ok
17	INDA501	INDA5033	PD087219.D	19 Dec 2024 21:02		AR\AJ	Ok
18	INDB501	INDB5034	PD087220.D	19 Dec 2024 21:16		AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD122024

Review By	Abdul	Review On	12/20/2024 9:21:23 AM
Supervise By	mohammad	Supervise On	12/25/2024 4:05:44 AM
SubDirectory	PD122024	HP Acquire Method	HP Processing Method PD122024clp

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	PIBLK068	PIBLK430	PD087221.D	19 Dec 2024 21:30		AR\AJ	Ok
20	PEM025	PEM012	PD087222.D	19 Dec 2024 21:44		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD011425

Review By	Abdul	Review On	1/15/2025 8:37:36 AM
Supervise By	Ankita	Supervise On	1/15/2025 9:04:07 AM
SubDirectory	PD011425	HP Acquire Method	HP Processing Method PD122024clp
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	PD087384.D	14 Jan 2025 10:01		AR\AJ	Ok
2	PIBLK090	PIBLK453	PD087385.D	14 Jan 2025 10:15		AR\AJ	Ok
3	PEM040	PEM029	PD087386.D	14 Jan 2025 10:29		AR\AJ	Ok
4	Q1060-11	PEST-GPC2-BLANK	PD087387.D	14 Jan 2025 10:53		AR\AJ	Ok
5	Q1060-12	PEST-GPC2-BLANK-S	PD087388.D	14 Jan 2025 11:07		AR\AJ	Ok
6	PIBLK091	PIBLK454	PD087389.D	14 Jan 2025 11:30		AR\AJ	Ok
7	INDA348	INDA3201	PD087390.D	14 Jan 2025 11:45		AR\AJ	Ok
8	INDB348	INDB3202	PD087391.D	14 Jan 2025 11:59		AR\AJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 01/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 01/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134230

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
Q1060-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q1060-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q1060-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q1060-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1060-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1060-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1060-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1060-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1060-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1060-14	PCB-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1064-01	LAW-25-0003	11	1.14	8.60	9.74	8.75	88.5	
Q1065-01	MOO-25-0002	12	1.00	1.00	2.00	2.00	100.0	debris
Q1067-01	PIPE-1	13	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1067-02	PIPE-2	14	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1067-03	PIPE-3	15	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1068-01	TR-06-1-10-2025	16	1.15	8.84	9.99	9.15	90.5	
Q1068-02	TR-06-1-10-2025	17	1.15	8.84	9.99	9.15	90.5	
Q1068-03	TR-06-1-10-2025	18	1.19	8.70	9.89	9.03	90.1	
Q1069-01	RW7B-CARBON-20250109	19	1.17	8.65	9.82	5.98	55.6	

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

WORKLIST(Hardcopy Internal Chain)

134230

WorkList Name : %1-011025 WorkList ID : 186855 Department : Wet-Chemistry Date : 01-10-2025 08:31:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1060-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1064-01	LAW-25-0003	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1065-01	MOO-25-0002	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1067-01	PIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1067-02	PIPE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1067-03	PIPE-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1068-01	TR-06-1-10-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1068-02	TR-06-1-10-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1068-03	TR-06-1-10-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1069-01	RW7B-CARBON-20250109	Solid	Percent Solids	Cool 4 deg C	TETR06	M11	01/09/2025	Chemtech -SO

Date/Time 01-10-25 15:30

Raw Sample Received by: SSW

Raw Sample Relinquished by: SSW

Date/Time 01-10-25

Raw Sample Received by: SSW

Raw Sample Relinquished by: SSW

Prep Standard - Chemical Standard Summary

Order ID : Q1060

Test : Pesticide-TCL

Prepbatch ID : PB166040,

Sequence ID/Qc Batch ID: PD011425,

Standard ID :

EP2577,EP2578,PP23713,PP23714,PP23715,PP23716,PP23717,PP23718,PP23719,PP23720,PP23721,PP23722,PP23723,PP23724,PP23725,PP23726,PP23727,PP23728,PP23729,PP23730,PP23731,PP23732,PP23975,PP24060,

Chemical ID :

E3551,E3788,E3805,E3806,E3826,E3829,E3846,E3847,E3848,P11763,P11797,P11945,P13191,P13360,P13383,



<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	EP2577	01/06/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025
<u>FROM</u> 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 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>
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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	06/16/2025	12/16/2024 / Rajesh	12/13/2024 / Rajesh	E3847

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 #
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

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

CHEMICAL RECEIPT LOG BOOK

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

 **avantors™**



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

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

Certificate of Analysis

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

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

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

Recd. by RP on 12/13/24

E3847



Jamie Croak
Director Quality Operations, Bioscience Production

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



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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	µg/mL	Gravimetric	
			+/- 0.3910	µg/mL	Unstressed	
			+/- 0.5461	µg/mL	Stressed	
2	beta-BHC CAS # 319-85-7 (Lot SL210106) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
3	delta-BHC CAS # 319-86-8 (Lot 8-TAH-175-1) Purity 98%	8.0 µg/mL	+/- 0.1453	µg/mL	Gravimetric	
			+/- 0.3910	µg/mL	Unstressed	
			+/- 0.5461	µg/mL	Stressed	
4	Aldrin CAS # 309-00-2 (Lot 12044700) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
5	Heptachlor epoxide (isomer B) CAS # 1024-57-3 (Lot 11129300) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
6	trans-Chlordane CAS # 5103-74-2 (Lot 32095) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
7	cis-Chlordane CAS # 5103-71-9 (Lot 31707) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	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)

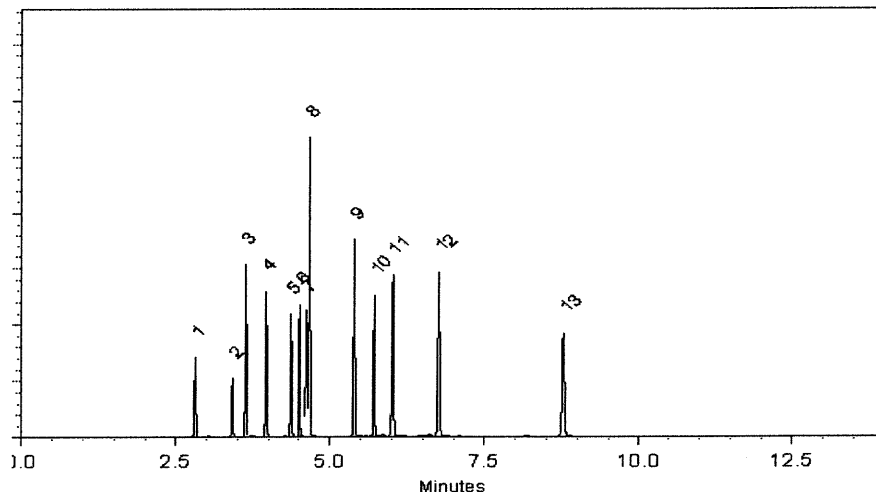
Carrier Gas:
helium-constant pressure 20 psi.

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

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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)

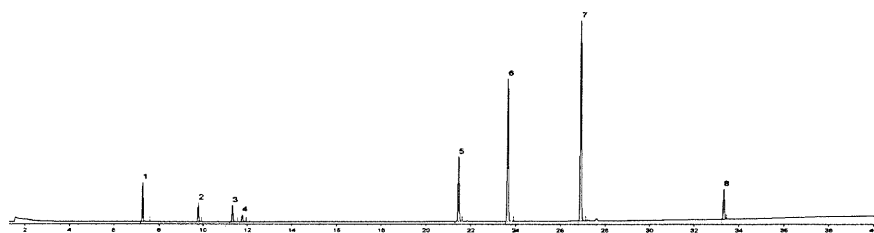
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
200°C

Det. Temp:
300°C

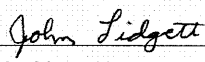
Det. Type:
ECD



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/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.



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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)

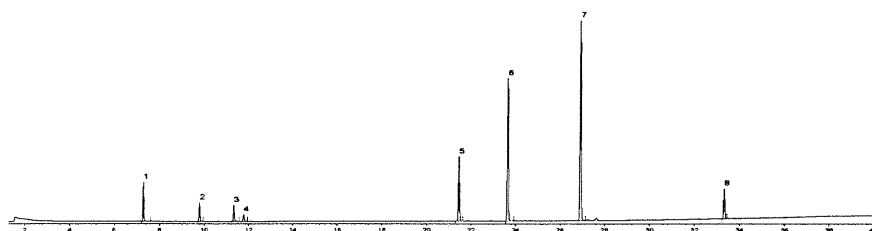
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
200°C

Det. Temp:
300°C

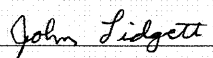
Det. Type:
ECD



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 - 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/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.



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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. : 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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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)

[Signature]
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:

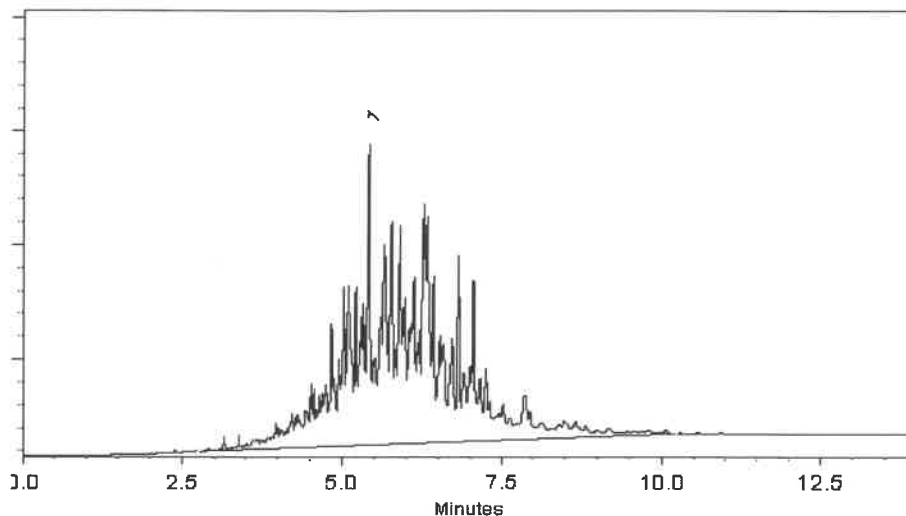
ECD

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
↓
P13369
↓
(12)


05-06-2024



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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:

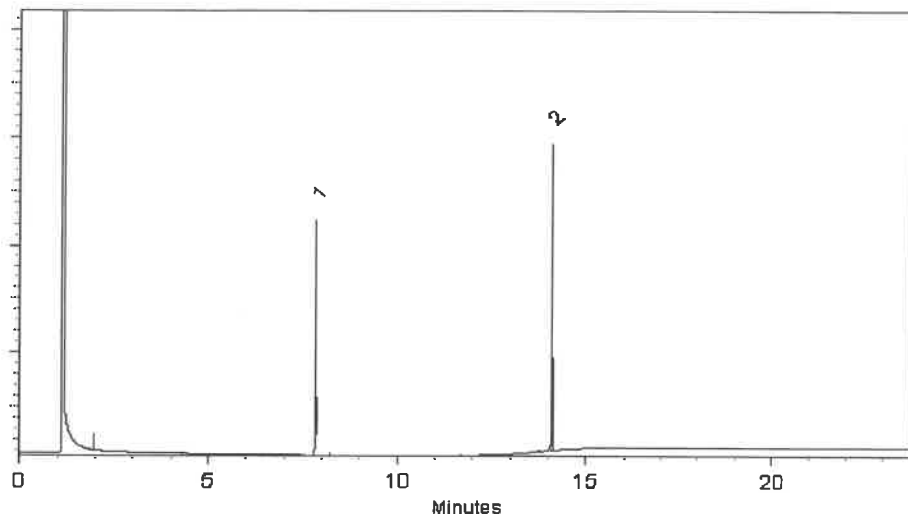
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

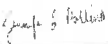


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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
UR
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)

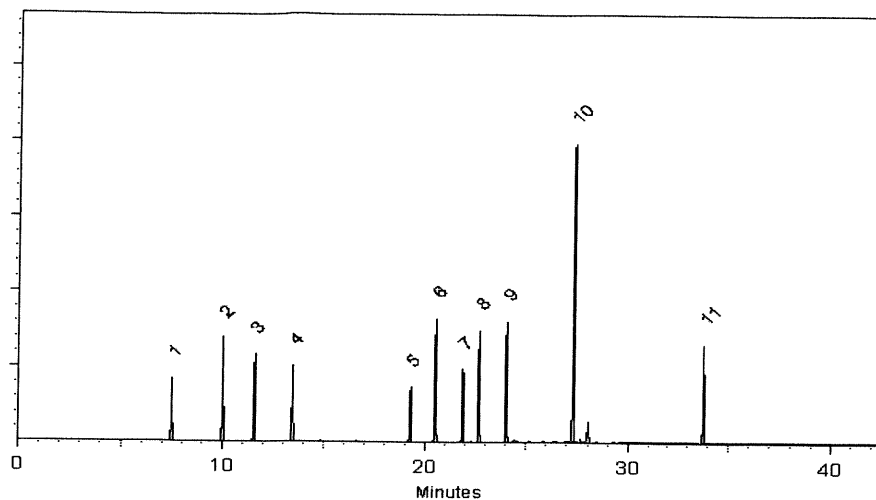
Carrier Gas:
helium-constant pressure 20 psi.

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

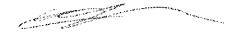
Inj. Temp:
200°C

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

CHAIN OF CUSTODY RECORD

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

www.chemtech.net

Chemtech Project Number

COC Number

Q 10.60

CLIENT INFORMATION

Report to be sent to:

Report to be sent to:

COMPANY: CHEMTECH
ADDRESS: 284 S. 9th Street
CITY: Mount Pleasant STATE: AL ZIP: 36092
ATTENTION: QA Officer
PHONE: 908-749-8800 FAX: 908-749-8955
DATA TRANSMISSION

PROJECT INFORMATION

PROJECT INFORMATION

PROJECT NAME: Weekly Storage Blanket

PROJECT #: _____

PROJECT MANAGER: _____

LOCATION: AET

E-MAIL: _____

PHONE: _____

BILLING INFORMATION

BILLING INFORMATION

BILL TO: SAME

ADDRESS: POB

CITY:

ATTENTION: STATE

PHONE: ZIP:

DATA TURNAROUND INFORMATION

TURNAROUND INFORMATION

FAX FILING
HARDOOPY DATA PACKAGE: 3 DAYS*
EED: _____ DAYS*
TO BE APPROVED BY CHEMTECH _____ DAYS*
STANDARD HARDOOPY TURNAROUND TIME IS 10 BUSINESS DAYS

CHEMTECH

DATA DELIVERABLE
INFORMATION

Level 1 (Results Only)
☐ **Level 2 (Results + CC)**
☐ **Level 3 (Results + CC +**
Flow Data)
☐ **EDD FORMAT**

☐ **Level 4 (CC + Full Flow Data)**
☐ **NJ Reduced**
☐ **NYS ASP A**
☐ **Other**

☐ **UB EACL P**
☐ **NYS ASP S**

ANALYSIS

ANALYSIS
STRUCTURAL

1697 PRESERVATIVES

COMMENTS

← Specify Extent of Use

A-HCI	D-MOH
B-HNO3	E-ICE
C-H2SO4	F-OTHER

SAMPLE IDENTIFICATION		SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION	
			CONF	QMS	DATE	TIME
1.	PEST-GR2-BLANK	SO		X		
2.	PEST-GR2-BLANK-SPIKE	SO		X		
3.	PCB-GR2-BLANK	SO		X		
4.	PCB-GR2-BLANK-SPIKE	SO		X		
5.				X		
6.				X		
7.						
8.						
9.						
10.						

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW

DATE/TIME

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

SAMPLE	DATE/TIME	RECEIVED BY
37	01/10/25	1.
	DATE/TIME	RECEIVED BY
		2.

Condition of bottles at receipt: ☒ COMPLAINT ☐ NON COMPLAINT ☐ COOLING TRAY

Comments:

SAMPLE IN CUSTODY MUST BE DOCUMENTED BELOW		
1. <i>SEM</i>	DATE/TIME <i>01/10/25</i>	RECEIVED BY
2.	DATE/TIME	RECEIVED BY
3.	DATE/TIME	RECEIVED FOR LAB BY

Conditions of bodies of evidence at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP. 6.8
 Comments: _____

Page 2 of 2

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

YELLOW - CHEMTech COPY

PINK - SAMPLER COPY

Shipment Complete
☒ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

10/20/18



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