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ANALYSIS: OrganoChlorine Pesticide METHOD NO.: 8081B - TISSUE

ARDL Report(s) #: 6615 MATRIX: TISSUE

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	By:	Date:
Package Preparation	las	05-01-14
Analytical Review	BS	05/06/14
Final Review	GO	5/8/14
QA Review	AS	5/9/14

Rev. 1.1

Organic Package Review Checklist

Rev. 1.1

ORGANIC PACKAGE REVIEW CHECKLIST

METHOD: 8081B Tissue

	Initial	Date
Case Narrative and/or Nonconformance Reports		
Case Narrative / Analyst Comment Sheets	[illegible]	05/06/14
Nonconformance / Noncompliance Reports (if applicable)	NA	
Sample Receipt Information		
Copies of Original Chain-of-Custody Forms	[illegible]	05/06/14
Cooler Receipt Form and Airbills		
Phone Messages (If applicable)		
Field Sample Results		
QC Summary Forms		
Surrogate Summary, if applicable		
Spike Blank and/or MS Summary		
Blank Results & Blank Summary, if applicable		
ISTD Area Summary, if applicable		
Sample Preparation Information (if applicable)		
Total Solids Determination (If applicable)		
Extraction Log (If applicable)		
Extraction Notebook Pages (If applicable)		
Spiking Solutions Notebook Pages		
MS/MSD's		
Surrogate/ISTDs		
Spiking Solutions Certificates Of Analyses		
MS/MSD's		
Surrogates/ISTDs		
Certificates of Analysis (Vendor)		
Standard Preparation Information		
Instrument Logs/Analysis Notebook Pages		
Certificates of Analysis (Vendor)		
Analytical Run Number 1		
Calibration Information		
Tune Data		
Initial Calibration		
Continuing Calibration		
Instrument Logs/Analysis Notebook Pages		
Blank/Sample/Field QC Data		
Analytical Run Number 2 (if required)	NA	
Calibration Information		
Tune Data		
Initial Calibration		
Continuing Calibration		
Instrument Logs/Analysis Notebook Pages		
Blank/Sample/Field QC Data		

Rev. 1.1

ORGANIC PACKAGE REVIEW CHECKLIST (Continued)

METHOD: 8081B Tissue

	Initial	Date
Analytical Run Number 3 (if required)		
Calibration Information	NA	
Tune Data		
Initial Calibration		
Continuing Calibration		
Instrument Logs/Analysis Notebook Pages		
Blank/Sample/Field QC Data		
Analytical Run Number 4 (if required)		
Calibration Information		
Tune Data		
Initial Calibration		
Continuing Calibration		
Instrument Logs/Analysis Notebook Pages		
Blank/Sample/Field QC Data		
Analytical Run Number 5 (if required)		
Calibration Information		
Tune Data		
Initial Calibration		
Continuing Calibration		
Instrument Logs/Analysis Notebook Pages		
Blank/Sample/Field QC Data		
Analytical Run Number 6 (if required)		
Calibration Information		
Tune Data		
Initial Calibration		
Continuing Calibration		
Instrument Logs/Analysis Notebook Pages		
Blank/Sample/Field QC Data		
Example Calculation		
Example Calculation Sheet	BJ	05/06/14
Miscellaneous Additional Data (if applicable)		

NA = Not Applicable

I have checked this package for completeness and verify the following:

1. Pencils, whiteout, whiteout tape, and dark highlighters were not used.
2. All notebook pages are signed.
3. All corrections contain the original data "struck through" with initials and date.
4. All comments found throughout the data are defined as required.
5. All pages are legible.
6. Manual integrations, if applicable, are printed out and include an explanation with signature of the analyst and date.

Package Completeness Checked By/Date: BJ 05/06/14

Rev. 1.1

Case Narrative and/or Nonconformance Reports

Rev. 1.1

ORGANIC ANALYSIS CASE NARRATIVE

Corps of Engineers – ERDC, Vicksburg **Date: 05/02/14**

ARDL Report No.: 6615 **Lab Name: ARDL, Inc.**

Project Name: MAKAU MILITARY RESERVATION OAHU (SEA CUCUMBER)

Samples Received at ARDL: 03/14/2014

Lab ID No.	Sample ID No.	Date Collected	Date Extracted	Analysis Requested
006615-01	MAK111C	01/31/2014	03/26/2014	OCP
006615-02	MAK113C	01/31/2014	03/26/2014	OCP
006615-03	MAK114C	01/31/2014	03/26/2014	OCP
006615-04	MAK115C	01/31/2014	03/26/2014	OCP
006615-05	MAK116C	01/31/2014	03/26/2014	OCP
006615-06	MAK117C	01/31/2014	03/26/2014	OCP
006615-07	MAK118C	01/31/2014	03/26/2014	OCP
006615-08	MAK120C	02/11/2014	03/26/2014	OCP

ORGANOCHLORINE PESTICIDES FRACTION – METHOD 8081B

Eight (8) tissue (sea cucumber) samples were received by ARDL, Inc. on March 14, 2014, for OCP analysis. An abbreviated target list was requested for these analyses.

Due to sample matrix, 5.0 grams of sample were extracted. Method detection and reporting limits have been adjusted accordingly.

All samples were put through the Gel Permeation Cleanup procedure.

INITIAL CALIBRATION

The initial calibration was performed using a minimum of six (6) calibration points and met all criteria.

CONTINUING CALIBRATION

Continuing calibration was performed after the analysis of 10 samples or less. All calibration criteria were met.

SURROGATES

These samples were spiked with surrogate at a level of 40 ug/Kg. All samples met surrogate recovery criteria.

INTERNAL STANDARD

Not applicable.

LCS

The LCS samples were spiked at a concentration of 40 ug/Kg. The LCS samples met recovery criteria.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The MS/MSD was performed on sample MAK116C. The MS/MSD was spiked at a concentration of 40 ug/Kg and met recovery criteria.

METHOD BLANKS

No target analytes were detected in the method blank above the method limit .

ORGANIC ANALYSIS CASE NARRATIVE

Corps of Engineers – ERDC, Vicksburg **Date: 05/02/14**

ARDL Report No.: 6615 **Lab Name: ARDL, Inc.**

Project Name: MAKAU MILITARY RESERVATION OAHU (SEA CUCUMBER)

Samples Received at ARDL: 03/14/2014

ORGANIC DATA REPORTING QUALIFIERS

The following organic data reporting qualifiers are used as required.

ND- Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. This flag is used when estimating a concentration of a compound that meets identification criteria but the result is less than the quantitation or reporting limit but greater than the method detection limit.

P - This flag is used for any two column confirmation methodology when there is greater than 40% difference for detected concentrations between the two columns. The primary column value is reported on the Form 1 and flagged with a "P".

B - This flag is used when the analyte is found above the reporting limit in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Release of the data contained in this package has been authorized by the Technical Services Manager or his designee as verified by the following signature.

Dean S. Dickerson
Technical Services Manager

Sample Receipt Information

Rev. 1.1

Allgenal in 4411
dlc
3-14-14

ARDL, Inc

P.O. Box 1566, 400 Aviation Drive, Mount Vernon, Illinois 62864
Phone (618) 244-3235, Fax (618) 244-1149

CHAIN OF CUSTODY RECORD

Project
ARDL / Makau Military Reservation Oahu, Hawaii Project

SAMPLERS (Signature)

SAMPLE NUMBER	DATE	TIME	Comp	Grab	# of Containers	Purgeable Organics 8260B	Explosives 8330	OCPs 8081	SVCOs 8270C	Remarks or Sample Location (ARDL, Inc)	PRESERVATION: ICED	PRESERVATION: Specify Chemicals added and final pH if known
MAK111C	1/31/2014	1000		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK113C	1/31/2014	1120		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK114C	1/31/2014	1155		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK115C	1/31/2014	1300		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK116C	1/31/2014	1330		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK117C	1/31/2014	1435		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK118C	1/31/2014	1605		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK120C	2/11/2014	1030		x	1	x	x	x	x	Mokuleia Site - Sea Cucumber	x	
MAK120L	1/31/2014	1040		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK121L	1/31/2014	1130		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK122L	1/31/2014	1405		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK123L	1/31/2014	1455		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK124L	1/31/2014	1540		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK126L	1/31/2014	1615		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK127L	2/11/2014	1304		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK128L	2/11/2014	1415		x	1	x	x	x	x	Mokuleia Site - Limu	x	
MAK116L	1/31/2014	820		x	1	x	x	x	x	Maena Point Site - Limu	x	
MAK117L	1/31/2014	835		x	1	x	x	x	x	Maena Point Site - Limu	x	
MAK118L	1/31/2014	910		x	1	x	x	x	x	Maena Point Site - Limu	x	

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
[signature]	3/13/14	1600	
Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
Received for Laboratory by: (Signature)	Date	Time	Shipping Ticket No.
[signature]	3/14/14	0915	

REMARKS / SPECIAL INSTRUCTIONS:

Project Samples. Please treat each matrix separately.

Please send level 4 hardcopy report and excel edd to: Dean Dickerson, c/o ARDL, Inc. 400 Aviation Drive, Mount Vernon, IL 62864. Email questons to ddickerson@ardlinc.com.

COOLER RECEIPT REPORT
ARDL, INC.

Migrated in 6617 dlc 3-14-14

ARDL #: 6615-6617

Cooler # 660

Number of Coolers in Shipment: 1

Project: MAKAU MILITARY RESERVATION oahu

Date Received: 3-14-14

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler was opened: 3-14-14 (Signature) L D Cochrum

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO

   If YES, enter carrier name and airbill number here: fed-ex 9325 1888 1273

2. Were custody seals on outside of cooler? ..... YES NO N/A

   How many and where? 1 (front), Seal Date: 3-13-14, Seal Name: ? Can't read

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (YES) NO

5. Were custody papers sealed in a plastic bag ~~and taped inside to the lid~~? dlc 3/14/14 ..... (YES) NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO N/A

7. Were custody papers signed in appropriate place by ARDL personnel? ..... (YES) NO N/A

8. Was project identifiable from custody papers? If YES, enter project name at the top of this form ..... (YES) NO N/A

9. Was a separate container provided for measuring temperature? YES ____ NO ✓ Cooler Temp. 1.4 C

B. **LOG-IN PHASE:** Date samples were logged-in: 3-14-14 (Signature) L D Cochrum

10. Describe type of packing in cooler: bubble pack / bubble bags

11. Were all bottles sealed in separate plastic bags? not sealed ..... YES NO N/A

12. Did all bottles arrive unbroken and were labels in good condition? ..... YES (NO)

13. Were bottle labels complete? ..... (YES) NO

14. Did all bottle labels agree with custody papers? ..... (YES) NO

15. Were correct containers used for the tests indicated? ..... (YES) NO

16. Was pH correct on preserved water samples? ..... YES NO (N/A)

17. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO

18. Were bubbles absent in VOA samples? If NO, list by sample #: ____ YES NO (N/A)

19. Was the ARDL project coordinator notified of any deficiencies? ..... (YES) NO N/A

Comments and/or Corrective Action:
(2) MAK 114C - lid broken / seal intact
MAK 127L - lid broken / seal not intact.
MAK 116L - lid broken / seal intact
MAK 117C - lid broken / seal intact
MAK 122L - lid broken / seal intact
(By: Signature) dlc Date: 3-14-14

Sample Transfer	
Fraction: All	Fraction:
Area #: freezer	Area #:
By: dlc	By:
On: 3-14-14	On:

M:\ADMIN\FORMS\COOLER RECEIPT REPORT.doc Rev. 05/07/07

Original in 6617
dlc
3-14-14

ORIGIN ID:GRBA (920) 469-2436
SHIPPING
PACE ANALYTICAL
1241 BELLEVUE

GREEN BAY, WI 54302
UNITED STATES US

SHIP DATE: 13MAR14
ACTWGT: 42.0 LB MAN
CAD: 255289/CAFE2704

DRY ICE: 2.3 KGS
BILL THIRD PARTY

TO DONNA COCKRUM
ARDL
400 AVIATION DRIVE
P.O BOX 1566
MOUNT VERNON IL 62864
(618) 244-3236
INV:
PO: REF:
DEPT:

51BC1/CC4F/6F03

FedEx Express

J131113085230126

FRI - 14 MAR AA
STANDARD OVERNIGHT

TRK# 0201 9325 1888 1273

ICE

NA MVNA

62864
IL-US STL

Part # 156148-434 RIT2 03/12

Field Sample Results

Rev. 1.1

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK111C	ARDL Lab No.:	006615-01
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1000	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	78%
Decachlorobiphenyl	25-125	99%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-01, CHLORINATED PESTICIDES (8081) Page 1 of 1

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK113C	ARDL Lab No.:	006615-02
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1120	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	98%
Decachlorobiphenyl	25-125	122%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-02, CHLORINATED PESTICIDES (8081) Page 1 of 1

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK114C	ARDL Lab No.:	006615-03
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1155	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	61%
Decachlorobiphenyl	25-125	67%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-03, CHLORINATED PESTICIDES (8081) Page 1 of 1

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK115C	ARDL Lab No.:	006615-04
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1300	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.02 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	ND		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	ND		UG/KG	1
delta-BHC	3.98	3.98	ND		UG/KG	1
Heptachlor	3.98	3.98	ND		UG/KG	1
Aldrin	3.98	3.98	ND		UG/KG	1
Heptachlor Epoxide	3.98	3.98	ND		UG/KG	1
p,p'-DDT	3.98	3.98	ND		UG/KG	1
beta-BHC	3.98	3.98	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	101%
Decachlorobiphenyl	25-125	111%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-04, CHLORINATED PESTICIDES (8081) Page 1 of 1

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK116C	ARDL Lab No.:	006615-05
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1330	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.03 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	ND		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	ND		UG/KG	1
delta-BHC	3.98	3.98	ND		UG/KG	1
Heptachlor	3.98	3.98	ND		UG/KG	1
Aldrin	3.98	3.98	ND		UG/KG	1
Heptachlor Epoxide	3.98	3.98	ND		UG/KG	1
p,p'-DDT	3.98	3.98	ND		UG/KG	1
beta-BHC	3.98	3.98	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	61%
Decachlorobiphenyl	25-125	77%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-05, CHLORINATED PESTICIDES (8081) Page 1 of 1

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK117C	ARDL Lab No.:	006615-06
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1435	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.04 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.97	3.97	ND		UG/KG	1
gamma-BHC (Lindane)	3.97	3.97	ND		UG/KG	1
delta-BHC	3.97	3.97	ND		UG/KG	1
Heptachlor	3.97	3.97	ND		UG/KG	1
Aldrin	3.97	3.97	ND		UG/KG	1
Heptachlor Epoxide	3.97	3.97	ND		UG/KG	1
p,p'-DDT	3.97	3.97	ND		UG/KG	1
beta-BHC	3.97	3.97	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	69%
Decachlorobiphenyl	25-125	86%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK118C	ARDL Lab No.:	006615-07
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1605	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.03 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	ND		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	ND		UG/KG	1
delta-BHC	3.98	3.98	ND		UG/KG	1
Heptachlor	3.98	3.98	ND		UG/KG	1
Aldrin	3.98	3.98	ND		UG/KG	1
Heptachlor Epoxide	3.98	3.98	ND		UG/KG	1
p,p'-DDT	3.98	3.98	ND		UG/KG	1
beta-BHC	3.98	3.98	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	51%
Decachlorobiphenyl	25-125	70%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-07, CHLORINATED PESTICIDES (8081) Page 1 of 1

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK120C	ARDL Lab No.:	006615-08
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	02/11/2014	Received Date:	03/14/2014
Sample Time:	1030	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	53%
Decachlorobiphenyl	25-125	75%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-08, CHLORINATED PESTICIDES (8081) Page 1 of 1

QC Summary Forms

Surrogate Summary, if applicable

Spike Blank and/or MS Summary

Blank Results & Blank Summary, if applicable

ISTD Area Summary, if applicable

Rev. 1.1

BLANK SPIKE/SPIKE DUPLICATE REPORT

ARDL, INC. 400 Aviation Drive; P.O. Box 1566 Mt. Vernon, IL 62864

Lab Report No: 006615

Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O
Project No.:

Analysis: CHLORINATED PESTICIDES (8081)

Analytical Method: 8081B
Prep Method: 3550A

Matrix: QC Material
Amount Used: 5 g

QC Batch: B10175
Level: LOW

Prep. Date: 03/26/2014
Analysis Date: 04/29/2014

Parameter	Spike Result	Spike Level	Spike % Rec	Duplicate Result	Duplicate Level	Duplicate % Rec	Recovery Limits	RPD	RPD Limit
alpha-BHC	27.5	40	69	--	--	--	53-113	--	--
gamma-BHC (Lindane)	30.2	40	75	--	--	--	53-107	--	--
delta-BHC	28.5	40	71	--	--	--	46-121	--	--
Heptachlor	32.2	40	81	--	--	--	44-114	--	--
Aldrin	29.4	40	73	--	--	--	49-102	--	--
Heptachlor Epoxide	31.2	40	78	--	--	--	54-110	--	--
p,p'-DDT	34	40	85	--	--	--	52-116	--	--
beta-BHC	36.4	40	91	--	--	--	46-121	--	--

SURROGATE RECOVERIES:	Spike %R	Duplicate %R	%R Limits
Tetrachloro-m-xylene	114.7	--	25-125
Decachlorobiphenyl	118.7	--	25-125

'*' indicates a recovery outside of standard limits.

Spike Blanks for 006615-05, CHLORINATED PESTICIDES (8081)

MATRIX SPIKE/SPIKE DUPLICATE REPORT

ARDL, INC. 400 Aviation Drive; P.O. Box 1566 Mt. Vernon, IL 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081) Analytical Method: 8081B
Project No.: Prep Method: 3550A

Field ID:	MAK116C	Prep. Date:	03/26/2014	ARDL Lab No.:	006615-05
Desc/Location:	MAKAU MILITARY RES OAHU	Amount Used:	5.03 g	Lab Filename:	
Sample Date:	01/31/2014	% Moisture:	No Moisture Present	Received Date:	03/14/2014
Sample Time:	1330	QC Batch:	B10175	Analysis Date:	04/29/2014
Matrix:	TISSUE	Level:	LOW		

Parameter	Sample Result	MS Result	MS Level	MS % Rec	MSD Result	MSD Level	MSD % Rec	% Rec Limits	RPD	RPD Limit
alpha-BHC	ND	24.8	39.8	62.4	26.5	39.8	66.6	45-113	6.8	25
gamma-BHC (Lindane)	ND	23.9	39.8	60	26.3	39.8	65.9	51-112	9.6	25
delta-BHC	ND	21.7	39.8	54.5	24.3	39.8	61	48-118	11.4	25
Heptachlor	ND	25.4	39.8	63.9	26.2	39.8	65.9	52-114	3.3	25
Aldrin	ND	21.8	39.8	54.9	22.3	39.8	55.9	51-111	2.1	25
Heptachlor Epoxide	ND	23.3	39.8	58.7	25.8	39.8	64.8	53-110	10.2	25
p,p'-DDT	ND	29.6	39.8	74.3	31.2	39.8	78.4	55-122	5.5	25
beta-BHC	ND	27.1	39.8	68.2	33.6	39.8	84.4	50-111	21.4	25

SURROGATE RECOVERIES:	MS %R	MSD %R	%R Limits
Tetrachloro-m-xylene	82	76	25-125
Decachlorobiphenyl	98	100	25-125

'nc' indicates sample >4X spike level.
'*' indicates a recovery outside of standard limits.
Matrix Spikes for 006615-05, CHLORINATED PESTICIDES (8081)

METHOD BLANK REPORT
ARDL, Inc. 400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	NA	ARDL Lab No.:	006615-05B1
Desc/Location:	NA	Lab Filename:	
Sample Date:	NA	Received Date:	NA
Sample Time:	NA	Prep. Date:	03/26/2014
Matrix:	QC Material	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	NA	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units
alpha-BHC	4.00	4.00	ND		UG/KG
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG
delta-BHC	4.00	4.00	ND		UG/KG
Heptachlor	4.00	4.00	ND		UG/KG
Aldrin	4.00	4.00	ND		UG/KG
Heptachlor Epoxide	4.00	4.00	ND		UG/KG
p,p'-DDT	4.00	4.00	ND		UG/KG
beta-BHC	4.00	4.00	ND		UG/KG

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	119%
Decachlorobiphenyl	25-125	125%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Blank for Run B10175, CHLORINATED PESTICIDES (8081) Page 1 of 1

Sample Preparation Information

(Not Applicable for VOA Purge and Trap Method)

Rev. 1.1

3550
8081 PEST Tissues

DATE : 03 / 26 / 2014 **BATCH # B10175**

CUST:Makau Military Reservation Oahu **ARDL # 6615**

SAMPLES: BLK, SP BLK, 6615-1 thru 8
QC SAMPLE: 6615-5ms/msd

SOLVENT USED: $MeCL_2$ # 0000068488 Hexane # 0000062582
REAGENTS USED: Na_2SO_4 # 0000066287

SURROGATE # 9002797 CONC 1 PPM __X__ AMOUNT 200 uL __X__

8080 SPIKE # 9002798 CONC 1 PPM __X__ AMOUNT 200 uL __X__

EXTRACTION METHOD: SONICATION ___X___ DILUTION _____ MED/LEV_____

FINAL VOLUME 1 mL

CLEAN-UP METHOD: GPC __X___ GPC CURVE DATE: 03 / 26 / 2014
FLORISIL _____ LOT #

EXTRACTION PERSONNEL: SMN, JAD, JWM

SPIKER: SMN **WITNESS: JAD**

SAMPLE #	WEIGHT / g	pH	Vf		SAMPLE #	WEIGHT / g	pH	Vf
BLK	5.00 g	-----	1 mL					
SP BLK	5.00 g	"	"					
6615-1	5.00 g	"	"					
6615-2	5.00 g	"	"					
6615-3	5.00 g	"	"					
6615-4	5.02 g	"	"					
6615-5	5.03 g	"	"					
6615-5ms	5.03 g	"	"					
6615-5msd	5.02 g	"	"					
6615-6	5.04 g	"	"					
6615-7	5.03 g	"	"					
6615-8	5.00 g	"	"					

RECEIVED BY: JRC **DELIVERED BY:** SMN

DATE: 3/27/14 DATE: 3/27/14

B10175 8081-Pesticides-Tissues

Sample I.D.	W_I	V_f	Date:	Time:
BLK	5.00 g	1 mL	3/26/14	10:30
SpBLK	5.00 g	1 mL		
6615-1	5.00 g	1 mL	Water Bath Temp: 97°C	
-2	5.00 g	1 mL		
-3	5.00 g	1 mL	GPC Curve Date: 3/26/14	
-4	5.02 g	1 mL		
-5(A)	5.03 g	1 mL		
-5MS(A)	5.03 g	1 mL		
-5MSD(A)	5.02 g	1 mL		
-6	5.04 g	1 mL		
-7	5.03 g	1 mL		
-8	5.00 g	1 mL		

All samples went thru GPC Cleanup.

All samples contain 200 µl of surrogate # 9002797 (1ppm).

SpBLK, MS, MSD contain 200 µl of spike # 9002798 (1ppm)

Solvents Used: $MeCl_2$ #000068488.
Hexane #0000~~0662~~ 62582.
SMN 3/26/14

Reagent Used: Na_2SO_4 #000006287.

Spiker SMN Witness JAD

Continued on Page

Read and Understood By

Steve Newcomb 3/26/14 Signed Date

Signed 3/26/14 Date

3/26/14

Position #	Sample I.D.	Batch #	Analysis
1	GPC Curve	—	—

Diluted 1mL of stnd. #200411-031312 from Absolute into 10mL of $MeCl_2$ (JTBaker# 0000068488). SMW

3/26/14

Position #	Sample I.D.	Batch #	Analysis
2	GPC BLK	—	Pesticide
3	BLK	B10175	
4	SpBLK		
5	6615-1		
6	-2		
7	-3		
8	-4		
9	-5		
10	-5MS		
11	-5MSD		
12	-6		
13	-7		
14	-8		

SMW

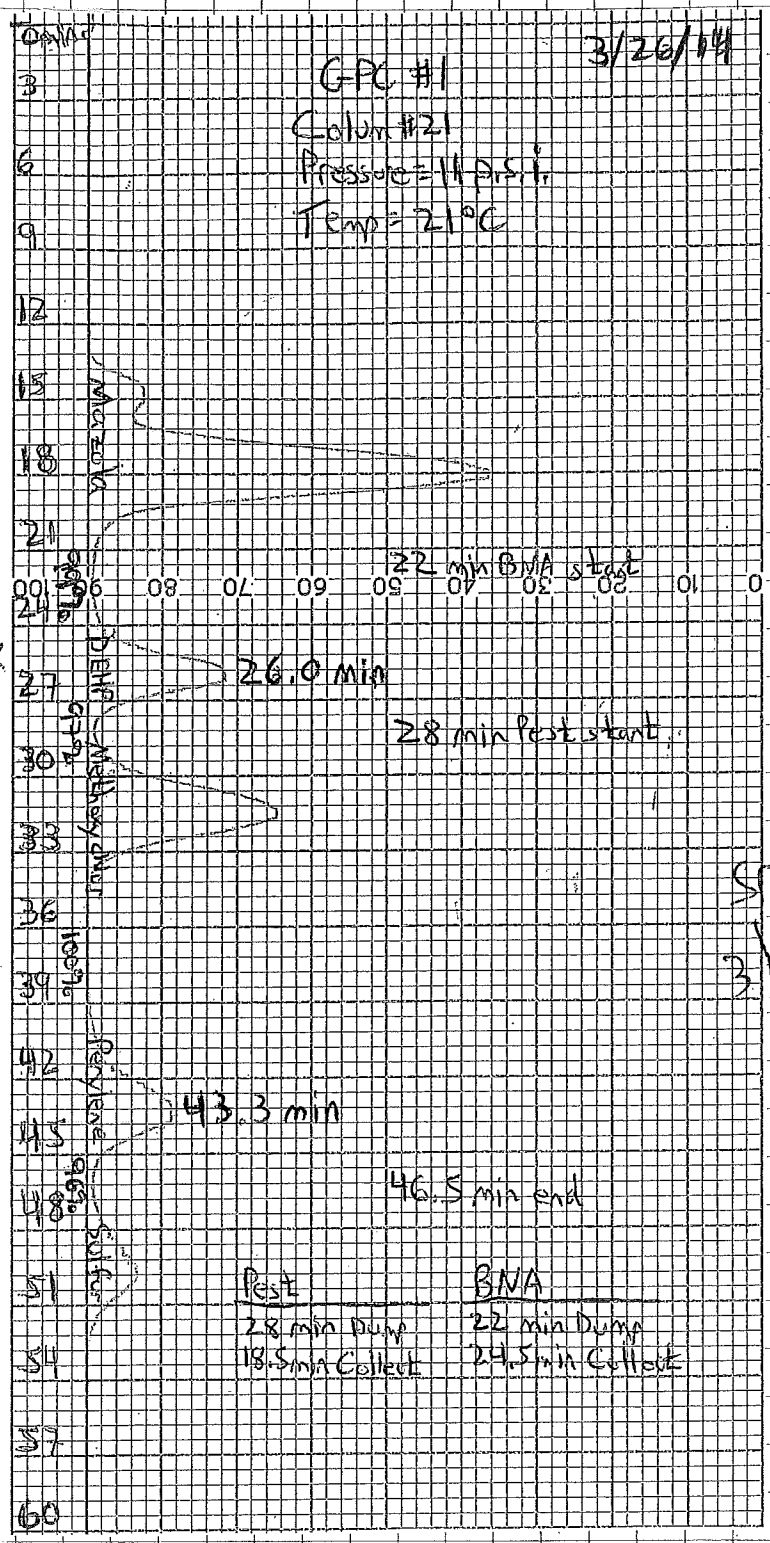
SMW
3/26/14

Continued on Page

Read and Understood By

Steve Newcomb — Signed — 3/26/14 Date

[illegible] — Signed — 3/26/14 Date



Continued on Page

Read and Understood By

Signed	Date	Signed	Date
Steve Newcomb	3/26/14		3/26/14

PROJECT

Continued From Page

9002795 PNA/SIM - Surrogate sol'n 1/15/14

Diluted 250 ul of stnd. #20006 (lot #050613, 1000 ug/mL, exp: 05/06/18) from Absolute into 5 mL of MeOH (Macron #0000044064). Final conc. = 50 ppm. Exp: 7/15/14 SMN

9002796 PNA/sim - Spike sol'n 1/15/14

Diluted 125 ul of stnd. #10017 (2000 ug/mL, lot #102511, exp: 11/25/16) from Absolute & 250 ul of stnd. #'s 16200-R (1000 ug/mL, exp: 5/15) & 16236-R (1000 ug/mL, exp: 12/15) into 25 mL of MeOH (Macron #0000044064). Final conc. = 10 ppm Exp: 7/15/14 SMN

9002797 Pest/PCB - Surrogate 2/6/14

Diluted 125 ul of stnd. # 20023 (lot #020212, 200 ug/mL, exp: 02/02/17) from Absolute into 25 mL of Acetone (JTBaker #0000059692). Final conc. = 1 ppm Exp: 5/6/14 SMN

SMN 2/12/14

Continued on Page

Read and Understood By

Steve Newcomb 2/12/14 Signed Date

JP 3/20/14 Signed Date

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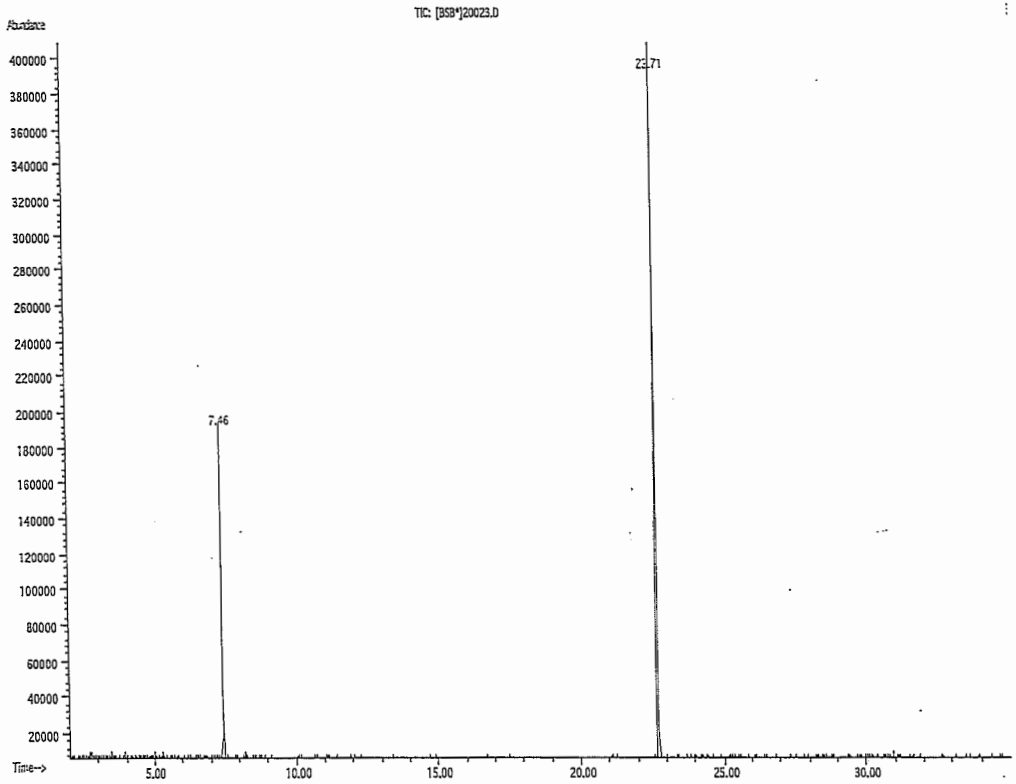
CERTIFIED WEIGHT REPORT

			Lot #
Part Number:	20023	**Solvent(s):**	K25E41 Acetone
Lot Number:	020212		
Description:	CLP Pesticide Surrogate Standard		
	2 components		
Expiration Date:	020217		
	Storage: 4 °C		
Nominal Concentration (µg/mL):	200		
		5E-05 Balance Uncertainty	
Weight(s) shown below were combined and diluted to:	500.0	0.058 Flask Uncertainty	

Formulated By:	Vincent K. Criscio, Jr.	020212 DATE
Reviewed By:	Pedro L. Rentas	020212 DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 2,4,5,6-Tetrachloro-m-xylene	273	052501	200	99.0	0.20	0.10102	0.10138	200.7	0.0042	00877-09-8	N/A	N/A
2. Decachlorobiphenyl (209)	103	33379-92	200	99.0	0.20	0.10102	0.10144	200.8	0.0042	02051-24-3	N/A	N/A



Method GC8MSD-7.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.

Name	MSD RT (min.)
2,4,5,6-Tetrachloro-m-xylene	7.45
Decachlorobiphenyl	22.70

9002798 Hawaii - Pesticide - Spike soln 3/4/14
Diluted 1mL of stnd. #1008158 (10 µg/mL, exp. 5/4/14) Exp: 6/4/14
into 10mL of Acetone (JTBaker #000005353). Final conc. = 1ppm SMW

3/20/14 SMW

Continued on Page

Read and Understood By

Steve Nuwan 3/20/14 GW 3/20/14
Signed Date Signed Date

PROJECT

Continued From Page

1008157-5 Pest Surr Stock

Part #: 20023 Laboratory Use Only - See MSDS
Lot #: 020212 Exp: 020217 Storage 4 °C
CLP - Pesticide Surrogate Spike Solution
2 components
200 ug/mL in acetone 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opend 2-24-14
exp 02/02/2017

JD 2/24/14

1008156A RC 3/4/14 OSP cal verification STD

0.3 mL STOCK 1008114 (10-40 ppm OSP) into 5 ml MeCl (Baker 63223)
= 0.6 ppm OSP (0.6-2.4 ppm)

exp 5-27-14 BC 2-27-14

1008157A RC 3/4/14 EVAL

STOCK 1007980 (exp 6-13-14) 1 (2) ppm EVAL

1 (2) ug/ml EVAL / 1.0 ml Hexane (Baker 43501) = 0.1 (0.2) ppm EVAL

exp 5-3-14 BC 3-3-14

1008158 HI - Pest Spike Soln. (Abs)

100 µL of	1008029	a BHC	1,000 ppm	exp. 09/2017
	1008030	b-BHC		09/2015
	8031	d-BHC		06/2015
	8032	Lindane		03/2017
	8033	Aldrin		06/2018
	8034	4,4-DDT		06/2018
	8035	Heptachlor		06/2015
100 µL	1008036	Hept Epoxide	1,000 ppm	exp 03/2017

To Vol. Acetone

10.0 mL of 10.0 µg/mL JD 3/4/14 exp. 6/4/14

Continued on Page

Read and Understood By

JD 3/4/14 Signed Date

RC 3/10/14 Signed Date

1008029 Alpha - BHC

Part #: 79016 Laboratory Use Only - See MSDS
Lot #: 092712 Exp: 092717 Storage 4 °C
a-BHC
1000 ug/mL in hexane 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/13 RDS

1008030 Beta - BHC

Part #: 79175 Laboratory Use Only - See MSDS
Lot #: 092712 Exp: 092715 Storage 4 °C
beta-BHC
1000 ug/mL in acetone 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/13 RDS

1008031 Delta - BHC

Part #: 79048 Laboratory Use Only - See MSDS
Lot #: 061710 Exp: 061715 Storage 4 °C
d-BHC
1000 ug/mL in hexane 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/13 RDS

1008032 Gamma - BHC (Lindane)

Part #: 79049 Laboratory Use Only - See MSDS
Lot #: 030212 Exp: 030217 Storage 4 °C
gamma-BHC
[Lindane]
1000 ug/mL in hexane 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/13 RDS

1008033 Aldrin

Part #: 79015 Laboratory Use Only - See MSDS
Lot #: 062413 Exp: 062418 Storage 4 °C
Aldrin
1000 ug/mL in hexane 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/13 RDS

Continued on Page

Read and Understood By

RDS — Signed — 10/22/13 — Date

JK — Signed — 10/28/13 — Date

PROJECT

Continued From Page

1008034 4,4'-DDT

Part #: 79018 Laboratory Use Only - See MSDS
Lot #: 062413 Exp: 062418 Storage 4 °C
4,4'-DDT
1000 ug/mL in hexane 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/13 DS

1008035 HEPTACHLOR

Part #: 79022 Laboratory Use Only - See MSDS
Lot #: 061710 Exp: 061715 Storage 4 °C
Heptachlor
1000 ug/mL in hexane 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/13 DS

1008036 HEPTACHLOR EPOXIDE

Part #: 79050 Laboratory Use Only - See MSDS
Lot #: 030212 Exp: 030217 Storage 4 °C
Heptachlor epoxide
(Isomer B)
1000 ug/mL in hexane 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 10/22/17 DS

1008037 PEST STOCK/SPIKE (HAWAII)

1008029	1000 ppm	a-BHC	exp	09/27/17
1008030		b-BHC	exp	09/22/15
1008031		d-BHC	exp	06/17/15
1008032		Lindane	exp	03/02/17
1008033		Aldrin	exp	06/24/18
1008034		4,4'-DDT	exp	06/24/18
1008035		Heptachlor	exp	06/17/15
1008036		Heptachlor Epoxide	exp	03/02/17

1000 ug/ml x 0.1 ml of each / 10 ml Acetone (Baker K51E12) = 10 ppm

exp 01/22/14 DS 10/22/13

DS 10/22/13

Continued on Page

Read and Understood By

DS 10/22/13 GM 10/28/13

Signed Date Signed Date

CERTIFIED WEIGHT REPORT

Part Number:	79016	**Solvent(s):**	Lot # K38E41	Hexane
Lot Number:	092712			
Description:	a-BHC			
Expiration Date:	092717			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

Formulated By: Paul Barron 092712 DATE

Reviewed By: Pedro L. Rentas 092712 DATE

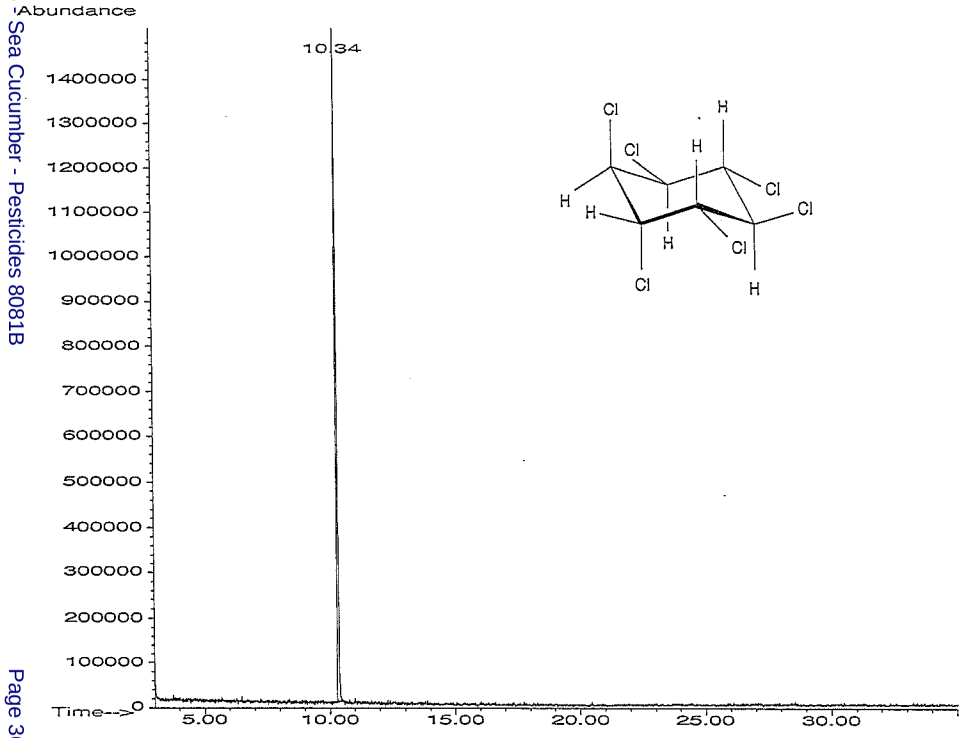
Weight(s) shown below were combined and diluted to: 25.0 0.002 Flask Uncertainty; 5E-05 Balance Uncertainty

MSDS Information
(Solvent Safety Info. On Attached pg.)

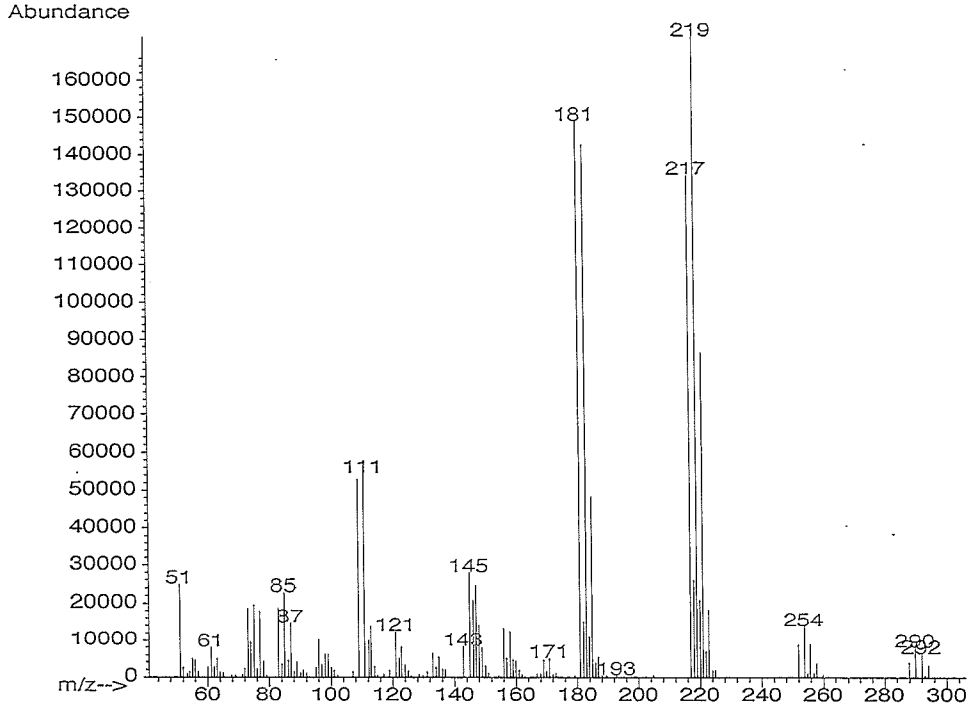
	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1.	a-BHC	38	27275-15	1000	99	0.2	0.02525	0.02527	1000.9	0.00566	00319-84-6	N/A	orl-rat 177mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Nicole Davis.

TIC: 79016.D



Scan 567 (10.329 min): 79016.D



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CERTIFIED WEIGHT REPORT

Part Number:	79175	**Solvent(s):**	Lot # K42E09	Acetone
Lot Number:	092712			
Description:	b-BHC			
Expiration Date:	092715			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

Weight(s) shown below were combined and diluted to: 25.0 — 5E-05 Balance Uncertainty, 0.002 Flask Uncertainty

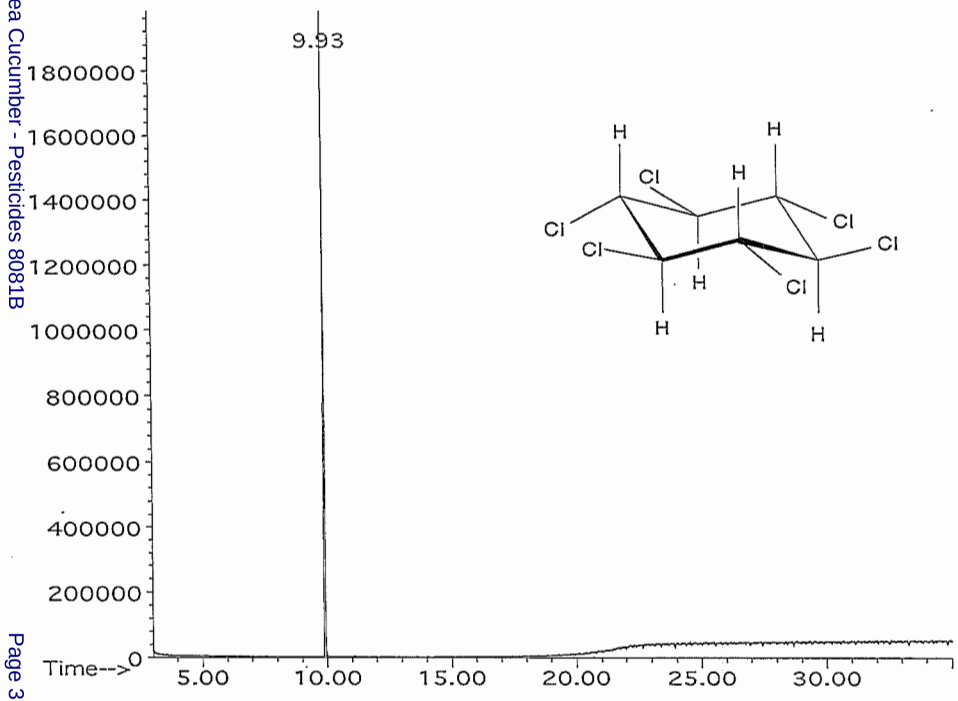
Formulated By:	Bryan Njeba	092712 DATE
Reviewed By:	Pedro L. Rentas	092712 DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

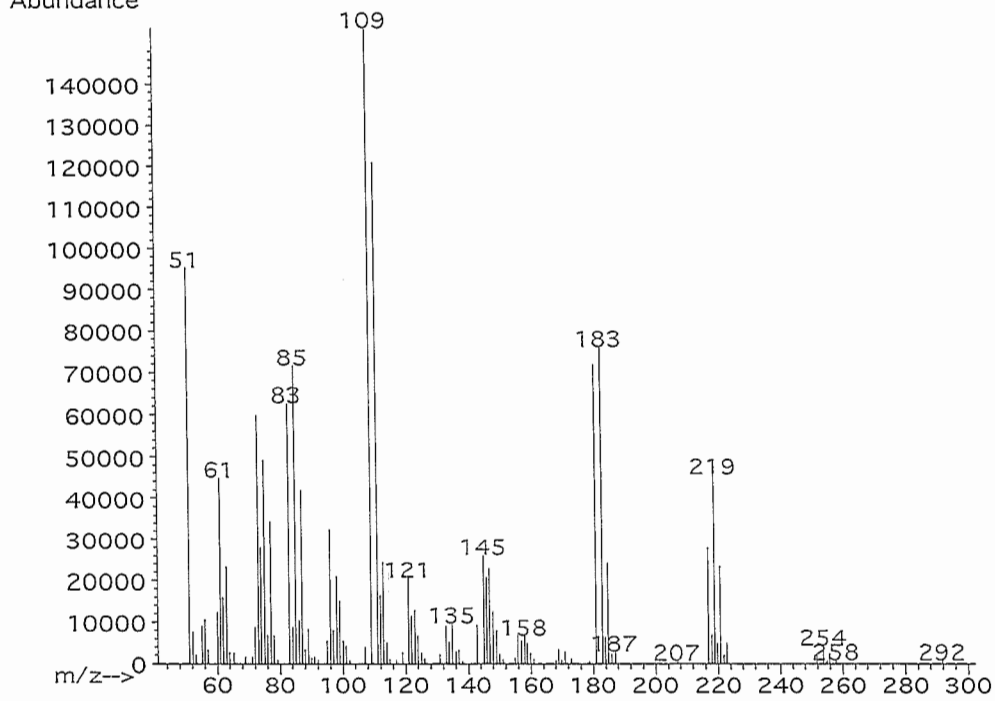
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. b-BHC	39	ER052506-01	1000	99	0.2	0.02525	0.02526	1000.5	0.00566	00319-85-7	N/A	orl-rat 6000mg/kg

Method GC7MSD-1.M: Column: DB-35MS (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Gina McLane

TIC: 79175.D



Scan 505 (9.917 min): 79175.D



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Certified Reference Material CRM

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ISO 17025-34[illegible]-43 Accredited
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CERTIFIED WEIGHT REPORT

Part Number:	79048	**Solvent(s):**	Lot # H33E08	Hexane
Lot Number:	061710			
Description:	d-BHC			
Expiration Date:	061715			
Storage:	4 °C			
Nominal Concentration (µg/mL):	1000			

5E-05 Balance Uncertainty

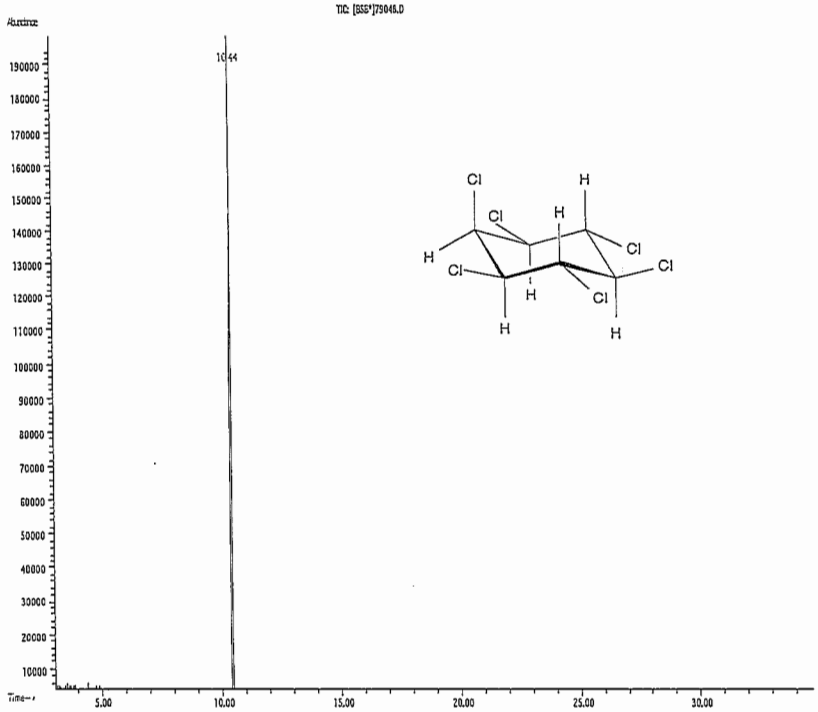
Weight(s) shown below were combined and diluted to: 25.0 0.004 Flask Uncertainty

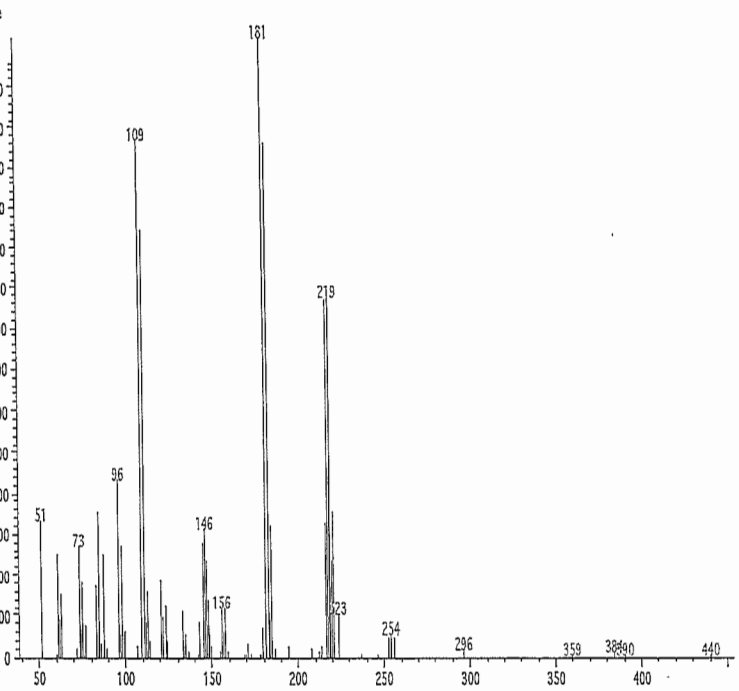
Formulated By:	Justin Dippold	061710 DATE
Reviewed By:	Pedro L. Rentas	061710 DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. d-BHC	40	ER051805-01	1000	99	0.2	0.02527	0.02535	1003.1	0.00566	00319-86-8	N/A	orl-rat 1000mg/kg

Method GC8MSD-7.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





CERTIFIED WEIGHT REPORT

Part Number:	79049	**Solvent(s):**	Lot # K38E41	Hexane
Lot Number:	030212			
Description:	g-BHC (Lindane)			
Expiration Date:	030217			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

Formulated By: Vincent K. Criscio, Jr. DATE 030212

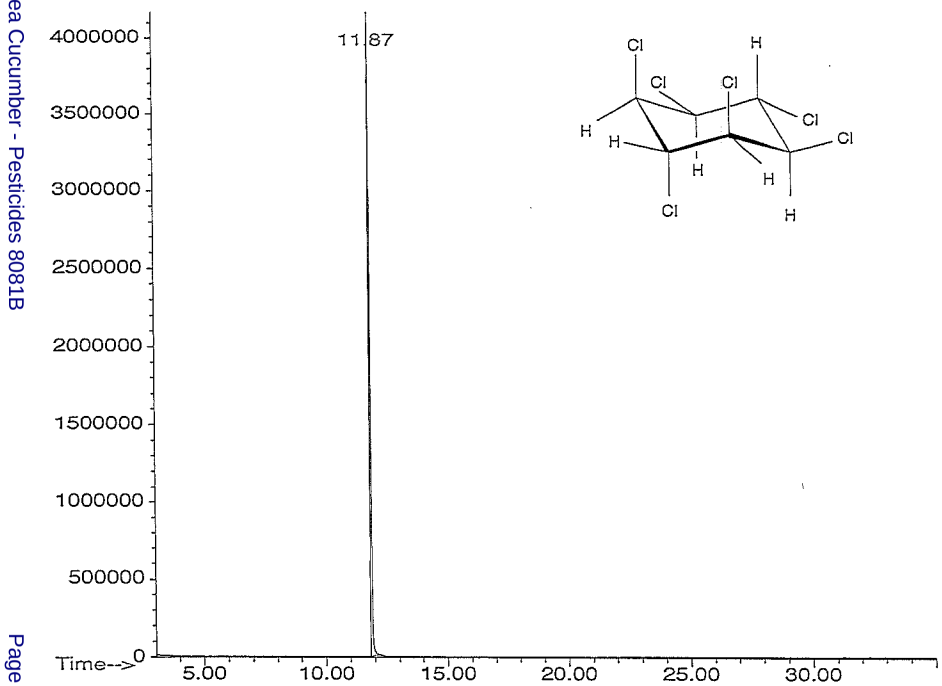
Reviewed By: Pedro L. Rentas DATE 030212

Weight(s) shown below were combined and diluted to: 25.0 0.002 Flask Uncertainty 5E-05 Balance Uncertainty

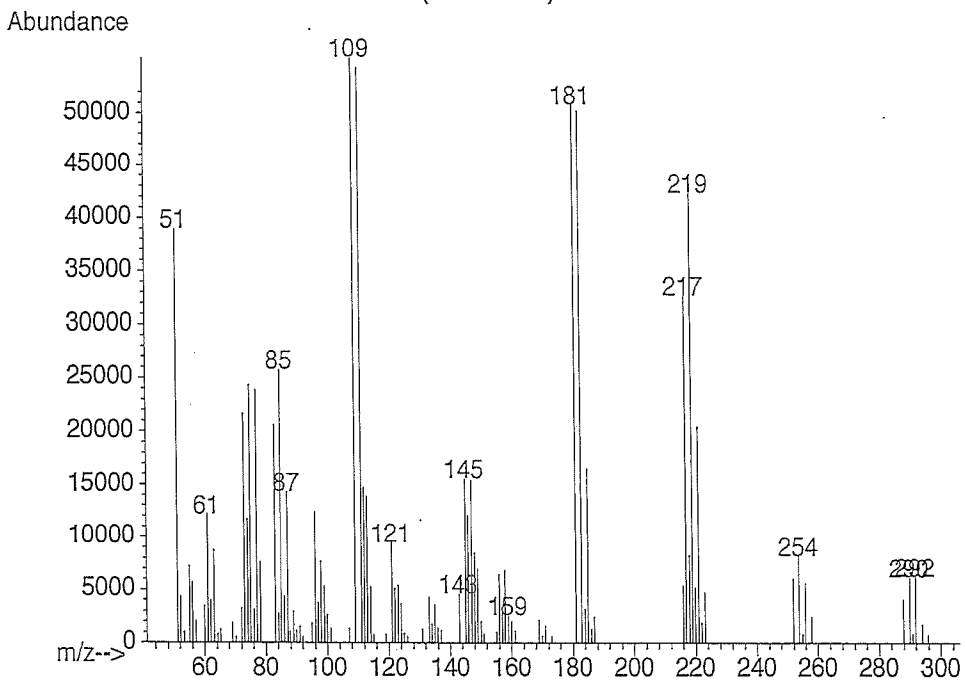
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. g-BHC (Lindane)	41	46601	1000	99	0.2	0.02525	0.02531	1002.5	0.0057	00058-89-9	0.5mg/m3 (skin)	orl-rat 76mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Nicole Poisson.

TIC: 79049.D



Scan 689 (11.892 min): 79049.D



Report Number 6615 - Sea Cucumber - Pesticides 8081B Page 39 of 290

CERTIFIED WEIGHT REPORT

Part Number:	79015	**Solvent(s):**	Lot # 11493	Hexane
Lot Number:	062413			
Description:	Aldrin			
Expiration Date:	062418			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

Gabriel Helland 062413
Formulated By: Gabriel Helland DATE

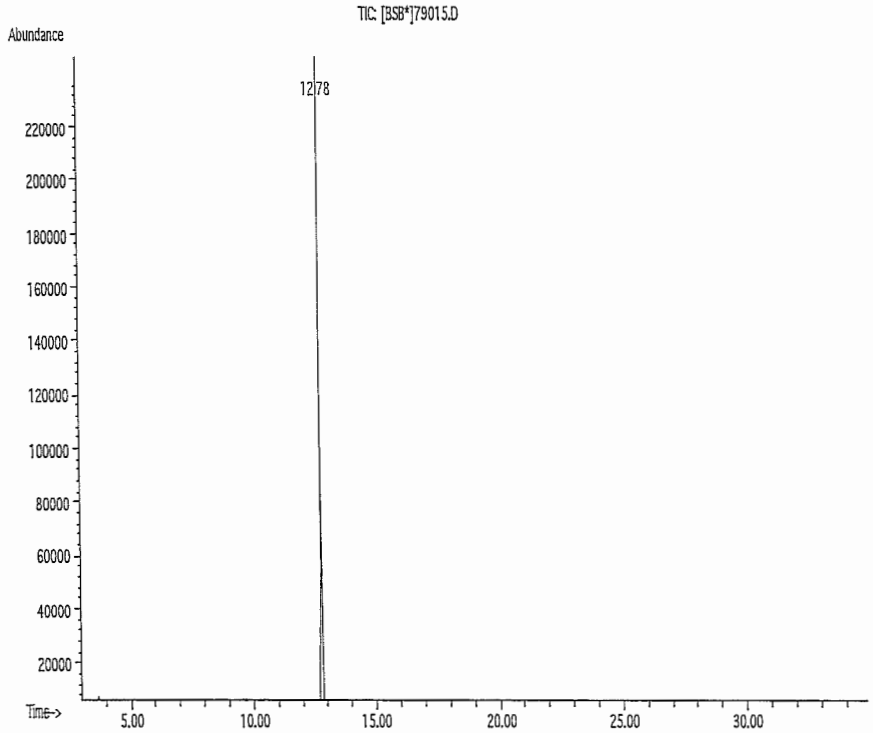
Pedro Rentas 062413
Reviewed By: Pedro L. Rentas DATE

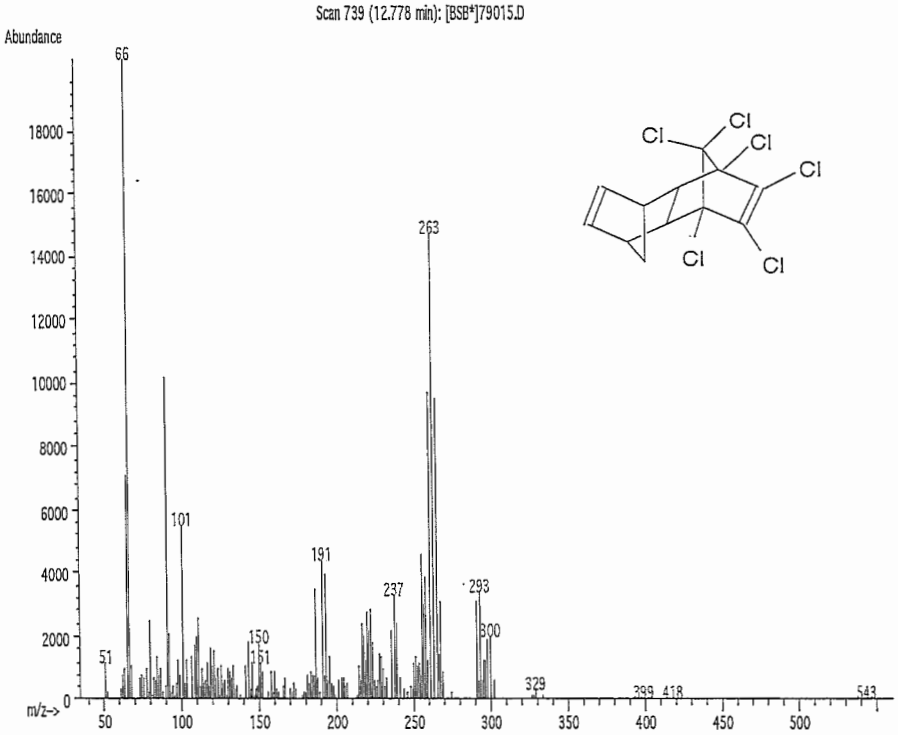
Weight(s) shown below were combined and diluted to: 25.0 0.002 Flask Uncertainty; 5E-05 Balance Uncertainty

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Aldrin	9	122096	1000	99	0.2	0.02525	0.02533	1003.3	0.00565	00309-00-2	0.25mg/m3 (skin)	orl-rat 39mg/kg

Method GC8MSD-7.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





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CERTIFIED WEIGHT REPORT

				Lot #	
Part Number:	79018	**Solvent(s):**		11493	Hexane
Lot Number:	062413				
Description:	4,4'-DDT				
Expiration Date:	062418				
Recommended Storage:	Refrigerate (4 °C)				
Nominal Concentration (µg/mL):	1000				

Gabriel Helland 062413
Formulated By: Gabriel Helland DATE

Pedro Rentas 062413
Reviewed By: Pedro L. Rentas DATE

5E-05 Balance Uncertainty

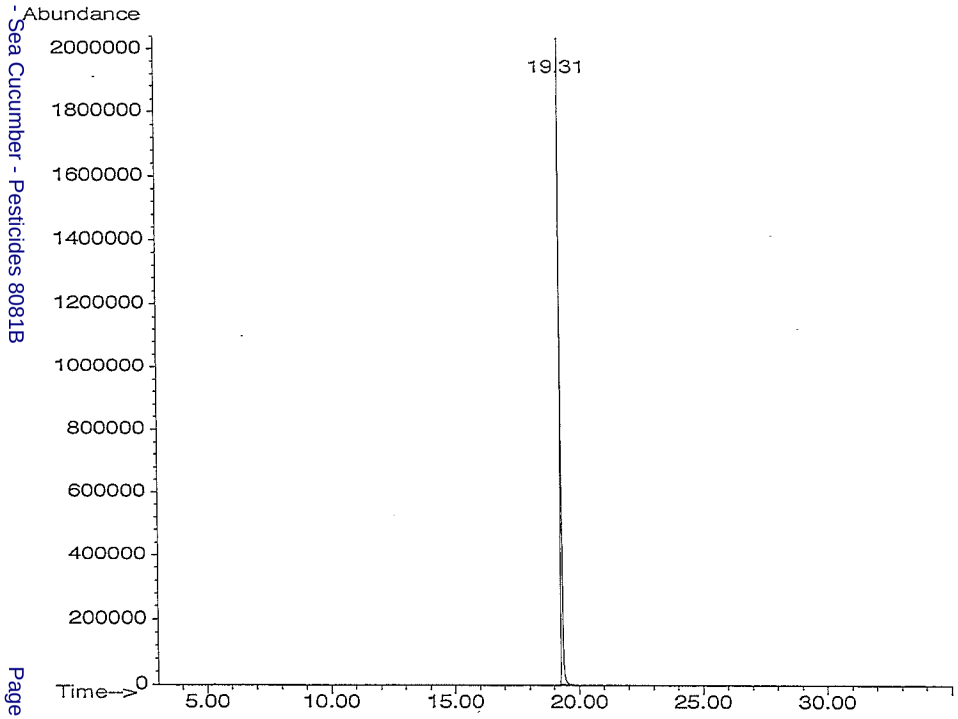
Weight(s) shown below were combined and diluted to: 25.0 0.002 Flask Uncertainty

MSDS Information
(Solvent Safety Info. On Attached pg.)

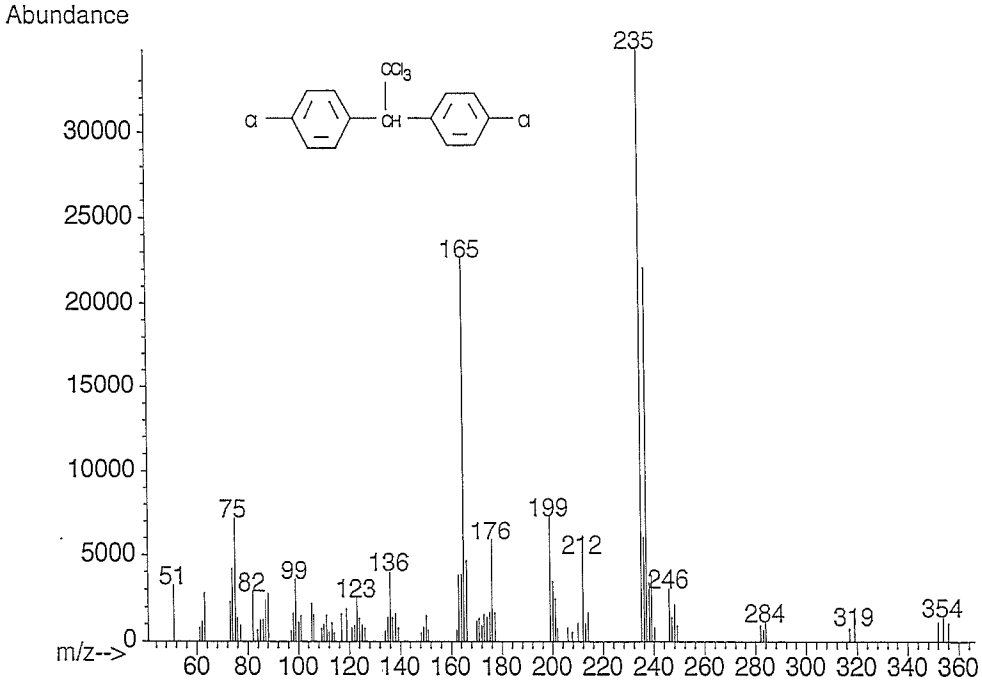
	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1.	4,4'-DDT	101	ER012306-03	1000	99	0.2	0.02525	0.02530	1002.1	0.0057	00050-29-3	N/A	orl-rat 87mg/kg

Method GC7MSD-1.M: Column: DB-35MS (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Gina McLane

TIC: 79018.D



Scan 1262 (19.270 min): 79018.D



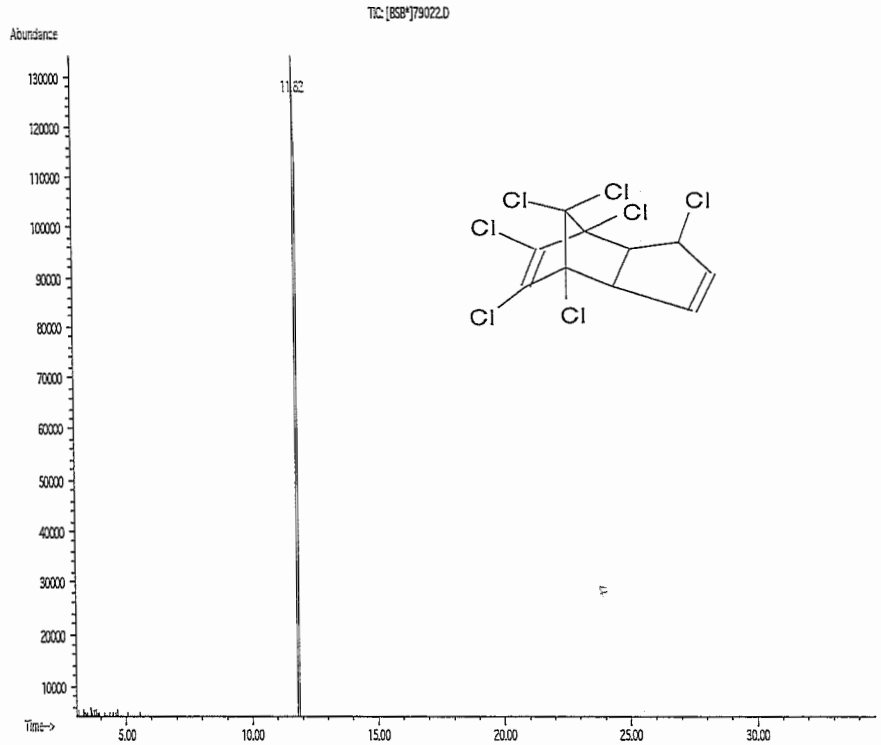
CERTIFIED WEIGHT REPORT

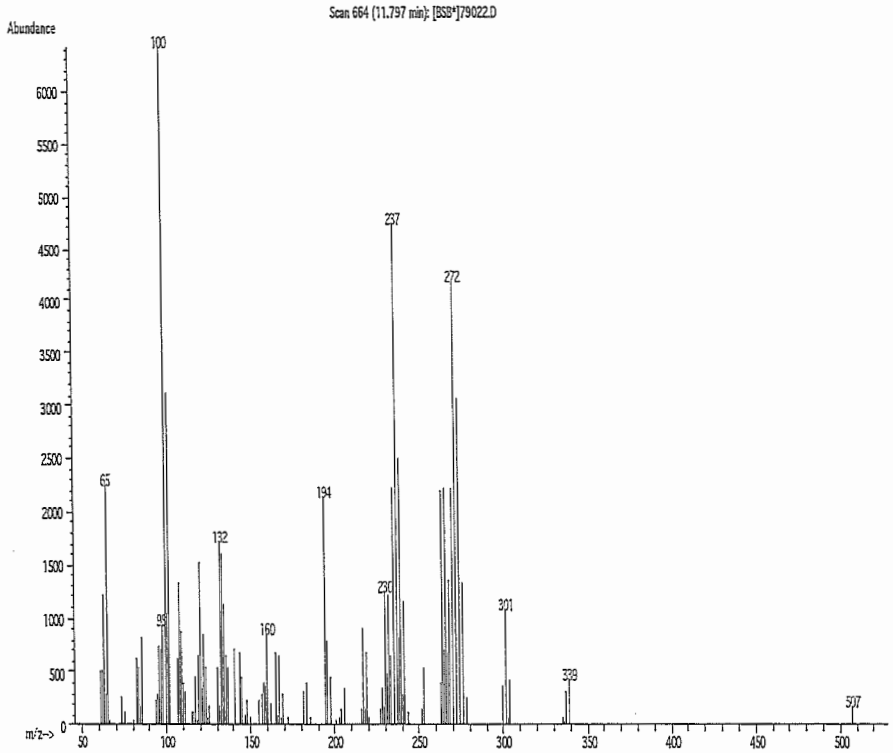
Part Number:	79022	**Solvent(s):**	Lot # H33E08	Hexane
Lot Number:	061710			
Description:	Heptachlor			
Expiration Date:	061715			
		Storage:	4 °C	
Nominal Concentration (µg/mL):	1000			
			5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to:	25.0		0.004	Flask Uncertainty

Formulated By: Justin Dippold	061710 DATE
Reviewed By: Pedro L. Rentas	061710 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Heptachlor	192	100705JD	1000	99	0.2	0.02527	0.02533	1002.3	0.0057	00076-44-8	0.5mg/m3 (skin)	orl-rat 40mg/kg

Method GC8MSD-7.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





Report Number 6615 - Sea Cucumber - Pesticides 8081B
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CERTIFIED WEIGHT REPORT

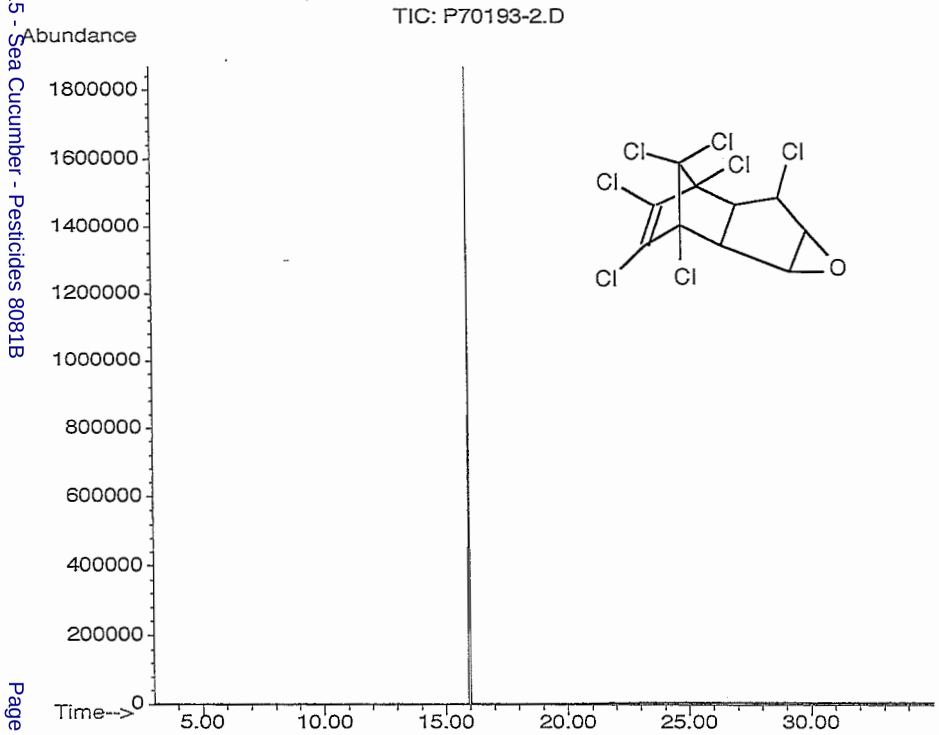
			Lot #	
Part Number:	79050	**Solvent(s):**	K38E41	Hexane
Lot Number:	030212			
Description:	Heptachlor epoxide (isomer B)			
Expiration Date:	030217			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

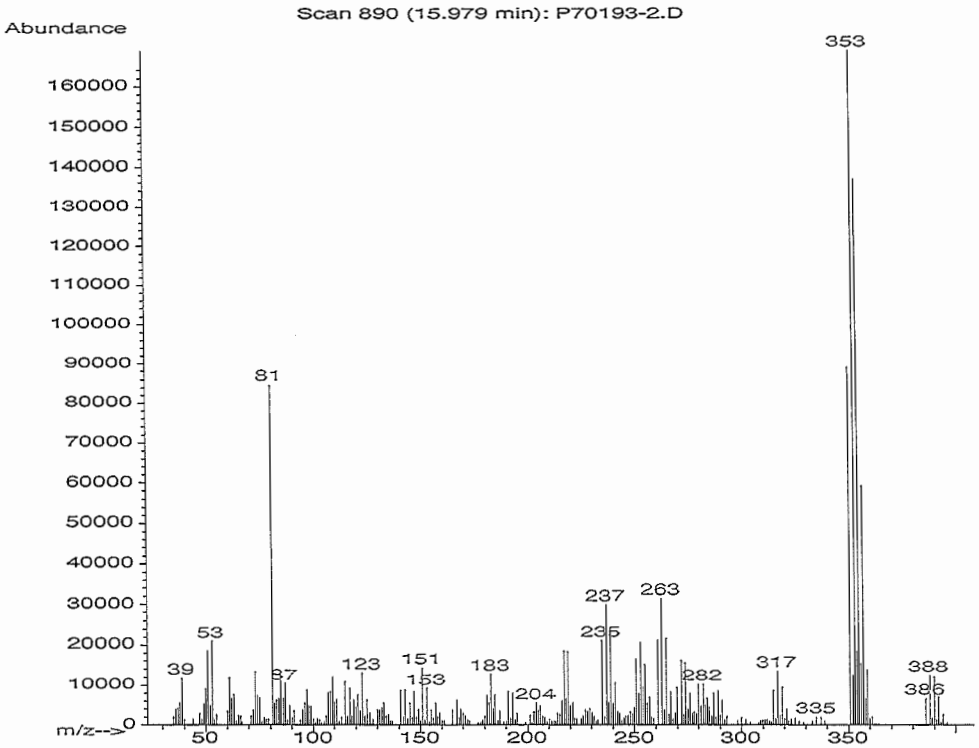
Formulated By:	Vincent K. Criscio, Jr.	030212	DATE
Reviewed By:	Pedro L. Rentas	030212	DATE

Weight(s) shown below were combined and diluted to: 25.0 0.002 Flask Uncertainty; 5E-05 Balance Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Heptachlor epoxide (isomer B)	193	060997	1000	98	0.2	0.02550	0.02556	1002.2	0.0057	01024-57-3	N/A	orl-rat 47mg/kg

Method GC7MSD-7.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Lance R. Boynton.





Standards Preparation Information

Rev. 1.1

1008212 Post ICV

0.500 mL of 1008211 (1.0 µg/mL)
Hexane JT8 62582
VF 5.0 mL of 0.100 µg/mL Std

JD 4/7/14 exp 4/21/14

1008213 – Post Cal Std

800 µL of 1008208 (0.250 ppm) exp 7/7/14
Q5 Hexane JT8 62582
2.0 mL of 0.100 ppm JD 4/10/14 exp 4/24/14

1008214 EVAL

Stock 1007980 ~~100 (200)~~ (1)(2) ppm EVAL BL 4-11-14 exp 6-13-14

1(2) µg/mL x 0.5 mL / 5 mL Hex (Baker 62582) = 0.1 (0.2) ppm

exp 6-13-14 BL 4-11-14

~~1008 20~~ BL 4-11-14 1008215-4 Post CAL STDS

400 uL of 0.25 µg/ml (1008208) / 600 uL hexane (Baker 62582) = 0.10 µg/ml Post
200 uL " " " " " / 800 " " " = 0.05
40 uL " " " " / 960 uL " " " = 0.010
20 uL " " " " / 980 uL " " = 0.005

exp 7-11-14 BL 4-11-14

Continued on Page

Read and Understood By

BL 4-7-14 Signed Date
JD 4/14/14 Signed Date

PROJECT

Continued From Page

1007979 EVAL STOCK

RESTEK Catalog# 32417
110 Benner Circle Bellefonte, PA 16823
Made in USA
Degradation Calibration Mixture
100 - 200 ug/mL each in MTBE
Lot# A095542 Exp. Date: 01/2017 Store: 10°C or colder

applied 09/13/13

1007980 EVAL WORKING STOCK

STOCK 1007979 100(200) ppm EVAL exp 01/17

100(200) ug/ml X 0.05 ml / 5 ml Hex (Baker, 4961) = 1(2) ppm

exp 06/13/14 09/13/13

1007981 EVAL

STOCK 1007980 1(2) ppm EVAL exp 06/13/14

1(2) ug/ml X 0.5 ml / 5 ml Hex (Baker, 4961) = 0.1(0.2) ppm

exp 12/13/13 09/13/13

1007982-4 PEST Cal Std

STOCK 1007978-4 10 ppm Pest exp 12/12/13

10 ug/ml X 0.25 ml / 10 ml Hex (Baker, 4961) = 0.25 ppm Pest
7 X 0.1 ml / 10 ml = 0.1
(1007982-4) 0.25 ug/ml X 1.0 ml / 5 ml = 0.05
0.1 ug/ml X 0.5 ml / 5 ml = 0.01
X 0.25 ml / 5 ml = 0.005

exp 12/12/13 09/13/13

09/12/13

Continued on Page

Read and Understood By

Signed 09/13/13 Date Signed 9/13/13 Date

RESTEK CERTIFIED REFERENCE MATERIAL

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

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32417 **Lot No.:** A095542

Description : Degradation Calibration Mixture

System Evaluation Mix 100-200µg/mL, MTBE,1mL/ampul

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

Expiration Date : January 31, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Endrin			100.5	µg/mL	+/-	0.7126	µg/mL	Gravimetric
	CAS #	72-20-8	(Lot LB88795V)			+/-	3.5670	µg/mL	Unstressed
	Purity	99%				+/-	6.1296	µg/mL	Stressed
2	4,4'-DDT			200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS #	50-29-3	(Lot ER012306-03)			+/-	7.1162	µg/mL	Unstressed
	Purity	99%				+/-	12.2286	µg/mL	Stressed

Solvent: MTBE
CAS # 1634-04-4
Purity 99%

1008224 EXPLOS 8330A Cal Std

0.200 mL of 1008092 (10 ppm) Std 14-5 exp 6/19/14
Diluent 1008179
5.00 mL of 400 µg/L GD 4/28/14 exp 7/23/14

1008225 PEST ICV

0.100 mL of 1008211 (1 PPM) exp 6/30/14
Hexane JTB602552
VF 1 mL of 0.1 PPM
TRC 4/22/14 EXP 6/30/14

1008226 Pest Cal Std 1°

25 µL of 1008099-11 100 µg/mL Stock exp 10/15/14
25 µL of 1008199 " HCP07/1508 exp 1/3/15
12.5 µL of 1008200 200 µg/mL Pest Surr exp 06/2016

25.0 mL of 0.100 µg/mL
GD 4/23/14 exp 7/23/14

1008227 NP Pest QC

Continued on Page

Read and Understood By

GD Signed 4/28/14 Date TRC Signed 5/1/14 Date

PROJECT

Continued From Page

1008097-R/S PEST CAL STDS

STOCK 1008069-R/S 10 ppm PST exp 03/10/14

STOCK 1008038 10 ppm Surrogate exp 01/22/14

10 ug/ml X 0.1 ml each / 10 ml Hex (Baker 14961) = 0.1 ppm PST

10 ug/ml X 0.05 ml each / 10 ml " = 0.05 ppm PST

exp 01/22/14 BJ 01/08/14

1008098-U

PPM-808C-1
Lot: CJ-3745A
Exp: 11/30/2015
ULTRA
1 mL
Organochlorine Pesticides Mixture
20 analyte(s) at 1000 µg/mL in hexane/toluene (1:1)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

1008099-U PEST INT. Stock

1.0 mL of 1008098-U (1,000 µg/mL) exp 11/2015

QS Hexane Baker 14961

10.0 mL of 100 µg/mL Stock

JD 1/13/14 exp 10/13/14

1008100-U PEST Working Stock

0.500 mL 1008099-U (100 µg/mL) Big mix exp - 10/13/14

0.100 mL 1007975-U (500 µg/mL) HCPD / Isodrin Xp 5/31/14

0.250 mL of Surr Soln (200 µg/mL) Cat 15M-320-1 Lot CK-1735 Xp 06/20/14

QS Hexane Baker 14961

5.00 mL Vol. of 10 µg/mL each

JD 1/13/14 exp 4/13/14

Continued on Page

Read and Understood By

JD 1/13/14 BR 1-21-14

Signed Date Signed Date

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Analytical Solutions

Certificate of Analysis

Organochlorine Pesticides Mixture

Product Number: PPM-808C **Page:** 1 of 2

Lot Number: CJ-3745A **Lot Issue Date:** 30-Oct-2013 **Expiration Date:** 30-Nov-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
aldrin	000309-00-2	RM00635	1005 ± 5 µg/mL
alpha-BHC	000319-84-6	RM02725	1005 ± 5 µg/mL
beta-BHC	000319-85-7	RM02724	1004 ± 5 µg/mL
delta-BHC	000319-86-8	RM02723	1002 ± 5 µg/mL
gamma-BHC	000058-89-9	RM02694	1003 ± 5 µg/mL
cis-chlordane	005103-71-9	RM02742	1002 ± 5 µg/mL
trans-chlordane	005103-74-2	RM02726	1005 ± 5 µg/mL
4,4'-DDD	000072-54-8	RM00615	1003 ± 5 µg/mL
4,4'-DDE	000072-55-9	RM02892	1004 ± 5 µg/mL
4,4'-DDT	000050-29-3	RM02881	1004 ± 5 µg/mL
dieldrin	000060-57-1	RM03957	1004 ± 5 µg/mL
endosulfan I	000959-98-8	RM00834	1004 ± 5 µg/mL
endosulfan II	033213-65-9	RM02905	1004 ± 5 µg/mL
endosulfan sulfate	001031-07-8	NT00714	1004 ± 5 µg/mL
endrin	000072-20-8	RM00557	1003 ± 5 µg/mL
endrin aldehyde	007421-93-4	RM04131	1004 ± 5 µg/mL
endrin ketone	053494-70-5	RM00212	1005 ± 5 µg/mL
heptachlor	000076-44-8	RM03111	1004 ± 5 µg/mL
heptachlor epoxide - Isomer B	001024-57-3	RM05373	1002 ± 5 µg/mL
methoxychlor	000072-43-5	RM04555	1005 ± 5 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

NORTH KINGSTOWN, RHODE ISLAND 02852 USA WWW.ULTRASCI.COM

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Analytical Solutions

Certificate of Analysis

TRIPLE ISO CERTIFICATION ULTRA ISO 17025 • ISO GUIDE 34 • ISO 9001

Organochlorine Pesticides Mixture

Product Number: PPM-808C

Lot Number: CJ-3745A

Lot Issue Date: 30-Oct-2013

Expiration Date: 30-Nov-2015

Analyte	CAS#	Analyte Lot	True Value

Matrix: hexane/toluene (1:1)

Storage: Store at Room Temperature (15-30°C). Do Not Refrigerate.

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

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ISO 9001 Registered TUVUSA, Inc. Cert. No. 09-1009

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401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

PROJECT

HCPD STOCK

1008197-AB

Part #: 70198
Lot #: 061813
Laboratory Use Only - See MSDS
Exp: 061818 Storage 4 °C
Hexachlorocyclopentadiene
1000 ug/mL in methanol 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opened 4/3/14
gD

1008198-AB

ISODRIN STOCK

Part #: 70448
Lot #: 092612
Laboratory Use Only - See MSDS
Exp: 092617 Storage 4 °C
Isodrin
1000 ug/mL in methanol 1 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

opend. 4/3/14
gD

1008199-AB

HCPD/ISOD. 2° STOCK

0.500mL of 1008197-AB (1,000 ppm) HCPD
0.500 mL of 1008198-AB (1000 ppm ISODRIN
Q5 Acetone

5.0 mL of 100 µg/mL each

gD 4/3/14 24P 1/3/15

PEST SURROGATES

1008200

ISM-320-1
Lot: CK-1735
Exp: 06/30/2016
ULTRA
1 mL
Pesticides Surrogate Standard
Spiking Solution
2 analyte(s) at 200 µg/mL in acetone
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

opened 4/3/14
gD

Continued on Page

Read and Understood By

gD 4/3/14 4/4/14
Signed Date Signed Date

Absolute Sta ards, Inc.
800-368-1131
www.absolutestandards.com

Certified R rence Material CRM

ISO 90 QS Registered
ISO 17025-34 -43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number:	70198	**Solvent(s):**	Lot # DH247	Methanol
Lot Number:	061813			
Description:	Hexachlorocyclopentadiene			
Expiration Date:	061818			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

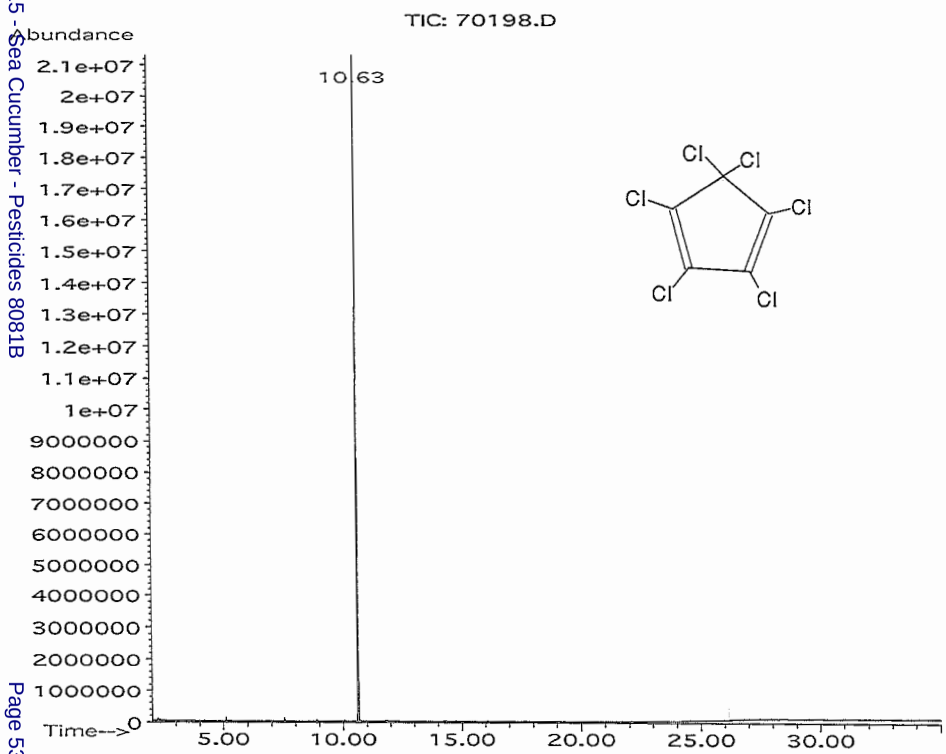
Weight(s) shown below were combined and diluted to: 50.0 0.003 Flask Uncertainty; 5E-05 Balance Uncertainty

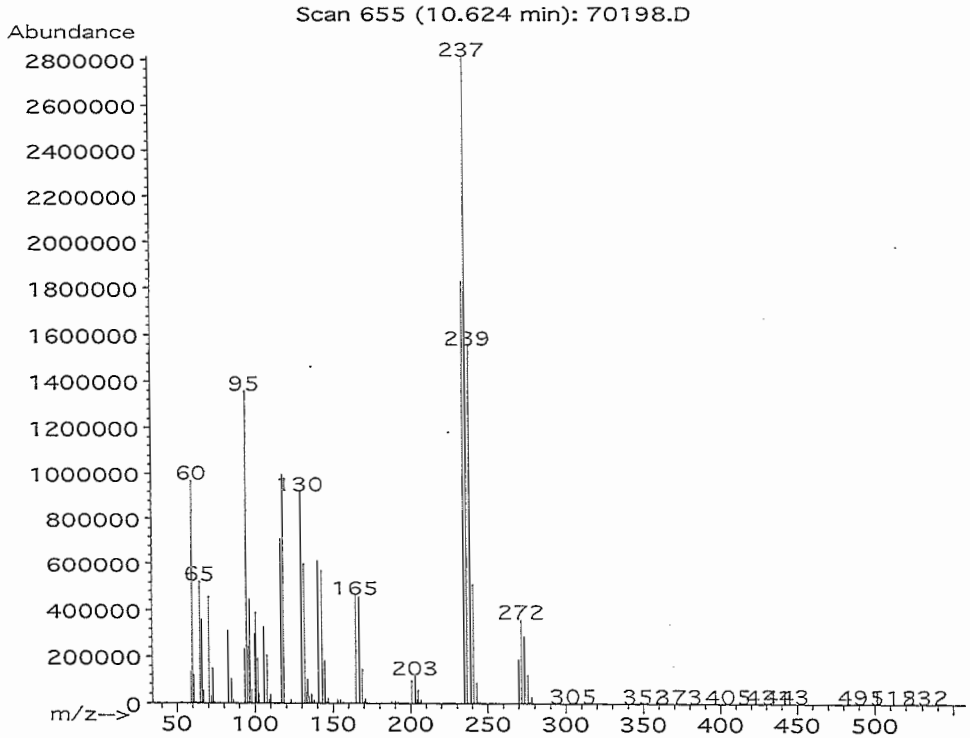
Formulated By:	Paul Barron	061813 DATE
Reviewed By:	Pedro L. Rentas	061813 DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Hexachlorocyclopentadiene	198	13101TD	1000	98	0.2	0.05102	0.05114	1002.4	0.00453	00077-47-4	0.01 ppm (0.1mg/m3/8H)	orl-rat 1300mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.





Absolute Standards, Inc.
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Certified Reference Material CRM

ISO 9001 QS Registered
ISO 17025-34 -43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

			Lot #	
Part Number:	70448	**Solvent(s):**	51182	Methanol
Lot Number:	092612			
Description:	Isodrin			
Expiration Date:	092617			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

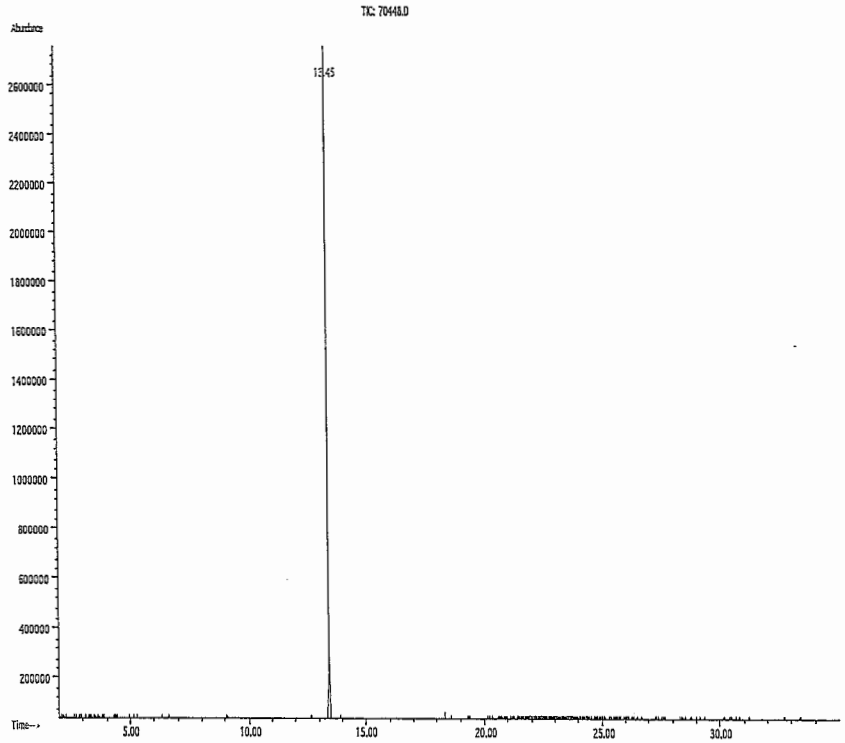
Paul Barron		092612
Formulated By:	Paul Barron	DATE
Pedro Rentas		092612
Reviewed By:	Pedro L. Rentas	DATE

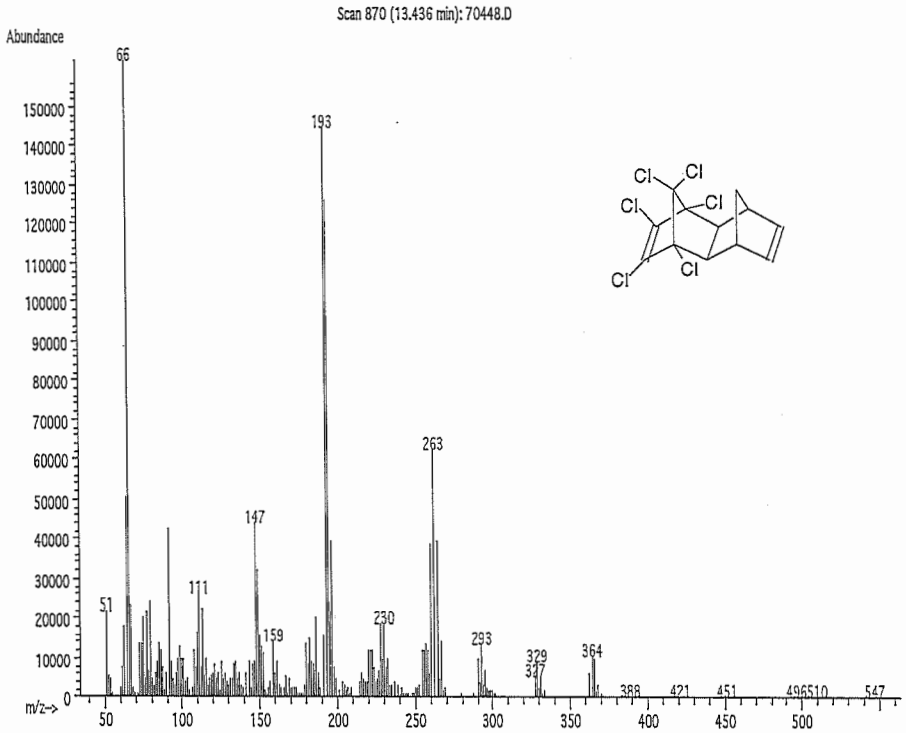
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 25.0 0.011 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Isodrin	448	121796	1000	99	0.2	0.02525	0.02533	1003.1	0.0057	00465-73-6	N/A	orl-rat 7mg/kg

Method GC8MSD-7.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.





Certificate of Analysis

Pesticides Surrogate Standard Spiking Solution

Product Number: ISM-320

Lot Number: CK-1735 **Lot Issue Date:** 04-Jun-2013 **Expiration Date:** 30-Jun-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2,4,5,6-tetrachloro-m-xylene	000877-09-8	NT01275	200.5 ± 1.0 µg/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	RM00348	200.8 ± 1.0 µg/mL

Matrix: acetone

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUVUSA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

1008208 Pest Calib (0.250)

0.250 mL of 1008201 (10 µg/mL) STD xp 10/3/14
QS Hexane JTB62582
10.0 mL of 0.250 µg/mL STD

400 µL of 0.250 µg/mL / 600 µL Hexane VF 1.0 mL of 0.100 µg/mL
200 µL of 0.250 " / 800 µL " " = 0.050
40 µL " 960 µL " = 0.010
20 µL " 980 µL JTB 62582 = 0.005
JD 4/7/14 xp 7/7/14

1008209-RS Pest QC - 2° Stock

0.500 mL of 1008133 Pest Mix (Pest TK) 100 ppm xp 11/12/14
0.100 mL of 1008134 HCPD/TSOD 500 ppm xp 6/30/14
QS Hexane above
5.00 mL of 10 µg/mL JD 4/7/14
xp 6/30/14

1008210 Pest Spike Soln

0.500 mL of 1008209-RS (10 µg/mL)
QS Acetone JTB K51E12
5.00 mL of 1.0 µg/mL
JD 4/7/14 xp 6/30/14

1008211 Pest QC ~~0.10~~ 1.0 ppm
JD 4/7/14

0.500 mL of 1008209-RS (10 µg/mL) 2° Stock
QS Hexane JTB62582
5.0 mL of 1.0 µg/mL
JD 4/7/14 xp 6/30/14

Continued on Page

Read and Understood By

JD 4/7/14 TRC 4/11/14
Signed Date Signed Date

1008131 DBCP - LCV STD

0.350 mL GO 2/10/14 (11)
0.100 mL of 1008090 (0.1 µg/mL) : Xp 6/19/14
Hexane
10.0 mL of 0.0035 µg/mL
GO 2/10/14 Xp 5/10/14

1008132 1.0 NP Test

2.0 ug/ml NP Pest (1008122A) x 0.5 ml / 1.0 ml = 1.0 ug/ml NP Pest

Baker Hexane 43501
BR 2-12-14

exp 5-6-14

1008133 Pest Stock

Restek 32415 2000ppm Pest Stock LOT A081212 exp 4/30/2015

2000ug/ml x 0.25mL / 5mL = 100ppm Pest

Baker Hexane 43501
BR 2-12-14

exp 11-12-14

1008134 HCPP/Isodrin Stock

Supelco 4-0051 HCPP 5000ppm in MeOH LOT LB86854 exp 11/30/14
" 4-0856 Isodrin 5000ppm in MeOH LOT LB65462 exp 6/30/14

5000ug/ml x 0.1ml / 1ml = 500ppm

Acetone
Baker K51612

exp 6-30-14

BR 2-12-14

Continued on Page

Read and Understood By

BR 2-12-14 GO 2/13/14
Signed Date Signed Date

RESTEK

Certificate of Analysis

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

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 32415 **Lot No.:** A081212

Description : Organochlorine Pesticide Mix AB #3

Organochlorine Pesticide Mix AB #3, Hexane/Toluene(50:50), 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] April 2015 **Storage:** 10°C or colder

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	% Grav.Uncert. (95% C.L.; K=2) [4]
1	alpha-BHC	319-84-6	99%	2,000.0 ug/mL	+/-0.59 %
2	gamma-BHC (Lindane)	58-89-9	99%	2,000.0 ug/mL	+/-0.59 %
3	beta-BHC	319-85-7	99%	2,000.0 ug/mL	+/-0.59 %
4	delta-BHC	319-86-8	99%	2,000.0 ug/mL	+/-0.59 %
5	Heptachlor	76-44-8	98%	2,000.2 ug/mL	+/-0.59 %
6	Aldrin	309-00-2	99%	2,000.0 ug/mL	+/-0.59 %
7	Heptachlor epoxide (isomer B)	1024-57-3	99%	2,000.0 ug/mL	+/-0.59 %
8	trans-Chlordane	5103-74-2	99%	2,000.0 ug/mL	+/-0.59 %
9	cis-Chlordane	5103-71-9	99%	2,000.0 ug/mL	+/-0.59 %
10	4,4'-DDE	72-55-9	99%	2,000.0 ug/mL	+/-0.59 %
11	Endosulfan I	959-98-8	98%	2,000.2 ug/mL	+/-0.59 %
12	Dieldrin	60-57-1	99%	2,000.0 ug/mL	+/-0.59 %
13	Endrin	72-20-8	98%	2,000.2 ug/mL	+/-0.59 %
14	4,4'-DDD	72-54-8	97%	2,000.1 ug/mL	+/-0.59 %
15	Endosulfan II	33213-65-9	99%	2,000.0 ug/mL	+/-0.59 %
16	4,4'-DDT	50-29-3	99%	2,000.0 ug/mL	+/-0.59 %
17	Endrin aldehyde	7421-93-4	97%	2,000.1 ug/mL	+/-0.59 %
18	Methoxychlor	72-43-5	99%	2,000.0 ug/mL	+/-0.59 %
19	Endosulfan sulfate	1031-07-8	99%	2,000.0 ug/mL	+/-0.59 %
20	Endrin ketone	53494-70-5	95%	1,999.8 ug/mL	+/-0.59 %

Certificate of Analysis

DESCRIPTION: Hexachlorocyclopentadiene

CATALOG NO.: 40051 MFG DATE: Nov-2011

LOT NO.: LB88854 EXPIRATION DATE: Nov-2014

SOLVENT: METHANOL

ANALYTE	CAS NUMBER	PERCENT PURITY(1)	WEIGHT(2)	ANALYTICAL(3) CONCENTRATION	STD DEV	SUPELCO LOT NO
HEXACHLOROCYCLOPENTADIENE	77-47-4	98.8	4997	4639	+/- 197.9	LB76931

(1) Determined by capillary GC-FID, unless otherwise noted.

(2) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(3) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: Isodrin

CATALOG NO.: 40856

MFG DATE: Jun-2011

LOT NO.: LB85482

EXPIRATION DATE: Jun-2014

ANALYTE	CAS NUMBER	PERCENT PURITY(1)	WEIGHT(2) CONCENTRATION	ANALYTICAL(3) CONCENTRATION		STD DEV	SUPELCO LOT NO
ISODRIN	465-73-6	96.5	5003	5040	+/-	26.8	LB23539

(1) Determined by capillary GC-FID, unless otherwise noted.

(2) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(3) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Analytical Run Number ___1___

Calibration Information

Tune Data (If applicable)

Initial Calibration (If different than Initial Calibration in Run 1)
- Calibration Factor Summary
- Chromatogram
- Quant Report (If applicable)

Continuing Calibration
- Calibration Response Check
- Chromatogram
- Quant Report (If applicable)

Instrument Logs/Analysis Notebook Pages

Blank / Field Sample / QC Data

Sample Results
Chromatogram
Quant Report (If applicable)
Confirmation Analysis Quant Report / Chromatogram (If applicable)
Tentatively Identified Compounds (If required)

Rev. 1.1

Calibration Information

Tune Data (If applicable)

Initial Calibration (If different than Initial Calibration in Run 1)
- Calibration Factor Summary
- Chromatogram
- Quant Report (If applicable)

Continuing Calibration
- Calibration Response Check
- Chromatogram
- Quant Report (If applicable)

Rev. 1.1

File Name: G:\CP1\HP9\PESTHAWAII06A.cal
Version: 3

Creator: RDJ
Description: HP9 HAWAII PST 06A STX-CLP

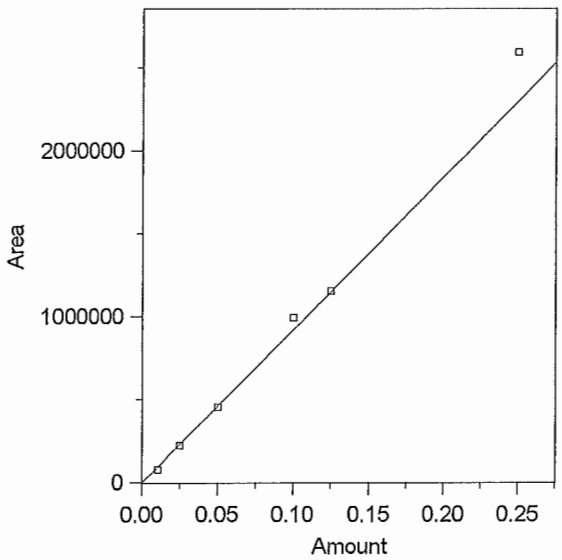
External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: ug/mL
No default component

Method of calculating data point averages: Current update equal to cal data
No calibration update report

All levels are normal data points.

*used linear regression RDJ 04/30/14

1 CL4XYL



Expected retention time:	7.9 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0.1

Single peak quantification by area

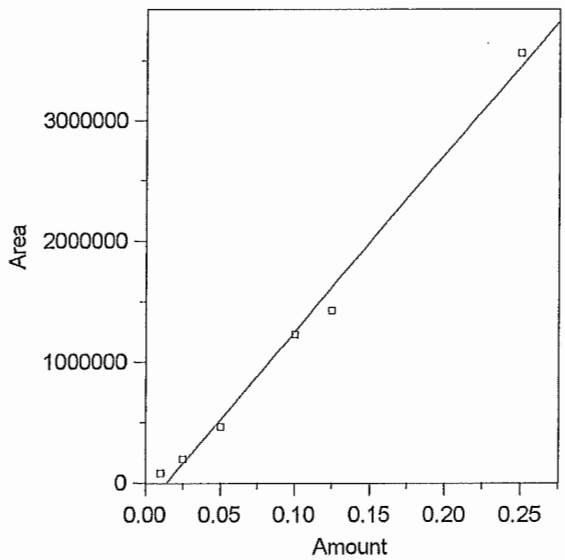
Y = 9190794 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9780604
Average error:	7.088%
Average CF:	9190794
RSD:	10.310%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	2594737	1.037895E+07	12.928	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1153532	9228256	0.408	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	991946.7	9919467	7.928	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	452760.3	9055206	-1.475	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	223551.4	8942056	-2.706	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	76208.33	7620833	-17.082	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

2 ABHC *



Expected retention time:	9.26 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

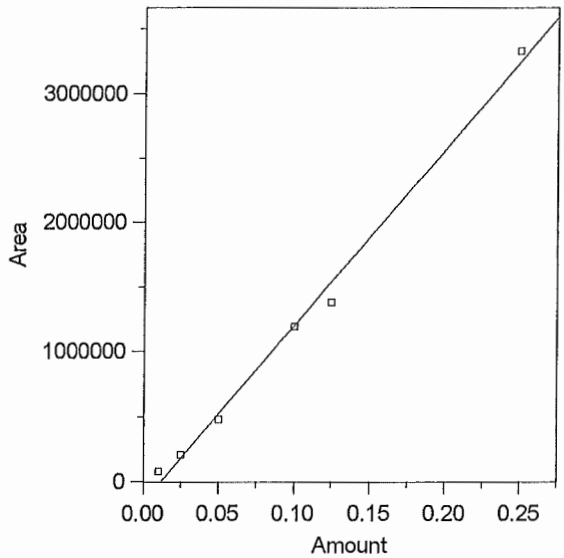
Y = 1.462558E+07 X + -205906.9

Linear fit with equal weighting

Coefficient of determination:	0.9908755
Average error:	46.872%
Average CF:	1.046006E+07
RSD:	25.145%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3563503	1.425401E+07	3.275	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1422914	1.138331E+07	-12.290	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	1231408	1.231408E+07	-2.009	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	463170.8	9263416	-11.839	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	197388.3	7895532	23.574	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	76500.01	7650001	-228.246	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

3 LINDANE *



Expected retention time:	10.01 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

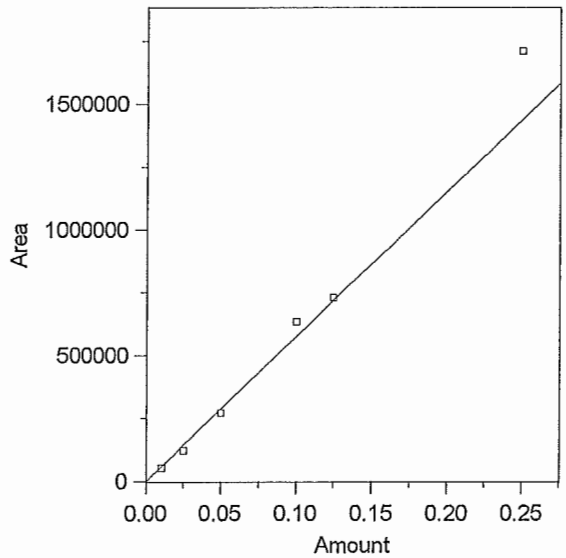
Y = 1.36123E+07 X + -159449.2

Linear fit with equal weighting

Coefficient of determination:	0.9935116
Average error:	79.804%
Average CF:	
1.034184E+07	
RSD:	20.545%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3330189	1.332076E+07	2.669	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1379416	1.103533E+07	-10.549	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	1194568	1.194568E+07	-0.600	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	476360.6	9527212	-8.597	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	205726.1	8229044	13.750	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	79929.91	7992991	-442.660	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

4 BBHC



Expected retention time:	10.25 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

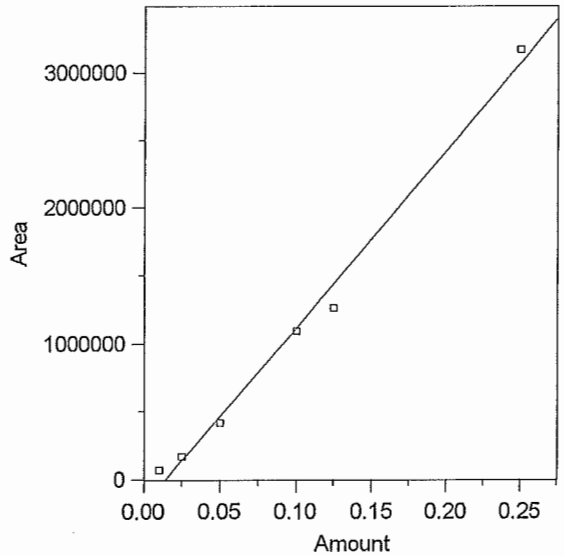
Y = 5752682 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9580476
Average error:	10.149%
Average CF:	5752682
RSD:	12.850%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	1712185	6848740	19.053	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	729031.3	5832251	1.383	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	632857.7	6328577	10.011	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	270127.4	5402548	-6.086	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	121044.7	4841788	-15.834	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	52621.85	5262186	-8.526	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

5 DBHC *



Expected retention time:	10.65 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

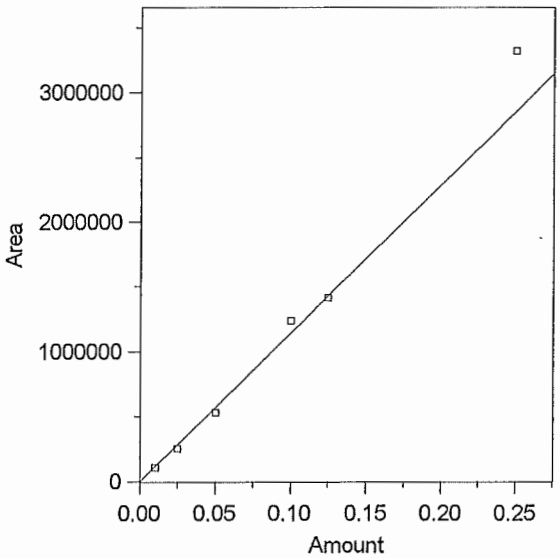
Single peak quantification by area

Y = 1.301132E+07 X + -184165

Linear fit with equal weighting	
Coefficient of determination:	0.9908885
Average error:	45.734%
Average CF:	9281534
RSD:	25.566%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3169355	1.267742E+07	3.281	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1263336	1.010669E+07	-12.405	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	1094133	1.094133E+07	-2.044	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	418233.8	8364676	-10.327	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	167161.5	6686460	18.455	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	69126.3	6912630	-227.889	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

6 HPCL



Expected retention time:	11.09 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

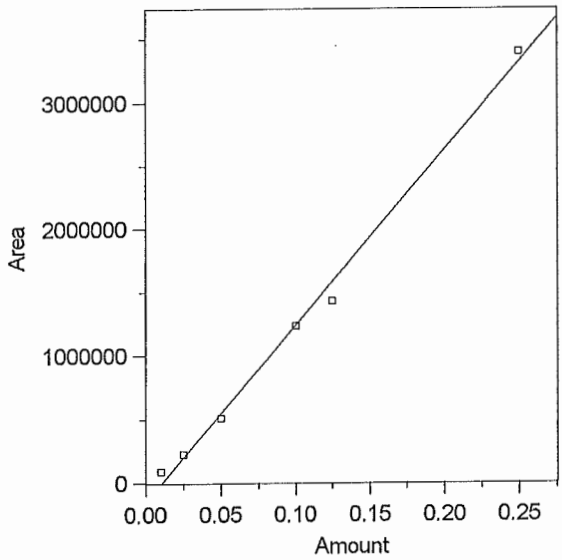
Y = 1.142791E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9674598
Average error:	8.211%
Average CF:	
1.142791E+07	
RSD:	10.262%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3324286	1.329714E+07	16.357	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1410133	1.128106E+07	-1.285	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	1237383	1.237383E+07	8.277	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	532555	1.06511E+07	-6.797	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	257272	1.029088E+07	-9.950	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	106734.4	1.067344E+07	-6.602	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

7 ALDRN *



Expected retention time:	11.74 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

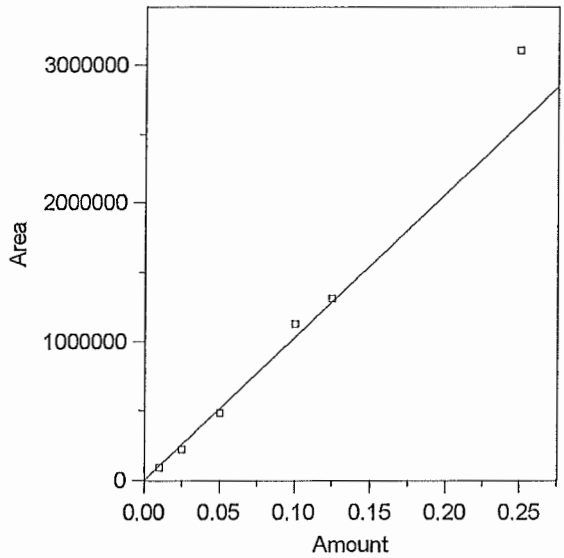
Y = 1.383975E+07 X + -144921.5

Linear fit with equal weighting

Coefficient of determination:	0.9943319
Average error:	248.192%
Average CF:	
1.090222E+07	
RSD:	17.204%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3397774	1.35911E+07	2.496	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1428755	1.143004E+07	-9.860	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	1231607	1.231607E+07	-0.601	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	506721.6	1.013443E+07	-7.375	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	227423.8	9096952	13.106	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	88447.2	8844721	-1455.714	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

8 HPCLE



Expected retention time:	13.02 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

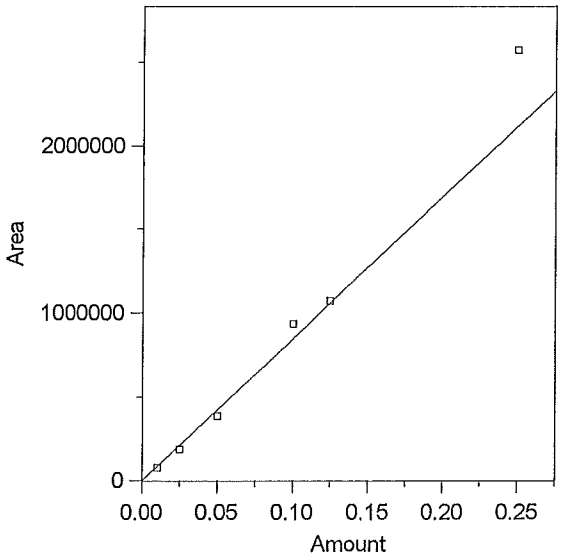
Y = 1.03238E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9533693
Average error:	10.513%
Average CF:	1.03238E+07
RSD:	13.201%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3108815	1.243526E+07	20.452	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1312924	1.050339E+07	1.740	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	1128886	1.128886E+07	9.348	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	484886.2	9697724	-6.064	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	223061.4	8922456	-13.574	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	90950.96	9095096	-11.902	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

9 PPDDT



Expected retention time:	15.45 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

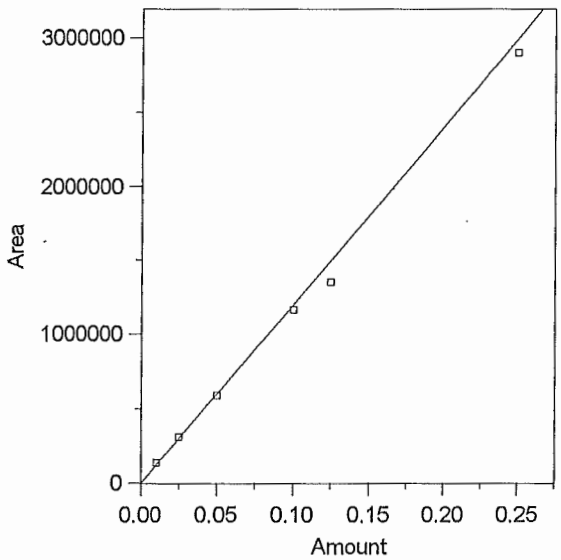
Y = 8464711 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.948769
Average error:	11.016%
Average CF:	8464711
RSD:	13.764%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	2573711	1.029484E+07	21.621	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1069168	8553344	1.047	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	934343	9343430	10.381	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	385547.8	7710956	-8.905	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	185467.7	7418708	-12.357	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	74669.84	7466985	-11.787	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM

10 CL10BP



Expected retention time:	19.68 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0.1

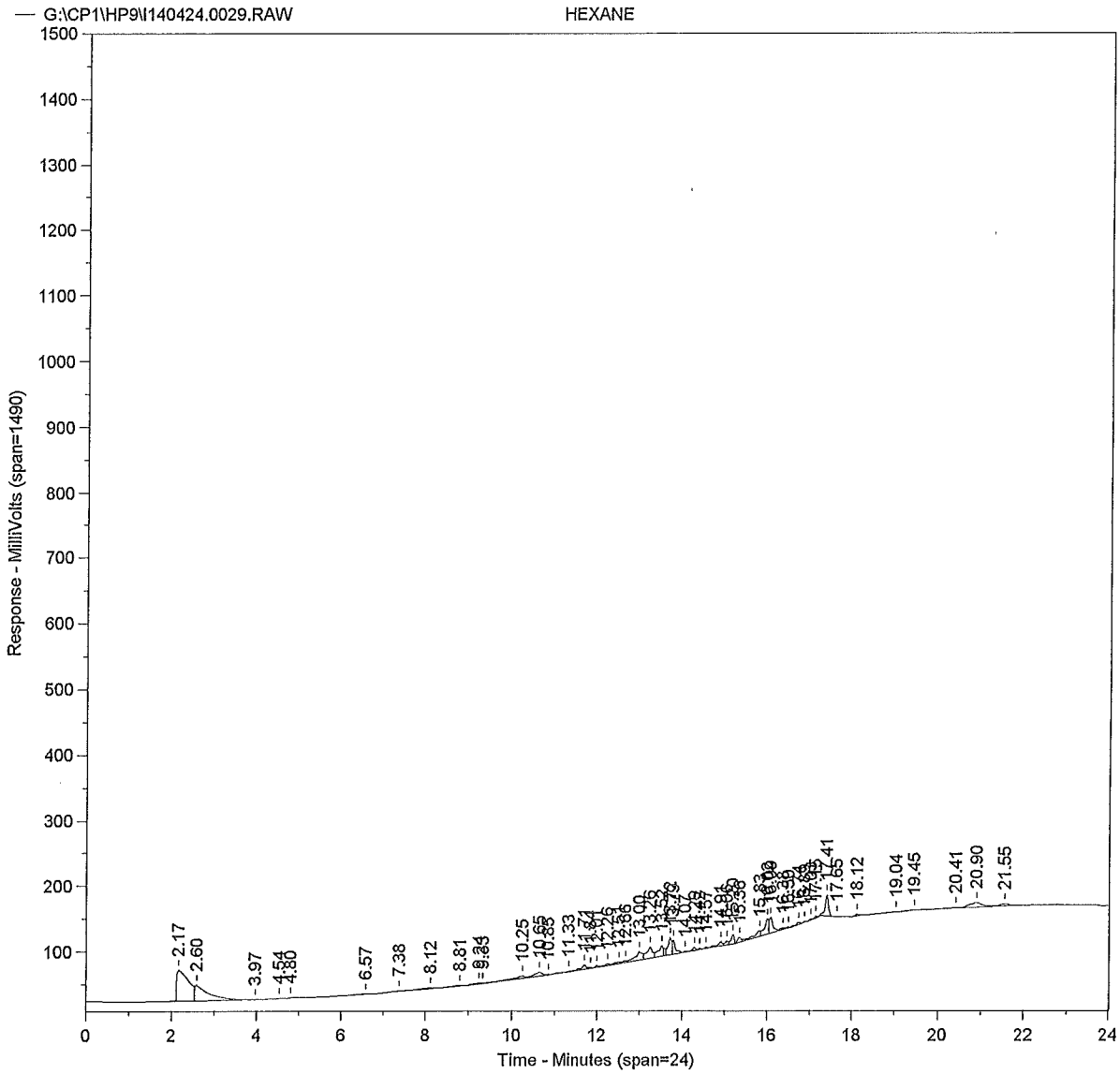
Single peak quantification by area

Y = 1.198199E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9938169
Average error:	5.690%
Average CF: 1.198199E+07	
RSD:	7.944%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	2903768	1.161507E+07	-3.062	G:\CP1\HP9\I140425.0002.BND	4/28/14 8:30:21 AM
2	0.125	1350233	1.080186E+07	-9.849	G:\CP1\HP9\I140425.0003.BND	4/28/14 8:30:29 AM
3	0.1	1164998	1.164998E+07	-2.771	G:\CP1\HP9\I140425.0004.BND	4/28/14 8:30:40 AM
4	0.05	590780.9	1.181562E+07	-1.389	G:\CP1\HP9\I140425.0005.BND	4/28/14 8:30:48 AM
5	0.025	309581.8	1.238327E+07	3.349	G:\CP1\HP9\I140425.0006.BND	4/28/14 8:30:55 AM
6	0.01	136261.6	1.362616E+07	13.722	G:\CP1\HP9\I140425.0007.BND	4/28/14 8:31:06 AM


G:\CP1\HP9\I140424.0029.RAW
HEXANE
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.17
2.60
3.97
4.54
4.80
6.57
7.38
8.12
8.81
10.25
11.33
17.41
17.65
18.12
19.04
19.45
20.41
20.90
21.55

Sample Name = **HEXANE**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

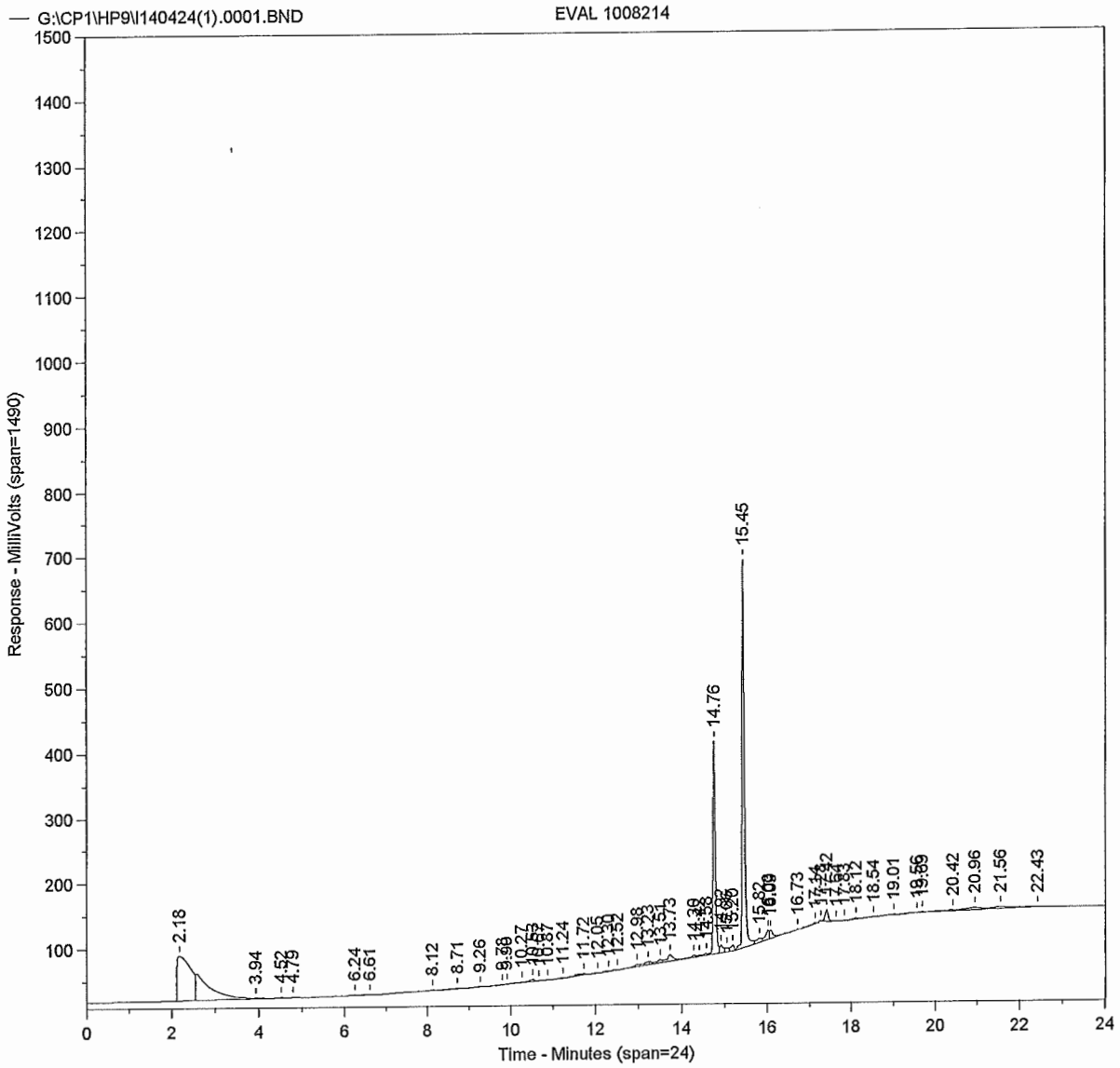
Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140424.0029.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 10:55:39 AM
Method Version = 203
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.17		0.00	0.000	923816	25.031	BV	0.40
2	2.60		0.00	0.000	534680	14.487	VV	0.28
3	3.97		0.00	0.000	1900	0.051	VB	0.14
4	4.54		0.00	0.000	5072	0.137	BB	0.17
5	4.80		0.00	0.000	2091	0.057	BB	0.07
6	6.57		0.00	0.000	16206	0.439	BB	0.41
7	7.38		0.00	0.000	1605	0.043	BB	0.11
8	8.12		0.00	0.000	27443	0.744	BB	0.41
9	8.81		0.00	0.000	13986	0.379	BB	0.28
10	9.24	ABHC *	0.02	20.754	15984	0.433	BV	0.22
11	9.33		0.00	0.000	3993	0.108	VV	0.06
12	10.25	BBHC	0.01	13.535	56917	1.542	VV	0.45
13	10.65	DBHC *	0.02	26.269	65691	1.780	VV	0.22
14	10.85		0.00	0.000	5344	0.145	VB	0.11
15	11.33		0.00	0.000	12289	0.333	BB	0.24
16	11.71	ALDRN *	0.01	19.241	49738	1.348	BV	0.12
17	11.84		0.00	0.000	11089	0.300	VB	0.10
18	12.01		0.00	0.000	12848	0.348	BV	0.13
19	12.26		0.00	0.000	18200	0.493	VV	0.14
20	12.51		0.00	0.000	22677	0.614	VV	0.18
21	12.66		0.00	0.000	16274	0.441	VV	0.09
22	13.00	HPCLE	0.01	20.202	152461	4.131	VV	0.18
23	13.26		0.00	0.000	158382	4.291	VV	0.08
24	13.52		0.00	0.000	134644	3.648	VV	0.08
25	13.72		0.00	0.000	141160	3.825	VV	0.07
26	13.79		0.00	0.000	110034	2.981	VV	0.06
27	14.07		0.00	0.000	10360	0.281	VV	0.11
28	14.29		0.00	0.000	29002	0.786	VV	0.10
29	14.42		0.00	0.000	12777	0.346	VV	0.11
30	14.57		0.00	0.000	10955	0.297	VV	0.09
31	14.91		0.00	0.000	63718	1.726	VV	0.13
32	15.06		0.00	0.000	38353	1.039	VV	0.09
33	15.20		0.00	0.000	72979	1.977	VB	0.08
34	15.36		0.00	0.000	46501	1.260	BV	0.12
35	15.83		0.00	0.000	96035	2.602	VV	0.12
36	16.02		0.00	0.000	158214	4.287	VV	0.07
37	16.09		0.00	0.000	139712	3.785	VV	0.08
38	16.38		0.00	0.000	18069	0.490	VV	0.12
39	16.50		0.00	0.000	6921	0.188	VB	0.09
40	16.74		0.00	0.000	23438	0.635	BV	0.13
41	16.89		0.00	0.000	6955	0.188	VB	0.09
42	17.03		0.00	0.000	6683	0.181	BV	0.07
43	17.15		0.00	0.000	13694	0.371	VB	0.10
44	17.41		0.00	0.000	173462	4.700	BB	0.08
45	17.65		0.00	0.000	3922	0.106	BB	0.07
46	18.12		0.00	0.000	21317	0.578	BB	0.20
47	19.04		0.00	0.000	4072	0.110	BB	0.16
48	19.45		0.00	0.000	7453	0.202	BB	0.24
49	20.41		0.00	0.000	24791	0.672	BV	0.39
50	20.90		0.00	0.000	145358	3.938	VV	0.37
51	21.55		0.00	0.000	41477	1.124	VB	0.20

Total Area = 3690738 Total Height = 354508.1 Total Amount = 7.310148E-02


G:\CP1\HP9\I140424(1).0001.BND
EVAL 1008214
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.18
3.94
4.52
4.79
6.24
6.61
8.12
8.71
9.26
11.24
11.72
12.98
13.73
14.76
15.45
16.73
18.12
18.54
19.01
20.42
20.96
21.56
22.43

Sample Name = **EVAL 1008214**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140424(1).0001.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 11:25:27 AM
Method Version = 199
Calibration Version = 3

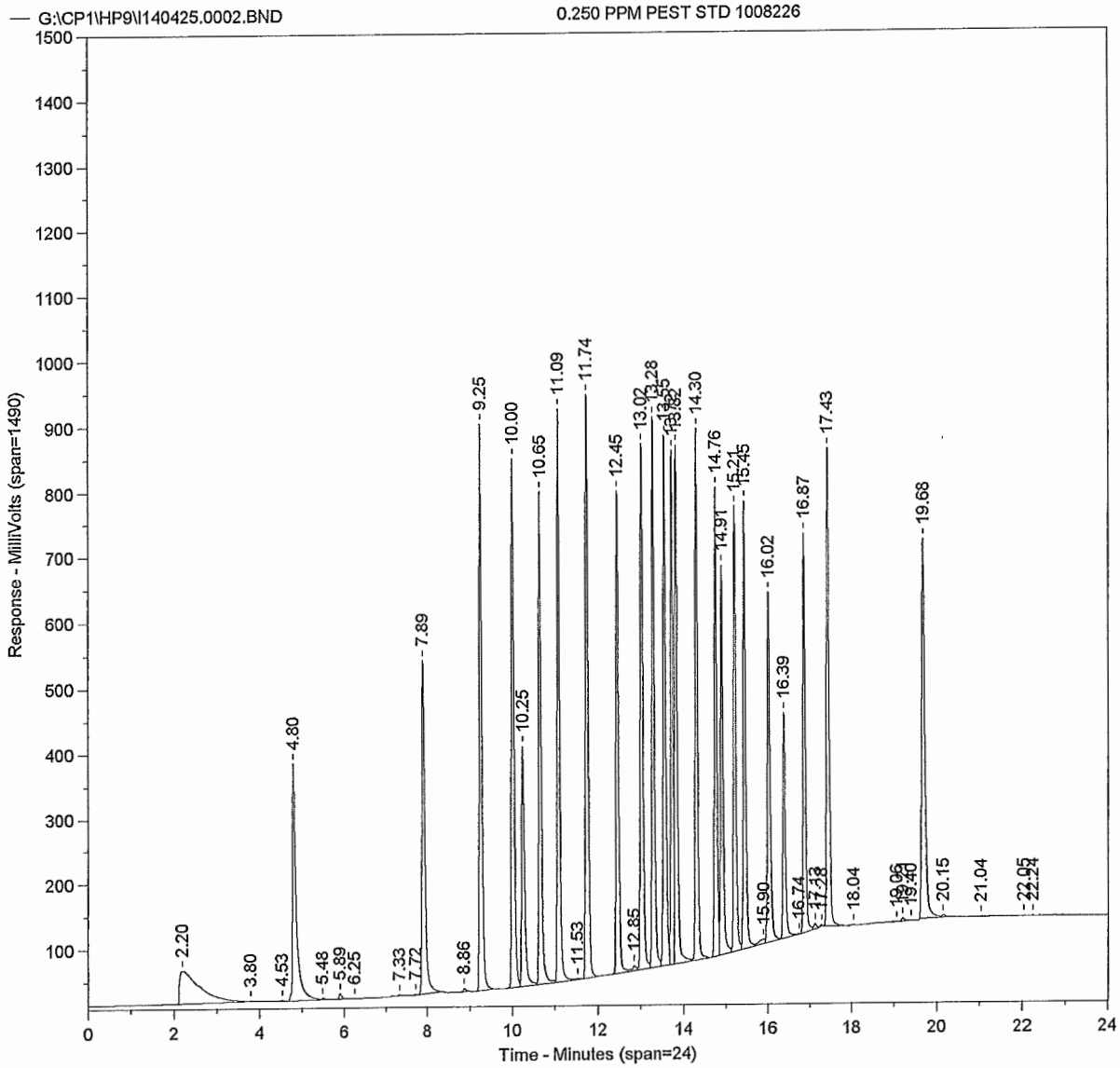
Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.18		0.00	0.000	1472605	23.634	BV	0.43
2	3.94		0.00	0.000	9261	0.149	VB	0.17
3	4.52		0.00	0.000	6084	0.098	BB	0.10
4	4.79		0.00	0.000	1729	0.028	BB	0.07
5	6.24		0.00	0.000	8760	0.141	BV	0.17
6	6.61		0.00	0.000	4675	0.075	VB	0.16
7	8.12		0.00	0.000	8284	0.133	BB	0.21
8	8.71		0.00	0.000	11522	0.185	BB	0.24
9	9.26	ABHC *	0.01	4.442	3725	0.060	BB	0.18
10	9.78		0.00	0.000	9011	0.145	BV	0.23
11	9.90		0.00	0.000	4822	0.077	VV	0.07
12	10.27	BBHC	0.00	1.307	24261	0.389	VV	0.22
13	10.53		0.00	0.000	31476	0.505	VV	0.17
14	10.67	DBHC *	0.01	4.501	4803	0.077	VB	0.05
15	10.87		0.00	0.000	2171	0.035	BB	0.09
16	11.24		0.00	0.000	8770	0.141	BB	0.23
17	11.72	ALDRN *	0.01	3.871	27959	0.449	BB	0.28
18	12.05		0.00	0.000	6251	0.100	BB	0.16
19	12.30		0.00	0.000	7527	0.121	BV	0.15
20	12.52		0.00	0.000	8234	0.132	VB	0.16
21	12.98	HPCLE	0.00	1.115	37150	0.596	BV	0.18
22	13.23		0.00	0.000	48223	0.774	VV	0.09
23	13.51		0.00	0.000	49879	0.801	VV	0.11
24	13.73	DDE	0.00	0.000	98929	1.588	VV	0.12
25	14.30		0.00	0.000	29540	0.474	VV	0.12
26	14.42		0.00	0.000	9201	0.148	VV	0.06
27	14.58		0.00	0.000	20539	0.330	VV	0.09
28	14.76	ENDRN	0.00	0.000	1216286	19.521	VV	0.05
29	14.92	DDD	0.00	0.000	64984	1.043	VV	0.05
30	15.06		0.00	0.000	39877	0.640	VV	0.06
31	15.20		0.00	0.000	52264	0.839	VB	0.11
32	15.45	PPDDT	0.27	84.670	2312544	37.115	BV	0.06
33	15.82		0.00	0.000	61607	0.989	VV	0.11
34	16.03	ENDRNA	0.00	0.000	92663	1.487	VV	0.08
35	16.09		0.00	0.000	69183	1.110	VV	0.07
36	16.73		0.00	0.000	16690	0.268	VB	0.20
37	17.14		0.00	0.000	20082	0.322	BB	0.21
38	17.28		0.00	0.000	3473	0.056	BV	0.05
39	17.42	ENDRNK	0.00	0.000	85868	1.378	VB	0.07
40	17.64		0.00	0.000	1508	0.024	BV	0.04
41	17.83		0.00	0.000	1941	0.031	VB	0.06
42	18.12		0.00	0.000	20790	0.334	BV	0.19
43	18.54		0.00	0.000	8251	0.132	VB	0.17
44	19.01		0.00	0.000	5794	0.093	BB	0.14
45	19.56		0.00	0.000	11734	0.188	BB	0.31
46	19.69	CL10BP	0.00	0.093	3581	0.057	BV	0.09
47	20.42		0.00	0.000	33119	0.532	VV	0.43
48	20.96		0.00	0.000	88297	1.417	VV	0.43
49	21.56		0.00	0.000	58104	0.933	VV	0.23
50	22.43		0.00	0.000	6760	0.108	VB	0.31

Total Area = 6230792 Total Height = 1136591 Total Amount = 0.3226611

Printed on 4/28/14 11:49:39 AM

DDT (98929 + 64984) / (98929 + 64984 + 2312544) = 6.6%

END (92663 + 85868) / (92663 + 85868 + 1216286) = 12.7%


G:\CP1\HP9\I140425.0002.BND
0.250 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.20
3.80
4.53
4.80
5.48
5.89
6.25
7.33
7.72
7.89
8.86
9.25
10.00
10.25
10.65
11.09
11.53
11.74
12.45
12.85
13.02
13.28
13.82
14.30
14.76
14.91
15.21
15.45
15.90
16.02
16.39
16.74
16.87
17.18
17.43
18.04
19.40
19.68
20.15
21.04
22.24

Sample Name = **0.250 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

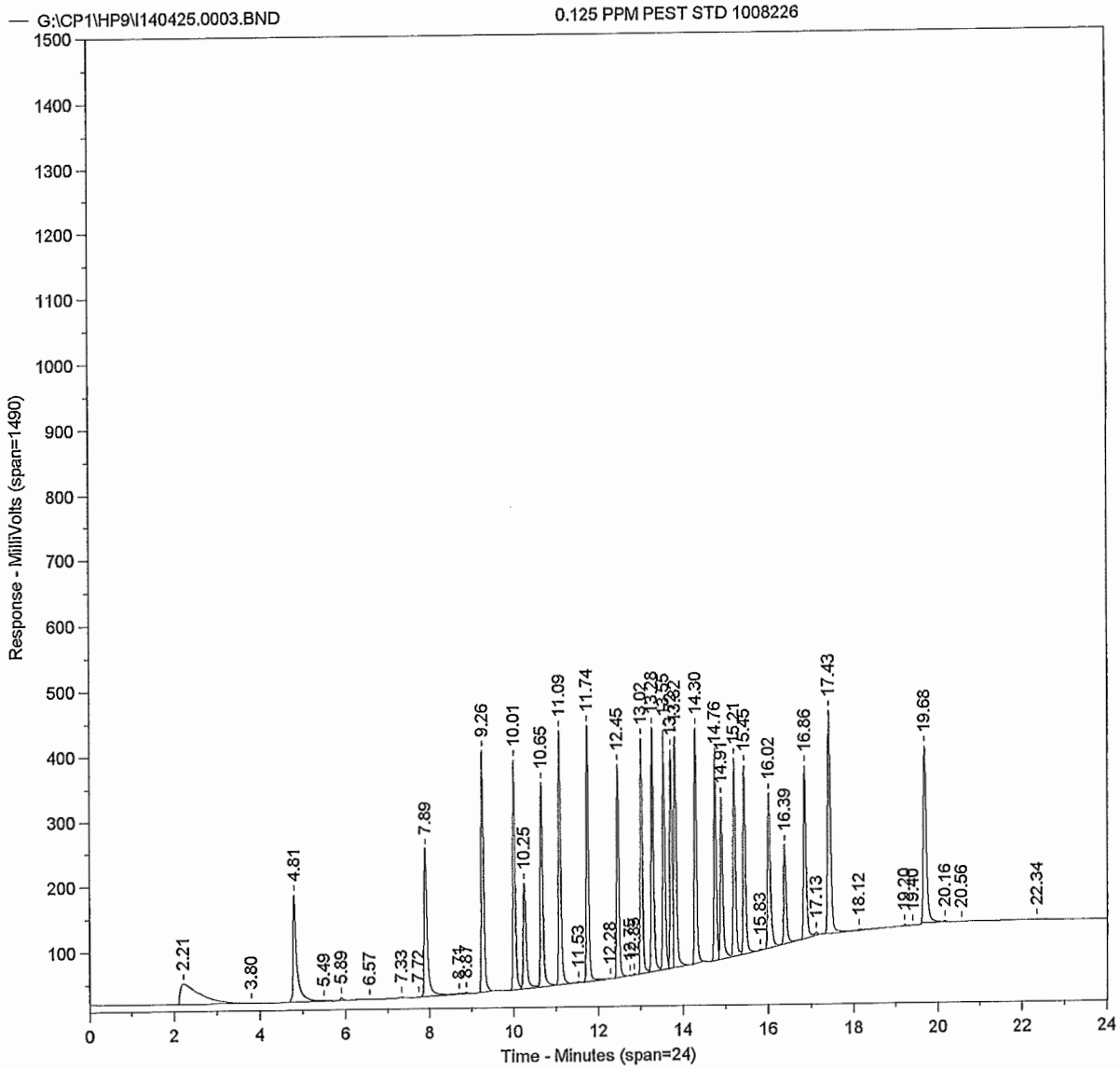
Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0002.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 12:29:16 PM
Method Version = 199
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.20		0.00	0.000	1657886	2.393	BV	0.52
2	3.80		0.00	0.000	4004	0.006	VB	0.06
3	4.53		0.00	0.000	2357	0.003	BB	0.09
4	4.80		0.00	0.000	2174069	3.138	BV	0.07
5	5.48		0.00	0.000	12731	0.018	VB	0.07
6	5.89		0.00	0.000	38248	0.055	BB	0.07
7	6.25		0.00	0.000	1363	0.002	BB	0.08
8	7.33		0.00	0.000	3496	0.005	BB	0.05
9	7.72		0.00	0.000	4601	0.007	BB	0.05
10	7.89	CL4XYL	0.28	10.280	2594737	3.745	BB	0.07
11	8.86		0.00	0.000	14924	0.022	BB	0.06
12	9.25	ABHC *	0.26	9.385	3563503	5.143	BB	0.06
13	10.00	LINDANE *	0.26	9.335	3330189	4.806	BV	0.06
14	10.25	BBHC	0.30	10.838	1712185	2.471	VV	0.07
15	10.65	DBHC *	0.26	9.385	3169355	4.574	VV	0.06
16	11.09	HPCL	0.29	10.593	3324286	4.798	VV	0.06
17	11.53		0.00	0.000	12612	0.018	VB	0.14
18	11.74	ALDRN *	0.26	9.321	3397774	4.904	BB	0.06
19	12.45		0.00	0.000	2852345	4.117	BV	0.06
20	12.85		0.00	0.000	55889	0.081	VV	0.09
21	13.02	HPCLE	0.30	10.965	3108815	4.487	VV	0.06
22	13.28		0.00	0.000	3289904	4.748	VV	0.06
23	13.55		0.00	0.000	3157202	4.557	VV	0.06
24	13.72		0.00	0.000	2839159	4.098	VV	0.06
25	13.82		0.00	0.000	3282718	4.738	VV	0.06
26	14.30		0.00	0.000	3081395	4.447	VB	0.06
27	14.76		0.00	0.000	2716563	3.921	BV	0.06
28	14.91		0.00	0.000	2373480	3.426	VV	0.06
29	15.21		0.00	0.000	2651087	3.826	VV	0.06
30	15.45	PPDDT	0.30	11.072	2573711	3.715	VV	0.05
31	15.90		0.00	0.000	77572	0.112	VV	0.15
32	16.02		0.00	0.000	2262469	3.265	VV	0.06
33	16.39		0.00	0.000	1350399	1.949	VV	0.06
34	16.74		0.00	0.000	4294	0.006	VB	0.06
35	16.87		0.00	0.000	2414428	3.485	BV	0.06
36	17.13		0.00	0.000	34268	0.049	VB	0.06
37	17.28		0.00	0.000	6812	0.010	BB	0.06
38	17.43		0.00	0.000	3171055	4.577	BB	0.06
39	18.04		0.00	0.000	4564	0.007	BB	0.12
40	19.06		0.00	0.000	2483	0.004	BB	0.15
41	19.21		0.00	0.000	22362	0.032	BV	0.07
42	19.40		0.00	0.000	5115	0.007	VB	0.10
43	19.68	CL10BP	0.24	8.825	2903768	4.191	BV	0.07
44	20.15		0.00	0.000	22303	0.032	VB	0.08
45	21.04		0.00	0.000	1841	0.003	BB	0.13
46	22.05		0.00	0.000	1348	0.002	BB	0.06
47	22.24		0.00	0.000	1881	0.003	BB	0.13

Total Area = 6.928754E+07 Total Height = 1.665189E+07 Total Amount = 2.746176


G:\CP1\HP9\I140425.0003.BND
0.125 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.21
3.80
4.81
5.49
5.89
6.57
7.33
7.72
7.89
8.71
8.87
9.26
10.01
10.25
10.65
11.09
11.53
11.74
12.28
12.45
13.02
13.28
13.52
14.30
14.76
14.91
15.21
15.45
15.83
16.02
16.39
16.86
17.13
17.43
18.12
19.68
20.16
20.56
22.34

Sample Name = **0.125 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

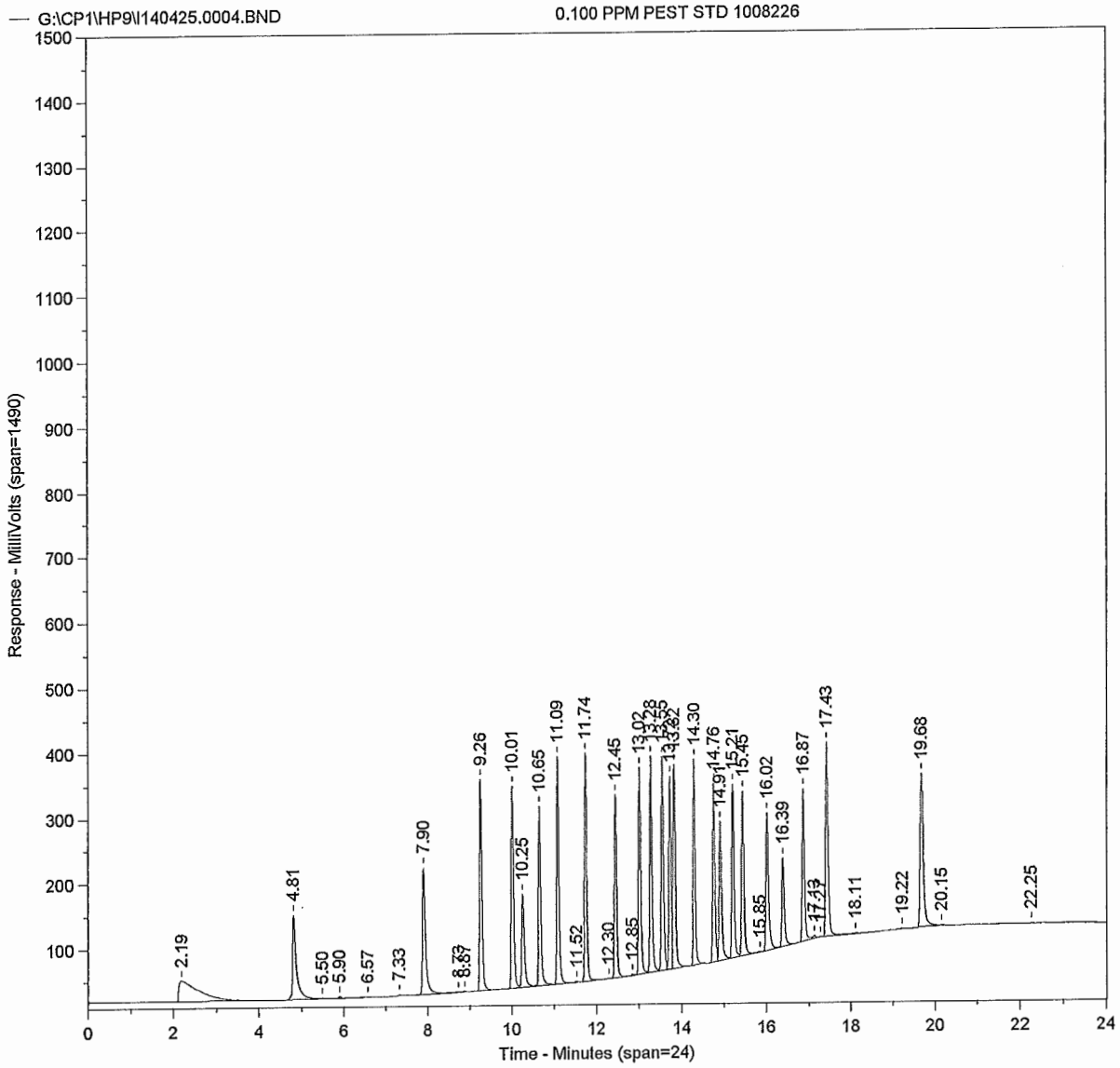
Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0003.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 12:56:31 PM
Method Version = 199
Calibration Version = 3

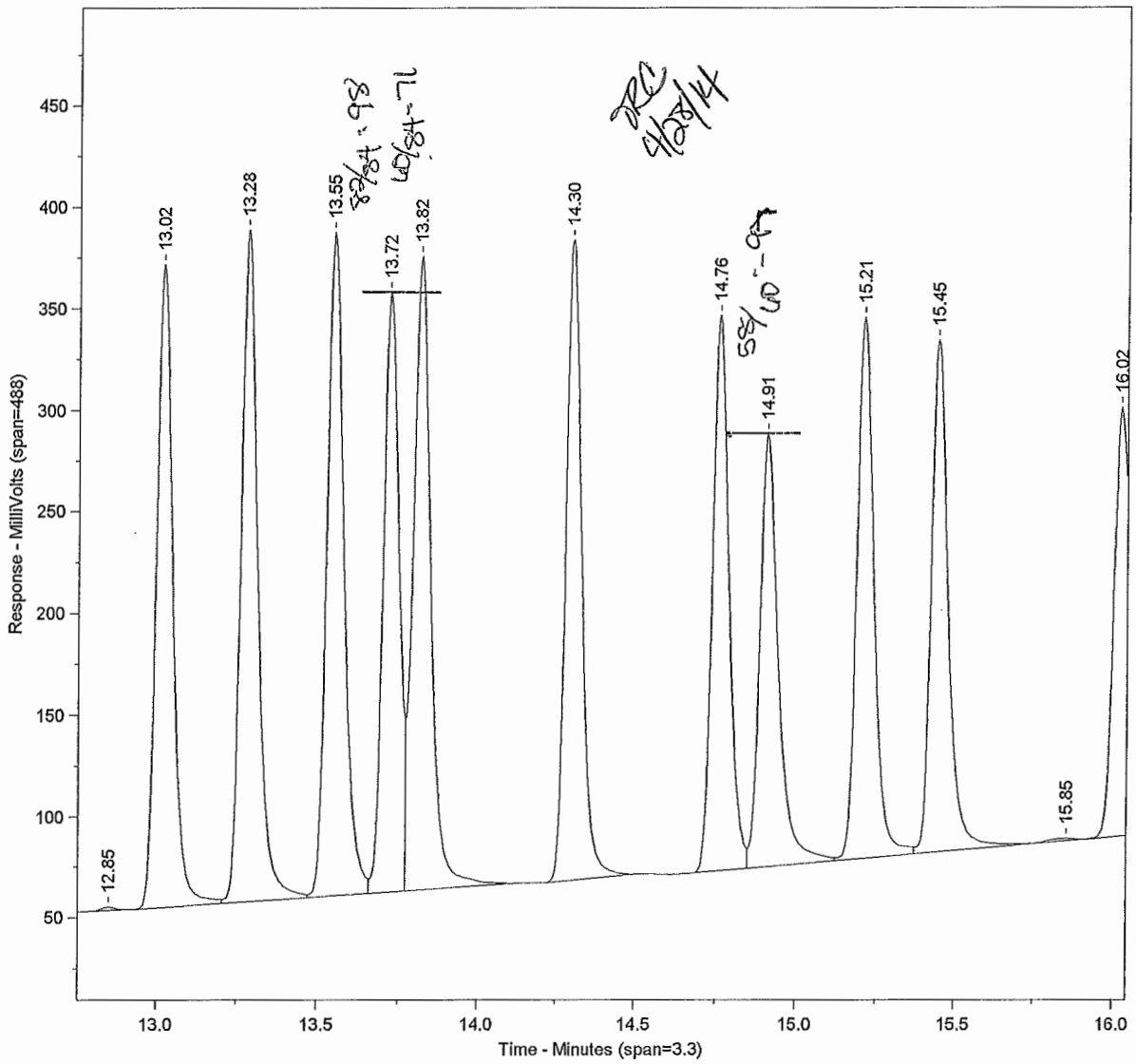
Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.21		0.00	0.000	1019055	3.410	BV	0.50
2	3.80		0.00	0.000	1476	0.005	VB	0.05
3	4.81		0.00	0.000	982424	3.287	BV	0.07
4	5.49		0.00	0.000	7410	0.025	VB	0.08
5	5.89		0.00	0.000	17308	0.058	BV	0.07
6	6.57		0.00	0.000	8449	0.028	VB	0.32
7	7.33		0.00	0.000	2681	0.009	BB	0.05
8	7.72		0.00	0.000	2465	0.008	BV	0.07
9	7.89	CL4XYL	0.13	10.537	1153532	3.860	VV	0.07
10	8.71		0.00	0.000	16054	0.054	VV	0.14
11	8.87		0.00	0.000	8481	0.028	VB	0.06
12	9.26	ABHC *	0.11	9.349	1422914	4.761	BB	0.06
13	10.01	LINDANE *	0.11	9.491	1379416	4.616	BV	0.06
14	10.25	BBHC	0.13	10.639	729031	2.440	VV	0.06
15	10.65	DBHC *	0.11	9.339	1263336	4.227	VV	0.06
16	11.09	HPCL	0.12	10.359	1410133	4.719	VV	0.05
17	11.53		0.00	0.000	8429	0.028	VB	0.10
18	11.74	ALDRN *	0.11	9.546	1428755	4.781	BV	0.05
19	12.28		0.00	0.000	5842	0.020	VB	0.14
20	12.45		0.00	0.000	1199037	4.012	BV	0.05
21	12.75		0.00	0.000	2339	0.008	VV	0.05
22	12.85		0.00	0.000	6741	0.023	VB	0.08
23	13.02	HPCLE	0.13	10.676	1312924	4.393	BV	0.05
24	13.28		0.00	0.000	1395696	4.670	VV	0.05
25	13.55		0.00	0.000	1377273	4.609	VV	0.06
26	13.72		0.00	0.000	1171829	3.921	VV	0.05
27	13.82		0.00	0.000	1394578	4.667	VB	0.06
28	14.30		0.00	0.000	1293522	4.328	BB	0.05
29	14.76		0.00	0.000	1121349	3.752	BV	0.05
30	14.91		0.00	0.000	988193	3.307	VV	0.06
31	15.21		0.00	0.000	1149556	3.847	VV	0.06
32	15.45	PPDDT	0.13	10.604	1069168	3.578	VV	0.05
33	15.83		0.00	0.000	6007	0.020	VB	0.10
34	16.02		0.00	0.000	1004123	3.360	BV	0.06
35	16.39		0.00	0.000	607234	2.032	VB	0.06
36	16.86		0.00	0.000	1030521	3.448	BV	0.06
37	17.13		0.00	0.000	21348	0.071	VB	0.06
38	17.43		0.00	0.000	1472443	4.927	BV	0.06
39	18.12		0.00	0.000	11462	0.038	VB	0.18
40	19.20		0.00	0.000	14474	0.048	BV	0.16
41	19.40		0.00	0.000	2431	0.008	VB	0.10
42	19.68	CL10BP	0.11	9.460	1350233	4.518	BV	0.07
43	20.16		0.00	0.000	11213	0.038	VB	0.07
44	20.56		0.00	0.000	824	0.003	BB	0.11
45	22.34		0.00	0.000	2596	0.009	BB	0.17

Total Area = 2.98843E+07 Total Height = 7325499 Total Amount = 1.191178


G:\CP1\HP9\I140425.0004.BND
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.19
4.81
5.50
5.90
6.57
7.33
7.90
9.26
10.01
10.25
10.65
11.09
11.52
11.74
12.30
12.45
12.85
13.02
13.28
13.55
13.82
14.30
14.76
14.91
15.21
15.45
15.85
16.02
16.39
16.87
17.43
18.11
19.22
19.68
20.15
22.25

Chrom Perfect Chromatogram Report

— G:\CP1\HP9\I140425.0004.BND 0.100 PPM PEST STD 1008226



Printed on 4/28/14 12:53:35 PM

Page 1 of 1

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

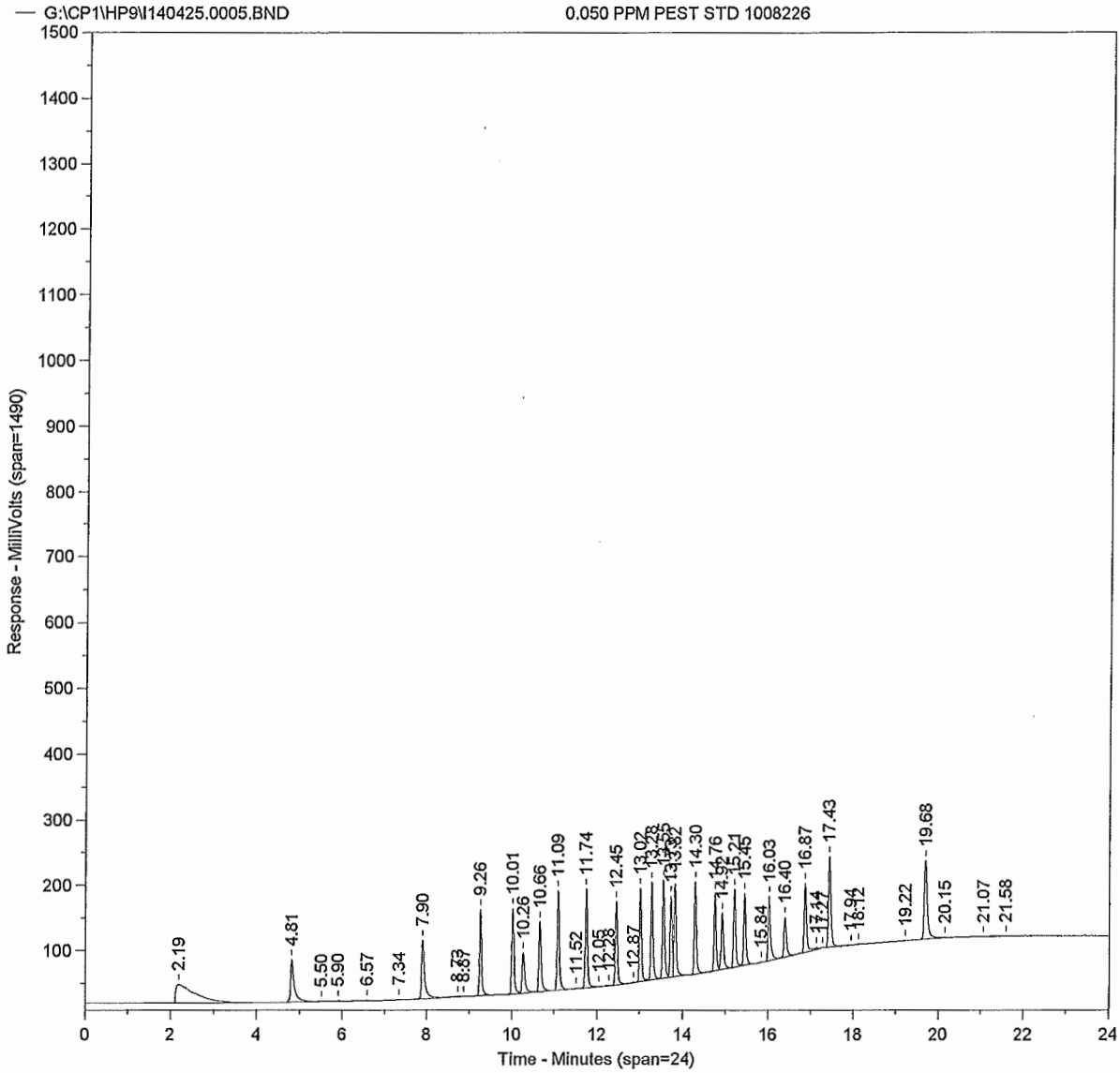
Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0004.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 1:23:52 PM
Method Version = 199
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.19		0.00	0.000	1050632	4.045	BB	0.51
2	4.81		0.00	0.000	838029	3.227	BV	0.08
3	5.50		0.00	0.000	5615	0.022	VB	0.09
4	5.90		0.00	0.000	14559	0.056	BV	0.08
5	6.57		0.00	0.000	10905	0.042	VB	0.36
6	7.33		0.00	0.000	3002	0.012	BB	0.05
7	7.90	CL4XYL	0.11	10.391	991947	3.819	BV	0.07
8	8.73		0.00	0.000	17650	0.068	VV	0.16
9	8.87		0.00	0.000	7119	0.027	VB	0.05
10	9.26	ABHC *	0.10	9.462	1231408	4.741	BB	0.06
11	10.01	LINDANE *	0.10	9.577	1194568	4.600	BV	0.06
12	10.25	BBHC	0.11	10.592	632858	2.437	VV	0.06
13	10.65	DBHC *	0.10	9.459	1094133	4.213	VV	0.06
14	11.09	HPCL	0.11	10.425	1237383	4.764	VV	0.05
15	11.52		0.00	0.000	13293	0.051	VB	0.10
16	11.74	ALDRN *	0.10	9.576	1231607	4.742	BV	0.05
17	12.30		0.00	0.000	5527	0.021	VB	0.12
18	12.45		0.00	0.000	1001071	3.854	BV	0.05
19	12.85		0.00	0.000	7622	0.029	VB	0.09
20	13.02	HPCLE	0.11	10.528	1128886	4.347	BV	0.05
21	13.28		0.00	0.000	1203596	4.634	VV	0.05
22	13.55		0.00	0.000	1187404	4.572	VV	0.05
23	13.72		0.00	0.000	1001243	3.855	VV	0.05
24	13.82		0.00	0.000	1196671	4.608	VB	0.06
25	14.30		0.00	0.000	1113076	4.286	BB	0.05
26	14.76		0.00	0.000	968433	3.729	BV	0.05
27	14.91		0.00	0.000	852970	3.284	VV	0.06
28	15.21		0.00	0.000	991317	3.817	VV	0.06
29	15.45	PPDDT	0.11	10.628	934343	3.598	VV	0.05
30	15.85		0.00	0.000	6454	0.025	VB	0.11
31	16.02		0.00	0.000	880055	3.389	BV	0.06
32	16.39		0.00	0.000	538903	2.075	VV	0.06
33	16.87		0.00	0.000	895255	3.447	VV	0.06
34	17.13		0.00	0.000	19696	0.076	VB	0.06
35	17.27		0.00	0.000	1039	0.004	BB	0.04
36	17.43		0.00	0.000	1268770	4.885	BV	0.06
37	18.11		0.00	0.000	12609	0.049	VB	0.15
38	19.22		0.00	0.000	7768	0.030	BB	0.11
39	19.68	CL10BP	0.10	9.361	1164998	4.486	BV	0.07
40	20.15		0.00	0.000	8366	0.032	VB	0.07
41	22.25		0.00	0.000	822	0.003	BB	0.04

Total Area = 2.59716E+07 Total Height = 6425746 Total Amount = 1.038625


G:\CP1\HP9\I140425.0005.BND
0.050 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.19
4.81
5.50
5.90
6.57
7.34
7.90
8.73
8.87
9.26
10.01
10.26
10.66
11.09
11.52
11.74
12.05
12.28
12.45
12.87
13.02
13.28
13.43
13.65
13.82
14.30
14.76
14.92
15.21
15.45
15.84
16.03
16.40
16.87
17.14
17.43
17.94
18.12
19.22
19.68
20.15
21.07
21.58

Sample Name = **0.050 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

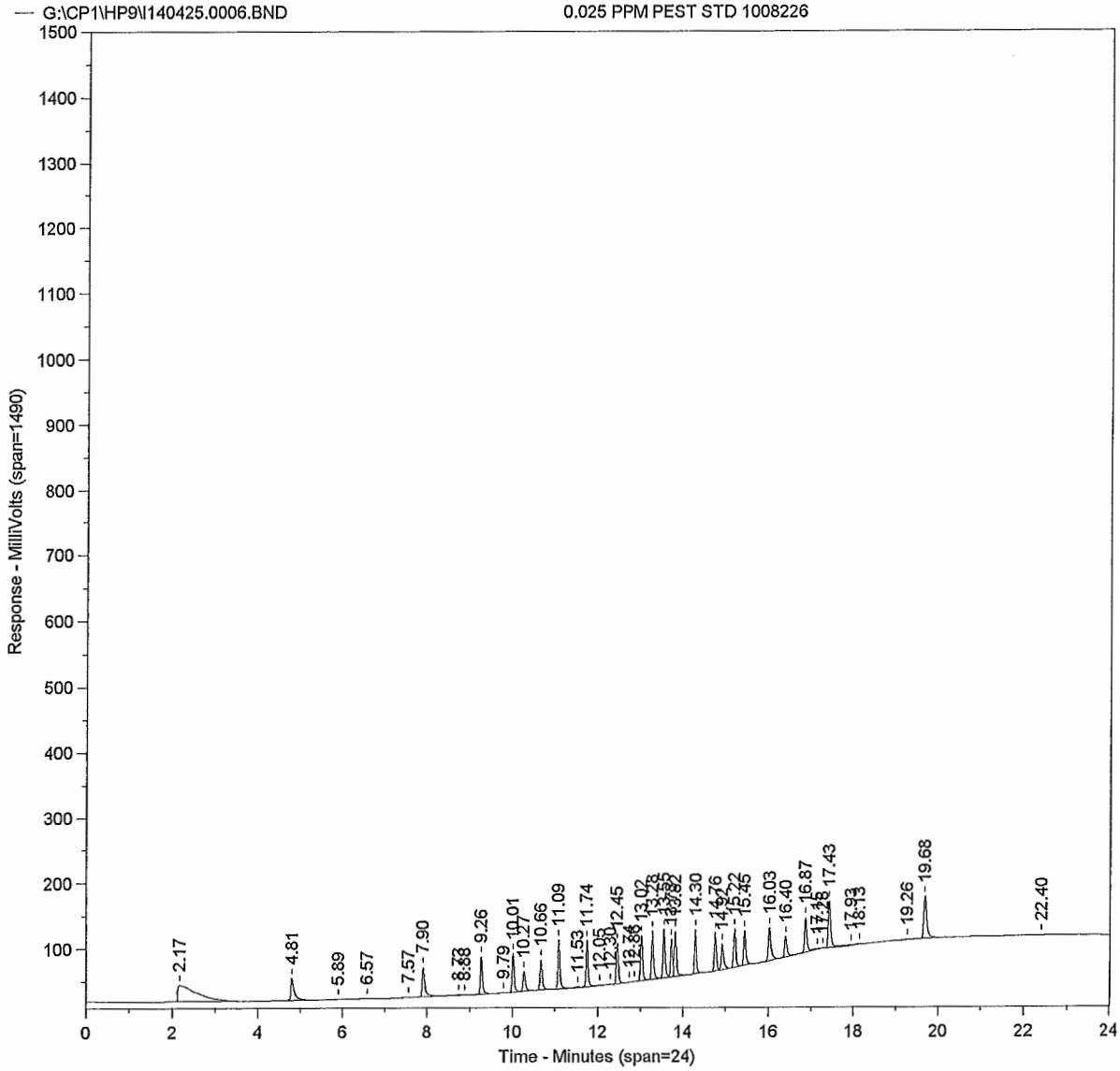
Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0005.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 1:51:10 PM
Method Version = 199
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.19		0.00	0.000	897676	7.663	BB	0.49
2	4.81		0.00	0.000	396073	3.381	BV	0.07
3	5.50		0.00	0.000	2915	0.025	VB	0.21
4	5.90		0.00	0.000	6545	0.056	BV	0.08
5	6.57		0.00	0.000	9974	0.085	VB	0.36
6	7.34		0.00	0.000	1503	0.013	BB	0.08
7	7.90	CL4XYL	0.05	10.471	452760	3.865	BV	0.06
8	8.73		0.00	0.000	15673	0.134	VV	0.18
9	8.87		0.00	0.000	5115	0.044	VB	0.06
10	9.26	ABHC *	0.05	9.723	463171	3.954	BB	0.05
11	10.01	LINDANE *	0.05	9.928	476361	4.066	BV	0.05
12	10.26	BBHC	0.05	9.981	270127	2.306	VV	0.06
13	10.66	DBHC *	0.05	9.841	418234	3.570	VB	0.05
14	11.09	HPCL	0.05	9.905	532555	4.546	BV	0.05
15	11.52		0.00	0.000	7522	0.064	VB	0.13
16	11.74	ALDRN *	0.05	10.008	506722	4.325	BV	0.05
17	12.05		0.00	0.000	9663	0.082	VV	0.09
18	12.28		0.00	0.000	6410	0.055	VB	0.14
19	12.45		0.00	0.000	437613	3.735	BV	0.05
20	12.87		0.00	0.000	6379	0.054	VB	0.10
21	13.02	HPCLE	0.05	9.983	484886	4.139	BV	0.05
22	13.28		0.00	0.000	530885	4.532	VV	0.05
23	13.55		0.00	0.000	530884	4.532	VV	0.05
24	13.73		0.00	0.000	415810	3.549	VV	0.05
25	13.82		0.00	0.000	519432	4.434	VB	0.05
26	14.30		0.00	0.000	476824	4.070	BV	0.05
27	14.76		0.00	0.000	393580	3.360	VV	0.05
28	14.92		0.00	0.000	346345	2.956	VB	0.06
29	15.21		0.00	0.000	425406	3.631	BV	0.05
30	15.45	PPDDT	0.05	9.681	385548	3.291	VB	0.05
31	15.84		0.00	0.000	2617	0.022	BB	0.07
32	16.03		0.00	0.000	414416	3.537	BV	0.06
33	16.40		0.00	0.000	246286	2.102	VV	0.06
34	16.87		0.00	0.000	402481	3.436	VV	0.06
35	17.14		0.00	0.000	16684	0.142	VB	0.08
36	17.27		0.00	0.000	967	0.008	BB	0.03
37	17.43		0.00	0.000	579245	4.944	BV	0.06
38	17.94		0.00	0.000	5046	0.043	VB	0.12
39	18.12		0.00	0.000	5142	0.044	BB	0.14
40	19.22		0.00	0.000	4105	0.035	BB	0.12
41	19.68	CL10BP	0.05	10.480	590781	5.043	BV	0.07
42	20.15		0.00	0.000	4382	0.037	VB	0.08
43	21.07		0.00	0.000	7131	0.061	BV	0.34
44	21.58		0.00	0.000	3304	0.028	VB	0.24

Total Area = 1.171518E+07 Total Height = 2862770 Total Amount = 0.4704801


G:\CP1\HP9\I140425.0006.BND
0.025 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.17
4.81
5.89
6.57
7.57
7.90
8.88
9.26
9.79
10.01
10.66
11.09
11.53
11.74
12.05
12.45
13.02
14.30
16.03
16.40
16.87
17.43
17.93
18.13
19.26
19.68
22.40

Sample Name = **0.025 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

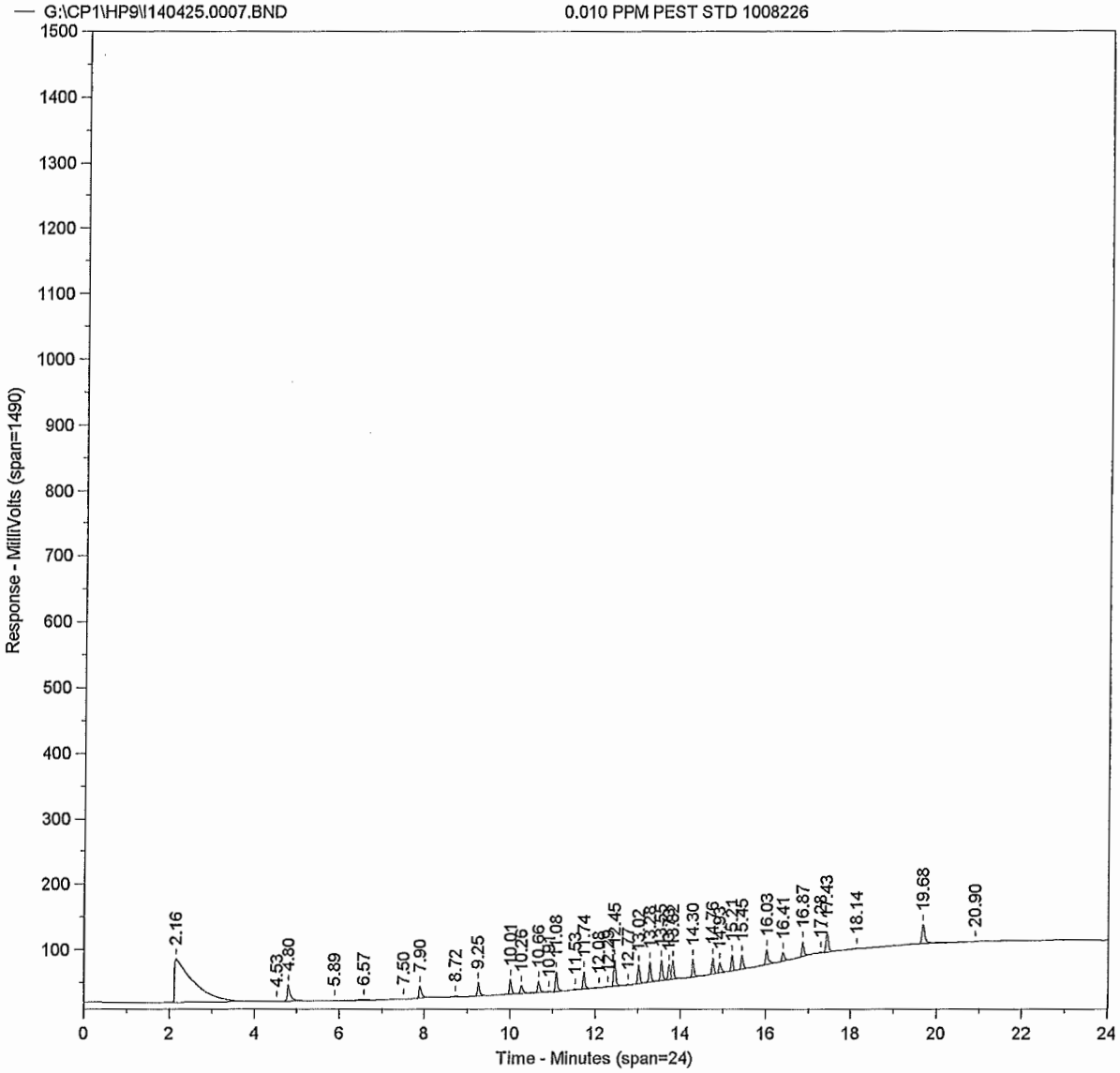
Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0006.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 2:18:41 PM
Method Version = 199
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.17		0.00	0.000	812237	13.547	BB	0.51
2	4.81		0.00	0.000	207088	3.454	BV	0.07
3	5.89		0.00	0.000	2448	0.041	VB	0.14
4	6.57		0.00	0.000	12073	0.201	BB	0.46
5	7.57		0.00	0.000	4110	0.069	BB	0.31
6	7.90	CL4XYL	0.02	9.906	223551	3.729	BV	0.06
7	8.73		0.00	0.000	14311	0.239	VV	0.24
8	8.88		0.00	0.000	2689	0.045	VB	0.06
9	9.26	ABHC *	0.03	11.230	197388	3.292	BV	0.05
10	9.79		0.00	0.000	2354	0.039	VB	0.20
11	10.01	LINDANE *	0.03	10.926	205726	3.431	BV	0.05
12	10.27	BBHC	0.02	8.569	121045	2.019	VB	0.06
13	10.66	DBHC *	0.03	10.997	167161	2.788	BB	0.05
14	11.09	HPCL	0.02	9.169	257272	4.291	BV	0.05
15	11.53		0.00	0.000	5401	0.090	VB	0.12
16	11.74	ALDRN *	0.03	10.957	227424	3.793	BV	0.05
17	12.05		0.00	0.000	5462	0.091	VV	0.13
18	12.30		0.00	0.000	4435	0.074	VB	0.13
19	12.45		0.00	0.000	203913	3.401	BV	0.05
20	12.74		0.00	0.000	2887	0.048	VB	0.10
21	12.86		0.00	0.000	1442	0.024	BV	0.05
22	13.02	HPCLE	0.02	8.800	223061	3.720	VV	0.05
23	13.28		0.00	0.000	254735	4.249	VV	0.05
24	13.55		0.00	0.000	256947	4.286	VV	0.05
25	13.73		0.00	0.000	184951	3.085	VV	0.05
26	13.82		0.00	0.000	247909	4.135	VB	0.05
27	14.30		0.00	0.000	219775	3.666	BB	0.05
28	14.76		0.00	0.000	190219	3.173	BV	0.05
29	14.92		0.00	0.000	166101	2.770	VB	0.06
30	15.22		0.00	0.000	205039	3.420	BV	0.05
31	15.45	PPDDT	0.02	8.924	185468	3.093	VB	0.05
32	16.03		0.00	0.000	207680	3.464	BB	0.06
33	16.40		0.00	0.000	129748	2.164	BV	0.06
34	16.87		0.00	0.000	207053	3.453	VV	0.06
35	17.15		0.00	0.000	14984	0.250	VB	0.13
36	17.28		0.00	0.000	1413	0.024	BB	0.06
37	17.43		0.00	0.000	290432	4.844	BV	0.06
38	17.93		0.00	0.000	10558	0.176	VB	0.15
39	18.13		0.00	0.000	5927	0.099	BB	0.12
40	19.26		0.00	0.000	2854	0.048	BB	0.11
41	19.68	CL10BP	0.03	10.523	309582	5.164	BB	0.07
42	22.40		0.00	0.000	692	0.012	BB	0.06

Total Area = 5995545 Total Height = 1397644 Total Amount = 0.2455391


G:\CP1\HP9\I140425.0007.BND
0.010 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.16
4.53
4.80
5.89
6.57
7.50
7.90
8.72
9.25
10.01
10.26
10.66
11.08
11.53
11.74
12.45
12.77
13.02
14.30
15.21
15.45
16.03
16.41
16.87
17.43
18.14
19.68
20.90

Sample Name = **0.010 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

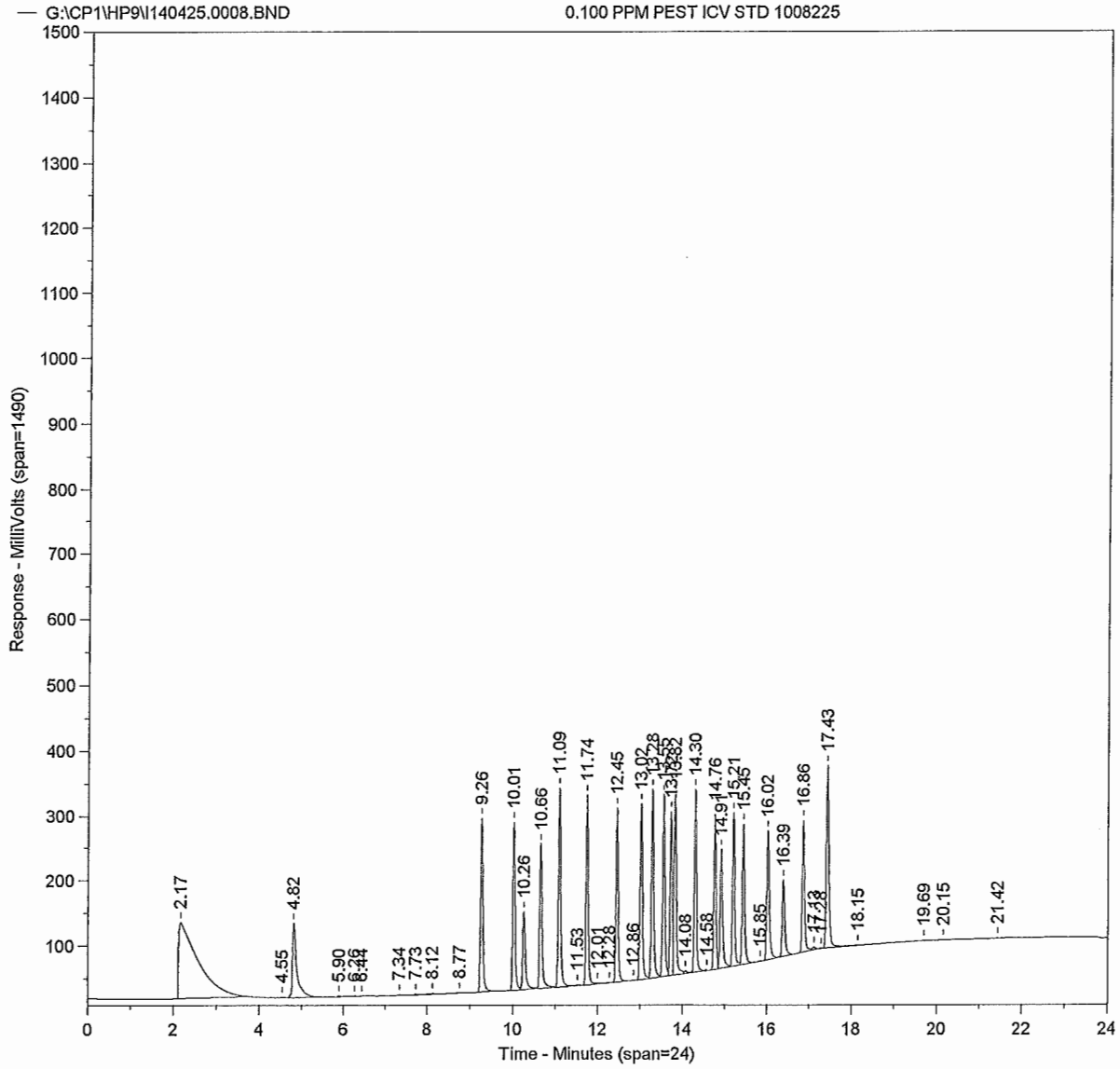
Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0007.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 2:45:58 PM
Method Version = 199
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.16		0.00	0.000	2035881	47.103	BB	0.44
2	4.53		0.00	0.000	1054	0.024	BV	0.10
3	4.80		0.00	0.000	145005	3.355	VB	0.07
4	5.89		0.00	0.000	1773	0.041	BB	0.09
5	6.57		0.00	0.000	14426	0.334	BB	0.55
6	7.50		0.00	0.000	1016	0.024	BB	0.17
7	7.90	CL4XYL	0.01	6.427	76208	1.763	BB	0.06
8	8.72		0.00	0.000	6418	0.148	BB	0.18
9	9.25	ABHC *	0.02	14.968	76500	1.770	BB	0.05
10	10.01	LINDANE *	0.02	13.632	79930	1.849	BV	0.05
11	10.26	BBHC	0.01	7.091	52622	1.217	VV	0.06
12	10.66	DBHC *	0.02	15.090	69126	1.599	VV	0.06
13	10.91		0.00	0.000	2581	0.060	VB	0.06
14	11.08	HPCL	0.01	7.240	106734	2.469	BB	0.05
15	11.53		0.00	0.000	9780	0.226	BB	0.14
16	11.74	ALDRN *	0.02	13.071	88447	2.046	BV	0.05
17	12.08		0.00	0.000	4370	0.101	VB	0.14
18	12.29		0.00	0.000	3974	0.092	BB	0.13
19	12.45		0.00	0.000	136849	3.166	BV	0.05
20	12.77		0.00	0.000	3890	0.090	VB	0.10
21	13.02	HPCLE	0.01	6.829	90951	2.104	BV	0.05
22	13.28		0.00	0.000	110521	2.557	VV	0.05
23	13.55		0.00	0.000	110271	2.551	VV	0.05
24	13.73		0.00	0.000	81218	1.879	VV	0.05
25	13.82		0.00	0.000	102775	2.378	VB	0.05
26	14.30		0.00	0.000	90946	2.104	BB	0.05
27	14.76		0.00	0.000	81887	1.895	BV	0.05
28	14.93		0.00	0.000	66184	1.531	VB	0.06
29	15.21		0.00	0.000	78435	1.815	BB	0.05
30	15.45	PPDDT	0.01	6.838	74670	1.728	BB	0.06
31	16.03		0.00	0.000	103487	2.394	BB	0.07
32	16.41		0.00	0.000	49089	1.136	BB	0.07
33	16.87		0.00	0.000	76586	1.772	BB	0.06
34	17.28		0.00	0.000	1807	0.042	BB	0.04
35	17.43		0.00	0.000	122250	2.828	BV	0.06
36	18.14		0.00	0.000	4202	0.097	VB	0.24
37	19.68	CL10BP	0.01	8.815	136262	3.153	BV	0.07
38	20.90		0.00	0.000	24060	0.557	VB	0.49

Total Area = 4322186 Total Height = 649053.8 Total Amount = 0.1290061


G:\CP1\HP9\I140425.0008.BND
0.100 PPM PEST ICV STD 1008225
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.17
4.55
4.82
5.90
7.34
7.73
8.12
8.77
9.26
10.01
10.26
10.66
11.09
11.53
11.74
12.01
12.28
12.45
12.86
13.02
13.28
13.52
13.82
14.08
14.30
14.58
14.76
14.91
15.21
15.45
15.85
16.02
16.39
16.86
17.13
17.18
17.43
18.15
19.69
20.15
21.42

Sample Name = **0.100 PPM PEST ICV STD 1008225**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0008.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 3:13:15 PM
Method Version = 199
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.17		0.00	0.000	3676296	15.449	BB	0.46
2	4.55		0.00	0.000	3870	0.016	BV	0.11
3	4.82		0.00	0.000	816695	3.432	VB	0.09
4	5.90		0.00	0.000	6765	0.028	BB	0.07
5	6.26		0.00	0.000	2501	0.011	BB	0.11
6	6.44		0.00	0.000	1983	0.008	BB	0.10
7	7.34		0.00	0.000	6984	0.029	BB	0.07
8	7.73		0.00	0.000	5052	0.021	BV	0.09
9	8.12		0.00	0.000	15900	0.067	VV	0.12
10	8.77		0.00	0.000	8082	0.034	VB	0.28
11	9.26	ABHC *	0.08	11.788	1030369	4.330	BB	0.06
12	10.01	LINDANE *	0.09	11.951	1007111	4.232	BV	0.06
13	10.26	BBHC	0.09	13.006	536512	2.255	VV	0.06
14	10.66	DBHC *	0.08	11.570	895334	3.763	VB	0.06
15	11.09	HPCL	0.10	13.451	1102306	4.632	BV	0.05
16	11.53		0.00	0.000	6904	0.029	VB	0.10
17	11.74	ALDRN *	0.09	11.924	1038443	4.364	BV	0.05
18	12.01		0.00	0.000	8523	0.036	VV	0.10
19	12.28		0.00	0.000	5857	0.025	VB	0.13
20	12.45		0.00	0.000	969516	4.074	BV	0.05
21	12.86		0.00	0.000	3401	0.014	VB	0.10
22	13.02	HPCLE	0.09	13.158	974114	4.094	BV	0.05
23	13.28		0.00	0.000	1065359	4.477	VV	0.05
24	13.55		0.00	0.000	1037488	4.360	VV	0.06
25	13.72		0.00	0.000	859796	3.613	VV	0.05
26	13.82		0.00	0.000	1088780	4.575	VV	0.06
27	14.08		0.00	0.000	20109	0.085	VV	0.05
28	14.30		0.00	0.000	991574	4.167	VV	0.05
29	14.58		0.00	0.000	5256	0.022	VB	0.07
30	14.76		0.00	0.000	833530	3.503	BV	0.05
31	14.91		0.00	0.000	736545	3.095	VV	0.06
32	15.21		0.00	0.000	861575	3.621	VV	0.05
33	15.45	PPDDT	0.09	13.109	795719	3.344	VV	0.05
34	15.85		0.00	0.000	6740	0.028	VB	0.11
35	16.02		0.00	0.000	825384	3.469	BV	0.06
36	16.39		0.00	0.000	481681	2.024	VV	0.06
37	16.86		0.00	0.000	775107	3.257	VV	0.06
38	17.13		0.00	0.000	17983	0.076	VB	0.06
39	17.28		0.00	0.000	1344	0.006	BB	0.06
40	17.43		0.00	0.000	1212505	5.095	BV	0.06
41	18.15		0.00	0.000	9154	0.038	VB	0.19
42	19.69	CL10BP	0.00	0.044	3784	0.016	BV	0.15
43	20.15		0.00	0.000	14152	0.059	VV	0.21
44	21.42		0.00	0.000	29893	0.126	VB	0.68

Total Area = 2.379597E+07 Total Height = 5304283 Total Amount = 0.7170947

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST ICV STD 1008225**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140425.0008.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 3:13:15 PM
Method Version = 199
Method Date = 4/25/14 7:42:45 AM
Calibration Version = 3
Calibration Date = 4/28/14 11:36:25 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

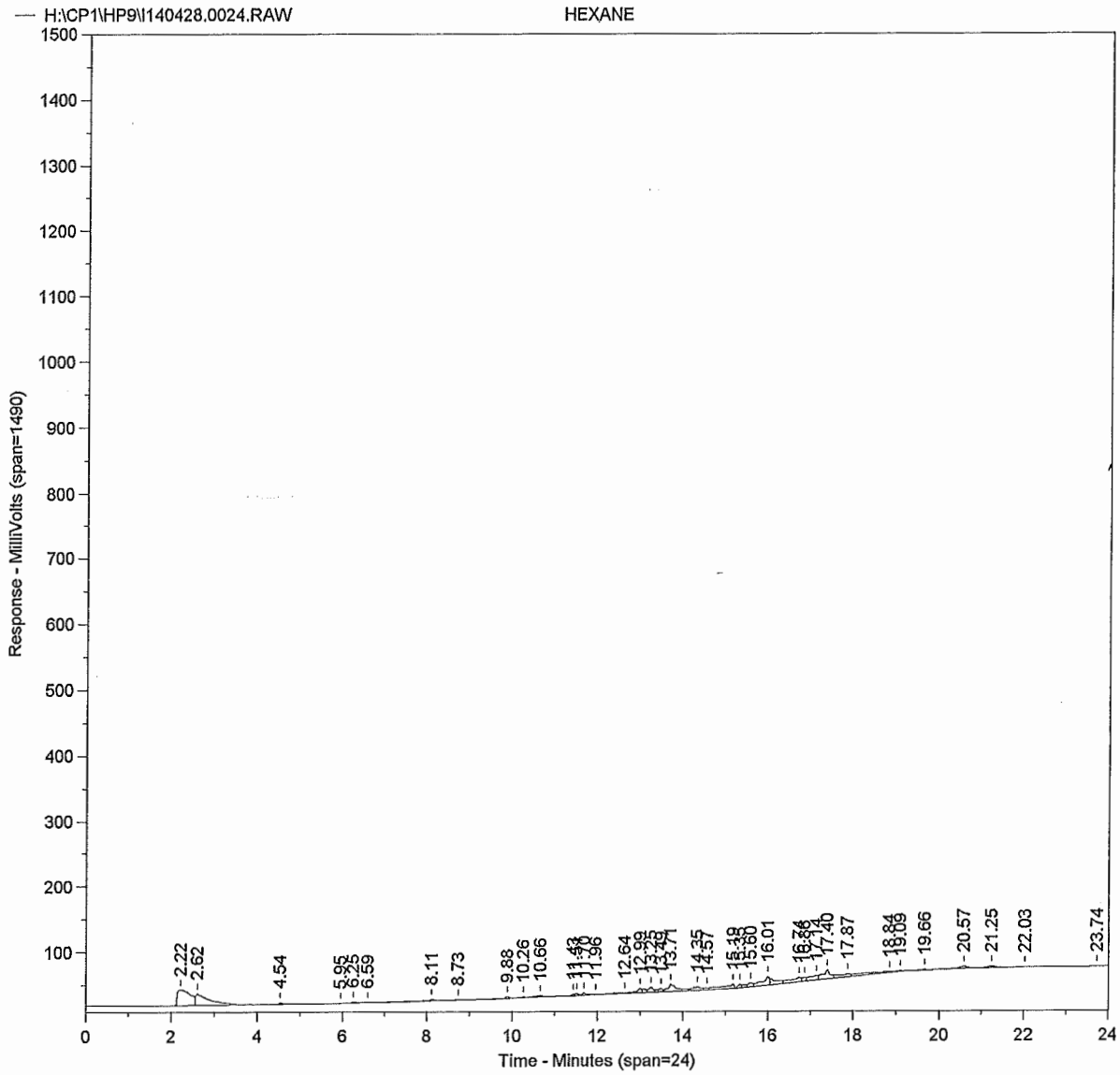
Dilution Factor = 1

Operator =

Peak #	Ret. Time min.	Peak Name	Peak Area	Response ug/ml	% Recovery	True Value (0.1 ppm)	CF
11	9.26	ABHC *	1030369	0.085	85	0.1 ppm	10460059
12	10.01	LINDANE *	1007111	0.086	86	0.1 ppm	10341835
13	10.26	BBHC	536512	0.093	93	0.1 ppm	5752682
14	10.66	DBHC *	895334	0.083	83	0.1 ppm	9281534
15	11.09	HPCL	1102306	0.096	96	0.1 ppm	11427910
17	11.74	ALDRN *	1038443	0.086	86	0.1 ppm	10902218
22	13.02	HPCLE	974114	0.094	94	0.1 ppm	10323798
33	15.45	PPDDT	795719	0.094	94	0.1 ppm	8464711
42	19.69	CL10BP	3784	0.000	0	0.1 ppm	11981994

* Linear Regression

Checked By: TRC Date: 4/28/14


H:\CP1\HP9\I140428.0024.RAW
HEXANE
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.22
2.62
4.54
5.95
6.25
6.59
8.11
8.73
9.88
10.26
10.66
11.96
12.64
13.71
14.57
16.01
17.40
17.87
19.66
20.57
21.25
22.03
23.74

Sample Name = **HEXANE**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

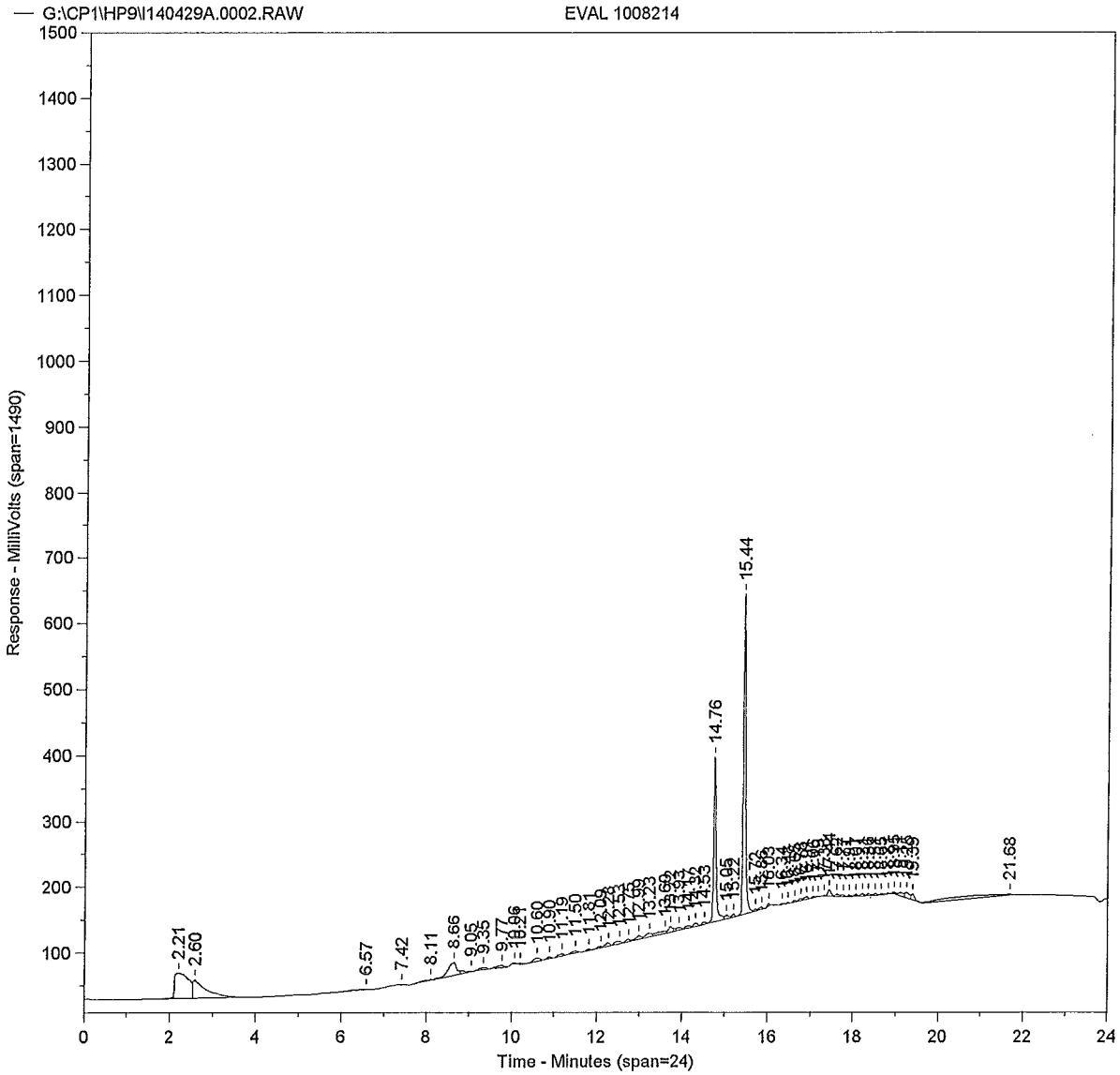
Acquisition Port = 1

Raw File Name = **H:\CP1\HP9\I140428.0024.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 9:25:28 AM
Method Version = 211
Calibration Version = 11

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.22		0.00	0.000	501793	18.560	BV	0.42
2	2.62		0.00	0.000	418416	15.476	VB	0.30
3	4.54		0.00	0.000	16437	0.608	BB	0.14
4	5.95		0.00	0.000	1921	0.071	BB	0.08
5	6.25		0.00	0.000	17166	0.635	BV	0.14
6	6.59		0.00	0.000	5409	0.200	VB	0.15
7	8.11		0.00	0.000	40739	1.507	BB	0.41
8	8.73		0.00	0.000	3339	0.123	BB	0.16
9	9.88		0.00	0.000	17470	0.646	BV	0.16
10	10.26	BBHC	0.00	4.765	9820	0.363	VV	0.12
11	10.66	DBHC *	0.02	45.959	30039	1.111	VB	0.17
12	11.43		0.00	0.000	9837	0.364	BV	0.07
13	11.51		0.00	0.000	20239	0.749	VV	0.08
14	11.70	ALDRN *	0.01	32.842	17896	0.662	VV	0.07
15	11.96		0.00	0.000	9589	0.355	VV	0.10
16	12.64		0.00	0.000	36099	1.335	VV	0.35
17	12.99	HPCLE	0.01	15.216	56272	2.081	VV	0.09
18	13.25		0.00	0.000	56984	2.108	VV	0.06
19	13.49		0.00	0.000	29249	1.082	VV	0.07
20	13.71		0.00	0.000	144233	5.335	VV	0.13
21	14.35		0.00	0.000	77561	2.869	VV	0.21
22	14.57		0.00	0.000	25116	0.929	VV	0.09
23	15.19		0.00	0.000	145565	5.384	VB	0.22
24	15.35		0.00	0.000	35481	1.312	BV	0.11
25	15.60		0.00	0.000	47990	1.775	VV	0.11
26	16.01		0.00	0.000	169770	6.279	VV	0.10
27	16.74		0.00	0.000	129402	4.786	VV	0.13
28	16.86		0.00	0.000	35230	1.303	VV	0.07
29	17.14		0.00	0.000	99393	3.676	VV	0.12
30	17.40		0.00	0.000	168392	6.228	VV	0.08
31	17.87		0.00	0.000	99476	3.679	VV	0.13
32	18.84		0.00	0.000	117846	4.359	VV	0.56
33	19.09		0.00	0.000	5565	0.206	VB	0.11
34	19.66	CL10BP	0.00	1.217	5224	0.193	BB	0.17
35	20.57		0.00	0.000	50398	1.864	BV	0.26
36	21.25		0.00	0.000	40842	1.511	VV	0.20
37	22.03		0.00	0.000	3731	0.138	VB	0.10
38	23.74		0.00	0.000	3713	0.137	BB	0.25

Total Area = 2703643 Total Height = 183139.8 Total Amount = 3.582101E-02


G:\CP1\HP9\I140429A.0002.RAW
EVAL 1008214
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.21
2.60
6.57
7.42
8.11
8.66
9.05
9.35
9.77
10.60
14.33
14.76
15.05
15.22
15.44
21.68

Primary

Sample Name = **EVAL 1008214**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0002.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 11:44:40 AM
Method Version = 210
Calibration Version = 4

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.21		0.00	0.000	899735	14.255	BV	0.43
2	2.60		0.00	0.000	580113	9.191	VB	0.27
3	6.57		0.00	0.000	34152	0.541	BB	0.45
4	7.42		0.00	0.000	8120	0.129	BB	0.18
5	8.11		0.00	0.000	37420	0.593	BV	0.30
6	8.66		0.00	0.000	304502	4.824	VV	0.32
7	9.05		0.00	0.000	5845	0.093	VB	0.07
8	9.35		0.00	0.000	27282	0.432	BB	0.20
9	9.77		0.00	0.000	38833	0.615	BB	0.28
10	10.06		0.00	0.000	3282	0.052	BV	0.06
11	10.21		0.00	0.000	5827	0.092	VB	0.12
12	10.60		0.00	0.000	56440	0.894	BV	0.24
13	10.90		0.00	0.000	20692	0.328	VB	0.15
14	11.19		0.00	0.000	36206	0.574	BB	0.22
15	11.50		0.00	0.000	30710	0.487	BB	0.21
16	11.81		0.00	0.000	16269	0.258	BV	0.11
17	12.09		0.00	0.000	23855	0.378	VV	0.15
18	12.28		0.00	0.000	39851	0.631	VB	0.12
19	12.53		0.00	0.000	41778	0.662	BV	0.20
20	12.75		0.00	0.000	26441	0.419	VV	0.14
21	12.99	HPCLE	0.00	1.945	44193	0.700	VV	0.14
22	13.23		0.00	0.000	57048	0.904	VV	0.15
23	13.60		0.00	0.000	68726	1.089	VV	0.20
24	13.72	DDE	0.00	0.000	54696	0.867	VV	0.11
25	13.93		0.00	0.000	31056	0.492	VV	0.13
26	14.17		0.00	0.000	27907	0.442	VV	0.14
27	14.32		0.00	0.000	31266	0.495	VB	0.11
28	14.53		0.00	0.000	25419	0.403	BB	0.15
29	14.76	ENDRN	0.00	0.000	1005194	15.925	BV	0.06
30	15.05		0.00	0.000	39888	0.632	VV	0.08
31	15.22		0.00	0.000	22740	0.360	VB	0.06
32	15.44	PPDDT	0.22	98.055	1826874	28.943	BV	0.05
33	15.72		0.00	0.000	17261	0.273	VV	0.08
34	15.86		0.00	0.000	23641	0.375	VB	0.13
35	16.03	ENDRNA	0.00	0.000	12186	0.193	BB	0.07
36	16.34		0.00	0.000	9461	0.150	BV	0.11
37	16.48		0.00	0.000	6333	0.100	VB	0.10
38	16.65		0.00	0.000	9858	0.156	BV	0.08
39	16.78		0.00	0.000	16690	0.264	VV	0.07
40	16.91		0.00	0.000	30457	0.483	VB	0.10
41	17.06		0.00	0.000	11544	0.183	BV	0.10
42	17.19		0.00	0.000	6482	0.103	VB	0.06
43	17.33		0.00	0.000	5540	0.088	BV	0.06
44	17.44	ENDRNK	0.00	0.000	54881	0.869	VV	0.08
45	17.62		0.00	0.000	23346	0.370	VV	0.07
46	17.77		0.00	0.000	10249	0.162	VB	0.07
47	17.91		0.00	0.000	7632	0.121	BV	0.08
48	18.07		0.00	0.000	11417	0.181	VV	0.09
49	18.21		0.00	0.000	17162	0.272	VV	0.08
50	18.36		0.00	0.000	12635	0.200	VB	0.09
51	18.51		0.00	0.000	9005	0.143	BV	0.07
52	18.65		0.00	0.000	8544	0.135	VB	0.07

JRC 4/29/14

Printed on 4/29/14 12:36:13 PM

DDT (54696) / (54696+1826874) = 2.9%

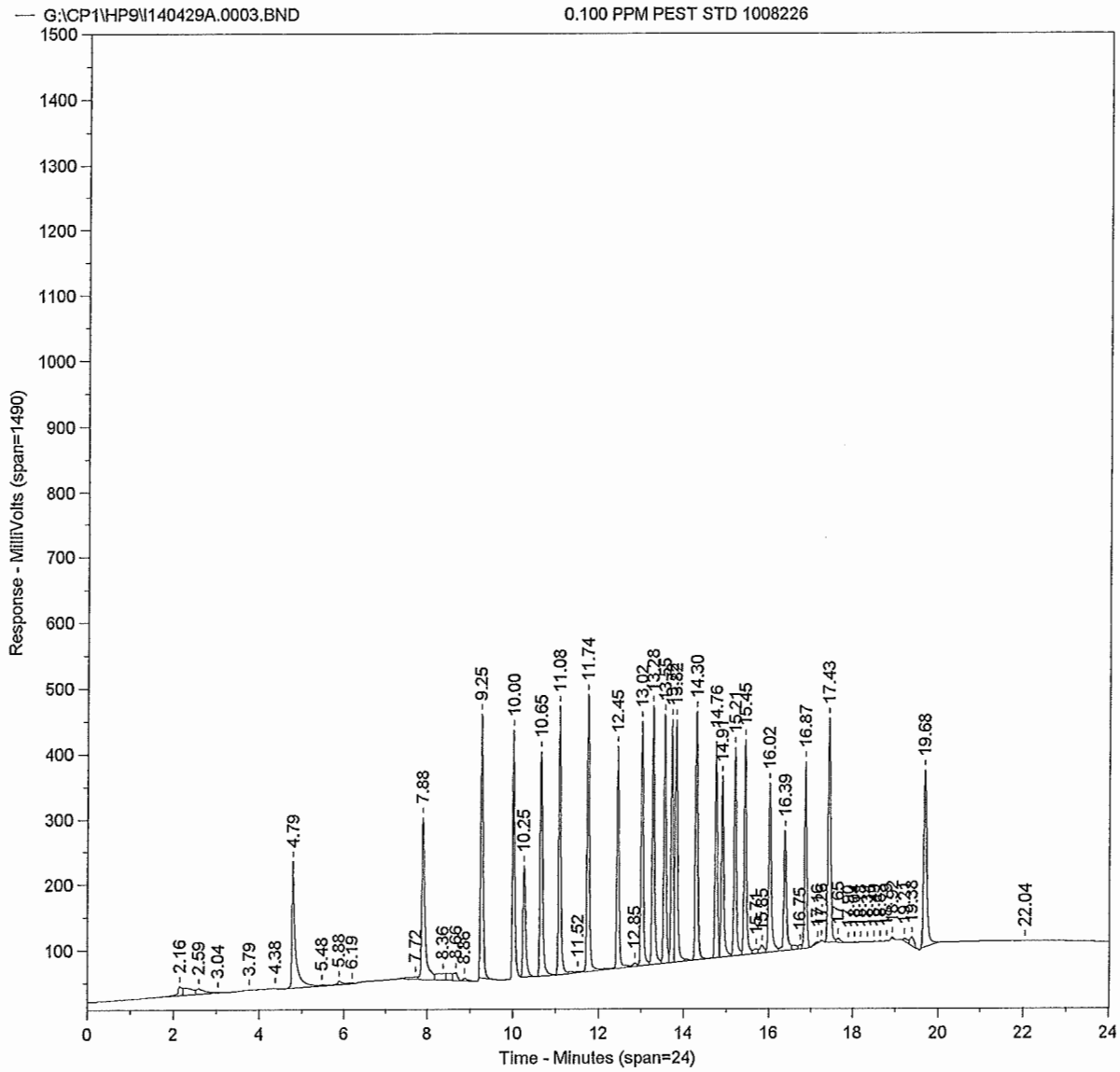
END (121886+54881) / (121886+54881+1005194) = 5.2%

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	18.81		0.00	0.000	7009	0.111	BB	0.08
54	18.95		0.00	0.000	15709	0.249	BV	0.08
55	19.11		0.00	0.000	44130	0.699	VV	0.06
56	19.25		0.00	0.000	66302	1.050	VV	0.10
57	19.39		0.00	0.000	48727	0.772	VB	0.10
58	21.68		0.00	0.000	353349	5.598	BB	1.61

Total Area = 6311912 Total Height = 1003234 Total Amount = 0.2201031

Chrom Perfect Chromatogram Report

FAIL 4/30/14



Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140429A.0003.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 1:22:44 PM
Method Version = 210
Calibration Version = 4

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.16		0.00	0.000	114253	0.374	BV	0.11
2	2.59		0.00	0.000	105806	0.347	VV	0.17
3	3.04		0.00	0.000	6447	0.021	VB	0.17
4	3.79		0.00	0.000	1987	0.007	BB	0.07
5	4.38		0.00	0.000	9210	0.030	BB	0.20
6	4.79		0.00	0.000	1092100	3.578	BV	0.06
7	5.48		0.00	0.000	15593	0.051	VV	0.09
8	5.88		0.00	0.000	53239	0.174	VV	0.10
9	6.19		0.00	0.000	18125	0.059	VB	0.18
10	7.72		0.00	0.000	68089	0.223	BV	0.30
11	7.88	CL4XYL	0.14	11.904	1294795	4.242	VV	0.07
12	8.36		0.00	0.000	155054	0.508	VV	0.17
13	8.66		0.00	0.000	87413	0.286	VV	0.13
14	8.86		0.00	0.000	30134	0.099	VB	0.10
15	9.25	ABHC *	0.12	10.035	1531053	5.015	BB	0.06
16	10.00	LINDANE *	0.03	2.859	301168	0.987	BB	0.04
17	10.25	BBHC	0.13	10.866	739724	2.423	BB	0.06
18	10.65	DBHC *	0.12	10.156	1379664	4.520	BB	0.06
19	11.08	HPCL	0.13	11.018	1490114	4.881	BV	0.05
20	11.52		0.00	0.000	9348	0.031	VV	0.09
21	11.74	ALDRN *	0.12	10.456	1567662	5.135	VV	0.05
22	12.45		0.00	0.000	1288010	4.219	VV	0.05
23	12.85		0.00	0.000	33240	0.109	VV	0.09
24	13.02	HPCLE	0.13	11.309	1381715	4.526	VV	0.05
25	13.28		0.00	0.000	1487813	4.874	VV	0.05
26	13.55		0.00	0.000	1426248	4.672	VV	0.06
27	13.72		0.00	0.000	1295194	4.243	VV	0.05
28	13.82		0.00	0.000	1444568	4.732	VV	0.06
29	14.30		0.00	0.000	1358411	4.450	VB	0.05
30	14.76		0.00	0.000	1205170	3.948	BV	0.06
31	14.91		0.00	0.000	1073169	3.516	VV	0.05
32	15.21		0.00	0.000	1203774	3.943	VV	0.06
33	15.45	PPDDT	0.14	12.143	1216412	3.985	VV	0.05
34	15.71		0.00	0.000	56997	0.187	VV	0.09
35	15.85		0.00	0.000	86447	0.283	VV	0.07
36	16.02		0.00	0.000	1097110	3.594	VV	0.06
37	16.39		0.00	0.000	741762	2.430	VV	0.05
38	16.75		0.00	0.000	37444	0.123	VV	0.07
39	16.87		0.00	0.000	1043128	3.417	VB	0.06
40	17.16		0.00	0.000	22099	0.072	BB	0.14
41	17.26		0.00	0.000	2343	0.008	BB	0.05
42	17.43		0.00	0.000	1426342	4.672	BV	0.06
43	17.65		0.00	0.000	41271	0.135	VV	0.11
44	17.90		0.00	0.000	4120	0.013	VB	0.09
45	18.04		0.00	0.000	4484	0.015	BV	0.09
46	18.18		0.00	0.000	9563	0.031	VV	0.10
47	18.34		0.00	0.000	7017	0.023	VV	0.08
48	18.49		0.00	0.000	5344	0.018	VV	0.07
49	18.63		0.00	0.000	5246	0.017	VB	0.06
50	18.79		0.00	0.000	3633	0.012	BB	0.09
51	18.92		0.00	0.000	3657	0.012	BB	0.05
52	19.21		0.00	0.000	39876	0.131	BV	0.09

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	19.38		0.00	0.000	87820	0.288	VB	0.14
54	19.68	CL10BP	0.11	9.252	1311882	4.298	BB	0.07
55	22.04		0.00	0.000	4262	0.014	BB	0.29

Total Area = 3.052655E+07 Total Height = 7671115 Total Amount = 1.183423

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **g:\CP1\HP9\I140429A.0003.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 1:22:44 PM
Method Version = 210
Method Date = 4/29/14 8:07:56 AM
Calibration Version = 4
Calibration Date = 4/29/14 7:16:26 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

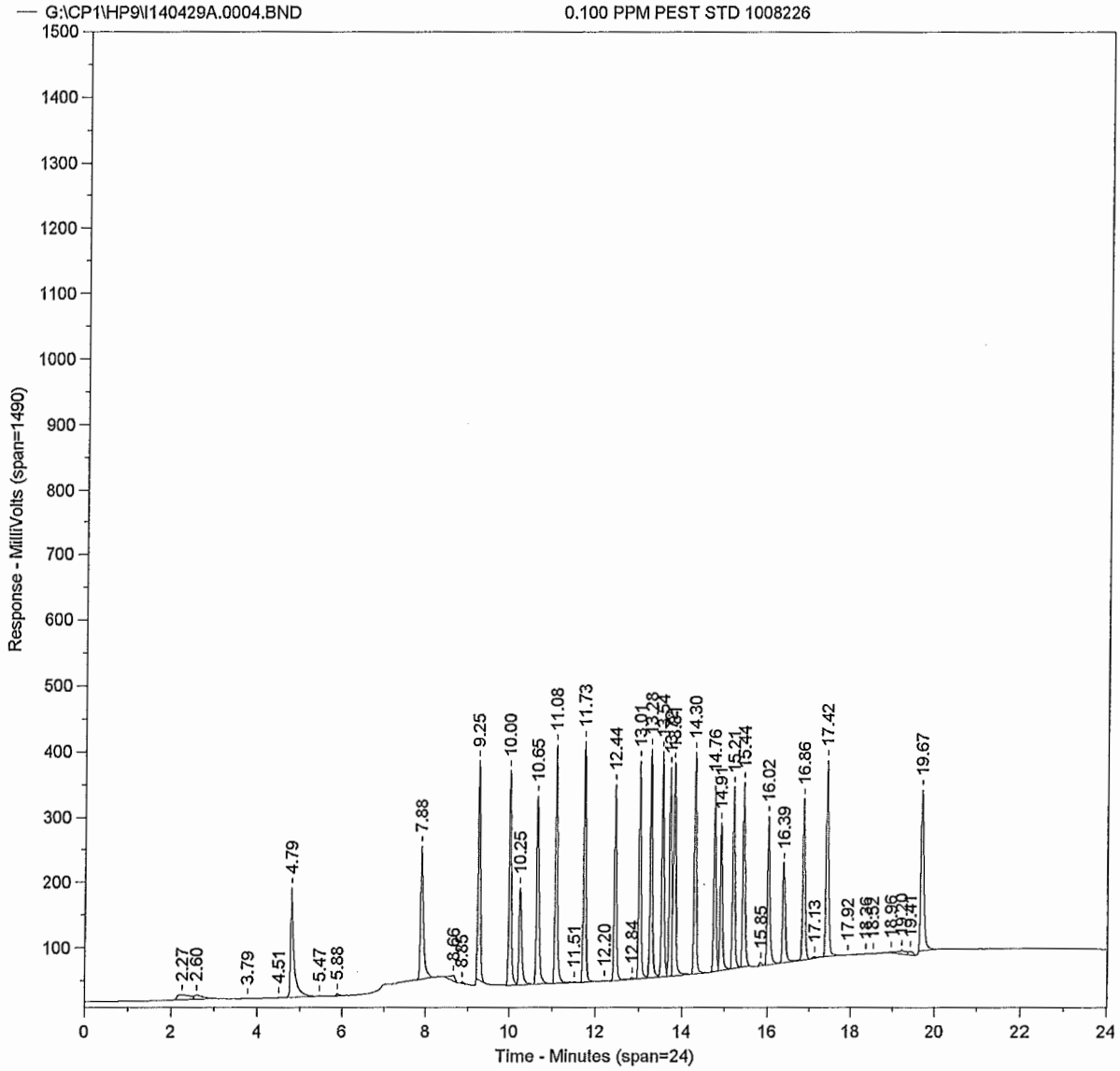
Dilution Factor = 1

Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
11	7.88	CL4XYL	0.141	1294795	40.9	9190794
15	9.25	ABHC *	0.119	1531053	18.8	10460059
16	10.00	LINDANE *	0.034	301168	-66.2	10341835
17	10.25	BBHC	0.129	739724	28.6	5752682
18	10.65	DBHC *	0.120	1379664	20.2	9281534
19	11.08	HPCL	0.130	1490114	30.4	11427910
21	11.74	ALDRN *	0.124	1567662	23.7	10902218
24	13.02	HPCLE	0.134	1381715	33.8	10323798
33	15.45	PPDDT	0.144	1216412	43.7	8464711
54	19.68	CL10BP	0.109	1311882	9.5	11981994

Checked By: TRC Date: 4/30/14

* Used Linear Regression


G:\CP1\HP9\I140429A.0004.BND
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.27
2.60
3.79
4.51
4.79
5.47
5.88
7.88
8.66
8.85
9.25
10.00
10.25
10.65
11.08
11.51
11.73
12.20
12.44
12.84
13.01
13.28
13.54
13.81
14.30
14.76
14.91
15.21
15.44
15.85
16.02
16.39
16.86
17.13
17.42
17.92
18.36
18.52
18.96
19.20
19.41
19.67

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0004.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 2:04:42 PM
Method Version = 210
Calibration Version = 4

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.27		0.00	0.000	147836	0.559	BV	0.40
2	2.60		0.00	0.000	78524	0.297	VB	0.20
3	3.79		0.00	0.000	792	0.003	BB	0.07
4	4.51		0.00	0.000	4460	0.017	BV	0.14
5	4.79		0.00	0.000	962691	3.643	VV	0.07
6	5.47		0.00	0.000	4700	0.018	VB	0.06
7	5.88		0.00	0.000	15954	0.060	BB	0.08
8	7.88	CL4XYL	0.11	9.953	986699	3.734	BB	0.07
9	8.66		0.00	0.000	81881	0.310	BB	0.29
10	8.85		0.00	0.000	13876	0.053	BB	0.13
11	9.25	ABHC *	0.10	9.098	1229433	4.653	BB	0.06
12	10.00	LINDANE *	0.10	9.702	1265116	4.788	BV	0.06
13	10.25	BBHC	0.11	10.619	658966	2.494	VB	0.06
14	10.65	DBHC *	0.10	9.575	1159683	4.389	BV	0.06
15	11.08	HPCL	0.11	10.631	1310510	4.959	VV	0.05
16	11.51		0.00	0.000	5103	0.019	VB	0.06
17	11.73	ALDRN *	0.10	9.641	1294356	4.898	BB	0.05
18	12.20		0.00	0.000	4935	0.019	BB	0.14
19	12.44		0.00	0.000	1053372	3.986	BV	0.05
20	12.84		0.00	0.000	9128	0.035	VV	0.07
21	13.01	HPCLE	0.11	10.533	1172966	4.439	VV	0.05
22	13.28		0.00	0.000	1268909	4.802	VV	0.05
23	13.54		0.00	0.000	1249945	4.730	VV	0.05
24	13.72		0.00	0.000	1089036	4.121	VV	0.05
25	13.81		0.00	0.000	1237446	4.683	VV	0.06
26	14.30		0.00	0.000	1177059	4.454	VB	0.05
27	14.76		0.00	0.000	1009203	3.819	BV	0.05
28	14.91		0.00	0.000	869145	3.289	VV	0.06
29	15.21		0.00	0.000	1001765	3.791	VV	0.05
30	15.44	PPDDT	0.12	10.901	995296	3.767	VB	0.05
31	15.85		0.00	0.000	21221	0.080	BV	0.08
32	16.02		0.00	0.000	912532	3.453	VV	0.06
33	16.39		0.00	0.000	590948	2.236	VV	0.06
34	16.86		0.00	0.000	921102	3.486	VB	0.06
35	17.13		0.00	0.000	14258	0.054	BB	0.15
36	17.42		0.00	0.000	1268796	4.802	BV	0.06
37	17.92		0.00	0.000	2640	0.010	VV	0.10
38	18.36		0.00	0.000	8205	0.031	VB	0.28
39	18.52		0.00	0.000	1900	0.007	BB	0.10
40	18.96		0.00	0.000	9234	0.035	BV	0.11
41	19.20		0.00	0.000	67991	0.257	VV	0.09
42	19.41		0.00	0.000	38982	0.148	VB	0.14
43	19.67	CL10BP	0.10	9.347	1208060	4.572	BB	0.07

Total Area = 2.642465E+07 Total Height = 6816371 Total Amount = 1.078676

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0004.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 2:04:42 PM
Method Version = 210
Method Date = 4/29/14 8:07:56 AM
Calibration Version = 4
Calibration Date = 4/29/14 7:16:26 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

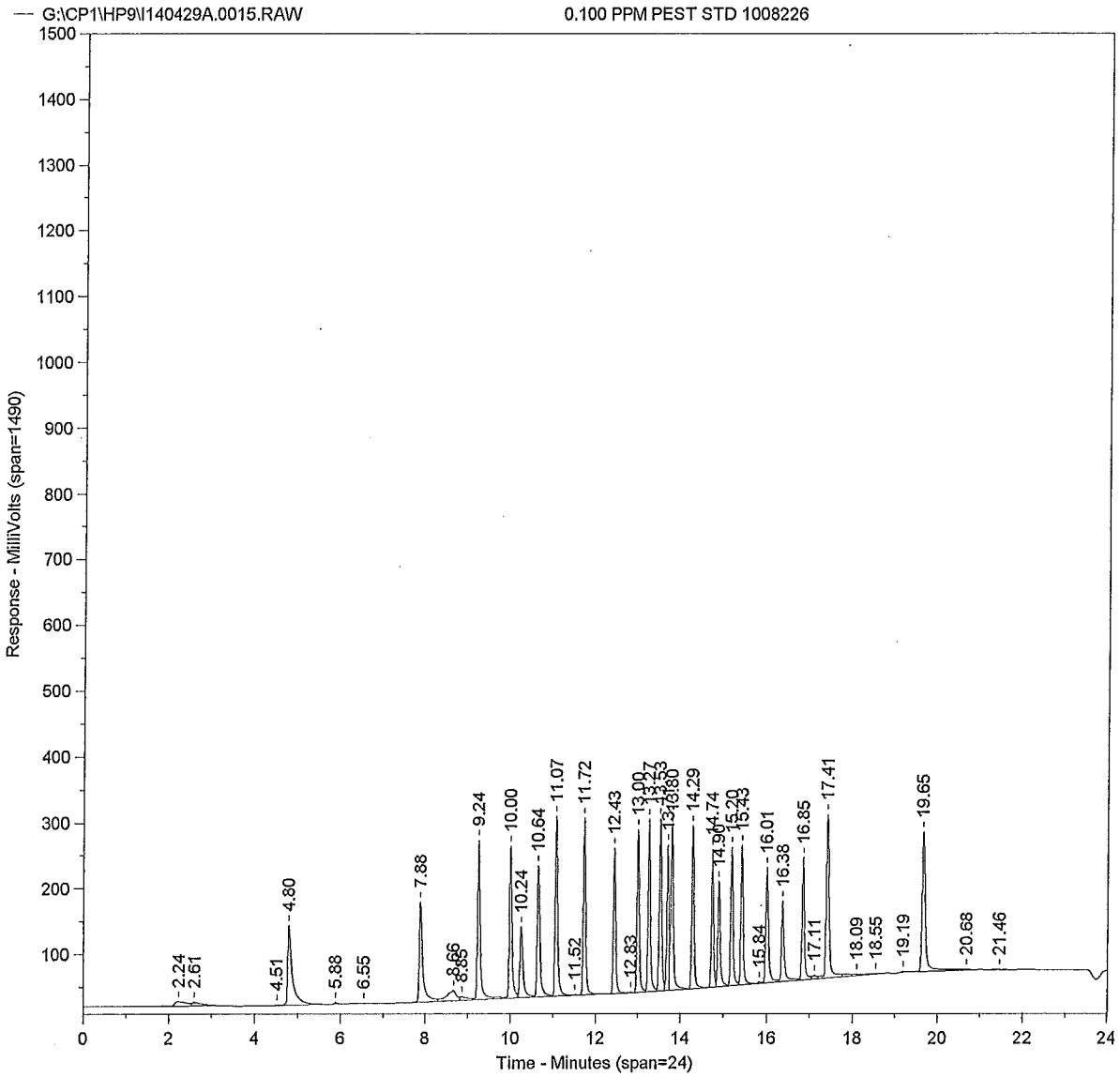
Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
8	7.88	CL4XYL	0.107	986699	7.4	9190794
11	9.25	ABHC *	0.098	1229433	-1.9	10460059
12	10.00	LINDANE *	0.105	1265116	4.7	10341835
13	10.25	BBHC	0.115	658966	14.5	5752682
14	10.65	DBHC *	0.103	1159683	3.3	9281534
15	11.08	HPCL	0.115	1310510	14.7	11427910
17	11.73	ALDRN *	0.104	1294356	4.0	10902218
21	13.01	HPCLE	0.114	1172966	13.6	10323798
30	15.44	PPDDT	0.118	995296	17.6	8464711
43	19.67	CL10BP	0.101	1208060	0.8	11981994

Checked By: TPC Date: 4/29/14

* Used Linear Regression

Chrom Perfect Chromatogram Report



Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0015.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 7:13:51 PM
Method Version = 211
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.24		0.00	0.000	148778	0.682	BV	0.41
2	2.61		0.00	0.000	104405	0.479	VB	0.26
3	4.51		0.00	0.000	2589	0.012	BV	0.13
4	4.80		0.00	0.000	891368	4.086	VV	0.09
5	5.88		0.00	0.000	13599	0.062	VV	0.09
6	6.55		0.00	0.000	14978	0.069	VB	0.25
7	7.88	CL4XYL	0.10	10.857	898207	4.118	BV	0.07
8	8.66		0.00	0.000	248323	1.138	VV	0.18
9	8.85		0.00	0.000	75402	0.346	VV	0.12
10	9.24	ABHC *	0.09	9.792	1083290	4.966	VV	0.06
11	10.00	LINDANE *	0.08	9.335	984393	4.513	VV	0.06
12	10.24	BBHC	0.10	10.740	556128	2.549	VV	0.07
13	10.64	DBHC *	0.08	9.012	871349	3.995	VV	0.06
14	11.07	HPCL	0.09	10.493	1079395	4.948	VV	0.06
15	11.52		0.00	0.000	7147	0.033	VB	0.07
16	11.72	ALDRN *	0.08	9.388	1024576	4.697	BB	0.06
17	12.43		0.00	0.000	845325	3.875	BV	0.06
18	12.83		0.00	0.000	6881	0.032	VB	0.06
19	13.00	HPCLE	0.09	9.920	921875	4.226	BV	0.05
20	13.27		0.00	0.000	1022026	4.685	VV	0.06
21	13.53		0.00	0.000	1001320	4.590	VV	0.06
22	13.71		0.00	0.000	763800	3.502	VV	0.05
23	13.80		0.00	0.000	1022431	4.687	VB	0.06
24	14.29		0.00	0.000	905366	4.151	BV	0.05
25	14.74		0.00	0.000	728686	3.341	VV	0.05
26	14.90		0.00	0.000	631791	2.896	VV	0.06
27	15.20		0.00	0.000	797489	3.656	VV	0.06
28	15.43	PPDDT	0.09	10.314	785892	3.603	VV	0.05
29	15.84		0.00	0.000	9862	0.045	VV	0.11
30	16.01		0.00	0.000	745708	3.419	VV	0.06
31	16.38		0.00	0.000	526306	2.413	VV	0.06
32	16.85		0.00	0.000	734152	3.366	VV	0.06
33	17.11		0.00	0.000	40762	0.187	VV	0.06
34	17.41		0.00	0.000	1148548	5.265	VV	0.06
35	18.09		0.00	0.000	22106	0.101	VV	0.15
36	18.55		0.00	0.000	27311	0.125	VB	0.33
37	19.19		0.00	0.000	8720	0.040	BB	0.13
38	19.65	CL10BP	0.09	10.149	1094606	5.018	BV	0.07
39	20.68		0.00	0.000	7236	0.033	VB	0.12
40	21.46		0.00	0.000	11167	0.051	BB	0.47

Total Area = 2.181329E+07 Total Height = 5109925 Total Amount = 0.9001502

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0015.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 7:13:51 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
7	7.88	CL4XYL	0.098	898207	-2.3	9190794
10	9.24	ABHC *	0.088	1083290	-11.9	10460059
11	10.00	LINDANE *	0.084	984393	-16.0	10341835
12	10.24	BBHC	0.097	556128	-3.3	5752682
13	10.64	DBHC *	0.081	871349	-18.9	9281534
14	11.07	HPCL	0.094	1079395	-5.5	11427910
16	11.72	ALDRN *	0.085	1024576	-15.5	10902218
19	13.00	HPCLE	0.089	921875	-10.7	10323798
28	15.43	PPDDT	0.093	785892	-7.2	8464711
38	19.65	CL10BP	0.091	1094606	-8.6	11981994

Checked By: BC Date: 4/30/14

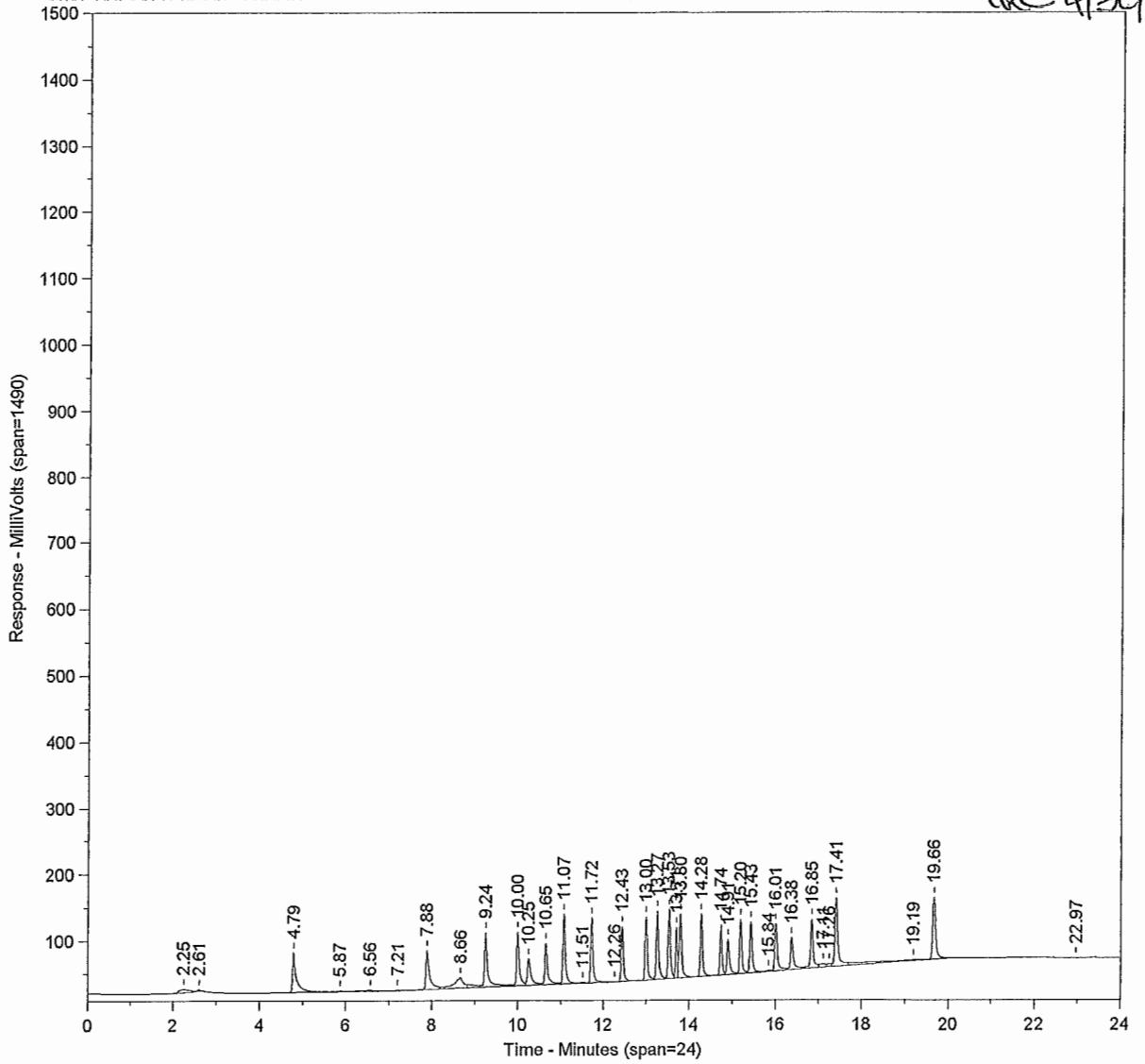
* Used Linear Regression

NOT EVAL

TRC 4/30/14

G:\CP1\HP9\I140429A.0016.RAW

0.050 PPM PEST STD 1008226



Sample Name = **0.050 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

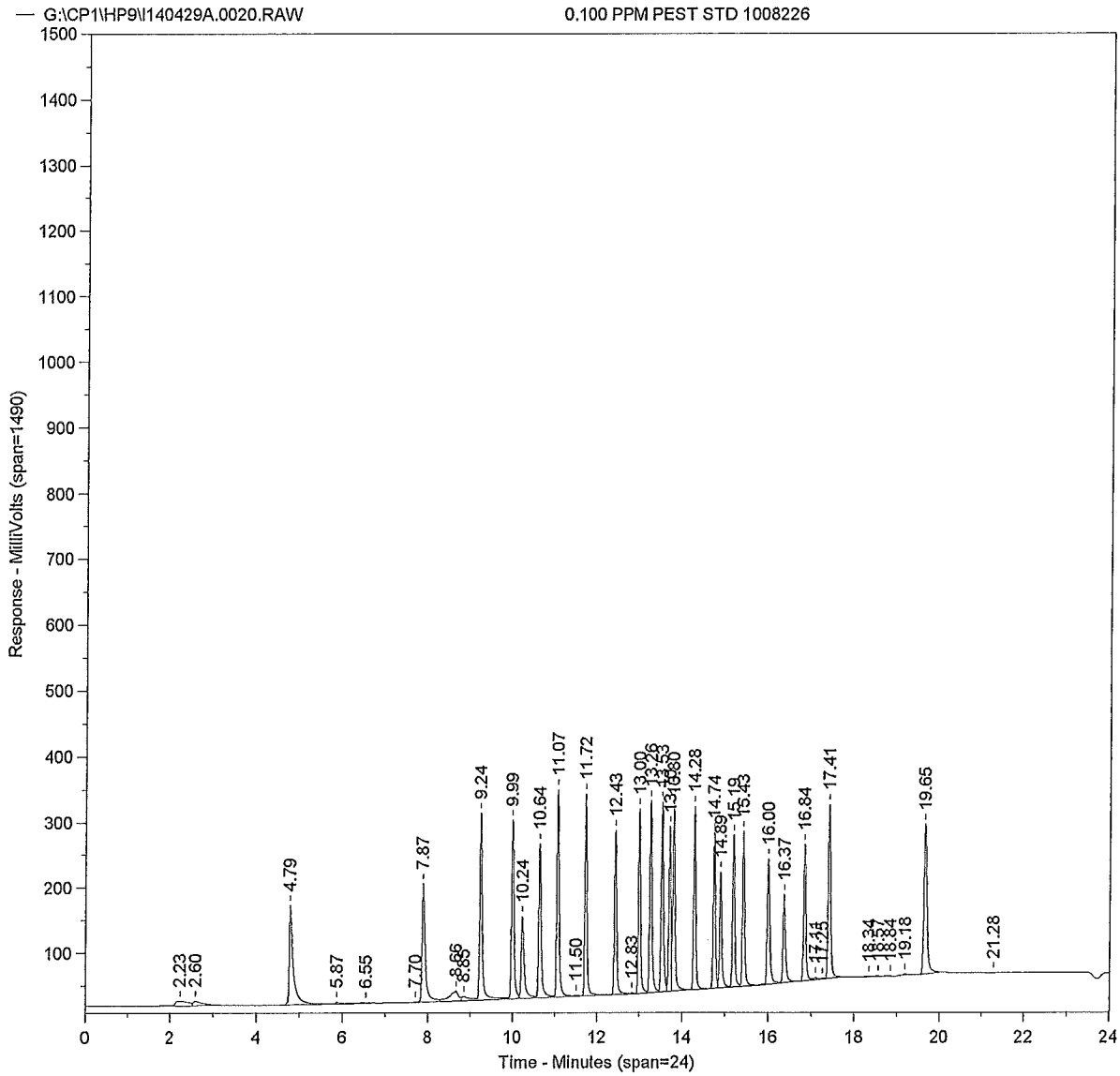
Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0016.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 7:41:11 PM
Method Version = 211
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.25		0.00	0.000	67391	0.760	BB	0.41
2	2.61		0.00	0.000	7486	0.084	BB	0.07
3	4.79		0.00	0.000	379421	4.279	BV	0.06
4	5.87		0.00	0.000	7421	0.084	VV	0.12
5	6.56		0.00	0.000	21972	0.248	VV	0.27
6	7.21		0.00	0.000	3279	0.037	VB	0.18
7	7.88	CL4XYL	0.04	10.356	364765	4.113	BV	0.08
8	8.66		0.00	0.000	238909	2.694	VV	0.18
9	9.24	ABHC *	0.04	11.133	418126	4.715	VV	0.06
10	10.00	LINDANE *	0.04	10.114	368170	4.152	VV	0.06
11	10.25	BBHC	0.04	10.724	236436	2.666	VV	0.07
12	10.65	DBHC *	0.04	9.748	301929	3.405	VV	0.06
13	11.07	HPCL	0.04	9.696	424661	4.789	VV	0.05
14	11.51		0.00	0.000	8412	0.095	VV	0.07
15	11.72	ALDRN *	0.04	9.895	379910	4.284	VV	0.05
16	12.26		0.00	0.000	4562	0.051	VB	0.16
17	12.43		0.00	0.000	310648	3.503	BB	0.05
18	13.00	HPCLE	0.03	9.086	359481	4.054	BV	0.05
19	13.27		0.00	0.000	401846	4.532	VV	0.05
20	13.53		0.00	0.000	394223	4.446	VV	0.05
21	13.71		0.00	0.000	256574	2.893	VV	0.05
22	13.80		0.00	0.000	393085	4.433	VV	0.06
23	14.28		0.00	0.000	343458	3.873	VB	0.05
24	14.74		0.00	0.000	255425	2.880	BV	0.05
25	14.91		0.00	0.000	229498	2.588	VV	0.06
26	15.20		0.00	0.000	313337	3.533	VV	0.05
27	15.43	PPDDT	0.03	9.094	295011	3.327	VV	0.05
28	15.84		0.00	0.000	11736	0.132	VV	0.11
29	16.01		0.00	0.000	323646	3.650	VV	0.06
30	16.38		0.00	0.000	230066	2.594	VV	0.06
31	16.85		0.00	0.000	320470	3.614	VV	0.06
32	17.11		0.00	0.000	49753	0.561	VV	0.09
33	17.26		0.00	0.000	33258	0.375	VV	0.09
34	17.41		0.00	0.000	502583	5.668	VV	0.06
35	19.19		0.00	0.000	139244	1.570	VV	0.42
36	19.66	CL10BP	0.04	10.155	466346	5.259	VB	0.07
37	22.97		0.00	0.000	5242	0.059	BB	0.35

Total Area = 8867779 Total Height = 1959861 Total Amount = 0.3832502


G:\CP1\HP9\I140429A.0020.RAW
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.23
2.60
4.79
5.87
6.55
7.70
7.87
9.24
9.99
10.24
10.64
11.07
11.50
11.72
12.43
12.83
13.00
14.28
14.74
14.89
15.19
15.43
16.00
16.37
16.84
17.41
18.34
18.84
19.18
19.65
21.28

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0020.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 9:30:36 PM
Method Version = 211
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.23		0.00	0.000	153655	0.656	BV	0.40
2	2.60		0.00	0.000	131407	0.561	VB	0.26
3	4.79		0.00	0.000	960081	4.098	BV	0.08
4	5.87		0.00	0.000	15229	0.065	VV	0.08
5	6.55		0.00	0.000	14164	0.060	VB	0.24
6	7.70		0.00	0.000	2851	0.012	BV	0.07
7	7.87	CL4XYL	0.10	10.683	957746	4.088	VV	0.07
8	8.66		0.00	0.000	222251	0.949	VV	0.18
9	8.85		0.00	0.000	73324	0.313	VV	0.11
10	9.24	ABHC *	0.10	9.748	1184723	5.057	VV	0.06
11	9.99	LINDANE *	0.09	9.369	1084595	4.630	VV	0.06
12	10.24	BBHC	0.10	10.688	599735	2.560	VV	0.06
13	10.64	DBHC *	0.09	9.167	979275	4.180	VV	0.06
14	11.07	HPCL	0.10	10.646	1186733	5.066	VV	0.05
15	11.50		0.00	0.000	11350	0.048	VV	0.07
16	11.72	ALDRN *	0.09	9.407	1124997	4.802	VV	0.05
17	12.43		0.00	0.000	923166	3.941	VV	0.05
18	12.83		0.00	0.000	7532	0.032	VB	0.05
19	13.00	HPCLE	0.10	10.061	1013147	4.325	BV	0.05
20	13.26		0.00	0.000	1100398	4.697	VV	0.05
21	13.53		0.00	0.000	1082309	4.620	VV	0.06
22	13.70		0.00	0.000	852040	3.637	VV	0.05
23	13.80		0.00	0.000	1085905	4.636	VB	0.06
24	14.28		0.00	0.000	995900	4.251	BB	0.05
25	14.74		0.00	0.000	820051	3.501	BV	0.05
26	14.89		0.00	0.000	687446	2.935	VV	0.06
27	15.19		0.00	0.000	857575	3.661	VV	0.05
28	15.43	PPDDT	0.10	10.461	863771	3.687	VB	0.05
29	16.00		0.00	0.000	787996	3.364	BV	0.06
30	16.37		0.00	0.000	545688	2.329	VB	0.06
31	16.84		0.00	0.000	773900	3.304	BV	0.06
32	17.11		0.00	0.000	16005	0.068	VV	0.06
33	17.25		0.00	0.000	3530	0.015	VV	0.09
34	17.41		0.00	0.000	1113597	4.754	VB	0.06
35	18.34		0.00	0.000	8354	0.036	BV	0.19
36	18.57		0.00	0.000	12918	0.055	VV	0.17
37	18.84		0.00	0.000	15307	0.065	VB	0.19
38	19.18		0.00	0.000	11283	0.048	BB	0.17
39	19.65	CL10BP	0.10	9.771	1141978	4.875	BB	0.07
40	21.28		0.00	0.000	3547	0.015	BB	0.25

Total Area = 2.342545E+07 Total Height = 5774810 Total Amount = 0.9754437

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0020.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 9:30:36 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:39:11 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
7	7.87	CL4XYL	0.104	957746	4.2	9190794
10	9.24	ABHC *	0.095	1184723	-4.9	10460059
11	9.99	LINDANE *	0.091	1084595	-8.6	10341835
12	10.24	BBHC	0.104	599735	4.3	5752682
13	10.64	DBHC *	0.089	979275	-10.6	9281534
14	11.07	HPCL	0.104	1186733	3.8	11427910
16	11.72	ALDRN *	0.092	1124997	-8.2	10902218
19	13.00	HPCLE	0.098	1013147	-1.9	10323798
28	15.43	PPDDT	0.102	863771	2.0	8464711
39	19.65	CL10BP	0.095	1141978	-4.7	11981994

Checked By: DRC Date: 4/30/14

* Used Linear Regression

File Name: G:\CP1\HP9\PESTHAWAII06B.cal
Version: 3

Creator: RDJ
Description: HP9 HAWAII PST 06B STX-CLP2

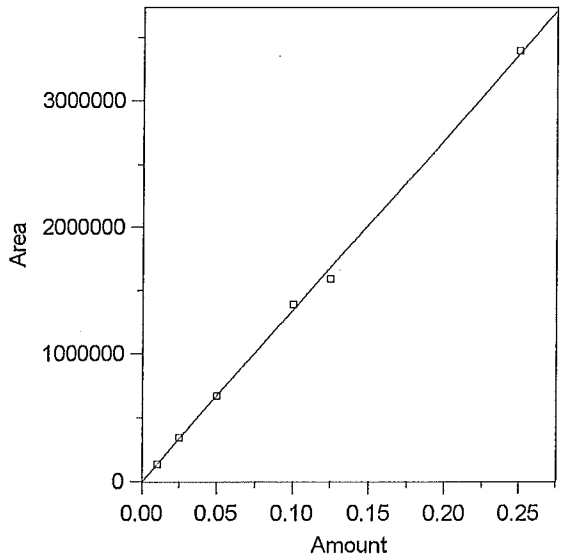
External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: ug/mL
No default component

Method of calculating data point averages: Current update equal to cal data
No calibration update report

All levels are normal data points.

Used linear regression PST 04/30/14

1 CL4XYL



Expected retention time:	8.8 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0.1

Single peak quantification by area

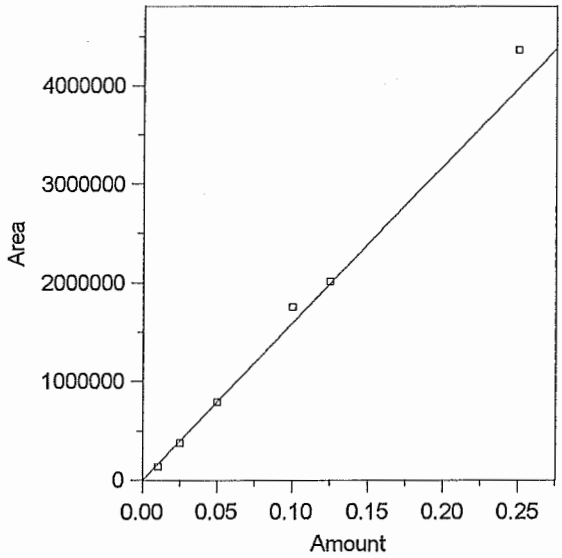
Y = 1.347037E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9984261
Average error:	2.018%
Average CF:	
1.347037E+07	
RSD:	2.953%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3396187	1.358475E+07	0.849	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	1589787	1.27183E+07	-5.583	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	1386367	1.386367E+07	2.920	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	670348.9	1.340698E+07	-0.471	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	342018.2	1.368073E+07	1.562	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	135678.1	1.356781E+07	0.723	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

2 ABHC



Expected retention time:	10.36 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

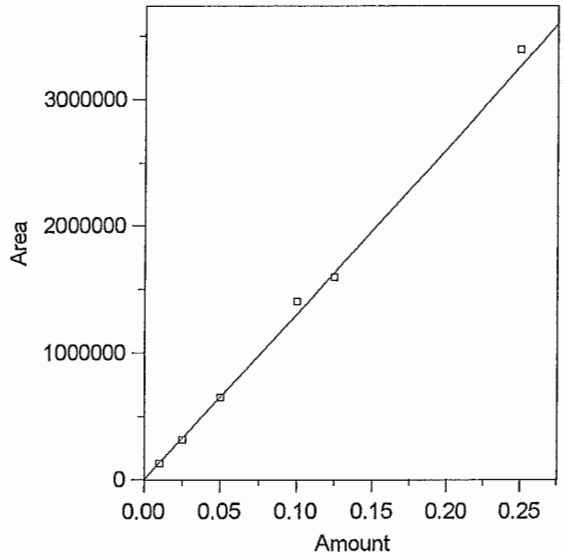
Y = 1.589618E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9851996
Average error:	6.953%
Average CF:	
1.589618E+07	
RSD:	9.278%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	4364913	1.745965E+07	9.836	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	2007448	1.605958E+07	1.028	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	1748493	1.748493E+07	9.995	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	788616.7	1.577233E+07	-0.779	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	373036	1.492144E+07	-6.132	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	136791.2	1.367912E+07	-13.947	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

3 LINDANE



Expected retention time:	11.22 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

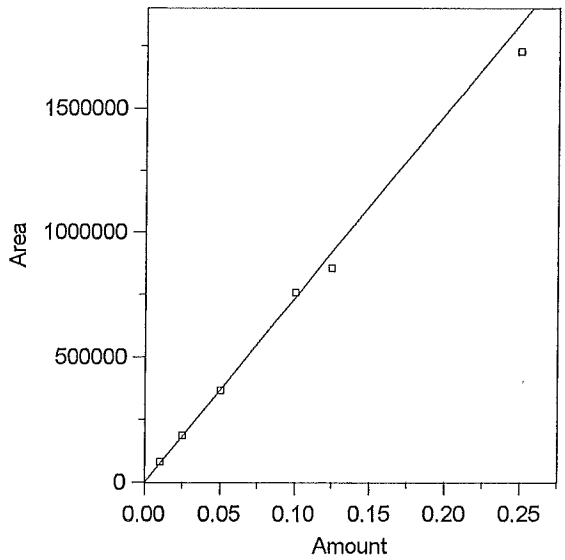
Y = 1.304856E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9958955
Average error:	3.922%
Average CF:	
1.304856E+07	
RSD:	4.927%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3395890	1.358356E+07	4.100	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	1591516	1.273213E+07	-2.425	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	1404890	1.40489E+07	7.666	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	648598.9	1.297198E+07	-0.587	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	309374.1	1.237496E+07	-5.162	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	125798.2	1.257982E+07	-3.592	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

4 BBHC



Expected retention time:	11.45 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

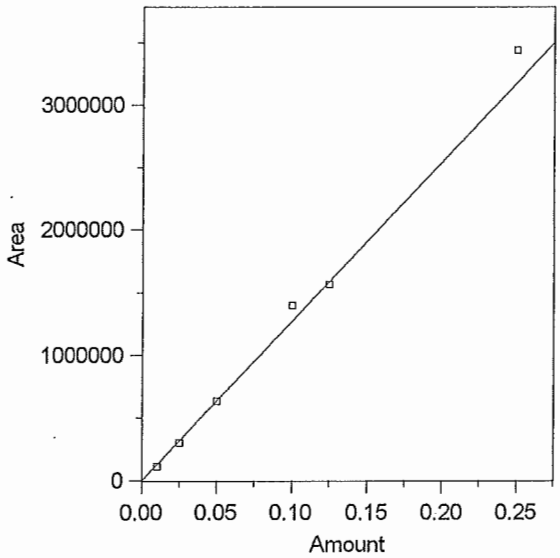
Y = 7372642 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9900395
Average error:	4.690%
Average CF:	7372642
RSD:	6.404%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	1727897	6911588	-6.254	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	854619.7	6836958	-7.266	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	757915.9	7579159	2.801	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	366599.3	7331986	-0.551	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	186302.6	7452104	1.078	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	81240.56	8124057	10.192	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

5 DBHC



Expected retention time:	12.12 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

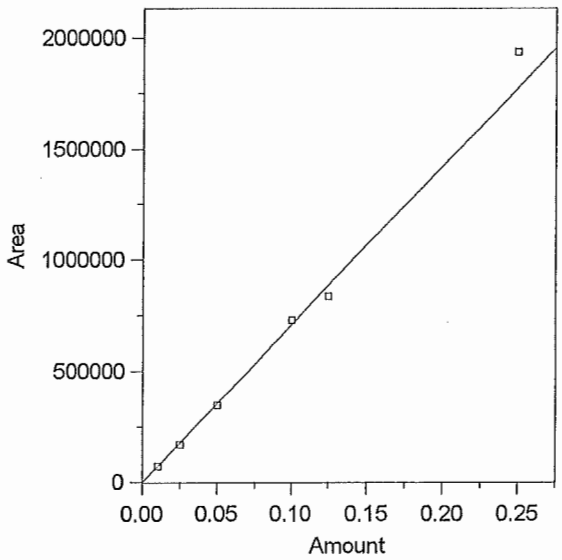
Y = 1.271545E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9885655
Average error:	6.036%
Average CF:	
1.271545E+07	
RSD:	7.769%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3441126	1.37645E+07	8.250	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	1562650	1.25012E+07	-1.685	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	1396910	1.39691E+07	9.859	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	630061.3	1.260123E+07	-0.898	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	301096.5	1.204386E+07	-5.282	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	114128.3	1.141283E+07	-10.244	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

6 HPCL



Expected retention time:	12.23 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

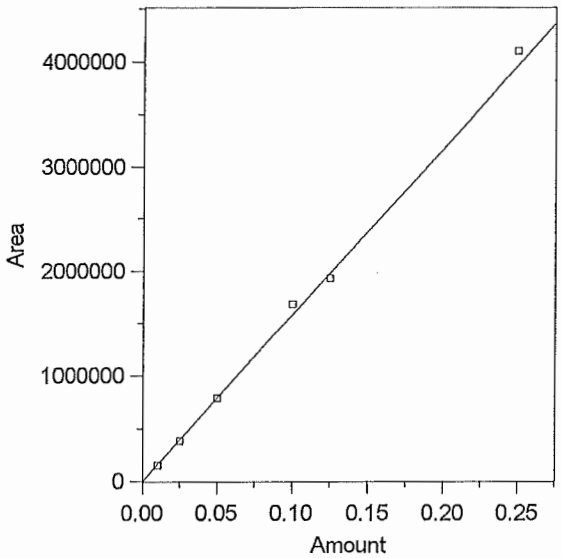
Y = 7098509 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.987079
Average error:	4.055%
Average CF:	7098509
RSD:	5.474%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	1939297	7757188	9.279	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	834722.6	6677781	-5.927	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	730343.1	7303431	2.887	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	347064	6941280	-2.215	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	170508.8	6820352	-3.919	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	70910.22	7091022	-0.105	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

7 ALDRN



Expected retention time:	12.95 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

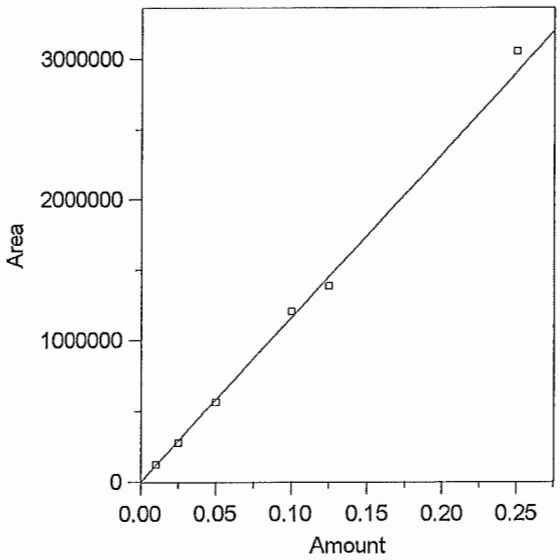
Y = 1.585277E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9969587
Average error:	3.237%
Average CF:	
1.585277E+07	
RSD:	4.040%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	4103248	1.641299E+07	3.534	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	1929711	1.543769E+07	-2.618	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	1683224	1.683224E+07	6.179	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	791397.9	1.582796E+07	-0.157	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	382914.9	1.53166E+07	-3.382	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	152891.3	1.528913E+07	-3.555	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

8 HPCLE



Expected retention time:	14.17 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

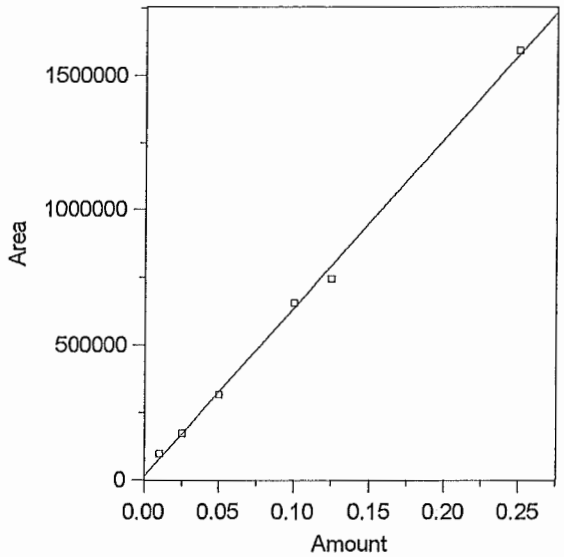
Y = 1.162593E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9948888
Average error:	4.149%
Average CF:	
1.162593E+07	
RSD:	4.602%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3058618	1.223447E+07	5.234	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	1387489	1.109991E+07	-4.525	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	1205985	1.205985E+07	3.732	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	561471.4	1.122943E+07	-3.411	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	277538.6	1.110154E+07	-4.511	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	120303.9	1.203039E+07	3.479	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

9 PPDDT *



Expected retention time:	16.94 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0.25
Low alarm limit:	0.01
Component constant:	0.1

Single peak quantification by area

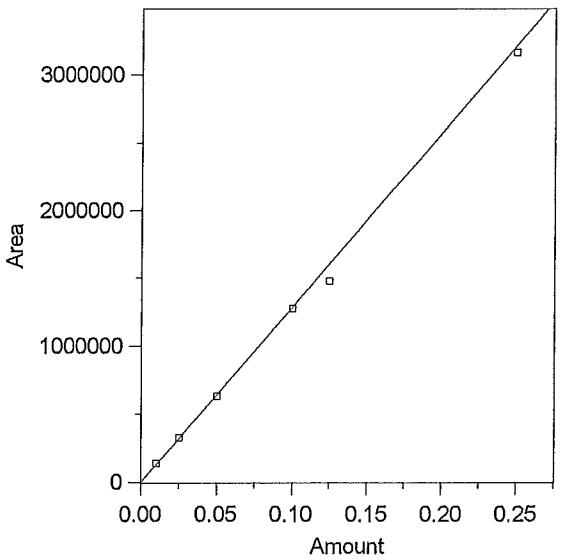
Y = 6250246 X + 14353.94

Linear fit with equal weighting

Coefficient of determination:	0.9976902
Average error:	6.797%
Average CF:	6988384
RSD:	20.121%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	1594880	6379520	1.139	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	747148.4	5977187	-6.094	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	657468.8	6574688	2.829	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	317533.7	6350674	-2.855	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	171246.6	6849864	0.373	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	97983.7	9798371	27.489	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM

10 CL10BP



Expected retention time:	22.87 minutes
Search window:	0.03 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0.1

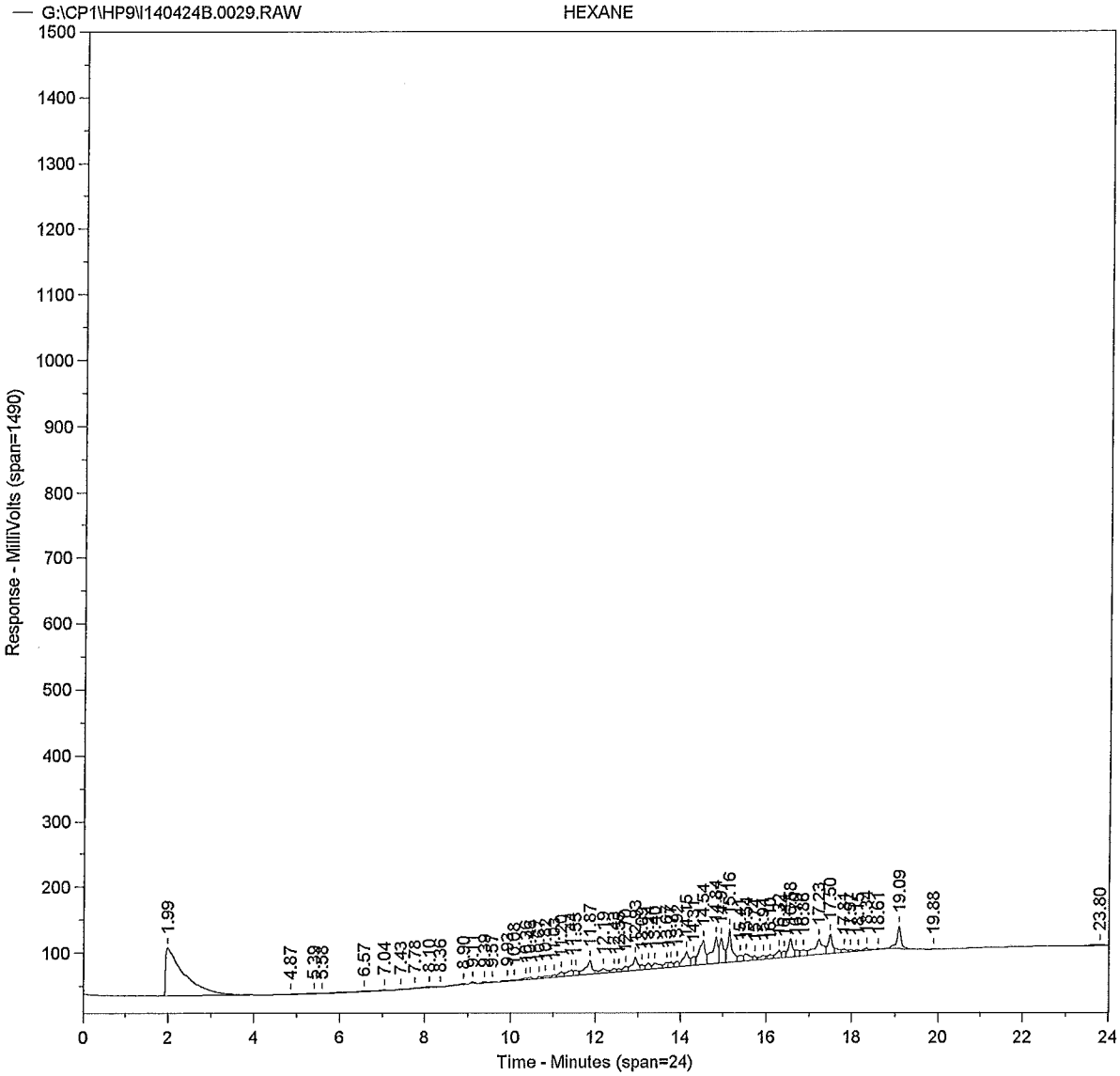
Single peak quantification by area

Y = 1.287069E+07 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9967079
Average error:	4.134%
Average CF:	
1.287069E+07	
RSD:	6.246%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	0.25	3168115	1.267246E+07	-1.540	G:\CP1\HP9\I140425B.0002.BND	4/28/14 8:53:45 AM
2	0.125	1477192	1.181754E+07	-8.183	G:\CP1\HP9\I140425B.0003.BND	4/28/14 8:53:53 AM
3	0.1	1276427	1.276427E+07	-0.827	G:\CP1\HP9\I140425B.0004.BND	4/28/14 8:54:02 AM
4	0.05	631607.3	1.263215E+07	-1.853	G:\CP1\HP9\I140425B.0005.BND	4/28/14 8:54:12 AM
5	0.025	326513	1.306052E+07	1.475	G:\CP1\HP9\I140425B.0006.BND	4/28/14 8:54:20 AM
6	0.01	142771.9	1.427719E+07	10.928	G:\CP1\HP9\I140425B.0007.BND	4/28/14 8:54:27 AM


G:\CP1\HP9\I140424B.0029.RAW
HEXANE
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.99
4.87
6.57
7.04
7.43
7.78
8.10
8.36
11.87
15.16
19.09
19.88
23.80

Sample Name = **HEXANE**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

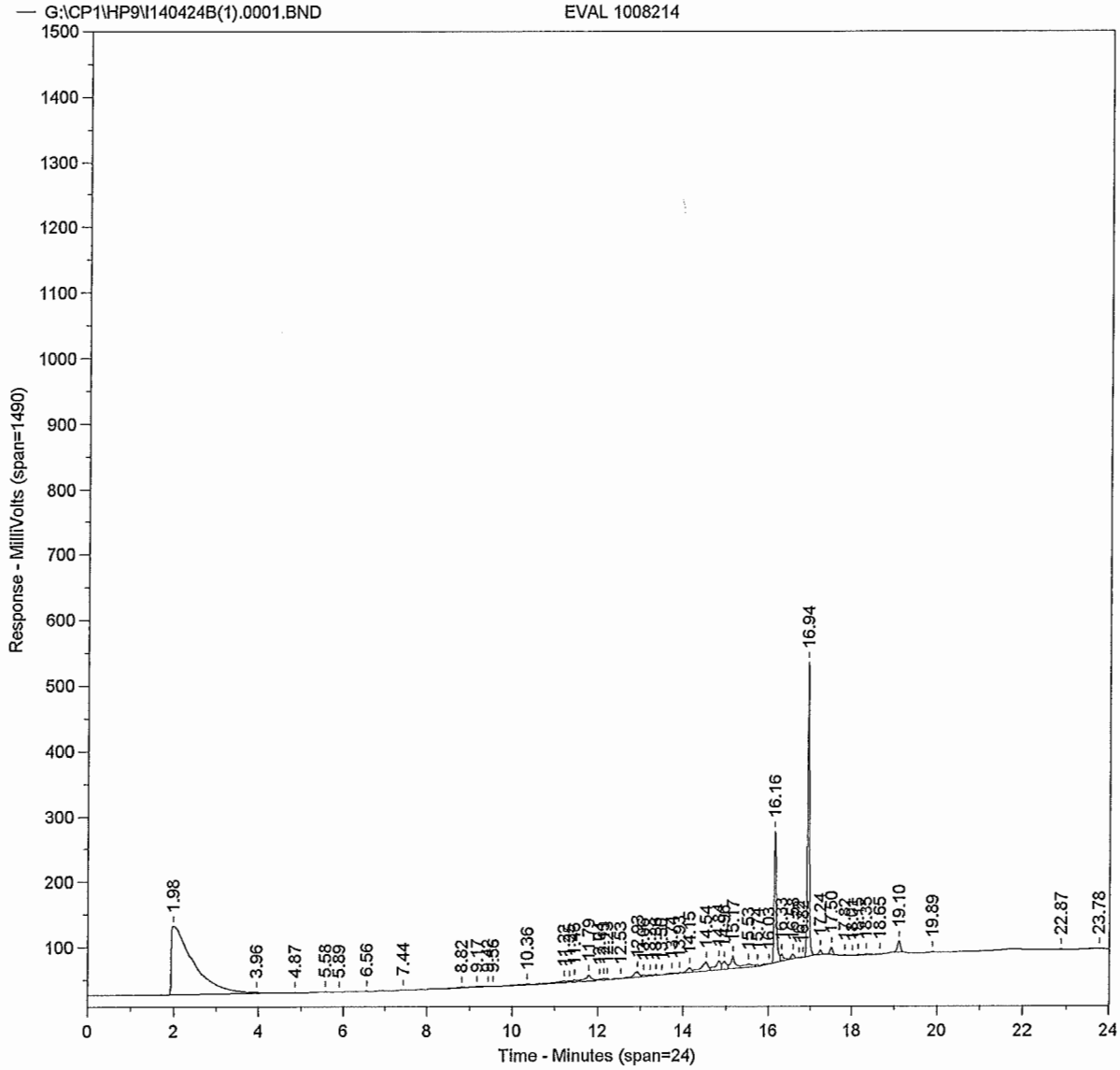
Raw File Name = **G:\CP1\HP9\I140424B.0029.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/25/14 10:55:39 AM
Method Version = 195
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.99		0.00	0.000	2155902	30.748	BB	0.38
2	4.87		0.00	0.000	1995	0.028	BV	0.09
3	5.39		0.00	0.000	12780	0.182	VV	0.29
4	5.58		0.00	0.000	2342	0.033	VB	0.10
5	6.57		0.00	0.000	28362	0.404	BV	0.41
6	7.04		0.00	0.000	14742	0.210	VB	0.18
7	7.43		0.00	0.000	7477	0.107	BV	0.16
8	7.78		0.00	0.000	9357	0.133	VV	0.15
9	8.10		0.00	0.000	22197	0.317	VV	0.25
10	8.36		0.00	0.000	6773	0.097	VB	0.14
11	8.90		0.00	0.000	22378	0.319	BB	0.29
12	9.11		0.00	0.000	13396	0.191	BB	0.12
13	9.39		0.00	0.000	18167	0.259	BV	0.16
14	9.57		0.00	0.000	11228	0.160	VB	0.14
15	9.93		0.00	0.000	20695	0.295	BV	0.19
16	10.08		0.00	0.000	16204	0.231	VV	0.12
17	10.36		0.00	0.000	27563	0.393	VV	0.14
18	10.46		0.00	0.000	19886	0.284	VV	0.12
19	10.67	DBHC *	0.02	65.292	19731	0.281	VV	0.11
20	10.82		0.00	0.000	27634	0.394	VV	0.14
21	11.03		0.00	0.000	30488	0.435	VV	0.10
22	11.20		0.00	0.000	55287	0.789	VV	0.12
23	11.44		0.00	0.000	85606	1.221	VV	0.12
24	11.55		0.00	0.000	57113	0.815	VV	0.08
25	11.87		0.00	0.000	218430	3.115	VV	0.09
26	12.19		0.00	0.000	67646	0.965	VV	0.12
27	12.43		0.00	0.000	41313	0.589	VV	0.12
28	12.55		0.00	0.000	23283	0.332	VV	0.08
29	12.70		0.00	0.000	49670	0.708	VV	0.10
30	12.93		0.00	0.000	181034	2.582	VV	0.08
31	13.09		0.00	0.000	48543	0.692	VV	0.07
32	13.24		0.00	0.000	62665	0.894	VV	0.08
33	13.40		0.00	0.000	91756	1.309	VV	0.17
34	13.67		0.00	0.000	49534	0.706	VV	0.08
35	13.77		0.00	0.000	56461	0.805	VV	0.11
36	13.92		0.00	0.000	58010	0.827	VV	0.08
37	14.15		0.00	0.000	194882	2.779	VV	0.11
38	14.31		0.00	0.000	89638	1.278	VV	0.09
39	14.54		0.00	0.000	365312	5.210	VV	0.12
40	14.84		0.00	0.000	376063	5.363	VV	0.08
41	14.97		0.00	0.000	264242	3.769	VV	0.07
42	15.16		0.00	0.000	363177	5.180	VV	0.07
43	15.41	PPDDT	0.01	34.708	70513	1.006	VV	0.09
44	15.54		0.00	0.000	95326	1.360	VV	0.10
45	15.74		0.00	0.000	30264	0.432	VV	0.08
46	15.94		0.00	0.000	57074	0.814	VV	0.12
47	16.10		0.00	0.000	46749	0.667	VV	0.11
48	16.32		0.00	0.000	87733	1.251	VV	0.10
49	16.44		0.00	0.000	58747	0.838	VV	0.08
50	16.58		0.00	0.000	188784	2.692	VV	0.07
51	16.70		0.00	0.000	62404	0.890	VV	0.08
52	16.86		0.00	0.000	93500	1.334	VV	0.10

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	17.23		0.00	0.000	323290	4.611	VV	0.11
54	17.50		0.00	0.000	195556	2.789	VV	0.08
55	17.81		0.00	0.000	40747	0.581	VV	0.08
56	17.97		0.00	0.000	24733	0.353	VV	0.08
57	18.15		0.00	0.000	19621	0.280	VV	0.09
58	18.34		0.00	0.000	26633	0.380	VV	0.10
59	18.61		0.00	0.000	7366	0.105	VB	0.11
60	19.09		0.00	0.000	251346	3.585	BB	0.09
61	19.88		0.00	0.000	10021	0.143	BB	0.17
62	23.80		0.00	0.000	32265	0.460	BB	0.42

Total Area = 7011633 Total Height = 643129.1 Total Amount = 2.400099E-02


G:\CP1\HP9\I140424B(1).0001.BND
EVAL 1008214
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.98
3.96
4.87
5.58
5.89
6.56
7.44
8.82
10.36
14.15
14.54
15.53
16.03
16.16
16.94
17.24
18.65
19.10
19.89
22.87
23.78

Sample Name = **EVAL 1008214**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140424B(1).0001.BND**
Method File Name = G:\CP1\HP9\I140424B(1).0001.BND
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

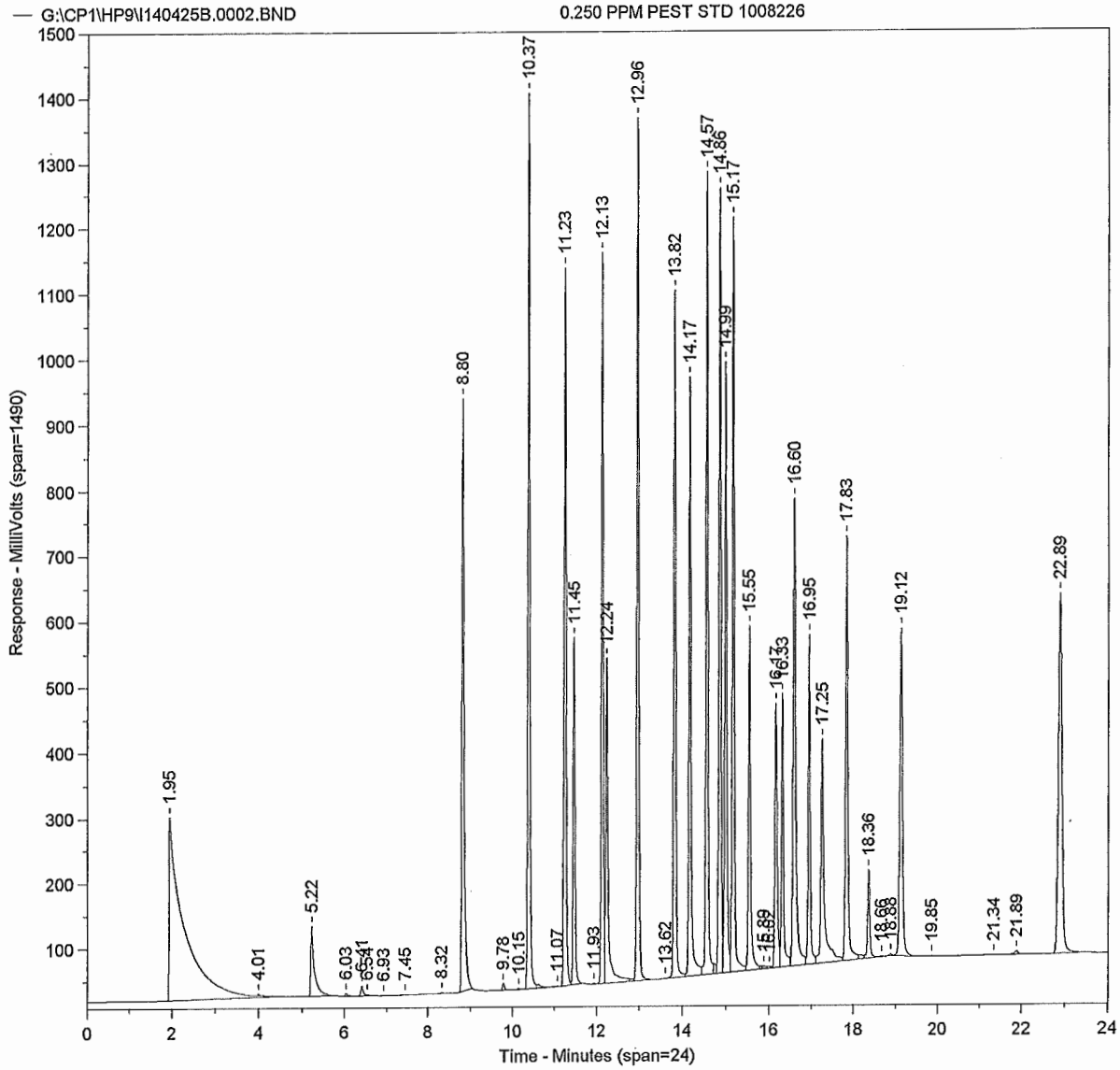
Date Taken (end) = 4/25/14 11:25:27 AM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.98		0.00	0.000	3787533	51.685	BV	0.52
2	3.96		0.00	0.000	21477	0.293	VB	0.13
3	4.87		0.00	0.000	2874	0.039	BV	0.11
4	5.58		0.00	0.000	709	0.010	VB	0.13
5	5.89		0.00	0.000	748	0.010	BB	0.14
6	6.56		0.00	0.000	4423	0.060	BB	0.24
7	7.44		0.00	0.000	1998	0.027	BB	0.07
8	8.82	CL4XYL	0.00	0.331	10248	0.140	BB	0.22
9	9.17		0.00	0.000	4761	0.065	BV	0.11
10	9.42		0.00	0.000	2543	0.035	VV	0.09
11	9.56		0.00	0.000	2153	0.029	VB	0.07
12	10.36	ABHC	0.00	0.568	20783	0.284	BB	0.48
13	11.22	LINDANE	0.00	1.165	34983	0.477	BV	0.29
14	11.35		0.00	0.000	13977	0.191	VV	0.10
15	11.46	BBHC	0.00	0.800	13573	0.185	VV	0.06
16	11.79		0.00	0.000	93210	1.272	VV	0.11
17	12.04		0.00	0.000	7246	0.099	VV	0.06
18	12.13	DBHC	0.00	0.358	10467	0.143	VV	0.06
19	12.23	HPCL	0.00	0.375	6132	0.084	VB	0.07
20	12.53		0.00	0.000	9265	0.126	BV	0.22
21	12.93	ALDRN	0.00	2.136	77932	1.063	VV	0.15
22	13.06		0.00	0.000	15994	0.218	VV	0.07
23	13.23		0.00	0.000	13218	0.180	VV	0.08
24	13.36		0.00	0.000	10819	0.148	VV	0.11
25	13.50		0.00	0.000	4996	0.068	VV	0.09
26	13.74		0.00	0.000	21033	0.287	VV	0.21
27	13.93		0.00	0.000	9029	0.123	VB	0.10
28	14.15	HPCLE	0.00	2.077	55595	0.759	BV	0.13
29	14.54		0.00	0.000	163440	2.230	VV	0.13
30	14.84		0.00	0.000	127837	1.744	VV	0.09
31	14.96		0.00	0.000	85328	1.164	VV	0.07
32	15.17	DDE	0.00	0.000	150788	2.058	VV	0.06
33	15.53		0.00	0.000	82878	1.131	VV	0.11
34	15.74		0.00	0.000	16984	0.232	VB	0.09
35	16.03		0.00	0.000	24749	0.338	BV	0.23
36	16.16	ENDRN	0.00	0.000	765009	10.439	VV	0.05
37	16.33	DDD	0.00	0.000	56176	0.767	VV	0.06
38	16.58		0.00	0.000	33973	0.464	VB	0.08
39	16.72		0.00	0.000	973	0.013	BB	0.06
40	16.82		0.00	0.000	1759	0.024	BB	0.07
41	16.94	PPDDT *	0.21	92.052	1338702	18.268	BB	0.04
42	17.24	ENDRNA	0.00	0.000	28174	0.384	BB	0.07
43	17.50		0.00	0.000	49432	0.675	BB	0.08
44	17.82		0.00	0.000	4594	0.063	BB	0.06
45	18.01		0.00	0.000	1259	0.017	BB	0.09
46	18.15		0.00	0.000	6889	0.094	BV	0.12
47	18.35		0.00	0.000	12065	0.165	VB	0.08
48	18.65		0.00	0.000	2307	0.031	BB	0.11
49	19.10	ENDRNK	0.00	0.000	83459	1.139	BB	0.08
50	19.89		0.00	0.000	5396	0.074	BB	0.14
51	22.87	CL10BP	0.00	0.139	4119	0.056	BB	0.08
52	23.78		0.00	0.000	24060	0.328	BB	0.41

Printed on 4/28/14 11:49:01 AM

DDT (150788+56176)/(150788+56176+1338702) = 13.4%
END (28174+83459)/(28174+83459+765009) = 12.7%

Total Area = 7328071 Total Height = 937964.4 Total Amount = 0.2301825


G:\CP1\HP9\I140425B.0002.BND
0.250 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.95
4.01
5.22
6.03
6.41
6.93
7.45
8.32
8.80
9.78
10.15
10.37
11.07
11.23
11.45
11.93
12.13
12.24
12.96
13.62
13.82
14.17
14.57
14.86
14.99
15.17
15.55
15.89
16.17
16.33
16.60
16.95
17.25
17.83
18.36
18.66
18.88
19.12
19.85
21.34
21.89
22.89

Sample Name = **0.250 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

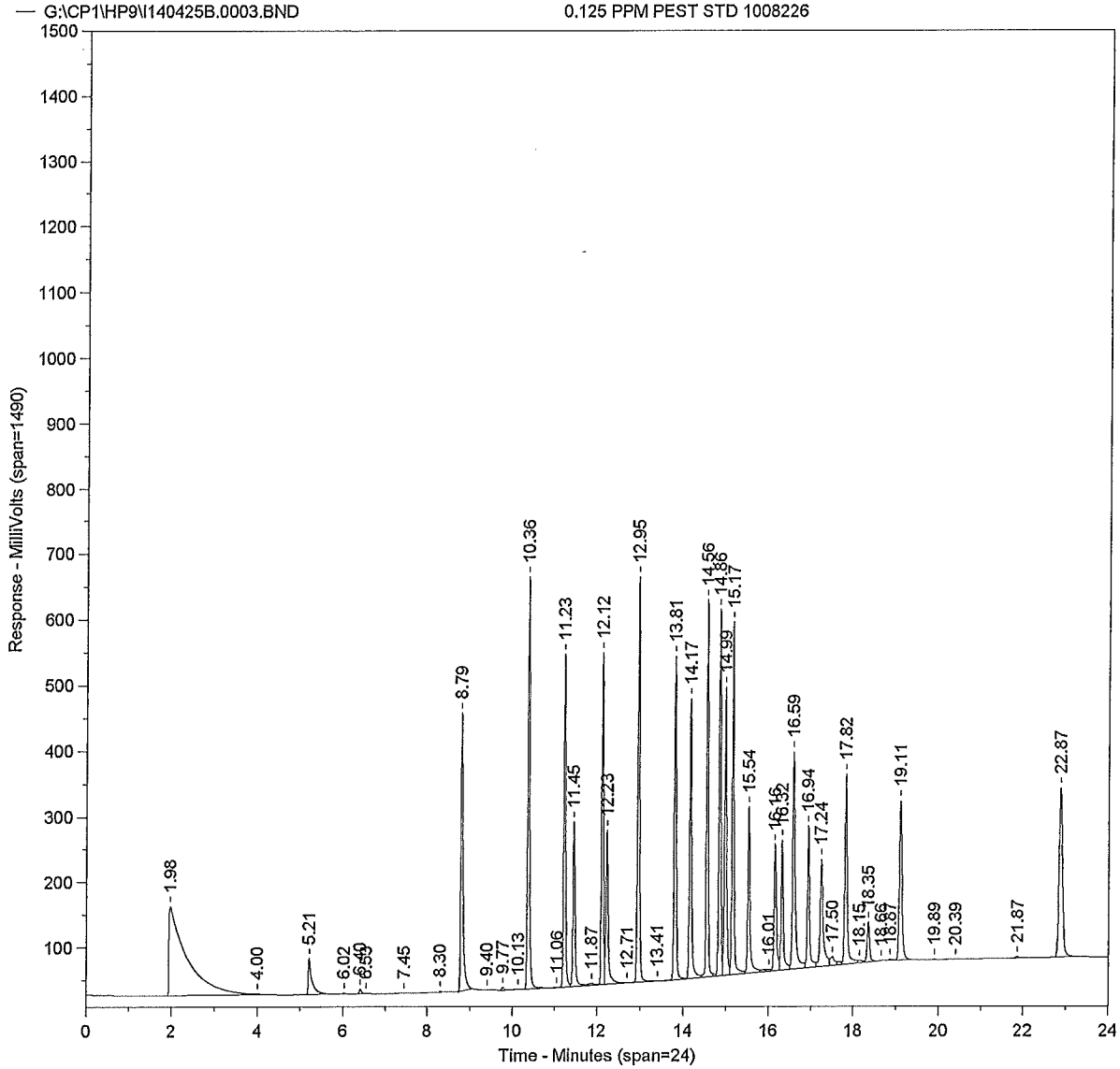
Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140425B.0002.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 12:29:16 PM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.95		0.00	0.000	6747393	9.613	SBB	0.26
2	4.01		0.00	0.000	11383	0.016	TBB	0.08
3	5.22		0.00	0.000	627115	0.893	BB	0.06
4	6.03		0.00	0.000	16000	0.023	BB	0.06
5	6.41		0.00	0.000	56368	0.080	BV	0.05
6	6.54		0.00	0.000	7395	0.011	VB	0.07
7	6.93		0.00	0.000	811	0.001	BB	0.09
8	7.45		0.00	0.000	3820	0.005	BV	0.18
9	8.32		0.00	0.000	5915	0.008	VB	0.18
10	8.80	CL4XYL	0.25	9.749	3396187	4.838	BB	0.05
11	9.78		0.00	0.000	35609	0.051	BB	0.05
12	10.15		0.00	0.000	5601	0.008	BV	0.09
13	10.37	ABHC	0.27	10.618	4364913	6.219	VV	0.05
14	11.07		0.00	0.000	9873	0.014	VB	0.11
15	11.23	LINDANE	0.26	10.063	3395890	4.838	BV	0.05
16	11.45	BBHC	0.23	9.063	1727897	2.462	VB	0.05
17	11.93		0.00	0.000	4409	0.006	BV	0.06
18	12.13	DBHC	0.27	10.465	3441126	4.902	VV	0.05
19	12.24	HPCL	0.27	10.564	1939297	2.763	VV	0.05
20	12.96	ALDRN	0.26	10.009	4103248	5.846	VB	0.05
21	13.62		0.00	0.000	5898	0.008	BV	0.09
22	13.82		0.00	0.000	3346595	4.768	VV	0.05
23	14.17	HPCLE	0.26	10.173	3058618	4.358	VV	0.05
24	14.57		0.00	0.000	3852124	5.488	VV	0.05
25	14.86		0.00	0.000	3621905	5.160	VV	0.04
26	14.99		0.00	0.000	3177657	4.527	VV	0.05
27	15.17		0.00	0.000	3606378	5.138	VV	0.04
28	15.55		0.00	0.000	1827077	2.603	VV	0.05
29	15.89		0.00	0.000	23151	0.033	VV	0.07
30	16.02		0.00	0.000	14681	0.021	VV	0.08
31	16.17		0.00	0.000	1494239	2.129	VV	0.05
32	16.33		0.00	0.000	1438386	2.049	VV	0.04
33	16.60		0.00	0.000	2911415	4.148	VV	0.05
34	16.95	PPDDT *	0.25	9.778	1594880	2.272	VV	0.04
35	17.25		0.00	0.000	1828701	2.605	VV	0.06
36	17.83		0.00	0.000	2508048	3.573	VV	0.05
37	18.36		0.00	0.000	506251	0.721	VV	0.05
38	18.66		0.00	0.000	8134	0.012	VB	0.07
39	18.88		0.00	0.000	14683	0.021	BV	0.07
40	19.12		0.00	0.000	2246576	3.201	VB	0.07
41	19.85		0.00	0.000	3832	0.005	BB	0.13
42	21.34		0.00	0.000	3285	0.005	BB	0.31
43	21.89		0.00	0.000	30523	0.043	BB	0.09
44	22.89	CL10BP	0.25	9.518	3168115	4.514	BB	0.09

Total Area = 7.019139E+07 Total Height = 1.852355E+07 Total Amount = 2.586095


G:\CP1\HP9\I140425B.0003.BND
0.125 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.98
4.00
5.21
6.02
6.40
6.59
7.45
8.30
8.79
9.40
9.77
10.13
10.36
11.06
11.23
11.45
11.87
12.12
12.23
12.71
12.95
13.41
13.81
14.17
14.56
14.86
14.99
15.17
15.54
16.01
16.15
16.32
16.59
16.94
17.24
17.50
17.82
18.15
18.35
18.66
18.87
19.11
19.89
20.39
21.87
22.87

Sample Name = **0.125 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

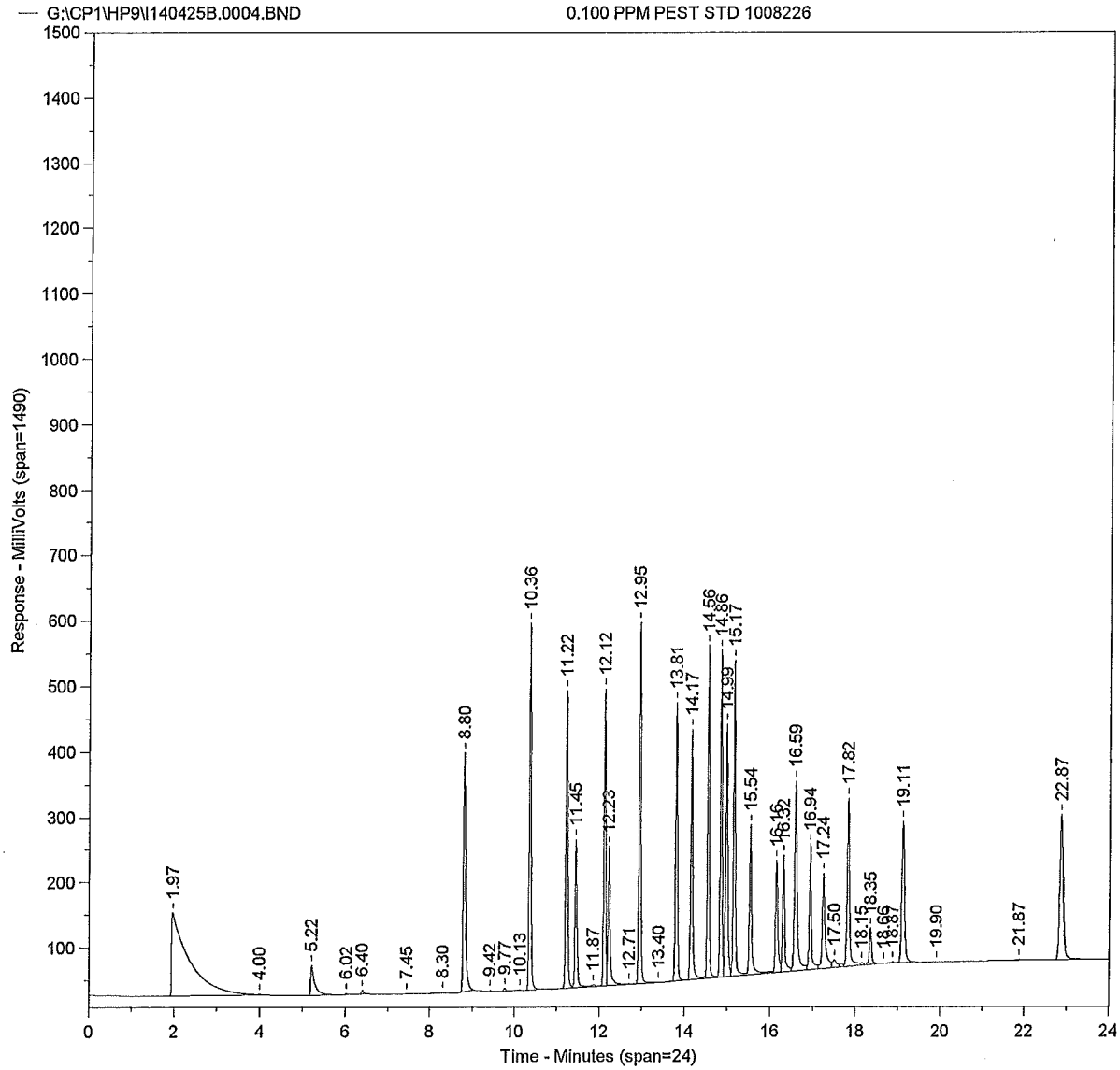
Acquisition Port = 2

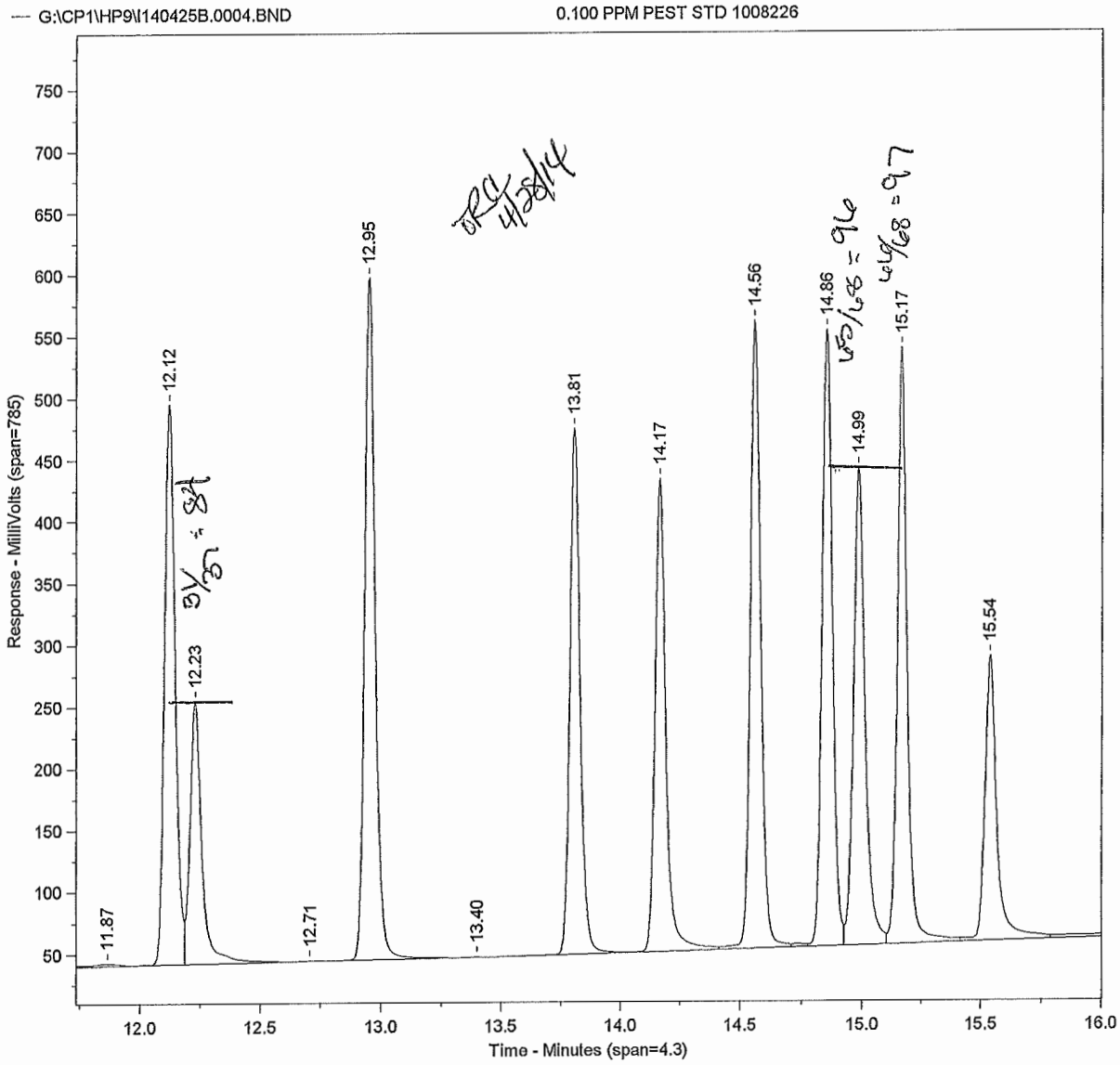
Raw File Name = **g:\CP1\HP9\I140425B.0003.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 12:56:32 PM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.98		0.00	0.000	3939551	11.676	BV	0.36
2	4.00		0.00	0.000	10197	0.030	VB	0.09
3	5.21		0.00	0.000	331969	0.984	BB	0.06
4	6.02		0.00	0.000	6296	0.019	BB	0.06
5	6.40		0.00	0.000	25187	0.075	BV	0.06
6	6.53		0.00	0.000	3839	0.011	VB	0.07
7	7.45		0.00	0.000	2038	0.006	BB	0.23
8	8.30		0.00	0.000	10518	0.031	BB	0.22
9	8.79	CL4XYL	0.12	9.870	1589787	4.712	BB	0.05
10	9.40		0.00	0.000	1287	0.004	BB	0.12
11	9.77		0.00	0.000	14637	0.043	BV	0.06
12	10.13		0.00	0.000	3234	0.010	VB	0.11
13	10.36	ABHC	0.13	10.561	2007448	5.949	BB	0.05
14	11.06		0.00	0.000	2227	0.007	BV	0.09
15	11.23	LINDANE	0.12	10.200	1591516	4.717	VV	0.05
16	11.45	BBHC	0.12	9.694	854620	2.533	VV	0.05
17	11.87		0.00	0.000	29652	0.088	VV	0.10
18	12.12	DBHC	0.12	10.277	1562650	4.631	VV	0.05
19	12.23	HPCL	0.12	9.834	834723	2.474	VV	0.05
20	12.71		0.00	0.000	2518	0.007	VB	0.07
21	12.95	ALDRN	0.12	10.180	1929711	5.719	BV	0.05
22	13.41		0.00	0.000	2020	0.006	VB	0.09
23	13.81		0.00	0.000	1544917	4.579	BV	0.05
24	14.17	HPCLE	0.12	9.981	1387489	4.112	VV	0.05
25	14.56		0.00	0.000	1750388	5.188	VV	0.04
26	14.86		0.00	0.000	1699547	5.037	VV	0.05
27	14.99		0.00	0.000	1493812	4.427	VV	0.05
28	15.17		0.00	0.000	1691530	5.013	VV	0.04
29	15.54		0.00	0.000	914565	2.710	VV	0.05
30	16.01		0.00	0.000	21133	0.063	VV	0.09
31	16.16		0.00	0.000	722361	2.141	VV	0.05
32	16.32		0.00	0.000	700584	2.076	VV	0.05
33	16.59		0.00	0.000	1405128	4.164	VV	0.05
34	16.94	PPDDT *	0.12	9.805	747148	2.214	VV	0.05
35	17.24		0.00	0.000	778533	2.307	VV	0.06
36	17.50		0.00	0.000	102694	0.304	VV	0.11
37	17.82		0.00	0.000	1152614	3.416	VV	0.05
38	18.15		0.00	0.000	31985	0.095	VV	0.07
39	18.35		0.00	0.000	231197	0.685	VV	0.05
40	18.66		0.00	0.000	6386	0.019	VB	0.07
41	18.87		0.00	0.000	7022	0.021	BV	0.08
42	19.11		0.00	0.000	1097358	3.252	VB	0.07
43	19.89		0.00	0.000	4791	0.014	BB	0.13
44	20.39		0.00	0.000	2225	0.007	BB	0.13
45	21.87		0.00	0.000	15643	0.046	BB	0.09
46	22.87	CL10BP	0.11	9.598	1477192	4.378	BB	0.09

Total Area = 3.374186E+07 Total Height = 8663473 Total Amount = 1.195763


G:\CP1\HP9\I140425B.0004.BND
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.97
4.00
5.22
6.02
6.40
7.45
8.30
8.80
9.42
9.77
10.13
10.36
11.22
11.45
11.87
12.12
12.23
12.71
12.95
13.40
13.81
14.17
14.56
14.86
14.99
15.17
15.54
16.15
16.32
16.59
16.94
17.24
17.50
17.82
18.15
18.35
18.66
18.87
19.11
19.90
21.87
22.87


G:\CP1\HP9\I140425B.0004.BND
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=785)
Time - Minutes (span=4.3)
11.87
12.12
12.23
12.71
12.95
13.40
13.81
14.17
14.56
14.86
14.99
15.17
15.54
BRG 4/28/14
B/G = 84
B/G = 96
B/G = 97

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

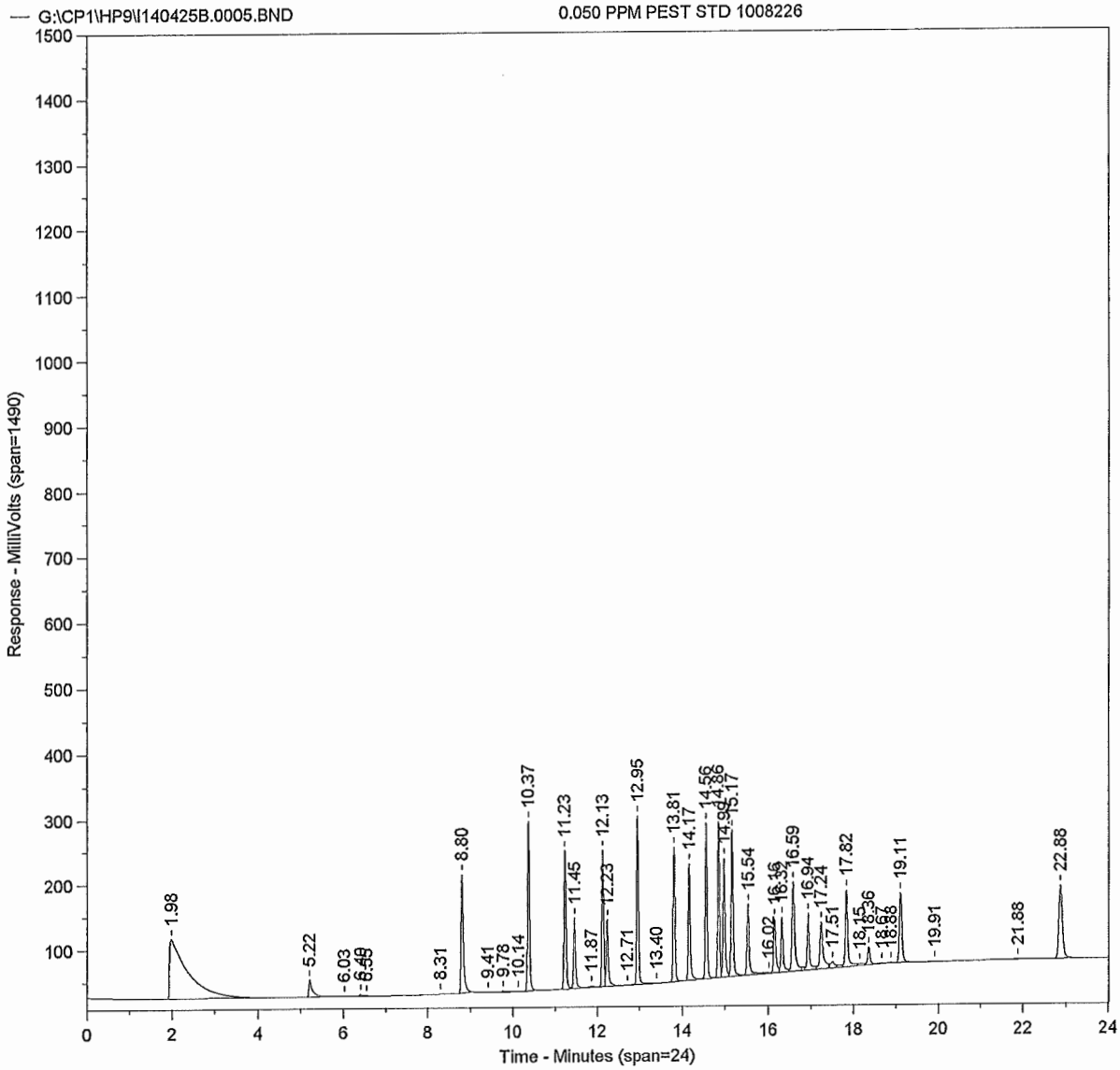
Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140425B.0004.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 1:23:52 PM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.97		0.00	0.000	3644053	12.266	BV	0.36
2	4.00		0.00	0.000	9664	0.033	VB	0.13
3	5.22		0.00	0.000	293861	0.989	BB	0.07
4	6.02		0.00	0.000	5399	0.018	BB	0.07
5	6.40		0.00	0.000	18023	0.061	BB	0.06
6	7.45		0.00	0.000	1851	0.006	BB	0.22
7	8.30		0.00	0.000	10757	0.036	BB	0.21
8	8.80	CL4XYL	0.10	9.820	1386367	4.667	BB	0.05
9	9.42		0.00	0.000	3611	0.012	BB	0.08
10	9.77		0.00	0.000	12793	0.043	BV	0.06
11	10.13		0.00	0.000	3127	0.011	VB	0.14
12	10.36	ABHC	0.11	10.495	1748493	5.886	BB	0.05
13	11.22	LINDANE	0.11	10.272	1404890	4.729	BV	0.05
14	11.45	BBHC	0.10	9.808	757916	2.551	VV	0.05
15	11.87		0.00	0.000	20994	0.071	VV	0.10
16	12.12	DBHC	0.11	10.482	1396910	4.702	VV	0.05
17	12.23	HPCL	0.10	9.816	730343	2.458	VV	0.05
18	12.71		0.00	0.000	3454	0.012	VB	0.07
19	12.95	ALDRN	0.11	10.131	1683224	5.666	BV	0.05
20	13.40		0.00	0.000	1968	0.007	VB	0.09
21	13.81		0.00	0.000	1308418	4.404	BV	0.05
22	14.17	HPCLE	0.10	9.897	1205985	4.060	VV	0.04
23	14.56		0.00	0.000	1523529	5.128	VV	0.04
24	14.86		0.00	0.000	1478771	4.978	VV	0.04
25	14.99		0.00	0.000	1302523	4.384	VV	0.05
26	15.17		0.00	0.000	1468708	4.944	VV	0.04
27	15.54		0.00	0.000	802375	2.701	VV	0.05
28	16.16		0.00	0.000	682116	2.296	VV	0.05
29	16.32		0.00	0.000	619829	2.086	VV	0.05
30	16.59		0.00	0.000	1225220	4.124	VV	0.05
31	16.94	PPDDT *	0.10	9.817	657469	2.213	VV	0.05
32	17.24		0.00	0.000	692450	2.331	VV	0.06
33	17.50		0.00	0.000	86562	0.291	VV	0.08
34	17.82		0.00	0.000	1016152	3.421	VV	0.05
35	18.15		0.00	0.000	18730	0.063	VV	0.05
36	18.35		0.00	0.000	212404	0.715	VV	0.05
37	18.66		0.00	0.000	6550	0.022	VB	0.13
38	18.87		0.00	0.000	6051	0.020	BV	0.08
39	19.11		0.00	0.000	964180	3.246	VB	0.07
40	19.90		0.00	0.000	2642	0.009	BB	0.09
41	21.87		0.00	0.000	12750	0.043	BB	0.09
42	22.87	CL10BP	0.10	9.462	1276427	4.297	BB	0.09

Total Area = 2.970754E+07 Total Height = 7689886 Total Amount = 1.048106


G:\CP1\HP9\I140425B.0005.BND
0.050 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.98
5.22
6.03
8.31
8.80
9.41
9.78
10.14
10.37
11.23
11.45
11.87
12.13
12.23
12.71
12.95
13.40
13.81
14.17
14.56
14.86
14.97
15.17
15.54
16.02
16.19
16.39
16.59
16.94
17.24
17.51
17.82
18.15
18.36
18.67
18.88
19.11
19.91
21.88
22.88

Sample Name = **0.050 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

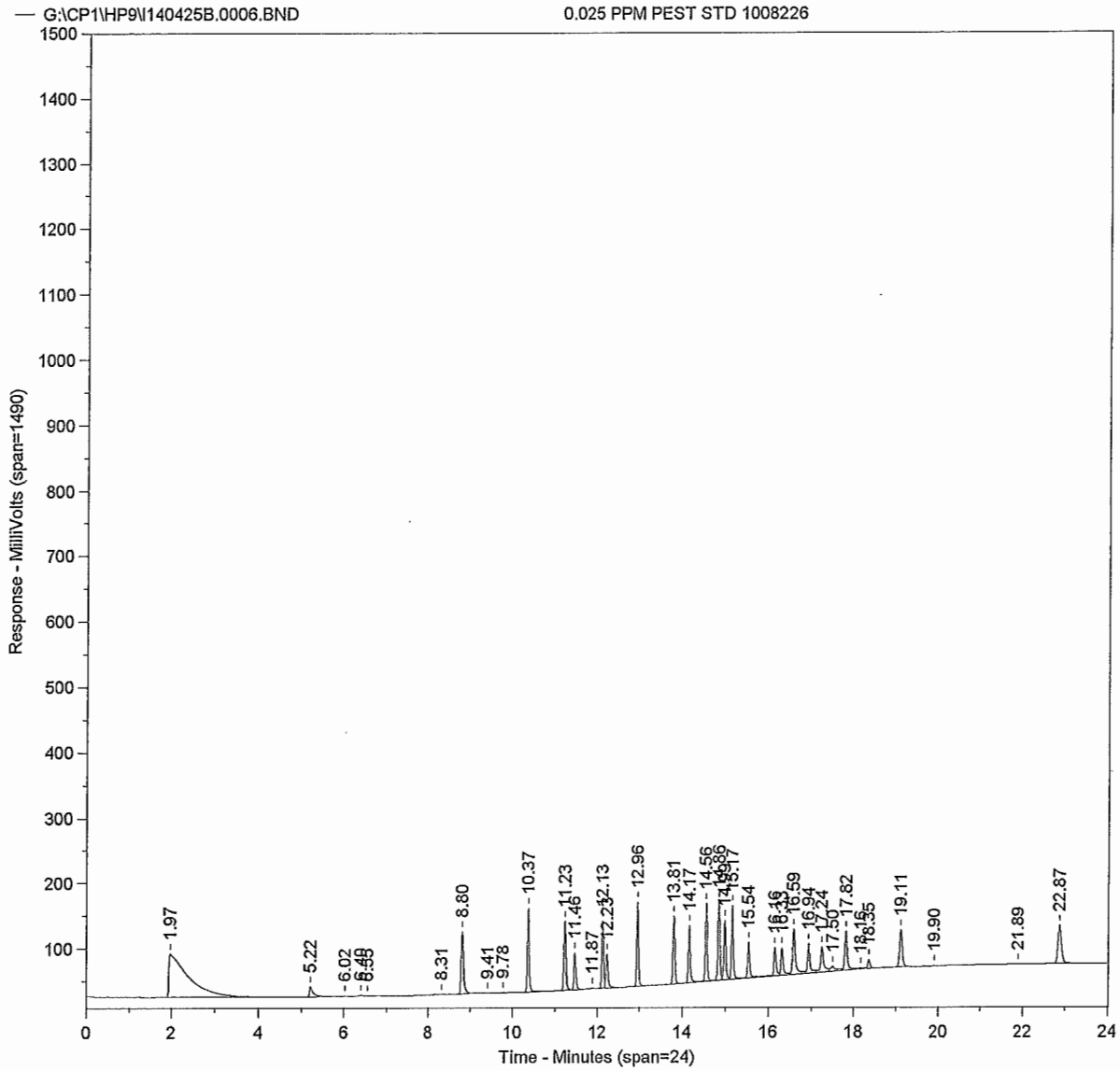
Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140425B.0005.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 1:51:10 PM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.98		0.00	0.000	2701262	17.806	BB	0.39
2	5.22		0.00	0.000	157124	1.036	BB	0.07
3	6.03		0.00	0.000	3055	0.020	BV	0.07
4	6.40		0.00	0.000	12938	0.085	VV	0.06
5	6.55		0.00	0.000	4419	0.029	VB	0.09
6	8.31		0.00	0.000	10537	0.069	BB	0.43
7	8.80	CL4XYL	0.05	10.093	670349	4.419	BB	0.05
8	9.41		0.00	0.000	1290	0.009	BB	0.11
9	9.78		0.00	0.000	5565	0.037	BV	0.06
10	10.14		0.00	0.000	2066	0.014	VB	0.16
11	10.37	ABHC	0.05	10.062	788617	5.198	BB	0.05
12	11.23	LINDANE	0.05	10.082	648599	4.275	BV	0.05
13	11.45	BBHC	0.05	10.085	366599	2.417	VV	0.05
14	11.87		0.00	0.000	17130	0.113	VV	0.09
15	12.13	DBHC	0.05	10.050	630061	4.153	VV	0.05
16	12.23	HPCL	0.05	9.916	347064	2.288	VV	0.05
17	12.71		0.00	0.000	1889	0.012	VB	0.08
18	12.95	ALDRN	0.05	10.125	791398	5.217	BV	0.05
19	13.40		0.00	0.000	1506	0.010	VB	0.09
20	13.81		0.00	0.000	633440	4.175	BB	0.05
21	14.17	HPCLE	0.05	9.795	561471	3.701	BV	0.05
22	14.56		0.00	0.000	724293	4.774	VV	0.04
23	14.86		0.00	0.000	711063	4.687	VV	0.04
24	14.99		0.00	0.000	616529	4.064	VV	0.05
25	15.17		0.00	0.000	701953	4.627	VV	0.04
26	15.54		0.00	0.000	380137	2.506	VV	0.05
27	16.02		0.00	0.000	21975	0.145	VV	0.11
28	16.16		0.00	0.000	307404	2.026	VV	0.05
29	16.32		0.00	0.000	304994	2.010	VV	0.05
30	16.59		0.00	0.000	576244	3.798	VV	0.06
31	16.94	PPDDT *	0.05	9.838	317534	2.093	VV	0.05
32	17.24		0.00	0.000	351270	2.315	VV	0.06
33	17.51		0.00	0.000	70649	0.466	VV	0.07
34	17.82		0.00	0.000	482165	3.178	VV	0.06
35	18.15		0.00	0.000	20338	0.134	VV	0.08
36	18.36		0.00	0.000	104046	0.686	VV	0.05
37	18.67		0.00	0.000	3475	0.023	VB	0.09
38	18.88		0.00	0.000	2833	0.019	BV	0.09
39	19.11		0.00	0.000	474888	3.130	VB	0.07
40	19.91		0.00	0.000	4483	0.030	BB	0.16
41	21.88		0.00	0.000	6152	0.041	BB	0.11
42	22.88	CL10BP	0.05	9.953	631607	4.163	BB	0.09

Total Area = 1.517041E+07 Total Height = 3674459 Total Amount = 0.493046


G:\CP1\HP9\I140425B.0006.BND
0.025 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.97
5.22
6.02
8.31
8.80
9.41
9.78
10.37
11.23
11.46
11.87
12.13
12.96
13.81
14.17
14.56
15.54
16.59
16.94
17.82
19.11
19.90
21.89
22.87

Sample Name = **0.025 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

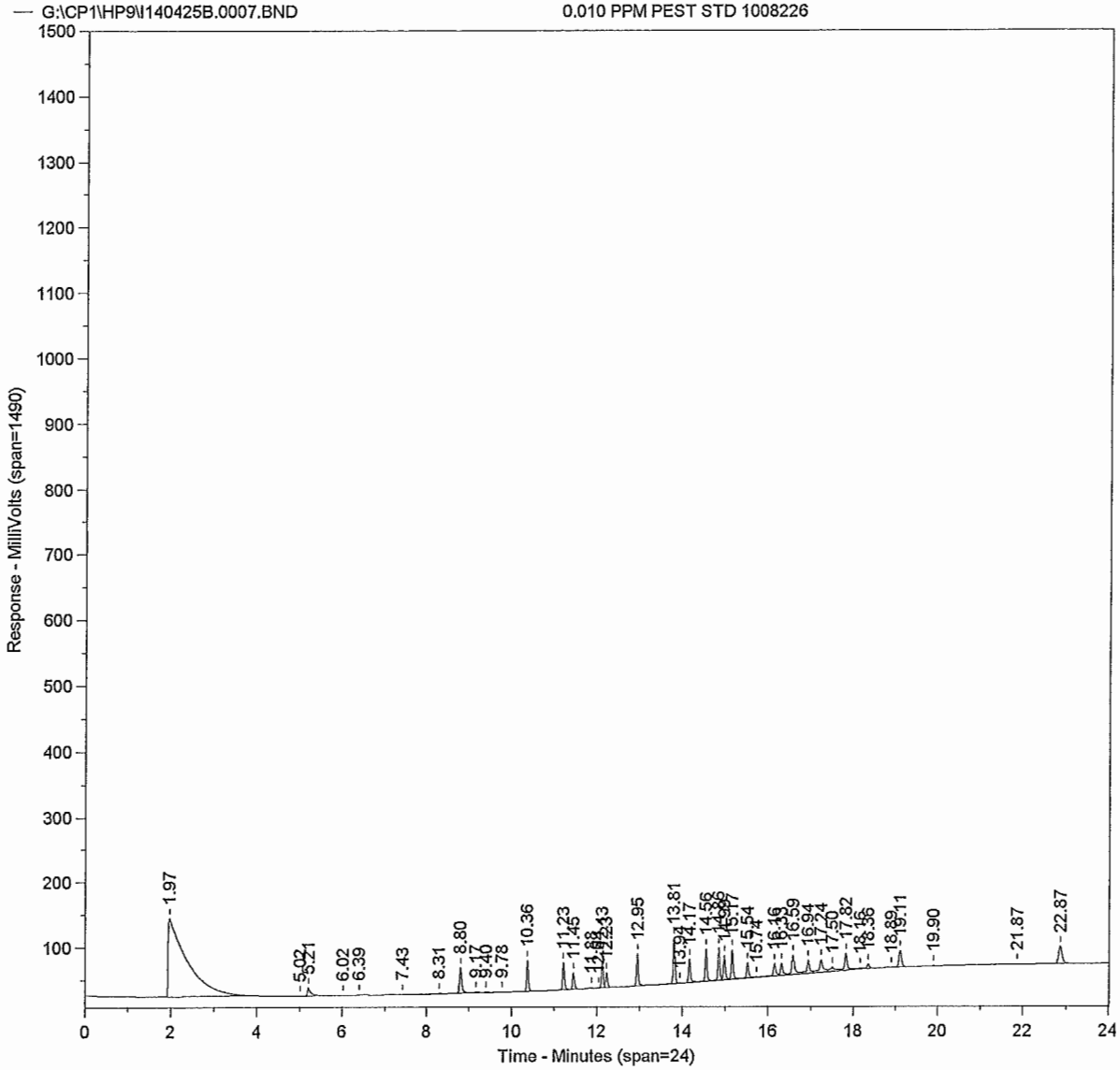
Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140425B.0006.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 2:18:41 PM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.97		0.00	0.000	2108543	25.162	BB	0.44
2	5.22		0.00	0.000	89734	1.071	BB	0.07
3	6.02		0.00	0.000	1784	0.021	BV	0.09
4	6.40		0.00	0.000	8331	0.099	VV	0.07
5	6.55		0.00	0.000	3244	0.039	VB	0.08
6	8.31		0.00	0.000	4571	0.055	BB	0.30
7	8.80	CL4XYL	0.03	10.404	342018	4.081	BB	0.05
8	9.41		0.00	0.000	1051	0.013	BB	0.11
9	9.78		0.00	0.000	2835	0.034	BB	0.06
10	10.37	ABHC	0.02	9.616	373036	4.452	BV	0.04
11	11.23	LINDANE	0.02	9.716	309374	3.692	VV	0.04
12	11.46	BBHC	0.03	10.355	186303	2.223	VV	0.05
13	11.87		0.00	0.000	12576	0.150	VB	0.11
14	12.13	DBHC	0.02	9.703	301096	3.593	BV	0.05
15	12.23	HPCL	0.02	9.843	170509	2.035	VB	0.05
16	12.96	ALDRN	0.02	9.898	382915	4.569	BV	0.04
17	13.81		0.00	0.000	304018	3.628	VB	0.05
18	14.17	HPCLE	0.02	9.782	277539	3.312	BV	0.05
19	14.56		0.00	0.000	357971	4.272	VV	0.04
20	14.86		0.00	0.000	361244	4.311	VV	0.05
21	14.99		0.00	0.000	303840	3.626	VV	0.05
22	15.17		0.00	0.000	348691	4.161	VV	0.04
23	15.54		0.00	0.000	185131	2.209	VV	0.05
24	16.16		0.00	0.000	169068	2.018	VV	0.05
25	16.33		0.00	0.000	160578	1.916	VV	0.05
26	16.59		0.00	0.000	297919	3.555	VV	0.06
27	16.94	PPDDT *	0.03	10.286	171247	2.044	VV	0.05
28	17.24		0.00	0.000	205597	2.453	VV	0.06
29	17.50		0.00	0.000	53035	0.633	VV	0.07
30	17.82		0.00	0.000	245883	2.934	VV	0.05
31	18.16		0.00	0.000	9017	0.108	VV	0.08
32	18.35		0.00	0.000	52337	0.625	VB	0.05
33	19.11		0.00	0.000	245256	2.927	BB	0.07
34	19.90		0.00	0.000	4866	0.058	BB	0.16
35	21.89		0.00	0.000	2336	0.028	BB	0.11
36	22.87	CL10BP	0.03	10.396	326513	3.896	BB	0.09

Total Area = 8380006 Total Height = 1879766 Total Amount = 0.2440337


G:\CP1\HP9\I140425B.0007.BND
0.010 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.97
5.02
5.21
6.02
6.39
7.43
8.31
8.80
9.17
9.40
9.78
10.36
11.23
11.45
12.95
13.81
14.17
15.54
15.74
19.11
19.90
21.87
22.87

Sample Name = **0.010 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

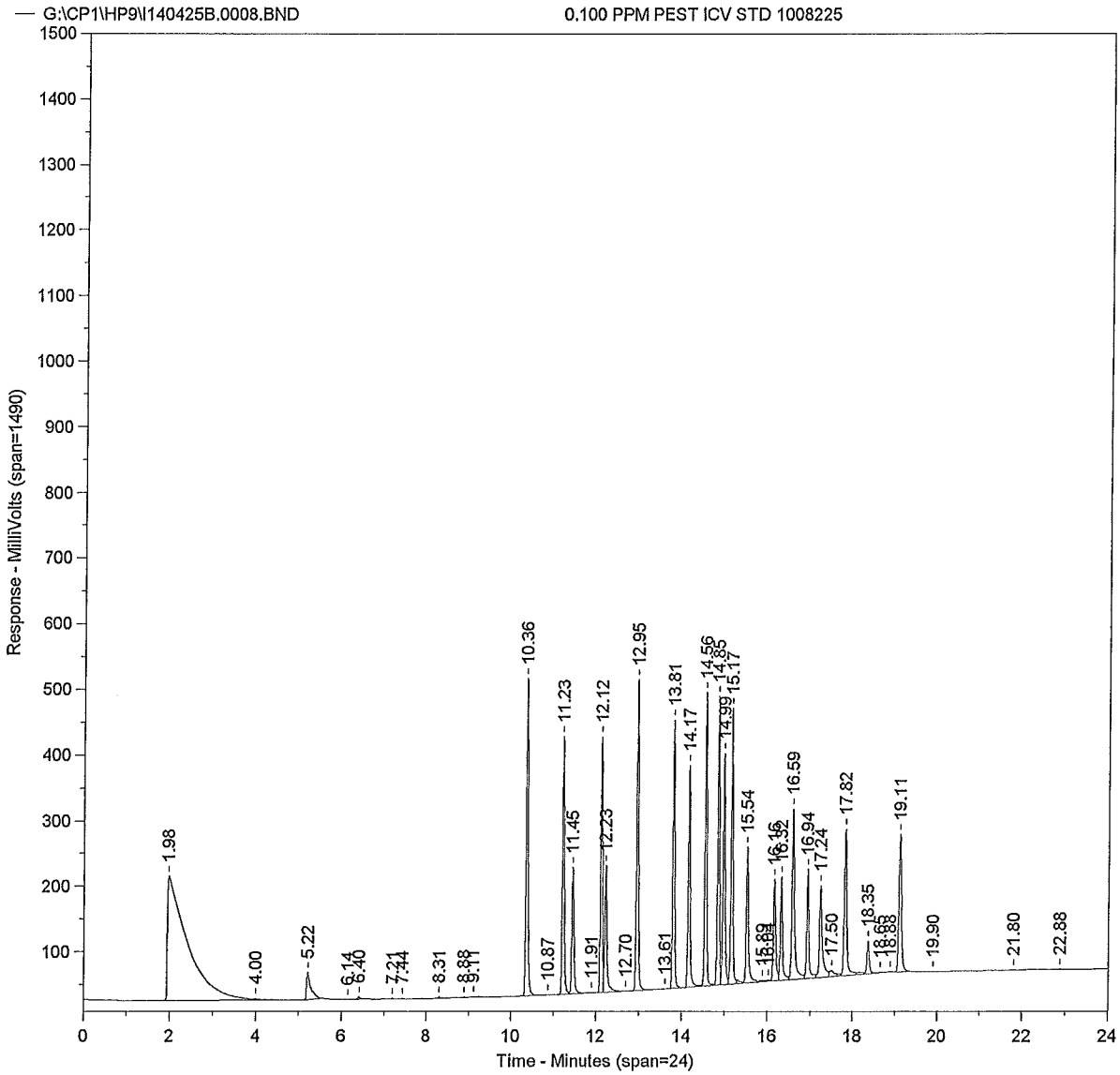
Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140425B.0007.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 2:45:58 PM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.97		0.00	0.000	3582281	54.986	BB	0.41
2	5.02		0.00	0.000	987	0.015	BB	0.15
3	5.21		0.00	0.000	61892	0.950	BB	0.06
4	6.02		0.00	0.000	572	0.009	BB	0.13
5	6.39		0.00	0.000	3326	0.051	BB	0.06
6	7.43		0.00	0.000	626	0.010	BB	0.10
7	8.31		0.00	0.000	4568	0.070	BB	0.36
8	8.80	CL4XYL	0.01	9.801	135678	2.083	BB	0.05
9	9.17		0.00	0.000	2361	0.036	BB	0.07
10	9.40		0.00	0.000	912	0.014	BB	0.08
11	9.78		0.00	0.000	1193	0.018	BB	0.09
12	10.36	ABHC	0.01	8.374	136791	2.100	BB	0.04
13	11.23	LINDANE	0.01	9.381	125798	1.931	BV	0.04
14	11.45	BBHC	0.01	10.722	81241	1.247	VV	0.05
15	11.88		0.00	0.000	10126	0.155	VB	0.13
16	12.04		0.00	0.000	3015	0.046	BV	0.06
17	12.13	DBHC	0.01	8.734	114128	1.752	VV	0.05
18	12.23	HPCL	0.01	9.720	70910	1.088	VB	0.05
19	12.95	ALDRN	0.01	9.385	152891	2.347	BV	0.04
20	13.81		0.00	0.000	210351	3.229	VV	0.05
21	13.94		0.00	0.000	3839	0.059	VB	0.05
22	14.17	HPCLE	0.01	10.069	120304	1.847	BV	0.05
23	14.56		0.00	0.000	155413	2.386	VV	0.05
24	14.86		0.00	0.000	154306	2.369	VV	0.05
25	14.99		0.00	0.000	127798	1.962	VV	0.05
26	15.17		0.00	0.000	146418	2.247	VV	0.04
27	15.54		0.00	0.000	87125	1.337	VV	0.05
28	15.74		0.00	0.000	6866	0.105	VB	0.10
29	16.16		0.00	0.000	90303	1.386	BV	0.06
30	16.33		0.00	0.000	78575	1.206	VV	0.05
31	16.59		0.00	0.000	147377	2.262	VV	0.06
32	16.94	PPDDT *	0.01	13.020	97984	1.504	VV	0.05
33	17.24		0.00	0.000	122798	1.885	VV	0.06
34	17.50		0.00	0.000	62524	0.960	VV	0.07
35	17.82		0.00	0.000	114506	1.758	VV	0.06
36	18.16		0.00	0.000	14595	0.224	VV	0.14
37	18.36		0.00	0.000	24757	0.380	VB	0.05
38	18.89		0.00	0.000	1250	0.019	BV	0.11
39	19.11		0.00	0.000	111122	1.706	VB	0.07
40	19.90		0.00	0.000	2669	0.041	BB	0.14
41	21.87		0.00	0.000	1907	0.029	BB	0.20
42	22.87	CL10BP	0.01	10.794	142772	2.191	BB	0.09

Total Area = 6514856 Total Height = 903056.3 Total Amount = 0.102768


G:\CP1\HP9\I140425B.0008.BND
0.100 PPM PEST ICV STD 1008225
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.98
4.00
5.22
6.14
6.40
7.21
7.44
8.31
8.88
9.11
10.36
10.87
11.23
11.45
11.91
12.12
12.23
12.70
12.95
13.61
13.81
14.17
14.56
14.85
14.99
15.17
15.54
15.89
16.16
16.32
16.59
16.94
17.24
17.50
17.82
18.35
18.65
18.88
19.11
19.90
21.80
22.88

Sample Name = **0.100 PPM PEST ICV STD 1008225**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140425B.0008.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 3:13:15 PM
Method Version = 191
Calibration Version = 3

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.98		0.00	0.000	6112482	22.635	SBB	0.44
2	4.00		0.00	0.000	5534	0.020	TBB	0.14
3	5.22		0.00	0.000	277741	1.028	BB	0.08
4	6.14		0.00	0.000	1095	0.004	BB	0.15
5	6.40		0.00	0.000	11821	0.044	BB	0.06
6	7.21		0.00	0.000	5567	0.021	BV	0.07
7	7.44		0.00	0.000	1989	0.007	VB	0.07
8	8.31		0.00	0.000	9584	0.035	BB	0.13
9	8.88		0.00	0.000	2099	0.008	BB	0.06
10	9.11		0.00	0.000	1144	0.004	BB	0.06
11	10.36	ABHC	0.10	13.119	1556811	5.765	BV	0.05
12	10.87		0.00	0.000	987	0.004	VB	0.07
13	11.23	LINDANE	0.09	12.682	1235332	4.575	BV	0.05
14	11.45	BBHC	0.09	12.230	673138	2.493	VV	0.05
15	11.91		0.00	0.000	10969	0.041	VV	0.11
16	12.12	DBHC	0.09	12.685	1204082	4.459	VV	0.05
17	12.23	HPCL	0.09	12.667	671250	2.486	VV	0.05
18	12.70		0.00	0.000	2044	0.008	VB	0.07
19	12.95	ALDRN	0.09	12.363	1463032	5.418	BV	0.05
20	13.61		0.00	0.000	2009	0.007	VB	0.10
21	13.81		0.00	0.000	1272971	4.714	BV	0.05
22	14.17	HPCLE	0.09	12.483	1083427	4.012	VV	0.05
23	14.56		0.00	0.000	1352566	5.009	VV	0.05
24	14.85		0.00	0.000	1316052	4.873	VV	0.05
25	14.99		0.00	0.000	1174831	4.350	VV	0.05
26	15.17		0.00	0.000	1281317	4.745	VV	0.04
27	15.54		0.00	0.000	727235	2.693	VV	0.05
28	15.89		0.00	0.000	13464	0.050	VV	0.12
29	16.04		0.00	0.000	13979	0.052	VV	0.09
30	16.16		0.00	0.000	570175	2.111	VV	0.05
31	16.32		0.00	0.000	552426	2.046	VV	0.05
32	16.59		0.00	0.000	1098150	4.067	VV	0.06
33	16.94	PPDDT *	0.09	11.743	562260	2.082	VV	0.04
34	17.24		0.00	0.000	648035	2.400	VV	0.06
35	17.50		0.00	0.000	73274	0.271	VV	0.10
36	17.82		0.00	0.000	884720	3.276	VV	0.05
37	18.35		0.00	0.000	186253	0.690	VV	0.05
38	18.65		0.00	0.000	3786	0.014	VB	0.07
39	18.88		0.00	0.000	5515	0.020	BB	0.08
40	19.11		0.00	0.000	928095	3.437	BB	0.07
41	19.90		0.00	0.000	3135	0.012	BB	0.14
42	21.80		0.00	0.000	1535	0.006	BB	0.17
43	22.88	CL10BP	0.00	0.028	2708	0.010	BB	0.10

Total Area = 2.700461E+07 Total Height = 6368561 Total Amount = 0.7465178

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST ICV STD 1008225**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140425B.0008.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/25/14 3:13:15 PM
Method Version = 191
Method Date = 4/25/14 7:43:04 AM
Calibration Version = 3
Calibration Date = 4/28/14 11:36:51 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

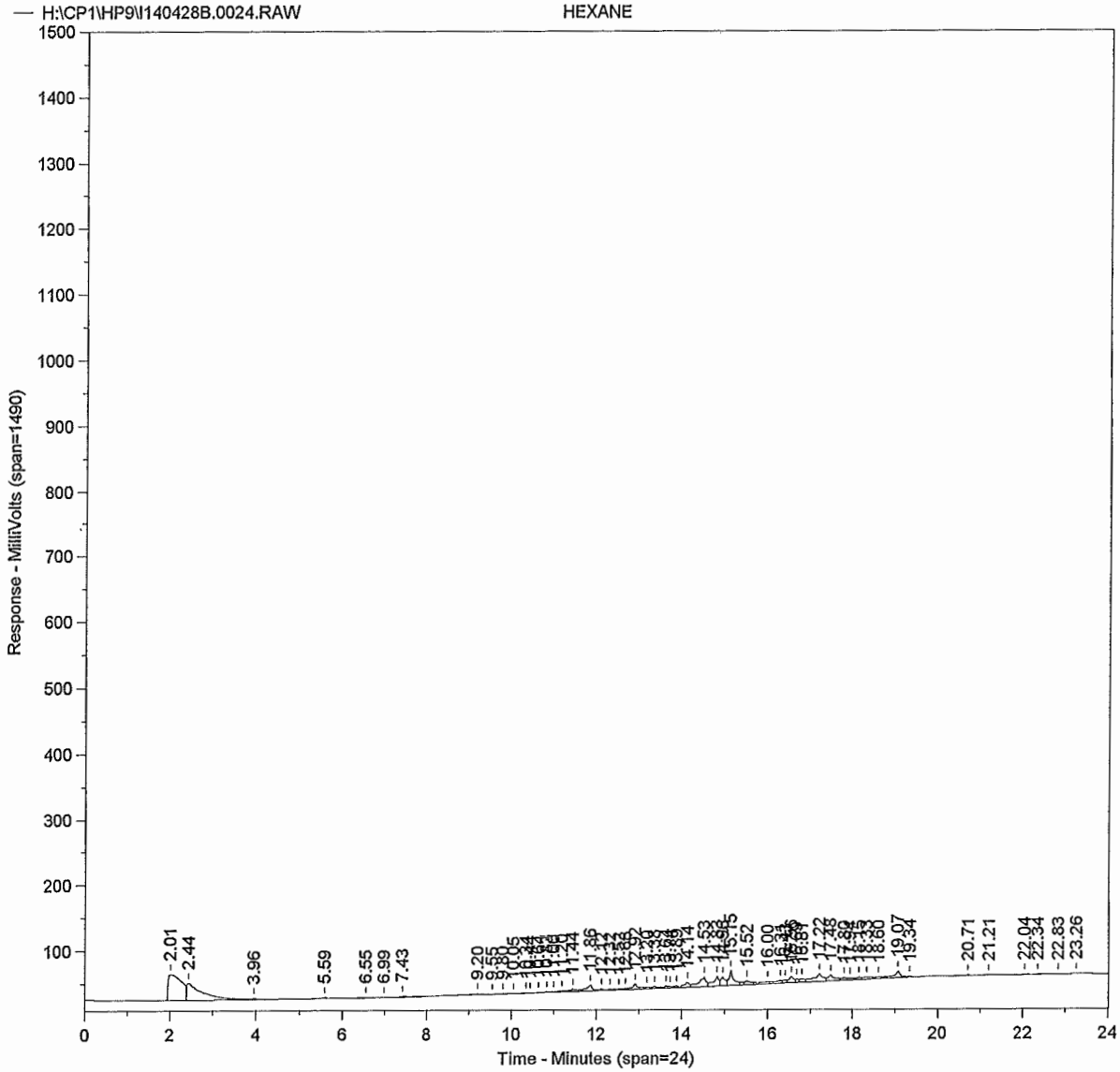
Dilution Factor = 1

Operator =

Peak #	Ret. Time min.	Peak Name	Peak Area	Response ug/ml	% Recovery	True Value (0.1 ppm)	CF
11	10.36	ABHC	1556811	0.10	98	0.10 ppm	15896177
13	11.23	LINDANE	1235332	0.09	95	0.10 ppm	13048558
14	11.45	BBHC	673138	0.09	91	0.10 ppm	7372642
16	12.12	DBHC	1204082	0.09	95	0.10 ppm	12715453
17	12.23	HPCL	671250	0.09	95	0.10 ppm	7098509
19	12.95	ALDRN	1463032	0.09	92	0.10 ppm	15852767
22	14.17	HPCLE	1083427	0.09	93	0.10 ppm	11625932
33	16.94	PPDDT *	562260	0.09	88	0.10 ppm	6988384
43	22.88	CL10BP	2708	0.00	0	0.10 ppm	12870687

* Used Linear Regression

Checked By: TRC Date: 4/28/14


H:\CP1\HP9\I140428B.0024.RAW
HEXANE
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.01
2.44
3.96
5.59
6.55
6.99
7.43
15.52
20.71
21.21
22.04
22.34
22.83
23.26

Sample Name = **HEXANE**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

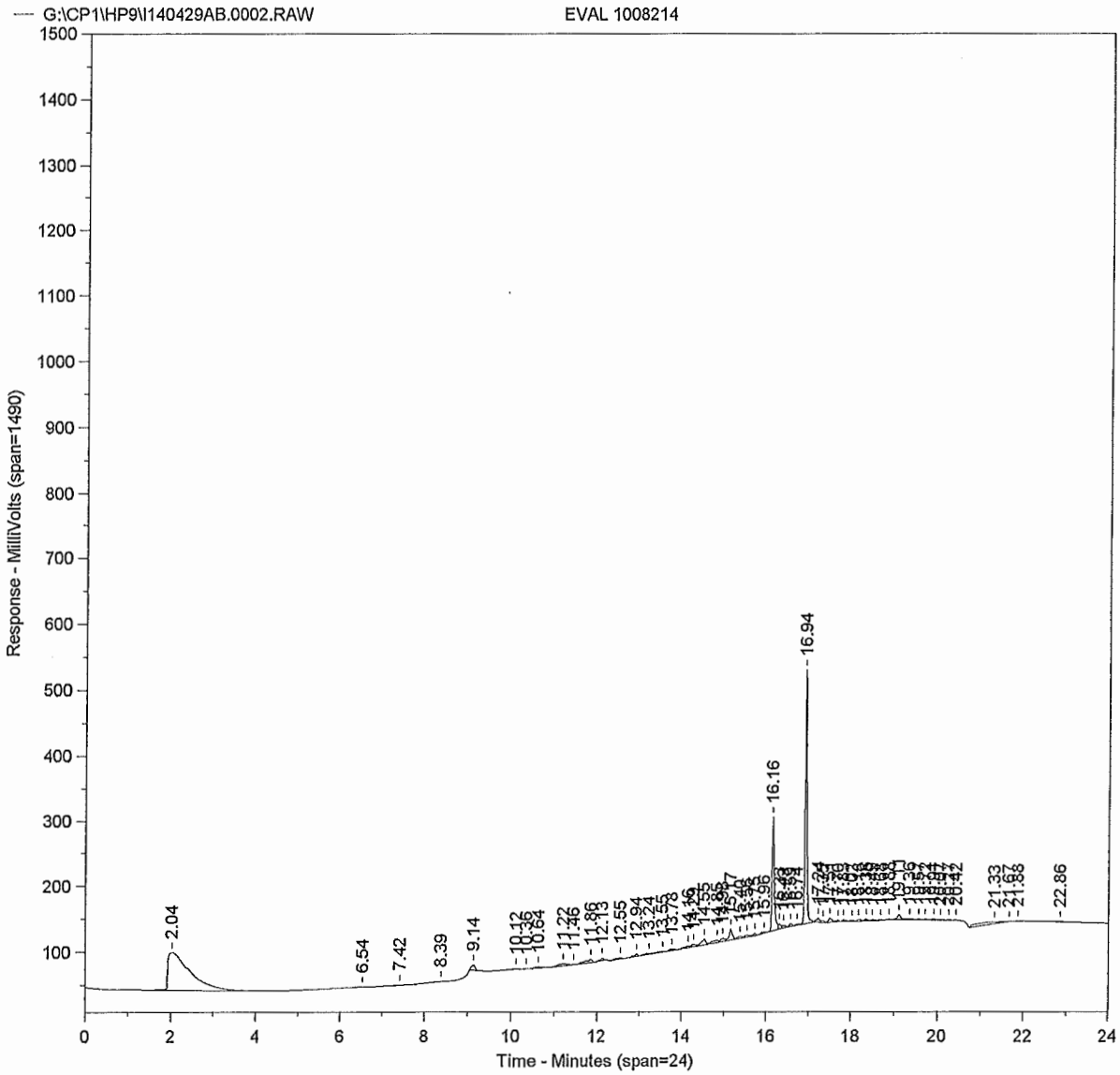
Raw File Name = **H:\CP1\HP9\I140428B.0024.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 9:25:28 AM
Method Version = 201
Calibration Version = 14

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.01		0.00	0.000	857314	24.227	BV	0.43
2	2.44		0.00	0.000	677274	19.139	VV	0.34
3	3.96		0.00	0.000	15948	0.451	VB	0.12
4	5.59		0.00	0.000	19386	0.548	BV	0.22
5	6.55		0.00	0.000	6300	0.178	VV	0.20
6	6.99		0.00	0.000	2435	0.069	VB	0.20
7	7.43		0.00	0.000	12405	0.351	BV	0.22
9	9.20		0.00	0.000	1964	0.055	VB	0.08
10	9.55		0.00	0.000	1606	0.045	BB	0.12
11	9.80		0.00	0.000	3035	0.086	BV	0.11
12	10.05		0.00	0.000	3863	0.109	VV	0.08
13	10.34	ABHC	0.00	2.012	6068	0.171	VV	0.10
14	10.44		0.00	0.000	3260	0.092	VB	0.09
15	10.64		0.00	0.000	3784	0.107	BV	0.10
16	10.83		0.00	0.000	10401	0.294	VV	0.11
17	11.00		0.00	0.000	10353	0.293	VV	0.09
18	11.20	LINDANE	0.00	6.529	16163	0.457	VV	0.12
19	11.44	BBHC	0.01	30.145	42167	1.192	VV	0.16
20	11.86		0.00	0.000	103837	2.934	VV	0.10
21	12.12	DBHC	0.00	8.762	21138	0.597	VV	0.08
22	12.32		0.00	0.000	8276	0.234	VV	0.07
23	12.52		0.00	0.000	10909	0.308	VV	0.04
24	12.68		0.00	0.000	15745	0.445	VV	0.10
25	12.92	ALDRN	0.00	21.574	64890	1.834	VV	0.08
26	13.20		0.00	0.000	22661	0.640	VV	0.08
27	13.38		0.00	0.000	23504	0.664	VV	0.09
28	13.64		0.00	0.000	20710	0.585	VV	0.07
29	13.74		0.00	0.000	21712	0.614	VV	0.10
30	13.89		0.00	0.000	18960	0.536	VB	0.13
31	14.14	HPCLE	0.01	30.023	66225	1.871	BV	0.19
32	14.53		0.00	0.000	180947	5.113	VV	0.13
33	14.83		0.00	0.000	134457	3.800	VV	0.08
34	14.96		0.00	0.000	100718	2.846	VV	0.06
35	15.15		0.00	0.000	171494	4.846	VV	0.06
36	15.52		0.00	0.000	56935	1.609	VV	0.07
37	16.00		0.00	0.000	47041	1.329	VV	0.25
38	16.31		0.00	0.000	46760	1.321	VV	0.11
39	16.43		0.00	0.000	24250	0.685	VV	0.07
40	16.56		0.00	0.000	67665	1.912	VV	0.08
41	16.69		0.00	0.000	23739	0.671	VV	0.05
42	16.81		0.00	0.000	39266	1.110	VV	0.06
43	17.22		0.00	0.000	170263	4.812	VV	0.10
44	17.48		0.00	0.000	96541	2.728	VV	0.08
45	17.80		0.00	0.000	29826	0.843	VV	0.06
46	17.94		0.00	0.000	20843	0.589	VV	0.11
47	18.15		0.00	0.000	30342	0.857	VV	0.10
48	18.33		0.00	0.000	44994	1.272	VV	0.14
49	18.60		0.00	0.000	20519	0.580	VV	0.11
50	19.07		0.00	0.000	107841	3.048	VV	0.10
51	19.34		0.00	0.000	6377	0.180	VB	0.06
52	20.71		0.00	0.000	9593	0.271	BV	0.23
53	21.21		0.00	0.000	1667	0.047	VB	0.14

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
54	22.04		0.00	0.000	3296	0.093	BV	0.12
55	22.34		0.00	0.000	3872	0.109	VV	0.08
56	22.83	CL10BP	0.00	0.955	2333	0.066	VB	0.10
57	23.26		0.00	0.000	4782	0.135	BB	0.22

Total Area = 3538655 Total Height = 274805.3 Total Amount = 1.897302E-02


G:\CP1\HP9\I140429AB.0002.RAW
EVAL 1008214
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.04
6.54
7.42
8.39
9.14
16.16
16.94
21.33
21.67
21.88
22.86

Sample Name = **EVAL 1008214**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0002.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 11:44:40 AM
Method Version = 200
Calibration Version = 5

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.04		0.00	0.000	2096491	40.494	BB	0.55
2	6.54		0.00	0.000	11983	0.231	BB	0.43
3	7.42		0.00	0.000	1954	0.038	BB	0.14
4	8.39		0.00	0.000	24726	0.478	BB	0.44
5	9.14		0.00	0.000	49371	0.954	BB	0.12
6	10.12		0.00	0.000	42312	0.817	BV	0.46
7	10.36	ABHC	0.00	0.060	1869	0.036	VB	0.05
8	10.64		0.00	0.000	34794	0.672	BB	0.32
9	11.22	LINDANE	0.00	2.075	52642	1.017	BV	0.33
10	11.46	BBHC	0.00	0.213	3052	0.059	VB	0.05
11	11.86		0.00	0.000	59774	1.155	BB	0.26
12	12.13	DBHC	0.00	0.842	20815	0.402	BB	0.13
13	12.55		0.00	0.000	23510	0.454	BV	0.25
14	12.94	ALDRN	0.00	0.842	25957	0.501	VB	0.20
15	13.24		0.00	0.000	23277	0.450	BV	0.22
16	13.55		0.00	0.000	17248	0.333	VV	0.16
17	13.78		0.00	0.000	21963	0.424	VB	0.19
18	14.16	HPCLE	0.00	1.172	26487	0.512	BV	0.19
19	14.29		0.00	0.000	28436	0.549	VV	0.13
20	14.55		0.00	0.000	69582	1.344	VV	0.13
21	14.85		0.00	0.000	45917	0.887	VV	0.17
22	14.98		0.00	0.000	34098	0.659	VV	0.11
23	15.17	DDE	0.00	0.000	91348	1.764	VV	0.07
24	15.40		0.00	0.000	27917	0.539	VV	0.13
25	15.56		0.00	0.000	26140	0.505	VV	0.14
26	15.75		0.00	0.000	17580	0.340	VB	0.06
27	15.96		0.00	0.000	17103	0.330	BB	0.15
28	16.16	ENDRN	0.00	0.000	657725	12.704	BV	0.05
29	16.33	DDD	0.00	0.000	29583	0.571	VV	0.05
30	16.43		0.00	0.000	19052	0.368	VB	0.10
31	16.59		0.00	0.000	17796	0.344	BB	0.09
32	16.74		0.00	0.000	10094	0.195	BV	0.11
33	16.94	PPDDT *	0.18	94.610	1164148	22.486	VB	0.04
34	17.24	ENDRNA	0.00	0.000	31085	0.600	BV	0.08
35	17.35		0.00	0.000	10129	0.196	VB	0.07
36	17.51		0.00	0.000	31737	0.613	BV	0.10
37	17.70		0.00	0.000	11609	0.224	VB	0.08
38	17.83		0.00	0.000	13095	0.253	BB	0.09
39	18.02		0.00	0.000	9828	0.190	BV	0.10
40	18.18		0.00	0.000	16365	0.316	VV	0.11
41	18.36		0.00	0.000	15490	0.299	VV	0.08
42	18.49		0.00	0.000	7224	0.140	VB	0.10
43	18.68		0.00	0.000	5137	0.099	BB	0.10
44	18.88		0.00	0.000	4898	0.095	BV	0.09
45	19.11	ENDRNK	0.00	0.000	49967	0.965	VV	0.07
46	19.36		0.00	0.000	11006	0.213	VV	0.15
47	19.57		0.00	0.000	5079	0.098	VB	0.08
48	19.72		0.00	0.000	4616	0.089	BV	0.09
49	19.91		0.00	0.000	7522	0.145	VB	0.13
50	20.07		0.00	0.000	5209	0.101	BV	0.11
51	20.27		0.00	0.000	4721	0.091	VB	0.09
52	20.42		0.00	0.000	3204	0.062	BB	0.10

DBC 4/29/14

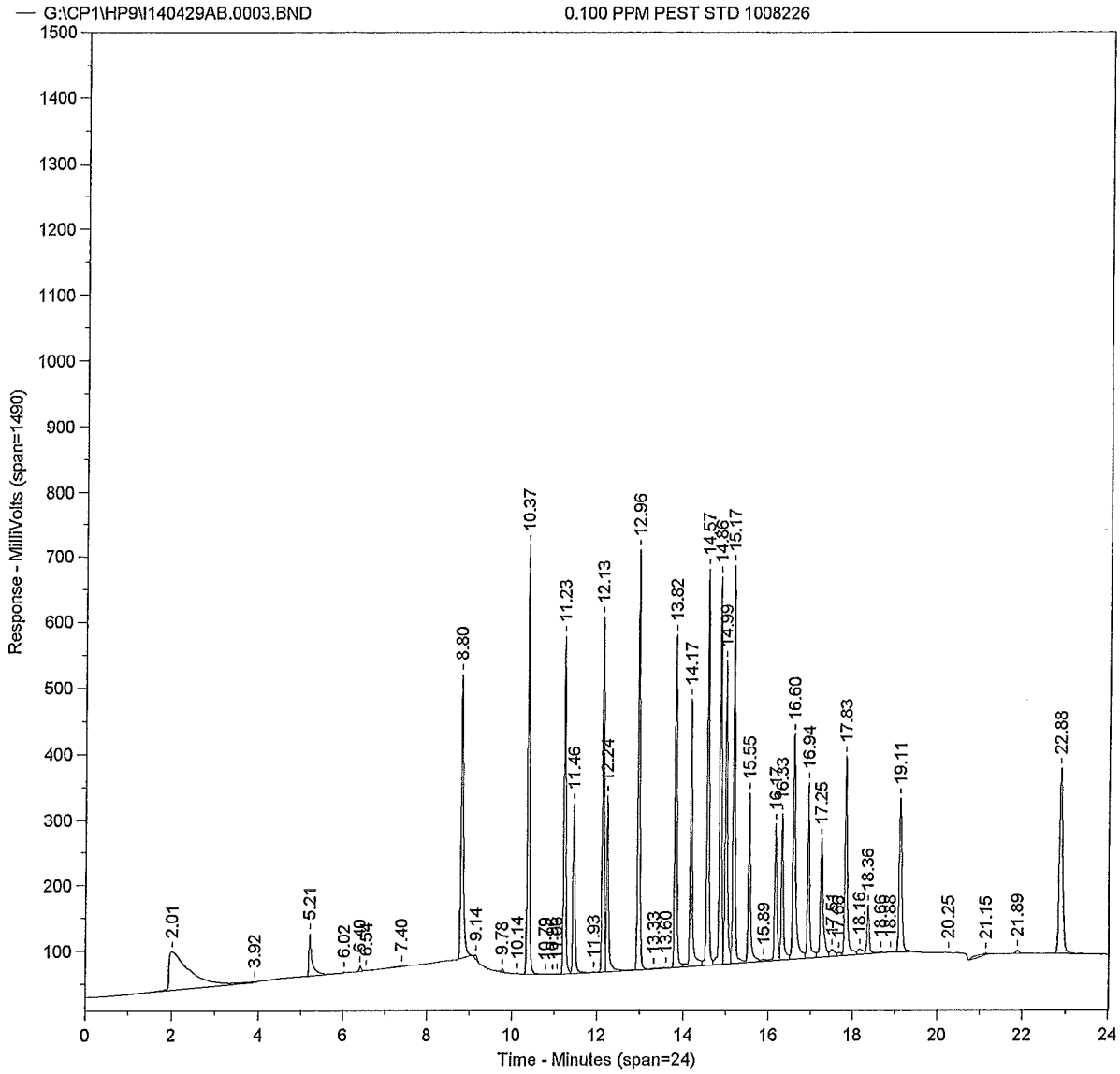
Printed on 4/29/14 12:41:22 PM

DDT (91348 + 29583) / (91348 + 29583 + 1164148) = 9.4%
END (31085 + 49967) / (31085 + 49967 + 657725) = 12.3%

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	21.33		0.00	0.000	124245	2.400	BV	0.56
54	21.67		0.00	0.000	1381	0.027	VB	0.04
55	21.88		0.00	0.000	4338	0.084	BB	0.13
56	22.86	CL10BP	0.00	0.186	4645	0.090	BB	0.14

Total Area = 5177273 Total Height = 770995 Total Amount = 0.1944391

GATC 4/30/14


G:\CP1\HP9\I140429AB.0003.BND
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.01
3.92
5.21
6.02
7.40
8.80
9.14
9.78
10.14
10.37
11.23
11.46
11.93
12.13
12.24
12.96
13.33
13.82
14.17
14.57
14.86
14.99
15.17
15.55
15.89
16.33
16.60
16.94
17.25
17.83
18.16
18.36
19.11
20.25
21.15
21.89
22.88

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140429AB.0003.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 1:22:44 PM
Method Version = 200
Calibration Version = 5

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.01		0.00	0.000	1973388	5.901	BV	0.58
2	3.92		0.00	0.000	51562	0.154	VB	0.27
3	5.21		0.00	0.000	332077	0.993	BB	0.06
4	6.02		0.00	0.000	4504	0.013	BB	0.08
5	6.40		0.00	0.000	27773	0.083	BV	0.06
6	6.54		0.00	0.000	5530	0.017	VV	0.06
7	7.40		0.00	0.000	38045	0.114	VB	0.42
8	8.80	CL4XYL	0.12	9.249	1566056	4.683	BB	0.05
9	9.14		0.00	0.000	27051	0.081	BB	0.11
10	9.78		0.00	0.000	15092	0.045	BB	0.06
11	10.14		0.00	0.000	3799	0.011	BB	0.08
12	10.37	ABHC	0.13	10.390	2076050	6.208	BV	0.05
13	10.79		0.00	0.000	3228	0.010	VB	0.13
14	10.96		0.00	0.000	2746	0.008	BV	0.11
15	11.06		0.00	0.000	1495	0.004	VB	0.04
16	11.23	LINDANE	0.12	9.636	1580459	4.726	BV	0.05
17	11.46	BBHC	0.12	9.341	865683	2.589	VV	0.05
18	11.93		0.00	0.000	4119	0.012	VB	0.06
19	12.13	DBHC	0.13	10.290	1644587	4.918	BV	0.05
20	12.24	HPCL	0.13	10.454	932756	2.789	VV	0.05
21	12.96	ALDRN	0.13	9.989	1990543	5.953	VB	0.05
22	13.33		0.00	0.000	5847	0.017	BV	0.11
23	13.60		0.00	0.000	10393	0.031	VV	0.20
24	13.82		0.00	0.000	1624845	4.859	VV	0.05
25	14.17	HPCLE	0.12	9.756	1425722	4.264	VV	0.05
26	14.57		0.00	0.000	1855371	5.549	VV	0.04
27	14.86		0.00	0.000	1856534	5.552	VV	0.05
28	14.99		0.00	0.000	1613317	4.825	VV	0.05
29	15.17		0.00	0.000	1876226	5.611	VV	0.04
30	15.55		0.00	0.000	890613	2.663	VV	0.05
31	15.89		0.00	0.000	25581	0.077	VV	0.16
32	16.17		0.00	0.000	782172	2.339	VV	0.05
33	16.33		0.00	0.000	766279	2.292	VV	0.05
34	16.60		0.00	0.000	1484645	4.440	VV	0.06
35	16.94	PPDDT *	0.14	11.164	891430	2.666	VV	0.04
36	17.25		0.00	0.000	814346	2.435	VV	0.06
37	17.51		0.00	0.000	86287	0.258	VV	0.08
38	17.66		0.00	0.000	31315	0.094	VV	0.09
39	17.83		0.00	0.000	1190403	3.560	VV	0.05
40	18.16		0.00	0.000	69664	0.208	VV	0.09
41	18.36		0.00	0.000	273269	0.817	VV	0.05
42	18.66		0.00	0.000	5826	0.017	VB	0.13
43	18.88		0.00	0.000	3503	0.010	BV	0.06
44	19.11		0.00	0.000	1031787	3.086	VB	0.06
45	20.25		0.00	0.000	1773	0.005	BB	0.08
46	21.15		0.00	0.000	71152	0.213	BB	0.41
47	21.89		0.00	0.000	29812	0.089	BB	0.09
48	22.88	CL10BP	0.12	9.731	1574246	4.708	BB	0.08

Total Area = 3.34389E+07 Total Height = 9040216 Total Amount = 1.256975

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140429AB.0003.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 1:22:44 PM
Method Version = 200
Method Date = 4/29/14 7:51:22 AM
Calibration Version = 5
Calibration Date = 4/29/14 8:57:04 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

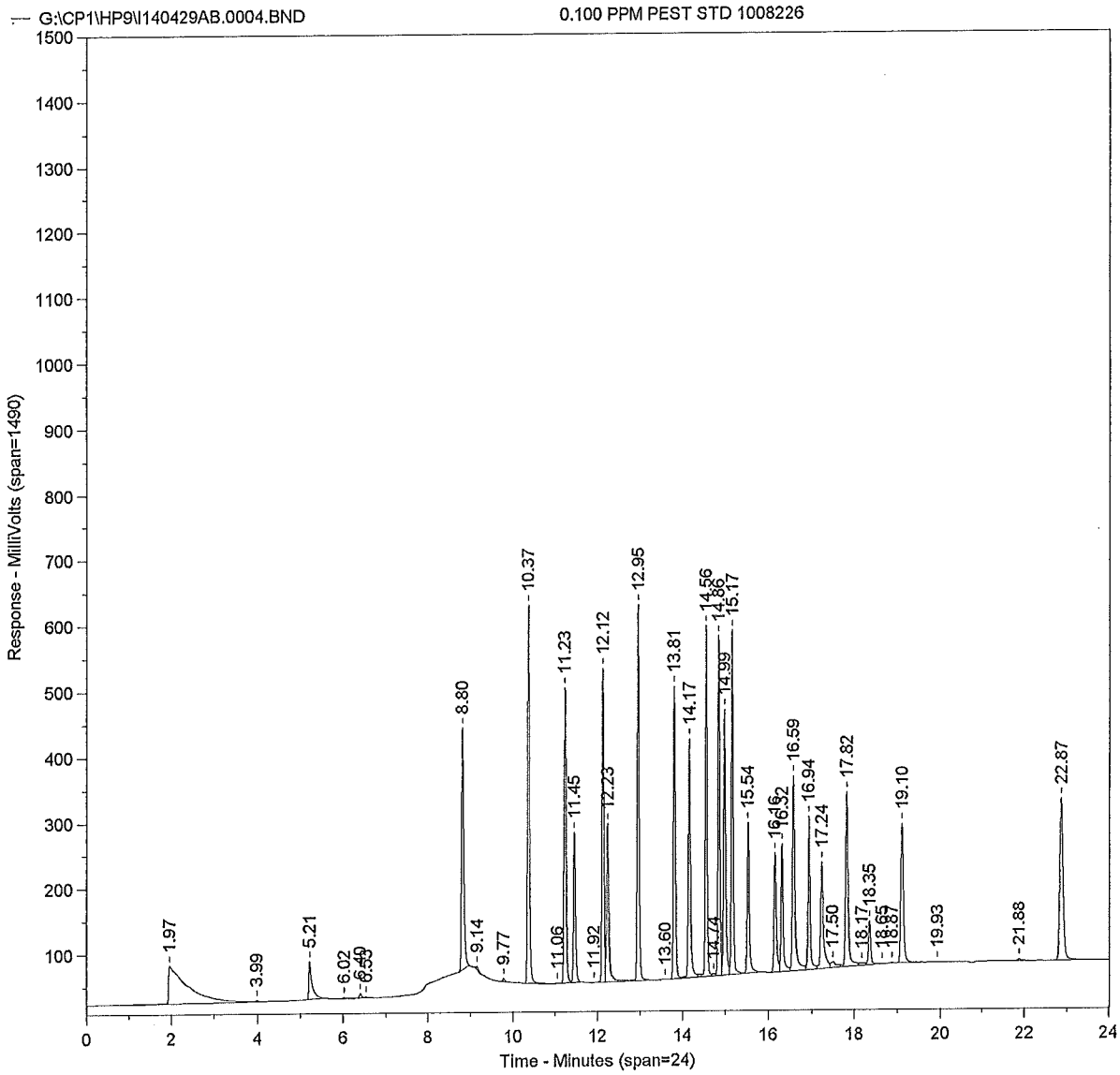
Dilution Factor = 1

Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
8	8.80	CL4XYL	0.116	1566056	16.3	13470371
12	10.37	ABHC	0.131	2076050	30.6	15896177
16	11.23	LINDANE	0.121	1580459	21.1	13048558
17	11.46	BBHC	0.117	865683	17.4	7372642
19	12.13	DBHC	0.129	1644587	29.3	12715453
20	12.24	HPCL	0.131	932756	31.4	7098509
21	12.96	ALDRN	0.126	1990543	25.6	15852767
25	14.17	HPCLE	0.123	1425722	22.6	11625932
35	16.94	PPDDT *	0.140	891430	40.3	6988384
48	22.88	CL10BP	0.122	1574246	22.3	12870687

Checked By: TRC Date: 4/30/14

* Used Linear Regression


G:\CP1\HP9\I140429AB.0004.BND
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.97
3.99
5.21
6.02
8.80
9.14
9.77
10.37
11.06
11.23
11.45
11.92
12.12
12.23
12.95
13.60
13.81
14.17
14.74
14.99
15.17
15.54
16.32
16.59
16.94
17.24
17.50
17.82
18.17
18.35
18.87
19.10
19.93
21.88
22.87

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0004.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 2:04:42 PM
Method Version = 200
Calibration Version = 5

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.97		0.00	0.000	1812612	6.335	BV	0.42
2	3.99		0.00	0.000	8107	0.028	VB	0.07
3	5.21		0.00	0.000	301488	1.054	BB	0.06
4	6.02		0.00	0.000	5615	0.020	BV	0.06
5	6.40		0.00	0.000	24713	0.086	VV	0.06
6	6.53		0.00	0.000	4524	0.016	VB	0.07
7	8.80	CL4XYL	0.10	9.025	1319727	4.612	BB	0.05
8	9.14		0.00	0.000	14317	0.050	BB	0.08
9	9.77		0.00	0.000	15587	0.054	BB	0.07
10	10.37	ABHC	0.11	10.452	1803772	6.304	BB	0.05
11	11.06		0.00	0.000	2189	0.008	BB	0.11
12	11.23	LINDANE	0.11	9.771	1384083	4.837	BV	0.05
13	11.45	BBHC	0.10	9.379	750682	2.624	VB	0.05
14	11.92		0.00	0.000	2127	0.007	BB	0.06
15	12.12	DBHC	0.11	10.566	1458528	5.097	BV	0.05
16	12.23	HPCL	0.12	10.658	821301	2.870	VV	0.05
17	12.95	ALDRN	0.11	10.136	1744357	6.096	VB	0.04
18	13.60		0.00	0.000	5752	0.020	BB	0.22
19	13.81		0.00	0.000	1374294	4.803	BV	0.05
20	14.17	HPCLE	0.10	9.267	1169605	4.088	VV	0.05
21	14.56		0.00	0.000	1568497	5.482	VV	0.04
22	14.74		0.00	0.000	15326	0.054	VV	0.04
23	14.86		0.00	0.000	1533309	5.359	VV	0.04
24	14.99		0.00	0.000	1360361	4.754	VV	0.05
25	15.17		0.00	0.000	1597239	5.582	VV	0.04
26	15.54		0.00	0.000	771398	2.696	VB	0.05
27	16.16		0.00	0.000	659433	2.305	BV	0.05
28	16.32		0.00	0.000	658322	2.301	VV	0.05
29	16.59		0.00	0.000	1241550	4.339	VV	0.05
30	16.94	PPDDT *	0.12	10.914	754916	2.638	VV	0.04
31	17.24		0.00	0.000	713590	2.494	VV	0.06
32	17.50		0.00	0.000	79117	0.277	VV	0.09
33	17.82		0.00	0.000	1037551	3.626	VV	0.05
34	18.17		0.00	0.000	32478	0.114	VV	0.08
35	18.35		0.00	0.000	241953	0.846	VV	0.05
36	18.65		0.00	0.000	2651	0.009	VB	0.10
37	18.87		0.00	0.000	4951	0.017	BB	0.07
38	19.10		0.00	0.000	928814	3.246	BB	0.06
39	19.93		0.00	0.000	1522	0.005	BB	0.12
40	21.88		0.00	0.000	12508	0.044	BB	0.08
41	22.87	CL10BP	0.11	9.833	1373959	4.802	BB	0.08

Total Area = 2.861282E+07 Total Height = 7958112 Total Amount = 1.085616

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0004.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST · DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 2:04:42 PM
Method Version = 200
Method Date = 4/29/14 7:51:22 AM
Calibration Version = 5
Calibration Date = 4/29/14 8:57:04 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

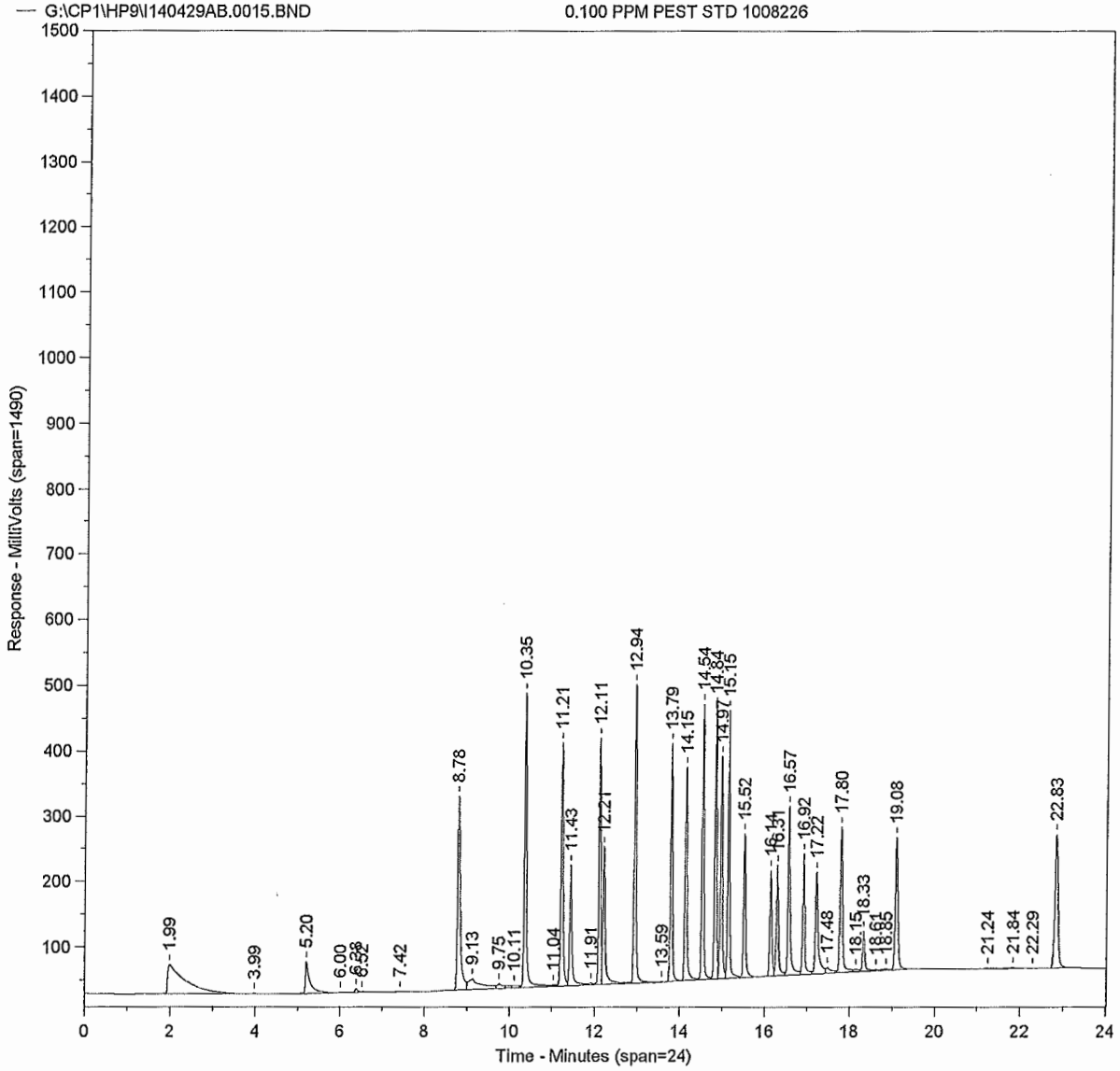
Dilution Factor = 1

Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
7	8.80	CL4XYL	0.098	1319727	-2.0	13470371
10	10.37	ABHC	0.113	1803772	13.5	15896177
12	11.23	LINDANE	0.106	1384083	6.1	13048558
13	11.45	BBHC	0.102	750682	1.8	7372642
15	12.12	DBHC	0.115	1458528	14.7	12715453
16	12.23	HPCL	0.116	821301	15.7	7098509
17	12.95	ALDRN	0.110	1744357	10.0	15852767
20	14.17	HPCLE	0.101	1169605	0.6	11625932
30	16.94	PPDDT *	0.118	754916	18.5	6988384
41	22.87	CL10BP	0.107	1373959	6.8	12870687

Checked By: TRC Date: 4/29/14

* Used Linear Regression


G:\CP1\HP9\I140429AB.0015.BND
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.99
3.99
5.20
6.00
7.42
8.78
9.13
9.75
10.11
10.35
11.04
11.21
11.43
11.91
12.11
12.21
12.94
13.59
13.79
14.15
14.54
14.84
14.97
15.15
15.52
16.31
16.57
16.92
17.22
17.48
17.80
18.15
18.33
18.61
18.85
19.08
21.24
21.84
22.29
22.83

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0015.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 7:13:51 PM
Method Version = 201
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.99		0.00	0.000	1315659	5.140	BV	0.38
2	3.99		0.00	0.000	5951	0.023	VB	0.10
3	5.20		0.00	0.000	364652	1.425	BV	0.08
4	6.00		0.00	0.000	9309	0.036	VV	0.08
5	6.38		0.00	0.000	36366	0.142	VV	0.07
6	6.52		0.00	0.000	12026	0.047	VB	0.09
7	7.42		0.00	0.000	2507	0.010	BB	0.20
8	8.78	CL4XYL	0.10	9.901	1296325	5.064	BV	0.06
9	9.13		0.00	0.000	346199	1.353	VV	0.19
10	9.75		0.00	0.000	64529	0.252	VV	0.06
11	10.11		0.00	0.000	36119	0.141	VV	0.07
12	10.35	ABHC	0.10	10.747	1660435	6.487	VV	0.05
13	11.04		0.00	0.000	13431	0.052	VV	0.07
14	11.21	LINDANE	0.10	9.960	1263109	4.935	VV	0.05
15	11.43	BBHC	0.10	9.932	711696	2.780	VV	0.05
16	11.91		0.00	0.000	19929	0.078	VV	0.07
17	12.11	DBHC	0.09	9.773	1207858	4.719	VV	0.05
18	12.21	HPCL	0.11	11.627	802145	3.134	VV	0.05
19	12.94	ALDRN	0.10	9.811	1511630	5.906	VV	0.05
20	13.59		0.00	0.000	1115	0.004	VB	0.06
21	13.79		0.00	0.000	1193135	4.661	BV	0.05
22	14.15	HPCLE	0.09	9.600	1084805	4.238	VV	0.05
23	14.54		0.00	0.000	1326748	5.183	VV	0.05
24	14.84		0.00	0.000	1276370	4.986	VV	0.05
25	14.97		0.00	0.000	1174888	4.590	VV	0.05
26	15.15		0.00	0.000	1281086	5.005	VV	0.04
27	15.52		0.00	0.000	757829	2.961	VB	0.05
28	16.14		0.00	0.000	580583	2.268	BV	0.05
29	16.31		0.00	0.000	585712	2.288	VV	0.05
30	16.57		0.00	0.000	1061267	4.146	VV	0.05
31	16.92	PPDDT *	0.09	9.741	606094	2.368	VV	0.04
32	17.22		0.00	0.000	699901	2.734	VV	0.06
33	17.48		0.00	0.000	83366	0.326	VV	0.10
34	17.80		0.00	0.000	863222	3.372	VV	0.05
35	18.15		0.00	0.000	33710	0.132	VV	0.09
36	18.33		0.00	0.000	245587	0.959	VV	0.05
37	18.61		0.00	0.000	12727	0.050	VV	0.08
38	18.85		0.00	0.000	25088	0.098	VV	0.09
39	19.08		0.00	0.000	889659	3.476	VB	0.06
40	21.24		0.00	0.000	3390	0.013	BV	0.23
41	21.84		0.00	0.000	13011	0.051	VV	0.10
42	22.29		0.00	0.000	3328	0.013	VB	0.22
43	22.83	CL10BP	0.09	8.908	1114307	4.353	BB	0.08

Total Area = 2.55968E+07 Total Height = 6606867 Total Amount = 0.9719315

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0015.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 7:13:51 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:41:58 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
8	8.78	CL4XYL	0.096	1296325	-3.8	13470371
12	10.35	ABHC	0.104	1660435	4.5	15896177
14	11.21	LINDANE	0.097	1263109	-3.2	13048558
15	11.43	BBHC	0.097	711696	-3.5	7372642
17	12.11	DBHC	0.095	1207858	-5.0	12715453
18	12.21	HPCL	0.113	802145	13.0	7098509
19	12.94	ALDRN	0.095	1511630	-4.6	15852767
22	14.15	HPCLE	0.093	1084805	-6.7	11625932
31	16.92	PPDDT *	0.095	606094	-5.3	6988384
43	22.83	CL10BP	0.087	1114307	-13.4	12870687

Checked By: JRC Date: 4/30/14

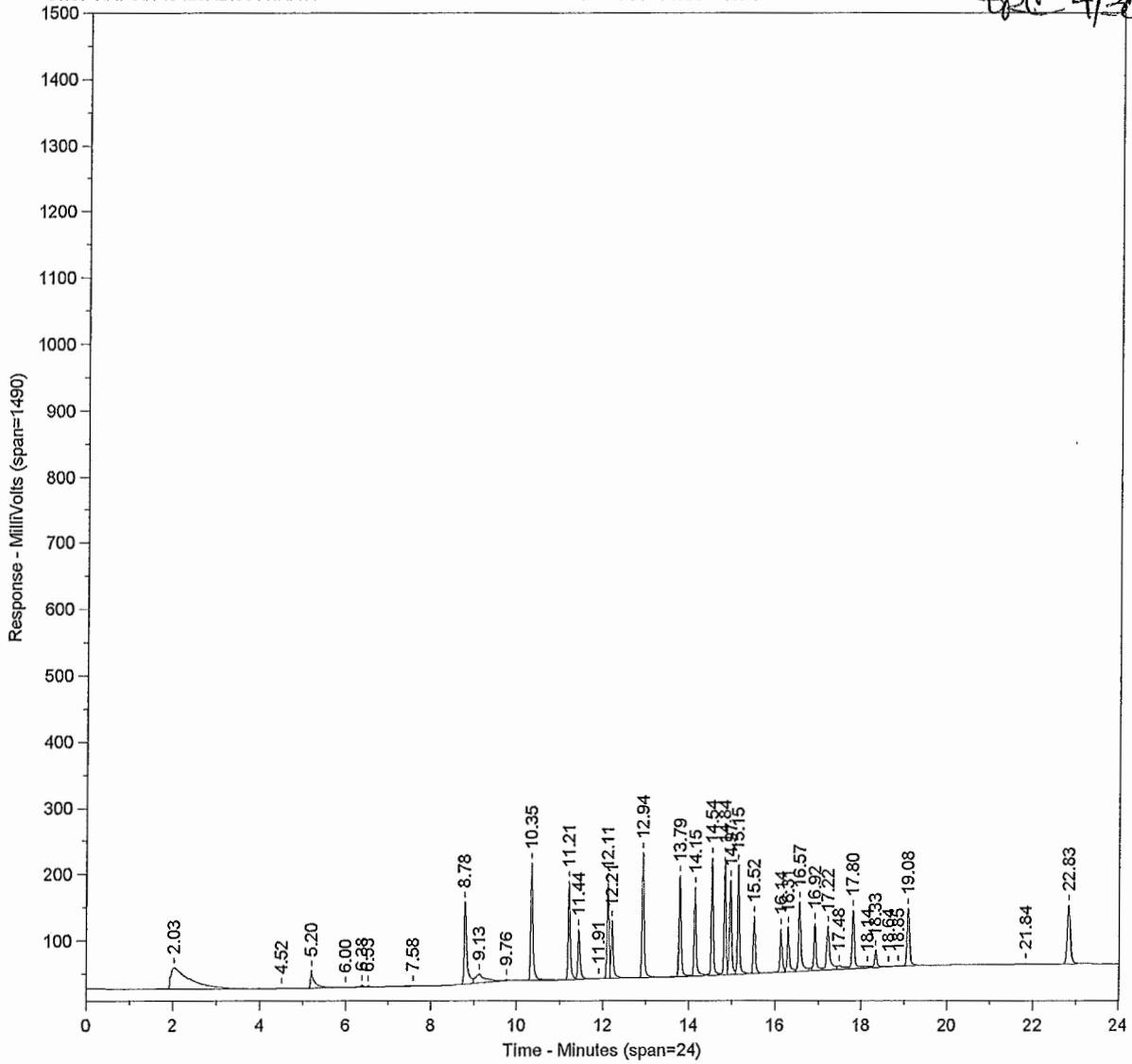
* Used Linear Regression

Chrom Perfect Chromatogram Report

NOT EVAL
DRC 4/30/14

— G:\CP1\HP9\I140429AB.0016.RAW

0.050 PPM PEST STD 1008226



Printed on 4/30/14 10:44:02 AM

Page 1 of 2

Sample Name = **0.050 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

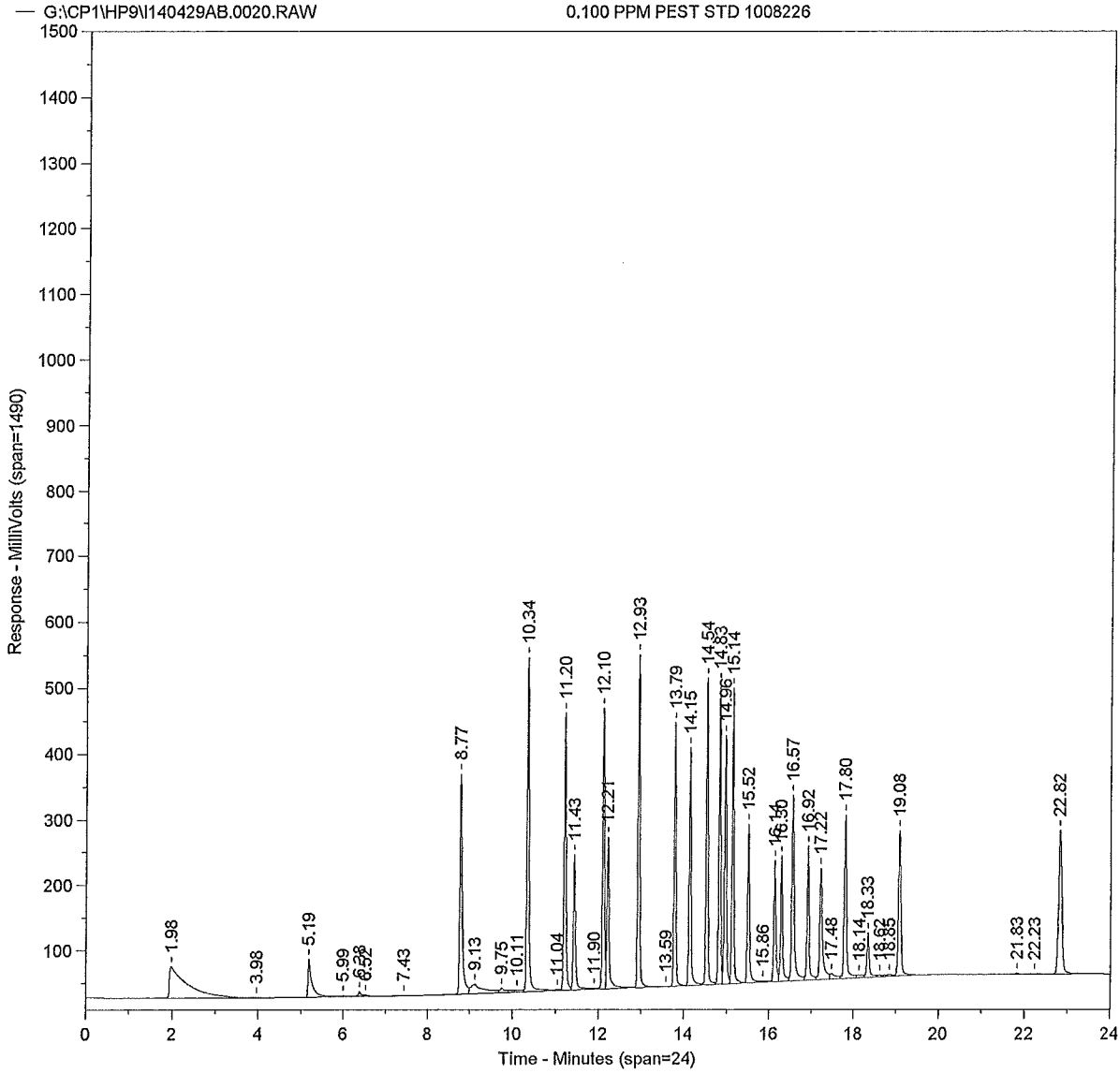
Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0016.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 7:41:11 PM
Method Version = 201
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.03		0.00	0.000	982208	8.810	BB	0.41
2	4.52		0.00	0.000	1600	0.014	BB	0.20
3	5.20		0.00	0.000	175415	1.573	BV	0.06
4	6.00		0.00	0.000	5447	0.049	VV	0.09
5	6.38		0.00	0.000	26253	0.235	VV	0.09
6	6.53		0.00	0.000	9483	0.085	VB	0.09
7	7.58		0.00	0.000	3709	0.033	BB	0.32
8	8.78	CL4XYL	0.04	10.368	552280	4.954	BV	0.06
9	9.13		0.00	0.000	228439	2.049	VV	0.14
10	9.76		0.00	0.000	9346	0.084	VB	0.06
11	10.35	ABHC	0.04	10.158	638547	5.727	BB	0.05
12	11.21	LINDANE	0.04	9.763	503771	4.518	BV	0.05
13	11.44	BBHC	0.04	9.963	290472	2.605	VV	0.05
14	11.91		0.00	0.000	4378	0.039	VV	0.10
15	12.11	DBHC	0.04	9.125	458829	4.115	VV	0.05
16	12.21	HPCL	0.05	11.432	320906	2.878	VB	0.05
17	12.94	ALDRN	0.04	9.918	621765	5.577	BB	0.05
18	13.79		0.00	0.000	503681	4.518	BV	0.05
19	14.15	HPCLE	0.04	9.833	452064	4.055	VV	0.05
20	14.54		0.00	0.000	560955	5.031	VV	0.04
21	14.84		0.00	0.000	543730	4.877	VV	0.05
22	14.97		0.00	0.000	489939	4.394	VV	0.05
23	15.15		0.00	0.000	525099	4.710	VV	0.04
24	15.52		0.00	0.000	286153	2.567	VB	0.05
25	16.14		0.00	0.000	242975	2.179	BV	0.05
26	16.31		0.00	0.000	253699	2.275	VV	0.05
27	16.57		0.00	0.000	443503	3.978	VV	0.06
28	16.92	PPDDT *	0.04	9.851	257846	2.313	VV	0.05
29	17.22		0.00	0.000	316426	2.838	VV	0.06
30	17.48		0.00	0.000	63377	0.568	VV	0.09
31	17.80		0.00	0.000	358179	3.213	VV	0.05
32	18.14		0.00	0.000	25973	0.233	VV	0.08
33	18.33		0.00	0.000	103452	0.928	VV	0.05
34	18.64		0.00	0.000	10174	0.091	VV	0.11
35	18.85		0.00	0.000	8952	0.080	VV	0.08
36	19.08		0.00	0.000	377733	3.388	VB	0.07
37	21.84		0.00	0.000	4351	0.039	BB	0.09
38	22.83	CL10BP	0.04	9.591	488181	4.379	BB	0.08

Total Area = 1.114929E+07 Total Height = 2716949 Total Amount = 0.3954595


G:\CP1\HP9\I140429AB.0020.RAW
0.100 PPM PEST STD 1008226
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1.98
3.98
5.19
5.99
7.43
8.77
9.13
9.75
10.11
10.34
11.04
11.20
11.43
11.90
12.10
12.21
12.93
13.59
13.79
14.15
14.54
14.83
14.96
15.14
15.52
15.86
16.57
16.92
17.22
17.48
17.80
18.14
18.33
19.08
21.83
22.23
22.82

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0020.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 9:30:36 PM
Method Version = 201
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.98		0.00	0.000	1386971	5.075	BV	0.37
2	3.98		0.00	0.000	4571	0.017	VB	0.07
3	5.19		0.00	0.000	373683	1.367	BV	0.07
4	5.99		0.00	0.000	12762	0.047	VV	0.07
5	6.38		0.00	0.000	40350	0.148	VV	0.06
6	6.52		0.00	0.000	12638	0.046	VB	0.09
7	7.43		0.00	0.000	1978	0.007	BB	0.23
8	8.77	CL4XYL	0.10	9.736	1359755	4.976	BV	0.05
9	9.13		0.00	0.000	308310	1.128	VV	0.16
10	9.75		0.00	0.000	58095	0.213	VV	0.05
11	10.11		0.00	0.000	34106	0.125	VV	0.06
12	10.34	ABHC	0.11	10.566	1741420	6.372	VV	0.05
13	11.04		0.00	0.000	10151	0.037	VV	0.07
14	11.20	LINDANE	0.10	10.010	1354257	4.956	VV	0.05
15	11.43	BBHC	0.10	9.527	728226	2.665	VV	0.05
16	11.90		0.00	0.000	13289	0.049	VV	0.07
17	12.10	DBHC	0.10	10.063	1326686	4.855	VV	0.05
18	12.21	HPCL	0.12	11.533	848787	3.106	VV	0.05
19	12.93	ALDRN	0.10	9.684	1591763	5.825	VV	0.05
20	13.59		0.00	0.000	1342	0.005	VB	0.09
21	13.79		0.00	0.000	1268053	4.640	BV	0.05
22	14.15	HPCLE	0.10	9.670	1165650	4.265	VV	0.05
23	14.54		0.00	0.000	1416174	5.182	VV	0.04
24	14.83		0.00	0.000	1367007	5.002	VV	0.04
25	14.96		0.00	0.000	1242611	4.547	VV	0.05
26	15.14		0.00	0.000	1357457	4.967	VV	0.04
27	15.52		0.00	0.000	808278	2.958	VV	0.05
28	15.86		0.00	0.000	13755	0.050	VV	0.07
29	16.14		0.00	0.000	656967	2.404	VV	0.05
30	16.30		0.00	0.000	649372	2.376	VV	0.05
31	16.57		0.00	0.000	1138473	4.166	VV	0.05
32	16.92	PPDDT *	0.10	10.081	667652	2.443	VV	0.04
33	17.22		0.00	0.000	761656	2.787	VV	0.06
34	17.48		0.00	0.000	79322	0.290	VV	0.10
35	17.80		0.00	0.000	956811	3.501	VV	0.05
36	18.14		0.00	0.000	40330	0.148	VV	0.07
37	18.33		0.00	0.000	271280	0.993	VV	0.05
38	18.62		0.00	0.000	16541	0.061	VV	0.08
39	18.85		0.00	0.000	29409	0.108	VV	0.09
40	19.08		0.00	0.000	977976	3.579	VB	0.06
41	21.83		0.00	0.000	10310	0.038	BB	0.08
42	22.23		0.00	0.000	5380	0.020	BB	0.16
43	22.82	CL10BP	0.09	9.130	1218373	4.458	BB	0.08

Total Area = 2.732798E+07 Total Height = 7383456 Total Amount = 1.036821

**********PESTICIDE ANALYSIS**********

Sample Name = **0.100 PPM PEST STD 1008226**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0020.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 9:30:36 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:41:58 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Peak #	Ret. Time	Name	Response	Area	%D	CF
8	8.77	CL4XYL	0.101	1359755	0.9	13470371
12	10.34	ABHC	0.110	1741420	9.5	15896177
14	11.20	LINDANE	0.104	1354257	3.8	13048558
15	11.43	BBHC	0.099	728226	-1.2	7372642
17	12.10	DBHC	0.104	1326686	4.3	12715453
18	12.21	HPCL	0.120	848787	19.6	7098509
19	12.93	ALDRN	0.100	1591763	0.4	15852767
22	14.15	HPCLE	0.100	1165650	0.3	11625932
32	16.92	PPDDT *	0.105	667652	4.5	6988384
43	22.82	CL10BP	0.095	1218373	-5.3	12870687

Checked By: TRC Date: 4/30/14

* Used Linear Regression

Instrument Logs/
Analysis Notebook Pages

Rev. 1.1

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PROJECT HP9 DETA 4/25/14 PEST

Notebook No. 3245

Continued From Page

DRC 4/28/14

Chrom Perfect Sequence File

I140424.29.RAW HEXANE

1	I140424~~.1.raw~~ (1).1.RAW	EVAL 1008214 PASS	H:\CP1\HP9\PEST.met
2	I140425.2.raw	0.250 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
3	I140425.3.raw	0.125 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
4	I140425.4.raw	0.100 PPM PEST STD 1008226 PESTHAWAII06A	H:\CP1\HP9\PEST.met
5	I140425.5.raw	0.050 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
6	I140425.6.raw	0.025 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
7	I140425.7.raw	0.010 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
8	I140425.8.raw	0.100 PPM PEST ICV STD 1008225 PASS	H:\CP1\HP9\PEST.met

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Read and Understood By

Signed	Date	Signed	Date
DRC	4/28/14	[illegible]	05/01/14

4/28/14

Chrom Perfect Sequence File

I140424B.29.RAW HEXANE

1	I140424B ~~1.raw~~ (1).I.RAW	EVAL 1008214 PASS	H:\CP1\HP9\PEST.met
2	I140425 2.raw	0.250 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
3	I140425 3.raw	0.125 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
4	I140425 4.raw	0.100 PPM PEST STD 1008226 PESTHAWAII06B	H:\CP1\HP9\PEST.met
5	I140425 5.raw	0.050 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
6	I140425 6.raw	0.025 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
7	I140425 7.raw	0.010 PPM PEST STD 1008226	H:\CP1\HP9\PEST.met
8	I140425 8.raw	0.100 PPM PEST ICV STD 1008225 PASS	H:\CP1\HP9\PEST.met

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
DRC	4/28/14		06/01/14

PROJECT HP9 DETA 4/29/14 PEST

Notebook No. 3245

Continued From Page

GRC 4/30/14

Chrom Perfect Sequence File PESTHAWA1106A

GRC 5/1/14

28.24.RAW

1	I140429A.1.raw	HEXANE	H:\CP1\HP9\PEST.met
2	I140429A.2.raw	EVAL 1008214 PASS	H:\CP1\HP9\PEST.met
3	I140429A.3.raw	0.100 PPM PEST STD 1008226 FAIL	H:\CP1\HP9\PEST.met
4	I140429A.4.raw	0.100 PPM PEST STD 1008226 PASS	H:\CP1\HP9\PEST.met
5	I140429A.5.raw	006615-05B1 B10175	H:\CP1\HP9\PEST.met
6	I140429A.6.raw	006615-05K1 B10175	H:\CP1\HP9\PEST.met
7	I140429A.7.raw	GPC 3/26/14 B10175	H:\CP1\HP9\PEST.met
8	I140429A.8.raw	006615-01 B10175	H:\CP1\HP9\PEST.met
9	I140429A.9.raw	006615-02 B10175	H:\CP1\HP9\PEST.met
10	I140429A.10.raw	006615-03 B10175	H:\CP1\HP9\PEST.met
11	I140429A.11.raw	006615-04 B10175	H:\CP1\HP9\PEST.met
12	I140429A.12.raw	006615-05 B10175	H:\CP1\HP9\PEST.met
13	I140429A.13.raw	006615-05MS B10175	H:\CP1\HP9\PEST.met
14	I140429A.14.raw	006615-05MD B10175	H:\CP1\HP9\PEST.met
15	I140429A.15.raw	0.100 PPM PEST STD 1008226 PASS	H:\CP1\HP9\PEST.met
16	I140429A.16.raw	0.050 PPM PEST STD 1008226 NOT EVAL	H:\CP1\HP9\PEST.met
17	I140429A.17.raw	006615-06 B10175	H:\CP1\HP9\PEST.met
18	I140429A.18.raw	006615-07 B10175	H:\CP1\HP9\PEST.met
19	I140429A.19.raw	006615-08 B10175	H:\CP1\HP9\PEST.met
20	I140429A.20.raw	0.100 PPM PEST STD 1008226 PASS	H:\CP1\HP9\PEST.met

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Read and Understood By

Signed	Date	Signed	Date
GRC	4/30/14	[illegible]	05/01/14

TRC 4/30/14

Chrom Perfect Sequence File PESTHAWAIIDLB

TRC 5/1/14

285.24.RAW

1	I140429A~~1.raw~~	HEXANE	H:\CP1\HP9\PEST.met
2	I140429A2.raw	EVAL 1008214 PASS	H:\CP1\HP9\PEST.met
3	I140429A3.raw	0.100 PPM PEST STD 1008226 FAIL	H:\CP1\HP9\PEST.met
4	I140429A4.raw	0.100 PPM PEST STD 1008226 PASS	H:\CP1\HP9\PEST.met
5	I140429A5.raw	006615-05B1 B10175	H:\CP1\HP9\PEST.met
6	I140429A6.raw	006615-05K1 B10175	H:\CP1\HP9\PEST.met
7	I140429A7.raw	GPC 3/26/14 B10175	H:\CP1\HP9\PEST.met
8	I140429A8.raw	006615-01 B10175	H:\CP1\HP9\PEST.met
9	I140429A9.raw	006615-02 B10175	H:\CP1\HP9\PEST.met
10	I140429A10.raw	006615-03 B10175	H:\CP1\HP9\PEST.met
11	I140429A11.raw	006615-04 B10175	H:\CP1\HP9\PEST.met
12	I140429A12.raw	006615-05 B10175	H:\CP1\HP9\PEST.met
13	I140429A13.raw	006615-05MS B10175	H:\CP1\HP9\PEST.met
14	I140429A14.raw	006615-05MD B10175	H:\CP1\HP9\PEST.met
15	I140429A15.raw	0.100 PPM PEST STD 1008226 PASS	H:\CP1\HP9\PEST.met
16	I140429A16.raw	0.050 PPM PEST STD 1008226 NOT EVAL	H:\CP1\HP9\PEST.met
17	I140429A17.raw	006615-06 B10175	H:\CP1\HP9\PEST.met
18	I140429A18.raw	006615-07 B10175	H:\CP1\HP9\PEST.met
19	I140429A19.raw	006615-08 B10175	H:\CP1\HP9\PEST.met
20	I140429A20.raw	0.100 PPM PEST STD 1008226 PASS	H:\CP1\HP9\PEST.met

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
TRC	4/30/14	[illegible]	05/01/14

Blank / Field Sample / QC Data

Sample Results

Chromatogram

Quant Report (If applicable)

Confirmation Analysis Quant Report / Chromatogram (If applicable)

Tentatively Identified Compounds (If required)

Rev. 1.1

METHOD BLANK REPORT
ARDL, Inc. 400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

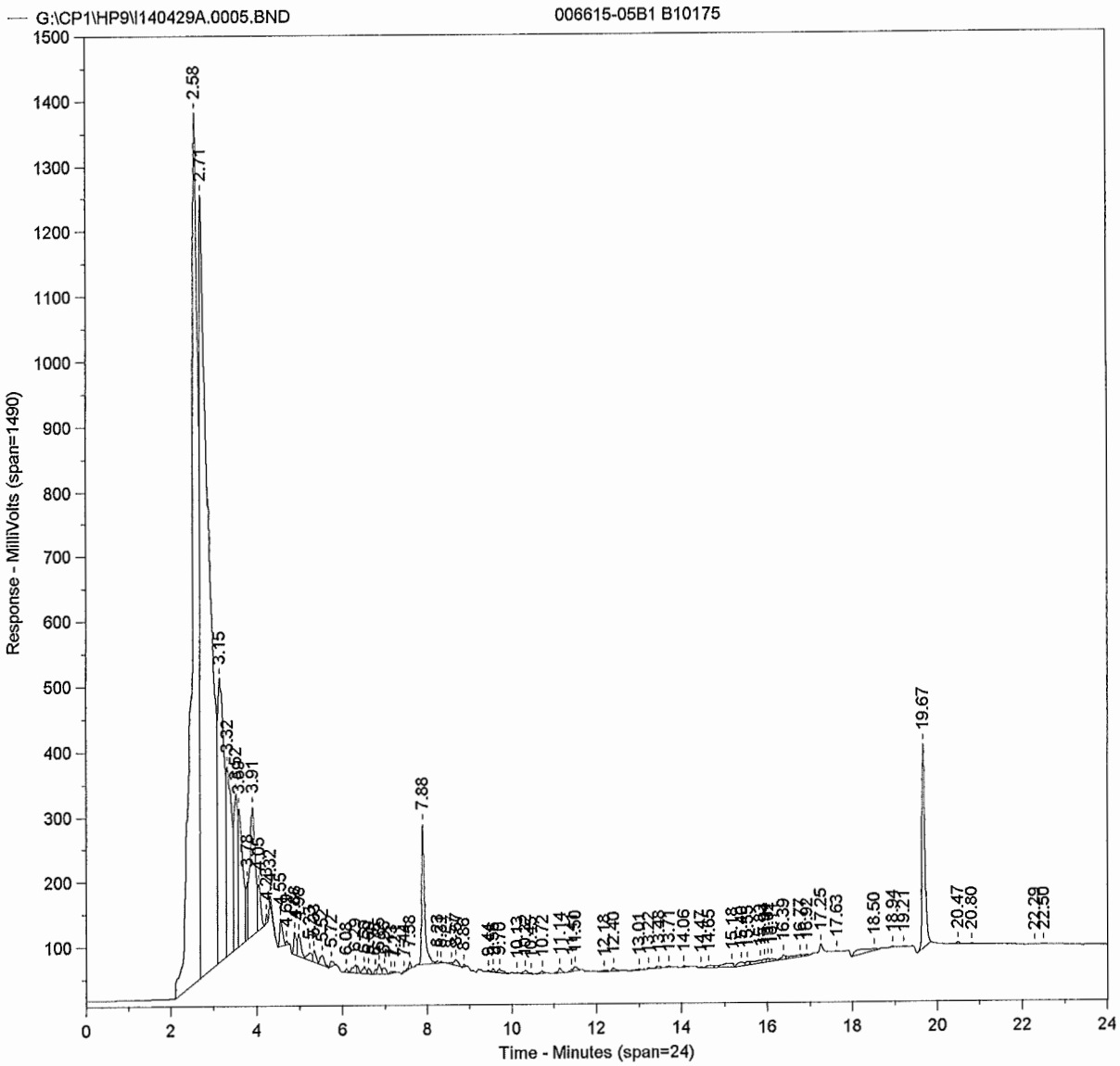
Field ID:	NA	ARDL Lab No.:	006615-05B1
Desc/Location:	NA	Lab Filename:	
Sample Date:	NA	Received Date:	NA
Sample Time:	NA	Prep. Date:	03/26/2014
Matrix:	QC Material	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	NA	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units
alpha-BHC	4.00	4.00	ND		UG/KG
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG
delta-BHC	4.00	4.00	ND		UG/KG
Heptachlor	4.00	4.00	ND		UG/KG
Aldrin	4.00	4.00	ND		UG/KG
Heptachlor Epoxide	4.00	4.00	ND		UG/KG
p,p'-DDT	4.00	4.00	ND		UG/KG
beta-BHC	4.00	4.00	ND		UG/KG

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	119%
Decachlorobiphenyl	25-125	125%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Blank for Run B10175, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0005.BND
006615-05B1 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.58
2.71
3.15
3.32
3.91
7.88
19.67
17.25
17.63
18.50
20.47
20.80
22.29
22.50

Primary

Sample Name = **006615-05B1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0005.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 2:40:20 PM
Method Version = 210
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.58		0.00	0.000	15324631	30.103	BV	0.16
2	2.71		0.00	0.000	18126882	35.608	VV	0.16
3	3.15		0.00	0.000	4424509	8.691	VV	0.13
4	3.32		0.00	0.000	2506006	4.923	VV	0.11
5	3.52		0.00	0.000	1449055	2.846	VV	0.07
6	3.59		0.00	0.000	1602928	3.149	VV	0.09
7	3.78		0.00	0.000	274628	0.539	VV	0.03
8	3.91		0.00	0.000	1762240	3.462	VV	0.10
9	4.05		0.00	0.000	338372	0.665	VB	0.08
10	4.23		0.00	0.000	34149	0.067	BB	0.05
11	4.32		0.00	0.000	43596	0.086	BB	0.07
12	4.55		0.00	0.000	198806	0.391	BV	0.08
13	4.69		0.00	0.000	17884	0.035	VB	0.04
14	4.88		0.00	0.000	160761	0.316	BV	0.09
15	4.98		0.00	0.000	185823	0.365	VV	0.09
16	5.23		0.00	0.000	89996	0.177	VV	0.11
17	5.33		0.00	0.000	81643	0.160	VV	0.08
18	5.52		0.00	0.000	106603	0.209	VB	0.13
19	5.72		0.00	0.000	41320	0.081	BB	0.11
20	6.08		0.00	0.000	20651	0.041	BV	0.05
21	6.29		0.00	0.000	75025	0.147	VV	0.12
22	6.50		0.00	0.000	55994	0.110	VV	0.07
23	6.60		0.00	0.000	39251	0.077	VB	0.09
24	6.76		0.00	0.000	22022	0.043	BV	0.05
25	6.85		0.00	0.000	73699	0.145	VV	0.05
26	6.96		0.00	0.000	58027	0.114	VB	0.11
27	7.13		0.00	0.000	13462	0.026	BV	0.07
28	7.21		0.00	0.000	9744	0.019	VB	0.06
29	7.44		0.00	0.000	6190	0.012	BV	0.06
30	7.58		0.00	0.000	38082	0.075	VB	0.06
31	7.88	CL4XYL	0.12	48.379	1089306	2.140	BV	0.07
32	8.23		0.00	0.000	11793	0.023	VV	0.05
33	8.31		0.00	0.000	6203	0.012	VB	0.05
34	8.57		0.00	0.000	14734	0.029	BV	0.08
35	8.67		0.00	0.000	61807	0.121	VB	0.15
36	8.86		0.00	0.000	10589	0.021	BB	0.06
37	9.44		0.00	0.000	4262	0.008	BV	0.04
38	9.56		0.00	0.000	19343	0.038	VV	0.06
39	9.70		0.00	0.000	38648	0.076	VB	0.14
40	10.13		0.00	0.000	3408	0.007	BV	0.06
41	10.32		0.00	0.000	30954	0.061	VV	0.11
42	10.45		0.00	0.000	7637	0.015	VB	0.08
43	10.72		0.00	0.000	18542	0.036	BB	0.12
44	11.14		0.00	0.000	44726	0.088	BB	0.10
45	11.41		0.00	0.000	13598	0.027	BV	0.06
46	11.50		0.00	0.000	39483	0.078	VB	0.09
47	12.18		0.00	0.000	12244	0.024	BV	0.17
48	12.40		0.00	0.000	25013	0.049	VB	0.09
49	13.01	HPCLE	0.00	0.474	11988	0.024	BV	0.20
50	13.22		0.00	0.000	9493	0.019	VV	0.09
51	13.48		0.00	0.000	24259	0.048	VV	0.14
52	13.71		0.00	0.000	9876	0.019	VB	0.12

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	14.06		0.00	0.000	6440	0.013	BB	0.11
54	14.47		0.00	0.000	5796	0.011	BV	0.06
55	14.65		0.00	0.000	32590	0.064	VV	0.17
56	15.18		0.00	0.000	102419	0.201	VB	0.33
57	15.40		0.00	0.000	59725	0.117	BV	0.19
58	15.55		0.00	0.000	30302	0.060	VV	0.08
59	15.83		0.00	0.000	62723	0.123	VV	0.11
60	15.94		0.00	0.000	26880	0.053	VV	0.07
61	16.02		0.00	0.000	24490	0.048	VV	0.04
62	16.11		0.00	0.000	30411	0.060	VB	0.15
63	16.39		0.00	0.000	41804	0.082	BV	0.09
64	16.77		0.00	0.000	48060	0.094	VV	0.16
65	16.92		0.00	0.000	19067	0.037	VB	0.10
66	17.25		0.00	0.000	2435	0.005	BB	0.03
67	17.63		0.00	0.000	4542	0.009	BB	0.10
68	18.50		0.00	0.000	161821	0.318	BB	0.59
69	18.94		0.00	0.000	4410	0.009	BB	0.05
70	19.21		0.00	0.000	5833	0.011	BB	0.19
71	19.67	CL10BP	0.13	51.147	1501378	2.949	BB	0.07
72	20.47		0.00	0.000	19972	0.039	BV	0.08
73	20.80		0.00	0.000	8141	0.016	VB	0.11
74	22.29		0.00	0.000	7131	0.014	BV	0.17
75	22.50		0.00	0.000	10682	0.021	VB	0.10

Total Area = 5.090693E+07 Total Height = 5020898 Total Amount = 0.2449854

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05B1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0005.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/2014 2:40:20 PM
Method Version = 210
Method Date = 4/29/2014 8:07:56 AM
Calibration Version = 8
Calibration Date = 4/29/2014 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

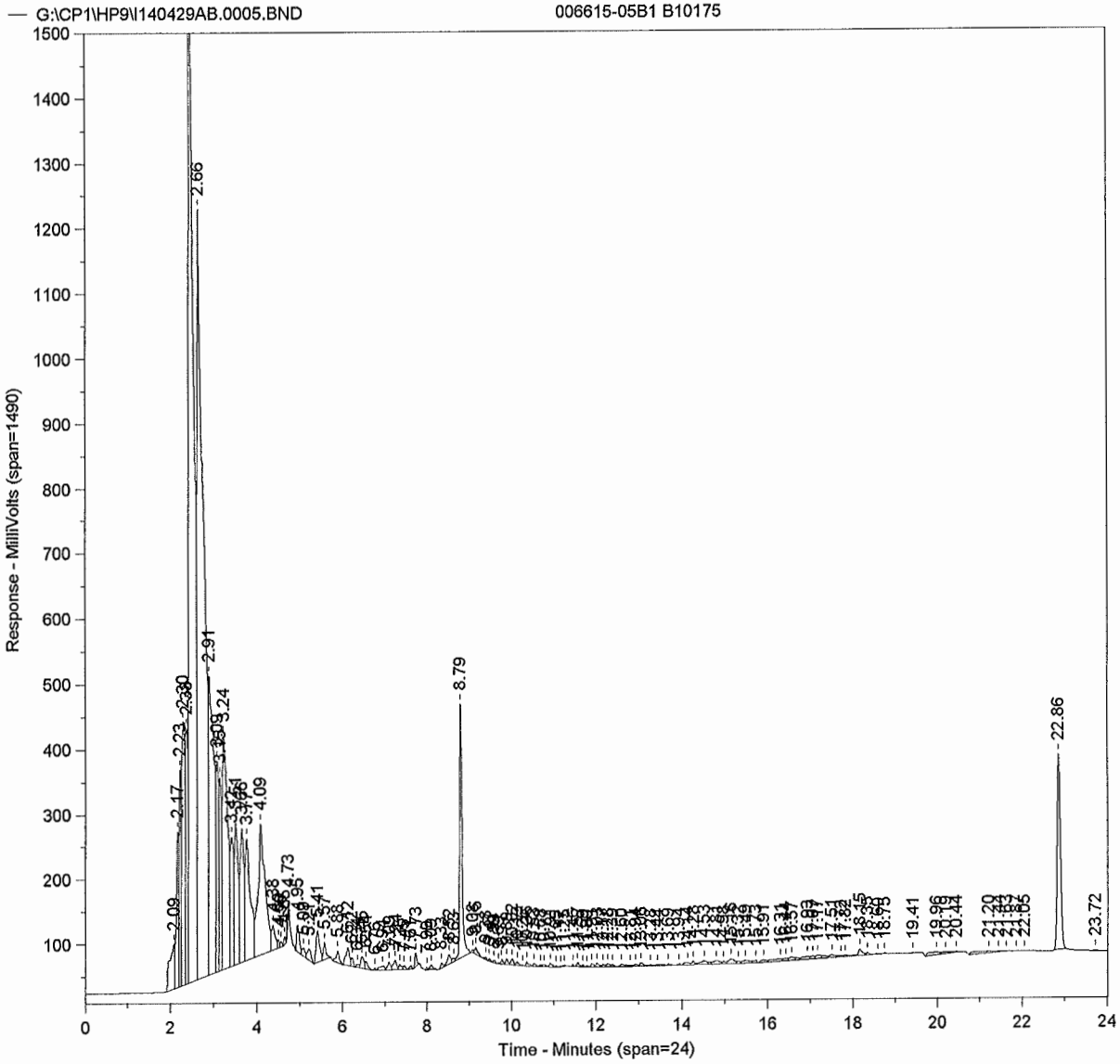
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.88	CL4XYL	1089306	9190794	0.119	119	47.409		
13.01	HPCLE	11988	10323798	0.001	1	0.464		UNDER
19.67	CL10BP	1501378	11981994	0.125	125	50.121		

* Linear regression

Checked By: _____ Date: 04/30/14


G:\CP1\HP9\I140429AB.0005.BND
006615-05B1 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.66
2.91
3.24
4.09
4.73
8.79
22.86
23.72
19.41

Sample Name = **006615-05B1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0005.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 2:40:20 PM
Method Version = 200
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	557715	0.998	BV	0.16
2	2.17		0.00	0.000	891363	1.595	VV	0.05
3	2.23		0.00	0.000	888054	1.589	VV	0.03
4	2.30		0.00	0.000	2514396	4.500	VV	0.08
5	2.38		0.00	0.000	1299235	2.325	VV	0.04
6	2.46		0.00	0.000	13815909	24.726	VV	0.11
7	2.66		0.00	0.000	12076797	21.613	VV	0.10
8	2.91		0.00	0.000	3846974	6.885	VV	0.10
9	3.09		0.00	0.000	1422394	2.546	VV	0.05
10	3.15		0.00	0.000	1057991	1.893	VV	0.04
11	3.24		0.00	0.000	3092020	5.534	VV	0.10
12	3.42		0.00	0.000	1044726	1.870	VV	0.06
13	3.51		0.00	0.000	1276625	2.285	VV	0.06
14	3.66		0.00	0.000	1326735	2.374	VV	0.07
15	3.77		0.00	0.000	1579776	2.827	VV	0.10
16	4.09		0.00	0.000	2282978	4.086	VV	0.13
17	4.38		0.00	0.000	220614	0.395	VV	0.08
18	4.50		0.00	0.000	35551	0.064	VV	0.04
19	4.56		0.00	0.000	22056	0.039	VB	0.05
20	4.65		0.00	0.000	27420	0.049	BB	0.05
21	4.73		0.00	0.000	64580	0.116	BB	0.04
22	4.95		0.00	0.000	194806	0.349	BV	0.07
23	5.09		0.00	0.000	64027	0.115	VV	0.08
24	5.21		0.00	0.000	103786	0.186	VB	0.12
25	5.41		0.00	0.000	284697	0.510	BV	0.10
26	5.57		0.00	0.000	116116	0.208	VB	0.06
27	5.88		0.00	0.000	87369	0.156	BB	0.07
28	6.12		0.00	0.000	163820	0.293	BV	0.09
29	6.22		0.00	0.000	45412	0.081	VV	0.06
30	6.34		0.00	0.000	21472	0.038	VV	0.08
31	6.45		0.00	0.000	92726	0.166	VV	0.08
32	6.54		0.00	0.000	53202	0.095	VB	0.08
33	6.76		0.00	0.000	8228	0.015	BB	0.04
34	6.94		0.00	0.000	55246	0.099	BV	0.16
35	7.09		0.00	0.000	63140	0.113	VV	0.08
36	7.24		0.00	0.000	77613	0.139	VV	0.08
37	7.35		0.00	0.000	33400	0.060	VV	0.09
38	7.45		0.00	0.000	24101	0.043	VB	0.07
39	7.61		0.00	0.000	20098	0.036	BB	0.08
40	7.73		0.00	0.000	66772	0.119	BB	0.06
41	7.99		0.00	0.000	9643	0.017	BV	0.05
42	8.09		0.00	0.000	27797	0.050	VB	0.07
43	8.33		0.00	0.000	26463	0.047	BV	0.08
44	8.52		0.00	0.000	79282	0.142	VV	0.10
45	8.63		0.00	0.000	24431	0.044	VV	0.05
46	8.79	CL4XYL	0.11	44.694	1509347	2.701	VB	0.05
47	9.08		0.00	0.000	12994	0.023	BV	0.05
48	9.15		0.00	0.000	47924	0.086	VV	0.10
49	9.38		0.00	0.000	8250	0.015	VB	0.06
50	9.47		0.00	0.000	9014	0.016	BV	0.06
51	9.59		0.00	0.000	13575	0.024	VB	0.09
52	9.69		0.00	0.000	2882	0.005	BV	0.04

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.77		0.00	0.000	24031	0.043	VV	0.05
54	9.89		0.00	0.000	35088	0.063	VV	0.05
55	10.02		0.00	0.000	37776	0.068	VV	0.06
56	10.13		0.00	0.000	21385	0.038	VB	0.09
57	10.26		0.00	0.000	2604	0.005	BV	0.04
58	10.36	ABHC	0.00	0.651	25931	0.046	VV	0.05
59	10.53		0.00	0.000	18370	0.033	VB	0.07
60	10.68		0.00	0.000	7622	0.014	BV	0.05
61	10.77		0.00	0.000	19539	0.035	VV	0.10
62	10.91		0.00	0.000	22635	0.041	VV	0.09
63	11.05		0.00	0.000	3168	0.006	VB	0.05
64	11.17		0.00	0.000	3524	0.006	BV	0.05
65	11.25	LINDANE	0.00	0.217	7095	0.013	VB	0.05
66	11.46	BBHC	0.00	0.407	7532	0.013	BV	0.04
67	11.57		0.00	0.000	26473	0.047	VV	0.07
68	11.69		0.00	0.000	7286	0.013	VB	0.06
69	11.80		0.00	0.000	4405	0.008	BV	0.05
70	11.91		0.00	0.000	19154	0.034	VV	0.08
71	12.03		0.00	0.000	24474	0.044	VV	0.06
72	12.17		0.00	0.000	21293	0.038	VV	0.09
73	12.28		0.00	0.000	20513	0.037	VV	0.05
74	12.39		0.00	0.000	12986	0.023	VB	0.08
75	12.60		0.00	0.000	19130	0.034	BV	0.11
76	12.81		0.00	0.000	10147	0.018	VV	0.07
77	12.94	ALDRN	0.00	0.430	17079	0.031	VV	0.09
78	13.06		0.00	0.000	25075	0.045	VV	0.07
79	13.28		0.00	0.000	5691	0.010	VV	0.06
80	13.44		0.00	0.000	14390	0.026	VV	0.17
81	13.69		0.00	0.000	8374	0.015	VV	0.07
82	13.94		0.00	0.000	6114	0.011	VB	0.06
83	14.14	HPCLE	0.00	1.161	33843	0.061	BV	0.17
84	14.28		0.00	0.000	22074	0.040	VV	0.05
85	14.53		0.00	0.000	58022	0.104	VV	0.17
86	14.81		0.00	0.000	59951	0.107	VV	0.11
87	14.98		0.00	0.000	21023	0.038	VV	0.08
88	15.16		0.00	0.000	75254	0.135	VV	0.12
89	15.32		0.00	0.000	19552	0.035	VV	0.05
90	15.49		0.00	0.000	53692	0.096	VV	0.13
91	15.73		0.00	0.000	24750	0.044	VB	0.12
92	15.91		0.00	0.000	39164	0.070	BV	0.18
93	16.31		0.00	0.000	67155	0.120	VV	0.23
94	16.44		0.00	0.000	31111	0.056	VV	0.10
95	16.57		0.00	0.000	44173	0.079	VV	0.10
96	16.93	PPDDT *	0.01	2.686	56444	0.101	VV	0.17
97	17.07		0.00	0.000	29802	0.053	VV	0.08
98	17.17		0.00	0.000	45255	0.081	VV	0.11
99	17.51		0.00	0.000	39726	0.071	VV	0.09
100	17.72		0.00	0.000	13329	0.024	VV	0.06
101	17.82		0.00	0.000	16560	0.030	VV	0.11
102	18.15		0.00	0.000	72287	0.129	VV	0.10
103	18.35		0.00	0.000	21451	0.038	VV	0.07
104	18.60		0.00	0.000	10191	0.018	VV	0.15
105	18.75		0.00	0.000	4248	0.008	VB	0.05
106	19.41		0.00	0.000	2572	0.005	BB	0.11
107	19.96		0.00	0.000	79910	0.143	BV	0.31
108	20.19		0.00	0.000	30088	0.054	VV	0.12
109	20.44		0.00	0.000	5733	0.010	VB	0.10
110	21.20		0.00	0.000	88419	0.158	BV	0.53
111	21.44		0.00	0.000	12747	0.023	VV	0.11
112	21.63		0.00	0.000	6505	0.012	VB	0.13
113	21.87		0.00	0.000	3735	0.007	BV	0.08
114	22.05		0.00	0.000	4177	0.007	VB	0.08
115	22.86	CL10BP	0.12	49.754	1605451	2.873	BB	0.08
116	23.72		0.00	0.000	7370	0.013	BB	0.10

Total Area = 5.58762E+07 Total Height = 8111954 Total Amount = 0.2507055

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05B1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0005.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 2:40:20 PM
Method Version = 200
Method Date = 4/29/14 7:51:22 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:01:29 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.79	CL4XYL	1509347	13470371	0.112	112.0	44.820		
10.36	ABHC	25931	15896177	0.002	1.6	0.653		UNDER
11.25	LINDANE	7095	13048558	0.001	0.5	0.217		UNDER
11.46	BBHC	7532	7372642	0.001	1.0	0.409		UNDER
12.94	ALDRN	17079	15852767	0.001	1.1	0.431		UNDER
14.14	HPCLE	33843	11625932	0.003	2.9	1.164		UNDER
16.93	PPDDT *	56444	6988384	0.007	6.7	2.694		UNDER
22.86	CL10BP	1605451	12870687	0.125	124.7	49.895		

* Linear regression

Checked By: TRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

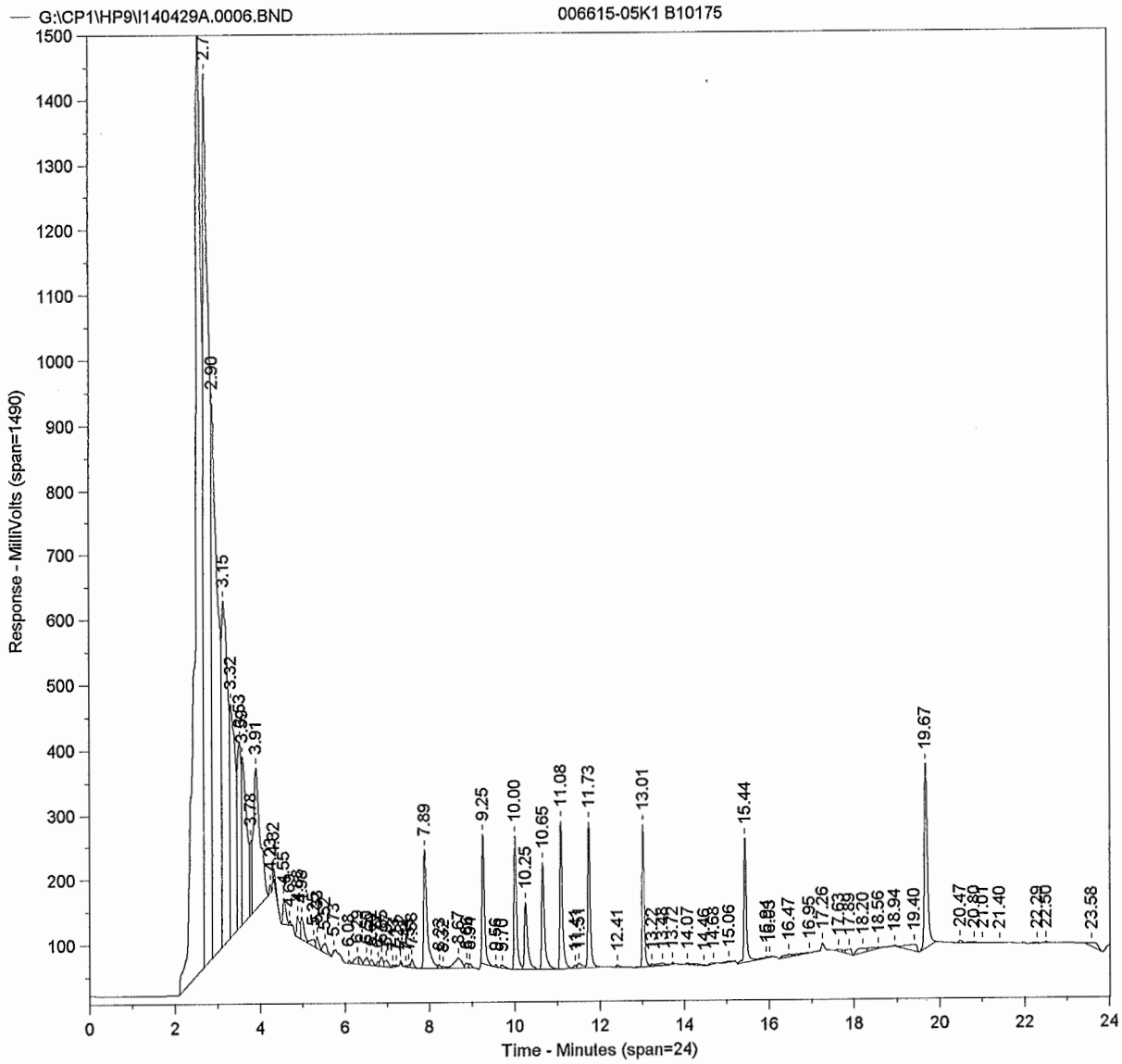
Field ID:	NA	ARDL Lab No.:	006615-05K1
Desc/Location:	NA	Lab Filename:	
Sample Date:	NA	Received Date:	NA
Sample Time:	NA	Prep. Date:	03/26/2014
Matrix:	QC Material	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	NA	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units
alpha-BHC	4.00	4.00	27.5		UG/KG
gamma-BHC (Lindane)	4.00	4.00	30.2		UG/KG
delta-BHC	4.00	4.00	28.5		UG/KG
Heptachlor	4.00	4.00	32.2		UG/KG
Aldrin	4.00	4.00	29.4		UG/KG
Heptachlor Epoxide	4.00	4.00	31.2		UG/KG
p,p'-DDT	4.00	4.00	34.0		UG/KG
beta-BHC	4.00	4.00	36.4		UG/KG

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	115%
Decachlorobiphenyl	25-125	119%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Spike Blank for Run , CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0006.BND
006615-05K1 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.90
3.15
3.32
3.91
3.78
7.89
9.25
10.00
10.25
10.65
11.08
11.73
12.41
13.01
15.44
16.47
16.95
17.26
18.20
18.56
18.94
19.40
19.67
20.47
21.40
22.29
23.58

Primary

Sample Name = **006615-05K1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0006.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 3:07:37 PM
Method Version = 210
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.58		0.00	0.000	16817654	26.035	BV	0.16
2	2.72		0.00	0.000	12892765	19.959	VV	0.08
3	2.90		0.00	0.000	8423611	13.041	VV	0.09
4	3.15		0.00	0.000	5391072	8.346	VV	0.13
5	3.32		0.00	0.000	3057125	4.733	VV	0.11
6	3.53		0.00	0.000	1773021	2.745	VV	0.07
7	3.59		0.00	0.000	2044860	3.166	VV	0.10
8	3.78		0.00	0.000	362285	0.561	VV	0.03
9	3.91		0.00	0.000	2427502	3.758	VV	0.15
10	4.23		0.00	0.000	39125	0.061	VB	0.05
11	4.32		0.00	0.000	59199	0.092	BB	0.07
12	4.55		0.00	0.000	191062	0.296	BV	0.08
13	4.69		0.00	0.000	16603	0.026	VB	0.05
14	4.88		0.00	0.000	152739	0.236	BV	0.09
15	4.98		0.00	0.000	189523	0.293	VV	0.09
16	5.25		0.00	0.000	77332	0.120	VV	0.14
17	5.33		0.00	0.000	76003	0.118	VV	0.08
18	5.52		0.00	0.000	100855	0.156	VB	0.15
19	5.73		0.00	0.000	8654	0.013	BB	0.04
20	6.08		0.00	0.000	14393	0.022	BV	0.05
21	6.29		0.00	0.000	69701	0.108	VV	0.11
22	6.50		0.00	0.000	68098	0.105	VV	0.08
23	6.60		0.00	0.000	43596	0.067	VV	0.10
24	6.77		0.00	0.000	23569	0.036	VV	0.06
25	6.85		0.00	0.000	72241	0.112	VV	0.05
26	6.97		0.00	0.000	62125	0.096	VB	0.12
27	7.13		0.00	0.000	11014	0.017	BV	0.07
28	7.21		0.00	0.000	8353	0.013	VB	0.06
29	7.32		0.00	0.000	8172	0.013	BB	0.04
30	7.44		0.00	0.000	7509	0.012	BV	0.05
31	7.51		0.00	0.000	13848	0.021	VV	0.04
32	7.58		0.00	0.000	55865	0.086	VB	0.07
33	7.89	CL4XYL	0.11	13.382	1054083	1.632	BV	0.07
34	8.23		0.00	0.000	22728	0.035	VV	0.06
35	8.32		0.00	0.000	18255	0.028	VV	0.04
36	8.67		0.00	0.000	200743	0.311	VV	0.19
37	8.86		0.00	0.000	40784	0.063	VV	0.07
38	8.94		0.00	0.000	29320	0.045	VB	0.07
39	9.25	ABHC *	0.07	8.028	800386	1.239	BB	0.06
40	9.56		0.00	0.000	13233	0.020	BB	0.07
41	9.70		0.00	0.000	34171	0.053	BB	0.16
42	10.00	LINDANE *	0.08	8.801	867306	1.343	BV	0.06
43	10.25	BBHC	0.09	10.631	524163	0.811	VV	0.07
44	10.65	DBHC *	0.07	8.302	741621	1.148	VB	0.06
45	11.08	HPCL	0.08	9.405	921116	1.426	BV	0.06
46	11.41		0.00	0.000	20601	0.032	VV	0.06
47	11.51		0.00	0.000	58091	0.090	VV	0.09
48	11.73	ALDRN *	0.07	8.565	871044	1.348	VB	0.06
49	12.41		0.00	0.000	19950	0.031	BB	0.10
50	13.01	HPCLE	0.08	9.104	805517	1.247	BV	0.05
51	13.22		0.00	0.000	18288	0.028	VV	0.08
52	13.48		0.00	0.000	37538	0.058	VB	0.20

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	13.72		0.00	0.000	8149	0.013	BB	0.07
54	14.07		0.00	0.000	17801	0.028	BV	0.07
55	14.46		0.00	0.000	5258	0.008	VB	0.06
56	14.68		0.00	0.000	20987	0.032	BB	0.21
57	15.06		0.00	0.000	20178	0.031	BB	0.26
58	15.44	PPDDT	0.09	9.927	720146	1.115	BV	0.05
59	15.94		0.00	0.000	15176	0.023	VV	0.08
60	16.03		0.00	0.000	4599	0.007	VB	0.04
61	16.47		0.00	0.000	54902	0.085	BV	0.22
62	16.95		0.00	0.000	36907	0.057	VB	0.22
63	17.26		0.00	0.000	2349	0.004	BB	0.04
64	17.63		0.00	0.000	25890	0.040	BV	0.15
65	17.89		0.00	0.000	64208	0.099	VB	0.16
66	18.20		0.00	0.000	108617	0.168	BV	0.26
67	18.56		0.00	0.000	54109	0.084	VB	0.24
68	18.94		0.00	0.000	9413	0.015	BV	0.09
69	19.40		0.00	0.000	166910	0.258	VB	0.39
70	19.67	CL10BP	0.12	13.855	1422811	2.203	BB	0.07
71	20.47		0.00	0.000	20363	0.032	BV	0.07
72	20.80		0.00	0.000	10152	0.016	VB	0.12
73	21.01		0.00	0.000	1543	0.002	BB	0.10
74	21.40		0.00	0.000	4806	0.007	BB	0.21
75	22.29		0.00	0.000	15620	0.024	BV	0.20
76	22.50		0.00	0.000	13141	0.020	VB	0.09
77	23.58		0.00	0.000	112917	0.175	BB	0.35

Total Area = 6.459536E+07 Total Height = 7875941 Total Amount = 0.8570486

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05K1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0006.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 3:07:37 PM
Method Version = 210
Method Date = 4/29/14 8:07:56 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

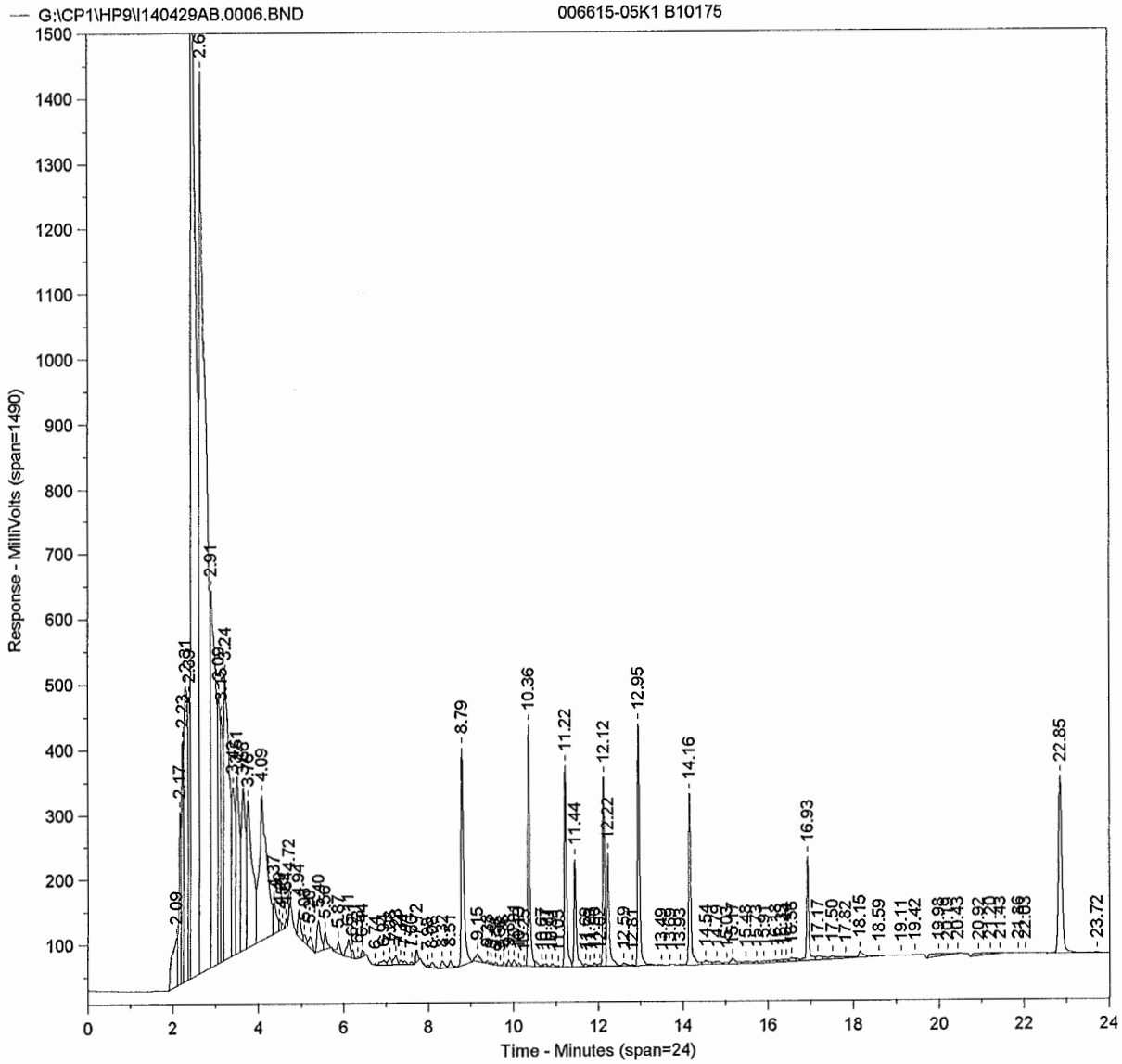
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD
7.89	CL4XYL	1054083	9190794	0.115	114.7	45.876	
9.25	ABHC *	800386	10460059	0.069	68.8	27.521	
10.00	LINDANE *	867306	10341835	0.075	75.4	30.171	
10.25	BBHC	524163	5752682	0.091	91.1	36.447	
10.65	DBHC *	741621	9281534	0.071	71.2	28.461	
11.08	HPCL	921116	11427910	0.081	80.6	32.241	
11.73	ALDRN *	871044	10902218	0.073	73.4	29.364	
13.01	HPCLE	805517	10323798	0.078	78.0	31.210	
15.44	PPDDT	720146	8464711	0.085	85.1	34.031	
19.67	CL10BP	1422811	11981994	0.119	118.7	47.498	

* Linear regression

Checked By: TRC Date: 4/30/14


G:\CP1\HP9\I140429AB.0006.BND
006615-05K1 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.09
2.17
2.23
2.81
2.91
3.24
4.09
4.72
8.79
10.36
11.22
11.44
12.12
12.22
12.95
14.16
16.93
22.85
23.72

Sample Name = **006615-05K1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140429AB.0006.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 3:07:37 PM
Method Version = 200
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	615215	0.862	BV	0.16
2	2.17		0.00	0.000	963322	1.349	VV	0.05
3	2.23		0.00	0.000	967208	1.355	VV	0.03
4	2.31		0.00	0.000	2777971	3.891	VV	0.08
5	2.39		0.00	0.000	1359411	1.904	VV	0.04
6	2.46		0.00	0.000	15587632	21.833	VV	0.10
7	2.67		0.00	0.000	14276960	19.997	VV	0.09
8	2.91		0.00	0.000	4895306	6.857	VV	0.09
9	3.09		0.00	0.000	1819383	2.548	VV	0.05
10	3.15		0.00	0.000	1288650	1.805	VV	0.04
11	3.24		0.00	0.000	3875213	5.428	VV	0.10
12	3.42		0.00	0.000	1368113	1.916	VV	0.06
13	3.51		0.00	0.000	1630256	2.283	VV	0.06
14	3.66		0.00	0.000	1619451	2.268	VV	0.07
15	3.76		0.00	0.000	2087081	2.923	VV	0.10
16	4.09		0.00	0.000	2757060	3.862	VV	0.14
17	4.37		0.00	0.000	287804	0.403	VV	0.07
18	4.49		0.00	0.000	51364	0.072	VV	0.04
19	4.55		0.00	0.000	26104	0.037	VB	0.05
20	4.64		0.00	0.000	29092	0.041	BB	0.04
21	4.72		0.00	0.000	85712	0.120	BB	0.05
22	4.94		0.00	0.000	199442	0.279	BV	0.07
23	5.08		0.00	0.000	59150	0.083	VV	0.06
24	5.20		0.00	0.000	101156	0.142	VB	0.11
25	5.40		0.00	0.000	282173	0.395	BV	0.10
26	5.56		0.00	0.000	119868	0.168	VB	0.06
27	5.87		0.00	0.000	89227	0.125	BB	0.08
28	6.11		0.00	0.000	159398	0.223	BV	0.09
29	6.21		0.00	0.000	41706	0.058	VB	0.06
30	6.33		0.00	0.000	7800	0.011	BB	0.07
31	6.44		0.00	0.000	41657	0.058	BB	0.08
32	6.74		0.00	0.000	6957	0.010	BB	0.05
33	6.94		0.00	0.000	59046	0.083	BV	0.17
34	7.08		0.00	0.000	66015	0.092	VV	0.08
35	7.23		0.00	0.000	84047	0.118	VV	0.08
36	7.34		0.00	0.000	36019	0.050	VV	0.09
37	7.44		0.00	0.000	28411	0.040	VB	0.08
38	7.60		0.00	0.000	18614	0.026	BB	0.08
39	7.72		0.00	0.000	62685	0.088	BB	0.07
40	7.98		0.00	0.000	10594	0.015	BV	0.05
41	8.08		0.00	0.000	46089	0.065	VB	0.10
42	8.32		0.00	0.000	62642	0.088	BV	0.09
43	8.51		0.00	0.000	56702	0.079	VB	0.06
44	8.79	CL4XYL	0.10	11.833	1398037	1.958	BB	0.06
45	9.15		0.00	0.000	76782	0.108	BV	0.14
46	9.38		0.00	0.000	13326	0.019	VV	0.09
47	9.47		0.00	0.000	9717	0.014	VV	0.05
48	9.58		0.00	0.000	14725	0.021	VB	0.09
49	9.68		0.00	0.000	1944	0.003	BV	0.03
50	9.76		0.00	0.000	20956	0.029	VV	0.06
51	9.88		0.00	0.000	35630	0.050	VV	0.05
52	10.01		0.00	0.000	40183	0.056	VV	0.06

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	10.13		0.00	0.000	20967	0.029	VB	0.07
54	10.25		0.00	0.000	2440	0.003	BV	0.04
55	10.36	ABHC	0.08	9.135	1273732	1.784	VV	0.05
56	10.67		0.00	0.000	11885	0.017	VV	0.05
57	10.77		0.00	0.000	26723	0.037	VV	0.10
58	10.91		0.00	0.000	25616	0.036	VV	0.09
59	11.05		0.00	0.000	6952	0.010	VB	0.05
60	11.22	LINDANE	0.08	9.300	1064429	1.491	BV	0.05
61	11.44	BBHC	0.08	9.514	615221	0.862	VV	0.05
62	11.69		0.00	0.000	18601	0.026	VV	0.05
63	11.79		0.00	0.000	11442	0.016	VV	0.05
64	11.90		0.00	0.000	24663	0.035	VV	0.05
65	12.02		0.00	0.000	17085	0.024	VV	0.05
66	12.12	DBHC	0.07	8.244	919457	1.288	VV	0.05
67	12.22	HPCL	0.09	10.762	670072	0.939	VV	0.05
68	12.59		0.00	0.000	30896	0.043	VV	0.10
69	12.81		0.00	0.000	4268	0.006	VV	0.08
70	12.95	ALDRN	0.08	9.001	1251530	1.753	VV	0.05
71	13.49		0.00	0.000	4840	0.007	VB	0.08
72	13.69		0.00	0.000	3469	0.005	BB	0.07
73	13.93		0.00	0.000	5158	0.007	BV	0.07
74	14.16	HPCLE	0.08	9.083	926194	1.297	VV	0.05
75	14.54		0.00	0.000	62902	0.088	VV	0.10
76	14.79		0.00	0.000	46775	0.066	VV	0.18
77	15.03		0.00	0.000	17877	0.025	VV	0.11
78	15.17		0.00	0.000	58324	0.082	VV	0.09
79	15.48		0.00	0.000	42820	0.060	VV	0.14
80	15.73		0.00	0.000	14761	0.021	VB	0.10
81	15.91		0.00	0.000	22424	0.031	BV	0.14
82	16.18		0.00	0.000	23445	0.033	VV	0.10
83	16.33		0.00	0.000	16517	0.023	VV	0.06
84	16.44		0.00	0.000	23023	0.032	VV	0.10
85	16.56		0.00	0.000	37529	0.053	VV	0.13
86	16.93	PPDDT *	0.08	9.626	542057	0.759	VV	0.05
87	17.17		0.00	0.000	44208	0.062	VV	0.09
88	17.50		0.00	0.000	35503	0.050	VV	0.08
89	17.82		0.00	0.000	23614	0.033	VV	0.16
90	18.15		0.00	0.000	63666	0.089	VV	0.09
91	18.59		0.00	0.000	5938	0.008	VB	0.17
92	19.11		0.00	0.000	1411	0.002	BB	0.10
93	19.42		0.00	0.000	2344	0.003	BB	0.11
94	19.98		0.00	0.000	85060	0.119	BV	0.32
95	20.19		0.00	0.000	27953	0.039	VV	0.12
96	20.43		0.00	0.000	4192	0.006	VB	0.10
97	20.92		0.00	0.000	46944	0.066	BV	0.21
98	21.20		0.00	0.000	41990	0.059	VV	0.21
99	21.43		0.00	0.000	8041	0.011	VB	0.14
100	21.86		0.00	0.000	4215	0.006	BV	0.09
101	22.03		0.00	0.000	2791	0.004	VB	0.09
102	22.85	CL10BP	0.12	13.502	1524292	2.135	BV	0.08
103	23.72		0.00	0.000	8940	0.013	VB	0.09

Total Area = 7.139419E+07 Total Height = 1.130142E+07 Total Amount = 0.8771155

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05K1 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **g:\CP1\HP9\I140429AB.0006.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 3:07:37 PM
Method Version = 200
Method Date = 4/29/14 7:51:22 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:01:29 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD
8.79	CL4XYL	1398037	13470371	0.104	103.8	41.514	
10.36	ABHC	1273732	15896177	0.080	80.1	32.051	
11.22	LINDANE	1064429	13048558	0.082	81.6	32.630	
11.44	BBHC	615221	7372642	0.083	83.4	33.379	
12.12	DBHC	919457	12715453	0.072	72.3	28.924	
12.22	HPCL	670072	7098509	0.094	94.4	37.758	
12.95	ALDRN	1251530	15852767	0.079	78.9	31.579	
14.16	HPCLE	926194	11625932	0.080	79.7	31.866	
16.93	PPDDT *	542057	6988384	0.084	84.4	33.772	
22.85	CL10BP	1524292	12870687	0.118	118.4	47.373	

* Linear regression

Checked By: BRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

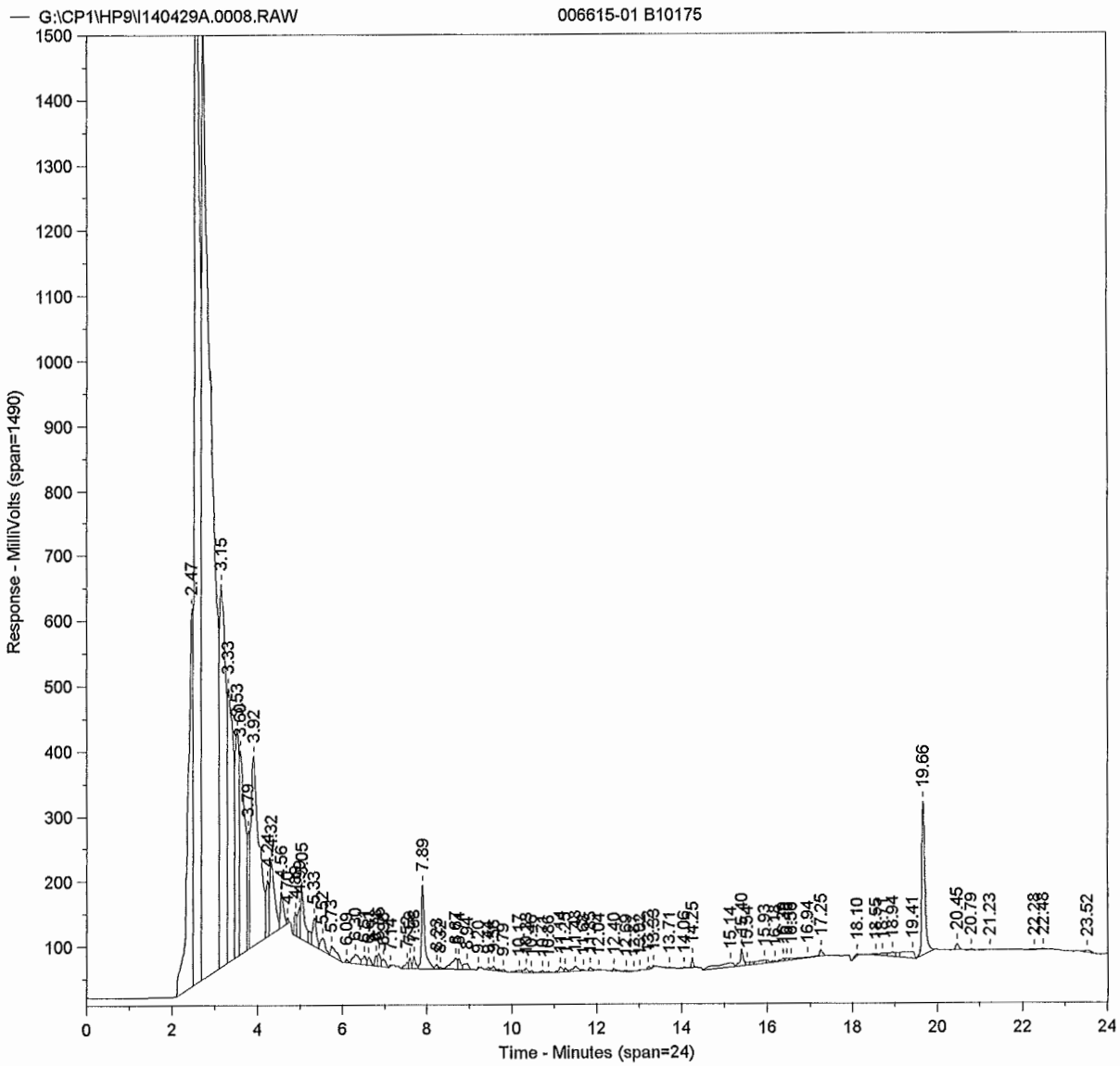
Field ID:	MAK111C	ARDL Lab No.:	006615-01
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1000	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	78%
Decachlorobiphenyl	25-125	99%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-01, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0008.RAW
006615-01 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.47
3.15
3.33
3.53
3.92
3.79
7.89
19.66
17.25
18.10
20.45
20.79
21.23
23.52

Primary

Sample Name = **006615-01 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0008.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 4:02:17 PM
Method Version = 210
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.47		0.00	0.000	4483329	6.469	BV	0.12
2	2.58		0.00	0.000	14799055	21.353	VV	0.14
3	2.72		0.00	0.000	23413438	33.782	VV	0.16
4	3.15		0.00	0.000	6059953	8.743	VV	0.13
5	3.33		0.00	0.000	3643436	5.257	VV	0.11
6	3.53		0.00	0.000	2231742	3.220	VV	0.07
7	3.60		0.00	0.000	2670511	3.853	VV	0.09
8	3.79		0.00	0.000	539846	0.779	VV	0.03
9	3.92		0.00	0.000	3946370	5.694	VV	0.15
10	4.24		0.00	0.000	425822	0.614	VV	0.05
11	4.32		0.00	0.000	863840	1.246	VV	0.12
12	4.56		0.00	0.000	292337	0.422	VV	0.07
13	4.70		0.00	0.000	27208	0.039	VB	0.05
14	4.89		0.00	0.000	127167	0.183	BV	0.06
15	4.99		0.00	0.000	205928	0.297	VV	0.04
16	5.05		0.00	0.000	447910	0.646	VV	0.08
17	5.33		0.00	0.000	261284	0.377	VV	0.09
18	5.52		0.00	0.000	150937	0.218	VV	0.14
19	5.73		0.00	0.000	159103	0.230	VB	0.21
20	6.09		0.00	0.000	21658	0.031	BV	0.05
21	6.30		0.00	0.000	149143	0.215	VV	0.18
22	6.51		0.00	0.000	88800	0.128	VV	0.06
23	6.61		0.00	0.000	63323	0.091	VV	0.09
24	6.78		0.00	0.000	60733	0.088	VV	0.06
25	6.85		0.00	0.000	97128	0.140	VV	0.07
26	6.96		0.00	0.000	71657	0.103	VB	0.11
27	7.14		0.00	0.000	8358	0.012	BB	0.08
28	7.52		0.00	0.000	52582	0.076	BV	0.11
29	7.59		0.00	0.000	65566	0.095	VV	0.05
30	7.68		0.00	0.000	87919	0.127	VV	0.05
31	7.89	CL4XYL	0.08	43.997	716801	1.034	VV	0.07
32	8.23		0.00	0.000	31869	0.046	VV	0.06
33	8.32		0.00	0.000	11403	0.016	VV	0.05
34	8.67		0.00	0.000	178509	0.258	VV	0.16
35	8.74		0.00	0.000	80783	0.117	VV	0.07
36	8.94		0.00	0.000	78960	0.114	VB	0.16
37	9.20		0.00	0.000	5297	0.008	BB	0.05
38	9.44		0.00	0.000	13936	0.020	BV	0.06
39	9.56		0.00	0.000	31634	0.046	VV	0.07
40	9.79		0.00	0.000	18763	0.027	VB	0.11
41	10.17		0.00	0.000	38178	0.055	BV	0.23
42	10.33		0.00	0.000	38295	0.055	VV	0.08
43	10.46		0.00	0.000	10504	0.015	VB	0.08
44	10.71		0.00	0.000	15519	0.022	BV	0.10
45	10.86		0.00	0.000	4313	0.006	VB	0.05
46	11.14		0.00	0.000	48772	0.070	BV	0.11
47	11.25		0.00	0.000	23325	0.034	VV	0.06
48	11.48		0.00	0.000	72398	0.104	VV	0.09
49	11.68		0.00	0.000	12152	0.018	VB	0.10
50	11.85		0.00	0.000	27910	0.040	BV	0.10
51	12.04		0.00	0.000	8253	0.012	VB	0.08
52	12.40		0.00	0.000	19254	0.028	BV	0.08

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	12.69		0.00	0.000	7078	0.010	VB	0.12
54	12.87		0.00	0.000	1447	0.002	BB	0.06
55	13.02	HPCLE	0.00	0.223	4086	0.006	BB	0.09
56	13.22		0.00	0.000	17023	0.025	BB	0.09
57	13.33		0.00	0.000	7033	0.010	BB	0.05
58	13.71		0.00	0.000	2700	0.004	BB	0.05
59	14.06		0.00	0.000	9280	0.013	BB	0.10
60	14.25		0.00	0.000	43689	0.063	BB	0.04
61	15.14		0.00	0.000	191967	0.277	BV	0.60
62	15.40		0.00	0.000	128430	0.185	VV	0.06
63	15.54		0.00	0.000	30382	0.044	VV	0.06
64	15.93		0.00	0.000	75965	0.110	VV	0.16
65	16.18		0.00	0.000	17250	0.025	VB	0.13
66	16.39		0.00	0.000	30411	0.044	BV	0.13
67	16.46		0.00	0.000	15992	0.023	VV	0.05
68	16.56		0.00	0.000	17856	0.026	VV	0.09
69	16.94		0.00	0.000	36476	0.053	VV	0.22
70	17.25		0.00	0.000	61153	0.088	VB	0.09
71	18.10		0.00	0.000	23990	0.035	BB	0.12
72	18.55		0.00	0.000	9688	0.014	BV	0.13
73	18.71		0.00	0.000	35117	0.051	VV	0.17
74	18.94		0.00	0.000	58141	0.084	VV	0.12
75	19.41		0.00	0.000	178124	0.257	VB	0.35
76	19.66	CL10BP	0.10	55.779	1184732	1.709	BB	0.07
77	20.45		0.00	0.000	47214	0.068	BV	0.07
78	20.79		0.00	0.000	8593	0.012	VB	0.13
79	21.23		0.00	0.000	7694	0.011	BB	0.39
80	22.28		0.00	0.000	13083	0.019	BV	0.20
81	22.48		0.00	0.000	11012	0.016	VB	0.09
82	23.52		0.00	0.000	29725	0.043	BB	0.24

Total Area = 6.930827E+07 Total Height = 7140816 Total Amount = 0.1772631

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-01 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0008.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 4:02:17 PM
Method Version = 210
Method Date = 4/29/14 8:07:56 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

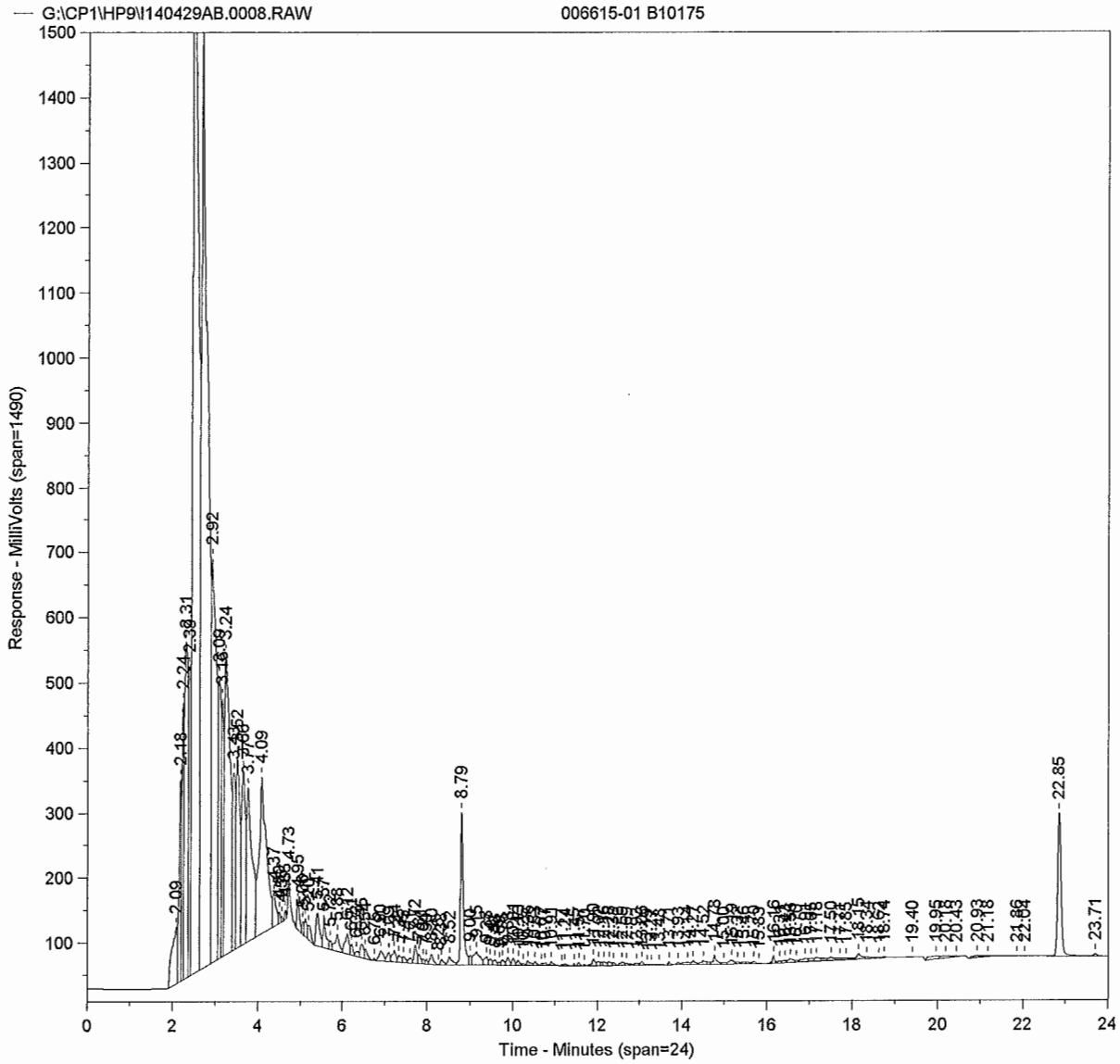
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.89	CL4XYL	716801	9190794	0.078	78.0	31.196		
13.02	HPCLE	4086	10323798	0.000	0.4	0.158		UNDER
19.66	CL10BP	1184732	11981994	0.099	98.9	39.550		

* Linear regression

Checked By: TRC Date: 4/30/14


G:\CP1\HP9\I140429AB.0008.RAW
006615-01 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
8.79
22.85
23.71
4.09
2.92
2.09
2.18
2.24
2.31
3.24
4.73
19.40

Sample Name = **006615-01 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0008.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 4:02:17 PM
Method Version = 201
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	700226	0.999	BV	0.15
2	2.18		0.00	0.000	1175254	1.676	VV	0.05
3	2.24		0.00	0.000	1131808	1.614	VV	0.03
4	2.31		0.00	0.000	3236901	4.616	VV	0.08
5	2.39		0.00	0.000	1402964	2.001	VV	0.04
6	2.46		0.00	0.000	17042332	24.304	VV	0.09
7	2.67		0.00	0.000	15232095	21.722	VV	0.08
8	2.92		0.00	0.000	5219304	7.443	VV	0.09
9	3.09		0.00	0.000	1915137	2.731	VV	0.05
10	3.16		0.00	0.000	1356515	1.935	VV	0.04
11	3.24		0.00	0.000	4115937	5.870	VV	0.10
12	3.43		0.00	0.000	1458544	2.080	VV	0.06
13	3.52		0.00	0.000	1760556	2.511	VV	0.06
14	3.66		0.00	0.000	1695659	2.418	VV	0.07
15	3.77		0.00	0.000	2151442	3.068	VV	0.10
16	4.09		0.00	0.000	2908977	4.148	VV	0.13
17	4.37		0.00	0.000	308313	0.440	VV	0.08
18	4.50		0.00	0.000	54232	0.077	VV	0.04
19	4.56		0.00	0.000	25010	0.036	VB	0.05
20	4.65		0.00	0.000	32756	0.047	BB	0.04
21	4.73		0.00	0.000	76644	0.109	BB	0.04
22	4.95		0.00	0.000	184386	0.263	BV	0.06
23	5.06		0.00	0.000	63286	0.090	VV	0.05
24	5.12		0.00	0.000	108183	0.154	VV	0.04
25	5.20		0.00	0.000	128607	0.183	VB	0.09
26	5.41		0.00	0.000	313226	0.447	BV	0.09
27	5.57		0.00	0.000	214534	0.306	VV	0.06
28	5.72		0.00	0.000	42869	0.061	VV	0.04
29	5.88		0.00	0.000	182691	0.261	VV	0.08
30	6.12		0.00	0.000	201346	0.287	VV	0.09
31	6.21		0.00	0.000	63988	0.091	VV	0.06
32	6.33		0.00	0.000	39887	0.057	VV	0.07
33	6.45		0.00	0.000	116890	0.167	VV	0.08
34	6.54		0.00	0.000	68911	0.098	VB	0.08
35	6.75		0.00	0.000	8442	0.012	BV	0.04
36	6.90		0.00	0.000	107544	0.153	VV	0.10
37	7.09		0.00	0.000	83574	0.119	VV	0.08
38	7.24		0.00	0.000	101618	0.145	VV	0.10
39	7.35		0.00	0.000	56781	0.081	VV	0.09
40	7.45		0.00	0.000	49759	0.071	VV	0.08
41	7.61		0.00	0.000	41205	0.059	VV	0.07
42	7.72		0.00	0.000	120419	0.172	VV	0.06
43	7.81		0.00	0.000	63512	0.091	VV	0.06
44	7.91		0.00	0.000	25800	0.037	VV	0.05
45	7.99		0.00	0.000	24752	0.035	VV	0.05
46	8.10		0.00	0.000	85032	0.121	VB	0.09
47	8.26		0.00	0.000	1381	0.002	BV	0.03
48	8.33		0.00	0.000	41637	0.059	VV	0.07
49	8.52		0.00	0.000	87069	0.124	VV	0.08
50	8.79	CL4XYL	0.07	40.538	1003921	1.432	VV	0.05
51	9.00		0.00	0.000	55222	0.079	VV	0.04
52	9.15		0.00	0.000	225282	0.321	VV	0.15

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.38		0.00	0.000	81363	0.116	VV	0.07
54	9.47		0.00	0.000	45891	0.065	VV	0.05
55	9.58		0.00	0.000	42294	0.060	VV	0.08
56	9.69		0.00	0.000	17056	0.024	VV	0.05
57	9.76		0.00	0.000	41779	0.060	VV	0.06
58	9.88		0.00	0.000	55776	0.080	VV	0.06
59	10.01		0.00	0.000	46511	0.066	VV	0.06
60	10.13		0.00	0.000	38760	0.055	VV	0.08
61	10.25		0.00	0.000	9952	0.014	VV	0.05
62	10.36	ABHC	0.00	1.358	39692	0.057	VV	0.10
63	10.53		0.00	0.000	25533	0.036	VV	0.07
64	10.67		0.00	0.000	8390	0.012	VV	0.04
65	10.77		0.00	0.000	26094	0.037	VV	0.09
66	10.91		0.00	0.000	27087	0.039	VB	0.09
67	11.17		0.00	0.000	4648	0.007	BV	0.05
68	11.24	LINDANE	0.00	0.567	13598	0.019	VB	0.08
69	11.45	BBHC	0.00	0.443	6011	0.009	BV	0.04
70	11.57		0.00	0.000	19485	0.028	VB	0.06
71	11.70		0.00	0.000	5997	0.009	BV	0.06
72	11.90		0.00	0.000	56756	0.081	VV	0.09
73	12.02		0.00	0.000	31737	0.045	VV	0.05
74	12.16		0.00	0.000	33864	0.048	VV	0.04
75	12.28		0.00	0.000	30840	0.044	VV	0.05
76	12.38		0.00	0.000	19482	0.028	VV	0.07
77	12.59		0.00	0.000	38974	0.056	VV	0.14
78	12.69		0.00	0.000	16809	0.024	VV	0.06
79	12.93	ALDRN	0.00	0.740	21555	0.031	VV	0.10
80	13.06		0.00	0.000	26427	0.038	VV	0.07
81	13.19		0.00	0.000	3236	0.005	VV	0.05
82	13.27		0.00	0.000	6195	0.009	VV	0.10
83	13.48		0.00	0.000	11000	0.016	VV	0.16
84	13.71		0.00	0.000	13822	0.020	VV	0.05
85	13.93		0.00	0.000	18788	0.027	VV	0.08
86	14.14		0.00	0.000	43521	0.062	VV	0.20
87	14.27		0.00	0.000	38677	0.055	VV	0.06
88	14.52		0.00	0.000	49348	0.070	VV	0.11
89	14.78		0.00	0.000	75434	0.108	VV	0.05
90	15.00		0.00	0.000	21378	0.030	VV	0.11
91	15.19		0.00	0.000	55675	0.079	VV	0.09
92	15.32		0.00	0.000	19023	0.027	VV	0.07
93	15.46		0.00	0.000	21714	0.031	VV	0.08
94	15.70		0.00	0.000	25658	0.037	VV	0.14
95	15.83		0.00	0.000	7627	0.011	VB	0.08
96	16.16		0.00	0.000	44334	0.063	BV	0.05
97	16.31		0.00	0.000	17057	0.024	VV	0.05
98	16.43		0.00	0.000	24387	0.035	VV	0.09
99	16.56		0.00	0.000	51381	0.073	VV	0.12
100	16.70		0.00	0.000	13918	0.020	VV	0.05
101	16.91	PPDDT *	0.01	3.684	56685	0.081	VV	0.17
102	17.05		0.00	0.000	37123	0.053	VV	0.06
103	17.18		0.00	0.000	45457	0.065	VV	0.09
104	17.50		0.00	0.000	44795	0.064	VV	0.08
105	17.71		0.00	0.000	26250	0.037	VV	0.08
106	17.85		0.00	0.000	23014	0.033	VV	0.10
107	18.15		0.00	0.000	63232	0.090	VV	0.09
108	18.34		0.00	0.000	18054	0.026	VV	0.07
109	18.62		0.00	0.000	12541	0.018	VV	0.15
110	18.74		0.00	0.000	8558	0.012	VB	0.05
111	19.40		0.00	0.000	3225	0.005	BB	0.13
112	19.95		0.00	0.000	82109	0.117	BV	0.31
113	20.18		0.00	0.000	44241	0.063	VV	0.10
114	20.43		0.00	0.000	14210	0.020	VB	0.13
115	20.93		0.00	0.000	37857	0.054	BV	0.22
116	21.18		0.00	0.000	26643	0.038	VB	0.26

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
117	21.86		0.00	0.000	2519	0.004	BV	0.08
118	22.04		0.00	0.000	2584	0.004	VB	0.09
119	22.85	CL10BP	0.10	52.670	1246293	1.777	BV	0.08
120	23.71		0.00	0.000	19543	0.028	VB	0.09

Total Area = 7.01218E+07 Total Height = 1.01818E+07 Total Amount = 0.1838467

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-01 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0008.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 4:02:17 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:01:29 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.79	CL4XYL	1003921	13470371	0.075	74.5	29.811		
10.36	ABHC	39692	15896177	0.002	2.5	0.999		UNDER
11.24	LINDANE	13598	13048558	0.001	1.0	0.417		UNDER
11.45	BBHC	6011	7372642	0.001	0.8	0.326		UNDER
12.93	ALDRN	21555	15852767	0.001	1.4	0.544		UNDER
16.91	PPDDT *	56685	6988384	0.007	6.8	2.709		UNDER
22.85	CL10BP	1246293	12870687	0.097	96.8	38.733		

* Linear regression

Checked By: TRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

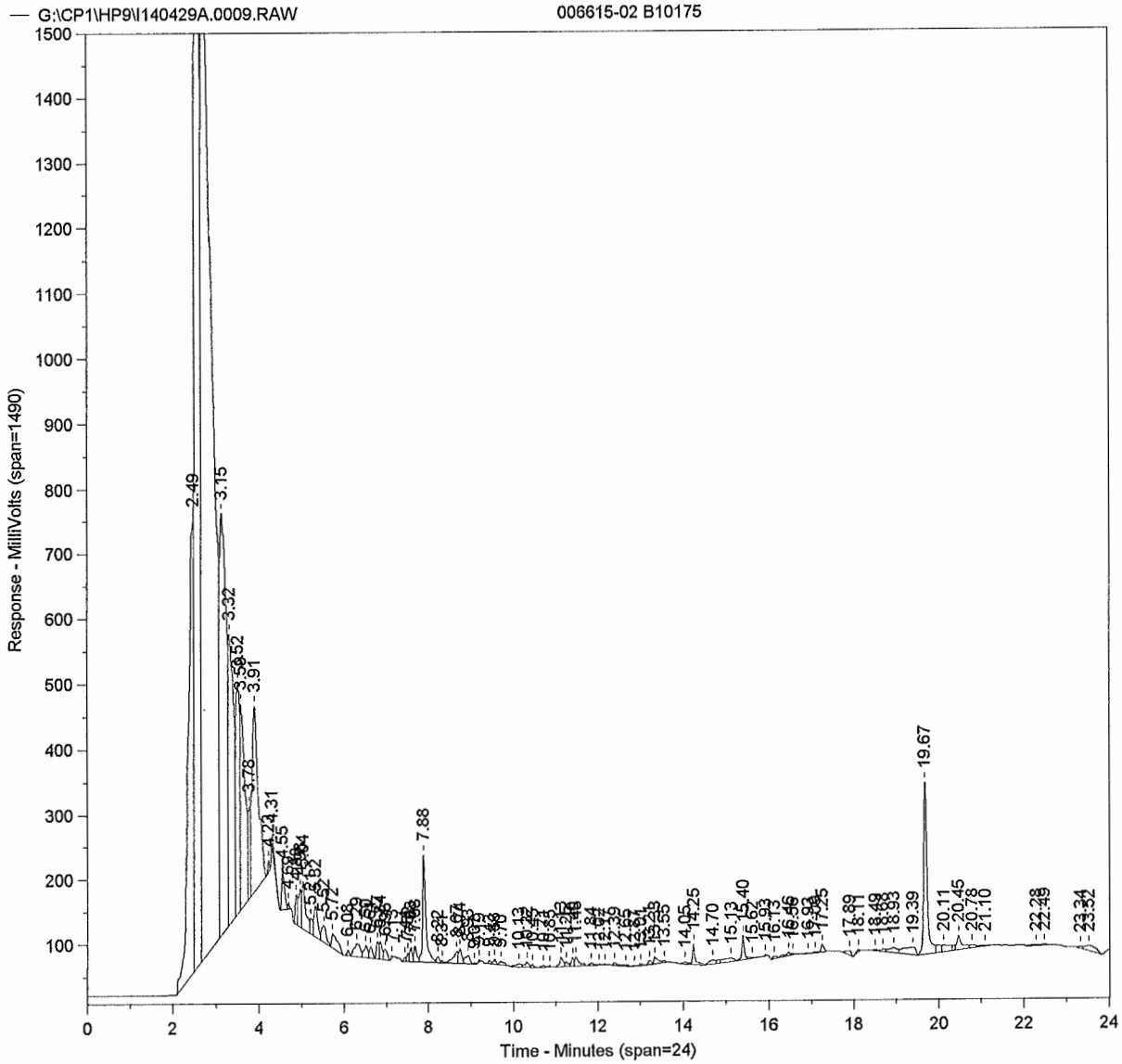
Field ID:	MAK113C	ARDL Lab No.:	006615-02
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1120	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	98%
Decachlorobiphenyl	25-125	122%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-02, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0009.RAW
006615-02 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.49
3.15
3.32
3.52
3.91
3.78
4.31
4.55
7.88
19.67
14.70
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15.40
15.62
17.89
18.49
18.93
19.39
20.11
20.45
20.78
21.10
22.28
23.34
23.52

Primary

Sample Name = **006615-02 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0009.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 4:29:36 PM
Method Version = 211
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.49		0.00	0.000	5672422	7.358	BV	0.14
2	2.58		0.00	0.000	16879096	21.895	VV	0.15
3	2.72		0.00	0.000	27548938	35.736	VV	0.17
4	3.15		0.00	0.000	6666555	8.648	VV	0.13
5	3.32		0.00	0.000	3857151	5.003	VV	0.11
6	3.52		0.00	0.000	2186812	2.837	VV	0.07
7	3.59		0.00	0.000	2485416	3.224	VV	0.09
8	3.78		0.00	0.000	444618	0.577	VV	0.03
9	3.91		0.00	0.000	3055172	3.963	VB	0.14
10	4.23		0.00	0.000	43159	0.056	BB	0.05
11	4.31		0.00	0.000	60452	0.078	BB	0.07
12	4.55		0.00	0.000	279742	0.363	BV	0.08
13	4.69		0.00	0.000	26308	0.034	VB	0.05
14	4.88		0.00	0.000	168982	0.219	BV	0.06
15	4.98		0.00	0.000	272696	0.354	VV	0.04
16	5.04		0.00	0.000	427835	0.555	VV	0.07
17	5.21		0.00	0.000	117507	0.152	VV	0.04
18	5.32		0.00	0.000	292163	0.379	VV	0.11
19	5.52		0.00	0.000	195336	0.253	VV	0.14
20	5.72		0.00	0.000	223946	0.290	VB	0.20
21	6.08		0.00	0.000	31549	0.041	BV	0.06
22	6.29		0.00	0.000	201518	0.261	VV	0.17
23	6.50		0.00	0.000	111919	0.145	VV	0.06
24	6.61		0.00	0.000	89849	0.117	VV	0.10
25	6.77		0.00	0.000	101916	0.132	VV	0.06
26	6.84		0.00	0.000	123638	0.160	VV	0.06
27	6.96		0.00	0.000	97547	0.127	VB	0.11
28	7.13		0.00	0.000	11881	0.015	BB	0.08
29	7.44		0.00	0.000	21597	0.028	BV	0.05
30	7.52		0.00	0.000	41679	0.054	VV	0.04
31	7.58		0.00	0.000	84972	0.110	VV	0.05
32	7.68		0.00	0.000	113340	0.147	VV	0.05
33	7.88	CL4XYL	0.10	44.263	899623	1.167	VV	0.07
34	8.22		0.00	0.000	41579	0.054	VV	0.06
35	8.31		0.00	0.000	10487	0.014	VV	0.06
36	8.67		0.00	0.000	145560	0.189	VV	0.11
37	8.74		0.00	0.000	108579	0.141	VV	0.07
38	8.93		0.00	0.000	100021	0.130	VB	0.16
39	9.07		0.00	0.000	4945	0.006	BB	0.06
40	9.19		0.00	0.000	7699	0.010	BB	0.05
41	9.43		0.00	0.000	21429	0.028	BV	0.07
42	9.56		0.00	0.000	35319	0.046	VV	0.07
43	9.70		0.00	0.000	40909	0.053	VB	0.14
44	10.13		0.00	0.000	46047	0.060	BV	0.16
45	10.32		0.00	0.000	53972	0.070	VV	0.08
46	10.45		0.00	0.000	14699	0.019	VB	0.08
47	10.71		0.00	0.000	19795	0.026	BV	0.15
48	10.85		0.00	0.000	5263	0.007	VB	0.05
49	11.13		0.00	0.000	85180	0.110	BV	0.10
50	11.25		0.00	0.000	37295	0.048	VV	0.06
51	11.40		0.00	0.000	52785	0.068	VV	0.06
52	11.48		0.00	0.000	80305	0.104	VV	0.08

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	11.84		0.00	0.000	29092	0.038	VV	0.12
54	12.02		0.00	0.000	8864	0.011	VV	0.08
55	12.17		0.00	0.000	4405	0.006	VB	0.05
56	12.39		0.00	0.000	28093	0.036	BV	0.08
57	12.65		0.00	0.000	10011	0.013	VB	0.13
58	12.87		0.00	0.000	3110	0.004	BV	0.12
59	13.01	HPCLE	0.00	0.480	10953	0.014	VB	0.08
60	13.21		0.00	0.000	29804	0.039	BV	0.09
61	13.33		0.00	0.000	75056	0.097	VV	0.11
62	13.55		0.00	0.000	16724	0.022	VB	0.07
63	14.05		0.00	0.000	20297	0.026	BV	0.08
64	14.25		0.00	0.000	131828	0.171	VB	0.05
65	14.70		0.00	0.000	71697	0.093	BV	0.19
66	15.13		0.00	0.000	109978	0.143	VB	0.28
67	15.40		0.00	0.000	134390	0.174	BV	0.05
68	15.62		0.00	0.000	7911	0.010	VB	0.05
69	15.93		0.00	0.000	4352	0.006	BB	0.06
70	16.13		0.00	0.000	25090	0.033	BV	0.15
71	16.46		0.00	0.000	44728	0.058	VV	0.15
72	16.56		0.00	0.000	9210	0.012	VB	0.06
73	16.93		0.00	0.000	2714	0.004	BB	0.12
74	17.09		0.00	0.000	8099	0.011	BV	0.14
75	17.25		0.00	0.000	49093	0.064	VB	0.07
76	17.89		0.00	0.000	55507	0.072	BB	0.23
77	18.11		0.00	0.000	21351	0.028	BB	0.11
78	18.49		0.00	0.000	13534	0.018	BV	0.18
79	18.68		0.00	0.000	25381	0.033	VV	0.10
80	18.93		0.00	0.000	107117	0.139	VV	0.10
81	19.39		0.00	0.000	217559	0.282	VB	0.39
82	19.67	CL10BP	0.12	55.257	1464134	1.899	BV	0.07
83	20.11		0.00	0.000	129842	0.168	VV	0.10
84	20.45		0.00	0.000	198418	0.257	VV	0.07
85	20.78		0.00	0.000	48821	0.063	VV	0.14
86	21.10		0.00	0.000	31072	0.040	VB	0.31
87	22.28		0.00	0.000	17621	0.023	BV	0.21
88	22.49		0.00	0.000	17425	0.023	VB	0.10
89	23.34		0.00	0.000	20358	0.026	BV	0.11
90	23.52		0.00	0.000	139875	0.181	VB	0.33

Total Area = 7.709072E+07 Total Height = 8035546 Total Amount = 0.2211386

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-02 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0009.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 4:29:36 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

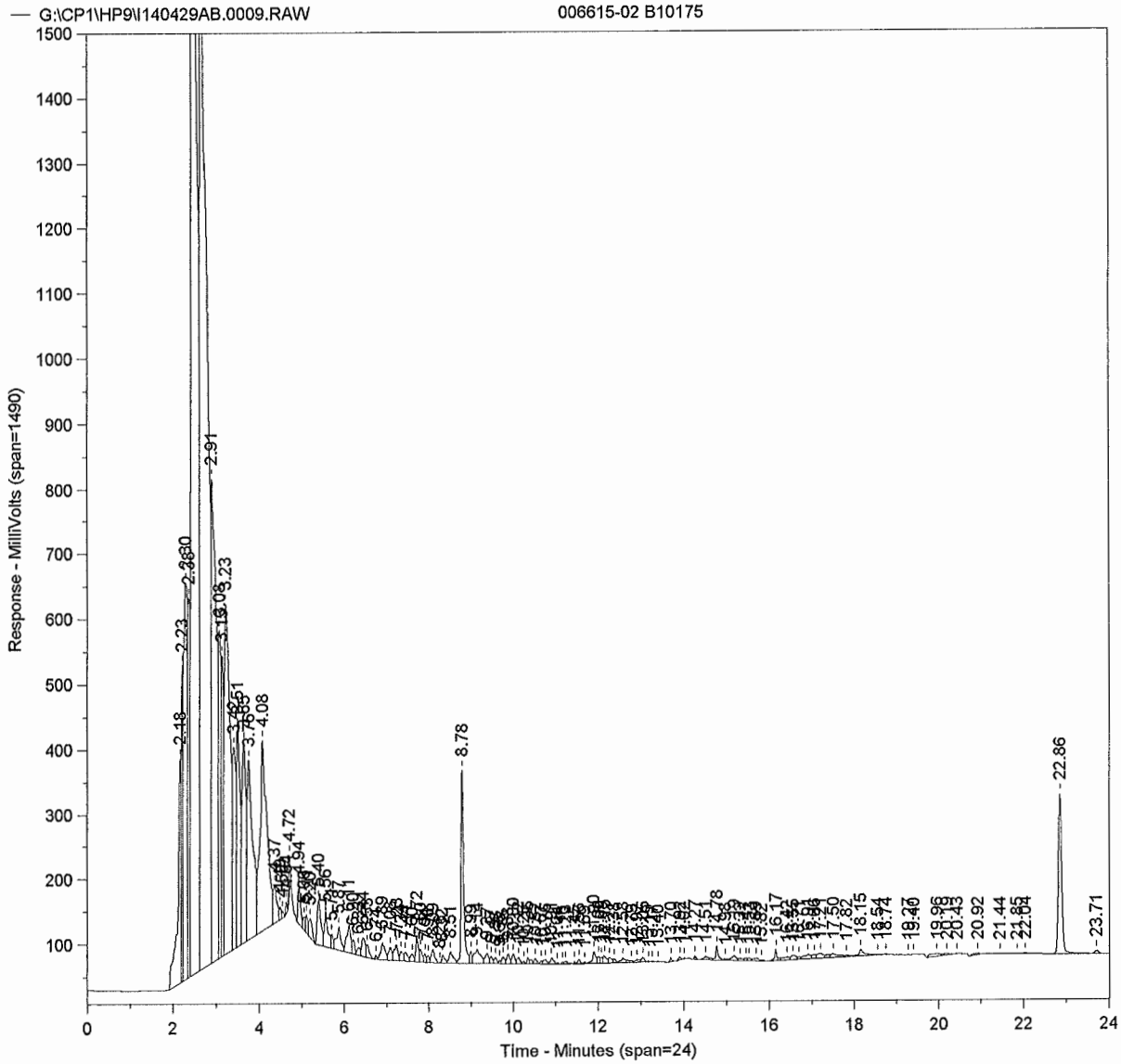
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.88	CL4XYL	899623	9190794	0.098	97.9	39.153		
13.01	HPCLE	10953	10323798	0.001	1.1	0.424		UNDER
19.67	CL10BP	1464134	11981994	0.122	122.2	48.878		

* Linear regression

Checked By: BRC Date: 4/30/14


G:\CP1\HP9\I140429AB.0009.RAW
006615-02 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
8.78
22.86
23.71

Sample Name = **006615-02 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0009.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 4:29:36 PM
Method Version = 201
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.18		0.00	0.000	1774848	2.123	BV	0.05
2	2.23		0.00	0.000	1223011	1.463	VV	0.03
3	2.30		0.00	0.000	3856454	4.614	VV	0.08
4	2.38		0.00	0.000	1839001	2.200	VV	0.04
5	2.46		0.00	0.000	20829646	24.921	VV	0.11
6	2.66		0.00	0.000	18602470	22.256	VV	0.10
7	2.91		0.00	0.000	6168614	7.380	VV	0.09
8	3.08		0.00	0.000	2123934	2.541	VV	0.05
9	3.15		0.00	0.000	1654045	1.979	VV	0.04
10	3.23		0.00	0.000	4737067	5.667	VV	0.10
11	3.42		0.00	0.000	1655089	1.980	VV	0.06
12	3.51		0.00	0.000	2005446	2.399	VV	0.07
13	3.65		0.00	0.000	1990410	2.381	VV	0.07
14	3.76		0.00	0.000	2450834	2.932	VV	0.10
15	4.08		0.00	0.000	3438167	4.113	VV	0.13
16	4.37		0.00	0.000	348046	0.416	VV	0.08
17	4.49		0.00	0.000	61381	0.073	VV	0.04
18	4.55		0.00	0.000	29742	0.036	VB	0.05
19	4.64		0.00	0.000	41195	0.049	BB	0.05
20	4.72		0.00	0.000	128866	0.154	BB	0.05
21	4.94		0.00	0.000	242948	0.291	BV	0.07
22	5.06		0.00	0.000	74137	0.089	VV	0.05
23	5.11		0.00	0.000	98249	0.118	VV	0.04
24	5.20		0.00	0.000	163188	0.195	VB	0.10
25	5.40		0.00	0.000	417814	0.500	BV	0.09
26	5.56		0.00	0.000	288127	0.345	VV	0.06
27	5.71		0.00	0.000	68023	0.081	VV	0.04
28	5.87		0.00	0.000	253221	0.303	VV	0.08
29	6.11		0.00	0.000	271892	0.325	VV	0.10
30	6.20		0.00	0.000	84881	0.102	VV	0.06
31	6.33		0.00	0.000	59278	0.071	VV	0.07
32	6.44		0.00	0.000	158023	0.189	VV	0.08
33	6.53		0.00	0.000	91066	0.109	VB	0.08
34	6.74		0.00	0.000	16236	0.019	BV	0.05
35	6.89		0.00	0.000	173173	0.207	VV	0.10
36	7.08		0.00	0.000	117377	0.140	VV	0.08
37	7.23		0.00	0.000	145807	0.174	VV	0.10
38	7.34		0.00	0.000	77103	0.092	VV	0.09
39	7.44		0.00	0.000	72543	0.087	VV	0.08
40	7.60		0.00	0.000	60480	0.072	VV	0.07
41	7.72		0.00	0.000	165120	0.198	VV	0.06
42	7.80		0.00	0.000	83693	0.100	VV	0.06
43	7.91		0.00	0.000	42796	0.051	VV	0.04
44	7.98		0.00	0.000	38249	0.046	VV	0.06
45	8.09		0.00	0.000	113020	0.135	VB	0.09
46	8.26		0.00	0.000	2670	0.003	BV	0.04
47	8.32		0.00	0.000	56866	0.068	VV	0.07
48	8.51		0.00	0.000	122599	0.147	VV	0.09
49	8.78	CL4XYL	0.09	41.461	1203624	1.440	VV	0.05
50	8.99		0.00	0.000	64642	0.077	VV	0.04
51	9.14		0.00	0.000	214611	0.257	VV	0.14
52	9.37		0.00	0.000	91052	0.109	VV	0.06

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.47		0.00	0.000	46378	0.055	VV	0.05
54	9.58		0.00	0.000	43480	0.052	VV	0.09
55	9.68		0.00	0.000	13678	0.016	VV	0.04
56	9.75		0.00	0.000	50748	0.061	VV	0.07
57	9.88		0.00	0.000	67321	0.081	VV	0.05
58	10.00		0.00	0.000	69974	0.084	VV	0.06
59	10.12		0.00	0.000	47958	0.057	VV	0.09
60	10.25		0.00	0.000	10439	0.012	VV	0.05
61	10.35	ABHC	0.00	0.853	29216	0.035	VV	0.06
62	10.52		0.00	0.000	36364	0.044	VV	0.07
63	10.67		0.00	0.000	12442	0.015	VV	0.05
64	10.76		0.00	0.000	32143	0.038	VV	0.09
65	10.91		0.00	0.000	43006	0.051	VV	0.08
66	11.04		0.00	0.000	2913	0.003	VB	0.04
67	11.16		0.00	0.000	6570	0.008	BV	0.05
68	11.23	LINDANE	0.00	0.629	17677	0.021	VB	0.08
69	11.45	BBHC	0.00	0.474	7530	0.009	BV	0.04
70	11.56		0.00	0.000	26203	0.031	VV	0.06
71	11.69		0.00	0.000	8704	0.010	VV	0.06
72	11.90		0.00	0.000	97783	0.117	VV	0.08
73	12.02		0.00	0.000	45748	0.055	VV	0.05
74	12.09		0.00	0.000	28957	0.035	VV	0.04
75	12.15	DBHC	0.00	2.157	59119	0.071	VV	0.05
76	12.27		0.00	0.000	43372	0.052	VV	0.05
77	12.38		0.00	0.000	27280	0.033	VV	0.07
78	12.58		0.00	0.000	47775	0.057	VV	0.12
79	12.79		0.00	0.000	13328	0.016	VV	0.06
80	12.92	ALDRN	0.00	0.829	28317	0.034	VV	0.11
81	13.05		0.00	0.000	35997	0.043	VV	0.07
82	13.19		0.00	0.000	2958	0.004	VB	0.05
83	13.27		0.00	0.000	4568	0.005	BB	0.06
84	13.40		0.00	0.000	1242	0.001	BB	0.05
85	13.70		0.00	0.000	17730	0.021	BB	0.05
86	13.92		0.00	0.000	15680	0.019	BB	0.09
87	14.02		0.00	0.000	3311	0.004	BB	0.06
88	14.27		0.00	0.000	14835	0.018	BB	0.05
89	14.51		0.00	0.000	31463	0.038	BV	0.11
90	14.78		0.00	0.000	82579	0.099	VV	0.05
91	14.98		0.00	0.000	14530	0.017	VV	0.12
92	15.19		0.00	0.000	53748	0.064	VV	0.09
93	15.32		0.00	0.000	22847	0.027	VV	0.06
94	15.47		0.00	0.000	20024	0.024	VV	0.06
95	15.53		0.00	0.000	18401	0.022	VV	0.06
96	15.69		0.00	0.000	35692	0.043	VV	0.15
97	15.82		0.00	0.000	11715	0.014	VB	0.11
98	16.17		0.00	0.000	60914	0.073	BV	0.04
99	16.42		0.00	0.000	55633	0.067	VV	0.11
100	16.55		0.00	0.000	59860	0.072	VV	0.12
101	16.71		0.00	0.000	19600	0.023	VV	0.04
102	16.91	PPDDT *	0.01	4.574	75961	0.091	VV	0.17
103	17.06		0.00	0.000	42305	0.051	VV	0.07
104	17.21		0.00	0.000	72746	0.087	VV	0.09
105	17.50		0.00	0.000	81240	0.097	VV	0.11
106	17.82		0.00	0.000	17417	0.021	VV	0.08
107	18.15		0.00	0.000	80417	0.096	VV	0.09
108	18.54		0.00	0.000	14639	0.018	VV	0.16
109	18.74		0.00	0.000	7183	0.009	VB	0.05
110	19.27		0.00	0.000	835	0.001	BV	0.10
111	19.40		0.00	0.000	3537	0.004	VB	0.08
112	19.96		0.00	0.000	81642	0.098	BV	0.31
113	20.19		0.00	0.000	31468	0.038	VV	0.08
114	20.43		0.00	0.000	4692	0.006	VB	0.08
115	20.92		0.00	0.000	29353	0.035	BB	0.25
116	21.44		0.00	0.000	2104	0.003	BB	0.11

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
117	21.85		0.00	0.000	3862	0.005	BV	0.09
118	22.04		0.00	0.000	7540	0.009	VB	0.09
119	22.86	CL10BP	0.11	49.023	1359790	1.627	BV	0.08
120	23.71		0.00	0.000	29107	0.035	VB	0.09

Total Area = 8.358437E+07 Total Height = 1.182781E+07 Total Amount = 0.2155099

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-02 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0009.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 4:29:36 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:01:29 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.78	CL4XYL	1203624	13470371	0.089	89.4	35.741		
10.35	ABHC	29216	15896177	0.002	1.8	0.735		UNDER
11.23	LINDANE	17677	13048558	0.001	1.4	0.542		UNDER
11.45	BBHC	7530	7372642	0.001	1.0	0.409		UNDER
12.15	DBHC	59119	12715453	0.005	4.6	1.860		UNDER
12.92	ALDRN	28317	15852767	0.002	1.8	0.715		UNDER
16.91	PPDDT *	75961	6988384	0.010	9.9	3.943		UNDER
22.86	CL10BP	1359790	12870687	0.106	105.7	42.260		

* Linear regression

Checked By: TRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

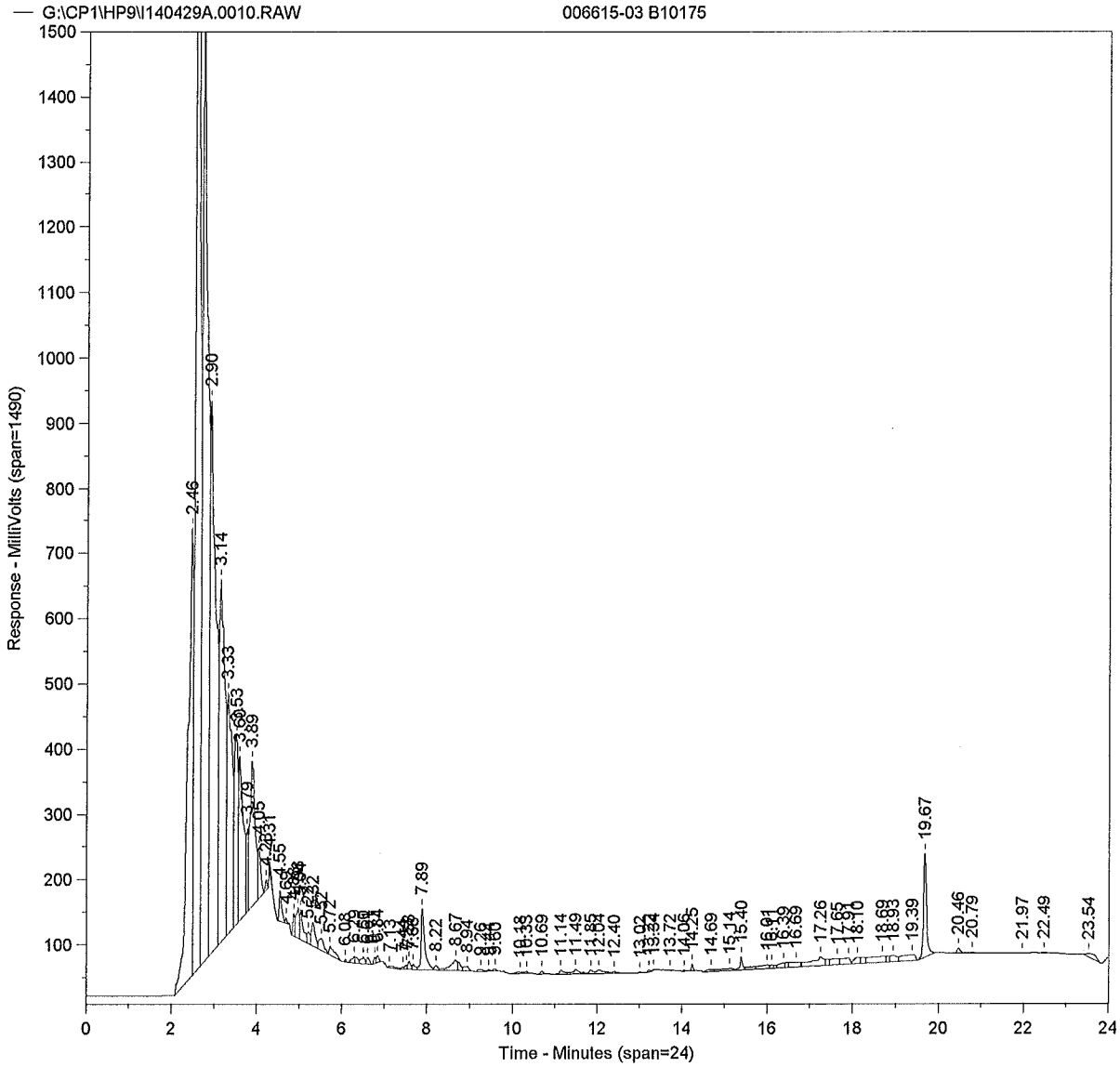
Field ID:	MAK114C	ARDL Lab No.:	006615-03
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1155	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	61%
Decachlorobiphenyl	25-125	67%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-03, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0010.RAW
006615-03 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.46
2.90
3.14
3.33
3.53
3.89
3.79
4.55
7.89
8.22
8.67
8.94
10.69
11.14
11.49
12.40
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14.69
15.14
15.40
17.26
18.69
19.39
19.67
20.46
20.79
21.97
22.49
23.54

Primary

Sample Name = **006615-03 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0010.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 4:56:51 PM
Method Version = 211
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.46		0.00	0.000	5493906	8.951	BV	0.14
2	2.55		0.00	0.000	14100877	22.974	VV	0.09
3	2.72		0.00	0.000	13162291	21.445	VV	0.05
4	2.90		0.00	0.000	8110774	13.215	VV	0.07
5	3.14		0.00	0.000	5269502	8.586	VV	0.12
6	3.33		0.00	0.000	3094412	5.042	VV	0.11
7	3.53		0.00	0.000	1814767	2.957	VV	0.07
8	3.60		0.00	0.000	1946415	3.171	VV	0.07
9	3.79		0.00	0.000	391450	0.638	VV	0.03
10	3.89		0.00	0.000	1906485	3.106	VV	0.08
11	4.05		0.00	0.000	377695	0.615	VV	0.07
12	4.23		0.00	0.000	48062	0.078	VB	0.05
13	4.31		0.00	0.000	25838	0.042	BB	0.04
14	4.55		0.00	0.000	193426	0.315	BV	0.06
15	4.69		0.00	0.000	21381	0.035	VB	0.05
16	4.88		0.00	0.000	109773	0.179	BV	0.05
17	4.98		0.00	0.000	233482	0.380	VV	0.04
18	5.04		0.00	0.000	234806	0.383	VV	0.06
19	5.22		0.00	0.000	83316	0.136	VV	0.05
20	5.32		0.00	0.000	216677	0.353	VV	0.08
21	5.52		0.00	0.000	149013	0.243	VV	0.14
22	5.72		0.00	0.000	121491	0.198	VB	0.19
23	6.08		0.00	0.000	9639	0.016	BB	0.05
24	6.29		0.00	0.000	52413	0.085	BV	0.11
25	6.50		0.00	0.000	64908	0.106	VV	0.06
26	6.61		0.00	0.000	45410	0.074	VB	0.09
27	6.77		0.00	0.000	31232	0.051	BV	0.06
28	6.84		0.00	0.000	41283	0.067	VB	0.07
29	7.13		0.00	0.000	33807	0.055	BB	0.23
30	7.44		0.00	0.000	15187	0.025	BV	0.07
31	7.52		0.00	0.000	20768	0.034	VV	0.04
32	7.58		0.00	0.000	52213	0.085	VV	0.05
33	7.68		0.00	0.000	40741	0.066	VV	0.07
34	7.89	CL4XYL	0.06	42.274	564768	0.920	VV	0.08
35	8.22		0.00	0.000	34400	0.056	VV	0.07
36	8.67		0.00	0.000	159554	0.260	VV	0.14
37	8.94		0.00	0.000	60719	0.099	VB	0.16
38	9.26	ABHC *	0.02	10.837	24491	0.040	BV	0.14
39	9.44		0.00	0.000	9736	0.016	VV	0.07
40	9.60		0.00	0.000	18885	0.031	VB	0.13
41	10.18		0.00	0.000	28996	0.047	BV	0.20
42	10.33		0.00	0.000	13987	0.023	VB	0.10
43	10.69		0.00	0.000	22413	0.037	BB	0.07
44	11.14		0.00	0.000	53696	0.087	BV	0.14
45	11.49		0.00	0.000	62540	0.102	VV	0.09
46	11.85		0.00	0.000	37974	0.062	VV	0.10
47	12.04		0.00	0.000	69333	0.113	VV	0.16
48	12.40		0.00	0.000	16514	0.027	VB	0.09
49	13.02	HPCLE	0.00	0.468	7027	0.011	BB	0.11
50	13.22		0.00	0.000	11835	0.019	BB	0.10
51	13.34		0.00	0.000	3566	0.006	BB	0.05
52	13.72		0.00	0.000	1911	0.003	BB	0.06

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	14.06		0.00	0.000	4411	0.007	BB	0.05
54	14.25		0.00	0.000	27332	0.045	BB	0.04
55	14.69		0.00	0.000	32553	0.053	BV	0.18
56	15.14		0.00	0.000	49893	0.081	VV	0.24
57	15.40		0.00	0.000	83548	0.136	VV	0.05
58	16.01		0.00	0.000	83016	0.135	VV	0.14
59	16.11		0.00	0.000	27831	0.045	VV	0.08
60	16.39		0.00	0.000	69834	0.114	VV	0.14
61	16.69		0.00	0.000	124038	0.202	VV	0.23
62	17.26		0.00	0.000	271621	0.443	VV	0.16
63	17.65		0.00	0.000	132346	0.216	VV	0.13
64	17.91		0.00	0.000	129269	0.211	VV	0.24
65	18.10		0.00	0.000	89332	0.146	VV	0.15
66	18.69		0.00	0.000	252633	0.412	VV	0.30
67	18.93		0.00	0.000	102250	0.167	VV	0.13
68	19.39		0.00	0.000	205969	0.336	VB	0.41
69	19.67	CL10BP	0.07	46.420	808487	1.317	BB	0.07
70	20.46		0.00	0.000	35616	0.058	BV	0.07
71	20.79		0.00	0.000	11474	0.019	VB	0.16
72	21.97		0.00	0.000	4582	0.007	BB	0.17
73	22.49		0.00	0.000	6582	0.011	BB	0.12
74	23.54		0.00	0.000	108079	0.176	BB	0.33

Total Area = 6.137648E+07 Total Height = 7824898 Total Amount = 0.1453582

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-03 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0010.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 4:56:51 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

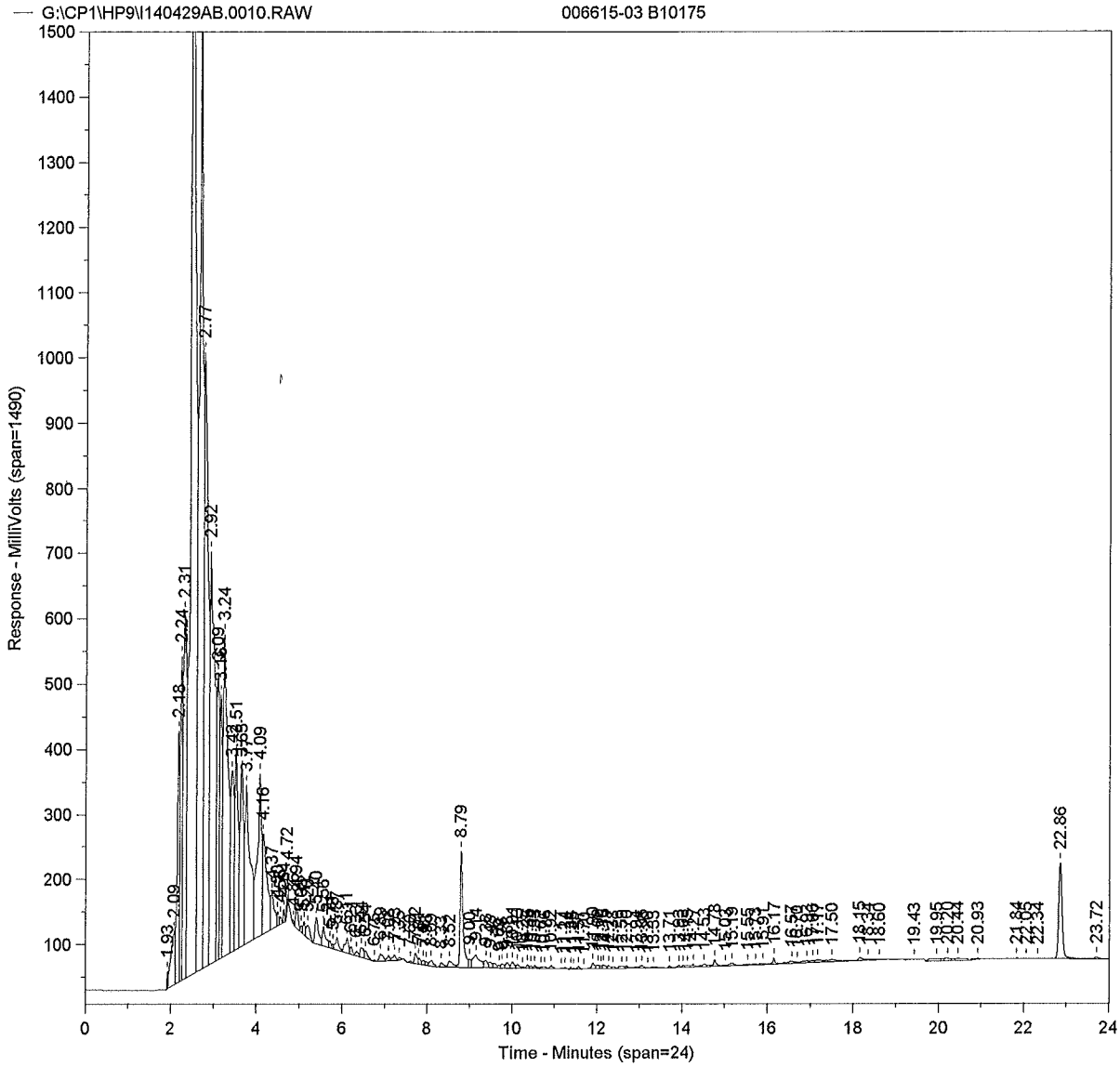
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.89	CL4XYL	564768	9190794	0.061	61.4	24.580		
9.26	ABHC *	24491	10460059	0.016	15.8	6.301		
13.02	HPCLE	7027	10323798	0.001	0.7	0.272		UNDER
19.67	CL10BP	808487	11981994	0.067	67.5	26.990		

* Linear regression

Checked By: TPC Date: 4/30/14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006615-03 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
2
4
6
8
10
12
14
16
18
20
22
24
1.93
2.09
2.18
2.24
2.31
2.77
2.92
3.24
3.51
4.09
4.16
4.72
8.79
19.43
20.93
22.86
23.72

Sample Name = **006615-03 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0010.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 4:56:51 PM
Method Version = 201
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.93		0.00	0.000	40483	0.060	BV	0.03
2	2.09		0.00	0.000	507183	0.756	VV	0.09
3	2.18		0.00	0.000	1396691	2.083	VV	0.05
4	2.24		0.00	0.000	1372537	2.047	VV	0.04
5	2.31		0.00	0.000	3203802	4.778	VV	0.06
6	2.46		0.00	0.000	17025604	25.394	VV	0.05
7	2.67		0.00	0.000	9502557	14.173	VV	0.03
8	2.77		0.00	0.000	6413630	9.566	VV	0.08
9	2.92		0.00	0.000	5130398	7.652	VV	0.08
10	3.09		0.00	0.000	1801166	2.686	VV	0.05
11	3.16		0.00	0.000	1400614	2.089	VV	0.04
12	3.24		0.00	0.000	3863273	5.762	VV	0.08
13	3.42		0.00	0.000	1507020	2.248	VV	0.06
14	3.51		0.00	0.000	1670664	2.492	VV	0.05
15	3.65		0.00	0.000	1583637	2.362	VV	0.06
16	3.77		0.00	0.000	2174172	3.243	VV	0.09
17	4.09		0.00	0.000	1723002	2.570	VV	0.06
18	4.16		0.00	0.000	1076208	1.605	VV	0.07
19	4.37		0.00	0.000	328381	0.490	VV	0.07
20	4.50		0.00	0.000	59003	0.088	VV	0.04
21	4.56		0.00	0.000	33823	0.050	VV	0.05
22	4.64		0.00	0.000	44227	0.066	VB	0.04
23	4.72		0.00	0.000	103851	0.155	BB	0.05
24	4.86		0.00	0.000	9164	0.014	BB	0.04
25	4.94		0.00	0.000	145254	0.217	BV	0.06
26	5.05		0.00	0.000	26945	0.040	VV	0.04
27	5.12		0.00	0.000	65307	0.097	VV	0.03
28	5.20		0.00	0.000	113351	0.169	VB	0.11
29	5.40		0.00	0.000	229018	0.342	BV	0.08
30	5.56		0.00	0.000	160788	0.240	VV	0.05
31	5.71		0.00	0.000	31332	0.047	VV	0.04
32	5.78		0.00	0.000	19167	0.029	VV	0.04
33	5.87		0.00	0.000	95846	0.143	VV	0.08
34	6.11		0.00	0.000	136977	0.204	VV	0.10
35	6.21		0.00	0.000	42993	0.064	VV	0.06
36	6.33		0.00	0.000	33151	0.049	VV	0.06
37	6.44		0.00	0.000	84919	0.127	VV	0.08
38	6.54		0.00	0.000	59696	0.089	VB	0.08
39	6.75		0.00	0.000	4685	0.007	BB	0.04
40	6.89		0.00	0.000	72353	0.108	BV	0.11
41	7.08		0.00	0.000	41447	0.062	VV	0.08
42	7.23		0.00	0.000	45735	0.068	VB	0.10
43	7.35		0.00	0.000	13501	0.020	BB	0.09
44	7.60		0.00	0.000	10931	0.016	BV	0.07
45	7.72		0.00	0.000	68690	0.102	VV	0.07
46	7.81		0.00	0.000	38195	0.057	VV	0.06
47	7.91		0.00	0.000	28801	0.043	VV	0.05
48	7.98		0.00	0.000	22178	0.033	VV	0.05
49	8.09		0.00	0.000	54356	0.081	VB	0.12
50	8.33		0.00	0.000	33566	0.050	BV	0.08
51	8.52		0.00	0.000	69368	0.103	VV	0.10
52	8.79	CL4XYL	0.06	45.558	830991	1.239	VV	0.06

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.00		0.00	0.000	47233	0.070	VV	0.04
54	9.14		0.00	0.000	227400	0.339	VV	0.12
55	9.38		0.00	0.000	60064	0.090	VV	0.08
56	9.48		0.00	0.000	45433	0.068	VV	0.05
57	9.69		0.00	0.000	12910	0.019	VV	0.04
58	9.76		0.00	0.000	31935	0.048	VV	0.06
59	9.88		0.00	0.000	42621	0.064	VV	0.06
60	10.01		0.00	0.000	45438	0.068	VV	0.06
61	10.13		0.00	0.000	27093	0.040	VV	0.09
62	10.25		0.00	0.000	7149	0.011	VV	0.06
63	10.36	ABHC	0.00	0.842	18121	0.027	VV	0.07
64	10.44		0.00	0.000	12811	0.019	VV	0.06
65	10.53		0.00	0.000	17654	0.026	VV	0.07
66	10.67		0.00	0.000	5469	0.008	VV	0.04
67	10.76		0.00	0.000	14736	0.022	VV	0.10
68	10.92		0.00	0.000	20681	0.031	VB	0.09
69	11.17		0.00	0.000	3415	0.005	BV	0.05
70	11.24	LINDANE	0.00	0.578	10215	0.015	VV	0.07
71	11.38		0.00	0.000	7103	0.011	VV	0.04
72	11.45	BBHC	0.00	0.341	3407	0.005	VB	0.04
73	11.57		0.00	0.000	12354	0.018	BV	0.06
74	11.70		0.00	0.000	2653	0.004	VB	0.06
75	11.90		0.00	0.000	49400	0.074	BV	0.10
76	12.02		0.00	0.000	26002	0.039	VV	0.05
77	12.10	DBHC	0.00	0.920	15842	0.024	VV	0.04
78	12.16		0.00	0.000	32200	0.048	VV	0.06
79	12.27		0.00	0.000	22029	0.033	VV	0.05
80	12.38		0.00	0.000	14593	0.022	VV	0.07
81	12.59		0.00	0.000	31259	0.047	VV	0.15
82	12.70		0.00	0.000	15072	0.022	VV	0.07
83	12.94	ALDRN	0.00	0.645	13852	0.021	VV	0.10
84	13.05		0.00	0.000	22360	0.033	VV	0.07
85	13.20		0.00	0.000	3156	0.005	VV	0.05
86	13.33		0.00	0.000	22220	0.033	VB	0.24
87	13.71		0.00	0.000	9238	0.014	BV	0.05
88	13.93		0.00	0.000	14028	0.021	VV	0.09
89	14.03		0.00	0.000	10148	0.015	VV	0.06
90	14.15	HPCLE	0.00	1.075	16929	0.025	VV	0.05
91	14.27		0.00	0.000	18971	0.028	VV	0.06
92	14.53		0.00	0.000	29680	0.044	VV	0.11
93	14.78		0.00	0.000	46107	0.069	VV	0.05
94	15.03		0.00	0.000	8982	0.013	VV	0.11
95	15.19		0.00	0.000	30982	0.046	VV	0.10
96	15.55		0.00	0.000	13892	0.021	VV	0.18
97	15.73		0.00	0.000	13981	0.021	VB	0.10
98	15.91		0.00	0.000	14659	0.022	BV	0.14
99	16.17		0.00	0.000	35347	0.053	VV	0.04
100	16.57		0.00	0.000	41135	0.061	VV	0.16
101	16.70		0.00	0.000	8523	0.013	VV	0.05
102	16.93	PPDDT *	0.00	2.167	32698	0.049	VV	0.18
103	17.06		0.00	0.000	19035	0.028	VV	0.06
104	17.17		0.00	0.000	36012	0.054	VV	0.09
105	17.50		0.00	0.000	40201	0.060	VV	0.12
106	18.15		0.00	0.000	36852	0.055	VV	0.13
107	18.34		0.00	0.000	8995	0.013	VV	0.07
108	18.60		0.00	0.000	5795	0.009	VB	0.19
109	19.43		0.00	0.000	1719	0.003	BB	0.12
110	19.95		0.00	0.000	71505	0.107	BV	0.31
111	20.20		0.00	0.000	37178	0.055	VV	0.10
112	20.44		0.00	0.000	64094	0.096	VB	0.32
113	20.93		0.00	0.000	23585	0.035	BB	0.28
114	21.84		0.00	0.000	4089	0.006	BV	0.10
115	22.05		0.00	0.000	2547	0.004	VB	0.12
116	22.34		0.00	0.000	3696	0.006	BV	0.13

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
117	22.86	CL10BP	0.06	47.872	834326	1.244	VV	0.08
118	23.72		0.00	0.000	17234	0.026	VB	0.09

Total Area = 6.704668E+07 Total Height = 1.16645E+07 Total Amount = 0.1354098

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-03 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0010.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 4:56:51 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:01:29 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.79	CL4XYL	830991	13470371	0.062	61.7	24.676		
10.36	ABHC	18121	15896177	0.001	1.1	0.456		UNDER
11.24	LINDANE	10215	13048558	0.001	0.8	0.313		UNDER
11.45	BBHC	3407	7372642	0.000	0.5	0.185		UNDER
12.10	DBHC	15842	12715453	0.001	1.2	0.498		UNDER
12.94	ALDRN	13852	15852767	0.001	0.9	0.350		UNDER
14.15	HPCLE	16929	11625932	0.001	1.5	0.582		UNDER
16.93	PPDDT *	32698	6988384	0.003	2.9	1.174		UNDER
22.86	CL10BP	834326	12870687	0.065	64.8	25.930		

* Linear regression

Checked By: JRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

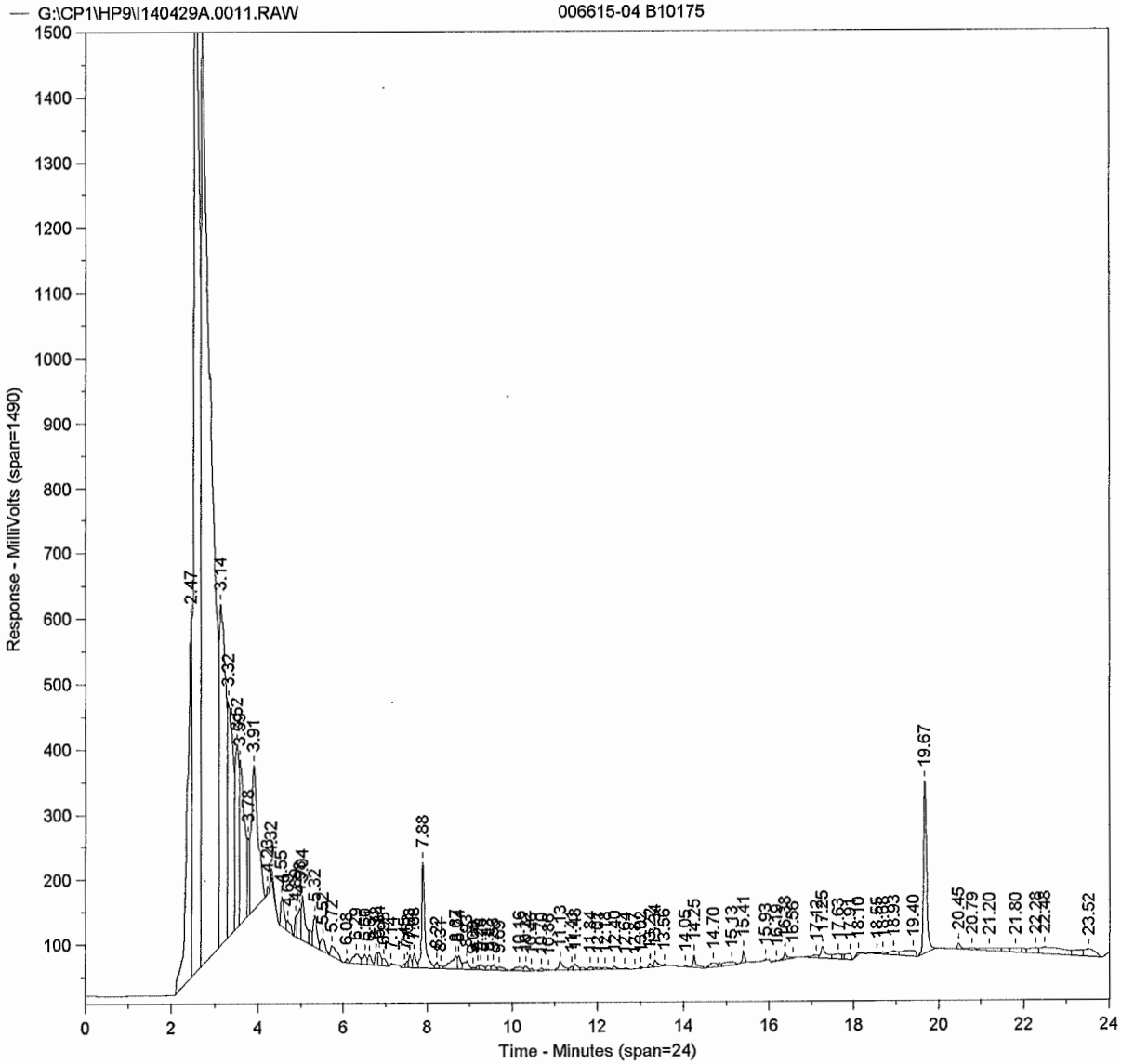
Field ID:	MAK115C	ARDL Lab No.:	006615-04
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1300	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.02 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	ND		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	ND		UG/KG	1
delta-BHC	3.98	3.98	ND		UG/KG	1
Heptachlor	3.98	3.98	ND		UG/KG	1
Aldrin	3.98	3.98	ND		UG/KG	1
Heptachlor Epoxide	3.98	3.98	ND		UG/KG	1
p,p'-DDT	3.98	3.98	ND		UG/KG	1
beta-BHC	3.98	3.98	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	101%
Decachlorobiphenyl	25-125	111%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-04, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0011.RAW
006615-04 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.47
3.14
3.32
3.91
3.78
7.88
19.67
20.45
20.79
21.20
21.80
22.28
23.52

Primary

Sample Name = **006615-04 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0011.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 5:24:25 PM
Method Version = 211
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.47		0.00	0.000	3968411	6.147	BV	0.12
2	2.58		0.00	0.000	14480514	22.430	VV	0.15
3	2.71		0.00	0.000	22449402	34.773	VV	0.17
4	3.14		0.00	0.000	5402687	8.369	VV	0.13
5	3.32		0.00	0.000	3133177	4.853	VV	0.11
6	3.52		0.00	0.000	1750782	2.712	VV	0.07
7	3.59		0.00	0.000	2065578	3.199	VV	0.09
8	3.78		0.00	0.000	355308	0.550	VV	0.03
9	3.91		0.00	0.000	2433003	3.769	VB	0.16
10	4.23		0.00	0.000	30405	0.047	BB	0.05
11	4.32		0.00	0.000	56267	0.087	BB	0.08
12	4.55		0.00	0.000	259766	0.402	BV	0.08
13	4.69		0.00	0.000	111899	0.173	VB	0.12
14	4.89		0.00	0.000	108018	0.167	BV	0.05
15	4.98		0.00	0.000	243044	0.376	VV	0.05
16	5.04		0.00	0.000	424043	0.657	VV	0.08
17	5.32		0.00	0.000	298147	0.462	VV	0.09
18	5.52		0.00	0.000	160377	0.248	VV	0.14
19	5.72		0.00	0.000	171552	0.266	VB	0.21
20	6.08		0.00	0.000	22868	0.035	BV	0.06
21	6.29		0.00	0.000	156840	0.243	VV	0.19
22	6.50		0.00	0.000	97155	0.150	VV	0.07
23	6.61		0.00	0.000	81629	0.126	VV	0.09
24	6.78		0.00	0.000	77241	0.120	VV	0.06
25	6.84		0.00	0.000	100859	0.156	VV	0.07
26	6.95		0.00	0.000	70710	0.110	VB	0.11
27	7.14		0.00	0.000	8533	0.013	BB	0.08
28	7.45		0.00	0.000	20450	0.032	BV	0.06
29	7.52		0.00	0.000	31509	0.049	VV	0.04
30	7.58		0.00	0.000	82031	0.127	VV	0.05
31	7.68		0.00	0.000	107665	0.167	VV	0.05
32	7.88	CL4XYL	0.10	43.782	928281	1.438	VV	0.07
33	8.22		0.00	0.000	47222	0.073	VV	0.06
34	8.31		0.00	0.000	20399	0.032	VV	0.05
35	8.67		0.00	0.000	217415	0.337	VV	0.15
36	8.74		0.00	0.000	103021	0.160	VV	0.07
37	8.93		0.00	0.000	111530	0.173	VV	0.16
38	9.08		0.00	0.000	18183	0.028	VV	0.05
39	9.20		0.00	0.000	24962	0.039	VV	0.05
40	9.26	ABHC *	0.02	7.632	51588	0.080	VV	0.08
41	9.43		0.00	0.000	43418	0.067	VV	0.06
42	9.56		0.00	0.000	50464	0.078	VV	0.07
43	9.69		0.00	0.000	48868	0.076	VB	0.18
44	10.16		0.00	0.000	70684	0.109	BV	0.22
45	10.32		0.00	0.000	39850	0.062	VV	0.10
46	10.46		0.00	0.000	13505	0.021	VB	0.08
47	10.70		0.00	0.000	15728	0.024	BV	0.09
48	10.86		0.00	0.000	3164	0.005	VB	0.05
49	11.13		0.00	0.000	104774	0.162	BV	0.10
50	11.41		0.00	0.000	27016	0.042	VV	0.06
51	11.48		0.00	0.000	61667	0.096	VV	0.09
52	11.84		0.00	0.000	29996	0.046	VV	0.10

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	12.01		0.00	0.000	25562	0.040	VV	0.10
54	12.18		0.00	0.000	23374	0.036	VV	0.06
55	12.40		0.00	0.000	35386	0.055	VV	0.08
56	12.64		0.00	0.000	17021	0.026	VB	0.14
57	12.87		0.00	0.000	3525	0.005	BV	0.11
58	13.02	HPCLE	0.00	0.517	12314	0.019	VB	0.08
59	13.22		0.00	0.000	28464	0.044	BV	0.09
60	13.34		0.00	0.000	69466	0.108	VV	0.09
61	13.56		0.00	0.000	12262	0.019	VB	0.06
62	14.05		0.00	0.000	11243	0.017	BV	0.05
63	14.25		0.00	0.000	91357	0.142	VB	0.05
64	14.70		0.00	0.000	80883	0.125	BV	0.21
65	15.13		0.00	0.000	92783	0.144	VB	0.30
66	15.41		0.00	0.000	71234	0.110	BB	0.06
67	15.93		0.00	0.000	5797	0.009	BB	0.08
68	16.19		0.00	0.000	11381	0.018	BB	0.14
69	16.38		0.00	0.000	62312	0.097	BV	0.07
70	16.56		0.00	0.000	5162	0.008	VB	0.08
71	17.12		0.00	0.000	51261	0.079	BV	0.16
72	17.25		0.00	0.000	160895	0.249	VV	0.07
73	17.63		0.00	0.000	99364	0.154	VV	0.14
74	17.91		0.00	0.000	84956	0.132	VB	0.17
75	18.10		0.00	0.000	22705	0.035	BB	0.12
76	18.55		0.00	0.000	13516	0.021	BV	0.15
77	18.68		0.00	0.000	27521	0.043	VV	0.13
78	18.93		0.00	0.000	77474	0.120	VV	0.09
79	19.40		0.00	0.000	176607	0.274	VB	0.40
80	19.67	CL10BP	0.11	48.069	1328690	2.058	BB	0.07
81	20.45		0.00	0.000	45974	0.071	BV	0.07
82	20.79		0.00	0.000	30228	0.047	VV	0.14
83	21.20		0.00	0.000	119770	0.186	VV	0.49
84	21.80		0.00	0.000	97604	0.151	VV	0.24
85	22.28		0.00	0.000	136882	0.212	VV	0.20
86	22.48		0.00	0.000	420049	0.651	VV	0.48
87	23.52		0.00	0.000	214970	0.333	VB	0.33

Total Area = 6.455961E+07 Total Height = 6646078 Total Amount = 0.2306903

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-04 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0011.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST · DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 5:24:25 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

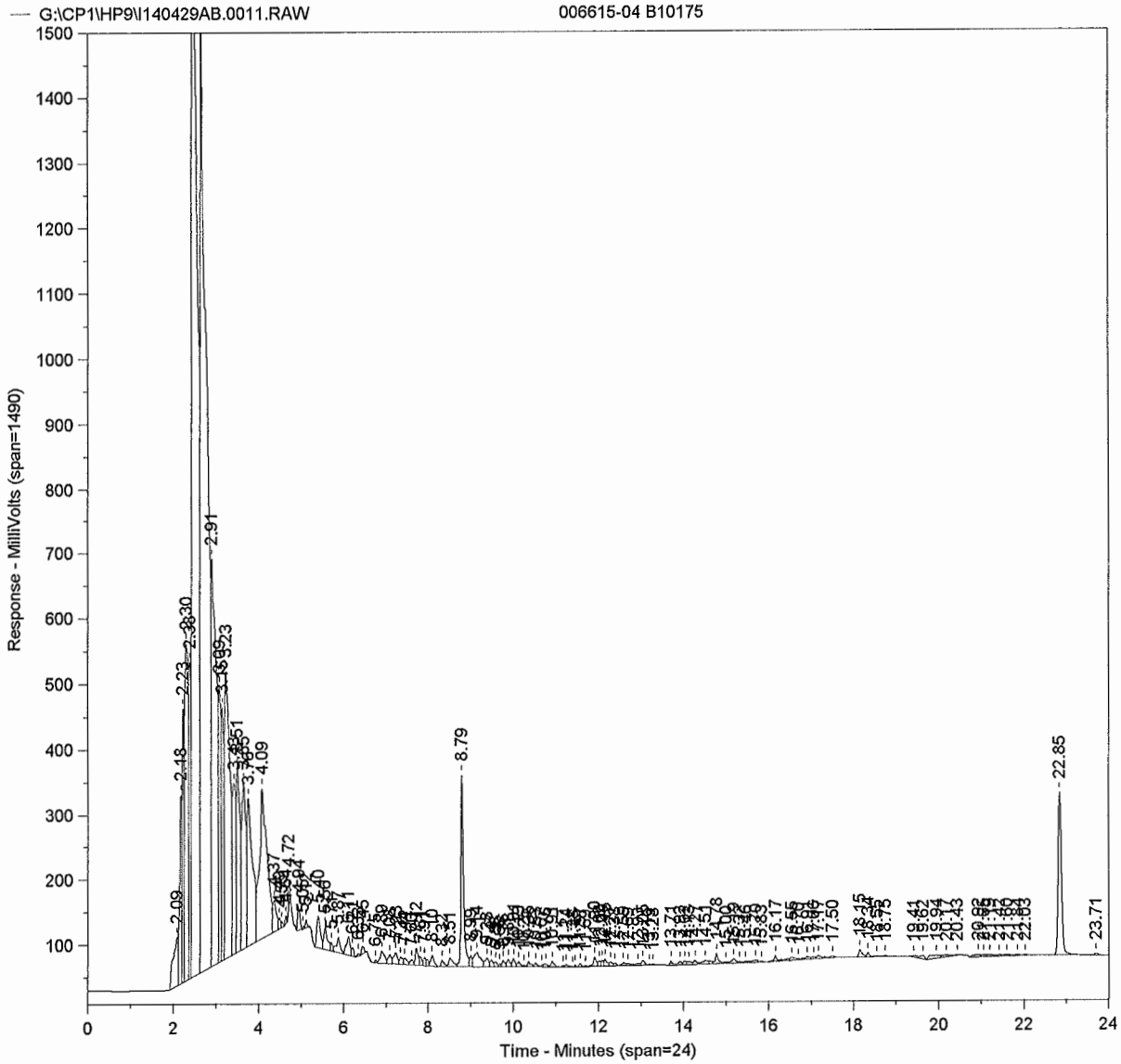
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.88	CL4XYL	928281	9190794	0.101	101.0	40.400		
9.26	ABHC *	51588	10460059	0.018	17.6	7.042		
13.02	HPCLE	12314	10323798	0.001	1.2	0.477		UNDER
19.67	CL10BP	1328690	11981994	0.111	110.9	44.356		

* Linear regression

Checked By: JRC Date: 4/30/14


G:\CP1\HP9\I140429AB.0011.RAW
006615-04 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.09
2.18
2.23
2.30
2.91
3.23
3.51
4.09
4.72
8.79
22.85
23.71

Sample Name = **006615-04 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0011.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 5:24:25 PM
Method Version = 201
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	568171	0.818	BV	0.15
2	2.18		0.00	0.000	1075230	1.548	VV	0.05
3	2.23		0.00	0.000	1111879	1.601	VV	0.03
4	2.30		0.00	0.000	3147179	4.532	VV	0.08
5	2.38		0.00	0.000	1522188	2.192	VV	0.04
6	2.46		0.00	0.000	17117342	24.651	VV	0.11
7	2.66		0.00	0.000	15336415	22.086	VV	0.09
8	2.91		0.00	0.000	5171658	7.448	VV	0.09
9	3.09		0.00	0.000	1779057	2.562	VV	0.05
10	3.15		0.00	0.000	1390813	2.003	VV	0.04
11	3.23		0.00	0.000	3988674	5.744	VV	0.11
12	3.43		0.00	0.000	1368391	1.971	VV	0.06
13	3.51		0.00	0.000	1726507	2.486	VV	0.07
14	3.65		0.00	0.000	1681183	2.421	VV	0.07
15	3.76		0.00	0.000	2085761	3.004	VV	0.10
16	4.09		0.00	0.000	2854568	4.111	VV	0.14
17	4.37		0.00	0.000	286340	0.412	VV	0.08
18	4.49		0.00	0.000	51827	0.075	VV	0.04
19	4.55		0.00	0.000	24229	0.035	VB	0.05
20	4.64		0.00	0.000	30318	0.044	BB	0.05
21	4.72		0.00	0.000	85041	0.122	BB	0.05
22	4.94		0.00	0.000	145427	0.209	BB	0.07
23	5.05		0.00	0.000	10378	0.015	BV	0.04
24	5.12		0.00	0.000	34819	0.050	VB	0.04
25	5.40		0.00	0.000	287834	0.415	BV	0.09
26	5.56		0.00	0.000	205747	0.296	VV	0.06
27	5.71		0.00	0.000	39723	0.057	VV	0.04
28	5.87		0.00	0.000	146225	0.211	VV	0.08
29	6.11		0.00	0.000	173939	0.250	VV	0.09
30	6.21		0.00	0.000	42115	0.061	VB	0.06
31	6.33		0.00	0.000	12358	0.018	BB	0.07
32	6.45		0.00	0.000	47778	0.069	BB	0.08
33	6.75		0.00	0.000	12908	0.019	BV	0.05
34	6.89		0.00	0.000	134431	0.194	VV	0.10
35	7.08		0.00	0.000	87361	0.126	VV	0.08
36	7.23		0.00	0.000	110990	0.160	VV	0.10
37	7.35		0.00	0.000	61267	0.088	VV	0.09
38	7.44		0.00	0.000	55842	0.080	VV	0.08
39	7.60		0.00	0.000	43081	0.062	VV	0.07
40	7.72		0.00	0.000	120797	0.174	VV	0.07
41	7.81		0.00	0.000	60748	0.087	VV	0.06
42	7.91		0.00	0.000	49218	0.071	VV	0.04
43	8.10		0.00	0.000	90070	0.130	VB	0.09
44	8.32		0.00	0.000	46836	0.067	BV	0.08
45	8.51		0.00	0.000	97038	0.140	VV	0.09
46	8.79	CL4XYL	0.09	43.295	1208579	1.740	VV	0.05
47	8.99		0.00	0.000	63811	0.092	VV	0.04
48	9.14		0.00	0.000	237298	0.342	VV	0.13
49	9.38		0.00	0.000	82131	0.118	VV	0.07
50	9.47		0.00	0.000	51310	0.074	VV	0.05
51	9.58		0.00	0.000	36705	0.053	VV	0.08
52	9.68		0.00	0.000	14878	0.021	VV	0.05

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.76		0.00	0.000	45925	0.066	VV	0.06
54	9.88		0.00	0.000	55939	0.081	VV	0.05
55	10.01		0.00	0.000	55845	0.080	VV	0.06
56	10.13		0.00	0.000	40215	0.058	VV	0.08
57	10.25		0.00	0.000	9616	0.014	VV	0.06
58	10.35	ABHC	0.00	1.312	43210	0.062	VV	0.06
59	10.53		0.00	0.000	27796	0.040	VV	0.07
60	10.67		0.00	0.000	9809	0.014	VV	0.05
61	10.76		0.00	0.000	25470	0.037	VV	0.08
62	10.91		0.00	0.000	39135	0.056	VV	0.07
63	11.17		0.00	0.000	6322	0.009	VV	0.05
64	11.24	LINDANE	0.00	0.580	15683	0.023	VV	0.08
65	11.38		0.00	0.000	2792	0.004	VV	0.04
66	11.45	BBHC	0.00	0.341	5210	0.008	VB	0.04
67	11.57		0.00	0.000	19476	0.028	BV	0.06
68	11.69		0.00	0.000	5081	0.007	VV	0.05
69	11.90		0.00	0.000	73492	0.106	VV	0.09
70	12.02		0.00	0.000	34342	0.049	VV	0.04
71	12.09		0.00	0.000	33389	0.048	VV	0.04
72	12.15		0.00	0.000	50981	0.073	VV	0.06
73	12.27		0.00	0.000	32262	0.046	VV	0.05
74	12.38		0.00	0.000	19372	0.028	VV	0.07
75	12.59		0.00	0.000	31515	0.045	VV	0.11
76	12.69		0.00	0.000	13285	0.019	VV	0.06
77	12.93	ALDRN	0.00	0.571	18750	0.027	VV	0.10
78	13.05		0.00	0.000	36854	0.053	VV	0.08
79	13.19		0.00	0.000	3101	0.004	VV	0.05
80	13.28		0.00	0.000	4037	0.006	VB	0.06
81	13.71		0.00	0.000	23111	0.033	BV	0.05
82	13.92		0.00	0.000	28642	0.041	VV	0.09
83	14.02		0.00	0.000	24567	0.035	VV	0.07
84	14.13		0.00	0.000	32811	0.047	VV	0.10
85	14.27		0.00	0.000	35428	0.051	VV	0.06
86	14.51		0.00	0.000	51822	0.075	VV	0.11
87	14.78		0.00	0.000	76683	0.110	VV	0.05
88	15.00		0.00	0.000	16146	0.023	VV	0.12
89	15.19		0.00	0.000	47963	0.069	VV	0.09
90	15.32		0.00	0.000	11751	0.017	VV	0.07
91	15.46		0.00	0.000	11011	0.016	VV	0.06
92	15.70		0.00	0.000	33292	0.048	VV	0.15
93	15.83		0.00	0.000	9204	0.013	VB	0.09
94	16.17		0.00	0.000	41869	0.060	BV	0.05
95	16.55		0.00	0.000	57087	0.082	VV	0.13
96	16.70		0.00	0.000	7148	0.010	VV	0.06
97	16.91	PPDDT *	0.00	1.828	38029	0.055	VV	0.20
98	17.06		0.00	0.000	20024	0.029	VV	0.07
99	17.17		0.00	0.000	29977	0.043	VV	0.08
100	17.50		0.00	0.000	16913	0.024	VB	0.07
101	18.15		0.00	0.000	65199	0.094	BV	0.09
102	18.34		0.00	0.000	26721	0.038	VV	0.05
103	18.55		0.00	0.000	16308	0.023	VV	0.16
104	18.75		0.00	0.000	9382	0.014	VB	0.06
105	19.41		0.00	0.000	22799	0.033	BV	0.15
106	19.62		0.00	0.000	36382	0.052	VB	0.15
107	19.94		0.00	0.000	85943	0.124	BV	0.31
108	20.17		0.00	0.000	35147	0.051	VV	0.11
109	20.43		0.00	0.000	4868	0.007	VB	0.09
110	20.92		0.00	0.000	42478	0.061	BV	0.23
111	21.05		0.00	0.000	17726	0.026	VV	0.07
112	21.19		0.00	0.000	28934	0.042	VV	0.14
113	21.42		0.00	0.000	15793	0.023	VV	0.10
114	21.60		0.00	0.000	18519	0.027	VV	0.16
115	21.84		0.00	0.000	11617	0.017	VV	0.10
116	22.03		0.00	0.000	7412	0.011	VB	0.09

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
117	22.85	CL10BP	0.11	52.073	1388897	2.000	BV	0.08
118	23.71		0.00	0.000	18410	0.027	VB	0.09

Total Area = 6.943934E+07 Total Height = 9943513 Total Amount = 0.2072303

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-04 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0011.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST · DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 5:24:25 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:01:29 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.79	CL4XYL	1208579	13470371	0.090	89.7	35.889		
10.35	ABHC	43210	15896177	0.003	2.7	1.087		UNDER
11.24	LINDANE	15683	13048558	0.001	1.2	0.481		UNDER
11.45	BBHC	5210	7372642	0.001	0.7	0.283		UNDER
12.93	ALDRN	18750	15852767	0.001	1.2	0.473		UNDER
16.91	PPDDT *	38029	6988384	0.004	3.8	1.515		UNDER
22.85	CL10BP	1388897	12870687	0.108	107.9	43.165		

* Linear regression

Checked By: SRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

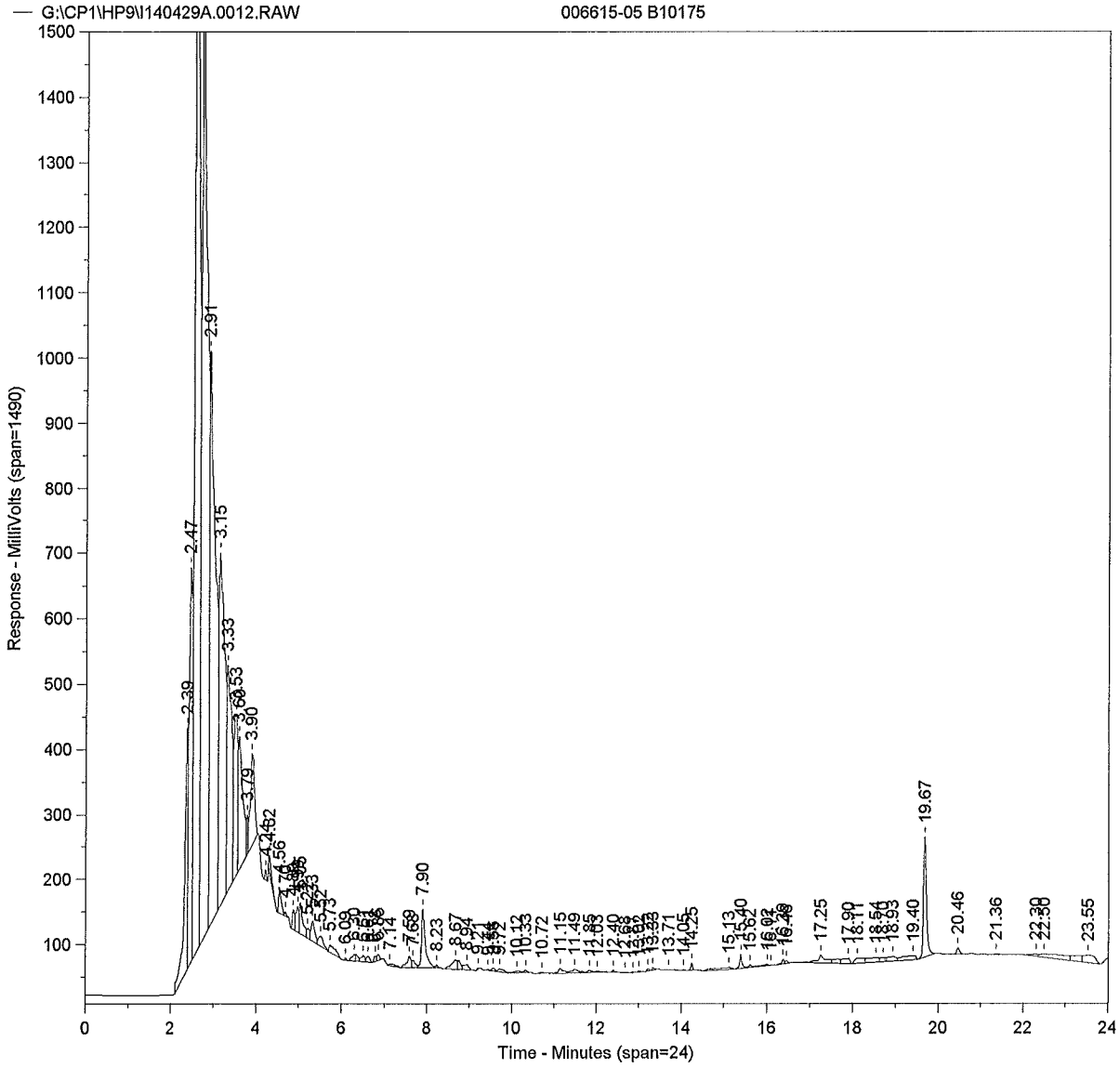
Field ID:	MAK116C	ARDL Lab No.:	006615-05
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1330	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.03 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	ND		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	ND		UG/KG	1
delta-BHC	3.98	3.98	ND		UG/KG	1
Heptachlor	3.98	3.98	ND		UG/KG	1
Aldrin	3.98	3.98	ND		UG/KG	1
Heptachlor Epoxide	3.98	3.98	ND		UG/KG	1
p,p'-DDT	3.98	3.98	ND		UG/KG	1
beta-BHC	3.98	3.98	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	61%
Decachlorobiphenyl	25-125	77%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-05, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0012.RAW
006615-05 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.39
2.47
2.91
3.15
3.33
3.53
3.90
3.79
4.14
4.52
4.56
5.73
6.09
7.14
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7.90
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15.13
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17.90
18.11
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18.93
19.40
19.67
20.46
21.36
22.30
22.38
23.55

Primary

Sample Name = **006615-05 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0012.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 5:51:32 PM
Method Version = 211
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.39		0.00	0.000	1720269	2.931	BV	0.06
2	2.47		0.00	0.000	3356568	5.720	VV	0.07
3	2.56		0.00	0.000	13946779	23.765	VV	0.10
4	2.73		0.00	0.000	13396992	22.829	VV	0.06
5	2.91		0.00	0.000	8610811	14.673	VV	0.08
6	3.15		0.00	0.000	5184042	8.834	VV	0.12
7	3.33		0.00	0.000	2812023	4.792	VV	0.11
8	3.53		0.00	0.000	1549604	2.641	VV	0.07
9	3.60		0.00	0.000	1398998	2.384	VV	0.08
10	3.79		0.00	0.000	182458	0.311	VV	0.03
11	3.90		0.00	0.000	981119	1.672	VB	0.09
12	4.24		0.00	0.000	38045	0.065	BB	0.05
13	4.32		0.00	0.000	92739	0.158	BB	0.07
14	4.56		0.00	0.000	176674	0.301	BV	0.07
15	4.70		0.00	0.000	17754	0.030	VB	0.05
16	4.89		0.00	0.000	108224	0.184	BV	0.06
17	4.99		0.00	0.000	179895	0.307	VV	0.04
18	5.05		0.00	0.000	261698	0.446	VV	0.06
19	5.22		0.00	0.000	72080	0.123	VV	0.06
20	5.33		0.00	0.000	188843	0.322	VV	0.10
21	5.52		0.00	0.000	122192	0.208	VB	0.14
22	5.73		0.00	0.000	120730	0.206	BB	0.22
23	6.09		0.00	0.000	10426	0.018	BB	0.05
24	6.30		0.00	0.000	54389	0.093	BV	0.10
25	6.51		0.00	0.000	60478	0.103	VV	0.06
26	6.61		0.00	0.000	47639	0.081	VB	0.10
27	6.78		0.00	0.000	28902	0.049	BV	0.06
28	6.85		0.00	0.000	36265	0.062	VB	0.07
29	7.14		0.00	0.000	38695	0.066	BB	0.25
30	7.59		0.00	0.000	121760	0.207	BV	0.10
31	7.68		0.00	0.000	56821	0.097	VV	0.07
32	7.90	CL4XYL	0.06	44.090	564825	0.962	VV	0.08
33	8.23		0.00	0.000	15040	0.026	VB	0.07
34	8.67		0.00	0.000	128322	0.219	BV	0.14
35	8.94		0.00	0.000	65966	0.112	VB	0.16
36	9.21		0.00	0.000	4115	0.007	BB	0.05
37	9.44		0.00	0.000	6553	0.011	BV	0.05
38	9.56		0.00	0.000	23060	0.039	VV	0.07
39	9.72		0.00	0.000	39005	0.066	VB	0.19
40	10.12		0.00	0.000	22579	0.038	BV	0.18
41	10.33		0.00	0.000	20420	0.035	VB	0.08
42	10.72		0.00	0.000	9096	0.015	BB	0.10
43	11.15		0.00	0.000	59040	0.101	BV	0.15
44	11.49		0.00	0.000	58046	0.099	VV	0.10
45	11.85		0.00	0.000	21410	0.036	VV	0.10
46	12.03		0.00	0.000	9623	0.016	VB	0.09
47	12.40		0.00	0.000	18593	0.032	BV	0.08
48	12.68		0.00	0.000	6648	0.011	VB	0.13
49	12.87		0.00	0.000	2890	0.005	BV	0.11
50	13.02	HPCLE	0.00	0.519	7474	0.013	VB	0.13
51	13.22		0.00	0.000	13584	0.023	BV	0.09
52	13.33		0.00	0.000	13776	0.023	VB	0.13

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	13.71		0.00	0.000	2125	0.004	BB	0.06
54	14.05		0.00	0.000	3882	0.007	BB	0.05
55	14.25		0.00	0.000	29836	0.051	BB	0.04
56	15.13		0.00	0.000	102998	0.176	BB	0.59
57	15.40		0.00	0.000	85441	0.146	BV	0.05
58	15.62		0.00	0.000	20614	0.035	VV	0.06
59	16.02		0.00	0.000	29190	0.050	VV	0.14
60	16.11		0.00	0.000	4231	0.007	VB	0.07
61	16.39		0.00	0.000	29352	0.050	BV	0.07
62	16.46		0.00	0.000	19959	0.034	VB	0.06
63	17.25		0.00	0.000	169019	0.288	BV	0.11
64	17.90		0.00	0.000	95718	0.163	VB	0.23
65	18.11		0.00	0.000	112485	0.192	BV	0.26
66	18.54		0.00	0.000	131121	0.223	VV	0.22
67	18.70		0.00	0.000	48420	0.083	VV	0.10
68	18.93		0.00	0.000	93433	0.159	VV	0.13
69	19.40		0.00	0.000	149385	0.255	VB	0.38
70	19.67	CL10BP	0.08	55.391	925109	1.576	BB	0.07
71	20.46		0.00	0.000	42241	0.072	BB	0.07
72	21.36		0.00	0.000	3297	0.006	BB	0.17
73	22.30		0.00	0.000	38659	0.066	BV	0.22
74	22.50		0.00	0.000	252078	0.430	VV	0.46
75	23.55		0.00	0.000	212721	0.362	VB	0.33

Total Area = 5.86853E+07 Total Height = 7659125 Total Amount = 0.1393878

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0012.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 5:51:32 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

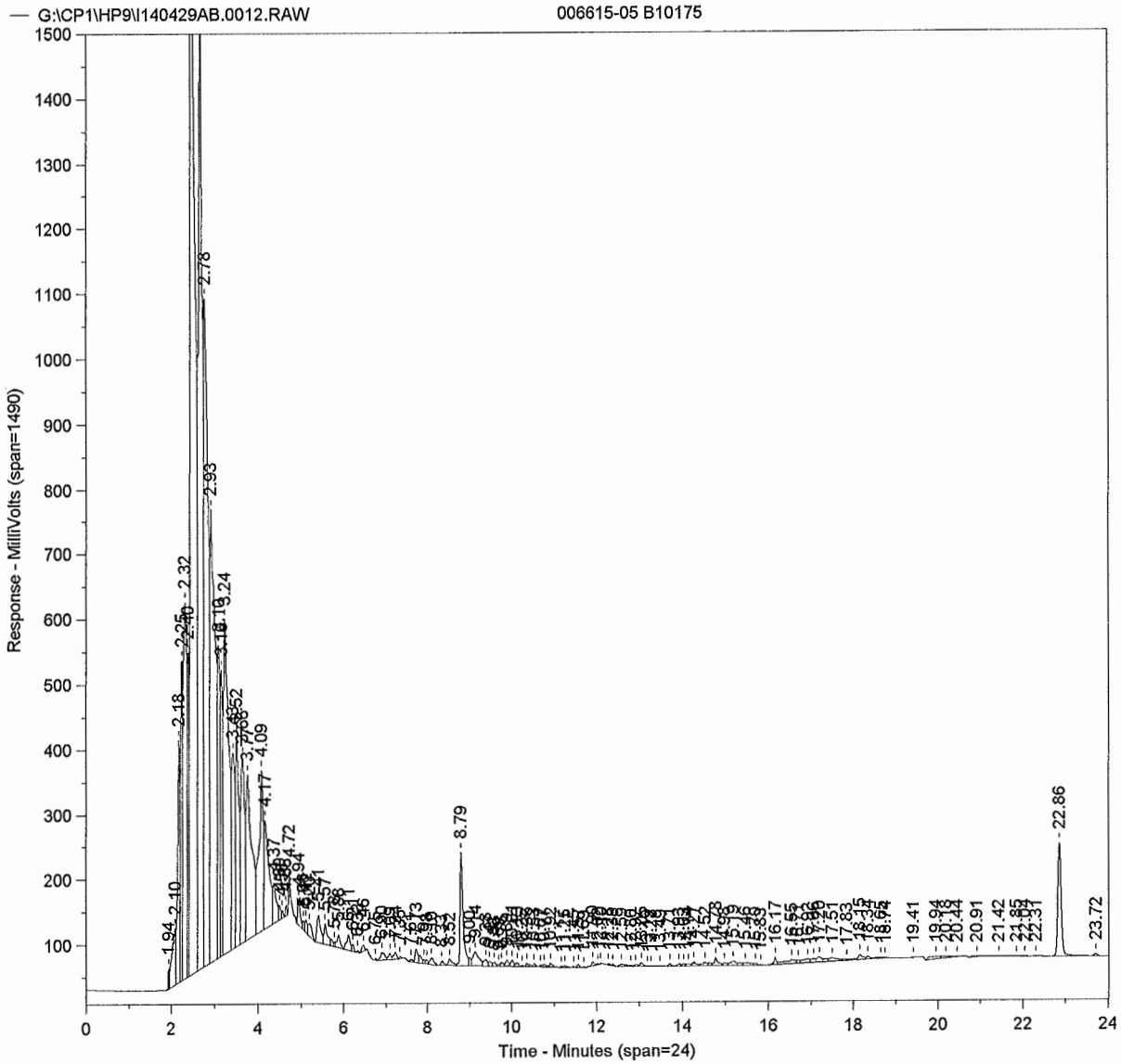
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.90	CL4XYL	564825	9190794	0.061	61.5	24.582		
13.02	HPCLE	7474	10323798	0.001	0.7	0.290		UNDER
19.67	CL10BP	925109	11981994	0.077	77.2	30.883		

* Linear regression

Checked By: JRC Date: 4/30/14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006615-05 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
2
4
6
8
10
12
14
16
18
20
22
24
2.78
2.93
2.32
2.25
2.18
2.10
1.94
3.24
4.09
4.17
4.72
8.79
22.86
23.72

Sample Name = **006615-05 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0012.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 5:51:32 PM
Method Version = 201
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	1.94		0.00	0.000	46777	0.066	BV	0.03
2	2.10		0.00	0.000	556788	0.780	VV	0.09
3	2.18		0.00	0.000	1276777	1.789	VV	0.05
4	2.25		0.00	0.000	1415733	1.983	VV	0.04
5	2.32		0.00	0.000	3303370	4.628	VV	0.06
6	2.40		0.00	0.000	1456127	2.040	VV	0.04
7	2.47		0.00	0.000	15799871	22.134	VV	0.06
8	2.68		0.00	0.000	10107691	14.160	VV	0.04
9	2.78		0.00	0.000	7204987	10.093	VV	0.08
10	2.93		0.00	0.000	5781874	8.100	VV	0.09
11	3.10		0.00	0.000	1992158	2.791	VV	0.05
12	3.16		0.00	0.000	1550673	2.172	VV	0.04
13	3.24		0.00	0.000	4238669	5.938	VV	0.09
14	3.43		0.00	0.000	1645545	2.305	VV	0.06
15	3.52		0.00	0.000	1824067	2.555	VV	0.05
16	3.66		0.00	0.000	1751041	2.453	VV	0.06
17	3.77		0.00	0.000	2375471	3.328	VV	0.10
18	4.09		0.00	0.000	1779571	2.493	VV	0.07
19	4.17		0.00	0.000	1221006	1.711	VV	0.08
20	4.37		0.00	0.000	354051	0.496	VV	0.07
21	4.50		0.00	0.000	64514	0.090	VV	0.04
22	4.56		0.00	0.000	32054	0.045	VV	0.05
23	4.65		0.00	0.000	37415	0.052	VB	0.04
24	4.72		0.00	0.000	77443	0.108	BB	0.04
25	4.94		0.00	0.000	158929	0.223	BV	0.06
26	5.06		0.00	0.000	44410	0.062	VV	0.04
27	5.12		0.00	0.000	70235	0.098	VV	0.05
28	5.20		0.00	0.000	114582	0.161	VB	0.10
29	5.41		0.00	0.000	264281	0.370	BV	0.09
30	5.57		0.00	0.000	173617	0.243	VV	0.06
31	5.78		0.00	0.000	18610	0.026	VV	0.03
32	5.88		0.00	0.000	104874	0.147	VV	0.09
33	6.11		0.00	0.000	134783	0.189	VV	0.08
34	6.21		0.00	0.000	35823	0.050	VB	0.06
35	6.33		0.00	0.000	8883	0.012	BB	0.07
36	6.46		0.00	0.000	37297	0.052	BB	0.09
37	6.75		0.00	0.000	4895	0.007	BB	0.04
38	6.90		0.00	0.000	78682	0.110	BV	0.12
39	7.09		0.00	0.000	49997	0.070	VV	0.08
40	7.24		0.00	0.000	51674	0.072	VB	0.10
41	7.35		0.00	0.000	10329	0.014	BB	0.07
42	7.61		0.00	0.000	14749	0.021	BV	0.06
43	7.73		0.00	0.000	88288	0.124	VV	0.08
44	7.91		0.00	0.000	18241	0.026	VV	0.04
45	7.98		0.00	0.000	23083	0.032	VV	0.06
46	8.10		0.00	0.000	64658	0.091	VB	0.11
47	8.33		0.00	0.000	35554	0.050	BV	0.08
48	8.52		0.00	0.000	70018	0.098	VV	0.09
49	8.79	CL4XYL	0.06	40.576	847512	1.187	VV	0.06
50	9.00		0.00	0.000	48217	0.068	VV	0.05
51	9.14		0.00	0.000	222312	0.311	VV	0.12
52	9.38		0.00	0.000	66233	0.093	VV	0.07

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.47		0.00	0.000	37440	0.052	VV	0.05
54	9.58		0.00	0.000	29809	0.042	VV	0.08
55	9.69		0.00	0.000	10695	0.015	VV	0.04
56	9.76		0.00	0.000	30354	0.043	VV	0.07
57	9.89		0.00	0.000	47635	0.067	VV	0.06
58	10.01		0.00	0.000	45156	0.063	VV	0.06
59	10.13		0.00	0.000	32525	0.046	VV	0.10
60	10.25		0.00	0.000	5412	0.008	VV	0.06
61	10.36	ABHC	0.00	1.200	29574	0.041	VV	0.11
62	10.53		0.00	0.000	19520	0.027	VV	0.07
63	10.67		0.00	0.000	6497	0.009	VV	0.04
64	10.77		0.00	0.000	22391	0.031	VV	0.10
65	10.92		0.00	0.000	27186	0.038	VB	0.09
66	11.17		0.00	0.000	4294	0.006	BV	0.05
67	11.25	LINDANE	0.00	0.608	12307	0.017	VB	0.09
68	11.45	BBHC	0.00	0.412	4711	0.007	BV	0.04
69	11.57		0.00	0.000	17393	0.024	VB	0.06
70	11.69		0.00	0.000	1942	0.003	BB	0.05
71	11.90		0.00	0.000	27049	0.038	BV	0.10
72	12.02		0.00	0.000	7273	0.010	VV	0.05
73	12.10	DBHC	0.00	0.190	3745	0.005	VB	0.04
74	12.28		0.00	0.000	8164	0.011	BV	0.05
75	12.38		0.00	0.000	7979	0.011	VB	0.07
76	12.59		0.00	0.000	26597	0.037	BV	0.14
77	12.80		0.00	0.000	6243	0.009	VV	0.05
78	12.92	ALDRN	0.00	0.663	16295	0.023	VV	0.10
79	13.05		0.00	0.000	26225	0.037	VV	0.08
80	13.19		0.00	0.000	2993	0.004	VV	0.05
81	13.28		0.00	0.000	5769	0.008	VV	0.06
82	13.49		0.00	0.000	5890	0.008	VV	0.12
83	13.71		0.00	0.000	16623	0.023	VV	0.06
84	13.93		0.00	0.000	17378	0.024	VV	0.07
85	14.03		0.00	0.000	15165	0.021	VV	0.06
86	14.14	HPCLE	0.00	1.619	29178	0.041	VV	0.08
87	14.27		0.00	0.000	37277	0.052	VV	0.06
88	14.52		0.00	0.000	49616	0.070	VV	0.12
89	14.78		0.00	0.000	78099	0.109	VV	0.05
90	14.98		0.00	0.000	29265	0.041	VV	0.11
91	15.19		0.00	0.000	65701	0.092	VV	0.09
92	15.46		0.00	0.000	52507	0.074	VV	0.13
93	15.70		0.00	0.000	19655	0.028	VV	0.11
94	15.83		0.00	0.000	6332	0.009	VB	0.07
95	16.17		0.00	0.000	48938	0.069	BV	0.05
96	16.55		0.00	0.000	111963	0.157	VV	0.16
97	16.71		0.00	0.000	21782	0.031	VV	0.06
98	16.92	PPDDT *	0.01	5.453	67205	0.094	VV	0.16
99	17.06		0.00	0.000	41722	0.058	VV	0.07
100	17.20		0.00	0.000	60507	0.085	VV	0.09
101	17.51		0.00	0.000	70170	0.098	VV	0.12
102	17.83		0.00	0.000	15859	0.022	VV	0.11
103	18.15		0.00	0.000	56894	0.080	VV	0.10
104	18.34		0.00	0.000	25887	0.036	VV	0.06
105	18.65		0.00	0.000	14265	0.020	VV	0.17
106	18.74		0.00	0.000	2652	0.004	VB	0.05
107	19.41		0.00	0.000	3274	0.005	BB	0.15
108	19.94		0.00	0.000	71940	0.101	BV	0.31
109	20.18		0.00	0.000	31400	0.044	VV	0.12
110	20.44		0.00	0.000	5676	0.008	VB	0.11
111	20.91		0.00	0.000	13883	0.019	BB	0.24
112	21.42		0.00	0.000	1597	0.002	BB	0.09
113	21.85		0.00	0.000	4373	0.006	BV	0.11
114	22.04		0.00	0.000	2913	0.004	VB	0.10
115	22.31		0.00	0.000	2716	0.004	BB	0.13
116	22.86	CL10BP	0.08	49.280	983491	1.378	BV	0.08

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
117	23.72		0.00	0.000	23389	0.033	VB	0.09

Total Area = 7.138275E+07 Total Height = 1.233308E+07 Total Amount = 0.1550606

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0012.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 5:51:32 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:01:29 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.79	CL4XYL	847512	13470371	0.063	62.9	25.167		
10.36	ABHC	29574	15896177	0.002	1.9	0.744		UNDER
11.25	LINDANE	12307	13048558	0.001	0.9	0.377		UNDER
11.45	BBHC	4711	7372642	0.001	0.6	0.256		UNDER
12.10	DBHC	3745	12715453	0.000	0.3	0.118		UNDER
12.92	ALDRN	16295	15852767	0.001	1.0	0.411		UNDER
14.14	HPCLE	29178	11625932	0.003	2.5	1.004		UNDER
16.92	PPDDT *	67205	6988384	0.008	8.5	3.382		UNDER
22.86	CL10BP	983491	12870687	0.076	76.4	30.565		

* Linear regression

Checked By: TRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

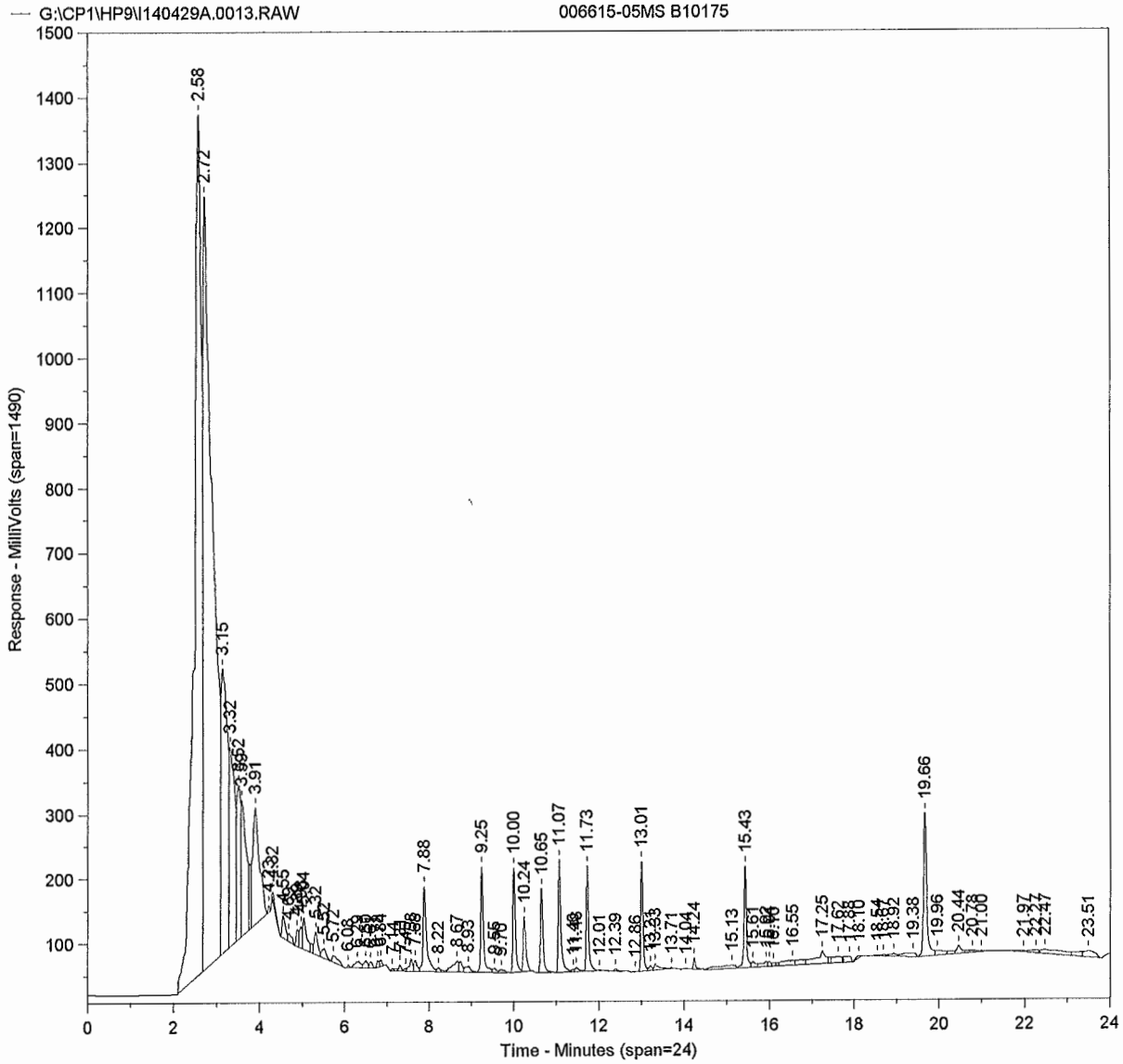
Field ID:	MAK116C	ARDL Lab No.:	006615-05MS
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1330	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.03 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	24.8		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	23.9		UG/KG	1
delta-BHC	3.98	3.98	21.7		UG/KG	1
Heptachlor	3.98	3.98	25.4		UG/KG	1
Aldrin	3.98	3.98	21.8		UG/KG	1
Heptachlor Epoxide	3.98	3.98	23.3		UG/KG	1
p,p'-DDT	3.98	3.98	29.6		UG/KG	1
beta-BHC	3.98	3.98	27.1		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	82%
Decachlorobiphenyl	25-125	98%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Matrix Spike for 006615-05, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0013.RAW
006615-05MS B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
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2.72
3.15
3.32
3.91
7.88
8.22
9.25
10.00
10.24
10.65
11.07
11.73
12.01
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12.86
13.01
13.71
15.13
15.43
16.55
17.25
19.38
19.66
19.96
20.44
23.51

Primary

Sample Name = **006615-05MS B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0013.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 6:19:06 PM
Method Version = 211
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.58		0.00	0.000	15823247	27.098	BV	0.16
2	2.72		0.00	0.000	18768046	32.141	VV	0.17
3	3.15		0.00	0.000	4564953	7.818	VV	0.13
4	3.32		0.00	0.000	2628436	4.501	VV	0.11
5	3.52		0.00	0.000	1524177	2.610	VV	0.07
6	3.59		0.00	0.000	1737154	2.975	VV	0.09
7	3.91		0.00	0.000	2072505	3.549	VV	0.16
8	4.23		0.00	0.000	27506	0.047	VB	0.04
9	4.32		0.00	0.000	46962	0.080	BB	0.08
10	4.55		0.00	0.000	191264	0.328	BV	0.08
11	4.69		0.00	0.000	80337	0.138	VB	0.12
12	4.89		0.00	0.000	98091	0.168	BV	0.06
13	4.98		0.00	0.000	153365	0.263	VV	0.04
14	5.04		0.00	0.000	305849	0.524	VV	0.08
15	5.32		0.00	0.000	220653	0.378	VV	0.09
16	5.52		0.00	0.000	109751	0.188	VB	0.14
17	5.72		0.00	0.000	112455	0.193	BB	0.21
18	6.08		0.00	0.000	12700	0.022	BV	0.05
19	6.29		0.00	0.000	102250	0.175	VV	0.20
20	6.50		0.00	0.000	69695	0.119	VV	0.08
21	6.61		0.00	0.000	49667	0.085	VB	0.10
22	6.78		0.00	0.000	35212	0.060	BV	0.06
23	6.84		0.00	0.000	35683	0.061	VB	0.07
24	7.14		0.00	0.000	13029	0.022	BV	0.07
25	7.31		0.00	0.000	38233	0.065	VV	0.06
26	7.45		0.00	0.000	15975	0.027	VV	0.05
27	7.58		0.00	0.000	98808	0.169	VV	0.06
28	7.68		0.00	0.000	82878	0.142	VV	0.06
29	7.88	CL4XYL	0.08	12.093	751941	1.288	VV	0.07
30	8.22		0.00	0.000	28261	0.048	VV	0.07
31	8.67		0.00	0.000	172759	0.296	VV	0.16
32	8.93		0.00	0.000	74981	0.128	VV	0.16
33	9.25	ABHC *	0.06	9.217	706176	1.209	VV	0.06
34	9.55		0.00	0.000	35903	0.061	VV	0.10
35	9.70		0.00	0.000	33378	0.057	VB	0.15
36	10.00	LINDANE *	0.06	8.868	657253	1.126	BV	0.06
37	10.24	BBHC	0.07	10.080	392316	0.672	VB	0.07
38	10.65	DBHC *	0.05	8.059	525295	0.900	BB	0.06
39	11.07	HPCL	0.06	9.438	729703	1.250	BV	0.06
40	11.40		0.00	0.000	16421	0.028	VV	0.06
41	11.48		0.00	0.000	37783	0.065	VV	0.09
42	11.73	ALDRN *	0.05	8.111	614515	1.052	VV	0.05
43	12.01		0.00	0.000	5887	0.010	VB	0.08
44	12.39		0.00	0.000	19062	0.033	BB	0.09
45	12.86		0.00	0.000	2805	0.005	BV	0.09
46	13.01	HPCLE	0.06	8.676	605973	1.038	VV	0.05
47	13.21		0.00	0.000	38041	0.065	VV	0.06
48	13.33		0.00	0.000	62813	0.108	VV	0.08
49	13.71		0.00	0.000	5265	0.009	VB	0.05
50	14.04		0.00	0.000	6147	0.011	BV	0.05
51	14.24		0.00	0.000	55055	0.094	VB	0.04
52	15.13		0.00	0.000	152851	0.262	BV	0.60

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	15.43	PPDDT	0.07	10.988	629291	1.078	VV	0.05
54	15.61		0.00	0.000	56146	0.096	VV	0.05
55	15.92		0.00	0.000	74182	0.127	VV	0.07
56	16.01		0.00	0.000	33831	0.058	VV	0.07
57	16.10		0.00	0.000	30879	0.053	VV	0.09
58	16.55		0.00	0.000	145049	0.248	VV	0.31
59	17.25		0.00	0.000	299717	0.513	VV	0.09
60	17.62		0.00	0.000	137892	0.236	VV	0.16
61	17.88		0.00	0.000	97096	0.166	VB	0.19
62	18.10		0.00	0.000	26992	0.046	BB	0.15
63	18.54		0.00	0.000	6861	0.012	BV	0.11
64	18.67		0.00	0.000	14204	0.024	VV	0.12
65	18.92		0.00	0.000	40104	0.069	VV	0.08
66	19.38		0.00	0.000	118901	0.204	VB	0.41
67	19.66	CL10BP	0.10	14.471	1173120	2.009	BV	0.07
68	19.96		0.00	0.000	105397	0.180	VV	0.12
69	20.44		0.00	0.000	95140	0.163	VV	0.07
70	20.78		0.00	0.000	31510	0.054	VV	0.15
71	21.00		0.00	0.000	12181	0.021	VB	0.18
72	21.97		0.00	0.000	31015	0.053	BV	0.35
73	22.27		0.00	0.000	61744	0.106	VV	0.21
74	22.47		0.00	0.000	248434	0.425	VV	0.45
75	23.51		0.00	0.000	173294	0.297	VB	0.33

Total Area = 5.839244E+07 Total Height = 6004217 Total Amount = 0.6765703

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05MS B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0013.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 6:19:06 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

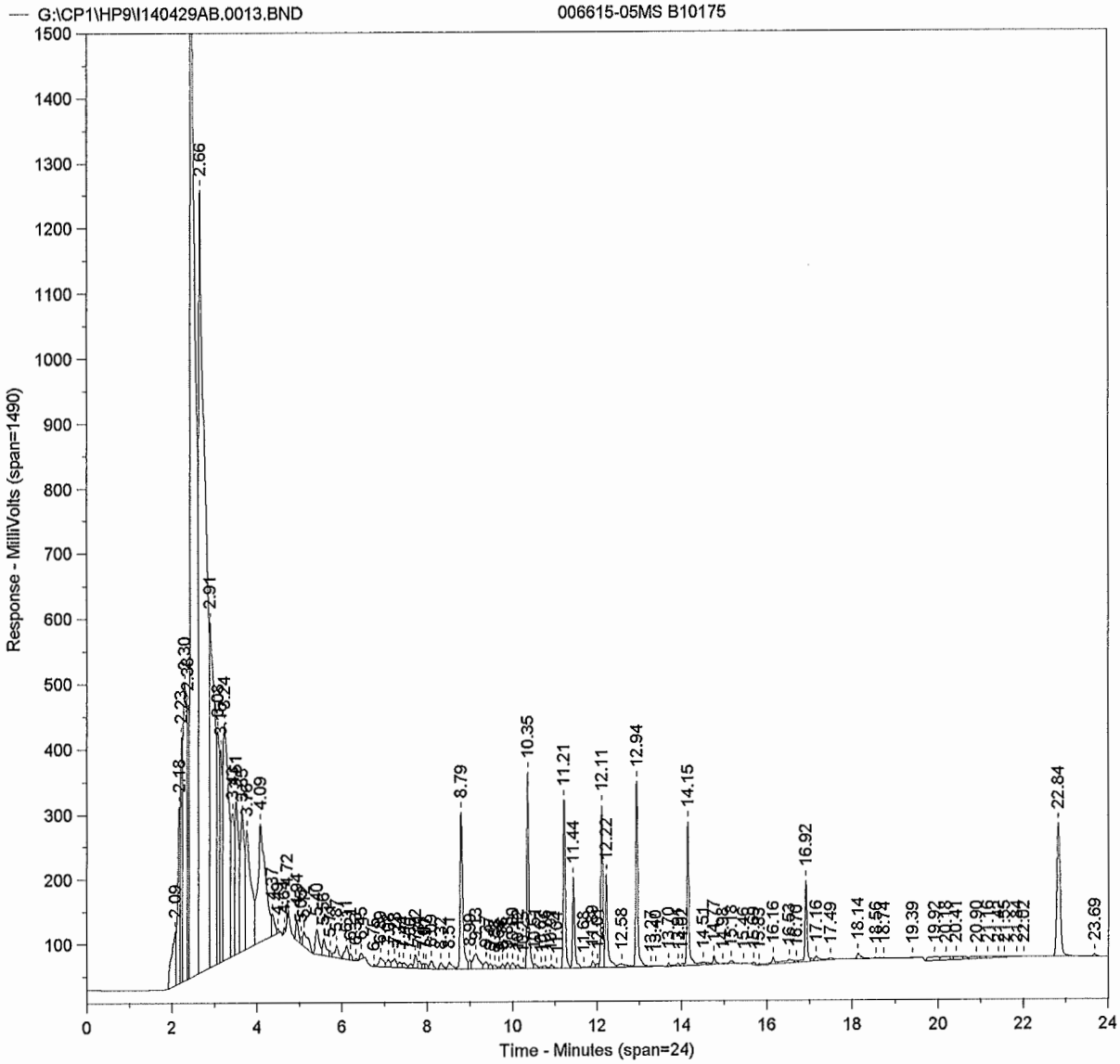
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD
7.88	CL4XYL	751941	9190794	0.082	81.8	32.726	
9.25	ABHC *	706176	10460059	0.062	62.4	24.945	
10.00	LINDANE *	657253	10341835	0.060	60.0	23.999	
10.24	BBHC	392316	5752682	0.068	68.2	27.279	
10.65	DBHC *	525295	9281534	0.055	54.5	21.811	
11.07	HPCL	729703	11427910	0.064	63.9	25.541	
11.73	ALDRN *	614515	10902218	0.055	54.9	21.949	
13.01	HPCLE	605973	10323798	0.059	58.7	23.479	
15.43	PPDDT	629291	8464711	0.074	74.3	29.737	
19.66	CL10BP	1173120	11981994	0.098	97.9	39.163	

* Linear regression

Checked By: JBC Date: 4/30/14


G:\CP1\HP9\I140429AB.0013.BND
006615-05MS B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.09
2.18
2.23
2.30
2.66
2.91
3.24
4.09
8.79
10.35
11.21
11.44
12.11
12.22
12.58
12.94
14.15
16.16
16.92
17.16
17.49
18.14
18.74
19.39
22.84
23.69

Sample Name = **006615-05MS B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0013.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 6:19:06 PM
Method Version = 201
Calibration Version = 10

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	604243	0.936	BV	0.13
2	2.18		0.00	0.000	1014862	1.572	VV	0.05
3	2.23		0.00	0.000	1004776	1.557	VV	0.03
4	2.30		0.00	0.000	2872279	4.450	VV	0.08
5	2.38		0.00	0.000	1249835	1.936	VV	0.04
6	2.46		0.00	0.000	14332123	22.203	VV	0.11
7	2.66		0.00	0.000	13093751	20.284	VV	0.10
8	2.91		0.00	0.000	4423860	6.853	VV	0.09
9	3.08		0.00	0.000	1513815	2.345	VV	0.05
10	3.15		0.00	0.000	1181730	1.831	VV	0.04
11	3.24		0.00	0.000	3361923	5.208	VV	0.11
12	3.43		0.00	0.000	1148548	1.779	VV	0.06
13	3.51		0.00	0.000	1439717	2.230	VV	0.07
14	3.65		0.00	0.000	1393599	2.159	VV	0.07
15	3.76		0.00	0.000	1714229	2.656	VV	0.10
16	4.09		0.00	0.000	2264355	3.508	VV	0.14
17	4.37		0.00	0.000	175103	0.271	VV	0.07
18	4.49		0.00	0.000	17995	0.028	VB	0.04
19	4.64		0.00	0.000	20640	0.032	BB	0.05
20	4.72		0.00	0.000	65866	0.102	BB	0.05
21	4.94		0.00	0.000	141548	0.219	BV	0.07
22	5.05		0.00	0.000	36024	0.056	VV	0.04
23	5.12		0.00	0.000	203666	0.316	VB	0.17
24	5.40		0.00	0.000	239213	0.371	BV	0.09
25	5.56		0.00	0.000	154335	0.239	VV	0.06
26	5.71		0.00	0.000	28859	0.045	VV	0.04
27	5.87		0.00	0.000	121881	0.189	VV	0.08
28	6.11		0.00	0.000	134424	0.208	VV	0.09
29	6.21		0.00	0.000	32051	0.050	VB	0.06
30	6.33		0.00	0.000	9234	0.014	BB	0.06
31	6.45		0.00	0.000	37169	0.058	BB	0.08
32	6.75		0.00	0.000	8186	0.013	BV	0.04
33	6.89		0.00	0.000	106187	0.165	VV	0.13
34	7.08		0.00	0.000	73872	0.114	VV	0.07
35	7.23		0.00	0.000	85698	0.133	VV	0.10
36	7.34		0.00	0.000	46015	0.071	VV	0.06
37	7.44		0.00	0.000	40987	0.063	VV	0.08
38	7.60		0.00	0.000	35455	0.055	VV	0.06
39	7.72		0.00	0.000	95823	0.148	VV	0.07
40	7.81		0.00	0.000	52322	0.081	VV	0.06
41	7.91		0.00	0.000	30155	0.047	VV	0.04
42	7.97		0.00	0.000	29000	0.045	VV	0.05
43	8.09		0.00	0.000	71832	0.111	VB	0.09
44	8.32		0.00	0.000	55392	0.086	BV	0.08
45	8.51		0.00	0.000	74616	0.116	VV	0.09
46	8.79	CL4XYL	0.08	10.958	1020843	1.581	VV	0.06
47	8.99		0.00	0.000	52079	0.081	VV	0.04
48	9.13		0.00	0.000	242062	0.375	VV	0.12
49	9.37		0.00	0.000	72824	0.113	VV	0.07
50	9.47		0.00	0.000	36494	0.057	VV	0.05
51	9.58		0.00	0.000	33163	0.051	VV	0.08
52	9.68		0.00	0.000	12263	0.019	VV	0.05

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.76		0.00	0.000	37369	0.058	VV	0.06
54	9.88		0.00	0.000	45858	0.071	VV	0.05
55	10.00		0.00	0.000	46614	0.072	VV	0.06
56	10.12		0.00	0.000	32708	0.051	VV	0.09
57	10.25		0.00	0.000	6139	0.010	VV	0.04
58	10.35	ABHC	0.06	9.197	1011123	1.566	VV	0.05
59	10.51		0.00	0.000	39352	0.061	VV	0.07
60	10.67		0.00	0.000	10589	0.016	VV	0.04
61	10.76		0.00	0.000	24386	0.038	VV	0.09
62	10.91		0.00	0.000	28588	0.044	VV	0.08
63	11.04		0.00	0.000	3669	0.006	VB	0.04
64	11.21	LINDANE	0.07	9.456	853358	1.322	BV	0.05
65	11.44	BBHC	0.07	9.829	501175	0.776	VV	0.05
66	11.68		0.00	0.000	10002	0.015	VV	0.06
67	11.89		0.00	0.000	59094	0.092	VV	0.08
68	12.01		0.00	0.000	28366	0.044	VV	0.04
69	12.11	DBHC	0.06	9.104	800610	1.240	VV	0.05
70	12.22	HPCL	0.08	11.509	565023	0.875	VV	0.05
71	12.58		0.00	0.000	47912	0.074	VV	0.13
72	12.94	ALDRN	0.06	8.781	962732	1.491	VB	0.05
73	13.27		0.00	0.000	6378	0.010	BV	0.11
74	13.40		0.00	0.000	1659	0.003	VB	0.07
75	13.70		0.00	0.000	15081	0.023	BV	0.05
76	13.91		0.00	0.000	17833	0.028	VV	0.08
77	14.02		0.00	0.000	12569	0.019	VV	0.06
78	14.15	HPCLE	0.06	9.237	742688	1.151	VV	0.05
79	14.51		0.00	0.000	40880	0.063	VV	0.10
80	14.77		0.00	0.000	54272	0.084	VV	0.05
81	14.98		0.00	0.000	4645	0.007	VV	0.10
82	15.18		0.00	0.000	25643	0.040	VB	0.09
83	15.46		0.00	0.000	1306	0.002	BB	0.06
84	15.69		0.00	0.000	13233	0.021	BB	0.13
85	15.83		0.00	0.000	10152	0.016	BV	0.14
86	16.16		0.00	0.000	48708	0.075	VV	0.05
87	16.53		0.00	0.000	77609	0.120	VV	0.14
88	16.70		0.00	0.000	12268	0.019	VV	0.06
89	16.92	PPDDT *	0.06	9.060	405997	0.629	VV	0.04
90	17.16		0.00	0.000	41901	0.065	VV	0.06
91	17.49		0.00	0.000	18772	0.029	VB	0.08
92	18.14		0.00	0.000	46030	0.071	BV	0.09
93	18.56		0.00	0.000	8592	0.013	VV	0.16
94	18.74		0.00	0.000	3178	0.005	VB	0.06
95	19.39		0.00	0.000	3264	0.005	BB	0.16
96	19.92		0.00	0.000	97000	0.150	BV	0.31
97	20.18		0.00	0.000	68038	0.105	VV	0.12
98	20.41		0.00	0.000	59609	0.092	VV	0.09
99	20.90		0.00	0.000	50666	0.078	VV	0.23
100	21.16		0.00	0.000	26992	0.042	VV	0.12
101	21.42		0.00	0.000	18559	0.029	VV	0.09
102	21.55		0.00	0.000	12640	0.020	VV	0.06
103	21.84		0.00	0.000	10858	0.017	VV	0.10
104	22.02		0.00	0.000	6983	0.011	VB	0.09
105	22.84	CL10BP	0.09	12.868	1145391	1.774	BV	0.08
106	23.69		0.00	0.000	20425	0.032	VB	0.09

Total Area = 6.455141E+07 Total Height = 9982000 Total Amount = 0.6915939

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05MS B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0013.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 6:19:06 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 10
Calibration Date = 4/30/14 1:18:33 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD
8.79	CL4XYL	1020843	13470371	0.076	75.8	30.314	
10.35	ABHC	1011123	15896177	0.064	63.6	25.443	
11.21	LINDANE	853358	13048558	0.065	65.4	26.159	
11.44	BBHC	501175	7372642	0.068	68.0	27.191	
12.11	DBHC	800610	12715453	0.063	63.0	25.185	
12.22	HPCL	565023	7098509	0.080	79.6	31.839	
12.94	ALDRN	962732	15852767	0.061	60.7	24.292	
14.15	HPCLE	742688	11625932	0.064	63.9	25.553	
16.92	PPDDT *	405997	6988384	0.063	62.7	25.064	
22.84	CL10BP	1145391	12870687	0.089	89.0	35.597	

* Linear regression

Checked By: TRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

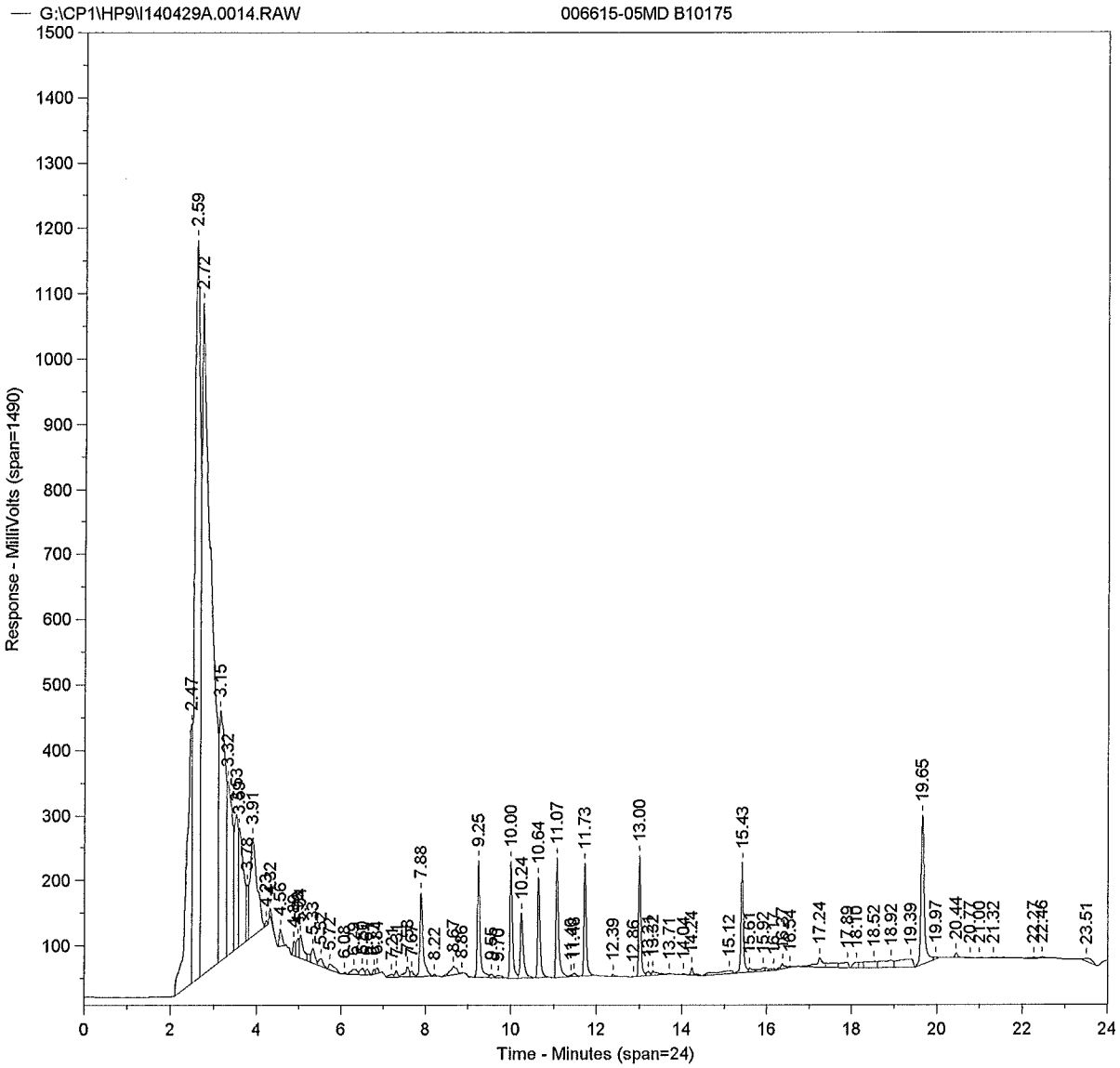
Field ID:	MAK116C	ARDL Lab No.:	006615-05MD
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1330	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.02 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	26.5		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	26.3		UG/KG	1
delta-BHC	3.98	3.98	24.3		UG/KG	1
Heptachlor	3.98	3.98	26.2		UG/KG	1
Aldrin	3.98	3.98	22.3		UG/KG	1
Heptachlor Epoxide	3.98	3.98	25.8		UG/KG	1
p,p'-DDT	3.98	3.98	31.2		UG/KG	1
beta-BHC	3.98	3.98	33.6		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	76%
Decachlorobiphenyl	25-125	100%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Matrix Spike Duplicate for 006615-05, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0014.RAW
006615-05MD B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.47
2.59
2.72
3.15
3.32
3.91
4.23
7.88
8.22
9.25
10.00
10.24
10.64
11.07
11.73
12.39
12.86
13.00
13.71
15.12
15.43
17.24
18.52
18.92
19.39
19.65
19.97
20.44
20.77
21.00
21.32
23.51

Primary

Sample Name = **006615-05MD B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0014.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 6:46:27 PM
Method Version = 211
Calibration Version = 8

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.47		0.00	0.000	3113472	6.055	BV	0.12
2	2.59		0.00	0.000	10312587	20.057	VV	0.15
3	2.72		0.00	0.000	16372994	31.844	VV	0.17
4	3.15		0.00	0.000	3977373	7.736	VV	0.13
5	3.32		0.00	0.000	2280257	4.435	VV	0.11
6	3.53		0.00	0.000	1289435	2.508	VV	0.07
7	3.59		0.00	0.000	1496196	2.910	VV	0.09
8	3.78		0.00	0.000	237408	0.462	VV	0.03
9	3.91		0.00	0.000	1760200	3.423	VV	0.16
10	4.23		0.00	0.000	24025	0.047	VB	0.04
11	4.32		0.00	0.000	47988	0.093	BB	0.08
12	4.56		0.00	0.000	116594	0.227	BB	0.08
13	4.89		0.00	0.000	79739	0.155	BV	0.06
14	4.98		0.00	0.000	135955	0.264	VV	0.05
15	5.04		0.00	0.000	216136	0.420	VV	0.08
16	5.33		0.00	0.000	139152	0.271	VV	0.11
17	5.52		0.00	0.000	85156	0.166	VB	0.14
18	5.72		0.00	0.000	91826	0.179	BB	0.21
19	6.08		0.00	0.000	8546	0.017	BB	0.05
20	6.29		0.00	0.000	79370	0.154	BV	0.19
21	6.50		0.00	0.000	60304	0.117	VV	0.08
22	6.61		0.00	0.000	42164	0.082	VB	0.10
23	6.77		0.00	0.000	25367	0.049	BV	0.06
24	6.84		0.00	0.000	30048	0.058	VB	0.07
25	7.21		0.00	0.000	31128	0.061	BV	0.15
26	7.31		0.00	0.000	37169	0.072	VV	0.06
27	7.58		0.00	0.000	99529	0.194	VV	0.07
28	7.67		0.00	0.000	38762	0.075	VV	0.07
29	7.88	CL4XYL	0.08	10.604	700804	1.363	VV	0.07
30	8.22		0.00	0.000	13198	0.026	VB	0.07
31	8.67		0.00	0.000	134467	0.262	BB	0.21
32	8.86		0.00	0.000	2383	0.005	BB	0.06
33	9.25	ABHC *	0.07	9.264	768367	1.494	BV	0.06
34	9.55		0.00	0.000	27860	0.054	VV	0.08
35	9.70		0.00	0.000	31203	0.061	VB	0.15
36	10.00	LINDANE *	0.07	9.168	737887	1.435	BV	0.06
37	10.24	BBHC	0.08	11.736	485466	0.944	VB	0.07
38	10.64	DBHC *	0.06	8.479	609126	1.185	BB	0.06
39	11.07	HPCL	0.07	9.160	752732	1.464	BV	0.06
40	11.40		0.00	0.000	11339	0.022	VV	0.05
41	11.48		0.00	0.000	27712	0.054	VV	0.09
42	11.73	ALDRN *	0.06	7.775	628780	1.223	VB	0.05
43	12.39		0.00	0.000	16649	0.032	BB	0.09
44	12.86		0.00	0.000	2366	0.005	BB	0.10
45	13.00	HPCLE	0.06	9.019	669481	1.302	BV	0.05
46	13.21		0.00	0.000	36807	0.072	VV	0.07
47	13.32		0.00	0.000	53952	0.105	VV	0.09
48	13.71		0.00	0.000	6088	0.012	VB	0.05
49	14.04		0.00	0.000	7246	0.014	BV	0.05
50	14.24		0.00	0.000	63535	0.124	VB	0.05
51	15.12		0.00	0.000	161416	0.314	BB	0.64
52	15.43	PPDDT	0.08	10.902	663568	1.291	BV	0.05

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	15.61		0.00	0.000	42431	0.083	VV	0.06
54	15.92		0.00	0.000	44124	0.086	VV	0.07
55	16.17		0.00	0.000	21594	0.042	VB	0.14
56	16.37		0.00	0.000	49901	0.097	BV	0.15
57	16.54		0.00	0.000	7714	0.015	VB	0.07
58	17.24		0.00	0.000	146745	0.285	BV	0.10
59	17.89		0.00	0.000	101490	0.197	VB	0.24
60	18.10		0.00	0.000	72994	0.142	BV	0.15
61	18.52		0.00	0.000	175354	0.341	VV	0.23
62	18.92		0.00	0.000	226360	0.440	VV	0.13
63	19.39		0.00	0.000	303266	0.590	VB	0.45
64	19.65	CL10BP	0.10	13.893	1196969	2.328	BV	0.07
65	19.97		0.00	0.000	20348	0.040	VB	0.09
66	20.44		0.00	0.000	34385	0.067	BV	0.07
67	20.77		0.00	0.000	8768	0.017	VB	0.15
68	21.00		0.00	0.000	5263	0.010	BB	0.18
69	21.32		0.00	0.000	4008	0.008	BB	0.18
70	22.27		0.00	0.000	16906	0.033	BV	0.22
71	22.46		0.00	0.000	20501	0.040	VB	0.12
72	23.51		0.00	0.000	75371	0.147	BB	0.30

Total Area = 5.141582E+07 Total Height = 5948458 Total Amount = 0.7190549

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05MD B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0014.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 6:46:27 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 8
Calibration Date = 4/29/14 4:00:56 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

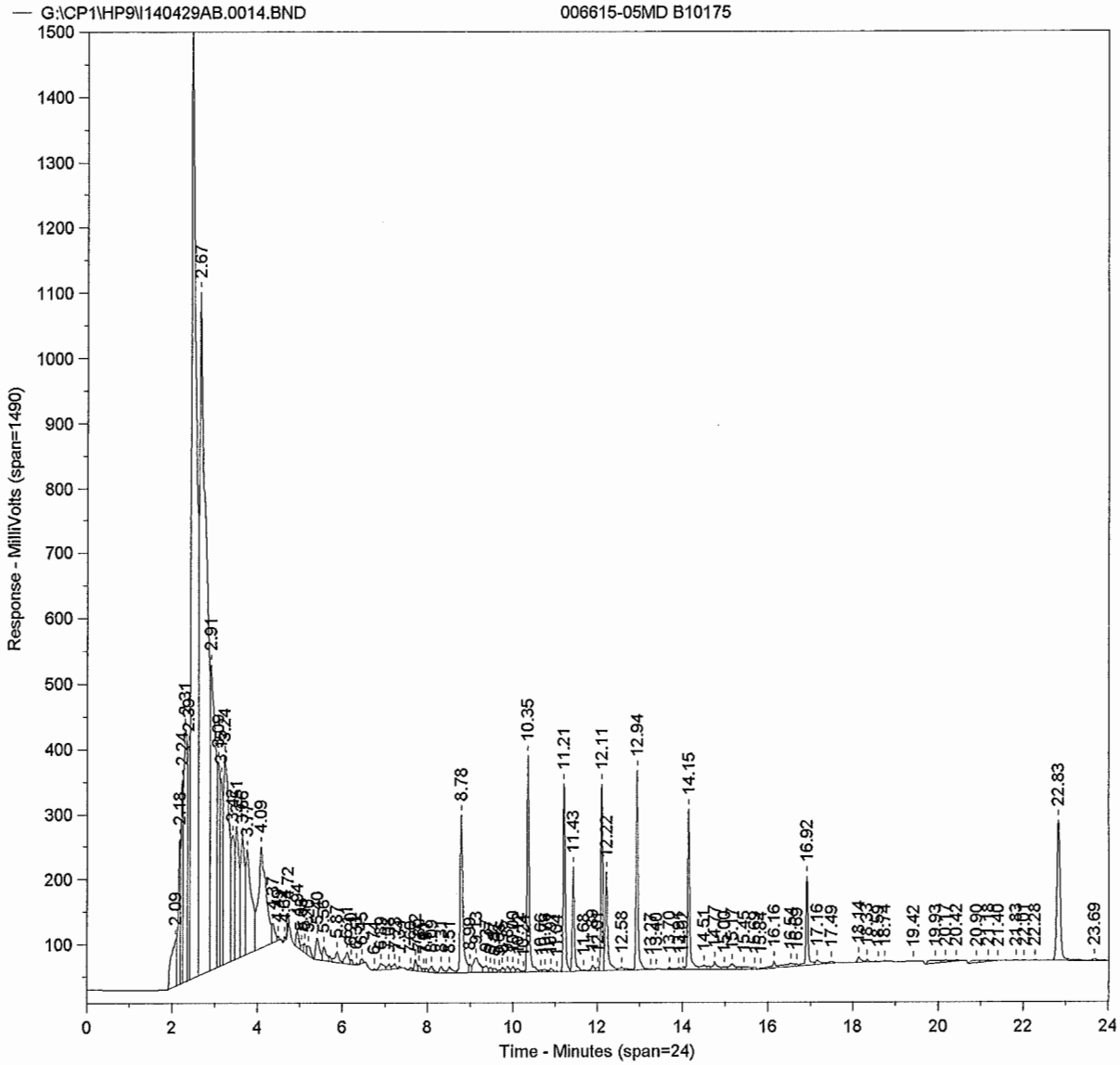
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD
7.88	CL4XYL	700804	9190794	0.076	76.3	30.500	
9.25	ABHC *	768367	10460059	0.067	66.6	26.646	
10.00	LINDANE *	737887	10341835	0.066	65.9	26.368	
10.24	BBHC	485466	5752682	0.084	84.4	33.756	
10.64	DBHC *	609126	9281534	0.061	61.0	24.388	
11.07	HPCL	752732	11427910	0.066	65.9	26.347	
11.73	ALDRN *	628780	10902218	0.056	55.9	22.362	
13.00	HPCLE	669481	10323798	0.065	64.8	25.939	
15.43	PPDDT	663568	8464711	0.078	78.4	31.357	
19.65	CL10BP	1196969	11981994	0.100	99.9	39.959	

* Linear regression

Checked By: DRC Date: 4/30/14


G:\CP1\HP9\I140429AB.0014.BND
006615-05MD B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.09
2.18
2.24
2.31
2.67
2.91
4.09
8.78
10.35
11.21
11.43
12.11
12.22
12.58
12.94
14.15
16.92
22.83
23.69

Sample Name = **006615-05MD B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0014.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 6:46:27 PM
Method Version = 201
Calibration Version = 10

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	603304	1.045	BV	0.15
2	2.18		0.00	0.000	861398	1.493	VV	0.05
3	2.24		0.00	0.000	836061	1.449	VV	0.03
4	2.31		0.00	0.000	2356331	4.083	VV	0.08
5	2.39		0.00	0.000	1071728	1.857	VV	0.03
6	2.46		0.00	0.000	12316015	21.340	VV	0.11
7	2.67		0.00	0.000	11390037	19.735	VV	0.10
8	2.91		0.00	0.000	3917818	6.788	VV	0.09
9	3.09		0.00	0.000	1340192	2.322	VV	0.05
10	3.15		0.00	0.000	1046162	1.813	VV	0.04
11	3.24		0.00	0.000	2913644	5.048	VV	0.11
12	3.42		0.00	0.000	1041870	1.805	VV	0.06
13	3.51		0.00	0.000	1248218	2.163	VV	0.07
14	3.66		0.00	0.000	1215061	2.105	VV	0.07
15	3.77		0.00	0.000	1483816	2.571	VV	0.10
16	4.09		0.00	0.000	1950240	3.379	VV	0.14
17	4.37		0.00	0.000	154987	0.269	VV	0.07
18	4.49		0.00	0.000	16126	0.028	VB	0.04
19	4.64		0.00	0.000	16816	0.029	BB	0.05
20	4.72		0.00	0.000	53981	0.094	BB	0.05
21	4.94		0.00	0.000	116278	0.201	BV	0.07
22	5.05		0.00	0.000	30599	0.053	VV	0.05
23	5.11		0.00	0.000	54752	0.095	VV	0.05
24	5.20		0.00	0.000	83354	0.144	VB	0.10
25	5.40		0.00	0.000	203261	0.352	BV	0.09
26	5.56		0.00	0.000	128078	0.222	VV	0.06
27	5.87		0.00	0.000	101649	0.176	VV	0.08
28	6.11		0.00	0.000	109752	0.190	VV	0.09
29	6.20		0.00	0.000	27363	0.047	VB	0.06
30	6.33		0.00	0.000	6891	0.012	BB	0.06
31	6.45		0.00	0.000	30768	0.053	BB	0.08
32	6.74		0.00	0.000	4705	0.008	BB	0.04
33	6.89		0.00	0.000	70957	0.123	BV	0.14
34	7.08		0.00	0.000	42277	0.073	VV	0.07
35	7.23		0.00	0.000	42440	0.074	VB	0.10
36	7.34		0.00	0.000	10051	0.017	BB	0.07
37	7.60		0.00	0.000	18079	0.031	BV	0.07
38	7.72		0.00	0.000	72930	0.126	VV	0.07
39	7.80		0.00	0.000	38185	0.066	VV	0.06
40	7.91		0.00	0.000	15238	0.026	VV	0.03
41	7.97		0.00	0.000	19834	0.034	VV	0.06
42	8.09		0.00	0.000	52823	0.092	VB	0.10
43	8.31		0.00	0.000	53137	0.092	BV	0.09
44	8.51		0.00	0.000	61877	0.107	VV	0.08
45	8.78	CL4XYL	0.08	10.135	1032463	1.789	VV	0.06
46	8.99		0.00	0.000	46313	0.080	VV	0.05
47	9.13		0.00	0.000	237284	0.411	VV	0.11
48	9.37		0.00	0.000	66908	0.116	VV	0.10
49	9.47		0.00	0.000	34917	0.061	VV	0.05
50	9.57		0.00	0.000	32839	0.057	VV	0.09
51	9.68		0.00	0.000	12206	0.021	VV	0.05
52	9.75		0.00	0.000	35678	0.062	VV	0.06

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	9.87		0.00	0.000	42736	0.074	VV	0.05
54	10.00		0.00	0.000	41615	0.072	VV	0.06
55	10.12		0.00	0.000	30704	0.053	VV	0.09
56	10.24		0.00	0.000	6295	0.011	VV	0.04
57	10.35	ABHC	0.07	9.664	1161739	2.013	VV	0.05
58	10.66		0.00	0.000	12016	0.021	VV	0.05
59	10.76		0.00	0.000	27576	0.048	VV	0.10
60	10.91		0.00	0.000	27021	0.047	VV	0.08
61	11.04		0.00	0.000	4429	0.008	VB	0.05
62	11.21	LINDANE	0.07	9.649	952162	1.650	BV	0.05
63	11.43	BBHC	0.08	10.286	573480	0.994	VV	0.05
64	11.68		0.00	0.000	9359	0.016	VV	0.06
65	11.89		0.00	0.000	48219	0.084	VV	0.08
66	12.01		0.00	0.000	22302	0.039	VV	0.04
67	12.11	DBHC	0.07	9.460	909641	1.576	VV	0.05
68	12.22	HPCL	0.08	10.921	586268	1.016	VV	0.05
69	12.58		0.00	0.000	36192	0.063	VV	0.11
70	12.94	ALDRN	0.06	8.365	1002829	1.738	VV	0.05
71	13.27		0.00	0.000	3898	0.007	VB	0.06
72	13.40		0.00	0.000	722	0.001	BB	0.06
73	13.70		0.00	0.000	13329	0.023	BV	0.05
74	13.91		0.00	0.000	18164	0.031	VV	0.07
75	14.02		0.00	0.000	14295	0.025	VV	0.06
76	14.15	HPCLE	0.07	9.678	850847	1.474	VV	0.05
77	14.51		0.00	0.000	65191	0.113	VV	0.09
78	14.77		0.00	0.000	86143	0.149	VV	0.05
79	15.00		0.00	0.000	31579	0.055	VV	0.11
80	15.17		0.00	0.000	74414	0.129	VV	0.09
81	15.45		0.00	0.000	48269	0.084	VV	0.15
82	15.69		0.00	0.000	22993	0.040	VB	0.13
83	15.84		0.00	0.000	7928	0.014	BV	0.08
84	16.16		0.00	0.000	80710	0.140	VV	0.05
85	16.54		0.00	0.000	95346	0.165	VV	0.16
86	16.69		0.00	0.000	14786	0.026	VV	0.06
87	16.92	PPDDT *	0.07	9.680	471888	0.818	VV	0.05
88	17.16		0.00	0.000	47823	0.083	VV	0.06
89	17.49		0.00	0.000	29146	0.050	VB	0.10
90	18.14		0.00	0.000	45181	0.078	BV	0.09
91	18.33		0.00	0.000	18480	0.032	VV	0.06
92	18.59		0.00	0.000	8288	0.014	VV	0.15
93	18.74		0.00	0.000	5738	0.010	VB	0.06
94	19.42		0.00	0.000	2646	0.005	BB	0.14
95	19.93		0.00	0.000	80017	0.139	BV	0.32
96	20.17		0.00	0.000	37263	0.065	VV	0.10
97	20.42		0.00	0.000	13527	0.023	VB	0.11
98	20.90		0.00	0.000	46412	0.080	BV	0.23
99	21.18		0.00	0.000	40003	0.069	VV	0.23
100	21.40		0.00	0.000	5401	0.009	VB	0.10
101	21.83		0.00	0.000	2861	0.005	BV	0.10
102	22.01		0.00	0.000	2845	0.005	VB	0.09
103	22.28		0.00	0.000	3949	0.007	BV	0.12
104	22.83	CL10BP	0.09	12.162	1183770	2.051	VV	0.08
105	23.69		0.00	0.000	18416	0.032	VB	0.10

Total Area = 5.771452E+07 Total Height = 9136513 Total Amount = 0.7562346

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-05MD B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0014.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 6:46:27 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 10
Calibration Date = 4/30/14 1:18:33 PM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD
8.78	CL4XYL	1032463	13470371	0.077	76.6	30.659	
10.35	ABHC	1161739	15896177	0.073	73.1	29.233	
11.21	LINDANE	952162	13048558	0.073	73.0	29.188	
11.43	BBHC	573480	7372642	0.078	77.8	31.114	
12.11	DBHC	909641	12715453	0.072	71.5	28.615	
12.22	HPCL	586268	7098509	0.083	82.6	33.036	
12.94	ALDRN	1002829	15852767	0.063	63.3	25.304	
14.15	HPCLE	850847	11625932	0.073	73.2	29.274	
16.92	PPDDT *	471888	6988384	0.073	73.2	29.281	
22.83	CL10BP	1183770	12870687	0.092	92.0	36.790	

* Linear regression

Checked By: TRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

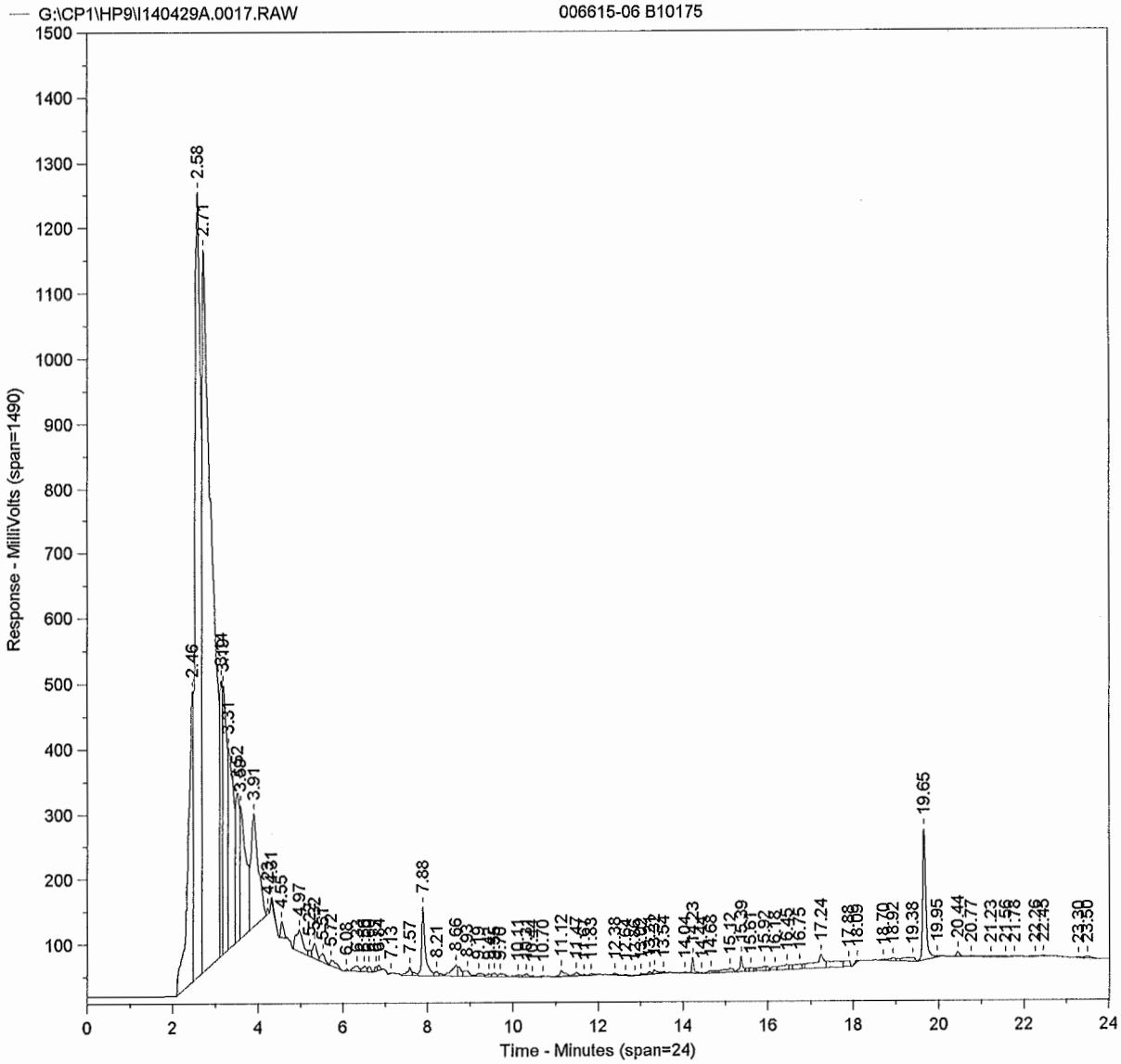
Field ID:	MAK117C	ARDL Lab No.:	006615-06
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1435	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.04 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.97	3.97	ND		UG/KG	1
gamma-BHC (Lindane)	3.97	3.97	ND		UG/KG	1
delta-BHC	3.97	3.97	ND		UG/KG	1
Heptachlor	3.97	3.97	ND		UG/KG	1
Aldrin	3.97	3.97	ND		UG/KG	1
Heptachlor Epoxide	3.97	3.97	ND		UG/KG	1
p,p'-DDT	3.97	3.97	ND		UG/KG	1
beta-BHC	3.97	3.97	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	69%
Decachlorobiphenyl	25-125	86%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-06, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0017.RAW
006615-06 B10175
Response - MiliVolts (span=1490)
Time - Minutes (span=24)
2.46
2.58
2.71
3.31
3.91
7.88
19.65

Primary

Sample Name = **006615-06 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0017.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 8:08:32 PM
Method Version = 211
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.46		0.00	0.000	3635322	7.208	BV	0.12
2	2.58		0.00	0.000	11227931	22.263	VV	0.16
3	2.71		0.00	0.000	17882344	35.458	VV	0.17
4	3.14		0.00	0.000	1894030	3.756	VV	0.05
5	3.19		0.00	0.000	2617280	5.190	VV	0.06
6	3.31		0.00	0.000	2604042	5.163	VV	0.10
7	3.52		0.00	0.000	1439356	2.854	VV	0.07
8	3.59		0.00	0.000	1998333	3.962	VV	0.09
9	3.91		0.00	0.000	2059011	4.083	VV	0.18
10	4.23		0.00	0.000	25538	0.051	VB	0.04
11	4.31		0.00	0.000	30238	0.060	BB	0.07
12	4.55		0.00	0.000	117766	0.234	BB	0.08
13	4.97		0.00	0.000	378707	0.751	BV	0.20
14	5.22		0.00	0.000	44565	0.088	VV	0.06
15	5.32		0.00	0.000	140727	0.279	VV	0.11
16	5.51		0.00	0.000	91303	0.181	VB	0.14
17	5.72		0.00	0.000	95695	0.190	BB	0.21
18	6.08		0.00	0.000	8834	0.018	BB	0.05
19	6.33		0.00	0.000	81146	0.161	BV	0.18
20	6.50		0.00	0.000	53745	0.107	VV	0.06
21	6.60		0.00	0.000	42913	0.085	VB	0.10
22	6.77		0.00	0.000	27059	0.054	BV	0.06
23	6.84		0.00	0.000	30671	0.061	VB	0.07
24	7.13		0.00	0.000	4585	0.009	BB	0.07
25	7.57		0.00	0.000	77543	0.154	BV	0.08
26	7.88	CL4XYL	0.07	44.300	631251	1.252	VV	0.07
27	8.21		0.00	0.000	37700	0.075	VV	0.07
28	8.66		0.00	0.000	165040	0.327	VV	0.14
29	8.93		0.00	0.000	83687	0.166	VV	0.16
30	9.19		0.00	0.000	42747	0.085	VV	0.12
31	9.42		0.00	0.000	26551	0.053	VV	0.06
32	9.55		0.00	0.000	33900	0.067	VV	0.07
33	9.70		0.00	0.000	43575	0.086	VV	0.18
34	10.11		0.00	0.000	29666	0.059	VV	0.15
35	10.31		0.00	0.000	31883	0.063	VV	0.12
36	10.44		0.00	0.000	6982	0.014	VB	0.08
37	10.70		0.00	0.000	10711	0.021	BB	0.15
38	11.12		0.00	0.000	76928	0.153	BV	0.16
39	11.47		0.00	0.000	41688	0.083	VV	0.10
40	11.67		0.00	0.000	7558	0.015	VB	0.10
41	11.83		0.00	0.000	11949	0.024	BB	0.15
42	12.38		0.00	0.000	17603	0.035	BV	0.09
43	12.64		0.00	0.000	8393	0.017	VB	0.17
44	12.86		0.00	0.000	2957	0.006	BB	0.12
45	13.02	HPCLE	0.00	0.521	8340	0.017	BV	0.08
46	13.21		0.00	0.000	20300	0.040	VV	0.07
47	13.32		0.00	0.000	40414	0.080	VV	0.08
48	13.54		0.00	0.000	7811	0.015	VB	0.06
49	14.04		0.00	0.000	7927	0.016	BV	0.06
50	14.23		0.00	0.000	81785	0.162	VV	0.05
51	14.44		0.00	0.000	2923	0.006	VB	0.05
52	14.68		0.00	0.000	38874	0.077	BV	0.18

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	15.12		0.00	0.000	92898	0.184	VV	0.30
54	15.39		0.00	0.000	102874	0.204	VV	0.05
55	15.61		0.00	0.000	34080	0.068	VV	0.05
56	15.92		0.00	0.000	68900	0.137	VV	0.08
57	16.18		0.00	0.000	45166	0.090	VV	0.14
58	16.45		0.00	0.000	98503	0.195	VV	0.17
59	16.75		0.00	0.000	93548	0.185	VV	0.13
60	17.24		0.00	0.000	315201	0.625	VV	0.09
61	17.88		0.00	0.000	82546	0.164	VB	0.16
62	18.09		0.00	0.000	20098	0.040	BB	0.12
63	18.70		0.00	0.000	14642	0.029	BV	0.15
64	18.92		0.00	0.000	37997	0.075	VV	0.11
65	19.38		0.00	0.000	100460	0.199	VB	0.36
66	19.65	CL10BP	0.09	55.179	1025057	2.033	BV	0.07
67	19.95		0.00	0.000	15283	0.030	VB	0.10
68	20.44		0.00	0.000	37561	0.074	BV	0.07
69	20.77		0.00	0.000	9576	0.019	VV	0.13
70	21.23		0.00	0.000	24547	0.049	VV	0.47
71	21.56		0.00	0.000	7537	0.015	VB	0.15
72	21.78		0.00	0.000	5841	0.012	BB	0.21
73	22.26		0.00	0.000	14770	0.029	BV	0.23
74	22.45		0.00	0.000	11174	0.022	VB	0.09
75	23.30		0.00	0.000	9038	0.018	BV	0.10
76	23.50		0.00	0.000	38009	0.075	VB	0.24

Total Area = 5.043314E+07 Total Height = 5246107 Total Amount = 0.1550406

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-06 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0017.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 8:08:32 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:39:11 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

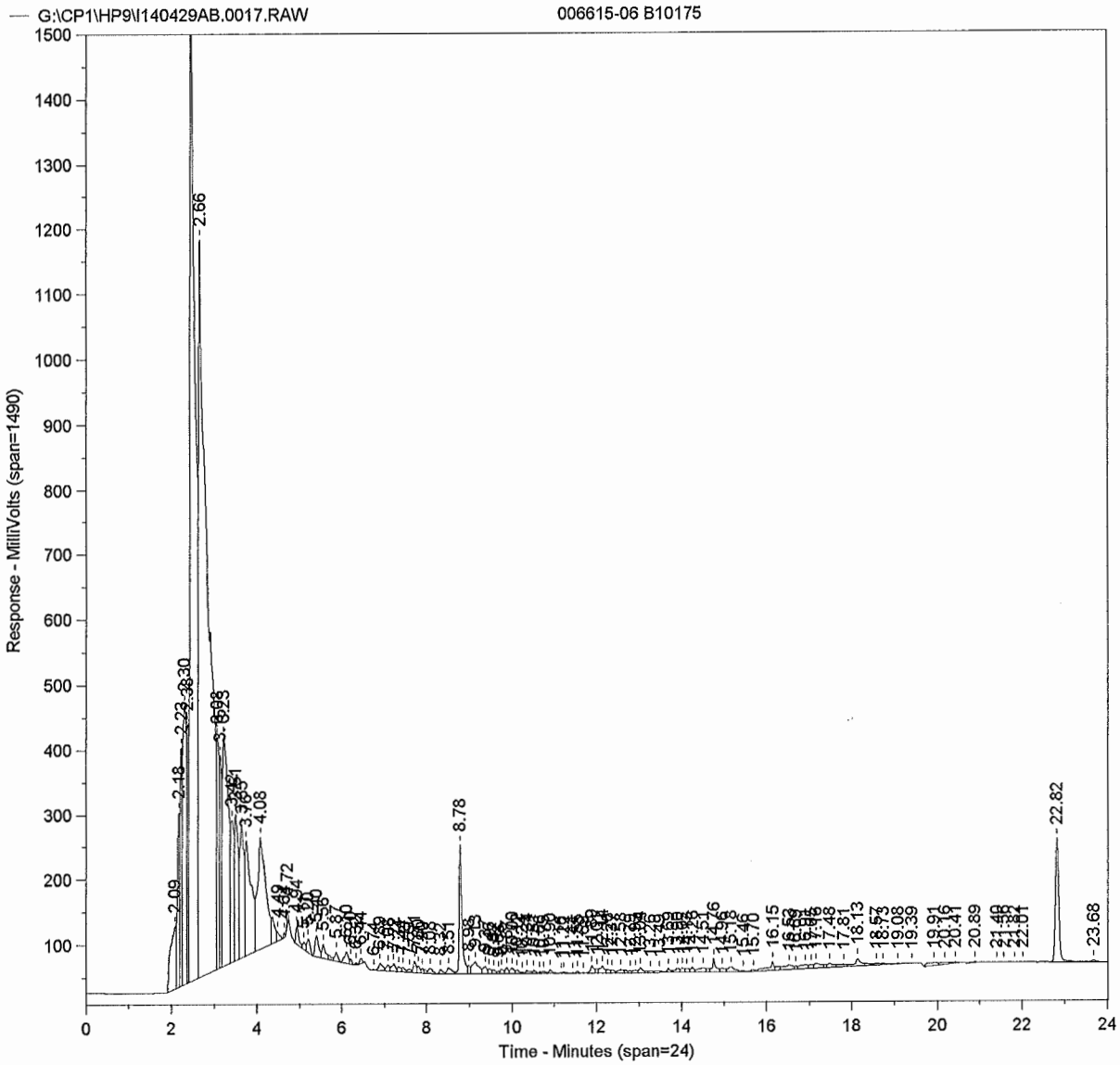
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.88	CL4XYL	631251	9190794	0.069	68.7	27.473		
13.02	HPCLE	8340	10323798	0.001	0.8	0.323		UNDER
19.65	CL10BP	1025057	11981994	0.086	85.5	34.220		

* Linear regression

Checked By: DRC Date: 4/30/14


G:\CP1\HP9\I140429AB.0017.RAW
006615-06 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.66
8.78
22.82
23.68
4.08
2.09
2.18
2.30
2.23
3.65
3.76
4.72
4.49
15.46
15.70
16.15
17.81
18.13
18.57
19.08
19.39
19.91
20.41
20.89
21.48
21.82
22.01

Sample Name = **006615-06 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0017.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 8:08:32 PM
Method Version = 201
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	808852	1.426	BV	0.16
2	2.18		0.00	0.000	1048156	1.848	VV	0.05
3	2.23		0.00	0.000	984611	1.736	VV	0.03
4	2.30		0.00	0.000	2637674	4.651	VV	0.08
5	2.38		0.00	0.000	1176361	2.074	VV	0.04
6	2.46		0.00	0.000	13271274	23.403	VV	0.11
7	2.66		0.00	0.000	16860710	29.733	VV	0.17
8	3.08		0.00	0.000	1444497	2.547	VV	0.05
9	3.15		0.00	0.000	1182863	2.086	VV	0.04
10	3.23		0.00	0.000	3324617	5.863	VV	0.12
11	3.42		0.00	0.000	1141543	2.013	VV	0.07
12	3.51		0.00	0.000	1400872	2.470	VV	0.07
13	3.65		0.00	0.000	1380989	2.435	VV	0.07
14	3.76		0.00	0.000	1770293	3.122	VV	0.10
15	4.08		0.00	0.000	2292695	4.043	VV	0.15
16	4.49		0.00	0.000	63160	0.111	VB	0.05
17	4.64		0.00	0.000	16481	0.029	BB	0.05
18	4.72		0.00	0.000	62105	0.110	BB	0.05
19	4.94		0.00	0.000	130982	0.231	BV	0.07
20	5.11		0.00	0.000	51358	0.091	VV	0.04
21	5.20		0.00	0.000	109672	0.193	VB	0.10
22	5.40		0.00	0.000	193339	0.341	BV	0.09
23	5.56		0.00	0.000	118479	0.209	VV	0.07
24	5.87		0.00	0.000	69543	0.123	VB	0.09
25	6.10		0.00	0.000	105030	0.185	BV	0.09
26	6.20		0.00	0.000	26868	0.047	VB	0.06
27	6.32		0.00	0.000	8023	0.014	BB	0.06
28	6.44		0.00	0.000	30818	0.054	BB	0.08
29	6.74		0.00	0.000	5182	0.009	BV	0.04
30	6.89		0.00	0.000	79775	0.141	VV	0.12
31	7.08		0.00	0.000	57567	0.102	VV	0.08
32	7.22		0.00	0.000	74565	0.131	VV	0.10
33	7.34		0.00	0.000	42732	0.075	VV	0.09
34	7.44		0.00	0.000	37669	0.066	VV	0.08
35	7.59		0.00	0.000	28152	0.050	VV	0.07
36	7.71		0.00	0.000	81410	0.144	VV	0.07
37	7.80		0.00	0.000	44175	0.078	VV	0.06
38	7.90		0.00	0.000	26656	0.047	VV	0.04
39	8.08		0.00	0.000	50629	0.089	VB	0.12
40	8.32		0.00	0.000	32831	0.058	BV	0.08
41	8.51		0.00	0.000	70037	0.124	VV	0.10
42	8.78	CL4XYL	0.06	38.162	871537	1.537	VV	0.06
43	8.98		0.00	0.000	46831	0.083	VV	0.04
44	9.13		0.00	0.000	191498	0.338	VV	0.13
45	9.37		0.00	0.000	68469	0.121	VV	0.07
46	9.46		0.00	0.000	36837	0.065	VV	0.05
47	9.57		0.00	0.000	29917	0.053	VV	0.08
48	9.68		0.00	0.000	11254	0.020	VV	0.04
49	9.75		0.00	0.000	34437	0.061	VV	0.06
50	9.87		0.00	0.000	42152	0.074	VV	0.05
51	10.00		0.00	0.000	47369	0.084	VV	0.06
52	10.12		0.00	0.000	28766	0.051	VV	0.09

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	10.24		0.00	0.000	7395	0.013	VV	0.06
54	10.34	ABHC	0.00	1.116	30068	0.053	VV	0.11
55	10.51		0.00	0.000	21282	0.038	VV	0.08
56	10.66		0.00	0.000	6484	0.011	VV	0.05
57	10.75		0.00	0.000	16194	0.029	VV	0.08
58	10.90		0.00	0.000	23921	0.042	VB	0.08
59	11.16		0.00	0.000	3377	0.006	BV	0.05
60	11.22	LINDANE	0.00	0.281	6216	0.011	VB	0.07
61	11.44	BBHC	0.00	0.279	3481	0.006	BV	0.04
62	11.55		0.00	0.000	15232	0.027	VV	0.06
63	11.69		0.00	0.000	5492	0.010	VV	0.06
64	11.89		0.00	0.000	67168	0.118	VV	0.10
65	12.01		0.00	0.000	30024	0.053	VV	0.04
66	12.14	DBHC	0.01	3.766	81191	0.143	VV	0.05
67	12.26		0.00	0.000	31945	0.056	VV	0.05
68	12.37		0.00	0.000	25932	0.046	VV	0.08
69	12.58		0.00	0.000	46301	0.082	VV	0.14
70	12.79		0.00	0.000	15617	0.028	VV	0.05
71	12.92	ALDRN	0.00	1.101	29602	0.052	VV	0.10
72	13.04		0.00	0.000	44110	0.078	VV	0.07
73	13.26		0.00	0.000	16348	0.029	VV	0.07
74	13.49		0.00	0.000	29266	0.052	VV	0.17
75	13.69		0.00	0.000	28187	0.050	VV	0.05
76	13.90		0.00	0.000	42269	0.075	VV	0.09
77	14.02		0.00	0.000	37213	0.066	VV	0.09
78	14.13	HPCLE	0.00	2.025	39915	0.070	VV	0.08
79	14.26		0.00	0.000	37843	0.067	VV	0.06
80	14.51		0.00	0.000	82476	0.145	VV	0.16
81	14.76		0.00	0.000	114726	0.202	VV	0.04
82	14.96		0.00	0.000	40236	0.071	VV	0.07
83	15.18		0.00	0.000	86101	0.152	VV	0.19
84	15.46		0.00	0.000	6730	0.012	VB	0.09
85	15.70		0.00	0.000	15153	0.027	BV	0.11
86	16.15		0.00	0.000	112133	0.198	VV	0.06
87	16.53		0.00	0.000	97802	0.172	VV	0.13
88	16.69		0.00	0.000	18553	0.033	VV	0.04
89	16.91	PPDDT *	0.01	5.388	71447	0.126	VV	0.19
90	17.05		0.00	0.000	35797	0.063	VV	0.07
91	17.16		0.00	0.000	76923	0.136	VV	0.09
92	17.48		0.00	0.000	59185	0.104	VV	0.07
93	17.81		0.00	0.000	50168	0.088	VV	0.20
94	18.13		0.00	0.000	85814	0.151	VV	0.08
95	18.57		0.00	0.000	18550	0.033	VV	0.14
96	18.73		0.00	0.000	14607	0.026	VV	0.07
97	19.08		0.00	0.000	2585	0.005	VB	0.07
98	19.39		0.00	0.000	2954	0.005	BB	0.11
99	19.91		0.00	0.000	81188	0.143	BV	0.31
100	20.16		0.00	0.000	39793	0.070	VV	0.10
101	20.41		0.00	0.000	15435	0.027	VB	0.12
102	20.89		0.00	0.000	11951	0.021	BB	0.22
103	21.40		0.00	0.000	1885	0.003	BV	0.08
104	21.56		0.00	0.000	4893	0.009	VV	0.16
105	21.82		0.00	0.000	3641	0.006	VV	0.11
106	22.01		0.00	0.000	2165	0.004	VB	0.07
107	22.82	CL10BP	0.08	47.882	1044828	1.842	BV	0.08
108	23.68		0.00	0.000	15481	0.027	VB	0.09

Total Area = 5.670757E+07 Total Height = 7316316 Total Amount = 0.1695396

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-06 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0017.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 8:08:32 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:41:58 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.78	CL4XYL	871537	13470371	0.065	64.7	25.880		
10.34	ABHC	30068	15896177	0.002	1.9	0.757		UNDER
11.22	LINDANE	6216	13048558	0.000	0.5	0.191		UNDER
11.44	BBHC	3481	7372642	0.000	0.5	0.189		UNDER
12.14	DBHC	81191	12715453	0.006	6.4	2.554		UNDER
12.92	ALDRN	29602	15852767	0.002	1.9	0.747		UNDER
14.13	HPCLE	39915	11625932	0.003	3.4	1.373		UNDER
16.91	PPDDT *	71447	6988384	0.009	9.1	3.654		UNDER
22.82	CL10BP	1044828	12870687	0.081	81.2	32.472		

* Linear regression

Checked By: TRC Date: 4/30/14

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

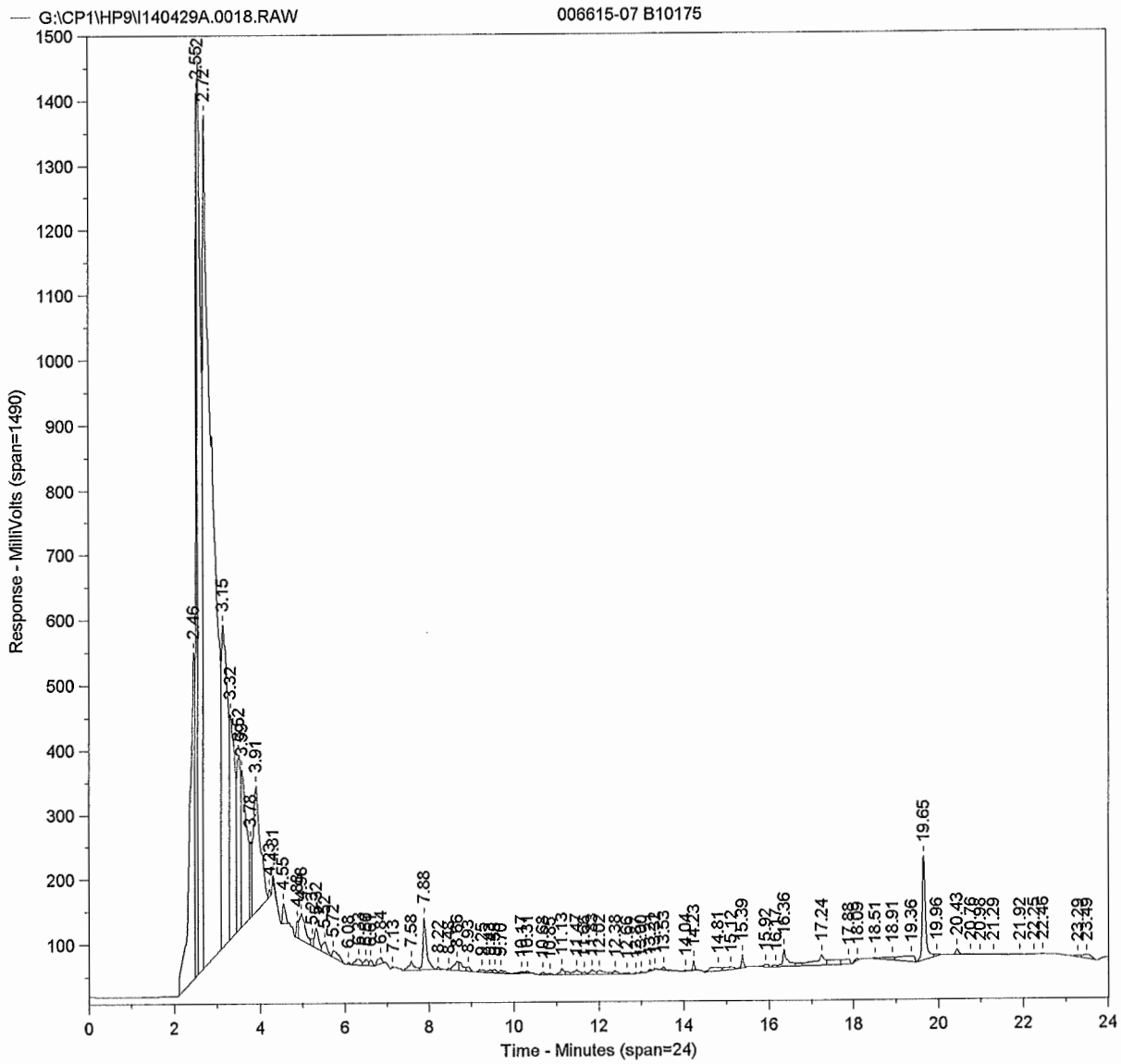
Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

Field ID:	MAK118C	ARDL Lab No.:	006615-07
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	01/31/2014	Received Date:	03/14/2014
Sample Time:	1605	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5.03 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	3.98	3.98	ND		UG/KG	1
gamma-BHC (Lindane)	3.98	3.98	ND		UG/KG	1
delta-BHC	3.98	3.98	ND		UG/KG	1
Heptachlor	3.98	3.98	ND		UG/KG	1
Aldrin	3.98	3.98	ND		UG/KG	1
Heptachlor Epoxide	3.98	3.98	ND		UG/KG	1
p,p'-DDT	3.98	3.98	ND		UG/KG	1
beta-BHC	3.98	3.98	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	51%
Decachlorobiphenyl	25-125	70%

Surrogate recoveries marked with '*' indicates they are outside standard limits.


G:\CP1\HP9\I140429A.0018.RAW
006615-07 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.46
2.552
2.72
3.15
3.32
3.91
4.55
7.13
7.58
7.88
14.23
14.81
15.12
15.39
16.36
17.24
18.51
18.91
19.36
19.65
19.96
20.43
21.29
21.92
22.45
23.29
23.49

Primary

Sample Name = **006615-07 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0018.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 8:35:52 PM
Method Version = 211
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.46		0.00	0.000	4136919	7.410	BV	0.13
2	2.55		0.00	0.000	3855928	6.907	VV	0.03
3	2.59		0.00	0.000	8603530	15.410	VV	0.06
4	2.72		0.00	0.000	19965130	35.761	VV	0.15
5	3.15		0.00	0.000	5008921	8.972	VV	0.12
6	3.32		0.00	0.000	2960083	5.302	VV	0.11
7	3.52		0.00	0.000	1685239	3.019	VV	0.07
8	3.59		0.00	0.000	2019513	3.617	VV	0.09
9	3.78		0.00	0.000	344787	0.618	VV	0.03
10	3.91		0.00	0.000	2250122	4.030	VV	0.17
11	4.23		0.00	0.000	35574	0.064	VB	0.04
12	4.31		0.00	0.000	40358	0.072	BB	0.08
13	4.55		0.00	0.000	141786	0.254	BB	0.08
14	4.88		0.00	0.000	79768	0.143	BV	0.05
15	4.98		0.00	0.000	396280	0.710	VV	0.16
16	5.23		0.00	0.000	51146	0.092	VV	0.07
17	5.32		0.00	0.000	189919	0.340	VV	0.10
18	5.52		0.00	0.000	126637	0.227	VV	0.15
19	5.72		0.00	0.000	116293	0.208	VB	0.21
20	6.08		0.00	0.000	10024	0.018	BB	0.06
21	6.33		0.00	0.000	90607	0.162	BV	0.18
22	6.50		0.00	0.000	55184	0.099	VV	0.06
23	6.61		0.00	0.000	40980	0.073	VB	0.09
24	6.84		0.00	0.000	67435	0.121	BB	0.14
25	7.13		0.00	0.000	5934	0.011	BB	0.08
26	7.58		0.00	0.000	117845	0.211	BV	0.11
27	7.88	CL4XYL	0.05	37.042	467025	0.837	VV	0.08
28	8.22		0.00	0.000	14136	0.025	VB	0.06
29	8.48		0.00	0.000	10930	0.020	BV	0.06
30	8.66		0.00	0.000	104935	0.188	VV	0.10
31	8.93		0.00	0.000	37699	0.068	VB	0.10
32	9.25	ABHC *	0.02	11.784	30525	0.055	BV	0.14
33	9.43		0.00	0.000	30113	0.054	VV	0.06
34	9.55		0.00	0.000	29780	0.053	VV	0.09
35	9.70		0.00	0.000	39712	0.071	VB	0.18
36	10.17		0.00	0.000	23431	0.042	BV	0.15
37	10.31		0.00	0.000	17156	0.031	VB	0.10
38	10.68		0.00	0.000	21004	0.038	BV	0.09
39	10.85		0.00	0.000	8553	0.015	VB	0.09
40	11.13		0.00	0.000	56118	0.101	BV	0.12
41	11.47		0.00	0.000	65789	0.118	VV	0.10
42	11.66		0.00	0.000	19569	0.035	VV	0.09
43	11.83		0.00	0.000	53987	0.097	VV	0.12
44	12.02		0.00	0.000	64040	0.115	VV	0.12
45	12.38		0.00	0.000	34374	0.062	VV	0.11
46	12.66		0.00	0.000	17827	0.032	VB	0.16
47	12.87		0.00	0.000	3290	0.006	BB	0.10
48	13.00	HPCLE	0.00	0.410	5808	0.010	BB	0.07
49	13.21		0.00	0.000	12008	0.022	BB	0.10
50	13.32		0.00	0.000	4265	0.008	BB	0.05
51	13.53		0.00	0.000	21270	0.038	BB	0.08
52	14.04		0.00	0.000	3812	0.007	BB	0.05

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	14.23		0.00	0.000	40317	0.072	BB	0.04
54	14.81		0.00	0.000	107431	0.192	BV	0.32
55	15.12		0.00	0.000	70525	0.126	VB	0.30
56	15.39		0.00	0.000	63351	0.113	BB	0.05
57	15.92		0.00	0.000	33191	0.059	BB	0.22
58	16.17		0.00	0.000	21150	0.038	BV	0.14
59	16.36		0.00	0.000	195980	0.351	VV	0.06
60	17.24		0.00	0.000	243245	0.436	VV	0.10
61	17.88		0.00	0.000	100420	0.180	VB	0.24
62	18.09		0.00	0.000	19756	0.035	BB	0.13
63	18.51		0.00	0.000	11094	0.020	BV	0.13
64	18.91		0.00	0.000	72805	0.130	VV	0.32
65	19.36		0.00	0.000	196157	0.351	VB	0.47
66	19.65	CL10BP	0.07	50.764	834414	1.495	BV	0.07
67	19.96		0.00	0.000	20208	0.036	VB	0.10
68	20.43		0.00	0.000	40706	0.073	BV	0.07
69	20.76		0.00	0.000	15337	0.027	VB	0.25
70	20.98		0.00	0.000	4845	0.009	BV	0.15
71	21.29		0.00	0.000	8938	0.016	VV	0.21
72	21.92		0.00	0.000	12584	0.023	VB	0.28
73	22.25		0.00	0.000	11815	0.021	BV	0.27
74	22.46		0.00	0.000	8301	0.015	VB	0.08
75	23.29		0.00	0.000	23825	0.043	BV	0.14
76	23.49		0.00	0.000	80291	0.144	VB	0.25

Total Area = 5.582978E+07 Total Height = 6968093 Total Amount = 0.1371817

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-07 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0018.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 8:35:52 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:39:11 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

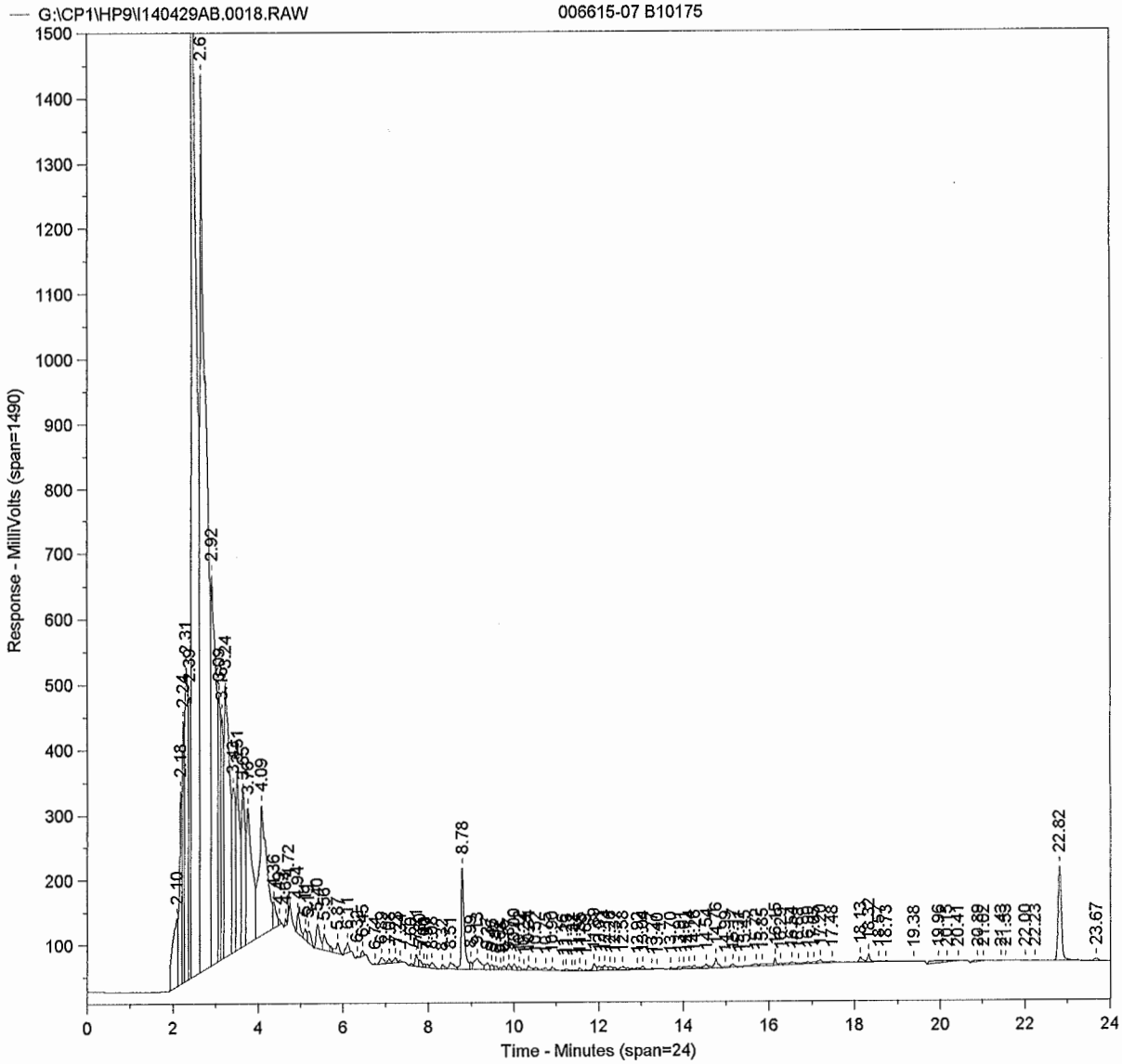
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.88	CL4XYL	467025	9190794	0.051	50.8	20.326		
9.25	ABHC *	30525	10460059	0.016	16.2	6.466		
13.00	HPCLE	5808	10323798	0.001	0.6	0.225		UNDER
19.65	CL10BP	834414	11981994	0.070	69.6	27.856		

* Linear regression

Checked By: KPC Date: 4/30/14


G:\CP1\HP9\I140429AB.0018.RAW
006615-07 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.6
2.92
3.31
2.39
2.24
2.18
2.10
4.09
8.78
22.82
23.67
19.38

Sample Name = **006615-07 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0018.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 8:35:52 PM
Method Version = 201
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.10		0.00	0.000	897028	1.452	BV	0.15
2	2.18		0.00	0.000	1161311	1.880	VV	0.05
3	2.24		0.00	0.000	1066989	1.728	VV	0.03
4	2.31		0.00	0.000	2890634	4.681	VV	0.08
5	2.39		0.00	0.000	1284207	2.079	VV	0.04
6	2.47		0.00	0.000	14814463	23.988	VV	0.08
7	2.67		0.00	0.000	13881853	22.478	VV	0.07
8	2.92		0.00	0.000	5046743	8.172	VV	0.09
9	3.09		0.00	0.000	1640995	2.657	VV	0.05
10	3.16		0.00	0.000	1347715	2.182	VV	0.04
11	3.24		0.00	0.000	3747979	6.069	VV	0.10
12	3.43		0.00	0.000	1360206	2.202	VV	0.07
13	3.51		0.00	0.000	1601259	2.593	VV	0.06
14	3.65		0.00	0.000	1484397	2.404	VV	0.06
15	3.76		0.00	0.000	1962853	3.178	VV	0.11
16	4.09		0.00	0.000	2518492	4.078	VV	0.14
17	4.36		0.00	0.000	202797	0.328	VV	0.07
18	4.49		0.00	0.000	22831	0.037	VB	0.04
19	4.64		0.00	0.000	24700	0.040	BB	0.04
20	4.72		0.00	0.000	75415	0.122	BB	0.05
21	4.94		0.00	0.000	164420	0.266	BV	0.07
22	5.11		0.00	0.000	75007	0.121	VV	0.04
23	5.19		0.00	0.000	109476	0.177	VB	0.10
24	5.40		0.00	0.000	235419	0.381	BV	0.10
25	5.56		0.00	0.000	152882	0.248	VV	0.07
26	5.87		0.00	0.000	100650	0.163	VB	0.15
27	6.11		0.00	0.000	82543	0.134	BB	0.09
28	6.32		0.00	0.000	8085	0.013	BB	0.06
29	6.45		0.00	0.000	33996	0.055	BB	0.08
30	6.74		0.00	0.000	4242	0.007	BB	0.04
31	6.89		0.00	0.000	69837	0.113	BV	0.12
32	7.08		0.00	0.000	39451	0.064	VV	0.08
33	7.23		0.00	0.000	41255	0.067	VV	0.07
34	7.34		0.00	0.000	11298	0.018	VB	0.05
35	7.60		0.00	0.000	12902	0.021	BV	0.07
36	7.71		0.00	0.000	80215	0.130	VV	0.07
37	7.80		0.00	0.000	43466	0.070	VV	0.06
38	7.90		0.00	0.000	19603	0.032	VV	0.05
39	7.97		0.00	0.000	21504	0.035	VV	0.06
40	8.08		0.00	0.000	56041	0.091	VB	0.13
41	8.32		0.00	0.000	33939	0.055	BV	0.08
42	8.51		0.00	0.000	81160	0.131	VV	0.11
43	8.78	CL4XYL	0.05	42.957	729104	1.181	VV	0.06
44	8.99		0.00	0.000	43719	0.071	VV	0.04
45	9.13		0.00	0.000	188763	0.306	VV	0.13
46	9.37		0.00	0.000	64634	0.105	VV	0.07
47	9.46		0.00	0.000	35914	0.058	VV	0.05
48	9.57		0.00	0.000	29960	0.049	VV	0.08
49	9.68		0.00	0.000	11505	0.019	VV	0.05
50	9.75		0.00	0.000	28794	0.047	VV	0.06
51	9.87		0.00	0.000	41819	0.068	VV	0.05
52	10.00		0.00	0.000	44898	0.073	VV	0.06

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	10.12		0.00	0.000	26142	0.042	VV	0.09
54	10.24		0.00	0.000	5430	0.009	VV	0.04
55	10.34	ABHC	0.00	1.832	36702	0.059	VV	0.06
56	10.52		0.00	0.000	20515	0.033	VV	0.08
57	10.75		0.00	0.000	23323	0.038	VV	0.14
58	10.90		0.00	0.000	23732	0.038	VB	0.09
59	11.16		0.00	0.000	4280	0.007	BV	0.05
60	11.23	LINDANE	0.00	0.832	13687	0.022	VV	0.08
61	11.37		0.00	0.000	3081	0.005	VV	0.04
62	11.44	BBHC	0.00	0.454	4219	0.007	VV	0.04
63	11.55		0.00	0.000	16080	0.026	VB	0.06
64	11.69		0.00	0.000	3887	0.006	BV	0.05
65	11.89		0.00	0.000	54456	0.088	VV	0.09
66	12.01		0.00	0.000	31042	0.050	VV	0.05
67	12.14		0.00	0.000	39823	0.064	VV	0.04
68	12.26		0.00	0.000	29753	0.048	VV	0.07
69	12.37		0.00	0.000	17685	0.029	VV	0.07
70	12.58		0.00	0.000	36709	0.059	VV	0.15
71	12.92	ALDRN	0.00	0.741	14799	0.024	VV	0.11
72	13.04		0.00	0.000	22220	0.036	VB	0.07
73	13.27		0.00	0.000	7997	0.013	BV	0.11
74	13.40		0.00	0.000	2874	0.005	VB	0.05
75	13.70		0.00	0.000	9360	0.015	BV	0.06
76	13.91		0.00	0.000	25343	0.041	VV	0.10
77	14.01		0.00	0.000	11051	0.018	VV	0.05
78	14.14	HPCLE	0.00	2.048	30003	0.049	VV	0.08
79	14.26		0.00	0.000	26995	0.044	VV	0.06
80	14.54		0.00	0.000	35980	0.058	VV	0.07
81	14.76		0.00	0.000	78925	0.128	VB	0.06
82	14.99		0.00	0.000	8118	0.013	BV	0.12
83	15.17		0.00	0.000	29149	0.047	VV	0.09
84	15.31		0.00	0.000	3895	0.006	VV	0.07
85	15.45		0.00	0.000	3782	0.006	VV	0.06
86	15.72		0.00	0.000	24433	0.040	VV	0.13
87	15.85		0.00	0.000	26262	0.043	VV	0.15
88	16.15		0.00	0.000	54297	0.088	VV	0.04
89	16.29		0.00	0.000	13413	0.022	VV	0.04
90	16.54		0.00	0.000	43372	0.070	VV	0.12
91	16.68		0.00	0.000	6661	0.011	VV	0.06
92	16.90	PPDDT *	0.00	1.453	25795	0.042	VV	0.19
93	17.05		0.00	0.000	16057	0.026	VV	0.07
94	17.20		0.00	0.000	32313	0.052	VV	0.07
95	17.48		0.00	0.000	18683	0.030	VB	0.10
96	18.13		0.00	0.000	40121	0.065	BV	0.09
97	18.32		0.00	0.000	47575	0.077	VV	0.05
98	18.57		0.00	0.000	7314	0.012	VV	0.14
99	18.73		0.00	0.000	4709	0.008	VB	0.07
100	19.38		0.00	0.000	2778	0.004	BB	0.10
101	19.96		0.00	0.000	70320	0.114	BV	0.33
102	20.15		0.00	0.000	24708	0.040	VV	0.10
103	20.41		0.00	0.000	4182	0.007	VB	0.09
104	20.89		0.00	0.000	25289	0.041	BV	0.23
105	21.02		0.00	0.000	4128	0.007	VB	0.10
106	21.43		0.00	0.000	1329	0.002	BV	0.12
107	21.53		0.00	0.000	1084	0.002	VB	0.11
108	22.00		0.00	0.000	1680	0.003	BB	0.09
109	22.23		0.00	0.000	3390	0.005	BB	0.13
110	22.82	CL10BP	0.06	49.682	805703	1.305	BV	0.08
111	23.67		0.00	0.000	22727	0.037	VB	0.09

Total Area = 6.175873E+07 Total Height = 8994358 Total Amount = 0.1260012

Chrom Perfect Chromatogram Report

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-07 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0018.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 8:35:52 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:41:58 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.78	CL4XYL	729104	13470371	0.054	54.1	21.651		
10.34	ABHC	36702	15896177	0.002	2.3	0.924		UNDER
11.23	LINDANE	13687	13048558	0.001	1.0	0.420		UNDER
11.44	BBHC	4219	7372642	0.001	0.6	0.229		UNDER
12.92	ALDRN	14799	15852767	0.001	0.9	0.373		UNDER
14.14	HPCLE	30003	11625932	0.003	2.6	1.032		UNDER
16.90	PPDDT *	25795	6988384	0.002	1.8	0.732		UNDER
22.82	CL10BP	805703	12870687	0.063	62.6	25.040		

* Linear regression

Checked By: TRC Date: 4/30/14

Printed on 4/30/14 10:59:56 AM

ARDL, INC.
400 Aviation Drive; P.O. Box 1566
Mt. Vernon, Illinois 62864

Lab Report No: 006615 Report Date: 05/01/2014

Project Name: MAKAU MILITARY RES O Analysis: CHLORINATED PESTICIDES (8081)
Project No.: Analytical Method: 8081B
NELAC Certified - IL100308 Prep Method: 3550A

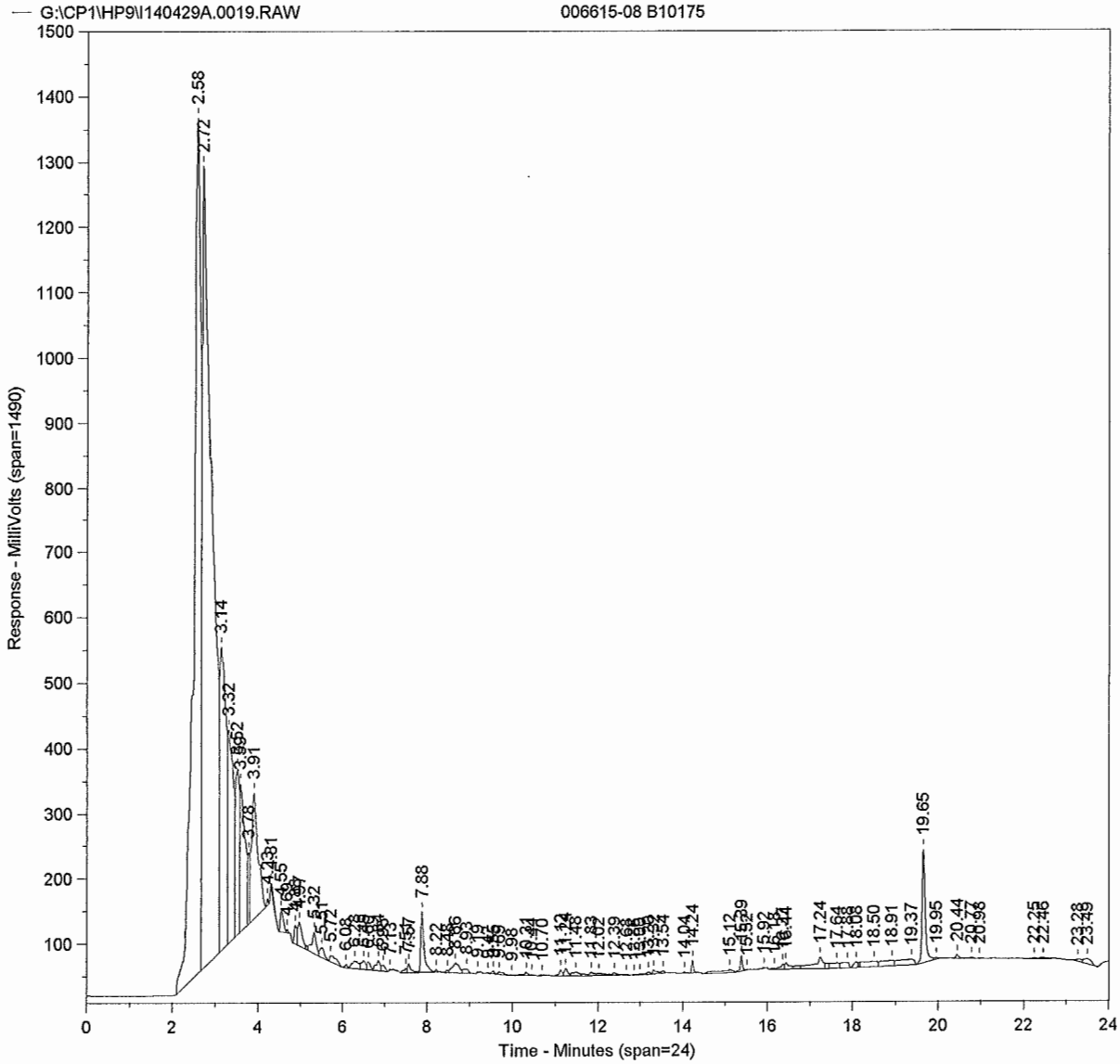
Field ID:	MAK120C	ARDL Lab No.:	006615-08
Desc/Location:	MAKAU MILITARY RES OAHU	Lab Filename:	
Sample Date:	02/11/2014	Received Date:	03/14/2014
Sample Time:	1030	Prep. Date:	03/26/2014
Matrix:	TISSUE	Analysis Date:	04/29/2014
Amount Used:	5 g	Instrument ID:	
Final Volume:	1 mL	QC Batch:	B10175
% Moisture:	No Moisture Present	Level:	LOW

Parameter	Method Limit	Reporting Limit	Result	Data Flag	Units	Dilution Factor
alpha-BHC	4.00	4.00	ND		UG/KG	1
gamma-BHC (Lindane)	4.00	4.00	ND		UG/KG	1
delta-BHC	4.00	4.00	ND		UG/KG	1
Heptachlor	4.00	4.00	ND		UG/KG	1
Aldrin	4.00	4.00	ND		UG/KG	1
Heptachlor Epoxide	4.00	4.00	ND		UG/KG	1
p,p'-DDT	4.00	4.00	ND		UG/KG	1
beta-BHC	4.00	4.00	ND		UG/KG	1

SURROGATE RECOVERIES:	Limits	Results
Tetrachloro-m-xylene	25-125	53%
Decachlorobiphenyl	25-125	75%

Surrogate recoveries marked with '*' indicates they are outside standard limits.

Sample 006615-08, CHLORINATED PESTICIDES (8081) Page 1 of 1


G:\CP1\HP9\I140429A.0019.RAW
006615-08 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.58
2.72
3.14
3.32
3.91
3.78
7.88
19.65
19.95
17.24
18.50
18.91
19.37
20.44
22.25
23.28

Primary

Sample Name = **006615-08 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0019.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 9:03:14 PM
Method Version = 211
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.58		0.00	0.000	15122371	28.236	BV	0.16
2	2.72		0.00	0.000	19323350	36.080	VV	0.17
3	3.14		0.00	0.000	4825976	9.011	VV	0.13
4	3.32		0.00	0.000	2779074	5.189	VV	0.11
5	3.52		0.00	0.000	1587985	2.965	VV	0.07
6	3.59		0.00	0.000	1871137	3.494	VV	0.09
7	3.78		0.00	0.000	320676	0.599	VV	0.03
8	3.91		0.00	0.000	2180901	4.072	VV	0.16
9	4.23		0.00	0.000	28706	0.054	VB	0.05
10	4.31		0.00	0.000	30864	0.058	BB	0.07
11	4.55		0.00	0.000	168564	0.315	BV	0.08
12	4.69		0.00	0.000	13328	0.025	VB	0.05
13	4.88		0.00	0.000	111910	0.209	BV	0.07
14	4.97		0.00	0.000	263421	0.492	VV	0.12
15	5.32		0.00	0.000	242826	0.453	VV	0.09
16	5.51		0.00	0.000	114803	0.214	VB	0.14
17	5.72		0.00	0.000	112068	0.209	BB	0.22
18	6.08		0.00	0.000	17609	0.033	BV	0.05
19	6.28		0.00	0.000	121099	0.226	VV	0.21
20	6.49		0.00	0.000	90838	0.170	VV	0.09
21	6.60		0.00	0.000	64093	0.120	VV	0.09
22	6.84		0.00	0.000	108050	0.202	VV	0.13
23	6.95		0.00	0.000	55269	0.103	VB	0.11
24	7.13		0.00	0.000	6619	0.012	BB	0.07
25	7.51		0.00	0.000	32103	0.060	BV	0.10
26	7.57		0.00	0.000	67526	0.126	VV	0.06
27	7.88	CL4XYL	0.05	37.631	484463	0.905	VV	0.07
28	8.22		0.00	0.000	13502	0.025	VB	0.06
29	8.48		0.00	0.000	13747	0.026	BV	0.06
30	8.66		0.00	0.000	170115	0.318	VV	0.15
31	8.93		0.00	0.000	59570	0.111	VB	0.16
32	9.19		0.00	0.000	3891	0.007	BB	0.05
33	9.42		0.00	0.000	5151	0.010	BV	0.04
34	9.55		0.00	0.000	17746	0.033	VV	0.07
35	9.69		0.00	0.000	32445	0.061	VB	0.16
36	9.98	LINDANE *	0.01	8.617	4863	0.009	BV	0.10
37	10.31		0.00	0.000	39781	0.074	VV	0.08
38	10.44		0.00	0.000	6109	0.011	VB	0.07
39	10.70		0.00	0.000	10617	0.020	BB	0.09
40	11.12		0.00	0.000	45864	0.086	BV	0.09
41	11.24		0.00	0.000	58424	0.109	VV	0.06
42	11.48		0.00	0.000	58781	0.110	VV	0.14
43	11.83		0.00	0.000	39682	0.074	VV	0.12
44	12.02		0.00	0.000	39429	0.074	VV	0.16
45	12.39		0.00	0.000	26418	0.049	VV	0.08
46	12.68		0.00	0.000	5661	0.011	VB	0.09
47	12.86		0.00	0.000	2842	0.005	BB	0.10
48	13.00	HPCLE	0.00	0.267	3868	0.007	BV	0.07
49	13.20		0.00	0.000	21764	0.041	VV	0.10
50	13.32		0.00	0.000	40375	0.075	VV	0.10
51	13.54		0.00	0.000	15973	0.030	VB	0.06
52	14.04		0.00	0.000	5728	0.011	BB	0.07

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	14.24		0.00	0.000	52309	0.098	BB	0.04
54	15.12		0.00	0.000	116654	0.218	BB	0.62
55	15.39		0.00	0.000	79271	0.148	BV	0.05
56	15.52		0.00	0.000	3368	0.006	VB	0.07
57	15.92		0.00	0.000	3482	0.007	BB	0.08
58	16.18		0.00	0.000	14699	0.027	BV	0.13
59	16.37		0.00	0.000	46517	0.087	VV	0.07
60	16.44		0.00	0.000	72978	0.136	VV	0.05
61	17.24		0.00	0.000	258014	0.482	VV	0.09
62	17.64		0.00	0.000	118592	0.221	VV	0.19
63	17.88		0.00	0.000	108215	0.202	VB	0.22
64	18.08		0.00	0.000	59639	0.111	BV	0.12
65	18.50		0.00	0.000	198986	0.372	VV	0.25
66	18.91		0.00	0.000	174497	0.326	VV	0.30
67	19.37		0.00	0.000	223398	0.417	VB	0.47
68	19.65	CL10BP	0.07	53.485	897685	1.676	BV	0.07
69	19.95		0.00	0.000	16218	0.030	VB	0.09
70	20.44		0.00	0.000	25382	0.047	BV	0.08
71	20.77		0.00	0.000	15690	0.029	VB	0.24
72	20.98		0.00	0.000	5060	0.009	BB	0.15
73	22.25		0.00	0.000	19236	0.036	BV	0.22
74	22.46		0.00	0.000	19724	0.037	VB	0.13
75	23.28		0.00	0.000	38967	0.073	BV	0.14
76	23.49		0.00	0.000	100090	0.187	VB	0.23

Total Area = 5.355664E+07 Total Height = 4917005 Total Amount = 0.1400768

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-08 B10175**

Instrument = HP 9
Heading 1 = STX-CLP #975606
Heading 2 =

Acquisition Port = 1

Raw File Name = **G:\CP1\HP9\I140429A.0019.RAW**
Method File Name = H:\CP1\HP9\PEST.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06A.cal

Date Taken (end) = 4/29/14 9:03:14 PM
Method Version = 211
Method Date = 4/30/14 10:27:30 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:39:11 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

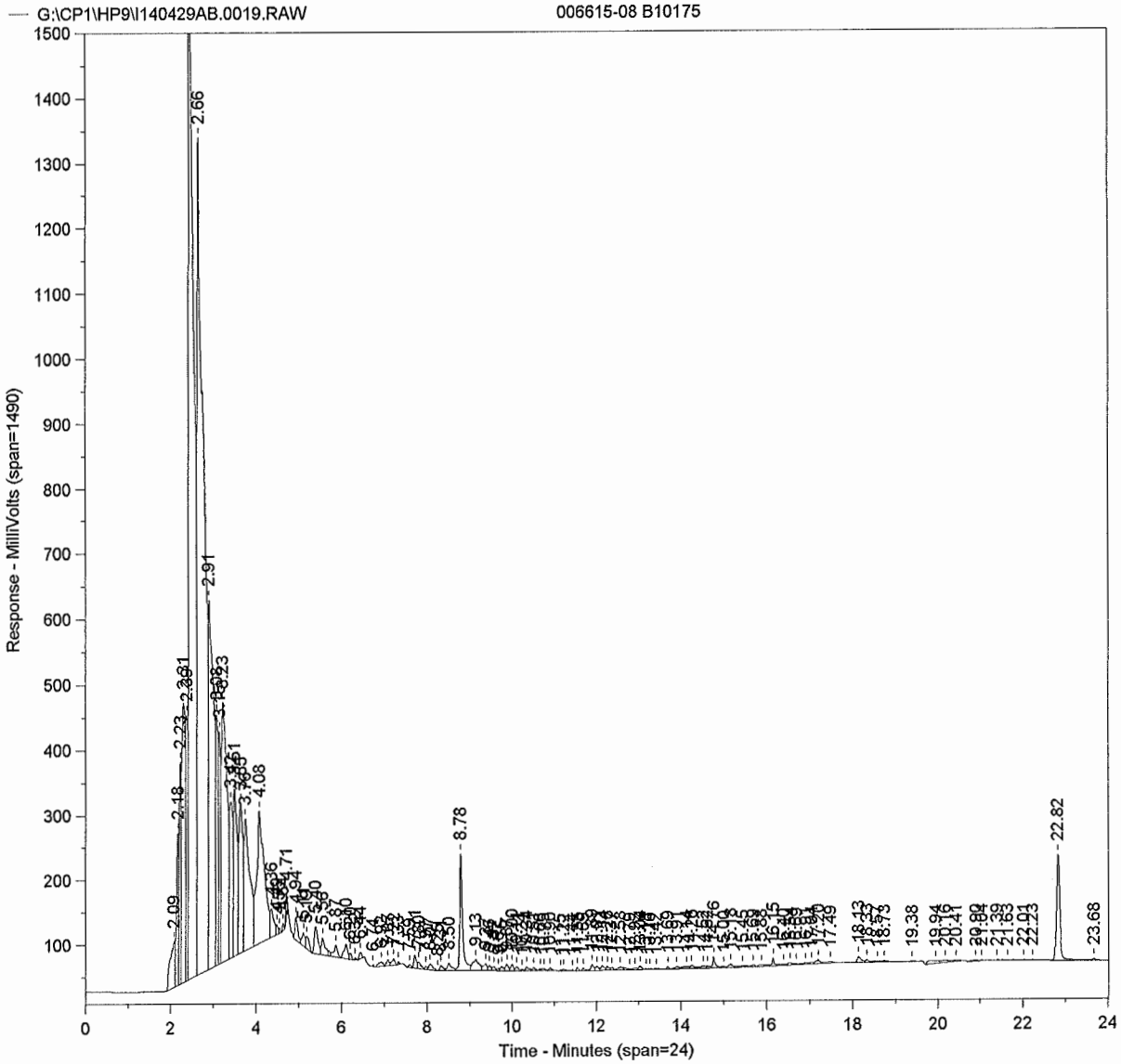
Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
7.88	CL4XYL	484463	9190794	0.053	52.7	21.085		
9.98	LINDANE *	4863	10341835	0.012	12.1	4.828		
13.00	HPCLE	3868	10323798	0.000	0.4	0.150		UNDER
19.65	CL10BP	897685	11981994	0.075	74.9	29.968		

* Linear regression

Checked By: GRC Date: 4/30/14


G:\CP1\HP9\I140429AB.0019.RAW
006615-08 B10175
Response - MilliVolts (span=1490)
Time - Minutes (span=24)
2.66
2.91
4.08
8.78
22.82
23.68

Sample Name = **006615-08 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0019.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 9:03:14 PM
Method Version = 201
Calibration Version = 9

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
1	2.09		0.00	0.000	548654	0.921	BV	0.15
2	2.18		0.00	0.000	876871	1.471	VV	0.05
3	2.23		0.00	0.000	893312	1.499	VV	0.03
4	2.31		0.00	0.000	2600555	4.363	VV	0.08
5	2.39		0.00	0.000	1279925	2.148	VV	0.04
6	2.46		0.00	0.000	14458071	24.259	VV	0.11
7	2.66		0.00	0.000	13456637	22.579	VV	0.09
8	2.91		0.00	0.000	4705738	7.896	VV	0.09
9	3.08		0.00	0.000	1559813	2.617	VV	0.05
10	3.15		0.00	0.000	1284968	2.156	VV	0.04
11	3.23		0.00	0.000	3655217	6.133	VV	0.11
12	3.42		0.00	0.000	1257471	2.110	VV	0.06
13	3.51		0.00	0.000	1564885	2.626	VV	0.07
14	3.65		0.00	0.000	1526360	2.561	VV	0.07
15	3.76		0.00	0.000	1886462	3.165	VV	0.10
16	4.08		0.00	0.000	2542731	4.266	VV	0.14
17	4.36		0.00	0.000	258396	0.434	VV	0.08
18	4.49		0.00	0.000	45091	0.076	VV	0.04
19	4.55		0.00	0.000	22307	0.037	VB	0.05
20	4.64		0.00	0.000	24836	0.042	BB	0.05
21	4.71		0.00	0.000	87718	0.147	BB	0.05
22	4.94		0.00	0.000	167971	0.282	BV	0.07
23	5.11		0.00	0.000	95448	0.160	VV	0.04
24	5.19		0.00	0.000	105326	0.177	VB	0.09
25	5.40		0.00	0.000	258818	0.434	BV	0.09
26	5.56		0.00	0.000	157492	0.264	VV	0.06
27	5.87		0.00	0.000	111464	0.187	VV	0.08
28	6.10		0.00	0.000	131838	0.221	VV	0.10
29	6.20		0.00	0.000	35517	0.060	VB	0.07
30	6.32		0.00	0.000	9177	0.015	BB	0.06
31	6.44		0.00	0.000	41097	0.069	BB	0.08
32	6.74		0.00	0.000	6167	0.010	BB	0.04
33	6.92		0.00	0.000	53734	0.090	BV	0.15
34	7.07		0.00	0.000	48775	0.082	VV	0.08
35	7.22		0.00	0.000	54397	0.091	VB	0.10
36	7.33		0.00	0.000	13083	0.022	BB	0.06
37	7.59		0.00	0.000	16601	0.028	BV	0.07
38	7.71		0.00	0.000	79101	0.133	VV	0.07
39	7.80		0.00	0.000	52155	0.088	VV	0.07
40	7.97		0.00	0.000	15828	0.027	VV	0.05
41	8.07		0.00	0.000	54285	0.091	VB	0.11
42	8.25		0.00	0.000	1642	0.003	BV	0.03
43	8.31		0.00	0.000	38826	0.065	VV	0.07
44	8.50		0.00	0.000	77806	0.131	VV	0.07
45	8.78	CL4XYL	0.06	43.055	805678	1.352	VV	0.05
46	9.13		0.00	0.000	184201	0.309	VV	0.13
47	9.37		0.00	0.000	63991	0.107	VV	0.06
48	9.46		0.00	0.000	34534	0.058	VV	0.05
49	9.57		0.00	0.000	31944	0.054	VV	0.09
50	9.67		0.00	0.000	10661	0.018	VV	0.05
51	9.75		0.00	0.000	30904	0.052	VV	0.06
52	9.87		0.00	0.000	45083	0.076	VV	0.05

Peak #	Ret. Time	Name	Amount	Amt %	Area	Area %	Type	Width
53	10.00		0.00	0.000	43303	0.073	VV	0.06
54	10.11		0.00	0.000	30194	0.051	VV	0.09
55	10.24		0.00	0.000	6640	0.011	VV	0.05
56	10.34	ABHC	0.00	1.449	31992	0.054	VV	0.07
57	10.51		0.00	0.000	21151	0.035	VV	0.07
58	10.66		0.00	0.000	6155	0.010	VV	0.04
59	10.75		0.00	0.000	18222	0.031	VV	0.09
60	10.90		0.00	0.000	20180	0.034	VB	0.09
61	11.15		0.00	0.000	3881	0.007	BV	0.04
62	11.22	LINDANE	0.00	0.814	14762	0.025	VV	0.08
63	11.44	BBHC	0.00	0.416	4257	0.007	VV	0.04
64	11.55		0.00	0.000	16610	0.028	VB	0.06
65	11.69		0.00	0.000	12342	0.021	BV	0.05
66	11.89		0.00	0.000	45673	0.077	VV	0.08
67	12.01		0.00	0.000	34972	0.059	VV	0.06
68	12.14		0.00	0.000	40314	0.068	VV	0.05
69	12.26		0.00	0.000	28039	0.047	VV	0.05
70	12.37		0.00	0.000	17009	0.029	VV	0.07
71	12.58		0.00	0.000	36178	0.061	VV	0.14
72	12.79		0.00	0.000	9319	0.016	VV	0.07
73	12.92	ALDRN	0.00	0.847	18645	0.031	VV	0.11
74	13.04		0.00	0.000	25454	0.043	VV	0.07
75	13.18		0.00	0.000	3041	0.005	VV	0.04
76	13.26		0.00	0.000	6913	0.012	VV	0.07
77	13.42		0.00	0.000	9199	0.015	VB	0.16
78	13.69		0.00	0.000	11774	0.020	BV	0.05
79	13.91		0.00	0.000	21057	0.035	VV	0.10
80	14.14	HPCLE	0.00	2.209	35676	0.060	VV	0.16
81	14.26		0.00	0.000	28696	0.048	VV	0.06
82	14.52		0.00	0.000	32361	0.054	VV	0.11
83	14.62		0.00	0.000	13438	0.023	VV	0.06
84	14.76		0.00	0.000	72423	0.122	VV	0.05
85	15.00		0.00	0.000	11362	0.019	VV	0.11
86	15.18		0.00	0.000	33957	0.057	VV	0.09
87	15.45		0.00	0.000	11402	0.019	VV	0.06
88	15.69		0.00	0.000	18599	0.031	VB	0.11
89	15.88		0.00	0.000	19817	0.033	BV	0.14
90	16.15		0.00	0.000	56997	0.096	VV	0.04
91	16.40		0.00	0.000	13749	0.023	VV	0.10
92	16.54		0.00	0.000	27194	0.046	VV	0.10
93	16.69		0.00	0.000	6242	0.010	VV	0.06
94	16.91	PPDDT *	0.00	1.126	24127	0.040	VV	0.18
95	17.04		0.00	0.000	17003	0.029	VV	0.08
96	17.20		0.00	0.000	37731	0.063	VV	0.08
97	17.49		0.00	0.000	18992	0.032	VB	0.09
98	18.13		0.00	0.000	51694	0.087	BV	0.09
99	18.33		0.00	0.000	18919	0.032	VV	0.06
100	18.57		0.00	0.000	14283	0.024	VV	0.13
101	18.73		0.00	0.000	13901	0.023	VB	0.07
102	19.38		0.00	0.000	3140	0.005	BB	0.11
103	19.94		0.00	0.000	84253	0.141	BV	0.32
104	20.16		0.00	0.000	38646	0.065	VV	0.11
105	20.41		0.00	0.000	23812	0.040	VB	0.15
106	20.90		0.00	0.000	21660	0.036	BV	0.23
107	21.04		0.00	0.000	3759	0.006	VB	0.12
108	21.39		0.00	0.000	3442	0.006	BV	0.11
109	21.63		0.00	0.000	7653	0.013	VV	0.17
110	22.01		0.00	0.000	7791	0.013	VV	0.08
111	22.23		0.00	0.000	8772	0.015	VV	0.17
112	22.82	CL10BP	0.07	50.085	895494	1.503	VV	0.08
113	23.68		0.00	0.000	15460	0.026	VB	0.10

Total Area = 5.959926E+07 Total Height = 8396082 Total Amount = 0.138917

**********PESTICIDE/PCB ANALYSIS**********

Sample Name = **006615-08 B10175**

Instrument = HP 9
Heading 1 = STX-CLP2 #969456
Heading 2 =

Acquisition Port = 2

Raw File Name = **G:\CP1\HP9\I140429AB.0019.RAW**
Method File Name = H:\CP1\HP9\PESTB.met
Method Description = RMA PEST - DET A & B
Calibration File Name = G:\CP1\HP9\PESTHAWAII06B.cal

Date Taken (end) = 4/29/14 9:03:14 PM
Method Version = 201
Method Date = 4/30/14 10:27:51 AM
Calibration Version = 9
Calibration Date = 4/30/14 10:41:58 AM

Run Time = 24
Amount Injected = 1
Sample Weight = 1

Dilution Factor = 1

Operator =

Ret. Time	Peak Name	Peak Area	CF	Response ug/mL	%Recovery	Amount ug/Kg	%RPD	
8.78	CL4XYL	805678	13470371	0.060	59.8	23.924		
10.34	ABHC	31992	15896177	0.002	2.0	0.805		UNDER
11.22	LINDANE	14762	13048558	0.001	1.1	0.453		UNDER
11.44	BBHC	4257	7372642	0.001	0.6	0.231		UNDER
12.92	ALDRN	18645	15852767	0.001	1.2	0.470		UNDER
14.14	HPCLE	35676	11625932	0.003	3.1	1.227		UNDER
16.91	PPDDT *	24127	6988384	0.002	1.6	0.625		UNDER
22.82	CL10BP	895494	12870687	0.070	69.6	27.830		

* Linear regression

Checked By: JRD Date: 4/30/14

Example Calculation

Rev. 1.1

EXAMPLE CALCULATIONS

As is appropriate for each analyte, use the values either for the average calibration factor (CF) or the linear regression equation from the full initial calibration. Calculate the apparent concentration in the samples using the relationship given below:

1) ug analyte/mL = (peak area)/(average CF)

Sample: MAK116C MS

Compound: PPDDT

$$\frac{(629291)}{(8464711)} = 0.07434 \text{ ug/mL}$$

2) ug analyte/mL -= $\frac{\text{(peak area)} - b}{m}$

Sample: _____

Compound: _____

$$\frac{(_____) - (_____)}{(_____)} = _____ \text{ug/mL}$$

Where: m is the slope of the initial calibration curve, and b is the zero intercept of that curve.

$$\text{Concentration (ug/L) of analyte} = \frac{(A)\,(Vt)\,(Df)(GPC)}{(Vi)(TS)}$$

Where: A = Concentration of the analyte in the sample extract in ug/mL
Vi = Initial sample volume (L) or initial sample weight (Kg)
Vt = Volume of final extract (ml)
Df = Dilution factor
TS = Total solids (soils only)
GPC = Correction factor of 2 for all samples put through GPC cleanup

SAMPLE CALCULATIONS

Sample: MAK116C MS

Compound: PPDDT

Matrix: TISSUE

$$\text{Concentration (ug/L) or (ug/Kg)} = \frac{(0.07434)(1)(1)(2)}{(\cancel{5.059})(___)} = 29.6$$

0.00503 kg
BJ 05/06/13

Example Calculations Performed By: BJ Date: 05/06/14

Miscellaneous Additional Data

(If applicable)

☒ **None** _____

Rev. 1.1