Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g599.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:01 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:41:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) SAB Tetrachlo...	1.991	2.353	174.4E6	152.3E6	52.593	54.172
Spiked Amount	40.000	Range 30 - 150	Recovery =		131.48%	135.43%
34) SA Decachlor...	8.736	10.417	153.1E6	97106744	50.586	47.513
Spiked Amount	40.000	Range 30 - 150	Recovery =		126.47%	118.78%
Target Compounds						
24) L8 Toxaphene{A}	4.814	5.740	24774038	22736765	501.367	491.169
25) L8 Toxaphene{B}	5.288	6.542	71830122	34552140	549.485	575.192
26) L8 Toxaphene{C}	5.456	6.696	56751415	72953578	555.850	642.332
27) L8 Toxaphene{D}	5.775	7.123	58260539	37181203	616.669	640.806
28) L8 Toxaphene{E}	6.399	7.969	51131129	34480498	655.511	762.877

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

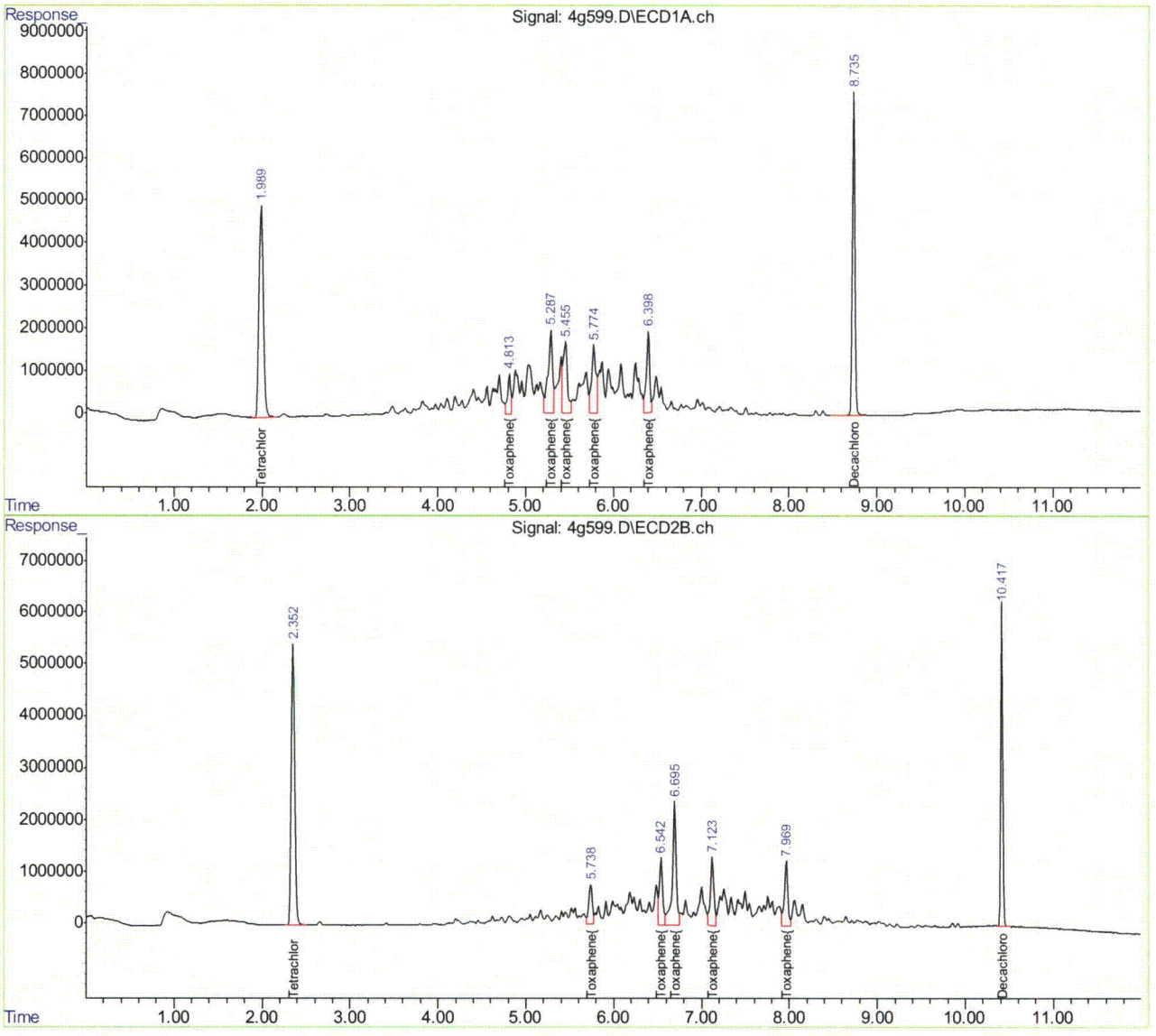
10.6.44 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g599.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:01 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:41:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



10.6.44 10

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/22/10 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:14 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:43:22 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) SAB Tetrachlo...	1.982	2.354	86705903	70871571	26.152	25.210
Spiked Amount	40.000	Range 30 - 150	Recovery =		65.38%	63.02%
34) SA Decachlor...	8.736	10.417	58832022	38046243	19.444	18.616
Spiked Amount	40.000	Range 30 - 150	Recovery =		48.61%	46.54%
Target Compounds						
29) Chlordane...	2.999	3.701	119.2E6	88662927	532.685	524.628
30) Chlordane...	3.416	4.260	92300220	53313103	601.662	497.124
31) Chlordane...	4.066	5.080	265.3E6	188.6E6	508.708	503.990
32) Chlordane...	4.206	5.213	452.1E6	333.7E6	518.721	504.804m
33) Chlordane...	5.202	6.636	64606009	48442318	566.885m	608.760

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

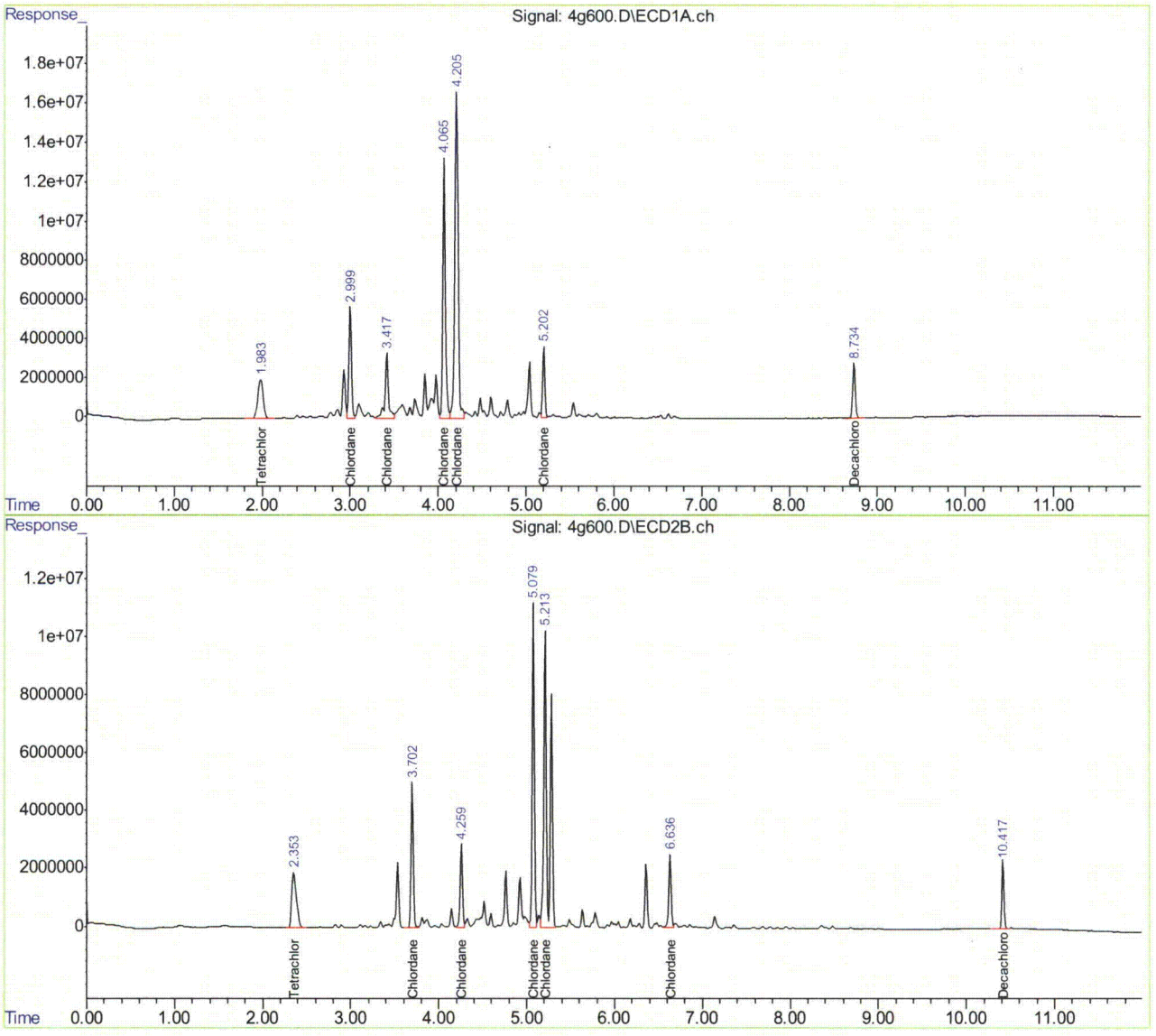
10.6.45 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:14 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:43:22 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



10.6.45 10

Manual Integration Approval Summary

Sample Number:	G4G19-IC19	**Method:**	SW846 8081A
Lab FileID:	4G600.D	**Analyst approved:**	10/22/10 11:16 Owen McKenna
Injection Time:	10/21/10 18:14	**Supervisor approved:**	10/22/10 11:37 Owen McKenna

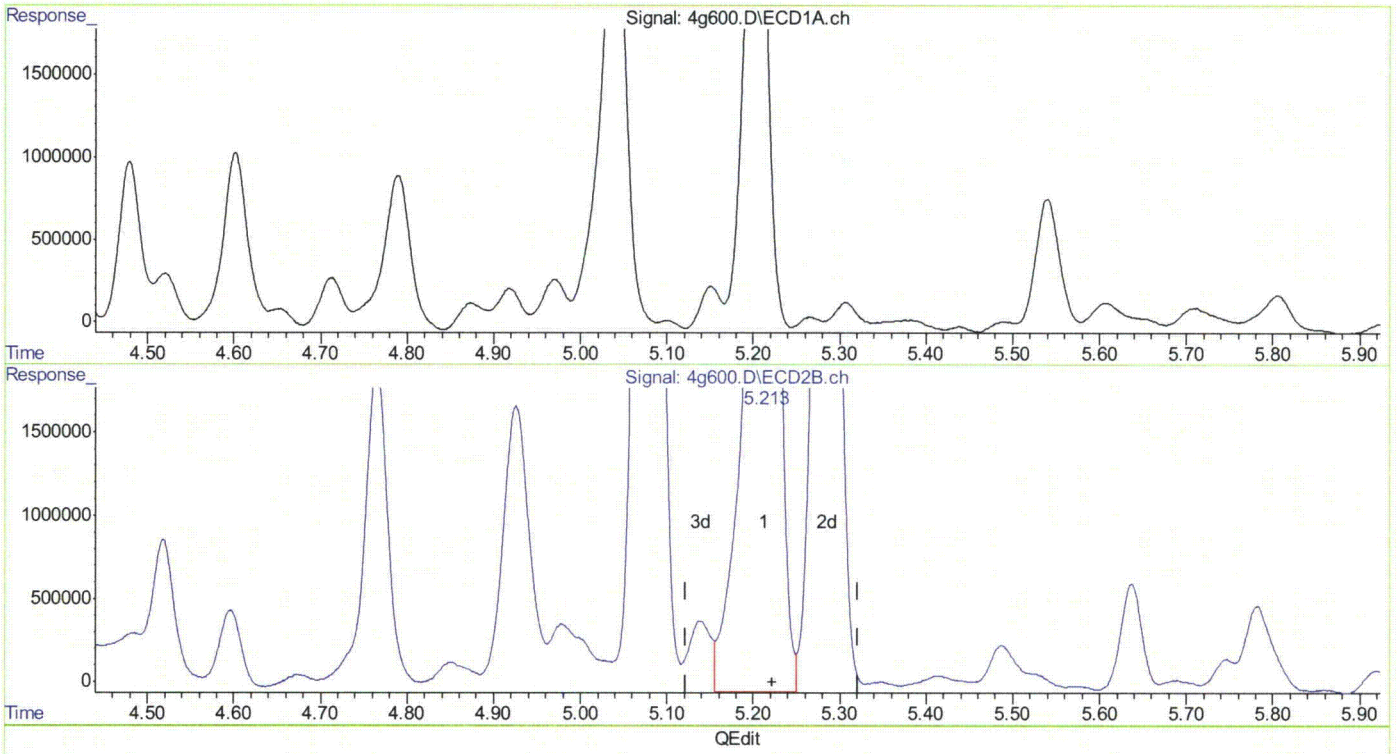
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-E		1	5.20	Poorly defined baseline
Chlordane-D		2	5.21	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:14 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:42:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(32) Chlordane {D}
4.206min 518.721 PPB
response 452107460

(32) Chlordane {D} #2
5.214min 296.343 PPB
response 195913088

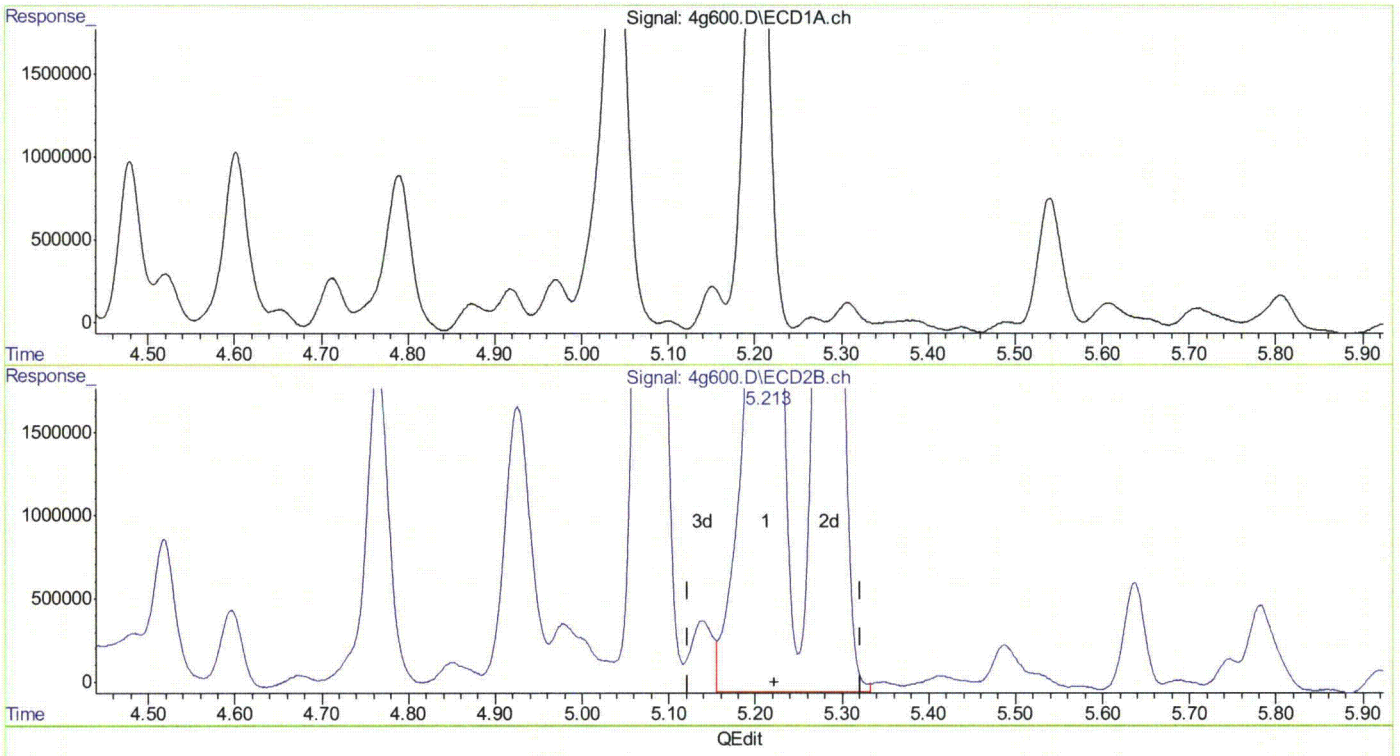
(+) = Expected Retention Time
4PST19.M Fri Oct 22 09:42:57 2010 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:14 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:42:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(32) Chlordane {D}
4.206min 518.721 PPB
response 452107460

(32) Chlordane {D} #2
5.213min 504.804 PPB m
response 333727414

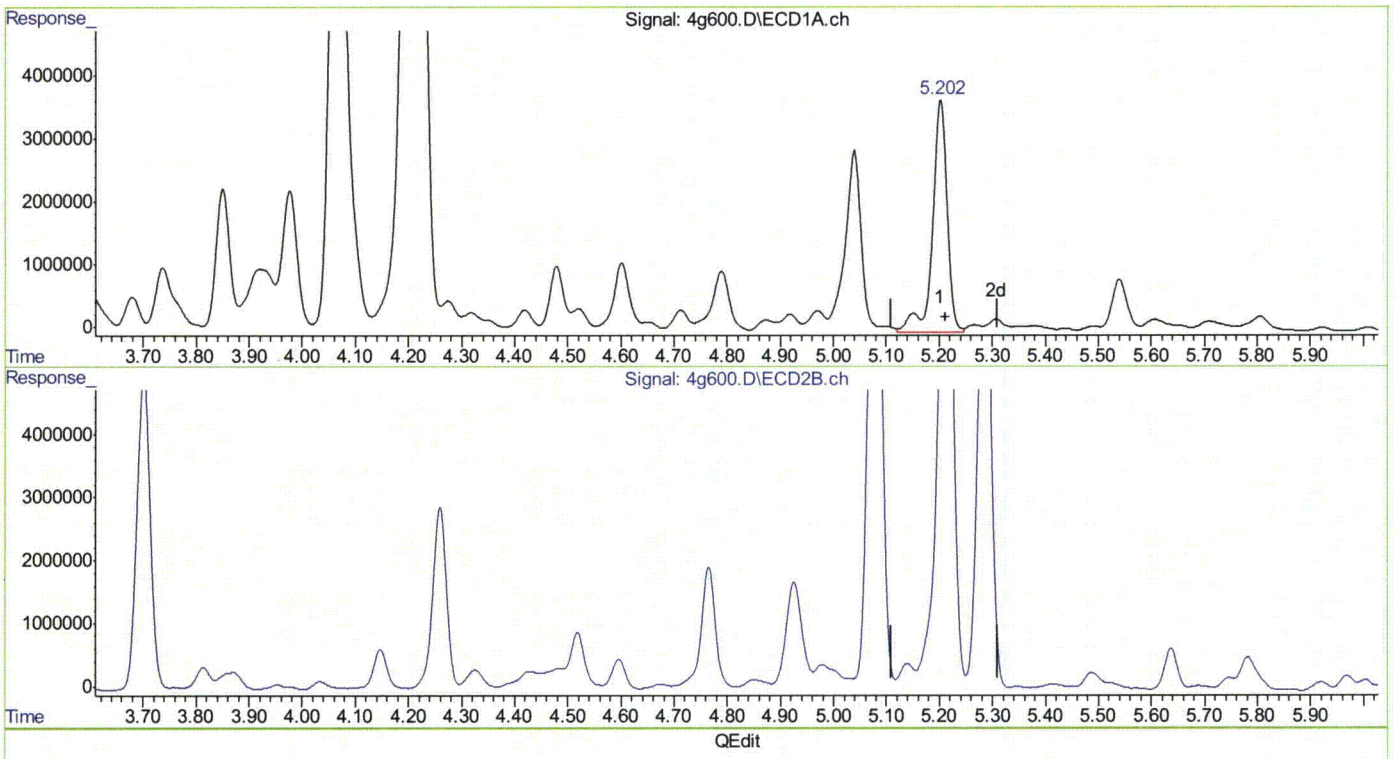
(+) = Expected Retention Time
4PST19.M Fri Oct 22 09:43:04 2010 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:14 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:42:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(33) Chlordane {E}
5.203min 624.831 PPB
response 71209926

(33) Chlordane {E} #2
6.636min 608.760 PPB
response 48442318

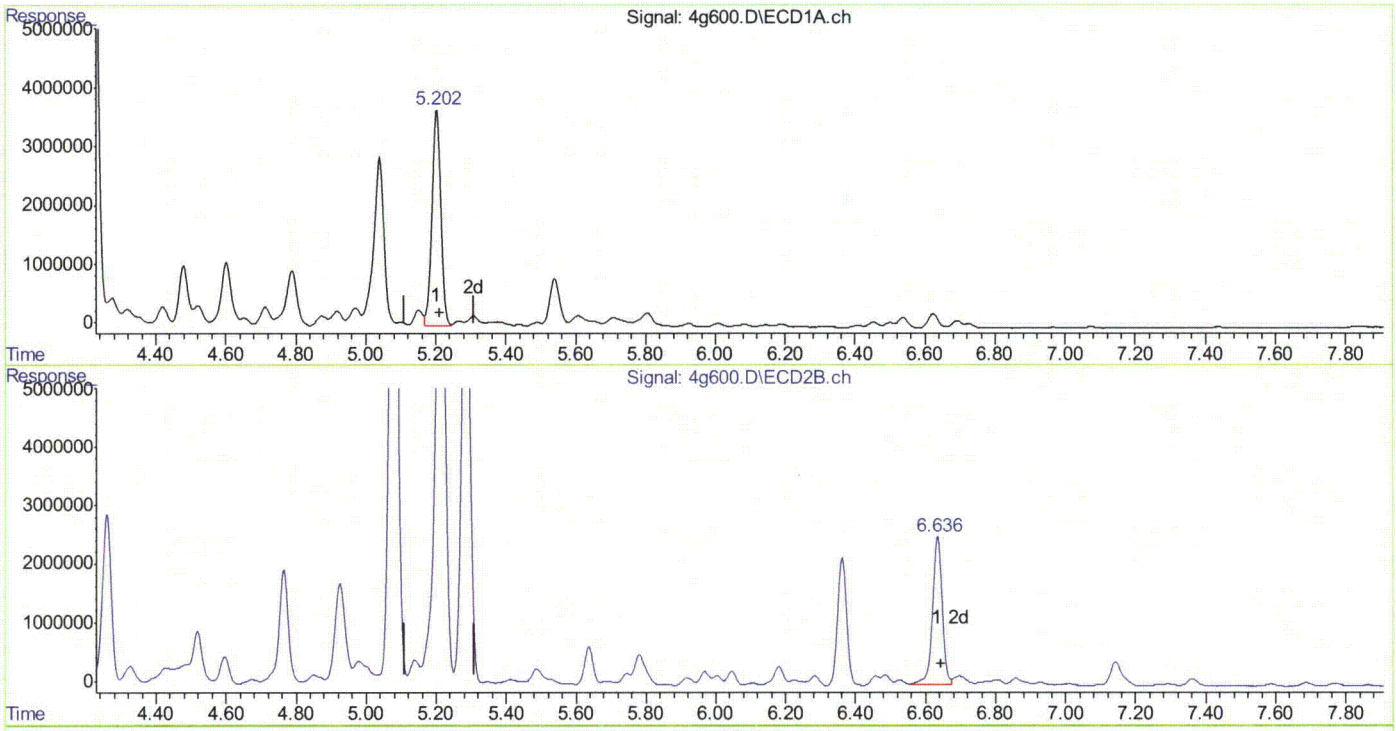
(+) = Expected Retention Time
4PST19.M Fri Oct 22 09:43:18 2010 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:14 pm
Operator : owenm
Sample : ic19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:42:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M
Quant Title : PEST/PCB
QLast Update : Thu Oct 21 10:11:07 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(33) Chlordane {E}
5.202min 566.885 PPB m
response 64606009

(33) Chlordane {E} #2
6.636min 608.760 PPB
response 48442318

(+) = Expected Retention Time
4PST19.M Fri Oct 22 09:43:25 2010 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:27 pm
Operator : owenm
Sample : icv19-25
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:49:08 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
	Target Compounds						
3)	A alpha-BHC	2.356	2.857	117.9E6	91153882	25.063	28.088
4)	MA gamma-BHC	2.595	3.204	107.5E6	85846291	25.072	27.461
5)	MA Heptachlor	2.999	3.700	109.7E6	81625832	24.426	24.435
6)	B beta-BHC	2.656	3.271	51411030	42242501	24.316	24.711
7)	B delta-BHC	2.811	3.599	107.9E6	82709140	25.526	27.882
8)	MB Aldrin	3.286	4.092	100.9E6	72814484	24.739	27.094
9)	B Heptachlo...	3.923	4.818	97581287	72184494	24.403	24.766
10)	B gamma-Chl...	4.065	5.079	96941667	71397425	24.548	24.445
11)	B alpha-Chl...	4.222	5.285	94484781	70266188	24.171	24.288
12)	A Endosulfan I	4.389	5.370	91507970	65588096	24.222	24.576
13)	B 4,4'-DDE	4.317	5.525	93886216	65936027	25.150	27.229
14)	MA Dieldrin	4.689	5.768	99211495	69534214	24.936	24.990
15)	MA Endrin	4.992	6.228	94319000	65162496	25.211	25.018
16)	A 4,4'-DDD	5.099	6.412	80298619	55578865	24.939	25.008
17)	B Endosulfa...	5.296	6.557	86979929	63325442	24.270	25.011
18)	MA 4,4'-DDT	5.492	6.919	82017098	56796109	24.413	24.236
19)	B Endrin Al...	5.900	7.099	71823835	52348043	22.568	23.676
20)	B Endosulfa...	6.558	7.561	82080247	58617261	24.456	24.745
21)	A Methoxychlor	6.243	8.092	45741449	34692134	24.414	24.749
23)	B Endrin Ke...	6.987	8.456	97514085	70709634	23.316	23.394

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

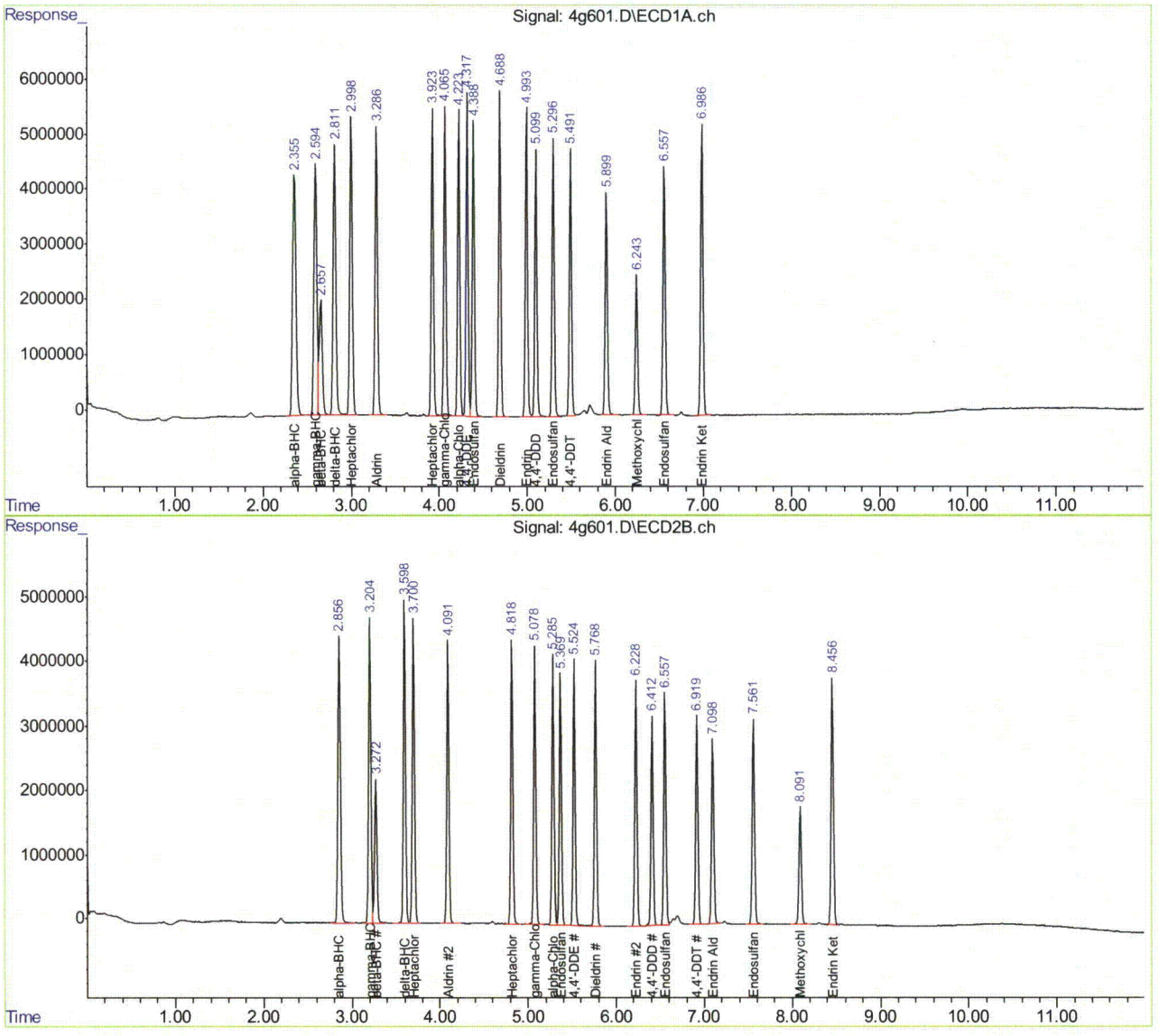
10.6.46 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:27 pm
Operator : owenm
Sample : icv19-25
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 09:49:08 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



10.6.46 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:41 pm
Operator : owenm
Sample : icv19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 10:46:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) SAB Tetrachlo...	1.989	2.352	165.2E6	144.6E6	49.557	51.076
Spiked Amount	40.000	Range 30 - 150	Recovery =		123.89%	127.69%
34) SA Decachlor...	8.735	10.416	146.4E6	95884919	46.791	47.062
Spiked Amount	40.000	Range 30 - 150	Recovery =		116.98%	117.66%
Target Compounds						
24) L8 Toxaphene{A}	4.814	5.736	25796100	26135120	520.628	574.733
25) L8 Toxaphene{B}	5.287	6.542	72425730	32300323	504.146	467.414
26) L8 Toxaphene{C}	5.456	6.697	48036298	69572160	423.217	476.825
27) L8 Toxaphene{D}	5.776	7.123	49856197	29572410	427.873	397.680
28) L8 Toxaphene{E}	6.399	7.969	36411406	24180736	356.059	350.644

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

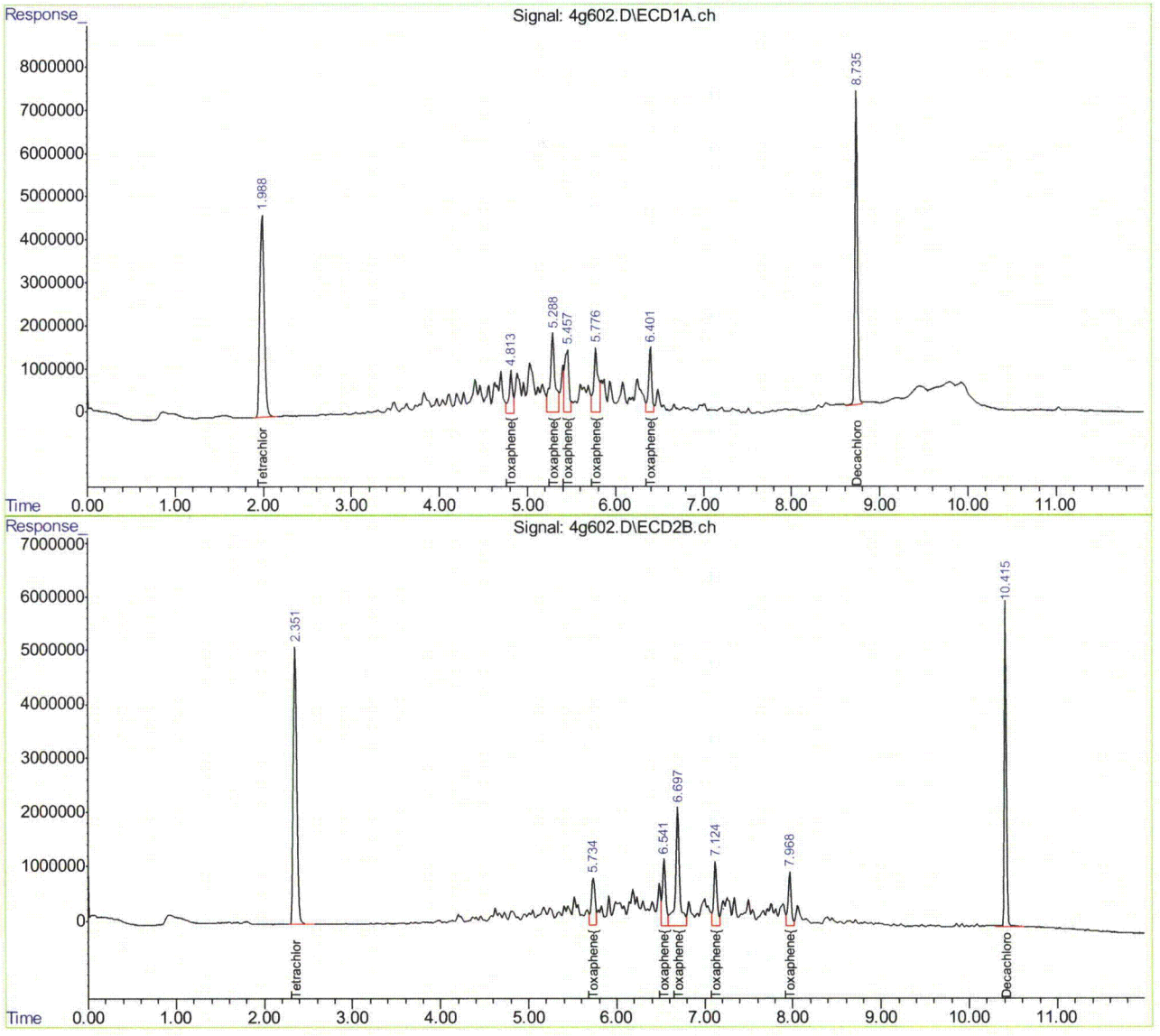
10.6.47 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:41 pm
Operator : owenm
Sample : icv19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 10:46:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



10.6.47 10

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/22/10 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g603.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:54 pm
Operator : owenm
Sample : icv19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 10:54:30 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	1.990	2.354	226.4E6	195.0E6	67.899	68.878
	Spiked Amount	40.000	Range 30 - 150	Recovery =		169.75%#	172.20%#
34)	SA Decachlor...	8.735	10.417	182.0E6	114.8E6	58.164	56.355
	Spiked Amount	40.000	Range 30 - 150	Recovery =		145.41%	140.89%
	Target Compounds						
29)	Chlordane...	3.000	3.702	98124422	71795522	411.500	404.879
30)	Chlordane...	3.417	4.260	77651051	54062673	420.644	507.030
31)	Chlordane...	4.066	5.080	241.7E6	171.5E6	455.530	454.701
32)	Chlordane...	4.213	5.286f	384.5E6	277.7E6	425.187	416.103m
33)	Chlordane...	5.203	6.637	58864934	45278084	455.569	467.340

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

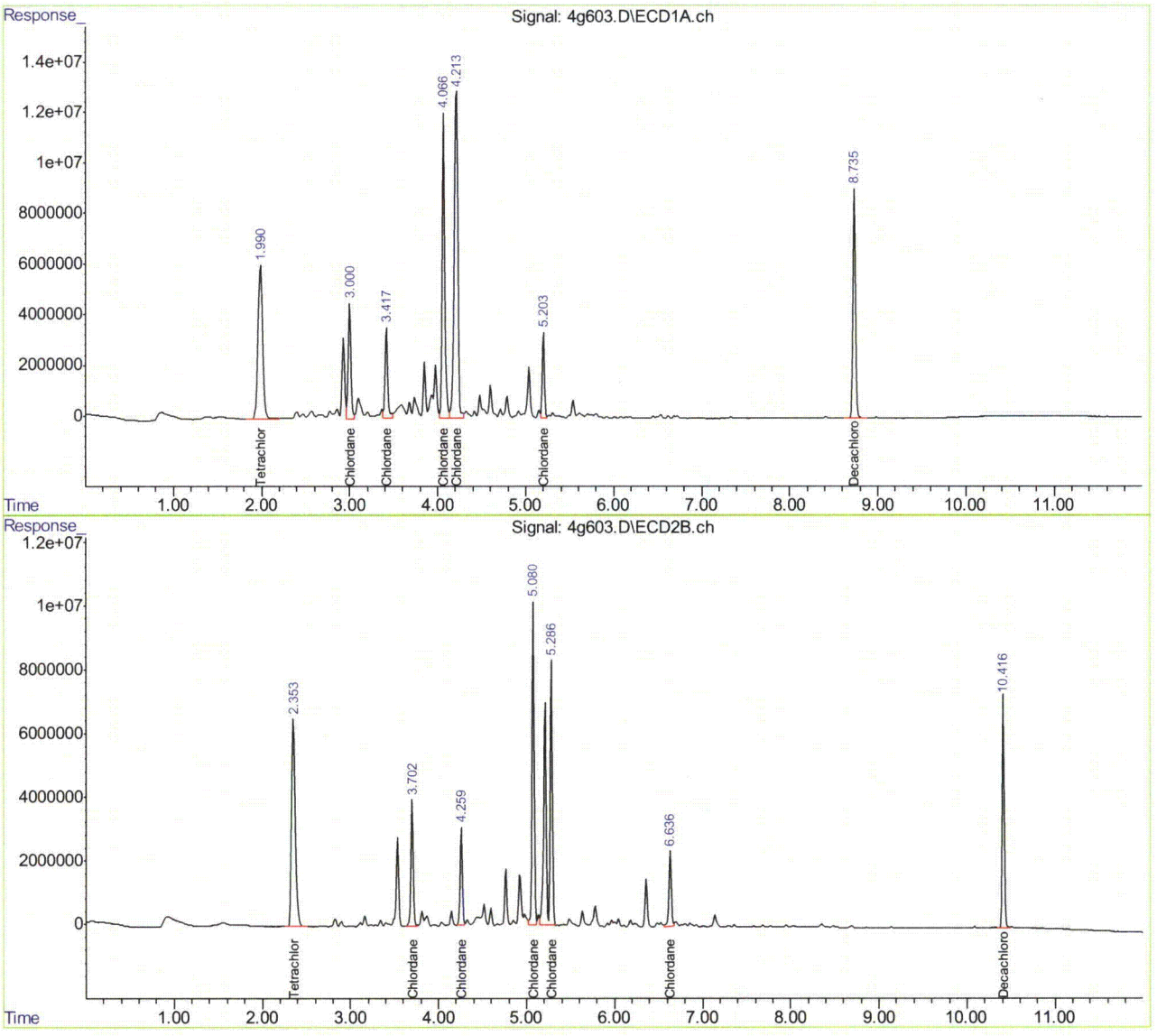
10.6.48 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g603.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:54 pm
Operator : owenm
Sample : icv19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 10:54:30 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



10.6.48 10

Manual Integration Approval Summary

Sample Number: G4G19-ICV19
Lab FileID: 4G603.D
Injection Time: 10/21/10 18:54

Method: SW846 8081A
Analyst approved: 10/22/10 11:16 Owen McKenna
Supervisor approved: 10/22/10 11:37 Owen McKenna

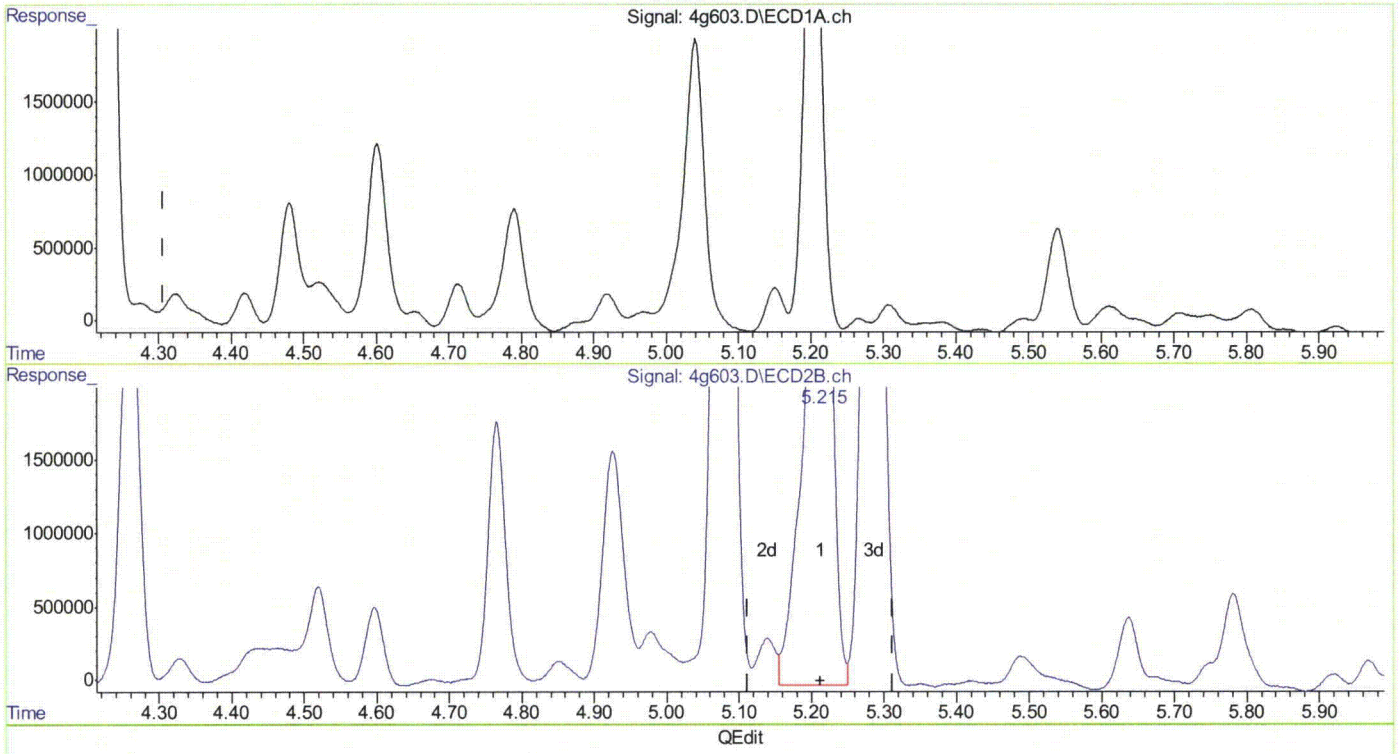
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-B		1	3.42	Split peak
Chlordane-D		2	5.29	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g603.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:54 pm
Operator : owenm
Sample : icv19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 10:53:19 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(32) Chlordane {D}
4.213min 425.187 PPB
response 384460321

(32) Chlordane {D} #2
5.214min 206.397 PPB
response 137760899

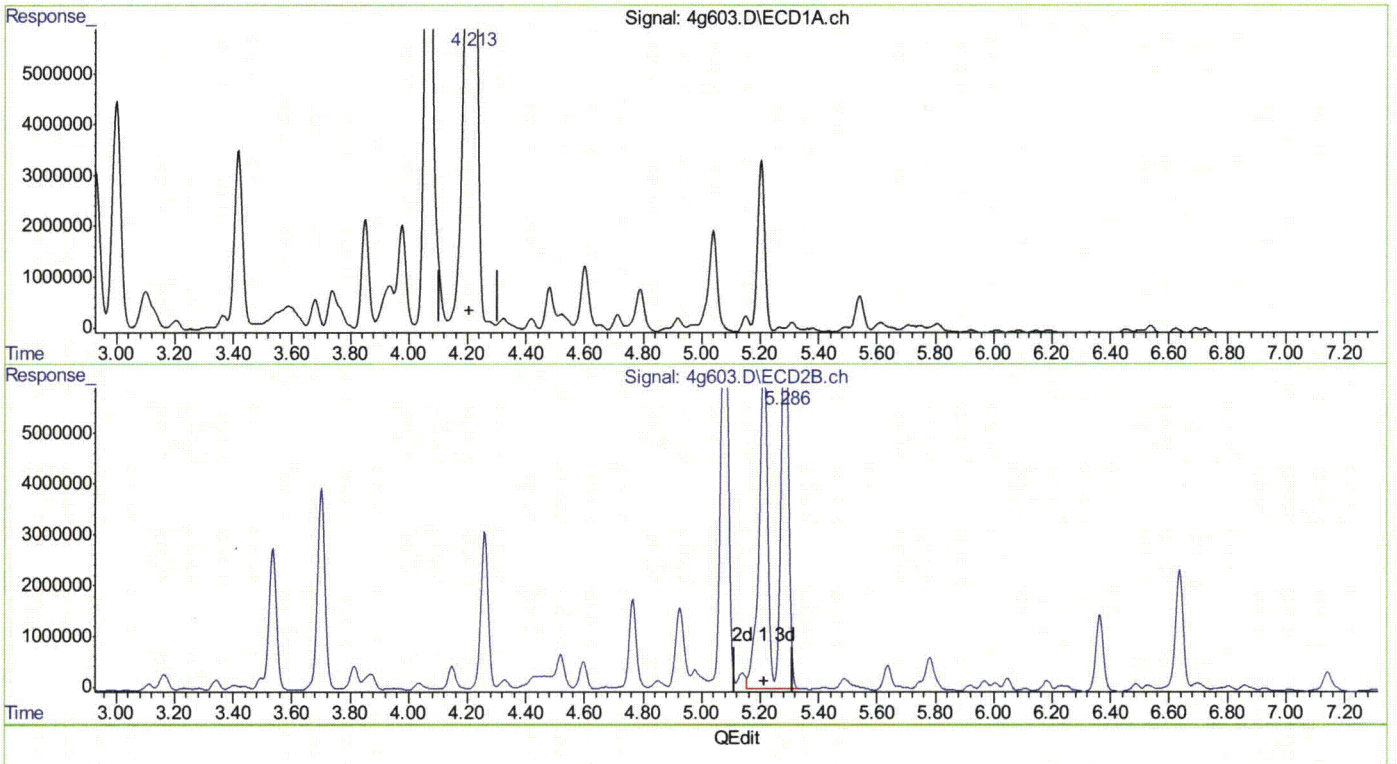
(+) = Expected Retention Time
4pst19.M Fri Oct 22 10:54:23 2010 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\
Data File : 4g603.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Oct 2010 6:54 pm
Operator : owenm
Sample : icv19-500
Misc : op46271,g4g19,17.0,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 22 10:53:19 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(32) Chlordane {D}
4.213min 425.187 PPB
response 384460321

(32) Chlordane {D} #2
5.286min 416.103 PPB m
response 277729707

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\
Data File : 4g781.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2010 12:29 pm
Operator : owenm
Sample : cc19-25
Misc : op46238,g4g24,17.2,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 12:43:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	1.982	2.338	76233871	63894056	22.864	22.573
	Spiked Amount	40.000	Range 30 - 150	Recovery =		57.16%	56.43%
34)	SA Decachlor...	8.729	10.401f	67474632	43377566	21.568	21.291
	Spiked Amount	40.000	Range 30 - 150	Recovery =		53.92%	53.23%
	Target Compounds						
2)	Hexachlor...	2.238	2.732	90963698	80607561	22.273	22.741
3)	A alpha-BHC	2.350	2.843	110.7E6	84298913	23.544	25.976
4)	MA gamma-BHC	2.591	3.190f	100.4E6	79056867	23.426	25.290
5)	MA Heptachlor	2.995	3.686f	104.1E6	76904808	23.170	23.022
6)	B beta-BHC	2.651	3.258	46848787	38614415	22.158	22.588
7)	B delta-BHC	2.806	3.584f	98102916	74750399	23.216	25.199
8)	MB Aldrin	3.283	4.076f	95814913	67592732	23.499	25.151
9)	B Heptachlo...	3.920	4.801f	91096677	66773537	22.781	22.909
10)	B gamma-Chl...	4.062	5.061f	90680619	65855550	22.962	22.547
11)	B alpha-Chl...	4.219	5.267f	88430807	64814319	22.622	22.403
12)	A Endosulfan I	4.386	5.351f	85050782	60167415	22.513	22.545
13)	B 4,4'-DDE	4.314	5.507f	88245924	60622251	23.639	25.035
14)	MA Dieldrin	4.685	5.749f	92723051	64181870	23.305	23.066
15)	MA Endrin	4.988	6.208f	88478332	60079777	23.650	23.066
16)	A 4,4'-DDD	5.095	6.393f	75249641	51456171	23.371	23.153
17)	B Endosulfa...	5.292	6.537f	81046237	57311423	22.614	22.635
18)	MA 4,4'-DDT	5.488	6.899f	78365149	53503197	23.326	22.831
19)	B Endrin Al...	5.894	7.077f	66101849	47710180	20.770	21.578
20)	B Endosulfa...	6.552	7.540f	74868440	52386991	22.307	22.115
21)	A Methoxychlor	6.238	8.070f	43213243	31431992	23.065	22.423
22)	Mirex	6.366	8.370f	64585071	47001593	21.589	21.508
23)	B Endrin Ke...	6.980	8.434f	91137828	63336791	21.791	20.955

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

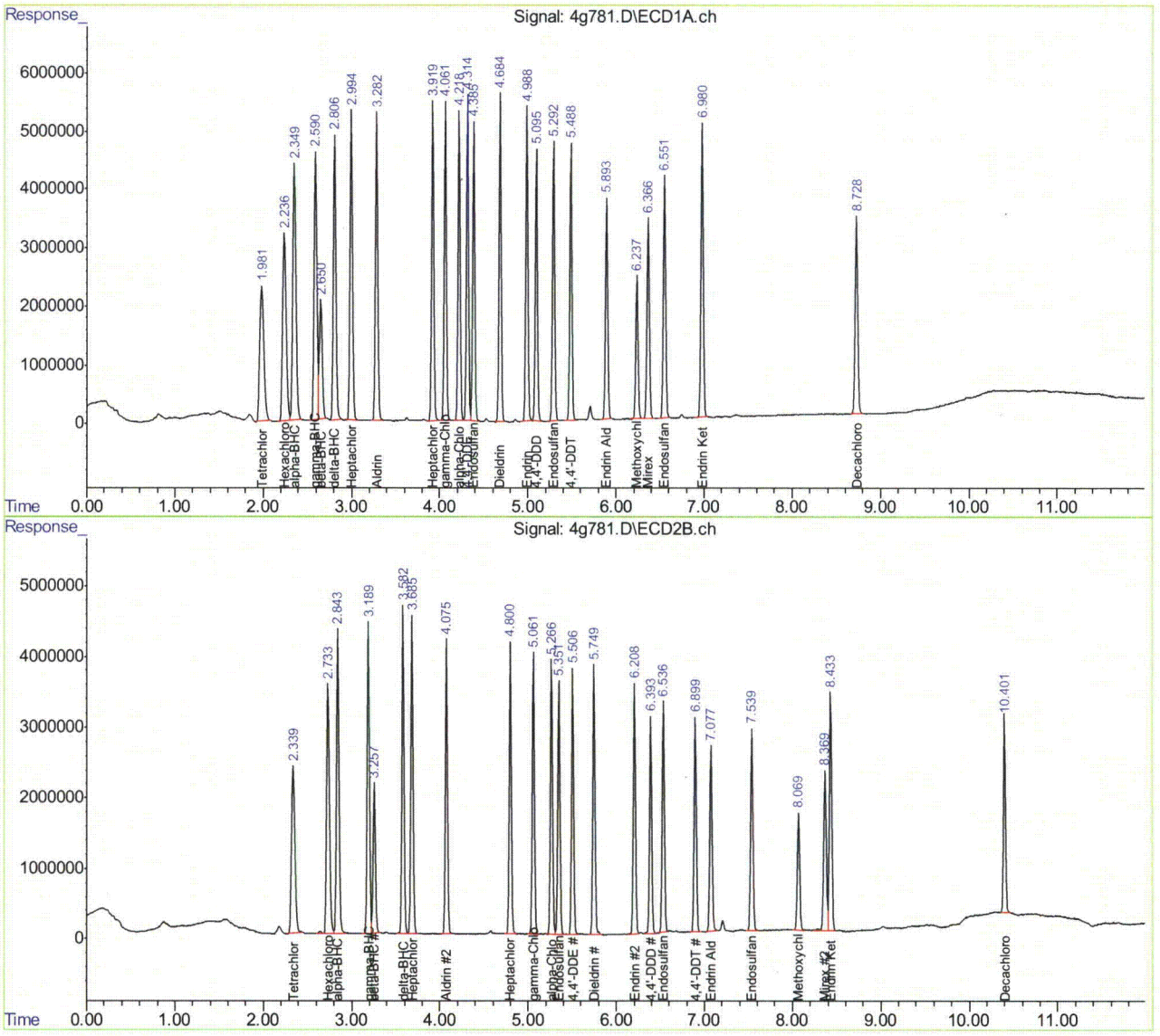
10.6.49 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\
Data File : 4g781.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2010 12:29 pm
Operator : owenm
Sample : cc19-25
Misc : op46238,g4g24,17.2,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 12:43:48 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.6.49 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\
Data File : 4g792.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2010 4:05 pm
Operator : owenm
Sample : cc19-10
Misc : op46202,g4g24,17.2,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 16:21:15 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	1.987	2.346	32107348	26839674	9.630	9.482
	Spiked Amount	40.000	Range 30 - 150	Recovery =		24.08%#	23.70%#
34)	SA Decachlor...	8.722	10.399f	30462377	19364162	9.737	9.504
	Spiked Amount	40.000	Range 30 - 150	Recovery =		24.34%#	23.76%#
	Target Compounds						
2)	Hexachlor...	2.241	2.738	39571972	34335634	9.690	9.687
3)	A alpha-BHC	2.352	2.848	44793454	32731556	9.526	10.086
4)	MA gamma-BHC	2.590	3.193	40790327	30707773	9.518	9.823
5)	MA Heptachlor	2.992	3.688	42767303	31059495	9.521	9.298
6)	B beta-BHC	2.651	3.261	19793083	16173376	9.361	9.461
7)	B delta-BHC	2.805	3.587	39761668	29607547	9.410	9.981
8)	MB Aldrin	3.279	4.077	39458849	27049287	9.677	10.065
9)	B Heptachlo...	3.914	4.801f	37830406	27408100	9.461	9.403
10)	B gamma-Chl...	4.056	5.061f	37320591	27369502	9.450	9.371
11)	B alpha-Chl...	4.212	5.268f	37221983	28704521	9.522	9.922
12)	A Endosulfan I	4.379	5.351f	34908756	24728567	9.240	9.266
13)	B 4,4'-DDE	4.307	5.507f	35241048	24113377	9.440	9.958
14)	MA Dieldrin	4.678	5.749f	38157166	25642134	9.590	9.215
15)	MA Endrin	4.981	6.207f	38472881	24569777	10.284	9.433
16)	A 4,4'-DDD	5.088	6.391f	31626781	21318685	9.822	9.592
17)	B Endosulfa...	5.284	6.535f	34504793	24112241	9.628	9.523
18)	MA 4,4'-DDT	5.480	6.899f	32501603	22891471	9.674	9.768
19)	B Endrin Al...	5.886	7.076f	29693149	21148261	9.330	9.565
20)	B Endosulfa...	6.544	7.538f	32387757	22426371	9.650	9.467
21)	A Methoxychlor	6.230	8.068f	18531876	13617186	9.891	9.714
22)	Mirex	6.359	8.368f	28824660	21370656	9.635	9.779
23)	B Endrin Ke...	6.972	8.431f	40407293	29162457	9.662	9.648

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

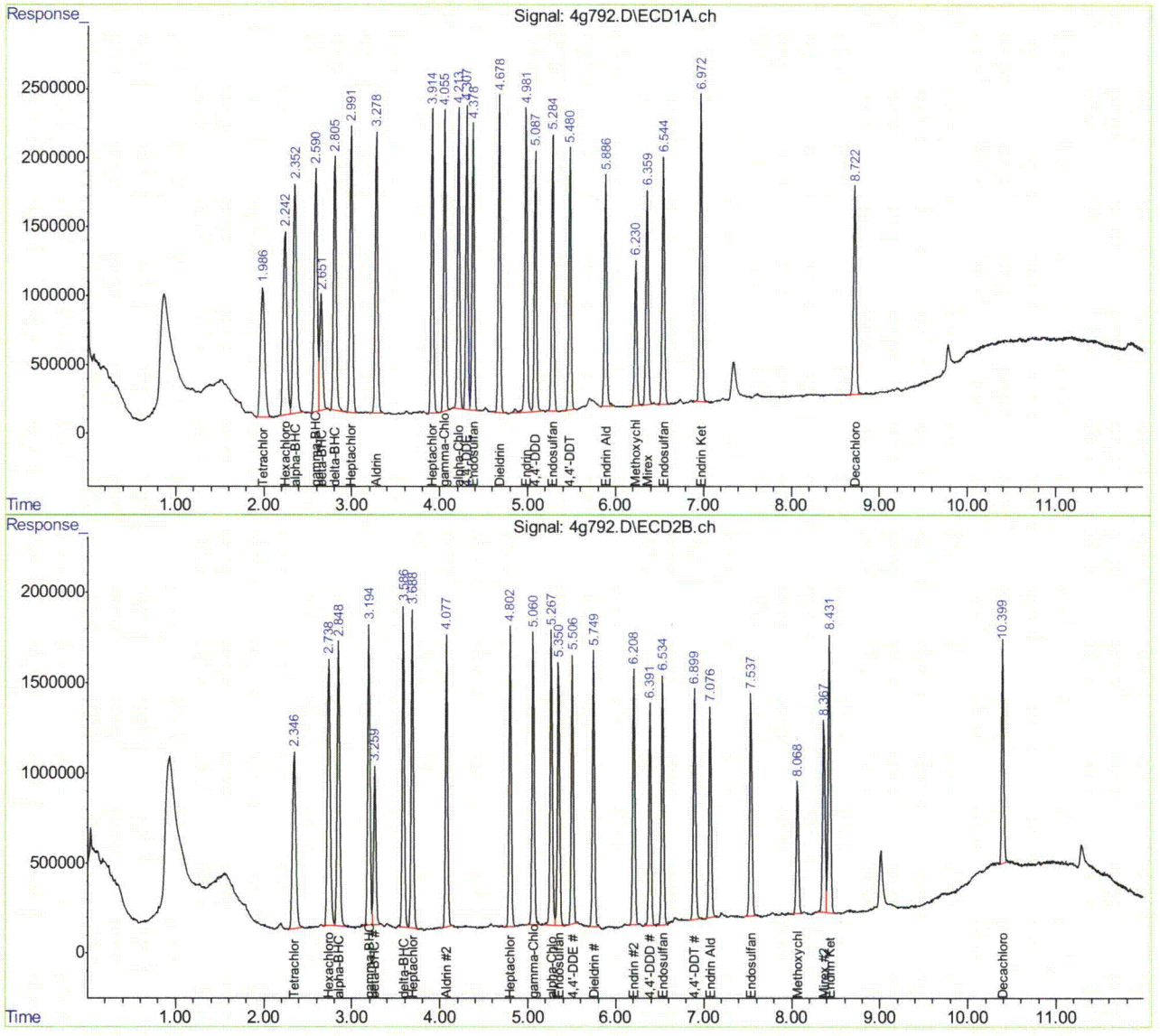
10.6.50 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\
Data File : 4g792.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2010 4:05 pm
Operator : owenm
Sample : cc19-10
Misc : op46202,g4g24,17.2,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 16:21:15 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Fri Oct 22 09:47:34 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.6.50 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\
Data File : 4g927.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Nov 2010 12:34 pm
Operator : owenm
Sample : cc19-25
Misc : op46354,g4g27,17.0,,,10,1000
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 13:43:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Mon Nov 01 09:27:25 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	1.978	2.336	79403935	64807587	23.815	22.895
	Spiked Amount	40.000	Range 30 - 150	Recovery =		59.54%	57.24%
34)	SA Decachlor...	8.716	10.386	70597285	43928135	22.567	21.561
	Spiked Amount	40.000	Range 30 - 150	Recovery =		56.42%	53.90%
	Target Compounds						
2)	Hexachlor...	2.233	2.728	93184664	79605999	22.817	22.459
3)	A alpha-BHC	2.346	2.838	112.8E6	82421146	23.995	25.397
4)	MA gamma-BHC	2.584	3.183	101.2E6	77274110	23.610	24.719
5)	MA Heptachlor	2.987	3.676	103.7E6	74280366	23.079	22.236
6)	B beta-BHC	2.644	3.250	50199162	38795105	23.742	22.694
7)	B delta-BHC	2.799	3.575	99886392	72053868	23.638	24.290
8)	MB Aldrin	3.273	4.065	96657990	66461796	23.705	24.730
9)	B Heptachlo...	3.909	4.788	92597490	65481881	23.157	22.466
10)	B gamma-Chl...	4.051	5.048	92112038	64868199	23.325	22.209
11)	B alpha-Chl...	4.207	5.253	89688108	63923851	22.944	22.095
12)	A Endosulfan I	4.374	5.336	86864114	59735795	22.993	22.383
13)	B 4,4'-DDE	4.302	5.493	88895737	59537943	23.813	24.587
14)	MA Dieldrin	4.673	5.734	94102133	63348403	23.651	22.767
15)	MA Endrin	4.976	6.191	89188470	58724107	23.840	22.546
16)	A 4,4'-DDD	5.083	6.376	78389198	51334706	24.346	23.098
17)	B Endosulfa...	5.279	6.519	82724023	57161314	23.082	22.576
18)	MA 4,4'-DDT	5.474	6.883	73925274	48920972	22.005	20.876
19)	B Endrin Al...	5.880	7.059	69151985	48877197	21.728	22.106
20)	B Endosulfa...	6.537	7.521	75790067	51412610	22.581	21.704
21)	A Methoxychlor	6.225	8.052	42077921	30281317	22.459	21.603
22)	Mirex	6.353	8.350	67130810	47389984	22.440	21.686
23)	B Endrin Ke...	6.965	8.413	96064296	66302832	22.969	21.936

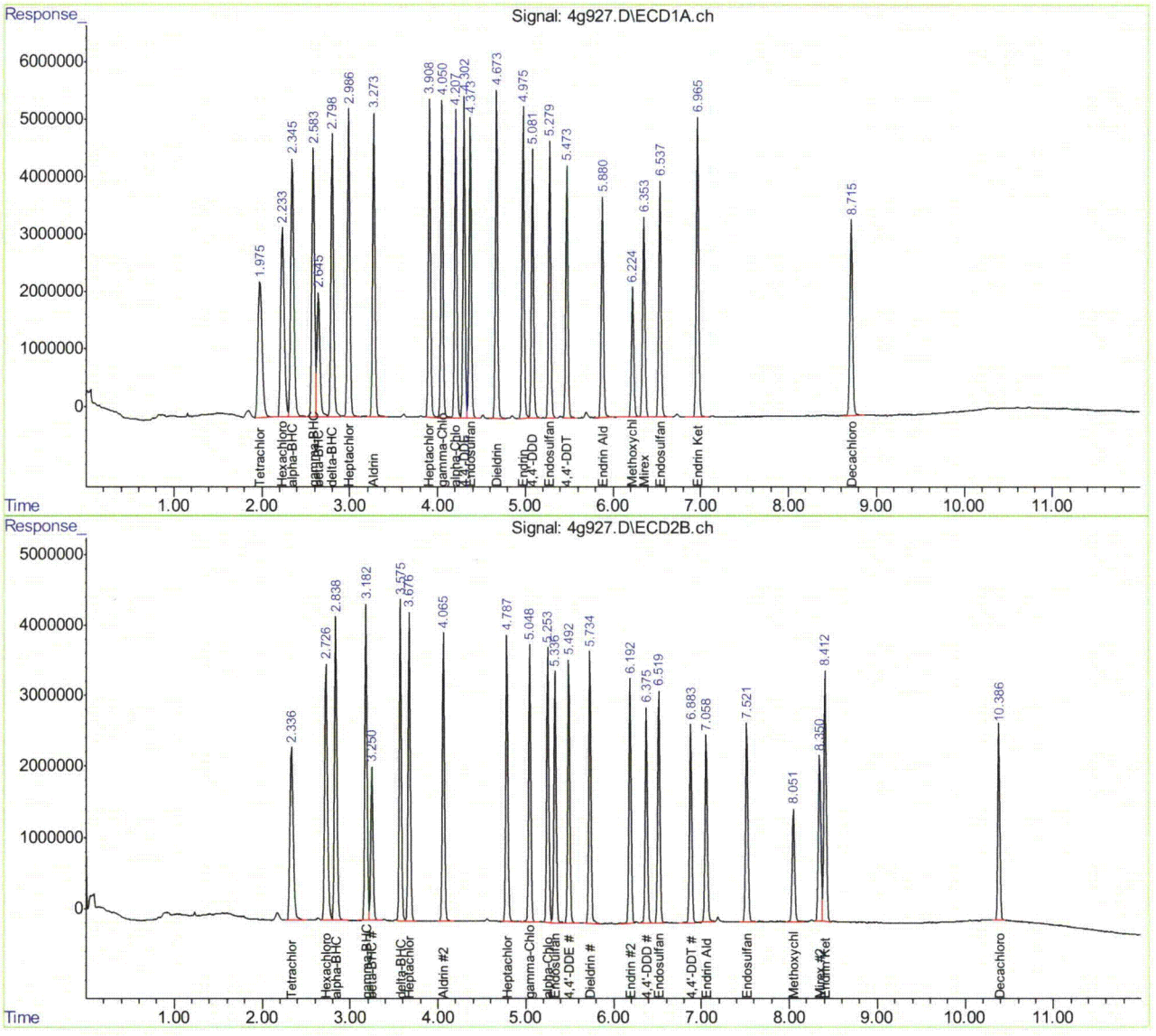
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\
Data File : 4g927.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Nov 2010 12:34 pm
Operator : owenm
Sample : cc19-25
Misc : op46354,g4g27,17.0,,,10,1000
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 13:43:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Mon Nov 01 09:27:25 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.6.51 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\
Data File : 4g949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Nov 2010 7:24 pm
Operator : owenm
Sample : cc19-25
Misc : op46373,g4g27,17.0,,,10,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 08:20:15 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Mon Nov 01 09:27:25 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	1.977	2.333	79912539	65659574	23.967	23.196
	Spiked Amount	40.000	Range 30 - 150		Recovery =	59.92%	57.99%
34)	SA Decachlor...	8.715	10.384	70601298	44903876	22.568	22.040
	Spiked Amount	40.000	Range 30 - 150		Recovery =	56.42%	55.10%
	Target Compounds						
2)	Hexachlor...	2.231	2.726	93487676	80555624	22.891	22.726
3)	A alpha-BHC	2.344	2.835	111.6E6	82874934	23.740	25.537
4)	MA gamma-BHC	2.583	3.180	100.5E6	77887555	23.442	24.916
5)	MA Heptachlor	2.985	3.674	104.0E6	76202602	23.157	22.812
6)	B beta-BHC	2.643	3.248	49995840	39301217	23.646	22.990
7)	B delta-BHC	2.797	3.572	93762830	69487794	22.189	23.425
8)	MB Aldrin	3.272	4.063	97292510	67407072	23.861	25.082
9)	B Heptachlo...	3.908	4.785	93394646	66682235	23.356	22.878
10)	B gamma-Chl...	4.050	5.045	92686621	65990196	23.470	22.593
11)	B alpha-Chl...	4.206	5.251	89773173	65280103	22.965	22.564
12)	A Endosulfan I	4.372	5.334	87651262	60719634	23.202	22.752
13)	B 4,4'-DDE	4.301	5.491	90295436	61151722	24.188	25.254
14)	MA Dieldrin	4.672	5.731	95062251	64548404	23.893	23.198
15)	MA Endrin	4.974	6.189	89778038	59687195	23.997	22.916
16)	A 4,4'-DDD	5.081	6.374	77606264	51688320	24.103	23.257
17)	B Endosulfa...	5.277	6.517	82096997	58039097	22.907	22.923
18)	MA 4,4'-DDT	5.474	6.880	74584799	50214244	22.201	21.427
19)	B Endrin Al...	5.879	7.057	69159379	49310964	21.731	22.302
20)	B Endosulfa...	6.537	7.518	71921014	48982480	21.429	20.678
21)	A Methoxychlor	6.224	8.049	41955469	30439679	22.393	21.716
22)	Mirex	6.352	8.347	66586628	48230137	22.259	22.070
23)	B Endrin Ke...	6.965	8.410	94445645	66568253	22.582	22.024

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

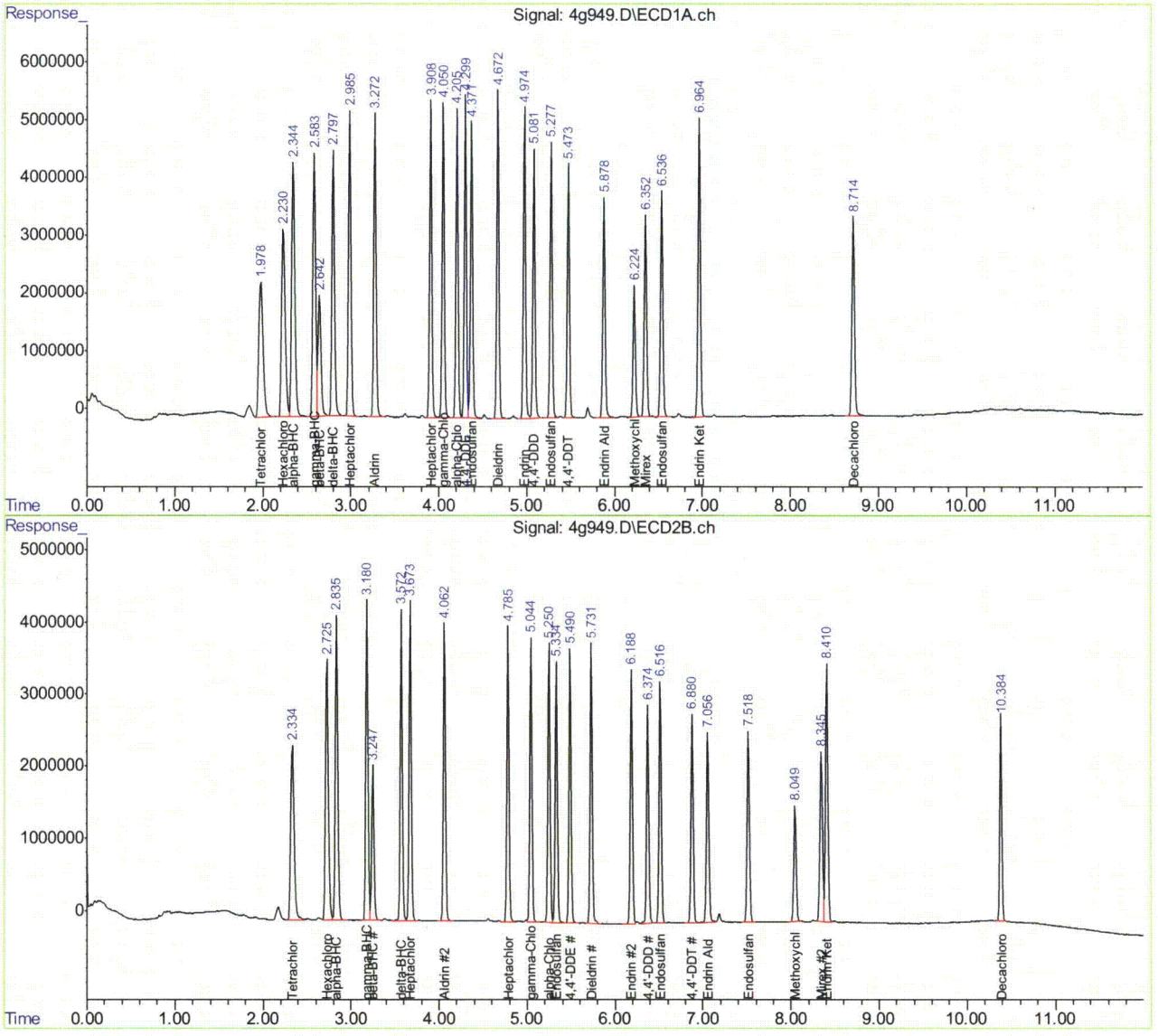
10.6.52 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\
Data File : 4g949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Nov 2010 7:24 pm
Operator : owenm
Sample : cc19-25
Misc : op46373,g4g27,17.0,,,10,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 08:20:15 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Mon Nov 01 09:27:25 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.6.52 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g29\
Data File : 4g1013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Nov 2010 9:25 am
Operator : owenm
Sample : cc19-10
Misc : op46474,g4g29,17.1,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 03 09:39:38 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Tue Nov 02 16:34:27 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	1.979	2.333	32026989	26242235	9.606	9.271
	Spiked Amount	40.000	Range 30 - 150	Recovery =		24.02%#	23.18%#
34)	SA Decachlor...	8.706	10.374	29781901	19423757	9.520	9.534
	Spiked Amount	40.000	Range 30 - 150	Recovery =		23.80%#	23.84%#
	Target Compounds						
2)	Hexachlor...	2.233	2.723	39267391	33745598	9.615	9.520
3)	A alpha-BHC	2.344	2.832	45294411	31563854	9.632	9.726
4)	MA gamma-BHC	2.582	3.176	40560226	30006454	9.464	9.599
5)	MA Heptachlor	2.983	3.668	42611952	30144330	9.486	9.024
6)	B beta-BHC	2.642	3.243	21161733	16045194	10.009	9.386
7)	B delta-BHC	2.796	3.566	39823937	27720522	9.424	9.345
8)	MB Aldrin	3.269	4.056	39071415	26063396	9.582	9.698
9)	B Heptachlo...	3.903	4.776	37733984	26580557	9.436	9.119
10)	B gamma-Chl...	4.044	5.036	37715337	26117901	9.550	8.942
11)	B alpha-Chl...	4.201	5.241	37795410	26415394	9.669	9.131
12)	A Endosulfan I	4.367	5.324	35502097	24090491	9.398	9.027
13)	B 4,4'-DDE	4.295	5.480	35573952	23421682	9.529	9.672
14)	MA Dieldrin	4.665	5.721	38075736	25303633	9.570	9.094
15)	MA Endrin	4.967	6.178	36909446	24160549	9.866	9.276
16)	A 4,4'-DDD	5.074	6.362	31401510	20467173	9.753	9.209
17)	B Endosulfa...	5.270	6.505	33762516	23386716	9.421	9.237
18)	MA 4,4'-DDT	5.465	6.869	30971252	20514665	9.219	8.754
19)	B Endrin Al...	5.871	7.044	29115615	20180246	9.148	9.127
20)	B Endosulfa...	6.527	7.505	31757216	21259458	9.462	8.975
21)	A Methoxychlor	6.215	8.036	18125604	12784044	9.674	9.120
22)	Mirex	6.344	8.334	28854534	21023136	9.645	9.620
23)	B Endrin Ke...	6.955	8.396	39986218	27229636	9.561	9.009

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

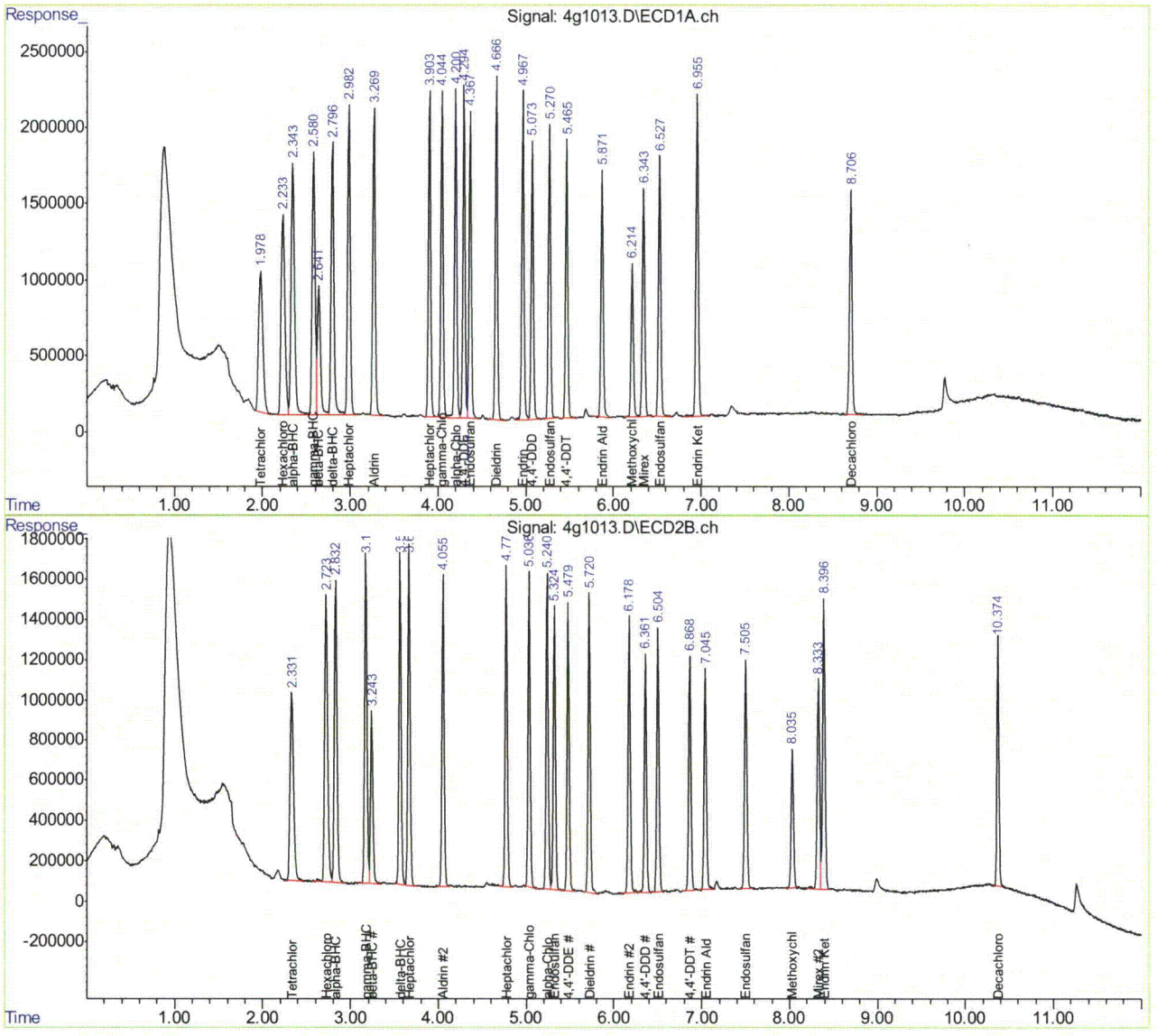
10.6.53 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g29\
Data File : 4g1013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Nov 2010 9:25 am
Operator : owenm
Sample : cc19-10
Misc : op46474,g4g29,17.1,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 03 09:39:38 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Tue Nov 02 16:34:27 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.6.53 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g29\
Data File : 4g1024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Nov 2010 12:48 pm
Operator : owenm
Sample : cc19-25
Misc : op46373,g4g29,17.4,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 03 13:35:17 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Tue Nov 02 16:34:27 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	SAB Tetrachlo...	1.977	2.331	77885323	65074569	23.359	22.990
	Spiked Amount	40.000	Range 30 - 150	Recovery =		58.40%	57.48%
34)	SA Decachlor...	8.704	10.372	67985289	44688899	21.732	21.934
	Spiked Amount	40.000	Range 30 - 150	Recovery =		54.33%	54.84%
	Target Compounds						
2)	Hexachlor...	2.231	2.723	92321783	80333006	22.606	22.664
3)	A alpha-BHC	2.342	2.831	113.4E6	85147823	24.106	26.237
4)	MA gamma-BHC	2.580	3.175	101.5E6	78844841	23.692	25.222
5)	MA Heptachlor	2.981	3.667	104.7E6	76526623	23.312	22.909
6)	B beta-BHC	2.640	3.242	47779167	38662565	22.598	22.616
7)	B delta-BHC	2.794	3.566	100.1E6	76496864	23.697	25.787
8)	MB Aldrin	3.267	4.055	97104901	68210919	23.815	25.381
9)	B Heptachlo...	3.901	4.775	92634776	67275338	23.166	23.081
10)	B gamma-Chl...	4.043	5.035	91827517	66874901	23.253	22.896
11)	B alpha-Chl...	4.199	5.240	89767143	65901143	22.964	22.779
12)	A Endosulfan I	4.365	5.323	86567717	60771360	22.915	22.771
13)	B 4,4'-DDE	4.293	5.479	89162803	61325450	23.884	25.325
14)	MA Dieldrin	4.663	5.720	94815319	65350167	23.831	23.486
15)	MA Endrin	4.965	6.176	91132603	60904378	24.359	23.383
16)	A 4,4'-DDD	5.072	6.361	78347642	52682833	24.333	23.705
17)	B Endosulfa...	5.268	6.503	82850608	58503588	23.117	23.106
18)	MA 4,4'-DDT	5.464	6.867	77378033	52561987	23.032	22.429
19)	B Endrin Al...	5.869	7.043	68717412	48794822	21.592	22.069
20)	B Endosulfa...	6.525	7.503	76082918	52487869	22.669	22.158
21)	A Methoxychlor	6.214	8.034	42393943	30876671	22.627	22.027
22)	Mirex	6.342	8.332	66025701	48708428	22.071	22.289
23)	B Endrin Ke...	6.953	8.394	96537610	69219540	23.083	22.901

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

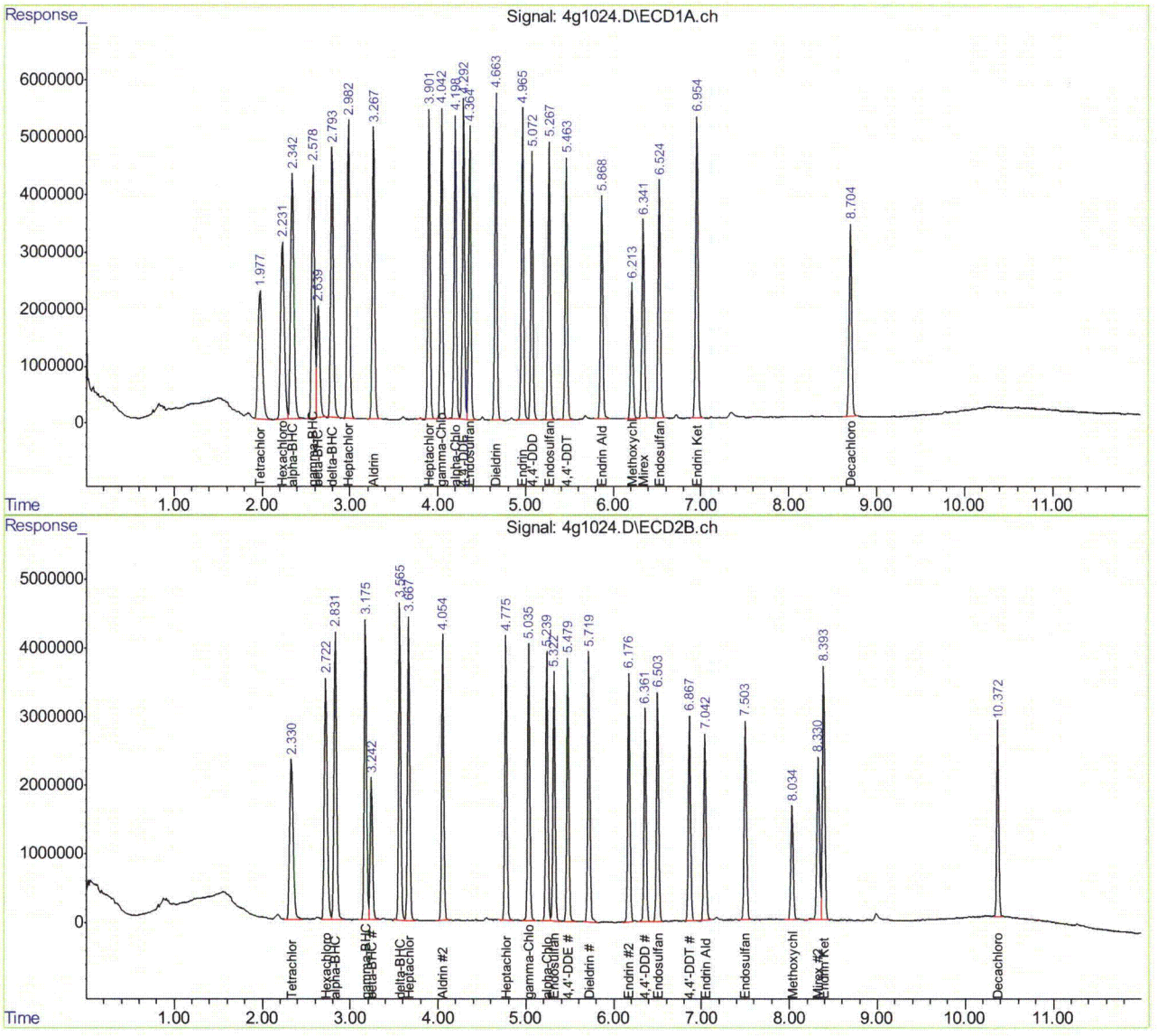
10.6.54 10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g29\
Data File : 4g1024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Nov 2010 12:48 pm
Operator : owenm
Sample : cc19-25
Misc : op46373,g4g29,17.4,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 03 13:35:17 2010
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M
Quant Title : PEST/PCB
QLast Update : Tue Nov 02 16:34:27 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.6.54
10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93561.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93561.D\ECD2B.CH
Acq On : 14 Oct 2010 9:34 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:14 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:14:23 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.16	3.11	773026	825243	48.973	43.218
	Spiked Amount 40.000			Recovery =		122.43%	108.05%
51) S	Decachlorobiphen	11.60	12.08	727298	884578	42.287	41.298
	Spiked Amount 40.000			Recovery =		105.72%	103.25%
	Target Compounds						
2)	AR1221-A	2.43	2.50	184982	263517	1000.000	1000.000
3)	AR1221-B	3.40	3.50	190690	224625	1000.000	1000.000
4)	AR1221-C	3.67	3.79	654745	692367	1000.000	1000.000
5)	AR1221-D	4.19	4.38	51544	94288	1000.000	1000.000
6)	AR1221-E	4.89	5.05	78538	85593	1000.000	1000.000

10.6.55 10

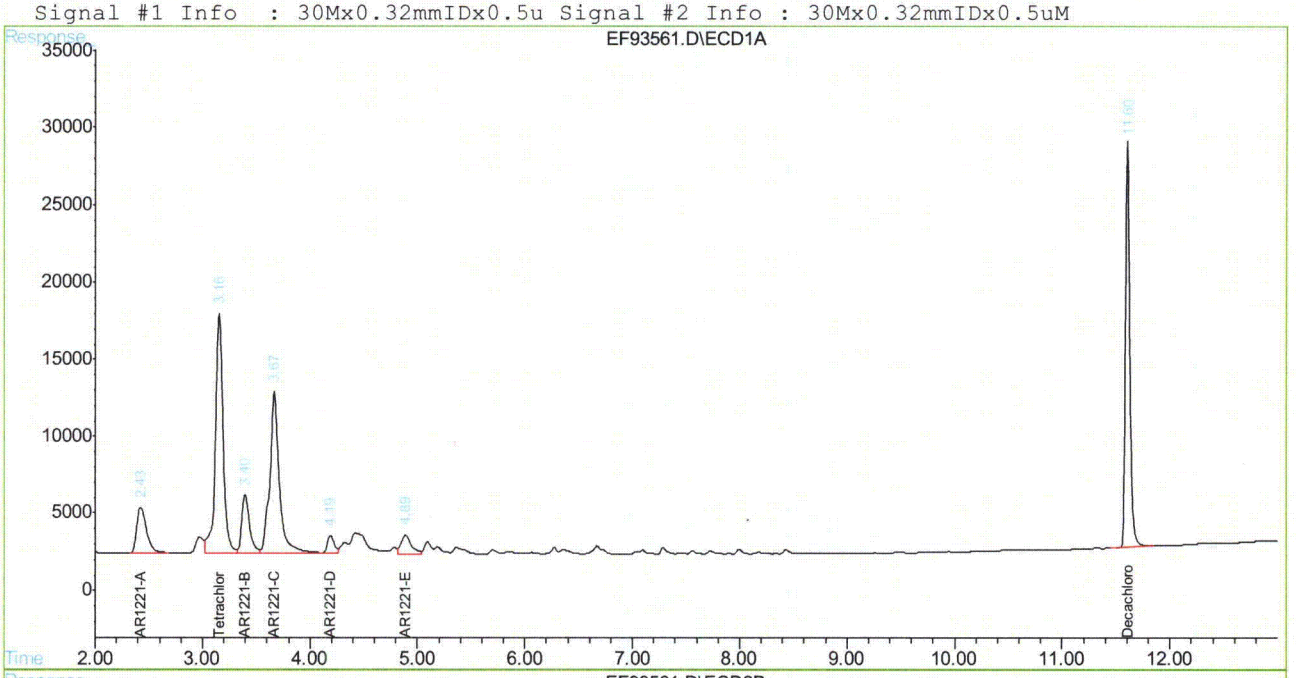
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93561.D PCB4061.M Thu Oct 14 14:54:59 2010 GCEF

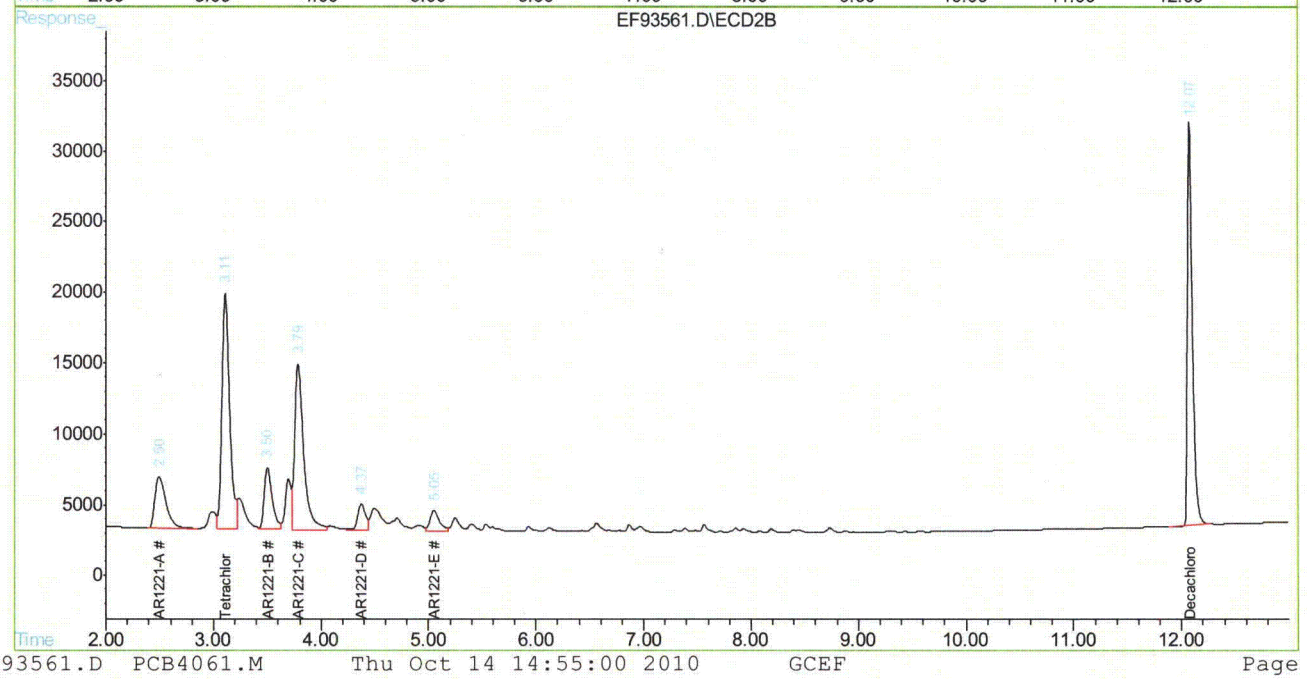
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93561.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93561.D\ECD2B.CH
Acq On : 14 Oct 2010 9:34 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:14 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:14:23 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.55 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93562.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93562.D\ECD2B.CH
Acq On : 14 Oct 2010 9:51 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:17 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:15:27 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.16	3.11	595915	619878	39.604	33.986
	Spiked Amount 40.000			Recovery =		99.01%	84.96%
51) S	Decachlorobiphen	11.60	12.08	593078	721827	35.883	34.852
	Spiked Amount 40.000			Recovery =		89.71%	87.13%
	Target Compounds						
7)	AR1232-A	3.67	3.79	545748	621352	1000.000	1000.000
8)	AR1232-B	4.19	4.37	350048	445606	1000.000	1000.000
9)	AR1232-C	4.89	5.04	654404	723439	1000.000	1000.000
10)	AR1232-D	5.09	5.24	261268	345688	1000.000	1000.000
11)	AR1232-E	5.70	5.93	245955	301723	1000.000	1000.000

10.6.56 10

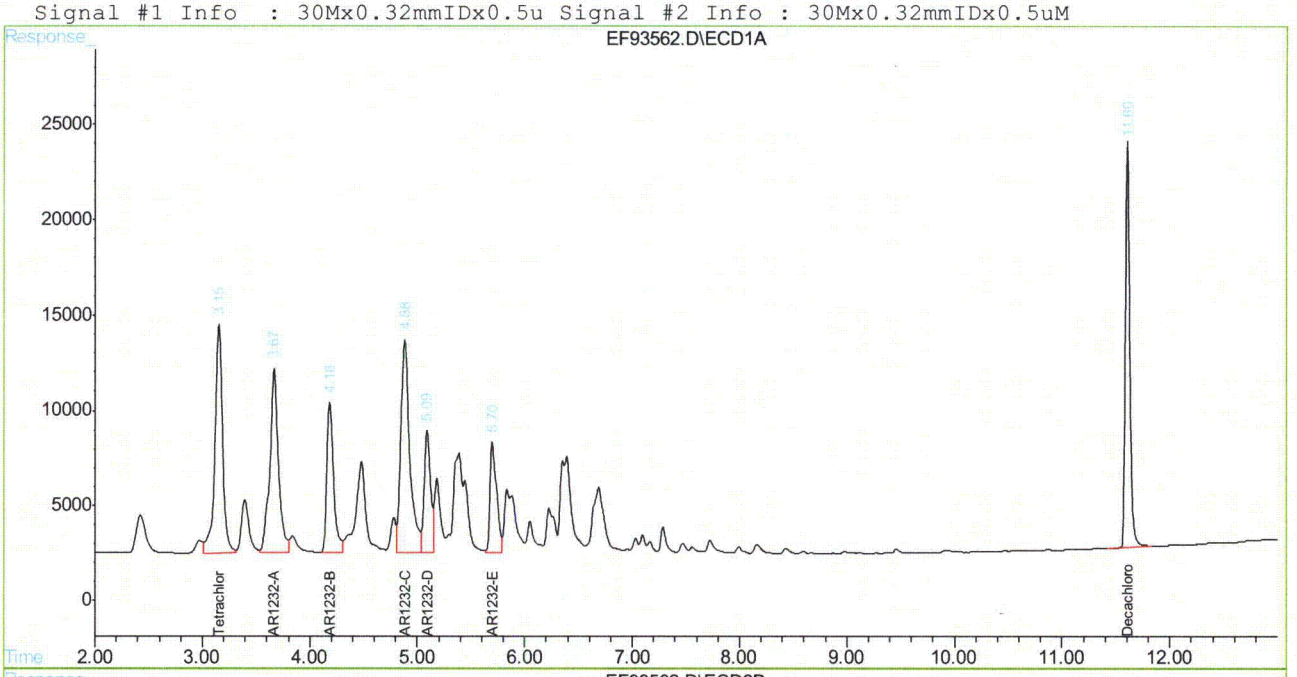
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93562.D PCB4061.M Thu Oct 14 14:55:12 2010 GCEF

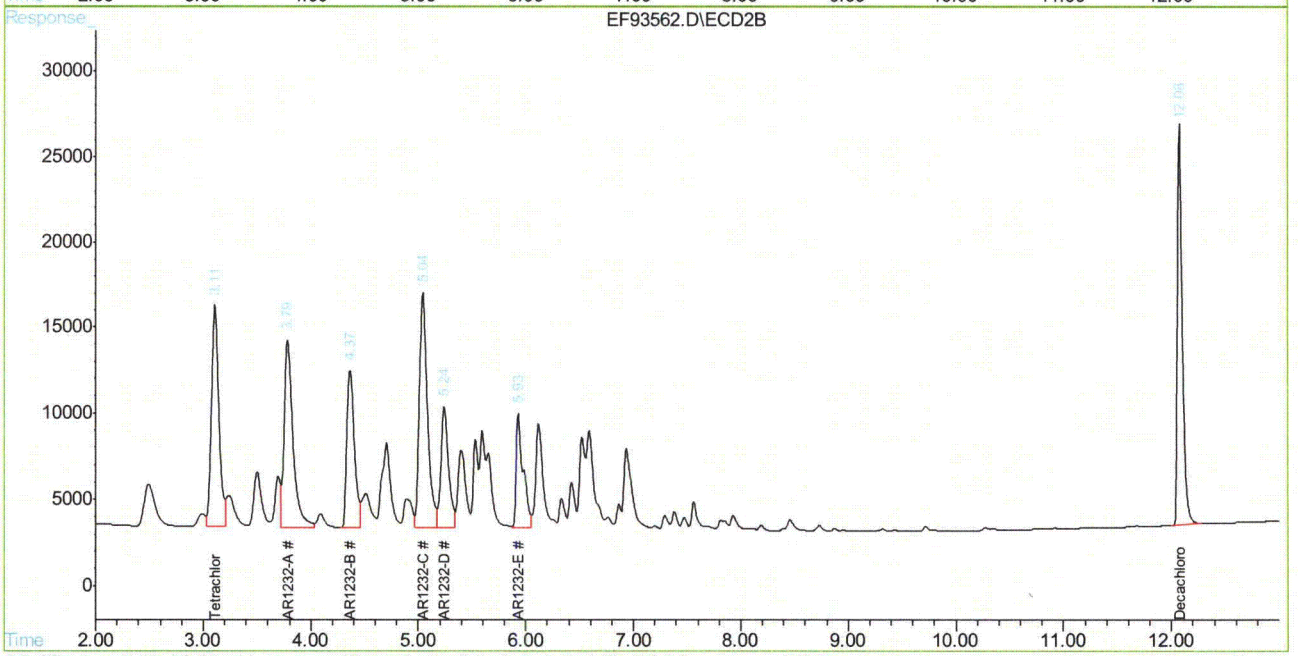
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93562.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93562.D\ECD2B.CH
Acq On : 14 Oct 2010 9:51 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:17 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:15:27 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.56 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93563.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93563.D\ECD2B.CH
Acq On : 14 Oct 2010 10:09 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:18 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:18:17 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.16	3.11	624691	687186	41.188	37.106
	Spiked Amount 40.000			Recovery =		102.97%	92.77%
51)	S Decachlorobiphen	11.61	12.08	665716	812452	39.412	38.470
	Spiked Amount 40.000			Recovery =		98.53%	96.17%
	Target Compounds						
12)	AR1242-A	4.18	4.37	609313	780723	1000.000	1000.000
13)	AR1242-B	4.89	5.04	1210182	1366033	1000.000	1000.000
14)	AR1242-C	5.39	5.60	867672	760548	1000.000	1044.740
15)	AR1242-D	5.70	5.93	503131	634604	1000.000	1000.000
16)	AR1242-E	6.39	6.59	765026	637156	1000.000	1000.000

10.6.57 10

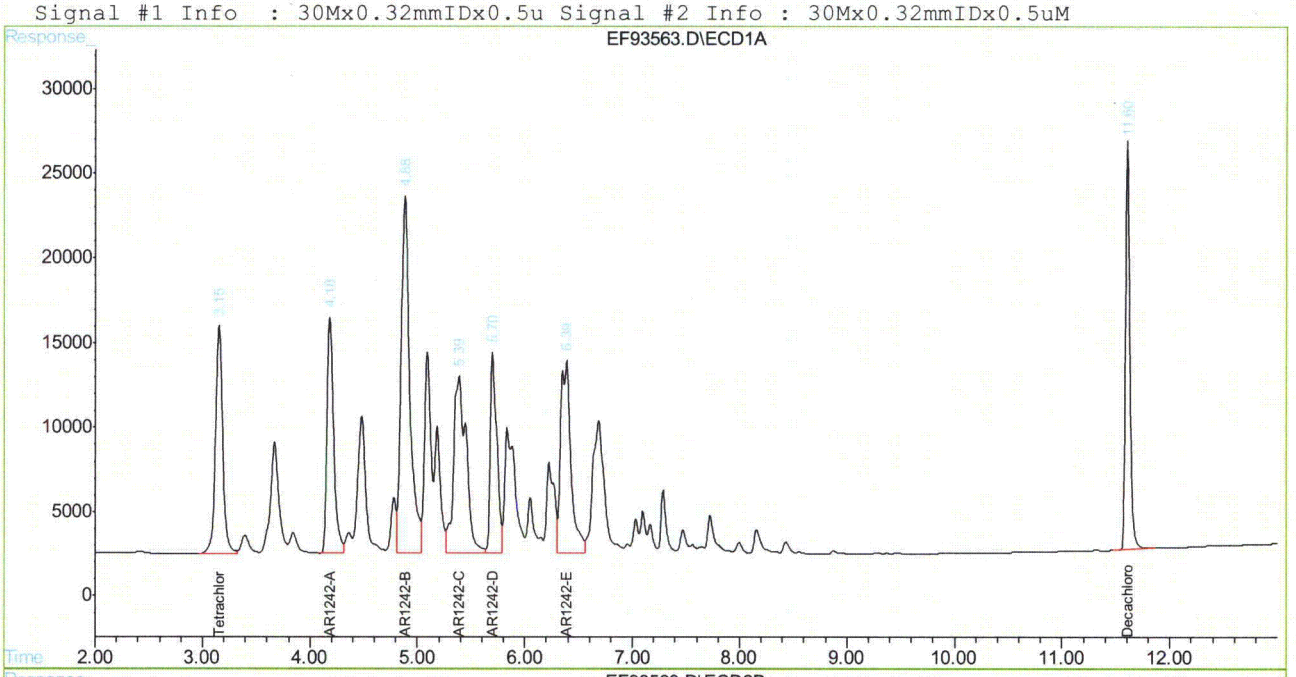
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93563.D PCB4061.M Thu Oct 14 14:55:22 2010 GCEF

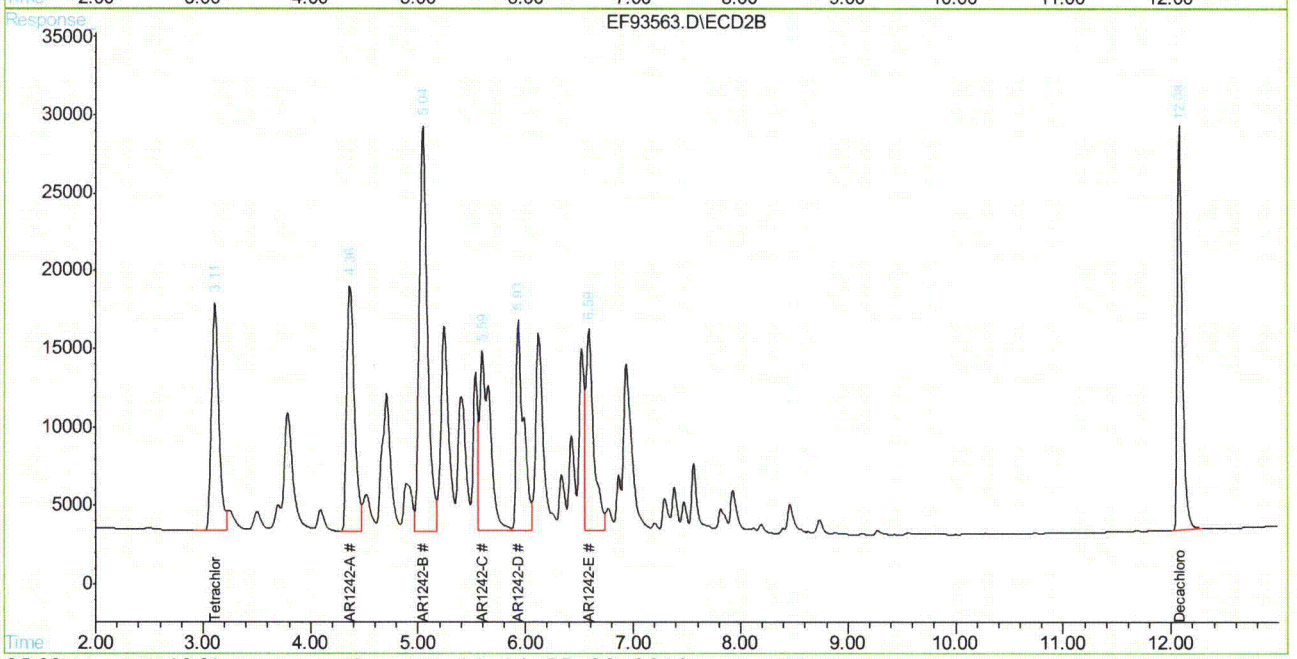
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93563.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93563.D\ECD2B.CH
Acq On : 14 Oct 2010 10:09 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:18 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:18:17 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.57 10

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao 10/15/10 10:16

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD2B.CH
Acq On : 14 Oct 2010 10:26 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:25 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:24:48 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.15	3.11	613100	739123	40.553	39.449
	Spiked Amount 40.000			Recovery	=	101.38%	98.62%
51)	S Decachlorobiphen	11.60	12.08	691462	848285	40.626	39.885
	Spiked Amount 40.000			Recovery	=	101.57%	99.71%
	Target Compounds						
17)	AR1248-A	4.18	4.36	291916	370997	1000.000	1000.000
18)	AR1248-B	4.88	5.04	766164	795885	1000.000	1000.000
19)	AR1248-C	5.38	5.60	870519	1137480	1012.027m	1000.000
20)	AR1248-D	5.70	5.93	771150	1012863	1000.000	1000.000
21)	AR1248-E	5.83	6.12	708191	871816	1000.000	1000.000
22)	AR1248-F	6.38	6.58	1314274	1906880	1000.000	1000.000
23)	AR1248-G	6.68	6.93	1193265	1178024	1000.000	1029.755m

10.6.58 10

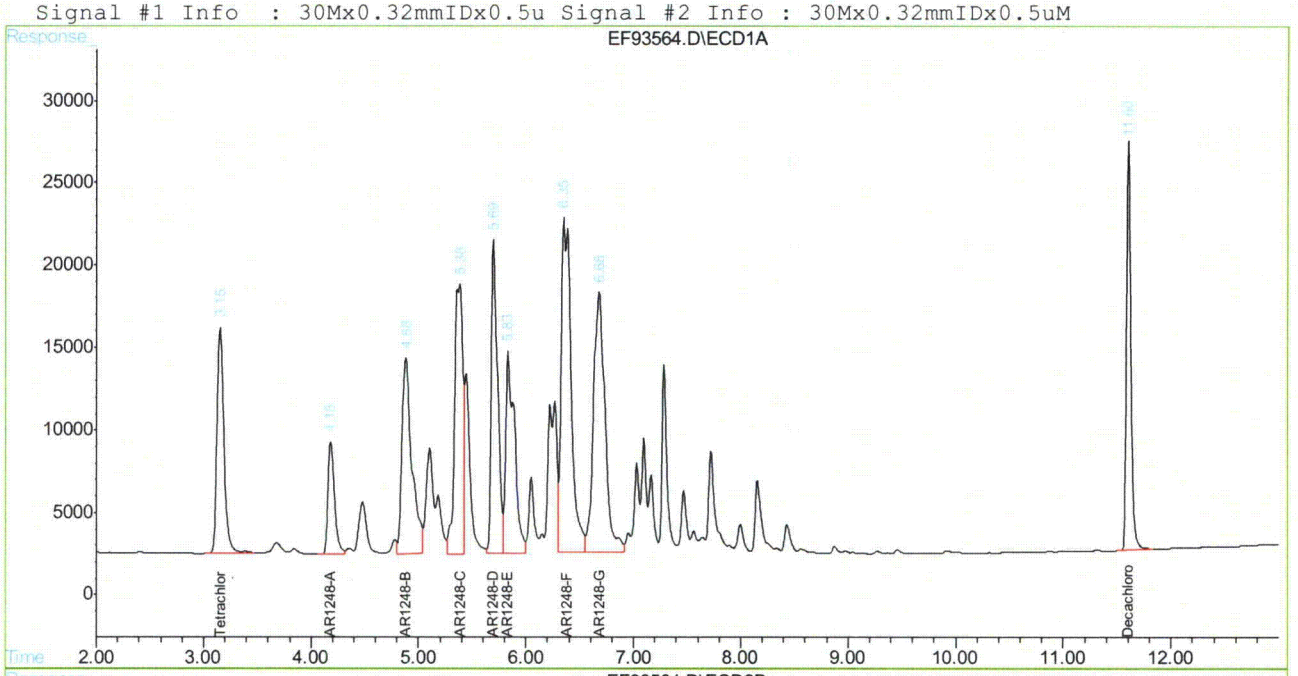
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93564.D PCB4061.M Thu Oct 14 14:55:32 2010 GCEF

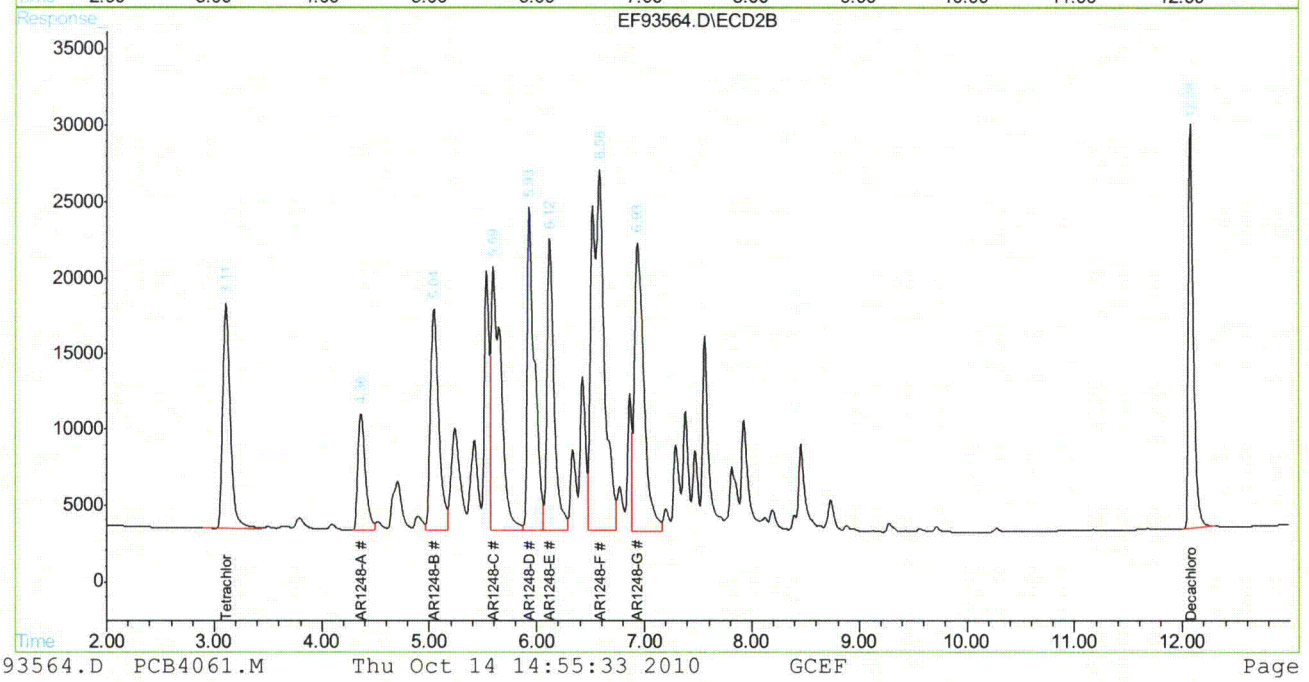
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD2B.CH
Acq On : 14 Oct 2010 10:26 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:25 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:24:48 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.58 10

Manual Integration Approval Summary

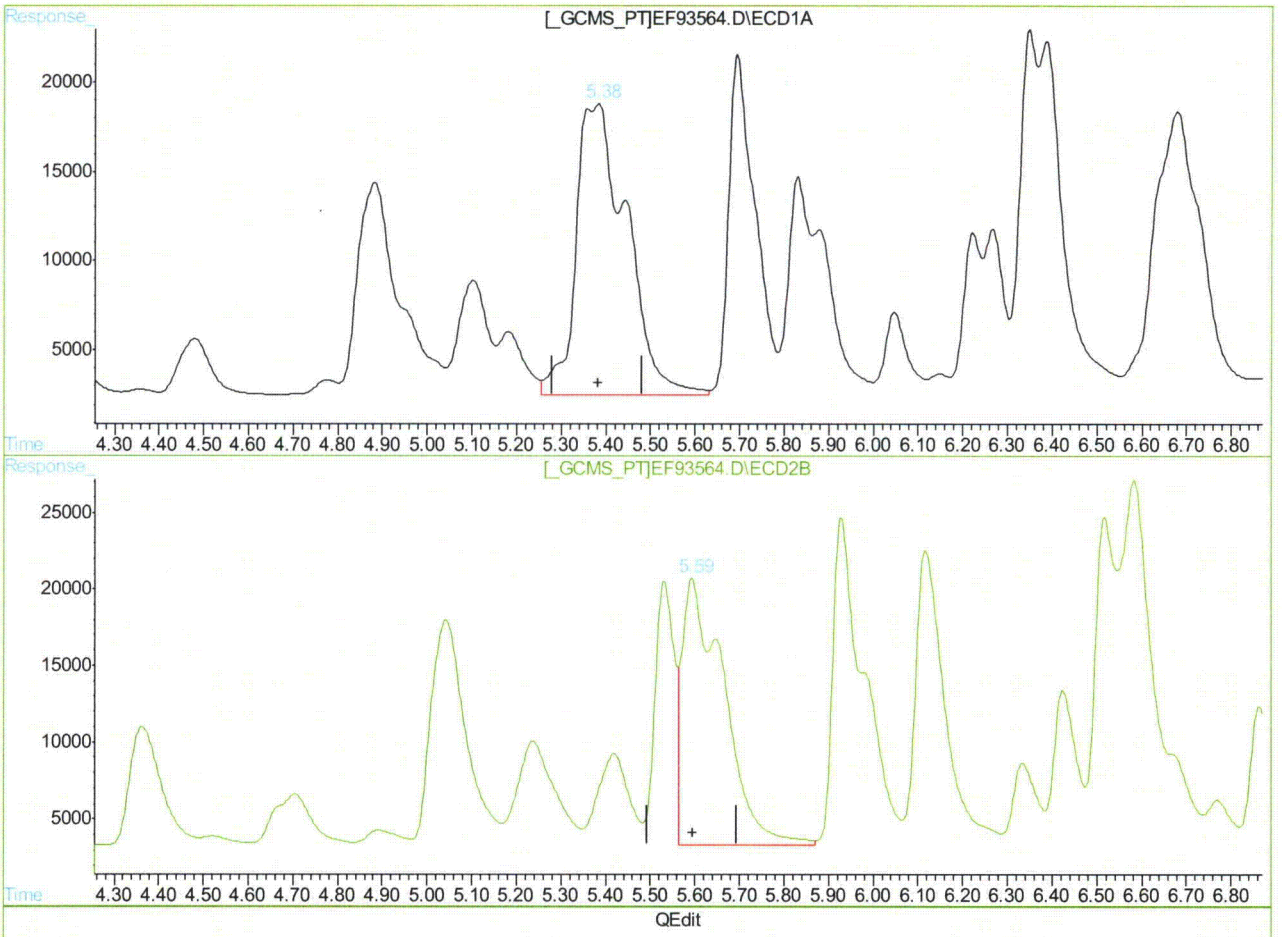
Sample Number: GEF4061-IC4061
Lab FileID: EF93564.D
Injection Time: 10/14/10 10:26
Method: SW846 8082
Analyst approved: 10/14/10 17:37 Vincent Drago
Supervisor approved: 10/15/10 10:16 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1248-C		1	5.38	Poor instrument integration
Ar1248-G		2	6.93	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD2B.CH
Acq On : 14 Oct 2010 10:26 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:24 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:24:48 2010
Response via : Single Level Calibration



(19) AR1248-C

5.38min 1478.120PPB

response 1271440

(19) AR1248-C #2

5.60min 1000.000PPB

response 1137480

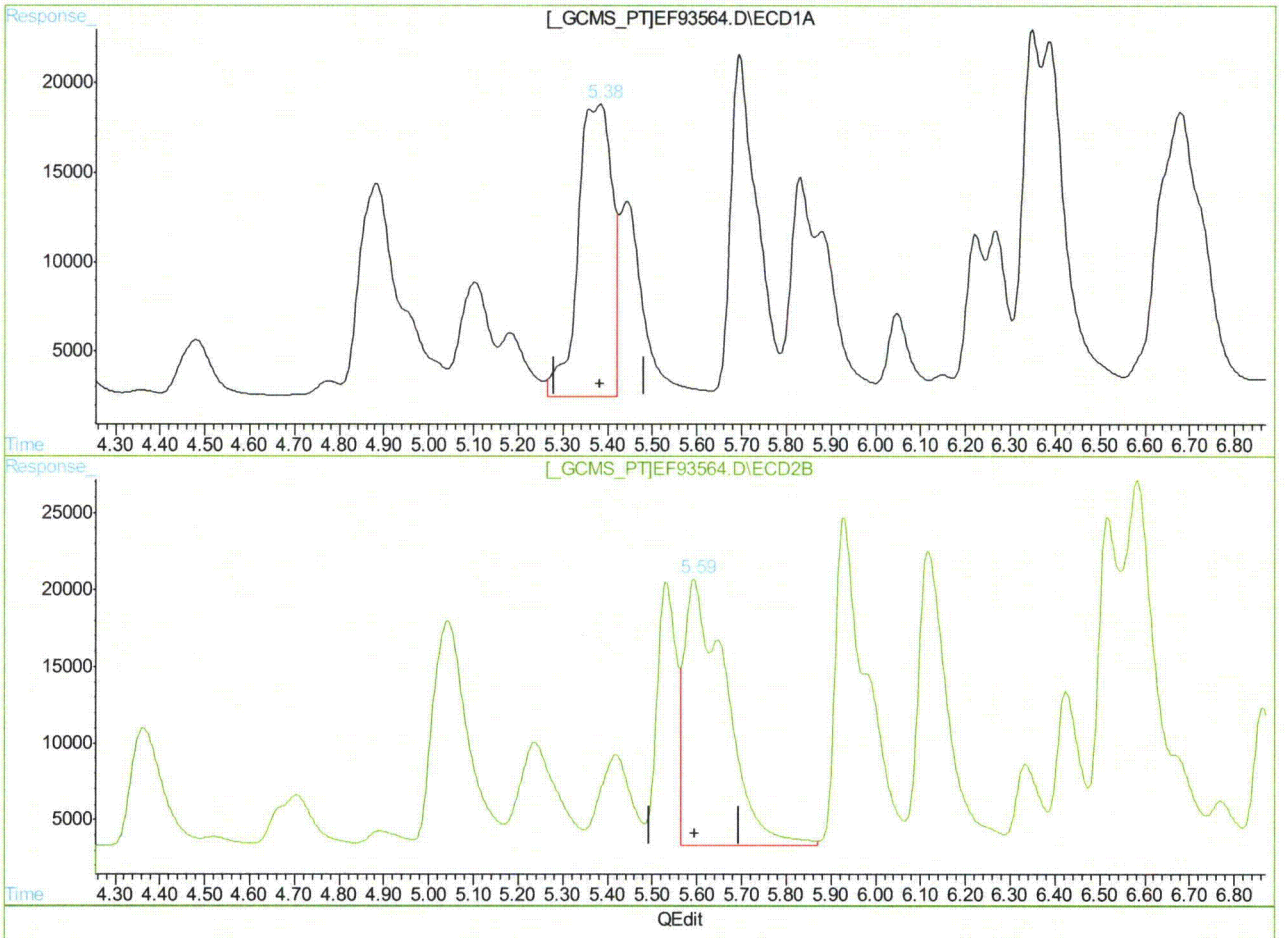
(+) = Expected Retention Time
EF93564.D PCB4061.M Thu Oct 14 14:25:13 2010 GCEF

10.6.58.2 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD2B.CH
Acq On : 14 Oct 2010 10:26 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:24 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:24:48 2010
Response via : Single Level Calibration



(19) AR1248-C

5.38min 1012.027PPB m

response 870519

(19) AR1248-C #2

5.60min 1000.000PPB

response 1137480

(+) = Expected Retention Time
EF93564.D PCB4061.M Thu Oct 14 14:25:26 2010 GCEF

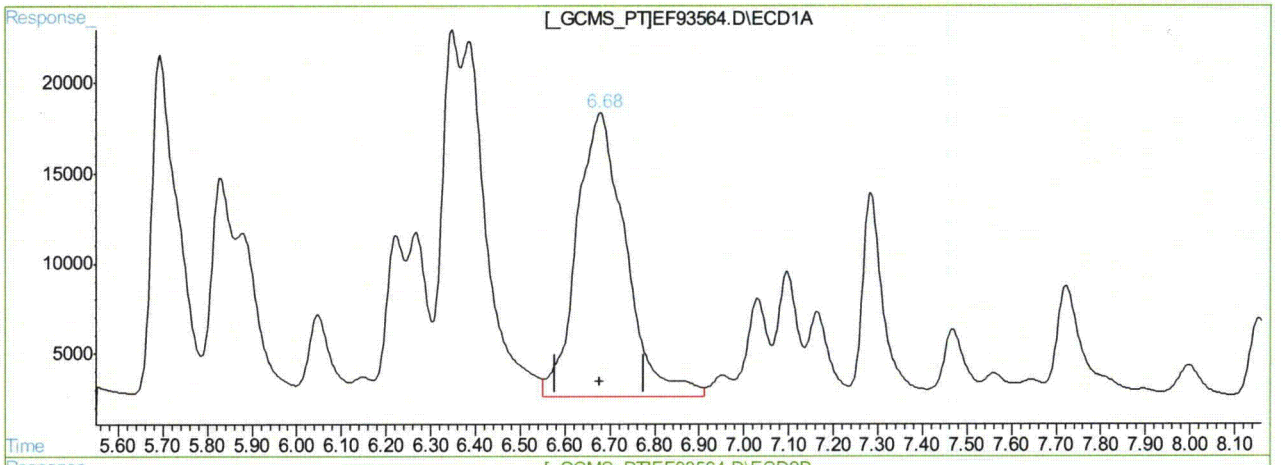
10.6.58.3 10

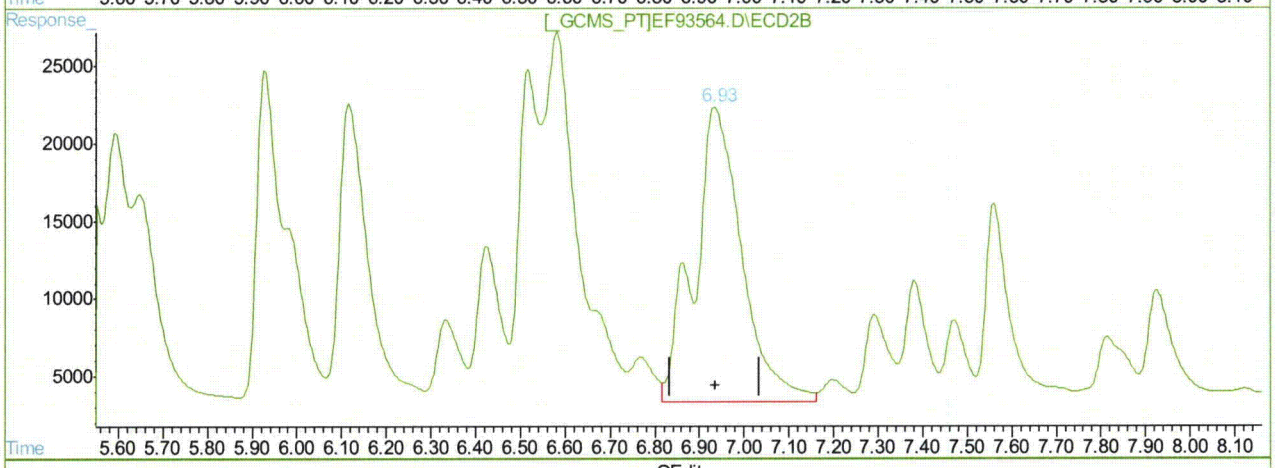
EF93564.D edits: AR1248-C

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD2B.CH
Acq On : 14 Oct 2010 10:26 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:24 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:24:48 2010
Response via : Single Level Calibration





QEdit

(23) AR1248-G

6.68min 1000.000PPB

response 1193265

(23) AR1248-G #2

6.94min 1229.955PPB

response 1407050

(+) = Expected Retention Time
EF93564.D PCB4061.M Thu Oct 14 14:25:34 2010 GCEF

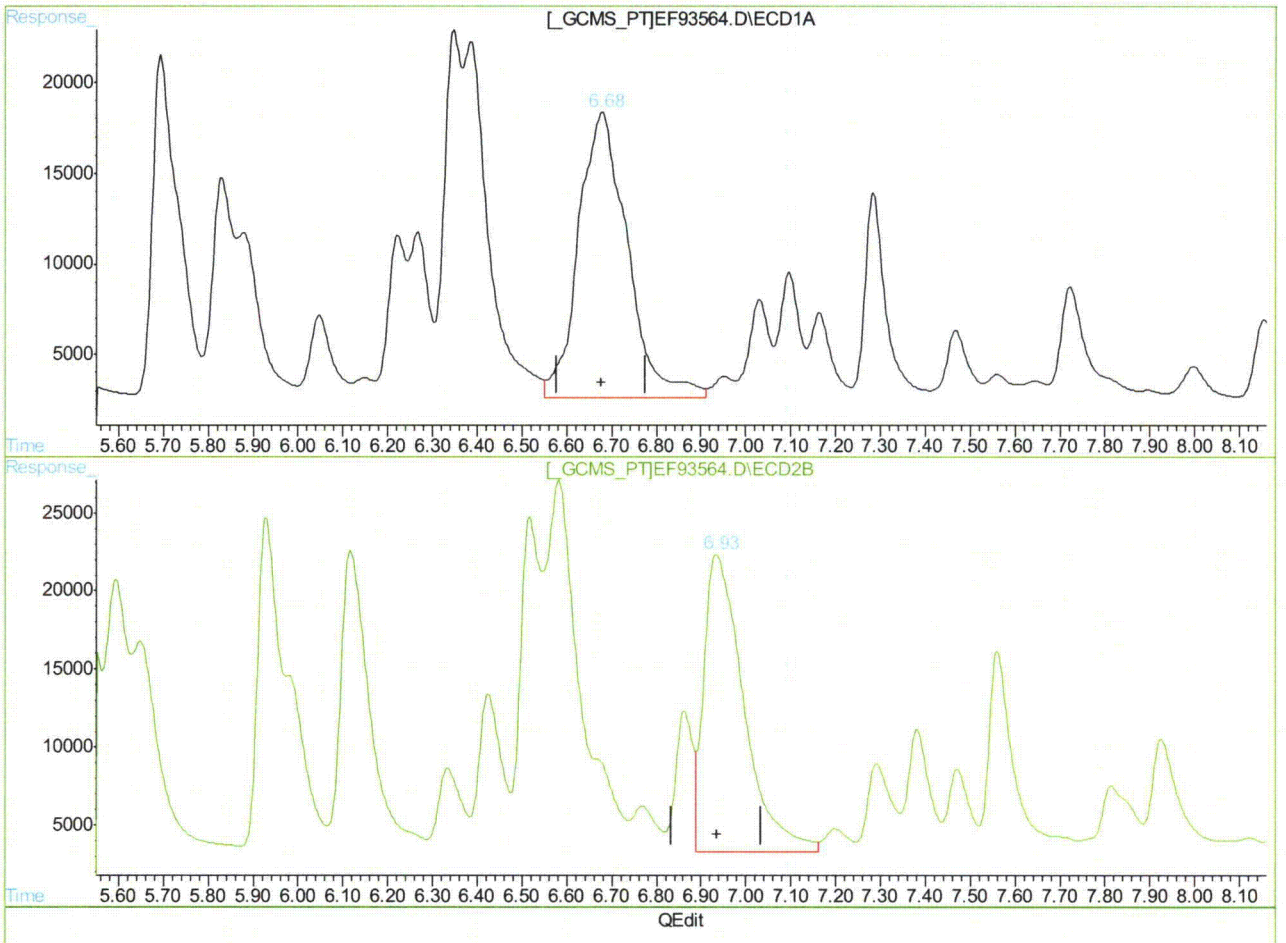
10.6.58.4 10

EF93564.D edits: AR1248-G

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93564.D\ECD2B.CH
Acq On : 14 Oct 2010 10:26 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:24 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:24:48 2010
Response via : Single Level Calibration



(23) AR1248-G

6.68min 1000.000PPB

response 1193265

(23) AR1248-G #2

6.93min 1029.755PPB m

response 1178024

(+) = Expected Retention Time
EF93564.D PCB4061.M Thu Oct 14 14:25:47 2010 GCEF

10.6.58.5 10

EF93564.D edits: AR1248-G

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93565.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93565.D\ECD2B.CH
Acq On : 14 Oct 2010 10:43 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:30 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:30:05 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.15	3.11	616625	752359	40.747	40.038
	Spiked Amount 40.000			Recovery	=	101.87%	100.10%
51) S	Decachlorobiphen	11.61	12.08	706206	875507	41.314	40.947
	Spiked Amount 40.000			Recovery	=	103.29%	102.37%
	Target Compounds						
24)	AR1254-A	6.27	6.56	644285	1266927	1000.000	1000.000
25)	AR1254-B	6.67	6.86	1172820	974417	1000.000	1000.000
26)	AR1254-C	7.10	7.38	646312	722364	1000.000	1000.000
27)	AR1254-D	7.28	7.56	1198570	1577749	1000.000	1000.000
28)	AR1254-E	7.72	8.19	871637	703043	1000.000	1000.000
29)	AR1254-F	7.99	8.45	833606	1068937	1000.000	1000.000
30)	AR1254-G	8.43	8.73	1102915	1414185	1000.000	1000.000

10.6.59 10

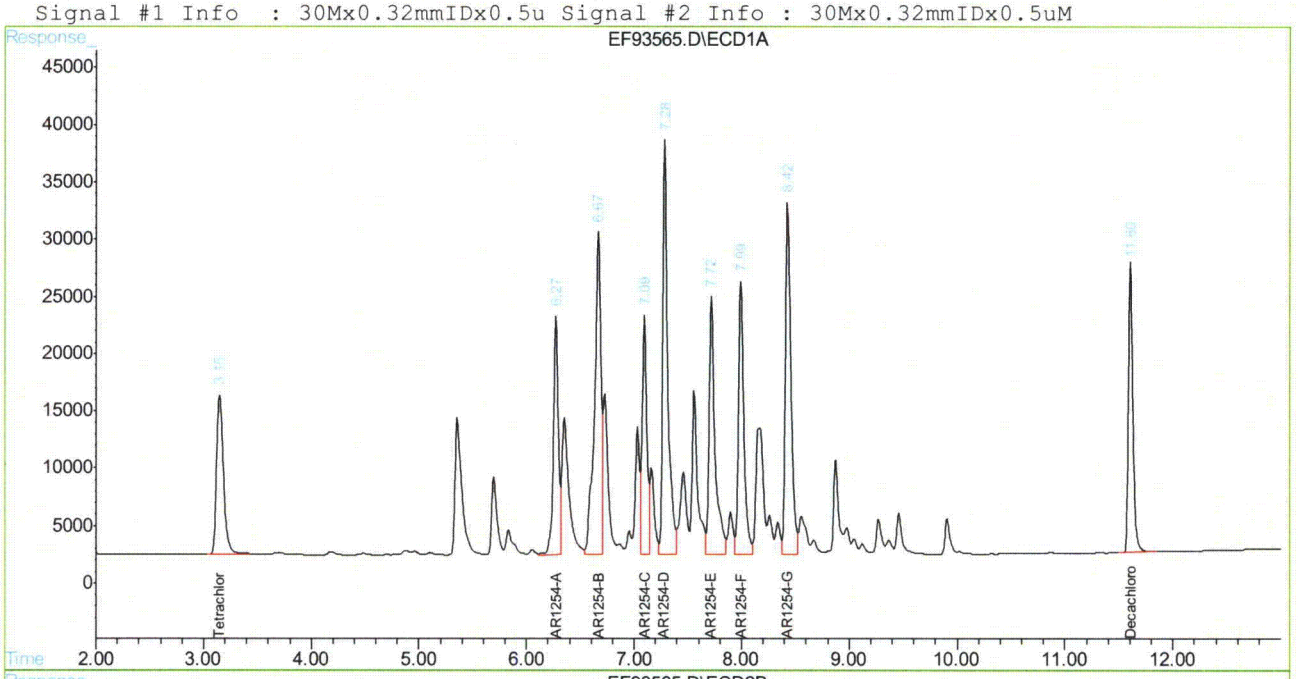
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93565.D PCB4061.M Thu Oct 14 14:55:45 2010 GCEF

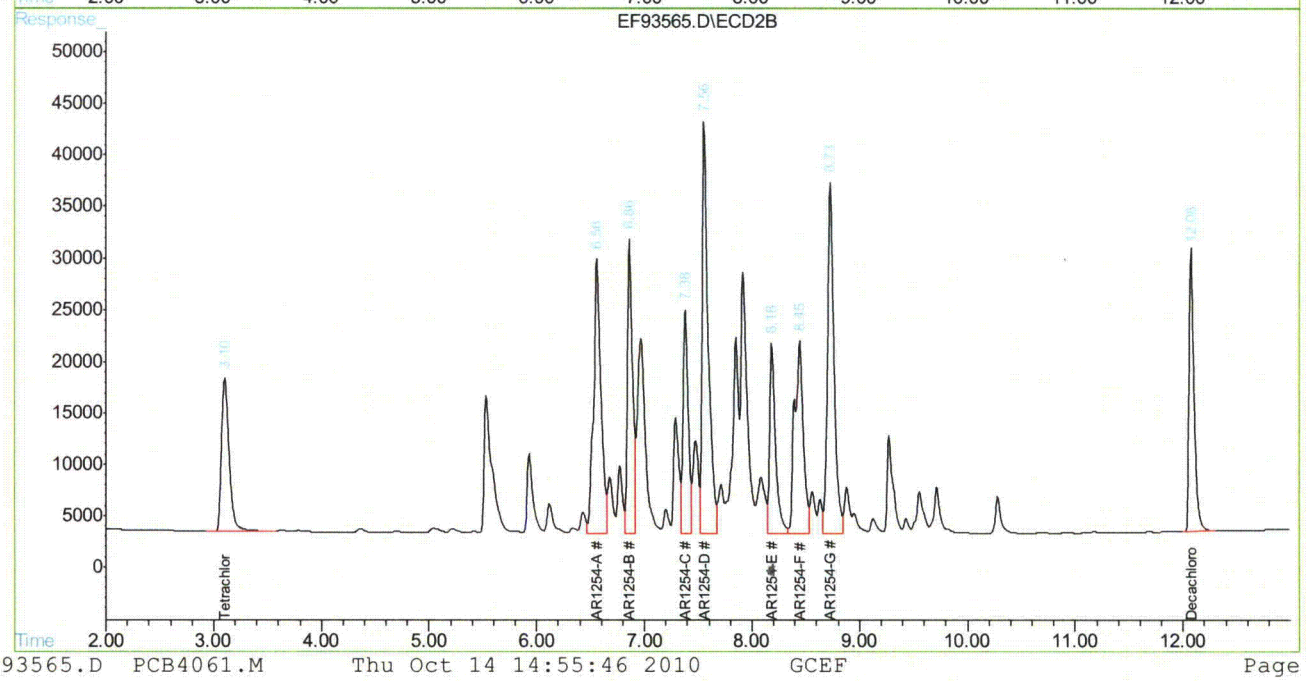
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93565.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93565.D\ECD2B.CH
Acq On : 14 Oct 2010 10:43 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:30 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:30:05 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93566.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93566.D\ECD2B.CH
Acq On : 14 Oct 2010 11:01 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:32 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:32:13 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.15	3.11	579952	705354	38.714	37.932
	Spiked Amount 40.000			Recovery =		96.78%	94.83%
51) S	Decachlorobiphen	11.61	12.08	679799	839638	40.078	39.546
	Spiked Amount 40.000			Recovery =		100.20%	98.87%
	Target Compounds						
31)	AR1262-A	7.99	8.19	848312	1087700	1000.000	1000.000
32)	AR1262-B	8.59	8.87	1101392	1375810	1000.000	1000.000
33)	AR1262-C	8.98	9.32	985156	1334794	1000.000	1000.000
34)	AR1262-D	9.46	9.72	2161749	2602658	1000.000	1000.000
35)	AR1262-E	9.94	10.28	2544833	3150707	1000.000	1000.000

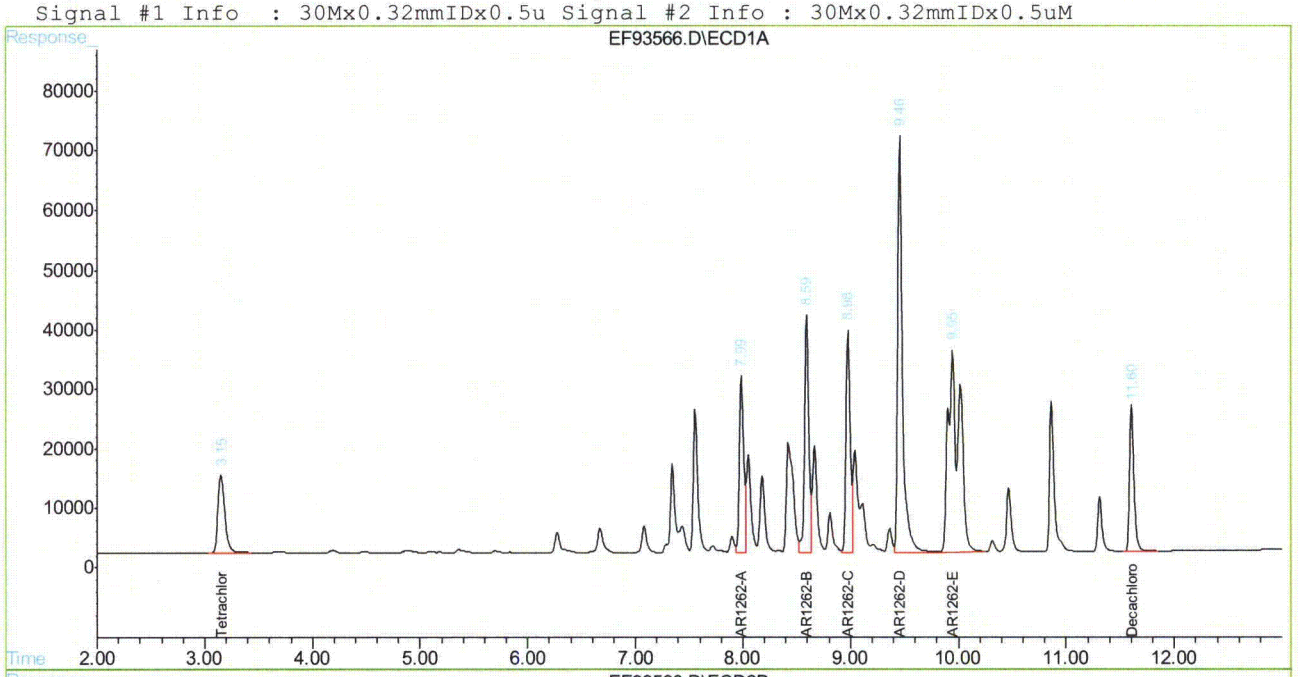
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93566.D PCB4061.M Thu Oct 14 14:55:54 2010 GCEF

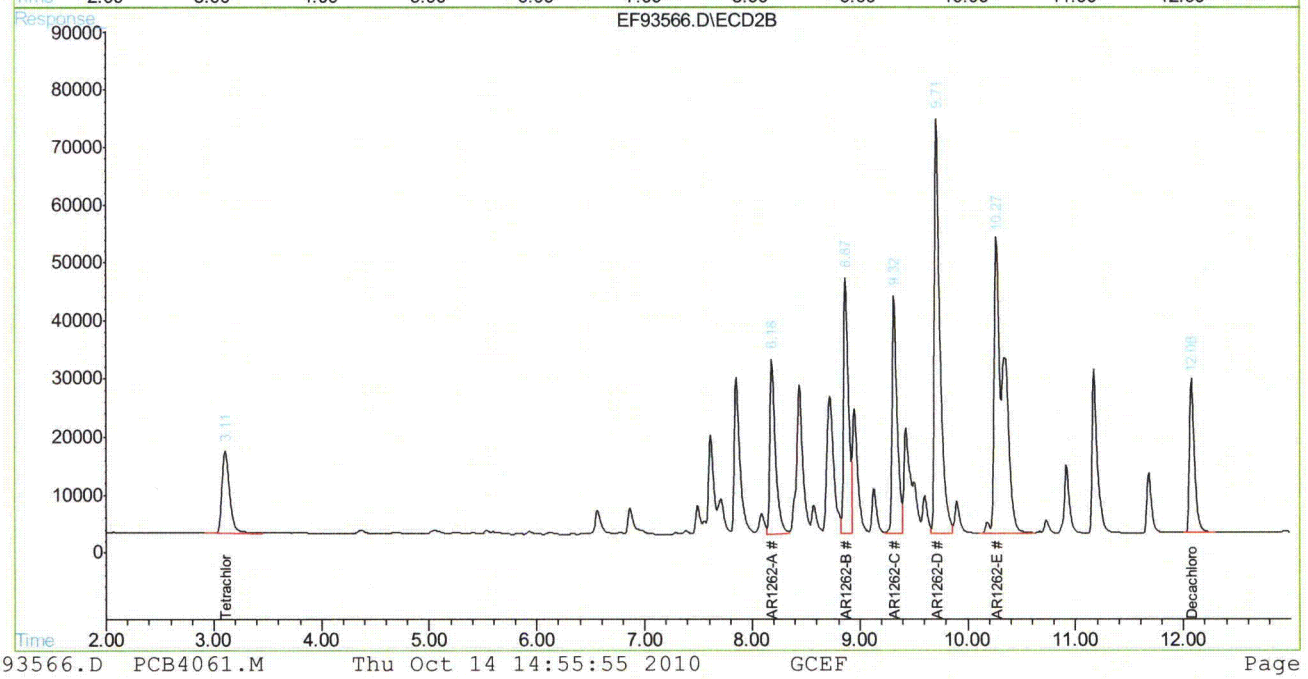
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93566.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93566.D\ECD2B.CH
Acq On : 14 Oct 2010 11:01 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:32 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:32:13 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.60 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93567.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93567.D\ECD2B.CH
Acq On : 14 Oct 2010 11:18 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:34 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:34:05 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.15	3.11	601767	734910	39.929	39.261
	Spiked Amount 40.000			Recovery =		99.82%	98.15%
51)	S Decachlorobiphen	11.60	12.08	1624586	2079956	74.915	78.786
	Spiked Amount 40.000			Recovery =		187.29%	196.97%
	Target Compounds						
36)	AR1268-A	9.95	10.27	2015294	2484725	1000.000	1000.000
37)	AR1268-B	10.01	10.34	2733249	3677079	1000.000	1009.326
38)	AR1268-C	10.32	10.73	1718020	2266742	1000.000	1000.000
39)	AR1268-D	10.87	11.18	717253	885850	1000.000	1000.000
40)	AR1268-E	11.31	11.68	4627993	6107640	1000.000	1000.000

10.6.61 10

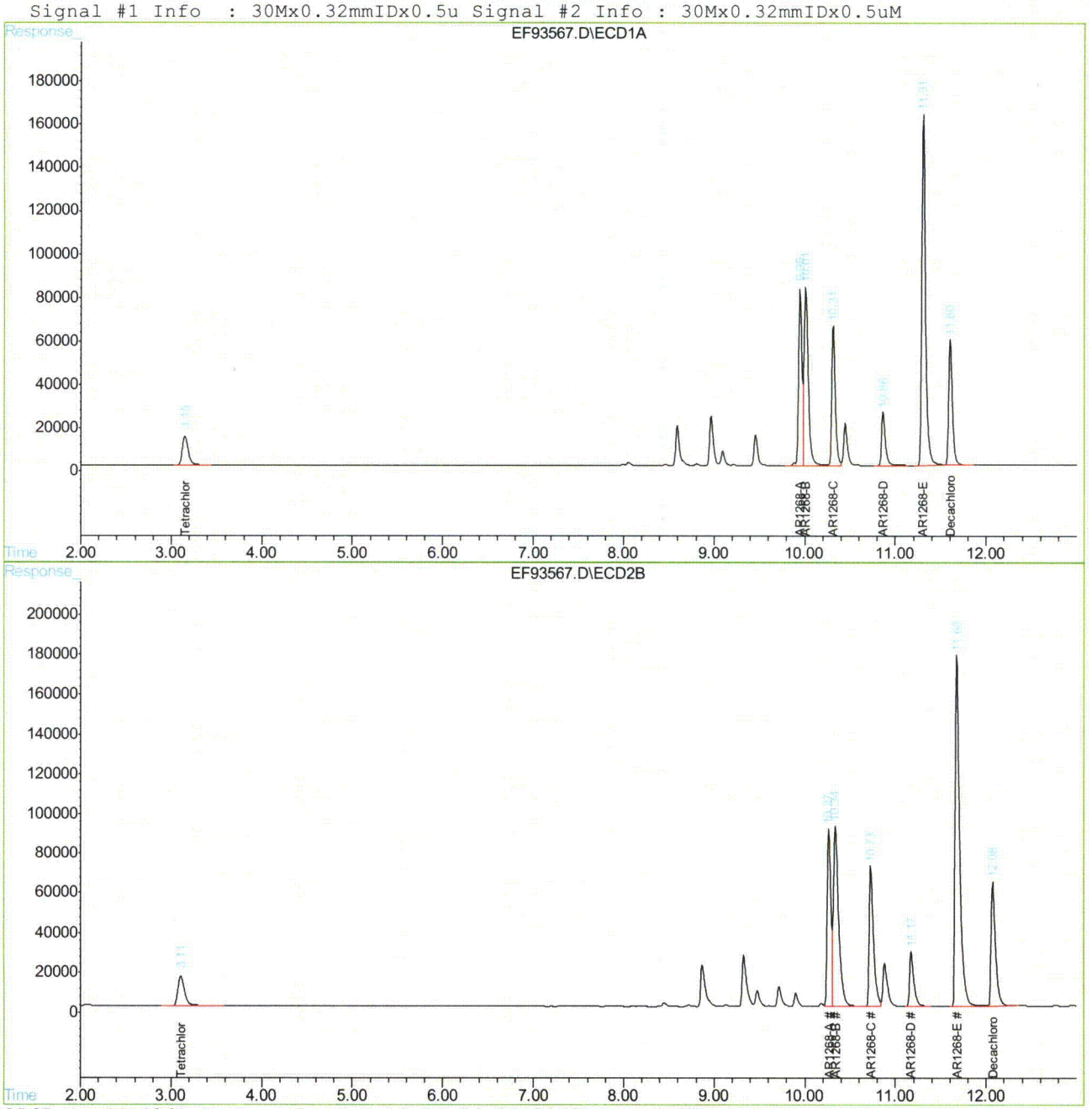
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93567.D PCB4061.M Thu Oct 14 14:56:04 2010 GCEF

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93567.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93567.D\ECD2B.CH
Acq On : 14 Oct 2010 11:18 am Operator: vinced
Sample : ic4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:34 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:34:05 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



10.6.61 10

EF93568.D

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao
10/15/10 10:16

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:09 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.15	3.10	26735	32538	1.688m	1.636m
	Spiked Amount 40.000			Recovery	=	4.22%	4.09%
51) S	Decachlorobiphen	11.61	12.08	37399	44060	2.215	2.083m
	Spiked Amount 40.000			Recovery	=	5.54%	5.21%
	Target Compounds						
41)	AR1016-A	3.67	3.79	22353	24045	54.446m	48.800
42)	AR1016-B	4.19	4.37	42402	49522	60.936	54.766
43)	AR1016-C	4.89	5.05	69164	73787	49.738	45.522
44)	AR1016-D	5.38	5.60	61938	43419	61.983	47.157
45)	AR1016-E	5.70	5.93	29748	35617	51.780	46.476
46)	AR1260-A	7.99	8.19	87507	68994	57.751	51.849
47)	AR1260-B	8.43	8.73	63728	77419	49.322	46.343
48)	AR1260-C	8.98	9.32	37875	51256	51.385	48.888
49)	AR1260-D	9.46	9.72	86352	96816	48.862	44.187
50)	AR1260-E	9.93	10.28	82495	99695	46.133	44.901

10.6.62 10

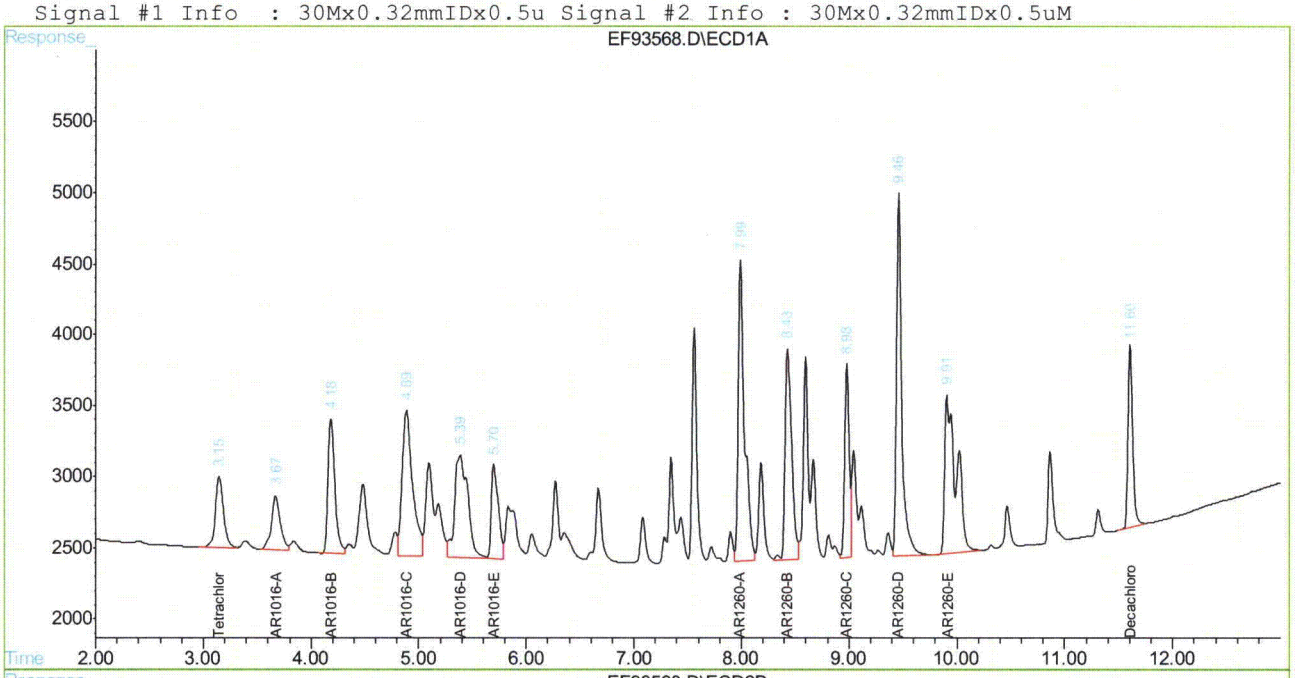
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93568.D PCB4061.M Thu Oct 14 14:56:15 2010 GCEF

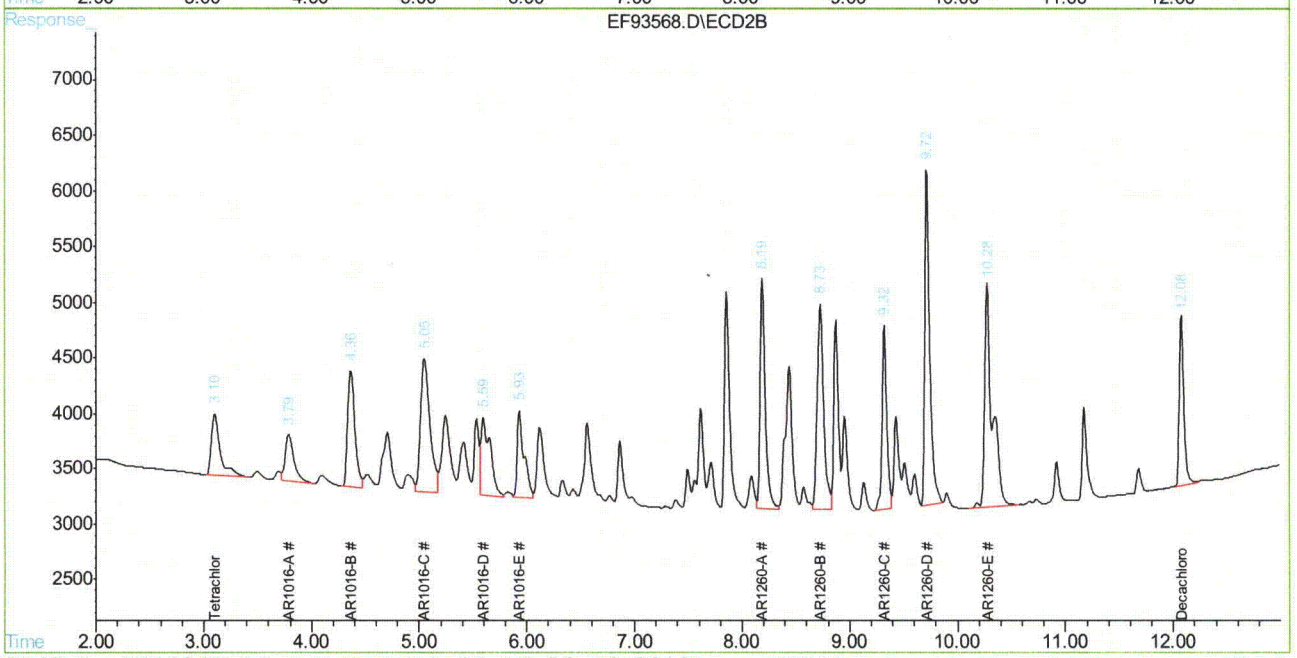
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:09 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.62 10

Manual Integration Approval Summary

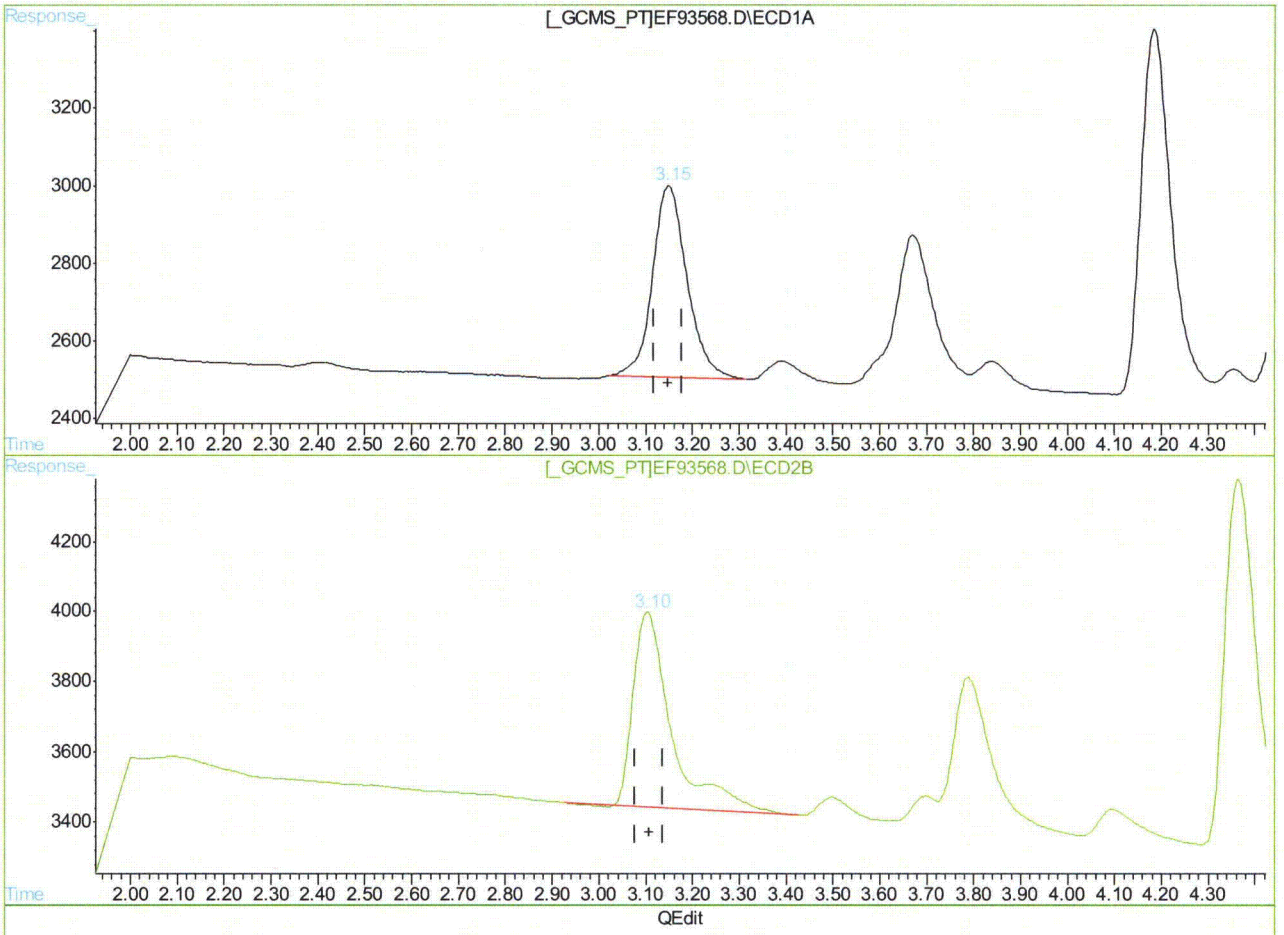
Sample Number: GEF4061-IC4061
Lab FileID: EF93568.D
Injection Time: 10/14/10 11:35
Method: SW846 8082
Analyst approved: 10/14/10 17:37 Vincent Drago
Supervisor approved: 10/15/10 10:16 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	3.10	Poor instrument integration
Tetrachloro-m-xylene	877-09-8	1	3.15	Poor instrument integration
AR1016-A		1	3.67	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	12.08	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:07 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.15min 1.596PPB

response 25281

(1) Tetrachloro-m-xylene #2 (S)

3.11min 1.605PPB

response 31914

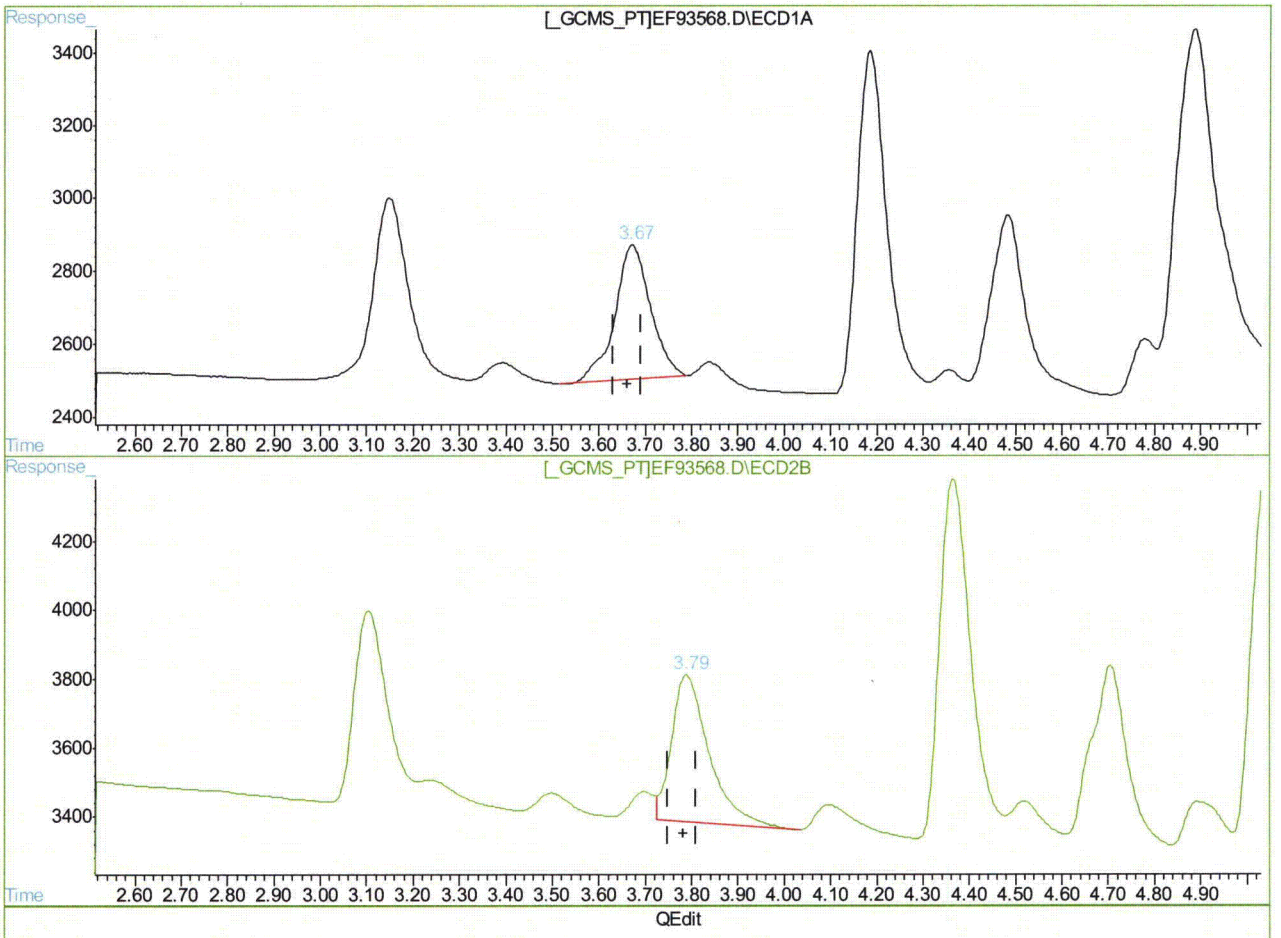
(+) = Expected Retention Time
EF93568.D PCB4061.M Thu Oct 14 14:08:01 2010 GCEF

10.6.62.2 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:07 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Multiple Level Calibration



(41) AR1016-A

3.67min 47.421PPB

response 19469

(41) AR1016-A #2

3.79min 48.800PPB

response 24045

(+) = Expected Retention Time
EF93568.D PCB4061.M Thu Oct 14 14:08:20 2010 GCEF

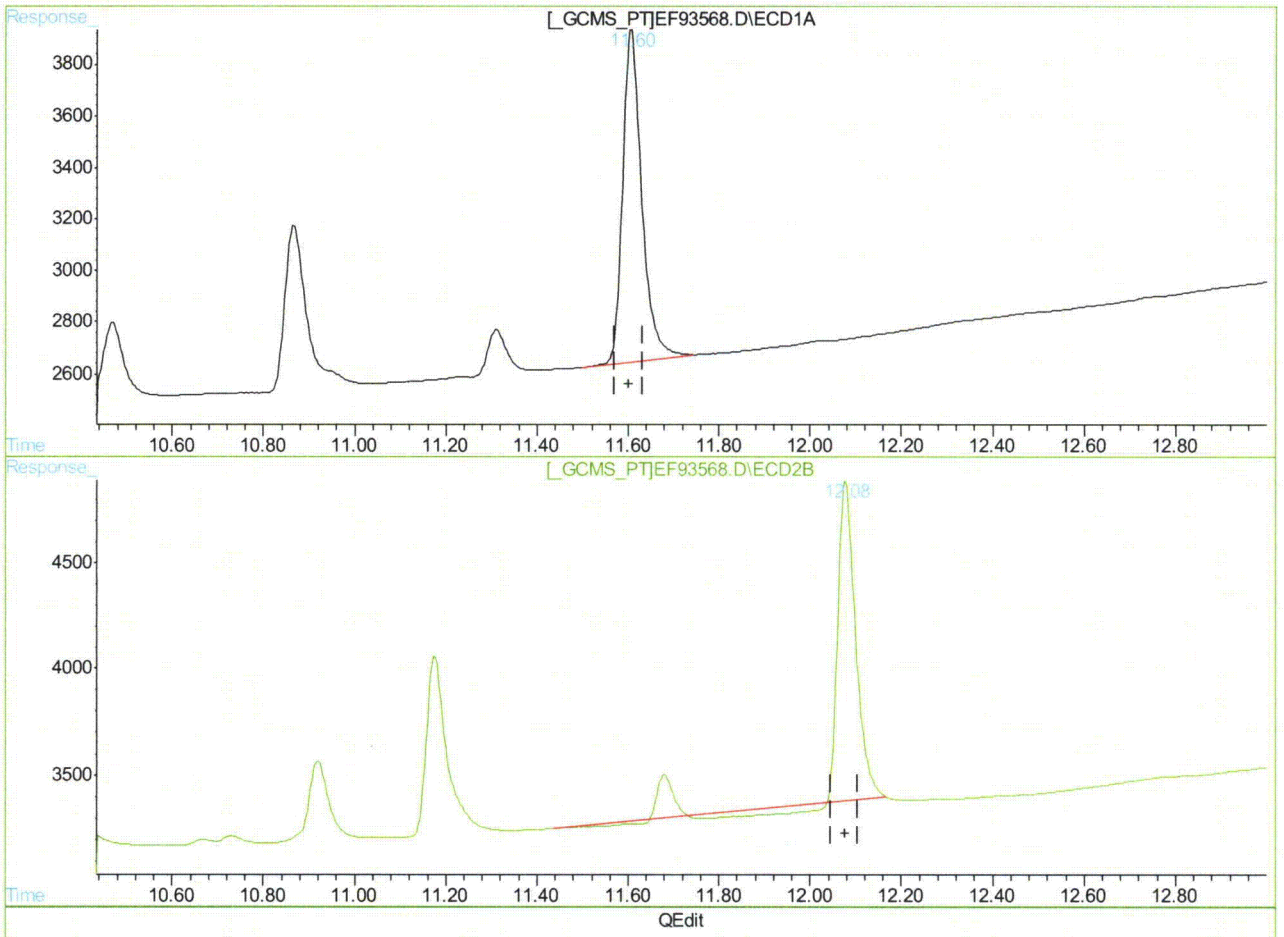
10.6.62.3 10

EF93568.D edits: AR1016-A

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:07 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

11.61min 2.215PPB

response 37399

(51) Decachlorobiphenyl #2 (S)

12.08min 1.812PPB

response 38322

(+) = Expected Retention Time

EF93568.D PCB4061.M Thu Oct 14 14:08:28 2010 GCEF

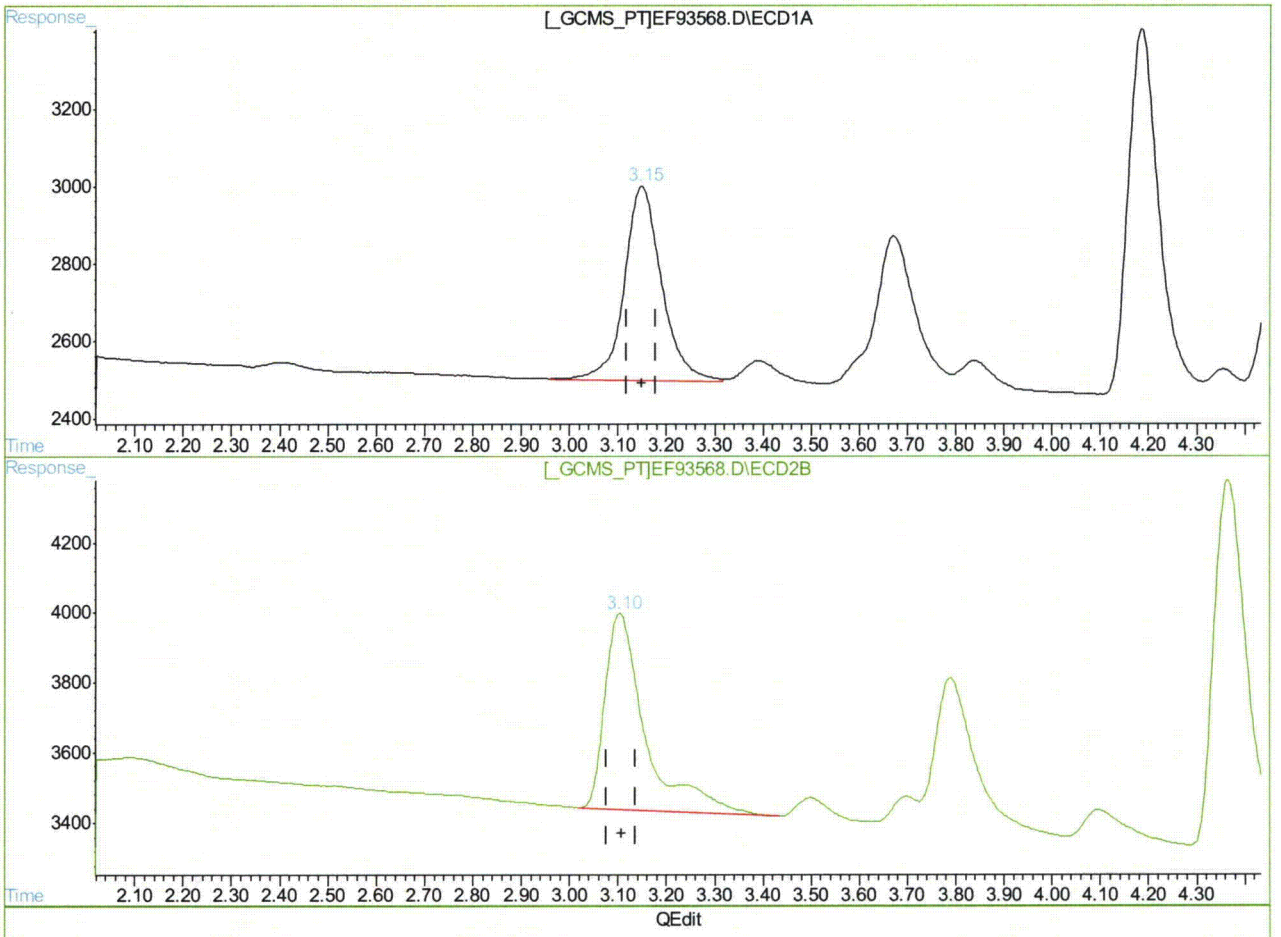
10.6.62.4 10

EF93568.D edits: Decachlorobiphenyl

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:08 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.15min 1.688PPB m

response 26735

(1) Tetrachloro-m-xylene #2 (S)

3.10min 1.636PPB m

response 32538

(+) = Expected Retention Time
EF93568.D PCB4061.M Thu Oct 14 14:08:56 2010 GCEF

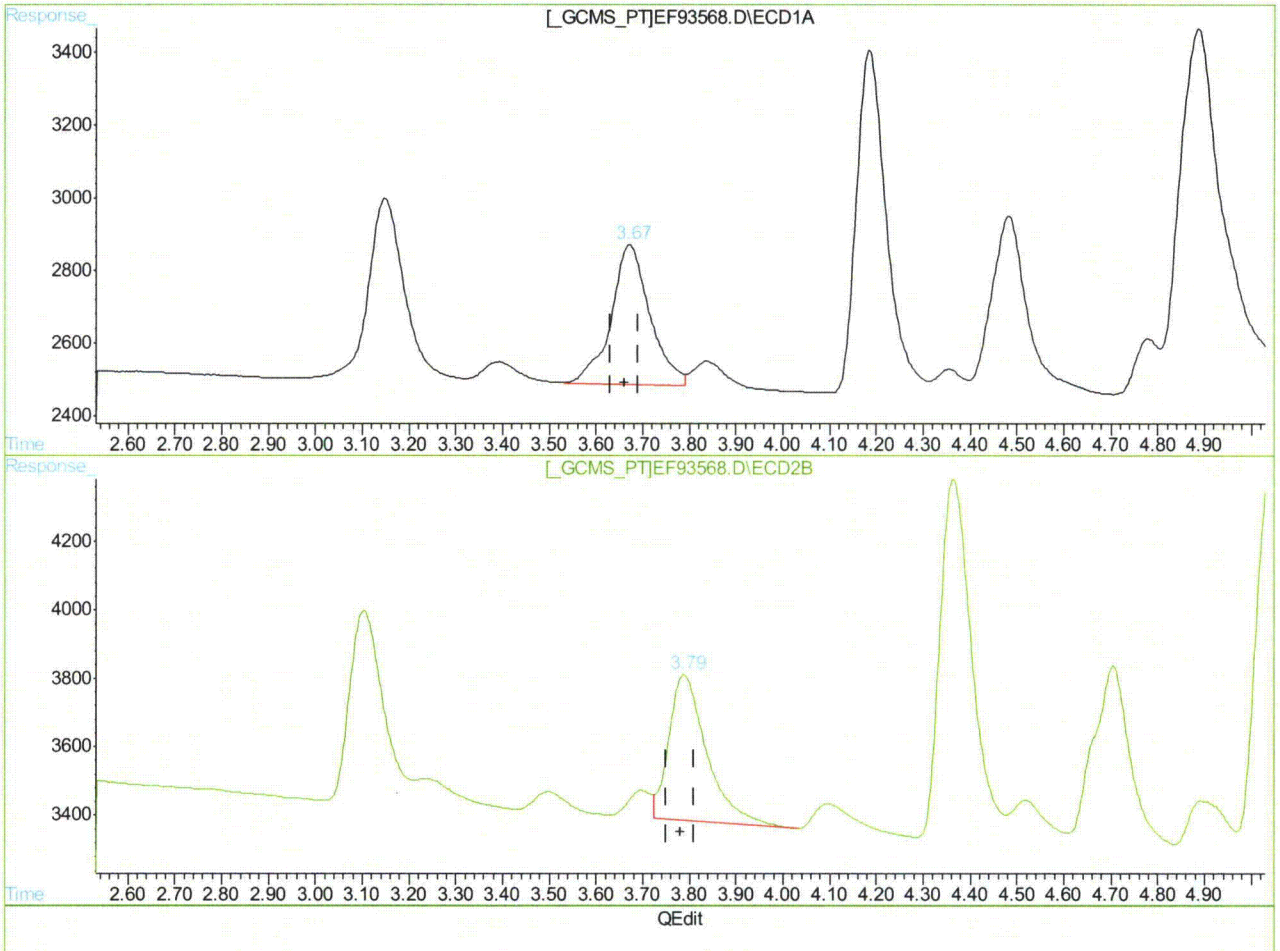
10.6.62.5 10

EF93568.D edits: Tetrachloro-m-xylene

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:08 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Multiple Level Calibration



(41) AR1016-A

3.67min 54.446PPB m

response 22353

(41) AR1016-A #2

3.79min 48.800PPB

response 24045

(+) = Expected Retention Time
EF93568.D PCB4061.M Thu Oct 14 14:09:01 2010 GCEF

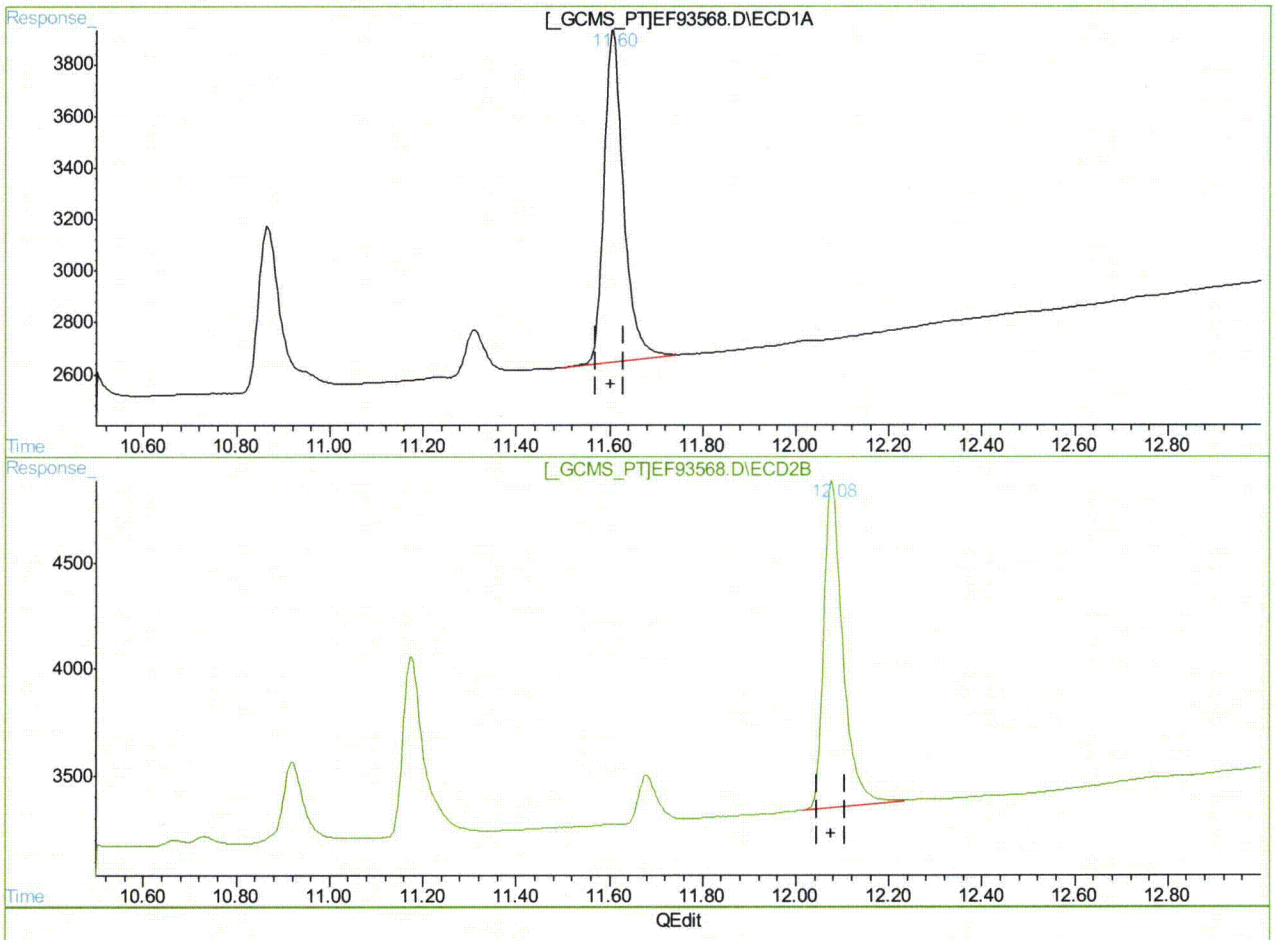
10.6.62.6 10

EF93568.D edits: AR1016-A

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93568.D\ECD2B.CH
Acq On : 14 Oct 2010 11:35 am Operator: vinced
Sample : ic4061-50 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:08 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:06:09 2010
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

11.61min 2.215PPB

response 37399

(51) Decachlorobiphenyl #2 (S)

12.08min 2.083PPB m

response 44060

(+) = Expected Retention Time
EF93568.D PCB4061.M Thu Oct 14 14:09:05 2010 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao 10/15/10 10:16

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD2B.CH
Acq On : 14 Oct 2010 11:52 am Operator: vinced
Sample : ic4061-250 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:02 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 13:59:45 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.15	3.10	137490	167477	8.739	8.613m
	Spiked Amount 40.000			Recovery =		21.85%	21.53%
51) S	Decachlorobiphen	11.61	12.08	181047	213266	10.489	9.846
	Spiked Amount 40.000			Recovery =		26.22%	24.62%
	Target Compounds						
41)	AR1016-A	3.67	3.79	110131	127282	261.738	250.444
42)	AR1016-B	4.19	4.37	195096	240355	270.900	256.576
43)	AR1016-C	4.89	5.05	349902	381492	241.580	226.062
44)	AR1016-D	5.38	5.60	283228	236201	272.525	246.095
45)	AR1016-E	5.70	5.93	149304	187209	249.907	236.930
46)	AR1260-A	8.00	8.19	421391	348191	266.787	249.760
47)	AR1260-B	8.43	8.73	328485	408283	242.409	233.481
48)	AR1260-C	8.98	9.33	192259	263274	250.027	241.806
49)	AR1260-D	9.46	9.72	453351	543863	245.304	238.406
50)	AR1260-E	9.92	10.28	435383	531448	232.349	229.357

10.6.63 10

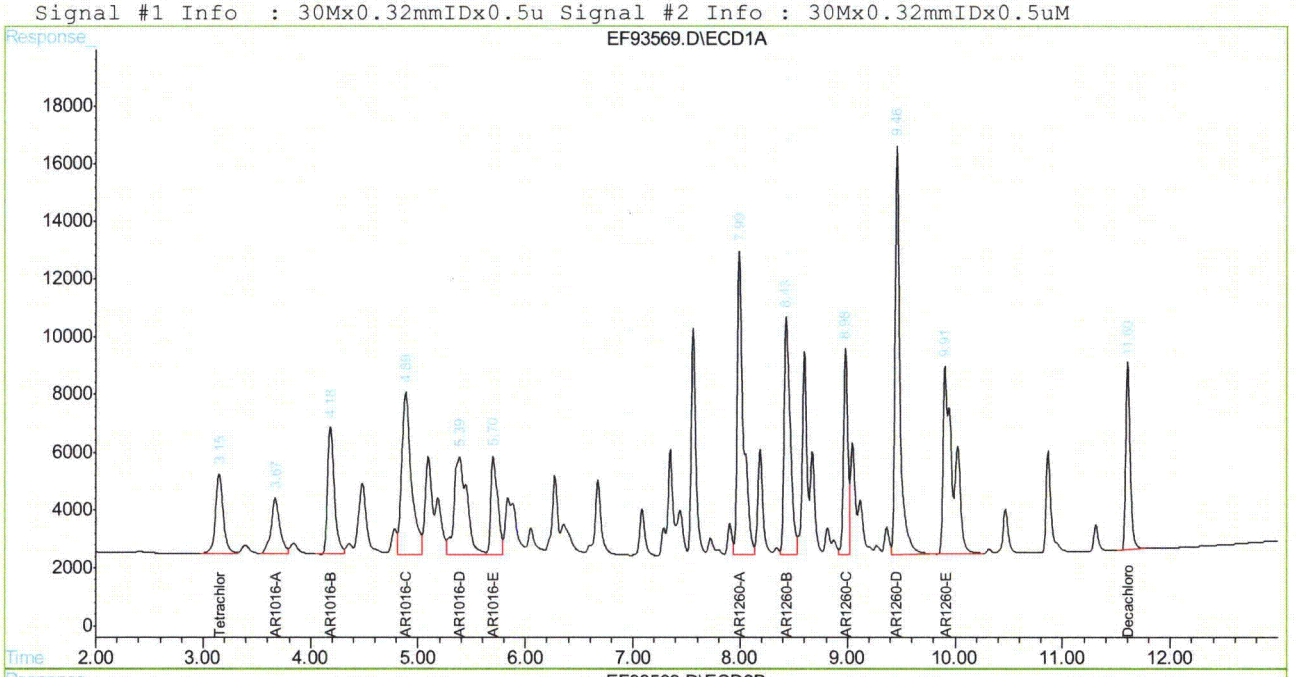
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93569.D PCB4061.M Thu Oct 14 14:56:25 2010 GCEF

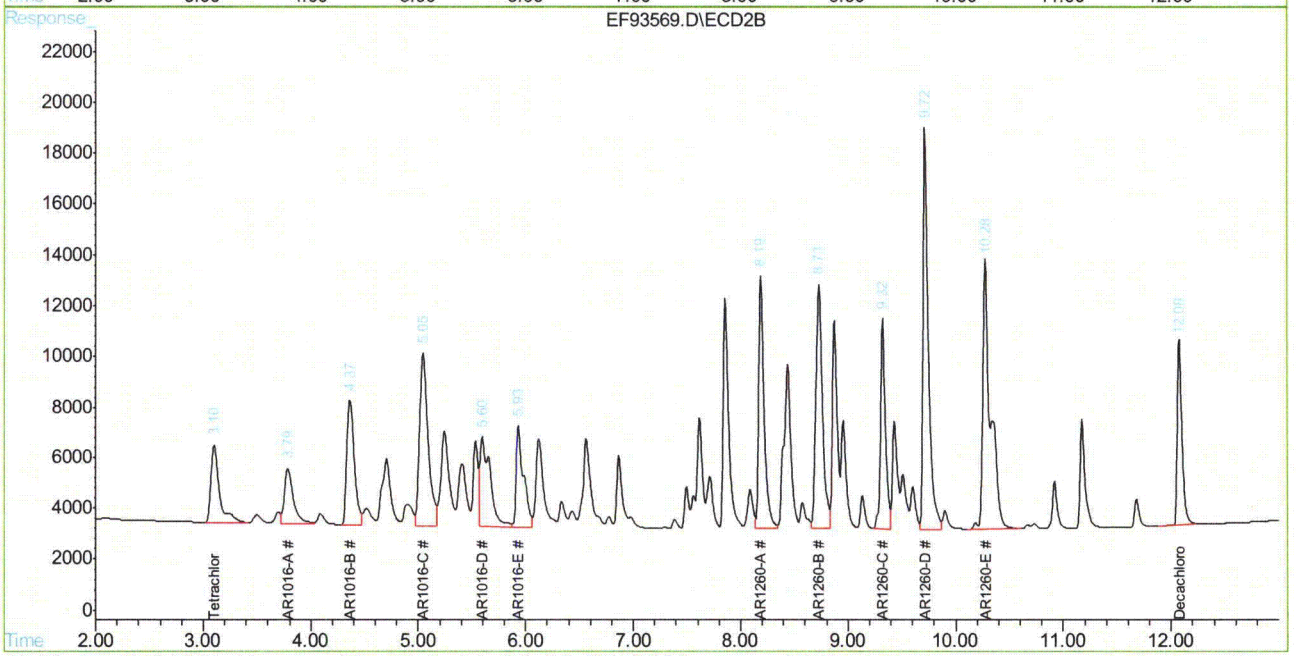
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD2B.CH
Acq On : 14 Oct 2010 11:52 am Operator: vinced
Sample : ic4061-250 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:02 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 13:59:45 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.63 10

Manual Integration Approval Summary

Sample Number: GEF4061-IC4061
Lab FileID: EF93569.D
Injection Time: 10/14/10 11:52

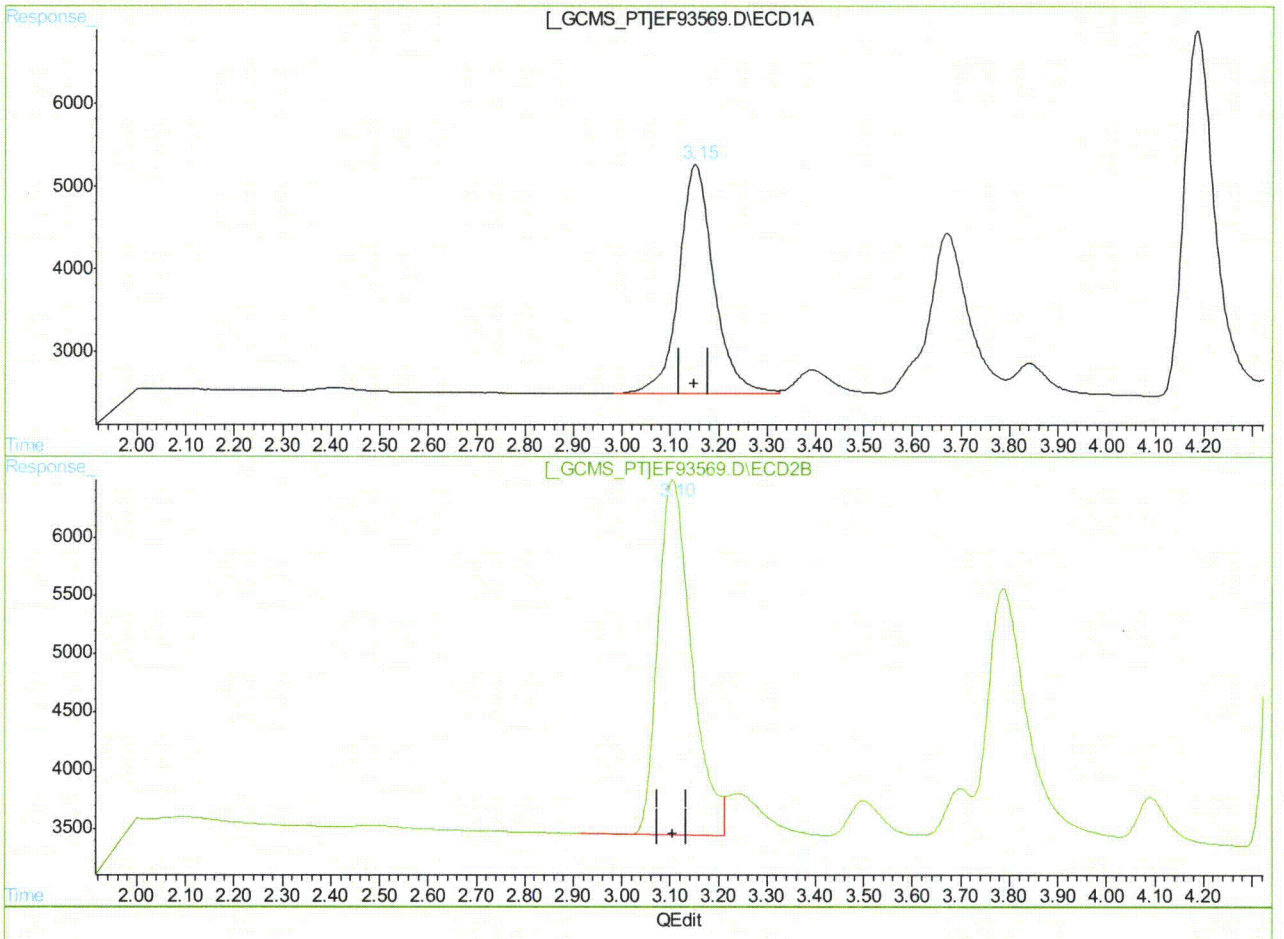
Method: SW846 8082
Analyst approved: 10/14/10 17:37 Vincent Drago
Supervisor approved: 10/15/10 10:16 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	3.10	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD2B.CH
Acq On : 14 Oct 2010 11:52 am Operator: vinced
Sample : ic4061-250 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:01 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 13:59:45 2010
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.15min 8.739PPB

response 137490

(1) Tetrachloro-m-xylene #2 (S)

3.11min 7.559PPB

response 146970

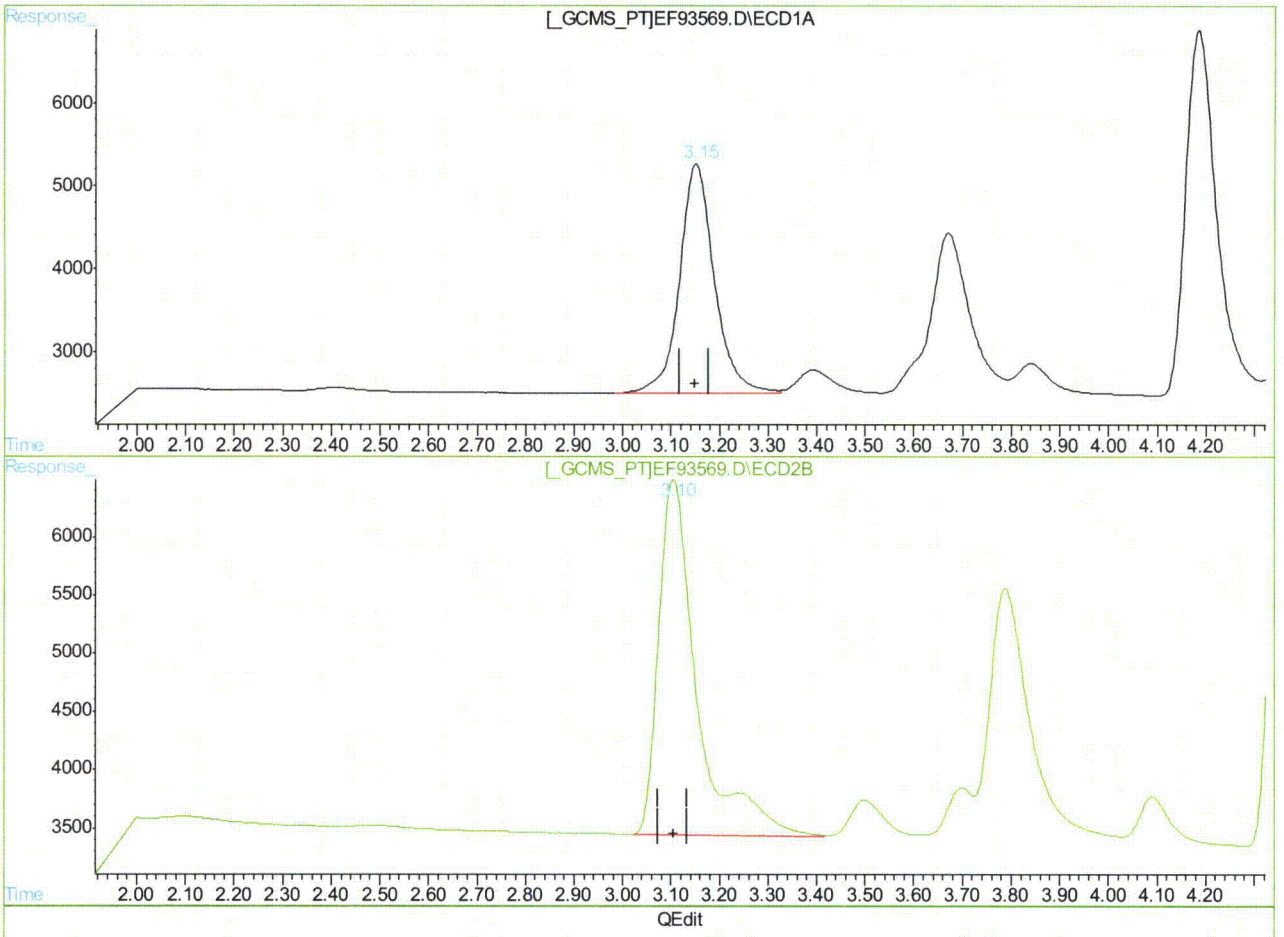
(+) = Expected Retention Time
EF93569.D PCB4061.M Thu Oct 14 14:02:05 2010 GCEF

10.6.63.2 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93569.D\ECD2B.CH
Acq On : 14 Oct 2010 11:52 am Operator: vinced
Sample : ic4061-250 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:01 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 13:59:45 2010
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.15min 8.739PPB

response 137490

(1) Tetrachloro-m-xylene #2 (S)

3.10min 8.613PPB m

response 167477

(+) = Expected Retention Time
EF93569.D PCB4061.M Thu Oct 14 14:02:16 2010 GCEF

10.6.63.3 10

Cal Report: EF93570.D

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao
10/15/10 10:16

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD2B.CH
Acq On : 14 Oct 2010 12:10 pm Operator: vinced
Sample : ic4061-500 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:03 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:02:32 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.15	3.10	287875	351068	19.529	19.401m
	Spiked Amount 40.000			Recovery	=	48.82%	48.50%
51)	S Decachlorobiphen	11.61	12.08	351014	428757	19.851	19.949
	Spiked Amount 40.000			Recovery	=	49.63%	49.87%
	Target Compounds						
41)	AR1016-A	3.67	3.79	218760	253825	507.981	498.992
42)	AR1016-B	4.18	4.36	377544	476703	503.204	502.268
43)	AR1016-C	4.88	5.04	721736	805941	506.837	501.593
44)	AR1016-D	5.38	5.60	548356	478268	504.889	502.225
45)	AR1016-E	5.70	5.93	301335	383587	504.472	498.495
46)	AR1260-A	7.99	8.19	819528	702239	501.998	503.963
47)	AR1260-B	8.43	8.73	690751	858294	517.605	507.595
48)	AR1260-C	8.98	9.32	387873	538875	504.389	503.180
49)	AR1260-D	9.46	9.72	924758	1126609	505.123	505.580
50)	AR1260-E	9.92	10.28	910447	1120089	503.654	504.214

10.6.64 10

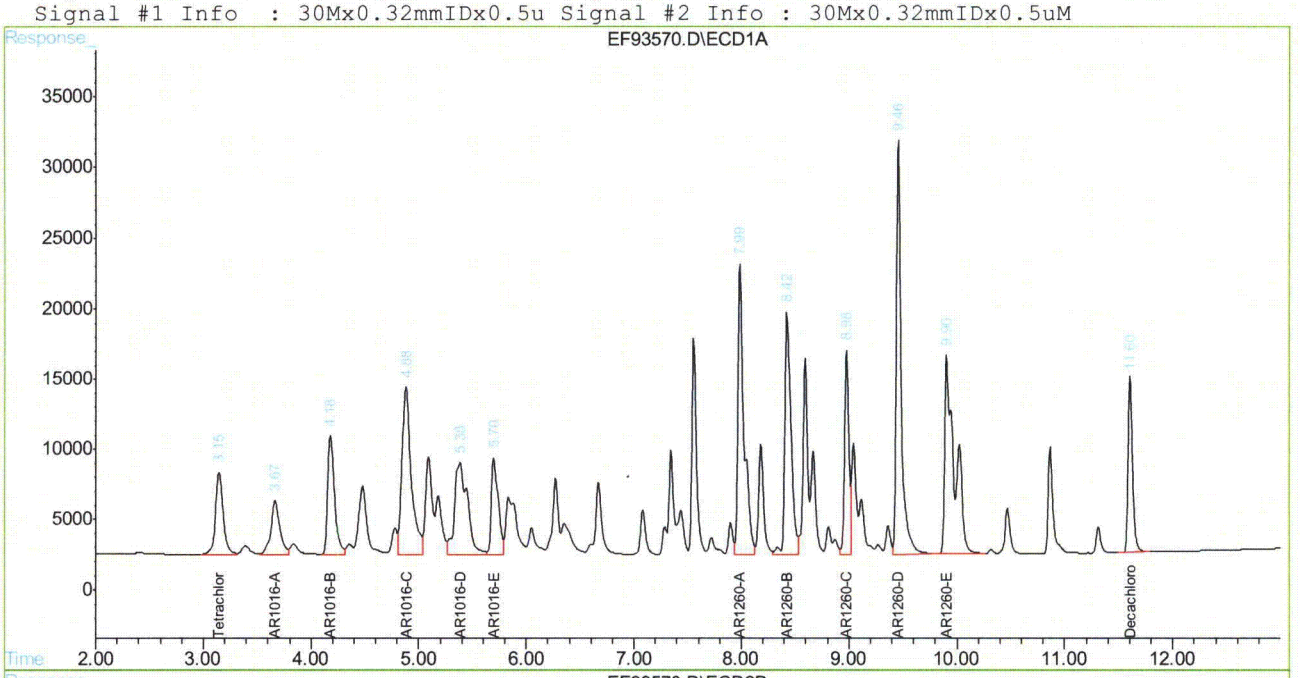
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93570.D PCB4061.M Thu Oct 14 14:56:35 2010 GCEF

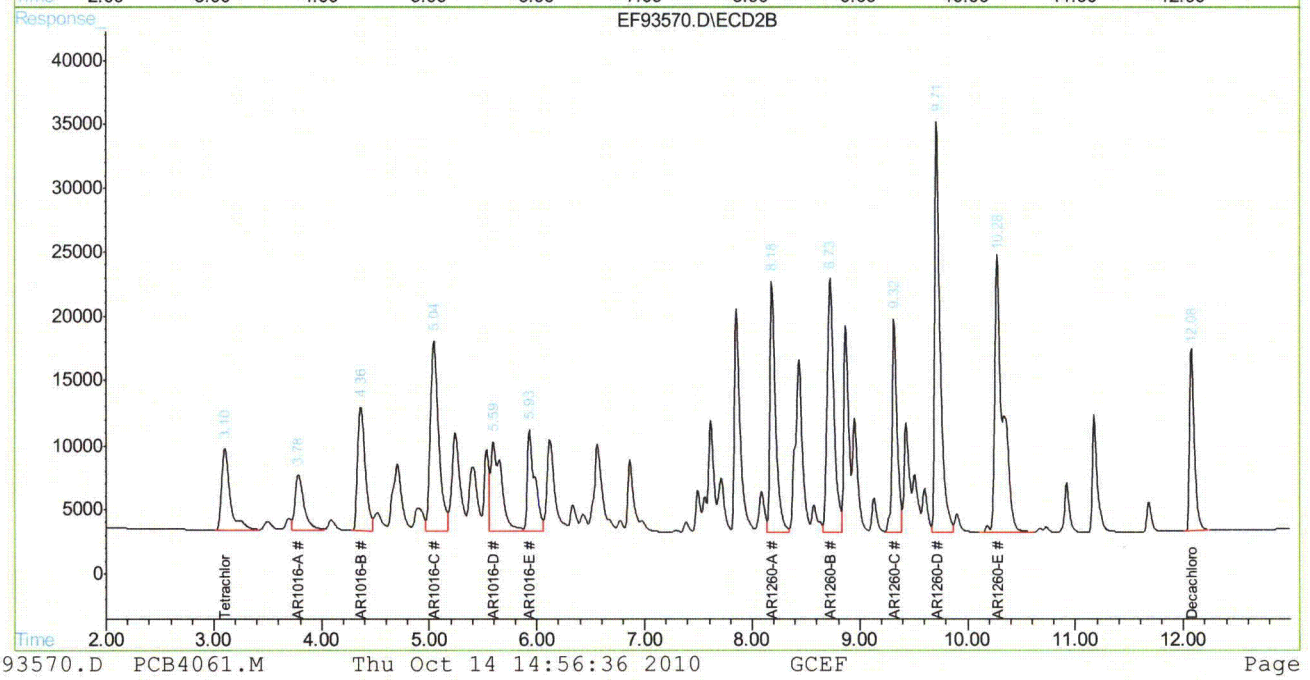
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD2B.CH
Acq On : 14 Oct 2010 12:10 pm Operator: vinced
Sample : ic4061-500 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:03 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:02:32 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.64 10

Manual Integration Approval Summary

Sample Number: GEF4061-IC4061
Lab FileID: EF93570.D
Injection Time: 10/14/10 12:10

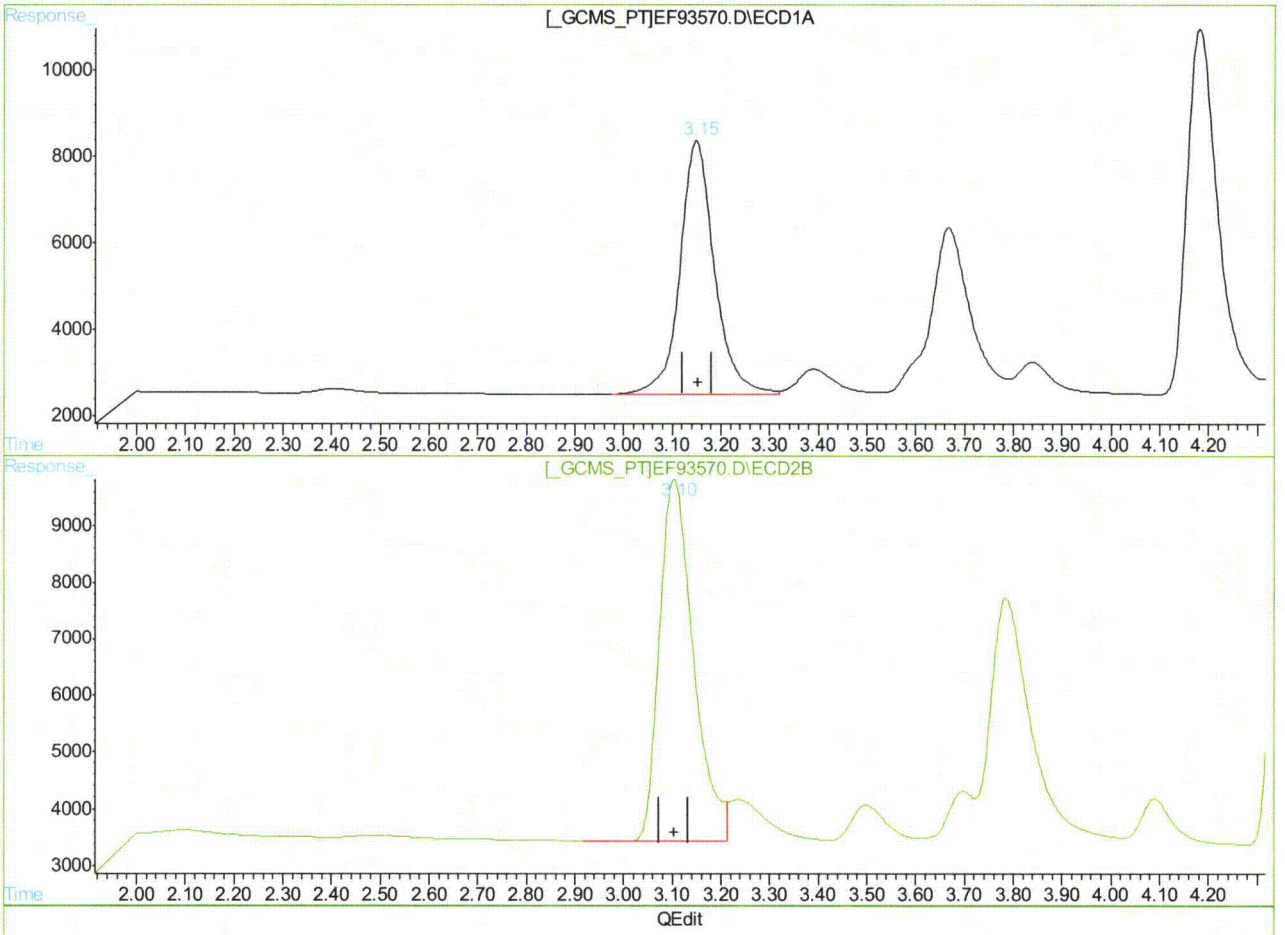
Method: SW846 8082
Analyst approved: 10/14/10 17:37 Vincent Drago
Supervisor approved: 10/15/10 10:16 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	3.10	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD2B.CH
Acq On : 14 Oct 2010 12:10 pm Operator: vinced
Sample : ic4061-500 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:02 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:02:32 2010
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.15min 19.529PPB

response 287875

(1) Tetrachloro-m-xylene #2 (S)

3.11min 17.132PPB

response 310018

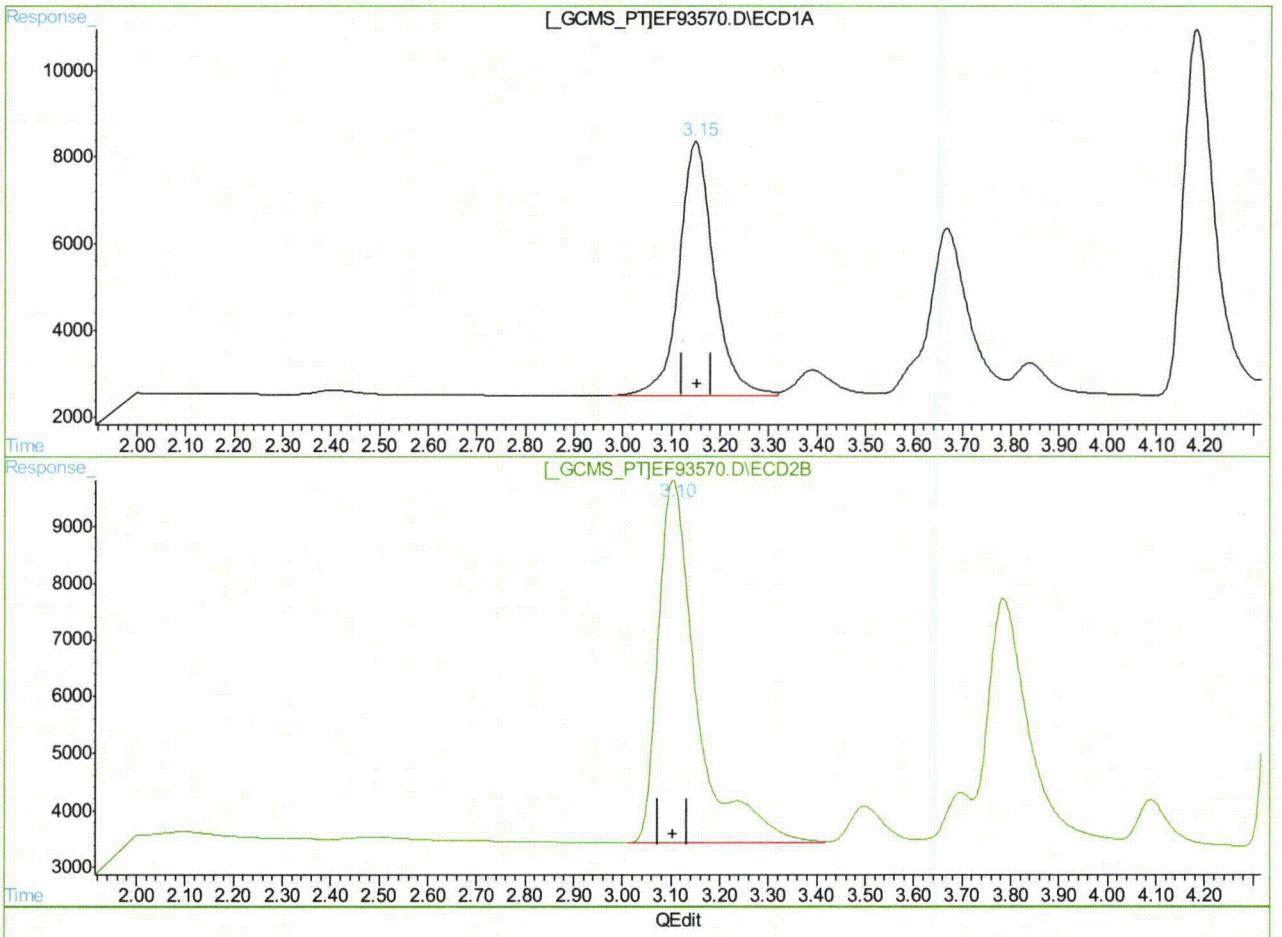
(+) = Expected Retention Time
EF93570.D PCB4061.M Thu Oct 14 14:03:14 2010 GCEF

10.6.64.2 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93570.D\ECD2B.CH
Acq On : 14 Oct 2010 12:10 pm Operator: vinced
Sample : ic4061-500 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:02 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:02:32 2010
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.15min 19.529PPB

response 287875

(1) Tetrachloro-m-xylene #2 (S)

3.10min 19.401PPB m

response 351068

(+) = Expected Retention Time
EF93570.D PCB4061.M Thu Oct 14 14:03:22 2010 GCEF

10.6.64.3 10

EF93570.D edits: Tetrachloro-m-xylene

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93571.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93571.D\ECD2B.CH
Acq On : 14 Oct 2010 12:27 pm Operator: vinced
Sample : icc4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 13:59 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 13:59:11 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.15	3.11	629324	777751	40.000	40.000
	Spiked Amount 40.000			Recovery =		100.00%	100.00%
51) S	Decachlorobiphen	11.60	12.08	690409	866368	40.000	40.000
	Spiked Amount 40.000			Recovery =		100.00%	100.00%
	Target Compounds						
41)	AR1016-A	3.67	3.78	420768	508225	1000.000	1000.000
42)	AR1016-B	4.18	4.36	720177	936781	1000.000	1000.000
43)	AR1016-C	4.88	5.04	1448393	1687555	1000.000	1000.000
44)	AR1016-D	5.38	5.59	1039272	959795	1000.000	1000.000
45)	AR1016-E	5.70	5.93	597439	790143	1000.000	1000.000
46)	AR1260-A	7.99	8.19	1579503	1394102	1000.000	1000.000
47)	AR1260-B	8.43	8.73	1355089	1748676	1000.000	1000.000
48)	AR1260-C	8.98	9.32	768955	1088781	1000.000	1000.000
49)	AR1260-D	9.46	9.72	1848116	2281245	1000.000	1000.000
50)	AR1260-E	9.92	10.28	1873833	2317120	1000.000	1000.000

10.6.65 10

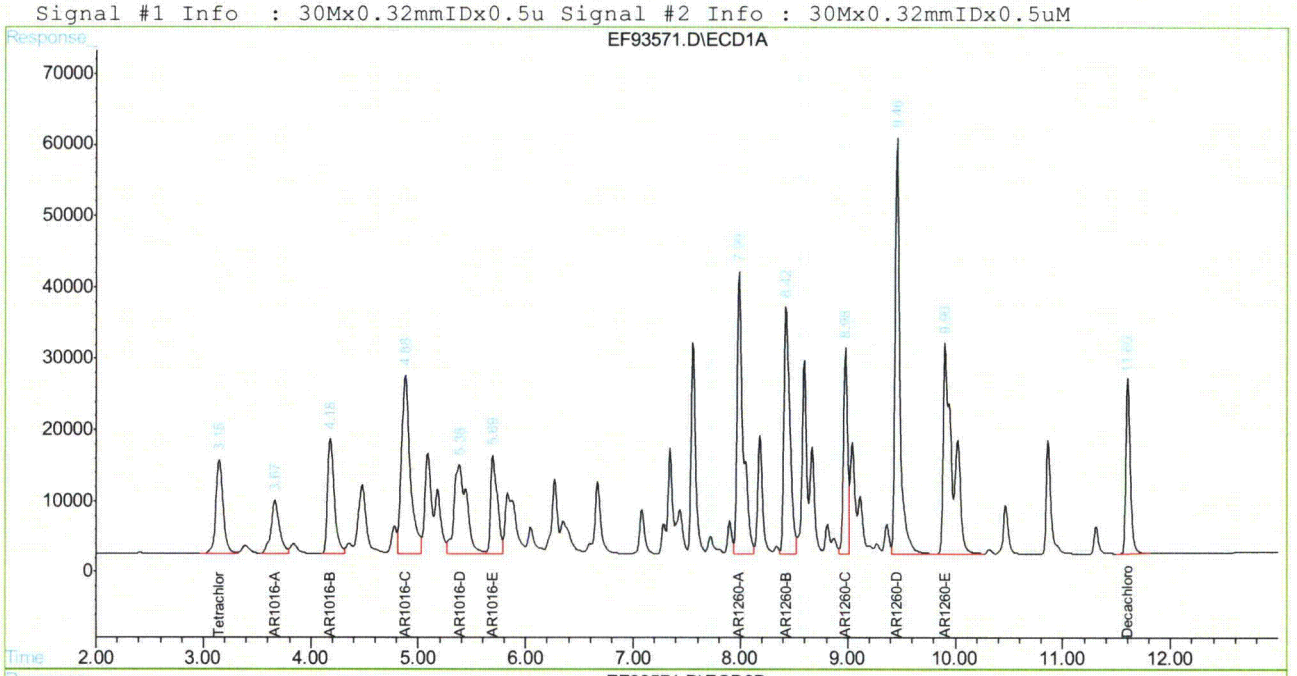
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93571.D PCB4061.M Thu Oct 14 14:56:46 2010 GCEF

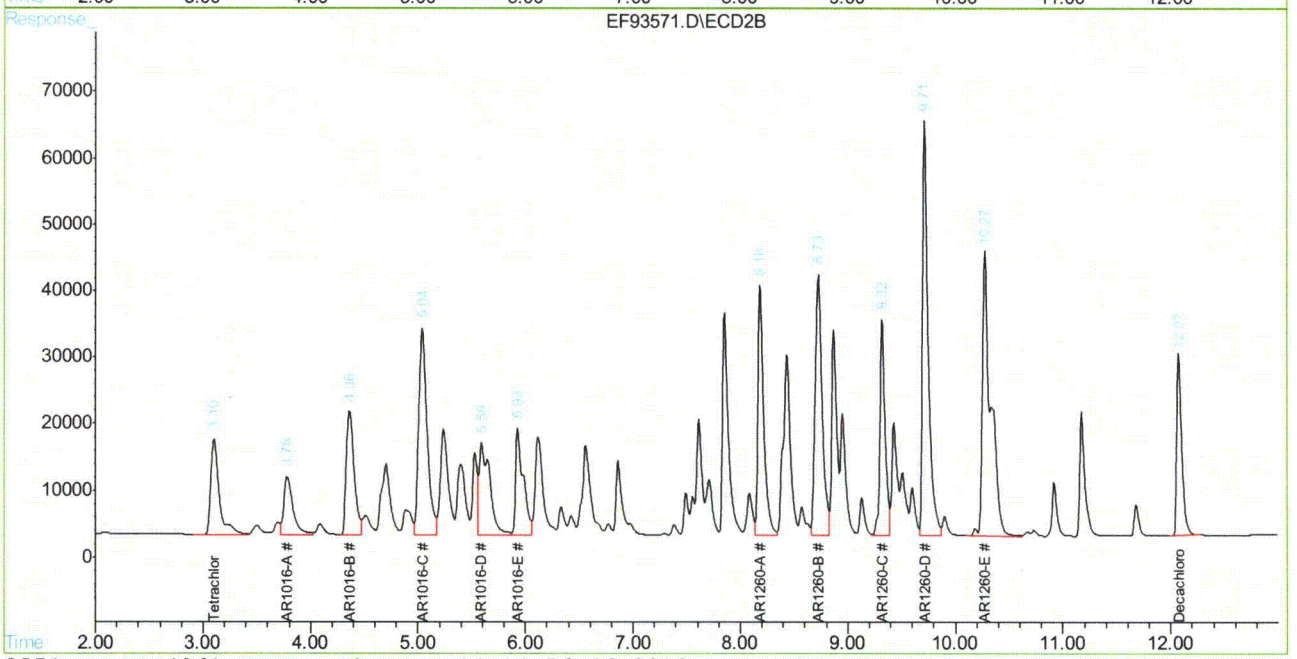
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93571.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93571.D\ECD2B.CH
Acq On : 14 Oct 2010 12:27 pm Operator: vinced
Sample : icc4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 13:59 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 13:59:11 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.65 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93572.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93572.D\ECD2B.CH
Acq On : 14 Oct 2010 12:44 pm Operator: vinced
Sample : ic4061-2000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:04 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:02:32 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.15	3.11	1328715	1684501	90.137	93.088
	Spiked Amount 40.000			Recovery	=	225.34%	232.72%
51)	S Decachlorobiphen	11.60	12.08	1303768	1671645	73.732	77.777
	Spiked Amount 40.000			Recovery	=	184.33%	194.44%
	Target Compounds						
41)	AR1016-A	3.66	3.78	784442	955889	1821.548	1879.169
42)	AR1016-B	4.18	4.36	1298395	1732380	1730.546	1825.284
43)	AR1016-C	4.88	5.04	2722829	3259921	1912.098	2028.878
44)	AR1016-D	5.38	5.59	1852921	1788247	1706.045	1877.822
45)	AR1016-E	5.70	5.93	1106870	1511185	1853.035	1963.881
46)	AR1260-A	7.99	8.18	2843404	2561540	1741.714	1838.293
47)	AR1260-B	8.43	8.73	2520629	3312585	1888.798	1959.063
48)	AR1260-C	8.98	9.32	1423072	2063013	1850.557	1926.359
49)	AR1260-D	9.46	9.71	3437186	4317131	1877.464	1937.368
50)	AR1260-E	9.91	10.28	3551959	4443197	1964.925	2000.127

10.6.66 10

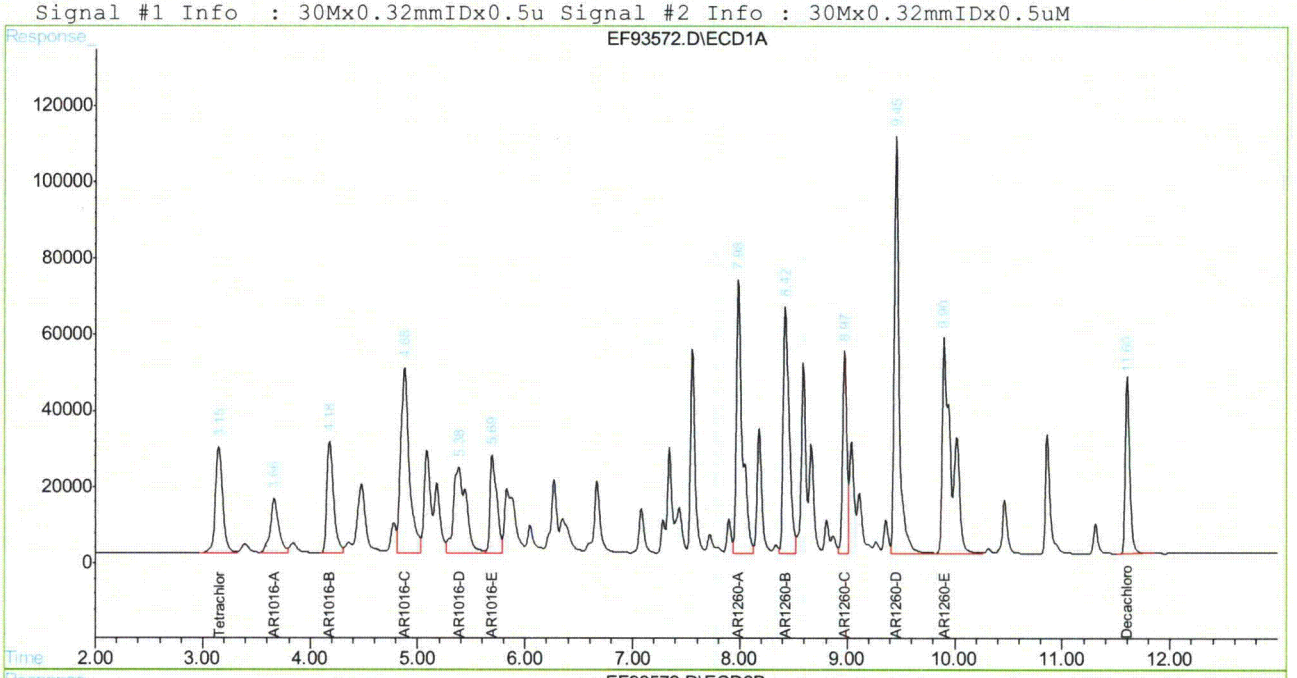
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93572.D PCB4061.M Thu Oct 14 14:56:59 2010 GCEF

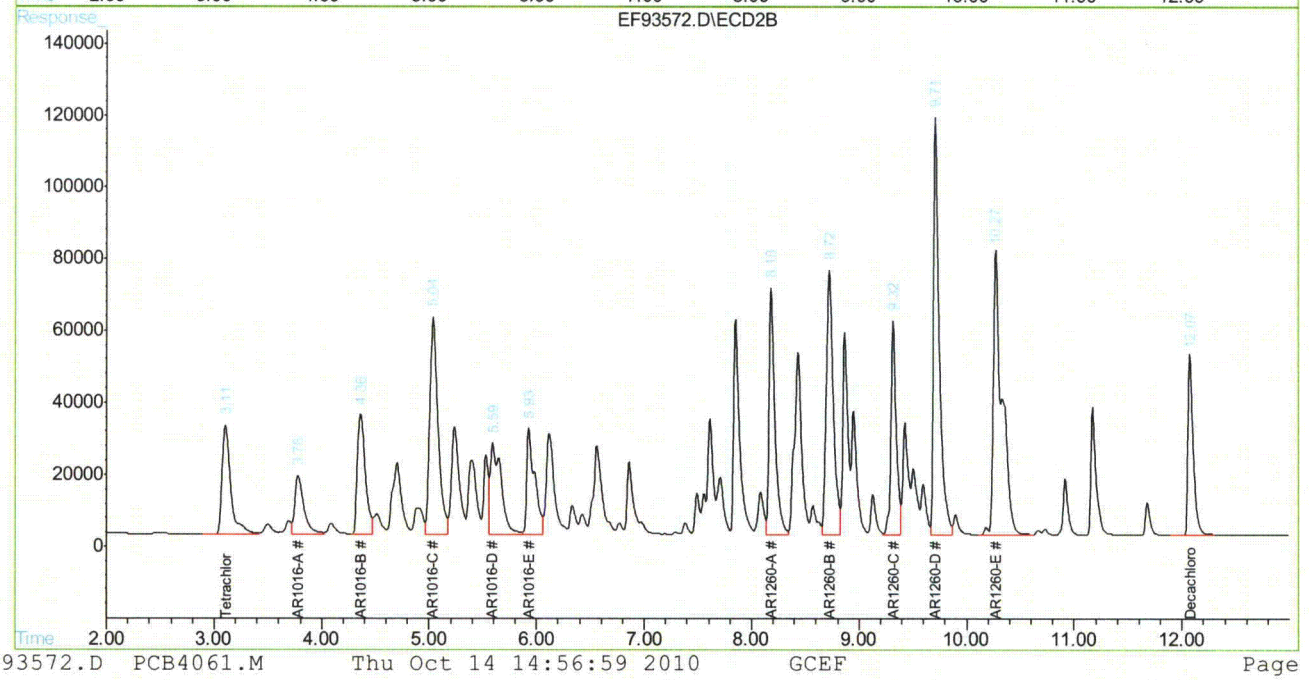
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93572.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93572.D\ECD2B.CH
Acq On : 14 Oct 2010 12:44 pm Operator: vinced
Sample : ic4061-2000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:04 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:02:32 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93573.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93573.D\ECD2B.CH
Acq On : 14 Oct 2010 1:02 pm Operator: vinced
Sample : ic4061-3000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:05 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:04:48 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.15	3.11	2071577	2677409	134.836	140.306
	Spiked Amount 40.000			Recovery	=	337.09%	350.77%
51)	S Decachlorobiphen	11.60	12.08	1903357	2485423	110.528	116.721
	Spiked Amount 40.000			Recovery	=	276.32%	291.80%
	Target Compounds						
41)	AR1016-A	3.66	3.78	1166035	1426841	2790.643	2862.657
42)	AR1016-B	4.18	4.36	1900943	2557722	2652.777	2775.714
43)	AR1016-C	4.88	5.04	4058419	4920254	2892.387	3047.552
44)	AR1016-D	5.38	5.59	2695446	2652738	2609.638	2843.518
45)	AR1016-E	5.70	5.93	1649872	2312444	2831.441	3023.368
46)	AR1260-A	7.99	8.18	4122808	3764991	2639.010	2776.790
47)	AR1260-B	8.42	8.73	3716739	4932445	2837.679	2937.087
48)	AR1260-C	8.98	9.32	2096514	3060924	2795.937	2893.685
49)	AR1260-D	9.45	9.71	5066835	6446621	2825.313	2923.522
50)	AR1260-E	9.91	10.28	5284274	6650591	2940.422	2993.733

10.6.67 10

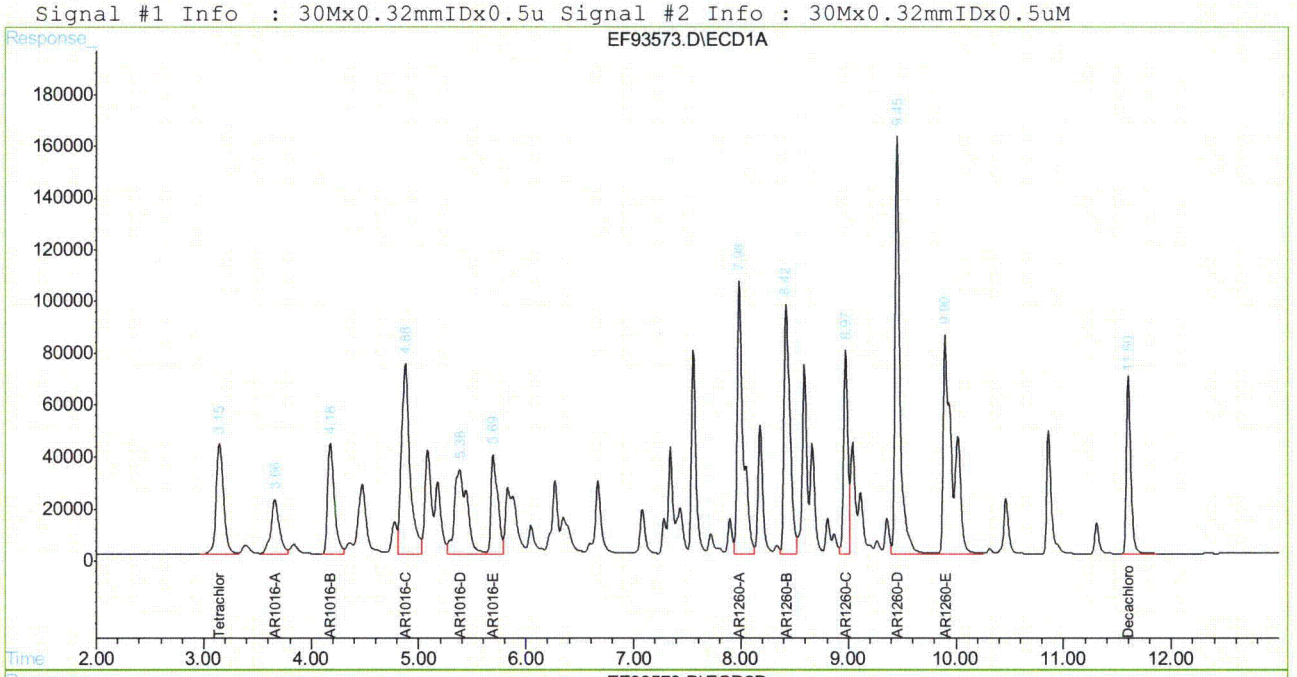
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93573.D PCB4061.M Thu Oct 14 14:57:19 2010 GCEF

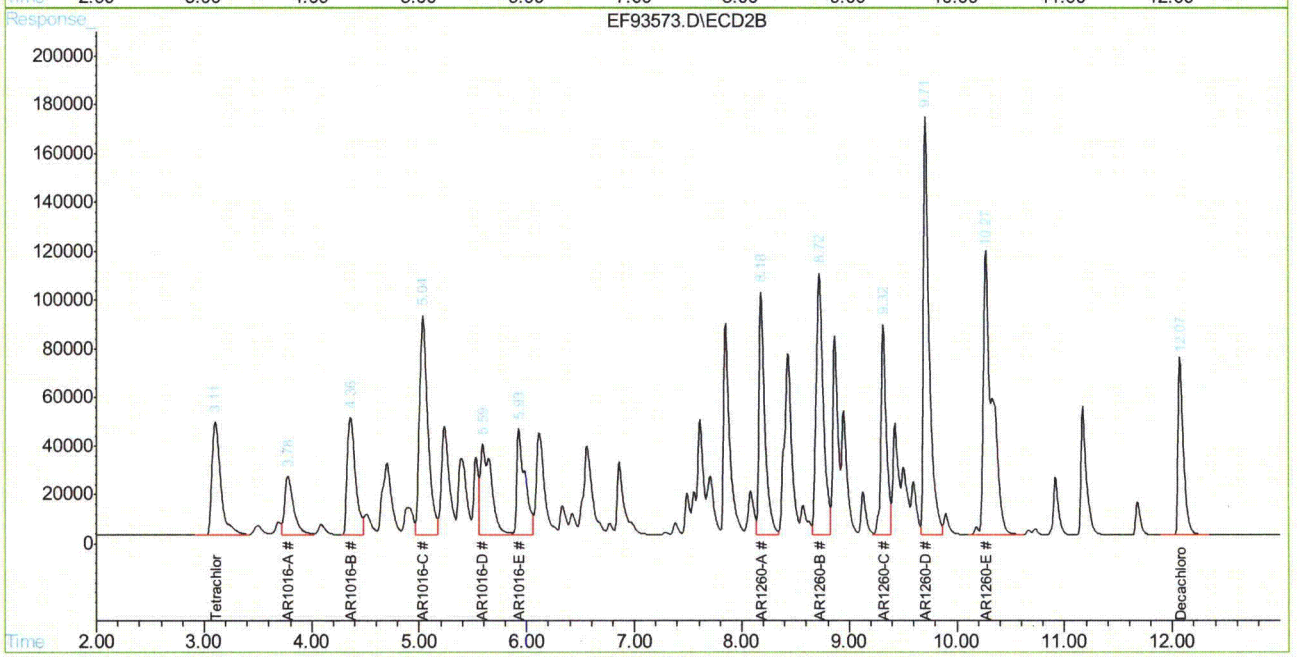
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93573.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93573.D\ECD2B.CH
Acq On : 14 Oct 2010 1:02 pm Operator: vinced
Sample : ic4061-3000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:05 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:04:48 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





EF93573.D PCB4061.M Thu Oct 14 14:57:20 2010 GCEF Page 2

10.6.67 10

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao 10/15/10 10:16

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD2B.CH
Acq On : 14 Oct 2010 1:19 pm Operator: vinced
Sample : icv4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:45 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:35:36 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
	Target Compounds						
41)	AR1016-A	3.67	3.78	425267	513859	1009.827	1041.795
42)	AR1016-B	4.18	4.36	717546	934826	981.474	1008.659
43)	AR1016-C	4.88	5.04	1440458	1663252	1030.252	1042.662
44)	AR1016-D	5.38	5.59	1028041	952937	974.046	1038.079m
45)	AR1016-E	5.71	5.93	590279	780856	1013.158	1030.856
46)	AR1260-A	7.99	8.19	1493916	1335324	948.494m	988.276
47)	AR1260-B	8.43	8.73	1300823	1649248	997.524	994.800
48)	AR1260-C	8.98	9.32	751554	1059643	1006.182	1009.735
49)	AR1260-D	9.46	9.72	1827099	2272339	1029.776	1052.523
50)	AR1260-E	9.92	10.28	1803328	2203984	1018.489	1008.270

10.6.68 10

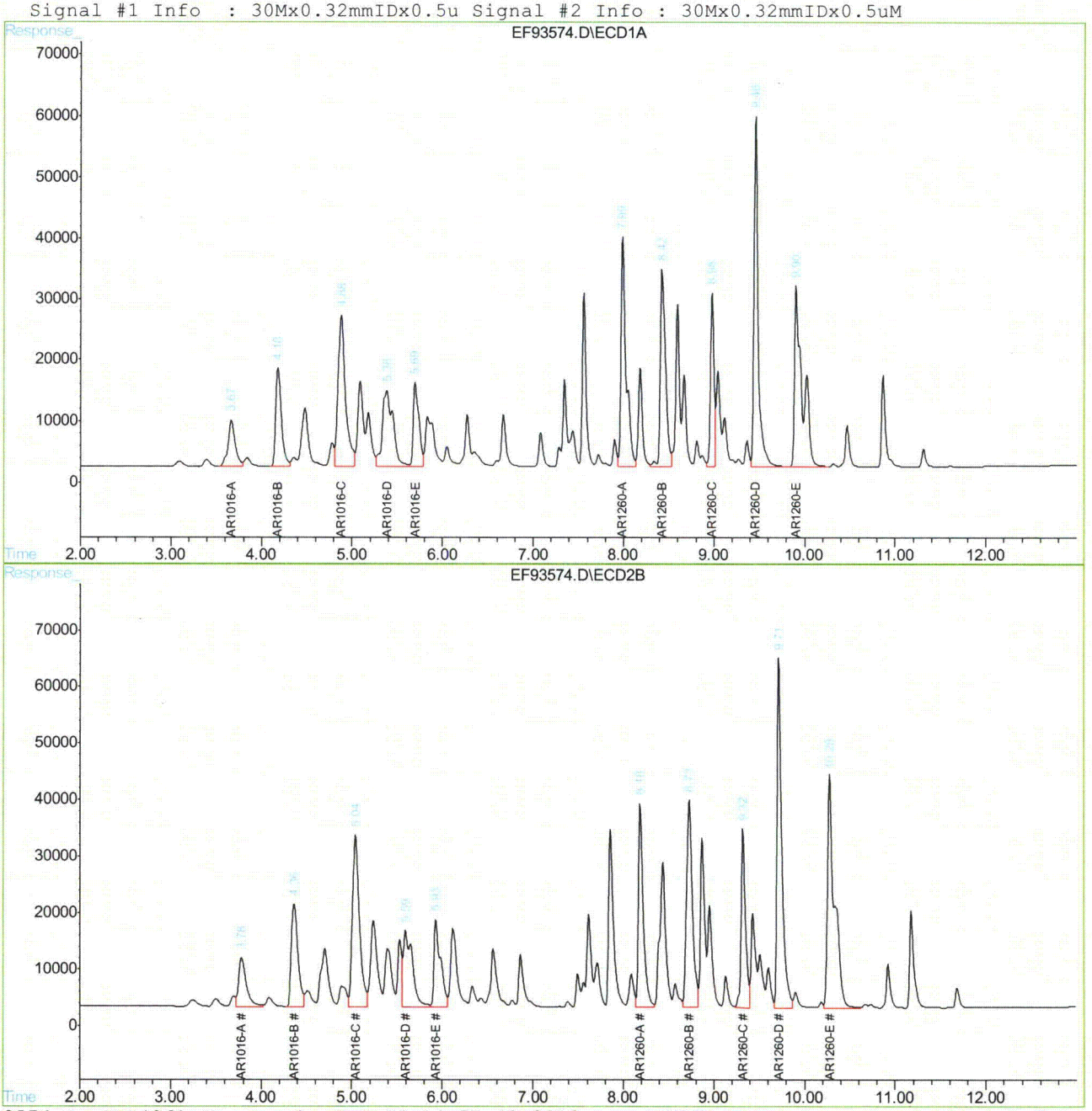
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93574.D PCB4061.M Thu Oct 14 14:57:47 2010 GCEF

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD2B.CH
Acq On : 14 Oct 2010 1:19 pm Operator: vinced
Sample : icv4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:45 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:35:36 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



10.6.68 10

Manual Integration Approval Summary

Sample Number: GEF4061-ICV4061
Lab FileID: EF93574.D
Injection Time: 10/14/10 13:19

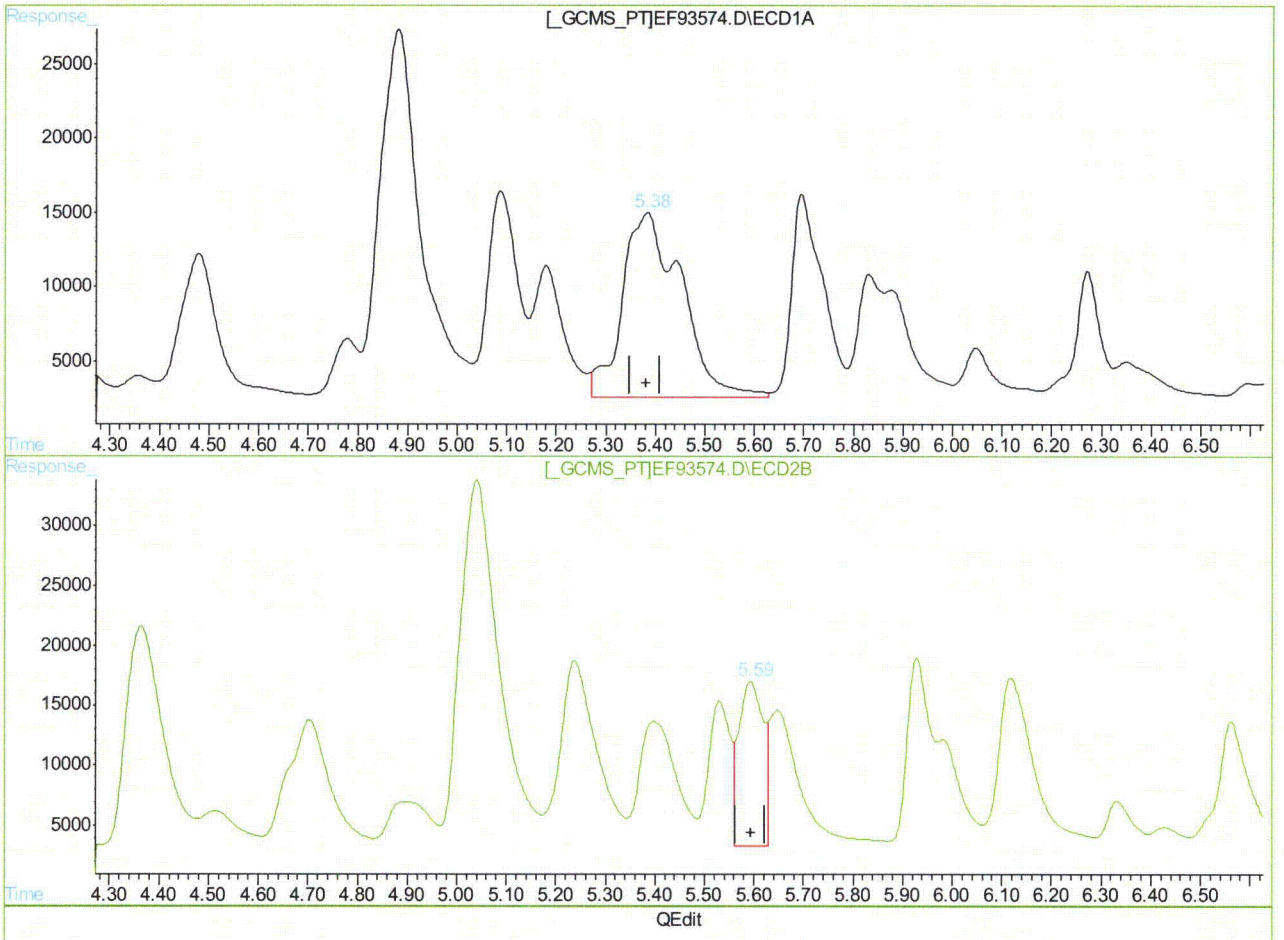
Method: SW846 8082
Analyst approved: 10/14/10 17:37 Vincent Drago
Supervisor approved: 10/15/10 10:16 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-D		2	5.59	Poor instrument integration
AR1260-A		1	7.99	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD2B.CH
Acq On : 14 Oct 2010 1:19 pm Operator: vinced
Sample : icv4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:43 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:35:36 2010
Response via : Multiple Level Calibration



(44) AR1016-D

5.38min 974.046PPB

response 1028041

(44) AR1016-D #2

5.59min 495.858PPB

response 455188

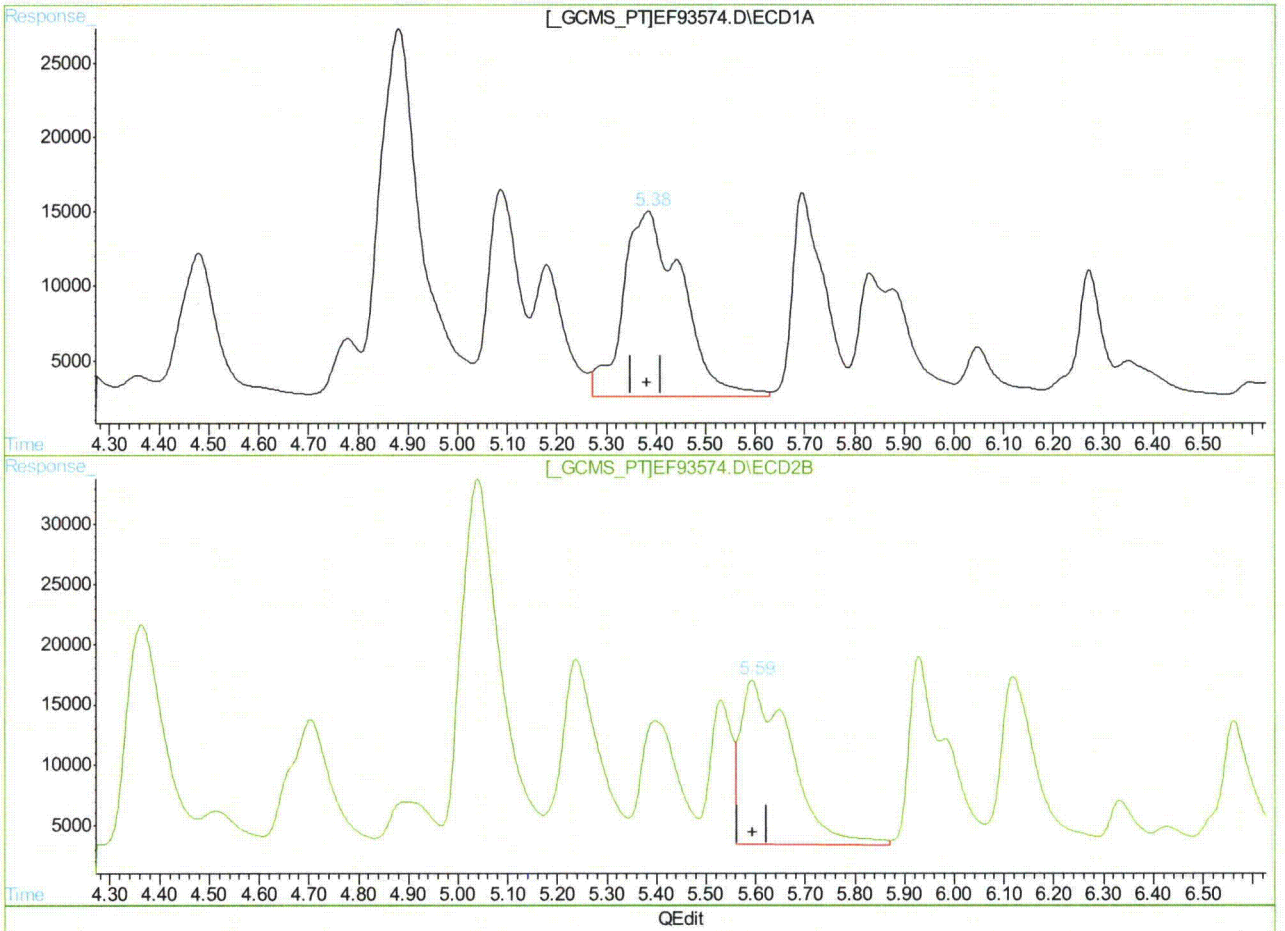
(+) = Expected Retention Time
EF93574.D PCB4061.M Thu Oct 14 14:44:28 2010 GCEF

10.6.68.2 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD2B.CH
Acq On : 14 Oct 2010 1:19 pm Operator: vinced
Sample : icv4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:43 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:35:36 2010
Response via : Multiple Level Calibration



(44) AR1016-D

5.38min 974.046PPB

response 1028041

(44) AR1016-D #2

5.59min 1038.079PPB m

response 952937

(+) = Expected Retention Time
EF93574.D PCB4061.M Thu Oct 14 14:44:36 2010 GCEF

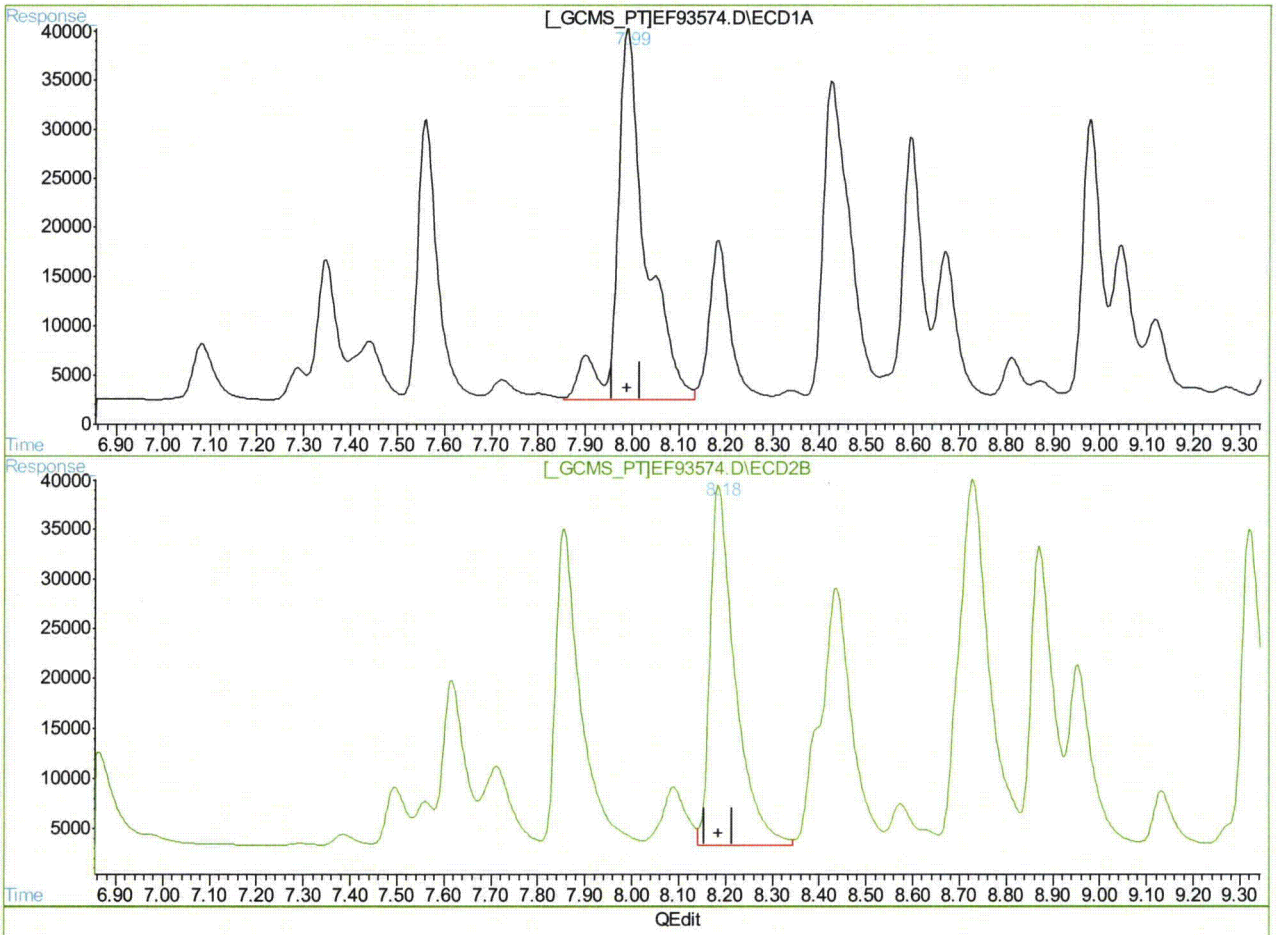
10.6.68.3 10

EF93574.D edits: AR1016-D

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD2B.CH
Acq On : 14 Oct 2010 1:19 pm Operator: vinced
Sample : icv4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:43 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:35:36 2010
Response via : Multiple Level Calibration



(46) AR1260-A

7.99min 1031.122PPB

response 1624057

(46) AR1260-A #2

8.19min 988.276PPB

response 1335324

(+) = Expected Retention Time
EF93574.D PCB4061.M Thu Oct 14 14:44:56 2010 GCEF

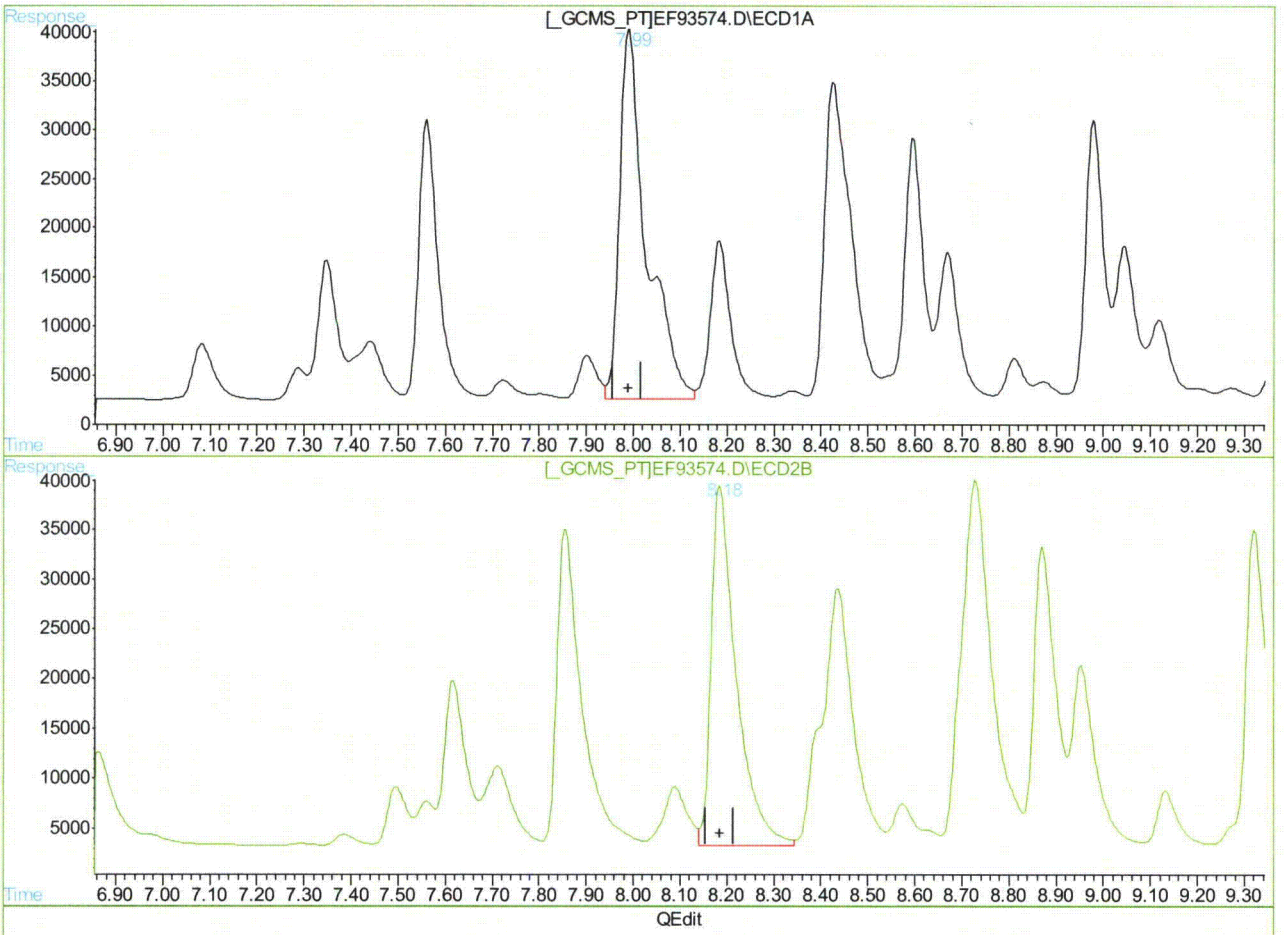
10.6.68.4 10

EF93574.D edits: AR1260-A

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF4061\EF93574.D\ECD2B.CH
Acq On : 14 Oct 2010 1:19 pm Operator: vinced
Sample : icv4061-1000 Inst : gcef
Misc : OP46105,GEF4061,940,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 14 14:43 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 14 14:35:36 2010
Response via : Multiple Level Calibration



(46) AR1260-A

7.99min 948.494PPB m

response 1493916

(46) AR1260-A #2

8.19min 988.276PPB

response 1335324

(+) = Expected Retention Time
EF93574.D PCB4061.M Thu Oct 14 14:45:02 2010 GCEF

10.6.68.5 10

EF93574.D edits: AR1260-A

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao
11/04/10 11:50

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD2B.CH
Acq On : 28 Oct 2010 1:54 pm Operator: vinced
Sample : cc4061-1000 Inst : gcef
Misc : OP46320,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 14:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 28 13:36:17 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.21	3.16	623678	813295	41.069	43.038
	Spiked Amount 40.000			Recovery	=	102.67%	107.60%
51)	S Decachlorobiphen	11.62	12.09	597175	764356	35.097	35.812m
	Spiked Amount 40.000			Recovery	=	87.74%	89.53%
	Target Compounds						
41)	AR1016-A	3.71	3.82	432848	523238	1027.831	1060.808
42)	AR1016-B	4.22	4.39	705492	917058	964.986	989.487
43)	AR1016-C	4.92	5.07	1448748	1720636	1036.181	1078.635
44)	AR1016-D	5.41	5.62	1004157	929271	951.417	1012.299
45)	AR1016-E	5.73	5.95	580175	766230	995.816	1011.547
46)	AR1260-A	8.01	8.20	1432675	1263644	909.613m	935.226
47)	AR1260-B	8.45	8.75	1198806	1566178	919.293	944.694
48)	AR1260-C	9.00	9.34	655774	915383	877.951	872.270
49)	AR1260-D	9.48	9.73	1595493	1996276	899.239	924.653
50)	AR1260-E	9.94	10.30	1609847	1980894	909.214	906.211

10.6.69 10

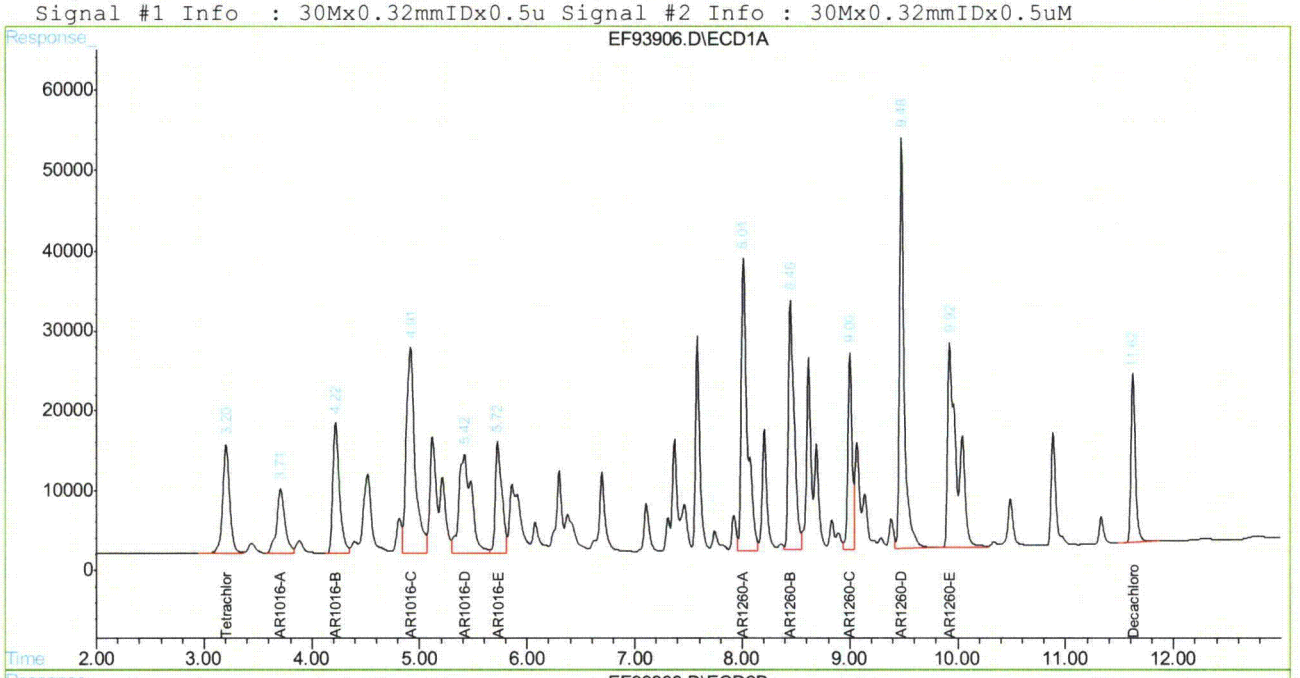
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93906.D PCB4061.M Tue Nov 02 14:15:45 2010 GCEF

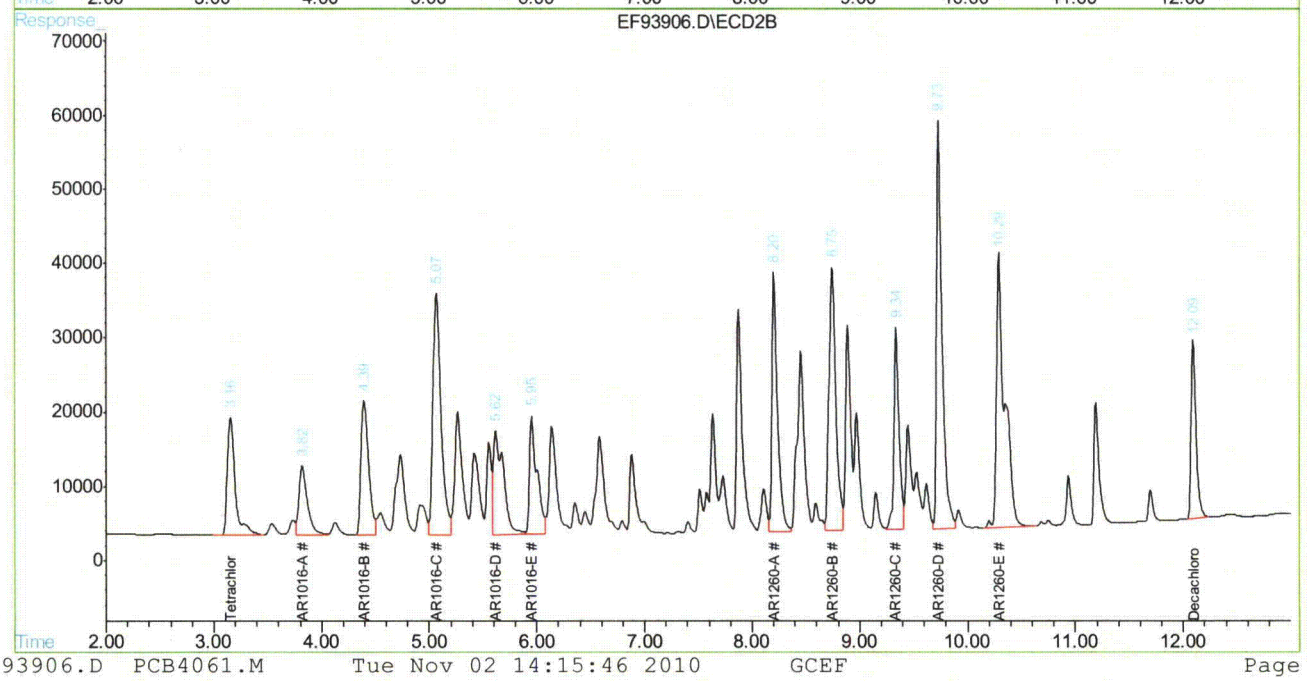
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD2B.CH
Acq On : 28 Oct 2010 1:54 pm Operator: vinced
Sample : cc4061-1000 Inst : gcef
Misc : OP46320,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 14:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 28 13:36:17 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





10.6.69 10

Manual Integration Approval Summary

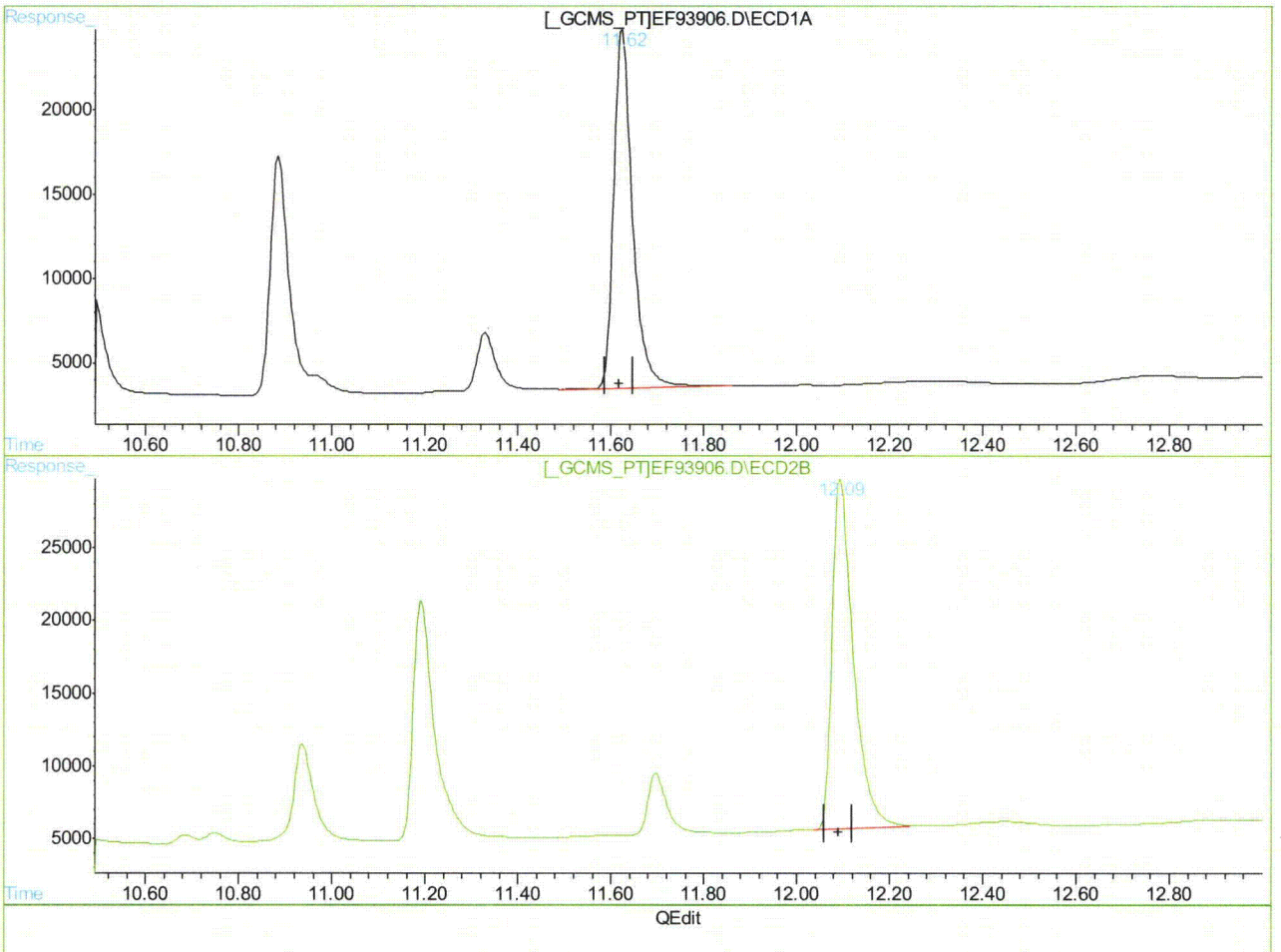
Sample Number: GEF4072-CC4061
Lab FileID: EF93906.D
Injection Time: 10/28/10 13:54
Method: SW846 8082
Analyst approved: 11/03/10 08:27 Vincent Drago
Supervisor approved: 11/04/10 11:50 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-A		1	8.01	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	12.09	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD2B.CH
Acq On : 28 Oct 2010 1:54 pm Operator: vinced
Sample : cc4061-1000 Inst : gcef
Misc : OP46320,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 14:12 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Tue Nov 02 14:50:57 2010
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

11.62min 35.097PPB

response 597175

(51) Decachlorobiphenyl #2 (S)

12.09min 35.812PPB m

response 764356

(+) = Expected Retention Time

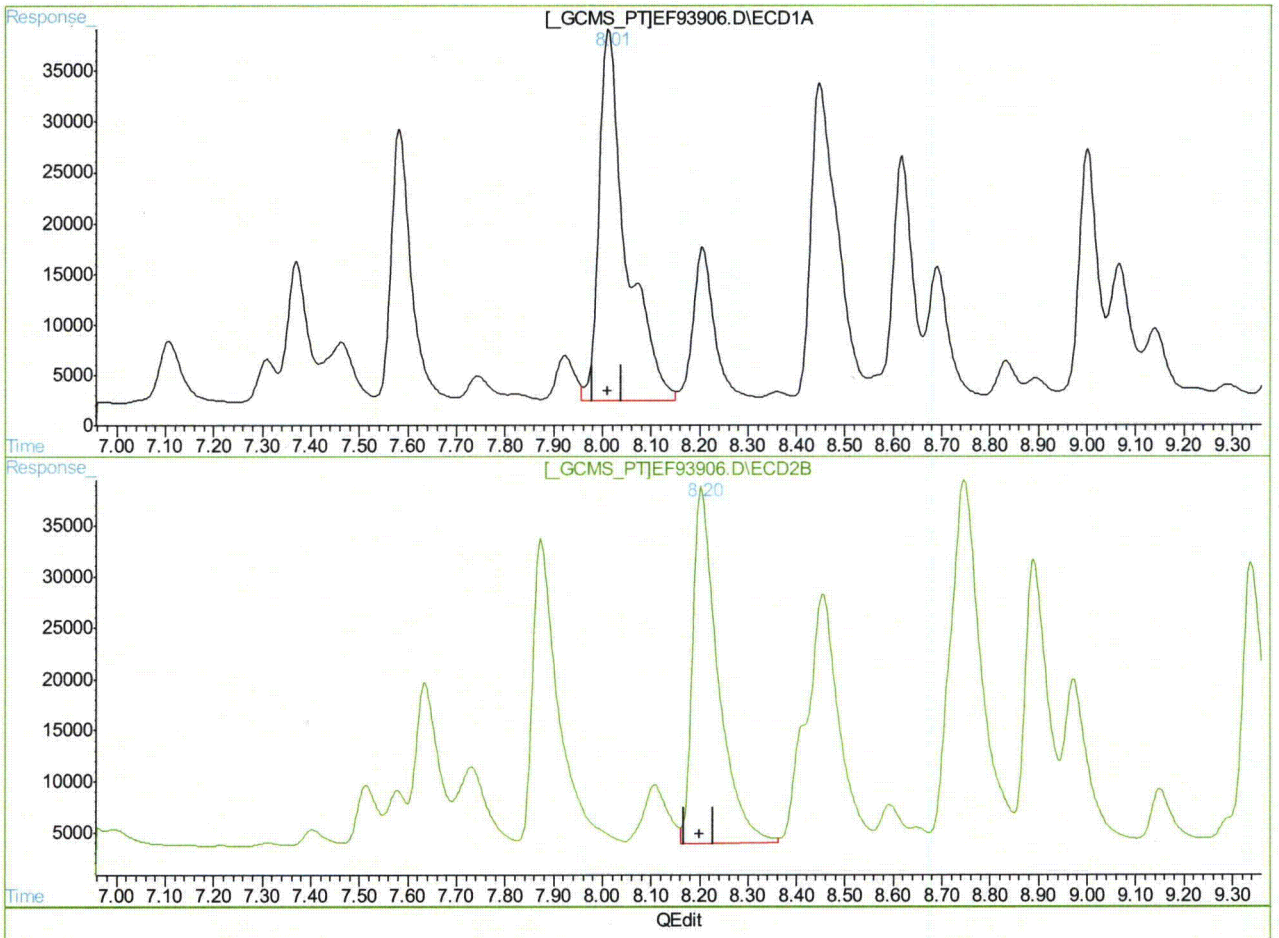
EF93906.D PCB4061.M Wed Nov 03 08:33:52 2010 GCEF

10.6.69.2 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93906.D\ECD2B.CH
Acq On : 28 Oct 2010 1:54 pm Operator: vinced
Sample : cc4061-1000 Inst : gcef
Misc : OP46320,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 14:12 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Nov 04 11:16:58 2010
Response via : Multiple Level Calibration



(46) AR1260-A

8.01min 909.613PPB m

response 1432675

(46) AR1260-A #2

8.20min 935.226PPB

response 1263644

(+) = Expected Retention Time
EF93906.D PCB4061.M Thu Nov 04 11:53:46 2010 GCEF

10.6.69.3 10

EF93906.D edits: AR1260-A

Manual Integrations APPROVED (compounds with "m" flag)
Cheng-Hwan Ao 11/03/10 09:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD2B.CH
Acq On : 28 Oct 2010 5:11 pm Operator: vinced
Sample : cc4061-500 Inst : gcef
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 18:02 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Oct 27 15:03:37 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.20	3.15	298933	389443	19.685	20.609m
	Spiked Amount 40.000			Recovery =		49.21%	51.52%
51)	S Decachlorobiphen	11.61	12.08	367274	481692	21.586	22.569
	Spiked Amount 40.000			Recovery =		53.96%	56.42%
	Target Compounds						
41)	AR1016-A	3.70	3.82	227070	274693	539.194	556.911
42)	AR1016-B	4.21	4.39	380796	499758	520.860	539.229
43)	AR1016-C	4.90	5.06	750770	882190	536.970	553.029
44)	AR1016-D	5.40	5.61	565077	500938	535.398m	545.695m
45)	AR1016-E	5.71	5.94	311260	421272	534.248	556.147
46)	AR1260-A	8.00	8.19	812071	726357	515.588	537.578
47)	AR1260-B	8.43	8.74	664183	881840	509.322	531.912
48)	AR1260-C	8.99	9.33	377416	547855	505.285	522.052
49)	AR1260-D	9.47	9.72	916205	1168547	516.384	541.258
50)	AR1260-E	9.93	10.29	903378	1154815	510.212	528.300

10.6.70 10

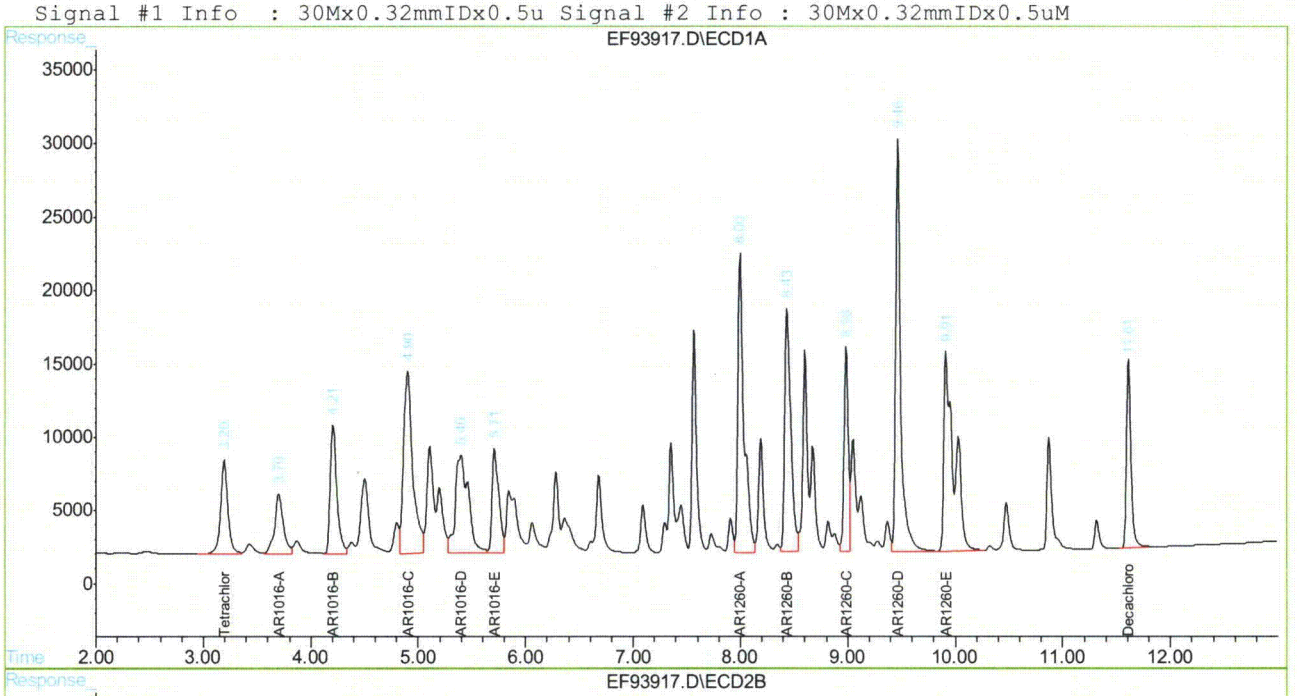
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93917.D PCB4061.M Tue Nov 02 14:16:20 2010 GCEF

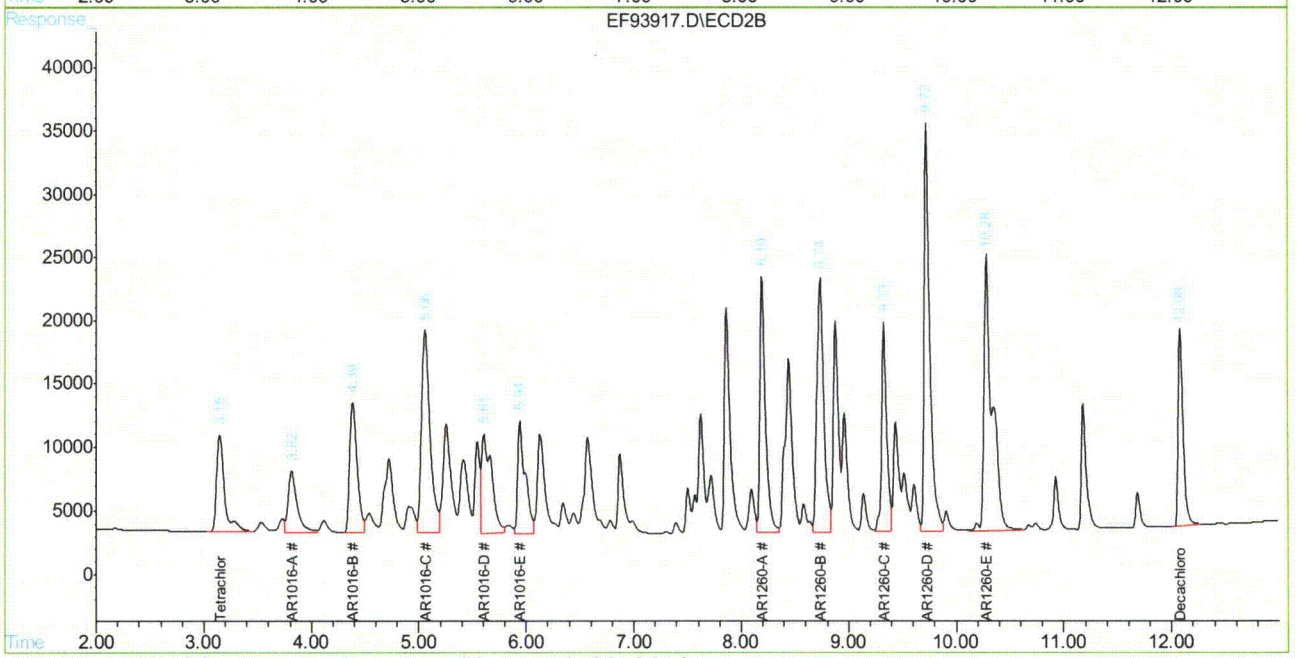
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD2B.CH
Acq On : 28 Oct 2010 5:11 pm Operator: vinced
Sample : cc4061-500 Inst : gcef
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 18:02 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Oct 27 15:03:37 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM





EF93917.D PCB4061.M Tue Nov 02 14:16:20 2010 GCEF Page 2

10.6.70 10

Manual Integration Approval Summary

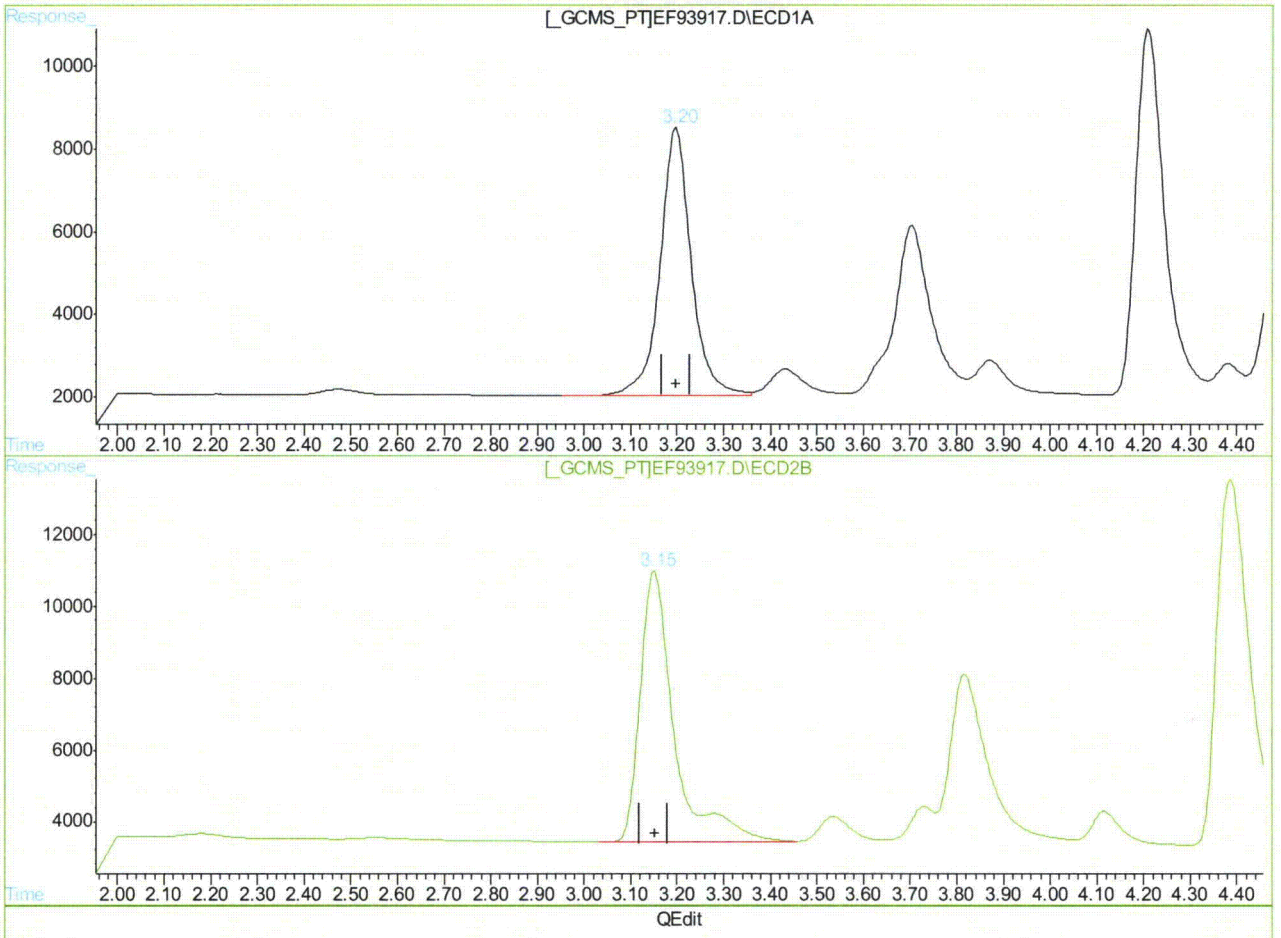
Sample Number: GEF4072-CC4061 **Method:** SW846 8082
Lab FileID: EF93917.D **Analyst approved:** 11/03/10 08:27 Vincent Drago
Injection Time: 10/28/10 17:11 **Supervisor approved:** 11/03/10 09:43 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	3.15	Poor instrument integration
AR1016-D		1	5.40	Poor instrument integration
AR1016-D		2	5.61	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD2B.CH
Acq On : 28 Oct 2010 5:11 pm Operator: vinced
Sample : cc4061-500 Inst : gcef
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 18:02 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Tue Nov 02 12:07:18 2010
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.20min 19.685PPB

response 298933

(1) Tetrachloro-m-xylene #2 (S)

3.15min 20.609PPB m

response 389443

(+) = Expected Retention Time
EF93917.D PCB4061.M Tue Nov 02 14:16:26 2010 GCEF

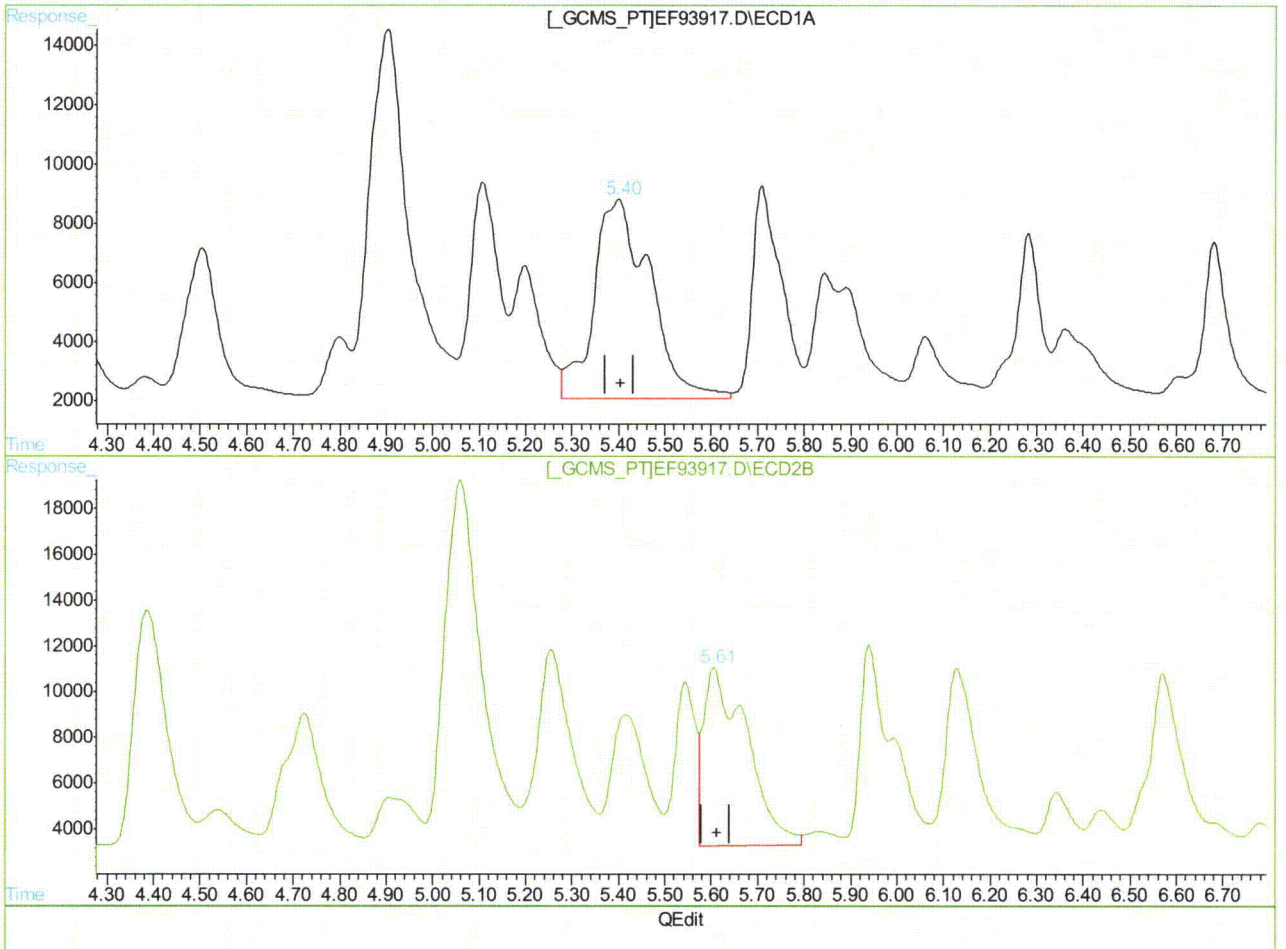
10.6.70.2 10

EF93917.D edits: Tetrachloro-m-xylene

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93917.D\ECD2B.CH
Acq On : 28 Oct 2010 5:11 pm Operator: vinced
Sample : cc4061-500 Inst : gcef
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 28 18:02 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Tue Nov 02 12:07:18 2010
Response via : Multiple Level Calibration



(44) AR1016-D

5.40min 535.398PPB m

response 565077

(44) AR1016-D #2

5.61min 545.695PPB m

response 500938

(+) = Expected Retention Time
EF93917.D PCB4061.M Tue Nov 02 14:16:32 2010 GCEF

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93928.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93928.D\ECD2B.CH
Acq On : 28 Oct 2010 8:56 pm Operator: vinced
Sample : cc4061-1000 Inst : gcef
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 29 8:14 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 28 13:36:17 2010
Response via : Initial Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.19f	3.15f	639128	828742	42.087	43.856
	Spiked Amount 40.000			Recovery	=	105.22%	109.64%
51)	S Decachlorobiphen	11.60f	12.08	724646	973119	42.589	45.593
	Spiked Amount 40.000			Recovery	=	106.47%	113.98%
	Target Compounds						
41)	AR1016-A	3.70f	3.81	433526	529291	1029.439	1073.082
42)	AR1016-B	4.20f	4.38	715344	949734	978.461	1024.745
43)	AR1016-C	4.90f	5.05	1458821	1748548	1043.386	1096.133
44)	AR1016-D	5.39	5.60	1063096	1014806	1007.260	1105.476
45)	AR1016-E	5.71f	5.94	603378	826251	1035.641	1090.784
46)	AR1260-A	7.99f	8.19	1559584	1434169	990.187	1061.431
47)	AR1260-B	8.43f	8.73	1328562	1796235	1018.796	1083.460
48)	AR1260-C	8.98f	9.32	753501	1116281	1008.788	1063.706
49)	AR1260-D	9.46f	9.72	1854674	2395572	1045.317	1109.603
50)	AR1260-E	9.92f	10.28	1896118	2445544	1070.895	1118.777

10.6.71 10

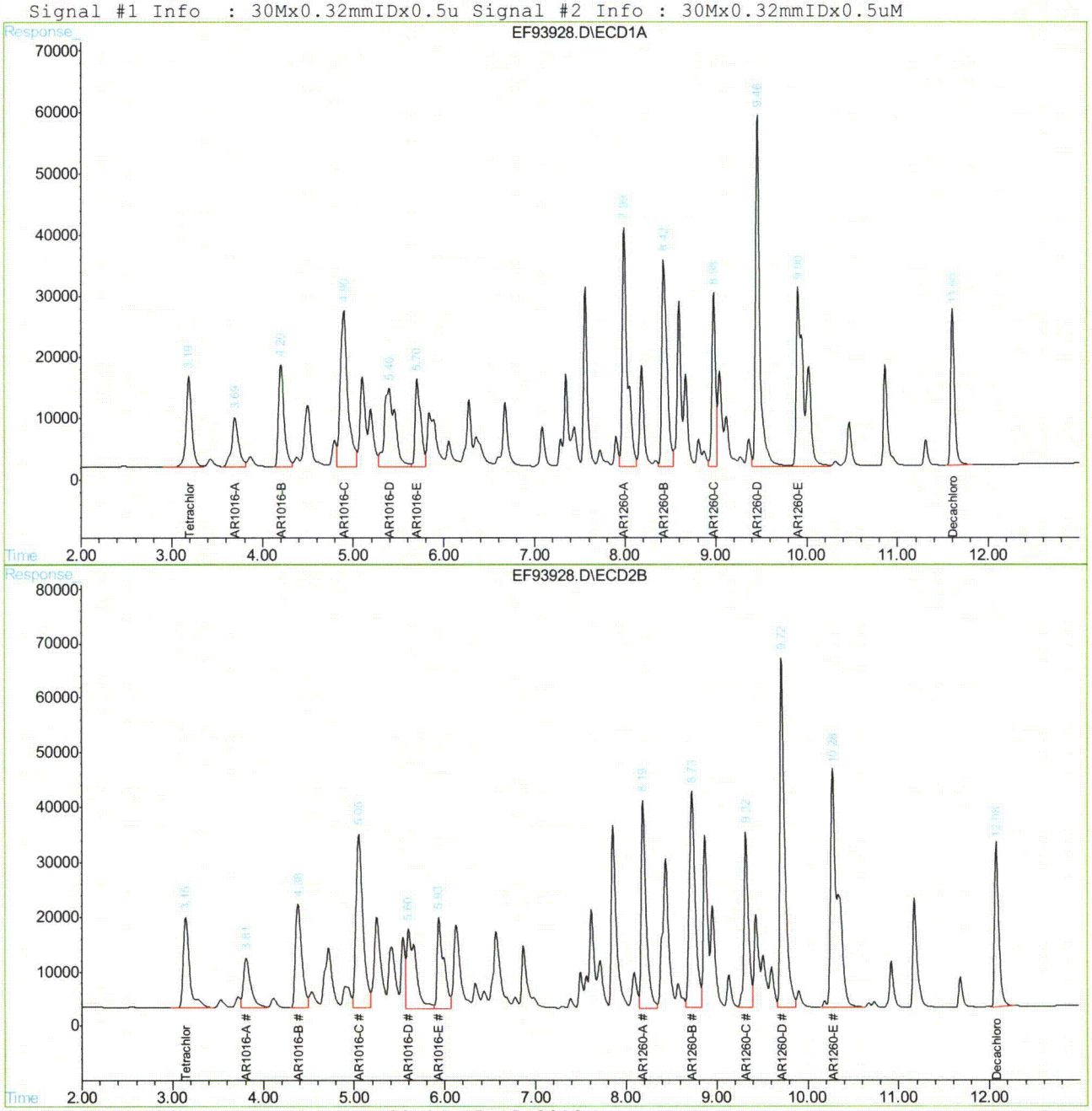
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF93928.D PCB4061.M Tue Nov 02 14:17:15 2010 GCEF

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93928.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93928.D\ECD2B.CH
Acq On : 28 Oct 2010 8:56 pm Operator: vinced
Sample : cc4061-1000 Inst : gcef
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 29 8:14 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Oct 28 13:36:17 2010
Response via : Multiple Level Calibration
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90007.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90007.D\ECD2B.CH
Acq On : 3 May 2010 3:17 pm Operator: toyar
Sample : ic3143-500 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:53 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:51:21 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
2) S	2,4-DCAA	15.13	14.63	2108.3E6	898.5E6	1000.654	1002.565
	Spiked Amount 500.000			Recovery	=	200.13%	200.51%
	Target Compounds						
1)	Dalapon	6.12	5.20	338.4E6	155.2E6	99.929	101.594
3)	Dicamba	15.40	14.89	1092.5E6	419.2E6	102.575	99.547
4)	MCPP	15.71	15.10	138.6E6	62459119	26709.454	23852.561
5)	MCPA	15.94	15.44	222.3E6	99252348	26819.776	22356.607
6)	Dichloroprop	16.49	15.92	1583.1E6	599.2E6	507.911	490.423
7)	2,4-D	16.83	16.37	1561.9E6	653.0E6	509.808	473.397
8)	Pentachloropheno	17.15	16.84	2351.5E6	916.9E6	52.272	52.804
9)	2,4,5-TP	17.95	17.42	1852.6E6	737.3E6	104.280	105.010
10)	2,4,5-T	18.32	17.91	1632.3E6	618.7E6	103.421	92.422
11)	2,4-DB	18.99	18.53	822.9E6	340.2E6	551.116	474.788
12)	Dinoseb	20.28	18.89	7671.7E6	2499.3E6	467.724	509.417
13)	Picloram	20.11	20.00	10229.2E6	4607.1E6	579.949	542.203

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90007.D HWW3143.M Tue May 04 11:14:28 2010 GCCD

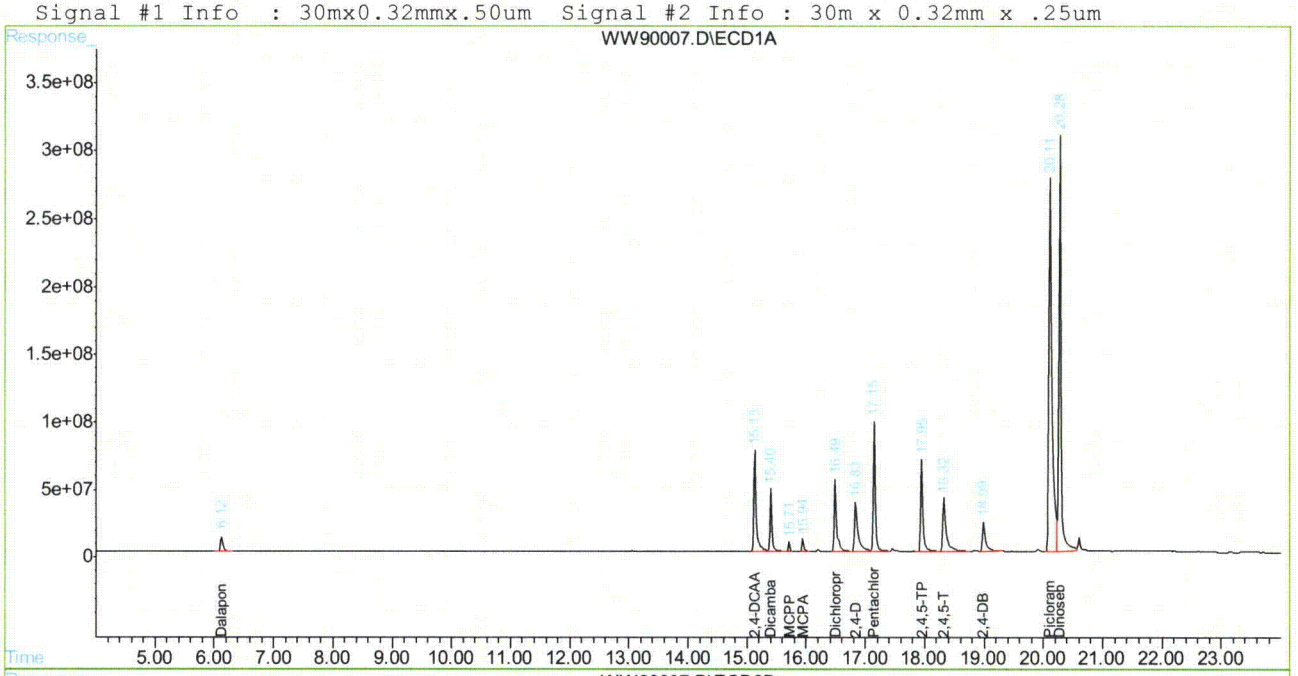
10.6.72 10

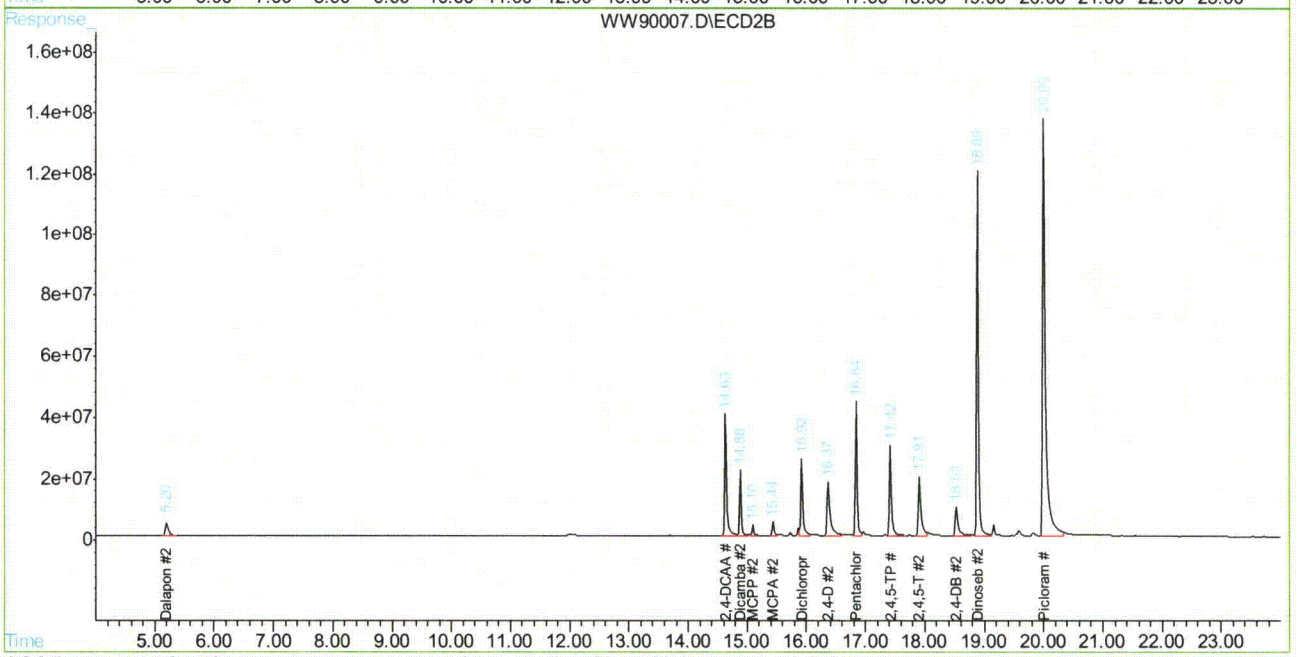
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90007.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90007.D\ECD2B.CH
Acq On : 3 May 2010 3:17 pm Operator: toyar
Sample : ic3143-500 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:53 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:51:21 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um





10.6.72 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90008.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90008.D\ECD2B.CH
Acq On : 3 May 2010 3:49 pm Operator: toyar
Sample : ic3143-400 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:54 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:53:22 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
2) S	2,4-DCAA	15.13	14.64	1665.7E6	715.0E6	790.310	796.847
	Spiked Amount 500.000			Recovery	=	158.06%	159.37%
	Target Compounds						
1)	Dalapon	6.12	5.20	271.3E6	124.9E6	80.157	81.081
3)	Dicamba	15.40	14.89	858.2E6	337.6E6	79.553	80.345
4)	MCPP	15.71	15.10	108.6E6	63328933	20239.873	24752.781
5)	MCPA	15.94	15.44	180.2E6	84776376	20979.317	20161.804
6)	Dichloroprop	16.49	15.92	1261.7E6	480.8E6	401.628	397.373
7)	2,4-D	16.84	16.37	1243.6E6	534.5E6	401.965	398.095
8)	Pentachloropheno	17.15	16.84	1841.2E6	709.8E6	40.018	39.762
9)	2,4,5-TP	17.95	17.42	1447.0E6	572.7E6	79.744	79.577
10)	2,4,5-T	18.33	17.91	1275.5E6	473.0E6	79.456	73.439
11)	2,4-DB	19.00	18.53	626.9E6	274.4E6	399.427	392.895
12)	Dinoseb	20.28	18.89	6333.0E6	1985.3E6	398.986	400.875
13)	Picloram	20.11	20.01	7552.0E6	3542.2E6	396.468	399.995

10.6.73 10

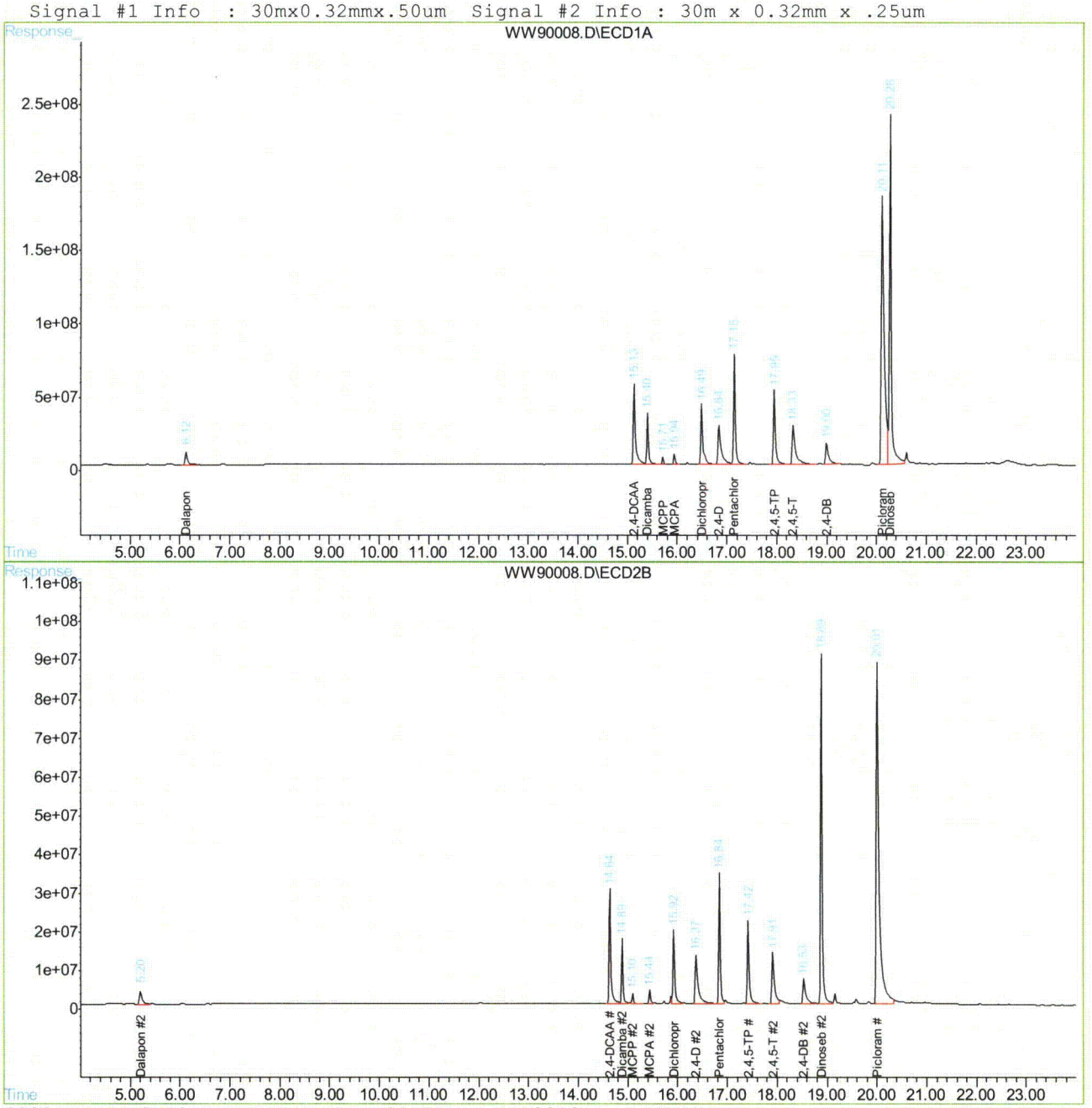
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90008.D HWW3143.M Tue May 04 11:14:40 2010 GCCD

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90008.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90008.D\ECD2B.CH
Acq On : 3 May 2010 3:49 pm Operator: toyar
Sample : ic3143-400 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:54 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:53:22 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



10.6.73 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90009.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90009.D\ECD2B.CH
Acq On : 3 May 2010 4:33 pm Operator: toyar
Sample : icc3143-300 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:51 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:51:21 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
2) S	2,4-DCAA	15.13	14.64	1264.2E6	537.7E6	600.000	600.000
	Spiked Amount 500.000			Recovery	=	120.00%	120.00%
	Target Compounds						
1)	Dalapon	6.12	5.20	203.2E6	91670226	60.000	60.000
3)	Dicamba	15.41	14.89	639.1E6	252.7E6	60.000	60.000
4)	MCPP	15.71	15.10	77839037	39278248	15000.000	15000.000
5)	MCPA	15.94	15.44	124.3E6	66592627	15000.000	15000.000
6)	Dichloroprop	16.49	15.92	935.0E6	366.5E6	300.000	300.000
7)	2,4-D	16.84	16.37	919.1E6	413.8E6	300.000	300.000
8)	Pentachlorophenol	17.15	16.84	1349.6E6	520.9E6	30.000	30.000
9)	2,4,5-TP	17.95	17.42	1065.9E6	421.3E6	60.000	60.000
10)	2,4,5-T	18.33	17.91	947.0E6	401.6E6	60.000	60.000
11)	2,4-DB	19.00	18.54	448.0E6	215.0E6	300.000	300.000
12)	Dinoseb	20.28	18.89	4920.7E6	1471.9E6	300.000	300.000
13)	Picloram	20.12	20.01	5291.4E6	2549.1E6	300.000	300.000

10.6.74 10

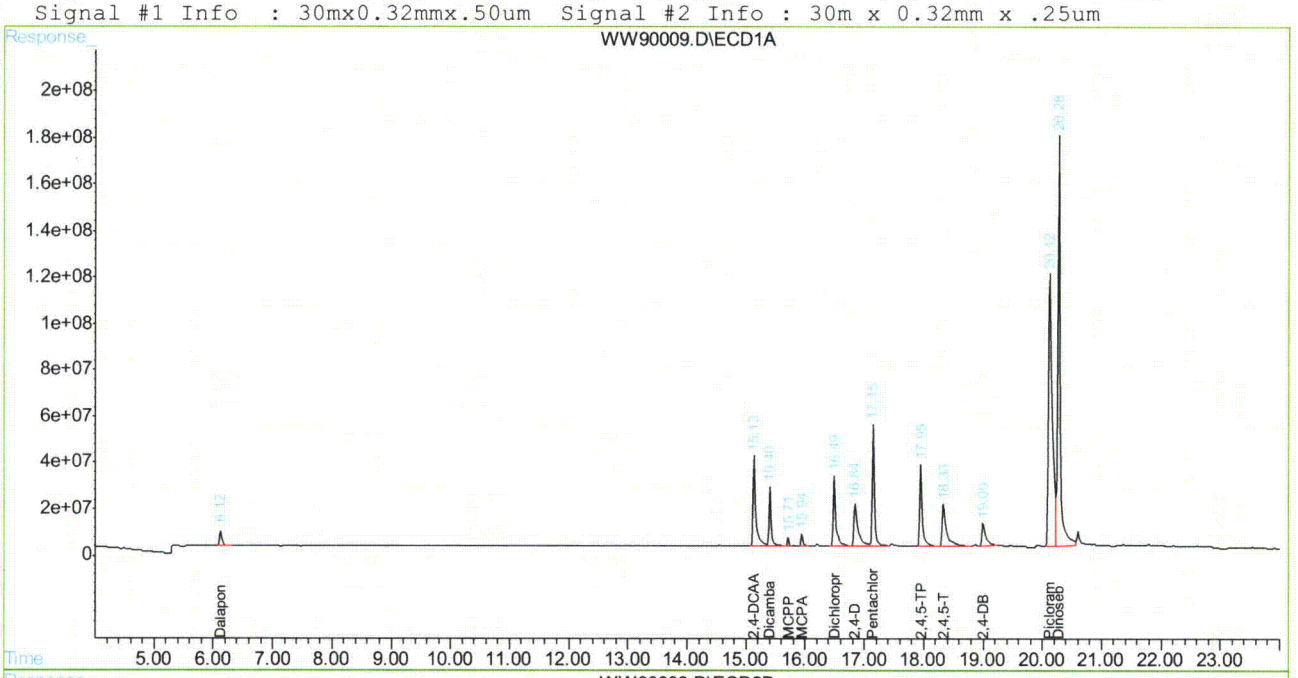
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90009.D HWW3143.M Wed May 05 11:38:18 2010 GCCD

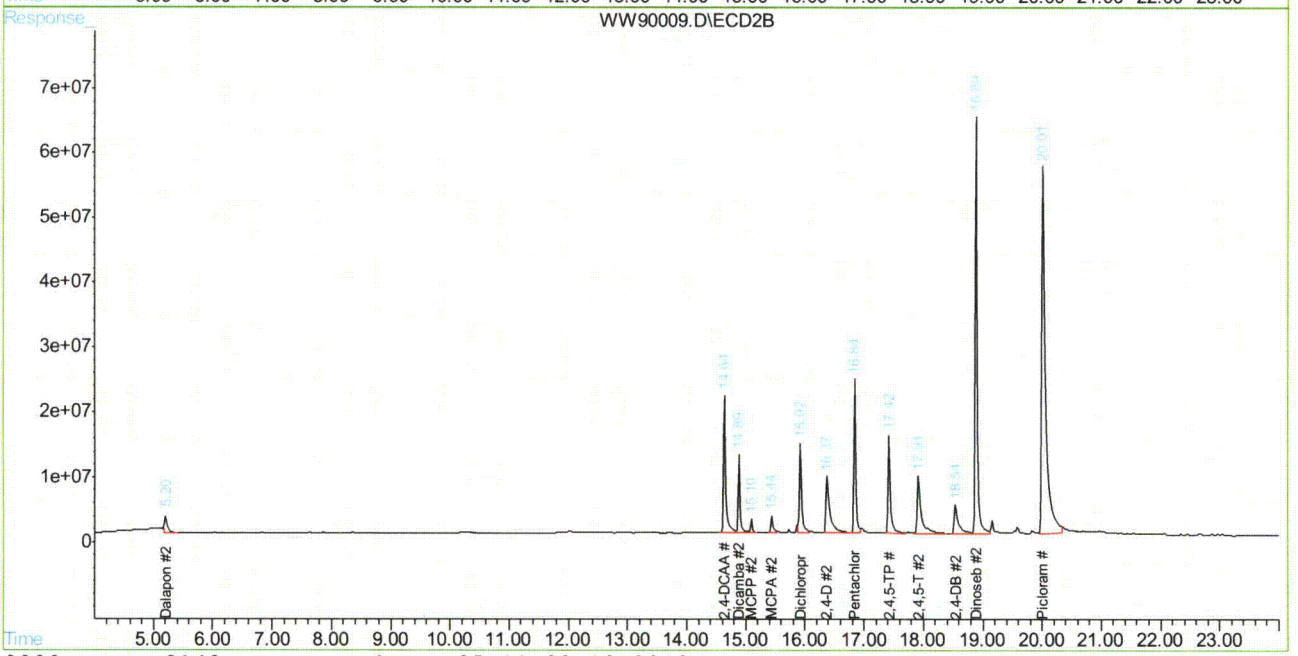
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90009.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90009.D\ECD2B.CH
Acq On : 3 May 2010 4:33 pm Operator: toyar
Sample : icc3143-300 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:51 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:51:21 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



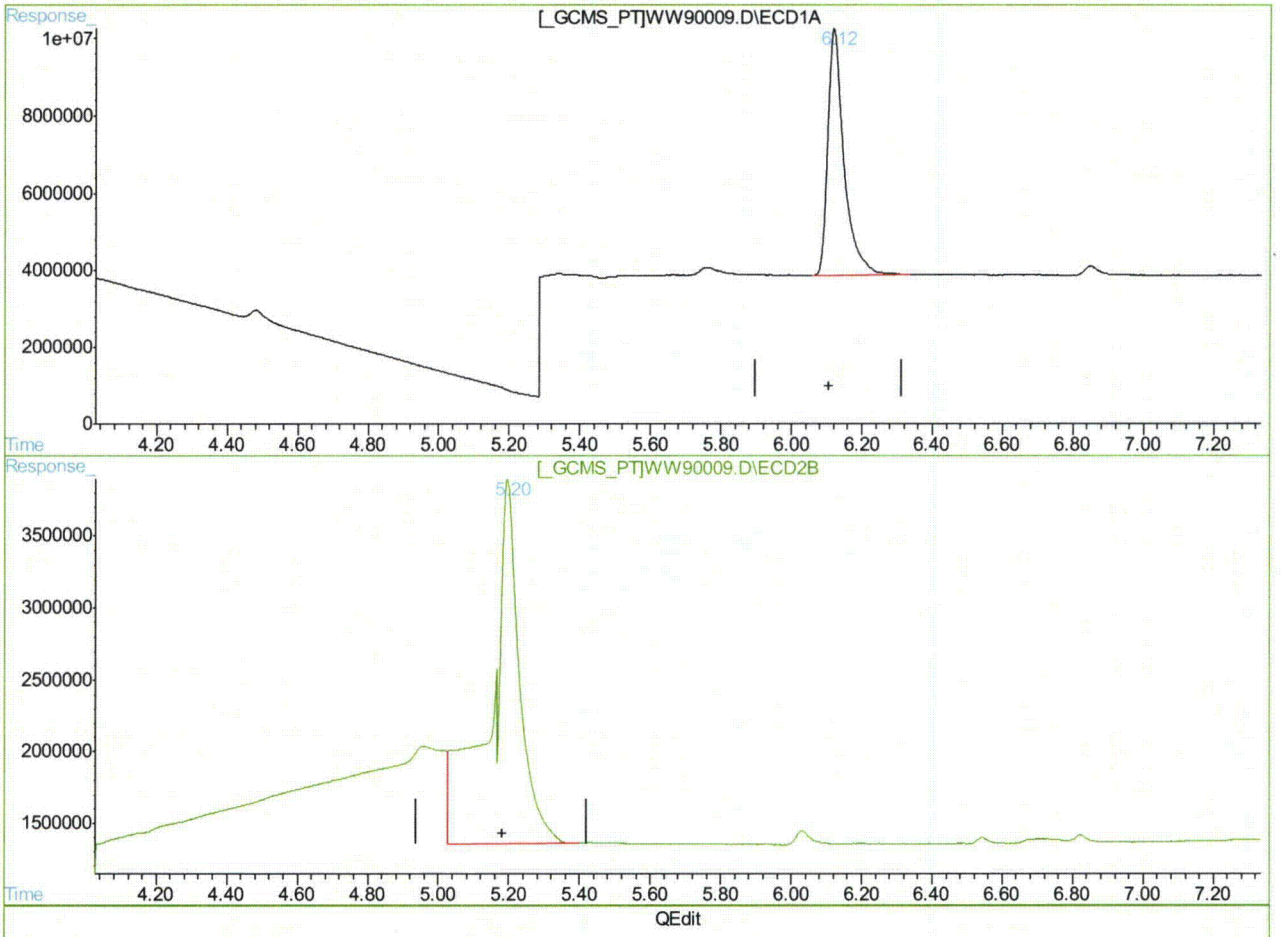


10.6.74 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90009.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90009.D\ECD2B.CH
Acq On : 3 May 2010 4:33 pm Operator: toyar
Sample : icc3143-300 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 3 16:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Fri Apr 30 16:32:04 2010
Response via : Multiple Level Calibration



(1) Dalapon

6.12min 67.380PPB

response 202872030

(1) Dalapon #2

5.20min 96.088PPB

response 151532075

(+) = Expected Retention Time
WW90009.D HWW3143.M Tue May 04 08:40:28 2010 GCCD

10.6.74.1 10

WW90009.D edits: Dalapon

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90010.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90010.D\ECD2B.CH
Acq On : 3 May 2010 5:04 pm Operator: toyar
Sample : ic3143-200 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:57 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:54:38 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
2) S	2,4-DCAA	15.14	14.64	882.1E6	372.5E6	420.229	415.621
	Spiked Amount 500.000			Recovery	=	84.05%	83.12%
	Target Compounds						
1)	Dalapon	6.12	5.20	139.2E6	65812861	41.111	42.544
3)	Dicamba	15.41	14.89	451.2E6	172.5E6	41.907	41.000
4)	MCPP	15.71	15.10	56893342	27774346	10558.993	10059.085
5)	MCPA	15.95	15.44	106.0E6	50208864	12146.787	11908.727
6)	Dichloroprop	16.49	15.93	671.7E6	264.7E6	213.513	219.272
7)	2,4-D	16.85	16.38	647.2E6	285.4E6	208.857	212.879
8)	Pentachloropheno	17.15	16.84	920.7E6	341.9E6	20.008	19.192
9)	2,4,5-TP	17.95	17.42	719.2E6	280.9E6	39.678	39.102
10)	2,4,5-T	18.34	17.92	638.1E6	231.2E6	39.836	36.904
11)	2,4-DB	19.01	18.55	306.7E6	148.9E6	195.527	214.484
12)	Dinoseb	20.28	18.89	3488.5E6	1004.3E6	219.962	202.645
13)	Picloram	20.13	20.02	3208.7E6	1652.9E6	168.948	186.657

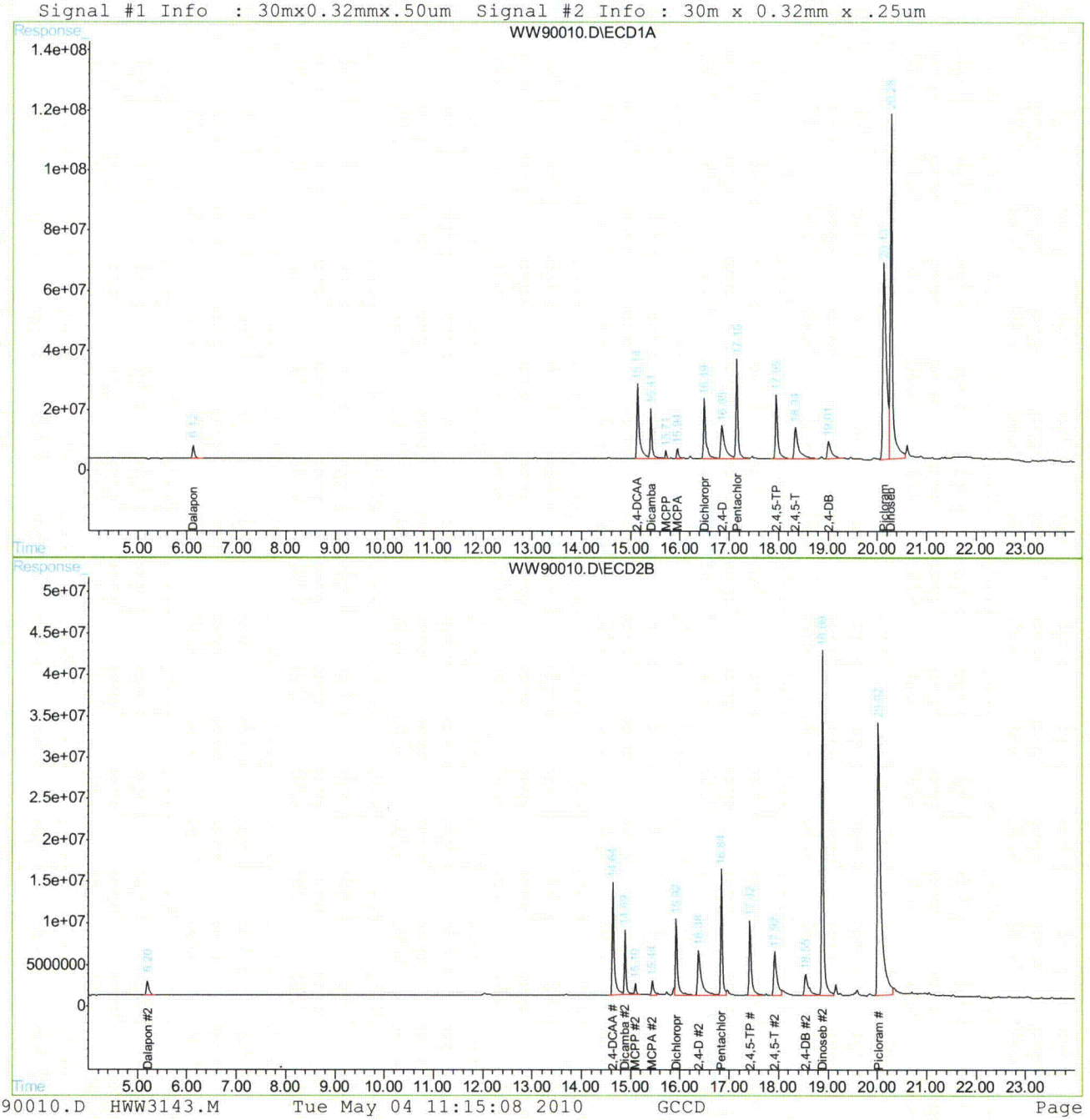
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90010.D HWW3143.M Tue May 04 11:15:07 2010 GCCD

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90010.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90010.D\ECD2B.CH
Acq On : 3 May 2010 5:04 pm Operator: toyar
Sample : ic3143-200 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 8:57 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:54:38 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 05/13/10 09:39

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD2B.CH
Acq On : 3 May 2010 5:34 pm Operator: toyar
Sample : ic3143-100 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:17 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:57:50 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
2) S	2,4-DCAA	15.15	14.65	485.1E6	206.4E6	228.214	228.058
	Spiked Amount 500.000			Recovery	=	45.64%	45.61%
	Target Compounds						
1)	Dalapon	6.12	5.20	75081360	36402271	22.015	23.163
3)	Dicamba	15.41	14.89	242.0E6	93552620	22.209	22.096
4)	MCPP	15.72	15.10	25861809	15852027	4733.613	5732.689
5)	MCPA	15.95	15.45	53836668	30702917	5852.552	6950.565m
6)	Dichloroprop	16.50	15.93	353.5E6	158.0E6	110.502	127.804
7)	2,4-D	16.86f	16.39	329.3E6	162.3E6	105.096	119.141
8)	Pentachloropheno	17.15	16.85	465.0E6	175.3E6	10.104	9.941
9)	2,4,5-TP	17.95	17.42	379.6E6	148.2E6	20.985	20.743
10)	2,4,5-T	18.35f	17.93	344.9E6	123.4E6	21.556	20.095
11)	2,4-DB	19.02f	18.56f	157.9E6	84579451	101.203	119.650
12)	Dinoseb	20.28	18.89	1919.9E6	513.3E6	118.113	103.227
13)	Picloram	20.15f	20.03f	1468.7E6	811.6E6	80.452	93.198

10.6.76 10

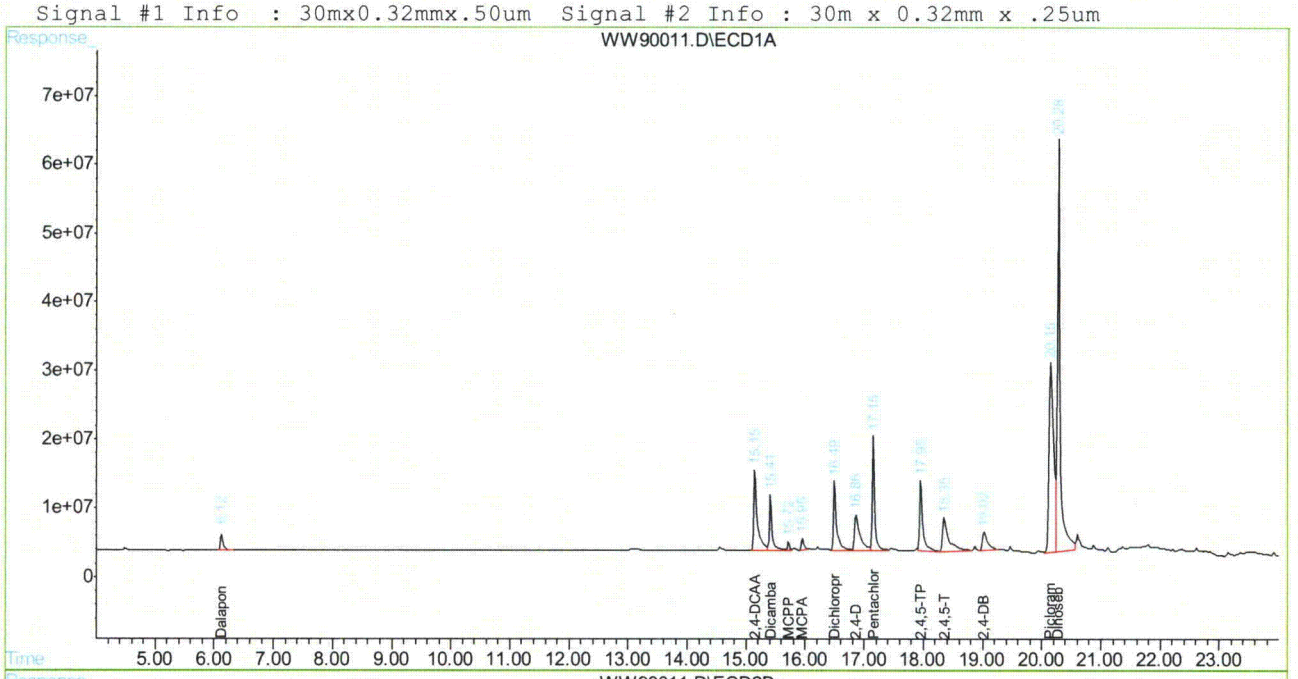
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90011.D HWW3143.M Tue May 04 11:15:21 2010 GCCD

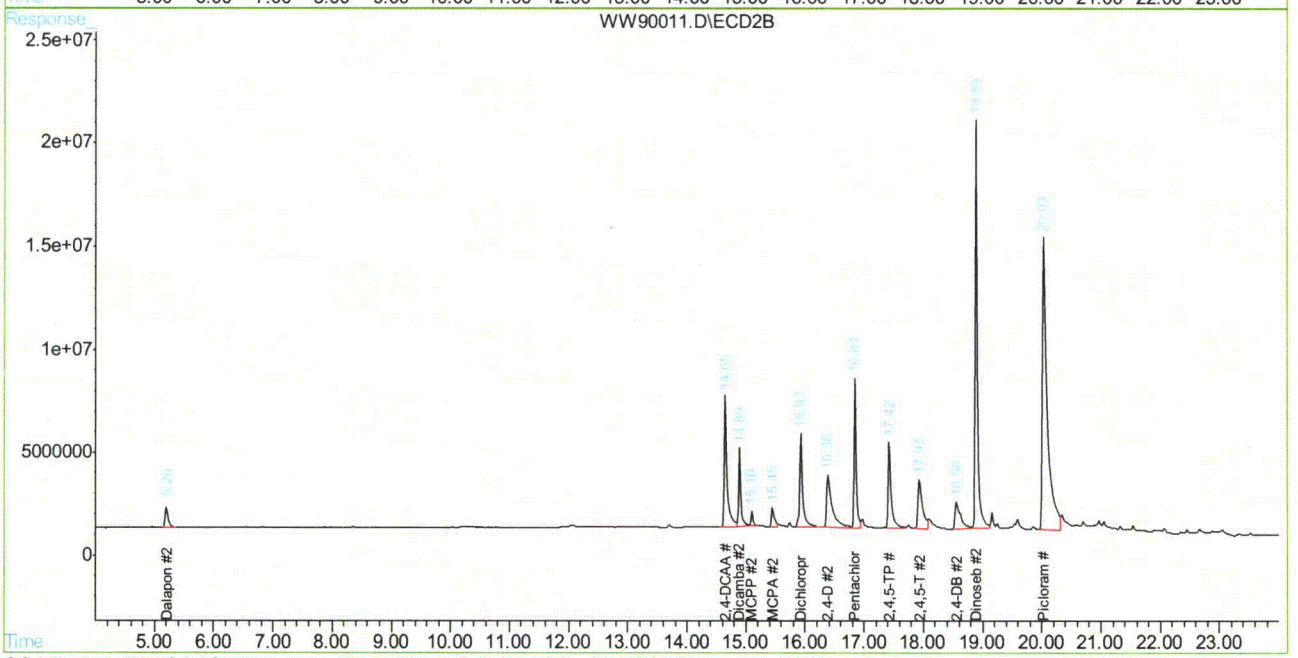
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD2B.CH
Acq On : 3 May 2010 5:34 pm Operator: toyar
Sample : ic3143-100 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:17 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 08:57:50 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um





10.6.76 10

Manual Integration Approval Summary

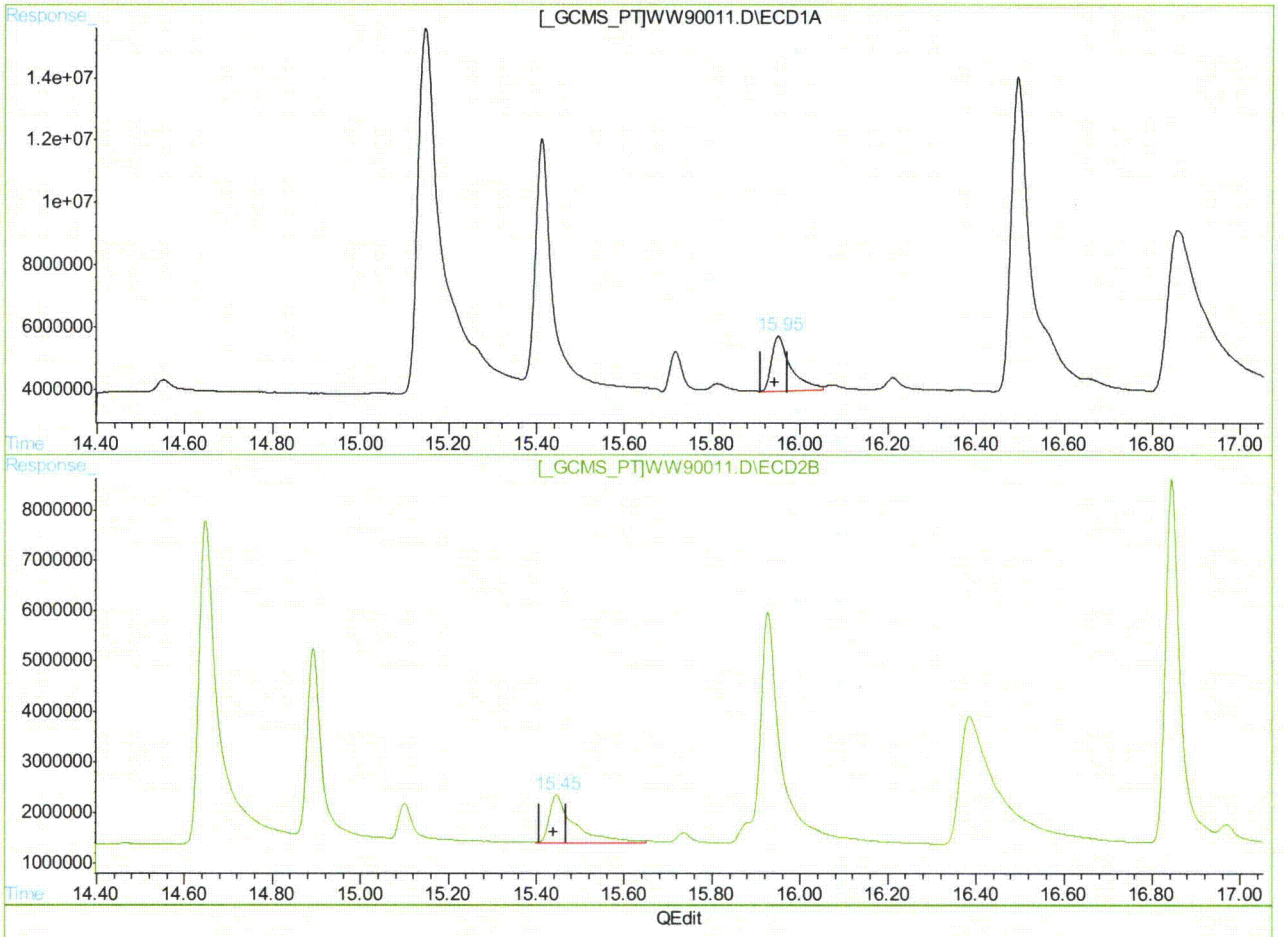
Sample Number: GWW3143-IC3143
Lab FileID: WW90011.D
Injection Time: 05/03/10 17:34
Method: SW846 8151
Analyst approved: 05/04/10 11:14 Toya Dagena Raffington
Supervisor approved: 05/13/10 09:39 Owen McKenna

Parameter	CAS	Sig#	R.T. (min.)	Reason
MCPA	94-74-6	2	15.45	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD2B.CH
Acq On : 3 May 2010 5:34 pm Operator: toyar
Sample : ic3143-100 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:07:45 2010
Response via : Multiple Level Calibration



(5) MCPA

15.95min 5852.552PPB

response 53836668

(5) MCPA #2

15.45min 8264.022PPB

response 36504888

(+) = Expected Retention Time
WW90011.D HWW3143.M Tue May 04 09:11:00 2010 GCCD

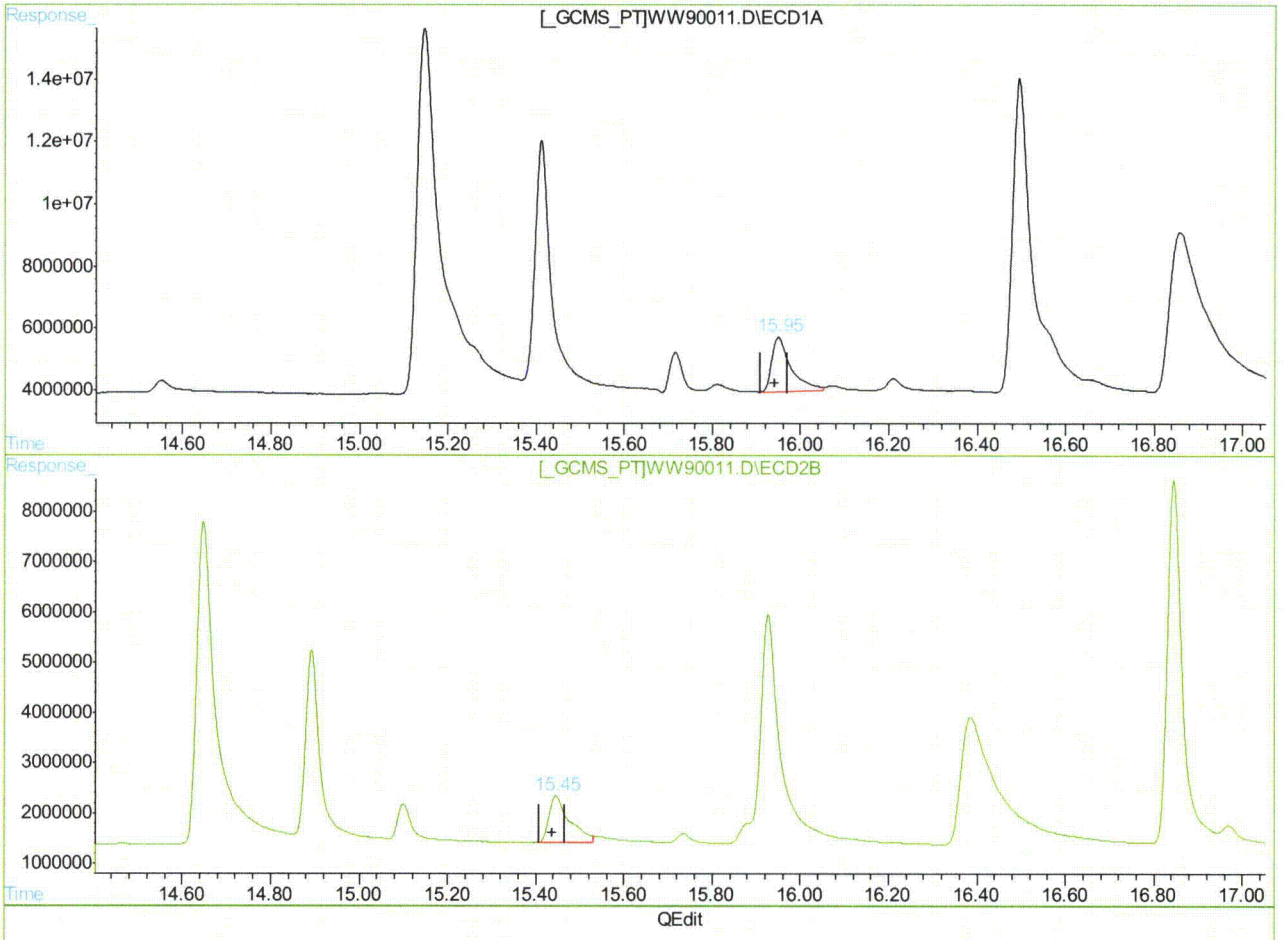
10.6.76.2 10

WW90011.D edits: MCPA

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90011.D\ECD2B.CH
Acq On : 3 May 2010 5:34 pm Operator: toyar
Sample : ic3143-100 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:17 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 10:51:55 2010
Response via : Multiple Level Calibration



(5) MCPA

15.95min 5852.552PPB

response 53836668

(5) MCPA #2

15.45min 6950.565PPB m

response 30702917

(+) = Expected Retention Time
WW90011.D HWW3143.M Tue May 04 11:12:30 2010 GCCD

10.6.76.3 10

WW90011.D edits: MCPA

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 05/13/10 09:39

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:18 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:01:45 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
2) S	2,4-DCAA	15.16	14.66	226.6E6	98816140	103.673	106.222
	Spiked Amount 500.000			Recovery	=	20.73%	21.24%
	Target Compounds						
1)	Dalapon	6.12	5.20	34163032	16951695	9.819	10.456
3)	Dicamba	15.42	14.90	116.8E6	46043004	10.485	10.652
4)	MCPP	15.72	15.11	9526278	10155279	1762.421	3567.963 #
5)	MCPA	15.96	15.45	27435762	16272872	2884.169	3258.447m
6)	Dichloroprop	16.50	15.93	154.7E6	75930904	47.364m	58.174
7)	2,4-D	16.87	16.40	143.0E6	70453125	45.178	49.819
8)	Pentachloropheno	17.16	16.85	209.9E6	73687429	4.551	4.183
9)	2,4,5-TP	17.96	17.43	158.4E6	64549386	8.672	8.969
10)	2,4,5-T	18.36	17.94	104.1E6	52358901	6.406	8.515 #
11)	2,4-DB	19.04	18.57	73165520	34368669	46.789	46.781m
12)	Dinoseb	20.28	18.89	916.6E6	228.0E6	54.417	45.562
13)	Picloram	20.16	20.05	547.4E6	328.0E6	31.204	38.186

10.6.77 10

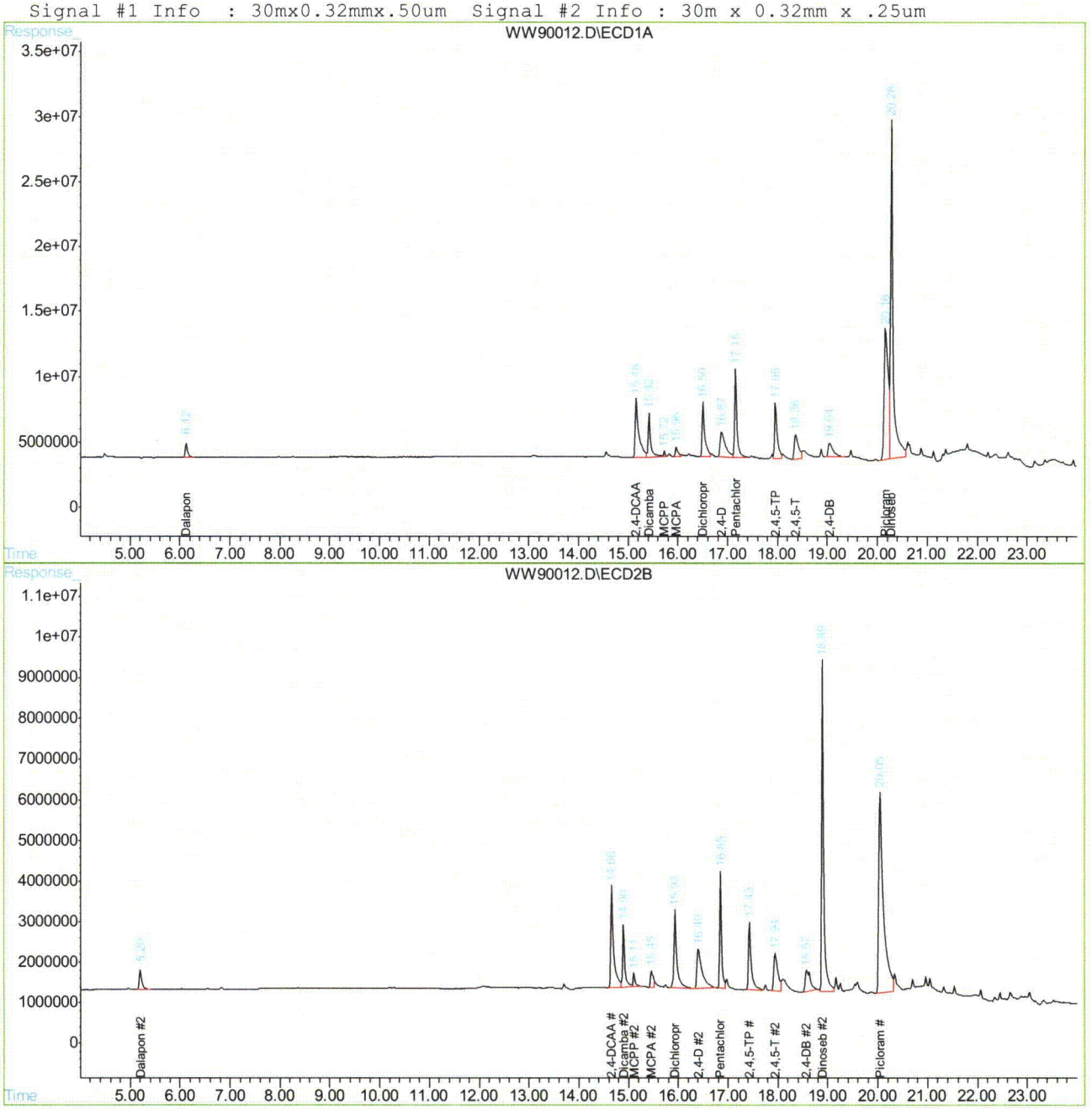
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90012.D HWW3143.M Wed May 05 11:37:28 2010 GCCD

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:18 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:01:45 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

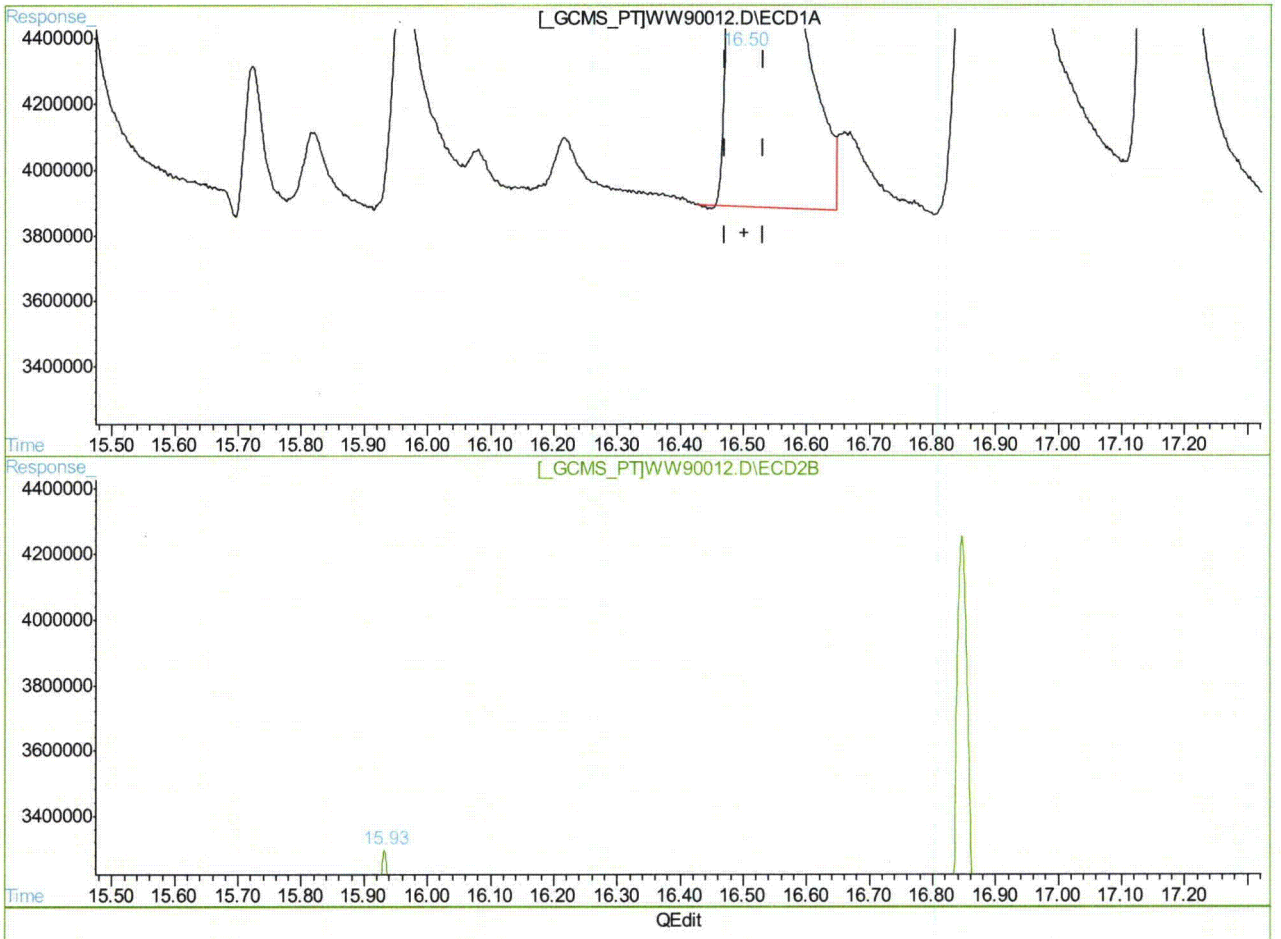


10.6.77 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:06 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:01:45 2010
Response via : Multiple Level Calibration



(6) Dichloroprop

16.50min 46.723PPB

response 152602037

(6) Dichloroprop #2

15.93min 58.174PPB

response 75930904

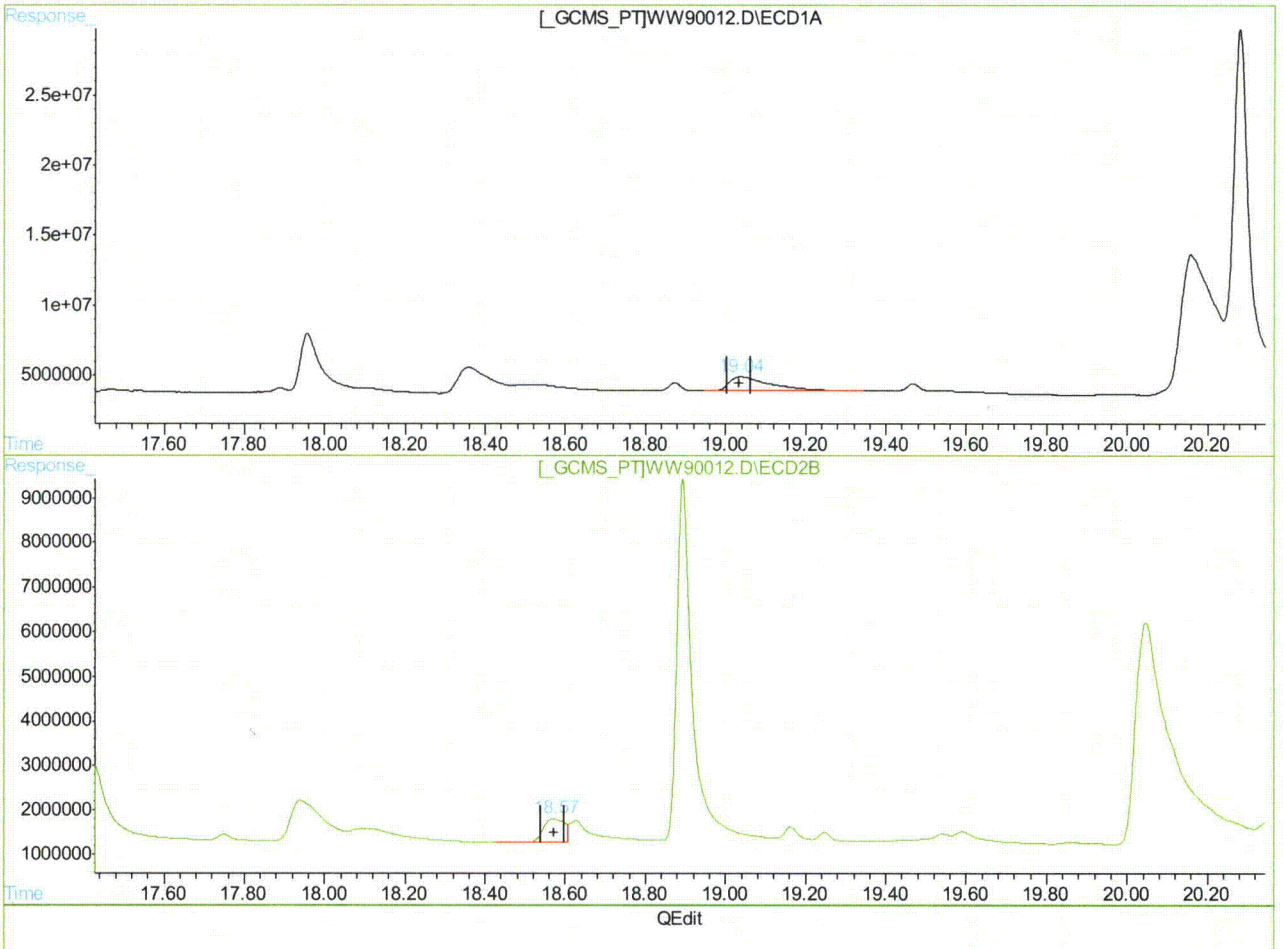
(+) = Expected Retention Time
WW90012.D HWW3143.M Tue May 04 09:07:05 2010 GCCD

10.6.77.1 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:06 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:01:45 2010
Response via : Multiple Level Calibration



(11) 2,4-DB

19.04min 46.789PPB

response 73165520

(11) 2,4-DB #2

18.57min 27.176PPB

response 19965488

(+) = Expected Retention Time
WW90012.D HWW3143.M Tue May 04 09:07:29 2010 GCCD

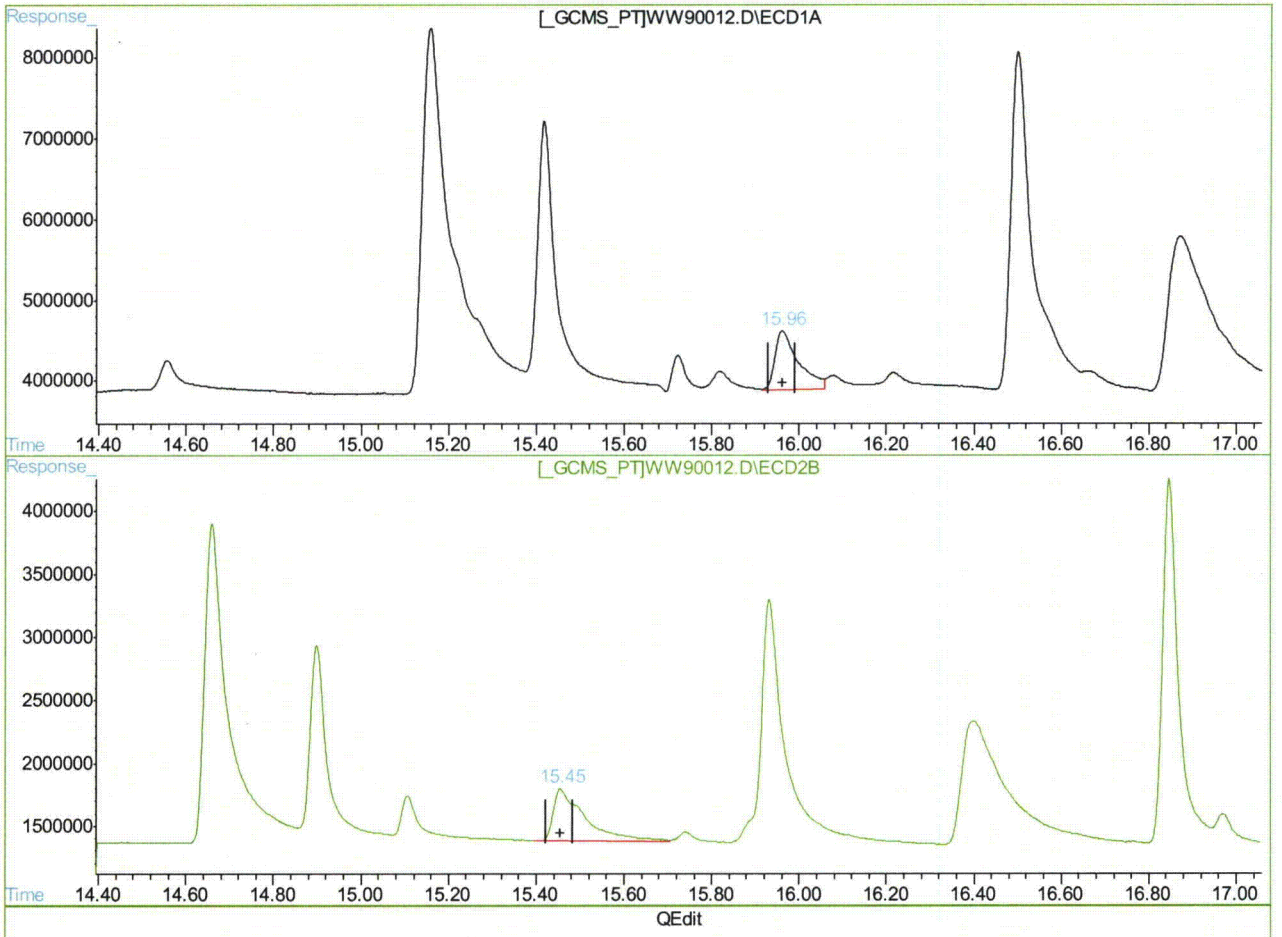
10.6.77.2 10

WW90012.D edits: 2,4-DB

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:07 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:11:22 2010
Response via : Multiple Level Calibration



(5) MCPA

15.96min 2884.169PPB

response 27435762

(5) MCPA #2

15.46min 4303.851PPB

response 21493679

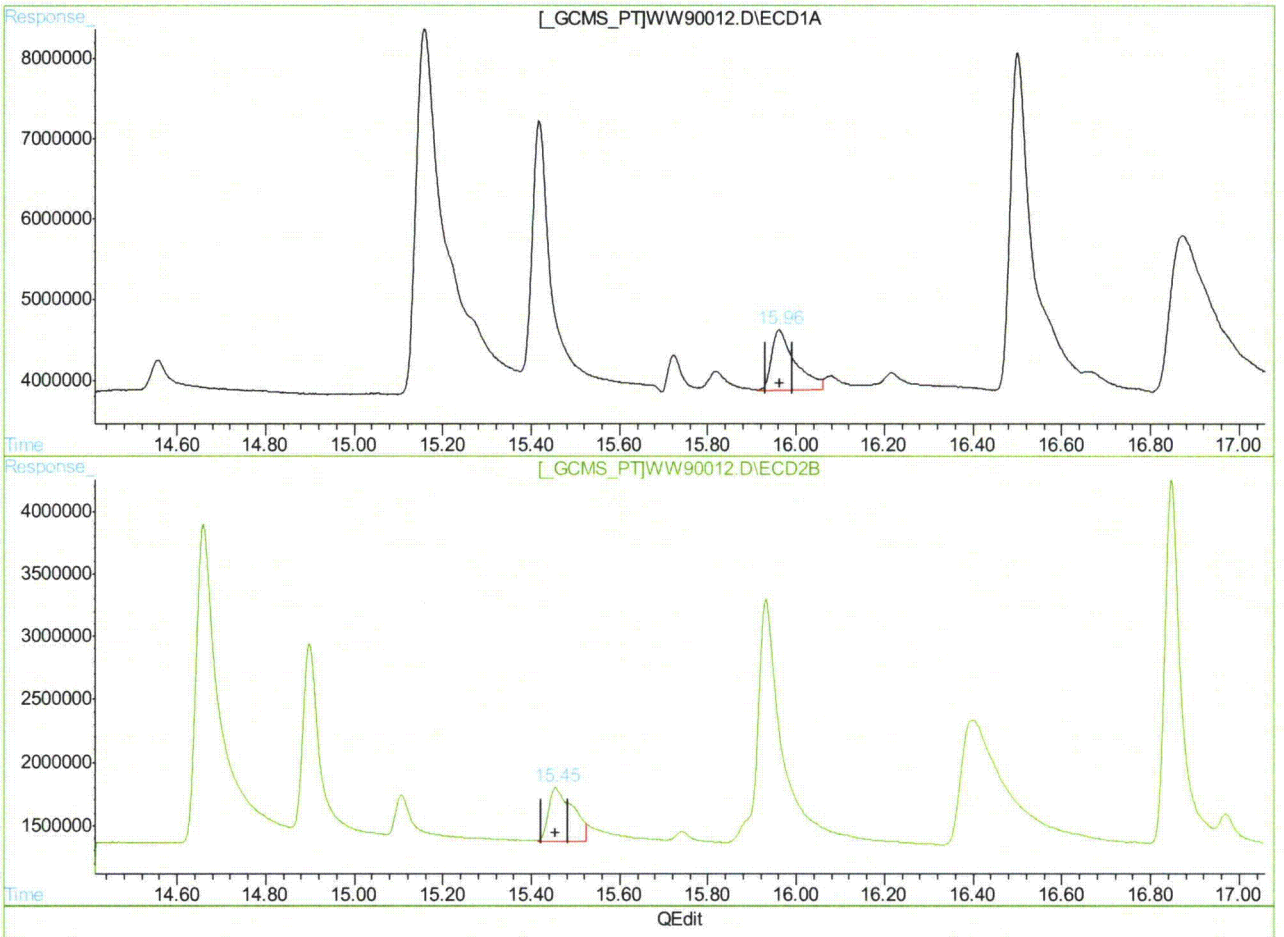
(+) = Expected Retention Time
WW90012.D HWW3143.M Tue May 04 09:11:41 2010 GCCD

10.6.77.3 10

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:18 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 10:51:55 2010
Response via : Multiple Level Calibration



(5) MCPA

15.96min 2884.169PPB

response 27435762

(5) MCPA #2

15.45min 3258.447PPB m

response 16272872

(+) = Expected Retention Time
WW90012.D HWW3143.M Tue May 04 11:12:43 2010 GCCD

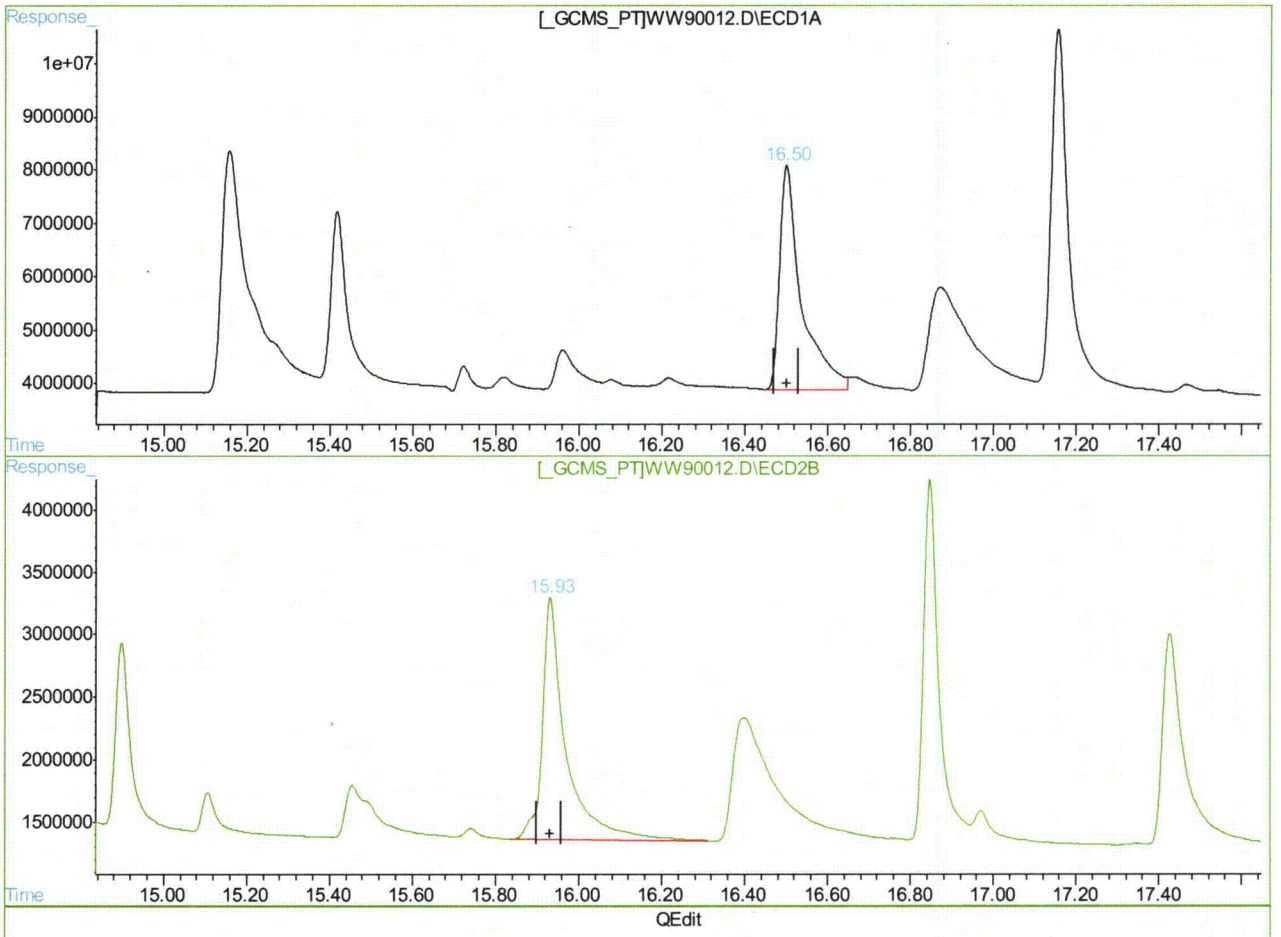
10.6.77.4 10

WW90012.D edits: MCPA

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:18 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 10:51:55 2010
Response via : Multiple Level Calibration



(6) Dichloroprop

16.50min 47.364PPB m

response 154693042

(6) Dichloroprop #2

15.93min 58.174PPB

response 75930904

(+) = Expected Retention Time
WW90012.D HWW3143.M Tue May 04 11:12:55 2010 GCCD

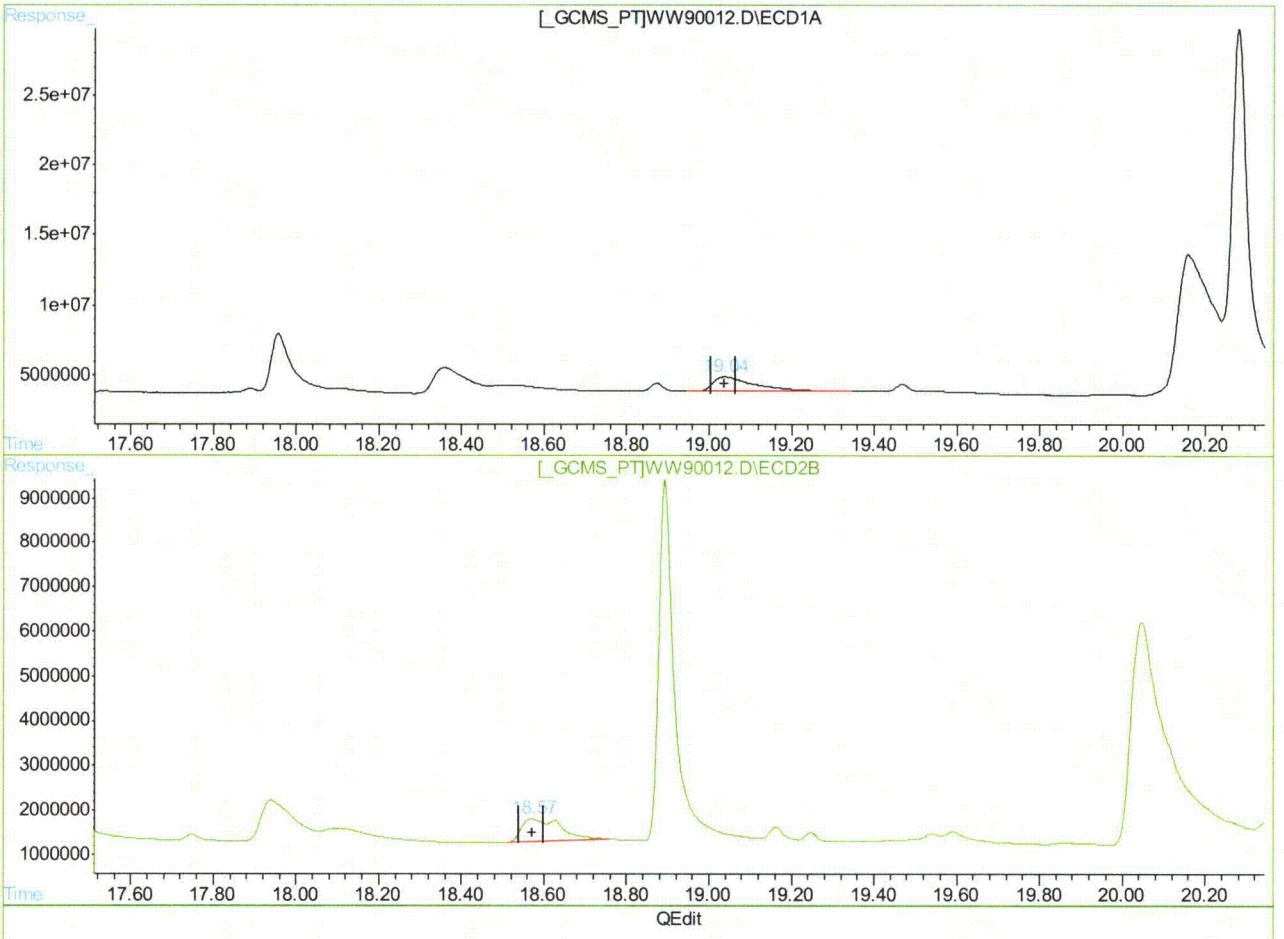
10.6.77.5 10

WW90012.D edits: Dichloroprop

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90012.D\ECD2B.CH
Acq On : 3 May 2010 6:03 pm Operator: toyar
Sample : ic3143-50 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:18 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 10:51:55 2010
Response via : Multiple Level Calibration



(11) 2,4-DB

19.04min 46.789PPB

response 73165520

(11) 2,4-DB #2

18.57min 46.781PPB m

response 34368669

(+) = Expected Retention Time
WW90012.D HWW3143.M Tue May 04 11:13:06 2010 GCCD

10.6.77.6 10

WW90012.D edits: 2,4-DB

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD2B.CH
Acq On : 3 May 2010 6:34 pm Operator: toyar
Sample : icv3143-300 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:28 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:27:47 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
2) S	2,4-DCAA	15.14f	14.64f	1263.4E6	538.9E6	574.552	573.338
	Spiked Amount 500.000			Recovery	=	114.91%	114.67%
	Target Compounds						
1)	Dalapon	6.12	5.20	207.1E6	96184844	59.706	58.880
3)	Dicamba	15.41	14.89	649.0E6	253.6E6	57.808	58.027
4)	MCPP	15.71	15.10	84430320	40467544	16427.928	13272.897
5)	MCPA	15.94f	15.44f	151.2E6	72740454	15496.642	15275.260
6)	Dichloroprop	16.49	15.92	741.4E6	320.0E6	229.004	238.701
7)	2,4-D	16.85f	16.37f	614.3E6	532.5E6	197.258	376.751 #
8)	Pentachlorophenol	17.15	16.84	1462.0E6	589.4E6	32.184	34.395
9)	2,4,5-TP	17.95	17.42	988.6E6	400.3E6	55.342	56.595
10)	2,4,5-T	18.34f	17.92f	951.2E6	397.0E6	62.267	66.205
11)	2,4-DB	19.01f	18.54f	510.6E6	194.5E6	330.060	267.644
12)	Dinoseb	20.28	18.89	5440.5E6	1534.1E6	318.309	311.132
13)	Picloram	20.13f	20.02f	4150.1E6	2152.7E6	252.404	260.904

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90013.D HWW3143.M Tue May 04 11:15:35 2010 GCCD

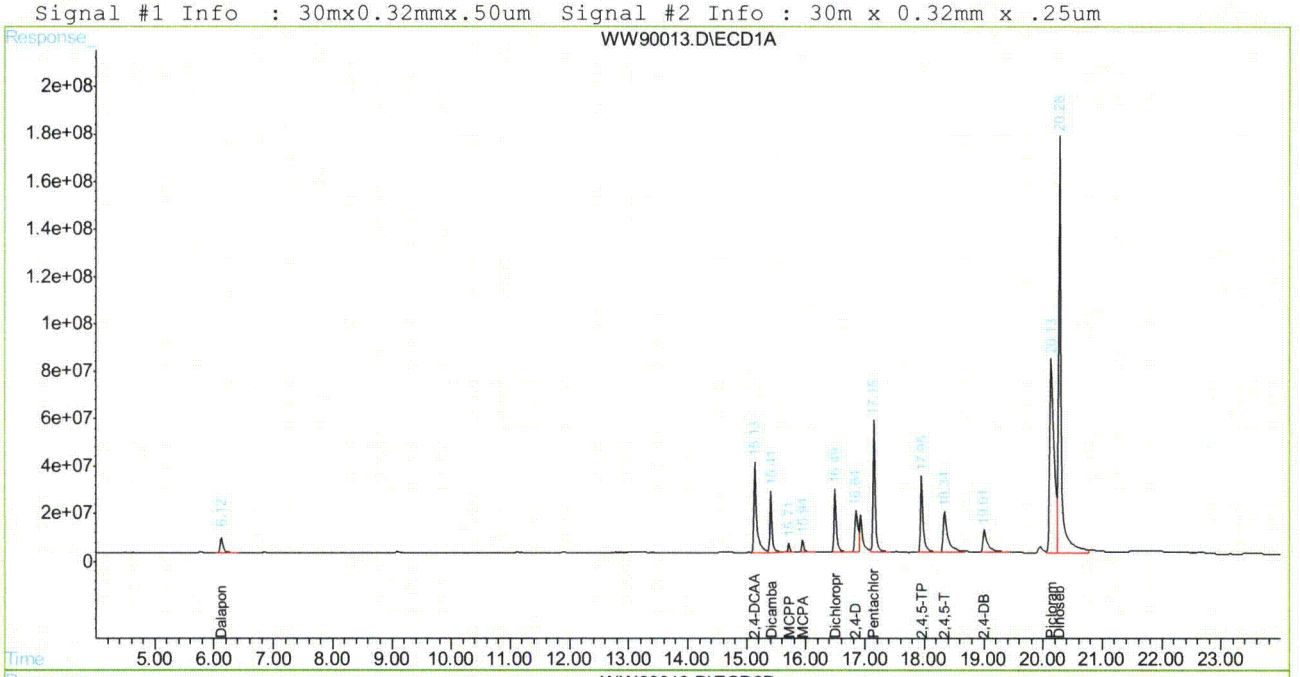
10.6.78 10

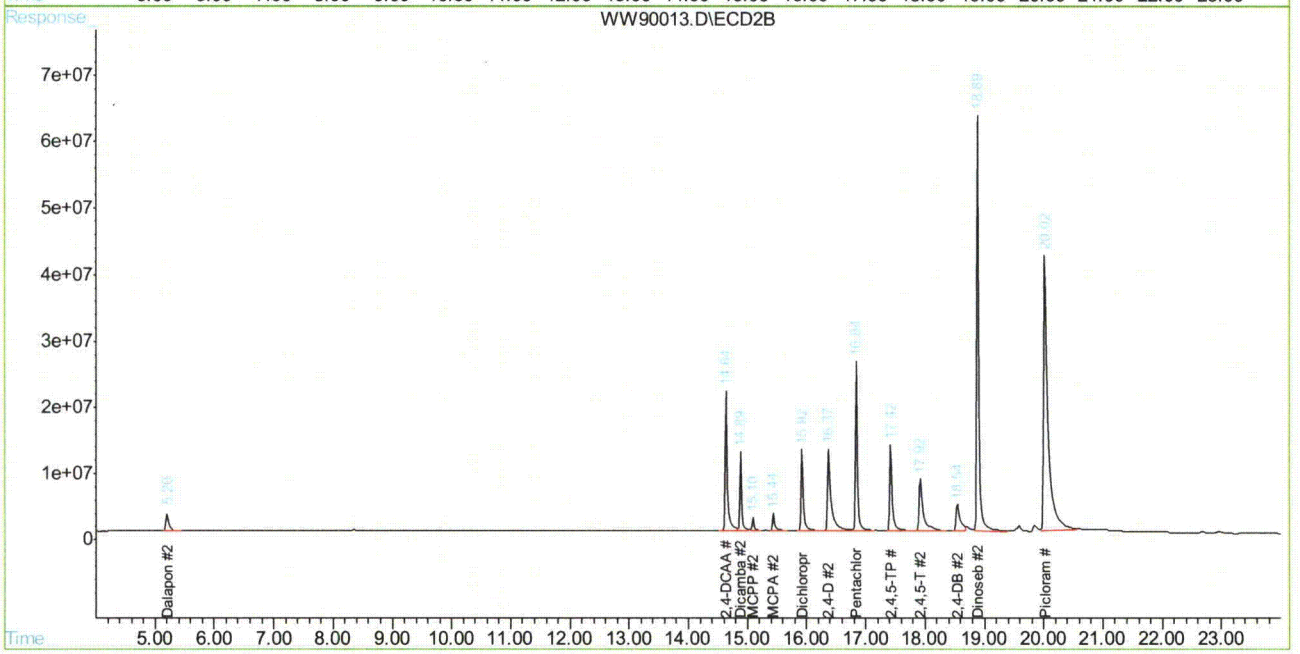
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD2B.CH
Acq On : 3 May 2010 6:34 pm Operator: toyar
Sample : icv3143-300 Inst : GCWW
Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:28 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:27:47 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

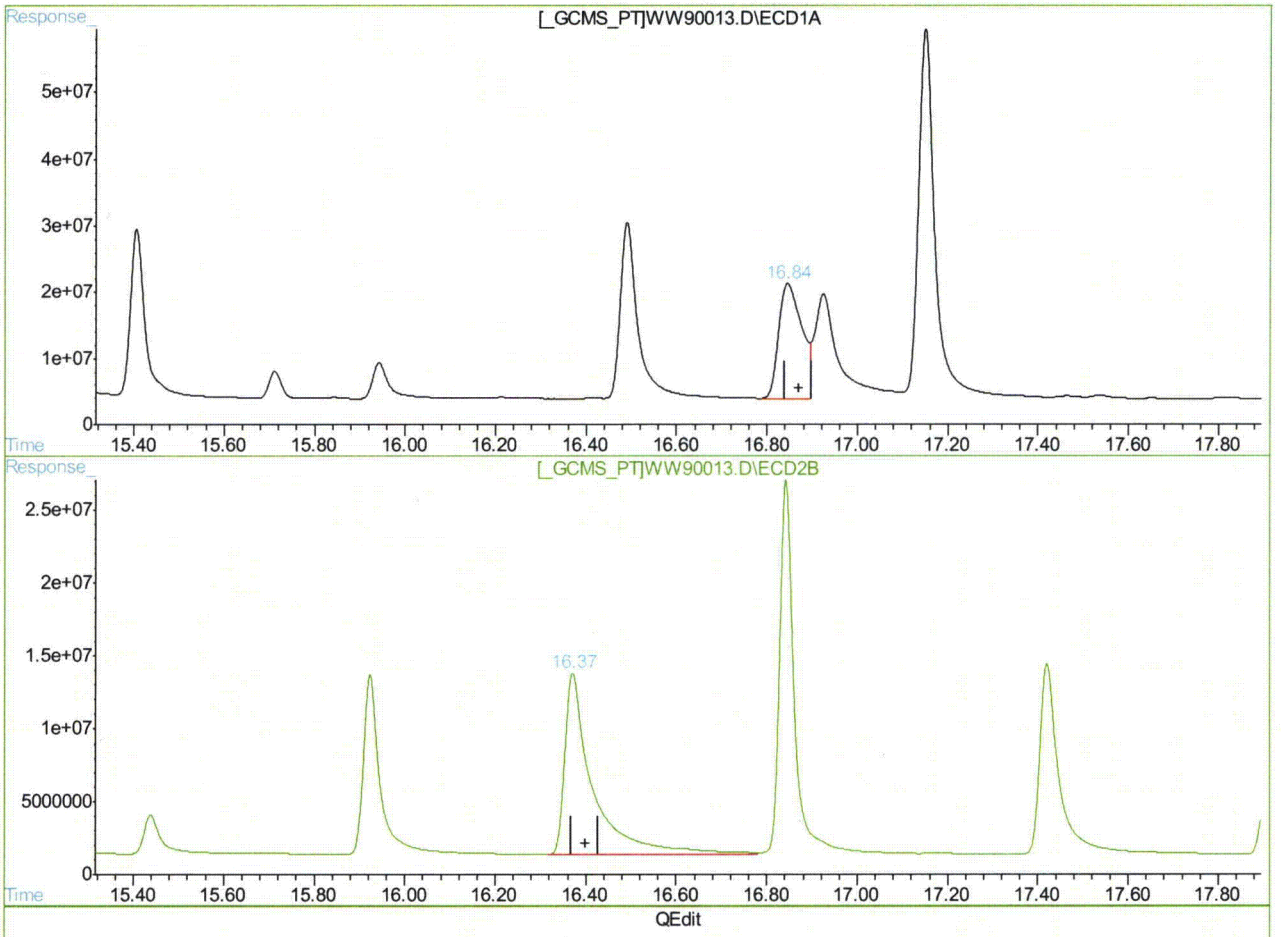




Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD2B.CH
Acq On : 3 May 2010 6:34 pm Operator: toyar
Sample : icv3143-300 Inst : GCWW
Misc : OP43177,Gww3140,35.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 9:07 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 09:07:45 2010
Response via : Multiple Level Calibration



(7) 2,4-D

16.85min 197.258PPB

response 614299406

(7) 2,4-D #2

16.37min 376.751PPB

response 532473451

(+) = Expected Retention Time
WW90013.D HWW3143.M Tue May 04 09:08:29 2010 GCCD

10.6.78.1

10

WW90013.D edits: 2,4-D

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3144\WW90026.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\GWW3144\WW90026.D\ECD2B.CH
Acq On : 4 May 2010 10:18 am Operator: toyar
Sample : ICV3143-300 Inst : GCWW
Misc : OP43346,Gww3144,37.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 17:35 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 14:10:43 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
	Target Compounds						
7)	2,4-D	16.88	16.40	922.5E6	427.7E6	296.233	302.621

10.6.79 10

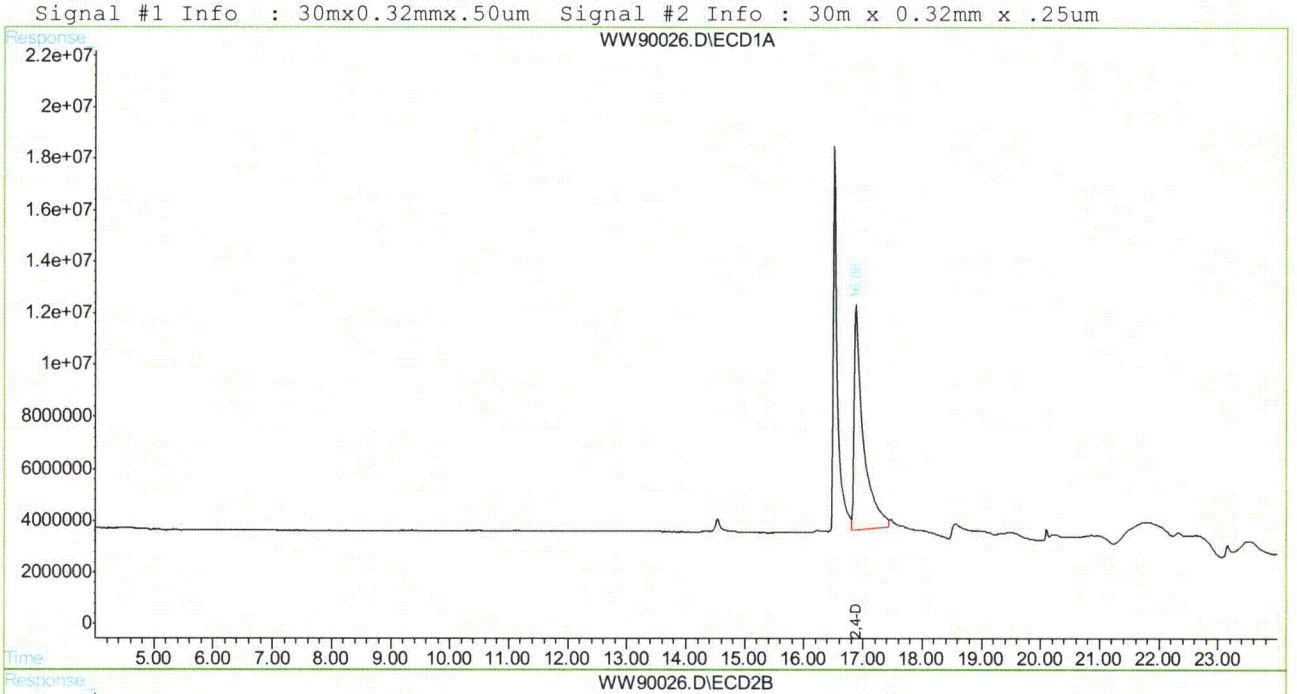
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90026.D HWW3143.M Tue May 04 17:35:54 2010 GCCD

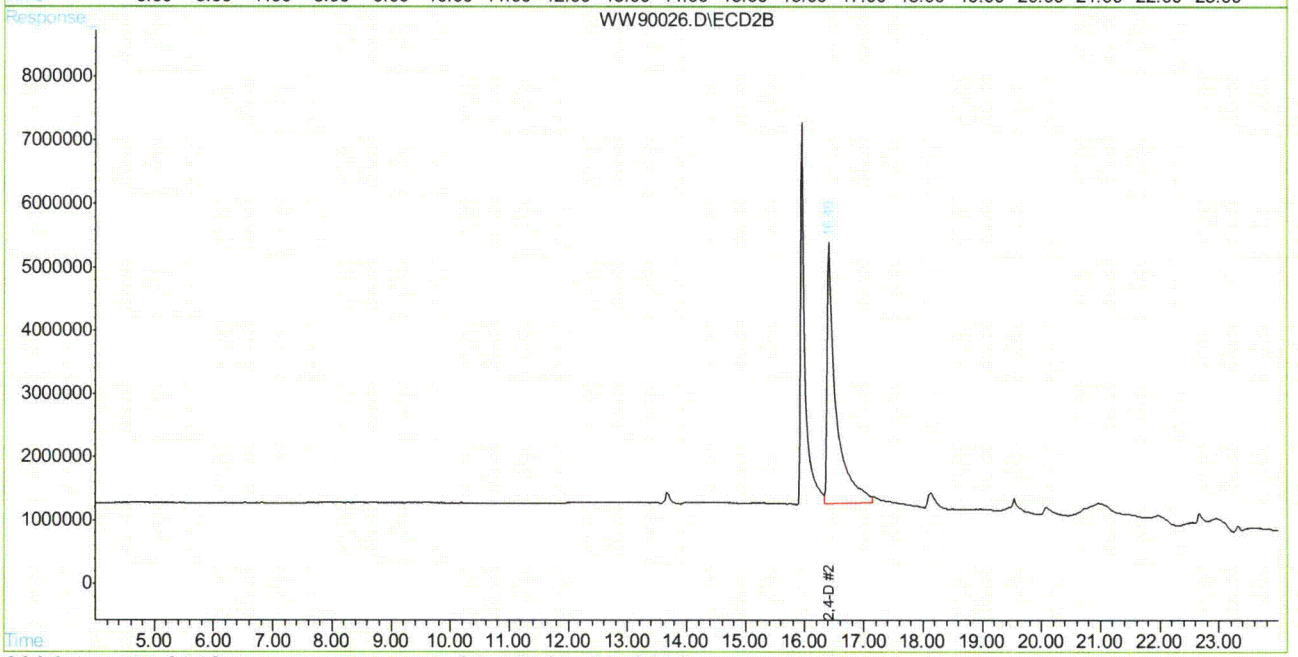
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3144\WW90026.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\GWW3144\WW90026.D\ECD2B.CH
Acq On : 4 May 2010 10:18 am Operator: toyar
Sample : ICV3143-300 Inst : GCWW
Misc : OP43346,Gww3144,37.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 17:35 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 14:10:43 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um





10.6.79
10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3144\WW90038.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\GWW3144\WW90038.D\ECD2B.CH
Acq On : 4 May 2010 5:50 pm Operator: toyar
Sample : icv3143-300 Inst : GCWW
Misc : OP43235,Gww3144,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 18:05 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 18:02:18 2010
Response via : Initial Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
	Target Compounds						
6)	Dichloroprop	16.53	15.97	842.0E6	349.6E6	260.088	260.714

10.6.80 10

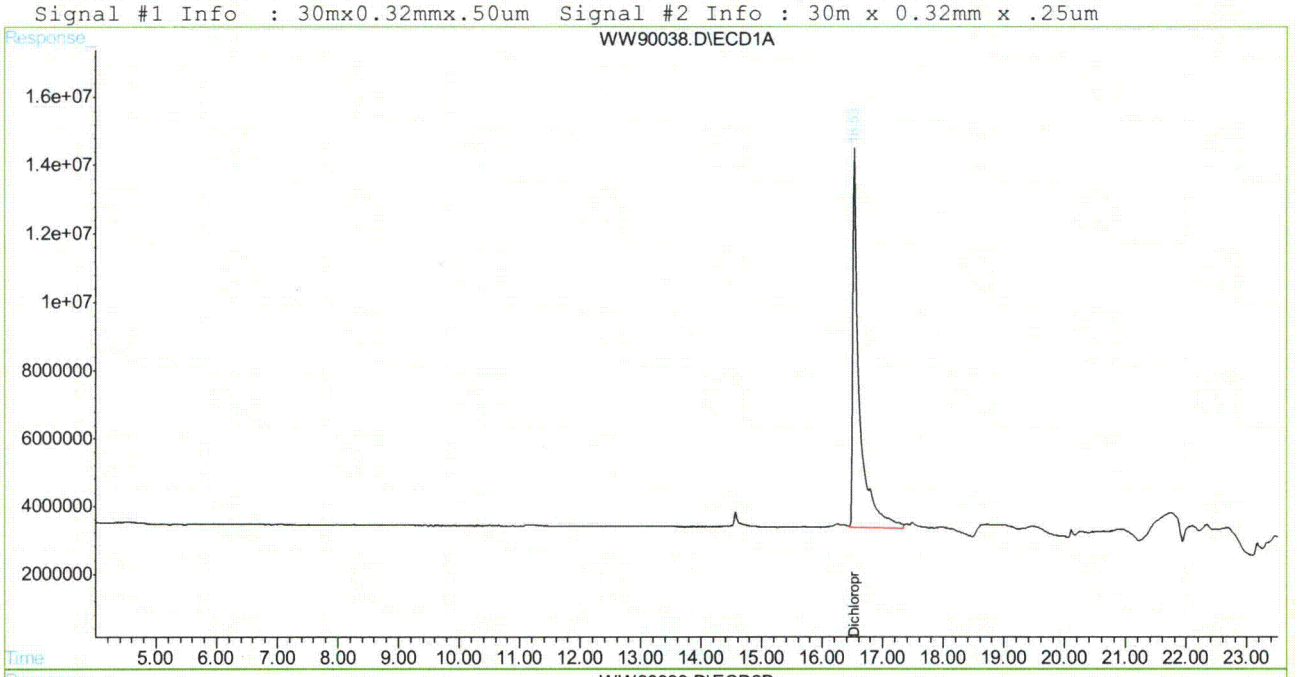
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90038.D HWW3143.M Tue May 04 18:05:42 2010 GCCD

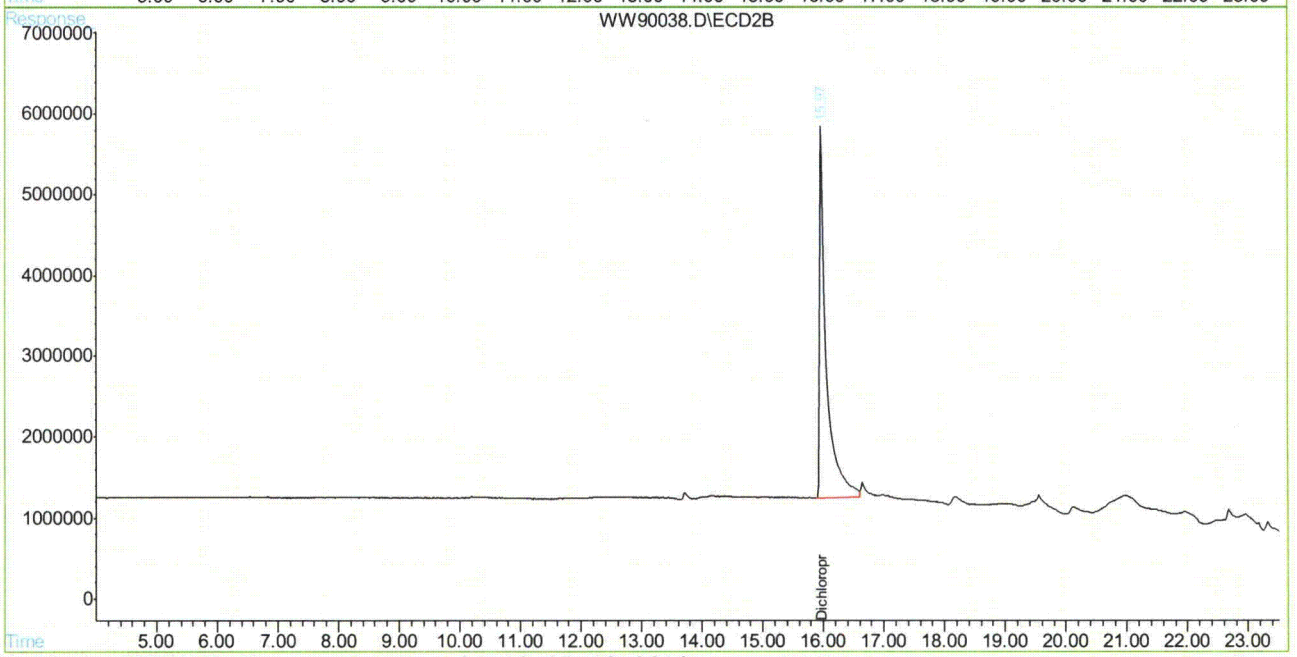
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3144\WW90038.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\GWW3144\WW90038.D\ECD2B.CH
Acq On : 4 May 2010 5:50 pm Operator: toyar
Sample : icv3143-300 Inst : GCWW
Misc : OP43235,Gww3144,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 4 18:05 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)
Title : HERB
Last Update : Tue May 04 18:02:18 2010
Response via : Multiple Level Calibration
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um





10.6.80 10

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 06/03/10 09:35

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90650.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90650.D\ECD2B.CH
Acq On : 27 May 2010 4:49 pm Operator: toyar
Sample : IC3173-0.02 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:45 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:42:37 2010
Response via : Initial Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	2-Bromo-1-Chloro	2.13	1.74	166007	56038	0.260	0.203
Spiked Amount	10.000			Recovery	=	2.60%	2.03%
	Target Compounds						
2)	1,2-Dibromoethan	2.33	2.10	110785	30990	0.027	0.018 #
3)	1,2,3-Trichlorop	4.00	3.70f	9109	4742	0.025m	0.027m
4)	1,2-Dibromo-3-Ch	5.86	5.78	130045	59429	0.020	0.022

10.6.81 10

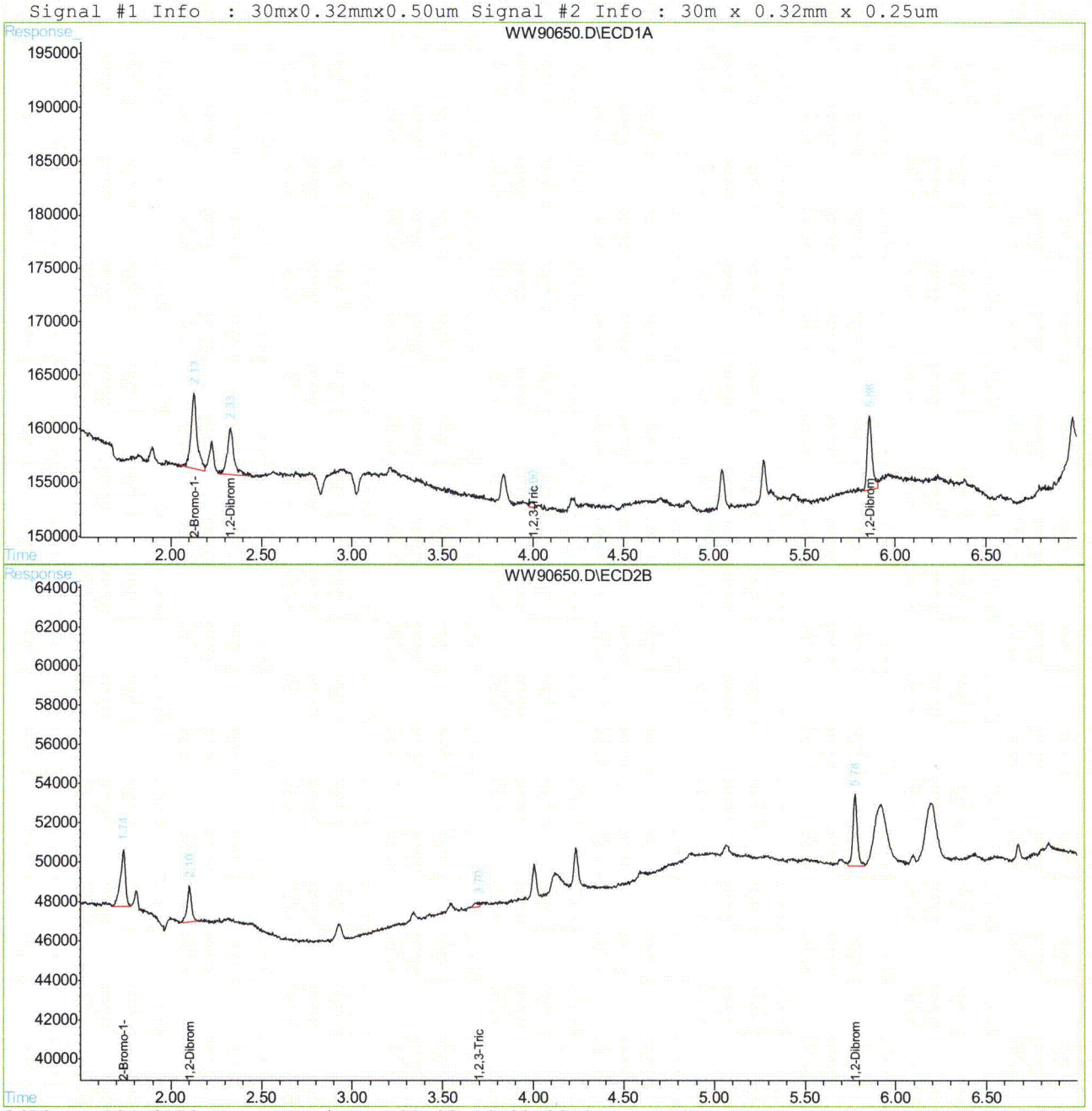
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90650.D 504M3173.M Fri May 28 08:45:59 2010 GCCD

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90650.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90650.D\ECD2B.CH
Acq On : 27 May 2010 4:49 pm Operator: toyar
Sample : IC3173-0.02 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:45 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:42:37 2010
Response via : Multiple Level Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um



Manual Integration Approval Summary

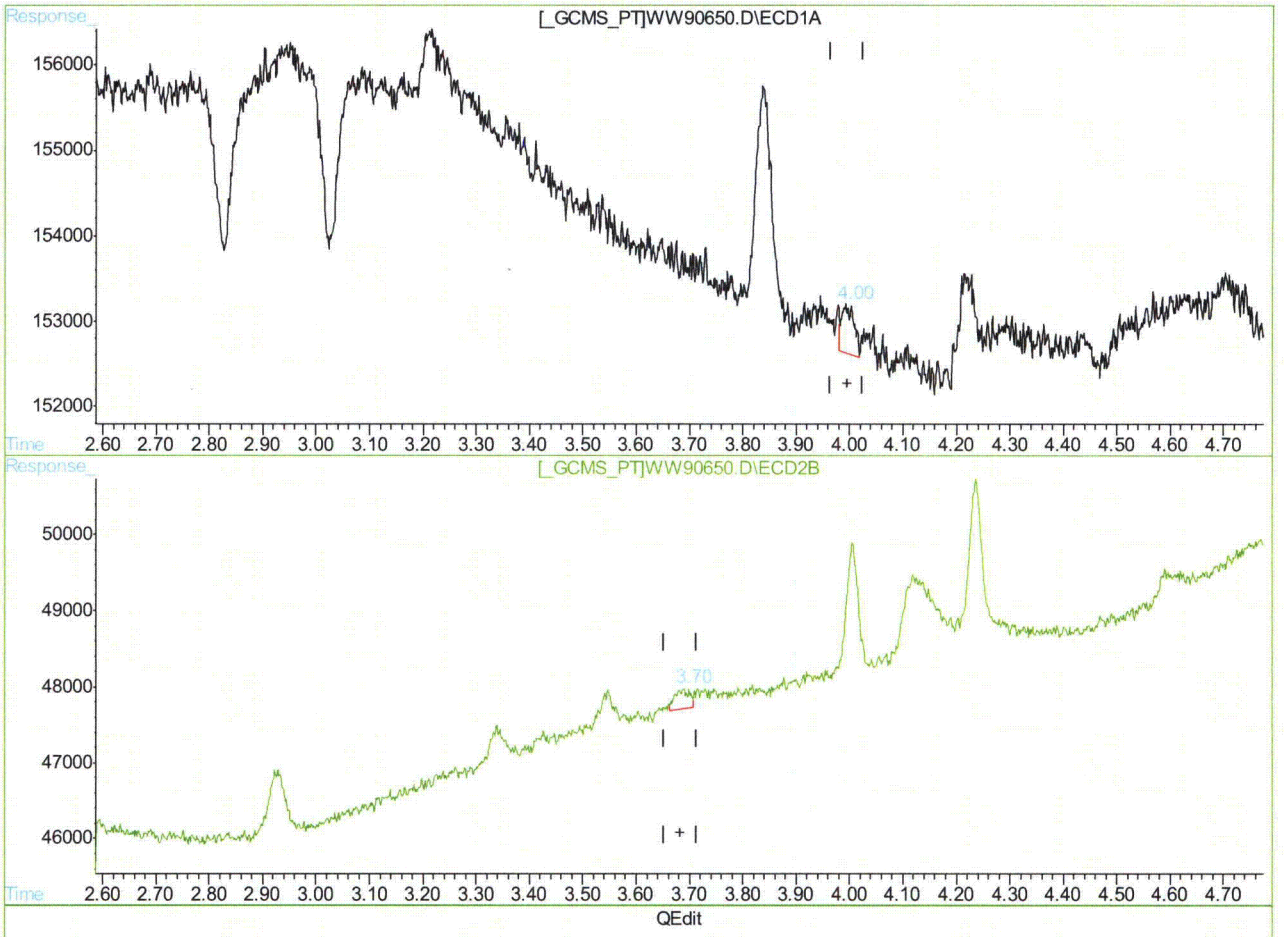
Sample Number: GWW3173-IC3173
Lab FileID: WW90650.D
Injection Time: 05/27/10 16:49
Method: SW846-8011
Analyst approved: 05/28/10 09:38 Toya Dagena Raffington
Supervisor approved: 06/03/10 09:35 Owen McKenna

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2,3-Trichloropropane	96-18-4	2	3.70	Poor instrument integration
1,2,3-Trichloropropane	96-18-4	1	4.00	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90650.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90650.D\ECD2B.CH
Acq On : 27 May 2010 4:49 pm Operator: toyar
Sample : IC3173-0.02 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:44 2010 Quant Results File: 504M3173.RES

Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:42:37 2010
Response via : Multiple Level Calibration



(3) 1,2,3-Trichloropropane

4.00min 0.025PPB m

response 9109

(3) 1,2,3-Trichloropropane #2

3.70min 0.027PPB m

response 4742

(+) = Expected Retention Time
WW90650.D 504M3173.M Fri May 28 08:45:44 2010 GCCD

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 06/03/10 09:35

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD2B.CH
Acq On : 27 May 2010 5:04 pm Operator: toyar
Sample : IC3173-0.1 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 9:36 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:45:54 2010
Response via : Initial Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	2-Bromo-1-Chloro	2.13	1.74	670075	296020	0.913m	1.064
Spiked Amount	10.000			Recovery	=	9.13%	10.64%
	Target Compounds						
2)	1,2-Dibromoethan	2.33	2.10	456040	187690	0.094	0.115
3)	1,2,3-Trichlorop	4.00	3.68	33058	21828	0.081	0.106m#
4)	1,2-Dibromo-3-Ch	5.86	5.78	673225	288070	0.104	0.102

10.6.82 10

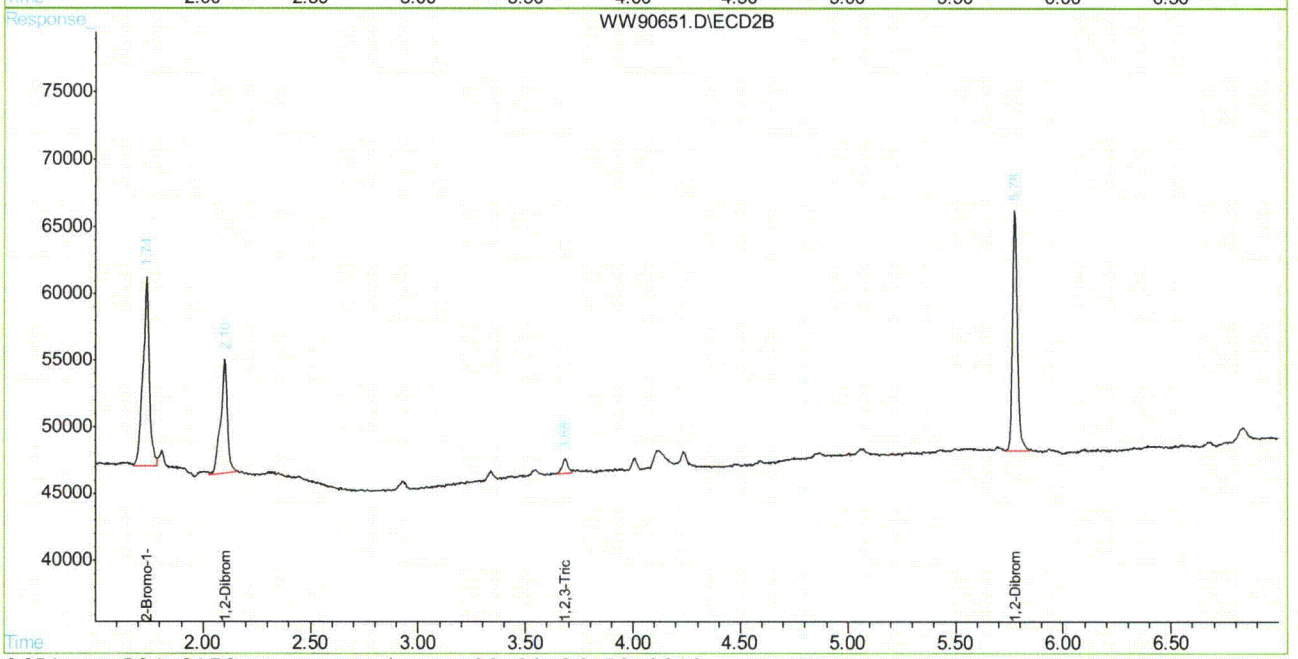
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90651.D 504M3173.M Fri May 28 09:36:50 2010 GCCD

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD2B.CH
Acq On : 27 May 2010 5:04 pm Operator: toyar
Sample : IC3173-0.1 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 9:36 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:45:54 2010
Response via : Multiple Level Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um



10.6.82 10

Manual Integration Approval Summary

Sample Number: GWW3173-IC3173
Lab FileID: WW90651.D
Injection Time: 05/27/10 17:04
Method: SW846-8011
Analyst approved: 05/28/10 09:38 Toya Dagena Raffington
Supervisor approved: 06/03/10 09:35 Owen McKenna

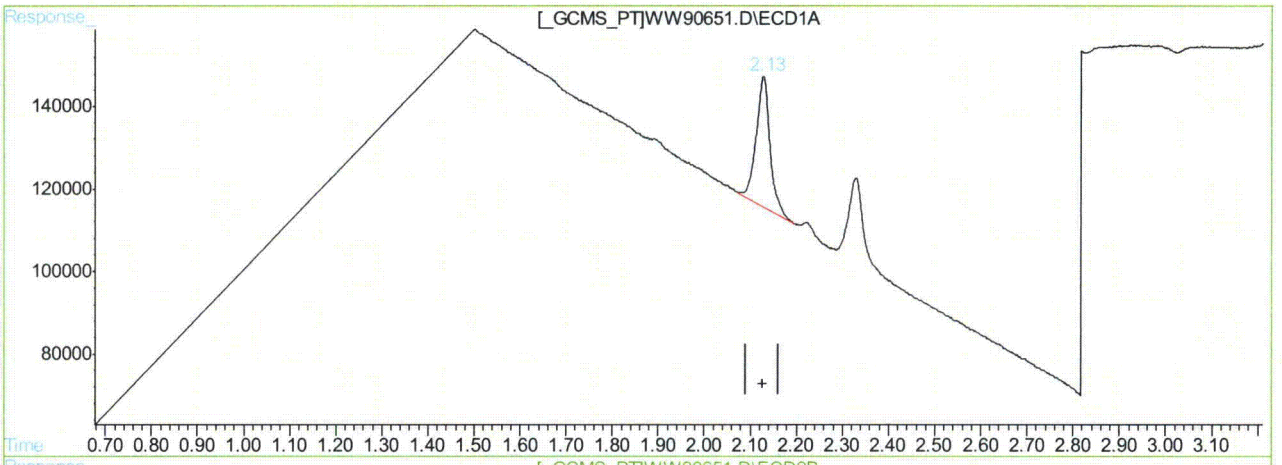
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Bromo-1-chloropropane	3017-95-6	1	2.13	Poorly defined baseline
1,2,3-Trichloropropane	96-18-4	2	3.68	Poor instrument integration

Cal Report: WW90651.D

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD2B.CH
Acq On : 27 May 2010 5:04 pm Operator: toyar
Sample : IC3173-0.1 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:47 2010 Quant Results File: 504M3173.RES

Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:45:54 2010
Response via : Multiple Level Calibration



(1) 2-Bromo-1-Chloropropane (S)

2.13min 0.913PPB m

response 670075

(1) 2-Bromo-1-Chloropropane #2 (S)

1.74min 1.064PPB

response 296020

(+) = Expected Retention Time
WW90651.D 504M3173.M Fri May 28 08:47:46 2010 GCCD

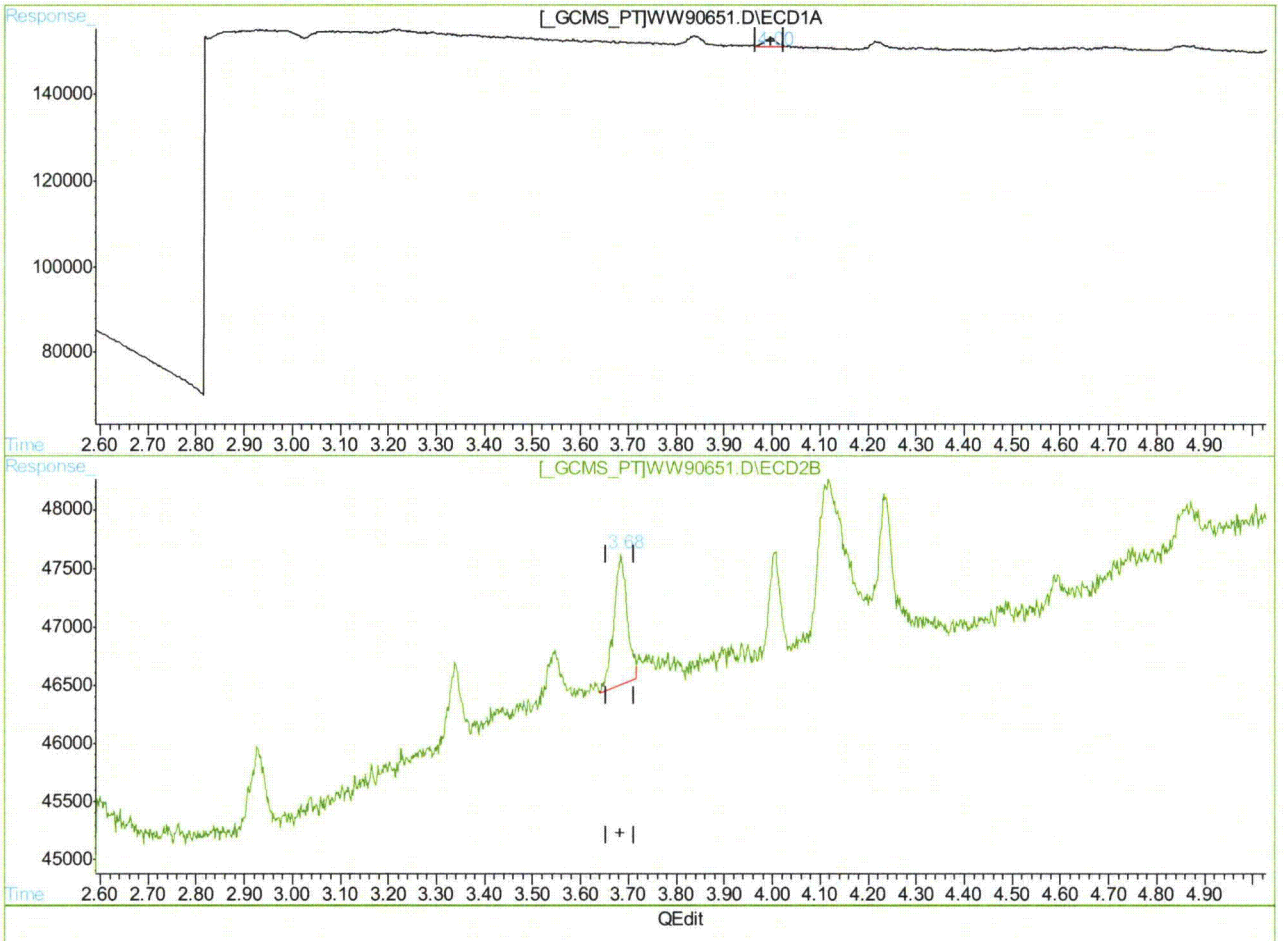
10.6.82.2 10

WW90651.D edits: 2-Bromo-1-Chloropropane

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90651.D\ECD2B.CH
Acq On : 27 May 2010 5:04 pm Operator: toyar
Sample : IC3173-0.1 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:47 2010 Quant Results File: 504M3173.RES

Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:55:10 2010
Response via : Multiple Level Calibration



(3) 1,2,3-Trichloropropane

4.00min 0.081PPB

response 33058

(3) 1,2,3-Trichloropropane #2

3.68min 0.106PPB m

response 21828

(+) = Expected Retention Time
WW90651.D 504M3173.M Fri May 28 09:36:42 2010 GCCD

10.6.82.3 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90652.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90652.D\ECD2B.CH
Acq On : 27 May 2010 5:19 pm Operator: toyar
Sample : IC3173-0.2 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:48 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:47:53 2010
Response via : Initial Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	2-Bromo-1-Chloro	2.13	1.74	1375595	587602	1.930	2.068
Spiked Amount	10.000			Recovery	=	19.30%	20.68%
	Target Compounds						
2)	1,2-Dibromoethan	2.33	2.10	892955	344302	0.188	0.201
3)	1,2,3-Trichlorop	4.00	3.68	69515	43288	0.182	0.204
4)	1,2-Dibromo-3-Ch	5.86	5.78	1297152	542961	0.198	0.190

10.6.83 10

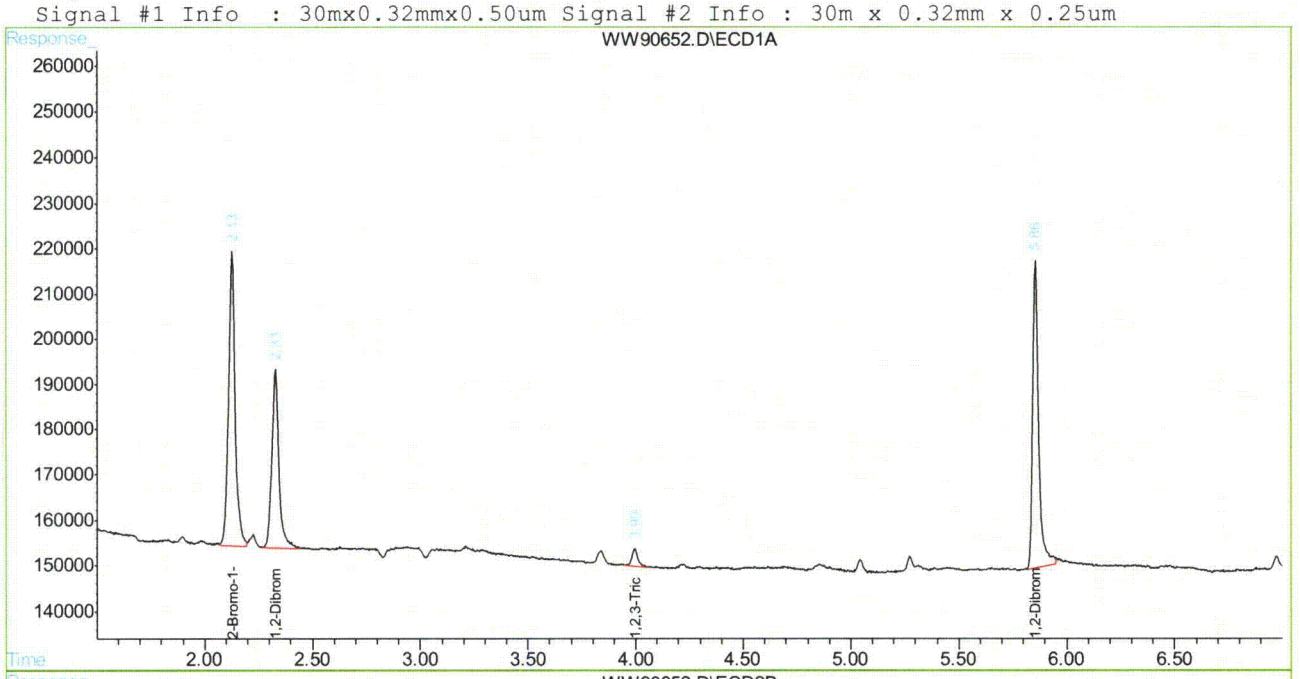
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90652.D 504M3173.M Fri May 28 08:48:50 2010 GCCD

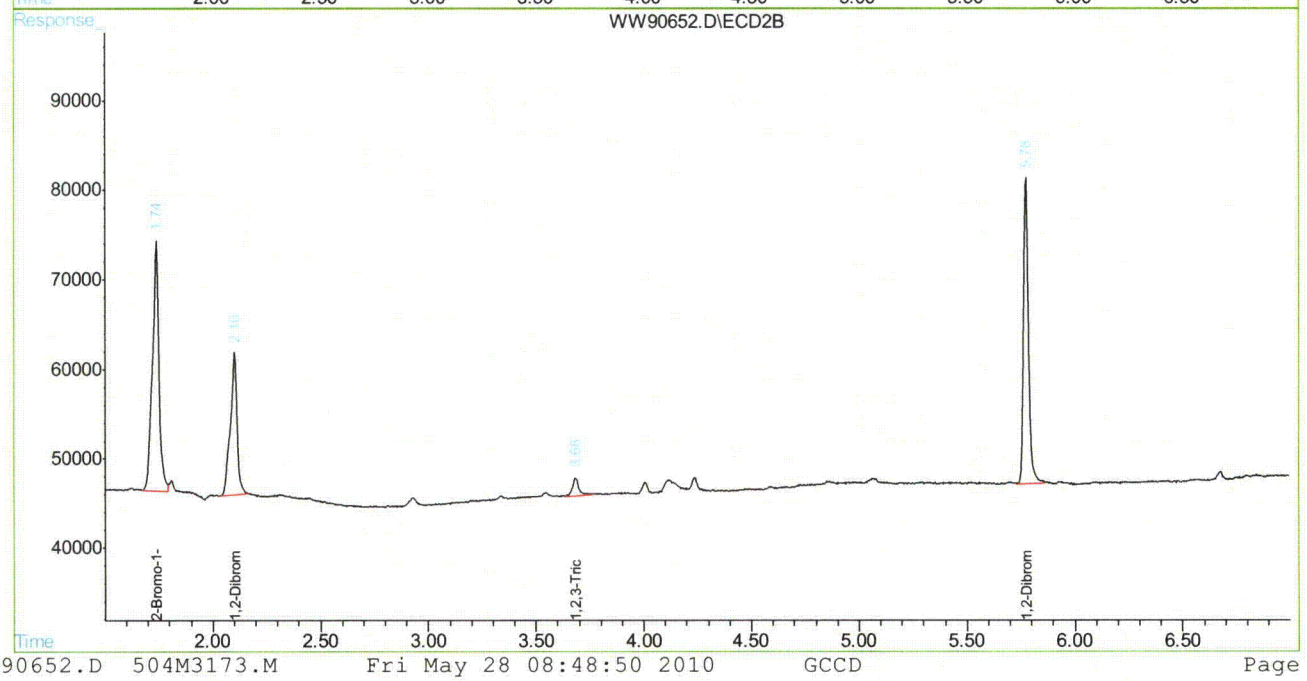
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90652.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90652.D\ECD2B.CH
Acq On : 27 May 2010 5:19 pm Operator: toyar
Sample : IC3173-0.2 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:48 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:47:53 2010
Response via : Multiple Level Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um





10.6.83 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90653.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90653.D\ECD2B.CH
Acq On : 27 May 2010 5:34 pm Operator: toyar
Sample : ICC3173-0.5 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:42 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:42:37 2010
Response via : Initial Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	2-Bromo-1-Chloro	2.13	1.74	3191551	1381633	5.000	5.000
Spiked Amount	10.000			Recovery	=	50.00%	50.00%
	Target Compounds						
2)	1,2-Dibromoethan	2.33	2.10	2083674	855046	0.500	0.500
3)	1,2,3-Trichlorop	4.00	3.68	178640	86439	0.500	0.500
4)	1,2-Dibromo-3-Ch	5.86	5.78	3229418	1350456	0.500	0.500

10.6.84 10

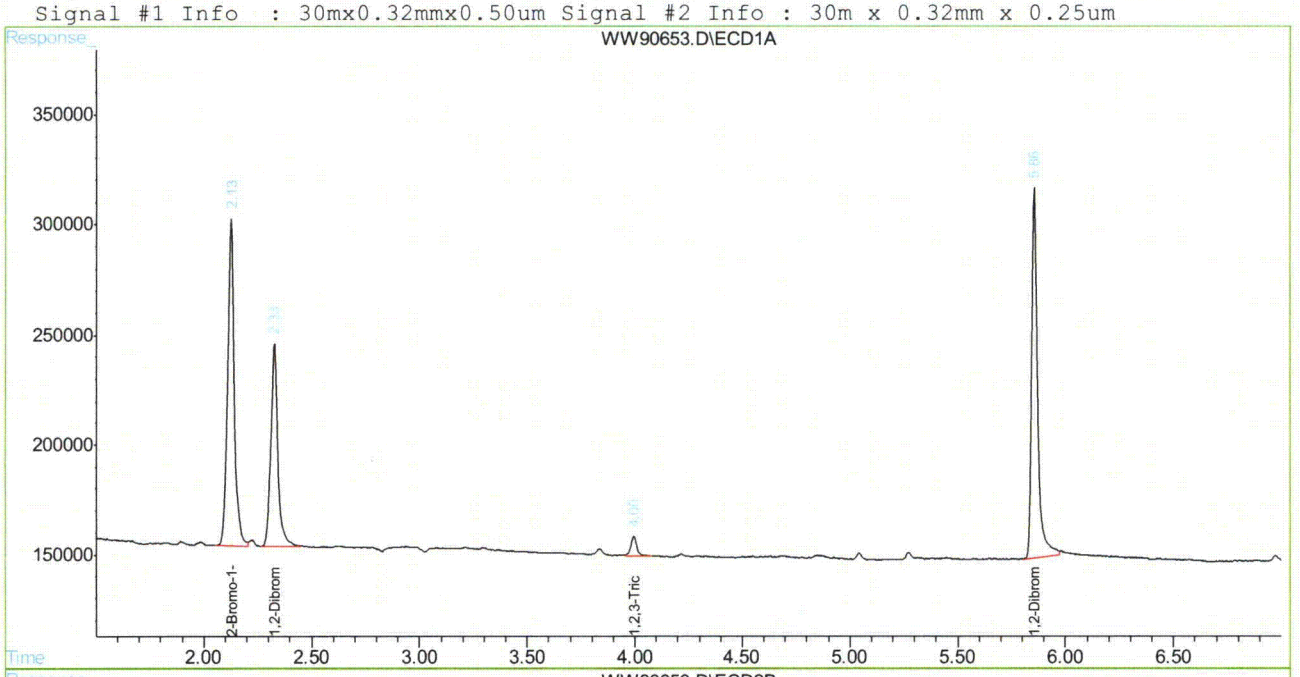
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90653.D 504M3173.M Fri May 28 09:38:53 2010 GCCD

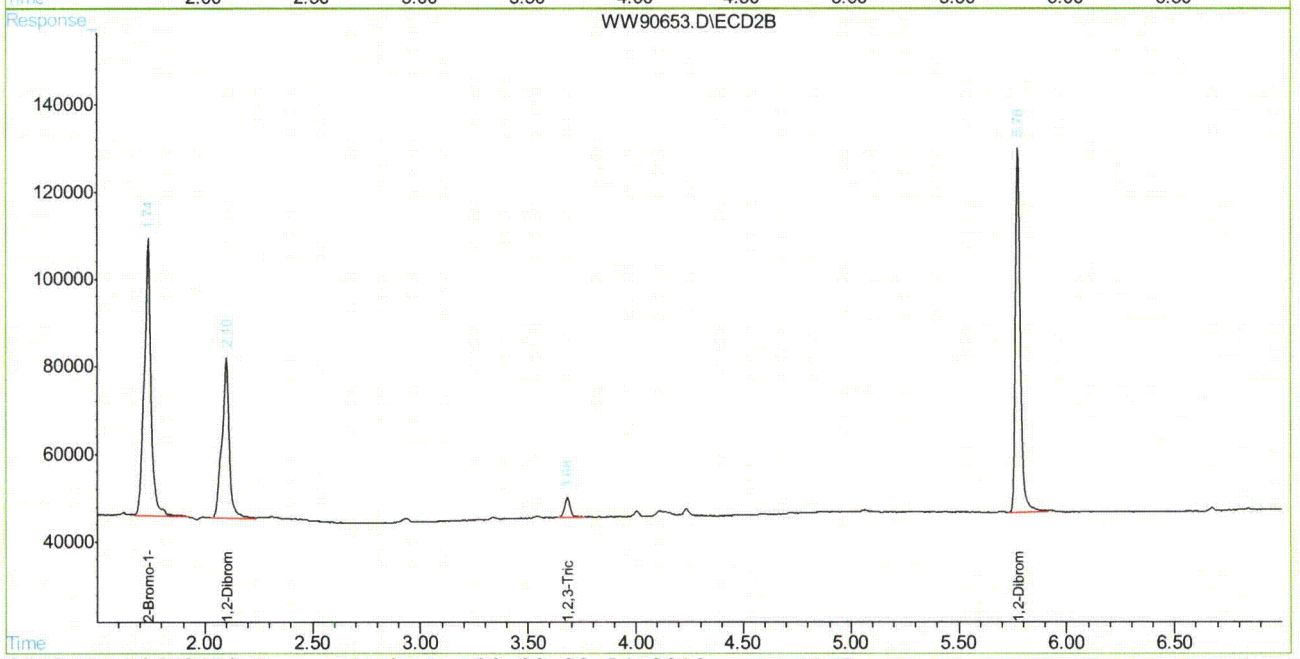
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90653.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90653.D\ECD2B.CH
Acq On : 27 May 2010 5:34 pm Operator: toyar
Sample : ICC3173-0.5 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:42 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:42:37 2010
Response via : Multiple Level Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um





10.6.84 10

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90654.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90654.D\ECD2B.CH
Acq On : 27 May 2010 5:48 pm Operator: toyar
Sample : IC3173-1.0 Inst : GCWW
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 28 8:50 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)
Title : GC/ECD- EDB
Last Update : Fri May 28 08:48:44 2010
Response via : Initial Calibration
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	2-Bromo-1-Chloro	2.13	1.74	6552009	2762625	9.273	9.640
Spiked Amount	10.000			Recovery	=	92.73%	96.40%
	Target Compounds						
2)	1,2-Dibromoethan	2.33	2.10	4163800	1665859	0.889	0.972
3)	1,2,3-Trichlorop	3.99	3.68	355750	173931	0.954	0.817
4)	1,2-Dibromo-3-Ch	5.86	5.78	6898698	2879091	1.054	1.022

10.6.85 10

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
WW90654.D 504M3173.M Fri May 28 08:50:51 2010 GCCD