ALS Group USA, Corp

Date: 28-Sep-16

Client: CT Laboratories
Work Order: 16091057
Project: TOCON - TPA-Pile 6 - 091916

QC BATCH REPORT

Batch ID: **91678** Instrument ID **HG1** Method: **SW7470A**

MBLK Sample ID: **MBLK-91678-91678** Units: mg/L Analysis Date: **9/20/2016 05:22 PM**
Client ID: Run ID: **HG1_160920A** SeqNo: **4036863** Prep Date: **9/20/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID: **LCS-91678-91678** Units: mg/L Analysis Date: **9/20/2016 05:26 PM**
Client ID: Run ID: **HG1_160920A** SeqNo: **4036864** Prep Date: **9/20/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002	0.00020	0.002	0	100	80-120		0		

MS Sample ID: **16091037-02AMS** Units: mg/L Analysis Date: **9/20/2016 05:31 PM**
Client ID: Run ID: **HG1_160920A** SeqNo: **4036866** Prep Date: **9/20/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0211	0.0020	0.02	-0.00028	107	75-125		0		

MSD Sample ID: **16091037-02AMSD** Units: mg/L Analysis Date: **9/20/2016 05:33 PM**
Client ID: Run ID: **HG1_160920A** SeqNo: **4036867** Prep Date: **9/20/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0211	0.0020	0.02	-0.00028	107	75-125	0.0211	0	20	

The following samples were analyzed in this batch: 16091057-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Section VI

SAMPLE DATA

-Instrument Data*

-Field Samples*

-Initial Calibration*

-Continuing Calibration*

-Instrument Tune*

-QC Samples*

-Sequence Logs*

-Preparation Logs*

(* = As applicable)

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GC/MS
Volatile Organics

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ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Data Path : H:\VMS6\6V160920\
Data File : 20SEP10.D
Acq On : 20 Sep 2016 2:32 pm
Operator : BJG
Sample : 16091057-01A DF10
Misc : IS\SS 200-19373
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 21 09:02:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	215158	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	332424	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.135	117	308745	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	143812	20.00 ug/L	# 0.00
116) Ethyl Acetate-d8	4.063	46	33101	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.934	111	87409	18.85 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 94.25%		
48) 1,2-Dichloroethane-d4	5.489	65	113562	20.06 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 100.30%		
65) Toluene-d8	8.420	98	399432	19.74 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 98.70%		
85) Bromofluorobenzene	11.451	95	140544	19.37 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 96.85%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D.	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethyl ether	0.000		0	N.D.	
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	0.000		0	N.D.	
13) Acetone	2.129	43	1402479	950.33 ug/L	100
14) Carbon disulfide	0.000		0	N.D.	
15) Allyl chloride	0.000		0	N.D.	
16) Methyl acetate	0.000		0	N.D.	
17) Acetonitrile	0.000		0	N.D.	
18) Methylene chloride	0.000		0	N.D.	
19) t-Butanol	0.000		0	N.D.	
20) trans-1,2-Dichloroethene	0.000		0	N.D.	
21) Acrylonitrile	0.000		0	N.D.	
22) Methyl tert-butyl ether	0.000		0	N.D.	
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	0.000		0	N.D.	
25) Diisopropyl ether	0.000		0	N.D.	
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	0.000		0	N.D.	
29) Ethyl tert butyl ether	0.000		0	N.D.	
30) 2,2-Dichloropropane	0.000		0	N.D.	
31) cis-1,2-Dichloroethene	0.000		0	N.D.	
32) 2-Butanone	4.116	43	471560	194.77 ug/L	94
33) Ethyl Acetate	0.000		0	N.D. d	
34) Methyl acrylate	0.000		0	N.D.	
35) Propionitrile	0.000		0	N.D.	

Data Path : H:\VMS6\6V160920\
Data File : 20SEP10.D
Acq On : 20 Sep 2016 2:32 pm
Operator : BJG
Sample : 16091057-01A DF10
Misc : IS\SS 200-19373
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 21 09:02:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	0.000		0	N.D.	
37) Tetrahydrofuran	0.000		0	N.D.	
38) Methacrylonitrile	0.000		0	N.D.	
39) Chloroform	0.000		0	N.D.	
40) Cyclohexane	0.000		0	N.D.	
41) Isobutyl Alcohol	0.000		0	N.D.	
43) 1,1,1-Trichloroethane	0.000		0	N.D.	
45) Carbon tetrachloride	0.000		0	N.D. d	
46) 1,1-Dichloropropene	0.000		0	N.D.	
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	0.000		0	N.D.	
50) Benzene	0.000		0	N.D.	
51) Tertiaryamylmethylether	0.000		0	N.D.	
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	0.000		0	N.D.	
54) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
56) Dibromomethane	0.000		0	N.D.	
57) Methyl methacrylate	0.000		0	N.D.	
58) 1,4-Dioxane	0.000		0	N.D.	
59) Bromodichloromethane	0.000		0	N.D.	
60) 2-Nitropropane	0.000		0	N.D.	
61) cis-1,3-Dichloropropene	0.000		0	N.D.	
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	8384	2.78 ug/L #	43
66) Toluene	8.504	91	1672571	62.00 ug/L	100
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	0.000		0	N.D.	
69) Ethyl methacrylate	0.000		0	N.D.	
70) 1,1,2-Trichloroethane	0.000		0	N.D.	
71) Tetrachloroethene	0.000		0	N.D.	
72) 1,3-Dichloropropane	0.000		0	N.D.	
73) 2-Hexanone	0.000		0	N.D.	
74) Chlorodibromomethane	0.000		0	N.D.	
75) Butyl acetate	0.000		0	N.D.	
76) 1,2-Dibromoethane	0.000		0	N.D.	
77) Chlorobenzene	0.000		0	N.D.	
78) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
79) Ethylbenzene	10.308	91	20162	0.60 ug/L	96
80) m/p-Xylene	10.454	91	7693	0.25 ug/L #	27
81) Styrene	0.000		0	N.D.	
82) o-Xylene	0.000		0	N.D.	
83) Bromoform	0.000		0	N.D.	
84) Isopropylbenzene	0.000		0	N.D.	
86) Bromobenzene	0.000		0	N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
88) 1,2,3-Trichloropropane	0.000		0	N.D.	
89) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
90) n-Propylbenzene	0.000		0	N.D.	
91) 2-Chlorotoluene	0.000		0	N.D.	
92) 4-Chlorotoluene	0.000		0	N.D.	
93) 1,3,5-Trimethylbenzene	0.000		0	N.D.	

Data Path : H:\VMS6\6V160920\
Data File : 20SEP10.D
Acq On : 20 Sep 2016 2:32 pm
Operator : BJG
Sample : 16091057-01A DF10
Misc : IS\SS 200-19373
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 21 09:02:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

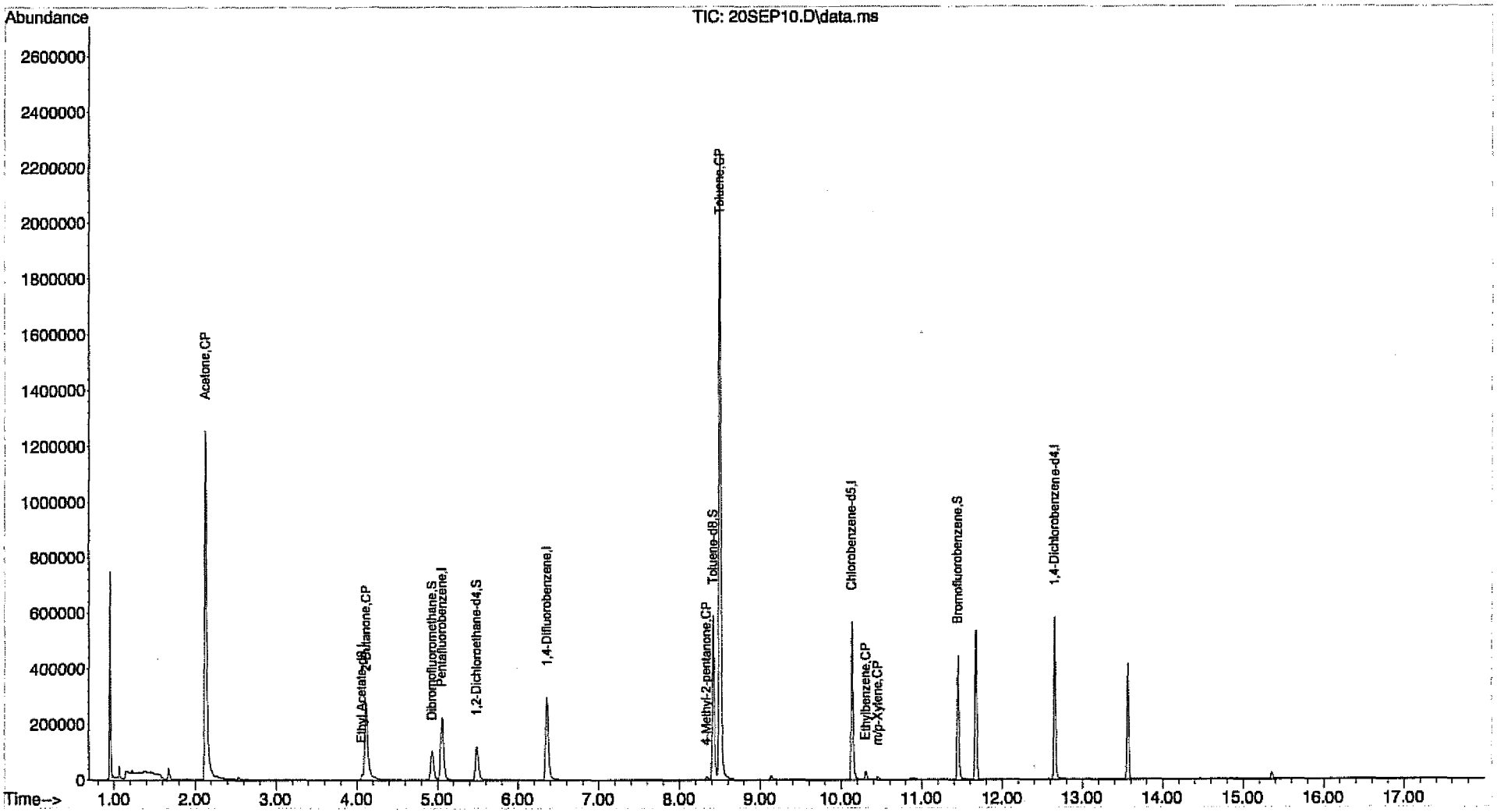
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	0.000		0	N.D.	
95)	tert-Butylbenzene	0.000		0	N.D.	
96)	Pentachloroethane	0.000		0	N.D.	
97)	1,2,4-Trimethylbenzene	0.000		0	N.D.	
98)	sec-Butylbenzene	0.000		0	N.D.	
100)	1,3-Dichlorobenzene	0.000		0	N.D.	
101)	p-Isopropyltoluene	0.000		0	N.D.	
102)	1,4-Dichlorobenzene	0.000		0	N.D.	
103)	1,2,3-Trimethylbenzene	0.000		0	N.D.	
104)	Benzyl chloride	0.000		0	N.D.	
105)	1,2-Dichlorobenzene	0.000		0	N.D.	
106)	n-Butylbenzene	0.000		0	N.D.	
107)	Hexachloroethane	0.000		0	N.D.	
108)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
109)	1,3,5-Trichlorobenzene	0.000		0	N.D.	
110)	1,2,4-Trichlorobenzene	0.000		0	N.D.	
111)	Hexachlorobutadiene	0.000		0	N.D.	
112)	Naphthalene	0.000		0	N.D.	
113)	1,2,3-Trichlorobenzene	0.000		0	N.D.	
114)	2-Methylnaphthalene	0.000		0	N.D.	
115)	1-Methylnaphthalene	0.000		0	N.D.	
117)	2-Propanone	2.129	43	1399580	Below Cal	100
118)	Acetic Ether	0.000		0	N.D. d	
119)	Isopropyl Acetate	0.000		0	N.D.	
120)	Amyl Acetate	0.000		0	N.D.	

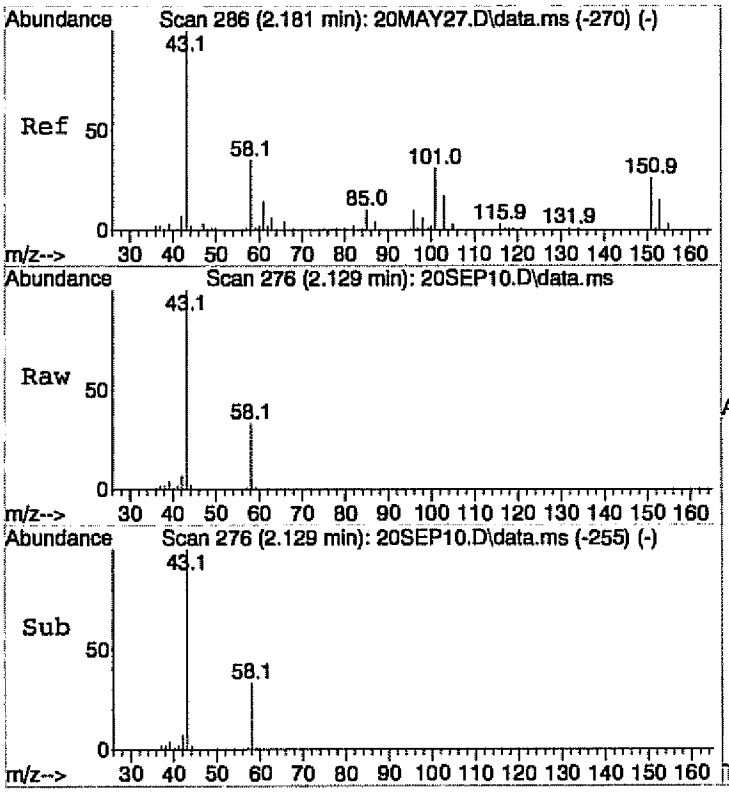
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP10.D
Acq On : 20 Sep 2016 2:32 pm
Operator : BJG
Sample : 16091057-01A DF10
Misc : IS\SS 200-19373
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 21 09:02:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

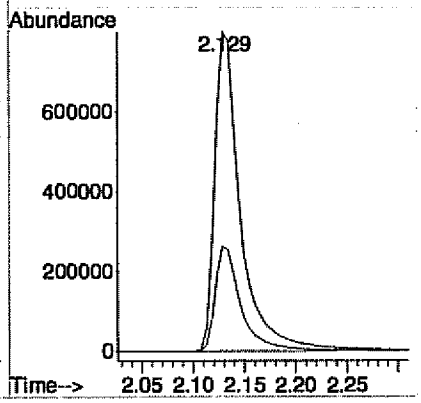


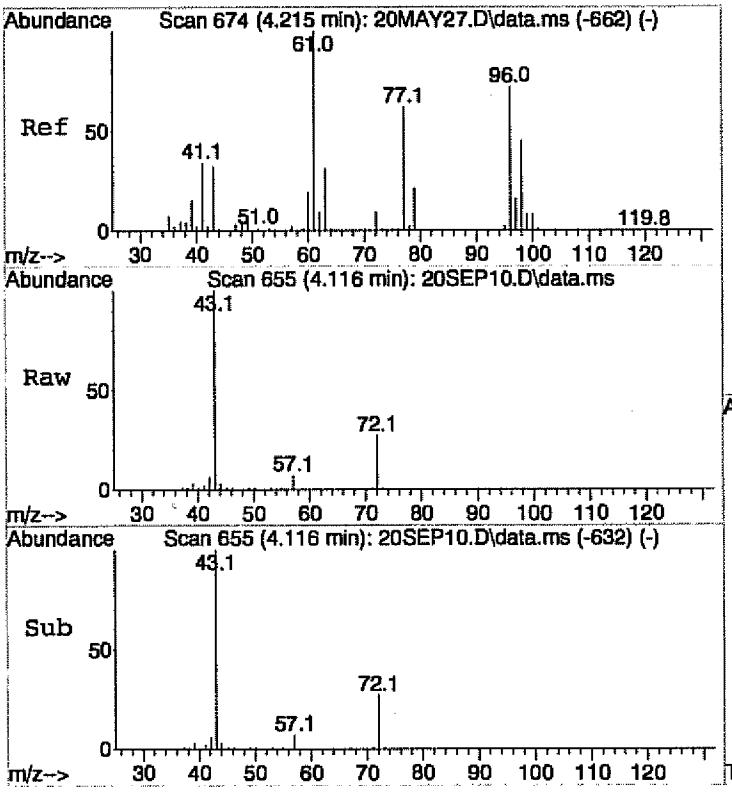


#13
Acetone
Concen: 950.33 ug/L
RT: 2.129 min Scan# 276
Delta R.T. -0.011 min
Lab File: 20SEP10.D
Acq: 20 Sep 2016 2:32 pm

Tgt Ion: 43 Resp: 1402479

Ion	Ratio	Lower	Upper
43	100		
58	32.8	3.0	63.0

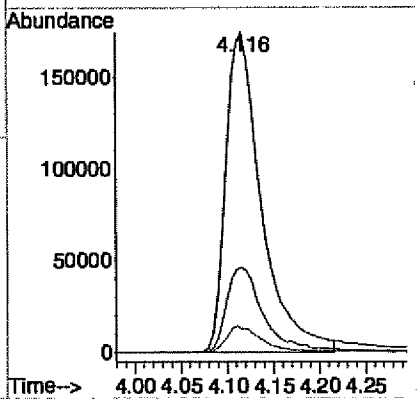


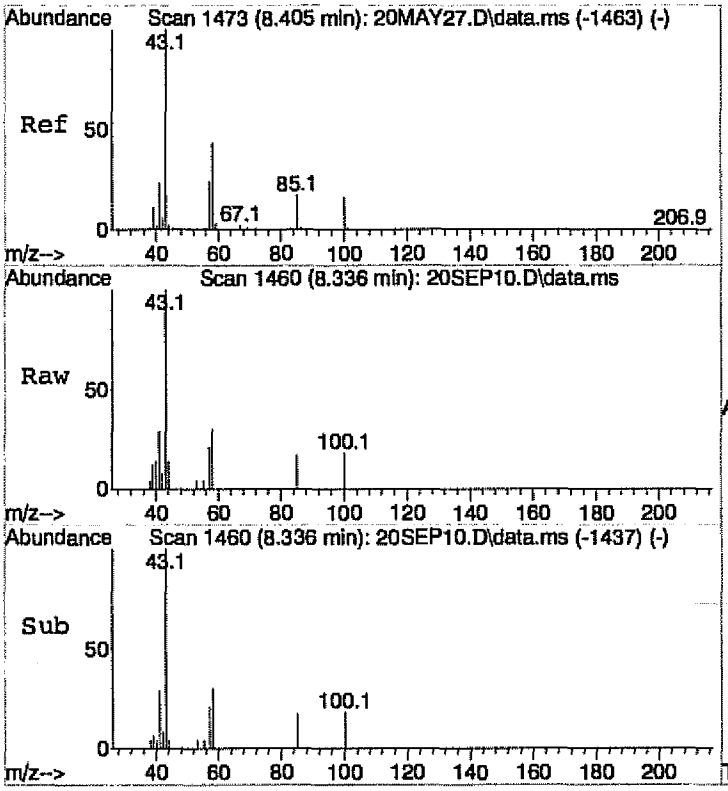


#32
2-Butanone
Concen: 194.77 ug/L
RT: 4.116 min Scan# 655
Delta R.T. -0.000 min
Lab File: 20SEP10.D
Acq: 20 Sep 2016 2:32 pm

Tgt Ion: 43 Resp: 471560

Ion	Ratio	Lower	Upper
43	100		
72	27.2	0.8	60.8
57	8.1	0.0	38.8

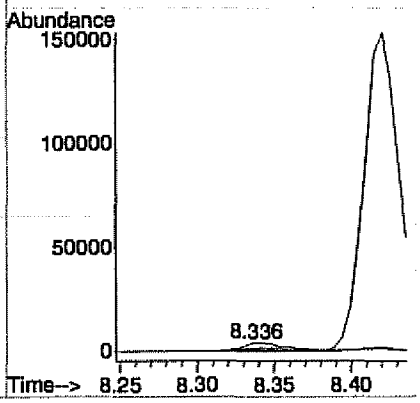


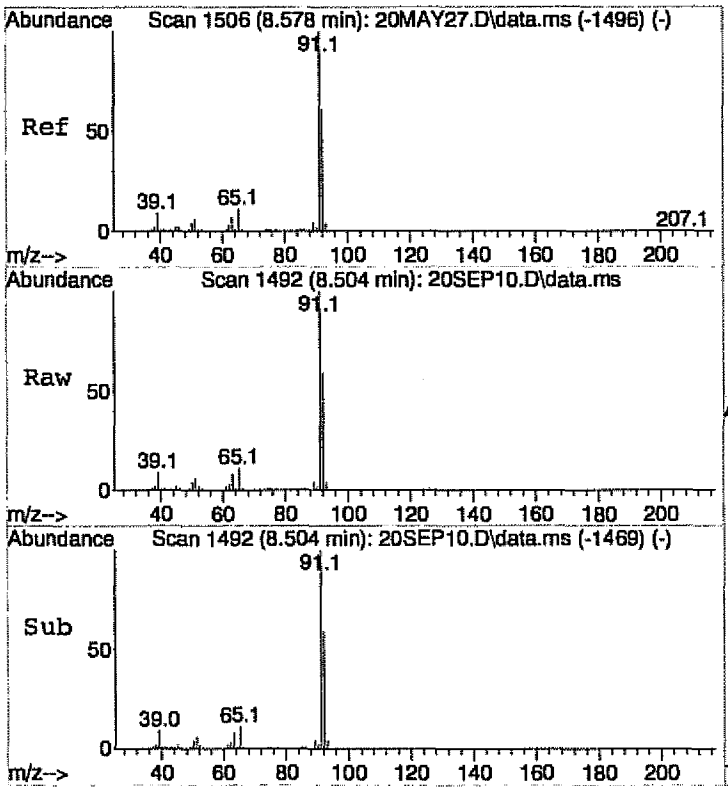


#64
4-Methyl-2-pentanone
Concen: 2.78 ug/L
RT: 8.336 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 20SEP10.D
Acq: 20 Sep 2016 2:32 pm

Tgt Ion: 43 Resp: 8384

Ion	Ratio	Lower	Upper
43	100		
58	0.0	9.3	69.3#
100	0.0	0.0	46.5

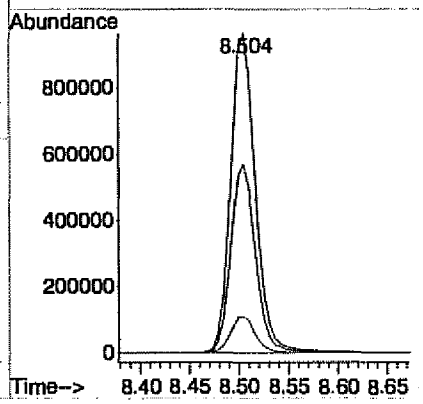


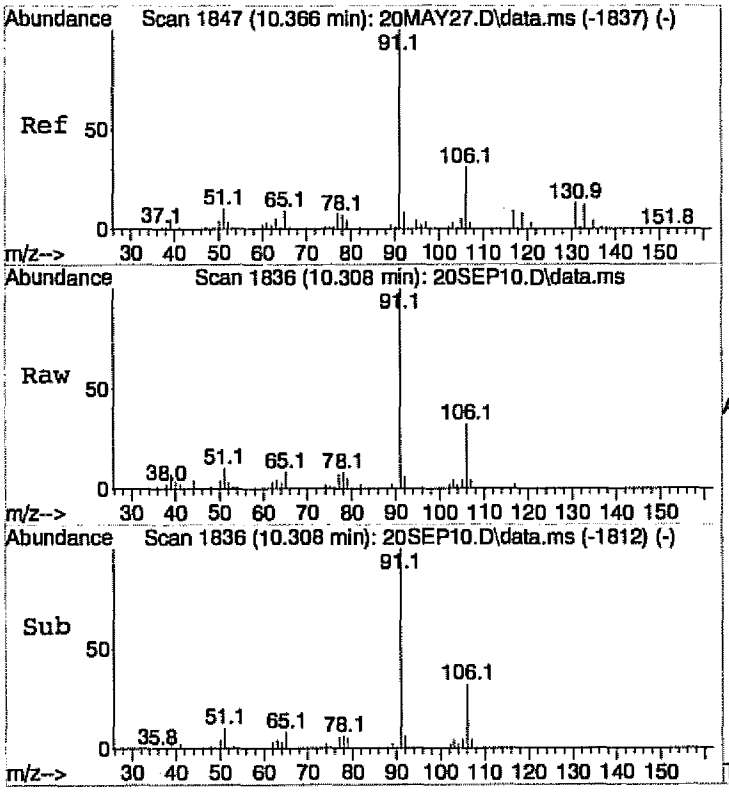


#66
Toluene
Concen: 62.00 ug/L
RT: 8.504 min Scan# 1492
Delta R.T. -0.000 min
Lab File: 20SEP10.D
Acq: 20 Sep 2016 2:32 pm

Tgt Ion: 91 Resp: 1672571

Ion	Ratio	Lower	Upper
91	100		
92	59.2	29.5	89.5
65	11.3	0.0	41.2

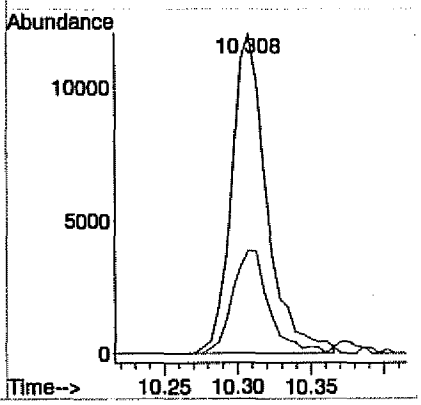


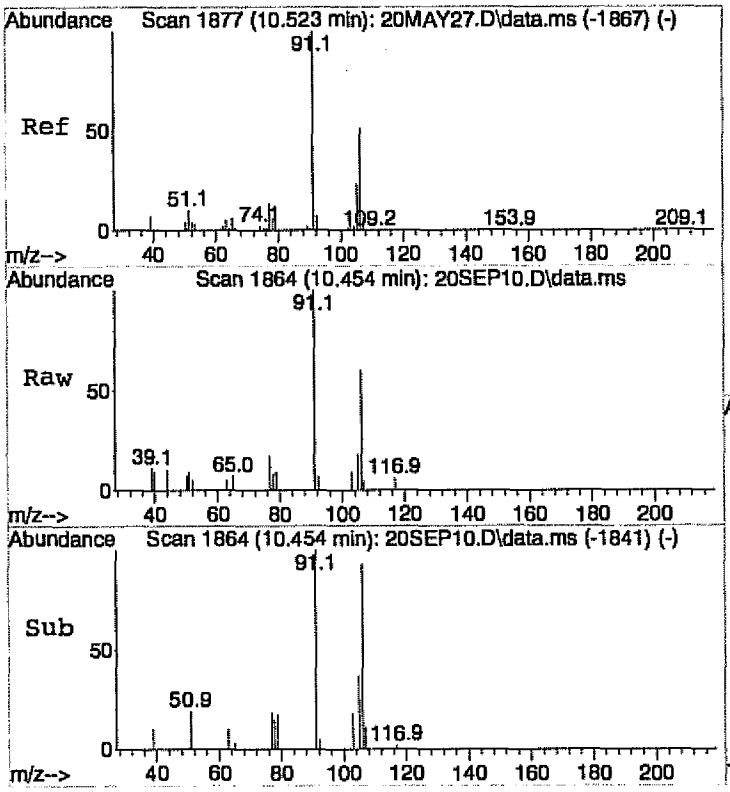


#79
Ethylbenzene
Concen: 0.60 ug/L
RT: 10.308 min Scan# 1836
Delta R.T. 0.006 min
Lab File: 20SEP10.D
Acq: 20 Sep 2016 2:32 pm

Tgt Ion: 91 Resp: 20162

Ion	Ratio	Lower	Upper
91	100		
106	33.4	1.3	61.3

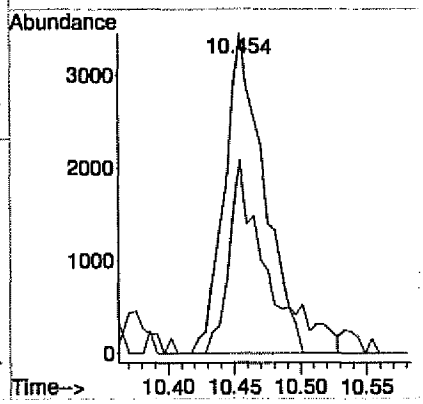




#80
m/p-Xylene
Concen: 0.25 ug/L
RT: 10.454 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 20SEP10.D
Acq: 20 Sep 2016 2:32 pm

Tgt Ion: 91 Resp: 7693

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.4	80.4#



Data Path : H:\VMS6\6V160921\
Data File : 21SEP10.D
Acq On : 21 Sep 2016 3:16 pm
Operator : BJG
Sample : 16091057-01A DF200
Misc : IS\SS 200-19373
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 15:38:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	202540	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	312465	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.135	117	287563	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	127284	20.00 ug/L	# 0.00
116) Ethyl Acetate-d8	4.069	46	29181	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.934	111	79069	18.14 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 90.70%		
48) 1,2-Dichloroethane-d4	5.489	65	103841	19.51 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 97.55%		
65) Toluene-d8	8.420	98	373861	19.83 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 99.15%		
85) Bromofluorobenzene	11.451	95	127125	18.81 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 94.05%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D.	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethyl ether	0.000		0	N.D.	
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	0.000		0	N.D.	
13) Acetone	2.134	43	93457	67.36 ug/L	98
14) Carbon disulfide	0.000		0	N.D.	
15) Allyl chloride	0.000		0	N.D.	
16) Methyl acetate	0.000		0	N.D.	
17) Acetonitrile	0.000		0	N.D.	
18) Methylene chloride	0.000		0	N.D.	
19) t-Butanol	0.000		0	N.D.	
20) trans-1,2-Dichloroethene	0.000		0	N.D.	
21) Acrylonitrile	0.000		0	N.D.	
22) Methyl tert-butyl ether	0.000		0	N.D.	
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	0.000		0	N.D.	
25) Diisopropyl ether	0.000		0	N.D.	
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	0.000		0	N.D.	
29) Ethyl tert butyl ether	0.000		0	N.D.	
30) 2,2-Dichloropropane	0.000		0	N.D.	
31) cis-1,2-Dichloroethene	0.000		0	N.D.	
32) 2-Butanone	4.137	43	24183	12.29 ug/L #	82
33) Ethyl Acetate	0.000		0	N.D. d	
34) Methyl acrylate	0.000		0	N.D.	
35) Propionitrile	0.000		0	N.D.	

Data Path : H:\VMS6\6V160921\
Data File : 21SEP10.D
Acq On : 21 Sep 2016 3:16 pm
Operator : BJG
Sample : 16091057-01A DF200
Misc : IS\SS 200-19373
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 15:38:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	0.000		0	N.D.	
37) Tetrahydrofuran	0.000		0	N.D.	
38) Methacrylonitrile	0.000		0	N.D.	
39) Chloroform	0.000		0	N.D.	
40) Cyclohexane	0.000		0	N.D.	
41) Isobutyl Alcohol	0.000		0	N.D.	
43) 1,1,1-Trichloroethane	0.000		0	N.D.	
45) Carbon tetrachloride	0.000		0	N.D. d	
46) 1,1-Dichloropropene	0.000		0	N.D.	
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	0.000		0	N.D.	
50) Benzene	0.000		0	N.D.	
51) Tertiaryamylmethylether	0.000		0	N.D.	
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	0.000		0	N.D.	
54) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
56) Dibromomethane	0.000		0	N.D.	
57) Methyl methacrylate	0.000		0	N.D.	
58) 1,4-Dioxane	0.000		0	N.D.	
59) Bromodichloromethane	0.000		0	N.D.	
60) 2-Nitropropane	0.000		0	N.D.	
61) cis-1,3-Dichloropropene	0.000		0	N.D.	
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	0.000		0	N.D.	
66) Toluene	8.509	91	91463	3.64 ug/L	98
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	0.000		0	N.D.	
69) Ethyl methacrylate	0.000		0	N.D.	
70) 1,1,2-Trichloroethane	0.000		0	N.D.	
71) Tetrachloroethene	0.000		0	N.D.	
72) 1,3-Dichloropropane	0.000		0	N.D.	
73) 2-Hexanone	0.000		0	N.D.	
74) Chlorodibromomethane	0.000		0	N.D.	
75) Butyl acetate	0.000		0	N.D.	
76) 1,2-Dibromoethane	0.000		0	N.D.	
77) Chlorobenzene	0.000		0	N.D.	
78) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
79) Ethylbenzene	0.000		0	N.D.	
80) m/p-Xylene	0.000		0	N.D.	
81) Styrene	0.000		0	N.D.	
82) o-Xylene	0.000		0	N.D.	
83) Bromoform	0.000		0	N.D.	
84) Isopropylbenzene	0.000		0	N.D.	
86) Bromobenzene	0.000		0	N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
88) 1,2,3-Trichloropropane	0.000		0	N.D.	
89) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
90) n-Propylbenzene	0.000		0	N.D.	
91) 2-Chlorotoluene	0.000		0	N.D.	
92) 4-Chlorotoluene	0.000		0	N.D.	
93) 1,3,5-Trimethylbenzene	0.000		0	N.D.	

Data Path : H:\VMS6\6V160921\
Data File : 21SEP10.D
Acq On : 21 Sep 2016 3:16 pm
Operator : BJG
Sample : 16091057-01A DF200
Misc : IS\SS 200-19373
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 15:38:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

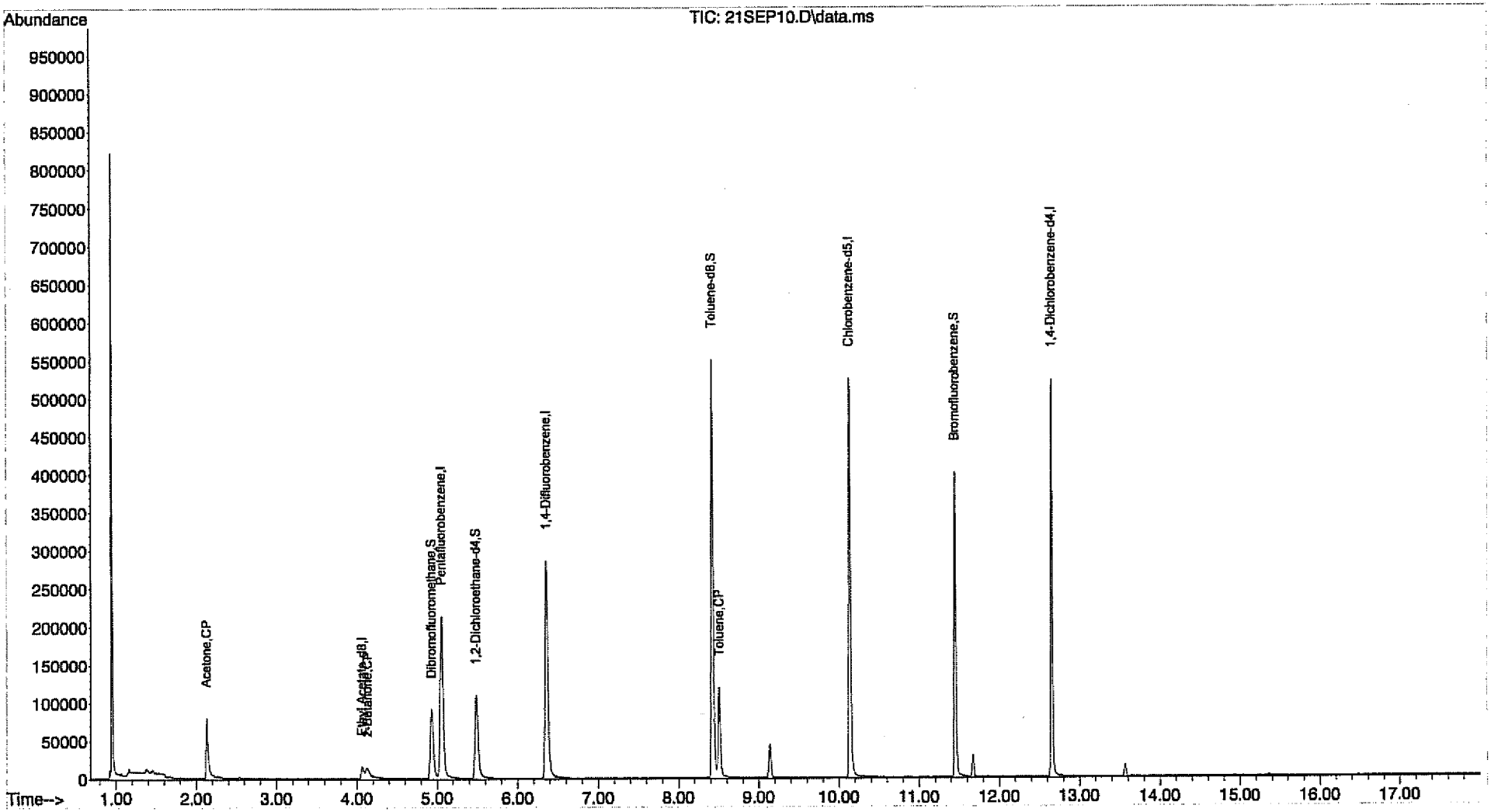
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	0.000		0	N.D.	
95)	tert-Butylbenzene	0.000		0	N.D.	
96)	Pentachloroethane	0.000		0	N.D.	
97)	1,2,4-Trimethylbenzene	0.000		0	N.D.	
98)	sec-Butylbenzene	0.000		0	N.D.	
100)	1,3-Dichlorobenzene	0.000		0	N.D.	
101)	p-Isopropyltoluene	0.000		0	N.D.	
102)	1,4-Dichlorobenzene	0.000		0	N.D.	
103)	1,2,3-Trimethylbenzene	0.000		0	N.D.	
104)	Benzyl chloride	0.000		0	N.D.	
105)	1,2-Dichlorobenzene	0.000		0	N.D.	
106)	n-Butylbenzene	0.000		0	N.D.	
107)	Hexachloroethane	0.000		0	N.D.	
108)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
109)	1,3,5-Trichlorobenzene	0.000		0	N.D.	
110)	1,2,4-Trichlorobenzene	0.000		0	N.D.	
111)	Hexachlorobutadiene	0.000		0	N.D.	
112)	Naphthalene	0.000		0	N.D.	
113)	1,2,3-Trichlorobenzene	0.000		0	N.D.	
114)	2-Methylnaphthalene	0.000		0	N.D.	
115)	1-Methylnaphthalene	0.000		0	N.D.	
117)	2-Propanone	2.134	43	93457	Below Cal	98
118)	Acetic Ether	0.000		0	N.D. d	
119)	Isopropyl Acetate	0.000		0	N.D.	
120)	Amyl Acetate	0.000		0	N.D.	

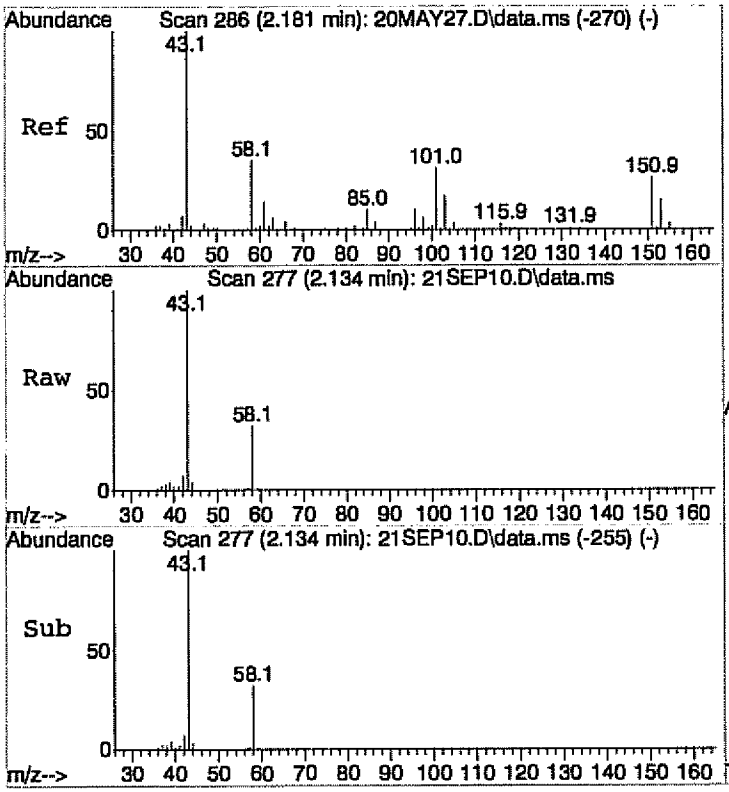
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP10.D
Acq On : 21 Sep 2016 3:16 pm
Operator : BJG
Sample : 16091057-01A DF200
Misc : IS\SS 200-19373
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 15:38:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

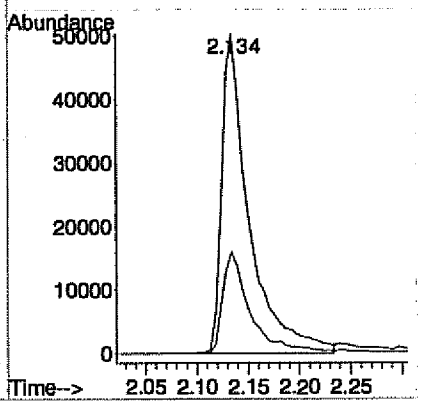


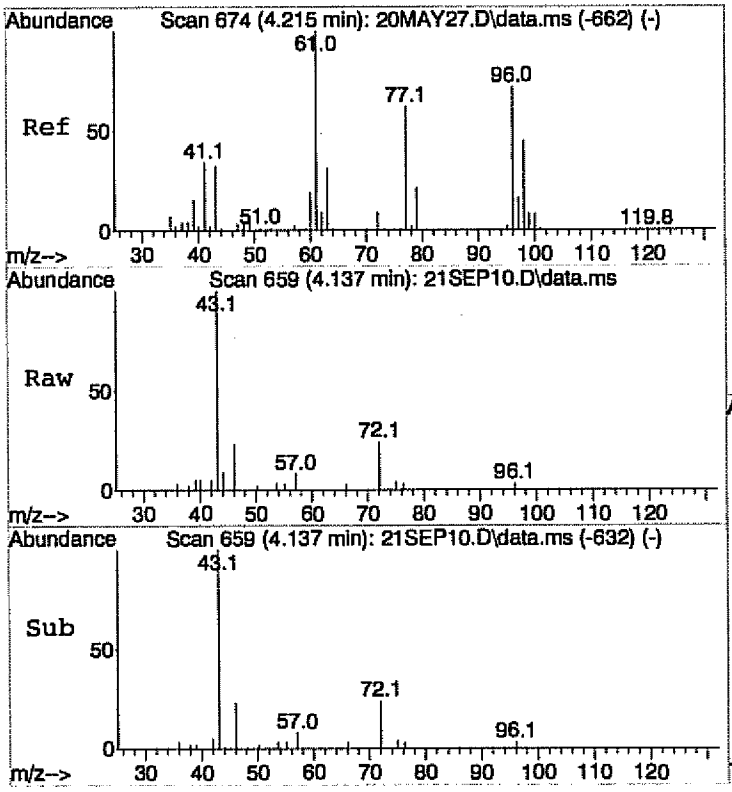


#13
Acetone
Concen: 67.36 ug/L
RT: 2.134 min Scan# 277
Delta R.T. -0.005 min
Lab File: 21SEP10.D
Acq: 21 Sep 2016 3:16 pm

Tgt Ion: 43 Resp: 93457

Ion	Ratio	Lower	Upper
43	100		
58	31.8	3.0	63.0

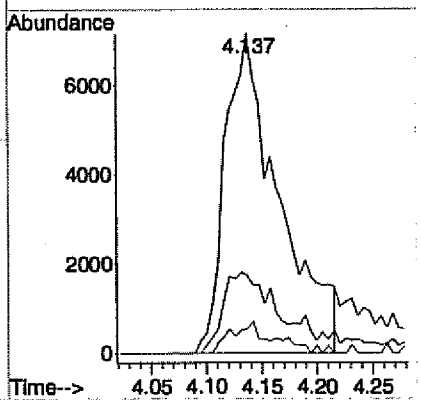




#32
2-Butanone
Concen: 12.29 ug/L
RT: 4.137 min Scan# 659
Delta R.T. 0.021 min
Lab File: 21SEP10.D
Acq: 21 Sep 2016 3:16 pm

Tgt Ion: 43 Resp: 24183

Ion	Ratio	Lower	Upper
43	100		
72	22.0	0.8	60.8
57	0.0	0.0	38.8



Data Path : H:\VMS6\6V160920\
Data File : 20SEP09.D
Acq On : 20 Sep 2016 2:06 pm
Operator : BJG
Sample : 16091057-02A
Misc : IS\SS 200-19373
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 21 09:01:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.065	168	210125	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	328239	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.140	117	297383	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	137408	20.00 ug/L	# 0.00
116) Ethyl Acetate-d8	4.074	46	26502	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.939	111	84577	18.47 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 92.35%		
48) 1,2-Dichloroethane-d4	5.495	65	107762	19.28 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.40%		
65) Toluene-d8	8.420	98	390677	20.04 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 100.20%		
85) Bromofluorobenzene	11.451	95	135264	19.35 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 96.75%		

Target Compounds			Qvalue
2) Dichlorodifluoromethane	0.000	0	N.D.
3) Chloromethane	0.000	0	N.D.
4) Vinyl chloride	0.000	0	N.D.
5) Bromomethane	0.000	0	N.D.
6) Chloroethane	0.000	0	N.D.
7) Trichlorofluoromethane	0.000	0	N.D.
8) Ethyl ether	0.000	0	N.D.
9) Acrolein	0.000	0	N.D.
10) 1,1-Dichloroethene	0.000	0	N.D.
11) 1,1,2-Trichlorotrifluo...	0.000	0	N.D.
12) Methyl iodide	0.000	0	N.D.
13) Acetone	0.000	0	N.D.
14) Carbon disulfide	0.000	0	N.D.
15) Allyl chloride	0.000	0	N.D.
16) Methyl acetate	0.000	0	N.D.
17) Acetonitrile	0.000	0	N.D.
18) Methylene chloride	0.000	0	N.D.
19) t-Butanol	0.000	0	N.D.
20) trans-1,2-Dichloroethene	0.000	0	N.D.
21) Acrylonitrile	0.000	0	N.D.
22) Methyl tert-butyl ether	0.000	0	N.D.
23) Hexane	0.000	0	N.D.
24) 1,1-Dichloroethane	0.000	0	N.D.
25) Diisopropyl ether	0.000	0	N.D.
26) Vinyl acetate	0.000	0	N.D.
27) Chloroprene	0.000	0	N.D.
28) n-Butanol	0.000	0	N.D.
29) Ethyl tert butyl ether	0.000	0	N.D.
30) 2,2-Dichloropropane	0.000	0	N.D.
31) cis-1,2-Dichloroethene	0.000	0	N.D.
32) 2-Butanone	0.000	0	N.D.
33) Ethyl Acetate	0.000	0	N.D.
34) Methyl acrylate	0.000	0	N.D.
35) Propionitrile	0.000	0	N.D.

Data Path : H:\VMS6\6V160920\
Data File : 20SEP09.D
Acq On : 20 Sep 2016 2:06 pm
Operator : BJG
Sample : 16091057-02A
Misc : IS\SS 200-19373
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 21 09:01:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	0.000		0	N.D.	
37) Tetrahydrofuran	0.000		0	N.D.	
38) Methacrylonitrile	0.000		0	N.D.	
39) Chloroform	0.000		0	N.D.	
40) Cyclohexane	0.000		0	N.D.	
41) Isobutyl Alcohol	0.000		0	N.D.	
43) 1,1,1-Trichloroethane	0.000		0	N.D.	
45) Carbon tetrachloride	0.000		0	N.D.	d
46) 1,1-Dichloropropene	0.000		0	N.D.	
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	0.000		0	N.D.	
50) Benzene	0.000		0	N.D.	
51) Tertiaryamylmethylether	0.000		0	N.D.	
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	0.000		0	N.D.	
54) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
56) Dibromomethane	0.000		0	N.D.	
57) Methyl methacrylate	0.000		0	N.D.	
58) 1,4-Dioxane	0.000		0	N.D.	
59) Bromodichloromethane	0.000		0	N.D.	
60) 2-Nitropropane	0.000		0	N.D.	
61) cis-1,3-Dichloropropene	0.000		0	N.D.	
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	0.000		0	N.D.	
66) Toluene	0.000		0	N.D.	
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	0.000		0	N.D.	
69) Ethyl methacrylate	0.000		0	N.D.	
70) 1,1,2-Trichloroethane	0.000		0	N.D.	
71) Tetrachloroethene	0.000		0	N.D.	
72) 1,3-Dichloropropane	0.000		0	N.D.	
73) 2-Hexanone	0.000		0	N.D.	
74) Chlorodibromomethane	0.000		0	N.D.	
75) Butyl acetate	0.000		0	N.D.	
76) 1,2-Dibromoethane	0.000		0	N.D.	
77) Chlorobenzene	0.000		0	N.D.	
78) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
79) Ethylbenzene	0.000		0	N.D.	
80) m/p-Xylene	0.000		0	N.D.	
81) Styrene	0.000		0	N.D.	
82) o-Xylene	0.000		0	N.D.	
83) Bromoform	0.000		0	N.D.	
84) Isopropylbenzene	0.000		0	N.D.	
86) Bromobenzene	0.000		0	N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
88) 1,2,3-Trichloropropane	0.000		0	N.D.	
89) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
90) n-Propylbenzene	0.000		0	N.D.	
91) 2-Chlorotoluene	0.000		0	N.D.	
92) 4-Chlorotoluene	0.000		0	N.D.	
93) 1,3,5-Trimethylbenzene	0.000		0	N.D.	

Data Path : H:\VMS6\6V160920\
Data File : 20SEP09.D
Acq On : 20 Sep 2016 2:06 pm
Operator : BJG
Sample : 16091057-02A
Misc : IS\SS 200-19373
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 21 09:01:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

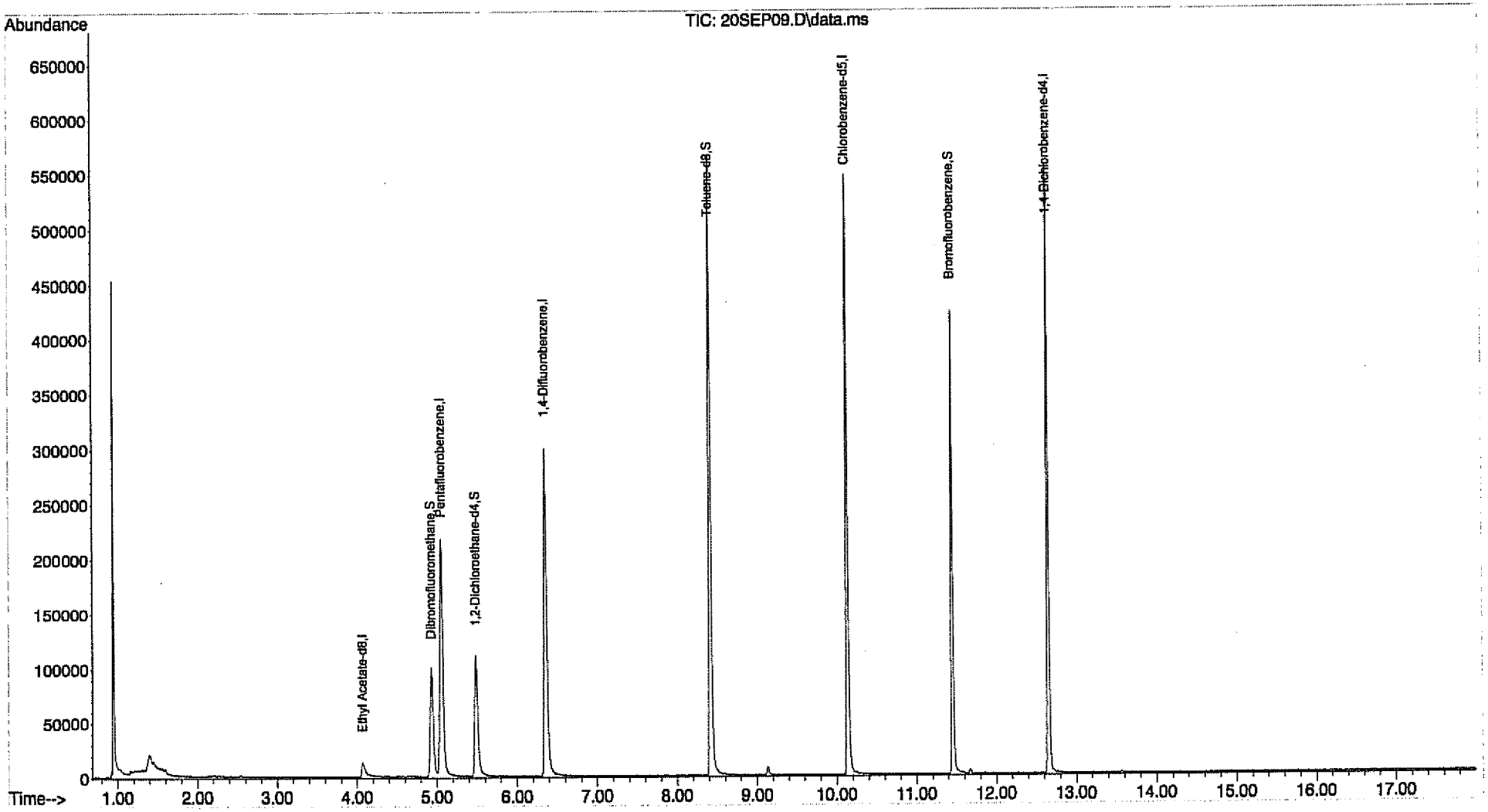
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	0.000		0	N.D.	
95) tert-Butylbenzene	0.000		0	N.D.	
96) Pentachloroethane	0.000		0	N.D.	
97) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
98) sec-Butylbenzene	0.000		0	N.D.	
100) 1,3-Dichlorobenzene	0.000		0	N.D.	
101) p-Isopropyltoluene	0.000		0	N.D.	
102) 1,4-Dichlorobenzene	0.000		0	N.D.	
103) 1,2,3-Trimethylbenzene	0.000		0	N.D.	
104) Benzyl chloride	0.000		0	N.D.	
105) 1,2-Dichlorobenzene	0.000		0	N.D.	
106) n-Butylbenzene	0.000		0	N.D.	
107) Hexachloroethane	0.000		0	N.D.	
108) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
109) 1,3,5-Trichlorobenzene	0.000		0	N.D.	
110) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
111) Hexachlorobutadiene	0.000		0	N.D.	
112) Naphthalene	0.000		0	N.D.	
113) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
114) 2-Methylnaphthalene	0.000		0	N.D.	
115) 1-Methylnaphthalene	0.000		0	N.D.	
117) 2-Propanone	0.000		0	N.D.	
118) Acetic Ether	0.000		0	N.D.	
119) Isopropyl Acetate	0.000		0	N.D.	
120) Amyl Acetate	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP09.D
Acq On : 20 Sep 2016 2:06 pm
Operator : BJG
Sample : 16091057-02A
Misc : IS\SS 200-19373
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 21 09:01:57 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Response Factor Report VMS6

Method Path : H:\VMS6\
Method File : 6AC0916B.M
Title : 8260B/624 Volatile Calibration
Last Update : Thu Jun 11 12:20:15 2009
Response Via : Initial Calibration

Calibration Files
1 =16SEP09.D 2 =16SEP10.D 3 =16SEP11.D 4 =16SEP12.D 5 =16SEP13.D 6 =16SEP15.D 7 =16SEP16.D
8 =16SEP17.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------									
2)	T	Dichlorodifluo...	0.671	0.727	0.748	0.706	0.691	0.667	0.672	0.610	0.686	6.16
3)	CP	Chloromethane	0.443	0.651	0.625	0.605	0.641	0.616	0.716	0.793	0.636	15.71
4)	CP	Vinyl chloride	0.644	0.758	0.745	0.701	0.708	0.688	0.718	0.696	0.707	4.96
5)	CP	Bromomethane	0.211	0.214	0.191	0.196	0.191	0.208	0.242	0.254	0.213	10.90#
6)	CP	Chloroethane	0.465	1.766	0.524	0.638	0.504	0.421	0.427	0.417	0.645	71.11#
7)	CP	Trichlorofluor...	0.821	0.848	0.811	0.805	0.764	0.765	0.771	0.723	0.788	5.06#
8)	C	Ethyl ether	0.367	0.358	0.430	0.432	0.456	0.451	0.459	0.462	0.427	9.73#
9)	C	Acrolein	0.025	0.020	0.032	0.024	0.028	0.019	0.021	0.026	0.024#	17.61#
10)	CP	1,1-Dichloroet...	0.727	0.620	0.682	0.697	0.766	0.731	0.765	0.723	0.714	6.71
11)	CP	1,1,2-Trichlor...	0.315	0.311	0.335	0.334	0.376	0.359	0.367	0.333	0.342	6.96#
12)	C	Methyl iodide	0.202	0.238	0.325	0.385	0.453	0.488	0.531	0.477	0.387	31.41#
13)	CP	Acetone		0.360	0.185	0.157	0.156	0.124	0.127	0.144	0.179	46.01#
14)	CP	Carbon disulfide	1.431	1.212	1.131	1.210	1.310	1.358	1.474	1.432	1.320	9.47#
15)	C	Allyl chloride	0.784	0.669	0.622	0.681	0.750	0.778	0.819	0.802	0.738	9.71#
16)	CP	Methyl acetate	0.473	0.360	0.343	0.341	0.384	0.375	0.394	0.452	0.390	12.46#
17)	C	Acetonitrile	0.526	0.428	0.360	0.330	0.338	0.311	0.310	0.327	0.366	20.42#
18)	CP	Methylene chlo...	0.838	0.682	0.674	0.699	0.712	0.679	0.694	0.681	0.707	7.65#
19)	C	t-Butanol	0.022	0.031	0.031	0.032	0.032	0.036	0.039	0.048	0.034#	22.48#
20)	CP	trans-1,2-Dich...	0.687	0.583	0.690	0.710	0.784	0.750	0.778	0.750	0.717	9.16#
21)	C	Acrylonitrile		0.040	0.130	0.124	0.161	0.182	0.197	0.212	0.149#	38.92#
22)	CP	Methyl tert-bu...	1.909	1.727	1.469	1.412	1.546	1.441	1.475	1.587	1.571	10.79#
23)	C	Hexane	0.584	0.511	0.582	0.587	0.651	0.657	0.675	0.610	0.607	8.75#
24)	CP	1,1-Dichloroet...	0.855	0.850	0.887	0.939	0.985	0.961	0.996	0.958	0.929	6.17
25)	C	Diisopropyl ether	2.188	1.846	1.633	1.637	1.779	1.715	1.767	1.874	1.805	9.85#
26)	C	Vinyl acetate		0.023	0.075	0.069	0.101	0.107	0.116	0.133	0.089#	40.99#
27)	C	Chloroprene	0.683	0.690	0.739	0.786	0.864	0.848	0.888	0.850	0.793	10.23#
28)		n-Butanol	0.016	0.013	0.021	0.010	0.011	0.009	0.009	0.010	0.012#	32.24
29)	C	Ethyl tert but...	1.999	1.816	1.563	1.512	1.702	1.597	1.647	1.770	1.701	9.30#
30)	C	2,2-Dichloropr...	0.720	0.626	0.670	0.674	0.730	0.715	0.749	0.722	0.701	5.76#
31)	CP	cis-1,2-Dichlo...	0.892	0.789	0.828	0.852	0.897	0.878	0.912	0.879	0.866	4.71#
32)	CP	2-Butanone	0.027	0.266	0.019	0.187	0.187	0.188	0.208	0.234	0.164	55.78#
33)	C	Ethyl Acetate	0.050	0.536	0.291	0.497	0.425	0.454	0.485	0.573	0.414	40.98#
34)	C	Methyl acrylate	0.030	0.108	0.084	0.304	0.367	0.410	0.458	0.501	0.282	65.01#
35)	C	Propionitrile		0.009	0.043	0.070	0.071	0.065	0.064	0.058	0.054#	40.60#
36)	C	Bromochloromet...	0.472	0.373	0.414	0.428	0.460	0.456	0.461	0.431	0.437	7.42#
37)	C	Tetrahydrofuran	0.060	0.045	0.141	0.146	0.128	0.155	0.160	0.175	0.126#	37.78#
38)	C	Methacrylonitrile	0.298	0.023	0.176	0.235	0.356	0.372	0.397	0.428	0.286	47.54#

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39)	CP	Chloroform	0.884	0.791	0.831	0.907	0.978	0.940	0.968	0.940	0.905	7.30
40)	CP	Cyclohexane	0.812	0.839	0.839	0.868	0.943	0.961	1.000	0.917	0.897	7.53#
41)	C	Isobutyl Alcohol	1.968	0.956	0.859	1.349	1.545	1.129	1.193	1.285	1.285	27.28#
42)	I	1,4-Difluorobenzene	----------ISTD----------									
43)	CP	1,1,1-Trichlor...	0.372	0.392	0.405	0.462	0.507	0.503	0.535	0.499	0.460	13.43#
44)	S	Dibromofluorom...	0.271	0.277	0.275	0.277	0.280	0.284	0.287	0.282	0.279	1.90
45)	CP	Carbon tetrach...	0.473	0.437	0.333	0.354	0.386	0.398	0.444	0.413	0.405	11.63#
46)	C	1,1-Dichloropr...	0.505	0.517	0.416	0.464	0.498	0.503	0.535	0.493	0.492	7.44#
47)	C	2,2,4-Trimethy...	0.660	0.612	0.632	0.662	0.694	0.748	0.781	0.704	0.687	8.35#
48)	S	1,2-Dichloroet...	0.337	0.340	0.341	0.343	0.341	0.342	0.342	0.339	0.341	0.63
49)	CP	1,2-Dichloroet...	0.461	0.402	0.441	0.442	0.461	0.462	0.470	0.460	0.450	4.88#
50)	CP	Benzene	1.394	1.245	1.386	1.497	1.594	1.550	1.625	1.524	1.477	8.59#
51)	C	Tertiaryamylme...	1.208	1.098	0.905	0.901	1.017	0.992	1.041	1.089	1.031	9.97#
52)	C	Heptane		0.103	0.273	0.259	0.270	0.296	0.315	0.281	0.257	27.36#
53)	CP	Methylcyclohexane	0.455	0.432	0.449	0.486	0.521	0.540	0.558	0.502	0.493	9.22#
54)	CP	Trichloroethene	0.347	0.291	0.361	0.379	0.400	0.400	0.419	0.386	0.373	10.79#
55)	CP	1,2-Dichloropr...	0.352	0.286	0.348	0.369	0.388	0.390	0.407	0.389	0.366	10.40
56)	C	Dibromomethane	0.196	0.174	0.201	0.207	0.218	0.218	0.225	0.221	0.207	8.12#
57)	C	Methyl methacr...	0.054	0.146	0.239	0.264	0.280	0.301	0.330	0.341	0.244	40.17#
58)	C	1,4-Dioxane	0.000	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002#	43.24#
59)	CP	Bromodichlorom...	0.308	0.295	0.354	0.382	0.393	0.436	0.471	0.460	0.387	17.06#
60)	C	2-Nitropropane	0.037	0.074	0.061	0.054	0.057	0.069	0.082	0.091	0.066#	26.23#
61)	CP	cis-1,3-Dichlo...	0.326	0.374	0.425	0.461	0.528	0.586	0.623	0.606	0.491	22.75#
62)	T	2-Chloroethyl ...	0.049	0.099	0.177	0.200	0.221	0.230	0.243	0.252	0.184#	39.60
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	CP	4-Methyl-2-pen...	0.323	0.272	0.272	0.278	0.317	0.336	0.347	0.390	0.317	13.17#
65)	S	Toluene-d8	1.304	1.306	1.311	1.301	1.309	1.337	1.320	1.301	1.311	0.92
66)	CP	Toluene	1.635	1.559	1.619	1.750	1.884	1.846	1.902	1.785	1.747	7.43
67)	c	Chloropicrin			0.017	0.032	0.048	0.092	0.128	0.150	0.078#	69.91#
68)	CP	trans-1,3-Dich...	0.323	0.299	0.362	0.408	0.498	0.575	0.596	0.598	0.457	27.30#
69)	C	Ethyl methacry...	0.229	0.309	0.356	0.402	0.470	0.515	0.535	0.551	0.421	27.69#
70)	CP	1,1,2-Trichlor...	0.267	0.280	0.326	0.340	0.356	0.363	0.369	0.359	0.332	11.79#
71)	CP	Tetrachloroethene	0.424	0.364	0.410	0.432	0.468	0.454	0.462	0.429	0.430	7.78#
72)	C	1,3-Dichloropr...	0.530	0.475	0.566	0.615	0.645	0.642	0.650	0.641	0.595	10.94#
73)	CP	2-Hexanone	0.183	0.137	0.117	0.191	0.214	0.224	0.236	0.268	0.196	25.65#
74)	CP	Chlorodibromom...	0.215	0.178	0.244	0.267	0.326	0.373	0.394	0.391	0.299	28.17#
75)	C	Butyl acetate	0.573	0.424	0.477	0.441	0.558	0.571	0.609	0.672	0.541	15.90#
76)	CP	1,2-Dibromoethane	0.276	0.219	0.299	0.312	0.340	0.352	0.361	0.352	0.314	15.40#
77)	CP	Chlorobenzene	0.981	0.983	1.052	1.125	1.197	1.172	1.193	1.131	1.104	8.01
78)	C	1,1,1,2-Tetrac...	0.224	0.237	0.265	0.292	0.331	0.355	0.371	0.356	0.304	18.84#
79)	CP	Ethylbenzene	1.636	1.514	1.743	1.881	2.075	2.043	2.119	1.999	1.876	11.88
80)	CP	m/p-Xylene	1.152	1.173	1.295	1.430	1.559	1.566	1.605	1.521	1.413	12.91#
81)	CP	Styrene	0.936	0.766	0.979	1.085	1.214	1.257	1.290	1.249	1.097	17.19#
82)	CP	o-Xylene	1.197	1.126	1.317	1.419	1.545	1.557	1.598	1.525	1.410	12.67#
83)	CP	Bromoform	0.151	0.138	0.141	0.144	0.182	0.221	0.243	0.249	0.184	25.84
84)	CP	Isopropylbenzene	1.374	1.322	1.554	1.702	1.861	1.853	1.900	1.793	1.670	13.61#

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85)	S	Bromofluoroben...	0.459	0.461	0.465	0.465	0.469	0.479	0.477	0.486	0.470	2.05
86)	C	Bromobenzene	0.672	0.606	0.638	0.682	0.733	0.732	0.750	0.728	0.693	7.44#
87)	CP	1,1,2,2-Tetrac...	0.345	0.362	0.416	0.446	0.485	0.486	0.500	0.508	0.443	14.22
88)	C	1,2,3-Trichlor...	0.120	0.110	0.130	0.138	0.141	0.142	0.147	0.149	0.135#	10.18#
89)	C	trans-1,4-Dich...	0.061	0.066	0.084	0.101	0.115	0.135	0.142	0.150	0.107#	32.20#
90)	C	n-Propylbenzene	1.564	1.441	1.698	1.848	2.059	2.068	2.134	2.018	1.854	14.01#
91)	C	2-Chlorotoluene	1.032	1.054	1.084	1.176	1.252	1.235	1.279	1.219	1.167	8.27#
92)	C	4-Chlorotoluene	1.142	1.061	1.172	1.311	1.416	1.431	1.472	1.414	1.302	12.02#
93)	C	1,3,5-Trimethy...	0.978	0.936	1.088	1.213	1.342	1.361	1.399	1.336	1.207	15.19#
94)	C	Cyclohexanone	0.033	0.022	0.010	0.010	0.012	0.012	0.013	0.016	0.016#	50.97#
95)	C	tert-Butylbenzene	0.545	0.518	0.594	0.648	0.713	0.704	0.733	0.700	0.644	12.82#
96)	C	Pentachloroethane	0.032	0.031	0.037	0.036	0.040	0.038	0.039	0.038	0.036#	9.24#
97)	C	1,2,4-Trimethy...	1.069	0.854	1.114	1.209	1.350	1.376	1.426	1.370	1.221	16.21#
98)	C	sec-Butylbenzene	1.085	1.113	1.215	1.395	1.527	1.540	1.598	1.513	1.373	15.01#
99)	I	1,4-Dichlorobenzen...	----------ISTD----------									
100)	CP	1,3-Dichlorobe...	1.343	1.248	1.387	1.529	1.635	1.644	1.641	1.568	1.499	10.25#
101)	C	p-Isopropyltol...	2.086	1.819	2.166	2.412	2.675	2.770	2.844	2.658	2.429	15.25#
102)	CP	1,4-Dichlorobe...	1.487	1.417	1.540	1.604	1.701	1.688	1.687	1.605	1.591	6.49#
103)	C	1,2,3-Trimethy...	2.114	1.996	2.412	2.630	2.860	2.909	2.927	2.800	2.581	14.23#
104)	C	Benzyl chloride	0.621	0.590	0.719	0.832	1.056	1.400	1.545	1.646	1.051	40.60#
105)	CP	1,2-Dichlorobe...	1.377	1.112	1.344	1.423	1.533	1.567	1.567	1.501	1.428	10.75#
106)	C	n-Butylbenzene	1.573	1.472	1.743	1.917	2.188	2.286	2.372	2.229	1.972	17.53#
107)	C	Hexachloroethane	0.125	0.191	0.209	0.216	0.255	0.344	0.380	0.374	0.262	35.91#
108)	CP	1,2-Dibromo-3-...	0.045	0.073	0.108	0.126	0.158	0.176	0.191	0.204	0.135	42.25#
109)	C	1,3,5-Trichlor...	0.687	0.594	0.689	0.734	0.779	0.819	0.843	0.806	0.744	11.30#
110)	CP	1,2,4-Trichlor...	0.690	0.580	0.638	0.670	0.753	0.783	0.815	0.789	0.715	11.63#
111)	C	Hexachlorobuta...	0.351	0.272	0.273	0.255	0.293	0.314	0.328	0.305	0.299	10.75#
112)	C	Naphthalene	1.656	1.567	1.771	1.934	2.220	2.371	2.495	2.566	2.072	18.88#
113)	C	1,2,3-Trichlor...	0.575	0.524	0.556	0.613	0.657	0.688	0.716	0.709	0.630	11.65#
114)	C	2-Methylnaphth...	0.439	0.365	0.465	0.521	0.599	0.693	0.769	0.815	0.583	28.04#
115)	c	1-Methylnaphth...	0.291	0.302	0.353	0.394	0.464	0.507	0.570	0.603	0.436	27.33#
116)	I	Ethyl Acetate-d8	----------ISTD----------									
117)	C	2-Propanone		1.946	1.236	1.021	0.892	0.640	0.531	0.493	0.966	52.84#
118)	C	Acetic Ether	3.899	2.899	2.702	1.932	2.429	2.348	2.025	1.933	2.521	26.19#
119)	C	Isopropyl Acetate	1.087	0.784	0.879	1.089	1.170	0.950	0.832	0.763	0.944	16.39#
120)	C	Amyl Acetate	4.514	3.293	4.424	4.519	4.963	4.663	3.992	3.707	4.259	12.94#

(#) = Out of Range

Method Path : H:\VMS6\
Method File : 6AC0916B.M
Title : 8260B/624 Volatile Calibration
Last Update : Thu Jun 11 12:20:15 2009
Response Via : Initial Calibration

Calibration Files
1 =16SEP09 2 =16SEP10 3 =16SEP11 4 =16SEP12 5 =16SEP13 6 =16SEP15
7 =16SEP16 8 =16SEP17

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	I	Pentafluorobenzene		----------ISTD----------			
3)	CP	Chloromethane	Quad	0.0126	0.5135	0.0555	0.9998
5)	CP	Bromomethane	Quad	-0.0012	0.1913	0.0129	0.9995
6)	CP	Chloroethane	Lin	0.0280	0.4131	-----	0.9994
9)	C	Acrolein	Quad	0.0022	0.0124	0.0026	0.9973
12)	C	Methyl iodide	Lin	-0.0077	0.4958	-----	0.9960
13)	CP	Acetone	Lin	-0.0006	0.1372	-----	0.9927
16)	CP	Methyl acetate	Lin	-0.0290	0.4348	-----	0.9926
17)	C	Acetonitrile	Lin	-0.0004	0.3208	-----	0.9988
18)	CP	Methylene chloride	Lin	0.0042	0.6834	-----	0.9999
19)	C	t-Butanol	Quad	0.0061	0.0235	0.0010	0.9987
21)	C	Acrylonitrile	Quad	-0.0051	0.1655	0.0094	1.0000
26)	C	Vinyl acetate	Quad	-0.0002	0.0855	0.0093	0.9996
28)		n-Butanol	Lin	0.0025	0.0095	-----	0.9994
32)	CP	2-Butanone	Lin	-0.0202	0.2271	-----	0.9930
33)	C	Ethyl Acetate	Quad	0.0128	0.3354	0.0462	0.9991
34)	C	Methyl acrylate	Lin	-0.0502	0.4920	-----	0.9951
35)	C	Propionitrile	Lin	0.0031	0.0599	-----	0.9954
37)	C	Tetrahydrofuran	Lin	-0.0112	0.1712	-----	0.9969
38)	C	Methacrylonitrile	Lin	-0.0332	0.4219	-----	0.9971
41)	C	Isobutyl Alcohol	Lin	-0.0140	1.2479	-----	0.9962
42)	I	1,4-Difluorobenzene		----------ISTD----------			
52)	C	Heptane	Lin	0.0012	0.2919	-----	0.9950
57)	C	Methyl methacrylate	Lin	-0.0205	0.3392	-----	0.9984
58)	C	1,4-Dioxane	Quad	0.0040	0.0019	0.0000	0.9989
59)	CP	Bromodichloromet...	Lin	-0.0167	0.4650	-----	0.9993
60)	C	2-Nitropropane	Quad	-0.0005	0.0567	0.0070	0.9999
61)	CP	cis-1,3-Dichloro...	Lin	-0.0218	0.6144	-----	0.9994
62)	T	2-Chloroethyl vi...	Lin	-0.0125	0.2504	-----	0.9989
63)	I	Chlorobenzene-d5		----------ISTD----------			
64)	CP	4-Methyl-2-penta...	Lin	-0.0253	0.3783	-----	0.9949
67)	c	Chloropicrin	Quad	-0.0960	0.0670	0.0017	0.9993
68)	CP	trans-1,3-Dichlo...	Lin	-0.0283	0.6022	-----	0.9997
69)	C	Ethyl methacrylate	Lin	-0.0265	0.5492	-----	0.9994
73)	CP	2-Hexanone	Lin	-0.0210	0.2594	-----	0.9935
74)	CP	Chlorodibromomet...	Lin	-0.0189	0.3951	-----	0.9996
75)	C	Butyl acetate	Lin	-0.0455	0.6552	-----	0.9955
76)	CP	1,2-Dibromoethane	Lin	-0.0047	0.3559	-----	0.9998
78)	C	1,1,1,2-Tetrachl...	Lin	-0.0075	0.3620	-----	0.9994
79)	CP	Ethylbenzene	Lin	0.0047	2.0374	-----	0.9989
80)	CP	m/p-Xylene	Lin	0.0054	1.5495	-----	0.9990
81)	CP	Styrene	Lin	-0.0161	1.2654	-----	0.9996
82)	CP	o-Xylene	Lin	-0.0020	1.5503	-----	0.9993
83)	CP	Bromoform	Quad	-0.0088	0.2150	0.0074	0.9996
89)	C	trans-1,4-Dichlo...	Quad	-0.0035	0.1254	0.0050	1.0000
93)	C	1,3,5-Trimethylb...	Lin	-0.0065	1.3586	-----	0.9993
94)	C	Cyclohexanone	Quad	0.0038	0.0073	0.0003	0.9974
97)	C	1,2,4-Trimethylb...	Lin	-0.0146	1.3906	-----	0.9994
99)	I	1,4-Dichlorobenz...		----------ISTD----------			
101)	C	p-Isopropyltoluene	Lin	0.0016	2.7228	-----	0.9984
104)	C	Benzyl chloride	Lin	-0.1610	1.6315	-----	0.9967
106)	C	n-Butylbenzene	Lin	-0.0176	2.2808	-----	0.9987

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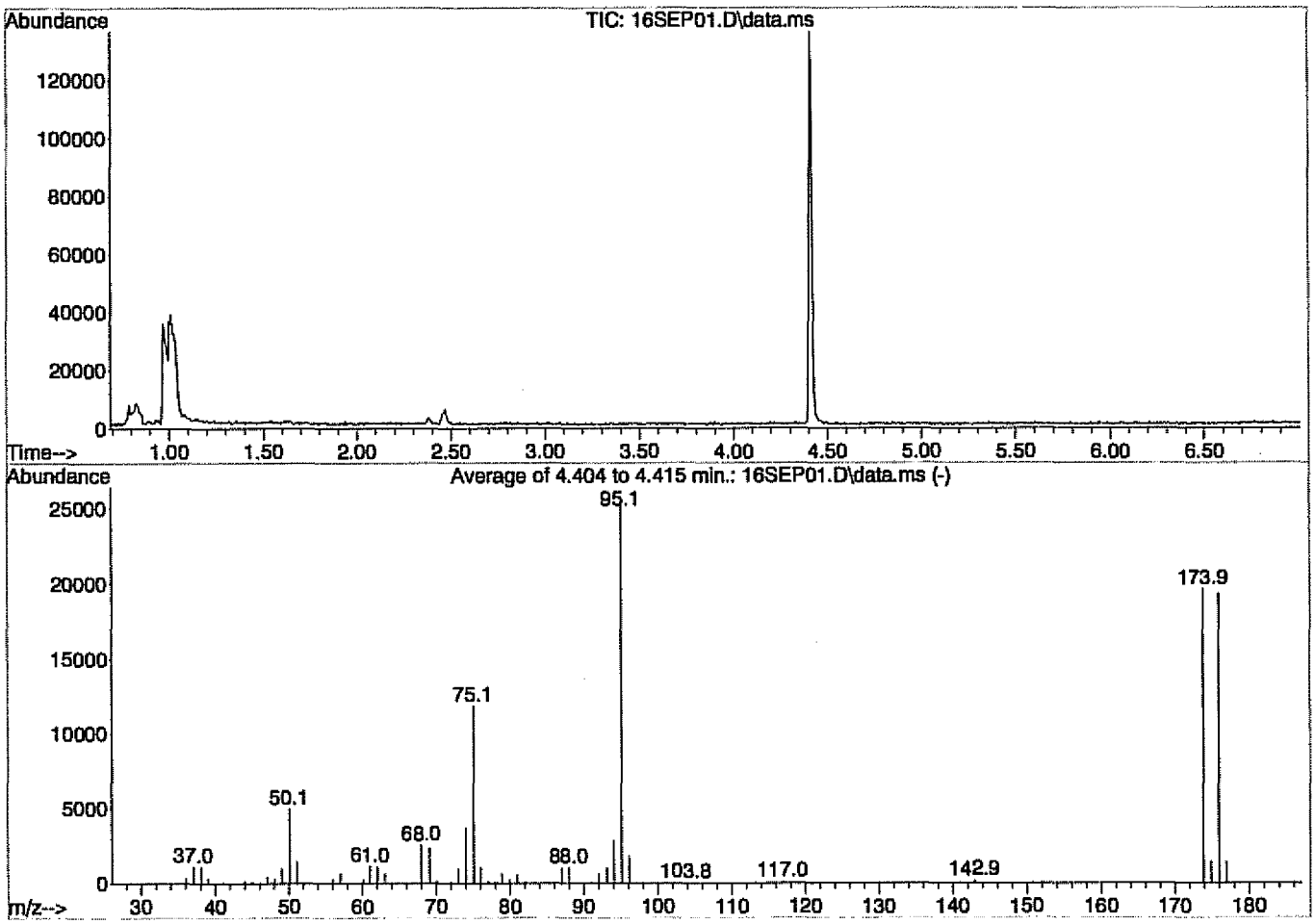
107)	C	Hexachloroethane	Quad	-0.0208	0.3568	0.0048	0.9989
108)	CP	1,2-Dibromo-3-ch...	Lin	-0.0161	0.2014	-----	0.9972
112)	C	Naphthalene	Lin	-0.1190	2.5561	-----	0.9993
114)	C	2-Methylnaphthalene	Lin	-0.0654	0.8059	-----	0.9970
115)	c	1-Methylnaphthalene	Lin	-0.0472	0.5958	-----	0.9967
116)	I	Ethyl Acetate-d8		----------ISTD----------			
117)	C	2-Propanone	Quad	0.0744	0.6565	-0.0367	0.9981
118)	C	Acetic Ether	Lin	0.1524	1.9618	-----	0.9945
119)	C	Isopropyl Acetate	Lin	0.0888	0.7802	-----	0.9914
120)	C	Amyl Acetate	Lin	0.3427	3.7981	-----	0.9917

Data Path : H:\VMS6\6V160916\
Data File : 16SEP01.D
Acq On : 16 Sep 2016 10:58 am
Operator : BJG
Sample : VBFB1-160916
Misc : 200-19271
ALS Vial : 1 Sample Multiplier: 1

Integration File: 8260.P

Method : H:\VMS6\6AC0916B.M
Title : 8260B/624 Volatile Calibration
Last Update : Thu Jun 11 12:20:15 2009



Spectrum Information: Average of 4.404 to 4.415 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	4974	PASS
75	95	30	60	47.0	11835	PASS
95	95	100	100	100.0	25162	PASS
96	95	5	9	7.1	1798	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.9	19590	PASS
175	174	5	9	7.4	1444	PASS
176	174	95	101	98.4	19282	PASS
177	176	5	9	7.3	1407	PASS

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP09.D
Acq On : 16 Sep 2016 4:11 pm
Operator : BJG
Sample : CAL1
Misc : IS\SS 200-19208
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 20 14:56:32 2016
Quant Method : C:\msdchem\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.054	168	201033	20.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.354	114	307419	20.00	ug/L		0.00
63) Chlorobenzene-d5	10.135	117	281880	20.00	ug/L		0.00
99) 1,4-Dichlorobenzene-d4	12.651	152	133181	20.00	ug/L	#	0.00
116) Ethyl Acetate-d8	4.069	46	33243	20.00	ug/L	#	0.00
System Monitoring Compounds							
44) Dibromofluoromethane	4.928	111	83166	18.65	ug/L		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 93.25%				
48) 1,2-Dichloroethane-d4	5.489	65	103514	18.95	ug/L		0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 94.75%				
65) Toluene-d8	8.420	98	367487	19.57	ug/L		0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 97.85%				
85) Bromofluorobenzene	11.451	95	129318	19.35	ug/L		0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 96.75%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.049	85	2698	0.26	ug/L		92
3) Chloromethane	1.164	50	1782	0.16	ug/L		87
4) Vinyl chloride	1.232	62	2590	0.23	ug/L	#	1
5) Bromomethane	1.447	94	847	Below Cal		#	64
6) Chloroethane	1.531	64	1870	0.28	ug/L		72
7) Trichlorofluoromethane	1.693	101	3301	0.28	ug/L		90
8) Ethyl ether	1.914	59	1476	0.57	ug/L		94
9) Acrolein	2.034	56	100	0.06	ug/L		98
10) 1,1-Dichloroethene	2.087	61	2923	0.40	ug/L		96
11) 1,1,2-Trichlorotrifluo...	2.102	151	1268	0.24	ug/L		88
12) Methyl iodide	2.212	142	811	1.26	ug/L	#	71
13) Acetone	2.150	43	2759m	1.71	ug/L		
14) Carbon disulfide	2.270	76	5755	0.30	ug/L		95
15) Allyl chloride	2.417	41	3154	0.30	ug/L		93
16) Methyl acetate	2.422	43	1902	1.40	ug/L	#	78
17) Acetonitrile	2.815	41	2114	0.61	ug/L	#	59
18) Methylene chloride	2.538	49	3368	Below Cal			93
19) t-Butanol	2.658	59	442	5.66	ug/L	#	49
20) trans-1,2-Dichloroethene	2.815	61	2762	0.26	ug/L		95
21) Acrylonitrile	2.847	53	308m	1.49	ug/L		
22) Methyl tert-butyl ether	2.805	73	7674	0.91	ug/L		95
23) Hexane	3.125	57	2350	0.26	ug/L		85
24) 1,1-Dichloroethane	3.324	63	3437	0.50	ug/L		96
25) Diisopropyl ether	3.376	45	8798	0.39	ug/L	#	70
26) Vinyl acetate	0.000		0	N.D.			
27) Chloroprene	3.397	53	2745	0.23	ug/L	#	92
28) n-Butanol	3.869	56	635	Below Cal		#	90
29) Ethyl tert butyl ether	3.880	59	8037	0.38	ug/L		97
30) 2,2-Dichloropropane	4.095	77	2894	0.28	ug/L		97
31) cis-1,2-Dichloroethene	4.105	61	3586	0.29	ug/L		80
32) 2-Butanone	4.089	43	107	1.09	ug/L	#	48
33) Ethyl Acetate	4.179	43	201	1.15	ug/L	#	66
34) Methyl acrylate	4.289	55	119	1.43	ug/L	#	65
35) Propionitrile	4.976	54	252	0.10	ug/L	#	58

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP09.D
Acq On : 16 Sep 2016 4:11 pm
Operator : BJG
Sample : CAL1
Misc : IS\SS 200-19208
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 20 14:56:32 2016
Quant Method : C:\msdchem\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.472	49	1897	0.31 ug/L	70
37) Tetrahydrofuran	4.514	42	240	0.97 ug/L #	33
38) Methacrylonitrile	4.477	41	1198m	2.01 ug/L	
39) Chloroform	4.682	83	3553	0.48 ug/L	99
40) Cyclohexane	4.976	56	3264	0.25 ug/L	94
41) Isobutyl Alcohol	5.783	43	7914m	0.33 ug/L	
43) 1,1,1-Trichloroethane	4.865	97	2287	0.25 ug/L #	28
45) Carbon tetrachloride	5.122	117	2911m	0.95 ug/L	
46) 1,1-Dichloropropene	5.164	75	3107	0.32 ug/L	76
47) 2,2,4-Trimethylpentane	5.741	57	4061	0.31 ug/L #	41
49) 1,2-Dichloroethane	5.641	62	2837	0.34 ug/L	67
50) Benzene	5.479	78	8573	0.31 ug/L	98
51) Tertiaryamylmethylether	5.809	73	7429	0.44 ug/L #	94
52) Heptane	6.134	43	1655	0.31 ug/L	88
53) Methylcyclohexane	6.999	83	2798	0.29 ug/L #	94
54) Trichloroethene	6.685	130	2131	0.30 ug/L	97
55) 1,2-Dichloropropane	7.088	63	2163	0.31 ug/L	90
56) Dibromomethane	7.214	93	1203	0.32 ug/L	93
57) Methyl methacrylate	7.298	41	334	1.09 ug/L #	67
58) 1,4-Dioxane	7.272	88	160m	71.90 ug/L	
59) Bromodichloromethane	7.508	83	1896	0.99 ug/L	96
60) 2-Nitropropane	7.828	43	225	1.09 ug/L #	1
61) cis-1,3-Dichloropropene	8.121	75	2003	1.18 ug/L	86
62) 2-Chloroethyl vinyl ether	7.985	63	304	0.90 ug/L #	61
64) 4-Methyl-2-pentanone	8.347	43	1819	1.07 ug/L	86
66) Toluene	8.509	91	9220	0.31 ug/L	96
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.876	75	1823	0.98 ug/L	70
69) Ethyl methacrylate	8.992	69	1291	0.92 ug/L	67
70) 1,1,2-Trichloroethane	9.086	97	1503	0.26 ug/L	96
71) Tetrachloroethene	9.123	166	2388	0.32 ug/L	91
72) 1,3-Dichloropropane	9.264	76	2986	0.29 ug/L	93
73) 2-Hexanone	9.411	43	1032	1.66 ug/L #	51
74) Chlorodibromomethane	9.506	129	1211	1.08 ug/L	89
75) Butyl acetate	9.568	43	3228	1.31 ug/L #	68
76) 1,2-Dibromoethane	9.616	107	1554	0.02 ug/L #	94
77) Chlorobenzene	10.171	112	5529	0.29 ug/L	93
78) 1,1,1,2-Tetrachloroethane	10.292	131	1264	0.64 ug/L	84
79) Ethylbenzene	10.308	91	9224	0.28 ug/L	99
80) m/p-Xylene	10.460	91	12994	0.30 ug/L	94
81) Styrene	10.900	104	5278	0.27 ug/L	86
82) o-Xylene	10.869	91	6749	0.28 ug/L	97
83) Bromoform	11.073	173	851	1.40 ug/L	69
84) Isopropylbenzene	11.278	105	7744	0.27 ug/L	95
86) Bromobenzene	11.571	77	3789	0.32 ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.634	83	1947	0.26 ug/L	95
88) 1,2,3-Trichloropropane	11.666	110	674	0.29 ug/L #	74
89) trans-1,4-Dichloro-2-b...	11.681	53	346	1.17 ug/L #	50
90) n-Propylbenzene	11.723	91	8815	0.28 ug/L	98
91) 2-Chlorotoluene	11.786	91	5818	0.29 ug/L	97
92) 4-Chlorotoluene	11.923	91	6436	0.29 ug/L	98
93) 1,3,5-Trimethylbenzene	11.923	105	5513	0.26 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP09.D
Acq On : 16 Sep 2016 4:11 pm
Operator : BJG
Sample : CAL1
Misc : IS\SS 200-19208
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 20 14:56:32 2016
Quant Method : C:\msdchem\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

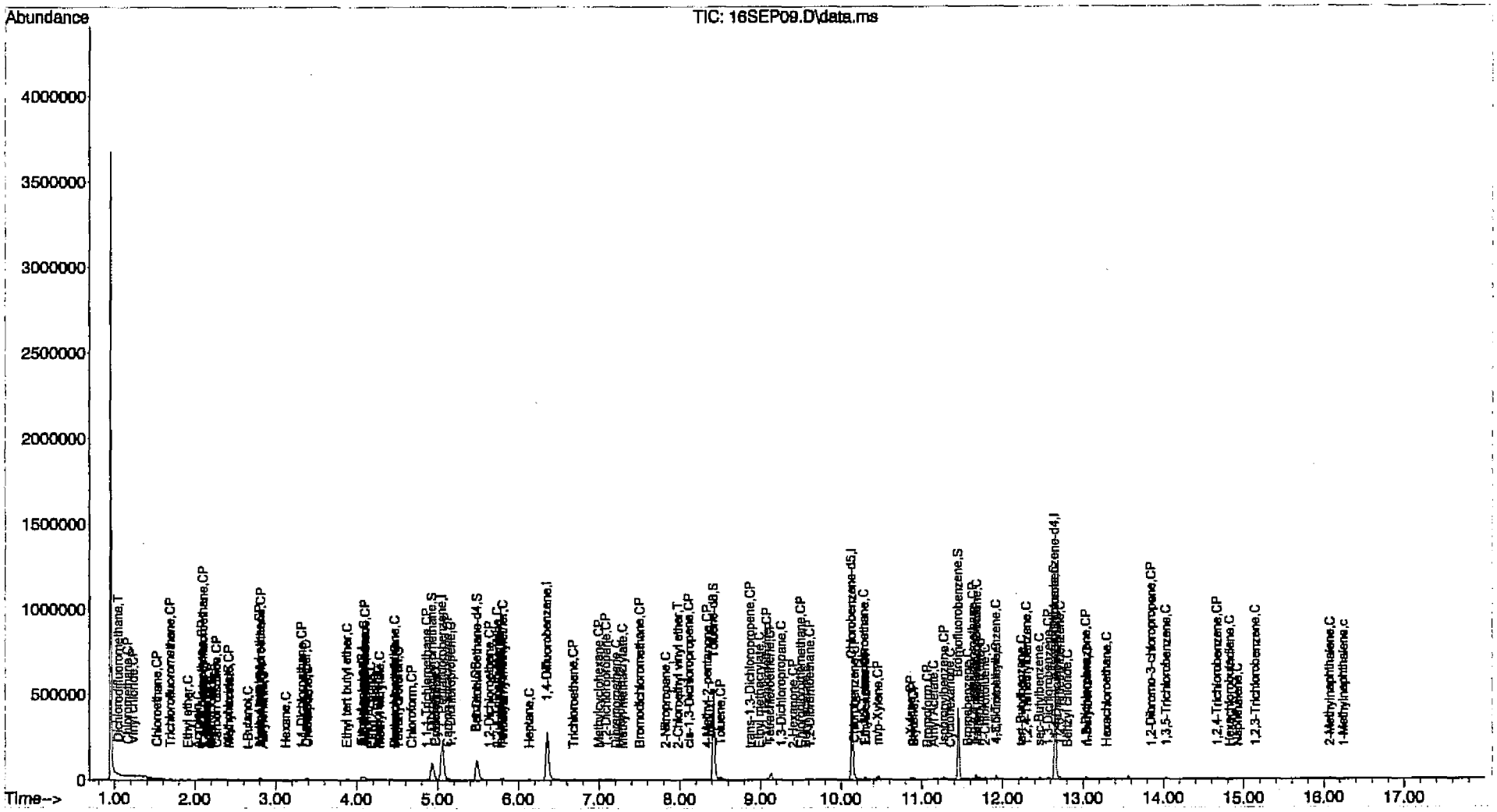
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	11.351	55	939	6.55 ug/L #	77
95)	tert-Butylbenzene	12.237	91	3070	0.28 ug/L	92
96)	Pentachloroethane	12.232	117	178	No Calib #	
97)	1,2,4-Trimethylbenzene	12.305	105	6027	0.28 ug/L	95
98)	sec-Butylbenzene	12.463	105	6118	0.26 ug/L	98
100)	1,3-Dichlorobenzene	12.573	146	3578	0.30 ug/L	97
101)	p-Isopropyltoluene	12.646	119	5557	0.27 ug/L	90
102)	1,4-Dichlorobenzene	12.678	146	3961	0.31 ug/L	84
103)	1,2,3-Trimethylbenzene	12.714	105	5630	0.26 ug/L	98
104)	Benzyl chloride	12.809	91	1654	2.07 ug/L #	84
105)	1,2-Dichlorobenzene	13.039	146	3667	0.32 ug/L	95
106)	n-Butylbenzene	13.055	91	4189	0.25 ug/L	99
107)	Hexachloroethane	13.296	117	333	1.27 ug/L #	51
108)	1,2-Dibromo-3-chloropr...	13.852	157	121	1.52 ug/L #	7
109)	1,3,5-Trichlorobenzene	14.036	180	1830	0.28 ug/L #	92
110)	1,2,4-Trichlorobenzene	14.670	180	1837	0.30 ug/L	88
111)	Hexachlorobutadiene	14.827	225	934	0.37 ug/L #	75
112)	Naphthalene	14.927	128	4411	0.74 ug/L #	94
113)	1,2,3-Trichlorobenzene	15.147	180	1531	0.27 ug/L	83
114)	2-Methylnaphthalene	16.075	142	1168	1.27 ug/L	97
115)	1-Methylnaphthalene	16.243	142	775	1.12 ug/L	82
117)	2-Propanone	2.150	43	3085m	1.62 ug/L	
118)	Acetic Ether	4.263	43	2592m	1.47 ug/L	
119)	Isopropyl Acetate	5.783	61	723m	0.71 ug/L	
120)	Amyl Acetate	11.152	43	3001	0.88 ug/L #	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP09.D
Acq On : 16 Sep 2016 4:11 pm
Operator : BJG
Sample : CAL1
Misc : IS\SS 200-19208
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 20 14:56:32 2016
Quant Method : C:\msdchem\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160916\
Data File : 16SEP10.D
Acq On : 16 Sep 2016 4:37 pm
Operator : BJG
Sample : CAL2
Misc : IS\SS 200-19208
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 20 14:57:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	205581	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	314965	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.140	117	290265	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	134674	20.00 ug/L	# 0.00
116) Ethyl Acetate-d8	4.063	46	37984	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.939	111	87147	19.07 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 95.35%		
48) 1,2-Dichloroethane-d4	5.495	65	106975	19.12 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 95.60%		
65) Toluene-d8	8.420	98	378999	19.60 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 98.00%		
85) Bromofluorobenzene	11.451	95	133797	19.45 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 97.25%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.054	85	4484	0.42 ug/L	98
3) Chloromethane	1.164	50	4015	0.36 ug/L	95
4) Vinyl chloride	1.237	62	4677	0.41 ug/L #	1
5) Bromomethane	1.447	94	1319	Below Cal	87
6) Chloroethane	1.526	64	10890	1.61 ug/L	66
7) Trichlorofluoromethane	1.699	101	5228	0.43 ug/L	94
8) Ethyl ether	1.914	59	2205	0.67 ug/L	94
9) Acrolein	2.039	56	122	0.11 ug/L	74
10) 1,1-Dichloroethene	2.092	61	3822	0.47 ug/L	97
11) 1,1,2-Trichlorotrifluo...	2.097	151	1920	0.35 ug/L	99
12) Methyl iodide	2.207	142	1468	1.37 ug/L	92
13) Acetone	2.144	43	2218	1.43 ug/L	82
14) Carbon disulfide	2.270	76	7476	0.39 ug/L	100
15) Allyl chloride	2.417	41	4125	0.39 ug/L	97
16) Methyl acetate	2.422	43	2221	1.44 ug/L #	87
17) Acetonitrile	2.815	41	2641	0.71 ug/L #	86
18) Methylene chloride	2.543	49	4208	Below Cal	96
19) t-Butanol	2.658	59	949	6.32 ug/L #	68
20) trans-1,2-Dichloroethene	2.821	61	3595	0.33 ug/L	99
21) Acrylonitrile	2.831	53	249	1.47 ug/L #	36
22) Methyl tert-butyl ether	2.810	73	10650	1.03 ug/L	96
23) Hexane	3.119	57	3151	0.35 ug/L	90
24) 1,1-Dichloroethane	3.313	63	5245	0.62 ug/L	93
25) Diisopropyl ether	3.382	45	11387	0.49 ug/L #	83
26) Vinyl acetate	3.387	86	144	1.14 ug/L #	1
27) Chloroprene	3.403	53	4253	0.34 ug/L	93
28) n-Butanol	3.890	56	774m	Below Cal	
29) Ethyl tert butyl ether	3.880	59	11198	0.52 ug/L	98
30) 2,2-Dichloropropane	4.089	77	3861	0.37 ug/L	93
31) cis-1,2-Dichloroethene	4.105	61	4867	0.39 ug/L	81
32) 2-Butanone	4.158	43	1641m	1.55 ug/L	
33) Ethyl Acetate	4.247	43	3304	1.56 ug/L #	72
34) Methyl acrylate	4.320	55	664	1.50 ug/L #	65
35) Propionitrile	4.955	54	58	Below Cal #	1

Data Path : H:\VMS6\6V160916\
Data File : 16SEP10.D
Acq On : 16 Sep 2016 4:37 pm
Operator : BJG
Sample : CAL2
Misc : IS\SS 200-19208
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 20 14:57:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.472	49	2301	0.37 ug/L	96
37) Tetrahydrofuran	4.530	42	279	0.98 ug/L	69
38) Methacrylonitrile	4.425	41	142	1.84 ug/L #	44
39) Chloroform	4.677	83	4878	0.57 ug/L	98
40) Cyclohexane	4.965	56	5175	0.38 ug/L #	89
41) Isobutyl Alcohol	5.783	43	5897	0.20 ug/L #	85
43) 1,1,1-Trichloroethane	4.886	97	3701	0.40 ug/L #	30
45) Carbon tetrachloride	5.091	117	4125m	1.08 ug/L	
46) 1,1-Dichloropropene	5.164	75	4884	0.49 ug/L	76
47) 2,2,4-Trimethylpentane	5.746	57	5779	0.43 ug/L #	32
49) 1,2-Dichloroethane	5.641	62	3797	0.44 ug/L	77
50) Benzene	5.484	78	11764	0.41 ug/L	94
51) Tertiaryamylmethylether	5.814	73	10379	0.60 ug/L #	90
52) Heptane	6.129	43	973	0.18 ug/L #	4
53) Methylcyclohexane	7.010	83	4082	0.42 ug/L #	93
54) Trichloroethene	6.700	130	2749	0.37 ug/L	87
55) 1,2-Dichloropropane	7.088	63	2705	0.38 ug/L #	74
56) Dibromomethane	7.214	93	1646	0.43 ug/L #	64
57) Methyl methacrylate	7.314	41	1376	1.25 ug/L #	55
58) 1,4-Dioxane	7.277	88	1617m	89.34 ug/L	
59) Bromodichloromethane	7.513	83	2787	1.09 ug/L	97
60) 2-Nitropropane	7.838	43	695	1.46 ug/L #	57
61) cis-1,3-Dichloropropene	8.132	75	3532	1.31 ug/L	84
62) 2-Chloroethyl vinyl ether	7.990	63	938m	1.03 ug/L	
64) 4-Methyl-2-pentanone	8.347	43	2365	1.14 ug/L	96
66) Toluene	8.504	91	13577	0.44 ug/L	98
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.882	75	2604m	1.05 ug/L	
69) Ethyl methacrylate	8.992	69	2690m	1.07 ug/L	
70) 1,1,2-Trichloroethane	9.097	97	2437	0.41 ug/L	92
71) Tetrachloroethene	9.118	166	3171	0.42 ug/L	98
72) 1,3-Dichloropropane	9.264	76	4140	0.40 ug/L	95
73) 2-Hexanone	9.411	43	1191m	1.69 ug/L	
74) Chlorodibromomethane	9.500	129	1554	1.13 ug/L	86
75) Butyl acetate	9.568	43	3693	1.34 ug/L #	53
76) 1,2-Dibromoethane	9.610	107	1911	0.08 ug/L #	89
77) Chlorobenzene	10.171	112	8563	0.44 ug/L	78
78) 1,1,1,2-Tetrachloroethane	10.297	131	2064	0.77 ug/L	88
79) Ethylbenzene	10.308	91	13183	0.39 ug/L	99
80) m/p-Xylene	10.460	91	20436	0.56 ug/L	99
81) Styrene	10.900	104	6669	0.33 ug/L	92
82) o-Xylene	10.869	91	9802	0.39 ug/L	97
83) Bromoform	11.078	173	1200	1.48 ug/L	88
84) Isopropylbenzene	11.272	105	11510	0.39 ug/L	99
86) Bromobenzene	11.571	77	5279	0.43 ug/L	95
87) 1,1,2,2-Tetrachloroethane	11.634	83	3151	0.41 ug/L	97
88) 1,2,3-Trichloropropane	11.681	110	958	0.41 ug/L	84
89) trans-1,4-Dichloro-2-b...	11.676	53	571	1.25 ug/L #	49
90) n-Propylbenzene	11.718	91	12551	0.39 ug/L	99
91) 2-Chlorotoluene	11.786	91	9178	0.45 ug/L	89
92) 4-Chlorotoluene	11.928	91	9237	0.41 ug/L	93
93) 1,3,5-Trimethylbenzene	11.917	105	8154	0.37 ug/L	98

Data Path : H:\VMS6\6V160916\
Data File : 16SEP10.D
Acq On : 16 Sep 2016 4:37 pm
Operator : BJG
Sample : CAL2
Misc : IS\SS 200-19208
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 20 14:57:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

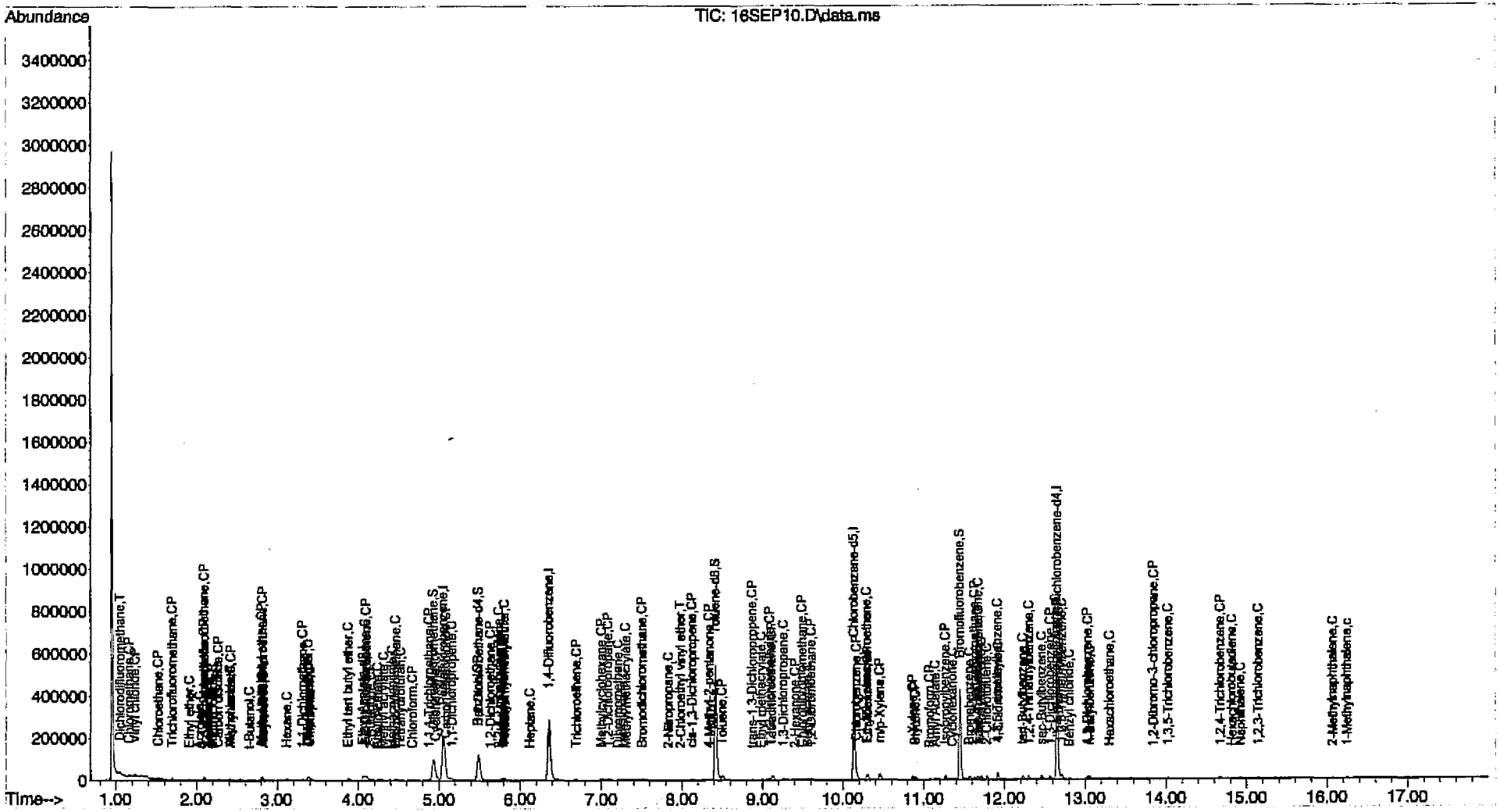
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
94)	Cyclohexanone	11.362	55	965	6.55 ug/L	#	76
95)	tert-Butylbenzene	12.232	91	4510	0.39 ug/L		94
96)	Pentachloroethane	12.227	117	269	No Calib	#	
97)	1,2,4-Trimethylbenzene	12.311	105	7436	0.34 ug/L		96
98)	sec-Butylbenzene	12.468	105	9694	0.39 ug/L		97
100)	1,3-Dichlorobenzene	12.573	146	5042	0.41 ug/L		99
101)	p-Isopropyltoluene	12.641	119	7351	0.36 ug/L		94
102)	1,4-Dichlorobenzene	12.678	146	5726	0.44 ug/L		97
103)	1,2,3-Trimethylbenzene	12.714	105	8065	0.38 ug/L		93
104)	Benzyl chloride	12.809	91	2385	2.13 ug/L	#	94
105)	1,2-Dichlorobenzene	13.034	146	4491	0.39 ug/L		90
106)	n-Butylbenzene	13.060	91	5946	0.34 ug/L		97
107)	Hexachloroethane	13.307	117	770	1.42 ug/L		86
108)	1,2-Dibromo-3-chloropr...	13.847	157	294	1.63 ug/L	#	22
109)	1,3,5-Trichlorobenzene	14.030	180	2398	0.37 ug/L		89
110)	1,2,4-Trichlorobenzene	14.675	180	2343	0.38 ug/L		96
111)	Hexachlorobutadiene	14.822	225	1097	0.42 ug/L	#	85
112)	Naphthalene	14.927	128	6331	0.82 ug/L		98
113)	1,2,3-Trichlorobenzene	15.147	180	2117	0.38 ug/L		92
114)	2-Methylnaphthalene	16.070	142	1473	1.31 ug/L		90
115)	1-Methylnaphthalene	16.248	142	1221	1.20 ug/L		93
117)	2-Propanone	2.144	43	2218	0.62 ug/L	#	82
118)	Acetic Ether	4.247	43	3304	1.54 ug/L	#	69
119)	Isopropyl Acetate	5.799	61	893m	0.74 ug/L		
120)	Amyl Acetate	11.152	43	3753	0.92 ug/L	#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP10.D
Acq On : 16 Sep 2016 4:37 pm
Operator : BJG
Sample : CAL2
Misc : IS\SS 200-19208
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 20 14:57:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160916\
Data File : 16SEP11.D
Acq On : 16 Sep 2016 5:03 pm
Operator : BJG
Sample : CAL3
Misc : 200-19362 20PPB
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 08:46:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	203301	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	309416	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.140	117	286557	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	137029	20.00 ug/L	# 0.00
116) Ethyl Acetate-d8	4.074	46	30413	20.00 ug/L	# 0.01
System Monitoring Compounds					
44) Dibromofluoromethane	4.939	111	85132	18.97 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 94.85%		
48) 1,2-Dichloroethane-d4	5.489	65	105596	19.21 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.05%		
65) Toluene-d8	8.420	98	375678	19.68 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 98.40%		
85) Bromofluorobenzene	11.451	95	133197	19.61 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 98.05%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.054	85	15203	1.45 ug/L	99
3) Chloromethane	1.164	50	12699	1.14 ug/L	99
4) Vinyl chloride	1.237	62	15138	1.36 ug/L #	1
5) Bromomethane	1.452	94	3892	0.35 ug/L	98
6) Chloroethane	1.526	64	10644	1.59 ug/L	98
7) Trichlorofluoromethane	1.699	101	16489	1.37 ug/L	98
8) Ethyl ether	1.914	59	8735	1.64 ug/L	97
9) Acrolein	2.029	56	647	1.63 ug/L	68
10) 1,1-Dichloroethene	2.092	61	13875	1.35 ug/L	98
11) 1,1,2-Trichlorotrifluo...	2.102	151	6812	1.27 ug/L	93
12) Methyl iodide	2.212	142	6611	2.26 ug/L	98
13) Acetone	2.144	43	3758	2.18 ug/L	90
14) Carbon disulfide	2.270	76	22995	1.20 ug/L	100
15) Allyl chloride	2.412	41	12652	1.20 ug/L	87
16) Methyl acetate	2.422	43	6971	2.26 ug/L	94
17) Acetonitrile	2.810	41	7313	1.73 ug/L #	90
18) Methylene chloride	2.543	49	13705	0.47 ug/L	95
19) t-Butanol	2.663	59	3142	9.26 ug/L #	92
20) trans-1,2-Dichloroethene	2.821	61	14032	1.31 ug/L	98
21) Acrylonitrile	2.800	53	2638m	2.22 ug/L	
22) Methyl tert-butyl ether	2.805	73	29863	1.89 ug/L	100
23) Hexane	3.125	57	11826	1.31 ug/L	99
24) 1,1-Dichloroethane	3.313	63	18032	1.49 ug/L	99
25) Diisopropyl ether	3.382	45	33209	1.45 ug/L #	70
26) Vinyl acetate	3.366	86	1525	2.03 ug/L #	1
27) Chloroprene	3.397	53	15030	1.23 ug/L	97
28) n-Butanol	3.885	56	2103	9.50 ug/L #	91
29) Ethyl tert butyl ether	3.890	59	31784	1.48 ug/L	99
30) 2,2-Dichloropropane	4.095	77	13621	1.32 ug/L	98
31) cis-1,2-Dichloroethene	4.110	61	16838	1.36 ug/L	96
32) 2-Butanone	4.184	43	380	1.18 ug/L	85
33) Ethyl Acetate	4.241	43	5916	1.92 ug/L	93
34) Methyl acrylate	4.289	55	1705	1.64 ug/L #	84
35) Propionitrile	4.965	54	866	0.71 ug/L #	46

Data Path : H:\VMS6\6V160916\
Data File : 16SEP11.D
Acq On : 16 Sep 2016 5:03 pm
Operator : BJG
Sample : CAL3
Misc : 200-19362 20PPB
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 08:46:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.472	49	8424	1.38 ug/L	96
37) Tetrahydrofuran	4.519	42	2871m	2.00 ug/L	
38) Methacrylonitrile	4.467	41	3570	2.39 ug/L #	77
39) Chloroform	4.677	83	16903	1.41 ug/L	99
40) Cyclohexane	4.975	56	17065	1.27 ug/L	99
41) Isobutyl Alcohol	5.767	43	17471	0.88 ug/L #	86
43) 1,1,1-Trichloroethane	4.876	97	12544	1.37 ug/L	94
45) Carbon tetrachloride	5.128	117	10304	1.83 ug/L	95
46) 1,1-Dichloropropene	5.169	75	12872	1.33 ug/L	97
47) 2,2,4-Trimethylpentane	5.746	57	19556	1.47 ug/L	91
49) 1,2-Dichloroethane	5.636	62	13648	1.63 ug/L	95
50) Benzene	5.479	78	42881	1.52 ug/L	98
51) Tertiaryamylmethylether	5.814	73	27993	1.66 ug/L #	93
52) Heptane	6.139	43	8435	1.57 ug/L #	79
53) Methylcyclohexane	7.015	83	13898	1.45 ug/L	97
54) Trichloroethene	6.690	130	11163	1.54 ug/L	96
55) 1,2-Dichloropropane	7.094	63	10764	1.56 ug/L	92
56) Dibromomethane	7.214	93	6225	1.66 ug/L	95
57) Methyl methacrylate	7.298	41	7400	2.23 ug/L	88
58) 1,4-Dioxane	7.251	88	5645m	138.91 ug/L	
59) Bromodichloromethane	7.518	83	10963	2.04 ug/L	99
60) 2-Nitropropane	7.828	43	1897	2.43 ug/L #	87
61) cis-1,3-Dichloropropene	8.116	75	13142	2.15 ug/L	96
62) 2-Chloroethyl vinyl ether	7.980	63	5477	2.03 ug/L	91
64) 4-Methyl-2-pentanone	8.347	43	7789	2.01 ug/L	96
66) Toluene	8.509	91	46395	1.52 ug/L	99
67) Chloropicrin	8.845	117	4743	14.82 ug/L	96
68) trans-1,3-Dichloropropene	8.866	75	10363	1.81 ug/L	82
69) Ethyl methacrylate	8.986	69	10205	1.87 ug/L	99
70) 1,1,2-Trichloroethane	9.086	97	9329	1.59 ug/L	98
71) Tetrachloroethene	9.123	166	11748	1.56 ug/L	100
72) 1,3-Dichloropropane	9.259	76	16205	1.57 ug/L	99
73) 2-Hexanone	9.390	43	3361	2.18 ug/L	85
74) Chlorodibromomethane	9.500	129	6983	1.94 ug/L	99
75) Butyl acetate	9.563	43	13663	2.30 ug/L	93
76) 1,2-Dibromoethane	9.605	107	8580	1.23 ug/L #	98
77) Chlorobenzene	10.171	112	30143	1.56 ug/L	91
78) 1,1,1,2-Tetrachloroethane	10.292	131	7603	1.67 ug/L	92
79) Ethylbenzene	10.302	91	49943	1.52 ug/L	99
80) m/p-Xylene	10.465	91	74224	2.56 ug/L	100
81) Styrene	10.895	104	28055	1.42 ug/L	97
82) o-Xylene	10.863	91	37736	1.52 ug/L	100
83) Bromoform	11.073	173	4032	2.21 ug/L	98
84) Isopropylbenzene	11.272	105	44526	1.54 ug/L	99
86) Bromobenzene	11.571	77	18296	1.52 ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.629	83	11924	1.57 ug/L	100
88) 1,2,3-Trichloropropane	11.671	110	3729	1.60 ug/L	96
89) trans-1,4-Dichloro-2-b...	11.671	53	2398	1.97 ug/L	82
90) n-Propylbenzene	11.718	91	48654	1.52 ug/L	99
91) 2-Chlorotoluene	11.786	91	31072	1.54 ug/L	100
92) 4-Chlorotoluene	11.922	91	33587	1.51 ug/L	98
93) 1,3,5-Trimethylbenzene	11.922	105	31180	1.44 ug/L	99

Data Path : H:\VMS6\6V160916\
Data File : 16SEP11.D
Acq On : 16 Sep 2016 5:03 pm
Operator : BJG
Sample : CAL3
Misc : 200-19362 20PPB
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 08:46:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

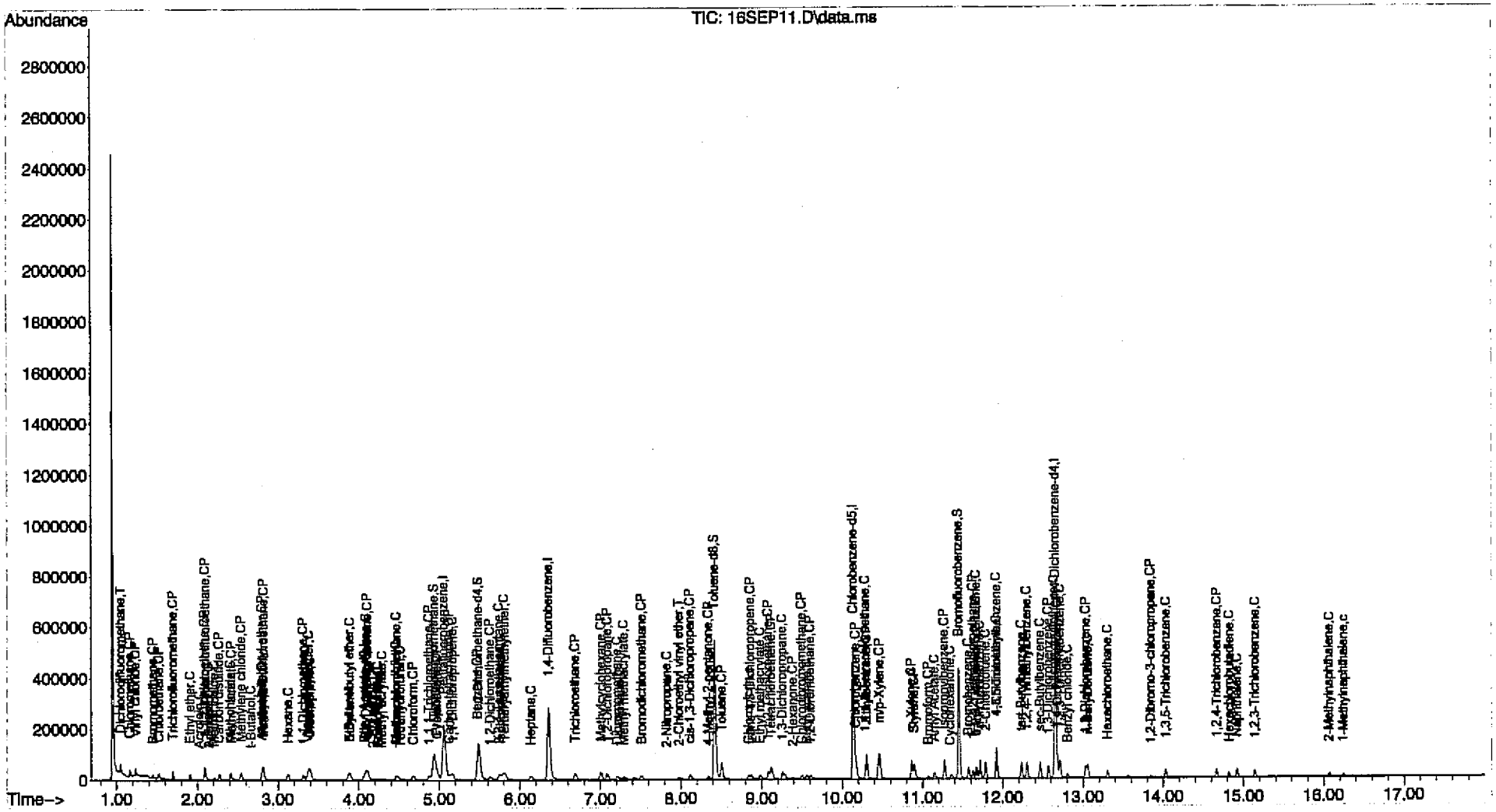
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	11.346	55	1403	8.23 ug/L #	30
95)	tert-Butylbenzene	12.237	91	17009	1.51 ug/L	97
96)	Pentachloroethane	12.237	117	1054	No Calib #	
97)	1,2,4-Trimethylbenzene	12.300	105	31921	1.47 ug/L	100
98)	sec-Butylbenzene	12.468	105	34830	1.44 ug/L	98
100)	1,3-Dichlorobenzene	12.567	146	19007	1.53 ug/L	98
101)	p-Isopropyltoluene	12.641	119	29684	1.41 ug/L	96
102)	1,4-Dichlorobenzene	12.683	146	21105	1.60 ug/L	96
103)	1,2,3-Trimethylbenzene	12.714	105	33049	1.51 ug/L	100
104)	Benzyl chloride	12.809	91	9849	2.68 ug/L	98
105)	1,2-Dichlorobenzene	13.034	146	18416	1.57 ug/L	100
106)	n-Butylbenzene	13.060	91	23884	1.36 ug/L	98
107)	Hexachloroethane	13.307	117	2870	2.12 ug/L	99
108)	1,2-Dibromo-3-chloropr...	13.847	157	1474	2.31 ug/L	98
109)	1,3,5-Trichlorobenzene	14.035	180	9443	1.42 ug/L	93
110)	1,2,4-Trichlorobenzene	14.670	180	8749	1.40 ug/L	99
111)	Hexachlorobutadiene	14.827	225	3739	1.42 ug/L	87
112)	Naphthalene	14.922	128	24270	1.63 ug/L	99
113)	1,2,3-Trichlorobenzene	15.142	180	7623	1.33 ug/L	97
114)	2-Methylnaphthalene	16.064	142	6377	1.92 ug/L	98
115)	1-Methylnaphthalene	16.243	142	4841	1.80 ug/L	90
117)	2-Propanone	2.144	43	3758	2.52 ug/L	90
118)	Acetic Ether	4.241	43	8218m	3.00 ug/L	
119)	Isopropyl Acetate	5.767	61	2673	2.06 ug/L #	86
120)	Amyl Acetate	11.152	43	13454	2.33 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP11.D
Acq On : 16 Sep 2016 5:03 pm
Operator : BJG
Sample : CAL3
Misc : 200-19362 20PPB
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 08:46:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160916\
Data File : 16SEP12.D
Acq On : 16 Sep 2016 5:29 pm
Operator : BJG
Sample : CAL4
Misc : 200-19362 20PPB
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 08:48:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.060	168	205739	20.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.360	114	312973	20.00	ug/L		0.00
63) Chlorobenzene-d5	10.140	117	292809	20.00	ug/L		0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	138368	20.00	ug/L	#	0.00
116) Ethyl Acetate-d8	4.069	46	31659	20.00	ug/L	#	0.00
System Monitoring Compounds							
44) Dibromofluoromethane	4.934	111	86544	19.06	ug/L		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 95.30%				
48) 1,2-Dichloroethane-d4	5.489	65	107450	19.32	ug/L		0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.60%				
65) Toluene-d8	8.420	98	380982	19.54	ug/L		0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 97.70%				
85) Bromofluorobenzene	11.451	95	136074	19.60	ug/L		0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 98.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.049	85	29039	2.75	ug/L		100
3) Chloromethane	1.164	50	24899	2.21	ug/L		96
4) Vinyl chloride	1.232	62	28827	2.56	ug/L	#	1
5) Bromomethane	1.447	94	8074	1.52	ug/L		96
6) Chloroethane	1.521	64	26266	3.89	ug/L		85
7) Trichlorofluoromethane	1.699	101	33127	2.72	ug/L		97
8) Ethyl ether	1.908	59	17759	2.94	ug/L		100
9) Acrolein	2.029	56	992	2.58	ug/L		75
10) 1,1-Dichloroethene	2.092	61	28661	2.60	ug/L		98
11) 1,1,2-Trichlorotrifluo...	2.102	151	13758	2.54	ug/L		96
12) Methyl iodide	2.213	142	15834	3.82	ug/L		98
13) Acetone	2.144	43	6465	3.45	ug/L		94
14) Carbon disulfide	2.270	76	49790	2.57	ug/L		99
15) Allyl chloride	2.417	41	28039	2.63	ug/L		92
16) Methyl acetate	2.417	43	14017	3.42	ug/L		99
17) Acetonitrile	2.805	41	13582	3.05	ug/L	#	82
18) Methylene chloride	2.538	49	28764	1.90	ug/L		98
19) t-Butanol	2.658	59	6531	13.69	ug/L	#	70
20) trans-1,2-Dichloroethene	2.816	61	29231	2.69	ug/L		99
21) Acrylonitrile	2.805	53	5085	2.97	ug/L		89
22) Methyl tert-butyl ether	2.805	73	58120	3.13	ug/L		99
23) Hexane	3.125	57	24160	2.64	ug/L		96
24) 1,1-Dichloroethane	3.314	63	38634	2.87	ug/L		99
25) Diisopropyl ether	3.382	45	67360	2.90	ug/L	#	64
26) Vinyl acetate	3.356	86	2834	2.85	ug/L	#	1
27) Chloroprene	3.398	53	32342	2.61	ug/L		99
28) n-Butanol	3.880	56	4270	25.22	ug/L	#	95
29) Ethyl tert butyl ether	3.885	59	62201	2.87	ug/L		97
30) 2,2-Dichloropropane	4.095	77	27752	2.65	ug/L		96
31) cis-1,2-Dichloroethene	4.105	61	35048	2.80	ug/L		99
32) 2-Butanone	4.137	43	7686m	3.35	ug/L		
33) Ethyl Acetate	4.242	43	20437m	3.83	ug/L		
34) Methyl acrylate	4.284	55	12499m	3.05	ug/L		
35) Propionitrile	4.986	54	2898m	2.73	ug/L		

Data Path : H:\VMS6\6V160916\
Data File : 16SEP12.D
Acq On : 16 Sep 2016 5:29 pm
Operator : BJG
Sample : CAL4
Misc : 200-19362 20PPB
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 08:48:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	4.467	49	17622	2.85 ug/L		96
37) Tetrahydrofuran	4.509	42	6013m	3.20 ug/L		
38) Methacrylonitrile	4.457	41	9652	3.34 ug/L	#	87
39) Chloroform	4.677	83	37334	2.80 ug/L		99
40) Cyclohexane	4.970	56	35714	2.64 ug/L		98
41) Isobutyl Alcohol	5.762	43	55515	3.06 ug/L	#	85
43) 1,1,1-Trichloroethane	4.876	97	28947	3.12 ug/L		98
45) Carbon tetrachloride	5.128	117	22136	3.21 ug/L		94
46) 1,1-Dichloropropene	5.170	75	29072	2.96 ug/L		99
47) 2,2,4-Trimethylpentane	5.746	57	41445	3.09 ug/L	#	79
49) 1,2-Dichloroethane	5.631	62	27655	3.26 ug/L		98
50) Benzene	5.479	78	93676	3.29 ug/L		99
51) Tertiaryamylmethylether	5.809	73	56395	3.30 ug/L	#	95
52) Heptane	6.140	43	16239	3.00 ug/L		97
53) Methylcyclohexane	7.010	83	30400	3.14 ug/L		97
54) Trichloroethene	6.690	130	23743	3.24 ug/L		99
55) 1,2-Dichloropropane	7.089	63	23093	3.30 ug/L		94
56) Dibromomethane	7.209	93	12976	3.42 ug/L		100
57) Methyl methacrylate	7.293	41	16525	3.66 ug/L		92
58) 1,4-Dioxane	7.246	88	14142m	240.79 ug/L		
59) Bromodichloromethane	7.513	83	23915	3.52 ug/L		97
60) 2-Nitropropane	7.828	43	3363	3.57 ug/L	#	88
61) cis-1,3-Dichloropropene	8.116	75	28873	3.48 ug/L		98
62) 2-Chloroethyl vinyl ether	7.969	63	12524	3.55 ug/L		95
64) 4-Methyl-2-pentanone	8.342	43	16287	3.31 ug/L		96
66) Toluene	8.509	91	102481	3.29 ug/L		99
67) Chloropicrin	8.840	117	18626	24.18 ug/L		98
68) trans-1,3-Dichloropropene	8.871	75	23886	3.07 ug/L		95
69) Ethyl methacrylate	8.981	69	23566	3.24 ug/L		96
70) 1,1,2-Trichloroethane	9.086	97	19930	3.33 ug/L		99
71) Tetrachloroethene	9.123	166	25278	3.29 ug/L		99
72) 1,3-Dichloropropane	9.259	76	36027	3.42 ug/L		97
73) 2-Hexanone	9.375	43	11186	3.91 ug/L		91
74) Chlorodibromomethane	9.500	129	15620	3.19 ug/L		99
75) Butyl acetate	9.558	43	25847	3.40 ug/L		95
76) 1,2-Dibromoethane	9.605	107	18247	2.84 ug/L		98
77) Chlorobenzene	10.172	112	65906	3.33 ug/L		97
78) 1,1,1,2-Tetrachloroethane	10.292	131	17098	3.15 ug/L		99
79) Ethylbenzene	10.303	91	110149	3.27 ug/L		99
80) m/p-Xylene	10.460	91	167474	5.87 ug/L		99
81) Styrene	10.895	104	63530	3.16 ug/L		86
82) o-Xylene	10.864	91	83071	3.27 ug/L		99
83) Bromoform	11.073	173	8453	3.30 ug/L		93
84) Isopropylbenzene	11.273	105	99659	3.37 ug/L		99
86) Bromobenzene	11.571	77	39936	3.25 ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.629	83	26123	3.36 ug/L		98
88) 1,2,3-Trichloropropane	11.671	110	8073	3.39 ug/L		94
89) trans-1,4-Dichloro-2-b...	11.671	53	5908	3.29 ug/L		85
90) n-Propylbenzene	11.718	91	108208	3.32 ug/L		99
91) 2-Chlorotoluene	11.786	91	68876	3.34 ug/L		99
92) 4-Chlorotoluene	11.923	91	76779	3.37 ug/L		100
93) 1,3,5-Trimethylbenzene	11.917	105	71046	3.22 ug/L		99

Data Path : H:\VMS6\6V160916\
Data File : 16SEP12.D
Acq On : 16 Sep 2016 5:29 pm
Operator : BJG
Sample : CAL4
Misc : 200-19362 20PPB
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 08:48:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

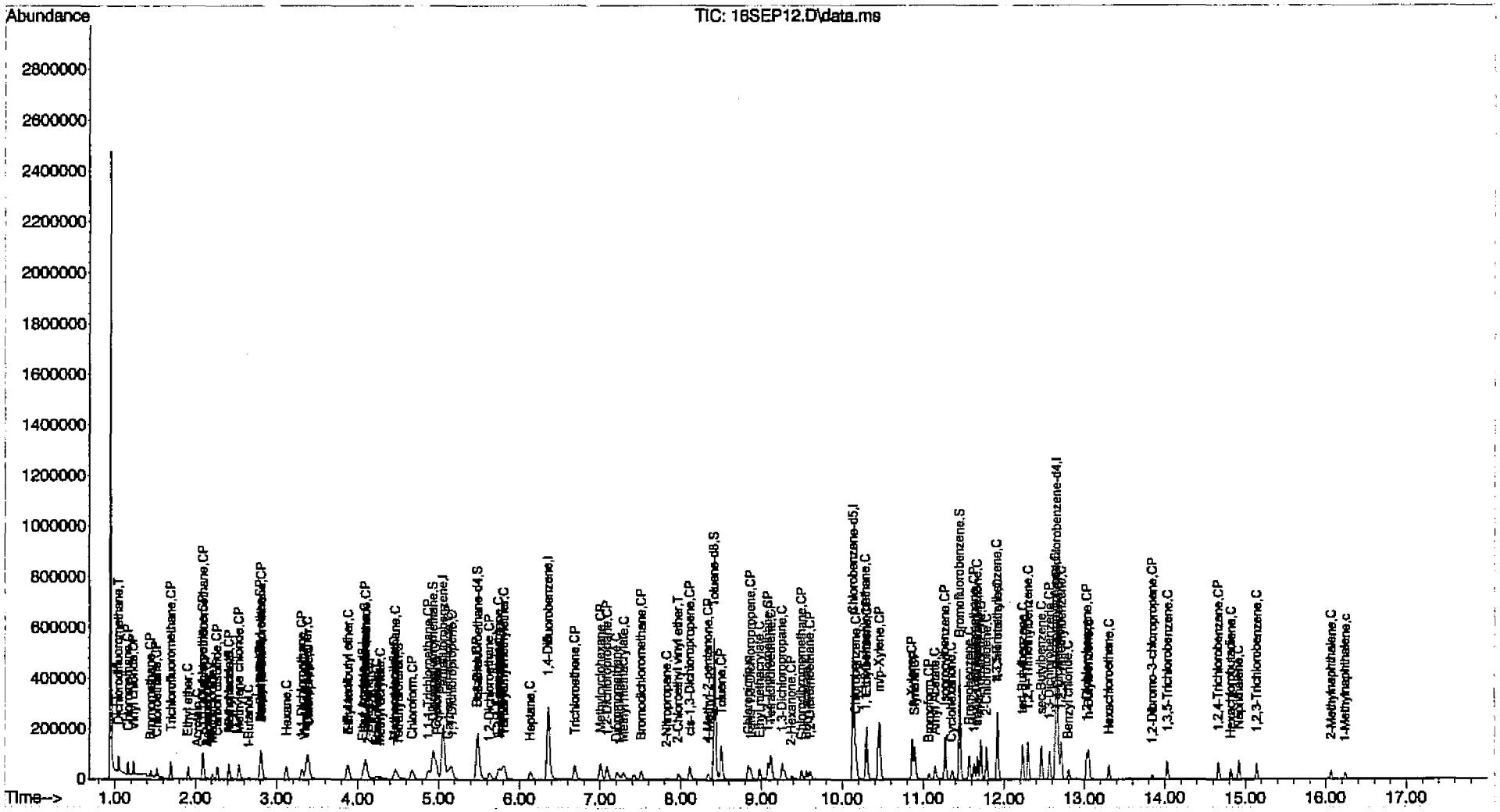
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	11.351	55	2895	13.59 ug/L #	91
95)	tert-Butylbenzene	12.232	91	37943	3.29 ug/L	99
96)	Pentachloroethane	12.237	117	2105	No Calib #	
97)	1,2,4-Trimethylbenzene	12.300	105	70830	3.20 ug/L	98
98)	sec-Butylbenzene	12.468	105	81708	3.30 ug/L	100
100)	1,3-Dichlorobenzene	12.568	146	42306	3.37 ug/L	98
101)	p-Isopropyltoluene	12.641	119	66759	3.14 ug/L	98
102)	1,4-Dichlorobenzene	12.678	146	44384	3.34 ug/L	96
103)	1,2,3-Trimethylbenzene	12.714	105	72791	3.30 ug/L	100
104)	Benzyl chloride	12.804	91	23025	3.64 ug/L	97
105)	1,2-Dichlorobenzene	13.034	146	39368	3.33 ug/L	97
106)	n-Butylbenzene	13.055	91	53041	2.99 ug/L	99
107)	Hexachloroethane	13.307	117	5980	3.14 ug/L	95
108)	1,2-Dibromo-3-chloropr...	13.847	157	3484	3.47 ug/L	92
109)	1,3,5-Trichlorobenzene	14.036	180	20303	3.02 ug/L	97
110)	1,2,4-Trichlorobenzene	14.665	180	18530	2.94 ug/L	97
111)	Hexachlorobutadiene	14.822	225	7054	2.65 ug/L	94
112)	Naphthalene	14.922	128	53510	2.92 ug/L	100
113)	1,2,3-Trichlorobenzene	15.142	180	16951	2.93 ug/L	95
114)	2-Methylnaphthalene	16.070	142	14412	2.90 ug/L	99
115)	1-Methylnaphthalene	16.243	142	10908	2.79 ug/L	100
117)	2-Propanone	2.144	43	6465	4.88 ug/L	94
118)	Acetic Ether	4.242	43	12230	3.93 ug/L #	86
119)	Isopropyl Acetate	5.767	61	6895	4.73 ug/L #	56
120)	Amyl Acetate	11.147	43	28612	4.22 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP12.D
Acq On : 16 Sep 2016 5:29 pm
Operator : BJG
Sample : CAL4
Misc : 200-19362 20PPB
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 08:48:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160916\
Data File : 16SEP13.D
Acq On : 16 Sep 2016 5:55 pm
Operator : BJG
Sample : CAL5
Misc : 200-19362 20PPB
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 08:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	204038	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	309943	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.140	117	286653	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	135634	20.00 ug/L	# 0.00
116) Ethyl Acetate-d8	4.063	46	35698	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.934	111	86803	19.30 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 96.50%		
48) 1,2-Dichloroethane-d4	5.489	65	105808	19.22 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.10%		
65) Toluene-d8	8.420	98	375316	19.66 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 98.30%		
85) Bromofluorobenzene	11.451	95	134519	19.80 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 99.00%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.054	85	70478	6.72 ug/L	99
3) Chloromethane	1.164	50	65397	5.87 ug/L	99
4) Vinyl chloride	1.237	62	72229	6.46 ug/L	51
5) Bromomethane	1.447	94	19528	4.79 ug/L	99
6) Chloroethane	1.526	64	51383	7.66 ug/L	95
7) Trichlorofluoromethane	1.699	101	77933	6.45 ug/L	98
8) Ethyl ether	1.908	59	46508	7.18 ug/L	97
9) Acrolein	2.024	56	2849	7.65 ug/L	83
10) 1,1-Dichloroethene	2.092	61	78165	6.89 ug/L	98
11) 1,1,2-Trichlorotrifluo...	2.102	151	38380	7.14 ug/L	99
12) Methyl iodide	2.212	142	46172	9.18 ug/L	97
13) Acetone	2.139	43	15922	8.02 ug/L	96
14) Carbon disulfide	2.270	76	133673	6.95 ug/L	100
15) Allyl chloride	2.412	41	76555	7.24 ug/L	98
16) Methyl acetate	2.417	43	39178	7.70 ug/L	99
17) Acetonitrile	2.805	41	34505	7.57 ug/L	96
18) Methylene chloride	2.538	49	72618	6.15 ug/L	97
19) t-Butanol	2.653	59	16179	26.60 ug/L	95
20) trans-1,2-Dichloroethene	2.815	61	80026	7.42 ug/L	99
21) Acrylonitrile	2.789	53	16454	6.53 ug/L	95
22) Methyl tert-butyl ether	2.805	73	157693	7.58 ug/L	100
23) Hexane	3.120	57	66381	7.33 ug/L	99
24) 1,1-Dichloroethane	3.314	63	100488	7.09 ug/L	99
25) Diisopropyl ether	3.376	45	181483	7.88 ug/L #	59
26) Vinyl acetate	3.345	86	10295	7.59 ug/L #	1
27) Chloroprene	3.397	53	88147	7.18 ug/L	99
28) n-Butanol	3.875	56	11297	77.49 ug/L #	92
29) Ethyl tert butyl ether	3.885	59	173624	8.08 ug/L	99
30) 2,2-Dichloropropane	4.095	77	74443	7.18 ug/L	99
31) cis-1,2-Dichloroethene	4.100	61	91511	7.36 ug/L	98
32) 2-Butanone	4.131	43	19090	6.80 ug/L	84
33) Ethyl Acetate	4.226	43	43353	6.90 ug/L	97
34) Methyl acrylate	4.278	55	37406	6.35 ug/L	98
35) Propionitrile	4.976	54	7290	7.16 ug/L #	84

Data Path : H:\VMS6\6V160916\
Data File : 16SEP13.D
Acq On : 16 Sep 2016 5:55 pm
Operator : BJG
Sample : CAL5
Misc : 200-19362 20PPB
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 08:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.467	49	46884	7.65	ug/L		97
37) Tetrahydrofuran	4.504	42	13055	5.98	ug/L		85
38) Methacrylonitrile	4.451	41	36339	7.60	ug/L		96
39) Chloroform	4.671	83	99737	7.16	ug/L		99
40) Cyclohexane	4.976	56	96168	7.16	ug/L		99
41) Isobutyl Alcohol	5.757	43	157601	9.02	ug/L	#	85
43) 1,1,1-Trichloroethane	4.886	97	78630	8.57	ug/L		100
45) Carbon tetrachloride	5.128	117	59797	7.72	ug/L		95
46) 1,1-Dichloropropene	5.159	75	77226	7.95	ug/L		98
47) 2,2,4-Trimethylpentane	5.746	57	107593	8.10	ug/L	#	70
49) 1,2-Dichloroethane	5.631	62	71508	8.51	ug/L		99
50) Benzene	5.479	78	247095	8.76	ug/L		99
51) Tertiaryamylmethylether	5.809	73	157680	9.31	ug/L	#	98
52) Heptane	6.140	43	41809	7.79	ug/L		96
53) Methylcyclohexane	7.010	83	80697	8.41	ug/L		98
54) Trichloroethene	6.690	130	61939	8.54	ug/L		99
55) 1,2-Dichloropropane	7.089	63	60189	8.69	ug/L		98
56) Dibromomethane	7.209	93	33743	8.98	ug/L		99
57) Methyl methacrylate	7.288	41	43318	7.99	ug/L		99
58) 1,4-Dioxane	7.241	88	34964m	496.48	ug/L		
59) Bromodichloromethane	7.508	83	60913	7.85	ug/L		99
60) 2-Nitropropane	7.823	43	8812	7.83	ug/L	#	90
61) cis-1,3-Dichloropropene	8.111	75	81803	8.10	ug/L		100
62) 2-Chloroethyl vinyl ether	7.969	63	34214	8.32	ug/L		99
64) 4-Methyl-2-pentanone	8.336	43	45470	8.02	ug/L		98
66) Toluene	8.504	91	270086	8.85	ug/L		100
67) Chloropicrin	8.840	117	68507	57.53	ug/L		99
68) trans-1,3-Dichloropropene	8.866	75	71309	7.72	ug/L		96
69) Ethyl methacrylate	8.981	69	67369	7.96	ug/L		99
70) 1,1,2-Trichloroethane	9.086	97	51013	8.70	ug/L		99
71) Tetrachloroethene	9.118	166	67068	8.92	ug/L		99
72) 1,3-Dichloropropane	9.259	76	92457	8.96	ug/L		97
73) 2-Hexanone	9.374	43	30665	8.38	ug/L		98
74) Chlorodibromomethane	9.500	129	46729	7.89	ug/L		97
75) Butyl acetate	9.553	43	80017	8.60	ug/L		99
76) 1,2-Dibromoethane	9.605	107	48681	8.16	ug/L		98
77) Chlorobenzene	10.171	112	171520	8.86	ug/L		99
78) 1,1,1,2-Tetrachloroethane	10.297	131	47424	8.11	ug/L		100
79) Ethylbenzene	10.303	91	297459	9.02	ug/L		99
80) m/p-Xylene	10.460	91	446994	16.32	ug/L		100
81) Styrene	10.895	104	173938	8.83	ug/L		100
82) o-Xylene	10.864	91	221493	8.92	ug/L		99
83) Bromoform	11.073	173	26037	7.83	ug/L		97
84) Isopropylbenzene	11.272	105	266659	9.21	ug/L		100
86) Bromobenzene	11.571	77	105036	8.72	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.629	83	69496	9.14	ug/L		100
88) 1,2,3-Trichloropropane	11.671	110	20211	8.66	ug/L		96
89) trans-1,4-Dichloro-2-b...	11.671	53	16478	7.46	ug/L		90
90) n-Propylbenzene	11.718	91	295119	9.24	ug/L		99
91) 2-Chlorotoluene	11.786	91	179504	8.90	ug/L		99
92) 4-Chlorotoluene	11.923	91	202927	9.10	ug/L		99
93) 1,3,5-Trimethylbenzene	11.923	105	192329	8.89	ug/L		99

Data Path : H:\VMS6\6V160916\
Data File : 16SEP13.D
Acq On : 16 Sep 2016 5:55 pm
Operator : BJG
Sample : CAL5
Misc : 200-19362 20PPB
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 08:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

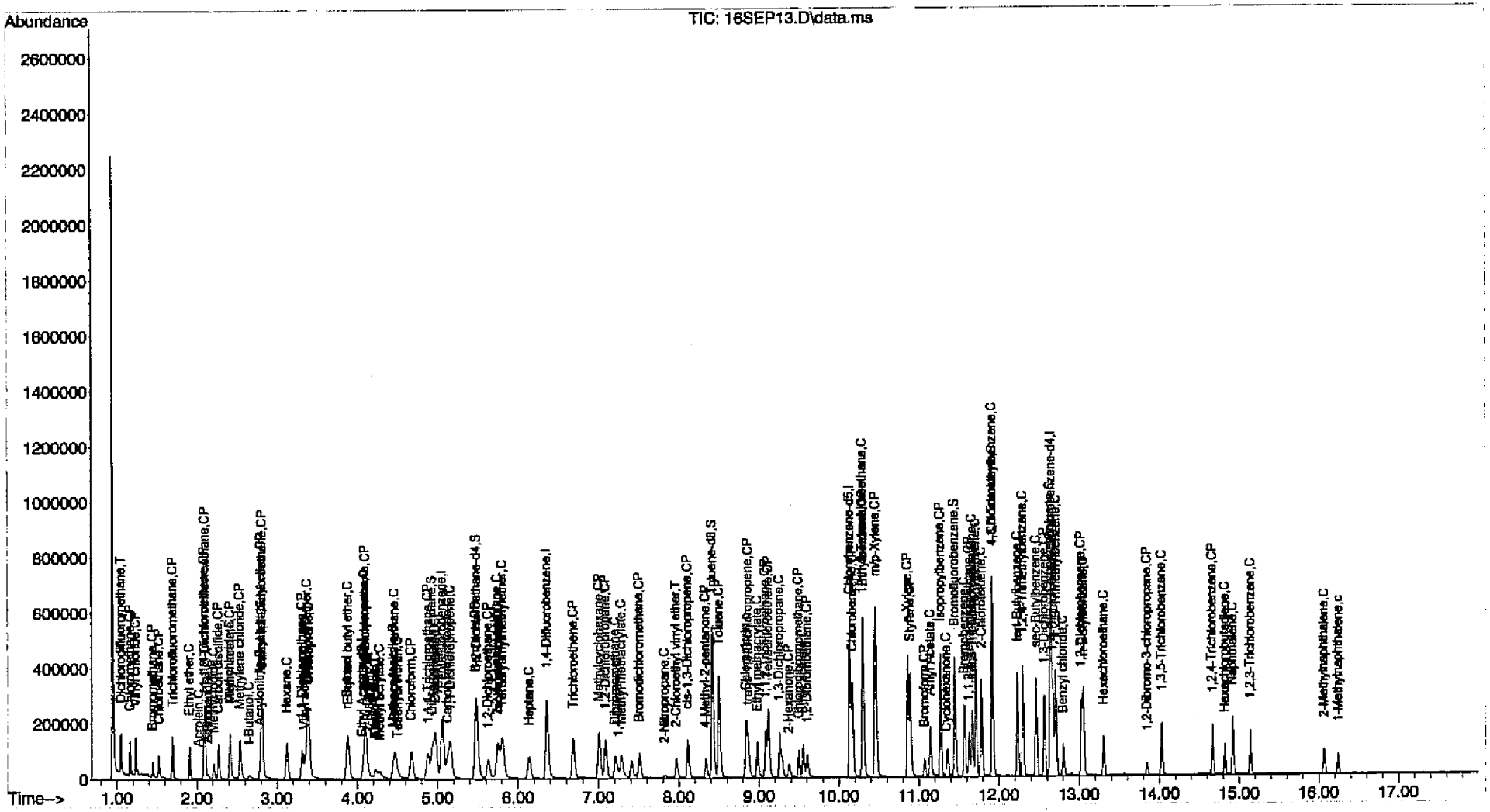
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	11.346	55	8257	33.91 ug/L	94
95)	tert-Butylbenzene	12.232	91	102213	9.06 ug/L	99
96)	Pentachloroethane	12.232	117	5743	No Calib #	
97)	1,2,4-Trimethylbenzene	12.300	105	193491	8.93 ug/L	100
98)	sec-Butylbenzene	12.468	105	218796	9.02 ug/L	100
100)	1,3-Dichlorobenzene	12.567	146	110912	9.01 ug/L	100
101)	p-Isopropyltoluene	12.641	119	181434	8.71 ug/L	99
102)	1,4-Dichlorobenzene	12.678	146	115325	8.85 ug/L	100
103)	1,2,3-Trimethylbenzene	12.714	105	193960	8.96 ug/L	100
104)	Benzyl chloride	12.803	91	71584	7.33 ug/L	100
105)	1,2-Dichlorobenzene	13.029	146	103945	8.97 ug/L	99
106)	n-Butylbenzene	13.055	91	148380	8.54 ug/L	98
107)	Hexachloroethane	13.307	117	17270	7.00 ug/L	92
108)	1,2-Dibromo-3-chloropr...	13.847	157	10706	7.78 ug/L	98
109)	1,3,5-Trichlorobenzene	14.030	180	52810	8.02 ug/L	99
110)	1,2,4-Trichlorobenzene	14.665	180	51094	8.26 ug/L	98
111)	Hexachlorobutadiene	14.822	225	19849	7.62 ug/L	96
112)	Naphthalene	14.922	128	150534	7.39 ug/L	99
113)	1,2,3-Trichlorobenzene	15.142	180	44549	7.85 ug/L	99
114)	2-Methylnaphthalene	16.065	142	40613	6.23 ug/L	98
115)	1-Methylnaphthalene	16.243	142	31467	6.30 ug/L	100
117)	2-Propanone	2.139	43	15922	11.95 ug/L	96
118)	Acetic Ether	4.226	43	43353	10.53 ug/L #	96
119)	Isopropyl Acetate	5.757	61	20877	12.25 ug/L #	67
120)	Amyl Acetate	11.147	43	88576	10.70 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP13.D
Acq On : 16 Sep 2016 5:55 pm
Operator : BJG
Sample : CAL5
Misc : 200-19362 20PPB
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 08:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160916\
Data File : 16SEP15.D
Acq On : 16 Sep 2016 6:47 pm
Operator : BJG
Sample : CAL7
Misc : IS\SS 200-19208
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 08:56:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.059	168	220328	20.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	330119	20.00	ug/L	0.00
63) Chlorobenzene-d5	10.140	117	304052	20.00	ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	141367	20.00	ug/L	0.00
116) Ethyl Acetate-d8	4.069	46	42637	20.00	ug/L	# 0.00
System Monitoring Compounds						
44) Dibromofluoromethane	4.934	111	93873	19.60	ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 98.00%			
48) 1,2-Dichloroethane-d4	5.495	65	112846	19.24	ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.20%			
65) Toluene-d8	8.420	98	406445	20.07	ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 100.35%			
85) Bromofluorobenzene	11.451	95	145738	20.22	ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 101.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.049	85	294030	25.96	ug/L	100
3) Chloromethane	1.164	50	271509	22.55	ug/L	99
4) Vinyl chloride	1.232	62	303318	25.11	ug/L	98
5) Bromomethane	1.447	94	91594	23.37	ug/L	98
6) Chloroethane	1.520	64	185633	25.64	ug/L	99
7) Trichlorofluoromethane	1.693	101	337205	25.85	ug/L	99
8) Ethyl ether	1.908	59	198750	27.37	ug/L	99
9) Acrolein	2.024	56	8422	19.79	ug/L	72
10) 1,1-Dichloroethene	2.087	61	322007	25.89	ug/L	99
11) 1,1,2-Trichlorotrifluo...	2.097	151	158415	27.29	ug/L	99
12) Methyl iodide	2.212	142	214859	38.94	ug/L	96
13) Acetone	2.139	43	54574	24.67	ug/L	97
14) Carbon disulfide	2.270	76	598281	28.79	ug/L	100
15) Allyl chloride	2.412	41	343043	30.06	ug/L	99
16) Methyl acetate	2.412	43	165082	26.94	ug/L	99
17) Acetonitrile	2.805	41	137226	27.48	ug/L	98
18) Methylene chloride	2.538	49	299343	25.88	ug/L	98
19) t-Butanol	2.658	59	79554	103.11	ug/L	97
20) trans-1,2-Dichloroethene	2.810	61	330416	28.37	ug/L	99
21) Acrylonitrile	2.779	53	80223	24.62	ug/L	100
22) Methyl tert-butyl ether	2.805	73	634862	26.74	ug/L	99
23) Hexane	3.120	57	289462	29.59	ug/L	99
24) 1,1-Dichloroethane	3.314	63	423321	26.91	ug/L	99
25) Diisopropyl ether	3.376	45	755760	30.37	ug/L	99
26) Vinyl acetate	3.340	86	47060	27.69	ug/L	95
27) Chloroprene	3.397	53	373826	28.21	ug/L	99
28) n-Butanol	3.885	56	41619	279.13	ug/L #	99
29) Ethyl tert butyl ether	3.880	59	703944	30.34	ug/L	100
30) 2,2-Dichloropropane	4.095	77	315124	28.14	ug/L	99
31) cis-1,2-Dichloroethene	4.100	61	387020	28.83	ug/L	100
32) 2-Butanone	4.116	43	82924	24.14	ug/L	96
33) Ethyl Acetate	4.215	43	200188	25.83	ug/L	97
34) Methyl acrylate	4.268	55	180516	23.50	ug/L	99
35) Propionitrile	4.976	54	28617	26.46	ug/L	97

Data Path : H:\VMS6\6V160916\
Data File : 16SEP15.D
Acq On : 16 Sep 2016 6:47 pm
Operator : BJG
Sample : CAL7
Misc : IS\SS 200-19208
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 08:56:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.467	49	200894	30.34	ug/L		100
37) Tetrahydrofuran	4.488	42	68193m	25.56	ug/L		
38) Methacrylonitrile	4.441	41	164022	26.01	ug/L		98
39) Chloroform	4.671	83	414207	26.88	ug/L		99
40) Cyclohexane	4.976	56	423404	29.19	ug/L		99
41) Isobutyl Alcohol	5.752	43	497301	26.64	ug/L	#	98
43) 1,1,1-Trichloroethane	4.876	97	332033	33.98	ug/L		99
45) Carbon tetrachloride	5.128	117	262735	30.00	ug/L		94
46) 1,1-Dichloropropene	5.159	75	332023	32.09	ug/L		100
47) 2,2,4-Trimethylpentane	5.746	57	493984	34.92	ug/L		98
49) 1,2-Dichloroethane	5.631	62	304973	34.09	ug/L		99
50) Benzene	5.479	78	1023127	34.07	ug/L		100
51) Tertiaryamylmethylether	5.809	73	654779	36.29	ug/L	#	100
52) Heptane	6.140	43	195460	34.19	ug/L		98
53) Methylcyclohexane	7.010	83	356656	34.88	ug/L		99
54) Trichloroethene	6.685	130	264420	34.25	ug/L		100
55) 1,2-Dichloropropane	7.089	63	257237	34.86	ug/L		99
56) Dibromomethane	7.204	93	143680	35.92	ug/L		99
57) Methyl methacrylate	7.283	41	198911	31.01	ug/L		98
58) 1,4-Dioxane	7.230	88	173752m	2060.10	ug/L		
59) Bromodichloromethane	7.508	83	287850	32.18	ug/L		99
60) 2-Nitropropane	7.823	43	45629	32.00	ug/L		98
61) cis-1,3-Dichloropropene	8.111	75	386878	32.51	ug/L		100
62) 2-Chloroethyl vinyl ether	7.964	63	151530	32.00	ug/L		99
64) 4-Methyl-2-pentanone	8.336	43	204184	31.44	ug/L		98
66) Toluene	8.504	91	1122309	34.67	ug/L		100
67) Chloropicrin	8.845	117	558390	295.49	ug/L		99
68) trans-1,3-Dichloropropene	8.861	75	349635	32.80	ug/L		98
69) Ethyl methacrylate	8.976	69	313347	32.26	ug/L		99
70) 1,1,2-Trichloroethane	9.086	97	220485	35.45	ug/L		99
71) Tetrachloroethene	9.118	166	276055	34.63	ug/L		100
72) 1,3-Dichloropropane	9.259	76	390457	35.68	ug/L		99
73) 2-Hexanone	9.369	43	136034	30.51	ug/L		100
74) Chlorodibromomethane	9.500	129	226689	32.90	ug/L		99
75) Butyl acetate	9.553	43	346946	32.10	ug/L		99
76) 1,2-Dibromoethane	9.605	107	213956	34.58	ug/L		98
77) Chlorobenzene	10.171	112	712502	34.70	ug/L		99
78) 1,1,1,2-Tetrachloroethane	10.297	131	215831	33.38	ug/L		99
79) Ethylbenzene	10.303	91	1242267	35.53	ug/L		100
80) m/p-Xylene	10.455	91	1904645	66.10	ug/L		99
81) Styrene	10.895	104	764303	36.57	ug/L		100
82) o-Xylene	10.864	91	947103	35.94	ug/L		100
83) Bromoform	11.073	173	134210	32.87	ug/L		98
84) Isopropylbenzene	11.272	105	1126633	36.68	ug/L		100
86) Bromobenzene	11.571	77	445127	34.86	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.629	83	295339	36.62	ug/L		99
88) 1,2,3-Trichloropropane	11.671	110	86596	34.99	ug/L		99
89) trans-1,4-Dichloro-2-b...	11.666	53	81883	31.05	ug/L		99
90) n-Propylbenzene	11.718	91	1257520	37.12	ug/L		100
91) 2-Chlorotoluene	11.786	91	751281	35.12	ug/L		100
92) 4-Chlorotoluene	11.917	91	869934	36.76	ug/L		100
93) 1,3,5-Trimethylbenzene	11.917	105	827667	36.08	ug/L		99

Data Path : H:\VMS6\6V160916\
Data File : 16SEP15.D
Acq On : 16 Sep 2016 6:47 pm
Operator : BJG
Sample : CAL7
Misc : IS\SS 200-19208
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 08:56:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

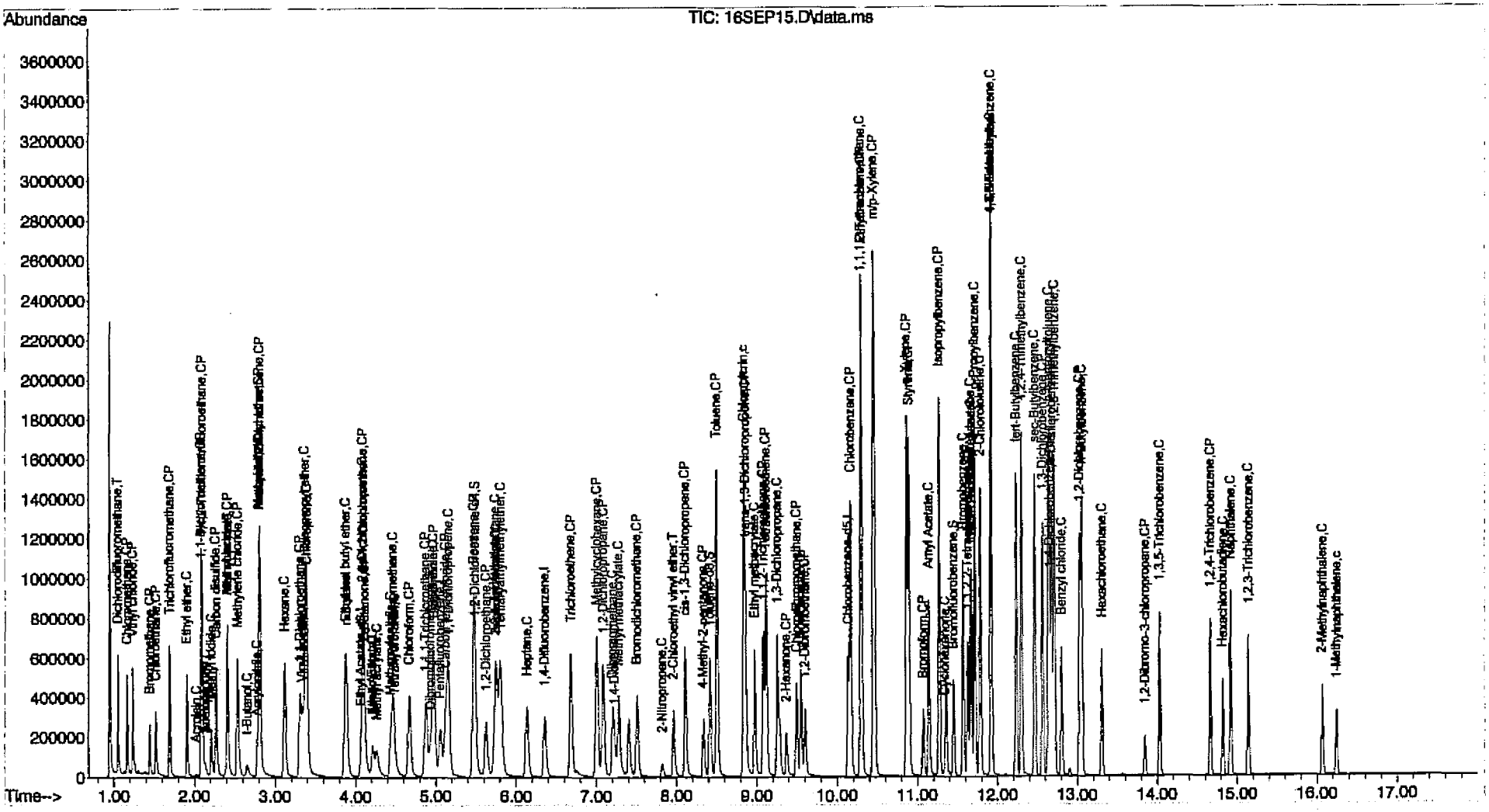
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	11.346	55	36816	133.01 ug/L	97
95)	tert-Butylbenzene	12.232	91	428361	35.80 ug/L	99
96)	Pentachloroethane	12.237	117	22807	No Calib #	
97)	1,2,4-Trimethylbenzene	12.300	105	836674	36.39 ug/L	100
98)	sec-Butylbenzene	12.468	105	936654	36.40 ug/L	100
100)	1,3-Dichlorobenzene	12.567	146	464738	36.21 ug/L	100
101)	p-Isopropyltoluene	12.641	119	783200	36.07 ug/L	99
102)	1,4-Dichlorobenzene	12.678	146	477181	35.15 ug/L	99
103)	1,2,3-Trimethylbenzene	12.714	105	822478	36.46 ug/L	100
104)	Benzyl chloride	12.803	91	395746	30.48 ug/L	100
105)	1,2-Dichlorobenzene	13.029	146	443128	36.67 ug/L	99
106)	n-Butylbenzene	13.055	91	646253	35.68 ug/L	99
107)	Hexachloroethane	13.307	117	97214	31.91 ug/L	100
108)	1,2-Dibromo-3-chloropr...	13.847	157	49642	29.60 ug/L	98
109)	1,3,5-Trichlorobenzene	14.030	180	231423	33.71 ug/L	99
110)	1,2,4-Trichlorobenzene	14.665	180	221377	34.34 ug/L	100
111)	Hexachlorobutadiene	14.822	225	88840	32.73 ug/L	96
112)	Naphthalene	14.922	128	670248	29.84 ug/L	99
113)	1,2,3-Trichlorobenzene	15.142	180	194484	32.87 ug/L	99
114)	2-Methylnaphthalene	16.065	142	196046	24.76 ug/L	99
115)	1-Methylnaphthalene	16.243	142	143389	24.22 ug/L	100
117)	2-Propanone	2.139	43	54574	36.33 ug/L	97
118)	Acetic Ether	4.215	43	200188	38.31 ug/L	98
119)	Isopropyl Acetate	5.757	61	81021	39.21 ug/L #	96
120)	Amyl Acetate	11.141	43	397591	38.81 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP15.D
Acq On : 16 Sep 2016 6:47 pm
Operator : BJG
Sample : CAL7
Misc : IS\SS 200-19208
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 08:56:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160916\
Data File : 16SEP16.D
Acq On : 16 Sep 2016 7:13 pm
Operator : BJG
Sample : CAL8
Misc : IS\SS 200-19208
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 08:58:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.059	168	216530	20.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	320097	20.00	ug/L	0.00
63) Chlorobenzene-d5	10.140	117	300500	20.00	ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	142455	20.00	ug/L	0.00
116) Ethyl Acetate-d8	4.063	46	51825	20.00	ug/L	# 0.00
System Monitoring Compounds						
44) Dibromofluoromethane	4.934	111	91805	19.77	ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 98.85%			
48) 1,2-Dichloroethane-d4	5.489	65	109557	19.26	ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.30%			
65) Toluene-d8	8.420	98	396676	19.82	ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 99.10%			
85) Bromofluorobenzene	11.451	95	143405	20.13	ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 100.65%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.054	85	509136	45.75	ug/L	99
3) Chloromethane	1.164	50	542996	45.90	ug/L	99
4) Vinyl chloride	1.237	62	543782	45.81	ug/L	99
5) Bromomethane	1.442	94	183419	48.40	ug/L	99
6) Chloroethane	1.520	64	323335	45.44	ug/L	100
7) Trichlorofluoromethane	1.693	101	584000	45.56	ug/L	98
8) Ethyl ether	1.908	59	347561	48.42	ug/L	98
9) Acrolein	2.024	56	16238	35.64	ug/L	100
10) 1,1-Dichloroethene	2.087	61	579958	47.32	ug/L	99
11) 1,1,2-Trichlorotrifluo...	2.102	151	278504	48.82	ug/L	99
12) Methyl iodide	2.212	142	402297	84.53	ug/L	99
13) Acetone	2.134	43	96299	44.01	ug/L	96
14) Carbon disulfide	2.270	76	1116707	54.67	ug/L	100
15) Allyl chloride	2.412	41	620712	55.34	ug/L	99
16) Methyl acetate	2.412	43	298880	48.73	ug/L	98
17) Acetonitrile	2.805	41	234693	47.72	ug/L	99
18) Methylene chloride	2.538	49	525893	46.95	ug/L	98
19) t-Butanol	2.663	59	147436	189.96	ug/L	99
20) trans-1,2-Dichloroethene	2.810	61	589914	51.54	ug/L	99
21) Acrylonitrile	2.779	53	149264	45.36	ug/L	100
22) Methyl tert-butyl ether	2.805	73	1117545	47.46	ug/L	100
23) Hexane	3.119	57	511254	53.18	ug/L	100
24) 1,1-Dichloroethane	3.313	63	754953	48.62	ug/L	100
25) Diisopropyl ether	3.382	45	1338791	54.75	ug/L #	52
26) Vinyl acetate	3.345	86	87766	49.55	ug/L #	87
27) Chloroprene	3.397	53	672870	51.67	ug/L	99
28) n-Butanol	3.880	56	71072	489.54	ug/L #	96
29) Ethyl tert butyl ether	3.880	59	1248431	54.75	ug/L	100
30) 2,2-Dichloropropane	4.095	77	567666	51.58	ug/L	99
31) cis-1,2-Dichloroethene	4.100	61	691526	52.41	ug/L	99
32) 2-Butanone	4.116	43	157775	45.74	ug/L	96
33) Ethyl Acetate	4.215	43	367341	47.26	ug/L	98
34) Methyl acrylate	4.268	55	347168	44.63	ug/L	99
35) Propionitrile	4.970	54	48769	46.00	ug/L	89

Data Path : H:\VMS6\6V160916\
Data File : 16SEP16.D
Acq On : 16 Sep 2016 7:13 pm
Operator : BJG
Sample : CAL8
Misc : IS\SS 200-19208
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 08:58:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.467	49	349330	53.68	ug/L		99
37) Tetrahydrofuran	4.483	42	121535	45.64	ug/L		98
38) Methacrylonitrile	4.441	41	300812	46.96	ug/L		98
39) Chloroform	4.677	83	733301	48.23	ug/L		100
40) Cyclohexane	4.970	56	757884	53.16	ug/L		99
41) Isobutyl Alcohol	5.757	43	904032	49.39	ug/L	#	100
43) 1,1,1-Trichloroethane	4.881	97	599545	63.28	ug/L		99
45) Carbon tetrachloride	5.128	117	497587	58.02	ug/L		97
46) 1,1-Dichloropropene	5.159	75	599735	59.78	ug/L		99
47) 2,2,4-Trimethylpentane	5.746	57	875163	63.80	ug/L		95
49) 1,2-Dichloroethane	5.626	62	526892	60.74	ug/L		98
50) Benzene	5.479	78	1820629	62.53	ug/L		100
51) Tertiaryamylmethylether	5.809	73	1166464	66.67	ug/L	#	99
52) Heptane	6.139	43	353029	63.69	ug/L		98
53) Methylcyclohexane	7.010	83	625330	63.07	ug/L		99
54) Trichloroethene	6.685	130	468884	62.63	ug/L		98
55) 1,2-Dichloropropane	7.088	63	456074	63.74	ug/L		98
56) Dibromomethane	7.204	93	252176	65.01	ug/L		98
57) Methyl methacrylate	7.282	41	369801	58.51	ug/L		96
58) 1,4-Dioxane	7.235	88	311862m	3753.86	ug/L		
59) Bromodichloromethane	7.513	83	527951	60.18	ug/L		100
60) 2-Nitropropane	7.822	43	91661	60.10	ug/L		97
61) cis-1,3-Dichloropropene	8.111	75	698097	59.63	ug/L		100
62) 2-Chloroethyl vinyl ether	7.964	63	271835	58.49	ug/L		99
64) 4-Methyl-2-pentanone	8.336	43	365093	56.26	ug/L		100
66) Toluene	8.504	91	1999941	62.52	ug/L		100
67) Chloropicrin	8.845	117	1347772	574.70	ug/L		99
68) trans-1,3-Dichloropropene	8.861	75	626608	58.82	ug/L		99
69) Ethyl methacrylate	8.976	69	562815	58.00	ug/L		99
70) 1,1,2-Trichloroethane	9.086	97	388382	63.18	ug/L		99
71) Tetrachloroethene	9.123	166	486348	61.73	ug/L		100
72) 1,3-Dichloropropane	9.259	76	683847	63.22	ug/L		98
73) 2-Hexanone	9.369	43	247827	55.04	ug/L		99
74) Chlorodibromomethane	9.500	129	414635	60.12	ug/L		99
75) Butyl acetate	9.547	43	640608	59.10	ug/L		99
76) 1,2-Dibromoethane	9.600	107	379182	62.20	ug/L		100
77) Chlorobenzene	10.171	112	1255161	61.85	ug/L		99
78) 1,1,1,2-Tetrachloroethane	10.292	131	389798	60.63	ug/L		100
79) Ethylbenzene	10.302	91	2228612	64.50	ug/L		100
80) m/p-Xylene	10.460	91	3376074	118.69	ug/L		99
81) Styrene	10.895	104	1356521	65.68	ug/L		99
82) o-Xylene	10.863	91	1680235	64.52	ug/L		100
83) Bromoform	11.073	173	255512	60.93	ug/L		99
84) Isopropylbenzene	11.272	105	1998447	65.83	ug/L		100
86) Bromobenzene	11.571	77	788503	62.47	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.629	83	525649	65.94	ug/L		99
88) 1,2,3-Trichloropropane	11.671	110	154480	63.16	ug/L		98
89) trans-1,4-Dichloro-2-b...	11.666	53	149100	56.17	ug/L		95
90) n-Propylbenzene	11.718	91	2244074	67.03	ug/L		99
91) 2-Chlorotoluene	11.786	91	1345441	63.65	ug/L		100
92) 4-Chlorotoluene	11.917	91	1547928	66.19	ug/L		99
93) 1,3,5-Trimethylbenzene	11.917	105	1471221	64.89	ug/L		100

Data Path : H:\VMS6\6V160916\
Data File : 16SEP16.D
Acq On : 16 Sep 2016 7:13 pm
Operator : BJG
Sample : CAL8
Misc : IS\SS 200-19208
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 08:58:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

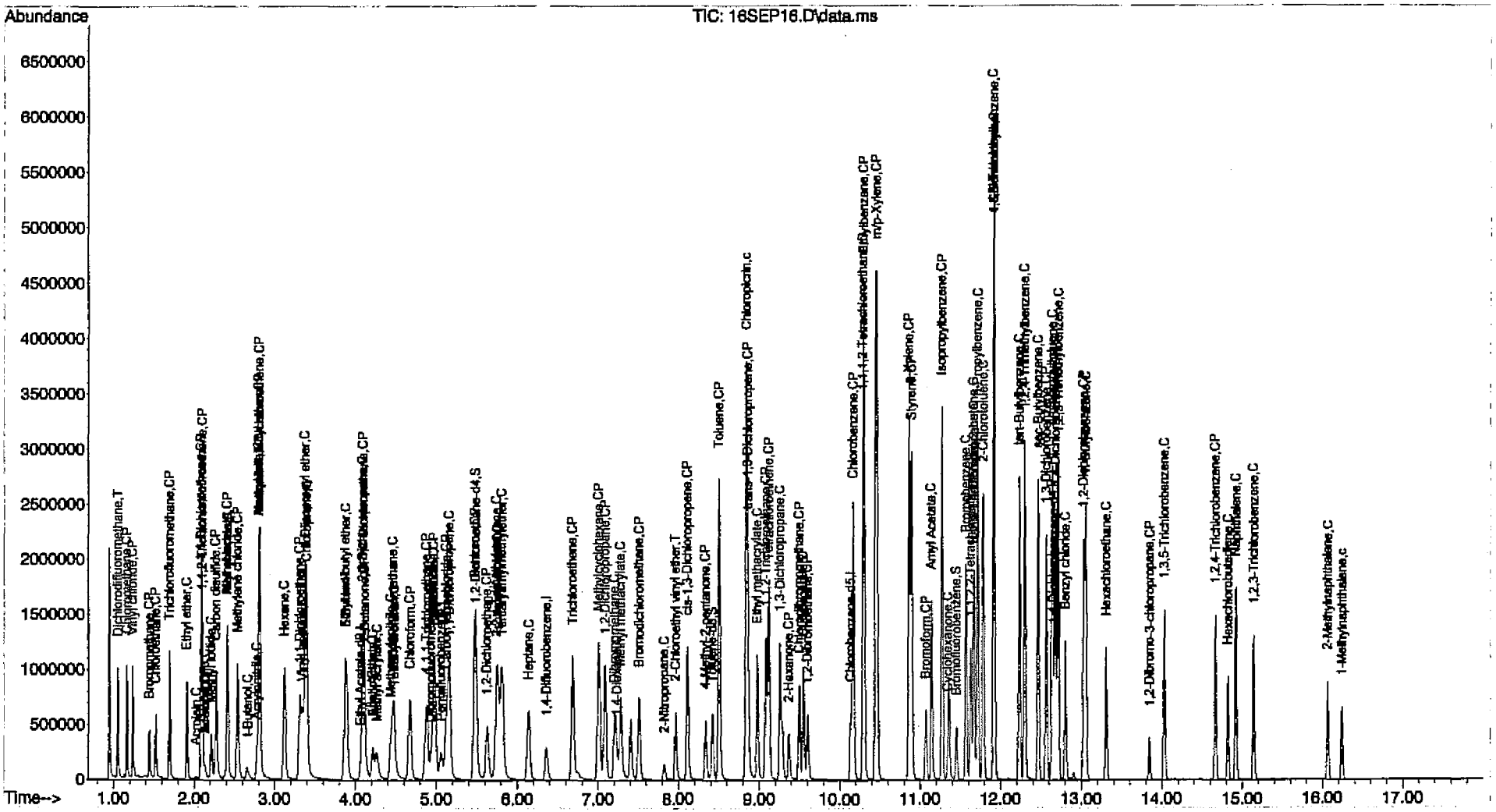
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	11.346	55	65952	238.68 ug/L	99
95)	tert-Butylbenzene	12.232	91	770423	65.16 ug/L	100
96)	Pentachloroethane	12.237	117	41160	No Calib	
97)	1,2,4-Trimethylbenzene	12.300	105	1499395	65.98 ug/L	100
98)	sec-Butylbenzene	12.468	105	1680985	66.10 ug/L	100
100)	1,3-Dichlorobenzene	12.567	146	818300	63.27 ug/L	99
101)	p-Isopropyltoluene	12.641	119	1418151	64.82 ug/L	100
102)	1,4-Dichlorobenzene	12.678	146	841199	61.49 ug/L	99
103)	1,2,3-Trimethylbenzene	12.714	105	1459370	64.20 ug/L	100
104)	Benzyl chloride	12.803	91	770131	57.06 ug/L	100
105)	1,2-Dichlorobenzene	13.029	146	781527	64.19 ug/L	100
106)	n-Butylbenzene	13.055	91	1182787	64.80 ug/L	99
107)	Hexachloroethane	13.307	117	189305	58.92 ug/L	99
108)	1,2-Dibromo-3-chloropr...	13.847	157	95118	54.98 ug/L	98
109)	1,3,5-Trichlorobenzene	14.030	180	420558	60.80 ug/L	99
110)	1,2,4-Trichlorobenzene	14.665	180	406307	62.54 ug/L	100
111)	Hexachlorobutadiene	14.822	225	163780	59.87 ug/L	97
112)	Naphthalene	14.922	128	1243904	54.50 ug/L	99
113)	1,2,3-Trichlorobenzene	15.142	180	356829	59.84 ug/L	98
114)	2-Methylnaphthalene	16.065	142	383660	47.02 ug/L	98
115)	1-Methylnaphthalene	16.243	142	284088	46.67 ug/L	99
117)	2-Propanone	2.134	43	96299	53.23 ug/L	96
118)	Acetic Ether	4.215	43	367341	57.40 ug/L	98
119)	Isopropyl Acetate	5.757	61	150947	59.96 ug/L #	93
120)	Amyl Acetate	11.141	43	724147	57.90 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP16.D
Acq On : 16 Sep 2016 7:13 pm
Operator : BJG
Sample : CAL8
Misc : IS\SS 200-19208
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 08:58:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160916\
Data File : 16SEP17.D
Acq On : 16 Sep 2016 7:38 pm
Operator : BJG
Sample : CAL9
Misc : IS\SS 200-19208
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 08:59:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.065	168	213501	20.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.360	114	324091	20.00	ug/L		0.00
63) Chlorobenzene-d5	10.140	117	303531	20.00	ug/L		0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	145055	20.00	ug/L	#	0.00
116) Ethyl Acetate-d8	4.063	46	62250	20.00	ug/L	#	0.00
System Monitoring Compounds							
44) Dibromofluoromethane	4.934	111	91333	19.43	ug/L		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 97.15%				
48) 1,2-Dichloroethane-d4	5.495	65	109748	19.06	ug/L		0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 95.30%				
65) Toluene-d8	8.420	98	394888	19.53	ug/L		0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 97.65%				
85) Bromofluorobenzene	11.451	95	147445	20.49	ug/L		0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 102.45%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.054	85	650828	59.31	ug/L		99
3) Chloromethane	1.164	50	846242	72.54	ug/L		100
4) Vinyl chloride	1.237	62	743436	63.51	ug/L		99
5) Bromomethane	1.442	94	271476	73.04	ug/L		98
6) Chloroethane	1.520	64	444635	63.38	ug/L		99
7) Trichlorofluoromethane	1.693	101	771309	61.02	ug/L		99
8) Ethyl ether	1.914	59	493178	69.53	ug/L		99
9) Acrolein	2.024	56	28001	56.16	ug/L		94
10) 1,1-Dichloroethene	2.087	61	771664	63.81	ug/L		99
11) 1,1,2-Trichlorotrifluo...	2.102	151	355884	63.27	ug/L		100
12) Methyl iodide	2.212	142	509348	126.31	ug/L		97
13) Acetone	2.139	43	153459	70.89	ug/L		98
14) Carbon disulfide	2.270	76	1528771	75.91	ug/L		100
15) Allyl chloride	2.412	41	855959	77.39	ug/L		98
16) Methyl acetate	2.412	43	482236	79.06	ug/L		97
17) Acetonitrile	2.810	41	349453	71.98	ug/L		98
18) Methylene chloride	2.537	49	726479	66.11	ug/L		98
19) t-Butanol	2.663	59	257147	332.13	ug/L		99
20) trans-1,2-Dichloroethene	2.810	61	800726	70.95	ug/L		99
21) Acrylonitrile	2.779	53	225927	68.89	ug/L		99
22) Methyl tert-butyl ether	2.810	73	1694654	72.69	ug/L		100
23) Hexane	3.119	57	651144	68.69	ug/L		99
24) 1,1-Dichloroethane	3.313	63	1022566	66.68	ug/L		100
25) Diisopropyl ether	3.382	45	2000941	82.99	ug/L	#	52
26) Vinyl acetate	3.345	86	141626	76.61	ug/L	#	63
27) Chloroprene	3.397	53	907492	70.68	ug/L		99
28) n-Butanol	3.880	56	103241	724.11	ug/L	#	91
29) Ethyl tert butyl ether	3.885	59	1889388	84.04	ug/L		99
30) 2,2-Dichloropropane	4.095	77	770958	71.05	ug/L		98
31) cis-1,2-Dichloroethene	4.100	61	938040	72.10	ug/L		99
32) 2-Butanone	4.116	43	249819	72.81	ug/L		96
33) Ethyl Acetate	4.215	43	611607	79.02	ug/L		97
34) Methyl acrylate	4.268	55	534489	68.89	ug/L		99
35) Propionitrile	4.975	54	62182	59.53	ug/L		87

Data Path : H:\VMS6\6V160916\
Data File : 16SEP17.D
Acq On : 16 Sep 2016 7:38 pm
Operator : BJG
Sample : CAL9
Misc : IS\SS 200-19208
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 08:59:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	4.467	49	460311	71.74	ug/L		99
37) Tetrahydrofuran	4.493	42	186310	70.48	ug/L		99
38) Methacrylonitrile	4.441	41	457088	71.39	ug/L		98
39) Chloroform	4.677	83	1003098	66.82	ug/L		100
40) Cyclohexane	4.975	56	978515	69.61	ug/L		99
41) Isobutyl Alcohol	5.757	43	1371396	76.06	ug/L	#	91
43) 1,1,1-Trichloroethane	4.876	97	808790	84.31	ug/L		99
45) Carbon tetrachloride	5.128	117	669011	76.86	ug/L		97
46) 1,1-Dichloropropene	5.159	75	798563	78.62	ug/L		100
47) 2,2,4-Trimethylpentane	5.746	57	1141500	82.19	ug/L		85
49) 1,2-Dichloroethane	5.626	62	745425	84.88	ug/L		99
50) Benzene	5.479	78	2470239	83.80	ug/L		100
51) Tertiaryamylmethylether	5.809	73	1764173	99.59	ug/L	#	98
52) Heptane	6.134	43	454843	81.05	ug/L		97
53) Methylcyclohexane	7.010	83	813810	81.07	ug/L		99
54) Trichloroethene	6.685	130	624889	82.44	ug/L		99
55) 1,2-Dichloropropane	7.088	63	629839	86.94	ug/L		99
56) Dibromomethane	7.204	93	358092	91.18	ug/L		98
57) Methyl methacrylate	7.282	41	552864	85.89	ug/L		95
58) 1,4-Dioxane	7.235	88	542715m	6401.84	ug/L		
59) Bromodichloromethane	7.508	83	745225	83.60	ug/L		99
60) 2-Nitropropane	7.822	43	147644	88.04	ug/L		97
61) cis-1,3-Dichloropropene	8.111	75	982070	82.46	ug/L		100
62) 2-Chloroethyl vinyl ether	7.964	63	408671	86.45	ug/L		99
64) 4-Methyl-2-pentanone	8.336	43	591407	89.75	ug/L		99
66) Toluene	8.504	91	2708283	83.81	ug/L		100
67) Chloropicrin	8.845	117	2283204	821.50	ug/L		99
68) trans-1,3-Dichloropropene	8.861	75	907988	84.04	ug/L		100
69) Ethyl methacrylate	8.976	69	835743	84.89	ug/L		100
70) 1,1,2-Trichloroethane	9.086	97	545377	87.84	ug/L		100
71) Tetrachloroethene	9.123	166	650702	81.77	ug/L		100
72) 1,3-Dichloropropane	9.259	76	972192	88.98	ug/L		99
73) 2-Hexanone	9.369	43	406504	88.49	ug/L		99
74) Chlorodibromomethane	9.500	129	594151	84.91	ug/L		99
75) Butyl acetate	9.547	43	1020079	92.60	ug/L		100
76) 1,2-Dibromoethane	9.605	107	534752	86.94	ug/L		99
77) Chlorobenzene	10.171	112	1715855	83.71	ug/L		99
78) 1,1,1,2-Tetrachloroethane	10.297	131	540224	83.02	ug/L		100
79) Ethylbenzene	10.302	91	3033248	86.90	ug/L		100
80) m/p-Xylene	10.460	91	4617261	160.77	ug/L		99
81) Styrene	10.895	104	1894818	90.82	ug/L		99
82) o-Xylene	10.863	91	2314979	88.00	ug/L		100
83) Bromoform	11.073	173	378138	87.03	ug/L		98
84) Isopropylbenzene	11.272	105	2721353	88.75	ug/L		100
86) Bromobenzene	11.571	77	1104904	86.67	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.629	83	770342	95.67	ug/L		99
88) 1,2,3-Trichloropropane	11.671	110	225656	91.34	ug/L		99
89) trans-1,4-Dichloro-2-b...	11.666	53	227375	83.98	ug/L		94
90) n-Propylbenzene	11.718	91	3061930	90.54	ug/L		99
91) 2-Chlorotoluene	11.786	91	1850450	86.66	ug/L		100
92) 4-Chlorotoluene	11.917	91	2145223	90.82	ug/L		99
93) 1,3,5-Trimethylbenzene	11.917	105	2027828	88.55	ug/L		100

Data Path : H:\VMS6\6V160916\
Data File : 16SEP17.D
Acq On : 16 Sep 2016 7:38 pm
Operator : BJG
Sample : CAL9
Misc : IS\SS 200-19208
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 08:59:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration

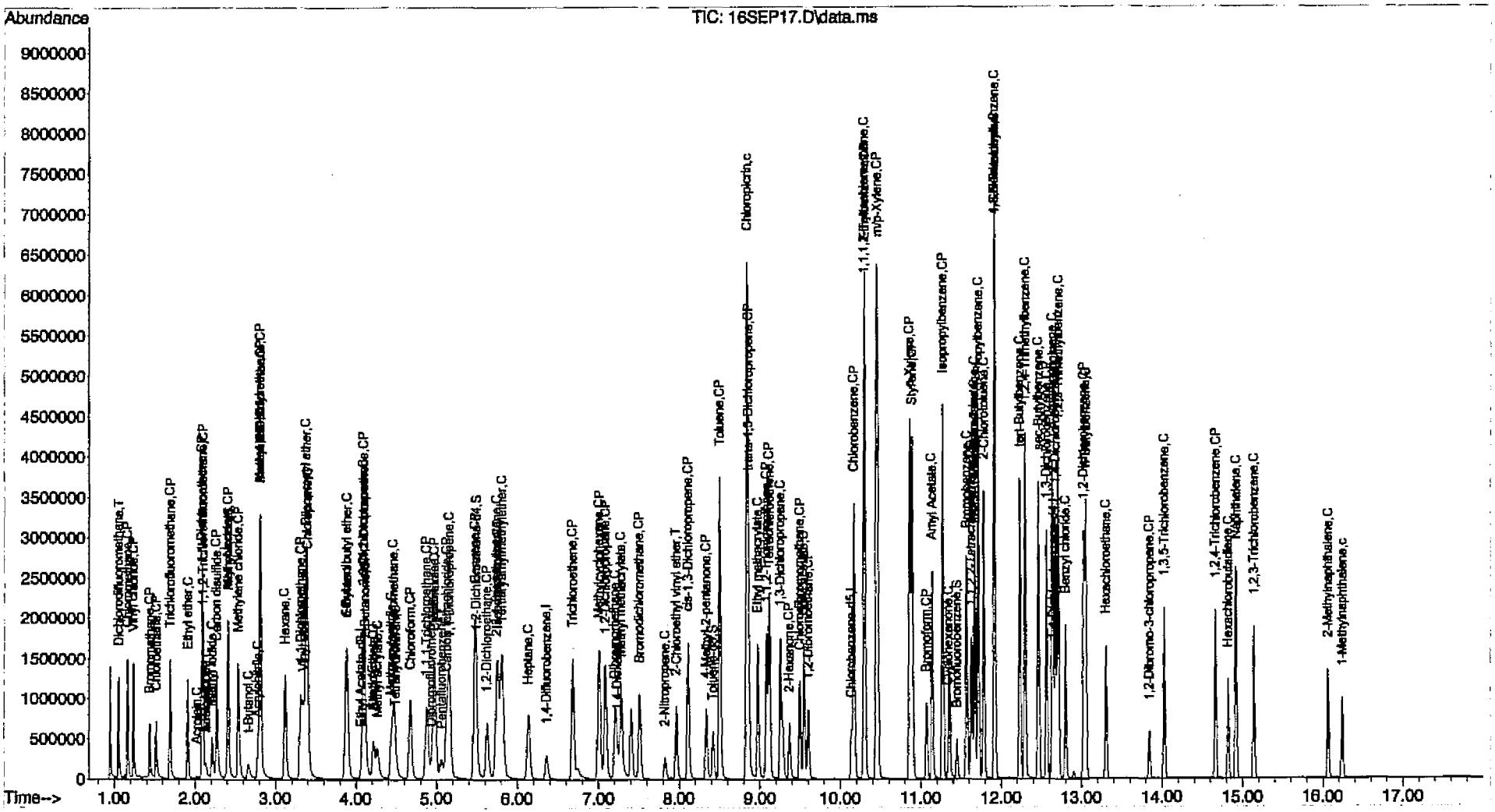
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	11.346	55	121396	432.50 ug/L	98
95)	tert-Butylbenzene	12.232	91	1062340	88.95 ug/L	100
96)	Pentachloroethane	12.232	117	57671	No Calib #	
97)	1,2,4-Trimethylbenzene	12.300	105	2079286	90.58 ug/L	100
98)	sec-Butylbenzene	12.468	105	2296646	89.41 ug/L	100
100)	1,3-Dichlorobenzene	12.567	146	1137016	86.33 ug/L	100
101)	p-Isopropyltoluene	12.641	119	1927575	86.52 ug/L	100
102)	1,4-Dichlorobenzene	12.678	146	1164141	83.57 ug/L	100
103)	1,2,3-Trimethylbenzene	12.714	105	2030881	87.73 ug/L	99
104)	Benzyl chloride	12.803	91	1193474	85.82 ug/L	100
105)	1,2-Dichlorobenzene	13.029	146	1088366	87.78 ug/L	99
106)	n-Butylbenzene	13.055	91	1616661	86.98 ug/L	99
107)	Hexachloroethane	13.307	117	270972	80.58 ug/L	99
108)	1,2-Dibromo-3-chloropr...	13.847	157	147937	83.22 ug/L	98
109)	1,3,5-Trichlorobenzene	14.030	180	584466	82.98 ug/L	100
110)	1,2,4-Trichlorobenzene	14.665	180	572263	86.51 ug/L	100
111)	Hexachlorobutadiene	14.822	225	220896	79.30 ug/L	98
112)	Naphthalene	14.922	128	1861380	79.85 ug/L	100
113)	1,2,3-Trichlorobenzene	15.142	180	514236	84.69 ug/L	98
114)	2-Methylnaphthalene	16.064	142	590894	70.55 ug/L	98
115)	1-Methylnaphthalene	16.243	142	437365	70.06 ug/L	100
117)	2-Propanone	2.139	43	153459	70.97 ug/L	99
118)	Acetic Ether	4.215	43	601693	77.96 ug/L	98
119)	Isopropyl Acetate	5.757	61	237609	78.49 ug/L #	82
120)	Amyl Acetate	11.141	43	1153891	76.64 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP17.D
Acq On : 16 Sep 2016 7:38 pm
Operator : BJG
Sample : CAL9
Misc : IS\SS 200-19208
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 08:59:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0914.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Thu Sep 15 09:12:42 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.060	168	219791	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	323599	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.140	117	296330	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	140884	20.00 ug/L	0.00
116) Ethyl Acetate-d8	4.063	46	37848	20.00 ug/L	0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.934	111	91958	20.37 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 101.85%		
48) 1,2-Dichloroethane-d4	5.484	65	109534	19.87 ug/L	-0.01
Spiked Amount 20.000	Range 75 - 120		Recovery = 99.35%		
65) Toluene-d8	8.420	98	394941	20.33 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 101.65%		
85) Bromofluorobenzene	11.451	95	142030	20.39 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 101.95%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.049	85	217019	28.77 ug/L	100
3) Chloromethane	1.164	50	284731	40.91 ug/L	99
4) Vinyl chloride	1.237	62	301539	38.80 ug/L	96
5) Bromomethane	1.447	94	127151	51.60 ug/L	98
6) Chloroethane	1.520	64	176665	37.56 ug/L	98
7) Trichlorofluoromethane	1.694	101	319725	36.90 ug/L	99
8) Ethyl ether	1.908	59	224937	47.97 ug/L	100
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.087	61	356428	45.43 ug/L	100
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	2.213	142	263758	48.72 ug/L	98
13) Acetone	2.134	43	71849	47.75 ug/L	98
14) Carbon disulfide	2.270	76	665972	45.92 ug/L	100
15) Allyl chloride	2.412	41	379240	46.74 ug/L	95
16) Methyl acetate	0.000		0	N.D.	
17) Acetonitrile	2.805	41	154410	43.82 ug/L	99
18) Methylene chloride	2.538	49	324157	43.04 ug/L	99
19) t-Butanol	2.658	59	105316	262.13 ug/L	94
20) trans-1,2-Dichloroethene	2.810	61	356672	45.29 ug/L	100
21) Acrylonitrile	2.779	53	93255	45.89 ug/L	99
22) Methyl tert-butyl ether	2.805	73	727862	42.17 ug/L	99
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	3.314	63	460888	45.15 ug/L	100
25) Diisopropyl ether	3.382	45	840542	42.37 ug/L	97
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	3.885	56	44959	425.15 ug/L #	96
29) Ethyl tert butyl ether	3.880	59	782531	41.87 ug/L	99
30) 2,2-Dichloropropane	4.095	77	302251	39.25 ug/L	99
31) cis-1,2-Dichloroethene	4.100	61	411598	43.25 ug/L	100
32) 2-Butanone	4.121	43	102179	42.71 ug/L	98
33) Ethyl Acetate	4.215	43	194402	40.62 ug/L	98
34) Methyl acrylate	4.268	55	225514	43.75 ug/L	98
35) Propionitrile	4.970	54	29759	44.15 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.472	49	213782	44.53 ug/L	98
37) Tetrahydrofuran	4.488	42	64630	35.66 ug/L	85
38) Methacrylonitrile	4.441	41	191128	42.79 ug/L	98
39) Chloroform	4.672	83	427825	43.03 ug/L	100
40) Cyclohexane	4.970	56	438602	44.48 ug/L	99
41) Isobutyl Alcohol	5.757	43	384683	28.27 ug/L #	59
43) 1,1,1-Trichloroethane	4.881	97	345543	46.48 ug/L	100
45) Carbon tetrachloride	5.122	117	267594	40.87 ug/L	99
46) 1,1-Dichloropropene	5.159	75	340778	42.85 ug/L	99
47) 2,2,4-Trimethylpentane	5.799	57	11825	1.06 ug/L #	1
49) 1,2-Dichloroethane	5.631	62	326839	44.89 ug/L	99
50) Benzene	5.479	78	1111733	46.52 ug/L	100
51) Tertiaryamylmethylether	5.809	73	732662	43.90 ug/L #	97
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	7.010	83	350618	43.96 ug/L	100
54) Trichloroethene	6.685	130	273308	45.32 ug/L	99
55) 1,2-Dichloropropane	7.089	63	263617	44.51 ug/L	97
56) Dibromomethane	7.204	93	152107	45.31 ug/L	99
57) Methyl methacrylate	7.283	41	220496	41.39 ug/L	98
58) 1,4-Dioxane	7.172	88	22735	670.42 ug/L #	81
59) Bromodichloromethane	7.508	83	295057	39.94 ug/L	100
60) 2-Nitropropane	7.823	43	49521	42.89 ug/L #	93
61) cis-1,3-Dichloropropene	8.111	75	385149	39.45 ug/L	100
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	311407	56.90 ug/L	89
66) Toluene	8.504	91	1213635	46.87 ug/L	100
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.861	75	329461	37.87 ug/L	88
69) Ethyl methacrylate	8.976	69	358387	45.00 ug/L	100
70) 1,1,2-Trichloroethane	9.086	97	237240	48.17 ug/L	99
71) Tetrachloroethene	9.123	166	291555	45.73 ug/L	100
72) 1,3-Dichloropropane	9.259	76	413012	46.81 ug/L	99
73) 2-Hexanone	9.369	43	166534	44.95 ug/L	99
74) Chlorodibromomethane	9.500	129	205022	35.98 ug/L	98
75) Butyl acetate	9.553	43	328449	35.22 ug/L	99
76) 1,2-Dibromoethane	9.605	107	236787	45.17 ug/L	98
77) Chlorobenzene	10.171	112	752926	46.02 ug/L	100
78) 1,1,1,2-Tetrachloroethane	10.292	131	220684	41.56 ug/L	99
79) Ethylbenzene	10.303	91	1340451	44.36 ug/L	100
80) m/p-Xylene	10.455	91	2037668	88.68 ug/L	100
81) Styrene	10.895	104	835071	44.79 ug/L	100
82) o-Xylene	10.864	91	1012917	44.13 ug/L	100
83) Bromoform	11.073	173	120710	36.42 ug/L	99
84) Isopropylbenzene	11.273	105	1190144	48.11 ug/L	100
86) Bromobenzene	11.571	77	478065	46.58 ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.629	83	325935	49.61 ug/L	100
88) 1,2,3-Trichloropropane	11.671	110	94886	47.59 ug/L	96
89) trans-1,4-Dichloro-2-b...	11.666	53	73960	37.55 ug/L	96
90) n-Propylbenzene	11.718	91	1337551	48.70 ug/L	100
91) 2-Chlorotoluene	11.786	91	823444	47.64 ug/L	100
92) 4-Chlorotoluene	11.923	91	928542	48.13 ug/L	100
93) 1,3,5-Trimethylbenzene	11.917	105	885906	44.10 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

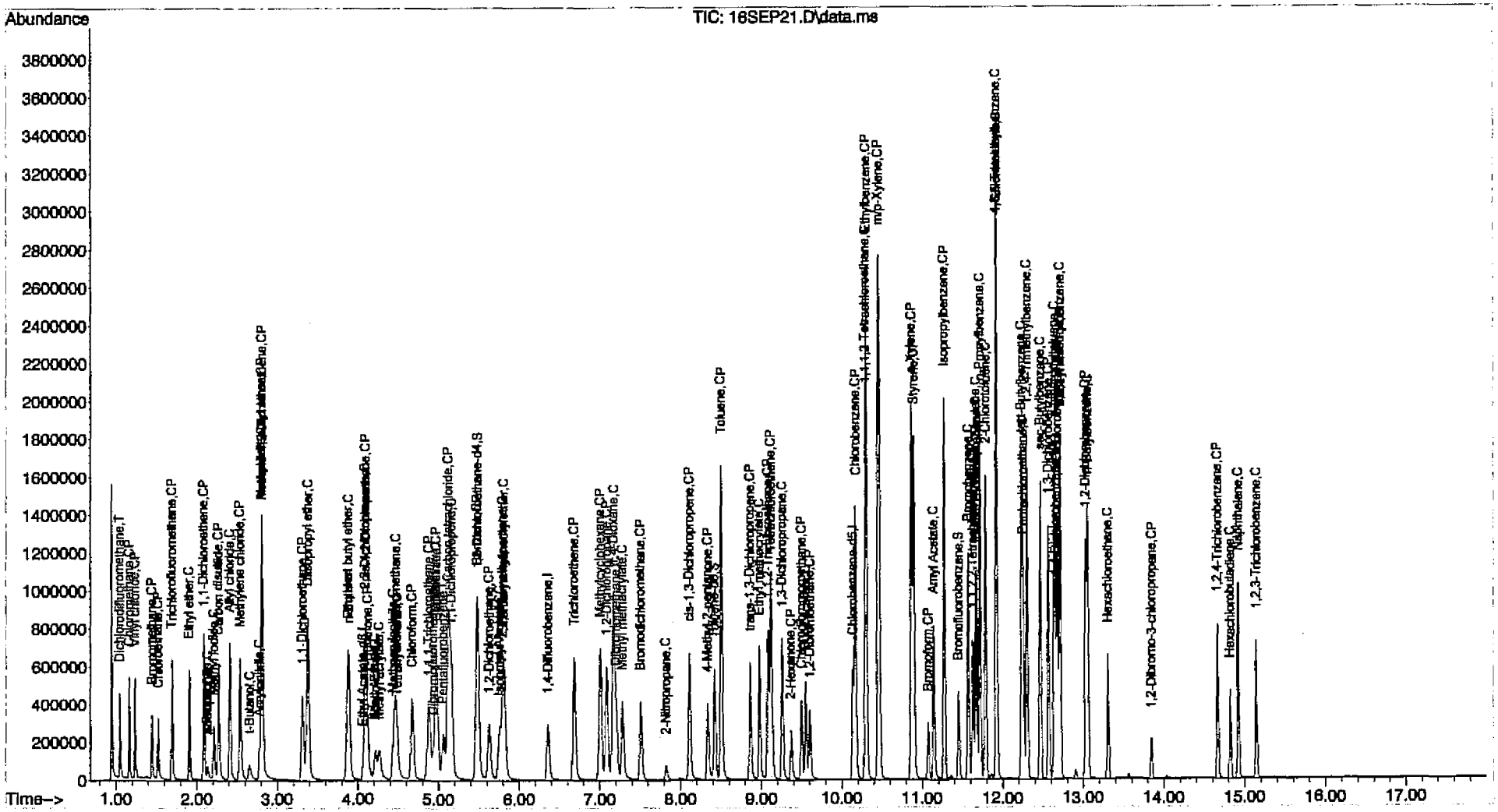
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	0.000		0	N.D.	
95) tert-Butylbenzene	12.232	91	449861	47.13 ug/L	95
96) Pentachloroethane	12.253	117	153160	285.26 ug/L #	1
97) 1,2,4-Trimethylbenzene	12.300	105	882975	43.06 ug/L	99
98) sec-Butylbenzene	12.468	105	975580	47.94 ug/L	100
100) 1,3-Dichlorobenzene	12.568	146	490058	46.40 ug/L	98
101) p-Isopropyltoluene	12.641	119	815835	42.52 ug/L	99
102) 1,4-Dichlorobenzene	12.678	146	495158	44.18 ug/L	99
103) 1,2,3-Trimethylbenzene	12.714	105	903584	49.70 ug/L	99
104) Benzyl chloride	12.714	91	82653	9.17 ug/L #	39
105) 1,2-Dichlorobenzene	13.029	146	464509	46.18 ug/L	99
106) n-Butylbenzene	13.055	91	664153	41.49 ug/L	100
107) Hexachloroethane	13.307	117	87250	35.05 ug/L	97
108) 1,2-Dibromo-3-chloropr...	13.847	157	49699	36.64 ug/L	98
109) 1,3,5-Trichlorobenzene	0.000		0	N.D.	
110) 1,2,4-Trichlorobenzene	14.665	180	225281	44.74 ug/L	100
111) Hexachlorobutadiene	14.822	225	82941	39.41 ug/L	99
112) Naphthalene	14.922	128	734825	41.74 ug/L	99
113) 1,2,3-Trichlorobenzene	15.142	180	202810	45.73 ug/L	98
114) 2-Methylnaphthalene	0.000		0	N.D.	
115) 1-Methylnaphthalene	0.000		0	N.D.	
117) 2-Propanone	2.134	43	71849	68.78 ug/L	98
118) Acetic Ether	4.215	43	194402	50.81 ug/L	99
119) Isopropyl Acetate	5.757	61	79758	51.74 ug/L #	43
120) Amyl Acetate	11.141	43	372818	50.06 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	20.000	20.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	40.000	28.770	28.1	74	0.00
3	CP	Chloromethane	40.000	40.914	-2.3	105	0.00
4	CP	Vinyl chloride	40.000	38.797	3.0	99	0.00
5	CP	Bromomethane	40.000	51.603	-29.0#	139	0.00
6	CP	Chloroethane	40.000	37.560	6.1	95	0.00
7	CP	Trichlorofluoromethane	40.000	36.903	7.7	95	0.00
8	C	Ethyl ether	40.000	47.972	-19.9	113	0.00
9	C	Acrolein	40.000	0.000	100.0#	0	-2.02#
10	CP	1,1-Dichloroethene	40.000	45.435	-13.6	111	0.00
11	CP	1,1,2-Trichlorotrifluoroeth	40.000	0.000	100.0#	0	-2.10#
12	C	Methyl iodide	40.000	48.719	-21.8#	123	0.00
13	CP	Acetone	40.000	47.748	-19.4	132	0.00
14	CP	Carbon disulfide	40.000	45.917	-14.8	111	0.00
15	C	Allyl chloride	40.000	46.738	-16.8	111	0.00
16	CP	Methyl acetate	40.000	0.000	100.0#	0	-2.41#
17	C	Acetonitrile	40.000	43.823	-9.6	113	0.00
18	CP	Methylene chloride	40.000	43.038	-7.6	108	0.00
19	C	t-Butanol	200.000	262.133	-31.1#	132	0.00
20	CP	trans-1,2-Dichloroethene	40.000	45.288	-13.2	108	0.00
21	C	Acrylonitrile	40.000	45.889	-14.7	116	0.00
22	CP	Methyl tert-butyl ether	40.000	42.168	-5.4	115	0.00
23	C	Hexane	40.000	0.000	100.0#	0	-3.12#
24	CP	1,1-Dichloroethane	40.000	45.151	-12.9	109	0.00
25	C	Diisopropyl ether	40.000	42.374	-5.9	111	0.00
26	C	Vinyl acetate	40.000	0.000	100.0#	0	-3.34#
27	C	Chloroprene	40.000	0.000	100.0#	0	-3.40#
28		n-Butanol	400.000	425.152	-6.3	108	0.00
29	C	Ethyl tert butyl ether	40.000	41.867	-4.7	111	0.00
30	C	2,2-Dichloropropane	40.000	39.246	1.9	96	0.00
31	CP	cis-1,2-Dichloroethene	40.000	43.252	-8.1	106	0.00
32	CP	2-Butanone	40.000	42.714	-6.8	123	0.00
33	C	Ethyl Acetate	40.000	40.620	-1.5	97	0.00
34	C	Methyl acrylate	40.000	43.752	-9.4	125	0.00
35	C	Propionitrile	40.000	44.149	-10.4	104	0.00
36	C	Bromochloromethane	40.000	44.526	-11.3	106	0.00
37	C	Tetrahydrofuran	40.000	35.663	10.8	95	0.00
38	C	Methacrylonitrile	40.000	42.790	-7.0	117	0.00
39	CP	Chloroform	40.000	43.027	-7.6	103	0.00
40	CP	Cyclohexane	40.000	44.479	-11.2	104	0.00
41	C	Isobutyl Alcohol	40.000	28.275	29.3#	77	0.00
42	I	1,4-Difluorobenzene	20.000	20.000	0.0	98	0.00
43	CP	1,1,1-Trichloroethane	40.000	46.476	-16.2	104	0.00
44	S	Dibromofluoromethane	20.000	20.372	-1.9	98	0.00
45	CP	Carbon tetrachloride	40.000	40.868	-2.2	102	0.00
46	C	1,1-Dichloropropene	40.000	42.852	-7.1	103	0.00
47	C	2,2,4-Trimethylpentane	40.000	1.064	97.3#	2	0.05

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	S	1,2-Dichloroethane-d4	20.000	19.874	0.6	97	-0.01
49	CP	1,2-Dichloroethane	40.000	44.892	-12.2	107	0.00
50	CP	Benzene	40.000	46.523	-16.3	109	0.00
51	C	Tertiaryamylmethylether	40.000	43.902	-9.8	112	0.00
52	C	Heptane	40.000	0.000	100.0#	0	-6.14#
53	CP	Methylcyclohexane	40.000	43.964	-9.9	98	0.00
54	CP	Trichloroethene	40.000	45.318	-13.3	103	0.00
55	CP	1,2-Dichloropropane	40.000	44.506	-11.3	102	0.00
56	C	Dibromomethane	40.000	45.312	-13.3	106	0.00
57	C	Methyl methacrylate	40.000	41.387	-3.5	111	0.00
58	C	1,4-Dioxane	4000.000	670.420	83.2#	13	-0.06
59	CP	Bromodichloromethane	40.000	39.936	0.2	103	0.00
60	C	2-Nitropropane	40.000	42.888	-7.2	109	0.00
61	CP	cis-1,3-Dichloropropene	40.000	39.451	1.4	100	0.00
62	T	2-Chloroethyl vinyl ether	40.000	0.000	100.0#	0	-7.96#
63	I	Chlorobenzene-d5	20.000	20.000	0.0	97	0.00
64	CP	4-Methyl-2-pentanone	40.000	56.898	-42.2#	153	0.00
65	S	Toluene-d8	20.000	20.331	-1.7	97	0.00
66	CP	Toluene	40.000	46.874	-17.2	108	0.00
67	c	Chloropicrin	400.000	0.000	100.0#	0	-8.84#
68	CP	trans-1,3-Dichloropropene	40.000	37.866	5.3	94	0.00
69	C	Ethyl methacrylate	40.000	45.005	-12.5	114	0.00
70	CP	1,1,2-Trichloroethane	40.000	48.166	-20.4#	108	0.00
71	CP	Tetrachloroethene	40.000	45.730	-14.3	106	0.00
72	C	1,3-Dichloropropane	40.000	46.812	-17.0	106	0.00
73	CP	2-Hexanone	40.000	44.950	-12.4	122	0.00
74	CP	Chlorodibromomethane	40.000	35.979	10.1	90	0.00
75	C	Butyl acetate	40.000	35.221	11.9	95	0.00
76	CP	1,2-Dibromoethane	40.000	45.172	-12.9	111	0.00
77	CP	Chlorobenzene	40.000	46.020	-15.1	106	0.00
78	C	1,1,1,2-Tetrachloroethane	40.000	41.559	-3.9	102	0.00
79	CP	Ethylbenzene	40.000	44.360	-10.9	108	0.00
80	CP	m/p-Xylene	80.000	88.684	-10.9	107	0.00
81	CP	Styrene	40.000	44.793	-12.0	109	0.00
82	CP	o-Xylene	40.000	44.125	-10.3	107	0.00
83	CP	Bromoform	40.000	36.420	8.9	90	0.00
84	CP	Isopropylbenzene	40.000	48.108	-20.3#	106	0.00
85	S	Bromofluorobenzene	20.000	20.391	-2.0	97	0.00
86	C	Bromobenzene	40.000	46.582	-16.5	107	0.00
87	CP	1,1,2,2-Tetrachloroethane	40.000	49.611	-24.0#	110	0.00
88	C	1,2,3-Trichloropropane	40.000	47.590	-19.0	110	0.00
89	C	trans-1,4-Dichloro-2-butene	40.000	37.548	6.1	90	0.00
90	C	n-Propylbenzene	40.000	48.702	-21.8#	106	0.00
91	C	2-Chlorotoluene	40.000	47.639	-19.1	110	0.00
92	C	4-Chlorotoluene	40.000	48.128	-20.3#	107	0.00
93	C	1,3,5-Trimethylbenzene	40.000	44.104	-10.3	107	0.00
94	C	Cyclohexanone	200.000	0.000	100.0#	0	-11.35#

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
95	C	tert-Butylbenzene	40.000	47.128	-17.8	105	0.00
96	C	Pentachloroethane	40.000	285.260	-613.1#	672	0.02
97	C	1,2,4-Trimethylbenzene	40.000	43.064	-7.7	106	0.00
98	C	sec-Butylbenzene	40.000	47.941	-19.9	104	0.00
99	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	100	0.00
100	CP	1,3-Dichlorobenzene	40.000	46.398	-16.0	105	0.00
101	C	p-Isopropyltoluene	40.000	42.524	-6.3	104	0.00
102	CP	1,4-Dichlorobenzene	40.000	44.179	-10.4	104	0.00
103	C	1,2,3-Trimethylbenzene	40.000	49.699	-24.2#	110	0.00
104	C	Benzyl chloride	40.000	9.166	77.1#	21	-0.09
105	CP	1,2-Dichlorobenzene	40.000	46.182	-15.5	105	0.00
106	C	n-Butylbenzene	40.000	41.492	-3.7	103	0.00
107	C	Hexachloroethane	40.000	35.046	12.4	90	0.00
108	CP	1,2-Dibromo-3-chloropropane	40.000	36.636	8.4	100	0.00
109	C	1,3,5-Trichlorobenzene	40.000	0.000	100.0#	0	-14.03#
110	CP	1,2,4-Trichlorobenzene	40.000	44.745	-11.9	102	0.00
111	C	Hexachlorobutadiene	40.000	39.414	1.5	93	0.00
112	C	Naphthalene	40.000	41.743	-4.4	110	0.00
113	C	1,2,3-Trichlorobenzene	40.000	45.727	-14.3	104	0.00
114	C	2-Methylnaphthalene	40.000	0.000	100.0#	0	-16.06#
115	c	1-Methylnaphthalene	40.000	0.000	100.0#	0	-16.24#
116	I	Ethyl Acetate-d8	20.000	20.000	0.0	89	0.00
117	C	2-Propanone	40.000	68.775	-71.9#	132	0.00
118	C	Acetic Ether	40.000	50.812	-27.0#	97	0.00
119	C	Isopropyl Acetate	40.000	51.744	-29.4#	98	0.00
120	C	Amyl Acetate	40.000	50.065	-25.2#	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 31

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.686	0.494	28.0	74	0.00
3	CP	Chloromethane	0.636	0.648	-1.9	105	0.00
4	CP	Vinyl chloride	0.707	0.686	3.0	99	0.00
5	CP	Bromomethane	0.213	0.289	-35.7#	139	0.00
6	CP	Chloroethane	0.645	0.402	37.7#	95	0.00
7	CP	Trichlorofluoromethane	0.788	0.727	7.7	95	0.00
8	C	Ethyl ether	0.427	0.512	-19.9	113	0.00
9	C	Acrolein	0.024	0.000#	100.0#	0#	-2.02#
10	CP	1,1-Dichloroethene	0.714	0.811	-13.6	111	0.00
11	CP	1,1,2-Trichlorotrifluoroeth	0.342	0.000#	100.0#	0#	-2.10#
12	C	Methyl iodide	0.387	0.600	-55.0#	123	0.00
13	CP	Acetone	0.179	0.163	8.9	132	0.00
14	CP	Carbon disulfide	1.320	1.515	-14.8	111	0.00
15	C	Allyl chloride	0.738	0.863	-16.9	111	0.00
16	CP	Methyl acetate	0.390	0.000#	100.0#	0#	-2.41#
17	C	Acetonitrile	0.366	0.351	4.1	113	0.00
18	CP	Methylene chloride	0.707	0.737	-4.2	108	0.00
19	C	t-Butanol	0.034	0.048#	-41.2#	132	0.00
20	CP	trans-1,2-Dichloroethene	0.717	0.811	-13.1	108	0.00
21	C	Acrylonitrile	0.149	0.212	-42.3#	116	0.00
22	CP	Methyl tert-butyl ether	1.571	1.656	-5.4	115	0.00
23	C	Hexane	0.607	0.000#	100.0#	0#	-3.12#
24	CP	1,1-Dichloroethane	0.929	1.048	-12.8	109	0.00
25	C	Diisopropyl ether	1.805	1.912	-5.9	111	0.00
26	C	Vinyl acetate	0.089	0.000#	100.0#	0#	-3.34#
27	C	Chloroprene	0.793	0.000#	100.0#	0#	-3.40#
28		n-Butanol	0.012	0.010#	16.7	108	0.00
29	C	Ethyl tert butyl ether	1.701	1.780	-4.6	111	0.00
30	C	2,2-Dichloropropane	0.701	0.688	1.9	96	0.00
31	CP	cis-1,2-Dichloroethene	0.866	0.936	-8.1	106	0.00
32	CP	2-Butanone	0.164	0.232	-41.5#	123	0.00
33	C	Ethyl Acetate	0.414	0.442	-6.8	97	0.00
34	C	Methyl acrylate	0.282	0.513	-81.9#	125	0.00
35	C	Propionitrile	0.054	0.068#	-25.9#	104	0.00
36	C	Bromochloromethane	0.437	0.486	-11.2	106	0.00
37	C	Tetrahydrofuran	0.126	0.147#	-16.7	95	0.00
38	C	Methacrylonitrile	0.286	0.435	-52.1#	117	0.00
39	CP	Chloroform	0.905	0.973	-7.5	103	0.00
40	CP	Cyclohexane	0.897	0.998	-11.3	104	0.00
41	C	Isobutyl Alcohol	1.285	0.875	31.9#	77	0.00
42	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
43	CP	1,1,1-Trichloroethane	0.460	0.534	-16.1	104	0.00
44	S	Dibromofluoromethane	0.279	0.284	-1.8	98	0.00
45	CP	Carbon tetrachloride	0.405	0.413	-2.0	102	0.00
46	C	1,1-Dichloropropene	0.492	0.527	-7.1	103	0.00
47	C	2,2,4-Trimethylpentane	0.687	0.018#	97.4#	2#	0.05

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	S	1,2-Dichloroethane-d4	0.341	0.338	0.9	97	-0.01
49	CP	1,2-Dichloroethane	0.450	0.505	-12.2	107	0.00
50	CP	Benzene	1.477	1.718	-16.3	109	0.00
51	C	Tertiaryamylmethylether	1.031	1.132	-9.8	112	0.00
52	C	Heptane	0.257	0.000#	100.0#	0#	-6.14#
53	CP	Methylcyclohexane	0.493	0.542	-9.9	98	0.00
54	CP	Trichloroethene	0.373	0.422	-13.1	103	0.00
55	CP	1,2-Dichloropropane	0.366	0.407	-11.2	102	0.00
56	C	Dibromomethane	0.207	0.235	-13.5	106	0.00
57	C	Methyl methacrylate	0.244	0.341	-39.8#	111	0.00
58	C	1,4-Dioxane	0.002	0.000#	100.0#	13#	-0.06
59	CP	Bromodichloromethane	0.387	0.456	-17.8	103	0.00
60	C	2-Nitropropane	0.066	0.077#	-16.7	109	0.00
61	CP	cis-1,3-Dichloropropene	0.491	0.595	-21.2#	100	0.00
62	T	2-Chloroethyl vinyl ether	0.184	0.000#	100.0#	0#	-7.96#
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	CP	4-Methyl-2-pentanone	0.317	0.525	-65.6#	153	0.00
65	S	Toluene-d8	1.311	1.333	-1.7	97	0.00
66	CP	Toluene	1.747	2.048	-17.2	108	0.00
67	c	Chloropicrin	0.078	0.000#	100.0#	0#	-8.84#
68	CP	trans-1,3-Dichloropropene	0.457	0.556	-21.7#	94	0.00
69	C	Ethyl methacrylate	0.421	0.605	-43.7#	114	0.00
70	CP	1,1,2-Trichloroethane	0.332	0.400	-20.5#	108	0.00
71	CP	Tetrachloroethene	0.430	0.492	-14.4	106	0.00
72	C	1,3-Dichloropropane	0.595	0.697	-17.1	106	0.00
73	CP	2-Hexanone	0.196	0.281	-43.4#	122	0.00
74	CP	Chlorodibromomethane	0.299	0.346	-15.7	90	0.00
75	C	Butyl acetate	0.541	0.554	-2.4	95	0.00
76	CP	1,2-Dibromoethane	0.314	0.400	-27.4#	111	0.00
77	CP	Chlorobenzene	1.104	1.270	-15.0	106	0.00
78	C	1,1,1,2-Tetrachloroethane	0.304	0.372	-22.4#	102	0.00
79	CP	Ethylbenzene	1.876	2.262	-20.6#	108	0.00
80	CP	m/p-Xylene	1.413	1.719	-21.7#	107	0.00
81	CP	Styrene	1.097	1.409	-28.4#	109	0.00
82	CP	o-Xylene	1.410	1.709	-21.2#	107	0.00
83	CP	Bromoform	0.184	0.204	-10.9	90	0.00
84	CP	Isopropylbenzene	1.670	2.008	-20.2#	106	0.00
85	S	Bromofluorobenzene	0.470	0.479	-1.9	97	0.00
86	C	Bromobenzene	0.693	0.807	-16.5	107	0.00
87	CP	1,1,2,2-Tetrachloroethane	0.443	0.550	-24.2#	110	0.00
88	C	1,2,3-Trichloropropane	0.135	0.160#	-18.5	110	0.00
89	C	trans-1,4-Dichloro-2-butene	0.107	0.125#	-16.8	90	0.00
90	C	n-Propylbenzene	1.854	2.257	-21.7#	106	0.00
91	C	2-Chlorotoluene	1.167	1.389	-19.0	110	0.00
92	C	4-Chlorotoluene	1.302	1.567	-20.4#	107	0.00
93	C	1,3,5-Trimethylbenzene	1.207	1.495	-23.9#	107	0.00
94	C	Cyclohexanone	0.016	0.000#	100.0#	0#	-11.35#

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160916\
Data File : 16SEP21.D
Acq On : 16 Sep 2016 9:23 pm
Operator : BJG
Sample : ICV
Misc : IS\SS 200-19208
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 15:07:25 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
95	C	tert-Butylbenzene	0.644	0.759	-17.9	105	0.00
96	C	Pentachloroethane	0.036	0.258	-616.7#	672#	0.02
97	C	1,2,4-Trimethylbenzene	1.221	1.490	-22.0#	106	0.00
98	C	sec-Butylbenzene	1.373	1.646	-19.9	104	0.00
99	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
100	CP	1,3-Dichlorobenzene	1.499	1.739	-16.0	105	0.00
101	C	p-Isopropyltoluene	2.429	2.895	-19.2	104	0.00
102	CP	1,4-Dichlorobenzene	1.591	1.757	-10.4	104	0.00
103	C	1,2,3-Trimethylbenzene	2.581	3.207	-24.3#	110	0.00
104	C	Benzyl chloride	1.051	0.293	72.1#	21#	-0.09
105	CP	1,2-Dichlorobenzene	1.428	1.649	-15.5	105	0.00
106	C	n-Butylbenzene	1.972	2.357	-19.5	103	0.00
107	C	Hexachloroethane	0.262	0.310	-18.3	90	0.00
108	CP	1,2-Dibromo-3-chloropropane	0.135	0.176	-30.4#	100	0.00
109	C	1,3,5-Trichlorobenzene	0.744	0.000#	100.0#	0#	-14.03#
110	CP	1,2,4-Trichlorobenzene	0.715	0.800	-11.9	102	0.00
111	C	Hexachlorobutadiene	0.299	0.294	1.7	93	0.00
112	C	Naphthalene	2.072	2.608	-25.9#	110	0.00
113	C	1,2,3-Trichlorobenzene	0.630	0.720	-14.3	104	0.00
114	C	2-Methylnaphthalene	0.583	0.000#	100.0#	0#	-16.06#
115	c	1-Methylnaphthalene	0.436	0.000#	100.0#	0#	-16.24#
116	I	Ethyl Acetate-d8	1.000	1.000	0.0	89	0.00
117	C	2-Propanone	0.966	0.949	1.8#	132	0.00
118	C	Acetic Ether	2.521	2.568	-1.9#	97	0.00
119	C	Isopropyl Acetate	0.944	1.054	-11.7	98	0.00
120	C	Amyl Acetate	4.259	4.925	-15.6	94	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 50

Sequence Log 2016 Sep 16 1044

Instrument Name: VMS6
Sequence File: C:\msdchem\1\sequence\VMS6_160916.S
Comment:
Operator: BJG
Data Path: C:\MSDCHEM\1\DATA\6V160916\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	BFB	1	16SEP01	BFB	VBFB1-160916
2)	Sample	1	16SEP02	6AC0914	VCCV1-160916
3)	Sample	1	16SEP03	6AC0914	VCCV2-160916
4)	Sample	1	16SEP04	6AC0914	BLK
5)	Sample	2	16SEP05	6AC0914	BLK
6)	Sample	3	16SEP06	6AC0914	BLK
7)	Sample	4	16SEP07	6AC0914	BLK
8)	Sample	5	16SEP08	6AC0914	VBLKW1-160916
9)	Sample	6	16SEP09	6AC0914	MBLK-
10)	Sample	7	16SEP10	6AC0914	CAL2
11)	Sample	8	16SEP11	6AC0914	CAL3
12)	Sample	9	16SEP12	6AC0914	CAL4
13)	Sample	10	16SEP13	6AC0914	CAL5
14)	Sample	11	16SEP14	6AC0914	CAL6
15)	Sample	12	16SEP15	6AC0914	CAL7
16)	Sample	13	16SEP16	6AC0914	CAL8
17)	Sample	14	16SEP17	6AC0914	CAL9
18)	Sample	15	16SEP18	6AC0914	BLK
19)	Sample	16	16SEP19	6AC0914	BLK
20)	Sample	17	16SEP20	6AC0914	BLK
21)	Sample	18	16SEP21	6AC0914	ICV
22)	Sample	19	16SEP22	6AC0914	BLK
23)	Sample	20	16SEP23	BFB	VBFB2-160916
24)	Sample	21	16SEP24	6AC0914	VCCV3-160916
25)	Sample	22	16SEP25	6AC0914	VCCV4-160916
26)	Sample	23	16SEP26	6AC0914	VLCSW1-160916
27)	Sample	24	16SEP27	6AC0914	LCS-

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	20.000	20.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	40.000	37.204	7.0	97	0.00
3	CP	Chloromethane	40.000	40.319	-0.8	105	0.00
4	CP	Vinyl chloride	40.000	38.786	3.0	101	0.00
5	CP	Bromomethane	40.000	43.423	-8.6	116	0.00
6	CP	Chloroethane	40.000	39.318	1.7	101	0.00
7	CP	Trichlorofluoromethane	40.000	39.073	2.3	102	0.00
8	C	Ethyl ether	40.000	41.458	-3.6	99	0.00
9	C	Acrolein	40.000	40.557	-1.4	101	0.00
10	CP	1,1-Dichloroethene	40.000	42.978	-7.4	106	0.00
11	CP	1,1,2-Trichlorotrifluoroeth	40.000	44.377	-10.9	107	0.00
12	C	Methyl iodide	40.000	28.592	28.5#	73	0.00
13	CP	Acetone	40.000	29.419	26.5#	82	0.00
14	CP	Carbon disulfide	40.000	44.888	-12.2	111	0.00
15	C	Allyl chloride	40.000	42.390	-6.0	102	0.00
16	CP	Methyl acetate	40.000	33.020	17.4	93	0.00
17	C	Acetonitrile	40.000	37.481	6.3	98	0.00
18	CP	Methylene chloride	40.000	40.165	-0.4	103	0.00
19	C	t-Butanol	200.000	132.745	33.6#	57	0.00
20	CP	trans-1,2-Dichloroethene	40.000	44.223	-10.6	107	0.00
21	C	Acrylonitrile	40.000	38.126	4.7	96	0.00
22	CP	Methyl tert-butyl ether	40.000	35.344	11.6	98	0.00
23	C	Hexane	40.000	45.823	-14.6	107	0.00
24	CP	1,1-Dichloroethane	40.000	42.899	-7.2	105	0.00
25	C	Diisopropyl ether	40.000	37.845	5.4	101	0.00
26	C	Vinyl acetate	40.000	42.852	-7.1	107	0.00
27	C	Chloroprene	40.000	45.328	-13.3	108	0.00
28		n-Butanol	400.000	378.099	5.5	98	-0.01
29	C	Ethyl tert butyl ether	40.000	36.925	7.7	100	0.00
30	C	2,2-Dichloropropane	40.000	44.638	-11.6	111	0.00
31	CP	cis-1,2-Dichloroethene	40.000	42.015	-5.0	105	0.00
32	CP	2-Butanone	40.000	29.285	26.8#	84	0.00
33	C	Ethyl Acetate	40.000	38.214	4.5	92	0.00
34	C	Methyl acrylate	40.000	35.606	11.0	102	0.00
35	C	Propionitrile	40.000	44.680	-11.7	107	0.00
36	C	Bromochloromethane	40.000	41.594	-4.0	101	0.00
37	C	Tetrahydrofuran	40.000	32.210	19.5	87	0.00
38	C	Methacrylonitrile	40.000	34.403	14.0	94	0.00
39	CP	Chloroform	40.000	42.153	-5.4	103	0.00
40	CP	Cyclohexane	40.000	43.992	-10.0	104	0.00
41	C	Isobutyl Alcohol	40.000	35.594	11.0	99	0.00
42	I	1,4-Difluorobenzene	20.000	20.000	0.0	104	0.00
43	CP	1,1,1-Trichloroethane	40.000	44.401	-11.0	105	0.00
44	S	Dibromofluoromethane	20.000	20.424	-2.1	104	0.00
45	CP	Carbon tetrachloride	40.000	39.611	1.0	105	0.00
46	C	1,1-Dichloropropene	40.000	41.948	-4.9	107	0.00
47	C	2,2,4-Trimethylpentane	40.000	47.615	-19.0	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	S	1,2-Dichloroethane-d4	20.000	19.309	3.5	100	0.00
49	CP	1,2-Dichloroethane	40.000	39.058	2.4	99	0.00
50	CP	Benzene	40.000	42.431	-6.1	105	0.00
51	C	Tertiaryamylmethylether	40.000	36.258	9.4	98	0.00
52	C	Heptane	40.000	44.310	-10.8	114	0.00
53	CP	Methylcyclohexane	40.000	43.835	-9.6	104	0.00
54	CP	Trichloroethene	40.000	43.006	-7.5	104	0.00
55	CP	1,2-Dichloropropane	40.000	41.861	-4.7	102	0.00
56	C	Dibromomethane	40.000	39.759	0.6	99	0.00
57	C	Methyl methacrylate	40.000	33.451	16.4	94	0.00
58	C	1,4-Dioxane	4000.000	2597.194	35.1#	59	0.00
59	CP	Bromodichloromethane	40.000	36.782	8.0	100	0.00
60	C	2-Nitropropane	40.000	33.167	17.1	85	0.00
61	CP	cis-1,3-Dichloropropene	40.000	37.167	7.1	99	0.00
62	T	2-Chloroethyl vinyl ether	40.000	32.935	17.7	91	0.00
63	I	Chlorobenzene-d5	20.000	20.000	0.0	105	0.00
64	CP	4-Methyl-2-pentanone	40.000	31.002	22.5#	87	0.00
65	S	Toluene-d8	20.000	20.238	-1.2	104	0.00
66	CP	Toluene	40.000	41.811	-4.5	104	0.00
67	c	Chloropicrin	400.000	414.289	-3.6	116	0.00
68	CP	trans-1,3-Dichloropropene	40.000	37.084	7.3	99	0.00
69	C	Ethyl methacrylate	40.000	35.413	11.5	96	0.00
70	CP	1,1,2-Trichloroethane	40.000	41.047	-2.6	98	0.00
71	CP	Tetrachloroethene	40.000	41.654	-4.1	103	0.00
72	C	1,3-Dichloropropane	40.000	40.681	-1.7	99	0.00
73	CP	2-Hexanone	40.000	29.890	25.3#	86	0.00
74	CP	Chlorodibromomethane	40.000	36.909	7.7	100	0.00
75	C	Butyl acetate	40.000	33.040	17.4	95	0.00
76	CP	1,2-Dibromoethane	40.000	37.059	7.4	97	0.00
77	CP	Chlorobenzene	40.000	40.914	-2.3	101	0.00
78	C	1,1,1,2-Tetrachloroethane	40.000	37.735	5.7	100	0.00
79	CP	Ethylbenzene	40.000	39.098	2.3	102	0.00
80	CP	m/p-Xylene	80.000	78.409	2.0	102	0.00
81	CP	Styrene	40.000	39.197	2.0	103	0.00
82	CP	o-Xylene	40.000	38.827	2.9	101	0.00
83	CP	Bromoform	40.000	36.200	9.5	96	0.00
84	CP	Isopropylbenzene	40.000	42.776	-6.9	101	0.00
85	S	Bromofluorobenzene	20.000	19.986	0.1	103	0.00
86	C	Bromobenzene	40.000	40.847	-2.1	101	0.00
87	CP	1,1,2,2-Tetrachloroethane	40.000	40.615	-1.5	97	0.00
88	C	1,2,3-Trichloropropane	40.000	38.446	3.9	95	0.00
89	C	trans-1,4-Dichloro-2-butene	40.000	33.950	15.1	87	0.00
90	C	n-Propylbenzene	40.000	43.285	-8.2	101	0.00
91	C	2-Chlorotoluene	40.000	40.621	-1.6	100	0.00
92	C	4-Chlorotoluene	40.000	42.456	-6.1	101	0.00
93	C	1,3,5-Trimethylbenzene	40.000	39.158	2.1	102	0.00
94	C	Cyclohexanone	200.000	167.187	16.4	76	0.00

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
95	C	tert-Butylbenzene	40.000	43.315	-8.3	104	0.00
96	C	Pentachloroethane	40.000	42.843	-7.1	108	0.00
97	C	1,2,4-Trimethylbenzene	40.000	38.938	2.7	102	0.00
98	C	sec-Butylbenzene	40.000	45.339	-13.3	106	0.00
99	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	106	0.00
100	CP	1,3-Dichlorobenzene	40.000	41.749	-4.4	101	0.00
101	C	p-Isopropyltoluene	40.000	40.266	-0.7	105	0.00
102	CP	1,4-Dichlorobenzene	40.000	40.402	-1.0	101	0.00
103	C	1,2,3-Trimethylbenzene	40.000	43.173	-7.9	102	0.00
104	C	Benzyl chloride	40.000	35.693	10.8	104	0.00
105	CP	1,2-Dichlorobenzene	40.000	41.420	-3.6	100	0.00
106	C	n-Butylbenzene	40.000	41.033	-2.6	108	0.00
107	C	Hexachloroethane	40.000	37.659	5.9	103	0.00
108	CP	1,2-Dibromo-3-chloropropane	40.000	31.022	22.4#	89	0.00
109	C	1,3,5-Trichlorobenzene	40.000	44.625	-11.6	108	0.00
110	CP	1,2,4-Trichlorobenzene	40.000	42.698	-6.7	103	0.00
111	C	Hexachlorobutadiene	40.000	44.790	-12.0	113	0.00
112	C	Naphthalene	40.000	32.392	19.0	90	0.00
113	C	1,2,3-Trichlorobenzene	40.000	40.485	-1.2	98	0.00
114	C	2-Methylnaphthalene	40.000	27.943	30.1#	81	0.00
115	c	1-Methylnaphthalene	40.000	26.273	34.3#	77	0.00
116	I	Ethyl Acetate-d8	20.000	20.000	0.0	88	-0.01
117	C	2-Propanone	40.000	33.930	15.2#	74	0.00
118	C	Acetic Ether	40.000	48.641	-21.6#	92	0.00
119	C	Isopropyl Acetate	40.000	49.231	-23.1#	93	0.00
120	C	Amyl Acetate	40.000	51.562	-28.9#	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 14

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.686	0.638	7.0	97	0.00
3	CP	Chloromethane	0.636	0.637	-0.2	105	0.00
4	CP	Vinyl chloride	0.707	0.686	3.0	101	0.00
5	CP	Bromomethane	0.213	0.238	-11.7	116	0.00
6	CP	Chloroethane	0.645	0.420	34.9#	101	0.00
7	CP	Trichlorofluoromethane	0.788	0.770	2.3	102	0.00
8	C	Ethyl ether	0.427	0.442	-3.5	99	0.00
9	C	Acrolein	0.024	0.019#	20.8#	101	0.00
10	CP	1,1-Dichloroethene	0.714	0.767	-7.4	106	0.00
11	CP	1,1,2-Trichlorotrifluoroeth	0.342	0.379	-10.8	107	0.00
12	C	Methyl iodide	0.387	0.351	9.3	73	0.00
13	CP	Acetone	0.179	0.101	43.6#	82	0.00
14	CP	Carbon disulfide	1.320	1.481	-12.2	111	0.00
15	C	Allyl chloride	0.738	0.782	-6.0	102	0.00
16	CP	Methyl acetate	0.390	0.344	11.8	93	0.00
17	C	Acetonitrile	0.366	0.300	18.0	98	0.00
18	CP	Methylene chloride	0.707	0.688	2.7	103	0.00
19	C	t-Butanol	0.034	0.020#	41.2#	57	0.00
20	CP	trans-1,2-Dichloroethene	0.717	0.792	-10.5	107	0.00
21	C	Acrylonitrile	0.149	0.172#	-15.4	96	0.00
22	CP	Methyl tert-butyl ether	1.571	1.388	11.6	98	0.00
23	C	Hexane	0.607	0.695	-14.5	107	0.00
24	CP	1,1-Dichloroethane	0.929	0.996	-7.2	105	0.00
25	C	Diisopropyl ether	1.805	1.708	5.4	101	0.00
26	C	Vinyl acetate	0.089	0.113#	-27.0#	107	0.00
27	C	Chloroprene	0.793	0.899	-13.4	108	0.00
28		n-Butanol	0.012	0.009#	25.0	98	-0.01
29	C	Ethyl tert butyl ether	1.701	1.570	7.7	100	0.00
30	C	2,2-Dichloropropane	0.701	0.782	-11.6	111	0.00
31	CP	cis-1,2-Dichloroethene	0.866	0.910	-5.1	105	0.00
32	CP	2-Butanone	0.164	0.156	4.9	84	0.00
33	C	Ethyl Acetate	0.414	0.411	0.7	92	0.00
34	C	Methyl acrylate	0.282	0.413	-46.5#	102	0.00
35	C	Propionitrile	0.054	0.068#	-25.9#	107	0.00
36	C	Bromochloromethane	0.437	0.454	-3.9	101	0.00
37	C	Tetrahydrofuran	0.126	0.132#	-4.8	87	0.00
38	C	Methacrylonitrile	0.286	0.346	-21.0#	94	0.00
39	CP	Chloroform	0.905	0.953	-5.3	103	0.00
40	CP	Cyclohexane	0.897	0.987	-10.0	104	0.00
41	C	Isobutyl Alcohol	1.285	1.103	14.2	99	0.00
42	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
43	CP	1,1,1-Trichloroethane	0.460	0.510	-10.9	105	0.00
44	S	Dibromofluoromethane	0.279	0.285	-2.2	104	0.00
45	CP	Carbon tetrachloride	0.405	0.401	1.0	105	0.00
46	C	1,1-Dichloropropene	0.492	0.515	-4.7	107	0.00
47	C	2,2,4-Trimethylpentane	0.687	0.818	-19.1	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	S	1,2-Dichloroethane-d4	0.341	0.329	3.5	100	0.00
49	CP	1,2-Dichloroethane	0.450	0.439	2.4	99	0.00
50	CP	Benzene	1.477	1.567	-6.1	105	0.00
51	C	Tertiaryamylmethylether	1.031	0.935	9.3	98	0.00
52	C	Heptane	0.257	0.324	-26.1#	114	0.00
53	CP	Methylcyclohexane	0.493	0.540	-9.5	104	0.00
54	CP	Trichloroethene	0.373	0.401	-7.5	104	0.00
55	CP	1,2-Dichloropropane	0.366	0.383	-4.6	102	0.00
56	C	Dibromomethane	0.207	0.206	0.5	99	0.00
57	C	Methyl methacrylate	0.244	0.273	-11.9	94	0.00
58	C	1,4-Dioxane	0.002	0.001#	50.0#	59	0.00
59	CP	Bromodichloromethane	0.387	0.419	-8.3	100	0.00
60	C	2-Nitropropane	0.066	0.056#	15.2	85	0.00
61	CP	cis-1,3-Dichloropropene	0.491	0.560	-14.1	99	0.00
62	T	2-Chloroethyl vinyl ether	0.184	0.200#	-8.7	91	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64	CP	4-Methyl-2-pentanone	0.317	0.281	11.4	87	0.00
65	S	Toluene-d8	1.311	1.327	-1.2	104	0.00
66	CP	Toluene	1.747	1.827	-4.6	104	0.00
67	c	Chloropicrin	0.078	0.102#	-30.8#	116	0.00
68	CP	trans-1,3-Dichloropropene	0.457	0.544	-19.0	99	0.00
69	C	Ethyl methacrylate	0.421	0.473	-12.4	96	0.00
70	CP	1,1,2-Trichloroethane	0.332	0.341	-2.7	98	0.00
71	CP	Tetrachloroethene	0.430	0.448	-4.2	103	0.00
72	C	1,3-Dichloropropane	0.595	0.606	-1.8	99	0.00
73	CP	2-Hexanone	0.196	0.183	6.6	86	0.00
74	CP	Chlorodibromomethane	0.299	0.355	-18.7	100	0.00
75	C	Butyl acetate	0.541	0.518	4.3	95	0.00
76	CP	1,2-Dibromoethane	0.314	0.327	-4.1	97	0.00
77	CP	Chlorobenzene	1.104	1.129	-2.3	101	0.00
78	C	1,1,1,2-Tetrachloroethane	0.304	0.338	-11.2	100	0.00
79	CP	Ethylbenzene	1.876	1.994	-6.3	102	0.00
80	CP	m/p-Xylene	1.413	1.520	-7.6	102	0.00
81	CP	Styrene	1.097	1.232	-12.3	103	0.00
82	CP	o-Xylene	1.410	1.504	-6.7	101	0.00
83	CP	Bromoform	0.184	0.202	-9.8	96	0.00
84	CP	Isopropylbenzene	1.670	1.786	-6.9	101	0.00
85	S	Bromofluorobenzene	0.470	0.470	0.0	103	0.00
86	C	Bromobenzene	0.693	0.707	-2.0	101	0.00
87	CP	1,1,2,2-Tetrachloroethane	0.443	0.450	-1.6	97	0.00
88	C	1,2,3-Trichloropropane	0.135	0.129#	4.4	95	0.00
89	C	trans-1,4-Dichloro-2-butene	0.107	0.112#	-4.7	87	0.00
90	C	n-Propylbenzene	1.854	2.006	-8.2	101	0.00
91	C	2-Chlorotoluene	1.167	1.185	-1.5	100	0.00
92	C	4-Chlorotoluene	1.302	1.382	-6.1	101	0.00
93	C	1,3,5-Trimethylbenzene	1.207	1.327	-9.9	102	0.00
94	C	Cyclohexanone	0.016	0.009#	43.8#	76	0.00

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
95	C	tert-Butylbenzene	0.644	0.698	-8.4	104	0.00
96	C	Pentachloroethane	0.036	0.039#	-8.3	108	0.00
97	C	1,2,4-Trimethylbenzene	1.221	1.346	-10.2	102	0.00
98	C	sec-Butylbenzene	1.373	1.557	-13.4	106	0.00
99	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
100	CP	1,3-Dichlorobenzene	1.499	1.565	-4.4	101	0.00
101	C	p-Isopropyltoluene	2.429	2.742	-12.9	105	0.00
102	CP	1,4-Dichlorobenzene	1.591	1.607	-1.0	101	0.00
103	C	1,2,3-Trimethylbenzene	2.581	2.786	-7.9	102	0.00
104	C	Benzyl chloride	1.051	1.375	-30.8#	104	0.00
105	CP	1,2-Dichlorobenzene	1.428	1.479	-3.6	100	0.00
106	C	n-Butylbenzene	1.972	2.331	-18.2	108	0.00
107	C	Hexachloroethane	0.262	0.334	-27.5#	103	0.00
108	CP	1,2-Dibromo-3-chloropropane	0.135	0.148	-9.6	89	0.00
109	C	1,3,5-Trichlorobenzene	0.744	0.830	-11.6	108	0.00
110	CP	1,2,4-Trichlorobenzene	0.715	0.763	-6.7	103	0.00
111	C	Hexachlorobutadiene	0.299	0.335	-12.0	113	0.00
112	C	Naphthalene	2.072	2.010	3.0	90	0.00
113	C	1,2,3-Trichlorobenzene	0.630	0.637	-1.1	98	0.00
114	C	2-Methylnaphthalene	0.583	0.530	9.1	81	0.00
115	c	1-Methylnaphthalene	0.436	0.368	15.6	77	0.00
116	I	Ethyl Acetate-d8	1.000	1.000	0.0	88	-0.01
117	C	2-Propanone	0.966	0.541	44.0#	74	0.00
118	C	Acetic Ether	2.521	2.462	2.3#	92	0.00
119	C	Isopropyl Acetate	0.944	1.005	-6.5	93	0.00
120	C	Amyl Acetate	4.259	5.067	-19.0	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 16

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.054	168	223484	20.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	343177	20.00	ug/L	0.00
63) Chlorobenzene-d5	10.135	117	317998	20.00	ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	149946	20.00	ug/L	0.00
116) Ethyl Acetate-d8	4.058	46	37323	20.00	ug/L	-0.01
System Monitoring Compounds						
44) Dibromofluoromethane	4.934	111	97774	20.42	ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 102.10%			
48) 1,2-Dichloroethane-d4	5.489	65	112858	19.31	ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.55%			
65) Toluene-d8	8.420	98	421882	20.24	ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 101.20%			
85) Bromofluorobenzene	11.451	95	149390	19.99	ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 99.95%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.054	85	285350	37.20	ug/L	99
3) Chloromethane	1.164	50	284603	40.32	ug/L	99
4) Vinyl chloride	1.237	62	306520	38.79	ug/L	96
5) Bromomethane	1.447	94	106183	43.42	ug/L	97
6) Chloroethane	1.526	64	187750	39.32	ug/L	97
7) Trichlorofluoromethane	1.699	101	344220	39.07	ug/L	100
8) Ethyl ether	1.908	59	197662	41.46	ug/L	99
9) Acrolein	2.024	56	8527	40.56	ug/L	89
10) 1,1-Dichloroethene	2.092	61	342820	42.98	ug/L	99
11) 1,1,2-Trichlorotrifluo...	2.102	151	169383	44.38	ug/L	100
12) Methyl iodide	2.212	142	156685	28.59	ug/L	98
13) Acetone	2.134	43	44957m	29.42	ug/L	
14) Carbon disulfide	2.270	76	661986	44.89	ug/L	99
15) Allyl chloride	2.412	41	349736	42.39	ug/L	99
16) Methyl acetate	2.412	43	153946	33.02	ug/L	99
17) Acetonitrile	2.805	41	134271	37.48	ug/L	97
18) Methylene chloride	2.537	49	307665	40.16	ug/L	99
19) t-Butanol	2.653	59	45704	132.75	ug/L #	88
20) trans-1,2-Dichloroethene	2.810	61	354134	44.22	ug/L	99
21) Acrylonitrile	2.779	53	77028	38.13	ug/L	96
22) Methyl tert-butyl ether	2.805	73	620330	35.34	ug/L	99
23) Hexane	3.119	57	310830	45.82	ug/L	98
24) 1,1-Dichloroethane	3.313	63	445259	42.90	ug/L	99
25) Diisopropyl ether	3.376	45	763312	37.85	ug/L #	53
26) Vinyl acetate	3.345	86	50457	42.85	ug/L #	90
27) Chloroprene	3.397	53	401909	45.33	ug/L	99
28) n-Butanol	3.874	56	40717	378.10	ug/L #	96
29) Ethyl tert butyl ether	3.880	59	701750	36.92	ug/L	99
30) 2,2-Dichloropropane	4.089	77	349548	44.64	ug/L	99
31) cis-1,2-Dichloroethene	4.100	61	406549	42.02	ug/L	99
32) 2-Butanone	4.121	43	69813	29.28	ug/L	99
33) Ethyl Acetate	4.220	43	183757	38.21	ug/L	99
34) Methyl acrylate	4.268	55	184524	35.61	ug/L	98
35) Propionitrile	4.970	54	30615	44.68	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.467	49	203057	41.59 ug/L	98
37) Tetrahydrofuran	4.488	42	59110	32.21 ug/L	98
38) Methacrylonitrile	4.441	41	154796	34.40 ug/L	98
39) Chloroform	4.671	83	426175	42.15 ug/L	99
40) Cyclohexane	4.970	56	441088	43.99 ug/L	99
41) Isobutyl Alcohol	5.751	43	493212	35.59 ug/L #	92
43) 1,1,1-Trichloroethane	4.876	97	350088	44.40 ug/L	100
45) Carbon tetrachloride	5.122	117	275056	39.61 ug/L	99
46) 1,1-Dichloropropene	5.159	75	353773	41.95 ug/L	100
47) 2,2,4-Trimethylpentane	5.746	57	561118	47.61 ug/L	92
49) 1,2-Dichloroethane	5.626	62	301570	39.06 ug/L	100
50) Benzene	5.479	78	1075287	42.43 ug/L	100
51) Tertiaryamylmethylether	5.809	73	641706	36.26 ug/L #	99
52) Heptane	6.134	43	222339	44.31 ug/L	99
53) Methylcyclohexane	7.010	83	370739	43.83 ug/L	99
54) Trichloroethene	6.685	130	275056	43.01 ug/L	99
55) 1,2-Dichloropropane	7.083	63	262954	41.86 ug/L	99
56) Dibromomethane	7.204	93	141541	39.76 ug/L	99
57) Methyl methacrylate	7.282	41	187644	33.45 ug/L	99
58) 1,4-Dioxane	7.230	88	101785	2597.19 ug/L	87
59) Bromodichloromethane	7.508	83	287740	36.78 ug/L	100
60) 2-Nitropropane	7.822	43	38653	33.17 ug/L #	98
61) cis-1,3-Dichloropropene	8.111	75	384372	37.17 ug/L	100
62) 2-Chloroethyl vinyl ether	7.964	63	137183	32.94 ug/L	100
64) 4-Methyl-2-pentanone	8.336	43	178418	31.00 ug/L	98
66) Toluene	8.504	91	1161703	41.81 ug/L	100
67) Chloropicrin	8.840	117	646275	414.29 ug/L	100
68) trans-1,3-Dichloropropene	8.861	75	346071	37.08 ug/L	98
69) Ethyl methacrylate	8.976	69	300832	35.41 ug/L	99
70) 1,1,2-Trichloroethane	9.086	97	216959	41.05 ug/L	99
71) Tetrachloroethene	9.117	166	284984	41.65 ug/L	99
72) 1,3-Dichloropropane	9.259	76	385165	40.68 ug/L	99
73) 2-Hexanone	9.369	43	116597	29.89 ug/L	99
74) Chlorodibromomethane	9.500	129	225856	36.91 ug/L	98
75) Butyl acetate	9.547	43	329748	33.04 ug/L	99
76) 1,2-Dibromoethane	9.600	107	208196	37.06 ug/L	100
77) Chlorobenzene	10.166	112	718323	40.91 ug/L	99
78) 1,1,1,2-Tetrachloroethane	10.292	131	214809	37.73 ug/L	98
79) Ethylbenzene	10.302	91	1268037	39.10 ug/L	99
80) m/p-Xylene	10.454	91	1933512	78.41 ug/L	100
81) Styrene	10.895	104	783526	39.20 ug/L	99
82) o-Xylene	10.863	91	956402	38.83 ug/L	100
83) Bromoform	11.073	173	128689	36.20 ug/L	99
84) Isopropylbenzene	11.272	105	1135603	42.78 ug/L	99
86) Bromobenzene	11.566	77	449859	40.85 ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.629	83	286343	40.61 ug/L	100
88) 1,2,3-Trichloropropane	11.671	110	82260	38.45 ug/L	99
89) trans-1,4-Dichloro-2-b...	11.666	53	71167	33.95 ug/L	99
90) n-Propylbenzene	11.713	91	1275682	43.28 ug/L	100
91) 2-Chlorotoluene	11.781	91	753469	40.62 ug/L	100
92) 4-Chlorotoluene	11.917	91	879014	42.46 ug/L	99
93) 1,3,5-Trimethylbenzene	11.917	105	843854	39.16 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

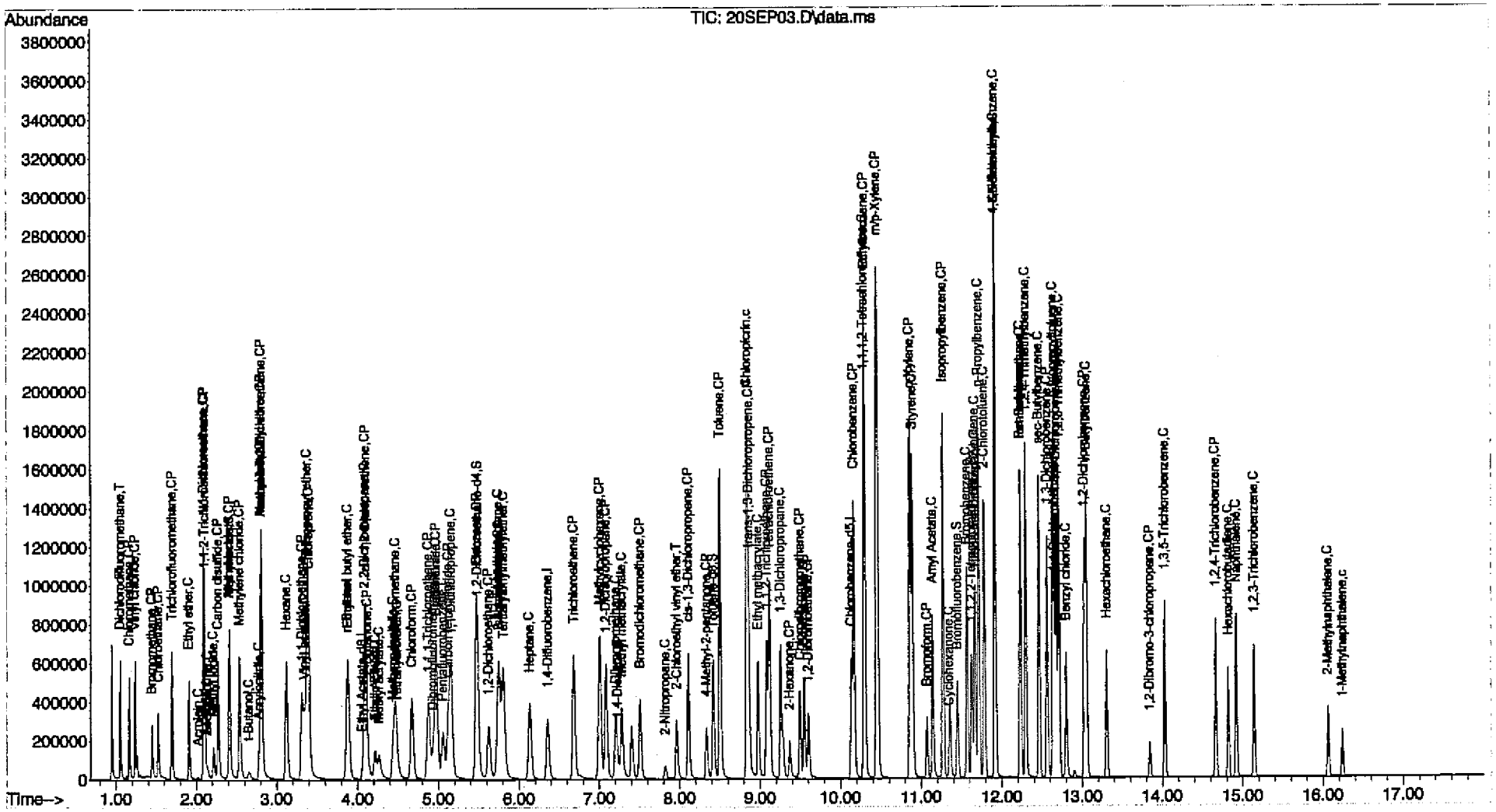
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	11.346	55	27978m	167.19 ug/L	
95) tert-Butylbenzene	12.232	91	443698	43.31 ug/L	100
96) Pentachloroethane	12.232	117	24685	42.84 ug/L #	89
97) 1,2,4-Trimethylbenzene	12.300	105	856311	38.94 ug/L	99
98) sec-Butylbenzene	12.463	105	990095	45.34 ug/L	100
100) 1,3-Dichlorobenzene	12.567	146	469318	41.75 ug/L	99
101) p-Isopropyltoluene	12.641	119	822219	40.27 ug/L	100
102) 1,4-Dichlorobenzene	12.678	146	481951	40.40 ug/L	100
103) 1,2,3-Trimethylbenzene	12.714	105	835437	43.17 ug/L	99
104) Benzyl chloride	12.803	91	412449	35.69 ug/L	100
105) 1,2-Dichlorobenzene	13.029	146	443404	41.42 ug/L	99
106) n-Butylbenzene	13.055	91	699023	41.03 ug/L	100
107) Hexachloroethane	13.307	117	100196	37.66 ug/L	99
108) 1,2-Dibromo-3-chloropr...	13.841	157	44420	31.02 ug/L	98
109) 1,3,5-Trichlorobenzene	14.030	180	248832	44.63 ug/L	99
110) 1,2,4-Trichlorobenzene	14.665	180	228805	42.70 ug/L	99
111) Hexachlorobutadiene	14.822	225	100317	44.79 ug/L	98
112) Naphthalene	14.922	128	602905	32.39 ug/L	100
113) 1,2,3-Trichlorobenzene	15.142	180	191113	40.49 ug/L	99
114) 2-Methylnaphthalene	16.064	142	159018	27.94 ug/L	100
115) 1-Methylnaphthalene	16.243	142	110282	26.27 ug/L	98
117) 2-Propanone	2.134	43	40407	33.93 ug/L	99
118) Acetic Ether	4.220	43	183757	48.64 ug/L	99
119) Isopropyl Acetate	5.751	61	74992	49.23 ug/L #	82
120) Amyl Acetate	11.141	43	378261	51.56 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP03.D
Acq On : 20 Sep 2016 11:19 am
Operator : BJG
Sample : VCCV2-160920
Misc : 200-19377 200-19374 200-19379 40PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:59:34 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	20.000	20.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	40.000	38.744	3.1	95	0.00
3	CP	Chloromethane	40.000	37.455	6.4	91	0.00
4	CP	Vinyl chloride	40.000	38.338	4.2	94	0.00
5	CP	Bromomethane	40.000	37.243	6.9	92	0.00
6	CP	Chloroethane	40.000	38.712	3.2	94	0.00
7	CP	Trichlorofluoromethane	40.000	38.939	2.7	96	0.00
8	C	Ethyl ether	40.000	40.180	-0.4	91	0.00
9	C	Acrolein	40.000	41.110	-2.8	97	0.00
10	CP	1,1-Dichloroethene	40.000	41.182	-3.0	96	0.00
11	CP	1,1,2-Trichlorotrifluoroeth	40.000	43.855	-9.6	100	0.00
12	C	Methyl iodide	40.000	28.353	29.1#	68	0.00
13	CP	Acetone	40.000	35.949	10.1	95	0.00
14	CP	Carbon disulfide	40.000	32.669	18.3	76	0.00
15	C	Allyl chloride	40.000	40.717	-1.8	92	0.00
16	CP	Methyl acetate	40.000	35.948	10.1	96	0.00
17	C	Acetonitrile	40.000	37.186	7.0	91	0.00
18	CP	Methylene chloride	40.000	38.644	3.4	93	0.00
19	C	t-Butanol	200.000	225.232	-12.6	104	0.00
20	CP	trans-1,2-Dichloroethene	40.000	42.440	-6.1	97	0.00
21	C	Acrylonitrile	40.000	41.443	-3.6	99	0.00
22	CP	Methyl tert-butyl ether	40.000	34.811	13.0	91	0.00
23	C	Hexane	40.000	43.363	-8.4	96	0.00
24	CP	1,1-Dichloroethane	40.000	41.285	-3.2	95	0.00
25	C	Diisopropyl ether	40.000	37.006	7.5	93	0.00
26	C	Vinyl acetate	40.000	41.683	-4.2	98	0.00
27	C	Chloroprene	40.000	44.157	-10.4	99	0.00
28		n-Butanol	400.000	403.133	-0.8	98	0.00
29	C	Ethyl tert butyl ether	40.000	35.572	11.1	90	0.00
30	C	2,2-Dichloropropane	40.000	41.983	-5.0	98	0.00
31	CP	cis-1,2-Dichloroethene	40.000	40.437	-1.1	95	0.00
32	CP	2-Butanone	40.000	37.119	7.2	102	0.00
33	C	Ethyl Acetate	40.000	42.645	-6.6	99	0.00
34	C	Methyl acrylate	40.000	37.237	6.9	101	0.00
35	C	Propionitrile	40.000	47.880	-19.7	108	0.00
36	C	Bromochloromethane	40.000	40.433	-1.1	93	0.00
37	C	Tetrahydrofuran	40.000	37.359	6.6	95	0.00
38	C	Methacrylonitrile	40.000	36.753	8.1	95	0.00
39	CP	Chloroform	40.000	40.853	-2.1	94	0.00
40	CP	Cyclohexane	40.000	44.538	-11.3	99	0.00
41	C	Isobutyl Alcohol	40.000	34.383	14.0	90	0.00
42	I	1,4-Difluorobenzene	20.000	20.000	0.0	97	0.00
43	CP	1,1,1-Trichloroethane	40.000	42.725	-6.8	95	0.00
44	S	Dibromofluoromethane	20.000	19.531	2.3	93	0.00
45	CP	Carbon tetrachloride	40.000	36.325	9.2	90	0.00
46	C	1,1-Dichloropropene	40.000	41.551	-3.9	98	0.00
47	C	2,2,4-Trimethylpentane	40.000	47.708	-19.3	106	0.00

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	S	1,2-Dichloroethane-d4	20.000	19.431	2.8	94	0.00
49	CP	1,2-Dichloroethane	40.000	38.581	3.5	91	0.00
50	CP	Benzene	40.000	41.845	-4.6	97	0.00
51	C	Tertiaryamylmethylether	40.000	35.808	10.5	90	0.00
52	C	Heptane	40.000	44.031	-10.1	105	0.00
53	CP	Methylcyclohexane	40.000	44.187	-10.5	98	0.00
54	CP	Trichloroethene	40.000	42.292	-5.7	95	0.00
55	CP	1,2-Dichloropropane	40.000	41.380	-3.5	94	0.00
56	C	Dibromomethane	40.000	38.922	2.7	90	0.00
57	C	Methyl methacrylate	40.000	35.994	10.0	95	0.00
58	C	1,4-Dioxane	4000.000	5700.131	-42.5#	142	0.00
59	CP	Bromodichloromethane	40.000	32.346	19.1	82	0.00
60	C	2-Nitropropane	40.000	29.023	27.4#	68	0.00
61	CP	cis-1,3-Dichloropropene	40.000	34.480	13.8	86	0.00
62	T	2-Chloroethyl vinyl ether	40.000	35.299	11.8	91	0.00
63	I	Chlorobenzene-d5	20.000	20.000	0.0	97	0.00
64	CP	4-Methyl-2-pentanone	40.000	34.497	13.8	91	0.00
65	S	Toluene-d8	20.000	20.062	-0.3	96	0.00
66	CP	Toluene	40.000	41.612	-4.0	96	0.00
67	c	Chloropicrin	400.000	359.169	10.2	88	0.00
68	CP	trans-1,3-Dichloropropene	40.000	35.781	10.5	89	0.00
69	C	Ethyl methacrylate	40.000	35.787	10.5	90	0.00
70	CP	1,1,2-Trichloroethane	40.000	40.869	-2.2	91	0.00
71	CP	Tetrachloroethene	40.000	41.391	-3.5	96	0.00
72	C	1,3-Dichloropropane	40.000	40.973	-2.4	93	0.00
73	CP	2-Hexanone	40.000	34.128	14.7	92	0.00
74	CP	Chlorodibromomethane	40.000	34.571	13.6	87	0.00
75	C	Butyl acetate	40.000	34.074	14.8	91	0.00
76	CP	1,2-Dibromoethane	40.000	36.333	9.2	89	0.00
77	CP	Chlorobenzene	40.000	40.787	-2.0	94	0.00
78	C	1,1,1,2-Tetrachloroethane	40.000	35.810	10.5	88	0.00
79	CP	Ethylbenzene	40.000	39.198	2.0	95	0.00
80	CP	m/p-Xylene	80.000	77.761	2.8	94	0.00
81	CP	Styrene	40.000	38.405	4.0	94	0.00
82	CP	o-Xylene	40.000	38.262	4.3	93	0.00
83	CP	Bromoform	40.000	33.609	16.0	82	0.00
84	CP	Isopropylbenzene	40.000	42.427	-6.1	93	0.00
85	S	Bromofluorobenzene	20.000	20.025	-0.1	96	0.00
86	C	Bromobenzene	40.000	39.749	0.6	92	0.00
87	CP	1,1,2,2-Tetrachloroethane	40.000	42.498	-6.2	95	0.00
88	C	1,2,3-Trichloropropane	40.000	40.729	-1.8	94	0.00
89	C	trans-1,4-Dichloro-2-butene	40.000	36.897	7.8	89	0.00
90	C	n-Propylbenzene	40.000	42.664	-6.7	93	0.00
91	C	2-Chlorotoluene	40.000	40.040	-0.1	92	0.00
92	C	4-Chlorotoluene	40.000	41.313	-3.3	92	0.00
93	C	1,3,5-Trimethylbenzene	40.000	38.612	3.5	94	0.00
94	C	Cyclohexanone	200.000	254.467	-27.2#	121	0.00

Evaluate Continuing Calibration Report

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
95	C	tert-Butylbenzene	40.000	42.417	-6.0	95	0.00
96	C	Pentachloroethane	40.000	42.504	-6.3	100	0.00
97	C	1,2,4-Trimethylbenzene	40.000	38.319	4.2	94	0.00
98	C	sec-Butylbenzene	40.000	44.763	-11.9	97	0.00
99	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	98	0.00
100	CP	1,3-Dichlorobenzene	40.000	40.802	-2.0	91	0.00
101	C	p-Isopropyltoluene	40.000	40.426	-1.1	97	0.00
102	CP	1,4-Dichlorobenzene	40.000	39.677	0.8	91	0.00
103	C	1,2,3-Trimethylbenzene	40.000	42.361	-5.9	92	0.00
104	C	Benzyl chloride	40.000	33.802	15.5	90	0.00
105	CP	1,2-Dichlorobenzene	40.000	41.171	-2.9	91	0.00
106	C	n-Butylbenzene	40.000	40.514	-1.3	98	0.00
107	C	Hexachloroethane	40.000	33.328	16.7	83	0.00
108	CP	1,2-Dibromo-3-chloropropane	40.000	32.372	19.1	86	0.00
109	C	1,3,5-Trichlorobenzene	40.000	42.511	-6.3	94	0.00
110	CP	1,2,4-Trichlorobenzene	40.000	41.444	-3.6	92	0.00
111	C	Hexachlorobutadiene	40.000	44.525	-11.3	103	0.00
112	C	Naphthalene	40.000	35.073	12.3	90	0.00
113	C	1,2,3-Trichlorobenzene	40.000	40.885	-2.2	91	0.00
114	C	2-Methylnaphthalene	40.000	35.776	10.6	97	0.00
115	c	1-Methylnaphthalene	40.000	36.552	8.6	100	0.00
116	I	Ethyl Acetate-d8	20.000	20.000	0.0	86	0.00
117	C	2-Propanone	40.000	46.792	-17.0#	95	0.00
118	C	Acetic Ether	40.000	53.246	-33.1#	99	0.00
119	C	Isopropyl Acetate	40.000	48.656	-21.6#	90	0.00
120	C	Amyl Acetate	40.000	48.718	-21.8#	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 8

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	0.686	0.665	3.1	95	0.00
3	CP	Chloromethane	0.636	0.585	8.0	91	0.00
4	CP	Vinyl chloride	0.707	0.678	4.1	94	0.00
5	CP	Bromomethane	0.213	0.200	6.1	92	0.00
6	CP	Chloroethane	0.645	0.414	35.8#	94	0.00
7	CP	Trichlorofluoromethane	0.788	0.767	2.7	96	0.00
8	C	Ethyl ether	0.427	0.429	-0.5	91	0.00
9	C	Acrolein	0.024	0.019#	20.8#	97	0.00
10	CP	1,1-Dichloroethene	0.714	0.735	-2.9	96	0.00
11	CP	1,1,2-Trichlorotrifluoroeth	0.342	0.375	-9.6	100	0.00
12	C	Methyl iodide	0.387	0.348	10.1	68	0.00
13	CP	Acetone	0.179	0.123	31.3#	95	0.00
14	CP	Carbon disulfide	1.320	1.078	18.3	76	0.00
15	C	Allyl chloride	0.738	0.752	-1.9	92	0.00
16	CP	Methyl acetate	0.390	0.376	3.6	96	0.00
17	C	Acetonitrile	0.366	0.298	18.6	91	0.00
18	CP	Methylene chloride	0.707	0.662	6.4	93	0.00
19	C	t-Butanol	0.034	0.039#	-14.7	104	0.00
20	CP	trans-1,2-Dichloroethene	0.717	0.760	-6.0	97	0.00
21	C	Acrylonitrile	0.149	0.189#	-26.8#	99	0.00
22	CP	Methyl tert-butyl ether	1.571	1.367	13.0	91	0.00
23	C	Hexane	0.607	0.658	-8.4	96	0.00
24	CP	1,1-Dichloroethane	0.929	0.959	-3.2	95	0.00
25	C	Diisopropyl ether	1.805	1.670	7.5	93	0.00
26	C	Vinyl acetate	0.089	0.109#	-22.5#	98	0.00
27	C	Chloroprene	0.793	0.876	-10.5	99	0.00
28		n-Butanol	0.012	0.010#	16.7	98	0.00
29	C	Ethyl tert butyl ether	1.701	1.512	11.1	90	0.00
30	C	2,2-Dichloropropane	0.701	0.736	-5.0	98	0.00
31	CP	cis-1,2-Dichloroethene	0.866	0.875	-1.0	95	0.00
32	CP	2-Butanone	0.164	0.201	-22.6#	102	0.00
33	C	Ethyl Acetate	0.414	0.469	-13.3	99	0.00
34	C	Methyl acrylate	0.282	0.433	-53.5#	101	0.00
35	C	Propionitrile	0.054	0.073#	-35.2#	108	0.00
36	C	Bromochloromethane	0.437	0.442	-1.1	93	0.00
37	C	Tetrahydrofuran	0.126	0.154#	-22.2#	95	0.00
38	C	Methacrylonitrile	0.286	0.371	-29.7#	95	0.00
39	CP	Chloroform	0.905	0.924	-2.1	94	0.00
40	CP	Cyclohexane	0.897	0.999	-11.4	99	0.00
41	C	Isobutyl Alcohol	1.285	1.066	17.0	90	0.00
42	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
43	CP	1,1,1-Trichloroethane	0.460	0.491	-6.7	95	0.00
44	S	Dibromofluoromethane	0.279	0.272	2.5	93	0.00
45	CP	Carbon tetrachloride	0.405	0.368	9.1	90	0.00
46	C	1,1-Dichloropropene	0.492	0.511	-3.9	98	0.00
47	C	2,2,4-Trimethylpentane	0.687	0.819	-19.2	106	0.00

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	S	1,2-Dichloroethane-d4	0.341	0.331	2.9	94	0.00
49	CP	1,2-Dichloroethane	0.450	0.434	3.6	91	0.00
50	CP	Benzene	1.477	1.545	-4.6	97	0.00
51	C	Tertiaryamylmethylether	1.031	0.923	10.5	90	0.00
52	C	Heptane	0.257	0.322	-25.3#	105	0.00
53	CP	Methylcyclohexane	0.493	0.544	-10.3	98	0.00
54	CP	Trichloroethene	0.373	0.394	-5.6	95	0.00
55	CP	1,2-Dichloropropane	0.366	0.379	-3.6	94	0.00
56	C	Dibromomethane	0.207	0.202	2.4	90	0.00
57	C	Methyl methacrylate	0.244	0.295	-20.9#	95	0.00
58	C	1,4-Dioxane	0.002	0.004#	-100.0#	142	0.00
59	CP	Bromodichloromethane	0.387	0.368	4.9	82	0.00
60	C	2-Nitropropane	0.066	0.048#	27.3#	68	0.00
61	CP	cis-1,3-Dichloropropene	0.491	0.519	-5.7	86	0.00
62	T	2-Chloroethyl vinyl ether	0.184	0.215	-16.8	91	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	CP	4-Methyl-2-pentanone	0.317	0.314	0.9	91	0.00
65	S	Toluene-d8	1.311	1.315	-0.3	96	0.00
66	CP	Toluene	1.747	1.818	-4.1	96	0.00
67	c	Chloropicrin	0.078	0.083#	-6.4	88	0.00
68	CP	trans-1,3-Dichloropropene	0.457	0.525	-14.9	89	0.00
69	C	Ethyl methacrylate	0.421	0.478	-13.5	90	0.00
70	CP	1,1,2-Trichloroethane	0.332	0.340	-2.4	91	0.00
71	CP	Tetrachloroethene	0.430	0.445	-3.5	96	0.00
72	C	1,3-Dichloropropane	0.595	0.610	-2.5	93	0.00
73	CP	2-Hexanone	0.196	0.211	-7.7	92	0.00
74	CP	Chlorodibromomethane	0.299	0.332	-11.0	87	0.00
75	C	Butyl acetate	0.541	0.535	1.1	91	0.00
76	CP	1,2-Dibromoethane	0.314	0.321	-2.2	89	0.00
77	CP	Chlorobenzene	1.104	1.126	-2.0	94	0.00
78	C	1,1,1,2-Tetrachloroethane	0.304	0.320	-5.3	88	0.00
79	CP	Ethylbenzene	1.876	1.999	-6.6	95	0.00
80	CP	m/p-Xylene	1.413	1.508	-6.7	94	0.00
81	CP	Styrene	1.097	1.207	-10.0	94	0.00
82	CP	o-Xylene	1.410	1.482	-5.1	93	0.00
83	CP	Bromoform	0.184	0.187	-1.6	82	0.00
84	CP	Isopropylbenzene	1.670	1.771	-6.0	93	0.00
85	S	Bromofluorobenzene	0.470	0.471	-0.2	96	0.00
86	C	Bromobenzene	0.693	0.688	0.7	92	0.00
87	CP	1,1,2,2-Tetrachloroethane	0.443	0.471	-6.3	95	0.00
88	C	1,2,3-Trichloropropane	0.135	0.137#	-1.5	94	0.00
89	C	trans-1,4-Dichloro-2-butene	0.107	0.122#	-14.0	89	0.00
90	C	n-Propylbenzene	1.854	1.977	-6.6	93	0.00
91	C	2-Chlorotoluene	1.167	1.168	-0.1	92	0.00
92	C	4-Chlorotoluene	1.302	1.345	-3.3	92	0.00
93	C	1,3,5-Trimethylbenzene	1.207	1.308	-8.4	94	0.00
94	C	Cyclohexanone	0.016	0.015#	6.3	121	0.00

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Min. RRF : 0.200 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
95	C	tert-Butylbenzene	0.644	0.683	-6.1	95	0.00
96	C	Pentachloroethane	0.036	0.039#	-8.3	100	0.00
97	C	1,2,4-Trimethylbenzene	1.221	1.325	-8.5	94	0.00
98	C	sec-Butylbenzene	1.373	1.537	-11.9	97	0.00
99	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
100	CP	1,3-Dichlorobenzene	1.499	1.529	-2.0	91	0.00
101	C	p-Isopropyltoluene	2.429	2.753	-13.3	97	0.00
102	CP	1,4-Dichlorobenzene	1.591	1.578	0.8	91	0.00
103	C	1,2,3-Trimethylbenzene	2.581	2.733	-5.9	92	0.00
104	C	Benzyl chloride	1.051	1.298	-23.5#	90	0.00
105	CP	1,2-Dichlorobenzene	1.428	1.470	-2.9	91	0.00
106	C	n-Butylbenzene	1.972	2.301	-16.7	98	0.00
107	C	Hexachloroethane	0.262	0.294	-12.2	83	0.00
108	CP	1,2-Dibromo-3-chloropropane	0.135	0.155	-14.8	86	0.00
109	C	1,3,5-Trichlorobenzene	0.744	0.790	-6.2	94	0.00
110	CP	1,2,4-Trichlorobenzene	0.715	0.741	-3.6	92	0.00
111	C	Hexachlorobutadiene	0.299	0.333	-11.4	103	0.00
112	C	Naphthalene	2.072	2.182	-5.3	90	0.00
113	C	1,2,3-Trichlorobenzene	0.630	0.644	-2.2	91	0.00
114	C	2-Methylnaphthalene	0.583	0.688	-18.0	97	0.00
115	c	1-Methylnaphthalene	0.436	0.521	-19.5	100	0.00
116	I	Ethyl Acetate-d8	1.000	1.000	0.0	86	0.00
117	C	2-Propanone	0.966	0.705	27.0#	95	0.00
118	C	Acetic Ether	2.521	2.688	-6.6#	99	0.00
119	C	Isopropyl Acetate	0.944	0.993	-5.2	90	0.00
120	C	Amyl Acetate	4.259	4.797	-12.6	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 17

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.054	168	210589	20.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.354	114	319961	20.00	ug/L	0.00
63) Chlorobenzene-d5	10.135	117	296381	20.00	ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.651	152	137906	20.00	ug/L	0.00
116) Ethyl Acetate-d8	4.063	46	36745	20.00	ug/L	# 0.00
System Monitoring Compounds						
44) Dibromofluoromethane	4.928	111	87171	19.53	ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 97.65%			
48) 1,2-Dichloroethane-d4	5.489	65	105891	19.43	ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 97.15%			
65) Toluene-d8	8.420	98	389789	20.06	ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 100.30%			
85) Bromofluorobenzene	11.451	95	139502	20.02	ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 100.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.048	85	280020	38.74	ug/L	100
3) Chloromethane	1.164	50	246182	37.45	ug/L	99
4) Vinyl chloride	1.237	62	285501	38.34	ug/L	100
5) Bromomethane	1.442	94	84212	37.24	ug/L	100
6) Chloroethane	1.520	64	174279	38.71	ug/L	99
7) Trichlorofluoromethane	1.693	101	323242	38.94	ug/L	100
8) Ethyl ether	1.908	59	180513	40.18	ug/L	100
9) Acrolein	2.018	56	8170	41.11	ug/L	82
10) 1,1-Dichloroethene	2.086	61	309539	41.18	ug/L	99
11) 1,1,2-Trichlorotrifluo...	2.097	151	157735	43.86	ug/L	99
12) Methyl iodide	2.212	142	146394m	28.35	ug/L	
13) Acetone	2.134	43	51797	35.95	ug/L	99
14) Carbon disulfide	2.270	76	453980	32.67	ug/L	100
15) Allyl chloride	2.412	41	316554	40.72	ug/L	98
16) Methyl acetate	2.412	43	158470	35.95	ug/L	98
17) Acetonitrile	2.805	41	125524	37.19	ug/L	98
18) Methylene chloride	2.537	49	278968	38.64	ug/L	99
19) t-Butanol	2.658	59	82689	225.23	ug/L	93
20) trans-1,2-Dichloroethene	2.810	61	320252	42.44	ug/L	99
21) Acrylonitrile	2.779	53	79675	41.44	ug/L	100
22) Methyl tert-butyl ether	2.805	73	575712	34.81	ug/L	99
23) Hexane	3.119	57	277170	43.36	ug/L	99
24) 1,1-Dichloroethane	3.308	63	403786	41.29	ug/L	100
25) Diisopropyl ether	3.376	45	703323	37.01	ug/L	93
26) Vinyl acetate	3.340	86	46008	41.68	ug/L #	83
27) Chloroprene	3.392	53	368932	44.16	ug/L	99
28) n-Butanol	3.880	56	40873	403.13	ug/L #	93
29) Ethyl tert butyl ether	3.880	59	637027	35.57	ug/L	99
30) 2,2-Dichloropropane	4.089	77	309793	41.98	ug/L	98
31) cis-1,2-Dichloroethene	4.095	61	368695	40.44	ug/L	99
32) 2-Butanone	4.121	43	84520	37.12	ug/L	97
33) Ethyl Acetate	4.215	43	197511	42.65	ug/L	99
34) Methyl acrylate	4.262	55	182326	37.24	ug/L	97
35) Propionitrile	4.970	54	30868	47.88	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.467	49	186003	40.43 ug/L	97
37) Tetrahydrofuran	4.483	42	64981	37.36 ug/L	98
38) Methacrylonitrile	4.435	41	156308	36.75 ug/L	98
39) Chloroform	4.671	83	389204	40.85 ug/L	99
40) Cyclohexane	4.970	56	420797	44.54 ug/L	99
41) Isobutyl Alcohol	5.751	43	448842	34.38 ug/L #	90
43) 1,1,1-Trichloroethane	4.876	97	314082	42.73 ug/L	100
45) Carbon tetrachloride	5.122	117	235173	36.33 ug/L	100
46) 1,1-Dichloropropene	5.154	75	326716	41.55 ug/L	100
47) 2,2,4-Trimethylpentane	5.746	57	524180	47.71 ug/L	91
49) 1,2-Dichloroethane	5.626	62	277737	38.58 ug/L	99
50) Benzene	5.473	78	988714	41.85 ug/L	100
51) Tertiaryamylmethylether	5.804	73	590868	35.81 ug/L #	98
52) Heptane	6.134	43	205997	44.03 ug/L	99
53) Methylcyclohexane	7.004	83	348432	44.19 ug/L	98
54) Trichloroethene	6.685	130	252194	42.29 ug/L	99
55) 1,2-Dichloropropane	7.083	63	242344	41.38 ug/L	99
56) Dibromomethane	7.204	93	129187	38.92 ug/L	98
57) Methyl methacrylate	7.282	41	188752	35.99 ug/L	97
58) 1,4-Dioxane	7.230	88	247271	5700.13 ug/L	88
59) Bromodichloromethane	7.508	83	235280	32.35 ug/L	100
60) 2-Nitropropane	7.822	43	30847	29.02 ug/L #	97
61) cis-1,3-Dichloropropene	8.111	75	331956	34.48 ug/L	100
62) 2-Chloroethyl vinyl ether	7.964	63	137369	35.30 ug/L	99
64) 4-Methyl-2-pentanone	8.336	43	185880	34.50 ug/L	98
66) Toluene	8.504	91	1077561	41.61 ug/L	100
67) Chloropicrin	8.845	117	493123	359.17 ug/L	99
68) trans-1,3-Dichloropropene	8.861	75	310915	35.78 ug/L	99
69) Ethyl methacrylate	8.976	69	283425	35.79 ug/L	100
70) 1,1,2-Trichloroethane	9.081	97	201337	40.87 ug/L	98
71) Tetrachloroethene	9.117	166	263939	41.39 ug/L	100
72) 1,3-Dichloropropane	9.259	76	361557	40.97 ug/L	99
73) 2-Hexanone	9.369	43	124960	34.13 ug/L	99
74) Chlorodibromomethane	9.500	129	196811	34.57 ug/L	98
75) Butyl acetate	9.547	43	317370	34.07 ug/L	99
76) 1,2-Dibromoethane	9.605	107	190212	36.33 ug/L	99
77) Chlorobenzene	10.166	112	667421	40.79 ug/L	100
78) 1,1,1,2-Tetrachloroethane	10.292	131	189883	35.81 ug/L	99
79) Ethylbenzene	10.302	91	1184849	39.20 ug/L	100
80) m/p-Xylene	10.454	91	1787198	77.76 ug/L	100
81) Styrene	10.895	104	715427	38.41 ug/L	100
82) o-Xylene	10.863	91	878394	38.26 ug/L	100
83) Bromoform	11.073	173	110692	33.61 ug/L	99
84) Isopropylbenzene	11.272	105	1049786	42.43 ug/L	99
86) Bromobenzene	11.571	77	408009	39.75 ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.629	83	279256	42.50 ug/L	100
88) 1,2,3-Trichloropropane	11.671	110	81220	40.73 ug/L	99
89) trans-1,4-Dichloro-2-b...	11.666	53	72582	36.90 ug/L	96
90) n-Propylbenzene	11.713	91	1171931	42.66 ug/L	100
91) 2-Chlorotoluene	11.781	91	692208	40.04 ug/L	100
92) 4-Chlorotoluene	11.917	91	797198	41.31 ug/L	100
93) 1,3,5-Trimethylbenzene	11.917	105	775485	38.61 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

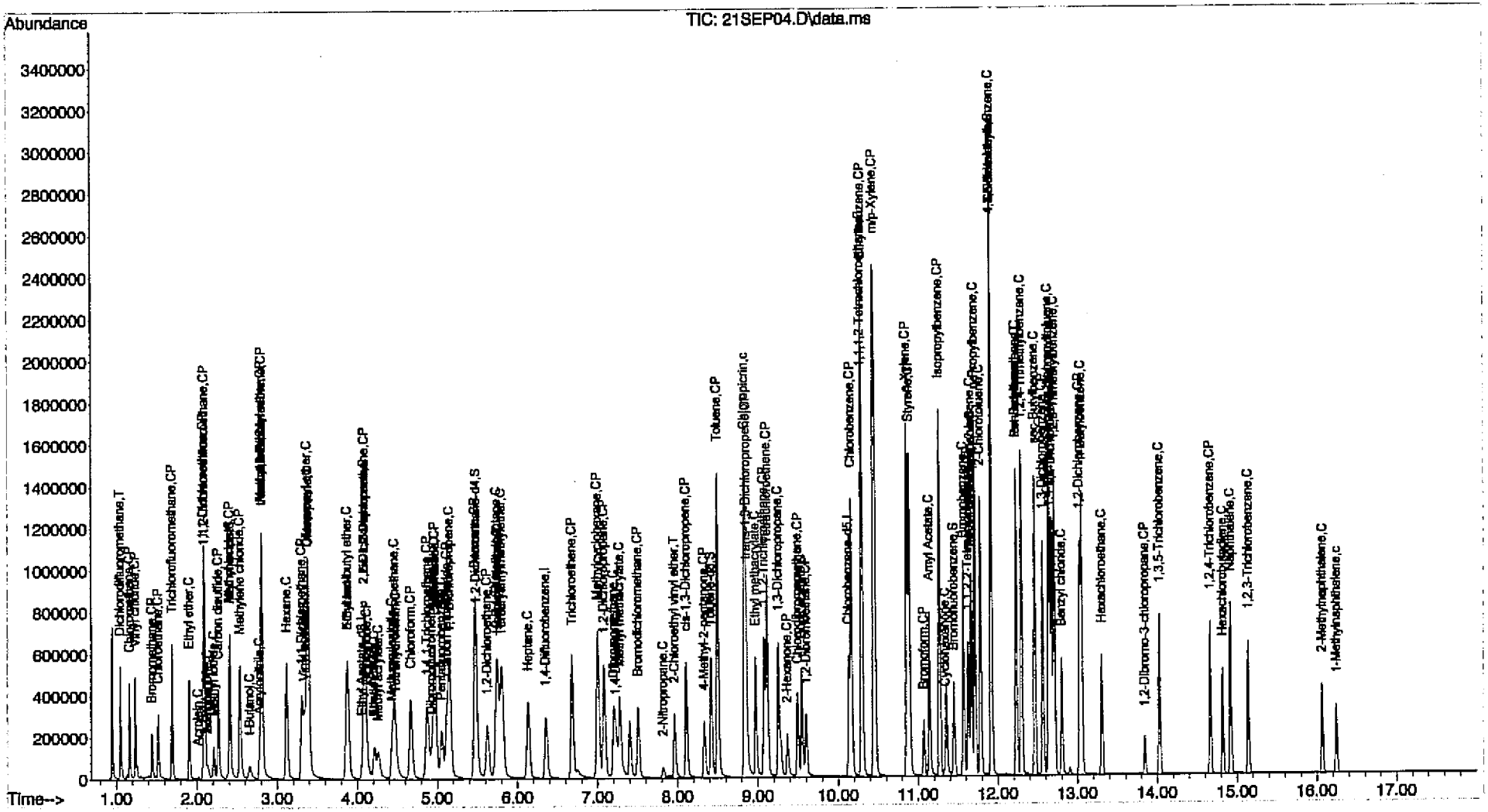
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	11.346	55	44613	254.47 ug/L	98
95) tert-Butylbenzene	12.232	91	404960	42.42 ug/L	99
96) Pentachloroethane	12.232	117	22825	42.50 ug/L #	86
97) 1,2,4-Trimethylbenzene	12.300	105	785346	38.32 ug/L	99
98) sec-Butylbenzene	12.468	105	911068	44.76 ug/L	100
100) 1,3-Dichlorobenzene	12.567	146	421844	40.80 ug/L	99
101) p-Isopropyltoluene	12.641	119	759217	40.43 ug/L	99
102) 1,4-Dichlorobenzene	12.677	146	435305	39.68 ug/L	100
103) 1,2,3-Trimethylbenzene	12.714	105	753900	42.36 ug/L	99
104) Benzyl chloride	12.803	91	358055	33.80 ug/L	99
105) 1,2-Dichlorobenzene	13.029	146	405353	41.17 ug/L	100
106) n-Butylbenzene	13.055	91	634742	40.51 ug/L	100
107) Hexachloroethane	13.307	117	80982	33.33 ug/L	97
108) 1,2-Dibromo-3-chloropr...	13.847	157	42728	32.37 ug/L	99
109) 1,3,5-Trichlorobenzene	14.030	180	218008	42.51 ug/L	99
110) 1,2,4-Trichlorobenzene	14.665	180	204252	41.44 ug/L	100
111) Hexachlorobutadiene	14.822	225	91716	44.53 ug/L	98
112) Naphthalene	14.921	128	601738	35.07 ug/L	100
113) 1,2,3-Trichlorobenzene	15.142	180	177503	40.89 ug/L	100
114) 2-Methylnaphthalene	16.064	142	189781	35.78 ug/L	98
115) 1-Methylnaphthalene	16.243	142	143653	36.55 ug/L	99
117) 2-Propanone	2.134	43	51797	46.79 ug/L	99
118) Acetic Ether	4.215	43	197511	53.25 ug/L	99
119) Isopropyl Acetate	5.757	61	73007	48.66 ug/L #	94
120) Amyl Acetate	11.141	43	352556	48.72 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP04.D
Acq On : 21 Sep 2016 12:24 pm
Operator : BJG
Sample : VCCV1-160921
Misc : 200-19362 20PPB
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 13:00:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

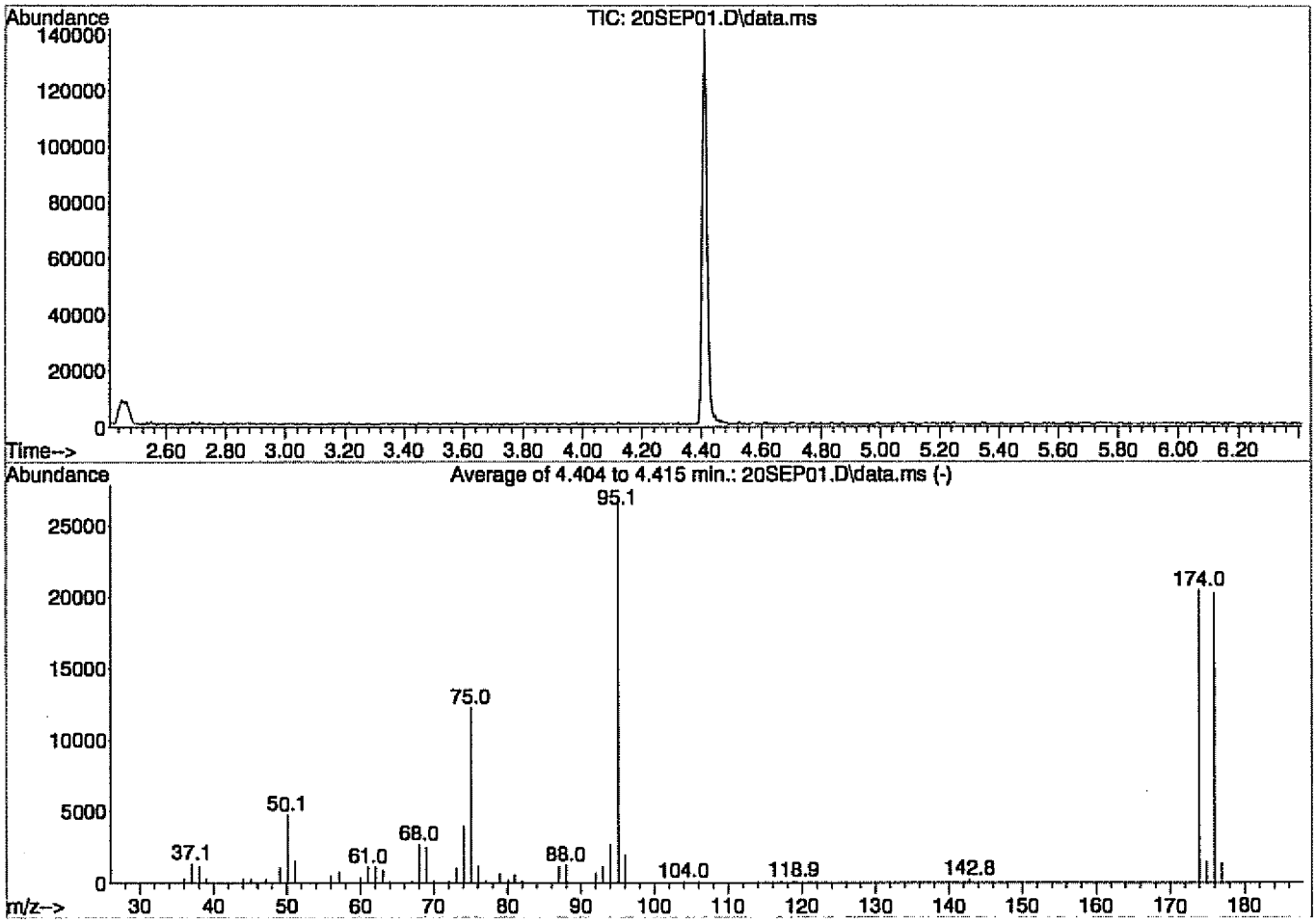


BFB

Data Path : H:\VMS6\6V160920\
Data File : 20SEP01.D
Acq On : 20 Sep 2016 9:54 am
Operator : BJG
Sample : VBFB1-160920
Misc : 200-19271
ALS Vial : 1 Sample Multiplier: 1

Integration File: 8260.P

Method : H:\VMS6\6AC0916B.M
Title : 8260B/624 Volatile Calibration
Last Update : Thu Jun 11 12:20:15 2009



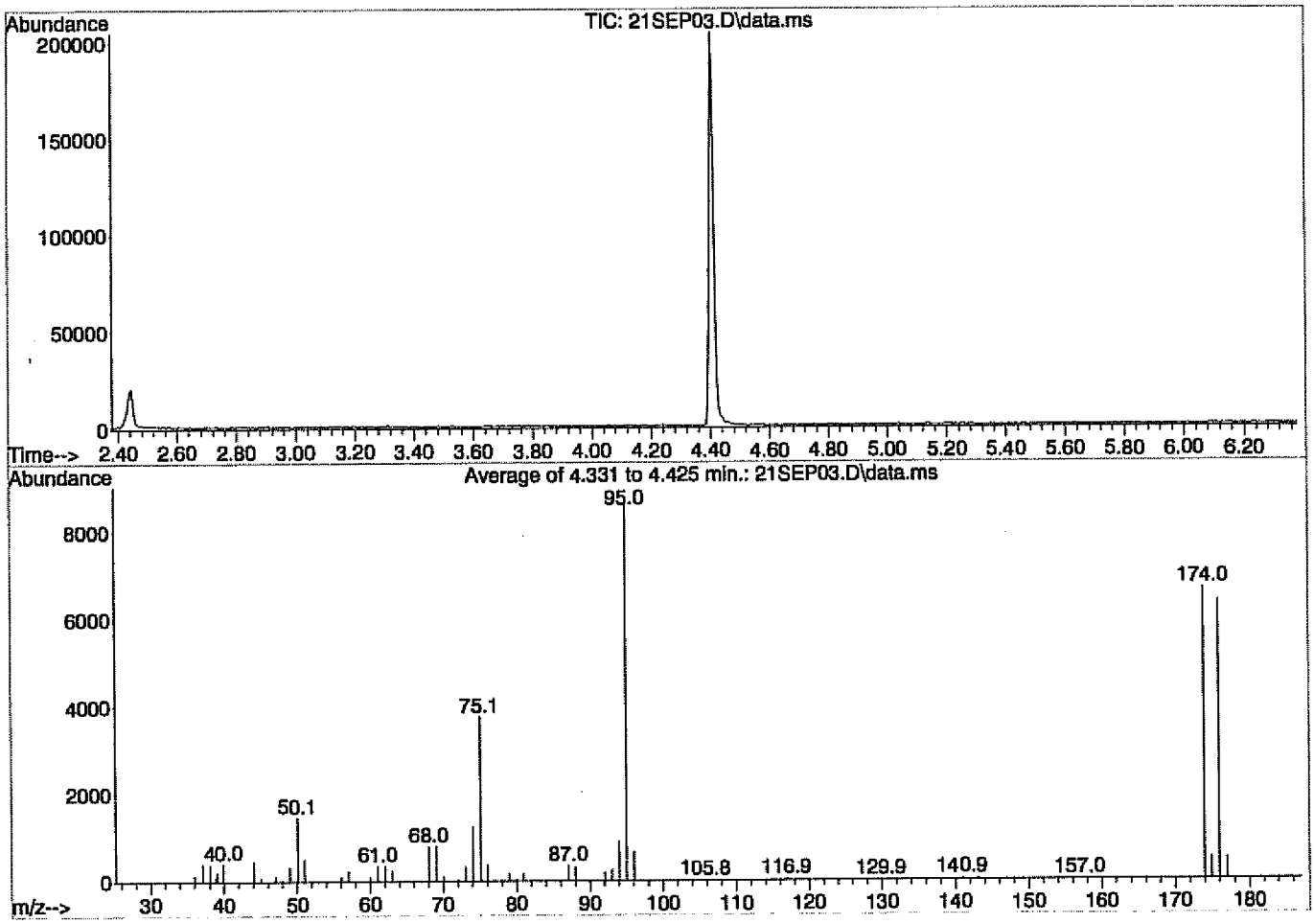
Spectrum Information: Average of 4.404 to 4.415 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	4750	PASS
75	95	30	60	46.3	12235	PASS
95	95	100	100	100.0	26453	PASS
96	95	5	9	7.4	1963	PASS
173	174	0.00	2	0.4	85	PASS
174	95	50	100	77.2	20433	PASS
175	174	5	9	7.2	1476	PASS
176	174	95	101	99.0	20236	PASS
177	176	5	9	6.7	1354	PASS

Data Path : H:\VMS6\6V160921\
Data File : 21SEP03.D
Acq On : 21 Sep 2016 12:03 pm
Operator : BJG
Sample : VBFB1-160921
Misc : 200-19271
ALS Vial : 1 Sample Multiplier: 1

Integration File: 8260.P

Method : H:\VMS6\6AC0916B.M
Title : 8260B/624 Volatile Calibration
Last Update : Thu Jun 11 12:20:15 2009



Spectrum Information: Average of 4.331 to 4.425 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	1460	PASS
75	95	30	60	43.7	3752	PASS
95	95	100	100	100.0	8585	PASS
96	95	5	9	7.7	661	PASS
173	174	0.00	2	0.3	18	PASS
174	95	50	100	77.5	6654	PASS
175	174	5	9	7.5	498	PASS
176	174	95	101	95.5	6357	PASS
177	176	5	9	7.5	478	PASS

Data Path : H:\VMS6\6V160920\
Data File : 20SEP07.D
Acq On : 20 Sep 2016 1:14 pm
Operator : BJG
Sample : VBLKW1-160920
Misc : IS\SS 200-19208
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 09:01:36 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.059	168	216578	20.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	334511	20.00	ug/L	0.00
63) Chlorobenzene-d5	10.135	117	303122	20.00	ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	140617	20.00	ug/L	# 0.00
116) Ethyl Acetate-d8	4.069	46	26221	20.00	ug/L	# 0.00
System Monitoring Compounds						
44) Dibromofluoromethane	4.934	111	90027	19.29	ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 96.45%			
48) 1,2-Dichloroethane-d4	5.489	65	111427	19.56	ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 97.80%			
65) Toluene-d8	8.420	98	391949	19.72	ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 98.60%			
85) Bromofluorobenzene	11.451	95	139094	19.52	ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 97.60%			

Target Compounds			Qvalue
2) Dichlorodifluoromethane	0.000	0	N.D.
3) Chloromethane	0.000	0	N.D.
4) Vinyl chloride	0.000	0	N.D.
5) Bromomethane	0.000	0	N.D.
6) Chloroethane	0.000	0	N.D.
7) Trichlorofluoromethane	0.000	0	N.D.
8) Ethyl ether	0.000	0	N.D.
9) Acrolein	0.000	0	N.D.
10) 1,1-Dichloroethene	0.000	0	N.D.
11) 1,1,2-Trichlorotrifluo...	0.000	0	N.D.
12) Methyl iodide	0.000	0	N.D.
13) Acetone	0.000	0	N.D.
14) Carbon disulfide	0.000	0	N.D.
15) Allyl chloride	0.000	0	N.D.
16) Methyl acetate	0.000	0	N.D.
17) Acetonitrile	0.000	0	N.D.
18) Methylene chloride	0.000	0	N.D.
19) t-Butanol	0.000	0	N.D.
20) trans-1,2-Dichloroethene	0.000	0	N.D.
21) Acrylonitrile	0.000	0	N.D.
22) Methyl tert-butyl ether	0.000	0	N.D.
23) Hexane	0.000	0	N.D.
24) 1,1-Dichloroethane	0.000	0	N.D.
25) Diisopropyl ether	0.000	0	N.D.
26) Vinyl acetate	0.000	0	N.D.
27) Chloroprene	0.000	0	N.D.
28) n-Butanol	0.000	0	N.D.
29) Ethyl tert butyl ether	0.000	0	N.D.
30) 2,2-Dichloropropane	0.000	0	N.D.
31) cis-1,2-Dichloroethene	0.000	0	N.D.
32) 2-Butanone	0.000	0	N.D.
33) Ethyl Acetate	0.000	0	N.D.
34) Methyl acrylate	0.000	0	N.D.
35) Propionitrile	0.000	0	N.D.

Data Path : H:\VMS6\6V160920\
Data File : 20SEP07.D
Acq On : 20 Sep 2016 1:14 pm
Operator : BJG
Sample : VBLKW1-160920
Misc : IS\SS 200-19208
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 09:01:36 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	0.000		0	N.D.	
37) Tetrahydrofuran	0.000		0	N.D.	
38) Methacrylonitrile	0.000		0	N.D.	
39) Chloroform	0.000		0	N.D.	
40) Cyclohexane	0.000		0	N.D.	
41) Isobutyl Alcohol	0.000		0	N.D.	
43) 1,1,1-Trichloroethane	0.000		0	N.D.	
45) Carbon tetrachloride	0.000		0	N.D.	d
46) 1,1-Dichloropropene	0.000		0	N.D.	
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	0.000		0	N.D.	
50) Benzene	0.000		0	N.D.	
51) Tertiaryamylmethylether	0.000		0	N.D.	
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	0.000		0	N.D.	
54) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
56) Dibromomethane	0.000		0	N.D.	
57) Methyl methacrylate	0.000		0	N.D.	
58) 1,4-Dioxane	0.000		0	N.D.	
59) Bromodichloromethane	0.000		0	N.D.	
60) 2-Nitropropane	0.000		0	N.D.	
61) cis-1,3-Dichloropropene	0.000		0	N.D.	
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	0.000		0	N.D.	
66) Toluene	0.000		0	N.D.	
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	0.000		0	N.D.	
69) Ethyl methacrylate	0.000		0	N.D.	
70) 1,1,2-Trichloroethane	0.000		0	N.D.	
71) Tetrachloroethene	0.000		0	N.D.	
72) 1,3-Dichloropropane	0.000		0	N.D.	
73) 2-Hexanone	0.000		0	N.D.	
74) Chlorodibromomethane	0.000		0	N.D.	
75) Butyl acetate	0.000		0	N.D.	
76) 1,2-Dibromoethane	0.000		0	N.D.	
77) Chlorobenzene	0.000		0	N.D.	
78) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
79) Ethylbenzene	0.000		0	N.D.	
80) m/p-Xylene	0.000		0	N.D.	
81) Styrene	0.000		0	N.D.	
82) o-Xylene	0.000		0	N.D.	
83) Bromoform	0.000		0	N.D.	
84) Isopropylbenzene	0.000		0	N.D.	
86) Bromobenzene	0.000		0	N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
88) 1,2,3-Trichloropropane	0.000		0	N.D.	
89) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
90) n-Propylbenzene	0.000		0	N.D.	
91) 2-Chlorotoluene	0.000		0	N.D.	
92) 4-Chlorotoluene	0.000		0	N.D.	
93) 1,3,5-Trimethylbenzene	0.000		0	N.D.	

Data Path : H:\VMS6\6V160920\
Data File : 20SEP07.D
Acq On : 20 Sep 2016 1:14 pm
Operator : BJG
Sample : VBLKW1-160920
Misc : IS\SS 200-19208
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 09:01:36 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

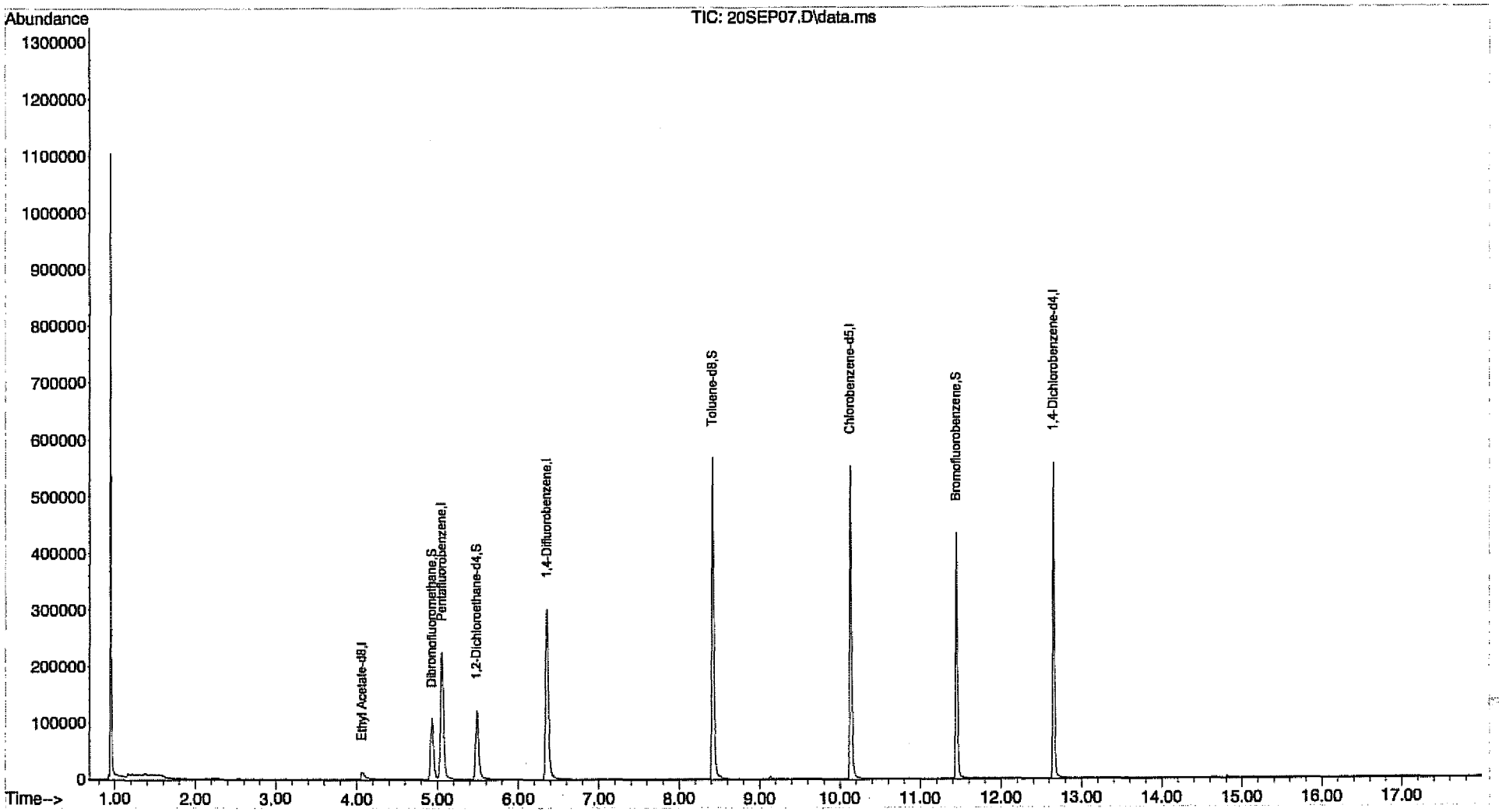
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	0.000		0	N.D.	
95)	tert-Butylbenzene	0.000		0	N.D.	
96)	Pentachloroethane	0.000		0	N.D.	
97)	1,2,4-Trimethylbenzene	0.000		0	N.D.	
98)	sec-Butylbenzene	0.000		0	N.D.	
100)	1,3-Dichlorobenzene	0.000		0	N.D.	
101)	p-Isopropyltoluene	0.000		0	N.D.	
102)	1,4-Dichlorobenzene	0.000		0	N.D.	
103)	1,2,3-Trimethylbenzene	0.000		0	N.D.	
104)	Benzyl chloride	0.000		0	N.D.	
105)	1,2-Dichlorobenzene	0.000		0	N.D.	
106)	n-Butylbenzene	0.000		0	N.D.	
107)	Hexachloroethane	0.000		0	N.D.	
108)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
109)	1,3,5-Trichlorobenzene	0.000		0	N.D.	
110)	1,2,4-Trichlorobenzene	0.000		0	N.D.	
111)	Hexachlorobutadiene	0.000		0	N.D.	
112)	Naphthalene	0.000		0	N.D.	
113)	1,2,3-Trichlorobenzene	0.000		0	N.D.	
114)	2-Methylnaphthalene	0.000		0	N.D.	
115)	1-Methylnaphthalene	0.000		0	N.D.	
117)	2-Propanone	0.000		0	N.D.	
118)	Acetic Ether	0.000		0	N.D.	
119)	Isopropyl Acetate	0.000		0	N.D.	
120)	Amyl Acetate	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP07.D
Acq On : 20 Sep 2016 1:14 pm
Operator : BJG
Sample : VBLKW1-160920
Misc : IS\SS 200-19208
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 09:01:36 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP04.D
Acq On : 20 Sep 2016 11:56 am
Operator : BJG
Sample : VLCSW1-160920
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:38:22 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.054	168	222995	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.354	114	334799	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.135	117	311081	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.656	152	145772	20.00 ug/L	0.00
116) Ethyl Acetate-d8	4.068	46	33090	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.934	111	96448	20.65 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.25%		
48) 1,2-Dichloroethane-d4	5.489	65	113683	19.94 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 99.70%		
65) Toluene-d8	8.420	98	412192	20.21 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 101.05%		
85) Bromofluorobenzene	11.451	95	145242	19.86 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 99.30%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.054	85	90152	11.78 ug/L	98
3) Chloromethane	1.164	50	103906	16.23 ug/L	98
4) Vinyl chloride	1.237	62	132912	16.85 ug/L	97
5) Bromomethane	1.447	94	49745	21.84 ug/L	97
6) Chloroethane	1.520	64	79160	15.83 ug/L	98
7) Trichlorofluoromethane	1.699	101	151300	17.21 ug/L	98
8) Ethyl ether	1.908	59	89315	18.77 ug/L	99
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.092	61	166350	20.90 ug/L	100
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	2.212	142	68820	12.76 ug/L	96
13) Acetone	2.139	43	21975	14.46 ug/L	98
14) Carbon disulfide	2.270	76	317646	21.59 ug/L	100
15) Allyl chloride	2.412	41	163172	19.82 ug/L	96
16) Methyl acetate	0.000		0	N.D.	
17) Acetonitrile	2.805	41	60709	17.00 ug/L	98
18) Methylene chloride	2.537	49	138154	18.01 ug/L	98
19) t-Butanol	2.653	59	24449	76.18 ug/L #	84
20) trans-1,2-Dichloroethene	2.810	61	159625	19.98 ug/L	100
21) Acrylonitrile	2.779	53	32269	17.25 ug/L	97
22) Methyl tert-butyl ether	2.805	73	283793	16.21 ug/L	99
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	3.313	63	200228	19.33 ug/L	99
25) Diisopropyl ether	3.376	45	336756	16.73 ug/L	97
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	3.874	56	18164	166.13 ug/L #	97
29) Ethyl tert butyl ether	3.880	59	308074	16.25 ug/L	99
30) 2,2-Dichloropropane	4.089	77	153553	19.65 ug/L	98
31) cis-1,2-Dichloroethene	4.100	61	178897	18.53 ug/L	99
32) 2-Butanone	4.126	43	31509	14.22 ug/L #	94
33) Ethyl Acetate	4.220	43	37391	8.71 ug/L #	95
34) Methyl acrylate	4.273	55	76473	15.98 ug/L	98
35) Propionitrile	4.970	54	28985	42.34 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP04.D
Acq On : 20 Sep 2016 11:56 am
Operator : BJG
Sample : VLCSW1-160920
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:38:22 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.467	49	87926	18.05 ug/L	100
37) Tetrahydrofuran	4.498	42	20127	11.85 ug/L	84
38) Methacrylonitrile	4.441	41	67702	15.96 ug/L	98
39) Chloroform	4.671	83	184944	18.33 ug/L	99
40) Cyclohexane	4.970	56	410669	41.05 ug/L	98
41) Isobutyl Alcohol	5.762	43	67897	5.10 ug/L #	39
43) 1,1,1-Trichloroethane	4.876	97	155314	20.19 ug/L	99
45) Carbon tetrachloride	5.122	117	122153	18.03 ug/L	99
46) 1,1-Dichloropropene	5.154	75	156000	18.96 ug/L	98
47) 2,2,4-Trimethylpentane	5.746	57	7858	0.68 ug/L #	1
49) 1,2-Dichloroethane	5.626	62	131465	17.45 ug/L	99
50) Benzene	5.474	78	479355	19.39 ug/L	100
51) Tertiaryamylmethylether	5.804	73	283245	16.40 ug/L #	95
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	7.005	83	336931	40.83 ug/L	99
54) Trichloroethene	6.685	130	120595	19.33 ug/L	99
55) 1,2-Dichloropropane	7.083	63	111134	18.13 ug/L	96
56) Dibromomethane	7.204	93	62505	18.00 ug/L	99
57) Methyl methacrylate	7.282	41	78677	15.07 ug/L	99
58) 1,4-Dioxane	7.230	88	46323	1299.93 ug/L #	82
59) Bromodichloromethane	7.508	83	119886	16.12 ug/L	99
60) 2-Nitropropane	7.822	43	17130	16.55 ug/L #	98
61) cis-1,3-Dichloropropene	8.111	75	153452	15.63 ug/L	99
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	99988	18.33 ug/L	91
66) Toluene	8.504	91	521379	19.18 ug/L	99
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.861	75	130339	14.85 ug/L	88
69) Ethyl methacrylate	8.976	69	130431	16.23 ug/L	99
70) 1,1,2-Trichloroethane	9.081	97	96041	18.57 ug/L	100
71) Tetrachloroethene	9.117	166	127221	19.01 ug/L	99
72) 1,3-Dichloropropane	9.259	76	167931	18.13 ug/L	99
73) 2-Hexanone	9.369	43	52619	14.66 ug/L	96
74) Chlorodibromomethane	9.495	129	79955	13.97 ug/L	99
75) Butyl acetate	9.553	43	64399	7.71 ug/L	99
76) 1,2-Dibromoethane	9.600	107	93190	17.10 ug/L #	100
77) Chlorobenzene	10.166	112	315381	18.36 ug/L	100
78) 1,1,1,2-Tetrachloroethane	10.292	131	88560	16.14 ug/L	98
79) Ethylbenzene	10.302	91	557196	17.54 ug/L	100
80) m/p-Xylene	10.454	91	842413	34.88 ug/L	100
81) Styrene	10.895	104	332298	17.14 ug/L	100
82) o-Xylene	10.863	91	412577	17.14 ug/L	100
83) Bromoform	11.073	173	46228	14.29 ug/L	99
84) Isopropylbenzene	11.272	105	496575	19.12 ug/L	100
86) Bromobenzene	11.571	77	195885	18.18 ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.629	83	128338	18.61 ug/L	99
88) 1,2,3-Trichloropropane	11.671	110	36886	17.62 ug/L	95
89) trans-1,4-Dichloro-2-b...	11.671	53	23806	12.46 ug/L #	78
90) n-Propylbenzene	11.713	91	544217	18.88 ug/L	99
91) 2-Chlorotoluene	11.786	91	330027	18.19 ug/L	100
92) 4-Chlorotoluene	11.917	91	374256	18.48 ug/L	100
93) 1,3,5-Trimethylbenzene	11.917	105	365428	17.39 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP04.D
Acq On : 20 Sep 2016 11:56 am
Operator : BJG
Sample : VLCSW1-160920
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:38:22 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

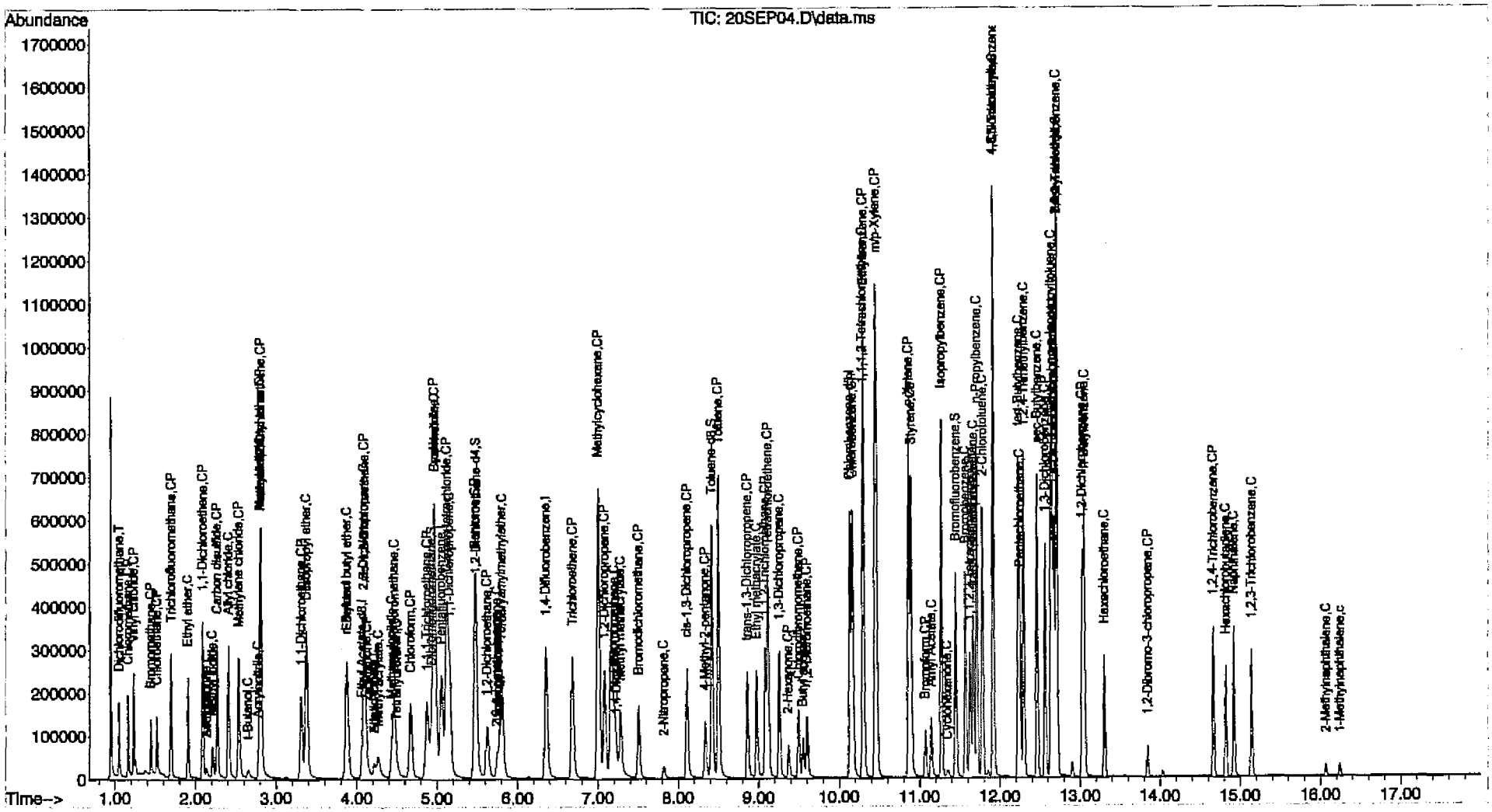
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	11.346	55	6265	41.10 ug/L #	28
95) tert-Butylbenzene	12.232	91	194469	19.41 ug/L	95
96) Pentachloroethane	12.253	117	60020	106.49 ug/L #	1
97) 1,2,4-Trimethylbenzene	12.300	105	363906	17.03 ug/L	99
98) sec-Butylbenzene	12.468	105	441111	20.65 ug/L	100
100) 1,3-Dichlorobenzene	12.567	146	202505	18.53 ug/L	99
101) p-Isopropyltoluene	12.641	119	364940	18.38 ug/L	99
102) 1,4-Dichlorobenzene	12.677	146	206812	17.83 ug/L	99
103) 1,2,3-Trimethylbenzene	12.709	105	736618	39.16 ug/L	100
104) Benzyl chloride	12.709	91	64530	7.40 ug/L #	37
105) 1,2-Dichlorobenzene	13.029	146	191488	18.40 ug/L	99
106) n-Butylbenzene	13.055	91	310705	18.84 ug/L	98
107) Hexachloroethane	13.307	117	36390	15.01 ug/L	95
108) 1,2-Dibromo-3-chloropr...	13.847	157	16818	13.06 ug/L	98
109) 1,3,5-Trichlorobenzene	0.000		0	N.D.	
110) 1,2,4-Trichlorobenzene	14.665	180	97942	18.80 ug/L	99
111) Hexachlorobutadiene	14.822	225	46067	21.16 ug/L	98
112) Naphthalene	14.921	128	256156	14.68 ug/L	100
113) 1,2,3-Trichlorobenzene	15.142	180	82654	18.01 ug/L	99
114) 2-Methylnaphthalene	16.070	142	12955	3.83 ug/L	98
115) 1-Methylnaphthalene	16.243	142	12477	4.46 ug/L	96
117) 2-Propanone	2.139	43	21975	18.97 ug/L	98
118) Acetic Ether	4.220	43	39774	10.70 ug/L #	90
119) Isopropyl Acetate	5.757	61	15876	10.02 ug/L #	21
120) Amyl Acetate	11.147	43	73147	9.84 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP04.D
Acq On : 20 Sep 2016 11:56 am
Operator : BJG
Sample : VLCSW1-160920
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:38:22 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP25.D
Acq On : 20 Sep 2016 9:02 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 21 08:39:07 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	212013	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	328374	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.135	117	305591	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.656	152	147357	20.00 ug/L	0.00
116) Ethyl Acetate-d8	4.068	46	32961	20.00 ug/L #	0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.928	111	92120	20.11 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 100.55%		
48) 1,2-Dichloroethane-d4	5.489	65	109704	19.62 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 98.10%		
65) Toluene-d8	8.420	98	396616	19.80 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 99.00%		
85) Bromofluorobenzene	11.451	95	143753	20.01 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 100.05%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.048	85	98807	13.58 ug/L	98
3) Chloromethane	1.164	50	86919	14.36 ug/L	99
4) Vinyl chloride	1.232	62	133469	17.80 ug/L	98
5) Bromomethane	1.447	94	41669	19.40 ug/L	100
6) Chloroethane	1.520	64	81239	17.20 ug/L	99
7) Trichlorofluoromethane	1.693	101	156849	18.77 ug/L	98
8) Ethyl ether	1.908	59	88678	19.61 ug/L	97
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.092	61	170967	22.59 ug/L	98
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	2.212	142	52367	10.27 ug/L	98
13) Acetone	2.139	43	23996	16.59 ug/L	99
14) Carbon disulfide	2.270	76	291656	20.85 ug/L	100
15) Allyl chloride	2.412	41	152220	19.45 ug/L	94
16) Methyl acetate	2.417	43	5228	2.47 ug/L #	1
17) Acetonitrile	2.805	41	64244	18.92 ug/L	95
18) Methylene chloride	2.537	49	148697	20.40 ug/L	98
19) t-Butanol	2.653	59	21955	72.21 ug/L #	79
20) trans-1,2-Dichloroethene	2.810	61	159484	20.99 ug/L	99
21) Acrylonitrile	2.784	53	33330	18.63 ug/L	96
22) Methyl tert-butyl ether	2.805	73	281437	16.90 ug/L	100
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	3.313	63	198180	20.13 ug/L	99
25) Diisopropyl ether	3.376	45	316661	16.55 ug/L	97
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	3.885	56	17103	164.47 ug/L #	91
29) Ethyl tert butyl ether	3.880	59	285967	15.86 ug/L	98
30) 2,2-Dichloropropane	4.089	77	134175	18.06 ug/L	97
31) cis-1,2-Dichloroethene	4.100	61	181374	19.76 ug/L	99
32) 2-Butanone	4.131	43	35224	16.41 ug/L #	94
33) Ethyl Acetate	4.220	43	78107	18.78 ug/L #	95
34) Methyl acrylate	4.273	55	77122	16.83 ug/L	98
35) Propionitrile	4.965	54	17163	25.98 ug/L #	82

Data Path : H:\VMS6\6V160920\
Data File : 20SEP25.D
Acq On : 20 Sep 2016 9:02 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 21 08:39:07 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.467	49	89630	19.35 ug/L	97
37) Tetrahydrofuran	4.493	42	21257	13.02 ug/L	83
38) Methacrylonitrile	4.441	41	66304	16.40 ug/L	93
39) Chloroform	4.671	83	184075	19.19 ug/L	99
40) Cyclohexane	4.970	56	225584	23.72 ug/L	99
41) Isobutyl Alcohol	5.757	43	232087	17.77 ug/L #	55
43) 1,1,1-Trichloroethane	4.876	97	154033	20.42 ug/L	99
45) Carbon tetrachloride	5.122	117	121939	18.35 ug/L	99
46) 1,1-Dichloropropene	5.159	75	159294	19.74 ug/L	99
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	5.631	62	132555	17.94 ug/L	99
50) Benzene	5.479	78	483452	19.94 ug/L	100
51) Tertiaryamylmethylether	5.809	73	265303	15.67 ug/L #	100
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	7.010	83	180840	22.35 ug/L	99
54) Trichloroethene	6.685	130	129953	21.23 ug/L	99
55) 1,2-Dichloropropane	7.088	63	111563	18.56 ug/L	95
56) Dibromomethane	7.209	93	61438	18.04 ug/L	100
57) Methyl methacrylate	7.282	41	76748	14.99 ug/L	99
58) 1,4-Dioxane	7.167	88	8555	230.72 ug/L #	21
59) Bromodichloromethane	7.508	83	114008	15.65 ug/L	99
60) 2-Nitropropane	7.817	43	14716	14.67 ug/L #	84
61) cis-1,3-Dichloropropene	8.111	75	143961	14.98 ug/L	99
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	105941	19.67 ug/L	90
66) Toluene	8.504	91	531682	19.91 ug/L	100
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.861	75	116516	13.60 ug/L	88
69) Ethyl methacrylate	8.976	69	129964	16.45 ug/L	100
70) 1,1,2-Trichloroethane	9.081	97	95389	18.78 ug/L	99
71) Tetrachloroethene	9.117	166	152768	23.24 ug/L	99
72) 1,3-Dichloropropane	9.259	76	170800	18.77 ug/L	98
73) 2-Hexanone	9.374	43	55789	15.70 ug/L	94
74) Chlorodibromomethane	9.500	129	73200	13.08 ug/L	98
75) Butyl acetate	9.547	43	135377	14.91 ug/L	99
76) 1,2-Dibromoethane	9.605	107	92672	17.31 ug/L #	98
77) Chlorobenzene	10.166	112	322197	19.10 ug/L	99
78) 1,1,1,2-Tetrachloroethane	10.292	131	85930	15.95 ug/L	97
79) Ethylbenzene	10.302	91	589765	18.90 ug/L	100
80) m/p-Xylene	10.454	91	891651	37.59 ug/L	100
81) Styrene	10.895	104	347912	18.25 ug/L	99
82) o-Xylene	10.863	91	431598	18.25 ug/L	100
83) Bromoform	11.073	173	41226	13.07 ug/L	99
84) Isopropylbenzene	11.272	105	535764	21.00 ug/L	99
86) Bromobenzene	11.571	77	201914	19.08 ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.629	83	127181	18.77 ug/L	99
88) 1,2,3-Trichloropropane	11.671	110	37993	18.48 ug/L	94
89) trans-1,4-Dichloro-2-b...	11.666	53	20194	10.86 ug/L #	73
90) n-Propylbenzene	11.713	91	594982	21.01 ug/L	100
91) 2-Chlorotoluene	11.786	91	355788	19.96 ug/L	99
92) 4-Chlorotoluene	11.917	91	397579	19.98 ug/L	99
93) 1,3,5-Trimethylbenzene	11.917	105	389023	18.83 ug/L	99

Data Path : H:\VMS6\6V160920\
Data File : 20SEP25.D
Acq On : 20 Sep 2016 9:02 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 21 08:39:07 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

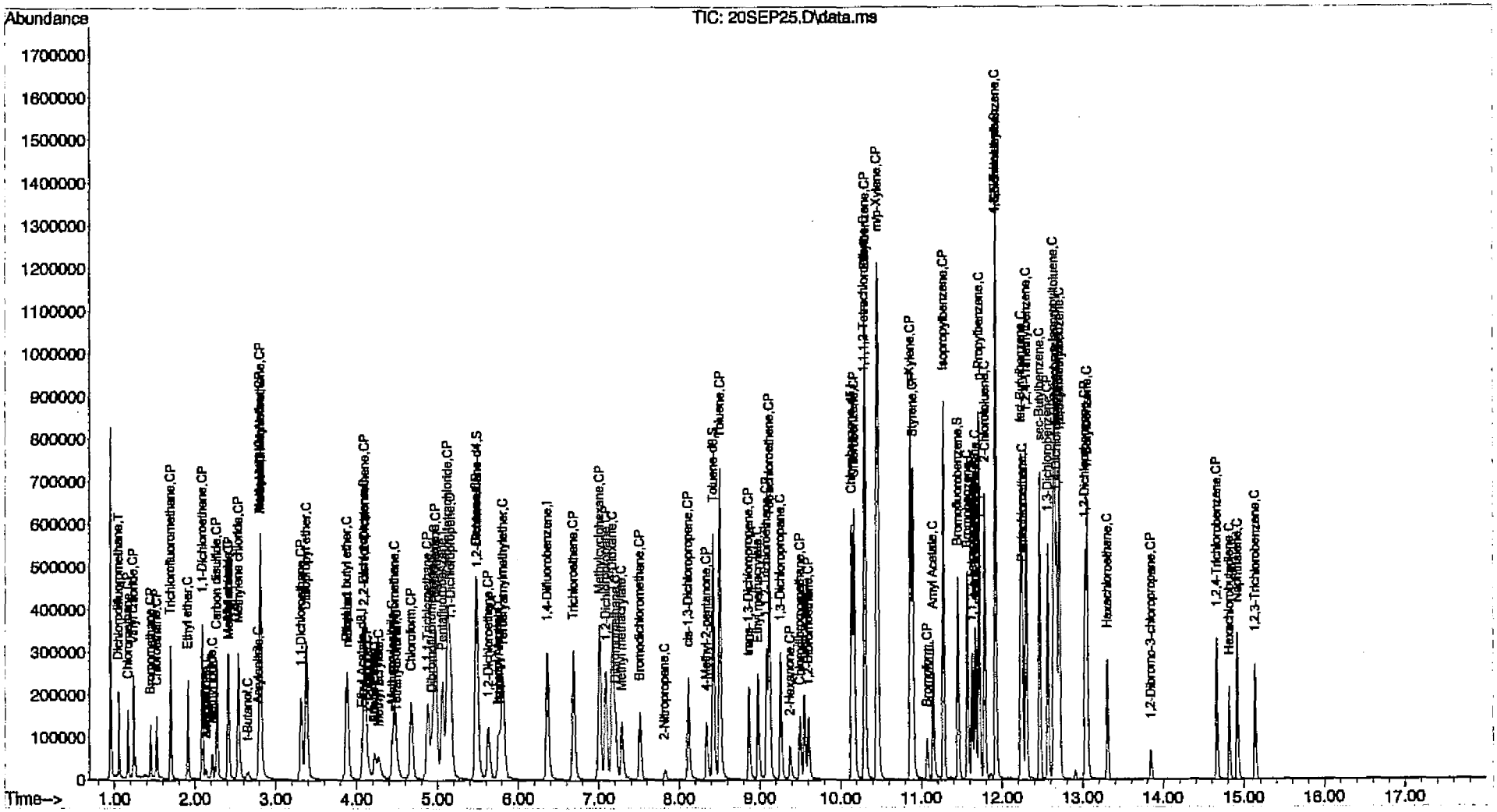
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	0.000		0	N.D.	
95)	tert-Butylbenzene	12.232	91	204652	20.79 ug/L	94
96)	Pentachloroethane	12.253	117	57469	103.79 ug/L #	1
97)	1,2,4-Trimethylbenzene	12.300	105	381957	18.19 ug/L	99
98)	sec-Butylbenzene	12.468	105	456813	21.77 ug/L	100
100)	1,3-Dichlorobenzene	12.567	146	211852	19.18 ug/L	100
101)	p-Isopropyltoluene	12.641	119	373003	18.58 ug/L	99
102)	1,4-Dichlorobenzene	12.677	146	213031	18.17 ug/L	99
103)	1,2,3-Trimethylbenzene	12.714	105	387332	20.37 ug/L	99
104)	Benzyl chloride	12.709	91	33911	4.80 ug/L #	38
105)	1,2-Dichlorobenzene	13.029	146	198064	18.83 ug/L	100
106)	n-Butylbenzene	13.055	91	308679	18.52 ug/L	99
107)	Hexachloroethane	13.307	117	32216	13.30 ug/L	96
108)	1,2-Dibromo-3-chloropr...	13.847	157	15556	12.08 ug/L	98
109)	1,3,5-Trichlorobenzene	0.000		0	N.D.	
110)	1,2,4-Trichlorobenzene	14.665	180	90940	17.27 ug/L	100
111)	Hexachlorobutadiene	14.822	225	37998	17.26 ug/L	97
112)	Naphthalene	14.921	128	250374	14.23 ug/L	99
113)	1,2,3-Trichlorobenzene	15.142	180	75245	16.22 ug/L	99
114)	2-Methylnaphthalene	0.000		0	N.D.	
115)	1-Methylnaphthalene	0.000		0	N.D.	
117)	2-Propanone	2.139	43	23996	21.16 ug/L	99
118)	Acetic Ether	4.220	43	78107	22.61 ug/L	99
119)	Isopropyl Acetate	5.751	61	31878	22.52 ug/L #	48
120)	Amyl Acetate	11.141	43	155166	22.98 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP25.D
Acq On : 20 Sep 2016 9:02 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 21 08:39:07 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160920\
Data File : 20SEP26.D
Acq On : 20 Sep 2016 9:28 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 21 08:39:09 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	216824	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	328568	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.140	117	308206	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	148027	20.00 ug/L	0.00
116) Ethyl Acetate-d8	4.068	46	32609	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.934	111	92546	20.19 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 100.95%		
48) 1,2-Dichloroethane-d4	5.489	65	111137	19.86 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 99.30%		
65) Toluene-d8	8.420	98	400293	19.81 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 99.05%		
85) Bromofluorobenzene	11.451	95	146715	20.25 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 101.25%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.049	85	103183	13.87 ug/L	99
3) Chloromethane	1.164	50	104547	16.77 ug/L	99
4) Vinyl chloride	1.232	62	142713	18.61 ug/L	98
5) Bromomethane	1.447	94	47322	21.40 ug/L	99
6) Chloroethane	1.520	64	84211	17.45 ug/L	99
7) Trichlorofluoromethane	1.693	101	166885	19.53 ug/L	99
8) Ethyl ether	1.908	59	93479	20.21 ug/L	100
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.092	61	177948	22.99 ug/L	99
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	2.212	142	70058	13.34 ug/L	97
13) Acetone	2.134	43	26980	18.23 ug/L	99
14) Carbon disulfide	2.270	76	312375	21.83 ug/L	99
15) Allyl chloride	2.412	41	162879	20.35 ug/L	96
16) Methyl acetate	2.422	43	6016	2.61 ug/L #	1
17) Acetonitrile	2.805	41	66544	19.16 ug/L	97
18) Methylene chloride	2.538	49	153342	20.57 ug/L	99
19) t-Butanol	2.653	59	23250	74.62 ug/L #	82
20) trans-1,2-Dichloroethene	2.810	61	165166	21.26 ug/L	99
21) Acrylonitrile	2.779	53	34873	19.02 ug/L	99
22) Methyl tert-butyl ether	2.805	73	298810	17.55 ug/L	99
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	3.313	63	213073	21.16 ug/L	99
25) Diisopropyl ether	3.376	45	334313	17.08 ug/L	97
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	3.880	56	18613	175.36 ug/L #	99
29) Ethyl tert butyl ether	3.880	59	305168	16.55 ug/L	99
30) 2,2-Dichloropropane	4.095	77	141778	18.66 ug/L	99
31) cis-1,2-Dichloroethene	4.100	61	193593	20.62 ug/L	99
32) 2-Butanone	4.126	43	39024	17.63 ug/L #	87
33) Ethyl Acetate	4.221	43	80319	18.87 ug/L #	95
34) Methyl acrylate	4.273	55	82345	17.48 ug/L	98
35) Propionitrile	4.970	54	17010	25.15 ug/L #	93

Data Path : H:\VMS6\6V160920\
Data File : 20SEP26.D
Acq On : 20 Sep 2016 9:28 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 21 08:39:09 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.467	49	93235	19.68 ug/L	99
37) Tetrahydrofuran	4.493	42	22486	13.43 ug/L	82
38) Methacrylonitrile	4.446	41	73187	17.57 ug/L	97
39) Chloroform	4.671	83	196279	20.01 ug/L	99
40) Cyclohexane	4.976	56	239579	24.63 ug/L	100
41) Isobutyl Alcohol	5.757	43	159608	12.02 ug/L #	60
43) 1,1,1-Trichloroethane	4.881	97	162080	21.47 ug/L	99
45) Carbon tetrachloride	5.122	117	128035	19.26 ug/L	98
46) 1,1-Dichloropropene	5.159	75	169847	21.03 ug/L	100
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	5.631	62	142675	19.30 ug/L	99
50) Benzene	5.479	78	512483	21.12 ug/L	100
51) Tertiaryamylmethylether	5.809	73	283051	16.70 ug/L #	99
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	7.010	83	186751	23.06 ug/L	97
54) Trichloroethene	6.690	130	135263	22.09 ug/L	100
55) 1,2-Dichloropropane	7.088	63	117833	19.59 ug/L	95
56) Dibromomethane	7.209	93	63966	18.77 ug/L	99
57) Methyl methacrylate	7.282	41	82123	15.95 ug/L	99
58) 1,4-Dioxane	7.172	88	8988	244.08 ug/L #	21
59) Bromodichloromethane	7.508	83	121440	16.61 ug/L	99
60) 2-Nitropropane	7.828	43	16249	16.04 ug/L #	98
61) cis-1,3-Dichloropropene	8.111	75	156102	16.17 ug/L	100
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	105781	19.48 ug/L	92
66) Toluene	8.504	91	565770	21.01 ug/L	99
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.861	75	125700	14.48 ug/L	87
69) Ethyl methacrylate	8.976	69	137465	17.21 ug/L	99
70) 1,1,2-Trichloroethane	9.086	97	100079	19.54 ug/L	100
71) Tetrachloroethene	9.118	166	162483	24.50 ug/L	98
72) 1,3-Dichloropropane	9.259	76	179249	19.53 ug/L	98
73) 2-Hexanone	9.374	43	56733	15.81 ug/L	99
74) Chlorodibromomethane	9.500	129	79889	14.08 ug/L	96
75) Butyl acetate	9.553	43	141315	15.38 ug/L	99
76) 1,2-Dibromoethane	9.605	107	98164	18.16 ug/L #	98
77) Chlorobenzene	10.166	112	343498	20.19 ug/L	100
78) 1,1,1,2-Tetrachloroethane	10.292	131	93596	17.19 ug/L	99
79) Ethylbenzene	10.302	91	627488	19.94 ug/L	99
80) m/p-Xylene	10.455	91	942244	39.39 ug/L	100
81) Styrene	10.895	104	366968	19.07 ug/L	100
82) o-Xylene	10.863	91	455676	19.10 ug/L	100
83) Bromoform	11.073	173	44725	13.98 ug/L	97
84) Isopropylbenzene	11.272	105	565094	21.96 ug/L	98
86) Bromobenzene	11.571	77	214185	20.07 ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.629	83	135224	19.79 ug/L	99
88) 1,2,3-Trichloropropane	11.671	110	39312	18.96 ug/L	97
89) trans-1,4-Dichloro-2-b...	11.666	53	21644	11.50 ug/L #	74
90) n-Propylbenzene	11.713	91	625982	21.91 ug/L	100
91) 2-Chlorotoluene	11.781	91	377586	21.00 ug/L	100
92) 4-Chlorotoluene	11.917	91	414747	20.67 ug/L	99
93) 1,3,5-Trimethylbenzene	11.917	105	407779	19.57 ug/L	99

Data Path : H:\VMS6\6V160920\
Data File : 20SEP26.D
Acq On : 20 Sep 2016 9:28 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 21 08:39:09 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

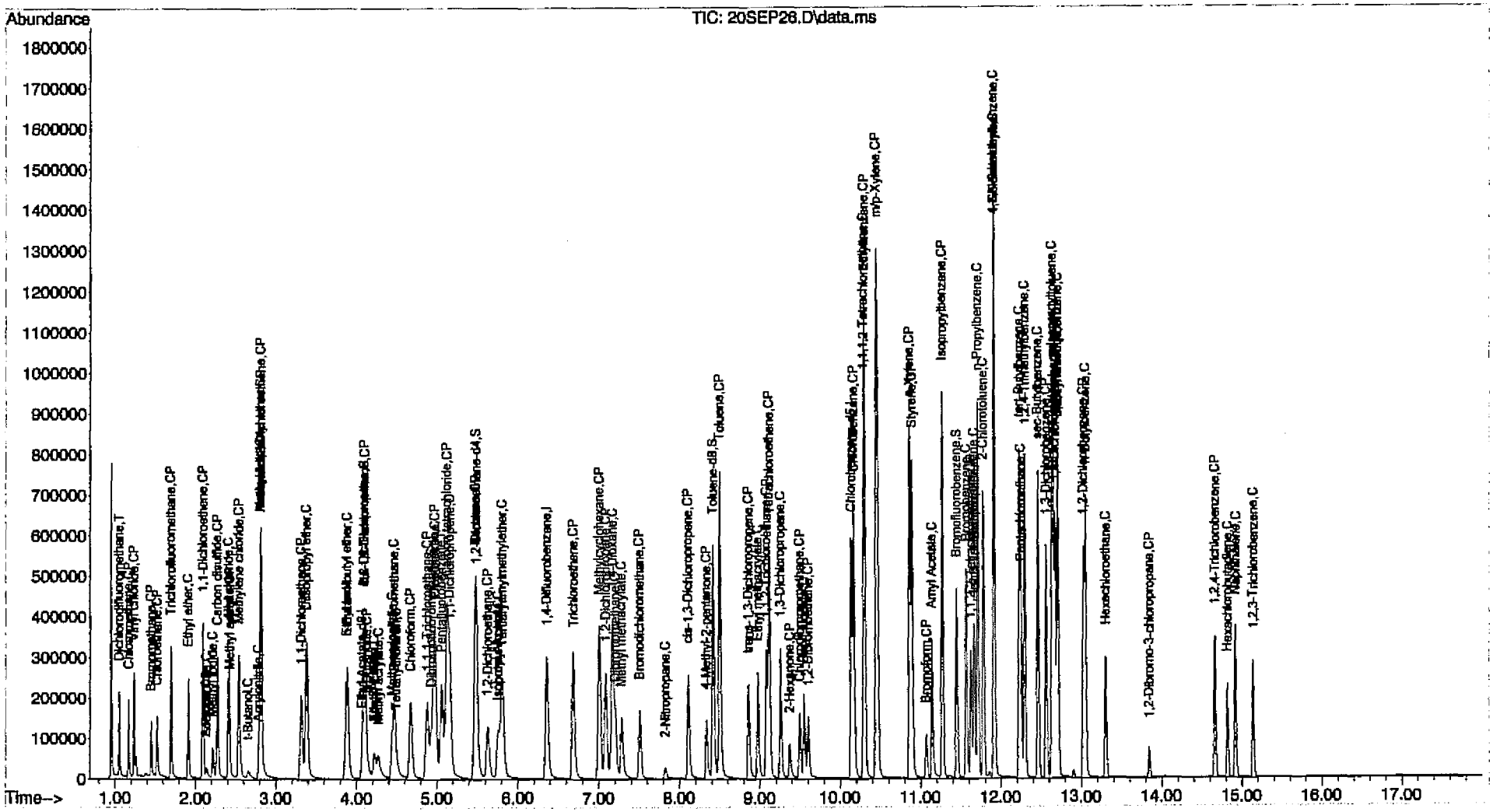
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Cyclohexanone	0.000		0	N.D.	
95)	tert-Butylbenzene	12.232	91	215009	21.66 ug/L	95
96)	Pentachloroethane	12.253	117	60662	108.63 ug/L #	1
97)	1,2,4-Trimethylbenzene	12.300	105	403735	19.05 ug/L	99
98)	sec-Butylbenzene	12.463	105	476474	22.51 ug/L	99
100)	1,3-Dichlorobenzene	12.567	146	223974	20.18 ug/L	100
101)	p-Isopropyltoluene	12.641	119	390056	19.34 ug/L	99
102)	1,4-Dichlorobenzene	12.678	146	227168	19.29 ug/L	99
103)	1,2,3-Trimethylbenzene	12.709	105	409589	21.44 ug/L	100
104)	Benzyl chloride	12.709	91	35777	4.94 ug/L #	38
105)	1,2-Dichlorobenzene	13.029	146	208590	19.74 ug/L	99
106)	n-Butylbenzene	13.055	91	323103	19.29 ug/L	99
107)	Hexachloroethane	13.307	117	35016	14.29 ug/L	96
108)	1,2-Dibromo-3-chloropr...	13.847	157	16921	12.95 ug/L	99
109)	1,3,5-Trichlorobenzene	0.000		0	N.D.	
110)	1,2,4-Trichlorobenzene	14.665	180	98208	18.56 ug/L	99
111)	Hexachlorobutadiene	14.822	225	41922	18.96 ug/L	98
112)	Naphthalene	14.922	128	275422	15.49 ug/L	99
113)	1,2,3-Trichlorobenzene	15.142	180	83246	17.86 ug/L	97
114)	2-Methylnaphthalene	0.000		0	N.D.	
115)	1-Methylnaphthalene	0.000		0	N.D.	
117)	2-Propanone	2.134	43	26980	24.63 ug/L	99
118)	Acetic Ether	4.221	43	80319	23.56 ug/L	98
119)	Isopropyl Acetate	5.757	61	34256	24.65 ug/L #	39
120)	Amyl Acetate	11.141	43	163945	24.67 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160920\
Data File : 20SEP26.D
Acq On : 20 Sep 2016 9:28 pm
Operator : BJG
Sample : 1609923-01A MS DF10
Misc : 200-19381 20PPB
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 21 08:39:09 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160921\
Data File : 21SEP08.D
Acq On : 21 Sep 2016 2:24 pm
Operator : BJG
Sample : VBLKW1-160921
Misc : IS\SS 200-19208
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 14:48:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.059	168	201567	20.00	ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	309406	20.00	ug/L	0.00
63) Chlorobenzene-d5	10.135	117	284142	20.00	ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	128361	20.00	ug/L	# 0.00
116) Ethyl Acetate-d8	4.074	46	26592	20.00	ug/L	# 0.00
System Monitoring Compounds						
44) Dibromofluoromethane	4.934	111	81988	19.00	ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 95.00%			
48) 1,2-Dichloroethane-d4	5.489	65	101739	19.31	ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 96.55%			
65) Toluene-d8	8.420	98	364907	19.59	ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 97.95%			
85) Bromofluorobenzene	11.451	95	126708	18.97	ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 94.85%			

Target Compounds			Qvalue
2) Dichlorodifluoromethane	0.000	0	N.D.
3) Chloromethane	0.000	0	N.D.
4) Vinyl chloride	0.000	0	N.D.
5) Bromomethane	0.000	0	N.D.
6) Chloroethane	0.000	0	N.D.
7) Trichlorofluoromethane	0.000	0	N.D.
8) Ethyl ether	0.000	0	N.D.
9) Acrolein	0.000	0	N.D.
10) 1,1-Dichloroethene	0.000	0	N.D.
11) 1,1,2-Trichlorotrifluo...	0.000	0	N.D.
12) Methyl iodide	0.000	0	N.D.
13) Acetone	0.000	0	N.D.
14) Carbon disulfide	0.000	0	N.D.
15) Allyl chloride	0.000	0	N.D.
16) Methyl acetate	0.000	0	N.D.
17) Acetonitrile	0.000	0	N.D.
18) Methylene chloride	0.000	0	N.D.
19) t-Butanol	0.000	0	N.D.
20) trans-1,2-Dichloroethene	0.000	0	N.D.
21) Acrylonitrile	0.000	0	N.D.
22) Methyl tert-butyl ether	0.000	0	N.D.
23) Hexane	0.000	0	N.D.
24) 1,1-Dichloroethane	0.000	0	N.D.
25) Diisopropyl ether	0.000	0	N.D.
26) Vinyl acetate	0.000	0	N.D.
27) Chloroprene	0.000	0	N.D.
28) n-Butanol	0.000	0	N.D.
29) Ethyl tert butyl ether	0.000	0	N.D.
30) 2,2-Dichloropropane	0.000	0	N.D.
31) cis-1,2-Dichloroethene	0.000	0	N.D.
32) 2-Butanone	0.000	0	N.D.
33) Ethyl Acetate	0.000	0	N.D.
34) Methyl acrylate	0.000	0	N.D.
35) Propionitrile	0.000	0	N.D.

Data Path : H:\VMS6\6V160921\
Data File : 21SEP08.D
Acq On : 21 Sep 2016 2:24 pm
Operator : BJG
Sample : VBLKW1-160921
Misc : IS\SS 200-19208
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 14:48:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	0.000		0	N.D.	
37) Tetrahydrofuran	0.000		0	N.D.	
38) Methacrylonitrile	0.000		0	N.D.	
39) Chloroform	0.000		0	N.D.	
40) Cyclohexane	0.000		0	N.D.	
41) Isobutyl Alcohol	0.000		0	N.D.	
43) 1,1,1-Trichloroethane	0.000		0	N.D.	
45) Carbon tetrachloride	0.000		0	N.D.	d
46) 1,1-Dichloropropene	0.000		0	N.D.	
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	0.000		0	N.D.	
50) Benzene	0.000		0	N.D.	
51) Tertiaryamylmethylether	0.000		0	N.D.	
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	0.000		0	N.D.	
54) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
56) Dibromomethane	0.000		0	N.D.	
57) Methyl methacrylate	0.000		0	N.D.	
58) 1,4-Dioxane	0.000		0	N.D.	
59) Bromodichloromethane	0.000		0	N.D.	
60) 2-Nitropropane	0.000		0	N.D.	
61) cis-1,3-Dichloropropene	0.000		0	N.D.	
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	0.000		0	N.D.	
66) Toluene	0.000		0	N.D.	
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	0.000		0	N.D.	
69) Ethyl methacrylate	0.000		0	N.D.	
70) 1,1,2-Trichloroethane	0.000		0	N.D.	
71) Tetrachloroethene	0.000		0	N.D.	
72) 1,3-Dichloropropane	0.000		0	N.D.	
73) 2-Hexanone	0.000		0	N.D.	
74) Chlorodibromomethane	0.000		0	N.D.	
75) Butyl acetate	0.000		0	N.D.	
76) 1,2-Dibromoethane	0.000		0	N.D.	
77) Chlorobenzene	0.000		0	N.D.	
78) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
79) Ethylbenzene	0.000		0	N.D.	
80) m/p-Xylene	0.000		0	N.D.	
81) Styrene	0.000		0	N.D.	
82) o-Xylene	0.000		0	N.D.	
83) Bromoform	0.000		0	N.D.	
84) Isopropylbenzene	0.000		0	N.D.	
86) Bromobenzene	0.000		0	N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
88) 1,2,3-Trichloropropane	0.000		0	N.D.	
89) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
90) n-Propylbenzene	0.000		0	N.D.	
91) 2-Chlorotoluene	0.000		0	N.D.	
92) 4-Chlorotoluene	0.000		0	N.D.	
93) 1,3,5-Trimethylbenzene	0.000		0	N.D.	

Data Path : H:\VMS6\6V160921\
Data File : 21SEP08.D
Acq On : 21 Sep 2016 2:24 pm
Operator : BJG
Sample : VBLKW1-160921
Misc : IS\SS 200-19208
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 14:48:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

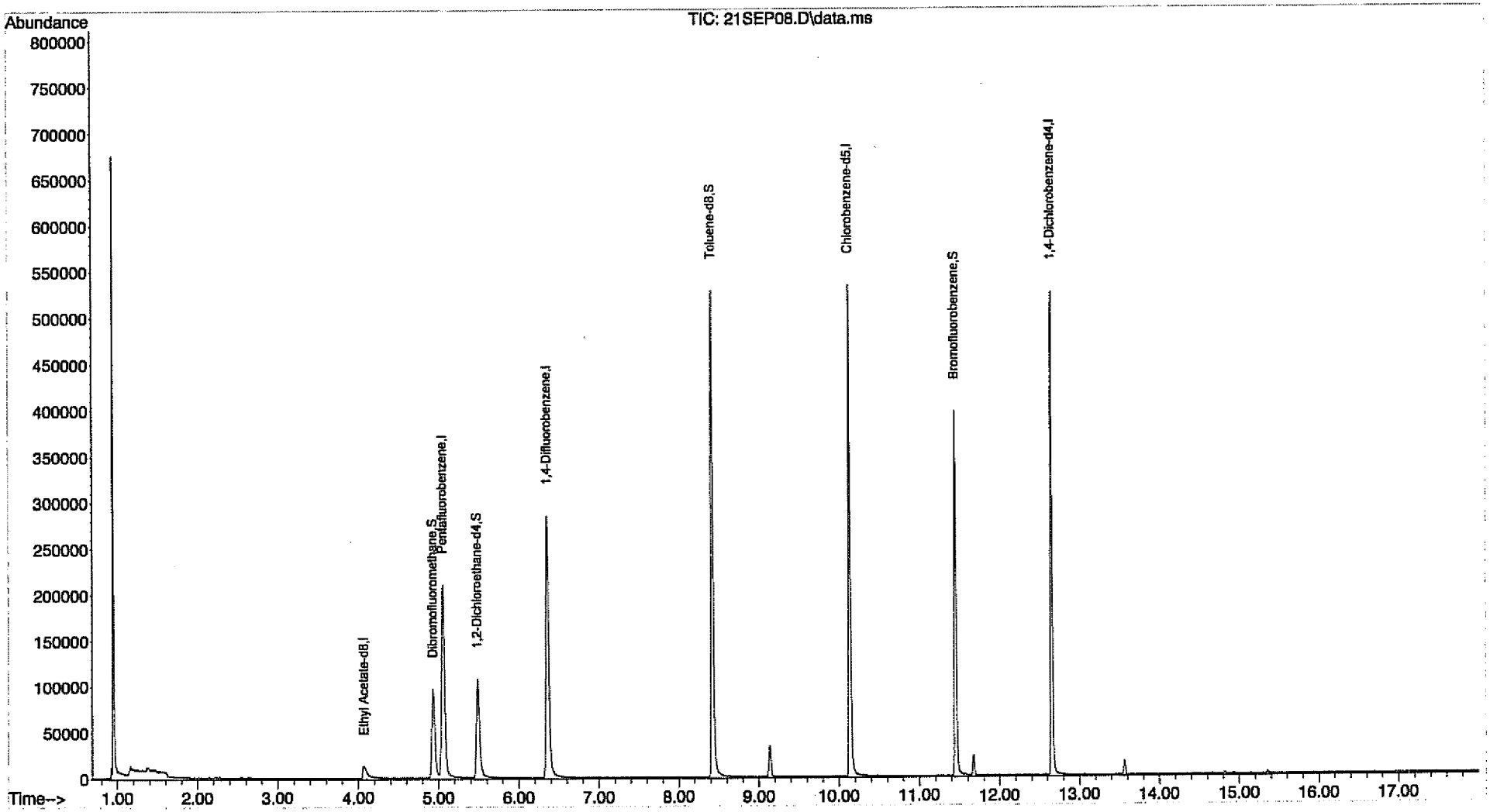
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	0.000		0	N.D.	
95) tert-Butylbenzene	0.000		0	N.D.	
96) Pentachloroethane	0.000		0	N.D.	
97) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
98) sec-Butylbenzene	0.000		0	N.D.	
100) 1,3-Dichlorobenzene	0.000		0	N.D.	
101) p-Isopropyltoluene	0.000		0	N.D.	
102) 1,4-Dichlorobenzene	0.000		0	N.D.	
103) 1,2,3-Trimethylbenzene	0.000		0	N.D.	
104) Benzyl chloride	0.000		0	N.D.	
105) 1,2-Dichlorobenzene	0.000		0	N.D.	
106) n-Butylbenzene	0.000		0	N.D.	
107) Hexachloroethane	0.000		0	N.D.	
108) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
109) 1,3,5-Trichlorobenzene	0.000		0	N.D.	
110) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
111) Hexachlorobutadiene	0.000		0	N.D.	
112) Naphthalene	0.000		0	N.D.	
113) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
114) 2-Methylnaphthalene	0.000		0	N.D.	
115) 1-Methylnaphthalene	0.000		0	N.D.	
117) 2-Propanone	0.000		0	N.D.	
118) Acetic Ether	0.000		0	N.D.	
119) Isopropyl Acetate	0.000		0	N.D.	
120) Amyl Acetate	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP08.D
Acq On : 21 Sep 2016 2:24 pm
Operator : BJG
Sample : VBLKW1-160921
Misc : IS\SS 200-19208
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 14:48:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP06.D
Acq On : 21 Sep 2016 1:31 pm
Operator : BJG
Sample : VLCSW1-160921
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 13:53:00 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.060	168	204763	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	314569	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.135	117	292891	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	136792	20.00 ug/L	0.00
116) Ethyl Acetate-d8	4.069	46	32435	20.00 ug/L	# 0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.934	111	87896	20.03 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 100.15%		
48) 1,2-Dichloroethane-d4	5.489	65	103962	19.40 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 97.00%		
65) Toluene-d8	8.420	98	383062	19.95 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 99.75%		
85) Bromofluorobenzene	11.451	95	136159	19.78 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 98.90%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.049	85	88081	12.53 ug/L	99
3) Chloromethane	1.164	50	90899	15.50 ug/L	98
4) Vinyl chloride	1.232	62	120095	16.59 ug/L	95
5) Bromomethane	1.447	94	39778	19.19 ug/L #	96
6) Chloroethane	1.521	64	72429	15.77 ug/L	99
7) Trichlorofluoromethane	1.694	101	142173	17.61 ug/L	100
8) Ethyl ether	1.908	59	88434	20.24 ug/L	96
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.087	61	153295	20.97 ug/L	99
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	2.213	142	69194	13.94 ug/L	97
13) Acetone	2.134	43	26962	19.29 ug/L	97
14) Carbon disulfide	2.270	76	266222	19.70 ug/L	100
15) Allyl chloride	2.412	41	152337	20.15 ug/L	97
16) Methyl acetate	0.000		0	N.D.	
17) Acetonitrile	2.805	41	61671	18.80 ug/L	98
18) Methylene chloride	2.538	49	131810	18.72 ug/L	99
19) t-Butanol	2.658	59	39997	127.65 ug/L #	91
20) trans-1,2-Dichloroethene	2.810	61	148869	20.29 ug/L	99
21) Acrylonitrile	2.784	53	34835	20.03 ug/L	99
22) Methyl tert-butyl ether	2.805	73	278329	17.31 ug/L	99
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	3.314	63	192653	20.26 ug/L	100
25) Diisopropyl ether	3.377	45	313788	16.98 ug/L	95
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	3.875	56	16728	166.63 ug/L #	94
29) Ethyl tert butyl ether	3.880	59	282904	16.25 ug/L	99
30) 2,2-Dichloropropane	4.090	77	138850	19.35 ug/L	99
31) cis-1,2-Dichloroethene	4.100	61	171527	19.35 ug/L	99
32) 2-Butanone	4.132	43	37830	18.05 ug/L #	95
33) Ethyl Acetate	4.221	43	78788	19.55 ug/L #	94
34) Methyl acrylate	4.273	55	82050	18.33 ug/L	99
35) Propionitrile	4.970	54	15176	23.70 ug/L #	85

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP06.D
Acq On : 21 Sep 2016 1:31 pm
Operator : BJG
Sample : VLCSW1-160921
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 13:53:00 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.467	49	88148	19.71 ug/L	99
37) Tetrahydrofuran	4.493	42	23251	14.58 ug/L	82
38) Methacrylonitrile	4.441	41	71597	18.15 ug/L	98
39) Chloroform	4.672	83	180115	19.44 ug/L	99
40) Cyclohexane	4.976	56	206703	22.50 ug/L	98
41) Isobutyl Alcohol	5.757	43	165862	13.21 ug/L #	39
43) 1,1,1-Trichloroethane	4.881	97	143735	19.89 ug/L	99
45) Carbon tetrachloride	5.122	117	109144	17.15 ug/L	98
46) 1,1-Dichloropropene	5.159	75	146865	19.00 ug/L	99
47) 2,2,4-Trimethylpentane	5.809	57	5224	0.48 ug/L #	1
49) 1,2-Dichloroethane	5.626	62	129754	18.33 ug/L	99
50) Benzene	5.479	78	467964	20.15 ug/L	99
51) Tertiaryamylmethylether	5.804	73	262617	16.19 ug/L #	99
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	7.010	83	165770	21.38 ug/L	99
54) Trichloroethene	6.685	130	115815	19.75 ug/L	99
55) 1,2-Dichloropropane	7.083	63	111733	19.41 ug/L	95
56) Dibromomethane	7.209	93	60376	18.50 ug/L	98
57) Methyl methacrylate	7.288	41	79874	16.18 ug/L	98
58) 1,4-Dioxane	7.173	88	8347	235.66 ug/L #	21
59) Bromodichloromethane	7.508	83	111116	15.91 ug/L	99
60) 2-Nitropropane	7.823	43	15903	16.37 ug/L #	94
61) cis-1,3-Dichloropropene	8.111	75	145000	15.71 ug/L	97
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	111693	21.50 ug/L	90
66) Toluene	8.504	91	508807	19.88 ug/L	100
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.866	75	121533	14.72 ug/L	87
69) Ethyl methacrylate	8.976	69	130344	17.17 ug/L	100
70) 1,1,2-Trichloroethane	9.081	97	94731	19.46 ug/L	99
71) Tetrachloroethene	9.118	166	126244	20.03 ug/L	100
72) 1,3-Dichloropropane	9.259	76	167428	19.20 ug/L	99
73) 2-Hexanone	9.375	43	58054	16.90 ug/L	99
74) Chlorodibromomethane	9.500	129	72687	13.52 ug/L	99
75) Butyl acetate	9.548	43	134634	15.42 ug/L	99
76) 1,2-Dibromoethane	9.605	107	91721	17.86 ug/L #	99
77) Chlorobenzene	10.166	112	309353	19.13 ug/L	100
78) 1,1,1,2-Tetrachloroethane	10.292	131	84063	16.27 ug/L	99
79) Ethylbenzene	10.303	91	555215	18.56 ug/L	100
80) m/p-Xylene	10.455	91	835327	36.74 ug/L	99
81) Styrene	10.895	104	329859	18.05 ug/L	99
82) o-Xylene	10.864	91	412519	18.20 ug/L	100
83) Bromoform	11.073	173	40421	13.35 ug/L	99
84) Isopropylbenzene	11.273	105	500264	20.46 ug/L	100
86) Bromobenzene	11.566	77	196561	19.38 ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.629	83	130503	20.10 ug/L	99
88) 1,2,3-Trichloropropane	11.671	110	38151	19.36 ug/L	96
89) trans-1,4-Dichloro-2-b...	11.666	53	25176	13.89 ug/L	86
90) n-Propylbenzene	11.713	91	552670	20.36 ug/L	100
91) 2-Chlorotoluene	11.781	91	335561	19.64 ug/L	99
92) 4-Chlorotoluene	11.917	91	376254	19.73 ug/L	99
93) 1,3,5-Trimethylbenzene	11.917	105	359569	18.17 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP06.D
Acq On : 21 Sep 2016 1:31 pm
Operator : BJG
Sample : VLCSW1-160921
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 13:53:00 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

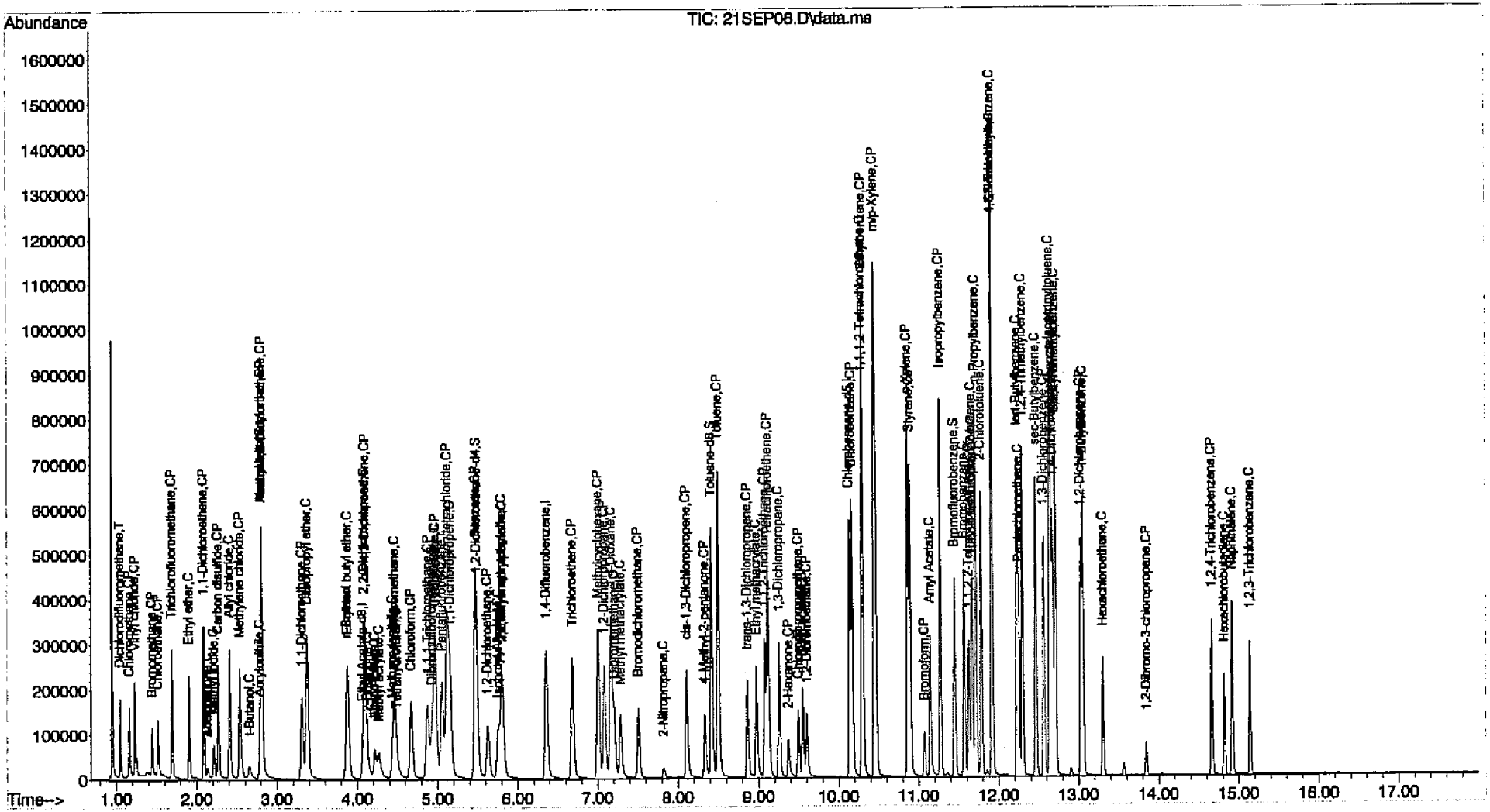
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	0.000		0	N.D.	
95) tert-Butylbenzene	12.232	91	190682	20.21 ug/L	95
96) Pentachloroethane	12.253	117	56288	106.07 ug/L #	1
97) 1,2,4-Trimethylbenzene	12.300	105	357429	17.76 ug/L	100
98) sec-Butylbenzene	12.468	105	425292	21.14 ug/L	99
100) 1,3-Dichlorobenzene	12.568	146	202968	19.79 ug/L	99
101) p-Isopropyltoluene	12.641	119	347473	18.65 ug/L	100
102) 1,4-Dichlorobenzene	12.678	146	206429	18.97 ug/L	97
103) 1,2,3-Trimethylbenzene	12.709	105	376499	21.33 ug/L	98
104) Benzyl chloride	12.709	91	34180	5.04 ug/L #	40
105) 1,2-Dichlorobenzene	13.029	146	190963	19.55 ug/L	100
106) n-Butylbenzene	13.055	91	290408	18.77 ug/L	99
107) Hexachloroethane	13.307	117	30852	13.68 ug/L	96
108) 1,2-Dibromo-3-chloropr...	13.847	157	17345	14.19 ug/L	98
109) 1,3,5-Trichlorobenzene	0.000		0	N.D.	
110) 1,2,4-Trichlorobenzene	14.665	180	94487	19.33 ug/L	100
111) Hexachlorobutadiene	14.822	225	39556	19.36 ug/L	96
112) Naphthalene	14.922	128	279321	16.91 ug/L	100
113) 1,2,3-Trichlorobenzene	15.142	180	84395	19.60 ug/L	97
114) 2-Methylnaphthalene	0.000		0	N.D.	
115) 1-Methylnaphthalene	0.000		0	N.D.	
117) 2-Propanone	2.134	43	26962	24.77 ug/L	97
118) Acetic Ether	4.221	43	78788	23.21 ug/L	98
119) Isopropyl Acetate	5.757	61	31192	22.38 ug/L #	45
120) Amyl Acetate	11.141	43	152207	22.91 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP06.D
Acq On : 21 Sep 2016 1:31 pm
Operator : BJG
Sample : VLCSW1-160921
Misc : 200-19381 20PPB
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 13:53:00 2016
Quant Method : C:\msdchem\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Data Path : H:\VMS6\6V160921\
Data File : 21SEP28.D
Acq On : 21 Sep 2016 11:05 pm
Operator : BJG
Sample : 16091057-01A MS DF200
Misc : IS\SS 200-19373
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:39:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.065	168	204711	20.00	ug/L		0.00
42) 1,4-Difluorobenzene	6.360	114	313118	20.00	ug/L		0.00
63) Chlorobenzene-d5	10.135	117	291494	20.00	ug/L		0.00
99) 1,4-Dichlorobenzene-d4	12.656	152	140320	20.00	ug/L		0.00
116) Ethyl Acetate-d8	4.063	46	34874	20.00	ug/L	#	0.00
System Monitoring Compounds							
44) Dibromofluoromethane	4.934	111	86473	19.80	ug/L		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 99.00%				
48) 1,2-Dichloroethane-d4	5.489	65	104395	19.58	ug/L		0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 97.90%				
65) Toluene-d8	8.420	98	381042	19.94	ug/L		0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 99.70%				
85) Bromofluorobenzene	11.451	95	138034	20.15	ug/L		0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 100.75%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.054	85	98337	14.00	ug/L		100
3) Chloromethane	1.164	50	112045	18.90	ug/L		98
4) Vinyl chloride	1.237	62	131406	18.15	ug/L		99
5) Bromomethane	1.447	94	40385	19.47	ug/L	#	94
6) Chloroethane	1.526	64	87011	19.22	ug/L		97
7) Trichlorofluoromethane	1.699	101	149079	18.47	ug/L		99
8) Ethyl ether	1.908	59	86881	19.89	ug/L		98
9) Acrolein	0.000		0	N.D.			
10) 1,1-Dichloroethene	2.092	61	162552	22.25	ug/L		99
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.			
12) Methyl iodide	2.212	142	75038	15.10	ug/L		99
13) Acetone	2.134	43	109986	78.42	ug/L		98
14) Carbon disulfide	2.270	76	262853	19.46	ug/L		100
15) Allyl chloride	2.412	41	142740	18.89	ug/L		95
16) Methyl acetate	0.000		0	N.D.			
17) Acetonitrile	0.000		0	N.D.	d		
18) Methylene chloride	2.537	49	136170	19.34	ug/L		98
19) t-Butanol	2.658	59	31741	104.40	ug/L	#	83
20) trans-1,2-Dichloroethene	2.815	61	153059	20.87	ug/L		99
21) Acrylonitrile	2.784	53	35771	20.53	ug/L		99
22) Methyl tert-butyl ether	2.805	73	269321	16.75	ug/L		98
23) Hexane	0.000		0	N.D.			
24) 1,1-Dichloroethane	3.313	63	195227	20.53	ug/L		99
25) Diisopropyl ether	3.382	45	306086	16.57	ug/L		96
26) Vinyl acetate	0.000		0	N.D.			
27) Chloroprene	0.000		0	N.D.			
28) n-Butanol	3.885	56	17858	178.29	ug/L	#	94
29) Ethyl tert butyl ether	3.880	59	274635	15.78	ug/L		99
30) 2,2-Dichloropropane	4.095	77	123150	17.17	ug/L		97
31) cis-1,2-Dichloroethene	4.105	61	172477	19.46	ug/L		100
32) 2-Butanone	4.126	43	63678	29.17	ug/L		97
33) Ethyl Acetate	4.226	43	74858	18.65	ug/L	#	95
34) Methyl acrylate	4.273	55	81373	18.20	ug/L		98
35) Propionitrile	4.970	54	16741	26.26	ug/L	#	83

Data Path : H:\VMS6\6V160921\
Data File : 21SEP28.D
Acq On : 21 Sep 2016 11:05 pm
Operator : BJG
Sample : 16091057-01A MS DF200
Misc : IS\SS 200-19373
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:39:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.472	49	87614	19.59 ug/L	96
37) Tetrahydrofuran	4.493	42	23097	14.49 ug/L	85
38) Methacrylonitrile	4.441	41	57086	14.79 ug/L	85
39) Chloroform	4.671	83	176758	19.09 ug/L	100
40) Cyclohexane	4.975	56	218164	23.75 ug/L	99
41) Isobutyl Alcohol	5.762	43	147956	11.81 ug/L #	57
43) 1,1,1-Trichloroethane	4.876	97	146240	20.33 ug/L	100
45) Carbon tetrachloride	5.127	117	112867	17.81 ug/L	98
46) 1,1-Dichloropropene	5.164	75	153884	20.00 ug/L	98
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	5.631	62	128089	18.18 ug/L	99
50) Benzene	5.479	78	469496	20.30 ug/L	100
51) Tertiaryamylmethylether	5.809	73	253940	15.73 ug/L #	99
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	7.010	83	171304	22.20 ug/L	98
54) Trichloroethene	6.690	130	118946	20.38 ug/L	99
55) 1,2-Dichloropropane	7.083	63	107644	18.78 ug/L	96
56) Dibromomethane	7.209	93	58928	18.14 ug/L	99
57) Methyl methacrylate	7.282	41	77445	15.79 ug/L	99
58) 1,4-Dioxane	7.172	88	8357	237.25 ug/L #	21
59) Bromodichloromethane	7.508	83	107242	15.45 ug/L	98
60) 2-Nitropropane	7.822	43	14918	15.51 ug/L #	91
61) cis-1,3-Dichloropropene	8.111	75	134187	14.66 ug/L	100
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	111130	21.50 ug/L	88
66) Toluene	8.504	91	601411	23.61 ug/L	99
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.861	75	109602	13.43 ug/L	88
69) Ethyl methacrylate	8.976	69	127727	16.92 ug/L	100
70) 1,1,2-Trichloroethane	9.086	97	91319	18.85 ug/L	97
71) Tetrachloroethene	9.117	166	131247	20.93 ug/L	99
72) 1,3-Dichloropropane	9.259	76	161868	18.65 ug/L	100
73) 2-Hexanone	9.374	43	57439	16.81 ug/L	99
74) Chlorodibromomethane	9.500	129	67765	12.72 ug/L	97
75) Butyl acetate	9.553	43	118001	13.75 ug/L	100
76) 1,2-Dibromoethane	9.605	107	89539	17.53 ug/L #	99
77) Chlorobenzene	10.166	112	309037	19.20 ug/L	100
78) 1,1,1,2-Tetrachloroethane	10.292	131	81195	15.80 ug/L	99
79) Ethylbenzene	10.302	91	567069	19.05 ug/L	100
80) m/p-Xylene	10.454	91	855841	37.83 ug/L	99
81) Styrene	10.895	104	329214	18.10 ug/L	100
82) o-Xylene	10.863	91	413988	18.35 ug/L	100
83) Bromoform	11.073	173	37814	12.61 ug/L	97
84) Isopropylbenzene	11.272	105	516509	21.22 ug/L	99
86) Bromobenzene	11.571	77	192599	19.08 ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.629	83	128922	19.95 ug/L	99
88) 1,2,3-Trichloropropane	11.671	110	37397	19.07 ug/L	96
89) trans-1,4-Dichloro-2-b...	11.666	53	17985	10.19 ug/L #	73
90) n-Propylbenzene	11.713	91	571930	21.17 ug/L	100
91) 2-Chlorotoluene	11.786	91	338250	19.89 ug/L	100
92) 4-Chlorotoluene	11.917	91	376514	19.84 ug/L	100
93) 1,3,5-Trimethylbenzene	11.917	105	367366	18.65 ug/L	100

Data Path : H:\VMS6\6V160921\
Data File : 21SEP28.D
Acq On : 21 Sep 2016 11:05 pm
Operator : BJG
Sample : 16091057-01A MS DF200
Misc : IS\SS 200-19373
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:39:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

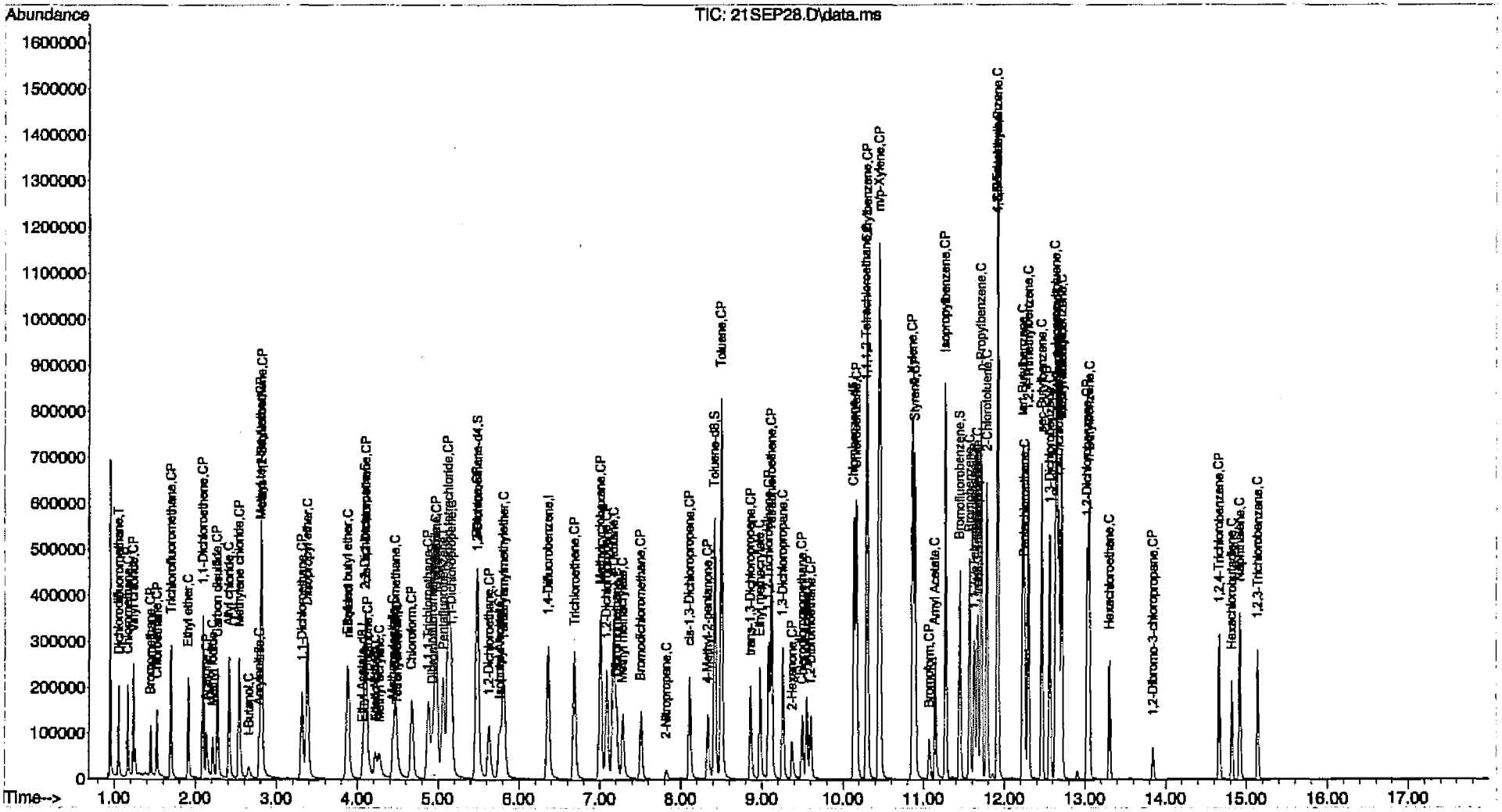
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	0.000		0	N.D.	
95) tert-Butylbenzene	12.232	91	195301	20.80 ug/L	94
96) Pentachloroethane	12.253	117	53329	100.97 ug/L #	1
97) 1,2,4-Trimethylbenzene	12.300	105	361446	18.04 ug/L	99
98) sec-Butylbenzene	12.468	105	429811	21.47 ug/L	100
100) 1,3-Dichlorobenzene	12.567	146	200123	19.02 ug/L	99
101) p-Isopropyltoluene	12.641	119	348220	18.22 ug/L	99
102) 1,4-Dichlorobenzene	12.677	146	204058	18.28 ug/L	99
103) 1,2,3-Trimethylbenzene	12.714	105	366780	20.25 ug/L	99
104) Benzyl chloride	12.714	91	31843	4.76 ug/L #	38
105) 1,2-Dichlorobenzene	13.029	146	187324	18.70 ug/L	100
106) n-Butylbenzene	13.055	91	288089	18.16 ug/L	99
107) Hexachloroethane	13.307	117	29689	12.91 ug/L	96
108) 1,2-Dibromo-3-chloropr...	13.847	157	16165	13.04 ug/L	99
109) 1,3,5-Trichlorobenzene	0.000		0	N.D.	
110) 1,2,4-Trichlorobenzene	14.665	180	86685	17.29 ug/L	98
111) Hexachlorobutadiene	14.822	225	36814	17.56 ug/L	98
112) Naphthalene	14.921	128	262790	15.59 ug/L	100
113) 1,2,3-Trichlorobenzene	15.142	180	77415	17.52 ug/L	99
114) 2-Methylnaphthalene	0.000		0	N.D.	
115) 1-Methylnaphthalene	0.000		0	N.D.	
117) 2-Propanone	2.134	43	109578	Below Cal	98
118) Acetic Ether	4.226	43	72391	19.61 ug/L	99
119) Isopropyl Acetate	5.762	61	29254	19.23 ug/L #	48
120) Amyl Acetate	11.141	43	132235	18.16 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP28.D
Acq On : 21 Sep 2016 11:05 pm
Operator : BJG
Sample : 16091057-01A MS DF200
Misc : IS\SS 200-19373
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:39:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP29.D
Acq On : 21 Sep 2016 11:32 pm
Operator : BJG
Sample : 16091057-01A MSD DF200
Misc : 200-19381 20PPB
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 22 09:39:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.059	168	206673	20.00 ug/L	0.00
42) 1,4-Difluorobenzene	6.360	114	311897	20.00 ug/L	0.00
63) Chlorobenzene-d5	10.135	117	293220	20.00 ug/L	0.00
99) 1,4-Dichlorobenzene-d4	12.657	152	137820	20.00 ug/L	0.00
116) Ethyl Acetate-d8	4.063	46	35120	20.00 ug/L #	0.00
System Monitoring Compounds					
44) Dibromofluoromethane	4.928	111	87407	20.09 ug/L	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 100.45%		
48) 1,2-Dichloroethane-d4	5.489	65	104709	19.71 ug/L	0.00
Spiked Amount 20.000	Range 75 - 120		Recovery = 98.55%		
65) Toluene-d8	8.420	98	385110	20.04 ug/L	0.00
Spiked Amount 20.000	Range 85 - 110		Recovery = 100.20%		
85) Bromofluorobenzene	11.451	95	136952	19.87 ug/L	0.00
Spiked Amount 20.000	Range 80 - 110		Recovery = 99.35%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.054	85	101740	14.34 ug/L	99
3) Chloromethane	1.164	50	115074	19.20 ug/L	98
4) Vinyl chloride	1.237	62	137571	18.82 ug/L	99
5) Bromomethane	1.447	94	42321	20.16 ug/L	97
6) Chloroethane	1.520	64	88304	19.33 ug/L	98
7) Trichlorofluoromethane	1.699	101	153041	18.79 ug/L	100
8) Ethyl ether	1.908	59	85859	19.47 ug/L	98
9) Acrolein	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.092	61	165173	22.39 ug/L	99
11) 1,1,2-Trichlorotrifluo...	0.000		0	N.D.	
12) Methyl iodide	2.212	142	78214	15.58 ug/L	97
13) Acetone	2.134	43	113447	80.11 ug/L	99
14) Carbon disulfide	2.275	76	277189	20.32 ug/L	100
15) Allyl chloride	2.412	41	151224	19.82 ug/L	95
16) Methyl acetate	0.000		0	N.D.	
17) Acetonitrile	0.000		0	N.D. d	
18) Methylene chloride	2.538	49	136859	19.26 ug/L	99
19) t-Butanol	2.658	59	35038	112.93 ug/L #	84
20) trans-1,2-Dichloroethene	2.815	61	157451	21.26 ug/L	99
21) Acrylonitrile	2.784	53	35627	20.28 ug/L	97
22) Methyl tert-butyl ether	2.810	73	277066	17.07 ug/L	98
23) Hexane	0.000		0	N.D.	
24) 1,1-Dichloroethane	3.314	63	199826	20.82 ug/L	99
25) Diisopropyl ether	3.382	45	313662	16.82 ug/L	96
26) Vinyl acetate	0.000		0	N.D.	
27) Chloroprene	0.000		0	N.D.	
28) n-Butanol	3.880	56	17373	171.61 ug/L #	97
29) Ethyl tert butyl ether	3.885	59	280431	15.96 ug/L	100
30) 2,2-Dichloropropane	4.095	77	124761	17.23 ug/L	99
31) cis-1,2-Dichloroethene	4.105	61	172676	19.30 ug/L	100
32) 2-Butanone	4.121	43	68944	31.15 ug/L	97
33) Ethyl Acetate	4.221	43	75296	18.58 ug/L #	95
34) Methyl acrylate	4.268	55	84057	18.57 ug/L	96
35) Propionitrile	4.976	54	16864	26.20 ug/L #	87

Data Path : H:\VMS6\6V160921\
Data File : 21SEP29.D
Acq On : 21 Sep 2016 11:32 pm
Operator : BJG
Sample : 16091057-01A MSD DF200
Misc : 200-19381 20PPB
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 22 09:39:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Bromochloromethane	4.467	49	87594	19.40 ug/L	97
37) Tetrahydrofuran	4.493	42	23374	14.52 ug/L	81
38) Methacrylonitrile	4.446	41	75300	18.84 ug/L	97
39) Chloroform	4.677	83	180691	19.33 ug/L	99
40) Cyclohexane	4.976	56	225533	24.32 ug/L	99
41) Isobutyl Alcohol	5.757	43	154955	12.24 ug/L #	56
43) 1,1,1-Trichloroethane	4.876	97	152764	21.32 ug/L	99
45) Carbon tetrachloride	5.128	117	119440	18.93 ug/L	100
46) 1,1-Dichloropropene	5.159	75	156398	20.40 ug/L	98
47) 2,2,4-Trimethylpentane	0.000		0	N.D.	
49) 1,2-Dichloroethane	5.631	62	131954	18.80 ug/L	99
50) Benzene	5.479	78	481569	20.91 ug/L	100
51) Tertiaryamylmethylether	5.809	73	263470	16.38 ug/L #	99
52) Heptane	0.000		0	N.D.	
53) Methylcyclohexane	7.010	83	178554	23.23 ug/L	99
54) Trichloroethene	6.685	130	119583	20.57 ug/L	99
55) 1,2-Dichloropropane	7.089	63	110179	19.30 ug/L	95
56) Dibromomethane	7.209	93	59940	18.53 ug/L	100
57) Methyl methacrylate	7.283	41	80865	16.50 ug/L	99
58) 1,4-Dioxane	7.172	88	7723	217.44 ug/L #	21
59) Bromodichloromethane	7.513	83	110367	15.94 ug/L	99
60) 2-Nitropropane	7.823	43	16408	16.97 ug/L #	81
61) cis-1,3-Dichloropropene	8.111	75	141709	15.50 ug/L	99
62) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
64) 4-Methyl-2-pentanone	8.336	43	110632	21.29 ug/L	91
66) Toluene	8.504	91	615787	24.04 ug/L	99
67) Chloropicrin	0.000		0	N.D.	
68) trans-1,3-Dichloropropene	8.861	75	115963	14.07 ug/L	86
69) Ethyl methacrylate	8.976	69	130333	17.15 ug/L	99
70) 1,1,2-Trichloroethane	9.081	97	94482	19.39 ug/L	99
71) Tetrachloroethene	9.118	166	133656	21.19 ug/L	99
72) 1,3-Dichloropropane	9.259	76	165065	18.91 ug/L	100
73) 2-Hexanone	9.374	43	60453	17.52 ug/L	97
74) Chlorodibromomethane	9.500	129	68984	12.87 ug/L	100
75) Butyl acetate	9.553	43	121011	13.99 ug/L	99
76) 1,2-Dibromoethane	9.605	107	91367	17.78 ug/L #	97
77) Chlorobenzene	10.166	112	312646	19.31 ug/L	99
78) 1,1,1,2-Tetrachloroethane	10.292	131	84443	16.32 ug/L	99
79) Ethylbenzene	10.303	91	579828	19.37 ug/L	100
80) m/p-Xylene	10.455	91	875218	38.46 ug/L	100
81) Styrene	10.895	104	336002	18.37 ug/L	100
82) o-Xylene	10.864	91	426926	18.81 ug/L	100
83) Bromoform	11.073	173	39057	12.92 ug/L	99
84) Isopropylbenzene	11.272	105	523242	21.37 ug/L	98
86) Bromobenzene	11.566	77	196696	19.37 ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.629	83	131965	20.30 ug/L	100
88) 1,2,3-Trichloropropane	11.671	110	38008	19.27 ug/L	97
89) trans-1,4-Dichloro-2-b...	11.666	53	17996	10.14 ug/L #	75
90) n-Propylbenzene	11.713	91	579474	21.32 ug/L	100
91) 2-Chlorotoluene	11.781	91	350644	20.50 ug/L	100
92) 4-Chlorotoluene	11.917	91	389080	20.38 ug/L	100
93) 1,3,5-Trimethylbenzene	11.917	105	374376	18.89 ug/L	99

Data Path : H:\VMS6\6V160921\
Data File : 21SEP29.D
Acq On : 21 Sep 2016 11:32 pm
Operator : BJG
Sample : 16091057-01A MSD DF200
Misc : 200-19381 20PPB
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 22 09:39:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration

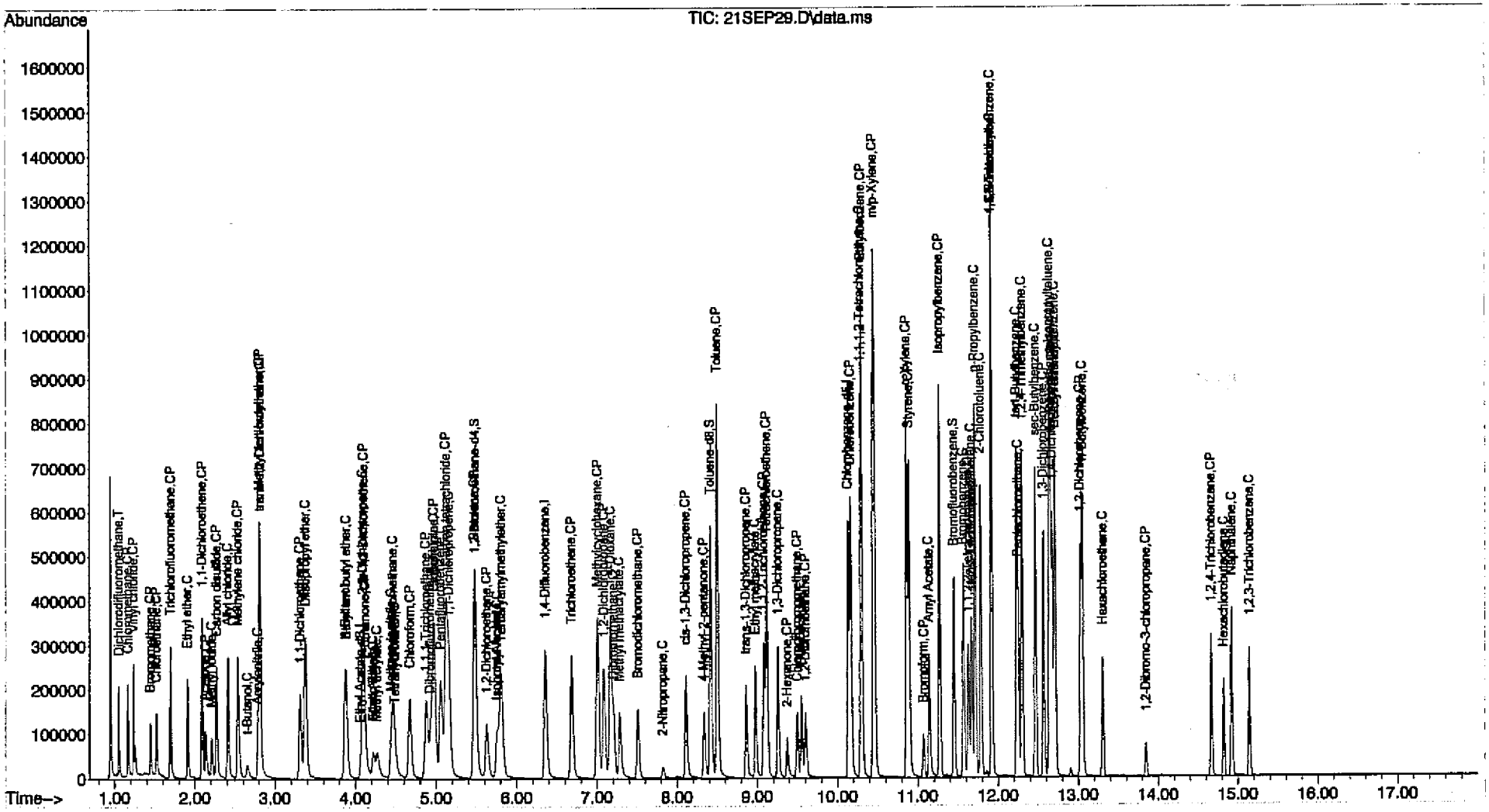
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Cyclohexanone	0.000		0	N.D.	
95) tert-Butylbenzene	12.232	91	198559	21.02 ug/L	96
96) Pentachloroethane	12.253	117	56220	105.82 ug/L #	1
97) 1,2,4-Trimethylbenzene	12.300	105	367126	18.22 ug/L	100
98) sec-Butylbenzene	12.468	105	446340	22.17 ug/L	100
100) 1,3-Dichlorobenzene	12.568	146	203547	19.70 ug/L	98
101) p-Isopropyltoluene	12.641	119	359317	19.14 ug/L	99
102) 1,4-Dichlorobenzene	12.678	146	208431	19.01 ug/L	99
103) 1,2,3-Trimethylbenzene	12.709	105	381944	21.47 ug/L	98
104) Benzyl chloride	12.714	91	33197	4.93 ug/L #	39
105) 1,2-Dichlorobenzene	13.029	146	191179	19.43 ug/L	99
106) n-Butylbenzene	13.055	91	298969	19.18 ug/L	99
107) Hexachloroethane	13.307	117	32316	14.17 ug/L	99
108) 1,2-Dibromo-3-chloropr...	13.847	157	16646	13.60 ug/L	98
109) 1,3,5-Trichlorobenzene	0.000		0	N.D.	
110) 1,2,4-Trichlorobenzene	14.665	180	87459	17.76 ug/L	98
111) Hexachlorobutadiene	14.822	225	39436	19.16 ug/L	99
112) Naphthalene	14.922	128	275936	16.60 ug/L	100
113) 1,2,3-Trichlorobenzene	15.142	180	78680	18.13 ug/L	99
114) 2-Methylnaphthalene	0.000		0	N.D.	
115) 1-Methylnaphthalene	0.000		0	N.D.	
117) 2-Propanone	2.134	43	113447	Below Cal	99
118) Acetic Ether	4.221	43	75296	20.30 ug/L	99
119) Isopropyl Acetate	5.757	61	32311	21.31 ug/L #	41
120) Amyl Acetate	11.141	43	134768	18.40 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\VMS6\6V160921\
Data File : 21SEP29.D
Acq On : 21 Sep 2016 11:32 pm
Operator : BJG
Sample : 16091057-01A MSD DF200
Misc : 200-19381 20PPB
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 22 09:39:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6AC0916B.M
Quant Title : 8260B/624 Volatile Calibration
QLast Update : Tue Sep 20 15:06:12 2016
Response via : Initial Calibration



Sequence Log 2016 Sep 20 0925

Instrument Name: VMS6
Sequence File: C:\msdchem\1\sequence\VMS6_160920.S
Comment:
Operator: BJG
Data Path: C:\MSDCHEM\1\DATA\6V160920\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	BFB	1	20SEP01	BFB	VBFB1-160920
2)	Sample	1	20SEP02	6AC0916B	VCCV1-160920
3)	Sample	1	20SEP03	6AC0916B	VCCV1-160920
4)	Sample	2	20SEP04	6AC0916B	VLCSW1-160920
5)	Sample	3	20SEP05	6AC0916B	LCS-
6)	Sample	4	20SEP06	6AC0916B	BLK
7)	Sample	5	20SEP07	6AC0916B	VBLKW1-160920
8)	Sample	6	20SEP08	6AC0916B	MBLK-
9)	Sample	7	20SEP09	6AC0916B	16091057-02A
10)	Sample	8	20SEP10	6AC0916B	16091057-01A DF10
11)	Sample	9	20SEP11	6AC0916B	1609864-01E DF5
12)	Sample	10	20SEP12	6AC0916B	1609971-03B
13)	Sample	11	20SEP13	6AC0916B	16091042-01A
14)	Sample	12	20SEP14	6AC0916B	16091042-02A
15)	Sample	13	20SEP15	6AC0916B	1609923-04A
16)	Sample	14	20SEP16	6AC0916B	1609975-11A
17)	Sample	15	20SEP17	6AC0916B	1609923-01A
18)	Sample	16	20SEP18	6AC0916B	1609923-02A
19)	Sample	17	20SEP19	6AC0916B	1609923-03A
20)	Sample	18	20SEP20	6AC0916B	1609975-10A
21)	Sample	19	20SEP21	6AC0916B	1609975-08A
22)	Sample	20	20SEP22	6AC0916B	1609975-06A
23)	Sample	21	20SEP23	6AC0916B	1609975-02A
24)	Sample	22	20SEP24	6AC0916B	1609975-04A
25)	Sample	23	20SEP25	6AC0916B	1609923-01A MS DF10
26)	Sample	24	20SEP26	6AC0916B	1609923-01A MS DF10
27)	Sample	25	20SEP27	6AC0916B	BLK

28)	Sample	26	20SEP28	BFB	VBFB2-160920	
29)	Sample	27	20SEP29	6AC0916B	VCCV3-160920	
30)	Sample	28	20SEP30	6AC0916B	VCCV4-160920	
31)	Sample	29	20SEP31	6AC0916B	VLCSW2-160920	
32)	Sample	30	20SEP32	6AC0916B	BLK	
33)	Sample	31	20SEP33	6AC0916B	VBLKW2-160920	
34)	Sample	32	20SEP34	6AC0916B	1609899-14B	
35)	Sample	33	20SEP35	6AC0916B	1609899-15B	
36)	Sample	34	20SEP36	6AC0916B	1609899-26A	
37)	Sample	35	20SEP37	6AC0916B	1609670-14B	
38)	Sample	36	20SEP38	6AC0916B	1609670-15B	
39)	Sample	37	20SEP39	6AC0916B	1609670-26A	
40)	Sample	38	20SEP40	6AC0916B	1609859-01A	DF50
41)	Sample	39	20SEP41	6AC0916B	1609859-02A	DF25
42)	Sample	40	20SEP42	6AC0916B	1609859-03A	DF25
43)	Sample	41	20SEP43	6AC0916B	1609859-04A	
44)	Sample	42	20SEP44	6AC0916B	1609859-05A	
45)	Sample	43	20SEP45	6AC0916B	1609859-06A	DF10
46)	Sample	44	20SEP46	6AC0916B	1609859-07A	DF50
47)	Sample	45	20SEP47	6AC0916B	1609859-08A	DF50
48)	Sample	46	20SEP48	6AC0916B	1609859-09A	
49)	Sample	47	20SEP49	6AC0916B	1609859-10A	DF5
50)	Sample	48	20SEP50	6AC0916B	1609859-11A	
51)	Sample	49	20SEP51	6AC0916B	1609859-12A	
52)	Sample	50	20SEP52	6AC0916B	1609881-18A	
53)	Sample	51	20SEP53	6AC0916B	1609969-01B	DF10
54)	Sample	52	20SEP54	6AC0916B	1609859-08A	MS DF50
55)	Sample	53	20SEP55	6AC0916B	1609859-08A	MSD DF50
56)	Sample	54	20SEP56	6AC0916B	BLK	

Sequence completed Wed Sep 21 10:47:27 2016

Sequence Log 2016 Sep 21 1050

Instrument Name: VMS6
Sequence File: C:\msdchem\1\sequence\VMS6_160921.S
Comment:
Operator: BJG
Data Path: C:\MSDCHEM\1\DATA\6V160921\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	4	21SEP01	6AC0916B	BLK
2)	Sample	4	21SEP02	6AC0916B	BLK
3)	BFB	1	21SEP03	BFB	VBFB1-160921
4)	Sample	1	21SEP04	6AC0916B	VCCV1-160921
5)	Sample	1	21SEP05	6AC0916B	VCCV2-160921
6)	Sample	2	21SEP06	6AC0916B	LCS-91646
7)	Sample	3	21SEP07	6AC0916B	BLK
8)	Sample	4	21SEP08	6AC0916B	VBLKW1-160921
9)	Sample	5	21SEP09	6AC0916B	MBLK-91646
10)	Sample	6	21SEP10	6AC0916B	16091057-01A DF200
11)	Sample	7	21SEP11	6AC0916B	1609864-01E
12)	Sample	8	21SEP12	6AC0916B	1609826-01C DF5
13)	Sample	9	21SEP13	6AC0916B	1609826-02C
14)	Sample	10	21SEP14	6AC0916B	1609826-01C
15)	Sample	11	21SEP15	6AC0916B	1609859-04A DF5
16)	Sample	12	21SEP16	6AC0916B	1609859-05A DF5
17)	Sample	13	21SEP17	6AC0916B	1609859-10A
18)	Sample	14	21SEP18	6AC0916B	1609849-02A DF20
19)	Sample	15	21SEP19	6AC0916B	16091019-02A DF20
20)	Sample	16	21SEP20	6AC0916B	1609985-01A DF20
21)	Sample	17	21SEP21	6AC0916B	1609985-03A DF20
22)	Sample	18	21SEP22	6AC0916B	1609859-01A DF5
23)	Sample	19	21SEP23	6AC0916B	1609859-02A DF5
24)	Sample	20	21SEP24	6AC0916B	1609859-03A DF5
25)	Sample	21	21SEP25	6AC0916B	1609859-06A DF5
26)	Sample	22	21SEP26	6AC0916B	1609859-07A DF5
27)	Sample	23	21SEP27	6AC0916B	1609859-08A DF5

28)	Sample	24	21SEP28	6AC0916B	1609826-01C
29)	Sample	25	21SEP29	6AC0916B	16091057-01A MS DF200
30)	Sample	26	21SEP30	6AC0916B	16091057-01A MSD DF200
31)	Sample	27	21SEP31	6AC0916B	BLK
32)	Sample	28	21SEP32	BFB	VBFB2-160921
33)	Sample	29	21SEP33	6AC0916B	VCCV3-160921
34)	Sample	30	21SEP34	6AC0916B	VCCV4-160921
35)	Sample	31	21SEP35	6AC0916B	VLCSW2-160921
36)	Sample	32	21SEP36	6AC0916B	LCS-
37)	Sample	33	21SEP37	6AC0916B	BLK
38)	Sample	34	21SEP38	6AC0916B	VBLKW2-160921
39)	Sample	35	21SEP39	6AC0916B	MBLK-
40)	Sample	36	21SEP40	6AC0916B	16091011-03A
41)	Sample	37	21SEP41	6AC0916B	1609872-35A
42)	Sample	38	21SEP42	6AC0916B	1609872-21A
43)	Sample	39	21SEP43	6AC0916B	1609872-22A
44)	Sample	40	21SEP44	6AC0916B	1609872-23A
45)	Sample	41	21SEP45	6AC0916B	1609872-24A
46)	Sample	42	21SEP46	6AC0916B	1609872-25A
47)	Sample	43	21SEP47	6AC0916B	1609872-26A
48)	Sample	44	21SEP48	6AC0916B	1609872-27A
49)	Sample	45	21SEP49	6AC0916B	1609872-28A
50)	Sample	46	21SEP50	6AC0916B	1609872-29A
51)	Sample	47	21SEP51	6AC0916B	1609872-30A
52)	Sample	48	21SEP52	6AC0916B	1609872-31A
53)	Sample	50	21SEP53	6AC0916B	1609872-33A
54)	Sample	51	21SEP54	6AC0916B	1609872-34A
55)	Sample	52	21SEP55	6AC0916B	16091011-01A
56)	Sample	53	21SEP56	6AC0916B	16091011-02A
57)	Sample	54	21SEP57	6AC0916B	1609872-21A MS DF20
58)	Sample	55	21SEP58	6AC0916B	1609872-21A MSD DF20

Sequence Log 2016 Sep 21 1050

59) Sample 56 21SEP59 6AC0916B BLK

Sequence completed Thu Sep 22 12:54:34 2016

C:\MSDCHEM\1\DATA\6V160921\ Quality Log 2016 Sep 21 1050.LOG
C:\MSDCHEM\1\DATA\6V160921\Sequence Log 2016 Sep 21 1050.LOG

GC/MS
Semi-Volatile Organics

ADDRESS 3352 128th Avenue, Holland Michigan 49424-9236 USA | PHONE +1 616 399 6070 | FAX +1 616 399 6185
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211615.D Vial: 12
Acq On : 21 Sep 2016 2:19 pm Operator: JF
Sample : 16091057-01B Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:36:33 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	523849	40.00 ug/ml	0.00
24) Naphthalene-d8	4.02	136	1441082	40.00 ug/ml	0.00
43) Acenaphthene-d10	5.14	164	1026988	40.00 ug/ml	0.00
68) Phenanthrene-d10	6.21	188	1852520	40.00 ug/ml	0.02
81) Chrysene-d12	8.81	240	1447672	40.00 ug/ml	0.04
91) Perylene-d12	11.29	264	1362879	40.00 ug/ml	0.02
System Monitoring Compounds					
5) 2-Fluorophenol	2.60	112	152824	16.75 ug/ml	-0.01
Spiked Amount 50.000	Range 7 - 75		Recovery = 33.50%		
7) Phenol-d6	3.06	99	140097	10.30 ug/ml	0.00
Spiked Amount 50.000	Range 3 - 67		Recovery = 20.60%		
25) Nitrobenzene-d5	3.58	82	364461	26.65 ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 53.30%		
48) 2-Fluorobiphenyl	4.68	172	1074208	33.73 ug/ml	0.00
Spiked Amount 50.000	Range 20 - 122		Recovery = 67.46%		
72) 2,4,6-Tribromophenol	5.70	330	211185	37.70 ug/ml	0.02
Spiked Amount 50.000	Range 24 - 162		Recovery = 75.40%		
85) 4-Terphenyl-d14	7.54	244	1148432	40.92 ug/ml	0.05
Spiked Amount 50.000	Range 22 - 172		Recovery = 81.84%		

Target Compounds					Qvalue
2) 1,4-Dioxane	0.00	88	0	N.D. d	
3) Pyridine	2.13	79	225	Below Cal #	1
4) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
6) Benzaldehyde	3.03	77	8814	2.03 ug/ml#	73
8) Phenol	3.07	94	17494	0.79 ug/ml	85
9) Aniline	3.11	93	5316	Below Cal #	41
10) Bis(2-chloroethyl)ether	3.11	93	5316	Below Cal #	18
11) 2-Chlorophenol	3.16	128	189	Below Cal #	35
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl alcohol	3.34	108	17208	2.08 ug/ml	79
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) 2-Methylphenol	3.40	107	39692	4.34 ug/ml	87
17) 2,2'-Oxybis(1-chloropropan	3.43	45	1468	Below Cal #	1
18) 3-Methylphenol	3.49	107	76747m	6.41 ug/ml	
19) 4-Methylphenol	3.49	107	77323m	6.45 ug/ml	
20) 3&4-Methylphenol	3.49	107	81230	6.76 ug/ml#	71
21) Acetophenone	3.49	105	77021	4.27 ug/ml#	87
22) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
23) Hexachloroethane	0.00	117	0	N.D. d	
26) Nitrobenzene	0.00	123	0	N.D. d	
27) Isophorone	3.73	82	3109288	130.09 ug/ml	90
28) 2-Nitrophenol	0.00	139	0	N.D. d	
29) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
30) Bis(2-chloroethoxy)methane	0.00	93	0	N.D. d	
31) Benzoic acid	3.85	122	109375	14.12 ug/ml#	75
32) 2,4-Dichlorophenol	0.00	162	0	N.D. d	
33) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
34) Naphthalene	4.03	128	87797	2.22 ug/ml	96
35) 4-Chloroaniline	0.00	127	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211615.D Vial: 12
Acq On : 21 Sep 2016 2:19 pm Operator: JF
Sample : 16091057-01B Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:36:33 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	2,6-Dichlorophenol	0.00	162	0	N.D. d	
37)	Hexachlorobutadiene	0.00	225	0	N.D.	
38)	Caprolactam	0.00	55	0	N.D. d	
39)	4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
40)	2-Methylnaphthalene	4.46	142	10700	0.45 ug/ml	95
41)	1-Methylnaphthalene	4.52	142	8510	0.34 ug/ml	81
42)	1,1`-Biphenyl	4.76	154	5676	Below Cal #	1
44)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
45)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
46)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
47)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
49)	1,3-Dinitrobenzene	0.00	168	0	N.D. d	
50)	2-Chloronaphthalene	0.00	162	0	N.D. d	
51)	2-Nitroaniline	0.00	65	0	N.D. d	
52)	Dimethylphthalate	0.00	163	0	N.D. d	
53)	2,3,5,6-Tetrachlorophenol	0.00	232	0	N.D. d	
54)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d	
55)	Acenaphthylene	0.00	152	0	N.D. d	
56)	2,6-Dinitrotoluene	0.00	165	0	N.D. d	
57)	3-Nitroaniline	0.00	138	0	N.D. d	
58)	Acenaphthene	5.17	154	16455	0.83 ug/ml	89
59)	2,4-Dinitrophenol	0.00	184	0	N.D.	
60)	Dibenzofuran	5.28	168	27489	0.65 ug/ml	88
61)	4-Nitrophenol	0.00	65	0	N.D. d	
62)	2,4-Dinitrotoluene	0.00	165	0	N.D. d	
63)	Diethylphthalate	5.43	149	6165	0.21 ug/ml	76
64)	Fluorene	5.53	166	48252	1.43 ug/ml	95
65)	4-Chlorophenyl phenyl ethe	0.00	204	0	N.D. d	
66)	4-Nitroaniline	0.00	138	0	N.D. d	
67)	Atrazine	0.00	200	0	N.D. d	
69)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
70)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d	
71)	1,2-Diphenylhydrazine	0.00	77	0	N.D. d	
73)	4-Bromophenyl phenyl ether	0.00	248	0	N.D. d	
74)	Hexachlorobenzene	0.00	284	0	N.D.	
75)	Pentachlorophenol	0.00	266	0	N.D. d	
76)	Phenanthrene	6.23	178	182956	3.51 ug/ml	97
77)	Anthracene	6.27	178	70374	1.48 ug/ml	88
78)	Carbazole	6.39	167	66812	1.49 ug/ml#	89
79)	Di-n-butylphthalate	6.64	149	26986	0.66 ug/ml	59
80)	Fluoranthene	7.40	202	184092	2.96 ug/ml	84
82)	3,3-Dimethylbenzidine	0.00	212	0	N.D. d	
83)	Benzidine	0.00	184	0	N.D. d	
84)	Pyrene	7.40	202	184130	4.68 ug/ml	87
86)	Butylbenzylphthalate	0.00	149	0	N.D. d	
87)	Benzo[a]anthracene	8.80	228	80167	2.16 ug/ml	85
88)	3,3'-Dichlorobenzidine	0.00	252	0	N.D. d	
89)	Chrysene	8.85	228	80290	2.16 ug/ml	94
90)	Bis(2-ethylhexyl)phthalate	8.87	149	834683	33.60 ug/ml	87
92)	Di-n-octylphthalate	9.97	149	899554	22.28 ug/ml	95
93)	Benzo(b)fluoranthene	10.57	252	102473m	3.34 ug/ml	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211615.D Vial: 12
Acq On : 21 Sep 2016 2:19 pm Operator: JF
Sample : 16091057-01B Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:36:33 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

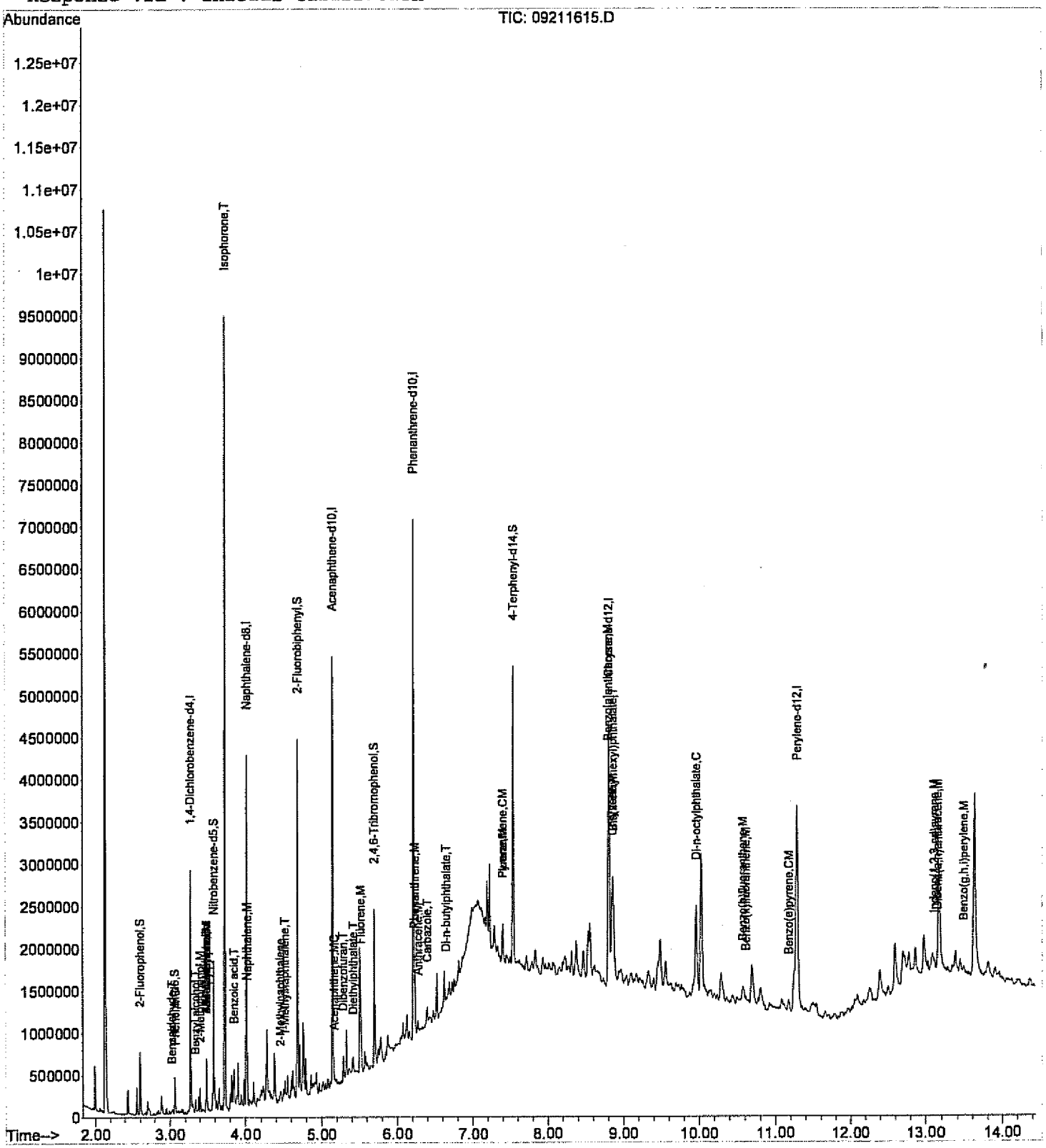
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.62	252	45460m	1.51 ug/ml	
95)	Benzo(a)pyrene	11.18	252	64461	2.61 ug/ml	88
96)	Indeno(1,2,3-cd)pyrene	13.12	276	47121	2.33 ug/ml#	58
97)	Dibenz(a,h)anthracene	13.15	278	11682	0.47 ug/ml#	50
98)	Benzo(g,h,i)perylene	13.47	276	49709	1.57 ug/ml	82

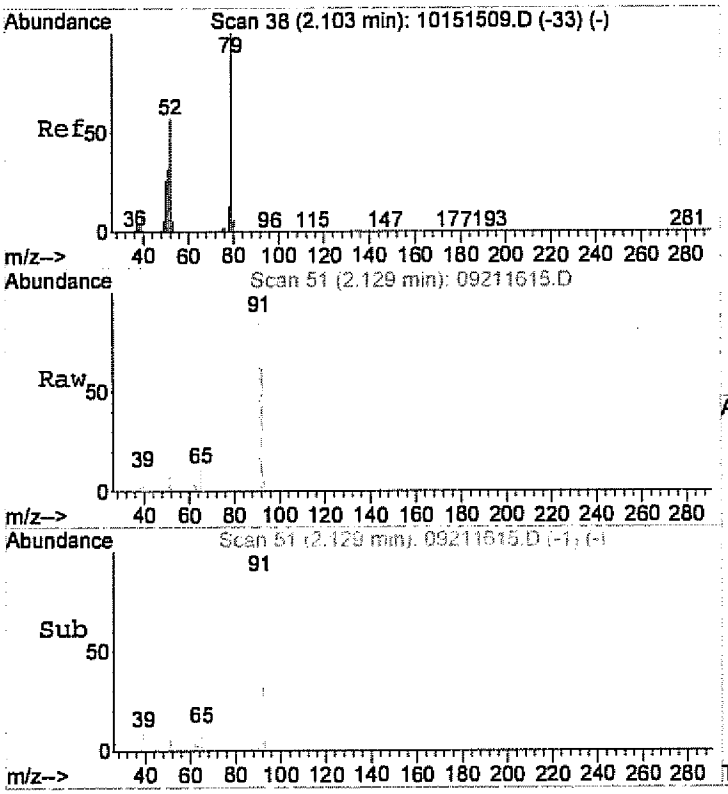
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211615.D Vial: 12
Acq On : 21 Sep 2016 2:19 pm Operator: JF
Sample : 16091057-01B Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:44 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration

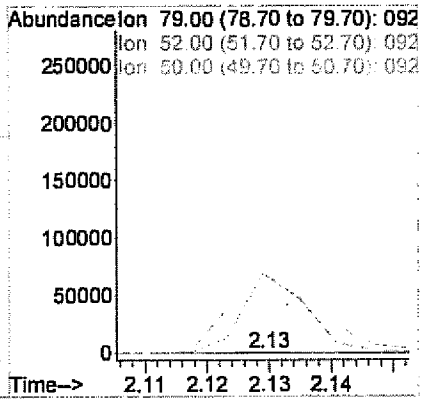


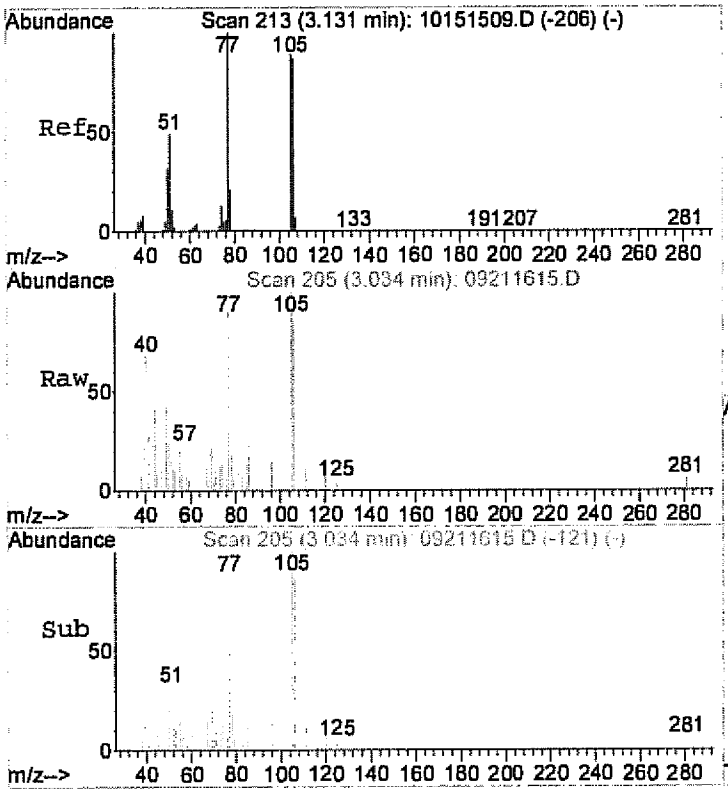


#3
Pyridine
Concen: Below Cal
RT: 2.13 min Scan# 51
Delta R.T. 0.09 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion: 79 Resp: 225

Ion	Ratio	Lower	Upper
79	100		
52	22404.9	23.6	83.6#
50	64787.6	0.0	57.9#

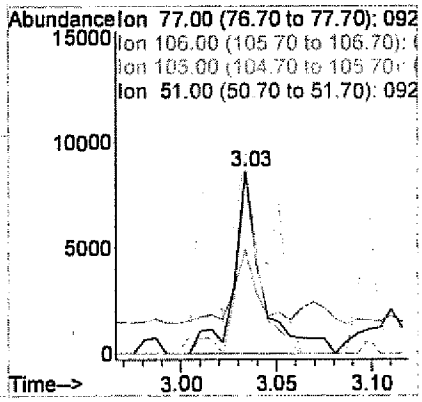


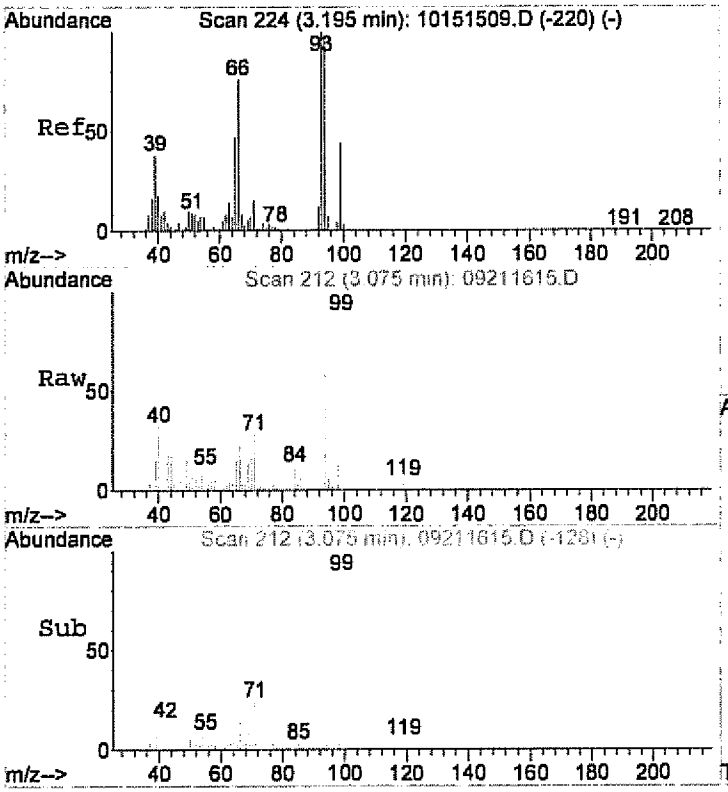


#6
Benzaldehyde
Concen: 2.03 ug/ml
RT: 3.03 min Scan# 205
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion: 77 Resp: 8814

Ion	Ratio	Lower	Upper
77	100		
106	79.5	59.6	110.6
105	132.9	61.2	113.6#
51	34.1	36.7	68.1#

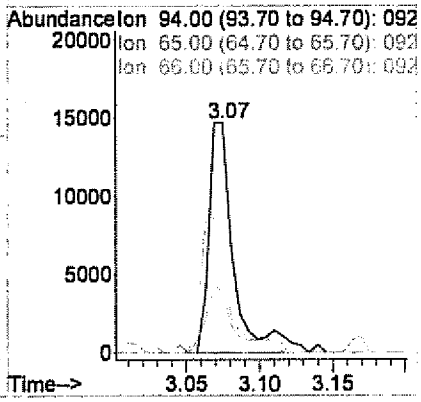


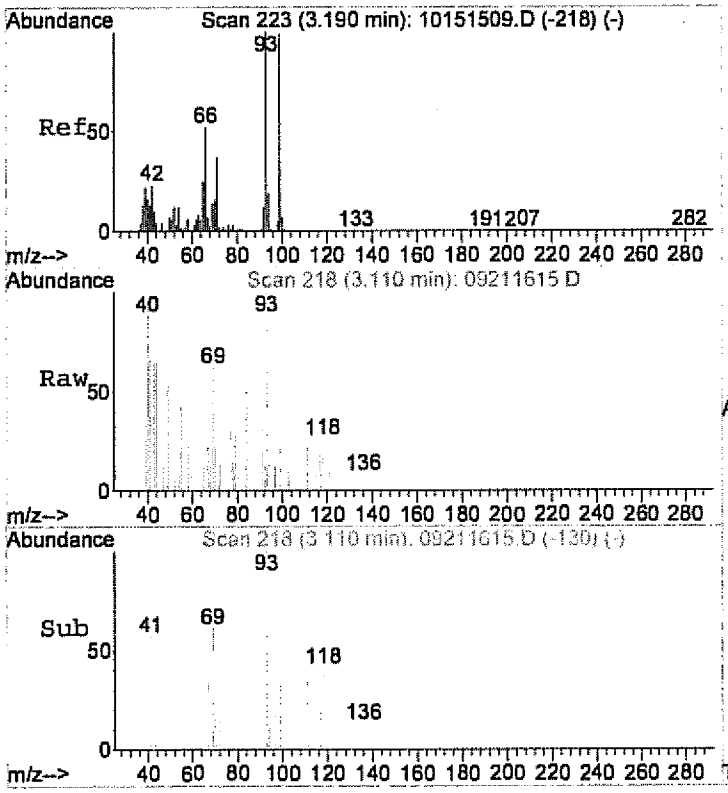


#8
Phenol
Concen: 0.79 ug/ml
RT: 3.07 min Scan# 212
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion: 94 Resp: 17494

Ion	Ratio	Lower	Upper
94	100		
65	36.7	3.0	63.0
66	64.5	20.2	80.2

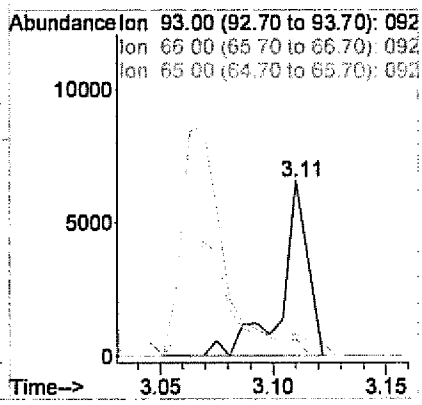


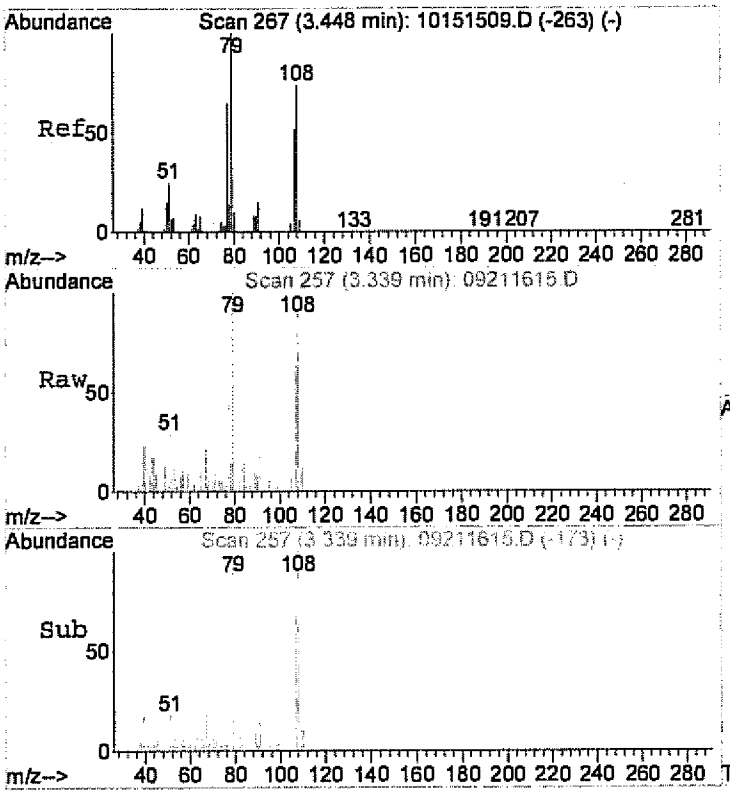


#9
Aniline
Concen: Below Cal
RT: 3.11 min Scan# 218
Delta R.T. 0.02 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion: 93 Resp: 5316

Ion	Ratio	Lower	Upper
93	100		
66	0.0	11.2	71.2#
65	0.0	0.0	52.0

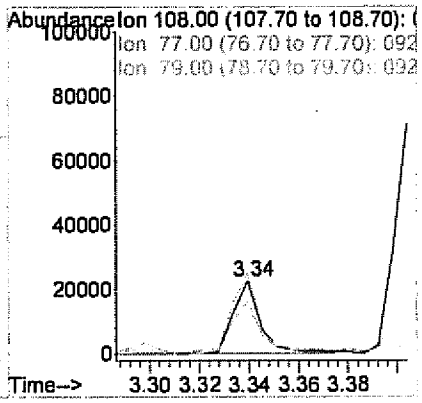


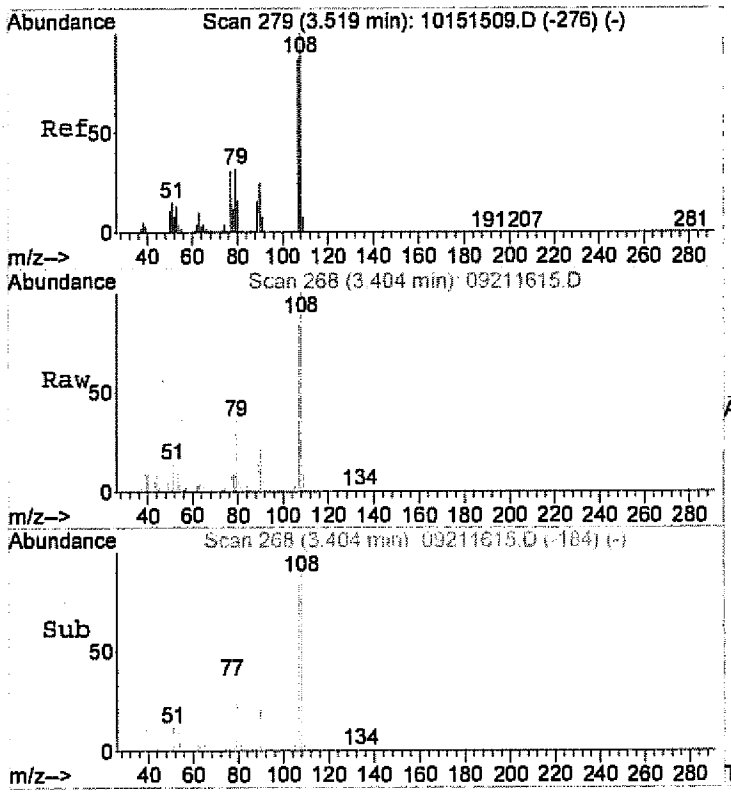


#14
Benzyl alcohol
Concen: 2.08 ug/ml
RT: 3.34 min Scan# 257
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:108 Resp: 17208

Ion	Ratio	Lower	Upper
108	100		
77	71.1	68.7	128.7
79	128.0	118.6	178.6

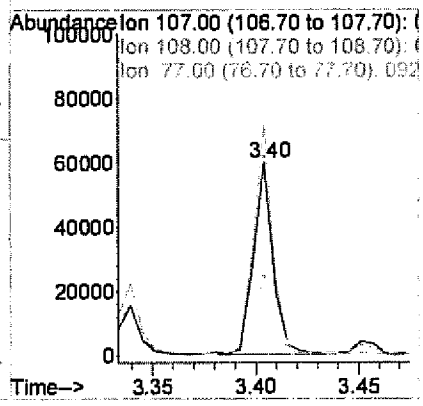


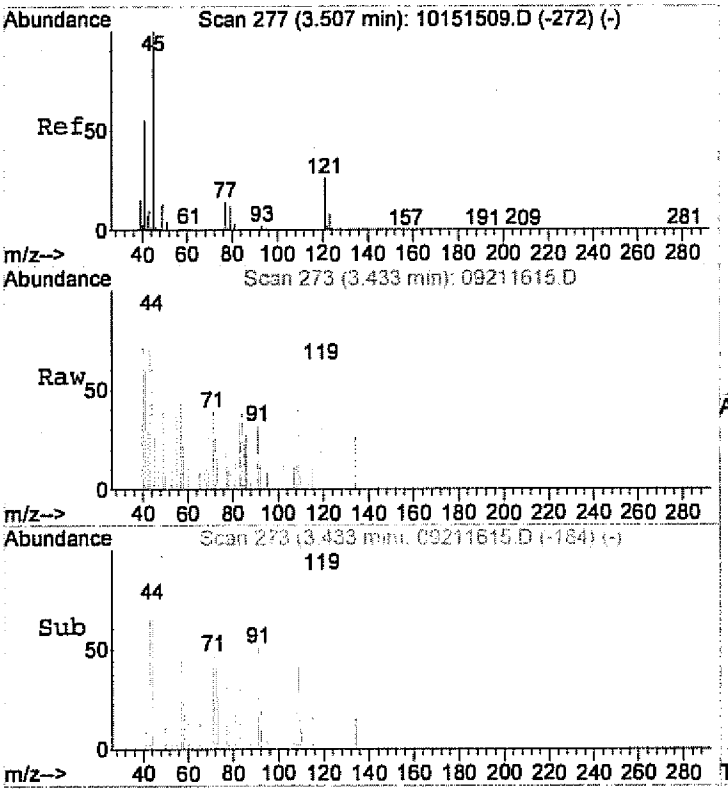


#16
2-Methylphenol
Concen: 4.34 ug/ml
RT: 3.40 min Scan# 268
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:107 Resp: 39692

Ion	Ratio	Lower	Upper
107	100		
108	124.3	81.9	141.9
77	41.8	24.1	84.1

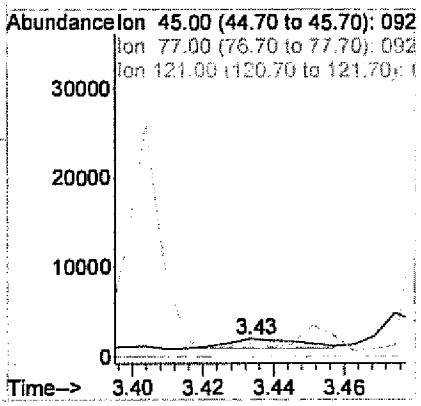


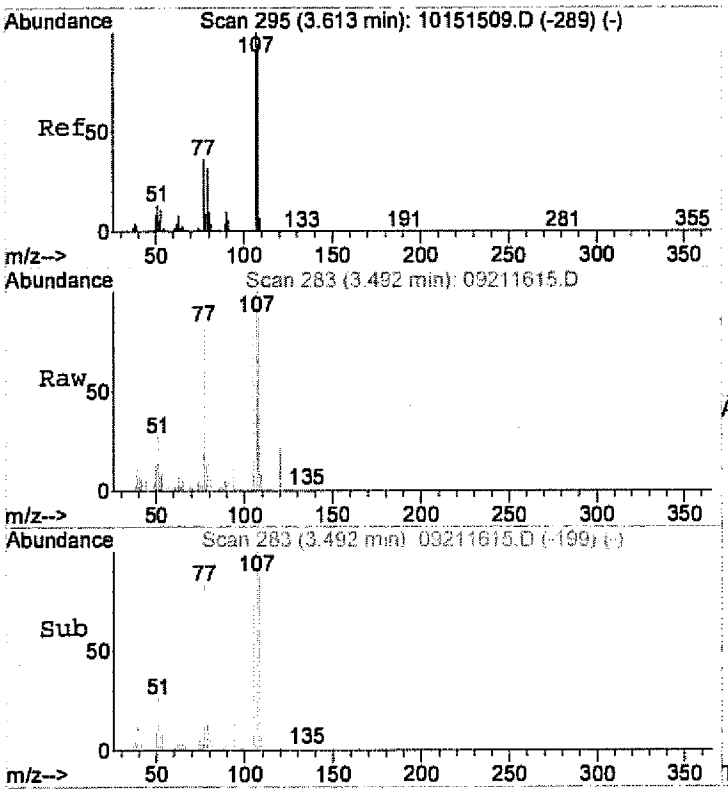


#17
2,2'-Oxybis(1-chloropropane)
Concen: Below Cal
RT: 3.43 min Scan# 273
Delta R.T. 0.02 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion: 45 Resp: 1468

Ion	Ratio	Lower	Upper
45	100		
77	128.5	0.0	47.7#
121	0.0	0.0	59.0

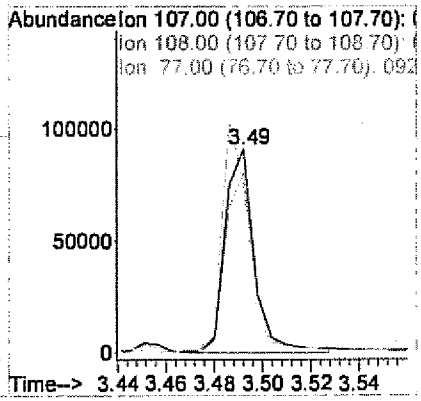


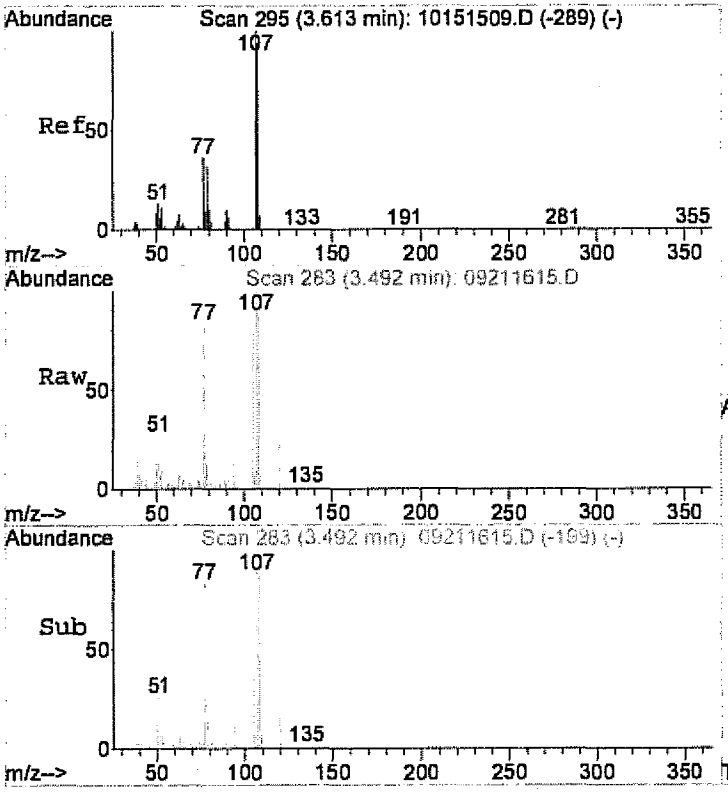


#18
3-Methylphenol
Concen: 6.41 ug/ml m
RT: 3.49 min Scan# 283
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:107 Resp: 76747

Ion	Ratio	Lower	Upper
107	100		
108	90.6	61.2	121.2
77	103.4	10.8	70.8#

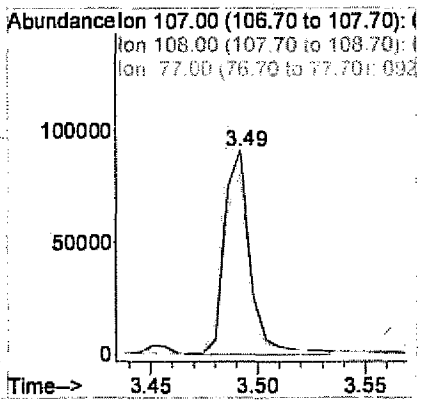


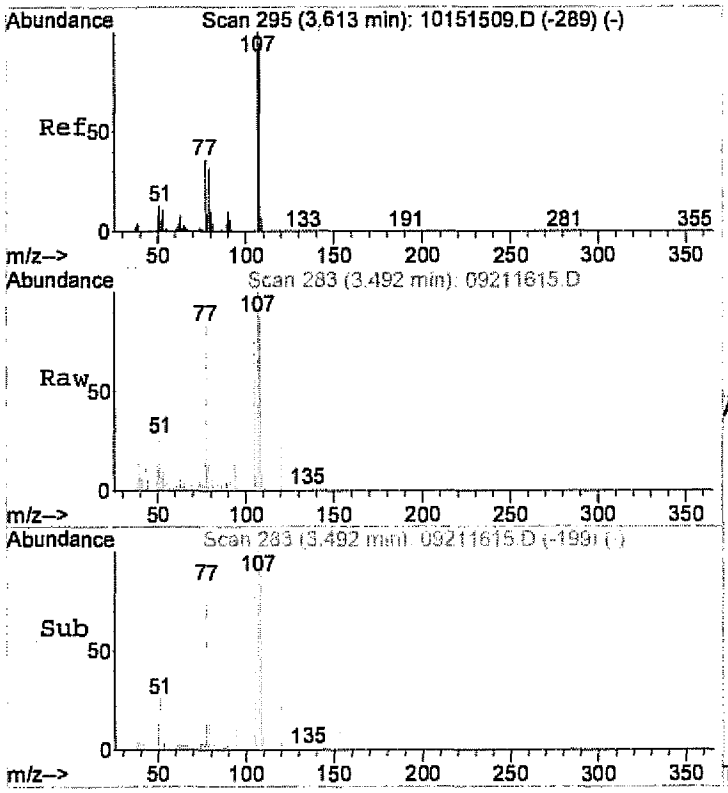


#19
4-Methylphenol
Concen: 6.45 ug/ml m
RT: 3.49 min Scan# 283
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:107 Resp: 77323

Ion	Ratio	Lower	Upper
107	100		
108	88.1	61.2	121.2
77	102.2	10.8	70.8#

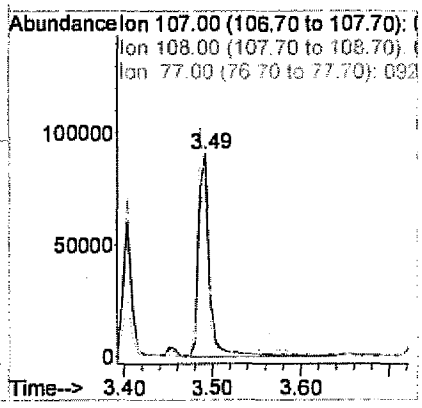


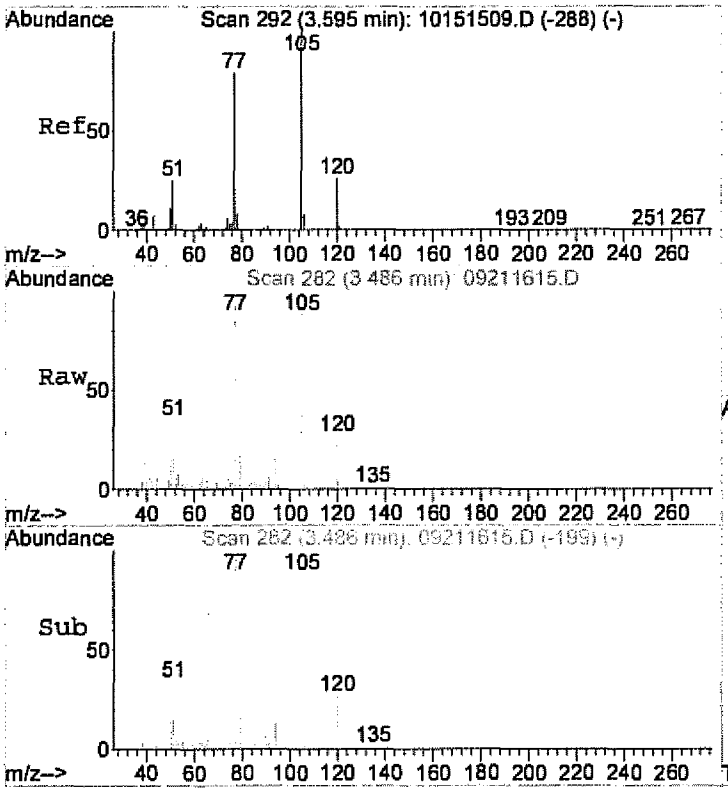


#20
3&4-Methylphenol
Concen: 6.76 ug/ml
RT: 3.49 min Scan# 283
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:107 Resp: 81230

Ion	Ratio	Lower	Upper
107	100		
108	93.0	63.8	118.6
77	95.7	28.6	53.0#

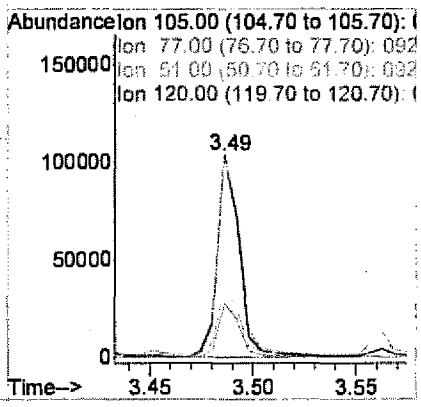


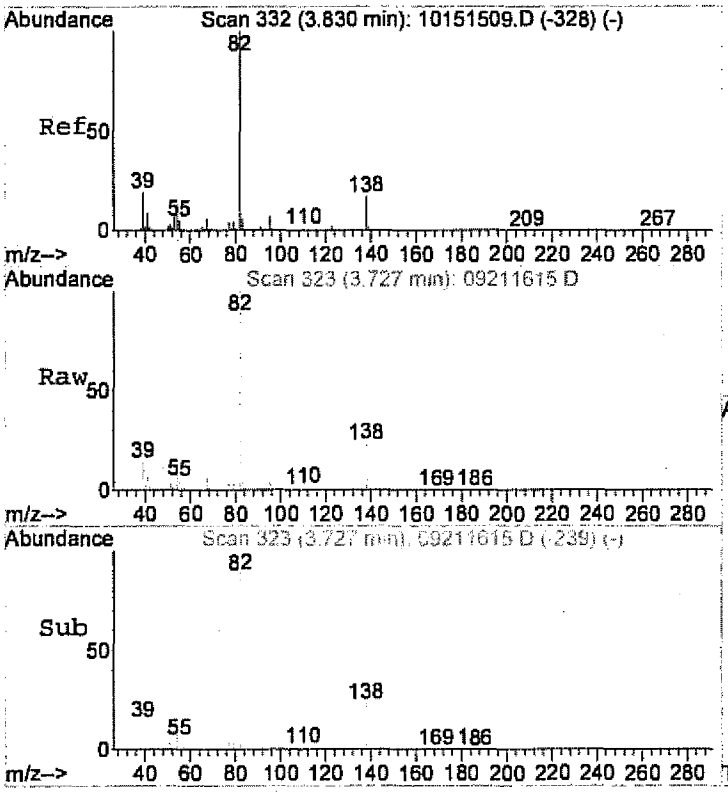


#21
Acetophenone
Concen: 4.27 ug/ml
RT: 3.49 min Scan# 282
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:105 Resp: 77021

Ion	Ratio	Lower	Upper
105	100		
77	100.9	61.2	113.8
51	34.1	18.3	34.1#
120	26.7	17.3	32.1

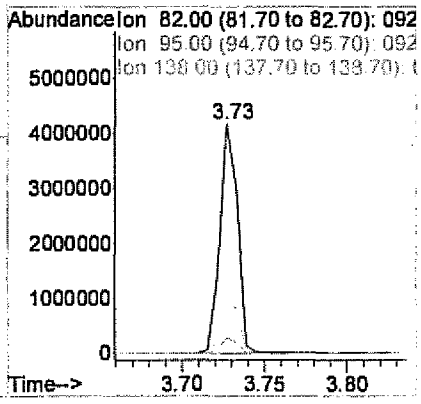


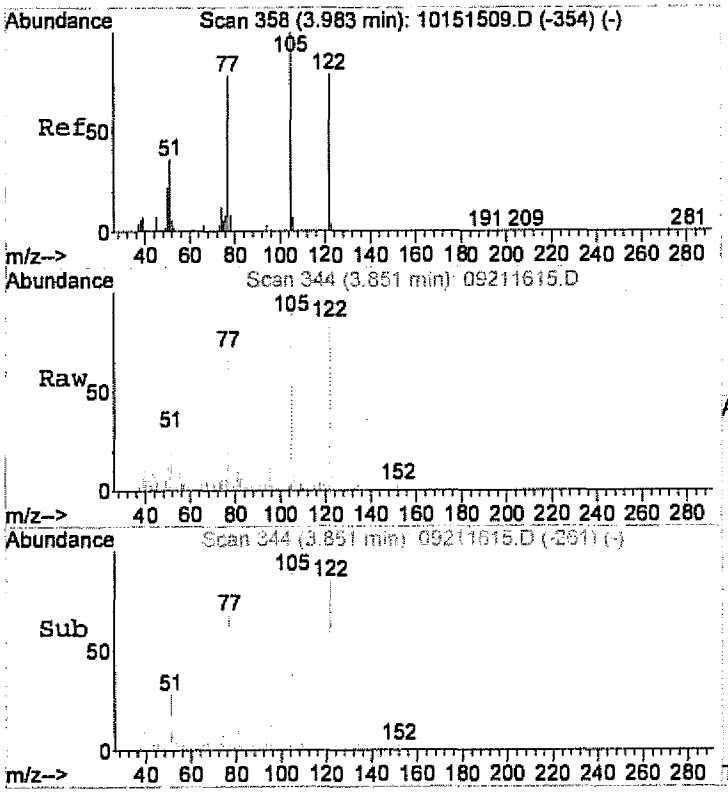


#27
Isophorone
Concen: 130.09 ug/ml
RT: 3.73 min Scan# 323
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion: 82 Resp: 3109288

Ion	Ratio	Lower	Upper
82	100		
95	6.8	0.0	37.6
138	23.4	0.0	47.8

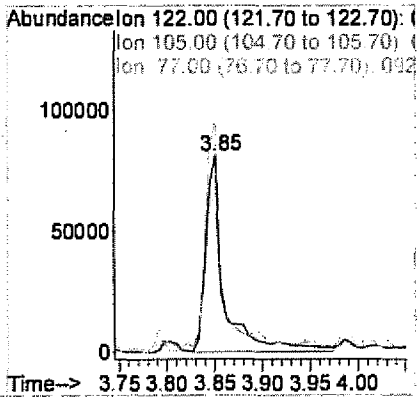


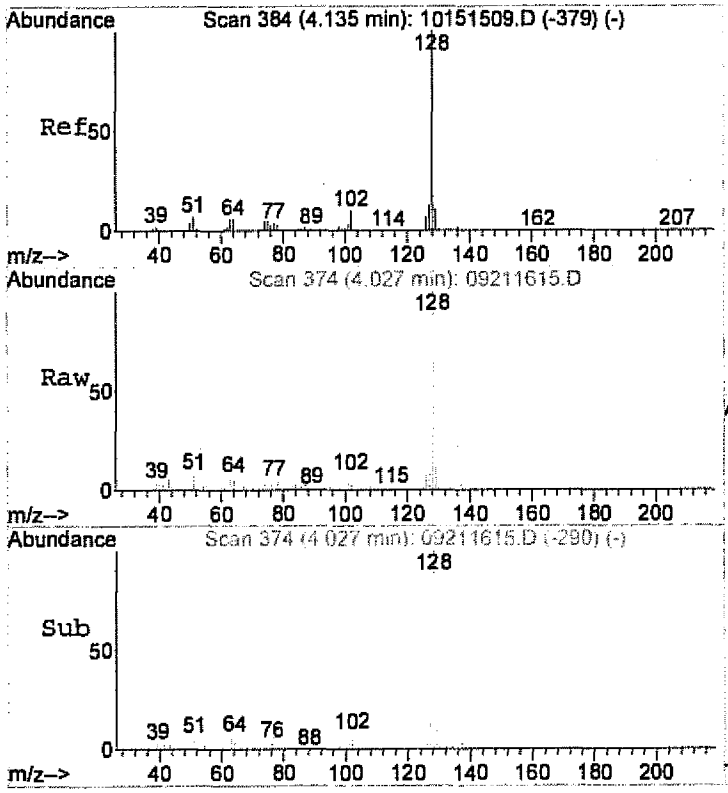


#31
Benzoic acid
Concen: 14.12 ug/ml
RT: 3.85 min Scan# 344
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:122 Resp: 109375

Ion	Ratio	Lower	Upper
122	100		
105	117.3	117.5	177.5#
77	79.3	75.7	135.7

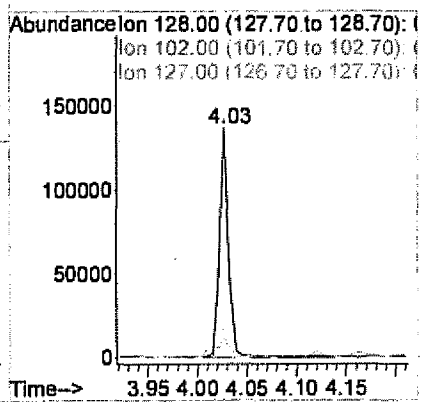


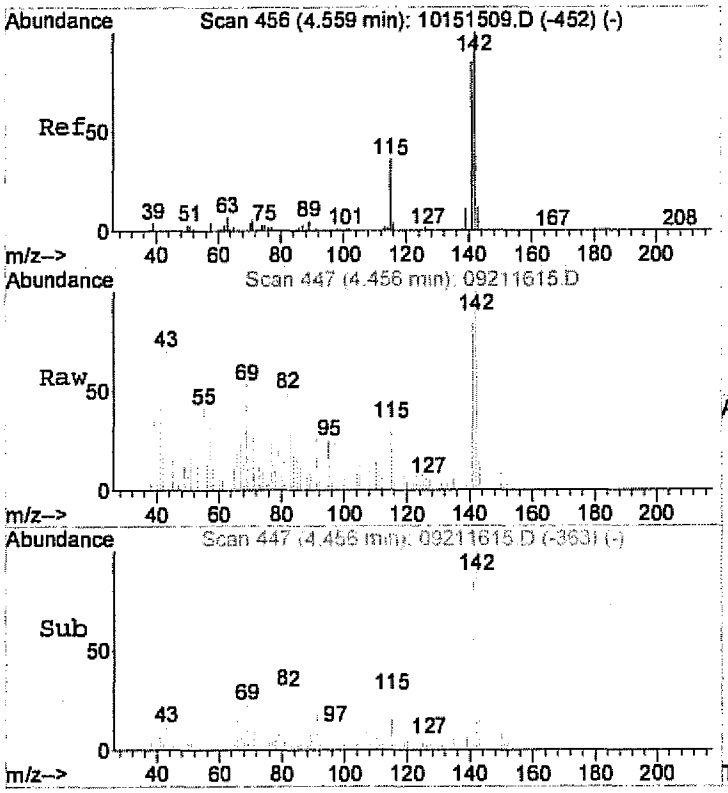


#34
Naphthalene
Concen: 2.22 ug/ml
RT: 4.03 min Scan# 374
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:128 Resp: 87797

Ion	Ratio	Lower	Upper
128	100		
102	13.1	0.0	41.4
127	14.8	0.0	30.0

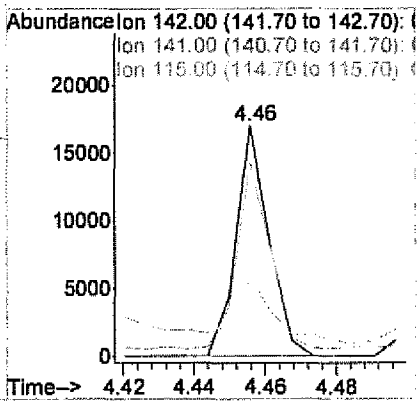


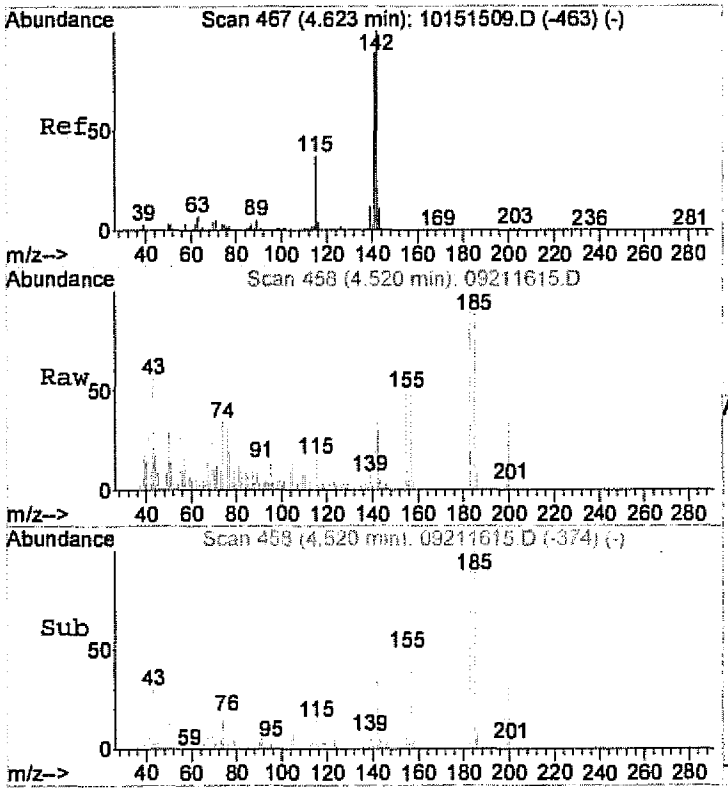


#40
2-Methylnaphthalene
Concen: 0.45 ug/ml
RT: 4.46 min Scan# 447
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:142 Resp: 10700

Ion	Ratio	Lower	Upper
142	100		
141	83.8	60.4	112.2
115	32.7	27.1	50.3

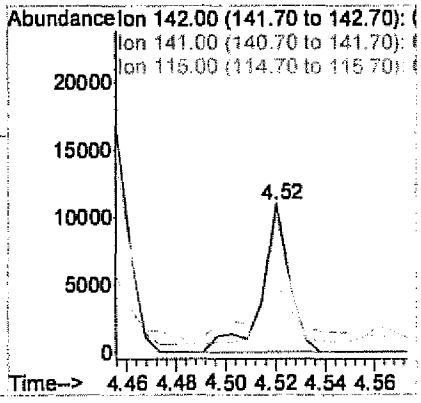


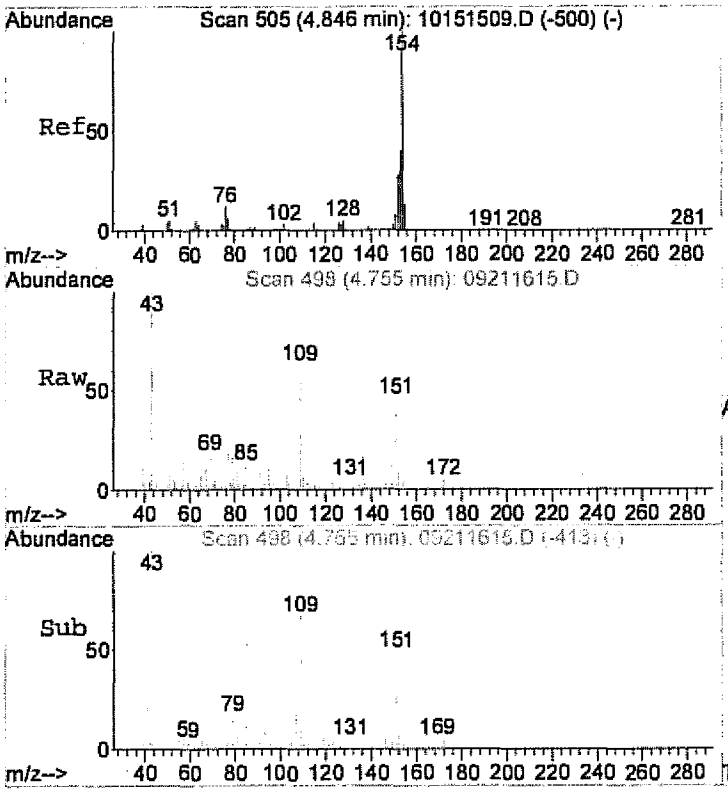


#41
1-Methylnaphthalene
Concen: 0.34 ug/ml
RT: 4.52 min Scan# 458
Delta R.T. -0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:142 Resp: 8510

Ion	Ratio	Lower	Upper
142	100		
141	76.1	58.7	118.7
115	61.4	11.4	71.4

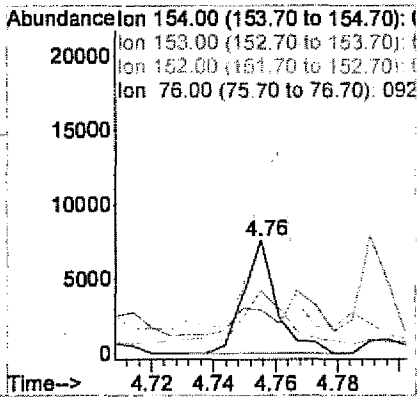


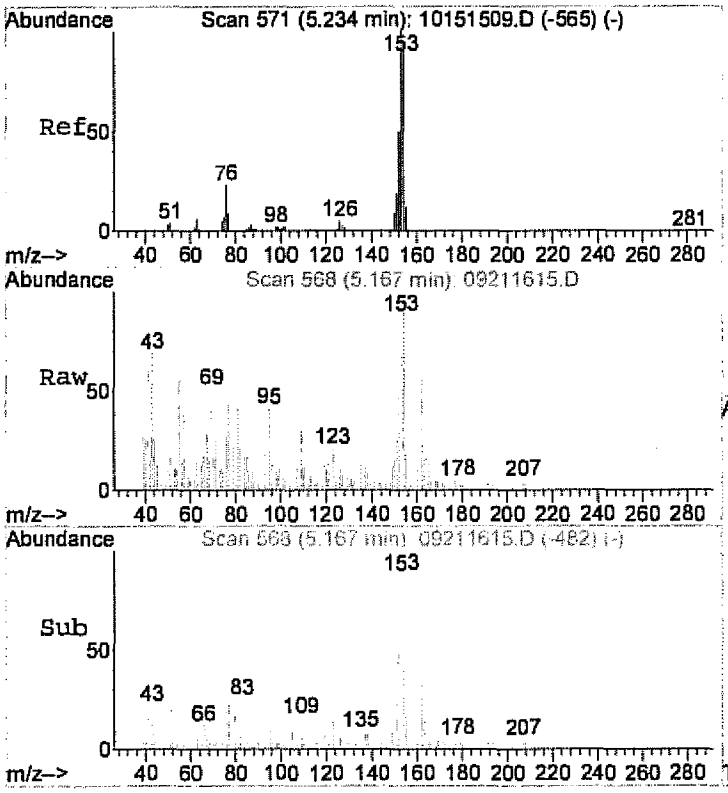


#42
1,1`-Biphenyl
Concen: Below Cal
RT: 4.76 min Scan# 498
Delta R.T. 0.00 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:154 Resp: 5676

Ion	Ratio	Lower	Upper
154	100		
153	59.2	28.4	52.8#
152	258.5	19.3	35.9#
76	100.6	12.2	22.7#

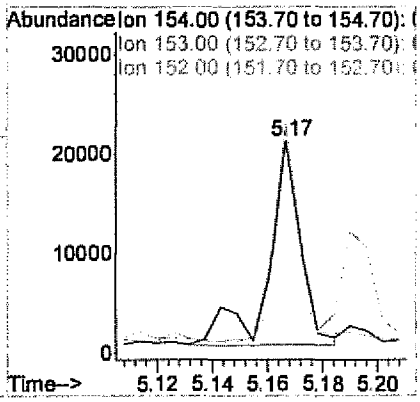


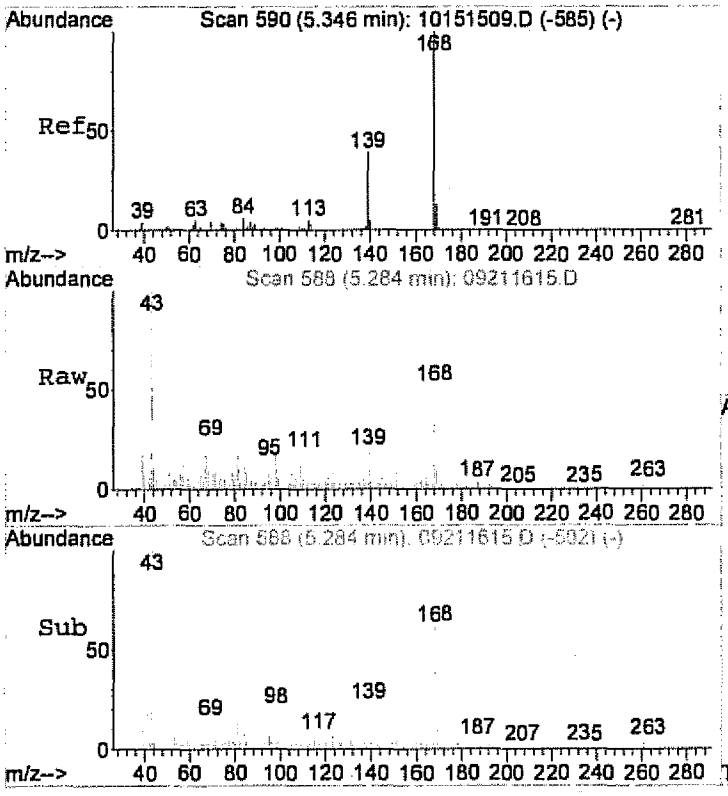


#58
Acenaphthene
Concen: 0.83 ug/ml
RT: 5.17 min Scan# 568
Delta R.T. 0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:154 Resp: 16455

Ion	Ratio	Lower	Upper
154	100		
153	86.7	67.4	127.4
152	54.7	17.2	77.2

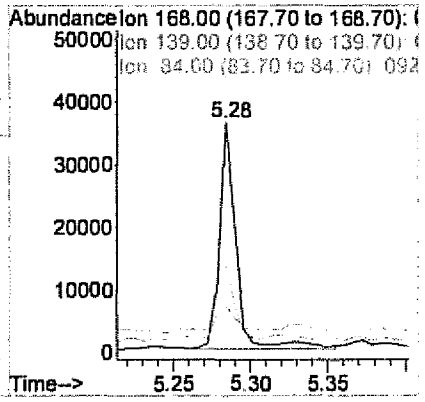


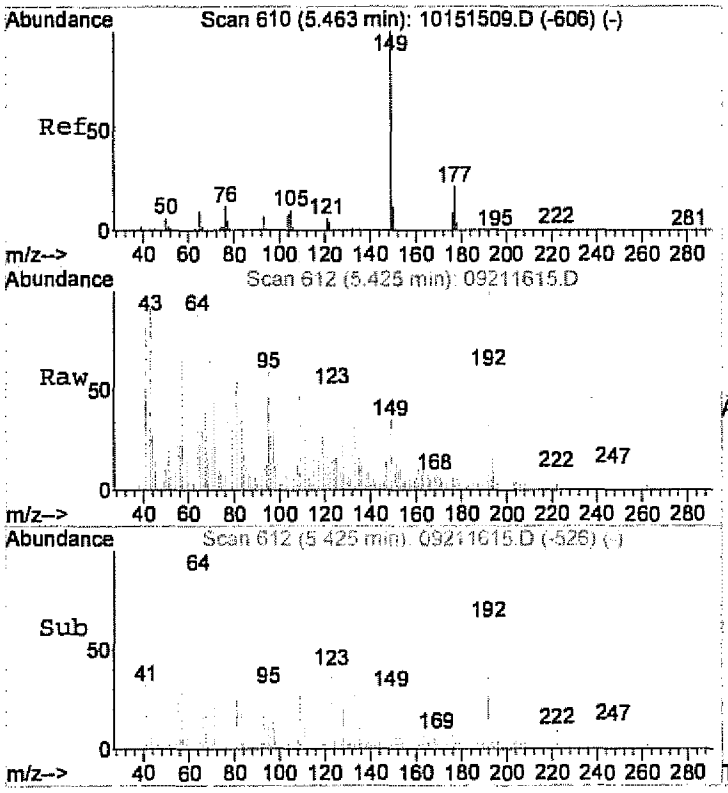


#60
Dibenzofuran
Concen: 0.65 ug/ml
RT: 5.28 min Scan# 588
Delta R.T. 0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:168 Resp: 27489

Ion	Ratio	Lower	Upper
168	100		
139	32.4	8.2	68.2
84	16.6	0.0	36.7

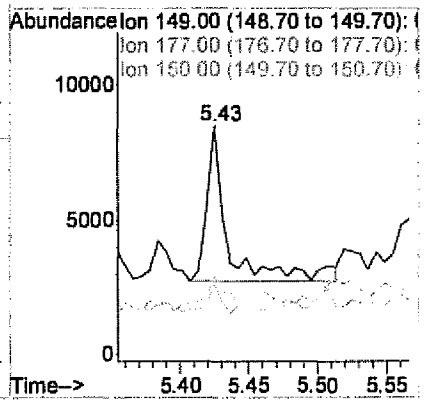


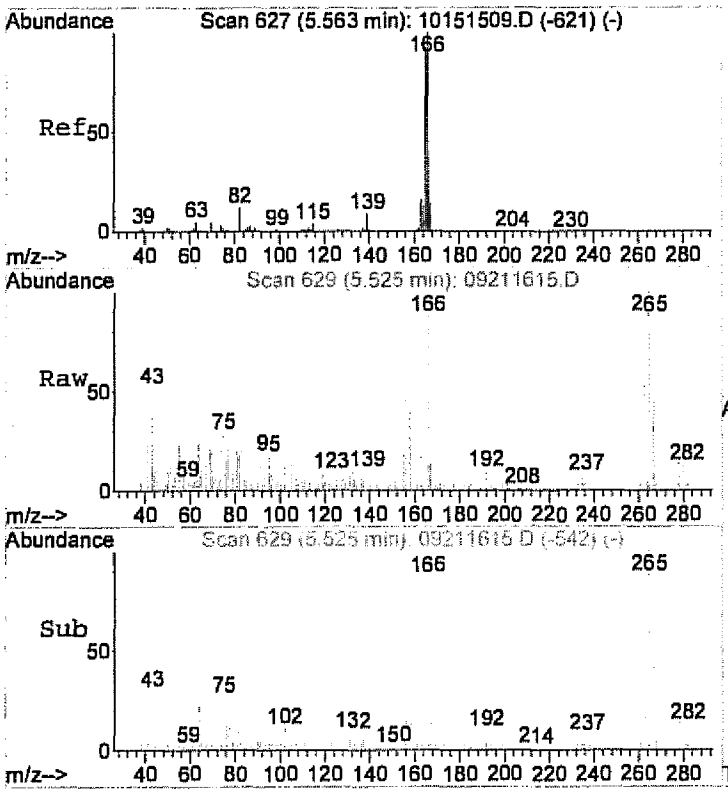


#63
Diethylphthalate
Concen: 0.21 ug/ml
RT: 5.43 min Scan# 612
Delta R.T. 0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:149 Resp: 6165

Ion	Ratio	Lower	Upper
149	100		
177	10.1	0.0	51.7
150	20.8	0.0	42.1

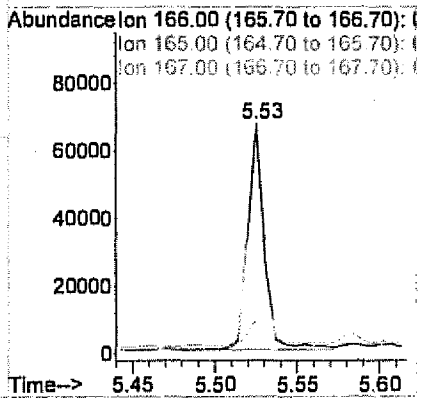


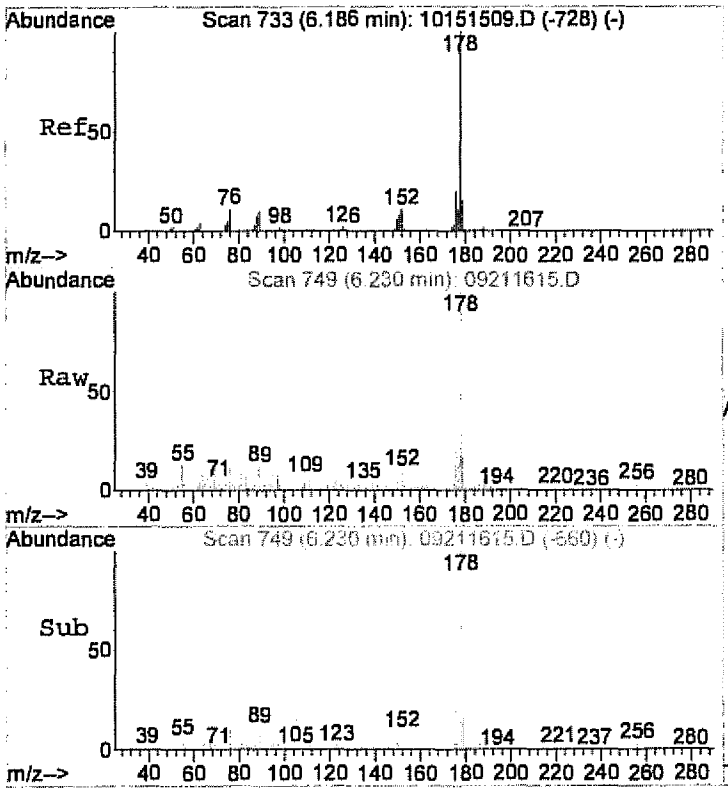


#64
Fluorene
Concen: 1.43 ug/ml
RT: 5.53 min Scan# 629
Delta R.T. 0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:166 Resp: 48252

Ion	Ratio	Lower	Upper
166	100		
165	89.2	64.4	124.4
167	14.7	0.0	43.7

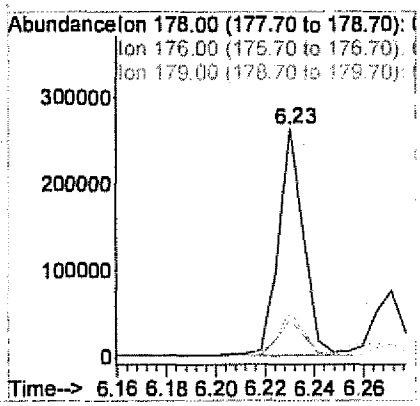


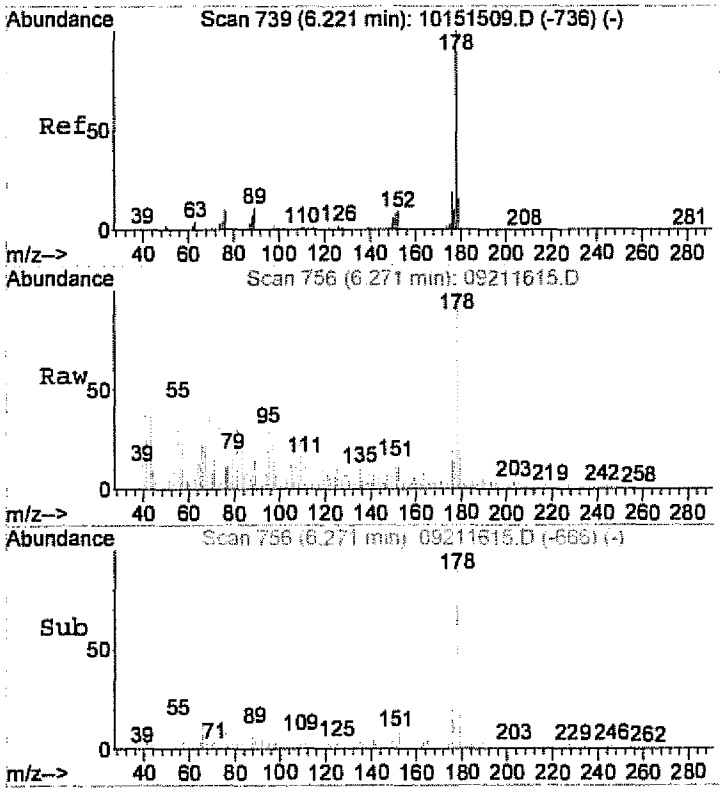


#76
Phenanthrene
Concen: 3.51 ug/ml
RT: 6.23 min Scan# 749
Delta R.T. 0.02 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:178 Resp: 182956

Ion	Ratio	Lower	Upper
178	100		
176	20.0	0.0	49.4
179	17.9	0.0	45.7

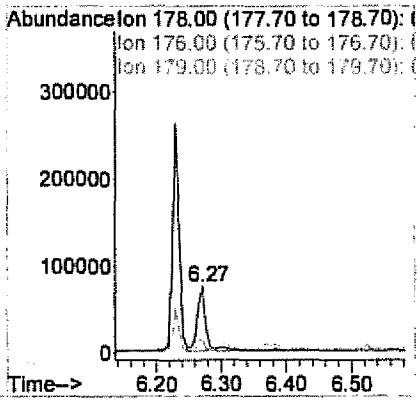


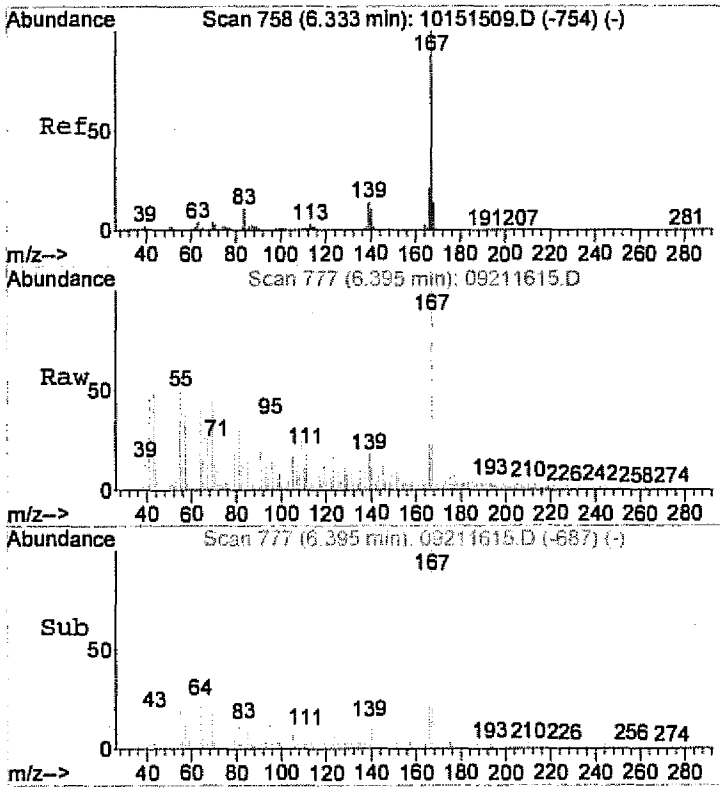


#77
Anthracene
Concen: 1.48 ug/ml
RT: 6.27 min Scan# 756
Delta R.T. 0.03 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:178 Resp: 70374

Ion	Ratio	Lower	Upper
178	100		
176	22.6	0.0	48.6
179	22.9	0.0	46.1

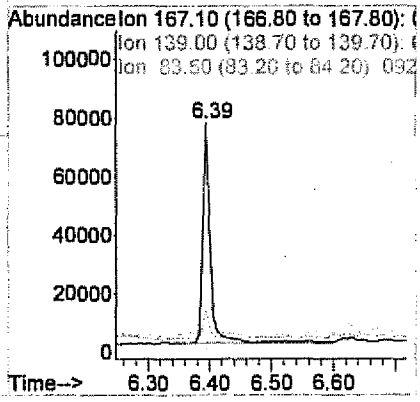


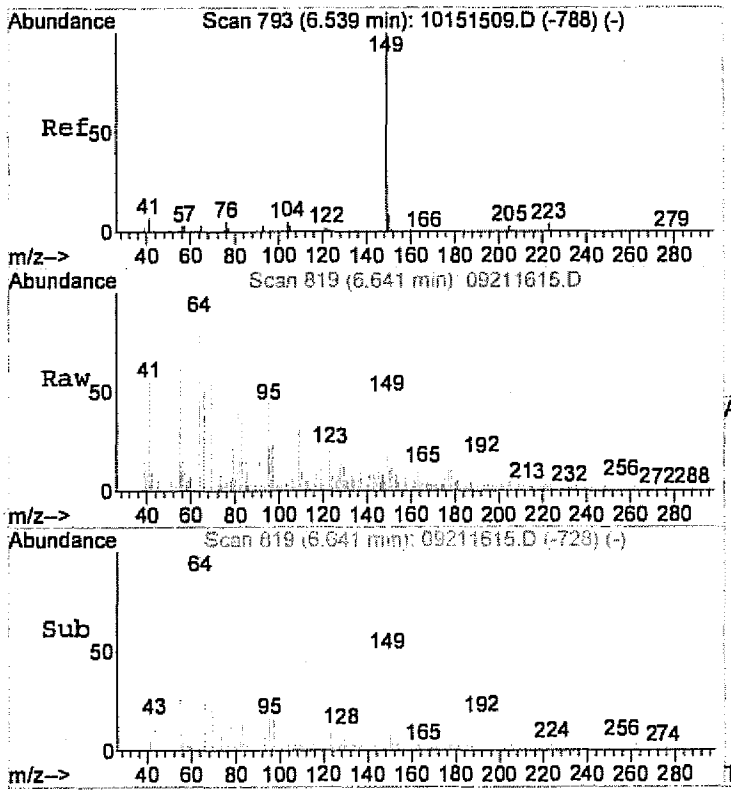


#78
Carbazole
Concen: 1.49 ug/ml
RT: 6.39 min Scan# 777
Delta R.T. 0.03 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:167 Resp: 66812

Ion	Ratio	Lower	Upper
167	100		
139	13.5	0.0	43.1
84	0.0	0.0	39.1

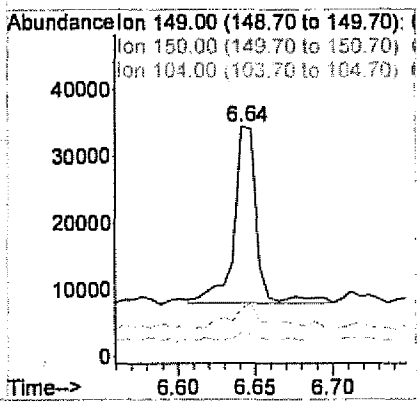


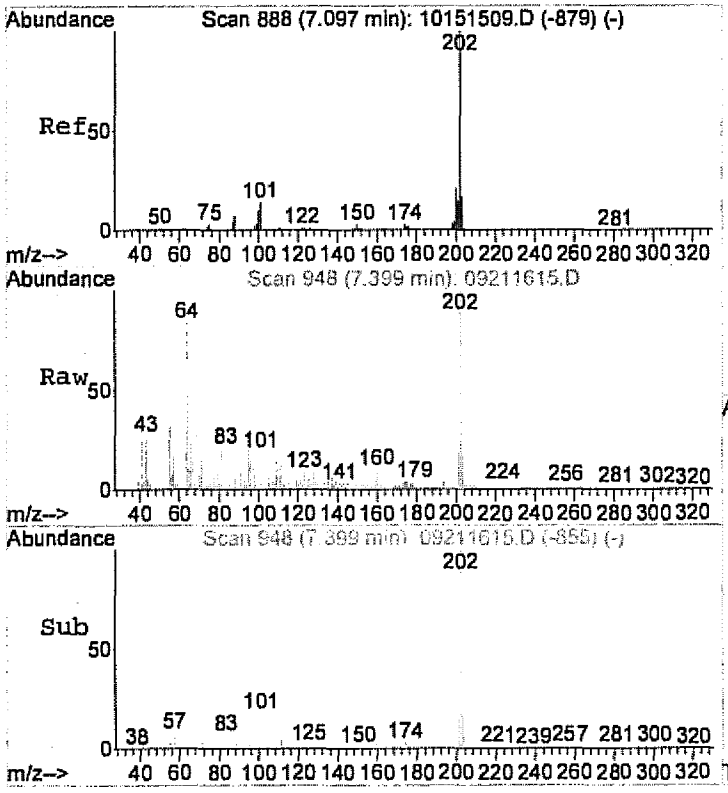


#79
Di-n-butylphthalate
Concen: 0.66 ug/ml
RT: 6.64 min Scan# 819
Delta R.T. 0.04 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:149 Resp: 26986

Ion	Ratio	Lower	Upper
149	100		
150	33.4	0.0	39.2
104	5.1	0.0	36.0

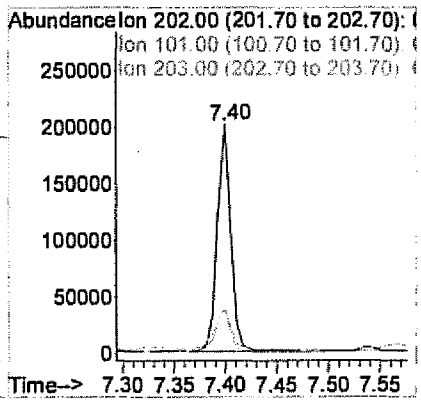


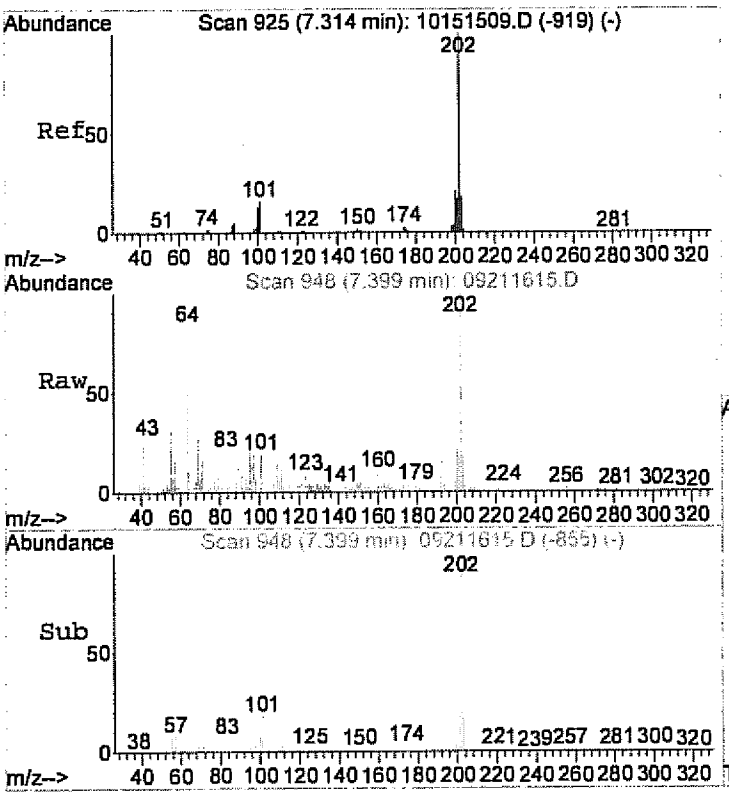


#80
Fluoranthene
Concen: 2.96 ug/ml
RT: 7.40 min Scan# 948
Delta R.T. 0.05 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:202 Resp: 184092

Ion	Ratio	Lower	Upper
202	100		
101	20.9	0.0	41.5
203	22.1	0.0	47.5

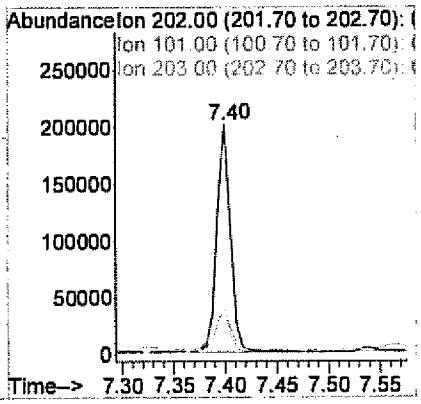


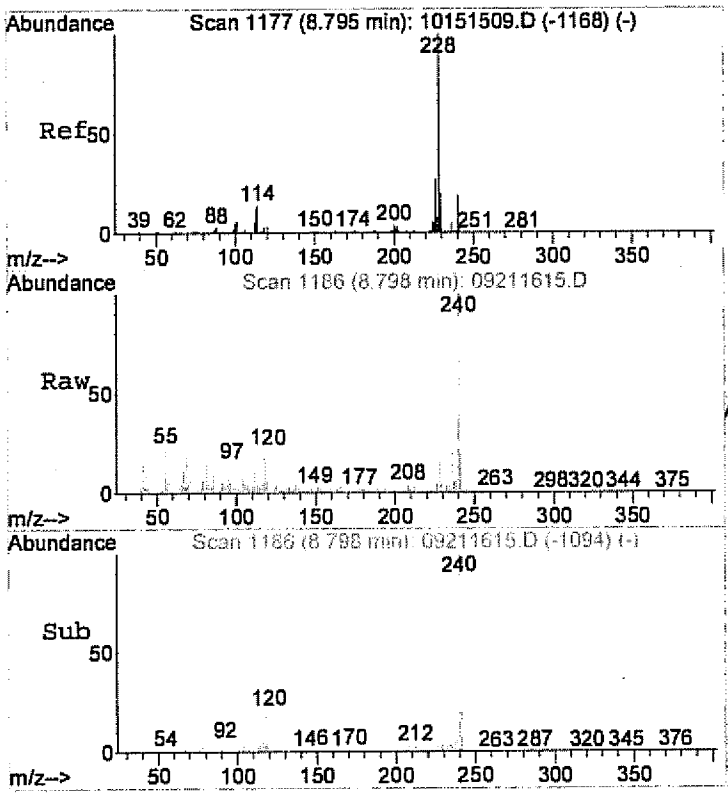


#84
Pyrene
Concen: 4.68 ug/ml
RT: 7.40 min Scan# 948
Delta R.T. 0.05 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:202 Resp: 184130

Ion	Ratio	Lower	Upper
202	100		
101	20.8	0.0	43.6
203	22.1	0.0	48.3

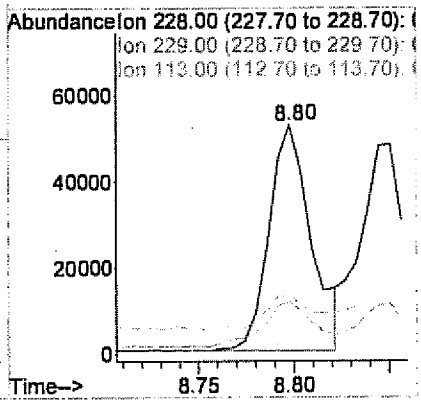


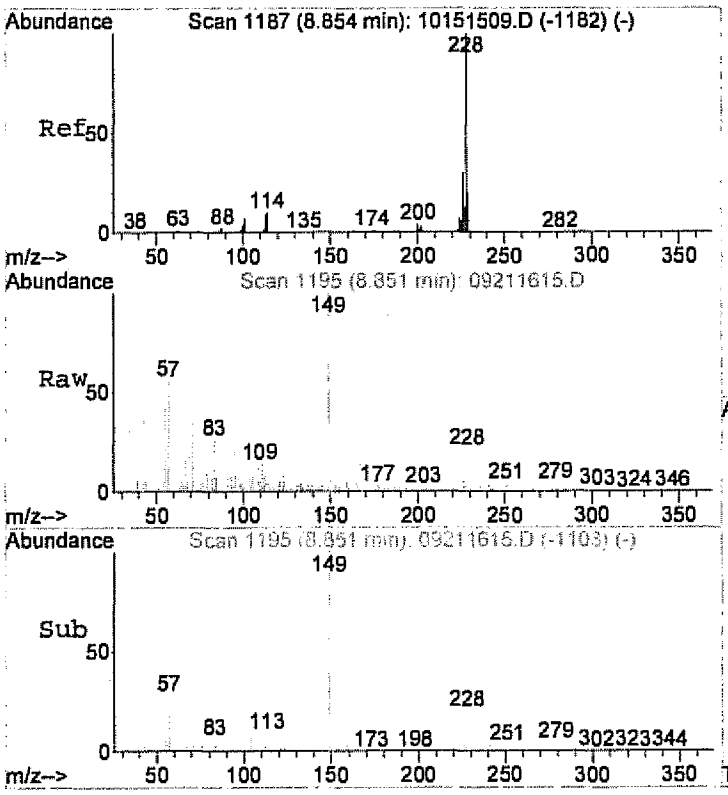


#87
Benzo[a]anthracene
Concen: 2.16 ug/ml
RT: 8.80 min Scan# 1186
Delta R.T. 0.04 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:228 Resp: 80167

Ion	Ratio	Lower	Upper
228	100		
229	24.5	0.0	49.6
113	19.4	0.0	40.4

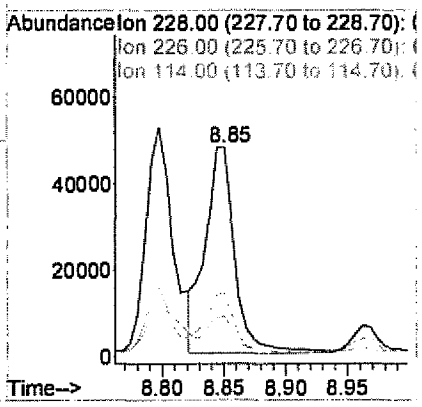


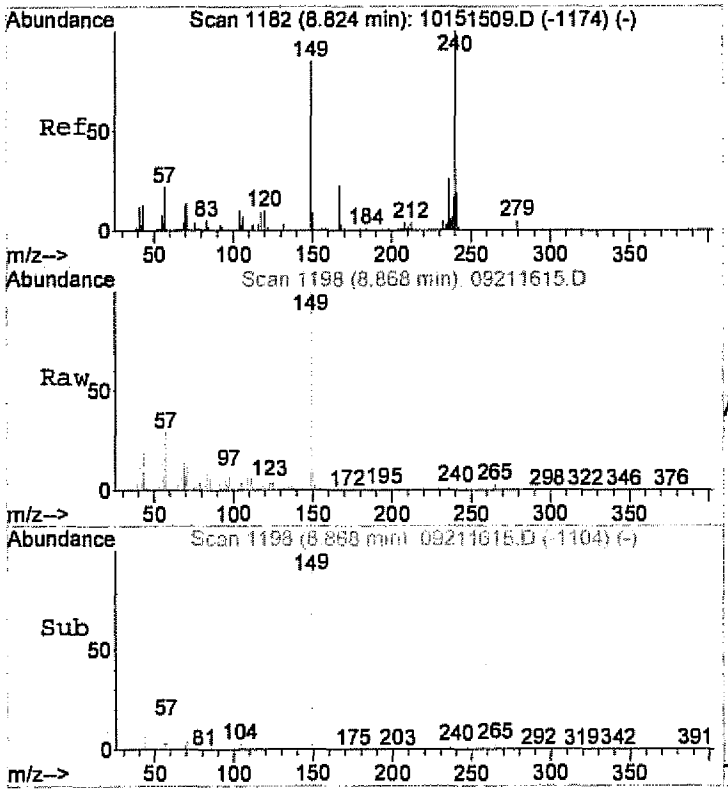


#89
Chrysene
Concen: 2.16 ug/ml
RT: 8.85 min Scan# 1195
Delta R.T. 0.04 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:228 Resp: 80290

Ion	Ratio	Lower	Upper
228	100		
226	29.9	0.0	58.9
114	16.3	0.0	39.8

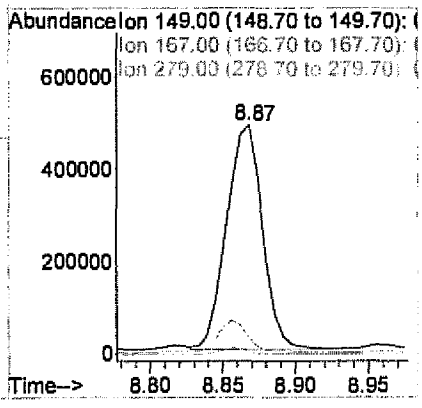


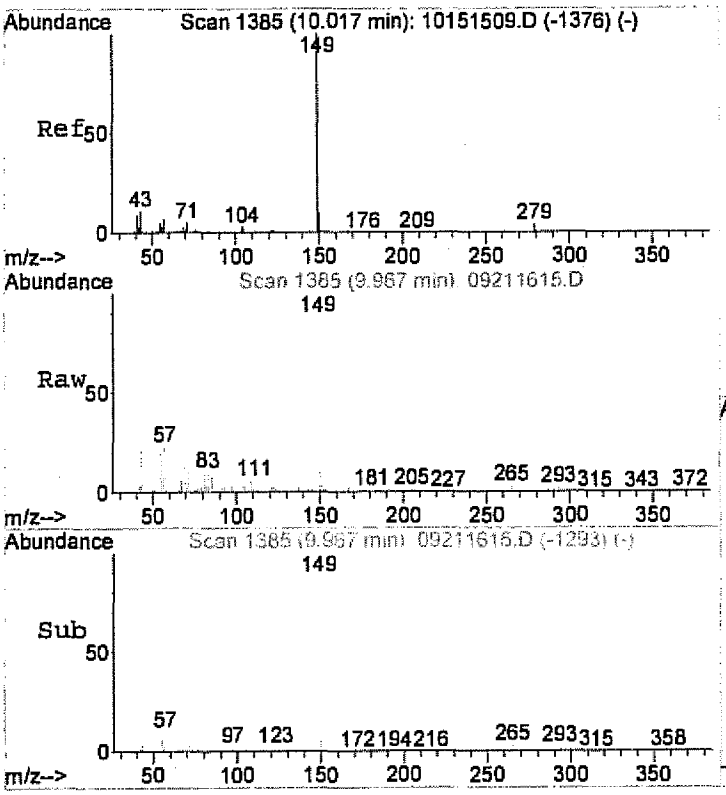


#90
Bis(2-ethylhexyl)phthalate
Concen: 33.60 ug/ml
RT: 8.87 min Scan# 1198
Delta R.T. 0.05 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:149 Resp: 834683

Ion	Ratio	Lower	Upper
149	100		
167	11.5	0.0	31.5
279	2.1	0.0	35.3

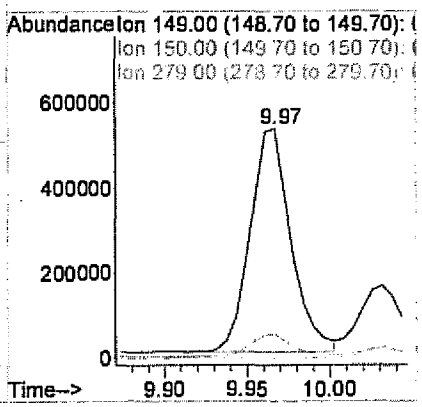


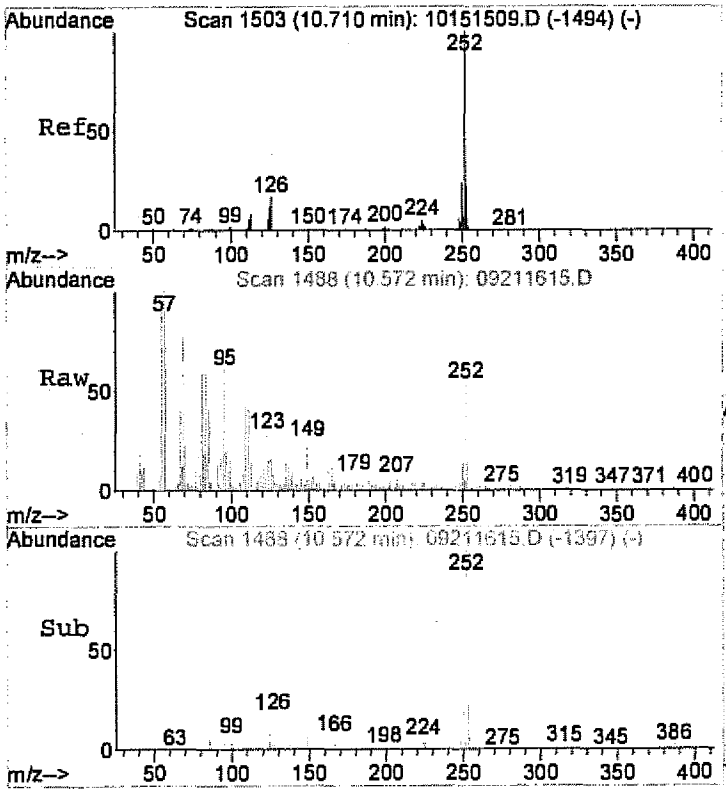


#92
Di-n-octylphthalate
Concen: 22.28 ug/ml
RT: 9.97 min Scan# 1385
Delta R.T. 0.04 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:149 Resp: 899554

Ion	Ratio	Lower	Upper
149	100		
150	9.8	0.0	39.8
279	0.1	0.0	35.3

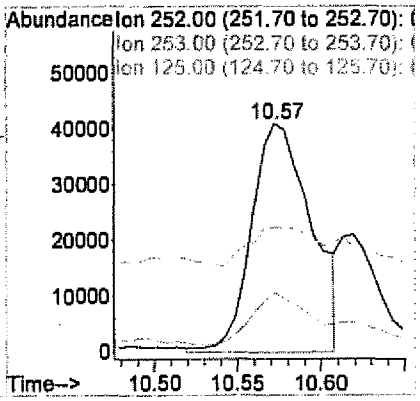


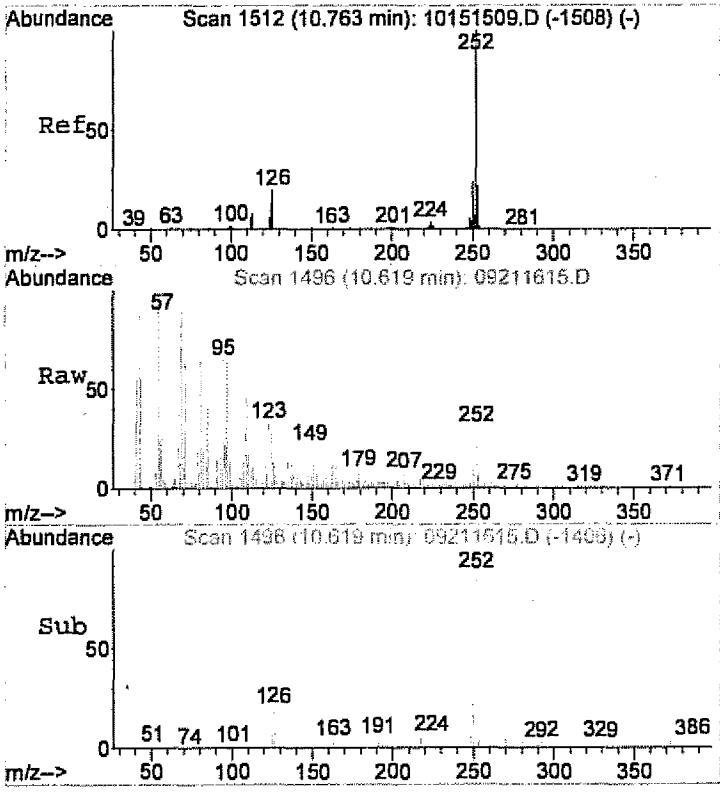


#93
Benzo(b)fluoranthene
Concen: 3.34 ug/ml m
RT: 10.57 min Scan# 1488
Delta R.T. 0.04 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:252 Resp: 102473

Ion	Ratio	Lower	Upper
252	100		
253	29.8	0.0	52.3
125	26.9	0.0	40.2

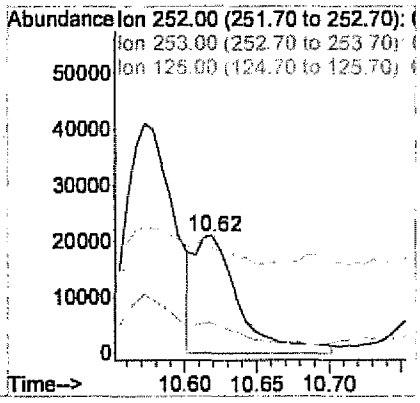


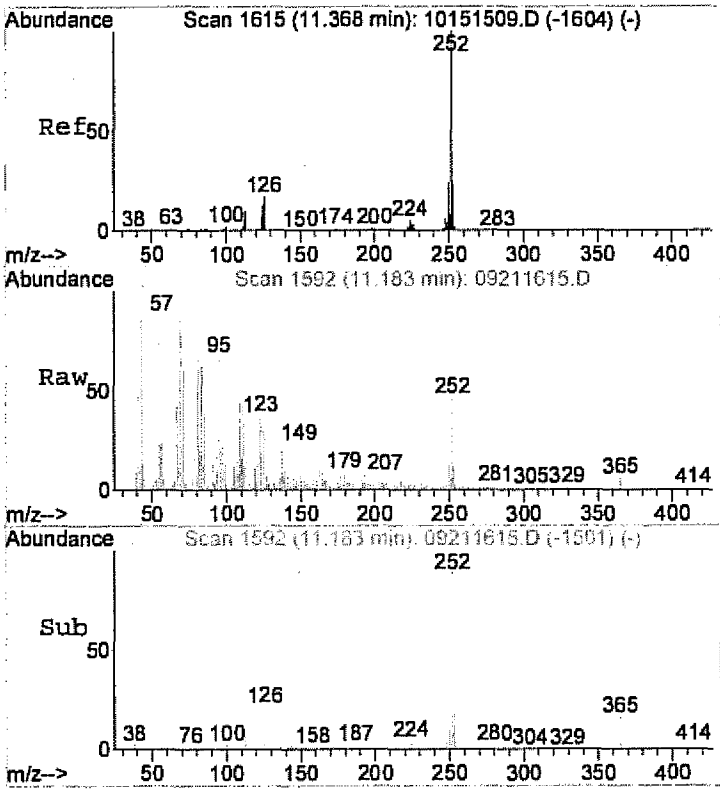


#94
Benzo(k)fluoranthene
Concen: 1.51 ug/ml m
RT: 10.62 min Scan# 1496
Delta R.T. 0.03 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:252 Resp: 45460

Ion	Ratio	Lower	Upper
252	100		
253	67.1	0.0	51.7#
125	60.7	0.0	40.3#

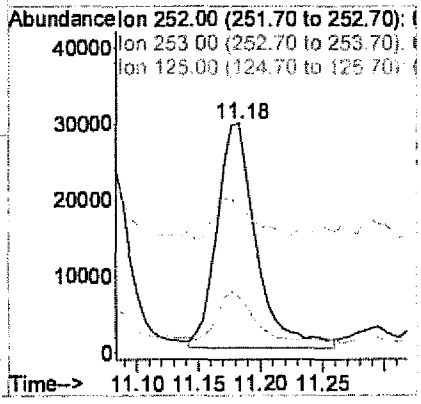


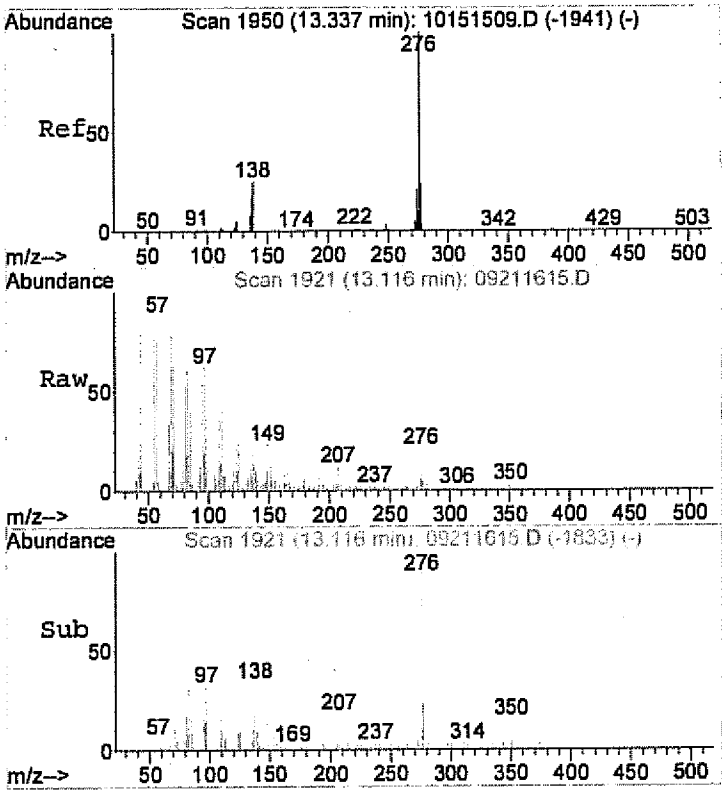


#95
Benzo(a)pyrene
Concen: 2.61 ug/ml
RT: 11.18 min Scan# 1592
Delta R.T. 0.04 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:252 Resp: 64461

Ion	Ratio	Lower	Upper
252	100		
253	25.1	0.0	51.7
125	19.6	0.0	41.3

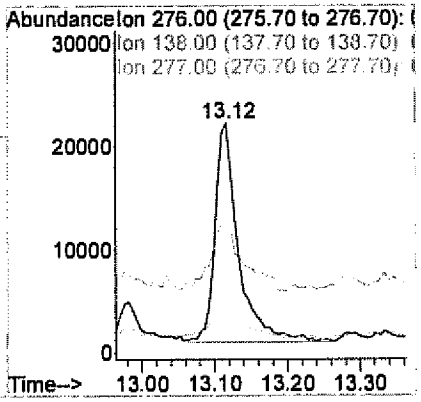


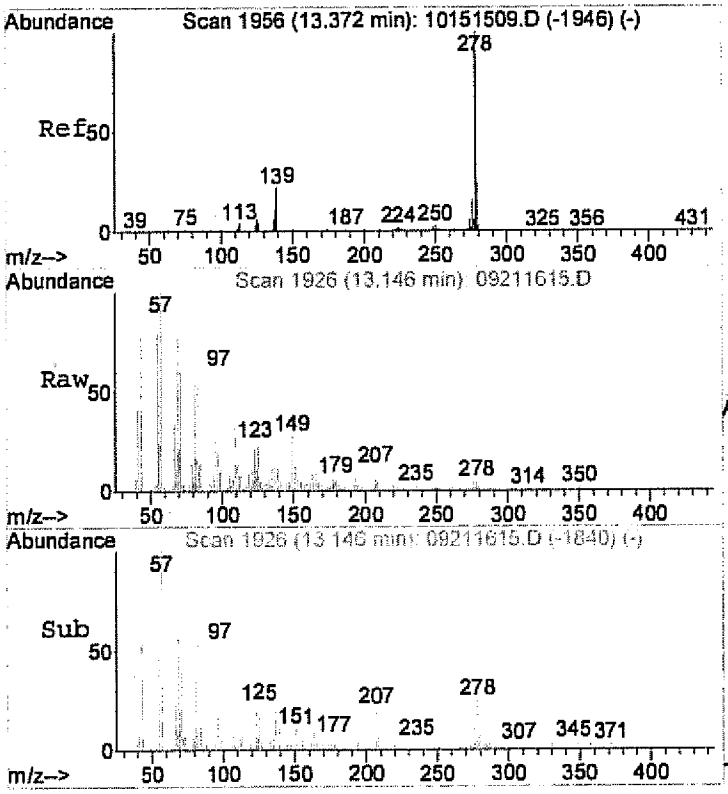


#96
Indeno(1,2,3-cd)pyrene
Concen: 2.33 ug/ml
RT: 13.12 min Scan# 1921
Delta R.T. 0.02 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:276 Resp: 47121

Ion	Ratio	Lower	Upper
276	100		
138	55.7	0.0	50.9#
277	31.1	0.0	53.9

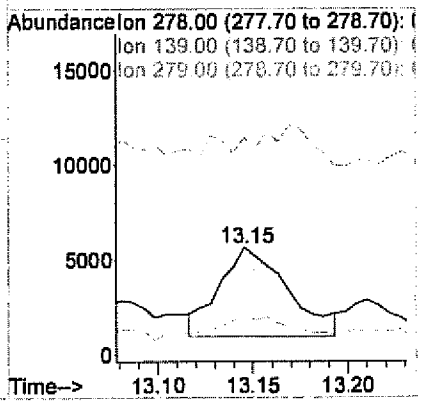


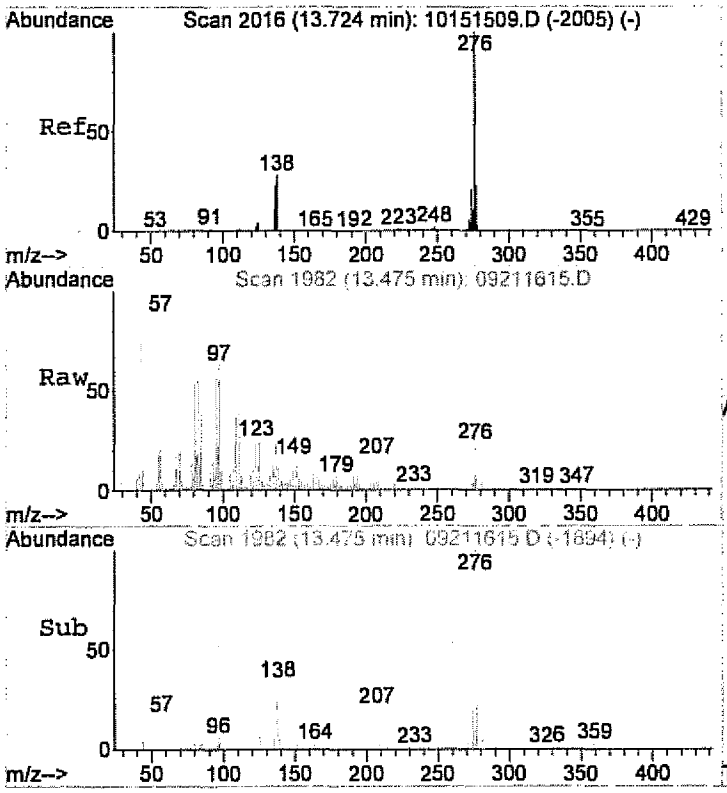


#97
Dibenz(a,h)anthracene
Concen: 0.47 ug/ml
RT: 13.15 min Scan# 1926
Delta R.T. 0.01 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:278 Resp: 11682

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	47.0
279	52.3	0.0	53.7

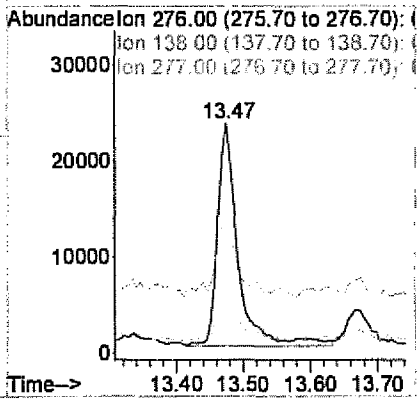




#98
Benzo(g,h,i)perylene
Concen: 1.57 ug/ml
RT: 13.47 min Scan# 1982
Delta R.T. 0.02 min
Lab File: 09211615.D
Acq: 21 Sep 2016 2:19 pm

Tgt Ion:276 Resp: 49709

Ion	Ratio	Lower	Upper
276	100		
138	38.7	0.0	53.1
277	25.5	0.0	53.6



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211640.D Vial: 38
Acq On : 22 Sep 2016 12:02 am Operator: JF
Sample : 16091057-01B DF5 Inst : SVMS5
Misc : 5X 16BAW-91630 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 22 08:34:49 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	484398	40.00	ug/ml	0.00
24) Naphthalene-d8	4.01	136	1343353	40.00	ug/ml	0.00
43) Acenaphthene-d10	5.13	164	954629	40.00	ug/ml	-0.01
68) Phenanthrene-d10	6.17	188	1918511	40.00	ug/ml	-0.02
81) Chrysene-d12	8.74	240	1655017	40.00	ug/ml	-0.04
91) Perylene-d12	11.24	264	1434145	40.00	ug/ml	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	2.60	112	29367	3.48	ug/ml	-0.01
Spiked Amount 50.000	Range 7 - 75		Recovery = 6.96%#			
7) Phenol-d6	3.06	99	25628	1.87	ug/ml	0.00
Spiked Amount 50.000	Range 3 - 67		Recovery = 3.74%			
25) Nitrobenzene-d5	3.58	82	72249	6.00	ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 12.00%			
48) 2-Fluorobiphenyl	4.68	172	204426	6.90	ug/ml	-0.01
Spiked Amount 50.000	Range 20 - 122		Recovery = 13.80%#			
72) 2,4,6-Tribromophenol	5.67	330	38801	7.10	ug/ml	-0.01
Spiked Amount 50.000	Range 24 - 162		Recovery = 14.20%#			
85) 4-Terphenyl-d14	7.46	244	291158	9.36	ug/ml	-0.03
Spiked Amount 50.000	Range 22 - 172		Recovery = 18.72%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	0.00	88	0	N.D. d		
3) Pyridine	0.00	79	0	N.D.		
4) N-Nitrosodimethylamine	2.00	42	2227	Below Cal	#	1
6) Benzaldehyde	0.00	77	0	N.D. d		
8) Phenol	3.07	94	2797	Below Cal		84
9) Aniline	3.11	93	940	Below Cal	#	41
10) Bis(2-chloroethyl)ether	3.11	93	940	Below Cal	#	14
11) 2-Chlorophenol	0.00	128	0	N.D.		
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
14) Benzyl alcohol	3.34	108	2925	0.34	ug/ml	93
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) 2-Methylphenol	3.40	107	7810	0.92	ug/ml	94
17) 2,2'-Oxybis(1-chloropropan	3.42	45	182	Below Cal	#	1
18) 3-Methylphenol	3.49	107	14254m	1.29	ug/ml	
19) 4-Methylphenol	3.49	107	14068m	1.27	ug/ml	
20) 3&4-Methylphenol	3.49	107	14254	1.28	ug/ml#	61
21) Acetophenone	3.49	105	14999	0.18	ug/ml#	81
22) N-Nitrosodi-n-propylamine	3.48	70	195	Below Cal	#	1
23) Hexachloroethane	3.56	117	261	Below Cal	#	8
26) Nitrobenzene	0.00	123	0	N.D. d		
27) Isophorone	3.73	82	734828	33.18	ug/ml	95
28) 2-Nitrophenol	0.00	139	0	N.D. d		
29) 2,4-Dimethylphenol	0.00	107	0	N.D. d		
30) Bis(2-chloroethoxy)methane	0.00	93	0	N.D. d		
31) Benzoic acid	3.84	122	14667	2.94	ug/ml	89
32) 2,4-Dichlorophenol	0.00	162	0	N.D. d		
33) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
34) Naphthalene	4.03	128	16421	0.33	ug/ml	43
35) 4-Chloroaniline	0.00	127	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211640.D Vial: 38
Acq On : 22 Sep 2016 12:02 am Operator: JF
Sample : 16091057-01B DF5 Inst : SVMS5
Misc : 5X 16BAW-91630 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 22 08:34:49 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	0.00	162	0	N.D. d	
37) Hexachlorobutadiene	0.00	225	0	N.D.	
38) Caprolactam	0.00	55	0	N.D. d	
39) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
40) 2-Methylnaphthalene	0.00	142	0	N.D. d	
41) 1-Methylnaphthalene	0.00	142	0	N.D. d	
42) 1,1`-Biphenyl	4.74	154	766	Below Cal #	1
44) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
45) 1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
46) 2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
47) 2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
49) 1,3-Dinitrobenzene	0.00	168	0	N.D. d	
50) 2-Chloronaphthalene	4.74	162	949	Below Cal #	1
51) 2-Nitroaniline	0.00	65	0	N.D. d	
52) Dimethylphthalate	0.00	163	0	N.D. d	
53) 2,3,5,6-Tetrachlorophenol	0.00	232	0	N.D.	
54) 2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
55) Acenaphthylene	0.00	152	0	N.D. d	
56) 2,6-Dinitrotoluene	0.00	165	0	N.D. d	
57) 3-Nitroaniline	0.00	138	0	N.D. d	
58) Acenaphthene	5.15	154	2852	0.39 ug/ml	80
59) 2,4-Dinitrophenol	0.00	184	0	N.D.	
60) Dibenzofuran	5.27	168	4971	0.12 ug/ml#	49
61) 4-Nitrophenol	0.00	65	0	N.D. d	
62) 2,4-Dinitrotoluene	0.00	165	0	N.D. d	
63) Diethylphthalate	0.00	149	0	N.D. d	
64) Fluorene	5.50	166	9102	0.36 ug/ml	79
65) 4-Chlorophenyl phenyl ethe	0.00	204	0	N.D.	
66) 4-Nitroaniline	0.00	138	0	N.D. d	
67) Atrazine	0.00	200	0	N.D. d	
69) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
70) N-Nitrosodiphenylamine	0.00	169	0	N.D. d	
71) 1,2-Diphenylhydrazine	0.00	77	0	N.D. d	
73) 4-Bromophenyl phenyl ether	0.00	248	0	N.D. d	
74) Hexachlorobenzene	0.00	284	0	N.D.	
75) Pentachlorophenol	0.00	266	0	N.D.	
76) Phenanthrene	6.18	178	40581	0.83 ug/ml	92
77) Anthracene	6.22	178	17645	0.48 ug/ml	82
78) Carbazole	6.34	167	16596	0.54 ug/ml	89
79) Di-n-butylphthalate	6.58	149	6543	0.31 ug/ml	65
80) Fluoranthene	7.33	202	47898	0.98 ug/ml	78
82) 3,3-Dimethylbenzidine	0.00	212	0	N.D.	
83) Benzidine	0.00	184	0	N.D. d	
84) Pyrene	7.33	202	47898	1.14 ug/ml	81
86) Butylbenzylphthalate	0.00	149	0	N.D. d	
87) Benzo[a]anthracene	8.73	228	22506	0.81 ug/ml	65
88) 3,3'-Dichlorobenzidine	0.00	252	0	N.D. d	
89) Chrysene	8.77	228	20079	0.58 ug/ml	88
90) Bis(2-ethylhexyl)phthalate	8.79	149	215861	8.17 ug/ml	87
92) Di-n-octylphthalate	9.96	149	65064	3.42 ug/ml	80
93) Benzo(b)fluoranthene	10.51	252	21338	1.48 ug/ml	59

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211640.D Vial: 38
Acq On : 22 Sep 2016 12:02 am Operator: JF
Sample : 16091057-01B DF5 Inst : SVMS5
Misc : 5X 16BAW-91630 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 22 08:34:49 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

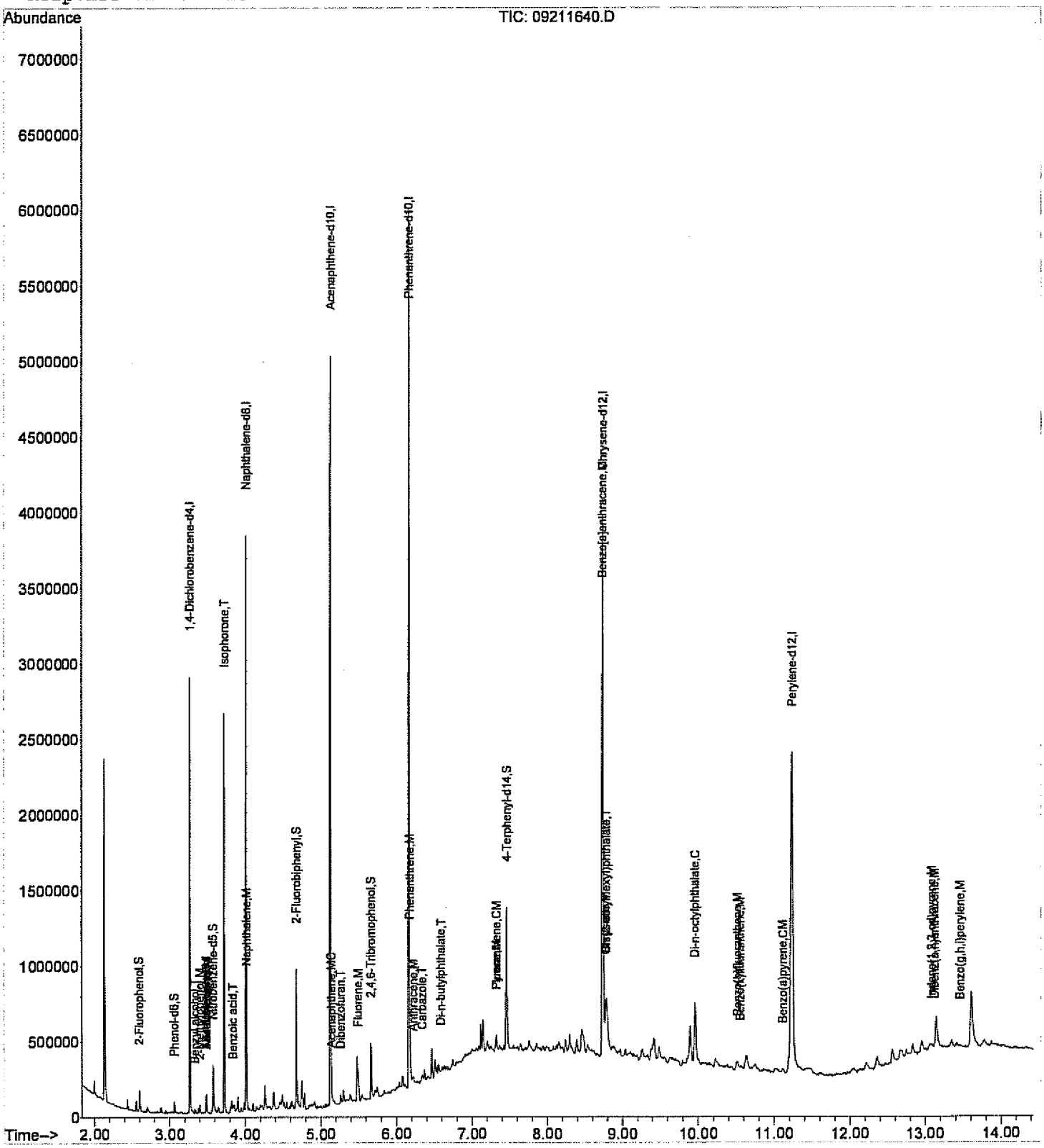
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Benzo(k)fluoranthene	10.55	252	9482m	0.64	ug/ml	
95)	Benzo(a)pyrene	11.12	252	14237	1.43	ug/ml	76
96)	Indeno(1,2,3-cd)pyrene	13.09	276	12233	1.37	ug/ml	60
97)	Dibenz(a,h)anthracene	13.12	278	3986	0.20	ug/ml	81
98)	Benzo(g,h,i)perylene	13.45	276	11439	0.37	ug/ml	79

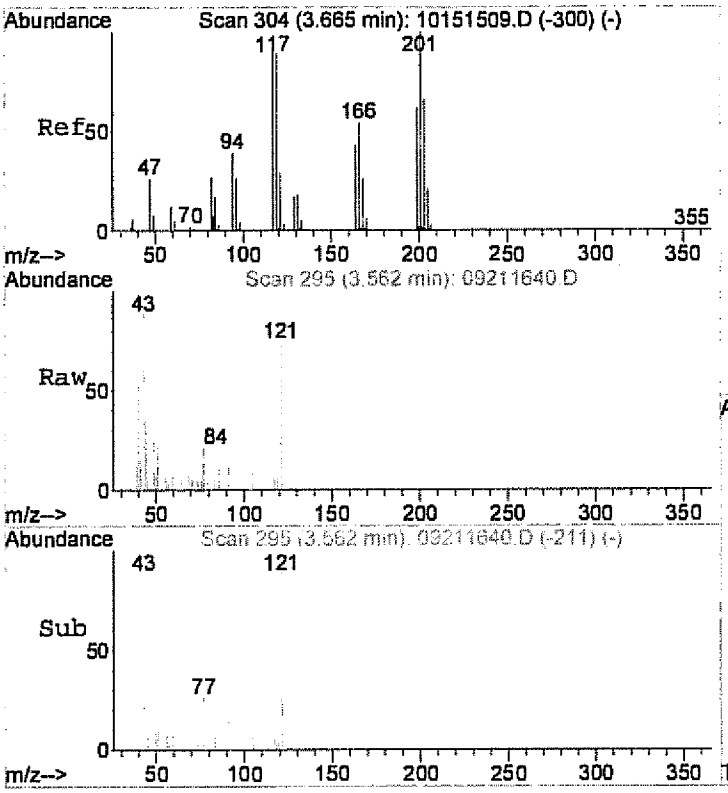
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211640.D Vial: 38
Acq On : 22 Sep 2016 12:02 am Operator: JF
Sample : 16091057-01B DF5 Inst : SVMS5
Misc : 5X 16BAW-91630 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 22 11:34 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration

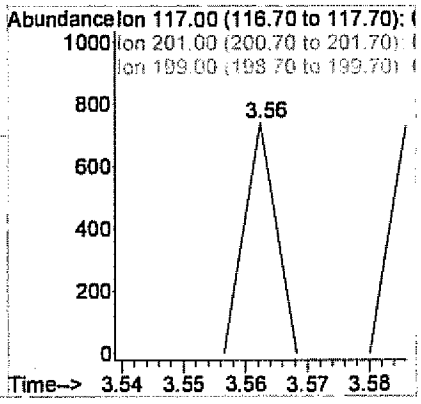


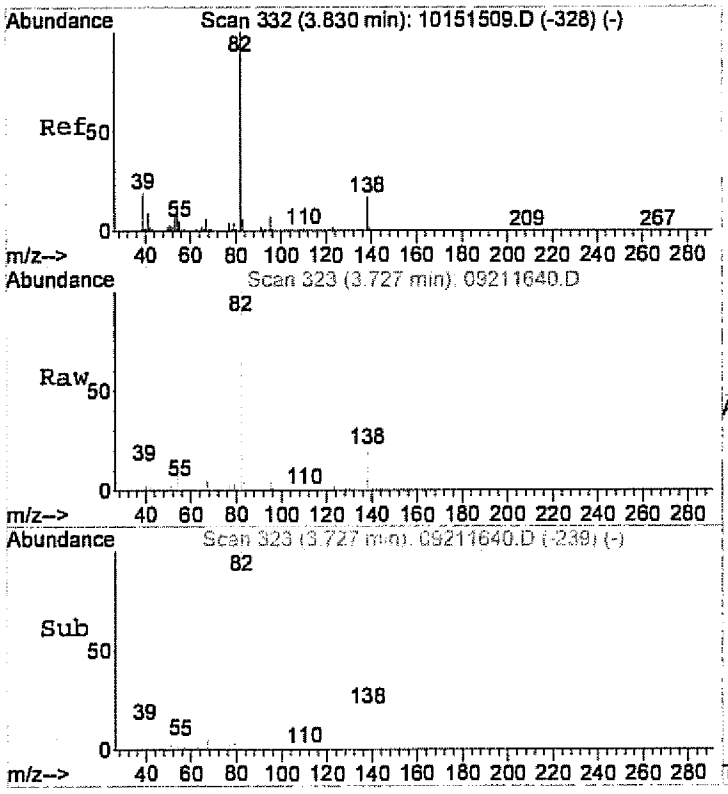


#23
Hexachloroethane
Concen: Below Cal
RT: 3.56 min Scan# 295
Delta R.T. -0.01 min
Lab File: 09211640.D
Acq: 22 Sep 2016 12:02 am

Tgt Ion:117 Resp: 261

Ion	Ratio	Lower	Upper
117	100		
201	0.0	68.9	128.9#
199	0.0	31.5	91.5#

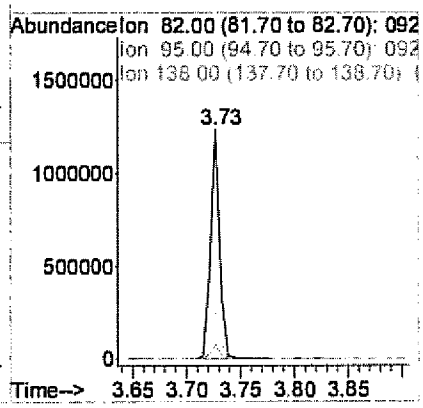




#27
Isophorone
Concen: 33.18 ug/ml
RT: 3.73 min Scan# 323
Delta R.T. -0.01 min
Lab File: 09211640.D
Acq: 22 Sep 2016 12:02 am

Tgt Ion: 82 Resp: 734828

Ion	Ratio	Lower	Upper
82	100		
95	6.1	0.0	37.6
138	19.8	0.0	47.8



Response Factor Report SVMS5

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration

Calibration Files
5 =09181608.D 10 =09181609.D 20 =09181610.D
40 =09181611.D 50 =09181612.D 60 =09181613.D

		Compound	5	10	20	40	50	60	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane	0.303	0.312	0.294	0.266	0.249	0.253	0.285	8.90
3)	M	Pyridine	0.843	0.831	0.810	0.836	0.801	0.792	0.792	7.56
4)	T	N-Nitrosodimeth	0.364	0.341	0.315	0.318	0.299	0.297	0.411	51.94
5)	S	2-Fluorophenol	0.717	0.697	0.728	0.732	0.704	0.695	0.697	4.28
6)	T	Benzaldehyde	0.349	0.438	0.528	0.547	0.503	0.472	0.474	18.37
7)	S	Phenol-d6	1.019	1.064	1.041	1.075	1.026	0.992	0.973	10.05
8)	MC	Phenol	1.212	1.266	1.177	1.211	1.163	1.126	1.180	7.88
9)	T	Aniline	1.230	1.329	1.213	1.236	1.162	1.118	1.194	13.21
10)	T	Bis(2-chloroeth	0.910	0.908	0.841	0.853	0.807	0.785	0.887	11.33
11)	MT	2-Chlorophenol	0.860	0.884	0.857	0.889	0.845	0.834	0.832	6.64
12)	T	1,3-Dichloroben	0.963	0.950	0.925	0.912	0.873	0.854	0.971	13.88
13)	MC	1,4-Dichloroben	1.006	0.964	0.951	0.939	0.894	0.884	0.984	8.37
14)	T	Benzyl alcohol	0.576	0.651	0.602	0.640	0.622	0.597	0.583	14.72
15)	T	1,2-Dichloroben	0.961	0.959	0.912	0.921	0.878	0.860	0.957	10.69
16)	M	2-Methylphenol	0.688	0.759	0.711	0.727	0.702	0.668	0.698	13.31
17)	T	2,2'-Oxybis(1-c	1.060	1.107	0.980	0.954	0.895	0.853	1.068	21.71
18)	M	3-Methylphenol	0.955	1.042	0.941	0.969	0.920	0.869	0.914	10.97
19)	M	4-Methylphenol	0.958	1.050	0.941	0.969	0.920	0.870	0.915	11.11
20)		3&4-Methylpheno	0.958	1.050	0.944	0.969	0.930	0.871	0.917	11.09
21)	T	Acetophenone	1.307	1.413	1.223	1.240	1.170	1.104	1.308	17.98
22)	MP	N-Nitrosodi-n-p	0.639	0.716	0.646	0.659	0.618	0.583	0.659	19.43
23)	M	Hexachloroethan	0.359	0.352	0.342	0.347	0.331	0.325	0.341	5.56
24)	I	Naphthalene-d8	----------ISTD----------							
25)	S	Nitrobenzene-d5	0.356	0.345	0.371	0.376	0.379	0.390	0.352	8.85
26)	M	Nitrobenzene	0.173	0.172	0.177	0.185	0.184	0.191	0.167	12.96
27)	T	Isophorone	0.608	0.645	0.639	0.659	0.658	0.667	0.650	15.87
28)	C	2-Nitrophenol	0.171	0.176	0.194	0.207	0.206	0.216	0.180	18.24
29)	T	2,4-Dimethylphe	0.302	0.317	0.328	0.348	0.344	0.350	0.321	16.54
30)	T	Bis(2-chloroeth	0.403	0.413	0.402	0.418	0.414	0.418	0.418	12.01
31)	T	Benzoic acid	0.163	0.207	0.209	0.263	0.276	0.283	0.191	46.98
32)	C	2,4-Dichlorophe	0.284	0.291	0.297	0.317	0.321	0.331	0.282	17.81
33)	M	1,2,4-Trichloro	0.325	0.313	0.326	0.334	0.334	0.345	0.338	8.67
34)	M	Naphthalene	1.083	1.048	1.024	1.043	1.021	1.043	1.216	26.22
35)	T	4-Chloroaniline	0.448	0.473	0.455	0.475	0.471	0.469	0.433	12.84
36)		2,6-Dichlorophe	0.284	0.291	0.297	0.317	0.321	0.331	0.282	17.81
37)	CM	Hexachlorobutad	0.171	0.167	0.170	0.175	0.174	0.180	0.179	13.60
38)	T	Caprolactam	0.163	0.189	0.166	0.186	0.187	0.188	0.163	20.75
39)	MC	4-Chloro-3-meth	0.295	0.322	0.305	0.335	0.336	0.341	0.300	15.74
40)		2-Methylnaphtha	0.775	0.800	0.761	0.787	0.782	0.789	0.812	15.53
41)	T	1-Methylnaphtha	0.730	0.747	0.720	0.744	0.724	0.738	0.764	15.47
42)	T	1,1`-Biphenyl	0.969	1.023	0.949	0.975	0.958	0.938	1.009	18.15
43)	I	Acenaphthene-d10	----------ISTD----------							
44)	P	Hexachlorocyclo	0.071	0.082	0.131	0.157	0.162	0.177	0.114	51.75
45)		1,2,4,5-Tetrach	0.520	0.488	0.533	0.552	0.541	0.562	0.562	20.69
46)	CM	2,4,6-Trichloro	0.320	0.332	0.350	0.378	0.370	0.380	0.329	15.93
47)	M	2,4,5-Trichloro	0.350	0.361	0.381	0.410	0.408	0.414	0.356	18.11
48)	S	2-Fluorobipheny	1.209	1.181	1.246	1.266	1.248	1.269	1.241	3.67
49)		1,3-Dinitrobenz	0.208	0.228	0.229	0.249	0.253	0.255	0.209	25.73
50)	T	2-Chloronaphtha	1.087	1.056	1.090	1.110	1.069	1.076	1.148	19.62
51)	T	2-Nitroaniline	0.254	0.278	0.292	0.320	0.312	0.323	0.265	21.15

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report SVMS5

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration

Calibration Files
5 =09181608.D 10 =09181609.D 20 =09181610.D
40 =09181611.D 50 =09181612.D 60 =09181613.D

		Compound	5	10	20	40	50	60	Avg	%RSD
52)	T	Dimethylphthala	1.286	1.316	1.257	1.314	1.304	1.314	1.418	29.53
53)		2,3,5,6-Tetrach	0.312	0.332	0.326	0.362	0.357	0.360	0.307	19.73
54)		2,3,4,6-Tetrach	0.339	0.352	0.345	0.374	0.367	0.370	0.332	15.93
55)	M	Acenaphthylene	1.579	1.574	1.581	1.638	1.615	1.621	1.686	21.35
56)	T	2,6-Dinitrotolu	0.295	0.312	0.313	0.334	0.325	0.334	0.288	20.21
57)	T	3-Nitroaniline	0.330	0.358	0.353	0.387	0.384	0.384	0.329	22.57
58)	MC	Acenaphthene	1.138	1.138	1.118	1.206	1.182	1.209	1.247	21.23#
59)	P	2,4-Dinitrophen	0.066	0.121	0.133	0.188	0.200	0.207	0.152	36.37
60)	T	Dibenzofuran	1.673	1.669	1.614	1.688	1.621	1.664	1.791	23.65
61)	MP	4-Nitrophenol	0.223	0.251	0.231	0.282	0.280	0.289	0.243	20.93
62)	M	2,4-Dinitrotolu	0.295	0.312	0.313	0.334	0.325	0.334	0.288	20.21
63)	T	Diethylphthalat	1.282	1.341	1.258	1.330	1.290	1.303	1.375	23.35
64)	M	Fluorene	1.371	1.408	1.354	1.423	1.395	1.406	1.478	21.76
65)	T	4-Chlorophenyl	0.639	0.652	0.627	0.673	0.661	0.672	0.685	19.35
66)	T	4-Nitroaniline	0.370	0.423	0.386	0.413	0.410	0.415	0.348	30.06
67)	T	Atrazine	0.315	0.348	0.324	0.317	0.256	0.212	0.284	17.47
68)	I	Phenanthrene-d10	----------ISTD----------							
69)	T	4,6-Dinitro-2-m	0.105	0.129	0.133	0.156	0.159	0.161	0.114	47.40
70)	C	N-Nitrosodiphen	0.596	0.591	0.630	0.642	0.632	0.639	0.623	12.90
71)	T	1,2-Diphenylhyd	0.640	0.636	0.666	0.668	0.653	0.657	0.674	17.68
72)	S	2,4,6-Tribromop	0.106	0.109	0.119	0.119	0.120	0.124	0.120	35.94
73)	T	4-Bromophenyl p	0.200	0.204	0.215	0.222	0.223	0.230	0.221	17.44
74)	M	Hexachlorobenze	0.247	0.247	0.250	0.256	0.255	0.259	0.276	24.74
75)	MC	Pentachlorophen	0.102	0.117	0.126	0.148	0.147	0.152	0.122	26.77
76)	M	Phenanthrene	1.142	1.144	1.111	1.164	1.149	1.162	1.283	31.02
77)	M	Anthracene	1.109	1.127	1.124	1.163	1.155	1.160	1.187	18.59
78)	T	Carbazole	1.096	1.126	1.094	1.163	1.144	1.156	1.132	15.64
79)	T	Di-n-butylphtha	1.180	1.238	1.243	1.303	1.292	1.265	1.225	16.46
80)	CM	Fluoranthene	1.420	1.485	1.382	1.492	1.494	1.514	1.513	21.14#
81)	I	Chrysene-d12	----------ISTD----------							
82)		3,3-Dimethylben	0.280	0.398	0.521	0.649	0.654	0.668	0.426	54.51
83)	T	Benzidine	0.235	0.344	0.430	0.504	0.490	0.479	0.371	40.17
84)	M	Pyrene	1.008	1.019	1.153	1.129	1.108	1.098	1.122	19.85
85)	S	4-Terphenyl-d14	0.689	0.677	0.780	0.782	0.766	0.783	0.726	7.28
86)	T	Butylbenzylphth	0.415	0.449	0.505	0.526	0.516	0.527	0.431	23.42
87)	M	Benzo[a]anthrac	1.132	1.141	1.158	1.228	1.214	1.249	1.355	39.53
88)	T	3,3'-Dichlorobe	0.231	0.275	0.295	0.369	0.372	0.391	0.256	43.61
89)	M	Chrysene	1.057	1.051	1.058	1.126	1.093	1.095	1.177	27.13
90)	T	Bis(2-ethylhexy	0.537	0.584	0.652	0.705	0.688	0.693	0.546	29.34
91)	I	Perylene-d12	----------ISTD----------							
92)	C	Di-n-octylphtha	0.662	0.771	1.134	1.219	1.214	1.305	0.871	46.08#
93)	M	Benzo(b)fluoran	0.967	1.001	1.178	1.240	1.233	1.331	1.082	20.64
94)	M	Benzo(k)fluoran	1.065	1.067	1.206	1.244	1.238	1.219	1.107	13.74
95)	CM	Benzo(a)pyrene	0.913	0.978	1.073	1.218	1.237	1.261	0.991	23.99#
96)	M	Indeno(1,2,3-cd	0.705	0.898	0.965	1.022	1.090	1.074	0.805	33.10
97)	M	Dibenz(a,h)anth	0.831	0.994	0.831	1.094	1.124	1.053	0.855	27.08
98)	M	Benzo(g,h,i)per	0.894	1.054	0.846	1.035	1.063	0.944	0.918	17.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

Partial Calibration Report SVMS5

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Wed Sep 28 16:54:39 2016
Response via : Initial Calibration

Calibration Files
5 =09181608 10 =09181609 20 =09181610 40 =09181611 50 =09181612
60 =09181613 1 =09181607 0.5 =09181606 0.1 =09181605

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	I	1,4-Dichlorobenzene-		----------ISTD----------			
2)		1,4-Dioxane	Lin	0.0085	0.2491	-----	0.9966
3)	M	Pyridine	Lin	0.0049	0.8001	-----	0.9991
4)	T	N-Nitrosodimethylami	Lin	0.0056	0.2984	-----	0.9985
6)	T	Benzaldehyde	Quad	-0.0143	0.6192	-0.0862	0.9963
7)	S	Phenol-d6	Lin	0.0055	1.0170	-----	0.9982
8)	MC	Phenol	Lin	0.0107	1.1486	-----	0.9985
9)	T	Aniline	Lin	0.0166	1.1466	-----	0.9969
10)	T	Bis(2-chloroethyl)et	Lin	0.0126	0.7979	-----	0.9979
11)	MT	2-Chlorophenol	Lin	0.0040	0.8462	-----	0.9989
12)	T	1,3-Dichlorobenzene	Lin	0.0121	0.8651	-----	0.9987
14)	T	Benzyl alcohol	Lin	0.0009	0.6131	-----	0.9985
17)	T	2,2'-Oxybis(1-chloro	Lin	0.0249	0.8728	-----	0.9955
21)	T	Acetophenone	Lin	0.0257	1.1374	-----	0.9955
22)	MP	N-Nitrosodi-n-propyl	Lin	0.0106	0.6038	-----	0.9954
23)	M	Hexachloroethane	Lin	0.0040	0.3289	-----	0.9988
24)	I	Naphthalene-d8		----------ISTD----------			
25)	S	Nitrobenzene-d5	Lin	-0.0041	0.3858	-----	0.9994
26)	M	Nitrobenzene	Lin	-0.0023	0.1892	-----	0.9993
27)	T	Isophorone	Lin	-0.0044	0.6648	-----	0.9998
28)	C	2-Nitrophenol	Lin	-0.0055	0.2145	-----	0.9985
29)	T	2,4-Dimethylphenol	Lin	-0.0043	0.3500	-----	0.9996
30)	T	Bis(2-chloroethoxy)m	Lin	-0.0015	0.4171	-----	0.9999
31)	T	Benzoic acid	Quad	-0.0048	0.2099	0.0527	0.9992
32)	C	2,4-Dichlorophenol	Lin	-0.0069	0.3292	-----	0.9990
34)	M	Naphthalene	Lin	0.0037	1.0323	-----	0.9998
35)	T	4-Chloroaniline	Lin	-0.0020	0.4719	-----	0.9999
36)		2,6-Dichlorophenol	Lin	-0.0069	0.3292	-----	0.9990
37)	CM	Hexachlorobutadiene	Lin	-0.0013	0.1777	-----	0.9995
38)	T	Caprolactam	Lin	-0.0031	0.1893	-----	0.9989
39)	MC	4-Chloro-3-methylphe	Lin	-0.0047	0.3401	-----	0.9992
40)		2-Methylnaphthalene	Lin	-0.0014	0.7862	-----	0.9999
41)	T	1-Methylnaphthalene	Lin	-0.0004	0.7345	-----	0.9997
42)	T	1,1`-Biphenyl	Lin	0.0048	0.9489	-----	0.9995
43)	I	Acenaphthene-d10		----------ISTD----------			
44)	P	Hexachlorocyclopenta	Quad	-0.0059	0.1176	0.0415	0.9988
45)		1,2,4,5-Tetrachlorob	Lin	-0.0054	0.5561	-----	0.9992
46)	CM	2,4,6-Trichloropheno	Lin	-0.0072	0.3807	-----	0.9994
47)	M	2,4,5-Trichloropheno	Lin	-0.0081	0.4161	-----	0.9995
49)		1,3-Dinitrobenzene	Lin	-0.0060	0.2570	-----	0.9993
50)	T	2-Chloronaphthalene	Lin	0.0013	1.0800	-----	0.9996
51)	T	2-Nitroaniline	Lin	-0.0060	0.3223	-----	0.9990
52)	T	Dimethylphthalate	Lin	-0.0034	1.3114	-----	0.9998
53)		2,3,5,6-Tetrachlorop	Lin	-0.0051	0.3621	-----	0.9993
54)		2,3,4,6-Tetrachlorop	Lin	-0.0036	0.3717	-----	0.9996
55)	M	Acenaphthylene	Lin	-0.0051	1.6242	-----	0.9999
56)	T	2,6-Dinitrotoluene	Lin	-0.0047	0.3338	-----	0.9995
57)	T	3-Nitroaniline	Lin	-0.0066	0.3887	-----	0.9995
58)	MC	Acenaphthene	Lin	-0.0088	1.2030	-----	0.9994
59)	P	2,4-Dinitrophenol	Quad	-0.0140	0.1573	0.0407	0.9985
60)	T	Dibenzofuran	Lin	0.0000	1.6533	-----	0.9995
61)	MP	4-Nitrophenol	Lin	-0.0119	0.2921	-----	0.9973

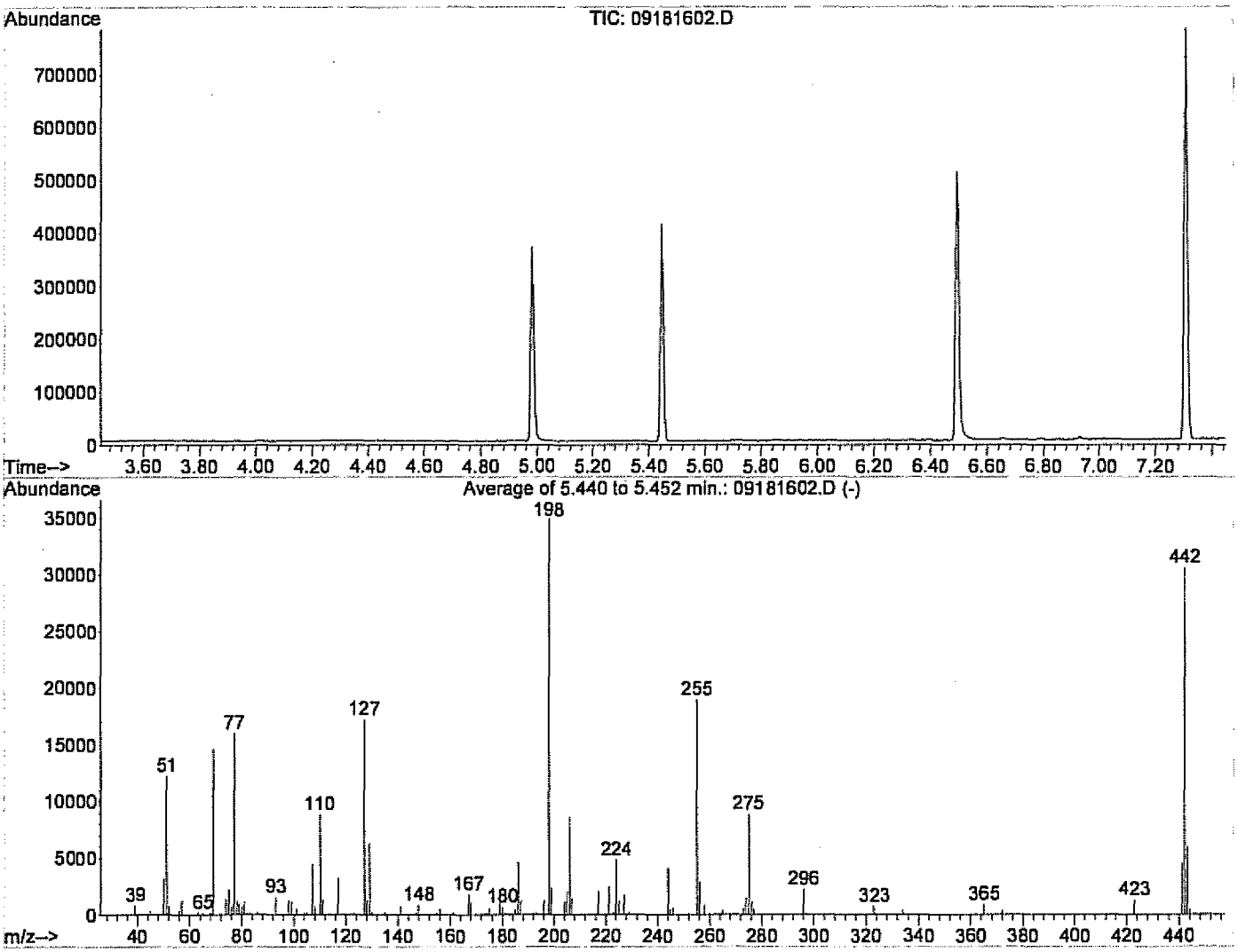
Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Wed Sep 28 16:54:39 2016
Response via : Initial Calibration

Calibration Files
5 =09181608 10 =09181609 20 =09181610 40 =09181611 50 =09181612
60 =09181613 1 =09181607 0.5 =09181606 0.1 =09181605

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
62)	M	2,4-Dinitrotoluene	Lin	-0.0047	0.3338	-----	0.9995
63)	T	Diethylphthalate	Lin	-0.0008	1.3030	-----	0.9996
64)	M	Fluorene	Lin	-0.0032	1.4062	-----	0.9998
65)	T	4-Chlorophenyl pheny	Lin	-0.0041	0.6701	-----	0.9996
66)	T	4-Nitroaniline	Lin	-0.0050	0.4162	-----	0.9996
67)	T	Atrazine	Quad	-0.0008	0.3850	-0.1042	0.9921
68)	I	Phenanthrene-d10		----------ISTD----------			
69)	T	4,6-Dinitro-2-methyl	Lin	-0.0066	0.1636	-----	0.9980
70)	C	N-Nitrosodiphenylami	Lin	-0.0038	0.6399	-----	0.9998
71)	T	1,2-Diphenylhydrazin	Lin	-0.0007	0.6586	-----	0.9998
72)	S	2,4,6-Tribromophenol	Lin	-0.0016	0.1226	-----	0.9992
73)	T	4-Bromophenyl phenyl	Lin	-0.0028	0.2276	-----	0.9993
74)	M	Hexachlorobenzene	Lin	-0.0011	0.2578	-----	0.9998
75)	MC	Pentachlorophenol	Lin	-0.0075	0.1543	-----	0.9981
76)	M	Phenanthrene	Lin	-0.0028	1.1579	-----	0.9998
77)	M	Anthracene	Lin	-0.0048	1.1613	-----	0.9999
78)	T	Carbazole	Lin	-0.0070	1.1564	-----	0.9997
79)	T	Di-n-butylphthalate	Lin	-0.0067	1.2850	-----	0.9996
80)	CM	Fluoranthene	Lin	-0.0120	1.5076	-----	0.9994
81)	I	Chrysene-d12		----------ISTD----------			
82)		3,3-Dimethylbenzidin	Quad	-0.0225	0.5480	0.0958	0.9980
83)	T	Benzidine	Lin	-0.0269	0.5068	-----	0.9972
84)	M	Pyrene	Lin	-0.0026	1.1106	-----	0.9995
85)	S	4-Terphenyl-d14	Lin	-0.0071	0.7823	-----	0.9995
86)	T	Butylbenzylphthalate	Lin	-0.0086	0.5292	-----	0.9995
87)	M	Benzo[a]anthracene	Lin	-0.0116	1.2387	-----	0.9994
88)	T	3,3'-Dichlorobenzidi	Quad	-0.0047	0.2865	0.0734	0.9991
89)	M	Chrysene	Lin	-0.0039	1.1016	-----	0.9996
90)	T	Bis(2-ethylhexyl)pht	Lin	-0.0130	0.7018	-----	0.9993
91)	I	Perylene-d12		----------ISTD----------			
92)	C	Di-n-octylphthalate	Lin	-0.0661	1.3035	-----	0.9959
93)	M	Benzo(b)fluoranthene	Lin	-0.0333	1.3009	-----	0.9969
94)	M	Benzo(k)fluoranthene	Lin	-0.0133	1.2387	-----	0.9995
95)	CM	Benzo(a)pyrene	Lin	-0.0352	1.2636	-----	0.9981
96)	M	Indeno(1,2,3-cd)pyre	Lin	-0.0286	1.0858	-----	0.9983
97)	M	Dibenz(a,h)anthracen	Quad	-0.0017	0.8720	0.1584	0.9951
98)	M	Benzo(g,h,i)perylene	Quad	-0.0008	0.9488	0.0365	0.9942

DFTPP

Data File : C:\MSDCHEM\1\DATA\5S091816\09181602.D Vial: 2
Acq On : 18 Sep 2016 11:22 am Operator: JF
Sample : 50ug/ml DFTPP Inst : SVMS5
Misc : 300.0063 Multiplr: 1.00
MS Integration Params: 8270.P
Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration



Spectrum Information: Average of 5.440 to 5.452 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.1	12242	PASS
68	69	0.00	2	1.1	168	PASS
69	198	0.00	100	41.9	14646	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	49.4	17239	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	34922	PASS
199	198	5	9	6.8	2378	PASS
275	198	10	60	25.4	8882	PASS
365	198	1	100	2.6	906	PASS
441	443	0.01	100	75.5	4508	PASS
442	198	50	100	87.7	30615	PASS
443	442	15	24	19.5	5968	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181605.D Vial: 4
Acq On : 18 Sep 2016 12:26 pm Operator: JF
Sample : 0.1 ug/ml BNA Inst : SVMS5
Misc : 300.0090A Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:13 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	450279	40.00 ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1277049	40.00 ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	848035	40.00 ug/ml	-0.06
68) Phenanthrene-d10	6.19	188	1631412	40.00 ug/ml	-0.11
81) Chrysene-d12	8.79	240	2251208	40.00 ug/ml	-0.15
91) Perylene-d12	11.28	264	2426419	40.00 ug/ml	-0.16
System Monitoring Compounds					
5) 2-Fluorophenol	2.61	112	1960	0.25 ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery	= 0.50%#	
7) Phenol-d6	3.08	99	2312	0.03 ug/ml	-0.01
Spiked Amount 50.000	Range 3 - 67		Recovery	= 0.06%#	
25) Nitrobenzene-d5	3.59	82	2338	0.48 ug/ml	-0.03
Spiked Amount 50.000	Range 8 - 115		Recovery	= 0.96%#	
48) 2-Fluorobiphenyl	4.69	172	6995	0.28 ug/ml	-0.05
Spiked Amount 50.000	Range 20 - 122		Recovery	= 0.56%#	
72) 2,4,6-Tribromophenol	5.69	330	925	0.61 ug/ml	-0.08
Spiked Amount 50.000	Range 24 - 162		Recovery	= 1.22%#	
85) 4-Terphenyl-d14	7.51	244	10272	0.85 ug/ml	-0.13
Spiked Amount 50.000	Range 22 - 172		Recovery	= 1.70%#	

Target Compounds					Qvalue
2) 1,4-Dioxane	0.00	88	0	N.D. d	
3) Pyridine	0.00	79	0	N.D.	
4) N-Nitrosodimethylamine	2.01	42	1089	Below Cal #	20
6) Benzaldehyde	3.04	77	657	0.74 ug/ml#	18
8) Phenol	3.09	94	1500m	Below Cal	
9) Aniline	3.10	93	1672m	Below Cal	
10) Bis(2-chloroethyl)ether	3.12	93	1272m	0.14 ug/ml	
11) 2-Chlorophenol	3.17	128	931m	Below Cal	
12) 1,3-Dichlorobenzene	3.25	146	1476	0.14 ug/ml	79
13) 1,4-Dichlorobenzene	3.29	146	1293m	0.12 ug/ml	
14) Benzyl alcohol	3.35	108	747	0.12 ug/ml#	75
15) 1,2-Dichlorobenzene	3.37	146	1361	0.13 ug/ml	97
16) 2-Methylphenol	3.42	107	987m	Below Cal	
17) 2,2'-Oxybis(1-chloropropan	3.41	45	1849	0.17 ug/ml	61
18) 3-Methylphenol	3.50	107	1130m	Below Cal	
19) 4-Methylphenol	3.50	107	1130m	Below Cal	
20) 3&4-Methylphenol	3.50	107	1130m	Below Cal	
21) Acetophenone	3.50	105	2127m	Below Cal	
22) N-Nitrosodi-n-propylamine	3.49	70	1090m	Below Cal	
23) Hexachloroethane	0.00	117	0	N.D. d	
26) Nitrobenzene	3.60	123	478m	0.61 ug/ml	
27) Isophorone	3.73	82	2847m	0.31 ug/ml	
28) 2-Nitrophenol	0.00	139	0	N.D. d	
29) 2,4-Dimethylphenol	3.81	107	1307m	0.65 ug/ml	
30) Bis(2-chloroethoxy)methane	3.86	93	1729m	0.22 ug/ml	
31) Benzoic acid	0.00	122	0	N.D. d	
32) 2,4-Dichlorophenol	0.00	162	0	N.D. d	
33) 1,2,4-Trichlorobenzene	3.98	180	1319	0.13 ug/ml	88
34) Naphthalene	4.03	128	6352m	Below Cal	
35) 4-Chloroaniline	4.07	127	1301m	0.37 ug/ml	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181605.D Vial: 4
Acq On : 18 Sep 2016 12:26 pm Operator: JF
Sample : 0.1 ug/ml BNA Inst : SVMS5
Misc : 300.0090A Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:13 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	2,6-Dichlorophenol	0.00	162	0	N.D. d	
37)	Hexachlorobutadiene	4.10	225	777m	0.30 ug/ml	
38)	Caprolactam	0.00	55	0	N.D. d	
39)	4-Chloro-3-methylphenol	4.37	107	1020	0.50 ug/ml#	81
40)	2-Methylnaphthalene	4.46	142	3646	0.16 ug/ml	94
41)	1-Methylnaphthalene	4.53	142	3429	0.15 ug/ml	96
42)	1,1`-Biphenyl	4.76	154	4732	0.02 ug/ml	97
44)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
45)	1,2,4,5-Tetrachlorobenzene	4.57	216	1830	0.56 ug/ml	92
46)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
47)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
49)	1,3-Dinitrobenzene	0.00	168	0	N.D.	
50)	2-Chloronaphthalene	4.77	162	3698	0.17 ug/ml	84
51)	2-Nitroaniline	4.84	65	521	0.83 ug/ml	90
52)	Dimethylphthalate	4.94	163	5359	0.20 ug/ml#	93
53)	2,3,5,6-Tetrachlorophenol	5.34	232	578	0.63 ug/ml#	69
54)	2,3,4,6-Tetrachlorophenol	5.37	232	733	0.39 ug/ml#	65
55)	Acenaphthylene	5.05	152	5570	0.21 ug/ml	97
56)	2,6-Dinitrotoluene	0.00	165	0	N.D. d	
57)	3-Nitroaniline	0.00	138	0	N.D. d	
58)	Acenaphthene	5.16	154	4115	0.17 ug/ml	87
59)	2,4-Dinitrophenol	0.00	184	0	N.D.	
60)	Dibenzofuran	5.28	168	6186	0.18 ug/ml#	64
61)	4-Nitrophenol	0.00	65	0	N.D. d	
62)	2,4-Dinitrotoluene	0.00	165	0	N.D. d	
63)	Diethylphthalate	5.41	149	4691	0.18 ug/ml	90
64)	Fluorene	5.51	166	4931	0.17 ug/ml	96
65)	4-Chlorophenyl phenyl ethe	5.51	204	2183	0.48 ug/ml	91
66)	4-Nitroaniline	0.00	138	0	N.D. d	
67)	Atrazine	5.97	200	652	0.43 ug/ml#	63
69)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
70)	N-Nitrosodiphenylamine	5.59	169	3267	0.42 ug/ml	97
71)	1,2-Diphenylhydrazine	5.62	77	3988	0.19 ug/ml	98
73)	4-Bromophenyl phenyl ether	5.85	248	1289	0.76 ug/ml	88
74)	Hexachlorobenzene	5.91	284	1863	0.18 ug/ml	88
75)	Pentachlorophenol	0.00	266	0	N.D.	
76)	Phenanthrene	6.21	178	9557	0.20 ug/ml	87
77)	Anthracene	6.25	178	7181	0.16 ug/ml	97
78)	Carbazole	6.37	167	6273	0.35 ug/ml	85
79)	Di-n-butylphthalate	6.61	149	6566	0.24 ug/ml#	90
80)	Fluoranthene	7.36	202	9454	0.17 ug/ml	92
82)	3,3-Dimethylbenzidine	0.00	212	0	N.D. d	
83)	Benzidine	0.00	184	0	N.D.	
84)	Pyrene	7.36	202	9454	0.61 ug/ml	93
86)	Butylbenzylphthalate	8.04	149	2160	0.81 ug/ml#	84
87)	Benzo[a]anthracene	8.77	228	15634	0.50 ug/ml	93
88)	3,3'-Dichlorobenzidine	8.74	252	752	1.70 ug/ml#	26
89)	Chrysene	8.82	228	11398	0.40 ug/ml#	91
90)	Bis(2-ethylhexyl)phthalate	8.83	149	2447	0.89 ug/ml#	74
92)	Di-n-octylphthalate	0.00	149	0	N.D. d	
93)	Benzo(b)fluoranthene	10.55	252	7758	1.20 ug/ml	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181605.D Vial: 4
Acq On : 18 Sep 2016 12:26 pm Operator: JF
Sample : 0.1 ug/ml BNA Inst : SVMS5
Misc : 300.0090A Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:13 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

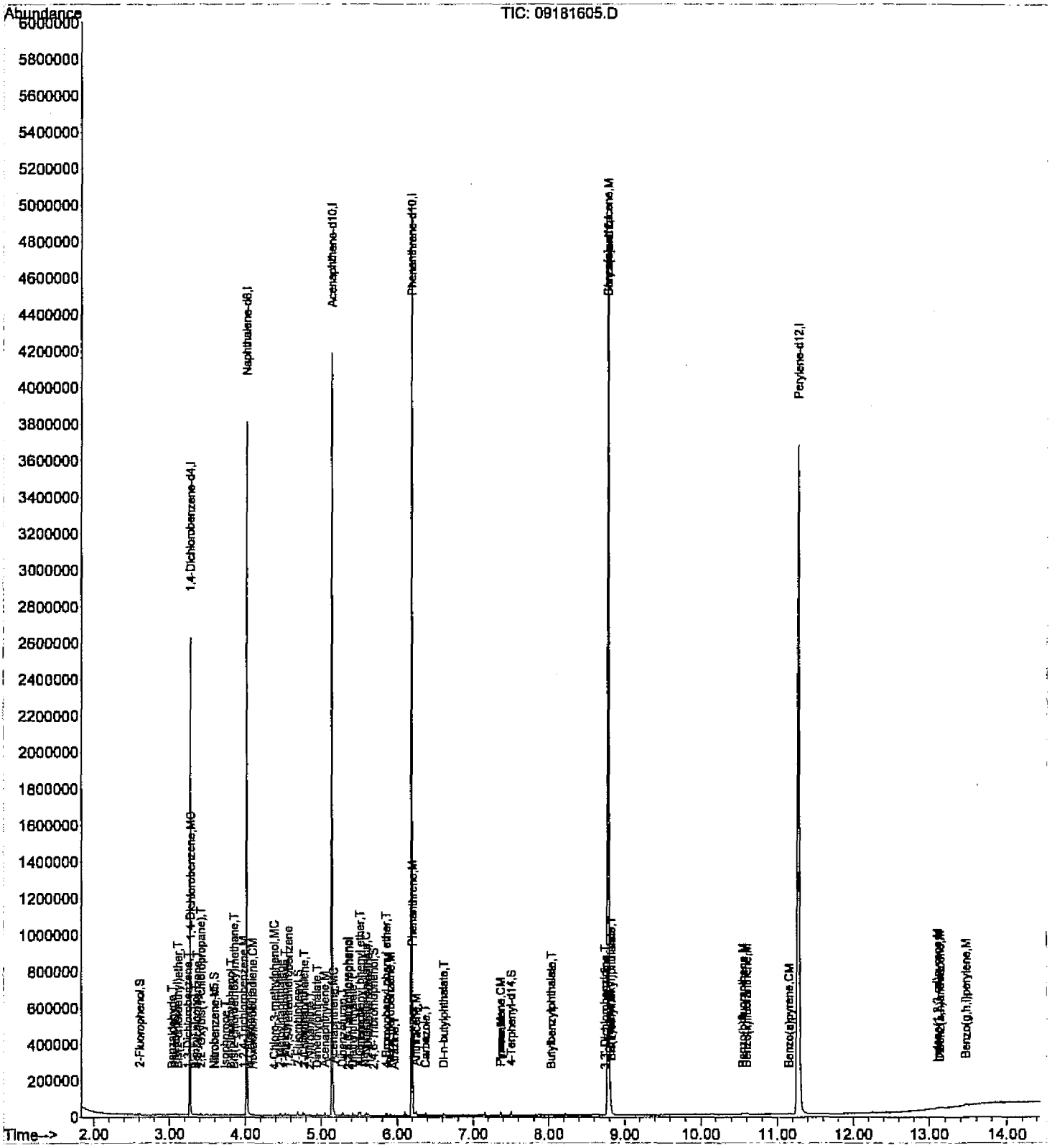
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.60	252	7234	0.92 ug/ml	89
95)	Benzo(a)pyrene	11.16	252	5858	1.14 ug/ml	86
96)	Indeno(1,2,3-cd)pyrene	13.10	276	3909m	1.07 ug/ml	
97)	Dibenz(a,h)anthracene	13.14	278	4236	0.63 ug/ml	72
98)	Benzo(g,h,i)perylene	13.46	276	6410	0.21 ug/ml	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181605.D Vial: 4
Acq On : 18 Sep 2016 12:26 pm Operator: JF
Sample : 0.1 ug/ml BNA Inst : SVMS5
Misc : 300.0090A Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 8:43 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181606.D Vial: 5
Acq On : 18 Sep 2016 12:49 pm Operator: JF
Sample : 0.5 ug/ml BNA Inst : SVMS5
Misc : 300.0090B Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:15 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	514343	40.00 ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1409442	40.00 ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	947463	40.00 ug/ml	-0.06
68) Phenanthrene-d10	6.19	188	1778979	40.00 ug/ml	-0.11
81) Chrysene-d12	8.78	240	2266405	40.00 ug/ml	-0.15
91) Perylene-d12	11.27	264	2292898	40.00 ug/ml	-0.16
System Monitoring Compounds					
5) 2-Fluorophenol	2.61	112	4255	0.48 ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery	= 0.96%#	
7) Phenol-d6	3.07	99	5529	0.27 ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery	= 0.54%#	
25) Nitrobenzene-d5	3.59	82	5931	0.73 ug/ml	-0.03
Spiked Amount 50.000	Range 8 - 115		Recovery	= 1.46%#	
48) 2-Fluorobiphenyl	4.69	172	14820	0.52 ug/ml	-0.05
Spiked Amount 50.000	Range 20 - 122		Recovery	= 1.04%#	
72) 2,4,6-Tribromophenol	5.69	330	1765	0.76 ug/ml	-0.08
Spiked Amount 50.000	Range 24 - 162		Recovery	= 1.52%#	
85) 4-Terphenyl-d14	7.50	244	19035	1.04 ug/ml	-0.14
Spiked Amount 50.000	Range 22 - 172		Recovery	= 2.08%#	

Target Compounds					Qvalue
2) 1,4-Dioxane	1.89	88	1923m	Below Cal	
3) Pyridine	2.06	79	4236	0.04 ug/ml	93
4) N-Nitrosodimethylamine	2.01	42	2869m	Below Cal	
6) Benzaldehyde	3.04	77	3291	1.13 ug/ml	90
8) Phenol	3.09	94	6467	0.26 ug/ml	86
9) Aniline	3.09	93	6264	0.15 ug/ml	64
10) Bis(2-chloroethyl)ether	3.12	93	5536	0.54 ug/ml	82
11) 2-Chlorophenol	3.17	128	4607	0.21 ug/ml	93
12) 1,3-Dichlorobenzene	3.25	146	6234	0.52 ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	6571m	0.53 ug/ml	
14) Benzyl alcohol	3.35	108	2561	0.36 ug/ml	92
15) 1,2-Dichlorobenzene	3.37	146	5992	0.51 ug/ml	93
16) 2-Methylphenol	3.42	107	3495	0.08 ug/ml	91
17) 2,2'-Oxybis(1-chloropropan	3.41	45	6646	0.52 ug/ml	81
18) 3-Methylphenol	3.50	107	4657m	0.08 ug/ml	
19) 4-Methylphenol	3.50	107	4657m	0.02 ug/ml	
20) 3&4-Methylphenol	3.50	107	4659	0.05 ug/ml#	38
21) Acetophenone	3.50	105	7547m	Below Cal	
22) N-Nitrosodi-n-propylamine	3.49	70	3370m	Below Cal	
23) Hexachloroethane	3.56	117	1967m	Below Cal	
26) Nitrobenzene	3.60	123	2202	0.86 ug/ml	94
27) Isophorone	3.73	82	9101	0.57 ug/ml	92
28) 2-Nitrophenol	3.79	139	2149	1.12 ug/ml#	67
29) 2,4-Dimethylphenol	3.81	107	3942	0.85 ug/ml	92
30) Bis(2-chloroethoxy)methane	3.85	93	6317	0.52 ug/ml	99
31) Benzoic acid	3.86	122	688	1.15 ug/ml	93
32) 2,4-Dichlorophenol	3.95	162	3261	0.99 ug/ml	96
33) 1,2,4-Trichlorobenzene	3.98	180	5829	0.51 ug/ml	92
34) Naphthalene	4.03	128	23515	0.27 ug/ml	64
35) 4-Chloroaniline	4.07	127	5492	0.62 ug/ml	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181606.D Vial: 5
Acq On : 18 Sep 2016 12:49 pm Operator: JF
Sample : 0.5 ug/ml BNA Inst : SVMS5
Misc : 300.0090B Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:15 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.95	162	3261	0.99 ug/ml	96
37) Hexachlorobutadiene	4.10	225	2908	0.62 ug/ml	96
38) Caprolactam	4.27	55	1794	0.80 ug/ml#	56
39) 4-Chloro-3-methylphenol	4.37	107	3553	0.71 ug/ml	91
40) 2-Methylnaphthalene	4.46	142	12570m	0.49 ug/ml	
41) 1-Methylnaphthalene	4.53	142	11967	0.49 ug/ml	93
42) 1,1`-Biphenyl	4.76	154	14979	0.32 ug/ml	98
44) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	5696	0.83 ug/ml	97
46) 2,4,6-Trichlorophenol	4.64	196	2882	0.88 ug/ml	93
47) 2,4,5-Trichlorophenol	4.68	196	2758m	0.72 ug/ml	
49) 1,3-Dinitrobenzene	4.98	168	1337	0.98 ug/ml	94
50) 2-Chloronaphthalene	4.77	162	11997	0.48 ug/ml	94
51) 2-Nitroaniline	4.84	65	1935	1.01 ug/ml#	78
52) Dimethylphthalate	4.94	163	13747	0.45 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.34	232	2103	0.80 ug/ml	92
54) 2,3,4,6-Tetrachlorophenol	5.37	232	2489	0.58 ug/ml	94
55) Acenaphthylene	5.05	152	16607	0.48 ug/ml	99
56) 2,6-Dinitrotoluene	4.99	165	2112	0.79 ug/ml	73
57) 3-Nitroaniline	5.12	138	2114	0.96 ug/ml	80
58) Acenaphthene	5.16	154	12700m	0.46 ug/ml	
59) 2,4-Dinitrophenol	0.00	184	0	N.D.	
60) Dibenzofuran	5.28	168	18924	0.51 ug/ml	96
61) 4-Nitrophenol	0.00	65	0	N.D. d	
62) 2,4-Dinitrotoluene	4.99	165	2112	0.79 ug/ml	73
63) Diethylphthalate	5.41	149	13289	0.45 ug/ml	96
64) Fluorene	5.51	166	14941	0.47 ug/ml	97
65) 4-Chlorophenyl phenyl ethe	5.51	204	6894	0.76 ug/ml	93
66) 4-Nitroaniline	5.54	138	1736	0.58 ug/ml#	31
67) Atrazine	5.96	200	2563	0.62 ug/ml	96
69) 4,6-Dinitro-2-methylphenol	5.55	198	431	1.67 ug/ml#	14
70) N-Nitrosodiphenylamine	5.59	169	11107	0.68 ug/ml	98
71) 1,2-Diphenylhydrazine	5.62	77	12367	0.46 ug/ml	97
73) 4-Bromophenyl phenyl ether	5.85	248	4144	1.03 ug/ml	94
74) Hexachlorobenzene	5.91	284	5509	0.49 ug/ml	88
75) Pentachlorophenol	0.00	266	0	N.D. d	
76) Phenanthrene	6.21	178	25606	0.49 ug/ml	94
77) Anthracene	6.25	178	22279	0.45 ug/ml	97
78) Carbazole	6.37	167	19674	0.61 ug/ml	89
79) Di-n-butylphthalate	6.61	149	19627	0.47 ug/ml	96
80) Fluoranthene	7.36	202	26339	0.43 ug/ml	92
82) 3,3-Dimethylbenzidine	8.02	212	2812	0.64 ug/ml#	61
83) Benzidine	0.00	184	0	N.D. d	
84) Pyrene	7.36	202	26339	0.85 ug/ml	93
86) Butylbenzylphthalate	8.03	149	7152	0.97 ug/ml	94
87) Benzo[a]anthracene	8.76	228	33048	0.74 ug/ml	95
88) 3,3'-Dichlorobenzidine	8.73	252	2753	1.79 ug/ml#	93
89) Chrysene	8.82	228	28824	0.67 ug/ml	97
90) Bis(2-ethylhexyl)phthalate	8.82	149	7656	1.02 ug/ml#	73
92) Di-n-octylphthalate	9.92	149	9008	1.00 ug/ml#	81
93) Benzo(b)fluoranthene	10.54	252	20174	1.37 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181606.D Vial: 5
Acq On : 18 Sep 2016 12:49 pm Operator: JF
Sample : 0.5 ug/ml BNA Inst : SVMS5
Misc : 300.0090B Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:15 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

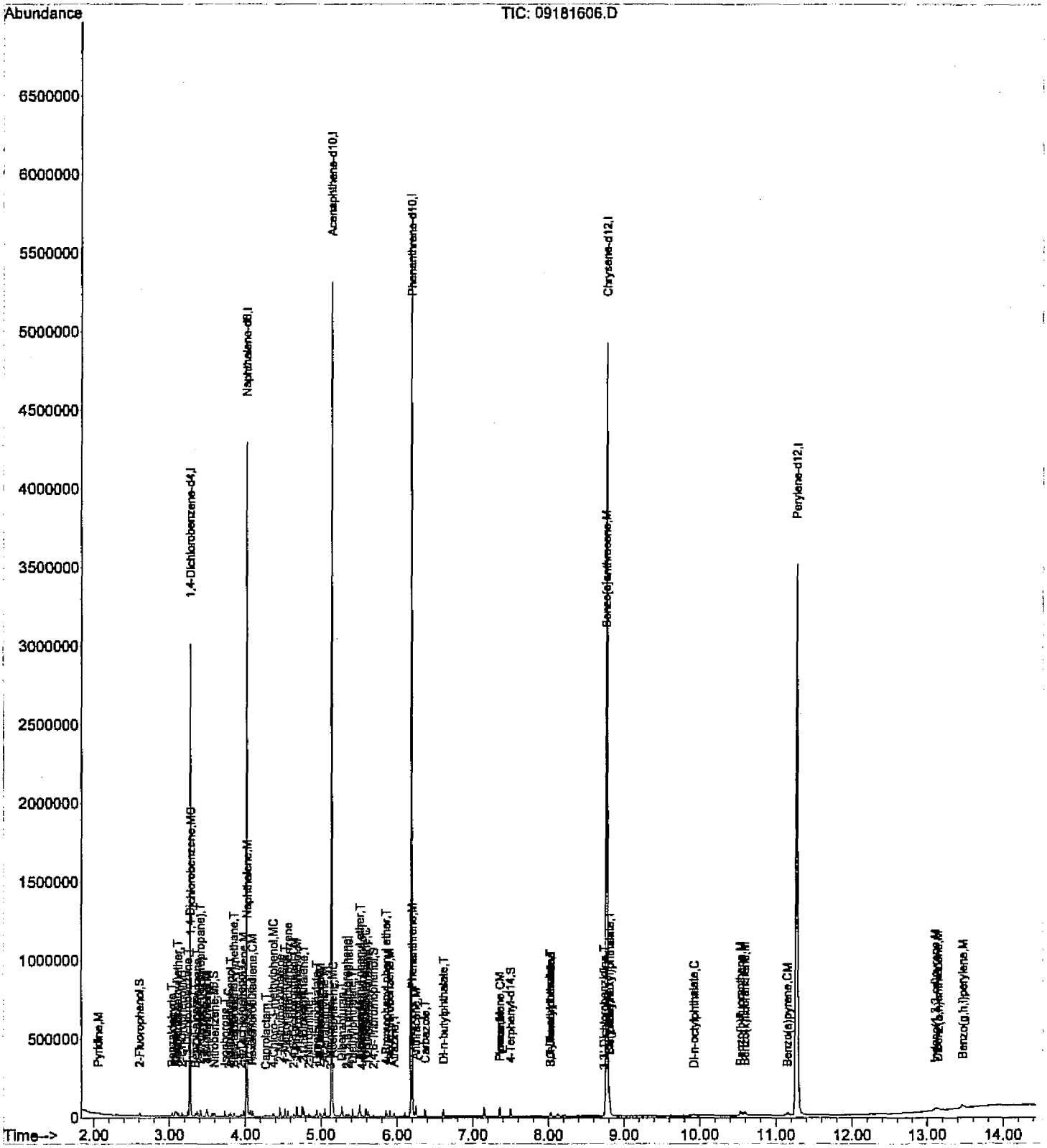
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.59	252	24152	1.15 ug/ml	96
95)	Benzo(a)pyrene	11.15	252	16897	1.30 ug/ml	94
96)	Indeno(1,2,3-cd)pyrene	13.10	276	10627m	1.18 ug/ml	
97)	Dibenz(a,h)anthracene	13.14	278	13141	0.77 ug/ml	90
98)	Benzo(g,h,i)perylene	13.46	276	17341	0.40 ug/ml	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181606.D Vial: 5
Acq On : 18 Sep 2016 12:49 pm Operator: JF
Sample : 0.5 ug/ml BNA Inst : SVMS5
Misc : 300.0090B Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 8:47 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181607.D Vial: 6
Acq On : 18 Sep 2016 1:12 pm Operator: JF
Sample : 1.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090C Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:15 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	499808	40.00 ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1398301	40.00 ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	957035	40.00 ug/ml	-0.06
68) Phenanthrene-d10	6.19	188	1812130	40.00 ug/ml	-0.11
81) Chrysene-d12	8.77	240	2475172	40.00 ug/ml	-0.16
91) Perylene-d12	11.27	264	2696881	40.00 ug/ml	-0.16
System Monitoring Compounds					
5) 2-Fluorophenol	2.61	112	7995	0.94 ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery = 1.88%#		
7) Phenol-d6	3.07	99	10779	0.73 ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery = 1.46%#		
25) Nitrobenzene-d5	3.59	82	11257	1.14 ug/ml	-0.03
Spiked Amount 50.000	Range 8 - 115		Recovery = 2.28%#		
48) 2-Fluorobiphenyl	4.69	172	28134	0.98 ug/ml	-0.05
Spiked Amount 50.000	Range 20 - 122		Recovery = 1.96%#		
72) 2,4,6-Tribromophenol	5.69	330	3642	1.09 ug/ml	-0.08
Spiked Amount 50.000	Range 24 - 162		Recovery = 2.18%#		
85) 4-Terphenyl-d14	7.50	244	40641	1.42 ug/ml	-0.14
Spiked Amount 50.000	Range 22 - 172		Recovery = 2.84%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.89	88	3813m	Below Cal	
3) Pyridine	2.05	79	9523	0.59 ug/ml	98
4) N-Nitrosodimethylamine	2.01	42	4401	0.22 ug/ml	85
6) Benzaldehyde	3.04	77	4111	1.28 ug/ml	89
8) Phenol	3.09	94	14052	0.92 ug/ml	89
9) Aniline	3.09	93	12499	0.60 ug/ml	58
10) Bis(2-chloroethyl)ether	3.12	93	11126	1.11 ug/ml	81
11) 2-Chlorophenol	3.17	128	9649	0.72 ug/ml	91
12) 1,3-Dichlorobenzene	3.25	146	12245	1.05 ug/ml	96
13) 1,4-Dichlorobenzene	3.29	146	13043	1.09 ug/ml	89
14) Benzyl alcohol	3.35	108	6157	0.89 ug/ml	81
15) 1,2-Dichlorobenzene	3.37	146	12294	1.07 ug/ml	96
16) 2-Methylphenol	3.41	107	7632	0.60 ug/ml	89
17) 2,2'-Oxybis(1-chloropropan	3.41	45	13597	1.10 ug/ml	79
18) 3-Methylphenol	3.50	107	10024m	0.59 ug/ml	
19) 4-Methylphenol	3.50	107	10022m	0.54 ug/ml	
20) 3&4-Methylphenol	3.50	107	10026	0.56 ug/ml#	35
21) Acetophenone	3.50	105	15662	0.49 ug/ml	87
22) N-Nitrosodi-n-propylamine	3.49	70	7243	0.28 ug/ml	93
23) Hexachloroethane	3.56	117	4526	0.61 ug/ml	92
26) Nitrobenzene	3.60	123	5222	1.33 ug/ml	86
27) Isophorone	3.73	82	19885	1.05 ug/ml	96
28) 2-Nitrophenol	3.79	139	5103	1.52 ug/ml	74
29) 2,4-Dimethylphenol	3.81	107	9377	1.31 ug/ml	92
30) Bis(2-chloroethoxy)methane	3.85	93	13629	1.04 ug/ml	99
31) Benzoic acid	3.86	122	3016	1.39 ug/ml#	83
32) 2,4-Dichlorophenol	3.94	162	8012	1.42 ug/ml	97
33) 1,2,4-Trichlorobenzene	3.98	180	11348	1.00 ug/ml	96
34) Naphthalene	4.03	128	47438	0.95 ug/ml	90
35) 4-Chloroaniline	4.06	127	13389	1.11 ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181607.D Vial: 6
Acq On : 18 Sep 2016 1:12 pm Operator: JF
Sample : 1.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090C Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:15 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	8012	1.42 ug/ml	97
37) Hexachlorobutadiene	4.10	225	5923	1.10 ug/ml	97
38) Caprolactam	4.27	55	4214	1.20 ug/ml	74
39) 4-Chloro-3-methylphenol	4.37	107	8536	1.16 ug/ml	94
40) 2-Methylnaphthalene	4.46	142	26604	1.05 ug/ml	93
41) 1-Methylnaphthalene	4.53	142	25060	1.03 ug/ml	93
42) 1,1`-Biphenyl	4.76	154	32766	0.88 ug/ml	98
44) Hexachlorocyclopentadiene	4.56	237	394	2.64 ug/ml#	92
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	12330	1.31 ug/ml	98
46) 2,4,6-Trichlorophenol	4.64	196	6222	1.25 ug/ml	98
47) 2,4,5-Trichlorophenol	4.68	196	6948m	1.13 ug/ml	
49) 1,3-Dinitrobenzene	4.98	168	3365	1.31 ug/ml#	85
50) 2-Chloronaphthalene	4.77	162	25996	1.00 ug/ml	95
51) 2-Nitroaniline	4.84	65	4682	1.37 ug/ml	80
52) Dimethylphthalate	4.94	163	30748	1.00 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.34	232	6271	1.28 ug/ml	95
54) 2,3,4,6-Tetrachlorophenol	5.37	232	6805	1.07 ug/ml	95
55) Acenaphthylene	5.05	152	36695	1.00 ug/ml	98
56) 2,6-Dinitrotoluene	4.99	165	5198	1.17 ug/ml	85
57) 3-Nitroaniline	5.11	138	6167	1.39 ug/ml#	76
58) Acenaphthene	5.16	154	29134	1.04 ug/ml	98
59) 2,4-Dinitrophenol	0.00	184	0	N.D.	
60) Dibenzofuran	5.28	168	40158	1.06 ug/ml	96
61) 4-Nitrophenol	5.27	65	3434	2.70 ug/ml#	1
62) 2,4-Dinitrotoluene	4.99	165	5198	1.17 ug/ml	85
63) Diethylphthalate	5.41	149	29483	0.99 ug/ml	99
64) Fluorene	5.51	166	32462	1.01 ug/ml	97
65) 4-Chlorophenyl phenyl ethe	5.51	204	14947	1.25 ug/ml	93
66) 4-Nitroaniline	5.53	138	5304	0.96 ug/ml#	32
67) Atrazine	5.96	200	6147	1.00 ug/ml	94
69) 4,6-Dinitro-2-methylphenol	5.55	198	2080	1.89 ug/ml#	56
70) N-Nitrosodiphenylamine	5.59	169	26091	1.18 ug/ml	98
71) 1,2-Diphenylhydrazine	5.62	77	27704	0.96 ug/ml	96
73) 4-Bromophenyl phenyl ether	5.85	248	8758	1.46 ug/ml	90
74) Hexachlorobenzene	5.91	284	11776	1.03 ug/ml	90
75) Pentachlorophenol	6.05	266	2737	2.01 ug/ml	80
76) Phenanthrene	6.21	178	53538	1.00 ug/ml	97
77) Anthracene	6.25	178	49121	0.98 ug/ml	96
78) Carbazole	6.37	167	44832	1.09 ug/ml	93
79) Di-n-butylphthalate	6.61	149	45851	0.92 ug/ml	98
80) Fluoranthene	7.36	202	60033	0.97 ug/ml	92
82) 3,3-Dimethylbenzidine	8.02	212	8821	0.83 ug/ml	93
83) Benzidine	7.27	184	6989	1.75 ug/ml	89
84) Pyrene	7.36	202	60033	1.27 ug/ml	93
86) Butylbenzylphthalate	8.03	149	18893	1.29 ug/ml	96
87) Benzo[a]anthracene	8.76	228	69674	1.18 ug/ml	95
88) 3,3'-Dichlorobenzidine	8.73	252	8877	2.05 ug/ml	98
89) Chrysene	8.81	228	66443	1.18 ug/ml	96
90) Bis(2-ethylhexyl)phthalate	8.82	149	21840	1.32 ug/ml	82
92) Di-n-octylphthalate	9.92	149	23727	1.22 ug/ml	95
93) Benzo(b)fluoranthene	10.54	252	54053	1.72 ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181607.D Vial: 6
Acq On : 18 Sep 2016 1:12 pm Operator: JF
Sample : 1.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090C Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:15 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

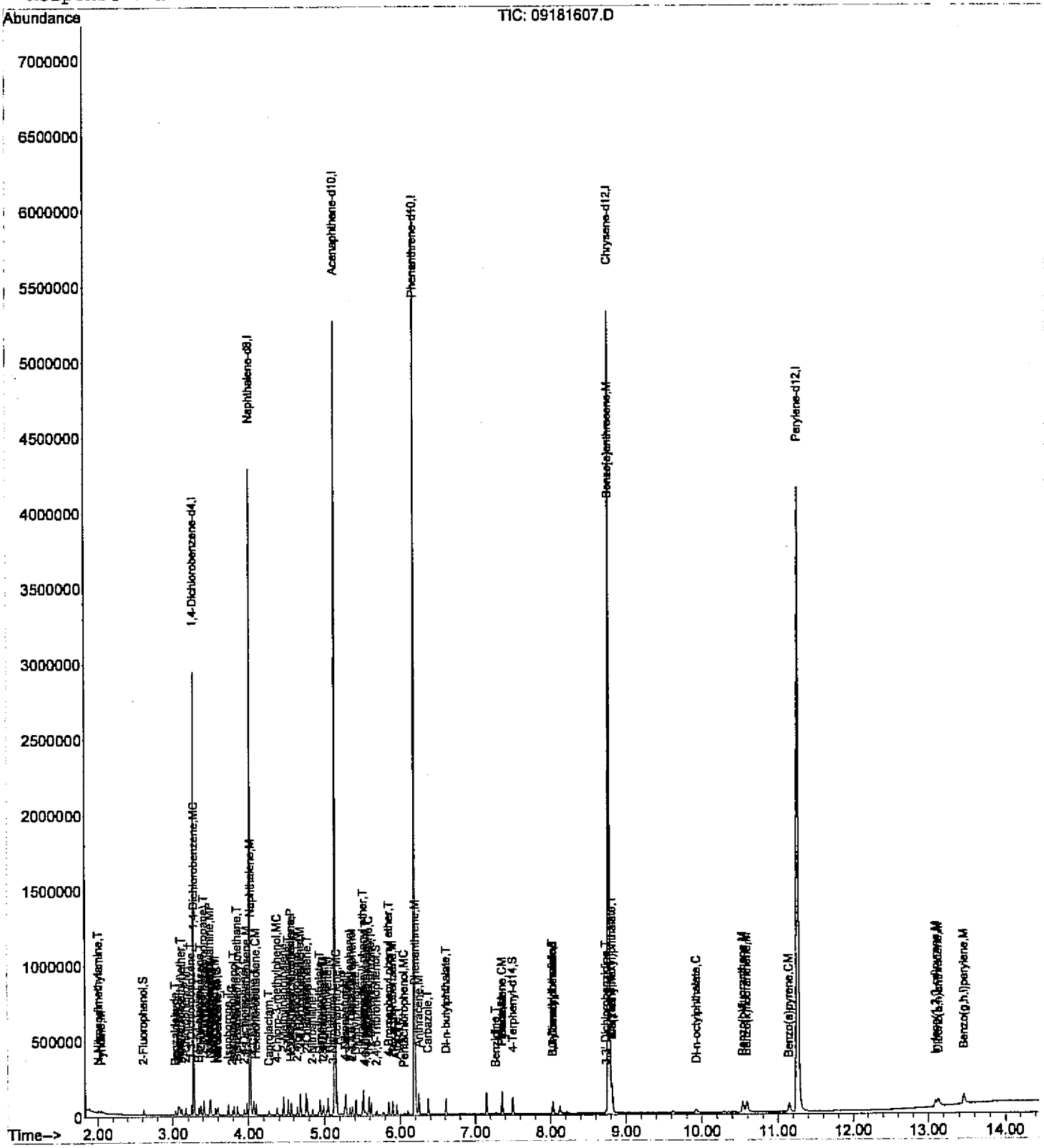
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.59	252	60110	1.52 ug/ml	97
95)	Benzo(a)pyrene	11.15	252	46289	1.61 ug/ml	96
96)	Indeno(1,2,3-cd)pyrene	13.10	276	32058m	1.44 ug/ml	
97)	Dibenz(a,h)anthracene	13.13	278	41338	1.11 ug/ml	91
98)	Benzo(g,h,i)perylene	13.46	276	51385	0.82 ug/ml	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181607.D Vial: 6
Acq On : 18 Sep 2016 1:12 pm Operator: JF
Sample : 1.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090C Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 8:56 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181608.D Vial: 7
Acq On : 18 Sep 2016 1:35 pm Operator: JF
Sample : 5.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090D Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:16 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	463287	40.00	ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1282972	40.00	ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	891575	40.00	ug/ml	-0.06
68) Phenanthrene-d10	6.19	188	1758301m	40.00	ug/ml	-0.10
81) Chrysene-d12	8.79	240	2476965	40.00	ug/ml	-0.15
91) Perylene-d12	11.28	264	2667887	40.00	ug/ml	-0.16
System Monitoring Compounds						
5) 2-Fluorophenol	2.61	112	41518	5.24	ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery	=	10.48%	
7) Phenol-d6	3.07	99	58986	5.22	ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery	=	10.44%	
25) Nitrobenzene-d5	3.59	82	57130	4.98	ug/ml	-0.03
Spiked Amount 50.000	Range 8 - 115		Recovery	=	9.96%	
48) 2-Fluorobiphenyl	4.68	172	134737	5.05	ug/ml	-0.06
Spiked Amount 50.000	Range 20 - 122		Recovery	=	10.10%#	
72) 2,4,6-Tribromophenol	5.69	330	23336	4.83	ug/ml	-0.08
Spiked Amount 50.000	Range 24 - 162		Recovery	=	9.66%#	
85) 4-Terphenyl-d14	7.51	244	213466	4.77	ug/ml	-0.13
Spiked Amount 50.000	Range 22 - 172		Recovery	=	9.54%#	

Target Compounds						Qvalue
2) 1,4-Dioxane	1.88	88	17539m	4.62	ug/ml	
3) Pyridine	2.03	79	48825	5.00	ug/ml	95
4) N-Nitrosodimethylamine	2.01	42	21052	5.36	ug/ml	81
6) Benzaldehyde	3.04	77	20221m	4.09	ug/ml	
8) Phenol	3.08	94	70174	6.13	ug/ml	83
9) Aniline	3.09	93	71253	5.11	ug/ml	65
10) Bis(2-chloroethyl)ether	3.12	93	52682	5.68	ug/ml	80
11) 2-Chlorophenol	3.17	128	49792	5.05	ug/ml	93
12) 1,3-Dichlorobenzene	3.25	146	55749	5.15	ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	58265	5.23	ug/ml	98
14) Benzyl alcohol	3.35	108	33368	5.22	ug/ml#	75
15) 1,2-Dichlorobenzene	3.37	146	55661	5.22	ug/ml	96
16) 2-Methylphenol	3.41	107	39818	4.93	ug/ml	91
17) 2,2'-Oxybis(1-chloropropan	3.41	45	61359	5.34	ug/ml	74
18) 3-Methylphenol	3.50	107	55313m	5.20	ug/ml	
19) 4-Methylphenol	3.50	107	55497m	5.18	ug/ml	
20) 3&4-Methylphenol	3.50	107	55502	5.17	ug/ml#	52
21) Acetophenone	3.49	105	75703	5.33	ug/ml	90
22) N-Nitrosodi-n-propylamine	3.49	70	37028	4.97	ug/ml	97
23) Hexachloroethane	3.56	117	20790	4.99	ug/ml	93
26) Nitrobenzene	3.60	123	27715	5.12	ug/ml#	78
27) Isophorone	3.73	82	97474	4.87	ug/ml	96
28) 2-Nitrophenol	3.79	139	27470m	4.84	ug/ml	
29) 2,4-Dimethylphenol	3.80	107	48486	4.91	ug/ml	87
30) Bis(2-chloroethoxy)methane	3.85	93	64705	5.04	ug/ml	98
31) Benzoic acid	3.85	122	26182	4.06	ug/ml#	79
32) 2,4-Dichlorophenol	3.94	162	45474	5.11	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.98	180	52048	4.99	ug/ml	97
34) Naphthalene	4.03	128	173756m	4.95	ug/ml	
35) 4-Chloroaniline	4.06	127	71902	5.11	ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181608.D Vial: 7
Acq On : 18 Sep 2016 1:35 pm Operator: JF
Sample : 5.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090D Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:16 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	45474	5.11 ug/ml	98
37) Hexachlorobutadiene	4.10	225	27456	4.88 ug/ml	98
38) Caprolactam	4.27	55	26137	5.22 ug/ml	78
39) 4-Chloro-3-methylphenol	4.37	107	47317	4.98 ug/ml	90
40) 2-Methylnaphthalene	4.46	142	124347	5.37 ug/ml	93
41) 1-Methylnaphthalene	4.53	142	117024	5.24 ug/ml	93
42) 1,1`-Biphenyl	4.76	154	155406	5.14 ug/ml	98
44) Hexachlorocyclopentadiene	4.56	237	7860	4.30 ug/ml	99
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	58006	4.94 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	35657	4.75 ug/ml	98
47) 2,4,5-Trichlorophenol	4.68	196	39057	4.65 ug/ml	100
49) 1,3-Dinitrobenzene	4.98	168	23194	4.89 ug/ml	98
50) 2-Chloronaphthalene	4.77	162	121095	4.96 ug/ml	95
51) 2-Nitroaniline	4.84	65	28355	4.77 ug/ml#	73
52) Dimethylphthalate	4.94	163	143272	5.01 ug/ml	100
53) 2,3,5,6-Tetrachlorophenol	5.34	232	34801	4.91 ug/ml	97
54) 2,3,4,6-Tetrachlorophenol	5.37	232	37770	4.95 ug/ml	97
55) Acenaphthylene	5.05	152	175959	4.91 ug/ml	98
56) 2,6-Dinitrotoluene	4.99	165	32893	4.98 ug/ml	74
57) 3-Nitroaniline	5.11	138	36726	5.01 ug/ml	84
58) Acenaphthene	5.17	154	126790	4.85 ug/ml	96
59) 2,4-Dinitrophenol	5.18	184	7335	4.55 ug/ml	90
60) Dibenzofuran	5.28	168	186445	5.30 ug/ml	96
61) 4-Nitrophenol	5.25	65	24809	6.23 ug/ml	86
62) 2,4-Dinitrotoluene	4.99	165	32893	4.98 ug/ml	74
63) Diethylphthalate	5.42	149	142888	5.15 ug/ml	99
64) Fluorene	5.51	166	152798	5.11 ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.51	204	71253	5.08 ug/ml	93
66) 4-Nitroaniline	5.53	138	41201	5.08 ug/ml#	31
67) Atrazine	5.97	200	35100	4.43 ug/ml	95
69) 4,6-Dinitro-2-methylphenol	5.55	198	23042	4.81 ug/ml	89
70) N-Nitrosodiphenylamine	5.59	169	130932	4.87 ug/ml	99
71) 1,2-Diphenylhydrazine	5.62	77	140585	4.82 ug/ml	95
73) 4-Bromophenyl phenyl ether	5.85	248	43870	4.96 ug/ml	94
74) Hexachlorobenzene	5.91	284	54389	4.89 ug/ml	92
75) Pentachlorophenol	6.06	266	22455	4.81 ug/ml	94
76) Phenanthrene	6.21	178	251031m	4.83 ug/ml	
77) Anthracene	6.25	178	243737	5.00 ug/ml	98
78) Carbazole	6.37	167	240820	5.05 ug/ml	93
79) Di-n-butylphthalate	6.62	149	259345	4.77 ug/ml	98
80) Fluoranthene	7.37	202	312111	5.18 ug/ml	92
82) 3,3-Dimethylbenzidine	8.03	212	86798	3.37 ug/ml	97
83) Benzidine	7.28	184	72620	3.70 ug/ml	96
84) Pyrene	7.37	202	312111	4.66 ug/ml	94
86) Butylbenzylphthalate	8.04	149	128592	4.50 ug/ml	93
87) Benzo[a]anthracene	8.77	228	350346	4.85 ug/ml	97
88) 3,3'-Dichlorobenzidine	8.74	252	71412	4.73 ug/ml	98
89) Chrysene	8.82	228	327390	4.96 ug/ml	97
90) Bis(2-ethylhexyl)phthalate	8.83	149	166212	4.53 ug/ml	83
92) Di-n-octylphthalate	9.94	149	220812	4.33 ug/ml	98
93) Benzo(b)fluoranthene	10.54	252	322645	4.78 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181608.D Vial: 7
Acq On : 18 Sep 2016 1:35 pm Operator: JF
Sample : 5.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090D Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:16 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

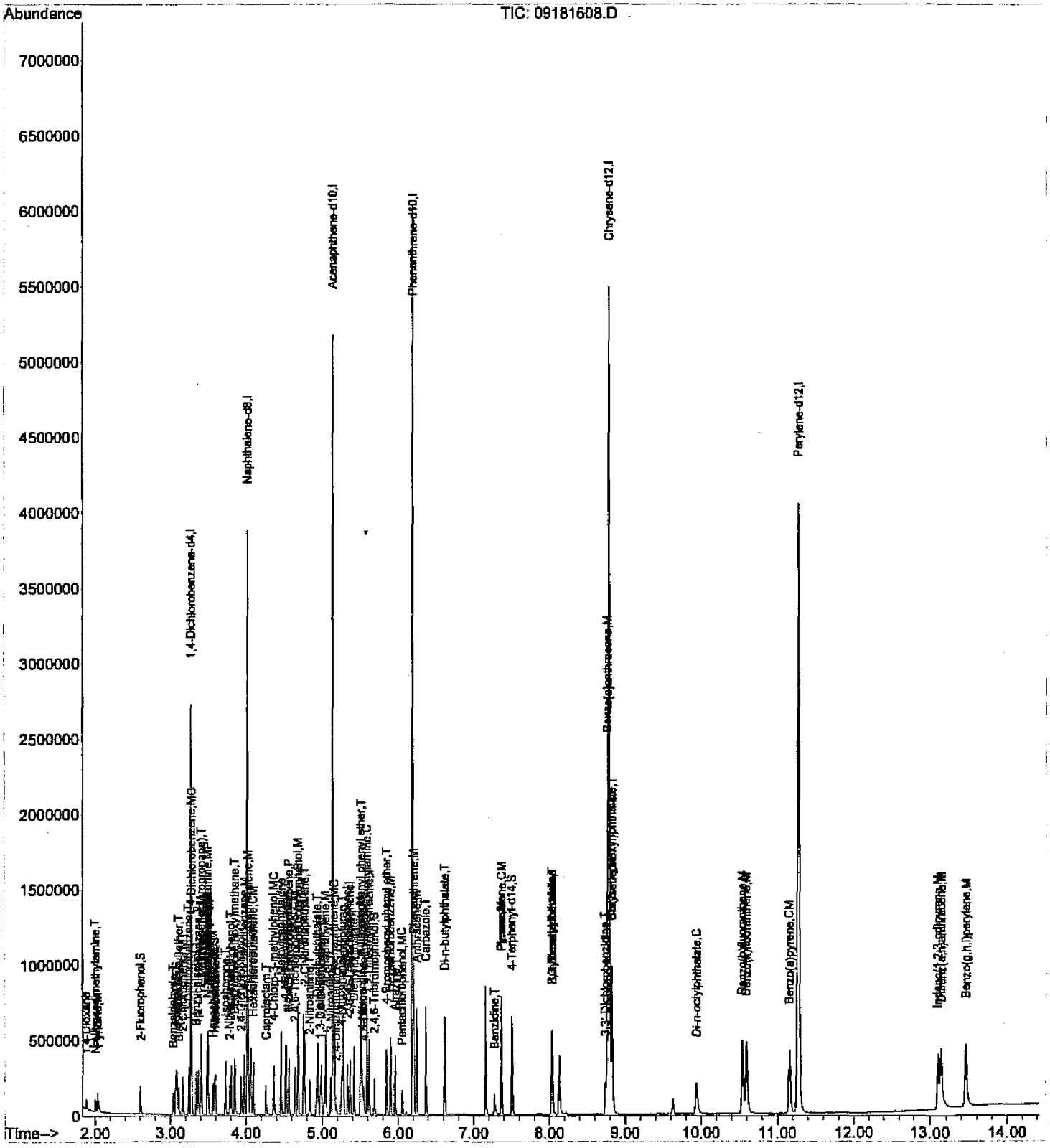
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.60	252	355125	4.94 ug/ml	96
95)	Benzo(a)pyrene	11.16	252	304606	4.68 ug/ml	96
96)	Indeno(1,2,3-cd)pyrene	13.10	276	235013m	4.19 ug/ml	
97)	Dibenz(a,h)anthracene	13.14	278	276973	4.25 ug/ml	93
98)	Benzo(g,h,i)perylene	13.46	276	298056	4.25 ug/ml	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181608.D Vial: 7
Acq On : 18 Sep 2016 1:35 pm Operator: JF
Sample : 5.0 ug/ml BNA Inst : SVMS5
Misc : 300.0090D Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 9:21 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181609.D Vial: 8
Acq On : 18 Sep 2016 1:58 pm Operator: JF
Sample : 10 ug/ml BNA Inst : SVMS5
Misc : 300.0090E Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:17 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	319540	40.00	ug/ml	-0.04
24) Naphthalene-d8	4.02	136	971357	40.00	ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	733806	40.00	ug/ml	-0.06
68) Phenanthrene-d10	6.21	188	1495046	40.00	ug/ml	-0.09
81) Chrysene-d12	8.80	240	2179147	40.00	ug/ml	-0.13
91) Perylene-d12	11.29	264	2485567	40.00	ug/ml	-0.15

System Monitoring Compounds						
5) 2-Fluorophenol	2.61	112	55658	10.19	ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery = 20.38%			
7) Phenol-d6	3.07	99	85011	11.11	ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery = 22.22%			
25) Nitrobenzene-d5	3.59	82	83710	9.36	ug/ml	-0.04
Spiked Amount 50.000	Range 8 - 115		Recovery = 18.72%			
48) 2-Fluorobiphenyl	4.69	172	216687	9.87	ug/ml	-0.05
Spiked Amount 50.000	Range 20 - 122		Recovery = 19.74%#			
72) 2,4,6-Tribromophenol	5.70	330	40609	9.45	ug/ml	-0.08
Spiked Amount 50.000	Range 24 - 162		Recovery = 18.90%#			
85) 4-Terphenyl-d14	7.52	244	368679	8.75	ug/ml	-0.12
Spiked Amount 50.000	Range 22 - 172		Recovery = 17.50%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.88	88	24943	10.77	ug/ml	83
3) Pyridine	2.03	79	66393	10.23	ug/ml	92
4) N-Nitrosodimethylamine	2.01	42	27230	10.94	ug/ml	79
6) Benzaldehyde	3.04	77	34980m	9.31	ug/ml	
8) Phenol	3.08	94	101130	13.11	ug/ml	80
9) Aniline	3.09	93	106146	11.35	ug/ml	65
10) Bis(2-chloroethyl)ether	3.11	93	72570	11.35	ug/ml	81
11) 2-Chlorophenol	3.17	128	70609	10.63	ug/ml	93
12) 1,3-Dichlorobenzene	3.25	146	75907	10.17	ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	76998	10.03	ug/ml	96
14) Benzyl alcohol	3.35	108	52042	11.80	ug/ml#	74
15) 1,2-Dichlorobenzene	3.37	146	76639	10.41	ug/ml	96
16) 2-Methylphenol	3.41	107	60635	11.29	ug/ml	92
17) 2,2'-Oxybis(1-chloropropan	3.41	45	88416	11.16	ug/ml	75
18) 3-Methylphenol	3.50	107	83226m	11.74	ug/ml	
19) 4-Methylphenol	3.50	107	83866m	11.82	ug/ml	
20) 3&4-Methylphenol	3.50	107	83873	11.76	ug/ml#	52
21) Acetophenone	3.49	105	112861	12.28	ug/ml	89
22) N-Nitrosodi-n-propylamine	3.49	70	57189	12.07	ug/ml	97
23) Hexachloroethane	3.56	117	28126	10.27	ug/ml	93
26) Nitrobenzene	3.60	123	41754	9.66	ug/ml#	75
27) Isophorone	3.73	82	156599	10.14	ug/ml	95
28) 2-Nitrophenol	3.79	139	42636m	9.05	ug/ml	
29) 2,4-Dimethylphenol	3.80	107	76934	9.71	ug/ml	90
30) Bis(2-chloroethoxy)methane	3.85	93	100280	10.22	ug/ml	97
31) Benzoic acid	3.85	122	50252	8.63	ug/ml	80
32) 2,4-Dichlorophenol	3.94	162	70591	9.75	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.98	180	76113	9.63	ug/ml	98
34) Naphthalene	4.03	128	254527m	9.95	ug/ml	
35) 4-Chloroaniline	4.06	127	114792	10.46	ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181609.D Vial: 8
Acq On : 18 Sep 2016 1:58 pm Operator: JF
Sample : 10 ug/ml BNA Inst : SVMS5
Misc : 300.0090E Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:17 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	70591	9.75 ug/ml	98
37) Hexachlorobutadiene	4.10	225	40445	9.34 ug/ml	98
38) Caprolactam	4.27	55	45796	11.43 ug/ml	77
39) 4-Chloro-3-methylphenol	4.37	107	78077	10.38 ug/ml	88
40) 2-Methylnaphthalene	4.46	142	194227	11.09 ug/ml	93
41) 1-Methylnaphthalene	4.53	142	181384	10.73 ug/ml	94
42) 1,1`-Biphenyl	4.76	154	248482	11.02 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	15076	6.61 ug/ml	96
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	89540	8.90 ug/ml	100
46) 2,4,6-Trichlorophenol	4.64	196	60846	9.23 ug/ml	99
47) 2,4,5-Trichlorophenol	4.68	196	66223m	9.12 ug/ml	
49) 1,3-Dinitrobenzene	4.98	168	41799	9.81 ug/ml	96
50) 2-Chloronaphthalene	4.78	162	193681	9.62 ug/ml	95
51) 2-Nitroaniline	4.84	65	51018	9.53 ug/ml#	76
52) Dimethylphthalate	4.95	163	241369	10.25 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.34	232	60876	9.81 ug/ml	99
54) 2,3,4,6-Tetrachlorophenol	5.37	232	64491	9.94 ug/ml	98
55) Acenaphthylene	5.05	152	288746	9.75 ug/ml	99
56) 2,6-Dinitrotoluene	5.00	165	57153	9.95 ug/ml	73
57) 3-Nitroaniline	5.11	138	65738	10.05 ug/ml	85
58) Acenaphthene	5.17	154	208800	9.71 ug/ml	98
59) 2,4-Dinitrophenol	5.19	184	22155	8.28 ug/ml	89
60) Dibenzofuran	5.28	168	306137	10.58 ug/ml	94
61) 4-Nitrophenol	5.25	65	46085	11.32 ug/ml	86
62) 2,4-Dinitrotoluene	5.00	165	57153	9.95 ug/ml	73
63) Diethylphthalate	5.42	149	246079	10.79 ug/ml	99
64) Fluorene	5.52	166	258211	10.49 ug/ml	96
65) 4-Chlorophenyl phenyl ethe	5.51	204	119639	10.03 ug/ml	92
66) 4-Nitroaniline	5.54	138	77568	11.12 ug/ml#	31
67) Atrazine	5.97	200	63905	9.72 ug/ml	96
69) 4,6-Dinitro-2-methylphenol	5.55	198	48187	9.48 ug/ml	93
70) N-Nitrosodiphenylamine	5.60	169	221057	9.37 ug/ml	99
71) 1,2-Diphenylhydrazine	5.62	77	237615	9.54 ug/ml	96
73) 4-Bromophenyl phenyl ether	5.87	248	76110	9.47 ug/ml	93
74) Hexachlorobenzene	5.91	284	92284	9.75 ug/ml	91
75) Pentachlorophenol	6.07	266	43792	8.92 ug/ml	96
76) Phenanthrene	6.22	178	427559	9.67 ug/ml	99
77) Anthracene	6.26	178	421288	10.16 ug/ml	98
78) Carbazole	6.38	167	420920	10.15 ug/ml	95
79) Di-n-butylphthalate	6.63	149	462649	9.89 ug/ml	98
80) Fluoranthene	7.38	202	555069	10.84 ug/ml	92
82) 3,3-Dimethylbenzidine	8.05	212	216631	8.25 ug/ml	96
83) Benzidine	7.29	184	187289	7.90 ug/ml	94
84) Pyrene	7.38	202	555069	8.93 ug/ml	94
86) Butylbenzylphthalate	8.06	149	244717	8.88 ug/ml	93
87) Benzo[a]anthracene	8.78	228	621346	9.50 ug/ml	97
88) 3,3'-Dichlorobenzidine	8.76	252	150074	8.99 ug/ml	96
89) Chrysene	8.84	228	572565	9.66 ug/ml	97
90) Bis(2-ethylhexyl)phthalate	8.84	149	318085	8.87 ug/ml	82
92) Di-n-octylphthalate	9.95	149	479276	8.63 ug/ml	98
93) Benzo(b)fluoranthene	10.55	252	621958	8.72 ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181609.D Vial: 8
Acq On : 18 Sep 2016 1:58 pm Operator: JF
Sample : 10 ug/ml BNA Inst : SVMS5
Misc : 300.0090E Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:17 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

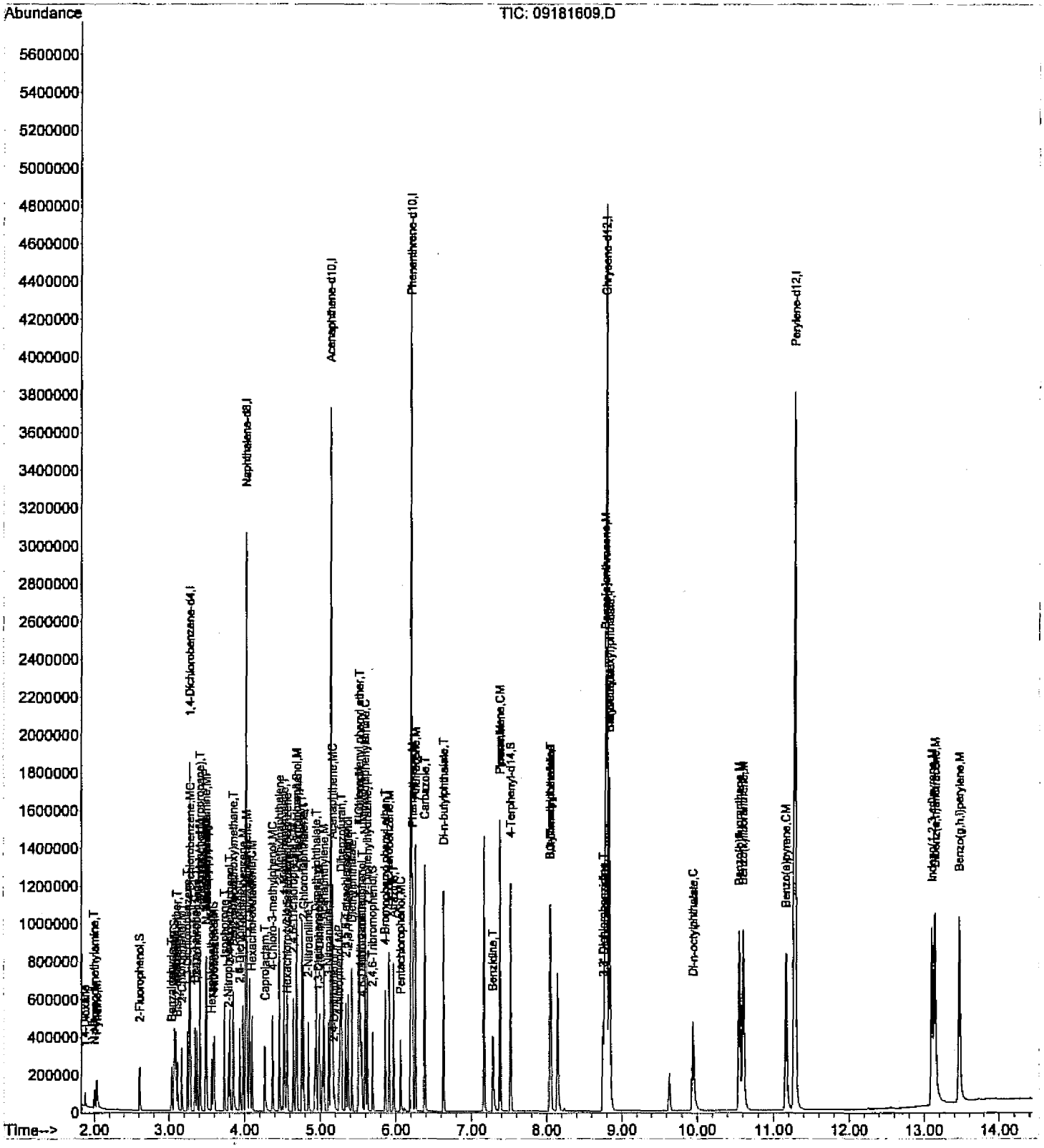
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.61	252	663018	9.07 ug/ml	96
95)	Benzo(a)pyrene	11.17	252	607600	8.81 ug/ml	96
96)	Indeno(1,2,3-cd)pyrene	13.10	276	558236m	9.11 ug/ml	
97)	Dibenz(a,h)anthracene	13.15	278	617702	9.39 ug/ml	93
98)	Benzo(g,h,i)perylene	13.47	276	655235	9.86 ug/ml	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181609.D Vial: 8
Acq On : 18 Sep 2016 1:58 pm Operator: JF
Sample : 10 ug/ml BNA Inst : SVMS5
Misc : 300.0090E Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 9:21 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181610.D Vial: 9
Acq On : 18 Sep 2016 2:21 pm Operator: JF
Sample : 20ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:18 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	561883	40.00	ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1510627	40.00	ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	1028487	40.00	ug/ml	-0.06
68) Phenanthrene-d10	6.19	188	1905104m	40.00	ug/ml	-0.11
81) Chrysene-d12	8.77	240	2286412	40.00	ug/ml	-0.16
91) Perylene-d12	11.27	264	1996921	40.00	ug/ml	-0.16

System Monitoring Compounds						
5) 2-Fluorophenol	2.61	112	204503	21.30	ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery = 42.60%			
7) Phenol-d6	3.07	99	292365	21.92	ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery = 43.84%			
25) Nitrobenzene-d5	3.59	82	280409	19.82	ug/ml	-0.04
Spiked Amount 50.000	Range 8 - 115		Recovery = 39.64%			
48) 2-Fluorobiphenyl	4.69	172	640525	20.81	ug/ml	-0.05
Spiked Amount 50.000	Range 20 - 122		Recovery = 41.62%			
72) 2,4,6-Tribromophenol	5.68	330	113640	20.24	ug/ml	-0.09
Spiked Amount 50.000	Range 24 - 162		Recovery = 40.48%			
85) 4-Terphenyl-d14	7.49	244	891147	19.33	ug/ml	-0.15
Spiked Amount 50.000	Range 22 - 172		Recovery = 38.66%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.89	88	82560	21.32	ug/ml	90
3) Pyridine	2.03	79	227470	20.29	ug/ml	91
4) N-Nitrosodimethylamine	2.01	42	88441	21.06	ug/ml#	73
6) Benzaldehyde	3.04	77	148461	21.60	ug/ml	83
8) Phenol	3.08	94	330671	24.61	ug/ml	82
9) Aniline	3.09	93	340720	20.95	ug/ml	65
10) Bis(2-chloroethyl)ether	3.12	93	236312	21.02	ug/ml	82
11) 2-Chlorophenol	3.17	128	240739	20.82	ug/ml	93
12) 1,3-Dichlorobenzene	3.25	146	259857	19.79	ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	267137	19.78	ug/ml	94
14) Benzyl alcohol	3.35	108	169008	21.79	ug/ml#	75
15) 1,2-Dichlorobenzene	3.37	146	256092	19.79	ug/ml	96
16) 2-Methylphenol	3.41	107	199644	21.43	ug/ml	94
17) 2,2'-Oxybis(1-chloropropan	3.41	45	275206	19.75	ug/ml	76
18) 3-Methylphenol	3.50	107	264247m	21.47	ug/ml	
19) 4-Methylphenol	3.50	107	264247m	21.49	ug/ml	
20) 3&4-Methylphenol	3.50	107	265204m	21.44	ug/ml	
21) Acetophenone	3.50	105	343517	21.75	ug/ml	89
22) N-Nitrosodi-n-propylamine	3.49	70	181604	22.40	ug/ml	95
23) Hexachloroethane	3.57	117	96173	20.43	ug/ml	96
26) Nitrobenzene	3.60	123	134065	19.37	ug/ml#	75
27) Isophorone	3.73	82	482935	19.94	ug/ml	94
28) 2-Nitrophenol	3.79	139	146840m	19.02	ug/ml	
29) 2,4-Dimethylphenol	3.80	107	247372	19.51	ug/ml	87
30) Bis(2-chloroethoxy)methane	3.85	93	303410	19.80	ug/ml	96
31) Benzoic acid	3.86	122	158200	16.36	ug/ml#	76
32) 2,4-Dichlorophenol	3.94	162	224517	19.20	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.98	180	246140	20.04	ug/ml	98
34) Naphthalene	4.03	128	773199	19.81	ug/ml	96
35) 4-Chloroaniline	4.06	127	343976	19.90	ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181610.D Vial: 9
Acq On : 18 Sep 2016 2:21 pm Operator: JF
Sample : 20ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:18 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	224517	19.20 ug/ml	98
37) Hexachlorobutadiene	4.10	225	128339	18.88 ug/ml	97
38) Caprolactam	4.27	55	125137	19.70 ug/ml	80
39) 4-Chloro-3-methylphenol	4.37	107	229995	19.31 ug/ml	87
40) 2-Methylnaphthalene	4.46	142	575085	21.11 ug/ml	94
41) 1-Methylnaphthalene	4.53	142	543550	20.67 ug/ml	92
42) 1,1`-Biphenyl	4.76	154	716484	20.55 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	67157	15.43 ug/ml	98
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	274048	18.96 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	180025	18.86 ug/ml	98
47) 2,4,5-Trichlorophenol	4.68	196	195769	18.76 ug/ml	99
49) 1,3-Dinitrobenzene	4.98	168	117637	18.94 ug/ml	95
50) 2-Chloronaphthalene	4.77	162	560493	19.84 ug/ml	96
51) 2-Nitroaniline	4.84	65	150171	19.19 ug/ml#	74
52) Dimethylphthalate	4.95	163	646643	19.58 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.34	232	167786	18.76 ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.37	232	177359	19.23 ug/ml	99
55) Acenaphthylene	5.05	152	812817	19.53 ug/ml	99
56) 2,6-Dinitrotoluene	4.99	165	160858	19.45 ug/ml	72
57) 3-Nitroaniline	5.11	138	181731	19.12 ug/ml#	80
58) Acenaphthene	5.16	154	574956	19.08 ug/ml	96
59) 2,4-Dinitrophenol	5.18	184	68405	14.46 ug/ml	87
60) Dibenzofuran	5.28	168	829871	20.46 ug/ml	94
61) 4-Nitrophenol	5.24	65	119030	19.02 ug/ml	82
62) 2,4-Dinitrotoluene	4.99	165	160858	19.45 ug/ml	72
63) Diethylphthalate	5.42	149	646963	20.23 ug/ml	99
64) Fluorene	5.51	166	696058	20.17 ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.51	204	322517	18.99 ug/ml	94
66) 4-Nitroaniline	5.53	138	198632	19.99 ug/ml#	30
67) Atrazine	5.96	200	166712	18.96 ug/ml	96
69) 4,6-Dinitro-2-methylphenol	5.55	198	126586	17.83 ug/ml	93
70) N-Nitrosodiphenylamine	5.59	169	600240	19.63 ug/ml	99
71) 1,2-Diphenylhydrazine	5.61	77	634025	19.93 ug/ml	94
73) 4-Bromophenyl phenyl ether	5.85	248	204455	19.28 ug/ml	93
74) Hexachlorobenzene	5.90	284	238437	19.77 ug/ml	92
75) Pentachlorophenol	6.05	266	119871	17.29 ug/ml	95
76) Phenanthrene	6.21	178	1058449m	18.79 ug/ml	
77) Anthracene	6.24	178	1070706	20.26 ug/ml	99
78) Carbazole	6.37	167	1041819	19.51 ug/ml	95
79) Di-n-butylphthalate	6.61	149	1183589	19.74 ug/ml	98
80) Fluoranthene	7.35	202	1316373m	20.17 ug/ml	
82) 3,3-Dimethylbenzidine	8.02	212	595290m	19.09 ug/ml	
83) Benzidine	7.26	184	492104	17.79 ug/ml	94
84) Pyrene	7.35	202	1318368	19.63 ug/ml	94
86) Butylbenzylphthalate	8.03	149	577106	19.03 ug/ml	93
87) Benzo[a]anthracene	8.76	228	1324104	19.01 ug/ml	96
88) 3,3'-Dichlorobenzidine	8.73	252	336877	17.35 ug/ml	97
89) Chrysene	8.81	228	1209504	19.23 ug/ml	97
90) Bis(2-ethylhexyl)phthalate	8.82	149	745306	18.78 ug/ml	82
92) Di-n-octylphthalate	9.93	149	1131784	21.26 ug/ml	99
93) Benzo(b)fluoranthene	10.54	252	1175979	19.01 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181610.D Vial: 9
Acq On : 18 Sep 2016 2:21 pm Operator: JF
Sample : 20ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:18 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

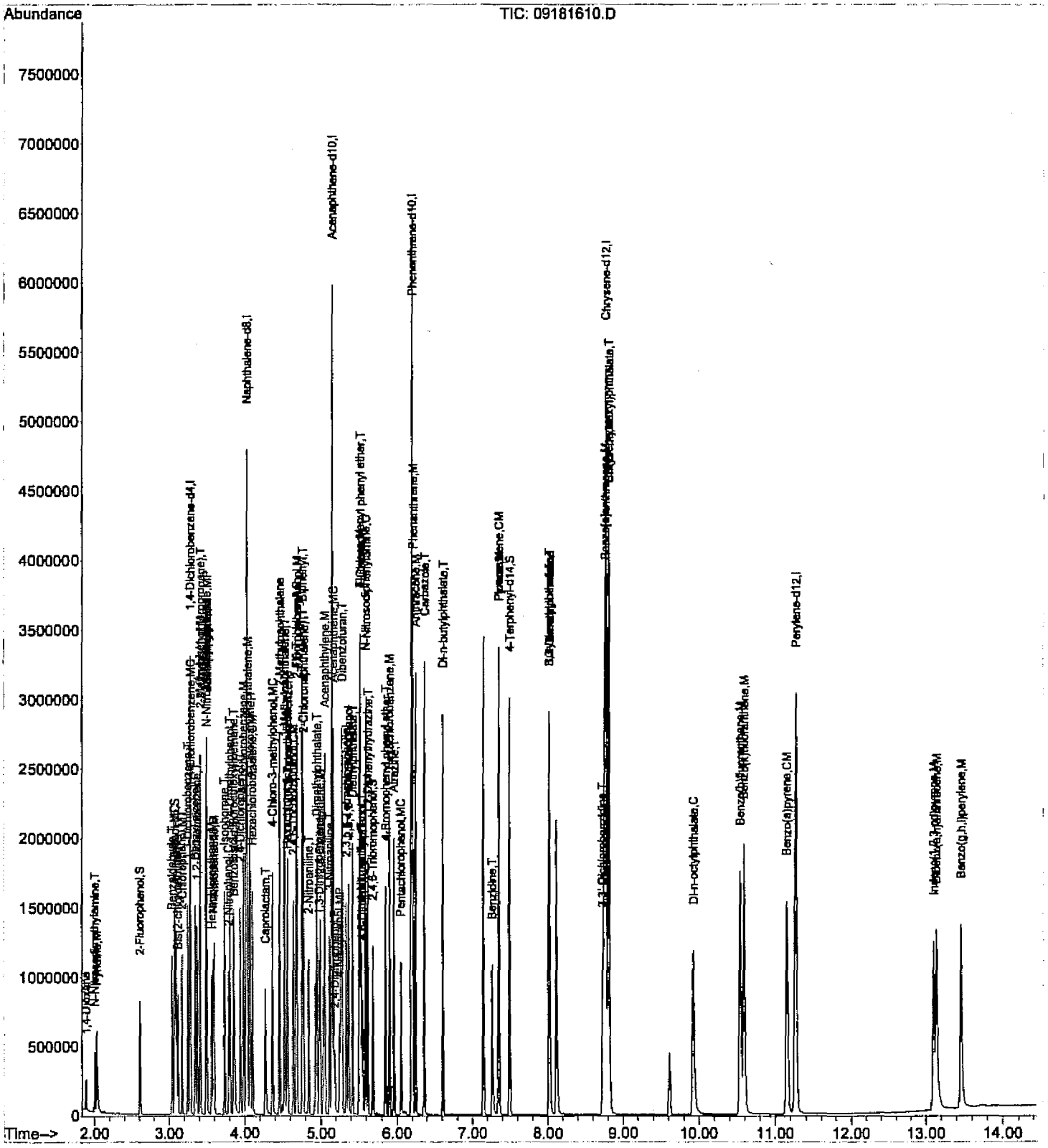
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.59	252	1204230	19.45 ug/ml	97
95)	Benzo(a)pyrene	11.15	252	1071029	18.07 ug/ml	95
96)	Indeno(1,2,3-cd)pyrene	13.10	276	963891m	18.42 ug/ml	
97)	Dibenz(a,h)anthracene	13.14	278	829579m	15.31 ug/ml	
98)	Benzo(g,h,i)perylene	13.46	276	844429m	15.75 ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181610.D Vial: 9
Acq On : 18 Sep 2016 2:21 pm Operator: JF
Sample : 20ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 9:45 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181611.D Vial: 10
Acq On : 18 Sep 2016 2:45 pm Operator: JF
Sample : 40 ug/ml BNA Inst : SVMS5
Misc : 300.0090G Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:19 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	508794	40.00	ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1382710	40.00	ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	957447	40.00	ug/ml	-0.07
68) Phenanthrene-d10	6.18	188	1844051m	40.00	ug/ml	-0.11
81) Chrysene-d12	8.78	240	2438470	40.00	ug/ml	-0.15
91) Perylene-d12	11.27	264	2507598	40.00	ug/ml	-0.16

System Monitoring Compounds

5) 2-Fluorophenol	2.61	112	372208	42.81	ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery = 85.62%#			
7) Phenol-d6	3.07	99	547099	45.50	ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery = 91.00%#			
25) Nitrobenzene-d5	3.59	82	519884	39.85	ug/ml	-0.03
Spiked Amount 50.000	Range 8 - 115		Recovery = 79.70%			
48) 2-Fluorobiphenyl	4.68	172	1212292	42.31	ug/ml	-0.06
Spiked Amount 50.000	Range 20 - 122		Recovery = 84.62%			
72) 2,4,6-Tribromophenol	5.68	330	218858	39.85	ug/ml	-0.09
Spiked Amount 50.000	Range 24 - 162		Recovery = 79.70%			
85) 4-Terphenyl-d14	7.49	244	1907593	38.15	ug/ml	-0.15
Spiked Amount 50.000	Range 22 - 172		Recovery = 76.30%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.88	88	135121	39.49	ug/ml	91
3) Pyridine	2.03	79	425121	42.28	ug/ml	92
4) N-Nitrosodimethylamine	2.01	42	161859	43.60	ug/ml#	71
6) Benzaldehyde	3.04	77	278412m	44.06	ug/ml	
8) Phenol	3.08	94	616309	50.95	ug/ml	81
9) Aniline	3.09	93	628796	42.99	ug/ml#	73
10) Bis(2-chloroethyl)ether	3.12	93	434095	42.63	ug/ml	81
11) 2-Chlorophenol	3.17	128	452232	43.44	ug/ml	92
12) 1,3-Dichlorobenzene	3.25	146	463799	39.01	ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	477990	39.09	ug/ml	94
14) Benzyl alcohol	3.35	108	325755	46.39	ug/ml#	73
15) 1,2-Dichlorobenzene	3.37	146	468642	39.99	ug/ml	96
16) 2-Methylphenol	3.41	107	370068	44.21	ug/ml	93
17) 2,2'-Oxybis(1-chloropropan	3.41	45	485198m	38.45	ug/ml	
18) 3-Methylphenol	3.50	107	493107m	44.61	ug/ml	
19) 4-Methylphenol	3.50	107	493107m	44.70	ug/ml	
20) 3&4-Methylphenol	3.50	107	493107m	44.41	ug/ml	
21) Acetophenone	3.50	105	631039m	44.80	ug/ml	
22) N-Nitrosodi-n-propylamine	3.49	70	335359m	46.47	ug/ml	
23) Hexachloroethane	3.57	117	176582	41.94	ug/ml	96
26) Nitrobenzene	3.60	123	256165	39.86	ug/ml#	71
27) Isophorone	3.74	82	911044	40.92	ug/ml	94
28) 2-Nitrophenol	3.79	139	286429	39.58	ug/ml	72
29) 2,4-Dimethylphenol	3.80	107	481455	40.89	ug/ml	89
30) Bis(2-chloroethoxy)methane	3.85	93	577583	41.10	ug/ml	95
31) Benzoic acid	3.87	122	364323	39.54	ug/ml	77
32) 2,4-Dichlorophenol	3.94	162	438352	40.17	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.98	180	461374	41.03	ug/ml	98
34) Naphthalene	4.03	128	1441858	40.76	ug/ml	91
35) 4-Chloroaniline	4.06	127	657288	41.24	ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181611.D Vial: 10
Acq On : 18 Sep 2016 2:45 pm Operator: JF
Sample : 40 ug/ml BNA Inst : SVMS5
Misc : 300.0090G Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:19 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	438352	40.17 ug/ml	98
37) Hexachlorobutadiene	4.10	225	242031	38.73 ug/ml	99
38) Caprolactam	4.28	55	257095	43.60 ug/ml	80
39) 4-Chloro-3-methylphenol	4.37	107	463055	41.99 ug/ml	89
40) 2-Methylnaphthalene	4.46	142	1088035	43.63 ug/ml	94
41) 1-Methylnaphthalene	4.53	142	1029347	42.76 ug/ml	92
42) 1,1`-Biphenyl	4.76	154	1348221	42.39 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	150467	33.53 ug/ml	99
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	528661	38.84 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	361500	40.02 ug/ml	98
47) 2,4,5-Trichlorophenol	4.68	196	392710m	39.91 ug/ml	
49) 1,3-Dinitrobenzene	4.98	168	238440	40.35 ug/ml	94
50) 2-Chloronaphthalene	4.77	162	1062455	40.39 ug/ml	95
51) 2-Nitroaniline	4.84	65	306056	41.13 ug/ml#	73
52) Dimethylphthalate	4.95	163	1257824	40.92 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.33	232	346228	40.92 ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.36	232	358324	41.38 ug/ml	99
55) Acenaphthylene	5.05	152	1568388	40.42 ug/ml	99
56) 2,6-Dinitrotoluene	4.99	165	319425	40.90 ug/ml	73
57) 3-Nitroaniline	5.11	138	370718	41.04 ug/ml#	79
58) Acenaphthene	5.16	154	1154597	41.17 ug/ml	99
59) 2,4-Dinitrophenol	5.18	184	180036	35.12 ug/ml	91
60) Dibenzofuran	5.28	168	1616427	42.81 ug/ml	95
61) 4-Nitrophenol	5.24	65	269690	43.16 ug/ml	83
62) 2,4-Dinitrotoluene	4.99	165	319425	40.90 ug/ml	73
63) Diethylphthalate	5.41	149	1273809	42.79 ug/ml	99
64) Fluorene	5.51	166	1362669	42.41 ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.50	204	643906	40.36 ug/ml	93
66) 4-Nitroaniline	5.53	138	395794	42.34 ug/ml#	31
67) Atrazine	5.96	200	303426m	45.52 ug/ml	
69) 4,6-Dinitro-2-methylphenol	5.54	198	287741	39.69 ug/ml	91
70) N-Nitrosodiphenylamine	5.58	169	1184354	39.69 ug/ml	99
71) 1,2-Diphenylhydrazine	5.61	77	1232455	39.98 ug/ml	94
73) 4-Bromophenyl phenyl ether	5.85	248	409907	39.28 ug/ml	92
74) Hexachlorobenzene	5.90	284	472790	40.51 ug/ml	91
75) Pentachlorophenol	6.05	266	272064	38.34 ug/ml	96
76) Phenanthrene	6.20	178	2146362m	39.36 ug/ml	
77) Anthracene	6.24	178	2145129	41.94 ug/ml	100
78) Carbazole	6.36	167	2144225	41.24 ug/ml	96
79) Di-n-butylphthalate	6.61	149	2403549	41.28 ug/ml	98
80) Fluoranthene	7.35	202	2752171	43.57 ug/ml	91
82) 3,3-Dimethylbenzidine	8.02	212	1582442	40.42 ug/ml	98
83) Benzidine	7.26	184	1228604m	41.55 ug/ml	
84) Pyrene	7.35	202	2752171	37.97 ug/ml	95
86) Butylbenzylphthalate	8.03	149	1283838	38.88 ug/ml	93
87) Benzo[a]anthracene	8.76	228	2994570	40.01 ug/ml	96
88) 3,3'-Dichlorobenzidine	8.73	252	900845	40.98 ug/ml	97
89) Chrysene	8.82	228	2746847	40.71 ug/ml	96
90) Bis(2-ethylhexyl)phthalate	8.82	149	1720103	39.68 ug/ml	80
92) Di-n-octylphthalate	9.93	149	3057498	38.95 ug/ml	99
93) Benzo(b)fluoranthene	10.55	252	3109399	38.81 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181611.D Vial: 10
Acq On : 18 Sep 2016 2:45 pm Operator: JF
Sample : 40 ug/ml BNA Inst : SVMS5
Misc : 300.0090G Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:19 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

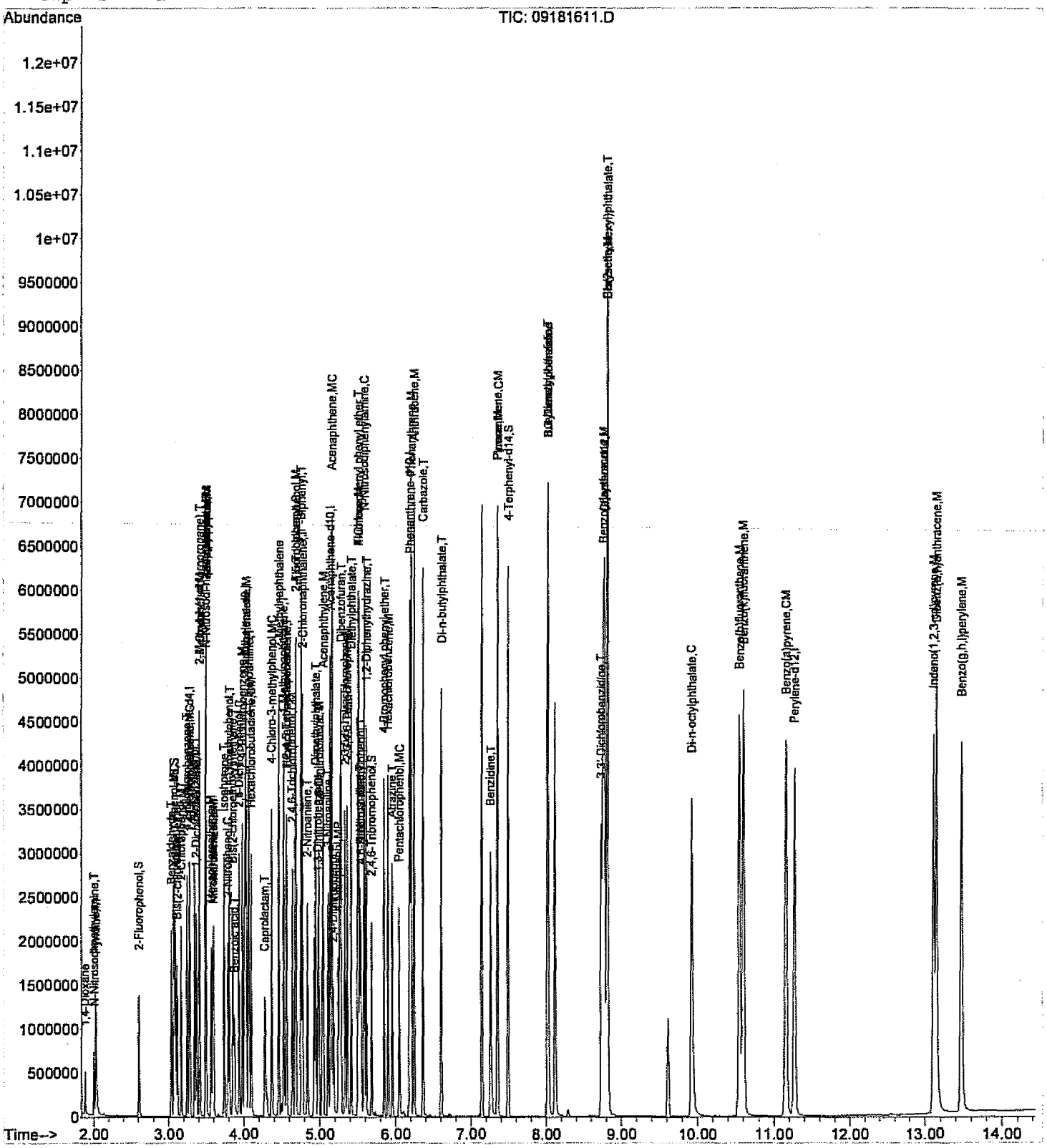
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.60	252	3118568	39.24 ug/ml	96
95)	Benzo(a)pyrene	11.16	252	3054557	39.68 ug/ml	96
96)	Indeno(1,2,3-cd)pyrene	13.11	276	2561852	37.86 ug/ml	90
97)	Dibenz(a,h)anthracene	13.15	278	2742453m	39.39 ug/ml	
98)	Benzo(g,h,i)perylene	13.47	276	2596038m	38.39 ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181611.D Vial: 10
Acq On : 18 Sep 2016 2:45 pm Operator: JF
Sample : 40 ug/ml BNA Inst : SVMS5
Misc : 300.0090G Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 9:42 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181612.D Vial: 11
Acq On : 18 Sep 2016 3:08 pm Operator: JF
Sample : 50 ug/ml BNA Inst : SVMS5
Misc : 300.0090H Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:20 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	541655	40.00	ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1414253	40.00	ug/ml	-0.04
43) Acenaphthene-d10	5.14	164	992260	40.00	ug/ml	-0.06
68) Phenanthrene-d10	6.19	188	1885287m	40.00	ug/ml	-0.10
81) Chrysene-d12	8.79	240	2543261	40.00	ug/ml	-0.14
91) Perylene-d12	11.28	264	2650735	40.00	ug/ml	-0.15

System Monitoring Compounds						
5) 2-Fluorophenol	2.61	112	476599	51.49	ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery = 102.98%#			
7) Phenol-d6	3.07	99	694680	54.31	ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery = 108.62%#			
25) Nitrobenzene-d5	3.59	82	669176	50.07	ug/ml	-0.03
Spiked Amount 50.000	Range 8 - 115		Recovery = 100.14%			
48) 2-Fluorobiphenyl	4.69	172	1547400	52.10	ug/ml	-0.05
Spiked Amount 50.000	Range 20 - 122		Recovery = 104.20%			
72) 2,4,6-Tribromophenol	5.69	330	281824	50.08	ug/ml	-0.08
Spiked Amount 50.000	Range 24 - 162		Recovery = 100.16%			
85) 4-Terphenyl-d14	7.51	244	2436418	46.58	ug/ml	-0.13
Spiked Amount 50.000	Range 22 - 172		Recovery = 93.16%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.88	88	168289	46.40	ug/ml	92
3) Pyridine	2.03	79	542060	50.72	ug/ml	92
4) N-Nitrosodimethylamine	2.01	42	202485	51.41	ug/ml#	70
6) Benzaldehyde	3.04	77	340361	50.51	ug/ml	83
8) Phenol	3.08	94	787625	61.21	ug/ml	80
9) Aniline	3.09	93	786528	50.56	ug/ml#	75
10) Bis(2-chloroethyl)ether	3.12	93	546276	50.40	ug/ml	80
11) 2-Chlorophenol	3.17	128	572337	51.69	ug/ml	92
12) 1,3-Dichlorobenzene	3.25	146	591376	46.73	ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	605251	46.50	ug/ml	94
14) Benzyl alcohol	3.35	108	420993	56.31	ug/ml#	73
15) 1,2-Dichlorobenzene	3.37	146	594715	47.67	ug/ml	96
16) 2-Methylphenol	3.41	107	475381	53.42	ug/ml	94
17) 2,2'-Oxybis(1-chloropropan	3.41	45	605801	45.09	ug/ml	74
18) 3-Methylphenol	3.50	107	622837m	52.99	ug/ml	
19) 4-Methylphenol	3.50	107	622837m	53.11	ug/ml	
20) 3&4-Methylphenol	3.50	107	629366	53.31	ug/ml#	57
21) Acetophenone	3.50	105	791990	52.93	ug/ml	90
22) N-Nitrosodi-n-propylamine	3.49	70	418730	54.63	ug/ml	93
23) Hexachloroethane	3.57	117	223978	50.07	ug/ml	96
26) Nitrobenzene	3.60	123	326038	49.47	ug/ml#	70
27) Isophorone	3.74	82	1163049	51.03	ug/ml	94
28) 2-Nitrophenol	3.79	139	363524	48.91	ug/ml	72
29) 2,4-Dimethylphenol	3.81	107	608411	50.39	ug/ml	87
30) Bis(2-chloroethoxy)methane	3.86	93	732010	50.90	ug/ml	95
31) Benzoic acid	3.88	122	487822	51.43	ug/ml	78
32) 2,4-Dichlorophenol	3.94	162	568144	50.71	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.98	180	591270	51.41	ug/ml	97
34) Naphthalene	4.03	128	1805794	50.00	ug/ml	91
35) 4-Chloroaniline	4.06	127	831932	50.96	ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181612.D Vial: 11
Acq On : 18 Sep 2016 3:08 pm Operator: JF
Sample : 50 ug/ml BNA Inst : SVMS5
Misc : 300.0090H Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:20 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	568144	50.71 ug/ml	98
37) Hexachlorobutadiene	4.10	225	308390	48.20 ug/ml	98
38) Caprolactam	4.29	55	331369m	54.82 ug/ml	
39) 4-Chloro-3-methylphenol	4.37	107	593506	52.52 ug/ml	88
40) 2-Methylnaphthalene	4.46	142	1381865	54.17 ug/ml	94
41) 1-Methylnaphthalene	4.53	142	1279024	51.94 ug/ml	93
42) 1,1`-Biphenyl	4.76	154	1694180	52.11 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	200508	42.39 ug/ml	99
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	670749	47.46 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	459204	48.93 ug/ml	97
47) 2,4,5-Trichlorophenol	4.68	196	505934	49.51 ug/ml	99
49) 1,3-Dinitrobenzene	4.98	168	313816	51.04 ug/ml	92
50) 2-Chloronaphthalene	4.78	162	1326350	48.65 ug/ml	96
51) 2-Nitroaniline	4.84	65	387531	50.08 ug/ml#	73
52) Dimethylphthalate	4.95	163	1617591	50.78 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.34	232	443220	50.41 ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.37	232	455674	50.71 ug/ml	99
55) Acenaphthylene	5.05	152	2002976	49.80 ug/ml	99
56) 2,6-Dinitrotoluene	5.00	165	402830	49.66 ug/ml	74
57) 3-Nitroaniline	5.12	138	475823	50.66 ug/ml#	79
58) Acenaphthene	5.17	154	1466507	50.45 ug/ml	99
59) 2,4-Dinitrophenol	5.18	184	248024	45.65 ug/ml	90
60) Dibenzofuran	5.28	168	2010252	51.37 ug/ml	96
61) 4-Nitrophenol	5.25	65	347397	53.11 ug/ml	83
62) 2,4-Dinitrotoluene	5.00	165	402830	49.66 ug/ml	74
63) Diethylphthalate	5.42	149	1599572	51.85 ug/ml	99
64) Fluorene	5.52	166	1730230	51.96 ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.51	204	820101	49.52 ug/ml	93
66) 4-Nitroaniline	5.54	138	508712	52.42 ug/ml#	30
67) Atrazine	5.97	200	317983	46.39 ug/ml	96
69) 4,6-Dinitro-2-methylphenol	5.55	198	374790	50.12 ug/ml	91
70) N-Nitrosodiphenylamine	5.60	169	1489697	48.77 ug/ml	98
71) 1,2-Diphenylhydrazine	5.62	77	1537849	48.79 ug/ml	92
73) 4-Bromophenyl phenyl ether	5.85	248	525018	49.05 ug/ml	92
74) Hexachlorobenzene	5.91	284	601377	50.39 ug/ml	91
75) Pentachlorophenol	6.05	266	345600	47.24 ug/ml	98
76) Phenanthrene	6.21	178	2706633m	48.55 ug/ml	
77) Anthracene	6.25	178	2721490	52.04 ug/ml	99
78) Carbazole	6.37	167	2695465	50.66 ug/ml	96
79) Di-n-butylphthalate	6.62	149	3043601	51.10 ug/ml	98
80) Fluoranthene	7.37	202	3521642	54.53 ug/ml	91
82) 3,3-Dimethylbenzidine	8.03	212	2079195	48.34 ug/ml	97
83) Benzidine	7.28	184	1557441	51.22 ug/ml	95
84) Pyrene	7.37	202	3521642	46.48 ug/ml	94
86) Butylbenzylphthalate	8.04	149	1641102	47.49 ug/ml	92
87) Benzo[a]anthracene	8.77	228	3859861	49.38 ug/ml	96
88) 3,3'-Dichlorobenzidine	8.74	252	1182238	51.14 ug/ml	96
89) Chrysene	8.83	228	3474312	49.32 ug/ml	96
90) Bis(2-ethylhexyl)phthalate	8.83	149	2186472	48.18 ug/ml	80
92) Di-n-octylphthalate	9.94	149	4020865m	45.90 ug/ml	
93) Benzo(b)fluoranthene	10.56	252	4084139	47.96 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181612.D Vial: 11
Acq On : 18 Sep 2016 3:08 pm Operator: JF
Sample : 50 ug/ml BNA Inst : SVMS5
Misc : 300.0090H Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:20 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

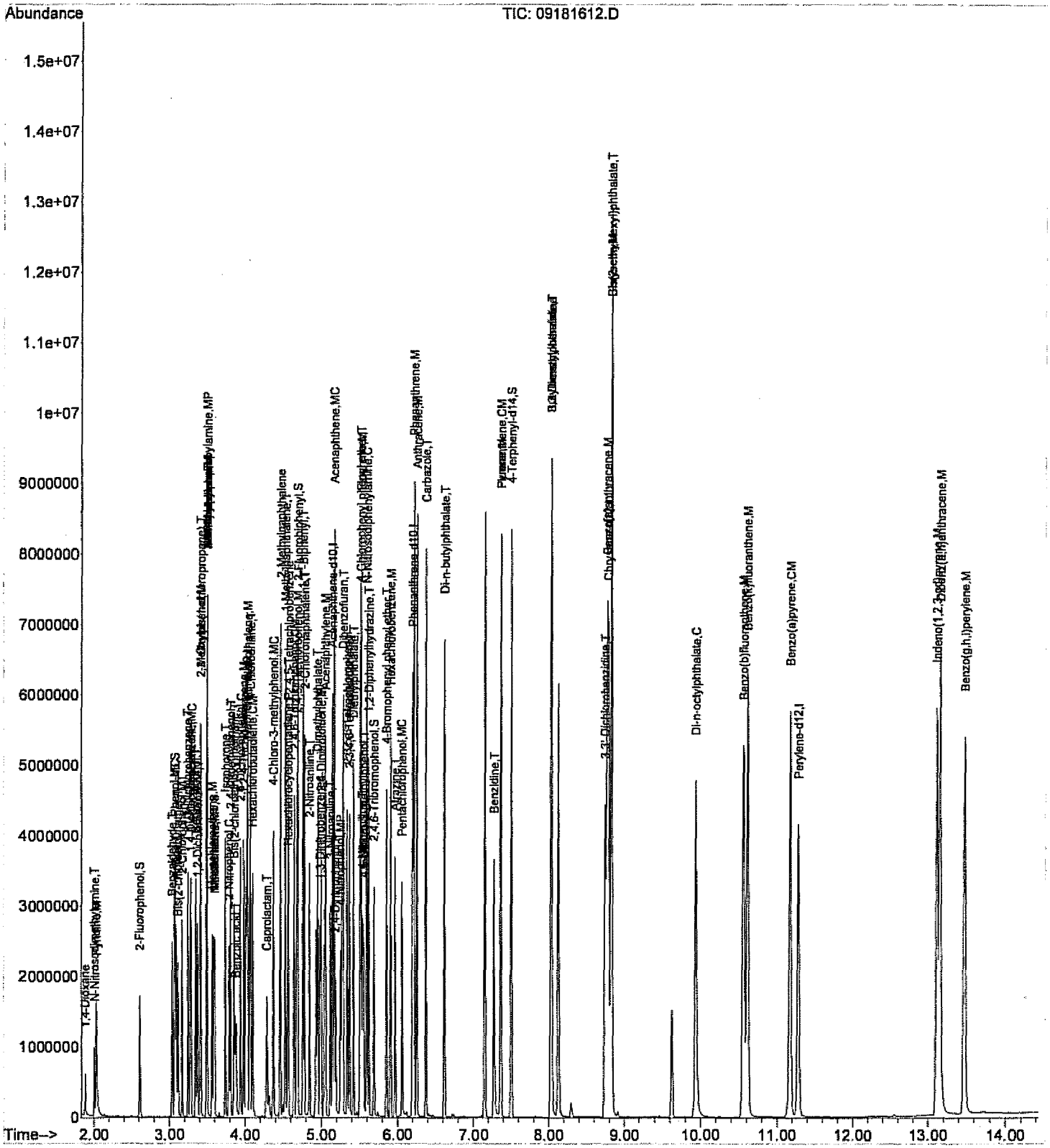
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94) Benzo(k)fluoranthene	10.61	252	4103515	48.64 ug/ml	95
95) Benzo(a)pyrene	11.18	252	4098024	50.07 ug/ml	95
96) Indeno(1,2,3-cd)pyrene	13.12	276	3612425m	50.17 ug/ml	
97) Dibenz(a,h)anthracene	13.16	278	3723179	50.42 ug/ml	94
98) Benzo(g,h,i)perylene	13.48	276	3520748	49.21 ug/ml	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181612.D Vial: 11
Acq On : 18 Sep 2016 3:08 pm Operator: JF
Sample : 50 ug/ml BNA Inst : SVMS5
Misc : 300.0090H Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 9:38 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181613.D Vial: 12
Acq On : 18 Sep 2016 3:30 pm Operator: JF
Sample : 60 ug/ml BNA Inst : SVMS5
Misc : 300.0090I Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:21 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	609298	40.00 ug/ml	-0.04
24) Naphthalene-d8	4.02	136	1487562	40.00 ug/ml	-0.04
43) Acenaphthene-d10	5.15	164	1021039	40.00 ug/ml	-0.06
68) Phenanthrene-d10	6.21	188	1927031	40.00 ug/ml	-0.09
81) Chrysene-d12	8.81	240	2657634	40.00 ug/ml	-0.12
91) Perylene-d12	11.29	264	2670399	40.00 ug/ml	-0.14
System Monitoring Compounds					
5) 2-Fluorophenol	2.61	112	635413	61.03 ug/ml	-0.03
Spiked Amount 50.000	Range 7 - 75		Recovery = 122.06%#		
7) Phenol-d6	3.07	99	906855	63.05 ug/ml	-0.02
Spiked Amount 50.000	Range 3 - 67		Recovery = 126.10%#		
25) Nitrobenzene-d5	3.59	82	869305	61.77 ug/ml	-0.03
Spiked Amount 50.000	Range 8 - 115		Recovery = 123.54%#		
48) 2-Fluorobiphenyl	4.69	172	1943182	63.59 ug/ml	-0.05
Spiked Amount 50.000	Range 20 - 122		Recovery = 127.18%#		
72) 2,4,6-Tribromophenol	5.70	330	358719	62.26 ug/ml	-0.07
Spiked Amount 50.000	Range 24 - 162		Recovery = 124.52%		
85) 4-Terphenyl-d14	7.53	244	3119734	56.93 ug/ml	-0.11
Spiked Amount 50.000	Range 22 - 172		Recovery = 113.86%		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.88	88	230849m	56.84 ug/ml	
3) Pyridine	2.03	79	723736	60.27 ug/ml	92
4) N-Nitrosodimethylamine	2.01	42	271885	61.57 ug/ml#	71
6) Benzaldehyde	3.04	77	431069	56.79 ug/ml	83
8) Phenol	3.08	94	1029132	71.14 ug/ml	80
9) Aniline	3.09	93	1021691	58.43 ug/ml#	75
10) Bis(2-chloroethyl)ether	3.12	93	717118	58.81 ug/ml	80
11) 2-Chlorophenol	3.17	128	762081	61.22 ug/ml	92
12) 1,3-Dichlorobenzene	3.25	146	780480	54.82 ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	807973	55.18 ug/ml	94
14) Benzyl alcohol	3.35	108	546038	64.93 ug/ml#	73
15) 1,2-Dichlorobenzene	3.37	146	786372	56.03 ug/ml	96
16) 2-Methylphenol	3.41	107	610812	61.07 ug/ml	93
17) 2,2'-Oxybis(1-chloropropan	3.41	45	780042m	51.61 ug/ml	
18) 3-Methylphenol	3.50	107	794235m	60.12 ug/ml	
19) 4-Methylphenol	3.50	107	795094m	60.33 ug/ml	
20) 3&4-Methylphenol	3.50	107	796185	60.00 ug/ml#	56
21) Acetophenone	3.50	105	1009173	60.05 ug/ml	90
22) N-Nitrosodi-n-propylamine	3.49	70	532724m	61.89 ug/ml	
23) Hexachloroethane	3.57	117	297424	59.19 ug/ml	96
26) Nitrobenzene	3.60	123	426968	61.46 ug/ml#	71
27) Isophorone	3.74	82	1487850	62.02 ug/ml	94
28) 2-Nitrophenol	3.79	139	482301	61.48 ug/ml	72
29) 2,4-Dimethylphenol	3.81	107	780506	61.34 ug/ml	87
30) Bis(2-chloroethoxy)methane	3.86	93	932052	61.60 ug/ml	97
31) Benzoic acid	3.89	122	630520	62.95 ug/ml	78
32) 2,4-Dichlorophenol	3.94	162	737897	62.45 ug/ml	98
33) 1,2,4-Trichlorobenzene	3.99	180	770790	63.71 ug/ml	97
34) Naphthalene	4.03	128	2326788	61.33 ug/ml	92
35) 4-Chloroaniline	4.06	127	1047167	60.93 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181613.D Vial: 12
Acq On : 18 Sep 2016 3:30 pm Operator: JF
Sample : 60 ug/ml BNA Inst : SVMS5
Misc : 300.0090I Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:21 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	737897	62.45 ug/ml	98
37) Hexachlorobutadiene	4.10	225	401016	59.55 ug/ml	98
38) Caprolactam	4.29	55	420553m	66.04 ug/ml	
39) 4-Chloro-3-methylphenol	4.37	107	759973	63.85 ug/ml	87
40) 2-Methylnaphthalene	4.46	142	1759629	65.58 ug/ml	94
41) 1-Methylnaphthalene	4.53	142	1647234	63.60 ug/ml	93
42) 1,1`-Biphenyl	4.76	154	2094107	61.26 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	270408	54.76 ug/ml	98
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	860772	59.08 ug/ml	98
46) 2,4,6-Trichlorophenol	4.64	196	581398	60.07 ug/ml	98
47) 2,4,5-Trichlorophenol	4.68	196	633311	60.14 ug/ml	100
49) 1,3-Dinitrobenzene	4.99	168	390841	61.62 ug/ml	93
50) 2-Chloronaphthalene	4.78	162	1648722	58.76 ug/ml	96
51) 2-Nitroaniline	4.85	65	494654	61.94 ug/ml#	75
52) Dimethylphthalate	4.96	163	2013058	61.41 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.34	232	551694	60.87 ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.38	232	566603	61.22 ug/ml	98
55) Acenaphthylene	5.05	152	2482013	59.96 ug/ml	99
56) 2,6-Dinitrotoluene	5.00	165	511227	61.12 ug/ml	73
57) 3-Nitroaniline	5.13	138	588730	60.76 ug/ml#	81
58) Acenaphthene	5.17	154	1852266	61.93 ug/ml	100
59) 2,4-Dinitrophenol	5.19	184	316650	55.88 ug/ml	90
60) Dibenzofuran	5.29	168	2548917	63.30 ug/ml	95
61) 4-Nitrophenol	5.25	65	442402	65.21 ug/ml	82
62) 2,4-Dinitrotoluene	5.00	165	511227	61.12 ug/ml	73
63) Diethylphthalate	5.43	149	1994984	62.85 ug/ml	98
64) Fluorene	5.53	166	2153343	62.85 ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.51	204	1029599	60.35 ug/ml	93
66) 4-Nitroaniline	5.55	138	635417	63.54 ug/ml#	30
67) Atrazine	5.98	200	324210m	45.67 ug/ml	
69) 4,6-Dinitro-2-methylphenol	5.56	198	465996	60.62 ug/ml	91
70) N-Nitrosodiphenylamine	5.60	169	1847437	59.10 ug/ml	98
71) 1,2-Diphenylhydrazine	5.63	77	1899029	58.93 ug/ml	92
73) 4-Bromophenyl phenyl ether	5.87	248	664158	60.56 ug/ml	93
74) Hexachlorobenzene	5.92	284	748945	61.40 ug/ml	91
75) Pentachlorophenol	6.07	266	438409	58.23 ug/ml	97
76) Phenanthrene	6.22	178	3357381	58.91 ug/ml	98
77) Anthracene	6.27	178	3353855	62.75 ug/ml	98
78) Carbazole	6.39	167	3341739	61.40 ug/ml	97
79) Di-n-butylphthalate	6.64	149	3657254	60.05 ug/ml	97
80) Fluoranthene	7.39	202	4375981	66.29 ug/ml	90
82) 3,3-Dimethylbenzidine	8.06	212	2661403	56.35 ug/ml	98
83) Benzidine	7.29	184	1910854	61.20 ug/ml	95
84) Pyrene	7.39	202	4375981	55.18 ug/ml	93
86) Butylbenzylphthalate	8.06	149	2102547	58.05 ug/ml	90
87) Benzo[a]anthracene	8.79	228	4979216	60.89 ug/ml	96
88) 3,3'-Dichlorobenzidine	8.77	252	1560502	64.16 ug/ml	97
89) Chrysene	8.85	228	4365498	59.26 ug/ml	96
90) Bis(2-ethylhexyl)phthalate	8.85	149	2762870	58.08 ug/ml	79
92) Di-n-octylphthalate	9.96	149	5226759m	55.33 ug/ml	
93) Benzo(b)fluoranthene	10.58	252	5331193	61.81 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181613.D Vial: 12
Acq On : 18 Sep 2016 3:30 pm Operator: JF
Sample : 60 ug/ml BNA Inst : SVMS5
Misc : 300.0090I Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 08:28:21 2016 Quant Results File: 5S091216.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091216.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Tue Sep 13 10:08:46 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

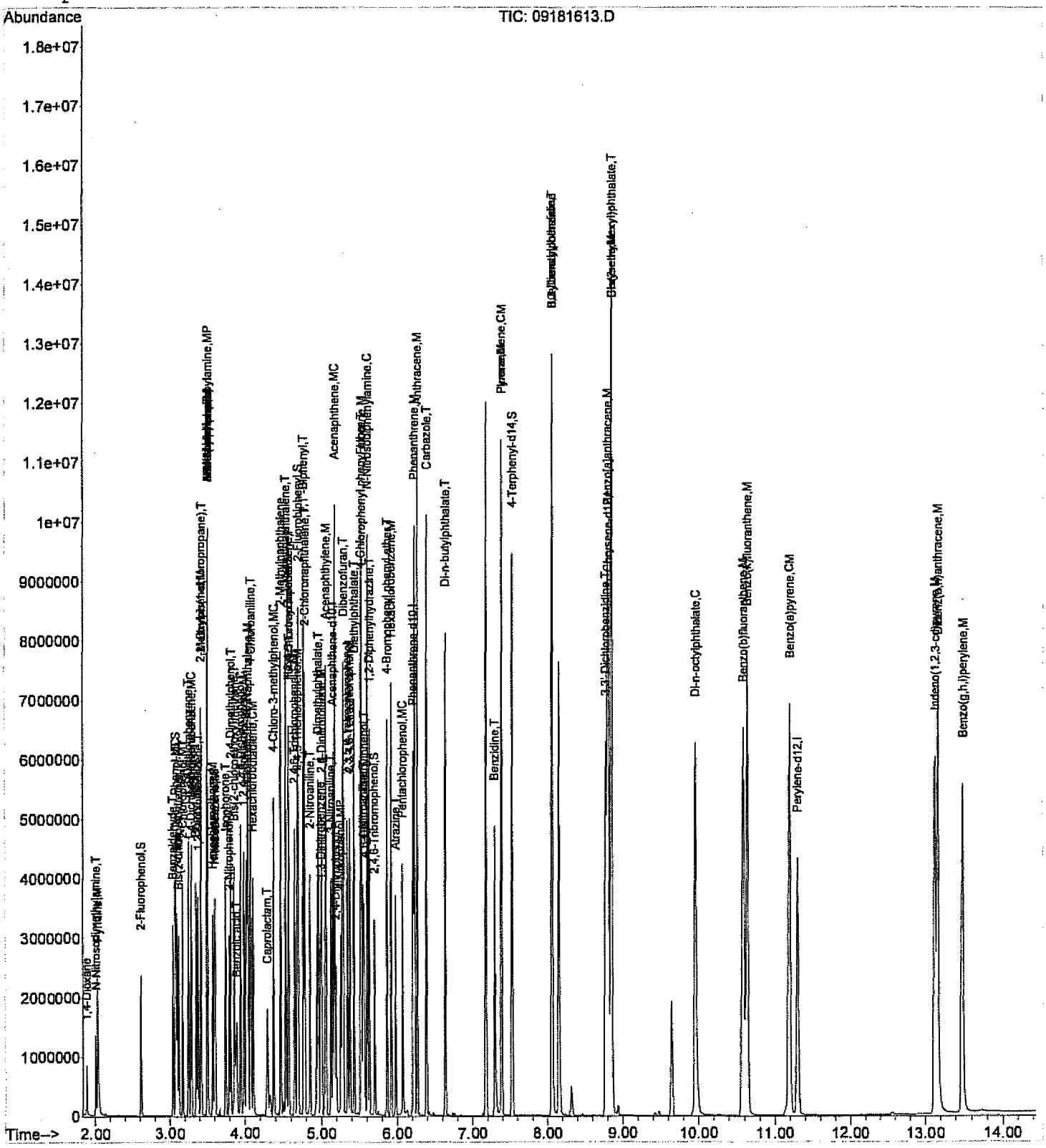
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.64	252	4881677	57.29 ug/ml	94
95)	Benzo(a)pyrene	11.19	252	5052158	61.04 ug/ml	95
96)	Indeno(1,2,3-cd)pyrene	13.13	276	4300041m	59.09 ug/ml	
97)	Dibenz(a,h)anthracene	13.16	278	4215986m	56.60 ug/ml	
98)	Benzo(g,h,i)perylene	13.49	276	3779652m	52.44 ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181613.D Vial: 12
Acq On : 18 Sep 2016 3:30 pm Operator: JF
Sample : 60 ug/ml BNA Inst : SVMS5
Misc : 300.0090I Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 9:43 2016 Quant Results File: 5S091216.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 09:51:48 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	399951	40.00	ug/ml	0.00
24) Naphthalene-d8	4.02	136	1199789	40.00	ug/ml	0.00
43) Acenaphthene-d10	5.14	164	920744	40.00	ug/ml	0.00
68) Phenanthrene-d10	6.21	188	1903921	40.00	ug/ml	0.02
81) Chrysene-d12	8.81	240	2801197	40.00	ug/ml	0.04
91) Perylene-d12	11.29	264	3235555	40.00	ug/ml	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.61	112	150863	21.66	ug/ml	0.00
Spiked Amount 50.000	Range 7 - 75		Recovery = 43.32%			
7) Phenol-d6	3.07	99	237333	23.12	ug/ml	0.00
Spiked Amount 50.000	Range 3 - 67		Recovery = 46.24%			
25) Nitrobenzene-d5	3.59	82	230690	20.36	ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 40.72%			
48) 2-Fluorobiphenyl	4.69	172	573574	20.09	ug/ml	0.00
Spiked Amount 50.000	Range 20 - 122		Recovery = 40.18%			
72) 2,4,6-Tribromophenol	5.70	330	114896	20.19	ug/ml	0.01
Spiked Amount 50.000	Range 24 - 162		Recovery = 40.38%			
85) 4-Terphenyl-d14	7.52	244	1046521	19.46	ug/ml	0.03
Spiked Amount 50.000	Range 22 - 172		Recovery = 38.92%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.88	88	56160	21.18	ug/ml	88
3) Pyridine	2.03	79	167038	20.64	ug/ml	92
4) N-Nitrosodimethylamine	2.01	42	65232	21.10	ug/ml#	71
6) Benzaldehyde	3.04	77	121496	22.28	ug/ml	83
8) Phenol	3.08	94	255790	21.90	ug/ml	85
9) Aniline	3.09	93	237993	20.18	ug/ml	59
10) Bis(2-chloroethyl)ether	3.12	93	176386	21.48	ug/ml	82
11) 2-Chlorophenol	3.17	128	181657	21.28	ug/ml	93
12) 1,3-Dichlorobenzene	3.25	146	182402	20.53	ug/ml	97
13) 1,4-Dichlorobenzene	3.29	146	189402	19.26	ug/ml	95
14) Benzyl alcohol	3.35	108	137345	22.35	ug/ml#	75
15) 1,2-Dichlorobenzene	3.37	146	185494	19.38	ug/ml	96
16) 2-Methylphenol	3.41	107	155530	22.27	ug/ml	95
17) 2,2'-Oxybis(1-chloropropan	3.41	45	207993	22.69	ug/ml	74
18) 3-Methylphenol	3.50	107	217852m	23.84	ug/ml	
19) 4-Methylphenol	3.50	107	217377m	23.75	ug/ml	
20) 3&4-Methylphenol	3.50	107	219448	23.93	ug/ml#	56
21) Acetophenone	3.50	105	277548	23.50	ug/ml	89
22) N-Nitrosodi-n-propylamine	3.49	70	149113m	24.00	ug/ml	
23) Hexachloroethane	3.57	117	69099	20.52	ug/ml	95
26) Nitrobenzene	3.60	123	109303	19.75	ug/ml#	72
27) Isophorone	3.73	82	423348	21.50	ug/ml	95
28) 2-Nitrophenol	3.79	139	117028	19.21	ug/ml	73
29) 2,4-Dimethylphenol	3.80	107	188654	18.46	ug/ml	89
30) Bis(2-chloroethoxy)methane	3.85	93	250183	20.14	ug/ml	95
31) Benzoic acid	3.86	122	159488m	22.93	ug/ml	
32) 2,4-Dichlorophenol	3.94	162	187248	19.80	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.98	180	190823	18.80	ug/ml	98
34) Naphthalene	4.03	128	617014	19.78	ug/ml	92
35) 4-Chloroaniline	4.06	127	283758	20.21	ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 09:51:48 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.94	162	187248	19.80 ug/ml	98
37) Hexachlorobutadiene	4.10	225	96960	18.48 ug/ml	98
38) Caprolactam	4.27	55	123586	22.43 ug/ml	80
39) 4-Chloro-3-methylphenol	4.37	107	212900	21.42 ug/ml	89
40) 2-Methylnaphthalene	4.46	142	470107	20.01 ug/ml	93
41) 1-Methylnaphthalene	4.53	142	456362	20.74 ug/ml	92
42) 1,1`-Biphenyl	4.76	154	621517	21.63 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	46186	16.62 ug/ml	99
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	216345	17.29 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	155566	18.51 ug/ml	98
47) 2,4,5-Trichlorophenol	4.68	196	173802	18.93 ug/ml	100
49) 1,3-Dinitrobenzene	4.98	168	117845	20.85 ug/ml	94
50) 2-Chloronaphthalene	4.78	162	485184	19.47 ug/ml	96
51) 2-Nitroaniline	4.84	65	146953	20.55 ug/ml#	75
52) Dimethylphthalate	4.95	163	615578	20.50 ug/ml	100
53) 2,3,5,6-Tetrachlorophenol	5.34	232	156288	19.32 ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.37	232	167812	20.00 ug/ml	98
55) Acenaphthylene	5.05	152	803169	21.61 ug/ml	99
56) 2,6-Dinitrotoluene	5.00	165	153557	20.54 ug/ml	72
57) 3-Nitroaniline	5.11	138	179781	20.77 ug/ml#	80
58) Acenaphthene	5.17	154	531956	19.50 ug/ml	100
59) 2,4-Dinitrophenol	5.18	184	82235m	22.88 ug/ml	
60) Dibenzofuran	5.28	168	758405	19.93 ug/ml	95
61) 4-Nitrophenol	5.25	65	135330	21.76 ug/ml	84
62) 2,4-Dinitrotoluene	5.00	165	153557	20.54 ug/ml	72
63) Diethylphthalate	5.42	149	628099	20.97 ug/ml	99
64) Fluorene	5.52	166	656391	20.37 ug/ml	97
65) 4-Chlorophenyl phenyl ethe	5.51	204	299280	19.65 ug/ml	93
66) 4-Nitroaniline	5.54	138	210958	22.50 ug/ml#	31
67) Atrazine	5.97	200	40318	4.79 ug/ml	96
69) 4,6-Dinitro-2-methylphenol	5.55	198	147045	20.50 ug/ml	92
70) N-Nitrosodiphenylamine	5.60	169	581546	19.33 ug/ml	100
71) 1,2-Diphenylhydrazine	5.62	77	602925	19.28 ug/ml	94
73) 4-Bromophenyl phenyl ether	5.86	248	192342	18.25 ug/ml	93
74) Hexachlorobenzene	5.91	284	224671	18.48 ug/ml	92
75) Pentachlorophenol	6.07	266	125620	19.05 ug/ml	95
76) Phenanthrene	6.22	178	1074611	19.60 ug/ml	100
77) Anthracene	6.26	178	1089654	19.88 ug/ml	99
78) Carbazole	6.38	167	1122959	20.64 ug/ml	95
79) Di-n-butylphthalate	6.63	149	1253345	20.70 ug/ml	98
80) Fluoranthene	7.38	202	1438831	20.37 ug/ml	91
82) 3,3-Dimethylbenzidine	8.05	212	621786	16.64 ug/ml	97
83) Benzidine	7.29	184	430627m	14.25 ug/ml	
84) Pyrene	7.38	202	1438831	18.59 ug/ml	94
86) Butylbenzylphthalate	8.06	149	681156	19.03 ug/ml	93
87) Benzo[a]anthracene	8.79	228	1627277	19.13 ug/ml	96
88) 3,3'-Dichlorobenzidine	8.76	252	489214	21.95 ug/ml	97
89) Chrysene	8.84	228	1540217	20.11 ug/ml	96
90) Bis(2-ethylhexyl)phthalate	8.84	149	910925	19.27 ug/ml	82
92) Di-n-octylphthalate	9.95	149	1611961	17.32 ug/ml	99
93) Benzo(b)fluoranthene	10.57	252	1734834	17.51 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 09:51:48 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

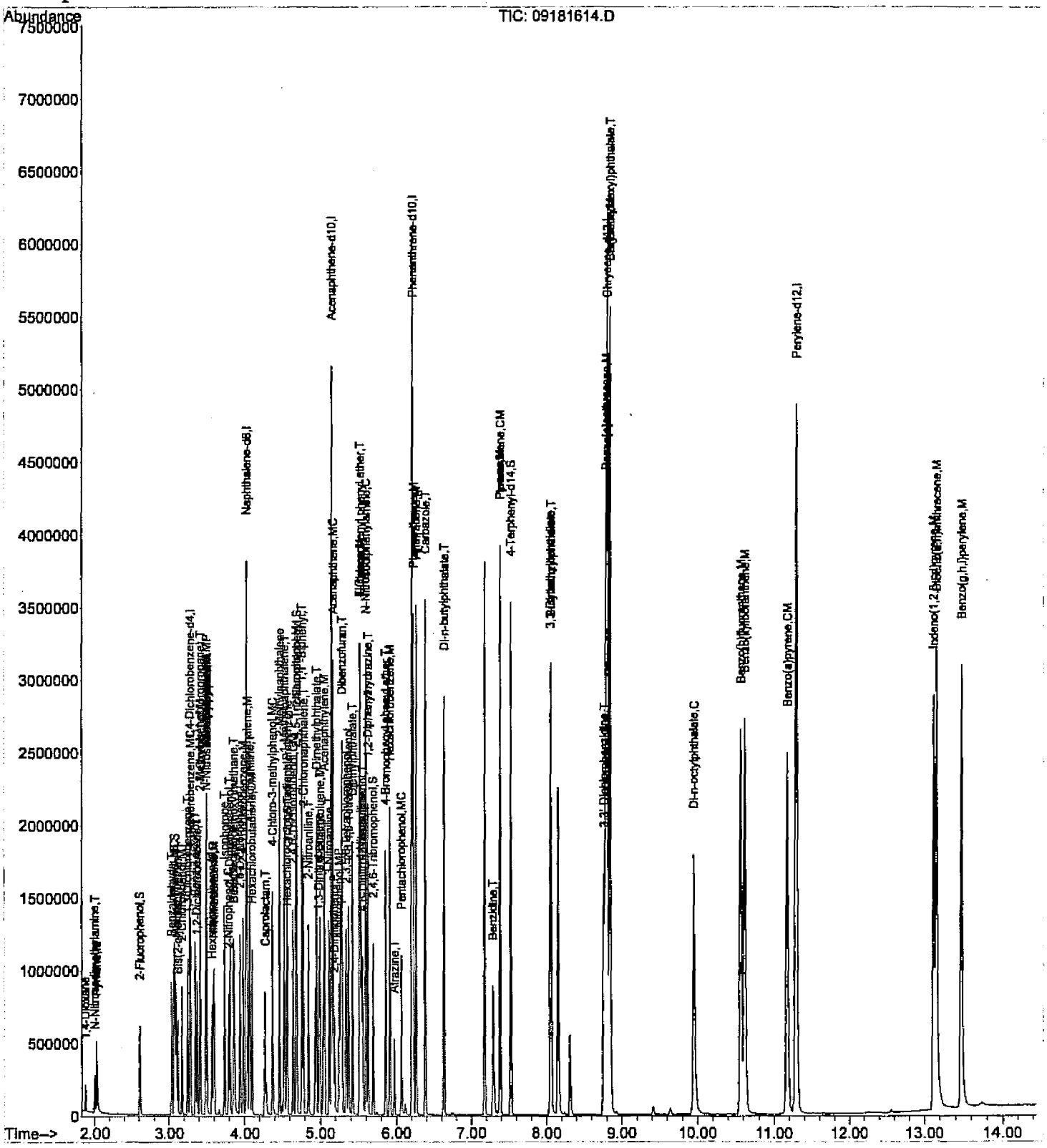
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.62	252	1790354	18.30 ug/ml	96
95)	Benzo(a)pyrene	11.18	252	1731101	18.05 ug/ml	95
96)	Indeno(1,2,3-cd)pyrene	13.12	276	1713281	20.56 ug/ml	91
97)	Dibenz(a,h)anthracene	13.15	278	1786387	23.00 ug/ml	94
98)	Benzo(g,h,i)perylene	13.47	276	1821034	23.24 ug/ml	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 19 10:00 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	71	0.00
2		1,4-Dioxane	20.000	21.184	-5.9	68	0.00
3	M	Pyridine	20.000	20.636	-3.2	73	0.00
4	T	N-Nitrosodimethylamine	20.000	21.104	-5.5	74	0.00
5	S	2-Fluorophenol	20.000	21.656	-8.3	74	0.00
6	T	Benzaldehyde	20.000	22.276	-11.4	82	0.00
7	S	Phenol-d6	20.000	23.125	-15.6	81	0.00
8	MC	Phenol	20.000	21.898	-9.5	77	0.00
9	T	Aniline	20.000	20.181	-0.9	70	0.00
10	T	Bis(2-chloroethyl)ether	20.000	21.476	-7.4	75	0.00
11	MT	2-Chlorophenol	20.000	21.281	-6.4	75	0.00
12	T	1,3-Dichlorobenzene	20.000	20.528	-2.6	70	0.00
13	MC	1,4-Dichlorobenzene	20.000	19.258	3.7	71	0.00
14	T	Benzyl alcohol	20.000	22.345	-11.7	81	0.00
15	T	1,2-Dichlorobenzene	20.000	19.377	3.1	72	0.00
16	M	2-Methylphenol	20.000	22.270	-11.3	78	0.00
17	T	2,2'-Oxybis(1-chloropropane	20.000	22.694	-13.5	76	0.00
18	M	3-Methylphenol	20.000	23.838	-19.2	82	0.00
19	M	4-Methylphenol	20.000	23.751	-18.8	82	0.00
20		3&4-Methylphenol	20.000	23.934	-19.7	83	0.00
21	T	Acetophenone	20.000	23.501	-17.5	81	0.00
22	MP	N-Nitrosodi-n-propylamine	20.000	23.997	-20.0	82	0.00
23	M	Hexachloroethane	20.000	20.523	-2.6	72	0.00
24	I	Naphthalene-d8	40.000	40.000	0.0	79	0.00
25	S	Nitrobenzene-d5	20.000	20.364	-1.8	82	0.00
26	M	Nitrobenzene	20.000	19.749	1.3	82	0.00
27	T	Isophorone	20.000	21.498	-7.5	88	0.00
28	C	2-Nitrophenol	20.000	19.215	3.9	80	0.00
29	T	2,4-Dimethylphenol	20.000	18.458	7.7	76	0.00
30	T	Bis(2-chloroethoxy)methane	20.000	20.144	-0.7	82	0.00
31	T	Benzoic acid	20.000	22.933	-14.7	101	0.00
32	C	2,4-Dichlorophenol	20.000	19.803	1.0	83	0.00
33	M	1,2,4-Trichlorobenzene	20.000	18.797	6.0	78	0.00
34	M	Naphthalene	20.000	19.785	1.1	80	0.00
35	T	4-Chloroaniline	20.000	20.211	-1.1	82	0.00
36		2,6-Dichlorophenol	20.000	19.803	1.0	83	0.00
37	CM	Hexachlorobutadiene	20.000	18.476	7.6	76	0.00
38	T	Caprolactam	20.000	22.427	-12.1	99	0.00
39	MC	4-Chloro-3-methylphenol	20.000	21.421	-7.1	93	0.00
40		2-Methylnaphthalene	20.000	20.005	-0.0	82	0.00
41	T	1-Methylnaphthalene	20.000	20.735	-3.7	84	0.00
42	T	1,1'-Biphenyl	20.000	21.635	-8.2	87	0.00
43	I	Acenaphthene-d10	40.000	40.000	0.0	90	0.00
44	P	Hexachlorocyclopentadiene	20.000	16.622	16.9	69	0.00
45		1,2,4,5-Tetrachlorobenzene	20.000	17.288	13.6	79	0.00
46	CM	2,4,6-Trichlorophenol	20.000	18.510	7.4	86	0.00
47	M	2,4,5-Trichlorophenol	20.000	18.929	5.4	89	0.00
48	S	2-Fluorobiphenyl	20.000	20.086	-0.4	90	0.00
49		1,3-Dinitrobenzene	20.000	20.852	-4.3	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	T	2-Chloronaphthalene	20.000	19.468	2.7	87	0.00
51	T	2-Nitroaniline	20.000	20.552	-2.8	98	0.00
52	T	Dimethylphthalate	20.000	20.497	-2.5	95	0.00
53		2,3,5,6-Tetrachlorophenol	20.000	19.315	3.4	93	0.00
54		2,3,4,6-Tetrachlorophenol	20.000	19.999	0.0	95	0.00
55	M	Acenaphthylene	20.000	21.608	-8.0	99	0.00
56	T	2,6-Dinitrotoluene	20.000	20.543	-2.7	95	0.00
57	T	3-Nitroaniline	20.000	20.773	-3.9	99	0.00
58	MC	Acenaphthene	20.000	19.504	2.5	93	0.00
59	P	2,4-Dinitrophenol	20.000	22.876	-14.4	120	0.00
60	T	Dibenzofuran	20.000	19.927	0.4	91	0.00
61	MP	4-Nitrophenol	20.000	21.755	-8.8	114	0.00
62	M	2,4-Dinitrotoluene	20.000	20.543	-2.7	95	0.00
63	T	Diethylphthalate	20.000	20.966	-4.8	97	0.00
64	M	Fluorene	20.000	20.368	-1.8	94	0.00
65	T	4-Chlorophenyl phenyl ether	20.000	19.645	1.8	93	0.00
66	T	4-Nitroaniline	20.000	22.497	-12.5	106	0.00
67	T	Atrazine	20.000	4.786	76.1#	24	0.01
68	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.02
69	T	4,6-Dinitro-2-methylphenol	20.000	20.501	-2.5	116	0.00
70	C	N-Nitrosodiphenylamine	20.000	19.329	3.4	97	0.00
71	T	1,2-Diphenylhydrazine	20.000	19.277	3.6	95	0.01
72	S	2,4,6-Tribromophenol	20.000	20.195	-1.0	101	0.01
73	T	4-Bromophenyl phenyl ether	20.000	18.246	8.8	94	0.00
74	M	Hexachlorobenzene	20.000	18.483	7.6	94	0.01
75	MC	Pentachlorophenol	20.000	19.055	4.7	105	0.02
76	M	Phenanthrene	20.000	19.596	2.0	102	0.02
77	M	Anthracene	20.000	19.881	0.6	102	0.02
78	T	Carbazole	20.000	20.644	-3.2	108	0.02
79	T	Di-n-butylphthalate	20.000	20.700	-3.5	106	0.02
80	CM	Fluoranthene	20.000	20.370	-1.9	109	0.03
81	I	Chrysene-d12	40.000	40.000	0.0	123	0.04
82		3,3-Dimethylbenzidine	20.000	16.636	16.8	104	0.03
83	T	Benzidine	20.000	14.254	28.7#	88	0.03
84	M	Pyrene	20.000	18.594	7.0	109	0.03
85	S	4-Terphenyl-d14	20.000	19.464	2.7	117	0.03
86	T	Butylbenzylphthalate	20.000	19.030	4.8	118	0.03
87	M	Benzo[a]anthracene	20.000	19.132	4.3	123	0.03
88	T	3,3'-Dichlorobenzidine	20.000	21.951	-9.8	145	0.04
89	M	Chrysene	20.000	20.107	-0.5	127	0.04
90	T	Bis(2-ethylhexyl)phthalate	20.000	19.275	3.6	122	0.03
91	I	Perylene-d12	40.000	40.000	0.0	162	0.02
92	C	Di-n-octylphthalate	20.000	17.317	13.4	142	0.02
93	M	Benzo(b)fluoranthene	20.000	17.509	12.5	148	0.03
94	M	Benzo(k)fluoranthene	20.000	18.299	8.5	149	0.03
95	CM	Benzo(a)pyrene	20.000	18.051	9.7	162	0.03
96	M	Indeno(1,2,3-cd)pyrene	20.000	20.559	-2.8	178	0.02
97	M	Dibenz(a,h)anthracene	20.000	22.999	-15.0	215	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
98 M	Benzo(g,h,i)perylene	20.000	23.243	-16.2	216	0.02

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	71	0.00
2		1,4-Dioxane	0.285	0.281	1.4	68	0.00
3	M	Pyridine	0.792	0.835	-5.4	73	0.00
4	T	N-Nitrosodimethylamine	0.411	0.326	20.7	74	0.00
5	S	2-Fluorophenol	0.697	0.754	-8.2	74	0.00
6	T	Benzaldehyde	0.474	0.608	-28.3#	82	0.00
7	S	Phenol-d6	0.973	1.187	-22.0	81	0.00
8	MC	Phenol	1.180	1.279	-8.4	77	0.00
9	T	Aniline	1.194	1.190	0.3	70	0.00
10	T	Bis(2-chloroethyl)ether	0.887	0.882	0.6	75	0.00
11	MT	2-Chlorophenol	0.832	0.908	-9.1	75	0.00
12	T	1,3-Dichlorobenzene	0.971	0.912	6.1	70	0.00
13	MC	1,4-Dichlorobenzene	0.984	0.947	3.8	71	0.00
14	T	Benzyl alcohol	0.583	0.687	-17.8	81	0.00
15	T	1,2-Dichlorobenzene	0.957	0.928	3.0	72	0.00
16	M	2-Methylphenol	0.698	0.778	-11.5	78	0.00
17	T	2,2'-Oxybis(1-chloropropane	1.068	1.040	2.6	76	0.00
18	M	3-Methylphenol	0.914	1.089	-19.1	82	0.00
19	M	4-Methylphenol	0.915	1.087	-18.8	82	0.00
20		3&4-Methylphenol	0.917	1.097	-19.6	83	0.00
21	T	Acetophenone	1.308	1.388	-6.1	81	0.00
22	MP	N-Nitrosodi-n-propylamine	0.659	0.746	-13.2	82	0.00
23	M	Hexachloroethane	0.341	0.346	-1.5	72	0.00
24	I	Naphthalene-d8	1.000	1.000	0.0	79	0.00
25	S	Nitrobenzene-d5	0.352	0.385	-9.4	82	0.00
26	M	Nitrobenzene	0.167	0.182	-9.0	82	0.00
27	T	Isophorone	0.650	0.706	-8.6	88	0.00
28	C	2-Nitrophenol	0.180	0.195	-8.3	80	0.00
29	T	2,4-Dimethylphenol	0.321	0.314	2.2	76	0.00
30	T	Bis(2-chloroethoxy)methane	0.418	0.417	0.2	82	0.00
31	T	Benzoic acid	0.191	0.266	-39.3#	101	0.00
32	C	2,4-Dichlorophenol	0.282	0.312	-10.6	83	0.00
33	M	1,2,4-Trichlorobenzene	0.338	0.318	5.9	78	0.00
34	M	Naphthalene	1.216	1.029	15.4	80	0.00
35	T	4-Chloroaniline	0.433	0.473	-9.2	82	0.00
36		2,6-Dichlorophenol	0.282	0.312	-10.6	83	0.00
37	CM	Hexachlorobutadiene	0.179	0.162	9.5	76	0.00
38	T	Caprolactam	0.163	0.206	-26.4#	99	0.00
39	MC	4-Chloro-3-methylphenol	0.300	0.355	-18.3	93	0.00
40		2-Methylnaphthalene	0.812	0.784	3.4	82	0.00
41	T	1-Methylnaphthalene	0.764	0.761	0.4	84	0.00
42	T	1,1`-Biphenyl	1.009	1.036	-2.7	87	0.00
43	I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
44	P	Hexachlorocyclopentadiene	0.114	0.100	12.3	69	0.00
45		1,2,4,5-Tetrachlorobenzene	0.562	0.470	16.4	79	0.00
46	CM	2,4,6-Trichlorophenol	0.329	0.338	-2.7	86	0.00
47	M	2,4,5-Trichlorophenol	0.356	0.378	-6.2	89	0.00
48	S	2-Fluorobiphenyl	1.241	1.246	-0.4	90	0.00
49		1,3-Dinitrobenzene	0.209	0.256	-22.5	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	2-Chloronaphthalene	1.148	1.054	8.2	87	0.00
51	T	2-Nitroaniline	0.265	0.319	-20.4	98	0.00
52	T	Dimethylphthalate	1.418	1.337	5.7	95	0.00
53		2,3,5,6-Tetrachlorophenol	0.307	0.339	-10.4	93	0.00
54		2,3,4,6-Tetrachlorophenol	0.332	0.365	-9.9	95	0.00
55	M	Acenaphthylene	1.686	1.745	-3.5	99	0.00
56	T	2,6-Dinitrotoluene	0.288	0.334	-16.0	95	0.00
57	T	3-Nitroaniline	0.329	0.391	-18.8	99	0.00
58	MC	Acenaphthene	1.247	1.155	7.4	93	0.00
59	P	2,4-Dinitrophenol	0.152	0.179	-17.8	120	0.00
60	T	Dibenzofuran	1.791	1.647	8.0	91	0.00
61	MP	4-Nitrophenol	0.243	0.294	-21.0	114	0.00
62	M	2,4-Dinitrotoluene	0.288	0.334	-16.0	95	0.00
63	T	Diethylphthalate	1.375	1.364	0.8	97	0.00
64	M	Fluorene	1.478	1.426	3.5	94	0.00
65	T	4-Chlorophenyl phenyl ether	0.685	0.650	5.1	93	0.00
66	T	4-Nitroaniline	0.348	0.458	-31.6#	106	0.00
67	T	Atrazine	0.284	0.088	69.0#	24#	0.01
68	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.02
69	T	4,6-Dinitro-2-methylphenol	0.114	0.154	-35.1#	116	0.00
70	C	N-Nitrosodiphenylamine	0.623	0.611	1.9	97	0.00
71	T	1,2-Diphenylhydrazine	0.674	0.633	6.1	95	0.01
72	S	2,4,6-Tribromophenol	0.120	0.121	-0.8	101	0.01
73	T	4-Bromophenyl phenyl ether	0.221	0.202	8.6	94	0.00
74	M	Hexachlorobenzene	0.276	0.236	14.5	94	0.01
75	MC	Pentachlorophenol	0.122	0.132	-8.2	105	0.02
76	M	Phenanthrene	1.283	1.129	12.0	102	0.02
77	M	Anthracene	1.187	1.145	3.5	102	0.02
78	T	Carbazole	1.132	1.180	-4.2	108	0.02
79	T	Di-n-butylphthalate	1.225	1.317	-7.5	106	0.02
80	CM	Fluoranthene	1.513	1.511	0.1	109	0.03
81	I	Chrysene-d12	1.000	1.000	0.0	123	0.04
82		3,3-Dimethylbenzidine	0.426	0.444	-4.2	104	0.03
83	T	Benzidine	0.371	0.307	17.3	88	0.03
84	M	Pyrene	1.122	1.027	8.5	109	0.03
85	S	4-Terphenyl-d14	0.726	0.747	-2.9	117	0.03
86	T	Butylbenzylphthalate	0.431	0.486	-12.8	118	0.03
87	M	Benzo[a]anthracene	1.355	1.162	14.2	123	0.03
88	T	3,3'-Dichlorobenzidine	0.256	0.349	-36.3#	145	0.04
89	M	Chrysene	1.177	1.100	6.5	127	0.04
90	T	Bis(2-ethylhexyl)phthalate	0.546	0.650	-19.0	122	0.03
91	I	Perylene-d12	1.000	1.000	0.0	162#	0.02
92	C	Di-n-octylphthalate	0.871	0.996	-14.4	142	0.02
93	M	Benzo(b)fluoranthene	1.082	1.072	0.9	148	0.03
94	M	Benzo(k)fluoranthene	1.107	1.107	0.0	149	0.03
95	CM	Benzo(a)pyrene	0.991	1.070	-8.0	162#	0.03
96	M	Indeno(1,2,3-cd)pyrene	0.805	1.059	-31.6#	178#	0.02
97	M	Dibenz(a,h)anthracene	0.855	1.104	-29.1#	215#	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S091816\09181614.D Vial: 13
Acq On : 18 Sep 2016 3:53 pm Operator: JF
Sample : ICV ug/ml BNA Inst : SVMS5
Misc : 300.0090J Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
98	M	Benzo(g,h,i)perylene	0.918	1.126	-22.7	216#	0.02

18SepM01
Starting sequence Sun Sep 18 12:01:58 2016

Instrument Name: SVMS5
Sequence File: C:\MSDCHEM\1\SEQUENCE\5S091816.S
Comment:
Operator: JF
Data Path: C:\MSDCHEM\1\data\5S091816\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
4)	Sample	1	09181604	8270PH	RINSE
5)	Sample	4	09181605	8270PH	0.1 ug/ml BNA
6)	Sample	5	09181606	8270PH	0.5 ug/ml BNA
7)	Sample	6	09181607	8270PH	1.0 ug/ml BNA
8)	Sample	7	09181608	8270PH	5.0 ug/ml BNA
9)	Sample	8	09181609	8270PH	10 ug/ml BNA
10)	Sample	9	09181610	8270PH	20ug/ml BNA
11)	Sample	10	09181611	8270PH	40 ug/ml BNA
12)	Sample	11	09181612	8270PH	50 ug/ml BNA
13)	Sample	12	09181613	8270PH	60 ug/ml BNA
14)	Sample	13	09181614	8270PH	ICV ug/ml BNA
15)	Sample	14	09181615	8270PH	SLCSS1-91405
16)	Sample	15	09181616	8270PH	SLCSS1-91418
17)	Sample	16	09181617	8270PH	SBLKW1-91478
18)	Sample	17	09181618	8270PH	SLCSW1-91478
19)	Sample	18	09181619	8270PH	SLCSDW1-91478
20)	Sample	19	09181620	8270PH	SBLKS1-91436
21)	Sample	20	09181621	8270PH	SLCSS1-91436
22)	Sample	2	09181622	DFTPP	50ug/ml DFTPP
23)	Sample	9	09181623	8270PH	20ug/ml BNA
24)	Sample	21	09181624	8270PH	1609630-03C MS
25)	Sample	22	09181625	8270PH	1609630-03C MSD
26)	Sample	23	09181626	8270PH	1609630-03C
27)	Sample	24	09181627	8270PH	1609202-15A
28)	Sample	25	09181628	8270PH	1609630-01C
29)	Sample	26	09181629	8270PH	1609630-02C

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	62	0.00
2		1,4-Dioxane	20.000	22.232	-11.2	62	-0.01
3	M	Pyridine	20.000	21.685	-8.4	67	-0.01
4	T	N-Nitrosodimethylamine	20.000	22.842	-14.2	70	0.00
5	S	2-Fluorophenol	20.000	22.484	-12.4	67	-0.02
6	T	Benzaldehyde	20.000	22.431	-12.2	72	0.00
7	S	Phenol-d6	20.000	21.865	-9.3	67	-0.01
8	MC	Phenol	20.000	21.142	-5.7	65	-0.02
9	T	Aniline	20.000	21.862	-9.3	66	0.00
10	T	Bis(2-chloroethyl)ether	20.000	20.062	-0.3	61	-0.01
11	MT	2-Chlorophenol	20.000	20.472	-2.4	63	-0.01
12	T	1,3-Dichlorobenzene	20.000	20.921	-4.6	63	-0.01
13	MC	1,4-Dichlorobenzene	20.000	19.823	0.9	64	-0.01
14	T	Benzyl alcohol	20.000	19.633	1.8	62	-0.01
15	T	1,2-Dichlorobenzene	20.000	19.562	2.2	64	0.00
16	M	2-Methylphenol	20.000	21.061	-5.3	64	-0.01
17	T	2,2'-Oxybis(1-chloropropane	20.000	22.925	-14.6	67	0.00
18	M	3-Methylphenol	20.000	21.957	-9.8	66	-0.01
19	M	4-Methylphenol	20.000	22.119	-10.6	67	-0.01
20		3&4-Methylphenol	20.000	22.003	-10.0	67	-0.01
21	T	Acetophenone	20.000	22.717	-13.6	68	-0.01
22	MP	N-Nitrosodi-n-propylamine	20.000	22.490	-12.4	67	0.00
23	M	Hexachloroethane	20.000	21.246	-6.2	65	-0.01
24	I	Naphthalene-d8	40.000	40.000	0.0	66	0.00
25	S	Nitrobenzene-d5	20.000	20.253	-1.3	68	0.00
26	M	Nitrobenzene	20.000	18.837	5.8	65	0.00
27	T	Isophorone	20.000	20.074	-0.4	68	0.00
28	C	2-Nitrophenol	20.000	18.696	6.5	65	0.00
29	T	2,4-Dimethylphenol	20.000	19.862	0.7	69	-0.01
30	T	Bis(2-chloroethoxy)methane	20.000	20.000	0.0	68	0.00
31	T	Benzoic acid	20.000	20.709	-3.5	75	-0.02
32	C	2,4-Dichlorophenol	20.000	18.948	5.3	66	-0.01
33	M	1,2,4-Trichlorobenzene	20.000	19.076	4.6	66	0.00
34	M	Naphthalene	20.000	19.821	0.9	67	0.00
35	T	4-Chloroaniline	20.000	19.554	2.2	66	0.00
36		2,6-Dichlorophenol	20.000	18.948	5.3	66	-0.01
37	CM	Hexachlorobutadiene	20.000	19.178	4.1	65	0.00
38	T	Caprolactam	20.000	21.638	-8.2	79	0.00
39	MC	4-Chloro-3-methylphenol	20.000	19.884	0.6	71	0.00
40		2-Methylnaphthalene	20.000	20.072	-0.4	68	0.00
41	T	1-Methylnaphthalene	20.000	20.642	-3.2	70	0.00
42	T	1,1`-Biphenyl	20.000	21.033	-5.2	70	0.00
43	I	Acenaphthene-d10	40.000	40.000	0.0	70	0.01
44	P	Hexachlorocyclopentadiene	20.000	19.007	5.0	64	0.00
45		1,2,4,5-Tetrachlorobenzene	20.000	18.652	6.7	67	0.00
46	CM	2,4,6-Trichlorophenol	20.000	18.730	6.3	69	0.00
47	M	2,4,5-Trichlorophenol	20.000	19.896	0.5	74	0.00
48	S	2-Fluorobiphenyl	20.000	20.696	-3.5	73	0.00
49		1,3-Dinitrobenzene	20.000	20.324	-1.6	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	T	2-Chloronaphthalene	20.000	20.061	-0.3	70	0.00
51	T	2-Nitroaniline	20.000	19.475	2.6	73	0.00
52	T	Dimethylphthalate	20.000	20.799	-4.0	76	0.00
53		2,3,5,6-Tetrachlorophenol	20.000	19.597	2.0	74	0.02
54		2,3,4,6-Tetrachlorophenol	20.000	20.644	-3.2	77	0.02
55	M	Acenaphthylene	20.000	20.083	-0.4	72	0.01
56	T	2,6-Dinitrotoluene	20.000	20.335	-1.7	74	0.01
57	T	3-Nitroaniline	20.000	19.569	2.2	73	0.01
58	MC	Acenaphthene	20.000	20.192	-1.0	75	0.02
59	P	2,4-Dinitrophenol	20.000	23.548	-17.7	98	0.01
60	T	Dibenzofuran	20.000	20.138	-0.7	73	0.02
61	MP	4-Nitrophenol	20.000	18.586	7.1	75	0.02
62	M	2,4-Dinitrotoluene	20.000	20.335	-1.7	74	0.01
63	T	Diethylphthalate	20.000	21.349	-6.7	78	0.02
64	M	Fluorene	20.000	20.469	-2.3	75	0.02
65	T	4-Chlorophenyl phenyl ether	20.000	19.822	0.9	74	0.02
66	T	4-Nitroaniline	20.000	22.405	-12.0	83	0.02
67	T	Atrazine	20.000	21.115	-5.6	75	0.04
68	I	Phenanthrene-d10	40.000	40.000	0.0	78	0.05
69	T	4,6-Dinitro-2-methylphenol	20.000	19.806	1.0	88	0.02
70	C	N-Nitrosodiphenylamine	20.000	19.099	4.5	75	0.02
71	T	1,2-Diphenylhydrazine	20.000	19.712	1.4	76	0.03
72	S	2,4,6-Tribromophenol	20.000	19.621	1.9	77	0.03
73	T	4-Bromophenyl phenyl ether	20.000	18.268	8.7	74	0.04
74	M	Hexachlorobenzene	20.000	19.302	3.5	77	0.04
75	MC	Pentachlorophenol	20.000	19.767	1.2	85	0.05
76	M	Phenanthrene	20.000	19.807	1.0	80	0.05
77	M	Anthracene	20.000	20.018	-0.1	80	0.05
78	T	Carbazole	20.000	20.415	-2.1	83	0.06
79	T	Di-n-butylphthalate	20.000	21.014	-5.1	84	0.08
80	CM	Fluoranthene	20.000	20.712	-3.6	87	0.08
81	I	Chrysene-d12	40.000	40.000	0.0	92	0.08
82		3,3-Dimethylbenzidine	20.000	18.000	10.0	86	0.09
83	T	Benzidine	20.000	16.702	16.5	79	0.09
84	M	Pyrene	20.000	19.595	2.0	87	0.08
85	S	4-Terphenyl-d14	20.000	19.765	1.2	90	0.09
86	T	Butylbenzylphthalate	20.000	19.667	1.7	92	0.08
87	M	Benzo[a]anthracene	20.000	19.421	2.9	94	0.08
88	T	3,3'-Dichlorobenzidine	20.000	19.713	1.4	97	0.08
89	M	Chrysene	20.000	20.414	-2.1	98	0.08
90	T	Bis(2-ethylhexyl)phthalate	20.000	20.043	-0.2	96	0.08
91	I	Perylene-d12	40.000	40.000	0.0	116	0.04
92	C	Di-n-octylphthalate	20.000	17.548	12.3	104	0.05
93	M	Benzo(b)fluoranthene	20.000	16.947	15.3	102	0.05
94	M	Benzo(k)fluoranthene	20.000	19.599	2.0	114	0.05
95	CM	Benzo(a)pyrene	20.000	18.776	6.1	121	0.05
96	M	Indeno(1,2,3-cd)pyrene	20.000	18.443	7.8	114	0.01
97	M	Dibenz(a,h)anthracene	20.000	23.592	-18.0	159	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
98 M	Benzo(g,h,i)perylene	20.000	23.865	-19.3	159	0.01

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	62	0.00
2		1,4-Dioxane	0.285	0.294	-3.2	62	-0.01
3	M	Pyridine	0.792	0.877	-10.7	67	-0.01
4	T	N-Nitrosodimethylamine	0.411	0.352	14.4	70	0.00
5	S	2-Fluorophenol	0.697	0.783	-12.3	67	-0.02
6	T	Benzaldehyde	0.474	0.612	-29.1#	72	0.00
7	S	Phenol-d6	0.973	1.123	-15.4	67	-0.01
8	MC	Phenol	1.180	1.236	-4.7	65	-0.02
9	T	Aniline	1.194	1.286	-7.7	66	0.00
10	T	Bis(2-chloroethyl)ether	0.887	0.826	6.9	61	-0.01
11	MT	2-Chlorophenol	0.832	0.874	-5.0	63	-0.01
12	T	1,3-Dichlorobenzene	0.971	0.929	4.3	63	-0.01
13	MC	1,4-Dichlorobenzene	0.984	0.975	0.9	64	-0.01
14	T	Benzyl alcohol	0.583	0.604	-3.6	62	-0.01
15	T	1,2-Dichlorobenzene	0.957	0.936	2.2	64	0.00
16	M	2-Methylphenol	0.698	0.736	-5.4	64	-0.01
17	T	2,2'-Oxybis(1-chloropropane	1.068	1.050	1.7	67	0.00
18	M	3-Methylphenol	0.914	1.003	-9.7	66	-0.01
19	M	4-Methylphenol	0.915	1.012	-10.6	67	-0.01
20		3&4-Methylphenol	0.917	1.009	-10.0	67	-0.01
21	T	Acetophenone	1.308	1.343	-2.7	68	-0.01
22	MP	N-Nitrosodi-n-propylamine	0.659	0.700	-6.2	67	0.00
23	M	Hexachloroethane	0.341	0.357	-4.7	65	-0.01
24	I	Naphthalene-d8	1.000	1.000	0.0	66	0.00
25	S	Nitrobenzene-d5	0.352	0.382	-8.5	68	0.00
26	M	Nitrobenzene	0.167	0.174	-4.2	65	0.00
27	T	Isophorone	0.650	0.658	-1.2	68	0.00
28	C	2-Nitrophenol	0.180	0.190	-5.6	65	0.00
29	T	2,4-Dimethylphenol	0.321	0.339	-5.6	69	-0.01
30	T	Bis(2-chloroethoxy)methane	0.418	0.414	1.0	68	0.00
31	T	Benzoic acid	0.191	0.236	-23.6	75	-0.02
32	C	2,4-Dichlorophenol	0.282	0.298	-5.7	66	-0.01
33	M	1,2,4-Trichlorobenzene	0.338	0.323	4.4	66	0.00
34	M	Naphthalene	1.216	1.030	15.3	67	0.00
35	T	4-Chloroaniline	0.433	0.457	-5.5	66	0.00
36		2,6-Dichlorophenol	0.282	0.298	-5.7	66	-0.01
37	CM	Hexachlorobutadiene	0.179	0.168	6.1	65	0.00
38	T	Caprolactam	0.163	0.199	-22.1	79	0.00
39	MC	4-Chloro-3-methylphenol	0.300	0.329	-9.7	71	0.00
40		2-Methylnaphthalene	0.812	0.786	3.2	68	0.00
41	T	1-Methylnaphthalene	0.764	0.757	0.9	70	0.00
42	T	1,1`-Biphenyl	1.009	1.007	0.2	70	0.00
43	I	Acenaphthene-d10	1.000	1.000	0.0	70	0.01
44	P	Hexachlorocyclopentadiene	0.114	0.119	-4.4	64	0.00
45		1,2,4,5-Tetrachlorobenzene	0.562	0.508	9.6	67	0.00
46	CM	2,4,6-Trichlorophenol	0.329	0.342	-4.0	69	0.00
47	M	2,4,5-Trichlorophenol	0.356	0.398	-11.8	74	0.00
48	S	2-Fluorobiphenyl	1.241	1.284	-3.5	73	0.00
49		1,3-Dinitrobenzene	0.209	0.249	-19.1	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	2-Chloronaphthalene	1.148	1.086	5.4	70	0.00
51	T	2-Nitroaniline	0.265	0.302	-14.0	73	0.00
52	T	Dimethylphthalate	1.418	1.357	4.3	76	0.00
53		2,3,5,6-Tetrachlorophenol	0.307	0.345	-12.4	74	0.02
54		2,3,4,6-Tetrachlorophenol	0.332	0.376	-13.3	77	0.02
55	M	Acenaphthylene	1.686	1.621	3.9	72	0.01
56	T	2,6-Dinitrotoluene	0.288	0.330	-14.6	74	0.01
57	T	3-Nitroaniline	0.329	0.367	-11.6	73	0.01
58	MC	Acenaphthene	1.247	1.197	4.0	75	0.02
59	P	2,4-Dinitrophenol	0.152	0.186	-22.4	98	0.01
60	T	Dibenzofuran	1.791	1.665	7.0	73	0.02
61	MP	4-Nitrophenol	0.243	0.248	-2.1	75	0.02
62	M	2,4-Dinitrotoluene	0.288	0.330	-14.6	74	0.01
63	T	Diethylphthalate	1.375	1.389	-1.0	78	0.02
64	M	Fluorene	1.478	1.433	3.0	75	0.02
65	T	4-Chlorophenyl phenyl ether	0.685	0.656	4.2	74	0.02
66	T	4-Nitroaniline	0.348	0.456	-31.0#	83	0.02
67	T	Atrazine	0.284	0.347	-22.2	75	0.04
68	I	Phenanthrene-d10	1.000	1.000	0.0	78	0.05
69	T	4,6-Dinitro-2-methylphenol	0.114	0.149	-30.7#	88	0.02
70	C	N-Nitrosodiphenylamine	0.623	0.604	3.0	75	0.02
71	T	1,2-Diphenylhydrazine	0.674	0.648	3.9	76	0.03
72	S	2,4,6-Tribromophenol	0.120	0.117	2.5	77	0.03
73	T	4-Bromophenyl phenyl ether	0.221	0.202	8.6	74	0.04
74	M	Hexachlorobenzene	0.276	0.247	10.5	77	0.04
75	MC	Pentachlorophenol	0.122	0.137	-12.3	85	0.05
76	M	Phenanthrene	1.283	1.141	11.1	80	0.05
77	M	Anthracene	1.187	1.153	2.9	80	0.05
78	T	Carbazole	1.132	1.166	-3.0	83	0.06
79	T	Di-n-butylphthalate	1.225	1.337	-9.1	84	0.08
80	CM	Fluoranthene	1.513	1.537	-1.6	87	0.08
81	I	Chrysene-d12	1.000	1.000	0.0	92	0.08
82		3,3-Dimethylbenzidine	0.426	0.487	-14.3	86	0.09
83	T	Benzidine	0.371	0.369	0.5	79	0.09
84	M	Pyrene	1.122	1.083	3.5	87	0.08
85	S	4-Terphenyl-d14	0.726	0.759	-4.5	90	0.09
86	T	Butylbenzylphthalate	0.431	0.503	-16.7	92	0.08
87	M	Benzo[a]anthracene	1.355	1.180	12.9	94	0.08
88	T	3,3'-Dichlorobenzidine	0.256	0.309	-20.7	97	0.08
89	M	Chrysene	1.177	1.117	5.1	98	0.08
90	T	Bis(2-ethylhexyl)phthalate	0.546	0.677	-24.0	96	0.08
91	I	Perylene-d12	1.000	1.000	0.0	116	0.04
92	C	Di-n-octylphthalate	0.871	1.011	-16.1	104	0.05
93	M	Benzo(b)fluoranthene	1.082	1.036	4.3	102	0.05
94	M	Benzo(k)fluoranthene	1.107	1.187	-7.2	114	0.05
95	CM	Benzo(a)pyrene	0.991	1.116	-12.6	121	0.05
96	M	Indeno(1,2,3-cd)pyrene	0.805	0.944	-17.3	114	0.01
97	M	Dibenz(a,h)anthracene	0.855	1.136	-32.9#	159#	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
98	M	Benzo(g,h,i)perylene	0.918	1.156	-25.9#	159#	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 10:02:38 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	349625	40.00	ug/ml	0.00
24) Naphthalene-d8	4.01	136	999804	40.00	ug/ml	0.00
43) Acenaphthene-d10	5.15	164	724248	40.00	ug/ml	0.01
68) Phenanthrene-d10	6.24	188	1489231	40.00	ug/ml	0.05
81) Chrysene-d12	8.85	240	2114150	40.00	ug/ml	0.08
91) Perylene-d12	11.31	264	2322807	40.00	ug/ml	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	2.59	112	136922	22.48	ug/ml	-0.02
Spiked Amount 50.000	Range 7 - 75		Recovery = 44.96%			
7) Phenol-d6	3.06	99	196271	21.86	ug/ml	-0.01
Spiked Amount 50.000	Range 3 - 67		Recovery = 43.72%			
25) Nitrobenzene-d5	3.58	82	191161	20.25	ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 40.50%			
48) 2-Fluorobiphenyl	4.69	172	464868	20.70	ug/ml	0.00
Spiked Amount 50.000	Range 20 - 122		Recovery = 41.40%			
72) 2,4,6-Tribromophenol	5.71	330	87252	19.62	ug/ml	0.03
Spiked Amount 50.000	Range 24 - 162		Recovery = 39.24%			
85) 4-Terphenyl-d14	7.58	244	802250	19.76	ug/ml	0.09
Spiked Amount 50.000	Range 22 - 172		Recovery = 39.52%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.88	88	51374m	22.23	ug/ml	
3) Pyridine	2.02	79	153351	21.68	ug/ml	94
4) N-Nitrosodimethylamine	2.00	42	61559	22.84	ug/ml	75
6) Benzaldehyde	3.03	77	106914	22.43	ug/ml	83
8) Phenol	3.06	94	216009	21.14	ug/ml	75
9) Aniline	3.09	93	224895	21.86	ug/ml	87
10) Bis(2-chloroethyl)ether	3.10	93	144333	20.06	ug/ml	90
11) 2-Chlorophenol	3.16	128	152812	20.47	ug/ml	92
12) 1,3-Dichlorobenzene	3.23	146	162422	20.92	ug/ml	97
13) 1,4-Dichlorobenzene	3.27	146	170434	19.82	ug/ml	94
14) Benzyl alcohol	3.33	108	105531	19.63	ug/ml#	75
15) 1,2-Dichlorobenzene	3.36	146	163703	19.56	ug/ml	96
16) 2-Methylphenol	3.40	107	128578	21.06	ug/ml	93
17) 2,2'-Oxybis(1-chloropropan	3.40	45	183586	22.92	ug/ml	75
18) 3-Methylphenol	3.49	107	175416m	21.96	ug/ml	
19) 4-Methylphenol	3.49	107	176968m	22.12	ug/ml	
20) 3&4-Methylphenol	3.49	107	176362	22.00	ug/ml#	50
21) Acetophenone	3.49	105	234835	22.72	ug/ml	90
22) N-Nitrosodi-n-propylamine	3.48	70	122397	22.49	ug/ml	95
23) Hexachloroethane	3.56	117	62484	21.25	ug/ml	92
26) Nitrobenzene	3.59	123	86775	18.84	ug/ml#	75
27) Isophorone	3.73	82	329121	20.07	ug/ml	95
28) 2-Nitrophenol	3.78	139	94741	18.70	ug/ml	75
29) 2,4-Dimethylphenol	3.79	107	169490	19.86	ug/ml	91
30) Bis(2-chloroethoxy)methane	3.84	93	206978	20.00	ug/ml	95
31) Benzoic acid	3.84	122	118030	20.71	ug/ml#	72
32) 2,4-Dichlorophenol	3.93	162	149001	18.95	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.97	180	161376	19.08	ug/ml	96
34) Naphthalene	4.03	128	515091	19.82	ug/ml	93
35) 4-Chloroaniline	4.06	127	228700	19.55	ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 10:02:38 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.93	162	149001	18.95 ug/ml	98
37) Hexachlorobutadiene	4.09	225	83918	19.18 ug/ml	98
38) Caprolactam	4.27	55	99253	21.64 ug/ml	79
39) 4-Chloro-3-methylphenol	4.36	107	164342	19.88 ug/ml	89
40) 2-Methylnaphthalene	4.46	142	393055	20.07 ug/ml	93
41) 1-Methylnaphthalene	4.53	142	378588	20.64 ug/ml	91
42) 1,1`-Biphenyl	4.76	154	503639	21.03 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	43006	19.01 ug/ml	98
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	183907	18.65 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	123880	18.73 ug/ml	99
47) 2,4,5-Trichlorophenol	4.68	196	143994	19.90 ug/ml	99
49) 1,3-Dinitrobenzene	4.98	168	90239	20.32 ug/ml	95
50) 2-Chloronaphthalene	4.78	162	393244	20.06 ug/ml	96
51) 2-Nitroaniline	4.84	65	109309	19.48 ug/ml#	75
52) Dimethylphthalate	4.96	163	491373	20.80 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.35	232	124780	19.60 ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.38	232	136336	20.64 ug/ml	98
55) Acenaphthylene	5.06	152	586935	20.08 ug/ml	99
56) 2,6-Dinitrotoluene	5.00	165	119530	20.33 ug/ml#	72
57) 3-Nitroaniline	5.13	138	132945	19.57 ug/ml#	81
58) Acenaphthene	5.18	154	433416	20.19 ug/ml	99
59) 2,4-Dinitrophenol	5.20	184	67177m	23.55 ug/ml	
60) Dibenzofuran	5.30	168	602857	20.14 ug/ml	96
61) 4-Nitrophenol	5.26	65	89689	18.59 ug/ml	88
62) 2,4-Dinitrotoluene	5.00	165	119530	20.33 ug/ml#	72
63) Diethylphthalate	5.44	149	503099	21.35 ug/ml	100
64) Fluorene	5.54	166	518867	20.47 ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.53	204	237556	19.82 ug/ml	94
66) 4-Nitroaniline	5.55	138	165244	22.41 ug/ml#	27
67) Atrazine	6.00	200	125602	21.11 ug/ml	95
69) 4,6-Dinitro-2-methylphenol	5.57	198	110779	19.81 ug/ml	95
70) N-Nitrosodiphenylamine	5.61	169	449405	19.10 ug/ml	98
71) 1,2-Diphenylhydrazine	5.64	77	482278	19.71 ug/ml	95
73) 4-Bromophenyl phenyl ether	5.89	248	150635	18.27 ug/ml	94
74) Hexachlorobenzene	5.94	284	183596	19.30 ug/ml	92
75) Pentachlorophenol	6.09	266	102353	19.77 ug/ml	98
76) Phenanthrene	6.26	178	849621	19.81 ug/ml	99
77) Anthracene	6.29	178	858261	20.02 ug/ml	99
78) Carbazole	6.42	167	868533	20.42 ug/ml	95
79) Di-n-butylphthalate	6.68	149	995374	21.01 ug/ml	98
80) Fluoranthene	7.43	202	1144646	20.71 ug/ml	91
82) 3,3-Dimethylbenzidine	8.10	212	514759	18.00 ug/ml	94
83) Benzidine	7.35	184	390569	16.70 ug/ml	90
84) Pyrene	7.43	202	1144646	19.59 ug/ml	94
86) Butylbenzylphthalate	8.11	149	531902	19.67 ug/ml	93
87) Benzo[a]anthracene	8.83	228	1247104	19.42 ug/ml	96
88) 3,3'-Dichlorobenzidine	8.81	252	326287	19.71 ug/ml	97
89) Chrysene	8.89	228	1180306	20.41 ug/ml	97
90) Bis(2-ethylhexyl)phthalate	8.89	149	716009	20.04 ug/ml	83
92) Di-n-octylphthalate	9.98	149	1174656	17.55 ug/ml	99
93) Benzo(b)fluoranthene	10.59	252	1202986	16.95 ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 10:02:38 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

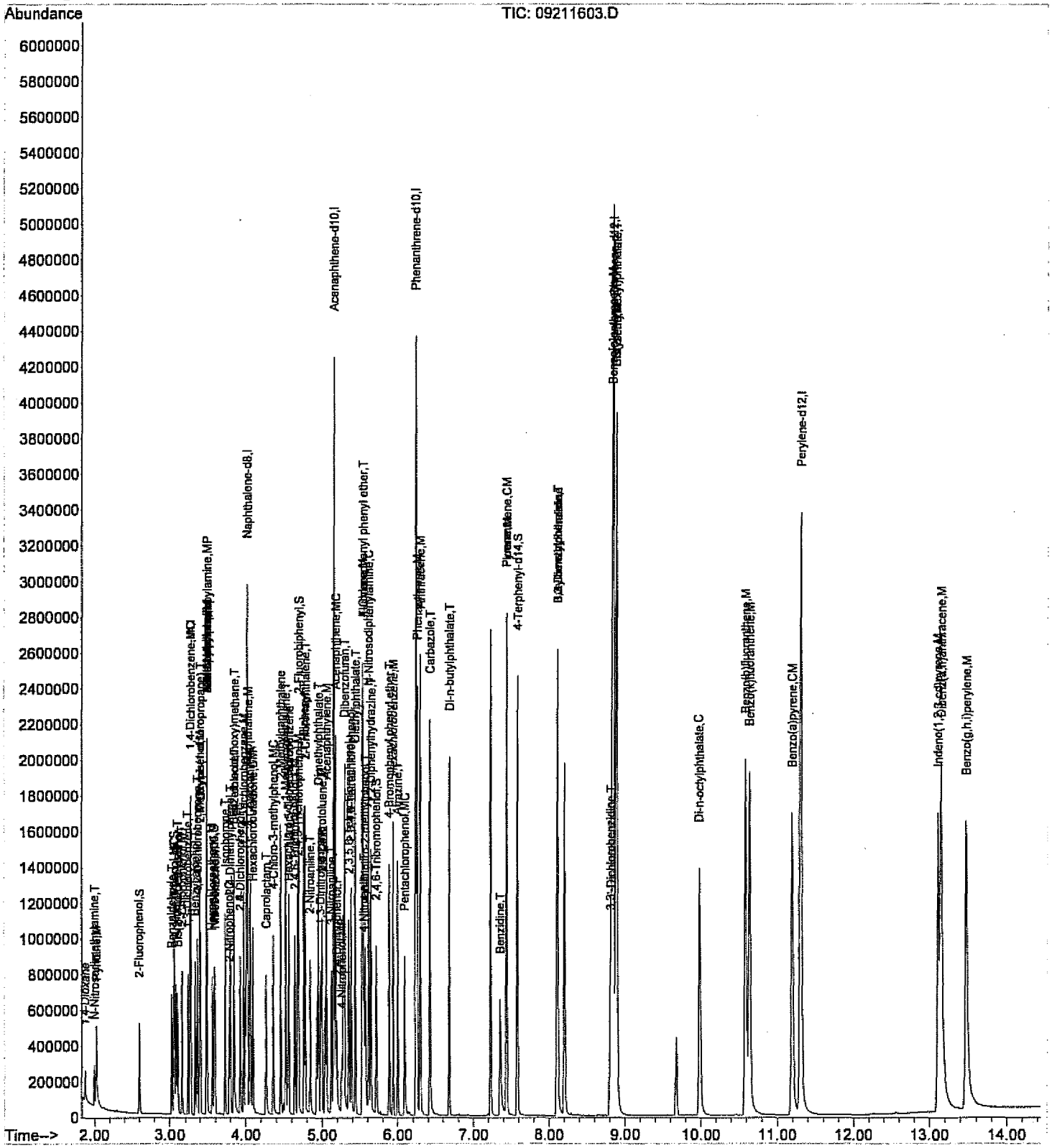
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94) Benzo(k)fluoranthene	10.64	252	1378778	19.60 ug/ml	96
95) Benzo(a)pyrene	11.19	252	1295980	18.78 ug/ml	94
96) Indeno(1,2,3-cd)pyrene	13.11	276	1096540m	18.44 ug/ml	
97) Dibenz(a,h)anthracene	13.15	278	1318841	23.59 ug/ml	93
98) Benzo(g,h,i)perylene	13.47	276	1343151	23.86 ug/ml	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211603.D Vial: 3
Acq On : 21 Sep 2016 9:47 am Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 10:05 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	104	0.00
2		1,4-Dioxane	20.000	21.944	-9.7	103	0.00
3	M	Pyridine	20.000	20.769	-3.8	108	0.00
4	T	N-Nitrosodimethylamine	20.000	20.973	-4.9	107	0.00
5	S	2-Fluorophenol	20.000	22.611	-13.1	113	-0.01
6	T	Benzaldehyde	20.000	21.072	-5.4	114	0.00
7	S	Phenol-d6	20.000	20.764	-3.8	107	-0.01
8	MC	Phenol	20.000	20.303	-1.5	105	-0.02
9	T	Aniline	20.000	20.160	-0.8	102	0.00
10	T	Bis(2-chloroethyl)ether	20.000	20.501	-2.5	105	-0.01
11	MT	2-Chlorophenol	20.000	20.451	-2.3	106	-0.01
12	T	1,3-Dichlorobenzene	20.000	21.530	-7.7	108	0.00
13	MC	1,4-Dichlorobenzene	20.000	19.641	1.8	106	-0.01
14	T	Benzyl alcohol	20.000	18.515	7.4	99	0.00
15	T	1,2-Dichlorobenzene	20.000	19.780	1.1	108	0.00
16	M	2-Methylphenol	20.000	20.097	-0.5	103	-0.01
17	T	2,2'-Oxybis(1-chloropropane	20.000	21.718	-8.6	106	0.00
18	M	3-Methylphenol	20.000	20.575	-2.9	104	-0.01
19	M	4-Methylphenol	20.000	20.501	-2.5	104	-0.01
20		3&4-Methylphenol	20.000	20.474	-2.4	104	-0.01
21	T	Acetophenone	20.000	21.255	-6.3	108	-0.01
22	MP	N-Nitrosodi-n-propylamine	20.000	20.779	-3.9	105	0.00
23	M	Hexachloroethane	20.000	21.489	-7.4	110	-0.01
24	I	Naphthalene-d8	40.000	40.000	0.0	103	0.00
25	S	Nitrobenzene-d5	20.000	20.934	-4.7	110	0.00
26	M	Nitrobenzene	20.000	20.135	-0.7	108	0.00
27	T	Isophorone	20.000	19.767	1.2	104	0.00
28	C	2-Nitrophenol	20.000	19.678	1.6	106	0.00
29	T	2,4-Dimethylphenol	20.000	20.058	-0.3	108	0.00
30	T	Bis(2-chloroethoxy)methane	20.000	20.257	-1.3	107	0.00
31	T	Benzoic acid	20.000	19.110	4.5	106	-0.01
32	C	2,4-Dichlorophenol	20.000	19.475	2.6	106	0.00
33	M	1,2,4-Trichlorobenzene	20.000	19.670	1.6	105	0.00
34	M	Naphthalene	20.000	20.673	-3.4	108	0.00
35	T	4-Chloroaniline	20.000	19.235	3.8	102	0.00
36		2,6-Dichlorophenol	20.000	19.475	2.6	106	0.00
37	CM	Hexachlorobutadiene	20.000	20.309	-1.5	108	0.00
38	T	Caprolactam	20.000	18.247	8.8	103	0.00
39	MC	4-Chloro-3-methylphenol	20.000	19.269	3.7	108	0.00
40		2-Methylnaphthalene	20.000	20.028	-0.1	106	0.00
41	T	1-Methylnaphthalene	20.000	20.335	-1.7	107	0.00
42	T	1,1`-Biphenyl	20.000	20.251	-1.3	105	0.00
43	I	Acenaphthene-d10	40.000	40.000	0.0	102	0.02
44	P	Hexachlorocyclopentadiene	20.000	22.968	-14.8	118	0.00
45		1,2,4,5-Tetrachlorobenzene	20.000	19.954	0.2	105	0.00
46	CM	2,4,6-Trichlorophenol	20.000	19.350	3.2	104	0.00
47	M	2,4,5-Trichlorophenol	20.000	20.442	-2.2	110	0.00
48	S	2-Fluorobiphenyl	20.000	21.752	-8.8	111	0.00
49		1,3-Dinitrobenzene	20.000	19.815	0.9	109	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	T	2-Chloronaphthalene	20.000	20.595	-3.0	105	0.01
51	T	2-Nitroaniline	20.000	18.890	5.5	103	0.01
52	T	Dimethylphthalate	20.000	20.375	-1.9	108	0.01
53		2,3,5,6-Tetrachlorophenol	20.000	19.212	3.9	106	0.02
54		2,3,4,6-Tetrachlorophenol	20.000	19.704	1.5	107	0.02
55	M	Acenaphthylene	20.000	20.279	-1.4	106	0.02
56	T	2,6-Dinitrotoluene	20.000	20.075	-0.4	107	0.02
57	T	3-Nitroaniline	20.000	18.757	6.2	102	0.02
58	MC	Acenaphthene	20.000	20.226	-1.1	110	0.02
59	P	2,4-Dinitrophenol	20.000	23.042	-15.2	139	0.02
60	T	Dibenzofuran	20.000	20.156	-0.8	106	0.02
61	MP	4-Nitrophenol	20.000	16.907	15.5	99	0.02
62	M	2,4-Dinitrotoluene	20.000	20.075	-0.4	107	0.02
63	T	Diethylphthalate	20.000	20.388	-1.9	108	0.02
64	M	Fluorene	20.000	19.989	0.1	106	0.03
65	T	4-Chlorophenyl phenyl ether	20.000	19.971	0.1	108	0.03
66	T	4-Nitroaniline	20.000	19.941	0.3	107	0.03
67	T	Atrazine	20.000	18.989	5.1	100	0.05
68	I	Phenanthrene-d10	40.000	40.000	0.0	105	0.06
69	T	4,6-Dinitro-2-methylphenol	20.000	19.054	4.7	113	0.03
70	C	N-Nitrosodiphenylamine	20.000	19.863	0.7	105	0.04
71	T	1,2-Diphenylhydrazine	20.000	20.772	-3.9	108	0.04
72	S	2,4,6-Tribromophenol	20.000	20.456	-2.3	108	0.04
73	T	4-Bromophenyl phenyl ether	20.000	19.233	3.8	105	0.04
74	M	Hexachlorobenzene	20.000	19.399	3.0	104	0.05
75	MC	Pentachlorophenol	20.000	19.521	2.4	113	0.05
76	M	Phenanthrene	20.000	19.801	1.0	108	0.06
77	M	Anthracene	20.000	20.307	-1.5	109	0.06
78	T	Carbazole	20.000	19.672	1.6	108	0.07
79	T	Di-n-butylphthalate	20.000	20.450	-2.2	110	0.09
80	CM	Fluoranthene	20.000	19.453	2.7	110	0.10
81	I	Chrysene-d12	40.000	40.000	0.0	109	0.09
82		3,3-Dimethylbenzidine	20.000	17.837	10.8	101	0.11
83	T	Benzidine	20.000	16.419	17.9	92	0.11
84	M	Pyrene	20.000	20.896	-4.5	110	0.10
85	S	4-Terphenyl-d14	20.000	21.173	-5.9	114	0.11
86	T	Butylbenzylphthalate	20.000	20.082	-0.4	111	0.10
87	M	Benzo[a]anthracene	20.000	19.377	3.1	111	0.09
88	T	3,3'-Dichlorobenzidine	20.000	18.900	5.5	109	0.10
89	M	Chrysene	20.000	20.279	-1.4	115	0.09
90	T	Bis(2-ethylhexyl)phthalate	20.000	20.112	-0.6	114	0.09
91	I	Perylene-d12	40.000	40.000	0.0	116	0.05
92	C	Di-n-octylphthalate	20.000	19.601	2.0	117	0.07
93	M	Benzo(b)fluoranthene	20.000	17.744	11.3	107	0.07
94	M	Benzo(k)fluoranthene	20.000	21.416	-7.1	125	0.06
95	CM	Benzo(a)pyrene	20.000	19.016	4.9	122	0.06
96	M	Indeno(1,2,3-cd)pyrene	20.000	20.353	-1.8	126	0.02
97	M	Dibenz(a,h)anthracene	20.000	18.464	7.7	121	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
98 M	Benzo(g,h,i)perylene	20.000	17.774	11.1	117	0.02

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
2		1,4-Dioxane	0.285	0.290	-1.8	103	0.00
3	M	Pyridine	0.792	0.841	-6.2	108	0.00
4	T	N-Nitrosodimethylamine	0.411	0.324	21.2	107	0.00
5	S	2-Fluorophenol	0.697	0.788	-13.1	113	-0.01
6	T	Benzaldehyde	0.474	0.576	-21.5	114	0.00
7	S	Phenol-d6	0.973	1.067	-9.7	107	-0.01
8	MC	Phenol	1.180	1.188	-0.7	105	-0.02
9	T	Aniline	1.194	1.189	0.4	102	0.00
10	T	Bis(2-chloroethyl)ether	0.887	0.843	5.0	105	-0.01
11	MT	2-Chlorophenol	0.832	0.873	-4.9	106	-0.01
12	T	1,3-Dichlorobenzene	0.971	0.955	1.6	108	0.00
13	MC	1,4-Dichlorobenzene	0.984	0.966	1.8	106	-0.01
14	T	Benzyl alcohol	0.583	0.569	2.4	99	0.00
15	T	1,2-Dichlorobenzene	0.957	0.947	1.0	108	0.00
16	M	2-Methylphenol	0.698	0.702	-0.6	103	-0.01
17	T	2,2'-Oxybis(1-chloropropane	1.068	0.998	6.6	106	0.00
18	M	3-Methylphenol	0.914	0.940	-2.8	104	-0.01
19	M	4-Methylphenol	0.915	0.938	-2.5	104	-0.01
20		3&4-Methylphenol	0.917	0.939	-2.4	104	-0.01
21	T	Acetophenone	1.308	1.260	3.7	108	-0.01
22	MP	N-Nitrosodi-n-propylamine	0.659	0.649	1.5	105	0.00
23	M	Hexachloroethane	0.341	0.361	-5.9	110	-0.01
24	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00
25	S	Nitrobenzene-d5	0.352	0.396	-12.5	110	0.00
26	M	Nitrobenzene	0.167	0.186	-11.4	108	0.00
27	T	Isophorone	0.650	0.648	0.3	104	0.00
28	C	2-Nitrophenol	0.180	0.200	-11.1	106	0.00
29	T	2,4-Dimethylphenol	0.321	0.342	-6.5	108	0.00
30	T	Bis(2-chloroethoxy)methane	0.418	0.419	-0.2	107	0.00
31	T	Benzoic acid	0.191	0.215	-12.6	106	-0.01
32	C	2,4-Dichlorophenol	0.282	0.307	-8.9	106	0.00
33	M	1,2,4-Trichlorobenzene	0.338	0.333	1.5	105	0.00
34	M	Naphthalene	1.216	1.074	11.7	108	0.00
35	T	4-Chloroaniline	0.433	0.450	-3.9	102	0.00
36		2,6-Dichlorophenol	0.282	0.307	-8.9	106	0.00
37	CM	Hexachlorobutadiene	0.179	0.178	0.6	108	0.00
38	T	Caprolactam	0.163	0.166	-1.8	103	0.00
39	MC	4-Chloro-3-methylphenol	0.300	0.318	-6.0	108	0.00
40		2-Methylnaphthalene	0.812	0.785	3.3	106	0.00
41	T	1-Methylnaphthalene	0.764	0.746	2.4	107	0.00
42	T	1,1`-Biphenyl	1.009	0.970	3.9	105	0.00
43	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.02
44	P	Hexachlorocyclopentadiene	0.114	0.151	-32.5#	118	0.00
45		1,2,4,5-Tetrachlorobenzene	0.562	0.544	3.2	105	0.00
46	CM	2,4,6-Trichlorophenol	0.329	0.354	-7.6	104	0.00
47	M	2,4,5-Trichlorophenol	0.356	0.409	-14.9	110	0.00
48	S	2-Fluorobiphenyl	1.241	1.349	-8.7	111	0.00
49		1,3-Dinitrobenzene	0.209	0.243	-16.3	109	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	2-Chloronaphthalene	1.148	1.115	2.9	105	0.01
51	T	2-Nitroaniline	0.265	0.292	-10.2	103	0.01
52	T	Dimethylphthalate	1.418	1.329	6.3	108	0.01
53		2,3,5,6-Tetrachlorophenol	0.307	0.338	-10.1	106	0.02
54		2,3,4,6-Tetrachlorophenol	0.332	0.359	-8.1	107	0.02
55	M	Acenaphthylene	1.686	1.637	2.9	106	0.02
56	T	2,6-Dinitrotoluene	0.288	0.326	-13.2	107	0.02
57	T	3-Nitroaniline	0.329	0.351	-6.7	102	0.02
58	MC	Acenaphthene	1.247	1.199	3.8	110	0.02
59	P	2,4-Dinitrophenol	0.152	0.180	-18.4	139	0.02
60	T	Dibenzofuran	1.791	1.666	7.0	106	0.02
61	MP	4-Nitrophenol	0.243	0.223	8.2	99	0.02
62	M	2,4-Dinitrotoluene	0.288	0.326	-13.2	107	0.02
63	T	Diethylphthalate	1.375	1.327	3.5	108	0.02
64	M	Fluorene	1.478	1.399	5.3	106	0.03
65	T	4-Chlorophenyl phenyl ether	0.685	0.661	3.5	108	0.03
66	T	4-Nitroaniline	0.348	0.405	-16.4	107	0.03
67	T	Atrazine	0.284	0.317	-11.6	100	0.05
68	I	Phenanthrene-d10	1.000	1.000	0.0	105	0.06
69	T	4,6-Dinitro-2-methylphenol	0.114	0.143	-25.4#	113	0.03
70	C	N-Nitrosodiphenylamine	0.623	0.628	-0.8	105	0.04
71	T	1,2-Diphenylhydrazine	0.674	0.683	-1.3	108	0.04
72	S	2,4,6-Tribromophenol	0.120	0.122	-1.7	108	0.04
73	T	4-Bromophenyl phenyl ether	0.221	0.213	3.6	105	0.04
74	M	Hexachlorobenzene	0.276	0.248	10.1	104	0.05
75	MC	Pentachlorophenol	0.122	0.136	-11.5	113	0.05
76	M	Phenanthrene	1.283	1.141	11.1	108	0.06
77	M	Anthracene	1.187	1.169	1.5	109	0.06
78	T	Carbazole	1.132	1.123	0.8	108	0.07
79	T	Di-n-butylphthalate	1.225	1.301	-6.2	110	0.09
80	CM	Fluoranthene	1.513	1.442	4.7	110	0.10
81	I	Chrysene-d12	1.000	1.000	0.0	109	0.09
82		3,3-Dimethylbenzidine	0.426	0.482	-13.1	101	0.11
83	T	Benzidine	0.371	0.362	2.4	92	0.11
84	M	Pyrene	1.122	1.155	-2.9	110	0.10
85	S	4-Terphenyl-d14	0.726	0.814	-12.1	114	0.11
86	T	Butylbenzylphthalate	0.431	0.514	-19.3	111	0.10
87	M	Benzo[a]anthracene	1.355	1.177	13.1	111	0.09
88	T	3,3'-Dichlorobenzidine	0.256	0.294	-14.8	109	0.10
89	M	Chrysene	1.177	1.109	5.8	115	0.09
90	T	Bis(2-ethylhexyl)phthalate	0.546	0.680	-24.5	114	0.09
91	I	Perylene-d12	1.000	1.000	0.0	116	0.05
92	C	Di-n-octylphthalate	0.871	1.145	-31.5#	117	0.07
93	M	Benzo(b)fluoranthene	1.082	1.088	-0.6	107	0.07
94	M	Benzo(k)fluoranthene	1.107	1.300	-17.4	125	0.06
95	CM	Benzo(a)pyrene	0.991	1.131	-14.1	122	0.06
96	M	Indeno(1,2,3-cd)pyrene	0.805	1.048	-30.2#	126	0.02
97	M	Dibenz(a,h)anthracene	0.855	0.869	-1.6	121	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
98 M	Benzo(g,h,i)perylene	0.918	0.856	6.8	117	0.02

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:01:56 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	586408	40.00 ug/ml	0.00
24) Naphthalene-d8	4.01	136	1554633	40.00 ug/ml	0.00
43) Acenaphthene-d10	5.16	164	1053492	40.00 ug/ml	0.02
68) Phenanthrene-d10	6.25	188	2004089	40.00 ug/ml	0.06
81) Chrysene-d12	8.87	240	2502365	40.00 ug/ml	0.09
91) Perylene-d12	11.32	264	2317589	40.00 ug/ml	0.05
System Monitoring Compounds					
5) 2-Fluorophenol	2.60	112	230952	22.61 ug/ml	-0.01
Spiked Amount 50.000	Range 7 - 75		Recovery = 45.22%		
7) Phenol-d6	3.06	99	312785	20.76 ug/ml	-0.01
Spiked Amount 50.000	Range 3 - 67		Recovery = 41.52%		
25) Nitrobenzene-d5	3.58	82	307467	20.93 ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 41.86%		
48) 2-Fluorobiphenyl	4.70	172	710723	21.75 ug/ml	0.00
Spiked Amount 50.000	Range 20 - 122		Recovery = 43.50%		
72) 2,4,6-Tribromophenol	5.72	330	122546	20.46 ug/ml	0.04
Spiked Amount 50.000	Range 24 - 162		Recovery = 40.92%		
85) 4-Terphenyl-d14	7.60	244	1018483	21.17 ug/ml	0.11
Spiked Amount 50.000	Range 22 - 172		Recovery = 42.34%		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.88	88	85117m	21.94 ug/ml	
3) Pyridine	2.03	79	246469	20.77 ug/ml	94
4) N-Nitrosodimethylamine	2.00	42	95072	20.97 ug/ml#	75
6) Benzaldehyde	3.03	77	168850	21.07 ug/ml	82
8) Phenol	3.06	94	348181	20.30 ug/ml	73
9) Aniline	3.09	93	348599	20.16 ug/ml	90
10) Bis(2-chloroethyl)ether	3.10	93	247213	20.50 ug/ml	87
11) 2-Chlorophenol	3.16	128	256047	20.45 ug/ml	92
12) 1,3-Dichlorobenzene	3.24	146	280153	21.53 ug/ml	97
13) 1,4-Dichlorobenzene	3.27	146	283225	19.64 ug/ml	94
14) Benzyl alcohol	3.34	108	166949	18.52 ug/ml#	74
15) 1,2-Dichlorobenzene	3.36	146	277638	19.78 ug/ml	96
16) 2-Methylphenol	3.40	107	205787	20.10 ug/ml	92
17) 2,2'-Oxybis(1-chloropropan	3.40	45	292473	21.72 ug/ml	76
18) 3-Methylphenol	3.49	107	275694m	20.58 ug/ml	
19) 4-Methylphenol	3.49	107	275107m	20.50 ug/ml	
20) 3&4-Methylphenol	3.49	107	275244	20.47 ug/ml#	51
21) Acetophenone	3.49	105	369493	21.25 ug/ml	92
22) N-Nitrosodi-n-propylamine	3.48	70	190146	20.78 ug/ml	94
23) Hexachloroethane	3.56	117	105974	21.49 ug/ml	96
26) Nitrobenzene	3.59	123	144474	20.14 ug/ml#	71
27) Isophorone	3.73	82	503818	19.77 ug/ml	94
28) 2-Nitrophenol	3.78	139	155504	19.68 ug/ml	72
29) 2,4-Dimethylphenol	3.80	107	266214	20.06 ug/ml	91
30) Bis(2-chloroethoxy)methane	3.84	93	326008	20.26 ug/ml	96
31) Benzoic acid	3.85	122	167225	19.11 ug/ml#	75
32) 2,4-Dichlorophenol	3.93	162	238423	19.47 ug/ml	98
33) 1,2,4-Trichlorobenzene	3.98	180	258745	19.67 ug/ml	98
34) Naphthalene	4.03	128	835126	20.67 ug/ml	92
35) 4-Chloroaniline	4.06	127	349769	19.23 ug/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:01:56 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) 2,6-Dichlorophenol	3.93	162	238423	19.47	ug/ml	98
37) Hexachlorobutadiene	4.10	225	138293	20.31	ug/ml	98
38) Caprolactam	4.27	55	129383	18.25	ug/ml	81
39) 4-Chloro-3-methylphenol	4.36	107	247411	19.27	ug/ml	91
40) 2-Methylnaphthalene	4.46	142	609847	20.03	ug/ml	94
41) 1-Methylnaphthalene	4.53	142	579916	20.34	ug/ml	90
42) 1,1`-Biphenyl	4.76	154	754312	20.25	ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	79367	22.97	ug/ml	99
45) 1,2,4,5-Tetrachlorobenzene	4.57	216	286580	19.95	ug/ml	98
46) 2,4,6-Trichlorophenol	4.64	196	186410	19.35	ug/ml	99
47) 2,4,5-Trichlorophenol	4.68	196	215439	20.44	ug/ml	99
49) 1,3-Dinitrobenzene	4.99	168	127821	19.82	ug/ml	95
50) 2-Chloronaphthalene	4.78	162	587201	20.60	ug/ml	96
51) 2-Nitroaniline	4.85	65	154034	18.89	ug/ml#	74
52) Dimethylphthalate	4.96	163	700118	20.38	ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.36	232	177834	19.21	ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.39	232	189117	19.70	ug/ml	99
55) Acenaphthylene	5.07	152	862117	20.28	ug/ml	99
56) 2,6-Dinitrotoluene	5.01	165	171588	20.08	ug/ml#	72
57) 3-Nitroaniline	5.13	138	185071	18.76	ug/ml	83
58) Acenaphthene	5.18	154	631520	20.23	ug/ml	98
59) 2,4-Dinitrophenol	5.20	184	94985	23.04	ug/ml	88
60) Dibenzofuran	5.30	168	877700	20.16	ug/ml	97
61) 4-Nitrophenol	5.27	65	117548	16.91	ug/ml	86
62) 2,4-Dinitrotoluene	5.01	165	171588	20.08	ug/ml#	72
63) Diethylphthalate	5.44	149	698835	20.39	ug/ml	100
64) Fluorene	5.54	166	736987	19.99	ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.54	204	348182	19.97	ug/ml	93
66) 4-Nitroaniline	5.56	138	213351	19.94	ug/ml#	27
67) Atrazine	6.01	200	166989	18.99	ug/ml	96
69) 4,6-Dinitro-2-methylphenol	5.58	198	142922	19.05	ug/ml	94
70) N-Nitrosodiphenylamine	5.62	169	629242	19.86	ug/ml	98
71) 1,2-Diphenylhydrazine	5.65	77	683976	20.77	ug/ml	94
73) 4-Bromophenyl phenyl ether	5.89	248	213707	19.23	ug/ml	94
74) Hexachlorobenzene	5.95	284	248328	19.40	ug/ml	93
75) Pentachlorophenol	6.10	266	135832	19.52	ug/ml	98
76) Phenanthrene	6.27	178	1143015	19.80	ug/ml	100
77) Anthracene	6.31	178	1171789	20.31	ug/ml	99
78) Carbazole	6.44	167	1125752	19.67	ug/ml	95
79) Di-n-butylphthalate	6.69	149	1303167	20.45	ug/ml	98
80) Fluoranthene	7.45	202	1445264	19.45	ug/ml	92
82) 3,3-Dimethylbenzidine	8.12	212	602814	17.84	ug/ml	95
83) Benzidine	7.37	184	453312	16.42	ug/ml	90
84) Pyrene	7.45	202	1445264	20.90	ug/ml	94
86) Butylbenzylphthalate	8.13	149	643295	20.08	ug/ml	93
87) Benzo[a]anthracene	8.85	228	1472651	19.38	ug/ml	96
88) 3,3'-Dichlorobenzidine	8.83	252	368029	18.90	ug/ml	96
89) Chrysene	8.90	228	1387760	20.28	ug/ml	96
90) Bis(2-ethylhexyl)phthalate	8.91	149	850514	20.11	ug/ml	82
92) Di-n-octylphthalate	10.00	149	1327075	19.60	ug/ml	99
93) Benzo(b)fluoranthene	10.61	252	1260295	17.74	ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:01:56 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

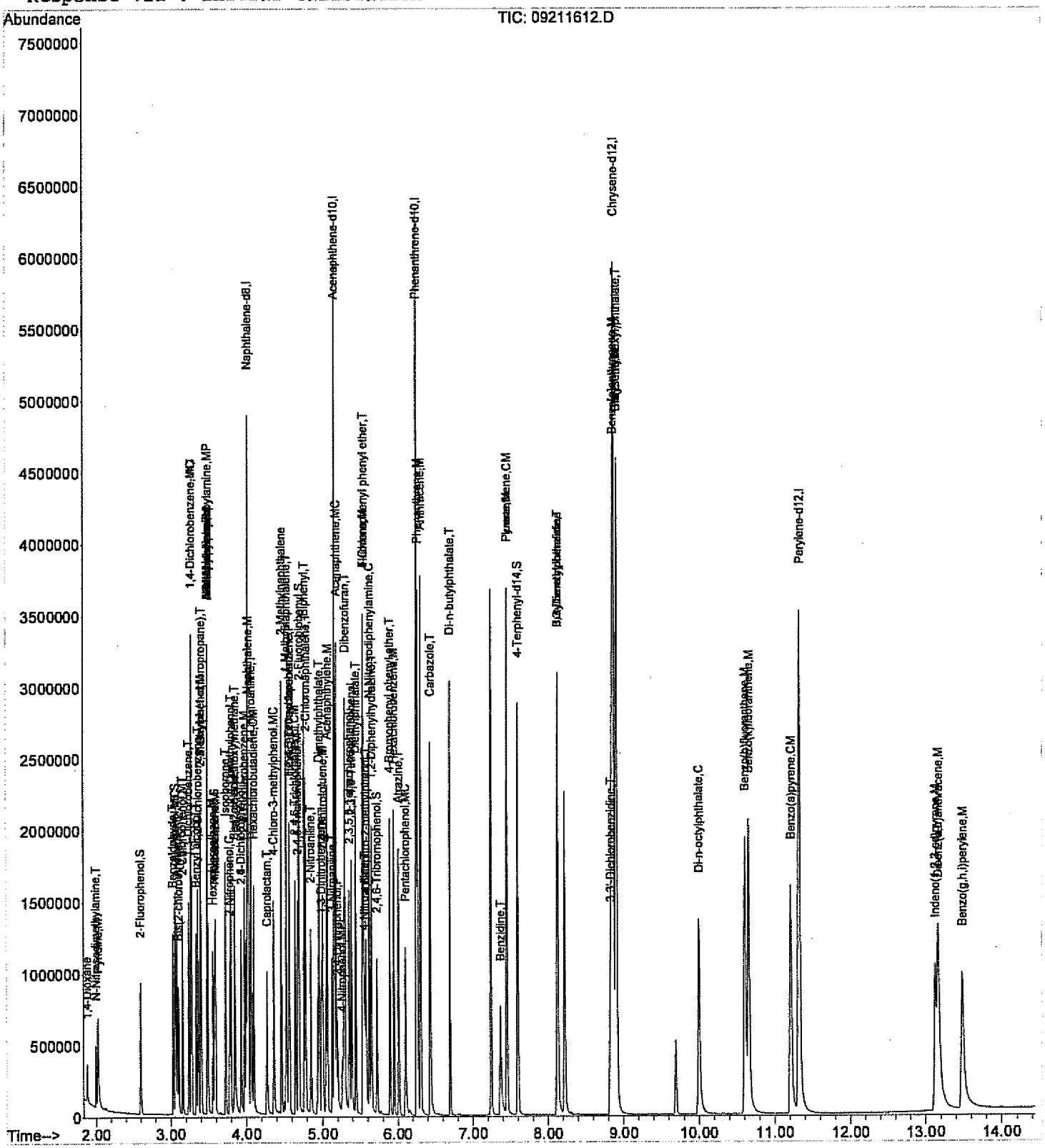
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	10.65	252	1506122	21.42 ug/ml	96
95)	Benzo(a)pyrene	11.21	252	1310662	19.02 ug/ml	95
96)	Indeno(1,2,3-cd)pyrene	13.12	276	1214249m	20.35 ug/ml	
97)	Dibenz(a,h)anthracene	13.16	278	1007267	18.46 ug/ml	92
98)	Benzo(g,h,i)perylene	13.48	276	991907	17.77 ug/ml	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

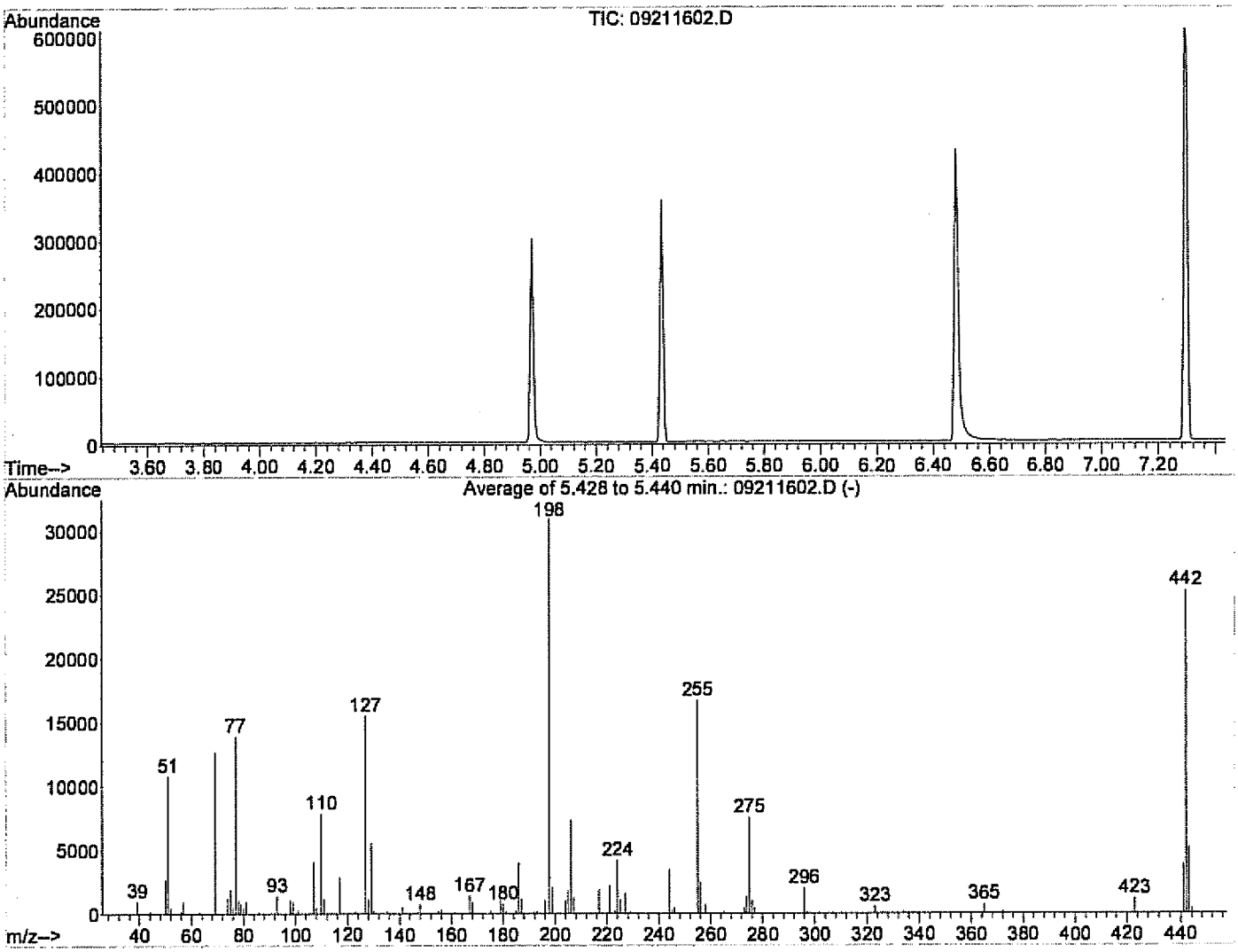
Data File : C:\MSDCHEM\1\DATA\5S092116\09211612.D Vial: 3
Acq On : 21 Sep 2016 1:10 pm Operator: JF
Sample : 20 ug/ml BNA Inst : SVMS5
Misc : 300.0090F Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:07 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



DFTPP

Data File : C:\MSDCHEM\1\DATA\5S092116\09211602.D Vial: 2
Acq On : 21 Sep 2016 9:30 am Operator: JF
Sample : 50ug/ml DFTPP Inst : SVMS5
Misc : 300.0063 Multiplr: 1.00
MS Integration Params: 8270.P
Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration

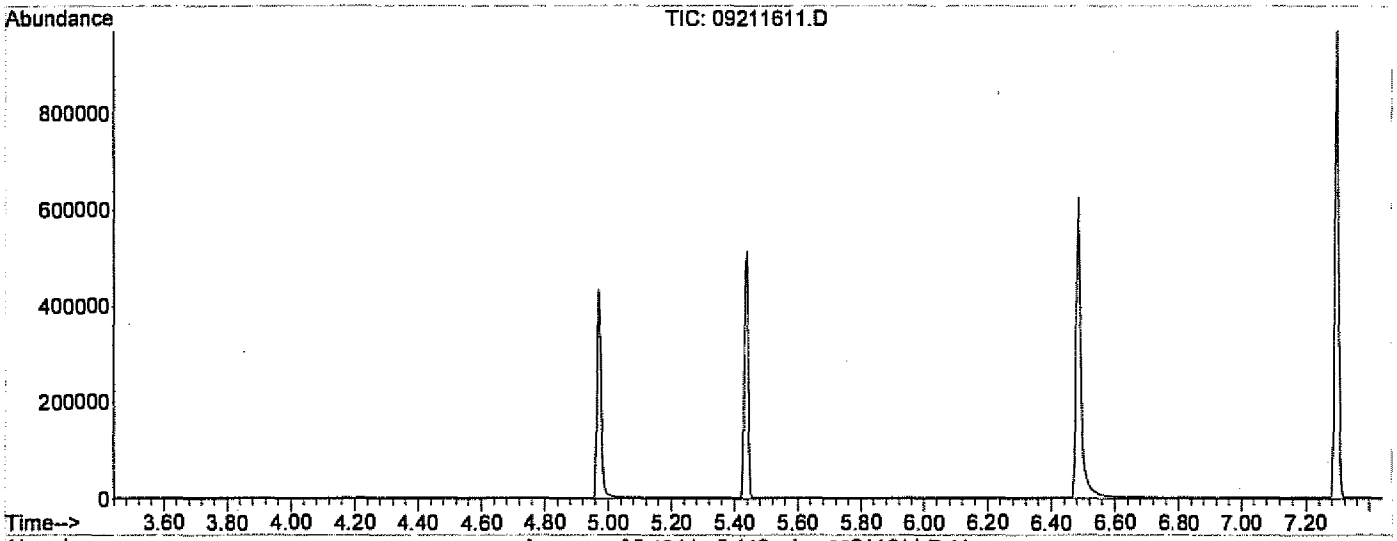


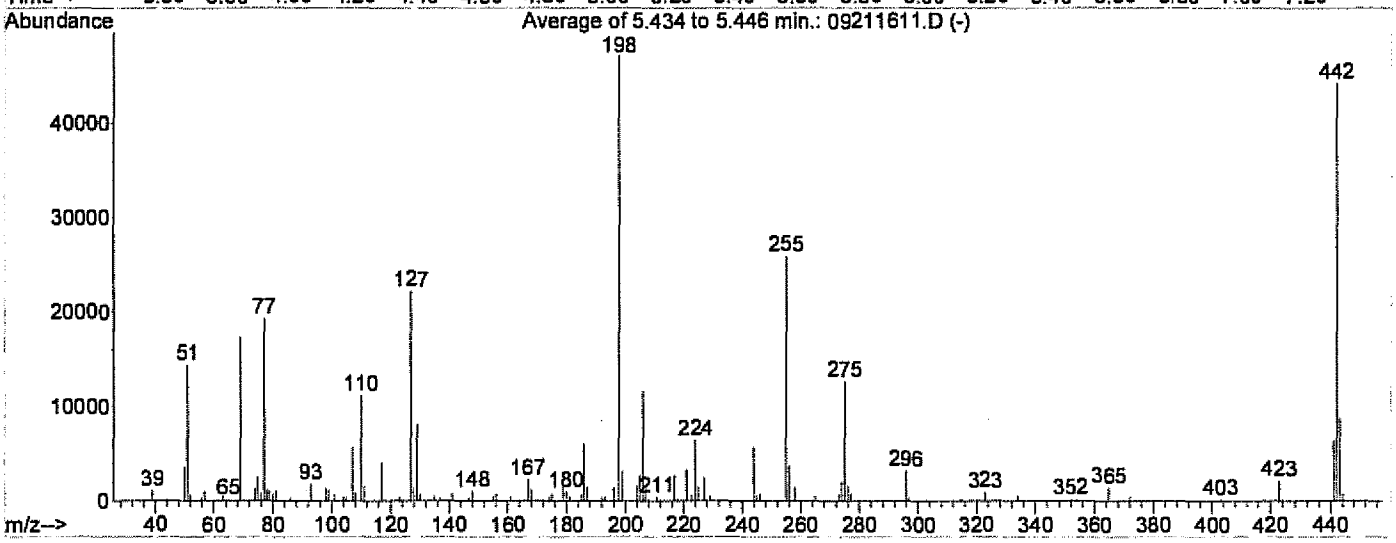
Spectrum Information: Average of 5.428 to 5.440 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	10804	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.1	12703	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	50.2	15538	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	30944	PASS
199	198	5	9	6.8	2095	PASS
275	198	10	60	24.4	7558	PASS
365	198	1	100	2.5	766	PASS
441	443	0.01	100	74.5	3866	PASS
442	198	50	100	81.8	25300	PASS
443	442	15	24	20.5	5189	PASS

DFTPP

Data File : C:\MSDCHEM\1\DATA\5S092116\09211611.D Vial: 2
Acq On : 21 Sep 2016 12:53 pm Operator: JF
Sample : 50ug/ml DFTPP Inst : SVMS5
Misc : 300.0063 Multiplr: 1.00
MS Integration Params: 8270.P
Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration





Spectrum Information: Average of 5.434 to 5.446 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.5	14403	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.8	17363	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	47.1	22205	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47177	PASS
199	198	5	9	6.8	3200	PASS
275	198	10	60	26.8	12632	PASS
365	198	1	100	3.0	1406	PASS
441	443	0.01	100	73.0	6417	PASS
442	198	50	100	93.8	44242	PASS
443	442	15	24	19.9	8795	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211604.D Vial: 4
Acq On : 21 Sep 2016 10:15 am Operator: JF
Sample : SBLKW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:05:37 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	331851	40.00 ug/ml	0.00
24) Naphthalene-d8	4.02	136	929901	40.00 ug/ml	0.00
43) Acenaphthene-d10	5.18	164	620074	40.00 ug/ml	0.04
68) Phenanthrene-d10	6.31	188	1285581	40.00 ug/ml	0.12
81) Chrysene-d12	8.94	240	1743763	40.00 ug/ml	0.16
91) Perylene-d12	11.38	264	1796700	40.00 ug/ml	0.11

System Monitoring Compounds					
5) 2-Fluorophenol	2.60	112	128482	22.23 ug/ml	-0.01
Spiked Amount 50.000	Range 7 - 75		Recovery = 44.46%		
7) Phenol-d6	3.06	99	97783	11.37 ug/ml	0.00
Spiked Amount 50.000	Range 3 - 67		Recovery = 22.74%		
25) Nitrobenzene-d5	3.58	82	282104	31.88 ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 63.76%		
48) 2-Fluorobiphenyl	4.71	172	711645	37.00 ug/ml	0.02
Spiked Amount 50.000	Range 20 - 122		Recovery = 74.00%		
72) 2,4,6-Tribromophenol	5.77	330	126513	32.61 ug/ml	0.08
Spiked Amount 50.000	Range 24 - 162		Recovery = 65.22%		
85) 4-Terphenyl-d14	7.68	244	1335343	39.52 ug/ml	0.19
Spiked Amount 50.000	Range 22 - 172		Recovery = 79.04%		

Target Compounds					Qvalue
2) 1,4-Dioxane	0.00	88	0	N.D. d	
3) Pyridine	0.00	79	0	N.D.	
4) N-Nitrosodimethylamine	1.99	42	205	Below Cal #	1
6) Benzaldehyde	0.00	77	0	N.D.	
8) Phenol	0.00	94	0	N.D.	
9) Aniline	0.00	93	0	N.D.	
10) Bis(2-chloroethyl)ether	0.00	93	0	N.D.	
11) 2-Chlorophenol	0.00	128	0	N.D.	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl alcohol	0.00	108	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) 2-Methylphenol	0.00	107	0	N.D.	
17) 2,2'-Oxybis(1-chloropropan	0.00	45	0	N.D.	
18) 3-Methylphenol	0.00	107	0	N.D.	
19) 4-Methylphenol	0.00	107	0	N.D.	
20) 3&4-Methylphenol	0.00	107	0	N.D.	
21) Acetophenone	3.49	105	599	Below Cal #	77
22) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
23) Hexachloroethane	0.00	117	0	N.D.	
26) Nitrobenzene	0.00	123	0	N.D.	
27) Isophorone	0.00	82	0	N.D.	
28) 2-Nitrophenol	0.00	139	0	N.D.	
29) 2,4-Dimethylphenol	0.00	107	0	N.D.	
30) Bis(2-chloroethoxy)methane	0.00	93	0	N.D.	
31) Benzoic acid	0.00	122	0	N.D.	
32) 2,4-Dichlorophenol	0.00	162	0	N.D.	
33) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
34) Naphthalene	0.00	128	0	N.D.	
35) 4-Chloroaniline	0.00	127	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211604.D Vial: 4
Acq On : 21 Sep 2016 10:15 am Operator: JF
Sample : SBLKW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:05:37 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	2,6-Dichlorophenol	0.00	162	0	N.D.		
37)	Hexachlorobutadiene	0.00	225	0	N.D.		
38)	Caprolactam	0.00	55	0	N.D.		
39)	4-Chloro-3-methylphenol	0.00	107	0	N.D.		
40)	2-Methylnaphthalene	0.00	142	0	N.D.		
41)	1-Methylnaphthalene	0.00	142	0	N.D.		
42)	1,1`-Biphenyl	4.78	154	636	Below Cal	#	71
44)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
45)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
46)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
47)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
49)	1,3-Dinitrobenzene	0.00	168	0	N.D.		
50)	2-Chloronaphthalene	0.00	162	0	N.D.		
51)	2-Nitroaniline	0.00	65	0	N.D.		
52)	Dimethylphthalate	0.00	163	0	N.D.		
53)	2,3,5,6-Tetrachlorophenol	0.00	232	0	N.D.		
54)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.		
55)	Acenaphthylene	0.00	152	0	N.D.		
56)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
57)	3-Nitroaniline	0.00	138	0	N.D.		
58)	Acenaphthene	0.00	154	0	N.D.	d	
59)	2,4-Dinitrophenol	0.00	184	0	N.D.		
60)	Dibenzofuran	0.00	168	0	N.D.		
61)	4-Nitrophenol	0.00	65	0	N.D.	d	
62)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
63)	Diethylphthalate	0.00	149	0	N.D.	d	
64)	Fluorene	0.00	166	0	N.D.		
65)	4-Chlorophenyl phenyl ethe	0.00	204	0	N.D.		
66)	4-Nitroaniline	0.00	138	0	N.D.		
67)	Atrazine	0.00	200	0	N.D.		
69)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
70)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	d	
71)	1,2-Diphenylhydrazine	0.00	77	0	N.D.	d	
73)	4-Bromophenyl phenyl ether	0.00	248	0	N.D.		
74)	Hexachlorobenzene	0.00	284	0	N.D.		
75)	Pentachlorophenol	0.00	266	0	N.D.		
76)	Phenanthrene	0.00	178	0	N.D.		
77)	Anthracene	0.00	178	0	N.D.		
78)	Carbazole	0.00	167	0	N.D.		
79)	Di-n-butylphthalate	0.00	149	0	N.D.	d	
80)	Fluoranthene	0.00	202	0	N.D.	d	
82)	3,3-Dimethylbenzidine	0.00	212	0	N.D.		
83)	Benzidine	0.00	184	0	N.D.		
84)	Pyrene	0.00	202	0	N.D.	d	
86)	Butylbenzylphthalate	0.00	149	0	N.D.		
87)	Benzo[a]anthracene	0.00	228	0	N.D.	d	
88)	3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
89)	Chrysene	0.00	228	0	N.D.	d	
90)	Bis(2-ethylhexyl)phthalate	0.00	149	0	N.D.		
92)	Di-n-octylphthalate	0.00	149	0	N.D.		
93)	Benzo(b)fluoranthene	0.00	252	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211604.D Vial: 4
Acq On : 21 Sep 2016 10:15 am Operator: JF
Sample : SBLKW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:05:37 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

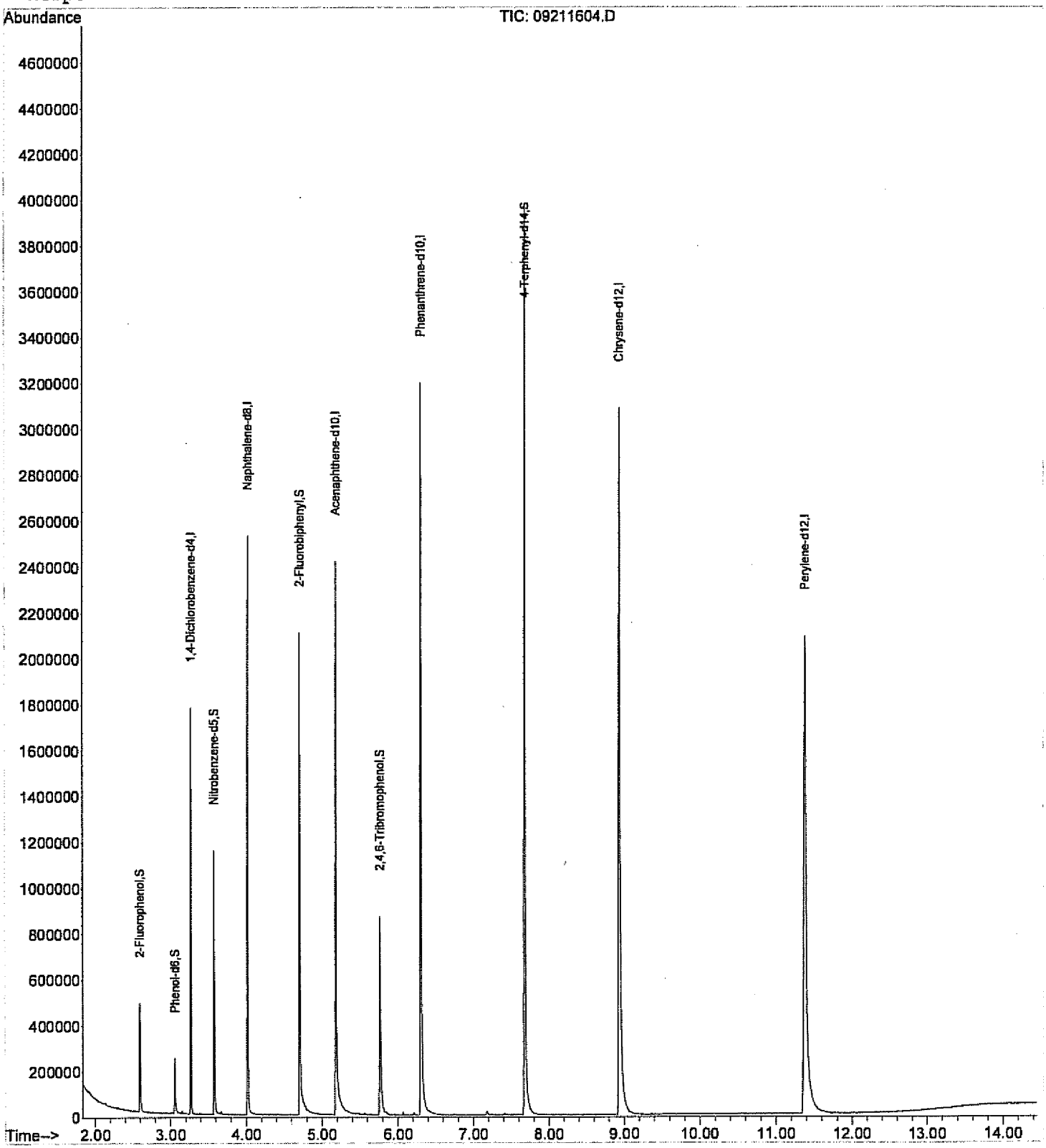
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
95)	Benzo(a)pyrene	0.00	252	0	N.D. d	
96)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
97)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
98)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211604.D Vial: 4
Acq On : 21 Sep 2016 10:15 am Operator: JF
Sample : SBLKW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:28 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211605.D Vial: 5
Acq On : 21 Sep 2016 10:38 am Operator: JF
Sample : SLCSW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:05:38 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	376891	40.00	ug/ml	0.00
24) Naphthalene-d8	4.01	136	1052680	40.00	ug/ml	0.00
43) Acenaphthene-d10	5.15	164	734218	40.00	ug/ml	0.00
68) Phenanthrene-d10	6.22	188	1498325	40.00	ug/ml	0.03
81) Chrysene-d12	8.82	240	1978210	40.00	ug/ml	0.05
91) Perylene-d12	11.29	264	2002707	40.00	ug/ml	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.60	112	138470	21.09	ug/ml	-0.01
Spiked Amount 50.000	Range 7 - 75		Recovery = 42.18%			
7) Phenol-d6	3.06	99	124824	12.81	ug/ml	-0.01
Spiked Amount 50.000	Range 3 - 67		Recovery = 25.62%			
25) Nitrobenzene-d5	3.58	82	325837	32.52	ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 65.04%			
48) 2-Fluorobiphenyl	4.68	172	822978	36.14	ug/ml	0.00
Spiked Amount 50.000	Range 20 - 122		Recovery = 72.28%			
72) 2,4,6-Tribromophenol	5.70	330	165782	36.61	ug/ml	0.02
Spiked Amount 50.000	Range 24 - 162		Recovery = 73.22%			
85) 4-Terphenyl-d14	7.55	244	1475264	38.49	ug/ml	0.06
Spiked Amount 50.000	Range 22 - 172		Recovery = 76.98%			

Target Compounds						Qvalue
2) 1,4-Dioxane	0.00	88	0	N.D.	d	
3) Pyridine	2.03	79	40058	5.07	ug/ml	97
4) N-Nitrosodimethylamine	2.00	42	26711	8.74	ug/ml	80
6) Benzaldehyde	3.03	77	90213	17.45	ug/ml	83
8) Phenol	3.06	94	74954	6.55	ug/ml#	33
9) Aniline	3.09	93	168148	14.99	ug/ml	93
10) Bis(2-chloroethyl)ether	3.10	93	115771	14.77	ug/ml	91
11) 2-Chlorophenol	3.16	128	114563	14.18	ug/ml	93
12) 1,3-Dichlorobenzene	3.23	146	120249	14.19	ug/ml	96
13) 1,4-Dichlorobenzene	3.27	146	128520	13.87	ug/ml	94
14) Benzyl alcohol	3.33	108	67419	11.61	ug/ml#	74
15) 1,2-Dichlorobenzene	3.36	146	126441	14.02	ug/ml	96
16) 2-Methylphenol	3.40	107	78499	11.93	ug/ml	87
17) 2,2'-Oxybis(1-chloropropan	3.40	45	143614	16.32	ug/ml	79
18) 3-Methylphenol	3.49	107	99902	11.60	ug/ml#	30
19) 4-Methylphenol	3.49	107	99902	11.58	ug/ml#	30
20) 3&4-Methylphenol	3.49	107	99902	11.56	ug/ml#	30
21) Acetophenone	3.49	105	179593	15.85	ug/ml	95
22) N-Nitrosodi-n-propylamine	3.48	70	93910	15.80	ug/ml	96
23) Hexachloroethane	3.56	117	45224	14.10	ug/ml	93
26) Nitrobenzene	3.59	123	69664	14.48	ug/ml#	77
27) Isophorone	3.73	82	267001	15.53	ug/ml	95
28) 2-Nitrophenol	3.78	139	71204	13.64	ug/ml	71
29) 2,4-Dimethylphenol	3.79	107	102521	11.62	ug/ml	91
30) Bis(2-chloroethoxy)methane	3.84	93	168538	15.50	ug/ml	99
31) Benzoic acid	0.00	122	0	N.D.	d	
32) 2,4-Dichlorophenol	3.93	162	107369	13.23	ug/ml	98
33) 1,2,4-Trichlorobenzene	3.97	180	122291	13.73	ug/ml	97
34) Naphthalene	4.03	128	395068	14.40	ug/ml	93
35) 4-Chloroaniline	4.06	127	179587	14.63	ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211605.D Vial: 5
Acq On : 21 Sep 2016 10:38 am Operator: JF
Sample : SLCSW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:05:38 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.93	162	107369	13.23 ug/ml	98
37) Hexachlorobutadiene	4.09	225	60913	13.31 ug/ml	98
38) Caprolactam	4.27	55	8194	2.31 ug/ml#	68
39) 4-Chloro-3-methylphenol	4.36	107	112944	13.17 ug/ml	91
40) 2-Methylnaphthalene	4.46	142	303749	14.75 ug/ml	93
41) 1-Methylnaphthalene	4.52	142	298743	15.48 ug/ml	89
42) 1,1`-Biphenyl	4.76	154	371656	14.68 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	31072	14.53 ug/ml	99
45) 1,2,4,5-Tetrachlorobenzene	4.56	216	134642	13.58 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	87981	13.35 ug/ml	99
47) 2,4,5-Trichlorophenol	4.67	196	108474	14.99 ug/ml	98
49) 1,3-Dinitrobenzene	4.98	168	71998	16.19 ug/ml	96
50) 2-Chloronaphthalene	4.77	162	304916	15.33 ug/ml	95
51) 2-Nitroaniline	4.84	65	81264	14.48 ug/ml#	76
52) Dimethylphthalate	4.95	163	399552	16.70 ug/ml	99
53) 2,3,5,6-Tetrachlorophenol	5.34	232	87378	13.71 ug/ml	97
54) 2,3,4,6-Tetrachlorophenol	5.37	232	111005	16.66 ug/ml	98
55) Acenaphthylene	5.05	152	511884	17.30 ug/ml	99
56) 2,6-Dinitrotoluene	5.00	165	94137	15.92 ug/ml	74
57) 3-Nitroaniline	5.12	138	104699	15.35 ug/ml#	79
58) Acenaphthene	5.17	154	339285	15.66 ug/ml	96
59) 2,4-Dinitrophenol	5.19	184	33985	14.04 ug/ml	91
60) Dibenzofuran	5.29	168	464248	15.30 ug/ml	98
61) 4-Nitrophenol	5.27	65	22497	5.82 ug/ml#	34
62) 2,4-Dinitrotoluene	5.00	165	94137	15.92 ug/ml	74
63) Diethylphthalate	5.43	149	419282	17.55 ug/ml	100
64) Fluorene	5.53	166	408270	15.91 ug/ml	98
65) 4-Chlorophenyl phenyl ethe	5.52	204	189031	15.61 ug/ml	93
66) 4-Nitroaniline	5.55	138	125285	16.88 ug/ml#	25
67) Atrazine	5.99	200	124559	20.57 ug/ml	96
69) 4,6-Dinitro-2-methylphenol	5.56	198	84137	15.35 ug/ml	93
70) N-Nitrosodiphenylamine	5.60	169	353353	14.98 ug/ml	99
71) 1,2-Diphenylhydrazine	5.63	77	407969	16.58 ug/ml	96
73) 4-Bromophenyl phenyl ether	5.88	248	118322	14.37 ug/ml	95
74) Hexachlorobenzene	5.93	284	143946	15.08 ug/ml	92
75) Pentachlorophenol	6.08	266	68079	13.73 ug/ml	96
76) Phenanthrene	6.24	178	682796	15.84 ug/ml	99
77) Anthracene	6.28	178	729051	16.93 ug/ml	98
78) Carbazole	6.40	167	701639	16.44 ug/ml	95
79) Di-n-butylphthalate	6.65	149	835391	17.56 ug/ml	98
80) Fluoranthene	7.41	202	913688	16.50 ug/ml	92
82) 3,3-Dimethylbenzidine	0.00	212	0	N.D. d	
83) Benzidine	0.00	184	0	N.D.	
84) Pyrene	7.41	202	913688	16.73 ug/ml	94
86) Butylbenzylphthalate	8.08	149	387230	15.45 ug/ml	92
87) Benzo[a]anthracene	8.80	228	968077	16.18 ug/ml	97
88) 3,3'-Dichlorobenzidine	8.78	252	223709	15.00 ug/ml	97
89) Chrysene	8.86	228	955063	17.67 ug/ml	96
90) Bis(2-ethylhexyl)phthalate	8.86	149	561763	16.93 ug/ml	83
92) Di-n-octylphthalate	9.96	149	842012	14.93 ug/ml	99
93) Benzo(b)fluoranthene	10.57	252	863612	14.28 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211605.D Vial: 5
Acq On : 21 Sep 2016 10:38 am Operator: JF
Sample : SLCSW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:05:38 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

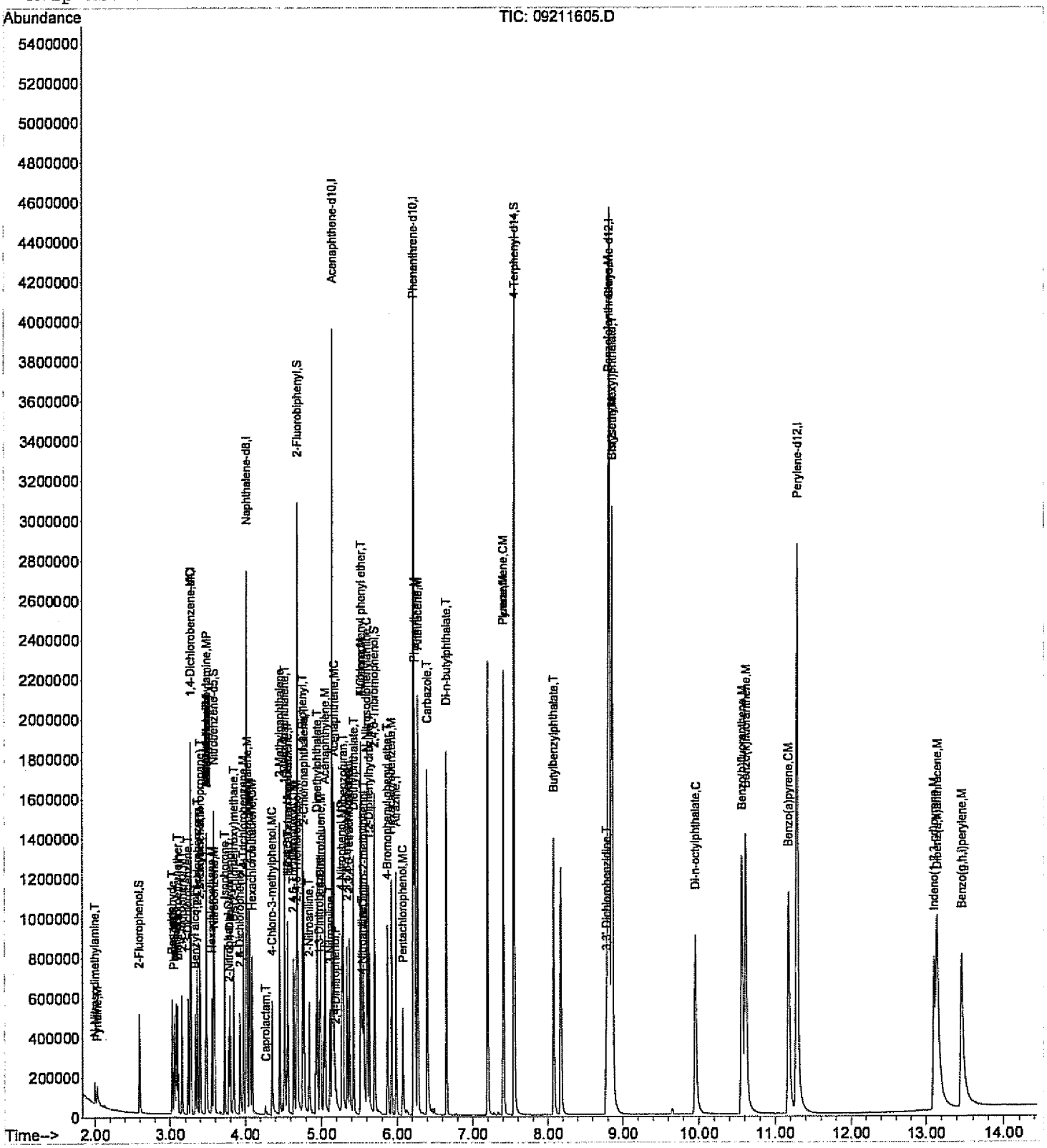
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Benzo(k)fluoranthene	10.62	252	1112064	18.36	ug/ml	96
95)	Benzo(a)pyrene	11.18	252	953568	16.19	ug/ml	96
96)	Indeno(1,2,3-cd)pyrene	13.10	276	980126	19.08	ug/ml	81
97)	Dibenz(a,h)anthracene	13.15	278	796773	17.01	ug/ml	93
98)	Benzo(g,h,i)perylene	13.46	276	799975	16.61	ug/ml	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211605.D Vial: 5
Acq On : 21 Sep 2016 10:38 am Operator: JF
Sample : SLCSW1-91630 Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 13:30 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211613.D Vial: 10
Acq On : 21 Sep 2016 1:33 pm Operator: JF
Sample : 1609912-01B MS Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:01:57 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	416952	40.00	ug/ml	0.00
24) Naphthalene-d8	4.02	136	1131670	40.00	ug/ml	0.00
43) Acenaphthene-d10	5.15	164	773380	40.00	ug/ml	0.00
68) Phenanthrene-d10	6.22	188	1567834	40.00	ug/ml	0.03
81) Chrysene-d12	8.82	240	2202795	40.00	ug/ml	0.04
91) Perylene-d12	11.28	264	1934076	40.00	ug/ml	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.60	112	154615	21.29	ug/ml	-0.01
Spiked Amount 50.000	Range 7 - 75		Recovery = 42.58%			
7) Phenol-d6	3.06	99	142329	13.21	ug/ml	-0.01
Spiked Amount 50.000	Range 3 - 67		Recovery = 26.42%			
25) Nitrobenzene-d5	3.58	82	361913	33.59	ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 67.18%			
48) 2-Fluorobiphenyl	4.68	172	878667	36.63	ug/ml	0.00
Spiked Amount 50.000	Range 20 - 122		Recovery = 73.26%			
72) 2,4,6-Tribromophenol	5.70	330	210141	44.24	ug/ml	0.02
Spiked Amount 50.000	Range 24 - 162		Recovery = 88.48%			
85) 4-Terphenyl-d14	7.54	244	1537649	36.05	ug/ml	0.05
Spiked Amount 50.000	Range 22 - 172		Recovery = 72.10%			

Target Compounds						Qvalue
2) 1,4-Dioxane	0.00	88	0	N.D.	d	
3) Pyridine	2.03	79	20957	2.27	ug/ml	87
4) N-Nitrosodimethylamine	2.00	42	29971	8.88	ug/ml#	67
6) Benzaldehyde	3.03	77	105714	18.49	ug/ml	83
8) Phenol	3.06	94	73413	5.76	ug/ml	80
9) Aniline	3.09	93	81379m	6.23	ug/ml	
10) Bis(2-chloroethyl)ether	3.10	93	126508m	14.58	ug/ml	
11) 2-Chlorophenol	3.16	128	130755	14.64	ug/ml	94
12) 1,3-Dichlorobenzene	3.24	146	137470	14.68	ug/ml	96
13) 1,4-Dichlorobenzene	3.27	146	142963	13.94	ug/ml	96
14) Benzyl alcohol	3.33	108	74934	11.67	ug/ml#	76
15) 1,2-Dichlorobenzene	3.36	146	140023	14.03	ug/ml	96
16) 2-Methylphenol	3.40	107	93625	12.86	ug/ml	89
17) 2,2'-Oxybis(1-chloropropan	3.40	45	154949	15.89	ug/ml	78
18) 3-Methylphenol	3.49	107	127158m	13.35	ug/ml	
19) 4-Methylphenol	3.49	107	127652m	13.38	ug/ml	
20) 3&4-Methylphenol	3.49	107	127012	13.29	ug/ml#	44
21) Acetophenone	3.49	105	202833	16.20	ug/ml	93
22) N-Nitrosodi-n-propylamine	3.48	70	104329	15.87	ug/ml	95
23) Hexachloroethane	3.56	117	52345	14.78	ug/ml	94
26) Nitrobenzene	3.59	123	89434	17.20	ug/ml#	74
27) Isophorone	3.73	82	291450	15.76	ug/ml	95
28) 2-Nitrophenol	3.78	139	85931	15.19	ug/ml	73
29) 2,4-Dimethylphenol	3.80	107	124421	13.05	ug/ml	90
30) Bis(2-chloroethoxy)methane	3.84	93	185948	15.90	ug/ml	99
31) Benzoic acid	0.00	122	0	N.D.	d	
32) 2,4-Dichlorophenol	3.93	162	143875	16.29	ug/ml	99
33) 1,2,4-Trichlorobenzene	3.97	180	137921	14.40	ug/ml	98
34) Naphthalene	4.03	128	447636	15.18	ug/ml	94
35) 4-Chloroaniline	4.06	127	115924	8.85	ug/ml	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211613.D Vial: 10
Acq On : 21 Sep 2016 1:33 pm Operator: JF
Sample : 1609912-01B MS Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:01:57 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 2,6-Dichlorophenol	3.93	162	143875	16.29 ug/ml	99
37) Hexachlorobutadiene	4.09	225	69134	14.04 ug/ml	99
38) Caprolactam	4.27	55	22813	4.92 ug/ml	87
39) 4-Chloro-3-methylphenol	4.36	107	169741	18.19 ug/ml	91
40) 2-Methylnaphthalene	4.46	142	338779	15.30 ug/ml	93
41) 1-Methylnaphthalene	4.52	142	321079	15.47 ug/ml	94
42) 1,1`-Biphenyl	4.76	154	423599	15.58 ug/ml	99
44) Hexachlorocyclopentadiene	4.56	237	23859	11.35 ug/ml	99
45) 1,2,4,5-Tetrachlorobenzene	4.56	216	150231	14.36 ug/ml	99
46) 2,4,6-Trichlorophenol	4.64	196	125159	17.76 ug/ml	98
47) 2,4,5-Trichlorophenol	4.67	196	162903	21.03 ug/ml	99
49) 1,3-Dinitrobenzene	4.98	168	89705	18.98 ug/ml	94
50) 2-Chloronaphthalene	4.77	162	344011	16.43 ug/ml	96
51) 2-Nitroaniline	4.84	65	80180	13.61 ug/ml#	71
52) Dimethylphthalate	4.95	163	473822	18.79 ug/ml	98
53) 2,3,5,6-Tetrachlorophenol	5.34	232	127816	18.82 ug/ml	98
54) 2,3,4,6-Tetrachlorophenol	5.37	232	151104	21.41 ug/ml	98
55) Acenaphthylene	5.05	152	754661	24.16 ug/ml	99
56) 2,6-Dinitrotoluene	5.00	165	120556	19.24 ug/ml#	73
57) 3-Nitroaniline	5.12	138	29780	4.64 ug/ml#	78
58) Acenaphthene	5.17	154	395705	17.31 ug/ml	99
59) 2,4-Dinitrophenol	5.19	184	80217	25.66 ug/ml	84
60) Dibenzofuran	5.28	168	549823	17.20 ug/ml	91
61) 4-Nitrophenol	5.27	65	42128	9.09 ug/ml#	1
62) 2,4-Dinitrotoluene	5.00	165	120556	19.24 ug/ml#	73
63) Diethylphthalate	5.43	149	505457	20.09 ug/ml	99
64) Fluorene	5.53	166	496768	18.36 ug/ml	97
65) 4-Chlorophenyl phenyl ethe	5.52	204	224024	17.53 ug/ml	96
66) 4-Nitroaniline	5.55	138	24917	3.57 ug/ml#	36
67) Atrazine	5.98	200	144026	23.01 ug/ml	97
69) 4,6-Dinitro-2-methylphenol	5.56	198	109643	18.72 ug/ml	98
70) N-Nitrosodiphenylamine	5.60	169	458694	18.52 ug/ml	89
71) 1,2-Diphenylhydrazine	5.63	77	472631	18.35 ug/ml	94
73) 4-Bromophenyl phenyl ether	5.87	248	140867	16.28 ug/ml	94
74) Hexachlorobenzene	5.92	284	164077	16.41 ug/ml	96
75) Pentachlorophenol	6.08	266	113275	20.68 ug/ml	98
76) Phenanthrene	6.24	178	819361	18.15 ug/ml	100
77) Anthracene	6.27	178	977261	21.64 ug/ml	95
78) Carbazole	6.40	167	920924	20.56 ug/ml	94
79) Di-n-butylphthalate	6.65	149	1017889	20.42 ug/ml	95
80) Fluoranthene	7.40	202	1269637	21.80 ug/ml	90
82) 3,3-Dimethylbenzidine	0.00	212	0	N.D. d	
83) Benzidine	0.00	184	0	N.D. d	
84) Pyrene	7.40	202	1269637	20.85 ug/ml	93
86) Butylbenzylphthalate	8.08	149	542655	19.27 ug/ml	93
87) Benzo[a]anthracene	8.80	228	1500283	22.37 ug/ml	94
88) 3,3'-Dichlorobenzidine	8.77	252	21431m	1.98 ug/ml	
89) Chrysene	8.85	228	1340687	22.24 ug/ml	95
90) Bis(2-ethylhexyl)phthalate	8.86	149	775923	20.82 ug/ml	83
92) Di-n-octylphthalate	9.95	149	1314159	22.88 ug/ml	99
93) Benzo(b)fluoranthene	10.57	252	1531652	25.37 ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211613.D Vial: 10
Acq On : 21 Sep 2016 1:33 pm Operator: JF
Sample : 1609912-01B MS Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:01:57 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

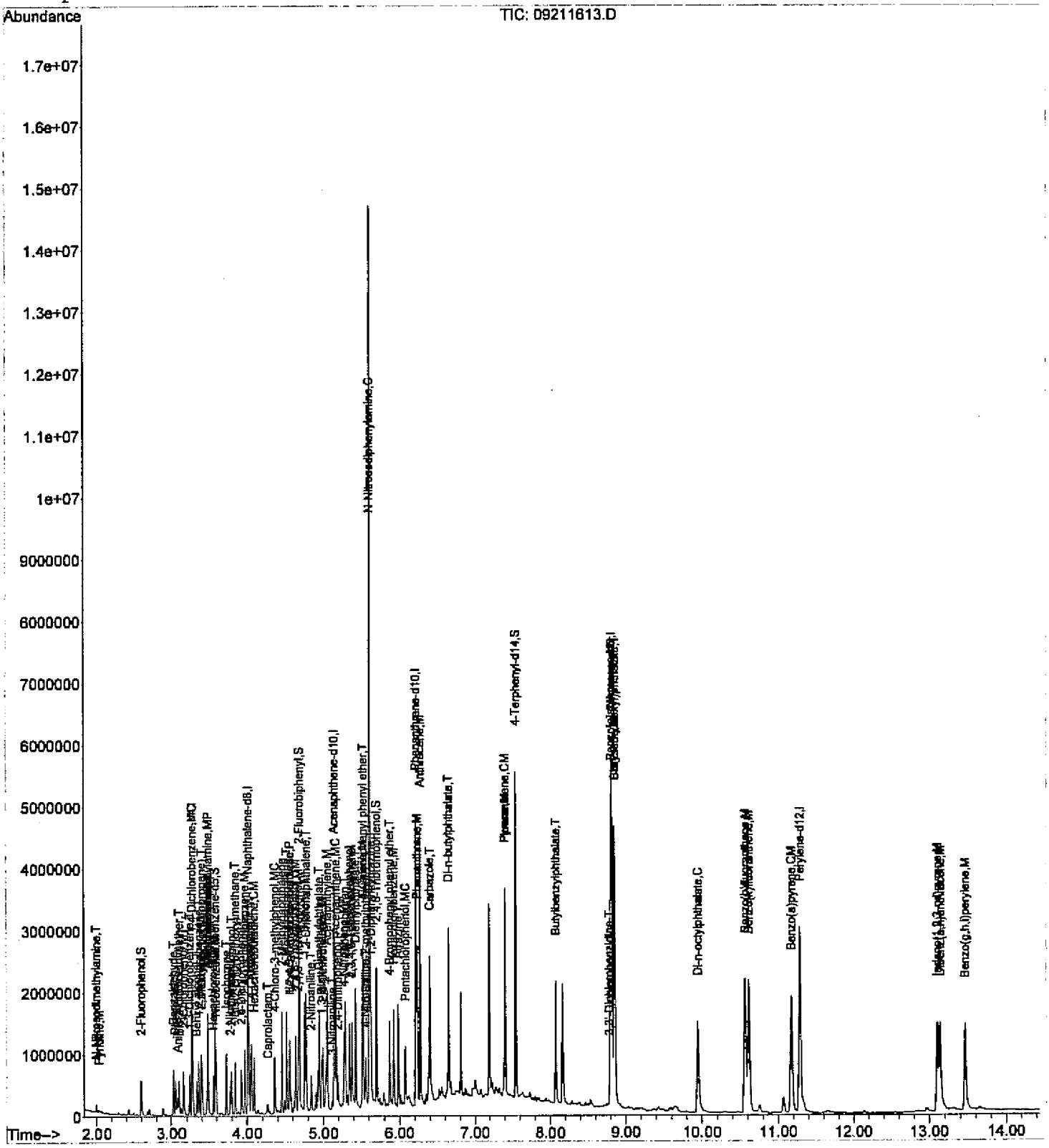
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Benzo(k)fluoranthene	10.61	252	1368536	23.28	ug/ml	95
95)	Benzo(a)pyrene	11.17	252	1384264	23.77	ug/ml	94
96)	Indeno(1,2,3-cd)pyrene	13.10	276	896503m	18.13	ug/ml	
97)	Dibenz(a,h)anthracene	13.14	278	870383	19.07	ug/ml	91
98)	Benzo(g,h,i)perylene	13.46	276	954102	20.43	ug/ml	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211613.D Vial: 10
Acq On : 21 Sep 2016 1:33 pm Operator: JF
Sample : 1609912-01B MS Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 14:12 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211616.D Vial: 13
Acq On : 21 Sep 2016 2:43 pm Operator: JF
Sample : 16091057-01B DUP Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:36:35 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.27	150	529444	40.00 ug/ml	0.00
24) Naphthalene-d8	4.01	136	1418627	40.00 ug/ml	0.00
43) Acenaphthene-d10	5.14	164	967186	40.00 ug/ml	0.00
68) Phenanthrene-d10	6.22	188	1686532	40.00 ug/ml	0.03
81) Chrysene-d12	8.83	240	1345612	40.00 ug/ml	0.05
91) Perylene-d12	11.30	264	1296700	40.00 ug/ml	0.03
System Monitoring Compounds					
5) 2-Fluorophenol	2.60	112	147860	16.03 ug/ml	-0.01
Spiked Amount 50.000	Range 7 - 75		Recovery = 32.06%		
7) Phenol-d6	3.06	99	139110	10.12 ug/ml	0.00
Spiked Amount 50.000	Range 3 - 67		Recovery = 20.24%		
25) Nitrobenzene-d5	3.58	82	350035	26.01 ug/ml	0.00
Spiked Amount 50.000	Range 8 - 115		Recovery = 52.02%		
48) 2-Fluorobiphenyl	4.68	172	936664	31.23 ug/ml	0.00
Spiked Amount 50.000	Range 20 - 122		Recovery = 62.46%		
72) 2,4,6-Tribromophenol	5.70	330	165756	32.57 ug/ml	0.02
Spiked Amount 50.000	Range 24 - 162		Recovery = 65.14%		
85) 4-Terphenyl-d14	7.55	244	910440	34.96 ug/ml	0.06
Spiked Amount 50.000	Range 22 - 172		Recovery = 69.92%		

Target Compounds					Qvalue
2) 1,4-Dioxane	0.00	88	0	N.D. d	
3) Pyridine	2.04	79	1127	Below Cal #	32
4) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
6) Benzaldehyde	3.03	77	10688	2.25 ug/ml#	58
8) Phenol	3.07	94	18625	0.85 ug/ml	76
9) Aniline	3.09	93	1762	Below Cal #	41
10) Bis(2-chloroethyl)ether	3.12	93	1064	Below Cal #	14
11) 2-Chlorophenol	0.00	128	0	N.D.	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl alcohol	3.34	108	18504	2.22 ug/ml	81
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) 2-Methylphenol	3.40	107	37714	4.08 ug/ml	92
17) 2,2'-Oxybis(1-chloropropan	3.40	45	98	Below Cal #	1
18) 3-Methylphenol	3.49	107	67364m	5.57 ug/ml	
19) 4-Methylphenol	3.49	107	66840m	5.52 ug/ml	
20) 3&4-Methylphenol	3.49	107	67019m	5.52 ug/ml	
21) Acetophenone	3.49	105	163274	9.94 ug/ml	97
22) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
23) Hexachloroethane	0.00	117	0	N.D. d	
26) Nitrobenzene	0.00	123	0	N.D. d	
27) Isophorone	3.73	82	2948260	125.31 ug/ml	92
28) 2-Nitrophenol	0.00	139	0	N.D. d	
29) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
30) Bis(2-chloroethoxy)methane	0.00	93	0	N.D. d	
31) Benzoic acid	3.86	122	152590	19.11 ug/ml	81
32) 2,4-Dichlorophenol	0.00	162	0	N.D. d	
33) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
34) Naphthalene	4.03	128	96809	2.50 ug/ml	96
35) 4-Chloroaniline	0.00	127	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211616.D Vial: 13
Acq On : 21 Sep 2016 2:43 pm Operator: JF
Sample : 16091057-01B DUP Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:36:35 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	2,6-Dichlorophenol	0.00	162	0	N.D. d	
37)	Hexachlorobutadiene	0.00	225	0	N.D.	
38)	Caprolactam	0.00	55	0	N.D. d	
39)	4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
40)	2-Methylnaphthalene	4.46	142	13140	0.54 ug/ml	86
41)	1-Methylnaphthalene	4.52	142	10110	0.41 ug/ml	85
42)	1,1`-Biphenyl	4.76	154	6141	Below Cal #	1
44)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
45)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
46)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
47)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
49)	1,3-Dinitrobenzene	0.00	168	0	N.D. d	
50)	2-Chloronaphthalene	0.00	162	0	N.D. d	
51)	2-Nitroaniline	0.00	65	0	N.D. d	
52)	Dimethylphthalate	0.00	163	0	N.D. d	
53)	2,3,5,6-Tetrachlorophenol	0.00	232	0	N.D. d	
54)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d	
55)	Acenaphthylene	0.00	152	0	N.D. d	
56)	2,6-Dinitrotoluene	0.00	165	0	N.D. d	
57)	3-Nitroaniline	0.00	138	0	N.D. d	
58)	Acenaphthene	5.17	154	16544	0.86 ug/ml	83
59)	2,4-Dinitrophenol	0.00	184	0	N.D.	
60)	Dibenzofuran	5.28	168	26762	0.67 ug/ml	80
61)	4-Nitrophenol	0.00	65	0	N.D. d	
62)	2,4-Dinitrotoluene	0.00	165	0	N.D. d	
63)	Diethylphthalate	5.42	149	4724	0.17 ug/ml#	89
64)	Fluorene	5.52	166	50520	1.58 ug/ml	89
65)	4-Chlorophenyl phenyl ethe	0.00	204	0	N.D. d	
66)	4-Nitroaniline	0.00	138	0	N.D. d	
67)	Atrazine	0.00	200	0	N.D. d	
69)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
70)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d	
71)	1,2-Diphenylhydrazine	0.00	77	0	N.D. d	
73)	4-Bromophenyl phenyl ether	0.00	248	0	N.D. d	
74)	Hexachlorobenzene	0.00	284	0	N.D.	
75)	Pentachlorophenol	0.00	266	0	N.D. d	
76)	Phenanthrene	6.24	178	148851	3.15 ug/ml	97
77)	Anthracene	6.27	178	51355	1.22 ug/ml	80
78)	Carbazole	6.40	167	57253	1.42 ug/ml#	88
79)	Di-n-butylphthalate	6.65	149	32142	0.80 ug/ml	59
80)	Fluoranthene	7.41	202	127329	2.32 ug/ml	82
82)	3,3-Dimethylbenzidine	0.00	212	0	N.D. d	
83)	Benzidine	0.00	184	0	N.D. d	
84)	Pyrene	7.41	202	127133	3.50 ug/ml	85
86)	Butylbenzylphthalate	0.00	149	0	N.D. d	
87)	Benzo[a]anthracene	8.81	228	58291	1.77 ug/ml	79
88)	3,3'-Dichlorobenzidine	0.00	252	0	N.D. d	
89)	Chrysene	8.86	228	61165	1.79 ug/ml	91
90)	Bis(2-ethylhexyl)phthalate	8.88	149	908985	39.24 ug/ml	87
92)	Di-n-octylphthalate	9.98	149	1175258	29.84 ug/ml	94
93)	Benzo(b)fluoranthene	10.58	252	78130m	2.88 ug/ml	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211616.D Vial: 13
Acq On : 21 Sep 2016 2:43 pm Operator: JF
Sample : 16091057-01B DUP Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:36:35 2016 Quant Results File: 5S091816.RES

Quant Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration
DataAcq Meth : 8270PH

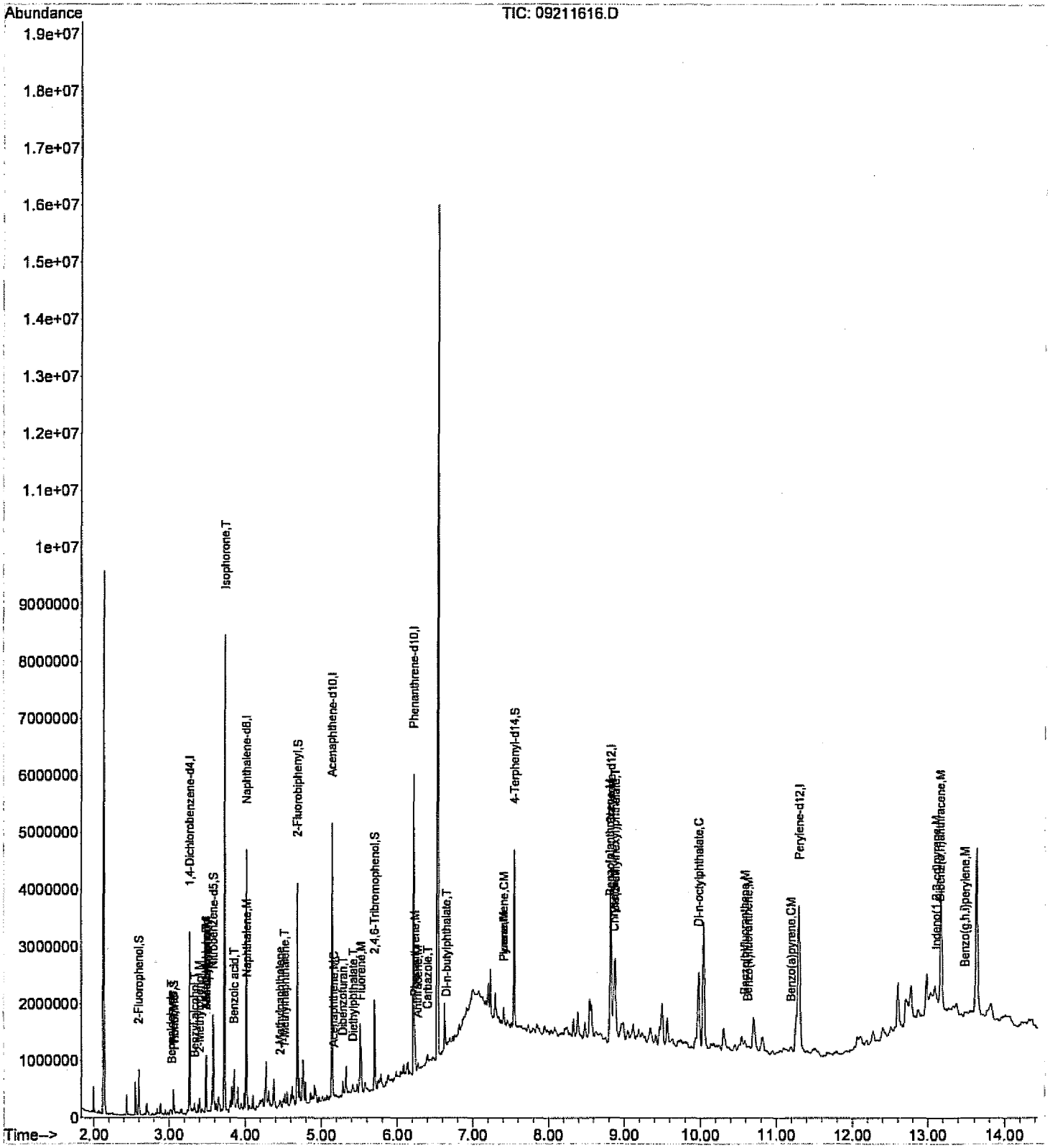
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Benzo(k)fluoranthene	10.63	252	34528m	1.29	ug/ml	
95)	Benzo(a)pyrene	11.19	252	48520	2.30	ug/ml	85
96)	Indeno(1,2,3-cd)pyrene	13.12	276	49770	2.47	ug/ml#	48
97)	Dibenz(a,h)anthracene	13.16	278	15127	0.61	ug/ml#	3
98)	Benzo(g,h,i)perylene	13.48	276	40610	1.35	ug/ml	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\5S092116\09211616.D Vial: 13
Acq On : 21 Sep 2016 2:43 pm Operator: JF
Sample : 16091057-01B DUP Inst : SVMS5
Misc : 1XBAW16-91630/31 Multiplr: 1.00
MS Integration Params: 8270.P
Quant Time: Sep 21 15:49 2016 Quant Results File: 5S091816.RES

Method : C:\MSDCHEM\1\METHODS\5S091816.M (RTE Integrator)
Title : 8270c/625/1311 Calibration
Last Update : Mon Sep 19 09:46:08 2016
Response via : Initial Calibration



Sequence Name: C:\MSDCHEM\1\SEQUENCE\5S092116.S
Comment:
Operator: JF
Data Path: C:\MSDCHEM\1\data\5S092116\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	09211601	8270PH	RINSE
2	Sample	2	09211602	DFTPP	50ug/ml DFTPP
3	Sample	3	09211603	8270PH	20 ug/ml BNA
4	Sample	4	09211604	8270PH	SBLKW1-91630
5	Sample	5	09211605	8270PH	SLCSW1-91630
6	Sample	6	09211606	8270PH	SBLKS1-91628
7	Sample	7	09211607	8270PH	SLCSS1-91628
8	Sample	8	09211608	8270PH	SBLKS1-91643
9	Sample	9	09211609	8270PH	SLCSS1-91643
10	Sample	19	09211610	8270PH	SLCSS1-91559
11	Sample	2	09211611	DFTPP	50ug/ml DFTPP
12	Sample	3	09211612	8270PH	20 ug/ml BNA
13	Sample	10	09211613	8270PH	1609912-01B MS
14	Sample	11	09211614	8270PH	1609912-01A
15	Sample	12	09211615	8270PH	16091057-01B
16	Sample	13	09211616	8270PH	16091057-01B DUP
17	Sample	14	09211617	8270PH	1609950-05B MS
18	Sample	15	09211618	8270PH	1609950-05B MSD
19	Sample	16	09211619	8270PH	1609950-05B
20	Sample	17	09211620	8270PH	1609892-01B MS
21	Sample	18	09211621	8270PH	1609892-01B MSD
22	Sample	20	09211622	8270PH	1609834-02B
23	Sample	21	09211623	8270PH	1609834-03B
24	Sample	22	09211624	8270PH	1609844-01B
25	Sample	23	09211625	8270PH	1609844-04B
26	Sample	24	09211626	8270PH	1609845-02A
27	Sample	25	09211627	8270PH	1609862-01C
28	Sample	26	09211628	8270PH	1609969-01A
29	Sample	27	09211629	8270PH	1609791-16A
30	Sample	28	09211630	8270PH	1609791-17A
31	Sample	29	09211631	8270PH	1609881-01B
32	Sample	30	09211632	8270PH	1609828-04A
33	Sample	31	09211633	8270PH	1609886-15A
34	Sample	32	09211634	8270PH	1609886-16A
35	Sample	33	09211635	8270PH	1609886-32A
36	Sample	34	09211636	8270PH	1609886-33A
37	Sample	35	09211637	8270PH	1609886-50A
38	Sample	36	09211638	8270PH	1609886-51A
39	Sample	37	09211639	8270PH	1609791-07A DF5
40	Sample	38	09211640	8270PH	16091057-01B DF5
41	Sample	39	09211641	8270PH	1609827-03B
42	Sample	1	09211642	8270PH	RINSE
43	Sample	1	09211643	8270PH	RINSE

ALS Group USA, Corp

PREP BATCH REPORT

Batch ID: **91630** Prep Code: **BA 3510 W**

Start Date: **9/20/2016 8:20:02 AM** End Date: **9/20/2016 3:36:14 PM**

Technician: **Erin Vegter**

InitSamp Wt/Vol: 1000 mL
FinSampVol: 1 mL
OriginalFac: 0.001
PrepUnitFac:

Sample ID	Matrix	pH	Init wt	Init vol	PMoisture	Fin Vol (mL)	Factor
16091057-01B B2	Surface Water			940	0	1	0.00106383
16091057-01B Dup B3	Surface Water			895	0	1	0.00111732
1609834-01B B4	Water			1000	0	1	0.001
1609834-02B	Water			1000	0	1	0.001
1609834-03B	Water			1000	0	1	0.001
1609844-01B	Water			1000	0	1	0.001
1609844-03B	Water			1000	0	1	0.001
1609844-04B B2	Water			1000	0	1	0.001
1609845-02A B2	Water			1000	0	1	0.001
1609845-04A	Water			1000	0	1	0.001
1609845-06A B2	Water			1000	0	1	0.001
1609912-01B	Water			1000	0	1	0.001
1609912-01B MS	Water			1000	0	1	0.001
SBLKW1-91630				1000	0	1	0.001
SLCSW1-91630				1000	0	1	0.001

Notes: *500uL Surrogate, line# 2049-14-6, added to all Samples. 500 uL MegaMix Spike, line# 300-0100 added to QC. All samples B1/E1 unless otherwise noted*

GC
Semi-Volatile Organics

ADDRESS 3352 128th Avenue, Holland Michigan 49424-9236 USA | PHONE +1 616 399 6070 | FAX +1 616 399 6185
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PCBs

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Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211607.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 4:51 pm
Operator : EBB
Sample : 16091057-01B
Misc : GC-14 91634 AQ
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 17:10:55 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

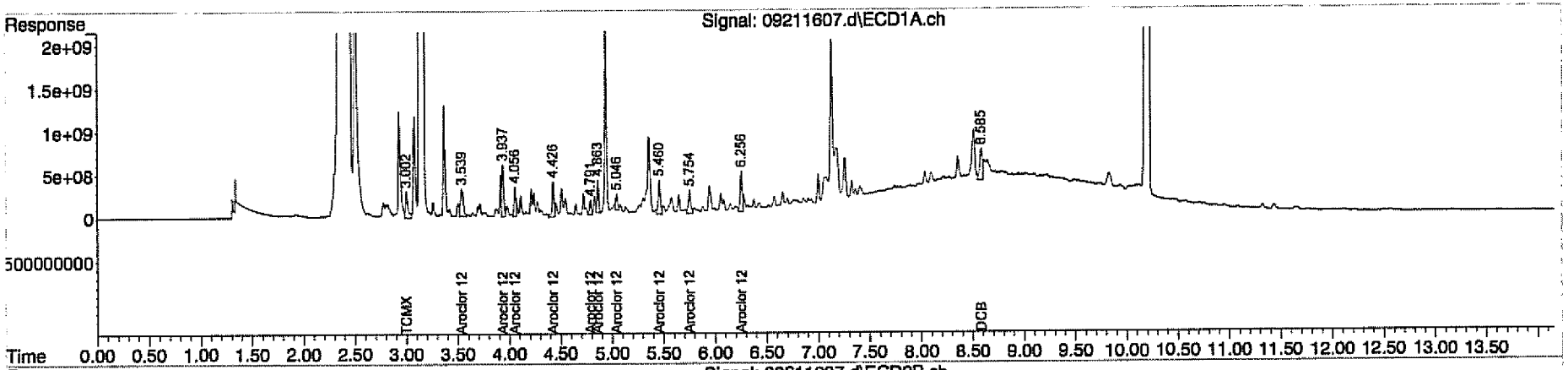
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.003	3.374	4976.1E6	3005.5E6	0.068	0.304m#
47) S	DCB	8.585	9.872	6706.1E6	1295.3E6	0.131m	0.182m#
	Target Compounds						
	Sum Aroclor 1016			0	0	N.D.	N.D.
	Average Aroclor 1016					0.000	0.000
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
17) L,M	Aroclor 1242	3.539	4.165	6162.1E6	668.4E6	3.874m	3.880m
18) L,M	Aroclor 1...	3.937	4.625	7403.6E6	1034.1E6	3.429m	3.247
19) L,M	Aroclor 1...	4.056	4.763	4189.6E6	975.2E6	3.447m	4.720m#
20) L,M	Aroclor 1...	4.427	5.251	5238.3E6	744.1E6	4.252	4.162
21) L,M	Aroclor 1...	4.863	0.000	4532.8E6	0	3.672m	N.D. d#
	Sum Aroclor 1242			27526.3E6	3421.7E6	18.675	16.008
	Average Aroclor 1242					3.735	4.002
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
27) L,M	Aroclor 1254	4.791	5.710	1930.7E6	414.6E6	1.003m	1.206m
28) L,M	Aroclor 1...	5.046	5.908	2296.4E6	411.1E6	0.684m	1.086m#
29) L,M	Aroclor 1...	5.460	6.438	5714.7E6	843.4E6	1.664m	1.810m
30) L,M	Aroclor 1...	5.754	6.693	3964.5E6	666.1E6	1.434m	1.689
31) L,M	Aroclor 1...	6.256	7.312	6313.5E6	677.8E6	1.500m	1.437m
	Sum Aroclor 1254			20219.8E6	3013.0E6	6.285	7.228
	Average Aroclor 1254					1.257	1.446
	Sum Aroclor 1260			0	0	N.D.	N.D.
	Average Aroclor 1260					0.000	0.000
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

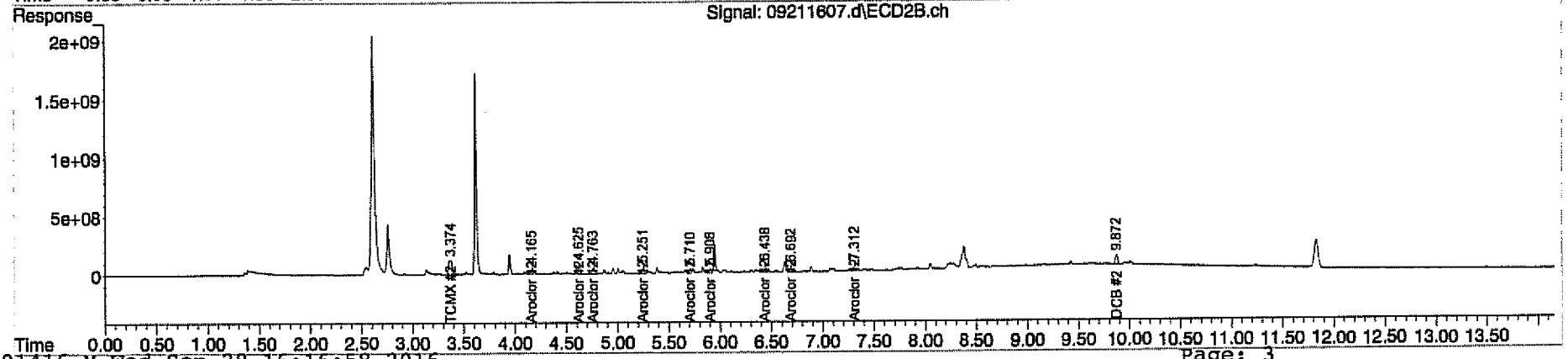
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211607.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 4:51 pm
Operator : EBB
Sample : 16091057-01B
Misc : GC-14 91634 AQ
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 17:10:55 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report GC14

Method Path : H:\GC14\
Method File : PC091416.M
Title :
Last Update : Mon Sep 19 17:13:00 2016
Response Via : Initial Calibration

Calibration Files
0.10 =09141607.d 0.20 =09141608.d 0.50 =09141610.d
1.0 =09141611.d 2.0 =09141612.d 3.0 =09141613.d

	Compound	0.10	0.20	0.50	1.0	2.0	3.0	Avg	%RSD
1) S	TCMX	63.845	62.649	65.072	70.981	73.758	75.153	69.268 E9	7.37
2) L	Aroclor 1016	0.980	0.982	0.978	1.008	0.978	0.957	0.960 E9	4.44
3) L	Aroclor 1016 {2}	2.242	2.224	2.242	2.289	2.191	2.118	2.159 E9	6.70
4) L	Aroclor 1016 {3}	2.681	2.758	2.884	3.022	2.983	2.882	2.828 E9	4.53
5) L	Aroclor 1016 {4}	1.452	1.486	1.522	1.654	1.611	1.569	1.524 E9	4.73
6) L	Aroclor 1016 {5}	1.346	1.370	1.480	1.600	1.579	1.558	1.473 E9	6.17
7) L,M	Aroclor 1221							3.831 E8	0.00
8) L,M	Aroclor 1221 {2}							6.357 E8	0.00
9) L,M	Aroclor 1221 {3}							3.114 E8	0.00
10) L,M	Aroclor 1221 {4}							1.354 E9	0.00
11) L,M	Aroclor 1221 {5}							1.842 E8	0.00
12) L	Aroclor 1232							1.150 E9	0.00
13) L	Aroclor 1232 {2}							8.817 E8	0.00
14) L	Aroclor 1232 {3}							1.161 E9	0.00
15) L	Aroclor 1232 {4}							6.478 E8	0.00
16) L	Aroclor 1232 {5}							6.174 E8	0.00
17) L,M	Aroclor 1242							1.591 E9	0.00
18) L,M	Aroclor 1242 {2}							2.159 E9	0.00
19) L,M	Aroclor 1242 {3}							1.215 E9	0.00
20) L,M	Aroclor 1242 {4}							1.232 E9	0.00
21) L,M	Aroclor 1242 {5}							1.234 E9	0.00
22) L	Aroclor 1248							1.302 E9	0.00
23) L	Aroclor 1248 {2}							1.859 E9	0.00
24) L	Aroclor 1248 {3}							1.294 E9	0.00
25) L	Aroclor 1248 {4}							1.967 E9	0.00
26) L	Aroclor 1248 {5}							1.243 E9	0.00
27) L,M	Aroclor 1254							1.925 E9	0.00
28) L,M	Aroclor 1254 {2}							3.356 E9	0.00
29) L,M	Aroclor 1254 {3}							3.434 E9	0.00
30) L,M	Aroclor 1254 {4}							2.765 E9	0.00
31) L,M	Aroclor 1254 {5}							4.209 E9	0.00
32) L	Aroclor 1260	3.790	4.053	4.459	4.873	4.801	4.731	4.401 E9	8.22
33) L	Aroclor 1260 {2}	2.726	2.940	3.517	3.992	4.102	4.170	3.592 E9	14.97
34) L	Aroclor 1260 {3}	2.091	2.024	2.263	2.535	2.608	2.510	2.327 E9	9.15
35) L	Aroclor 1260 {4}	3.850	4.181	4.602	5.032	5.235	5.316	4.706 E9	11.17
36) L	Aroclor 1260 {5}	0.851	0.848	0.908	1.035	1.076	1.109	1.000 E9	13.70
37) L,M	Aroclor 1262							2.988 E9	0.00
38) L,M	Aroclor 1262 {2}							3.861 E9	0.00
39) L,M	Aroclor 1262 {3}							3.604 E9	0.00
40) L,M	Aroclor 1262 {4}							6.785 E9	0.00
41) L,M	Aroclor 1262 {5}							2.407 E9	0.00
42) L	Aroclor 1268							7.026 E9	0.00
43) L	Aroclor 1268 {2}							9.211 E9	0.00
44) L	Aroclor 1268 {3}							5.976 E9	0.00
45) L	Aroclor 1268 {4}							2.412 E9	0.00
46) L	Aroclor 1268 {5}							3.134 E9	0.00
47) S	DCB	49.837	44.428	45.079	51.572	51.449	51.510	48.867 E9	7.04

Signal #2 Calibration Files
0.10 =09141607.d 0.20 =09141608.d 0.50 =09141610.d
1.0 =09141611.d 2.0 =09141612.d 3.0 =09141613.d

	Compound	0.10	0.20	0.50	1.0	2.0	3.0	Avg	%RSD
1) S	TCMX	11.567	11.123	10.671	10.754	10.500	10.464	10.652 E9	5.10
2) L	Aroclor 1016	1.972	1.897	1.735	1.693	1.568	1.522	1.669 E8	12.67

Response Factor Report GC14

Method Path : H:\GC14\
Method File : PC091416.M
Title :
Last Update : Mon Sep 19 17:13:00 2016
Response Via : Initial Calibration

Calibration Files
0.10 =09141607.d 0.20 =09141608.d 0.50 =09141610.d
1.0 =09141611.d 2.0 =09141612.d 3.0 =09141613.d

	Compound	0.10	0.20	0.50	1.0	2.0	3.0	Avg	%RSD
3)	L Aroclor 1016 {2}	2.998	2.838	2.628	2.515	2.322	2.217	2.487 E8	14.19
4)	L Aroclor 1016 {3}	4.464	4.508	4.091	4.406	4.295	4.166	4.209 E8	5.73
5)	L Aroclor 1016 {4}	2.983	3.034	2.740	2.854	2.775	2.704	2.765 E8	7.17
6)	L Aroclor 1016 {5}	2.609	2.478	2.343	2.360	2.350	2.281	2.336 E8	7.34
7)	L,M Aroclor 1221							7.207 E7	0.00
8)	L,M Aroclor 1221 {2}							9.935 E7	0.00
9)	L,M Aroclor 1221 {3}							5.754 E7	0.00
10)	L,M Aroclor 1221 {4}							2.103 E8	0.00
11)	L,M Aroclor 1221 {5}							2.866 E7	0.00
12)	L Aroclor 1232							1.796 E8	0.00
13)	L Aroclor 1232 {2}							1.008 E8	0.00
14)	L Aroclor 1232 {3}							1.676 E8	0.00
15)	L Aroclor 1232 {4}							1.096 E8	0.00
16)	L Aroclor 1232 {5}							8.943 E7	0.00
17)	L,M Aroclor 1242							1.722 E8	0.00
18)	L,M Aroclor 1242 {2}							3.185 E8	0.00
19)	L,M Aroclor 1242 {3}							2.066 E8	0.00
20)	L,M Aroclor 1242 {4}							1.788 E8	0.00
21)	L,M Aroclor 1242 {5}							1.819 E8	0.00
22)	L Aroclor 1248							1.959 E8	0.00
23)	L Aroclor 1248 {2}							2.800 E8	0.00
24)	L Aroclor 1248 {3}							2.409 E8	0.00
25)	L Aroclor 1248 {4}							3.713 E8	0.00
26)	L Aroclor 1248 {5}							3.043 E8	0.00
27)	L,M Aroclor 1254							3.439 E8	0.00
28)	L,M Aroclor 1254 {2}							3.785 E8	0.00
29)	L,M Aroclor 1254 {3}							4.660 E8	0.00
30)	L,M Aroclor 1254 {4}							3.944 E8	0.00
31)	L,M Aroclor 1254 {5}							4.717 E8	0.00
32)	L Aroclor 1260	5.024	4.332	4.374	4.322	4.126	4.069	4.251 E8	8.77
33)	L Aroclor 1260 {2}	5.618	5.908	6.076	6.102	5.858	5.723	5.770 E8	5.82
34)	L Aroclor 1260 {3}	3.983	3.946	3.866	3.996	3.896	3.863	3.862 E8	2.92
35)	L Aroclor 1260 {4}	6.955	7.150	7.472	7.686	7.524	7.505	7.336 E8	3.13
36)	L Aroclor 1260 {5}	1.945	1.986	1.835	1.926	1.847	1.855	1.876 E8	3.66
37)	L,M Aroclor 1262							4.183 E8	0.00
38)	L,M Aroclor 1262 {2}							5.452 E8	0.00
39)	L,M Aroclor 1262 {3}							5.103 E8	0.00
40)	L,M Aroclor 1262 {4}							9.710 E8	0.00
41)	L,M Aroclor 1262 {5}							3.805 E8	0.00
42)	L Aroclor 1268							1.102 E9	0.00
43)	L Aroclor 1268 {2}							1.321 E9	0.00
44)	L Aroclor 1268 {3}							8.102 E8	0.00
45)	L Aroclor 1268 {4}							4.140 E8	0.00
46)	L Aroclor 1268 {5}							2.372 E9	0.00
47)	S DCB	8.221	8.446	7.718	7.742	7.392	7.274	7.630 E9	6.40

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : H:\GC14\
Method File : PC091416.M
Title :
Last Update : Mon Sep 19 17:13:00 2016
Response Via : Initial Calibration

Calibration Files
0.10=09141607 0.20=09141608 0.50=09141610 1.0 =09141611 2.0 =09141612
3.0 =09141613 5.0 =09181641 10.0=09141615 0.30=09141609

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX	Lin	-5.0265 e7	74.4450 e9	-----	0.9999
2)	L	Aroclor 1016	Lin	8.3811 e7	8.8030 e8	-----	0.9992
3)	L	Aroclor 1016 {2}	Lin	2.7587 e8	1.8866 e9	-----	0.9984
4)	L	Aroclor 1016 {3}	Lin	2.0753 e8	2.6814 e9	-----	0.9992
5)	L	Aroclor 1016 {4}	Lin	1.0114 e8	1.4597 e9	-----	0.9992
6)	L	Aroclor 1016 {5}	Lin	1.2762 e8	1.4130 e9	-----	0.9987
7)	L,M	Aroclor 1221	Lin	-----	3.8305 e8	-----	1.0000
8)	L,M	Aroclor 1221 {2}	Lin	-----	6.3572 e8	-----	1.0000
9)	L,M	Aroclor 1221 {3}	Lin	-----	3.1140 e8	-----	1.0000
10)	L,M	Aroclor 1221 {4}	Lin	-----	1.3536 e9	-----	1.0000
11)	L,M	Aroclor 1221 {5}	Lin	-----	1.8420 e8	-----	1.0000
12)	L	Aroclor 1232	Lin	-----	1.1500 e9	-----	1.0000
13)	L	Aroclor 1232 {2}	Lin	-----	8.8173 e8	-----	1.0000
14)	L	Aroclor 1232 {3}	Lin	-----	1.1615 e9	-----	1.0000
15)	L	Aroclor 1232 {4}	Lin	-----	6.4782 e8	-----	1.0000
16)	L	Aroclor 1232 {5}	Lin	-----	6.1736 e8	-----	1.0000
17)	L,M	Aroclor 1242	Lin	-----	1.5907 e9	-----	1.0000
18)	L,M	Aroclor 1242 {2}	Lin	-----	2.1588 e9	-----	1.0000
19)	L,M	Aroclor 1242 {3}	Lin	-----	1.2153 e9	-----	1.0000
20)	L,M	Aroclor 1242 {4}	Lin	-----	1.2320 e9	-----	1.0000
21)	L,M	Aroclor 1242 {5}	Lin	-----	1.2345 e9	-----	1.0000
22)	L	Aroclor 1248	Lin	-----	1.3021 e9	-----	1.0000
23)	L	Aroclor 1248 {2}	Lin	-----	1.8595 e9	-----	1.0000
24)	L	Aroclor 1248 {3}	Lin	-----	1.2936 e9	-----	1.0000
25)	L	Aroclor 1248 {4}	Lin	-----	1.9671 e9	-----	1.0000
26)	L	Aroclor 1248 {5}	Lin	-----	1.2429 e9	-----	1.0000
27)	L,M	Aroclor 1254	Lin	-----	1.9251 e9	-----	1.0000
28)	L,M	Aroclor 1254 {2}	Lin	-----	3.3556 e9	-----	1.0000
29)	L,M	Aroclor 1254 {3}	Lin	-----	3.4337 e9	-----	1.0000
30)	L,M	Aroclor 1254 {4}	Lin	-----	2.7654 e9	-----	1.0000
31)	L,M	Aroclor 1254 {5}	Lin	-----	4.2092 e9	-----	1.0000
32)	L	Aroclor 1260	Lin	4.1994 e8	4.2572 e9	-----	0.9982
33)	L	Aroclor 1260 {2}	Lin	2.4394 e8	3.7659 e9	-----	0.9972
34)	L	Aroclor 1260 {3}	Lin	5.1237 e7	2.4069 e9	-----	0.9994
35)	L	Aroclor 1260 {4}	Lin	2.5397 e8	4.8716 e9	-----	0.9981
36)	L	Aroclor 1260 {5}	Lin	-1.6467 e8	1.2031 e9	-----	0.9987
37)	L,M	Aroclor 1262	Lin	-----	2.9876 e9	-----	1.0000
38)	L,M	Aroclor 1262 {2}	Lin	-----	3.8609 e9	-----	1.0000
39)	L,M	Aroclor 1262 {3}	Lin	-----	3.6037 e9	-----	1.0000
40)	L,M	Aroclor 1262 {4}	Lin	-----	6.7854 e9	-----	1.0000
41)	L,M	Aroclor 1262 {5}	Lin	-----	2.4068 e9	-----	1.0000
42)	L	Aroclor 1268	Lin	-----	7.0263 e9	-----	1.0000
43)	L	Aroclor 1268 {2}	Lin	-----	9.2110 e9	-----	1.0000
44)	L	Aroclor 1268 {3}	Lin	-----	5.9757 e9	-----	1.0000
45)	L	Aroclor 1268 {4}	Lin	-----	2.4116 e9	-----	1.0000
46)	L	Aroclor 1268 {5}	Lin	-----	3.1341 e9	-----	1.0000
47)	S	DCB	Lin	-1.7895 e7	51.3125 e9	-----	0.9999

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX	Lin	1.3254 e7	9.8473 e9	-----	0.9997
2)	L	Aroclor 1016	Lin	2.2130 e7	1.3700 e8	-----	0.9990
3)	L	Aroclor 1016 {2}	Lin	3.3093 e7	2.0098 e8	-----	0.9990
4)	L	Aroclor 1016 {3}	Lin	3.7810 e7	3.8246 e8	-----	0.9991

Method Path : H:\GC14\
Method File : PC091416.M
Title :
Last Update : Mon Sep 19 17:13:00 2016
Response Via : Initial Calibration

Calibration Files
0.10=09141607 0.20=09141608 0.50=09141610 1.0 =09141611 2.0 =09141612
3.0 =09141613 5.0 =09181641 10.0=09141615 0.30=09141609

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
5) L	Aroclor 1016 {4}	Lin	3.1126 e7	2.4323 e8	-----	0.9988
6) L	Aroclor 1016 {5}	Lin	2.6382 e7	2.0506 e8	-----	0.9987
7) L,M	Aroclor 1221	Lin	-----	7.2071 e7	-----	1.0000
8) L,M	Aroclor 1221 {2}	Lin	-----	9.9350 e7	-----	1.0000
9) L,M	Aroclor 1221 {3}	Lin	-----	5.7540 e7	-----	1.0000
10) L,M	Aroclor 1221 {4}	Lin	-----	2.1030 e8	-----	1.0000
11) L,M	Aroclor 1221 {5}	Lin	-----	2.8665 e7	-----	1.0000
12) L	Aroclor 1232	Lin	-----	1.7958 e8	-----	1.0000
13) L	Aroclor 1232 {2}	Lin	-----	1.0081 e8	-----	1.0000
14) L	Aroclor 1232 {3}	Lin	-----	1.6764 e8	-----	1.0000
15) L	Aroclor 1232 {4}	Lin	-----	1.0955 e8	-----	1.0000
16) L	Aroclor 1232 {5}	Lin	-----	8.9433 e7	-----	1.0000
17) L,M	Aroclor 1242	Lin	-----	1.7225 e8	-----	1.0000
18) L,M	Aroclor 1242 {2}	Lin	-----	3.1852 e8	-----	1.0000
19) L,M	Aroclor 1242 {3}	Lin	-----	2.0661 e8	-----	1.0000
20) L,M	Aroclor 1242 {4}	Lin	-----	1.7879 e8	-----	1.0000
21) L,M	Aroclor 1242 {5}	Lin	-----	1.8195 e8	-----	1.0000
22) L	Aroclor 1248	Lin	-----	1.9591 e8	-----	1.0000
23) L	Aroclor 1248 {2}	Lin	-----	2.7996 e8	-----	1.0000
24) L	Aroclor 1248 {3}	Lin	-----	2.4090 e8	-----	1.0000
25) L	Aroclor 1248 {4}	Lin	-----	3.7128 e8	-----	1.0000
26) L	Aroclor 1248 {5}	Lin	-----	3.0426 e8	-----	1.0000
27) L,M	Aroclor 1254	Lin	-----	3.4387 e8	-----	1.0000
28) L,M	Aroclor 1254 {2}	Lin	-----	3.7845 e8	-----	1.0000
29) L,M	Aroclor 1254 {3}	Lin	-----	4.6597 e8	-----	1.0000
30) L,M	Aroclor 1254 {4}	Lin	-----	3.9435 e8	-----	1.0000
31) L,M	Aroclor 1254 {5}	Lin	-----	4.7167 e8	-----	1.0000
32) L	Aroclor 1260	Lin	3.7356 e7	3.7654 e8	-----	0.9995
33) L	Aroclor 1260 {2}	Lin	6.1972 e7	5.1890 e8	-----	0.9989
34) L	Aroclor 1260 {3}	Lin	1.6140 e7	3.6940 e8	-----	0.9997
35) L	Aroclor 1260 {4}	Lin	1.7663 e7	7.2503 e8	-----	0.9998
36) L	Aroclor 1260 {5}	Lin	5.9230 e6	1.7944 e8	-----	0.9998
37) L,M	Aroclor 1262	Lin	-----	4.1827 e8	-----	1.0000
38) L,M	Aroclor 1262 {2}	Lin	-----	5.4516 e8	-----	1.0000
39) L,M	Aroclor 1262 {3}	Lin	-----	5.1033 e8	-----	1.0000
40) L,M	Aroclor 1262 {4}	Lin	-----	9.7103 e8	-----	1.0000
41) L,M	Aroclor 1262 {5}	Lin	-----	3.8053 e8	-----	1.0000
42) L	Aroclor 1268	Lin	-----	1.1024 e9	-----	1.0000
43) L	Aroclor 1268 {2}	Lin	-----	1.3208 e9	-----	1.0000
44) L	Aroclor 1268 {3}	Lin	-----	8.1025 e8	-----	1.0000
45) L	Aroclor 1268 {4}	Lin	-----	4.1399 e8	-----	1.0000
46) L	Aroclor 1268 {5}	Lin	-----	2.3722 e9	-----	1.0000
47) S	DCB	Lin	6.6708 e6	7.0679 e9	-----	0.9998

Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141607.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 1:10 pm
Operator : EBB
Sample : PCB ICAL 0.1 ug/mL
Misc : 100-8313
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:27:28 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.008	3.387	127.7E6	23133372	<MDL	0.000m#
47) S	DCB	8.586	9.892	99674247	16441014	0.004m	0.000m#
	Target Compounds						
4) L	Aroclor 1...	3.944	4.647	268.1E6	44637697	0.047	0.007m#
5) L	Aroclor 1...	4.061	4.785	145.2E6	29832368	0.020m	N.D. m#
	Sum Aroclor 1016			413.3E6	44637697	0.067	N.D.
	Average Aroclor 1016					0.033	-0.013
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.951	6.682	379.0E6	50242165	0.073	0.043m#
33) L	Aroclor 1...	6.262	6.914	272.6E6	56183709	0.143m	0.055m#
34) L	Aroclor 1...	6.662	7.793	209.1E6	39828975	0.148	0.093m#
35) L	Aroclor 1...	7.013	8.080	385.0E6	69554607	0.075m	0.116m#
36) L	Aroclor 1...	8.043	9.192	85132043	19453481	0.256m	0.173m#
	Sum Aroclor 1260			1330.8E6	235.3E6	0.695	0.479
	Average Aroclor 1260					0.139	0.096
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

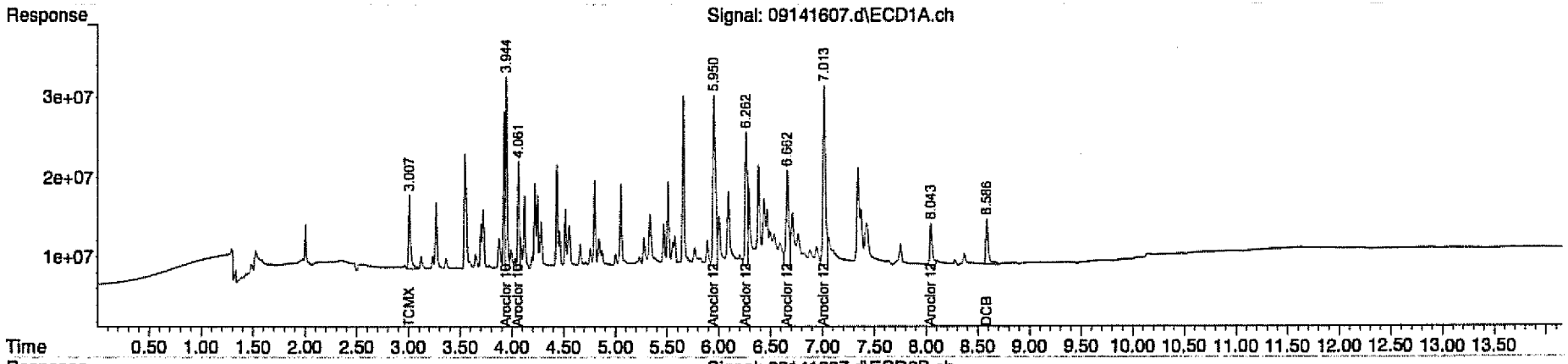
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

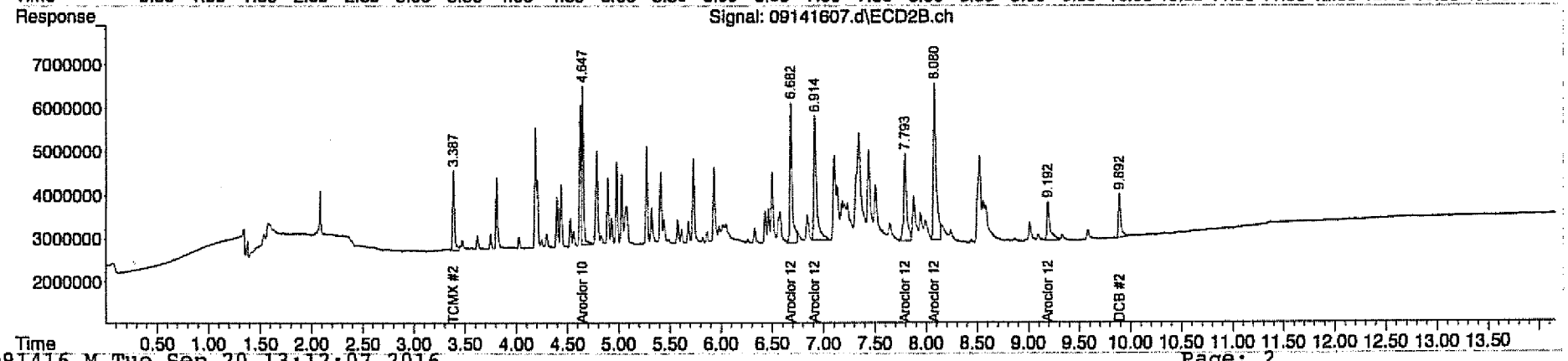
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141607.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 1:10 pm
Operator : EBB
Sample : PCB ICAL 0.1 ug/mL
Misc : 100-8313
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:27:28 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC14\091416PC\
Data File : 09141608.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 1:27 pm
Operator : EBB
Sample : PCB ICAL 0.2 ug/mL
Misc : 100-8313
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:27:46 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

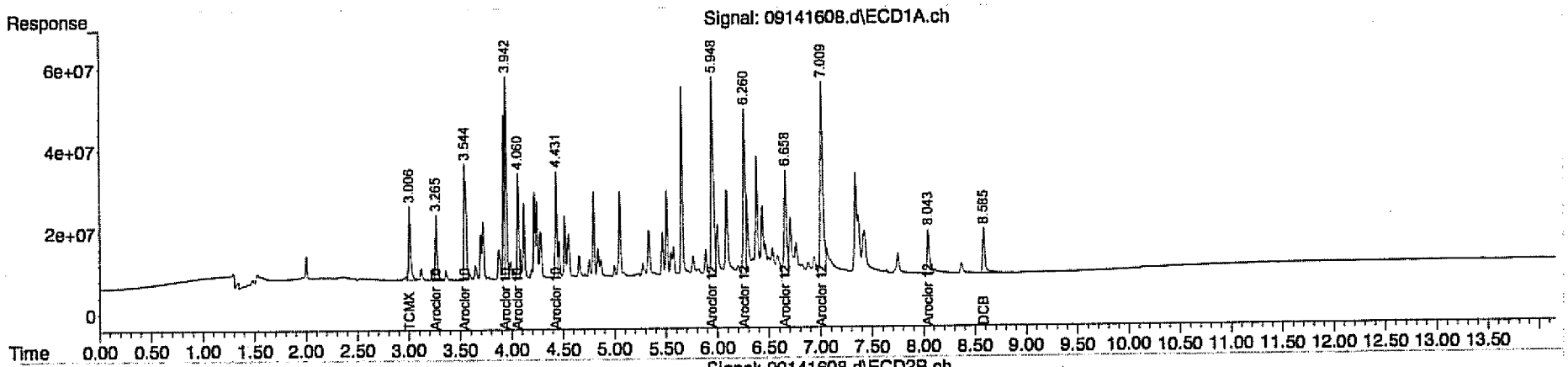
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.007	3.386	250.6E6	44493119	<MDL	0.002m#
17) S	DCB	8.586	9.892	177.7E6	33782030	0.006	0.003m#
	Target Compounds						
2) L	Aroclor 1016	3.265	3.808	196.4E6	37930223	0.103	0.068m#
3) L	Aroclor 1...	3.544	4.185	444.9E6	56768318	0.071	0.074m
4) L	Aroclor 1...	3.943	4.646	551.6E6	90164312	0.174	0.137m
5) L	Aroclor 1...	4.060	4.784	297.2E6	60687864	0.145m	0.118m
6) L	Aroclor 1...	4.431	5.273	274.0E6	49553339	0.103	0.099m
	Sum Aroclor 1016			1764.0E6	295.1E6	0.597	0.496
	Average Aroclor 1016					0.119	0.099
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.948	6.680	810.6E6	86643090	0.186	0.144m
33) L	Aroclor 1...	6.260	6.913	588.0E6	118.2E6	0.237m	0.187
34) L	Aroclor 1...	6.659	7.791	404.9E6	78912169	0.256	0.207m
35) L	Aroclor 1...	7.009	8.079	836.2E6	143.0E6	0.191m	0.228m
36) L	Aroclor 1...	8.044	9.191	169.5E6	39729233	0.351	0.324m
	Sum Aroclor 1260			2809.2E6	466.4E6	1.222	1.089
	Average Aroclor 1260					0.244	0.218
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

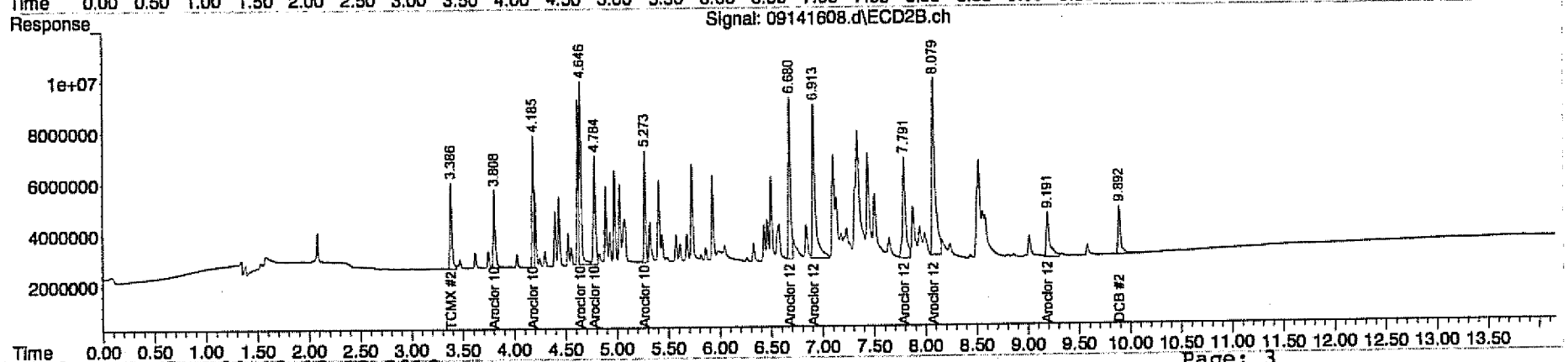
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141608.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 1:27 pm
Operator : EBB
Sample : PCB ICAL 0.2 ug/mL
Misc : 100-8313
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:27:46 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141609.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 1:45 pm
Operator : EBB
Sample : PCB ICAL 0.3 ug/mL
Misc : 100-8313
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:28:12 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

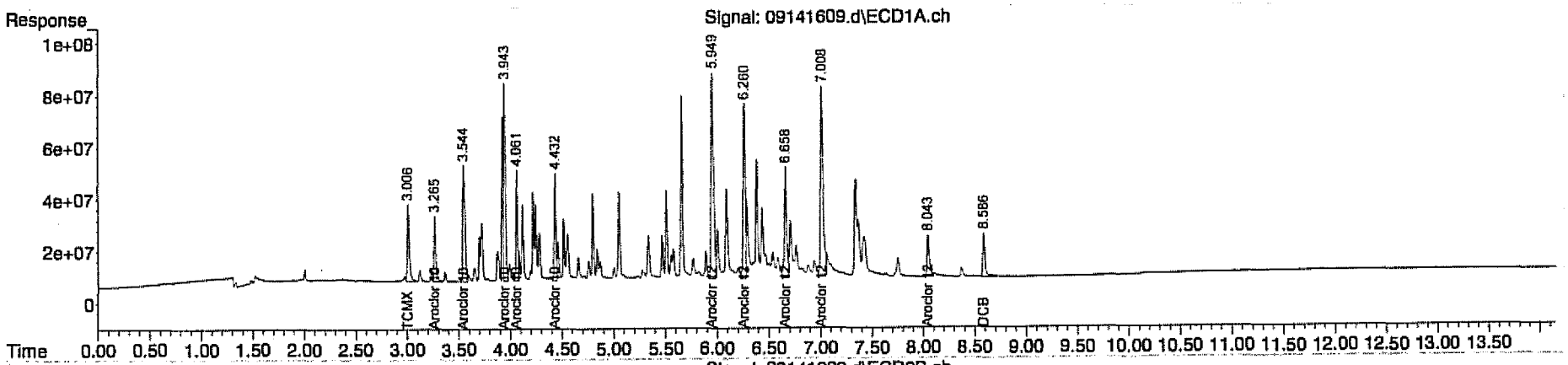
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.007	3.387	388.1E6	65894397	<MDL	0.004m
47) S	DCB	8.586	9.891	261.4E6	46634988	0.008m	0.005 #
	Target Compounds						
2) L	Aroclor 1016	3.266	3.809	292.9E6	55180783	0.226	0.199
3) L	Aroclor 1...	3.545	4.186	684.1E6	83548731	0.209	0.211m
4) L	Aroclor 1...	3.943	4.647	856.2E6	127.1E6	0.311	0.243m
5) L	Aroclor 1...	4.061	4.785	450.9E6	85498401	0.272m	0.229m
6) L	Aroclor 1...	4.432	5.274	438.8E6	72981589	0.236	0.222m
	Sum Aroclor 1016			2723.0E6	424.3E6	1.253	1.103
	Average Aroclor 1016					0.251	0.221
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.949	6.681	1269.8E6	132.6E6	0.307	0.270m
33) L	Aroclor 1...	6.260	6.913	948.4E6	183.7E6	0.345	0.326
34) L	Aroclor 1...	6.659	7.791	634.2E6	114.7E6	0.383	0.311
35) L	Aroclor 1...	7.008	8.078	1261.7E6	219.1E6	0.301m	0.344m
36) L	Aroclor 1...	8.044	9.192	255.5E6	57128477	0.447	0.454m
	Sum Aroclor 1260			4369.6E6	707.2E6	1.783	1.706
	Average Aroclor 1260					0.357	0.341
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

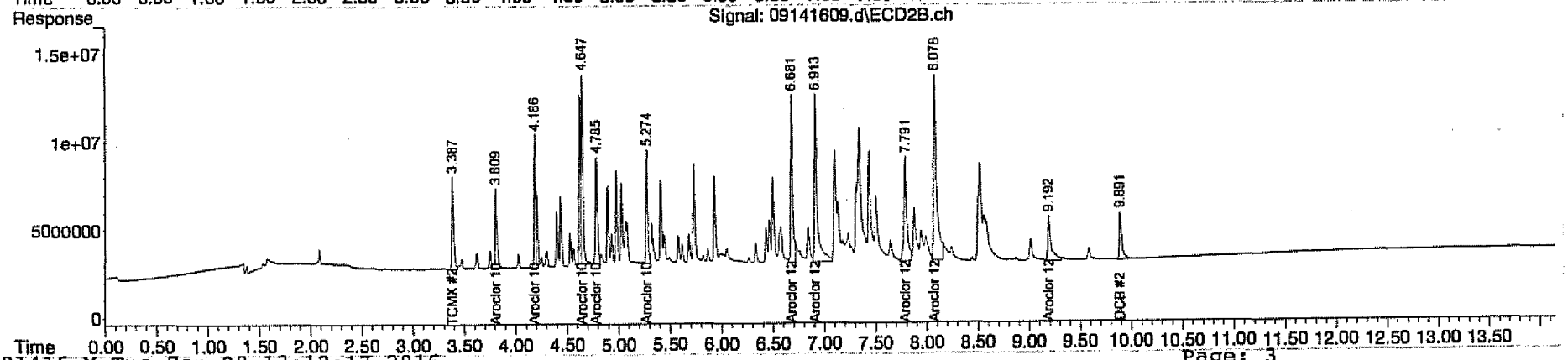
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141609.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 1:45 pm
Operator : EBB
Sample : PCB ICAL 0.3 ug/mL
Misc : 100-8313
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:28:12 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141610.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:02 pm
Operator : EBB
Sample : PCB ICAL 0.5 ug/mL
Misc : 100-8313
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:26:57 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

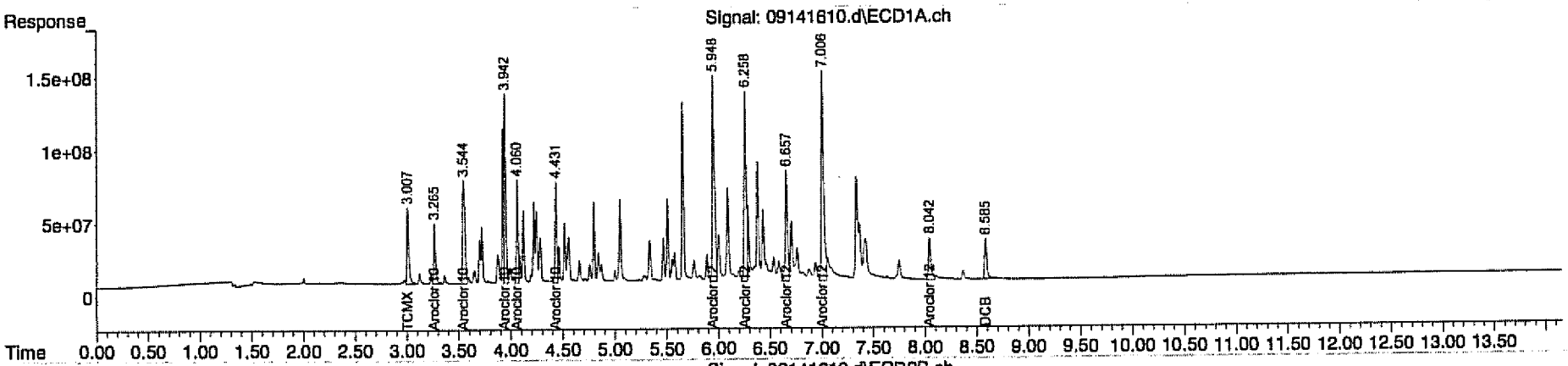
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.007	3.387	650.7E6	106.7E6	<MDL	0.009m
47) S	DCB	8.585	9.890	450.8E6	77176461	0.013	0.009 #
	Target Compounds						
2) L	Aroclor 1016	3.265	3.808	489.0E6	86743283	0.475	0.440
3) L	Aroclor 1...	3.544	4.186	1121.1E6	131.4E6	0.460	0.455m
4) L	Aroclor 1...	3.943	4.646	1441.9E6	204.5E6	0.573	0.464m
5) L	Aroclor 1...	4.060	4.784	761.2E6	137.0E6	0.527m	0.459m
6) L	Aroclor 1...	4.431	5.273	740.1E6	117.2E6	0.480	0.452m
	Sum Aroclor 1016			4553.3E6	676.8E6	2.516	2.271
	Average Aroclor 1016					0.503	0.454
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.948	6.680	2229.5E6	218.7E6	0.558	0.508m
33) L	Aroclor 1...	6.259	6.913	1758.3E6	303.8E6	0.586	0.582
34) L	Aroclor 1...	6.658	7.791	1131.3E6	193.3E6	0.658	0.541
35) L	Aroclor 1...	7.006	8.077	2301.1E6	373.6E6	0.570	0.580m
36) L	Aroclor 1...	8.043	9.190	453.8E6	91762480	0.670	0.712
	Sum Aroclor 1260			7873.9E6	1181.2E6	3.042	2.924
	Average Aroclor 1260					0.608	0.585
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

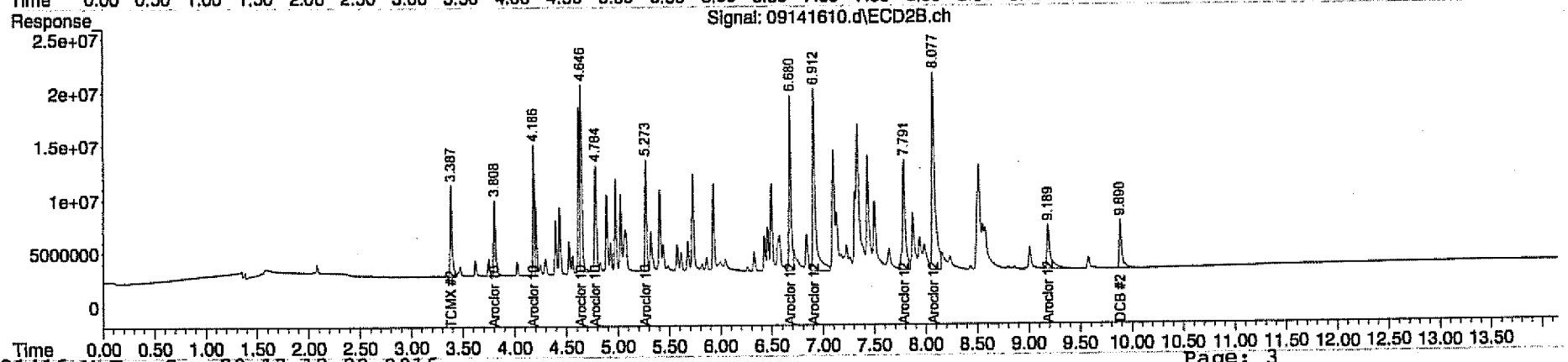
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141610.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:02 pm
Operator : EBB
Sample : PCB ICAL 0.5 ug/mL
Misc : 100-8313
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:26:57 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141611.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:20 pm
Operator : EBB
Sample : PCB ICAL 1.0 ug/mL
Misc : 100-8313
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:31:02 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

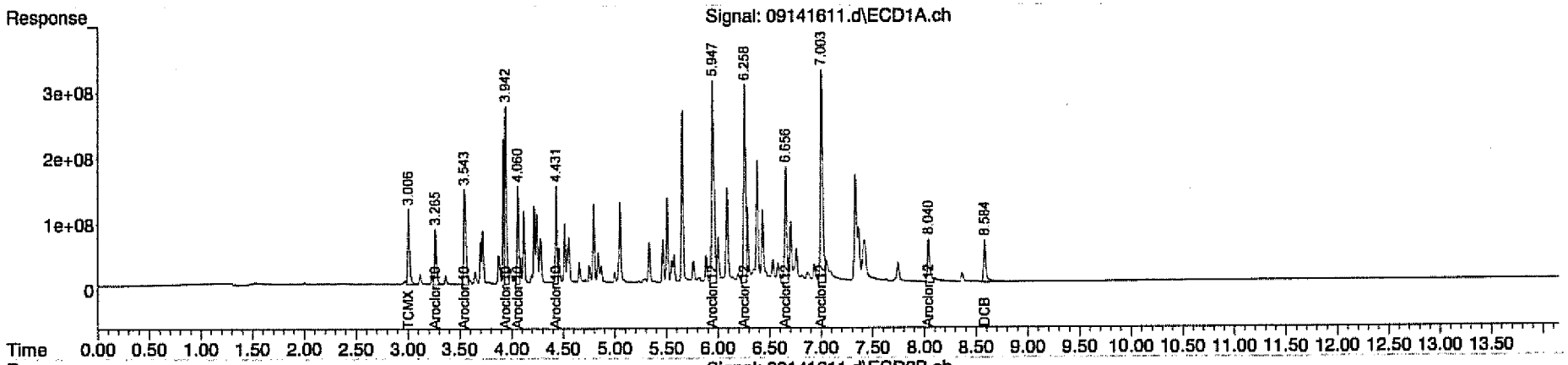
		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds								
1)	S	TCMX	3.006	3.386	1419.6E6	215.1E6	0.021	0.020
47)	S	DCB	8.585	9.889	1031.4E6	154.8E6	0.028	0.021
Target Compounds								
2)	L	Aroclor 1016	3.265	3.807	1008.3E6	169.3E6	1.135	1.070
3)	L	Aroclor 1...	3.543	4.185	2288.6E6	251.5E6	1.132m	1.069
4)	L	Aroclor 1...	3.943	4.646	3022.0E6	440.6E6	1.281	1.141
5)	L	Aroclor 1...	4.060	4.784	1654.2E6	285.4E6	1.263m	1.120
6)	L	Aroclor 1...	4.431	5.273	1599.9E6	236.0E6	1.175	1.073m
		Sum Aroclor 1016			9573.0E6	1383.0E6	5.986	5.473
		Average Aroclor 1016					1.197	1.095
		Sum Aroclor 1221			0	0	N.D.	N.D.
		Average Aroclor 1221					0.000	0.000
		Sum Aroclor 1232			0	0	N.D.	N.D.
		Average Aroclor 1232					0.000	0.000
		Sum Aroclor 1242			0	0	N.D.	N.D.
		Average Aroclor 1242					0.000	0.000
		Sum Aroclor 1248			0	0	N.D.	N.D.
		Average Aroclor 1248					0.000	0.000
		Sum Aroclor 1254			0	0	N.D.	N.D.
		Average Aroclor 1254					0.000	0.000
32)	L	Aroclor 1260	5.947	6.680	4873.1E6	432.2E6	1.251	1.097
33)	L	Aroclor 1...	6.258	6.912	3992.1E6	610.2E6	1.252m	1.235
34)	L	Aroclor 1...	6.656	7.789	2535.3E6	399.6E6	1.436	1.144
35)	L	Aroclor 1...	7.004	8.075	5032.1E6	768.6E6	1.276	1.183
36)	L	Aroclor 1...	8.041	9.189	1034.8E6	192.6E6	1.322	1.464
		Sum Aroclor 1260			17467.3E6	2403.3E6	6.536	6.124
		Average Aroclor 1260					1.307	1.225
		Sum Aroclor 1262			0	0	N.D.	N.D.
		Average Aroclor 1262					0.000	0.000
		Sum Aroclor 1268			0	0	N.D.	N.D.
		Average Aroclor 1268					0.000	0.000

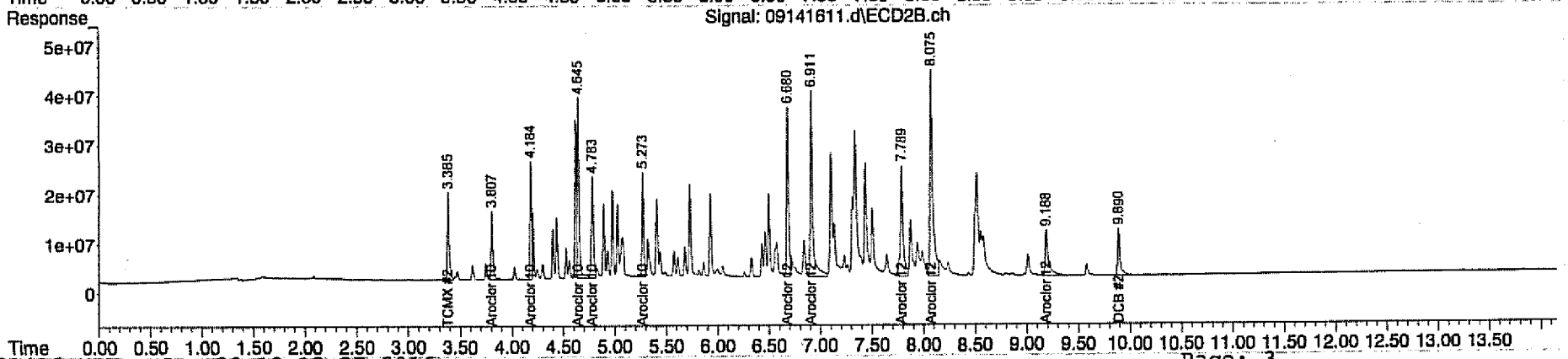
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141611.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:20 pm
Operator : EBB
Sample : PCB ICAL 1.0 ug/mL
Misc : 100-8313
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:31:02 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141612.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:37 pm
Operator : EBB
Sample : PCB ICAL 2.0 ug/mL
Misc : 100-8313
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:33:13 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

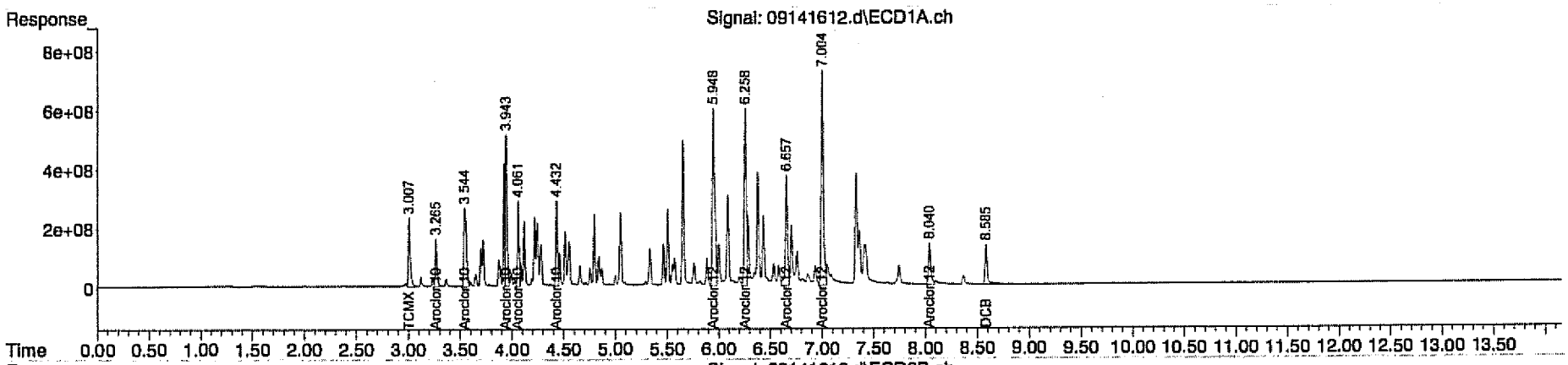
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.008	3.387	2950.3E6	420.0E6	0.043	0.040
47) S	DCB	8.585	9.890	2058.0E6	295.7E6	0.054	0.042
	Target Compounds						
2) L	Aroclor 1016	3.266	3.808	1956.0E6	313.7E6	2.339	2.171
3) L	Aroclor 1...	3.544	4.186	4382.3E6	464.4E6	2.337m	2.156
4) L	Aroclor 1...	3.943	4.646	5965.0E6	859.0E6	2.600	2.339
5) L	Aroclor 1...	4.061	4.784	3222.5E6	555.1E6	2.556m	2.322
6) L	Aroclor 1...	4.432	5.273	3158.3E6	470.1E6	2.434	2.295
	Sum Aroclor 1016			18684.1E6	2662.2E6	12.266	11.283
	Average Aroclor 1016					2.453	2.257
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.948	6.680	9602.9E6	825.2E6	2.490	2.182
33) L	Aroclor 1...	6.258	6.912	8204.6E6	1171.5E6	2.509m	2.431
34) L	Aroclor 1...	6.657	7.789	5215.5E6	779.2E6	2.920	2.253
35) L	Aroclor 1...	7.004	8.073	10469.9E6	1504.8E6	2.681	2.307
36) L	Aroclor 1...	8.040	9.188	2152.2E6	369.4E6	2.576	2.782
	Sum Aroclor 1260			35645.1E6	4650.1E6	13.175	11.955
	Average Aroclor 1260					2.635	2.391
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

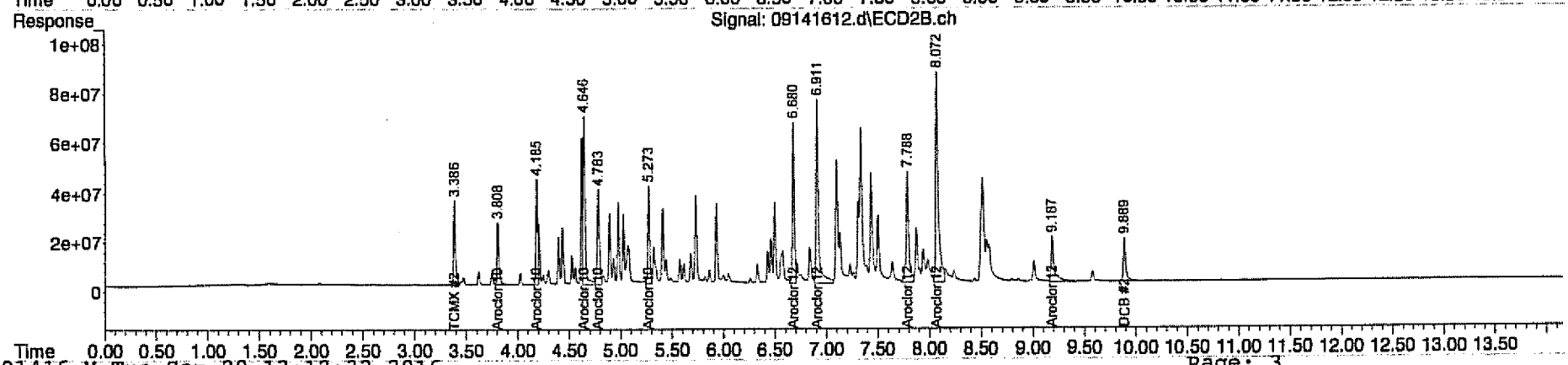
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141612.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:37 pm
Operator : EBB
Sample : PCB ICAL 2.0 ug/mL
Misc : 100-8313
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:33:13 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141613.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:55 pm
Operator : EBB
Sample : PCB ICAL 3.0 ug/mL
Misc : 100-8313
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:34:34 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

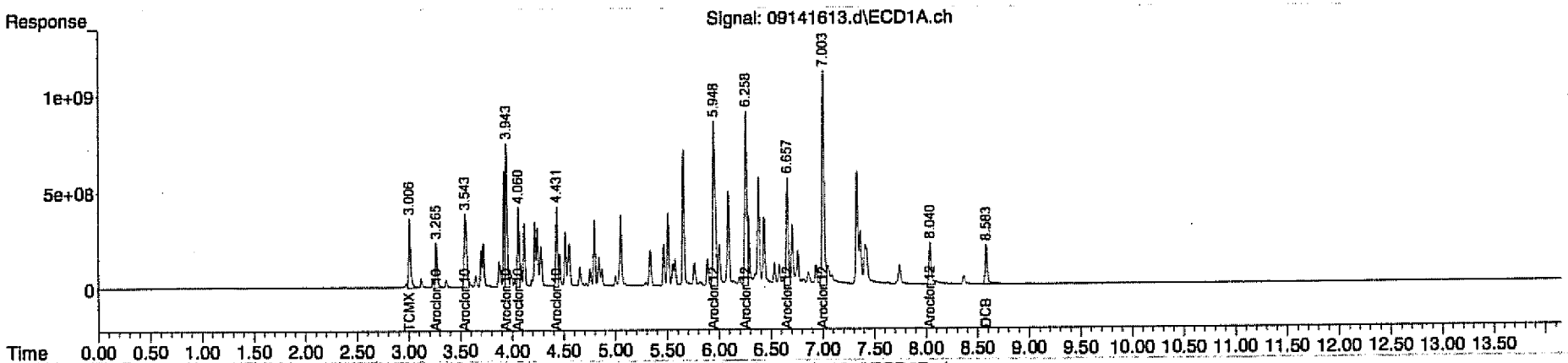
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.007	3.387	4509.2E6	627.8E6	0.067	0.061
47) S	DCB	8.584	9.889	3090.6E6	436.4E6	0.080	0.063
	Target Compounds						
2) L	Aroclor 1016	3.265	3.808	2871.8E6	456.6E6	3.503	3.261
3) L	Aroclor 1...	3.544	4.186	6352.7E6	665.1E6	3.471	3.182
4) L	Aroclor 1...	3.943	4.647	8646.3E6	1249.7E6	3.802	3.457
5) L	Aroclor 1...	4.060	4.785	4706.8E6	811.2E6	3.779m	3.464
6) L	Aroclor 1...	4.432	5.273	4675.3E6	684.3E6	3.660	3.413
	Sum Aroclor 1016			27252.9E6	3867.0E6	18.214	16.778
	Average Aroclor 1016					3.643	3.356
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.948	6.681	14191.9E6	1220.6E6	3.692	3.273
33) L	Aroclor 1...	6.258	6.912	12508.8E6	1716.9E6	3.792	3.593
34) L	Aroclor 1...	6.658	7.789	7530.6E6	1158.9E6	4.202	3.363m
35) L	Aroclor 1...	7.004	8.074	15948.5E6	2251.6E6	4.097	3.448
36) L	Aroclor 1...	8.040	9.188	3327.9E6	556.6E6	3.895	4.177
	Sum Aroclor 1260			53507.6E6	6904.6E6	19.678	17.854
	Average Aroclor 1260					3.936	3.571
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

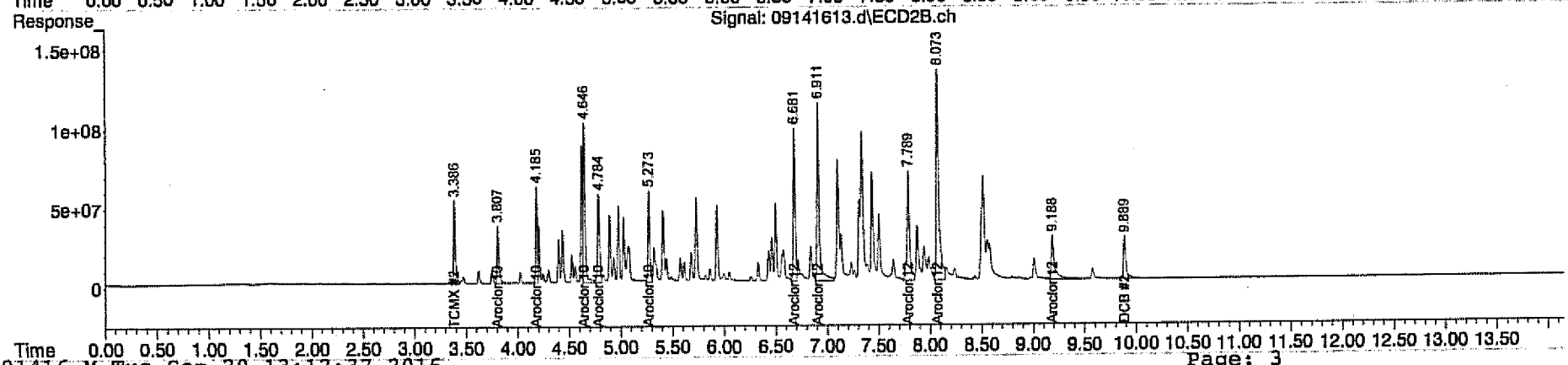
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141613.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 2:55 pm
Operator : EBB
Sample : PCB ICAL 3.0 ug/mL
Misc : 100-8313
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:34:34 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141614.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:12 pm
Operator : EBB
Sample : PCB ICAL 5.0 ug/mL
Misc : 100-8313
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:36:02 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

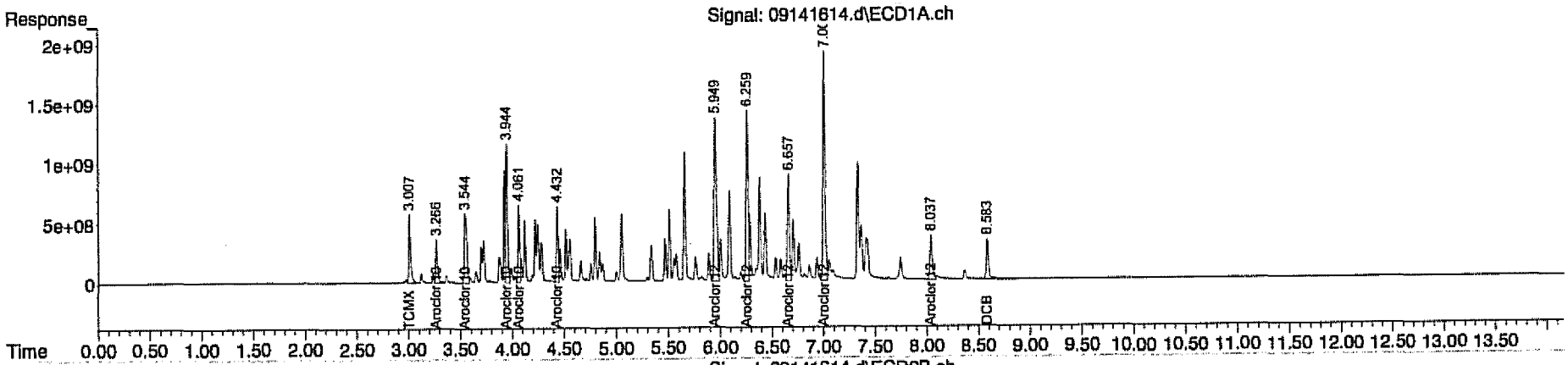
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.008	3.388	7297.2E6	992.8E6	0.108	0.098
47) S	DCB	8.583	9.891	5121.9E6	699.2E6	0.132	0.102
	Target Compounds						
2) L	Aroclor 1016	3.266	3.809	4464.8E6	705.5E6	5.527	5.160
3) L	Aroclor 1...	3.545	4.187	9740.7E6	1020.4E6	5.421	4.997
4) L	Aroclor 1...	3.944	4.648	13483.8E6	1938.7E6	5.970	5.430
5) L	Aroclor 1...	4.061	4.786	7284.7E6	1251.0E6	5.903m	5.425
6) L	Aroclor 1...	4.433	5.275	7257.2E6	1057.2E6	5.746	5.360
	Sum Aroclor 1016			42231.3E6	5972.8E6	28.567	26.372
	Average Aroclor 1016					5.713	5.274
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.949	6.682	22145.7E6	1904.0E6	5.776	5.159
33) L	Aroclor 1...	6.259	6.913	20081.8E6	2658.2E6	6.050	5.598
34) L	Aroclor 1...	6.657	7.789	11941.8E6	1836.4E6	6.645	5.343m
35) L	Aroclor 1...	7.004	8.073	25604.7E6	3577.7E6	6.592	5.473
36) L	Aroclor 1...	8.038	9.188	5576.9E6	890.7E6	6.419	6.669
	Sum Aroclor 1260			85351.0E6	10867.0E6	31.483	28.241
	Average Aroclor 1260					6.297	5.648
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

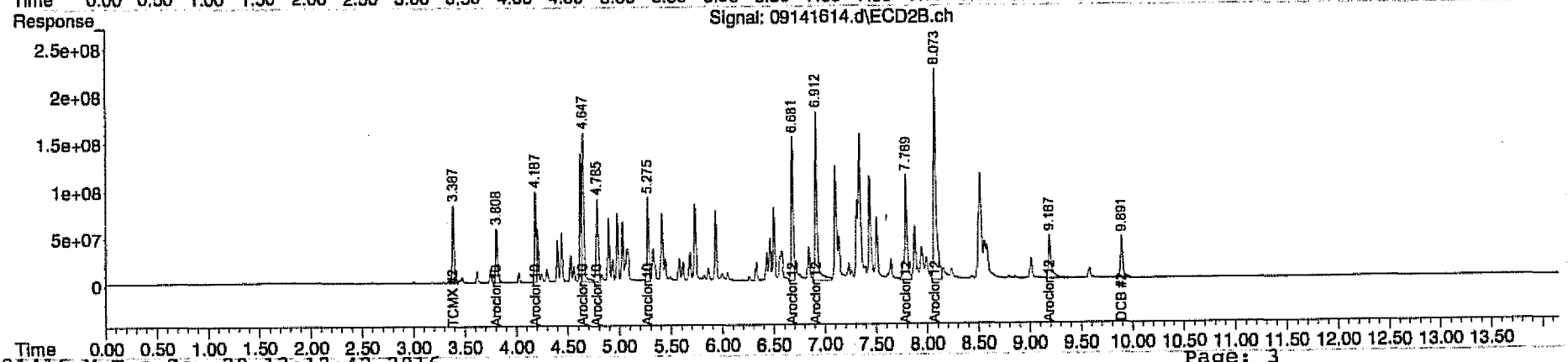
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141614.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:12 pm
Operator : EBB
Sample : PCB ICAL 5.0 ug/mL
Misc : 100-8313
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:36:02 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141615.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:30 pm
Operator : EBB
Sample : PCB ICAL 10.0 ug/mL
Misc : 100-8313
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:38:08 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

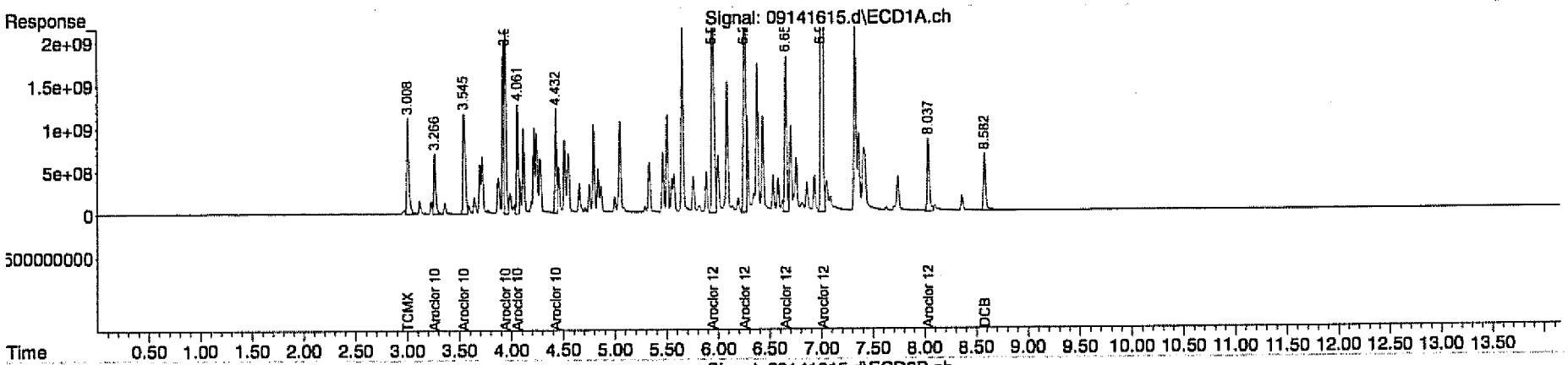
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.008	3.387	14858.8E6	1975.8E6	0.221	0.198
47) S	DCB	8.583	9.889	10227.6E6	1423.9E6	0.262	0.210
	Target Compounds						
2) L	Aroclor 1016	3.266	3.808	8831.6E6	1382.3E6	11.076	10.322
3) L	Aroclor 1...	3.546	4.186	18937.3E6	2036.3E6	10.714	10.187
4) L	Aroclor 1...	3.945	4.647	26892.7E6	3838.3E6	11.979	10.870
5) L	Aroclor 1...	4.062	4.785	14647.2E6	2439.9E6	11.969	10.726
6) L	Aroclor 1...	4.432	5.274	14098.6E6	2055.8E6	11.274	10.573
	Sum Aroclor 1016			83407.3E6	11752.5E6	57.013	52.677
	Average Aroclor 1016					11.403	10.535
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.953	6.681	42361.6E6	3787.6E6	11.071	10.357
33) L	Aroclor 1...	6.263	6.912	37067.6E6	5206.7E6	11.115	11.028
34) L	Aroclor 1...	6.657	7.789	24049.9E6	3707.9E6	13.351	10.811m
35) L	Aroclor 1...	7.020	8.073	48109.1E6	7274.3E6	12.408	11.117
36) L	Aroclor 1...	8.037	9.186	12050.7E6	1801.5E6	13.685	13.460
	Sum Aroclor 1260			163638.8E6	21778.1E6	61.631	56.773
	Average Aroclor 1260					12.326	11.355
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

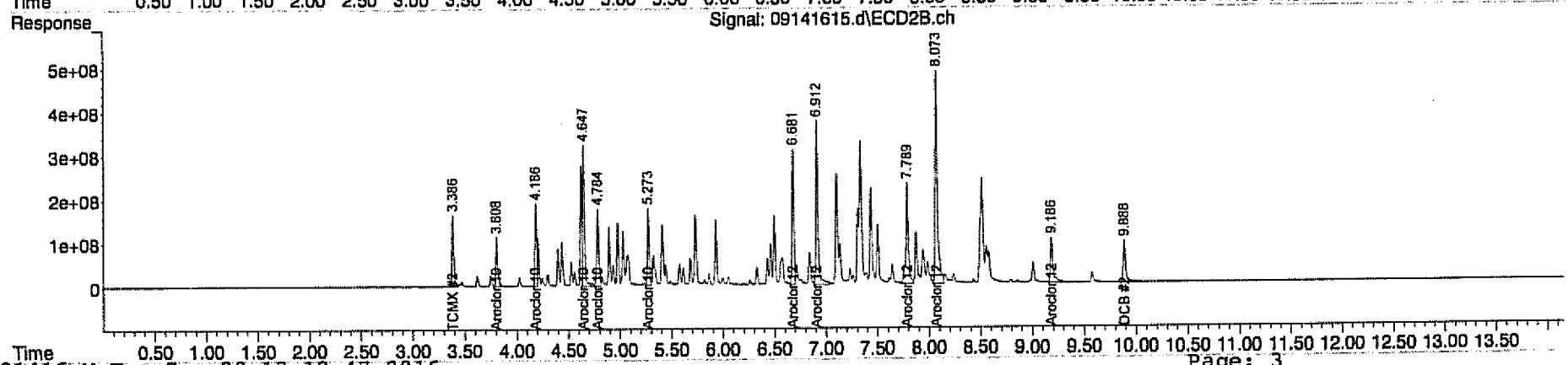
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141615.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:30 pm
Operator : EBB
Sample : PCB ICAL 10.0 ug/mL
Misc : 100-8313
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:38:08 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 08 11:52:09 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:47 pm
Operator : EBB
Sample : PCB ICV 5.0 ug/mL
Misc : 100-8312
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:41:31 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Wed Sep 14 16:39:49 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

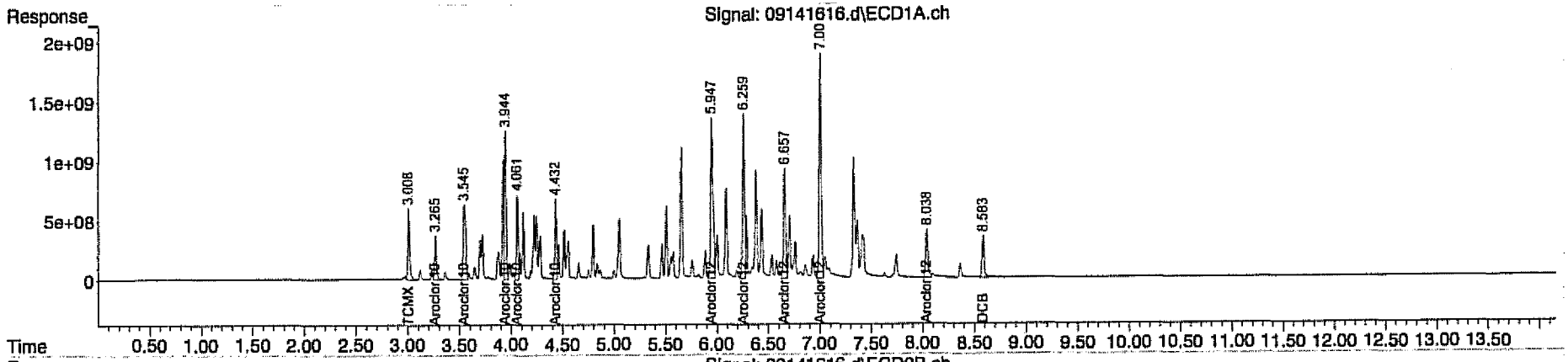
		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds								
1)	S	TCMX	3.008	3.387	7473.0E6	1014.9E6	0.101	0.102
47)	S	DCB	8.583	9.889	5311.1E6	747.1E6	0.104m	0.105
Target Compounds								
2)	L	Aroclor 1016	3.266	3.808	4662.4E6	736.9E6	5.201	5.217
3)	L	Aroclor 1...	3.545	4.186	10441.1E6	1130.1E6	5.388	5.458
4)	L	Aroclor 1...	3.944	4.646	14589.8E6	2105.6E6	5.364	5.406
5)	L	Aroclor 1...	4.061	4.784	7942.0E6	1350.7E6	5.372	5.425
6)	L	Aroclor 1...	4.432	5.274	7778.6E6	1117.9E6	5.415	5.323
		Sum Aroclor 1016			45414.1E6	6441.2E6	26.739	26.830
		Average Aroclor 1016					5.348	5.366
		Sum Aroclor 1221			0	0	N.D.	N.D.
		Average Aroclor 1221					0.000	0.000
		Sum Aroclor 1232			0	0	N.D.	N.D.
		Average Aroclor 1232					0.000	0.000
		Sum Aroclor 1242			0	0	N.D.	N.D.
		Average Aroclor 1242					0.000	0.000
		Sum Aroclor 1248			0	0	N.D.	N.D.
		Average Aroclor 1248					0.000	0.000
		Sum Aroclor 1254			0	0	N.D.	N.D.
		Average Aroclor 1254					0.000	0.000
32)	L	Aroclor 1260	5.948	6.681	21808.0E6	1923.3E6	5.024	5.008
33)	L	Aroclor 1...	6.259	6.912	19201.2E6	2632.6E6	5.034	4.954
34)	L	Aroclor 1...	6.657	7.788	12547.1E6	1891.1E6	5.192	5.076m
35)	L	Aroclor 1...	7.004	8.074	25919.7E6	3705.4E6	5.268	5.086
36)	L	Aroclor 1...	8.039	9.187	6084.8E6	969.3E6	5.194	5.369
		Sum Aroclor 1260			85560.8E6	11121.6E6	25.713	25.493
		Average Aroclor 1260					5.143	5.099
		Sum Aroclor 1262			0	0	N.D.	N.D.
		Average Aroclor 1262					0.000	0.000
		Sum Aroclor 1268			0	0	N.D.	N.D.
		Average Aroclor 1268					0.000	0.000

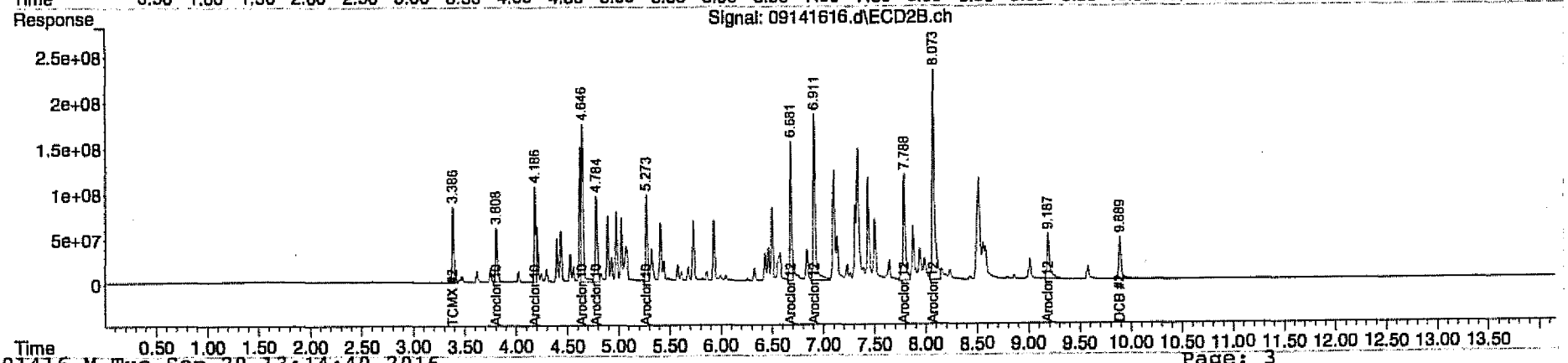
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:47 pm
Operator : EBB
Sample : PCB ICV 5.0 ug/mL
Misc : 100-8312
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:41:31 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Wed Sep 14 16:39:49 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Data Path : H:\GC14\091416PC\
Data File : 09141616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:47 pm
Operator : EBB
Sample : PCB ICV 5.0 ug/mL
Misc : 100-8312
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:41:31 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Wed Sep 14 16:39:49 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	S	TCMX	0.100	0.101	-1.0	102	0.00
2	L	Aroclor 1016	5.000	5.201	-4.0	104	0.00
3	L	Aroclor 1016 {2}	5.000	5.388	-7.8	107	0.00
4	L	Aroclor 1016 {3}	5.000	5.364	-7.3	108	0.00
5	L	Aroclor 1016 {4}	5.000	5.372	-7.4	109	0.00
6	L	Aroclor 1016 {5}	5.000	5.415	-8.3	107	0.00
32	L	Aroclor 1260	5.000	5.024	-0.5	98	0.00
33	L	Aroclor 1260 {2}	5.000	5.034	-0.7	96	0.00
34	L	Aroclor 1260 {3}	5.000	5.192	-3.8	105	0.00
35	L	Aroclor 1260 {4}	5.000	5.268	-5.4	101	0.00
36	L	Aroclor 1260 {5}	5.000	5.194	-3.9	109	0.01
47	S	DCB	0.100	0.104	-4.0	104	0.00

Signal #2

1	S	TCMX	0.100	0.102	-2.0	102	0.01
2	L	Aroclor 1016	5.000	5.217	-4.3	104	0.01
3	L	Aroclor 1016 {2}	5.000	5.458	-9.2	111	0.01
4	L	Aroclor 1016 {3}	5.000	5.406	-8.1	109	0.01
5	L	Aroclor 1016 {4}	5.000	5.425	-8.5	108	0.01
6	L	Aroclor 1016 {5}	5.000	5.323	-6.5	106	0.02
32	L	Aroclor 1260	5.000	5.008	-0.2	101	0.02
33	L	Aroclor 1260 {2}	5.000	4.954	0.9	99	0.02
34	L	Aroclor 1260 {3}	5.000	5.076	-1.5	103	0.02
35	L	Aroclor 1260 {4}	5.000	5.086	-1.7	104	0.02
36	L	Aroclor 1260 {5}	5.000	5.369	-7.4	109	0.02
47	S	DCB	0.100	0.105	-5.0	107	0.02

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	5.000	0.000	100.0#	0	-2.63#
8	L,M	Aroclor 1221 {2}	5.000	0.000	100.0#	0	-3.12#
9	L,M	Aroclor 1221 {3}	5.000	0.000	100.0#	0	-3.23#
10	L,M	Aroclor 1221 {4}	5.000	0.000	100.0#	0	-3.27#
11	L,M	Aroclor 1221 {5}	5.000	0.000	100.0#	0	-3.65#
12	L	Aroclor 1232	5.000	0.000	100.0#	0	-3.27#
13	L	Aroclor 1232 {2}	5.000	0.000	100.0#	0	-3.54#
14	L	Aroclor 1232 {3}	5.000	0.000	100.0#	0	-3.94#
15	L	Aroclor 1232 {4}	5.000	0.000	100.0#	0	-4.06#
16	L	Aroclor 1232 {5}	5.000	0.000	100.0#	0	-4.43#

Evaluate Continuing Calibration Report

Data Path : H:\GC14\091416PC\
Data File : 09141616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 3:47 pm
Operator : EBB
Sample : PCB ICV 5.0 ug/mL
Misc : 100-8312
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 14 16:41:31 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Wed Sep 14 16:39:49 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	69.268	74.730 E9	-7.9	102	0.00
2	L	Aroclor 1016	959.615	932.482 E6	2.8	104	0.00
3	L	Aroclor 1016 {2}	2.159	2.088 E9	3.3	107	0.00
4	L	Aroclor 1016 {3}	2.828	2.918 E9	-3.2	108	0.00
5	L	Aroclor 1016 {4}	1.524	1.588 E9	-4.2	109	0.00
6	L	Aroclor 1016 {5}	1.473	1.556 E9	-5.6	107	0.00
32	L	Aroclor 1260	4.401	4.362 E9	0.9	98	0.00
33	L	Aroclor 1260 {2}	3.592	3.840 E9	-6.9	96	0.00
34	L	Aroclor 1260 {3}	2.327	2.509 E9	-7.8	105	0.00
35	L	Aroclor 1260 {4}	4.706	5.184 E9	-10.2	101	0.00
36	L	Aroclor 1260 {5}	999.873	1216.958 E6	-21.7#	109	0.01
47	S	DCB	48.867	53.111 E9	-8.7	104	0.00

Signal #2

1	S	TCMX	10.652	10.149 E9	4.7	102	0.01
2	L	Aroclor 1016	166.885	147.376 E6	11.7	104	0.01
3	L	Aroclor 1016 {2}	248.674	226.022 E6	9.1	111	0.01
4	L	Aroclor 1016 {3}	420.901	421.119 E6	-0.1	109	0.01
5	L	Aroclor 1016 {4}	276.478	270.141 E6	2.3	108	0.01
6	L	Aroclor 1016 {5}	233.605	223.586 E6	4.3	106	0.02
32	L	Aroclor 1260	425.141	384.650 E6	9.5	101	0.02
33	L	Aroclor 1260 {2}	577.002	526.519 E6	8.7	99	0.02
34	L	Aroclor 1260 {3}	386.173	378.211 E6	2.1	103	0.02
35	L	Aroclor 1260 {4}	733.608	741.080 E6	-1.0	104	0.02
36	L	Aroclor 1260 {5}	187.586	193.858 E6	-3.3	109	0.02
47	S	DCB	7.630	7.471 E9	2.1	107	0.02

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	383.051	0.000 E6	100.0#	0#	-2.63#
8	L,M	Aroclor 1221 {2}	635.720	0.000 E6	100.0#	0#	-3.12#
9	L,M	Aroclor 1221 {3}	311.398	0.000 E6	100.0#	0#	-3.23#
10	L,M	Aroclor 1221 {4}	1.354	0.000 E9	100.0#	0#	-3.27#
11	L,M	Aroclor 1221 {5}	184.199	0.000 E6	100.0#	0#	-3.65#
12	L	Aroclor 1232	1.150	0.000 E9	100.0#	0#	-3.27#
13	L	Aroclor 1232 {2}	881.734	0.000 E6	100.0#	0#	-3.54#
14	L	Aroclor 1232 {3}	1.161	0.000 E9	100.0#	0#	-3.94#
15	L	Aroclor 1232 {4}	647.819	0.000 E6	100.0#	0#	-4.06#
16	L	Aroclor 1232 {5}	617.364	0.000 E6	100.0#	0#	-4.43#

Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141617.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:05 pm
Operator : EBB
Sample : 1221 ICAL 5.0 ug/mL
Misc : 1920-140-9
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 08:28:57 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Wed Sep 14 16:39:49 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
7) L,M Aroclor 1221	2.631	3.001	1915.3E6	360.4E6	4.970	4.745
8) L,M Aroclor 1...	3.123	3.622	3178.6E6	496.7E6	5.297	4.908
9) L,M Aroclor 1...	3.233	3.750	1557.0E6	287.7E6	5.479	4.932
10) L,M Aroclor 1...	3.266	3.808	6767.8E6	1051.5E6	5.238	4.853
11) L,M Aroclor 1...	3.655	4.248	921.0E6	143.3E6	6.322	5.021
Sum Aroclor 1221			14339.6E6	2339.6E6	27.306	24.459
Average Aroclor 1221					5.461	4.892
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

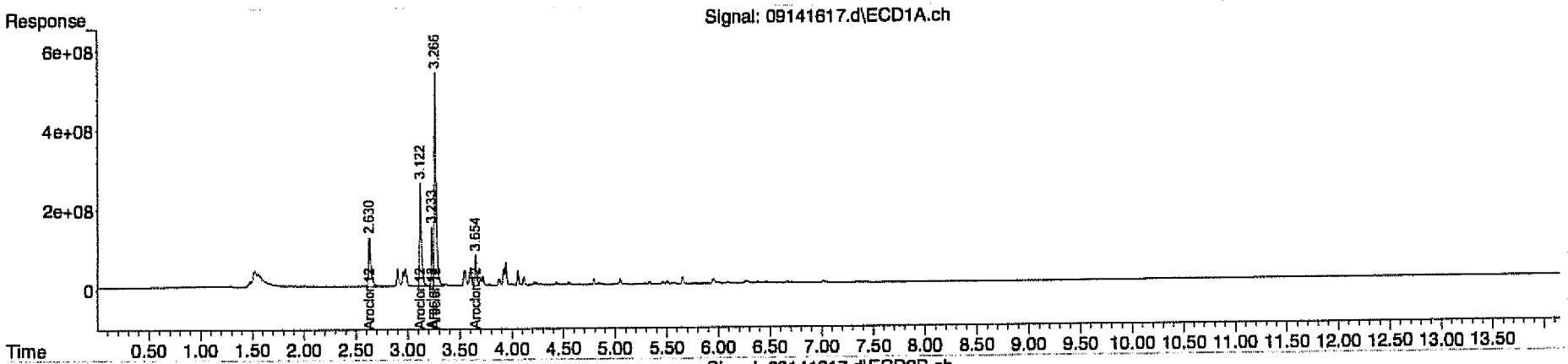
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

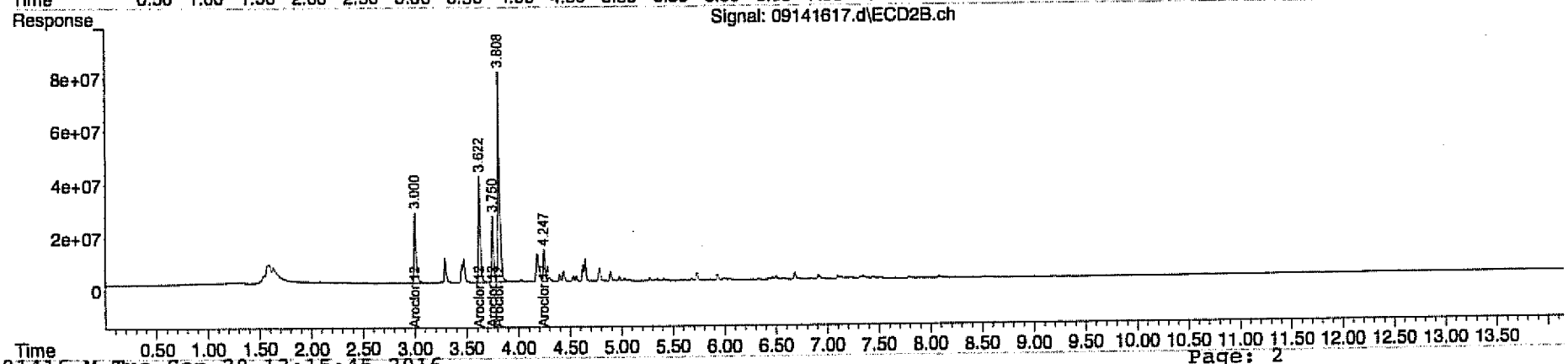
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141617.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:05 pm
Operator : EBB
Sample : 1221 ICAL 5.0 ug/mL
Misc : 1920-140-9
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 08:28:57 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Wed Sep 14 16:39:49 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141618.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:23 pm
Operator : EBB
Sample : 1232 ICAL 5.0 ug/mL
Misc : 1920-142-7
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 08:42:38 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 08:30:31 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
12) L Aroclor 1232	3.266	3.809	5750.2E6	897.9E6	5.602	5.007
13) L Aroclor 1...	3.545	4.186	4408.7E6	504.1E6	5.539	5.051
14) L Aroclor 1...	3.943	4.647	5807.5E6	838.2E6	6.142	5.570
15) L Aroclor 1...	4.060	4.785	3239.1E6	547.8E6	5.974m	5.482
16) L Aroclor 1...	4.432	5.274	3086.8E6	447.2E6	5.853	5.401
Sum Aroclor 1232			22292.3E6	3235.1E6	29.110	26.511
Average Aroclor 1232					5.822	5.302
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

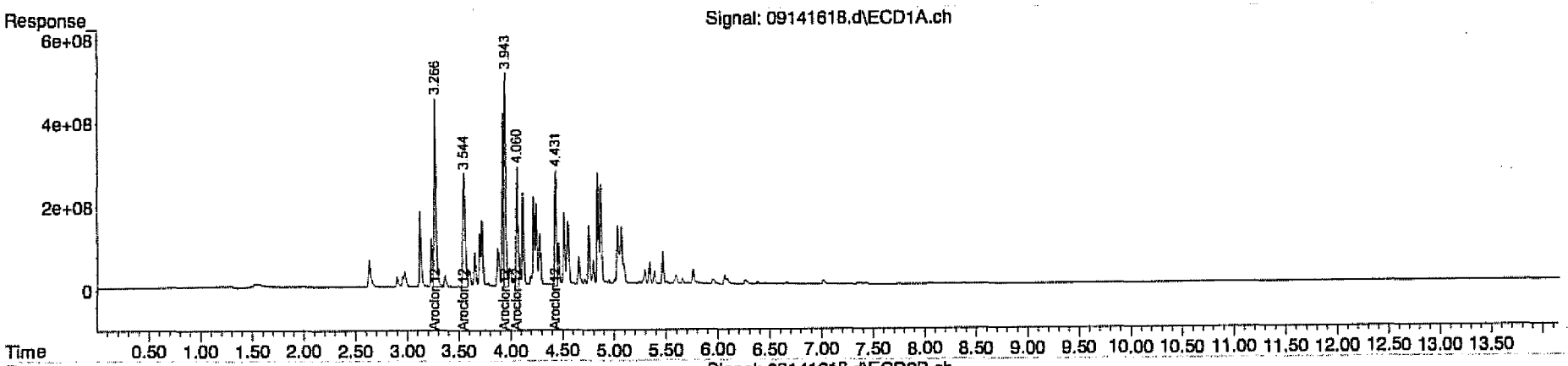
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

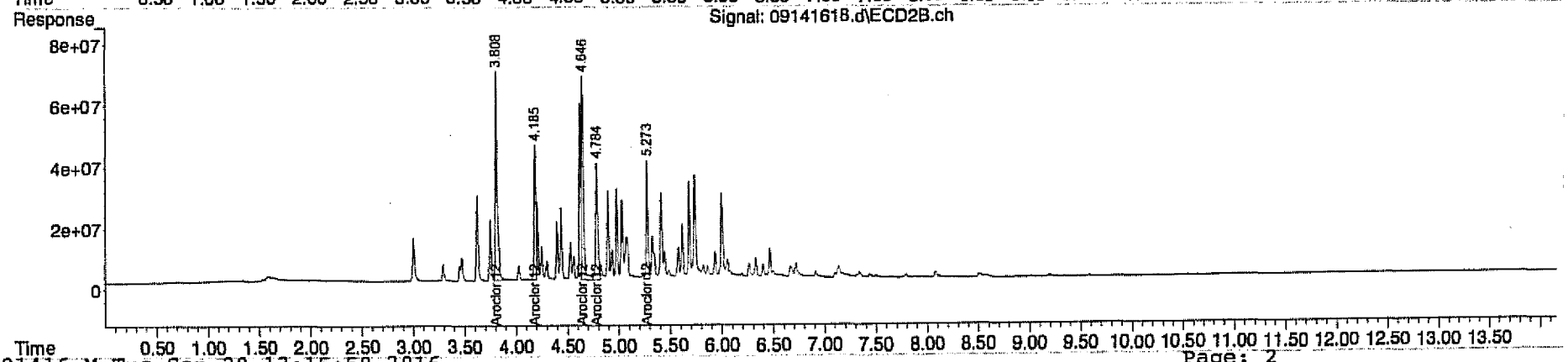
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141618.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:23 pm
Operator : EBB
Sample : 1232 ICAL 5.0 ug/mL
Misc : 1920-142-7
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 08:42:38 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 08:30:31 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141619.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:40 pm
Operator : EBB
Sample : 1242 ICAL 5.0 ug/mL
Misc : 100-8339
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 08:52:48 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 08:42:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
17) L,M Aroclor 1242	3.544	4.186	7953.4E6	861.2E6	5.309	4.924
18) L,M Aroclor 1...	3.943	4.646	10794.2E6	1592.6E6	5.970	5.443
19) L,M Aroclor 1...	4.060	4.784	6076.5E6	1033.0E6	5.990	5.417
20) L,M Aroclor 1...	4.431	5.273	6159.8E6	893.9E6	5.691	5.342
21) L,M Aroclor 1...	4.867	5.995	6172.4E6	909.7E6	6.323	6.462
Sum Aroclor 1242			37156.2E6	5290.6E6	29.282	27.589
Average Aroclor 1242					5.856	5.518
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

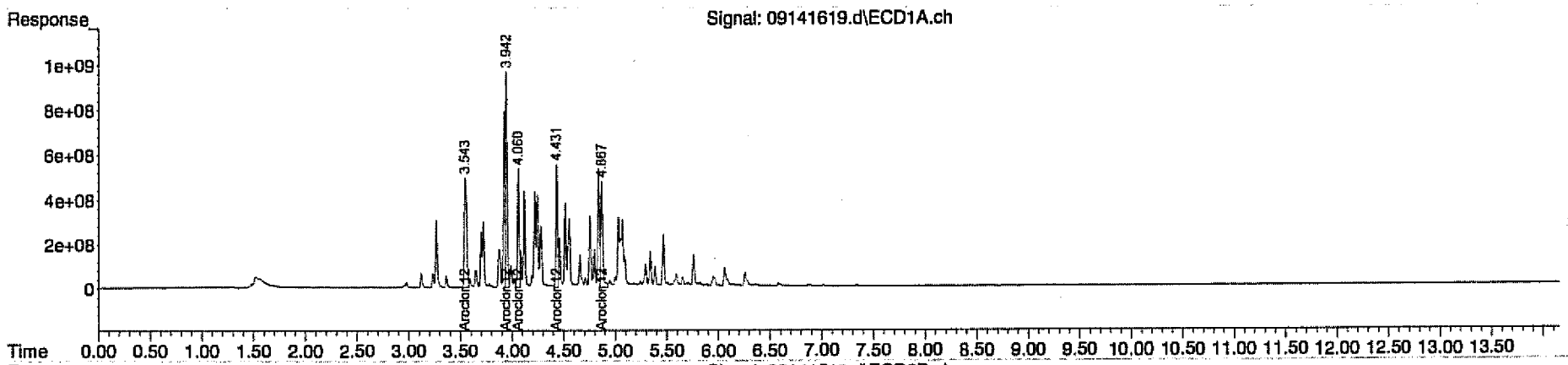
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

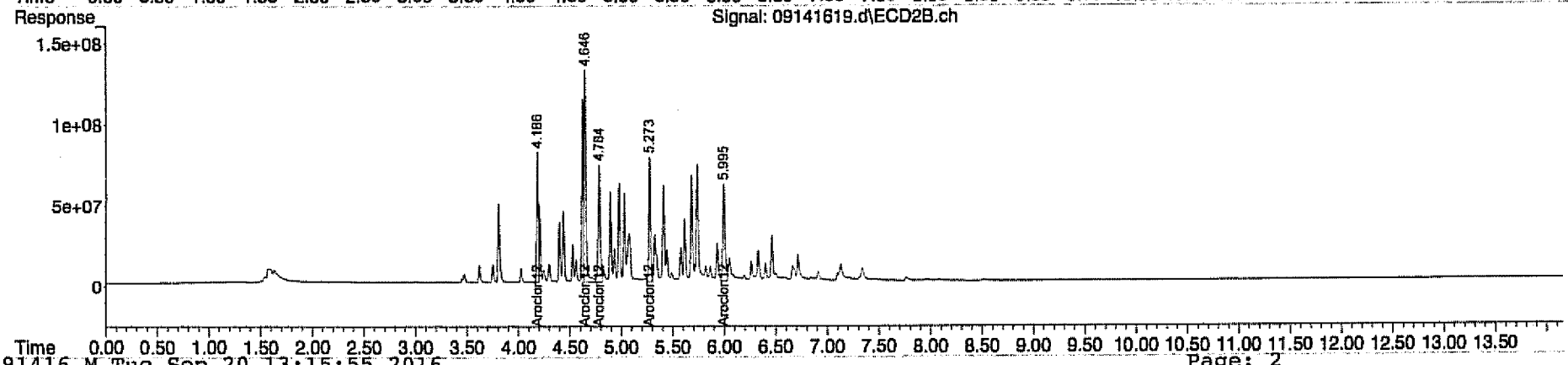
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141619.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:40 pm
Operator : EBB
Sample : 1242 ICAL 5.0 ug/mL
Misc : 100-8339
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 08:52:48 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 08:42:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141620.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:58 pm
Operator : EBB
Sample : 1248 ICAL 5.0 ug/mL
Misc : 100-8181
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:05:25 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 08:53:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
22) L Aroclor 1248	3.942	4.646	6510.5E6	979.6E6	5.918	5.452
23) L Aroclor 1...	4.431	5.274	9297.3E6	1399.8E6	5.603	6.439
24) L Aroclor 1...	4.513	5.409	6468.0E6	1204.5E6	6.056	4.513 #
25) L Aroclor 1...	4.867	5.735	9835.4E6	1856.4E6	6.204	8.309 #
26) L Aroclor 1...	5.464	5.996	6214.5E6	1521.3E6	6.357	5.856
Sum Aroclor 1248			38325.8E6	6961.5E6	30.137	30.570
Average Aroclor 1248					6.027	6.114
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

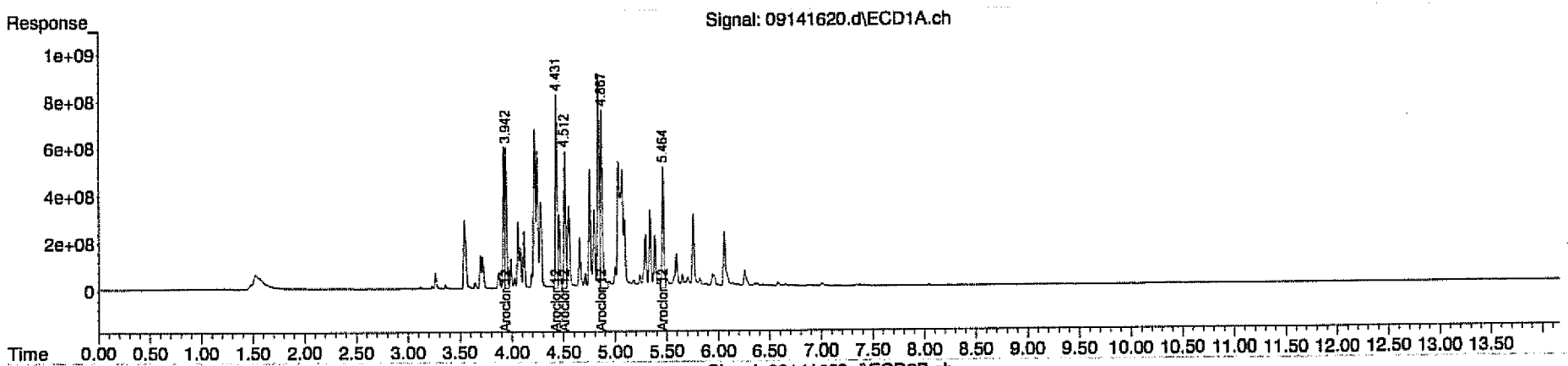
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

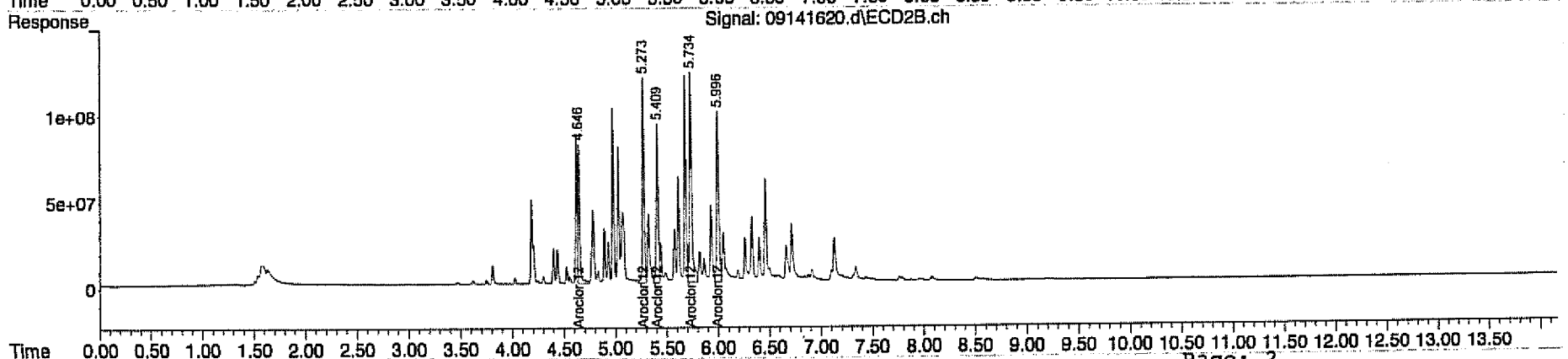
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141620.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 4:58 pm
Operator : EBB
Sample : 1248 ICAL 5.0 ug/mL
Misc : 100-8181
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:05:25 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 08:53:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 5:15 pm
Operator : EBB
Sample : 1254 ICAL 5.0 ug/mL
Misc : 100-8182
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:13:35 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:07:01 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
System Monitoring Compounds							
Target Compounds							
Sum Aroclor 1016			0	0	N.D.	N.D.	
Average Aroclor 1016					0.000	0.000	
Sum Aroclor 1221			0	0	N.D.	N.D.	
Average Aroclor 1221					0.000	0.000	
Sum Aroclor 1232			0	0	N.D.	N.D.	
Average Aroclor 1232					0.000	0.000	
Sum Aroclor 1242			0	0	N.D.	N.D.	
Average Aroclor 1242					0.000	0.000	
Sum Aroclor 1248			0	0	N.D.	N.D.	
Average Aroclor 1248					0.000	0.000	
27) L,M Aroclor 1254	4.795	5.730	9625.7E6	1719.4E6	5.829	5.461	
28) L,M Aroclor 1...	5.050	5.930	16778.1E6	1892.3E6	7.553	5.246	#
29) L,M Aroclor 1...	5.465	6.461	17168.5E6	2329.8E6	5.770	9.243	#
30) L,M Aroclor 1...	5.757	6.715	13827.2E6	1971.8E6	6.399	5.059	
31) L,M Aroclor 1...	6.259	7.337	21045.8E6	2358.3E6	8.009	6.188	
Sum Aroclor 1254			78445.3E6	10271.6E6	33.560	31.197	
Average Aroclor 1254					6.712	6.239	
Sum Aroclor 1260			0	0	N.D.	N.D.	
Average Aroclor 1260					0.000	0.000	
Sum Aroclor 1262			0	0	N.D.	N.D.	
Average Aroclor 1262					0.000	0.000	
Sum Aroclor 1268			0	0	N.D.	N.D.	
Average Aroclor 1268					0.000	0.000	

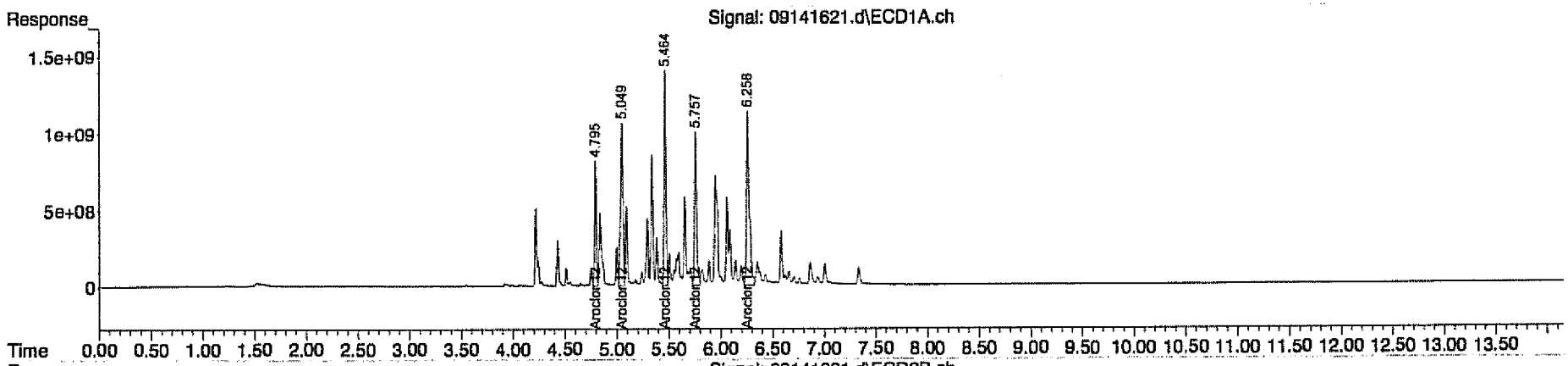
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

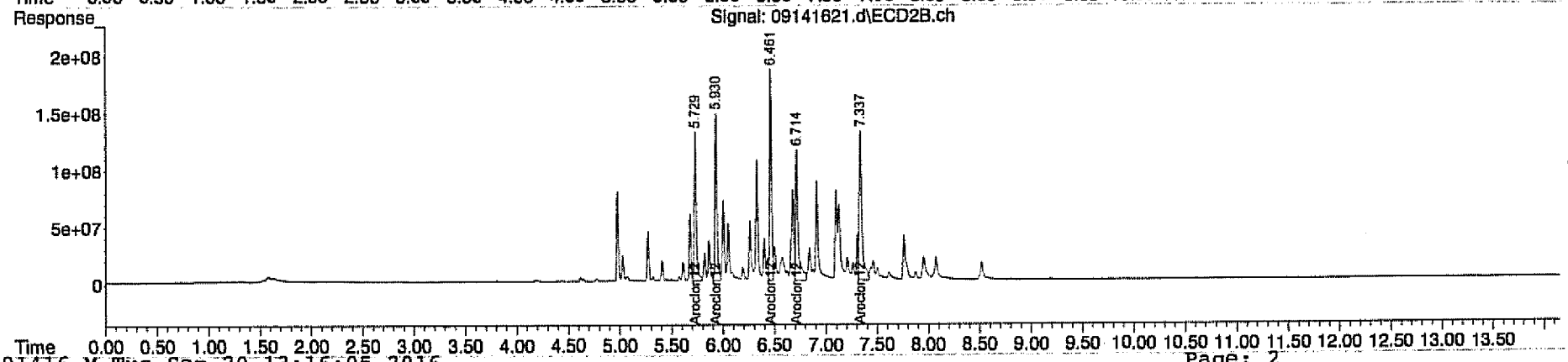
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141621.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 5:15 pm
Operator : EBB
Sample : 1254 ICAL 5.0 ug/mL
Misc : 100-8182
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:13:35 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:07:01 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141622.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 5:33 pm
Operator : EBB
Sample : 1260 ICAL 5.0 ug/mL
Misc : 1920-116-3 Pattern Match
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:14:53 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:14:20 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
32) L Aroclor 1260	5.948	6.681	20383.9E6	2041.8E6	4.689	5.323
33) L Aroclor 1...	6.258	6.912	16588.0E6	2608.0E6	4.340	4.907
34) L Aroclor 1...	6.657	7.789	14403.6E6	2049.7E6	5.963	5.505
35) L Aroclor 1...	7.004	8.073	30114.1E6	4233.6E6	6.129	5.815
36) L Aroclor 1...	8.039	9.187	7274.1E6	1176.3E6	6.183	6.523
Sum Aroclor 1260			88763.7E6	12109.4E6	27.305	28.072
Average Aroclor 1260					5.461	5.614
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

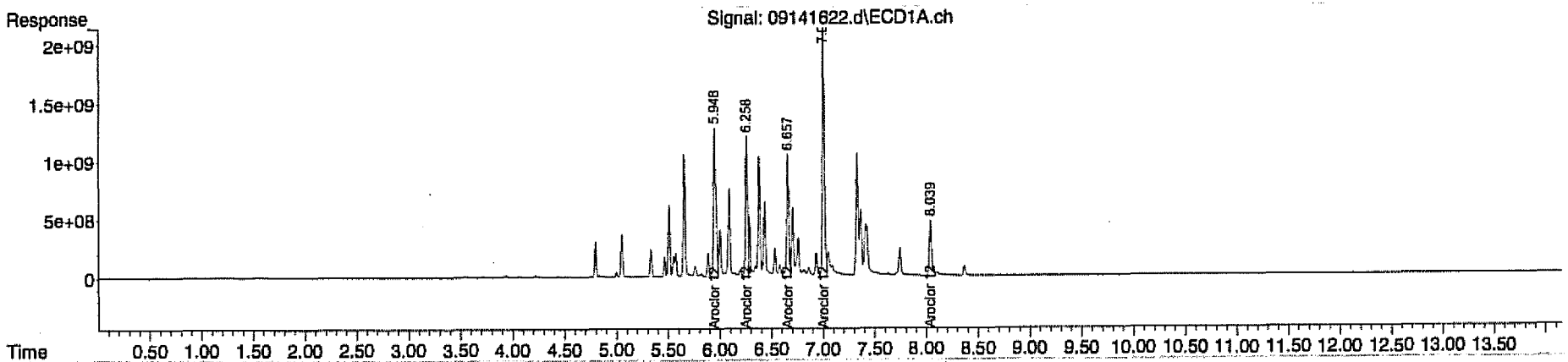
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

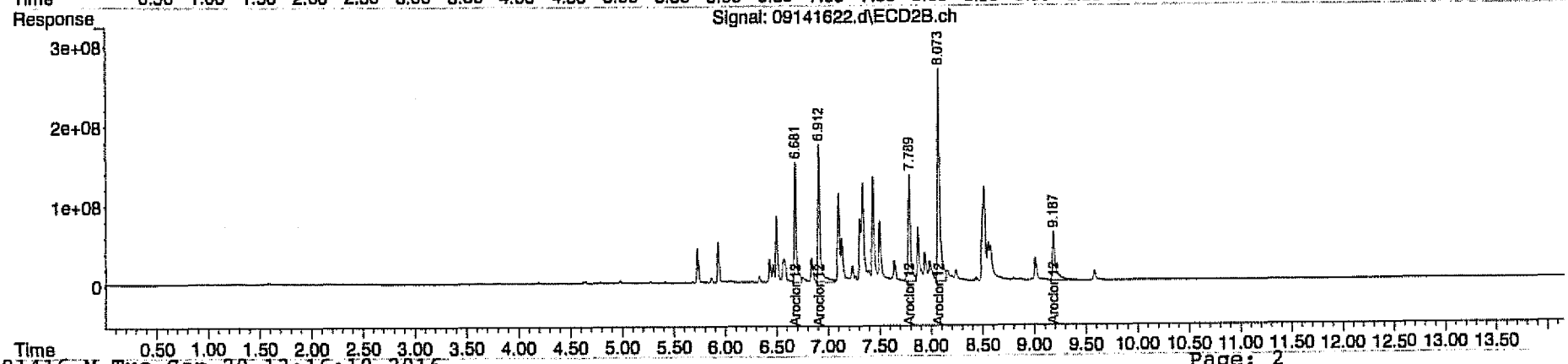
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141622.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 5:33 pm
Operator : EBB
Sample : 1260 ICAL 5.0 ug/mL
Misc : 1920-116-3 Pattern Match
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:14:53 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:14:20 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC14\091416PC\
Data File : 09141623.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 5:50 pm
Operator : EBB
Sample : 1262 ICAL 5.0 ug/mL
Misc : 1920-140-8
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:20:34 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:14:20 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
37) L,M Aroclor 1262	5.948	6.912	14938.2E6	2091.4E6	5.586	5.486
38) L,M Aroclor 1...	6.380	7.436	19304.6E6	2725.8E6	6.110	5.380
39) L,M Aroclor 1...	6.657	7.789	18018.4E6	2551.7E6	5.898	5.118
40) L,M Aroclor 1...	7.007	8.073	33927.2E6	4855.1E6	5.624	5.615
41) L,M Aroclor 1...	8.038	9.186	12033.8E6	1902.7E6	6.178	6.336
Sum Aroclor 1262			98222.2E6	14126.6E6	29.397	27.934
Average Aroclor 1262					5.879	5.587
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

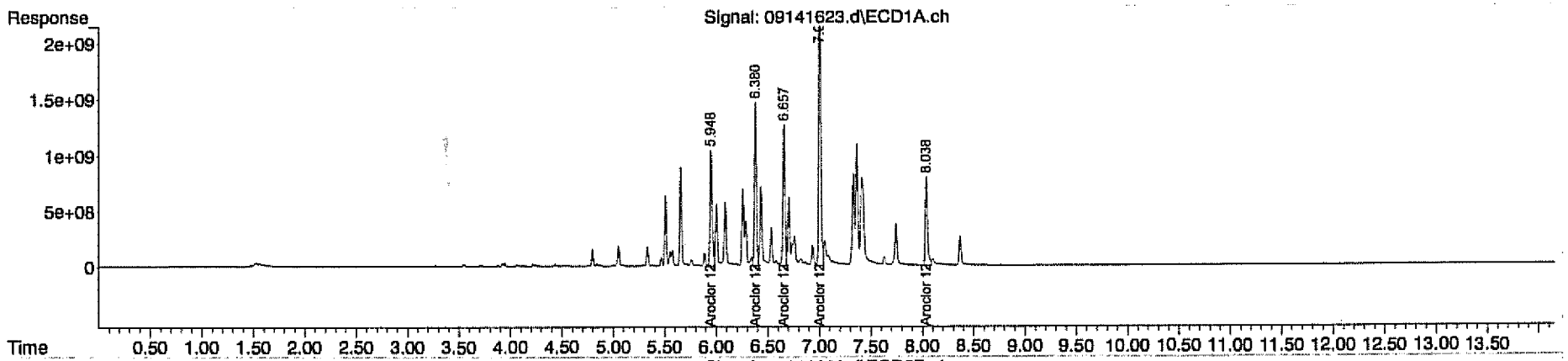
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

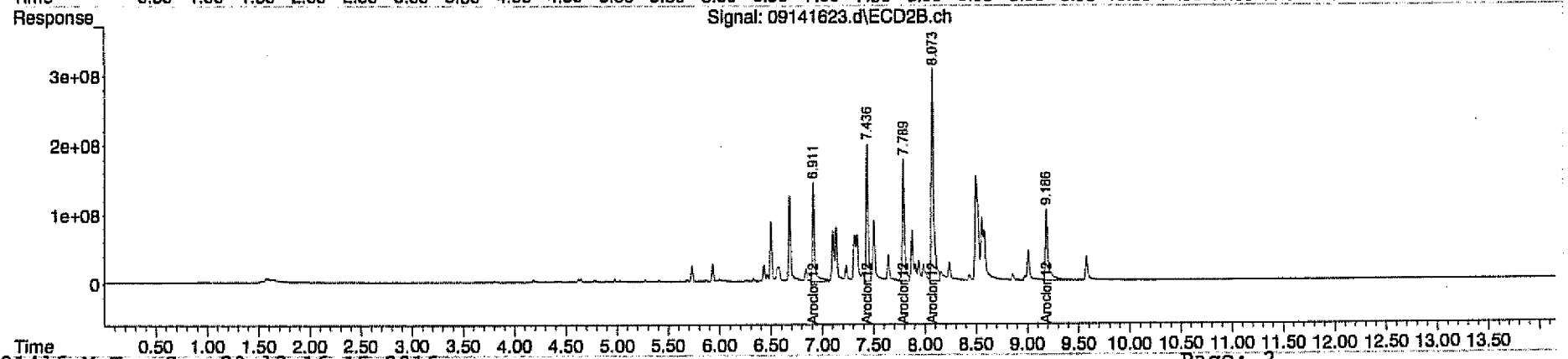
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141623.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 5:50 pm
Operator : EBB
Sample : 1262 ICAL 5.0 ug/mL
Misc : 1920-140-8
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:20:34 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:14:20 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141624.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 6:08 pm
Operator : EBB
Sample : 1268 ICAL 5.0 ug/mL
Misc : 1920-120-1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:24:32 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:21:14 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
42) L Aroclor 1268	7.367	8.499	35131.6E6	5511.9E6	5.501	5.139
43) L Aroclor 1...	7.412	8.555	46055.2E6	6603.9E6	5.603	5.205
44) L Aroclor 1...	7.630	8.860	29878.5E6	4051.2E6	5.807	5.180
45) L Aroclor 1...	7.724	9.185	12058.1E6	2069.9E6	6.002	5.595
46) L Aroclor 1...	8.035	9.577	15670.5E6	11861.0E6	6.312	5.209
Sum Aroclor 1268			138793.8E6	30098.0E6	29.225	26.327
Average Aroclor 1268					5.845	5.265

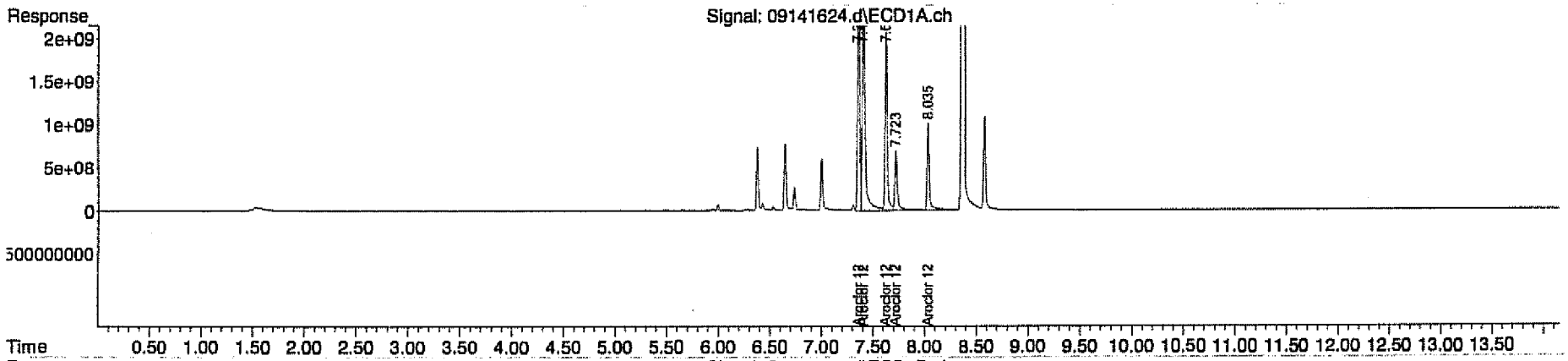
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

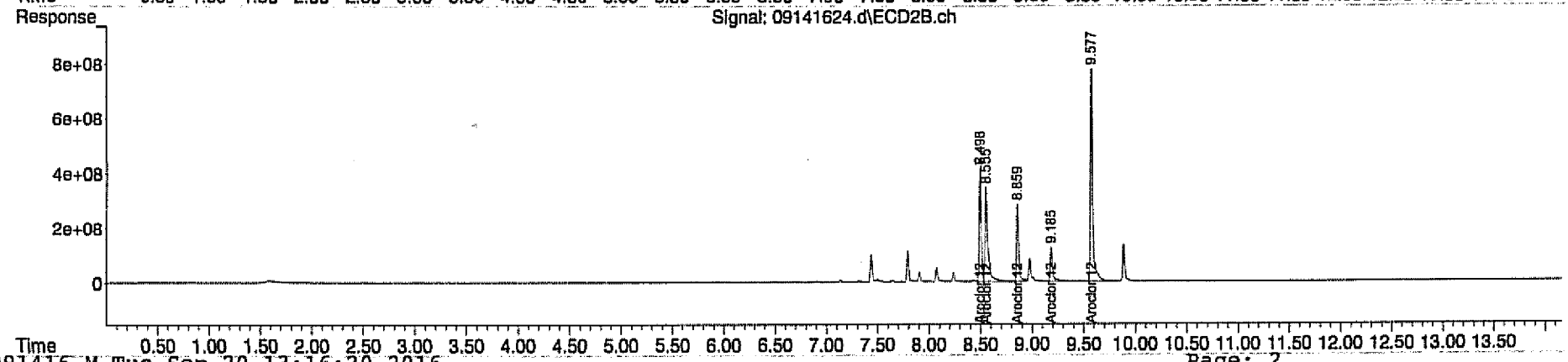
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141624.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 6:08 pm
Operator : EBB
Sample : 1268 ICAL 5.0 ug/mL
Misc : 1920-120-1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:24:32 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:21:14 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141625.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 6:25 pm
Operator : EBB
Sample : Chlordane 3.0 ug/mL
Misc : 100-7760 Pattern Match
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:25:41 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:24:59 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

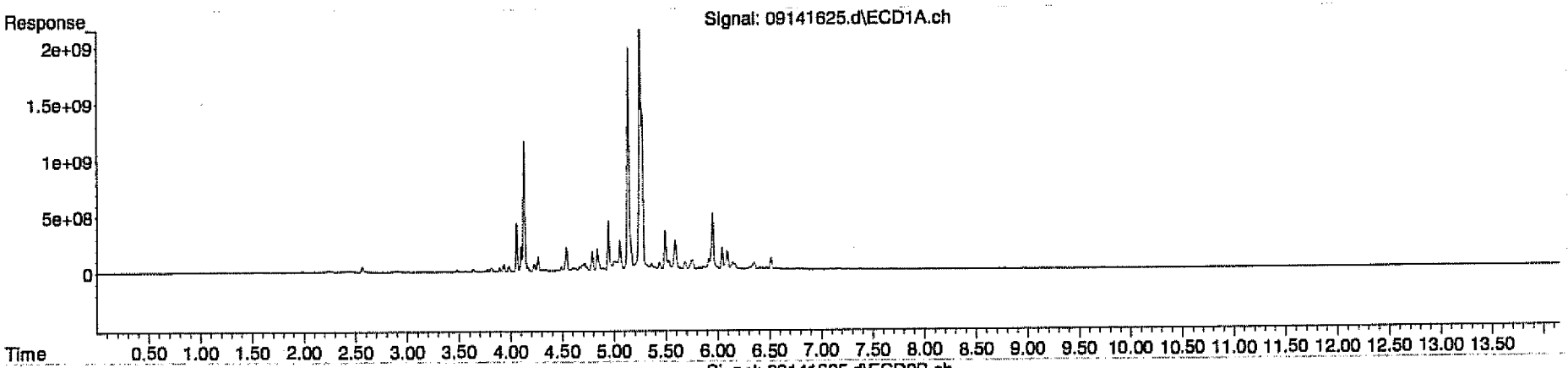
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

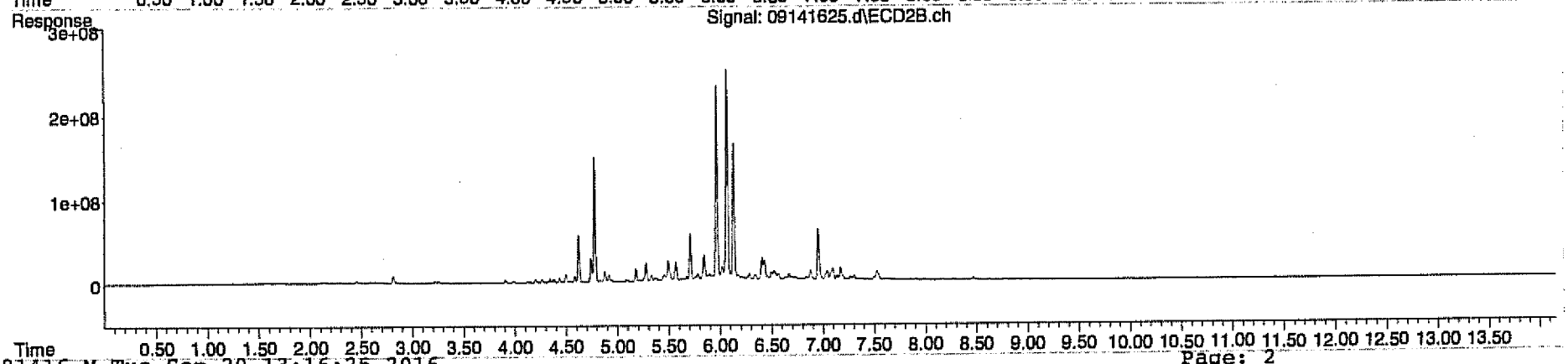
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141625.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 6:25 pm
Operator : EBB
Sample : Chlordane 3.0 ug/mL
Misc : 100-7760 Pattern Match
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:25:41 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:24:59 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC14\091416PC\
Data File : 09141626.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 6:43 pm
Operator : EBB
Sample : Toxaphene 5.0 ug/mL
Misc : 100-7761 Pattern Match
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:26:12 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:24:59 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
Target Compounds						
Sum Aroclor 1016			0	0	N.D.	N.D.
Average Aroclor 1016					0.000	0.000
Sum Aroclor 1221			0	0	N.D.	N.D.
Average Aroclor 1221					0.000	0.000
Sum Aroclor 1232			0	0	N.D.	N.D.
Average Aroclor 1232					0.000	0.000
Sum Aroclor 1242			0	0	N.D.	N.D.
Average Aroclor 1242					0.000	0.000
Sum Aroclor 1248			0	0	N.D.	N.D.
Average Aroclor 1248					0.000	0.000
Sum Aroclor 1254			0	0	N.D.	N.D.
Average Aroclor 1254					0.000	0.000
Sum Aroclor 1260			0	0	N.D.	N.D.
Average Aroclor 1260					0.000	0.000
Sum Aroclor 1262			0	0	N.D.	N.D.
Average Aroclor 1262					0.000	0.000
Sum Aroclor 1268			0	0	N.D.	N.D.
Average Aroclor 1268					0.000	0.000

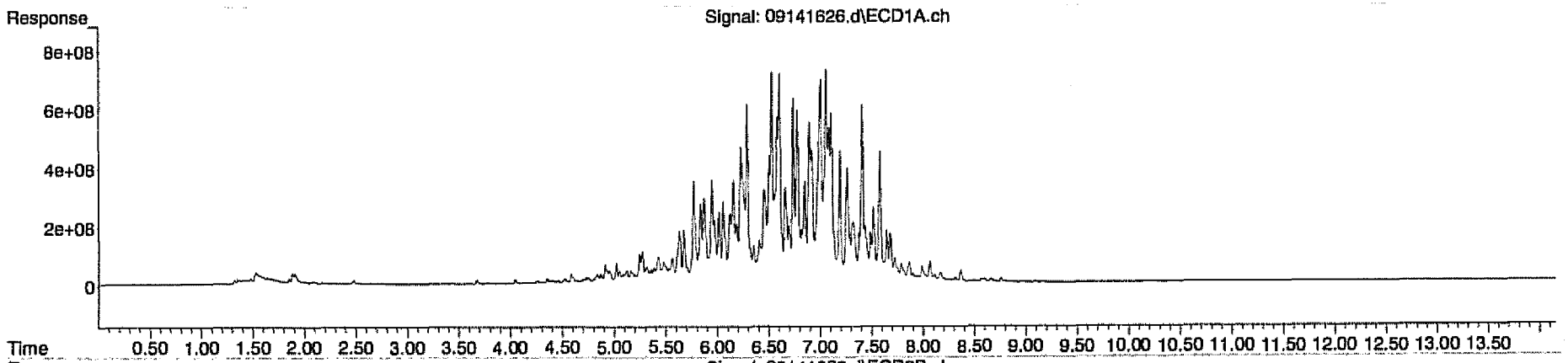
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

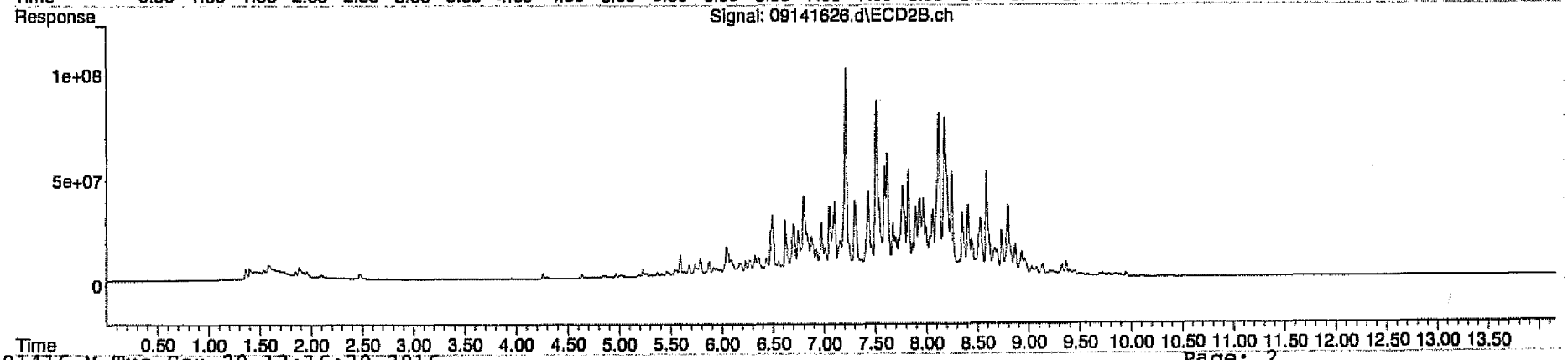
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\091416PC\
Data File : 09141626.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Sep 2016 6:43 pm
Operator : EBB
Sample : Toxaphene 5.0 ug/mL
Misc : 100-7761 Pattern Match
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 15 09:26:12 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Thu Sep 15 09:24:59 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2016 Sep 15 1056 Sequence Log

Starting sequence Wed Sep 14 11:21:50 2016

Instrument Name: GC14
Sequence File: C:\msdchem\1\sequence\091416PC.s
Comment: PCB's by GCECD
Operator: EBB
Data Path: C:\MSDCHEM\1\DATA\091416PC\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	09141601	PCB2	CONDITIONING SHOT
2)	Sample	1	09141602	PCB2	CONDITIONING SHOT
3)	Sample	1	09141603	PCB2	CONDITIONING SHOT
4)	Sample	1	09141604	PCB2	CONDITIONING SHOT
5)	Sample	2	09141605	PCB2	BLANK
6)	Sample	2	09141606	PCB2	BLANK
7)	Sample	11	09141607	PCB2	PCB ICAL 0.1 ug/mL
8)	Sample	12	09141608	PCB2	PCB ICAL 0.2 ug/mL
9)	Sample	13	09141609	PCB2	PCB ICAL 0.3 ug/mL
10)	Sample	14	09141610	PCB2	PCB ICAL 0.5 ug/mL
11)	Sample	15	09141611	PCB2	PCB ICAL 1.0 ug/mL
12)	Sample	16	09141612	PCB2	PCB ICAL 2.0 ug/mL
13)	Sample	17	09141613	PCB2	PCB ICAL 3.0 ug/mL
14)	Sample	18	09141614	PCB2	PCB ICAL 5.0 ug/mL
15)	Sample	19	09141615	PCB2	PCB ICAL 10.0 ug/mL
16)	Sample	20	09141616	PCB2	PCB ICV 5.0 ug/mL

Sequence paused Wed Sep 14 16:02:13 2016

C:\MSDCHEM\1\DATA\091416PC\2016 Sep 14 1121 Quality Log.LOG
C:\MSDCHEM\1\DATA\091416PC\2016 Sep 14 1121 Sequence Log .LOG

Resuming sequence Wed Sep 14 16:02:37 2016

Instrument Name: GC14
Sequence File: C:\msdchem\1\sequence\091416PC.s
Comment: PCB's by GCECD
Operator: EBB
Data Path: C:\MSDCHEM\1\DATA\091416PC\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
17)	Sample	21	09141617	PCB2	1221 ICAL 5.0 ug/mL
18)	Sample	22	09141618	PCB2	1232 ICAL 5.0 ug/mL
19)	Sample	23	09141619	PCB2	1242 ICAL 5.0 ug/mL
20)	Sample	24	09141620	PCB2	1248 ICAL 5.0 ug/mL
21)	Sample	25	09141621	PCB2	1254 ICAL 5.0 ug/mL
22)	Sample	26	09141622	PCB2	1260 ICAL 5.0 ug/mL
23)	Sample	27	09141623	PCB2	1262 ICAL 5.0 ug/mL
24)	Sample	28	09141624	PCB2	1268 ICAL 5.0 ug/mL
25)	Sample	29	09141625	PCB2	Chlordane 3.0 ug/mL
26)	Sample	30	09141626	PCB2	Toxaphene 5.0 ug/mL
27)	Sample	3	09141627	PCB2	PCB CCV 5.0 ug/mL
28)	Sample	51	09141628	PCB2	PBLKS1-91357
29)	Sample	52	09141629	PCB2	PLCSS1-91357
30)	Sample	53	09141630	PCB2	1609605-01A
31)	Sample	54	09141631	PCB2	1609605-01A MS
32)	Sample	55	09141632	PCB2	1609605-01A MSD
33)	Sample	2	09141633	PCB2	BLANK
34)	Sample	31	09141634	PCB2	PBLKS1-91381

Evaluate Continuing Calibration Report

Data Path : H:\GC14\092116PC\
Data File : 09211604.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 3:58 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 16:59:28 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	S	TCMX	0.100	0.111	-11.0	113	0.00
2	L	Aroclor 1016	5.000	5.815	-16.3#	117	0.00
3	L	Aroclor 1016 {2}	5.000	5.676	-13.5	113	0.00
4	L	Aroclor 1016 {3}	5.000	5.707	-14.1	115	0.00
5	L	Aroclor 1016 {4}	5.000	5.658	-13.2	115	0.00
6	L	Aroclor 1016 {5}	5.000	5.715	-14.3	113	0.00
32	L	Aroclor 1260	5.000	5.787	-15.7#	113	0.00
33	L	Aroclor 1260 {2}	5.000	5.897	-17.9#	112	0.00
34	L	Aroclor 1260 {3}	5.000	5.816	-16.3#	118	0.00
35	L	Aroclor 1260 {4}	5.000	6.069	-21.4#	116	0.00
36	L	Aroclor 1260 {5}	5.000	5.941	-18.8#	125	0.00
47	S	DCB	0.100	0.117	-17.0#	116	0.00

Signal #2

1	S	TCMX	0.100	0.106	-6.0	106	0.00
2	L	Aroclor 1016	5.000	5.428	-8.6	109	0.00
3	L	Aroclor 1016 {2}	5.000	5.239	-4.8	106	0.00
4	L	Aroclor 1016 {3}	5.000	5.379	-7.6	108	0.00
5	L	Aroclor 1016 {4}	5.000	5.307	-6.1	106	0.00
6	L	Aroclor 1016 {5}	5.000	5.345	-6.9	106	0.00
32	L	Aroclor 1260	5.000	5.251	-5.0	106	0.00
33	L	Aroclor 1260 {2}	5.000	5.198	-4.0	104	0.00
34	L	Aroclor 1260 {3}	5.000	5.303	-6.1	108	0.00
35	L	Aroclor 1260 {4}	5.000	5.241	-4.8	107	0.00
36	L	Aroclor 1260 {5}	5.000	5.375	-7.5	109	0.00
47	S	DCB	0.100	0.101	-1.0	103	0.00

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	5.000	0.000	100.0#	0	-2.63#
8	L,M	Aroclor 1221 {2}	5.000	0.000	100.0#	0	-3.12#
9	L,M	Aroclor 1221 {3}	5.000	0.000	100.0#	0	-3.23#
10	L,M	Aroclor 1221 {4}	5.000	0.000	100.0#	0	-3.27#
11	L,M	Aroclor 1221 {5}	5.000	0.000	100.0#	0	-3.65#
12	L	Aroclor 1232	5.000	0.000	100.0#	0	-3.27#
13	L	Aroclor 1232 {2}	5.000	0.000	100.0#	0	-3.54#
14	L	Aroclor 1232 {3}	5.000	0.000	100.0#	0	-3.94#
15	L	Aroclor 1232 {4}	5.000	0.000	100.0#	0	-4.06#
16	L	Aroclor 1232 {5}	5.000	0.000	100.0#	0	-4.43#

Evaluate Continuing Calibration Report

Data Path : H:\GC14\092116PC\
Data File : 09211604.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 3:58 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 16:59:28 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	69.268	82.119 E9	-18.6#	113	0.00
2	L	Aroclor 1016	959.615	1040.475 E6	-8.4	117	0.00
3	L	Aroclor 1016 {2}	2.159	2.197 E9	-1.8	113	0.00
4	L	Aroclor 1016 {3}	2.828	3.102 E9	-9.7	115	0.00
5	L	Aroclor 1016 {4}	1.524	1.672 E9	-9.7	115	0.00
6	L	Aroclor 1016 {5}	1.473	1.641 E9	-11.4	113	0.00
32	L	Aroclor 1260	4.401	5.011 E9	-13.9	113	0.00
33	L	Aroclor 1260 {2}	3.592	4.490 E9	-25.0#	112	0.00
34	L	Aroclor 1260 {3}	2.327	2.810 E9	-20.8#	118	0.00
35	L	Aroclor 1260 {4}	4.706	5.964 E9	-26.7#	116	0.00
36	L	Aroclor 1260 {5}	999.873	1396.697 E6	-39.7#	125	0.00
47	S	DCB	48.867	59.651 E9	-22.1#	116	0.00

Signal #2

1	S	TCMX	10.652	10.558 E9	0.9	106	0.00
2	L	Aroclor 1016	166.885	153.158 E6	8.2	109	0.00
3	L	Aroclor 1016 {2}	248.674	217.204 E6	12.7	106	0.00
4	L	Aroclor 1016 {3}	420.901	419.004 E6	0.5	108	0.00
5	L	Aroclor 1016 {4}	276.478	264.404 E6	4.4	106	0.00
6	L	Aroclor 1016 {5}	233.605	224.502 E6	3.9	106	0.00
32	L	Aroclor 1260	425.141	402.927 E6	5.2	106	0.00
33	L	Aroclor 1260 {2}	577.002	551.813 E6	4.4	104	0.00
34	L	Aroclor 1260 {3}	386.173	394.996 E6	-2.3	108	0.00
35	L	Aroclor 1260 {4}	733.608	763.509 E6	-4.1	107	0.00
36	L	Aroclor 1260 {5}	187.586	194.076 E6	-3.5	109	0.00
47	S	DCB	7.630	7.177 E9	5.9	103	0.00

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	383.051	0.000 E6	100.0#	0#	-2.63#
8	L,M	Aroclor 1221 {2}	635.720	0.000 E6	100.0#	0#	-3.12#
9	L,M	Aroclor 1221 {3}	311.398	0.000 E6	100.0#	0#	-3.23#
10	L,M	Aroclor 1221 {4}	1.354	0.000 E9	100.0#	0#	-3.27#
11	L,M	Aroclor 1221 {5}	184.199	0.000 E6	100.0#	0#	-3.65#
12	L	Aroclor 1232	1.150	0.000 E9	100.0#	0#	-3.27#
13	L	Aroclor 1232 {2}	881.734	0.000 E6	100.0#	0#	-3.54#
14	L	Aroclor 1232 {3}	1.161	0.000 E9	100.0#	0#	-3.94#
15	L	Aroclor 1232 {4}	647.819	0.000 E6	100.0#	0#	-4.06#
16	L	Aroclor 1232 {5}	617.364	0.000 E6	100.0#	0#	-4.43#

Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211604.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 3:58 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 16:59:28 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

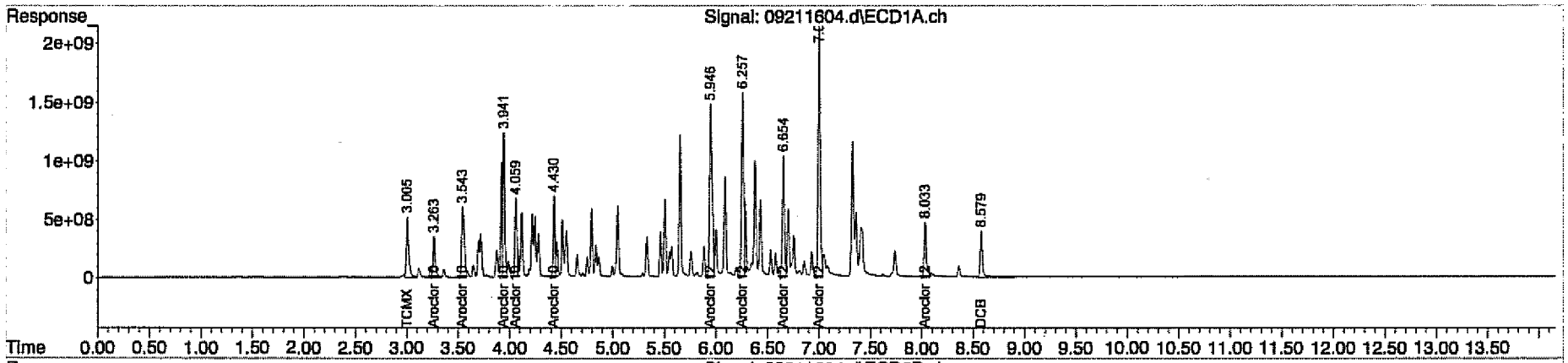
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.006	3.371	8211.9E6	1055.8E6	0.111	0.106
47) S	DCB	8.579	9.863	5965.1E6	717.7E6	0.117	0.101
	Target Compounds						
2) L	Aroclor 1016	3.264	3.790	5202.4E6	765.8E6	5.815	5.428
3) L	Aroclor 1...	3.543	4.167	10983.5E6	1086.0E6	5.676m	5.239
4) L	Aroclor 1...	3.942	4.626	15510.2E6	2095.0E6	5.707	5.379
5) L	Aroclor 1...	4.059	4.764	8360.8E6	1322.0E6	5.658m	5.307
6) L	Aroclor 1...	4.431	5.252	8202.7E6	1122.5E6	5.715	5.345
	Sum Aroclor 1016			48259.6E6	6391.4E6	28.570	26.698
	Average Aroclor 1016					5.714	5.340
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.947	6.656	25054.6E6	2014.6E6	5.787	5.251
33) L	Aroclor 1...	6.257	6.888	22452.3E6	2759.1E6	5.897	5.198
34) L	Aroclor 1...	6.654	7.763	14050.5E6	1975.0E6	5.816	5.303m
35) L	Aroclor 1...	7.002	8.048	29821.0E6	3817.5E6	6.069	5.241
36) L	Aroclor 1...	8.034	9.161	6983.5E6	970.4E6	5.941	5.375
	Sum Aroclor 1260			98361.8E6	11536.6E6	29.511	26.368
	Average Aroclor 1260					5.902	5.274
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

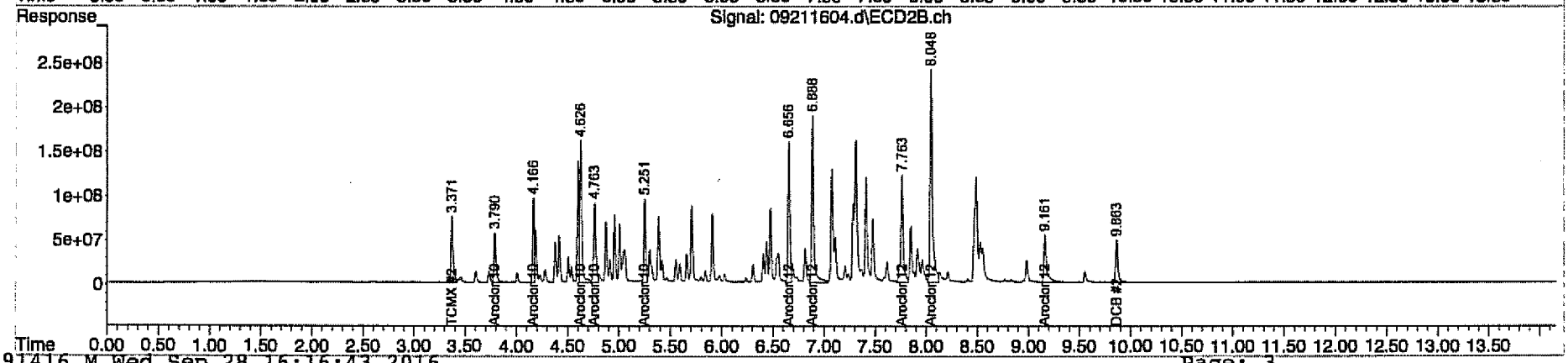
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211604.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 3:58 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 16:59:28 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Data Path : H:\GC14\092116PC\
Data File : 09211616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:30 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:36:59 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	S	TCMX	0.100	0.108	-8.0	110	0.00
2	L	Aroclor 1016	5.000	5.753	-15.1#	115	0.00
3	L	Aroclor 1016 {2}	5.000	5.613	-12.3	112	0.00
4	L	Aroclor 1016 {3}	5.000	5.658	-13.2	114	0.00
5	L	Aroclor 1016 {4}	5.000	5.659	-13.2	115	0.00
6	L	Aroclor 1016 {5}	5.000	5.721	-14.4	113	0.00
32	L	Aroclor 1260	5.000	5.806	-16.1#	114	0.00
33	L	Aroclor 1260 {2}	5.000	5.891	-17.8#	112	0.00
34	L	Aroclor 1260 {3}	5.000	5.830	-16.6#	118	0.00
35	L	Aroclor 1260 {4}	5.000	5.853	-17.1#	112	0.00
36	L	Aroclor 1260 {5}	5.000	5.998	-20.0#	126	0.00
47	S	DCB	0.100	0.117	-17.0#	117	0.00

Signal #2

1	S	TCMX	0.100	0.104	-4.0	104	0.00
2	L	Aroclor 1016	5.000	5.365	-7.3	107	0.00
3	L	Aroclor 1016 {2}	5.000	5.206	-4.1	106	0.00
4	L	Aroclor 1016 {3}	5.000	5.335	-6.7	107	0.00
5	L	Aroclor 1016 {4}	5.000	5.291	-5.8	105	0.00
6	L	Aroclor 1016 {5}	5.000	5.351	-7.0	106	0.00
32	L	Aroclor 1260	5.000	5.265	-5.3	106	0.00
33	L	Aroclor 1260 {2}	5.000	5.275	-5.5	105	-0.01
34	L	Aroclor 1260 {3}	5.000	5.397	-7.9	109	-0.01
35	L	Aroclor 1260 {4}	5.000	5.206	-4.1	106	-0.01
36	L	Aroclor 1260 {5}	5.000	5.426	-8.5	110	-0.01
47	S	DCB	0.100	0.106	-6.0	108	-0.01

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	5.000	0.000	100.0#	0	-2.63#
8	L,M	Aroclor 1221 {2}	5.000	0.000	100.0#	0	-3.12#
9	L,M	Aroclor 1221 {3}	5.000	0.000	100.0#	0	-3.23#
10	L,M	Aroclor 1221 {4}	5.000	0.000	100.0#	0	-3.27#
11	L,M	Aroclor 1221 {5}	5.000	0.000	100.0#	0	-3.65#
12	L	Aroclor 1232	5.000	0.000	100.0#	0	-3.27#
13	L	Aroclor 1232 {2}	5.000	0.000	100.0#	0	-3.54#
14	L	Aroclor 1232 {3}	5.000	0.000	100.0#	0	-3.94#
15	L	Aroclor 1232 {4}	5.000	0.000	100.0#	0	-4.06#
16	L	Aroclor 1232 {5}	5.000	0.000	100.0#	0	-4.43#

Evaluate Continuing Calibration Report

Data Path : H:\GC14\092116PC\
Data File : 09211616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:30 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:36:59 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	69.268	80.161 E9	-15.7#	110	0.00
2	L	Aroclor 1016	959.615	1029.720 E6	-7.3	115	0.00
3	L	Aroclor 1016 {2}	2.159	2.173 E9	-0.6	112	0.00
4	L	Aroclor 1016 {3}	2.828	3.076 E9	-8.8	114	0.00
5	L	Aroclor 1016 {4}	1.524	1.672 E9	-9.7	115	0.00
6	L	Aroclor 1016 {5}	1.473	1.642 E9	-11.5	113	0.00
32	L	Aroclor 1260	4.401	5.027 E9	-14.2	114	0.00
33	L	Aroclor 1260 {2}	3.592	4.486 E9	-24.9#	112	0.00
34	L	Aroclor 1260 {3}	2.327	2.817 E9	-21.1#	118	0.00
35	L	Aroclor 1260 {4}	4.706	5.754 E9	-22.3#	112	0.00
36	L	Aroclor 1260 {5}	999.873	1410.385 E6	-41.1#	126	0.00
47	S	DCB	48.867	59.800 E9	-22.4#	117	0.00

Signal #2

1	S	TCMX	10.652	10.368 E9	2.7	104	0.00
2	L	Aroclor 1016	166.885	151.419 E6	9.3	107	0.00
3	L	Aroclor 1016 {2}	248.674	215.882 E6	13.2	106	0.00
4	L	Aroclor 1016 {3}	420.901	415.656 E6	1.2	107	0.00
5	L	Aroclor 1016 {4}	276.478	263.628 E6	4.6	105	0.00
6	L	Aroclor 1016 {5}	233.605	224.732 E6	3.8	106	0.00
32	L	Aroclor 1260	425.141	403.965 E6	5.0	106	0.00
33	L	Aroclor 1260 {2}	577.002	559.836 E6	3.0	105	-0.01
34	L	Aroclor 1260 {3}	386.173	401.962 E6	-4.1	109	-0.01
35	L	Aroclor 1260 {4}	733.608	758.487 E6	-3.4	106	-0.01
36	L	Aroclor 1260 {5}	187.586	195.899 E6	-4.4	110	-0.01
47	S	DCB	7.630	7.537 E9	1.2	108	-0.01

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	383.051	0.000 E6	100.0#	0#	-2.63#
8	L,M	Aroclor 1221 {2}	635.720	0.000 E6	100.0#	0#	-3.12#
9	L,M	Aroclor 1221 {3}	311.398	0.000 E6	100.0#	0#	-3.23#
10	L,M	Aroclor 1221 {4}	1.354	0.000 E9	100.0#	0#	-3.27#
11	L,M	Aroclor 1221 {5}	184.199	0.000 E6	100.0#	0#	-3.65#
12	L	Aroclor 1232	1.150	0.000 E9	100.0#	0#	-3.27#
13	L	Aroclor 1232 {2}	881.734	0.000 E6	100.0#	0#	-3.54#
14	L	Aroclor 1232 {3}	1.161	0.000 E9	100.0#	0#	-3.94#
15	L	Aroclor 1232 {4}	647.819	0.000 E6	100.0#	0#	-4.06#
16	L	Aroclor 1232 {5}	617.364	0.000 E6	100.0#	0#	-4.43#

Data Path : H:\GC14\092116PC\
Data File : 09211616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:30 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:36:59 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

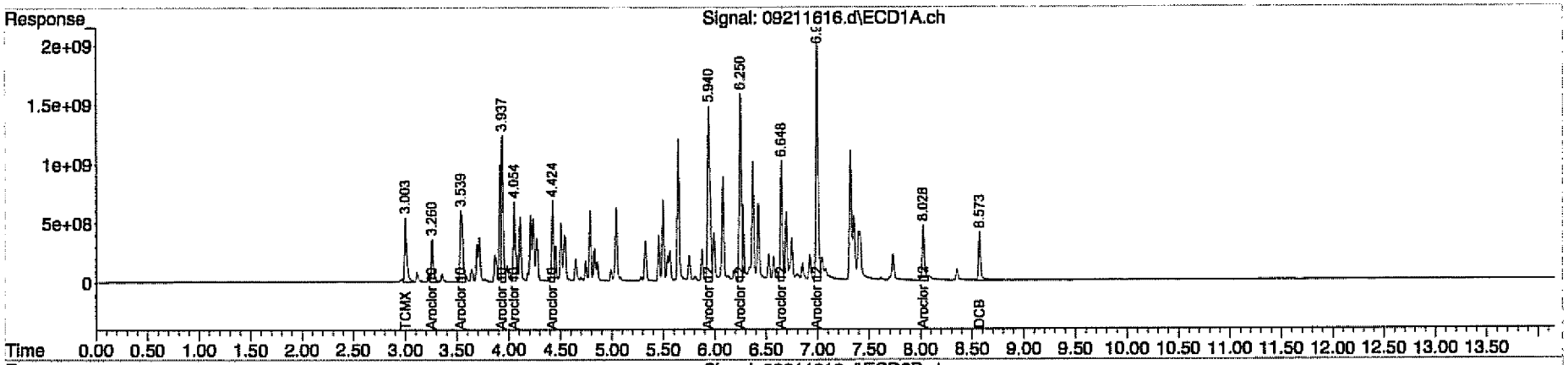
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.003	3.369	8016.1E6	1036.8E6	0.108	0.104
47) S	DCB	8.573	9.858	5980.0E6	753.7E6	0.117m	0.106
	Target Compounds						
2) L	Aroclor 1016	3.260	3.788	5148.6E6	757.1E6	5.753	5.365
3) L	Aroclor 1...	3.539	4.165	10865.0E6	1079.4E6	5.613m	5.206
4) L	Aroclor 1...	3.937	4.624	15379.9E6	2078.3E6	5.658	5.335
5) L	Aroclor 1...	4.054	4.761	8361.2E6	1318.1E6	5.659m	5.291
6) L	Aroclor 1...	4.425	5.249	8211.2E6	1123.7E6	5.721	5.351
	Sum Aroclor 1016			47965.9E6	6356.6E6	28.404	26.548
	Average Aroclor 1016					5.681	5.310
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.940	6.653	25135.7E6	2019.8E6	5.806	5.265
33) L	Aroclor 1...	6.250	6.884	22430.2E6	2799.2E6	5.891	5.275
34) L	Aroclor 1...	6.648	7.759	14083.3E6	2009.8E6	5.830	5.397m
35) L	Aroclor 1...	6.995	8.044	28767.6E6	3792.4E6	5.853	5.206
36) L	Aroclor 1...	8.028	9.157	7051.9E6	979.5E6	5.998	5.426
	Sum Aroclor 1260			97468.7E6	11600.7E6	29.378	26.569
	Average Aroclor 1260					5.876	5.314
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

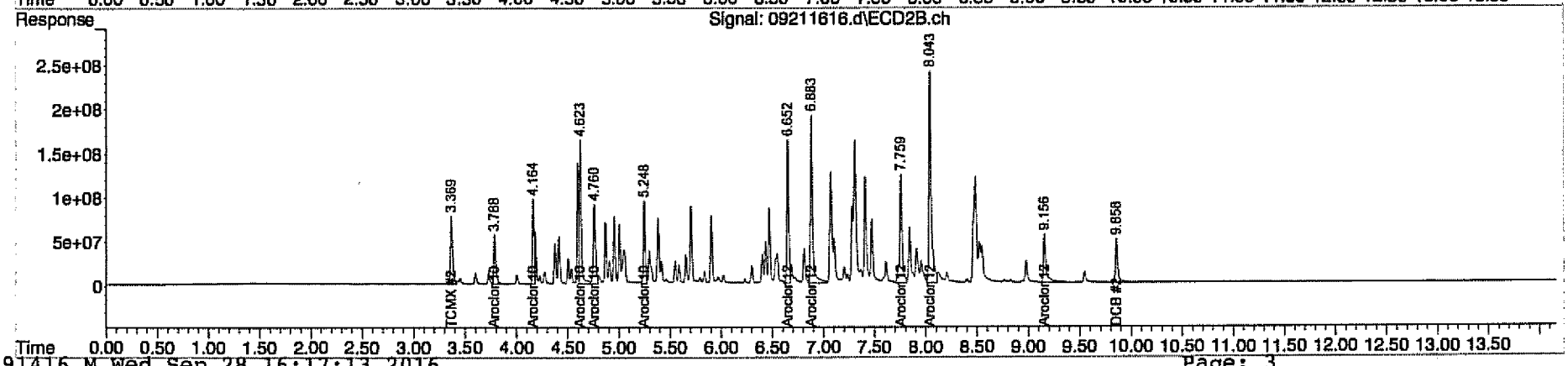
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211616.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:30 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:36:59 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Data Path : H:\GC14\092116PC\
Data File : 09211617.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:47 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:37:54 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	S	TCMX	0.100	0.109	-9.0	110	0.00
2	L	Aroclor 1016	5.000	5.743	-14.9	115	0.00
3	L	Aroclor 1016 {2}	5.000	5.615	-12.3	112	0.00
4	L	Aroclor 1016 {3}	5.000	5.587	-11.7	113	0.00
5	L	Aroclor 1016 {4}	5.000	5.479	-9.6	111	0.00
6	L	Aroclor 1016 {5}	5.000	5.652	-13.0	112	0.00
32	L	Aroclor 1260	5.000	5.765	-15.3#	113	0.00
33	L	Aroclor 1260 {2}	5.000	5.859	-17.2#	111	0.00
34	L	Aroclor 1260 {3}	5.000	5.822	-16.4#	118	0.00
35	L	Aroclor 1260 {4}	5.000	6.055	-21.1#	116	0.00
36	L	Aroclor 1260 {5}	5.000	5.990	-19.8#	126	0.00
47	S	DCB	0.100	0.121	-21.0#	121	0.00

Signal #2

1	S	TCMX	0.100	0.105	-5.0	106	0.00
2	L	Aroclor 1016	5.000	5.392	-7.8	108	0.00
3	L	Aroclor 1016 {2}	5.000	5.236	-4.7	106	0.00
4	L	Aroclor 1016 {3}	5.000	5.337	-6.7	107	0.00
5	L	Aroclor 1016 {4}	5.000	5.325	-6.5	106	0.00
6	L	Aroclor 1016 {5}	5.000	5.358	-7.2	106	0.00
32	L	Aroclor 1260	5.000	5.312	-6.2	107	0.00
33	L	Aroclor 1260 {2}	5.000	5.299	-6.0	106	0.00
34	L	Aroclor 1260 {3}	5.000	5.408	-8.2	110	-0.01
35	L	Aroclor 1260 {4}	5.000	5.232	-4.6	107	0.00
36	L	Aroclor 1260 {5}	5.000	5.570	-11.4	113	-0.01
47	S	DCB	0.100	0.105	-5.0	107	0.00

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	5.000	0.000	100.0#	0	-2.63#
8	L,M	Aroclor 1221 {2}	5.000	0.000	100.0#	0	-3.12#
9	L,M	Aroclor 1221 {3}	5.000	0.000	100.0#	0	-3.23#
10	L,M	Aroclor 1221 {4}	5.000	0.000	100.0#	0	-3.27#
11	L,M	Aroclor 1221 {5}	5.000	0.000	100.0#	0	-3.65#
12	L	Aroclor 1232	5.000	0.000	100.0#	0	-3.27#
13	L	Aroclor 1232 {2}	5.000	0.000	100.0#	0	-3.54#
14	L	Aroclor 1232 {3}	5.000	0.000	100.0#	0	-3.94#
15	L	Aroclor 1232 {4}	5.000	0.000	100.0#	0	-4.06#
16	L	Aroclor 1232 {5}	5.000	0.000	100.0#	0	-4.43#

Data Path : H:\GC14\092116PC\
Data File : 09211617.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:47 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:37:54 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	69.268	80.438 E9	-16.1#	110	0.00
2	L	Aroclor 1016	959.615	1027.824 E6	-7.1	115	0.00
3	L	Aroclor 1016 {2}	2.159	2.174 E9	-0.7	112	0.00
4	L	Aroclor 1016 {3}	2.828	3.038 E9	-7.4	113	0.00
5	L	Aroclor 1016 {4}	1.524	1.620 E9	-6.3	111	0.00
6	L	Aroclor 1016 {5}	1.473	1.623 E9	-10.2	112	0.00
32	L	Aroclor 1260	4.401	4.993 E9	-13.5	113	0.00
33	L	Aroclor 1260 {2}	3.592	4.462 E9	-24.2#	111	0.00
34	L	Aroclor 1260 {3}	2.327	2.813 E9	-20.9#	118	0.00
35	L	Aroclor 1260 {4}	4.706	5.951 E9	-26.5#	116	0.00
36	L	Aroclor 1260 {5}	999.873	1408.320 E6	-40.8#	126	0.00
47	S	DCB	48.867	62.088 E9	-27.1#	121	0.00

Signal #2

1	S	TCMX	10.652	10.495 E9	1.5	106	0.00
2	L	Aroclor 1016	166.885	152.172 E6	8.8	108	0.00
3	L	Aroclor 1016 {2}	248.674	217.098 E6	12.7	106	0.00
4	L	Aroclor 1016 {3}	420.901	415.824 E6	1.2	107	0.00
5	L	Aroclor 1016 {4}	276.478	265.253 E6	4.1	106	0.00
6	L	Aroclor 1016 {5}	233.605	225.025 E6	3.7	106	0.00
32	L	Aroclor 1260	425.141	407.469 E6	4.2	107	0.00
33	L	Aroclor 1260 {2}	577.002	562.344 E6	2.5	106	0.00
34	L	Aroclor 1260 {3}	386.173	402.753 E6	-4.3	110	-0.01
35	L	Aroclor 1260 {4}	733.608	762.142 E6	-3.9	107	0.00
36	L	Aroclor 1260 {5}	187.586	201.092 E6	-7.2	113	-0.01
47	S	DCB	7.630	7.506 E9	1.6	107	0.00

Evaluate Continuing Calibration Report - Not Founds

7	L,M	Aroclor 1221	383.051	0.000 E6	100.0#	0#	-2.63#
8	L,M	Aroclor 1221 {2}	635.720	0.000 E6	100.0#	0#	-3.12#
9	L,M	Aroclor 1221 {3}	311.398	0.000 E6	100.0#	0#	-3.23#
10	L,M	Aroclor 1221 {4}	1.354	0.000 E9	100.0#	0#	-3.27#
11	L,M	Aroclor 1221 {5}	184.199	0.000 E6	100.0#	0#	-3.65#
12	L	Aroclor 1232	1.150	0.000 E9	100.0#	0#	-3.27#
13	L	Aroclor 1232 {2}	881.734	0.000 E6	100.0#	0#	-3.54#
14	L	Aroclor 1232 {3}	1.161	0.000 E9	100.0#	0#	-3.94#
15	L	Aroclor 1232 {4}	647.819	0.000 E6	100.0#	0#	-4.06#
16	L	Aroclor 1232 {5}	617.364	0.000 E6	100.0#	0#	-4.43#

Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211617.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:47 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:37:54 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

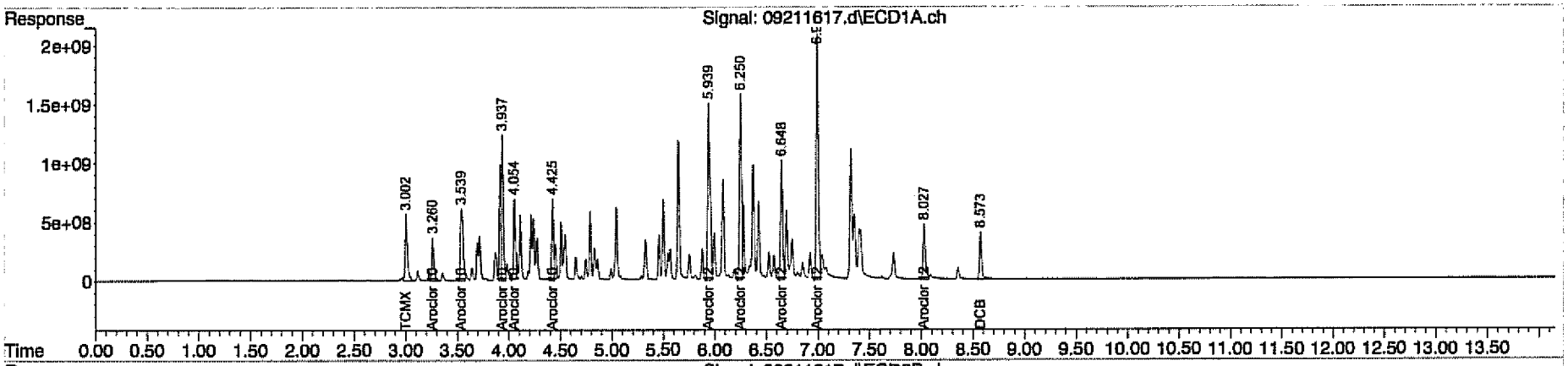
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.002	3.369	8043.8E6	1049.5E6	0.109	0.105
47) S	DCB	8.573	9.859	6208.8E6	750.6E6	0.121	0.105
	Target Compounds						
2) L	Aroclor 1016	3.260	3.788	5139.1E6	760.9E6	5.743	5.392
3) L	Aroclor 1...	3.539	4.165	10868.4E6	1085.5E6	5.615m	5.236
4) L	Aroclor 1...	3.937	4.624	15189.9E6	2079.1E6	5.587	5.337
5) L	Aroclor 1...	4.054	4.761	8099.3E6	1326.3E6	5.479m	5.325
6) L	Aroclor 1...	4.426	5.249	8114.0E6	1125.1E6	5.652	5.358
	Sum Aroclor 1016			47410.7E6	6376.9E6	28.076	26.649
	Average Aroclor 1016					5.615	5.330
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.940	6.653	24963.5E6	2037.3E6	5.765	5.312
33) L	Aroclor 1...	6.251	6.884	22307.9E6	2811.7E6	5.859	5.299
34) L	Aroclor 1...	6.648	7.760	14063.1E6	2013.8E6	5.822	5.408m
35) L	Aroclor 1...	6.996	8.045	29753.2E6	3810.7E6	6.055	5.232
36) L	Aroclor 1...	8.028	9.158	7041.6E6	1005.5E6	5.990	5.570
	Sum Aroclor 1260			98129.3E6	11679.0E6	29.491	26.820
	Average Aroclor 1260					5.898	5.364
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

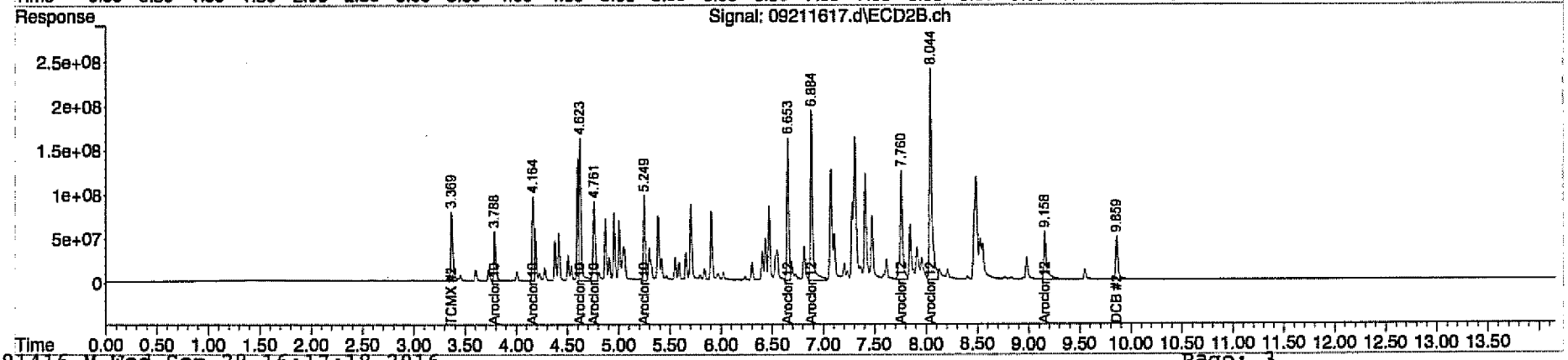
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211617.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 7:47 pm
Operator : EBB
Sample : PCB CCV 5.0 ug/mL
Misc : 100-8250
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:37:54 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211605.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 4:15 pm
Operator : EBB
Sample : PBLKW1-91634
Misc : GC-14 91634/91635 AQ
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 17:00:19 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.004	3.370	5165.6E6	705.0E6	0.070	0.070
47) S	DCB	8.575	9.861	4204.9E6	521.4E6	0.082	0.073
	Target Compounds						
	Sum Aroclor 1016			0	0	N.D.	N.D.
	Average Aroclor 1016					0.000	0.000
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
	Sum Aroclor 1260			0	0	N.D.	N.D.
	Average Aroclor 1260					0.000	0.000
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

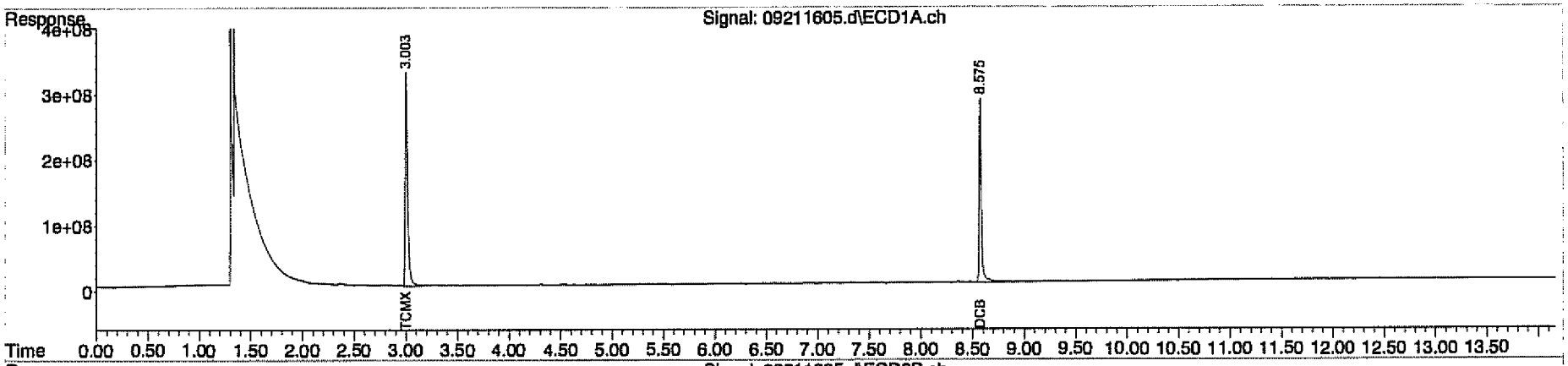
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

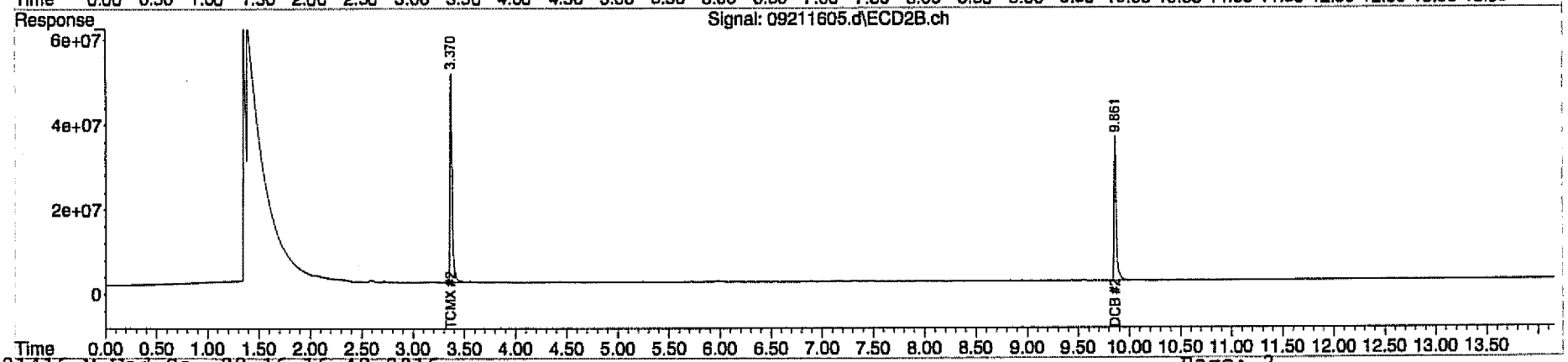
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211605.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 4:15 pm
Operator : EBB
Sample : PBLKW1-91634
Misc : GC-14 91634/91635 AQ
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 17:00:19 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211606.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 4:33 pm
Operator : EBB
Sample : PLCSW1-91634
Misc : GC-14 91634/91635 AQ
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 17:01:20 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

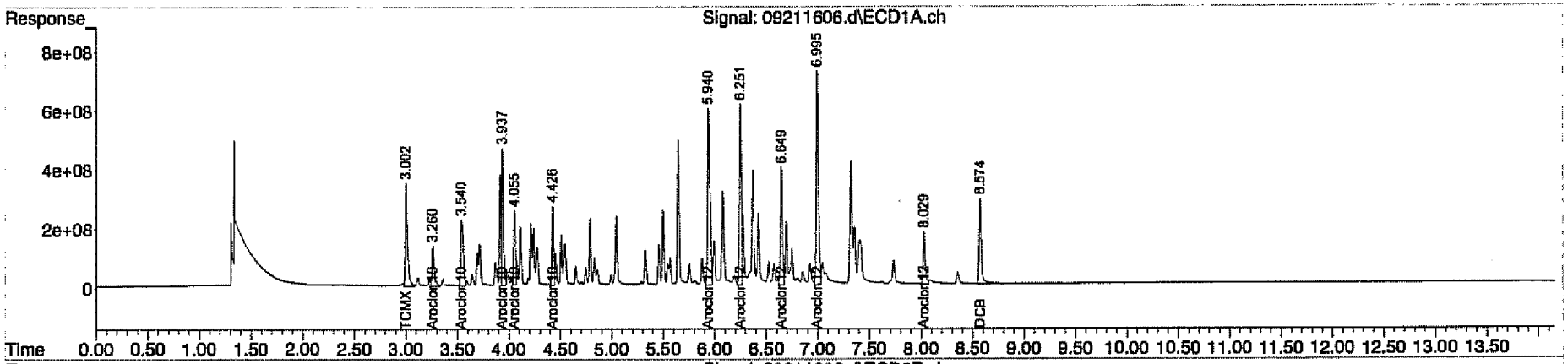
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.002	3.370	5104.0E6	671.1E6	0.069	0.067
47) S	DCB	8.573	9.860	4319.1E6	523.4E6	0.085	0.073
	Target Compounds						
2) L	Aroclor 1016	3.260	3.789	1957.0E6	281.5E6	2.128	1.893
3) L	Aroclor 1...	3.540	4.165	3947.4E6	395.6E6	1.946m	1.804
4) L	Aroclor 1...	3.937	4.624	5631.0E6	750.0E6	2.023	1.862
5) L	Aroclor 1...	4.055	4.762	2972.0E6	482.0E6	1.967m	1.854
6) L	Aroclor 1...	4.426	5.250	3001.7E6	413.9E6	2.034	1.890
	Sum Aroclor 1016			17509.1E6	2323.2E6	10.097	9.303
	Average Aroclor 1016					2.019	1.861
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.941	6.654	9764.9E6	767.3E6	2.195	1.939
33) L	Aroclor 1...	6.251	6.885	8466.5E6	1073.1E6	2.183	1.949
34) L	Aroclor 1...	6.649	7.761	5277.8E6	756.8E6	2.172	2.005
35) L	Aroclor 1...	6.996	8.046	10537.4E6	1446.3E6	2.111	1.970
36) L	Aroclor 1...	8.029	9.159	2491.5E6	365.5E6	2.208	2.004
	Sum Aroclor 1260			36538.0E6	4409.0E6	10.869	9.867
	Average Aroclor 1260					2.174	1.973
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

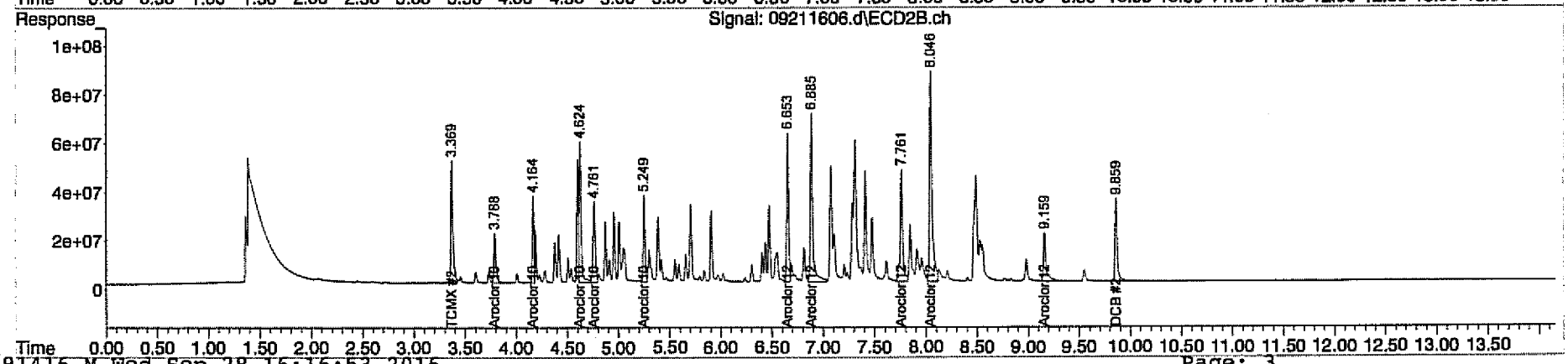
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211606.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 4:33 pm
Operator : EBB
Sample : PLCSW1-91634
Misc : GC-14 91634/91635 AQ
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 21 17:01:20 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211610.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 5:44 pm
Operator : EBB
Sample : 1609826-01A MS
Misc : GC-14 91634/91635 AQ
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:31:38 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

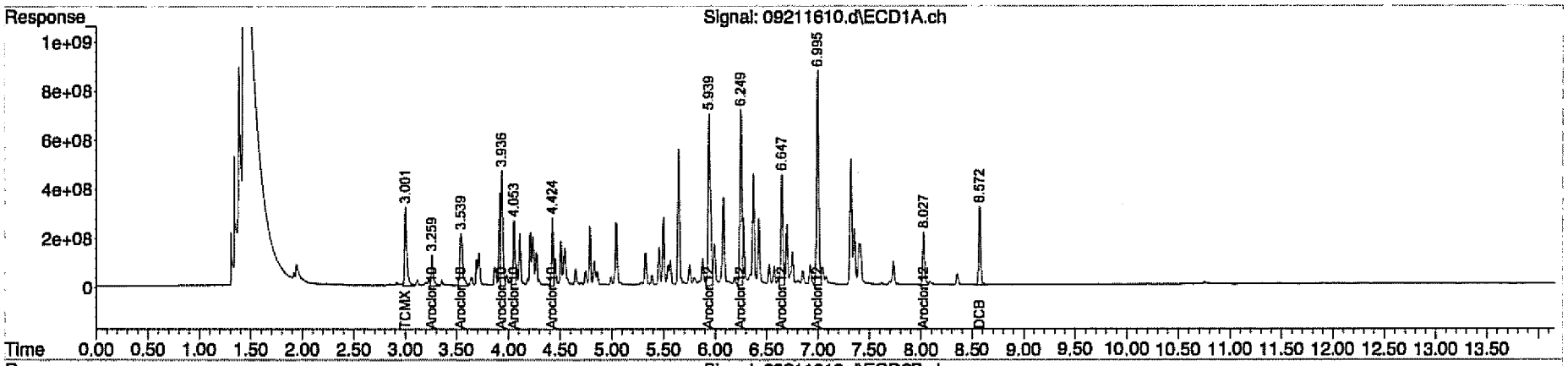
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	3.002	3.370	4700.3E6	622.4E6	0.064	0.062
47) S	DCB	8.573	9.858	4209.9E6	537.6E6	0.082	0.075
	Target Compounds						
2) L	Aroclor 1016	3.260	3.789	1798.3E6	256.5E6	1.948	1.711
3) L	Aroclor 1...	3.539	4.165	4003.3E6	383.1E6	1.976	1.742
4) L	Aroclor 1...	3.936	4.624	5608.5E6	747.2E6	2.014	1.855
5) L	Aroclor 1...	4.053	4.761	3040.6E6	501.5E6	2.014m	1.934
6) L	Aroclor 1...	4.425	5.250	3103.5E6	433.4E6	2.106	1.985
	Sum Aroclor 1016			17554.1E6	2321.8E6	10.057	9.226
	Average Aroclor 1016					2.011	1.845
	Sum Aroclor 1221			0	0	N.D.	N.D.
	Average Aroclor 1221					0.000	0.000
	Sum Aroclor 1232			0	0	N.D.	N.D.
	Average Aroclor 1232					0.000	0.000
	Sum Aroclor 1242			0	0	N.D.	N.D.
	Average Aroclor 1242					0.000	0.000
	Sum Aroclor 1248			0	0	N.D.	N.D.
	Average Aroclor 1248					0.000	0.000
	Sum Aroclor 1254			0	0	N.D.	N.D.
	Average Aroclor 1254					0.000	0.000
32) L	Aroclor 1260	5.940	6.654	11298.5E6	884.8E6	2.555	2.251
33) L	Aroclor 1...	6.249	6.884	9884.2E6	1265.0E6	2.560m	2.318
34) L	Aroclor 1...	6.648	7.760	5986.7E6	881.7E6	2.466	2.343m
35) L	Aroclor 1...	6.995	8.045	12208.4E6	1672.3E6	2.454	2.282
36) L	Aroclor 1...	8.027	9.157	2949.2E6	370.3E6	2.588	2.031
	Sum Aroclor 1260			42327.1E6	5074.1E6	12.623	11.225
	Average Aroclor 1260					2.525	2.245
	Sum Aroclor 1262			0	0	N.D.	N.D.
	Average Aroclor 1262					0.000	0.000
	Sum Aroclor 1268			0	0	N.D.	N.D.
	Average Aroclor 1268					0.000	0.000

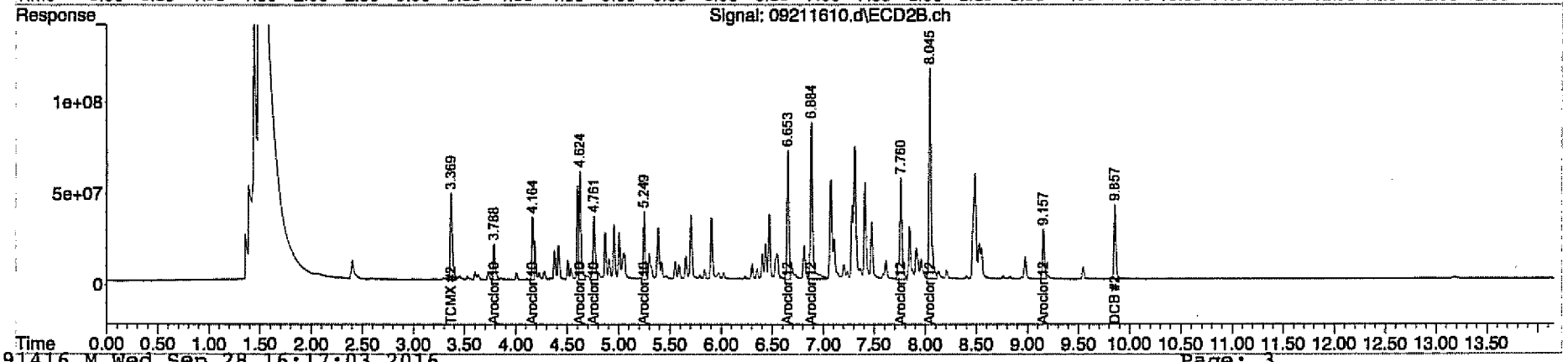
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211610.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 5:44 pm
Operator : EBB
Sample : 1609826-01A MS
Misc : GC-14 91634/91635 AQ
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:31:38 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC14\092116PC\
Data File : 09211612.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 6:20 pm
Operator : EBB
Sample : 1609826-02A DUP
Misc : GC-14 91634/91635 AQ
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:32:58 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	TCMX	3.003	3.370	3265.6E6	438.4E6	0.045	0.043	
47) S	DCB	8.575	9.859	3285.4E6	415.6E6	0.064	0.058	
	Target Compounds							
	Sum Aroclor 1016			0	0	N.D.	N.D.	
	Average Aroclor 1016					0.000	0.000	
	Sum Aroclor 1221			0	0	N.D.	N.D.	
	Average Aroclor 1221					0.000	0.000	
	Sum Aroclor 1232			0	0	N.D.	N.D.	
	Average Aroclor 1232					0.000	0.000	
	Sum Aroclor 1242			0	0	N.D.	N.D.	
	Average Aroclor 1242					0.000	0.000	
	Sum Aroclor 1248			0	0	N.D.	N.D.	
	Average Aroclor 1248					0.000	0.000	
	Sum Aroclor 1254			0	0	N.D.	N.D.	
	Average Aroclor 1254					0.000	0.000	
32) L	Aroclor 1260	5.941	6.654	5004.5E6	569.8E6	1.077	1.414	#
33) L	Aroclor 1...	6.250	6.885	2994.1E6	600.4E6	0.730	1.038	#
34) L	Aroclor 1...	6.652	7.761	1945.6E6	234.3E6	0.787	0.591	
35) L	Aroclor 1...	6.997	8.047	2407.5E6	364.5E6	0.442	0.478	
36) L	Aroclor 1...	8.031	9.159	505.9E6	76801701	0.557	0.395	#
	Sum Aroclor 1260			12857.6E6	1845.9E6	3.594	3.916	
	Average Aroclor 1260					0.719	0.783	
	Sum Aroclor 1262			0	0	N.D.	N.D.	
	Average Aroclor 1262					0.000	0.000	
	Sum Aroclor 1268			0	0	N.D.	N.D.	
	Average Aroclor 1268					0.000	0.000	

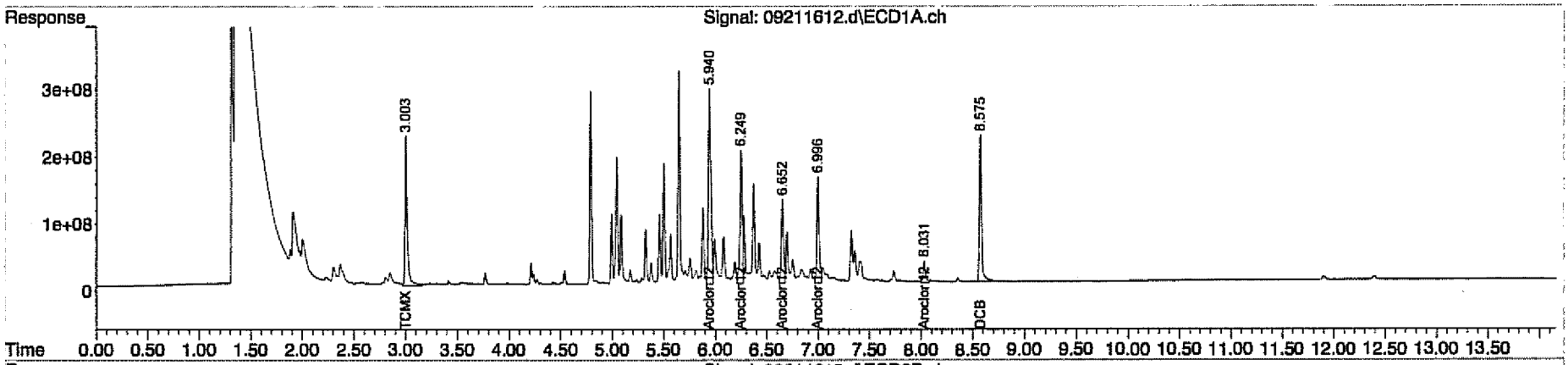
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

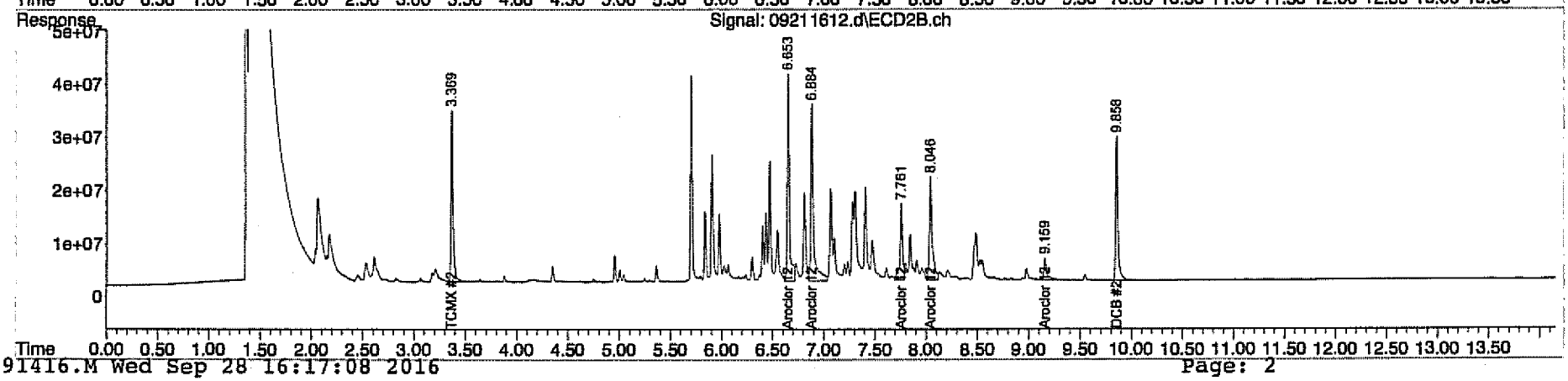
Quantitation Report (QT Reviewed)

Data Path : H:\GC14\092116PC\
Data File : 09211612.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Sep 2016 6:20 pm
Operator : EBB
Sample : 1609826-02A DUP
Misc : GC-14 91634/91635 AQ
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 22 10:32:58 2016
Quant Method : C:\msdchem\1\methods\PC091416.M
Quant Title :
QLast Update : Mon Sep 19 17:13:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2016 Sep 21 1724 Sequence Log

Starting sequence Wed Sep 21 14:41:39 2016

Instrument Name: GC14
Sequence File: C:\msdchem\1\sequence\092116PC.s
Comment: PCB's by GCECD
Operator: EBB
Data Path: C:\MSDCHEM\1\DATA\092116PC\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	09211601	PCB2	CONDITIONING SHOT
2)	Sample	2	09211602	PCB2	BLANK

Wed Sep 21 15:16:10 2016
Fatal sequence error detected.
GC Prerun Aborted

C:\MSDCHEM\1\DATA\092116PC\2016 Sep 21 1441 Quality Log.LOG
C:\MSDCHEM\1\DATA\092116PC\2016 Sep 21 1441 Sequence Log .LOG

Resuming sequence Wed Sep 21 15:31:10 2016

Instrument Name: GC14
Sequence File: C:\msdchem\1\sequence\092116PC.s
Comment: PCB's by GCECD
Operator: EBB
Data Path: C:\MSDCHEM\1\DATA\092116PC\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
3)	Sample	2	09211603	PCB2	BLANK
4)	Sample	3	09211604	PCB2	PCB CCV 5.0 ug/mL
5)	Sample	11	09211605	PCB2	PBLKW1-91634
6)	Sample	12	09211606	PCB2	PLCSW1-91634
7)	Sample	22	09211607	PCB2	16091057-01B

This computer is now swap bound.

Line	Type	Vial	DataFile	Method	Sample Name
8)	Sample	2	09211608	PCB2	BLANK

Sequence paused Wed Sep 21 17:24:10 2016

C:\MSDCHEM\1\DATA\092116PC\2016 Sep 21 1531 Quality Log.LOG
C:\MSDCHEM\1\DATA\092116PC\2016 Sep 21 1531 Sequence Log .LOG

Resuming sequence Wed Sep 21 17:24:28 2016

Instrument Name: GC14
Sequence File: C:\msdchem\1\sequence\092116PC.s
Comment: PCB's by GCECD
Operator: EBB
Data Path: C:\MSDCHEM\1\DATA\092116PC\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
9)	Sample	13	09211609	PCB2	1609826-01A
10)	Sample	14	09211610	PCB2	1609826-01A MS
11)	Sample	15	09211611	PCB2	1609826-02A
12)	Sample	16	09211612	PCB2	1609826-02A DUP

2016 Sep 21 1724 Sequence Log

13)	Sample	17	09211613	PCB2	1609826-03A
14)	Sample	18	09211614	PCB2	1609834-03B
15)	Sample	19	09211615	PCB2	1609844-01B
16)	Sample	3	09211616	PCB2	PCB CCV 5.0 ug/mL
17)	Sample	3	09211617	PCB2	PCB CCV 5.0 ug/mL
18)	Sample	20	09211618	PCB2	1609844-03B
19)	Sample	21	09211619	PCB2	1609844-04B
20)	Sample	22	09211620	PCB2	16091057-01B
21)	Sample	23	09211621	PCB2	1609943-01A
22)	Sample	24	09211622	PCB2	1609969-01A
23)	Sample	25	09211623	PCB2	1609973-01A
24)	Sample	2	09211624	PCB2	BLANK
25)	Sample	31	09211625	PCB2	PBLKS1-91644
26)	Sample	32	09211626	PCB2	PLCSS1-91644
27)	Sample	33	09211627	PCB2	1609886-90A
28)	Sample	34	09211628	PCB2	1609886-90A MS
29)	Sample	3	09211629	PCB2	PCB CCV 5.0 ug/mL
30)	Sample	3	09211630	PCB2	PCB CCV 5.0 ug/mL
31)	Sample	35	09211631	PCB2	1609886-90A MSD
32)	Sample	36	09211632	PCB2	1609886-54A
33)	Sample	37	09211633	PCB2	1609886-55A
34)	Sample	38	09211634	PCB2	1609886-56A
35)	Sample	39	09211635	PCB2	1609886-67A
36)	Sample	40	09211636	PCB2	1609886-71A
37)	Sample	41	09211637	PCB2	1609886-72A
38)	Sample	42	09211638	PCB2	1609886-73A
39)	Sample	43	09211639	PCB2	1609886-74A
40)	Sample	44	09211640	PCB2	1609886-75A
41)	Sample	3	09211641	PCB2	PCB CCV 5.0 ug/mL
42)	Sample	3	09211642	PCB2	PCB CCV 5.0 ug/mL
43)	Sample	45	09211643	PCB2	1609886-86A
44)	Sample	46	09211644	PCB2	1609886-87A
45)	Sample	47	09211645	PCB2	1609886-88A
46)	Sample	48	09211646	PCB2	1609886-89A
47)	Sample	49	09211647	PCB2	1609934-05A
48)	Sample	50	09211648	PCB2	1609934-06A
49)	Sample	51	09211649	PCB2	1609934-07A
50)	Sample	52	09211650	PCB2	1609934-08A
51)	Sample	53	09211651	PCB2	1609934-09A
52)	Sample	54	09211652	PCB2	1609934-10A
53)	Sample	4	09211653	PCB2	PCB CCV 5.0 ug/mL
54)	Sample	4	09211654	PCB2	PCB CCV 5.0 ug/mL
55)	Sample	61	09211655	PCB2	PBLKS1-91709
56)	Sample	62	09211656	PCB2	PLCSS1-91709
57)	Sample	63	09211657	PCB2	1609934-60A
58)	Sample	64	09211658	PCB2	1609934-60A MS
59)	Sample	65	09211659	PCB2	1609934-60A MSD
60)	Sample	4	09211660	PCB2	PCB CCV 5.0 ug/mL
61)	Sample	4	09211661	PCB2	PCB CCV 5.0 ug/mL

Sequence paused Thu Sep 22 08:53:54 2016

C:\MSDCHEM\1\DATA\092116PC\2016 Sep 21 1724 Quality Log.LOG
C:\MSDCHEM\1\DATA\092116PC\2016 Sep 21 1724 Sequence Log .LOG

ALS Group USA, Corp

PREP BATCH REPORT

Batch ID: **91634** Prep Code: **PCB_3510_W**

Start Date: **9/20/2016 8:22:24 AM** End Date: **9/20/2016 7:01:07 PM**

Technician: **Erin Vegter**

InitSamp Wt/Vol: 1000 mL
FinSampVol: 1 mL
OriginalFac: 0.001
PrepUnitFac:

Sample ID	Matrix	pH	Init wt	Init vol	PMoisture	Fin Vol (mL)	Factor
16091057-01B	Surface Water			935	0	1	0.00106952
1609826-01A	Groundwater			1000	0	1	0.001
1609826-01A MS B2	Groundwater			1000	0	1	0.001
1609826-02A	Groundwater			1000	0	1	0.001
1609826-02A Dup B2	Groundwater			1000	0	1	0.001
1609826-03A	Groundwater			785	0	1	0.00130719
1609834-03B B3	Water			1000	0	1	0.001
1609844-01B B3	Water			1000	0	1	0.001
1609844-03B B3	Water			1000	0	1	0.001
1609844-04B B3	Water			1000	0	1	0.001
PBLKW1-91634				1000	0	1	0.001
PLCSW1-91634				1000	0	1	0.001

Notes: *100uL PCB/PE Surrogate, line# 100-8358, added to all samples. 500uL PCB Spike, line# 100-8360. All Samples are B1/E1 unless otherwise noted*

Pesticides

ADDRESS 3352 128th Avenue, Holland Michigan 49424-9236 USA | PHONE +1 616 399 6070 | FAX +1 616 399 6185
ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:54 pm
Operator : BTM
Sample : 16091057-01B DF10
Misc : GC-12 91636 AQ
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 15:59:28 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.816	3.153	15744477	7593.4E6	0.008m	0.703m#
Spiked Amount		0.100 Range	0 -	0 Recovery	=	8.00%#	703.00%#
23) S	DCB	9.375	10.861	21257614	43908756	0.006m	0.006m
Spiked Amount		0.100 Range	0 -	0 Recovery	=	6.00%#	6.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	Hep Epoxide	0.000	0.000	0	0	N.D. d	N.D. d
10)	g-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)	a-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
14)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
17)	Endo II	0.000	0.000	0	0	N.D. d	N.D. d
18)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
19)	End Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endo Sulfate	0.000	0.000	0	0	N.D. d	N.D. d
22)	End Ketone	0.000	0.000	0	0	N.D. d	N.D. d

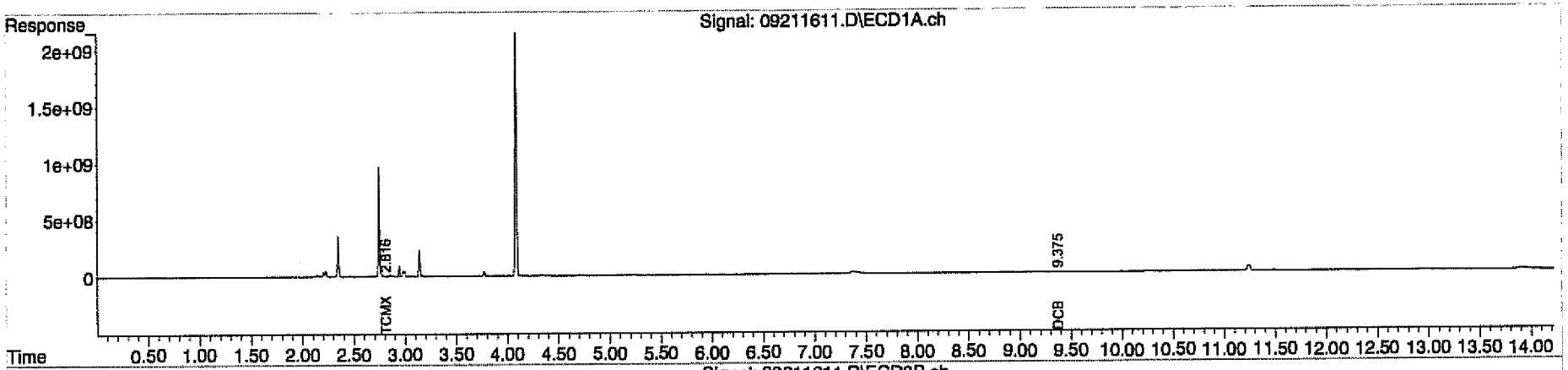
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

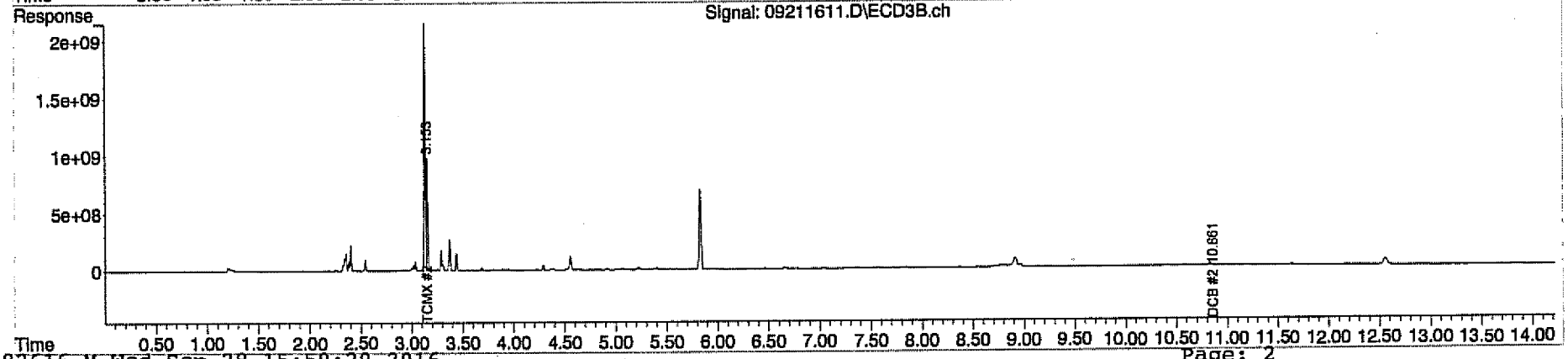
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:54 pm
Operator : BTM
Sample : 16091057-01B DF10
Misc : GC-12 91636 AQ
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 15:59:28 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report GC12

Method Path : H:\GC12\
Method File : PE082616.M
Title :
Last Update : Tue Sep 06 09:04:19 2016
Response Via : Initial Calibration

Calibration Files
0.1 =09021603.D 0.01 =08261606.D 0.02 =08261607.D
0.03 =08261608.D 0.05 =08261609.D 0.08 =08261611.D

		Compound	0.1	0.01	0.02	0.03	0.05	0.08	Avg		%RSD
1)	S	TCMX	2.093	2.378	1.950	2.125	1.941	2.333	2.051	E9	11.00
2)		Hexachloroben...							0.000		-1.00
3)		a-BHC	5.352	4.956	4.301	4.858	4.496	5.966	5.056	E9	11.06
4)		g-BHC	4.920	4.721	4.090	4.546	4.252	5.493	4.694	E9	9.91
5)		b-BHC	1.816	2.035	1.681	1.847	1.666	2.073	1.785	E9	10.73
6)		d-BHC	5.161	4.689	4.112	4.610	4.372	5.805	4.872	E9	11.22
7)		Heptachlor	4.795	4.635	3.990	4.419	4.126	5.448	4.578	E9	10.21
8)		Aldrin	4.780	4.663	4.023	4.421	4.139	5.373	4.571	E9	9.55
9)		Hep Epoxide	4.325	4.305	3.672	4.027	3.754	4.862	4.140	E9	9.36
10)		g-Chlordane	4.413	4.330	3.685	4.048	3.809	4.946	4.217	E9	9.50
11)		a-Chlordane	4.343	4.507	3.802	4.123	3.811	4.905	4.208	E9	8.98
12)		4,4'-DDE	4.241	4.037	3.446	3.790	3.579	4.681	3.999	E9	9.82
13)		Endosulfan I	3.959	4.059	3.438	3.744	3.469	4.434	3.801	E9	9.06
14)		Dieldrin	4.596	4.488	3.777	4.170	3.939	5.100	4.354	E9	9.53
15)		Endrin	4.280	3.981	3.337	3.724	3.546	4.748	3.990	E9	11.04
16)		4,4'-DDD	3.433	3.307	2.779	3.062	2.904	3.810	3.251	E9	9.94
17)		Endo II	3.954	3.981	3.363	3.697	3.434	4.405	3.781	E9	8.95
18)		4,4'-DDT	3.646	3.373	2.817	3.169	3.011	4.063	3.410	E9	11.34
19)		End Aldehyde	3.057	3.062	2.584	2.808	2.659	3.395	2.905	E9	9.04
20)		Methoxychlor	2.156	2.113	1.734	1.900	1.777	2.336	1.973	E9	10.38
21)		Endo Sulfate	3.719	3.765	3.120	3.411	3.189	4.123	3.533	E9	9.24
22)		End Ketone	4.431	4.611	3.859	4.177	3.887	4.945	4.269	E9	8.65
23)	S	DCB	3.833	4.140	3.456	3.669	3.399	4.313	3.726	E9	8.75

Signal #2 Calibration Files
0.1 =09021603.D 0.01 =08261606.D 0.02 =08261607.D
0.03 =08261608.D 0.05 =08261609.D 0.08 =08261611.D

		Compound	0.1	0.01	0.02	0.03	0.05	0.08	Avg		%RSD
1)	S	TCMX	11.041	12.572	10.332	11.043	10.047	12.502	10.803	E9	11.53
2)		Hexachloroben...							0.000		-1.00
3)		a-BHC	18.065	18.458	15.588	17.036	15.879	20.103	17.367	E9	9.46
4)		g-BHC	16.431	17.304	14.427	15.651	14.535	18.131	15.843	E9	9.24
5)		b-BHC	7.331	8.719	7.033	7.465	6.783	8.170	7.266	E9	11.36
6)		d-BHC	16.949	17.315	14.440	15.782	14.747	18.819	16.231	E9	9.41
7)		Heptachlor	15.467	16.470	13.571	14.755	13.522	17.075	14.852	E9	9.67
8)		Aldrin	14.914	15.935	13.079	14.237	13.214	16.483	14.360	E9	9.42
9)		Hep Epoxide	14.012	15.303	12.553	13.554	12.496	15.420	13.578	E9	9.27
10)		g-Chlordane	14.007	15.416	12.625	13.535	12.360	15.760	13.662	E9	9.64
11)		a-Chlordane	13.567	14.826	12.154	13.029	11.997	15.034	13.159	E9	9.31
12)		4,4'-DDE	13.999	14.552	12.101	13.190	12.193	15.465	13.405	E9	9.13
13)		Endosulfan I	12.670	13.640	11.197	12.055	11.177	13.999	12.259	E9	9.09
14)		Dieldrin	14.512	15.182	12.577	13.638	12.610	16.001	13.975	E9	8.83
15)		Endrin	13.236	13.569	11.160	12.160	11.275	14.718	12.628	E9	9.60
16)		4,4'-DDD	12.250	12.834	10.640	11.524	10.644	13.507	11.771	E9	8.80
17)		Endo II	12.395	13.474	10.954	11.780	10.875	13.753	12.019	E9	9.13
18)		4,4'-DDT	12.332	12.410	10.253	11.190	10.386	13.687	11.717	E9	9.58
19)		End Aldehyde	9.568	10.397	8.582	9.126	8.366	10.535	9.263	E9	8.79
20)		Methoxychlor	6.595	7.270	5.887	6.339	5.777	7.401	6.362	E9	10.15
21)		Endo Sulfate	10.916	11.815	9.672	10.332	9.556	12.196	10.582	E9	9.15
22)		End Ketone	13.541	14.934	12.190	12.920	11.946	15.027	13.199	E9	8.88
23)	S	DCB	8.027	9.287	7.475	7.763	7.115	8.953	7.922	E9	9.38

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : H:\GC12\
Method File : PE082616.M
Title :
Last Update : Tue Sep 06 09:04:19 2016
Response Via : Initial Calibration

Calibration Files
0.1 =09021603 0.01=08261606 0.02=08261607 0.03=08261608 0.05=08261609
0.08=08261611 0.15=08261613 0.2 =08261614 0.5 =08261615

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
2)	Hexachlorobenzene	Lin	-----	-----	-----	0.0000
26)	Hexachlorobenzene #2	Lin	-----	-----	-----	0.0000
28)	g-BHC #2	Lin	5.8442 e7	15.0443 e9	-----	0.9954
30)	d-BHC #2	Lin	4.7878 e7	15.7142 e9	-----	0.9959
31)	Heptachlor #2	Lin	8.9288 e7	13.6530 e9	-----	0.9953
32)	Aldrin #2	Lin	8.5385 e7	13.2121 e9	-----	0.9958
33)	Hep Epoxide #2	Lin	8.4761 e7	12.3798 e9	-----	0.9962
34)	g-Chlordane #2	Lin	7.9179 e7	12.5524 e9	-----	0.9963
35)	a-Chlordane #2	Lin	7.8504 e7	12.0694 e9	-----	0.9964
36)	4,4'-DDE #2	Lin	8.7111 e7	12.3556 e9	-----	0.9962
37)	Endosulfan I #2	Lin	6.2893 e7	11.4233 e9	-----	0.9965
38)	Dieldrin #2	Lin	5.0921 e7	13.3832 e9	-----	0.9970
39)	Endrin #2	Lin	5.3538 e7	12.0794 e9	-----	0.9967
40)	4,4'-DDD #2	Lin	5.5057 e7	11.1089 e9	-----	0.9971
41)	Endo II #2	Lin	5.7548 e7	11.2519 e9	-----	0.9971
42)	4,4'-DDT #2	Lin	3.3716 e7	11.4606 e9	-----	0.9973
43)	End Aldehyde #2	Lin	4.4049 e7	8.6505 e9	-----	0.9974
44)	Methoxychlor #2	Lin	5.3212 e7	5.6283 e9	-----	0.9960
45)	Endo Sulfate #2	Lin	5.3055 e7	9.8868 e9	-----	0.9971
46)	End Ketone #2	Lin	6.3074 e7	12.3252 e9	-----	0.9976

Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 2:44 pm
Operator : BTM
Sample : PEST DEG
Misc : ISM-450-1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 15:03:42 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.851	3.163	20419898	103.2E6	0.011m	0.010
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	11.00%#	10.00%#
23) S	DCB	9.449	10.908	33481915	74226785	0.011	0.011
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	11.00%#	11.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	Hep Epoxide	0.000	0.000	0	0	N.D. d	N.D. d
10)	g-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)	a-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	5.303	6.320	2122372	16269816	BelowCalm	0.001m
13)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
14)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.
15)	Endrin	5.951f	6.982	473.4E6	1408.3E6	0.158m	0.135m
16)	4,4'-DDD	6.057f	7.149	11328653	47436891	BelowCalm	0.005m
17)	Endo II	0.000	0.000	0	0	N.D.	N.D.
18)	4,4'-DDT	6.430f	7.618	777.0E6	2516.4E6	0.278	0.254
19)	End Aldehyde	6.816f	7.802	3892865	12813668	BelowCalm	0.002
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endo Sulfate	0.000	0.000	0	0	N.D.	N.D.
22)	End Ketone	7.837f	9.061	10149246	34297097	BelowCalm	0.003m

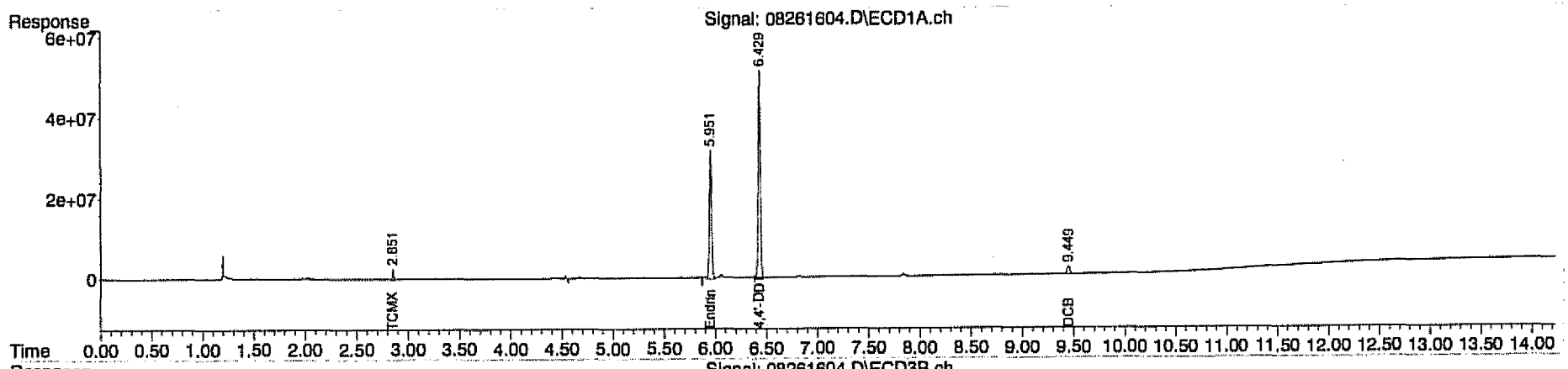
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

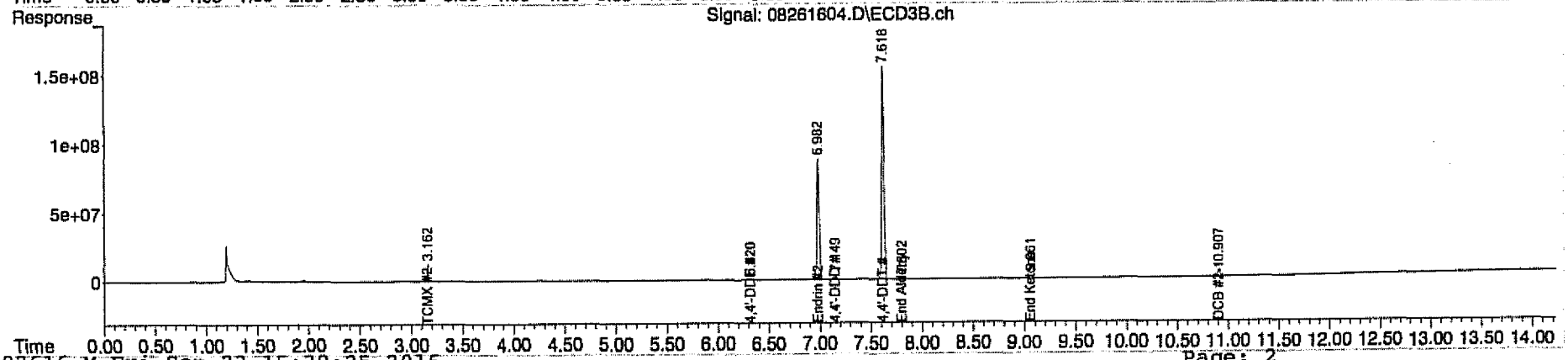
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 2:44 pm
Operator : BTM
Sample : PEST DEG
Misc : ISM-450-1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 15:03:42 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 3:18 pm
Operator : BTM
Sample : PEST 0.01 UG/ML ICAL
Misc : 100-8224
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 15:36:49 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1)	S TCMX	2.849	3.161	23779254	125.7E6	0.013m	0.012m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	13.00%#	12.00%#
23)	S DCB	9.448	10.906	41396870	92869429	0.014m	0.014m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	14.00%#	14.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.272	3.710	49555676	184.6E6	0.009m	0.011m
4)	g-BHC	3.535	4.066	47208955	173.0E6	0.009m	0.012m#
5)	b-BHC	3.605	4.141	20354469	87190838	0.008m	0.013 #
6)	d-BHC	3.768f	4.466	46894254	173.1E6	0.008m	0.012m#
7)	Heptachlor	3.964f	4.552	46346266	164.7E6	0.008m	0.012m#
8)	Aldrin	4.261f	4.934	46625424	159.3E6	0.008m	0.012m#
9)	Hep Epoxide	4.906f	5.644	43054429	153.0E6	0.008	0.012 #
10)	g-Chlordane	5.047f	5.890	43302309	154.2E6	0.008m	0.013m#
11)	a-Chlordane	5.202f	6.087	45068167	148.3E6	0.008m	0.013 #
12)	4,4'-DDE	5.299f	6.314	40369910	145.5E6	0.007	0.012m#
13)	Endosulfan I	5.364f	6.168	40587099	136.4E6	0.008m	0.012 #
14)	Dieldrin	5.657f	6.547	44876873	151.8E6	0.008m	0.012 #
15)	Endrin	5.951f	6.981	39811352	135.7E6	0.007m	0.013 #
16)	4,4'-DDD	6.054f	7.147	33071520	128.3E6	0.008	0.012m#
17)	Endo II	6.244f	7.292	39812204	134.7E6	0.008	0.013 #
18)	4,4'-DDT	6.429f	7.618	33732187	124.1E6	0.008	0.013 #
19)	End Aldehyde	6.816f	7.800	30624658	104.0E6	0.009	0.013m#
20)	Methoxychlor	7.135	8.704	21134925	72700837	0.009	0.014 #
21)	Endo Sulfate	7.435f	8.228	37648304	118.1E6	0.008	0.013 #
22)	End Ketone	7.837f	9.060	46105390	149.3E6	0.009	0.013 #

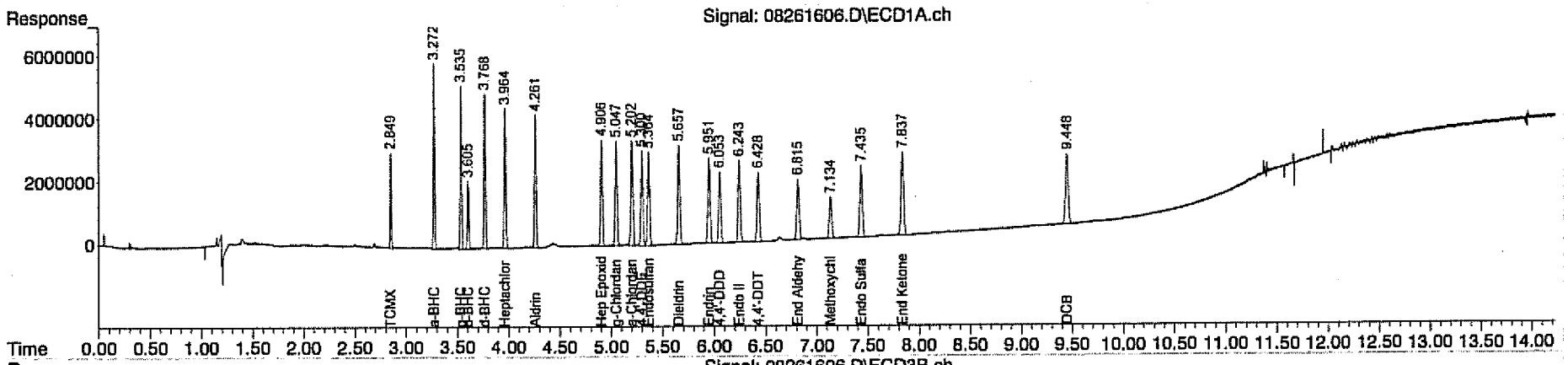
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

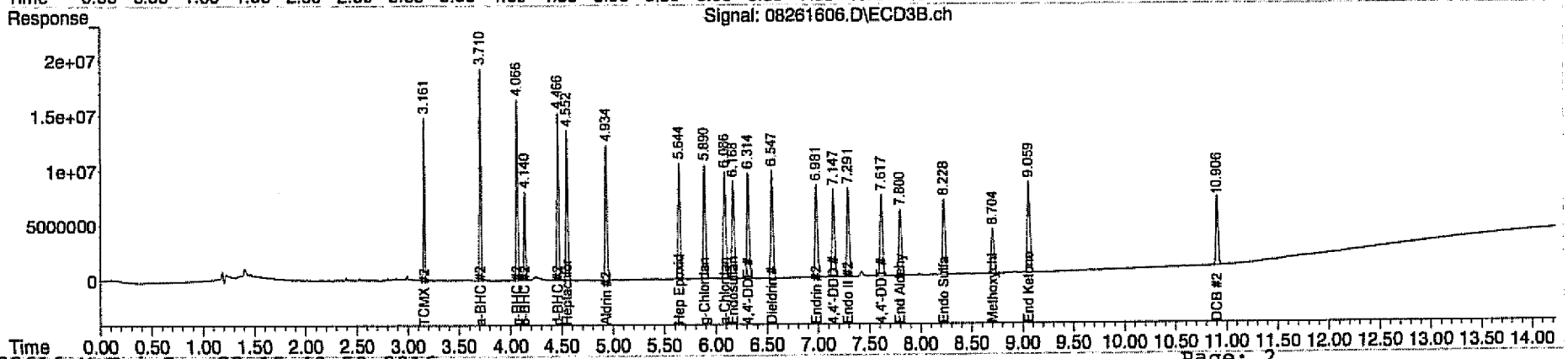
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 3:18 pm
Operator : BTM
Sample : PEST 0.01 UG/ML ICAL
Misc : 100-8224
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 15:36:49 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC12\082616PE\
Data File : 08261607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 3:34 pm
Operator : BTM
Sample : PEST 0.02 UG/ML ICAL
Misc : 100-8224
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 15:53:57 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.848	3.160	38992983	206.6E6	0.021	0.020m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	21.00%#	20.00%#
23) S	DCB	9.446	10.906	69127517	149.5E6	0.023	0.023m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	23.00%#	23.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.270	3.708	86021295	311.8E6	0.018m	0.019m
4)	g-BHC	3.533f	4.065	81795002	288.5E6	0.019m	0.019
5)	b-BHC	3.602f	4.139	33624588	140.7E6	0.019m	0.021
6)	d-BHC	3.766f	4.465	82232534	288.8E6	0.018	0.019
7)	Heptachlor	3.963f	4.551	79792803	271.4E6	0.017m	0.020m
8)	Aldrin	4.258f	4.933	80463326	261.6E6	0.018	0.020
9)	Hep Epoxide	4.903f	5.643	73435173	251.1E6	0.018	0.020m
10)	g-Chlordane	5.045f	5.889f	73694089	252.5E6	0.018m	0.021m
11)	a-Chlordane	5.200f	6.086	76042732	243.1E6	0.018m	0.021
12)	4,4'-DDE	5.297f	6.313	68921093	242.0E6	0.017	0.020
13)	Endosulfan I	5.362f	6.167	68766929	223.9E6	0.018m	0.020
14)	Dieldrin	5.655f	6.546f	75538331	251.5E6	0.018	0.020
15)	Endrin	5.948f	6.981	66733214	223.2E6	0.018m	0.021
16)	4,4'-DDD	6.051f	7.147	55579798	212.8E6	0.017	0.021m
17)	Endo II	6.239f	7.291	67262238	219.1E6	0.018m	0.021m
18)	4,4'-DDT	6.426f	7.616	56335188	205.1E6	0.017m	0.021m
19)	End Aldehyde	6.813f	7.799	51679858	171.6E6	0.018m	0.021m
20)	Methoxychlor	7.132	8.704	34683814	117.7E6	0.019m	0.022m
21)	Endo Sulfate	7.433f	8.227	62404019	193.4E6	0.019	0.021
22)	End Ketone	7.835f	9.059	77179595	243.8E6	0.019	0.021

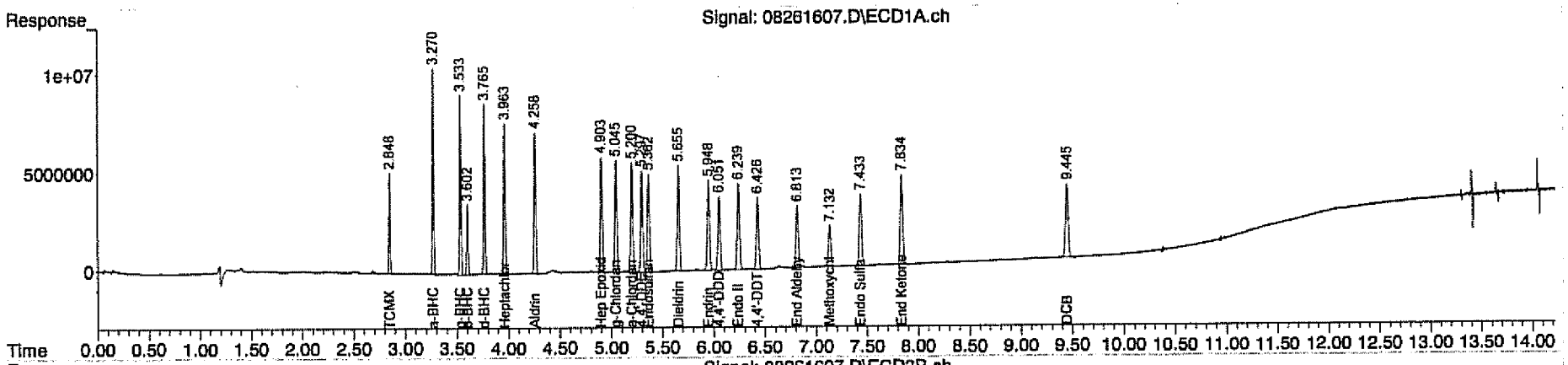
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

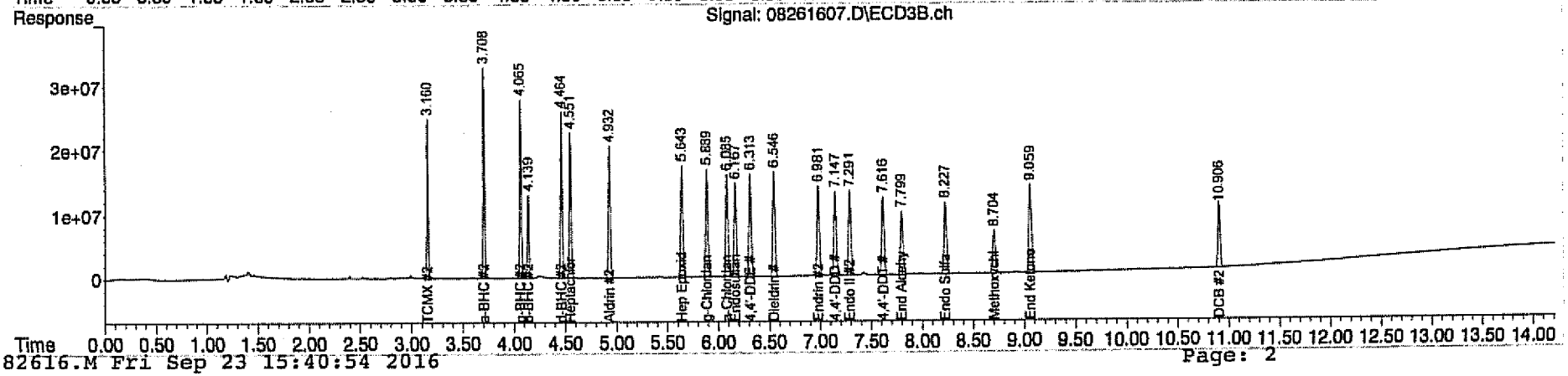
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 3:34 pm
Operator : BTM
Sample : PEST 0.02 UG/ML ICAL
Misc : 100-8224
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 15:53:57 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261608.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 3:51 pm
Operator : BTM
Sample : PEST 0.03 UG/ML ICAL
Misc : 100-8224
ALS Vial : 103 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 16:09:23 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.848	3.160	63751977	331.3E6	0.035	0.032m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	35.00%#	32.00%#
23) S	DCB	9.445	10.906	110.1E6	232.9E6	0.037	0.035
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	37.00%#	35.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.271	3.709	145.7E6	511.1E6	0.033	0.031
4)	g-BHC	3.533f	4.066	136.4E6	469.5E6	0.034m	0.031
5)	b-BHC	3.602f	4.139	55397981	224.0E6	0.035m	0.033
6)	d-BHC	3.766f	4.465	138.3E6	473.5E6	0.033m	0.031
7)	Heptachlor	3.963f	4.551	132.6E6	442.6E6	0.033	0.033m
8)	Aldrin	4.259f	4.933	132.6E6	427.1E6	0.033	0.032
9)	Hep Epoxide	4.904f	5.643	120.8E6	406.6E6	0.033	0.033
10)	g-Chlordane	5.045f	5.889	121.4E6	406.0E6	0.034m	0.033m
11)	a-Chlordane	5.199f	6.086	123.7E6	390.9E6	0.034m	0.033
12)	4,4'-DDE	5.297f	6.314	113.7E6	395.7E6	0.032m	0.033
13)	Endosulfan I	5.362f	6.168	112.3E6	361.7E6	0.033	0.033
14)	Dieldrin	5.654f	6.547	125.1E6	409.2E6	0.033m	0.033
15)	Endrin	5.948f	6.981f	111.7E6	364.8E6	0.035m	0.035m
16)	4,4'-DDD	6.052f	7.148	91873074	345.7E6	0.033	0.034
17)	Endo II	6.240f	7.291	110.9E6	353.4E6	0.034m	0.033
18)	4,4'-DDT	6.426f	7.617	95073658	335.7E6	0.034	0.034m
19)	End Aldehyde	6.814f	7.800	84235783	273.8E6	0.033m	0.033m
20)	Methoxychlor	7.132	8.705	57003634	190.2E6	0.036	0.036
21)	Endo Sulfate	7.433f	8.228	102.3E6	310.0E6	0.035	0.034
22)	End Ketone	7.835f	9.060	125.3E6	387.6E6	0.035	0.033

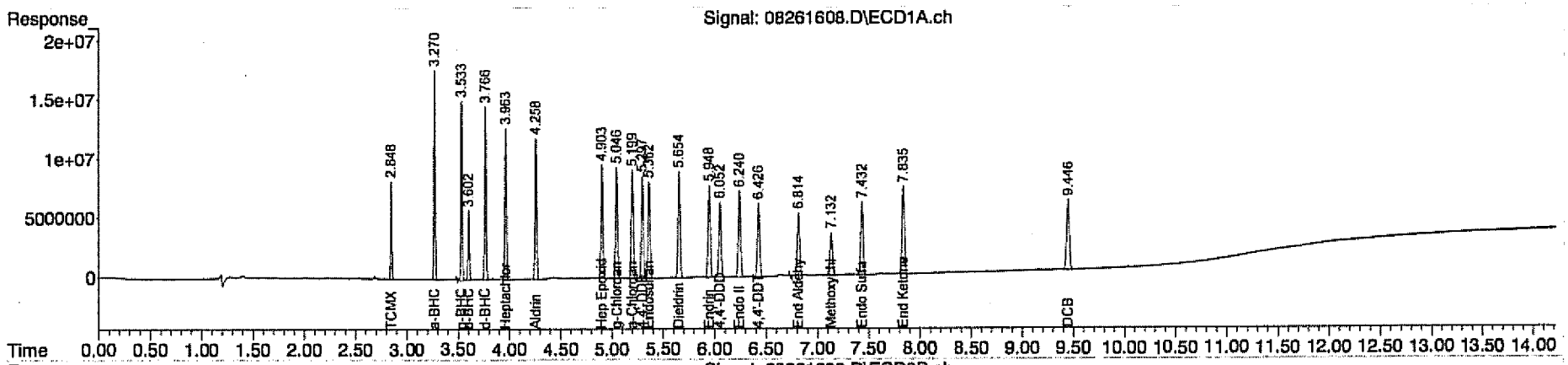
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

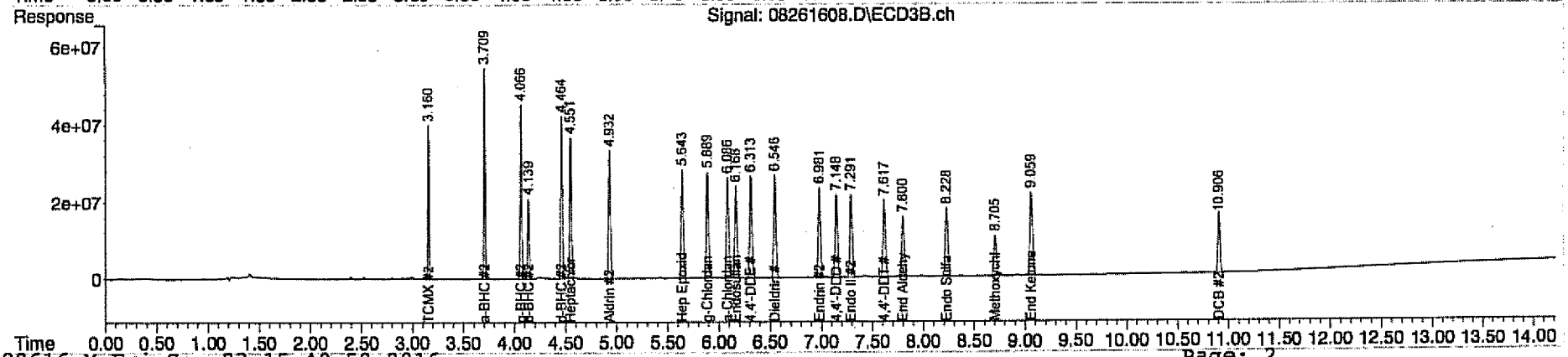
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261608.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 3:51 pm
Operator : BTM
Sample : PEST 0.03 UG/ML ICAL
Misc : 100-8224
ALS Vial : 103 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 26 16:09:23 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Thu Aug 25 10:06:35 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC12\082616PE\
Data File : 08261609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 4:08 pm
Operator : BTM
Sample : PEST 0.05 UG/ML ICAL
Misc : 100-8224
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:32:37 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.848	3.160	97028583	502.4E6	0.053	0.048m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	53.00%#	48.00%#
23) S	DCB	9.444	10.907	170.0E6	355.8E6	0.057m	0.054
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	57.00%#	54.00%#
	Target Compounds						
2)	Hexachlor...	2.921	0.000	3366628	0	NoCal	N.D.
3)	a-BHC	3.270	3.708	224.8E6	793.9E6	0.052m	0.048
4)	g-BHC	3.533	4.065	212.6E6	726.7E6	0.054m	0.049
5)	b-BHC	3.602	4.139	83283761	339.1E6	0.056	0.050
6)	d-BHC	3.766	4.464	218.6E6	737.4E6	0.054	0.049
7)	Heptachlor	3.962	4.551	206.3E6	676.1E6	0.054	0.050
8)	Aldrin	4.258	4.932	206.9E6	660.7E6	0.054	0.050
9)	Hep Epoxide	4.903	5.643	187.7E6	624.8E6	0.055	0.051
10)	g-Chlordane	5.045	5.889	190.4E6	618.0E6	0.055	0.050m
11)	a-Chlordane	5.199	6.085	190.5E6	599.9E6	0.056	0.051
12)	4,4'-DDE	5.296	6.313	179.0E6	609.6E6	0.054	0.051
13)	Endosulfan I	5.362	6.167	173.5E6	558.8E6	0.054	0.051
14)	Dieldrin	5.655	6.546	197.0E6	630.5E6	0.055	0.051
15)	Endrin	5.947	6.981	177.3E6	563.7E6	0.059m	0.054
16)	4,4'-DDD	6.051	7.147	145.2E6	532.2E6	0.055	0.052m
17)	Endo II	6.240	7.291	171.7E6	543.7E6	0.055	0.051
18)	4,4'-DDT	6.426	7.617	150.6E6	519.3E6	0.057	0.052
19)	End Aldehyde	6.813	7.799	133.0E6	418.3E6	0.056m	0.050m
20)	Methoxychlor	7.131	8.704	88873299	288.8E6	0.060	0.055
21)	Endo Sulfate	7.432	8.227	159.4E6	477.8E6	0.058	0.052
22)	End Ketone	7.834	9.059	194.4E6	597.3E6	0.057	0.051

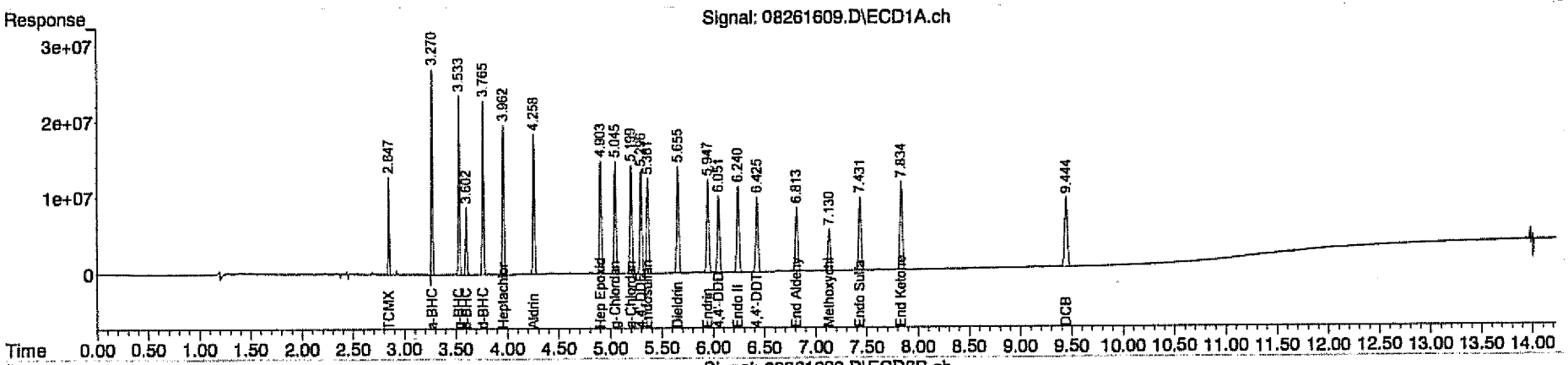
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

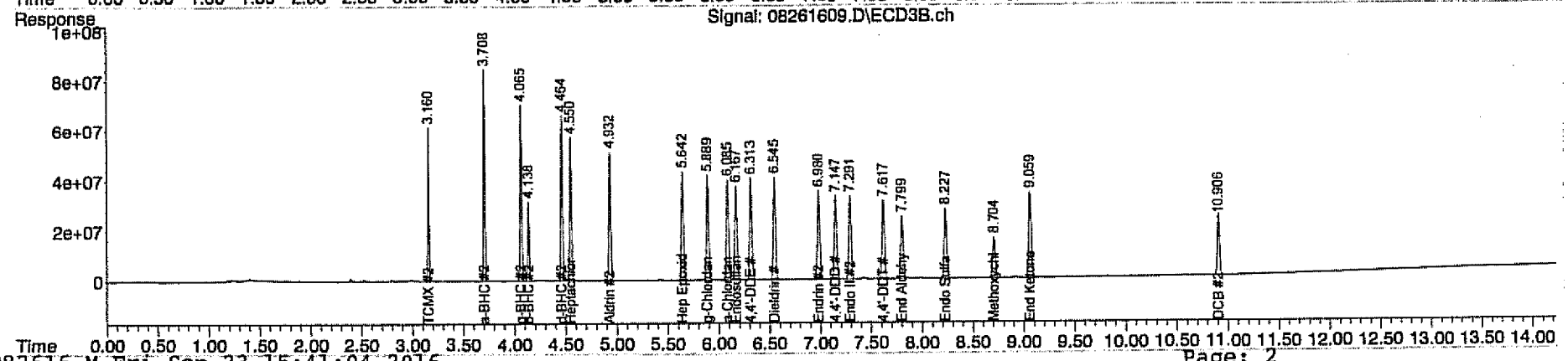
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 4:08 pm
Operator : BTM
Sample : PEST 0.05 UG/ML ICAL
Misc : 100-8224
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:32:37 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC12\082616PE\
Data File : 08261610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 4:24 pm
Operator : BTM
Sample : PEST 0.08 UG/ML ICAL
Misc : 100-8224
ALS Vial : 105 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:33:05 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	0.000	0.000	0	0	N.D.	N.D.
Spiked Amount		0.100 Range	0 - 0	Recovery	=	0.00%#	0.00%#
23) S	DCB	0.000	0.000	0	0	N.D.	N.D.
Spiked Amount		0.100 Range	0 - 0	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	g-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	b-BHC	0.000	0.000	0	0	N.D.	N.D.
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
8)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	Hep Epoxide	0.000	0.000	0	0	N.D.	N.D.
10)	g-Chlordane	0.000	0.000	0	0	N.D.	N.D.
11)	a-Chlordane	0.000	0.000	0	0	N.D.	N.D.
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
14)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.
15)	Endrin	0.000	0.000	0	0	N.D.	N.D.
16)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
17)	Endo II	0.000	0.000	0	0	N.D.	N.D.
18)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
19)	End Aldehyde	0.000	0.000	0	0	N.D.	N.D.
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endo Sulfate	0.000	0.000	0	0	N.D.	N.D.
22)	End Ketone	0.000	0.000	0	0	N.D.	N.D.

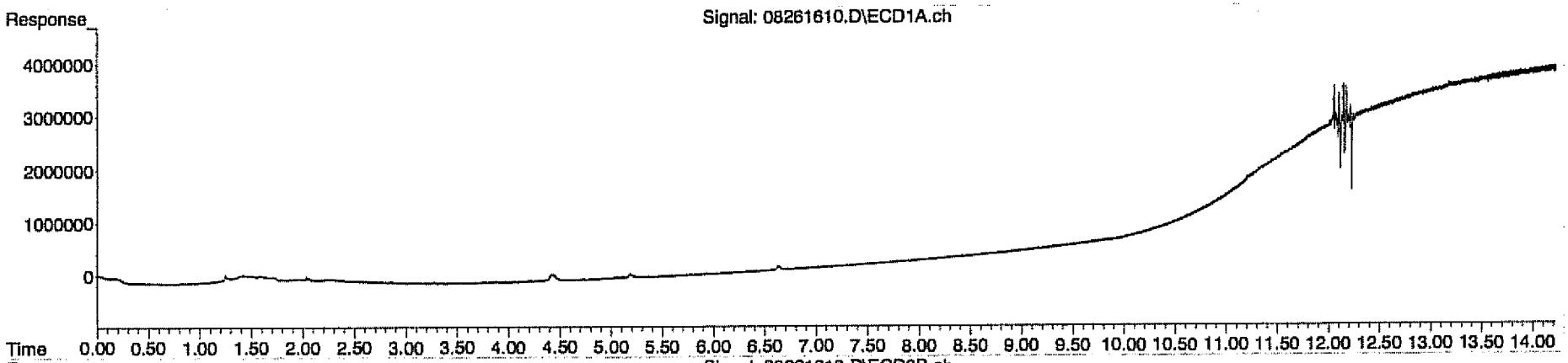
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

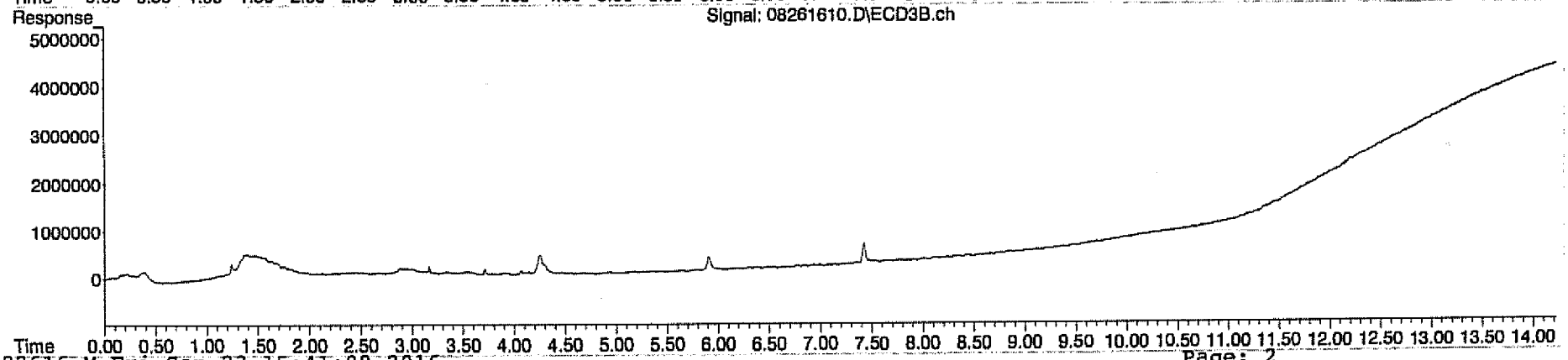
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 4:24 pm
Operator : BTM
Sample : PEST 0.08 UG/ML ICAL
Misc : 100-8224
ALS Vial : 105 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:33:05 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 4:48 pm
Operator : BTM
Sample : PEST 0.08 UG/ML ICAL
Misc : 100-8224 RR
ALS Vial : 105 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:37:09 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.873f	3.181	186.6E6	1000.2E6	0.103	0.096
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	103.00%#	96.00%#
23) S	DCB	9.463	10.912	345.0E6	716.2E6	0.115	0.109
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	115.00%#	109.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.300f	3.732f	477.3E6	1608.2E6	0.110	0.097
4)	g-BHC	3.564f	4.089f	439.4E6	1450.5E6	0.111m	0.097
5)	b-BHC	3.634f	4.163f	165.8E6	653.6E6	0.115m	0.096
6)	d-BHC	3.798f	4.489f	464.4E6	1505.5E6	0.114m	0.100
7)	Heptachlor	3.995f	4.574f	435.9E6	1366.0E6	0.115m	0.101
8)	Aldrin	4.291f	4.954f	429.8E6	1318.6E6	0.114m	0.100
9)	Hep Epoxide	4.935f	5.662f	389.0E6	1233.6E6	0.116m	0.101
10)	g-Chlordane	5.077f	5.907f	395.7E6	1260.8E6	0.117m	0.102
11)	a-Chlordane	5.230f	6.104f	392.4E6	1202.7E6	0.118m	0.102
12)	4,4'-DDE	5.328f	6.330f	374.5E6	1237.2E6	0.117m	0.104
13)	Endosulfan I	5.392f	6.186f	354.7E6	1119.9E6	0.115m	0.102
14)	Dieldrin	5.684f	6.562f	408.0E6	1280.0E6	0.115	0.103
15)	Endrin	5.976f	6.996f	379.8E6	1177.4E6	0.128	0.113
16)	4,4'-DDD	6.079f	7.161	304.8E6	1080.6E6	0.118	0.105
17)	Endo II	6.267f	7.305	352.4E6	1100.2E6	0.117	0.104
18)	4,4'-DDT	6.453f	7.631	325.1E6	1095.0E6	0.125	0.111
19)	End Aldehyde	6.838f	7.812	271.6E6	842.8E6	0.116m	0.102m
20)	Methoxychlor	7.156	8.714	186.9E6	592.1E6	0.131	0.112
21)	Endo Sulfate	7.455f	8.239	329.9E6	975.6E6	0.123	0.106
22)	End Ketone	7.857f	9.069	395.6E6	1202.2E6	0.120	0.103

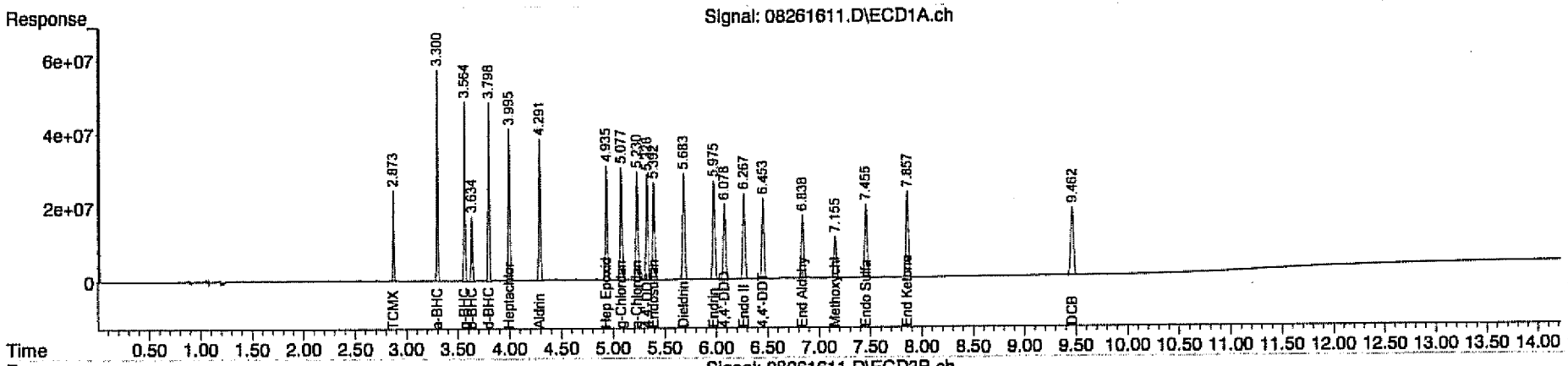
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

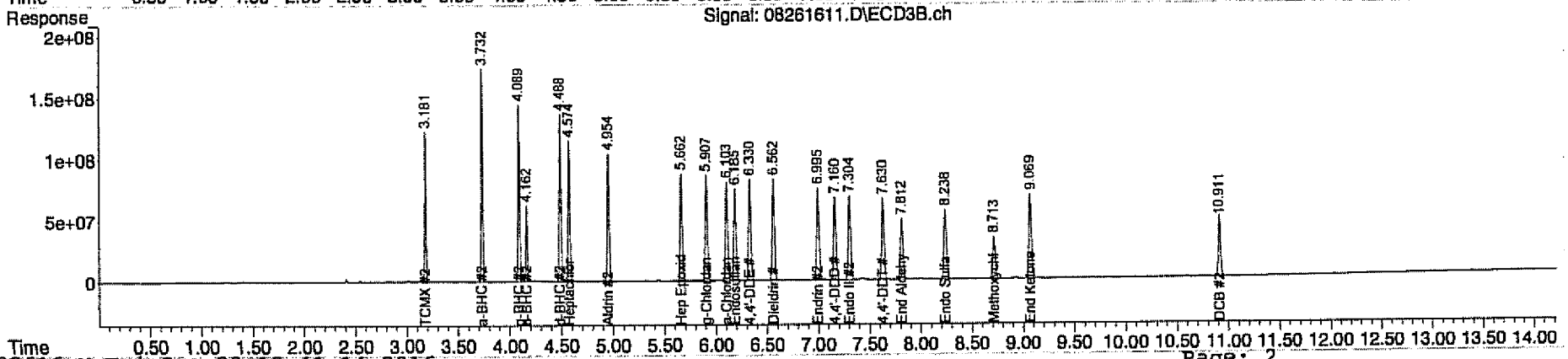
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 4:48 pm
Operator : BTM
Sample : PEST 0.08 UG/ML ICAL
Misc : 100-8224 RR
ALS Vial : 105 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:37:09 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : H:\GC12\082616PE\
Data File : 08261612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:04 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICAL
Misc : 100-8224
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:40:02 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.848	3.161	209.3E6	1104.1E6	0.115	0.106
Spiked Amount		0.100 Range	0 -	0 Recovery	=	115.00%#	106.00%#
23) S	DCB	9.446	10.907	383.3E6	802.7E6	0.128	0.122
Spiked Amount		0.100 Range	0 -	0 Recovery	=	128.00%#	122.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.272	3.710	535.2E6	1806.5E6	0.122	0.109
4)	g-BHC	3.534	4.067	492.0E6	1643.1E6	0.124m	0.110
5)	b-BHC	3.604	4.140	181.6E6	733.1E6	0.126	0.108
6)	d-BHC	3.767	4.466	516.1E6	1694.9E6	0.126	0.113
7)	Heptachlor	3.964	4.552	479.5E6	1546.7E6	0.126	0.114
8)	Aldrin	4.260	4.934	478.0E6	1491.4E6	0.127	0.113
9)	Hep Epoxide	4.905	5.644	432.5E6	1401.2E6	0.128	0.114
10)	g-Chlordane	5.047	5.890	441.3E6	1400.7E6	0.130	0.114
11)	a-Chlordane	5.201	6.087	434.3E6	1356.7E6	0.131	0.115
12)	4,4'-DDE	5.298	6.314	424.1E6	1399.9E6	0.132	0.118
13)	Endosulfan I	5.364	6.169	395.9E6	1267.0E6	0.128	0.115
14)	Dieldrin	5.655	6.547	459.6E6	1451.2E6	0.130	0.117
15)	Endrin	5.949	6.982	428.0E6	1323.6E6	0.144	0.127
16)	4,4'-DDD	6.052	7.148	343.3E6	1225.0E6	0.133	0.119
17)	Endo II	6.241	7.292	395.4E6	1239.5E6	0.131	0.117
18)	4,4'-DDT	6.427	7.618	364.6E6	1233.2E6	0.140	0.124m
19)	End Aldehyde	6.814	7.801	305.7E6	956.8E6	0.131m	0.115
20)	Methoxychlor	7.133	8.704	215.6E6	659.5E6	0.151	0.125
21)	Endo Sulfate	7.433	8.228	371.9E6	1091.6E6	0.138	0.119
22)	End Ketone	7.836	9.060	443.1E6	1354.1E6	0.135	0.117

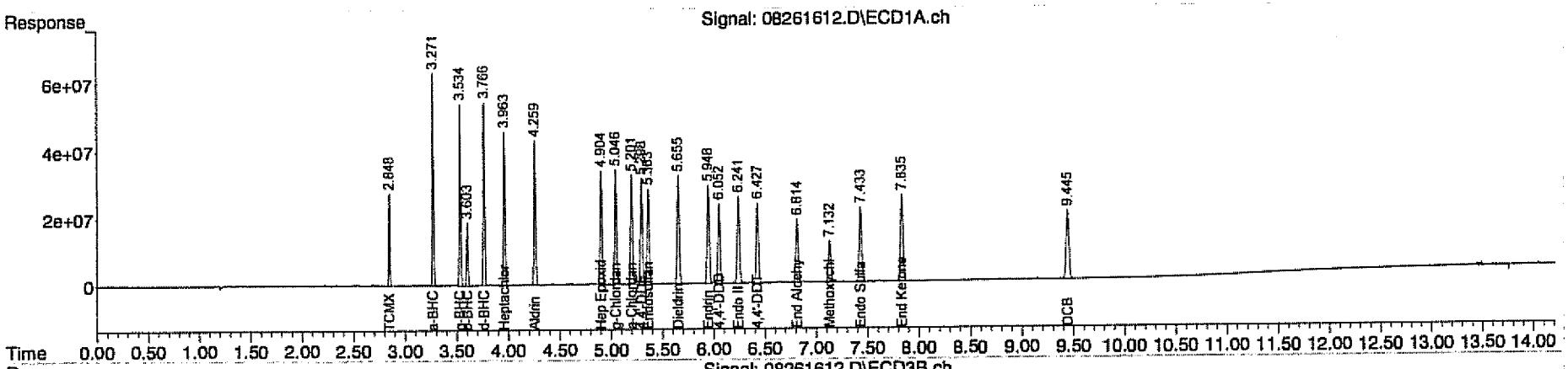
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

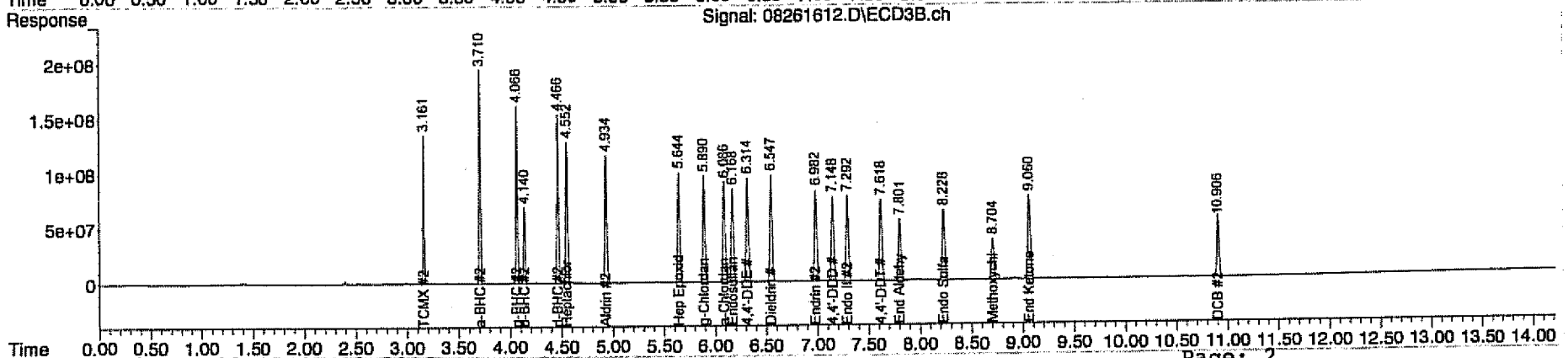
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:04 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICAL
Misc : 100-8224
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:40:02 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:21 pm
Operator : BTM
Sample : PEST 0.15 UG/ML ICAL
Misc : 100-8224
ALS Vial : 107 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:46:52 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.849	3.161	319.9E6	1693.4E6	0.176	0.163m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	176.00%#	163.00%#
23) S	DCB	9.446	10.906	568.8E6	1189.8E6	0.190	0.181
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	190.00%#	181.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.272	3.710	852.2E6	2840.7E6	0.188	0.171
4)	g-BHC	3.535	4.067	778.1E6	2554.4E6	0.190	0.171
5)	b-BHC	3.604	4.141	276.9E6	1113.0E6	0.191	0.163
6)	d-BHC	3.768	4.466	819.1E6	2639.7E6	0.194	0.175
7)	Heptachlor	3.965	4.553	754.7E6	2383.8E6	0.194	0.176
8)	Aldrin	4.260	4.934	748.2E6	2290.5E6	0.194	0.173
9)	Hep Epoxide	4.905	5.644	670.1E6	2142.6E6	0.195	0.175
10)	g-Chlordane	5.047	5.890	685.2E6	2152.4E6	0.197	0.175
11)	a-Chlordane	5.201	6.087	668.6E6	2073.1E6	0.198	0.175
12)	4,4'-DDE	5.299	6.315	652.6E6	2149.7E6	0.198	0.181
13)	Endosulfan I	5.364	6.169	605.8E6	1950.2E6	0.193	0.177
14)	Dieldrin	5.657	6.548	706.8E6	2239.4E6	0.196	0.180
15)	Endrin	5.950	6.982	658.8E6	2043.0E6	0.215	0.196
16)	4,4'-DDD	6.053	7.148	531.3E6	1870.5E6	0.201	0.181
17)	Endo II	6.242	7.292	605.3E6	1892.0E6	0.198m	0.178
18)	4,4'-DDT	6.428	7.618	562.0E6	1887.4E6	0.209	0.191
19)	End Aldehyde	6.814	7.800	463.9E6	1438.8E6	0.196m	0.173m
20)	Methoxychlor	7.133	8.705	310.6E6	976.8E6	0.216	0.185
21)	Endo Sulfate	7.433	8.228	562.2E6	1659.2E6	0.206	0.181
22)	End Ketone	7.835	9.059	670.8E6	2047.1E6	0.202	0.176

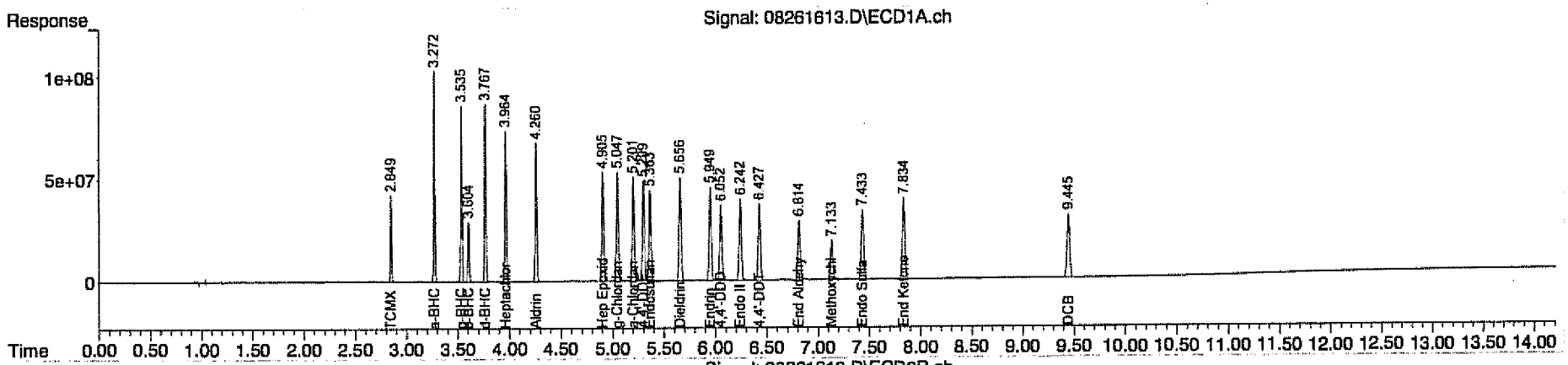
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

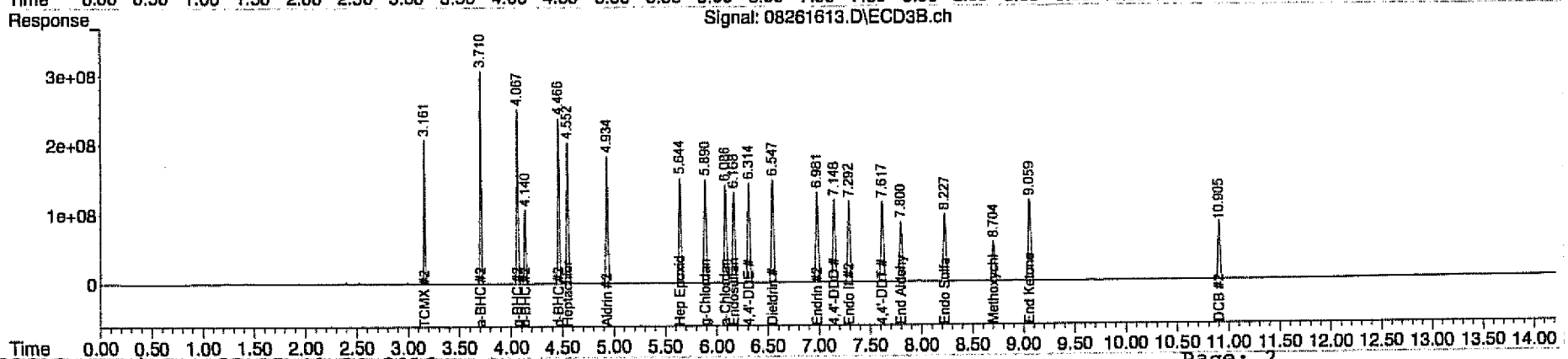
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:21 pm
Operator : BTM
Sample : PEST 0.15 UG/ML ICAL
Misc : 100-8224
ALS Vial : 107 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:46:52 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:38 pm
Operator : BTM
Sample : PEST 0.2 UG/ML ICAL
Misc : 100-8224
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:47:53 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S TCMX	2.849	3.161	338.6E6	1793.5E6	0.186	0.173
Spiked Amount	0.100 Range	0 -	0 Recovery	=	186.00%#	173.00%#
23) S DCB	9.445	10.906	696.3E6	1469.3E6	0.233	0.224
Spiked Amount	0.100 Range	0 -	0 Recovery	=	233.00%#	224.00%#
Target Compounds						
2) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3) a-BHC	3.272	3.710	920.7E6	3057.8E6	0.202	0.184
4) g-BHC	3.535	4.067	848.1E6	2778.0E6	0.206	0.186
5) b-BHC	3.604	4.140	302.2E6	1215.3E6	0.208	0.178
6) d-BHC	3.768	4.466	908.5E6	2921.1E6	0.213	0.194
7) Heptachlor	3.965	4.553	835.7E6	2628.4E6	0.213	0.194
8) Aldrin	4.260	4.934	837.5E6	2556.7E6	0.215	0.193
9) Hep Epoxide	4.905	5.644	758.5E6	2416.8E6	0.219	0.197
10) g-Chlordane	5.047	5.890	780.6E6	2448.8E6	0.222	0.199
11) a-Chlordane	5.202	6.087	765.4E6	2367.5E6	0.224	0.200
12) 4,4'-DDE	5.299	6.314	755.1E6	2479.0E6	0.226	0.208
13) Endosulfan I	5.364	6.169	690.4E6	2218.1E6	0.219	0.201
14) Dieldrin	5.656	6.547	815.1E6	2575.2E6	0.223	0.208
15) Endrin	5.950	6.982	764.3E6	2357.9E6	0.245	0.226
16) 4,4'-DDD	6.053	7.149	622.8E6	2181.7E6	0.232	0.212
17) Endo II	6.242	7.292	702.9E6	2200.7E6	0.228	0.207
18) 4,4'-DDT	6.427	7.617	661.8E6	2224.2E6	0.242	0.225
19) End Aldehyde	6.815	7.800	540.8E6	1697.9E6	0.227	0.205
20) Methoxychlor	7.133	8.705	369.1E6	1159.9E6	0.254	0.220
21) Endo Sulfate	7.433	8.228	660.5E6	1949.5E6	0.239	0.212
22) End Ketone	7.835	9.060	795.5E6	2437.4E6	0.237	0.210

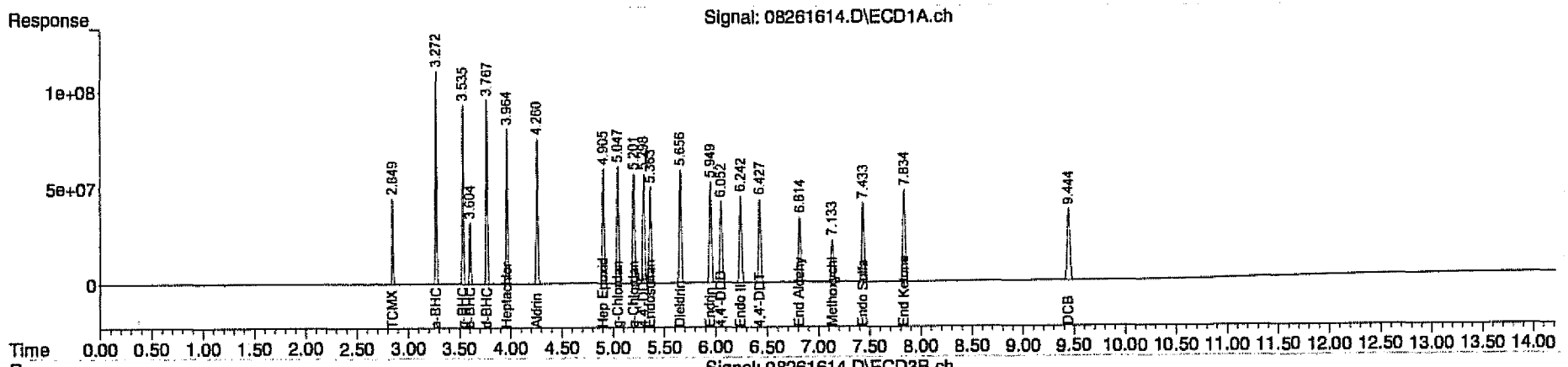
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

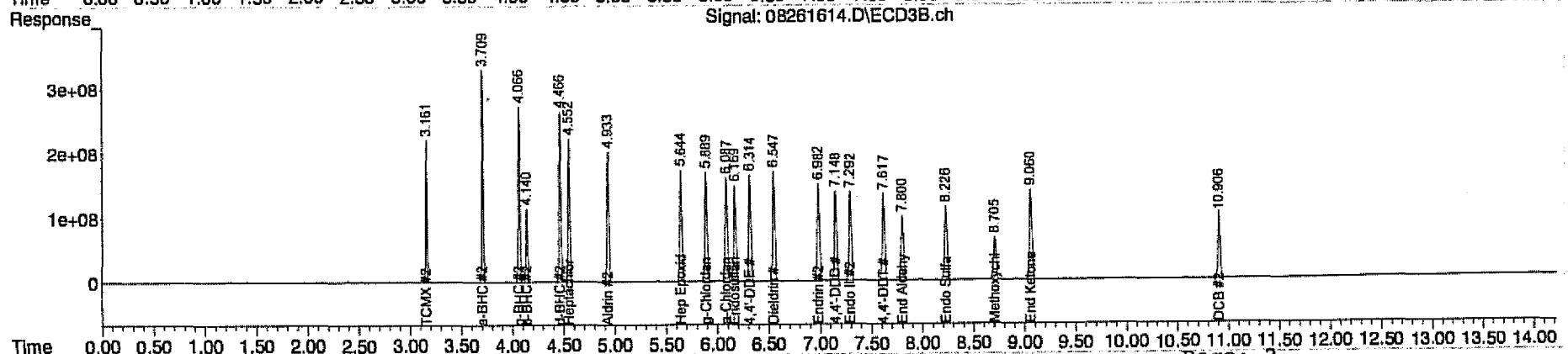
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:38 pm
Operator : BTM
Sample : PEST 0.2 UG/ML ICAL
Misc : 100-8224
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:47:53 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261615.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:55 pm
Operator : BTM
Sample : PEST 0.5 UG/ML ICAL
Misc : 100-8224
ALS Vial : 109 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:49:04 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.849	3.161	907.0E6	4714.2E6	0.499	0.454
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	499.00%#	454.00%#
23) S	DCB	9.444	10.905	1725.1E6	3697.9E6	0.577	0.564
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	577.00%#	564.00%#
	Target Compounds						
2)	Hexachlor...	0.000	3.488	0	9550923	N.D.	NoCal
3)	a-BHC	3.272	3.710	2645.9E6	8476.4E6	0.497	0.511
4)	g-BHC	3.535	4.067	2400.9E6	7592.7E6	0.500	0.507
5)	b-BHC	3.604	4.140	793.4E6	3199.1E6	0.502	0.469
6)	d-BHC	3.767	4.466	2549.3E6	7911.2E6	0.510	0.526
7)	Heptachlor	3.964	4.552	2290.5E6	6888.3E6	0.505	0.510
8)	Aldrin	4.260	4.934	2284.7E6	6664.2E6	0.510	0.504
9)	Hep Epoxide	4.905	5.644	2025.5E6	6246.1E6	0.519	0.510
10)	g-Chlordane	5.046	5.890	2123.6E6	6328.9E6	0.523	0.514
11)	a-Chlordane	5.201	6.086	2048.5E6	6083.5E6	0.527	0.515
12)	4,4'-DDE	5.297	6.314	2044.5E6	6210.8E6	0.530	0.522
13)	Endosulfan I	5.363	6.168	1808.7E6	5752.6E6	0.514	0.522
14)	Dieldrin	5.656	6.546	2164.2E6	6726.3E6	0.522	0.542
15)	Endrin	5.948	6.981	2039.7E6	6063.0E6	0.557	0.581
16)	4,4'-DDD	6.052	7.148	1655.6E6	5582.9E6	0.535	0.542
17)	Endo II	6.240	7.291	1822.4E6	5661.6E6	0.528	0.533
18)	4,4'-DDT	6.427	7.617	1775.3E6	5744.5E6	0.549	0.580
19)	End Aldehyde	6.813	7.800	1391.4E6	4354.0E6	0.529	0.525
20)	Methoxychlor	7.132	8.704	909.6E6	2837.4E6	0.567	0.537
21)	Endo Sulfate	7.432	8.227	1711.4E6	4973.2E6	0.549	0.542
22)	End Ketone	7.835	9.059	2031.1E6	6199.4E6	0.545	0.534

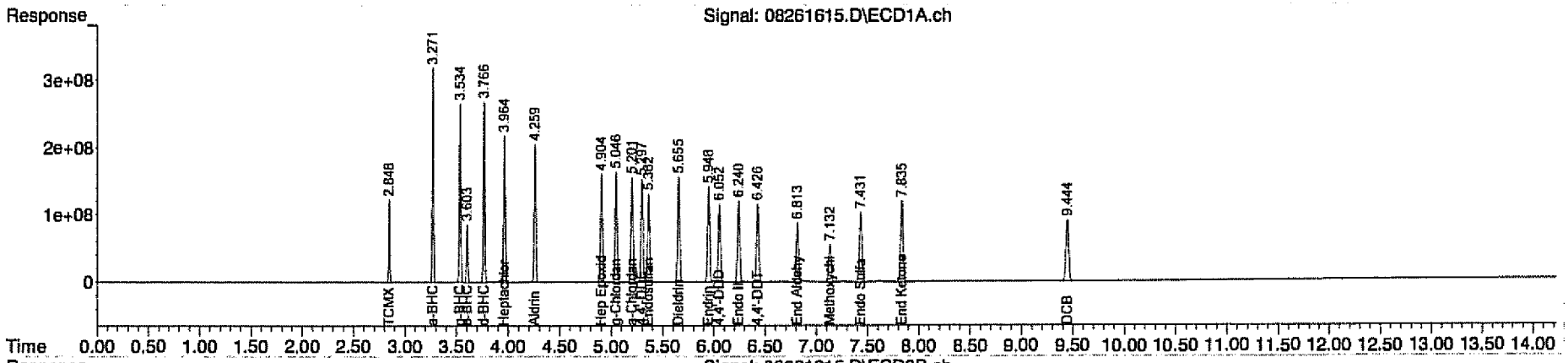
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

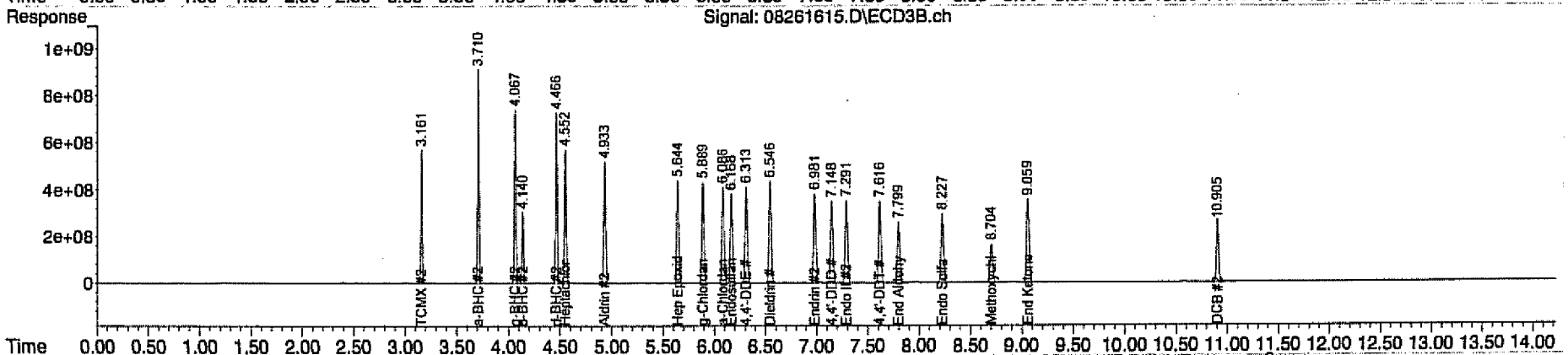
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261615.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 5:55 pm
Operator : BTM
Sample : PEST 0.5 UG/ML ICAL
Misc : 100-8224
ALS Vial : 109 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 08:49:04 2016
Quant Method : C:\msdchem\2\methods\PE082416.M
Quant Title :
QLast Update : Mon Aug 29 08:30:19 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 6:11 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICV
Misc : 100-8166
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 09:09:05 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Aug 29 09:08:06 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.849	3.161	174.5E6	927.3E6	0.085	0.086
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	85.00%#	86.00%#
23) S	DCB	9.445	10.905	364.8E6	765.0E6	0.098	0.097
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	98.00%#	97.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.272	3.709	427.7E6	1467.7E6	0.085	0.085m
4)	g-BHC	3.535	4.067	402.5E6	1356.9E6	0.086	0.086
5)	b-BHC	3.604	4.140	151.0E6	615.2E6	0.085	0.085m
6)	d-BHC	3.767	4.466	424.8E6	1401.6E6	0.087	0.086
7)	Heptachlor	3.964	4.552	398.1E6	1298.4E6	0.087	0.089
8)	Aldrin	4.260	4.933	398.7E6	1254.1E6	0.087	0.088
9)	Hep Epoxide	4.905	5.644	367.9E6	1196.1E6	0.089	0.090
10)	g-Chlordane	5.047	5.890	372.6E6	1201.0E6	0.088	0.089
11)	a-Chlordane	5.201	6.087	370.3E6	1164.4E6	0.088	0.090
12)	4,4'-DDE	5.298	6.314	361.0E6	1217.2E6	0.090	0.091
13)	Endosulfan I	5.363	6.168	339.8E6	1098.0E6	0.089	0.091
14)	Dieldrin	5.656	6.547	391.5E6	1249.7E6	0.090	0.090
15)	Endrin	5.949	6.981	363.5E6	1148.7E6	0.091	0.091
16)	4,4'-DDD	6.053	7.149	296.9E6	1075.4E6	0.091	0.092
17)	Endo II	6.241	7.292	341.6E6	1084.8E6	0.090	0.091
18)	4,4'-DDT	6.427	7.618	316.1E6	1083.5E6	0.093	0.092
19)	End Aldehyde	6.814	7.801	261.2E6	851.3E6	0.090	0.093
20)	Methoxychlor	7.132	8.704	183.9E6	589.9E6	0.093	0.095
21)	Endo Sulfate	7.432	8.228	321.0E6	959.9E6	0.091	0.092
22)	End Ketone	7.835	9.060	397.6E6	1221.8E6	0.093	0.094

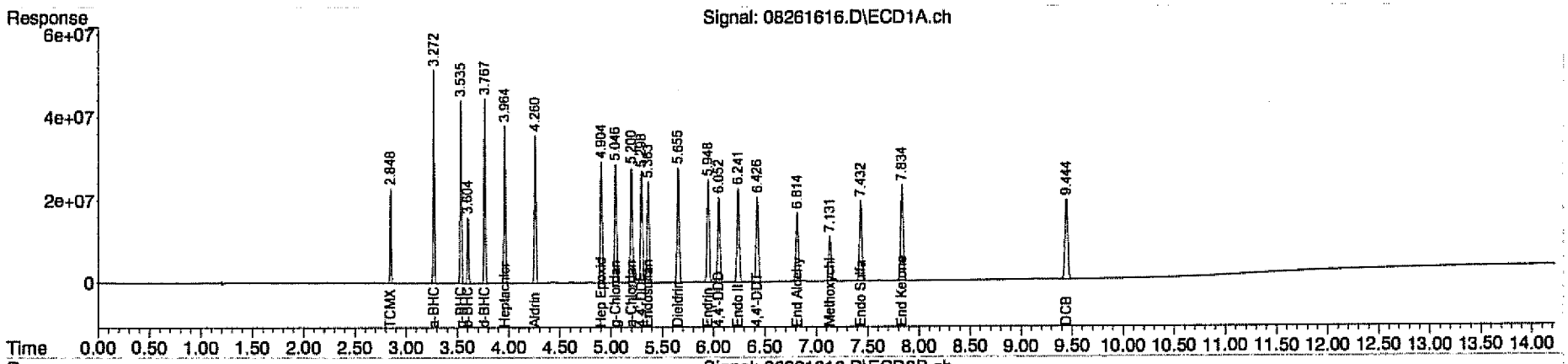
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

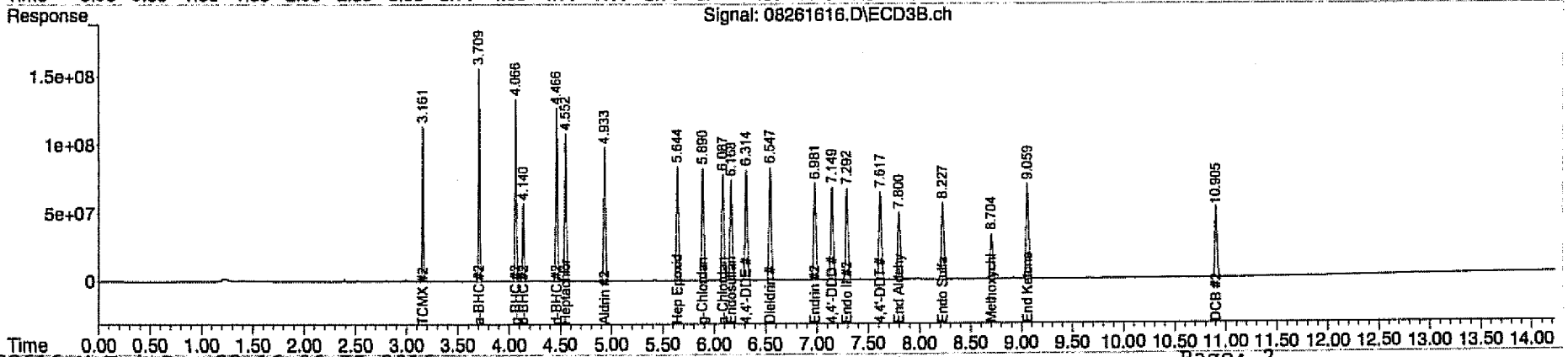
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\082616PE\
Data File : 08261616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 6:11 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICV
Misc : 100-8166
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 09:09:05 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Aug 29 09:08:06 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Data Path : H:\GC12\082616PE\
Data File : 08261616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 6:11 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICV
Misc : 100-8166
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 09:09:05 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Aug 29 09:08:06 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	TCMX	0.100	0.085	15.0	83	0.02
3	a-BHC	0.100	0.085	15.0	80	0.02
4	g-BHC	0.100	0.086	14.0	82	0.02
5	b-BHC	0.100	0.085	15.0	83	0.02
6	d-BHC	0.100	0.087	13.0	82	0.02
7	Heptachlor	0.100	0.087	13.0	83	0.02
8	Aldrin	0.100	0.087	13.0	83	0.02
9	Hep Epoxide	0.100	0.089	11.0	85	0.02
10	g-Chlordane	0.100	0.088	12.0	84	0.02
11	a-Chlordane	0.100	0.088	12.0	85	0.02
12	4,4'-DDE	0.100	0.090	10.0	85	0.02
13	Endosulfan I	0.100	0.089	11.0	86	0.02
14	Dieldrin	0.100	0.090	10.0	85	0.02
15	Endrin	0.100	0.091	9.0	85	0.02
16	4,4'-DDD	0.100	0.091	9.0	86	0.02
17	Endo II	0.100	0.090	10.0	86	0.03
18	4,4'-DDT	0.100	0.093	7.0	87	0.02
19	End Aldehyde	0.100	0.090	10.0	85	0.03
20	Methoxychlor	0.100	0.093	7.0	85	0.03
21	Endo Sulfate	0.100	0.091	9.0	86	0.03
22	End Ketone	0.100	0.093	7.0	90	0.03
23 S	DCB	0.100	0.098	2.0	95	0.03

Signal #2

1 S	TCMX	0.100	0.086	14.0	84	0.00
3	a-BHC	0.100	0.085	15.0	81	0.00
4	g-BHC	0.100	0.086	14.0	83	0.01
5	b-BHC	0.100	0.085	15.0	84	0.01
6	d-BHC	0.100	0.086	14.0	83	0.01
7	Heptachlor	0.100	0.089	11.0	84	0.01
8	Aldrin	0.100	0.088	12.0	84	0.01
9	Hep Epoxide	0.100	0.090	10.0	85	0.01
10	g-Chlordane	0.100	0.089	11.0	86	0.01
11	a-Chlordane	0.100	0.090	10.0	86	0.01
12	4,4'-DDE	0.100	0.091	9.0	87	0.01
13	Endosulfan I	0.100	0.091	9.0	87	0.01
14	Dieldrin	0.100	0.090	10.0	86	0.01
15	Endrin	0.100	0.091	9.0	87	0.01
16	4,4'-DDD	0.100	0.092	8.0	88	0.01

Evaluate Continuing Calibration Report

Data Path : H:\GC12\082616PE\
Data File : 08261616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 6:11 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICV
Misc : 100-8166
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 09:09:05 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Aug 29 09:08:06 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
17	Endo II	0.100	0.091	9.0	88	0.01
18	4,4'-DDT	0.100	0.092	8.0	88	0.01
19	End Aldehyde	0.100	0.093	7.0	89	0.01
20	Methoxychlor	0.100	0.095	5.0	89	0.01
21	Endo Sulfate	0.100	0.092	8.0	88	0.01
22	End Ketone	0.100	0.094	6.0	90	0.02
23 S	DCB	0.100	0.097	3.0	95	0.01

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-2.92#

Signal #2

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GC12\082616PE\
Data File : 08261616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 6:11 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICV
Misc : 100-8166
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 09:09:05 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Aug 29 09:08:06 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	2.051	1.745 E9	14.9	83#	0.02
3		a-BHC	5.056	4.277 E9	15.4#	80#	0.02
4		g-BHC	4.694	4.025 E9	14.3	82#	0.02
5		b-BHC	1.785	1.510 E9	15.4#	83#	0.02
6		d-BHC	4.872	4.248 E9	12.8	82#	0.02
7		Heptachlor	4.578	3.981 E9	13.0	83#	0.02
8		Aldrin	4.571	3.987 E9	12.8	83#	0.02
9		Hep Epoxide	4.140	3.679 E9	11.1	85	0.02
10		g-Chlordane	4.217	3.726 E9	11.6	84#	0.02
11		a-Chlordane	4.208	3.703 E9	12.0	85	0.02
12		4,4'-DDE	3.999	3.610 E9	9.7	85	0.02
13		Endosulfan I	3.801	3.398 E9	10.6	86	0.02
14		Dieldrin	4.354	3.915 E9	10.1	85	0.02
15		Endrin	3.990	3.635 E9	8.9	85#	0.02
16		4,4'-DDD	3.251	2.969 E9	8.7	86	0.02
17		Endo II	3.781	3.416 E9	9.7	86	0.03
18		4,4'-DDT	3.410	3.161 E9	7.3	87	0.02
19		End Aldehyde	2.905	2.612 E9	10.1	85	0.03
20		Methoxychlor	1.973	1.839 E9	6.8	85	0.03
21		Endo Sulfate	3.533	3.210 E9	9.1	86	0.03
22		End Ketone	4.269	3.976 E9	6.9	90	0.03
23	S	DCB	3.726	3.648 E9	2.1	95	0.03

Signal #2

1	S	TCMX	10.803	9.273 E9	14.2	84#	0.00
3		a-BHC	17.367	14.677 E9	15.5#	81#	0.00
4		g-BHC	15.843	13.569 E9	14.4	83#	0.01
5		b-BHC	7.266	6.152 E9	15.3#	84#	0.01
6		d-BHC	16.231	14.016 E9	13.6	83#	0.01
7		Heptachlor	14.852	12.984 E9	12.6	84#	0.01
8		Aldrin	14.360	12.541 E9	12.7	84#	0.01
9		Hep Epoxide	13.578	11.961 E9	11.9	85	0.01
10		g-Chlordane	13.662	12.010 E9	12.1	86	0.01
11		a-Chlordane	13.159	11.644 E9	11.5	86	0.01
12		4,4'-DDE	13.405	12.172 E9	9.2	87	0.01
13		Endosulfan I	12.259	10.980 E9	10.4	87	0.01
14		Dieldrin	13.975	12.497 E9	10.6	86	0.01
15		Endrin	12.628	11.487 E9	9.0	87	0.01
16		4,4'-DDD	11.771	10.754 E9	8.6	88	0.01

Evaluate Continuing Calibration Report

Data Path : H:\GC12\082616PE\
Data File : 08261616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 26 Aug 2016 6:11 pm
Operator : BTM
Sample : PEST 0.1 UG/ML ICV
Misc : 100-8166
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Aug 29 09:09:05 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Aug 29 09:08:06 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	Endo II	12.019	10.848 E9	9.7	88	0.01
18	4,4'-DDT	11.717	10.835 E9	7.5	88	0.01
19	End Aldehyde	9.263	8.513 E9	8.1	89	0.01
20	Methoxychlor	6.362	5.899 E9	7.3	89	0.01
21	Endo Sulfate	10.582	9.599 E9	9.3	88	0.01
22	End Ketone	13.199	12.218 E9	7.4	90	0.02
23 S	DCB	7.922	7.650 E9	3.4	95	0.01

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-2.92#

Signal #2

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

```
                          2016 Aug 26 1719 Sequence Log
    Starting sequence Fri Aug 26 13:45:19 2016

  Instrument Name: GC12
    Sequence File: C:\msdchem\2\sequence\082616PE.s
          Comment: PESTICIDES
         Operator: BTM
        Data Path: C:\MSDCHEM\2\DATA\082616PE\
      Method Path: C:\MSDCHEM\2\METHODS\

    Line Type        Vial  DataFile  Method    Sample Name
    ---------------------------------------------------------------------
      1) Sample        99  cond
          Datafile         08261601
          Method           GC12_PEST3
      2) Sample       100  cond
          Datafile         08261602
          Method           GC12_PEST3
      3) Sample         1  BLANK
          Datafile         08261603
          Method           GC12_PEST3
      4) Sample         2  PEST DEG
          Datafile         08261604
          Method           GC12_PEST3
      5) Sample         1  BLANK
          Datafile         08261605
          Method           GC12_PEST3
      6) Sample       101  PEST  0.01 UG/ML ICAL
          Datafile         08261606
          Method           GC12_PEST3
      7) Sample       102  PEST  0.02 UG/ML ICAL
          Datafile         08261607
          Method           GC12_PEST3
      8) Sample       103  PEST  0.03 UG/ML ICAL
          Datafile         08261608
          Method           GC12_PEST3
      9) Sample       104  PEST  0.05 UG/ML ICAL
          Datafile         08261609
          Method           GC12_PEST3
    Sequence Table edit performed Fri Aug 26 16:22:31 2016
     10) Sample       105  PEST  0.08 UG/ML ICAL
          Datafile         08261610
          Method           GC12_PEST3
    Sequence Table edit performed Fri Aug 26 16:46:37 2016
     11) Sample       105  PEST  0.08 UG/ML ICAL
          Datafile         08261611
          Method           GC12_PEST3
     12) Sample       106  PEST  0.1 UG/ML  ICAL
          Datafile         08261612
          Method           GC12_PEST3

Fri Aug 26 17:19:17 2016
    Fatal sequence error detected.


    Data Analysis: No entries found in the quantitation database

      C:\MSDCHEM\2\DATA\082616PE\2016 Aug 26 1345 Quality Log.LOG
      C:\MSDCHEM\2\DATA\082616PE\2016 Aug 26 1345 Sequence Log .LOG

Resuming sequence Fri Aug 26 17:19:54 2016

  Instrument Name: GC12
    Sequence File: C:\msdchem\2\sequence\082616PE.s
```

2016 Aug 26 1719 Sequence Log

Comment: PESTICIDES
Operator: BTM
Data Path: C:\MSDCHEM\2\DATA\082616PE\
Method Path: C:\MSDCHEM\2\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
13)	Sample	107	PEST	0.15 UG/ML	ICAL
	Datafile		08261613		
	Method		GC12_PEST3		
14)	Sample	108	PEST	0.2 UG/ML	ICAL
	Datafile		08261614		
	Method		GC12_PEST3		
15)	Sample	109	PEST	0.5 UG/ML	ICAL
	Datafile		08261615		
	Method		GC12_PEST3		
16)	Sample	110	PEST	0.1 UG/ML	ICV
	Datafile		08261616		
	Method		GC12_PEST3		
17)	Sample	106	PEST	0.1 UG/ML	CCV
	Datafile		08261617		
	Method		GC12_PEST3		
18)	Sample	4	CHLOR	1.0 UG/ML	
	Datafile		08261618		
	Method		GC12_PEST3		
19)	Sample	5	TOX	5.0 UG/ML	
	Datafile		08261619		
	Method		GC12_PEST3		
20)	Sample	11	PBLKW1-90598		
	Datafile		08261620		
	Method		GC12_PEST3		
21)	Sample	12	PLCSW1-90598		
	Datafile		08261621		
	Method		GC12_PEST3		
22)	Sample	13	PLCSDW1-90598		
	Datafile		08261622		
	Method		GC12_PEST3		
23)	Sample	14	PLCSW2-90598		
	Datafile		08261623		
	Method		GC12_PEST3		
24)	Sample	15	PLCSW3-90598		
	Datafile		08261624		
	Method		GC12_PEST3		
25)	Sample	21	PBLKS1-90623		
	Datafile		08261625		
	Method		GC12_PEST3		
26)	Sample	22	PLCSS1-90623		
	Datafile		08261626		
	Method		GC12_PEST3		
27)	Sample	106	PEST	0.1 UG/ML	CCV
	Datafile		08261627		
	Method		GC12_PEST3		
28)	Sample	106	PEST	0.1 UG/ML	CCV
	Datafile		08261628		
	Method		GC12_PEST3		
29)	Sample	23	16081461-01C	DF2	
	Datafile		08261629		
	Method		GC12_PEST3		
30)	Sample	24	16081461-02C	DF2	
	Datafile		08261630		
	Method		GC12_PEST3		
31)	Sample	25	16081461-03C	DF2	
	Datafile		08261631		

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:27 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:08:49 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Sep 12 14:37:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	S	TCMX	0.100	0.068	32.0#	66	-0.02
3		a-BHC	0.100	0.094	6.0	89	-0.02
4		g-BHC	0.100	0.097	3.0	93	-0.02
5		b-BHC	0.100	0.089	11.0	88	-0.02
6		d-BHC	0.100	0.101	-1.0	95	-0.02
7		Heptachlor	0.100	0.101	-1.0	97	-0.03
8		Aldrin	0.100	0.097	3.0	93	-0.03
9		Hep Epoxide	0.100	0.099	1.0	95	-0.03
10		g-Chlordane	0.100	0.101	-1.0	96	-0.03
11		a-Chlordane	0.100	0.101	-1.0	98	-0.03
12		4,4'-DDE	0.100	0.102	-2.0	96	-0.03
13		Endosulfan I	0.100	0.104	-4.0	100	-0.04
14		Dieldrin	0.100	0.104	-4.0	98	-0.04
15		Endrin	0.100	0.110	-10.0	102	-0.04
16		4,4'-DDD	0.100	0.100	0.0	95	-0.04
17		Endo II	0.100	0.107	-7.0	102	-0.04
18		4,4'-DDT	0.100	0.101	-1.0	94	-0.04
19		End Aldehyde	0.100	0.109	-9.0	104	-0.04
20		Methoxychlor	0.100	0.102	-2.0	93	-0.04
21		Endo Sulfate	0.100	0.106	-6.0	101	-0.05
22		End Ketone	0.100	0.110	-10.0	106	-0.05
23	S	DCB	0.100	0.116	-16.0#	113	-0.04

Signal #2

1	S	TCMX	0.100	0.096	4.0	94	-0.01
3		a-BHC	0.100	0.096	4.0	92	-0.02
4		g-BHC	0.100	0.100	0.0	95	-0.02
5		b-BHC	0.100	0.099	1.0	98	-0.02
6		d-BHC	0.100	0.103	-3.0	99	-0.02
7		Heptachlor	0.100	0.102	-2.0	96	-0.02
8		Aldrin	0.100	0.101	-1.0	95	-0.02
9		Hep Epoxide	0.100	0.104	-4.0	98	-0.03
10		g-Chlordane	0.100	0.106	-6.0	101	-0.03
11		a-Chlordane	0.100	0.103	-3.0	98	-0.03
12		4,4'-DDE	0.100	0.099	1.0	94	-0.03
13		Endosulfan I	0.100	0.105	-5.0	100	-0.03
14		Dieldrin	0.100	0.105	-5.0	100	-0.03
15		Endrin	0.100	0.108	-8.0	102	-0.03
16		4,4'-DDD	0.100	0.108	-8.0	102	-0.03

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:27 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:08:49 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Sep 12 14:37:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
17	Endo II	0.100	0.111	-11.0	105	-0.03
18	4,4'-DDT	0.100	0.103	-3.0	98	-0.03
19	End Aldehyde	0.100	0.115	-15.0	109	-0.04
20	Methoxychlor	0.100	0.112	-12.0	104	-0.04
21	Endo Sulfate	0.100	0.113	-13.0	107	-0.04
22	End Ketone	0.100	0.107	-7.0	102	-0.04
23 S	DCB	0.100	0.113	-13.0	112	-0.03

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-2.92#

Signal #2

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:27 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:08:49 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Sep 12 14:37:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	2.051	1.387 E9	32.4#	66#	-0.02
3		a-BHC	5.056	4.773 E9	5.6	89	-0.02
4		g-BHC	4.694	4.560 E9	2.9	93	-0.02
5		b-BHC	1.785	1.597 E9	10.5	88	-0.02
6		d-BHC	4.872	4.908 E9	-0.7	95	-0.02
7		Heptachlor	4.578	4.641 E9	-1.4	97	-0.03
8		Aldrin	4.571	4.455 E9	2.5	93	-0.03
9		Hep Epoxide	4.140	4.104 E9	0.9	95	-0.03
10		g-Chlordane	4.217	4.252 E9	-0.8	96	-0.03
11		a-Chlordane	4.208	4.269 E9	-1.4	98	-0.03
12		4,4'-DDE	3.999	4.077 E9	-2.0	96	-0.03
13		Endosulfan I	3.801	3.950 E9	-3.9	100	-0.04
14		Dieldrin	4.354	4.524 E9	-3.9	98	-0.04
15		Endrin	3.990	4.382 E9	-9.8	102	-0.04
16		4,4'-DDD	3.251	3.266 E9	-0.5	95	-0.04
17		Endo II	3.781	4.050 E9	-7.1	102	-0.04
18		4,4'-DDT	3.410	3.428 E9	-0.5	94	-0.04
19		End Aldehyde	2.905	3.180 E9	-9.5	104	-0.04
20		Methoxychlor	1.973	2.016 E9	-2.2	93	-0.04
21		Endo Sulfate	3.533	3.739 E9	-5.8	101	-0.05
22		End Ketone	4.269	4.702 E9	-10.1	106	-0.05
23	S	DCB	3.726	4.320 E9	-15.9#	113	-0.04

Signal #2

1	S	TCMX	10.803	10.384 E9	3.9	94	-0.01
3		a-BHC	17.367	16.598 E9	4.4	92	-0.02
4		g-BHC	15.843	15.632 E9	1.3	95	-0.02
5		b-BHC	7.266	7.172 E9	1.3	98	-0.02
6		d-BHC	16.231	16.735 E9	-3.1	99	-0.02
7		Heptachlor	14.852	14.831 E9	0.1	96	-0.02
8		Aldrin	14.360	14.210 E9	1.0	95	-0.02
9		Hep Epoxide	13.578	13.678 E9	-0.7	98	-0.03
10		g-Chlordane	13.662	14.137 E9	-3.5	101	-0.03
11		a-Chlordane	13.159	13.238 E9	-0.6	98	-0.03
12		4,4'-DDE	13.405	13.116 E9	2.2	94	-0.03
13		Endosulfan I	12.259	12.668 E9	-3.3	100	-0.03
14		Dieldrin	13.975	14.571 E9	-4.3	100	-0.03
15		Endrin	12.628	13.538 E9	-7.2	102	-0.03
16		4,4'-DDD	11.771	12.509 E9	-6.3	102	-0.03

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:27 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:08:49 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Sep 12 14:37:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	Endo II	12.019	13.070 E9	-8.7	105	-0.03
18	4,4'-DDT	11.717	12.096 E9	-3.2	98	-0.03
19	End Aldehyde	9.263	10.401 E9	-12.3	109	-0.04
20	Methoxychlor	6.362	6.830 E9	-7.4	104	-0.04
21	Endo Sulfate	10.582	11.682 E9	-10.4	107	-0.04
22	End Ketone	13.199	13.848 E9	-4.9	102	-0.04
23 S	DCB	7.922	8.978 E9	-13.3	112	-0.03

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-2.92#

Signal #2

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:27 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:08:49 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Sep 12 14:37:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1)	S TCMX	2.816	3.139	138.7E6	1038.4E6	0.068	0.096 #
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	68.00%#	96.00%#
23)	S DCB	9.374	10.866	432.0E6	897.8E6	0.116m	0.113
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	116.00%#	113.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
3)	a-BHC	3.233	3.681f	477.3E6	1659.8E6	0.094	0.096
4)	g-BHC	3.493	4.035f	456.0E6	1563.2E6	0.097	0.100
5)	b-BHC	3.562	4.109f	159.7E6	717.2E6	0.089	0.099
6)	d-BHC	3.723f	4.432f	490.8E6	1673.5E6	0.101	0.103
7)	Heptachlor	3.919f	4.518f	464.1E6	1483.1E6	0.101	0.102
8)	Aldrin	4.212f	4.897f	445.5E6	1421.0E6	0.097	0.101
9)	Hep Epoxide	4.850f	5.602f	410.4E6	1367.8E6	0.099	0.104
10)	g-Chlordane	4.991f	5.848f	425.2E6	1413.7E6	0.101	0.106
11)	a-Chlordane	5.144f	6.043f	426.9E6	1323.8E6	0.101	0.103
12)	4,4'-DDE	5.242f	6.272f	407.7E6	1311.6E6	0.102	0.099
13)	Endosulfan I	5.304f	6.124f	395.0E6	1266.8E6	0.104	0.105
14)	Dieldrin	5.595f	6.502f	452.4E6	1457.1E6	0.104	0.105
15)	Endrin	5.886f	6.934f	438.2E6	1353.8E6	0.110	0.108
16)	4,4'-DDD	5.991f	7.102f	326.6E6	1250.9E6	0.100	0.108
17)	Endo II	6.176f	7.242f	405.0E6	1307.0E6	0.107	0.111
18)	4,4'-DDT	6.363f	7.569f	342.8E6	1209.6E6	0.101	0.103
19)	End Aldehyde	6.744f	7.749f	318.0E6	1040.1E6	0.109	0.115
20)	Methoxychlor	7.067	8.653	201.6E6	683.0E6	0.102	0.112
21)	Endo Sulfate	7.360f	8.176f	373.9E6	1168.2E6	0.106	0.113
22)	End Ketone	7.761f	9.005f	470.2E6	1384.8E6	0.110	0.107

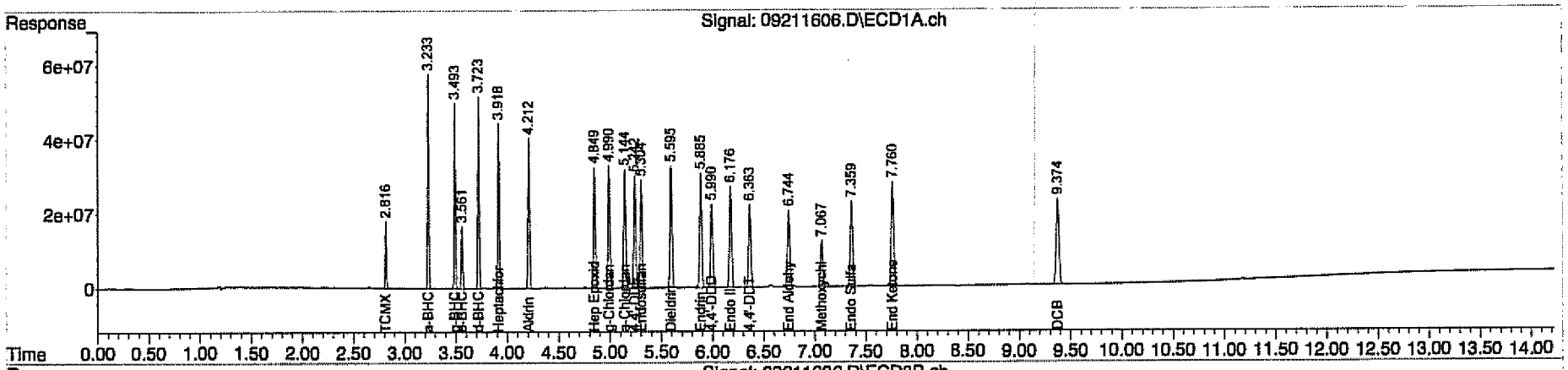
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

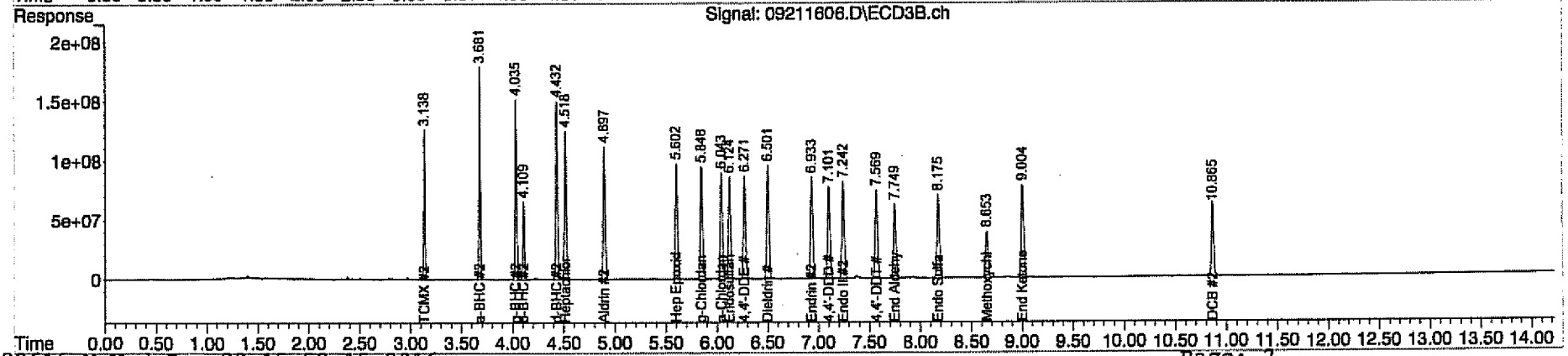
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:27 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:08:49 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Mon Sep 12 14:37:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:45 pm
Operator : BTM
Sample : CHLOR 1.0 UG/ML
Misc : 100-8277
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 11:37:15 2016
Quant Method : C:\msdchem\2\methods\CH083016.M
Quant Title :
QLast Update : Wed Sep 21 13:44:51 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds							
1) S	TCMX	2.825	3.145	67423790	487.0E6	0.052m	0.053
8) S	DCB	9.378	10.867	219.8E6	440.8E6	0.052	0.050
Target Compounds							
2) L	Chlordane	3.854	4.363	69178466	237.5E6	1.066	1.023
3) L	Chlordane...	3.928	4.524	204.4E6	707.2E6	1.064	1.034
4) L	Chlordane...	4.786	5.558	62773470	337.6E6	0.937m	1.041
5) L	Chlordane...	4.999	5.851	397.4E6	1190.0E6	1.019m	0.954m
6) L	Chlordane...	5.133	5.976	707.9E6	1433.0E6	1.017m	0.974m
7) L	Chlordane...	5.942	7.056	102.2E6	403.0E6	0.954m	1.022

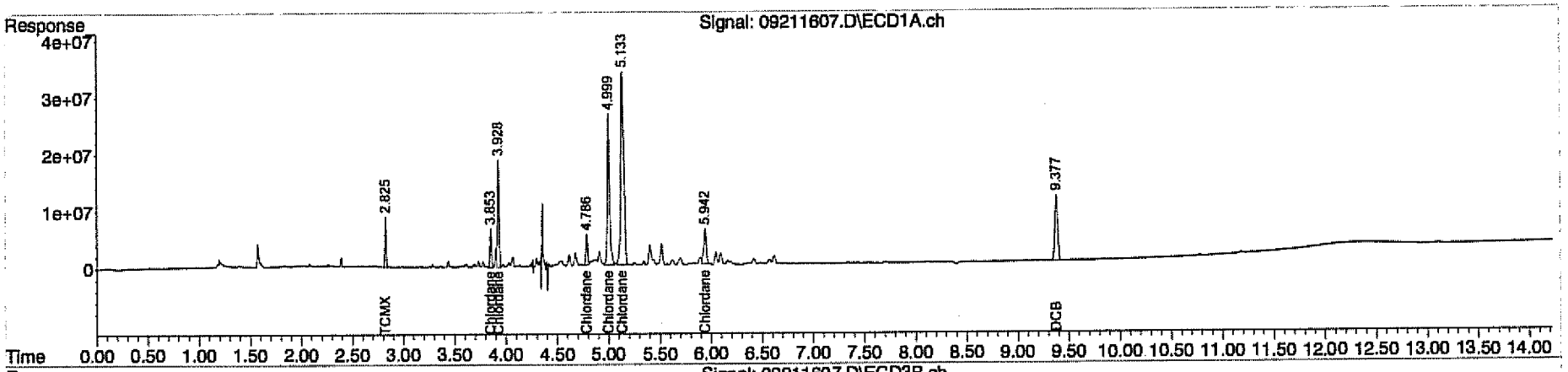
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

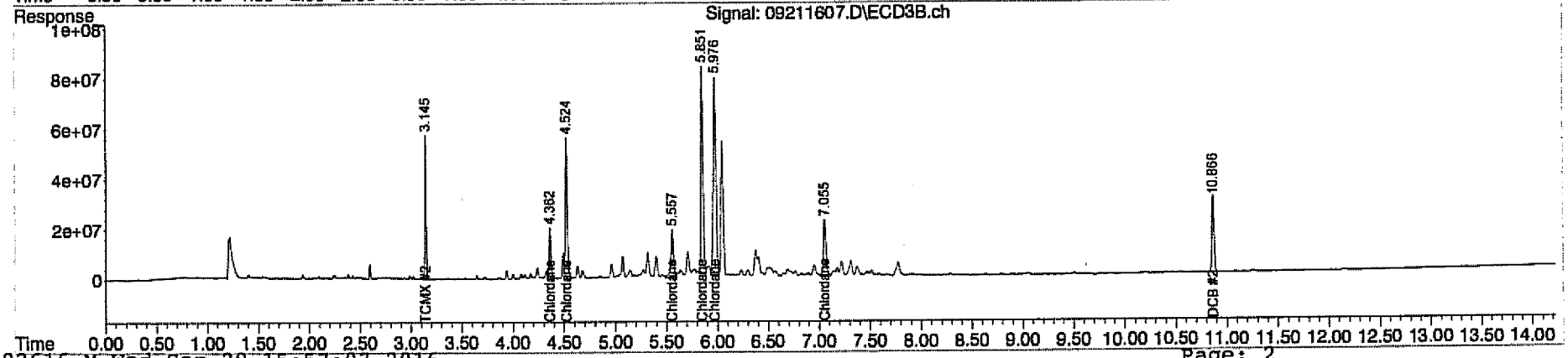
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 12:45 pm
Operator : BTM
Sample : CHLOR 1.0 UG/ML
Misc : 100-8277
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 11:37:15 2016
Quant Method : C:\msdchem\2\methods\CH083016.M
Quant Title :
QLast Update : Wed Sep 21 13:44:51 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211608.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:03 pm
Operator : BTM
Sample : TOX 5.0 UG/ML
Misc : 100-8361
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 11:38:27 2016
Quant Method : C:\msdchem\2\methods\TX083016.M
Quant Title : Herbicides by 8151A
QLast Update : Wed Sep 21 13:33:23 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2
		System Monitoring Compounds						
1)	S	TCMX	2.823	3.142	67367227	480.3E6	0.061	0.060m
3)	S	DCB	9.378	10.866	217.6E6	452.5E6	0.055	0.055
		Target Compounds						
2)	T	Toxaphene	7.219	7.370	11016.0E6	43926.1E6	5.897m	5.858m

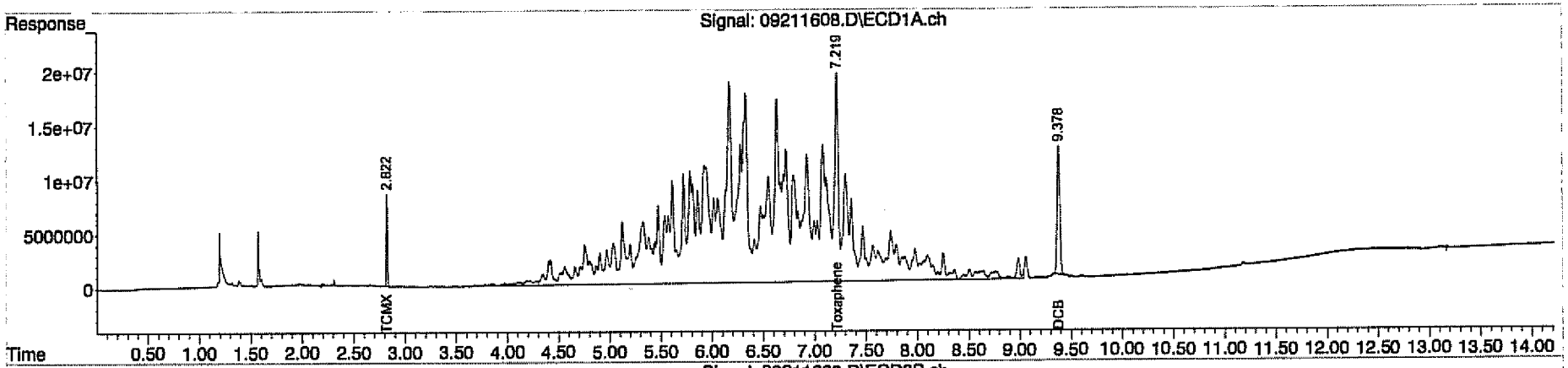
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

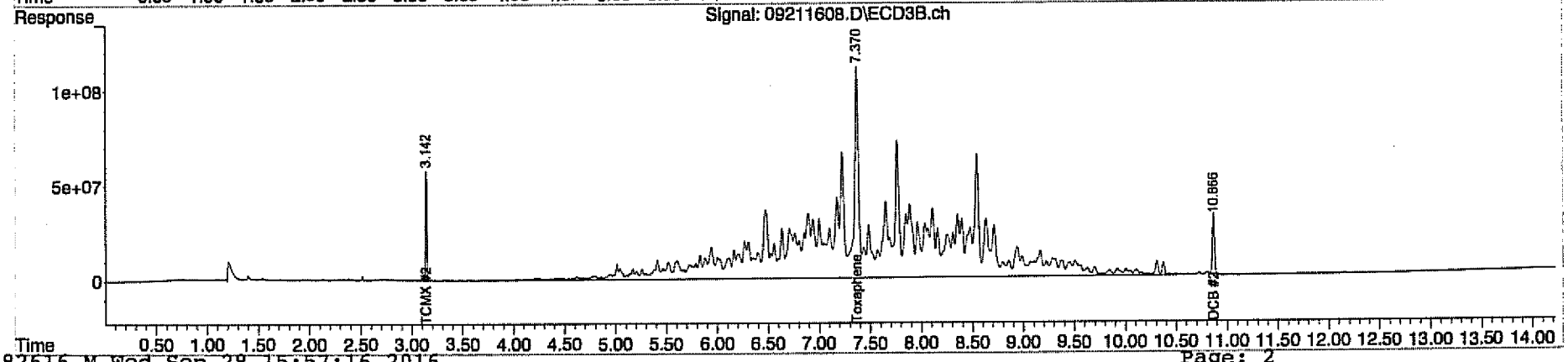
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211608.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:03 pm
Operator : BTM
Sample : TOX 5.0 UG/ML
Misc : 100-8361
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 11:38:27 2016
Quant Method : C:\msdchem\2\methods\TX083016.M
Quant Title : Herbicides by 8151A
QLast Update : Wed Sep 21 13:33:23 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:31 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:36 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	TCMX	0.100	0.069	31.0#	68	-0.02
3	a-BHC	0.100	0.096	4.0	91	-0.02
4	g-BHC	0.100	0.100	0.0	95	-0.02
5	b-BHC	0.100	0.094	6.0	93	-0.02
6	d-BHC	0.100	0.105	-5.0	99	-0.02
7	Heptachlor	0.100	0.104	-4.0	99	-0.03
8	Aldrin	0.100	0.101	-1.0	96	-0.03
9	Hep Epoxide	0.100	0.101	-1.0	96	-0.03
10	g-Chlordane	0.100	0.103	-3.0	98	-0.03
11	a-Chlordane	0.100	0.105	-5.0	101	-0.03
12	4,4'-DDE	0.100	0.104	-4.0	98	-0.03
13	Endosulfan I	0.100	0.106	-6.0	101	-0.04
14	Dieldrin	0.100	0.105	-5.0	99	-0.04
15	Endrin	0.100	0.111	-11.0	103	-0.04
16	4,4'-DDD	0.100	0.102	-2.0	96	-0.04
17	Endo II	0.100	0.108	-8.0	103	-0.04
18	4,4'-DDT	0.100	0.103	-3.0	96	-0.04
19	End Aldehyde	0.100	0.110	-10.0	104	-0.04
20	Methoxychlor	0.100	0.102	-2.0	93	-0.04
21	Endo Sulfate	0.100	0.106	-6.0	101	-0.05
22	End Ketone	0.100	0.111	-11.0	107	-0.05
23 S	DCB	0.100	0.115	-15.0	112	-0.04

Signal #2

1 S	TCMX	0.100	0.097	3.0	95	-0.02
3	a-BHC	0.100	0.098	2.0	94	-0.02
4	g-BHC	0.100	0.103	-3.0	98	-0.02
5	b-BHC	0.100	0.103	-3.0	102	-0.02
6	d-BHC	0.100	0.107	-7.0	102	-0.03
7	Heptachlor	0.100	0.105	-5.0	98	-0.03
8	Aldrin	0.100	0.104	-4.0	98	-0.03
9	Hep Epoxide	0.100	0.107	-7.0	101	-0.03
10	g-Chlordane	0.100	0.111	-11.0	105	-0.03
11	a-Chlordane	0.100	0.107	-7.0	101	-0.03
12	4,4'-DDE	0.100	0.100	0.0	95	-0.03
13	Endosulfan I	0.100	0.109	-9.0	103	-0.03
14	Dieldrin	0.100	0.108	-8.0	103	-0.04
15	Endrin	0.100	0.110	-10.0	104	-0.04
16	4,4'-DDD	0.100	0.109	-9.0	103	-0.04

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:31 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:36 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
17	Endo II	0.100	0.112	-12.0	107	-0.04
18	4,4'-DDT	0.100	0.105	-5.0	100	-0.04
19	End Aldehyde	0.100	0.116	-16.0#	109	-0.04
20	Methoxychlor	0.100	0.113	-13.0	105	-0.04
21	Endo Sulfate	0.100	0.113	-13.0	107	-0.04
22	End Ketone	0.100	0.108	-8.0	103	-0.04
23 S	DCB	0.100	0.115	-15.0	113	-0.03

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-2.92#

Signal #2

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:31 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:36 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	2.051	1.413 E9	31.1#	68#	-0.02
3		a-BHC	5.056	4.855 E9	4.0	91	-0.02
4		g-BHC	4.694	4.677 E9	0.4	95	-0.02
5		b-BHC	1.785	1.680 E9	5.9	93	-0.02
6		d-BHC	4.872	5.134 E9	-5.4	99	-0.02
7		Heptachlor	4.578	4.765 E9	-4.1	99	-0.03
8		Aldrin	4.571	4.596 E9	-0.5	96	-0.03
9		Hep Epoxide	4.140	4.168 E9	-0.7	96	-0.03
10		g-Chlordane	4.217	4.339 E9	-2.9	98	-0.03
11		a-Chlordane	4.208	4.404 E9	-4.7	101	-0.03
12		4,4'-DDE	3.999	4.148 E9	-3.7	98	-0.03
13		Endosulfan I	3.801	4.013 E9	-5.6	101	-0.04
14		Dieldrin	4.354	4.571 E9	-5.0	99	-0.04
15		Endrin	3.990	4.415 E9	-10.7	103	-0.04
16		4,4'-DDD	3.251	3.310 E9	-1.8	96	-0.04
17		Endo II	3.781	4.071 E9	-7.7	103	-0.04
18		4,4'-DDT	3.410	3.511 E9	-3.0	96	-0.04
19		End Aldehyde	2.905	3.184 E9	-9.6	104	-0.04
20		Methoxychlor	1.973	2.015 E9	-2.1	93	-0.04
21		Endo Sulfate	3.533	3.741 E9	-5.9	101	-0.05
22		End Ketone	4.269	4.727 E9	-10.7	107	-0.05
23	S	DCB	3.726	4.287 E9	-15.1#	112	-0.04

Signal #2

1	S	TCMX	10.803	10.508 E9	2.7	95	-0.02
3		a-BHC	17.367	17.003 E9	2.1	94	-0.02
4		g-BHC	15.843	16.067 E9	-1.4	98	-0.02
5		b-BHC	7.266	7.449 E9	-2.5	102	-0.02
6		d-BHC	16.231	17.362 E9	-7.0	102	-0.03
7		Heptachlor	14.852	15.218 E9	-2.5	98	-0.03
8		Aldrin	14.360	14.560 E9	-1.4	98	-0.03
9		Hep Epoxide	13.578	14.109 E9	-3.9	101	-0.03
10		g-Chlordane	13.662	14.698 E9	-7.6	105	-0.03
11		a-Chlordane	13.159	13.640 E9	-3.7	101	-0.03
12		4,4'-DDE	13.405	13.231 E9	1.3	95	-0.03
13		Endosulfan I	12.259	13.029 E9	-6.3	103	-0.03
14		Dieldrin	13.975	14.955 E9	-7.0	103	-0.04
15		Endrin	12.628	13.804 E9	-9.3	104	-0.04
16		4,4'-DDD	11.771	12.673 E9	-7.7	103	-0.04

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:31 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:36 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	Endo II	12.019	13.220 E9	-10.0	107	-0.04
18	4,4'-DDT	11.717	12.354 E9	-5.4	100	-0.04
19	End Aldehyde	9.263	10.460 E9	-12.9	109	-0.04
20	Methoxychlor	6.362	6.909 E9	-8.6	105	-0.04
21	Endo Sulfate	10.582	11.698 E9	-10.5	107	-0.04
22	End Ketone	13.199	13.952 E9	-5.7	103	-0.04
23 S	DCB	7.922	9.101 E9	-14.9	113	-0.03

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-2.92#

Signal #2

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:31 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:36 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	TCMX	2.816	3.137	141.3E6	1050.8E6	0.069	0.097	#
Spiked Amount		0.100 Range	0 -	0 Recovery	=	69.00%#	97.00%#	
23) S	DCB	9.372	10.861	428.7E6	910.1E6	0.115	0.115	
Spiked Amount		0.100 Range	0 -	0 Recovery	=	115.00%#	115.00%#	
	Target Compounds							
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
3)	a-BHC	3.233	3.680	485.5E6	1700.3E6	0.096	0.098	
4)	g-BHC	3.493	4.034	467.7E6	1606.7E6	0.100	0.103	
5)	b-BHC	3.561	4.107	168.0E6	744.9E6	0.094	0.103	
6)	d-BHC	3.723	4.430	513.4E6	1736.2E6	0.105	0.107	
7)	Heptachlor	3.918	4.516	476.5E6	1521.8E6	0.104	0.105	
8)	Aldrin	4.211	4.894	459.6E6	1456.0E6	0.101	0.104	
9)	Hep Epoxide	4.849	5.599	416.8E6	1410.9E6	0.101	0.107	
10)	g-Chlordane	4.990	5.845	433.9E6	1469.8E6	0.103	0.111	
11)	a-Chlordane	5.144	6.040	440.4E6	1364.0E6	0.105	0.107	
12)	4,4'-DDE	5.241	6.268	414.8E6	1323.1E6	0.104	0.100	
13)	Endosulfan I	5.304	6.121	401.3E6	1302.9E6	0.106	0.109	
14)	Dieldrin	5.594	6.498	457.1E6	1495.5E6	0.105	0.108	
15)	Endrin	5.885	6.930	441.5E6	1380.4E6	0.111	0.110	
16)	4,4'-DDD	5.990	7.098	331.0E6	1267.3E6	0.102	0.109	
17)	Endo II	6.175	7.239	407.1E6	1322.0E6	0.108	0.112	
18)	4,4'-DDT	6.363	7.566	351.1E6	1235.4E6	0.103	0.105	
19)	End Aldehyde	6.743	7.745	318.4E6	1046.0E6	0.110	0.116	
20)	Methoxychlor	7.066	8.649	201.5E6	690.9E6	0.102	0.113	
21)	Endo Sulfate	7.358	8.172	374.1E6	1169.8E6	0.106	0.113	
22)	End Ketone	7.759	9.000	472.7E6	1395.2E6	0.111	0.108	

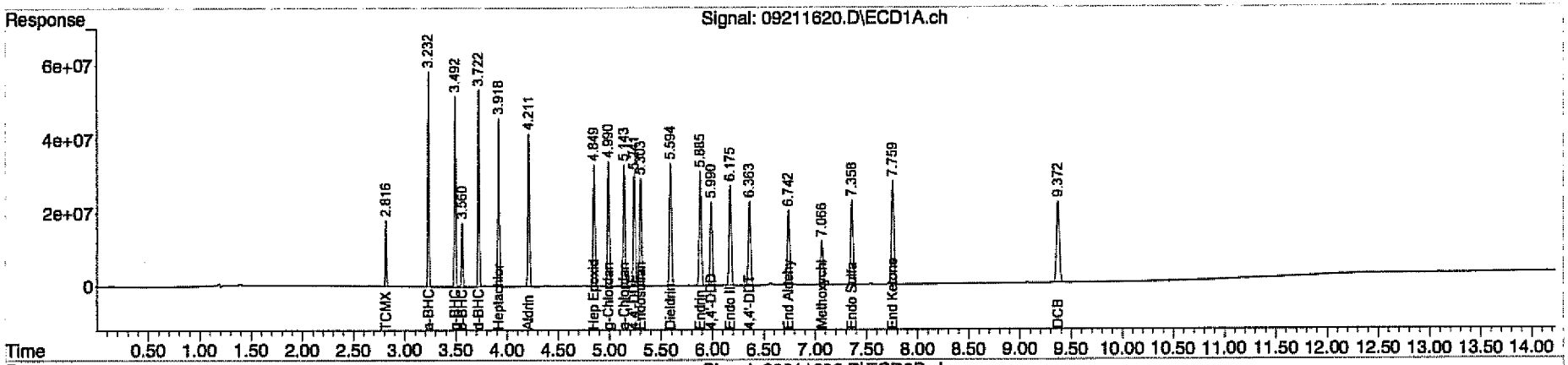
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

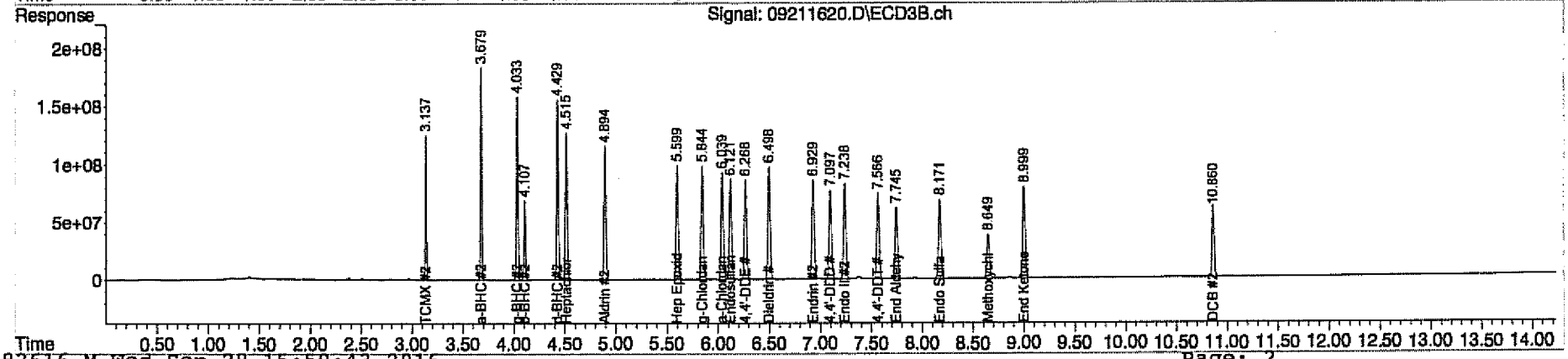
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:31 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:36 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:49 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:39 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	TCMX	0.100	0.066	34.0#	64	0.00
3	a-BHC	0.100	0.091	9.0	86	-0.01
4	g-BHC	0.100	0.093	7.0	89	-0.01
5	b-BHC	0.100	0.087	13.0	86	-0.01
6	d-BHC	0.100	0.096	4.0	90	-0.01
7	Heptachlor	0.100	0.095	5.0	91	-0.02
8	Aldrin	0.100	0.093	7.0	89	-0.02
9	Hep Epoxide	0.100	0.094	6.0	90	-0.02
10	g-Chlordane	0.100	0.097	3.0	93	-0.02
11	a-Chlordane	0.100	0.101	-1.0	98	-0.02
12	4,4'-DDE	0.100	0.097	3.0	92	-0.02
13	Endosulfan I	0.100	0.099	1.0	95	-0.03
14	Dieldrin	0.100	0.098	2.0	93	-0.03
15	Endrin	0.100	0.103	-3.0	96	-0.03
16	4,4'-DDD	0.100	0.097	3.0	92	-0.03
17	Endo II	0.100	0.102	-2.0	98	-0.03
18	4,4'-DDT	0.100	0.096	4.0	90	-0.03
19	End Aldehyde	0.100	0.105	-5.0	99	-0.04
20	Methoxychlor	0.100	0.099	1.0	90	-0.03
21	Endo Sulfate	0.100	0.100	0.0	95	-0.04
22	End Ketone	0.100	0.107	-7.0	103	-0.04
23 S	DCB	0.100	0.115	-15.0	112	-0.04

Signal #2

1 S	TCMX	0.100	0.094	6.0	92	0.00
3	a-BHC	0.100	0.094	6.0	90	-0.01
4	g-BHC	0.100	0.097	3.0	93	-0.02
5	b-BHC	0.100	0.096	4.0	95	-0.02
6	d-BHC	0.100	0.100	0.0	95	-0.02
7	Heptachlor	0.100	0.098	2.0	93	-0.02
8	Aldrin	0.100	0.097	3.0	92	-0.02
9	Hep Epoxide	0.100	0.099	1.0	93	-0.03
10	g-Chlordane	0.100	0.104	-4.0	99	-0.03
11	a-Chlordane	0.100	0.099	1.0	94	-0.03
12	4,4'-DDE	0.100	0.093	7.0	88	-0.03
13	Endosulfan I	0.100	0.101	-1.0	96	-0.03
14	Dieldrin	0.100	0.100	0.0	96	-0.03
15	Endrin	0.100	0.103	-3.0	98	-0.03
16	4,4'-DDD	0.100	0.104	-4.0	99	-0.03

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:49 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:39 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
17	Endo II	0.100	0.107	-7.0	102	-0.03
18	4,4'-DDT	0.100	0.100	0.0	96	-0.03
19	End Aldehyde	0.100	0.111	-11.0	105	-0.04
20	Methoxychlor	0.100	0.109	-9.0	101	-0.04
21	Endo Sulfate	0.100	0.108	-8.0	103	-0.04
22	End Ketone	0.100	0.104	-4.0	99	-0.04
23 S	DCB	0.100	0.115	-15.0	113	-0.03

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-2.92#

Signal #2

2	Hexachlorobenzene	0.100	0.000	100.0#	0	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:49 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:39 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	TCMX	2.051	1.349 E9	34.2#	64#	0.00
3		a-BHC	5.056	4.598 E9	9.1	86	-0.01
4		g-BHC	4.694	4.359 E9	7.1	89	-0.01
5		b-BHC	1.785	1.556 E9	12.8	86	-0.01
6		d-BHC	4.872	4.662 E9	4.3	90	-0.01
7		Heptachlor	4.578	4.366 E9	4.6	91	-0.02
8		Aldrin	4.571	4.262 E9	6.8	89	-0.02
9		Hep Epoxide	4.140	3.872 E9	6.5	90	-0.02
10		g-Chlordane	4.217	4.105 E9	2.7	93	-0.02
11		a-Chlordane	4.208	4.251 E9	-1.0	98	-0.02
12		4,4'-DDE	3.999	3.889 E9	2.8	92	-0.02
13		Endosulfan I	3.801	3.773 E9	0.7	95	-0.03
14		Dieldrin	4.354	4.281 E9	1.7	93	-0.03
15		Endrin	3.990	4.094 E9	-2.6	96	-0.03
16		4,4'-DDD	3.251	3.144 E9	3.3	92	-0.03
17		Endo II	3.781	3.863 E9	-2.2	98	-0.03
18		4,4'-DDT	3.410	3.269 E9	4.1	90	-0.03
19		End Aldehyde	2.905	3.041 E9	-4.7	99	-0.04
20		Methoxychlor	1.973	1.947 E9	1.3	90	-0.03
21		Endo Sulfate	3.533	3.534 E9	-0.0	95	-0.04
22		End Ketone	4.269	4.561 E9	-6.8	103	-0.04
23	S	DCB	3.726	4.292 E9	-15.2#	112	-0.04

Signal #2

1	S	TCMX	10.803	10.186 E9	5.7	92	0.00
3		a-BHC	17.367	16.293 E9	6.2	90	-0.01
4		g-BHC	15.843	15.225 E9	3.9	93	-0.02
5		b-BHC	7.266	6.978 E9	4.0	95	-0.02
6		d-BHC	16.231	16.125 E9	0.7	95	-0.02
7		Heptachlor	14.852	14.315 E9	3.6	93	-0.02
8		Aldrin	14.360	13.691 E9	4.7	92	-0.02
9		Hep Epoxide	13.578	13.097 E9	3.5	93	-0.03
10		g-Chlordane	13.662	13.899 E9	-1.7	99	-0.03
11		a-Chlordane	13.159	12.749 E9	3.1	94	-0.03
12		4,4'-DDE	13.405	12.368 E9	7.7	88	-0.03
13		Endosulfan I	12.259	12.119 E9	1.1	96	-0.03
14		Dieldrin	13.975	13.888 E9	0.6	96	-0.03
15		Endrin	12.628	13.025 E9	-3.1	98	-0.03
16		4,4'-DDD	11.771	12.154 E9	-3.3	99	-0.03

Evaluate Continuing Calibration Report

Data Path : H:\GC12\092116PE\
Data File : 09211621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:49 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:39 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 85% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 115%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	Endo II	12.019	12.598 E9	-4.8	102	-0.03
18	4,4'-DDT	11.717	11.784 E9	-0.6	96	-0.03
19	End Aldehyde	9.263	10.051 E9	-8.5	105	-0.04
20	Methoxychlor	6.362	6.681 E9	-5.0	101	-0.04
21	Endo Sulfate	10.582	11.232 E9	-6.1	103	-0.04
22	End Ketone	13.199	13.418 E9	-1.7	99	-0.04
23 S	DCB	7.922	9.097 E9	-14.8	113	-0.03

Evaluate Continuing Calibration Report - Not Founds

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-2.92#

Signal #2

2	Hexachlorobenzene	0.000	0.000	0.0	0#	-3.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:49 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:39 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	TCMX	2.824	3.144	134.9E6	1018.6E6	0.066	0.094	#
Spiked Amount		0.100 Range	0 -	0 Recovery	=	66.00%#	94.00%#	
23) S	DCB	9.377	10.863	429.2E6	909.7E6	0.115	0.115	
Spiked Amount		0.100 Range	0 -	0 Recovery	=	115.00%#	115.00%#	
	Target Compounds							
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
3)	a-BHC	3.242	3.687	459.8E6	1629.3E6	0.091	0.094	
4)	g-BHC	3.502	4.040	435.9E6	1522.5E6	0.093	0.097	
5)	b-BHC	3.571	4.114	155.6E6	697.8E6	0.087	0.096	
6)	d-BHC	3.733	4.437	466.2E6	1612.5E6	0.096	0.100	
7)	Heptachlor	3.928	4.522	436.6E6	1431.5E6	0.095	0.098	
8)	Aldrin	4.221	4.901	426.2E6	1369.1E6	0.093	0.097	
9)	Hep Epoxide	4.859	5.605	387.2E6	1309.7E6	0.094	0.099	
10)	g-Chlordane	5.000	5.850	410.5E6	1389.9E6	0.097	0.104	
11)	a-Chlordane	5.153	6.046	425.1E6	1274.9E6	0.101	0.099	
12)	4,4'-DDE	5.251	6.273	388.9E6	1236.8E6	0.097	0.093	
13)	Endosulfan I	5.313	6.126	377.3E6	1211.9E6	0.099	0.101	
14)	Dieldrin	5.603	6.503	428.1E6	1388.8E6	0.098	0.100	
15)	Endrin	5.893	6.934	409.4E6	1302.5E6	0.103	0.103	
16)	4,4'-DDD	5.999	7.102	314.4E6	1215.4E6	0.097	0.104	
17)	Endo II	6.183	7.242	386.3E6	1259.8E6	0.102	0.107	
18)	4,4'-DDT	6.370	7.569	326.9E6	1178.4E6	0.096	0.100	
19)	End Aldehyde	6.751	7.749	304.1E6	1005.1E6	0.105	0.111	
20)	Methoxychlor	7.074	8.651	194.7E6	668.1E6	0.099	0.109	
21)	Endo Sulfate	7.365	8.175	353.4E6	1123.2E6	0.100	0.108	
22)	End Ketone	7.766	9.002	456.1E6	1341.8E6	0.107	0.104	

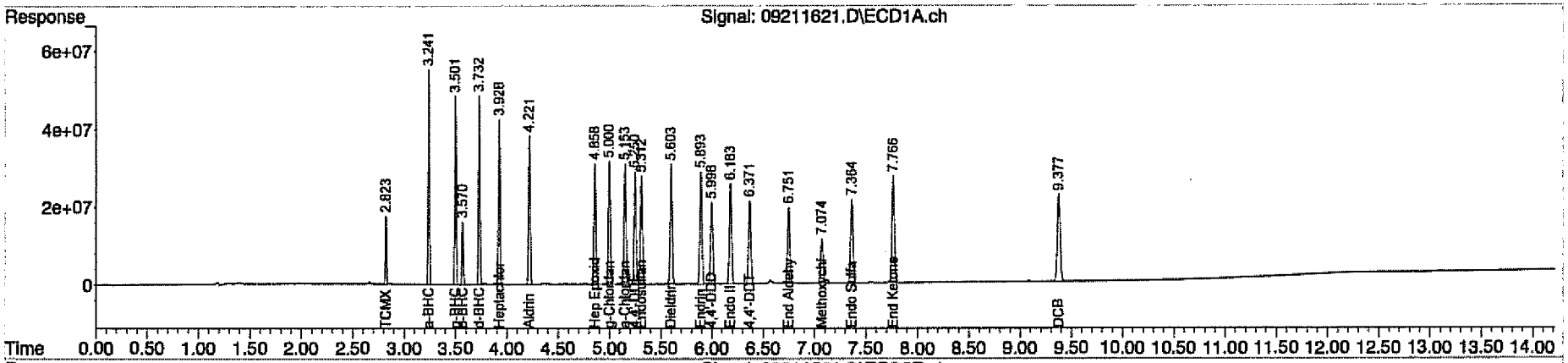
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

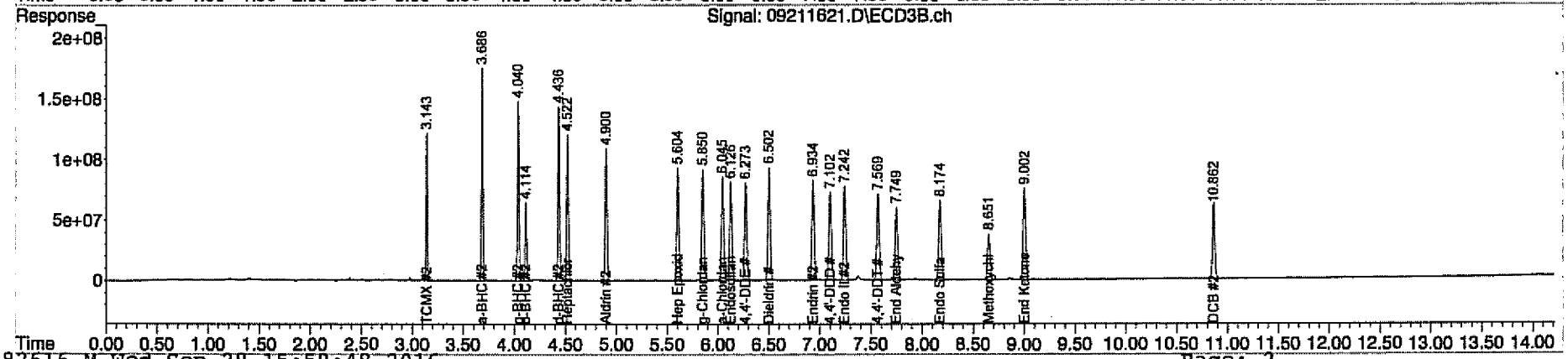
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:49 pm
Operator : BTM
Sample : PEST 0.1 UG/ML CCV
Misc : 100-8224
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 10:45:39 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 11:53 am
Operator : BTM
Sample : PEST DEG
Misc : ISM-450-1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 11:00:19 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.815	3.139	31581101	231.5E6	0.015	0.021 #
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	15.00%#	21.00%#
23) S	DCB	9.375	10.866	99721578	202.2E6	0.027	0.026
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	27.00%#	26.00%#
	Target Compounds						
2)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	Hep Epoxide	0.000	0.000	0	0	N.D. d	N.D. d
10)	g-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)	a-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	5.240	6.277	1794385	4599958	0.000m	N.D. m#
13)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
14)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	Endrin	5.886	6.934	497.4E6	1528.9E6	0.125	0.122m
16)	4,4'-DDD	5.993	7.103	6199048	33735102	0.002m	N.D. m#
17)	Endo II	0.000	0.000	0	0	N.D.	N.D.
18)	4,4'-DDT	6.364	7.571	805.9E6	2698.4E6	0.236	0.233
19)	End Aldehyde	6.736f	7.749	2682795	4048762	0.001m	N.D. m#
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endo Sulfate	0.000	0.000	0	0	N.D. d	N.D. d
22)	End Ketone	7.760	9.006	9855429	29438005	0.002m	N.D. m#

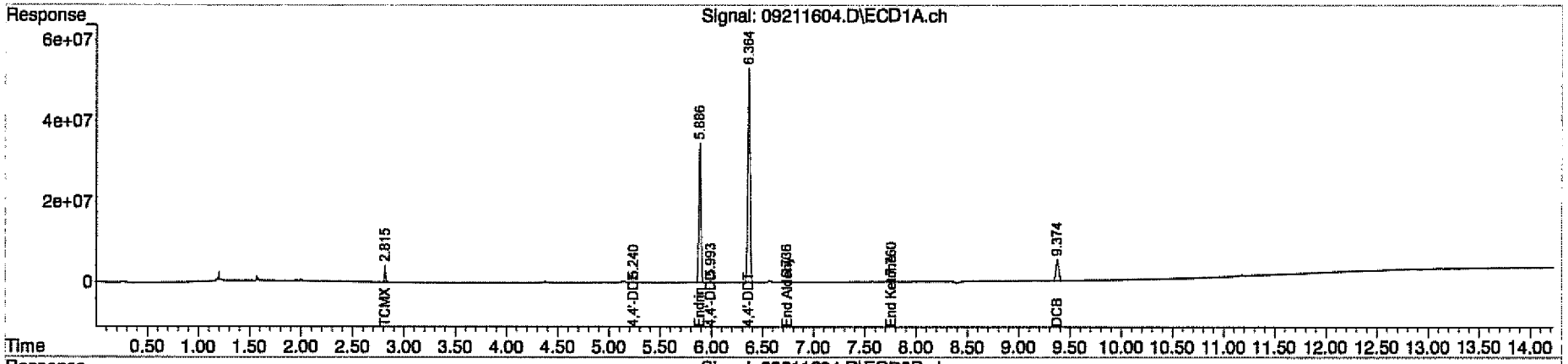
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

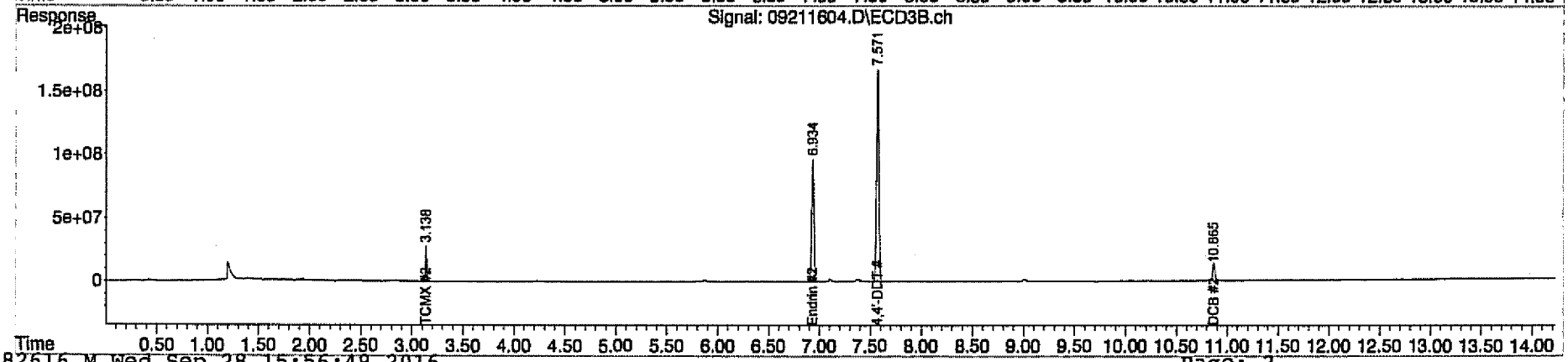
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 11:53 am
Operator : BTM
Sample : PEST DEG
Misc : ISM-450-1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 22 11:00:19 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Pest. Deg. Check

File ID: GC12/092116PE/09211604.D

	Area
DDD	6.20E+06
DDE	1.79E+06
DDT	8.06E+08

DDT Breakdown = 0.98

End Aldehyde	2.68E+06
End Ketone	9.86E+06
Endrin	4.97E+08

Endrin Breakdown = 2.46

Data Path : H:\GC12\092116PE\
Data File : 09211609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:19 pm
Operator : BTM
Sample : PBLKW1-91636
Misc : GC-12 91636 AQ
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 15:55:21 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S TCMX	2.817	3.138	103.4E6	639.3E6	0.050	0.059
Spiked Amount	0.100 Range	0 -	0 Recovery	=	50.00%#	59.00%#
23) S DCB	9.374	10.864	299.2E6	603.7E6	0.080	0.076m
Spiked Amount	0.100 Range	0 -	0 Recovery	=	80.00%#	76.00%#
Target Compounds						
2) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9) Hep Epoxide	0.000	0.000	0	0	N.D. d	N.D. d
10) g-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11) a-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
14) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
15) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
16) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
17) Endo II	0.000	0.000	0	0	N.D. d	N.D. d
18) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
19) End Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endo Sulfate	0.000	0.000	0	0	N.D. d	N.D. d
22) End Ketone	0.000	0.000	0	0	N.D. d	N.D. d

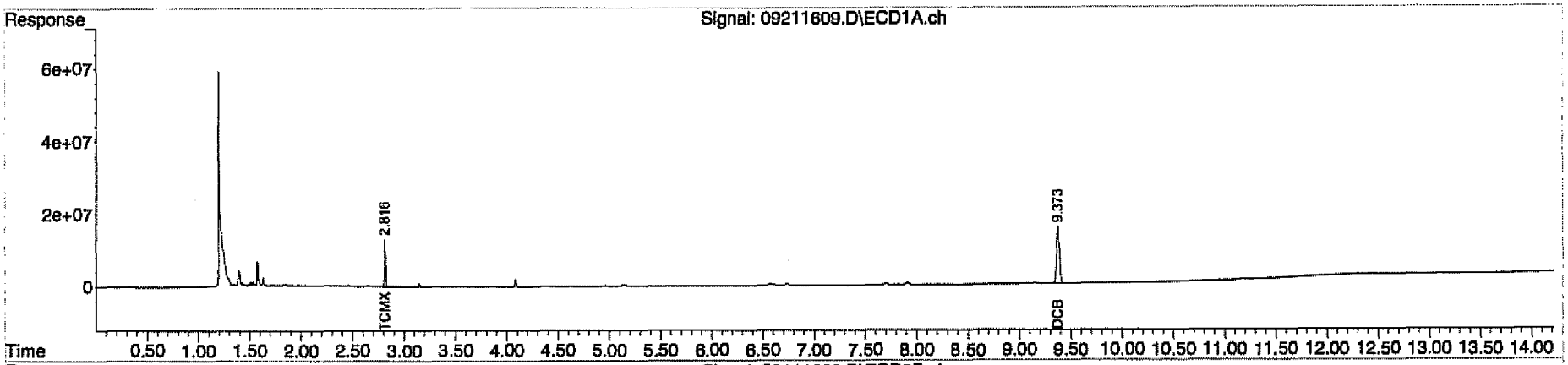
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

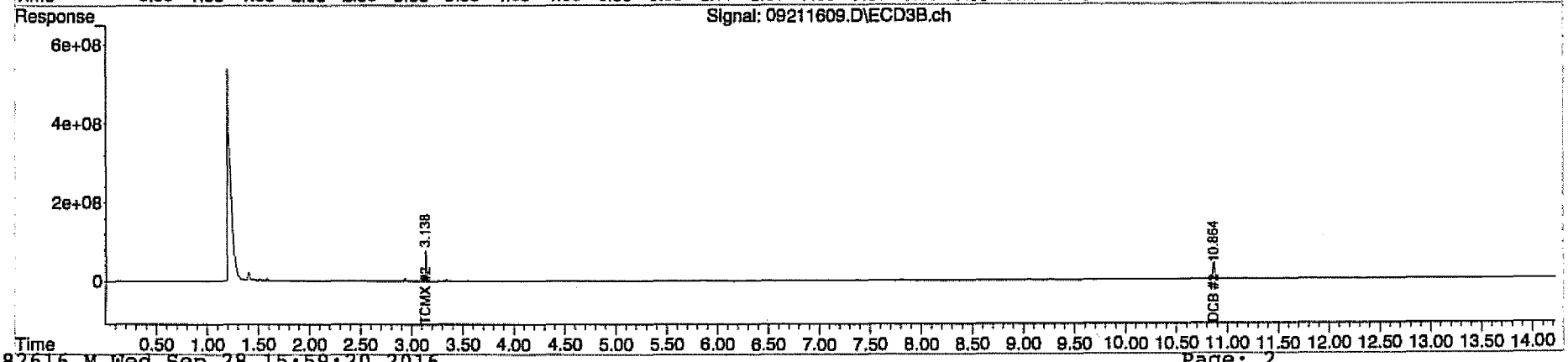
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:19 pm
Operator : BTM
Sample : PBLKW1-91636
Misc : GC-12 91636 AQ
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 15:55:21 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:37 pm
Operator : BTM
Sample : PLCSW1-91636
Misc : GC-12 91636 AQ
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:58:42 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	TCMX	2.823	3.143	106.3E6	734.2E6	0.052	0.068	#
Spiked Amount		0.100 Range	0 -	0 Recovery	=	52.00%#	68.00%#	
23) S	DCB	9.378	10.864	244.8E6	499.7E6	0.066	0.063	
Spiked Amount		0.100 Range	0 -	0 Recovery	=	66.00%#	63.00%#	
	Target Compounds							
2)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
3)	a-BHC	3.242	3.687	303.5E6	1088.7E6	0.060	0.063	
4)	g-BHC	3.502	4.041	287.8E6	1025.3E6	0.061	0.064	
5)	b-BHC	3.571	4.115	115.8E6	505.5E6	0.065	0.070	
6)	d-BHC	3.733	4.438	344.1E6	1150.9E6	0.071	0.070	
7)	Heptachlor	3.929	4.524	288.6E6	932.3E6	0.063	0.062	
8)	Aldrin	4.222	4.902	240.4E6	780.7E6	0.053	0.053	
9)	Hep Epoxide	4.859	5.606	284.9E6	914.6E6	0.069	0.067	
10)	g-Chlordane	5.000	5.851	286.4E6	955.5E6	0.068	0.070	
11)	a-Chlordane	5.154	6.046	292.9E6	856.1E6	0.070	0.064	
12)	4,4'-DDE	5.250	6.273	251.5E6	868.7E6	0.063	0.063	
13)	Endosulfan I	5.313	6.127	269.2E6	837.5E6	0.071	0.068	
14)	Dieldrin	5.604	6.503	298.3E6	972.2E6	0.069	0.069	
15)	Endrin	5.894	6.935	294.6E6	946.6E6	0.074	0.074	
16)	4,4'-DDD	5.999	7.102	223.9E6	890.8E6	0.069	0.075	
17)	Endo II	6.183	7.243	283.6E6	901.3E6	0.075	0.075	
18)	4,4'-DDT	6.371	7.570	239.2E6	814.1E6	0.070	0.068	
19)	End Aldehyde	6.751	7.750	235.9E6	726.2E6	0.081	0.079	
20)	Methoxychlor	7.074	8.652	145.7E6	495.0E6	0.074	0.078	
21)	Endo Sulfate	7.365	8.176	268.9E6	847.9E6	0.076	0.080	
22)	End Ketone	7.767	9.004	331.4E6	1031.4E6	0.078	0.079	

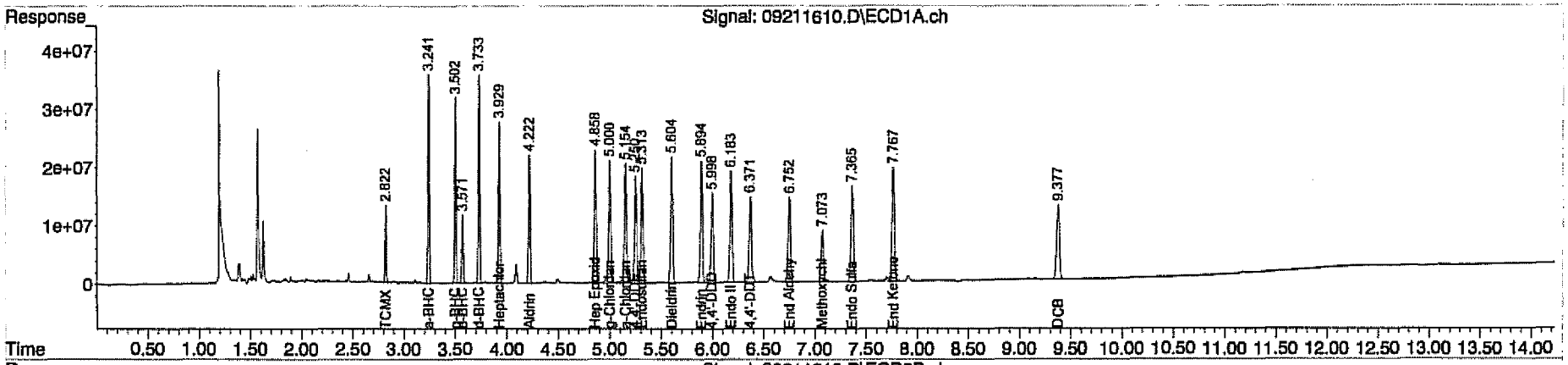
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

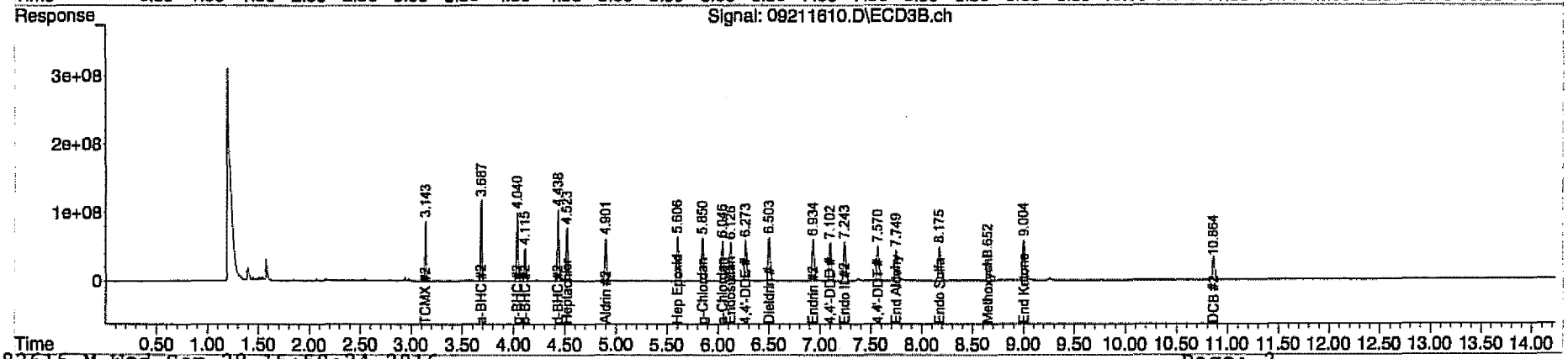
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 1:37 pm
Operator : BTM
Sample : PLCSW1-91636
Misc : GC-12 91636 AQ
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 13:58:42 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211615.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 3:04 pm
Operator : BTM
Sample : 1609913-01A MS (Sig #1); 1609913-01A MSD (Sig #2)
Misc : GC-12 91636 AQ
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 16:17:10 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.822	3.142	115.7E6	663.7E6	0.056	0.061m
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	56.00%#	61.00%#
23) S	DCB	9.378	10.864	322.2E6	649.9E6	0.086	0.082
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	86.00%#	82.00%#
	Target Compounds						
2)	Hexachlor...	2.889	3.473	11561597	16493845	NoCal	NoCal
3)	a-BHC	3.241	3.685	286.2E6	1025.8E6	0.057	0.059
4)	g-BHC	3.502	4.039	277.5E6	982.4E6	0.059	0.061
5)	b-BHC	3.570	4.113	115.5E6	485.9E6	0.065	0.067
6)	d-BHC	3.732	4.436	337.5E6	1089.9E6	0.069	0.066
7)	Heptachlor	3.927	4.522	269.5E6	904.1E6	0.059	0.060
8)	Aldrin	4.221	4.900	246.5E6	775.7E6	0.054	0.052
9)	Hep Epoxide	4.859	5.604	269.8E6	823.9E6	0.065	0.060
10)	g-Chlordane	4.999	5.849	287.7E6	932.2E6	0.068	0.068
11)	a-Chlordane	5.153	6.045	289.2E6	811.3E6	0.069	0.061
12)	4,4'-DDE	5.250	6.271	265.3E6	860.9E6	0.066	0.063
13)	Endosulfan I	5.312	6.125	262.8E6	769.3E6	0.069	0.062
14)	Dieldrin	5.603	6.502	286.6E6	914.4E6	0.066	0.065
15)	Endrin	5.893	6.933	286.6E6	874.6E6	0.072	0.068
16)	4,4'-DDD	5.998	7.101	215.3E6	831.7E6	0.066	0.070
17)	Endo II	6.183	7.241	261.5E6	829.3E6	0.069	0.069
18)	4,4'-DDT	6.370	7.568	241.5E6	822.4E6	0.071	0.069
19)	End Aldehyde	6.750	7.748	217.2E6	659.6E6	0.075	0.071
20)	Methoxychlor	7.073	8.651	140.6E6	465.2E6	0.071	0.073
21)	Endo Sulfate	7.365	8.174	254.3E6	782.6E6	0.072	0.074
22)	End Ketone	7.764	9.002	309.7E6	952.8E6	0.073	0.072

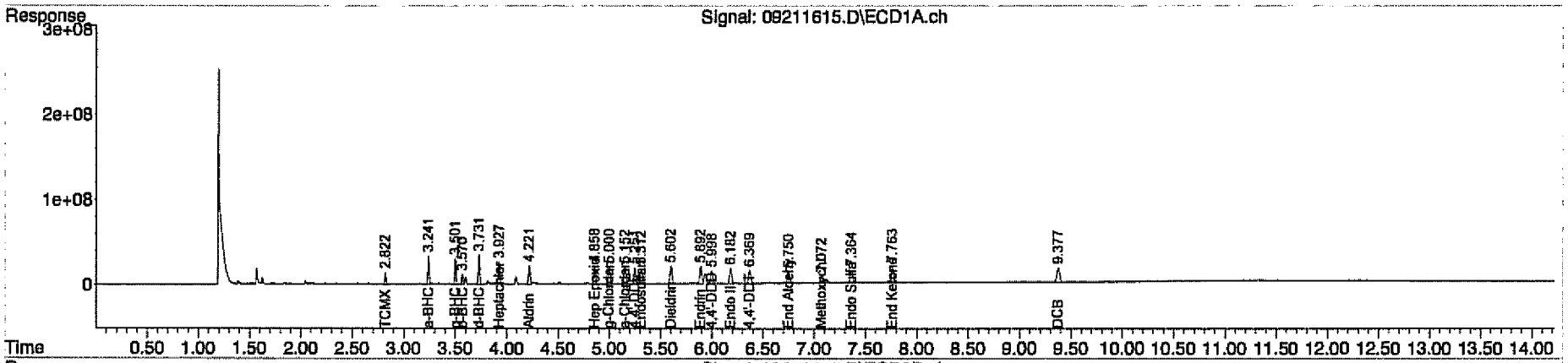
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

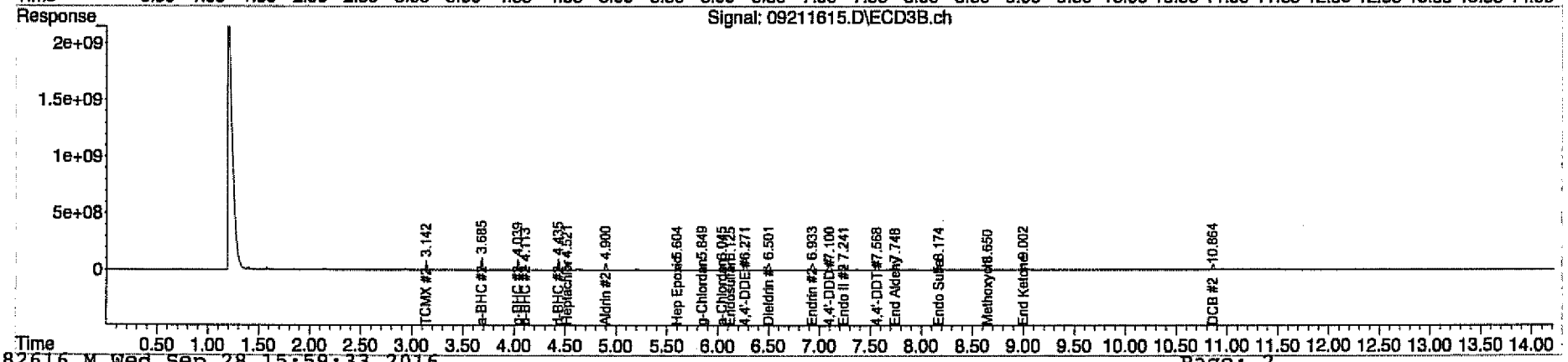
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211615.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 3:04 pm
Operator : BTM
Sample : 1609913-01A MS (Sig #1); 1609913-01A MSD (Sig #2)
Misc : GC-12 91636 AQ
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 16:17:10 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:14 pm
Operator : BTM
Sample : 1609913-01A MSD
Misc : GC-12 91636 AQ
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 16:35:12 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	TCMX	2.817	3.139	79445788	518.8E6	0.039	0.048
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	39.00%#	48.00%#
23) S	DCB	9.373	10.861	267.7E6	554.2E6	0.072	0.070
	Spiked Amount	0.100 Range	0 -	0 Recovery	=	72.00%#	70.00%#
	Target Compounds						
2)	Hexachlor...	2.886	0.000	9415859	0	NoCal	N.D.
3)	a-BHC	3.234	3.681	224.7E6	795.6E6	0.044	0.046
4)	g-BHC	3.493	4.035	219.6E6	767.2E6	0.047	0.047
5)	b-BHC	3.562	4.108	91415600	391.3E6	0.051	0.054
6)	d-BHC	3.723	4.431	270.4E6	882.4E6	0.055	0.053
7)	Heptachlor	3.918	4.517	219.9E6	724.6E6	0.048	0.047
8)	Aldrin	4.212	4.895	189.8E6	617.4E6	0.042	0.040
9)	Hep Epoxide	4.849	5.600	213.6E6	683.7E6	0.052	0.048
10)	g-Chlordane	4.991	5.845	228.4E6	791.0E6	0.054	0.057
11)	a-Chlordane	5.144	6.041	232.4E6	681.4E6	0.055	0.050
12)	4,4'-DDE	5.241	6.268	215.1E6	705.6E6	0.054	0.050
13)	Endosulfan I	5.304	6.121	209.5E6	644.1E6	0.055	0.051
14)	Dieldrin	5.595	6.498	228.6E6	756.4E6	0.052	0.053
15)	Endrin	5.885	6.930	235.4E6	721.6E6	0.059	0.055
16)	4,4'-DDD	5.990	7.098	175.6E6	696.3E6	0.054	0.058
17)	Endo II	6.175	7.239	202.0E6	709.6E6	0.053	0.058
18)	4,4'-DDT	6.362	7.566	197.6E6	687.0E6	0.058	0.057
19)	End Aldehyde	6.742	7.745	183.2E6	556.2E6	0.063	0.059
20)	Methoxychlor	7.066	8.647	117.6E6	397.8E6	0.060	0.061
21)	Endo Sulfate	7.357	8.172	207.0E6	660.1E6	0.059	0.061
22)	End Ketone	7.759	8.999	255.2E6	802.4E6	0.060	0.060

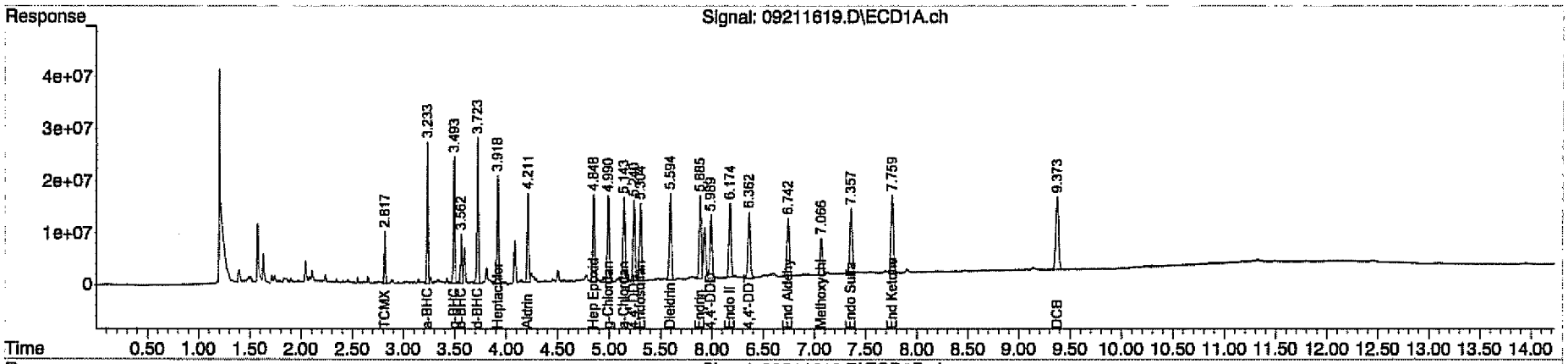
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

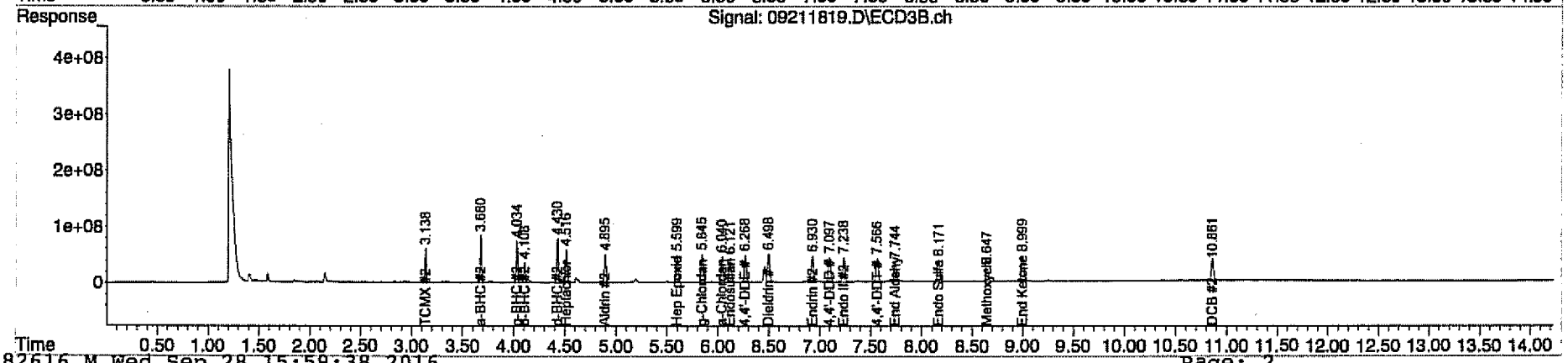
Quantitation Report (QT Reviewed)

Data Path : H:\GC12\092116PE\
Data File : 09211619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD3B.ch
Acq On : 21 Sep 2016 4:14 pm
Operator : BTM
Sample : 1609913-01A MSD
Misc : GC-12 91636 AQ
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events9.e
Integration File signal 2: events9.e
Quant Time: Sep 21 16:35:12 2016
Quant Method : C:\msdchem\2\methods\PE082616.M
Quant Title :
QLast Update : Wed Sep 21 13:30:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





```
                        2016 Sep 21 1056 Sequence Log
  Starting sequence Wed Sep 21 10:56:00 2016

Instrument Name: GC12
  Sequence File: C:\msdchem\2\sequence\092116PE.s
        Comment: PESTICIDES
       Operator: BTM
      Data Path: C:\MSDCHEM\2\DATA\092116PE\
    Method Path: C:\MSDCHEM\2\METHODS\

  Line Type        Vial  DataFile  Method    Sample Name
  ---------------------------------------------------------------------
  This computer is now swap bound.
    1) Sample        98  cond
       Datafile         09211601
       Method           GC12_PEST3
  This computer is now swap bound.
    2) Sample        99  cond
       Datafile         09211602
       Method           GC12_PEST3
  This computer is now swap bound.
    3) Sample       100  cond
       Datafile         09211603
       Method           GC12_PEST3
  This computer is now swap bound.
    4) Sample         2  PEST DEG
       Datafile         09211604
       Method           GC12_PEST3
  This computer is now swap bound.
    5) Sample         1  BLANK
       Datafile         09211605
       Method           GC12_PEST3
  Sequence Table edit performed Wed Sep 21 12:25:52 2016
  This computer is now swap bound.
    6) Sample         3  PEST  0.1 UG/ML CCV
       Datafile         09211606
       Method           GC12_PEST3
  This computer is now swap bound.
    7) Sample         4  CHLOR  1.0 UG/ML
       Datafile         09211607
       Method           GC12_PEST3
  This computer is now swap bound.
    8) Sample         5  TOX  5.0 UG/ML
       Datafile         09211608
       Method           GC12_PEST3
  This computer is now swap bound.
    9) Sample        41  PBLKW1-91636
       Datafile         09211609
       Method           GC12_PEST3
  This computer is now swap bound.
   10) Sample        42  PLCSW1-91636
       Datafile         09211610
       Method           GC12_PEST3
  This computer is now swap bound.
   11) Sample        43  16091057-01B DF10
       Datafile         09211611
       Method           GC12_PEST3
  This computer is now swap bound.
   12) Sample         1  BLANK
       Datafile         09211612
       Method           GC12_PEST3
  This computer is now swap bound.
   13) Sample        44  1609913-01A
       Datafile         09211613
```

```
                        2016 Sep 21 1056 Sequence Log
      Method            GC12_PEST3
This computer is now swap bound.
 14) Sample        45  1609913-01A MS
      Datafile         09211614
      Method           GC12_PEST3
This computer is now swap bound.
 15) Sample        46  1609913-01A MSD
      Datafile         09211615
      Method           GC12_PEST3
This computer is now swap bound.
 16) Sample        10  1609791-02A DF100
      Datafile         09211616
      Method           GC12_PEST3
This computer is now swap bound.
 17) Sample        51  PBLKS1-91670
      Datafile         09211617
      Method           GC12_PEST3
This computer is now swap bound.
 18) Sample        52  PLCSS1-91670
      Datafile         09211618
      Method           GC12_PEST3
This computer is now swap bound.
 19) Sample        47  1609913-01A MSD
      Datafile         09211619
      Method           GC12_PEST3
This computer is now swap bound.
 20) Sample         3  PEST  0.1 UG/ML CCV
      Datafile         09211620
      Method           GC12_PEST3
This computer is now swap bound.
 21) Sample         3  PEST  0.1 UG/ML CCV
      Datafile         09211621
      Method           GC12_PEST3

Sequence completed Wed Sep 21 17:03:25 2016

  C:\MSDCHEM\2\DATA\092116PE\2016 Sep 21 1056 Quality Log.LOG
  C:\MSDCHEM\2\DATA\092116PE\2016 Sep 21 1056 Sequence Log .LOG
```

ALS Group USA, Corp

PREP BATCH REPORT

Batch ID: **91636** Prep Code: **PE_3510_W**

Start Date: **9/20/2016 8:24:22 AM** End Date: **9/20/2016 7:01:00 PM**

Technician: **Erin Vegter**

InitSamp Wt/Vol: 1000 mL
FinSampVol: 1 mL
OriginalFac: 0.001
PrepUnitFac:

Sample ID	Matrix	pH	Init wt	Init vol	PMoisture	Fin Vol (mL)	Factor
16091057-01B	Surface Water			1000	0	1	0.001
1609913-01A	Tclp Extract			200	0	1	0.005
TCLP HoldTime was exceeded							
1609913-01A MS	Tclp Extract			200	0	1	0.005
TCLP HoldTime was exceeded							
1609913-01A MSD	Tclp Extract			200	0	1	0.005
TCLP HoldTime was exceeded							
1609927-02A	Tclp Extract			200	0	1	0.005
1609927-03A	Tclp Extract			200	0	1	0.005
1609927-04A	Tclp Extract			100	0	1	0.01
Opaque CLoudyMatrix, Persistent Emulsion							
1609969-01A	Wastewater			1000	0	1	0.001
PBLKW1-91636				1000	0	1	0.001
PLCSW1-91636				1000	0	1	0.001

Notes: *100uL PCB/PE Surrogate, line# 100-8358, added to all samples. 500uL Pesticide Spike, line# 100-8344. All Samples are B1/E1 unless otherwise noted.*

Herbicides

ADDRESS 3352 128th Avenue, Holland Michigan 49424-9236 USA | PHONE +1 616 399 6070 | FAX +1 616 399 6185
ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092116HR\
Data File : 09211637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2016 5:30
Operator : klm
Sample : 16091057-01B
Misc : 1X 16HRBS-91633
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 22 09:51:37 2016
Quant Method : C:\msdchem\1\methods\HR091916.M
Quant Title : Herbicides by 8151A
QLast Update : Tue Sep 20 10:39:10 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
		System Monitoring Compounds						
1)	S	DCAA	6.462	6.979	1868.3E6	2430.6E6	0.187	0.170
		Spiked Amount 0.500			Recovery	=	37.40%	34.00%
		Target Compounds						
2)	T	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	2,4,5-TP	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
12)		Picloram	0.000	0.000	0	0	N.D. d	N.D. d

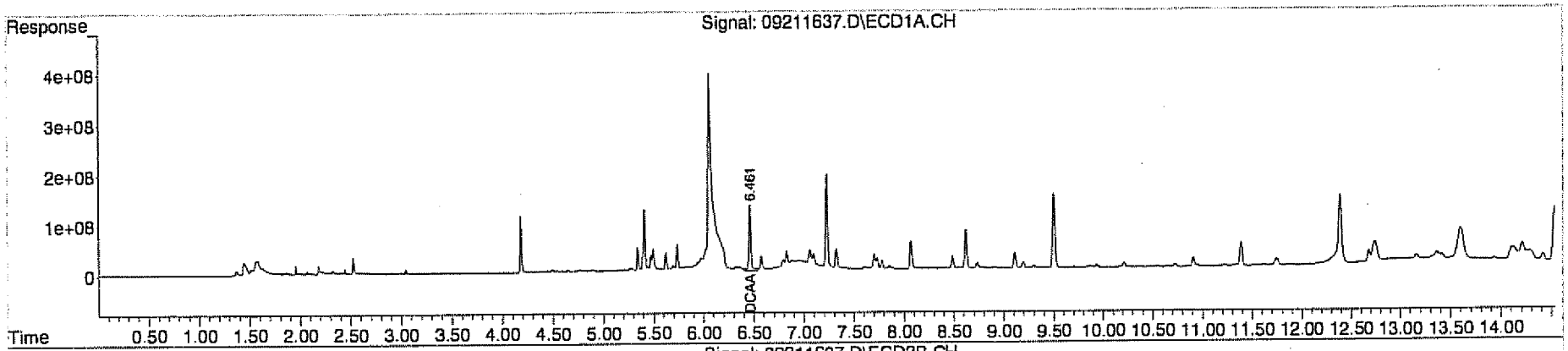
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

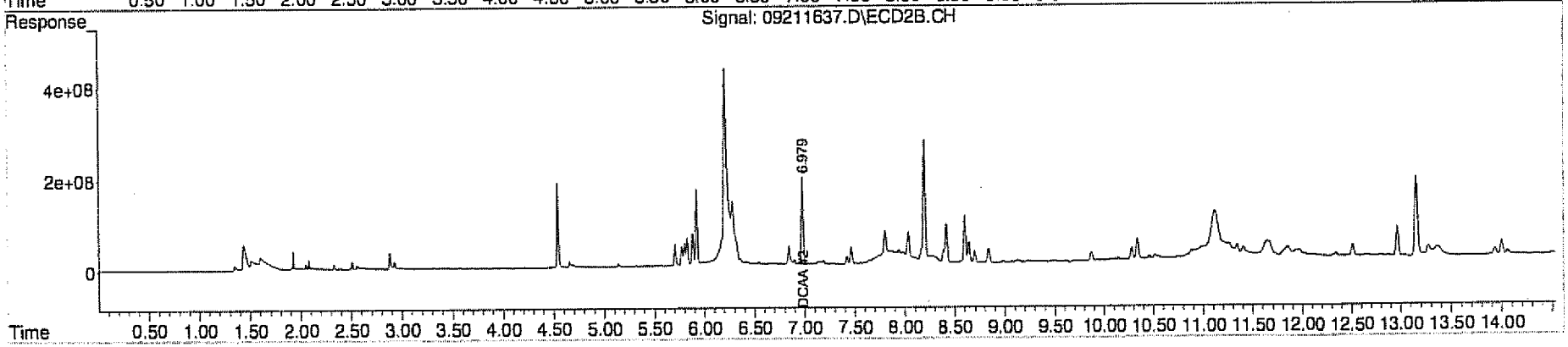
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092116HR\
Data File : 09211637.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2016 5:30
Operator : klm
Sample : 16091057-01B
Misc : 1X 16HRBS-91633
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 22 09:51:37 2016
Quant Method : C:\msdchem\1\methods\HR091916.M
Quant Title : Herbicides by 8151A
QLast Update : Tue Sep 20 10:39:10 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report HP G1530A

Method Path : C:\msdchem\1\methods\
Method File : HR091916.M
Title : Herbicides by 8151A
Last Update : Tue Sep 20 10:39:10 2016
Response Via : Initial Calibration

Calibration Files
0.01 =09191604.D 0.02 =09191605.D 0.05 =09191606.D
0.10 =09191608.D 0.25 =09191609.D 0.50 =09191610.D

		Compound	0.01	0.02	0.05	0.10	0.25	0.50	Avg		%RSD
1)	S	DCAA	13.548	12.388	11.332	10.243	9.594	9.538	10.971	E9	13.89
2)	T	Dalapon	1.901	1.869	1.885	1.852	1.593	1.629	1.785	E9	7.10
3)	T	Dicamba	7.752	7.337	7.131	6.631	6.050	5.857	6.659	E9	11.53
4)	T	MCPP	1.905	3.897	4.769	5.439	5.403	5.046	4.495	E6	27.87
5)	T	MCPA	4.080	7.913	8.483	9.084	8.734	8.256	7.826	E6	21.65
6)	T	Dichloroprop	2.491	2.495	2.308	2.140	1.896	1.731	2.103	E9	16.54
7)	T	2,4-D	2.023	2.109	2.337	1.884	1.730	1.621	1.895	E9	14.80
8)	T	2,4,5-TP	12.016	11.415	11.138	10.227	9.506	9.082	10.348	E9	11.53
9)	T	2,4,5-T	10.930	10.467	10.444	9.579	8.954	8.584	9.663	E9	9.90
10)	T	2,4-DB	1.421	1.359	1.399	1.375	1.294	1.210	1.326	E9	6.33
11)	T	Dinoseb	8.304	7.222	6.949	5.945	5.653	5.406	6.424	E9	17.04
12)		Picloram	10.209	11.008	10.899	11.312	13.561	12.883	11.870	E9	11.12

Signal #2 Calibration Files
0.01 =09191604.D 0.02 =09191605.D 0.05 =09191606.D
0.10 =09191608.D 0.25 =09191609.D 0.50 =09191610.D

		Compound	0.01	0.02	0.05	0.10	0.25	0.50	Avg		%RSD
1)	S	DCAA	23.335	19.663	18.101	16.102	14.364	13.397	16.922	E9	21.77
2)	T	Dalapon	4.879	4.107	3.082	3.155	2.699	2.433	3.255	E9	28.25
3)	T	Dicamba	14.490	12.263	11.624	10.217	8.985	8.165	10.490	E9	23.37
4)	T	MCPP	0.777	0.945	1.016	1.077	1.016	0.926	0.946	E7	10.75
5)	T	MCPA	2.088	1.898	1.865	1.751	1.531	1.379	1.694	E7	16.65
6)	T	Dichloroprop	4.439	4.084	3.827	3.447	2.952	2.645	3.403	E9	22.27
7)	T	2,4-D	3.477	3.295	3.321	3.126	2.791	2.518	2.979	E9	14.78
8)	T	2,4,5-TP	15.133	15.908	15.423	14.580	12.999	12.123	13.931	E9	12.70
9)	T	2,4,5-T	15.830	14.835	15.053	13.841	12.501	11.774	13.583	E9	13.01
10)	T	2,4-DB	2.940	2.278	2.570	2.240	2.142	1.941	2.284	E9	16.18
11)	T	Dinoseb	10.022	9.179	9.237	8.542	8.036	7.621	8.575	E9	11.17
12)		Picloram	20.611	0.026	0.014	12.059	13.284	13.045	10.370	E9	73.41

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\
Method File : HR091916.M
Title : Herbicides by 8151A
Last Update : Wed Sep 21 10:03:38 2016
Response Via : Initial Calibration

Calibration Files
0.01=09191604 0.02=09191605 0.05=09191606 0.10=09191608 0.25=09191609
0.50=09191610 1.00=09191611

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	DCAA	Lin	-5.1110 e6	10.0238 e9	-----	0.9988
2)	T	Dalapon	Lin	-6.6132 e6	1.7449 e9	-----	0.9979
3)	T	Dicamba	Lin	4.7786 e7	5.7996 e9	-----	0.9999
4)	T	MCPP	Lin	8.2370 e5	5.0221 e6	-----	0.9994
5)	T	MCPA	Lin	2.6775 e6	8.2241 e6	-----	0.9996
6)	T	Dichloroprop	Lin	3.3176 e7	1.6379 e9	-----	0.9989
7)	T	2,4-D	Lin	2.6143 e7	1.5439 e9	-----	0.9992
8)	T	2,4,5-TP	Lin	8.1034 e7	8.9701 e9	-----	0.9999
9)	T	2,4,5-T	Lin	5.7454 e7	8.5995 e9	-----	0.9998
10)	T	2,4-DB	Lin	7.8634 e6	1.2152 e9	-----	0.9997
11)	T	Dinoseb	Lin	4.3545 e7	5.4189 e9	-----	0.9998
12)		Picloram	Lin	-7.8185 e7	13.2699 e9	-----	0.9996

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	DCAA	Lin	1.8223 e8	13.2615 e9	-----	0.9997
2)	T	Dalapon	Lin	4.3761 e7	2.3794 e9	-----	0.9993
3)	T	Dicamba	Lin	1.9185 e8	7.5693 e9	-----	0.9985
4)	T	MCPP	Lin	1.2922 e7	8.6717 e6	-----	0.9976
5)	T	MCPA	Lin	2.5520 e7	1.3247 e7	-----	0.9990
6)	T	Dichloroprop	Lin	7.3297 e7	2.3915 e9	-----	0.9971
7)	T	2,4-D	Lin	5.6260 e7	2.3037 e9	-----	0.9972
8)	T	2,4,5-TP	Lin	2.2085 e8	11.2700 e9	-----	0.9984
9)	T	2,4,5-T	Lin	1.8156 e8	11.1548 e9	-----	0.9992
10)	T	2,4-DB	Lin	3.0649 e7	1.8569 e9	-----	0.9990
11)	T	Dinoseb	Lin	8.7538 e7	7.3419 e9	-----	0.9996
12)		Picloram	Lin	-2.5538 e8	13.7916 e9	-----	0.9978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191603.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 15:30
Operator : klm
Sample : 0.01 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:00:47 2016
Quant Method : C:\msdchem\1\methods\HR091916.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
		System Monitoring Compounds						
1)	S	DCAA	6.445	6.967	128.2E6	213.9E6	0.024m	0.028m
Spiked Amount		0.500			Recovery	=	4.80%	5.60%
		Target Compounds						
2)	T	Dalapon	2.459	2.505	15876600	28353220	N.D. m	N.D. m
3)	T	Dicamba	6.625	7.164	73793704	134.6E6	0.003m	N.D. m#
4)	T	MCPP	6.796	7.255	1724323	6789241	0.359m	N.D. m#
5)	T	MCPA	6.946	7.502	3086018	19329900	0.394m	N.D. m#
6)	T	Dichloroprop	7.314	7.868	24296791	41784345	N.D. m	N.D. m
7)	T	2,4-D	7.558	8.210	18760878	33724456	N.D. m	N.D. m
8)	T	2,4,5-TP	8.406	9.094	113.5E6	139.9E6	0.004m	N.D. m#
9)	T	2,4,5-T	8.714	9.530	103.7E6	146.7E6	0.007m	0.008m
10)	T	2,4-DB	9.285	10.095	12423510	24324136	0.004m	N.D. m#
11)	T	Dinoseb	10.447	10.448	77118515	91252912	0.008m	N.D. m#
12)		Picloram	0.000	0.000	0	0	N.D. d	N.D. d

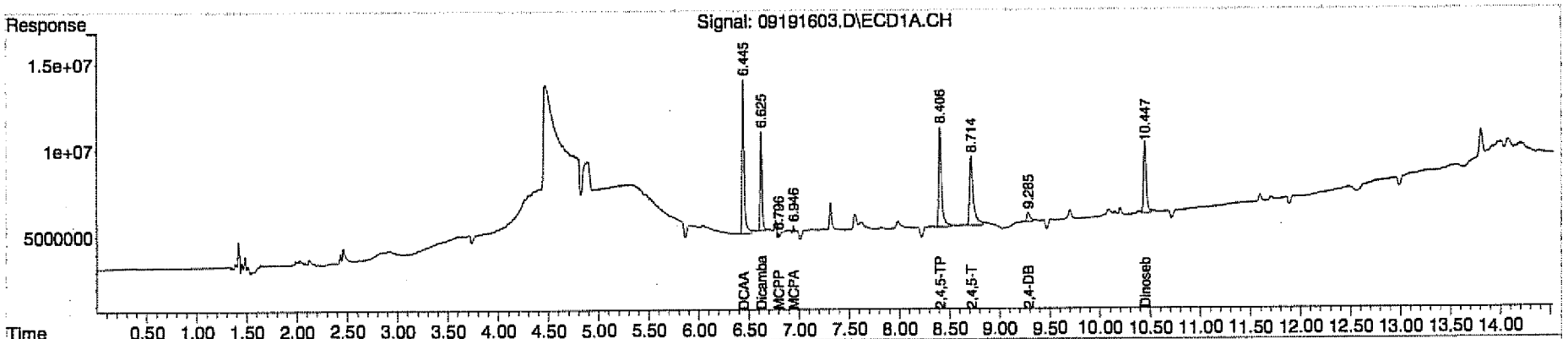
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

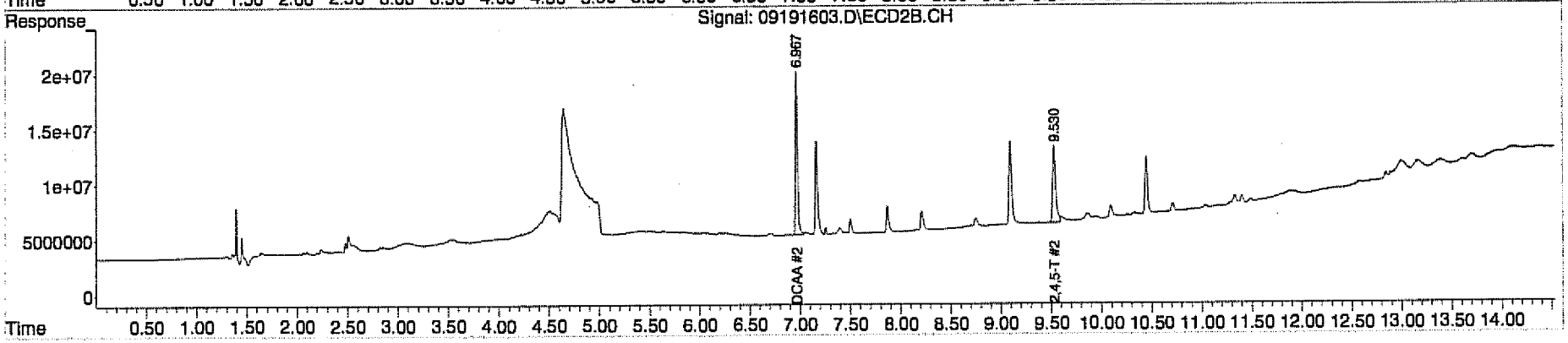
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191603.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 15:30
Operator : klm
Sample : 0.01 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:00:47 2016
Quant Method : C:\msdchem\1\methods\HR091916.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191604.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 15:49
Operator : klm
Sample : 0.01 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:02:54 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
		System Monitoring Compounds						
1)	S	DCAA	6.444	6.968	127.4E6	219.3E6	0.024m	0.030m
Spiked Amount		0.500			Recovery	=	4.80%	6.00%
		Target Compounds						
2)	T	Dalapon	2.460	2.507	17313994	44448307	N.D. m	N.D. m
3)	T	Dicamba	6.625	7.163	73260580	136.9E6	0.003m	N.D. m#
4)	T	MCPP	6.797	7.255	1788917	7297680	0.365m	N.D. m#
5)	T	MCPA	6.944	7.503	3827214	19585402	0.437m	N.D. m#
6)	T	Dichloroprop	7.313	7.866	23512361	41903273	N.D. m	N.D. m
7)	T	2,4-D	7.558	8.210	19014368	32683221	N.D. m	N.D. m
8)	T	2,4,5-TP	8.406	9.093	113.6E6	143.0E6	0.004m	N.D. m#
9)	T	2,4,5-T	8.714	9.530	103.6E6	150.1E6	0.007m	0.008m
10)	T	2,4-DB	9.285	10.093	13454074	27841762	0.004m	N.D. m#
11)	T	Dinoseb	10.447	10.447	78477280	94704730	0.008m	N.D. m#
12)		Picloram	0.000	0.000	0	0	N.D. d	N.D. d

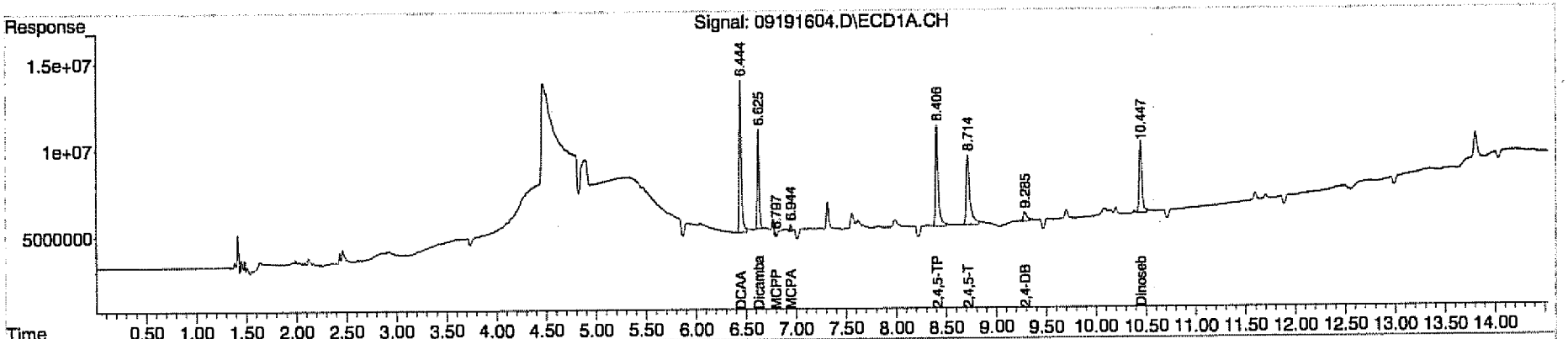
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

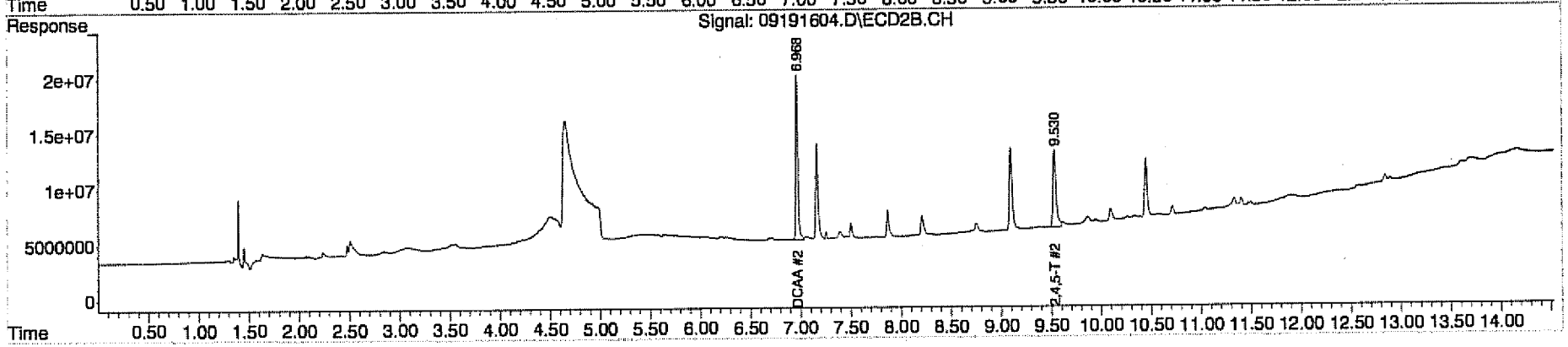
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191604.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 15:49
Operator : klm
Sample : 0.01 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:02:54 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191605.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 14:06
Operator : klm
Sample : 0.025 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:05:10 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
		System Monitoring Compounds						
1)	S	DCAA	6.445	6.967	291.1E6	462.1E6	0.069m	0.087m#
Spiked Amount		0.500			Recovery	=	13.80%	17.40%
		Target Compounds						
2)	T	Dalapon	2.458	2.505	42557418	93542392	0.006m	0.013m#
3)	T	Dicamba	6.625	7.165	173.3E6	289.7E6	0.011m	0.008m#
4)	T	MCPP	6.797	7.254	9149088	22174544	1.043m	0.608m#
5)	T	MCPA	6.944	7.502	18557151	44506839	1.288m	0.687m#
6)	T	Dichloroprop	7.313	7.868	58886632	96390874	0.004m	0.001m#
7)	T	2,4-D	7.551	8.208	49563106	77429238	0.007m	0.001m#
8)	T	2,4,5-TP	8.405	9.094	269.7E6	375.8E6	0.012m	0.006m#
9)	T	2,4,5-T	8.709	9.527	248.1E6	351.6E6	0.014m	0.019m#
10)	T	2,4-DB	9.280	10.091	32176388	53925138	0.011m	0.002m#
11)	T	Dinoseb	10.447	10.447	170.6E6	216.9E6	0.016m	0.009m#
12)		Picloram	0.000	12.706	0	616713	N.D.	0.004 #

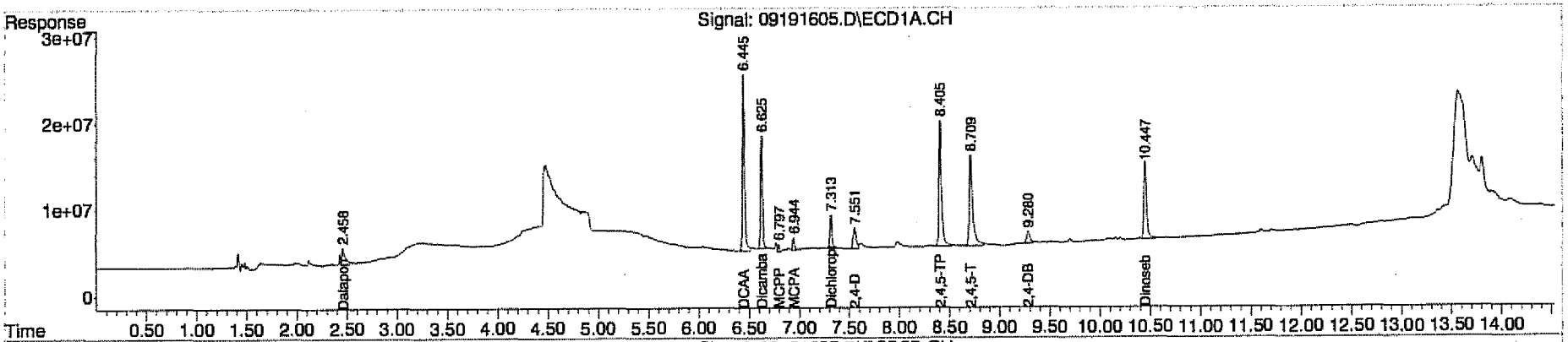
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

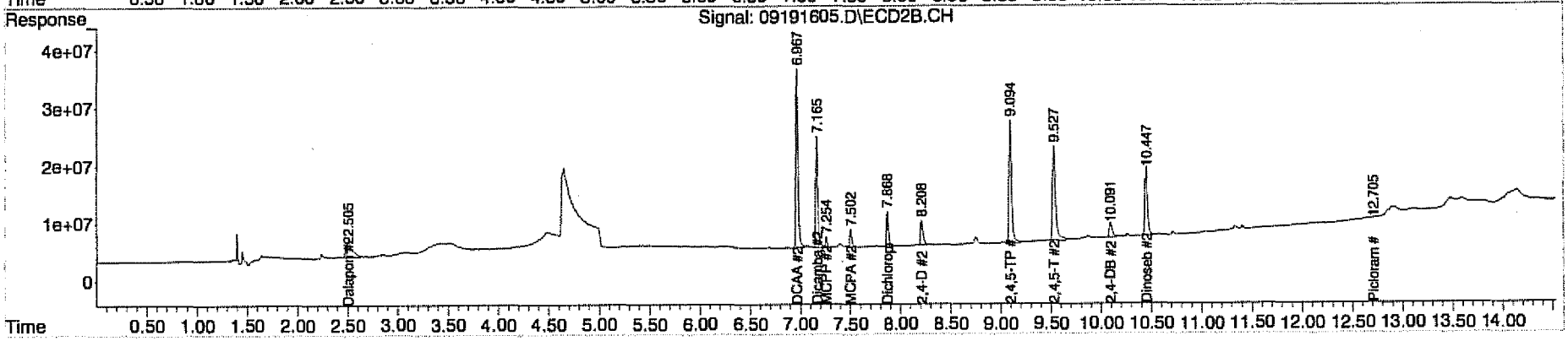
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191605.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 14:06
Operator : klm
Sample : 0.025 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:05:10 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191607.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 17:03
Operator : klm
Sample : 0.025 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:34:47 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds								
1)	S	DCAA	6.444	6.966	301.2E6	481.0E6	0.072m	0.092m#
Spiked Amount		0.500			Recovery	=	14.40%	18.40%
Target Compounds								
2)	T	Dalapon	2.459	2.506	46552501	70954094	0.008m	0.006m#
3)	T	Dicamba	6.625	7.163	180.4E6	296.0E6	0.012m	0.008m#
4)	T	MCPP	6.796	7.254	9677563	25908108	1.092m	0.860m
5)	T	MCPA	6.945	7.500	21959357	51040730	1.485m	0.982m#
6)	T	Dichloroprop	7.313	7.866	61315410	99673345	0.005m	0.002m#
7)	T	2,4-D	7.553	8.207	49980035	86579754	0.007	0.004m#
8)	T	2,4,5-TP	8.405	9.093	273.7E6	387.3E6	0.012m	0.007m#
9)	T	2,4,5-T	8.710	9.526	251.6E6	374.2E6	0.015m	0.020m#
10)	T	2,4-DB	9.283	10.090	36335070	60164144	0.013m	0.004m#
11)	T	Dinoseb	10.446	10.446	163.9E6	221.8E6	0.016m	0.009m#
12)		Picloram	0.000	0.000	0	0	N.D. d	N.D. d

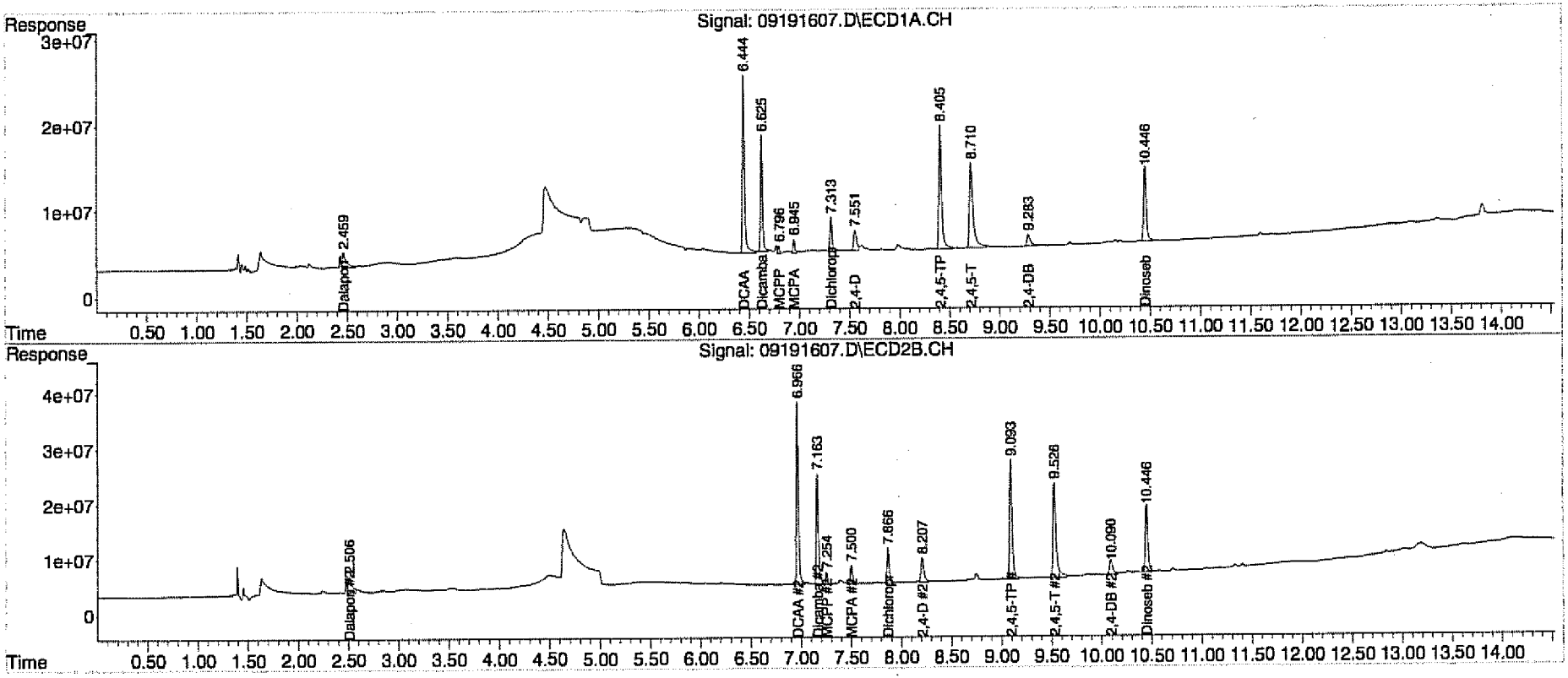
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191607.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 17:03
Operator : klm
Sample : 0.025 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:34:47 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191606.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 16:43
Operator : klm
Sample : 0.05 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:07:26 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds								
1)	S	DCAA	6.448	6.963	532.6E6	850.7E6	0.135m	0.179m#
Spiked Amount 0.500					Recovery	=	27.00%	35.80%
Target Compounds								
2)	T	Dalapon	2.459	2.501	85842525	140.4E6	0.024m	0.028m
3)	T	Dicamba	6.628	7.160	336.9E6	549.2E6	0.025m	0.028m
4)	T	MCPP	6.801	7.252	22390443	47701389	2.263m	2.331m
5)	T	MCPA	6.947	7.496	39784853	87476016	2.515m	2.630m
6)	T	Dichloroprop	7.317	7.864	108.9E6	180.6E6	0.019m	0.023m
7)	T	2,4-D	7.551	8.202	109.9E6	156.1E6	0.026m	0.022m
8)	T	2,4,5-TP	8.408	9.090	526.3E6	728.7E6	0.026m	0.025m
9)	T	2,4,5-T	8.709	9.521	495.0E6	713.5E6	0.028m	0.038m#
10)	T	2,4-DB	9.281	10.084	66244327	121.7E6	0.025m	0.024m
11)	T	Dinoseb	10.451	10.445	328.4E6	436.5E6	0.030m	0.027m
12)		Picloram	0.000	12.708	0	653886	N.D.	0.004 #

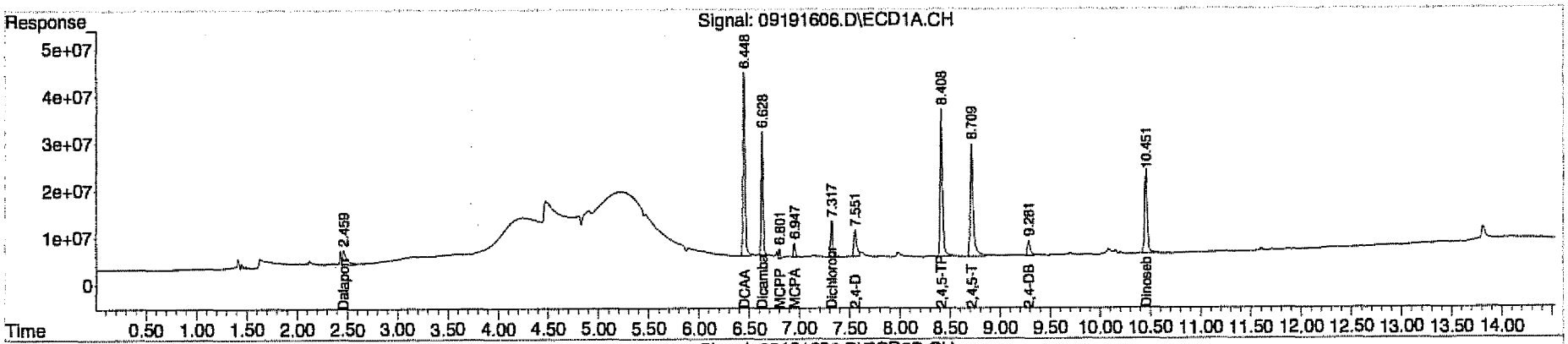
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

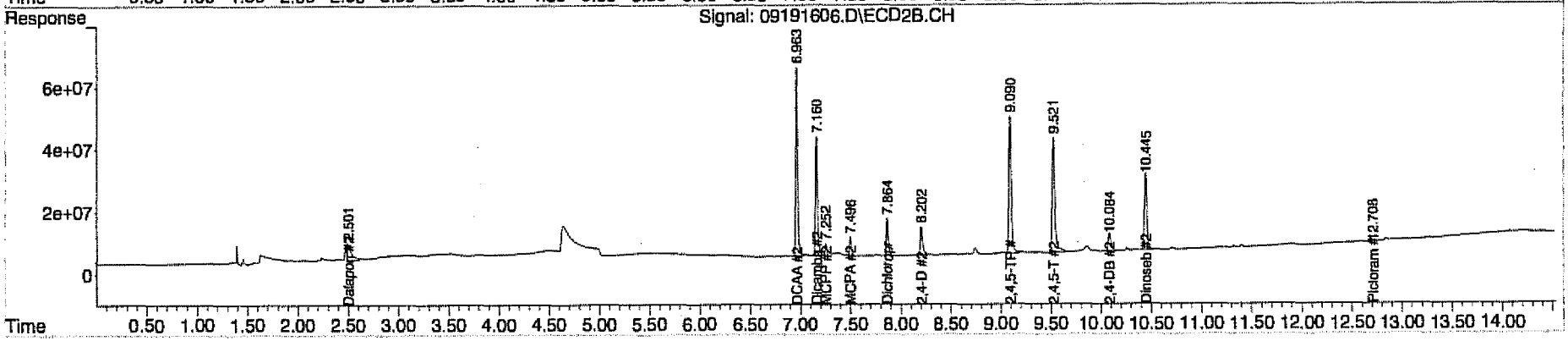
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191606.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 16:43
Operator : klm
Sample : 0.05 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:07:26 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091916hr\
Data File : 09191608.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2016 17:22
Operator : klm
Sample : 0.1 ug/ml Herb CCV
Misc : 100-8302
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 20 10:10:05 2016
Quant Method : C:\msdchem\1\methods\HR083116.M
Quant Title : Herbicides by 8151A
QLast Update : Fri Sep 02 08:57:53 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
		System Monitoring Compounds						
1)	S	DCAA	6.444	6.967	962.8E6	1513.6E6	0.254m	0.337m#
Spiked Amount		0.500			Recovery	=	50.80%	67.40%
		Target Compounds						
2)	T	Dalapon	2.460	2.505	168.7E6	287.4E6	0.057	0.075m#
3)	T	Dicamba	6.625	7.163	626.7E6	965.6E6	0.048m	0.062m#
4)	T	MCPP	6.796	7.255	51075322	101.1E6	4.905m	5.938m
5)	T	MCPA	6.944	7.500	85203647	164.2E6	5.140m	6.101m
6)	T	Dichloroprop	7.313	7.866	202.0E6	325.4E6	0.047m	0.060m#
7)	T	2,4-D	7.544	8.203	177.1E6	293.8E6	0.047m	0.059m#
8)	T	2,4,5-TP	8.402	9.092	966.4E6	1377.8E6	0.049m	0.060m
9)	T	2,4,5-T	8.704	9.523	908.1E6	1312.1E6	0.050m	0.069m#
.0)	T	2,4-DB	9.274	10.086	130.2E6	212.1E6	0.050m	0.054m
.1)	T	Dinoseb	10.445	10.446	561.8E6	807.2E6	0.050m	0.058m
.2)		Picloram	0.000	0.000	0	0	N.D.	N.D.

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