

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\  
 Data File : VF062108.D  
 Acq On : 23 Mar 2019 5:50  
 Operator : VA/AP  
 Sample : K2056-02  
 Misc : 5.20µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CS-8

Quant Time: Mar 23 06:39:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 01:16:37 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	135991	50.00	µg/l	-0.02
34) 1,4-Difluorobenzene	5.61	114	221035	50.00	µg/l	-0.01
63) Chlorobenzene-d5	9.78	117	157221	50.00	µg/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	71859	50.00	µg/l	-0.01

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	49374	48.81	µg/l	-0.02
Spiked Amount	50.000		Recovery	=	97.62%	
35) Dibromofluoromethane	4.13	113	74521	49.84	µg/l	-0.01
Spiked Amount	50.000		Recovery	=	99.68%	
50) Toluene-d8	7.57	98	172577	38.67	µg/l	-0.02
Spiked Amount	50.000		Recovery	=	77.34%	
62) 4-Bromofluorobenzene	11.42	95	63525	36.87	µg/l	-0.01
Spiked Amount	50.000		Recovery	=	73.74%	

## Target Compounds

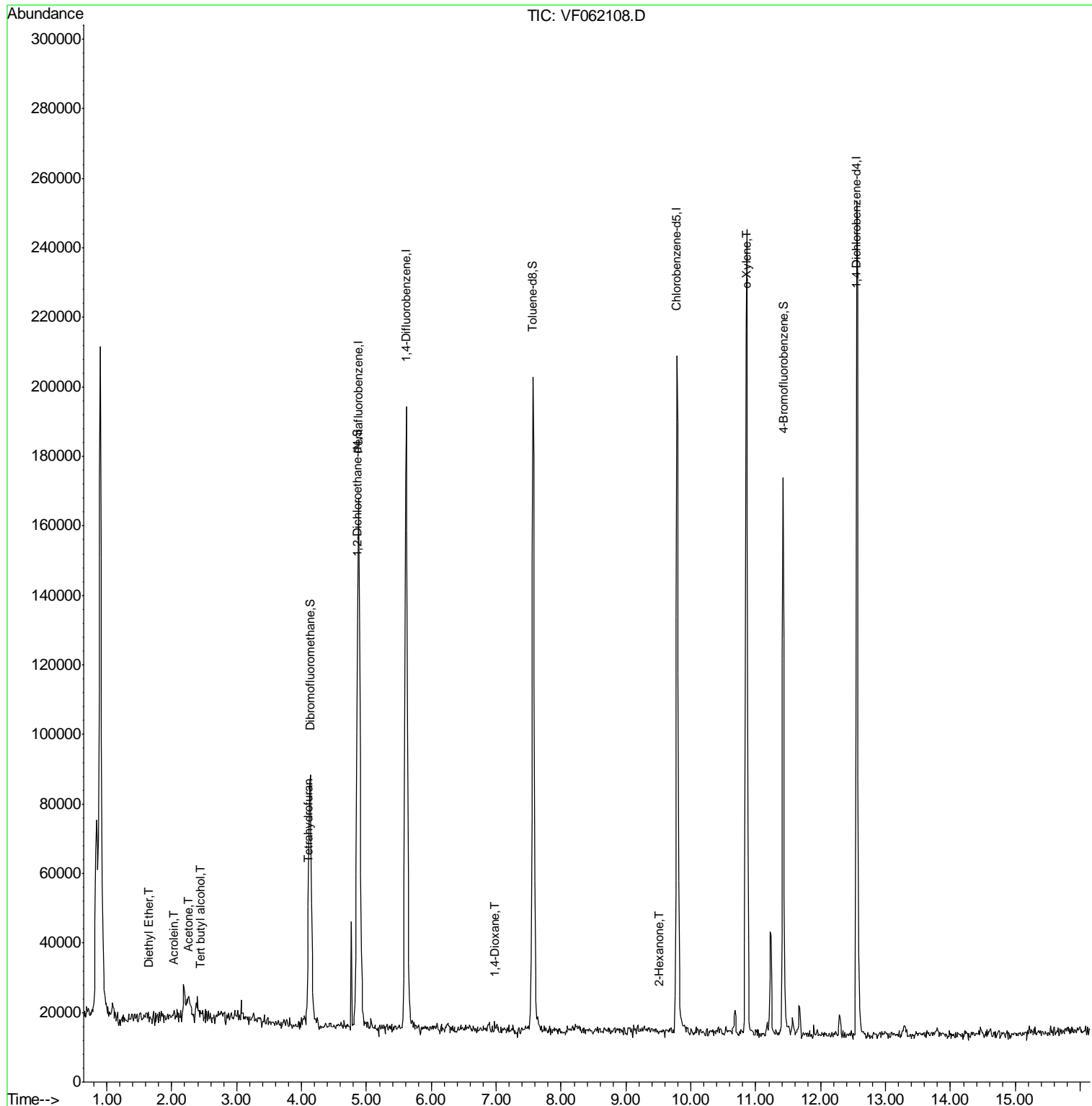
					Qvalue	
8) Diethyl Ether	1.64	74	512	1.101	µg/l	48
11) Tert butyl alcohol	2.46	59	70	1.258	µg/l #	1
13) Acrolein	2.03	56	224	3.347	µg/l	99
16) Acetone	2.25	43	537	2.522	µg/l #	49
29) Tetrahydrofuran	4.09	42	259	1.340	µg/l #	33
49) 1,4-Dioxane	6.97	88	62	11.137	µg/l #	18
59) 2-Hexanone	9.51	43	1162	2.126	µg/l #	58
69) o-Xylene	10.85	106	2833	1.415	µg/l #	1

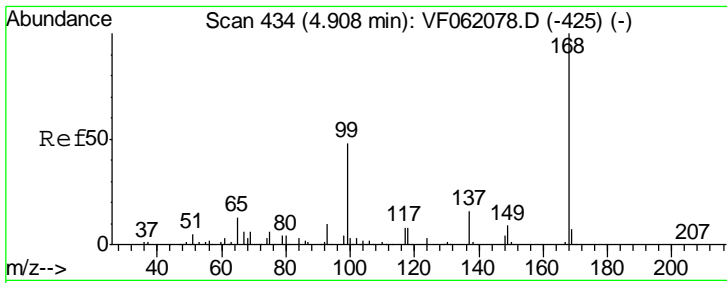
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Misc : 5.20µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 CS-8

Quant Time: Mar 23 06:39:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 01:16:37 2019  
 Response via : Initial Calibration

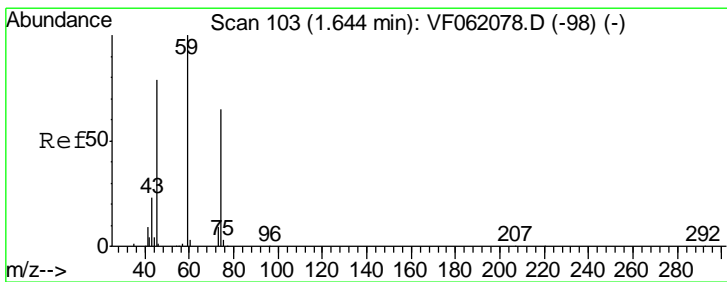
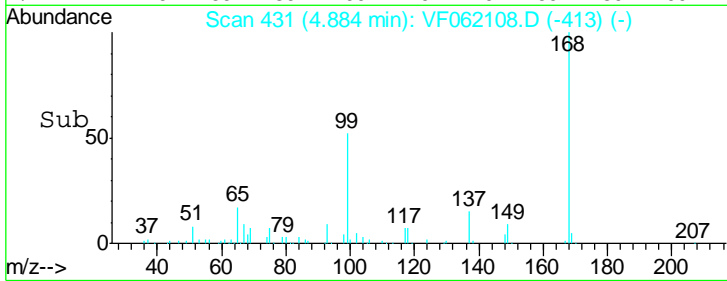
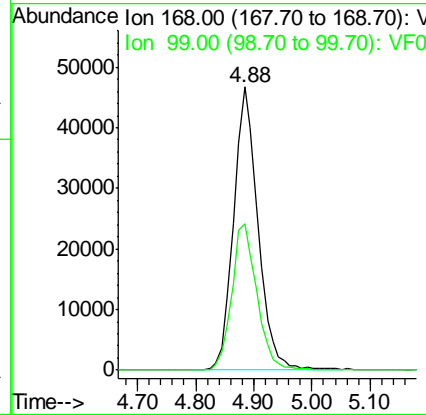
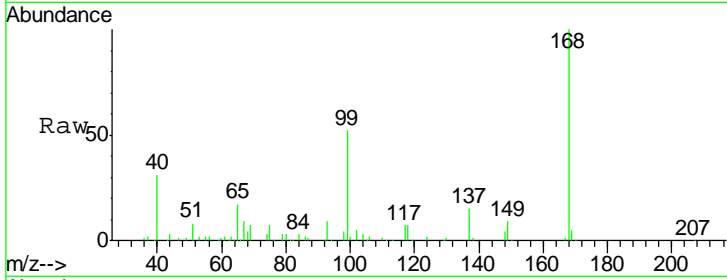




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 4.88 min Scan# 431  
 Delta R.T. -0.02 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

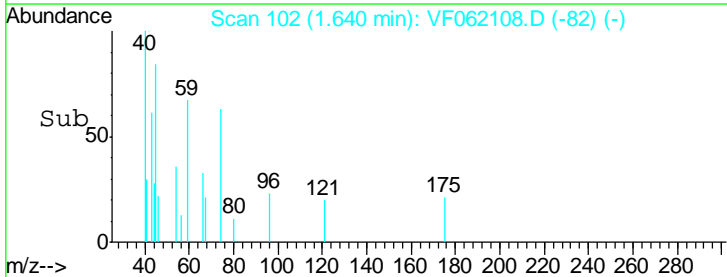
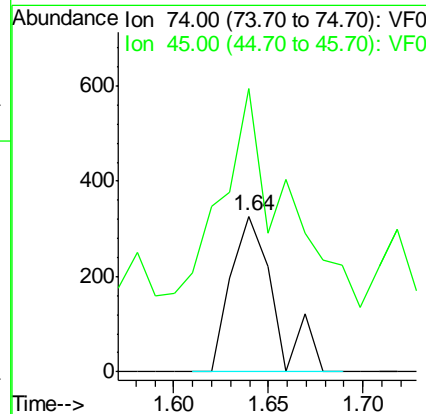
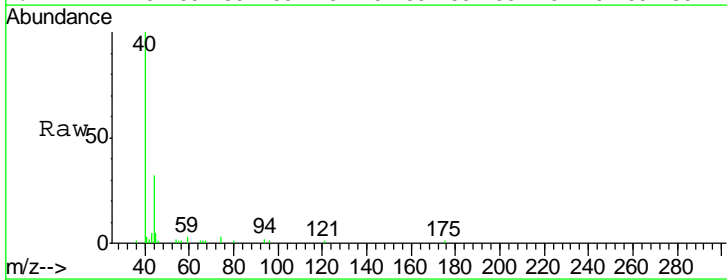
Instrument : MSVOA\_F  
 ClientSampled : CS-8

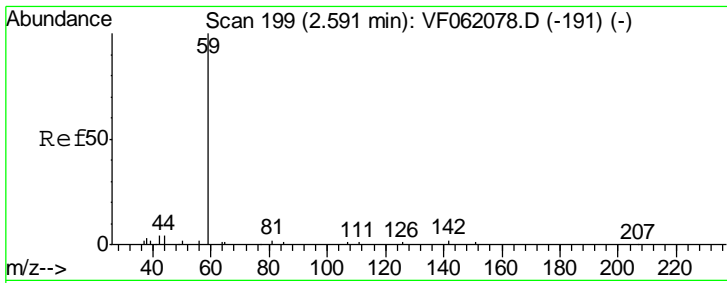
Tgt Ion	Resp	Lower	Upper
168	100		
99	51.7	38.2	57.4



#8  
 Diethyl Ether  
 Concen: 1.101 ug/l  
 RT: 1.64 min Scan# 102  
 Delta R.T. -0.00 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion	Resp	Lower	Upper
74	100		
45	181.7	61.4	184.2

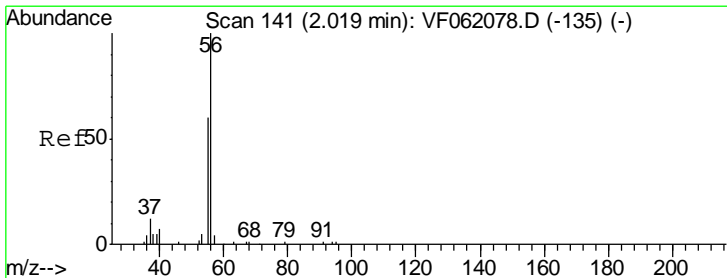
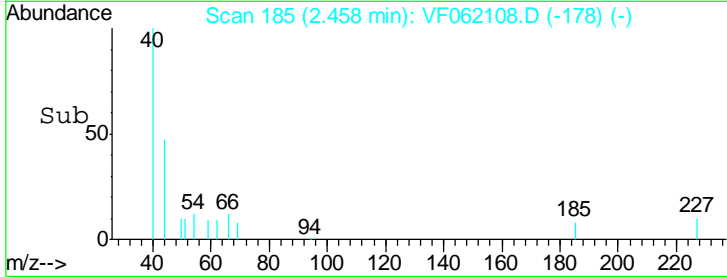
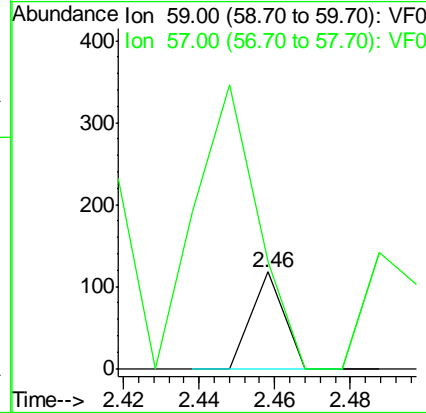
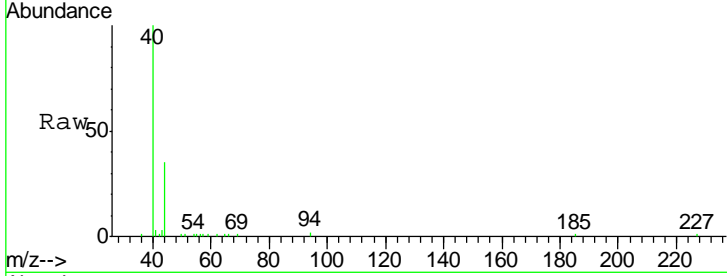




#11  
 Tert butyl alcohol  
 Concen: 1.258 ug/l  
 RT: 2.46 min Scan# 185  
 Delta R.T. -0.13 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

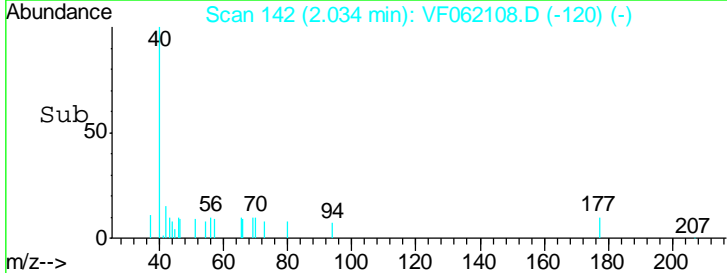
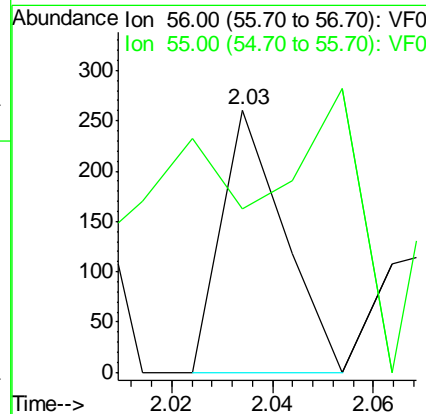
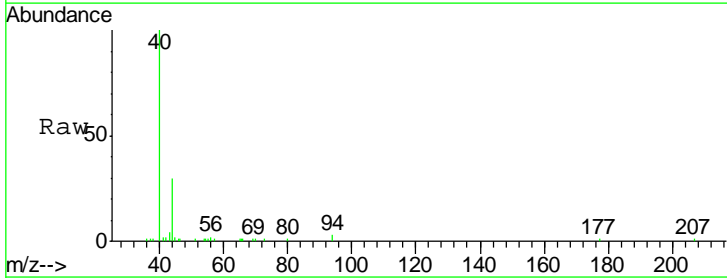
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 CS-8

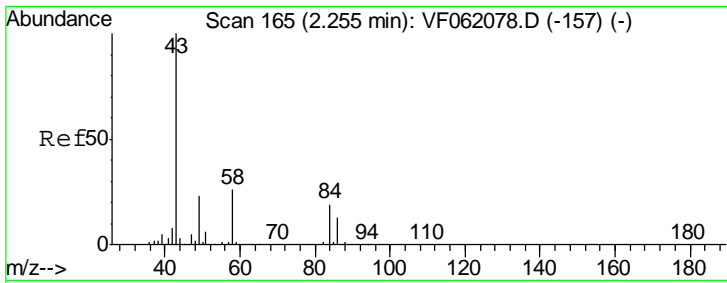
Tgt Ion	Resp	Lower	Upper
59	100		
57	110.2	11.0	16.4#



#13  
 Acrolein  
 Concen: 3.347 ug/l  
 RT: 2.03 min Scan# 142  
 Delta R.T. 0.02 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion	Resp	Lower	Upper
56	100		
55	62.1	49.0	73.4

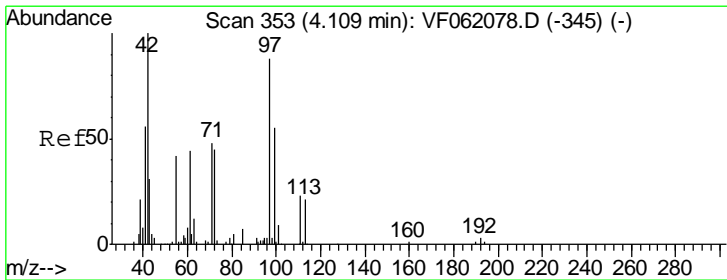
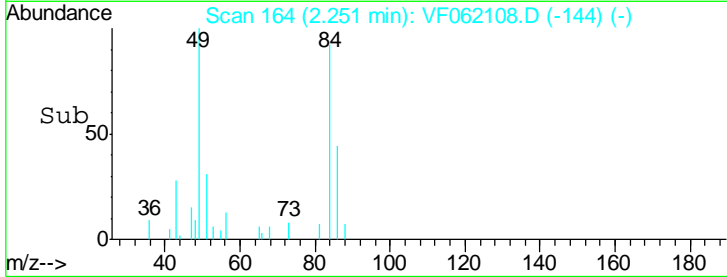
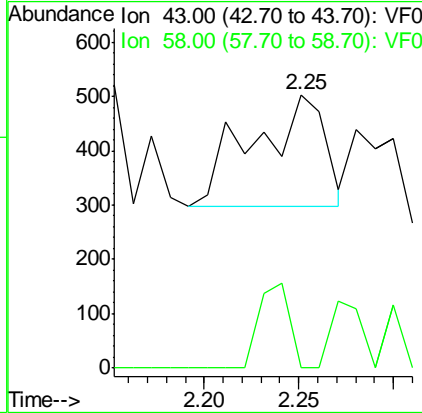
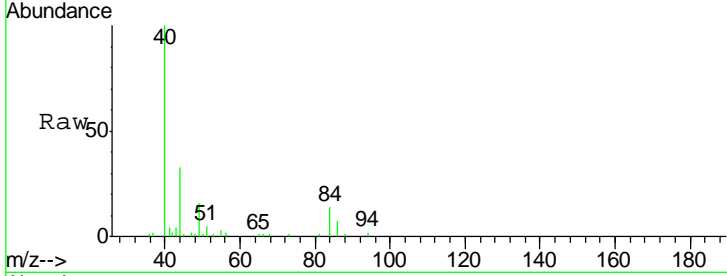




#16  
 Acetone  
 Concen: 2.522 ug/l  
 RT: 2.25 min Scan# 164  
 Delta R.T. -0.00 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

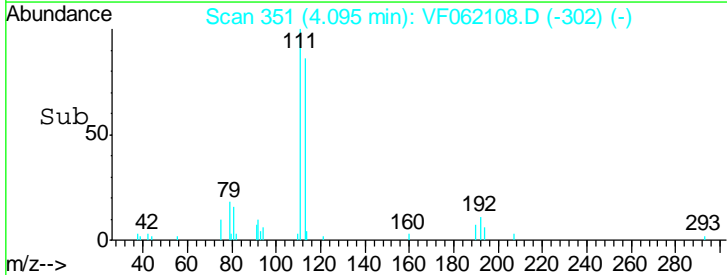
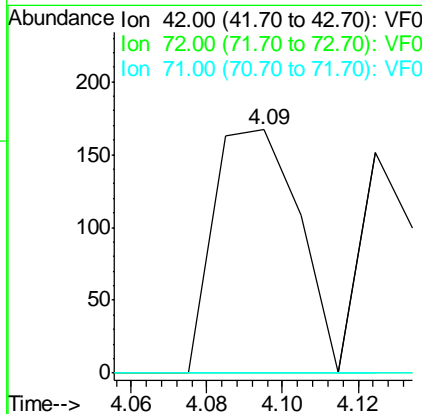
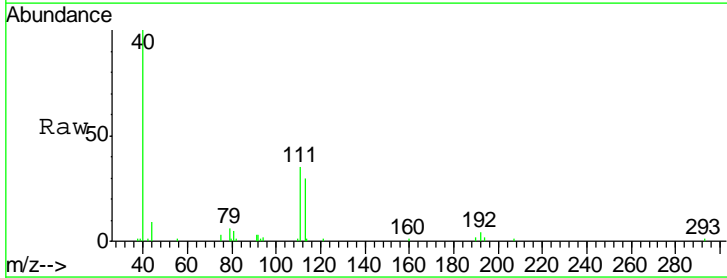
**Instrument :**  
 MSVOA\_F  
**ClientSampled :**  
 CS-8

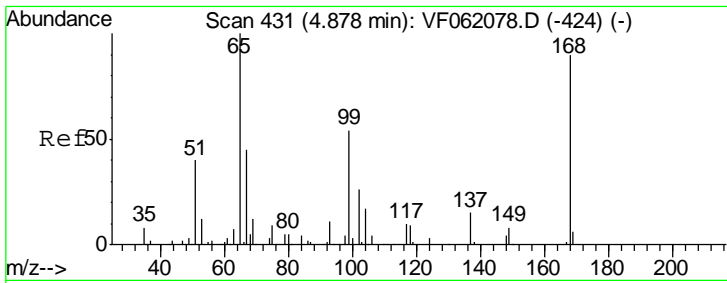
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	20.8	31.2#



#29  
 Tetrahydrofuran  
 Concen: 1.340 ug/l  
 RT: 4.09 min Scan# 351  
 Delta R.T. -0.01 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.3	49.9#
71	0.0	35.0	52.4#

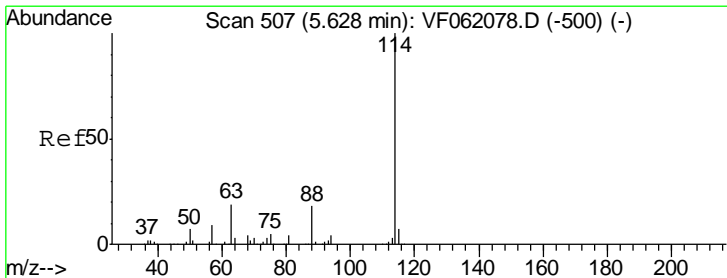
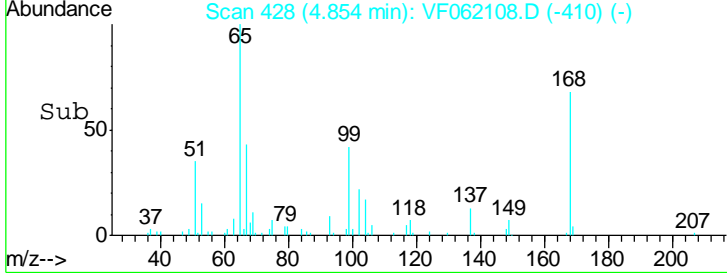
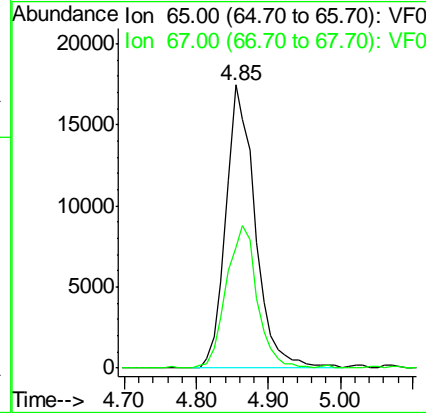
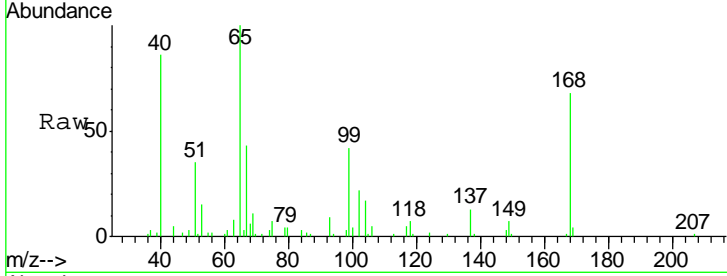




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.812 ug/l  
 RT: 4.85 min Scan# 428  
 Delta R.T. -0.02 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

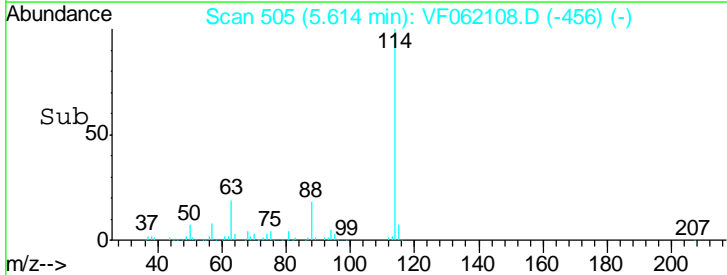
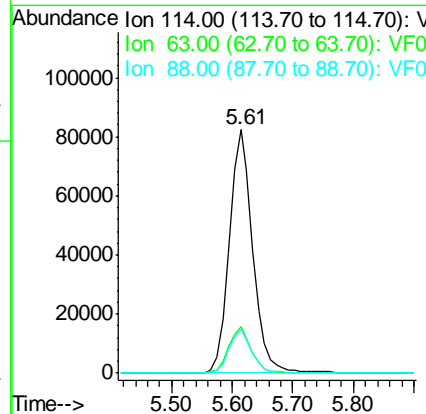
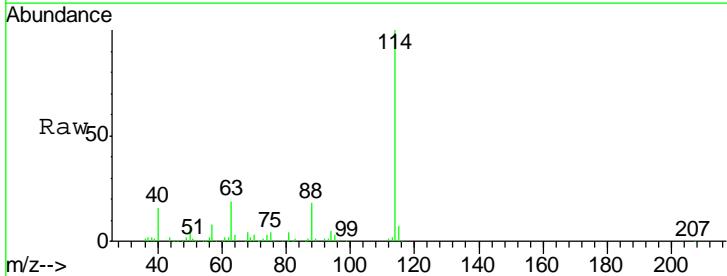
Instrument : MSVOA\_F  
 ClientSampled : CS-8

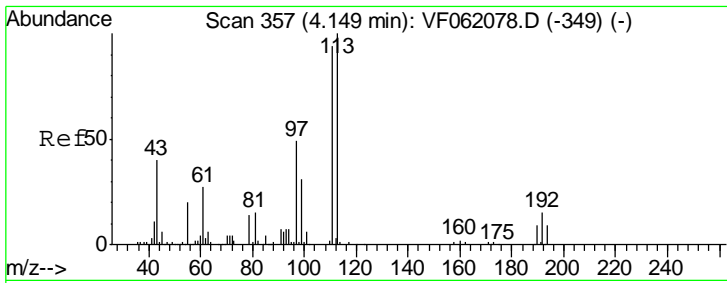
Tgt Ion	Resp	Lower	Upper
65	49374		
65	100		
67	42.5	0.0	106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.61 min Scan# 505  
 Delta R.T. -0.01 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion	Resp	Lower	Upper
114	221035		
114	100		
63	18.9	0.0	37.8
88	18.2	0.0	36.4

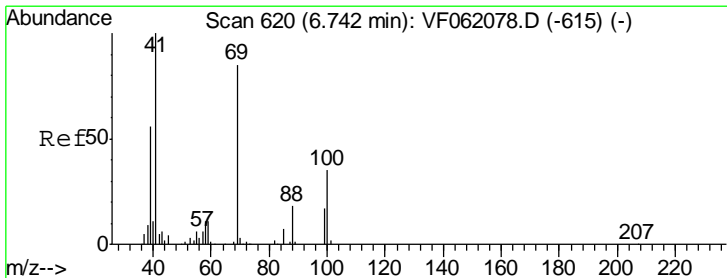
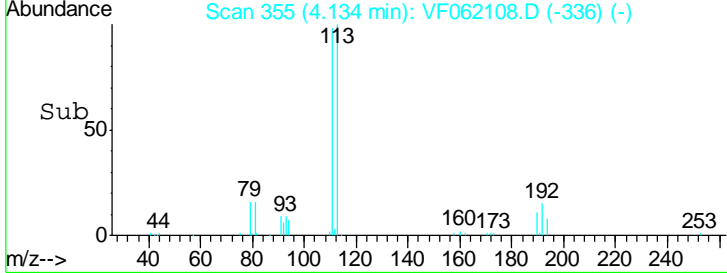
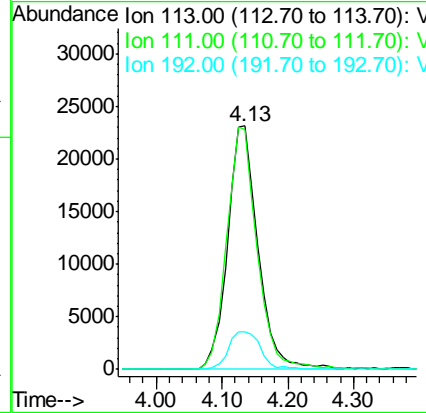
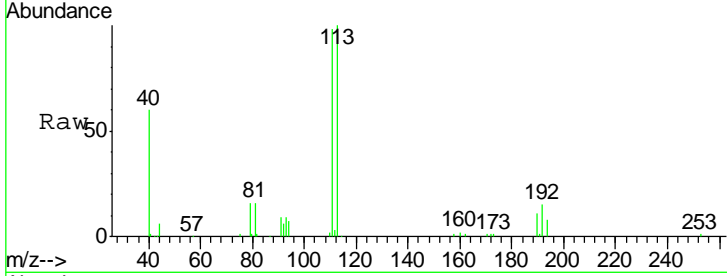




#35  
 Dibromofluoromethane  
 Concen: 49.840 ug/l  
 RT: 4.13 min Scan# 355  
 Delta R.T. -0.01 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

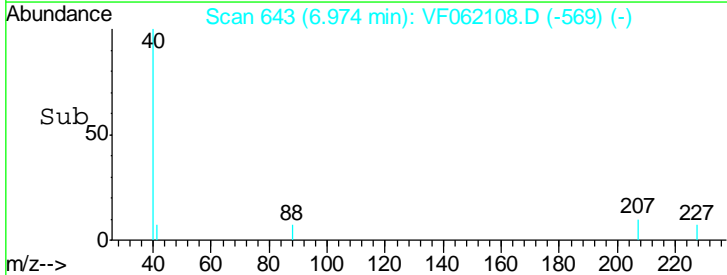
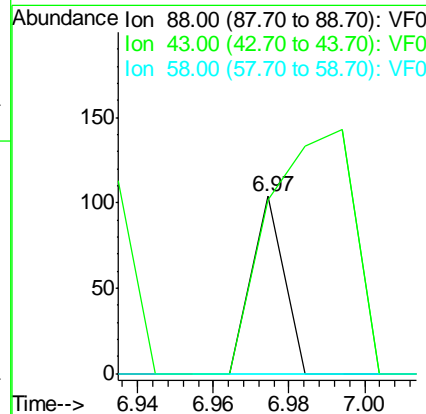
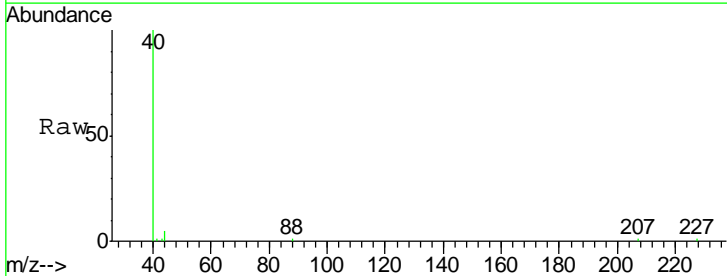
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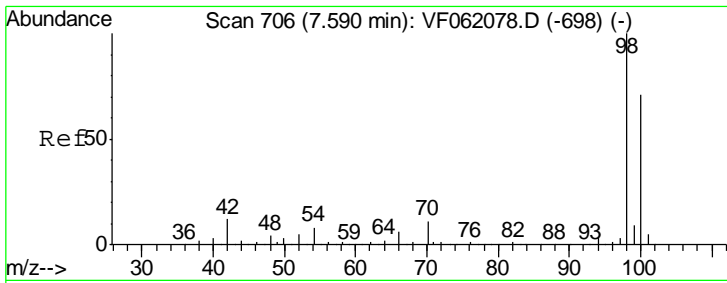
Tgt Ion	Resp	Lower	Upper
113	74521		
111	98.3	75.4	113.0
192	15.2	12.3	18.5



#49  
 1,4-Dioxane  
 Concen: 11.137 ug/l  
 RT: 6.97 min Scan# 643  
 Delta R.T. 0.23 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion	Resp	Lower	Upper
88	62		
43	98.1	35.0	52.4#
58	0.0	49.9	74.9#

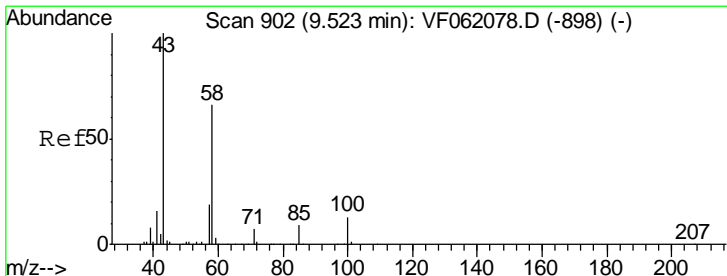
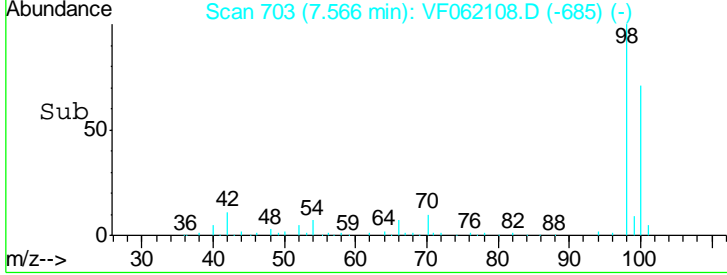
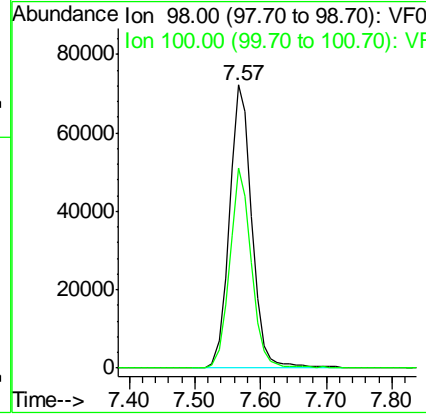
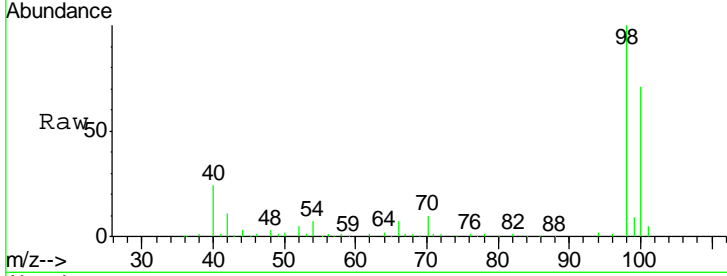




#50  
 Toluene-d8  
 Concen: 38.666 ug/l  
 RT: 7.57 min Scan# 703  
 Delta R.T. -0.02 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

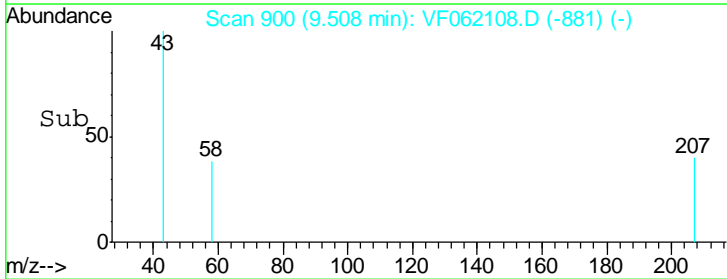
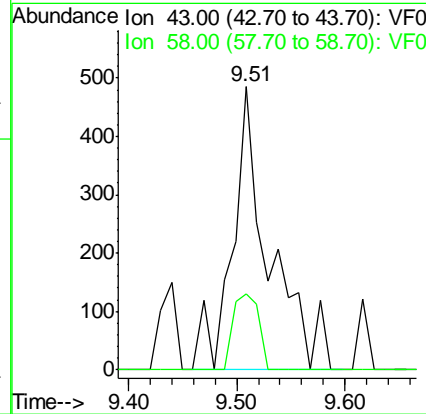
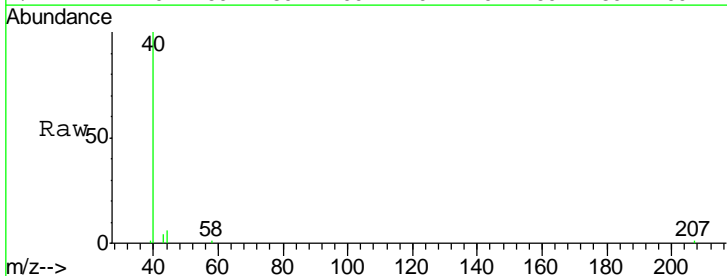
**Instrument :**  
 MSVOA\_F  
**ClientSampled :**  
 CS-8

Tgt Ion: 98 Resp: 172577  
 Ion Ratio Lower Upper  
 98 100  
 100 70.5 57.0 85.6

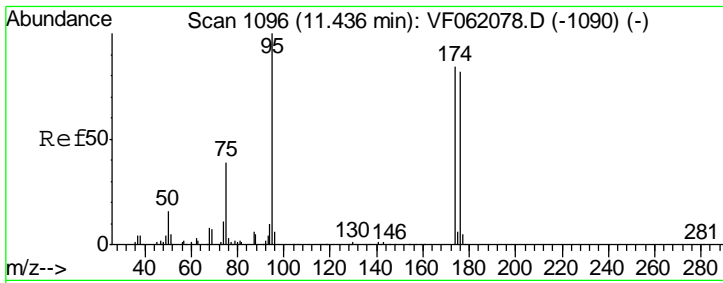


#59  
 2-Hexanone  
 Concen: 2.126 ug/l  
 RT: 9.51 min Scan# 900  
 Delta R.T. -0.01 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion: 43 Resp: 1162  
 Ion Ratio Lower Upper  
 43 100  
 58 26.6 28.8 86.4#



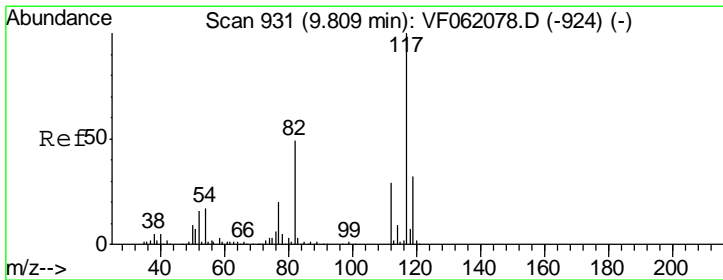
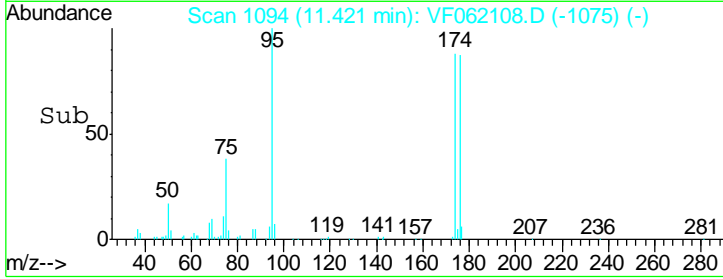
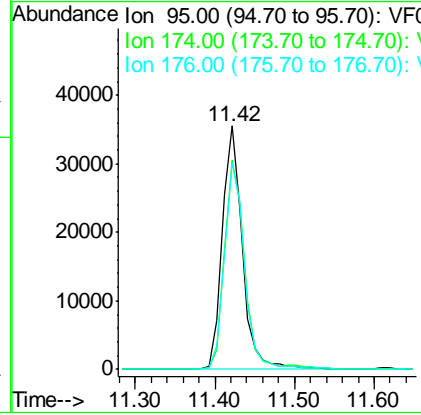
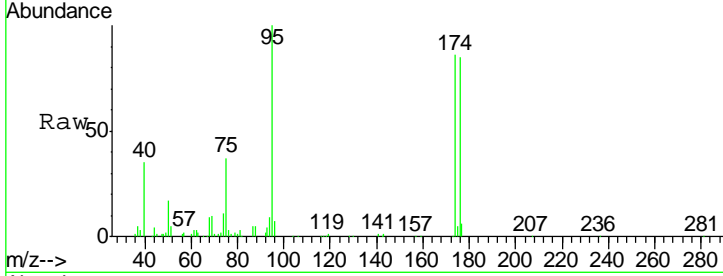




#62  
 4-Bromofluorobenzene  
 Concen: 36.868 ug/l  
 RT: 11.42 min Scan# 1094  
 Delta R.T. -0.01 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

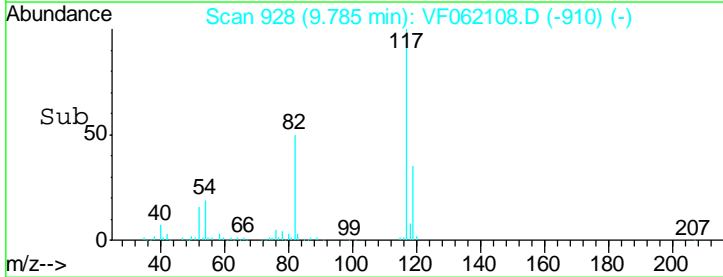
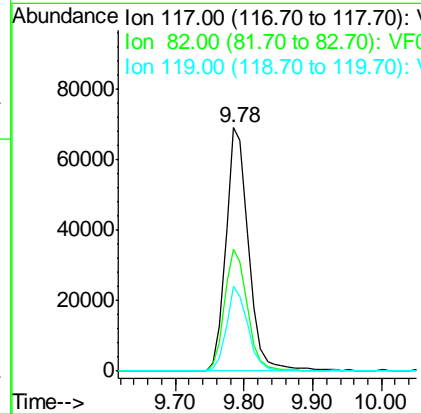
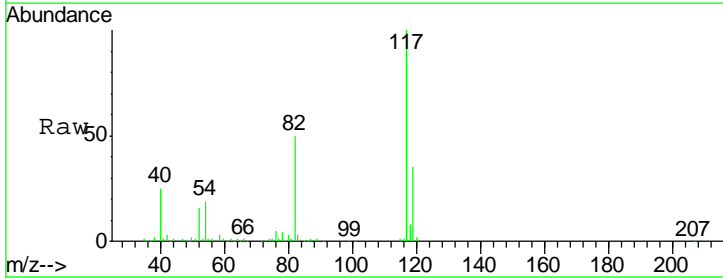
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 CS-8

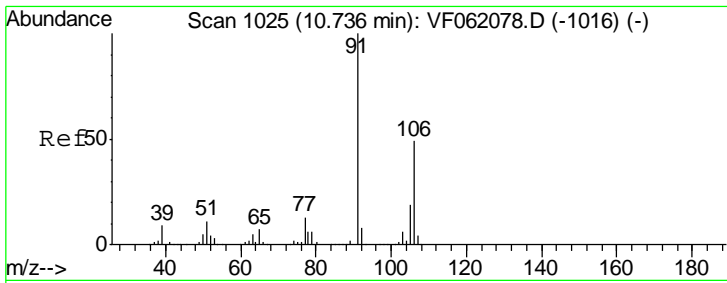
Tgt Ion	Resp	Lower	Upper
95	63525		
174	85.7	0.0	168.2
176	84.8	0.0	164.2



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.78 min Scan# 928  
 Delta R.T. -0.02 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion	Resp	Lower	Upper
117	157221		
82	49.9	39.2	58.8
119	34.9	25.4	38.2

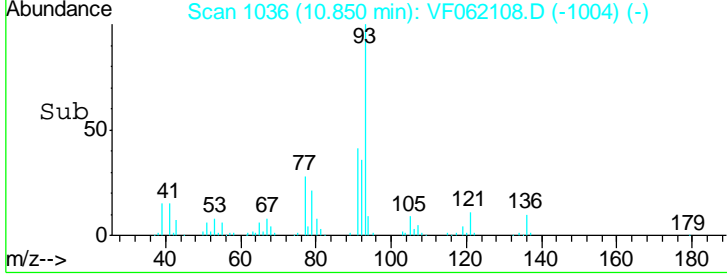
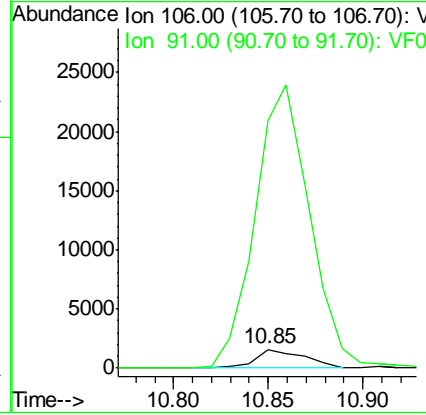
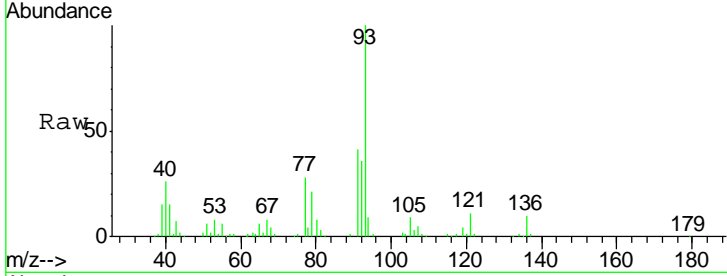




#69  
 o-Xylene  
 Concen: 1.415 ug/l  
 RT: 10.85 min Scan# 1036  
 Delta R.T. 0.11 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Instrument : MSVOA\_F  
 ClientSampled : CS-8

Tgt Ion:106 Resp: 2833  
 Ion Ratio Lower Upper  
 106 100  
 91 1333.7 102.6 307.8#



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.56 min Scan# 1209  
 Delta R.T. -0.01 min  
 Lab File: VF062108.D  
 Acq: 23 Mar 2019 5:50

Tgt Ion:152 Resp: 71859  
 Ion Ratio Lower Upper  
 152 100  
 115 60.1 27.7 83.1  
 150 160.1 0.0 313.2

