

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059642.D
 Acq On : 24 Jul 2018 20:45
 Operator : VA/AP
 Sample : VF0724SBL01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 92 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampled :

Quant Time: Jul 25 05:10:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 02:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	258170	50.00	µg/l	0.00
34) 1,4-Difluorobenzene	5.75	114	354390	50.00	µg/l	0.00
63) Chlorobenzene-d5	9.91	117	322871	50.00	µg/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	214133	50.00	µg/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.00	65	170868	47.50	µg/l	0.00
Spiked Amount	50.000		Recovery	=	95.00%	
35) Dibromofluoromethane	4.28	113	169950	53.29	µg/l	0.00
Spiked Amount	50.000		Recovery	=	106.58%	
50) Toluene-d8	7.68	98	463888	59.68	µg/l	-0.01
Spiked Amount	50.000		Recovery	=	119.36%	
62) 4-Bromofluorobenzene	11.51	95	194792	48.77	µg/l	0.00
Spiked Amount	50.000		Recovery	=	97.54%	

Target Compounds

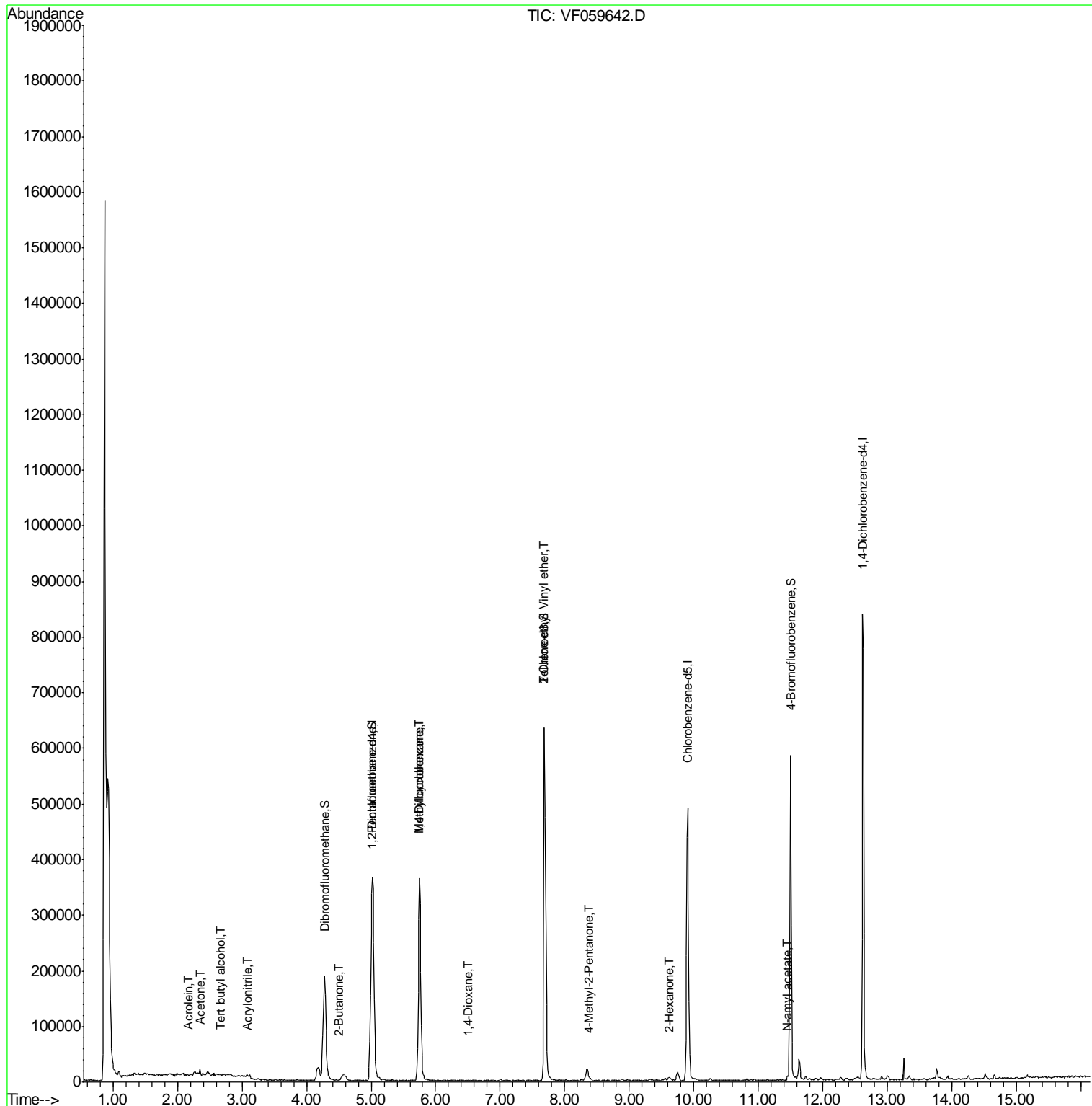
					Qvalue	
3) Chloromethane	1.10	50	995	Below Cal	#	40
5) Bromomethane	1.18	94	80	Below Cal		90
9) 1,1,2-Trichlorotrifluoroet	1.89	101	271	Below Cal	#	17
11) Tert butyl alcohol	2.66	59	361	2.695	µg/l #	1
12) 1,1-Dichloroethene	1.86	96	200	Below Cal	#	1
13) Acrolein	2.16	56	610	9.287	µg/l	91
15) Acrylonitrile	3.07	53	1428	6.193	µg/l #	50
16) Acetone	2.34	43	3694	6.625	µg/l	99
17) Carbon Disulfide	1.82	76	184	Below Cal	#	1
18) Methyl Acetate	2.50	43	1738	Below Cal	#	62
20) Methylene Chloride	2.27	84	3400	Below Cal	#	81
25) 2-Butanone	4.50	43	535	2.869	µg/l #	61
26) 2,2-Dichloropropane	3.76	77	309	Below Cal	#	63
28) Bromochloromethane	3.94	49	128	Below Cal	#	11
29) Tetrahydrofuran	4.24	42	637	Below Cal	#	49
37) Ethyl Acetate	4.26	43	354	Below Cal	#	1
39) Methylcyclohexane	5.75	83	6006	2.040	µg/l #	31
49) 1,4-Dioxane	6.52	88	63	6.964	µg/l #	22
51) 4-Methyl-2-Pentanone	8.39	43	2466	2.101	µg/l	99
52) Toluene	7.74	92	342	Below Cal	#	18
58) 2-Chloroethyl Vinyl ether	7.69	63	773	3.762	µg/l	100
59) 2-Hexanone	9.62	43	6087	6.791	µg/l	99
74) N-amyl acetate	11.46	43	5412	1.875	µg/l	92
87) 1,3-Dichlorobenzene	12.55	146	1571	Below Cal	#	72
89) n-Butylbenzene	12.92	91	2359	Below Cal		87
93) 1,2,4-Trichlorobenzene	14.27	180	1427	Below Cal		72

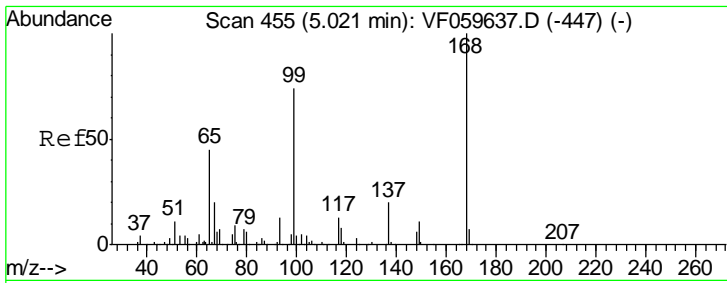
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 MSVOA_F
 ClientSampleId :

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
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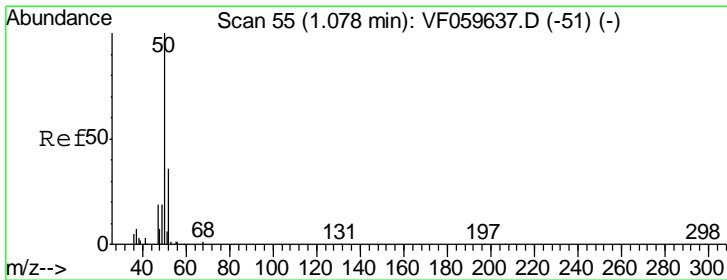
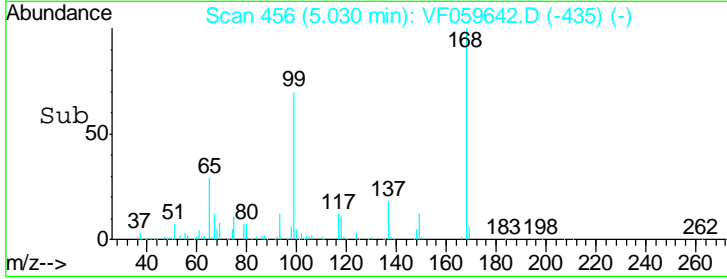
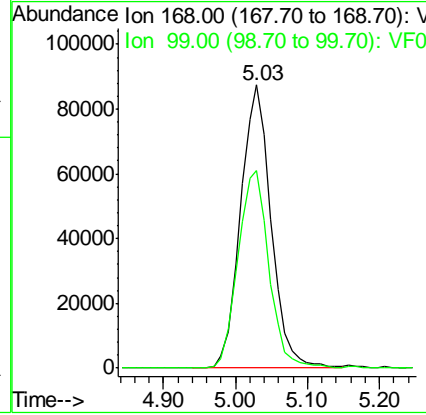
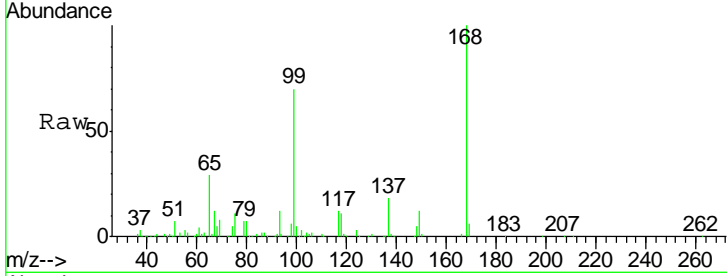




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

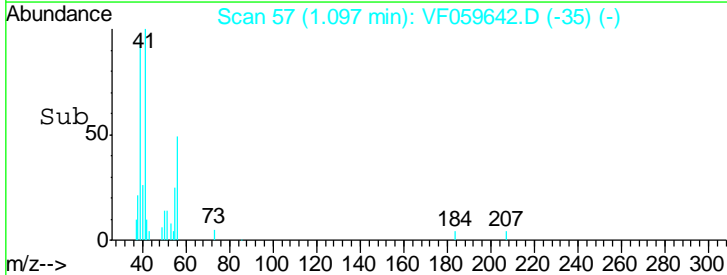
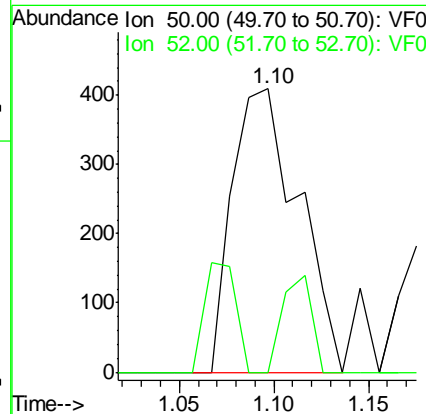
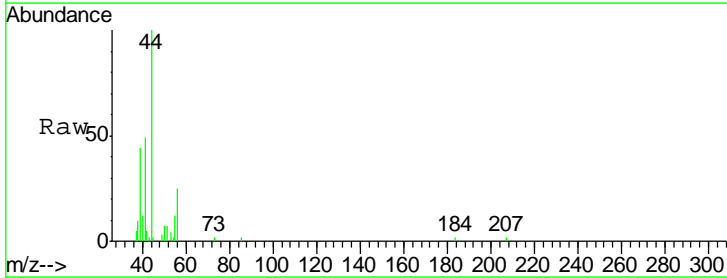
Instrument :
 MSVOA_F
 ClientSampled :

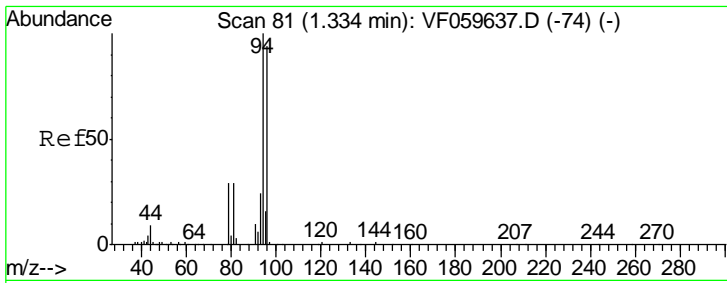
Tgt Ion	Resp	Lower	Upper
168	100		
99	70.0	59.5	89.3



#3
 Chloromethane
 Concen: Below Cal
 RT: 1.10 min Scan# 57
 Delta R.T. 0.02 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
50	100		
52	0.0	28.0	42.0#

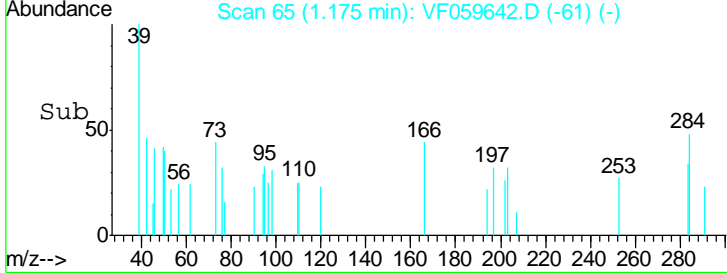
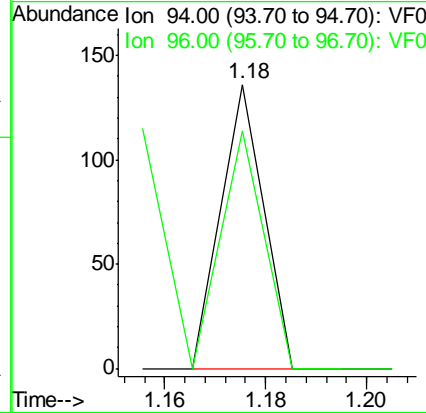
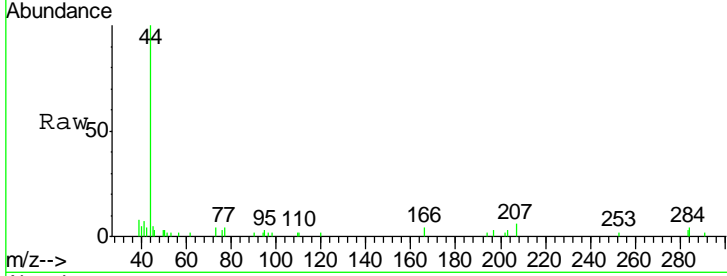




#5
 Bromomethane
 Concen: Below Cal
 RT: 1.18 min Scan# 65
 Delta R.T. -0.16 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

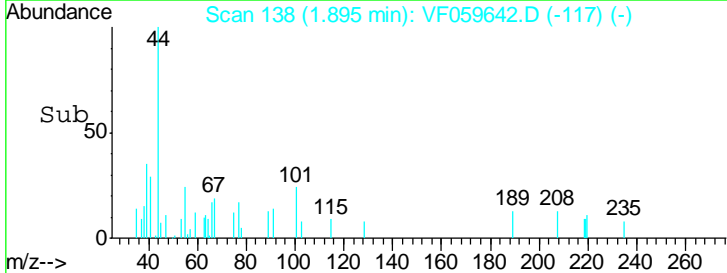
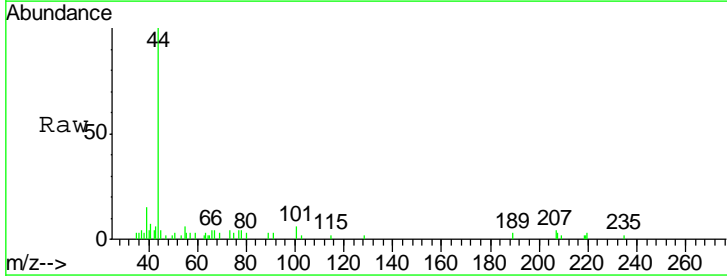
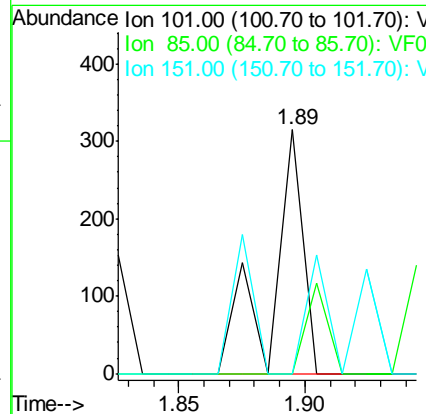
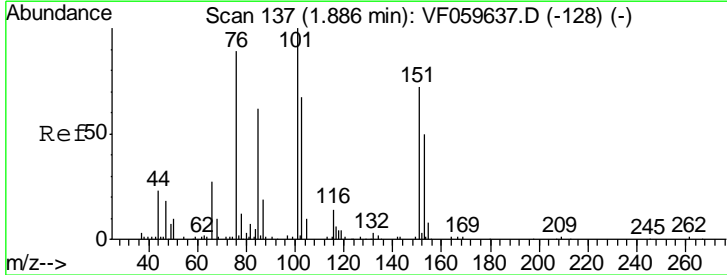
Instrument :
 MSVOA_F
 ClientSampled :

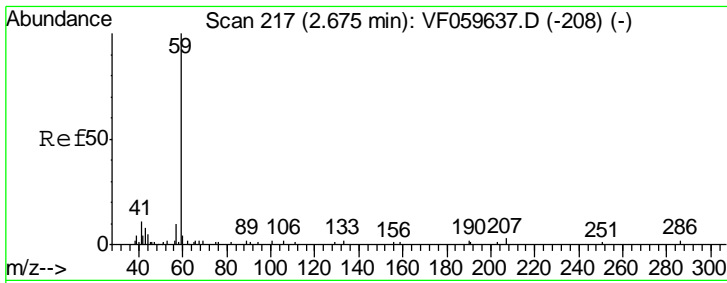
Tgt Ion	Resp	Lower	Upper
94	100		
96	83.8	74.6	112.0



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: Below Cal
 RT: 1.89 min Scan# 138
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
101	100		
85	0.0	49.0	73.4#
151	0.0	56.8	85.2#

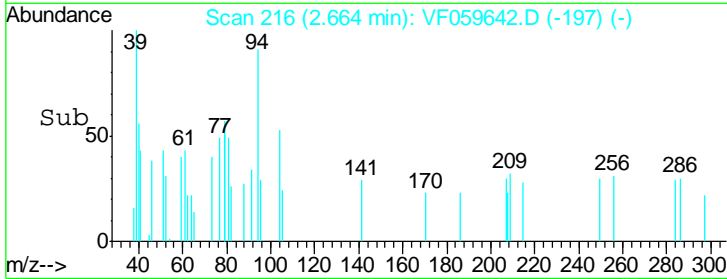
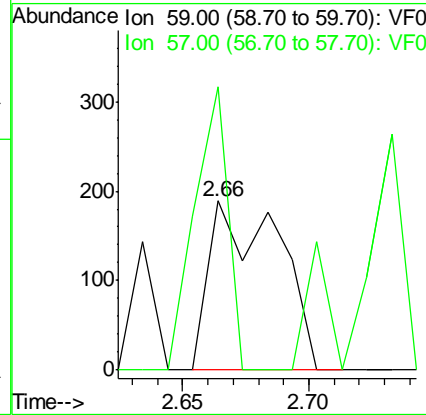
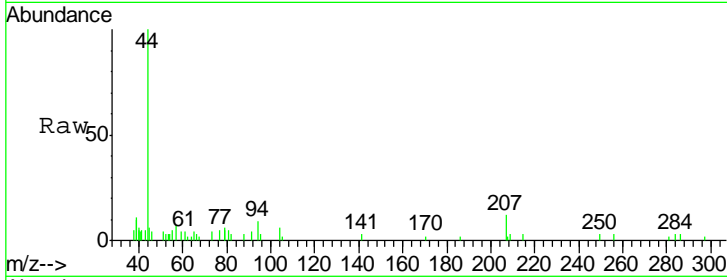




#11
 Tert butyl alcohol
 Concen: 2.695 ug/l
 RT: 2.66 min Scan# 216
 Delta R.T. -0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

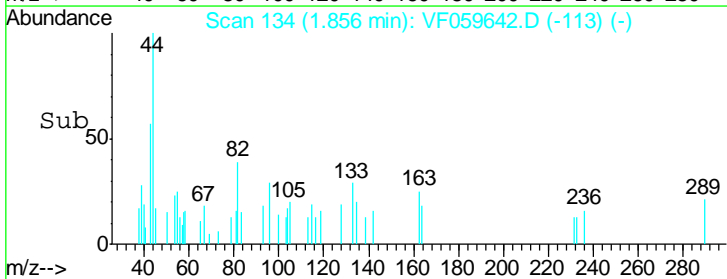
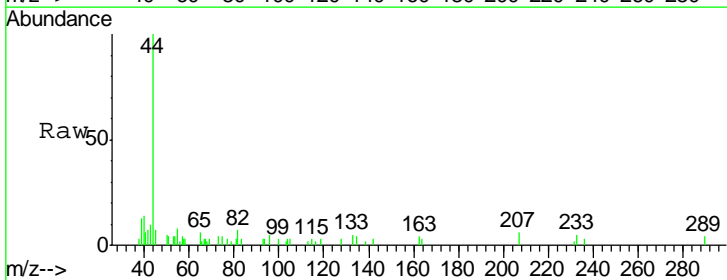
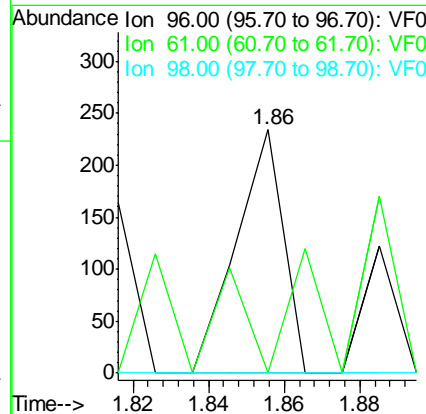
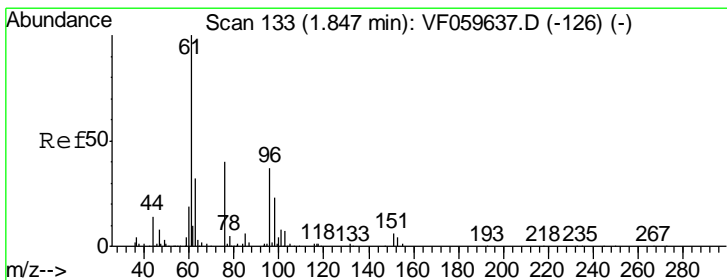
Instrument :
 MSVOA_F
 ClientSampled :

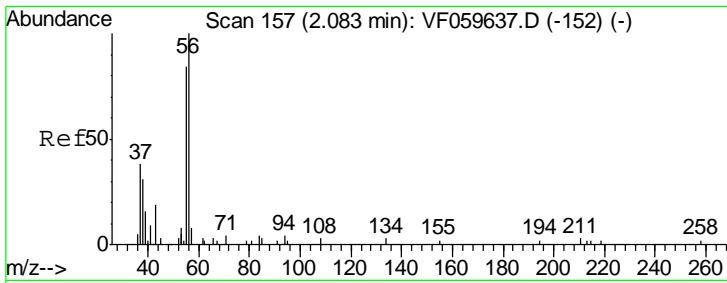
Tgt Ion	Resp	Lower	Upper
59	100		
57	167.7	11.4	17.2#



#12
 1,1-Dichloroethene
 Concen: Below Cal
 RT: 1.86 min Scan# 134
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
96	100		
61	0.0	218.2	327.4#
98	0.0	50.6	76.0#

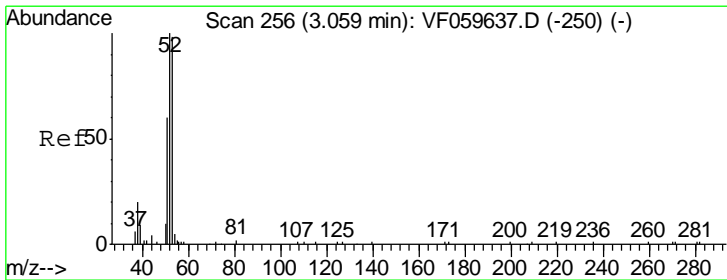
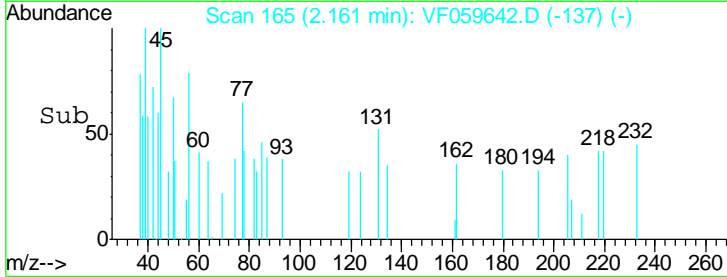
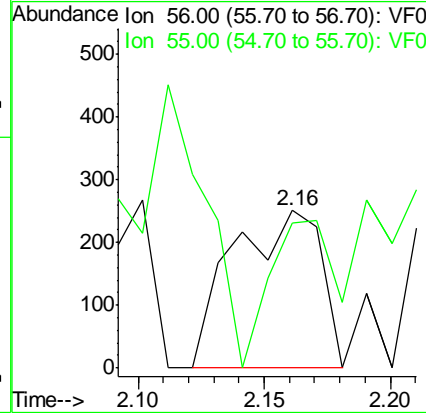
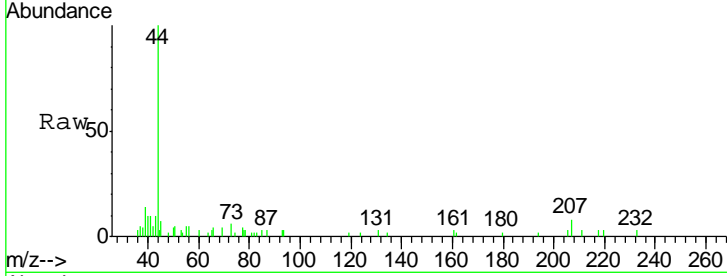




#13
 Acrolein
 Concen: 9.287 ug/l
 RT: 2.16 min Scan# 165
 Delta R.T. 0.08 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

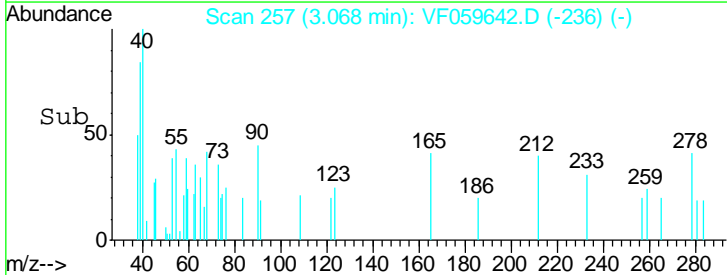
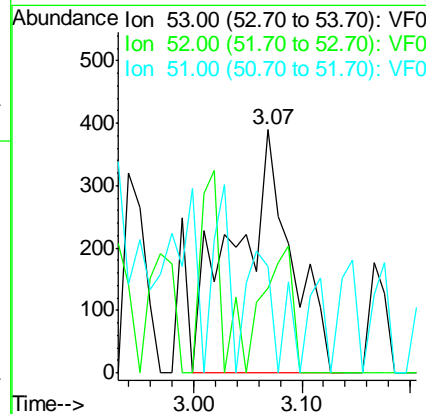
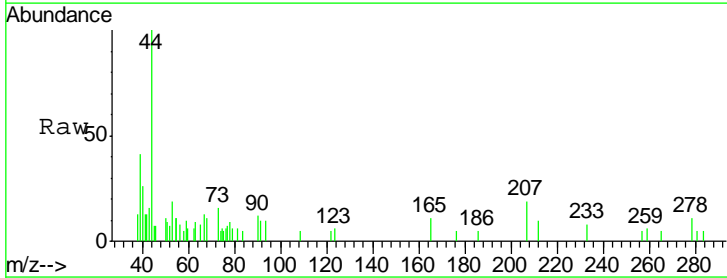
Instrument :
 MSVOA_F
 ClientSampled :

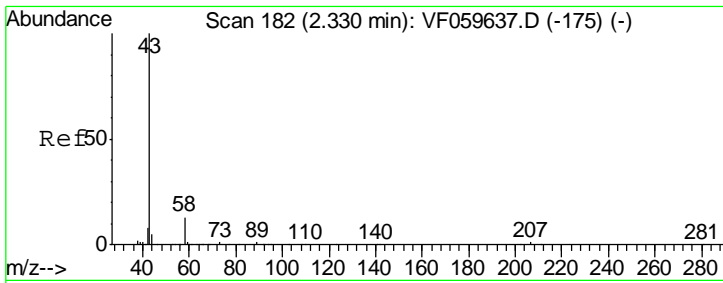
Tgt Ion:	56	Resp:	610
Ion Ratio	Lower	Upper	
56	100		
55	92.0	67.2	100.8



#15
 Acrylonitrile
 Concen: 6.193 ug/l
 RT: 3.07 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion:	53	Resp:	1428
Ion Ratio	Lower	Upper	
53	100		
52	34.6	80.9	121.3#
51	43.8	49.4	74.2#

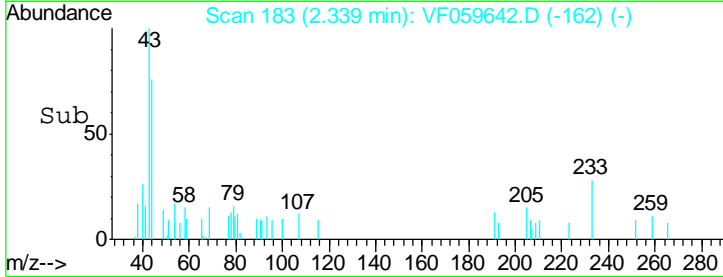
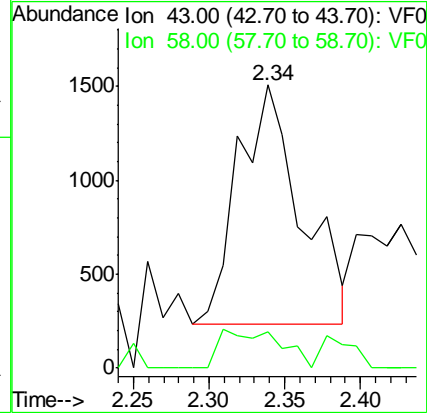
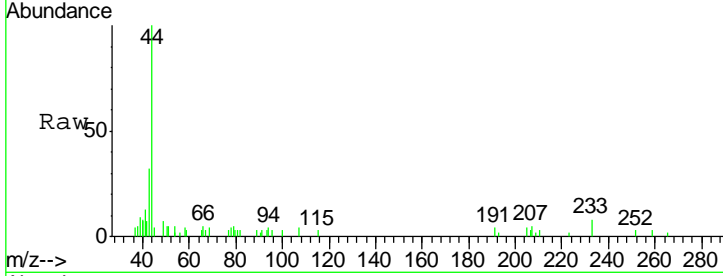




#16
 Acetone
 Concen: 6.625 ug/l
 RT: 2.34 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

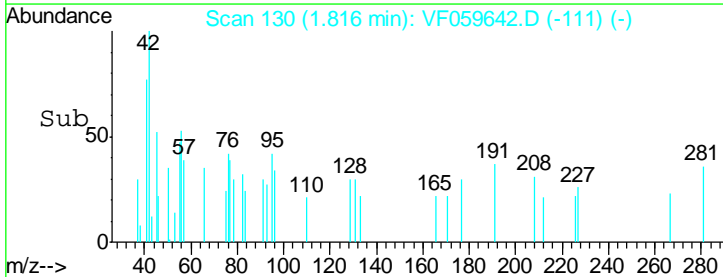
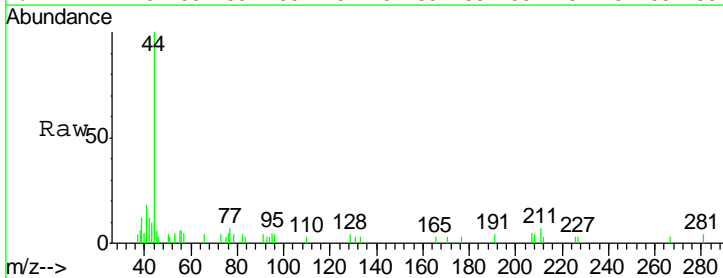
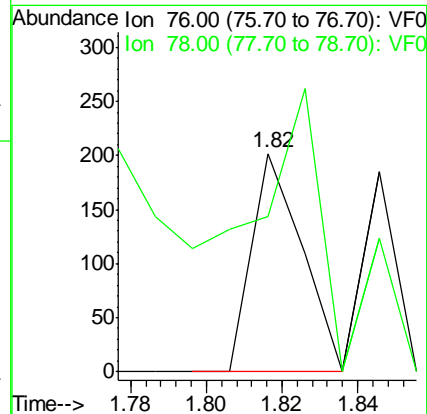
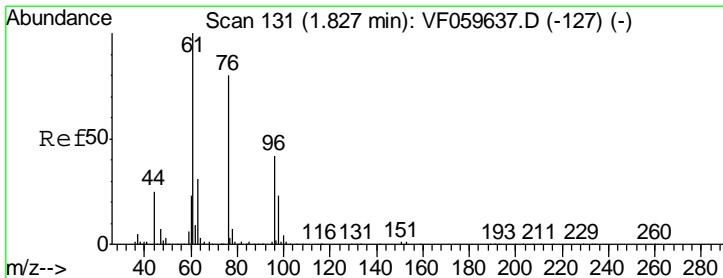
Instrument :
 MSVOA_F
 ClientSampled :

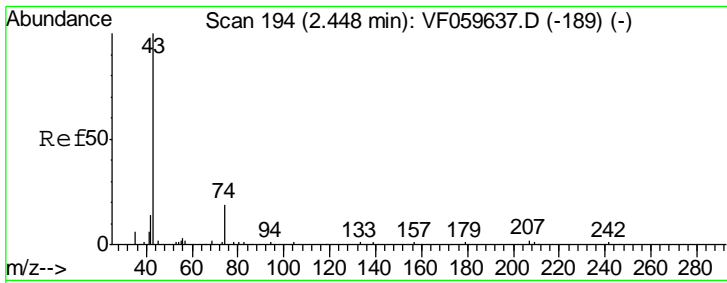
Tgt Ion	Resp	Lower	Upper
43	100		
58	12.9	10.2	15.2



#17
 Carbon Disulfide
 Concen: Below Cal
 RT: 1.82 min Scan# 130
 Delta R.T. -0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
76	100		
78	71.3	7.0	10.6#

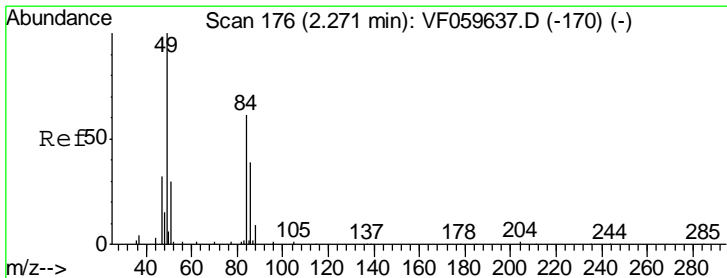
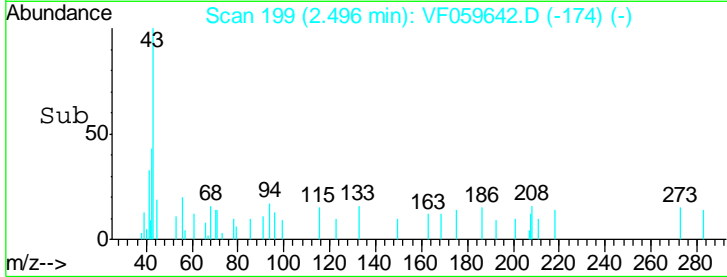
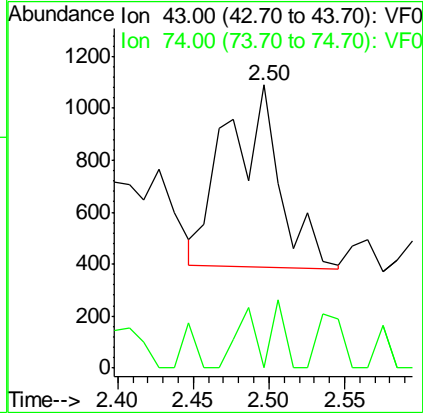
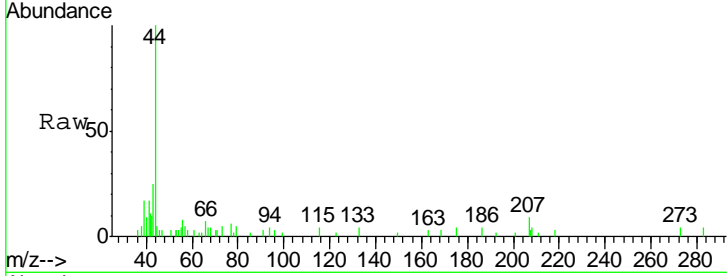




#18
Methyl Acetate
Concen: Below Cal
RT: 2.50 min Scan# 199
Delta R.T. 0.05 min
Lab File: VF059642.D
Acq: 24 Jul 2018 20:45

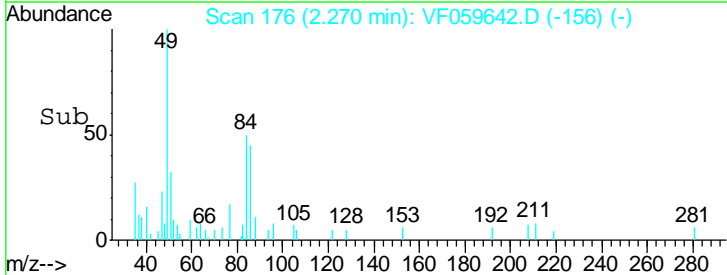
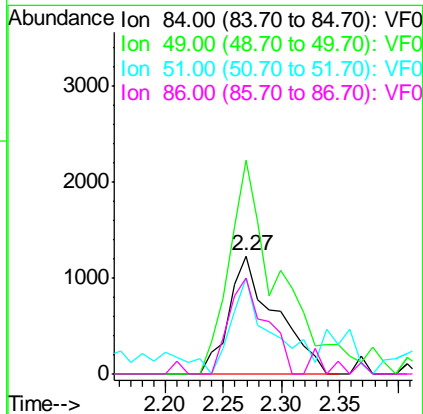
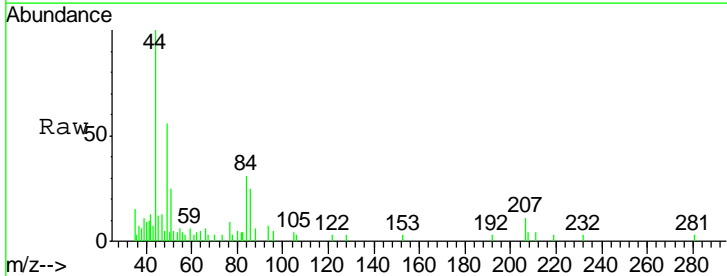
Instrument :
MSVOA_F
ClientSampled :

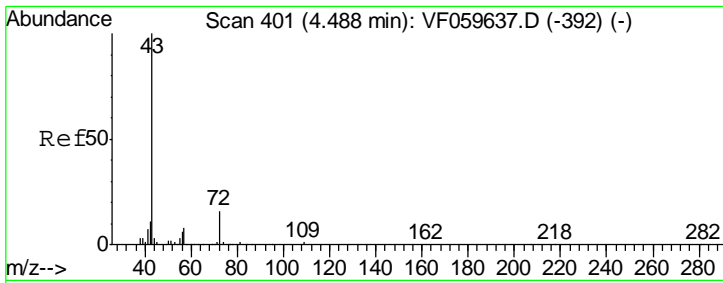
Tgt Ion: 43 Resp: 1738
Ion Ratio Lower Upper
43 100
74 0.0 13.0 19.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059642.D
Acq: 24 Jul 2018 20:45

Tgt Ion: 84 Resp: 3400
Ion Ratio Lower Upper
84 100
49 181.4 133.8 200.8
51 81.7 41.1 61.7#
86 81.7 51.0 76.6#

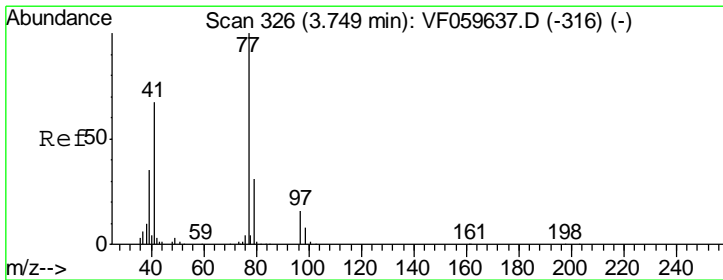
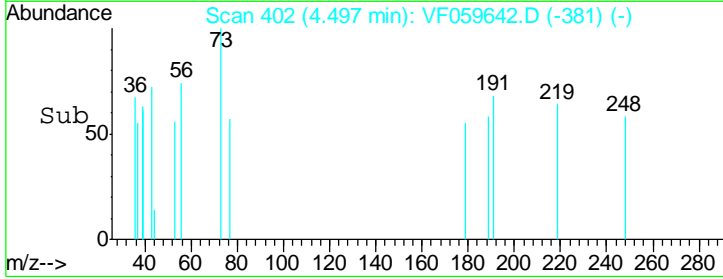
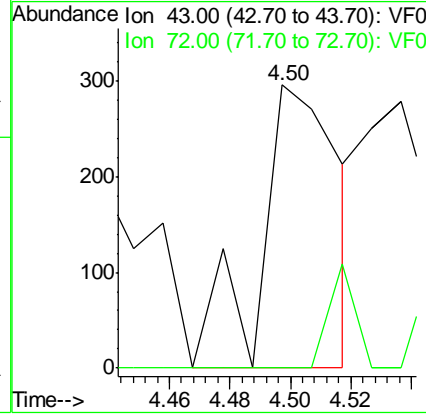
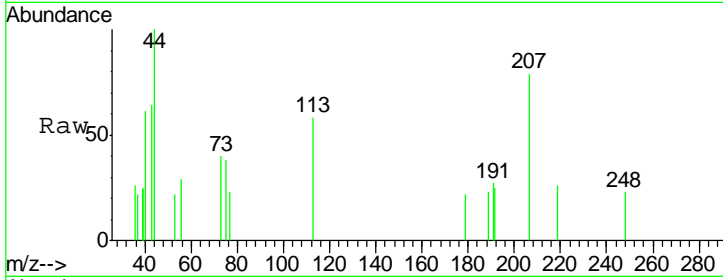




#25
 2-Butanone
 Concen: 2.869 ug/l
 RT: 4.50 min Scan# 402
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

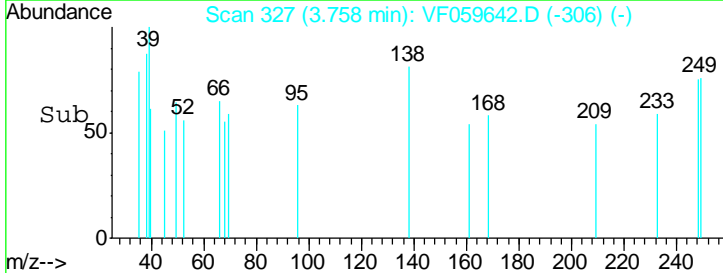
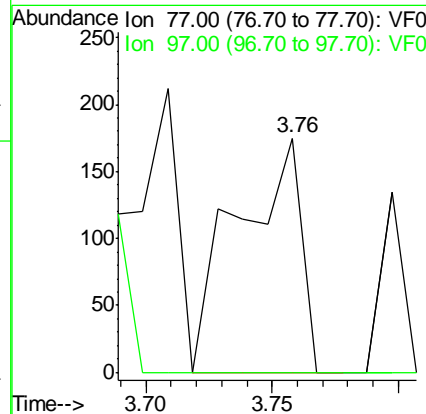
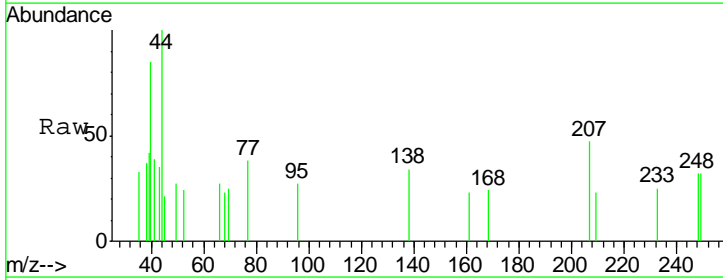
Instrument :
 MSVOA_F
 ClientSampled :

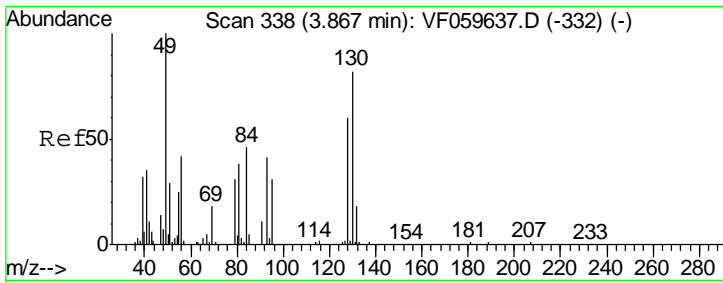
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	13.5	20.3#



#26
 2,2-Dichloropropane
 Concen: Below Cal
 RT: 3.76 min Scan# 327
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
77	100		
97	0.0	7.8	23.3#

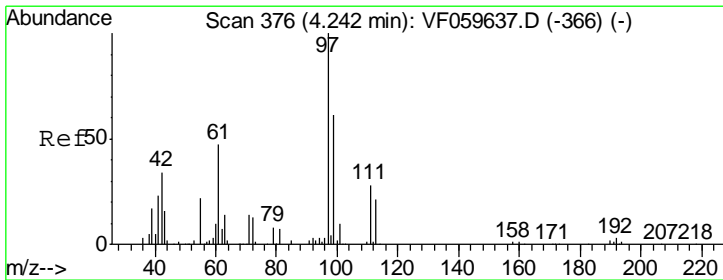
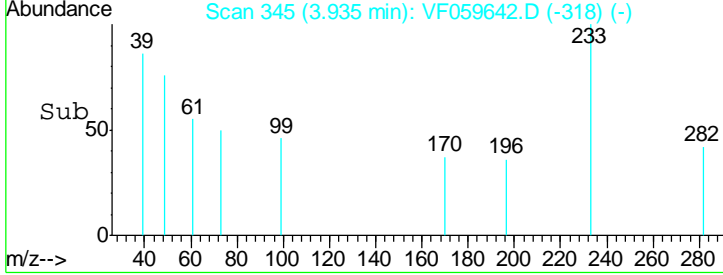
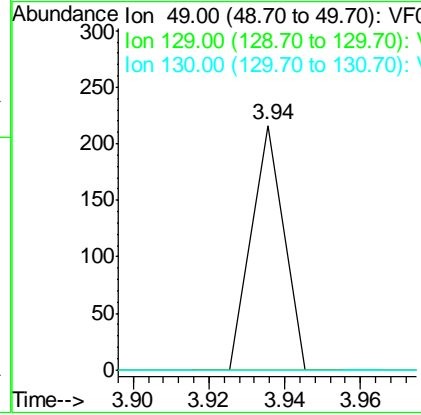
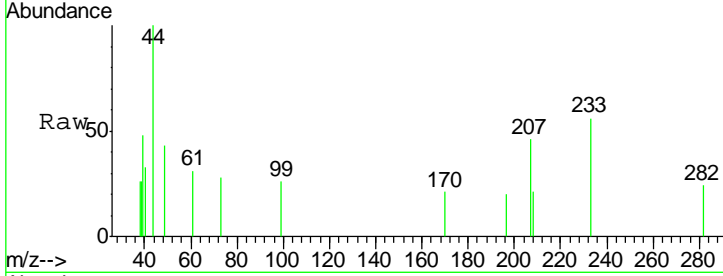




#28
 Bromochloromethane
 Concen: Below Cal
 RT: 3.94 min Scan# 345
 Delta R.T. 0.07 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

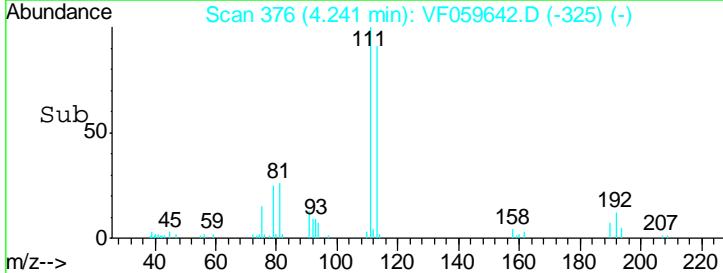
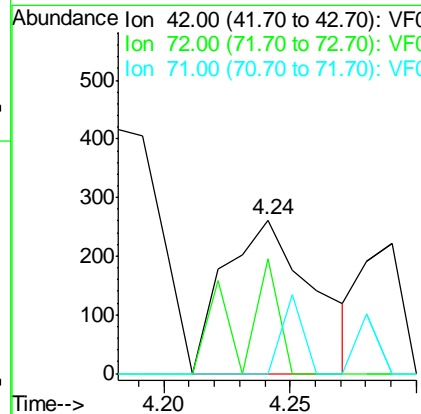
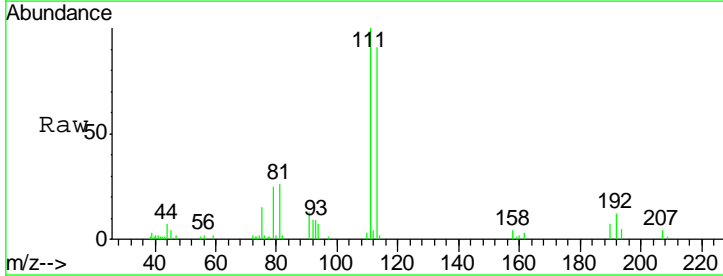
Instrument :
 MSVOA_F
 ClientSampled :

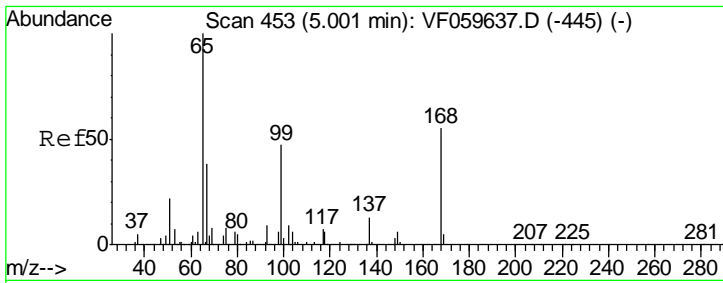
Tgt Ion	Resp	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	0.0	65.0	97.4#



#29
 Tetrahydrofuran
 Concen: Below Cal
 RT: 4.24 min Scan# 376
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
42	100		
72	0.0	30.0	45.0#
71	12.6	28.6	42.8#

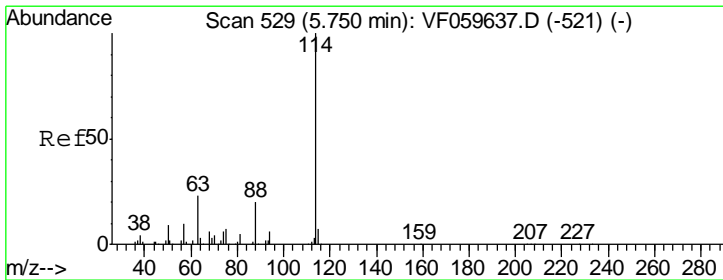
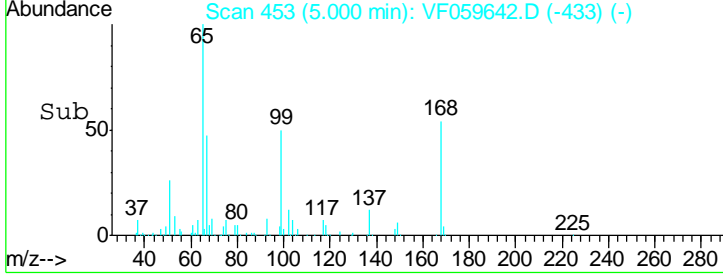
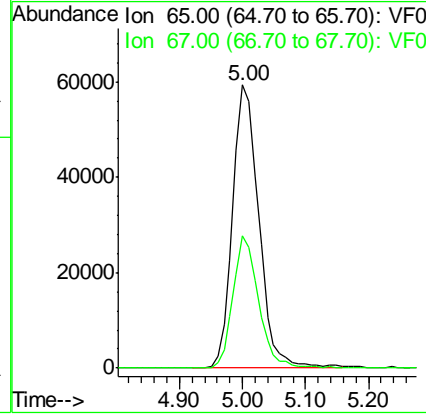
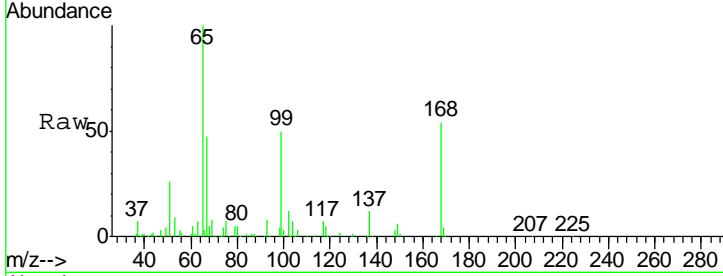




#33
 1,2-Dichloroethane-d4
 Concen: 47.500 ug/l
 RT: 5.00 min Scan# 453
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

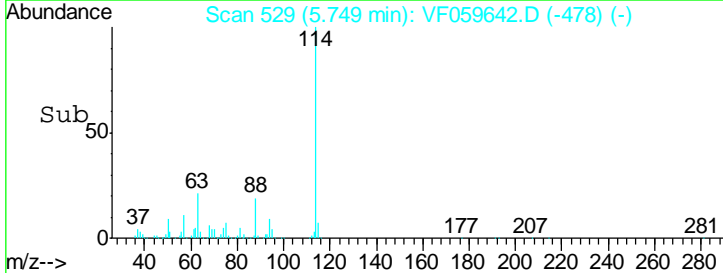
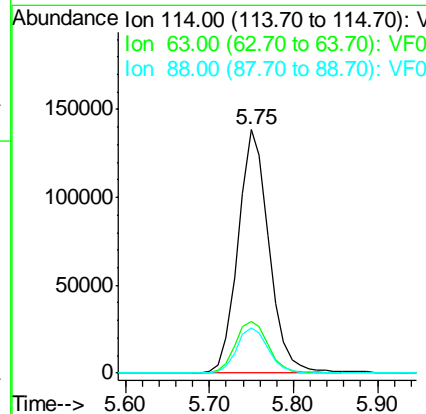
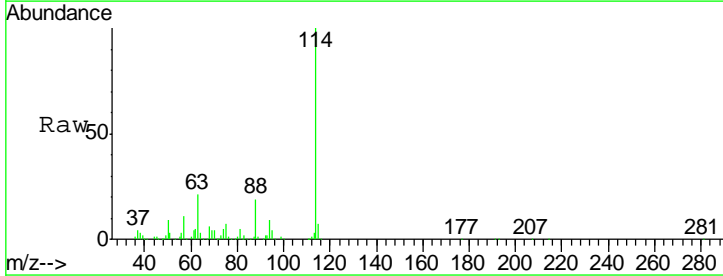
Instrument :
 MSVOA_F
 ClientSampled :

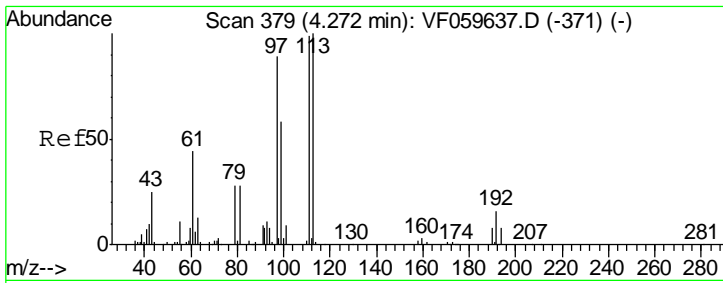
Tgt Ion	Resp	Lower	Upper
65	170868		
67	47.0	0.0	86.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 529
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
114	354390		
63	21.2	0.0	45.6
88	18.7	0.0	40.8

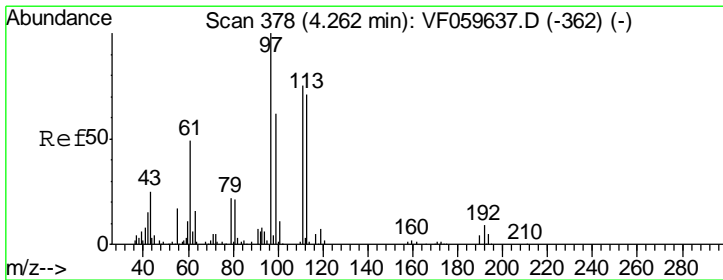
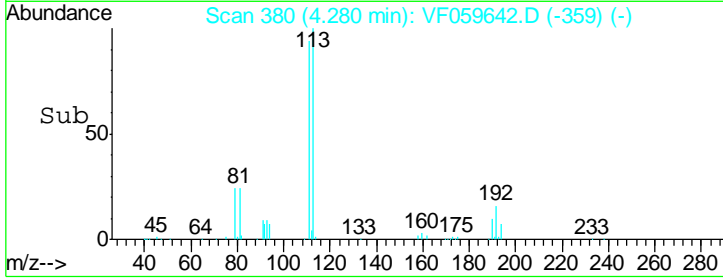
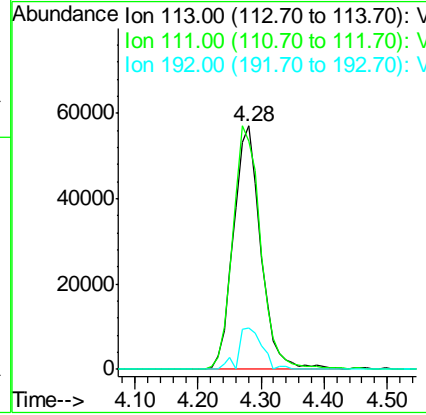
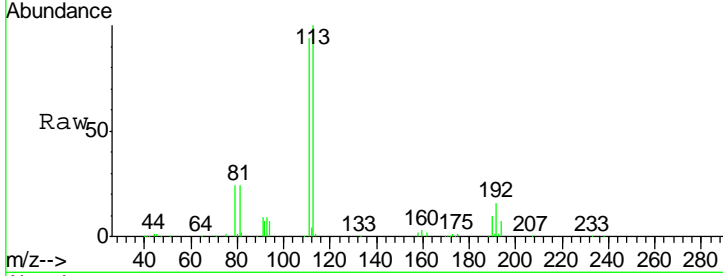




#35
 Dibromofluoromethane
 Concen: 53.286 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

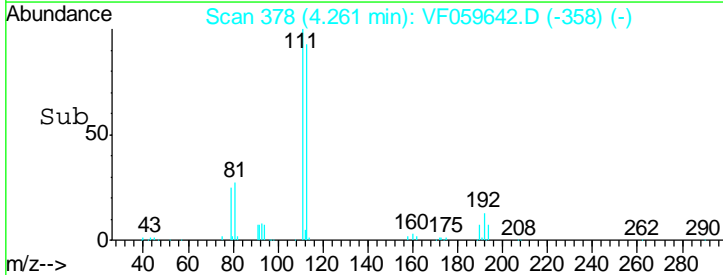
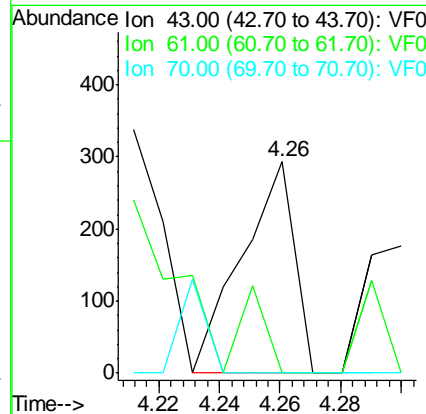
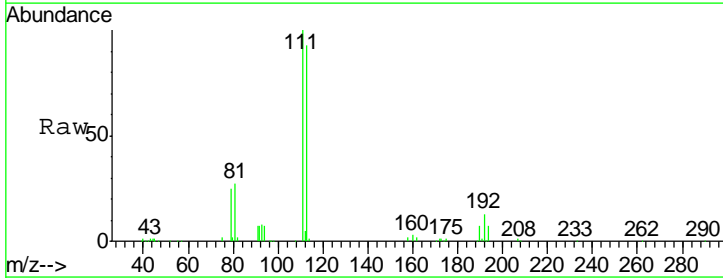
Instrument :
 MSVOA_F
 ClientSampled :

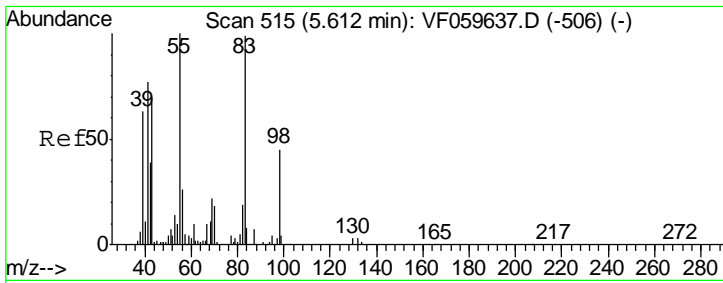
Tgt Ion	Resp	Lower	Upper
113	169950		
111	93.1	79.3	118.9
192	17.1	13.4	20.2



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.26 min Scan# 378
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
43	354		
43	100		
61	0.0	156.6	234.8#
70	0.0	7.3	10.9#

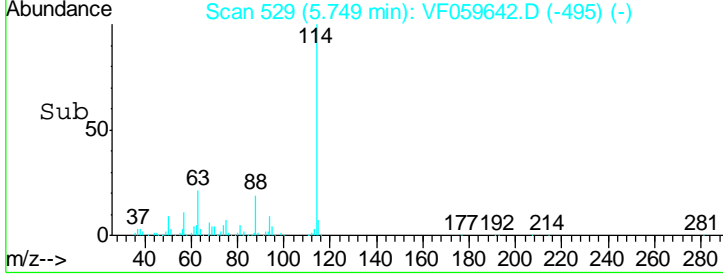
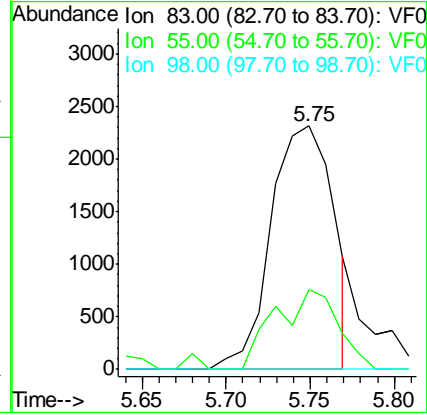
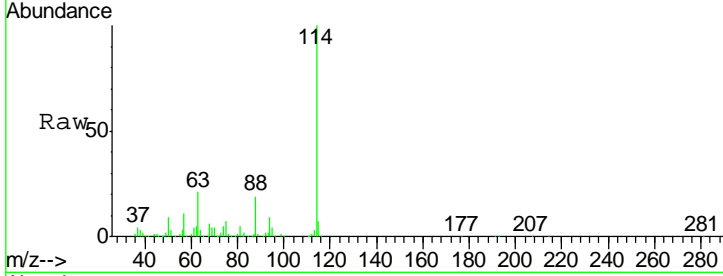




#39
 Methylcyclohexane
 Concen: 2.040 ug/l
 RT: 5.75 min Scan# 529
 Delta R.T. 0.14 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

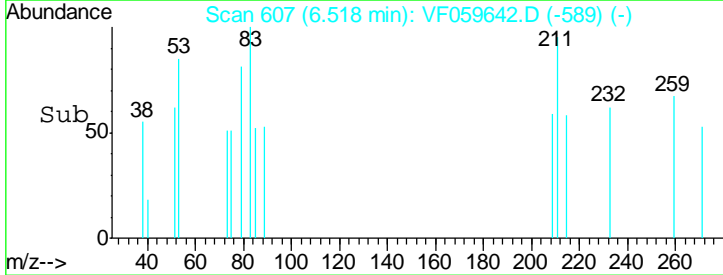
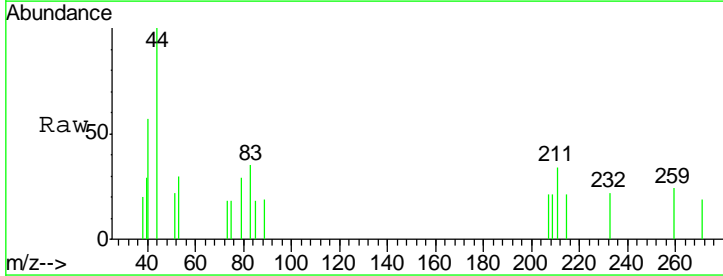
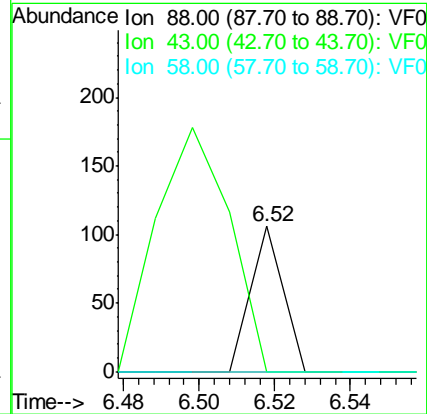
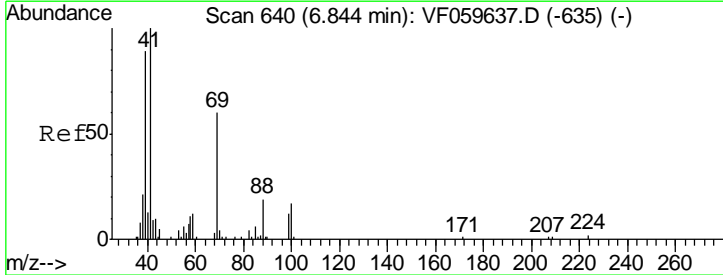
Instrument :
 MSVOA_F
 ClientSampled :

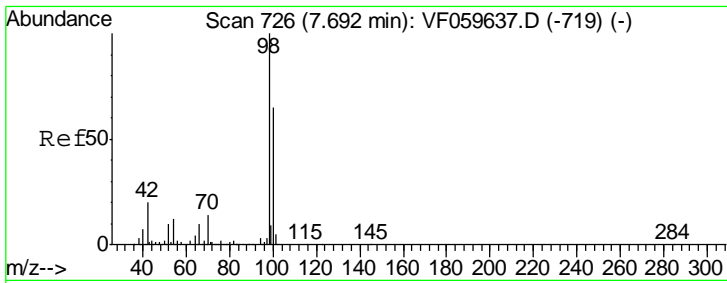
Tgt Ion	Resp	Lower	Upper
83	100		
55	32.6	81.5	122.3#
98	0.0	36.7	55.1#



#49
 1,4-Dioxane
 Concen: 6.964 ug/l
 RT: 6.52 min Scan# 607
 Delta R.T. -0.33 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
88	100		
43	0.0	45.3	67.9#
58	0.0	47.7	71.5#

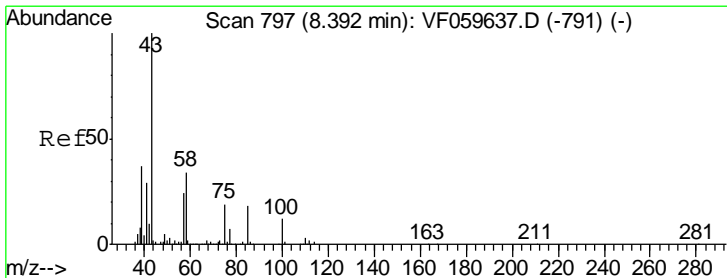
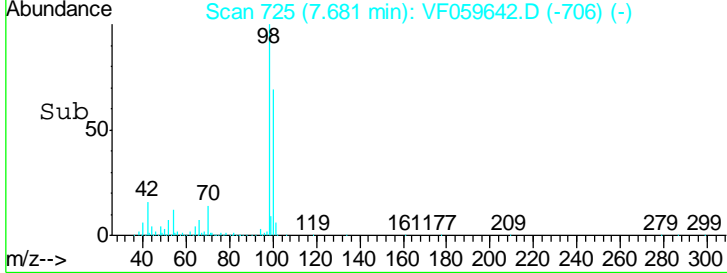
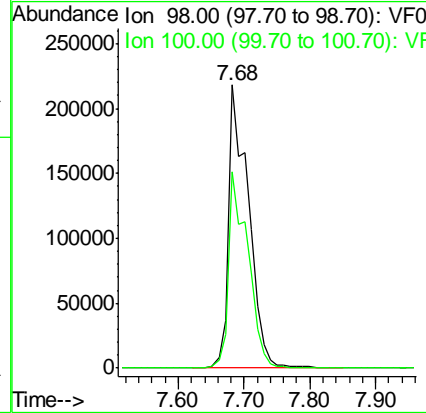
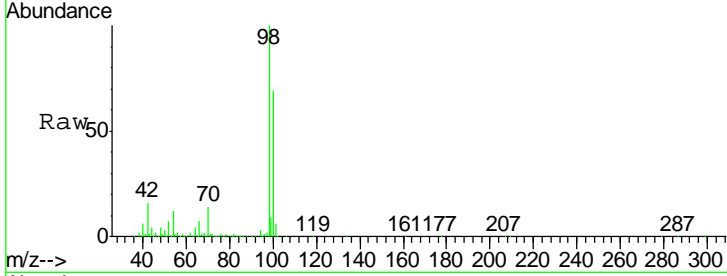




#50
 Toluene-d8
 Concen: 59.675 ug/l
 RT: 7.68 min Scan# 725
 Delta R.T. -0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

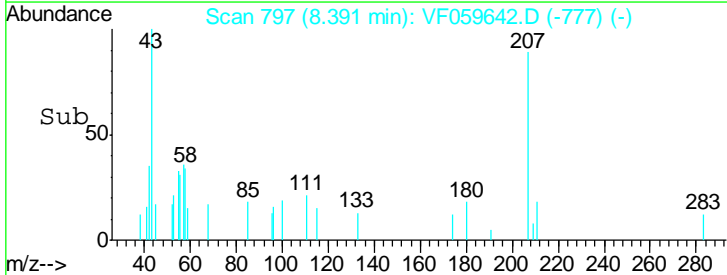
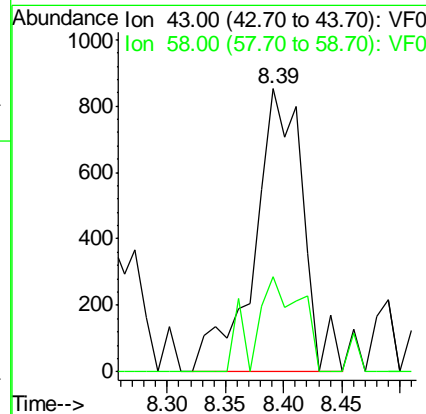
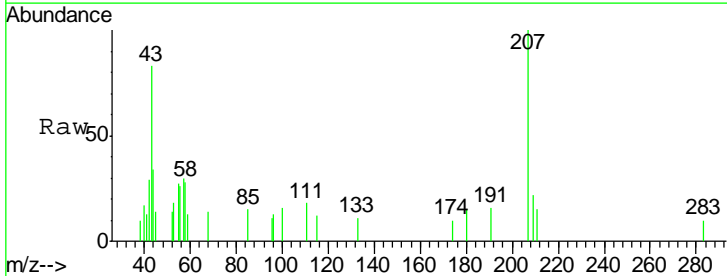
Instrument :
 MSVOA_F
 ClientSampled :

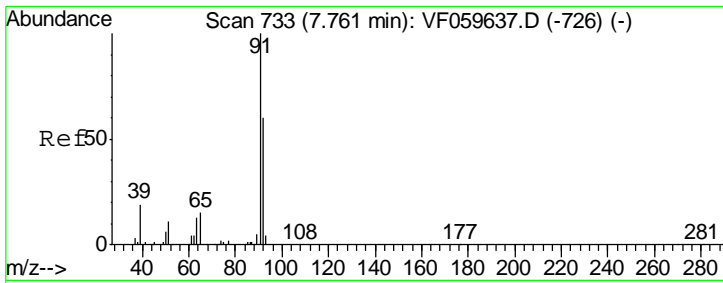
Tgt Ion: 98 Resp: 463888
 Ion Ratio Lower Upper
 98 100
 100 69.3 52.2 78.4



#51
 4-Methyl-2-Pentanone
 Concen: 2.101 ug/l
 RT: 8.39 min Scan# 797
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion: 43 Resp: 2466
 Ion Ratio Lower Upper
 43 100
 58 33.7 27.3 40.9

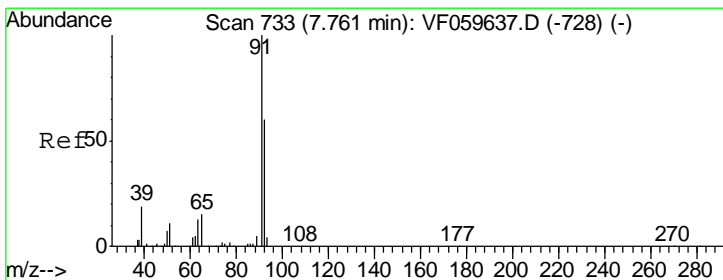
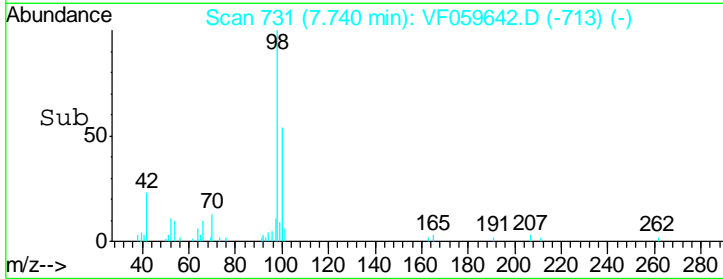
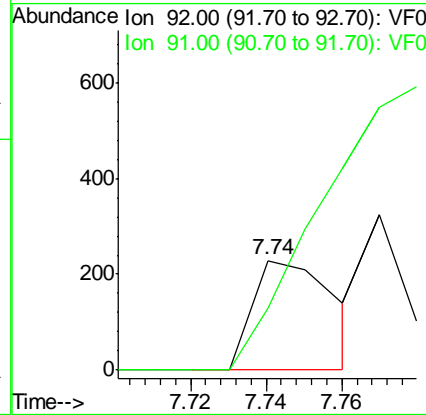
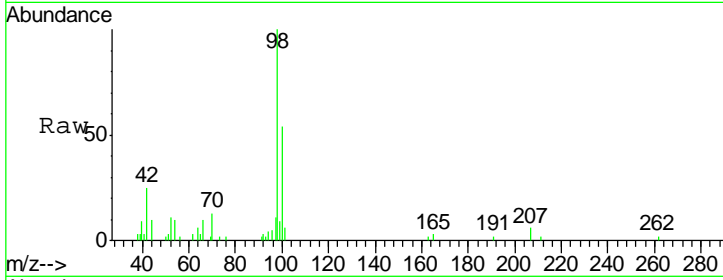




#52
 Toluene
 Concen: Below Cal
 RT: 7.74 min Scan# 731
 Delta R.T. -0.02 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

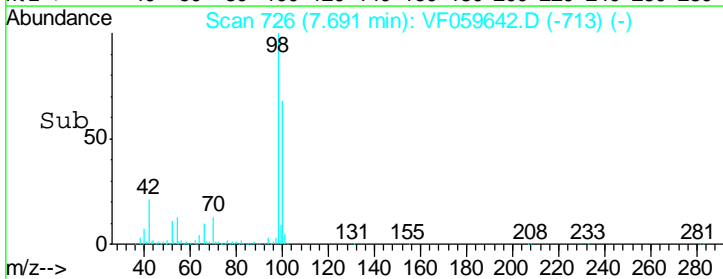
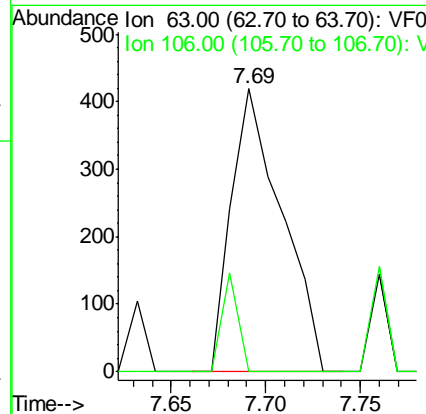
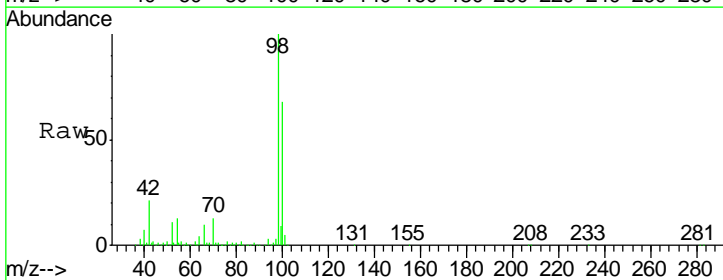
Instrument :
 MSVOA_F
 ClientSampled :

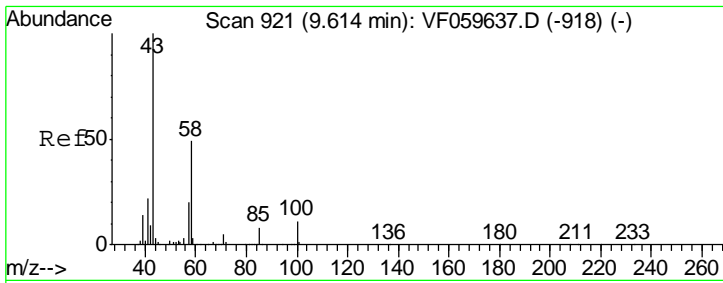
Tgt Ion	Resp	Lower	Upper
92	100		
91	56.8	134.2	201.4#



#58
 2-Chloroethyl Vinyl ether
 Concen: 3.762 ug/l
 RT: 7.69 min Scan# 726
 Delta R.T. -0.07 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
63	100		
106	0.0	0.0	0.0

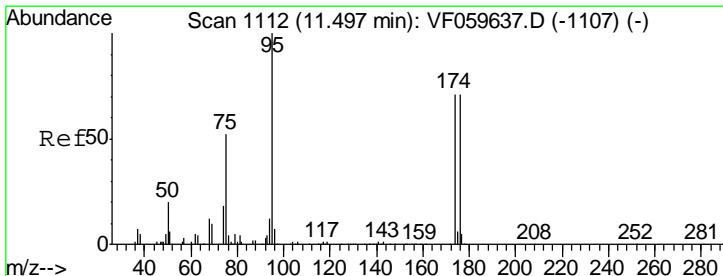
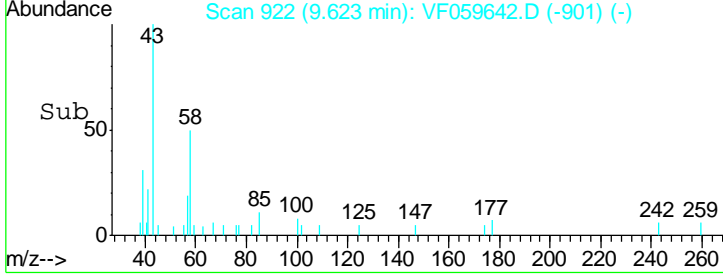
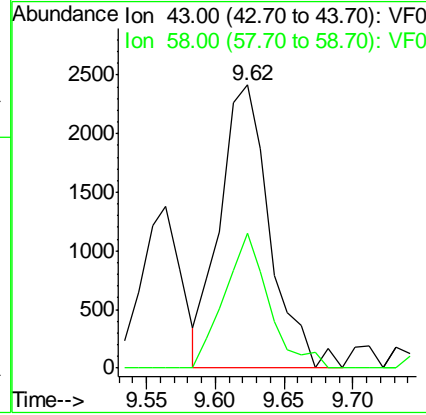
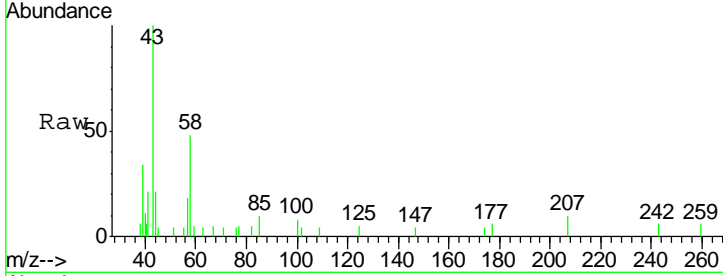




#59
 2-Hexanone
 Concen: 6.791 ug/l
 RT: 9.62 min Scan# 922
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

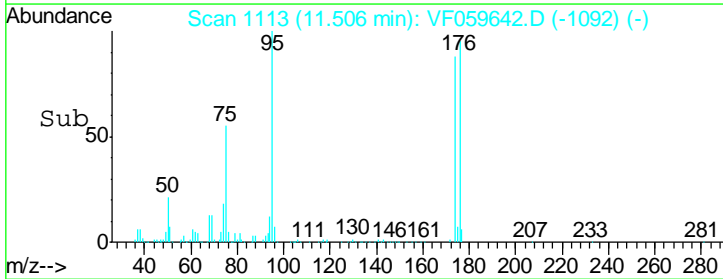
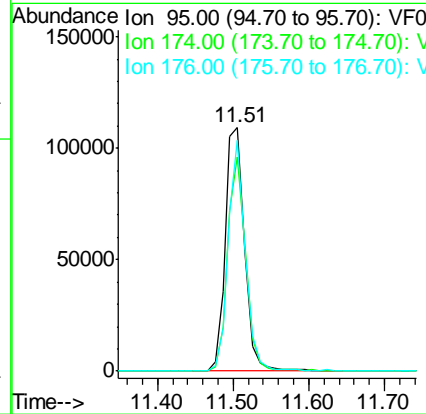
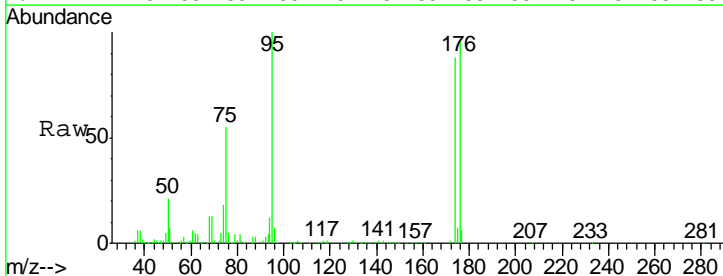
Instrument :
 MSVOA_F
 ClientSampled :

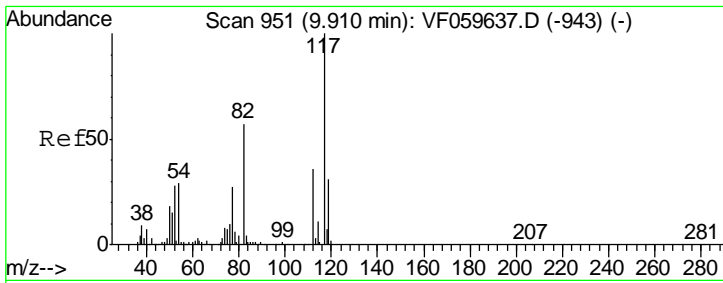
Tgt Ion	Resp	Lower	Upper
43	6087		
58	47.8	23.6	71.0



#62
 4-Bromofluorobenzene
 Concen: 48.766 ug/l
 RT: 11.51 min Scan# 1113
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
95	194792		
174	88.1	0.0	141.8
176	95.0	0.0	142.0

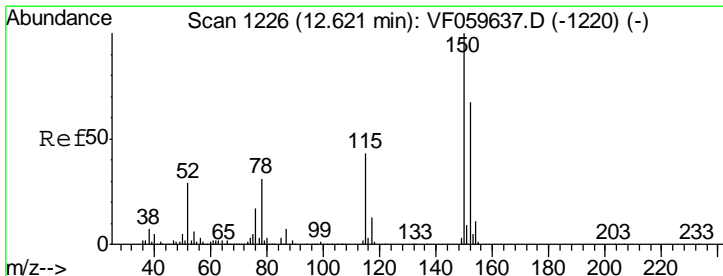
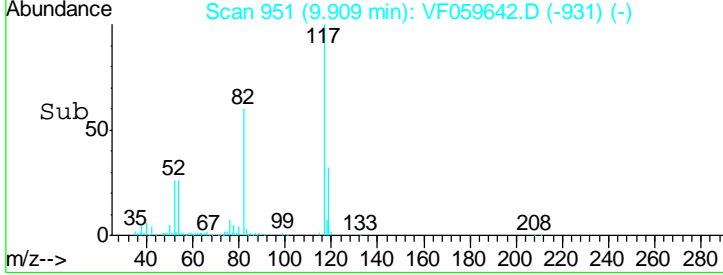
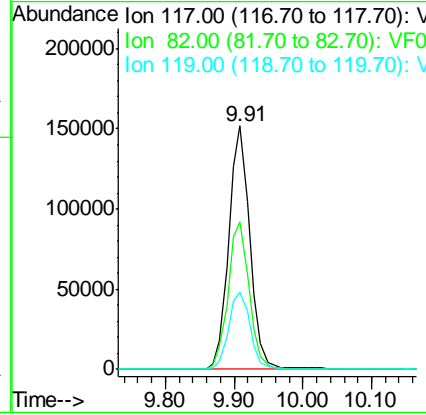
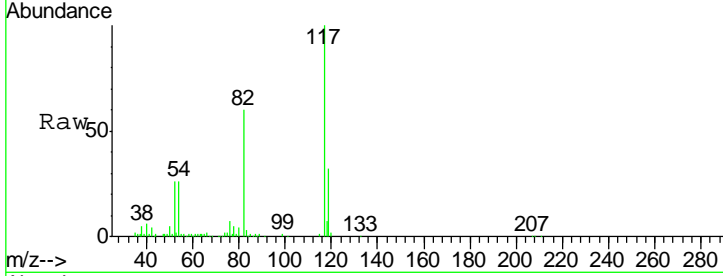




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.91 min Scan# 951
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

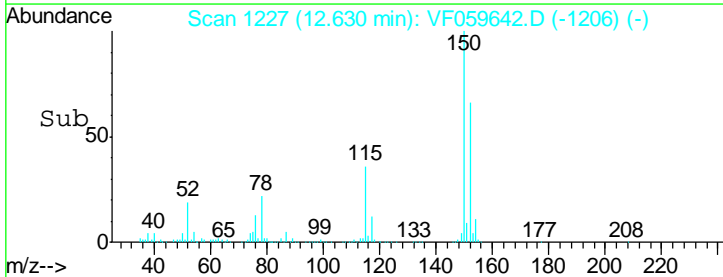
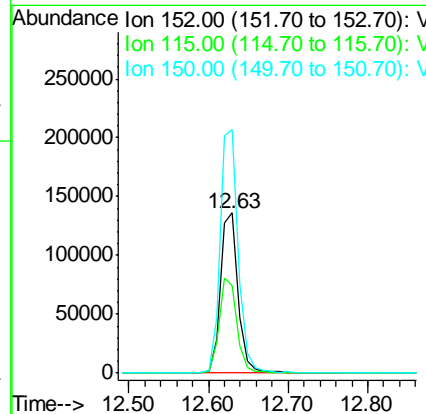
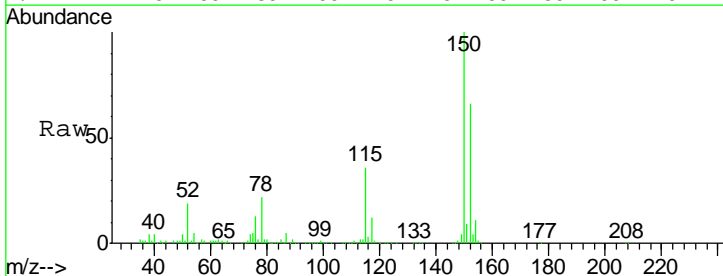
Instrument :
 MSVOA_F
 ClientSampled :

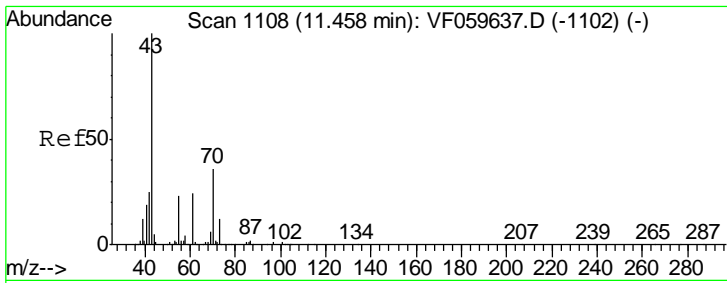
Tgt Ion	Resp	Lower	Upper
117	322871		
82	60.5	45.9	68.9
119	31.8	25.1	37.7



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
152	214133		
115	54.5	32.0	96.2
150	152.1	0.0	313.2

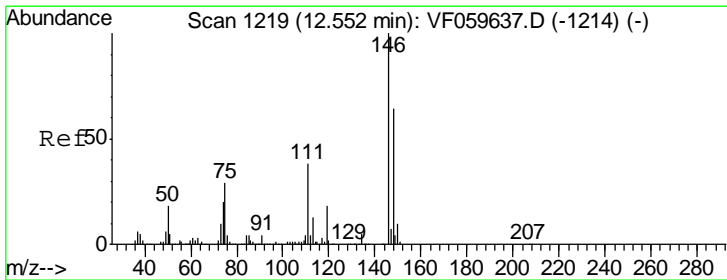
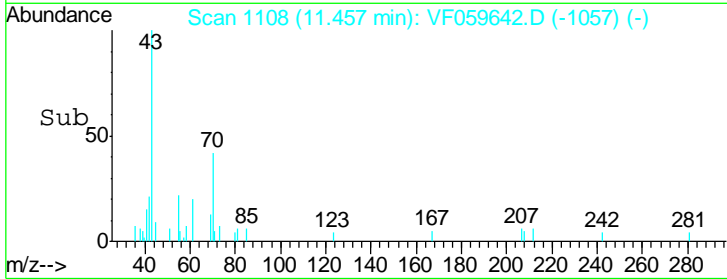
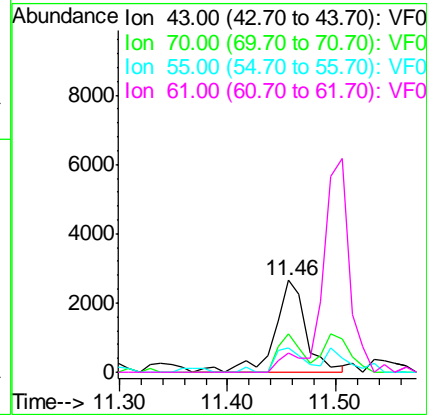
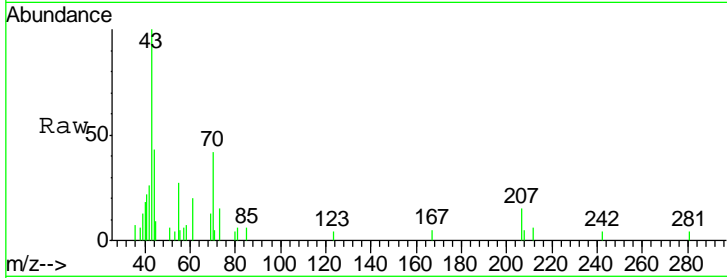




#74
 N-amyl acetate
 Concen: 1.875 ug/l
 RT: 11.46 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

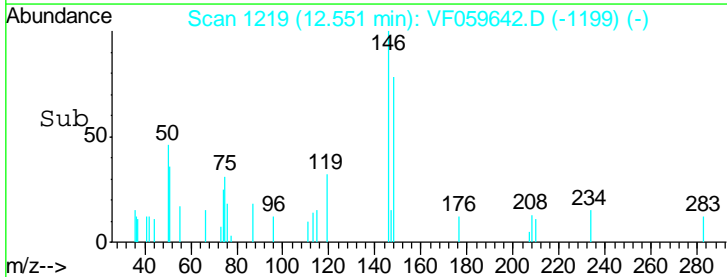
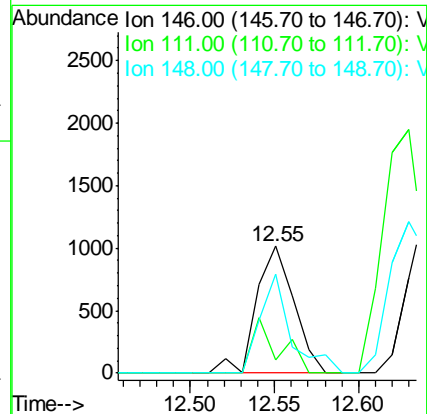
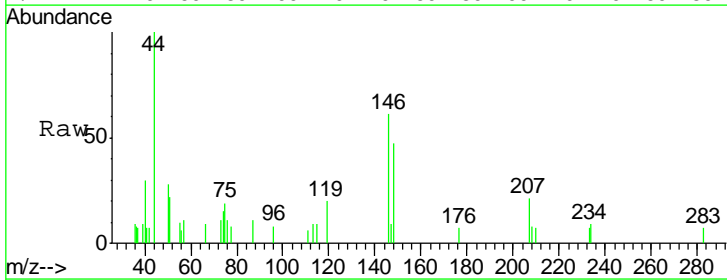
Instrument :
 MSVOA_F
 ClientSampled :

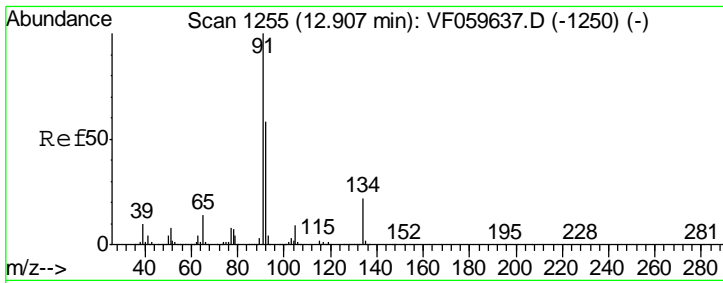
Tgt Ion	Resp	Lower	Upper
43	5412		
70	41.5	29.4	44.0
55	26.9	18.2	27.4
61	20.4	18.9	28.3



#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
146	1571		
111	10.0	19.1	57.1#
148	77.8	31.9	95.9

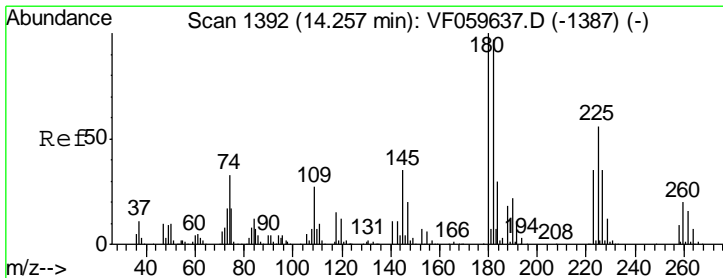
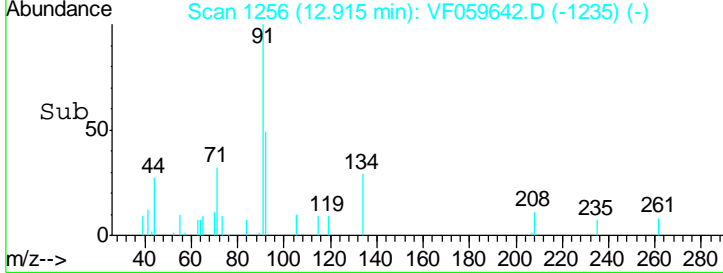
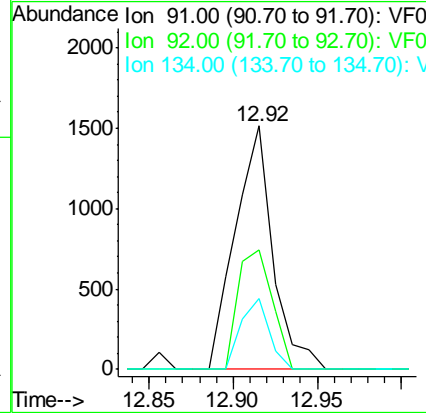
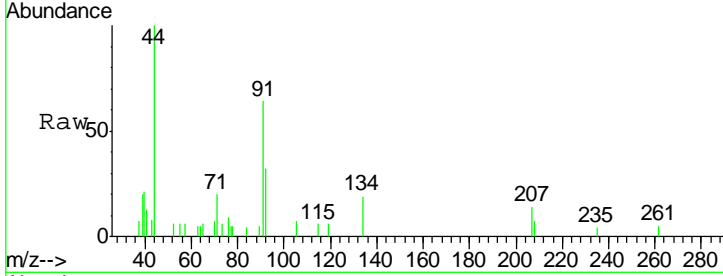




#89
 n-Butylbenzene
 Concen: Below Cal
 RT: 12.92 min Scan# 1256
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Instrument : MSVOA_F
 ClientSampled :

Tgt Ion	Resp	Lower	Upper
91	100		
92	49.2	29.1	87.3
134	28.9	11.2	33.6



#93
 1,2,4-Trichlorobenzene
 Concen: Below Cal
 RT: 14.27 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF059642.D
 Acq: 24 Jul 2018 20:45

Tgt Ion	Resp	Lower	Upper
180	100		
182	125.8	48.5	145.6
145	21.2	17.4	52.2

