

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110818\
 Data File : VF060647.D
 Acq On : 8 Nov 2018 13:19
 Operator : VA/AP
 Sample : VF1108SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 09 12:31:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	271417	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	482222	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	419626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	245691	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	165093	60.20	ug/l	-0.02
Spiked Amount			Recovery	=	120.40%	
35) Dibromofluoromethane	4.10	113	204284	54.83	ug/l	0.00
Spiked Amount			Recovery	=	109.66%	
50) Toluene-d8	7.54	98	498719	45.19	ug/l	-0.02
Spiked Amount			Recovery	=	90.38%	
62) 4-Bromofluorobenzene	11.41	95	250983	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	

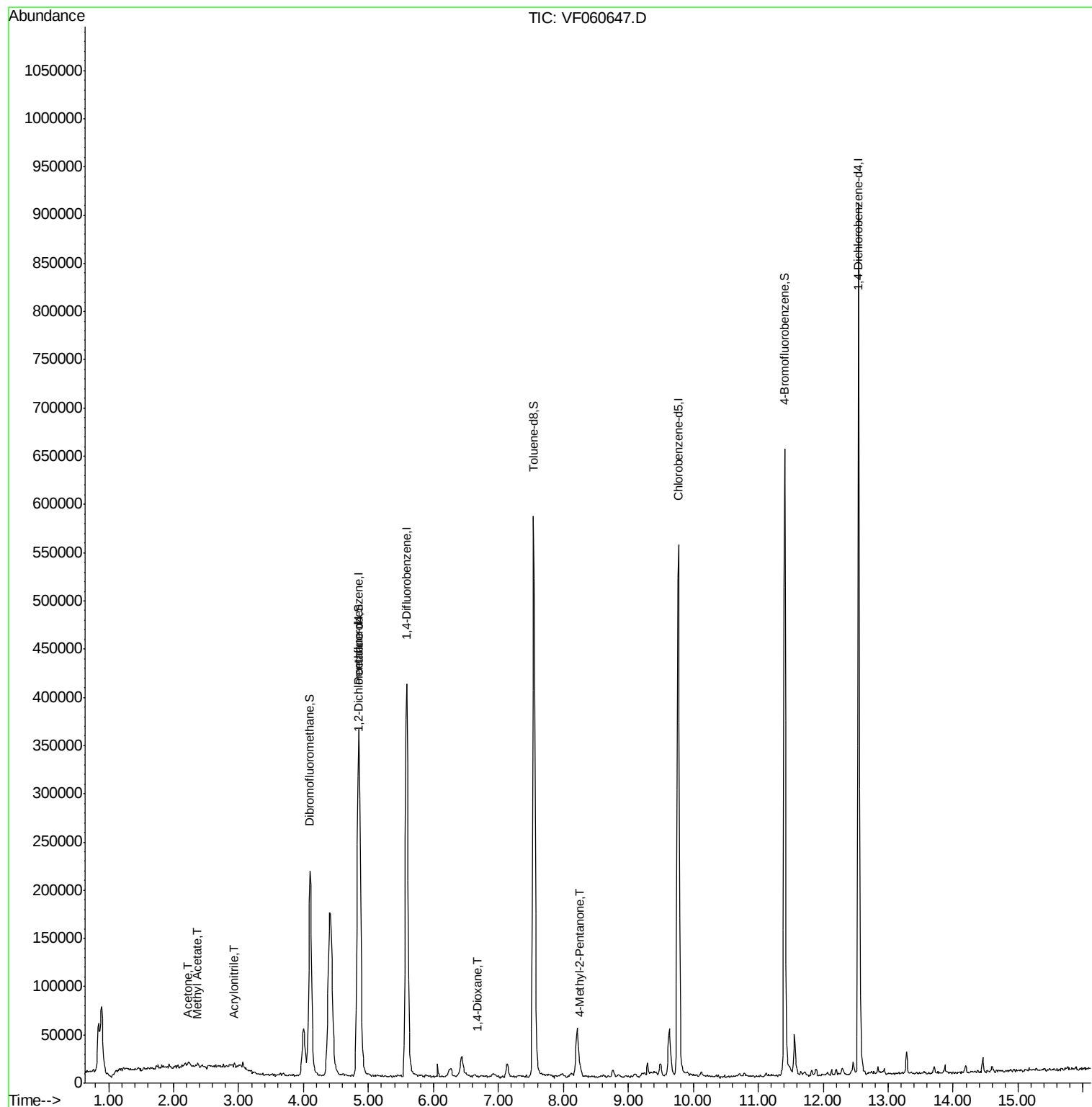
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	917	Below Cal		90
6) Chloroethane	1.39	64	60	Below Cal	#	1
11) Tert butyl alcohol	2.54	59	217	Below Cal	#	1
13) Acrolein	1.99	56	512	Below Cal	#	56
15) Acrylonitrile	2.94	53	634	1.940	ug/l #	73
16) Acetone	2.23	43	2991	4.629	ug/l #	82
18) Methyl Acetate	2.35	43	1213	1.676	ug/l #	64
20) Methylene Chloride	2.22	84	238	Below Cal	#	59
25) 2-Butanone	4.26	43	429	Below Cal	#	56
29) Tetrahydrofuran	4.07	42	1338	Below Cal	#	81
49) 1,4-Dioxane	6.69	88	65	3.067	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	7121	3.285	ug/l #	77
58) 2-Chloroethyl Vinyl ether	7.65	63	67	Below Cal		100
59) 2-Hexanone	9.50	43	11023	Below Cal		86
74) N-amyl acetate	11.37	43	4266	Below Cal	#	81
89) n-Butylbenzene	12.84	91	3429	Below Cal		94

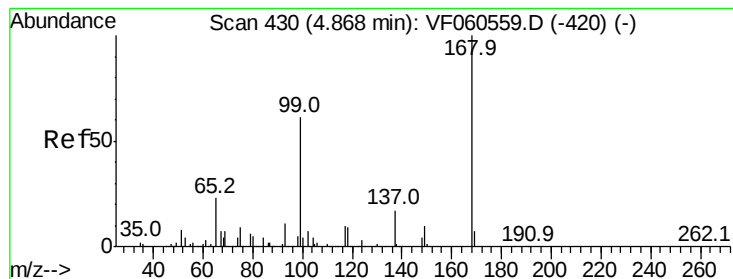
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

Instrument :

MSVOA_F

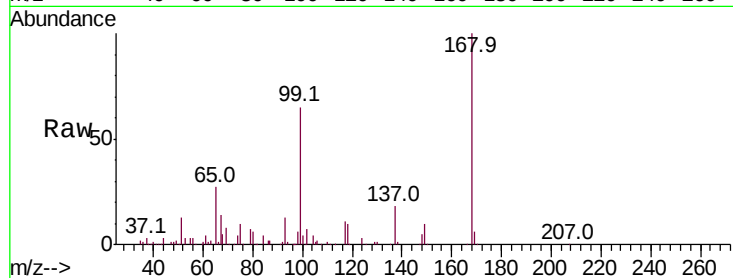
ClientSampled :

Tot Ion:168 Resp: 271417

Ion Ratio Lower Upper

168 100

99 64.8 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

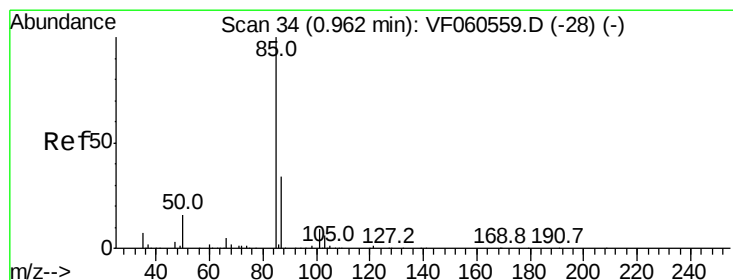
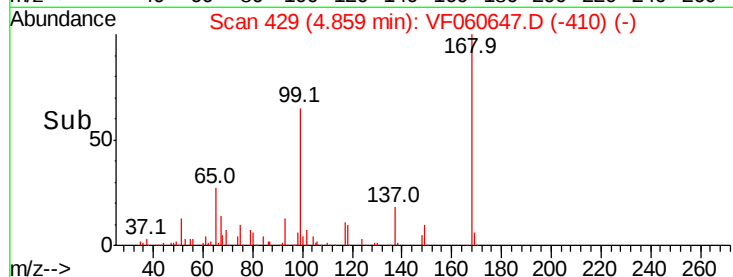
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF060647.D

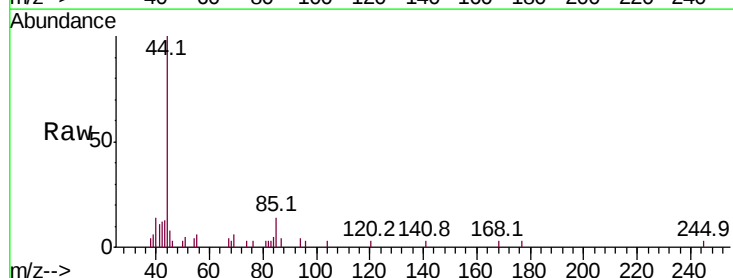
Acq: 8 Nov 2018 13:19

Tgt Ion: 85 Resp: 917

Ion Ratio Lower Upper

85 100

87 28.1 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

600

500

400

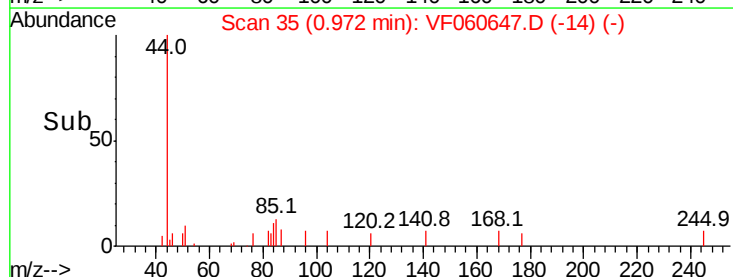
300

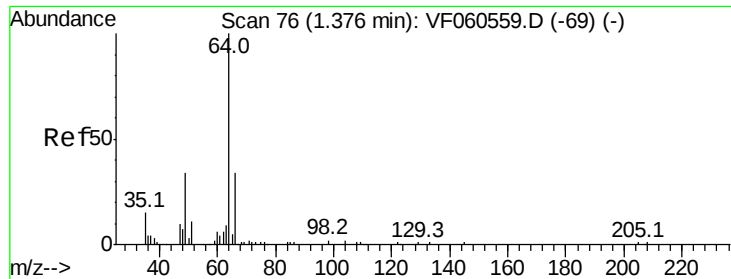
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.01 min

Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

Instrument :

MSVOA_F

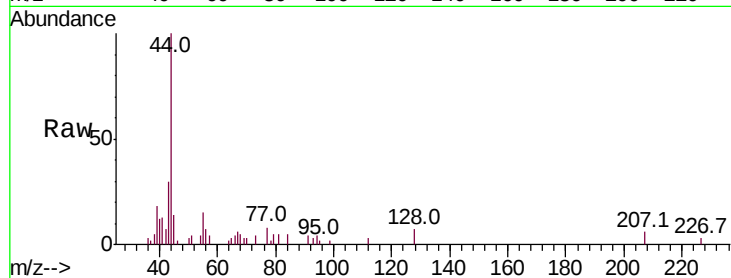
ClientSampled :

Tot Ion: 64 Resp: 60

Ion Ratio Lower Upper

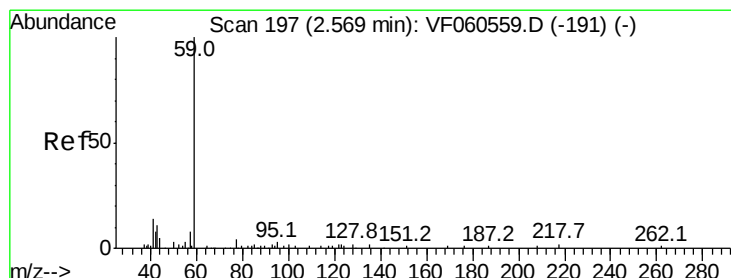
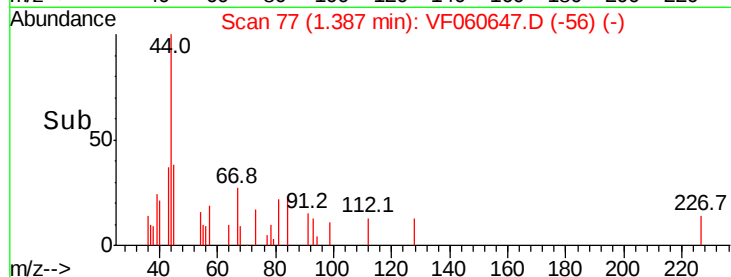
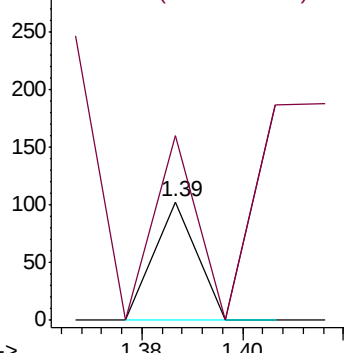
64 100

66 156.9 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.54 min Scan# 194

Delta R.T. -0.03 min

Lab File: VF060647.D

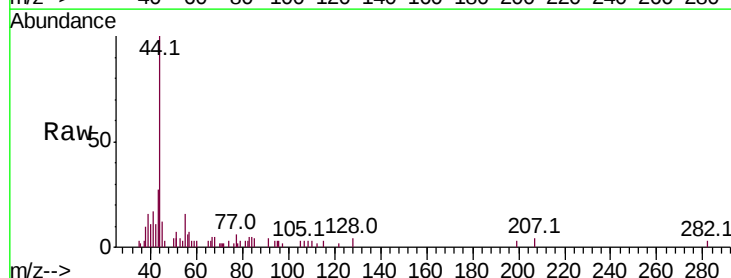
Acq: 8 Nov 2018 13:19

Tgt Ion: 59 Resp: 217

Ion Ratio Lower Upper

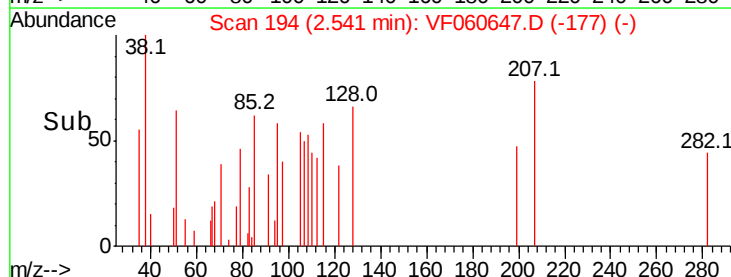
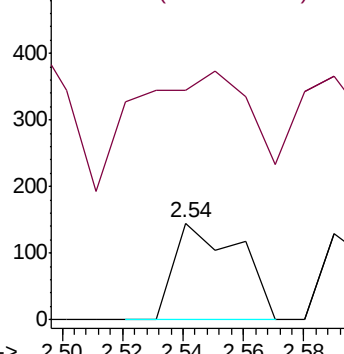
59 100

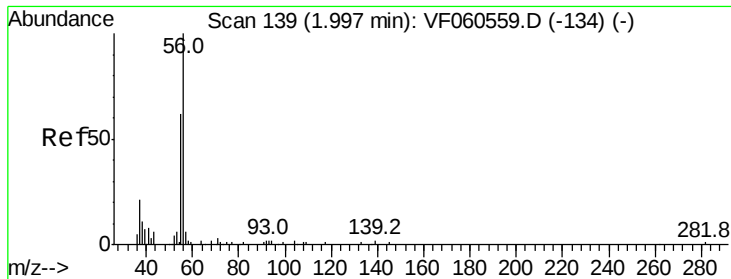
57 237.2 19.0 28.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

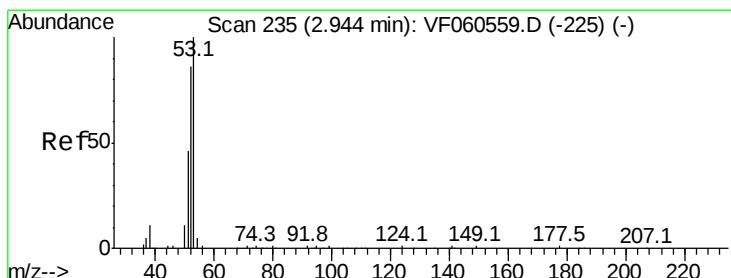
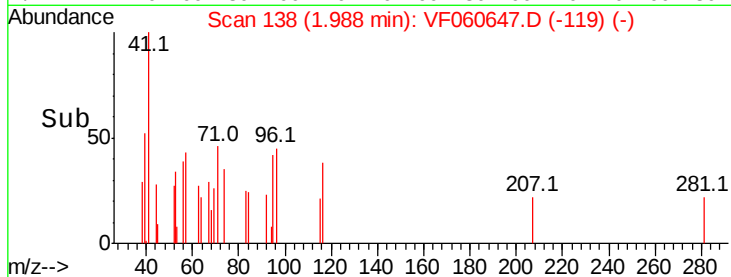
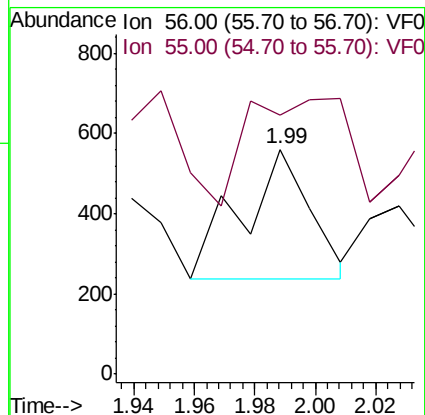
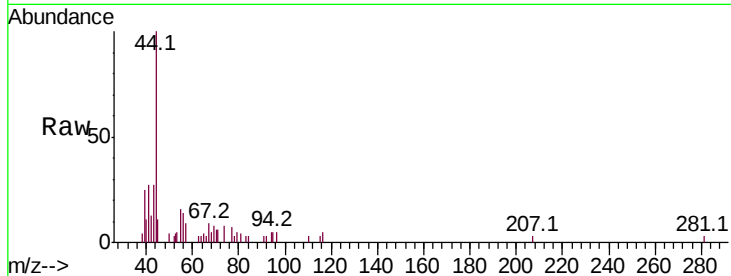
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 512

Ion Ratio Lower Upper

56 100

55 115.0 61.8 92.6#



#15

Acrylonitrile

Concen: 1.940 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

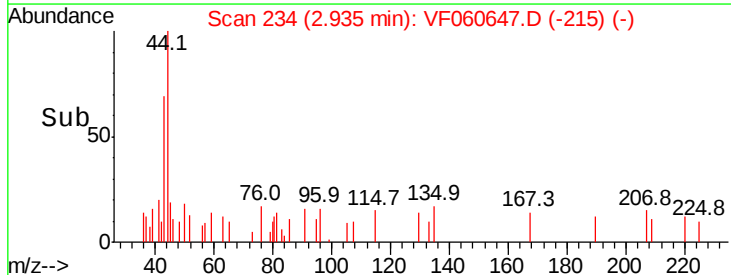
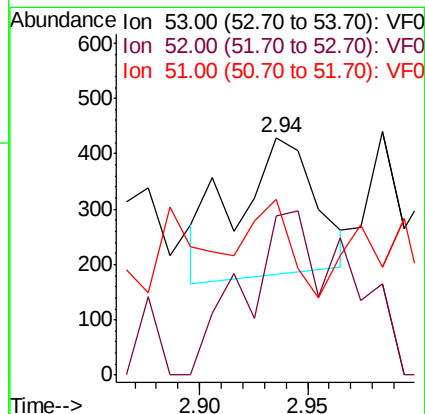
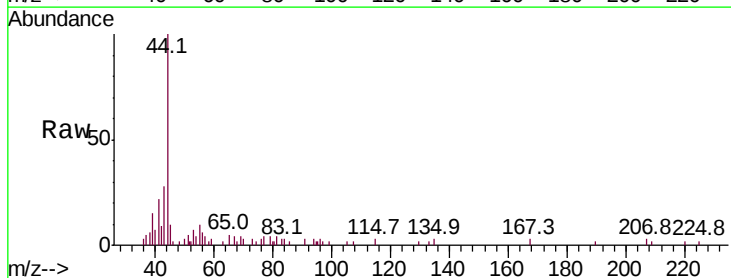
Tgt Ion: 53 Resp: 634

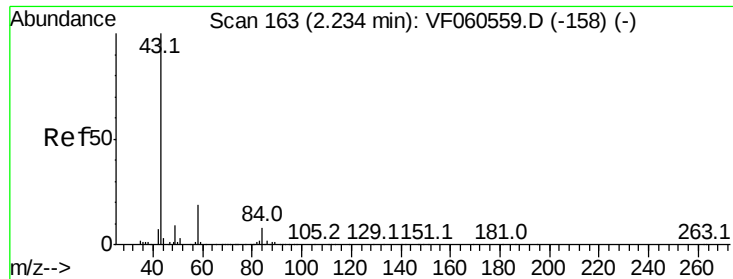
Ion Ratio Lower Upper

53 100

52 66.9 68.5 102.7#

51 73.9 38.2 57.2#

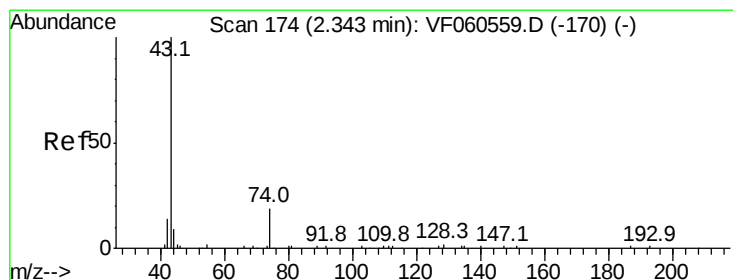
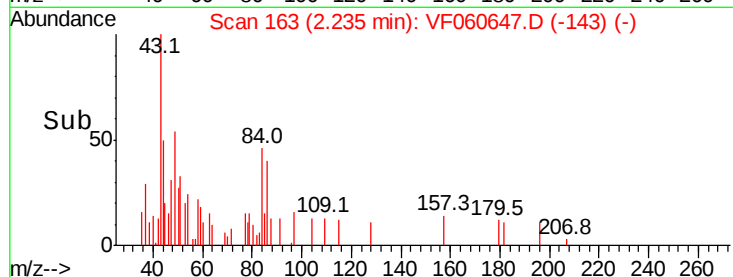
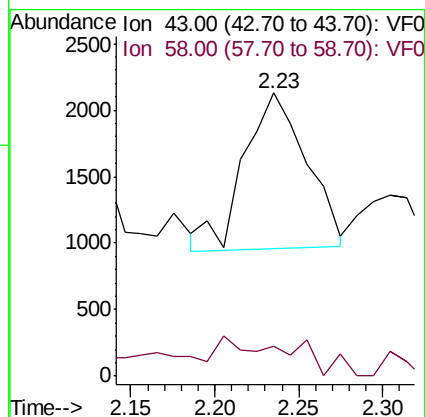
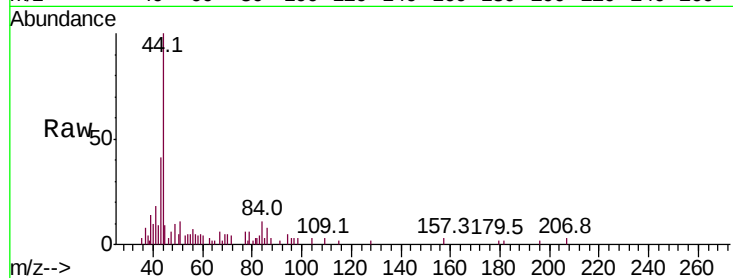




#16
Acetone
Concen: 4.629 ug/l
RT: 2.23 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

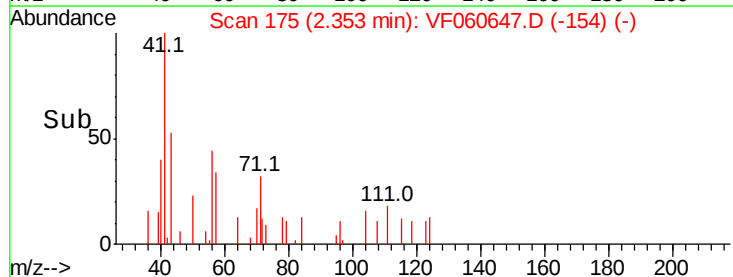
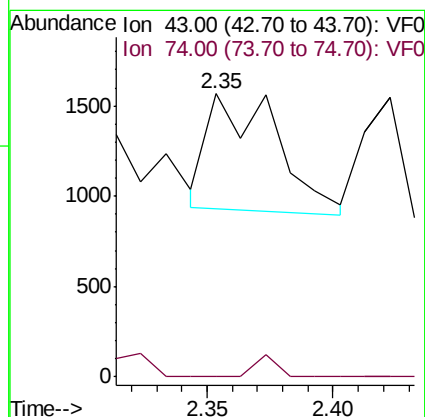
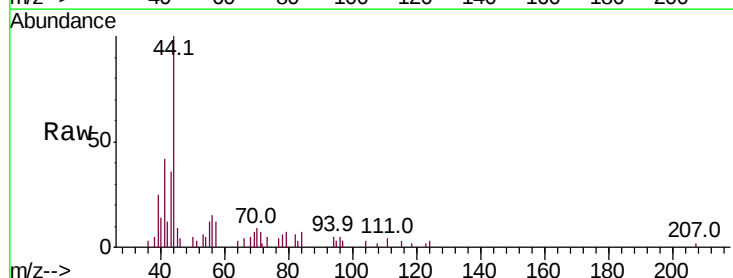
Instrument :
MSVOA_F
ClientSampleId :

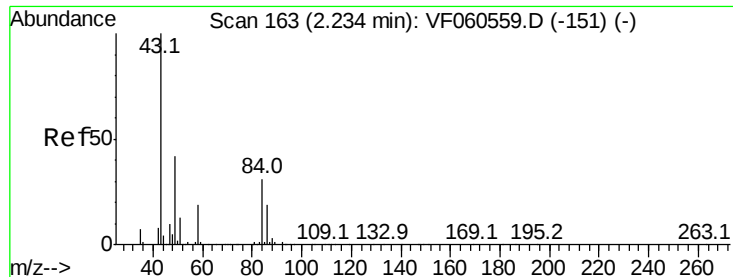
Tot Ion: 43 Resp: 2991
Ion Ratio Lower Upper
43 100
58 10.4 14.6 22.0#



#18
Methyl Acetate
Concen: 1.676 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

Tgt Ion: 43 Resp: 1213
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#

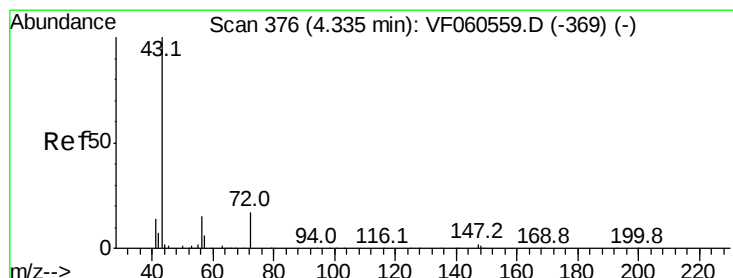
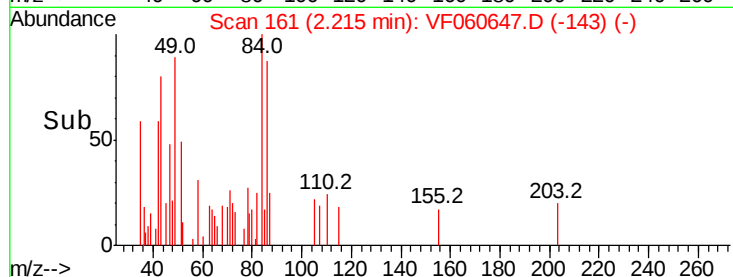
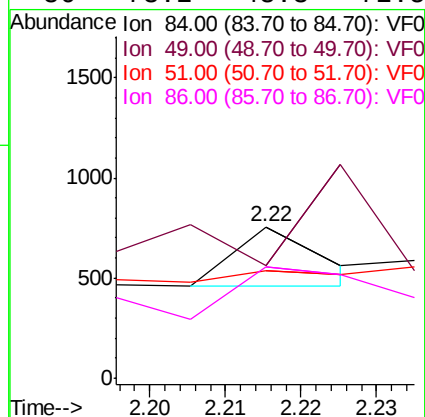
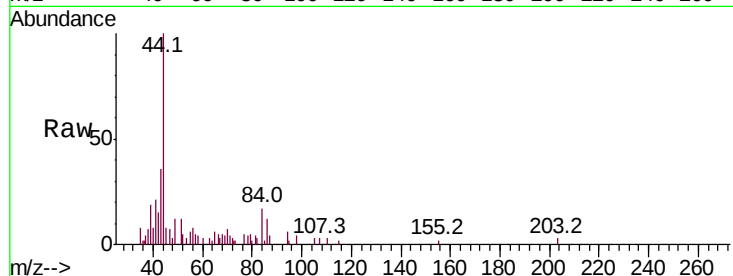




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.22 min Scan# 161
Delta R.T. -0.02 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

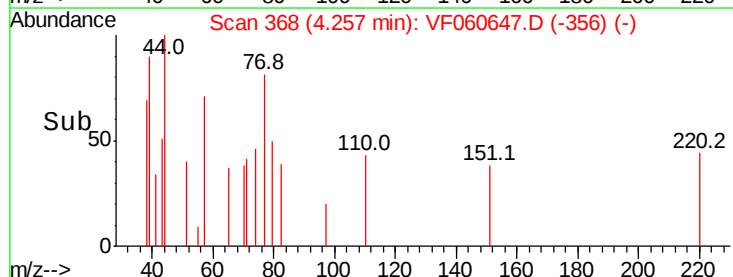
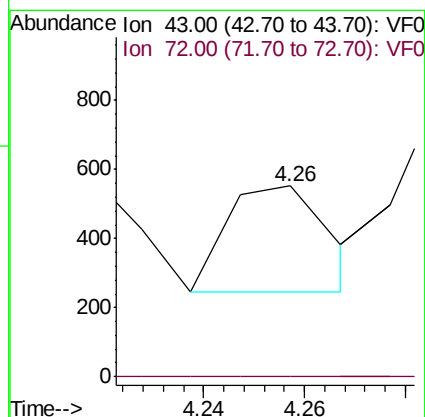
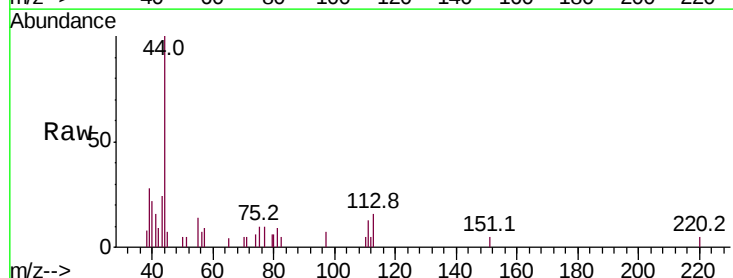
Instrument :
MSVOA_F
ClientSampleId :

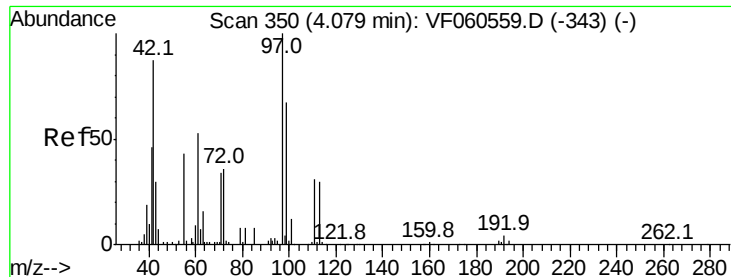
Tot Ion: 84 Resp: 238
Ion Ratio Lower Upper
84 100
49 74.4 109.9 164.9#
51 70.7 35.8 53.8#
86 73.2 48.3 72.5#



#25
2-Butanone
Concen: Below Cal
RT: 4.26 min Scan# 368
Delta R.T. -0.08 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

Tgt Ion: 43 Resp: 429
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

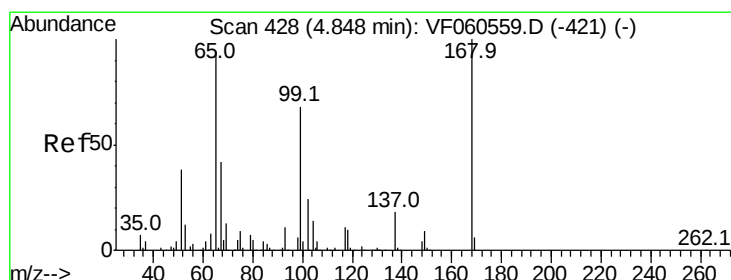
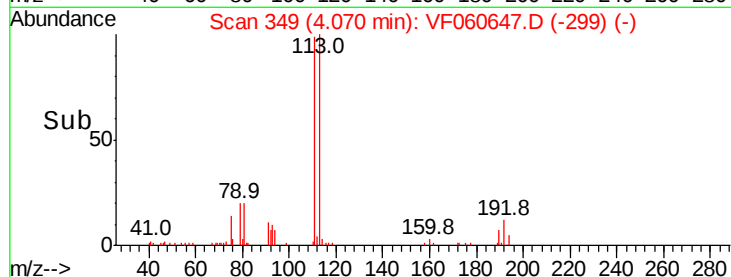
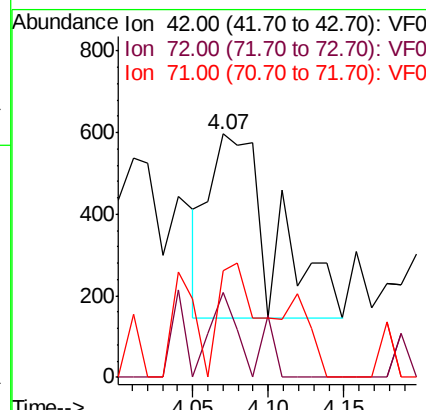
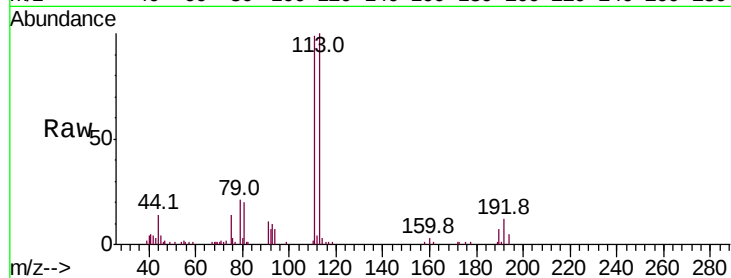
Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 1338

Ion	Ratio	Lower	Upper
42	100		
72	19.1	31.4	47.0#
71	43.0	31.8	47.6



#33

1,2-Dichloroethane-d4

Concen: 60.202 ug/l

RT: 4.83 min Scan# 426

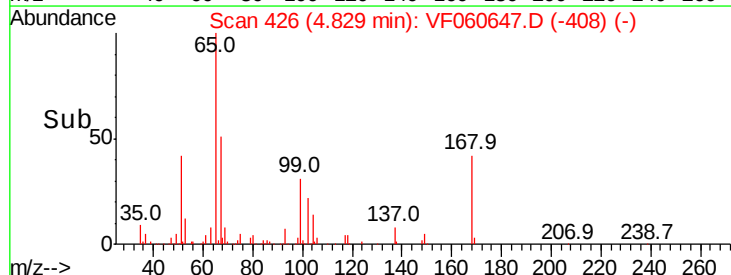
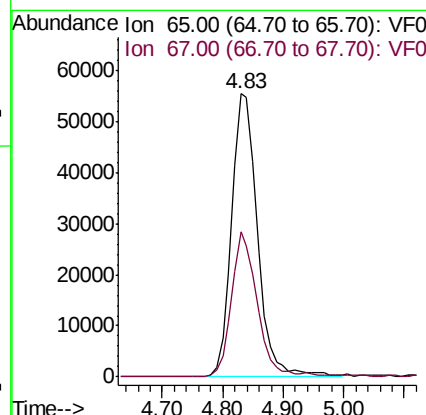
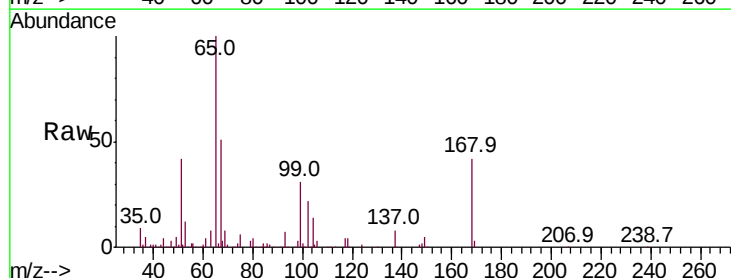
Delta R.T. -0.02 min

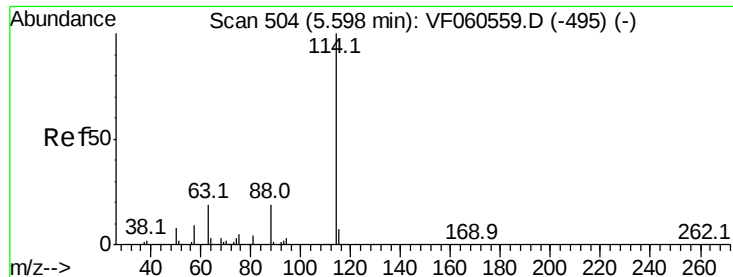
Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

Tgt Ion: 65 Resp: 165093

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	101.8

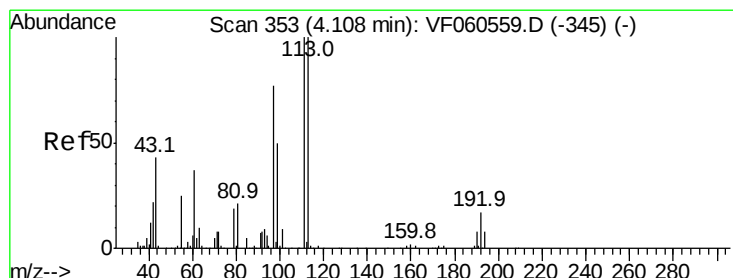
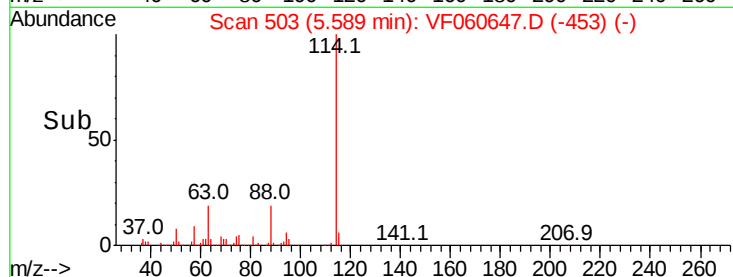
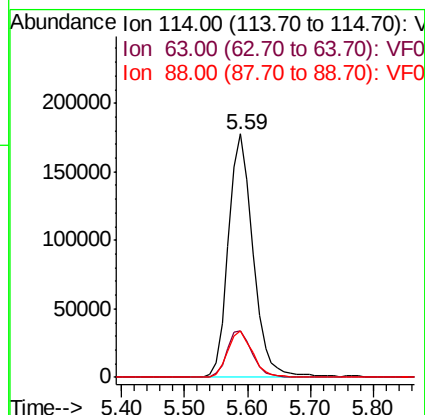
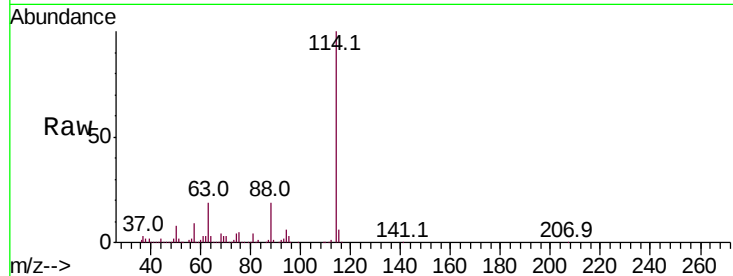




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF060647.D
 Acq: 8 Nov 2018 13:19

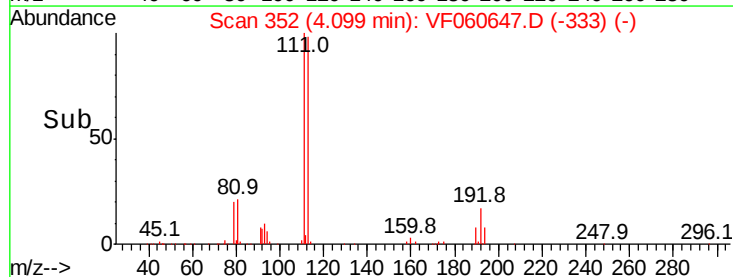
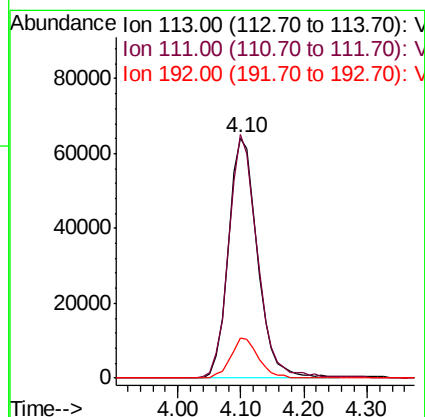
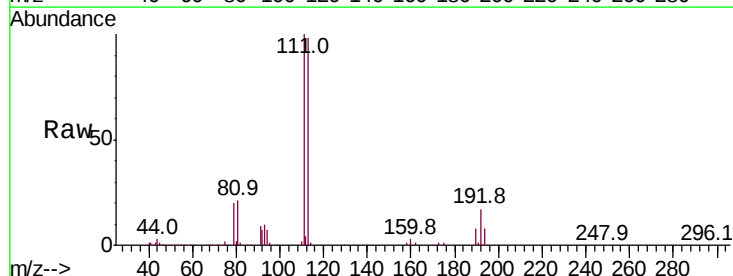
Instrument :
 MSVOA_F
 ClientSampleId :

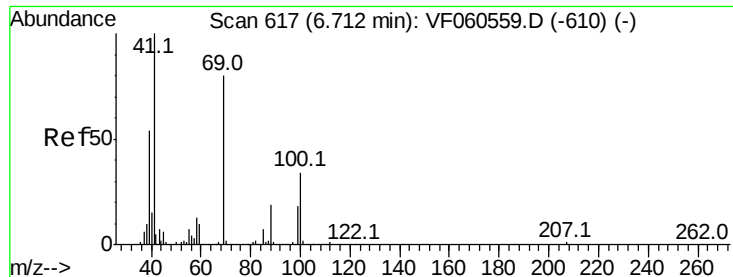
Tot Ion:114 Resp: 482222
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.0
 88 19.1 0.0 38.2



#35
 Dibromofluoromethane
 Concen: 54.832 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VF060647.D
 Acq: 8 Nov 2018 13:19

Tgt Ion:113 Resp: 204284
 Ion Ratio Lower Upper
 113 100
 111 101.5 79.9 119.9
 192 17.1 13.3 19.9





#49

1,4-Dioxane

Concen: 3.067 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

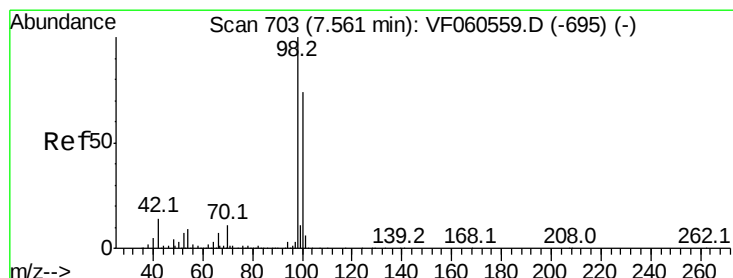
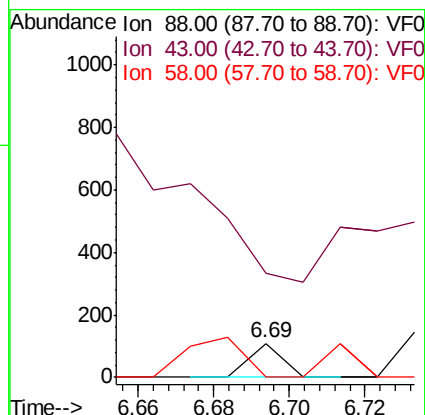
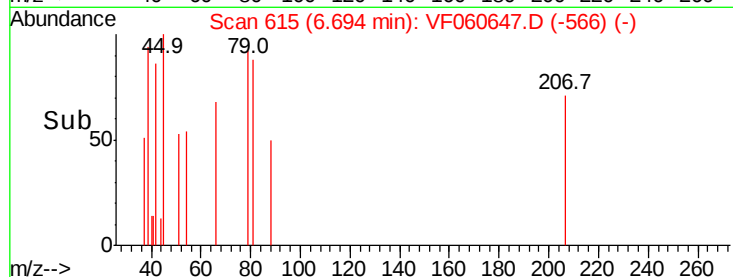
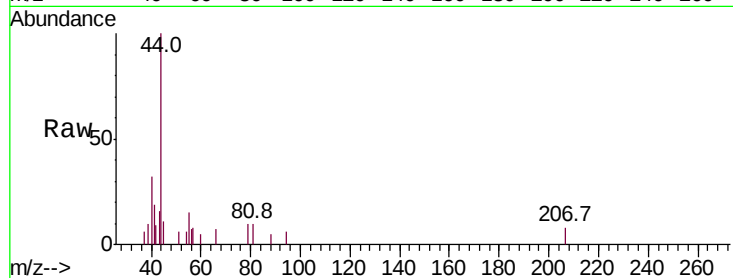
Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 65

Ion	Ratio	Lower	Upper
88	100		
43	302.7	61.2	91.8#
58	0.0	56.9	85.3#



#50

Toluene-d8

Concen: 45.188 ug/l

RT: 7.54 min Scan# 701

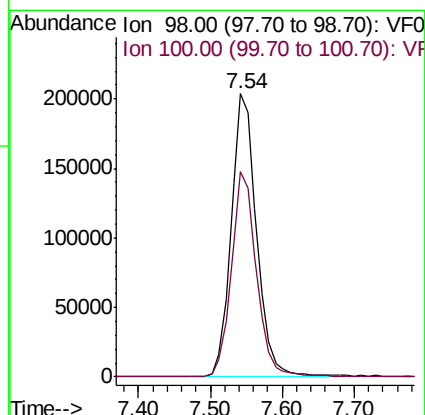
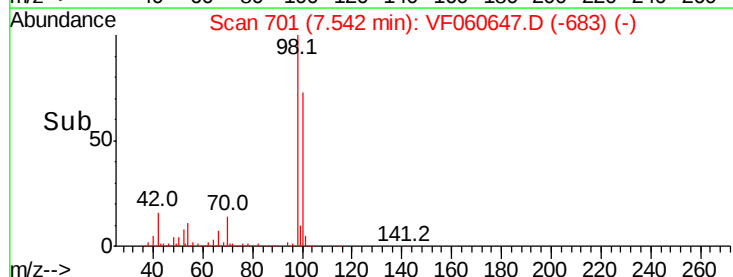
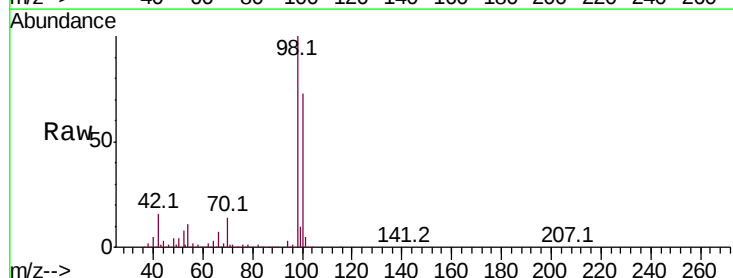
Delta R.T. -0.02 min

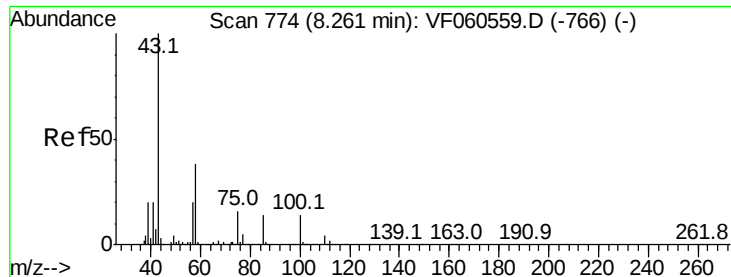
Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

Tgt Ion: 98 Resp: 498719

Ion	Ratio	Lower	Upper
98	100		
100	72.7	59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 3.285 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060647.D

Acq: 8 Nov 2018 13:19

Instrument :

MSVOA_F

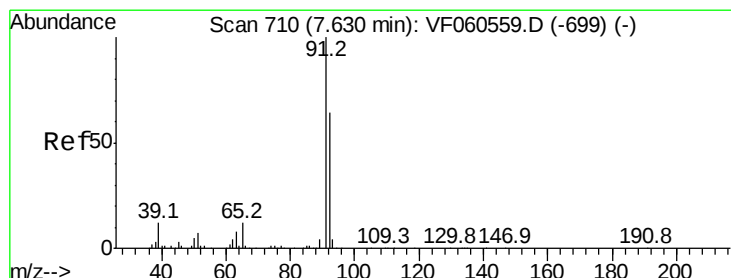
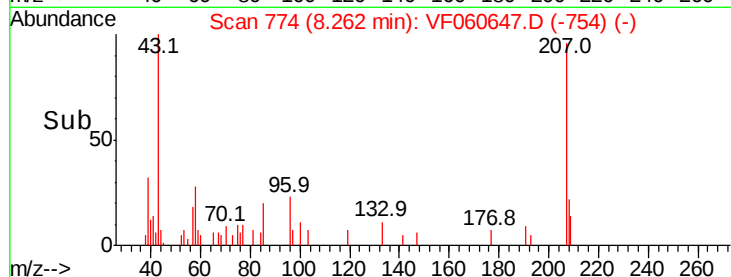
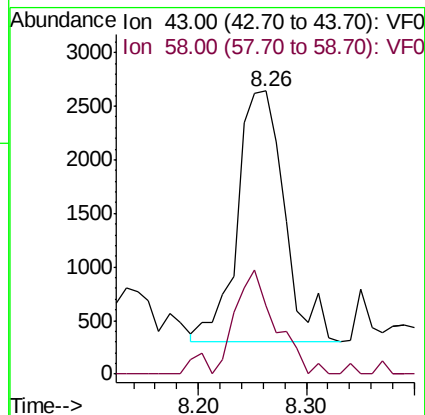
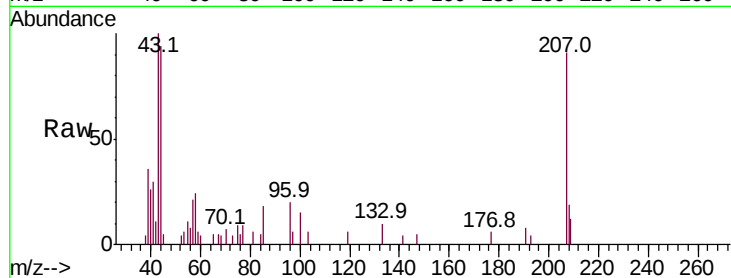
ClientSampleId :

Tot Ion: 43 Resp: 7121

Ion Ratio Lower Upper

43 100

58 23.9 30.1 45.1#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.65 min Scan# 712

Delta R.T. 0.02 min

Lab File: VF060647.D

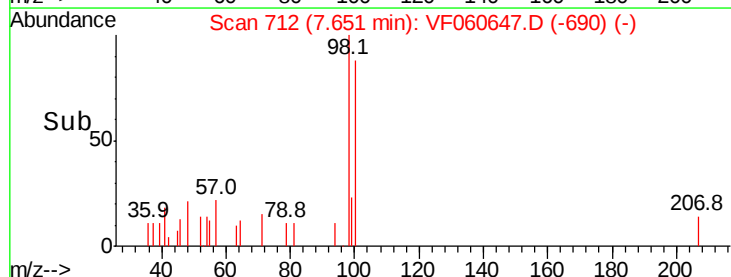
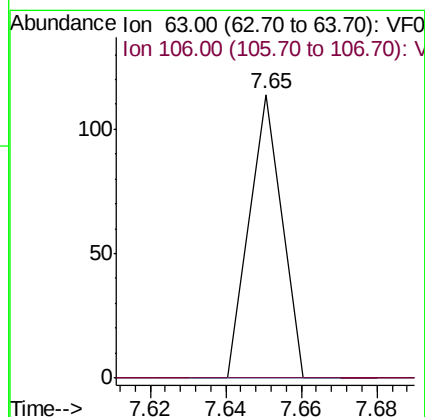
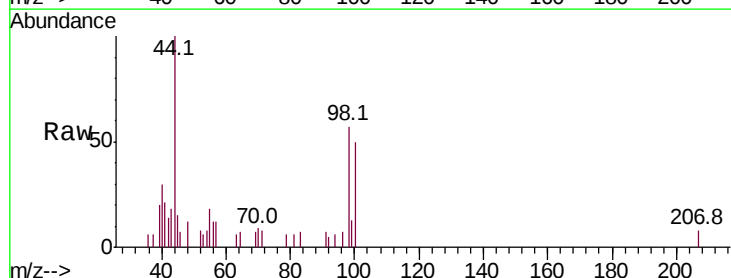
Acq: 8 Nov 2018 13:19

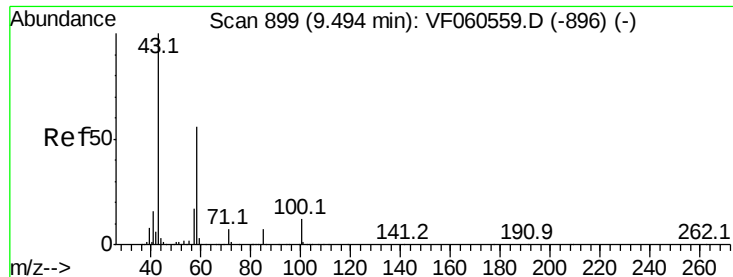
Tgt Ion: 63 Resp: 67

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

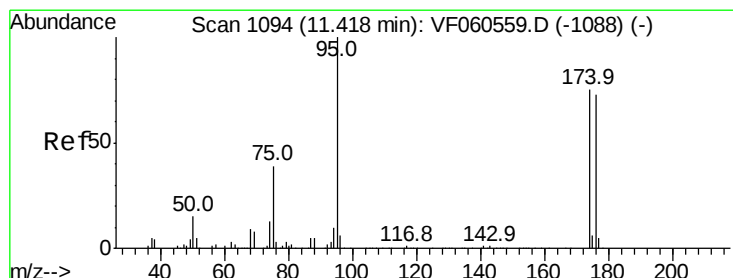
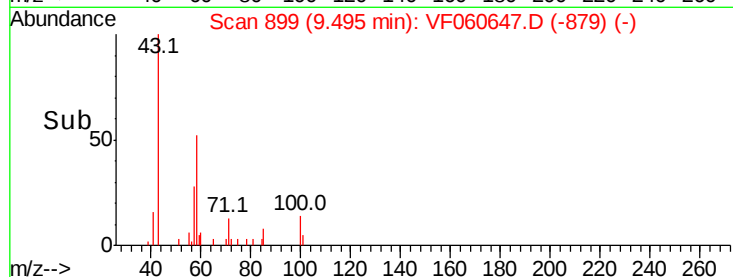
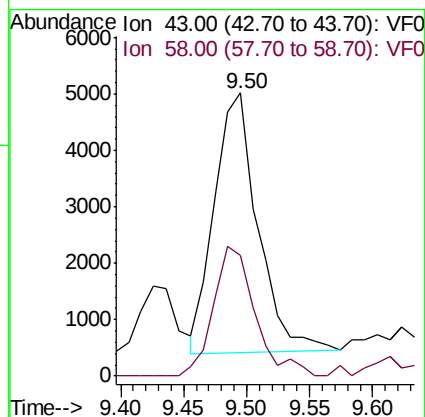
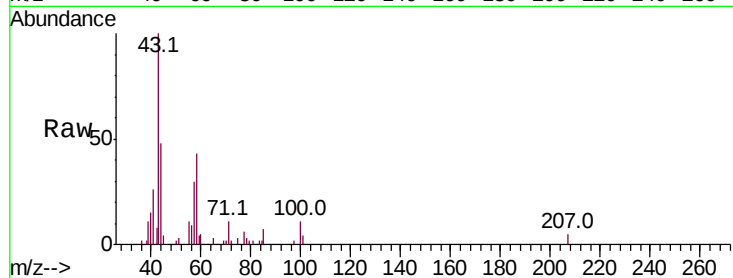




#59
2-Hexanone
Concen: Below Cal
RT: 9.50 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

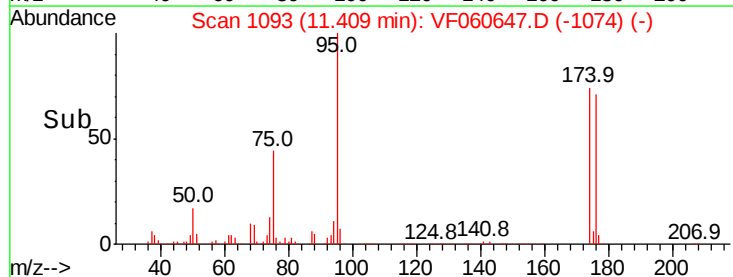
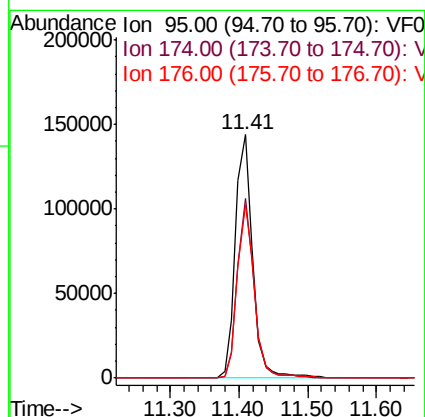
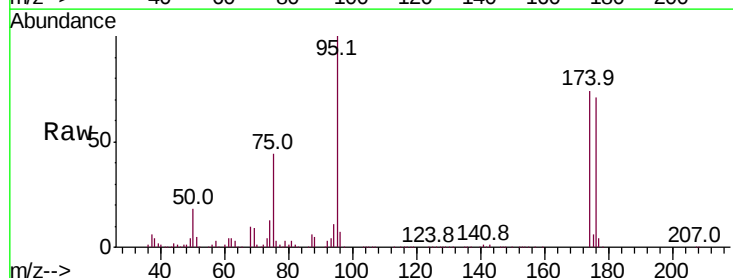
Instrument :
MSVOA_F
ClientSampled :

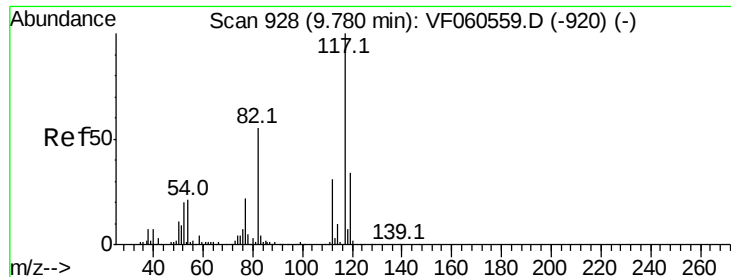
Tot Ion: 43 Resp: 11023
Ion Ratio Lower Upper
43 100
58 42.6 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 51.990 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

Tgt Ion: 95 Resp: 250983
Ion Ratio Lower Upper
95 100
174 73.6 0.0 149.0
176 71.3 0.0 145.6

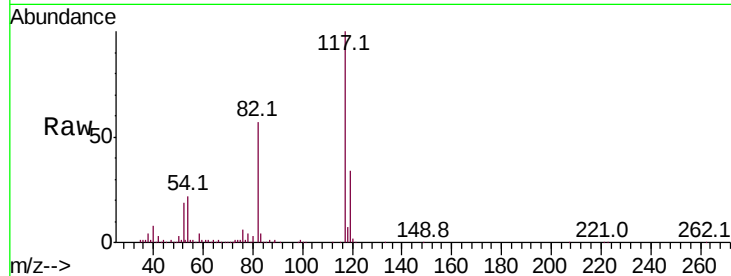




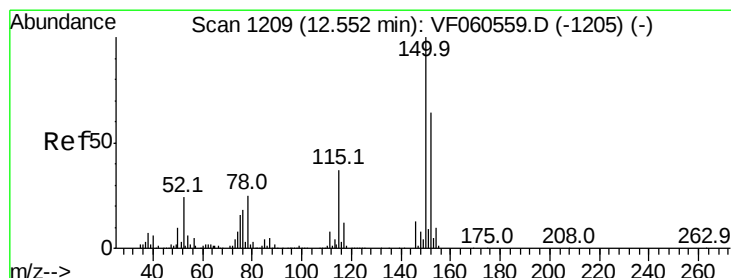
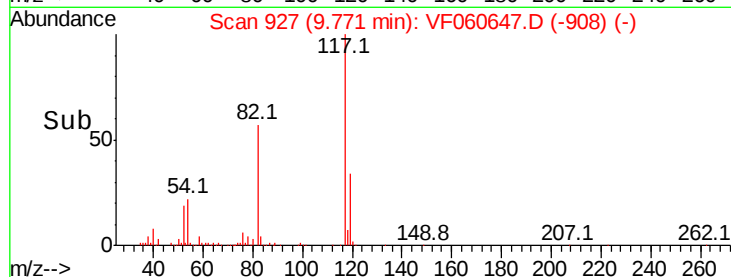
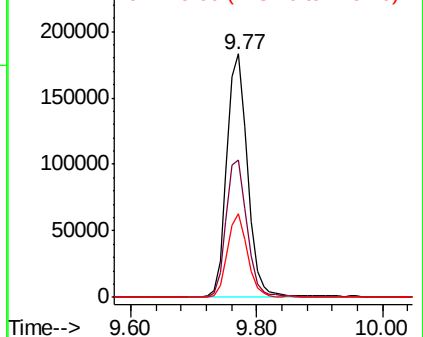
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 419626
Ion Ratio Lower Upper
117 100
82 56.6 43.9 65.9
119 34.2 27.4 41.0

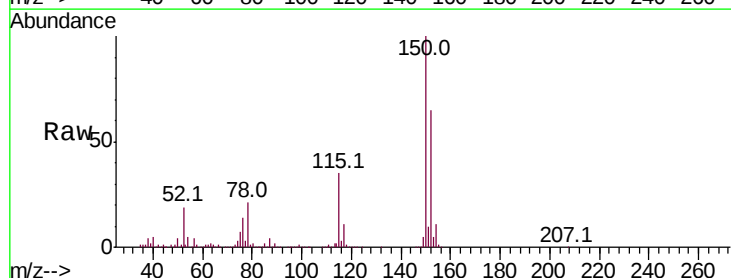


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

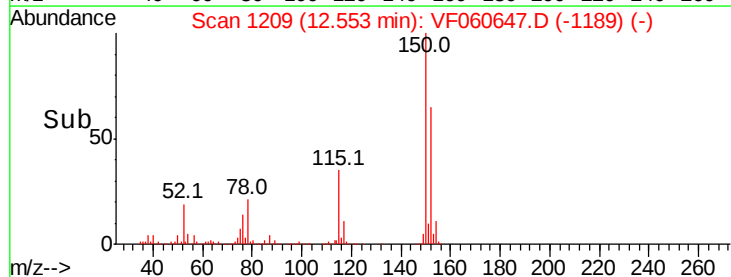
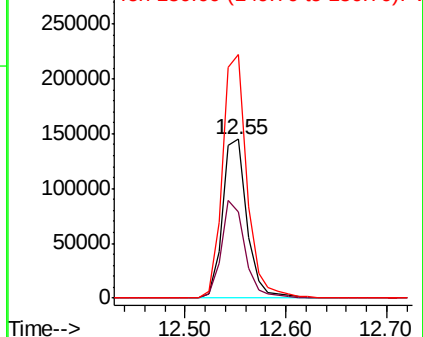


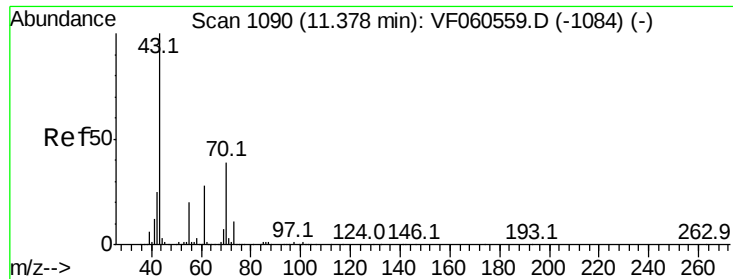
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060647.D
Acq: 8 Nov 2018 13:19

Tgt Ion:152 Resp: 245691
Ion Ratio Lower Upper
152 100
115 54.4 29.6 88.8
150 153.4 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74
 N-amvl acetate
 Concen: Below Cal
 RT: 11.37 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VF060647.D
 Acq: 8 Nov 2018 13:19

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
70	23.3	30.9	46.3#
55	24.9	16.6	24.8#
61	17.4	22.0	33.0#

