

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060594.D
 Acq On : 6 Nov 2018 4:48
 Operator : VA/AP
 Sample : J5767-01
 Misc : 8.53/5mL/MSVOA-F/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 07:42:40 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	4.88	168	200649	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	445352	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	324358	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	191011	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	108132	53.34	ug/l	0.00
Spiked Amount						
			Recovery	=	106.68%	
35) Dibromofluoromethane	4.12	113	146644	42.62	ug/l	0.01
Spiked Amount						
			Recovery	=	85.24%	
50) Toluene-d8	7.56	98	165764	16.26	ug/l	0.00
Spiked Amount						
			Recovery	=	32.52%	
62) 4-Bromofluorobenzene	11.42	95	169124	37.93	ug/l	0.00
Spiked Amount						
			Recovery	=	75.86%	

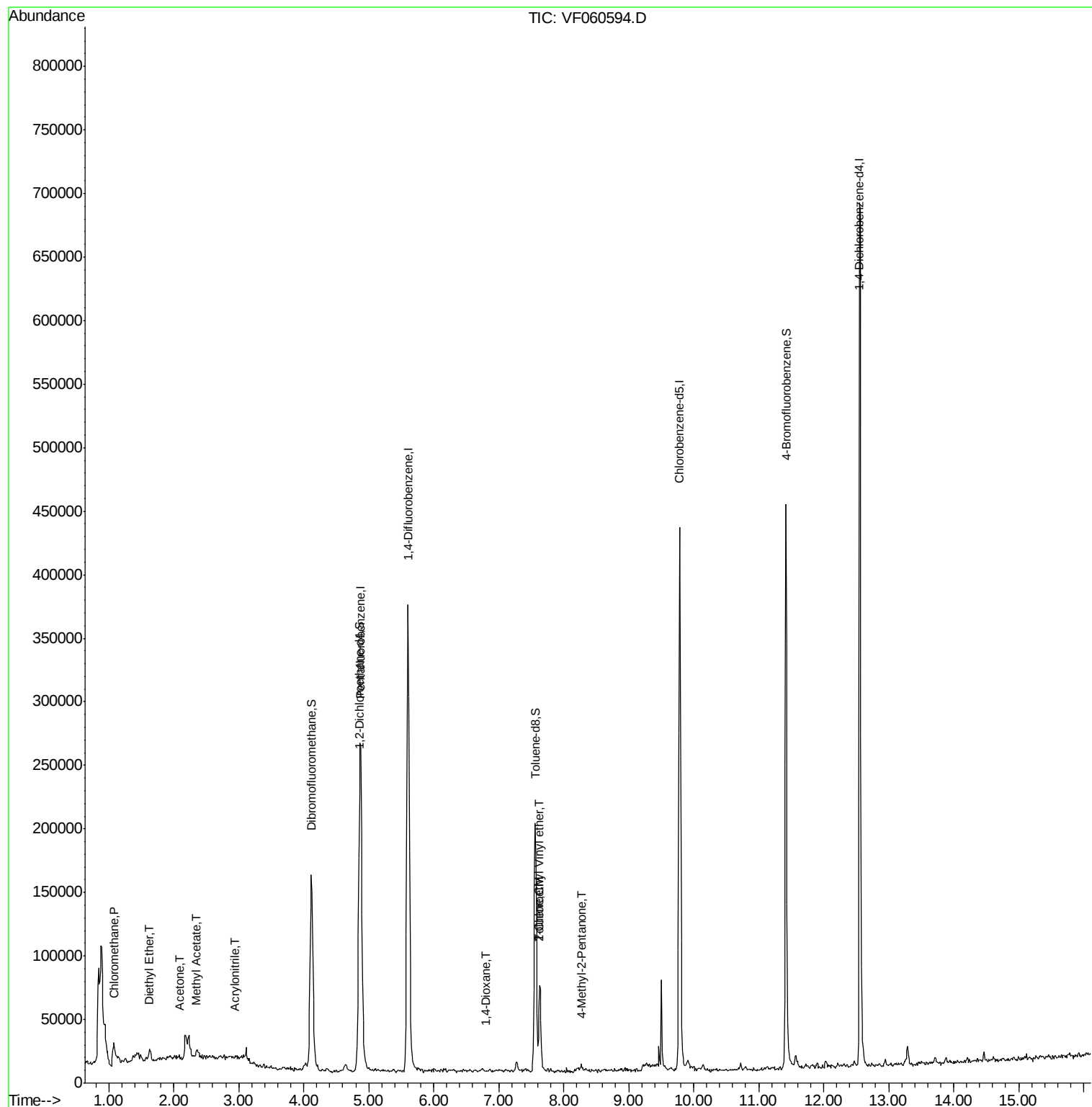
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.94	85	414	Below Cal	#	41
3) Chloromethane	1.08	50	1899	1.081	ug/l #	89
6) Chloroethane	1.35	64	76	Below Cal	#	1
8) Diethyl Ether	1.63	74	2352	4.190	ug/l	53
11) Tert butyl alcohol	2.56	59	315	Below Cal	#	1
13) Acrolein	2.02	56	199	Below Cal	#	1
15) Acrylonitrile	2.93	53	527	2.181	ug/l #	53
16) Acetone	2.08	43	1628	3.408	ug/l	94
18) Methyl Acetate	2.34	43	4496	6.480	ug/l #	86
25) 2-Butanone	4.36	43	1241	Below Cal	#	56
29) Tetrahydrofuran	4.04	42	607	Below Cal	#	7
49) 1,4-Dioxane	6.81	88	66	3.371	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	3895	1.945	ug/l #	80
52) Toluene	7.63	92	37140	4.790	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.64	63	5673	10.568	ug/l	100
59) 2-Hexanone	9.50	43	7246	Below Cal		84
74) N-amyl acetate	11.39	43	2590	Below Cal	#	86
89) n-Butylbenzene	12.85	91	1480	Below Cal	#	70

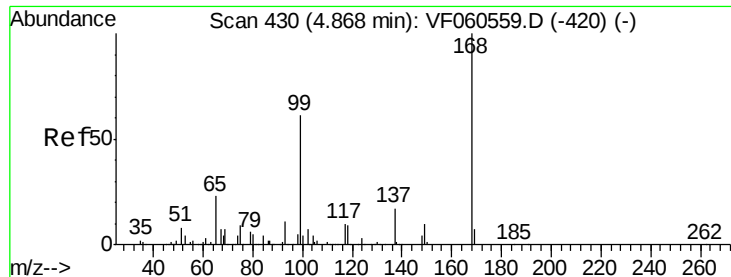
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 03 05:29:31 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF060594.D

Acq: 6 Nov 2018 4:48

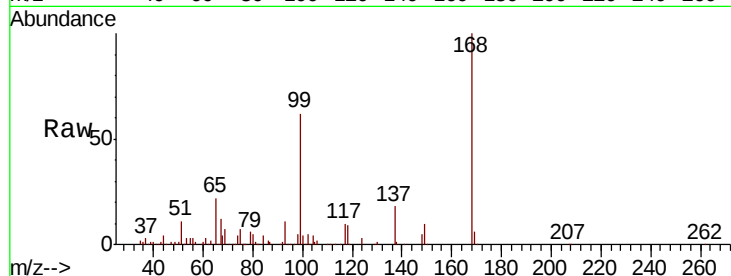
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 200649

Ion Ratio Lower Upper

168 100

99 62.4 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

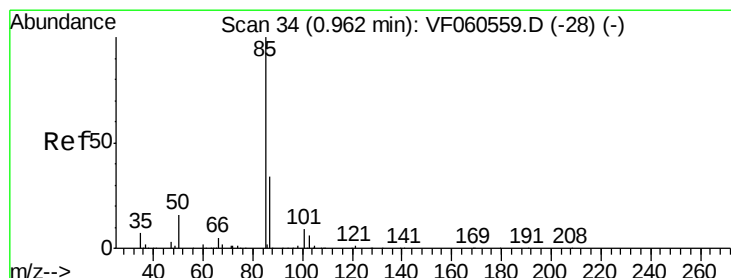
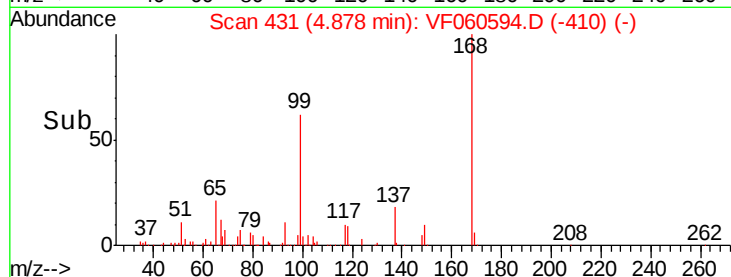
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.94 min Scan# 32

Delta R.T. -0.02 min

Lab File: VF060594.D

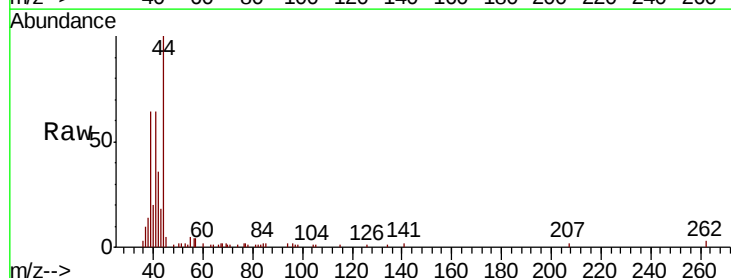
Acq: 6 Nov 2018 4:48

Tgt Ion: 85 Resp: 414

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.94

300

250

200

150

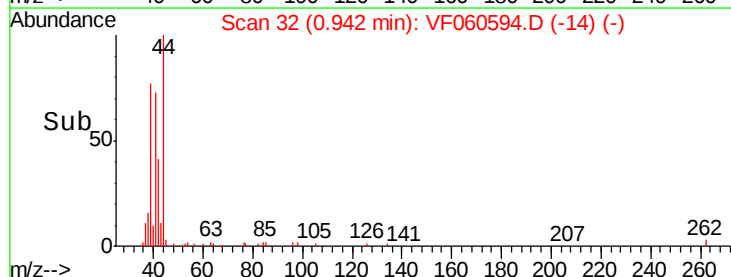
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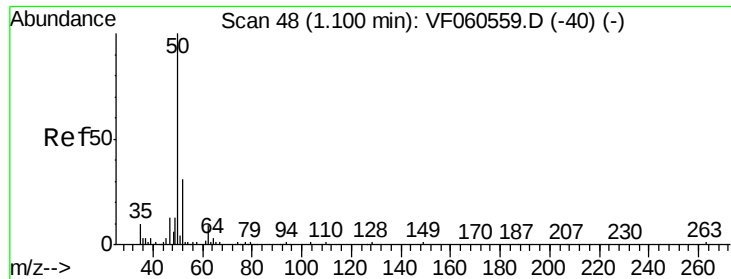
50

0

Time-->

0.92 0.94 0.96





#3

Chloromethane

Concen: 1.081 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF060594.D

Acq: 6 Nov 2018 4:48

Instrument :

MSVOA_F

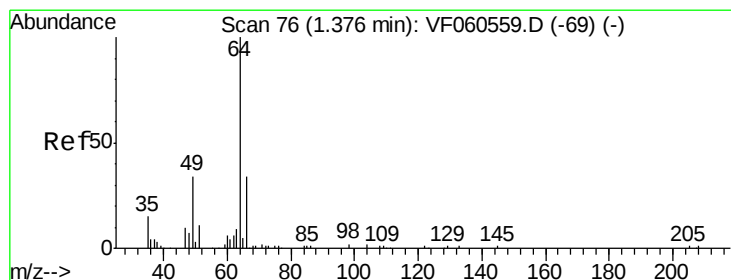
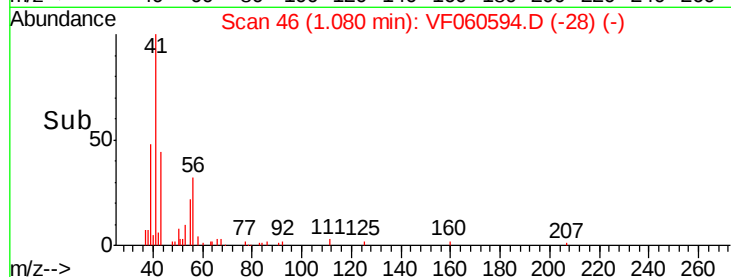
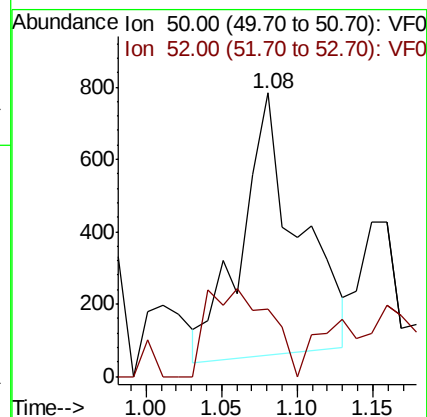
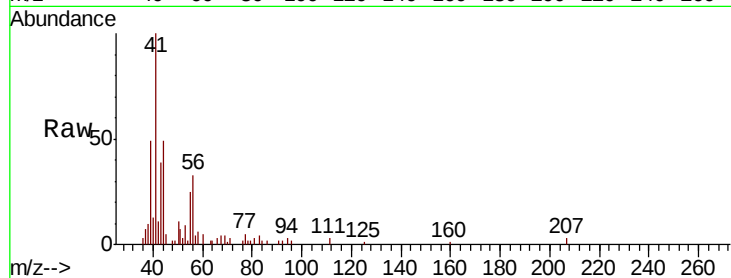
ClientSampled :

Tot Ion: 50 Resp: 1899

Ion Ratio Lower Upper

50 100

52 23.9 24.0 36.0#



#6

Chloroethane

Concen: Below Cal

RT: 1.35 min Scan# 73

Delta R.T. -0.03 min

Lab File: VF060594.D

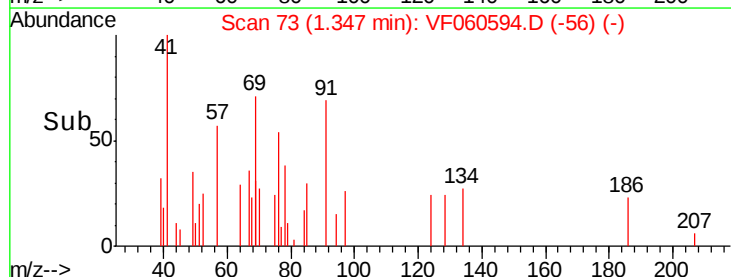
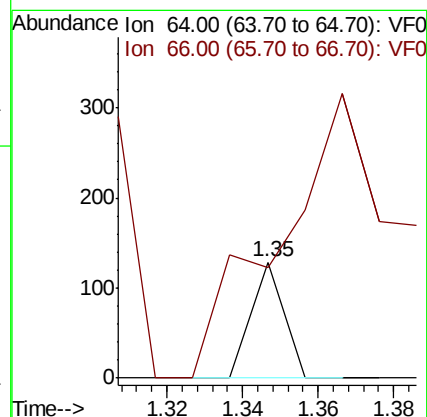
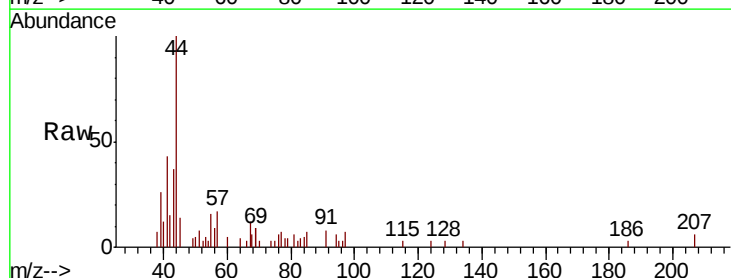
Acq: 6 Nov 2018 4:48

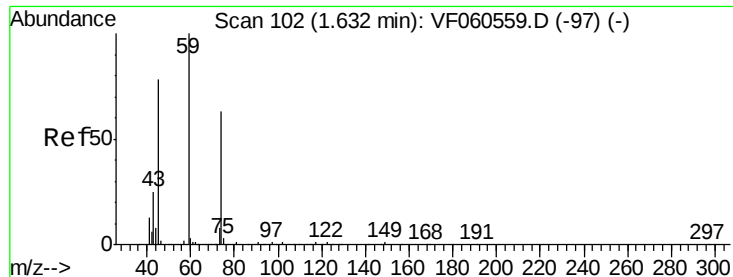
Tgt Ion: 64 Resp: 76

Ion Ratio Lower Upper

64 100

66 95.3 27.8 41.8#

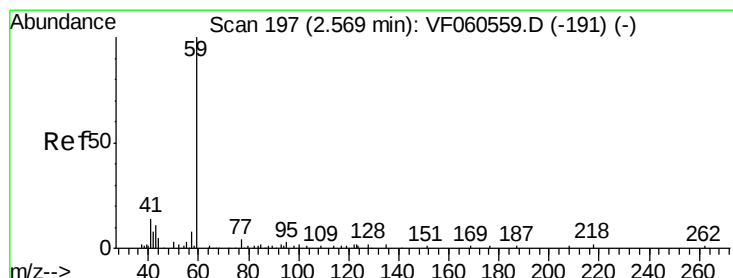
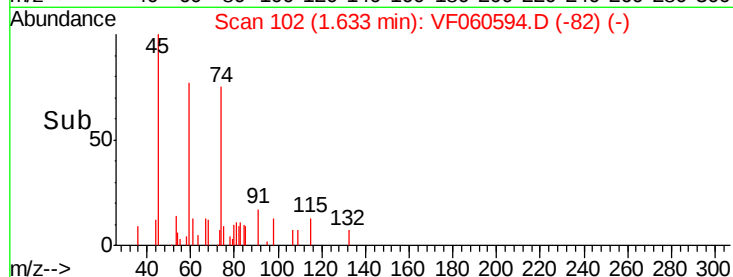
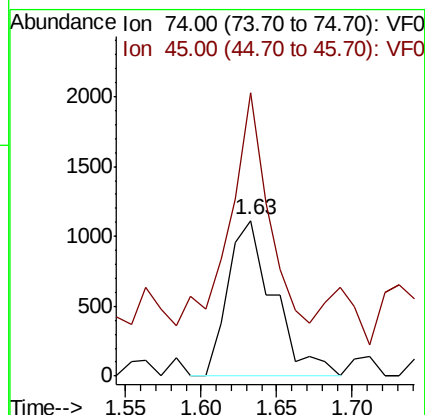
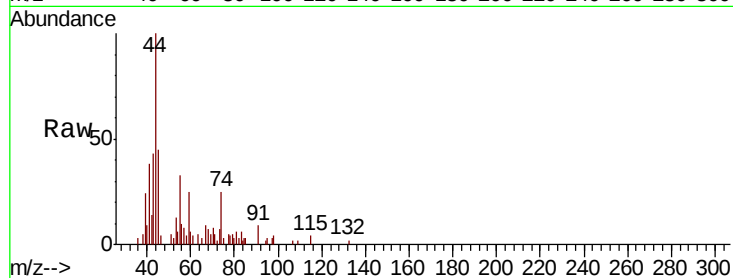




#8
Diethyl Ether
Concen: 4.190 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

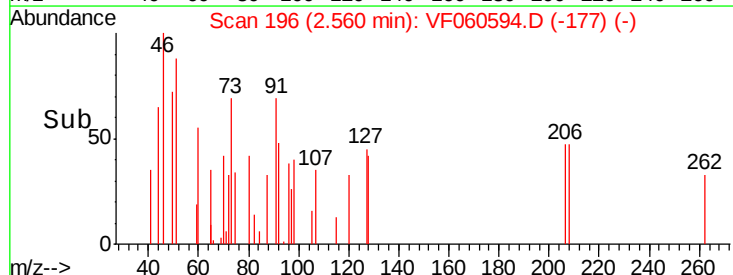
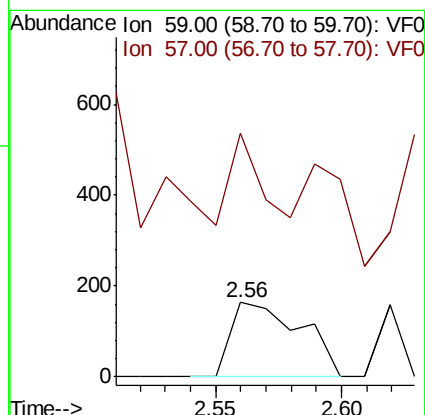
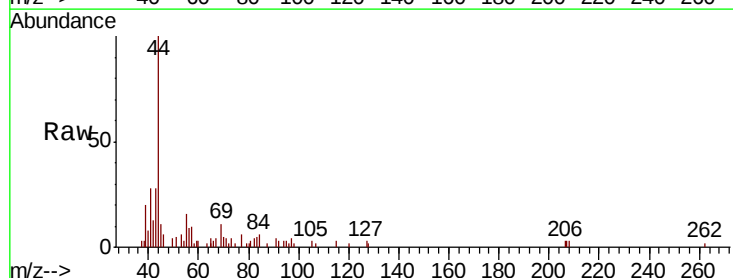
Instrument :
MSVOA_F
ClientSampled :

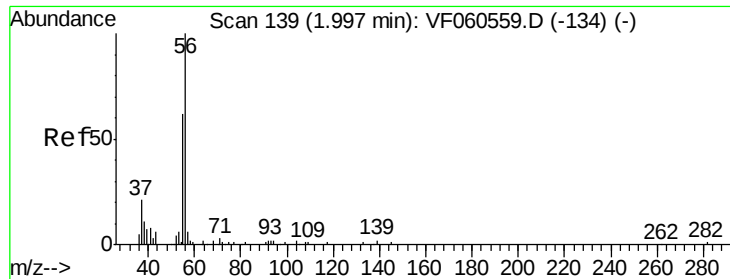
Tot Ion: 74 Resp: 2352
Ion Ratio Lower Upper
74 100
45 181.7 63.8 191.5



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.56 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

Tgt Ion: 59 Resp: 315
Ion Ratio Lower Upper
59 100
57 330.1 19.0 28.4#





#13

Acrolein

Concen: Below Cal

RT: 2.02 min Scan# 141

Delta R.T. 0.02 min

Lab File: VF060594.D

Acq: 6 Nov 2018 4:48

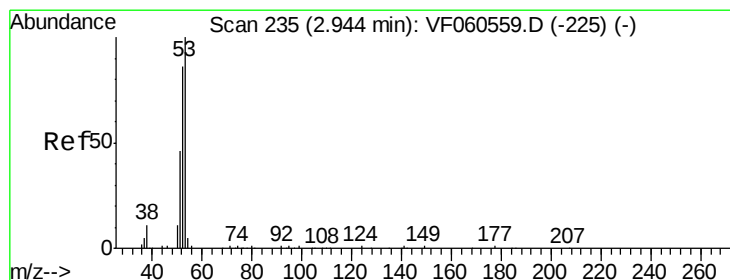
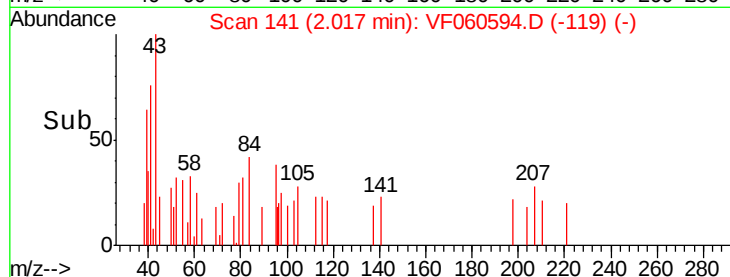
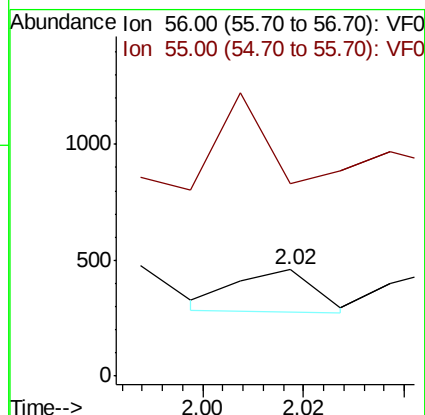
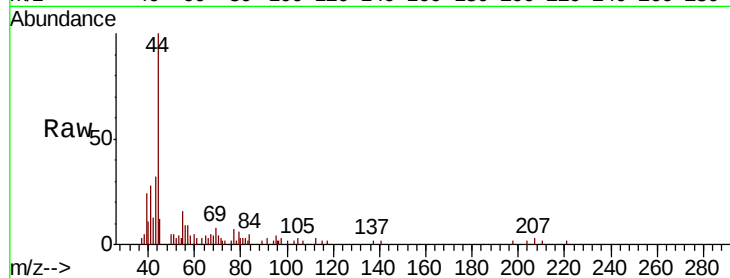
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 199

Ion Ratio Lower Upper

56 100

55 181.0 61.8 92.6#



#15

Acrylonitrile

Concen: 2.181 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060594.D

Acq: 6 Nov 2018 4:48

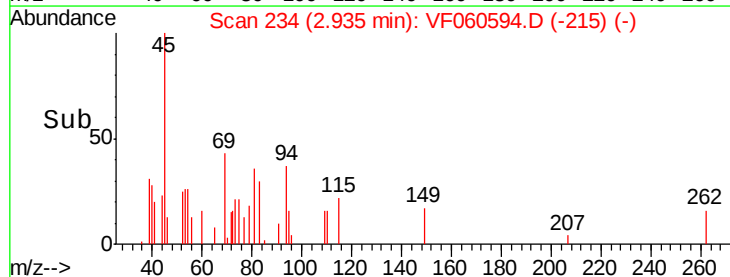
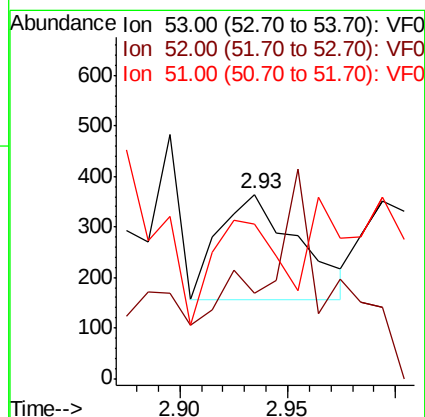
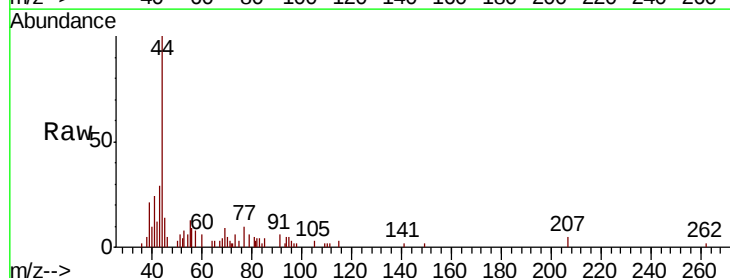
Tgt Ion: 53 Resp: 527

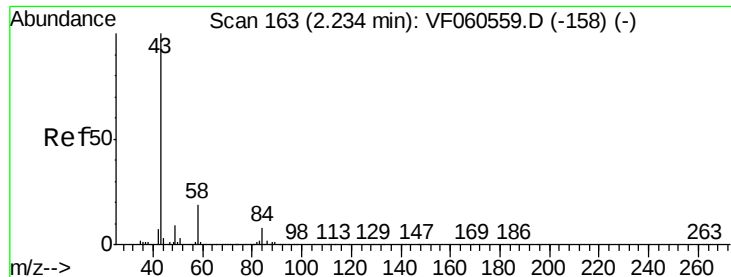
Ion Ratio Lower Upper

53 100

52 46.2 68.5 102.7#

51 83.8 38.2 57.2#





#16

Acetone

Concen: 3.408 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.16 min

Lab File: VF060594.D

Acq: 6 Nov 2018 4:48

Instrument :

MSVOA_F

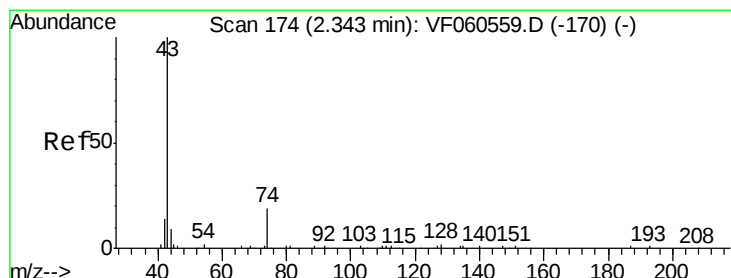
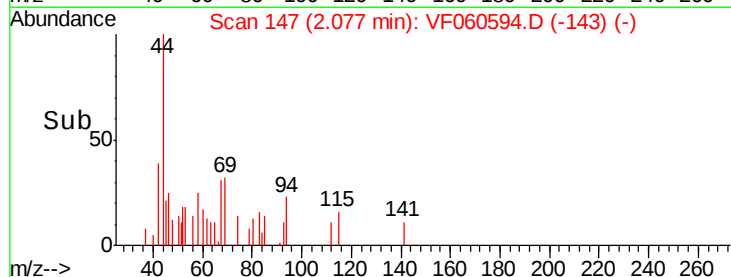
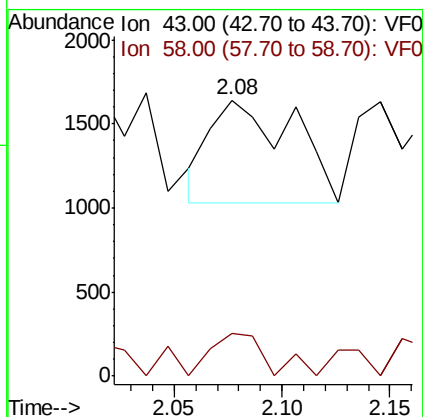
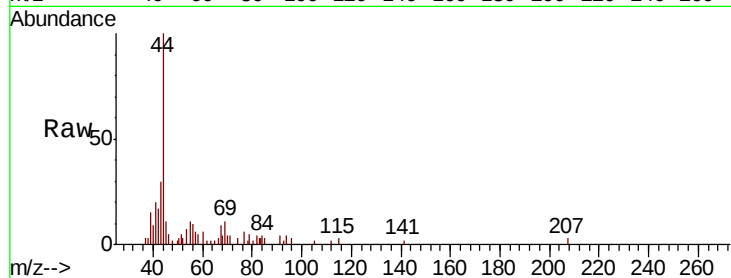
ClientSampleId :

Tot Ion: 43 Resp: 1628

Ion Ratio Lower Upper

43 100

58 15.4 14.6 22.0



#18

Methyl Acetate

Concen: 6.480 ug/l

RT: 2.34 min Scan# 174

Delta R.T. 0.00 min

Lab File: VF060594.D

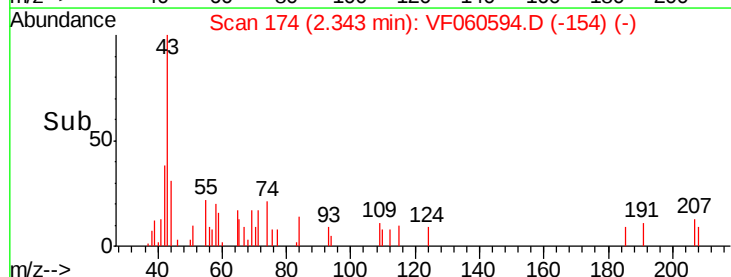
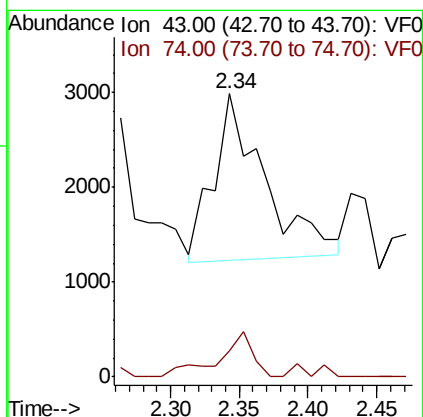
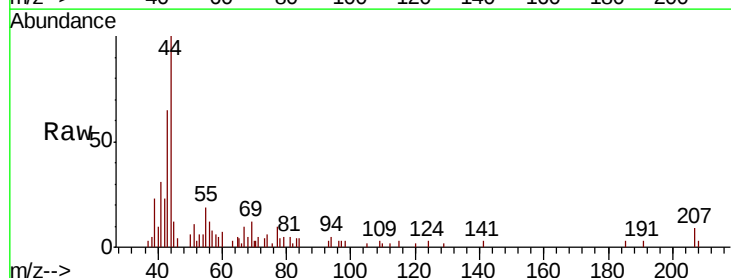
Acq: 6 Nov 2018 4:48

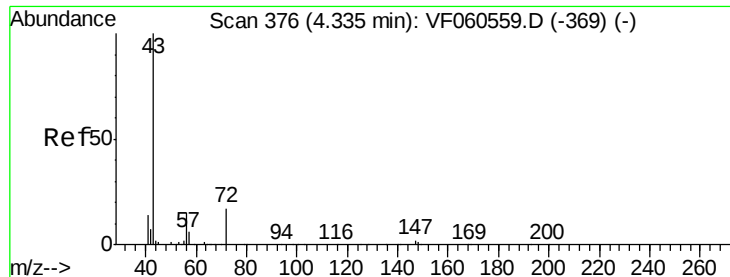
Tgt Ion: 43 Resp: 4496

Ion Ratio Lower Upper

43 100

74 9.3 12.1 18.1#

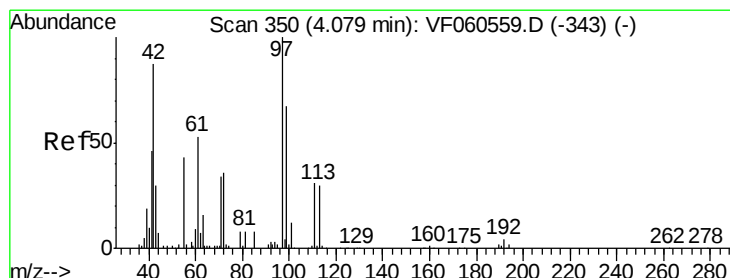
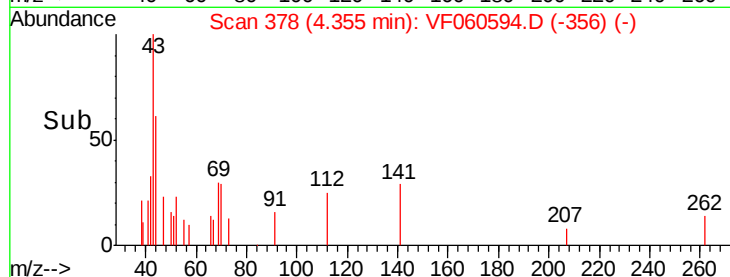
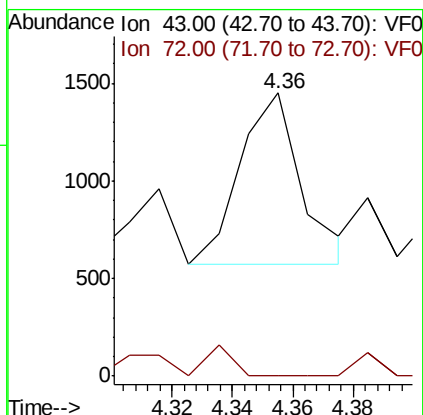
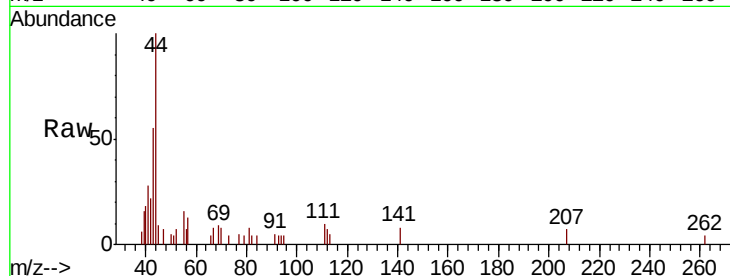




#25
2-Butanone
Concen: Below Cal
RT: 4.36 min Scan# 378
Delta R.T. 0.02 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

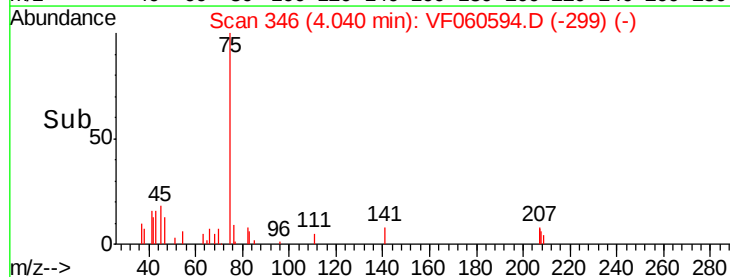
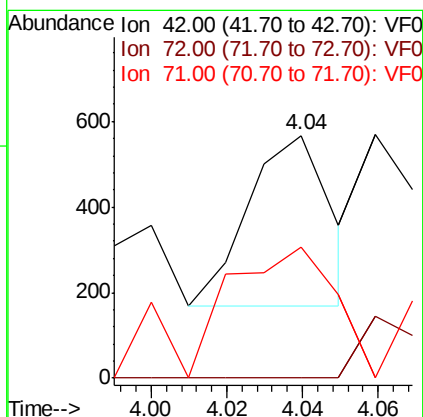
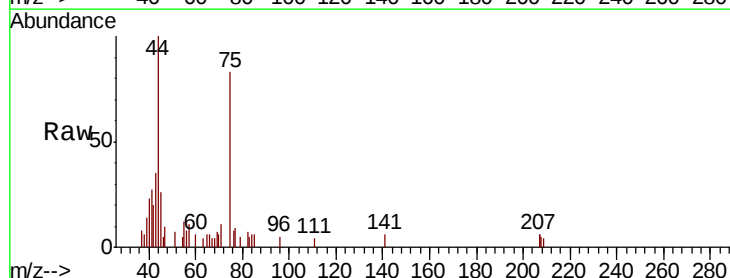
Instrument :
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ClientSampleId :

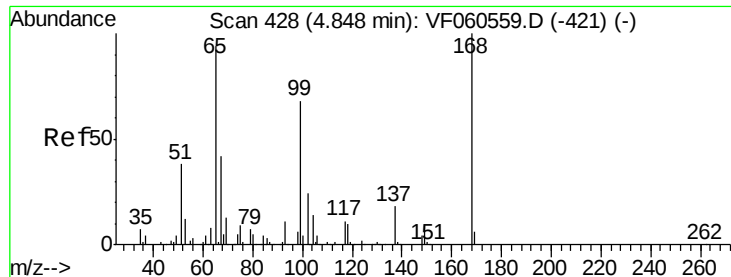
Tot Ion: 43 Resp: 1241
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.04 min Scan# 346
Delta R.T. -0.04 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

Tgt Ion: 42 Resp: 607
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 114.0 31.8 47.6#

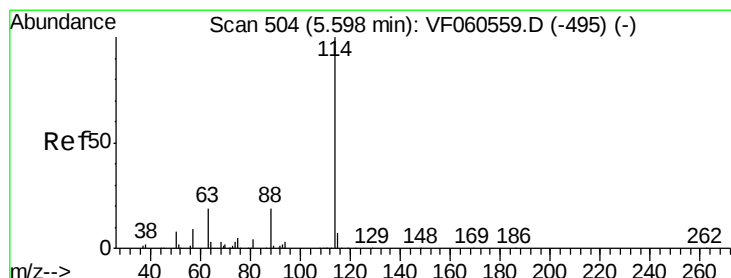
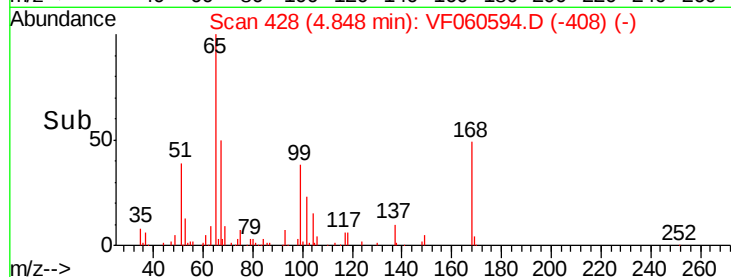
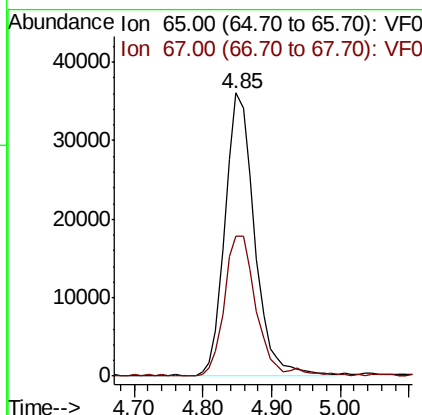
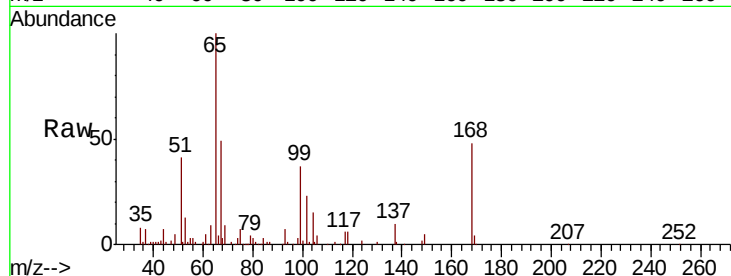




#33
 1,2-Dichloroethane-d4
 Concen: 53.338 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VF060594.D
 Acq: 6 Nov 2018 4:48

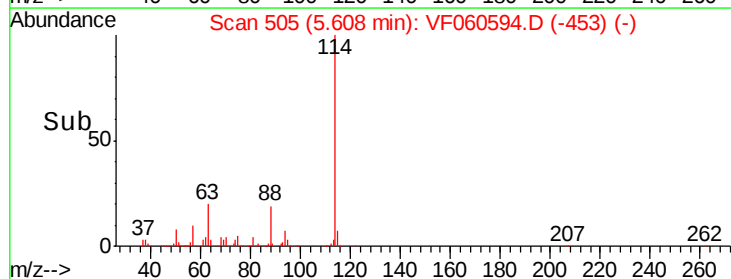
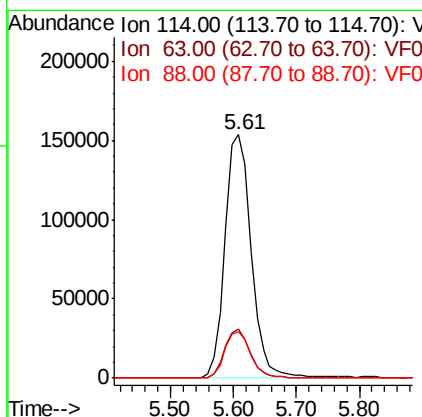
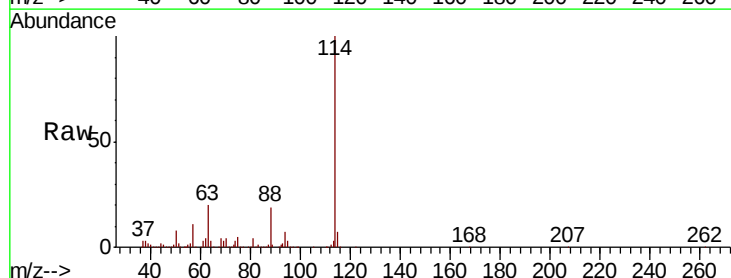
Instrument :
 MSVOA_F
 ClientSampled :

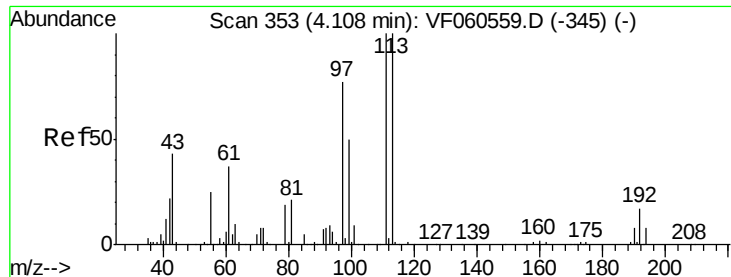
Tot Ion: 65 Resp: 108132
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VF060594.D
 Acq: 6 Nov 2018 4:48

Tgt Ion: 114 Resp: 445352
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.0
 88 18.9 0.0 38.2

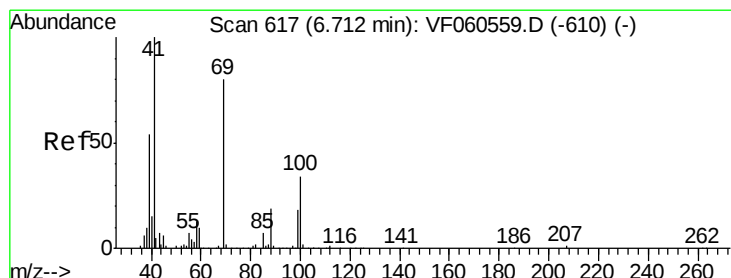
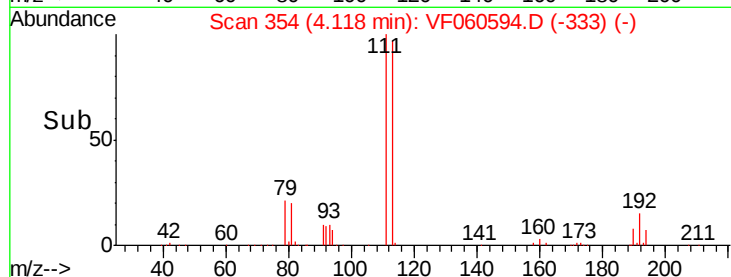
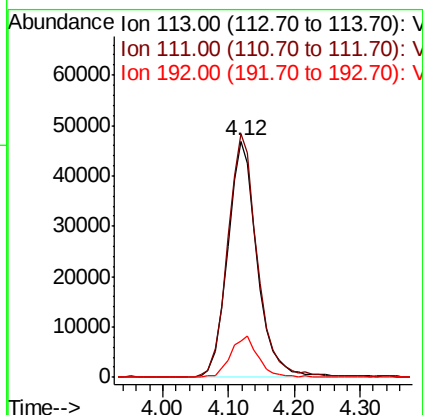
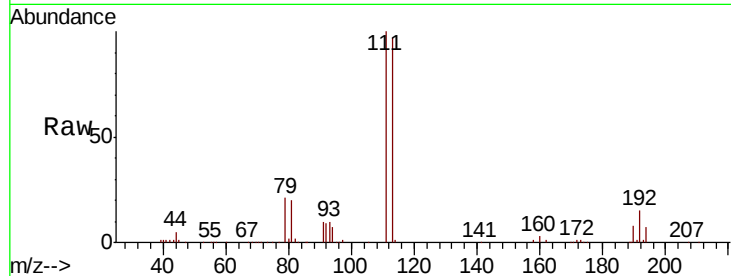




#35
Dibromofluoromethane
Concen: 42.619 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

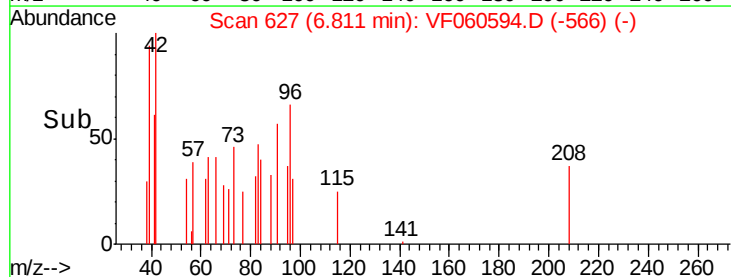
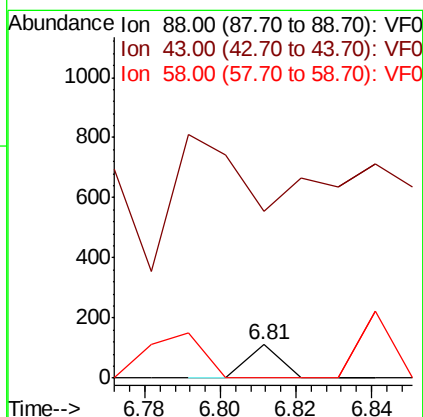
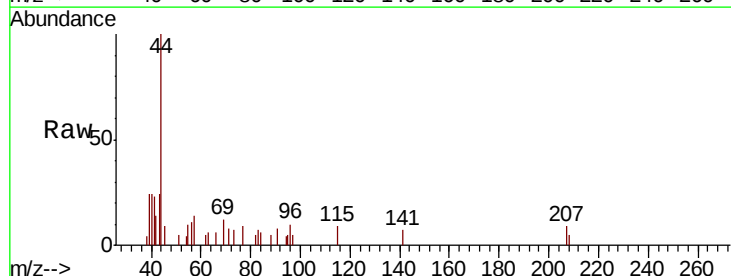
Instrument :
MSVOA_F
ClientSampleId :

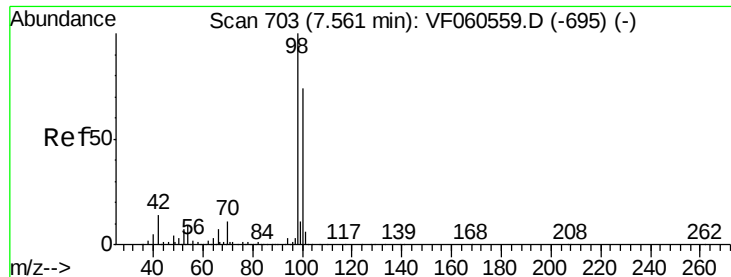
Tot Ion:113 Resp: 146644
Ion Ratio Lower Upper
113 100
111 103.2 79.9 119.9
192 15.5 13.3 19.9



#49
1,4-Dioxane
Concen: 3.371 ug/l
RT: 6.81 min Scan# 627
Delta R.T. 0.10 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 495.5 61.2 91.8#
58 0.0 56.9 85.3#





#50

Toluene-d8

Concen: 16.263 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF060594.D

Acq: 6 Nov 2018 4:48

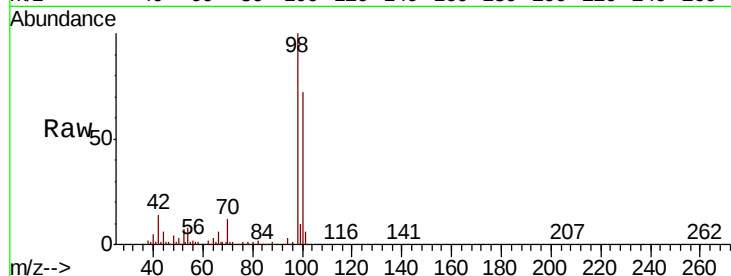
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 98 Resp: 165764

Ion Ratio Lower Upper

98 100

100 72.0 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

80000

60000

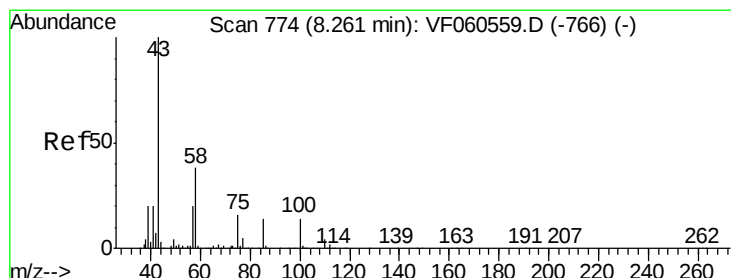
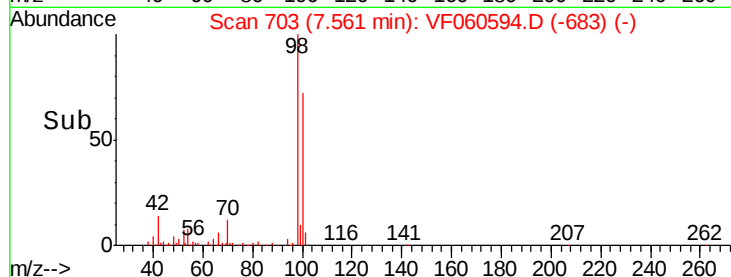
40000

20000

0

Time-->

7.40 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 1.945 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF060594.D

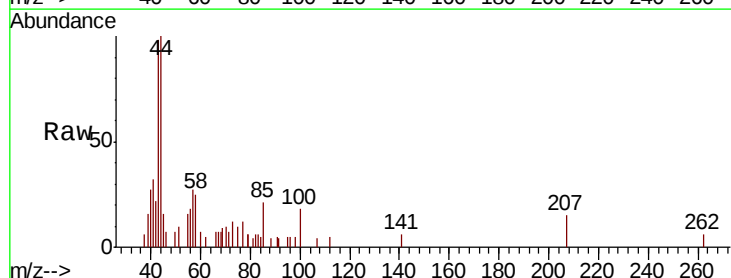
Acq: 6 Nov 2018 4:48

Tgt Ion: 43 Resp: 3895

Ion Ratio Lower Upper

43 100

58 25.8 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

2500

2000

1500

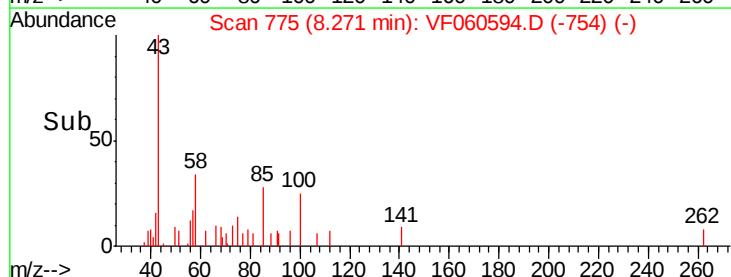
1000

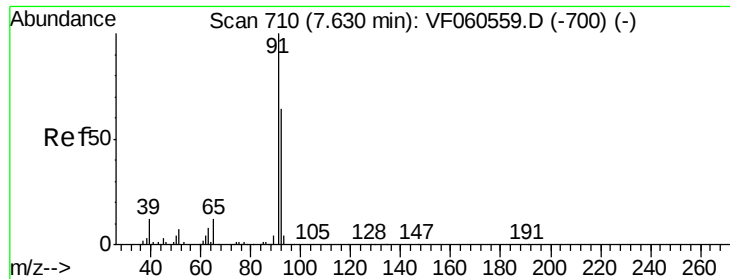
500

0

Time-->

8.20 8.25 8.30 8.35





#52

Toluene

Concen: 4.790 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060594.D

Acq: 6 Nov 2018 4:48

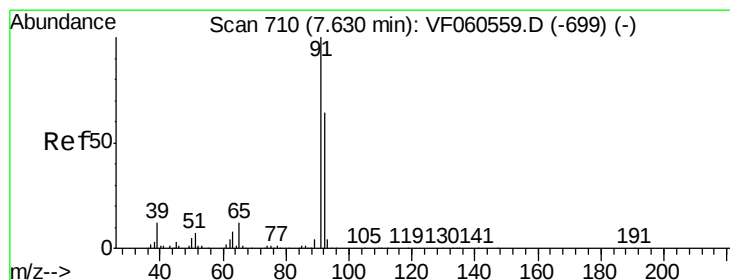
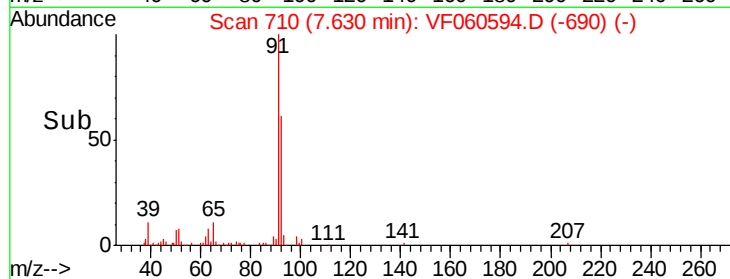
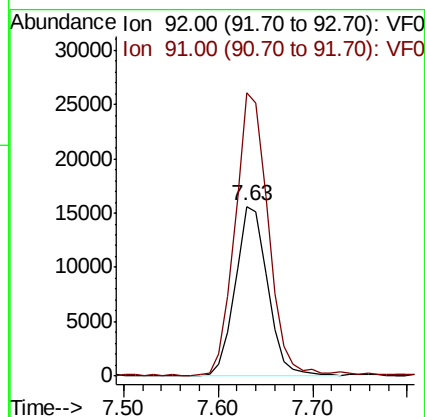
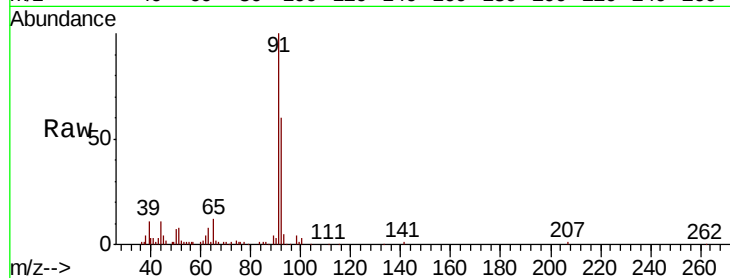
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 92 Resp: 37140

Ion Ratio Lower Upper

92 100

91 166.7 124.5 186.7



#58

2-Chloroethyl Vinyl ether

Concen: 10.568 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF060594.D

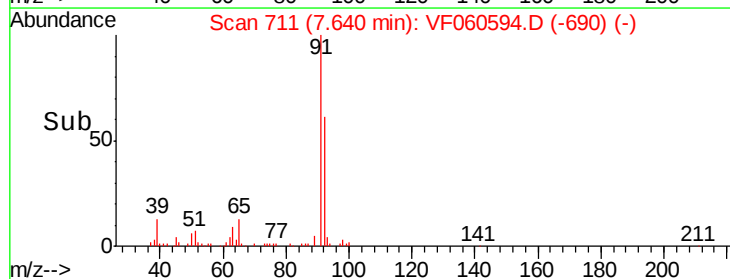
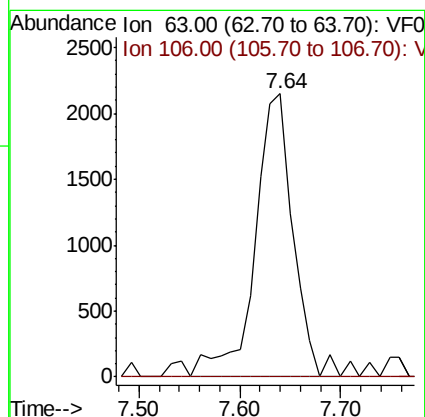
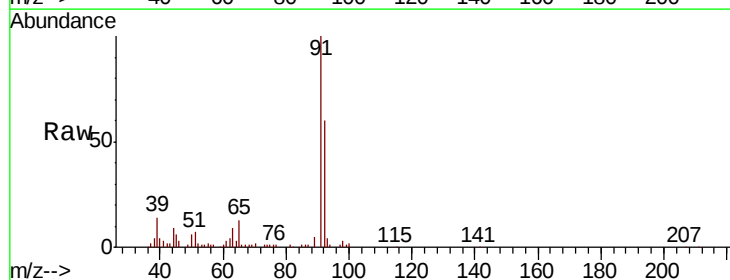
Acq: 6 Nov 2018 4:48

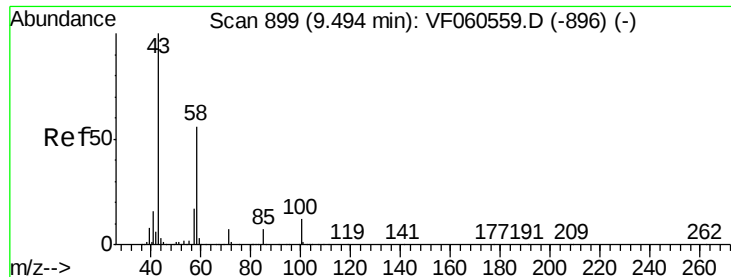
Tgt Ion: 63 Resp: 5673

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

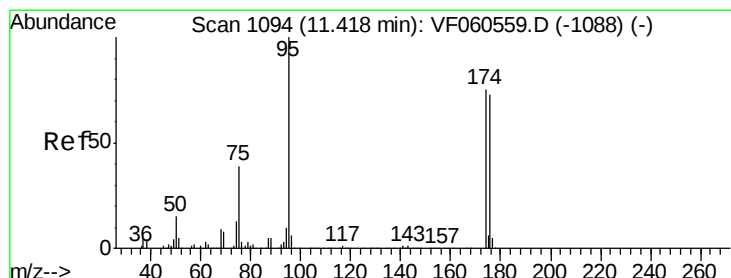
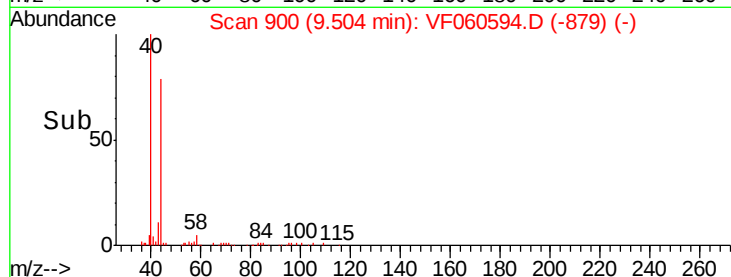
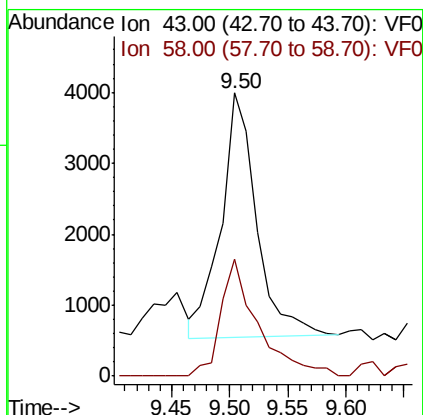
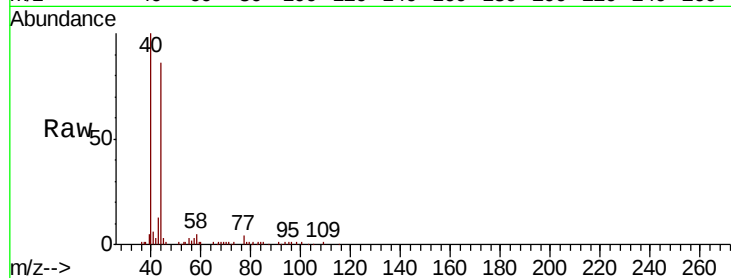




#59
2-Hexanone
Concen: Below Cal
RT: 9.50 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

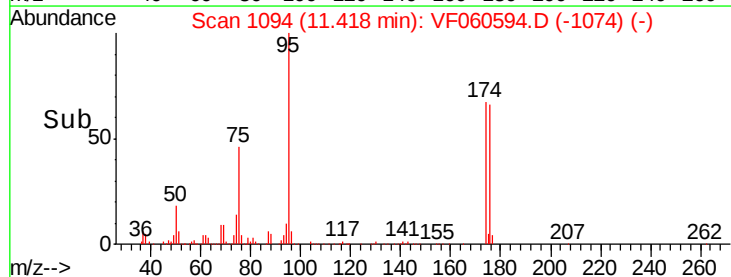
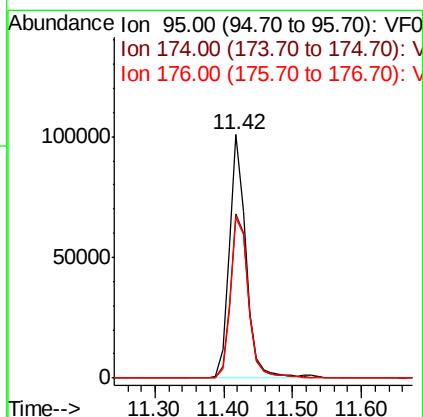
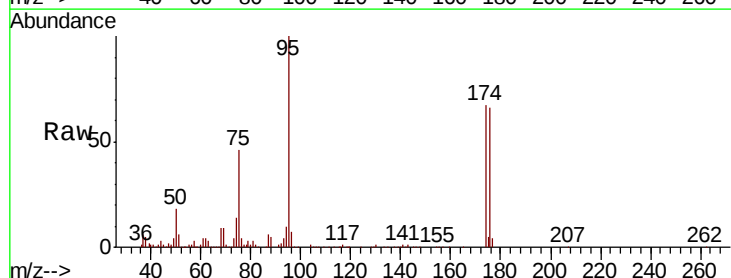
Instrument :
MSVOA_F
ClientSampleId :

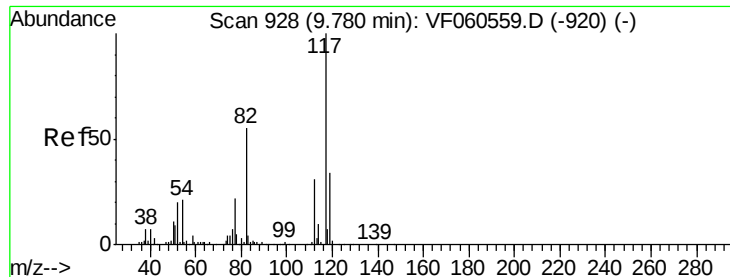
Tot Ion: 43 Resp: 7246
Ion Ratio Lower Upper
43 100
58 41.2 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 37.934 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

Tgt Ion: 95 Resp: 169124
Ion Ratio Lower Upper
95 100
174 67.2 0.0 149.0
176 65.8 0.0 145.6

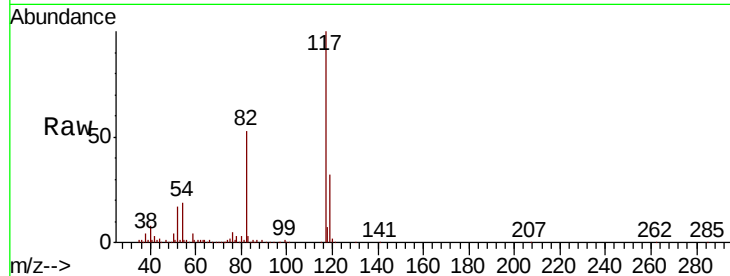




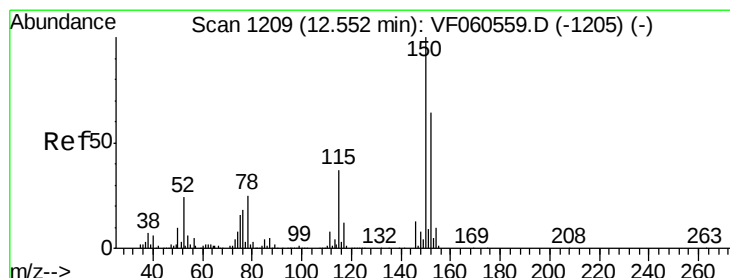
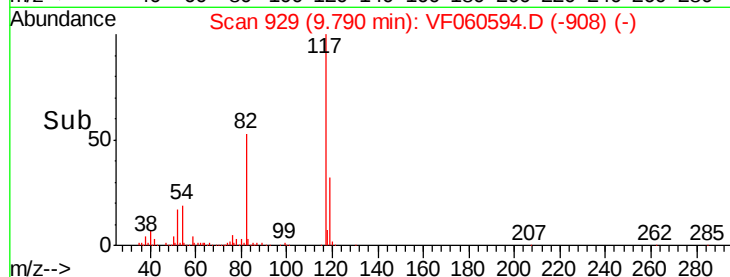
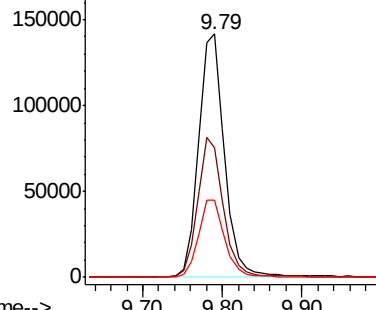
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 324358
Ion Ratio Lower Upper
117 100
82 53.4 43.9 65.9
119 31.5 27.4 41.0

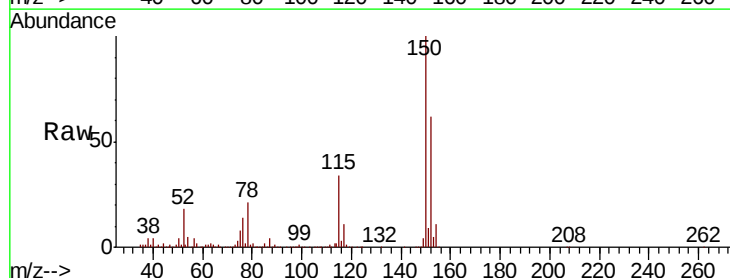


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

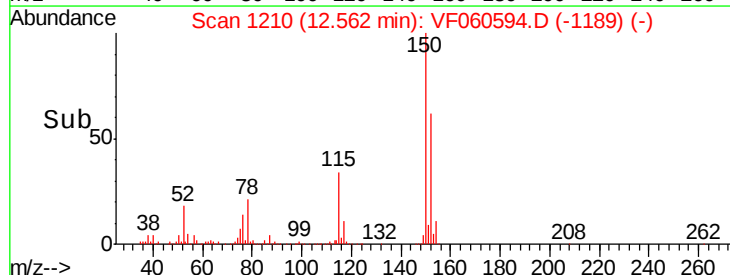
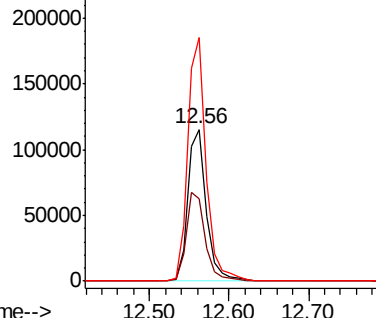


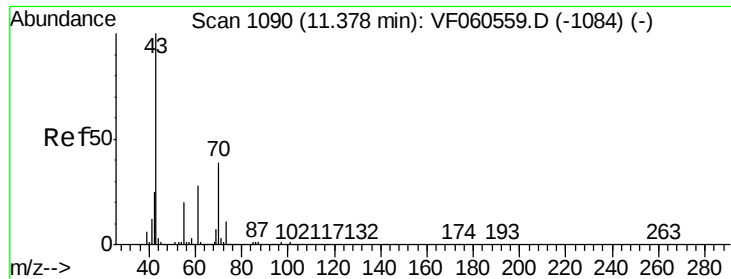
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.01 min
Lab File: VF060594.D
Acq: 6 Nov 2018 4:48

Tgt Ion:152 Resp: 191011
Ion Ratio Lower Upper
152 100
115 54.6 29.6 88.8
150 160.3 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: 11.39 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VF060594.D
 Acq: 6 Nov 2018 4:48

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 2590
 Ion Ratio Lower Upper
 43 100
 70 32.7 30.9 46.3
 55 29.5 16.6 24.8#
 61 19.0 22.0 33.0#

