

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110818\
 Data File : VF060655.D
 Acq On : 8 Nov 2018 17:48
 Operator : VA/AP
 Sample : J5838-11
 Misc : 7.43g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 09 12:33:52 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	226645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	402135	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	370175	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	185904	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	106374	46.45	ug/l	-0.01
Spiked Amount			Recovery	=	92.90%	
35) Dibromofluoromethane	4.10	113	131799	42.42	ug/l	0.00
Spiked Amount			Recovery	=	84.84%	
50) Toluene-d8	7.55	98	309152	33.59	ug/l	-0.01
Spiked Amount			Recovery	=	67.18%	
62) 4-Bromofluorobenzene	11.40	95	155011	38.50	ug/l	-0.01
Spiked Amount			Recovery	=	77.00%	

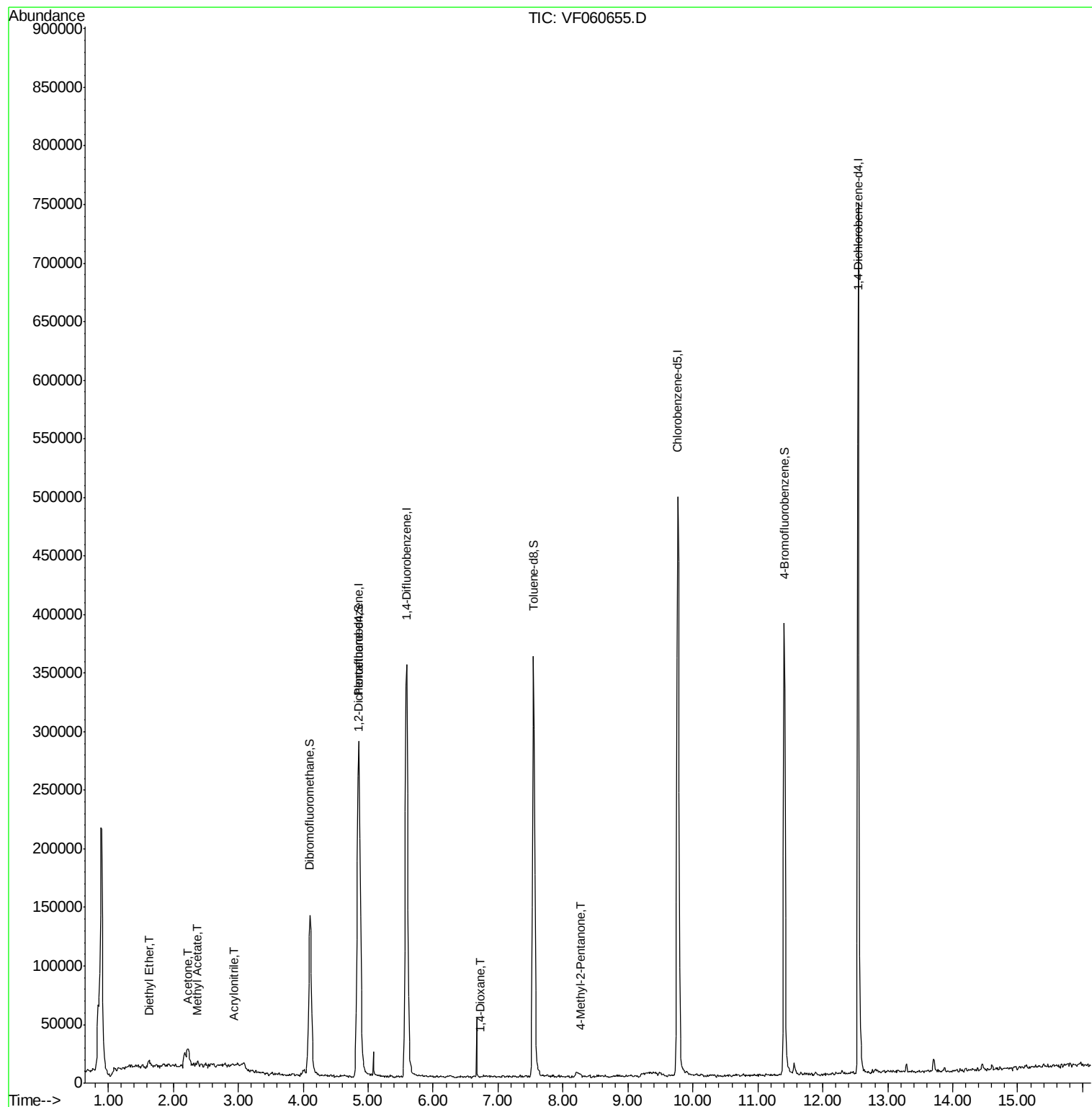
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	236	Below Cal	#	41
6) Chloroethane	1.39	64	69	Below Cal	#	10
8) Diethyl Ether	1.63	74	1426	2.249	ug/l	54
11) Tert butyl alcohol	2.54	59	90	Below Cal	#	1
13) Acrolein	2.04	56	653	Below Cal		96
15) Acrylonitrile	2.93	53	429	1.572	ug/l #	68
16) Acetone	2.23	43	11555	21.414	ug/l	97
18) Methyl Acetate	2.37	43	1173	1.865	ug/l #	64
20) Methylene Chloride	2.22	84	4751	Below Cal		92
25) 2-Butanone	4.33	43	2602	Below Cal	#	56
29) Tetrahydrofuran	4.08	42	1424	Below Cal		90
49) 1,4-Dioxane	6.74	88	70	3.960	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	1882	1.041	ug/l #	65
58) 2-Chloroethyl Vinyl ether	7.61	63	247	Below Cal		100
59) 2-Hexanone	9.49	43	3194	Below Cal		69
74) N-amyl acetate	11.39	43	2498	Below Cal	#	1
89) n-Butylbenzene	12.83	91	1014	Below Cal	#	61

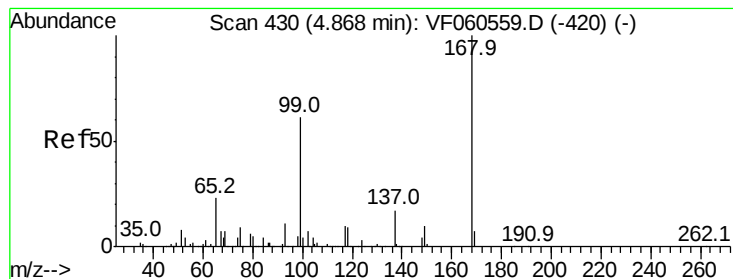
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

Instrument :

MSVOA_F

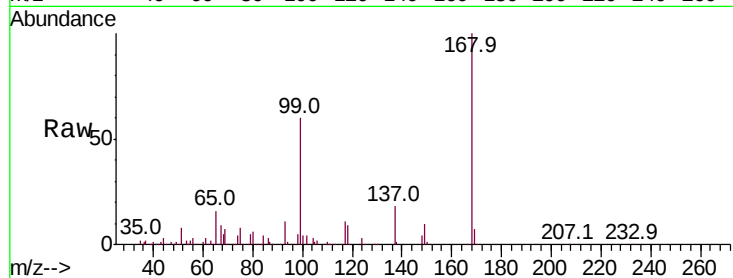
ClientSampleId :

Tot Ion:168 Resp: 226645

Ion Ratio Lower Upper

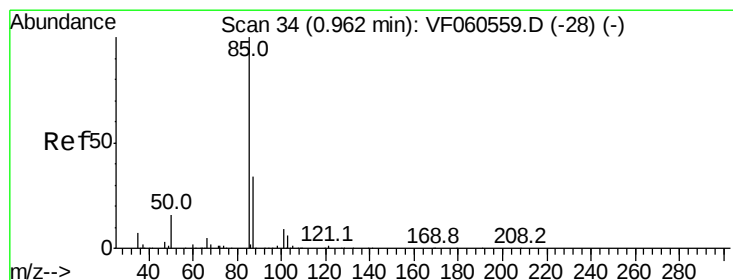
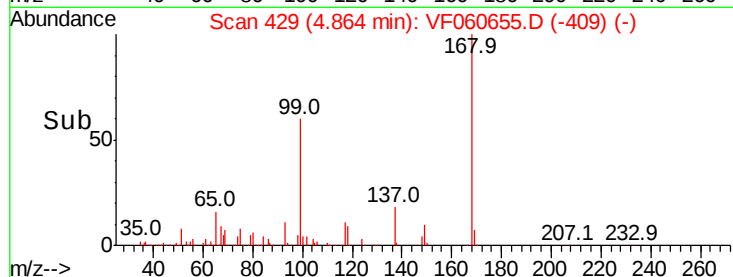
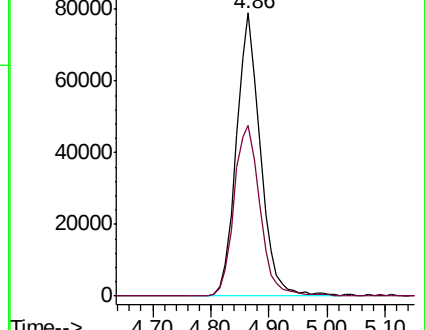
168 100

99 60.3 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 35

Delta R.T. 0.02 min

Lab File: VF060655.D

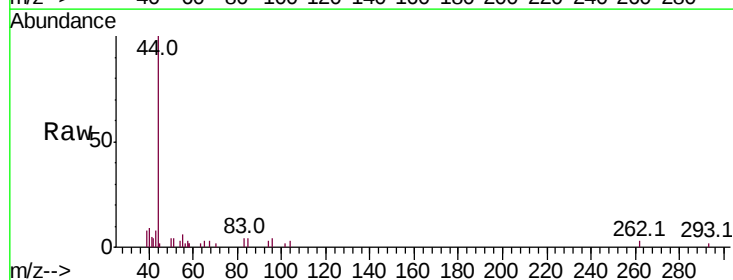
Acq: 8 Nov 2018 17:48

Tgt Ion: 85 Resp: 236

Ion Ratio Lower Upper

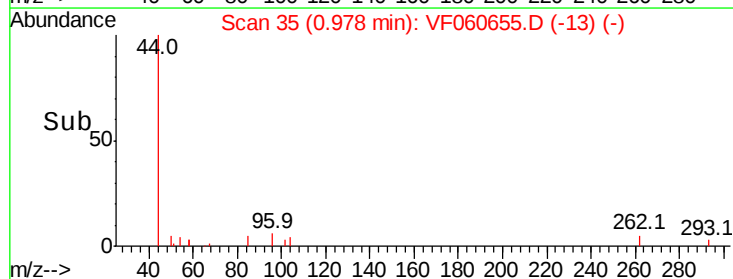
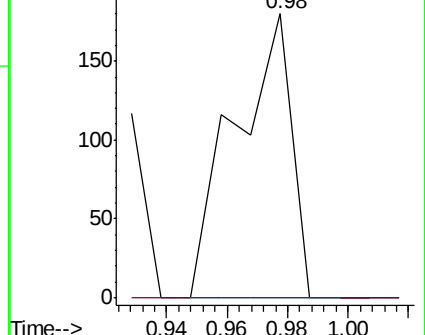
85 100

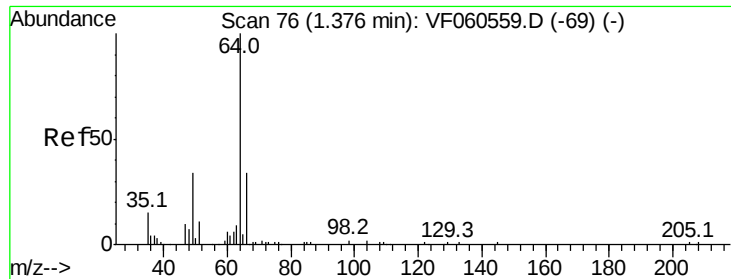
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.02 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

Instrument :

MSVOA_F

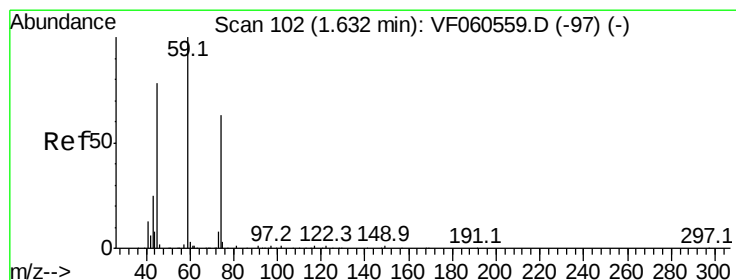
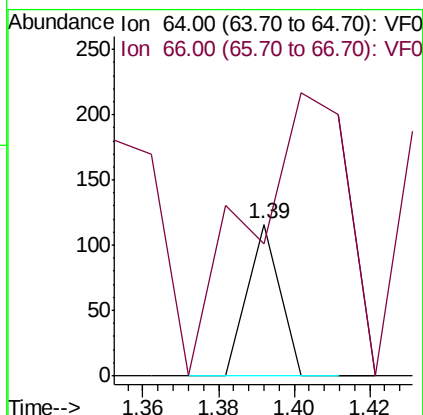
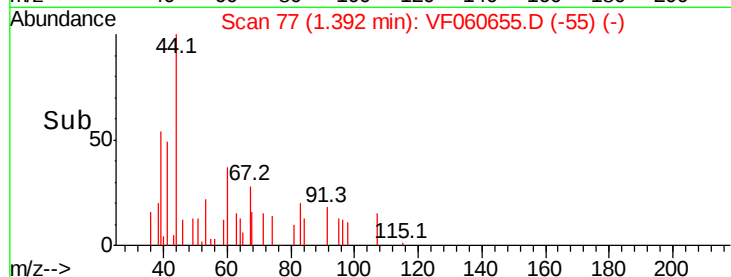
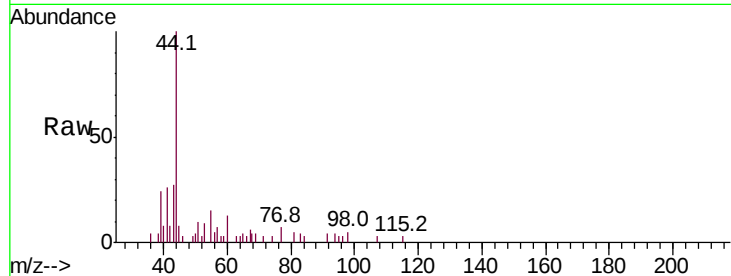
ClientSampleId :

Tot Ion: 64 Resp: 69

Ion Ratio Lower Upper

64 100

66 87.1 27.8 41.8#



#8

Diethyl Ether

Concen: 2.249 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF060655.D

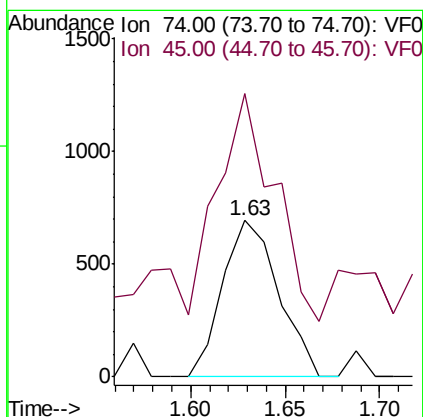
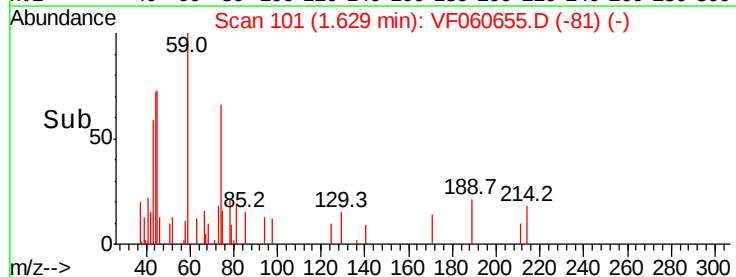
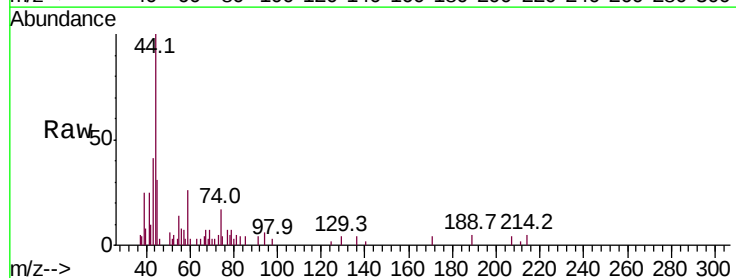
Acq: 8 Nov 2018 17:48

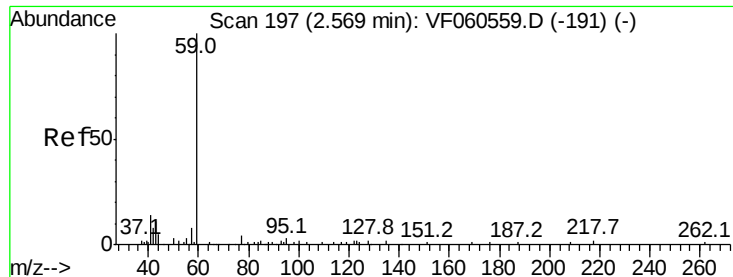
Tgt Ion: 74 Resp: 1426

Ion Ratio Lower Upper

74 100

45 181.1 63.8 191.5

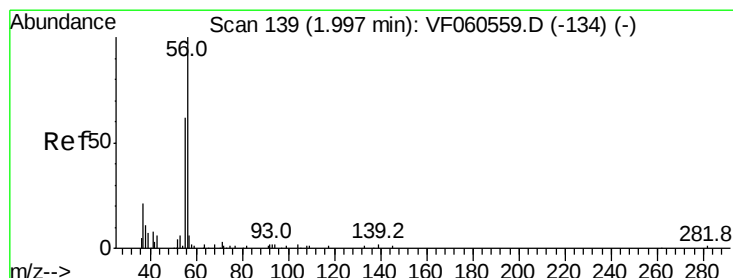
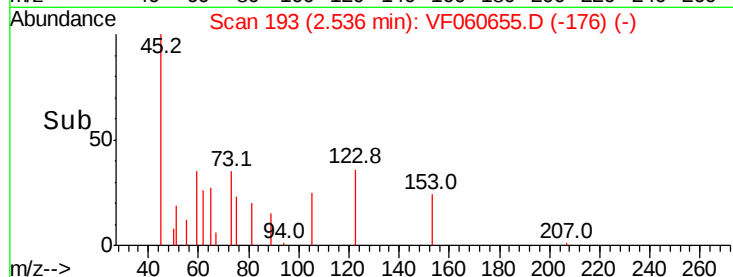
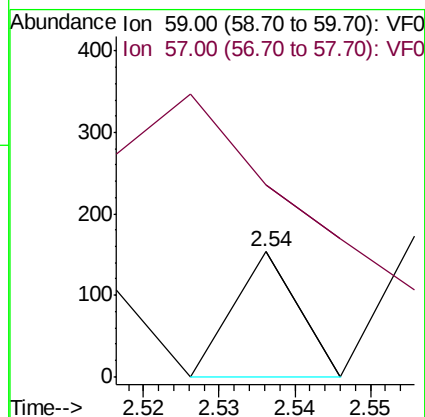
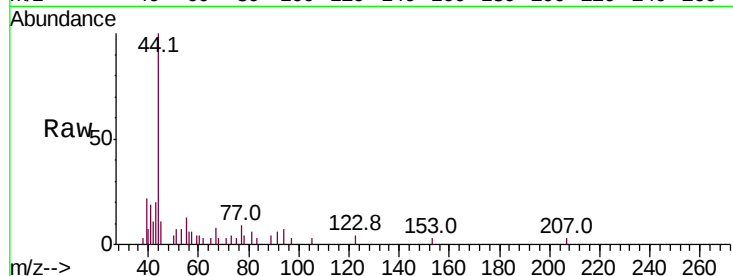




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.54 min Scan# 193
Delta R.T. -0.03 min
Lab File: VF060655.D
Acq: 8 Nov 2018 17:48

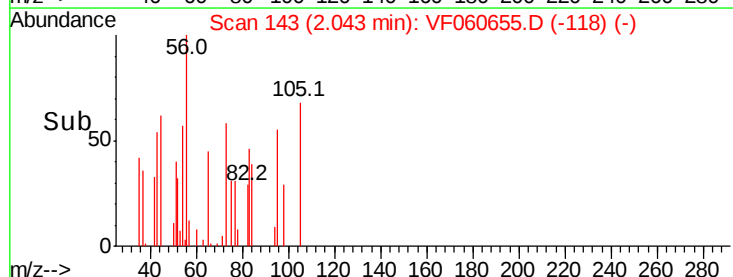
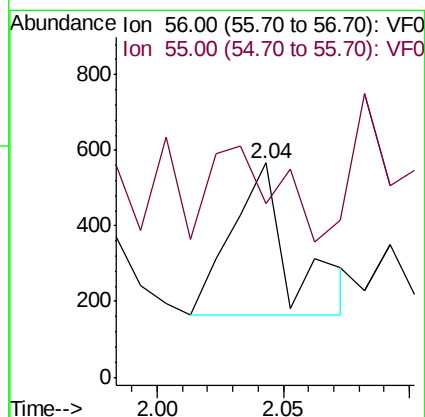
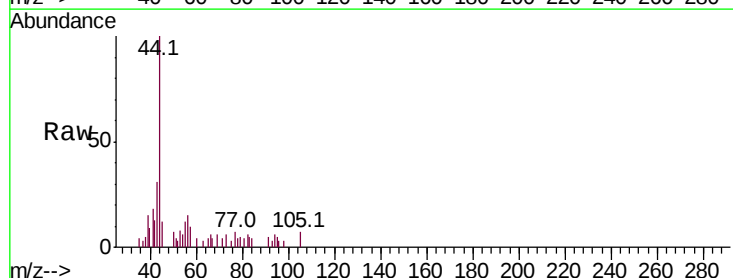
Instrument :
MSVOA_F
ClientSampled :

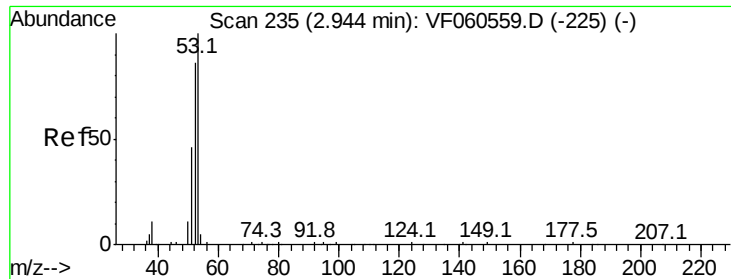
Tot Ion: 59 Resp: 90
Ion Ratio Lower Upper
59 100
57 153.6 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 2.04 min Scan# 143
Delta R.T. 0.05 min
Lab File: VF060655.D
Acq: 8 Nov 2018 17:48

Tgt Ion: 56 Resp: 653
Ion Ratio Lower Upper
56 100
55 80.8 61.8 92.6





#15

Acrylonitrile

Concen: 1.572 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

Instrument :
MSVOA_F
ClientSampleId :

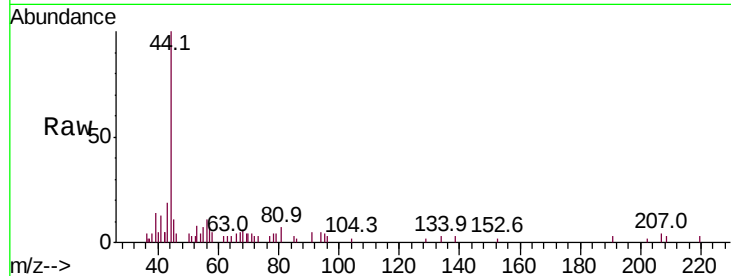
Tot Ion: 53 Resp: 429

Ion Ratio Lower Upper

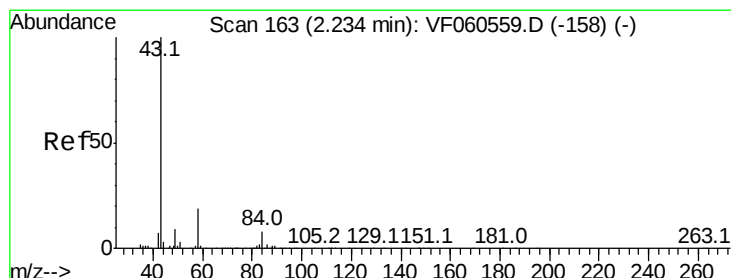
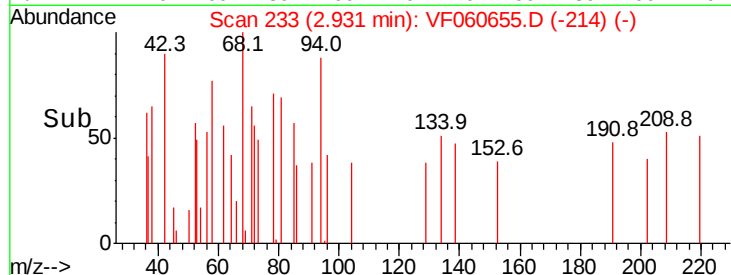
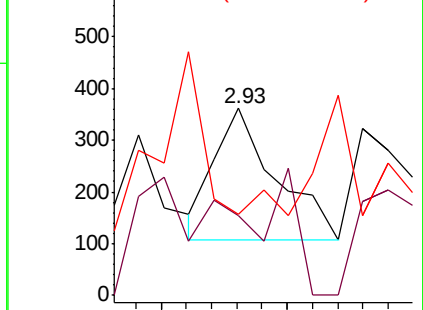
53 100

52 42.8 68.5 102.7#

51 43.4 38.2 57.2



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 21.414 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF060655.D

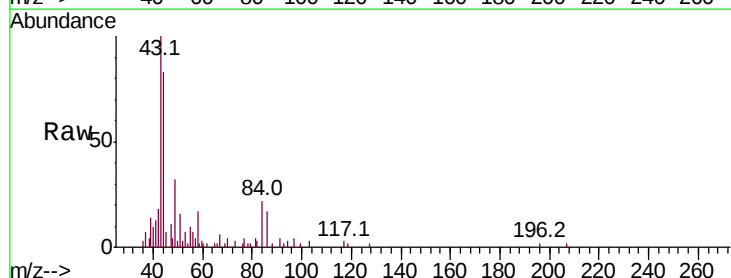
Acq: 8 Nov 2018 17:48

Tgt Ion: 43 Resp: 11555

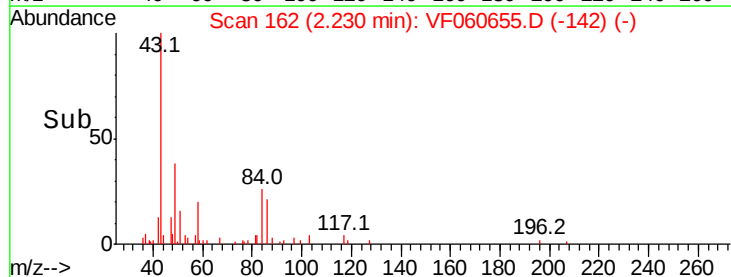
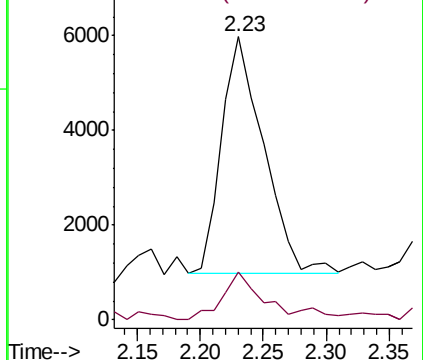
Ion Ratio Lower Upper

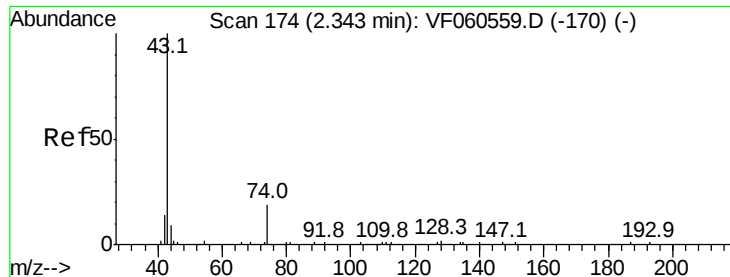
43 100

58 16.9 14.6 22.0



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

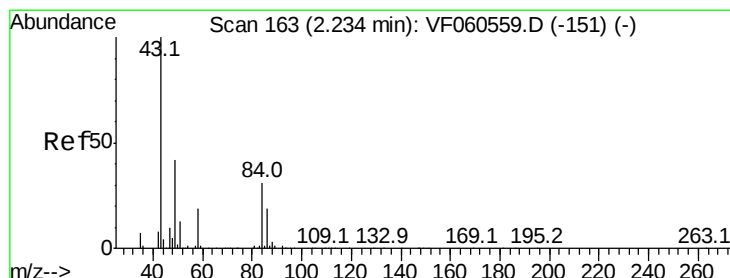
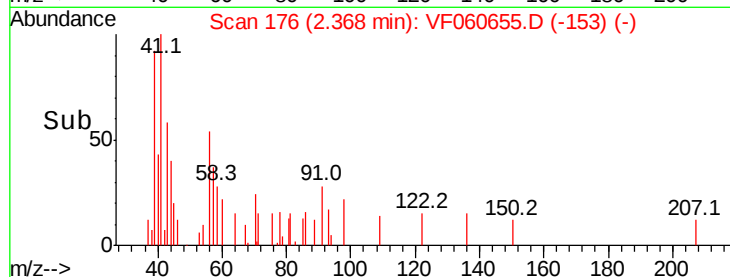
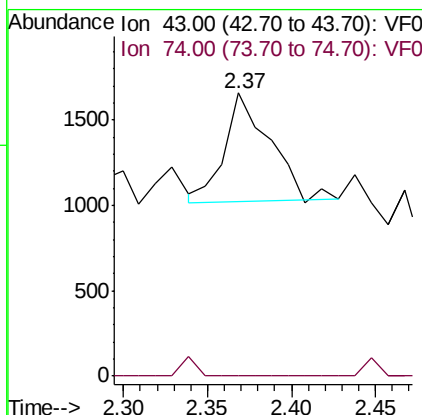
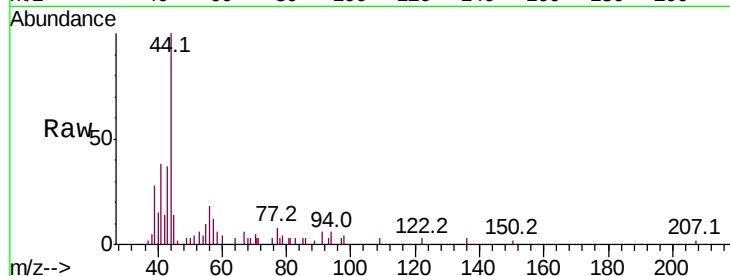




#18
Methyl Acetate
Concen: 1.865 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.03 min
Lab File: VF060655.D
Acq: 8 Nov 2018 17:48

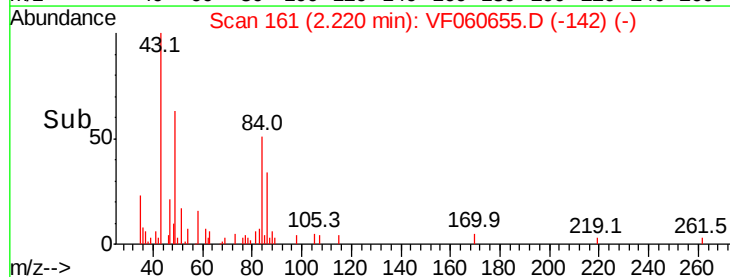
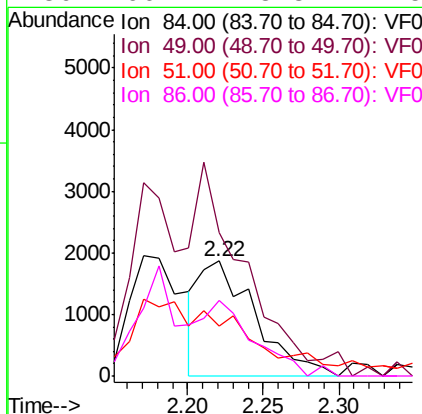
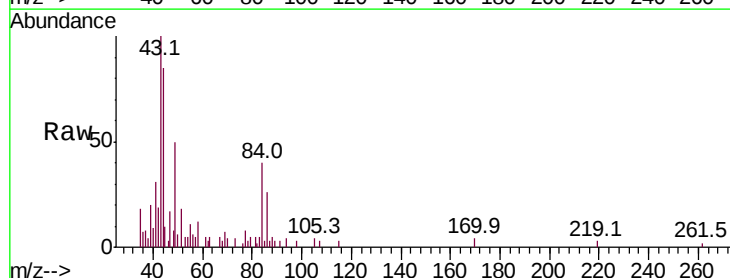
Instrument :
MSVOA_F
ClientSampled :

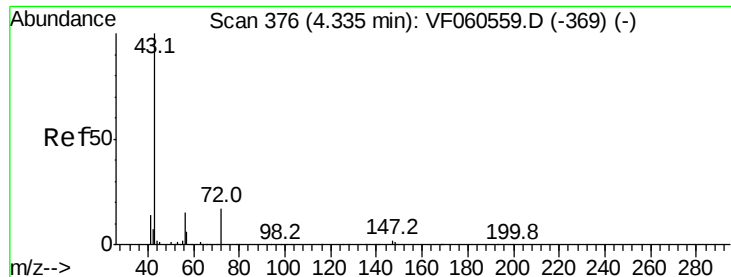
Tot Ion: 43 Resp: 1173
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.22 min Scan# 161
Delta R.T. -0.01 min
Lab File: VF060655.D
Acq: 8 Nov 2018 17:48

Tgt Ion: 84 Resp: 4751
Ion Ratio Lower Upper
84 100
49 124.3 109.9 164.9
51 44.0 35.8 53.8
86 66.1 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.33 min Scan# 375

Delta R.T. -0.00 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

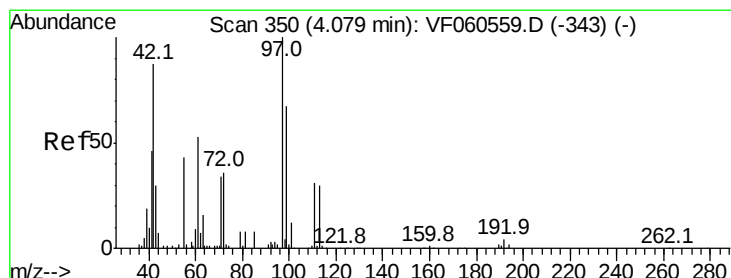
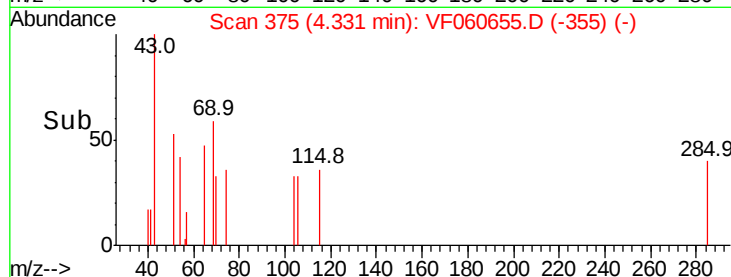
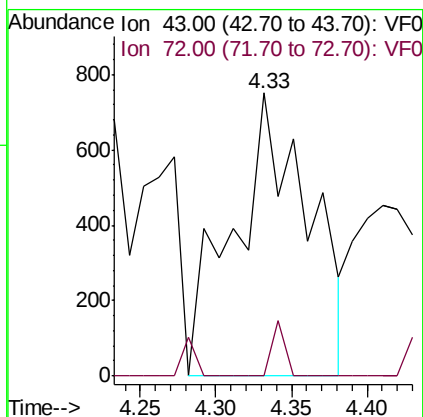
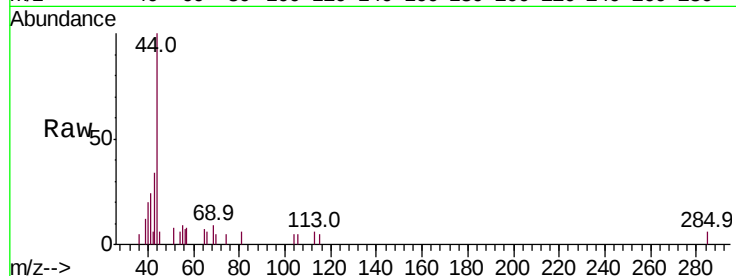
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 2602

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

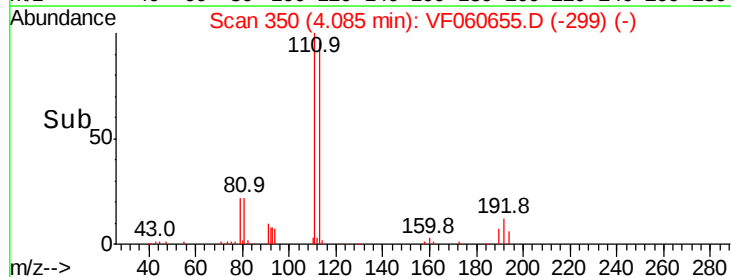
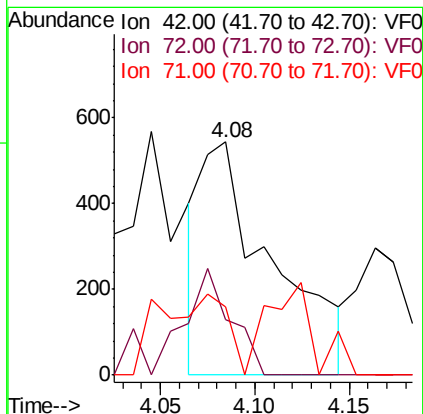
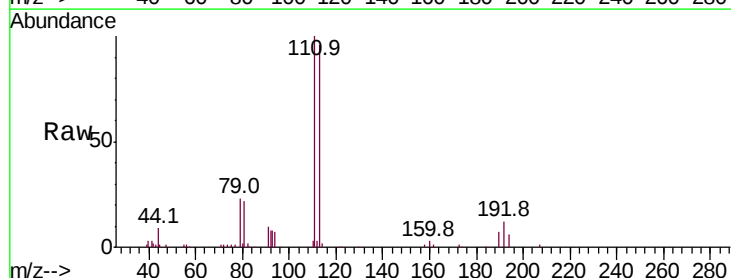
Tgt Ion: 42 Resp: 1424

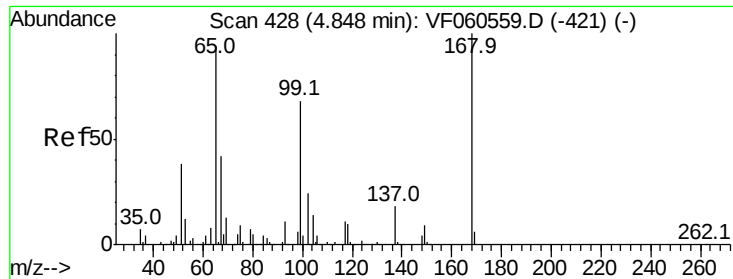
Ion Ratio Lower Upper

42 100

72 34.1 31.4 47.0

71 32.9 31.8 47.6





#33

1,2-Dichloroethane-d4

Concen: 46.452 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

Instrument :

MSVOA_F

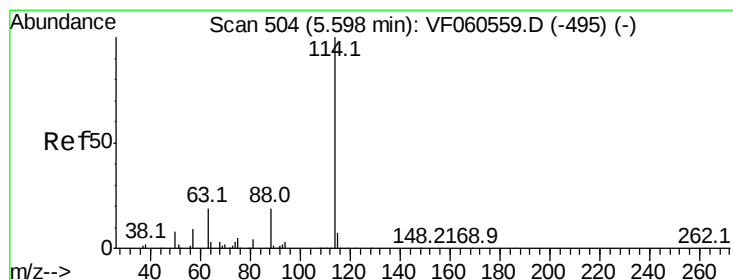
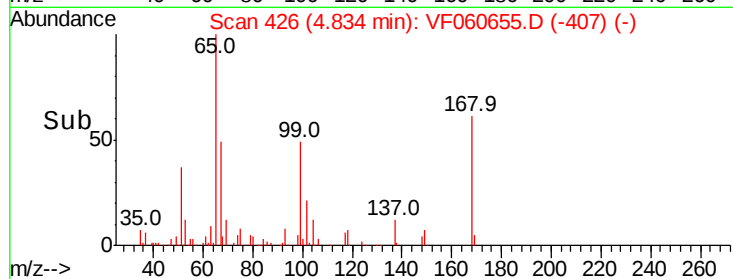
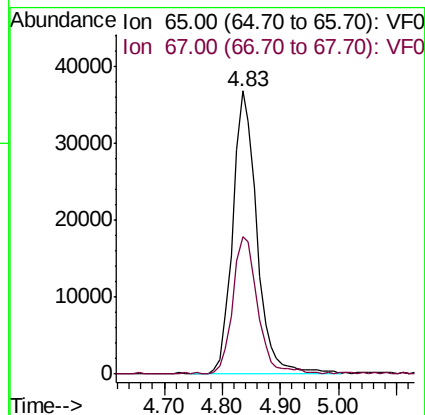
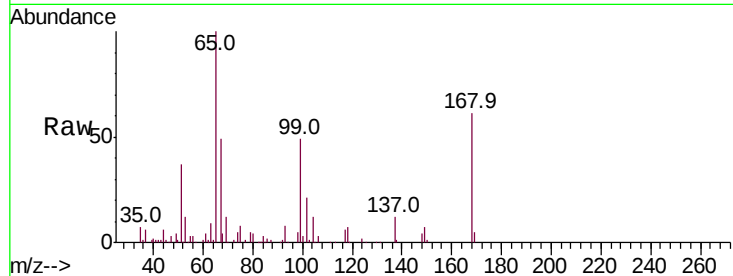
ClientSampleId :

Tot Ion: 65 Resp: 106374

Ion Ratio Lower Upper

65 100

67 48.6 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

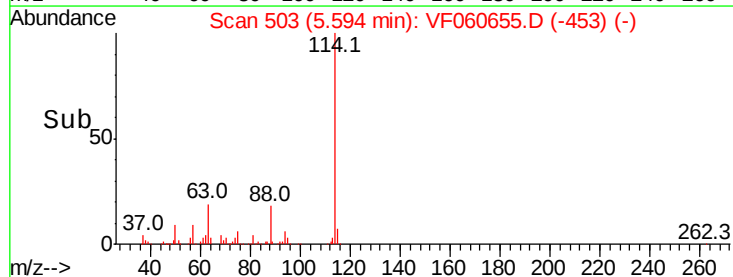
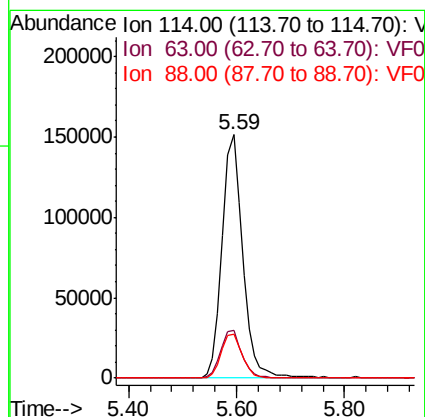
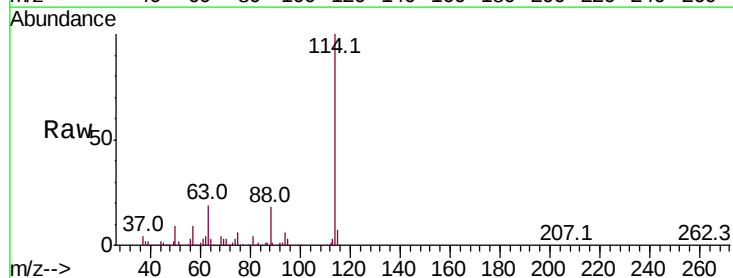
Tgt Ion: 114 Resp: 402135

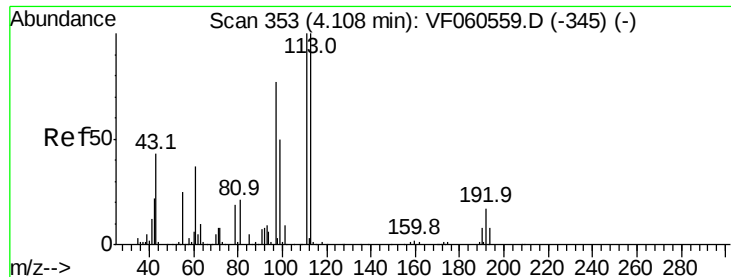
Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.0

88 18.2 0.0 38.2

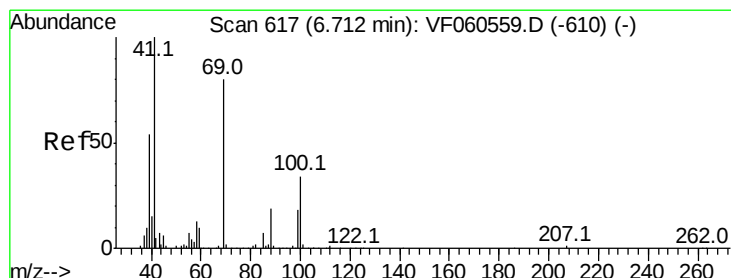
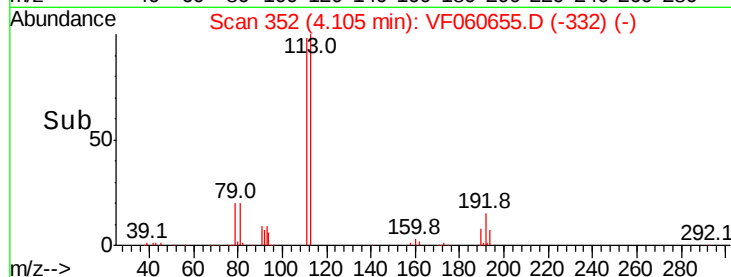
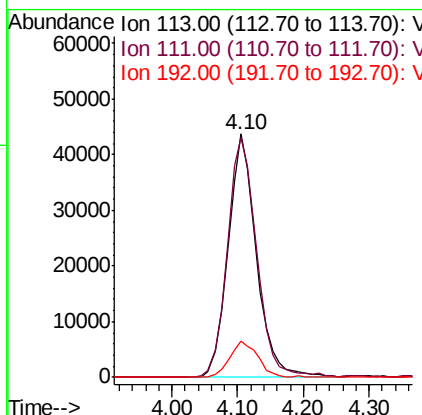
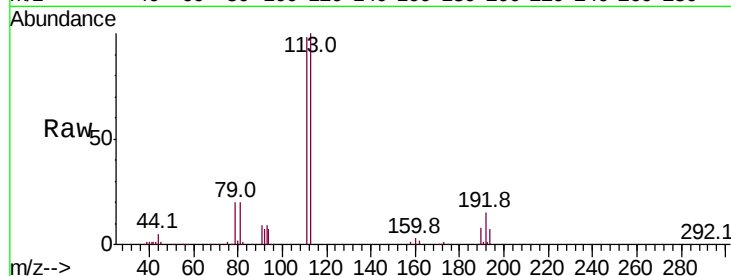




#35
 Dibromofluoromethane
 Concen: 42.422 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VF060655.D
 Acq: 8 Nov 2018 17:48

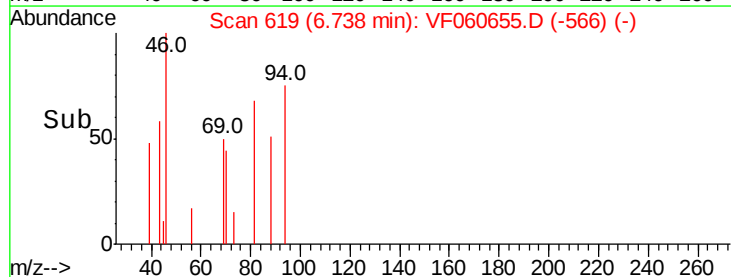
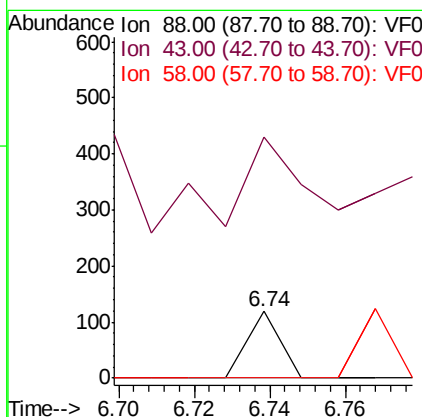
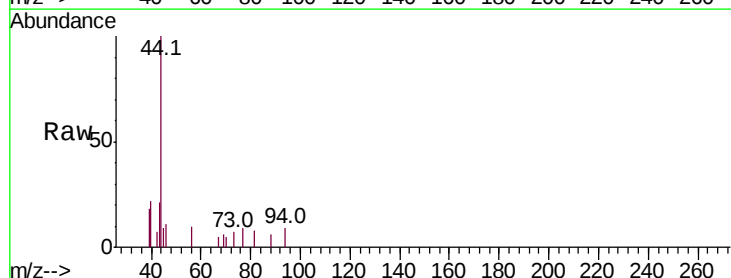
Instrument :
 MSVOA_F
 ClientSampled :

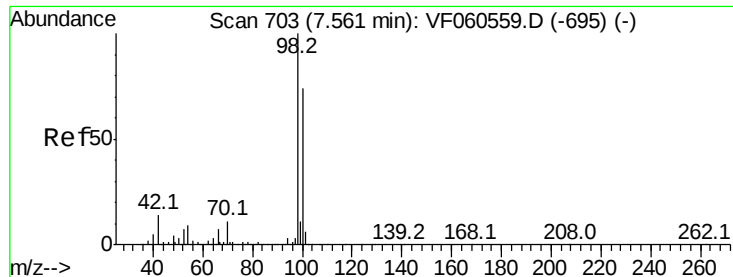
Tot Ion:113 Resp: 131799
 Ion Ratio Lower Upper
 113 100
 111 98.3 79.9 119.9
 192 15.4 13.3 19.9



#49
 1,4-Dioxane
 Concen: 3.960 ug/l
 RT: 6.74 min Scan# 619
 Delta R.T. 0.03 min
 Lab File: VF060655.D
 Acq: 8 Nov 2018 17:48

Tgt Ion: 88 Resp: 70
 Ion Ratio Lower Upper
 88 100
 43 360.5 61.2 91.8#
 58 0.0 56.9 85.3#





#50

Toluene-d8

Concen: 33.591 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

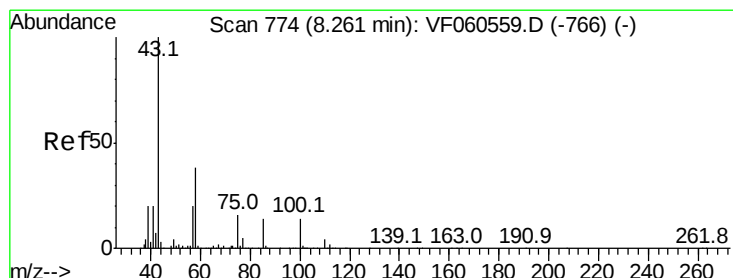
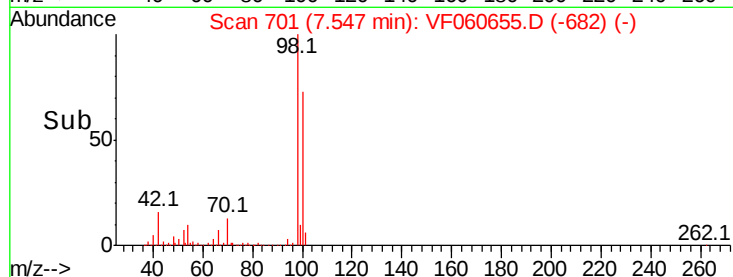
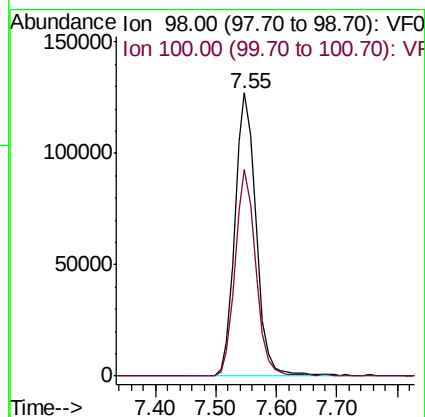
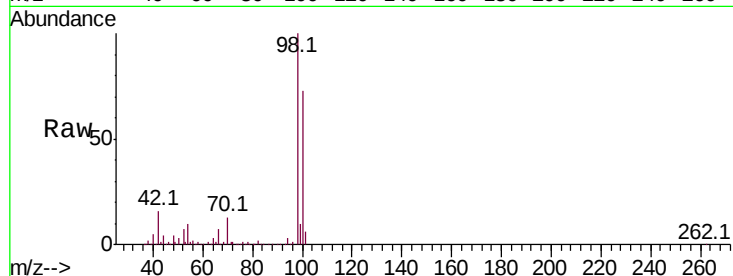
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 98 Resp: 309152

Ion Ratio Lower Upper

98 100

100 73.1 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 1.041 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.00 min

Lab File: VF060655.D

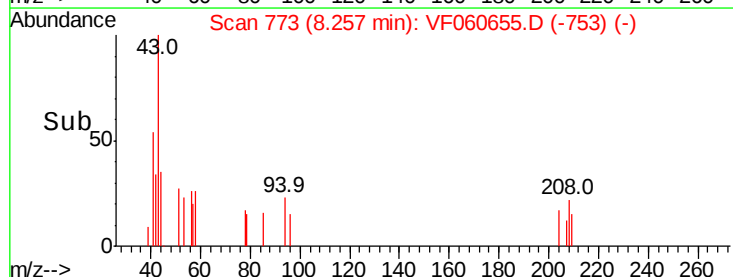
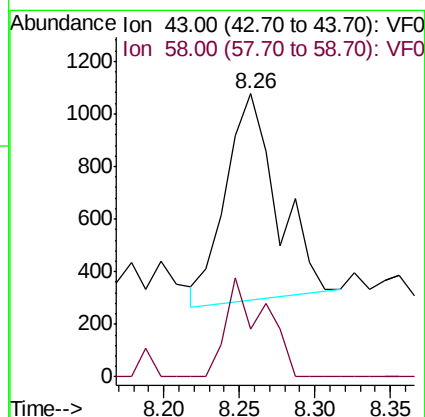
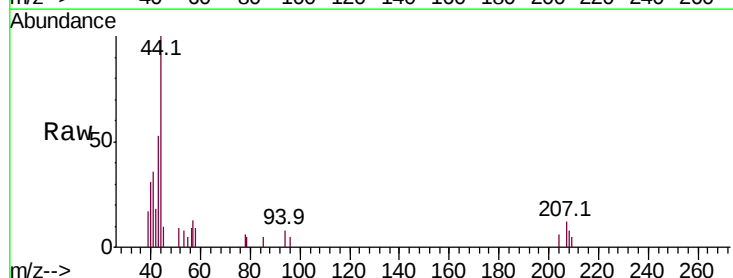
Acq: 8 Nov 2018 17:48

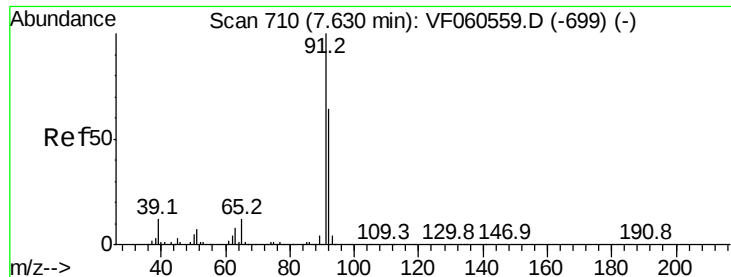
Tgt Ion: 43 Resp: 1882

Ion Ratio Lower Upper

43 100

58 16.7 30.1 45.1#





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.61 min Scan# 707

Delta R.T. -0.02 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

Instrument :

MSVOA_F

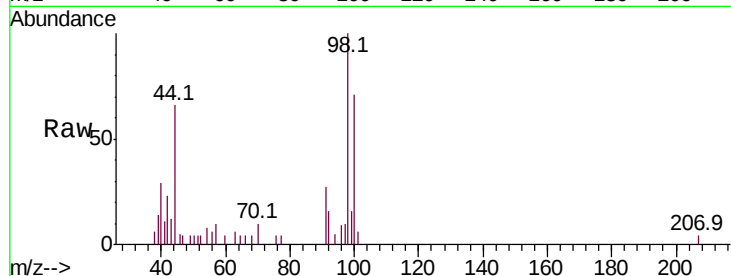
ClientSampleId :

Tot Ion: 63 Resp: 247

Ion Ratio Lower Upper

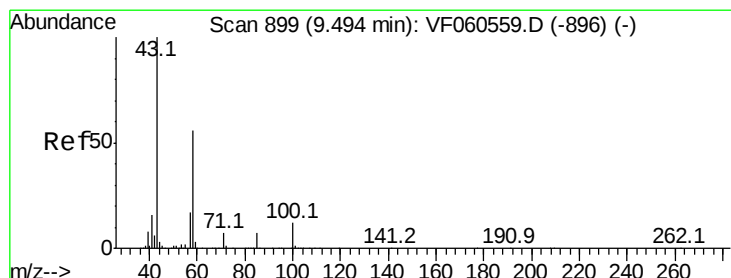
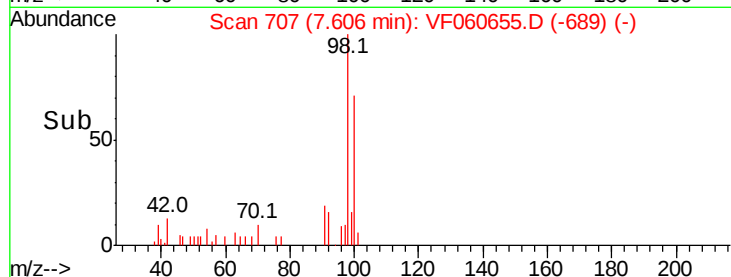
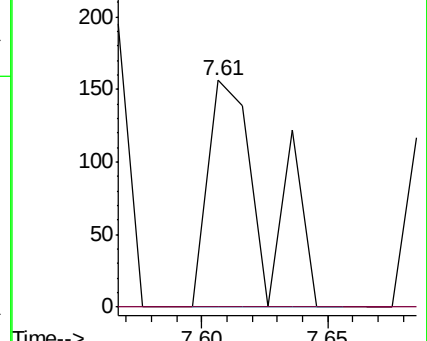
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: Below Cal

RT: 9.49 min Scan# 898

Delta R.T. -0.00 min

Lab File: VF060655.D

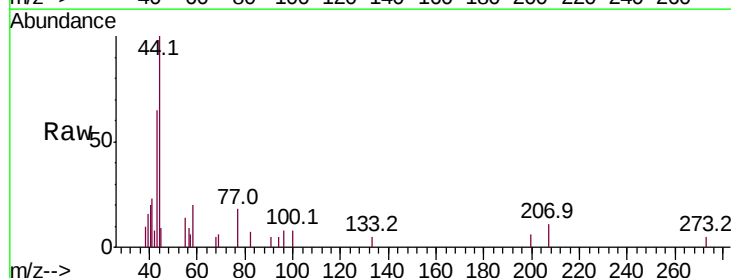
Acq: 8 Nov 2018 17:48

Tgt Ion: 43 Resp: 3194

Ion Ratio Lower Upper

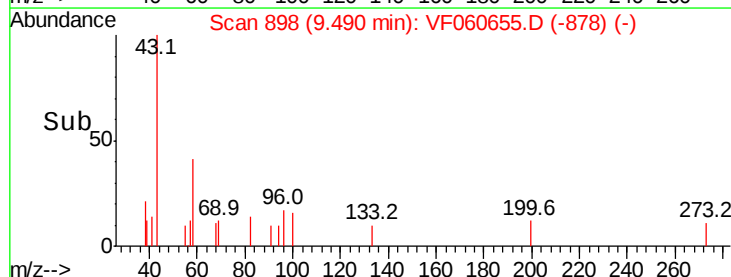
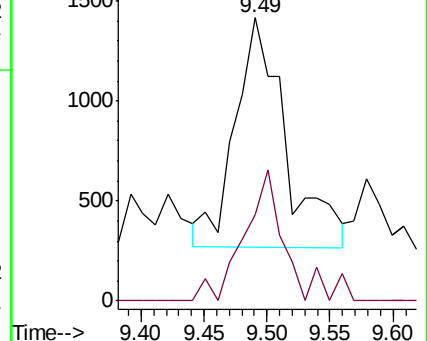
43 100

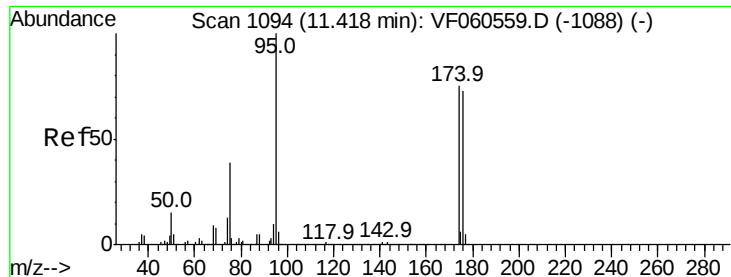
58 30.6 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 38.505 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

Instrument :

MSVOA_F

ClientSampled :

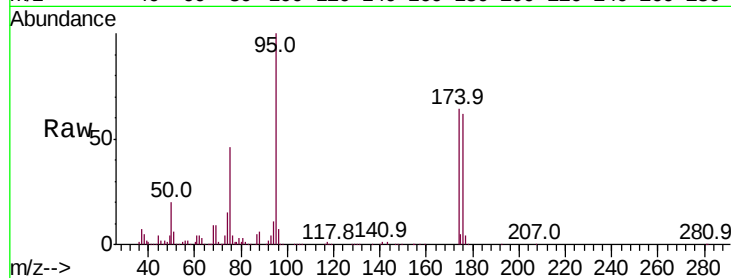
Tot Ion: 95 Resp: 155011

Ion Ratio Lower Upper

95 100

174 63.7 0.0 149.0

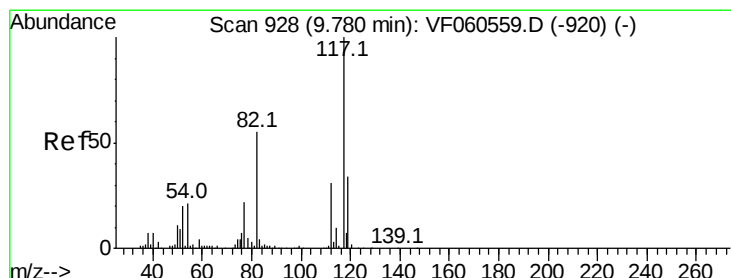
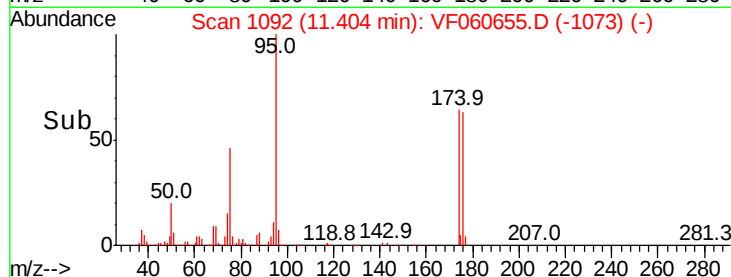
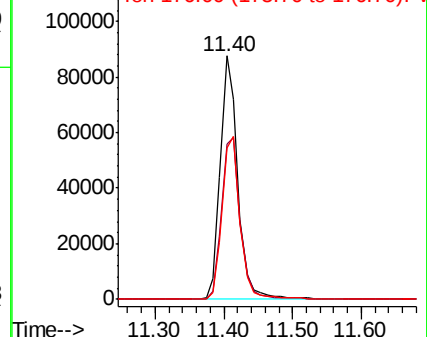
176 62.5 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF060655.D

Acq: 8 Nov 2018 17:48

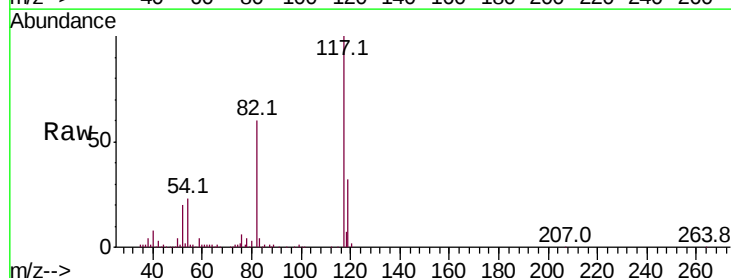
Tgt Ion: 117 Resp: 370175

Ion Ratio Lower Upper

117 100

82 60.1 43.9 65.9

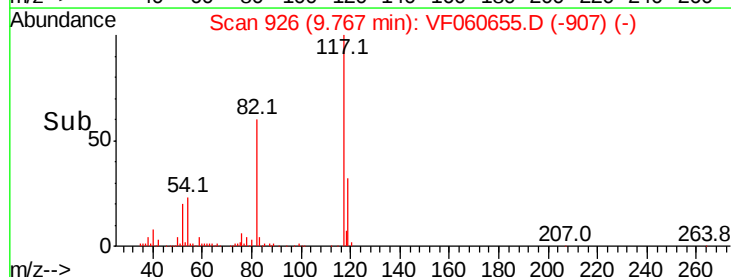
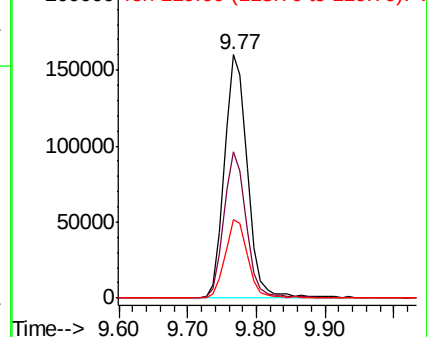
119 32.4 27.4 41.0

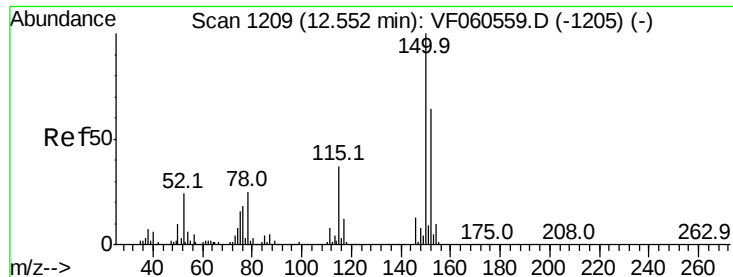


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



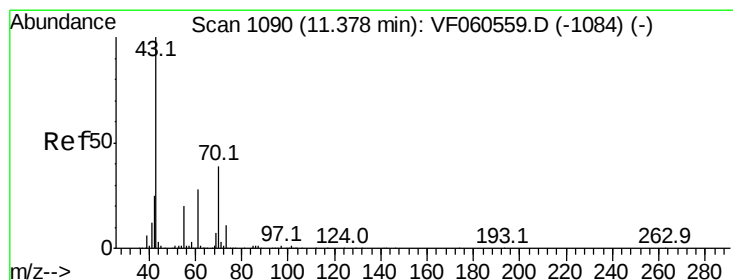
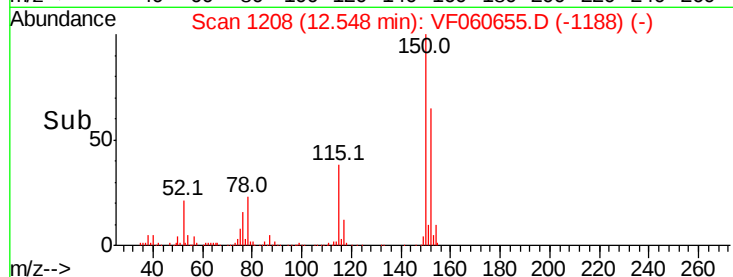
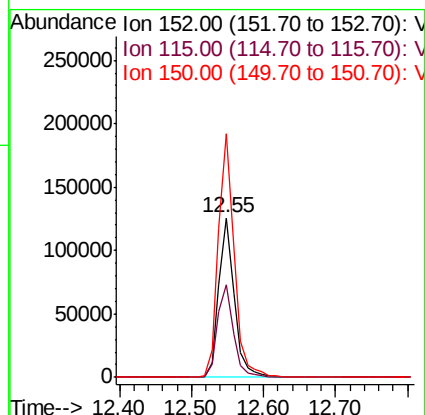
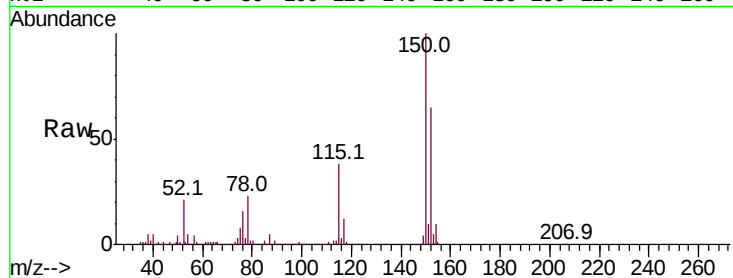


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF060655.D
Acq: 8 Nov 2018 17:48

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:152 Resp: 185904
Ion Ratio Lower Upper
152 100
115 58.4 29.6 88.8
150 152.7 0.0 315.6



#74

N-ethyl acetate
Concen: Below Cal
RT: 11.39 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VF060655.D
Acq: 8 Nov 2018 17:48

Tgt Ion: 43 Resp: 2498
Ion Ratio Lower Upper
43 100
70 95.4 30.9 46.3#
55 31.4 16.6 24.8#
61 350.3 22.0 33.0#

