

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110718\
 Data File : VF060632.D
 Acq On : 7 Nov 2018 16:45
 Operator : VA/AP
 Sample : J5819-08
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 07 16:16:48 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	4.87	168	71992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	90538	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	52612	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	15025	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	11177	15.37	ug/l	-0.02
Spiked Amount			Recovery	=	30.74%	
35) Dibromofluoromethane	4.11	113	19934	28.50	ug/l	0.00
Spiked Amount			Recovery	=	57.00%	
50) Toluene-d8	7.56	98	86798	41.89	ug/l	0.00
Spiked Amount			Recovery	=	83.78%	
62) 4-Bromofluorobenzene	11.42	95	20031	22.10	ug/l	0.00
Spiked Amount			Recovery	=	44.20%	

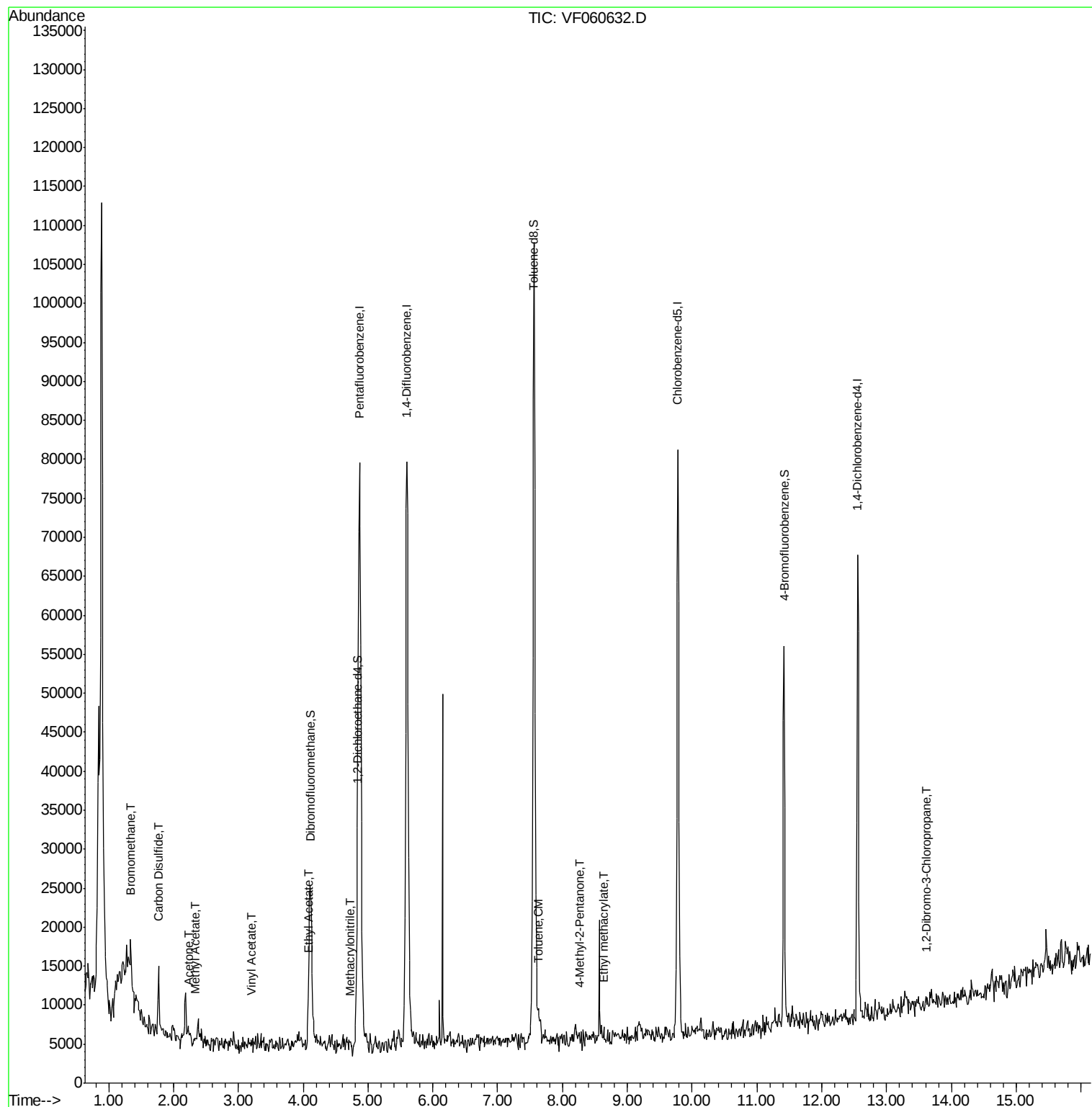
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.93	85	152	Below Cal	#	41
5) Bromomethane	1.34	94	660	2.025	ug/l #	45
6) Chloroethane	1.45	64	68	Below Cal	#	40
11) Tert butyl alcohol	2.46	59	72	Below Cal	#	1
13) Acrolein	2.00	56	361	Below Cal	#	20
16) Acetone	2.24	43	3181	18.559	ug/l	99
17) Carbon Disulfide	1.77	76	9763	6.627	ug/l	95
18) Methyl Acetate	2.33	43	1061	4.426	ug/l #	64
20) Methylene Chloride	2.18	84	2403	Below Cal		91
23) Vinyl Acetate	3.19	43	1183	1.088	ug/l #	75
25) 2-Butanone	4.31	43	1564	Below Cal	#	56
29) Tetrahydrofuran	4.12	42	1342	Below Cal	#	55
37) Ethyl Acetate	4.07	43	1542	3.222	ug/l #	17
41) Methacrylonitrile	4.74	41	800	2.952	ug/l #	26
51) 4-Methyl-2-Pentanone	8.26	43	699	1.717	ug/l #	37
52) Toluene	7.64	92	1812	1.150	ug/l #	66
56) Ethyl methacrylate	8.64	69	664	1.125	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.60	63	224	Below Cal		100
59) 2-Hexanone	9.49	43	1091	Below Cal	#	26
74) N-amyl acetate	11.39	43	441	Below Cal	#	64
89) n-Butylbenzene	12.85	91	256	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	13.60	75	75	2.018	ug/l #	1

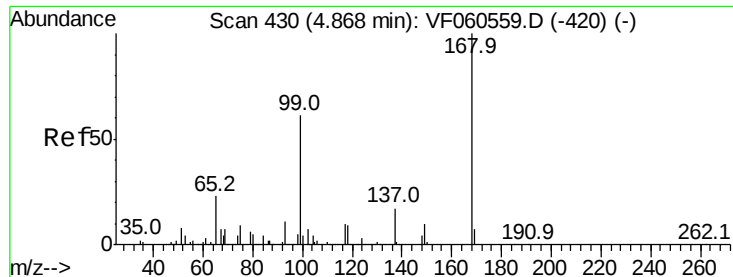
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

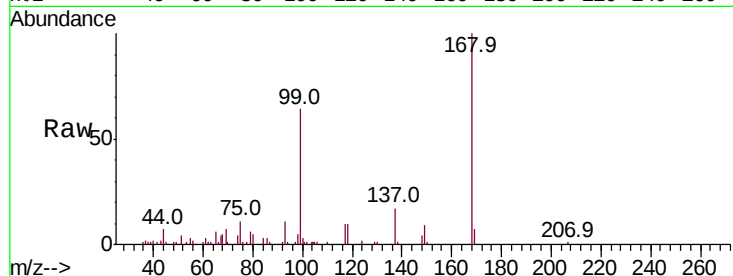
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 71992

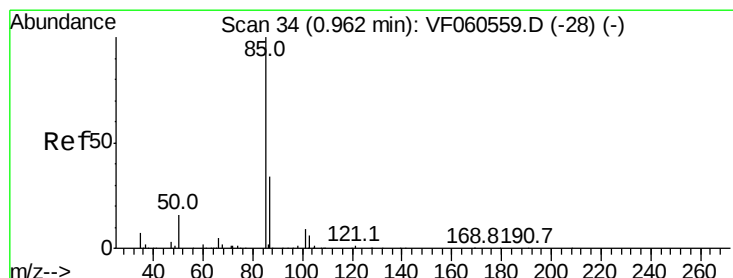
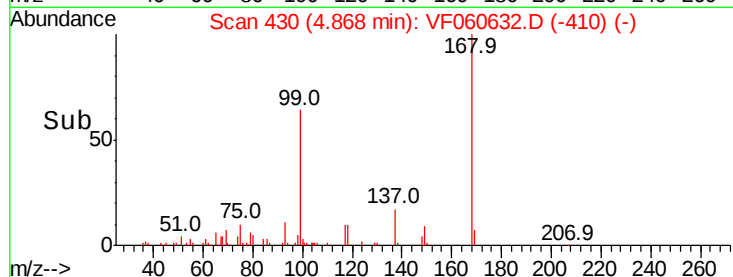
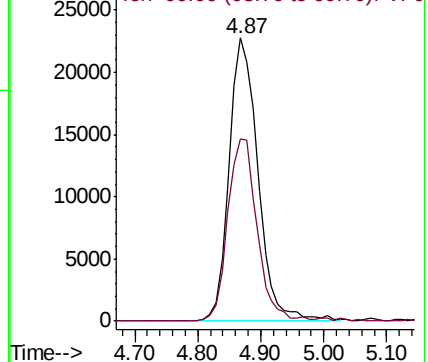
Ion Ratio Lower Upper

168 100

99 64.2 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.93 min Scan# 31

Delta R.T. -0.03 min

Lab File: VF060632.D

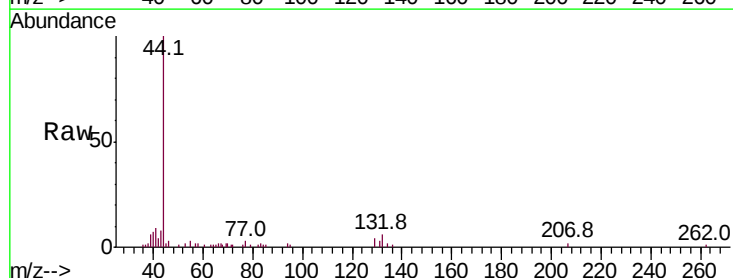
Acq: 7 Nov 2018 16:45

Tgt Ion: 85 Resp: 152

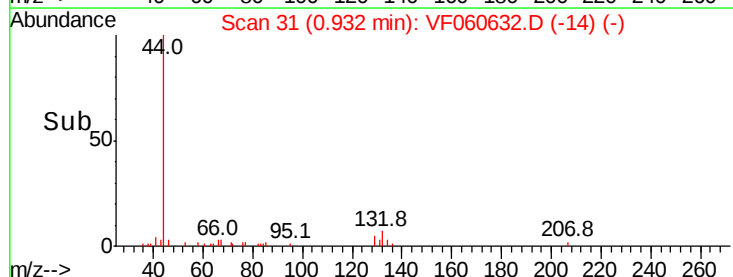
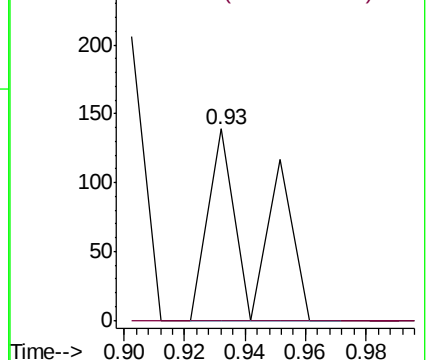
Ion Ratio Lower Upper

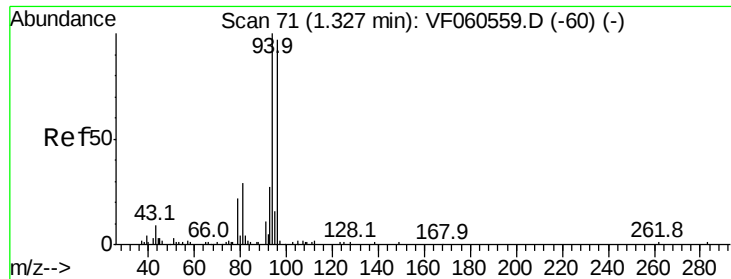
85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#5

Bromomethane

Concen: 2.025 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

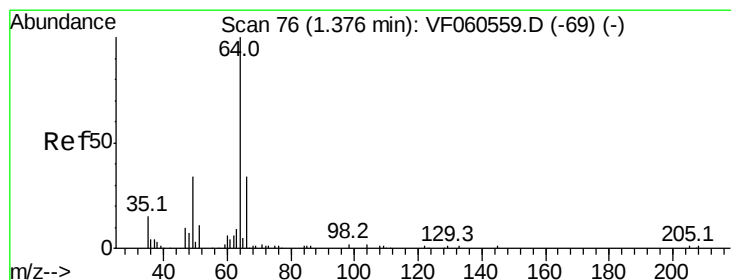
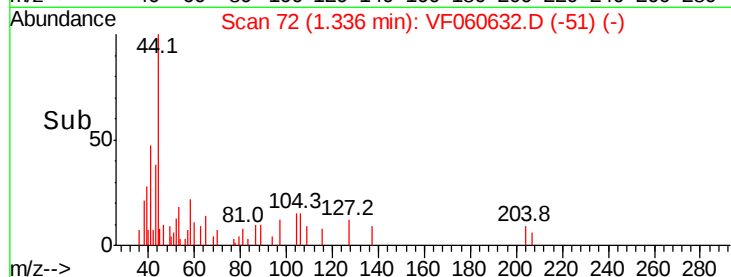
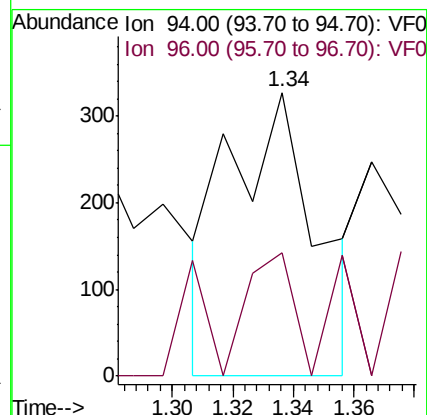
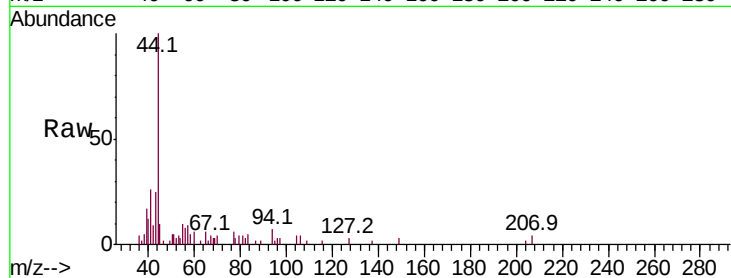
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 660

Ion Ratio Lower Upper

94 100

96 43.4 77.9 116.9#



#6

Chloroethane

Concen: Below Cal

RT: 1.45 min Scan# 84

Delta R.T. 0.08 min

Lab File: VF060632.D

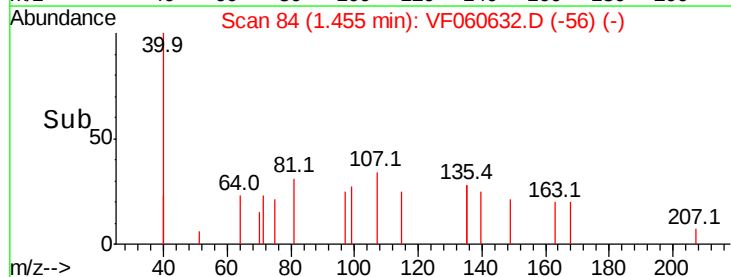
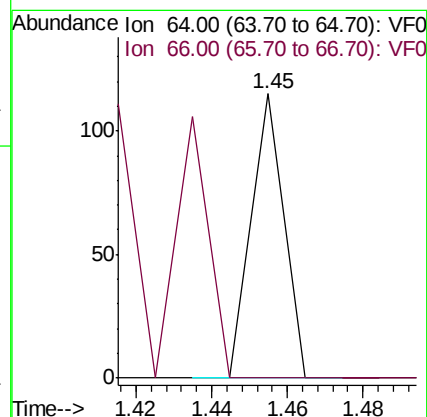
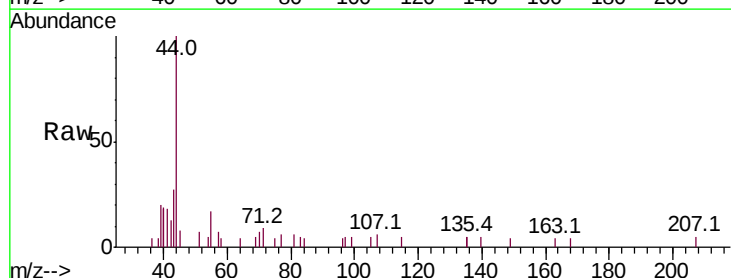
Acq: 7 Nov 2018 16:45

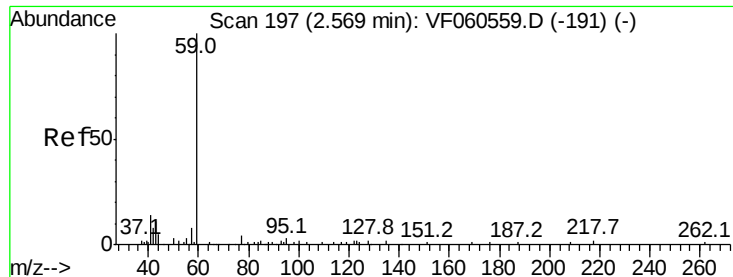
Tgt Ion: 64 Resp: 68

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



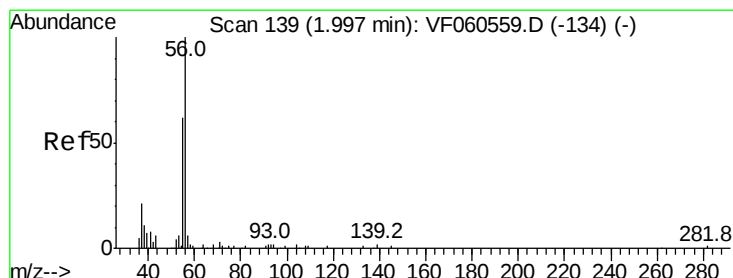
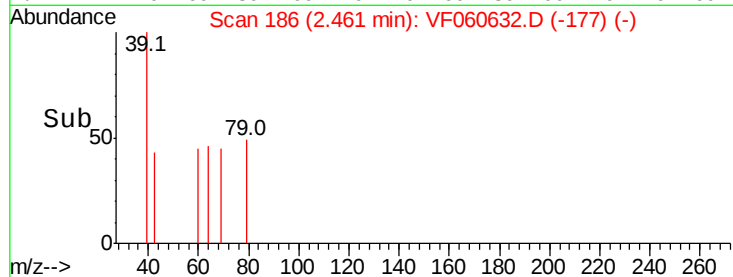
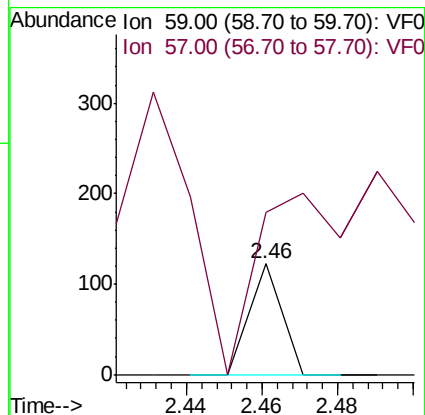
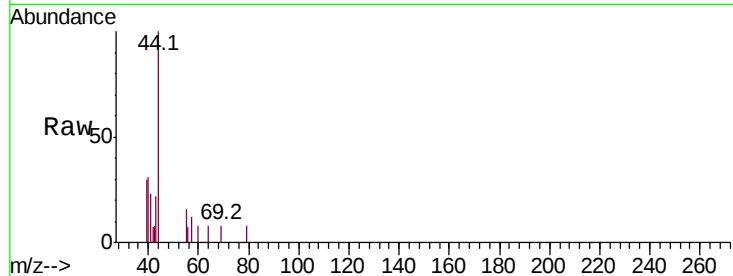


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.46 min Scan# 186
 Delta R.T. -0.11 min
 Lab File: VF060632.D
 Acq: 7 Nov 2018 16:45

Instrument :
 MSVOA_F
 ClientSampled :

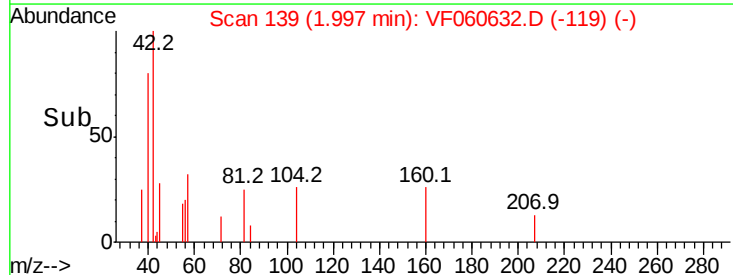
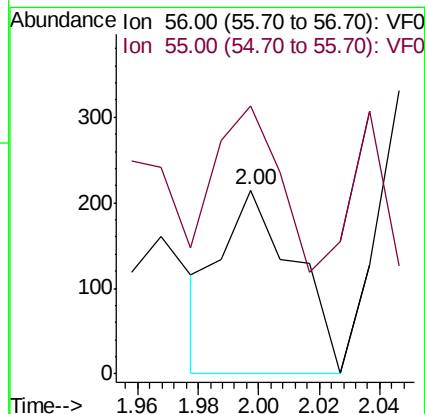
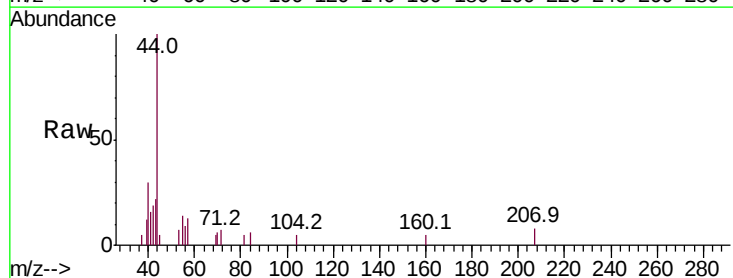
Tot Ion: 59 Resp: 72
 Ion Ratio Lower Upper
 59 100
 57 146.7 19.0 28.4#

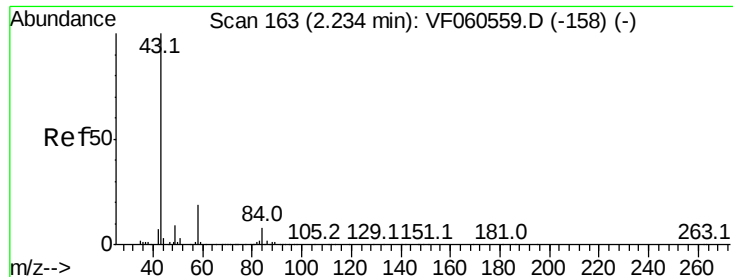


#13

Acrolein
 Concen: Below Cal
 RT: 2.00 min Scan# 139
 Delta R.T. 0.00 min
 Lab File: VF060632.D
 Acq: 7 Nov 2018 16:45

Tgt Ion: 56 Resp: 361
 Ion Ratio Lower Upper
 56 100
 55 146.0 61.8 92.6#





#16

Acetone

Concen: 18.559 ug/l

RT: 2.24 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

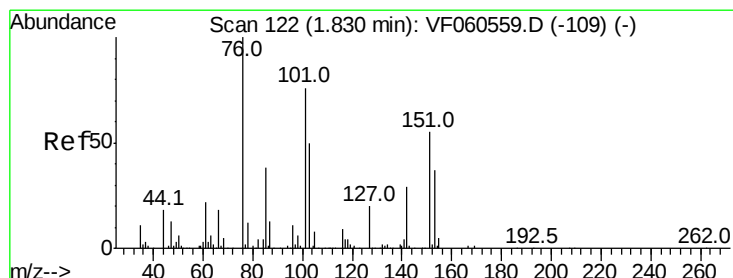
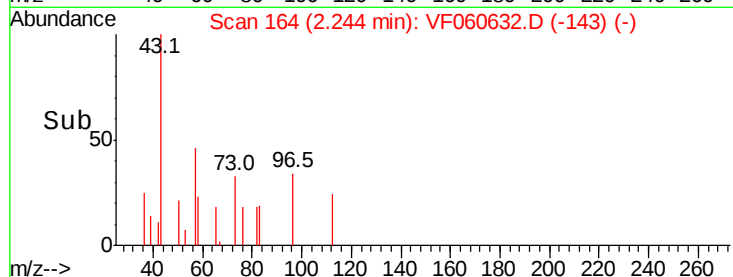
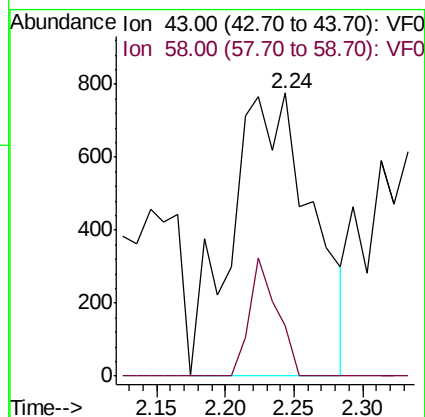
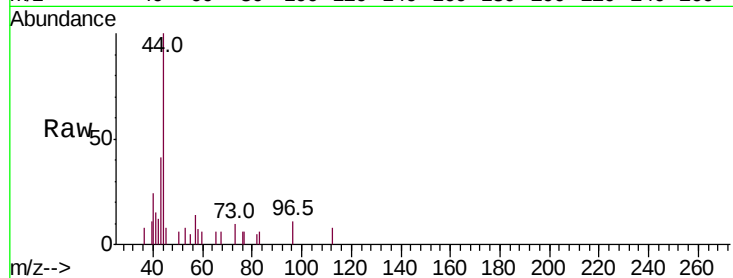
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 3181

Ion Ratio Lower Upper

43 100

58 17.7 14.6 22.0



#17

Carbon Disulfide

Concen: 6.627 ug/l

RT: 1.77 min Scan# 116

Delta R.T. -0.06 min

Lab File: VF060632.D

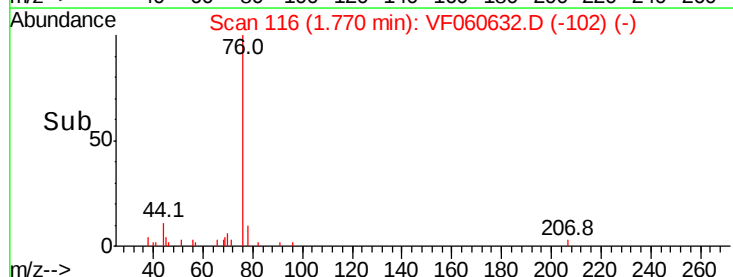
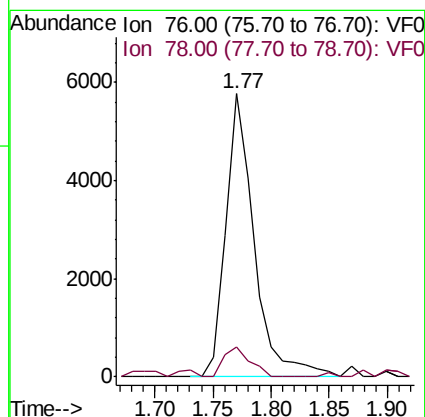
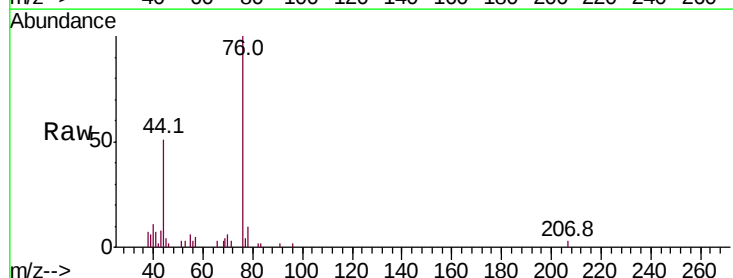
Acq: 7 Nov 2018 16:45

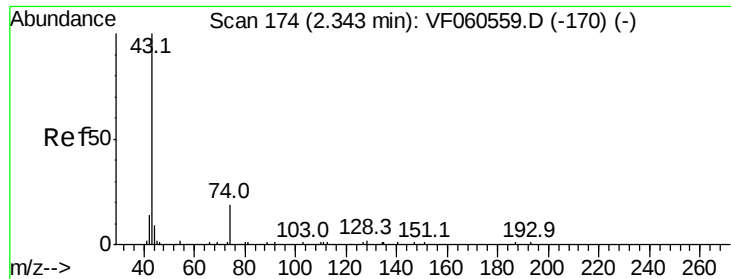
Tgt Ion: 76 Resp: 9763

Ion Ratio Lower Upper

76 100

78 10.4 9.9 14.9

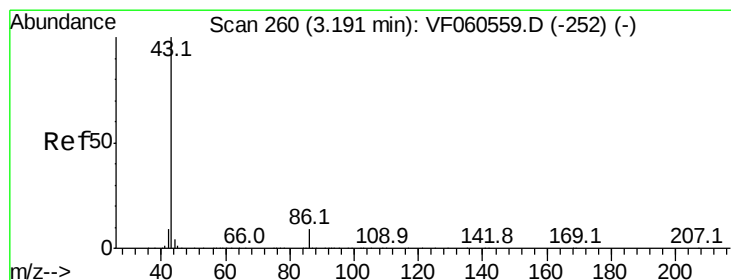
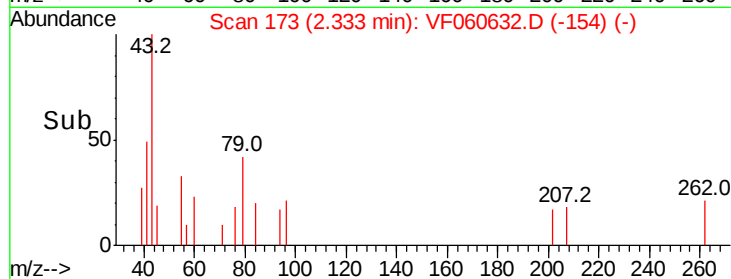
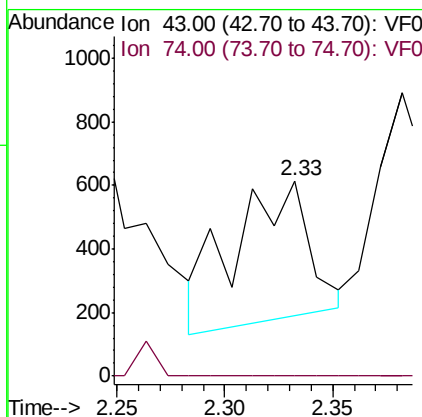
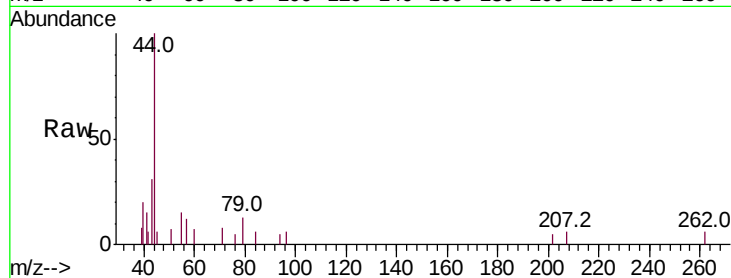




#18
Methvl Acetate
Concen: 4.426 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

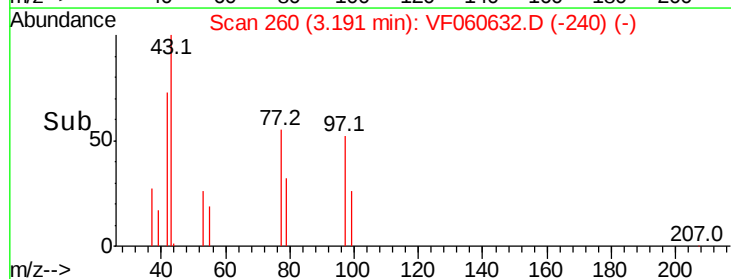
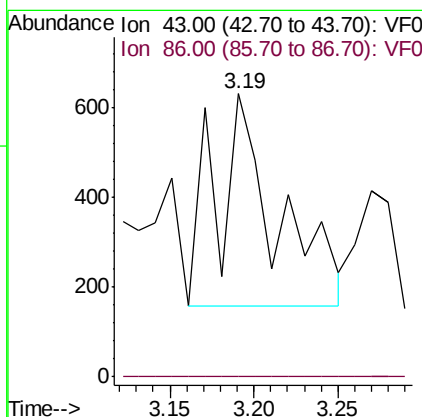
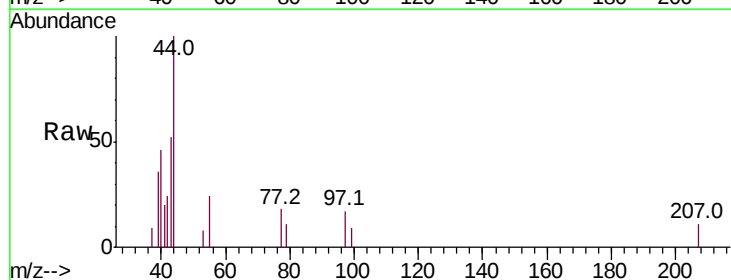
Instrument :
MSVOA_F
ClientSampleId :

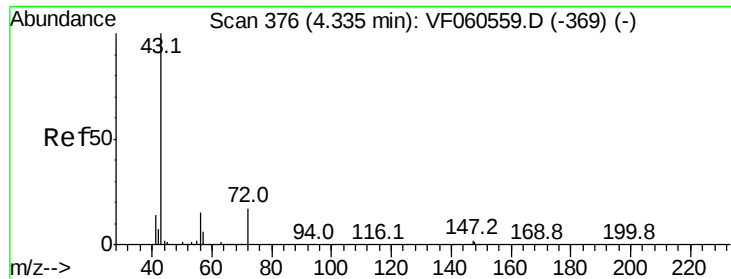
Tot Ion: 43 Resp: 1061
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#23
Vinyl Acetate
Concen: 1.088 ug/l
RT: 3.19 min Scan# 260
Delta R.T. -0.00 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

Tgt Ion: 43 Resp: 1183
Ion Ratio Lower Upper
43 100
86 0.0 7.1 10.7#





#25

2-Butanone

Concen: Below Cal

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

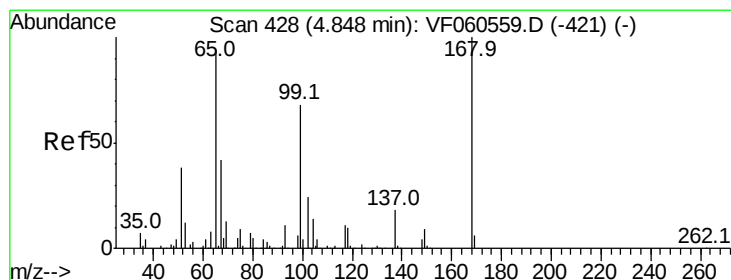
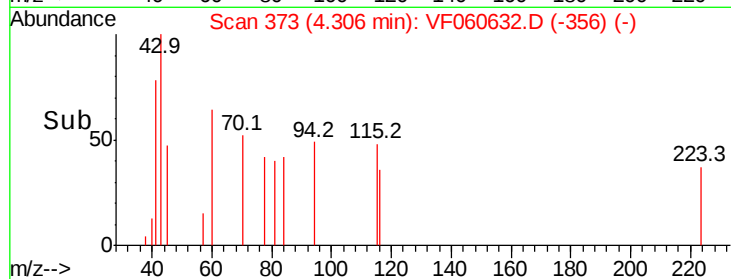
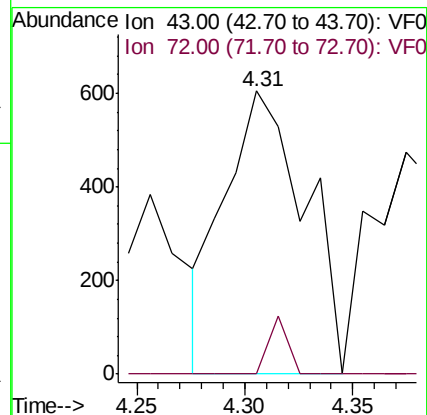
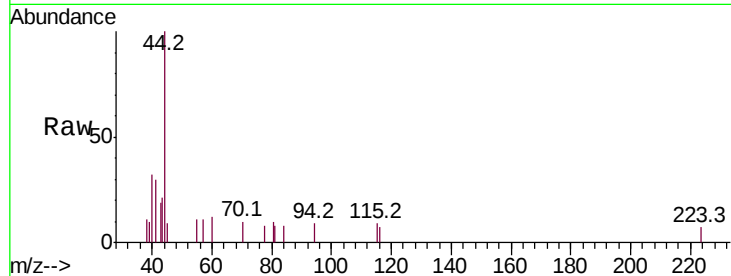
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1564

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#33

1,2-Dichloroethane-d4

Concen: 15.366 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060632.D

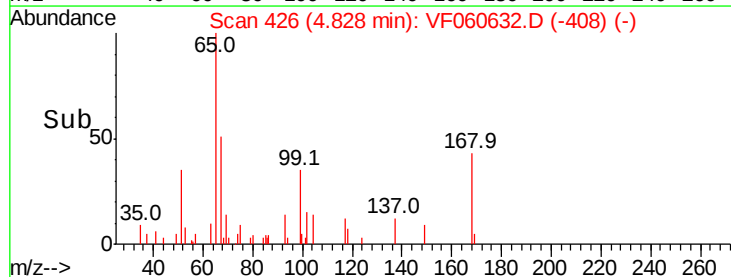
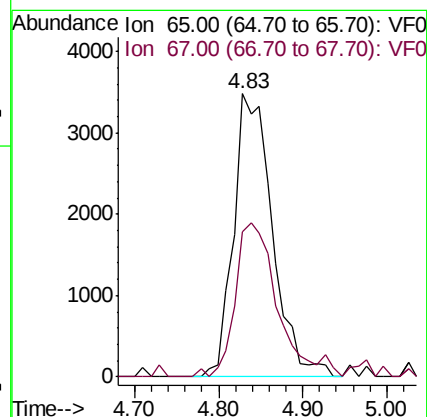
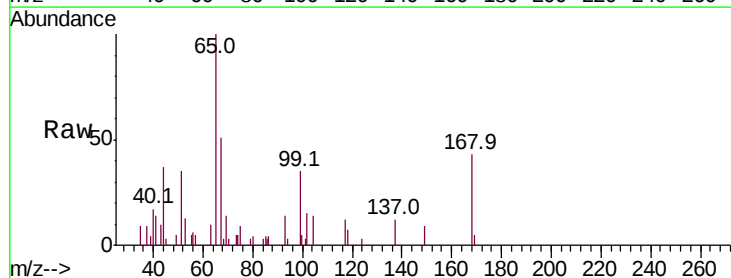
Acq: 7 Nov 2018 16:45

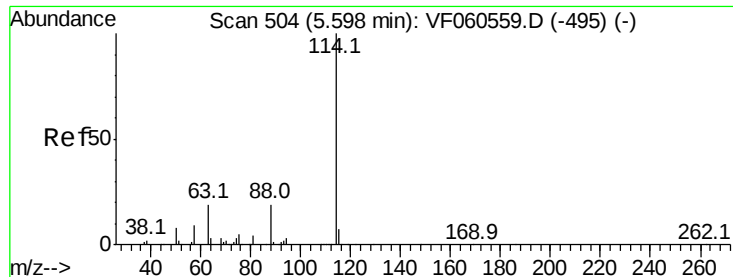
Tgt Ion: 65 Resp: 11177

Ion Ratio Lower Upper

65 100

67 51.3 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.00 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

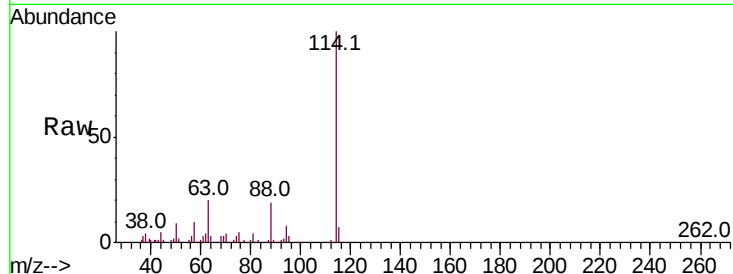
Tot Ion:114 Resp: 90538

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.0

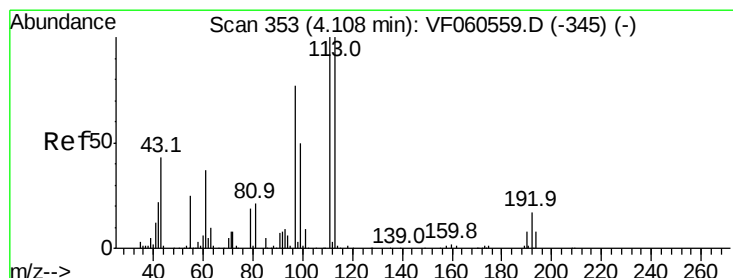
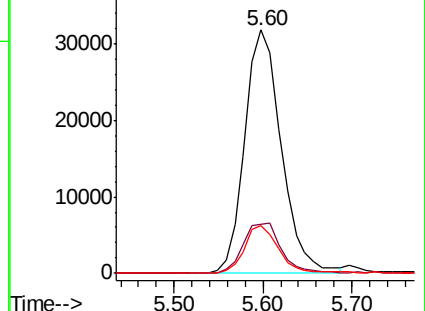
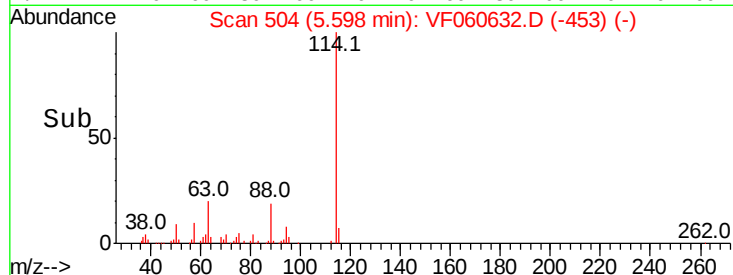
88 19.4 0.0 38.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 28.498 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

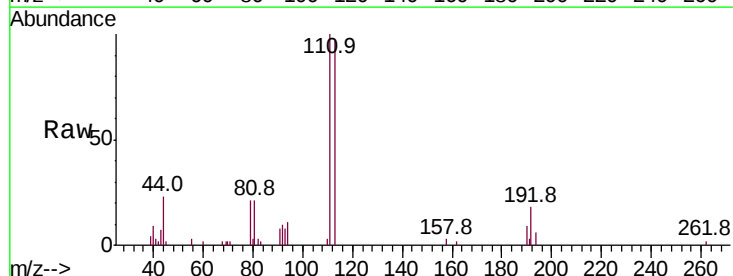
Tgt Ion:113 Resp: 19934

Ion Ratio Lower Upper

113 100

111 103.0 79.9 119.9

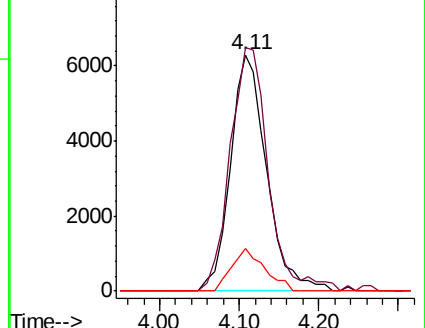
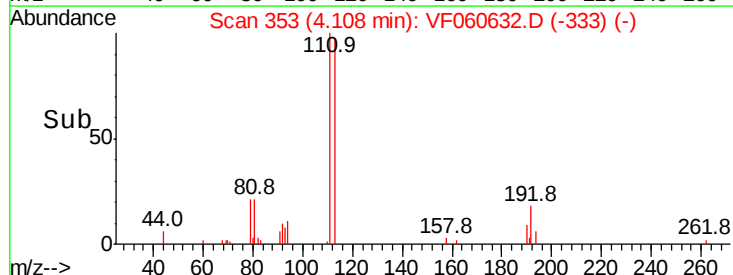
192 18.2 13.3 19.9

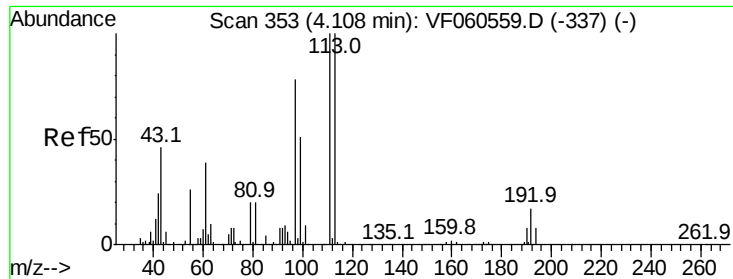


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

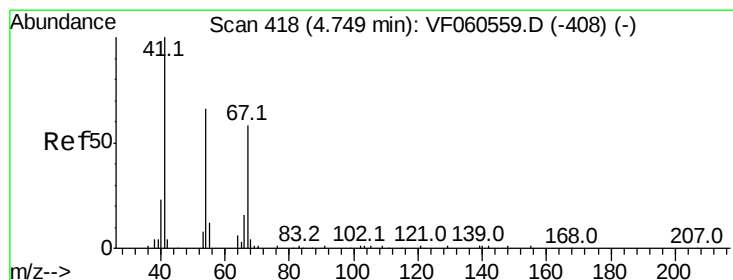
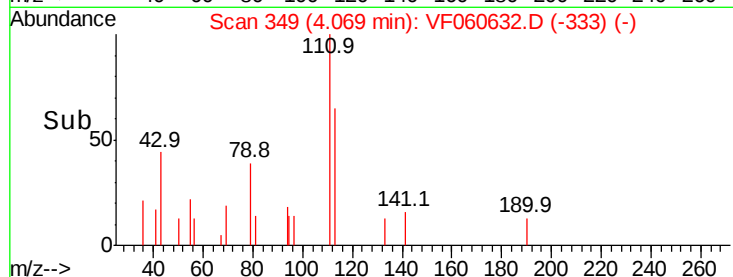
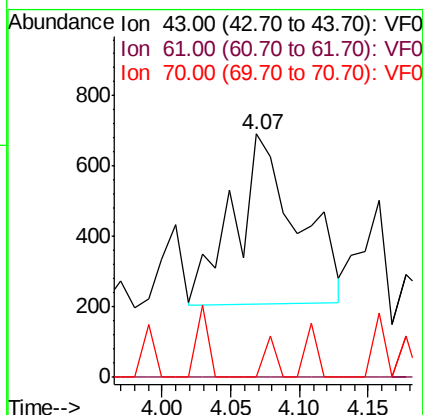
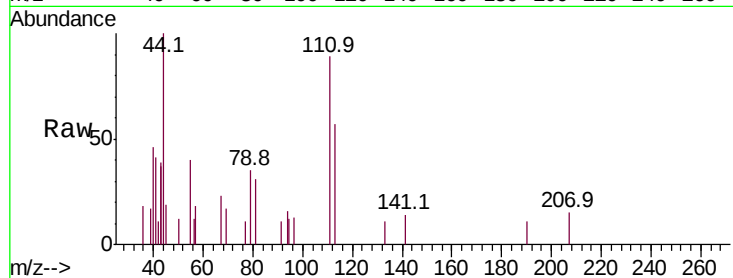




#37
Ethyl Acetate
Concen: 3.222 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.04 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

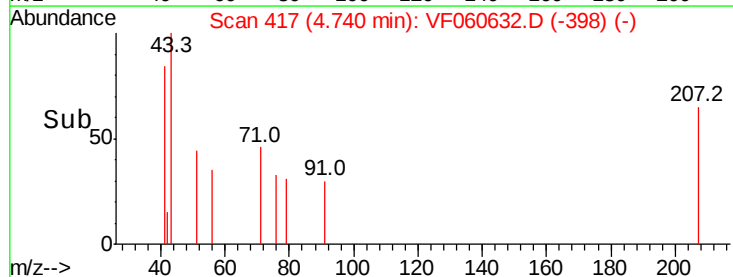
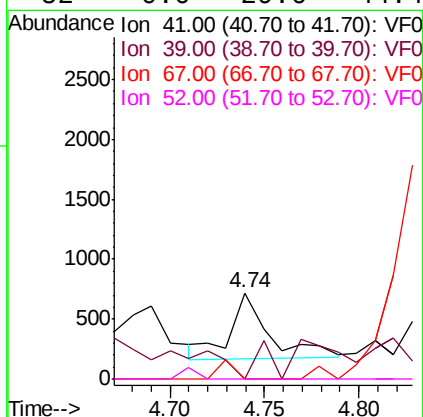
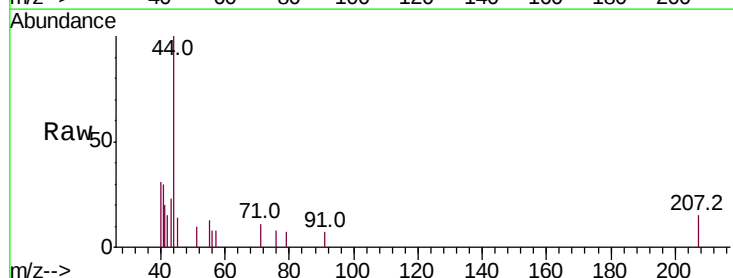
Instrument :
MSVOA_F
ClientSampled :

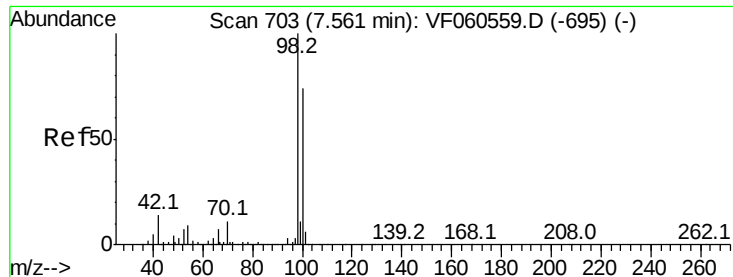
Tot Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
61 0.0 63.4 95.2#
70 0.0 9.3 13.9#



#41
Methacrylonitrile
Concen: 2.952 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

Tgt Ion: 41 Resp: 800
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
67 0.0 45.3 67.9#
52 0.0 29.6 44.4#





#50

Toluene-d8

Concen: 41.889 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

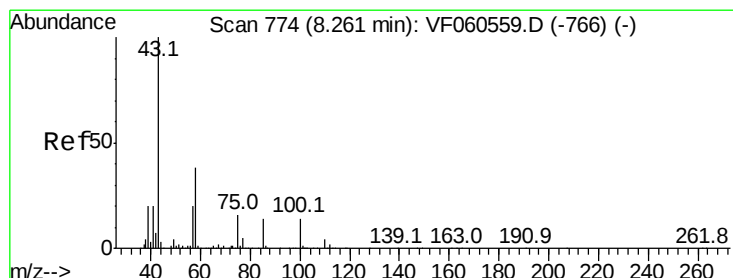
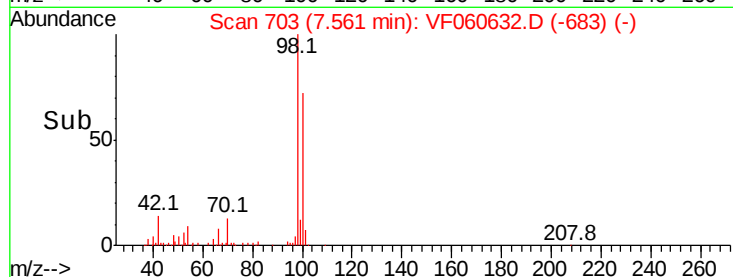
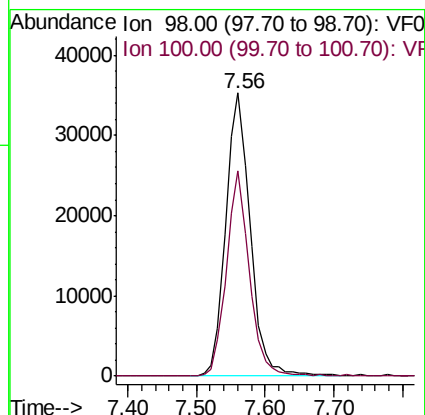
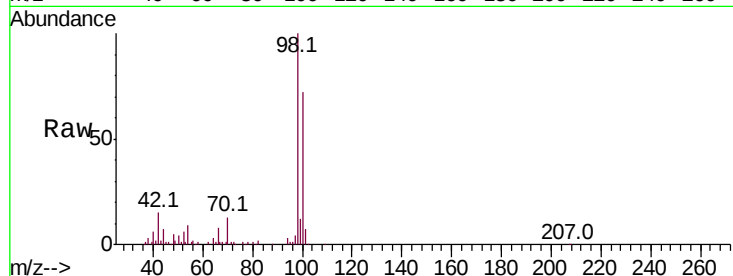
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 86798

Ion Ratio Lower Upper

98 100

100 72.4 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 1.717 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF060632.D

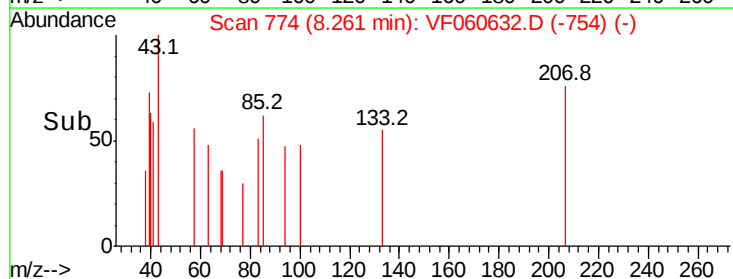
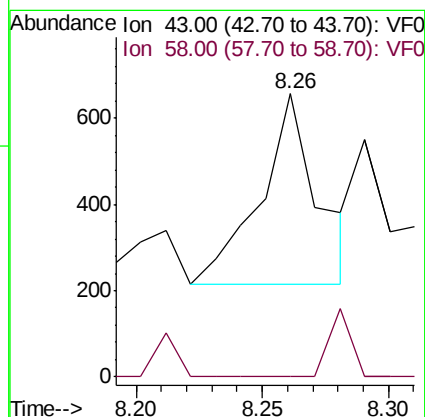
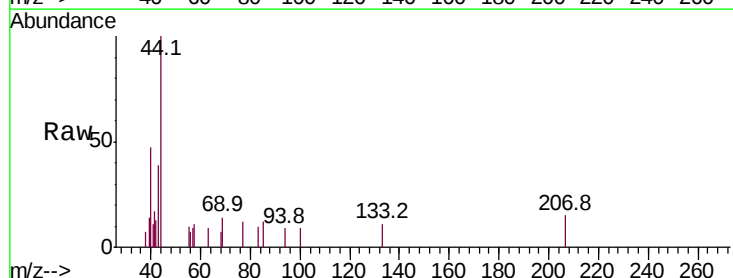
Acq: 7 Nov 2018 16:45

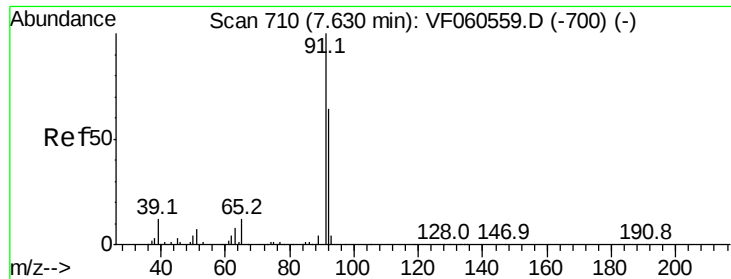
Tgt Ion: 43 Resp: 699

Ion Ratio Lower Upper

43 100

58 0.0 30.1 45.1#





#52

Toluene

Concen: 1.150 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

Instrument :

MSVOA_F

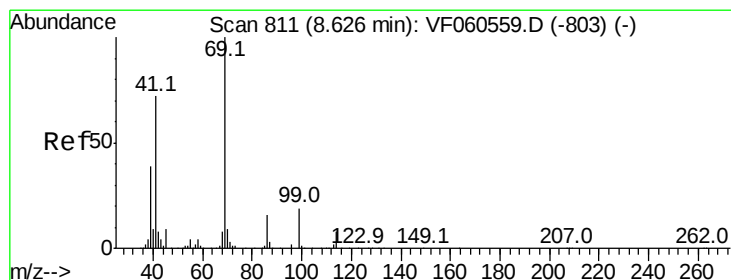
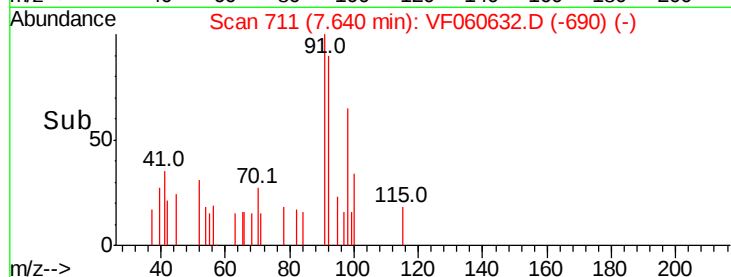
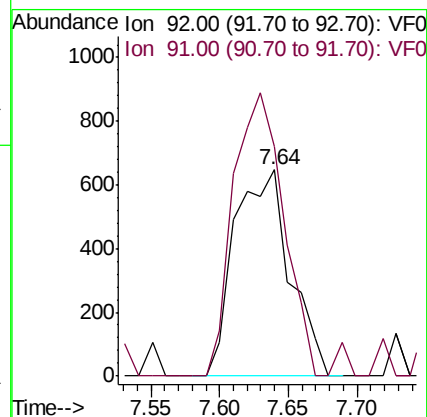
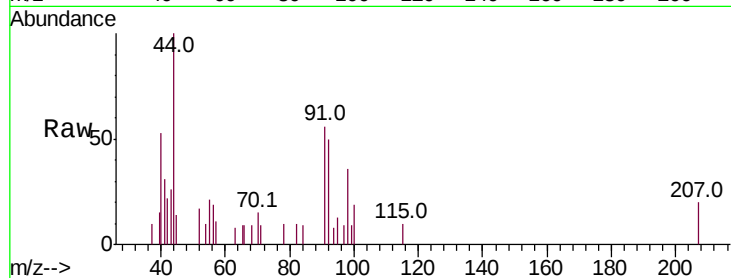
ClientSampled :

Tot Ion: 92 Resp: 1812

Ion Ratio Lower Upper

92 100

91 111.4 124.5 186.7#



#56

Ethyl methacrylate

Concen: 1.125 ug/l

RT: 8.64 min Scan# 812

Delta R.T. 0.01 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

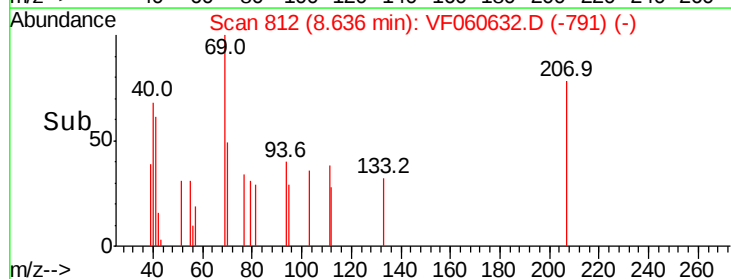
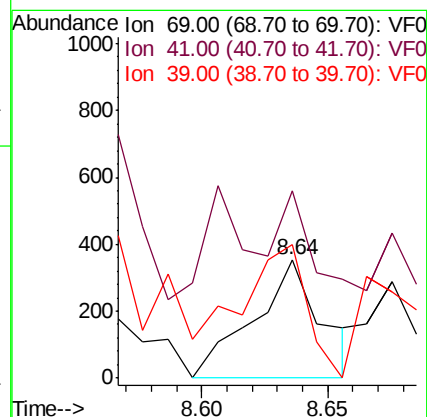
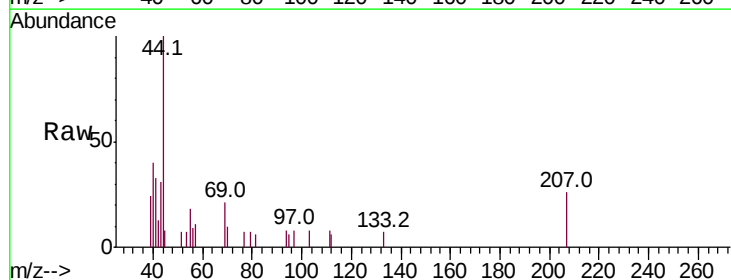
Tgt Ion: 69 Resp: 664

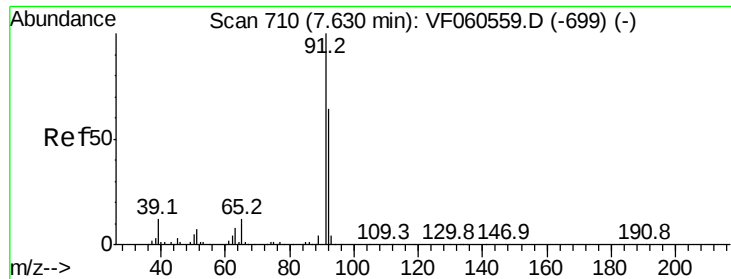
Ion Ratio Lower Upper

69 100

41 158.2 59.2 88.8#

39 112.4 32.3 48.5#

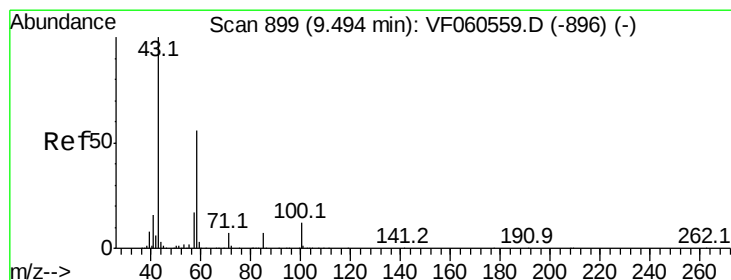
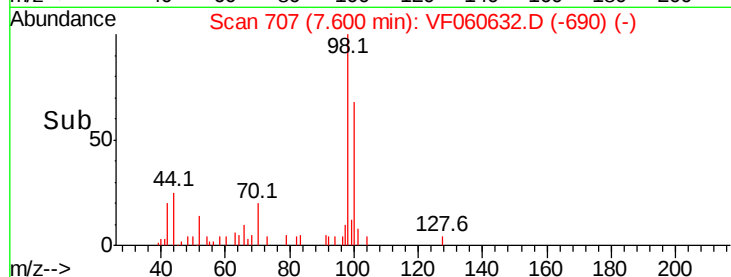
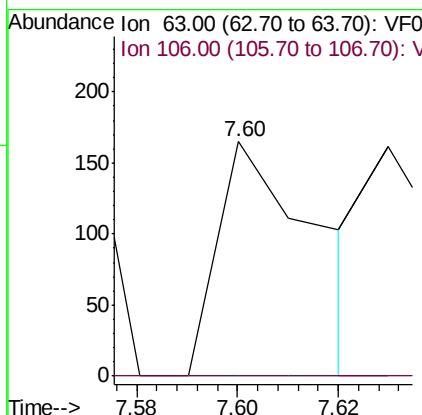
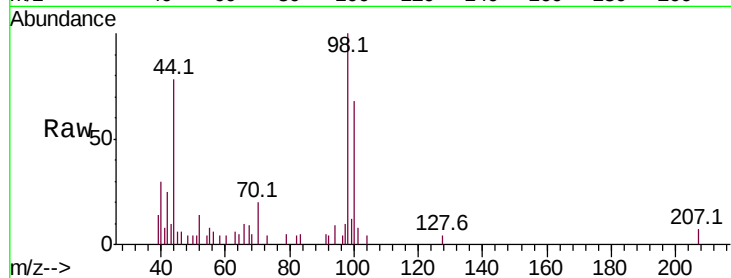




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 7.60 min Scan# 707
Delta R.T. -0.03 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

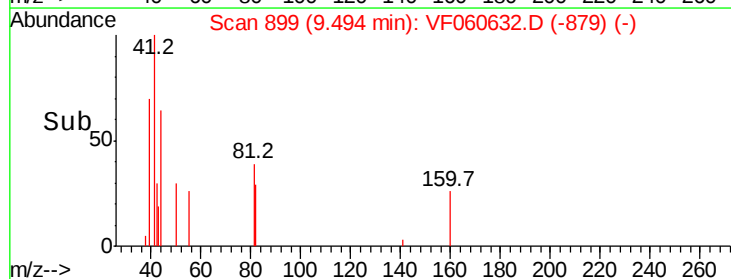
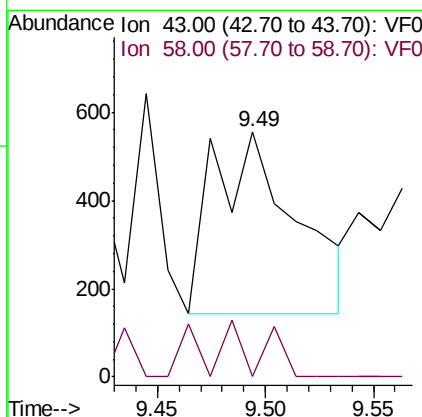
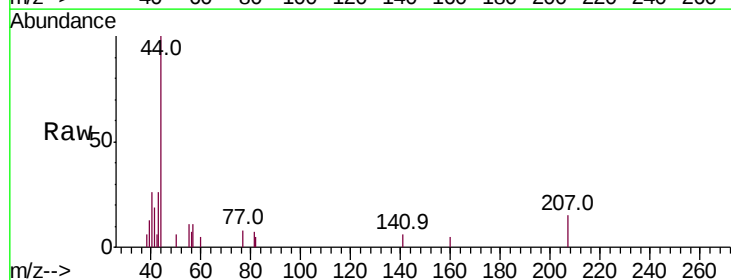
Instrument :
MSVOA_F
ClientSampled :

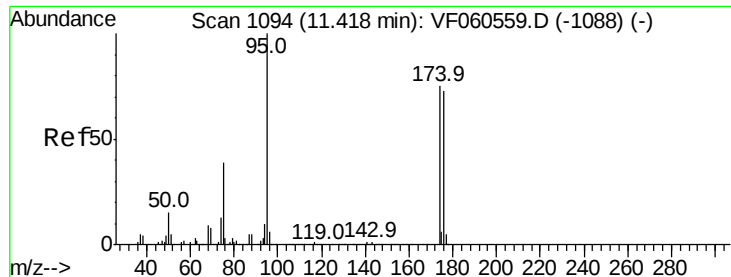
Tot Ion: 63 Resp: 224
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: Below Cal
RT: 9.49 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

Tgt Ion: 43 Resp: 1091
Ion Ratio Lower Upper
43 100
58 0.0 26.1 78.3#





#62

4-Bromofluorobenzene

Concen: 22.100 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

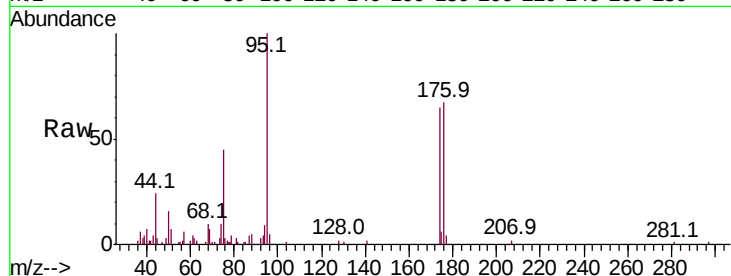
Tot Ion: 95 Resp: 20031

Ion Ratio Lower Upper

95 100

174 65.2 0.0 149.0

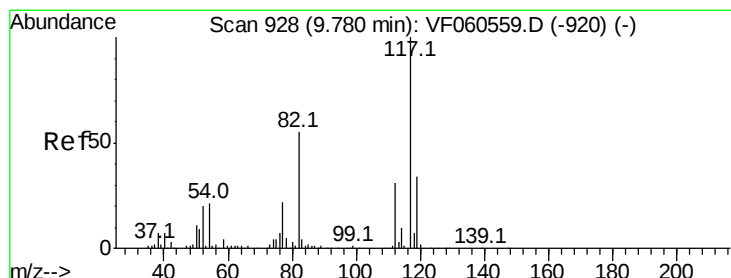
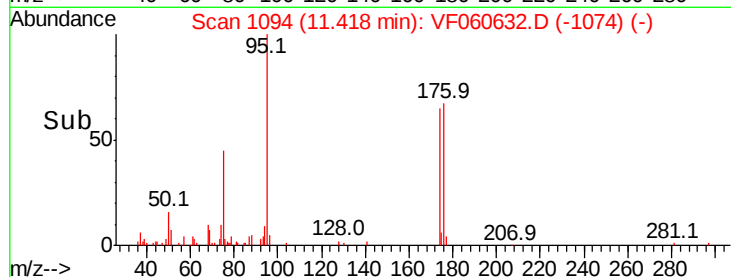
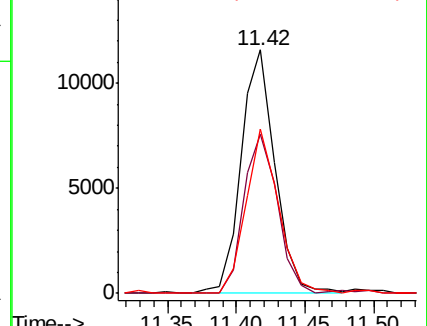
176 67.2 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.00 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

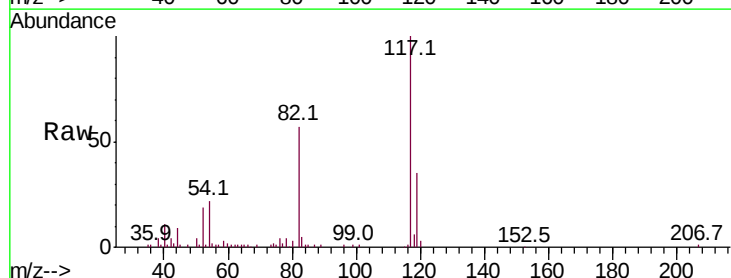
Tgt Ion: 117 Resp: 52612

Ion Ratio Lower Upper

117 100

82 57.0 43.9 65.9

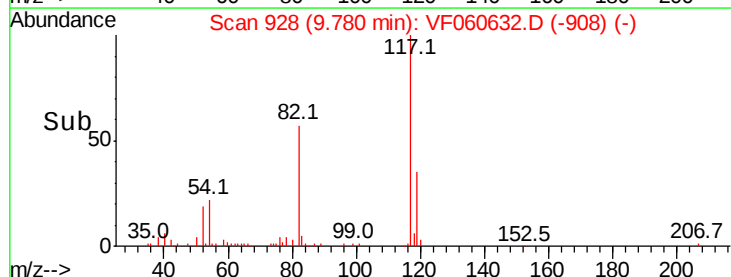
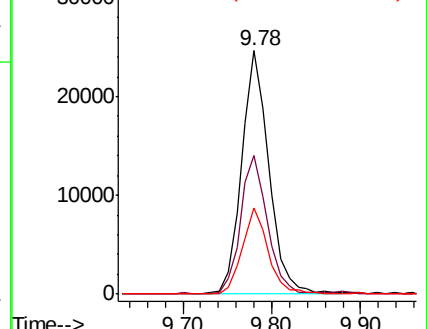
119 35.4 27.4 41.0

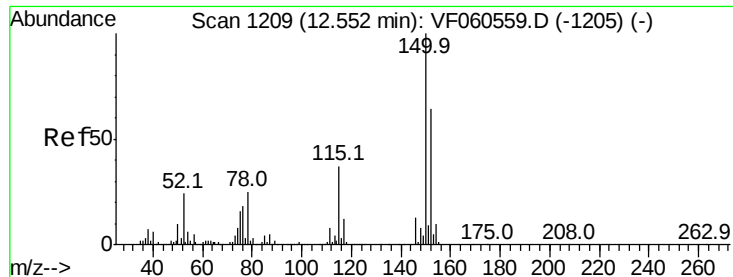


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



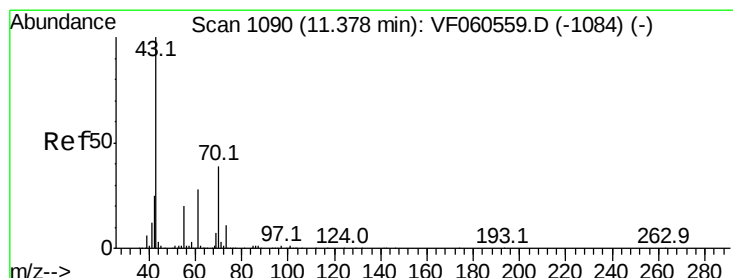
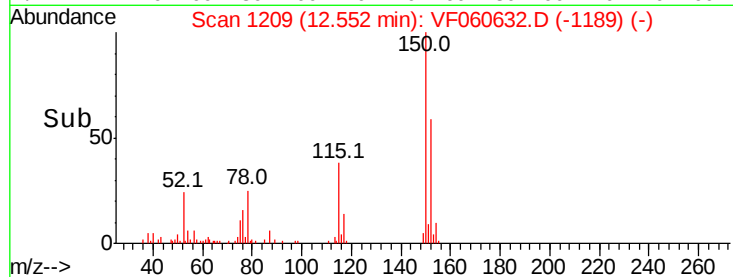
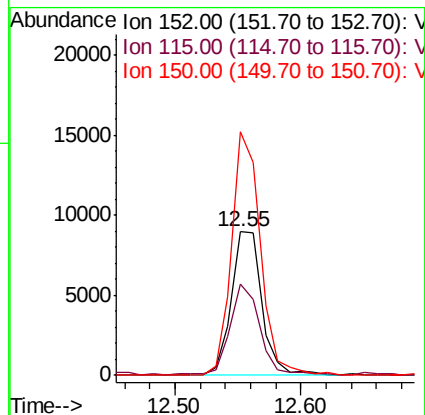
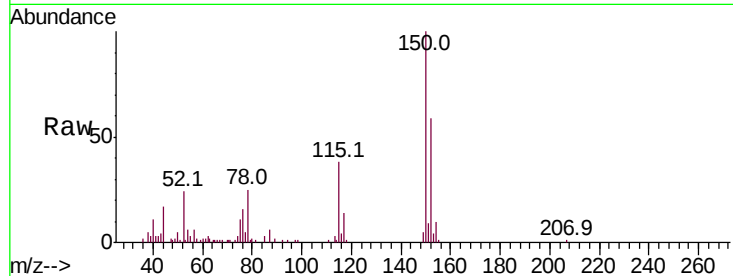


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

Instrument :
MSVOA_F
ClientSampleId :

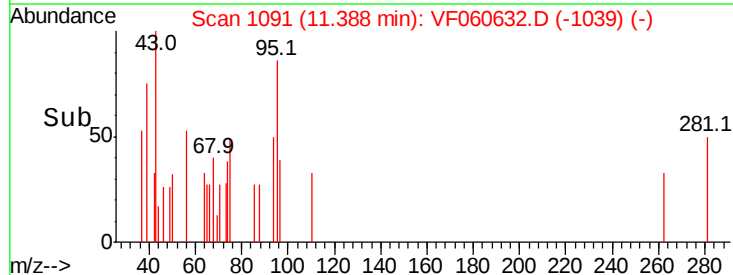
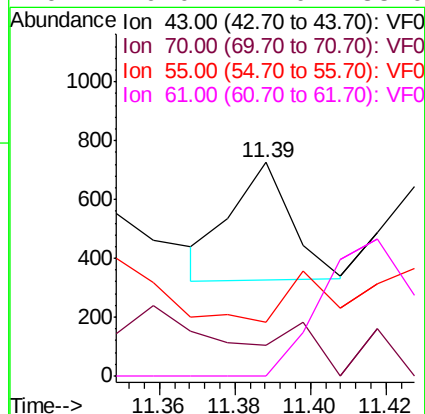
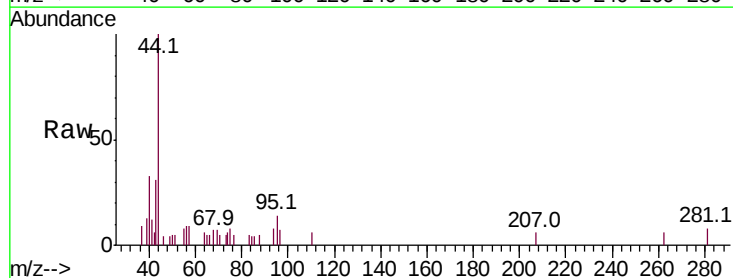
Tot Ion:152 Resp: 15025
Ion Ratio Lower Upper
152 100
115 63.9 29.6 88.8
150 170.0 0.0 315.6

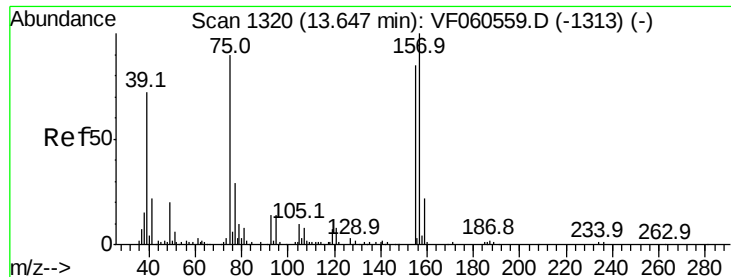


#74

N-ethyl acetate
Concen: Below Cal
RT: 11.39 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VF060632.D
Acq: 7 Nov 2018 16:45

Tgt Ion: 43 Resp: 441
Ion Ratio Lower Upper
43 100
70 14.6 30.9 46.3#
55 24.9 16.6 24.8#
61 0.0 22.0 33.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.018 ug/l

RT: 13.60 min Scan# 1315

Delta R.T. -0.05 min

Lab File: VF060632.D

Acq: 7 Nov 2018 16:45

Instrument :

MSVOA_F

ClientSampleId :

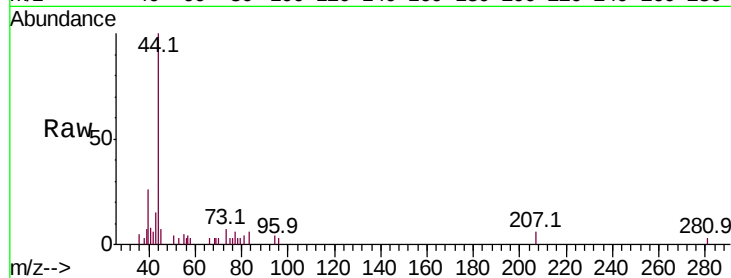
Tot Ion: 75 Resp: 75

Ion Ratio Lower Upper

75 100

155 0.0 47.3 141.8#

157 0.0 55.3 165.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

