

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050819\
 Data File : VF062376.D
 Acq On : 8 May 2019 14:44
 Operator : FY/SY
 Sample : K2673-03RE
 Misc : 5.05g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-12-2.0-2.5RE

Quant Time: May 09 05:00:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	276376	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	380449	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	253836	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	92586	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	143053	54.77	ug/l	0.00
Spiked Amount			Recovery	=	109.54%	
35) Dibromofluoromethane	4.30	113	158598	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
50) Toluene-d8	7.70	98	264941	36.11	ug/l	0.00
Spiked Amount			Recovery	=	72.22%	
62) 4-Bromofluorobenzene	11.48	95	98834	29.86	ug/l	0.00
Spiked Amount			Recovery	=	59.72%	

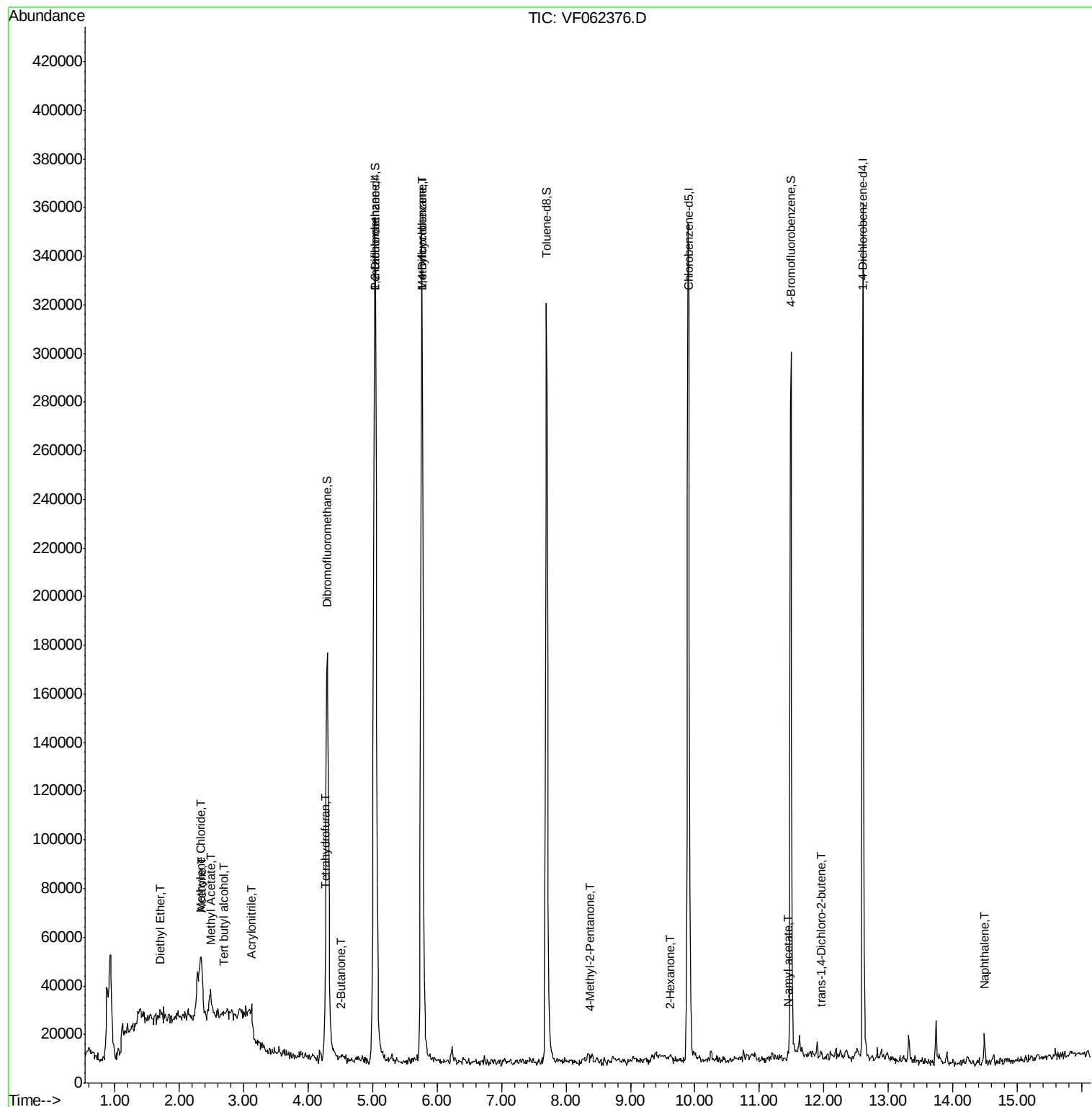
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.38	94	842	Below Cal	#	42
8) Diethyl Ether	1.71	74	1636	2.477	ug/l	96
11) Tert butyl alcohol	2.69	59	685	4.640	ug/l #	1
13) Acrolein	2.07	56	502	Below Cal		89
15) Acrylonitrile	3.11	53	1013	3.623	ug/l #	16
16) Acetone	2.35	43	5239	9.916	ug/l #	81
18) Methyl Acetate	2.48	43	4075	1.170	ug/l #	89
20) Methylene Chloride	2.32	84	22062	11.541	ug/l #	91
25) 2-Butanone	4.51	43	1101	1.659	ug/l	96
29) Tetrahydrofuran	4.26	42	1456	4.773	ug/l #	44
37) Ethyl Acetate	4.30	43	1220	Below Cal	#	98
38) Carbon Tetrachloride	4.21	117	64	Below Cal	#	70
39) Methylcyclohexane	5.76	83	5500	1.678	ug/l #	45
49) 1,4-Dioxane	6.85	88	82	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.39	43	2093	1.858	ug/l #	86
59) 2-Hexanone	9.63	43	3113	3.996	ug/l	83
74) N-amyl acetate	11.44	43	2111	1.791	ug/l #	65
81) trans-1,4-Dichloro-2-buten	11.94	75	416	1.688	ug/l #	5
95) Naphthalene	14.49	128	4194	1.221	ug/l #	94

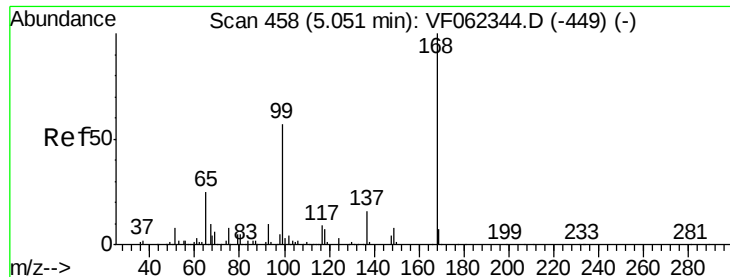
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

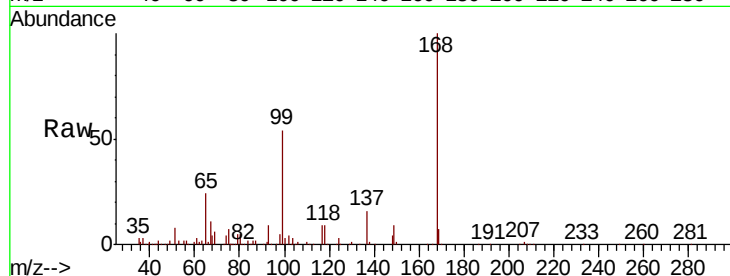
SB-12-2.0-2.5RE

Tot Ion:168 Resp: 276376

Ion Ratio Lower Upper

168 100

99 54.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.04

100000

80000

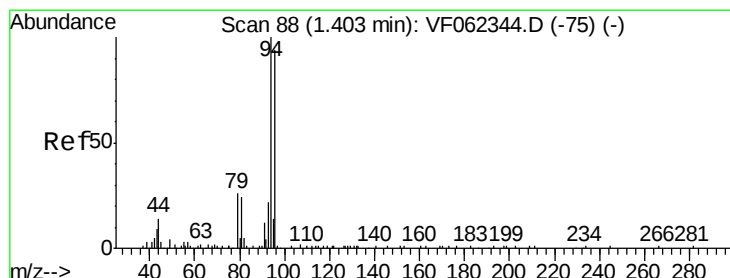
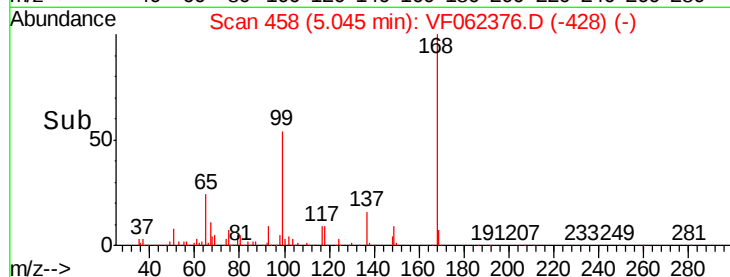
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.38 min Scan# 86

Delta R.T. -0.03 min

Lab File: VF062376.D

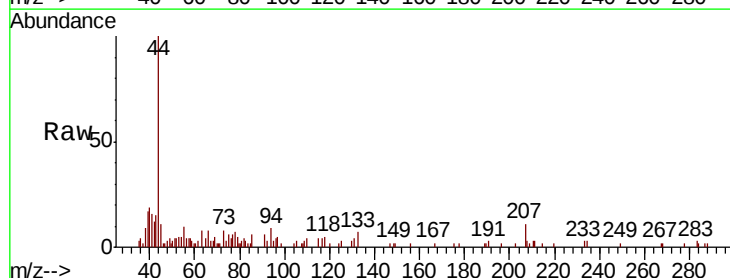
Acq: 8 May 2019 14:44

Tgt Ion: 94 Resp: 842

Ion Ratio Lower Upper

94 100

96 38.7 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.38

600

500

400

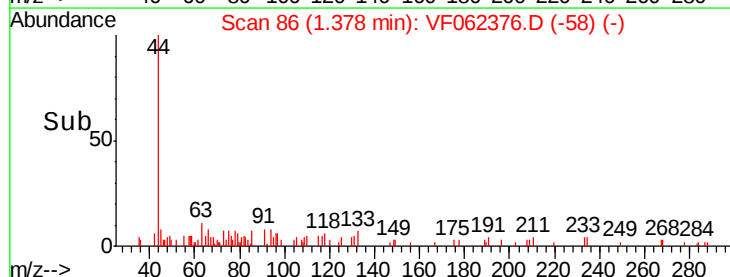
300

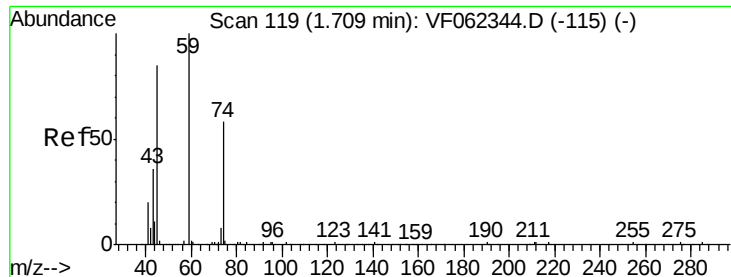
200

100

0

Time-->





#8

Diethyl Ether

Concen: 2.477 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

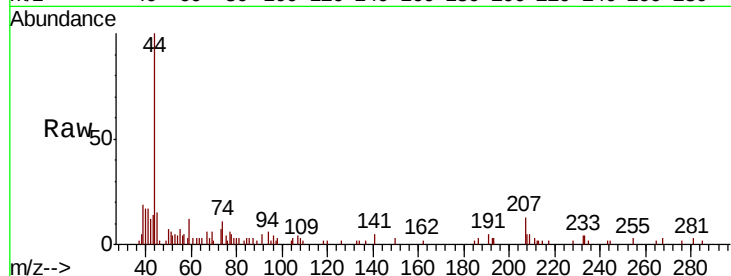
SB-12-2.0-2.5RE

Tot Ion: 74 Resp: 1636

Ion Ratio Lower Upper

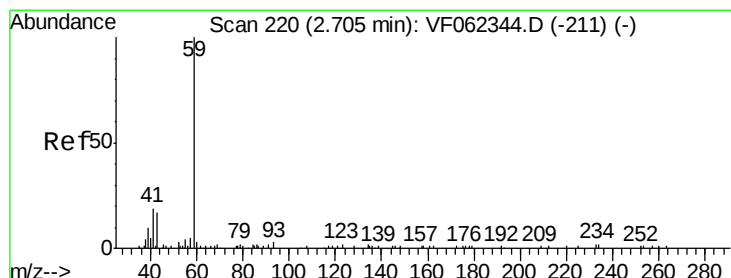
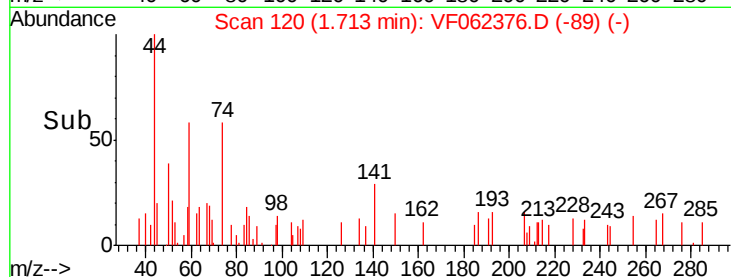
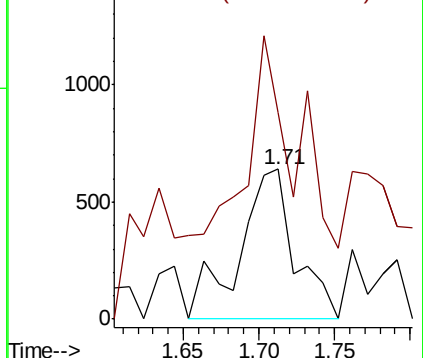
74 100

45 152.5 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 4.640 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF062376.D

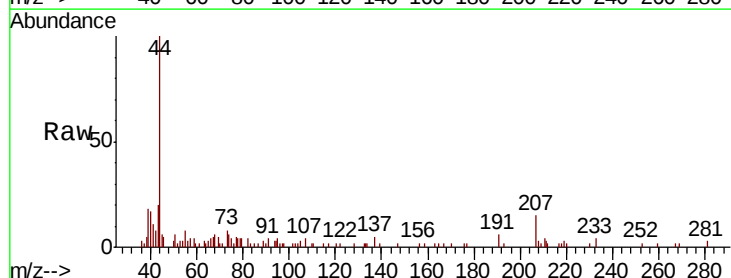
Acq: 8 May 2019 14:44

Tgt Ion: 59 Resp: 685

Ion Ratio Lower Upper

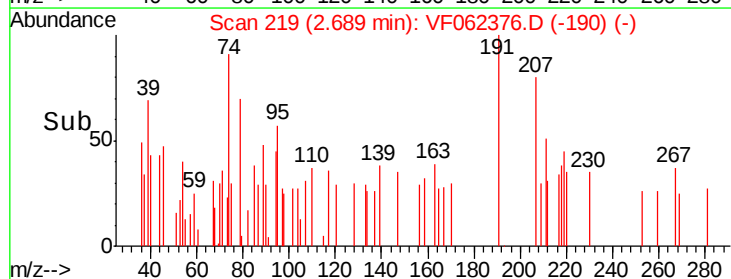
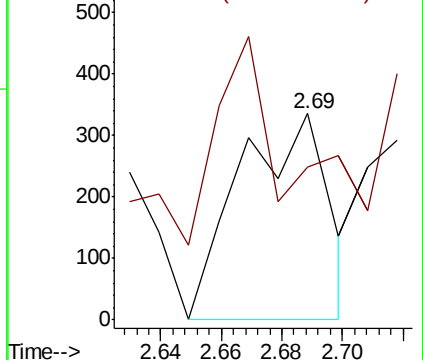
59 100

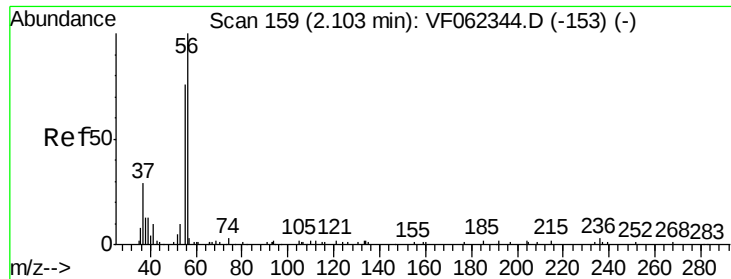
57 93.4 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

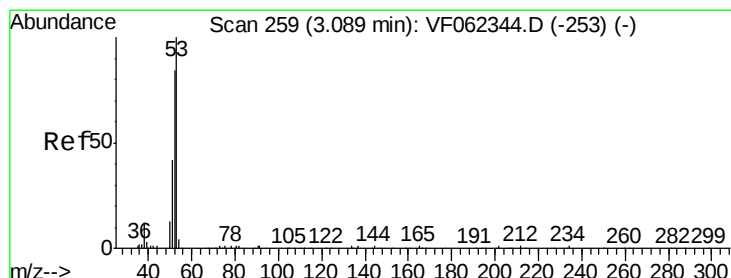
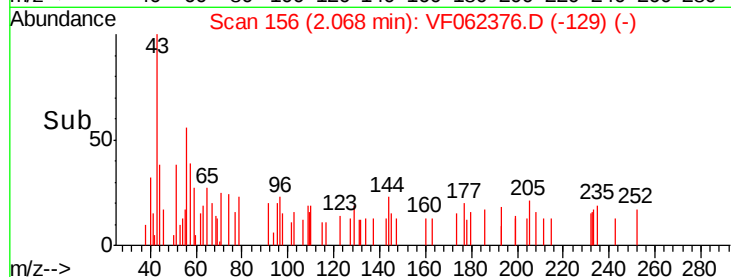
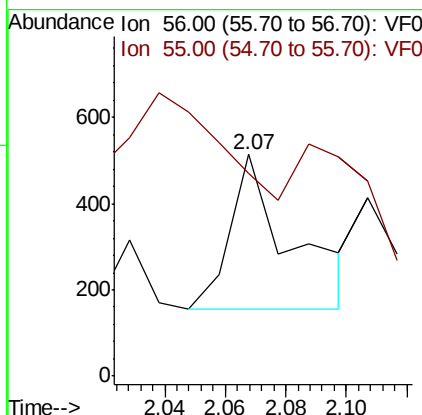
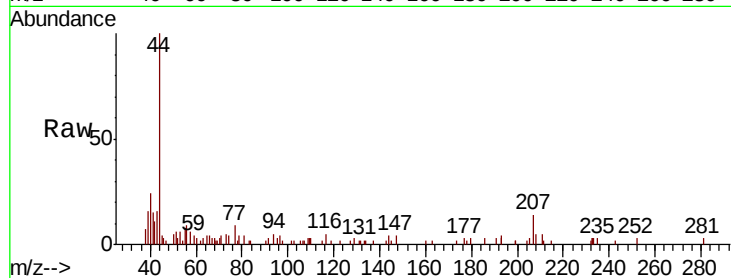




#13
Acrolein
Concen: Below Cal
RT: 2.07 min Scan# 156
Delta R.T. -0.04 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

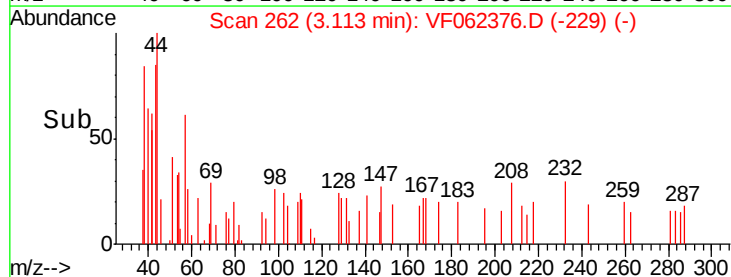
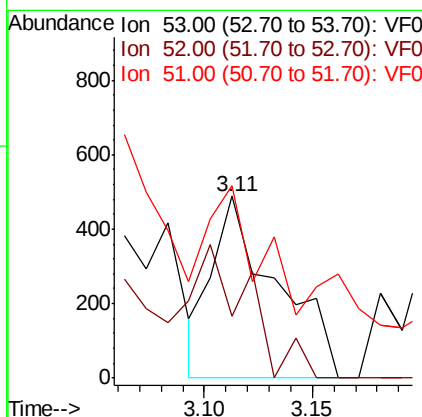
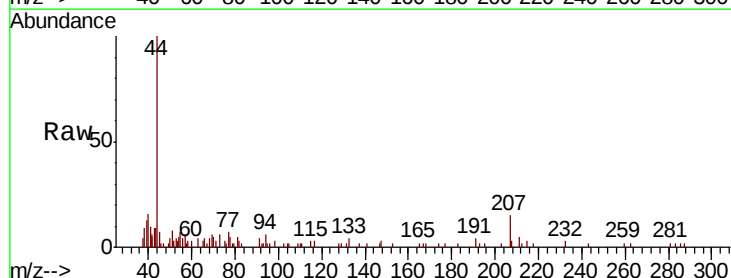
Instrument :
MSVOA_F
ClientSampleId :
SB-12-2.0-2.5RE

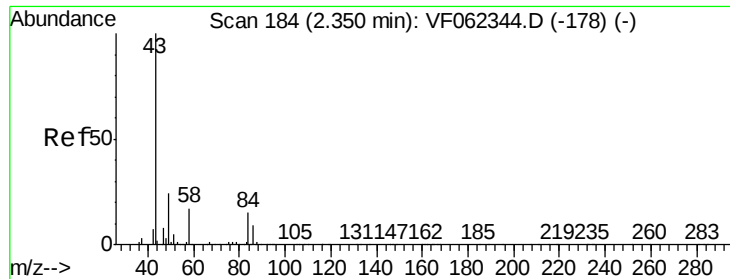
Tot Ion: 56 Resp: 502
Ion Ratio Lower Upper
56 100
55 81.9 58.4 87.6



#15
Acrylonitrile
Concen: 3.623 ug/l
RT: 3.11 min Scan# 262
Delta R.T. 0.02 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

Tgt Ion: 53 Resp: 1013
Ion Ratio Lower Upper
53 100
52 65.6 77.2 115.8#
51 178.5 40.6 61.0#





#16

Acetone

Concen: 9.916 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

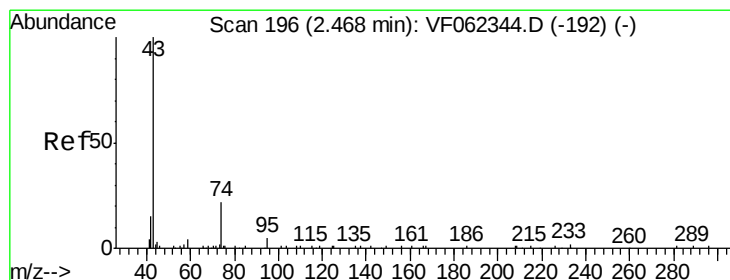
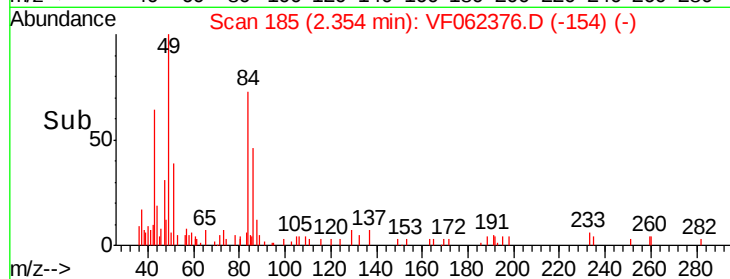
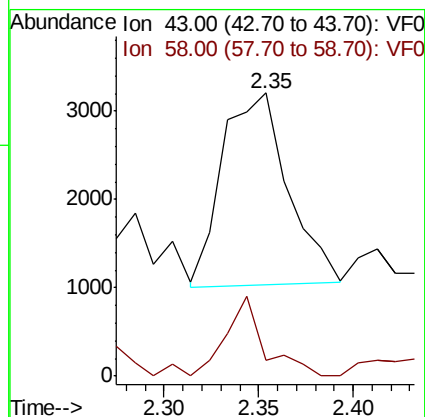
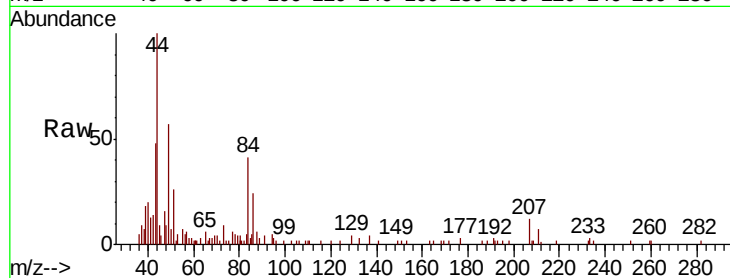
SB-12-2.0-2.5RE

Tot Ion: 43 Resp: 5239

Ion Ratio Lower Upper

43 100

58 8.3 13.1 19.7#



#18

Methyl Acetate

Concen: 1.170 ug/l

RT: 2.48 min Scan# 198

Delta R.T. 0.01 min

Lab File: VF062376.D

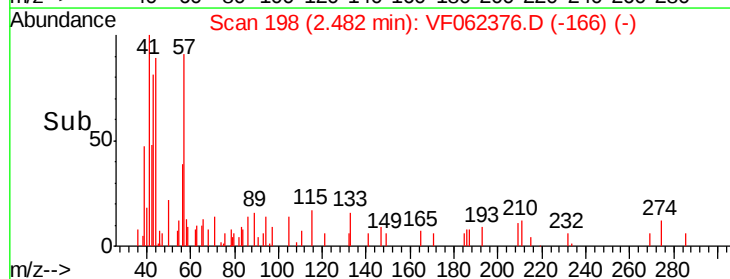
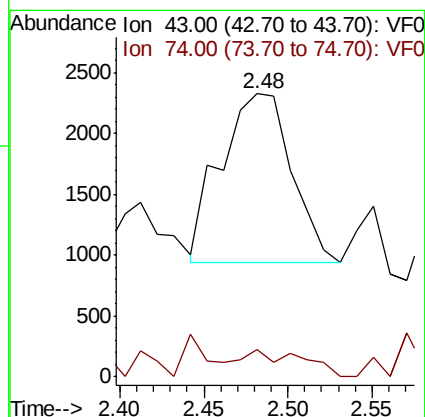
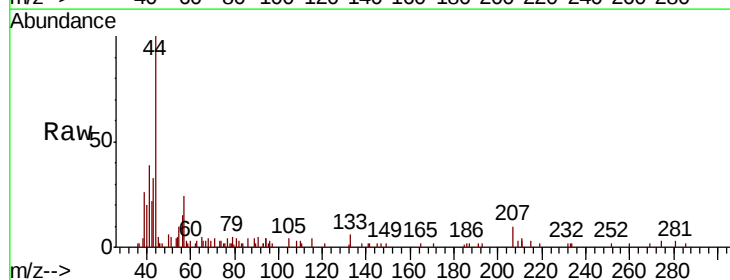
Acq: 8 May 2019 14:44

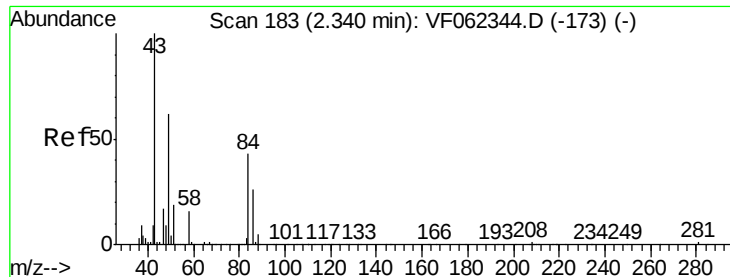
Tgt Ion: 43 Resp: 4075

Ion Ratio Lower Upper

43 100

74 13.8 15.0 22.4#

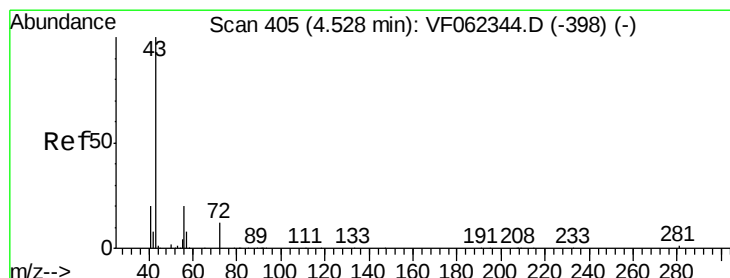
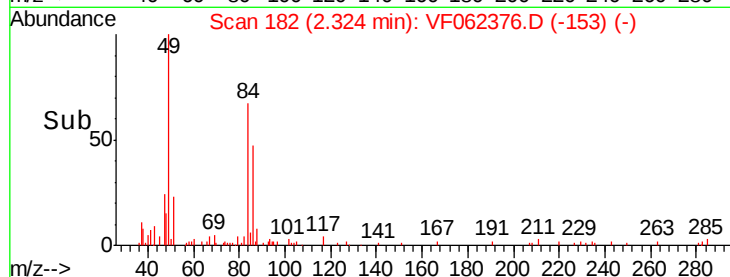
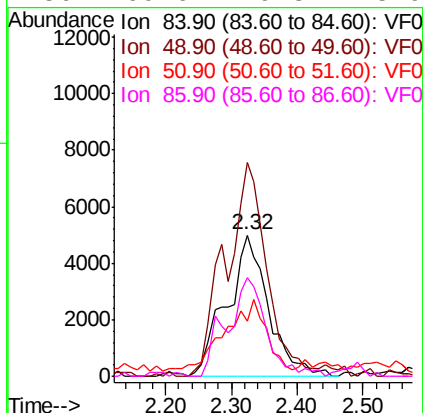
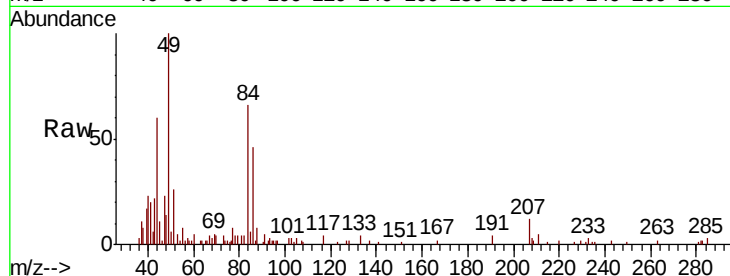




#20
Methvlene Chloride
Concen: 11.541 ug/l
RT: 2.32 min Scan# 182
Delta R.T. -0.02 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

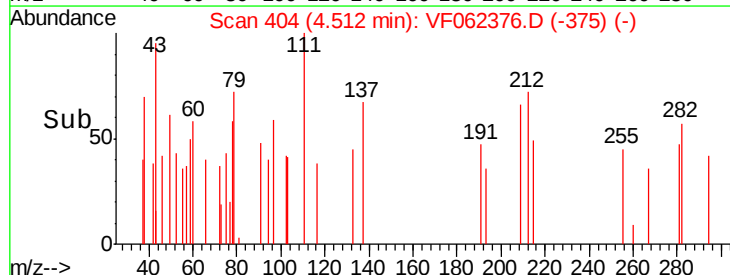
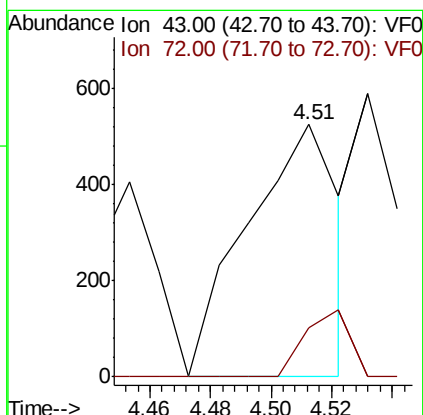
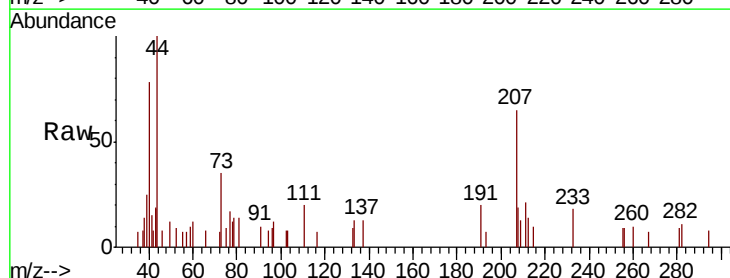
Instrument :
MSVOA_F
ClientSampleId :
SB-12-2.0-2.5RE

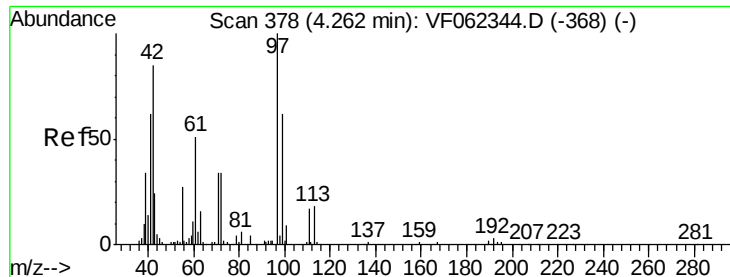
Tot Ion: 84 Resp: 22062
Ion Ratio Lower Upper
84 100
49 151.3 117.5 176.3
51 31.1 37.0 55.4#
86 69.6 49.3 73.9



#25
2-Butanone
Concen: 1.659 ug/l
RT: 4.51 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

Tgt Ion: 43 Resp: 1101
Ion Ratio Lower Upper
43 100
72 19.6 14.2 21.4





#29

Tetrahydrofuran

Concen: 4.773 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-12-2.0-2.5RE

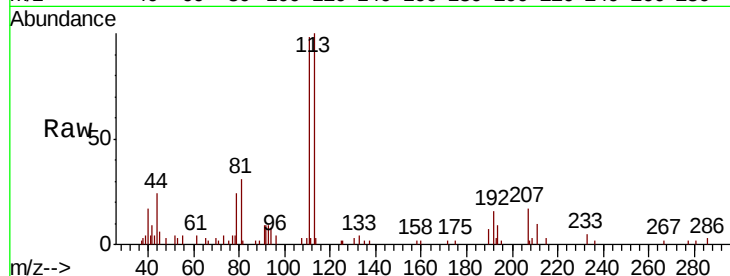
Tot Ion: 42 Resp: 1456

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

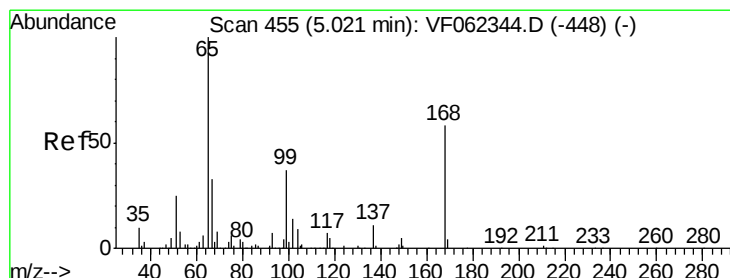
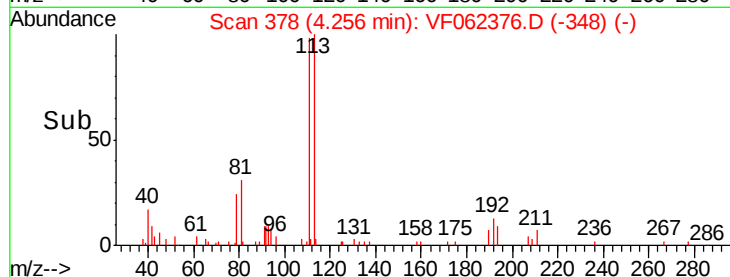
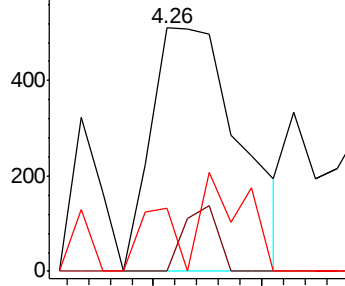
71 10.4 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 54.770 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF062376.D

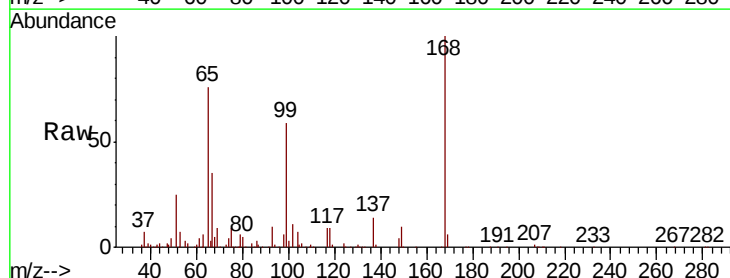
Acq: 8 May 2019 14:44

Tgt Ion: 65 Resp: 143053

Ion Ratio Lower Upper

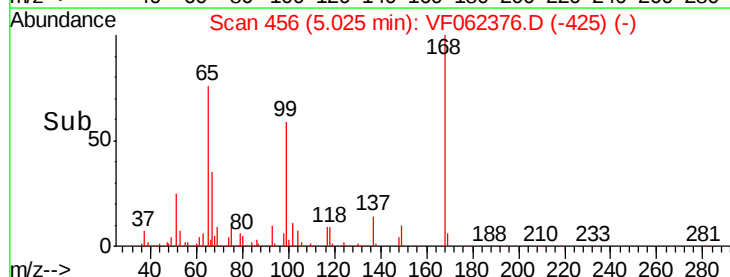
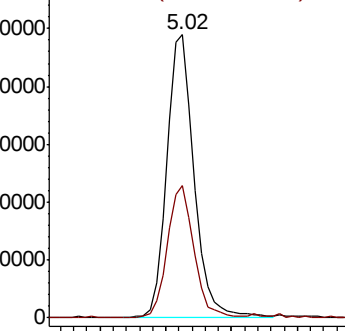
65 100

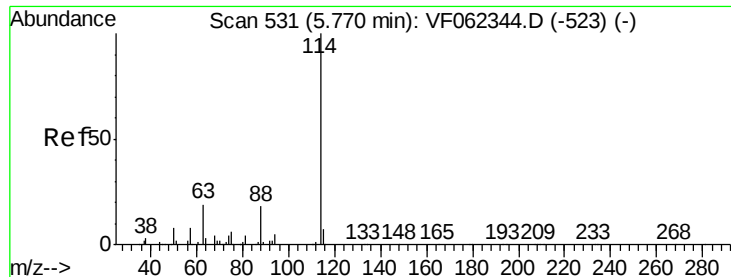
67 45.5 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-12-2.0-2.5RE

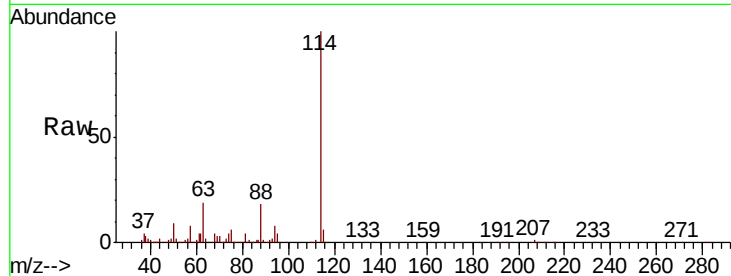
Tot Ion:114 Resp: 380449

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.4

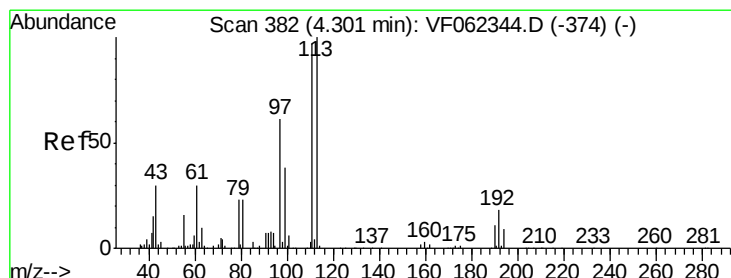
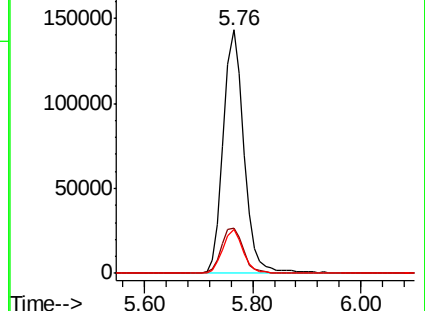
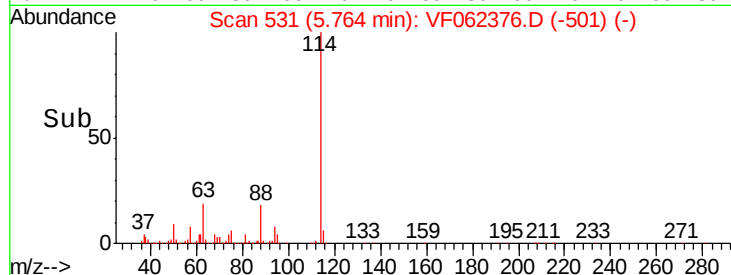
88 18.2 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 52.326 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

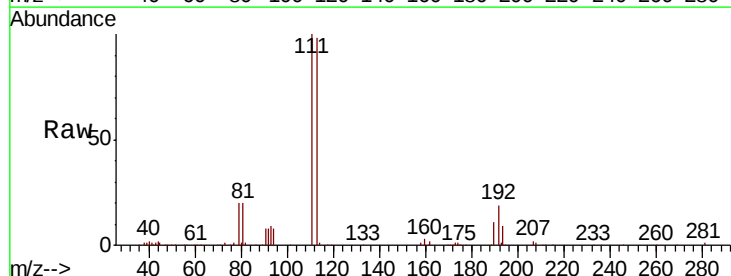
Tgt Ion:113 Resp: 158598

Ion Ratio Lower Upper

113 100

111 101.1 79.4 119.0

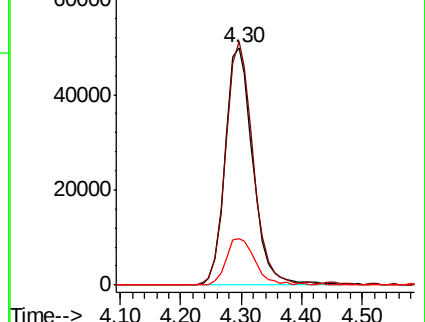
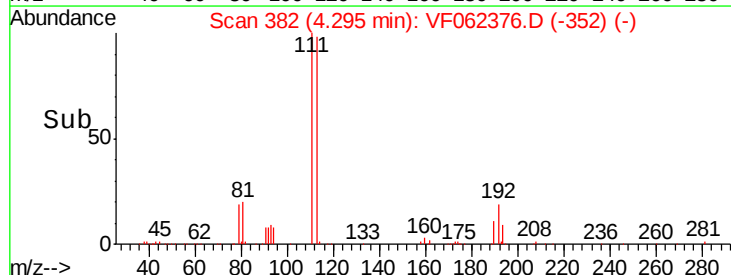
192 20.6 16.0 24.0

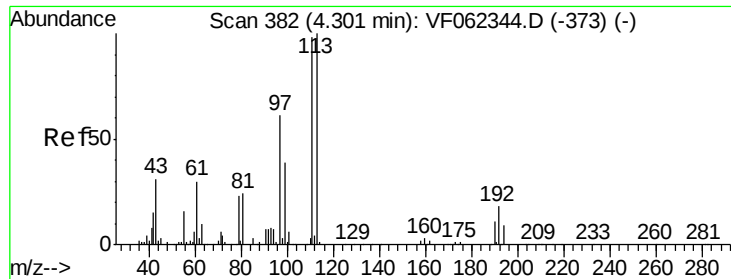


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

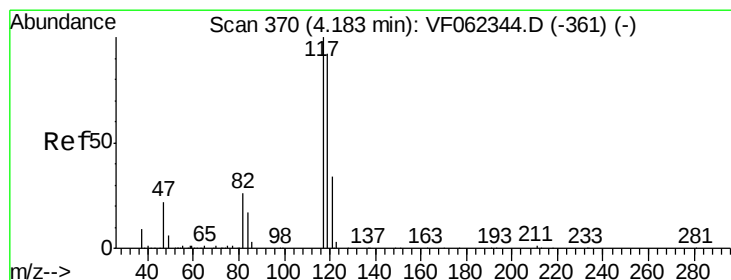
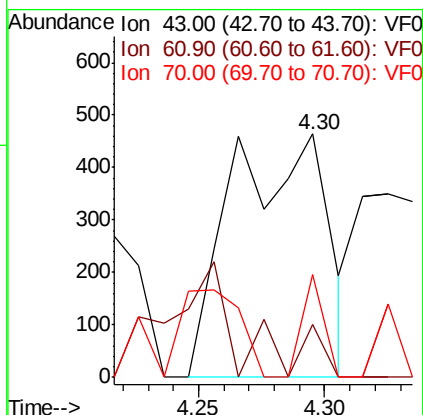
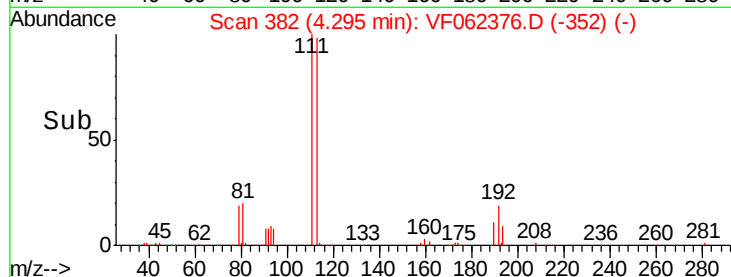
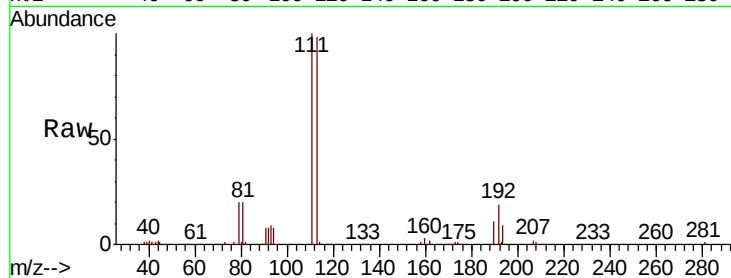




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

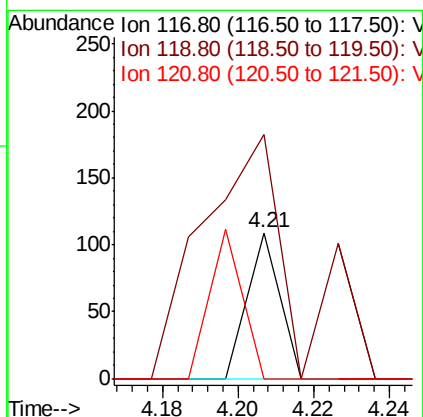
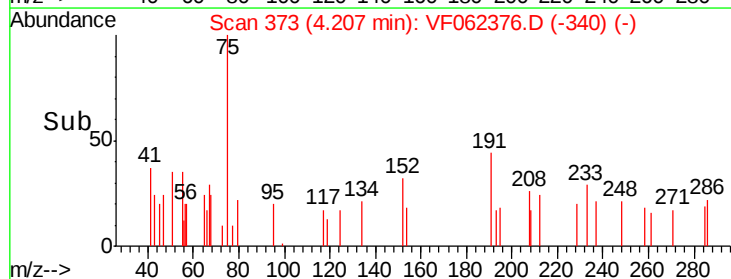
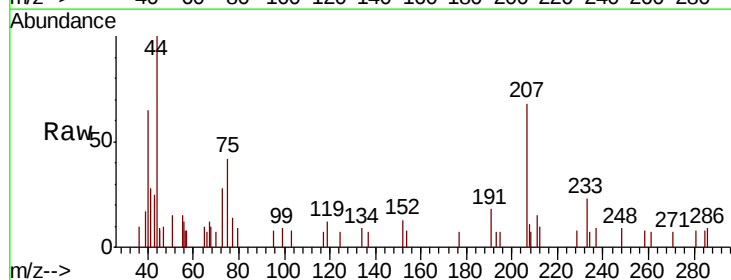
Instrument :
MSVOA_F
ClientSampleId :
SB-12-2.0-2.5RE

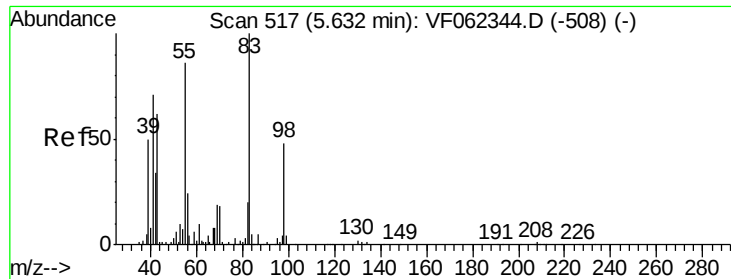
Tot Ion: 43 Resp: 1220
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 9.5 8.2 12.2



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.21 min Scan# 373
Delta R.T. 0.02 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

Tgt Ion: 117 Resp: 64
Ion Ratio Lower Upper
117 100
119 74.3 73.4 110.2
121 0.0 27.4 41.0#





#39

Methylcyclohexane

Concen: 1.678 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.13 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-12-2.0-2.5RE

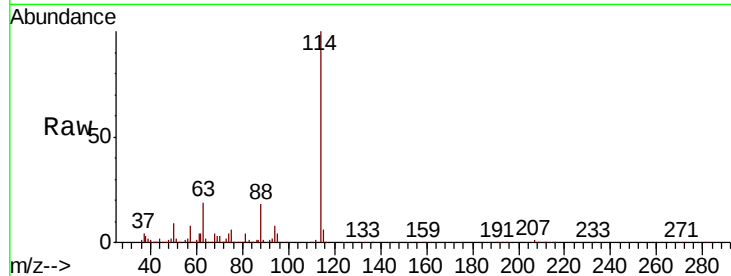
Tot Ion: 83 Resp: 5500

Ion Ratio Lower Upper

83 100

55 44.5 69.0 103.6#

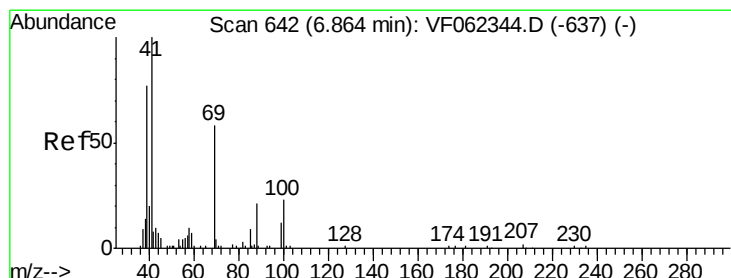
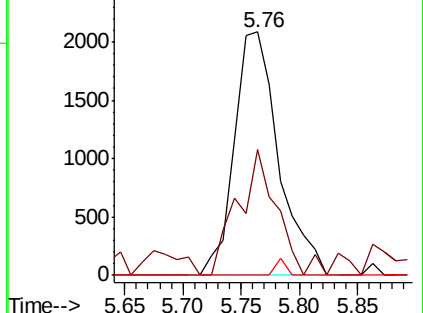
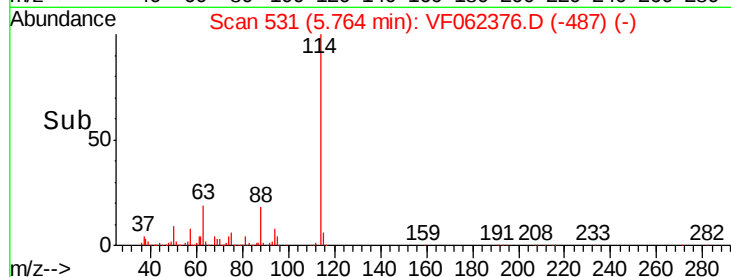
98 0.0 38.6 58.0#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.85 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

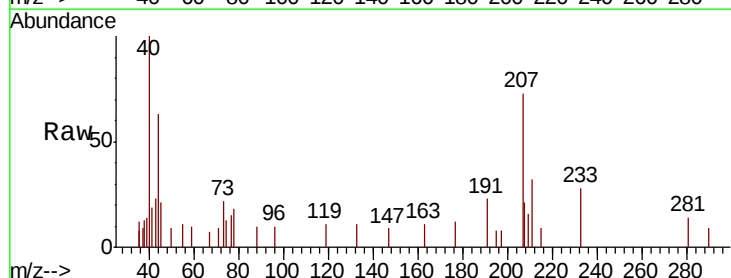
Tgt Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 1379.3 55.6 83.4#

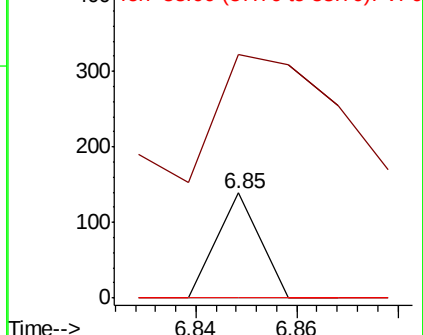
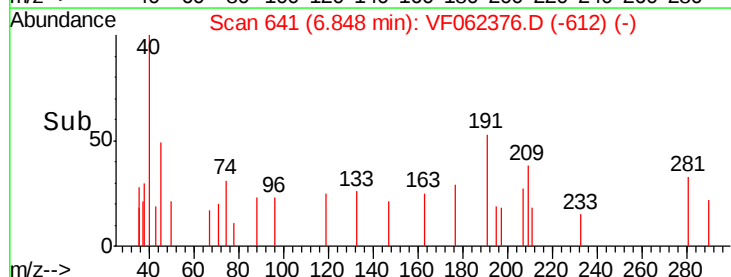
58 0.0 52.8 79.2#

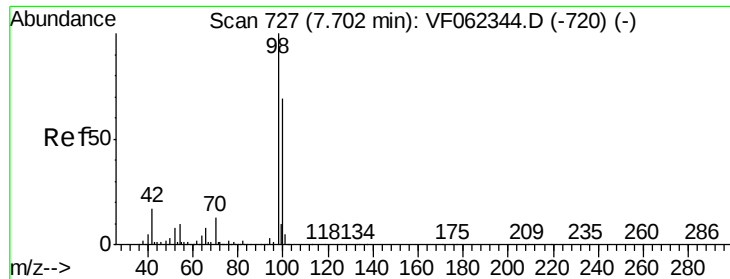


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

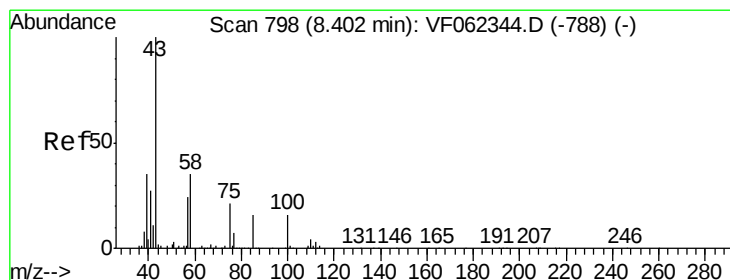
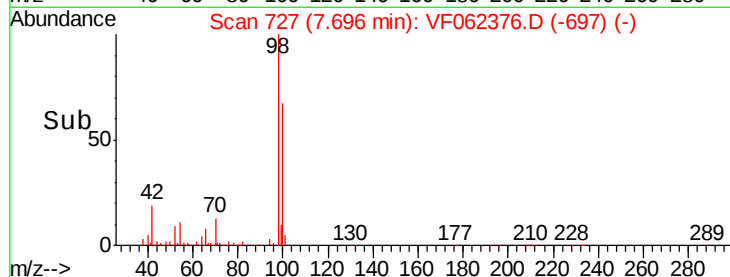
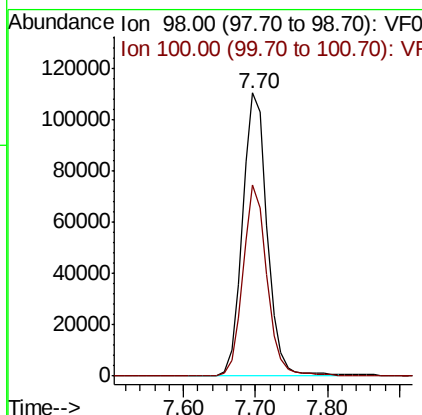
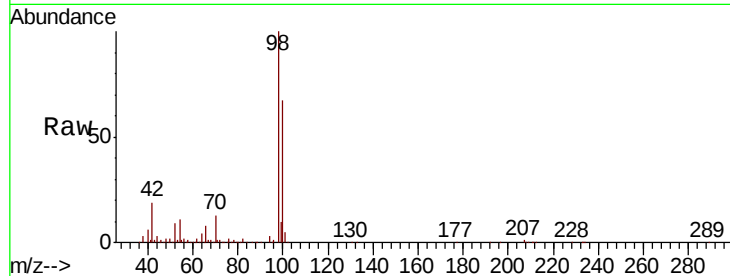




#50
Toluene-d8
Concen: 36.111 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.01 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

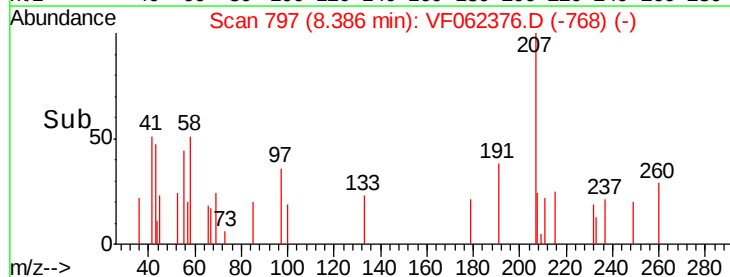
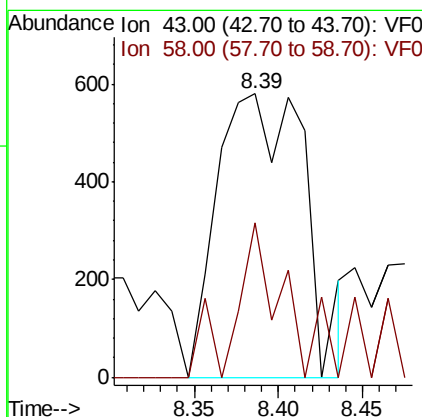
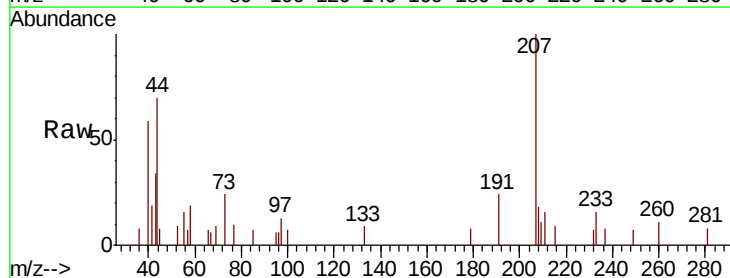
Instrument :
MSVOA_F
ClientSampleId :
SB-12-2.0-2.5RE

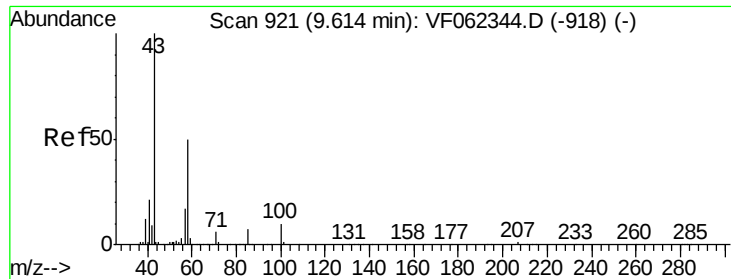
Tot Ion: 98 Resp: 264941
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 1.858 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.02 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

Tgt Ion: 43 Resp: 2093
Ion Ratio Lower Upper
43 100
58 26.8 27.8 41.6#

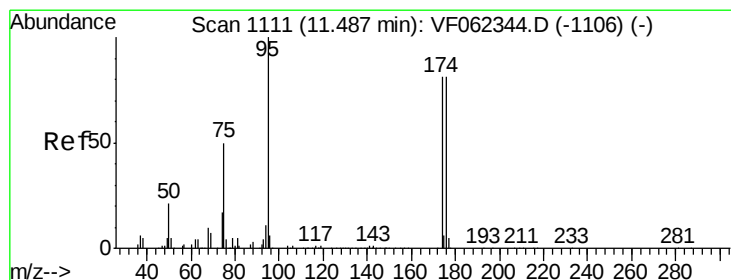
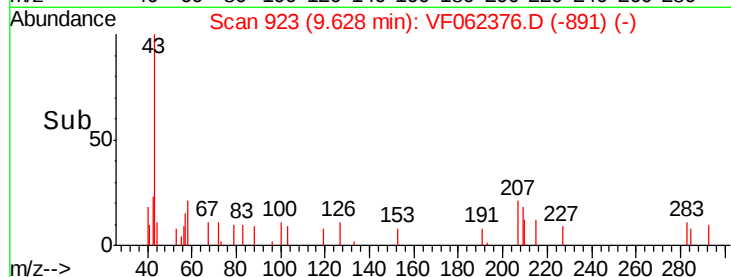
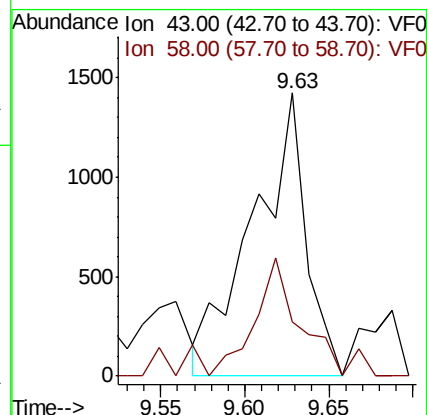
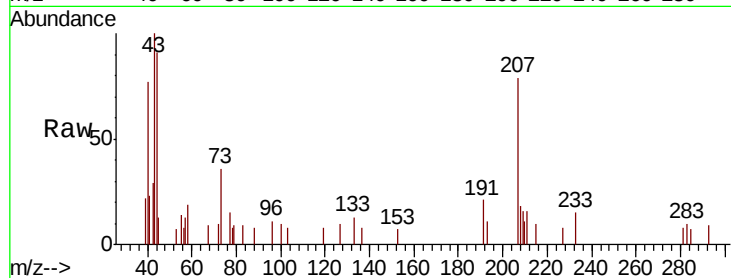




#59
2-Hexanone
Concen: 3.996 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

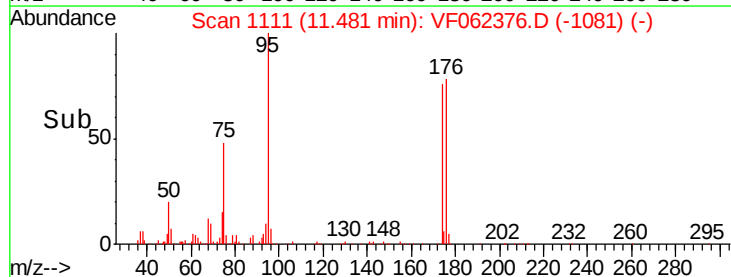
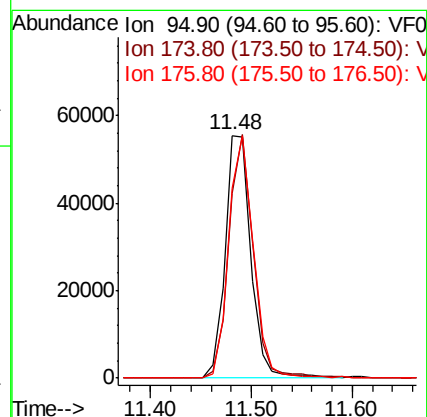
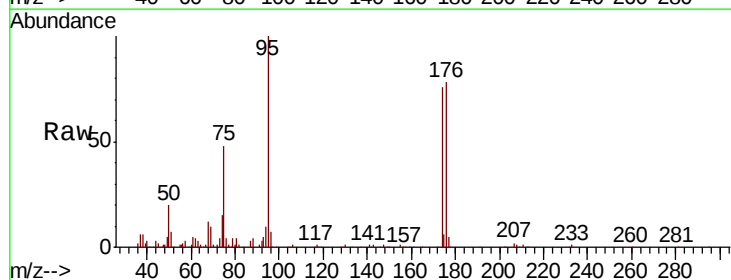
Instrument :
MSVOA_F
ClientSampleId :
SB-12-2.0-2.5RE

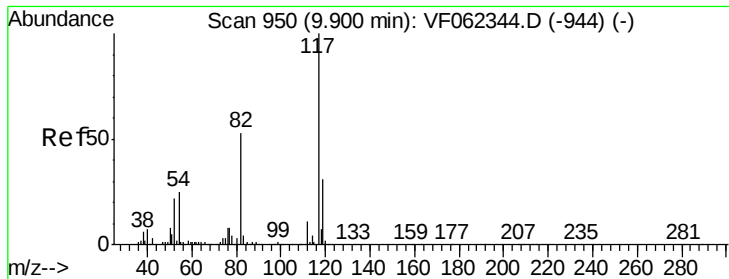
Tot Ion: 43 Resp: 3113
Ion Ratio Lower Upper
43 100
58 37.3 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 29.858 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VF062376.D
Acq: 8 May 2019 14:44

Tgt Ion: 95 Resp: 98834
Ion Ratio Lower Upper
95 100
174 94.2 0.0 191.8
176 96.0 0.0 193.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.89 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-12-2.0-2.5RE

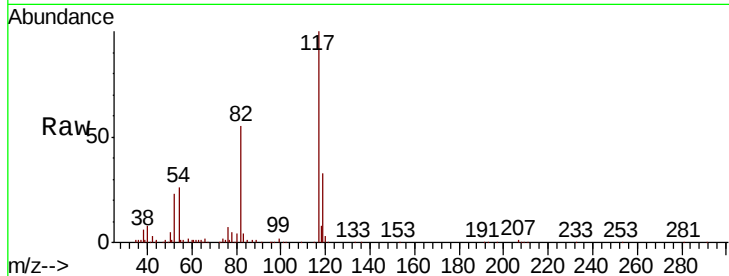
Tot Ion:117 Resp: 253836

Ion Ratio Lower Upper

117 100

82 54.7 42.2 63.2

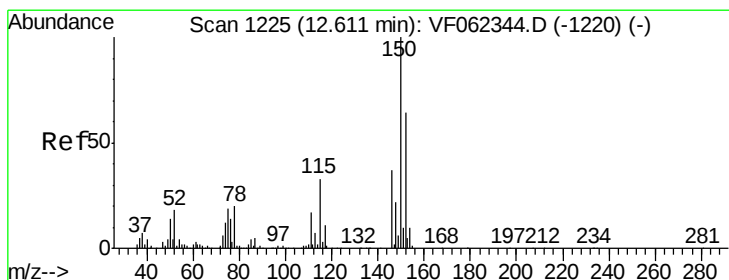
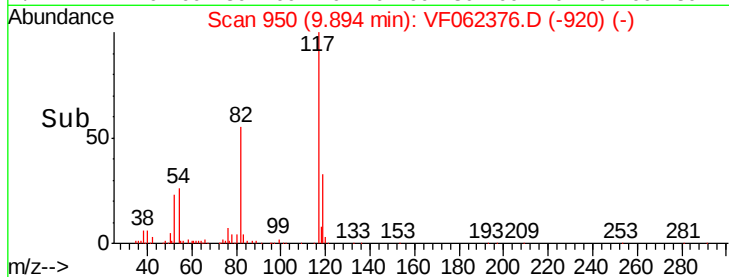
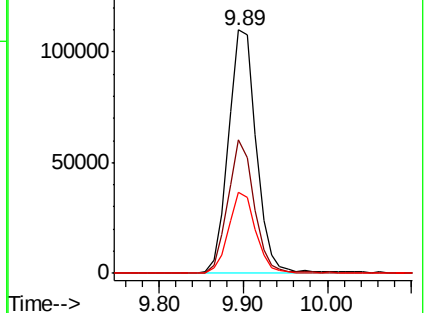
119 33.2 25.0 37.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

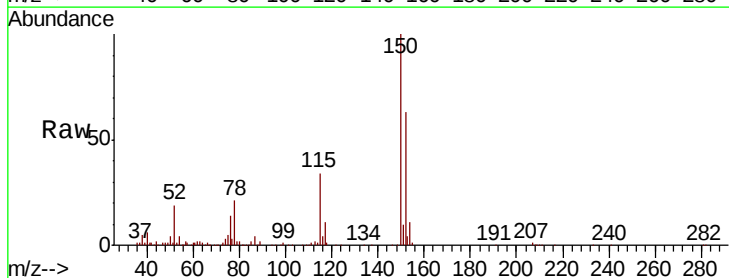
Tgt Ion:152 Resp: 92586

Ion Ratio Lower Upper

152 100

115 55.3 26.4 79.2

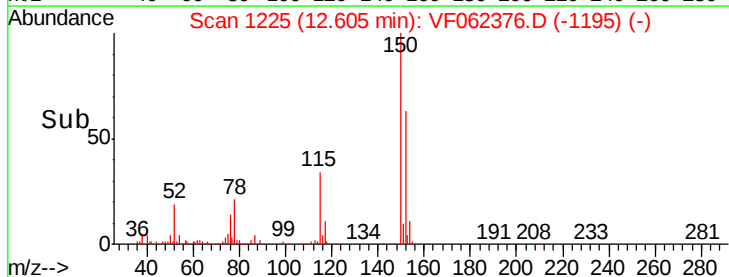
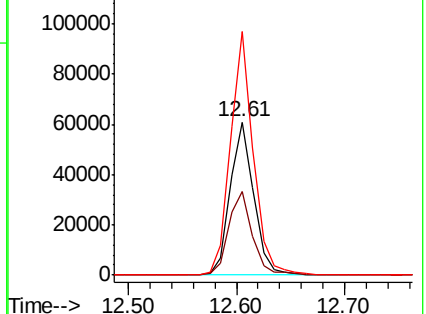
150 154.5 0.0 335.0

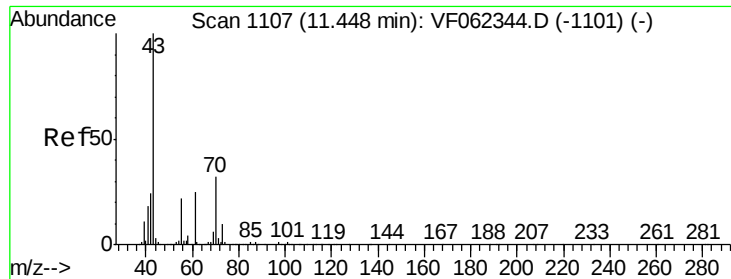


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.791 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-12-2.0-2.5RE

Tot Ion: 43 Resp: 2111

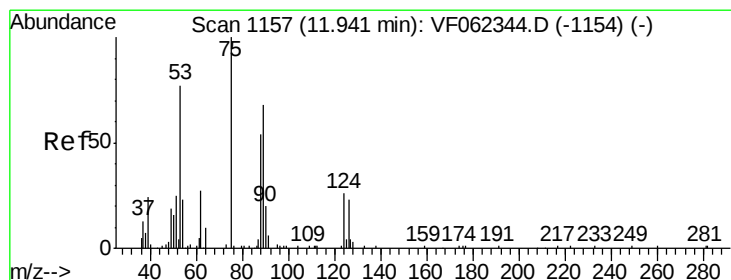
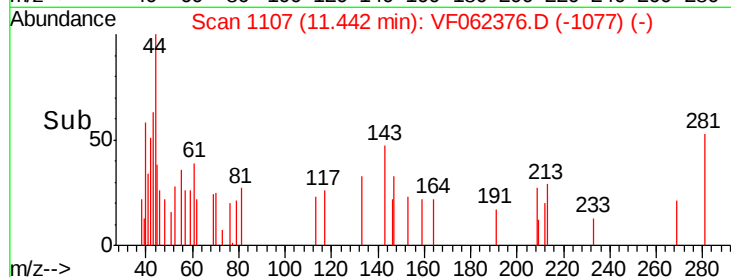
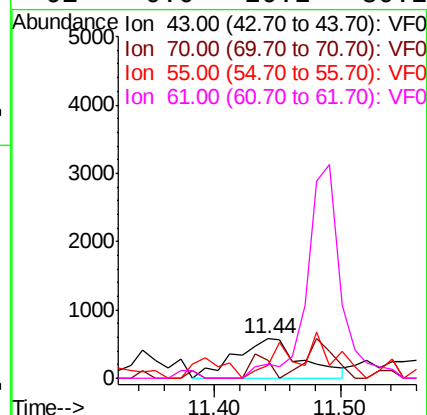
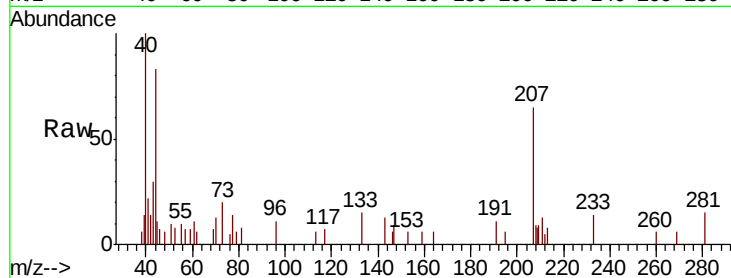
Ion Ratio Lower Upper

43 100

70 17.1 26.5 39.7#

55 35.3 17.8 26.6#

61 0.0 20.2 30.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 1.688 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

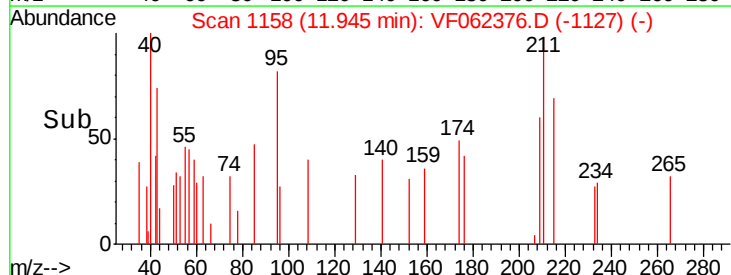
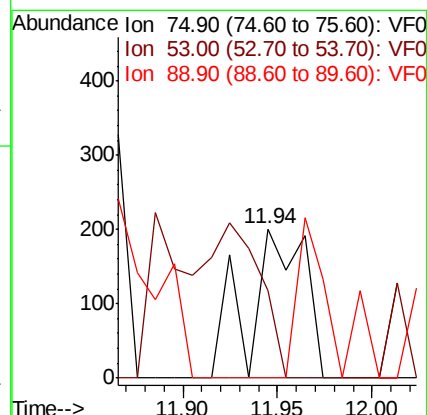
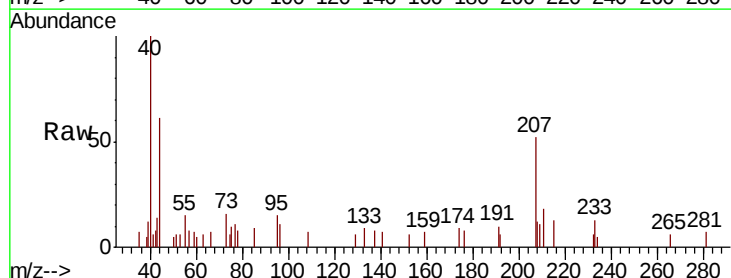
Tgt Ion: 75 Resp: 416

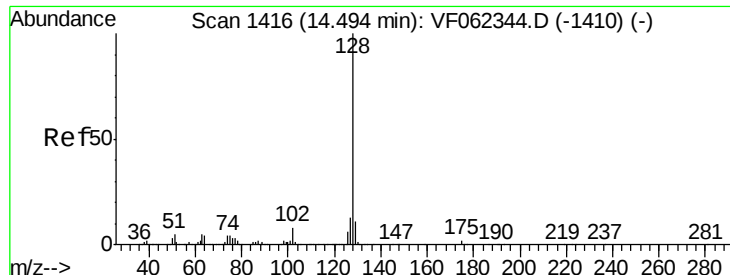
Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 66.3 0.0 0.0#





#95

Naphthalene

Concen: 1.221 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062376.D

Acq: 8 May 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-12-2.0-2.5RE

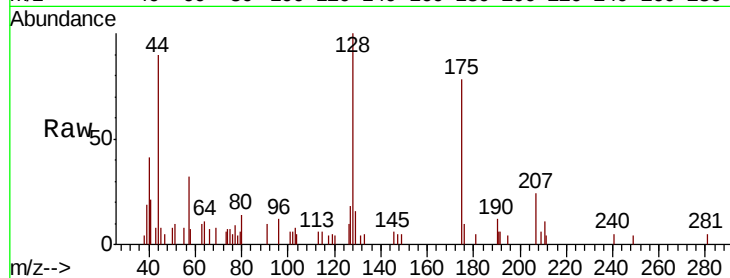
Tot Ion:128 Resp: 4194

Ion Ratio Lower Upper

128 100

127 13.7 10.5 15.7

129 15.0 8.6 12.8#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

