

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062457.D
 Acq On : 11 May 2019 13:52
 Operator : FY/SY
 Sample : K2754-03
 Misc : 6.32g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:46:00 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	5.06	168	320008	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	424475	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.92	117	335474	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	182484	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.05	65	150495	49.76	ug/l	0.02
Spiked Amount	50.000		Recovery	=	99.52%	
35) Dibromofluoromethane	4.32	113	172217	50.93	ug/l	0.01
Spiked Amount	50.000		Recovery	=	101.86%	
50) Toluene-d8	7.72	98	345215	42.17	ug/l	0.01
Spiked Amount	50.000		Recovery	=	84.34%	
62) 4-Bromofluorobenzene	11.50	95	147370	39.90	ug/l	0.01
Spiked Amount	50.000		Recovery	=	79.80%	

Target Compounds

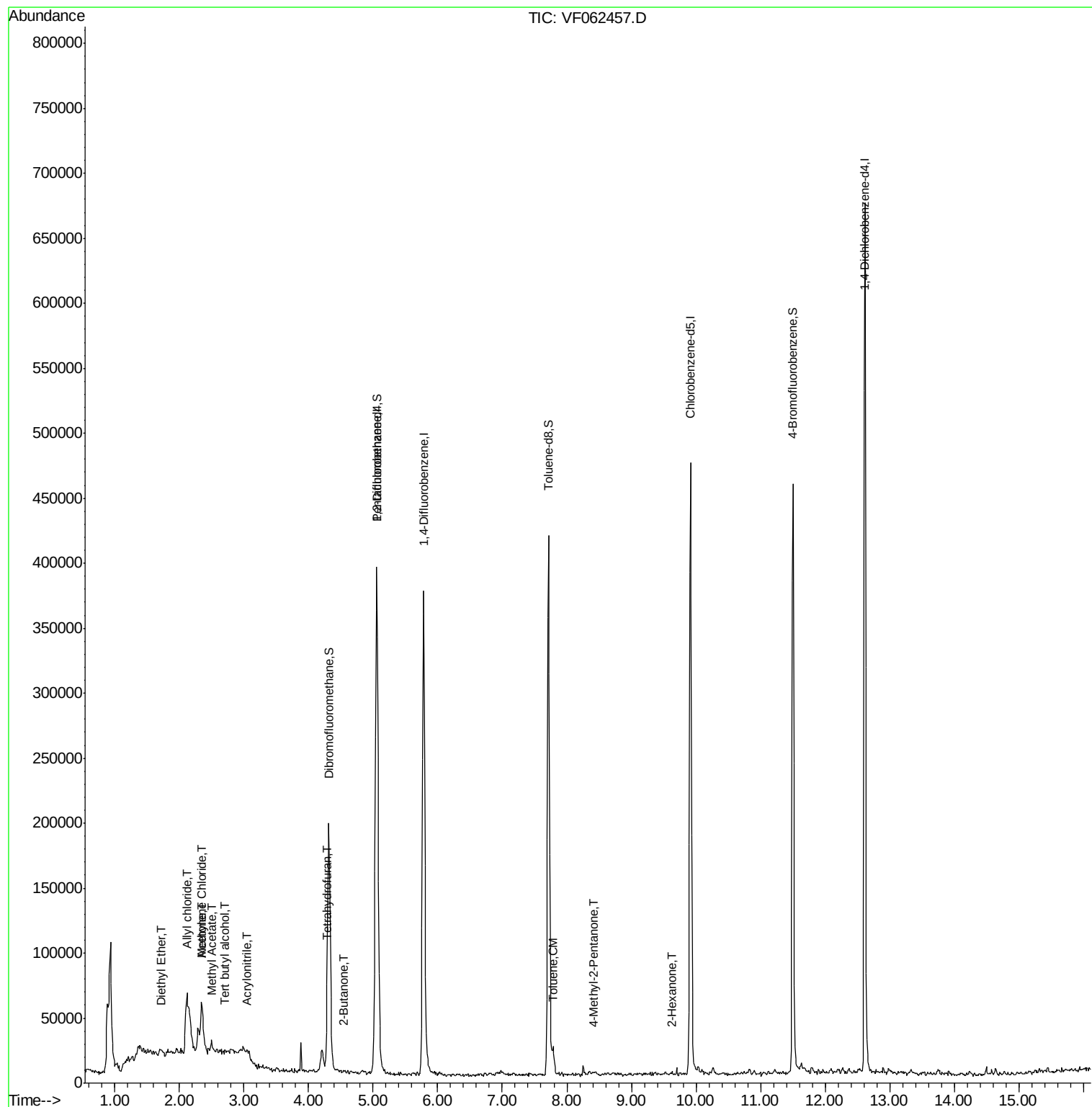
					Qvalue	
5) Bromomethane	1.44	94	875	Below Cal	#	14
8) Diethyl Ether	1.71	74	1596	2.087	ug/l	64
11) Tert butyl alcohol	2.69	59	1976	11.561	ug/l #	68
13) Acrolein	2.11	56	1099	Below Cal	#	1
14) Allyl chloride	2.12	41	33944	15.662	ug/l #	79
15) Acrylonitrile	3.04	53	1136	3.509	ug/l #	10
16) Acetone	2.35	43	40136	65.606	ug/l	95
18) Methyl Acetate	2.49	43	6038	2.432	ug/l #	58
20) Methylene Chloride	2.34	84	10141	4.582	ug/l	98
25) 2-Butanone	4.55	43	1942	2.527	ug/l #	90
29) Tetrahydrofuran	4.28	42	897	2.539	ug/l #	36
37) Ethyl Acetate	4.29	43	1983	Below Cal	#	73
38) Carbon Tetrachloride	4.18	117	78	Below Cal	#	7
49) 1,4-Dioxane	6.74	88	88	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.41	43	3162	2.516	ug/l #	77
52) Toluene	7.79	92	9202	1.858	ug/l	96
59) 2-Hexanone	9.64	43	2274	2.616	ug/l #	54

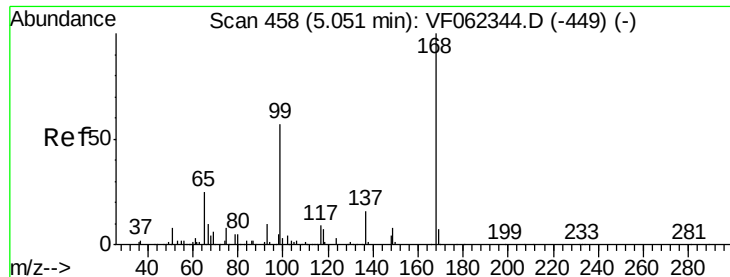
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 07 04:34:57 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

Instrument :

MSVOA_F

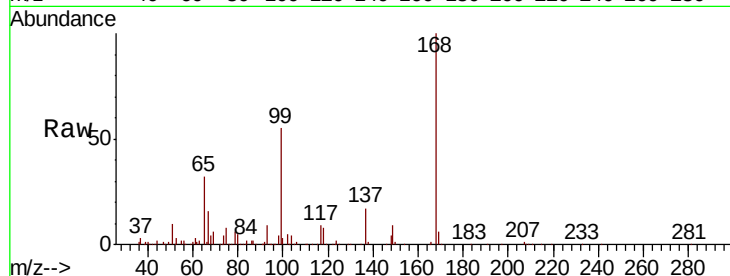
ClientSampled :

Tot Ion:168 Resp: 320008

Ion Ratio Lower Upper

168 100

99 54.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

120000

100000

80000

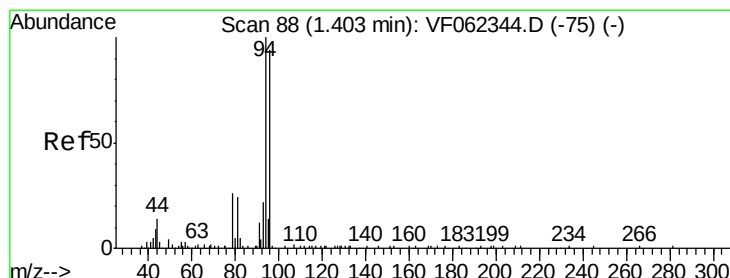
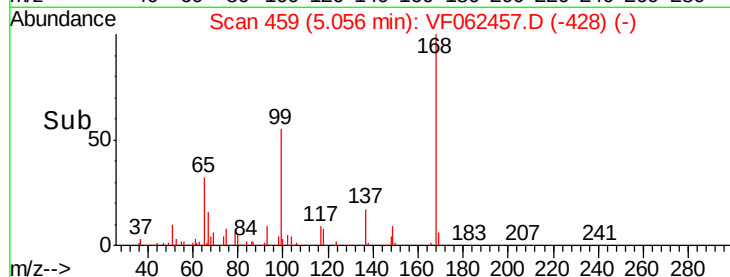
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.44 min Scan# 92

Delta R.T. 0.04 min

Lab File: VF062457.D

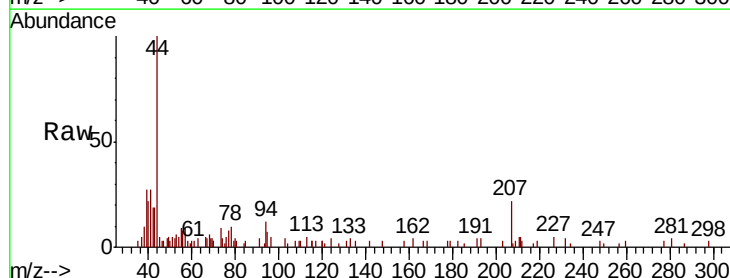
Acq: 11 May 2019 13:52

Tgt Ion: 94 Resp: 875

Ion Ratio Lower Upper

94 100

96 11.2 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.44

600

500

400

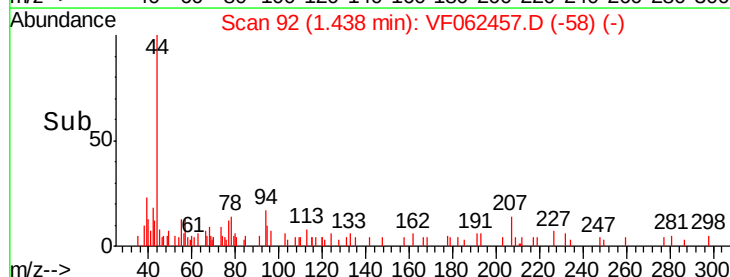
300

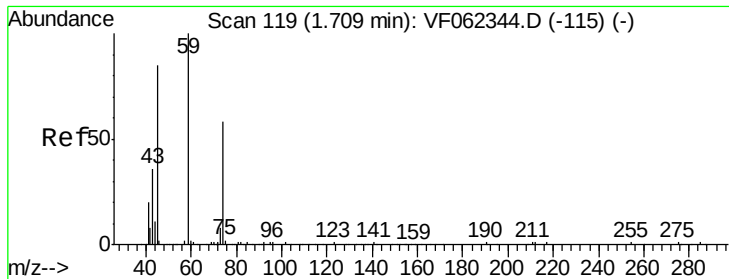
200

100

0

Time-->





#8

Diethyl Ether

Concen: 2.087 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

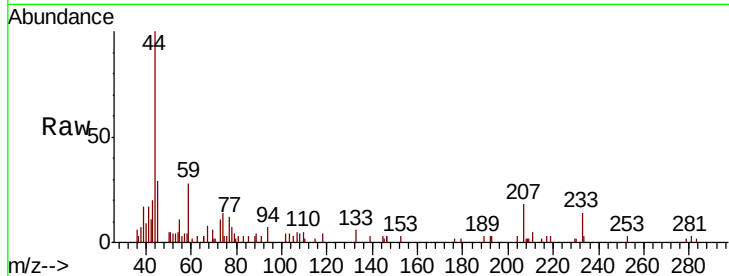
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 1596

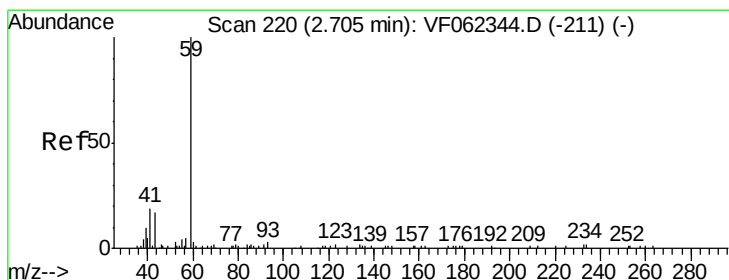
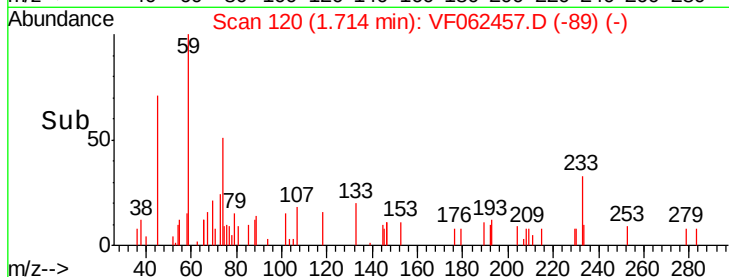
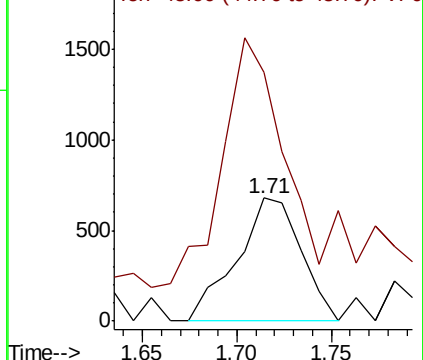
Ion Ratio Lower Upper

74 100

45 193.2 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: 11.561 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF062457.D

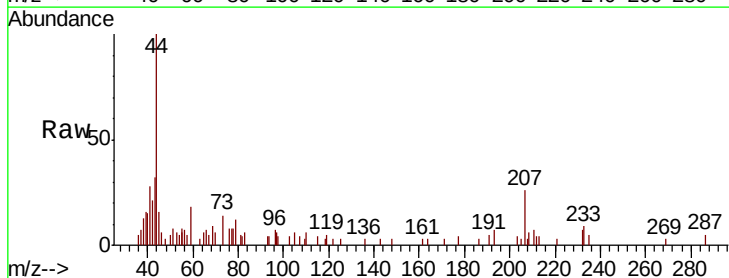
Acq: 11 May 2019 13:52

Tgt Ion: 59 Resp: 1976

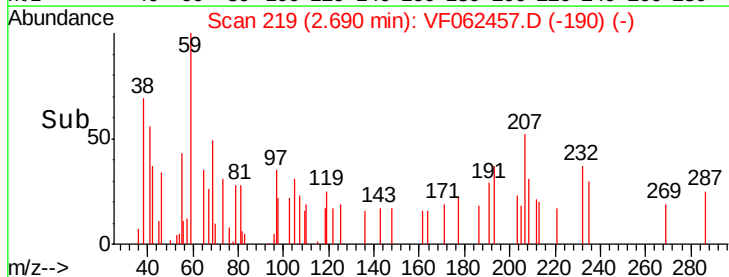
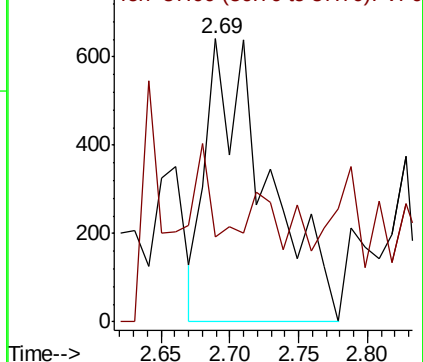
Ion Ratio Lower Upper

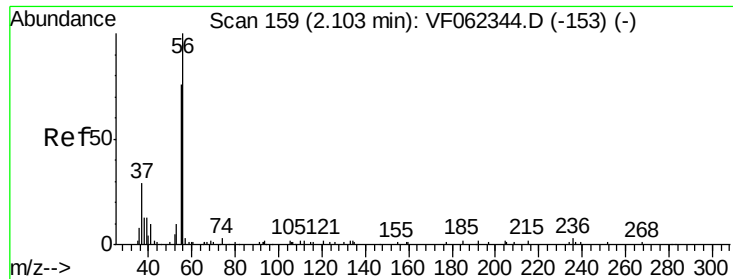
59 100

57 23.8 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0
Ion 57.00 (56.70 to 57.70): VF0

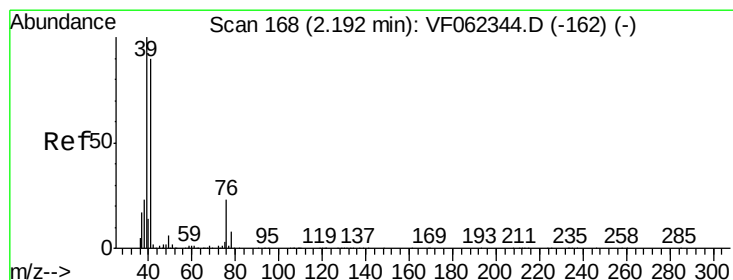
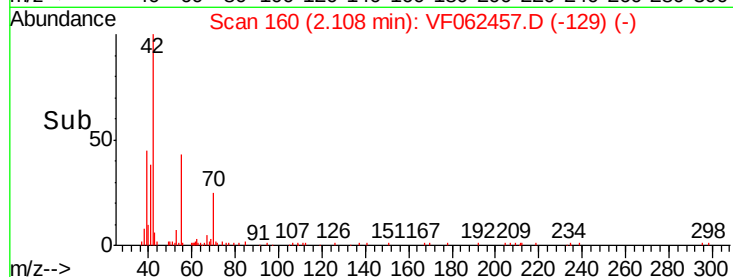
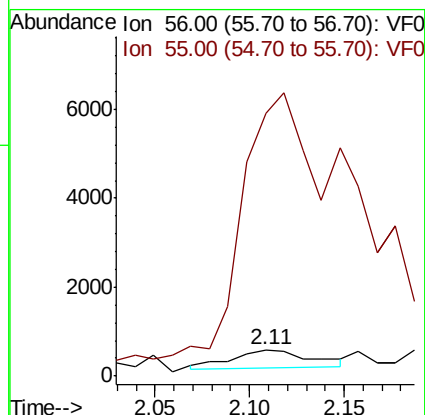
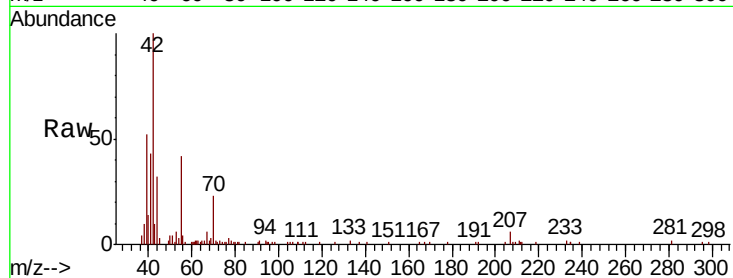




#13
Acrolein
Concen: Below Cal
RT: 2.11 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

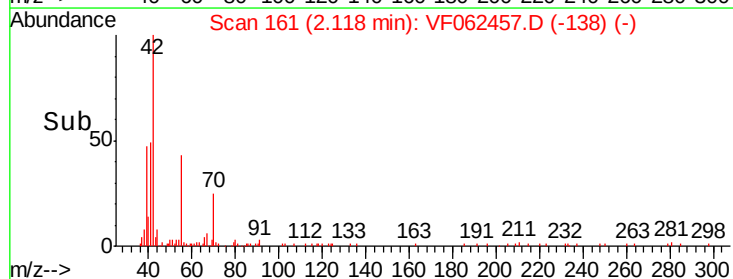
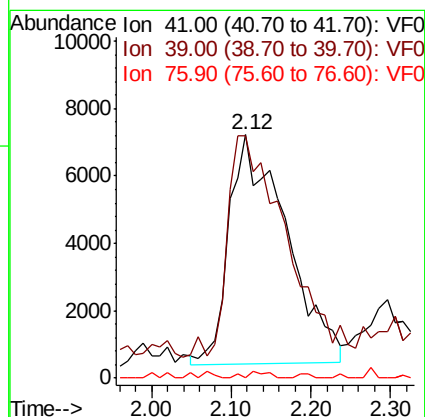
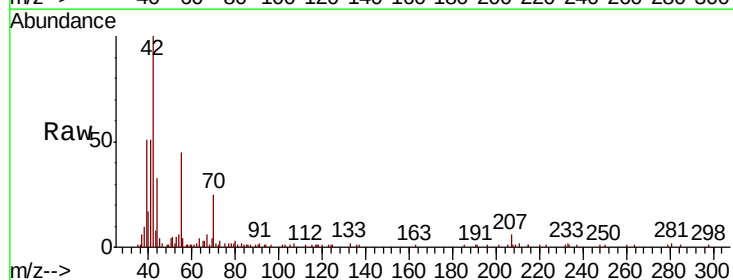
Instrument :
MSVOA_F
ClientSampleId :

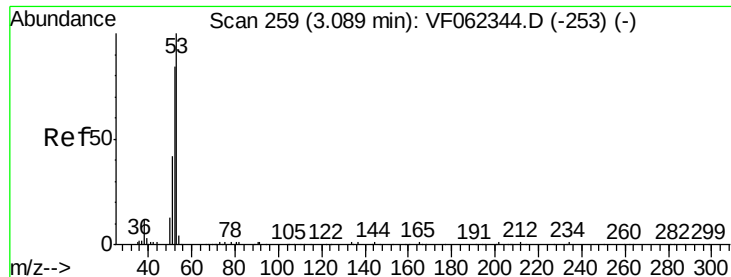
Tot Ion: 56 Resp: 1099
Ion Ratio Lower Upper
56 100
55 2436.9 58.4 87.6#



#14
Allyl chloride
Concen: 15.662 ug/l
RT: 2.12 min Scan# 161
Delta R.T. -0.07 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

Tgt Ion: 41 Resp: 33944
Ion Ratio Lower Upper
41 100
39 98.5 90.8 136.2
76 1.1 22.2 33.4#





#15

Acrylonitrile

Concen: 3.509 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.04 min

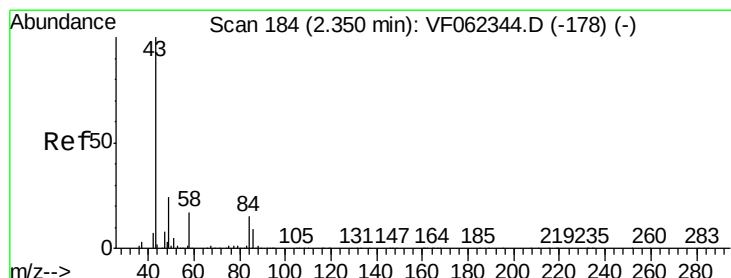
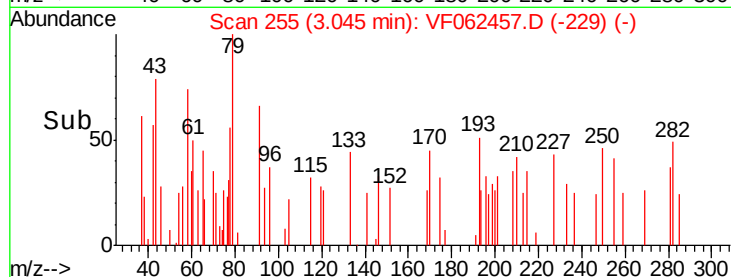
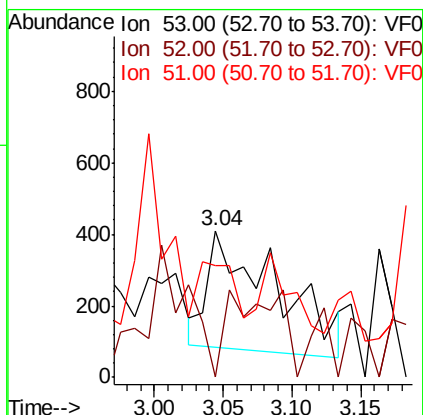
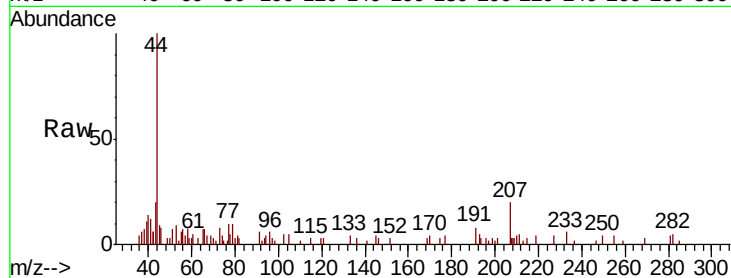
Lab File: VF062457.D

Acq: 11 May 2019 13:52

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 1136

Ion	Ratio	Lower	Upper
53	100		
52	0.0	77.2	115.8#
51	0.0	40.6	61.0#



#16

Acetone

Concen: 65.606 ug/l

RT: 2.35 min Scan# 185

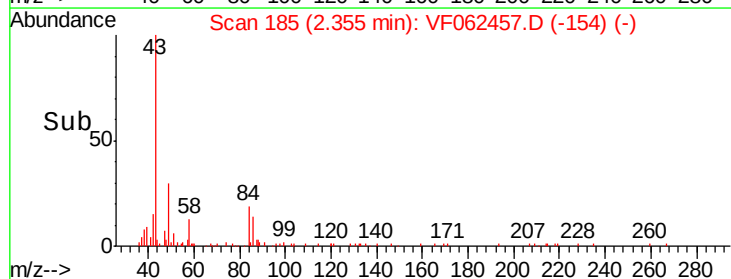
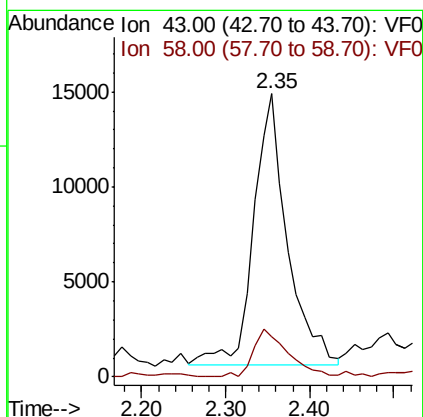
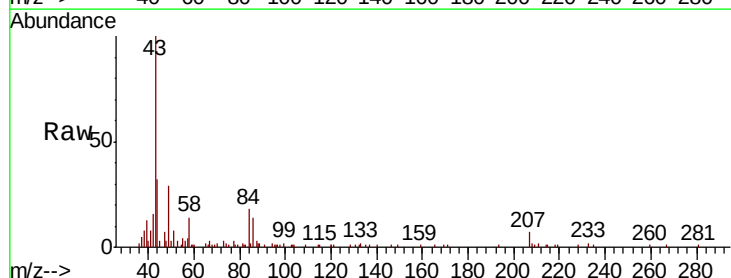
Delta R.T. 0.01 min

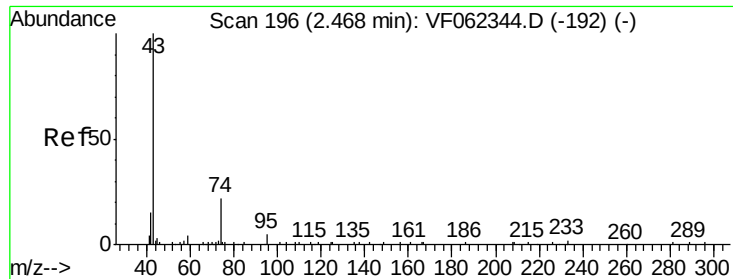
Lab File: VF062457.D

Acq: 11 May 2019 13:52

Tgt Ion: 43 Resp: 40136

Ion	Ratio	Lower	Upper
43	100		
58	14.2	13.1	19.7

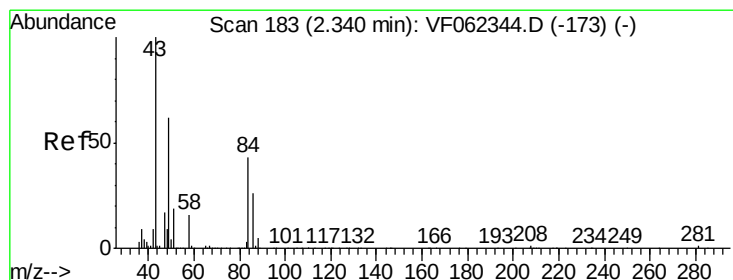
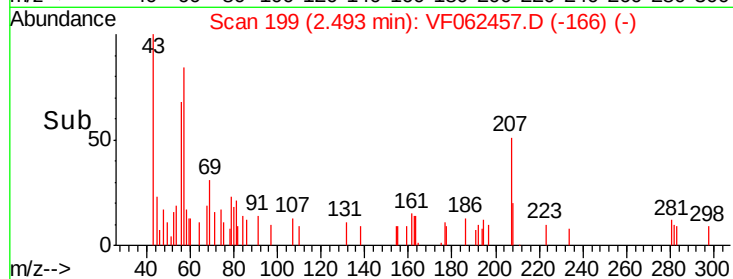
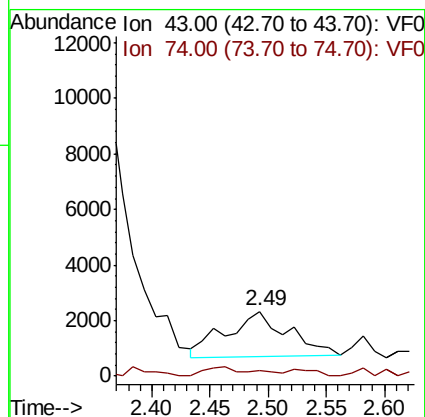
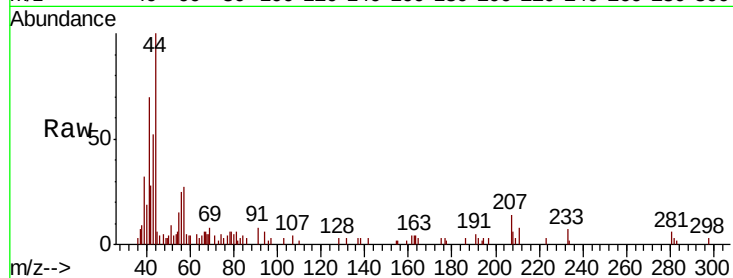




#18
Methyl Acetate
Concen: 2.432 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.02 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

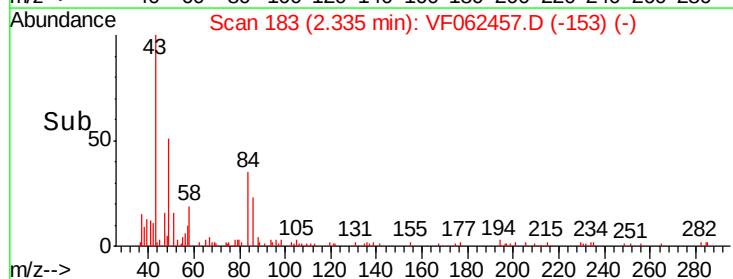
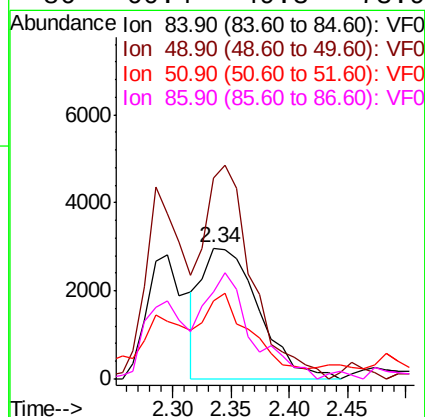
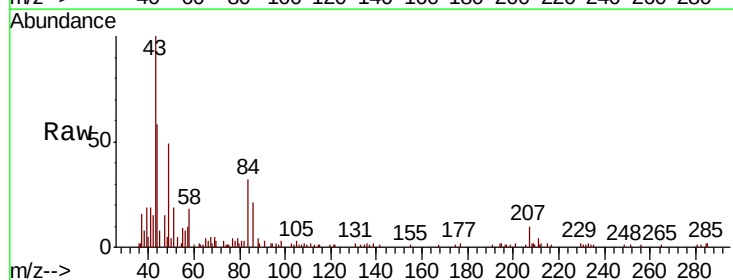
Instrument :
MSVOA_F
ClientSampled :

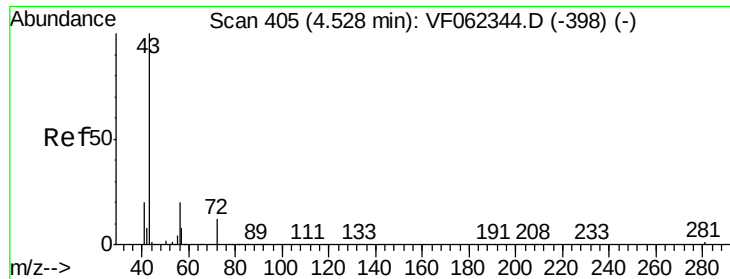
Tot Ion: 43 Resp: 6038
Ion Ratio Lower Upper
43 100
74 0.0 15.0 22.4#



#20
Methylene Chloride
Concen: 4.582 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

Tgt Ion: 84 Resp: 10141
Ion Ratio Lower Upper
84 100
49 148.5 117.5 176.3
51 48.7 37.0 55.4
86 60.4 49.3 73.9





#25

2-Butanone

Concen: 2.527 ug/l

RT: 4.55 min Scan# 408

Delta R.T. 0.02 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

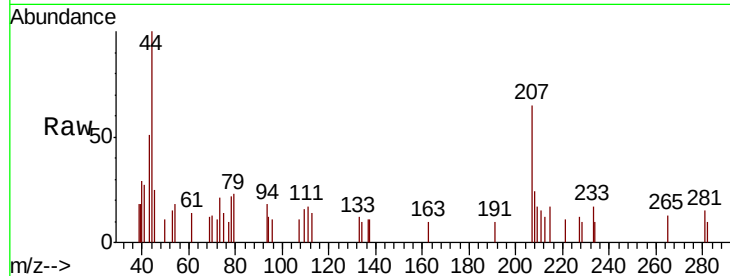
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1942

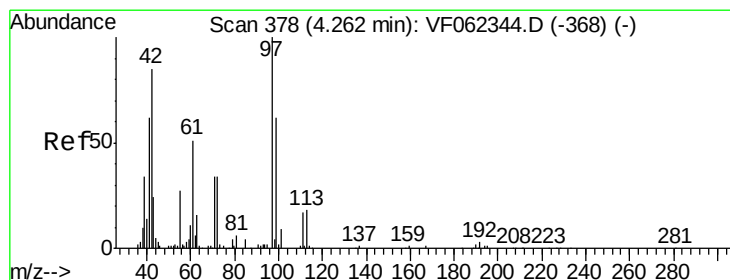
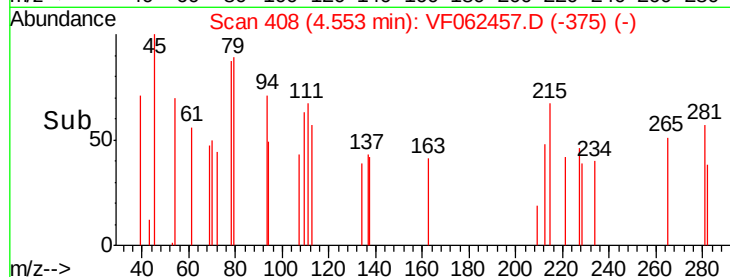
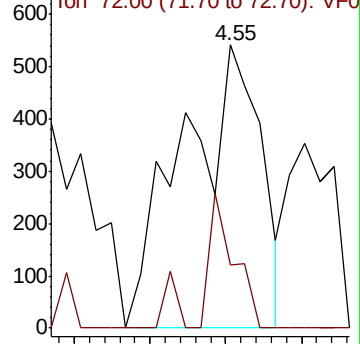
Ion Ratio Lower Upper

43 100

72 22.4 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: 2.539 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

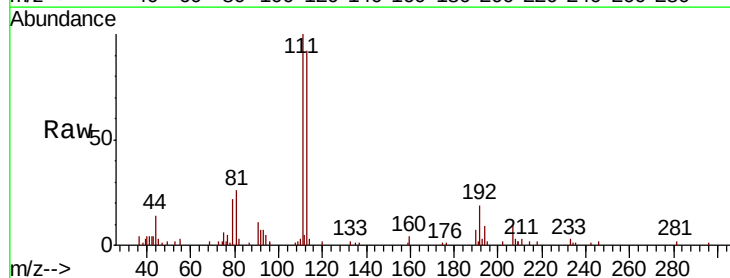
Tgt Ion: 42 Resp: 897

Ion Ratio Lower Upper

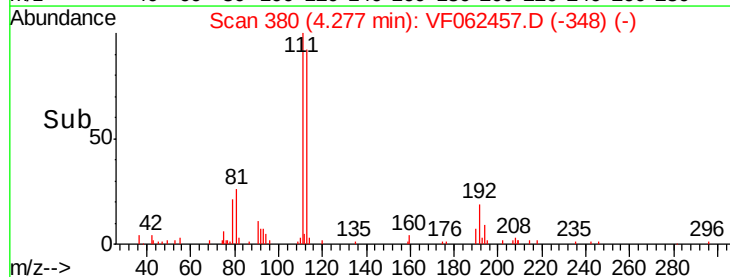
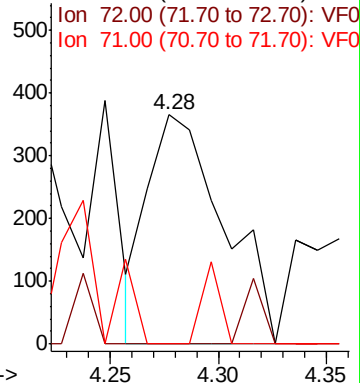
42 100

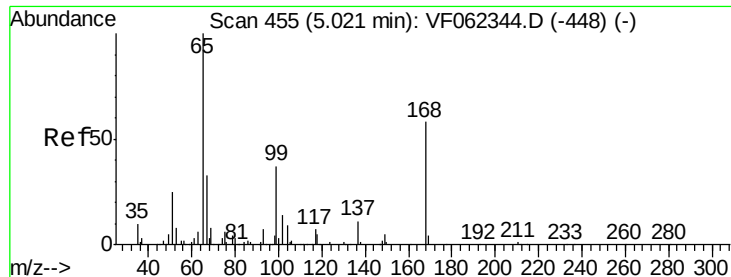
72 0.0 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 49.763 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

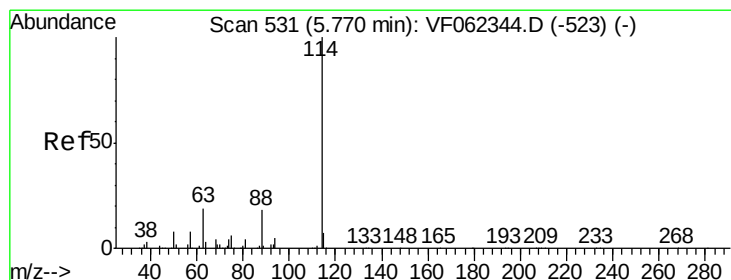
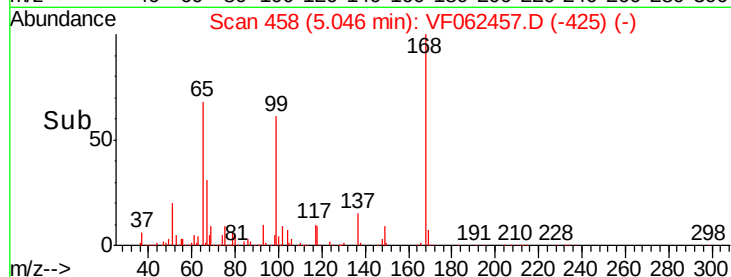
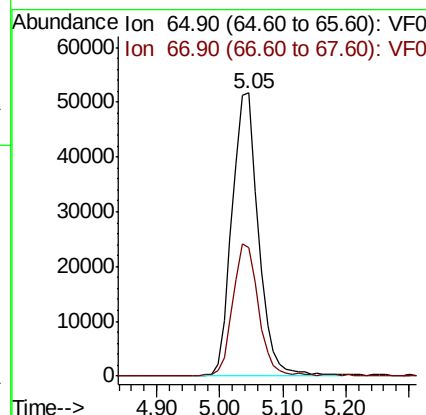
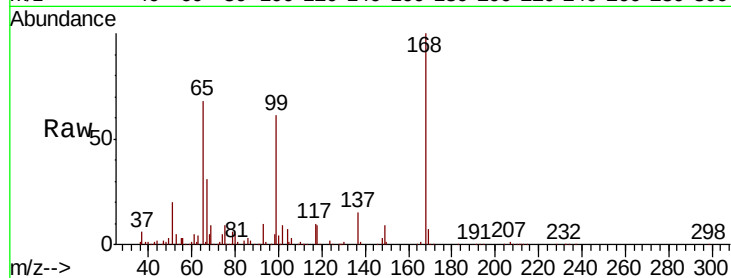
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 150495

Ion Ratio Lower Upper

65 100

67 45.6 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

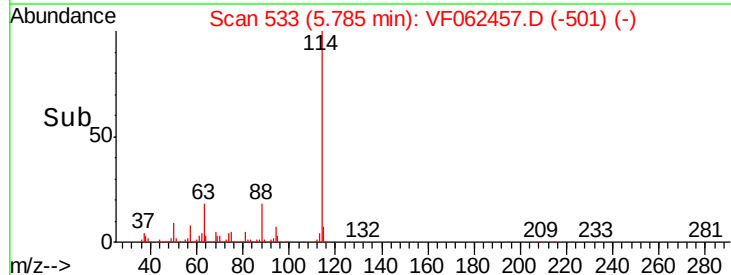
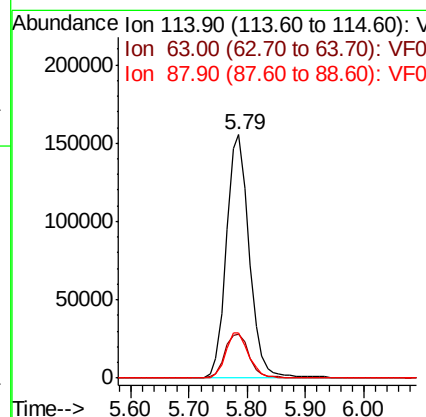
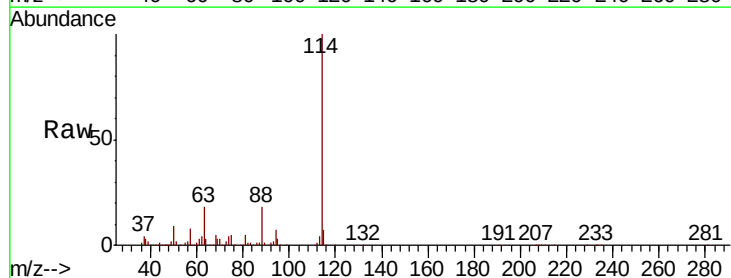
Tgt Ion: 114 Resp: 424475

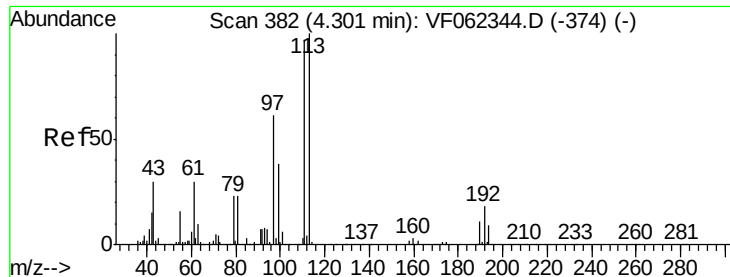
Ion Ratio Lower Upper

114 100

63 18.2 0.0 37.4

88 18.3 0.0 36.4

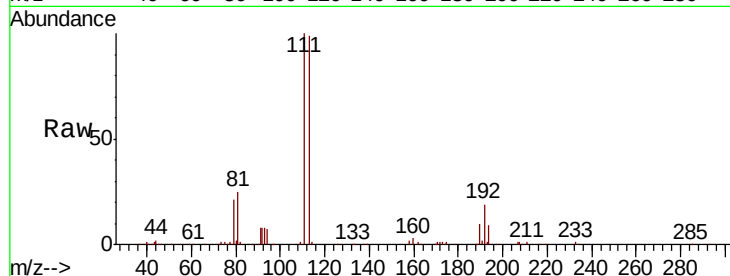




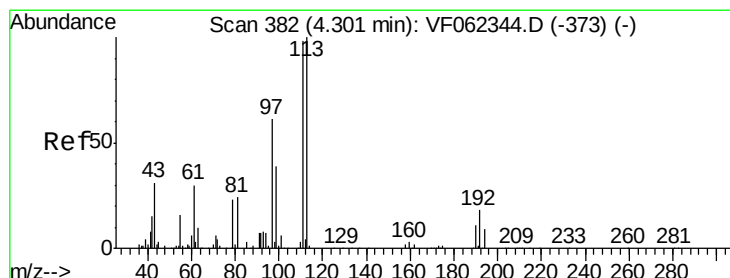
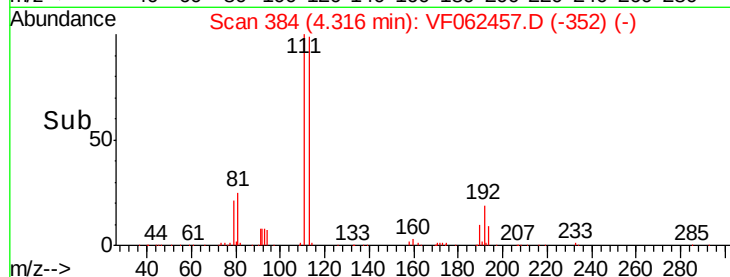
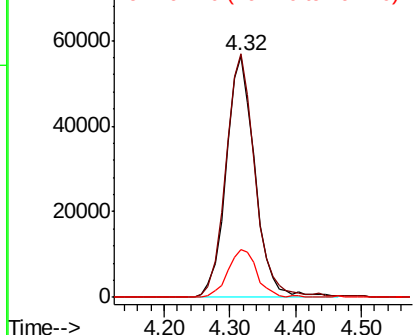
#35
Dibromofluoromethane
Concen: 50.926 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	79.4	119.0
192	20.4	16.0	24.0

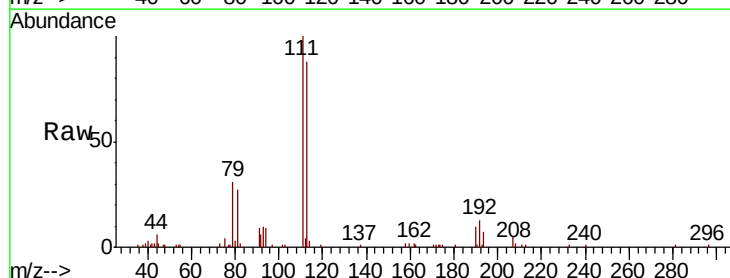


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

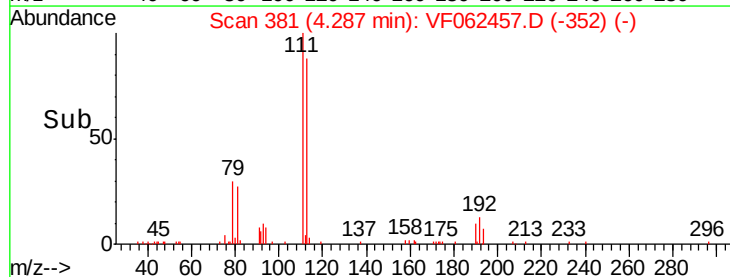
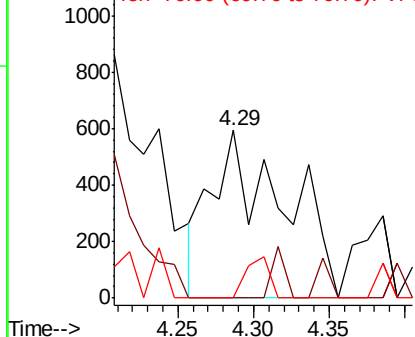


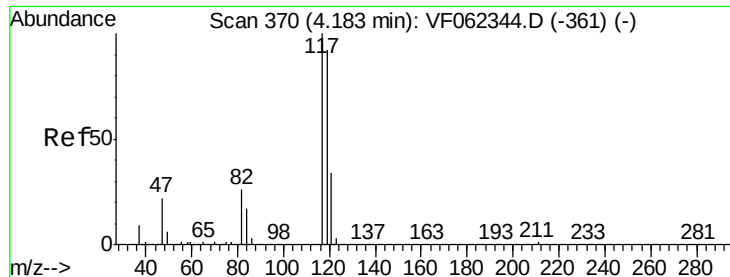
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	0.0	0.0
70	0.0	8.2	12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.18 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

Instrument :

MSVOA_F

ClientSampleId :

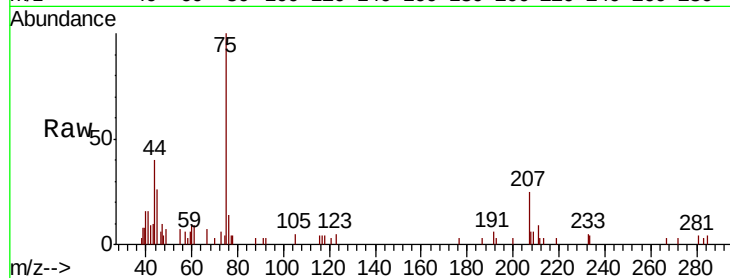
Tot Ion:117 Resp: 78

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

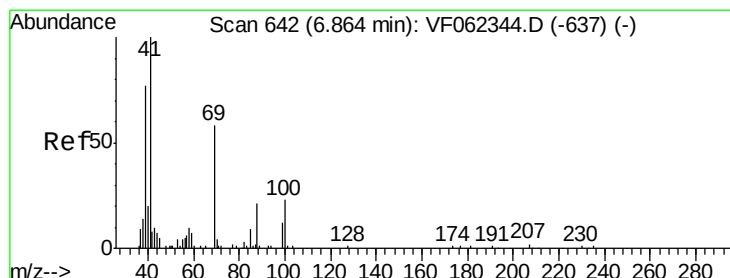
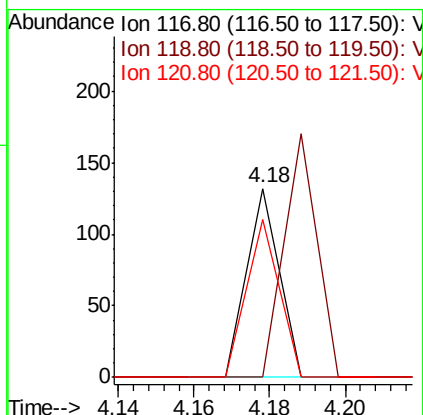
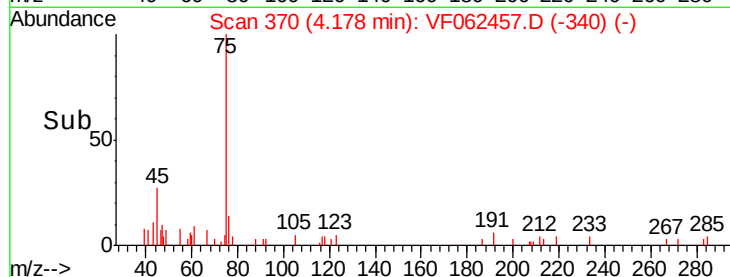
121 83.3 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.74 min Scan# 630

Delta R.T. -0.12 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

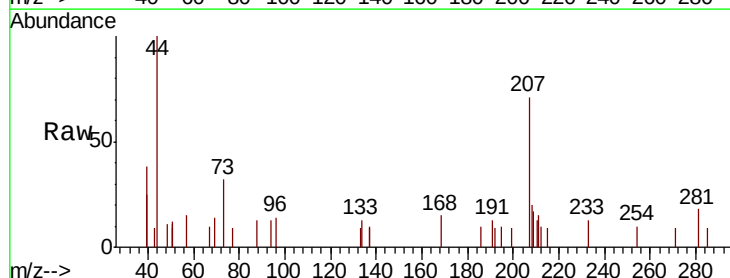
Tgt Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

43 722.7 55.6 83.4#

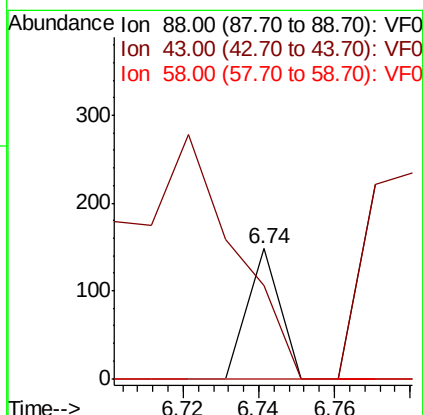
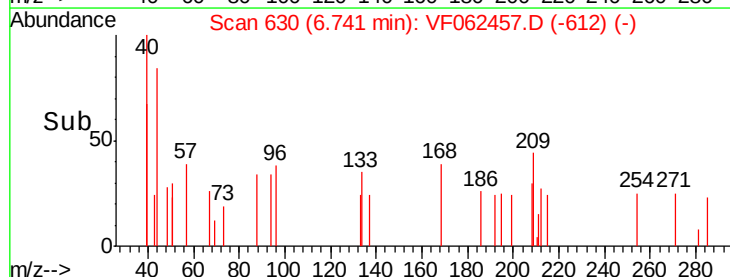
58 0.0 52.8 79.2#

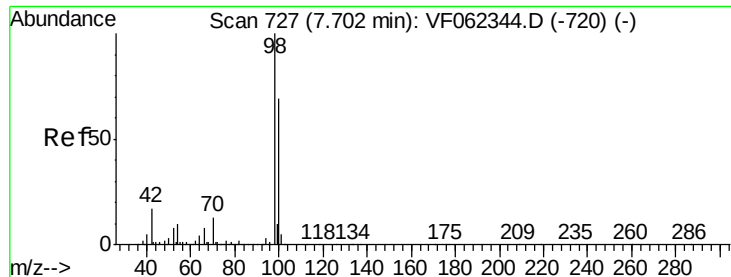


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

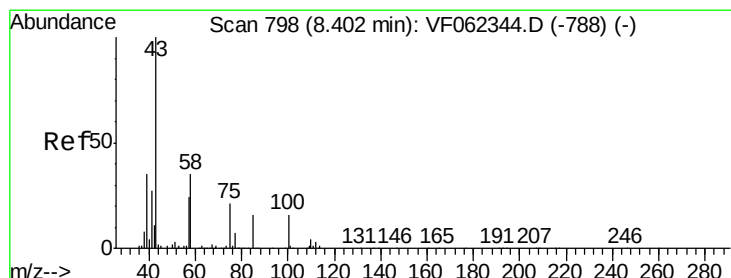
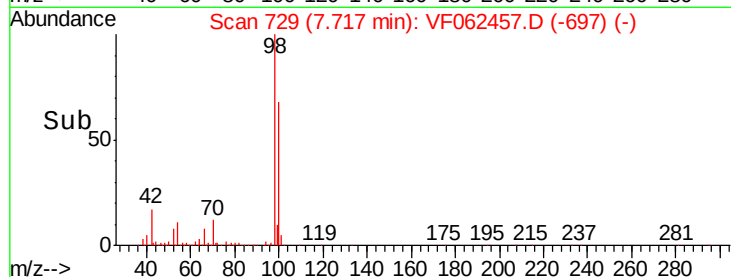
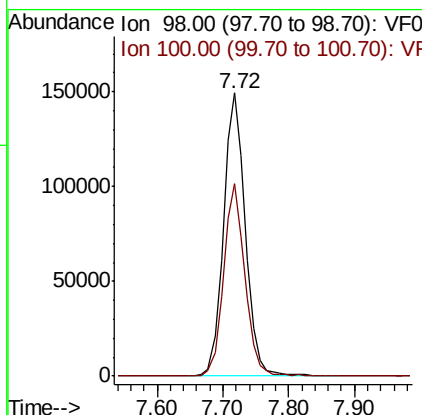
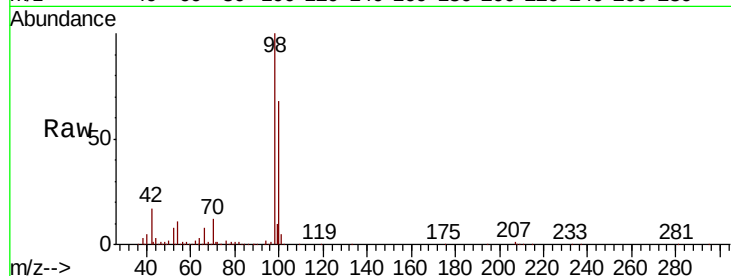




#50
Toluene-d8
Concen: 42.172 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

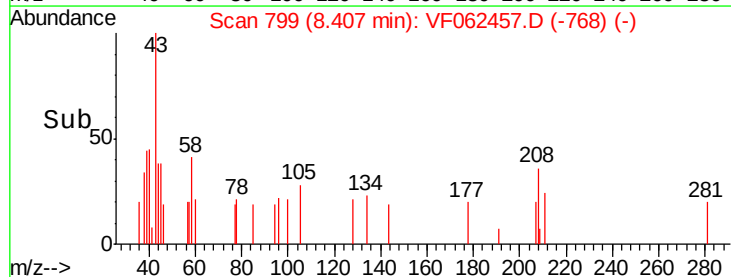
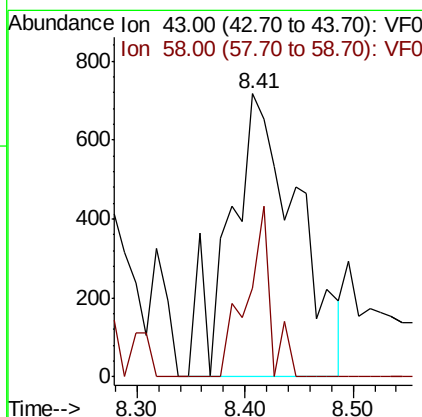
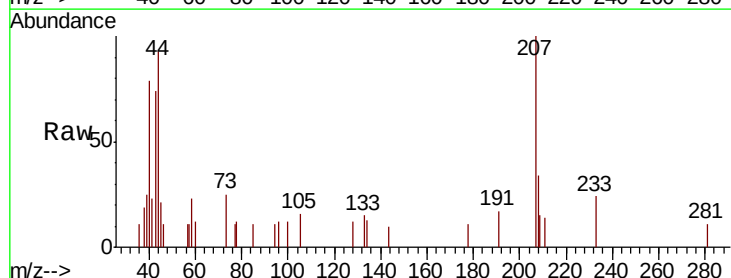
Instrument :
MSVOA_F
ClientSampleId :

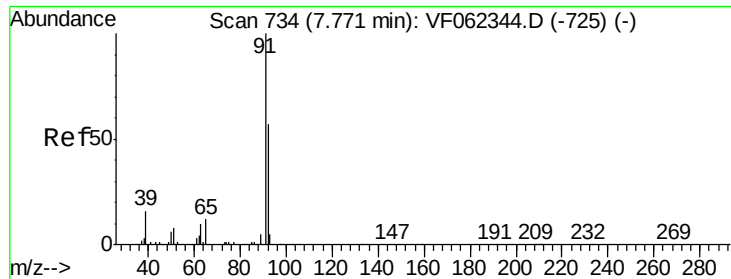
Tot Ion: 98 Resp: 345215
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 2.516 ug/l
RT: 8.41 min Scan# 799
Delta R.T. 0.01 min
Lab File: VF062457.D
Acq: 11 May 2019 13:52

Tgt Ion: 43 Resp: 3162
Ion Ratio Lower Upper
43 100
58 21.2 27.8 41.6#





#52

Toluene

Concen: 1.858 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

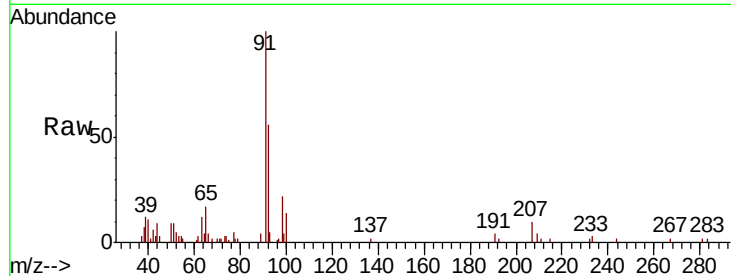
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 9202

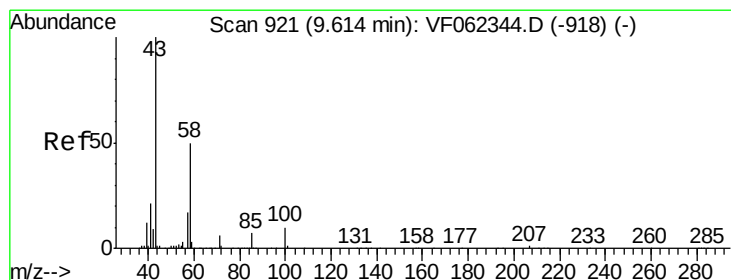
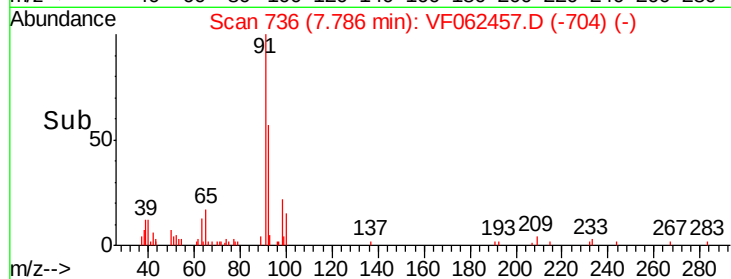
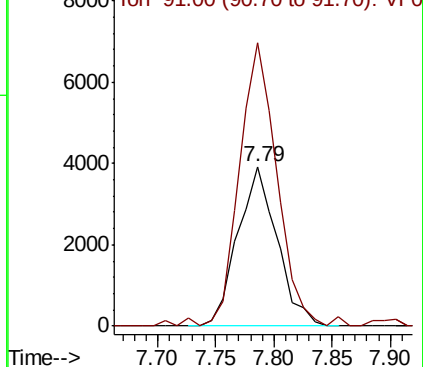
Ion Ratio Lower Upper

92 100

91 168.5 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0
Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 2.616 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.02 min

Lab File: VF062457.D

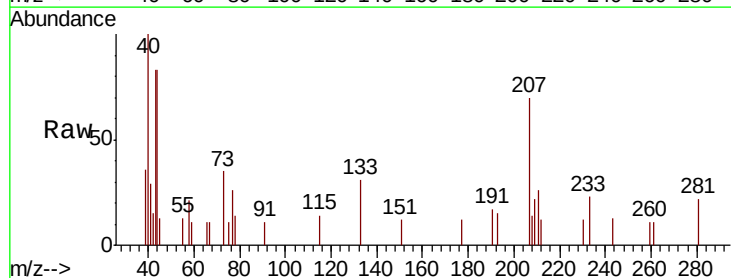
Acq: 11 May 2019 13:52

Tgt Ion: 43 Resp: 2274

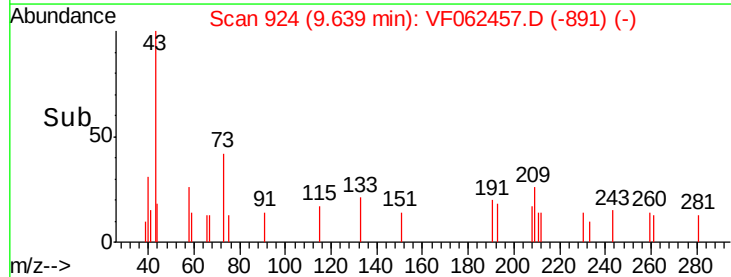
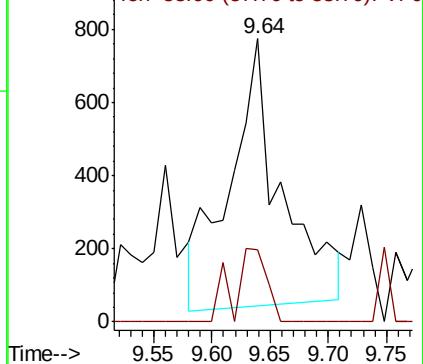
Ion Ratio Lower Upper

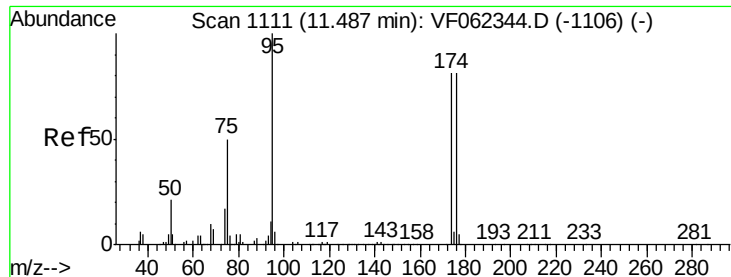
43 100

58 17.4 24.3 73.0#



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





#62

4-Bromofluorobenzene

Concen: 39.903 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

Instrument :

MSVOA_F

ClientSampleId :

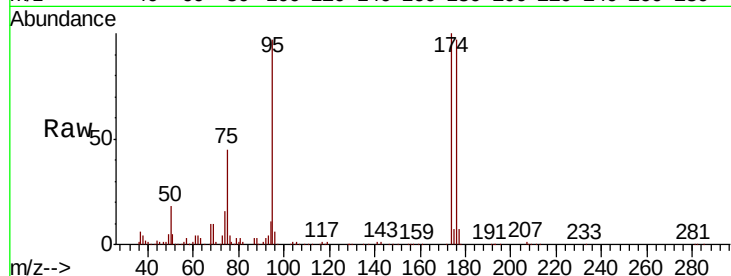
Tot Ion: 95 Resp: 147370

Ion Ratio Lower Upper

95 100

174 99.1 0.0 191.8

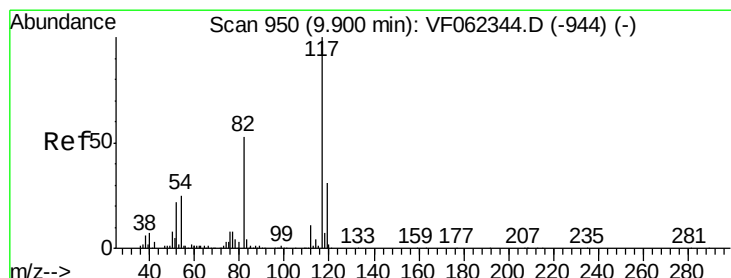
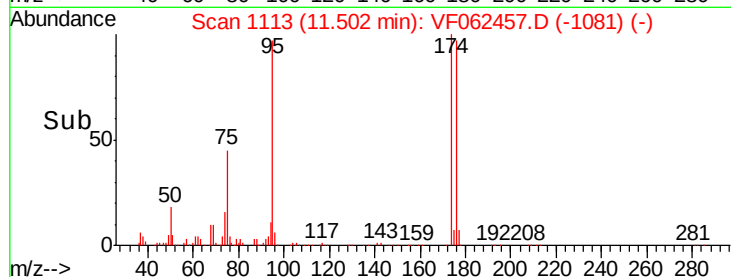
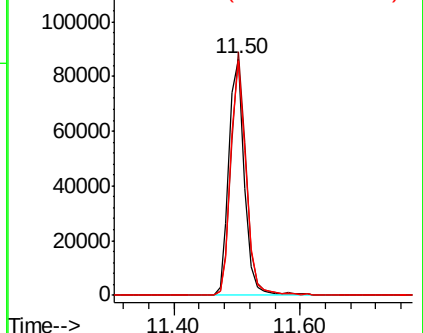
176 97.1 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

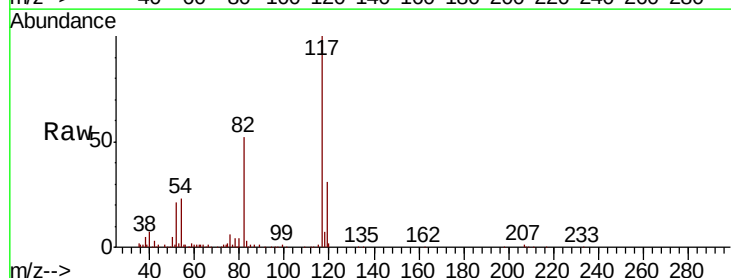
Tgt Ion: 117 Resp: 335474

Ion Ratio Lower Upper

117 100

82 51.8 42.2 63.2

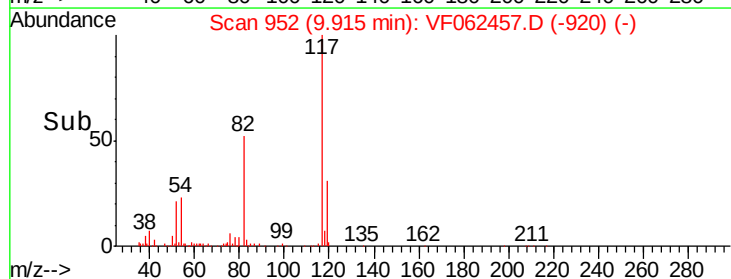
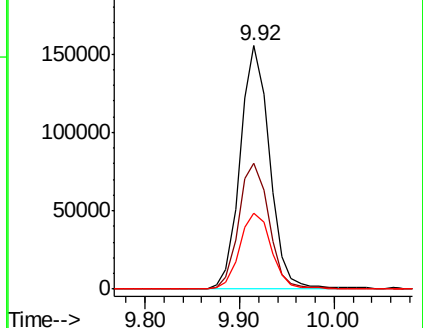
119 31.4 25.0 37.4

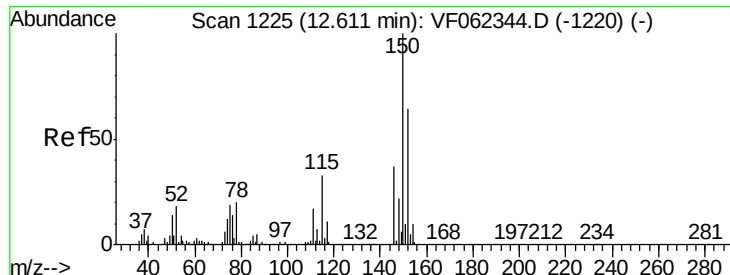


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062457.D

Acq: 11 May 2019 13:52

Instrument :

MSVOA_F

ClientSampleId :

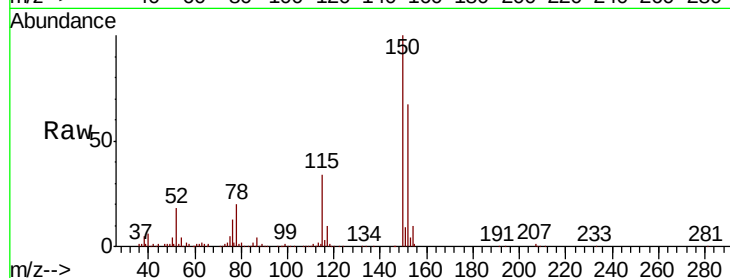
Tot Ion:152 Resp: 182484

Ion Ratio Lower Upper

152 100

115 53.4 26.4 79.2

150 154.1 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

