

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062110.D
 Acq On : 23 Mar 2019 6:46
 Operator : VA/AP
 Sample : K2056-04
 Misc : 9.20g/5mL/MSVOA-F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-10

Quant Time: Mar 25 03:11:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	55309	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.61	114	69567	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.79	117	46375	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	18242	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	10814	26.29	ug/l	-0.02
Spiked Amount				50.000		
Recovery						52.58%
35) Dibromofluoromethane	4.12	113	15905	33.80	ug/l	-0.03
Spiked Amount				50.000		
Recovery						67.60%
50) Toluene-d8	7.56	98	53746	38.26	ug/l	-0.03
Spiked Amount				50.000		
Recovery						76.52%
62) 4-Bromofluorobenzene	11.42	95	16398	30.24	ug/l	-0.02
Spiked Amount				50.000		
Recovery						60.48%

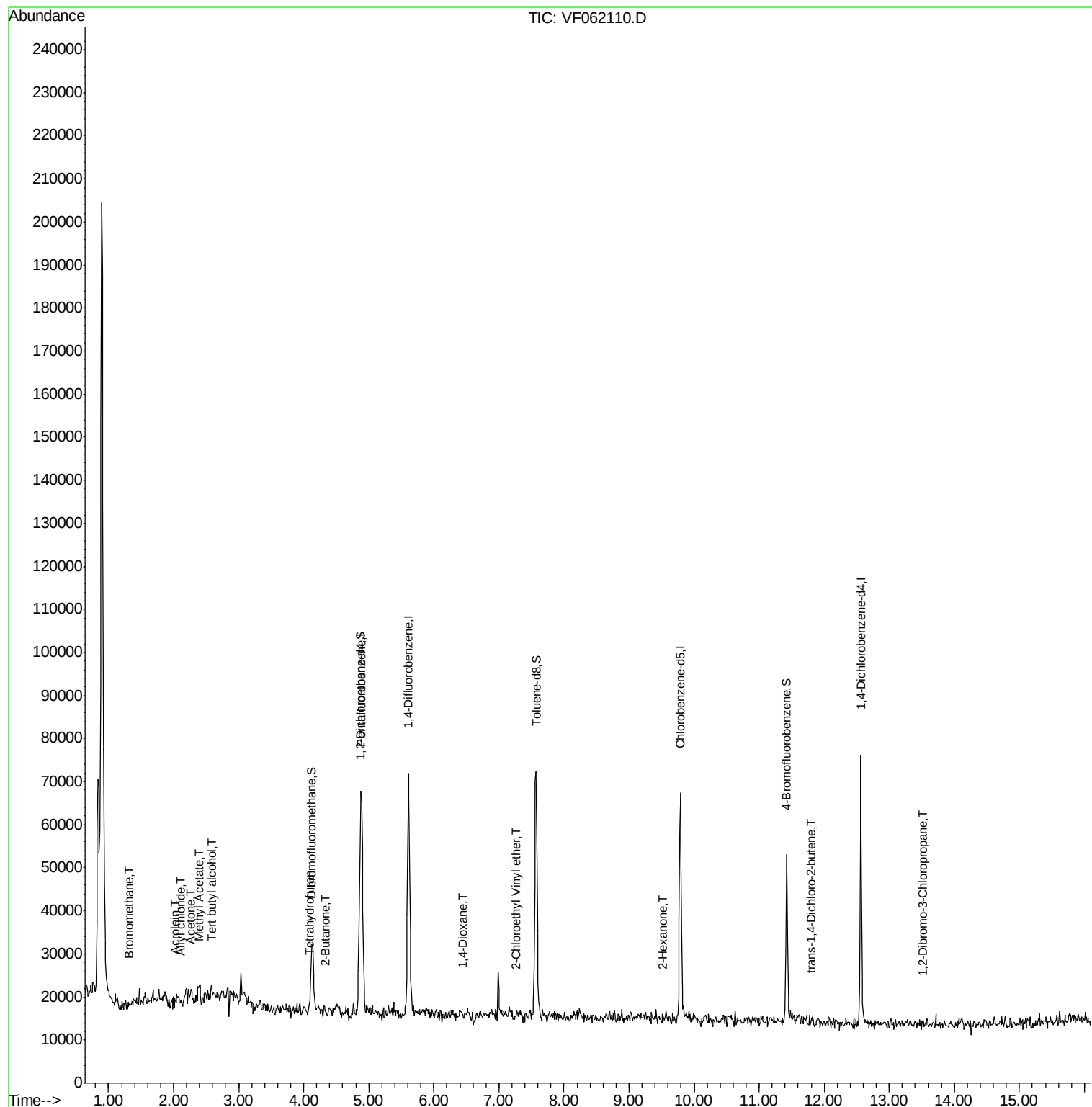
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.32	94	720	1.461	ug/l #	5
11) Tert butyl alcohol	2.58	59	95	4.197	ug/l #	66
13) Acrolein	2.03	56	390	14.328	ug/l #	69
14) Allyl chloride	2.11	41	769	1.351	ug/l #	21
16) Acetone	2.26	43	1884	21.759	ug/l #	49
18) Methyl Acetate	2.38	43	2786	13.489	ug/l #	56
20) Methylene Chloride	2.20	84	1600	Below Cal	#	83
25) 2-Butanone	4.34	43	222	1.228	ug/l #	55
29) Tetrahydrofuran	4.08	42	86	1.094	ug/l #	33
49) 1,4-Dioxane	6.45	88	63	35.956	ug/l #	25
58) 2-Chloroethyl Vinyl ether	7.26	63	62	1.172	ug/l #	48
59) 2-Hexanone	9.51	43	410	2.383	ug/l	79
81) trans-1,4-Dichloro-2-buten	11.80	75	76	1.202	ug/l #	23
92) 1,2-Dibromo-3-Chloropropan	13.51	75	125	3.743	ug/l #	1

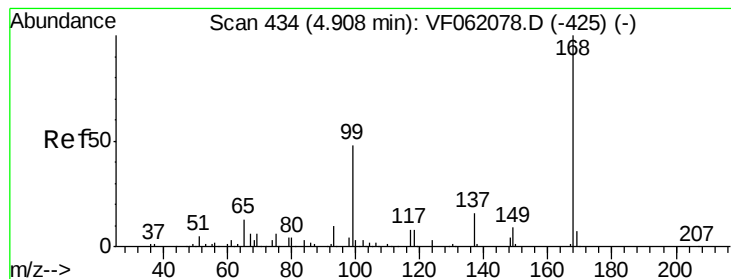
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

MSVOA_F

ClientSampleId :

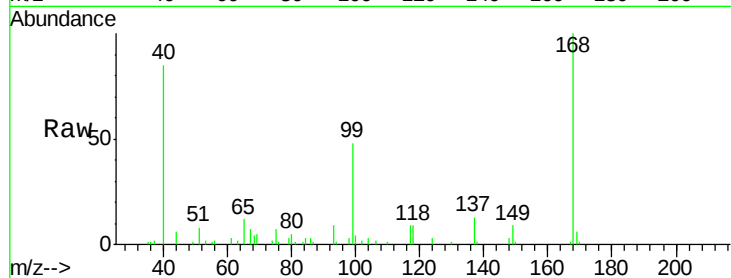
CS-10

Tot Ion:168 Resp: 55309

Ion Ratio Lower Upper

168 100

99 48.2 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

15000

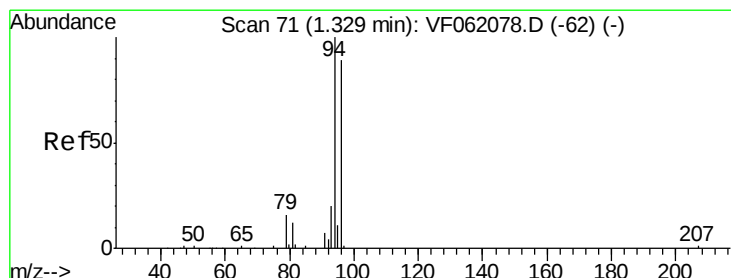
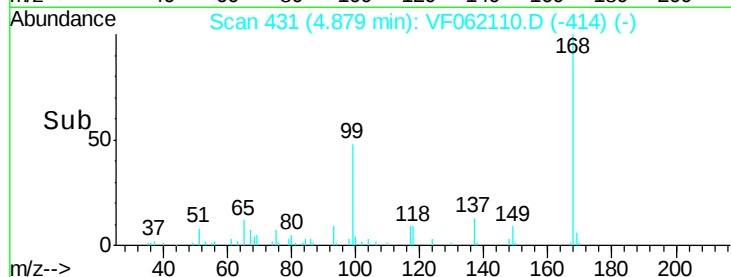
10000

5000

0

Time-->

4.80 4.90 5.00



#5

Bromomethane

Concen: 1.461 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF062110.D

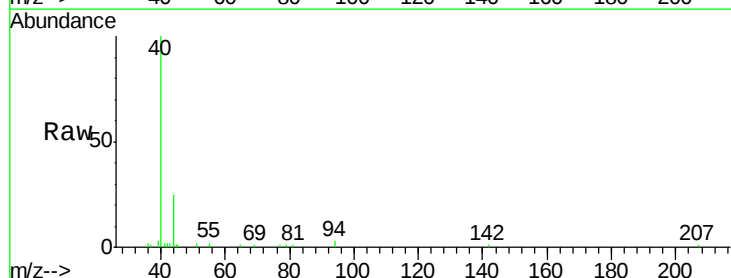
Acq: 23 Mar 2019 6:46

Tgt Ion: 94 Resp: 720

Ion Ratio Lower Upper

94 100

96 0.0 70.9 106.3#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.32

400

300

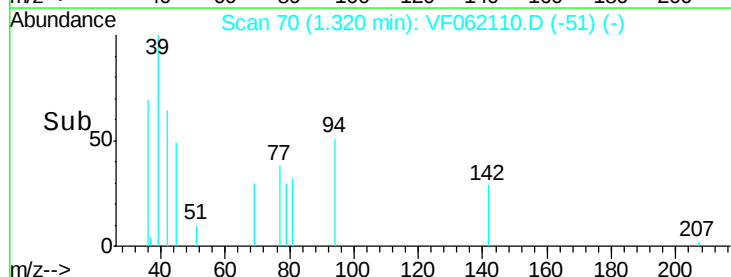
200

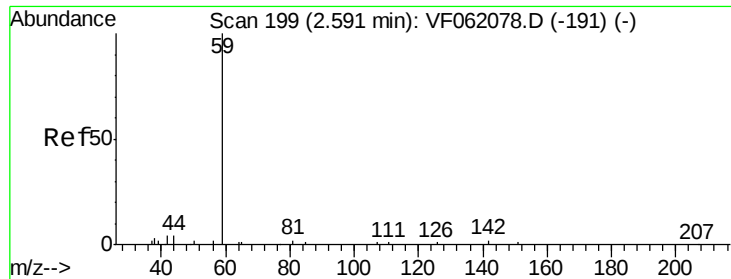
100

0

Time-->

1.30 1.35

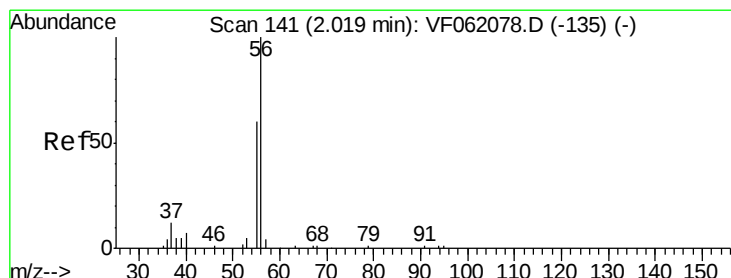
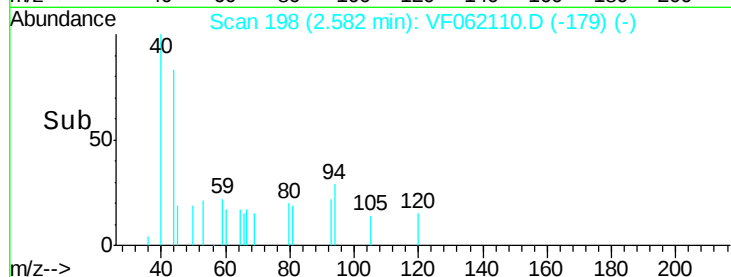
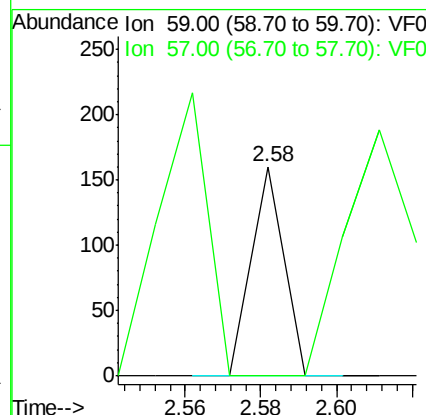
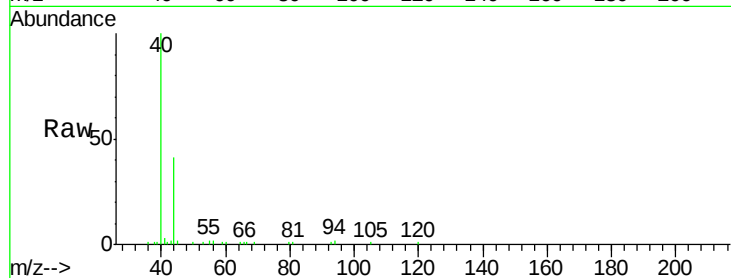




#11
Tert butyl alcohol
Concen: 4.197 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.01 min
Lab File: VF062110.D
Acq: 23 Mar 2019 6:46

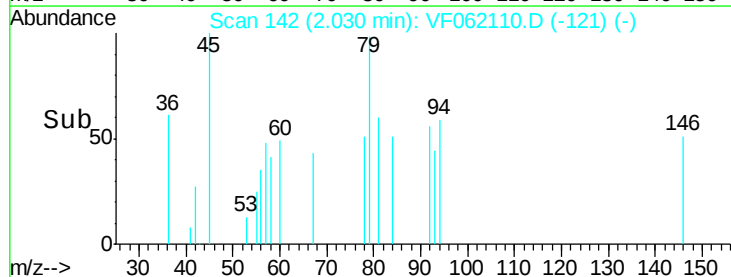
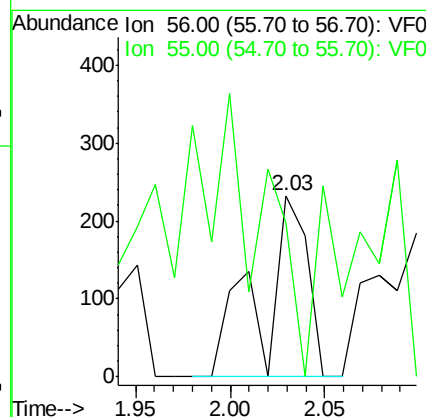
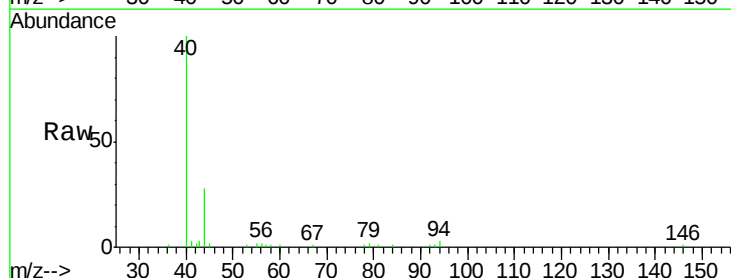
Instrument :
MSVOA_F
ClientSampleId :
CS-10

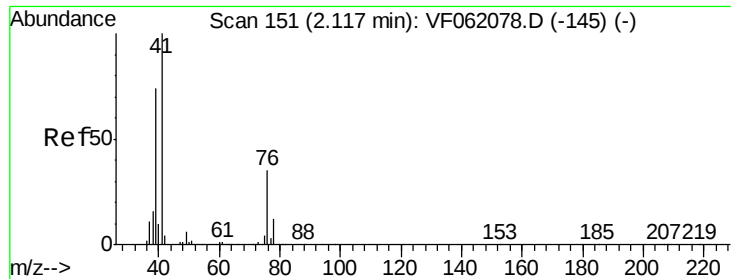
Tot Ion: 59 Resp: 95
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#



#13
Acrolein
Concen: 14.328 ug/l
RT: 2.03 min Scan# 142
Delta R.T. 0.01 min
Lab File: VF062110.D
Acq: 23 Mar 2019 6:46

Tgt Ion: 56 Resp: 390
Ion Ratio Lower Upper
56 100
55 84.5 49.0 73.4#

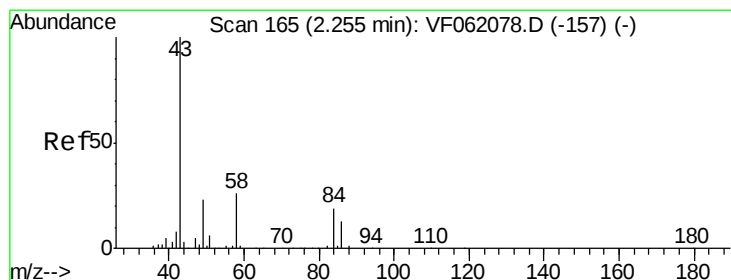
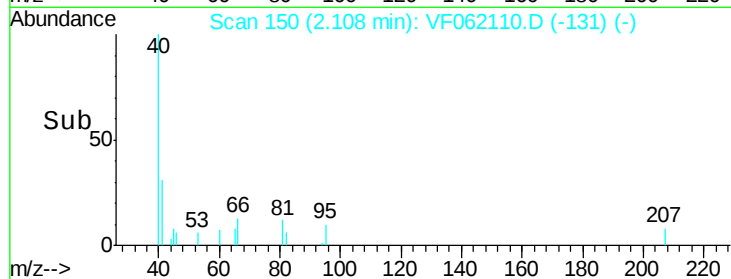
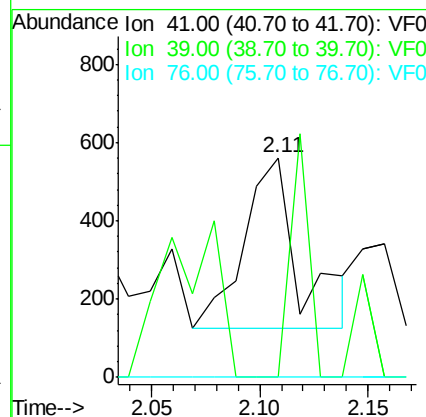
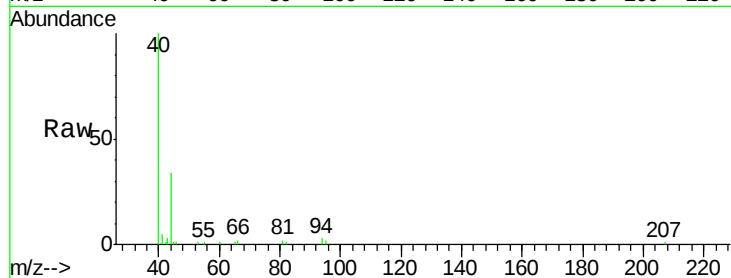




#14
Allvl chloride
Concen: 1.351 ug/l
RT: 2.11 min Scan# 150
Delta R.T. -0.01 min
Lab File: VF062110.D
Acq: 23 Mar 2019 6:46

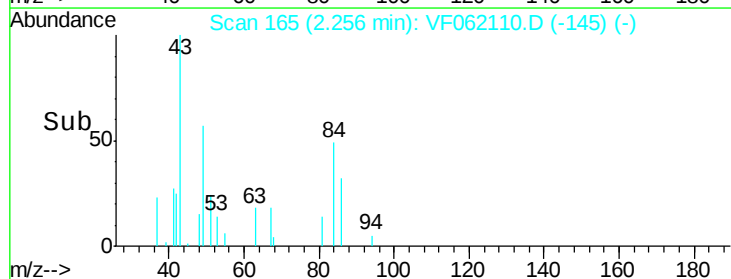
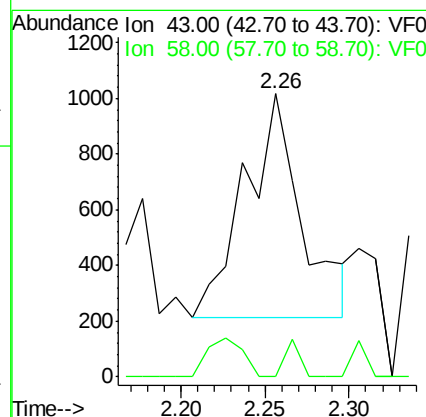
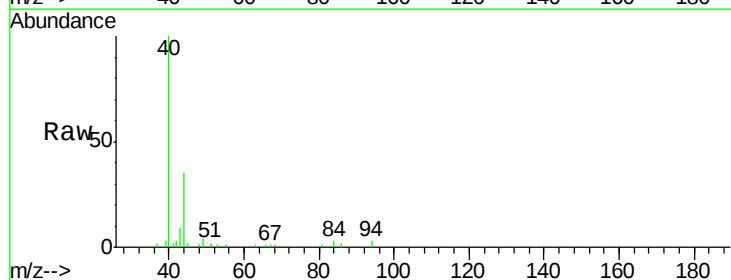
Instrument :
MSVOA_F
ClientSampled :
CS-10

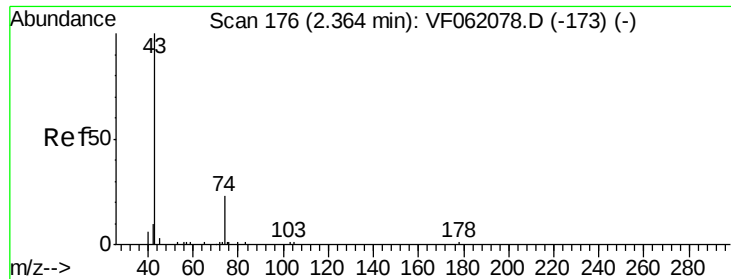
Tot Ion: 41 Resp: 769
Ion Ratio Lower Upper
41 100
39 0.0 59.8 89.8#
76 0.0 30.0 45.0#



#16
Acetone
Concen: 21.759 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.00 min
Lab File: VF062110.D
Acq: 23 Mar 2019 6:46

Tgt Ion: 43 Resp: 1884
Ion Ratio Lower Upper
43 100
58 0.0 20.8 31.2#

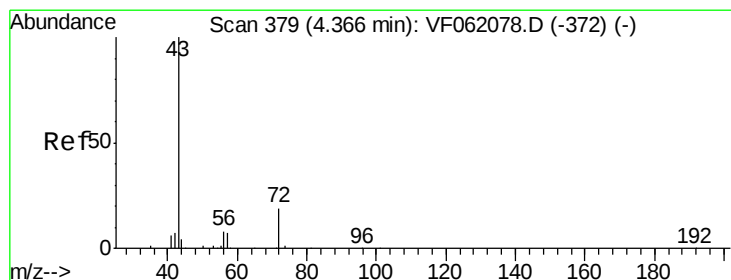
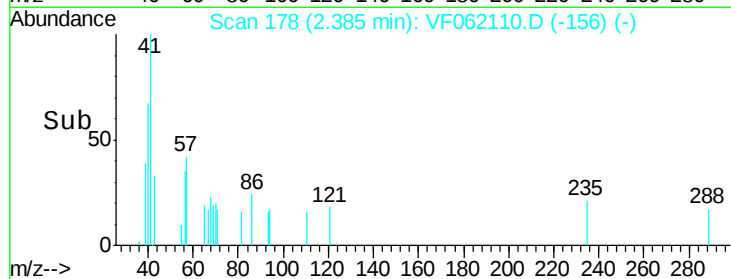
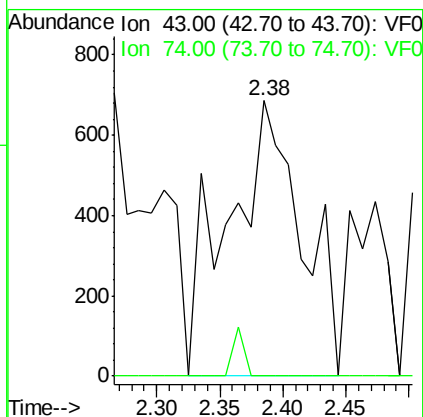
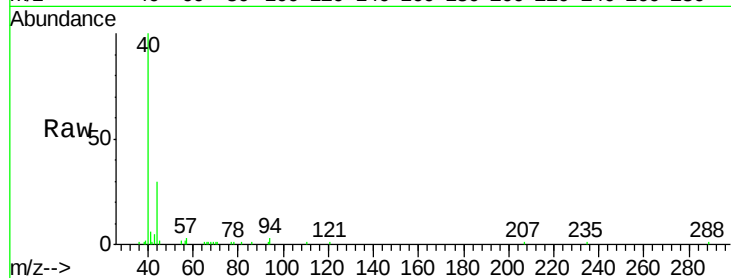




#18
Methyl Acetate
Concen: 13.489 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.02 min
Lab File: VF062110.D
Acq: 23 Mar 2019 6:46

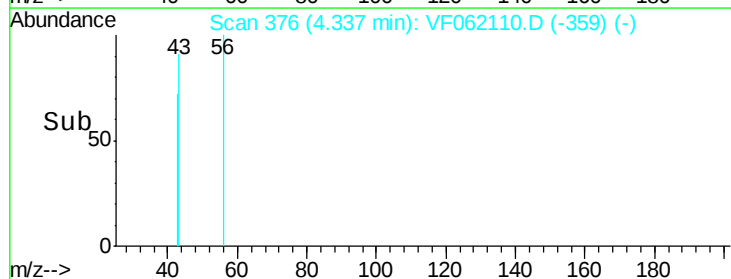
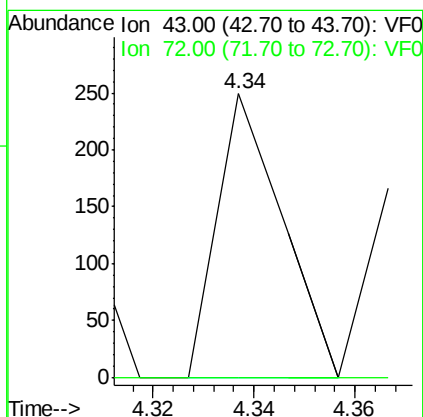
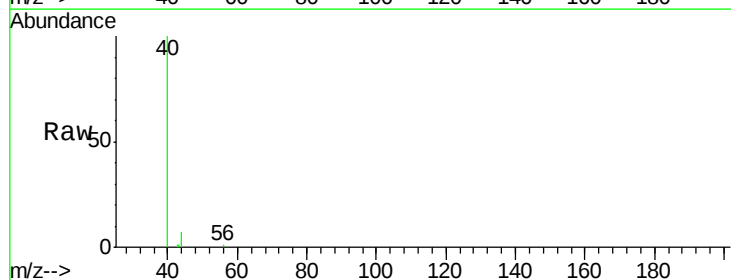
Instrument :
MSVOA_F
ClientSampled :
CS-10

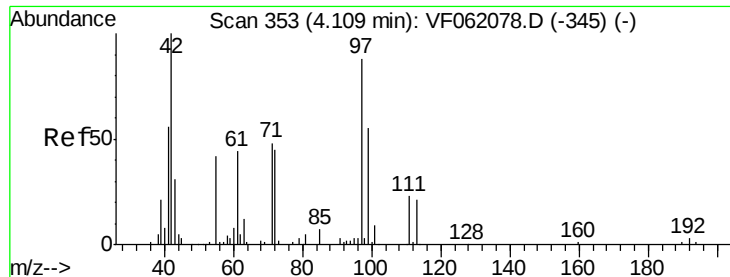
Tot Ion: 43 Resp: 2786
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#25
2-Butanone
Concen: 1.228 ug/l
RT: 4.34 min Scan# 376
Delta R.T. -0.03 min
Lab File: VF062110.D
Acq: 23 Mar 2019 6:46

Tgt Ion: 43 Resp: 222
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#





#29

Tetrahydrofuran

Concen: 1.094 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

MSVOA_F

ClientSampleId :

CS-10

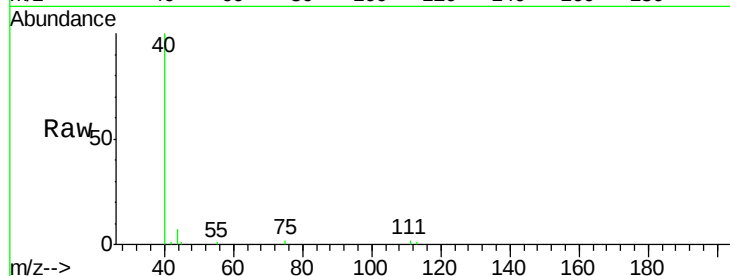
Tot Ion: 42 Resp: 86

Ion Ratio Lower Upper

42 100

72 0.0 33.3 49.9#

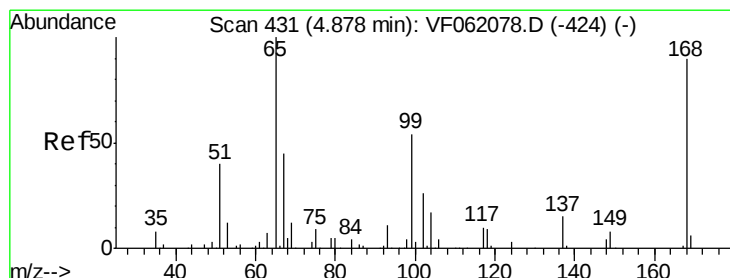
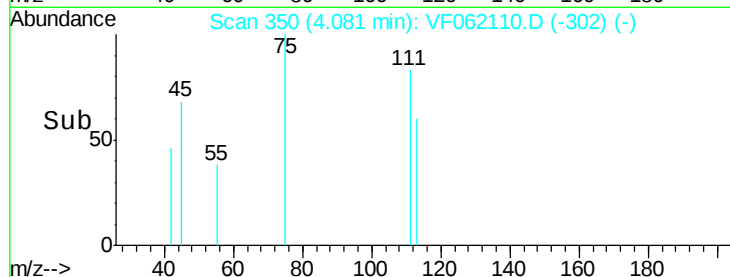
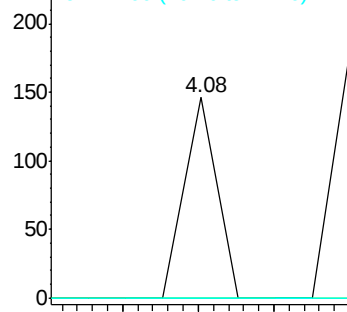
71 0.0 35.0 52.4#



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: 26.286 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF062110.D

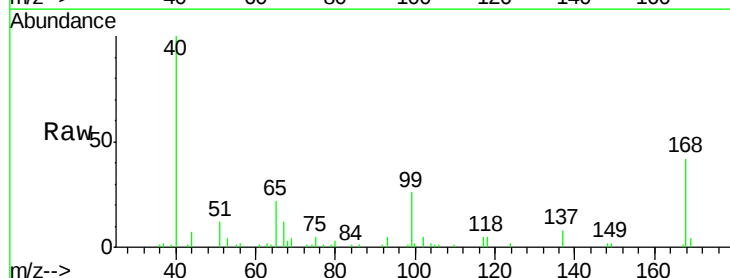
Acq: 23 Mar 2019 6:46

Tgt Ion: 65 Resp: 10814

Ion Ratio Lower Upper

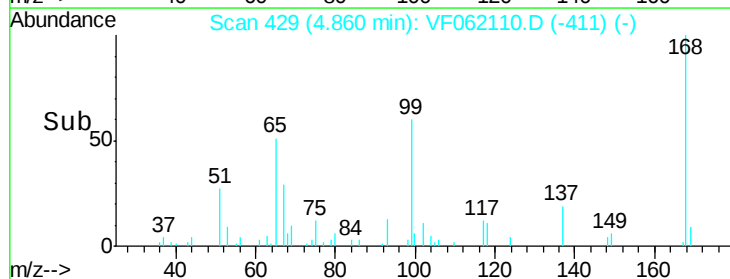
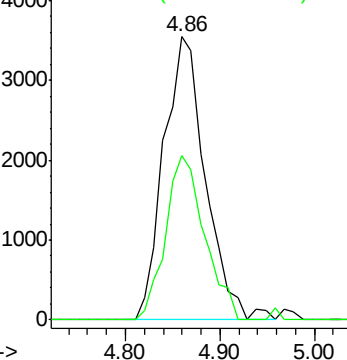
65 100

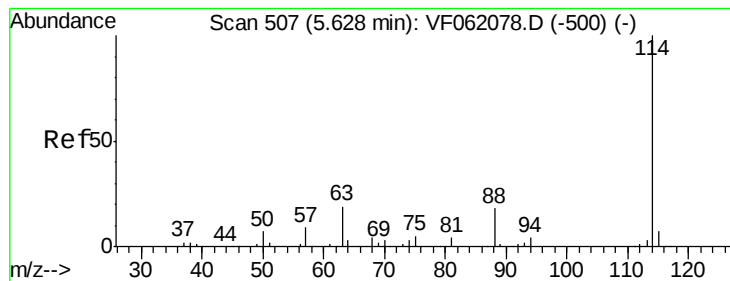
67 58.0 0.0 106.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.02 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

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ClientSampleId :

CS-10

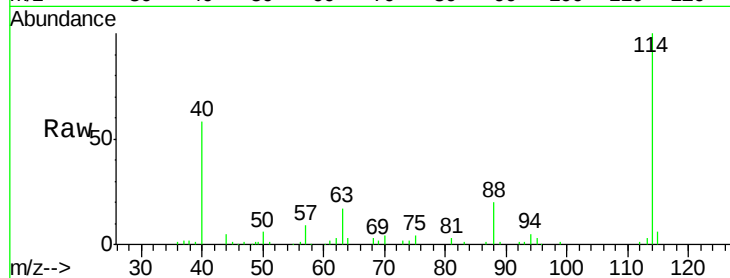
Tot Ion:114 Resp: 69567

Ion Ratio Lower Upper

114 100

63 17.5 0.0 37.8

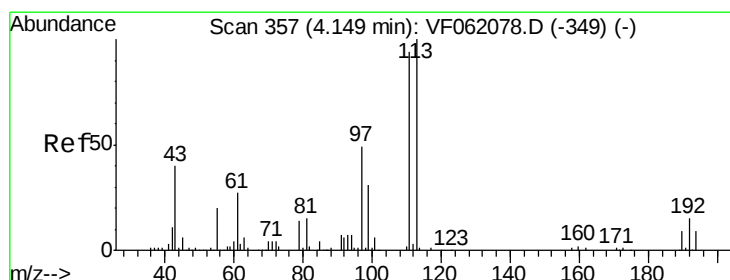
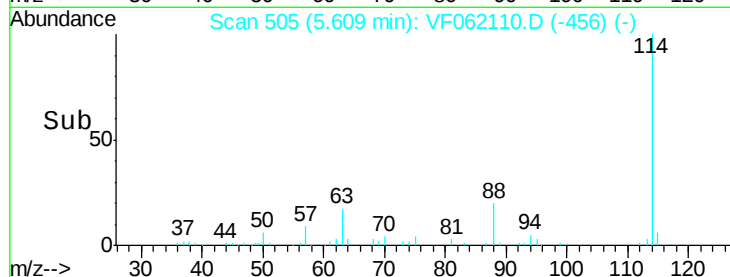
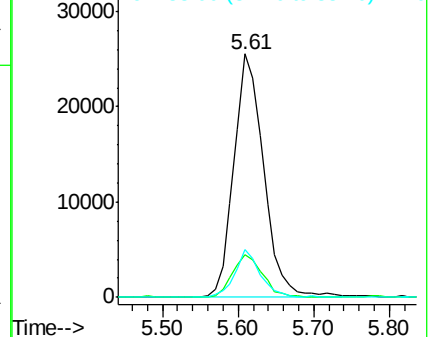
88 19.5 0.0 36.4



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: 33.798 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

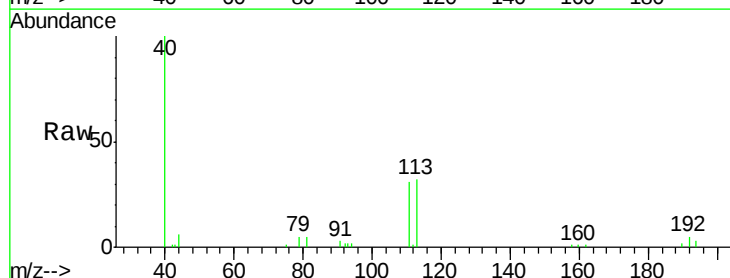
Tgt Ion:113 Resp: 15905

Ion Ratio Lower Upper

113 100

111 95.9 75.4 113.0

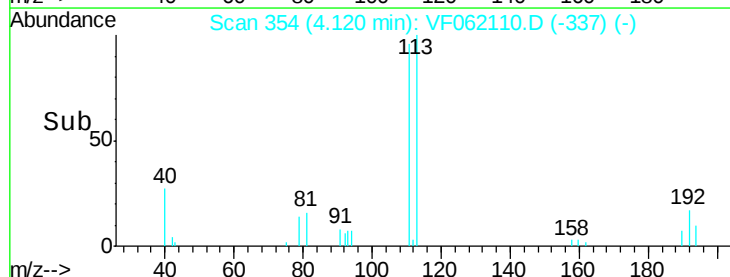
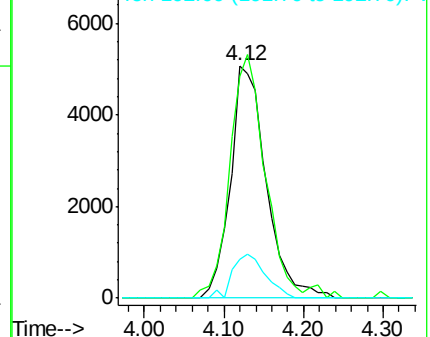
192 16.6 12.3 18.5

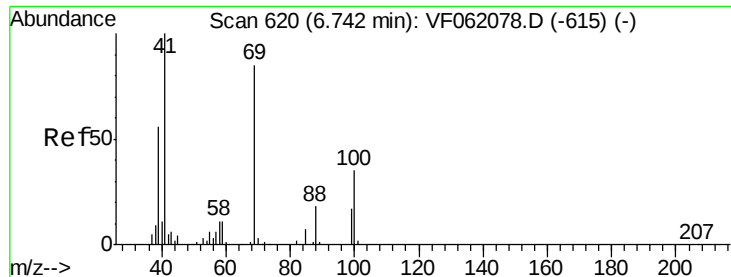


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 35.956 ug/l

RT: 6.45 min Scan# 590

Delta R.T. -0.29 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

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ClientSampled :

CS-10

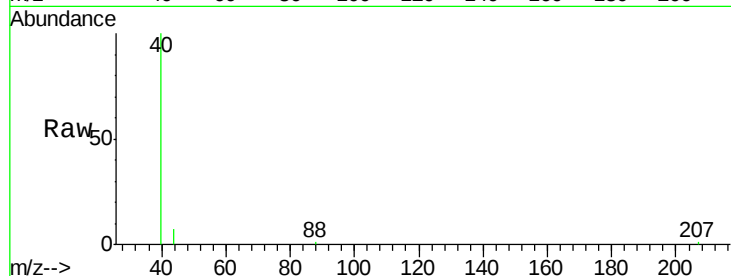
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 35.0 52.4#

58 0.0 49.9 74.9#



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

300

250

200

150

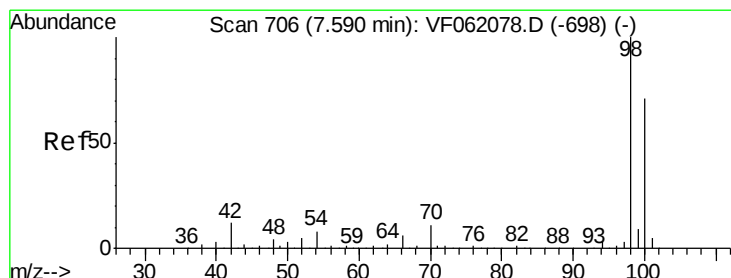
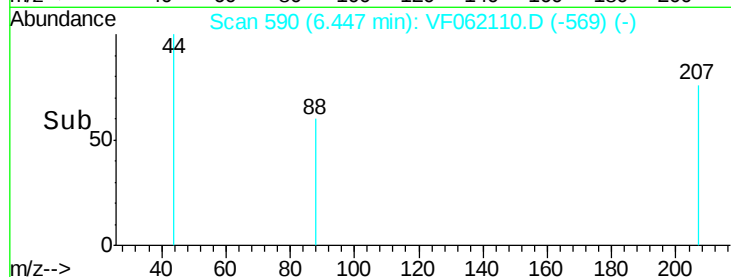
100

50

0

6.42 6.44 6.46 6.48

Time-->



#50

Toluene-d8

Concen: 38.261 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF062110.D

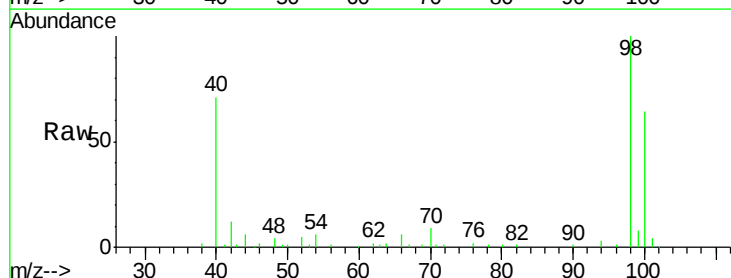
Acq: 23 Mar 2019 6:46

Tgt Ion: 98 Resp: 53746

Ion Ratio Lower Upper

98 100

100 63.6 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

25000

20000

15000

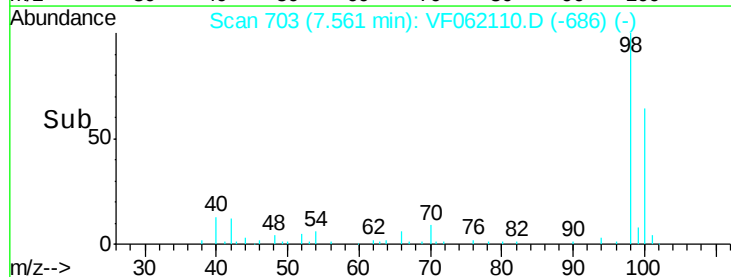
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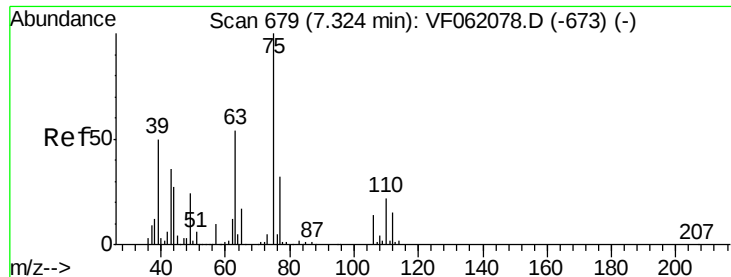
5000

0

7.50 7.56 7.60 7.70

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 1.172 ug/l

RT: 7.26 min Scan# 672

Delta R.T. -0.07 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

MSVOA_F

ClientSampleId :

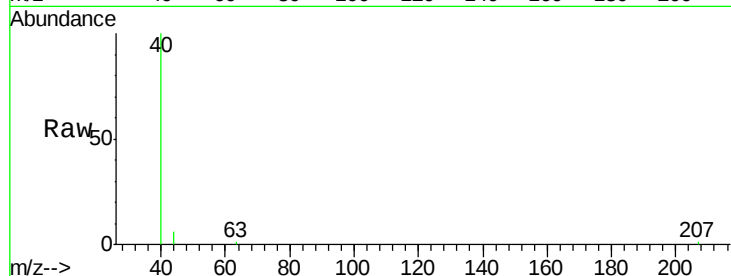
CS-10

Tot Ion: 63 Resp: 62

Ion Ratio Lower Upper

63 100

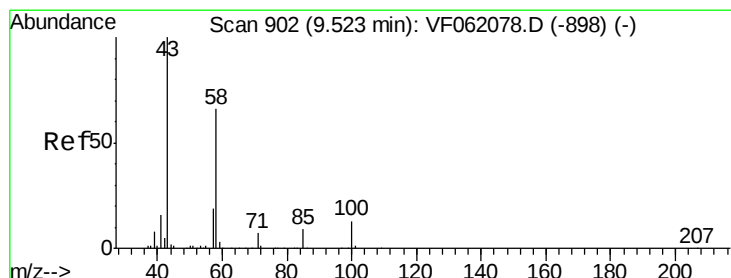
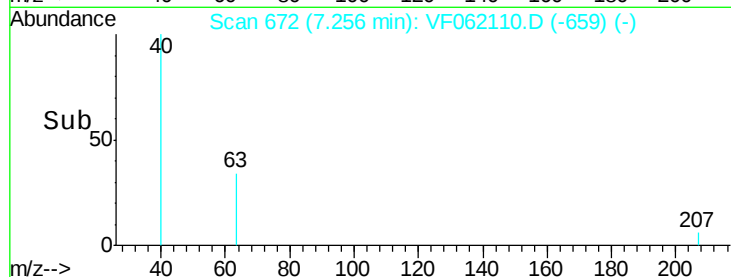
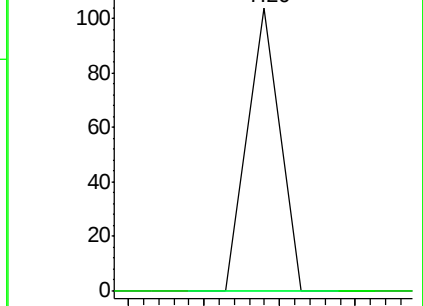
106 0.0 21.5 32.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.26



#59

2-Hexanone

Concen: 2.383 ug/l

RT: 9.51 min Scan# 901

Delta R.T. -0.01 min

Lab File: VF062110.D

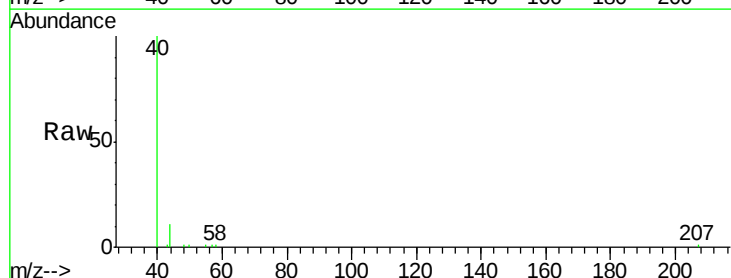
Acq: 23 Mar 2019 6:46

Tgt Ion: 43 Resp: 410

Ion Ratio Lower Upper

43 100

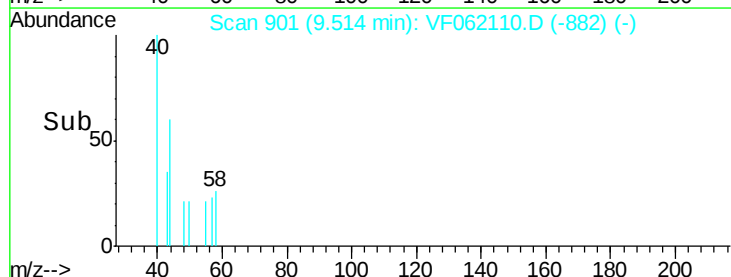
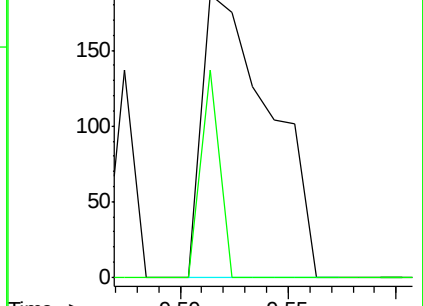
58 73.3 28.8 86.4

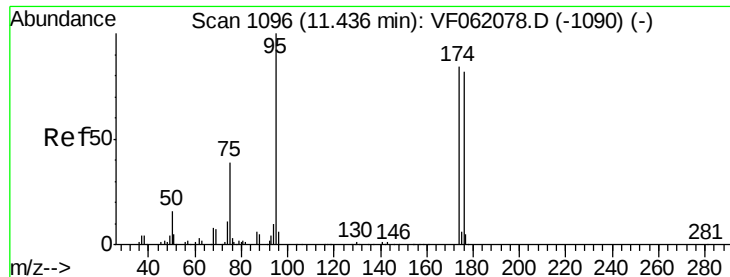


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.51





#62

4-Bromofluorobenzene

Concen: 30.238 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

MSVOA_F

ClientSampleId :

CS-10

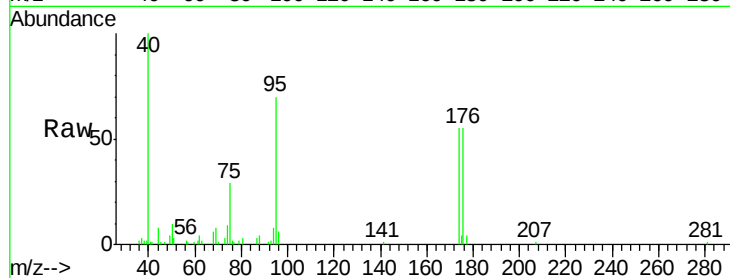
Tot Ion: 95 Resp: 16398

Ion Ratio Lower Upper

95 100

174 79.2 0.0 168.2

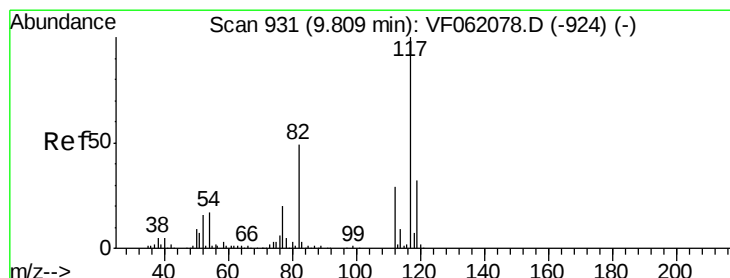
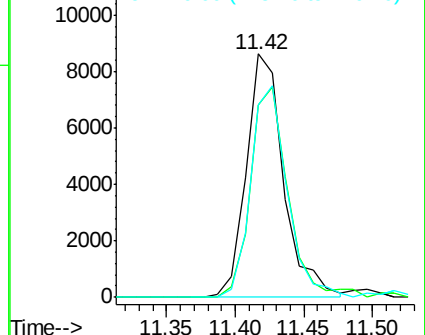
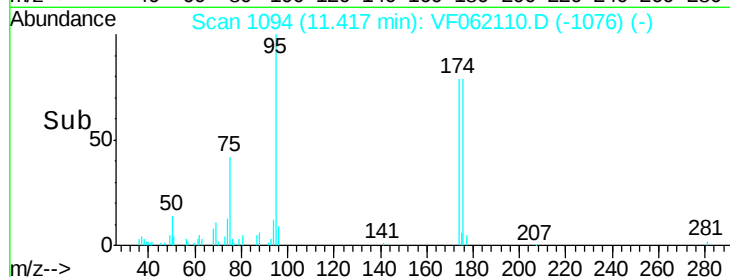
176 79.2 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF062110.D (-1076) (-)

Ion 174.00 (173.70 to 174.70): VF062110.D (-1076) (-)

Ion 176.00 (175.70 to 176.70): VF062110.D (-1076) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. -0.02 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

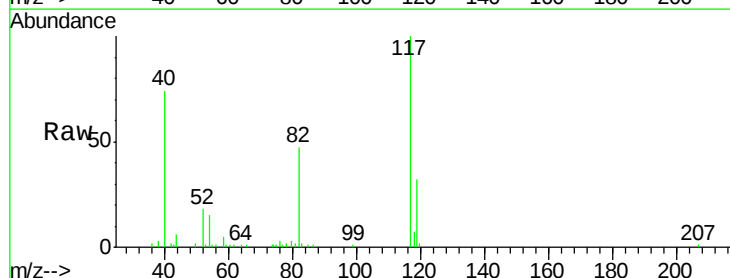
Tgt Ion: 117 Resp: 46375

Ion Ratio Lower Upper

117 100

82 46.8 39.2 58.8

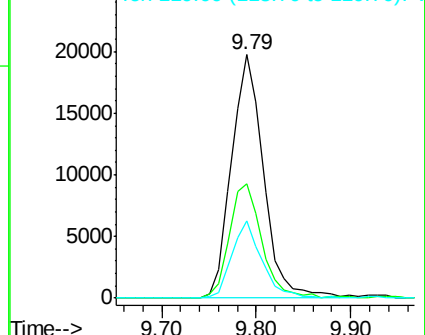
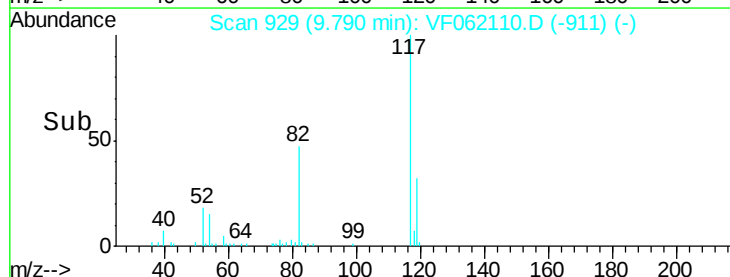
119 31.7 25.4 38.2

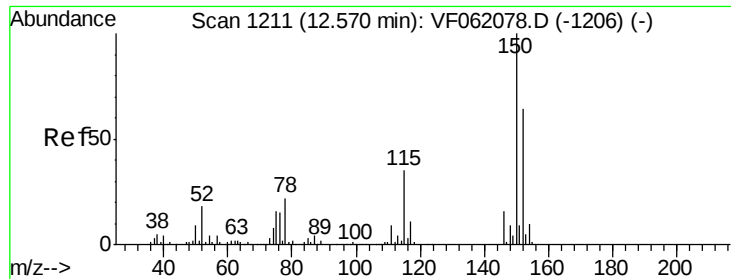


Abundance Ion 117.00 (116.70 to 117.70): VF062110.D (-911) (-)

Ion 82.00 (81.70 to 82.70): VF062110.D (-911) (-)

Ion 119.00 (118.70 to 119.70): VF062110.D (-911) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

MSVOA_F

ClientSampleId :

CS-10

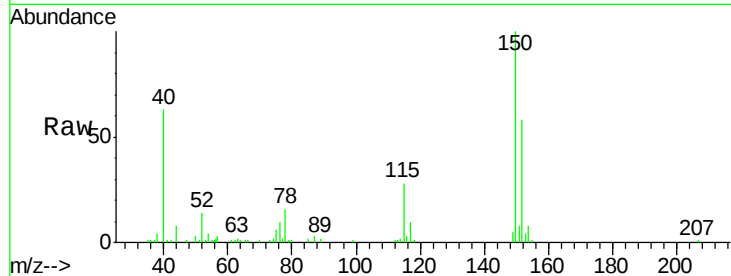
Tot Ion:152 Resp: 18242

Ion Ratio Lower Upper

152 100

115 47.8 27.7 83.1

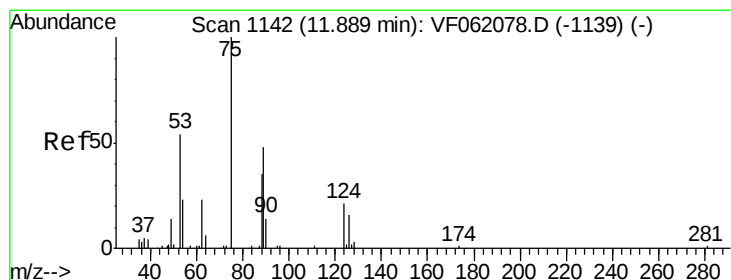
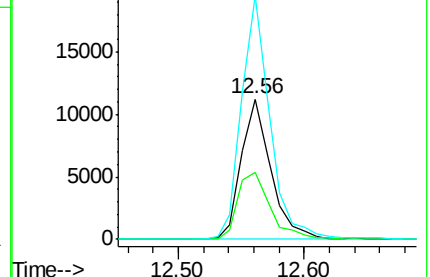
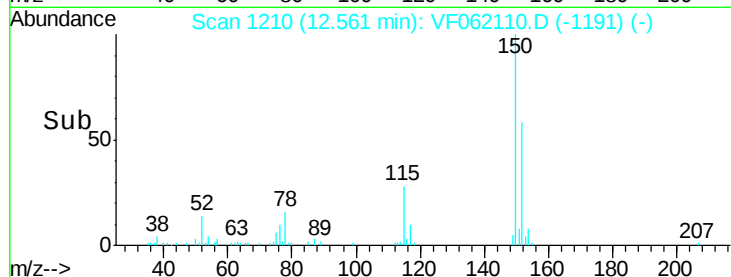
150 173.7 0.0 313.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 1.202 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.09 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

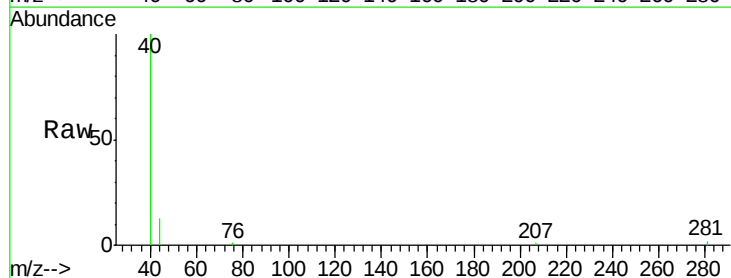
Tgt Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

53 0.0 49.4 74.0#

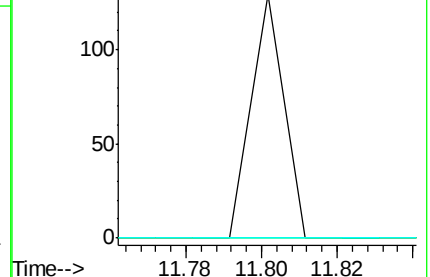
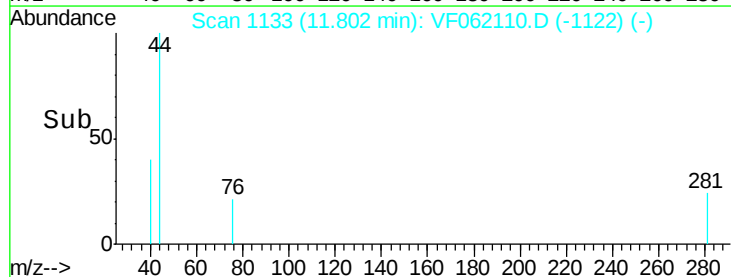
89 0.0 40.6 60.8#

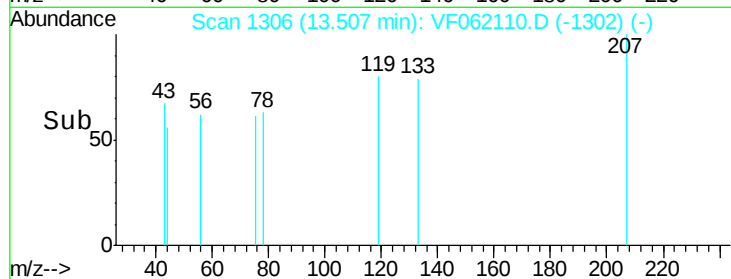
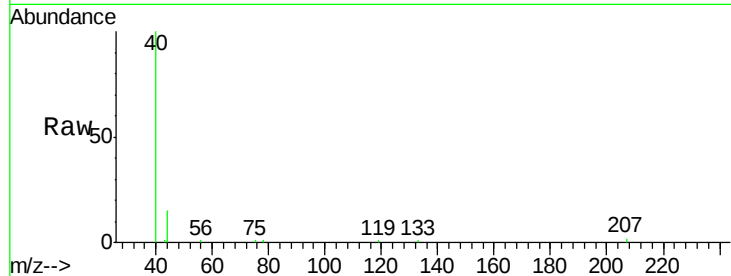
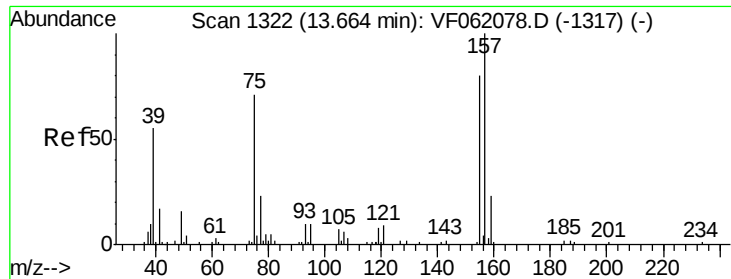


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.743 ug/l

RT: 13.51 min Scan# 1306

Delta R.T. -0.16 min

Lab File: VF062110.D

Acq: 23 Mar 2019 6:46

Instrument :

MSVOA_F

ClientSampleId :

CS-10

Tot Ion: 75 Resp: 125

Ion Ratio Lower Upper

75 100

155 0.0 56.1 168.4#

157 0.0 70.4 211.2#

