

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052319\
 Data File : VF062723.D
 Acq On : 23 May 2019 13:33
 Operator : FY/SY
 Sample : K2647-11
 Misc : 6.25g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 24 02:13:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	734186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1271653	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	897891	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	336681	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	268334	51.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.44%	
35) Dibromofluoromethane	4.31	113	483672	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	
50) Toluene-d8	7.71	98	953495	41.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.08%	
62) 4-Bromofluorobenzene	11.49	95	337094	38.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.52%	

Target Compounds

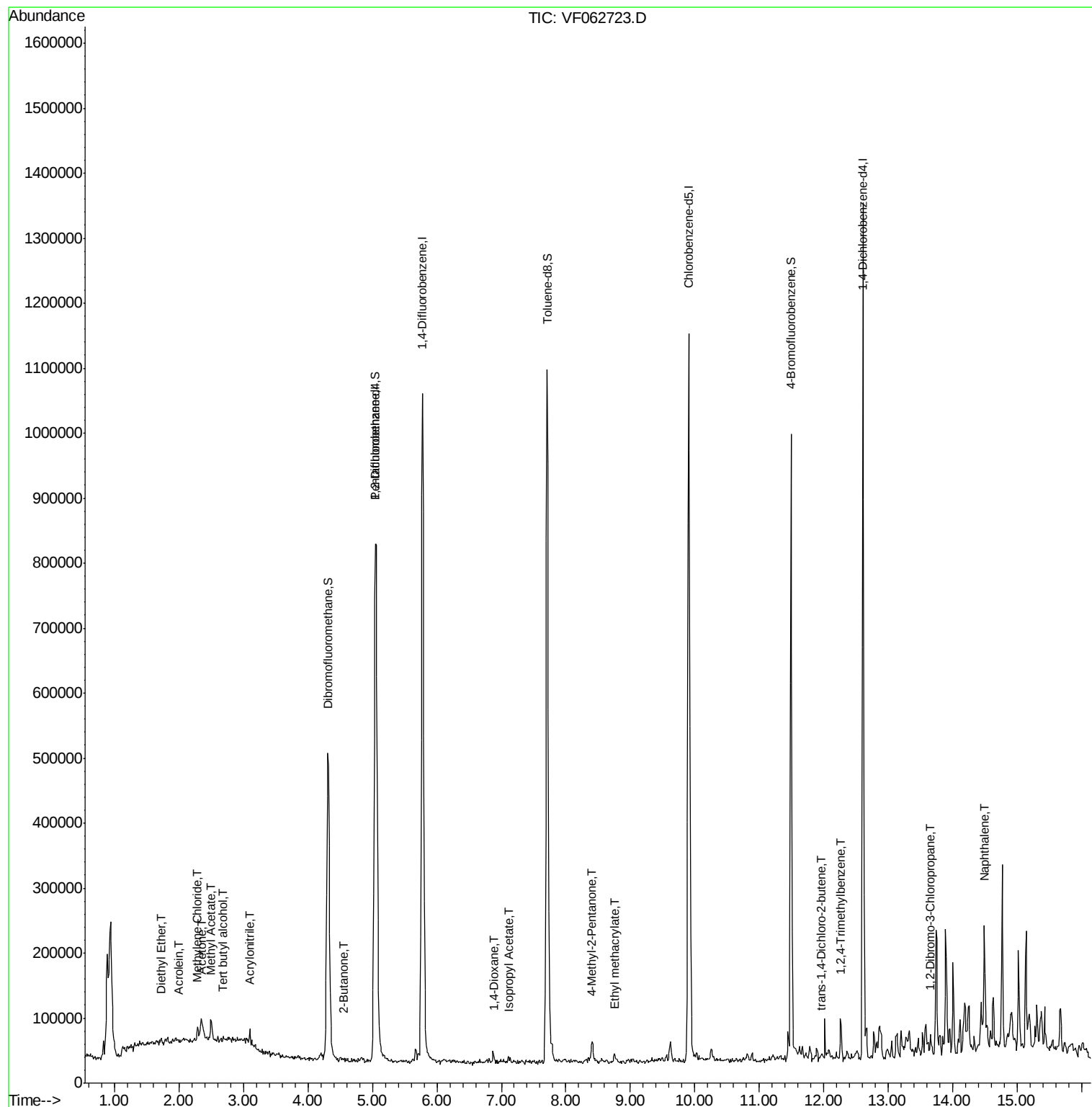
						Qvalue
8) Diethyl Ether	1.73	74	2364	1.049	ug/l	86
11) Tert butyl alcohol	2.68	59	1170	3.416	ug/l #	1
13) Acrolein	2.00	56	1470	4.111	ug/l	92
15) Acrylonitrile	3.10	53	2181	2.257	ug/l	95
16) Acetone	2.35	43	25377	18.854	ug/l #	84
18) Methyl Acetate	2.49	43	16089	7.607	ug/l #	71
20) Methylene Chloride	2.30	84	10550	1.564	ug/l	93
25) 2-Butanone	4.55	43	6475	2.252	ug/l #	78
43) Isopropyl Acetate	7.11	43	13440	1.950	ug/l #	95
49) 1,4-Dioxane	6.89	88	533	11.551	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	35738	7.585	ug/l	95
56) Ethyl methacrylate	8.75	69	9433	1.436	ug/l	91
59) 2-Hexanone	9.62	43	32143	Below Cal		75
74) N-amyl acetate	11.44	43	25570	Below Cal	#	93
81) trans-1,4-Dichloro-2-buten	11.96	75	2967	2.060	ug/l #	39
84) 1,2,4-Trimethylbenzene	12.26	105	32960	1.760	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.65	75	1802	3.063	ug/l #	1
95) Naphthalene	14.49	128	57238	4.550	ug/l #	94

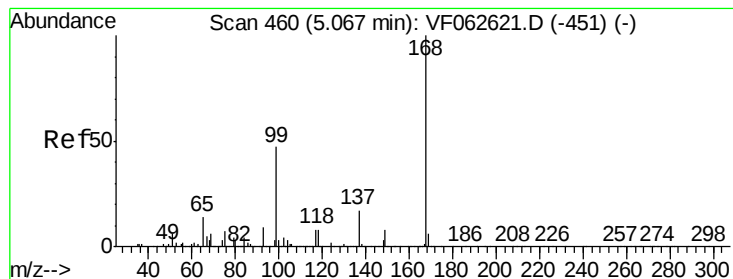
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

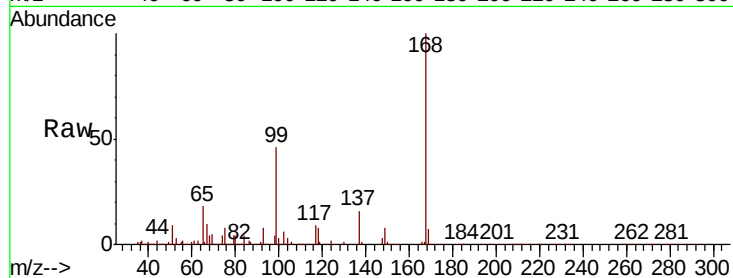
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 734186

Ion Ratio Lower Upper

168 100

99 46.1 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

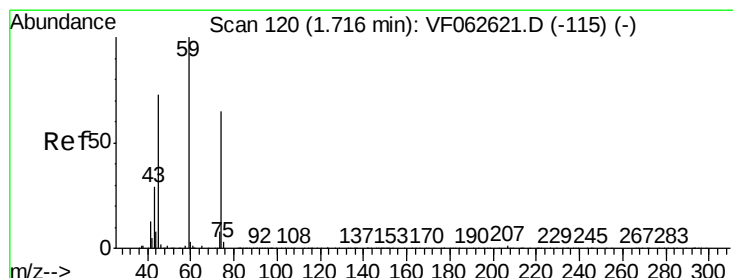
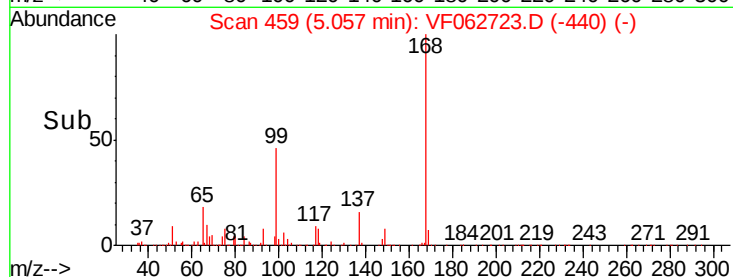
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.049 ug/l

RT: 1.73 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062723.D

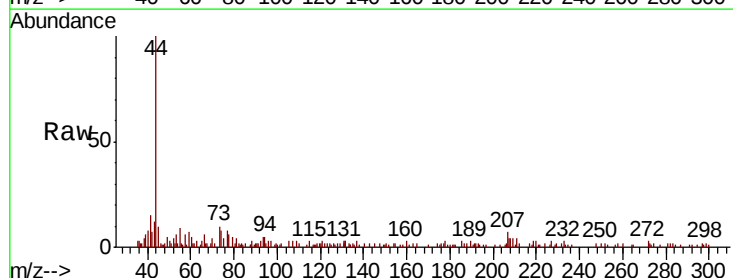
Acq: 23 May 2019 13:33

Tgt Ion: 74 Resp: 2364

Ion Ratio Lower Upper

74 100

45 129.3 57.0 170.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

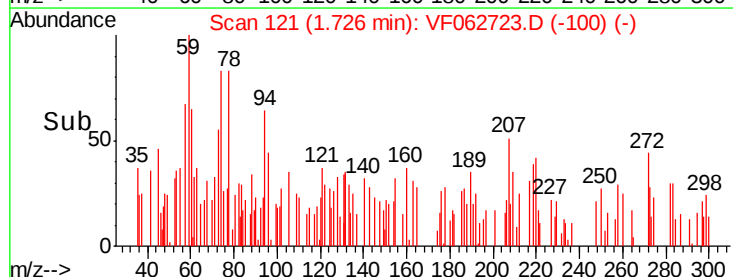
1500

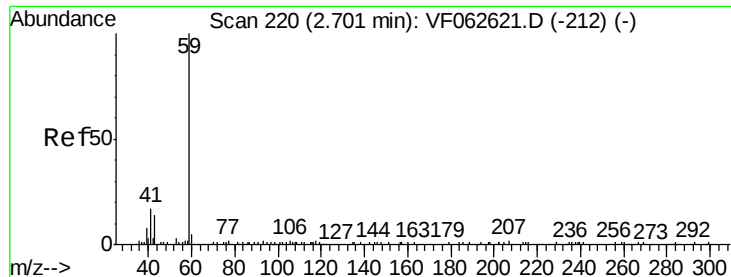
1000

500

0

Time-->

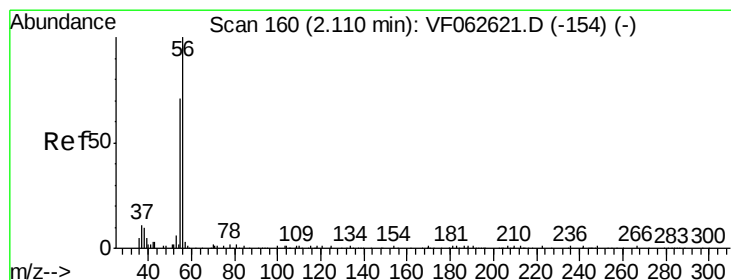
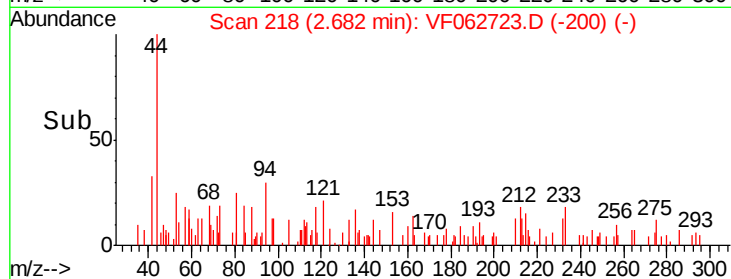
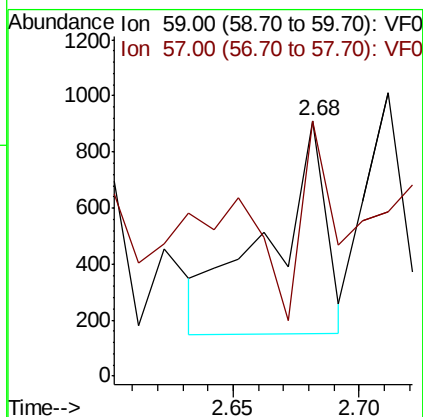
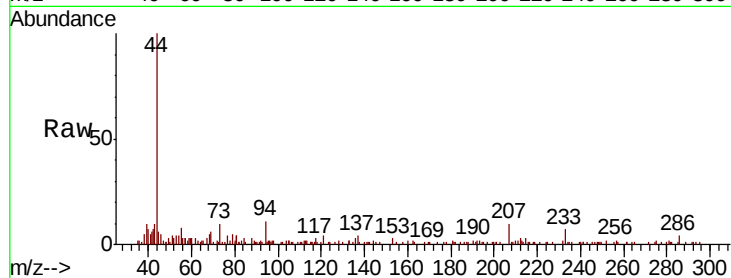




#11
Tert butyl alcohol
Concen: 3.416 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.02 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

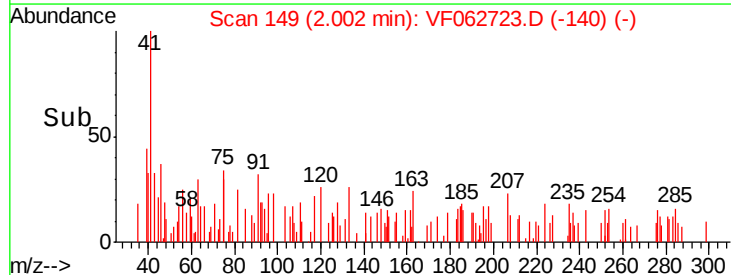
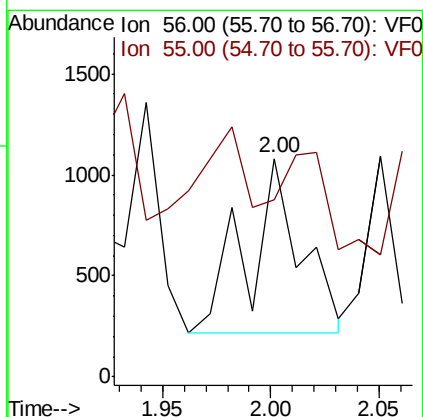
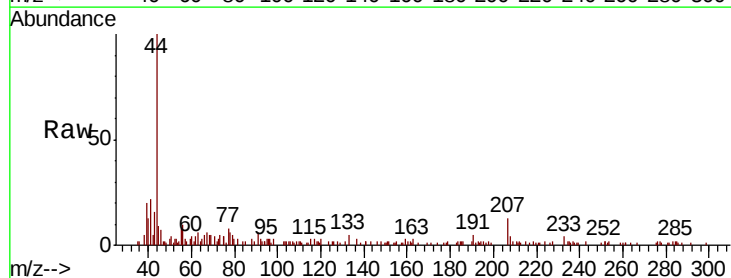
Instrument :
MSVOA_F
ClientSampled :

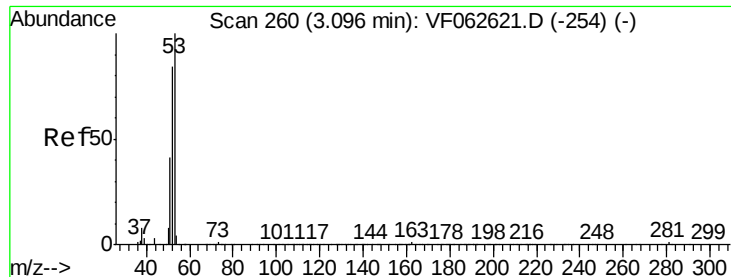
Tot Ion: 59 Resp: 1170
Ion Ratio Lower Upper
59 100
57 99.6 9.3 13.9#



#13
Acrolein
Concen: 4.111 ug/l
RT: 2.00 min Scan# 149
Delta R.T. -0.11 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

Tgt Ion: 56 Resp: 1470
Ion Ratio Lower Upper
56 100
55 80.9 59.4 89.0





#15

Acrylonitrile

Concen: 2.257 ug/l

RT: 3.10 min Scan# 260

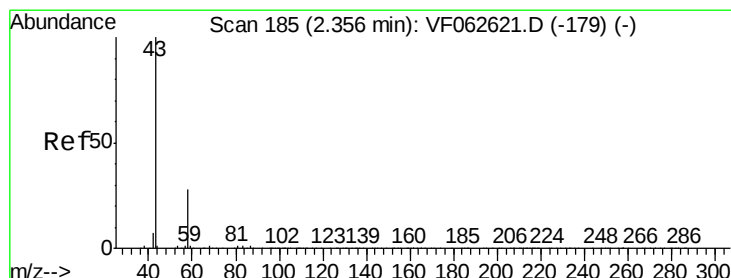
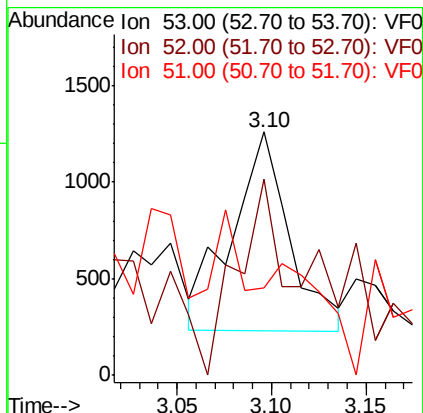
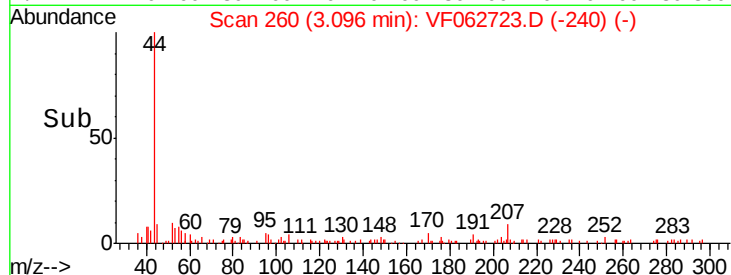
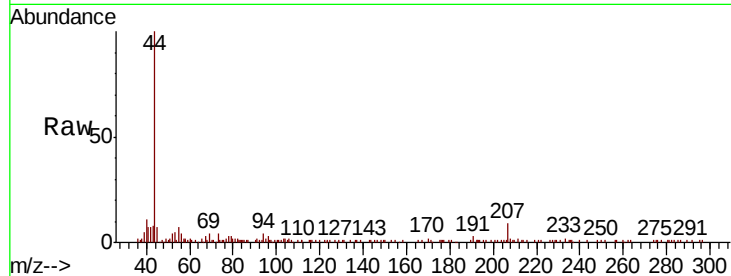
Delta R.T. -0.00 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	2181
Ion	Ratio	Lower	Upper
53	100		
52	80.7	67.3	100.9
51	35.8	33.0	49.6



#16

Acetone

Concen: 18.854 ug/l

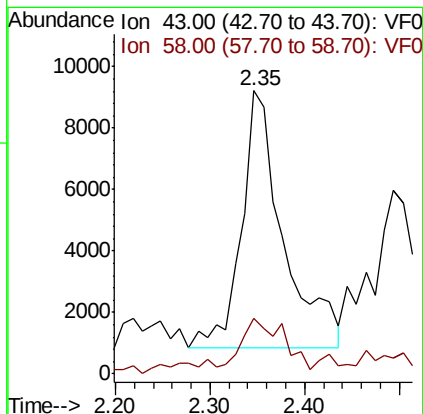
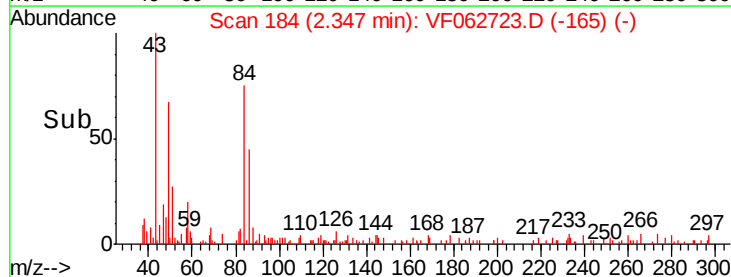
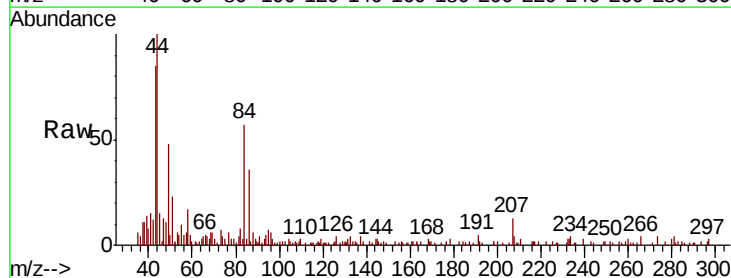
RT: 2.35 min Scan# 184

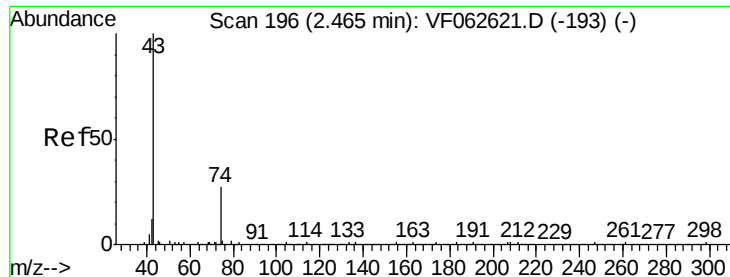
Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Tgt Ion:	43	Resp:	25377
Ion	Ratio	Lower	Upper
43	100		
58	19.8	22.6	33.8#

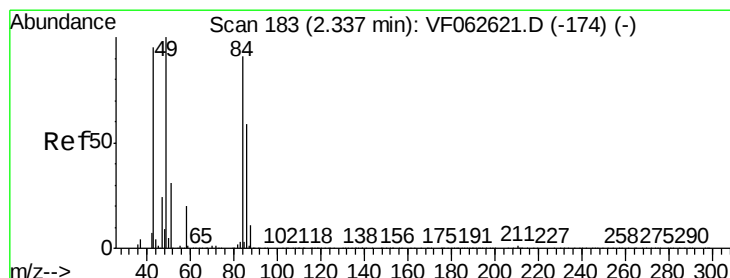
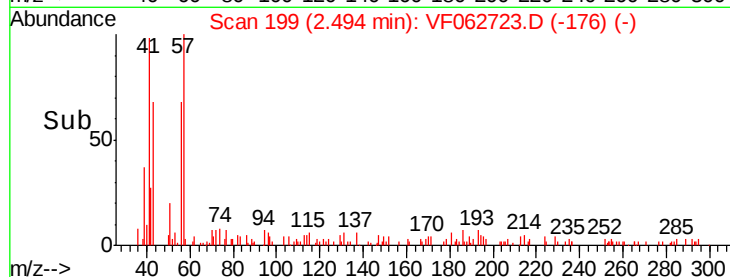
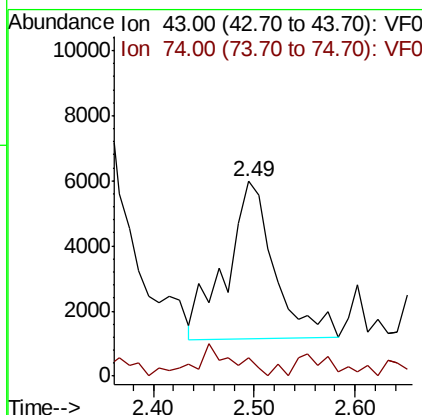
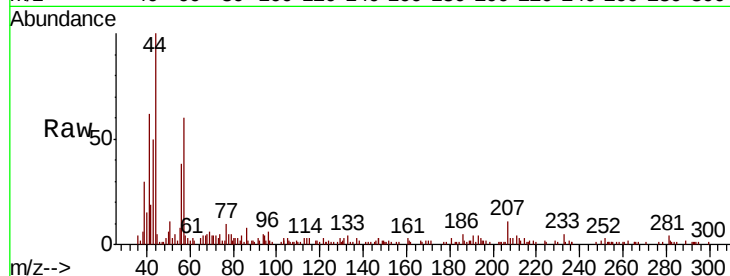




#18
Methyl Acetate
Concen: 7.607 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

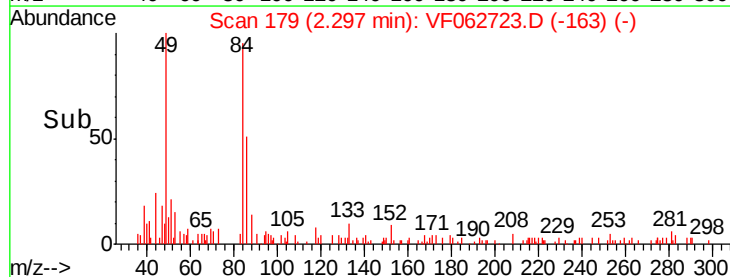
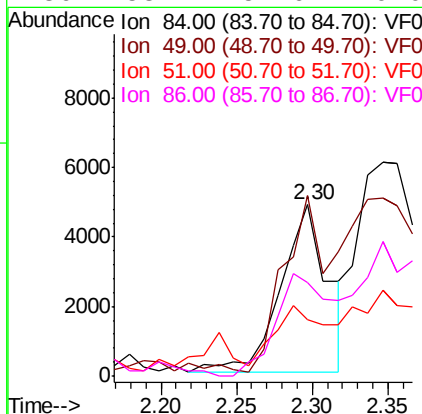
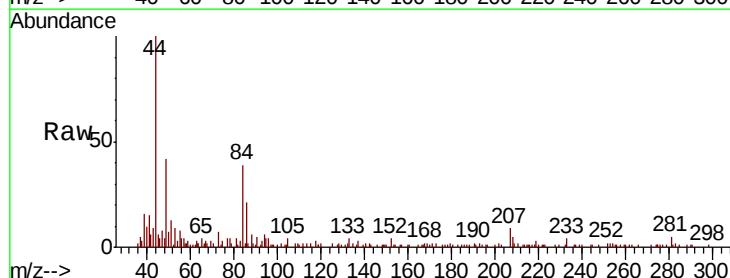
Instrument :
MSVOA_F
ClientSampled :

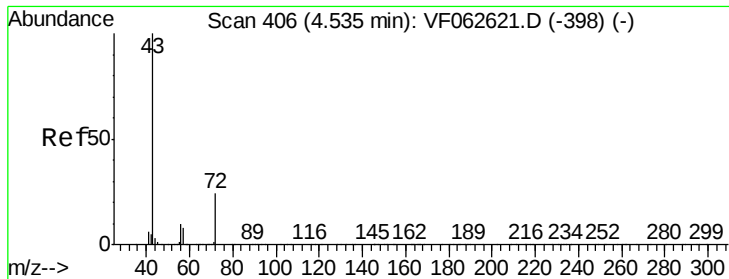
Tot Ion: 43 Resp: 16089
Ion Ratio Lower Upper
43 100
74 9.2 18.9 28.3#



#20
Methylene Chloride
Concen: 1.564 ug/l
RT: 2.30 min Scan# 179
Delta R.T. -0.04 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

Tgt Ion: 84 Resp: 10550
Ion Ratio Lower Upper
84 100
49 105.8 89.8 134.8
51 33.0 28.4 42.6
86 58.4 52.6 79.0

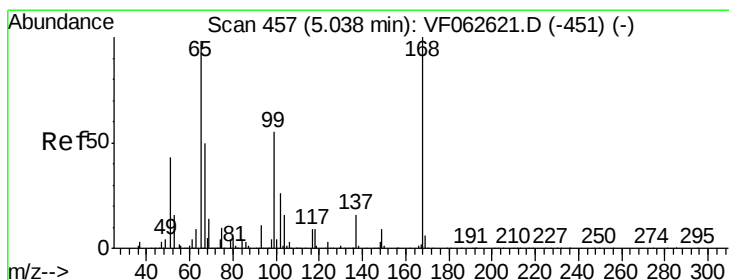
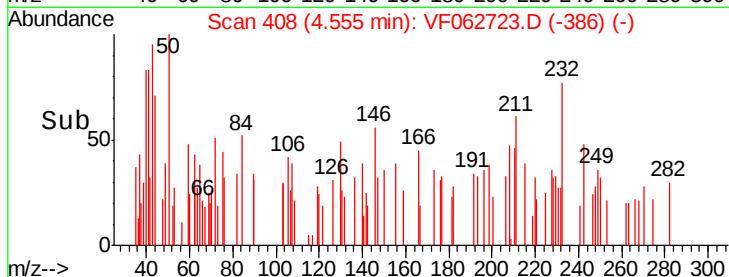
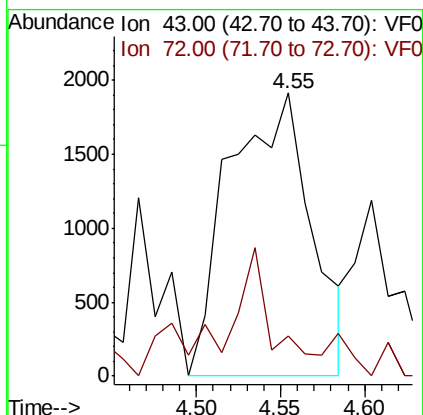
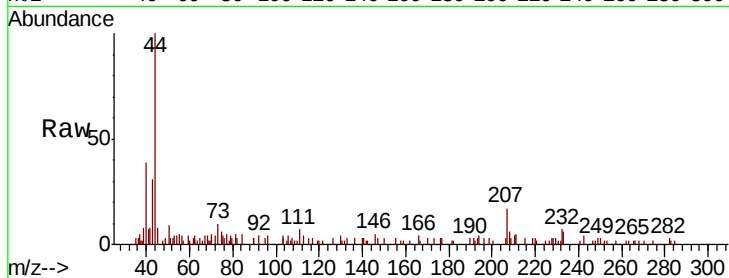




#25
2-Butanone
Concen: 2.252 ug/l
RT: 4.55 min Scan# 408
Delta R.T. 0.02 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

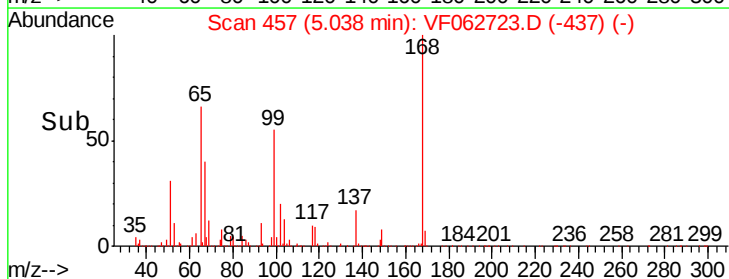
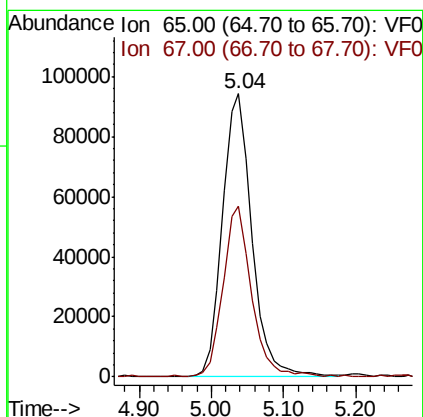
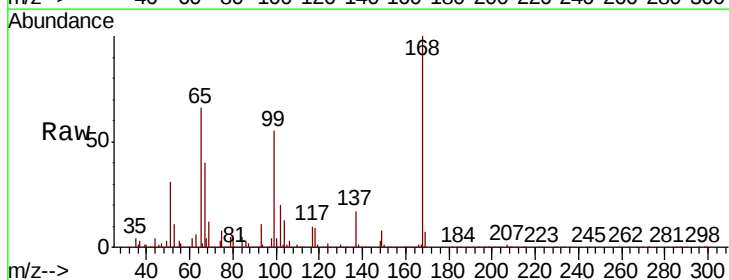
Instrument :
MSVOA_F
ClientSampled :

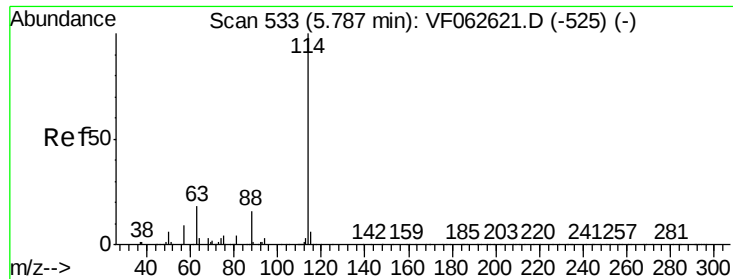
Tot Ion: 43 Resp: 6475
Ion Ratio Lower Upper
43 100
72 14.3 20.1 30.1#



#33
1,2-Dichloroethane-d4
Concen: 51.721 ug/l
RT: 5.04 min Scan# 457
Delta R.T. -0.00 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

Tgt Ion: 65 Resp: 268334
Ion Ratio Lower Upper
65 100
67 60.4 0.0 117.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

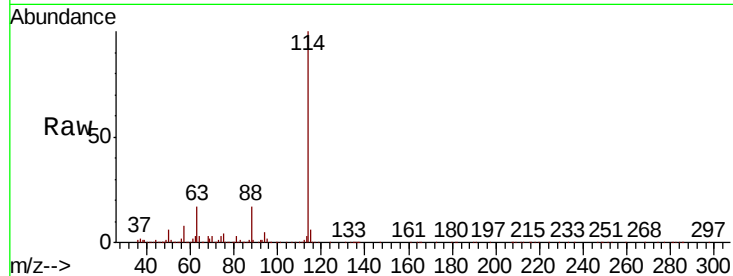
Tot Ion:114 Resp: 1271653

Ion Ratio Lower Upper

114 100

63 17.2 0.0 35.4

88 16.6 0.0 32.4



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

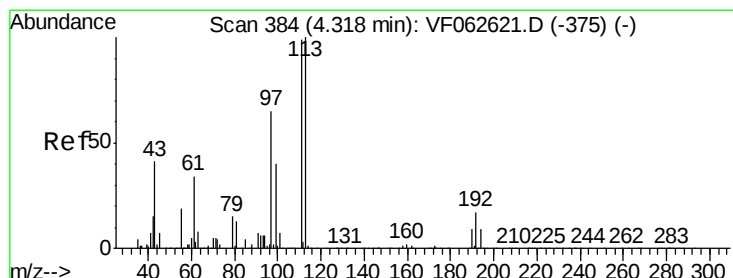
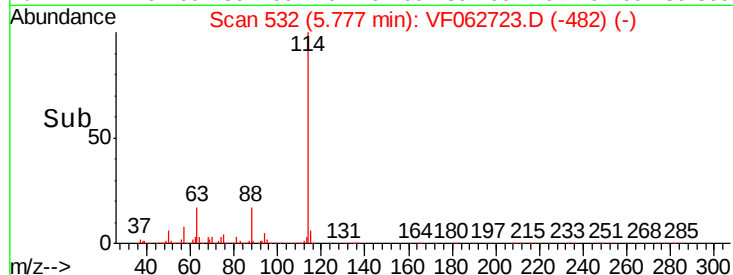
5.78

400000

200000

0

Time-->



#35

Dibromofluoromethane

Concen: 49.706 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

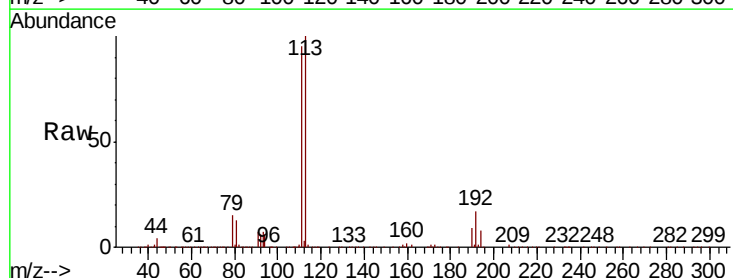
Tgt Ion:113 Resp: 483672

Ion Ratio Lower Upper

113 100

111 94.6 79.4 119.2

192 16.9 13.4 20.2



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

4.31

200000

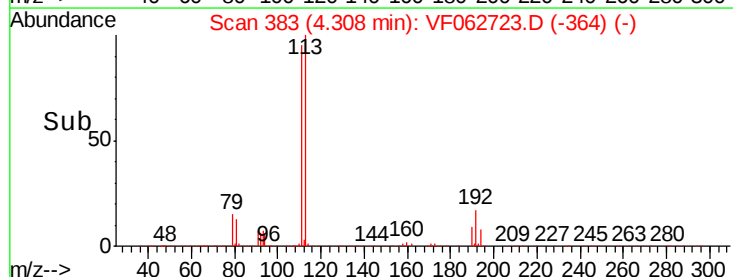
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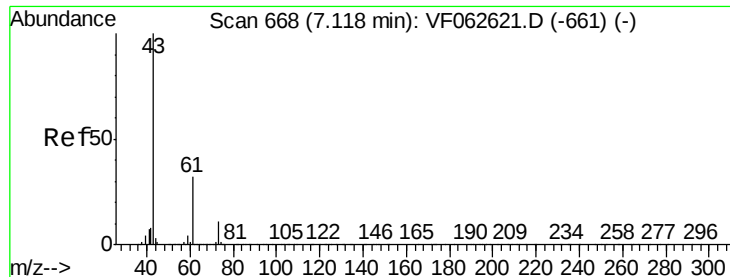
100000

50000

0

Time-->

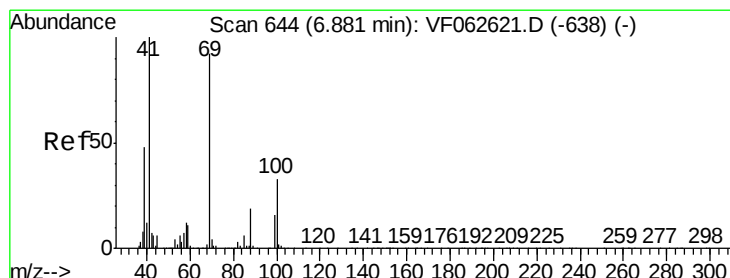
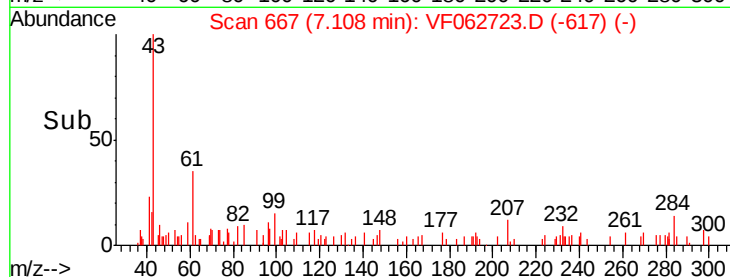
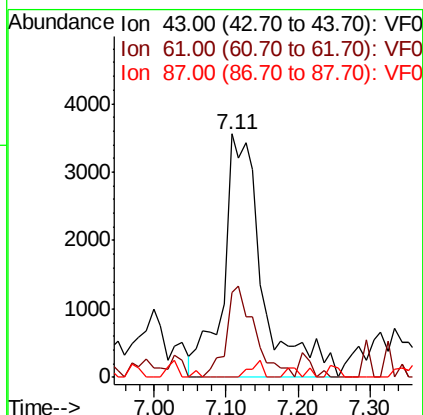
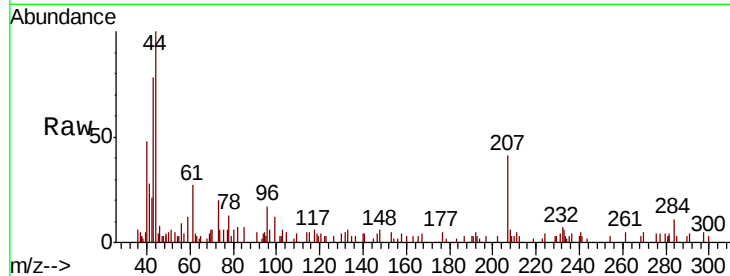




#43
Isopropyl Acetate
Concen: 1.950 ug/l
RT: 7.11 min Scan# 667
Delta R.T. -0.01 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

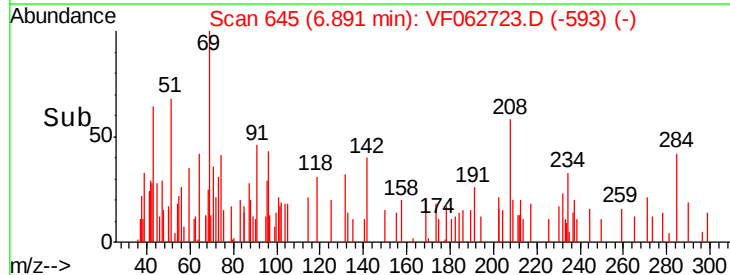
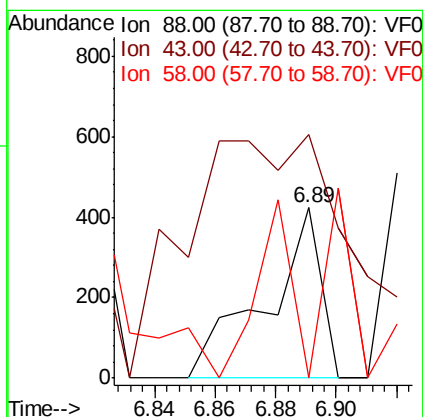
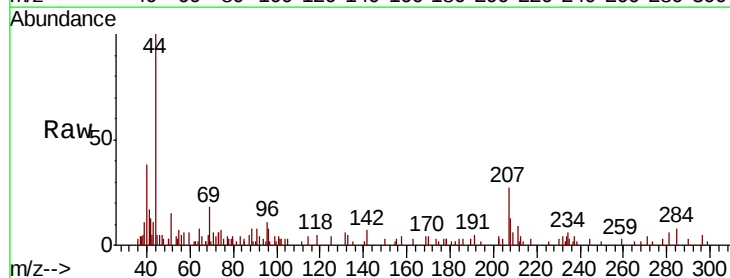
Instrument :
MSVOA_F
ClientSampleId :

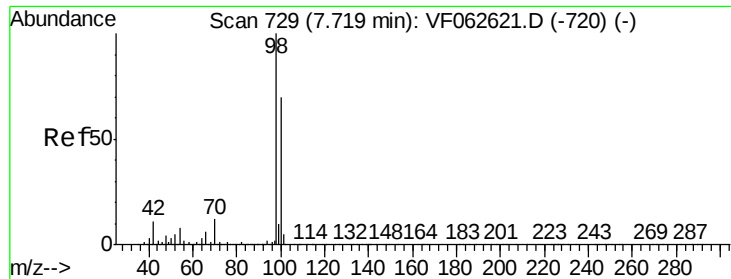
Tot Ion: 43 Resp: 13440
Ion Ratio Lower Upper
43 100
61 34.9 25.8 38.8
87 0.0 0.4 0.6#



#49
1,4-Dioxane
Concen: 11.551 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.01 min
Lab File: VF062723.D
Acq: 23 May 2019 13:33

Tgt Ion: 88 Resp: 533
Ion Ratio Lower Upper
88 100
43 143.0 30.0 45.0#
58 0.0 51.1 76.7#





#50

Toluene-d8

Concen: 41.040 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Instrument :

MSVOA_F

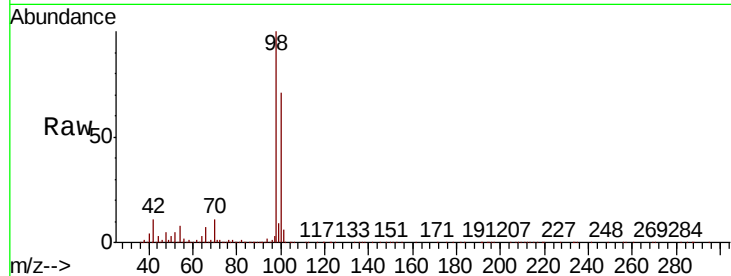
ClientSampleId :

Tot Ion: 98 Resp: 953495

Ion Ratio Lower Upper

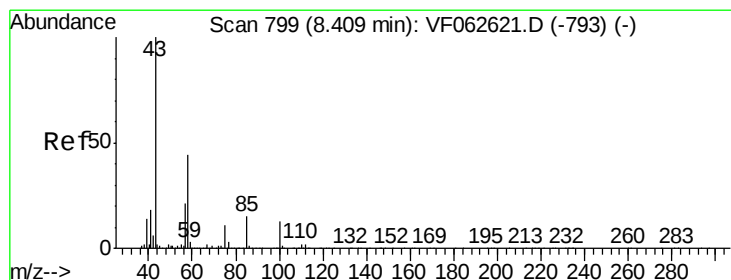
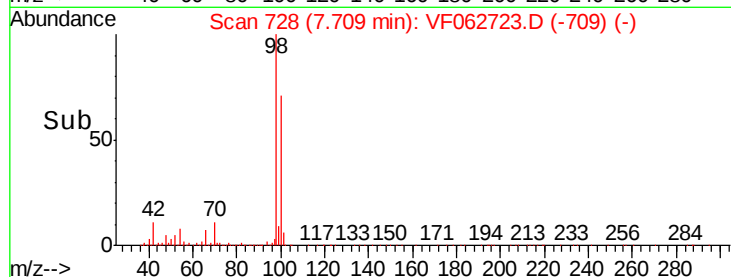
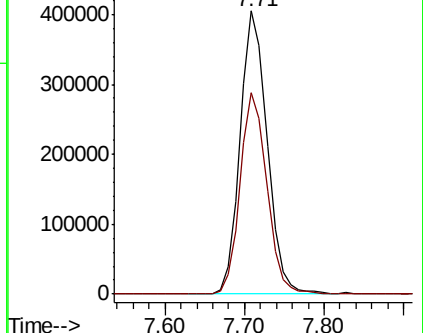
98 100

100 71.1 56.2 84.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 7.585 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF062723.D

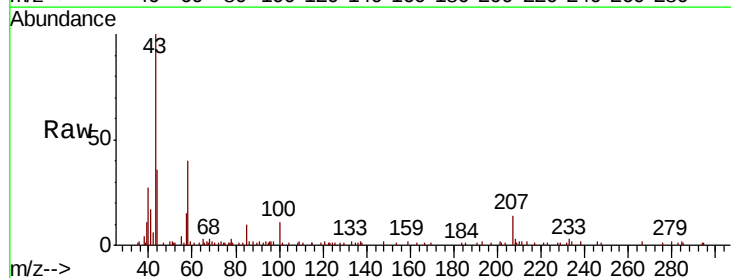
Acq: 23 May 2019 13:33

Tgt Ion: 43 Resp: 35738

Ion Ratio Lower Upper

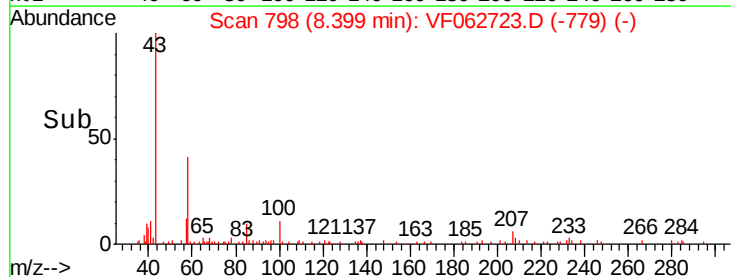
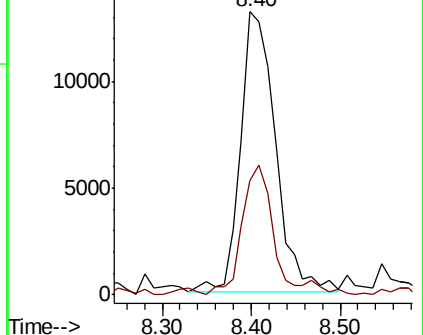
43 100

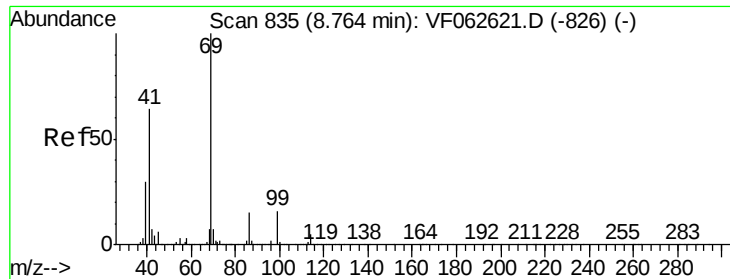
58 40.2 34.9 52.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#56

Ethyl methacrylate

Concen: 1.436 ug/l

RT: 8.75 min Scan# 834

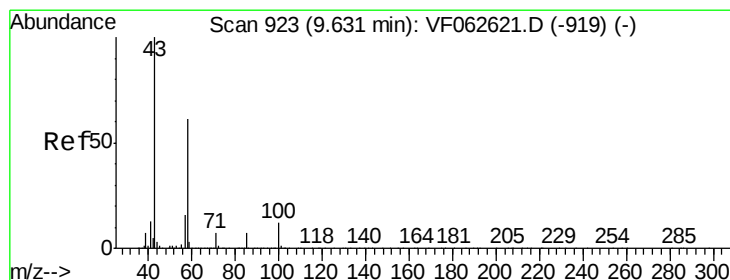
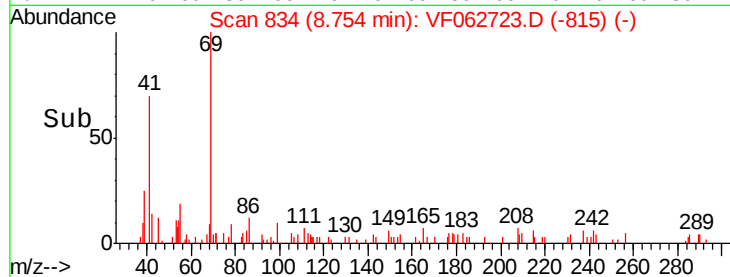
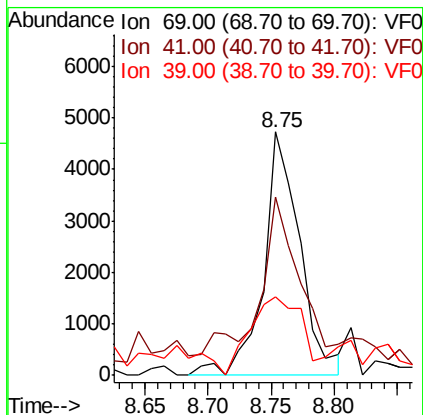
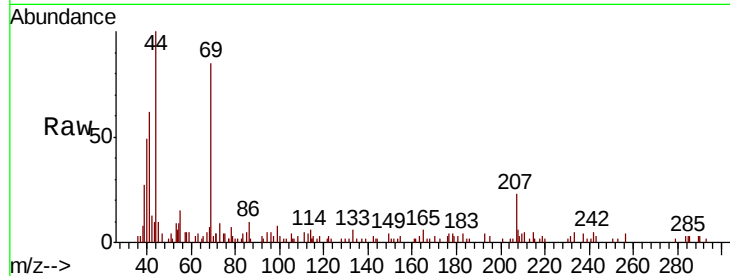
Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	69	Resp:	9433
Ion	Ratio	Lower	Upper
69	100		
41	73.4	51.4	77.2
39	32.1	23.6	35.4



#59

2-Hexanone

Concen: Below Cal

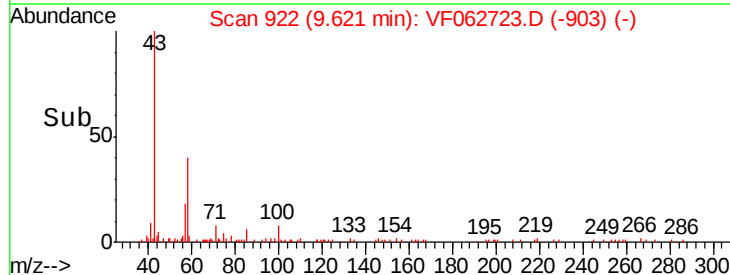
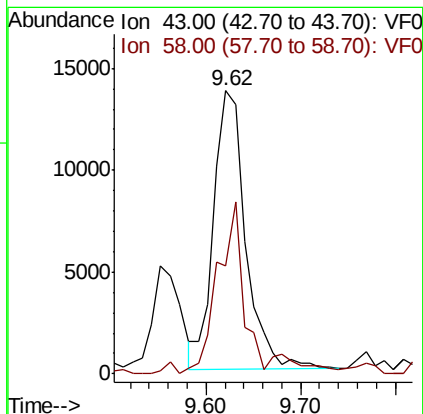
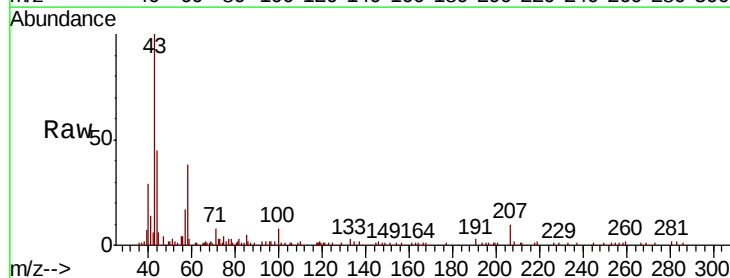
RT: 9.62 min Scan# 922

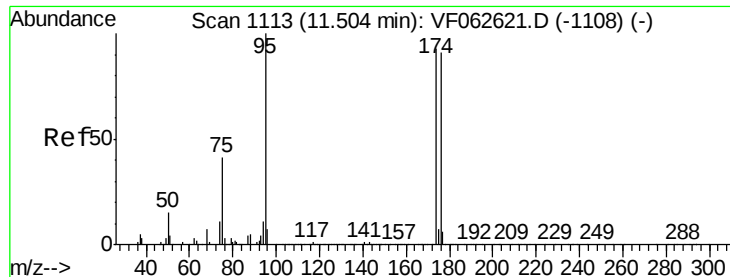
Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Tgt Ion:	43	Resp:	32143
Ion	Ratio	Lower	Upper
43	100		
58	38.3	28.1	84.4





#62

4-Bromofluorobenzene

Concen: 38.256 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

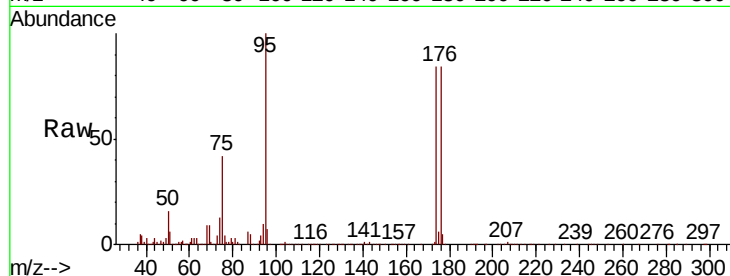
Tot Ion: 95 Resp: 337094

Ion Ratio Lower Upper

95 100

174 84.3 0.0 185.6

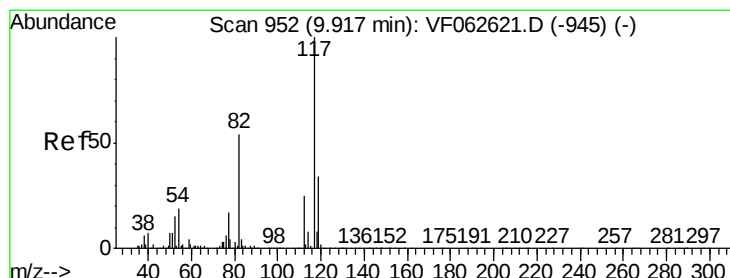
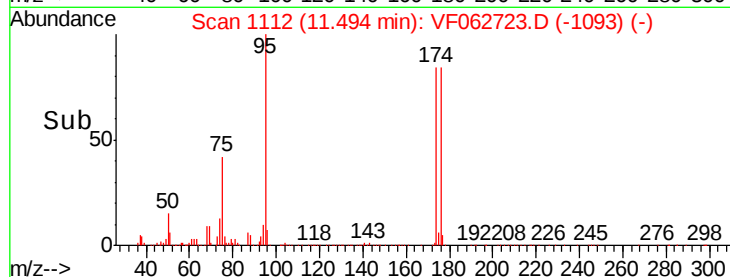
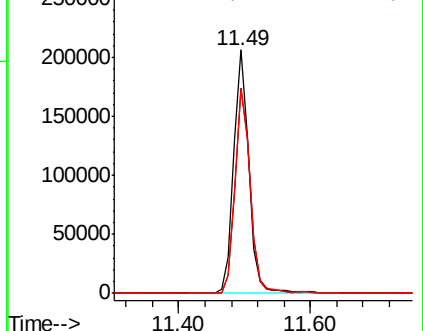
176 84.5 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

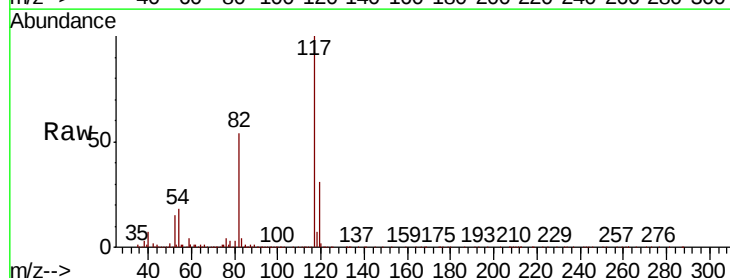
Tgt Ion: 117 Resp: 897891

Ion Ratio Lower Upper

117 100

82 54.1 43.3 64.9

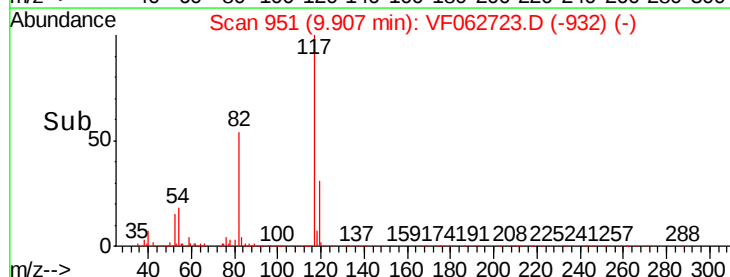
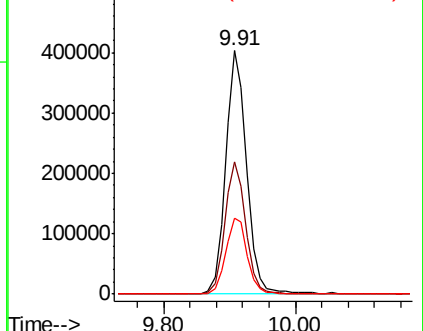
119 31.1 27.4 41.0

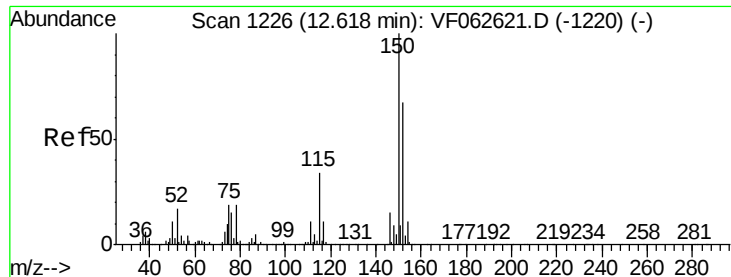


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

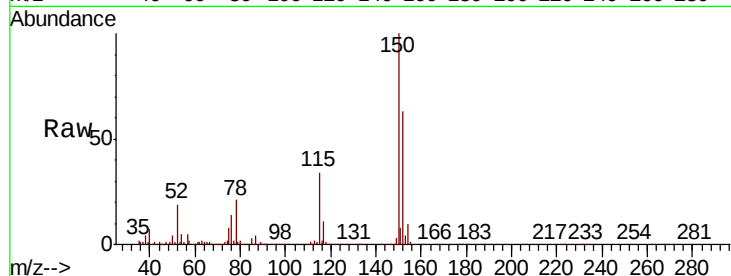
Tot Ion:152 Resp: 336681

Ion Ratio Lower Upper

152 100

115 54.8 25.2 75.6

150 159.9 0.0 306.2

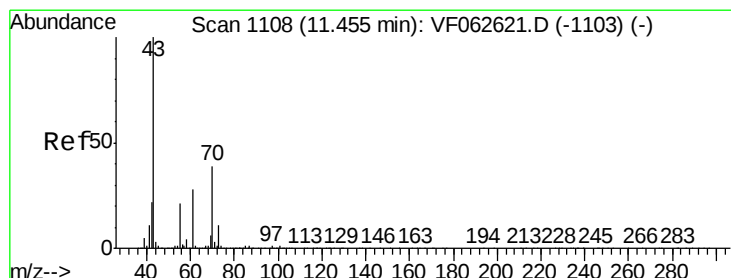
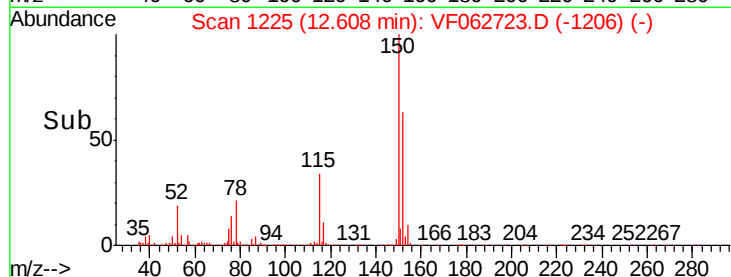
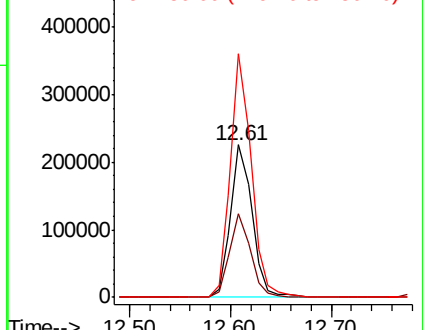


Abundance

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



#74

N-amil acetate

Concen: Below Cal

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Tgt Ion: 43 Resp: 25570

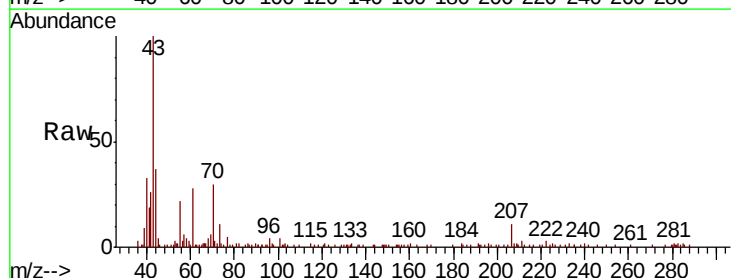
Ion Ratio Lower Upper

43 100

70 29.9 30.9 46.3#

55 21.7 17.0 25.4

61 27.8 22.6 34.0



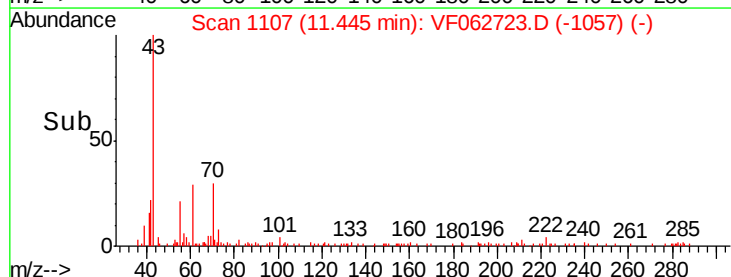
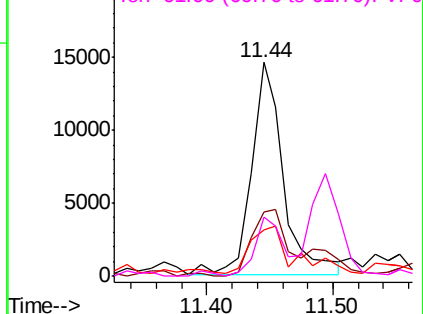
Abundance

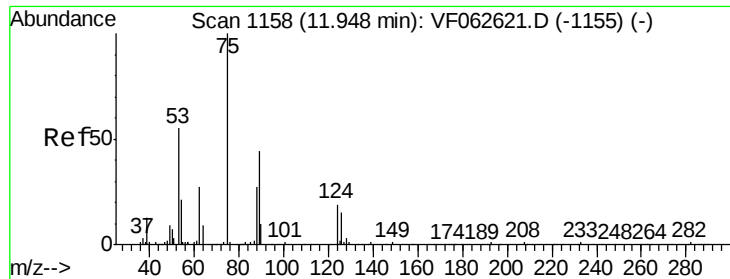
Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 2.060 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062723.D

Acq: 23 May 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

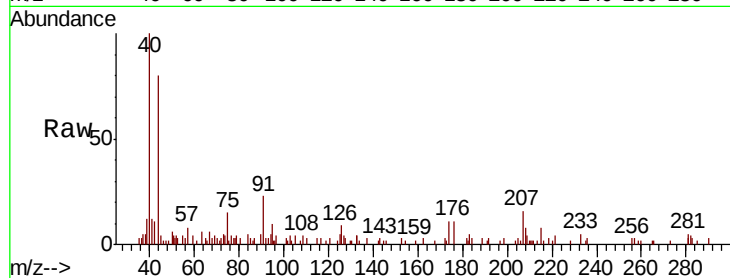
Tot Ion: 75 Resp: 2967

Ion Ratio Lower Upper

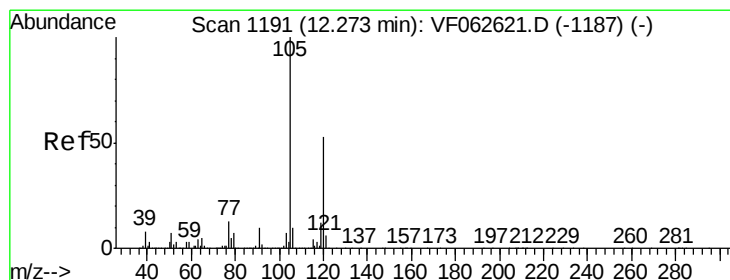
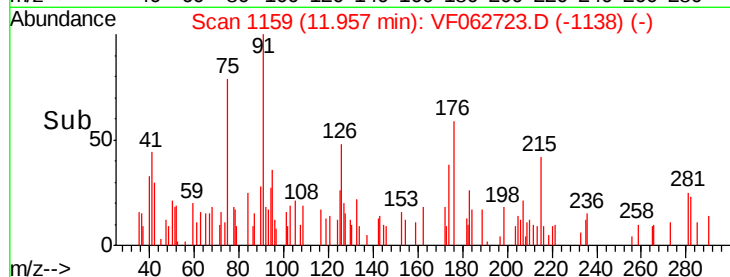
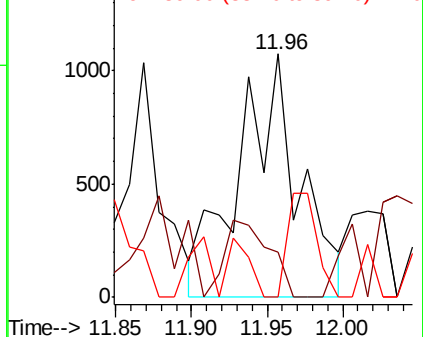
75 100

53 18.4 46.9 70.3#

89 0.0 36.4 54.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.760 ug/l

RT: 12.26 min Scan# 1190

Delta R.T. -0.01 min

Lab File: VF062723.D

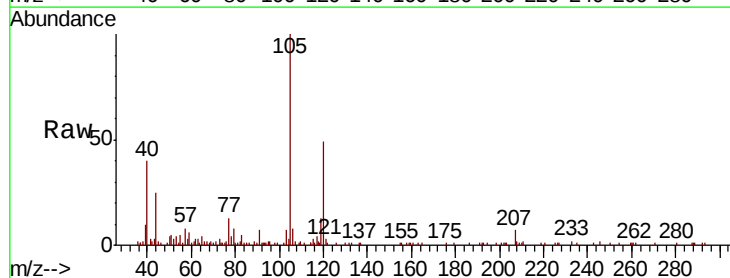
Acq: 23 May 2019 13:33

Tgt Ion:105 Resp: 32960

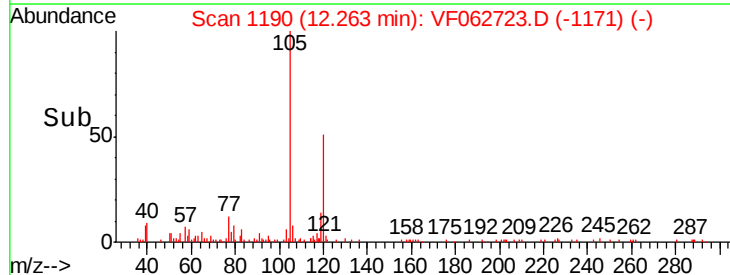
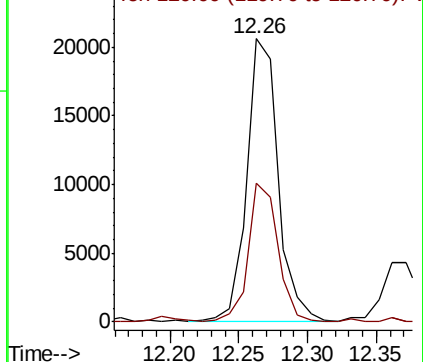
Ion Ratio Lower Upper

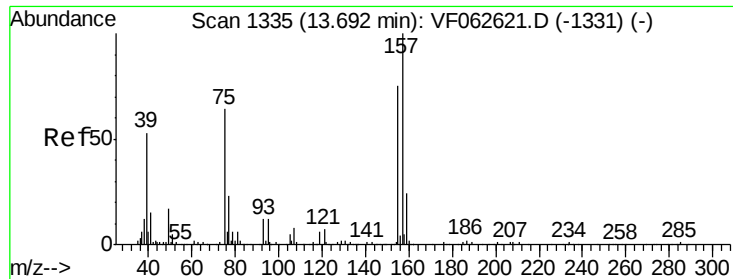
105 100

120 49.1 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

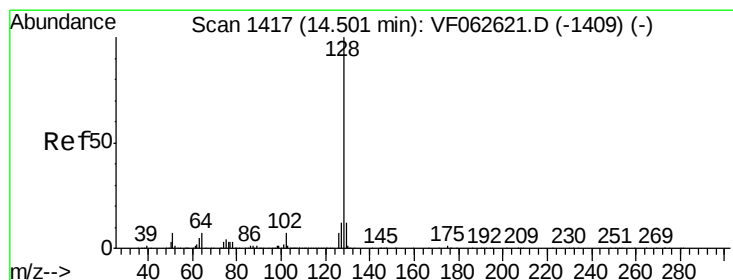
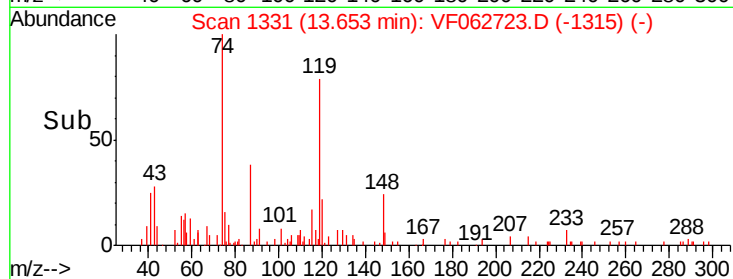
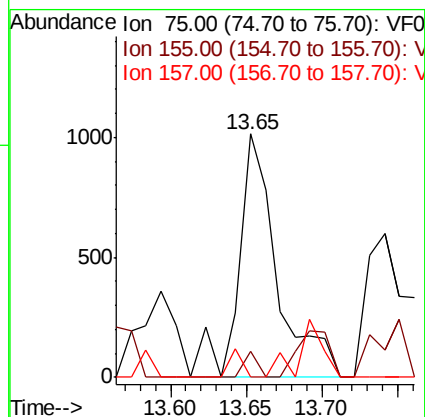
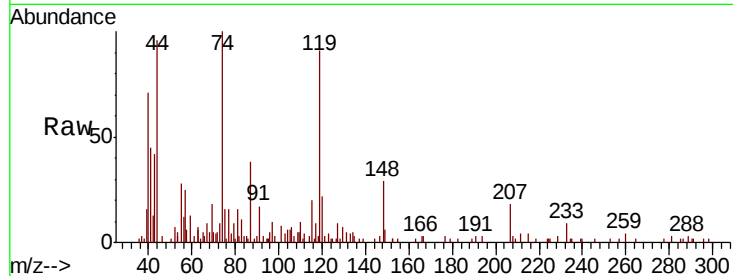




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.063 ug/l
 RT: 13.65 min Scan# 1331
 Delta R.T. -0.04 min
 Lab File: VF062723.D
 Acq: 23 May 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 75 Resp: 1802
 Ion Ratio Lower Upper
 75 100
 155 10.7 58.1 174.3#
 157 0.0 77.8 233.4#



#95
 Naphthalene
 Concen: 4.550 ug/l
 RT: 14.49 min Scan# 1416
 Delta R.T. -0.01 min
 Lab File: VF062723.D
 Acq: 23 May 2019 13:33

Tgt Ion: 128 Resp: 57238
 Ion Ratio Lower Upper
 128 100
 127 12.0 9.7 14.5
 129 16.2 9.3 13.9#

