

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051619\
 Data File : VF062624.D
 Acq On : 16 May 2019 13:41
 Operator : FY/SY
 Sample : VIBLK
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VIBLK

Quant Time: May 17 06:01:51 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	5.07	168	869933	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1303484	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	1022553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	503078	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	296619	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
35) Dibromofluoromethane	4.32	113	520814	52.22	ug/l	0.00
Spiked Amount			Recovery	=	104.44%	
50) Toluene-d8	7.72	98	1135500	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	11.50	95	434493	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	

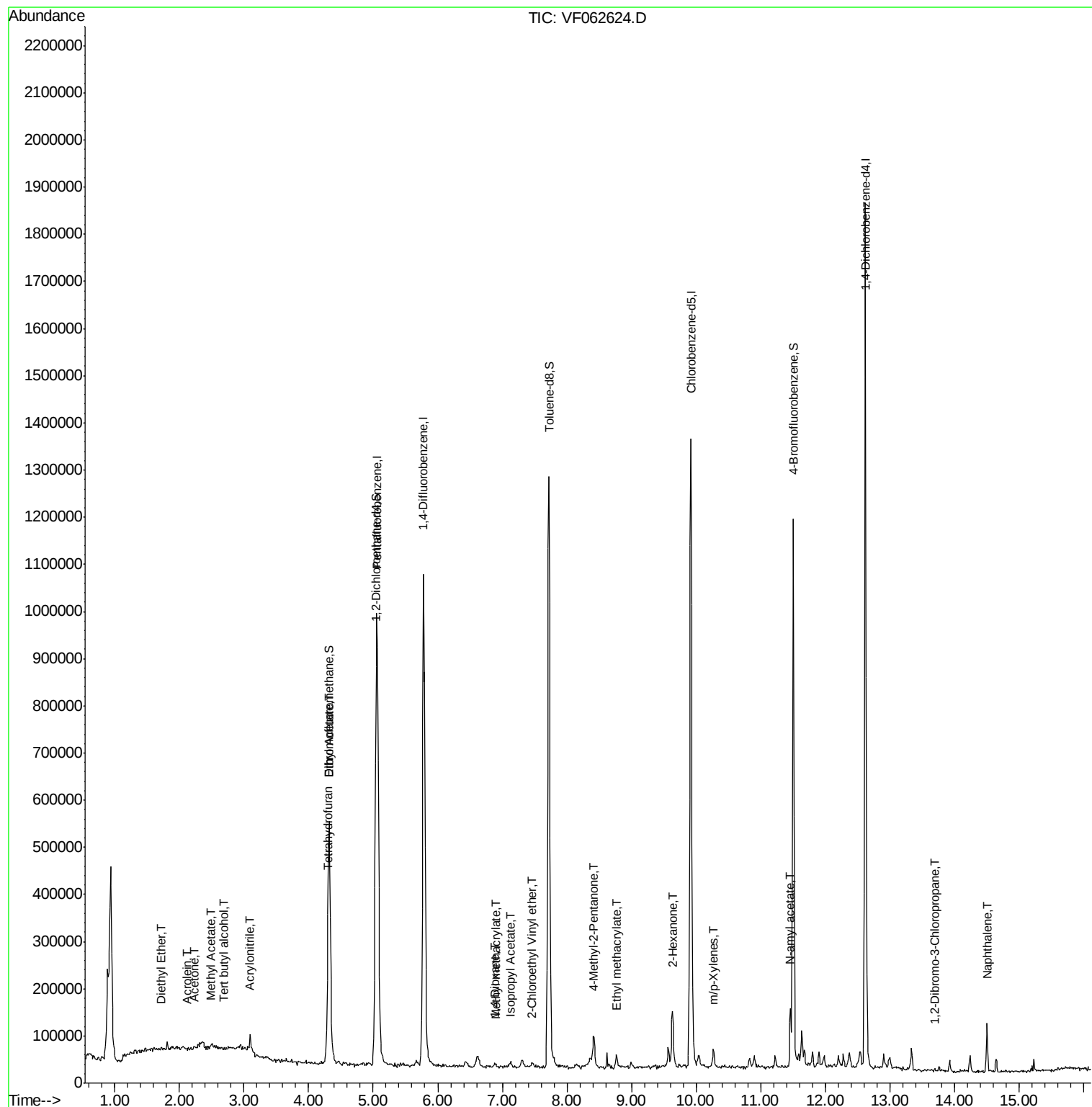
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.71	74	2963	1.110	ug/l	49
11) Tert butyl alcohol	2.69	59	1782	4.391	ug/l #	51
13) Acrolein	2.11	56	2755	6.503	ug/l #	26
15) Acrylonitrile	3.10	53	7145	6.241	ug/l #	69
16) Acetone	2.24	43	2031	1.273	ug/l	91
18) Methyl Acetate	2.48	43	4426	1.766	ug/l #	76
29) Tetrahydrofuran	4.29	42	6758	4.901	ug/l #	85
37) Ethyl Acetate	4.32	43	6696	1.228	ug/l #	22
43) Isopropyl Acetate	7.13	43	15326	2.169	ug/l #	95
48) Methyl methacrylate	6.90	41	3920	1.061	ug/l	93
49) 1,4-Dioxane	6.87	88	873	18.457	ug/l #	30
51) 4-Methyl-2-Pentanone	8.42	43	67390	13.954	ug/l	88
56) Ethyl methacrylate	8.76	69	21556	3.202	ug/l #	80
58) 2-Chloroethyl Vinyl ether	7.46	63	5498	2.509	ug/l	97
59) 2-Hexanone	9.63	43	108732	18.068	ug/l	96
68) m/p-Xylenes	10.26	106	14296	1.090	ug/l	98
74) N-amyl acetate	11.46	43	84790	4.311	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.69	75	934	1.063	ug/l	51
95) Naphthalene	14.50	128	70955	3.775	ug/l	99

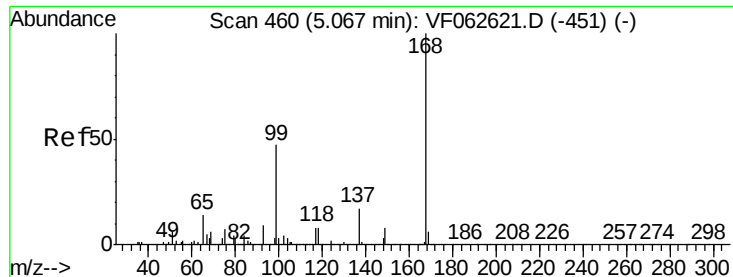
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
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: 5.07 min Scan# 460

Delta R.T. 0.00 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

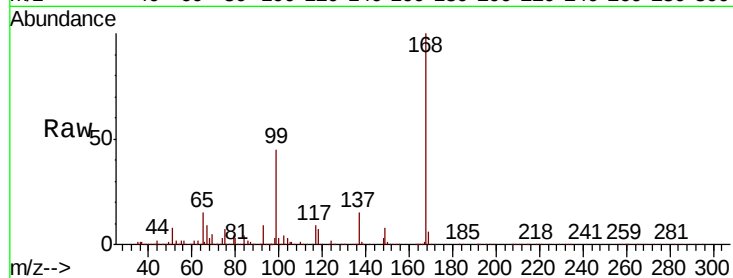
VIBLK

Tot Ion:168 Resp: 869933

Ion Ratio Lower Upper

168 100

99 45.2 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

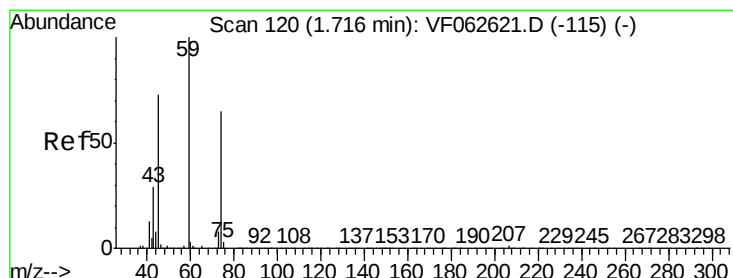
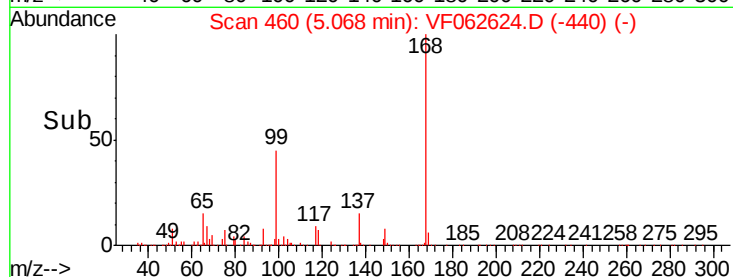
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 1.110 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.01 min

Lab File: VF062624.D

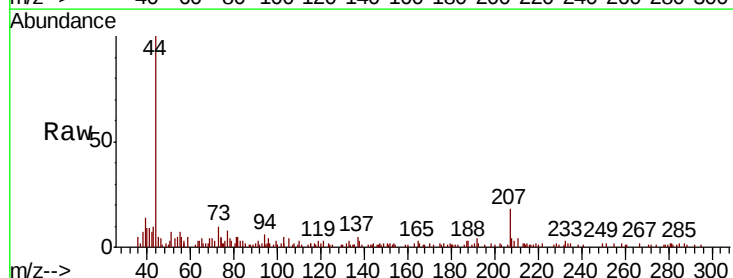
Acq: 16 May 2019 13:41

Tgt Ion: 74 Resp: 2963

Ion Ratio Lower Upper

74 100

45 59.1 57.0 170.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.71

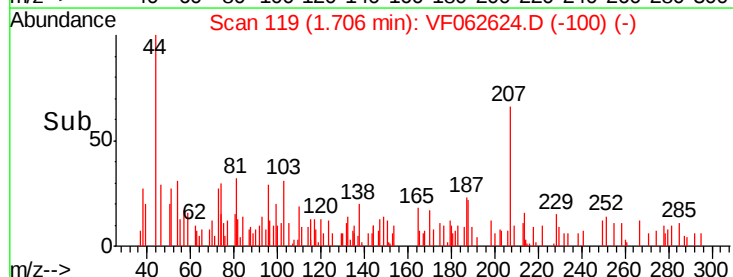
1500

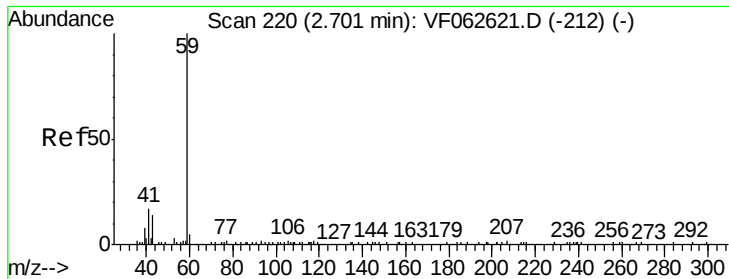
1000

500

0

Time-->



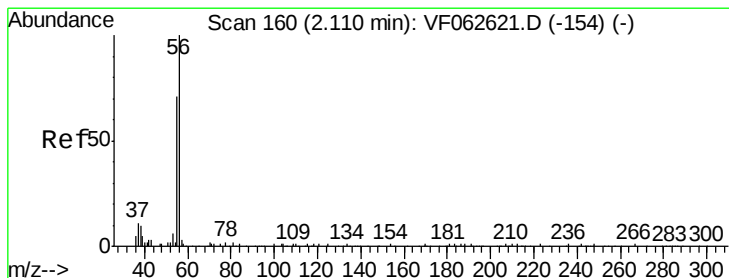
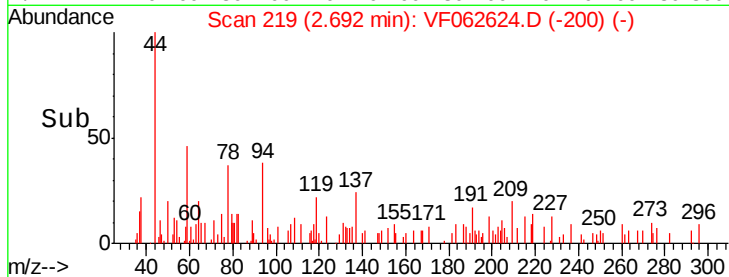
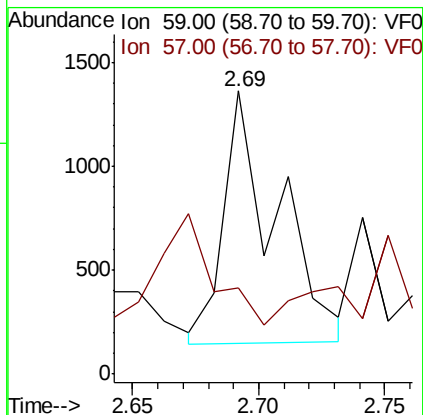
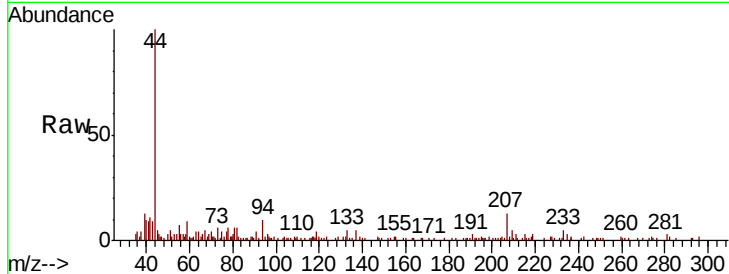


#11

Tert butyl alcohol
 Concen: 4.391 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. -0.01 min
 Lab File: VF062624.D
 Acq: 16 May 2019 13:41

Instrument :
 MSVOA_F
 ClientSampled :
 VIBLK

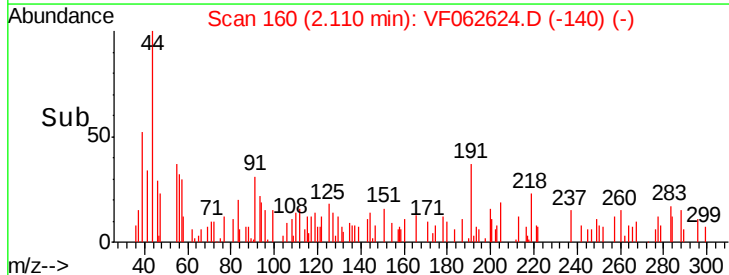
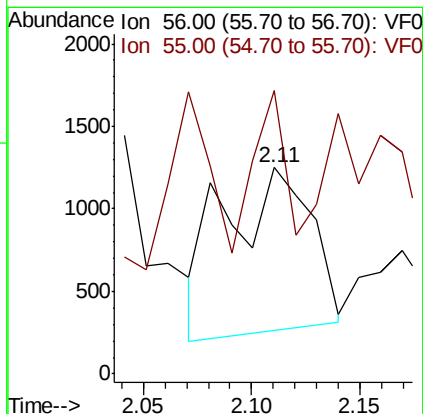
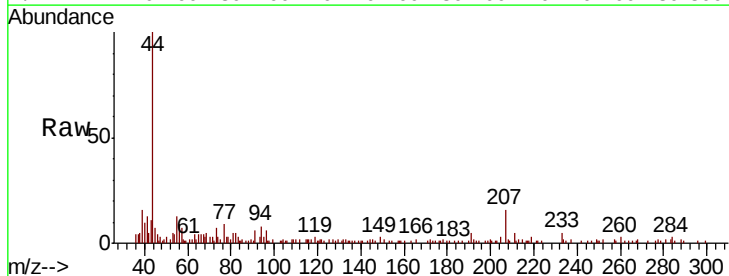
Tot Ion: 59 Resp: 1782
 Ion Ratio Lower Upper
 59 100
 57 30.5 9.3 13.9#

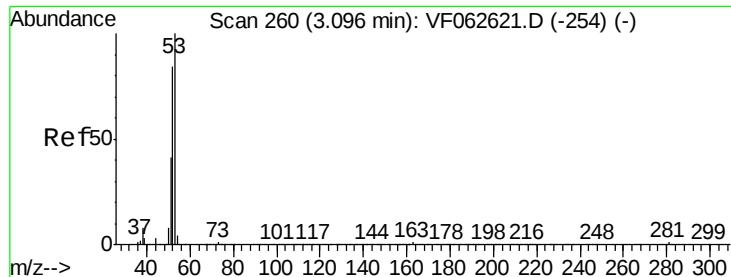


#13

Acrolein
 Concen: 6.503 ug/l
 RT: 2.11 min Scan# 160
 Delta R.T. 0.00 min
 Lab File: VF062624.D
 Acq: 16 May 2019 13:41

Tgt Ion: 56 Resp: 2755
 Ion Ratio Lower Upper
 56 100
 55 137.2 59.4 89.0#





#15

Acrylonitrile

Concen: 6.241 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

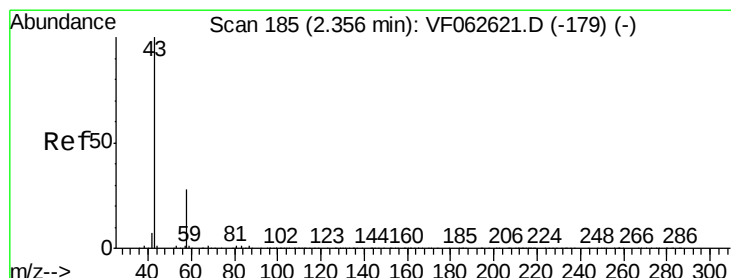
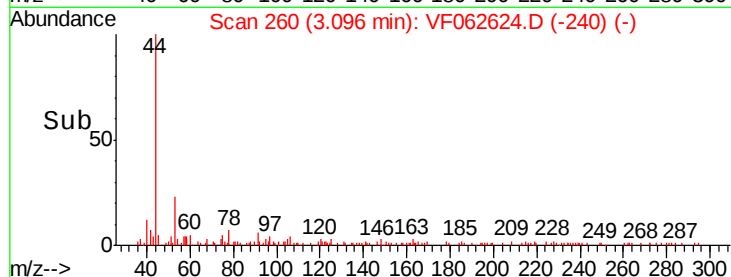
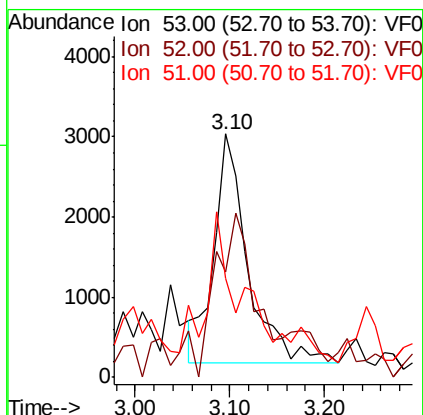
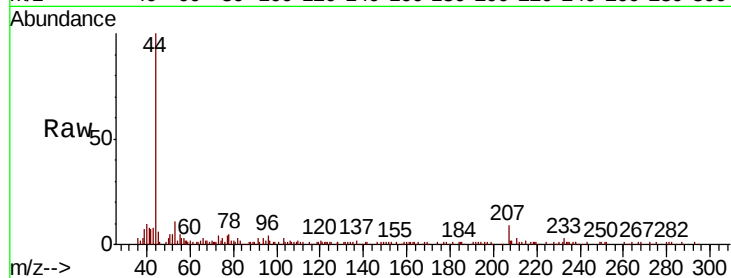
Tot Ion: 53 Resp: 7145

Ion Ratio Lower Upper

53 100

52 43.1 67.3 100.9#

51 40.7 33.0 49.6



#16

Acetone

Concen: 1.273 ug/l

RT: 2.24 min Scan# 173

Delta R.T. -0.12 min

Lab File: VF062624.D

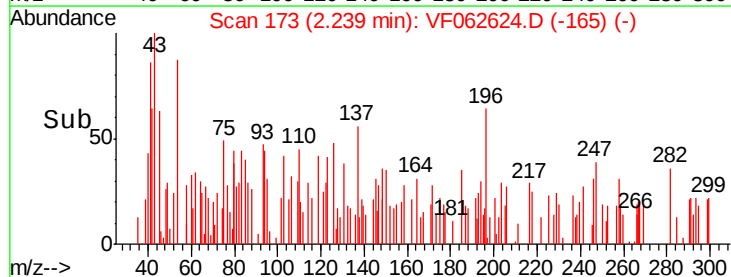
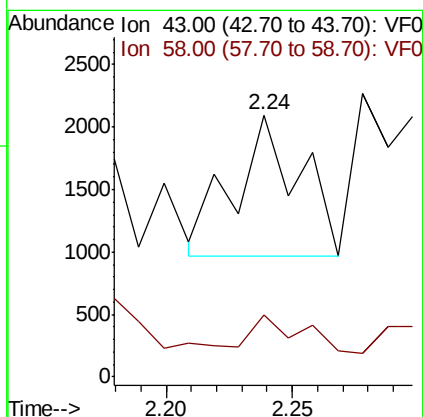
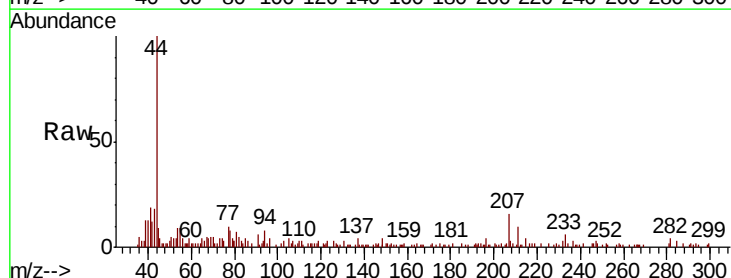
Acq: 16 May 2019 13:41

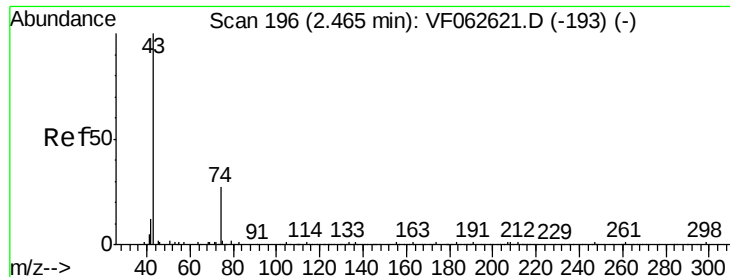
Tgt Ion: 43 Resp: 2031

Ion Ratio Lower Upper

43 100

58 23.6 22.6 33.8

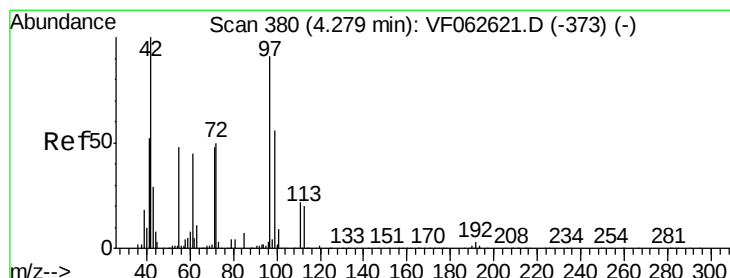
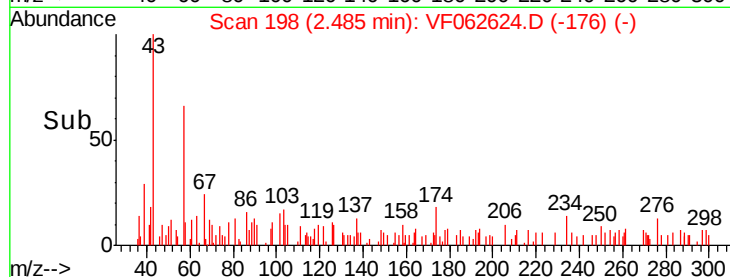
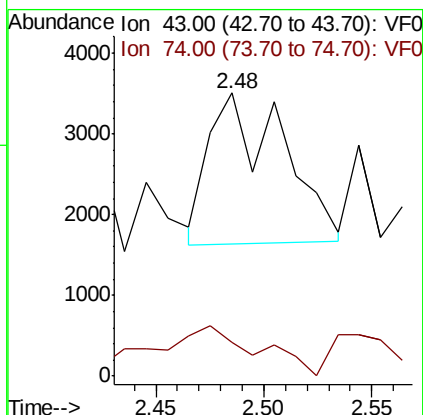
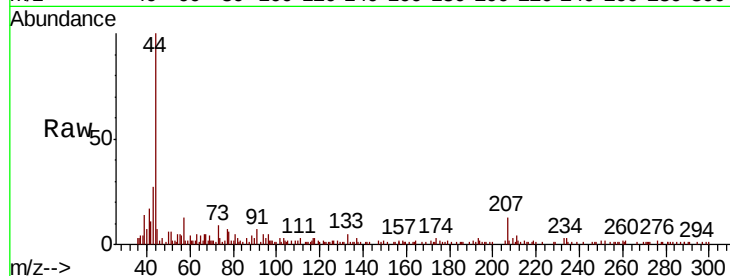




#18
Methyl Acetate
Concen: 1.766 ug/l
RT: 2.48 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

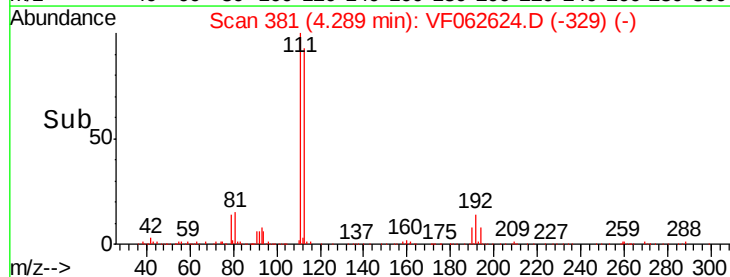
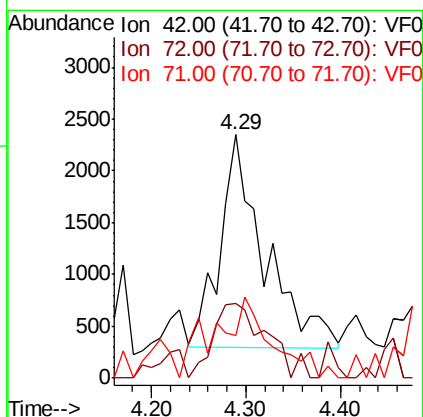
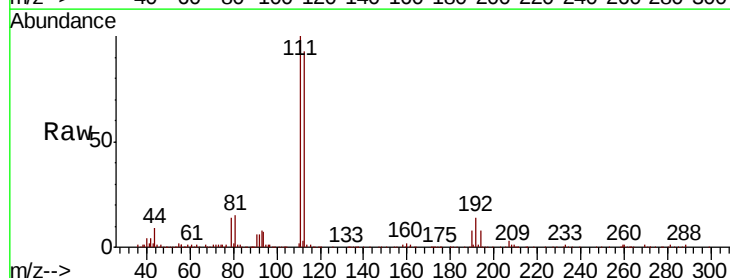
Instrument :
MSVOA_F
ClientSampleId :
VIBLK

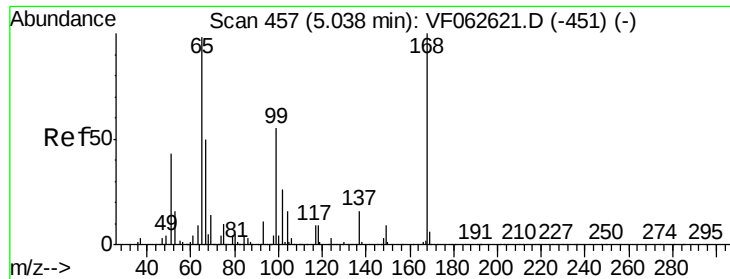
Tot Ion: 43 Resp: 4426
Ion Ratio Lower Upper
43 100
74 12.0 18.9 28.3#



#29
Tetrahydrofuran
Concen: 4.901 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

Tgt Ion: 42 Resp: 6758
Ion Ratio Lower Upper
42 100
72 42.1 38.2 57.2
71 30.5 35.8 53.6#





#33

1,2-Dichloroethane-d4

Concen: 48.251 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

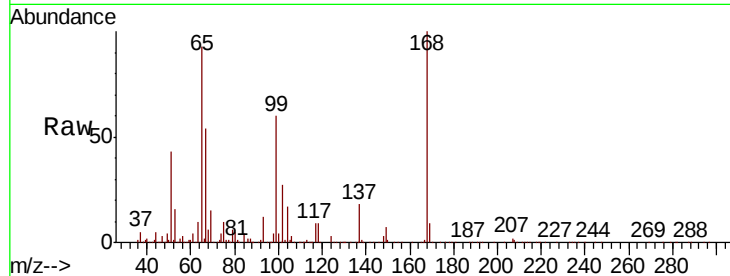
VIBLK

Tot Ion: 65 Resp: 296619

Ion Ratio Lower Upper

65 100

67 58.2 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.04

100000

80000

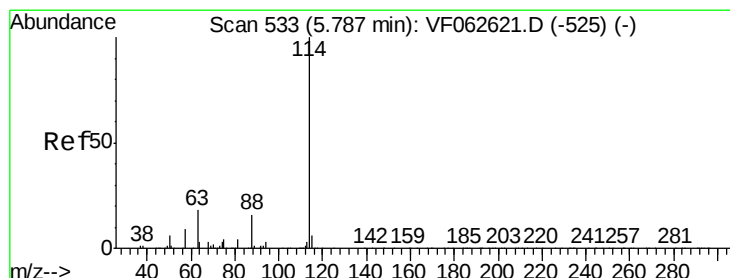
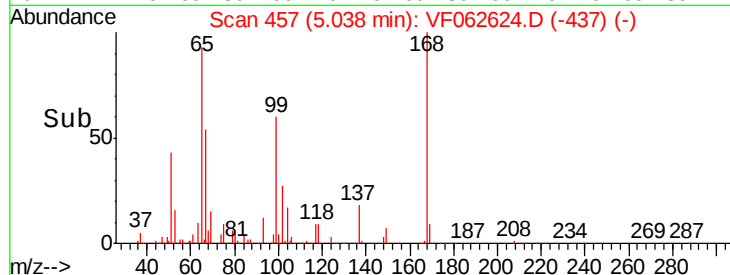
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.01 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

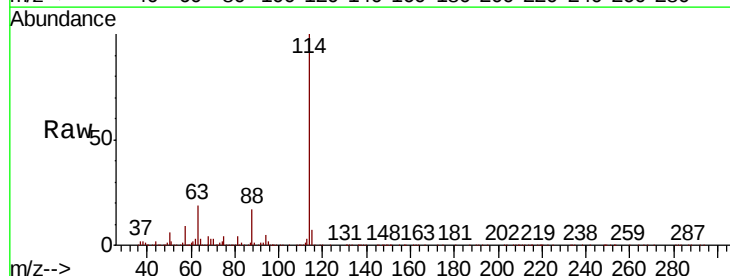
Tgt Ion: 114 Resp: 1303484

Ion Ratio Lower Upper

114 100

63 18.9 0.0 35.4

88 16.8 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

600000

500000

400000

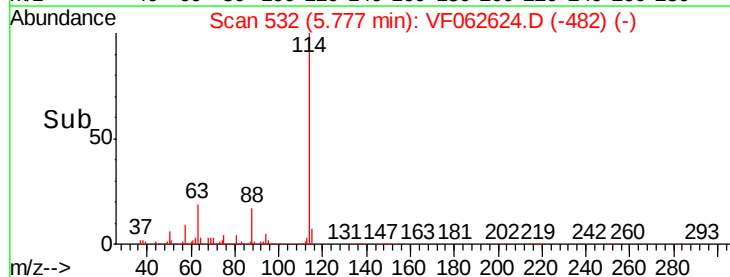
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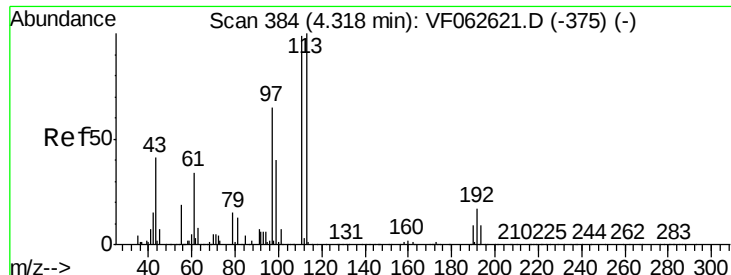
200000

100000

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Time-->

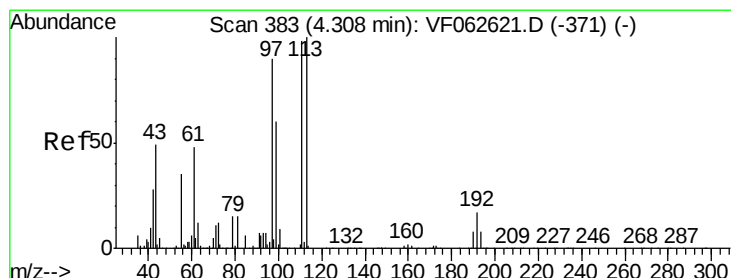
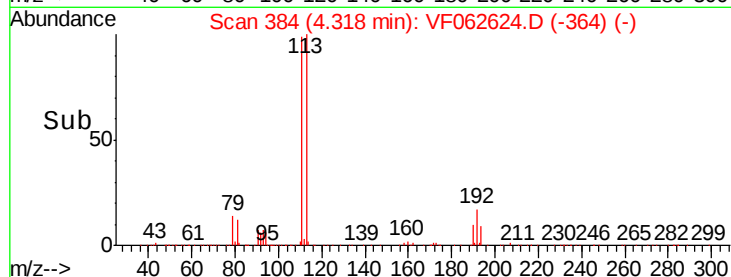
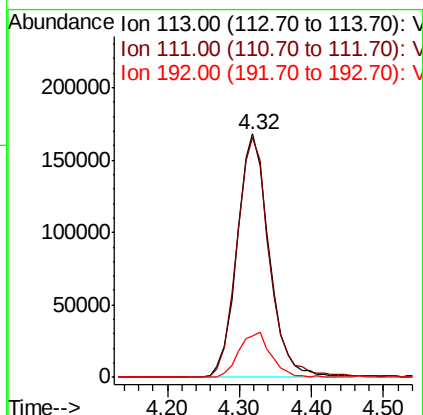
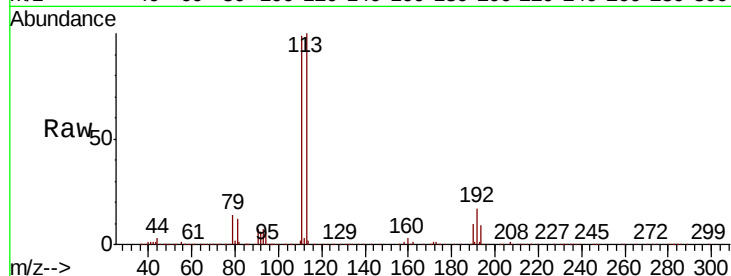




#35
Dibromofluoromethane
Concen: 52.216 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.00 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

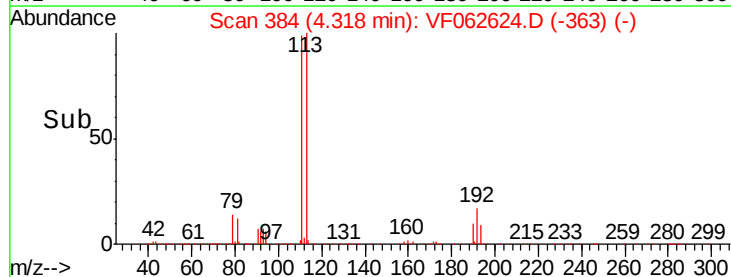
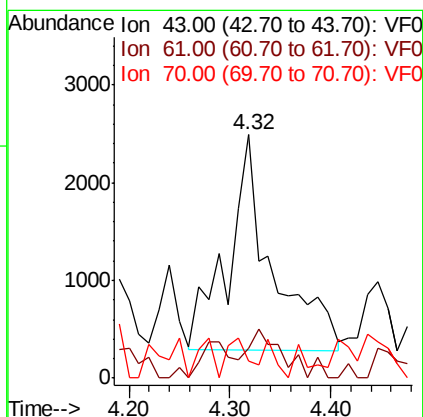
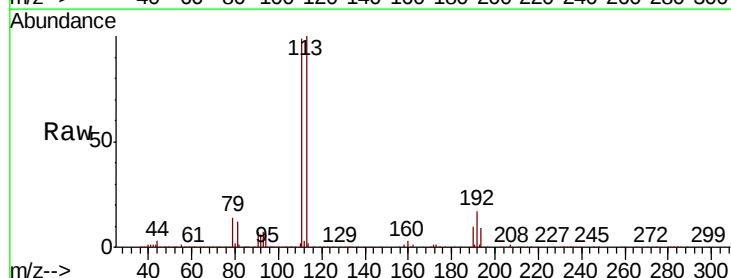
Instrument :
MSVOA_F
ClientSampleId :
VIBLK

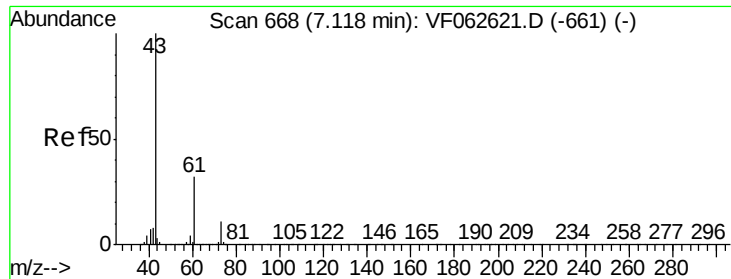
Tot Ion:113 Resp: 520814
Ion Ratio Lower Upper
113 100
111 98.5 79.4 119.2
192 16.9 13.4 20.2



#37
Ethyl Acetate
Concen: 1.228 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

Tgt Ion: 43 Resp: 6696
Ion Ratio Lower Upper
43 100
61 12.2 76.9 115.3#
70 7.0 8.8 13.2#





#43

Isopropyl Acetate

Concen: 2.169 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

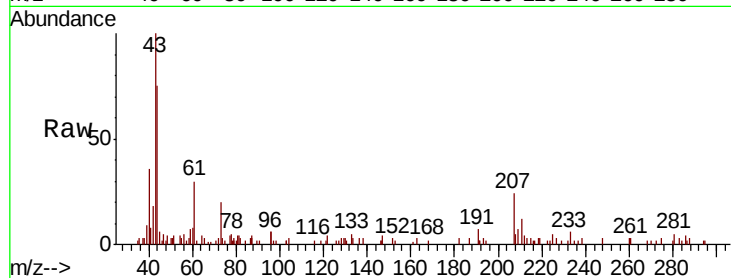
Tot Ion: 43 Resp: 15326

Ion Ratio Lower Upper

43 100

61 29.6 25.8 38.8

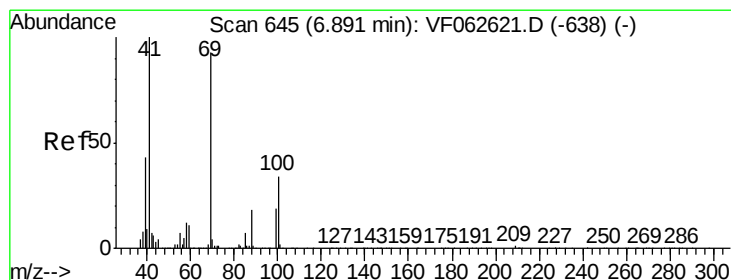
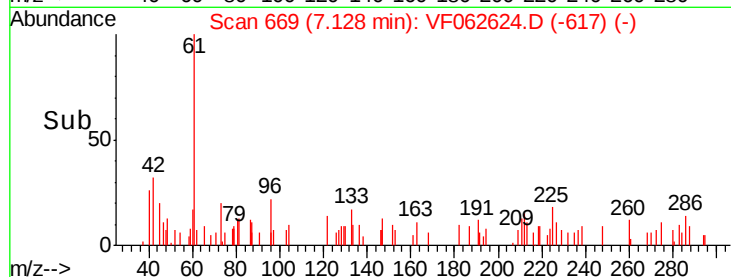
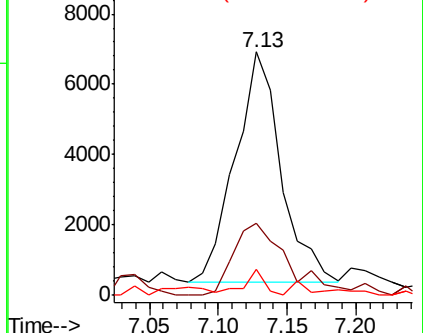
87 10.8 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 1.061 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.01 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

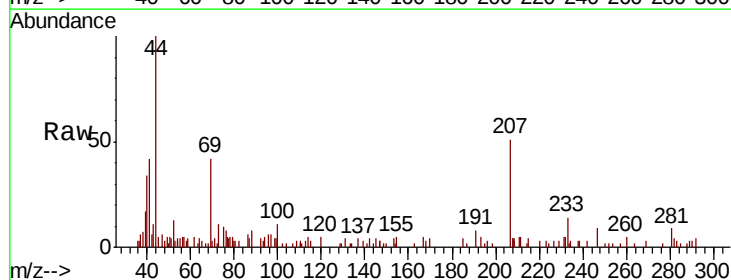
Tgt Ion: 41 Resp: 3920

Ion Ratio Lower Upper

41 100

69 101.5 74.2 111.2

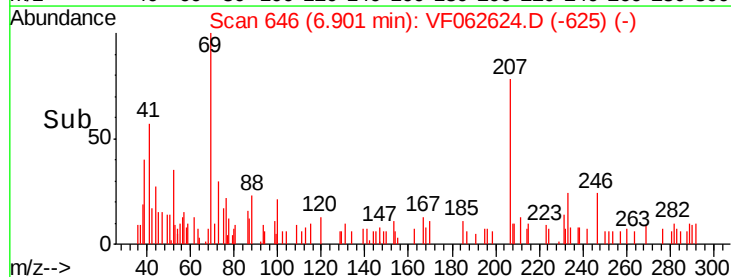
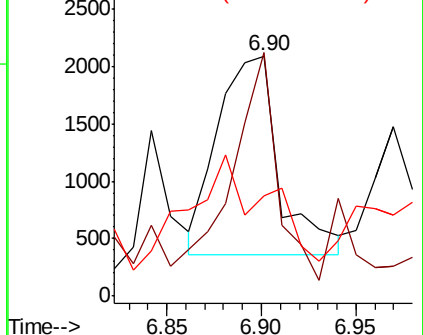
39 41.8 34.2 51.4

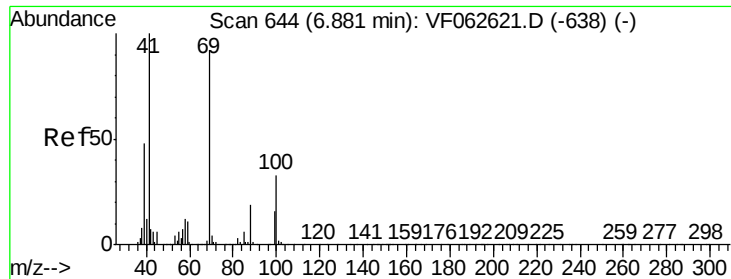


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

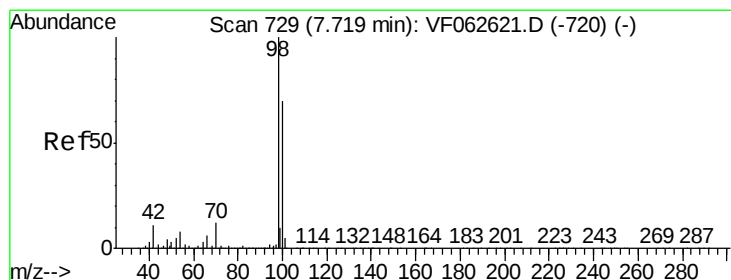
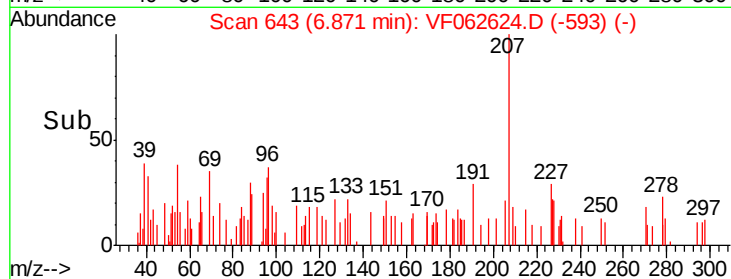
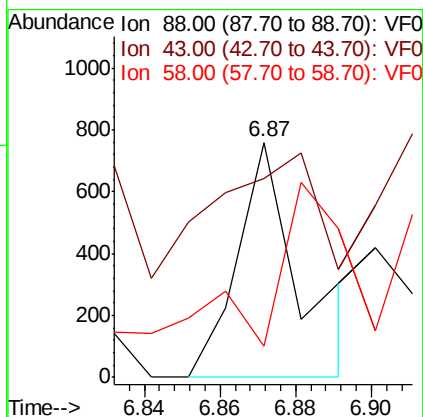
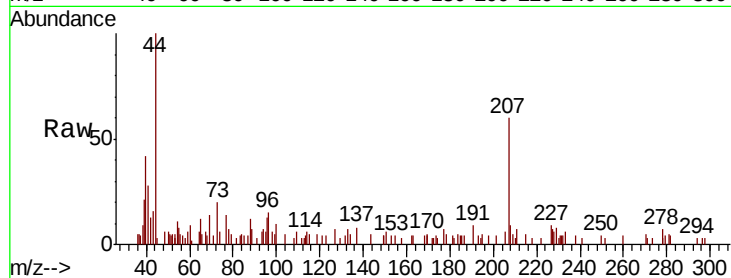




#49
1,4-Dioxane
Concen: 18.457 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

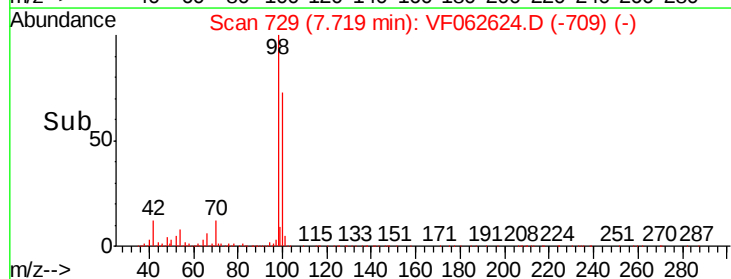
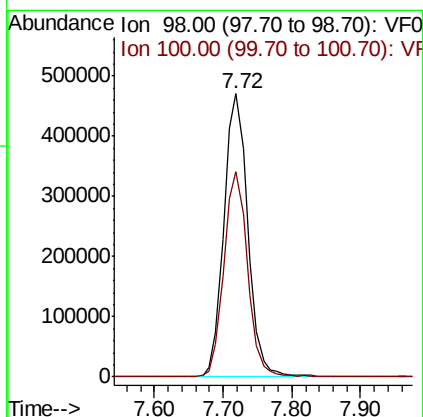
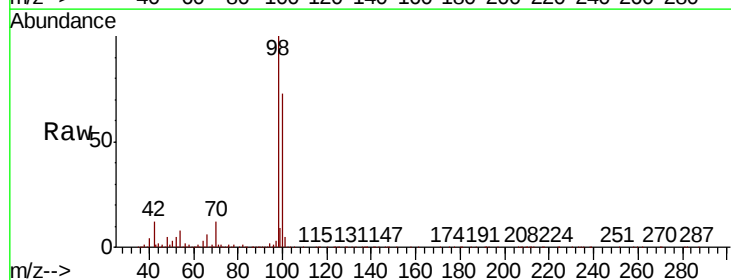
Instrument :
MSVOA_F
ClientSampleID :
VIBLK

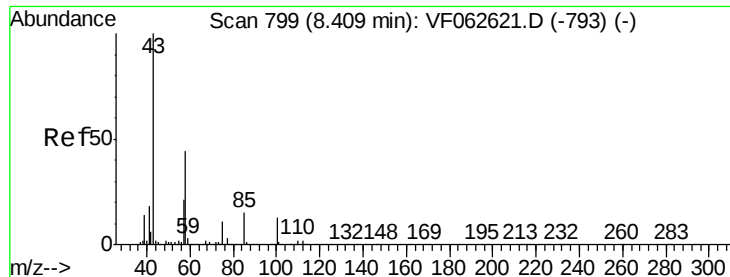
Tot Ion: 88 Resp: 873
Ion Ratio Lower Upper
88 100
43 84.3 30.0 45.0#
58 13.3 51.1 76.7#



#50
Toluene-d8
Concen: 47.680 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

Tgt Ion: 98 Resp: 1135500
Ion Ratio Lower Upper
98 100
100 72.7 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 13.954 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

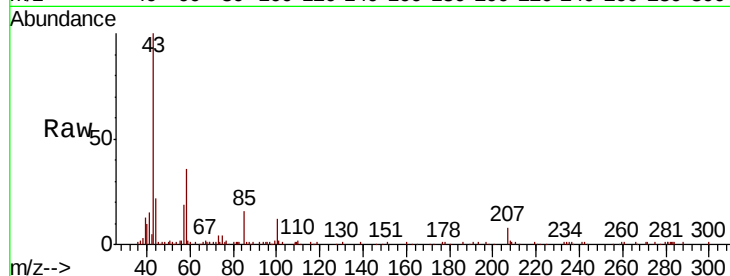
VIBLK

Tot Ion: 43 Resp: 67390

Ion Ratio Lower Upper

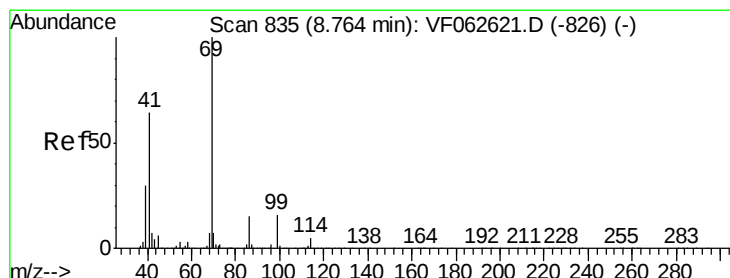
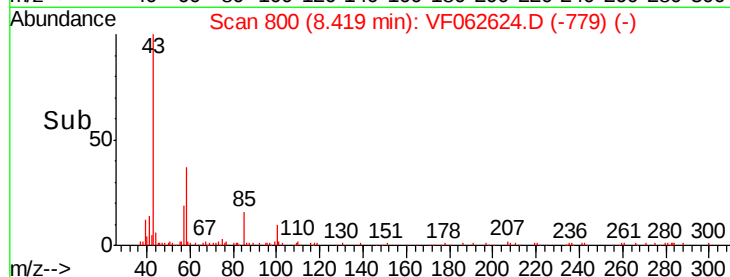
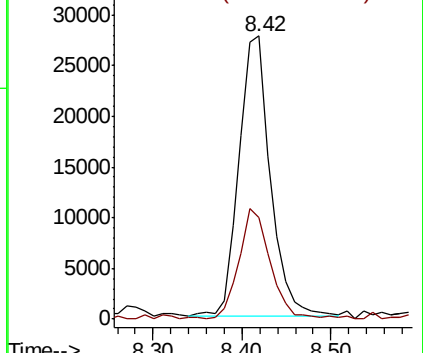
43 100

58 36.0 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: 3.202 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

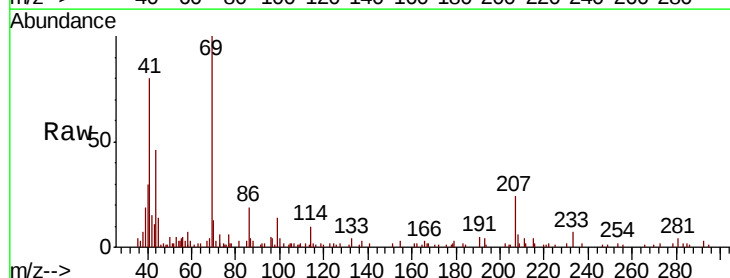
Tgt Ion: 69 Resp: 21556

Ion Ratio Lower Upper

69 100

41 80.3 51.4 77.2#

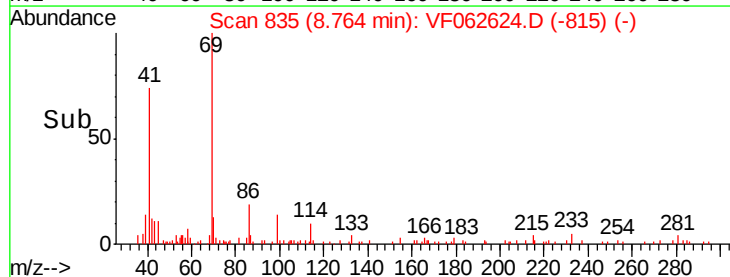
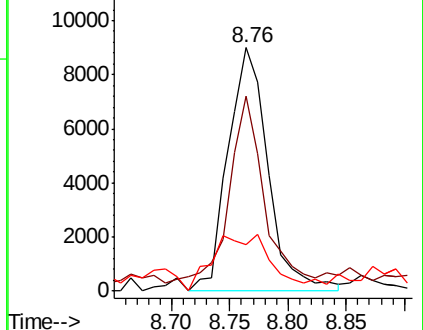
39 19.3 23.6 35.4#

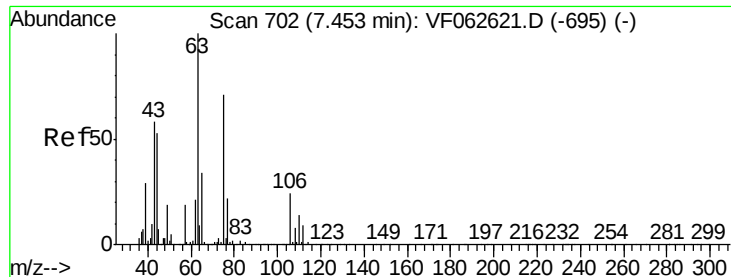


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

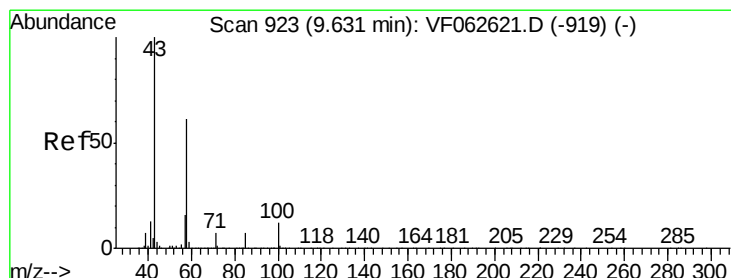
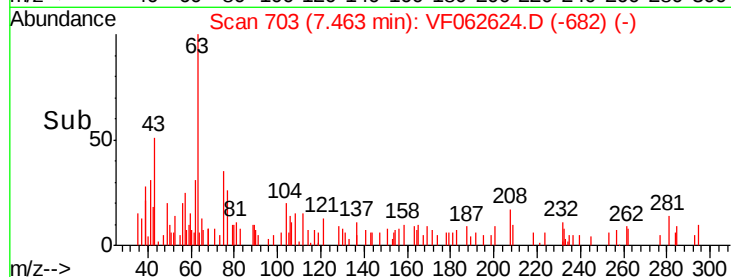
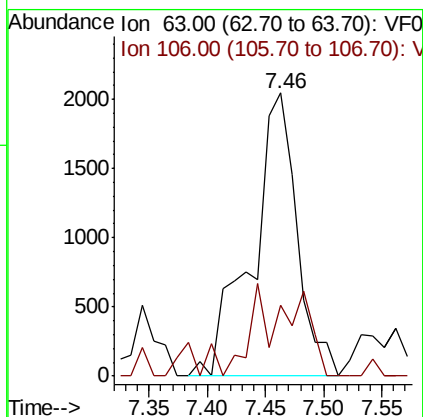
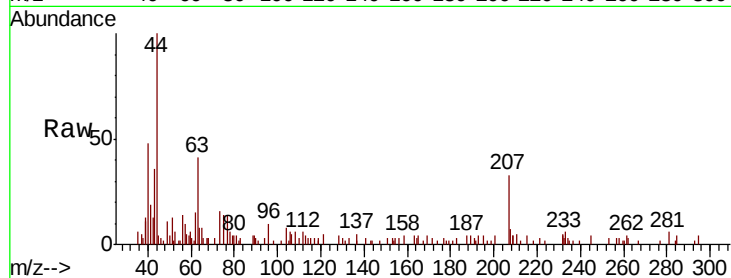




#58
2-Chloroethyl Vinyl ether
Concen: 2.509 ug/l
RT: 7.46 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

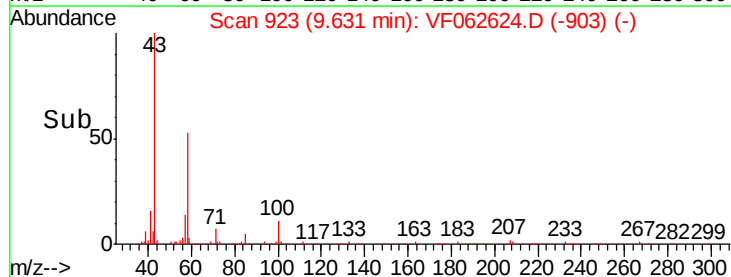
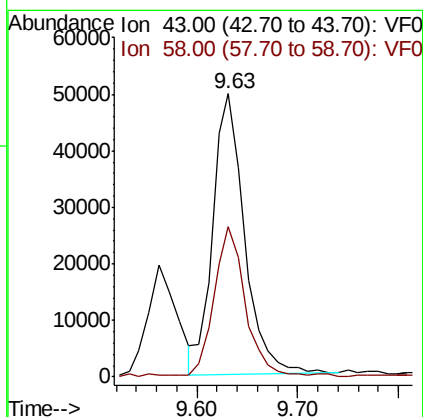
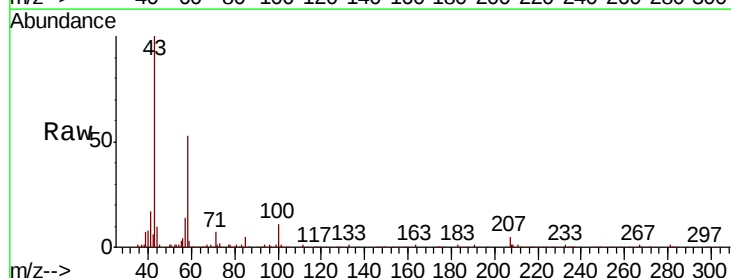
Instrument :
MSVOA_F
ClientSampleId :
VIBLK

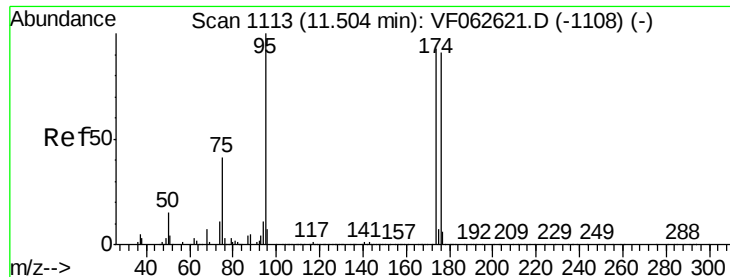
Tot Ion: 63 Resp: 5498
Ion Ratio Lower Upper
63 100
106 25.2 19.1 28.7



#59
2-Hexanone
Concen: 18.068 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

Tgt Ion: 43 Resp: 108732
Ion Ratio Lower Upper
43 100
58 53.0 28.1 84.4

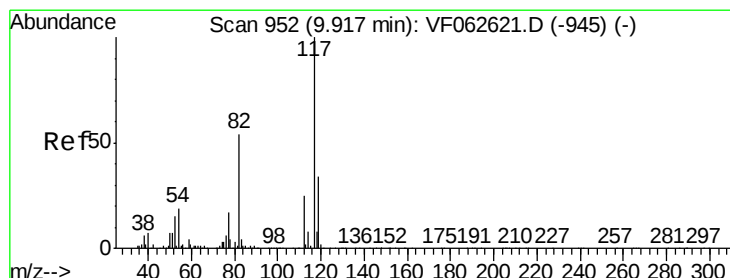
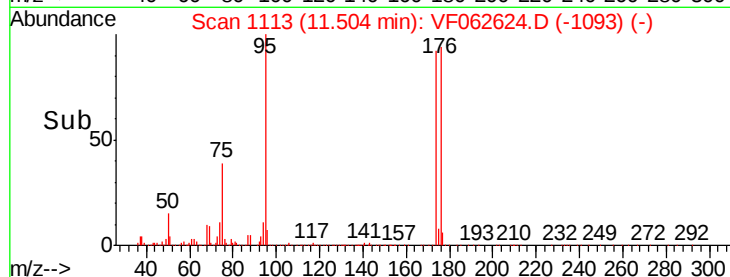
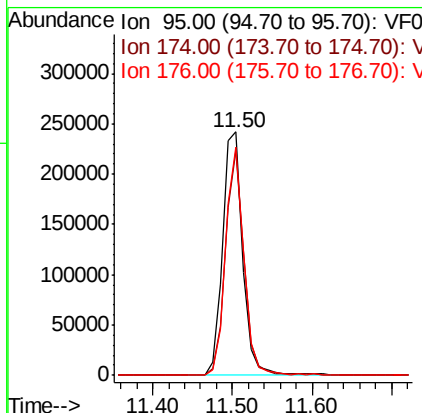
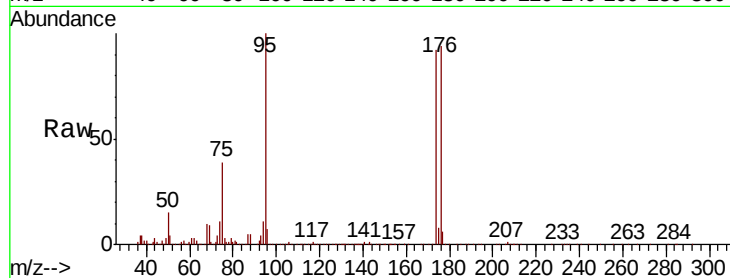




#62
4-Bromofluorobenzene
Concen: 48.105 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

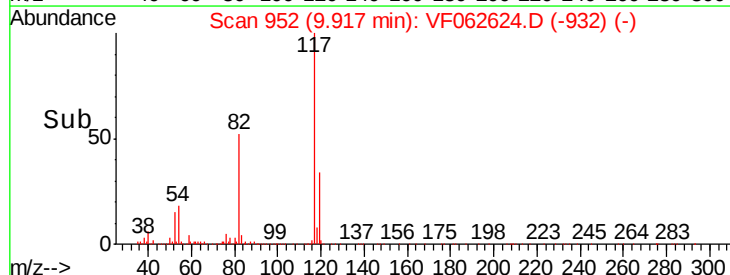
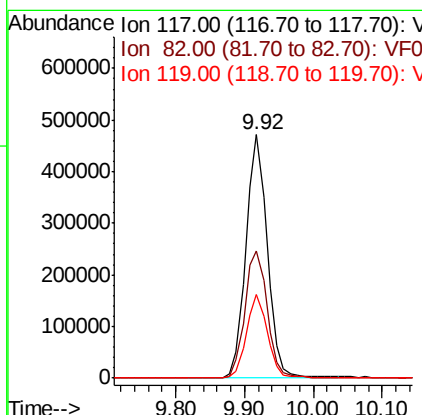
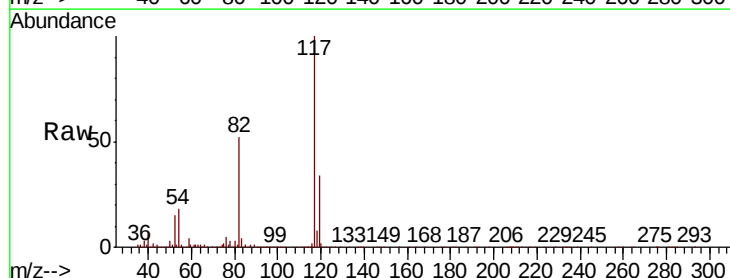
Instrument :
MSVOA_F
ClientSampleId :
VIBLK

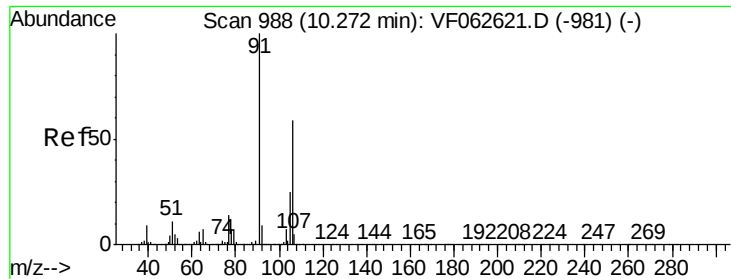
Tot Ion: 95 Resp: 434493
Ion Ratio Lower Upper
95 100
174 92.3 0.0 185.6
176 93.8 0.0 182.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

Tgt Ion: 117 Resp: 1022553
Ion Ratio Lower Upper
117 100
82 52.4 43.3 64.9
119 34.1 27.4 41.0





#68

m/p-Xvlenes

Concen: 1.090 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

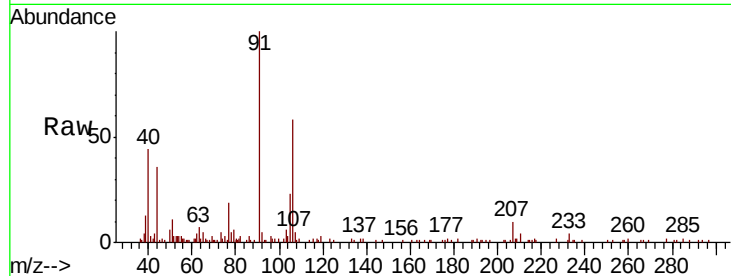
VIBLK

Tot Ion:106 Resp: 14296

Ion Ratio Lower Upper

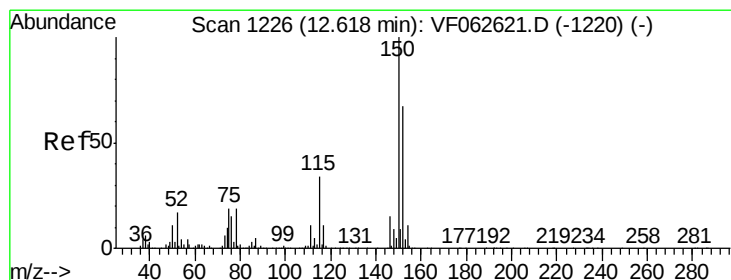
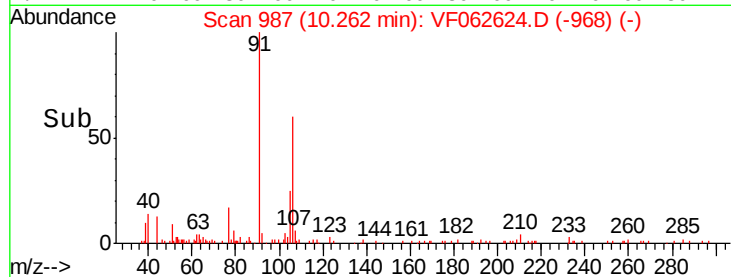
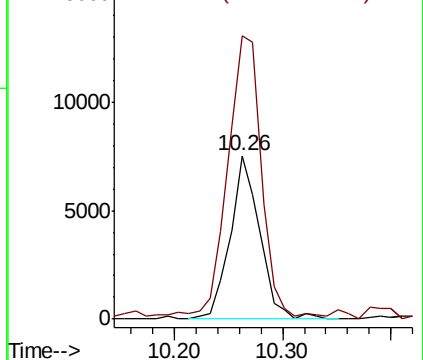
106 100

91 173.4 136.9 205.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

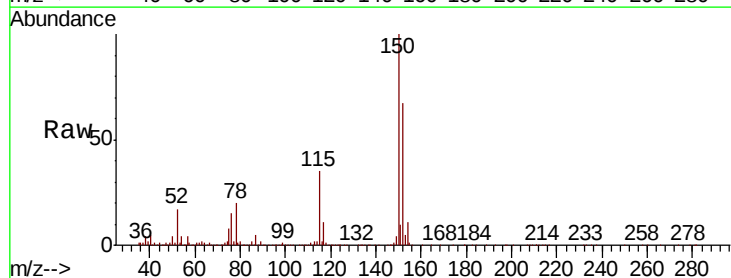
Tgt Ion:152 Resp: 503078

Ion Ratio Lower Upper

152 100

115 51.2 25.2 75.6

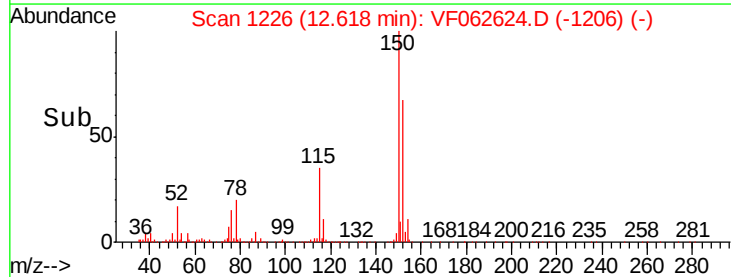
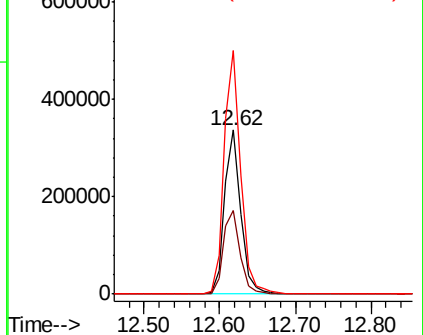
150 148.4 0.0 306.2

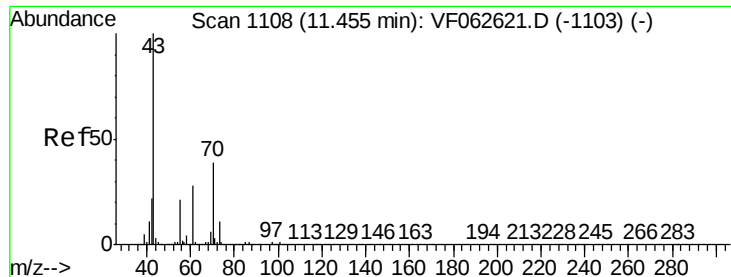


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 4.311 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

Tot Ion: 43 Resp: 84790

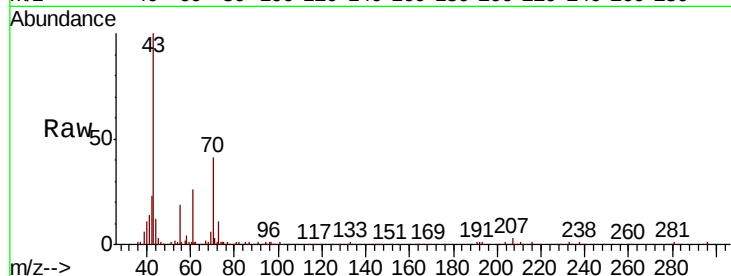
Ion Ratio Lower Upper

43 100

70 40.6 30.9 46.3

55 19.4 17.0 25.4

61 26.2 22.6 34.0

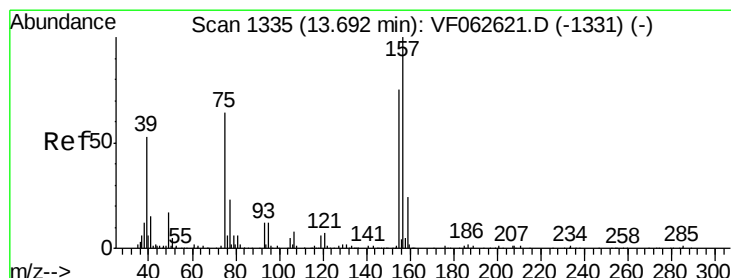
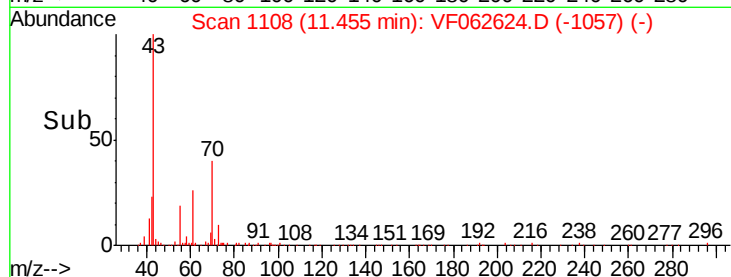
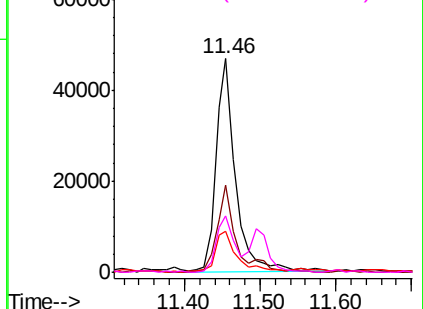


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.063 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VF062624.D

Acq: 16 May 2019 13:41

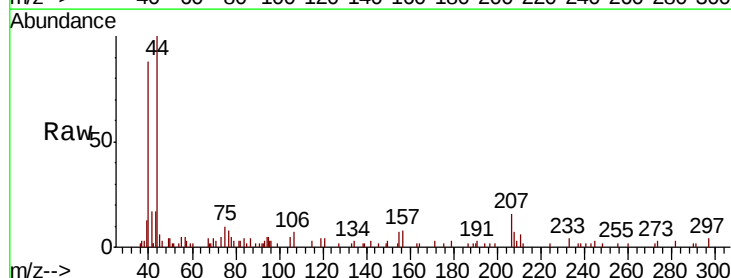
Tgt Ion: 75 Resp: 934

Ion Ratio Lower Upper

75 100

155 72.4 58.1 174.3

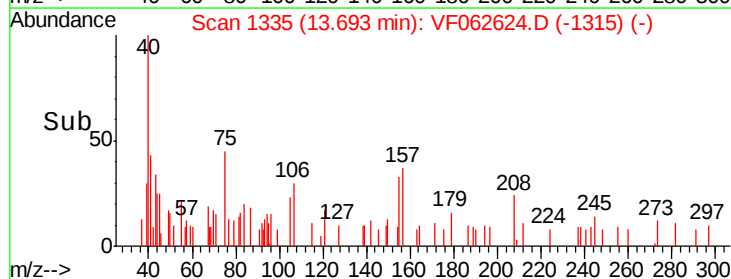
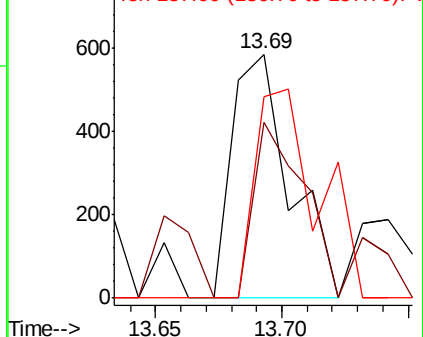
157 82.4 77.8 233.4

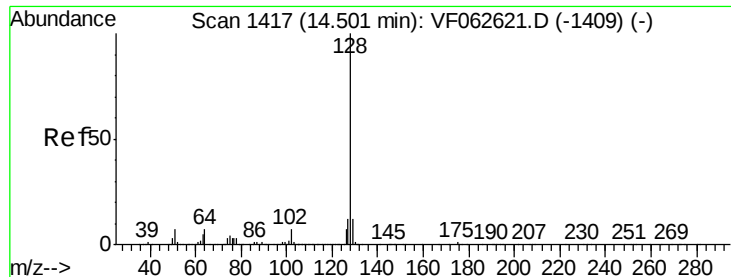


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#95
Naphthalene
Concen: 3.775 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062624.D
Acq: 16 May 2019 13:41

Instrument :
MSVOA_F
ClientSampleId :
VIBLK

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.7	14.5
129	10.9	9.3	13.9

