

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062461.D
 Acq On : 11 May 2019 15:44
 Operator : FY/SY
 Sample : K2719-21RE
 Misc : 3.39g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS011-1218-01RE

Quant Time: May 12 03:47:08 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	167295	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	204528	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	94818	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	29916	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	107008	67.68	ug/l	0.01
Spiked Amount			Recovery	=	135.36%	
35) Dibromofluoromethane	4.32	113	109074	66.94	ug/l	0.01
Spiked Amount			Recovery	=	133.88%	
50) Toluene-d8	7.72	98	140063	35.51	ug/l	0.01
Spiked Amount			Recovery	=	71.02%	
62) 4-Bromofluorobenzene	11.50	95	34165	19.20	ug/l	0.01
Spiked Amount			Recovery	=	38.40%	

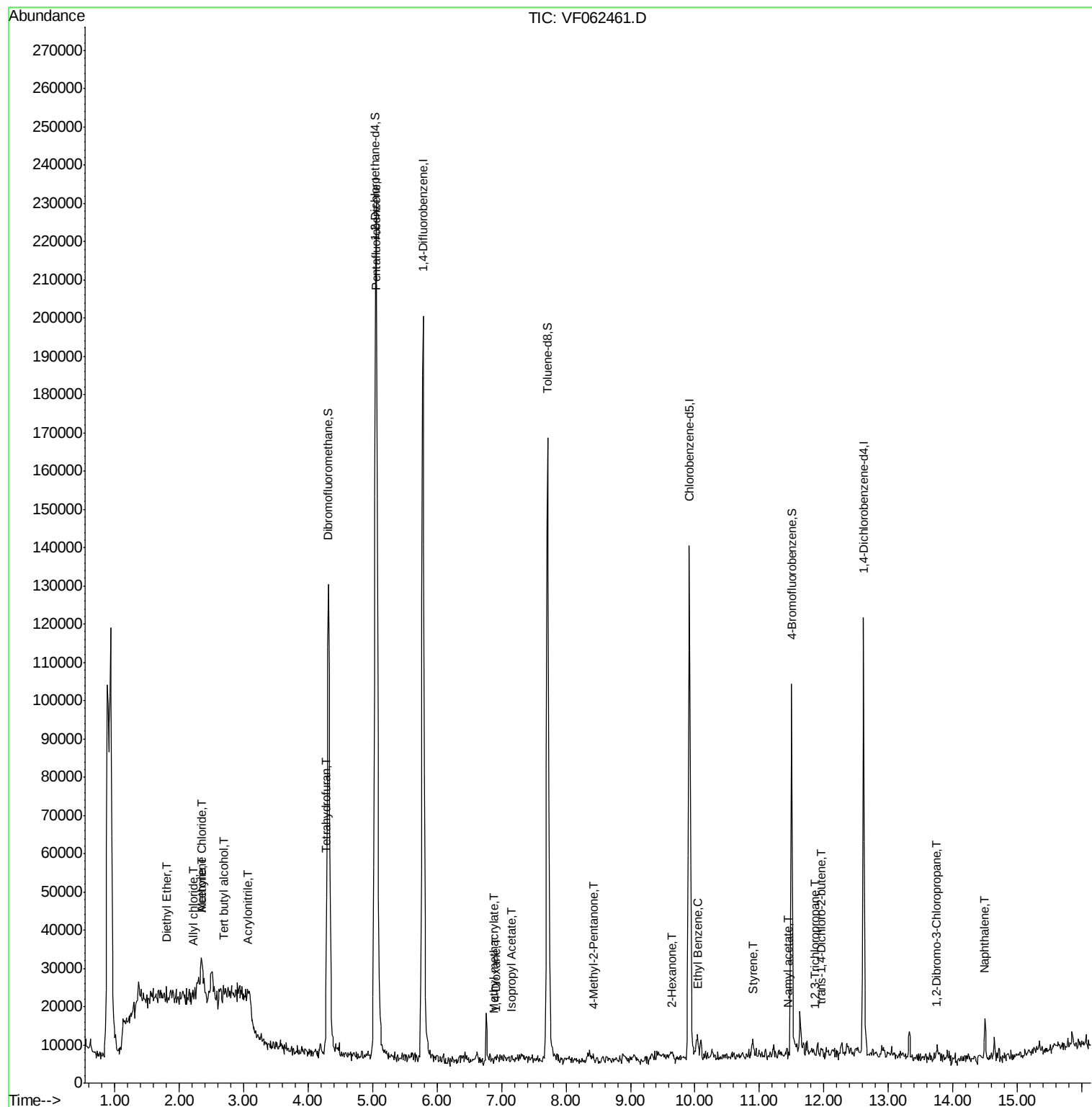
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.47	94	874	Below Cal	#	65
8) Diethyl Ether	1.80	74	402	1.005	ug/l	61
11) Tert butyl alcohol	2.68	59	186	2.082	ug/l #	1
13) Acrolein	2.09	56	945	Below Cal	#	13
14) Allyl chloride	2.21	41	1658	1.463	ug/l #	10
15) Acrylonitrile	3.07	53	612	3.616	ug/l #	32
16) Acetone	2.34	43	13801	43.152	ug/l	96
20) Methylene Chloride	2.34	84	4406	3.808	ug/l #	65
29) Tetrahydrofuran	4.28	42	507	2.745	ug/l #	46
37) Ethyl Acetate	4.34	43	490	Below Cal	#	68
38) Carbon Tetrachloride	4.17	117	180	Below Cal	#	37
43) Isopropyl Acetate	7.14	43	901	1.127	ug/l #	66
48) Methyl methacrylate	6.89	41	1076	1.905	ug/l #	51
49) 1,4-Dioxane	6.91	88	153	13.450	ug/l #	1
51) 4-Methyl-2-Pentanone	8.42	43	1065	1.759	ug/l	88
59) 2-Hexanone	9.65	43	1176	2.808	ug/l	71
67) Ethyl Benzene	10.03	91	4202	1.530	ug/l #	69
70) Styrene	10.89	104	2881	1.755	ug/l #	84
74) N-amyl acetate	11.45	43	895	2.351	ug/l #	53
76) 1,2,3-Trichloropropane	11.87	75	367	1.732	ug/l #	100
81) trans-1,4-Dichloro-2-buten	11.95	75	199	2.499	ug/l #	41
92) 1,2-Dibromo-3-Chloropropan	13.74	75	134	2.154	ug/l #	1
95) Naphthalene	14.50	128	1207	1.088	ug/l #	76

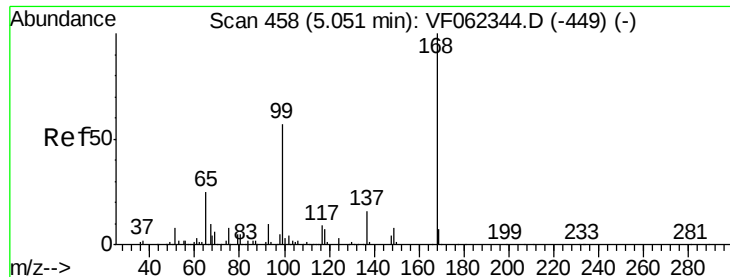
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

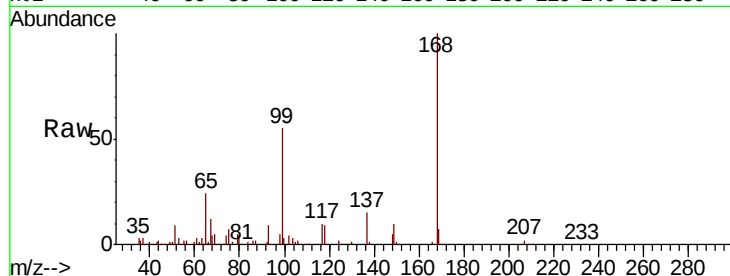
P026-SS011-1218-01RE

Tot Ion:168 Resp: 167295

Ion Ratio Lower Upper

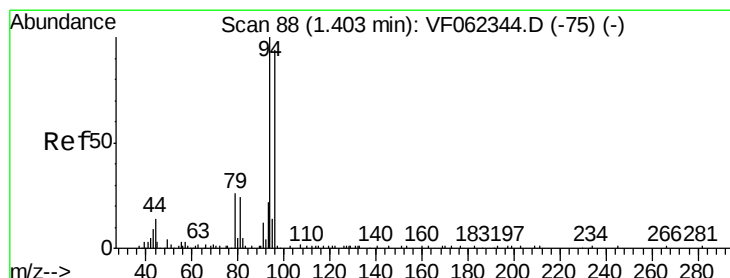
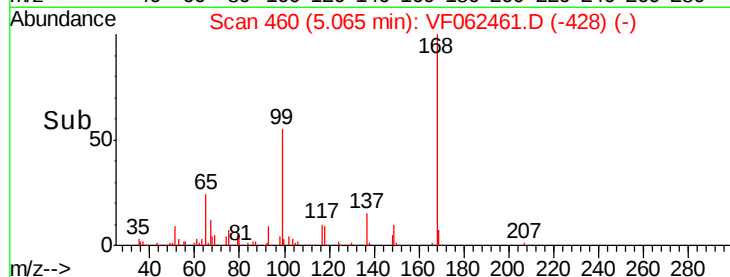
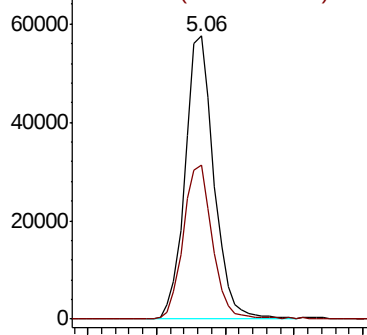
168 100

99 54.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.47 min Scan# 95

Delta R.T. 0.06 min

Lab File: VF062461.D

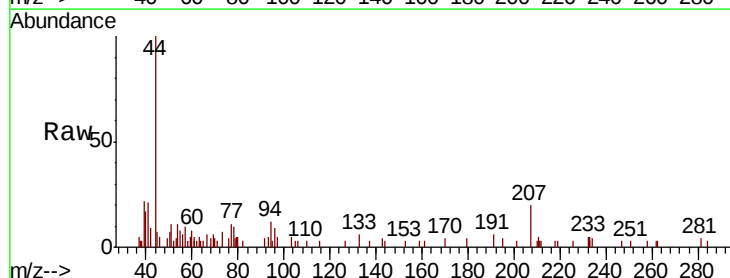
Acq: 11 May 2019 15:44

Tgt Ion: 94 Resp: 874

Ion Ratio Lower Upper

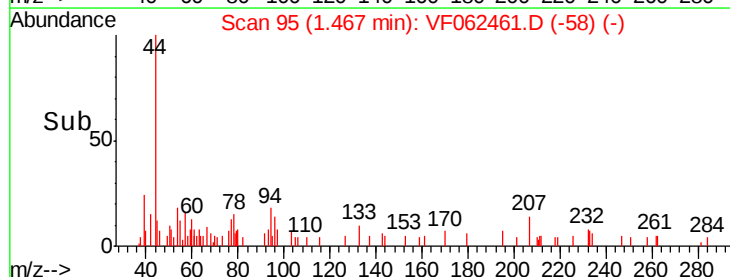
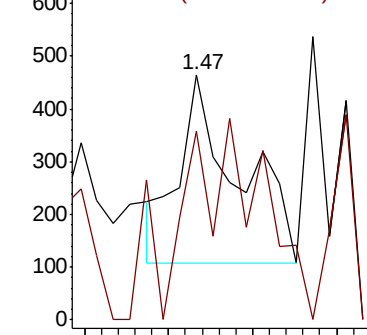
94 100

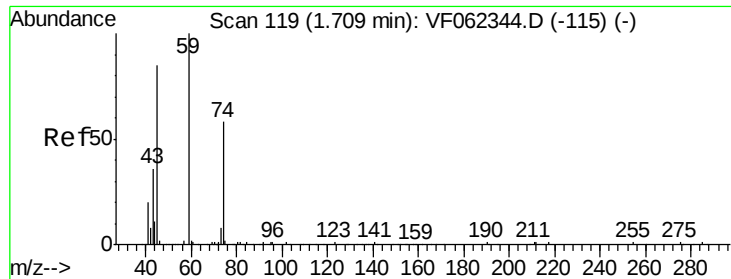
96 60.2 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0





#8

Diethyl Ether

Concen: 1.005 ug/l

RT: 1.80 min Scan# 129

Delta R.T. 0.09 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

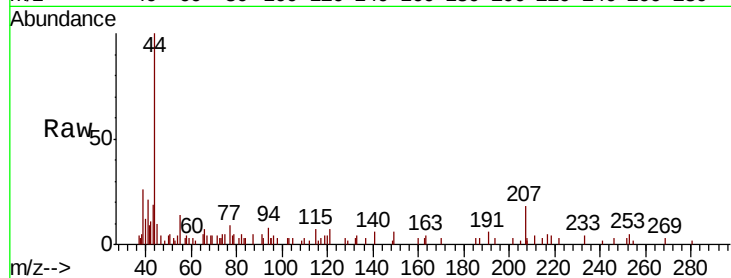
P026-SS011-1218-01RE

Tot Ion: 74 Resp: 402

Ion Ratio Lower Upper

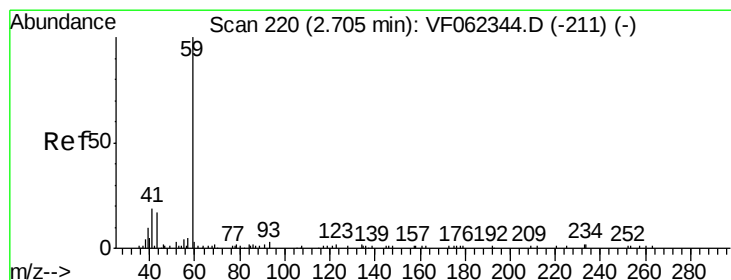
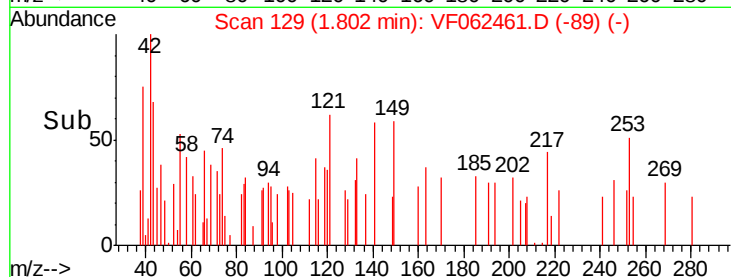
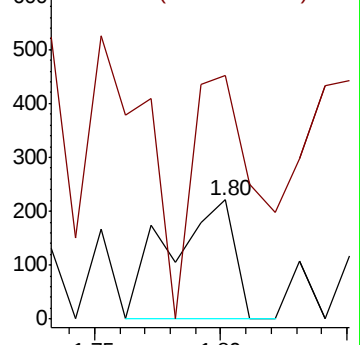
74 100

45 196.3 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: 2.082 ug/l

RT: 2.68 min Scan# 218

Delta R.T. -0.03 min

Lab File: VF062461.D

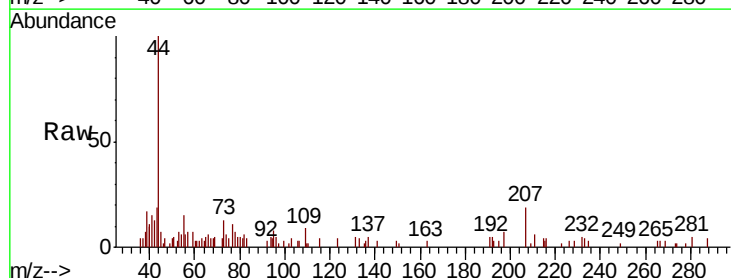
Acq: 11 May 2019 15:44

Tgt Ion: 59 Resp: 186

Ion Ratio Lower Upper

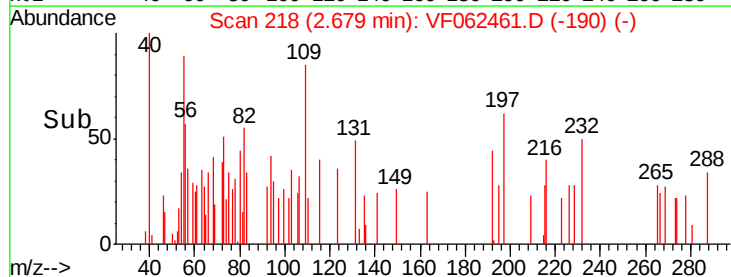
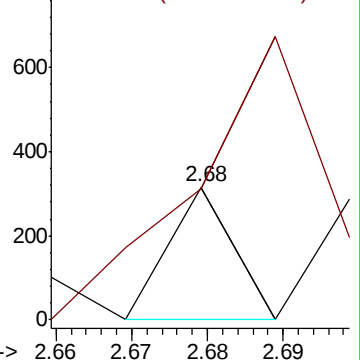
59 100

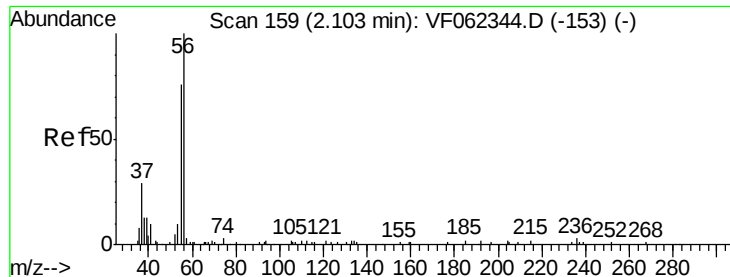
57 615.6 9.3 13.9#



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: 2.09 min Scan# 158

Delta R.T. -0.02 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

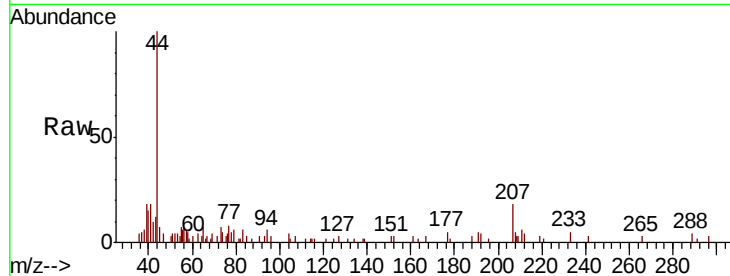
Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1218-01RE

Tot Ion: 56 Resp: 945

Ion Ratio Lower Upper

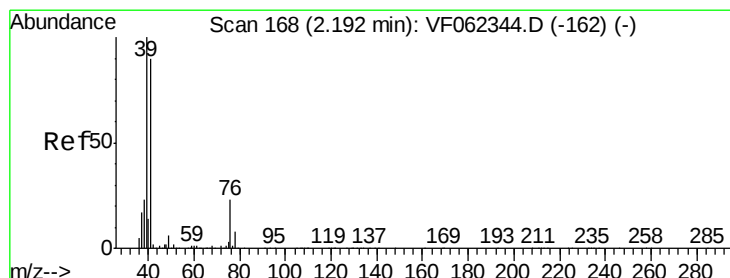
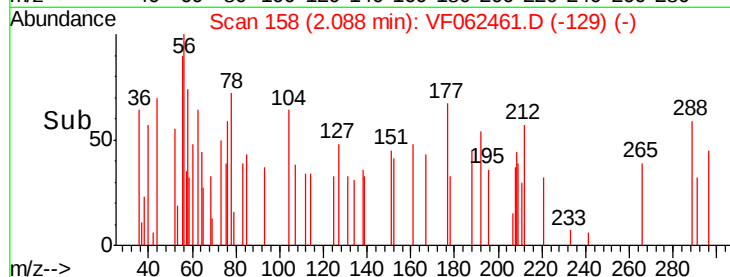
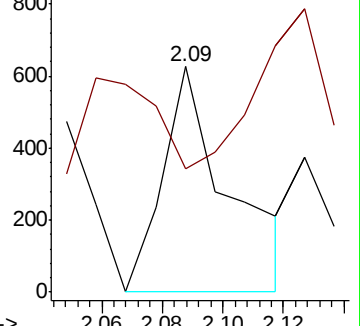
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 1.463 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

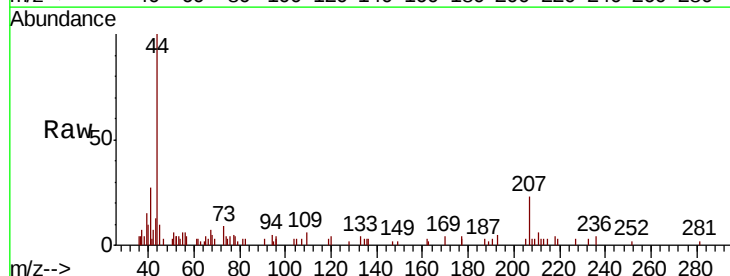
Tgt Ion: 41 Resp: 1658

Ion Ratio Lower Upper

41 100

39 0.0 90.8 136.2#

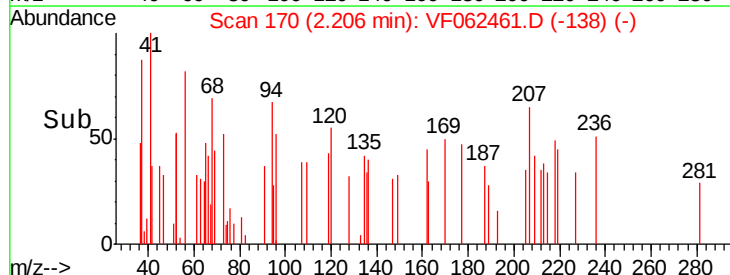
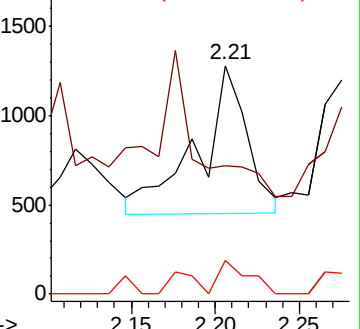
76 14.1 22.2 33.4#

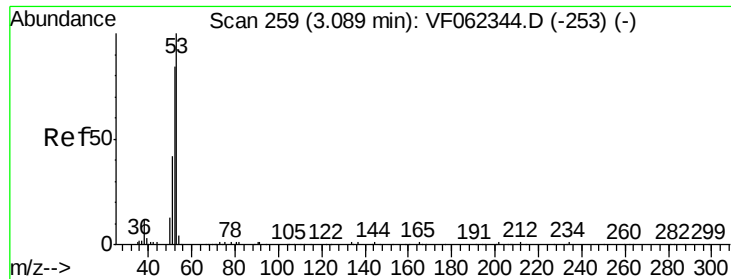


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 75.90 (75.60 to 76.60): VF0

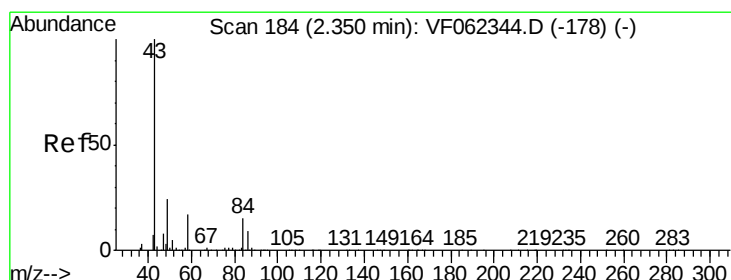
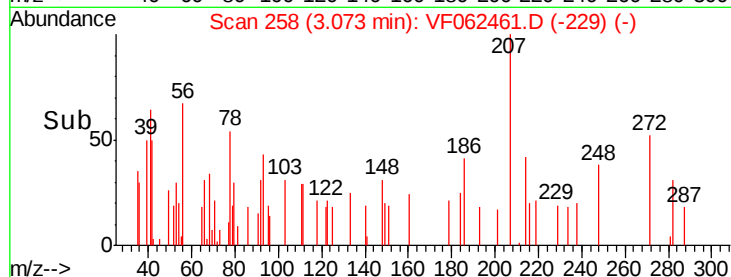
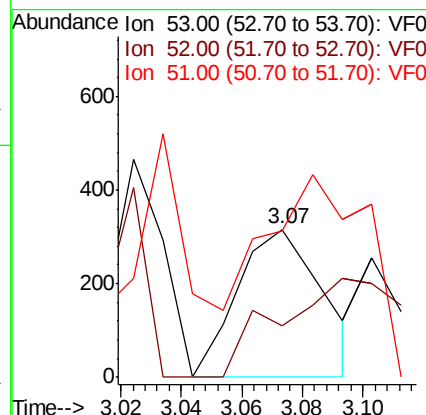
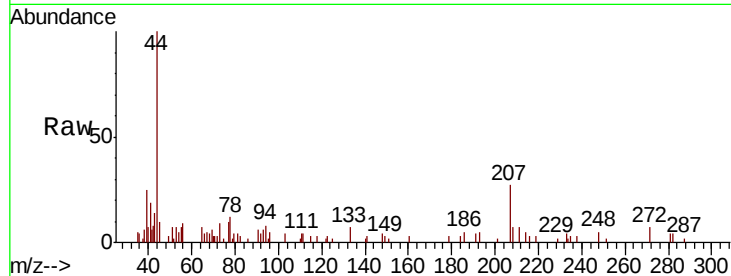




#15
 Acrylonitrile
 Concen: 3.616 ug/l
 RT: 3.07 min Scan# 258
 Delta R.T. -0.02 min
 Lab File: VF062461.D
 Acq: 11 May 2019 15:44

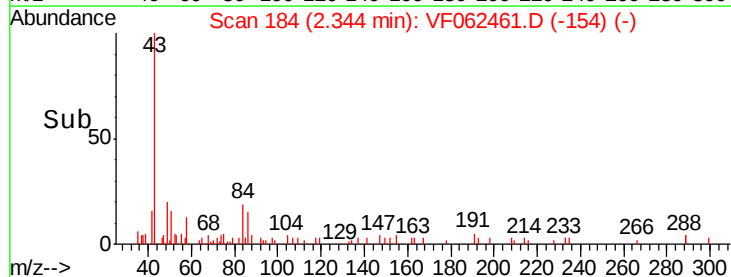
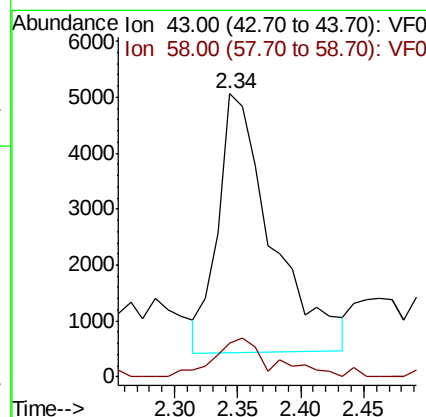
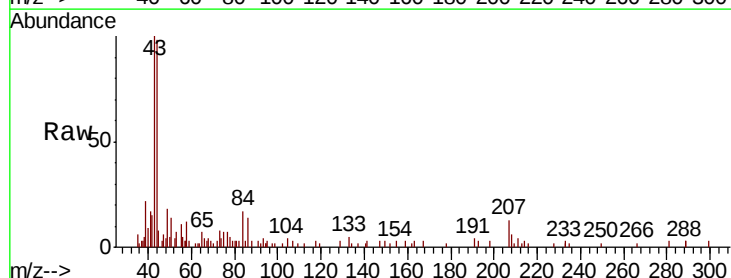
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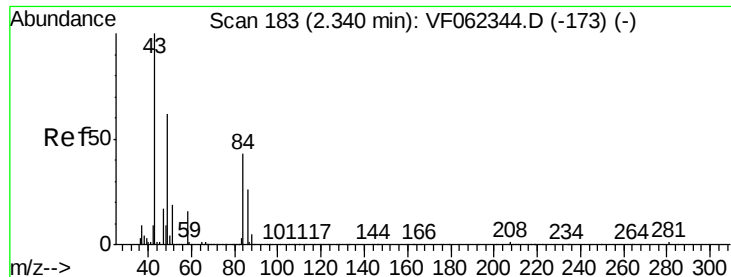
Tot Ion: 53 Resp: 612
 Ion Ratio Lower Upper
 53 100
 52 110.1 77.2 115.8
 51 168.8 40.6 61.0#



#16
 Acetone
 Concen: 43.152 ug/l
 RT: 2.34 min Scan# 184
 Delta R.T. -0.01 min
 Lab File: VF062461.D
 Acq: 11 May 2019 15:44

Tgt Ion: 43 Resp: 13801
 Ion Ratio Lower Upper
 43 100
 58 14.8 13.1 19.7

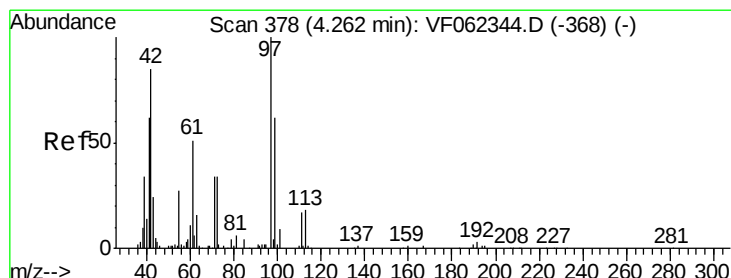
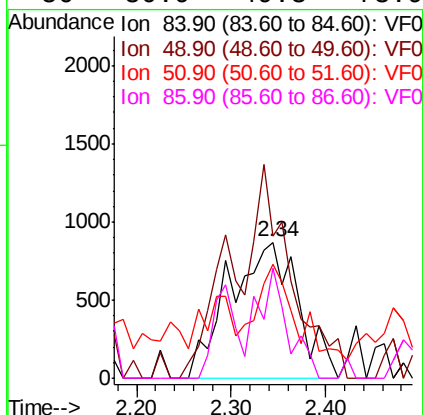
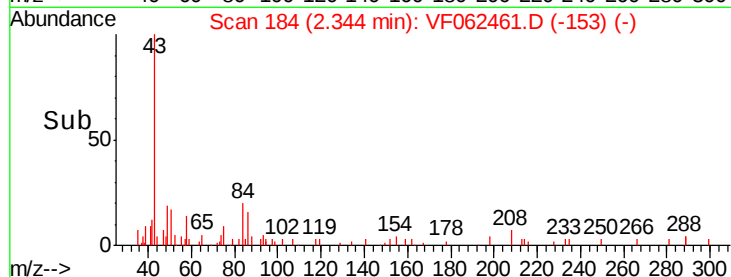
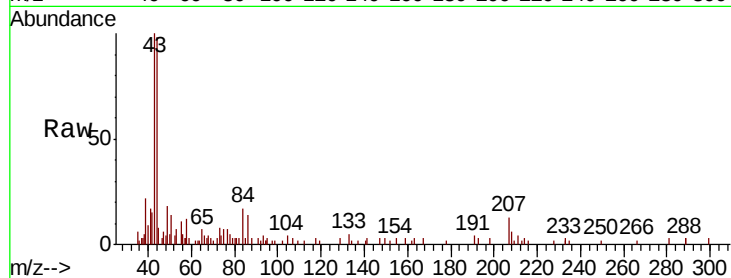




#20
Methvlene Chloride
Concen: 3.808 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

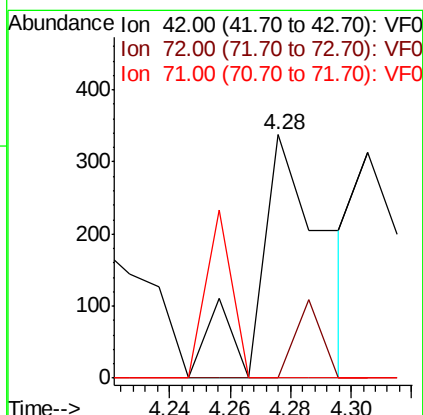
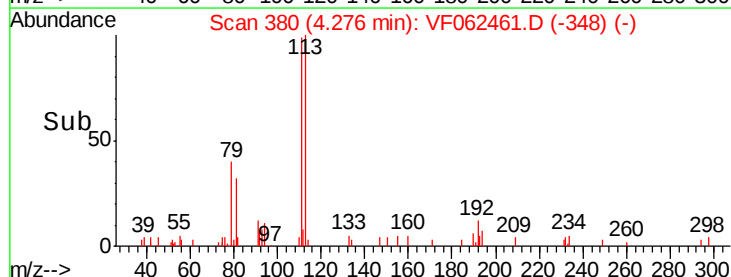
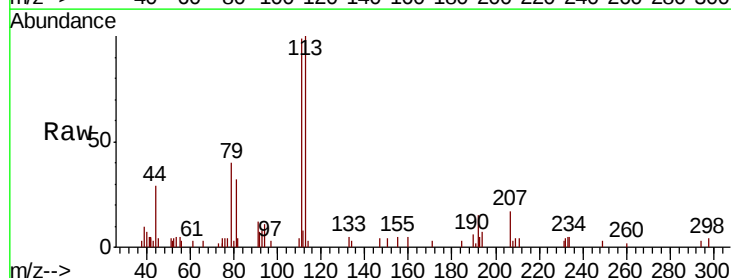
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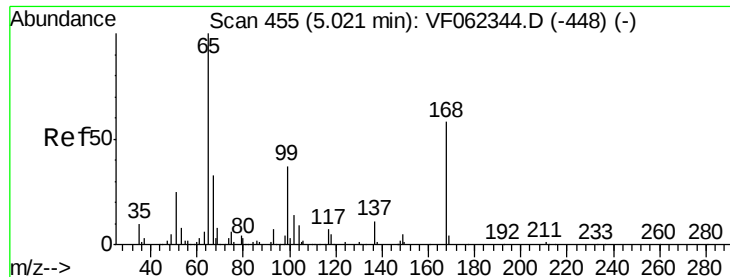
Tot Ion: 84 Resp: 4406
Ion Ratio Lower Upper
84 100
49 92.8 117.5 176.3#
51 62.5 37.0 55.4#
86 80.9 49.3 73.9#



#29
Tetrahydrofuran
Concen: 2.745 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.01 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Tgt Ion: 42 Resp: 507
Ion Ratio Lower Upper
42 100
72 12.6 31.4 47.0#
71 0.0 31.7 47.5#

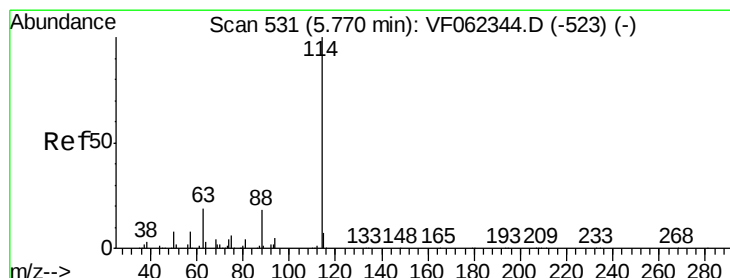
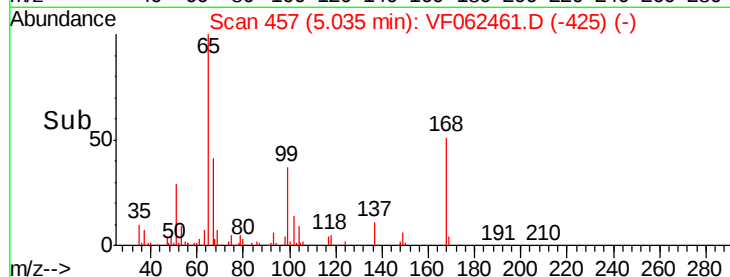
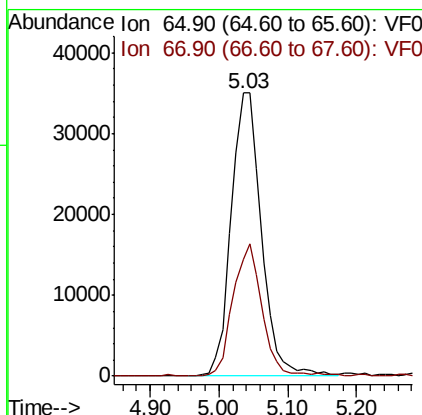
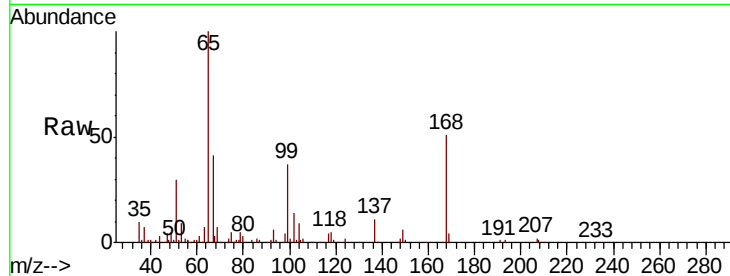




#33
 1,2-Dichloroethane-d4
 Concen: 67.683 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VF062461.D
 Acq: 11 May 2019 15:44

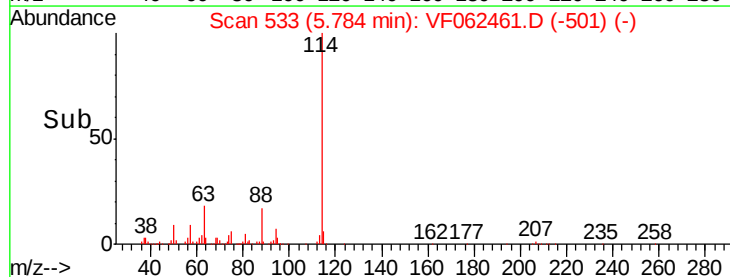
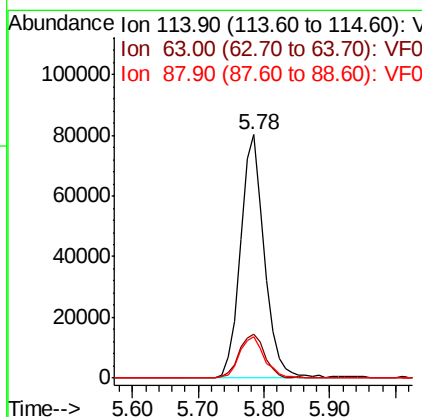
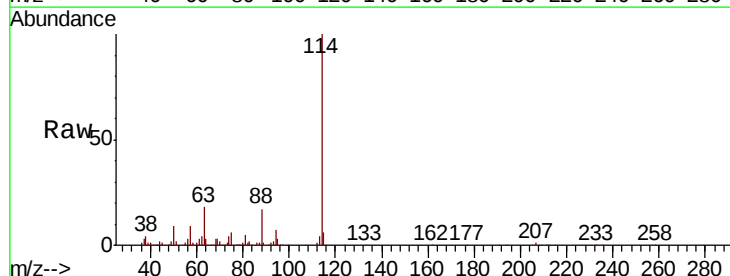
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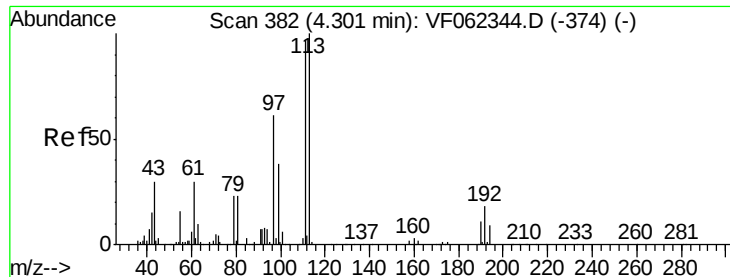
Tot Ion: 65 Resp: 107008
 Ion Ratio Lower Upper
 65 100
 67 45.1 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062461.D
 Acq: 11 May 2019 15:44

Tgt Ion: 114 Resp: 204528
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 37.4
 88 16.8 0.0 36.4

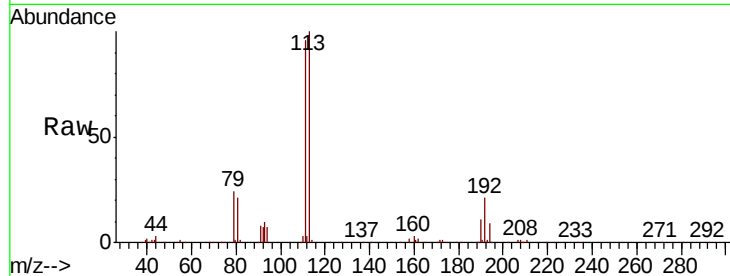




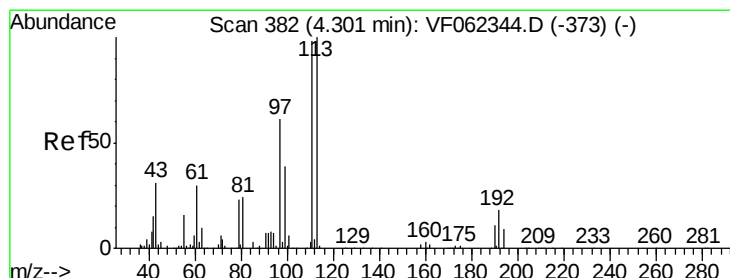
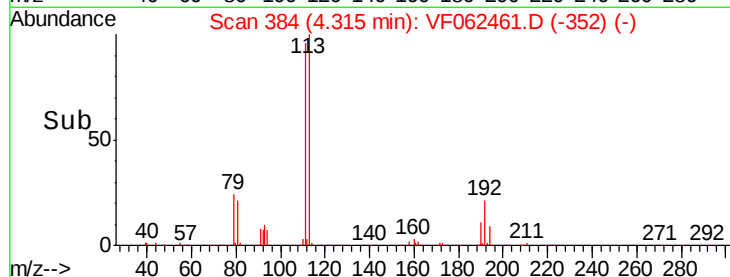
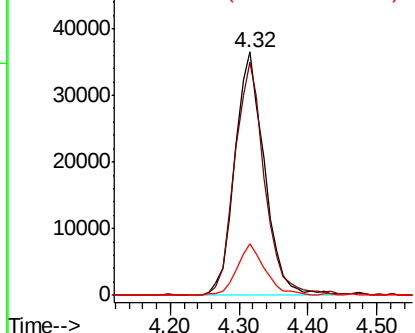
#35
Dibromofluoromethane
Concen: 66.940 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1218-01RE

Tot Ion:113 Resp: 109074
Ion Ratio Lower Upper
113 100
111 96.7 79.4 119.0
192 20.0 16.0 24.0

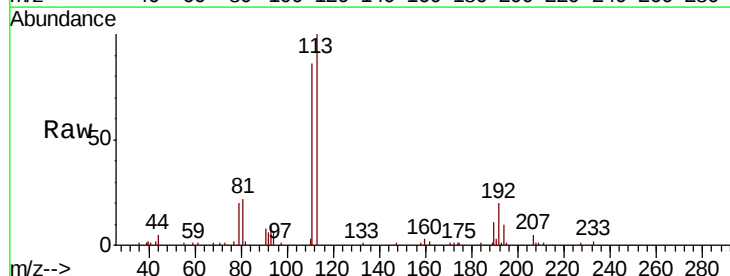


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

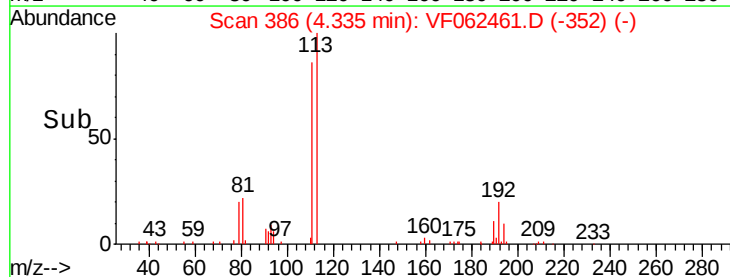
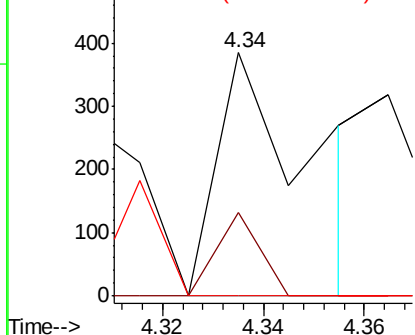


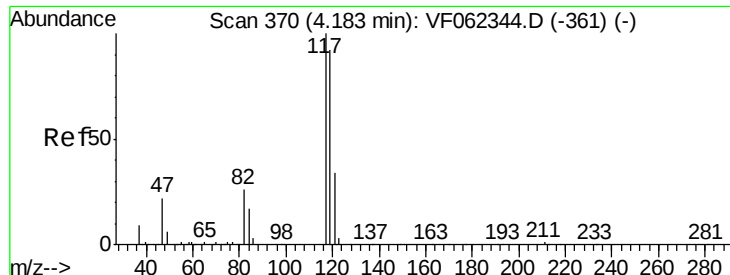
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 386
Delta R.T. 0.03 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Tgt Ion: 43 Resp: 490
Ion Ratio Lower Upper
43 100
61 15.9 0.0 0.0#
70 22.0 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: 4.17 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1218-01RE

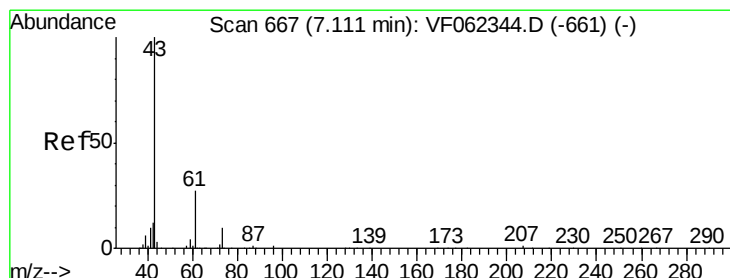
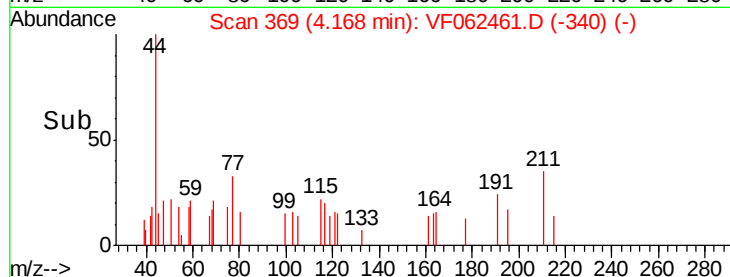
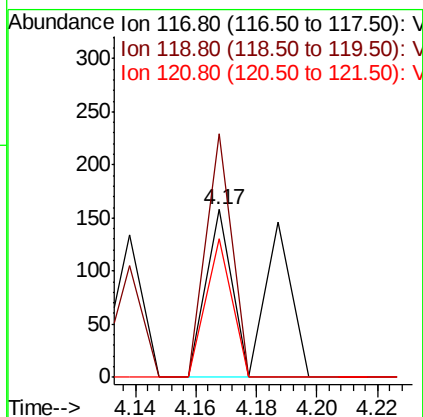
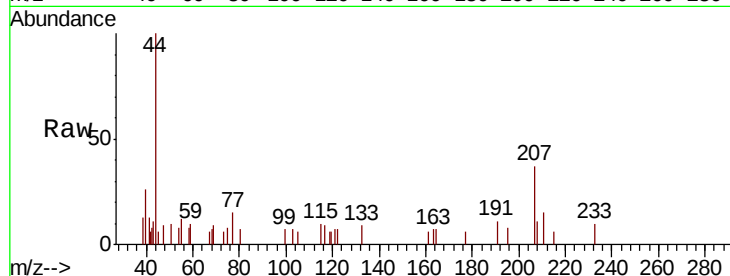
Tot Ion:117 Resp: 180

Ion Ratio Lower Upper

117 100

119 144.9 73.4 110.2#

121 82.3 27.4 41.0#



#43

Isopropyl Acetate

Concen: 1.127 ug/l

RT: 7.14 min Scan# 671

Delta R.T. 0.03 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

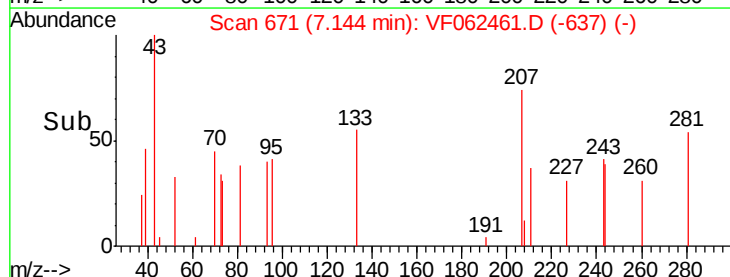
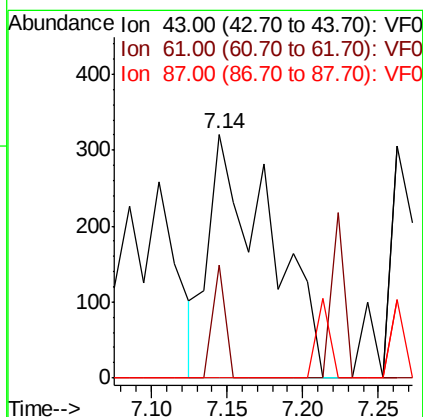
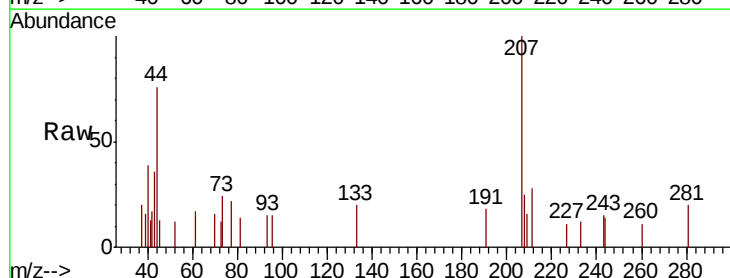
Tgt Ion: 43 Resp: 901

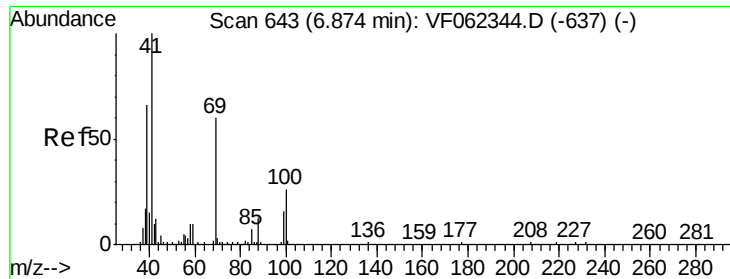
Ion Ratio Lower Upper

43 100

61 9.8 22.8 34.2#

87 0.0 0.6 1.0#

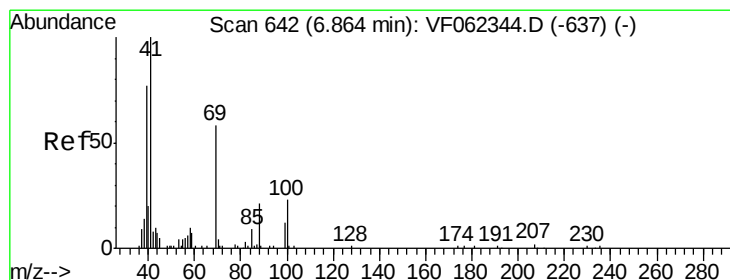
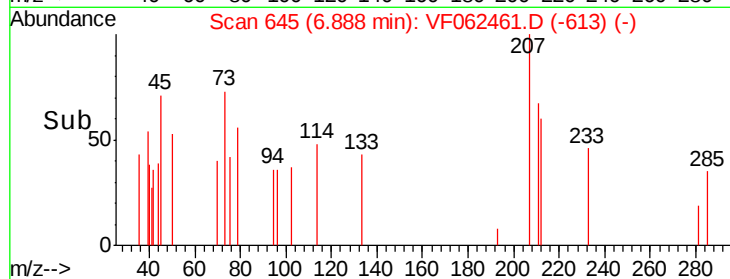
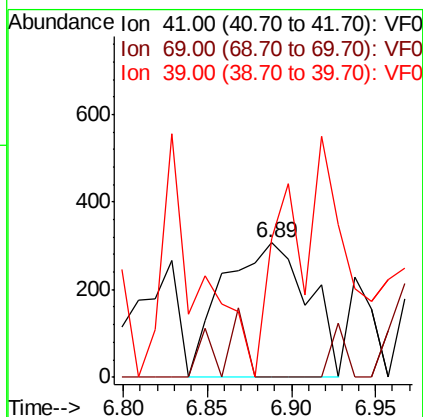
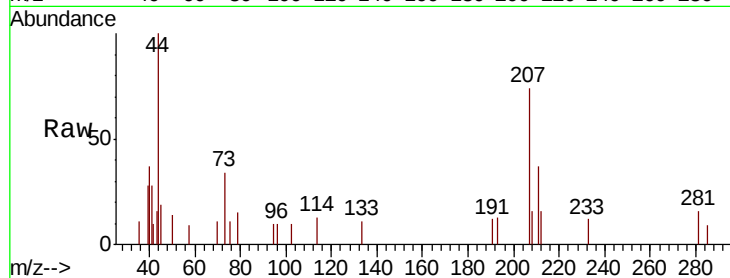




#48
Methyl methacrylate
Concen: 1.905 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.01 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

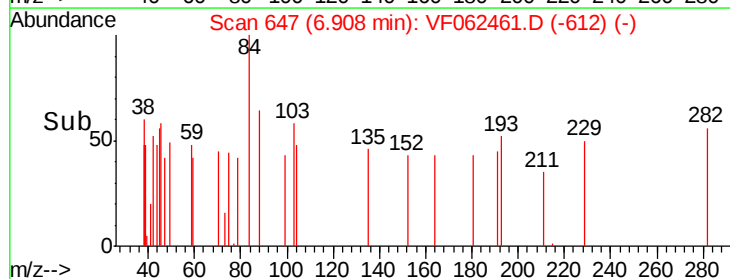
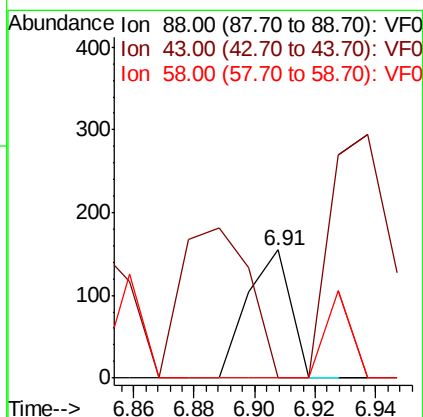
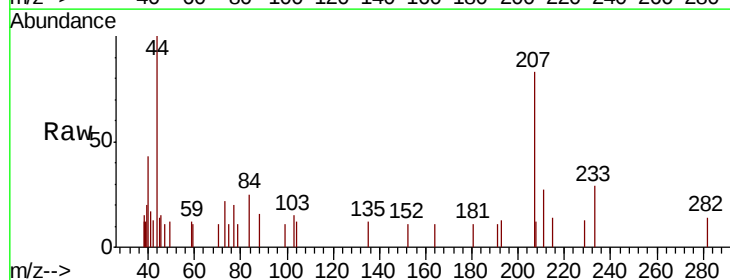
Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1218-01RE

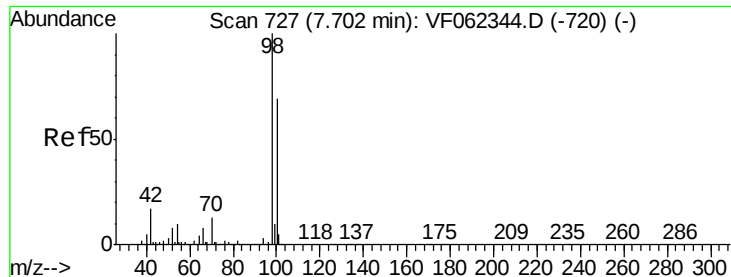
Tot Ion: 41 Resp: 1076
Ion Ratio Lower Upper
41 100
69 0.0 48.6 72.8#
39 52.0 56.1 84.1#



#49
1,4-Dioxane
Concen: 13.450 ug/l
RT: 6.91 min Scan# 647
Delta R.T. 0.04 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Tgt Ion: 88 Resp: 153
Ion Ratio Lower Upper
88 100
43 186.3 55.6 83.4#
58 0.0 52.8 79.2#





#50

Toluene-d8

Concen: 35.510 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

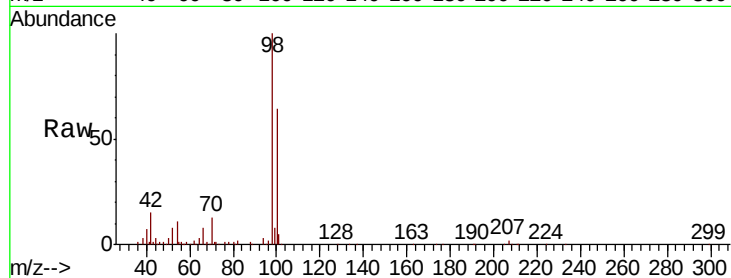
P026-SS011-1218-01RE

Tot Ion: 98 Resp: 140063

Ion Ratio Lower Upper

98 100

100 64.5 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

60000

40000

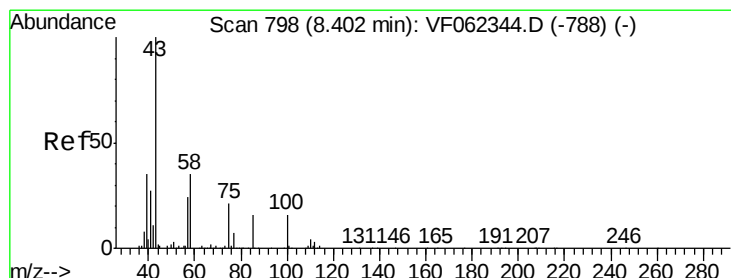
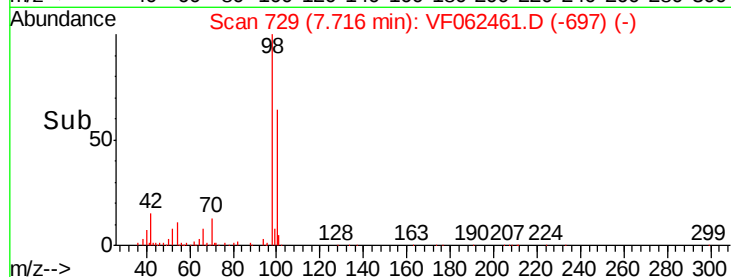
20000

0

7.72

7.60 7.70 7.80 7.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.759 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062461.D

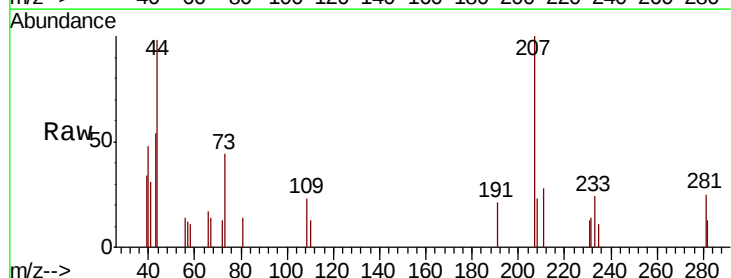
Acq: 11 May 2019 15:44

Tgt Ion: 43 Resp: 1065

Ion Ratio Lower Upper

43 100

58 27.8 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

500

400

300

200

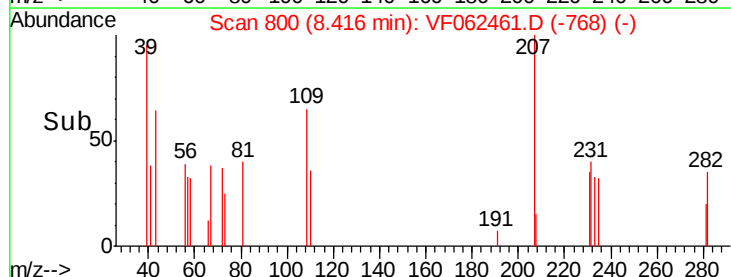
100

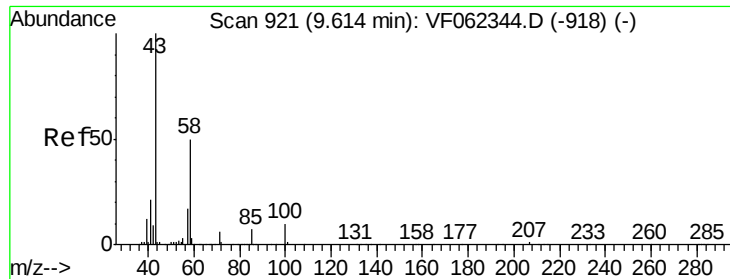
0

8.42

8.35 8.40 8.45

Time-->

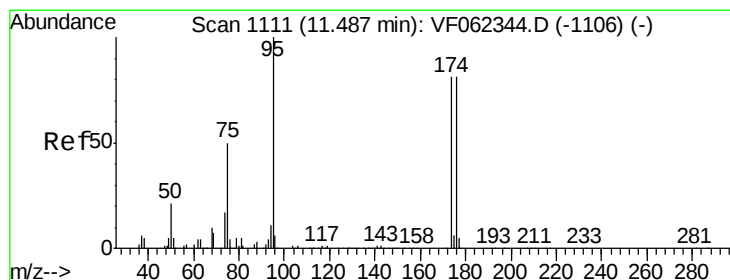
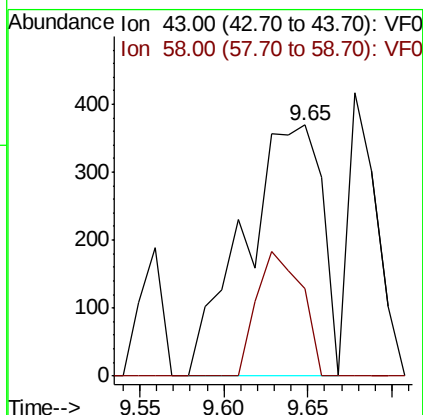
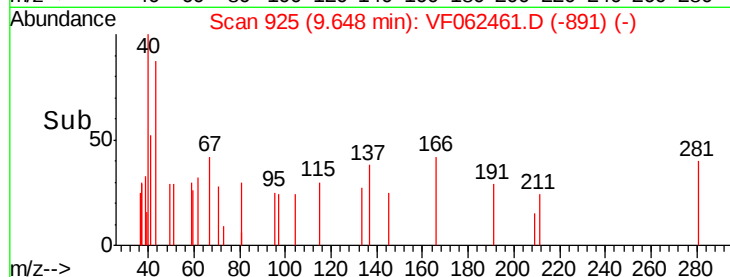
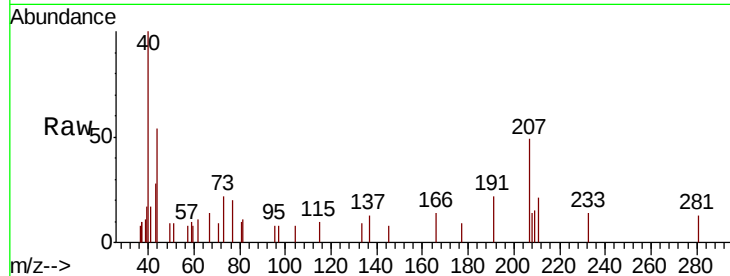




#59
2-Hexanone
Concen: 2.808 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.03 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

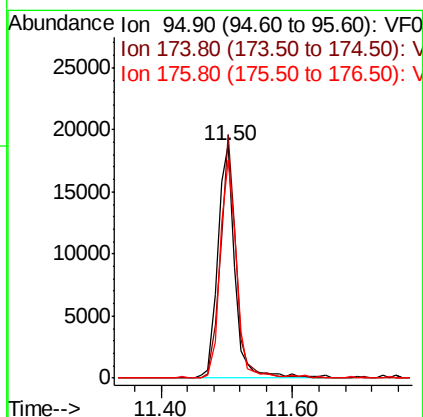
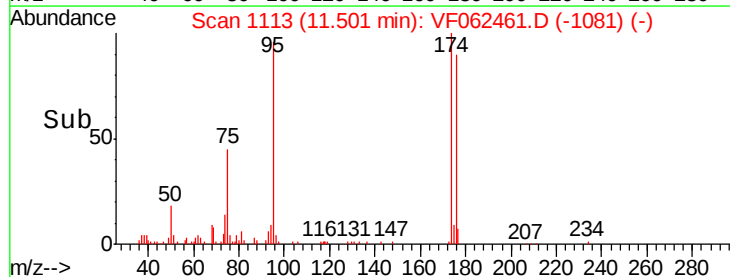
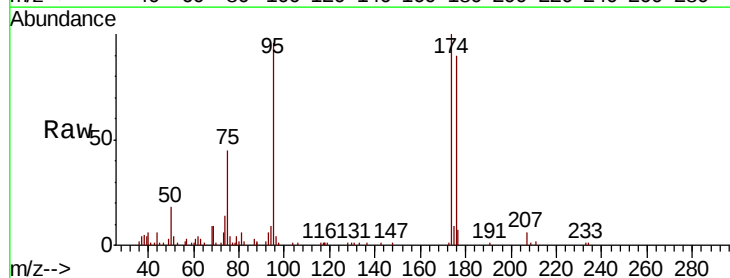
Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1218-01RE

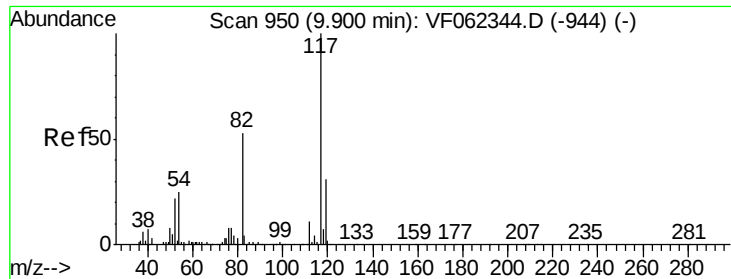
Tot Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
58 29.0 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 19.199 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Tgt Ion: 95 Resp: 34165
Ion Ratio Lower Upper
95 100
174 93.9 0.0 191.8
176 89.1 0.0 193.2

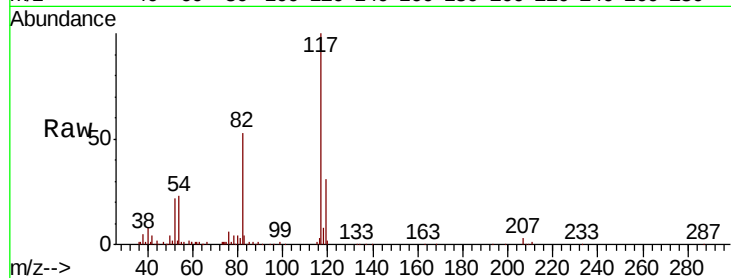




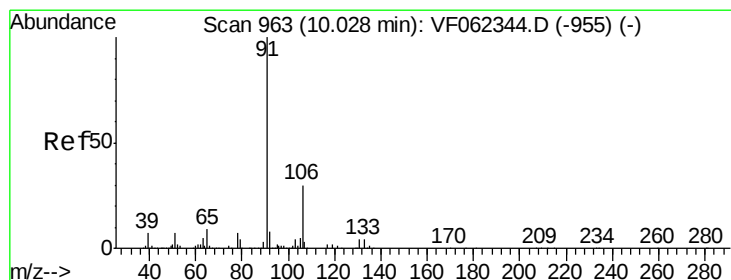
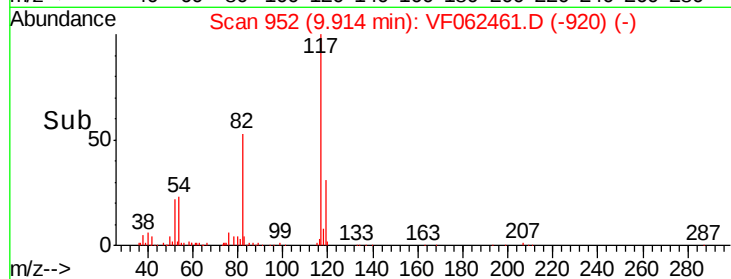
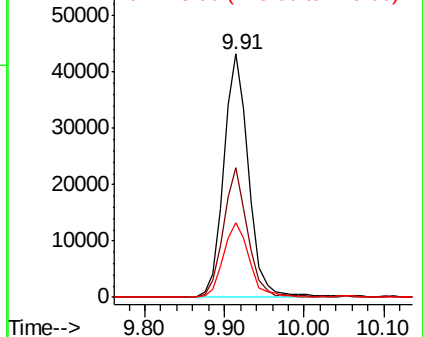
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1218-01RE

Tot Ion:117 Resp: 94818
Ion Ratio Lower Upper
117 100
82 53.0 42.2 63.2
119 30.9 25.0 37.4

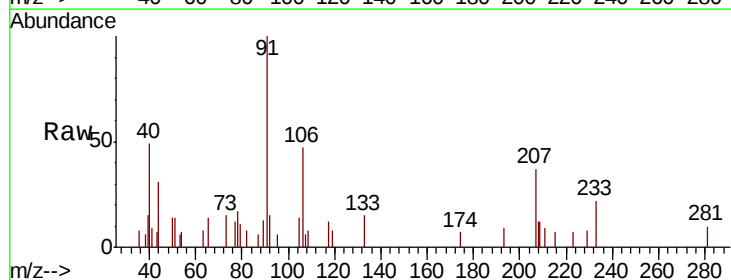


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

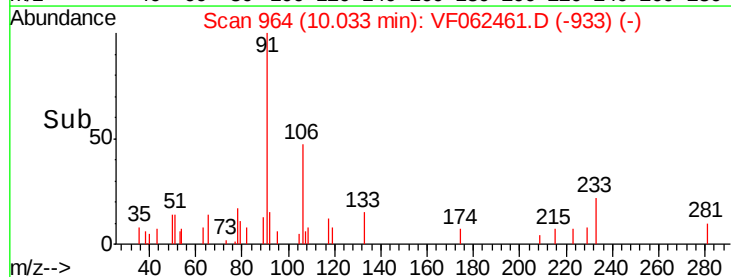
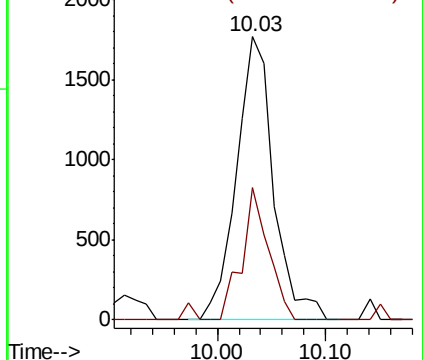


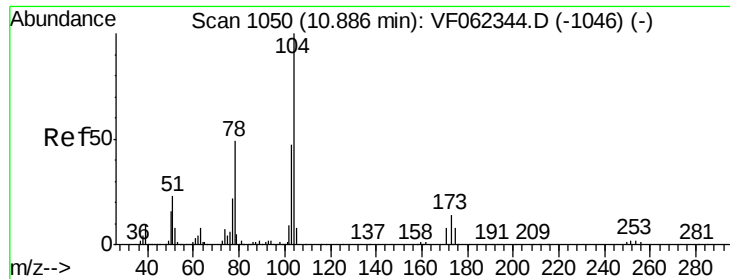
#67
Ethyl Benzene
Concen: 1.530 ug/l
RT: 10.03 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Tgt Ion: 91 Resp: 4202
Ion Ratio Lower Upper
91 100
106 46.9 24.1 36.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 106.00 (105.70 to 106.70): V

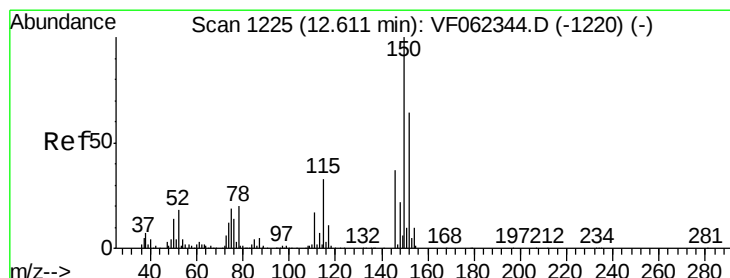
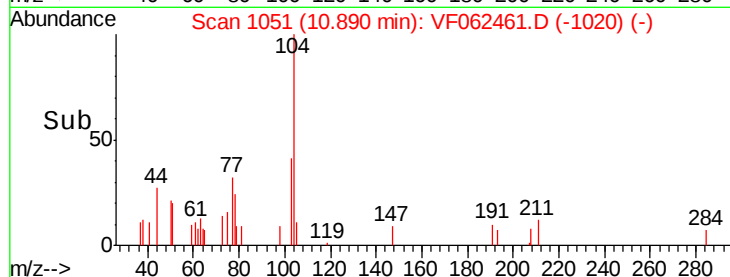
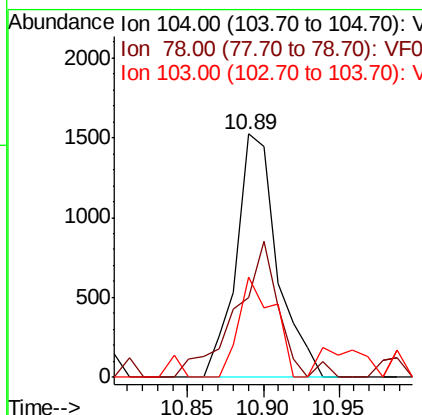
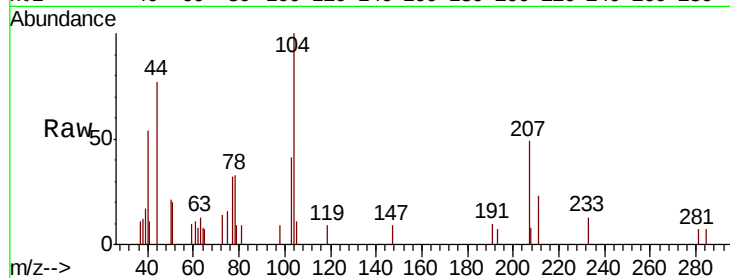




#70
Stvrene
Concen: 1.755 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

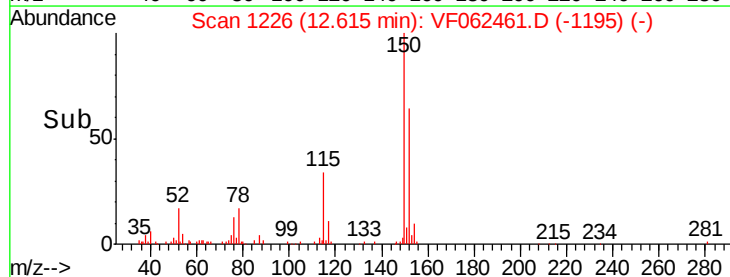
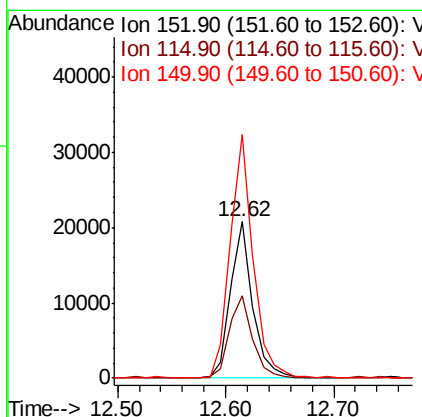
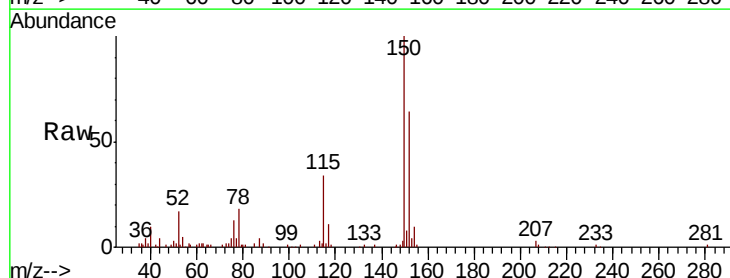
Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1218-01RE

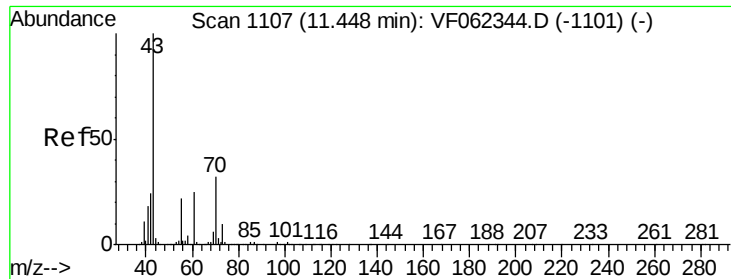
Tot Ion:104 Resp: 2881
Ion Ratio Lower Upper
104 100
78 58.9 39.5 59.3
103 35.5 38.4 57.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062461.D
Acq: 11 May 2019 15:44

Tgt Ion:152 Resp: 29916
Ion Ratio Lower Upper
152 100
115 54.2 26.4 79.2
150 161.1 0.0 335.0





#74

N-amvl acetate

Concen: 2.351 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1218-01RE

Tot Ion: 43 Resp: 895

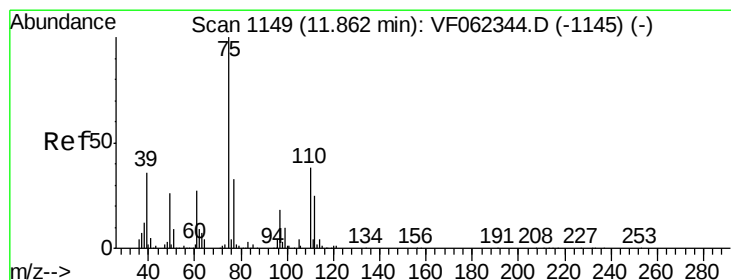
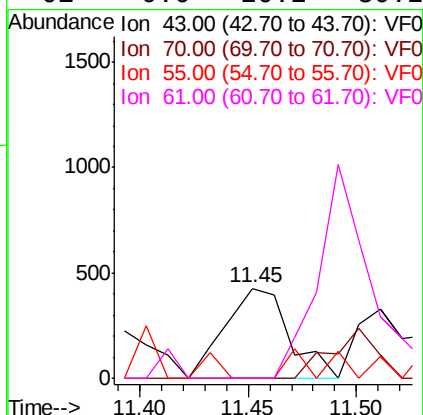
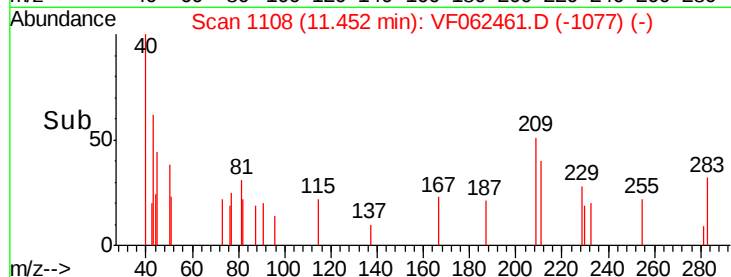
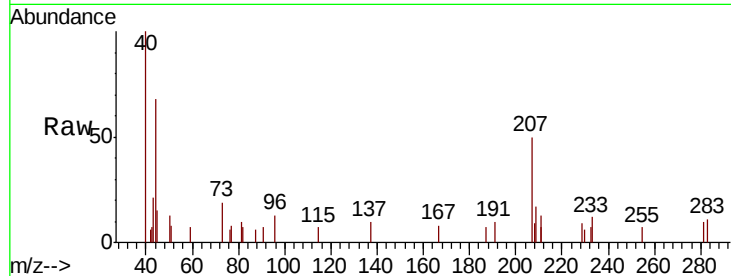
Ion Ratio Lower Upper

43 100

70 0.0 26.5 39.7#

55 9.2 17.8 26.6#

61 0.0 20.2 30.2#



#76

1,2,3-Trichloropropane

Concen: 1.732 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. 0.00 min

Lab File: VF062461.D

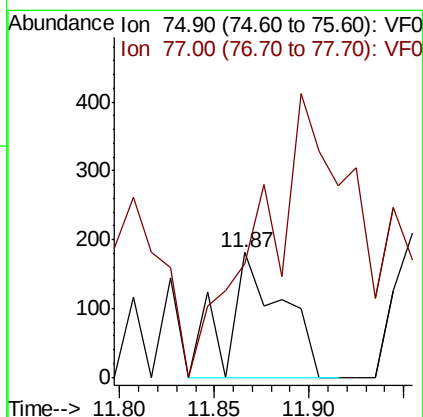
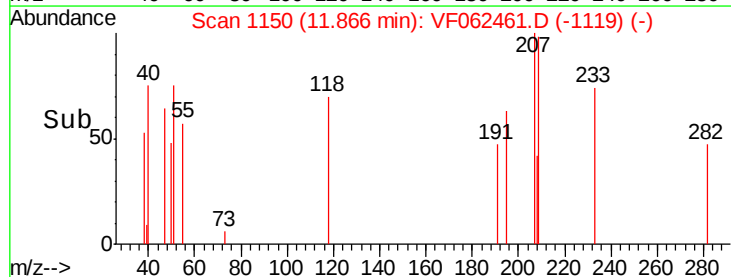
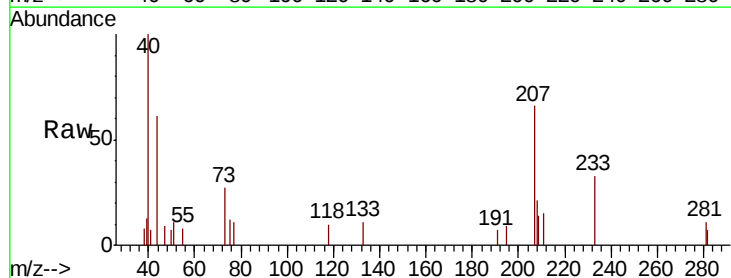
Acq: 11 May 2019 15:44

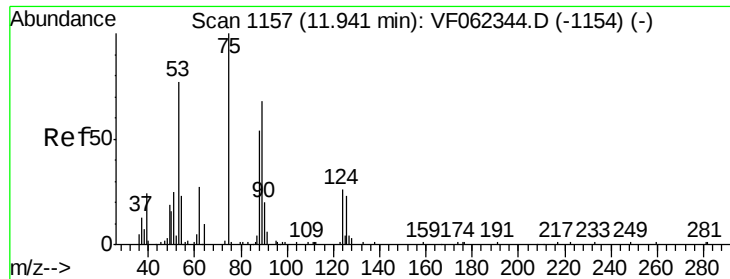
Tgt Ion: 75 Resp: 367

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 2.499 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1218-01RE

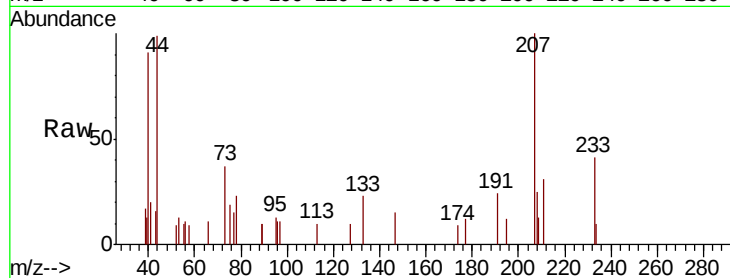
Tot Ion: 75 Resp: 199

Ion Ratio Lower Upper

75 100

53 34.2 71.9 107.9#

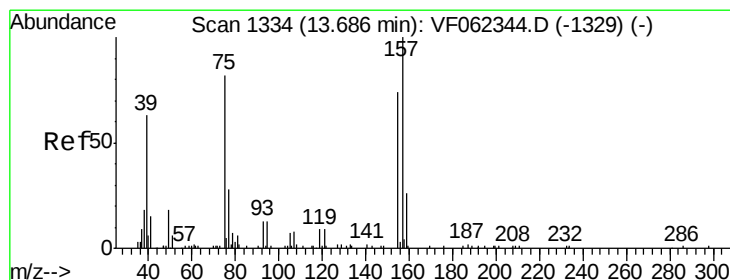
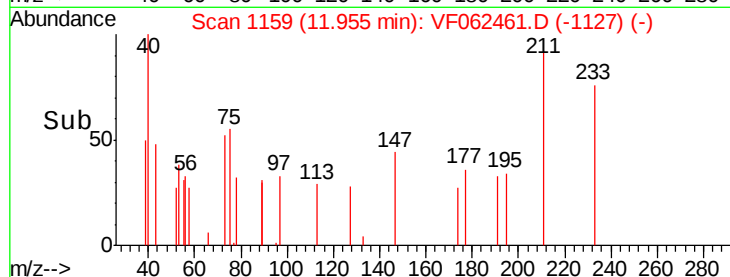
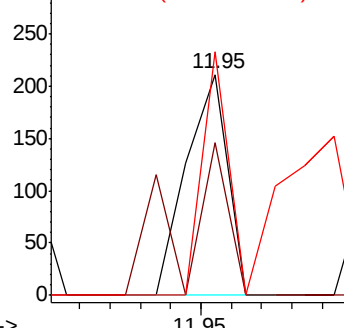
89 69.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.154 ug/l

RT: 13.74 min Scan# 1340

Delta R.T. 0.05 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

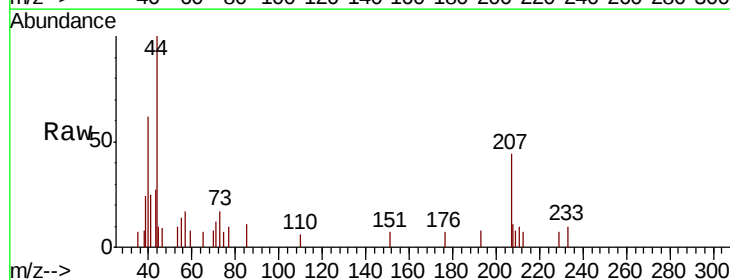
Tgt Ion: 75 Resp: 134

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

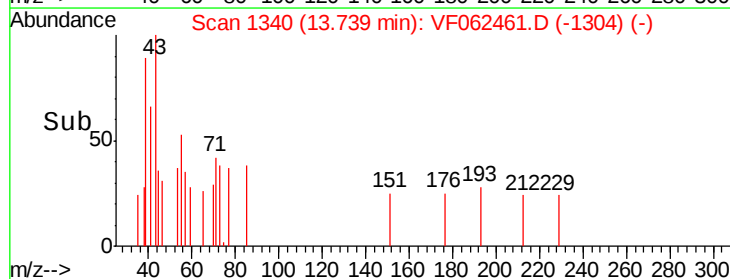
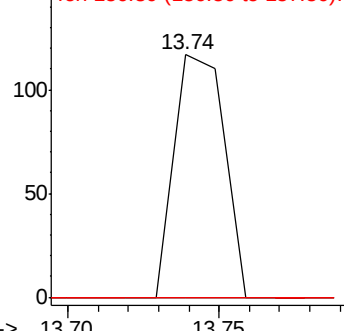
157 0.0 67.3 201.8#

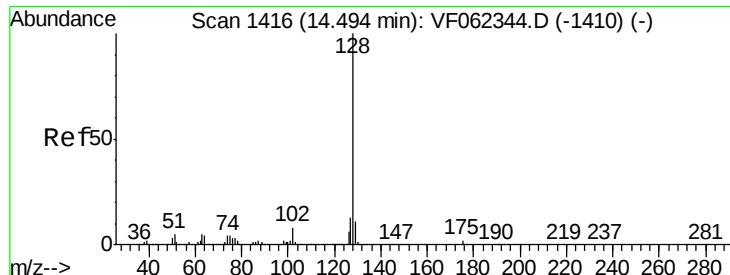


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.088 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VF062461.D

Acq: 11 May 2019 15:44

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1218-01RE

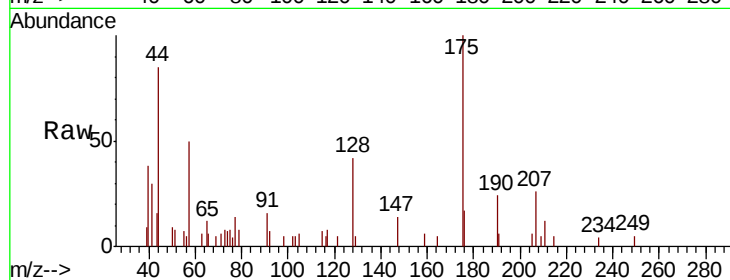
Tot Ion:128 Resp: 1207

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 5.8 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

