

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050719\
 Data File : VF062366.D
 Acq On : 7 May 2019 19:17
 Operator : FY/SY
 Sample : K2704-03
 Misc : 5.15u/5mL/MSVOA F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(34)

Quant Time: May 08 01:15:34 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	5.05	168	293567	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	412717	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	325319	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	164365	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	148391	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	
35) Dibromofluoromethane	4.30	113	173304	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
50) Toluene-d8	7.70	98	358866	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	
62) 4-Bromofluorobenzene	11.48	95	154995	43.16	ug/l	0.00
Spiked Amount			Recovery	=	86.32%	

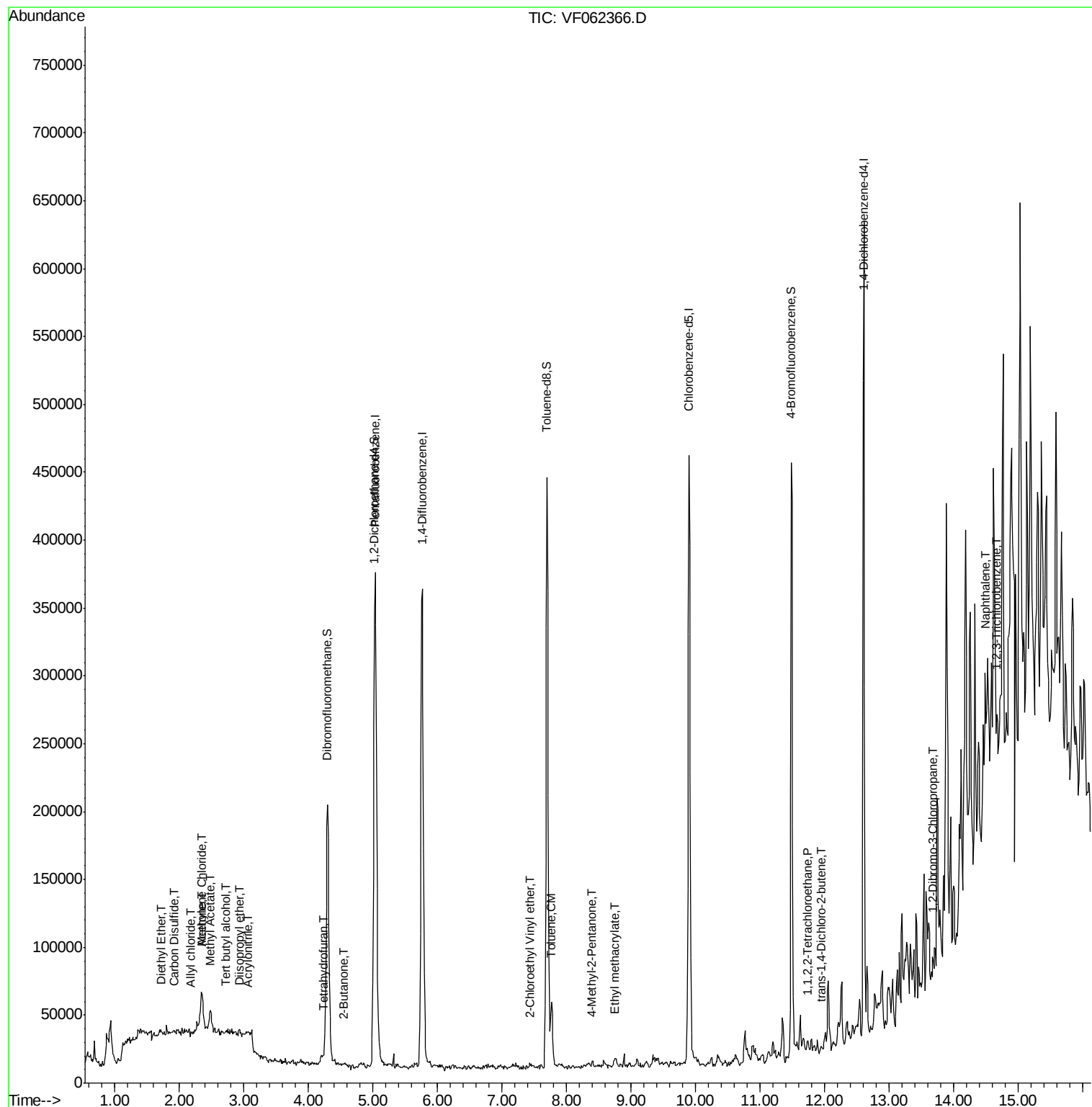
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	177	Below Cal	#	3
8) Diethyl Ether	1.70	74	1460	2.081	ug/l	89
11) Tert butyl alcohol	2.71	59	488	3.112	ug/l #	1
13) Acrolein	2.10	56	752	Below Cal	#	76
14) Allyl chloride	2.19	41	2169	1.091	ug/l #	23
15) Acrylonitrile	3.07	53	355	1.195	ug/l #	1
16) Acetone	2.35	43	23532	41.930	ug/l	95
17) Carbon Disulfide	1.91	76	5944	1.211	ug/l	98
18) Methyl Acetate	2.47	43	18427	15.866	ug/l #	76
20) Methylene Chloride	2.34	84	16700	8.225	ug/l #	90
22) Diisopropyl ether	2.95	45	6833	1.100	ug/l #	38
25) 2-Butanone	4.54	43	3148	4.465	ug/l #	80
29) Tetrahydrofuran	4.23	42	410	1.265	ug/l #	20
37) Ethyl Acetate	4.28	43	2106	Below Cal	#	68
38) Carbon Tetrachloride	4.23	117	171	Below Cal	#	70
49) 1,4-Dioxane	6.86	88	65	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.40	43	4126	3.377	ug/l #	63
52) Toluene	7.77	92	21218	4.405	ug/l	96
56) Ethyl methacrylate	8.76	69	3531	2.188	ug/l #	88
58) 2-Chloroethyl Vinyl ether	7.43	63	716	1.476	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	11.74	83	2861	1.875	ug/l #	50
81) trans-1,4-Dichloro-2-buten	11.95	75	592	1.353	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	13.68	75	723	2.115	ug/l #	10
95) Naphthalene	14.49	128	13479	2.211	ug/l #	75
96) 1,2,3-Trichlorobenzene	14.67	180	5309	1.351	ug/l #	1

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

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

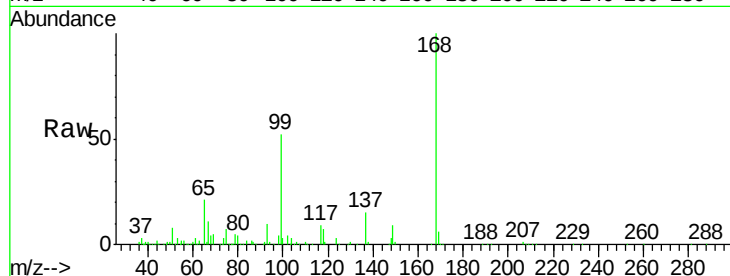
SB-2(34)

Tot Ion:168 Resp: 293567

Ion Ratio Lower Upper

168 100

99 52.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.05

100000

80000

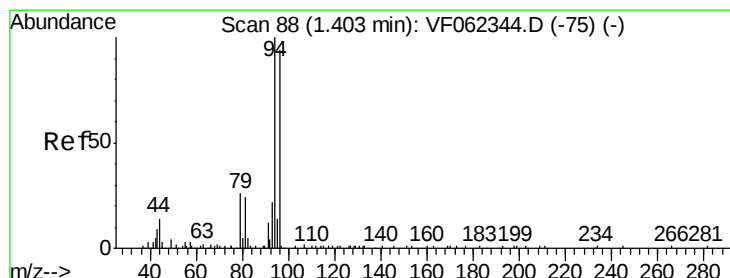
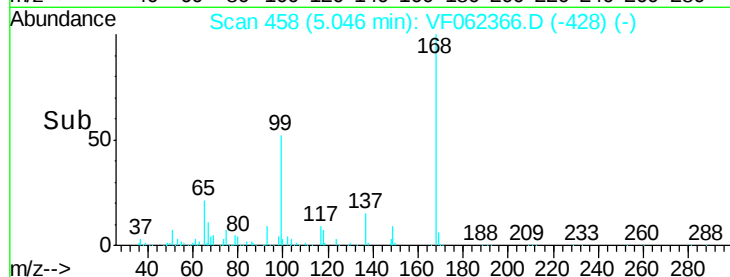
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062366.D

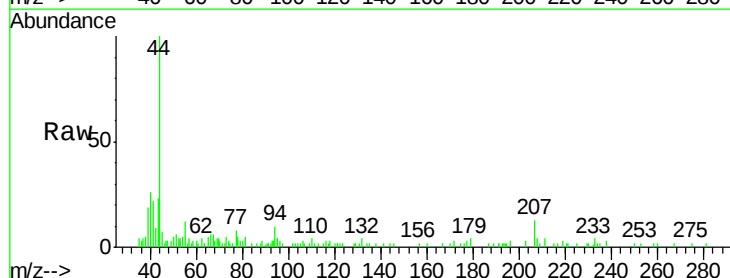
Acq: 7 May 2019 19:17

Tgt Ion: 94 Resp: 177

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.40

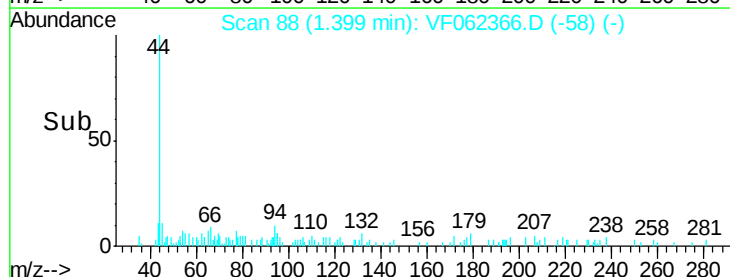
600

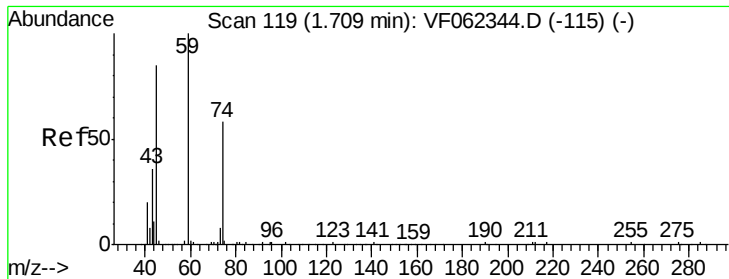
400

200

0

Time-->





#8

Diethyl Ether

Concen: 2.081 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

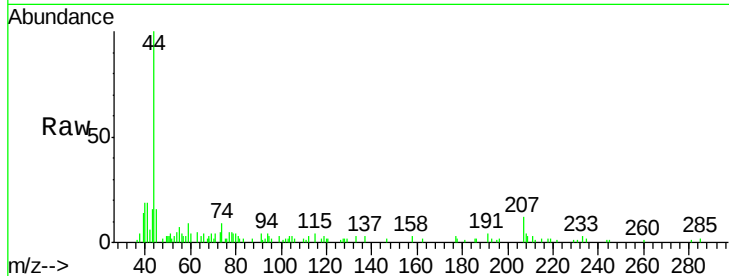
SB-2(34)

Tot Ion: 74 Resp: 1460

Ion Ratio Lower Upper

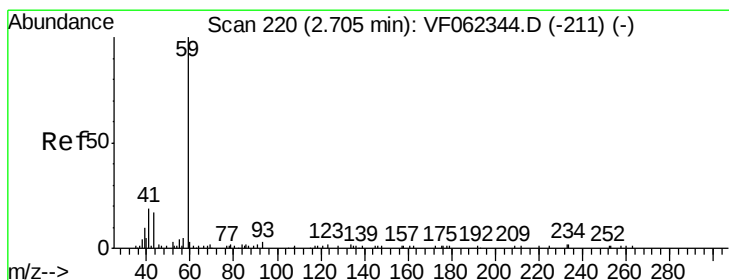
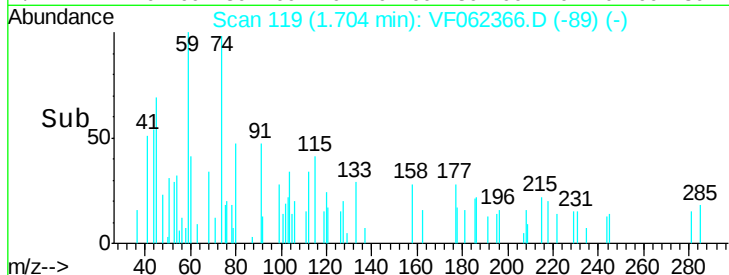
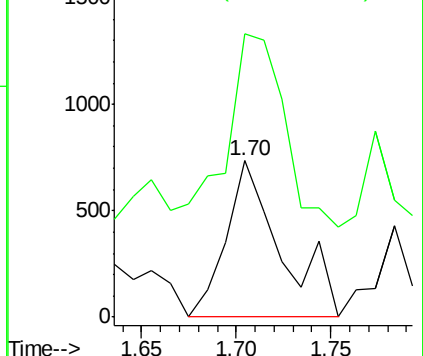
74 100

45 161.9 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: 3.112 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF062366.D

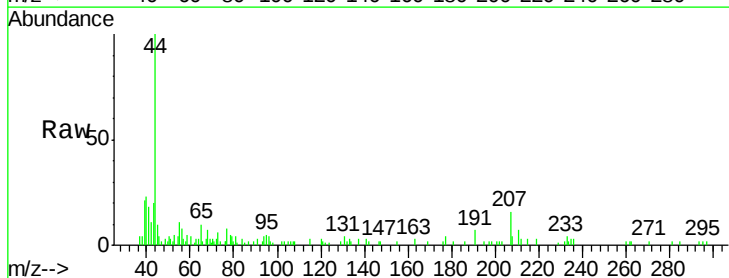
Acq: 7 May 2019 19:17

Tgt Ion: 59 Resp: 488

Ion Ratio Lower Upper

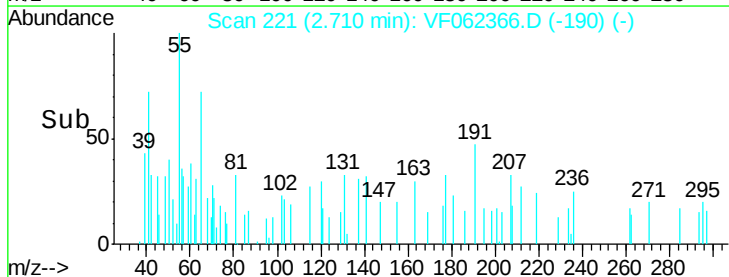
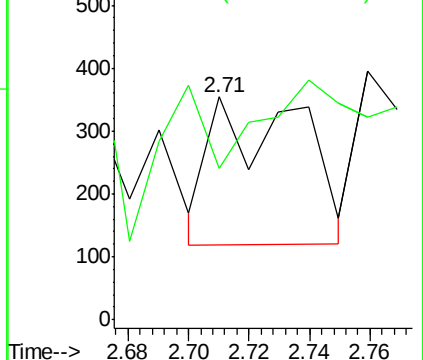
59 100

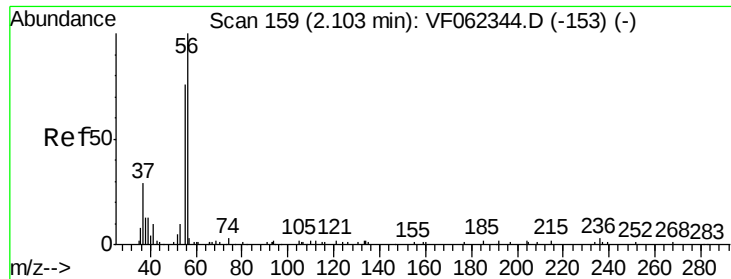
57 63.7 9.3 13.9#



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: 2.10 min Scan# 159

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

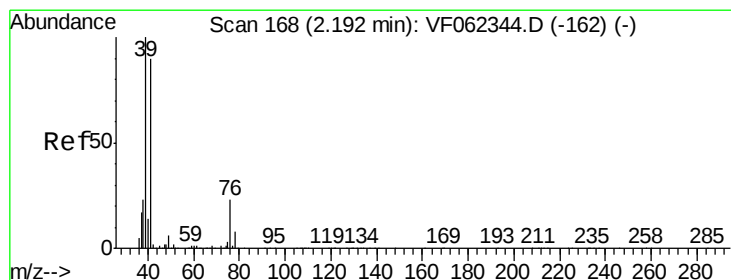
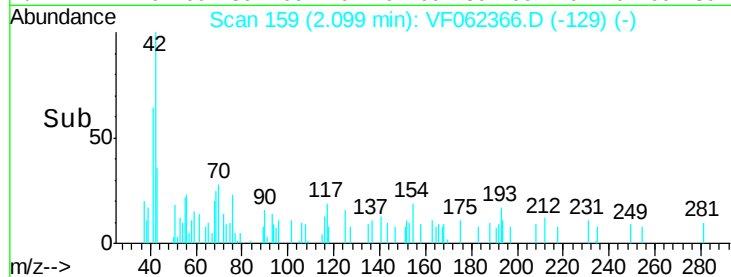
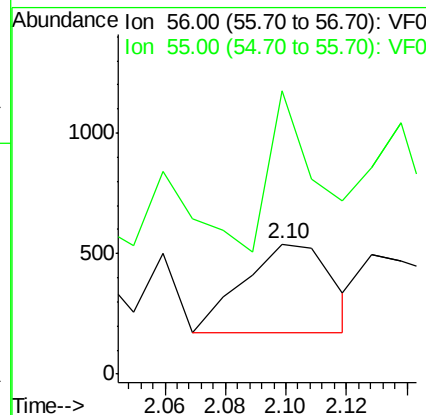
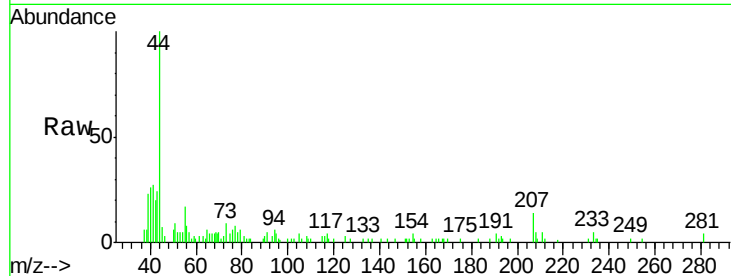
SB-2(34)

Tot Ion: 56 Resp: 752

Ion Ratio Lower Upper

56 100

55 92.8 58.4 87.6#



#14

Allyl chloride

Concen: 1.091 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

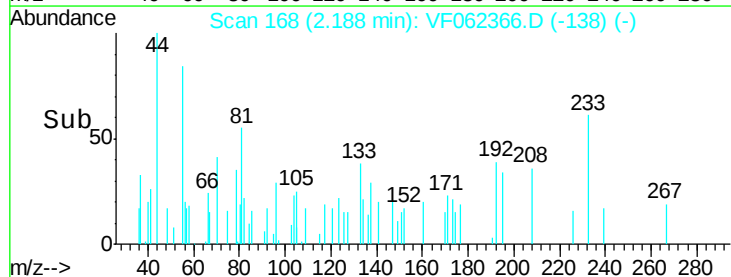
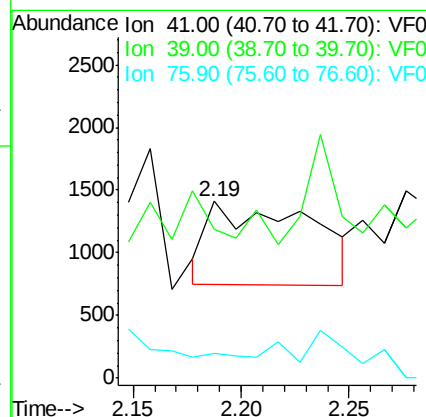
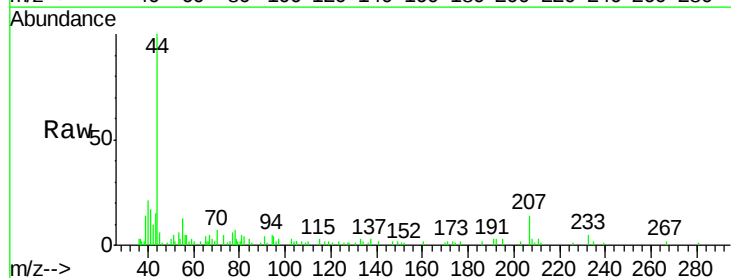
Tgt Ion: 41 Resp: 2169

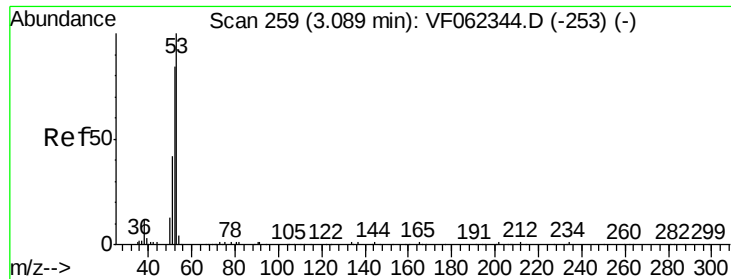
Ion Ratio Lower Upper

41 100

39 23.9 90.8 136.2#

76 0.0 22.2 33.4#





#15

Acrylonitrile

Concen: 1.195 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

SB-2(34)

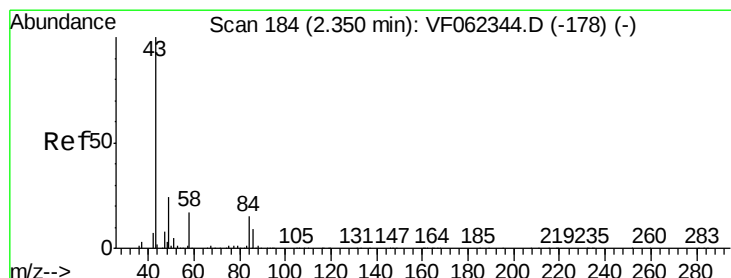
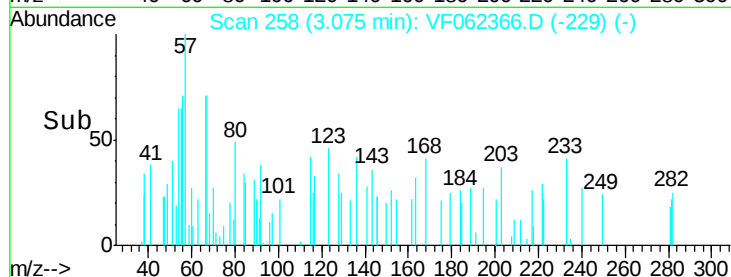
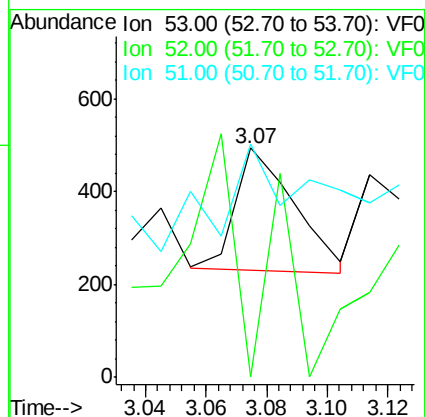
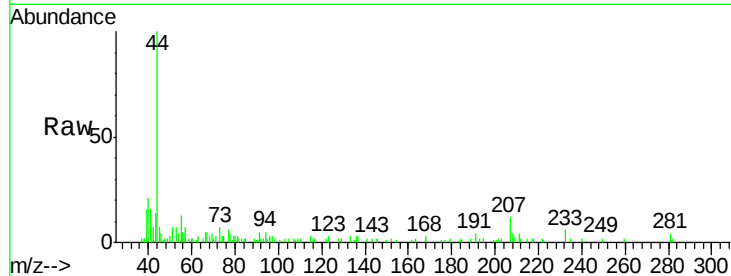
Tot Ion: 53 Resp: 355

Ion Ratio Lower Upper

53 100

52 241.1 77.2 115.8#

51 201.1 40.6 61.0#



#16

Acetone

Concen: 41.930 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062366.D

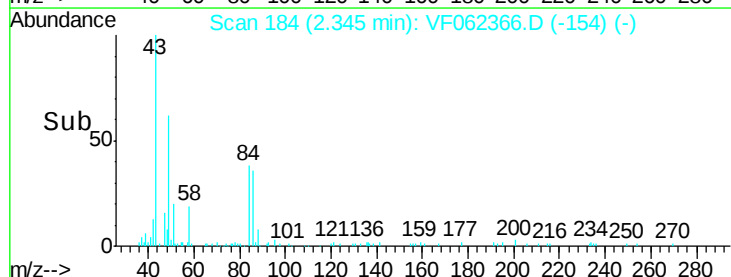
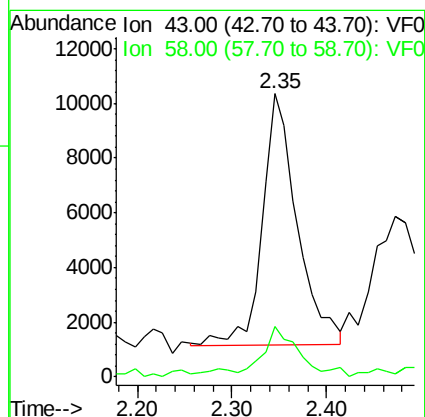
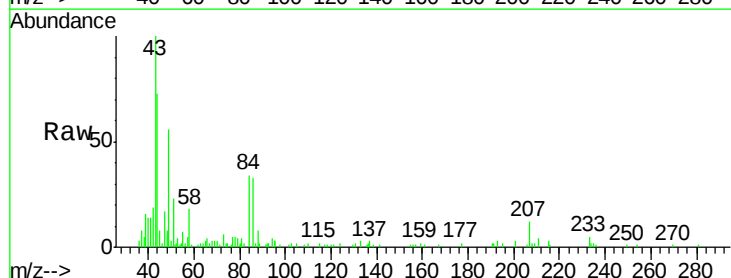
Acq: 7 May 2019 19:17

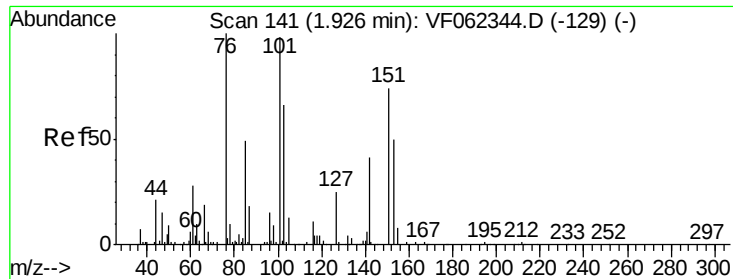
Tgt Ion: 43 Resp: 23532

Ion Ratio Lower Upper

43 100

58 18.5 13.1 19.7

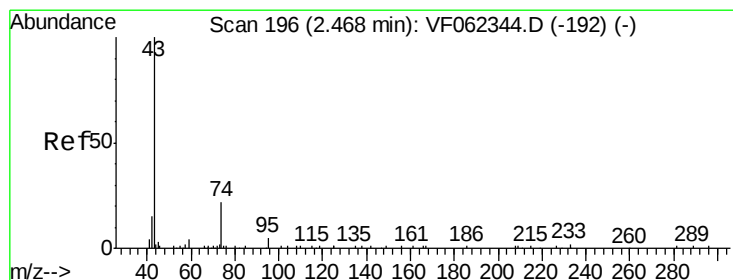
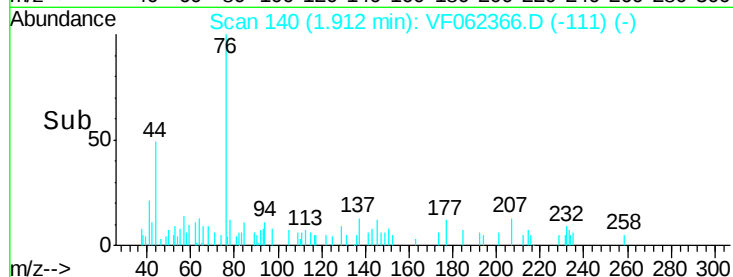
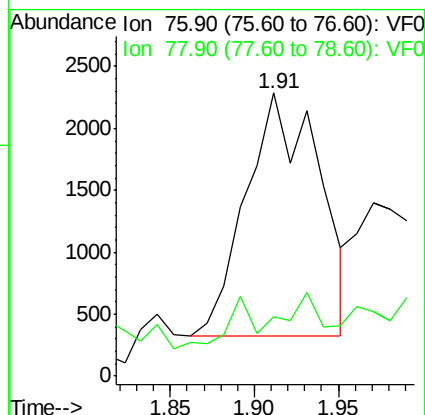
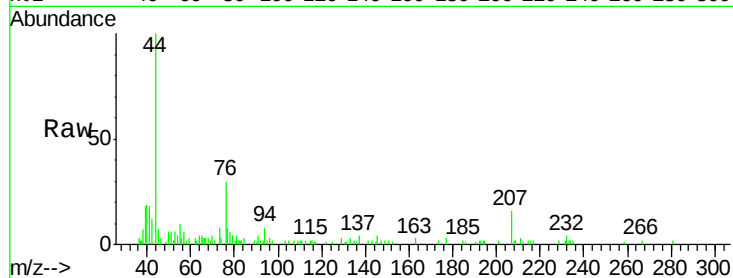




#17
Carbon Disulfide
Concen: 1.211 ug/l
RT: 1.91 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062366.D
Acq: 7 May 2019 19:17

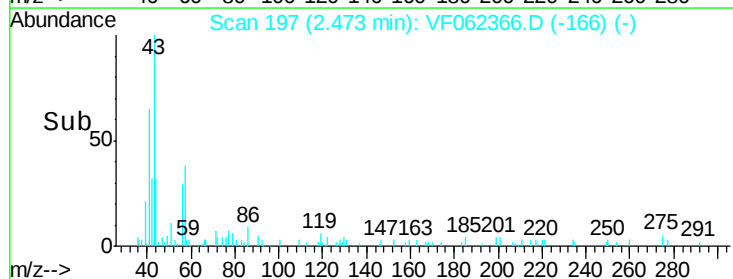
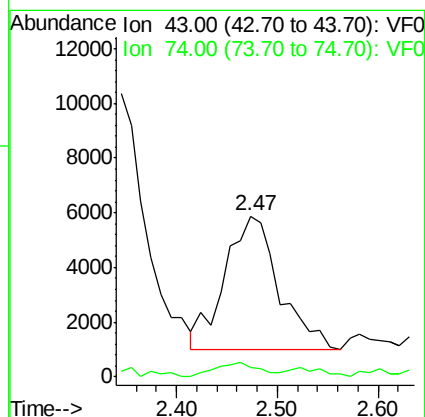
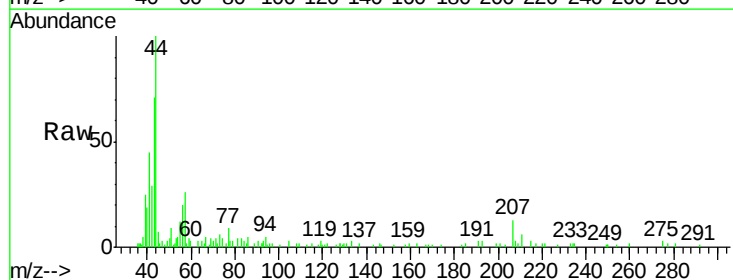
Instrument :
MSVOA_F
ClientSampled :
SB-2(34)

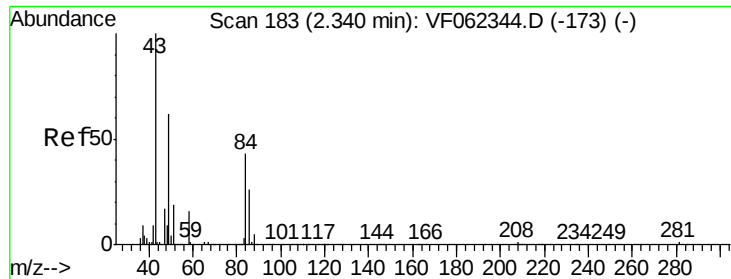
Tot Ion: 76 Resp: 5944
Ion Ratio Lower Upper
76 100
78 10.6 9.0 13.4



#18
Methyl Acetate
Concen: 15.866 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF062366.D
Acq: 7 May 2019 19:17

Tgt Ion: 43 Resp: 18427
Ion Ratio Lower Upper
43 100
74 8.1 15.0 22.4#





#20

Methylene Chloride

Concen: 8.225 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

SB-2(34)

Tot Ion: 84 Resp: 16700

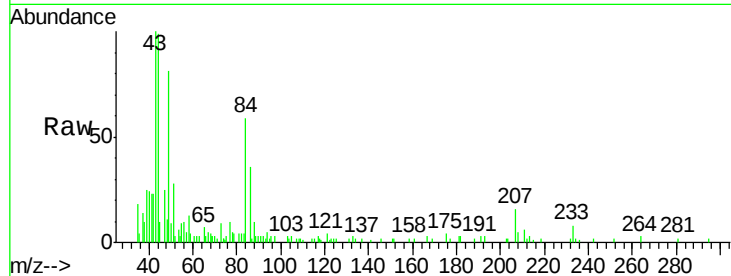
Ion Ratio Lower Upper

84 100

49 135.0 117.5 176.3

51 30.4 37.0 55.4#

86 59.6 49.3 73.9

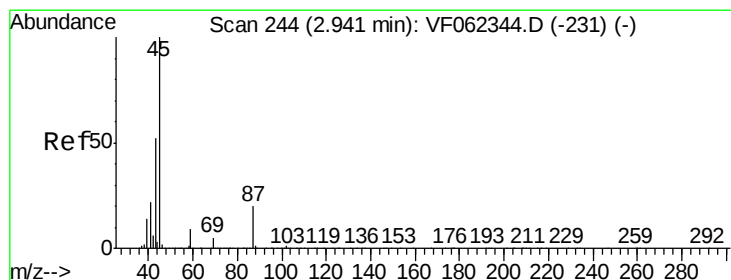
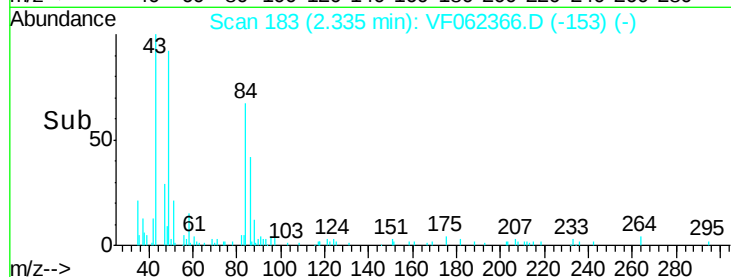
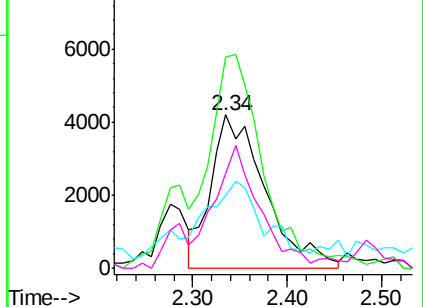


Abundance Ion 83.90 (83.60 to 84.60): VF0

Ion 48.90 (48.60 to 49.60): VF0

Ion 50.90 (50.60 to 51.60): VF0

Ion 85.90 (85.60 to 86.60): VF0



#22

Diisopropyl ether

Concen: 1.100 ug/l

RT: 2.95 min Scan# 245

Delta R.T. 0.01 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Tgt Ion: 45 Resp: 6833

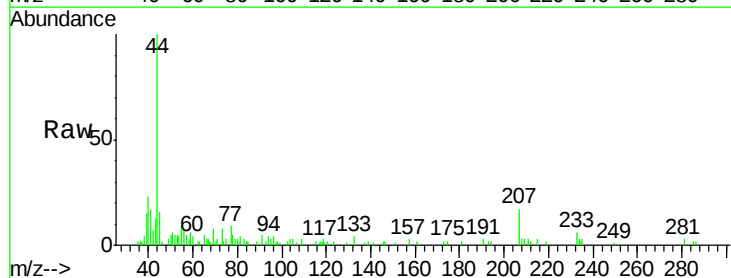
Ion Ratio Lower Upper

45 100

43 0.0 41.4 62.0#

87 0.0 15.8 23.6#

59 23.2 7.2 10.8#

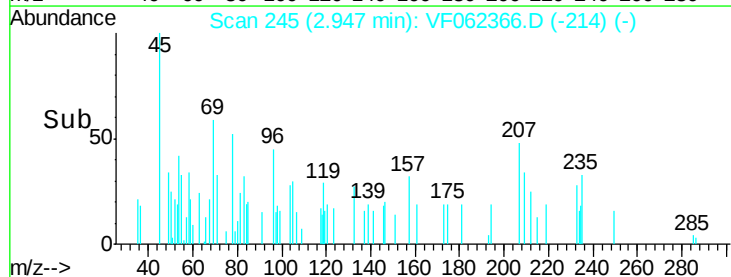
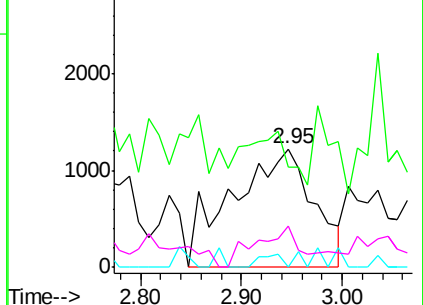


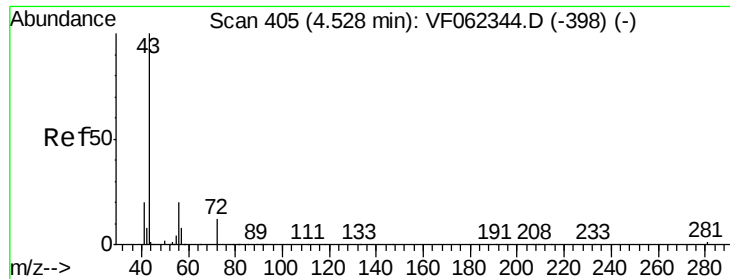
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#25

2-Butanone

Concen: 4.465 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampled :

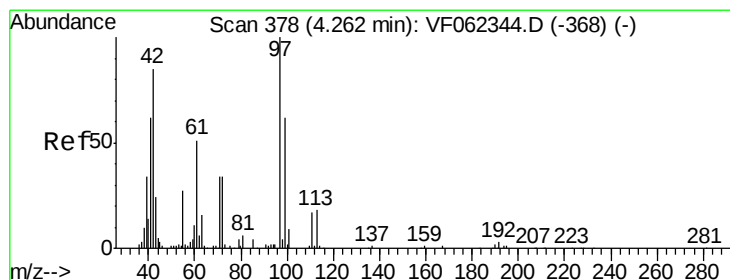
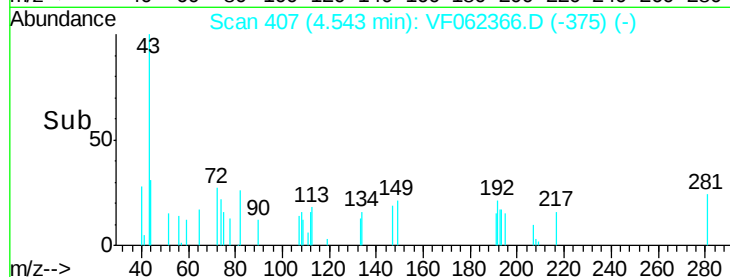
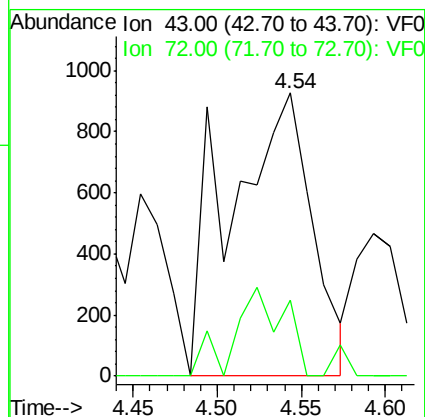
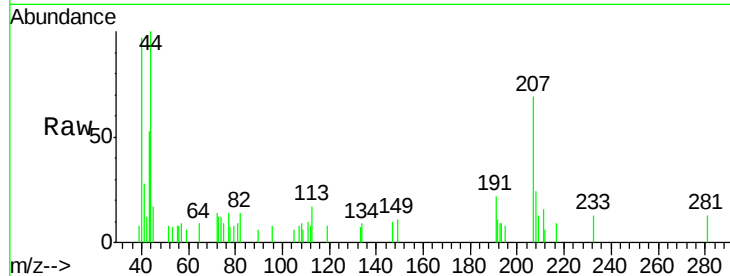
SB-2(34)

Tot Ion: 43 Resp: 3148

Ion Ratio Lower Upper

43 100

72 26.6 14.2 21.4#



#29

Tetrahydrofuran

Concen: 1.265 ug/l

RT: 4.23 min Scan# 375

Delta R.T. -0.03 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

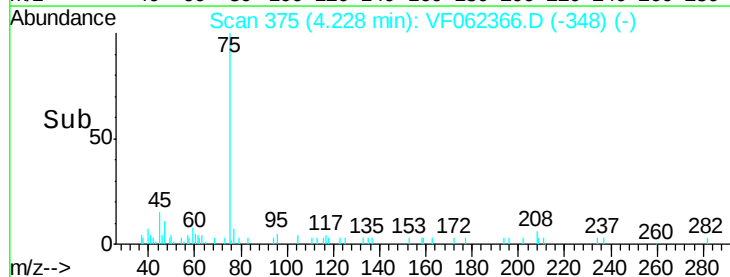
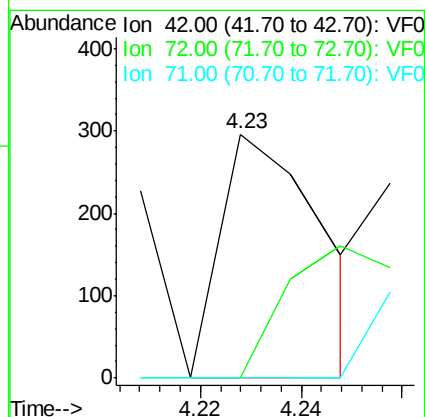
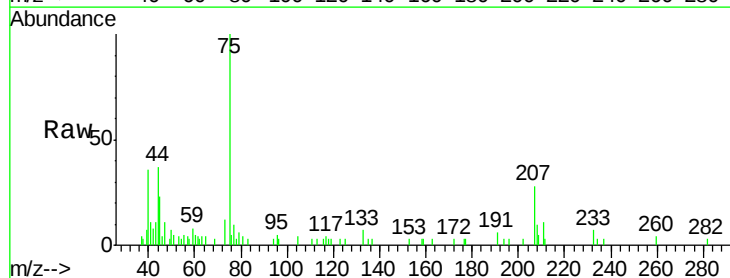
Tgt Ion: 42 Resp: 410

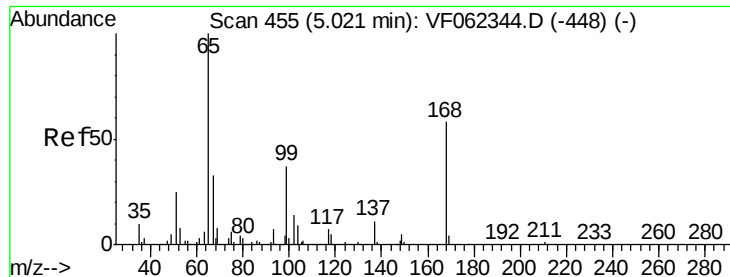
Ion Ratio Lower Upper

42 100

72 98.3 31.4 47.0#

71 0.0 31.7 47.5#

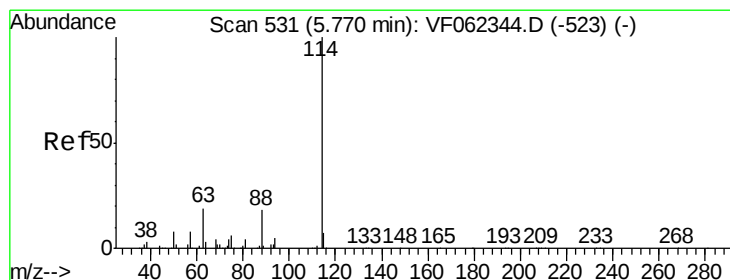
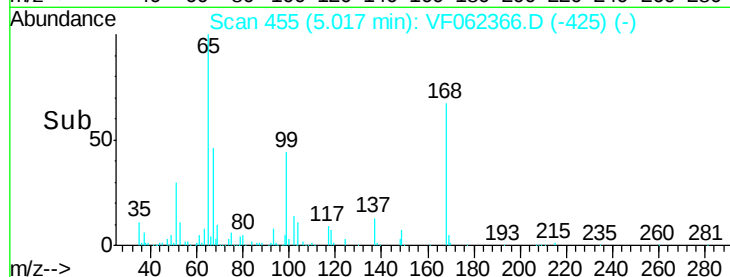
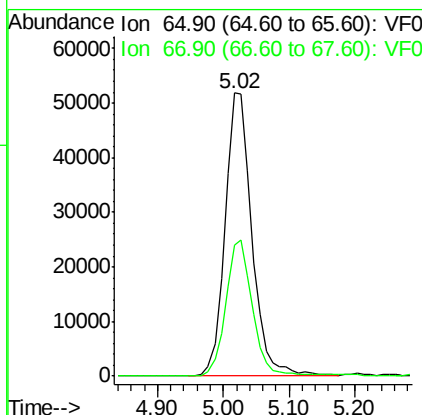
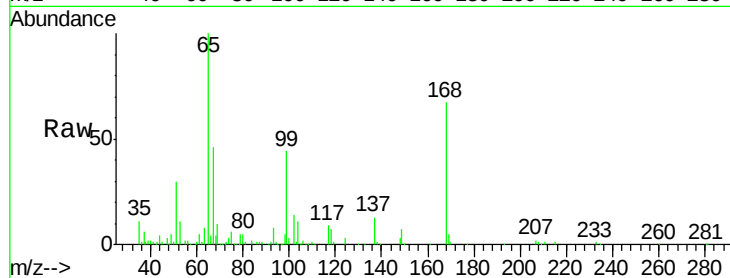




#33
 1,2-Dichloroethane-d4
 Concen: 53.487 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.00 min
 Lab File: VF062366.D
 Acq: 7 May 2019 19:17

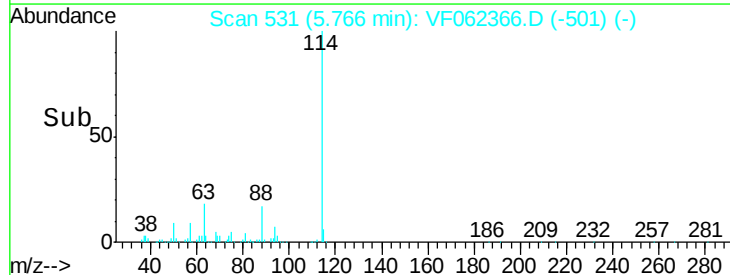
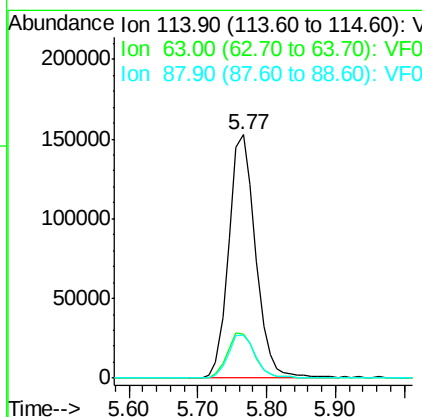
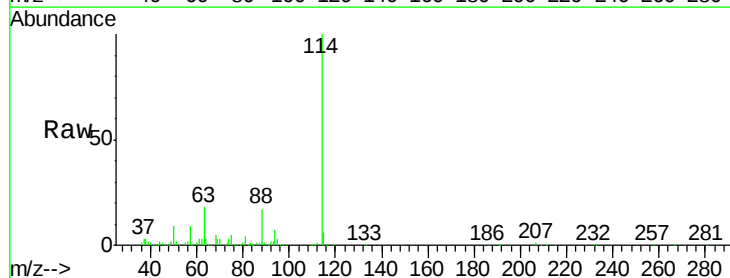
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(34)

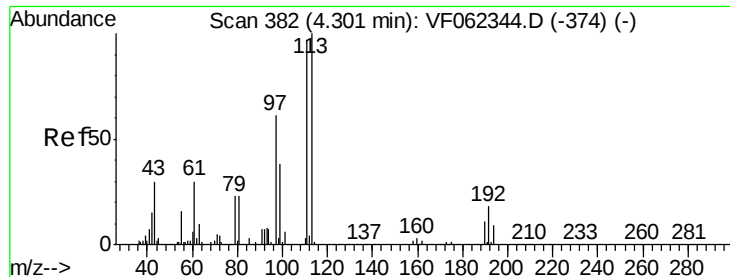
Tot Ion: 65 Resp: 148391
 Ion Ratio Lower Upper
 65 100
 67 47.4 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VF062366.D
 Acq: 7 May 2019 19:17

Tgt Ion: 114 Resp: 412717
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 37.4
 88 17.3 0.0 36.4

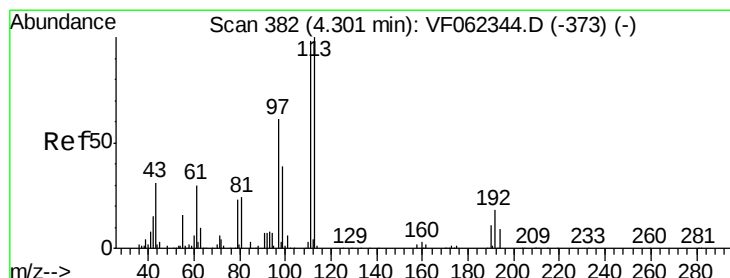
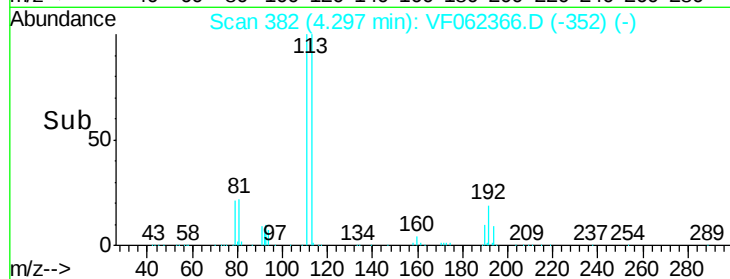
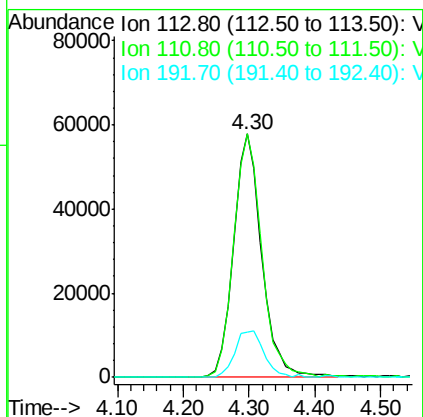
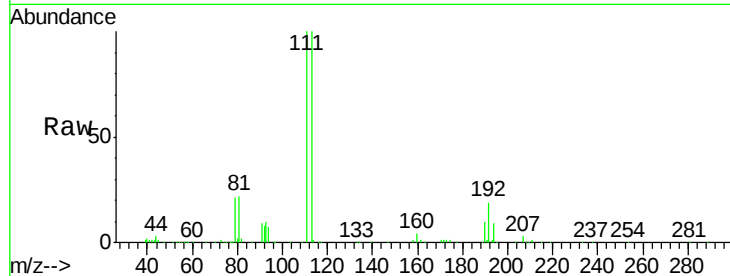




#35
 Dibromofluoromethane
 Concen: 52.707 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VF062366.D
 Acq: 7 May 2019 19:17

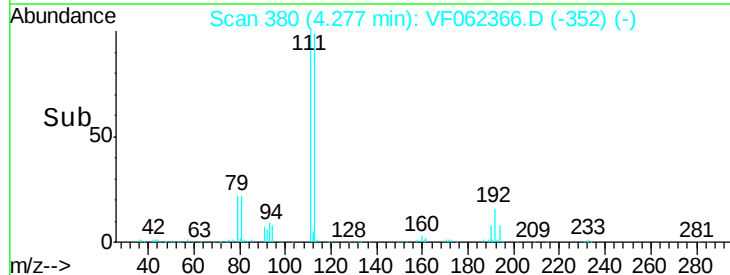
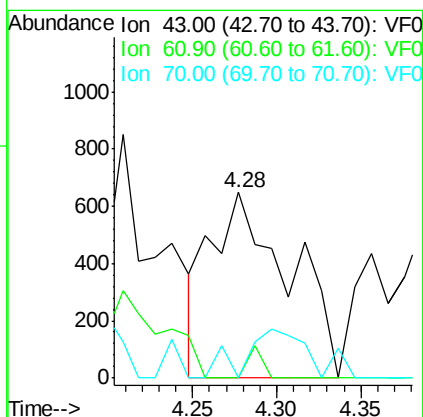
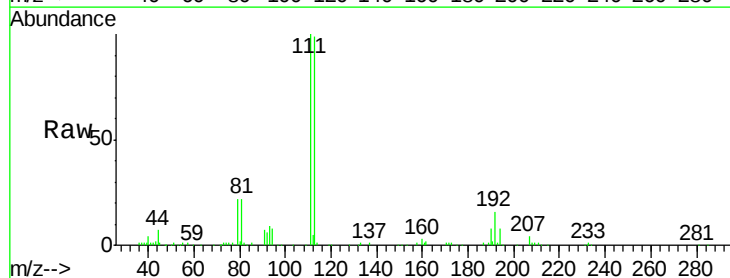
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(34)

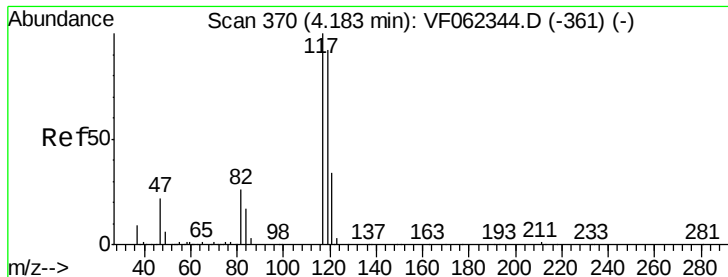
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.0	79.4	119.0
192	20.4	16.0	24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.28 min Scan# 380
 Delta R.T. -0.02 min
 Lab File: VF062366.D
 Acq: 7 May 2019 19:17

Tgt Ion	Ratio	Lower	Upper
43	100		
61	3.2	0.0	0.0#
70	22.0	8.2	12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.23 min Scan# 375

Delta R.T. 0.04 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampled :

SB-2(34)

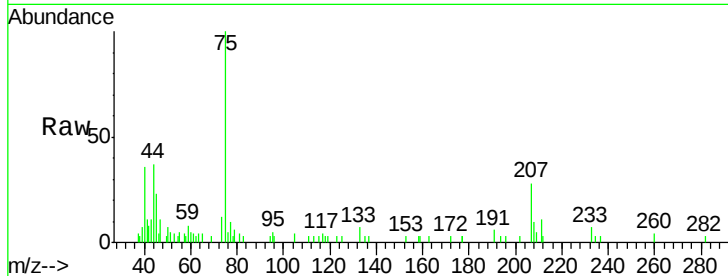
Tot Ion:117 Resp: 171

Ion Ratio Lower Upper

117 100

119 73.1 73.4 110.2#

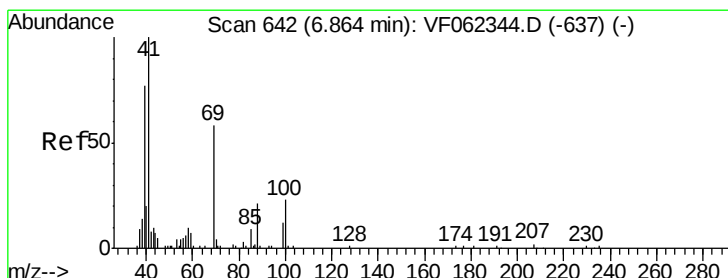
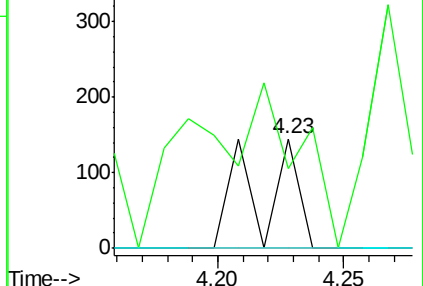
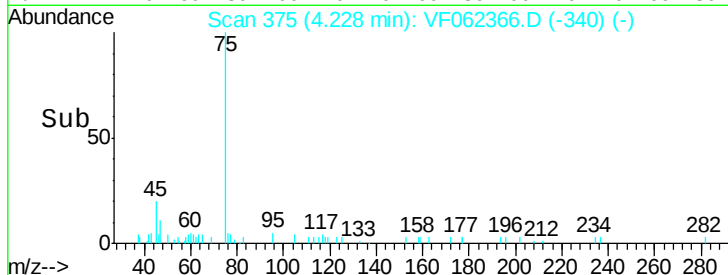
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.86 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

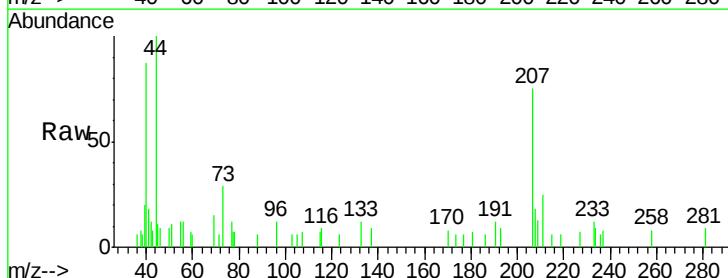
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 1095.4 55.6 83.4#

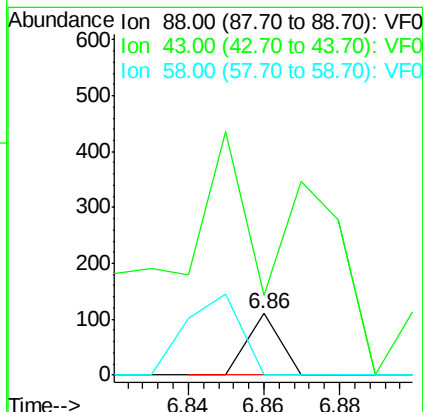
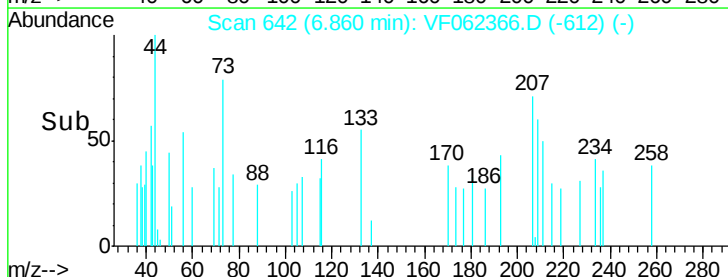
58 226.2 52.8 79.2#

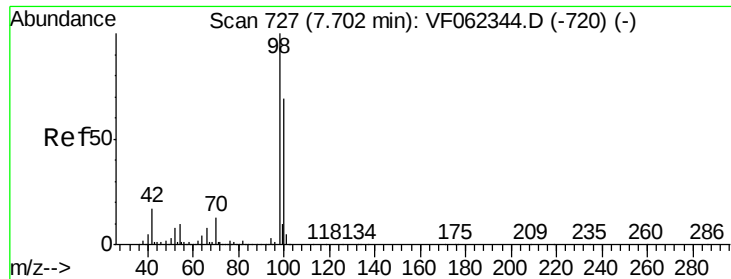


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 45.088 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

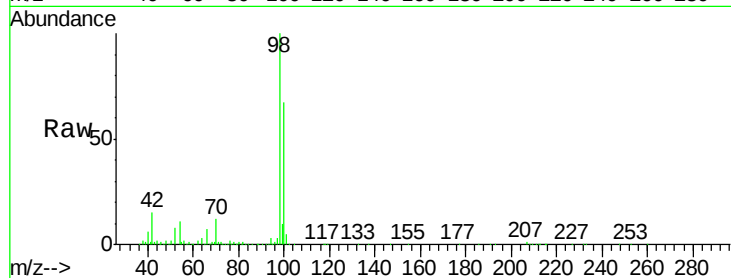
SB-2(34)

Tot Ion: 98 Resp: 358866

Ion Ratio Lower Upper

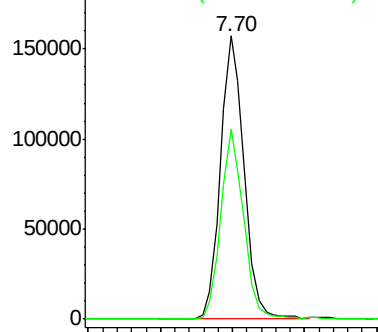
98 100

100 64.7 53.3 79.9

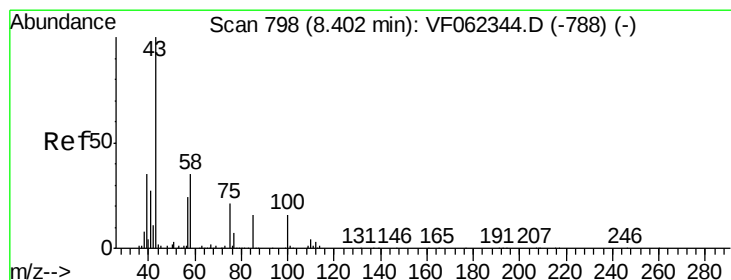
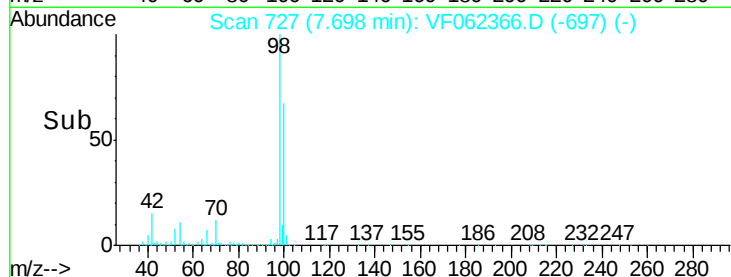


Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.377 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF062366.D

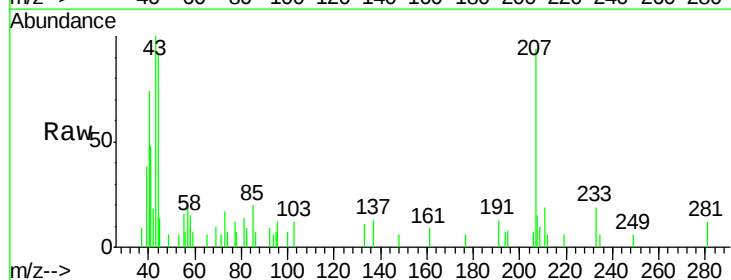
Acq: 7 May 2019 19:17

Tgt Ion: 43 Resp: 4126

Ion Ratio Lower Upper

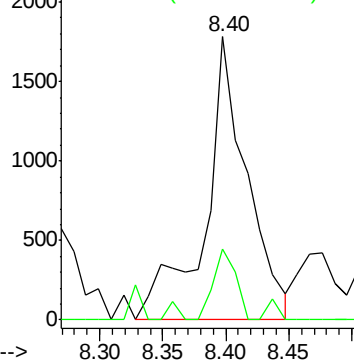
43 100

58 13.4 27.8 41.6#

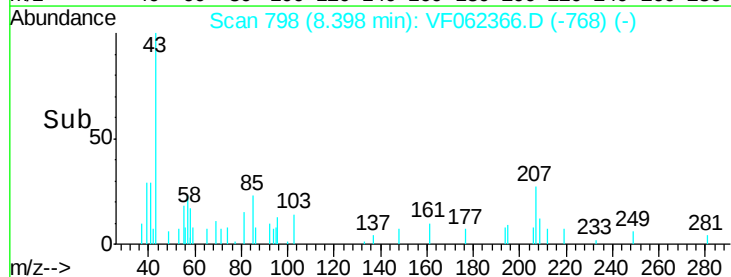


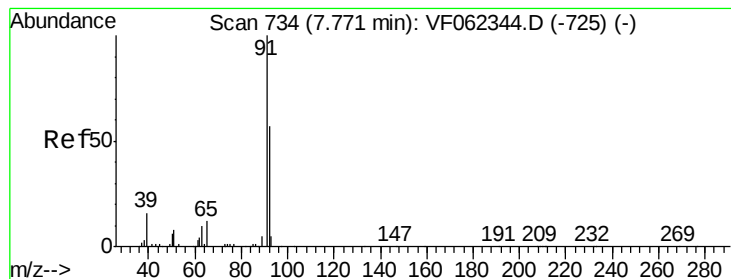
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#52

Toluene

Concen: 4.405 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

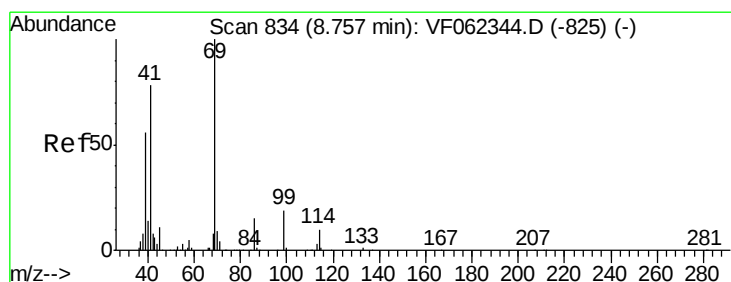
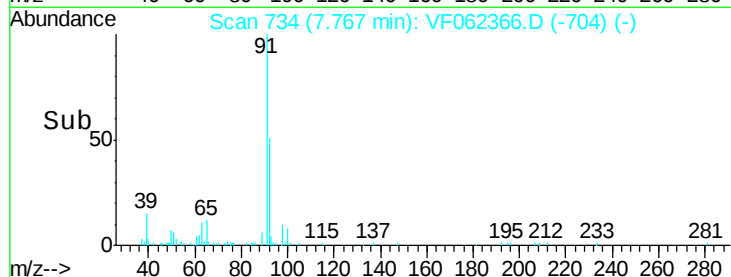
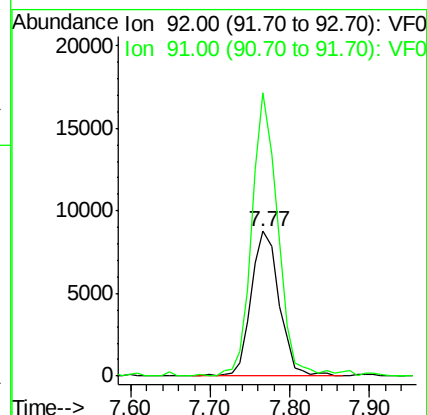
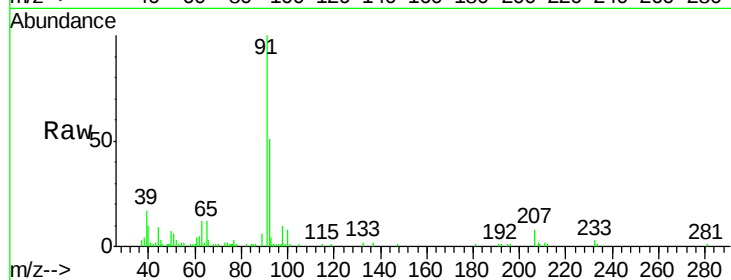
SB-2(34)

Tot Ion: 92 Resp: 21218

Ion Ratio Lower Upper

92 100

91 179.5 138.7 208.1



#56

Ethyl methacrylate

Concen: 2.188 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

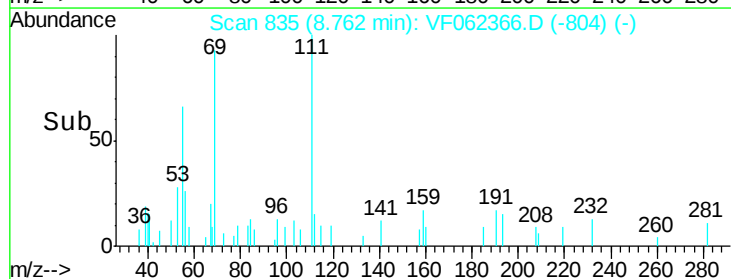
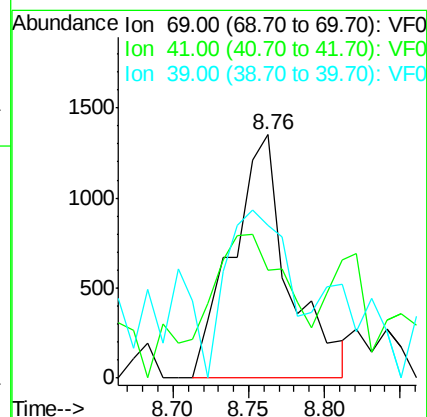
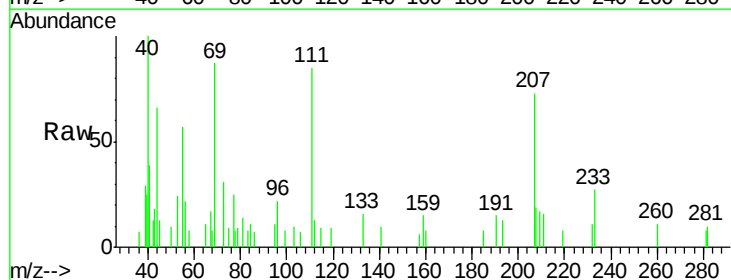
Tgt Ion: 69 Resp: 3531

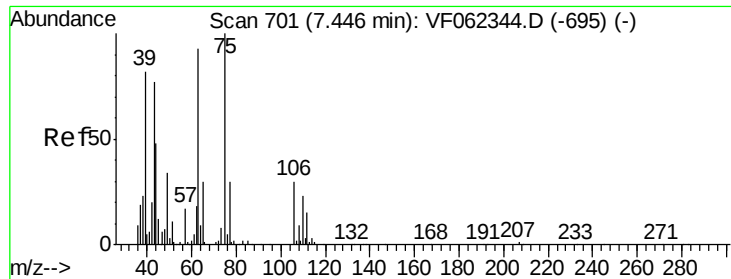
Ion Ratio Lower Upper

69 100

41 88.3 66.3 99.5

39 78.9 50.1 75.1#

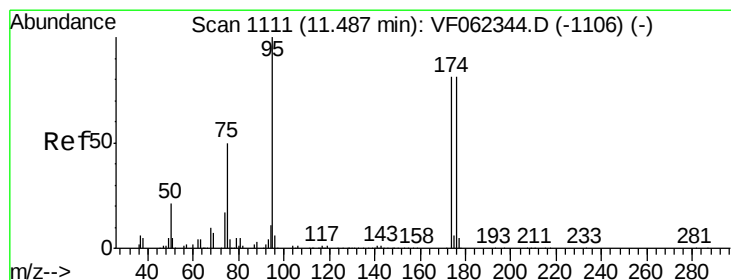
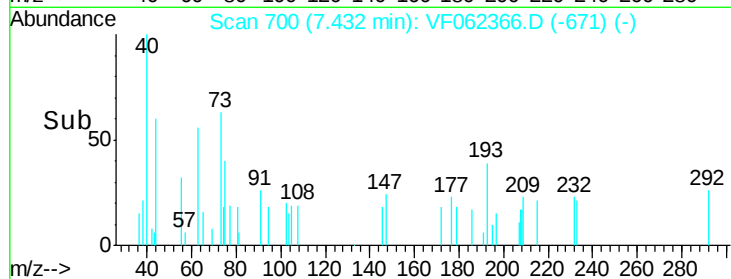
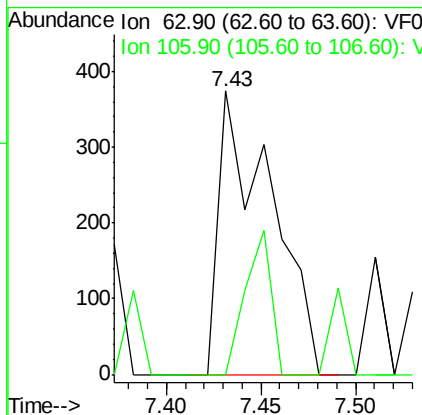
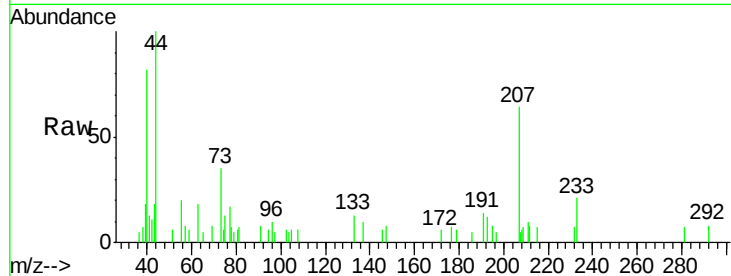




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.476 ug/l
 RT: 7.43 min Scan# 700
 Delta R.T. -0.01 min
 Lab File: VF062366.D
 Acq: 7 May 2019 19:17

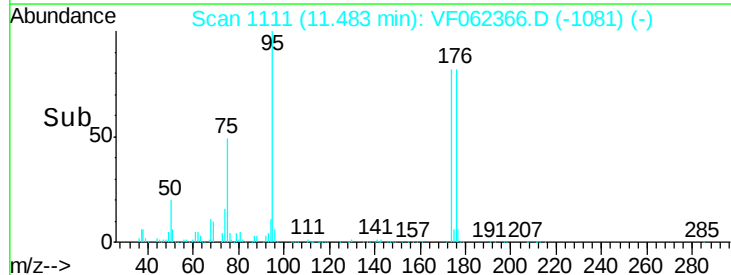
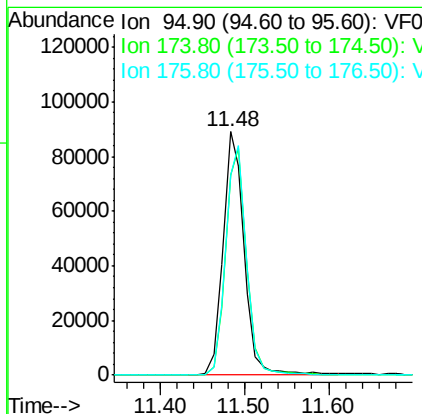
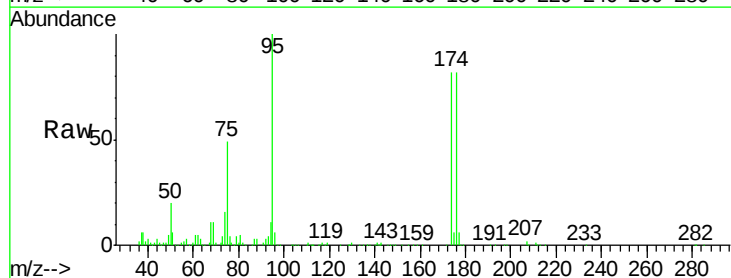
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(34)

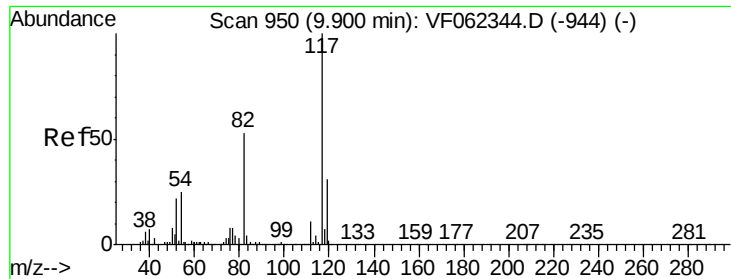
Tot Ion: 63 Resp: 716
 Ion Ratio Lower Upper
 63 100
 106 24.7 25.8 38.8#



#62
 4-Bromofluorobenzene
 Concen: 43.163 ug/l
 RT: 11.48 min Scan# 1111
 Delta R.T. -0.00 min
 Lab File: VF062366.D
 Acq: 7 May 2019 19:17

Tgt Ion: 95 Resp: 154995
 Ion Ratio Lower Upper
 95 100
 174 91.8 0.0 191.8
 176 92.2 0.0 193.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

SB-2(34)

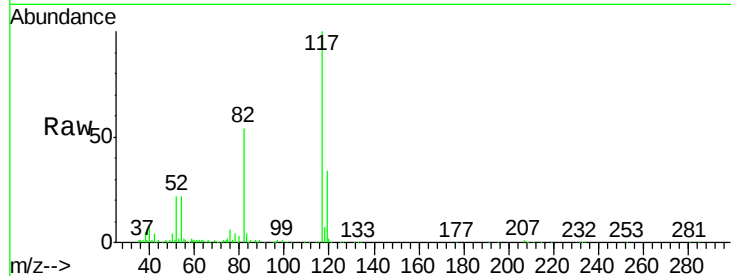
Tot Ion:117 Resp: 325319

Ion Ratio Lower Upper

117 100

82 53.4 42.2 63.2

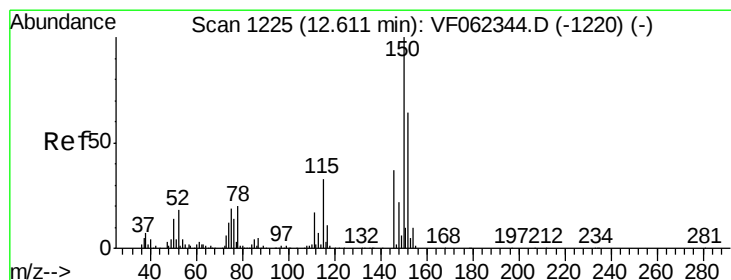
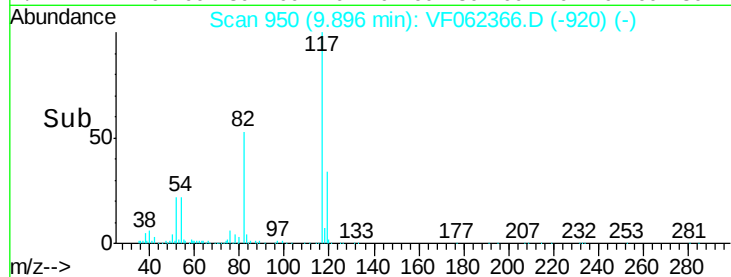
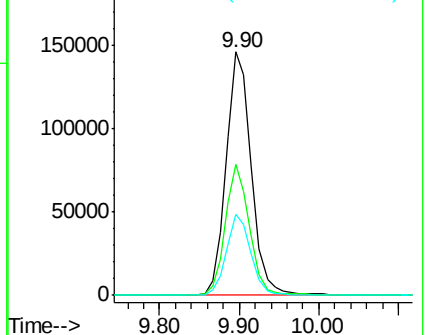
119 33.5 25.0 37.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

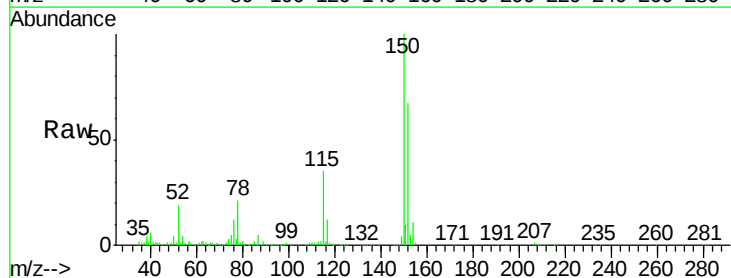
Tgt Ion:152 Resp: 164365

Ion Ratio Lower Upper

152 100

115 54.2 26.4 79.2

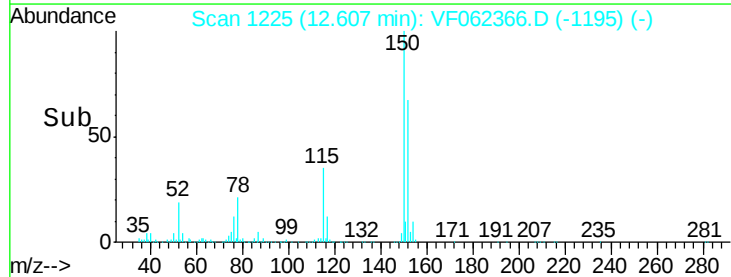
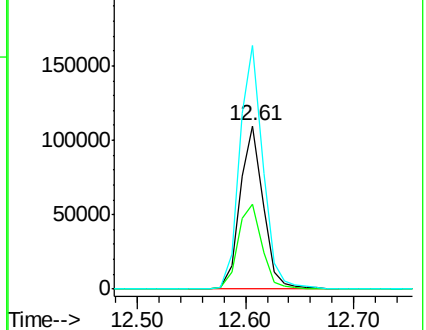
150 148.4 0.0 335.0

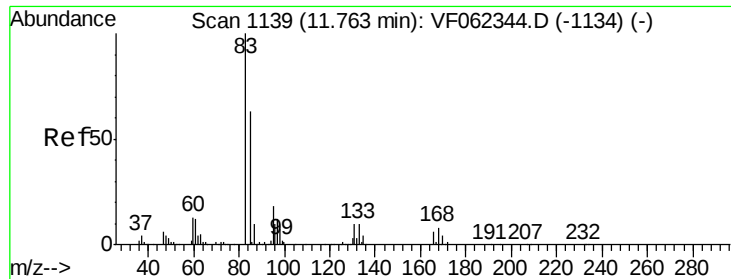


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.875 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. -0.02 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

SB-2(34)

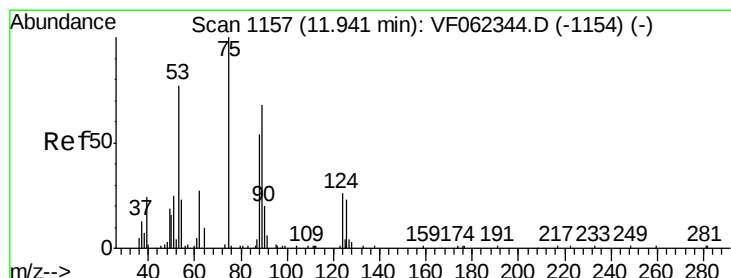
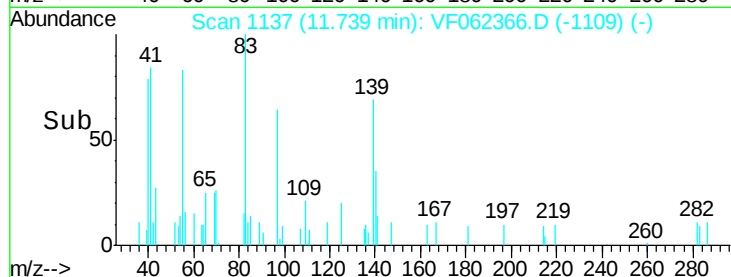
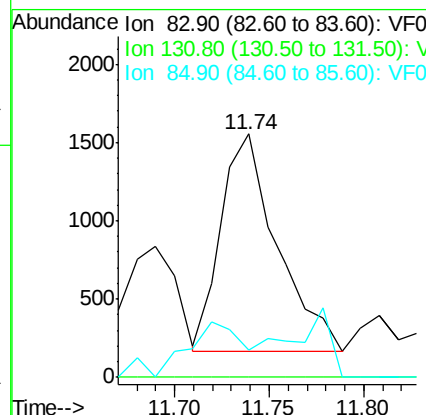
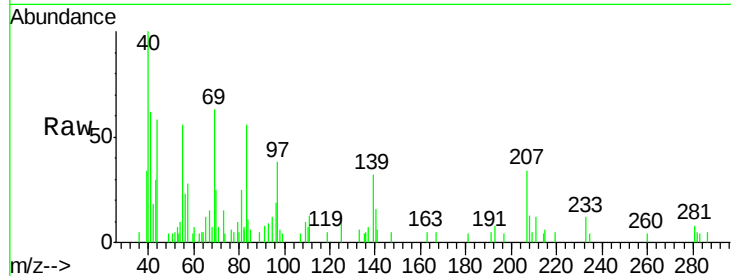
Tot Ion: 83 Resp: 2861

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

85 27.1 35.3 105.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 1.353 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

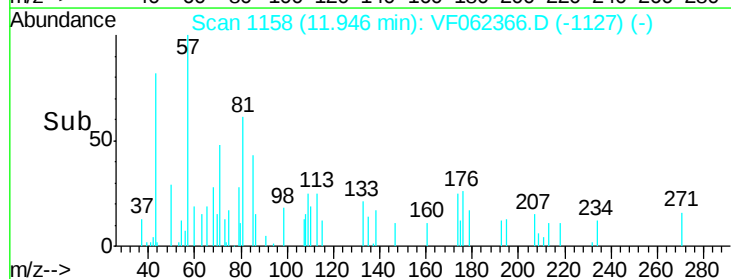
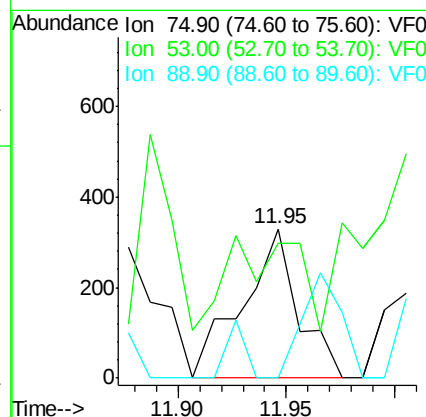
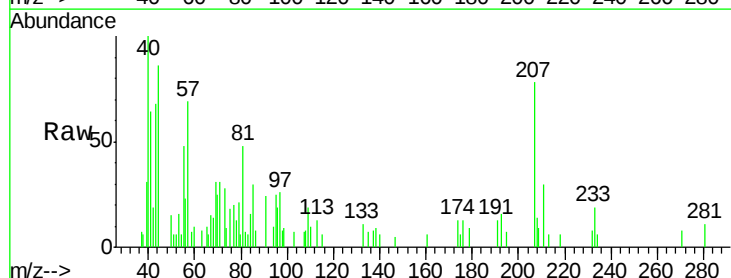
Tgt Ion: 75 Resp: 592

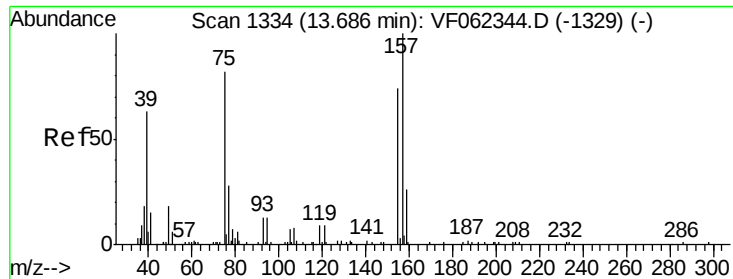
Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 49.5 0.0 0.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.115 ug/l

RT: 13.68 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

SB-2(34)

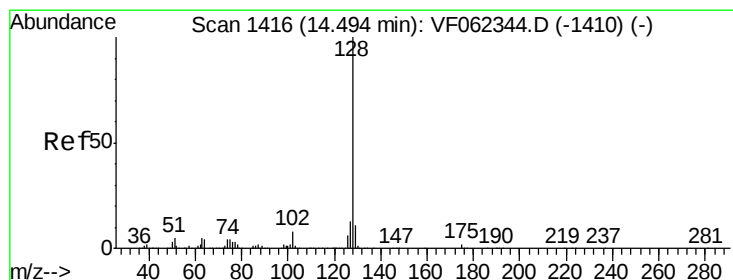
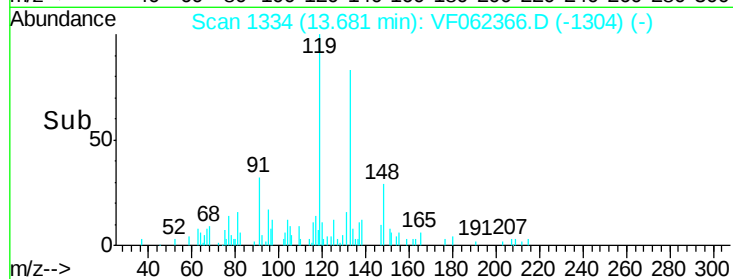
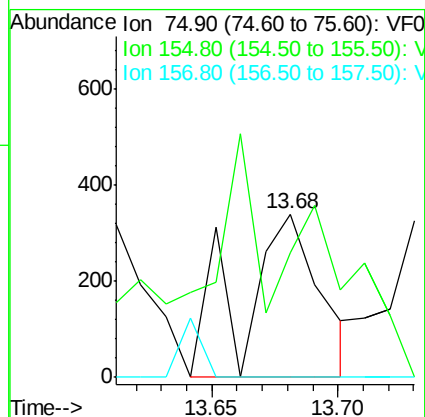
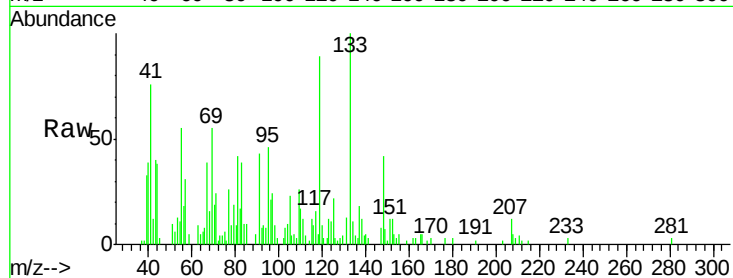
Tot Ion: 75 Resp: 723

Ion Ratio Lower Upper

75 100

155 41.9 51.8 155.4#

157 0.0 67.3 201.8#



#95

Naphthalene

Concen: 2.211 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062366.D

Acq: 7 May 2019 19:17

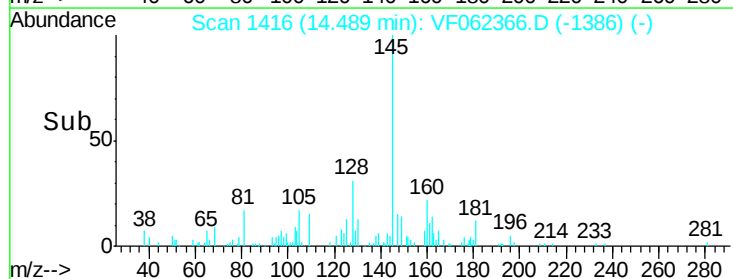
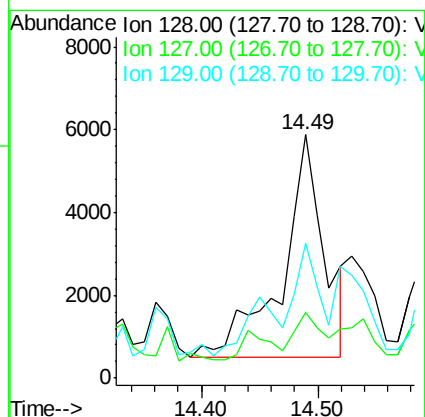
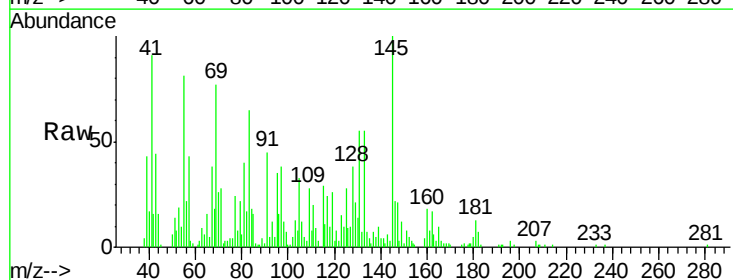
Tgt Ion: 128 Resp: 13479

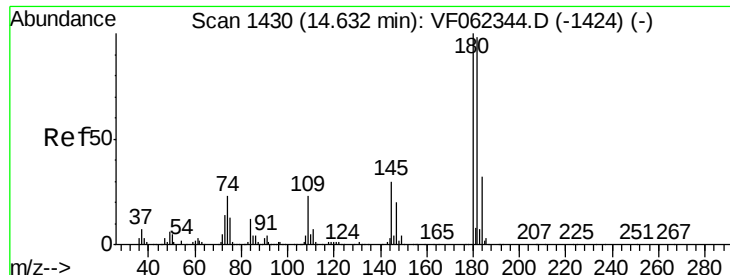
Ion Ratio Lower Upper

128 100

127 13.7 10.5 15.7

129 30.5 8.6 12.8#

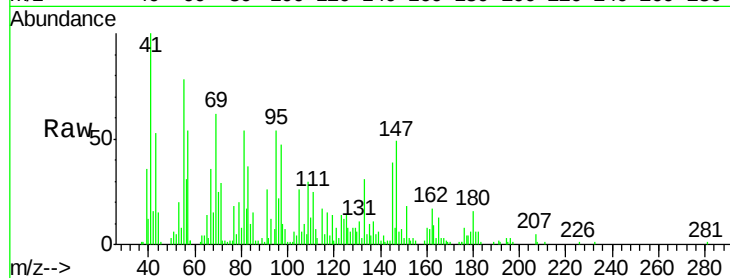




#96
 1,2,3-Trichlorobenzene
 Concen: 1.351 ug/l
 RT: 14.67 min Scan# 1434
 Delta R.T. 0.03 min
 Lab File: VF062366.D
 Acq: 7 May 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(34)

Tot Ion:180 Resp: 5309
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.4 148.0#
 145 123.9 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

