

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031819\
 Data File : VF061996.D
 Acq On : 18 Mar 2019 14:37
 Operator : VA/AP
 Sample : K1926-01RE
 Misc : 5.04g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 19 01:21:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	156583	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	227931	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	150570	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	51665	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	73709	65.39	ug/l	-0.01
Spiked Amount			Recovery	=	130.78%	
35) Dibromofluoromethane	4.10	113	107131	69.99	ug/l	-0.01
Spiked Amount			Recovery	=	139.98%	
50) Toluene-d8	7.54	98	250884	56.07	ug/l	-0.01
Spiked Amount			Recovery	=	112.14%	
62) 4-Bromofluorobenzene	11.40	95	74762	42.06	ug/l	-0.01
Spiked Amount			Recovery	=	84.12%	

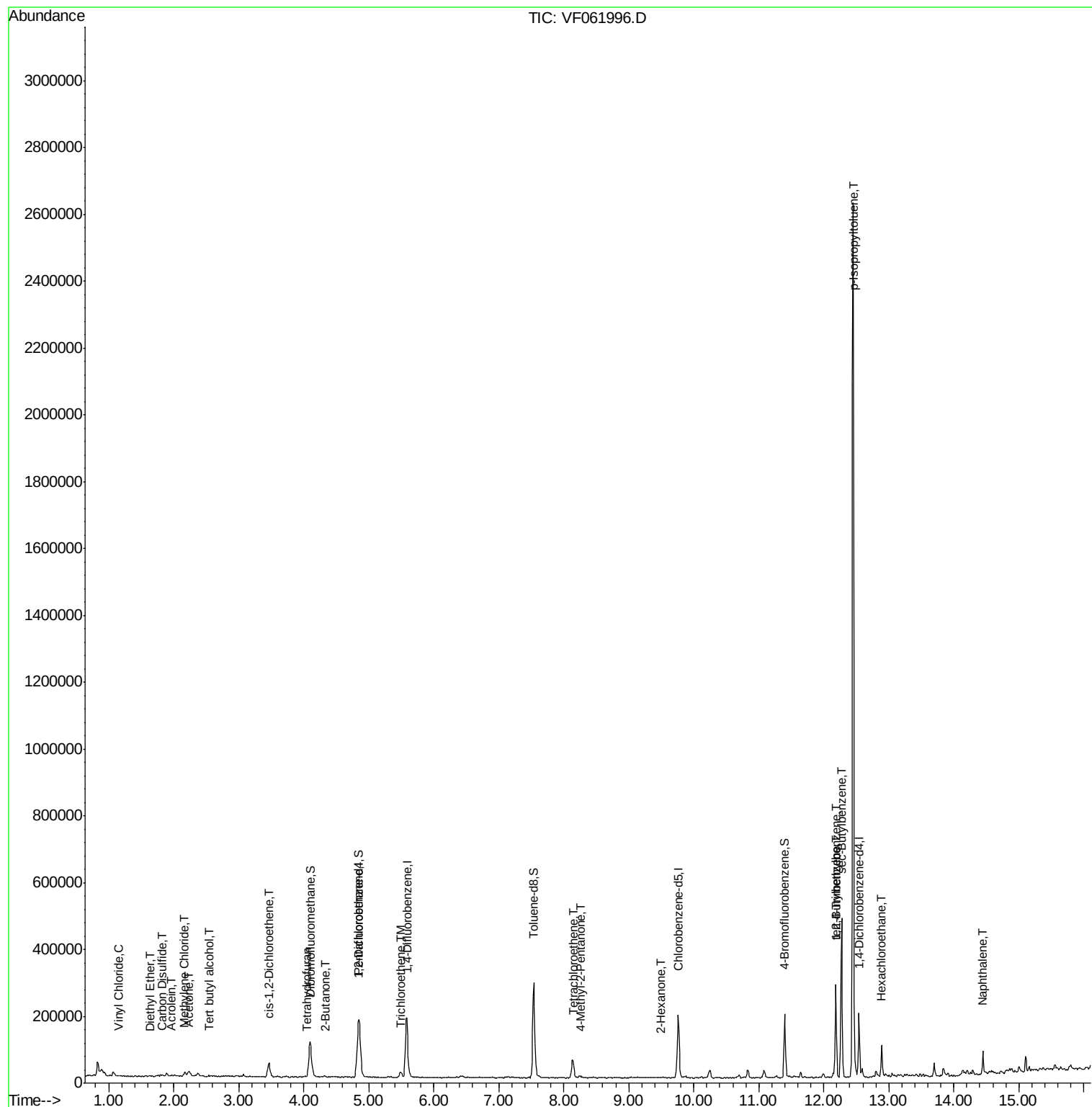
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.15	62	2627	1.601	ug/l #	82
8) Diethyl Ether	1.63	74	564	1.167	ug/l	81
11) Tert butyl alcohol	2.54	59	598	8.670	ug/l #	71
13) Acrolein	1.96	56	379	5.090	ug/l #	12
16) Acetone	2.24	43	18626	73.590	ug/l	92
17) Carbon Disulfide	1.81	76	14689	3.843	ug/l #	89
20) Methylene Chloride	2.17	84	5761	4.421	ug/l #	84
25) 2-Butanone	4.33	43	5670	11.311	ug/l	91
27) cis-1,2-Dichloroethene	3.47	96	27865	16.030	ug/l	95
29) Tetrahydrofuran	4.04	42	521	2.390	ug/l #	33
44) Trichloroethene	5.50	130	8117	4.858	ug/l	83
51) 4-Methyl-2-Pentanone	8.25	43	6417	8.264	ug/l	97
59) 2-Hexanone	9.48	43	1190	2.118	ug/l	62
64) Tetrachloroethene	8.14	164	18729	17.112	ug/l	93
83) tert-Butylbenzene	12.18	119	15861	5.260	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.18	105	15647	5.418	ug/l #	62
85) sec-Butylbenzene	12.27	105	7618	1.870	ug/l	93
86) p-Isopropyltoluene	12.45	119	1515933	445.930	ug/l	96
90) Hexachloroethane	12.89	117	1463	1.886	ug/l #	18
95) Naphthalene	14.44	128	3111	1.651	ug/l #	81

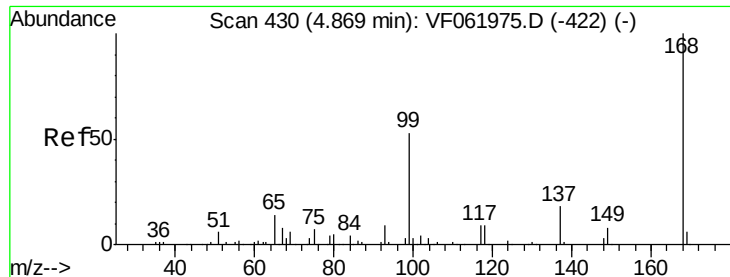
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

Instrument :

MSVOA_F

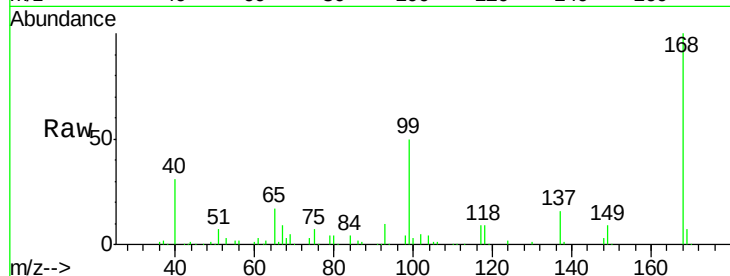
ClientSampleId :

Tot Ion:168 Resp: 156583

Ion Ratio Lower Upper

168 100

99 50.1 42.4 63.6

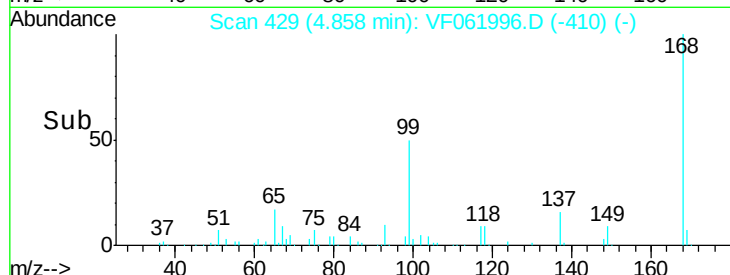


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

Time-->



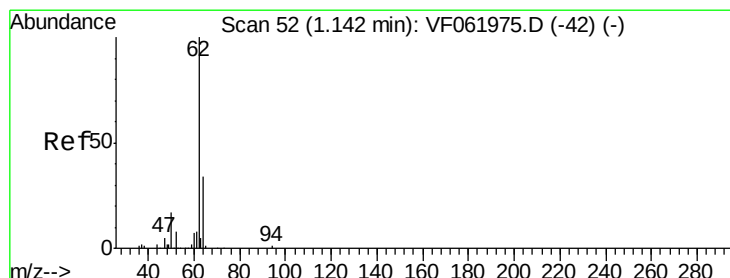
Abundance

Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

Time-->



#4

Vinyl Chloride

Concen: 1.601 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.01 min

Lab File: VF061996.D

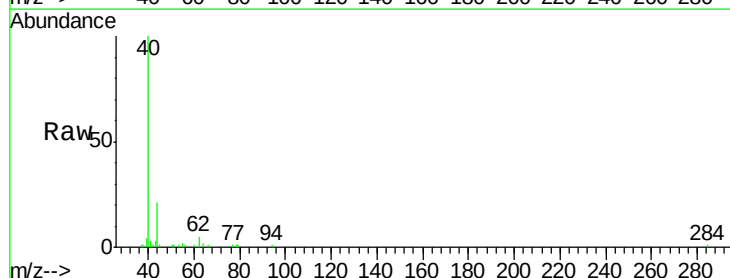
Acq: 18 Mar 2019 14:37

Tgt Ion: 62 Resp: 2627

Ion Ratio Lower Upper

62 100

64 44.5 27.4 41.2#

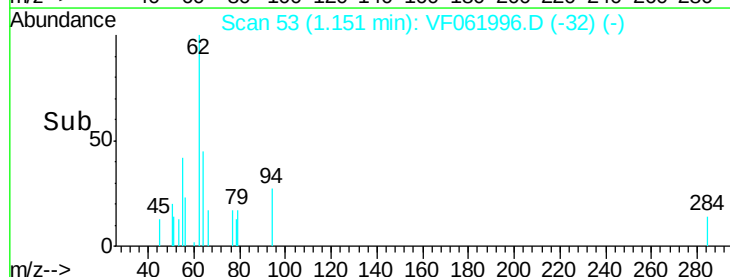


Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.15

Time-->



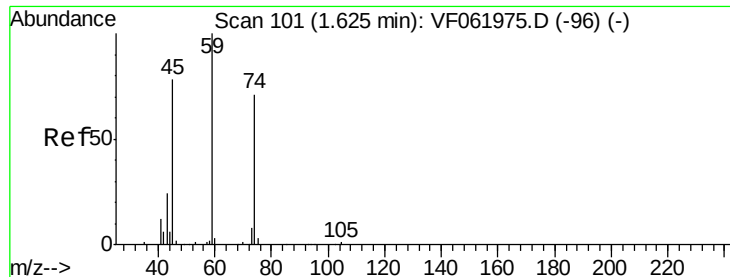
Abundance

Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.15

Time-->



#8

Diethyl Ether

Concen: 1.167 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

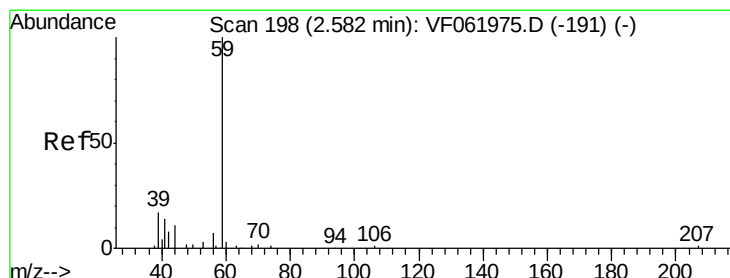
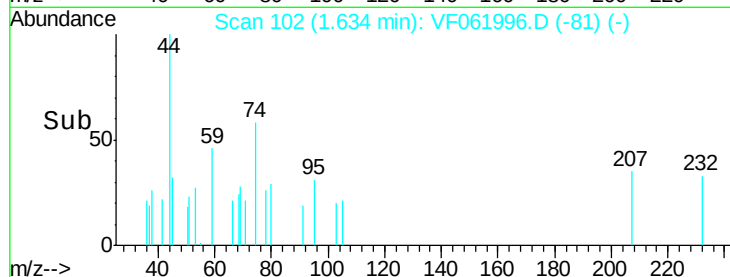
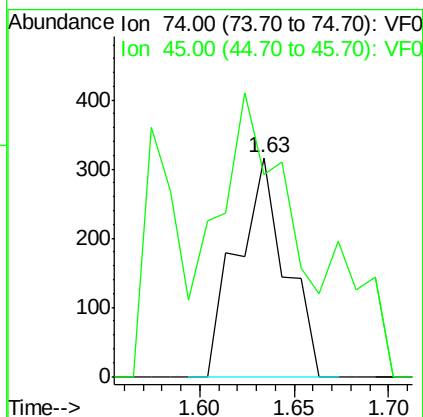
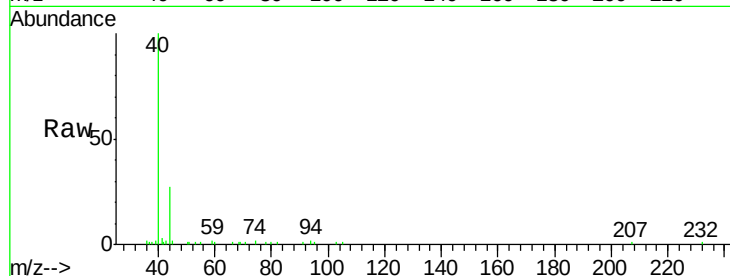
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 564

Ion Ratio Lower Upper

74 100

45 92.4 56.3 168.8



#11

Tert butyl alcohol

Concen: 8.670 ug/l

RT: 2.54 min Scan# 194

Delta R.T. -0.04 min

Lab File: VF061996.D

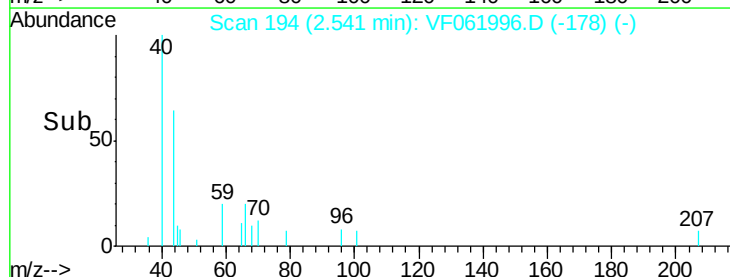
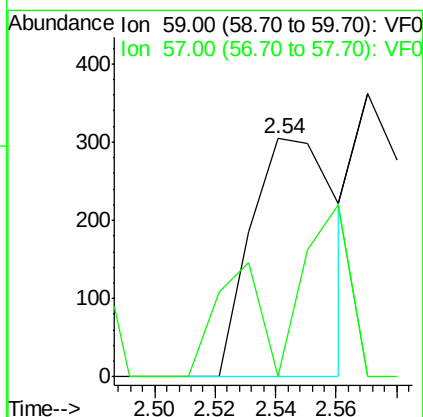
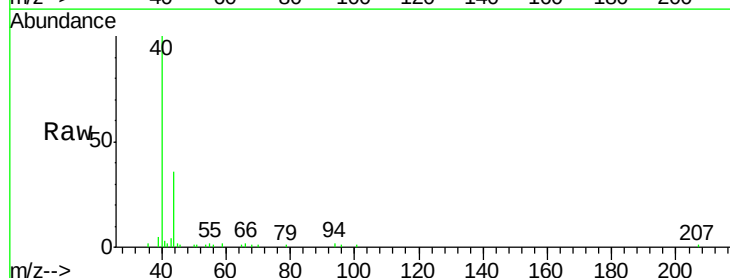
Acq: 18 Mar 2019 14:37

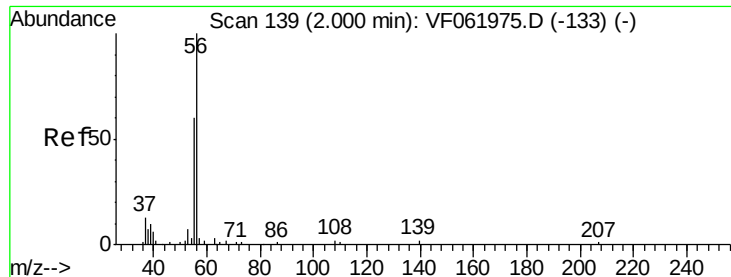
Tgt Ion: 59 Resp: 598

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#





#13

Acrolein

Concen: 5.090 ug/l

RT: 1.96 min Scan# 135

Delta R.T. -0.04 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

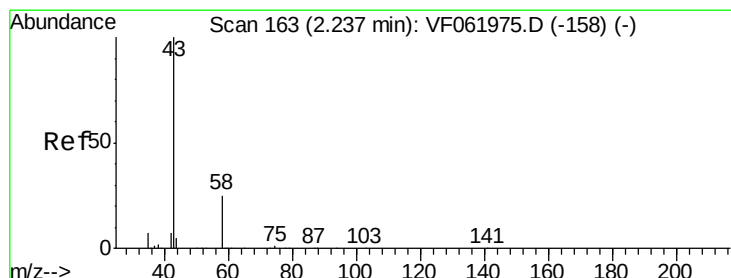
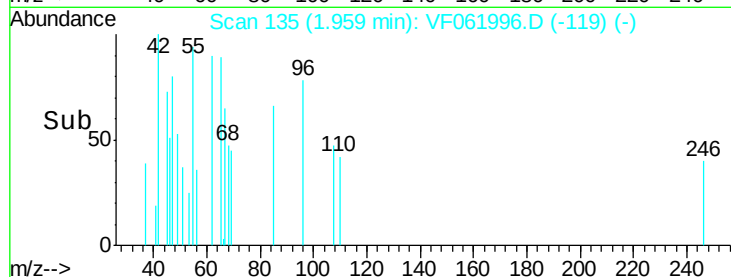
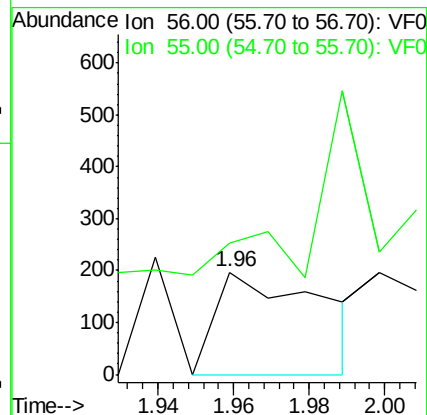
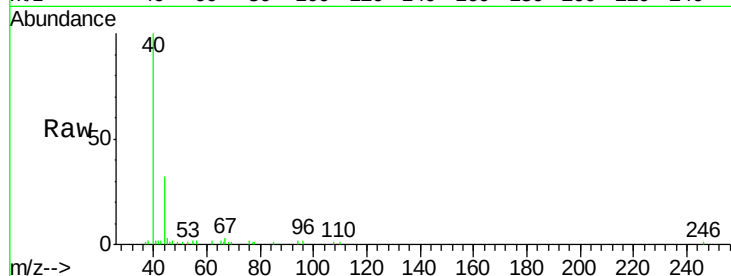
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 379

Ion Ratio Lower Upper

56 100

55 128.4 49.1 73.7#



#16

Acetone

Concen: 73.590 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061996.D

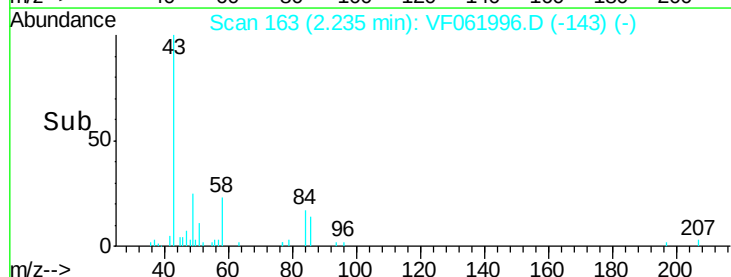
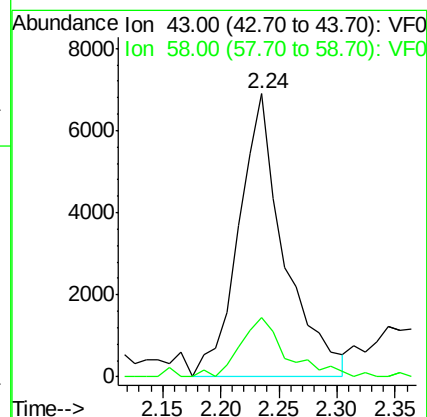
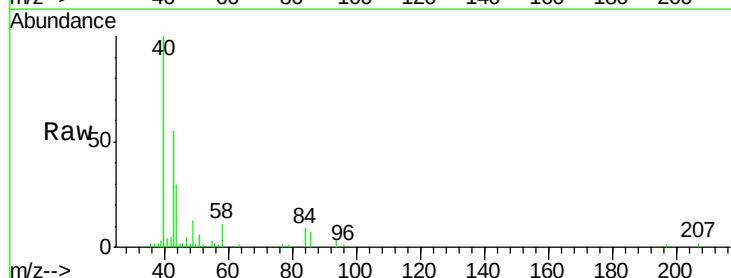
Acq: 18 Mar 2019 14:37

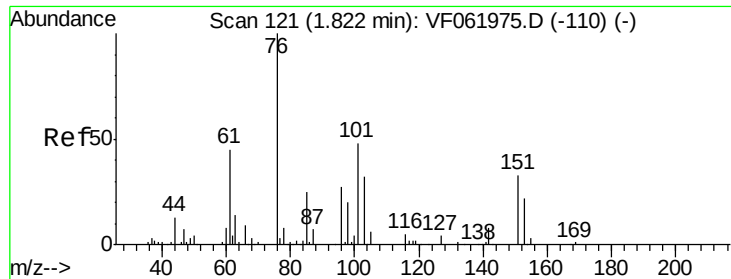
Tgt Ion: 43 Resp: 18626

Ion Ratio Lower Upper

43 100

58 20.9 19.9 29.9





#17

Carbon Disulfide

Concen: 3.843 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

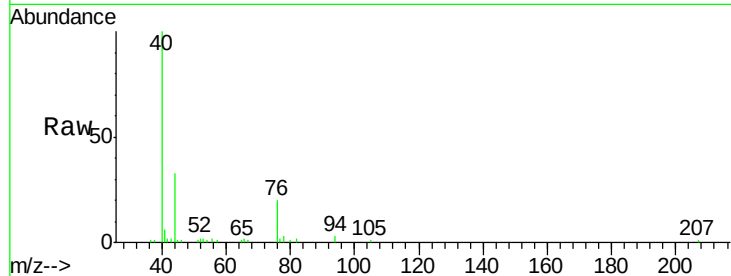
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 14689

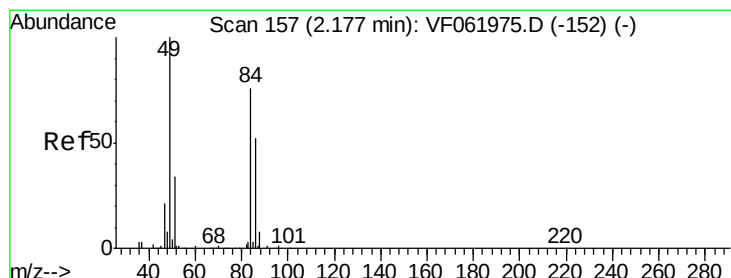
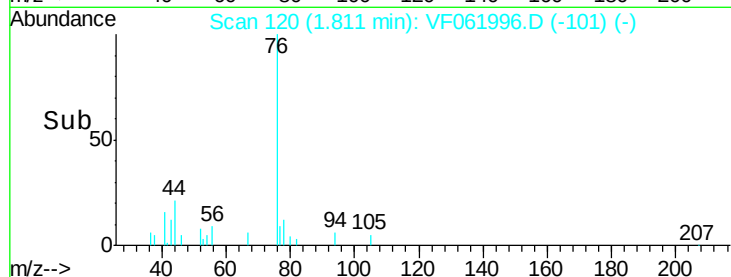
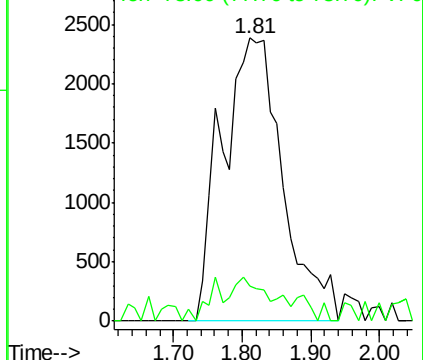
Ion Ratio Lower Upper

76 100

78 12.3 6.8 10.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0
Ion 78.00 (77.70 to 78.70): VF0



#20

Methylene Chloride

Concen: 4.421 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

Tgt Ion: 84 Resp: 5761

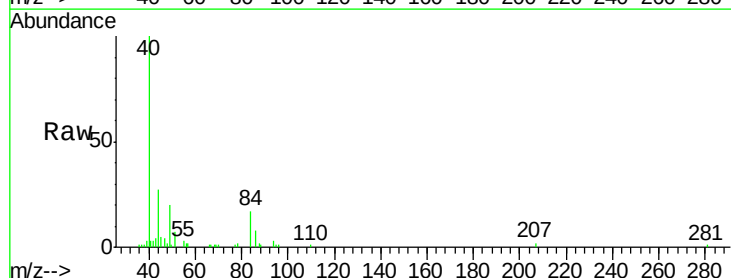
Ion Ratio Lower Upper

84 100

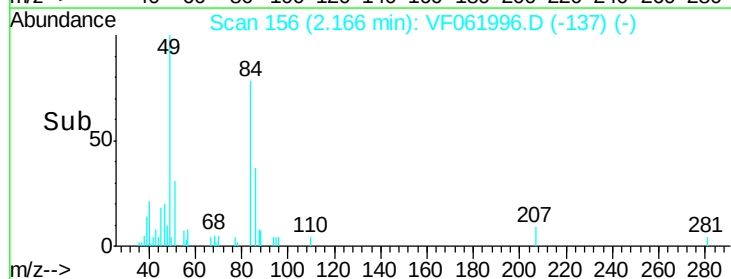
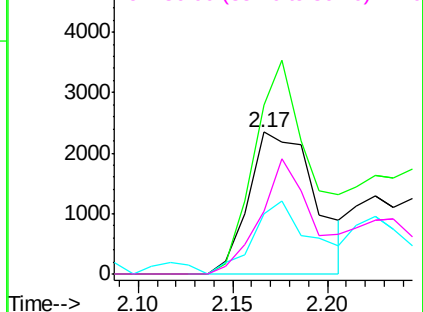
49 118.9 107.0 160.6

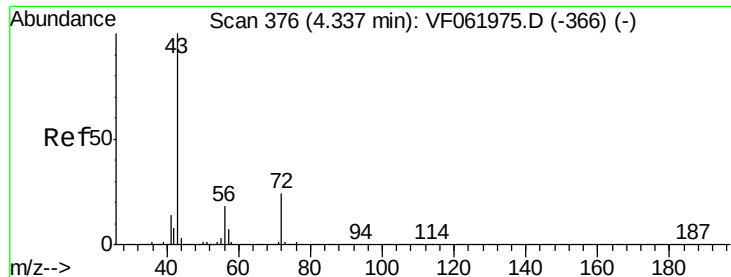
51 42.4 37.2 55.8

86 44.4 55.3 82.9#



Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 11.311 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

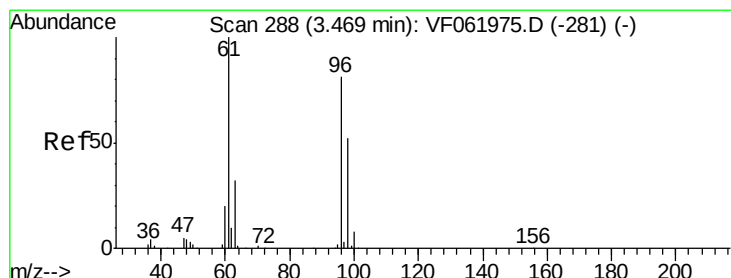
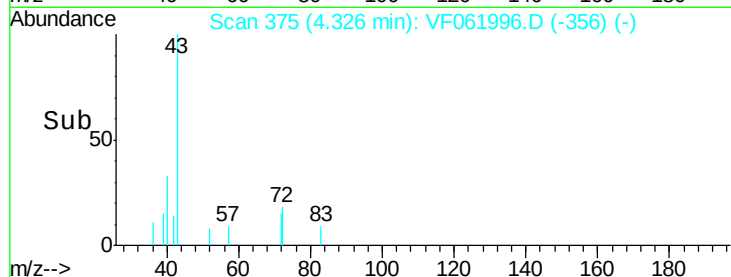
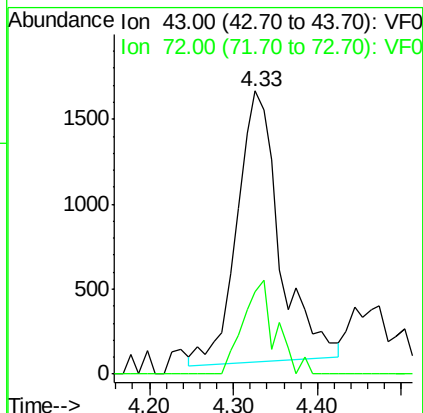
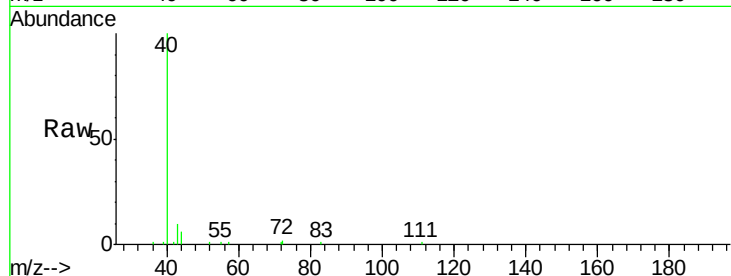
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 5670

Ion Ratio Lower Upper

43 100

72 29.2 19.8 29.6



#27

cis-1,2-Dichloroethene

Concen: 16.030 ug/l

RT: 3.47 min Scan# 288

Delta R.T. -0.00 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

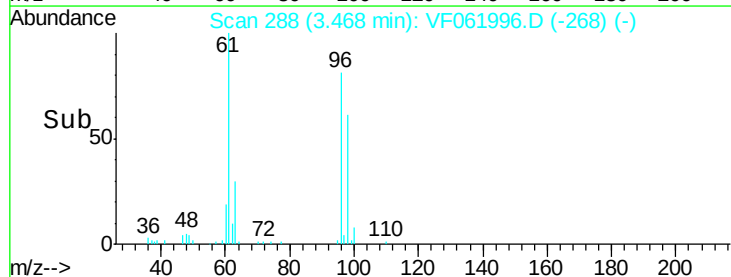
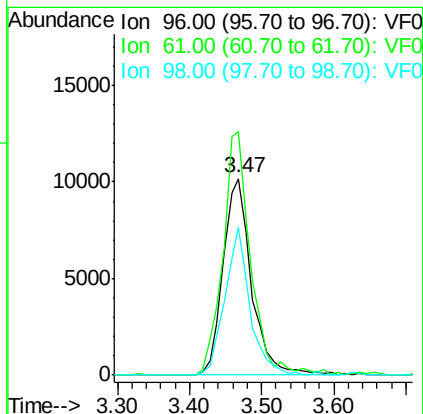
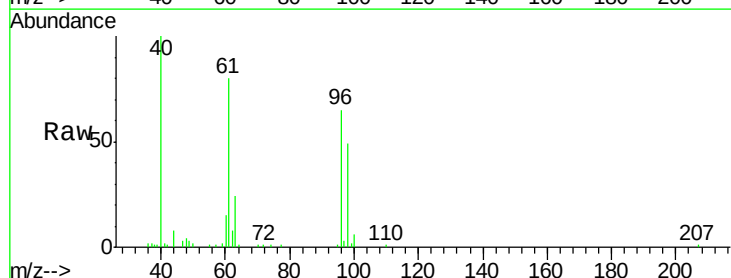
Tgt Ion: 96 Resp: 27865

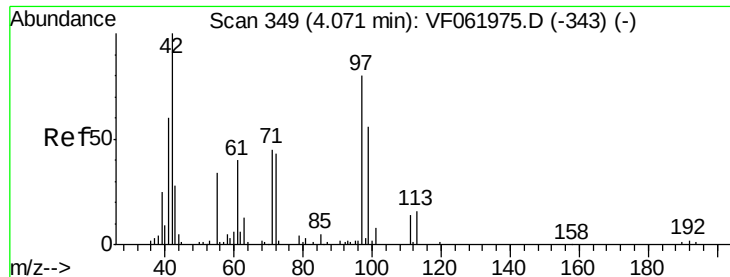
Ion Ratio Lower Upper

96 100

61 123.7 0.0 246.6

98 75.2 0.0 129.2

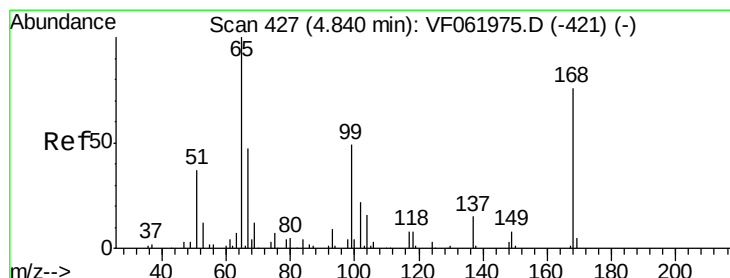
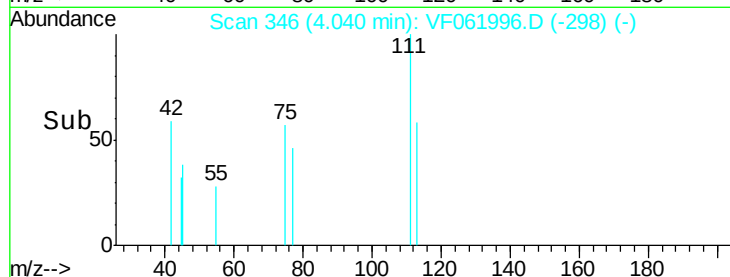
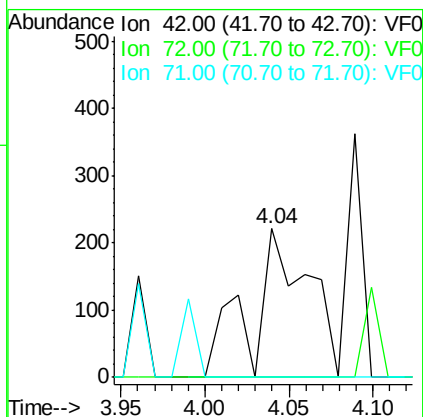
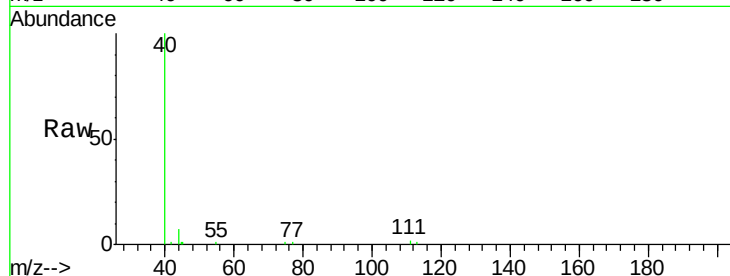




#29
Tetrahydrofuran
Concen: 2.390 ug/l
RT: 4.04 min Scan# 346
Delta R.T. -0.03 min
Lab File: VF061996.D
Acq: 18 Mar 2019 14:37

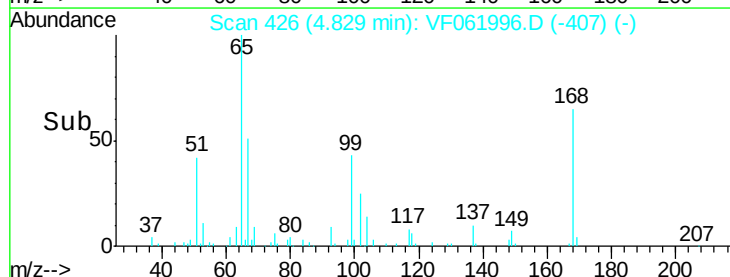
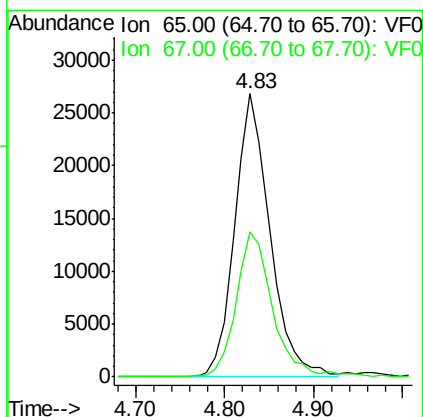
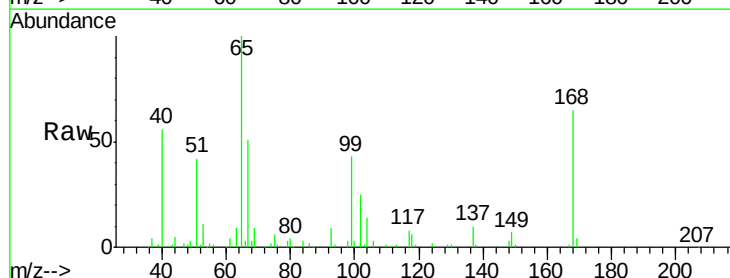
Instrument :
MSVOA_F
ClientSampled :

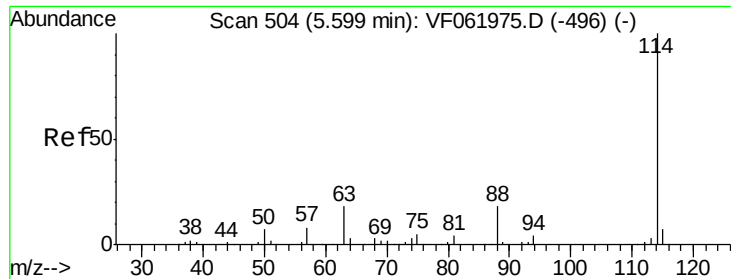
Tot Ion: 42 Resp: 521
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 34.2 51.4#



#33
1,2-Dichloroethane-d4
Concen: 65.394 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.01 min
Lab File: VF061996.D
Acq: 18 Mar 2019 14:37

Tgt Ion: 65 Resp: 73709
Ion Ratio Lower Upper
65 100
67 51.1 0.0 109.4

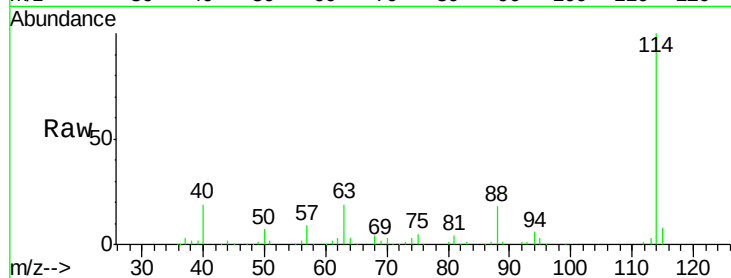




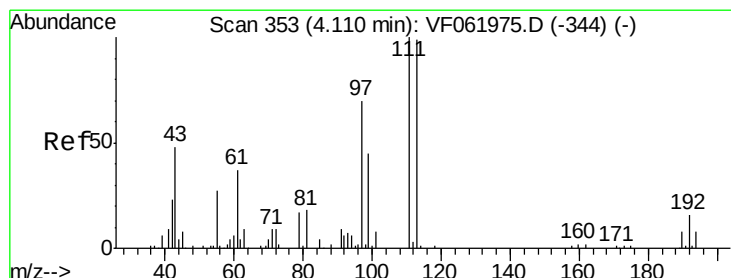
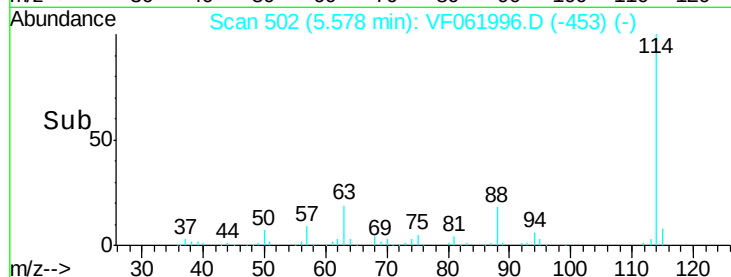
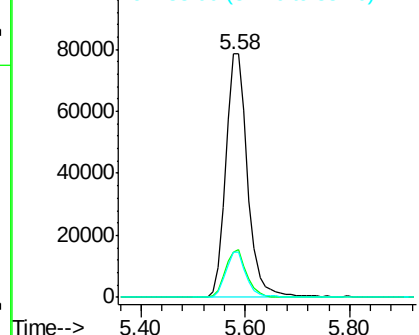
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.02 min
 Lab File: VF061996.D
 Acq: 18 Mar 2019 14:37

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:114 Resp: 227931
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 36.4
 88 18.3 0.0 36.4

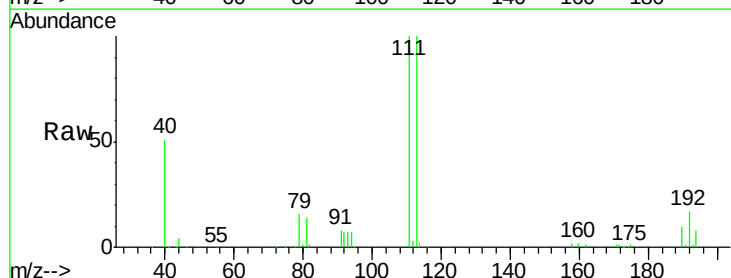


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

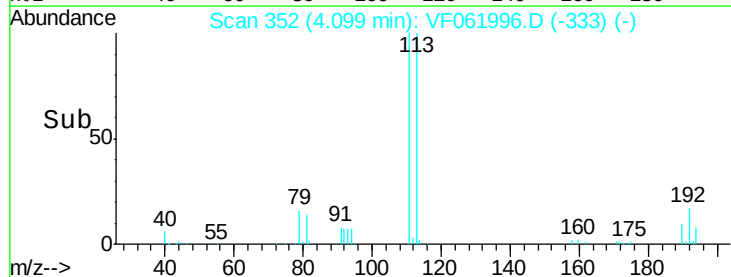
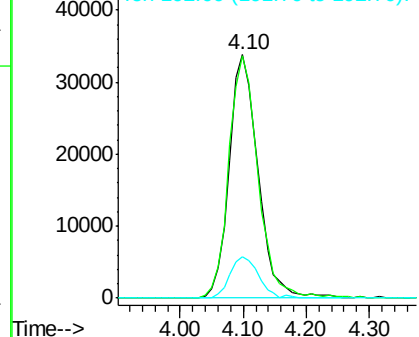


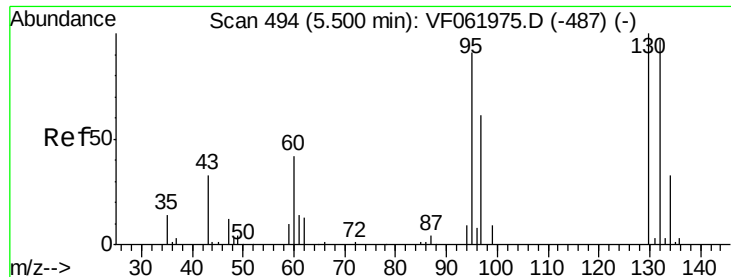
#35
 Dibromofluoromethane
 Concen: 69.993 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VF061996.D
 Acq: 18 Mar 2019 14:37

Tgt Ion:113 Resp: 107131
 Ion Ratio Lower Upper
 113 100
 111 99.6 80.8 121.2
 192 17.2 13.0 19.6



Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V





#44

Trichloroethene

Concen: 4.858 ug/l

RT: 5.50 min Scan# 494

Delta R.T. -0.00 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

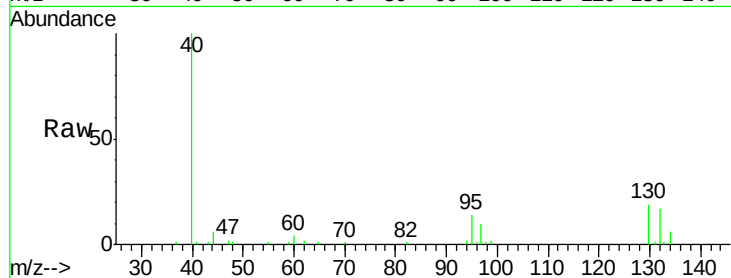
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:130 Resp: 8117

Ion Ratio Lower Upper

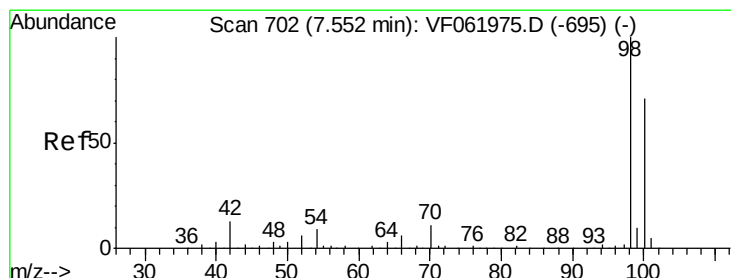
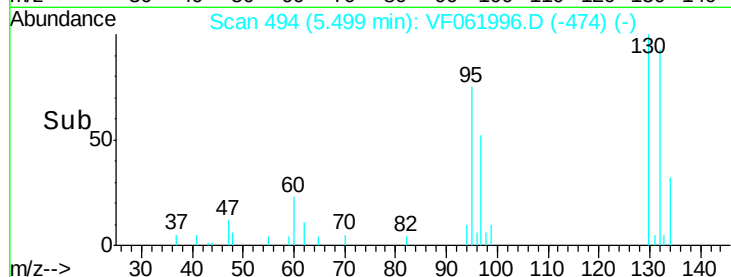
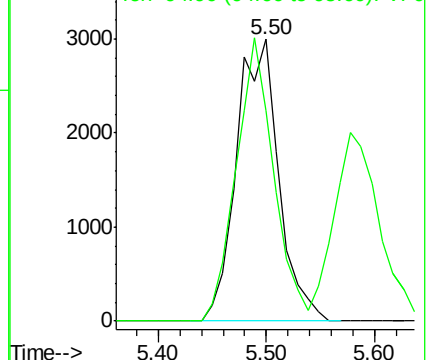
130 100

95 74.7 0.0 181.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#50

Toluene-d8

Concen: 56.071 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF061996.D

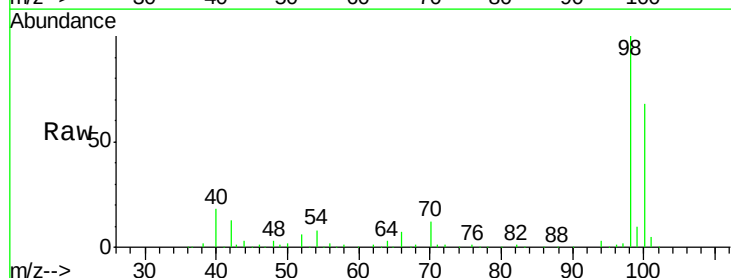
Acq: 18 Mar 2019 14:37

Tgt Ion: 98 Resp: 250884

Ion Ratio Lower Upper

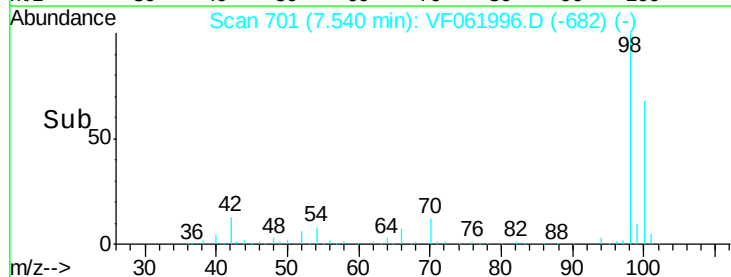
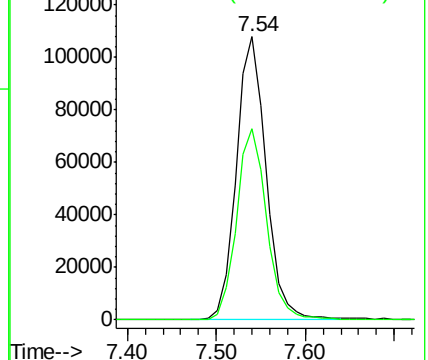
98 100

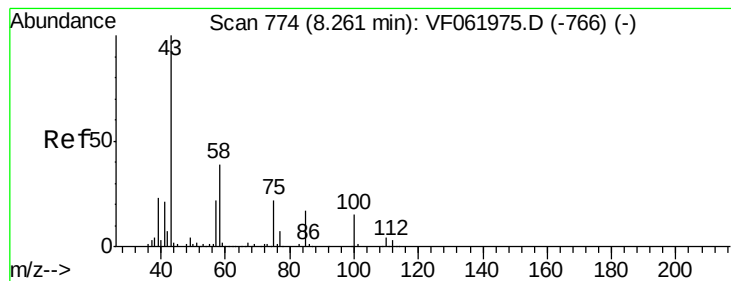
100 67.6 56.8 85.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 8.264 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

Instrument :

MSVOA_F

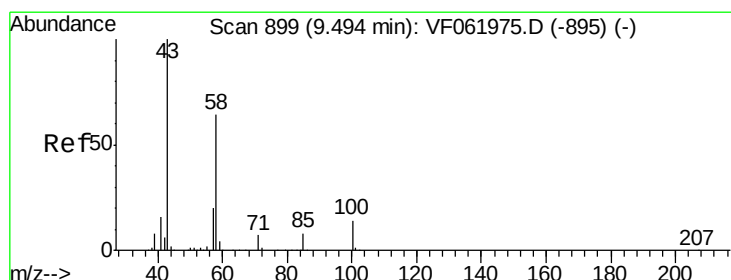
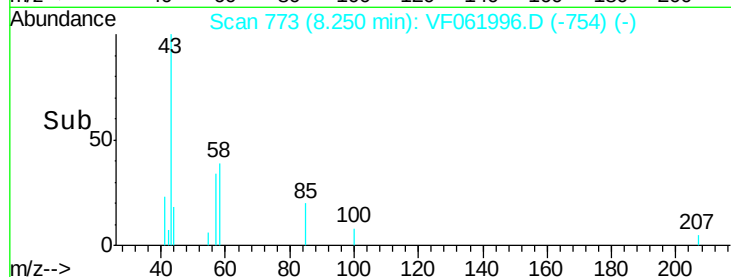
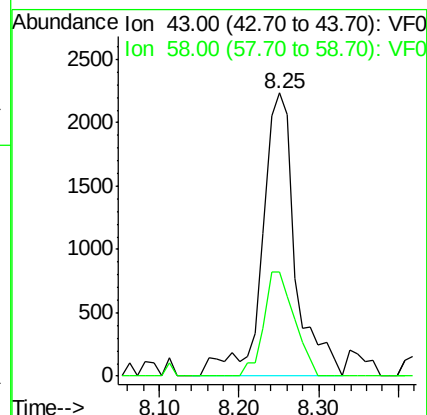
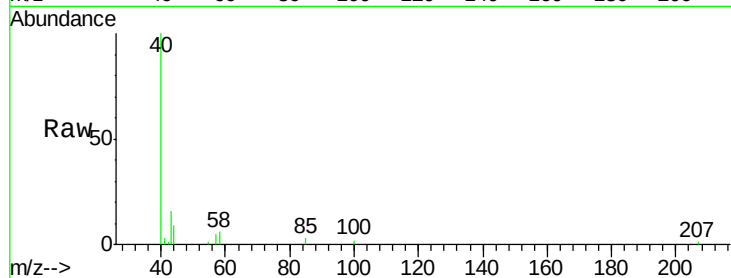
ClientSampleId :

Tot Ion: 43 Resp: 6417

Ion Ratio Lower Upper

43 100

58 36.8 31.1 46.7



#59

2-Hexanone

Concen: 2.118 ug/l

RT: 9.48 min Scan# 898

Delta R.T. -0.01 min

Lab File: VF061996.D

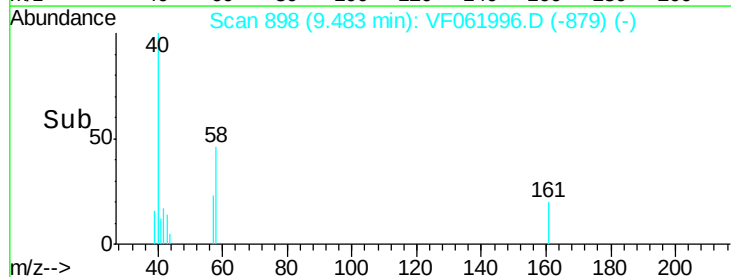
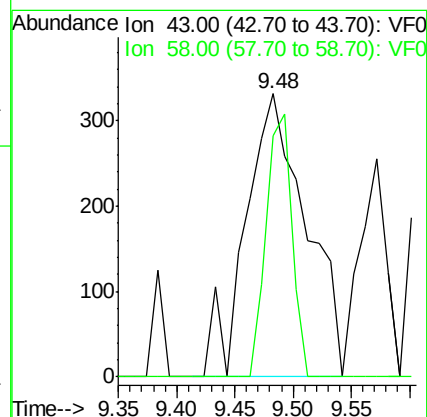
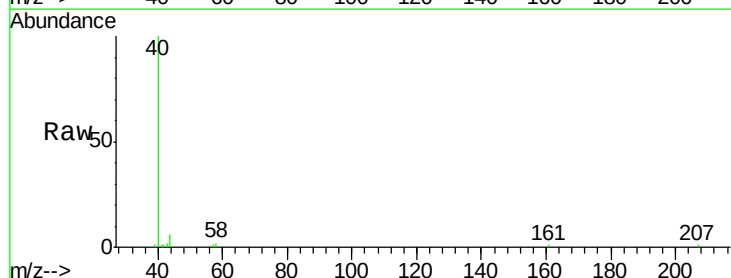
Acq: 18 Mar 2019 14:37

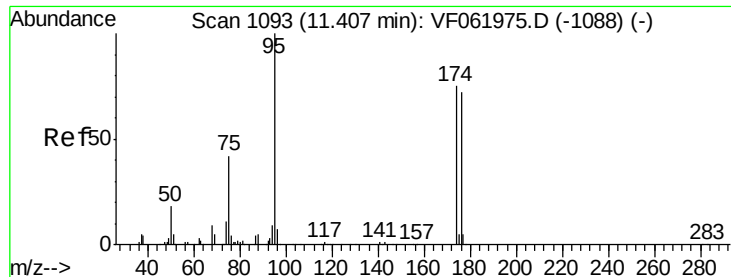
Tgt Ion: 43 Resp: 1190

Ion Ratio Lower Upper

43 100

58 84.9 28.4 85.2





#62

4-Bromofluorobenzene

Concen: 42.060 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

Instrument :

MSVOA_F

ClientSampleId :

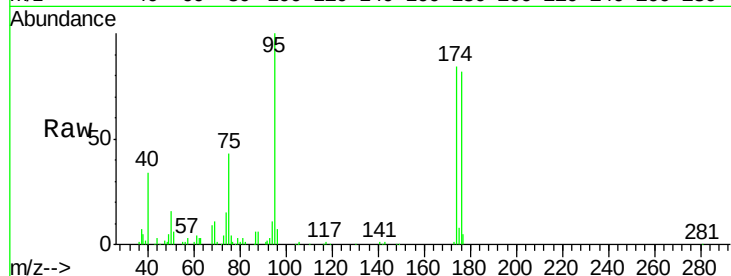
Tot Ion: 95 Resp: 74762

Ion Ratio Lower Upper

95 100

174 84.2 0.0 149.4

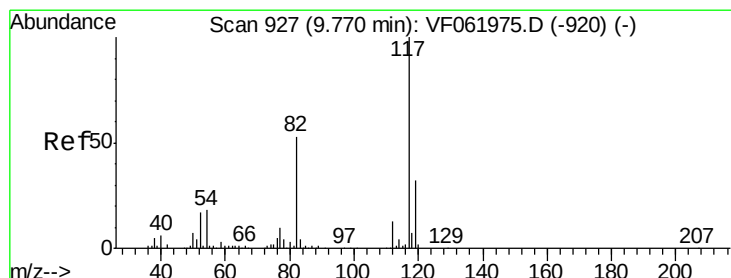
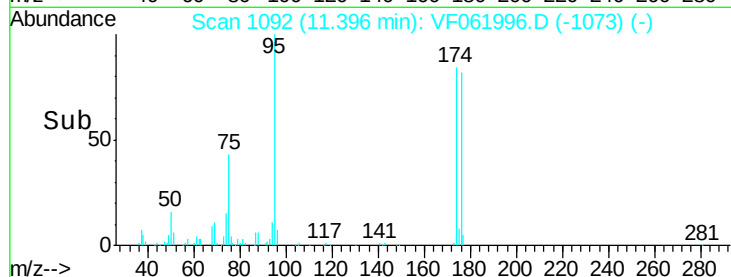
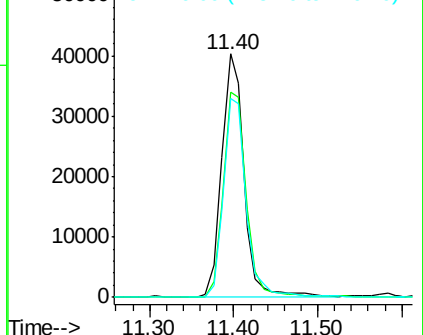
176 81.9 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

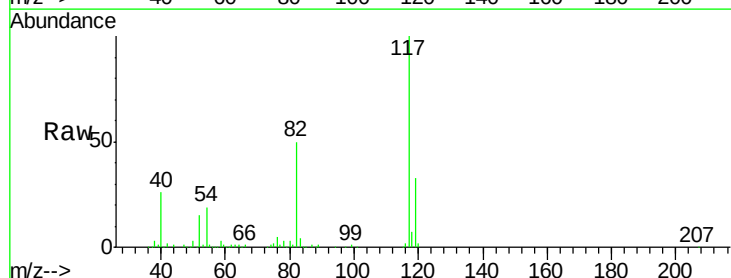
Tgt Ion: 117 Resp: 150570

Ion Ratio Lower Upper

117 100

82 50.2 42.5 63.7

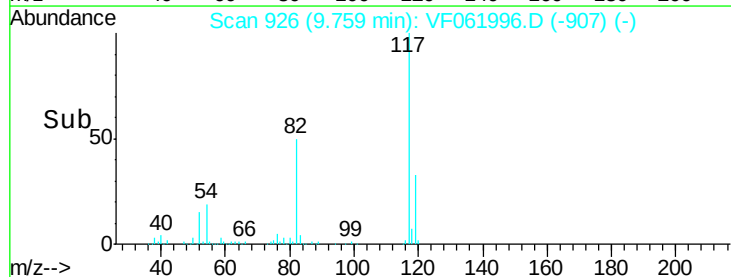
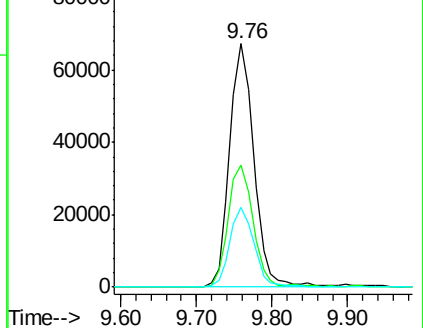
119 32.9 25.4 38.0

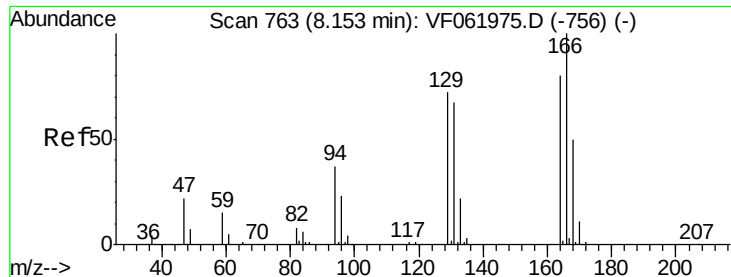


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#64

Tetrachloroethene

Concen: 17.112 ug/l

RT: 8.14 min Scan# 762

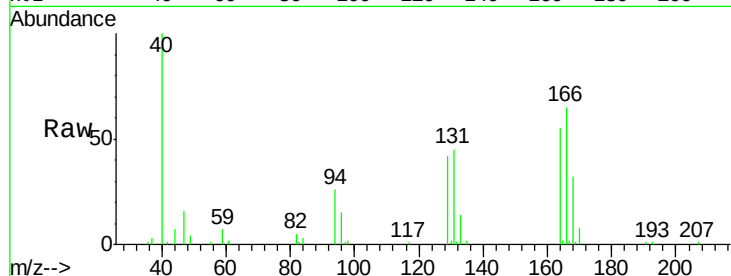
Delta R.T. -0.01 min

Lab File: VF061996.D

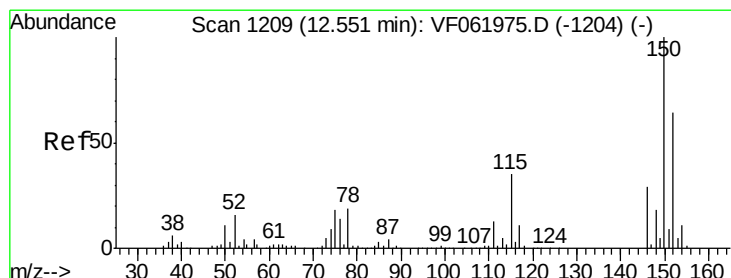
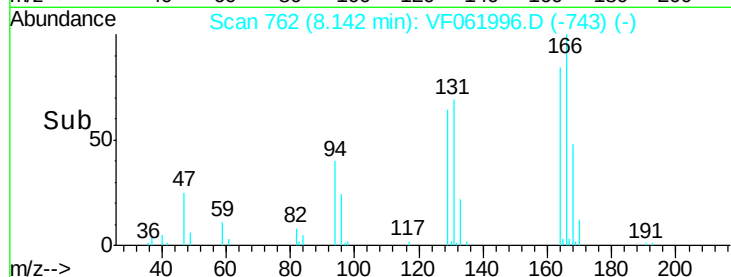
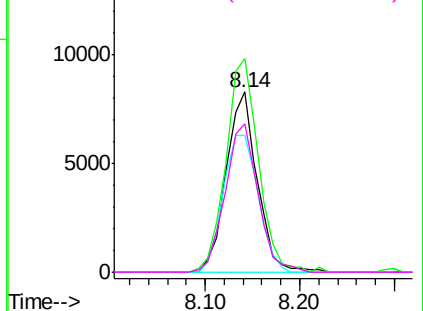
Acq: 18 Mar 2019 14:37

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:164	Resp:	18729
Ion	Ratio	Lower Upper
164	100	
166	118.7	100.0 150.0
129	76.2	72.4 108.6
131	82.5	67.1 100.7



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

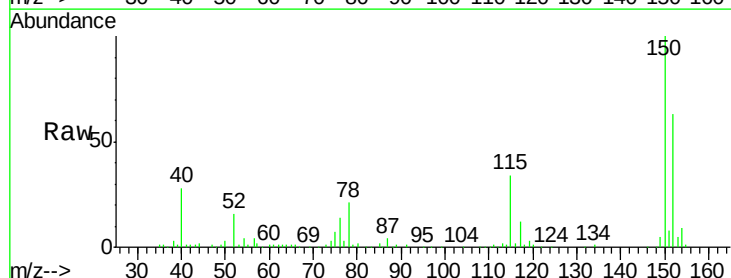
RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

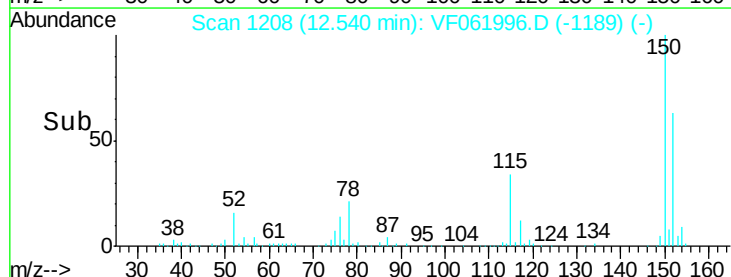
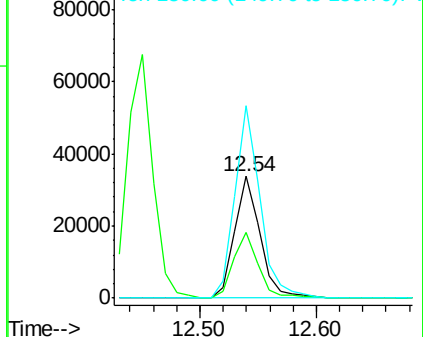
Lab File: VF061996.D

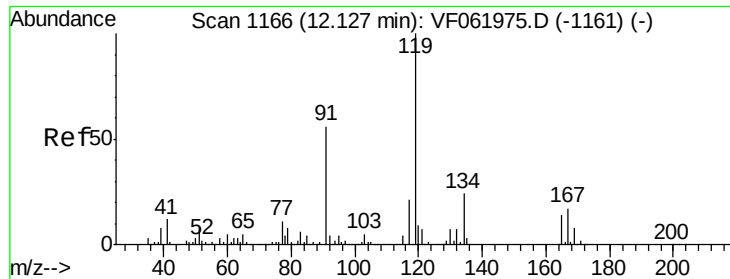
Acq: 18 Mar 2019 14:37

Tgt Ion:152	Resp:	51665
Ion	Ratio	Lower Upper
152	100	
115	53.9	27.3 81.9
150	157.6	0.0 316.2



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

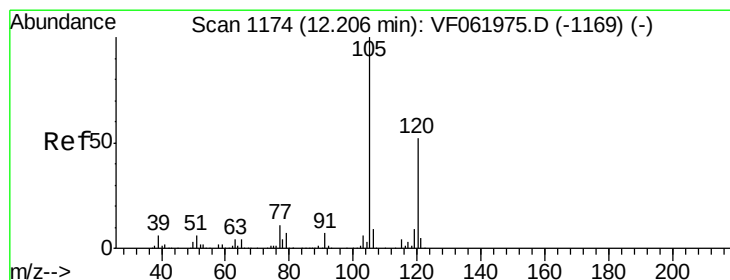
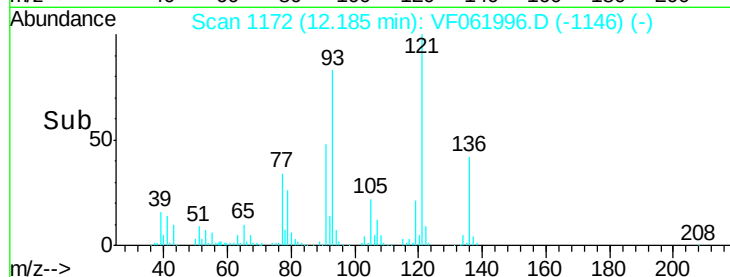
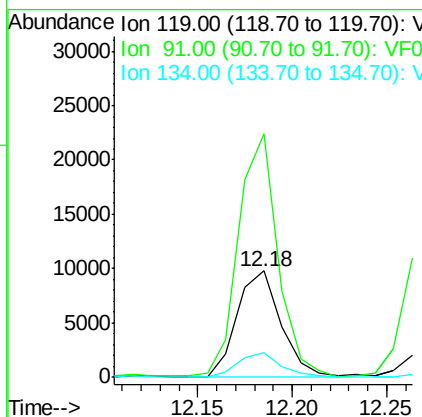
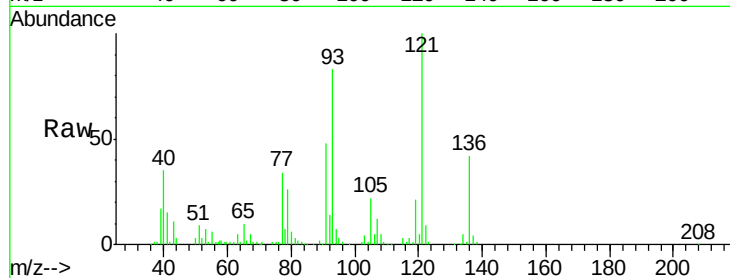




#83
 tert-Butylbenzene
 Concen: 5.260 ug/l
 RT: 12.18 min Scan# 1172
 Delta R.T. 0.06 min
 Lab File: VF061996.D
 Acq: 18 Mar 2019 14:37

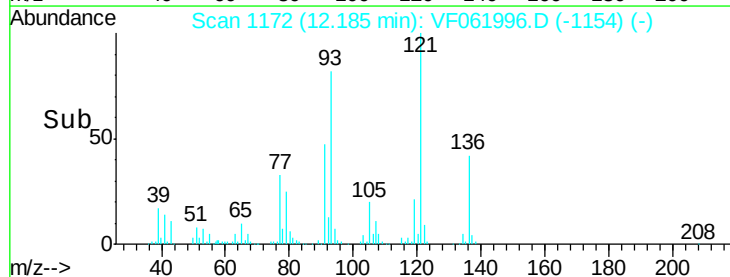
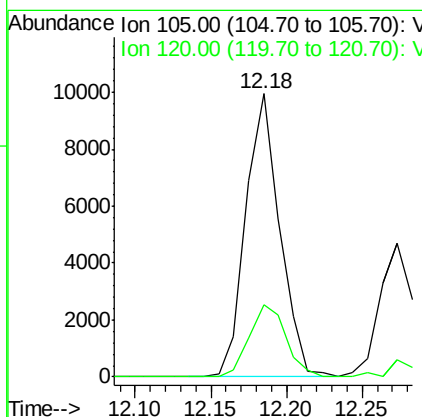
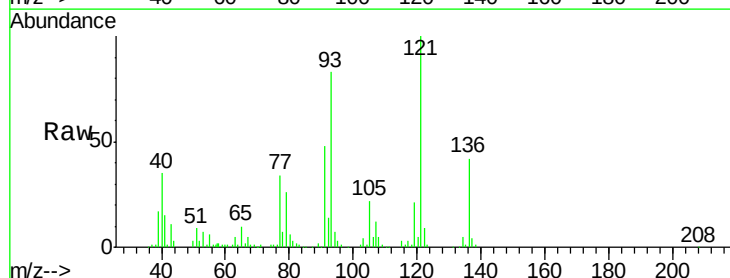
Instrument :
 MSVOA_F
 ClientSampled :

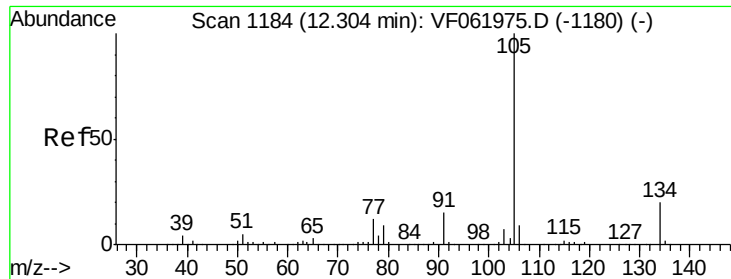
Tot Ion:119 Resp: 15861
 Ion Ratio Lower Upper
 119 100
 91 229.2 27.9 83.6#
 134 23.1 12.3 36.8



#84
 1,2,4-Trimethylbenzene
 Concen: 5.418 ug/l
 RT: 12.18 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: VF061996.D
 Acq: 18 Mar 2019 14:37

Tgt Ion:105 Resp: 15647
 Ion Ratio Lower Upper
 105 100
 120 25.5 25.9 77.8#





#85

sec-Butylbenzene

Concen: 1.870 ug/l

RT: 12.27 min Scan# 1181

Delta R.T. -0.03 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

Instrument :

MSVOA_F

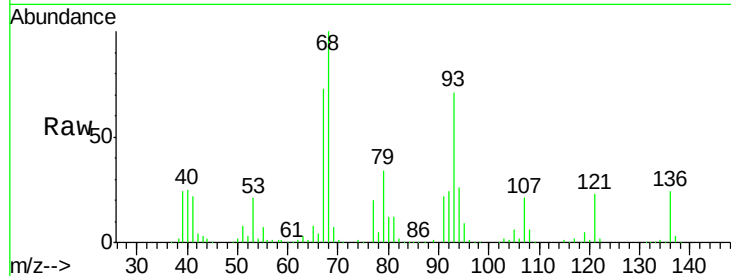
ClientSampleId :

Tot Ion:105 Resp: 7618

Ion Ratio Lower Upper

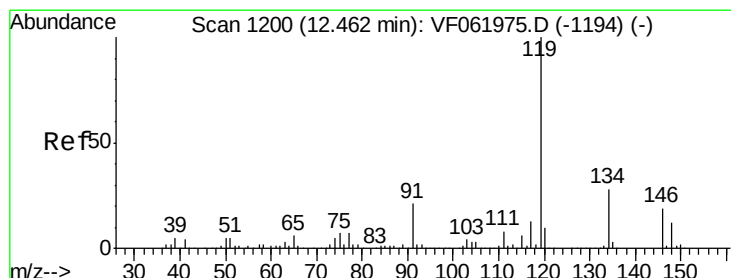
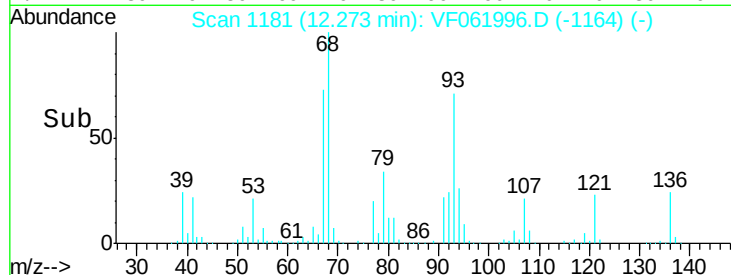
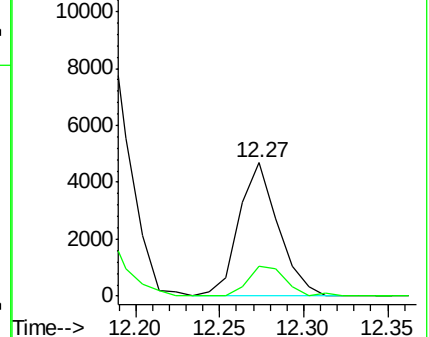
105 100

134 22.9 10.0 29.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 445.930 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

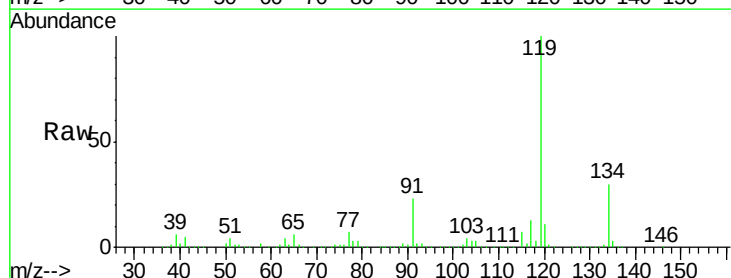
Tgt Ion:119 Resp: 1515933

Ion Ratio Lower Upper

119 100

134 29.6 13.9 41.7

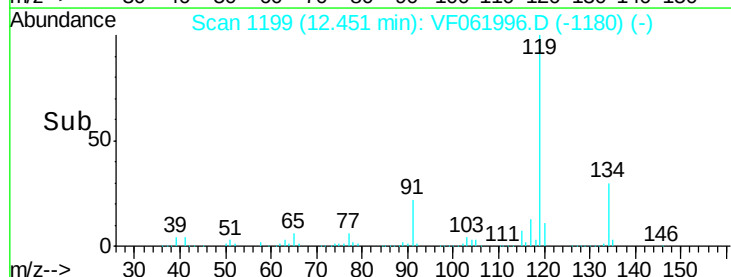
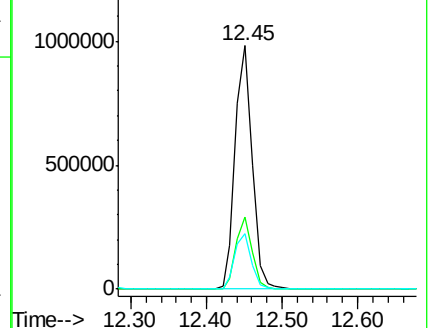
91 22.8 10.4 31.1

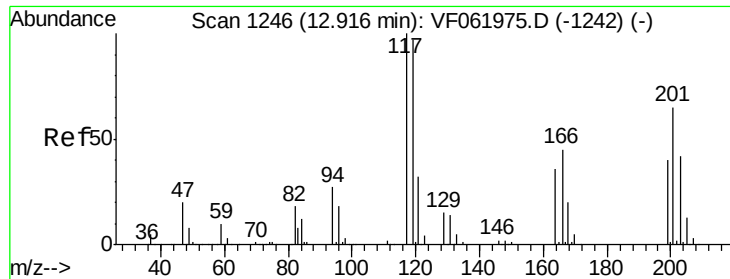


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#90

Hexachloroethane

Concen: 1.886 ug/l

RT: 12.89 min Scan# 1244

Delta R.T. -0.02 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

Instrument :

MSVOA_F

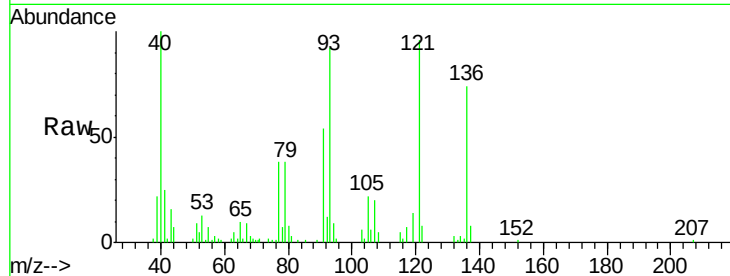
ClientSampleId :

Tot Ion:117 Resp: 1463

Ion Ratio Lower Upper

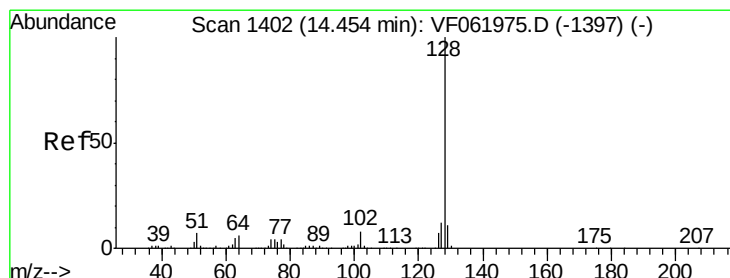
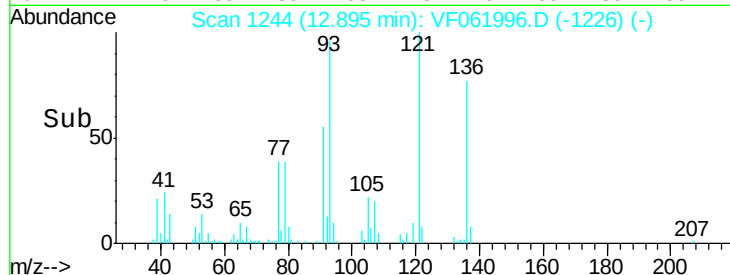
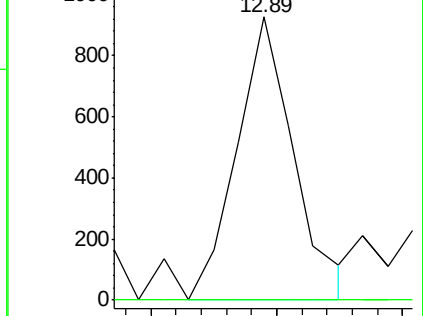
117 100

201 0.0 32.5 97.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#95

Naphthalene

Concen: 1.651 ug/l

RT: 14.44 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF061996.D

Acq: 18 Mar 2019 14:37

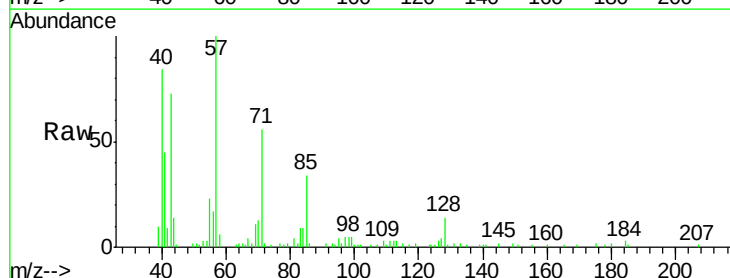
Tgt Ion:128 Resp: 3111

Ion Ratio Lower Upper

128 100

127 24.9 9.3 13.9#

129 10.2 9.1 13.7



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

