

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022719\
 Data File : VF061781.D
 Acq On : 27 Feb 2019 22:18
 Operator : VA/AP
 Sample : K1358-05
 Misc : 10.17g/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 28 01:02:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	277641	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	449946	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	354920	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	172122	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	92219	45.29	ug/l	-0.02
Spiked Amount			Recovery	=	90.58%	
35) Dibromofluoromethane	4.11	113	133687	40.01	ug/l	-0.01
Spiked Amount			Recovery	=	80.02%	
50) Toluene-d8	7.55	98	301935	31.43	ug/l	-0.01
Spiked Amount			Recovery	=	62.86%	
62) 4-Bromofluorobenzene	11.41	95	130462	33.57	ug/l	-0.01
Spiked Amount			Recovery	=	67.14%	

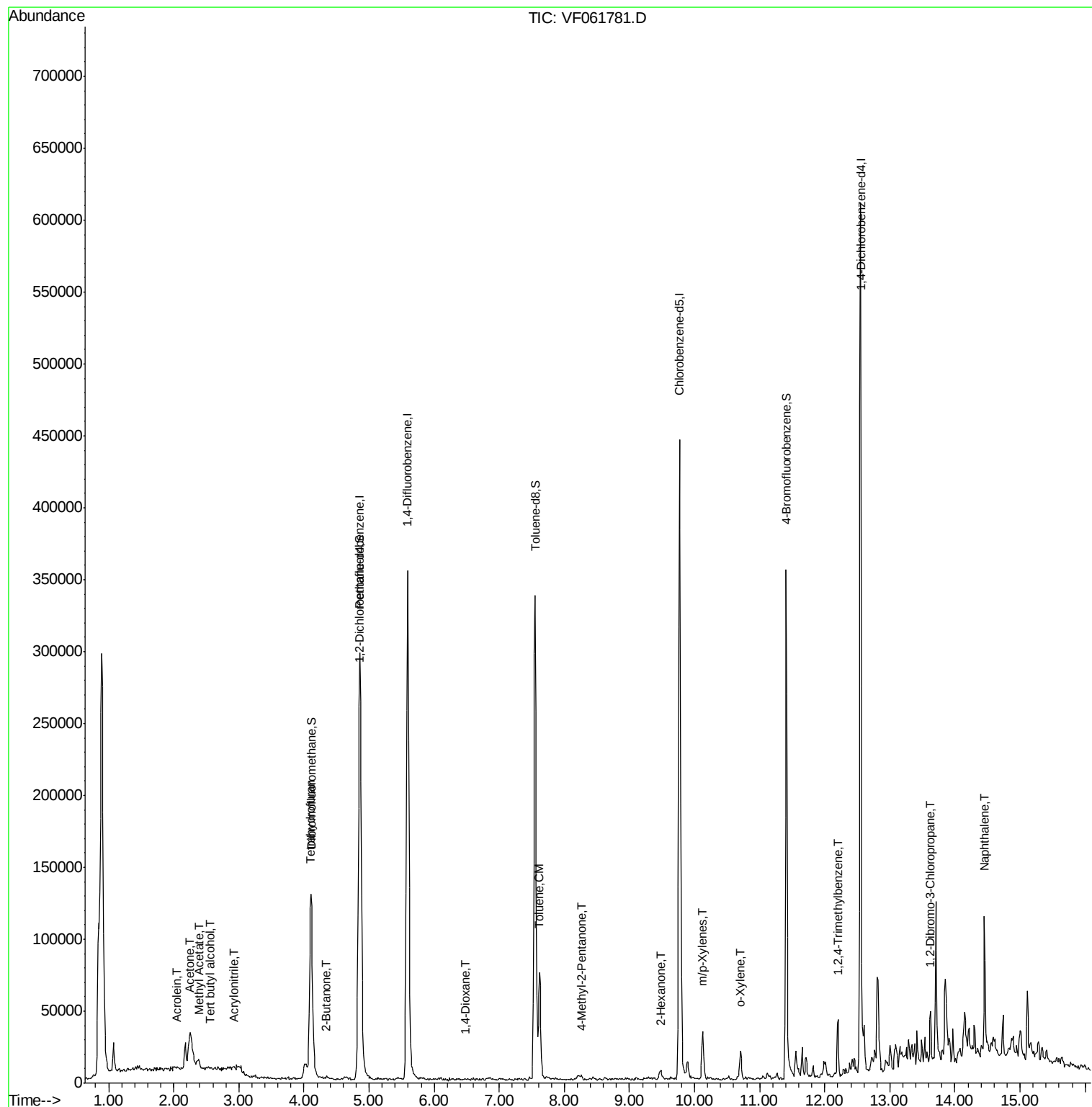
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	273	2.317	ug/l #	63
13) Acrolein	2.06	56	202	1.364	ug/l	86
15) Acrylonitrile	2.93	53	432	1.034	ug/l #	18
16) Acetone	2.23	43	17980	41.160	ug/l #	87
18) Methyl Acetate	2.38	43	6733	6.842	ug/l #	77
25) 2-Butanone	4.34	43	3763	3.944	ug/l	94
29) Tetrahydrofuran	4.09	42	2178	5.022	ug/l #	58
49) 1,4-Dioxane	6.47	88	70	5.049	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	2390	1.365	ug/l	99
52) Toluene	7.62	92	42778	6.050	ug/l	99
59) 2-Hexanone	9.48	43	2838	2.312	ug/l	77
68) m/p-Xylenes	10.12	106	13337	2.910	ug/l	95
69) o-Xylene	10.71	106	5606	1.146	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	17625	1.811	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	13.61	75	1297	3.726	ug/l #	1
95) Naphthalene	14.45	128	11942	1.696	ug/l #	88

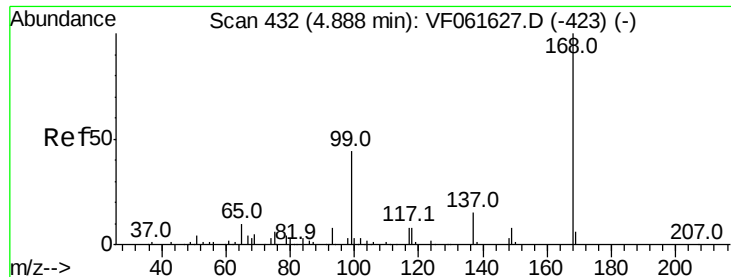
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022719\
Data File : VF061781.D
Acq On : 27 Feb 2019 22:18
Operator : VA/AP
Sample : K1358-05
Misc : 10.17g/5mL/MSVOA-F/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Feb 28 01:02:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

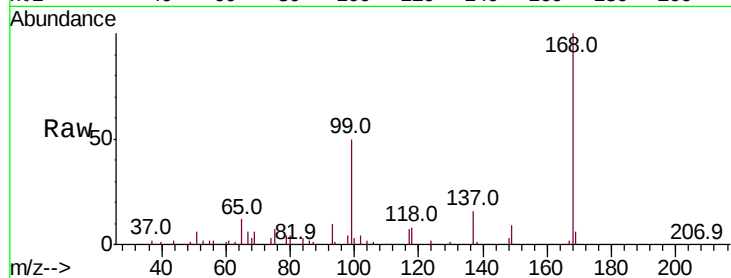
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 277641

Ion Ratio Lower Upper

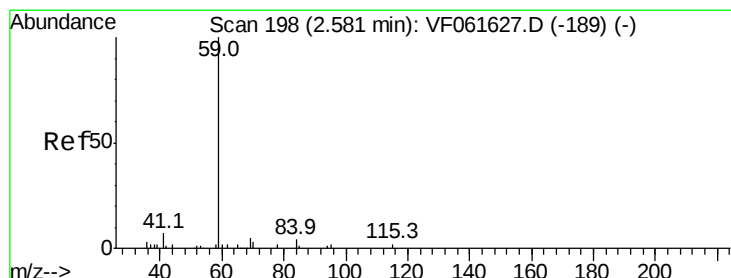
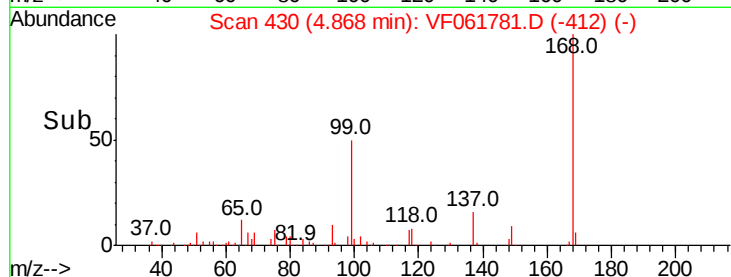
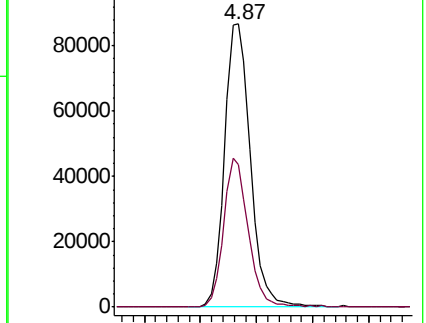
168 100

99 50.3 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 2.317 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061781.D

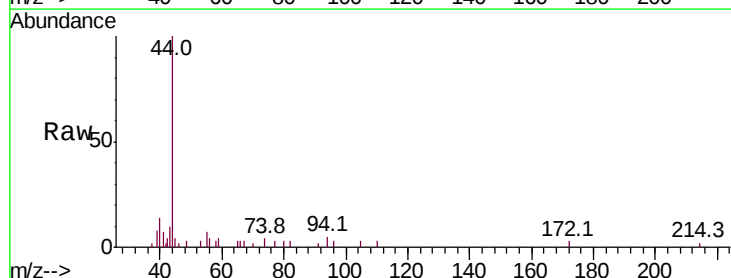
Acq: 27 Feb 2019 22:18

Tgt Ion: 59 Resp: 273

Ion Ratio Lower Upper

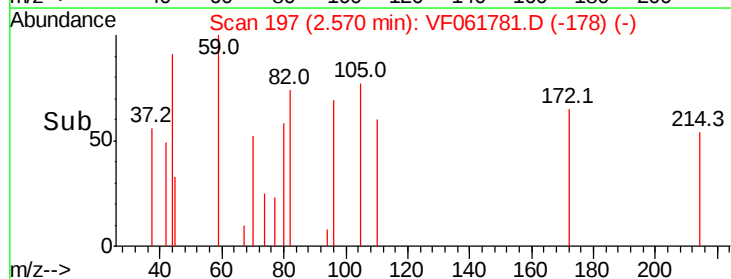
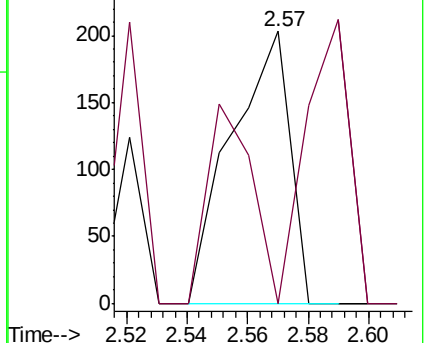
59 100

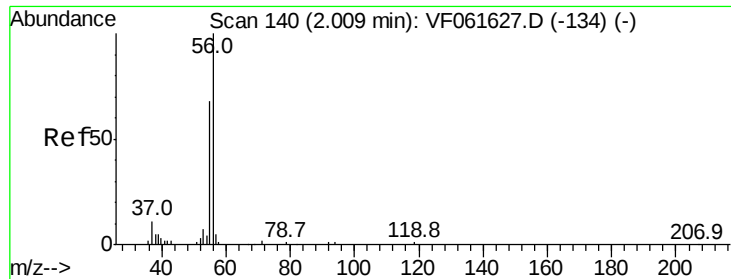
57 0.0 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 1.364 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.05 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

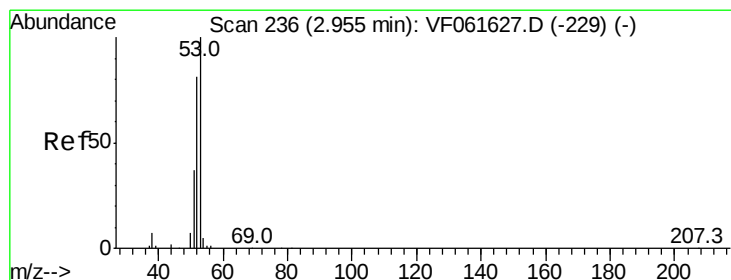
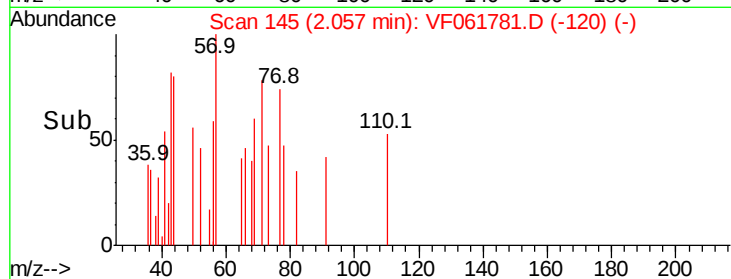
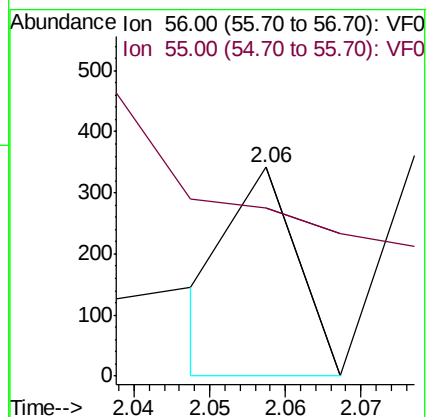
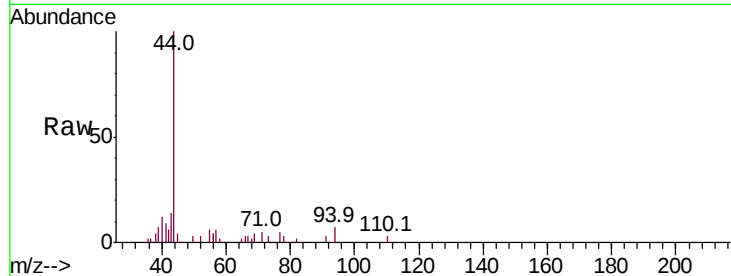
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 202

Ion Ratio Lower Upper

56 100

55 80.4 55.0 82.6



#15

Acrylonitrile

Concen: 1.034 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

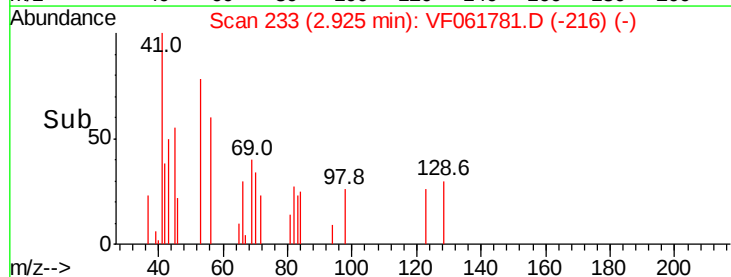
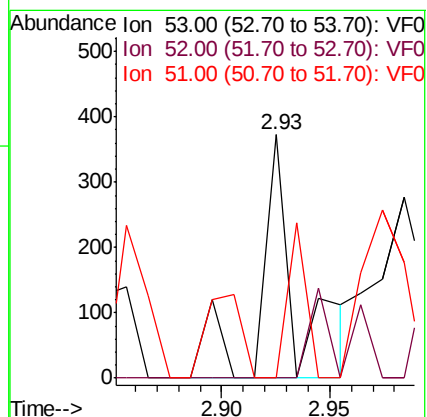
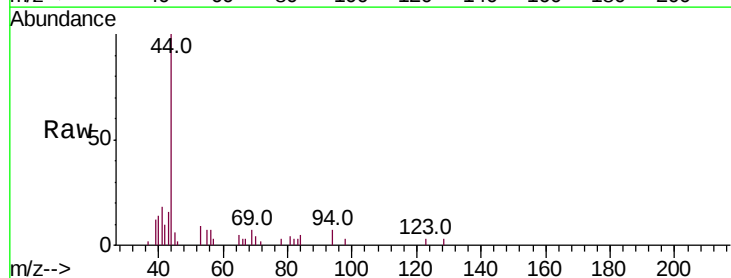
Tgt Ion: 53 Resp: 432

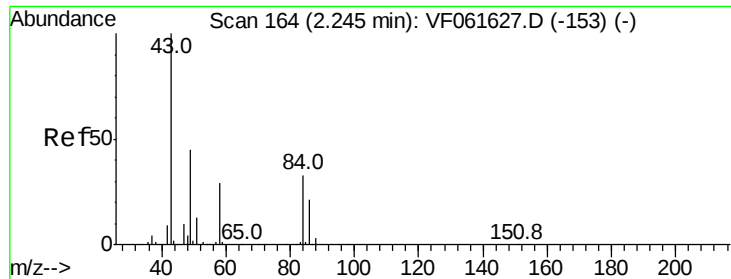
Ion Ratio Lower Upper

53 100

52 0.0 64.6 97.0#

51 0.0 29.8 44.8#





#16

Acetone

Concen: 41.160 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

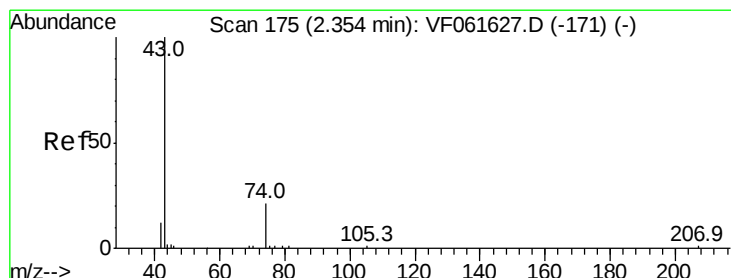
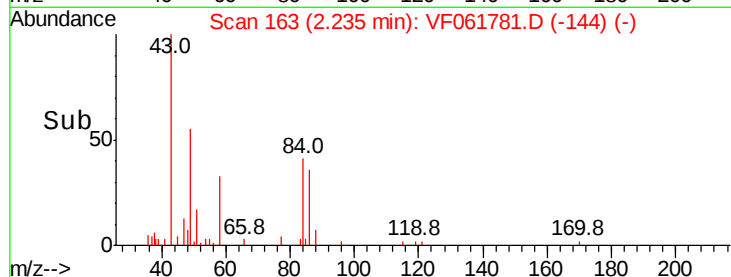
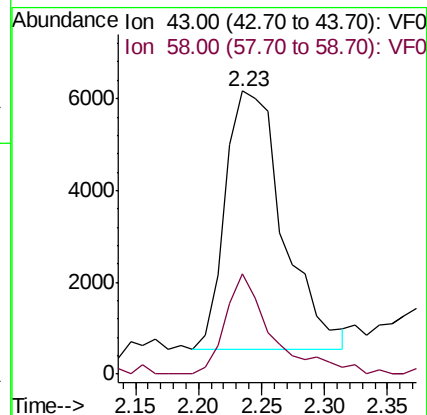
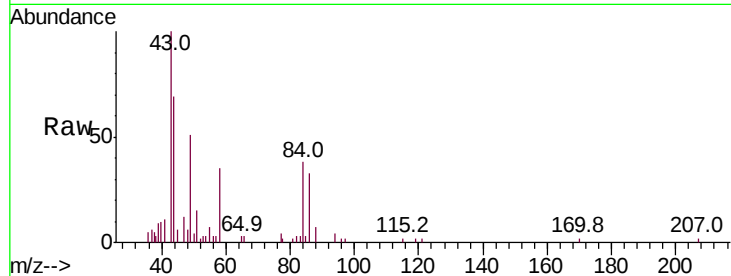
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 17980

Ion Ratio Lower Upper

43 100

58 35.3 22.9 34.3#



#18

Methyl Acetate

Concen: 6.842 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF061781.D

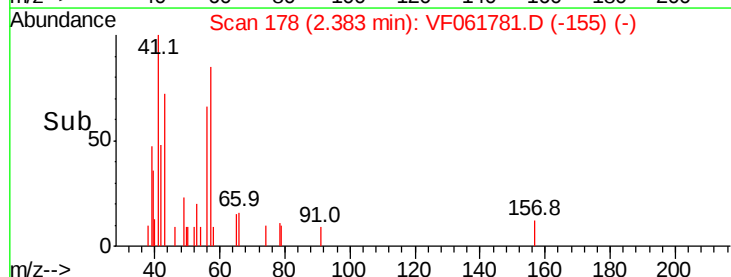
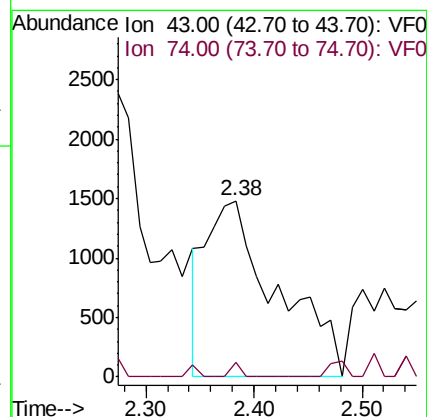
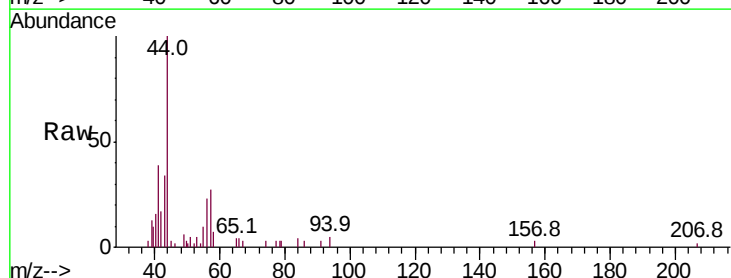
Acq: 27 Feb 2019 22:18

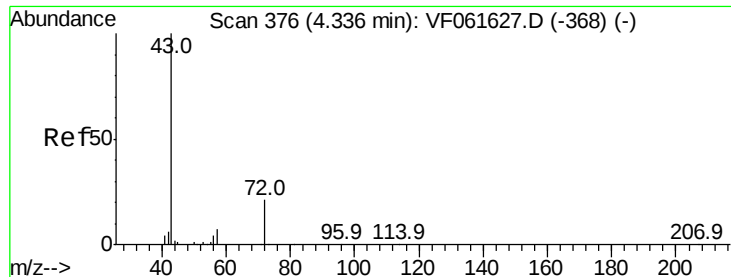
Tgt Ion: 43 Resp: 6733

Ion Ratio Lower Upper

43 100

74 8.0 14.6 21.8#





#25

2-Butanone

Concen: 3.944 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

Instrument :

MSVOA_F

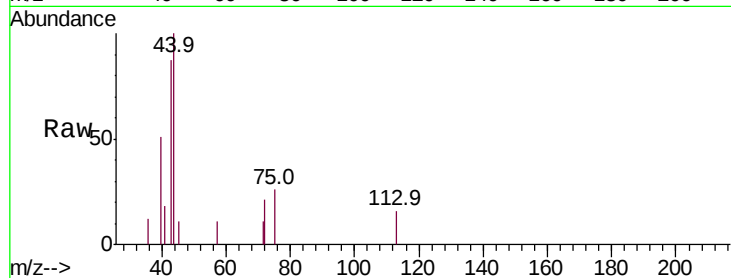
ClientSampled :

Tot Ion: 43 Resp: 3763

Ion Ratio Lower Upper

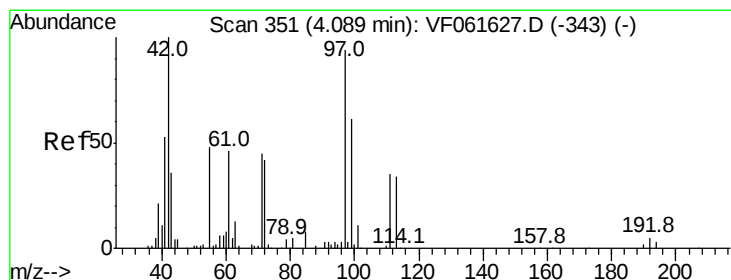
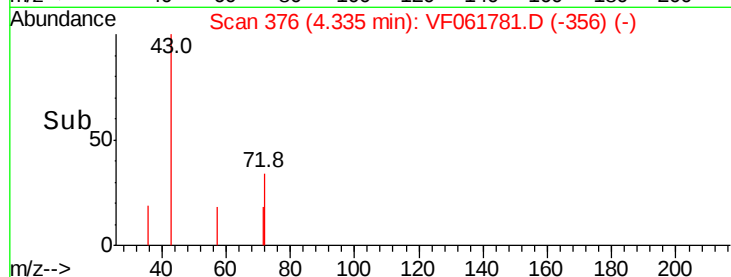
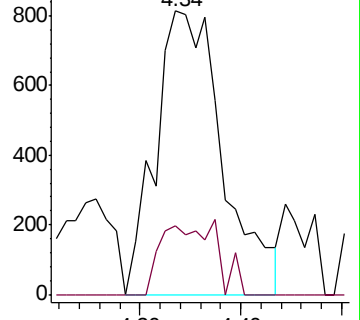
43 100

72 24.1 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 5.022 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

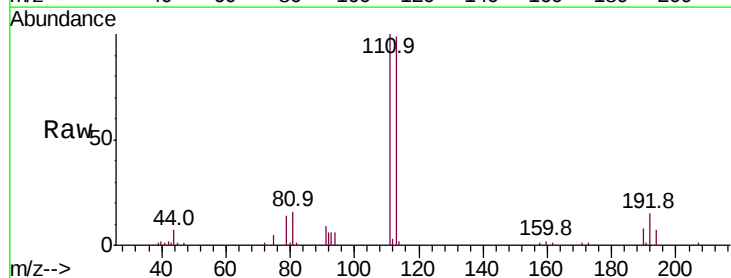
Tgt Ion: 42 Resp: 2178

Ion Ratio Lower Upper

42 100

72 8.6 35.2 52.8#

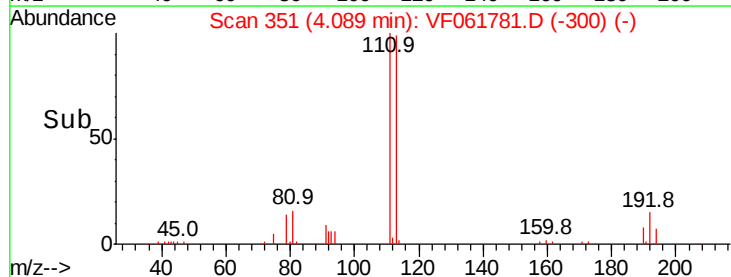
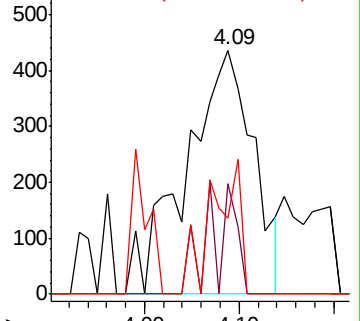
71 23.4 32.9 49.3#

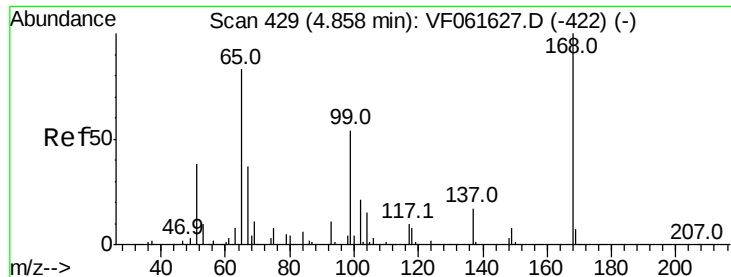


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

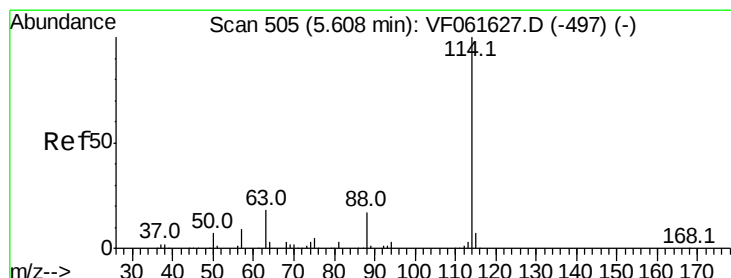
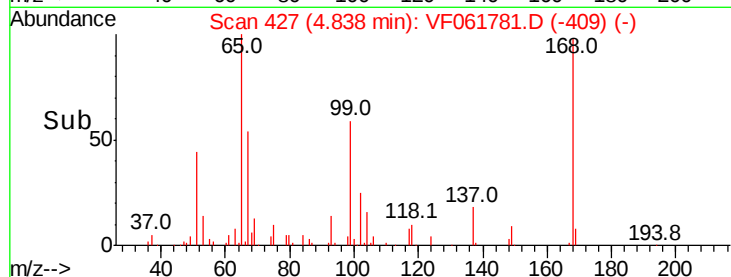
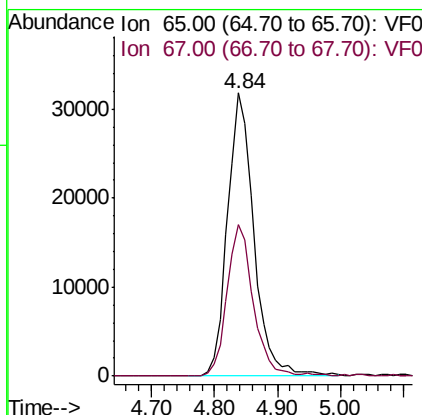
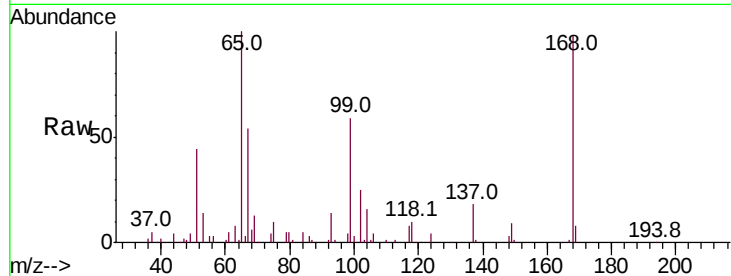




#33
 1,2-Dichloroethane-d4
 Concen: 45.295 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.02 min
 Lab File: VF061781.D
 Acq: 27 Feb 2019 22:18

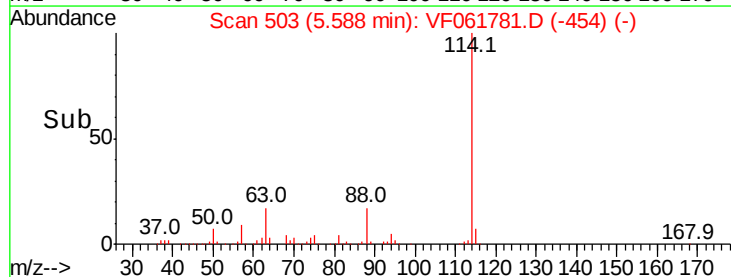
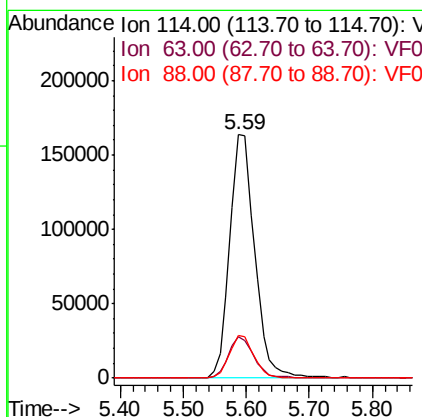
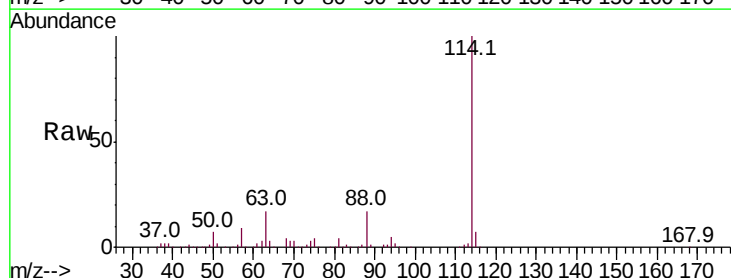
Instrument :
 MSVOA_F
 ClientSampleId :

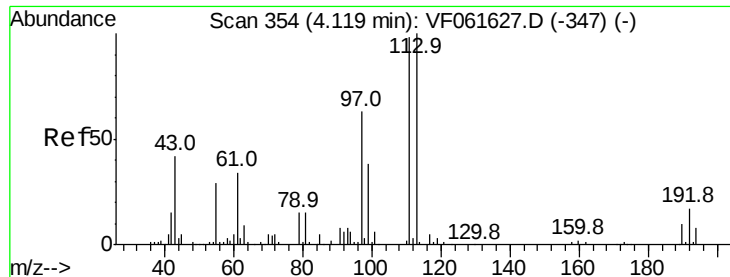
Tot Ion: 65 Resp: 92219
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061781.D
 Acq: 27 Feb 2019 22:18

Tgt Ion: 114 Resp: 449946
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 36.6
 88 17.3 0.0 34.4





#35

Dibromofluoromethane

Concen: 40.010 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

Instrument :
MSVOA_F
ClientSampleId :

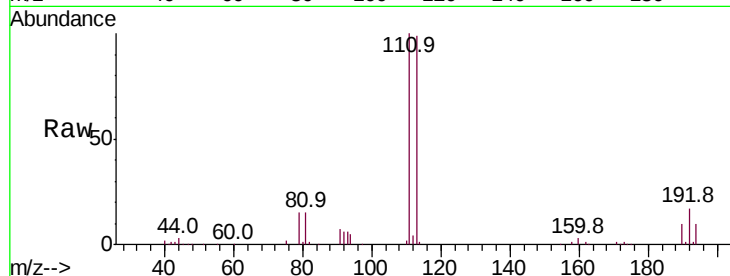
Tot Ion:113 Resp: 133687

Ion Ratio Lower Upper

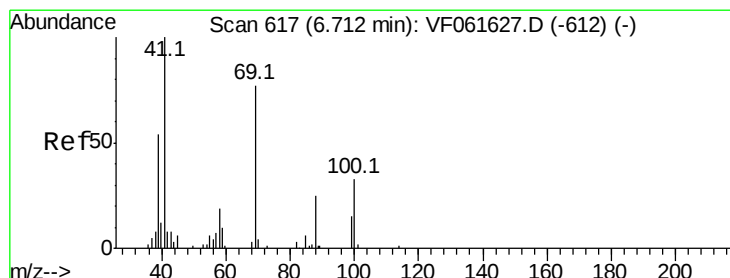
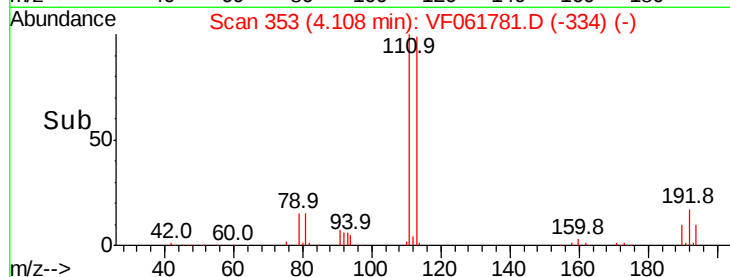
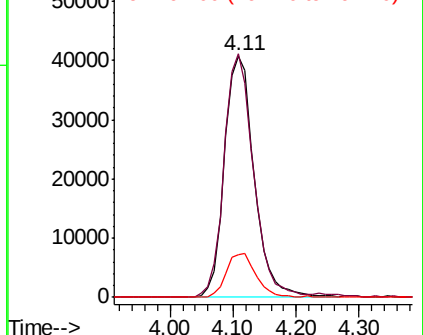
113 100

111 100.8 78.8 118.2

192 17.6 13.4 20.0



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



#49

1,4-Dioxane

Concen: 5.049 ug/l

RT: 6.47 min Scan# 592

Delta R.T. -0.25 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

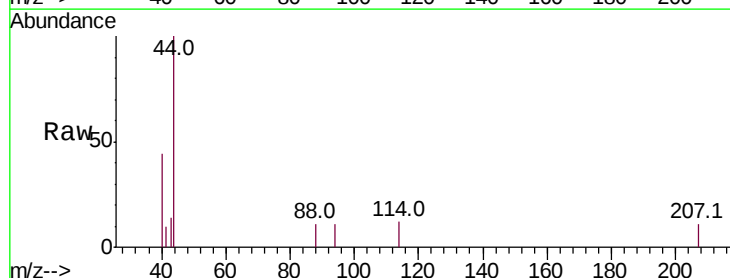
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

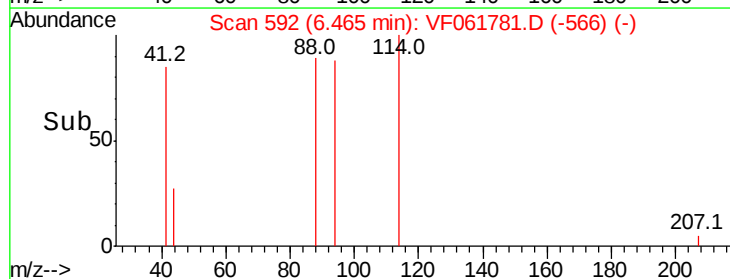
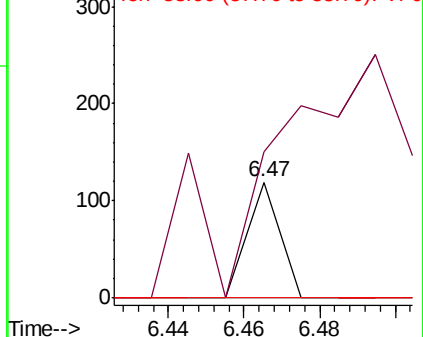
88 100

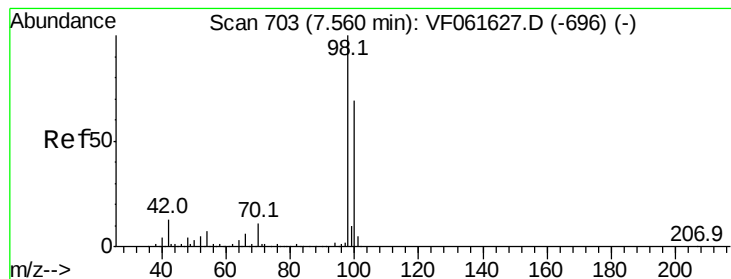
43 126.9 32.3 48.5#

58 0.0 59.4 89.2#



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: 31.434 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

Instrument :

MSVOA_F

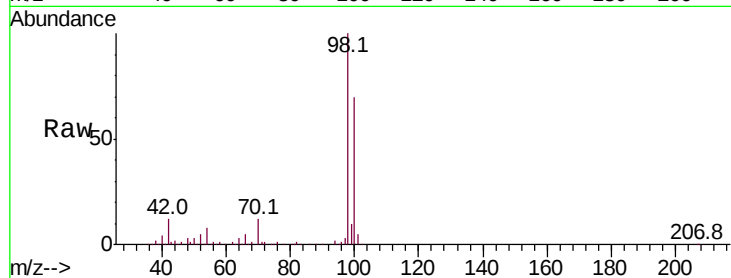
ClientSampled :

Tot Ion: 98 Resp: 301935

Ion Ratio Lower Upper

98 100

100 70.3 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

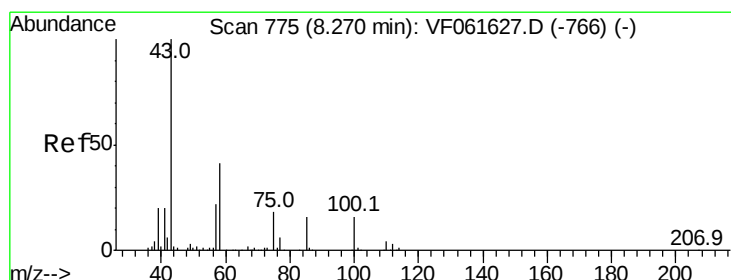
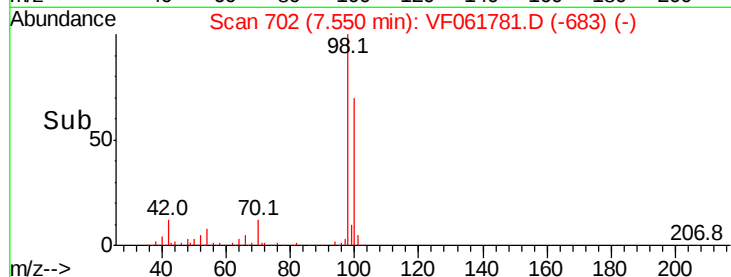
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.365 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061781.D

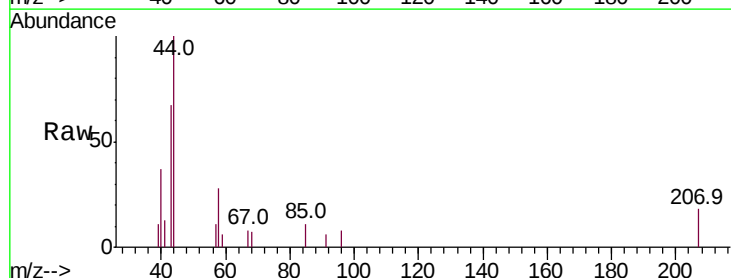
Acq: 27 Feb 2019 22:18

Tgt Ion: 43 Resp: 2390

Ion Ratio Lower Upper

43 100

58 42.1 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

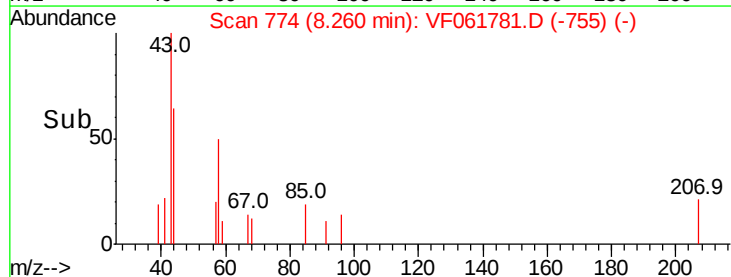
8.26

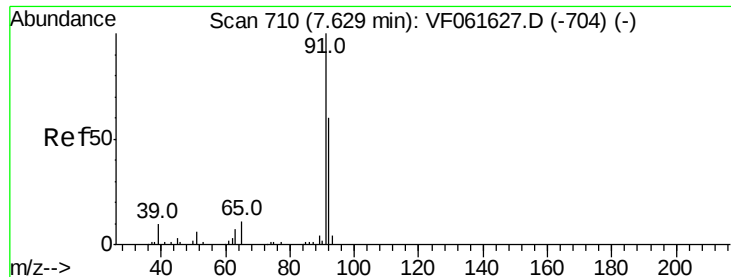
1000

500

0

Time-->





#52

Toluene

Concen: 6.050 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

Instrument :

MSVOA_F

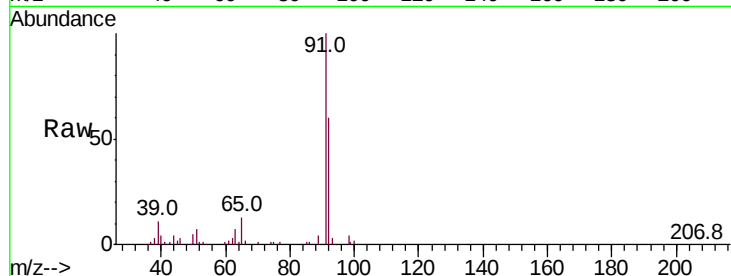
ClientSampleId :

Tot Ion: 92 Resp: 42778

Ion Ratio Lower Upper

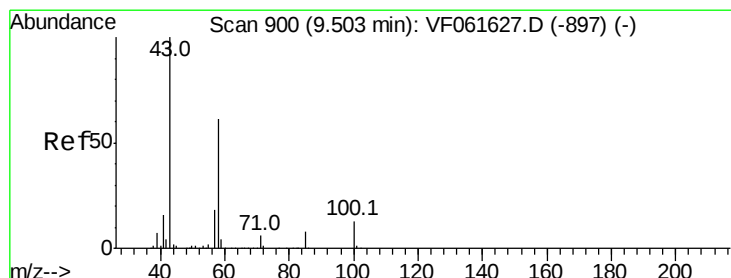
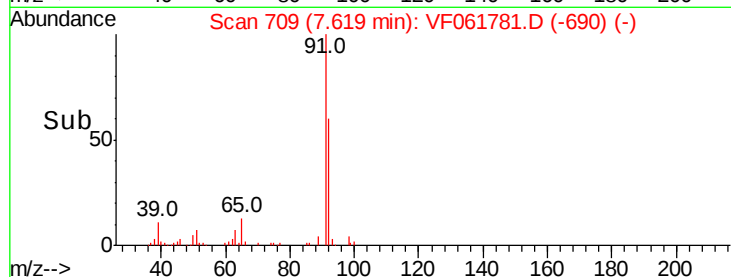
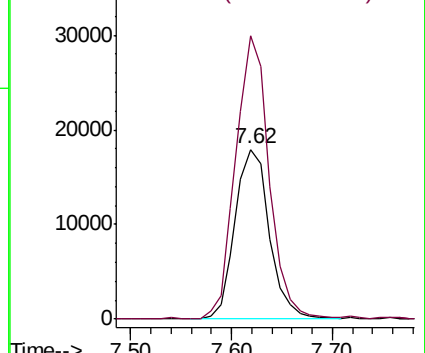
92 100

91 166.6 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 2.312 ug/l

RT: 9.48 min Scan# 898

Delta R.T. -0.02 min

Lab File: VF061781.D

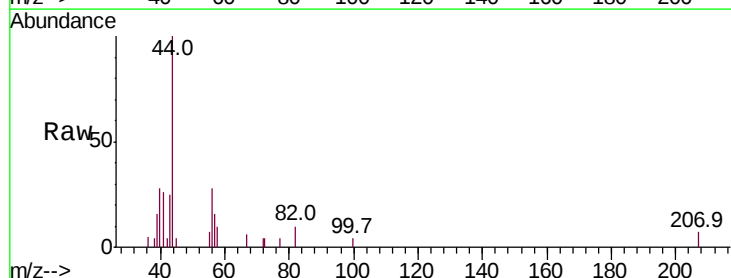
Acq: 27 Feb 2019 22:18

Tgt Ion: 43 Resp: 2838

Ion Ratio Lower Upper

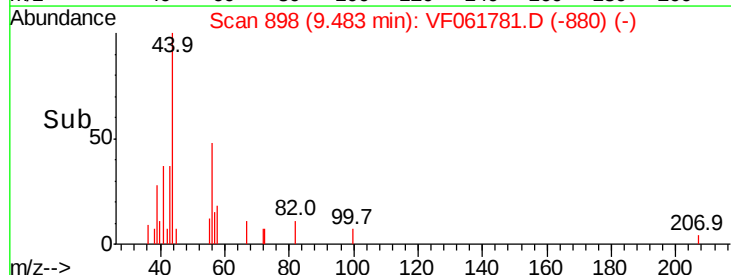
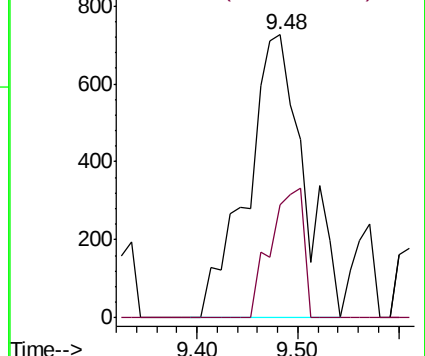
43 100

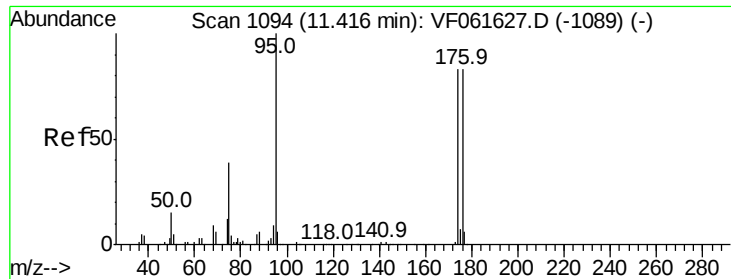
58 39.9 28.5 85.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 33.568 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

Instrument :

MSVOA_F

ClientSampleId :

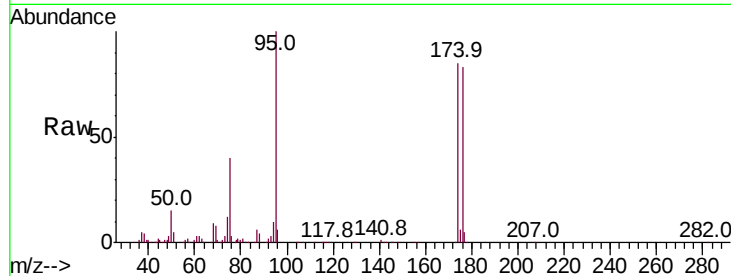
Tot Ion: 95 Resp: 130462

Ion Ratio Lower Upper

95 100

174 85.4 0.0 165.8

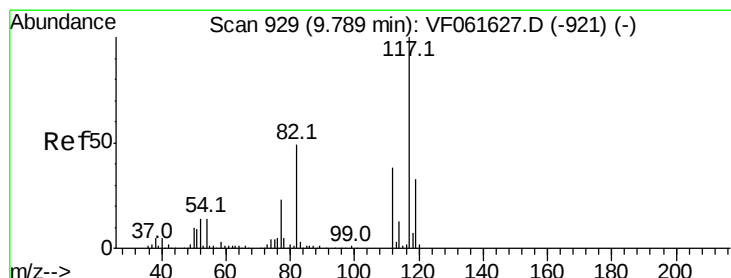
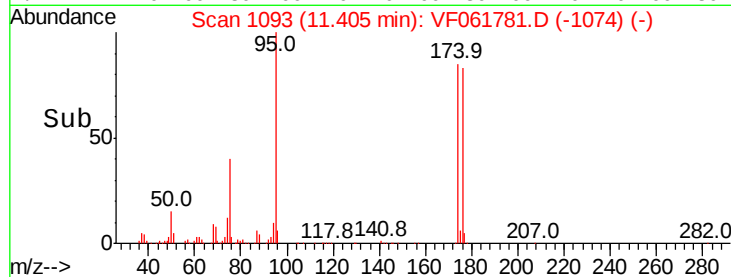
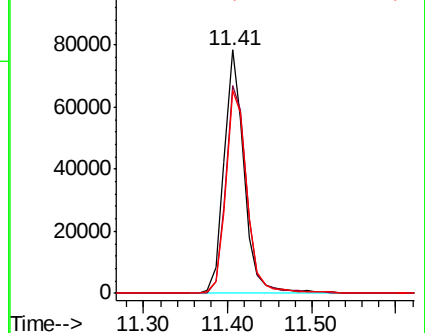
176 83.0 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.02 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

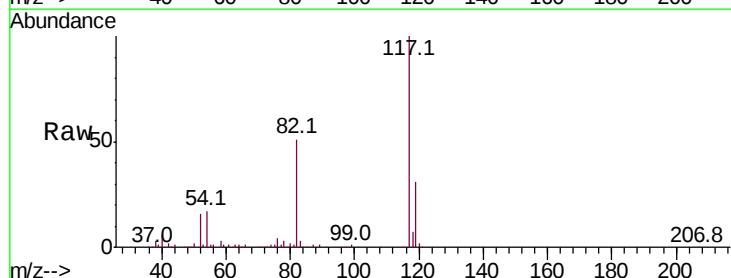
Tgt Ion: 117 Resp: 354920

Ion Ratio Lower Upper

117 100

82 51.2 39.3 58.9

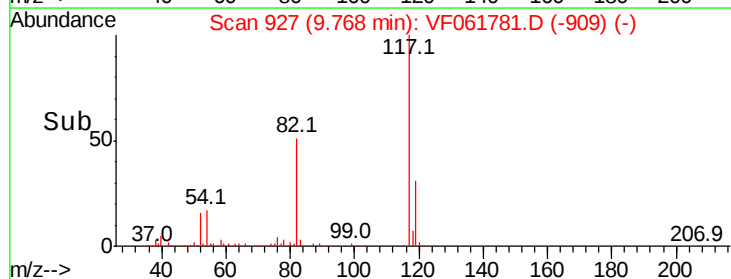
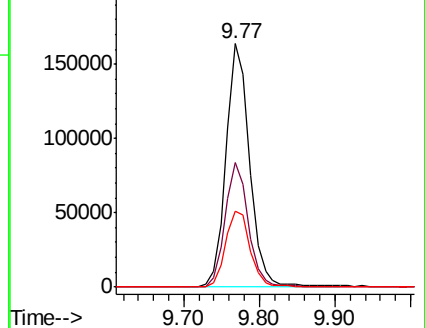
119 31.0 26.6 40.0

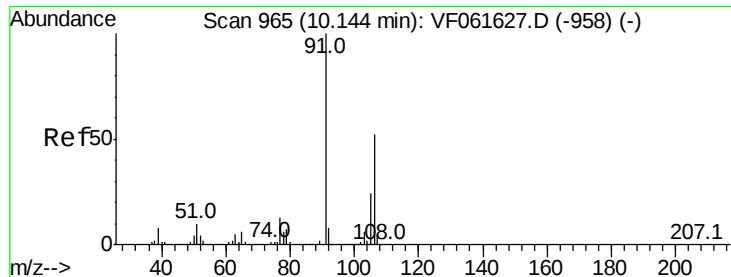


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

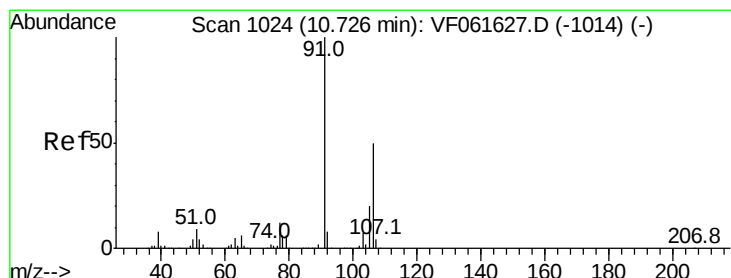
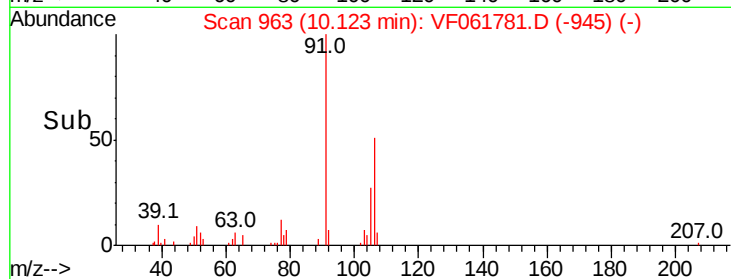
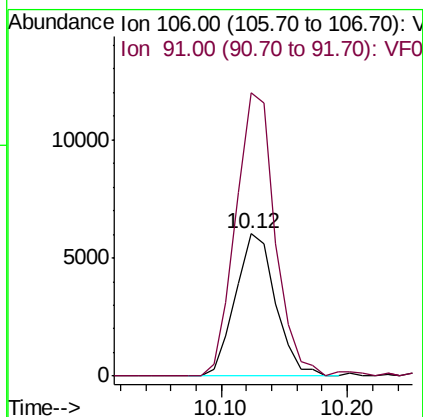
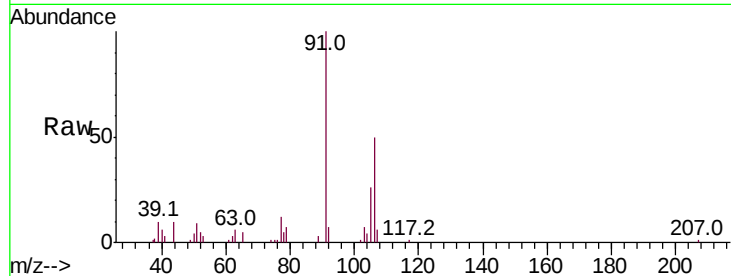




#68
m/p-Xylenes
Concen: 2.910 ug/l
RT: 10.12 min Scan# 963
Delta R.T. -0.02 min
Lab File: VF061781.D
Acq: 27 Feb 2019 22:18

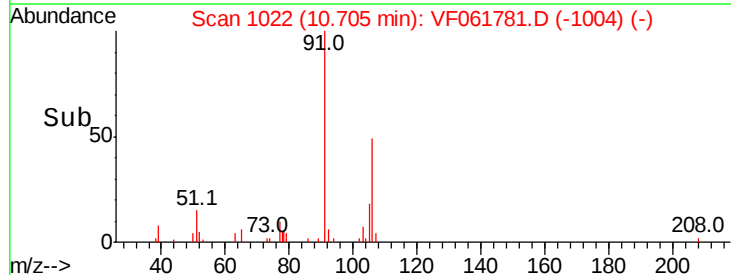
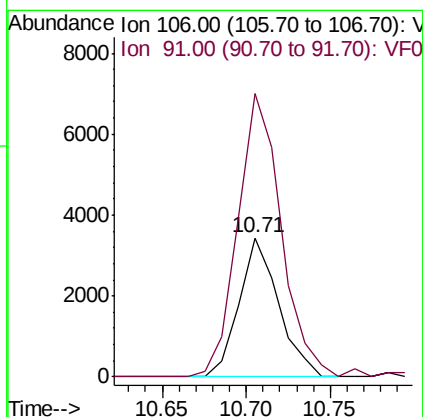
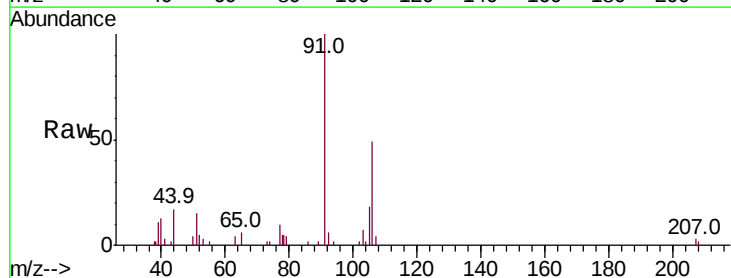
Instrument :
MSVOA_F
ClientSampleId :

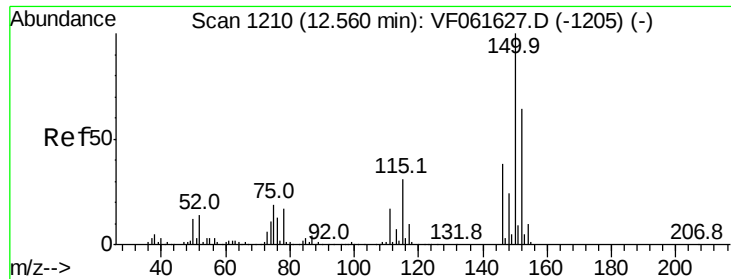
Tot Ion:106 Resp: 13337
Ion Ratio Lower Upper
106 100
91 199.0 153.0 229.6



#69
o-Xylene
Concen: 1.146 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF061781.D
Acq: 27 Feb 2019 22:18

Tgt Ion:106 Resp: 5606
Ion Ratio Lower Upper
106 100
91 204.0 100.1 300.1



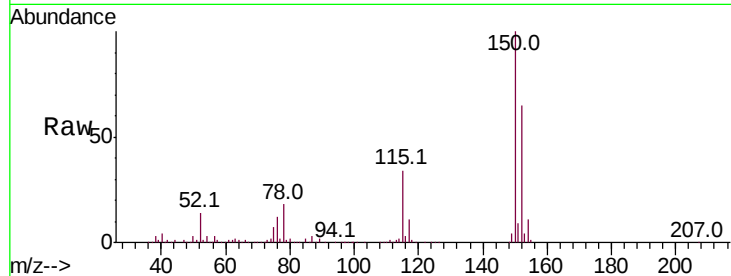


#72

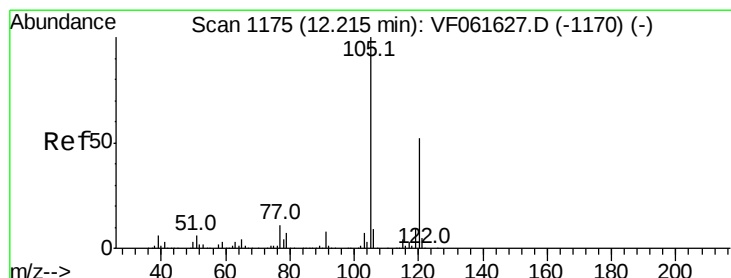
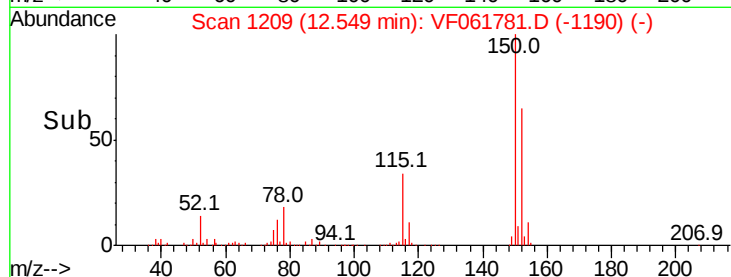
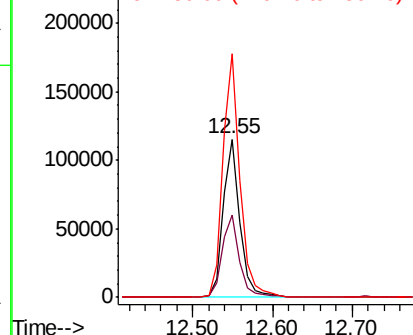
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061781.D
Acq: 27 Feb 2019 22:18

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 172122
Ion Ratio Lower Upper
152 100
115 51.7 24.3 72.8
150 153.9 0.0 312.0



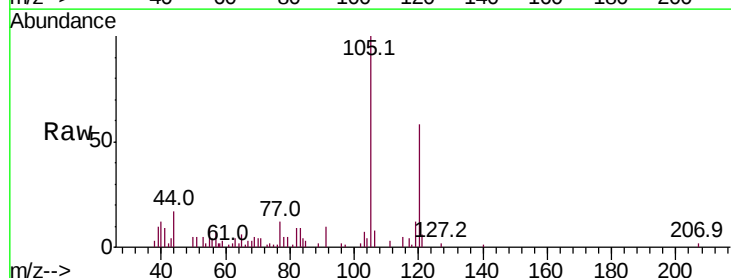
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



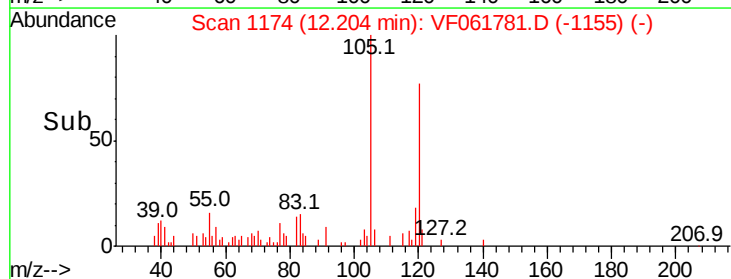
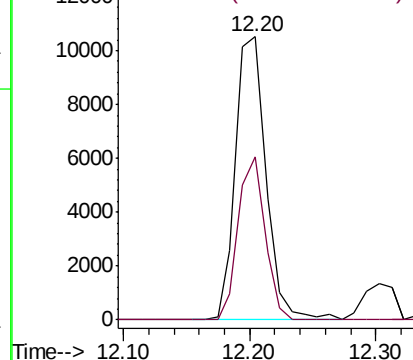
#84

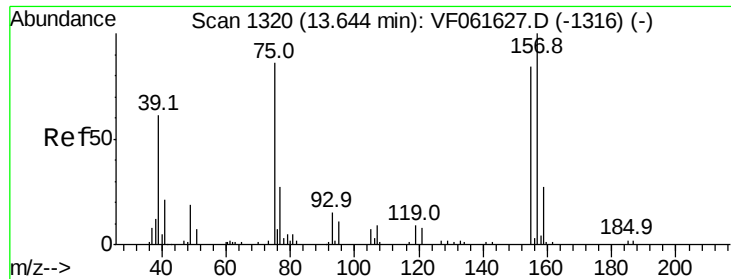
1,2,4-Trimethylbenzene
Concen: 1.811 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF061781.D
Acq: 27 Feb 2019 22:18

Tgt Ion:105 Resp: 17625
Ion Ratio Lower Upper
105 100
120 57.8 26.1 78.3



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





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.726 ug/l

RT: 13.61 min Scan# 1317

Delta R.T. -0.03 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

Instrument :

MSVOA_F

ClientSampleId :

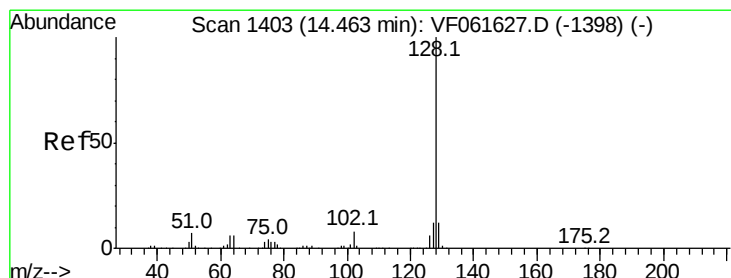
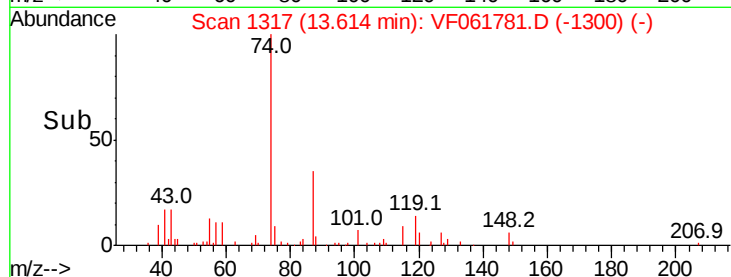
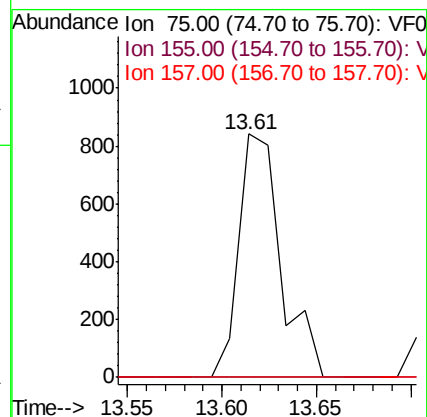
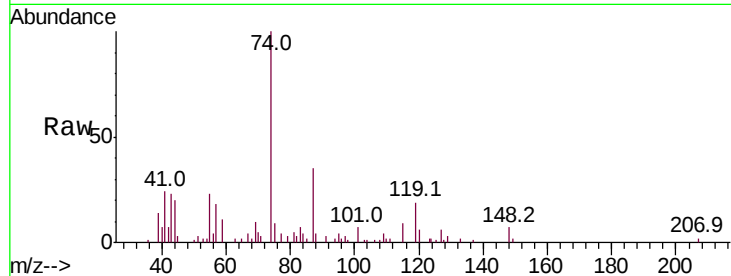
Tot Ion: 75 Resp: 1297

Ion Ratio Lower Upper

75 100

155 0.0 48.9 146.8#

157 0.0 58.3 174.8#



#95

Naphthalene

Concen: 1.696 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061781.D

Acq: 27 Feb 2019 22:18

Tgt Ion: 128 Resp: 11942

Ion Ratio Lower Upper

128 100

127 20.6 9.8 14.6#

129 12.5 9.4 14.2

