

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080718\
 Data File : VF059911.D
 Acq On : 7 Aug 2018 9:48
 Operator : VA/AP
 Sample : J4297-02
 Misc : 6.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2

Quant Time: Aug 08 07:53:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	182225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	263066	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	218355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	93644	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	131169	39.93	ug/l	0.00
Spiked Amount 50.000			Recovery =	79.86%		
35) Dibromofluoromethane	4.30	113	109848	41.97	ug/l	0.00
Spiked Amount 50.000			Recovery =	83.94%		
50) Toluene-d8	7.72	98	208903	37.51	ug/l	0.00
Spiked Amount 50.000			Recovery =	75.02%		
62) 4-Bromofluorobenzene	11.52	95	183144	58.52	ug/l	0.00
Spiked Amount 50.000			Recovery =	117.04%		

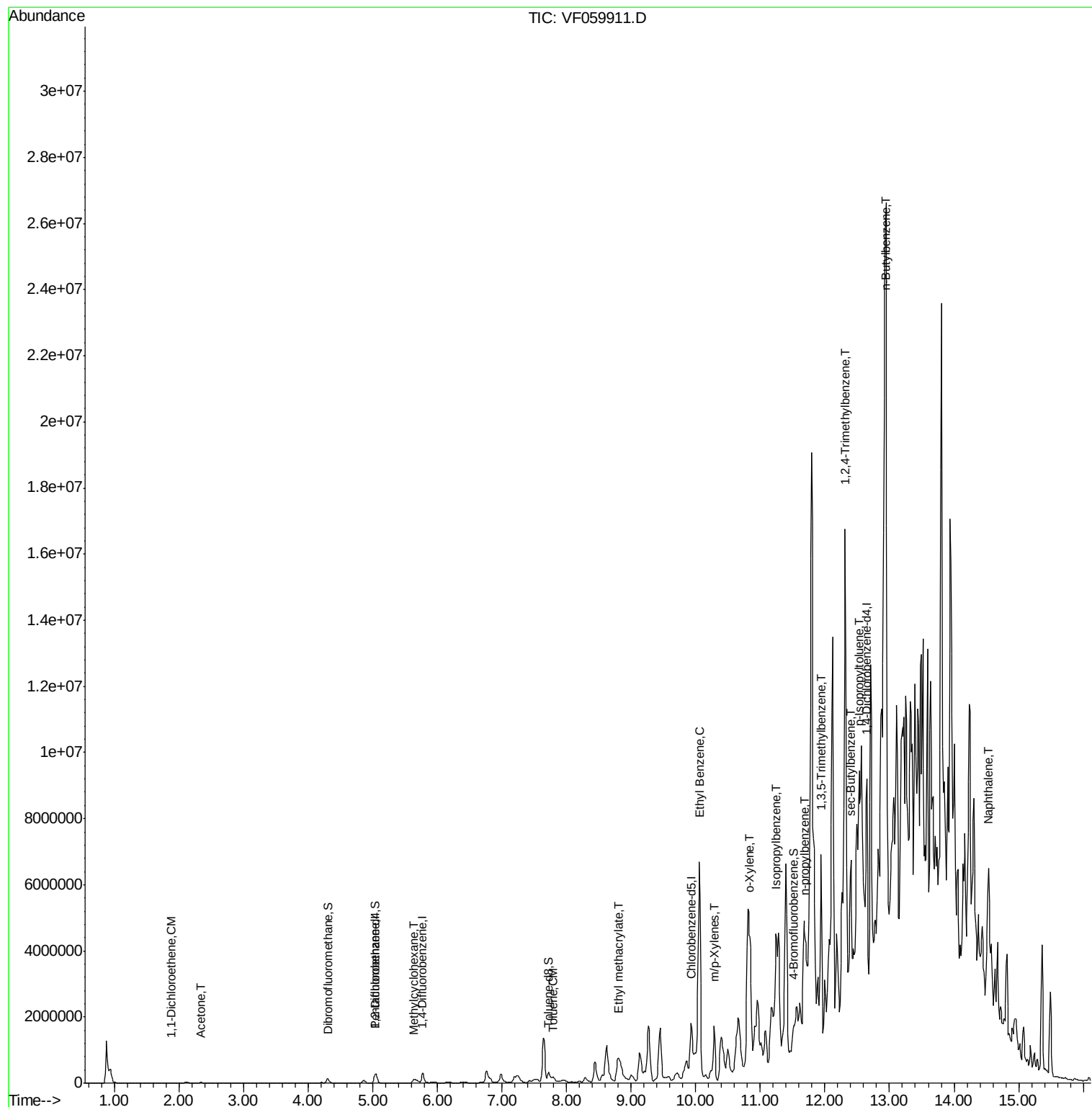
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	1.88	96	2327	1.43	ug/l #	67
16) Acetone	2.34	43	20282	33.44	ug/l	97
39) Methylcyclohexane	5.64	83	85366	37.41	ug/l	97
52) Toluene	7.79	92	20283	5.28	ug/l	83
56) Ethyl methacrylate	8.81	69	601665	373.33	ug/l #	77
67) Ethyl Benzene	10.06	91	667490	86.45	ug/l	98
68) m/p-Xylenes	10.28	106	483580	181.17	ug/l	95
69) o-Xylene	10.85	106	608293	215.13	ug/l	95
73) Isopropylbenzene	11.24	105	596023	102.19	ug/l	98
78) n-propylbenzene	11.70	91	1409498	204.62	ug/l	98
80) 1,3,5-Trimethylbenzene	11.94	105	2614874	482.79	ug/l	93
84) 1,2,4-Trimethylbenzene	12.31	105	4017082	721.16	ug/l	85
85) sec-Butylbenzene	12.41	105	911785	130.16	ug/l #	77
86) p-Isopropyltoluene	12.53	119	2136736	362.91	ug/l	95
89) n-Butylbenzene	12.94	91	1365165	243.29	ug/l #	56
95) Naphthalene	14.54	128	1047512	275.53	ug/l #	87

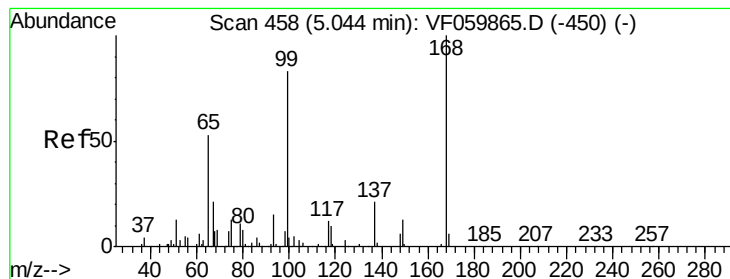
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 04 07:08:36 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampleId :

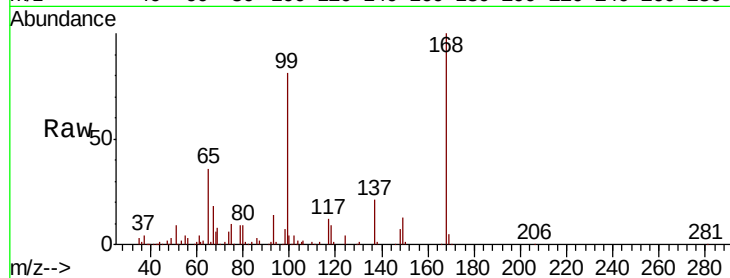
TP-2

Tot Ion:168 Resp: 182225

Ion Ratio Lower Upper

168 100

99 81.1 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

60000

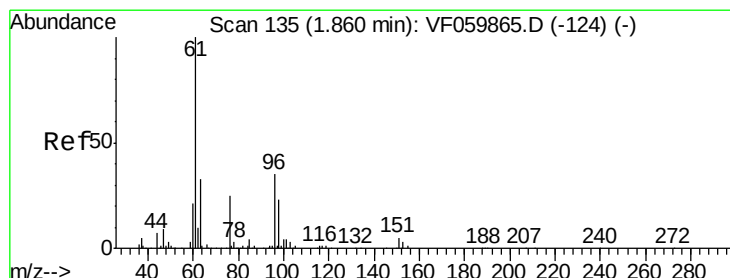
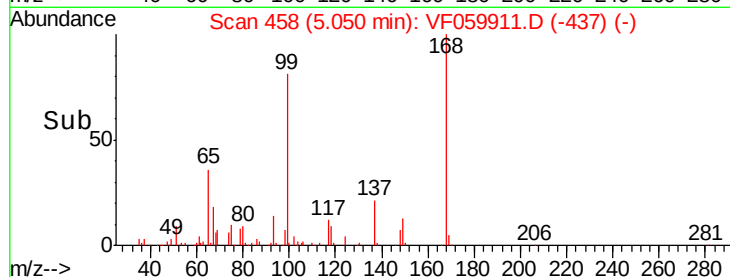
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#12

1,1-Dichloroethene

Concen: 1.43 ug/l

RT: 1.88 min Scan# 136

Delta R.T. 0.02 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

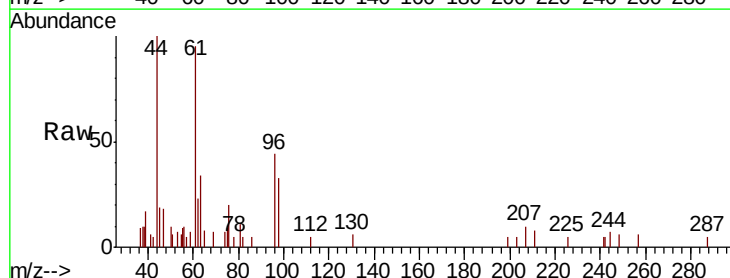
Tgt Ion: 96 Resp: 2327

Ion Ratio Lower Upper

96 100

61 215.3 230.2 345.2#

98 75.5 52.7 79.1



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

3000

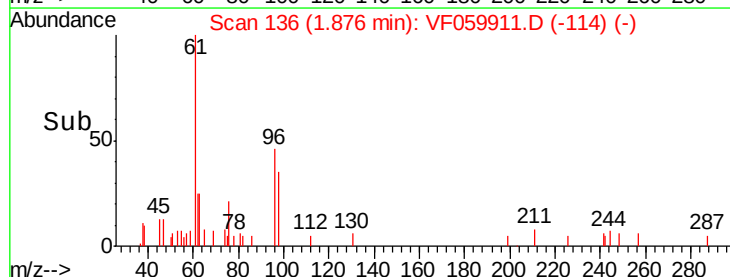
2000

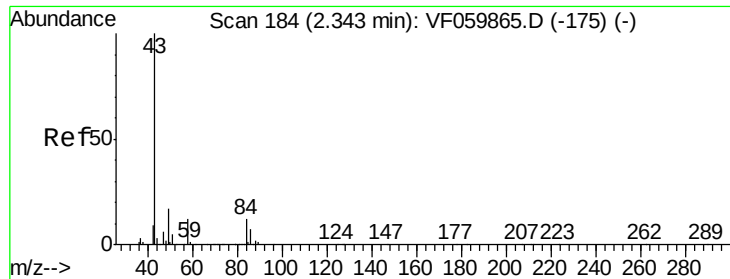
1000

0

1.80 1.85 1.90 1.95

Time-->





#16

Acetone

Concen: 33.44 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampleId :

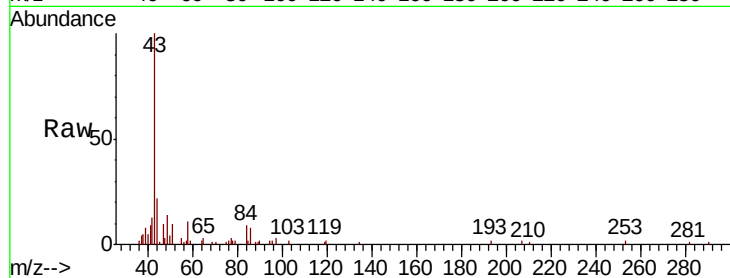
TP-2

Tot Ion: 43 Resp: 20282

Ion Ratio Lower Upper

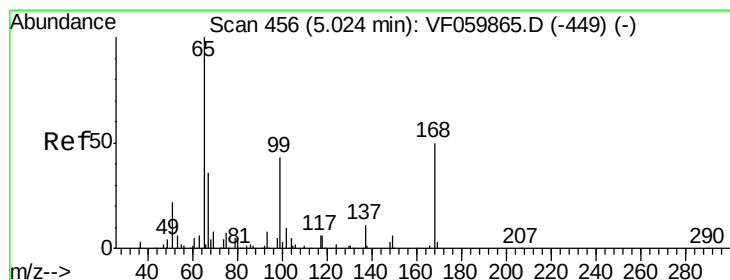
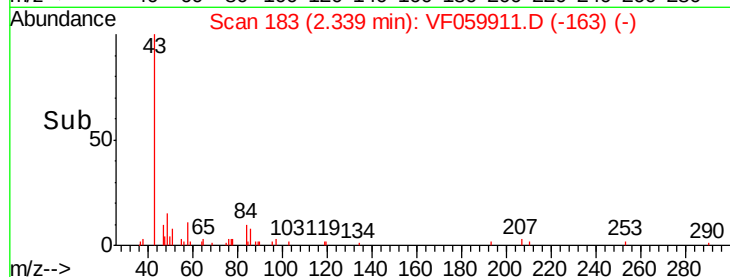
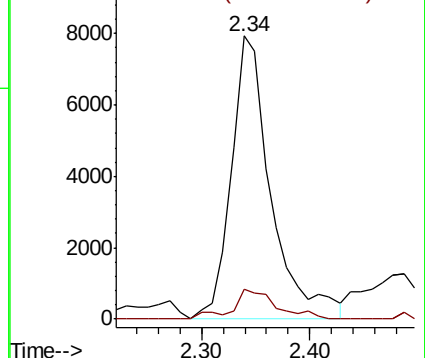
43 100

58 10.5 9.4 14.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 39.93 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF059911.D

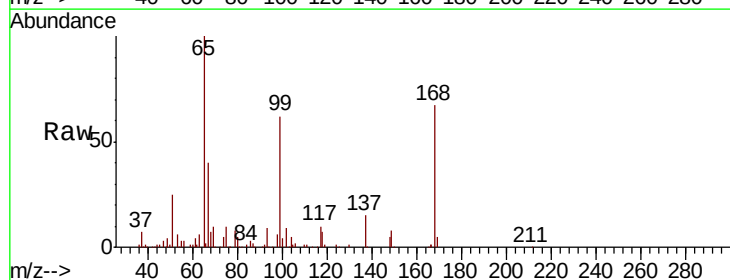
Acq: 7 Aug 2018 9:48

Tgt Ion: 65 Resp: 131169

Ion Ratio Lower Upper

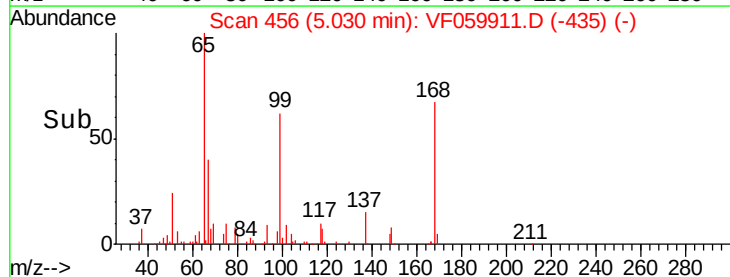
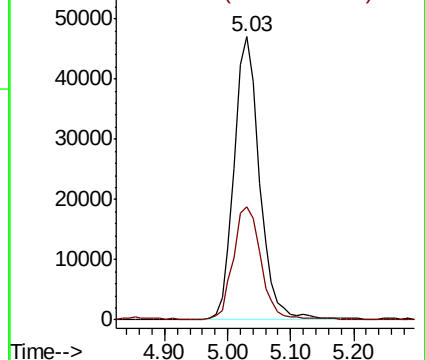
65 100

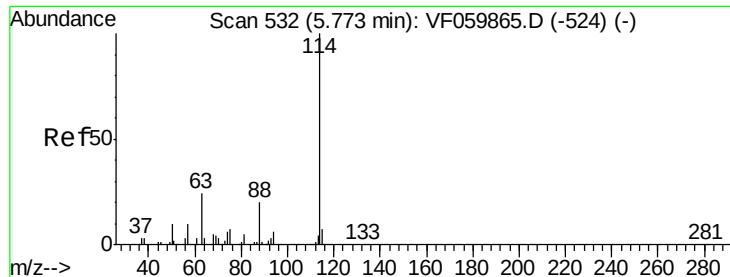
67 40.0 0.0 77.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

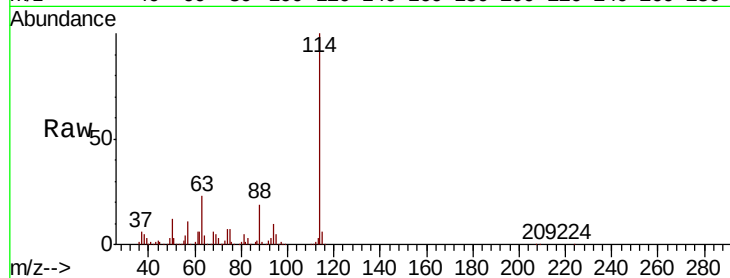




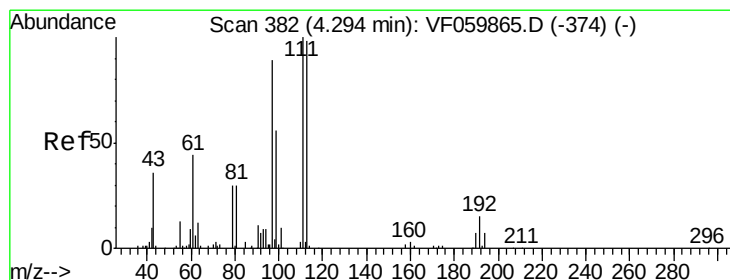
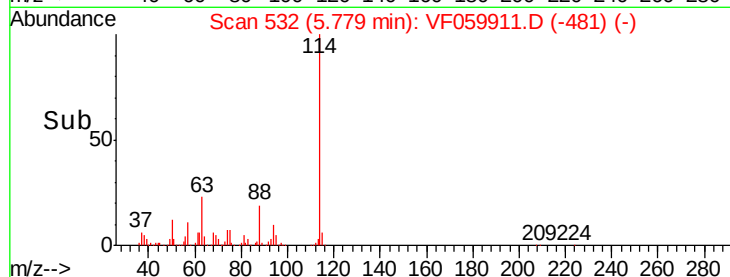
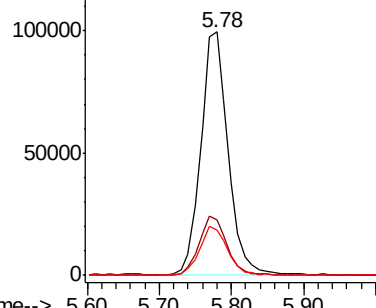
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF059911.D
 Acq: 7 Aug 2018 9:48

Instrument :
 MSVOA_F
 ClientSampled :
 TP-2

Tot Ion:114 Resp: 263066
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 48.0
 88 18.5 0.0 39.4

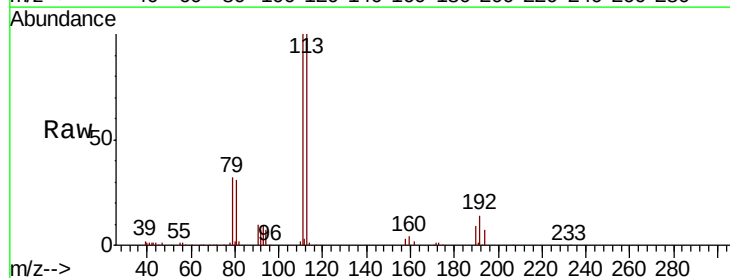


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

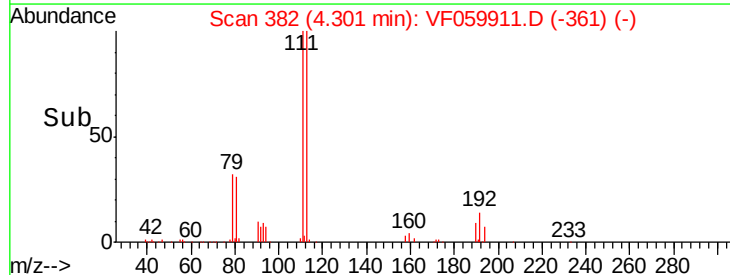
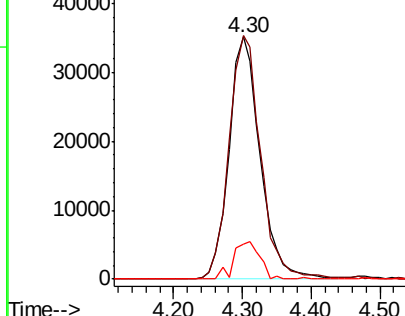


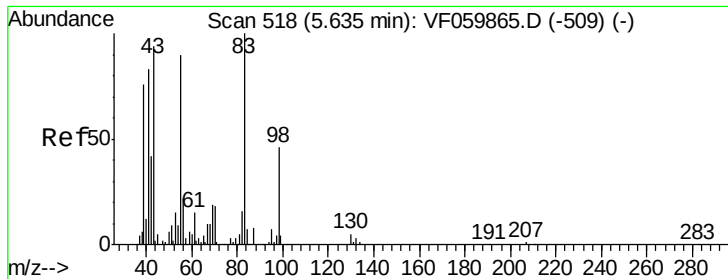
#35
 Dibromofluoromethane
 Concen: 41.97 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VF059911.D
 Acq: 7 Aug 2018 9:48

Tgt Ion:113 Resp: 109848
 Ion Ratio Lower Upper
 113 100
 111 100.5 81.8 122.8
 192 14.6 12.4 18.6



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





#39

Methylcyclohexane

Concen: 37.41 ug/l

RT: 5.64 min Scan# 518

Delta R.T. 0.01 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampled :

TP-2

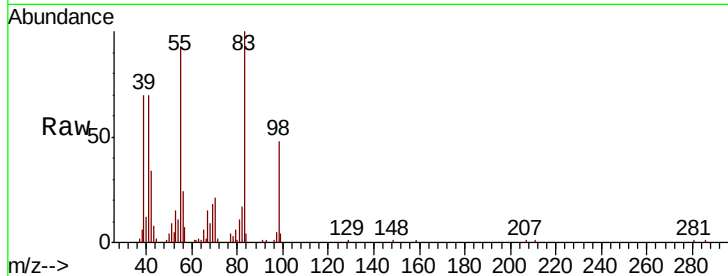
Tot Ion: 83 Resp: 85366

Ion Ratio Lower Upper

83 100

55 92.5 72.0 108.0

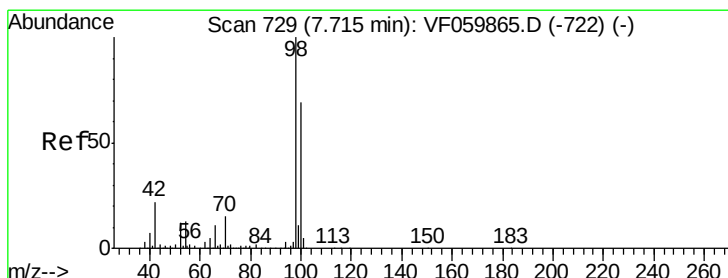
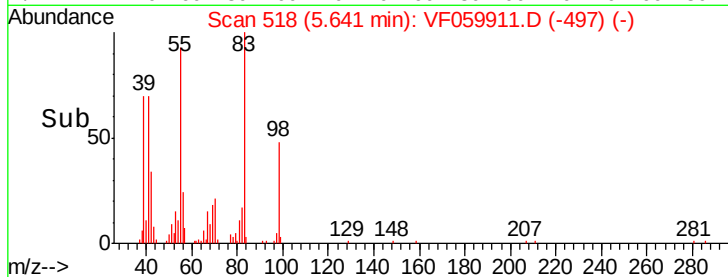
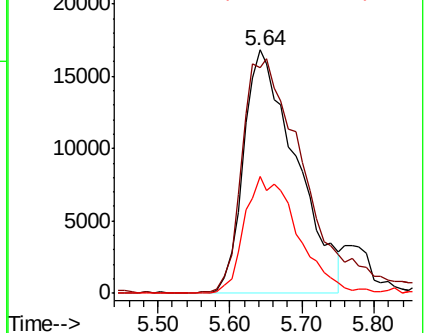
98 47.9 36.6 54.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#50

Toluene-d8

Concen: 37.51 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF059911.D

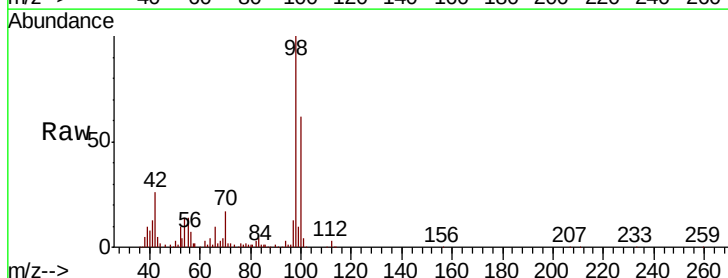
Acq: 7 Aug 2018 9:48

Tgt Ion: 98 Resp: 208903

Ion Ratio Lower Upper

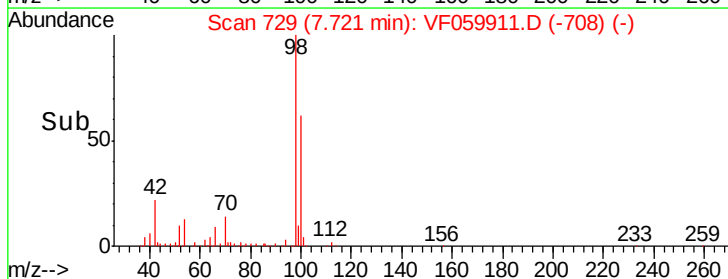
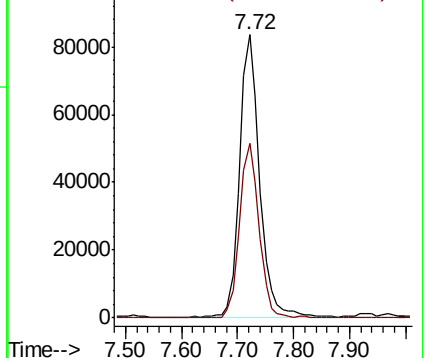
98 100

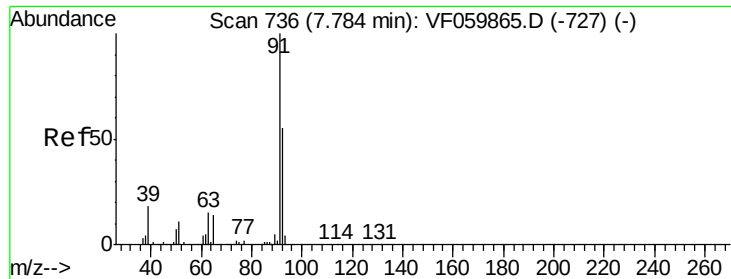
100 61.6 55.0 82.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 5.28 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampled :

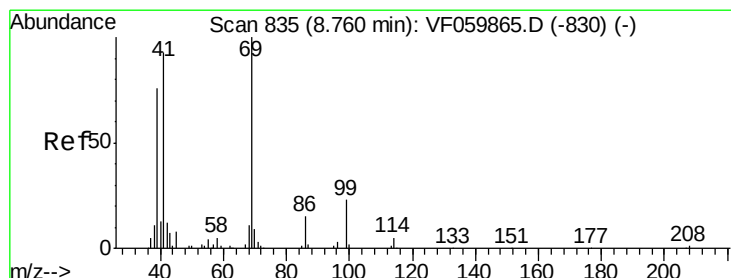
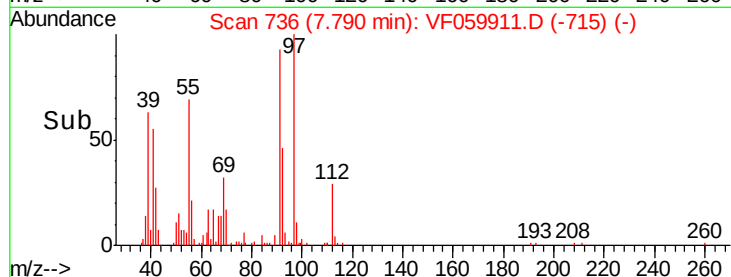
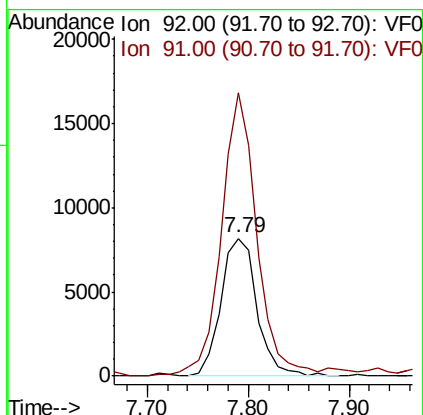
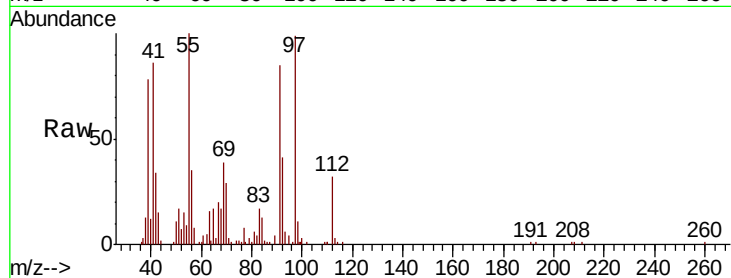
TP-2

Tot Ion: 92 Resp: 20283

Ion Ratio Lower Upper

92 100

91 205.8 145.7 218.5



#56

Ethyl methacrylate

Concen: 373.33 ug/l

RT: 8.81 min Scan# 839

Delta R.T. 0.05 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

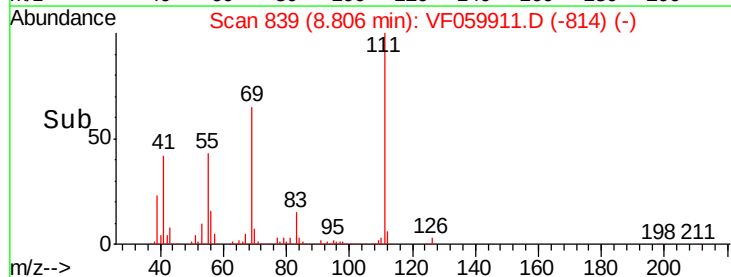
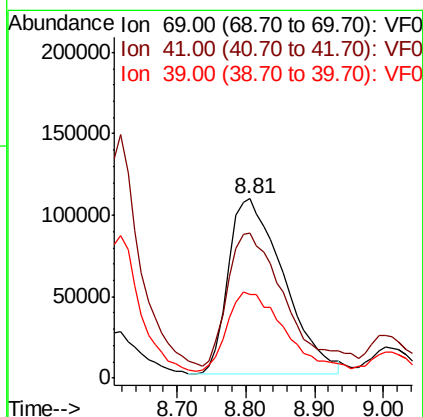
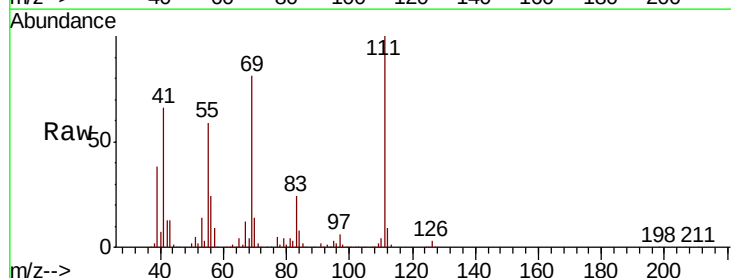
Tgt Ion: 69 Resp: 601665

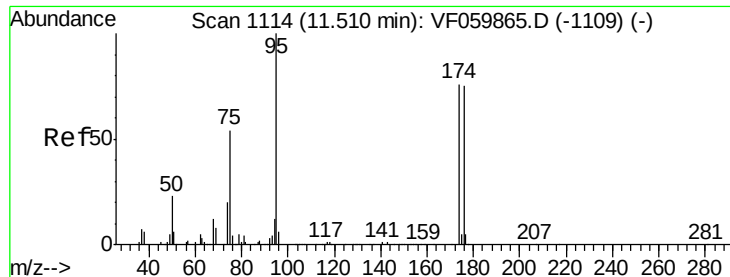
Ion Ratio Lower Upper

69 100

41 81.1 74.7 112.1

39 46.5 61.1 91.7#





#62

4-Bromofluorobenzene

Concen: 58.52 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampled :

TP-2

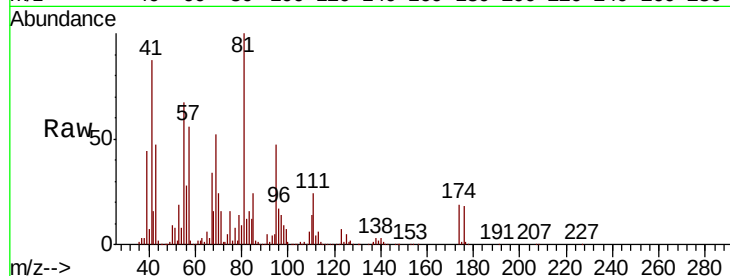
Tot Ion: 95 Resp: 183144

Ion Ratio Lower Upper

95 100

174 40.4 0.0 151.6

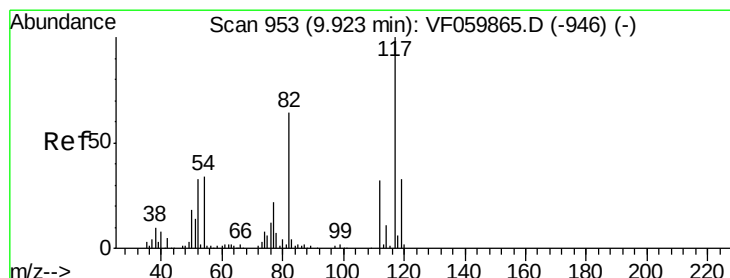
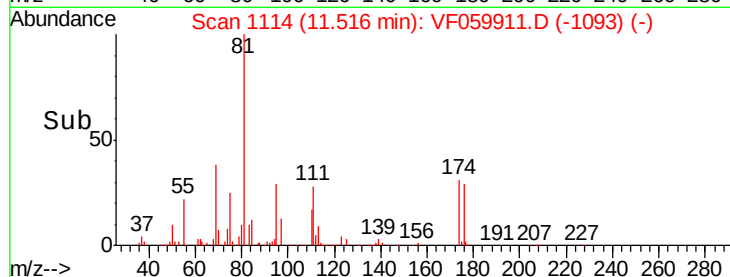
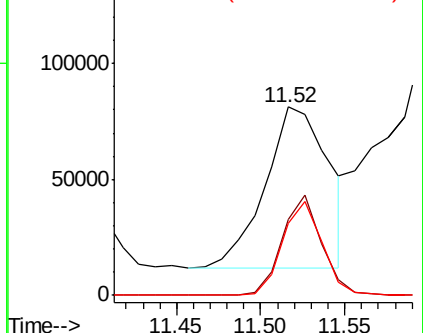
176 38.0 0.0 149.8



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: 50.00 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.01 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

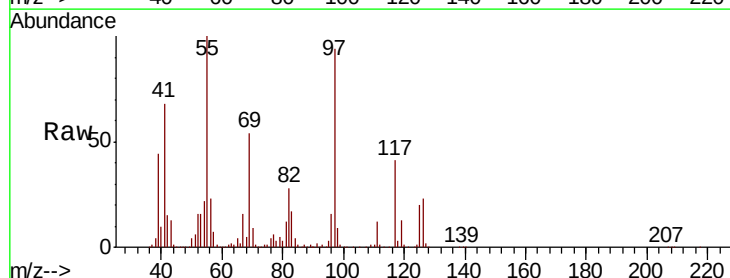
Tgt Ion: 117 Resp: 218355

Ion Ratio Lower Upper

117 100

82 68.5 51.3 76.9

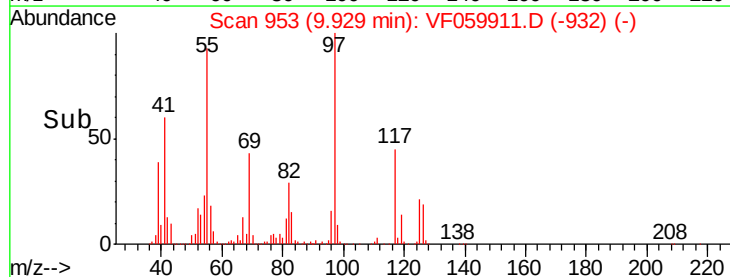
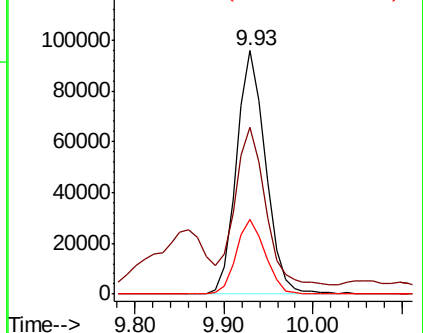
119 30.9 26.4 39.6

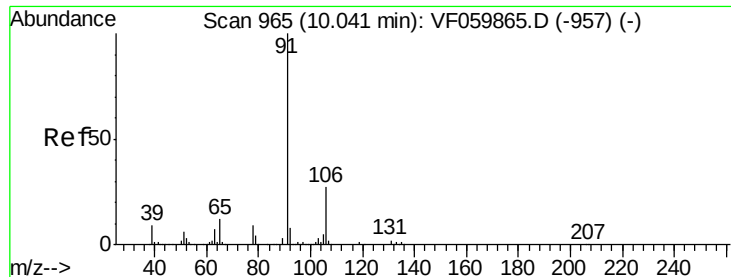


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 86.45 ug/l

RT: 10.06 min Scan# 966

Delta R.T. 0.02 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampleId :

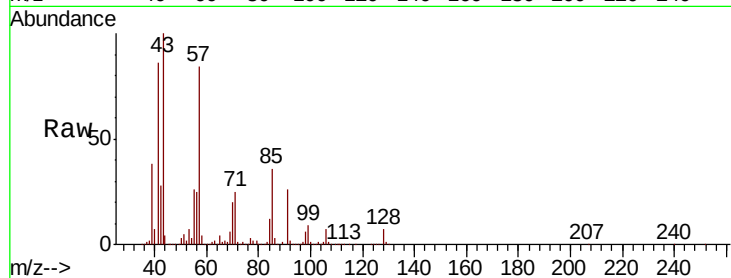
TP-2

Tot Ion: 91 Resp: 667490

Ion Ratio Lower Upper

91 100

106 25.7 21.5 32.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

600000

500000

400000

300000

200000

100000

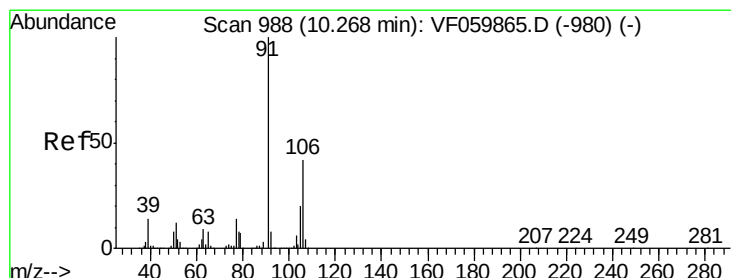
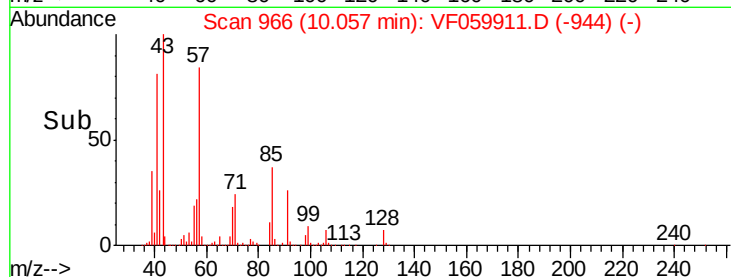
0

10.06

10.10

10.20

Time-->



#68

m/p-Xylenes

Concen: 181.17 ug/l

RT: 10.28 min Scan# 989

Delta R.T. 0.02 min

Lab File: VF059911.D

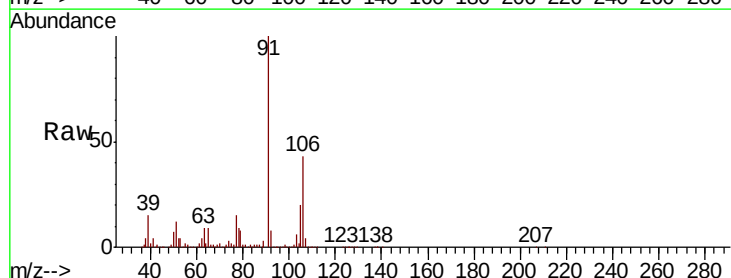
Acq: 7 Aug 2018 9:48

Tgt Ion:106 Resp: 483580

Ion Ratio Lower Upper

106 100

91 231.7 192.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

600000

500000

400000

300000

200000

100000

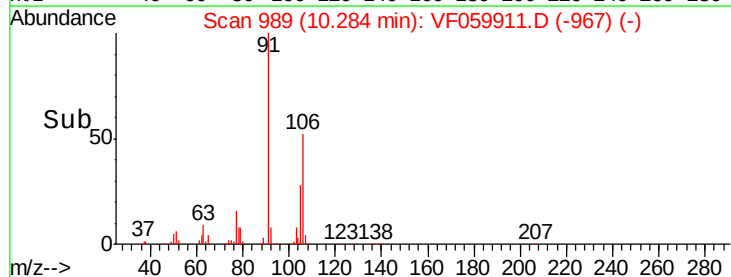
0

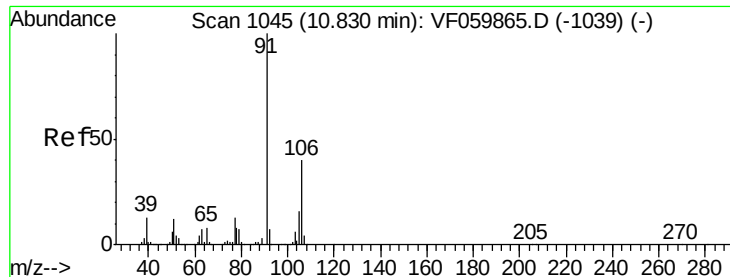
10.28

10.30

10.40

Time-->

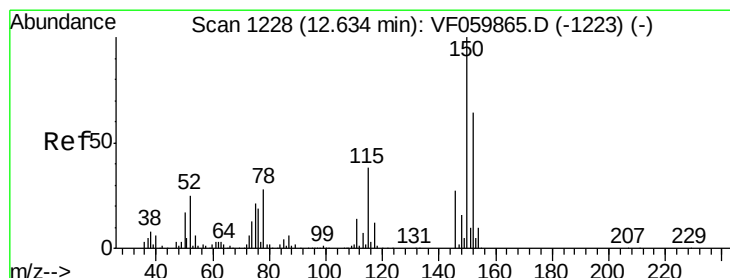
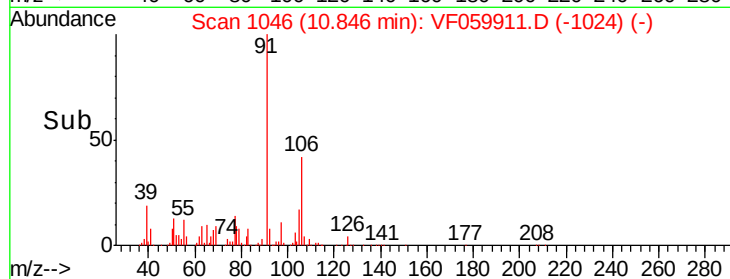
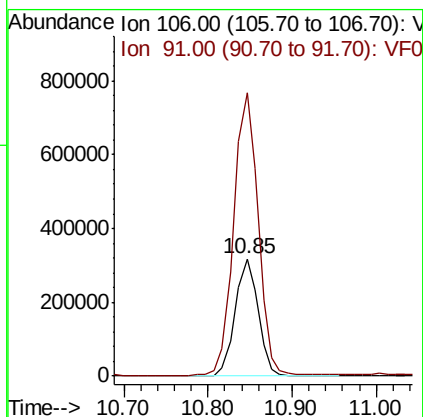
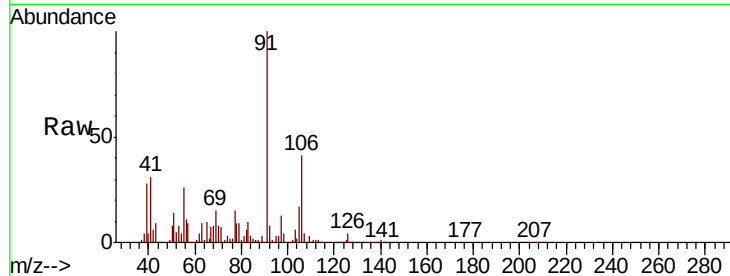




#69
o-Xylene
Concen: 215.13 ug/l
RT: 10.85 min Scan# 1046
Delta R.T. 0.02 min
Lab File: VF059911.D
Acq: 7 Aug 2018 9:48

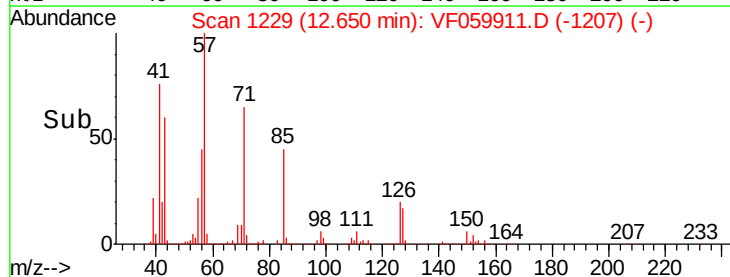
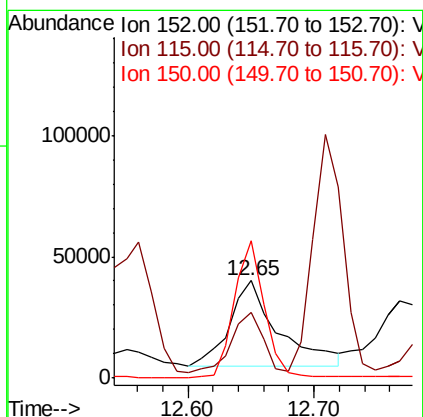
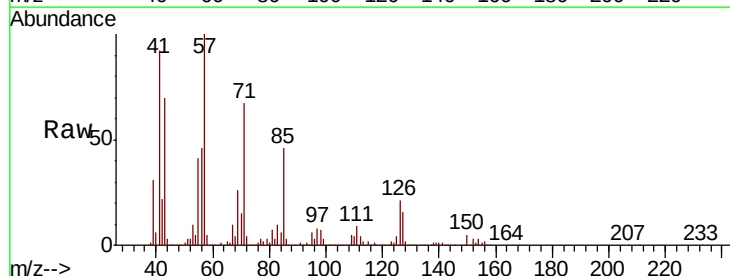
Instrument :
MSVOA_F
ClientSampleId :
TP-2

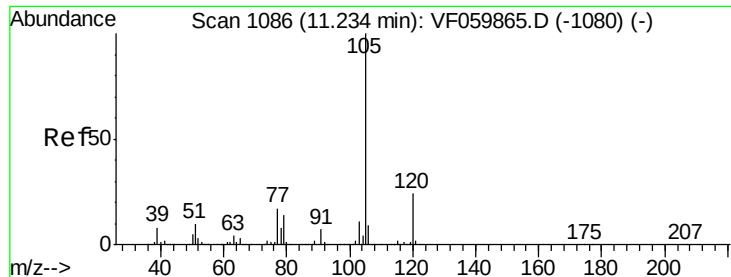
Tot Ion:106 Resp: 608293
Ion Ratio Lower Upper
106 100
91 241.3 125.4 376.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.65 min Scan# 1229
Delta R.T. 0.02 min
Lab File: VF059911.D
Acq: 7 Aug 2018 9:48

Tgt Ion:152 Resp: 93644
Ion Ratio Lower Upper
152 100
115 68.0 29.8 89.4
150 140.8 0.0 315.6





#73

Isopropylbenzene

Concen: 102.19 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. 0.01 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampled :

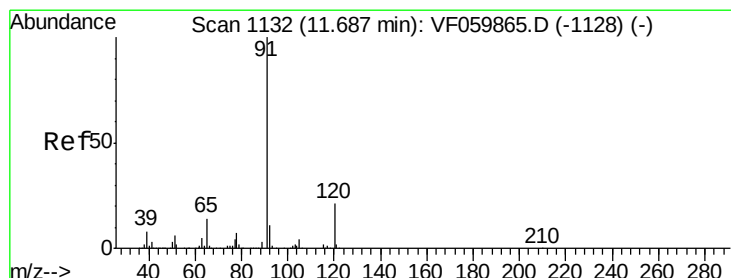
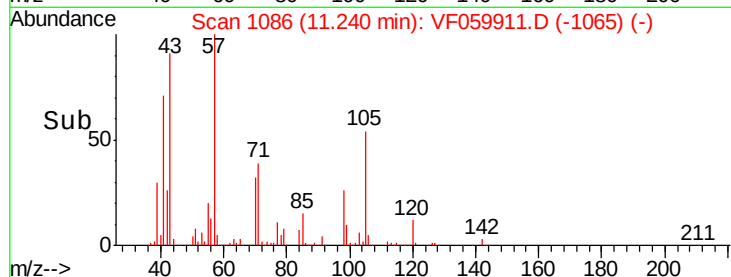
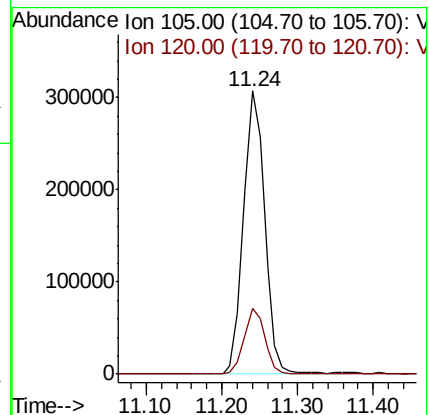
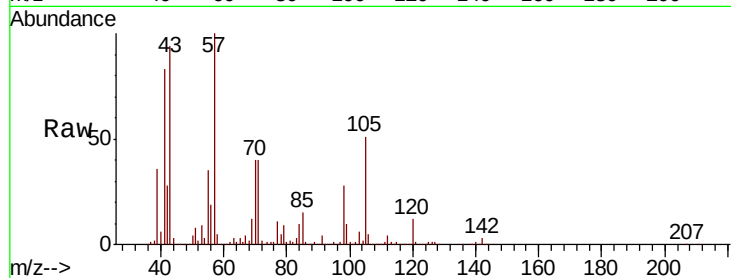
TP-2

Tot Ion:105 Resp: 596023

Ion Ratio Lower Upper

105 100

120 23.0 12.1 36.3



#78

n-propylbenzene

Concen: 204.62 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. 0.02 min

Lab File: VF059911.D

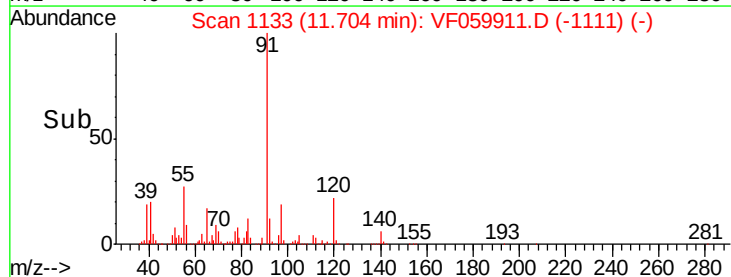
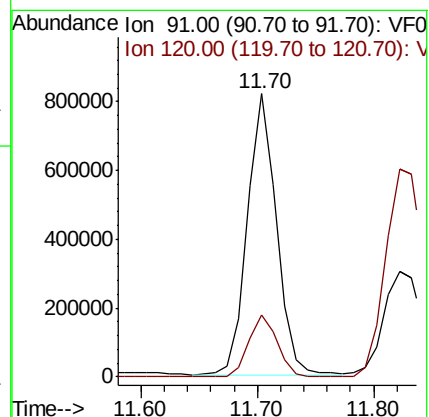
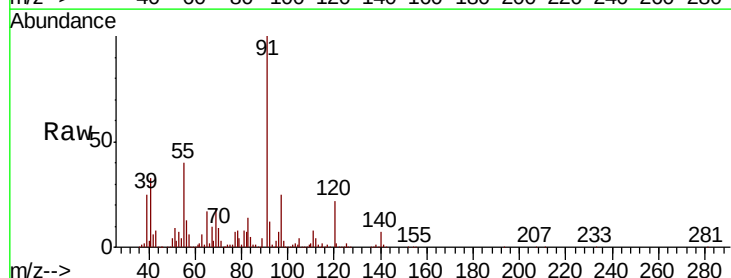
Acq: 7 Aug 2018 9:48

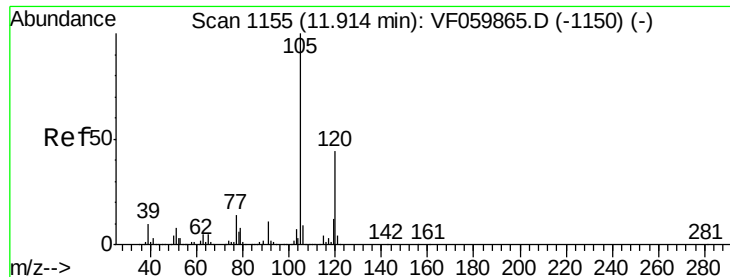
Tgt Ion: 91 Resp: 1409498

Ion Ratio Lower Upper

91 100

120 21.8 10.4 31.2





#80

1,3,5-Trimethylbenzene

Concen: 482.79 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. 0.03 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampled :

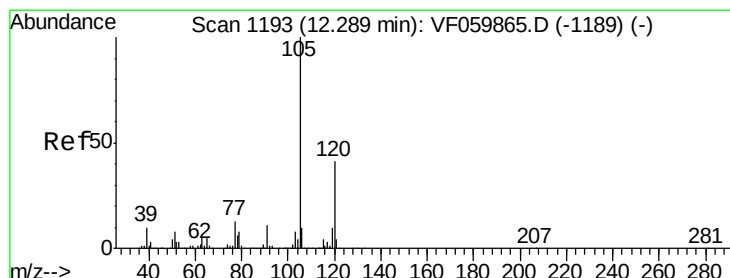
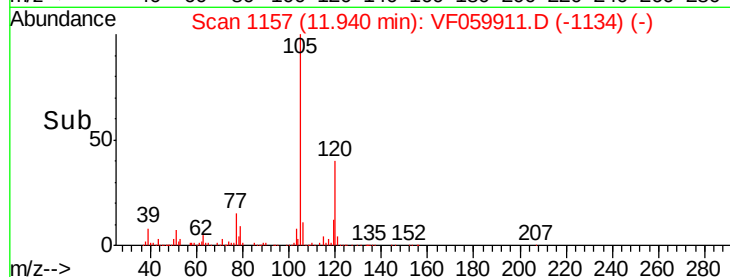
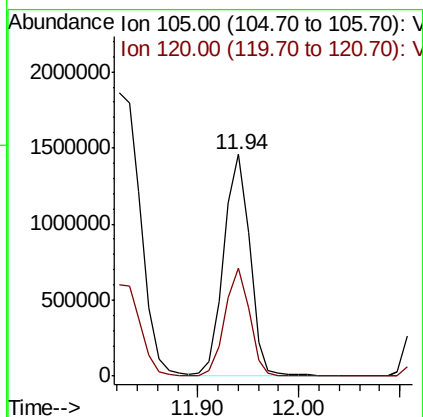
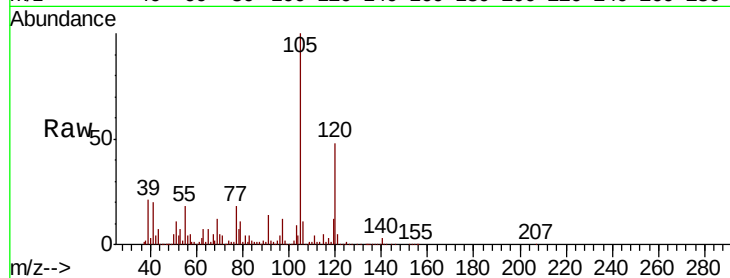
TP-2

Tot Ion:105 Resp: 2614874

Ion Ratio Lower Upper

105 100

120 48.4 21.9 65.7



#84

1,2,4-Trimethylbenzene

Concen: 721.16 ug/l

RT: 12.31 min Scan# 1195

Delta R.T. 0.03 min

Lab File: VF059911.D

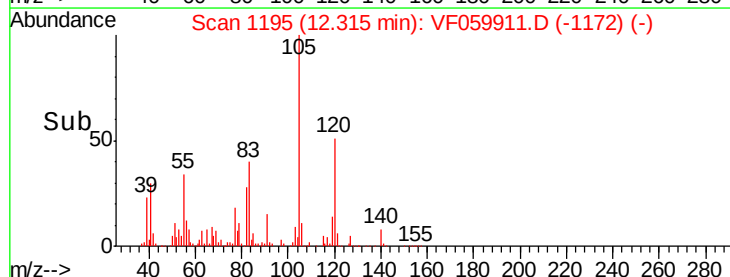
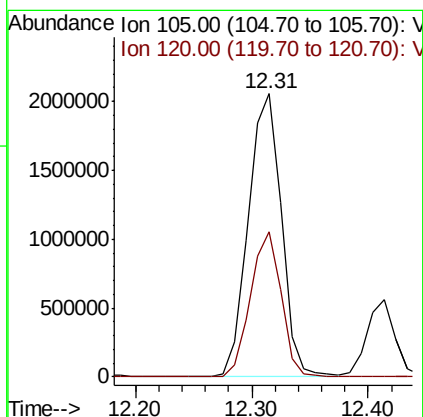
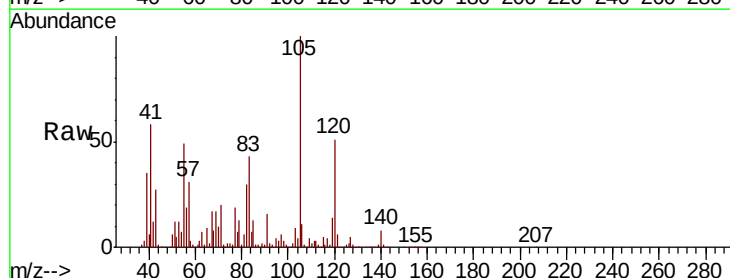
Acq: 7 Aug 2018 9:48

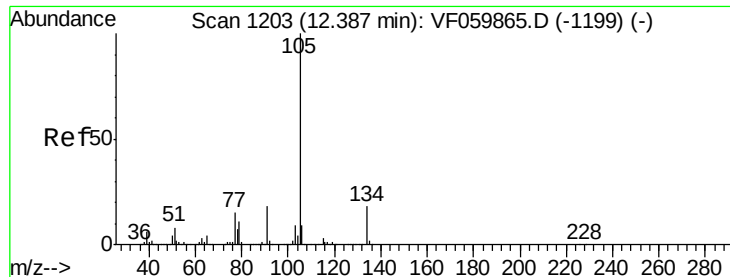
Tgt Ion:105 Resp: 4017082

Ion Ratio Lower Upper

105 100

120 51.4 20.8 62.5

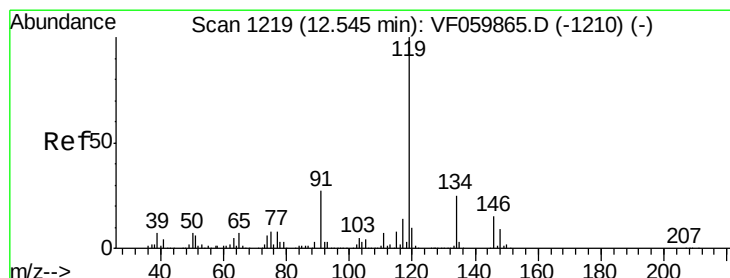
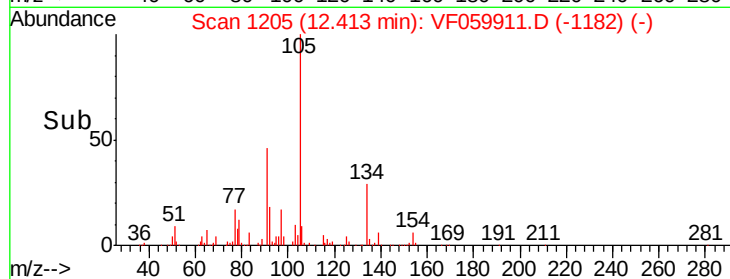
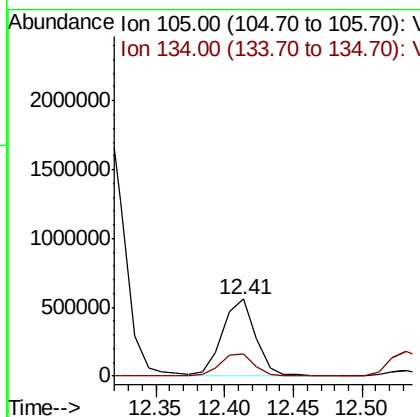
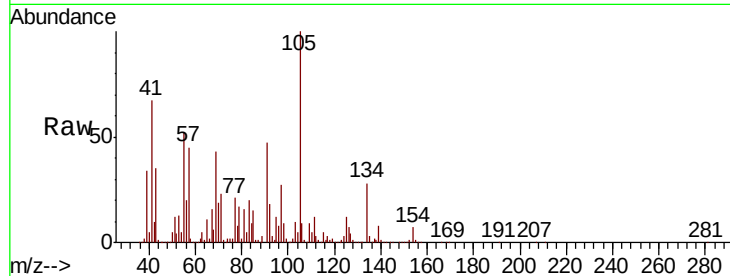




#85
 sec-Butylbenzene
 Concen: 130.16 ug/l
 RT: 12.41 min Scan# 1205
 Delta R.T. 0.03 min
 Lab File: VF059911.D
 Acq: 7 Aug 2018 9:48

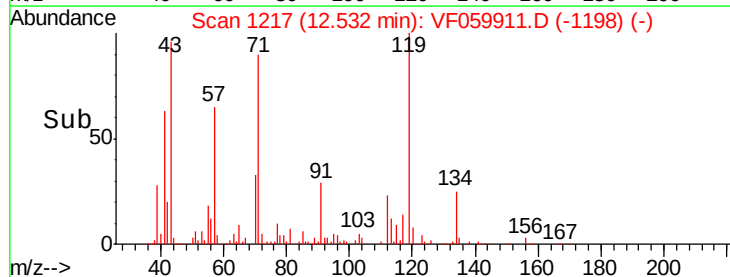
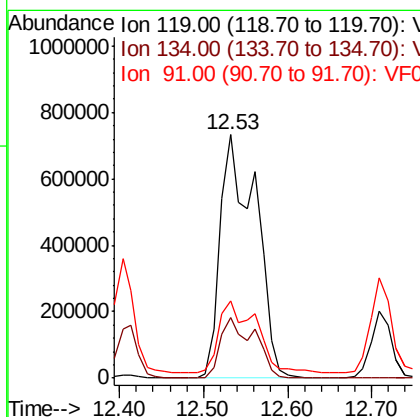
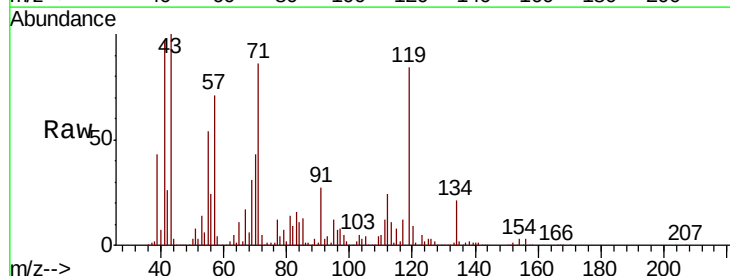
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2

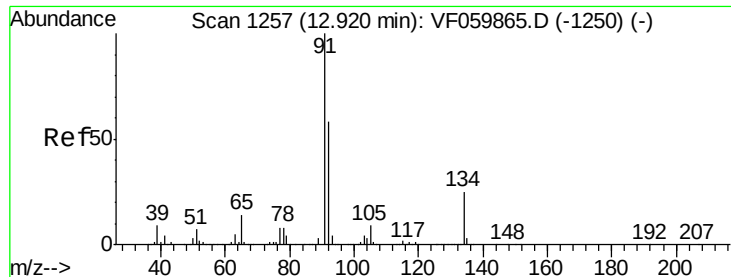
Tot Ion:105 Resp: 911785
 Ion Ratio Lower Upper
 105 100
 134 28.2 9.1 27.3#



#86
 p-Isopropyltoluene
 Concen: 362.91 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: VF059911.D
 Acq: 7 Aug 2018 9:48

Tgt Ion:119 Resp: 2136736
 Ion Ratio Lower Upper
 119 100
 134 25.0 12.4 37.0
 91 31.6 13.6 40.7





#89

n-Butylbenzene

Concen: 243.29 ug/l

RT: 12.94 min Scan# 1258

Delta R.T. 0.02 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

Instrument :

MSVOA_F

ClientSampled :

TP-2

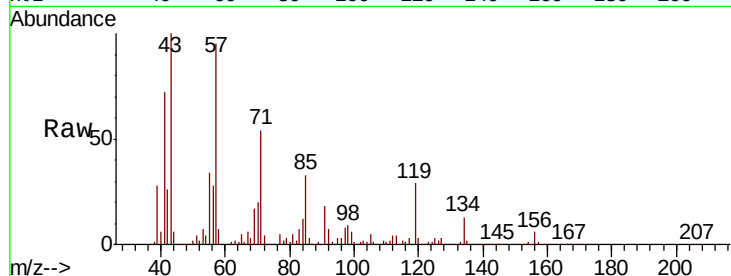
Tot Ion: 91 Resp: 1365165

Ion Ratio Lower Upper

91 100

92 41.7 28.8 86.5

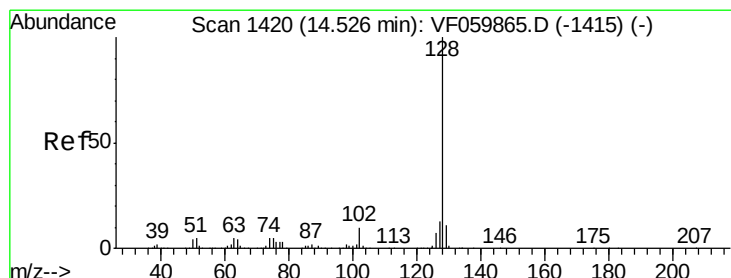
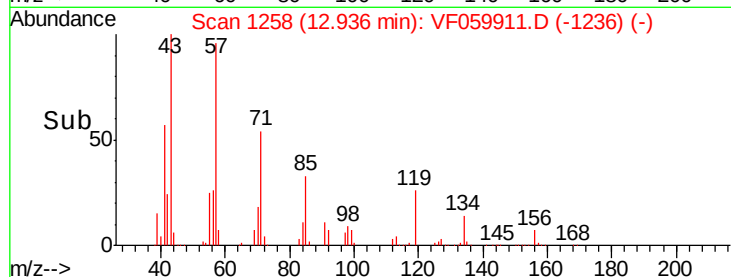
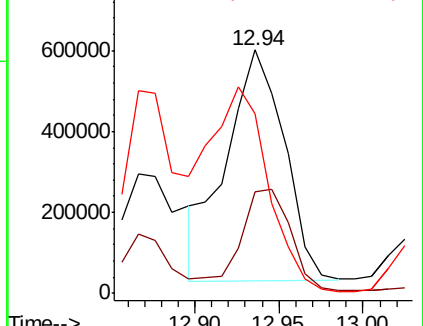
134 73.7 12.6 37.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 275.53 ug/l

RT: 14.54 min Scan# 1421

Delta R.T. 0.02 min

Lab File: VF059911.D

Acq: 7 Aug 2018 9:48

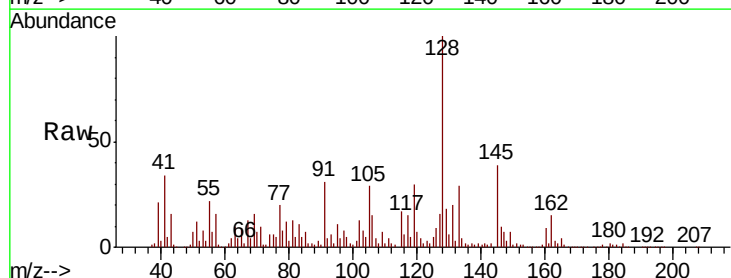
Tgt Ion:128 Resp: 1047512

Ion Ratio Lower Upper

128 100

127 16.1 10.4 15.6#

129 18.5 9.0 13.6#



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

