

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082218\
 Data File : VX004211.D
 Acq On : 22 Aug 2018 20:50
 Operator : JC/MD
 Sample : J4579-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0546

Quant Time: Aug 23 09:38:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	317020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	497960	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	433378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	281560	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	203183	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
35) Dibromofluoromethane	5.51	113	174521	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
50) Toluene-d8	8.71	98	710647	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.14	95	260837	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	

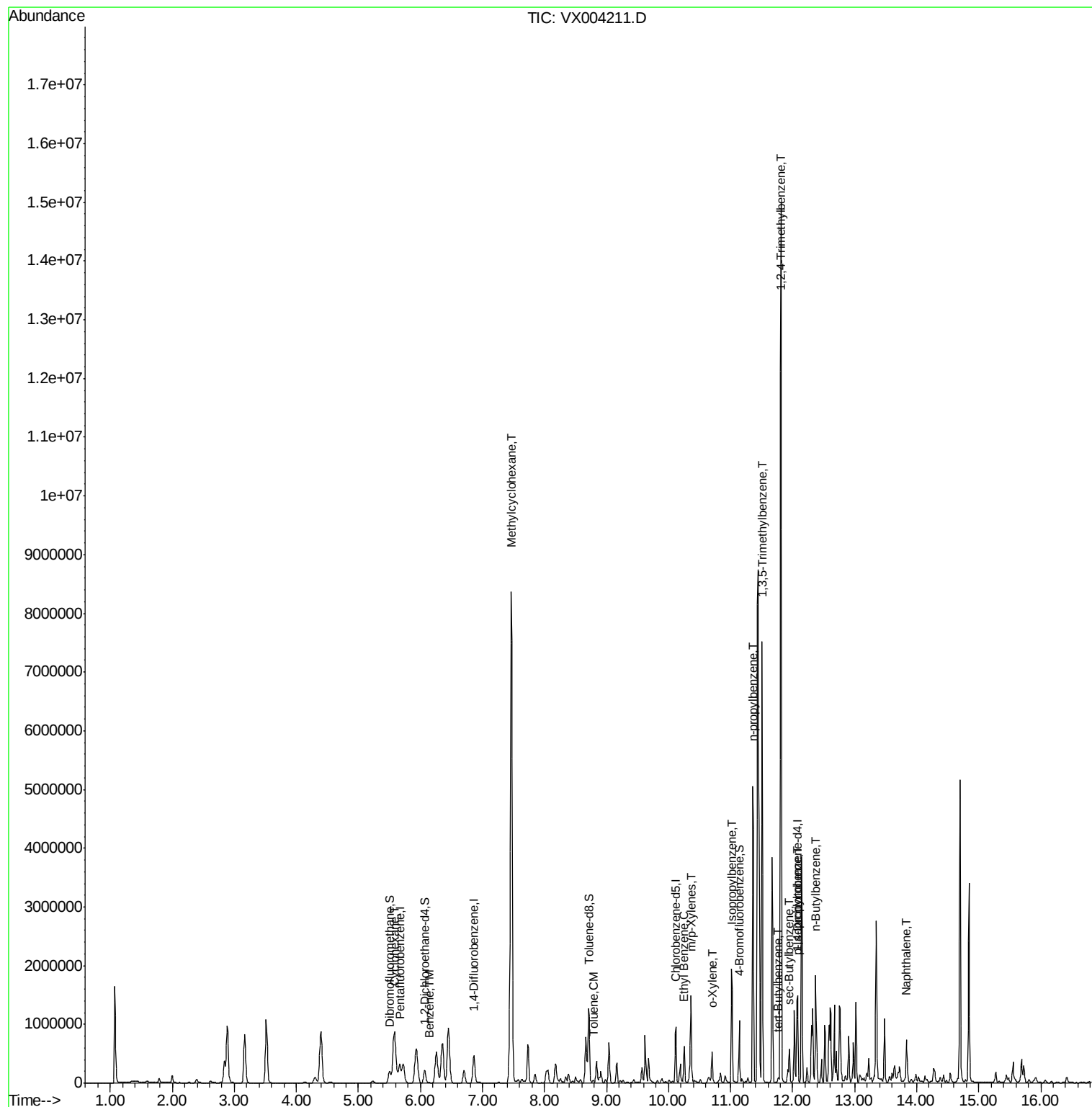
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	5.57	56	632536	109.19	ug/l	99
39) Methylcyclohexane	7.46	83	3817919	597.33	ug/l	99
40) Benzene	6.15	78	8044	0.48	ug/l	93
52) Toluene	8.79	92	14979	1.43	ug/l	99
67) Ethyl Benzene	10.25	91	346947	19.64	ug/l	99
68) m/p-Xylenes	10.36	106	321882	46.60	ug/l	98
69) o-Xylene	10.70	106	115828	17.73	ug/l	99
73) Isopropylbenzene	11.02	105	992911	53.69	ug/l	99
78) n-propylbenzene	11.36	91	2991362	140.64	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	3308342	216.03	ug/l	99
83) tert-Butylbenzene	11.77	119	32458	2.11	ug/l #	46
84) 1,2,4-Trimethylbenzene	11.81	105	6048951	384.79	ug/l	95
85) sec-Butylbenzene	11.94	105	313709	17.15	ug/l	84
86) p-Isopropyltoluene	12.07	119	338785	20.67	ug/l	99
89) n-Butylbenzene	12.38	91	245265	18.40	ug/l #	18
95) Naphthalene	13.83	128	434776	23.67	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

Instrument :

MSVOA_X

ClientSampled :

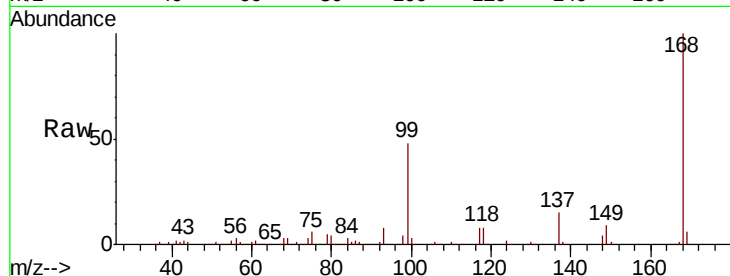
FL-0546

Tot Ion:168 Resp: 317020

Ion Ratio Lower Upper

168 100

99 48.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

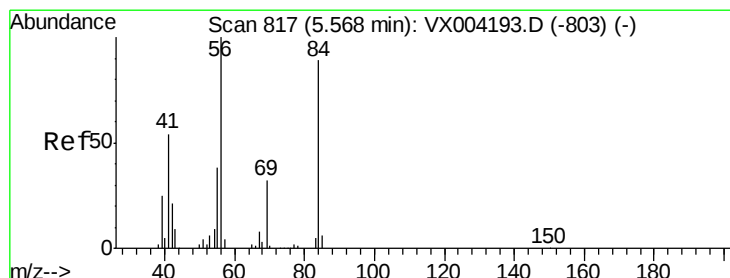
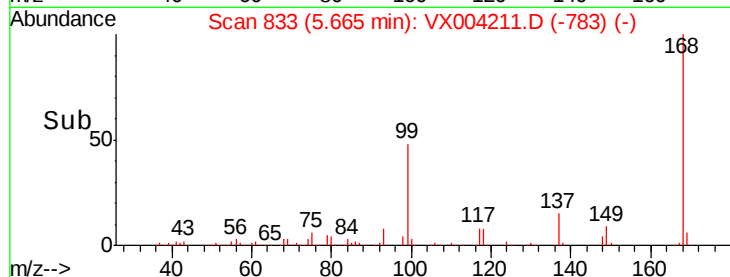
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 109.19 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.01 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

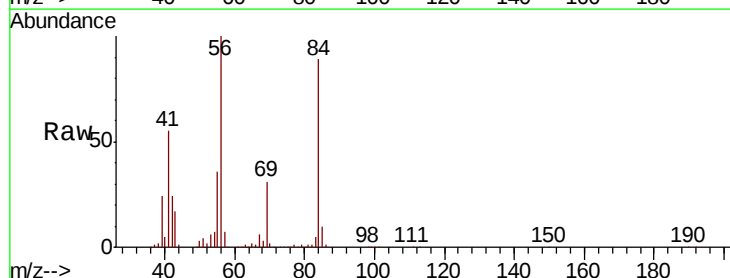
Tgt Ion: 56 Resp: 632536

Ion Ratio Lower Upper

56 100

69 30.7 25.4 38.2

84 89.5 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

5.57

250000

200000

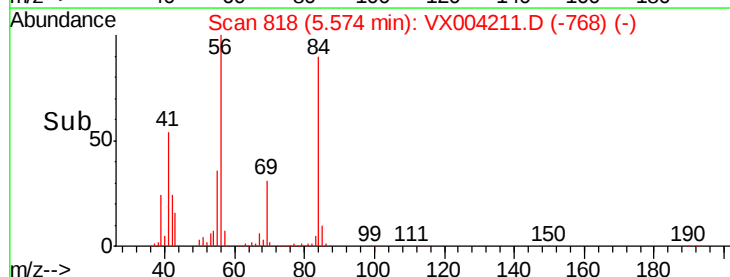
150000

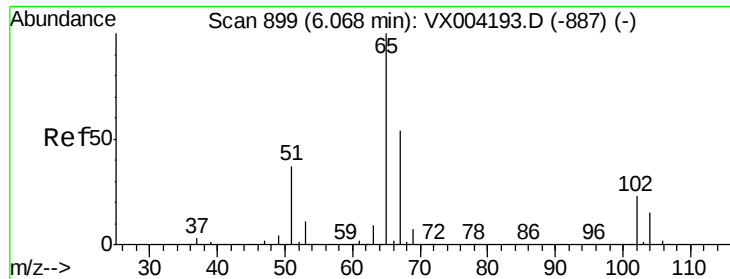
100000

50000

0

Time--> 5.50 5.60 5.70

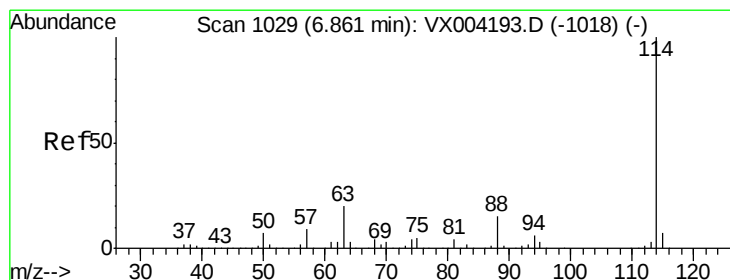
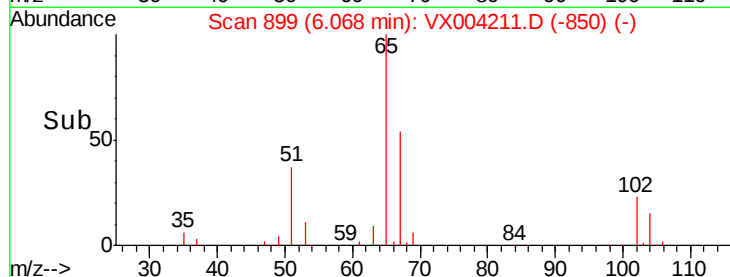
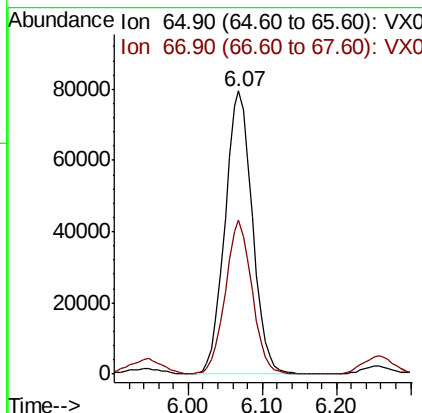
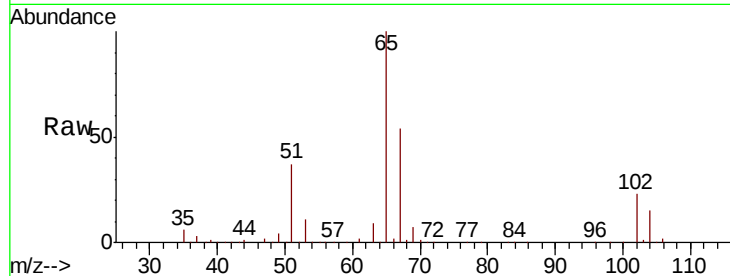




#33
 1,2-Dichloroethane-d4
 Concen: 49.17 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004211.D
 Acq: 22 Aug 2018 20:50

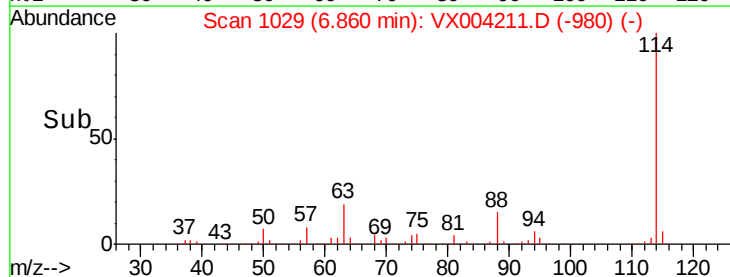
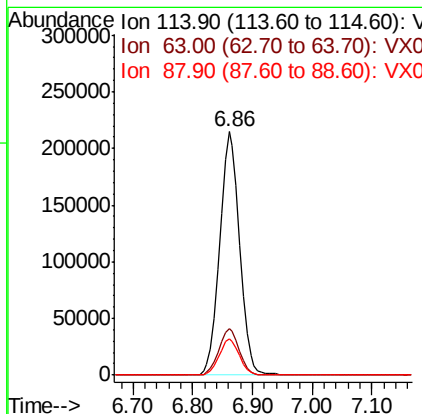
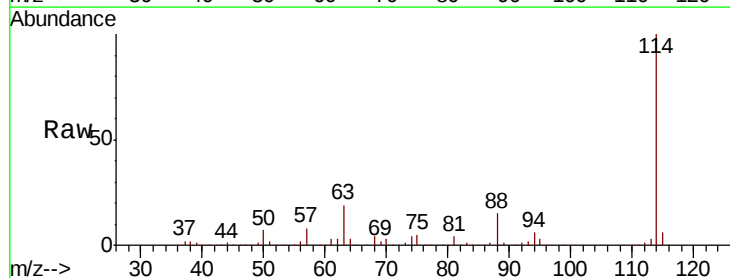
Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0546

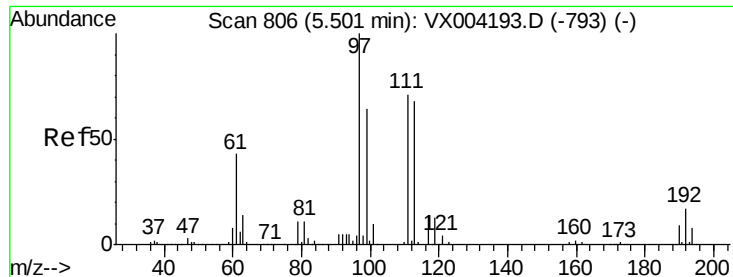
Tot Ion: 65 Resp: 203183
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004211.D
 Acq: 22 Aug 2018 20:50

Tgt Ion: 114 Resp: 497960
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 15.0 0.0 30.4

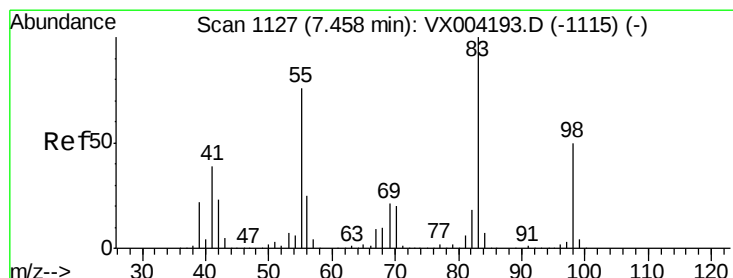
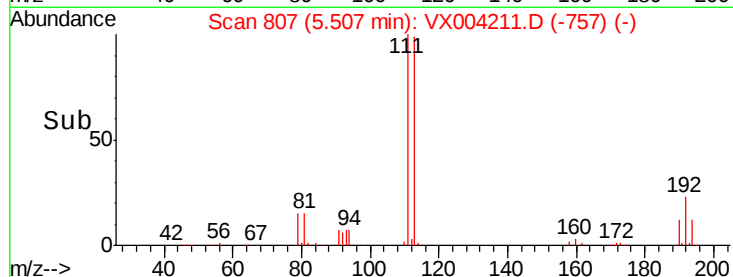
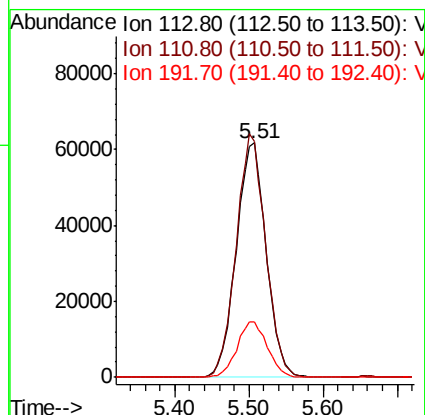
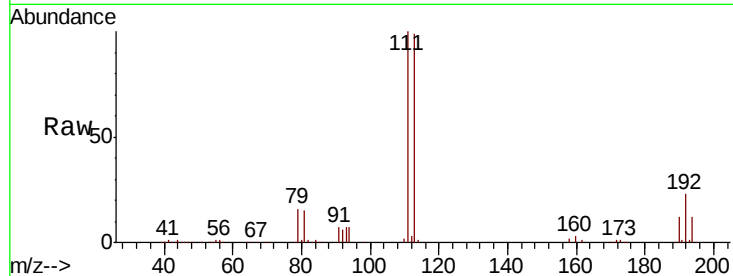




#35
 Dibromofluoromethane
 Concen: 47.11 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004211.D
 Acq: 22 Aug 2018 20:50

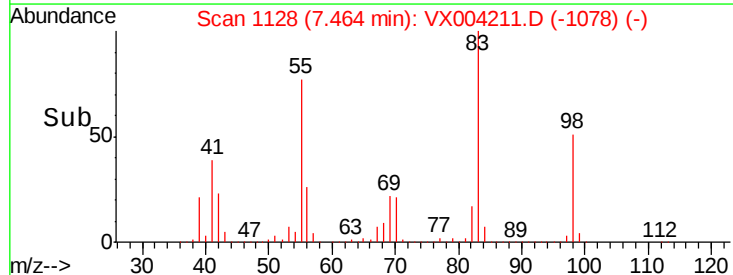
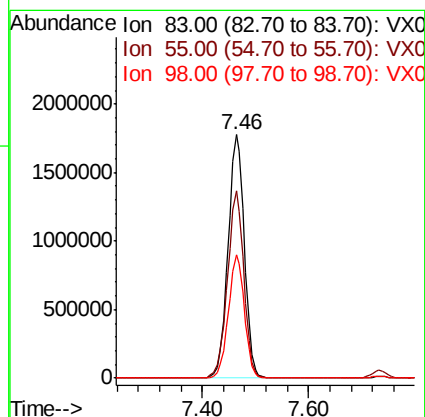
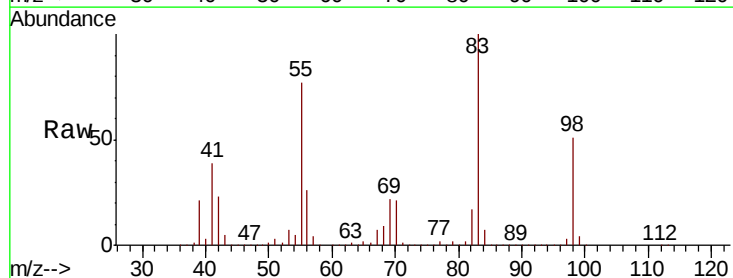
Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0546

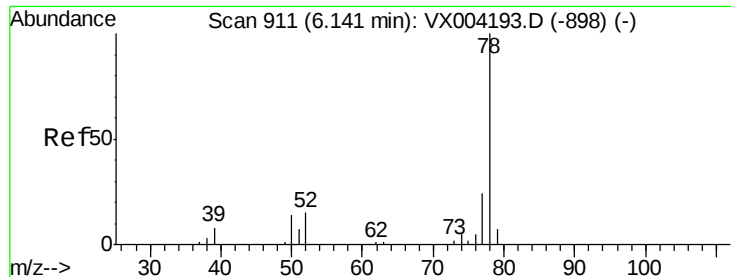
Tot Ion:113 Resp: 174521
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 24.0 19.4 29.2



#39
 Methylcyclohexane
 Concen: 597.33 ug/l
 RT: 7.46 min Scan# 1128
 Delta R.T. 0.01 min
 Lab File: VX004211.D
 Acq: 22 Aug 2018 20:50

Tgt Ion: 83 Resp: 3817919
 Ion Ratio Lower Upper
 83 100
 55 76.7 61.0 91.4
 98 50.7 39.6 59.4





#40

Benzene

Concen: 0.48 ug/l

RT: 6.15 min Scan# 912

Delta R.T. 0.01 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

Instrument :

MSVOA_X

ClientSampleId :

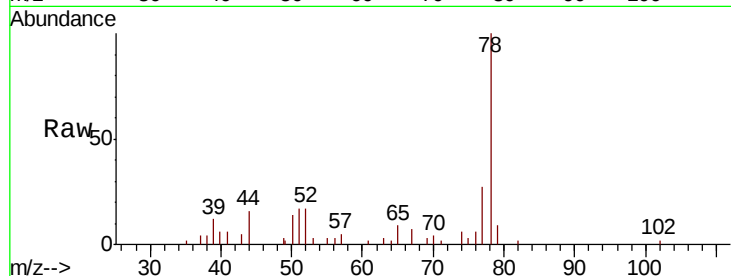
FL-0546

Tot Ion: 78 Resp: 8044

Ion Ratio Lower Upper

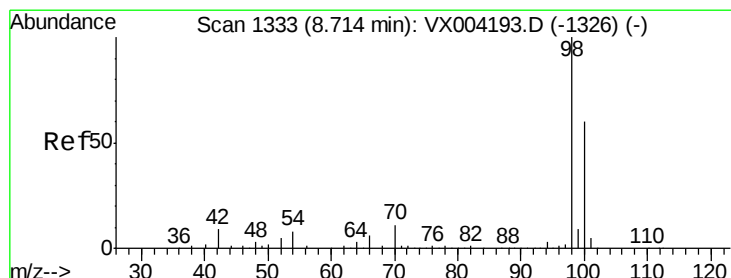
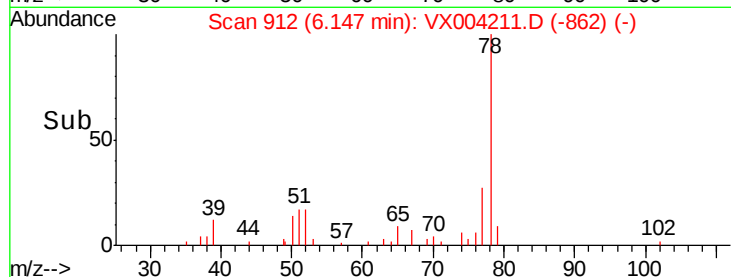
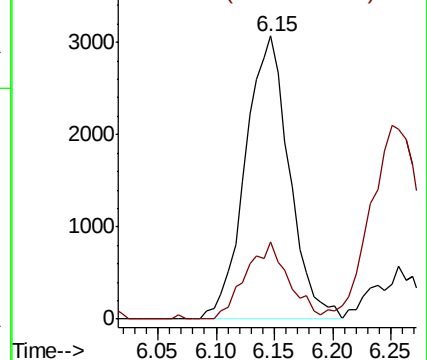
78 100

77 27.2 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 50.82 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004211.D

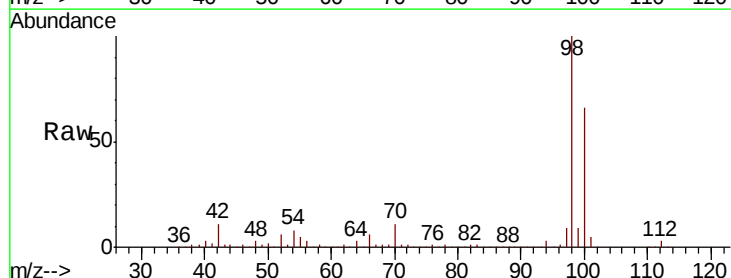
Acq: 22 Aug 2018 20:50

Tgt Ion: 98 Resp: 710647

Ion Ratio Lower Upper

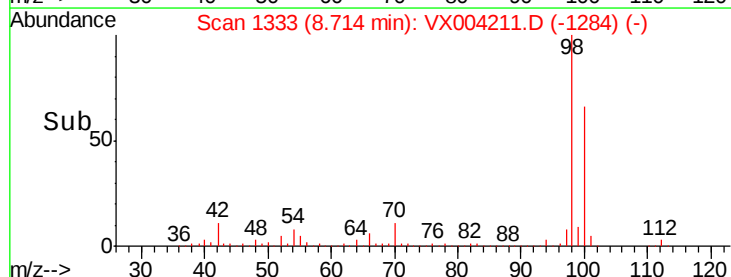
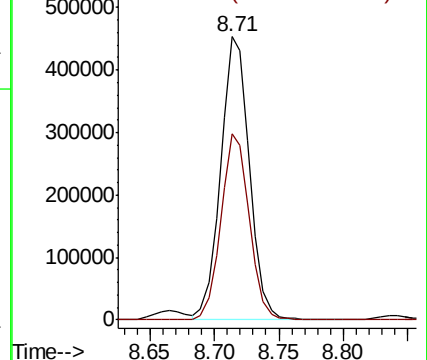
98 100

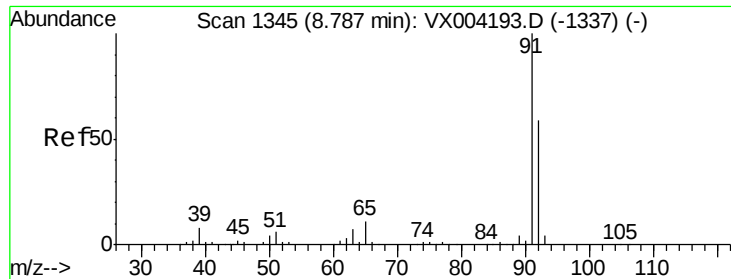
100 65.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 1.43 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

Instrument :

MSVOA_X

ClientSampleId :

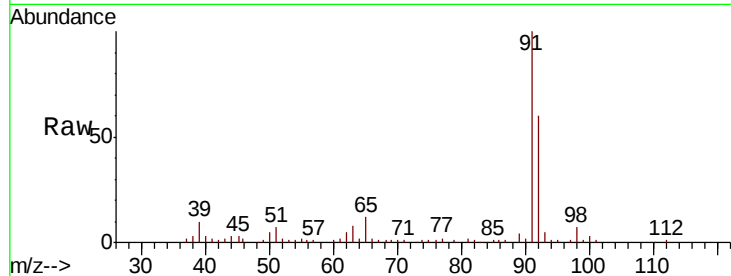
FL-0546

Tot Ion: 92 Resp: 14979

Ion Ratio Lower Upper

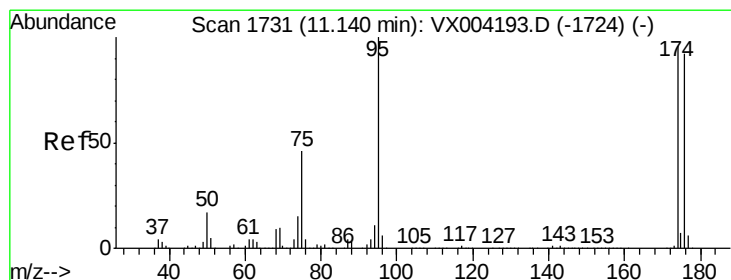
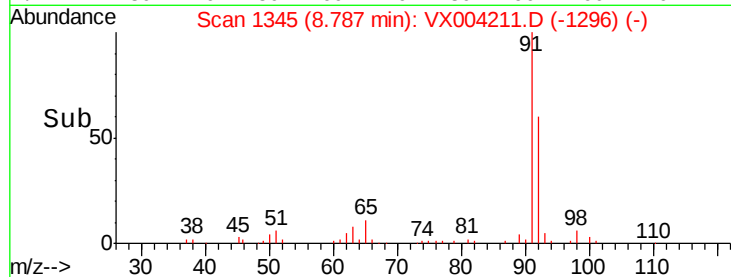
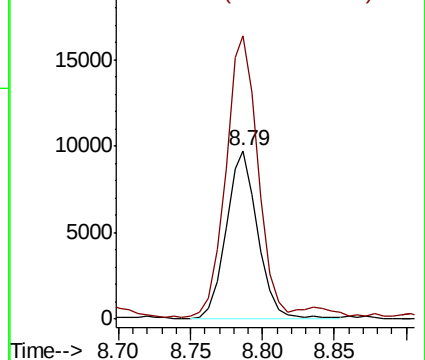
92 100

91 168.5 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 49.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

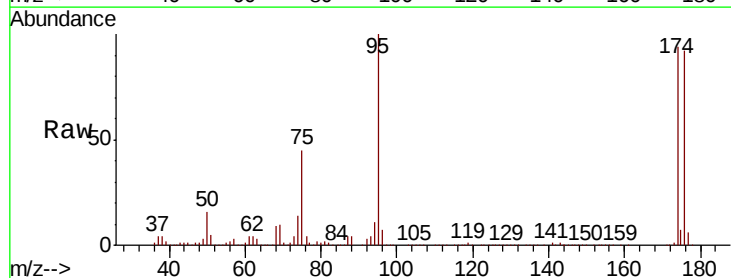
Tgt Ion: 95 Resp: 260837

Ion Ratio Lower Upper

95 100

174 91.3 0.0 185.2

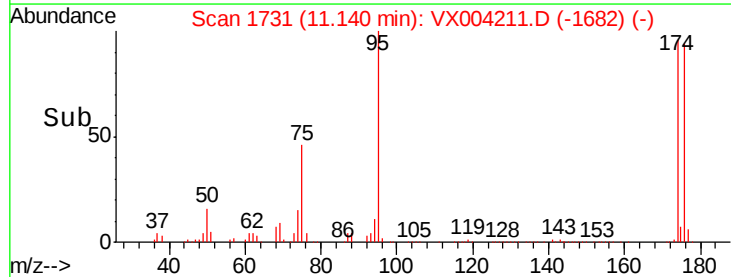
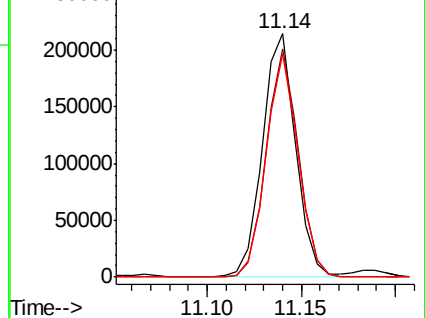
176 88.9 0.0 178.6

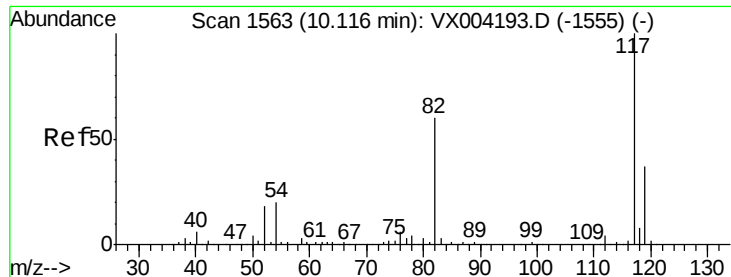


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

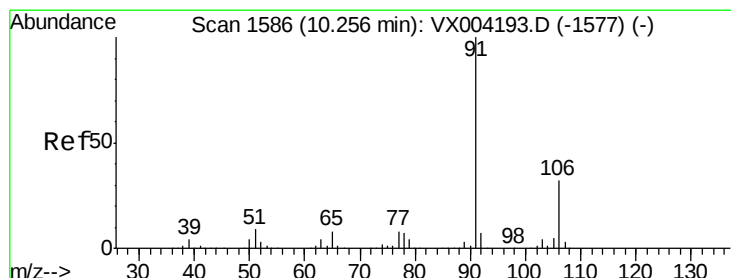
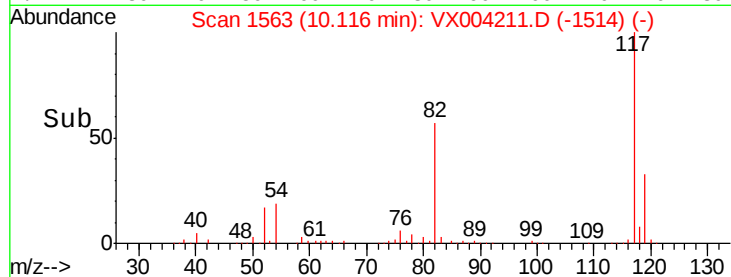
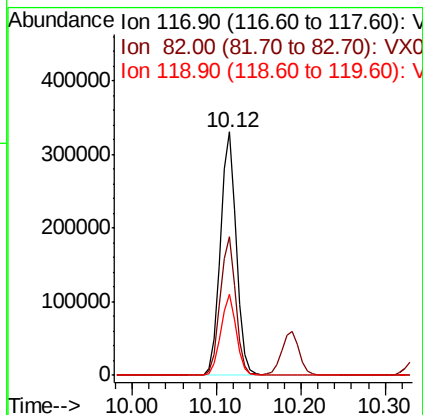
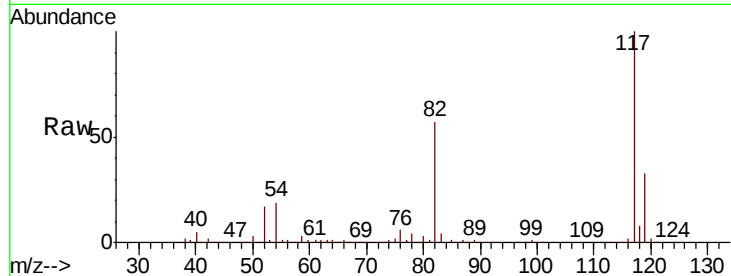




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004211.D
Acq: 22 Aug 2018 20:50

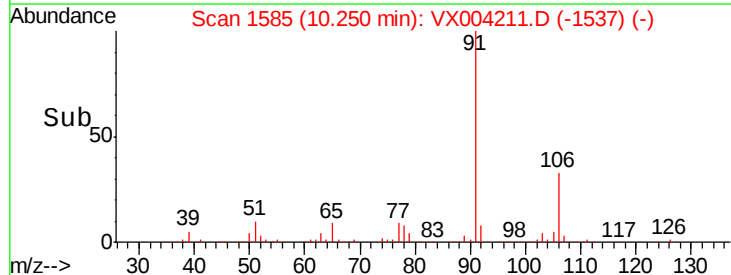
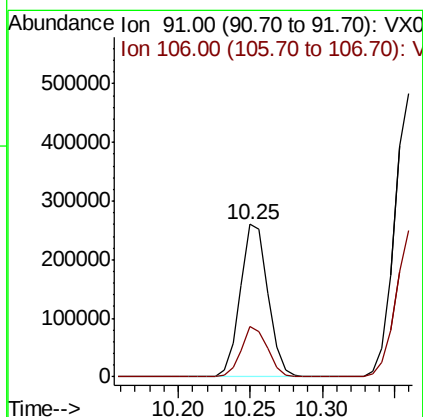
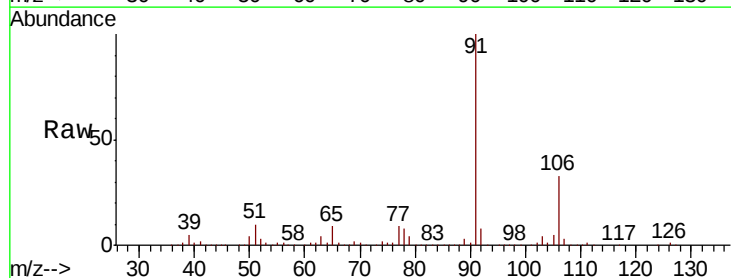
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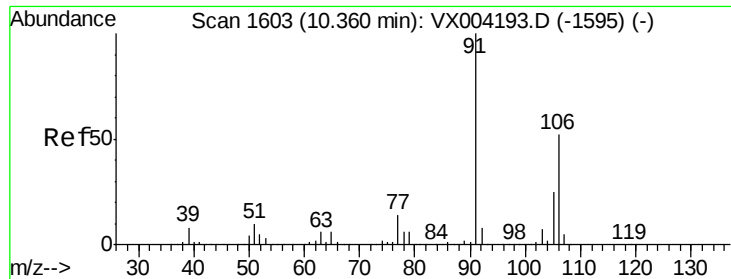
Tot Ion:117 Resp: 433378
Ion Ratio Lower Upper
117 100
82 56.6 47.8 71.6
119 33.1 29.3 43.9



#67
Ethyl Benzene
Concen: 19.64 ug/l
RT: 10.25 min Scan# 1585
Delta R.T. -0.01 min
Lab File: VX004211.D
Acq: 22 Aug 2018 20:50

Tgt Ion: 91 Resp: 346947
Ion Ratio Lower Upper
91 100
106 33.1 25.9 38.9

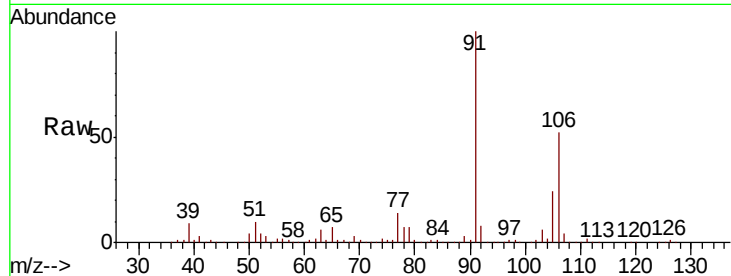




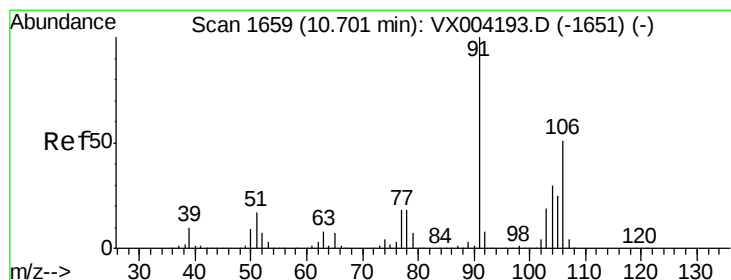
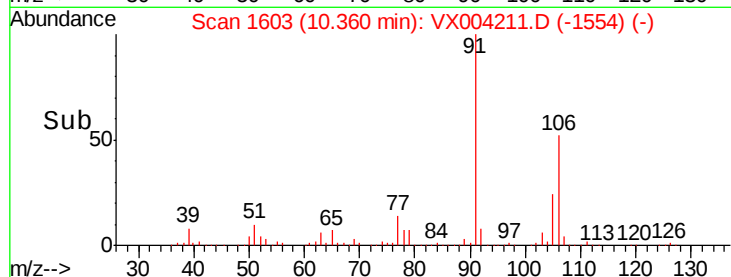
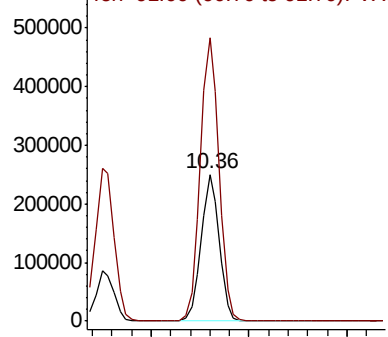
#68
m/p-Xylenes
Concen: 46.60 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX004211.D
Acq: 22 Aug 2018 20:50

Instrument :
MSVOA_X
ClientSampleId :
FL-0546

Tot Ion:106 Resp: 321882
Ion Ratio Lower Upper
106 100
91 199.4 157.1 235.7

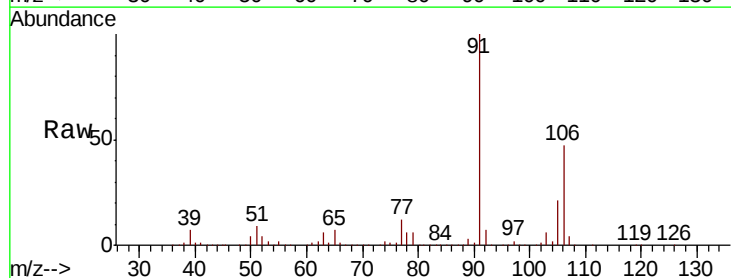


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

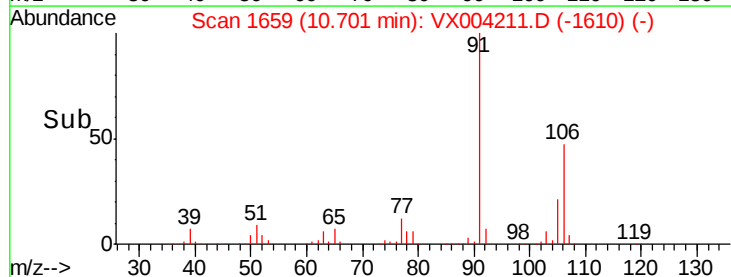
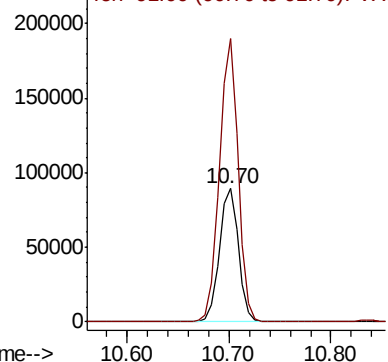


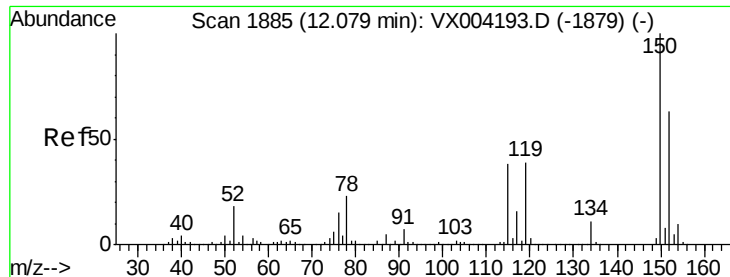
#69
o-Xylene
Concen: 17.73 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX004211.D
Acq: 22 Aug 2018 20:50

Tgt Ion:106 Resp: 115828
Ion Ratio Lower Upper
106 100
91 209.0 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

Instrument :

MSVOA_X

ClientSampleId :

FL-0546

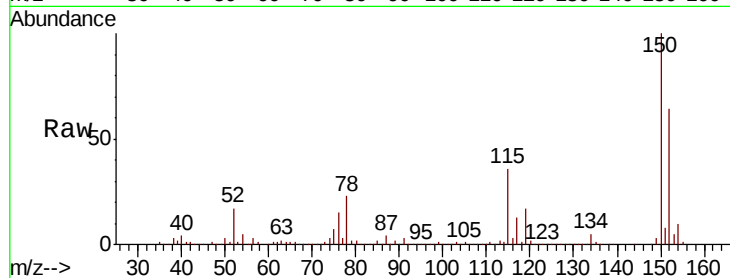
Tot Ion:152 Resp: 281560

Ion Ratio Lower Upper

152 100

115 61.8 39.0 117.0

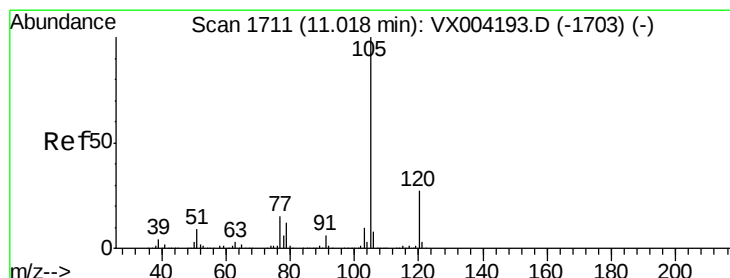
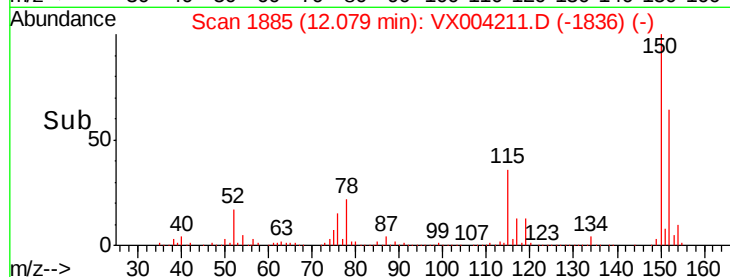
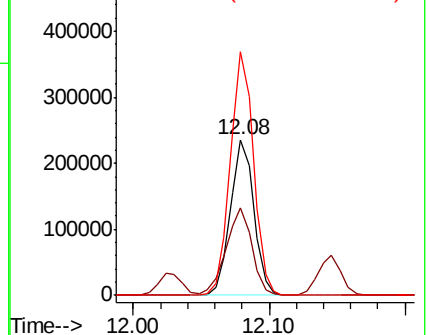
150 155.6 0.0 351.0



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



#73

Isopropylbenzene

Concen: 53.69 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VX004211.D

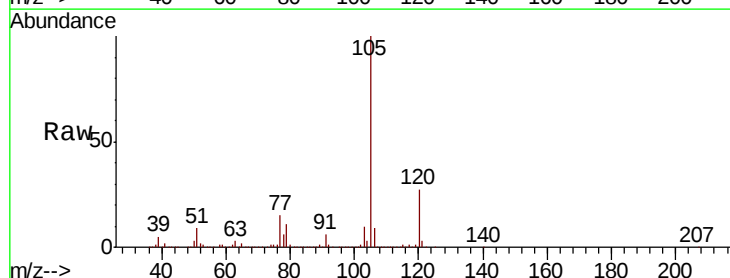
Acq: 22 Aug 2018 20:50

Tgt Ion:105 Resp: 992911

Ion Ratio Lower Upper

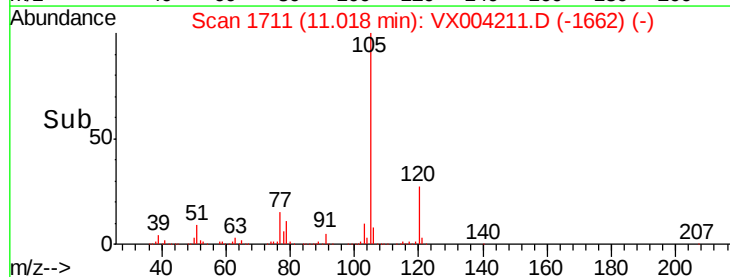
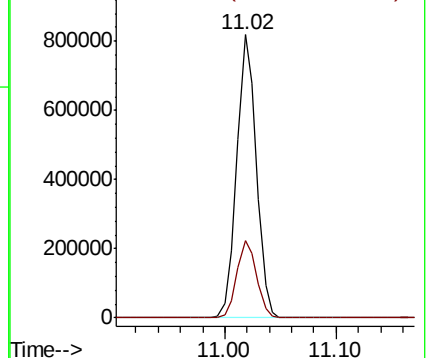
105 100

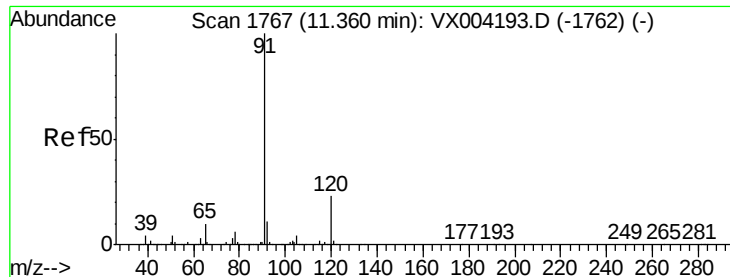
120 27.6 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 140.64 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

Instrument :

MSVOA_X

ClientSampled :

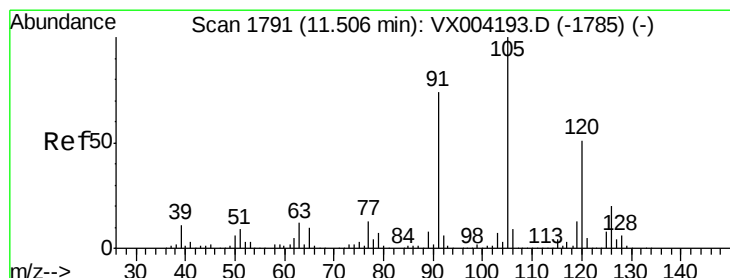
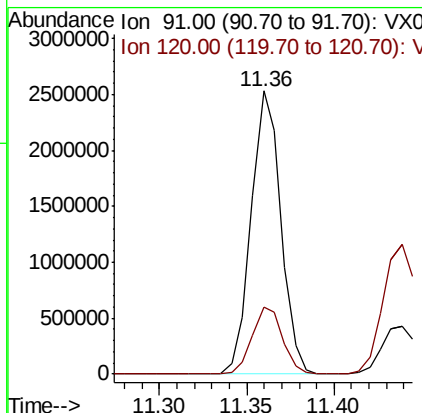
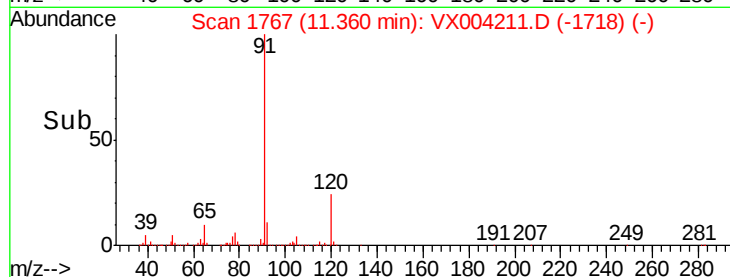
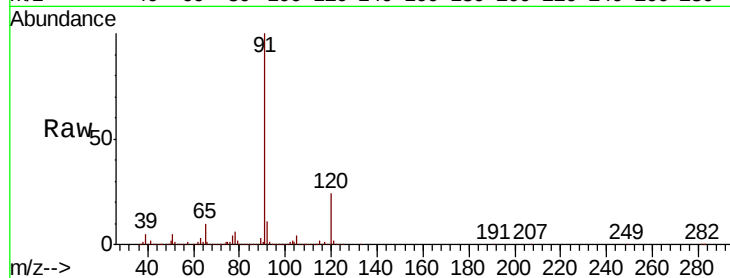
FL-0546

Tot Ion: 91 Resp: 2991362

Ion Ratio Lower Upper

91 100

120 24.2 11.9 35.9



#80

1,3,5-Trimethylbenzene

Concen: 216.03 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX004211.D

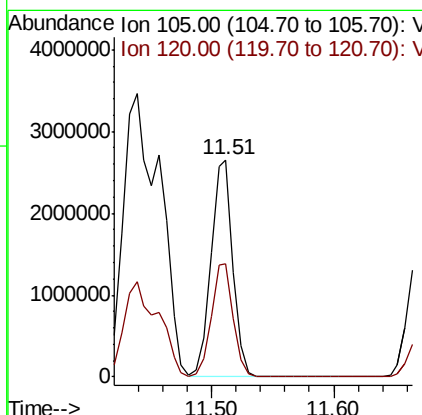
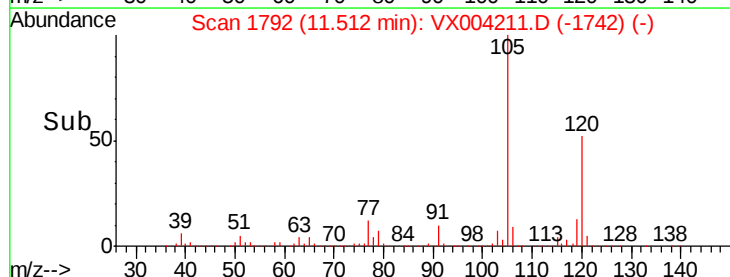
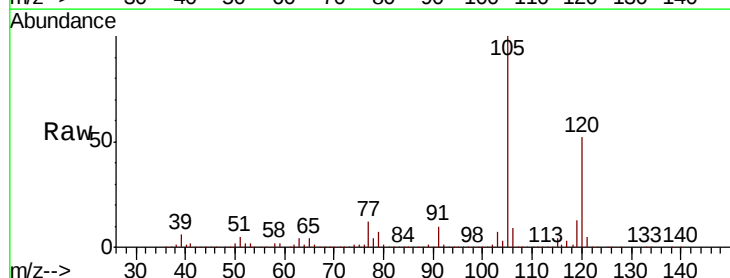
Acq: 22 Aug 2018 20:50

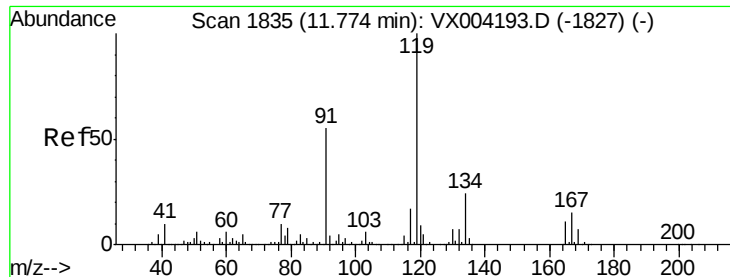
Tgt Ion:105 Resp: 3308342

Ion Ratio Lower Upper

105 100

120 52.2 25.6 76.8

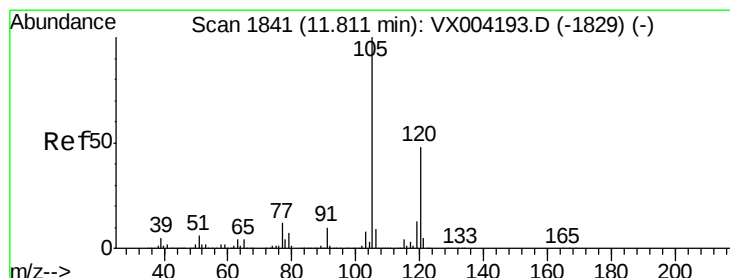
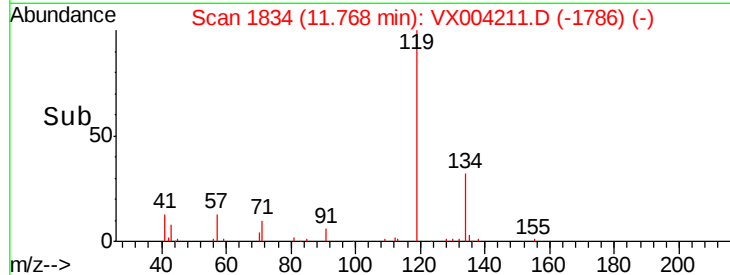
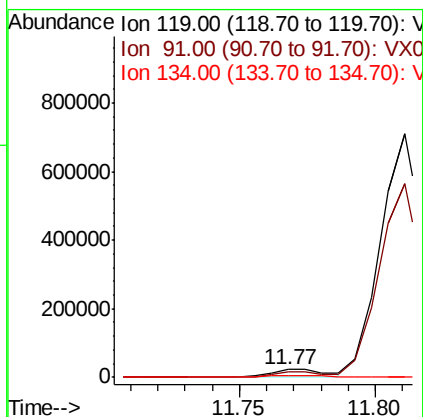
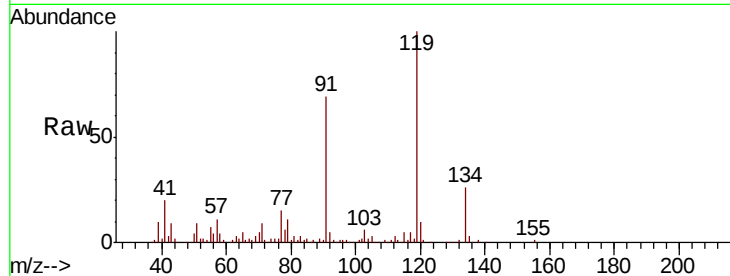




#83
 tert-Butylbenzene
 Concen: 2.11 ug/l
 RT: 11.77 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: VX004211.D
 Acq: 22 Aug 2018 20:50

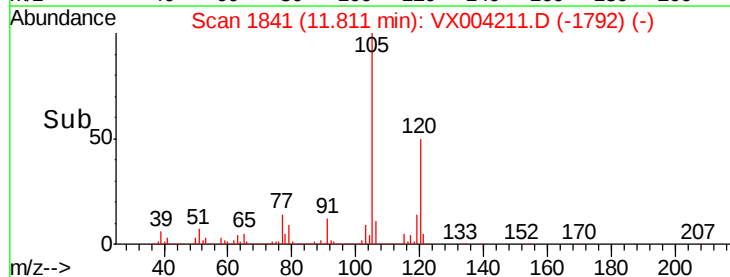
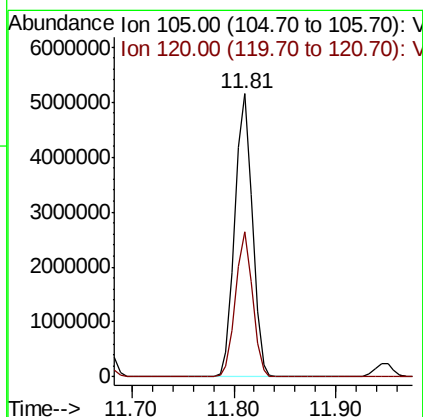
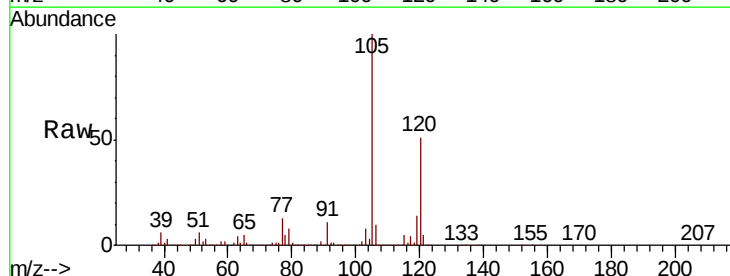
Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0546

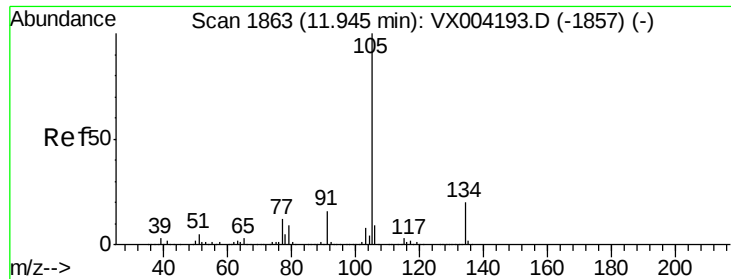
Tot Ion:119 Resp: 32458
 Ion Ratio Lower Upper
 119 100
 91 0.0 27.0 81.0#
 134 24.9 11.7 35.1



#84
 1,2,4-Trimethylbenzene
 Concen: 384.79 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX004211.D
 Acq: 22 Aug 2018 20:50

Tgt Ion:105 Resp: 6048951
 Ion Ratio Lower Upper
 105 100
 120 49.8 23.2 69.6





#85

sec-Butylbenzene

Concen: 17.15 ug/l

RT: 11.94 min Scan# 1863

Delta R.T. -0.00 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

Instrument :

MSVOA_X

ClientSampled :

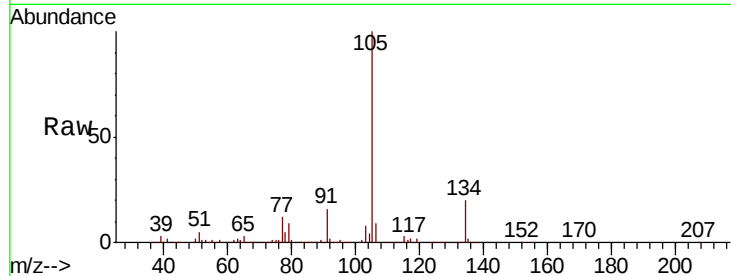
FL-0546

Tot Ion:105 Resp: 313709

Ion Ratio Lower Upper

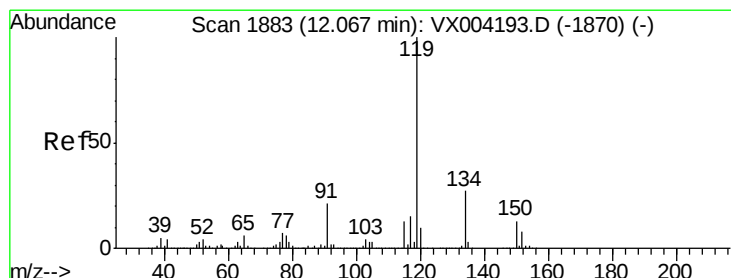
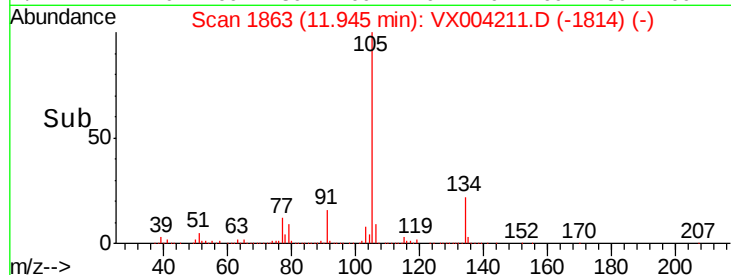
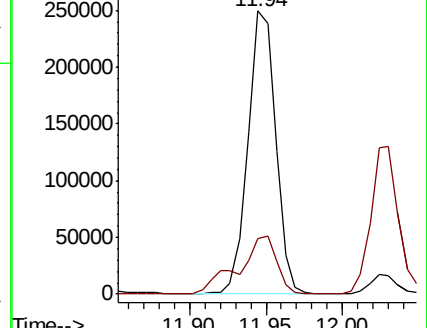
105 100

134 28.6 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.67 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VX004211.D

Acq: 22 Aug 2018 20:50

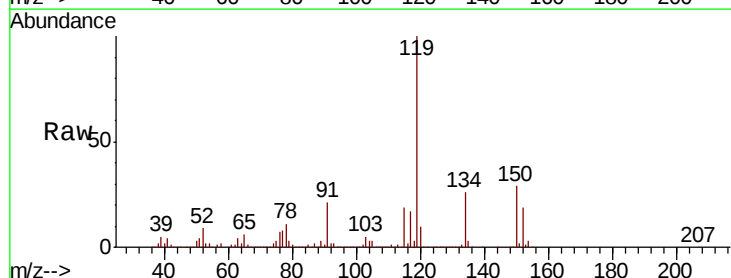
Tgt Ion:119 Resp: 338785

Ion Ratio Lower Upper

119 100

134 26.2 13.4 40.2

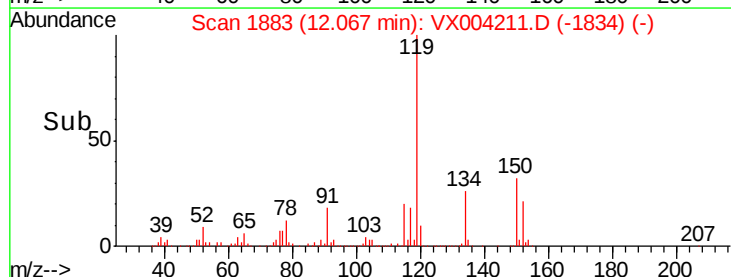
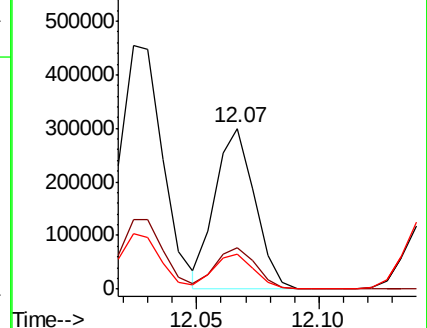
91 21.8 10.9 32.7

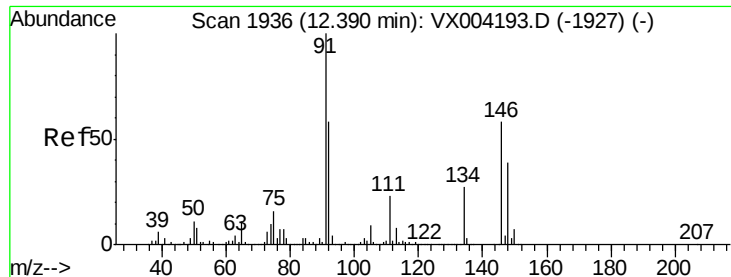


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

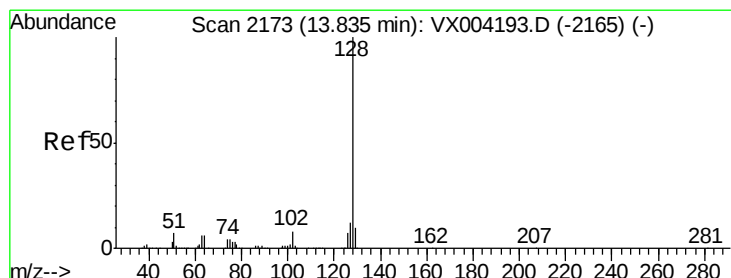
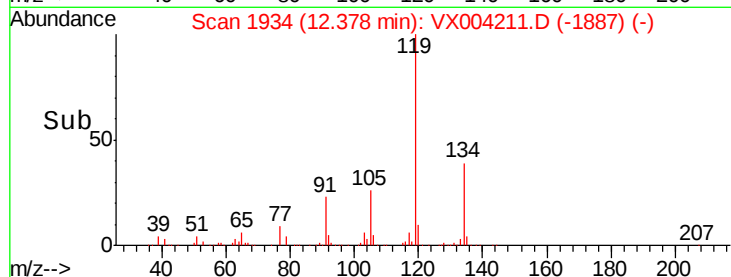
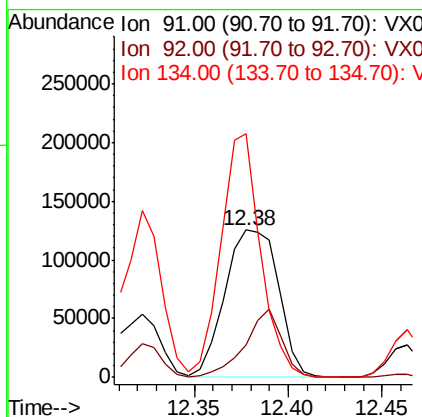
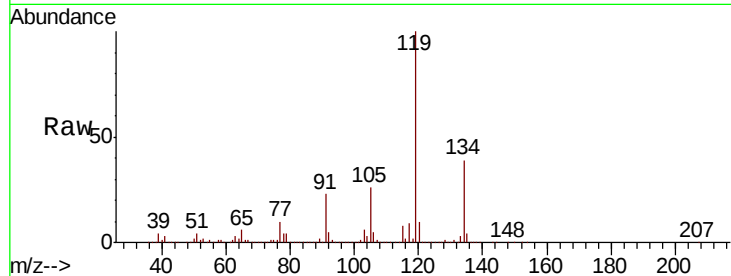




#89
n-Butylbenzene
Concen: 18.40 ug/l
RT: 12.38 min Scan# 1934
Delta R.T. -0.01 min
Lab File: VX004211.D
Acq: 22 Aug 2018 20:50

Instrument :
MSVOA_X
ClientSampled :
FL-0546

Tot Ion: 91 Resp: 245265
Ion Ratio Lower Upper
91 100
92 32.1 27.3 81.9
134 122.9 13.6 40.7#



#95
Naphthalene
Concen: 23.67 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. -0.00 min
Lab File: VX004211.D
Acq: 22 Aug 2018 20:50

Tgt Ion:128 Resp: 434776
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.2
129 11.9 8.6 12.8

