

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062419\
 Data File : VX010406.D
 Acq On : 24 Jun 2019 12:31
 Operator : JC/SP
 Sample : K3499-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TWP-B-6

Quant Time: Jun 25 03:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	290244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	442024	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	405499	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	199971	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	133971	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
35) Dibromofluoromethane	5.50	113	135254	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
50) Toluene-d8	8.71	98	527948	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	11.13	95	184857	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	

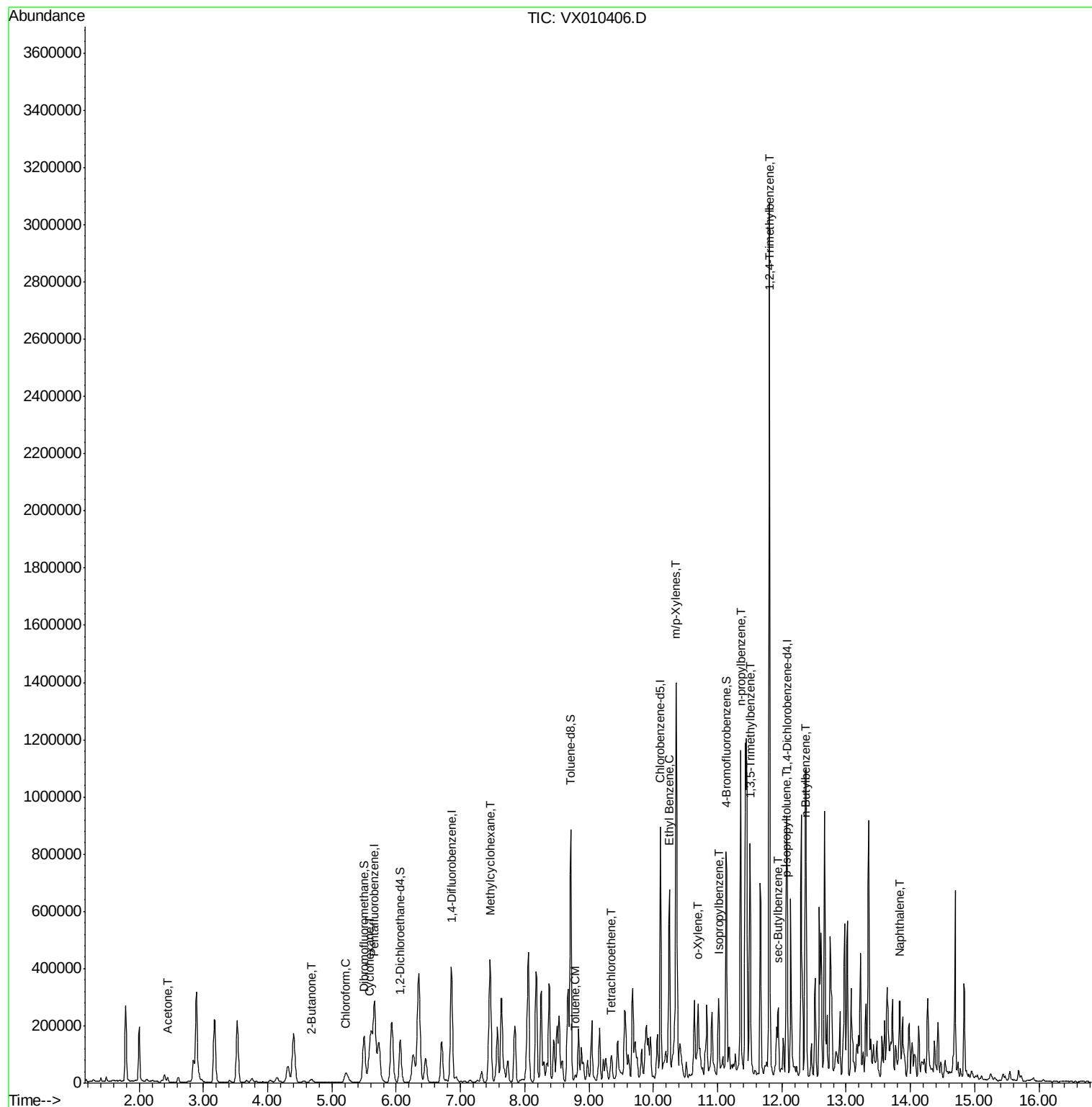
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.44	43	16718	12.258	ug/l	91
25) 2-Butanone	4.67	43	18660	9.327	ug/l	98
30) Chloroform	5.21	83	26135	5.627	ug/l	94
31) Cyclohexane	5.59	56	89203	22.693	ug/l	87
39) Methylcyclohexane	7.46	83	203464	44.067	ug/l	95
52) Toluene	8.79	92	7705	1.069	ug/l	96
64) Tetrachloroethene	9.34	164	2588	0.789	ug/l #	82
67) Ethyl Benzene	10.25	91	316956	22.806	ug/l	99
68) m/p-Xylenes	10.36	106	323717	60.113	ug/l	99
69) o-Xylene	10.69	106	56422	10.654	ug/l	97
73) Isopropylbenzene	11.02	105	139694	10.305	ug/l	99
78) n-propylbenzene	11.36	91	692819	46.504	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	341953	30.600	ug/l	100
84) 1,2,4-Trimethylbenzene	11.80	105	1313756	117.014	ug/l	98
85) sec-Butylbenzene	11.94	105	95720	7.268	ug/l	95
86) p-Isopropyltoluene	12.06	119	38049	3.124	ug/l	96
89) n-Butylbenzene	12.38	91	164511	15.893	ug/l #	23
95) Naphthalene	13.83	128	170025	12.150	ug/l	97

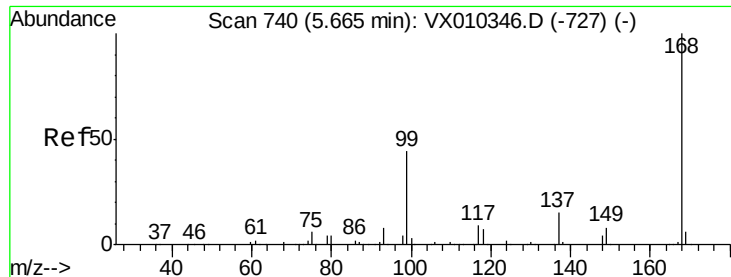
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

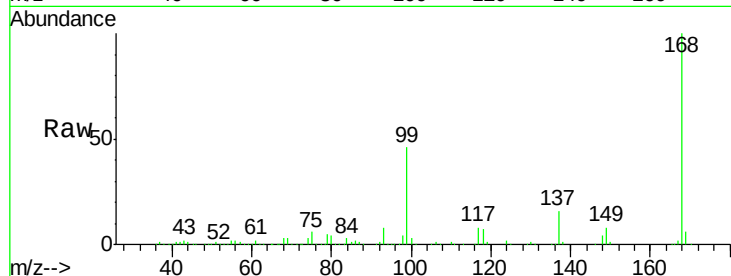
TWP-B-6

Tot Ion:168 Resp: 290244

Ion Ratio Lower Upper

168 100

99 45.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

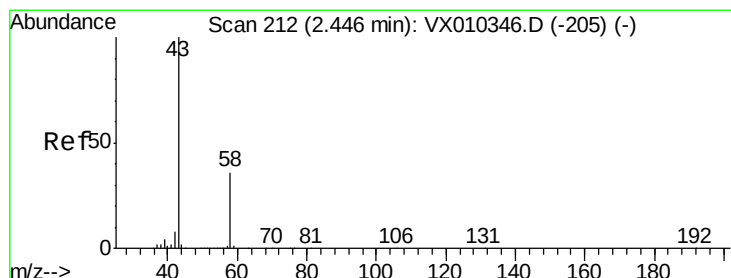
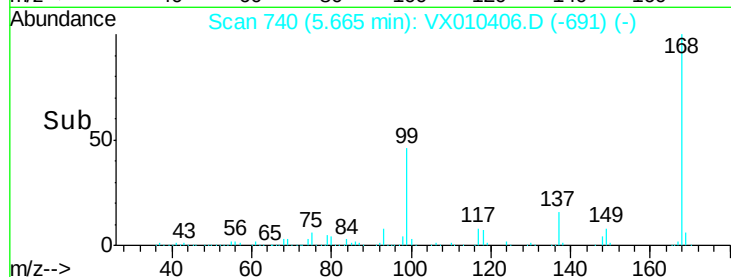
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#16

Acetone

Concen: 12.258 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010406.D

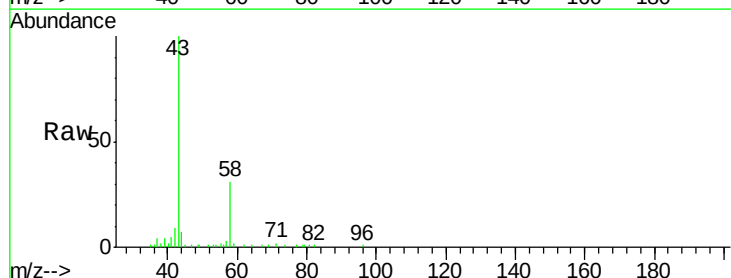
Acq: 24 Jun 2019 12:31

Tgt Ion: 43 Resp: 16718

Ion Ratio Lower Upper

43 100

58 30.9 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

10000

8000

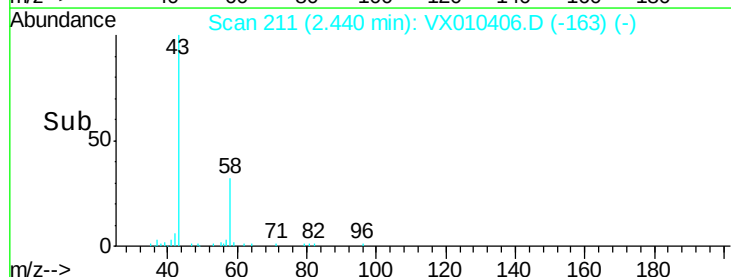
6000

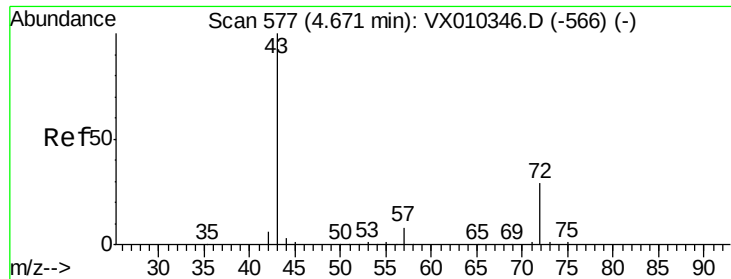
4000

2000

0

Time--> 2.40 2.45 2.50





#25

2-Butanone

Concen: 9.327 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampled :

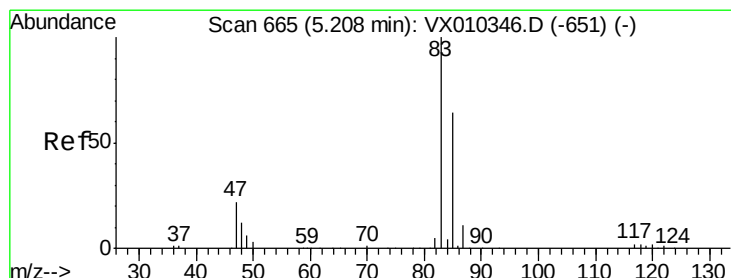
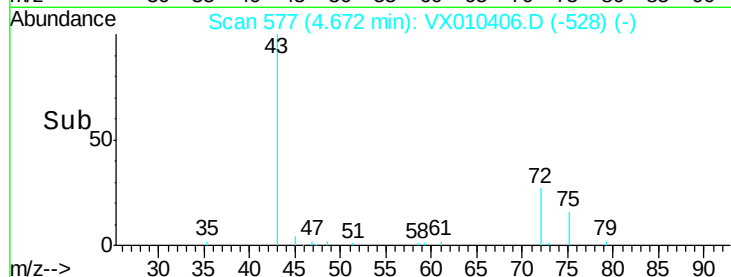
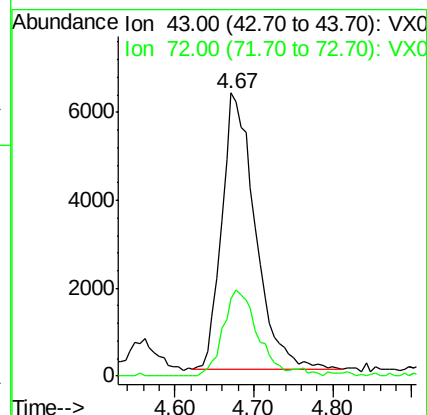
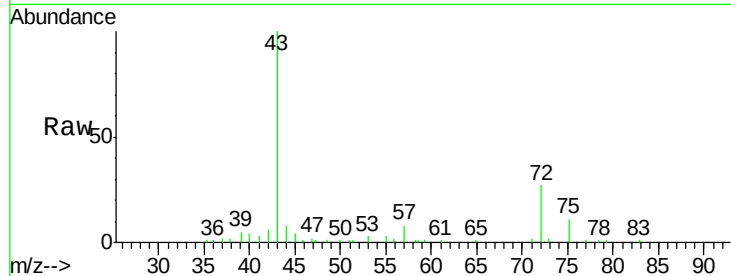
TWP-B-6

Tot Ion: 43 Resp: 18660

Ion Ratio Lower Upper

43 100

72 28.1 23.3 34.9



#30

Chloroform

Concen: 5.627 ug/l

RT: 5.21 min Scan# 665

Delta R.T. 0.00 min

Lab File: VX010406.D

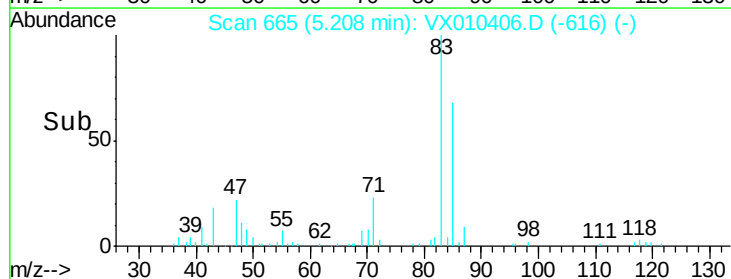
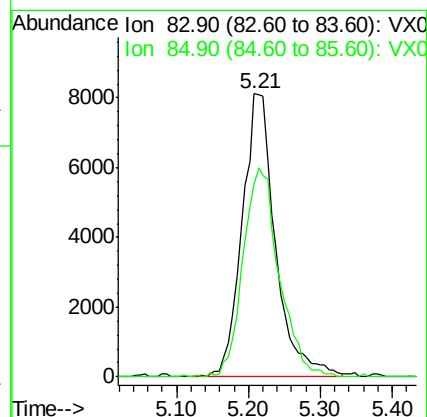
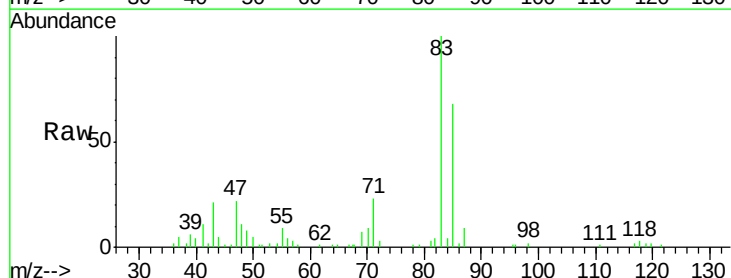
Acq: 24 Jun 2019 12:31

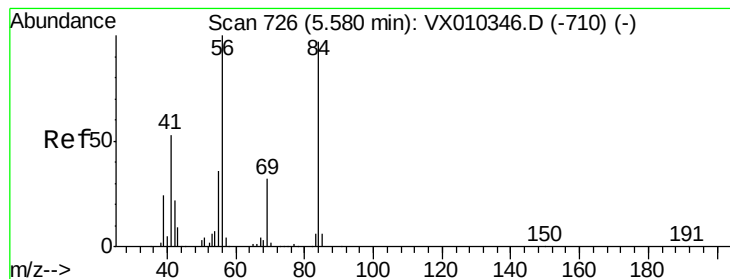
Tgt Ion: 83 Resp: 26135

Ion Ratio Lower Upper

83 100

85 68.1 50.9 76.3





#31

Cyclohexane

Concen: 22.693 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

TWP-B-6

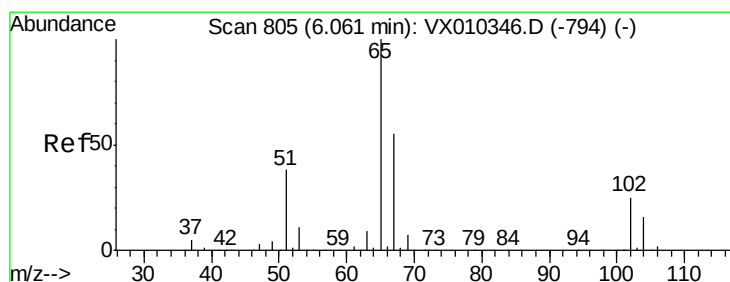
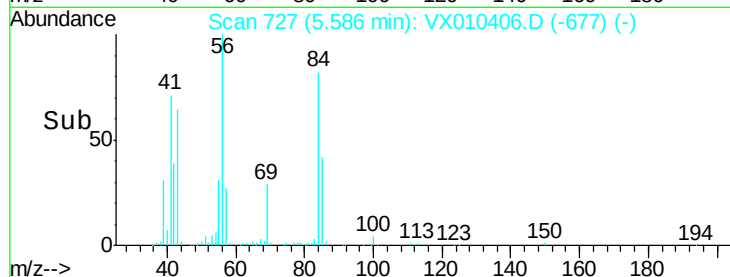
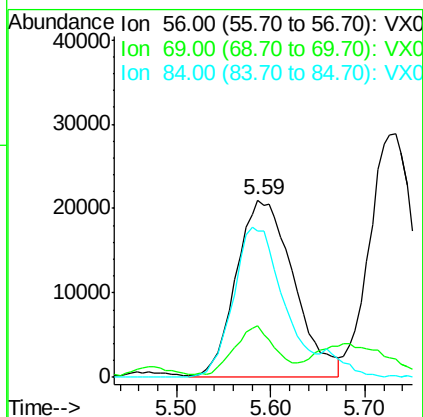
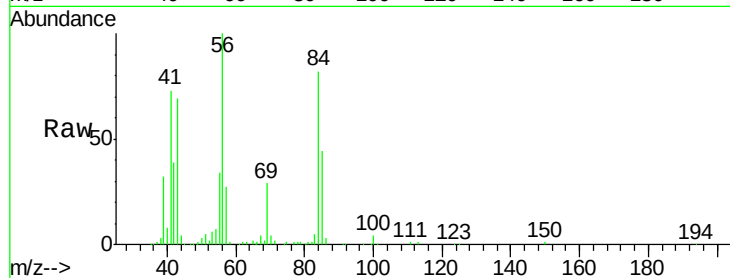
Tot Ion: 56 Resp: 89203

Ion Ratio Lower Upper

56 100

69 27.8 25.9 38.9

84 82.5 78.0 117.0



#33

1,2-Dichloroethane-d4

Concen: 49.230 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010406.D

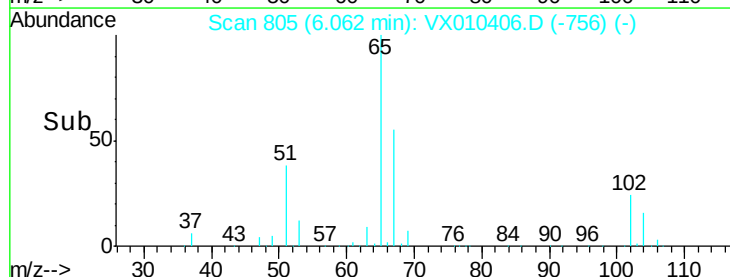
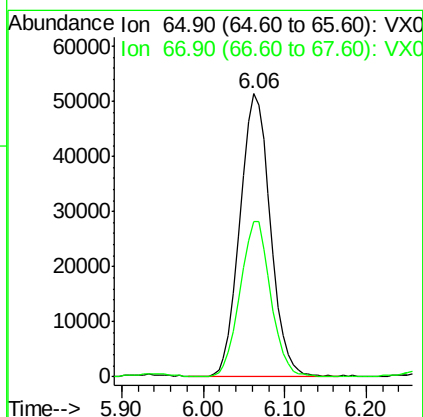
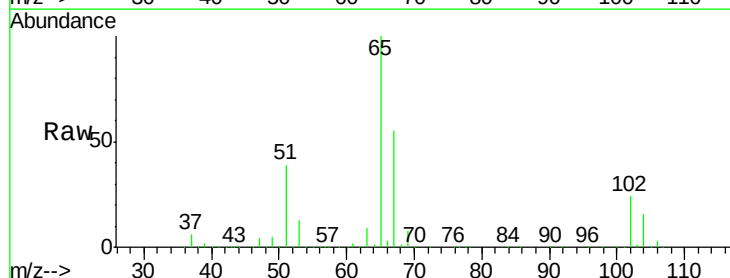
Acq: 24 Jun 2019 12:31

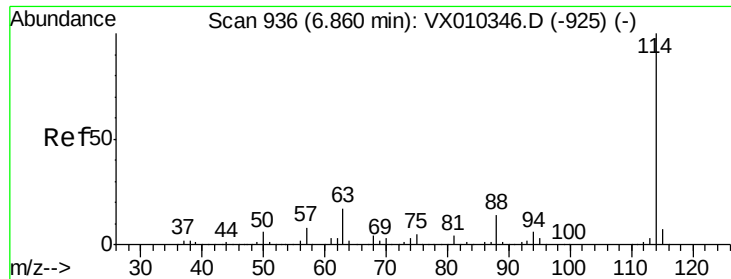
Tgt Ion: 65 Resp: 133971

Ion Ratio Lower Upper

65 100

67 54.3 0.0 110.2

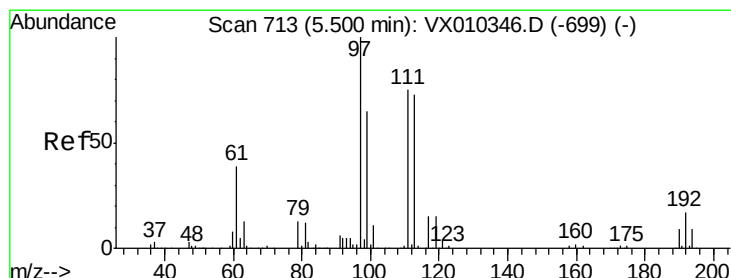
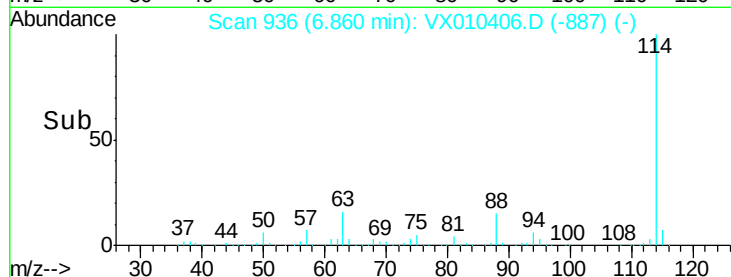
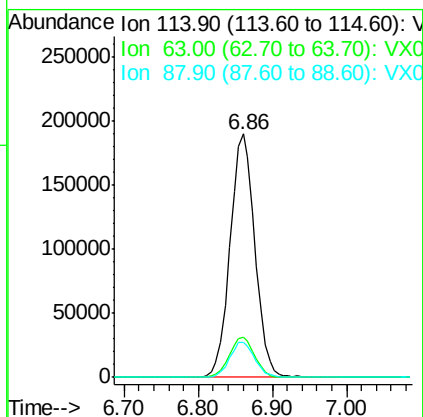
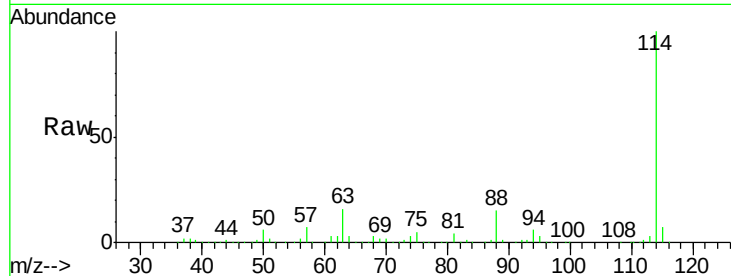




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010406.D
 Acq: 24 Jun 2019 12:31

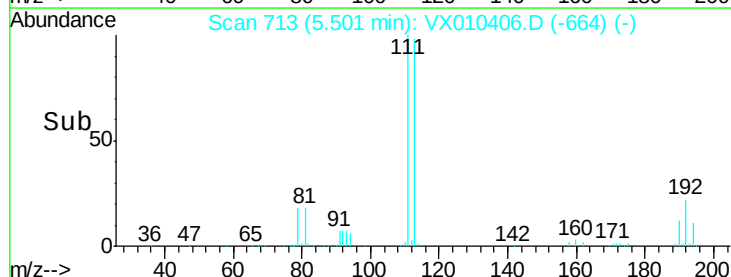
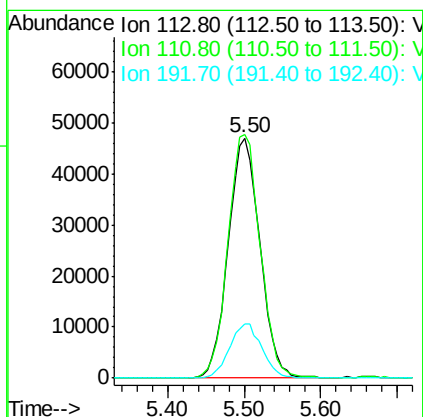
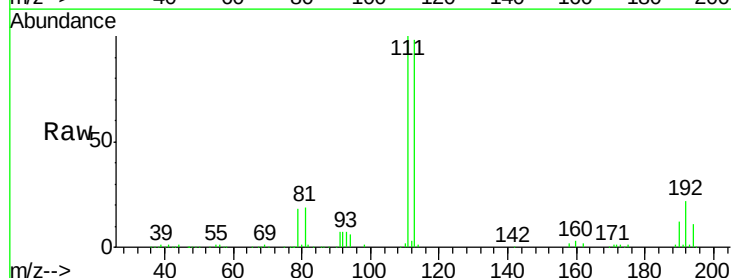
Instrument :
 MSVOA_X
 ClientSampleId :
 TWP-B-6

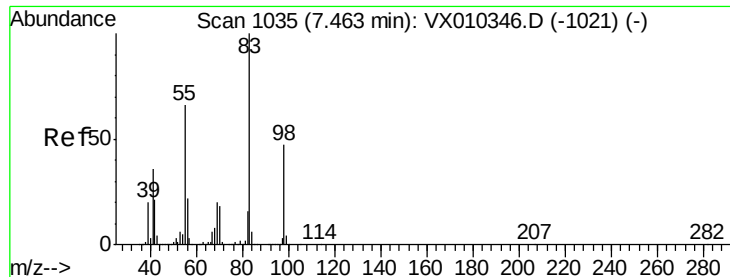
Tot Ion:114 Resp: 442024
 Ion Ratio Lower Upper
 114 100
 63 16.4 0.0 33.8
 88 14.6 0.0 27.6



#35
 Dibromofluoromethane
 Concen: 50.011 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010406.D
 Acq: 24 Jun 2019 12:31

Tgt Ion:113 Resp: 135254
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.2 121.8
 192 23.1 18.6 27.8

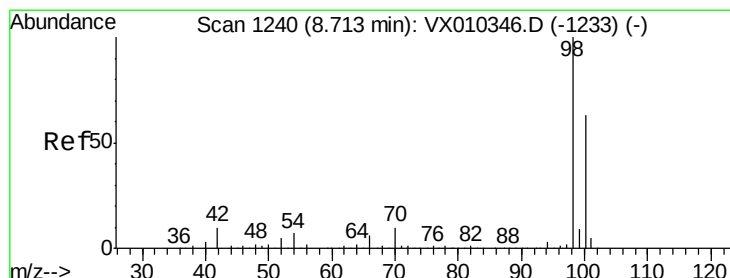
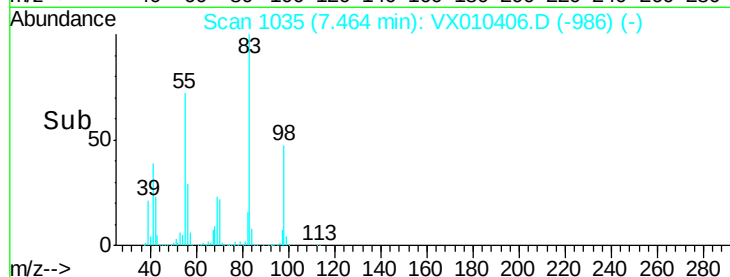
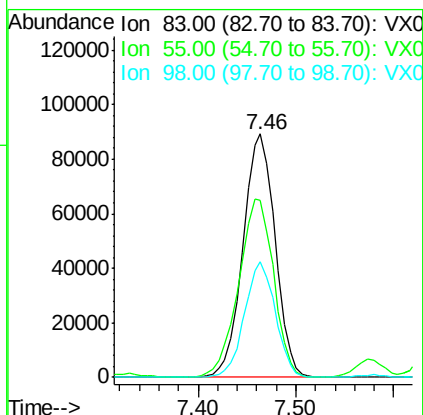
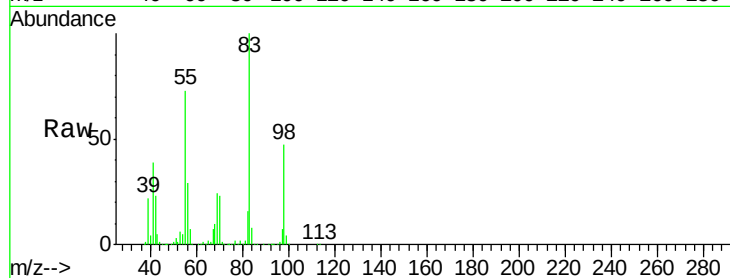




#39
Methylvlcyclohexane
Concen: 44.067 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

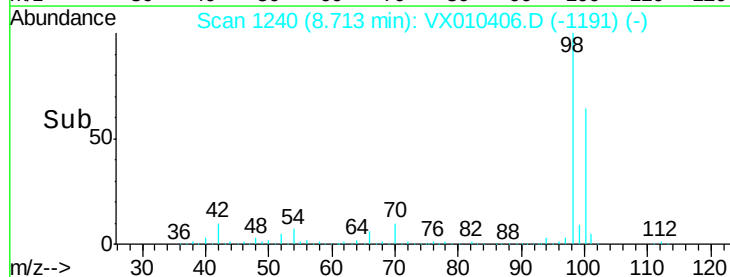
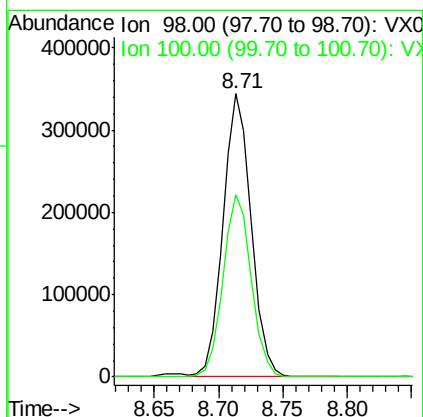
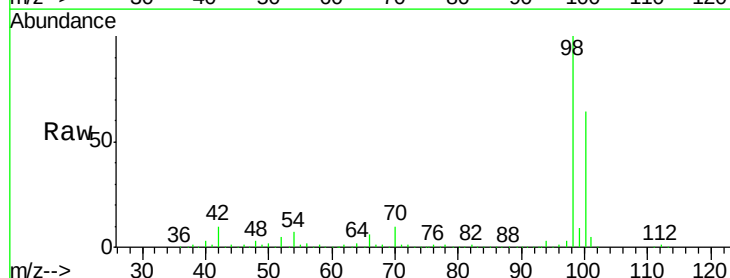
Instrument :
MSVOA_X
ClientSampleId :
TWP-B-6

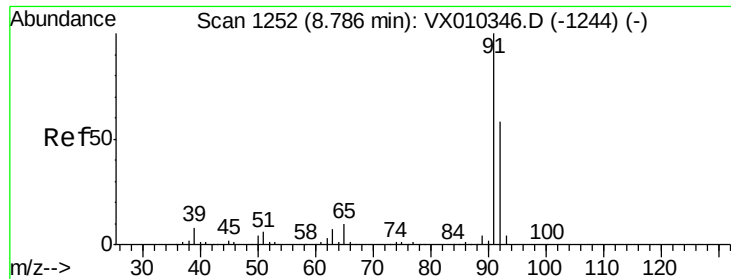
Tot Ion: 83 Resp: 203464
Ion Ratio Lower Upper
83 100
55 72.4 53.0 79.6
98 47.5 37.8 56.8



#50
Toluene-d8
Concen: 51.025 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

Tgt Ion: 98 Resp: 527948
Ion Ratio Lower Upper
98 100
100 64.5 51.6 77.4





#52

Toluene

Concen: 1.069 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

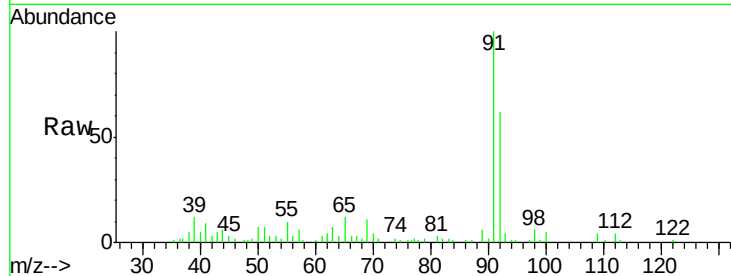
TWP-B-6

Tot Ion: 92 Resp: 7705

Ion Ratio Lower Upper

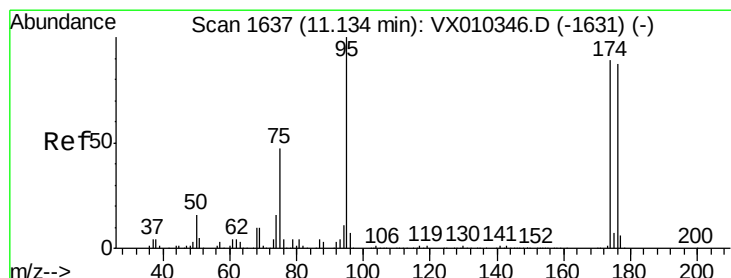
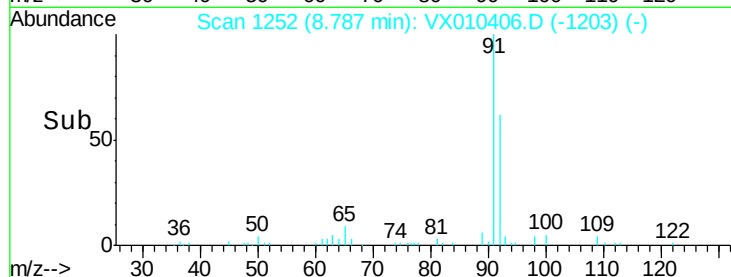
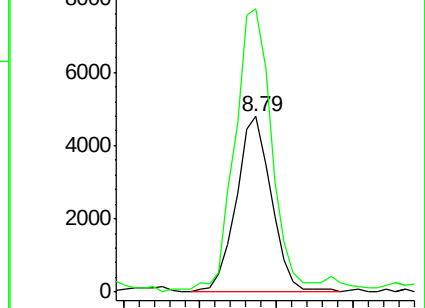
92 100

91 168.6 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 49.487 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

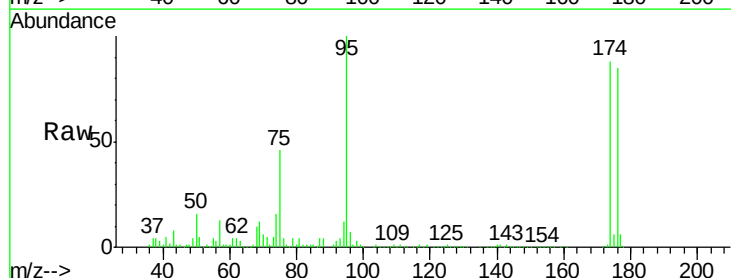
Tgt Ion: 95 Resp: 184857

Ion Ratio Lower Upper

95 100

174 93.7 0.0 187.6

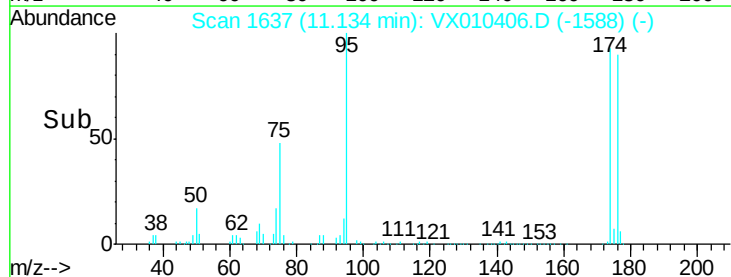
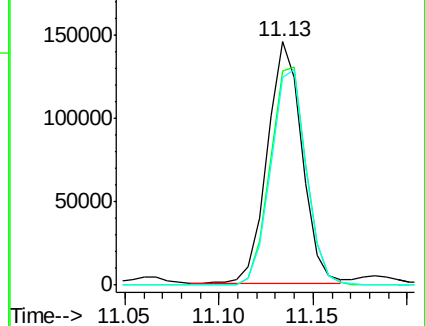
176 91.1 0.0 184.0

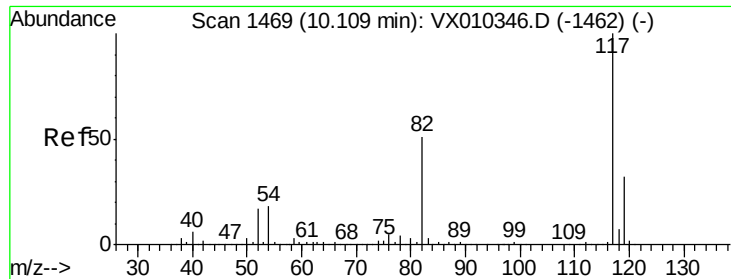


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

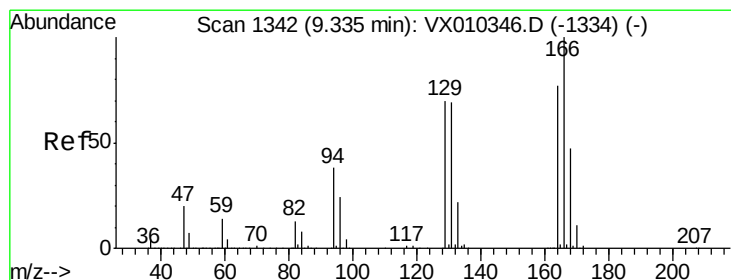
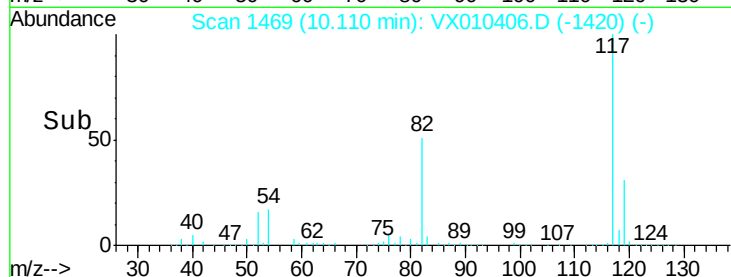
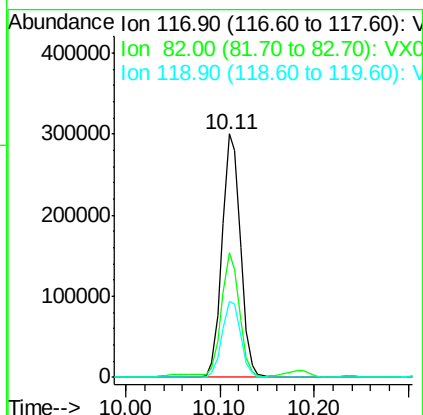
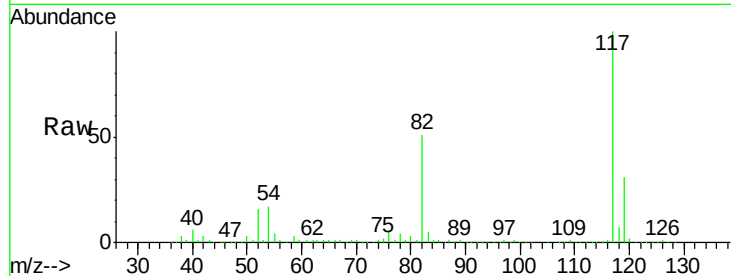




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

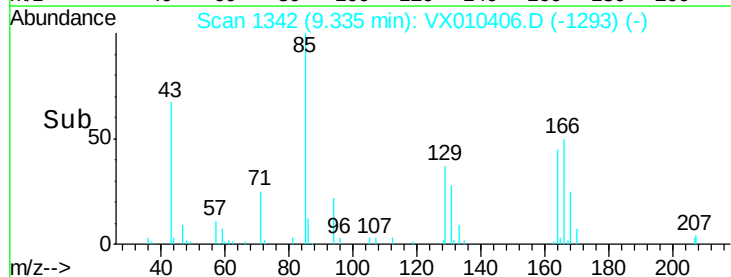
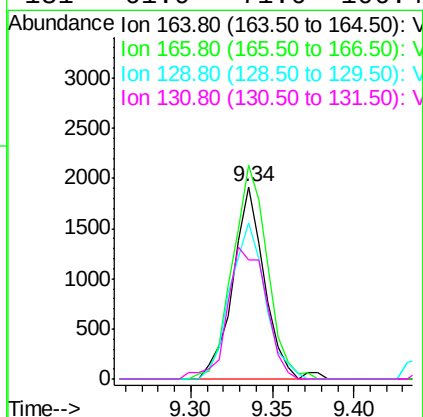
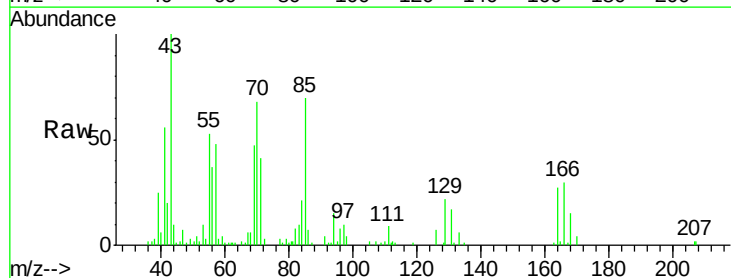
Instrument :
MSVOA_X
ClientSampled :
TWP-B-6

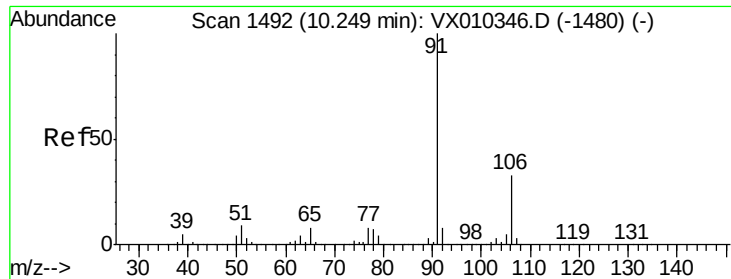
Tot Ion:117 Resp: 405499
Ion Ratio Lower Upper
117 100
82 50.8 41.2 61.8
119 31.4 25.5 38.3



#64
Tetrachloroethene
Concen: 0.789 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

Tgt Ion:164 Resp: 2588
Ion Ratio Lower Upper
164 100
166 111.0 103.6 155.4
129 80.9 73.0 109.4
131 61.9 71.0 106.4#





#67

Ethyl Benzene

Concen: 22.806 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

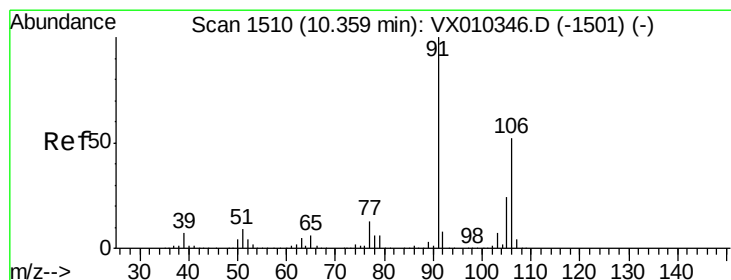
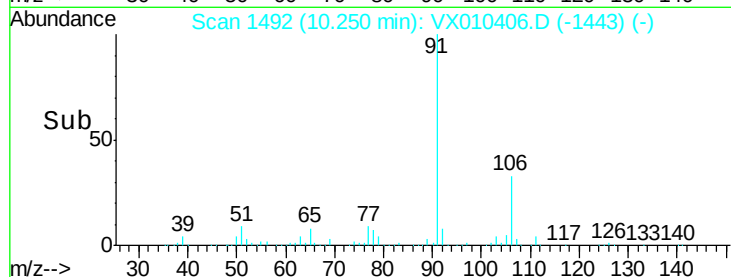
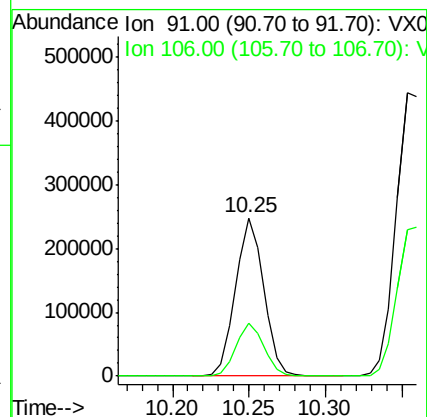
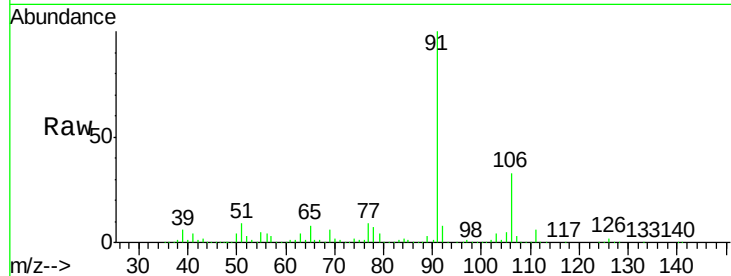
TWP-B-6

Tot Ion: 91 Resp: 316956

Ion Ratio Lower Upper

91 100

106 33.1 26.2 39.2



#68

m/p-Xylenes

Concen: 60.113 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX010406.D

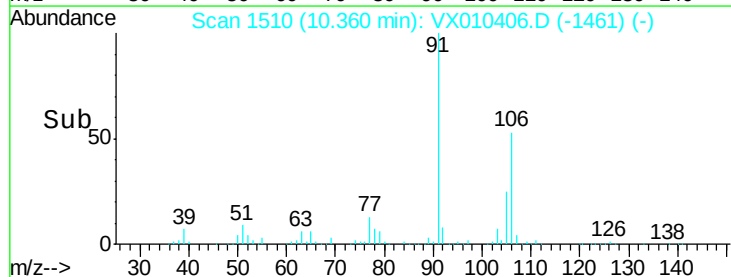
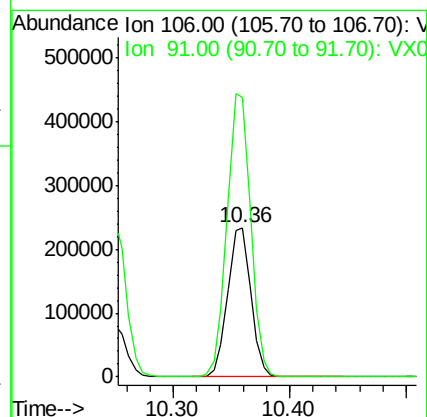
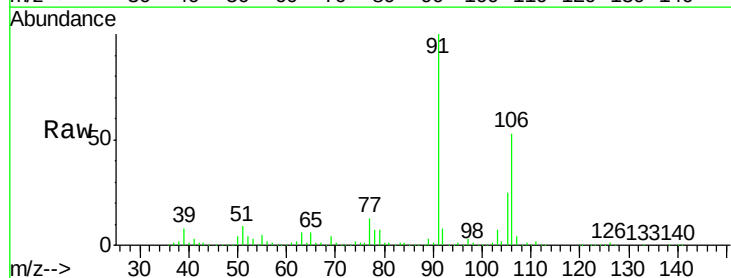
Acq: 24 Jun 2019 12:31

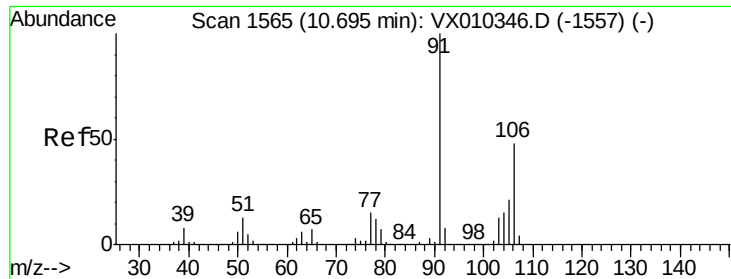
Tgt Ion: 106 Resp: 323717

Ion Ratio Lower Upper

106 100

91 192.1 155.3 232.9

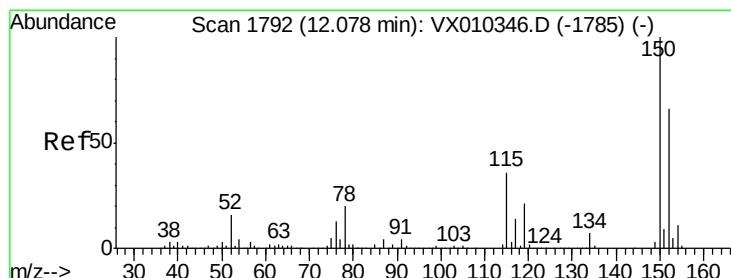
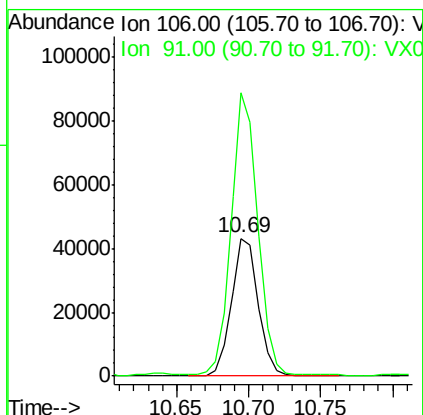
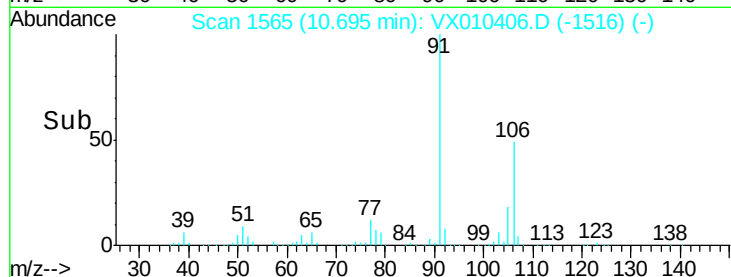
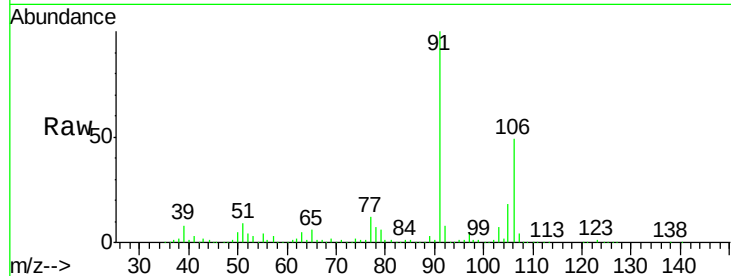




#69
o-Xylene
Concen: 10.654 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

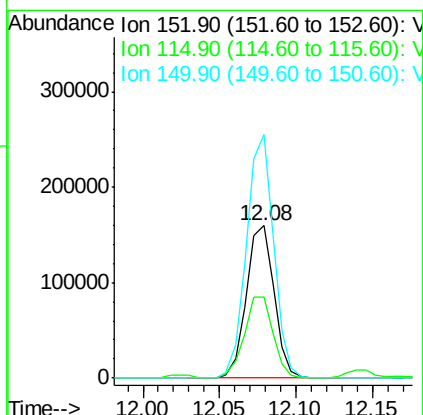
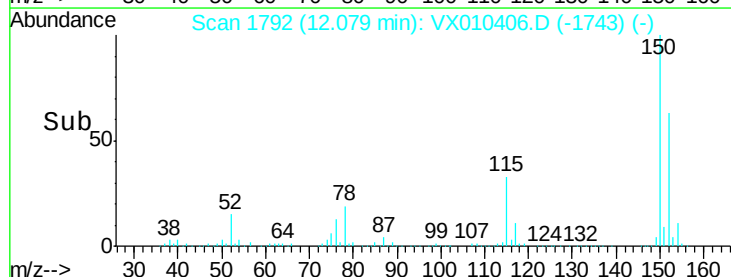
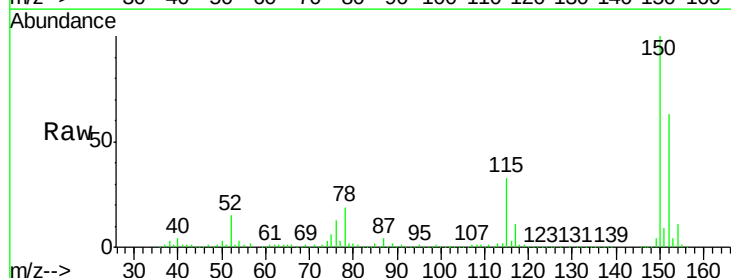
Instrument :
MSVOA_X
ClientSampled :
TWP-B-6

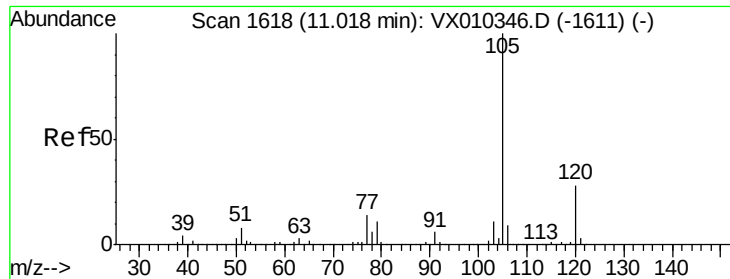
Tot Ion:106 Resp: 56422
Ion Ratio Lower Upper
106 100
91 200.7 102.7 308.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

Tgt Ion:152 Resp: 199971
Ion Ratio Lower Upper
152 100
115 55.6 38.6 115.7
150 157.6 0.0 347.4





#73

Isopropylbenzene

Concen: 10.305 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

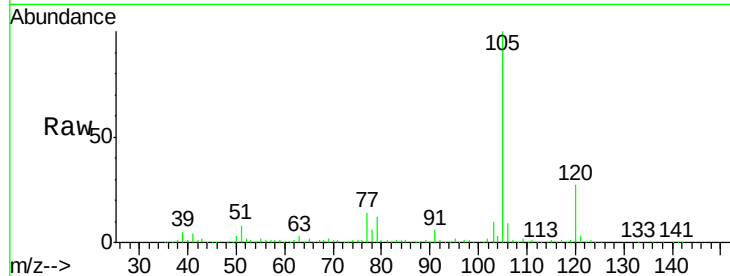
TWP-B-6

Tot Ion:105 Resp: 139694

Ion Ratio Lower Upper

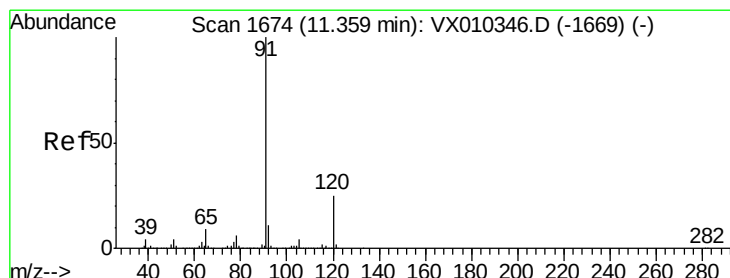
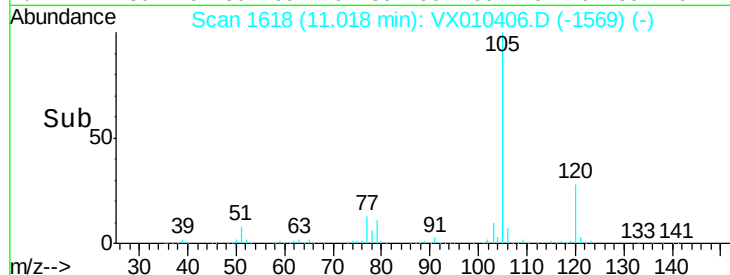
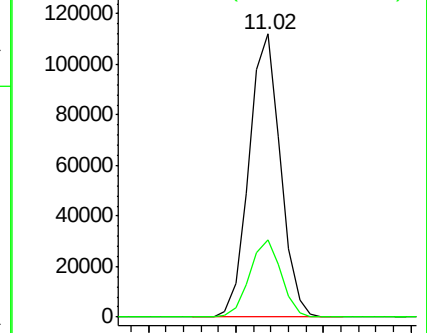
105 100

120 27.5 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 46.504 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010406.D

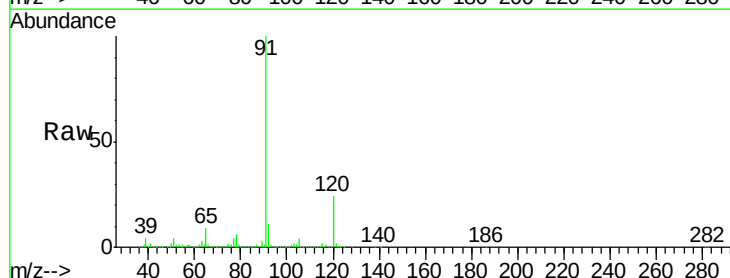
Acq: 24 Jun 2019 12:31

Tgt Ion: 91 Resp: 692819

Ion Ratio Lower Upper

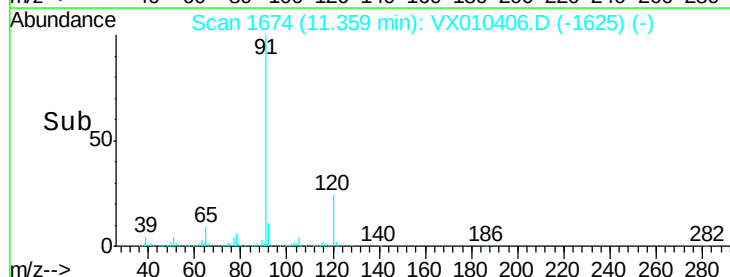
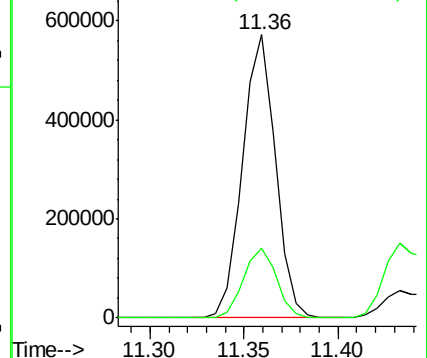
91 100

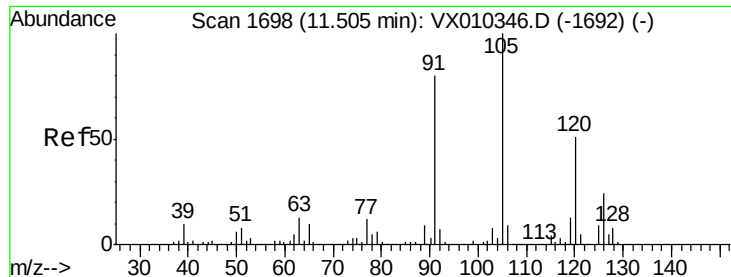
120 24.7 12.4 37.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 30.600 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampled :

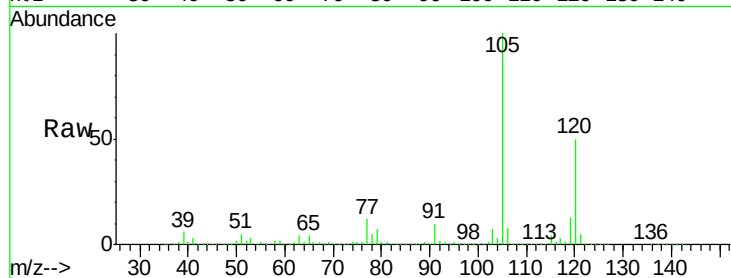
TWP-B-6

Tot Ion:105 Resp: 341953

Ion Ratio Lower Upper

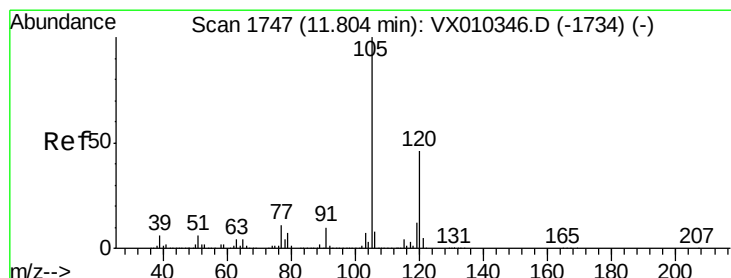
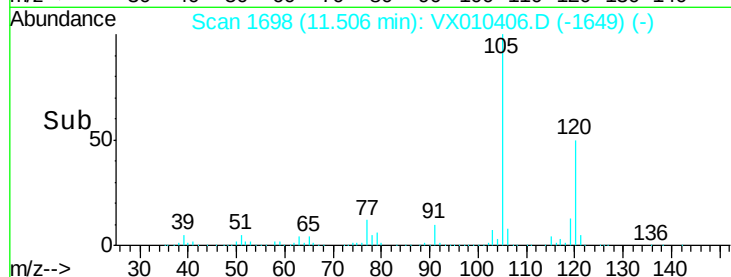
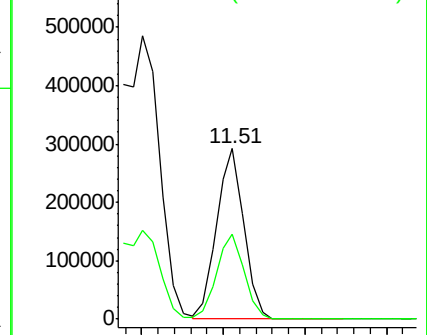
105 100

120 50.3 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 117.014 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX010406.D

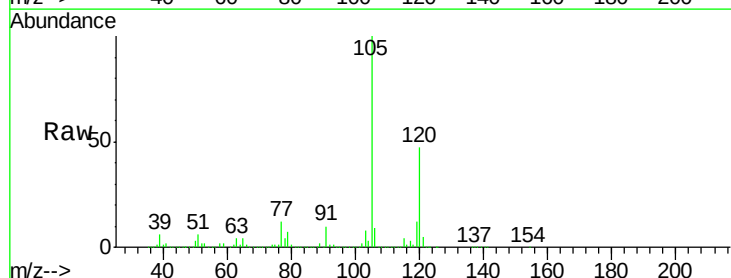
Acq: 24 Jun 2019 12:31

Tgt Ion:105 Resp: 1313756

Ion Ratio Lower Upper

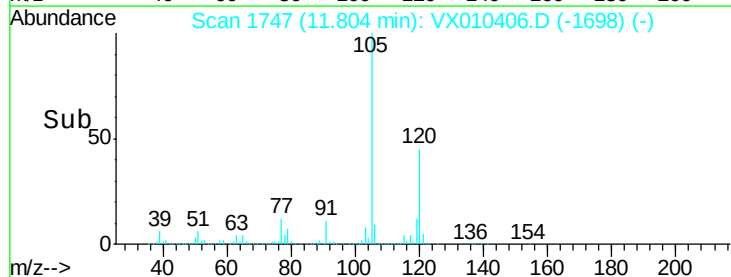
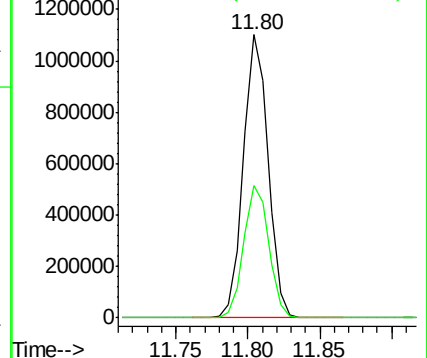
105 100

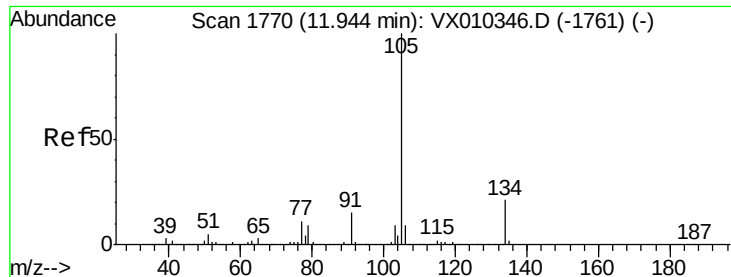
120 47.3 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 7.268 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

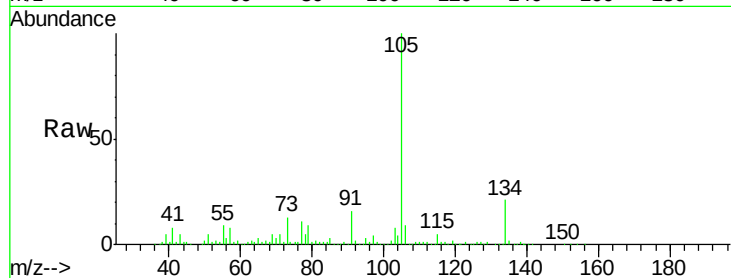
TWP-B-6

Tot Ion:105 Resp: 95720

Ion Ratio Lower Upper

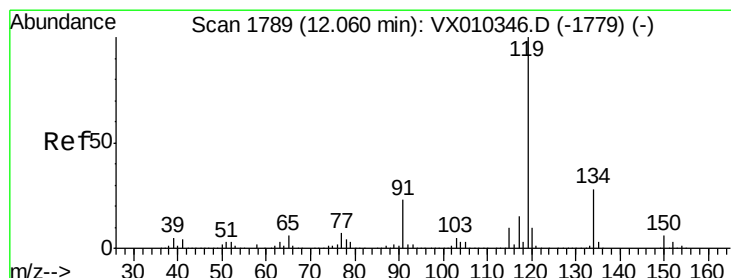
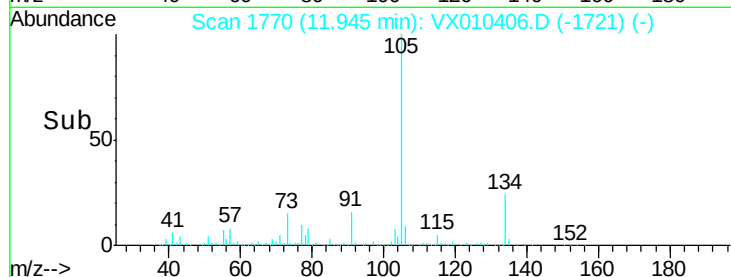
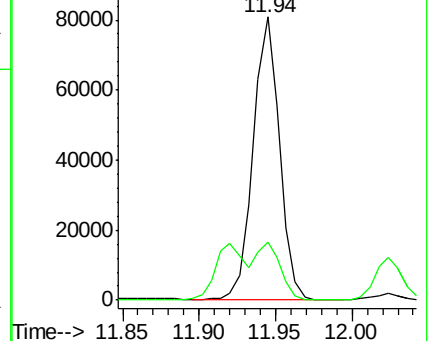
105 100

134 18.9 10.7 31.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 3.124 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

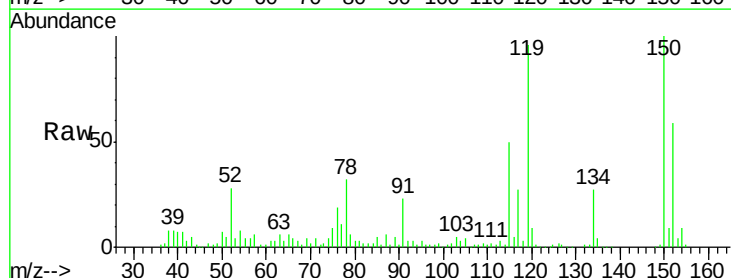
Tgt Ion:119 Resp: 38049

Ion Ratio Lower Upper

119 100

134 28.6 13.7 41.1

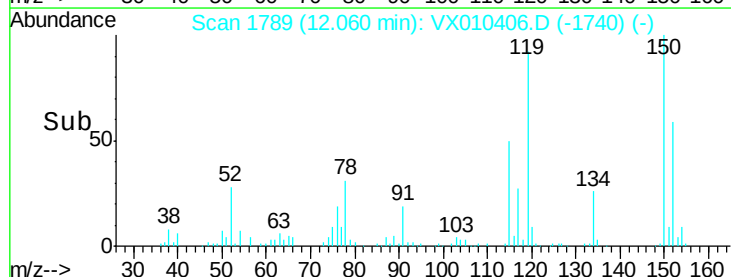
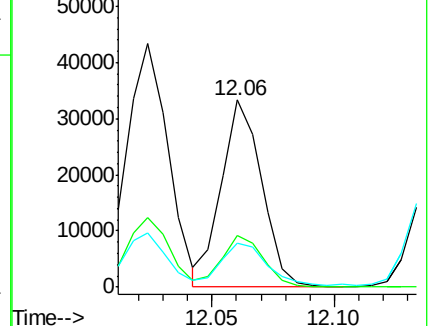
91 25.7 11.3 33.8

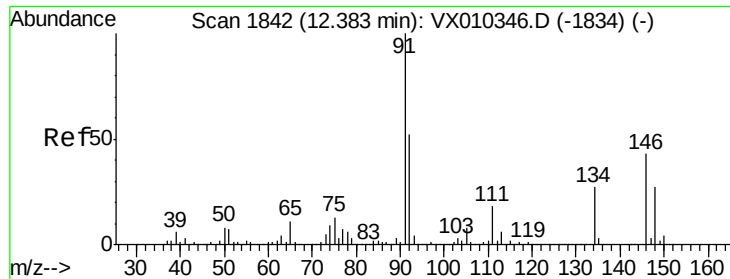


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

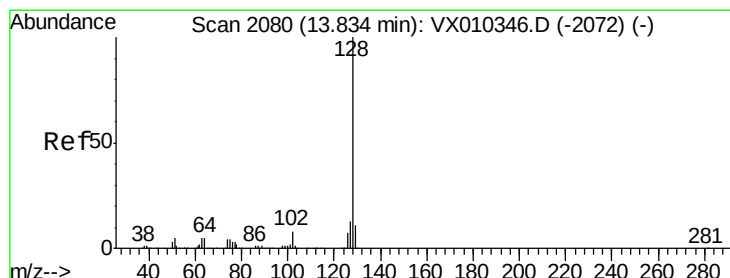
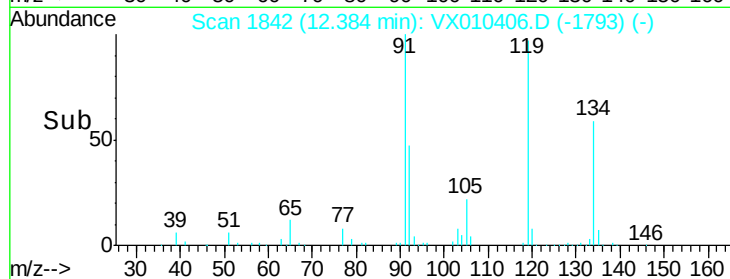
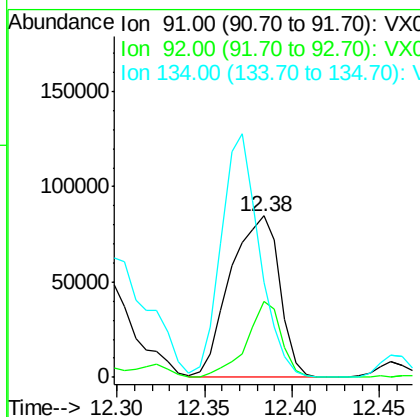
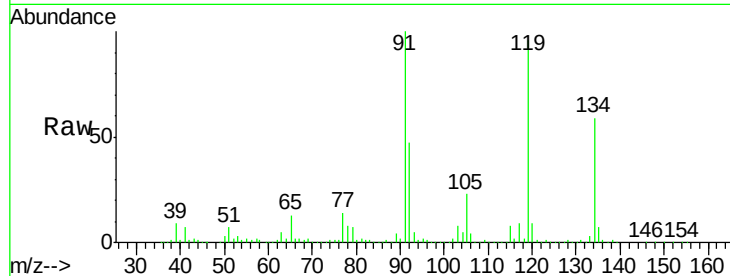




#89
n-Butylbenzene
Concen: 15.893 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

Instrument :
MSVOA_X
ClientSampled :
TWP-B-6

Tot Ion: 91 Resp: 164511
Ion Ratio Lower Upper
91 100
92 33.3 26.2 78.5
134 118.1 14.1 42.4#



#95
Naphthalene
Concen: 12.150 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010406.D
Acq: 24 Jun 2019 12:31

Tgt Ion: 128 Resp: 170025
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 13.0 8.9 13.3

