

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
 Data File : VX010670.D  
 Acq On : 04 Jul 2019 06:18  
 Operator : JC/SP  
 Sample : K3669-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST008MW037-190701

Quant Time: Jul 05 01:41:33 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  | 235563   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 366736   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 334501   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 161825   | 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   | 118047   | 53.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.90% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 110595   | 49.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.58%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 437149   | 50.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.84% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 152548   | 49.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.44%  |          |

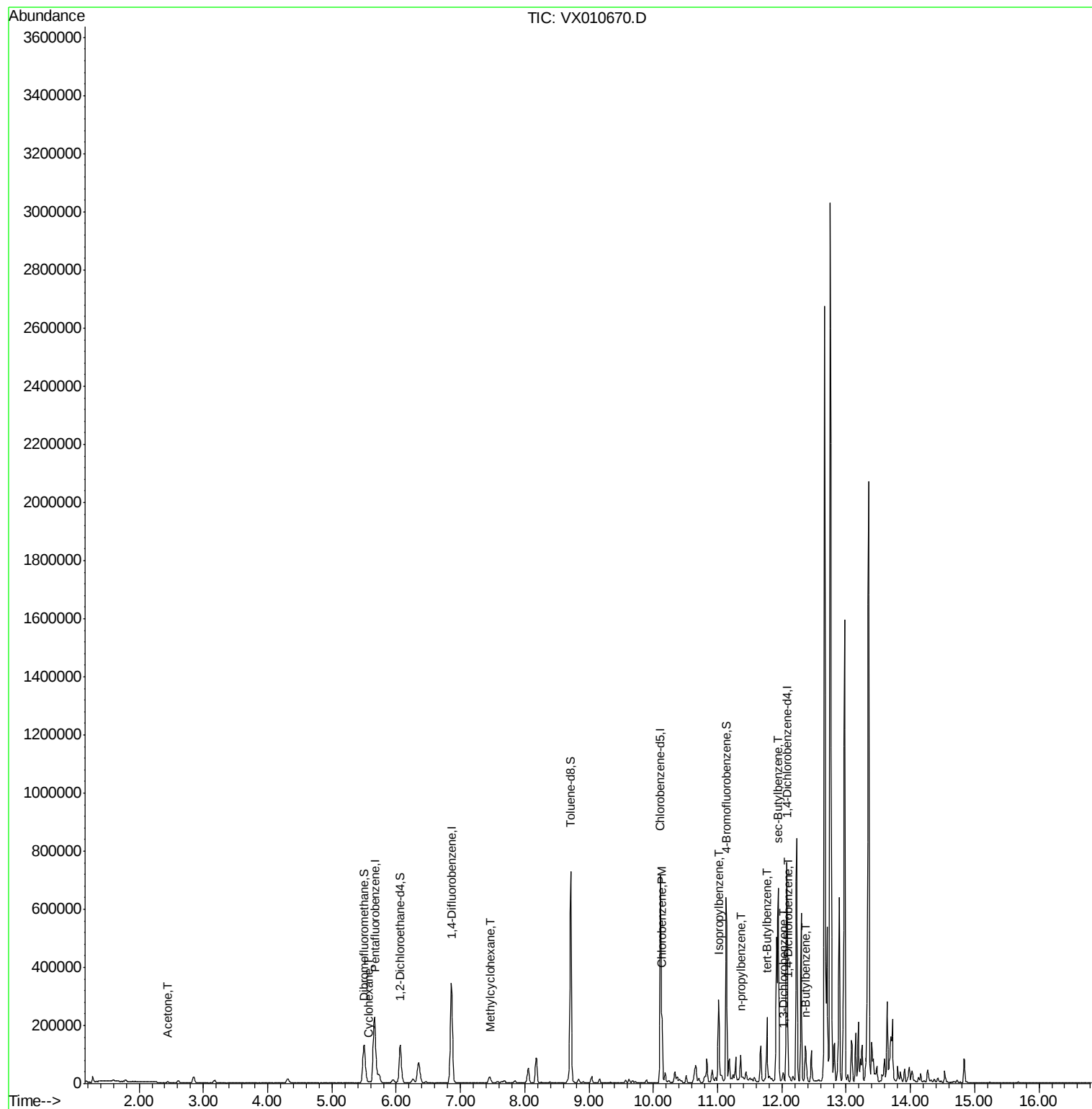
| Target Compounds        | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone             | 2.45  | 43   | 3934     | 3.554  | ug/l   | 95     |
| 31) Cyclohexane         | 5.58  | 56   | 2456     | 0.770  | ug/l # | 77     |
| 39) Methylcyclohexane   | 7.46  | 83   | 8470     | 2.211  | ug/l # | 72     |
| 65) Chlorobenzene       | 10.13 | 112  | 89507    | 13.180 | ug/l   | 100    |
| 73) Isopropylbenzene    | 11.02 | 105  | 148728   | 13.558 | ug/l   | 98     |
| 78) n-propylbenzene     | 11.36 | 91   | 52918    | 4.389  | ug/l   | 99     |
| 83) tert-Butylbenzene   | 11.77 | 119  | 84680    | 9.330  | ug/l   | 91     |
| 85) sec-Butylbenzene    | 11.94 | 105  | 354749   | 33.288 | ug/l   | 94     |
| 87) 1,3-Dichlorobenzene | 12.02 | 146  | 8106     | 1.516  | ug/l   | 98     |
| 88) 1,4-Dichlorobenzene | 12.10 | 146  | 21971    | 4.036  | ug/l   | 95     |
| 89) n-Butylbenzene      | 12.38 | 91   | 20364    | 2.431  | ug/l # | 53     |

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

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Quant Time: Jul 05 01:41:33 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010670.D

Acq: 04 Jul 2019 06:18

Instrument :

MSVOA\_X

ClientSampleId :

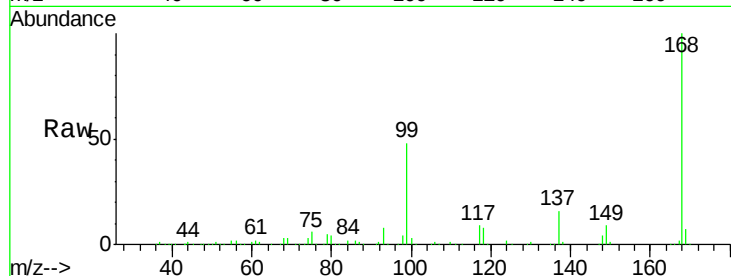
ST008MW037-190701

Tot Ion:168 Resp: 235563

Ion Ratio Lower Upper

168 100

99 48.5 35.5 53.3

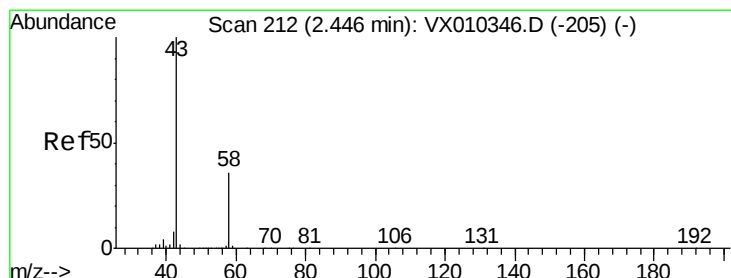
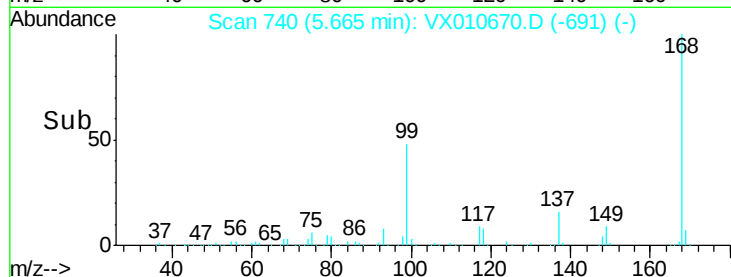


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

Time-->



#16

Acetone

Concen: 3.554 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010670.D

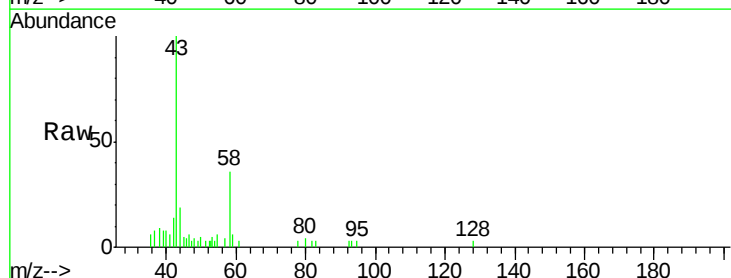
Acq: 04 Jul 2019 06:18

Tgt Ion: 43 Resp: 3934

Ion Ratio Lower Upper

43 100

58 33.2 28.9 43.3

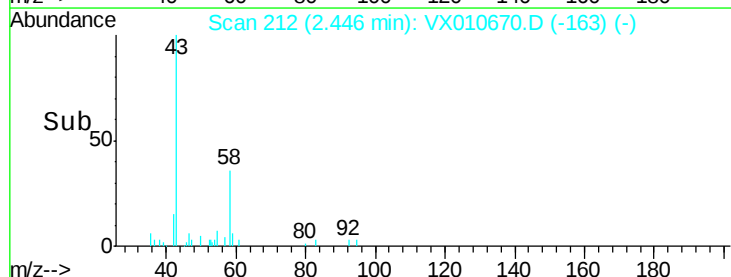


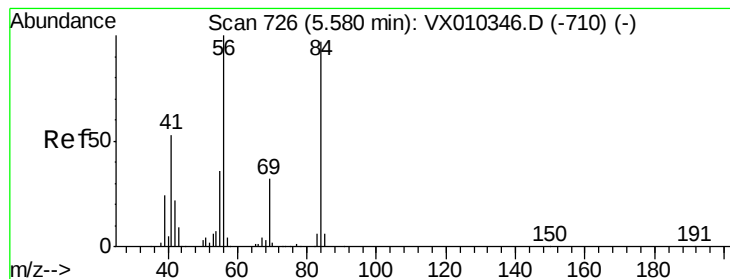
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

Time-->





#31

Cyclohexane

Concen: 0.770 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX010670.D

Acq: 04 Jul 2019 06:18

Instrument :

MSVOA\_X

ClientSampleId :

ST008MW037-190701

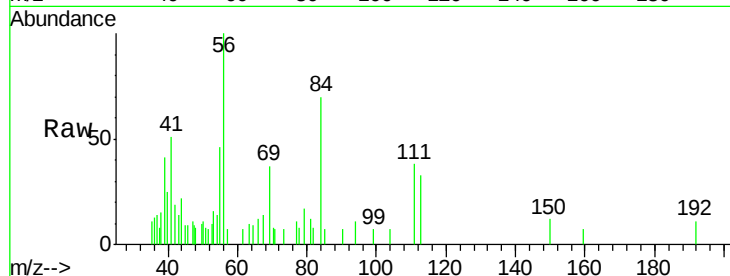
Tot Ion: 56 Resp: 2456

Ion Ratio Lower Upper

56 100

69 27.0 25.9 38.9

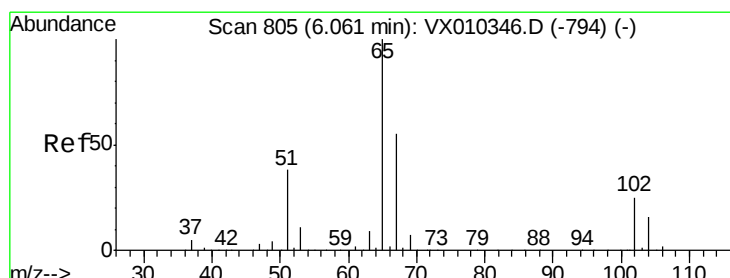
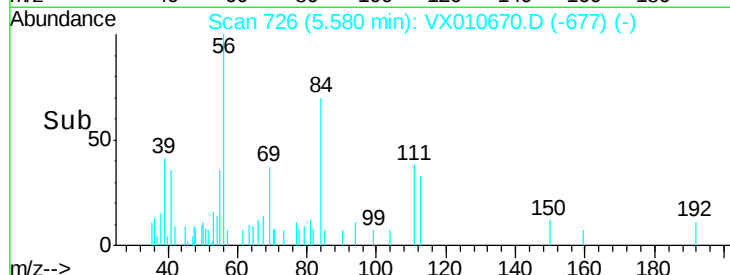
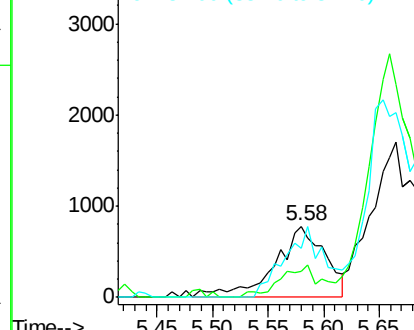
84 69.9 78.0 117.0#



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



#33

1,2-Dichloroethane-d4

Concen: 53.448 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010670.D

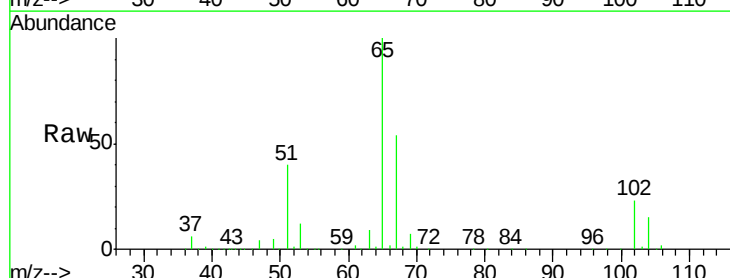
Acq: 04 Jul 2019 06:18

Tgt Ion: 65 Resp: 118047

Ion Ratio Lower Upper

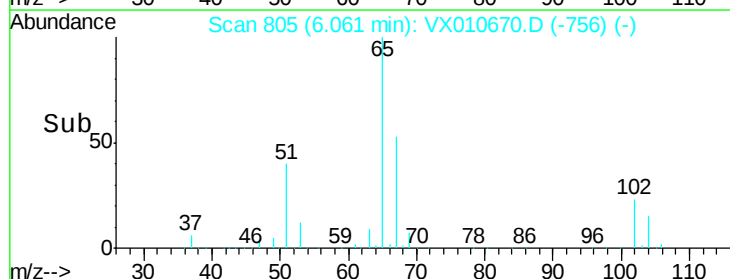
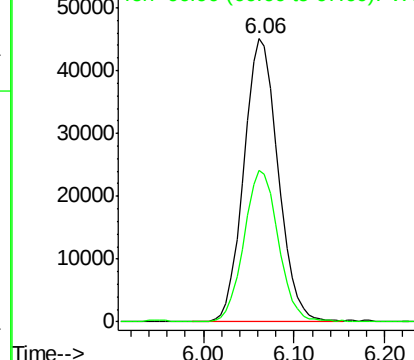
65 100

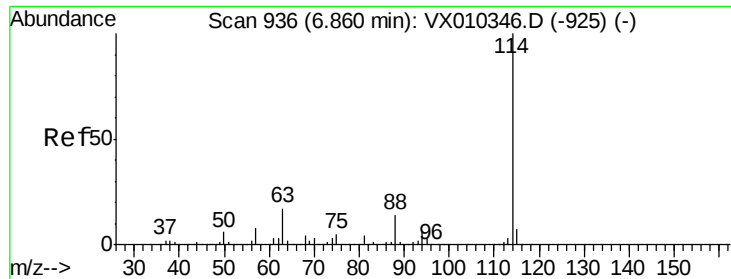
67 53.8 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010670.D

Acq: 04 Jul 2019 06:18

Instrument :

MSVOA\_X

ClientSampleId :

ST008MW037-190701

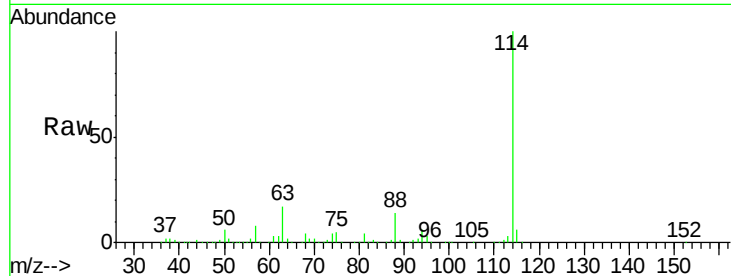
Tot Ion:114 Resp: 366736

Ion Ratio Lower Upper

114 100

63 17.4 0.0 33.8

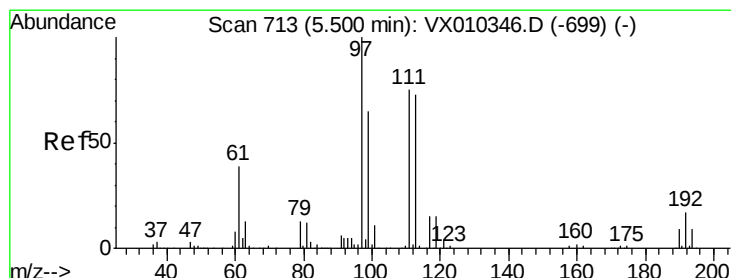
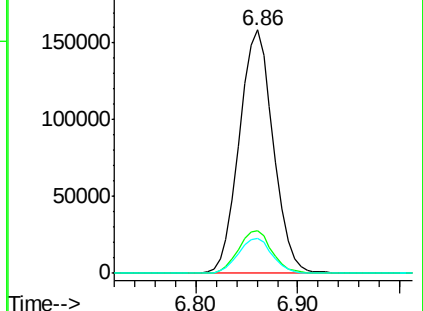
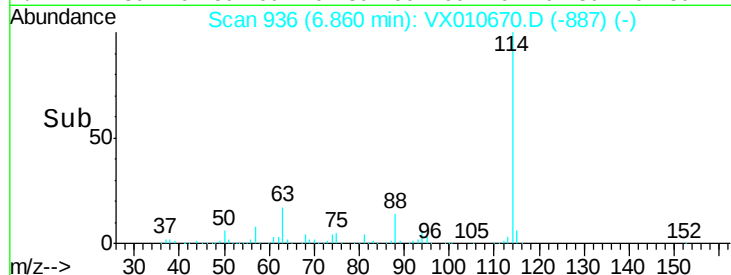
88 14.3 0.0 27.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.289 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010670.D

Acq: 04 Jul 2019 06:18

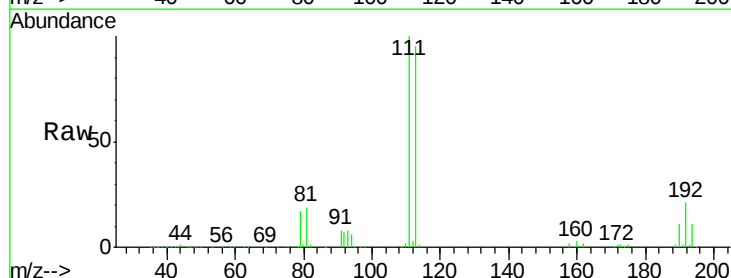
Tgt Ion:113 Resp: 110595

Ion Ratio Lower Upper

113 100

111 102.8 81.2 121.8

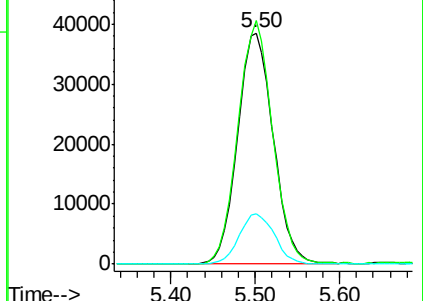
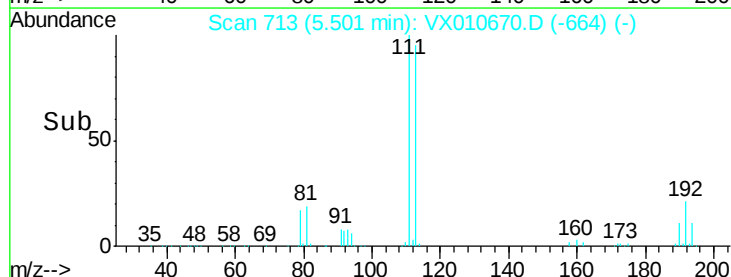
192 21.8 18.6 27.8

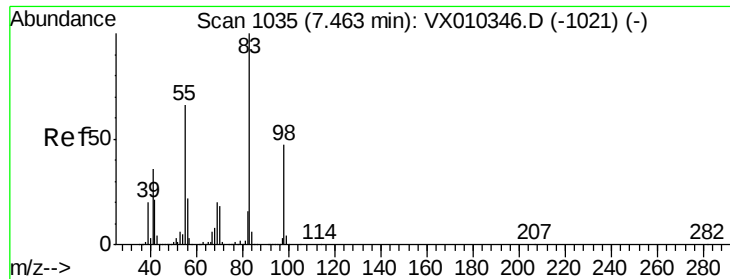


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

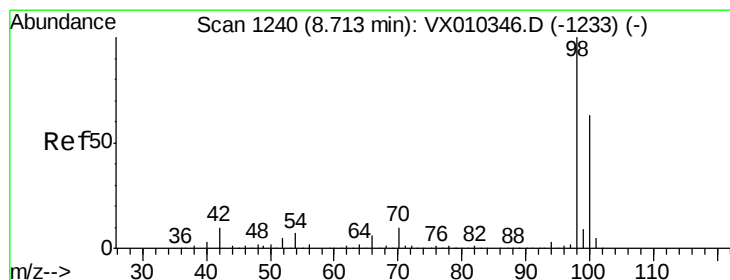
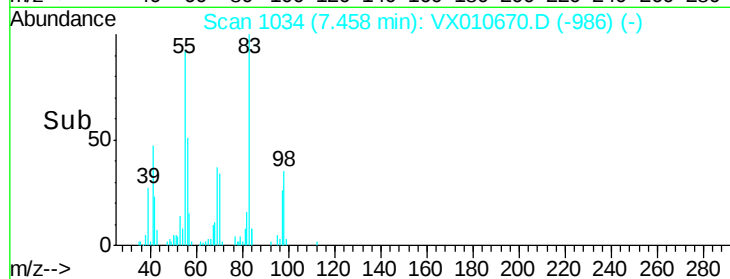
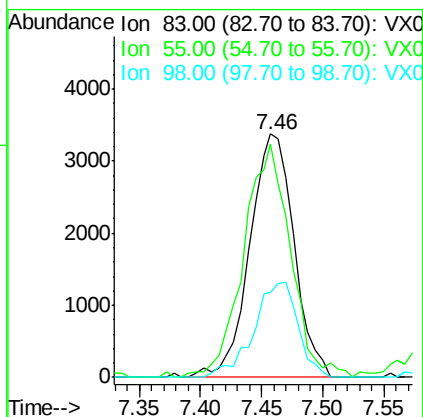
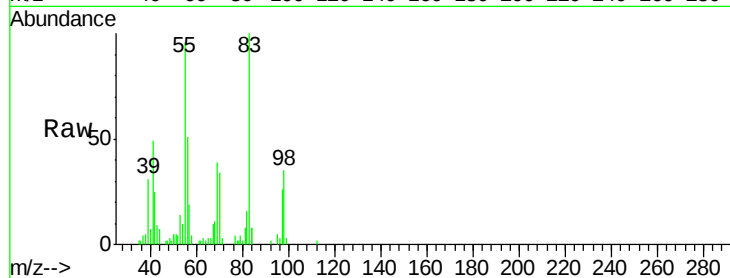




#39  
Methvlcvclohexane  
Concen: 2.211 ug/l  
RT: 7.46 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: VX010670.D  
Acq: 04 Jul 2019 06:18

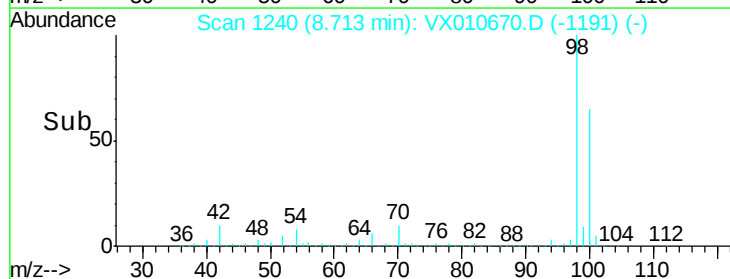
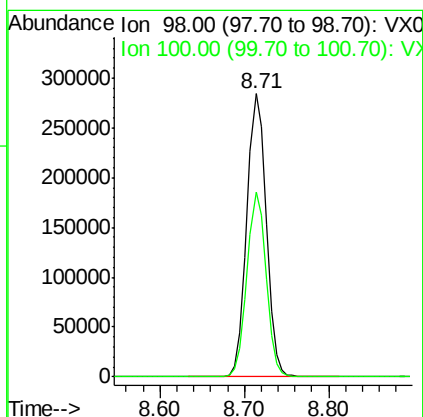
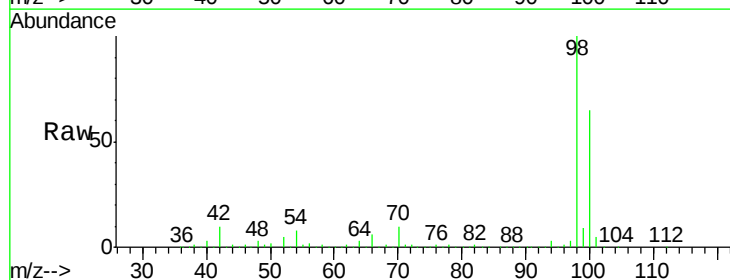
Instrument :  
MSVOA\_X  
ClientSampleId :  
ST008MW037-190701

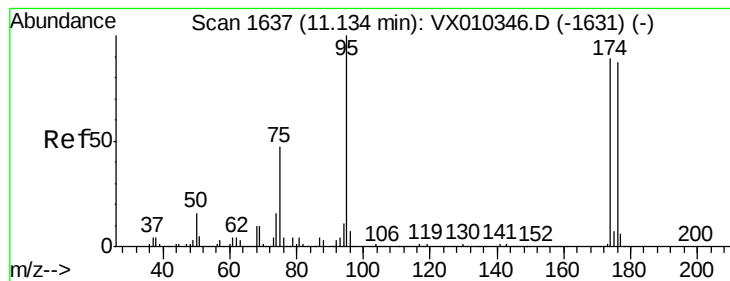
Tot Ion: 83 Resp: 8470  
Ion Ratio Lower Upper  
83 100  
55 93.8 53.0 79.6#  
98 34.8 37.8 56.8#



#50  
Toluene-d8  
Concen: 50.923 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010670.D  
Acq: 04 Jul 2019 06:18

Tgt Ion: 98 Resp: 437149  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.6 77.4





#62

4-Bromofluorobenzene

Concen: 49.221 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010670.D

Acq: 04 Jul 2019 06:18

Instrument :

MSVOA\_X

ClientSampleId :

ST008MW037-190701

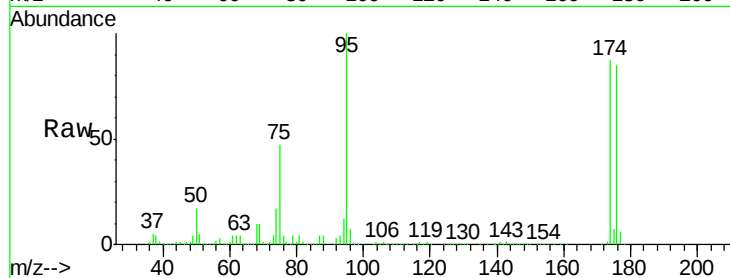
Tot Ion: 95 Resp: 152548

Ion Ratio Lower Upper

95 100

174 92.8 0.0 187.6

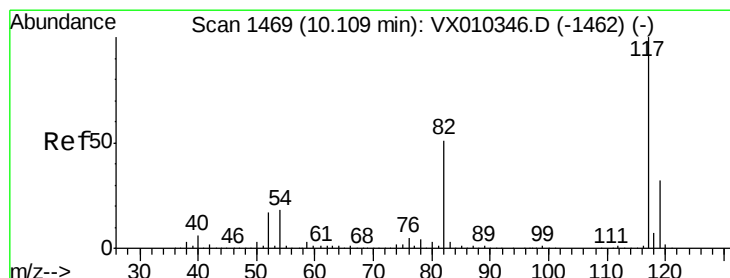
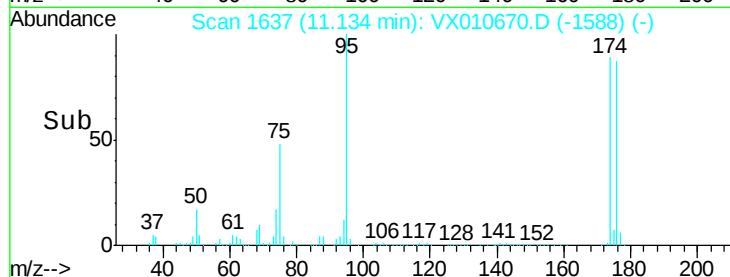
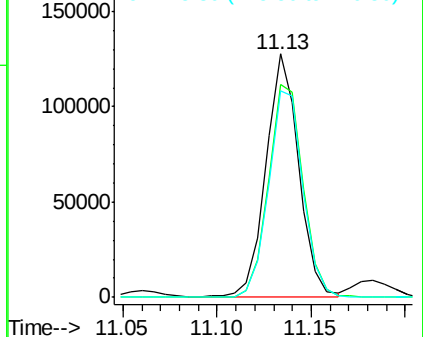
176 89.9 0.0 184.0



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: VX010670.D

Acq: 04 Jul 2019 06:18

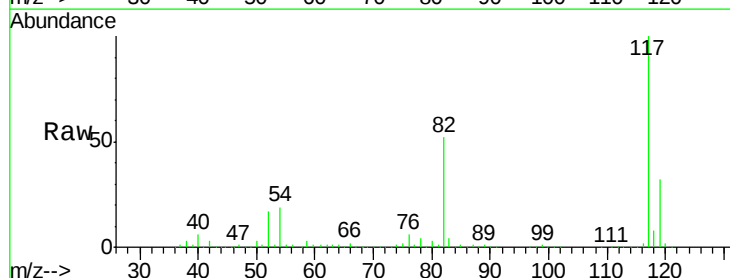
Tgt Ion: 117 Resp: 334501

Ion Ratio Lower Upper

117 100

82 52.4 41.2 61.8

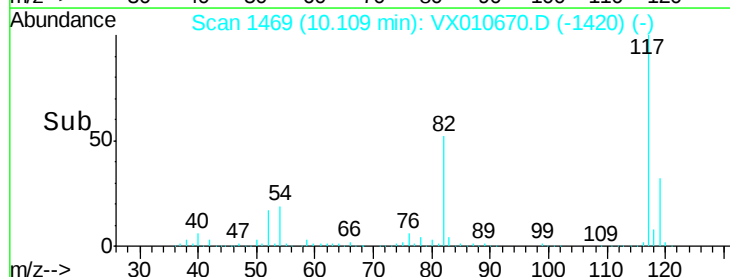
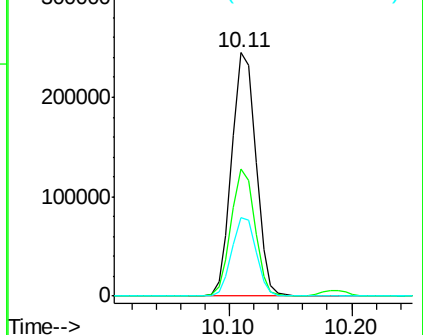
119 32.4 25.5 38.3

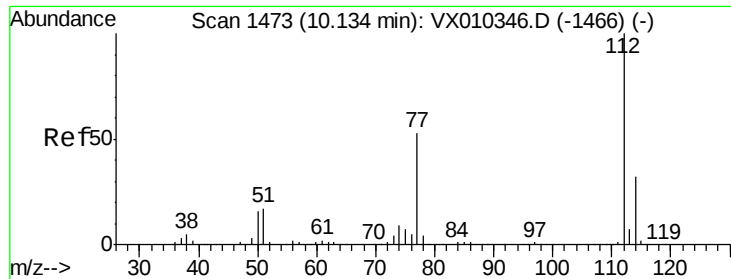


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

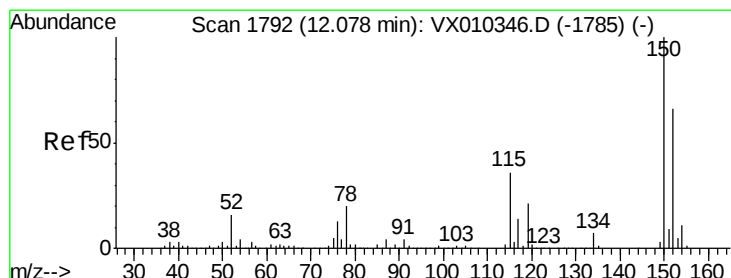
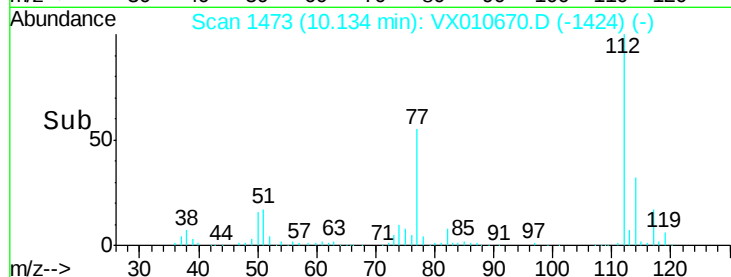
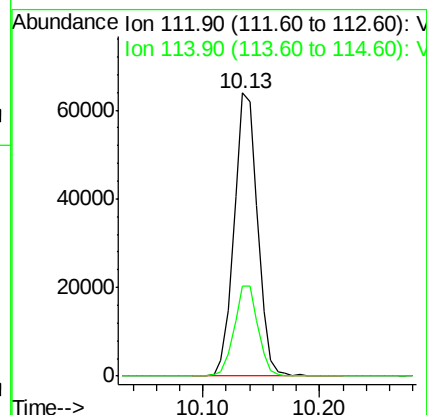
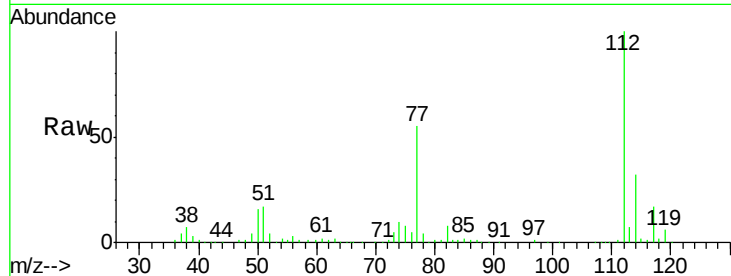




#65  
Chlorobenzene  
Concen: 13.180 ug/l  
RT: 10.13 min Scan# 1473  
Delta R.T. 0.00 min  
Lab File: VX010670.D  
Acq: 04 Jul 2019 06:18

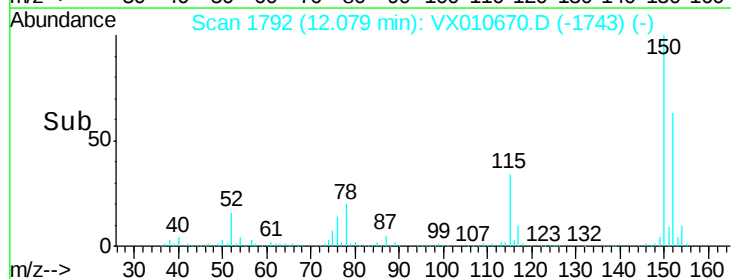
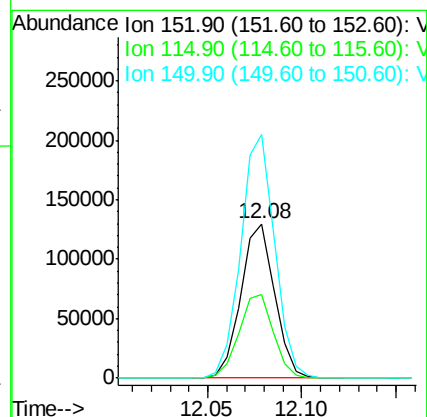
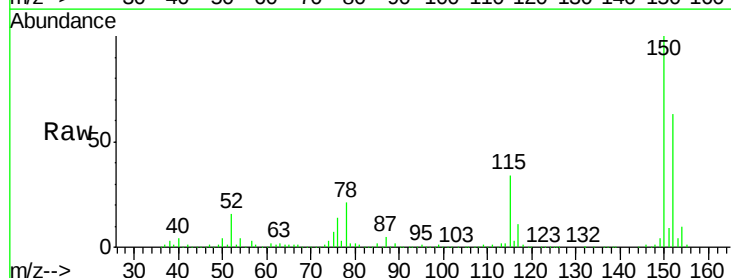
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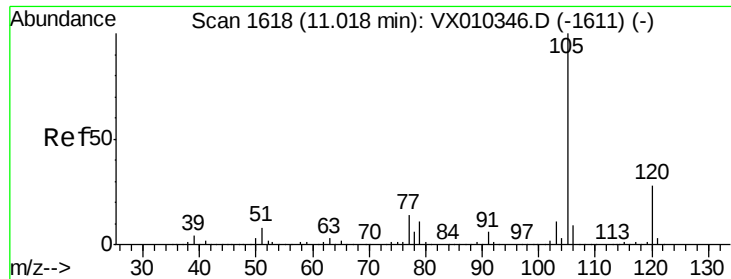
Tot Ion:112 Resp: 89507  
Ion Ratio Lower Upper  
112 100  
114 31.7 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010670.D  
Acq: 04 Jul 2019 06:18

Tgt Ion:152 Resp: 161825  
Ion Ratio Lower Upper  
152 100  
115 54.9 38.6 115.7  
150 158.1 0.0 347.4





#73

Isopropylbenzene

Concen: 13.558 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010670.D

Acq: 04 Jul 2019 06:18

Instrument :

MSVOA\_X

ClientSampleId :

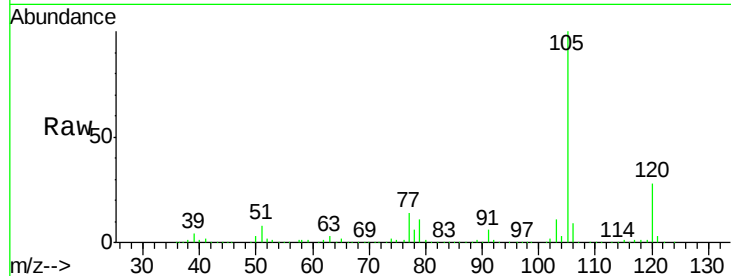
ST008MW037-190701

Tot Ion:105 Resp: 148728

Ion Ratio Lower Upper

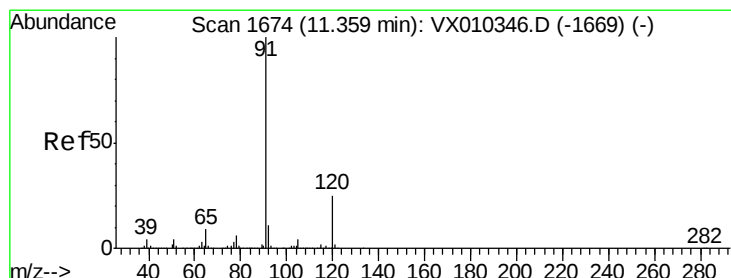
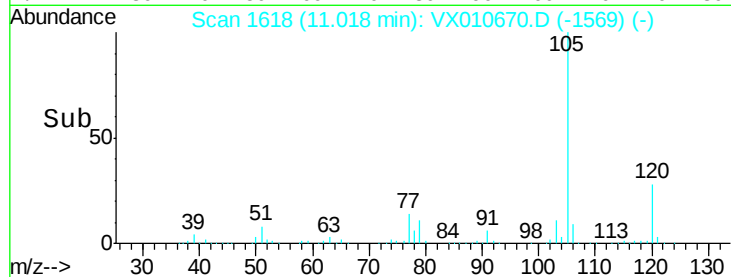
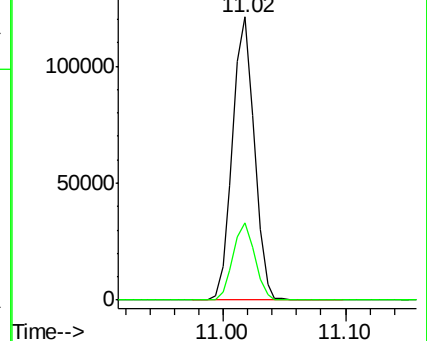
105 100

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: 4.389 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010670.D

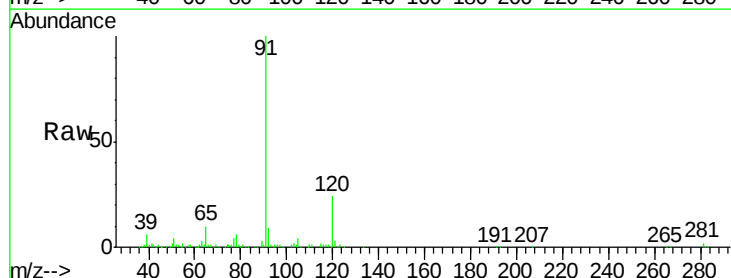
Acq: 04 Jul 2019 06:18

Tgt Ion: 91 Resp: 52918

Ion Ratio Lower Upper

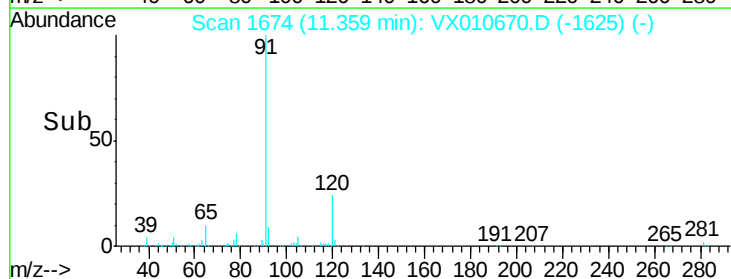
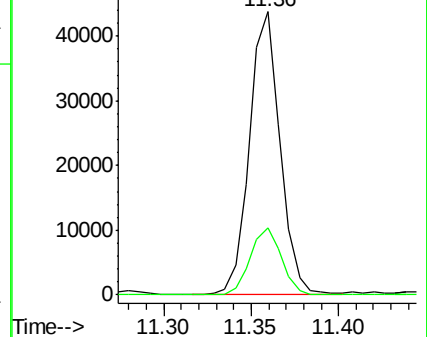
91 100

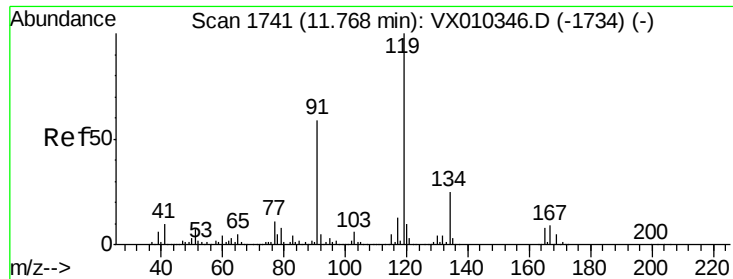
120 24.5 12.4 37.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

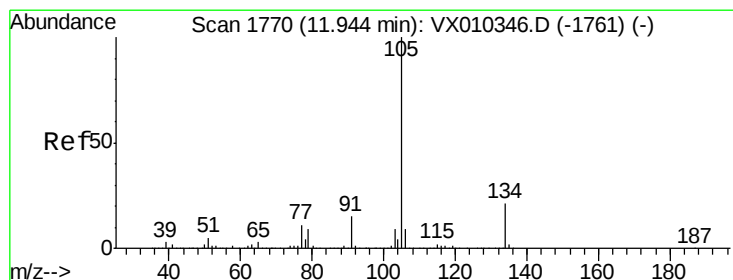
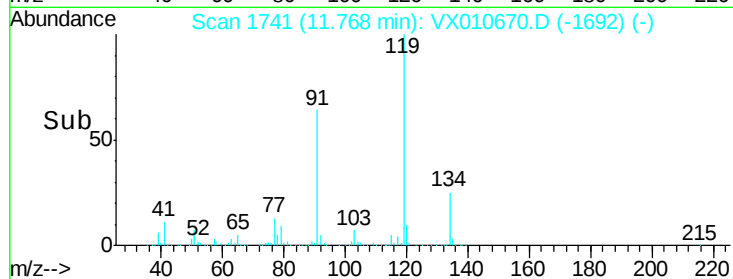
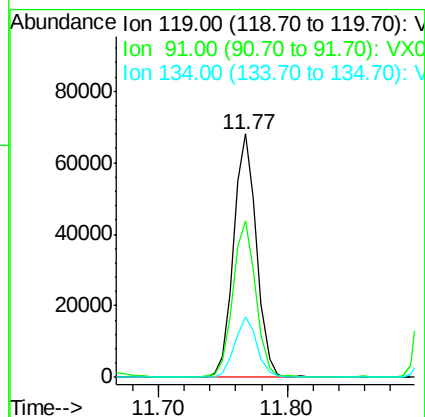
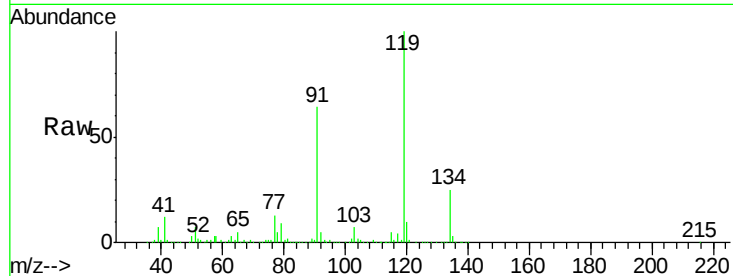




#83  
tert-Butylbenzene  
Concen: 9.330 ug/l  
RT: 11.77 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VX010670.D  
Acq: 04 Jul 2019 06:18

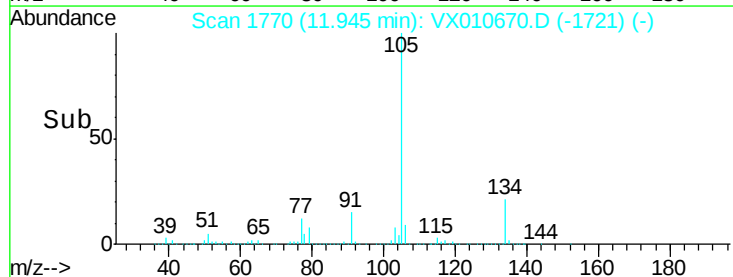
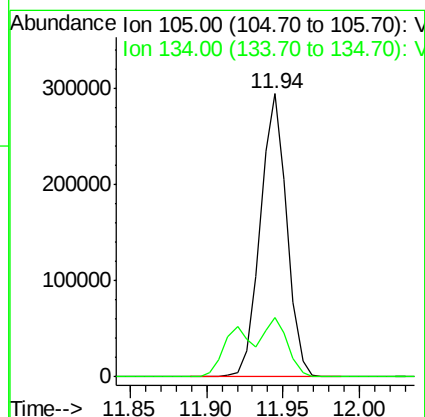
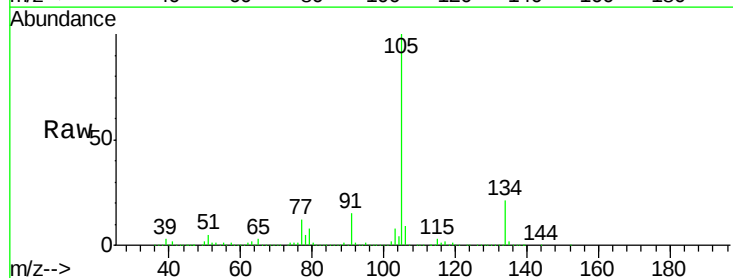
Instrument :  
MSVOA\_X  
ClientSampleId :  
ST008MW037-190701

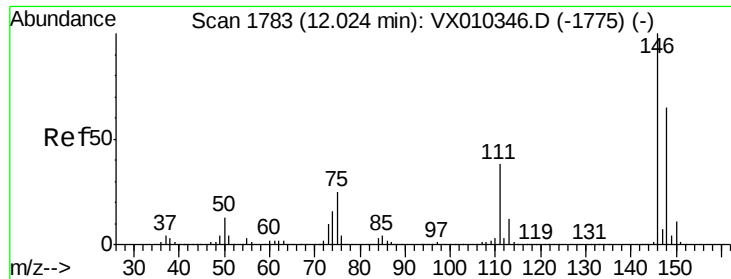
Tot Ion:119 Resp: 84680  
Ion Ratio Lower Upper  
119 100  
91 64.2 27.6 82.7  
134 24.1 11.8 35.4



#85  
sec-Butylbenzene  
Concen: 33.288 ug/l  
RT: 11.94 min Scan# 1770  
Delta R.T. 0.00 min  
Lab File: VX010670.D  
Acq: 04 Jul 2019 06:18

Tgt Ion:105 Resp: 354749  
Ion Ratio Lower Upper  
105 100  
134 18.6 10.7 31.9

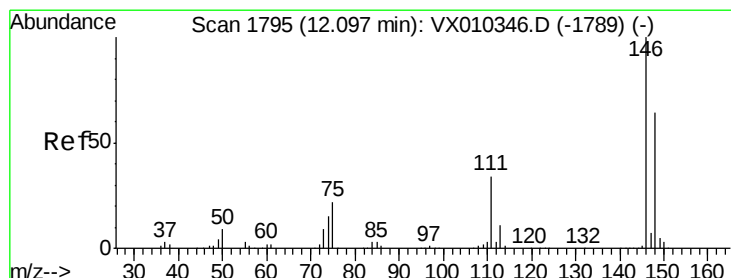
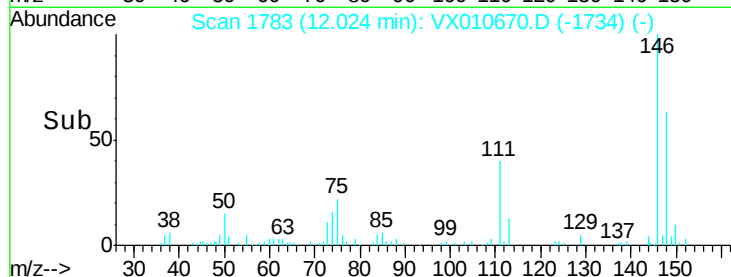
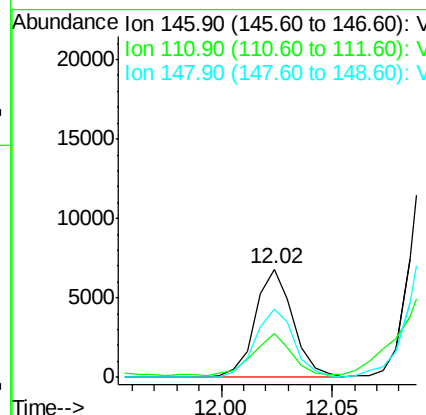
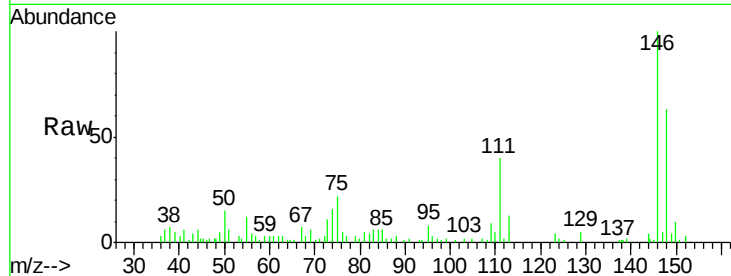




#87  
 1,3-Dichlorobenzene  
 Concen: 1.516 ug/l  
 RT: 12.02 min Scan# 1783  
 Delta R.T. 0.00 min  
 Lab File: VX010670.D  
 Acq: 04 Jul 2019 06:18

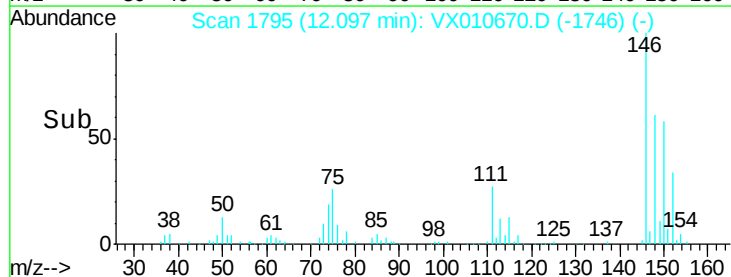
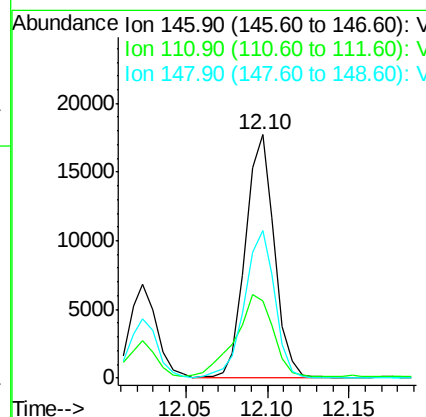
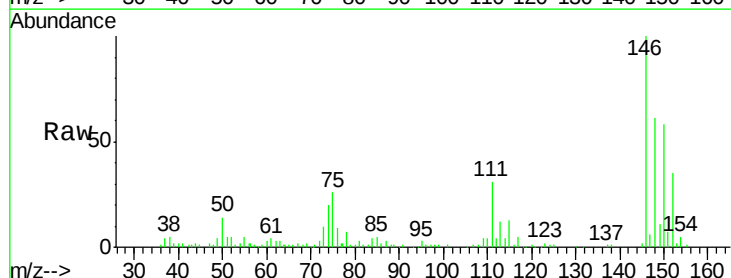
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST008MW037-190701

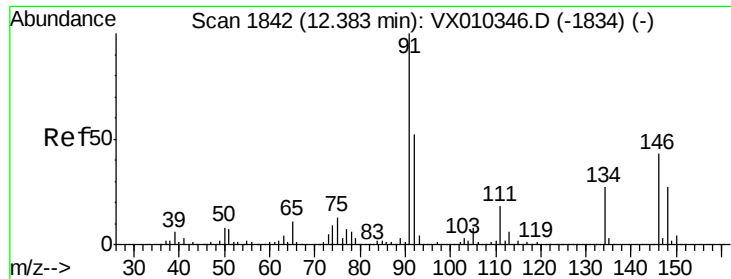
Tot Ion:146 Resp: 8106  
 Ion Ratio Lower Upper  
 146 100  
 111 41.2 19.1 57.1  
 148 64.5 32.5 97.4



#88  
 1,4-Dichlorobenzene  
 Concen: 4.036 ug/l  
 RT: 12.10 min Scan# 1795  
 Delta R.T. 0.00 min  
 Lab File: VX010670.D  
 Acq: 04 Jul 2019 06:18

Tgt Ion:146 Resp: 21971  
 Ion Ratio Lower Upper  
 146 100  
 111 44.2 18.1 54.3  
 148 63.6 32.1 96.3





#89

n-Butylbenzene

Concen: 2.431 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX010670.D

Acq: 04 Jul 2019 06:18

Instrument :

MSVOA\_X

ClientSampleId :

ST008MW037-190701

Tot Ion: 91 Resp: 20364

Ion Ratio Lower Upper

91 100

92 36.2 26.2 78.5

134 77.0 14.1 42.4#

