

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\  
 Data File : VX002433.D  
 Acq On : 09 Jun 2018 20:36  
 Operator : JC/MD  
 Sample : J3394-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-52

Quant Time: Jun 11 08:39:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 221834   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 333377   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 314771   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 183705   | 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   | 157276   | 49.55  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 99.10% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 118946   | 45.37  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 90.74% |          |
| 50) Toluene-d8              | 8.72  | 98   | 479691   | 47.74  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 95.48% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 189330   | 48.86  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 97.72% |          |

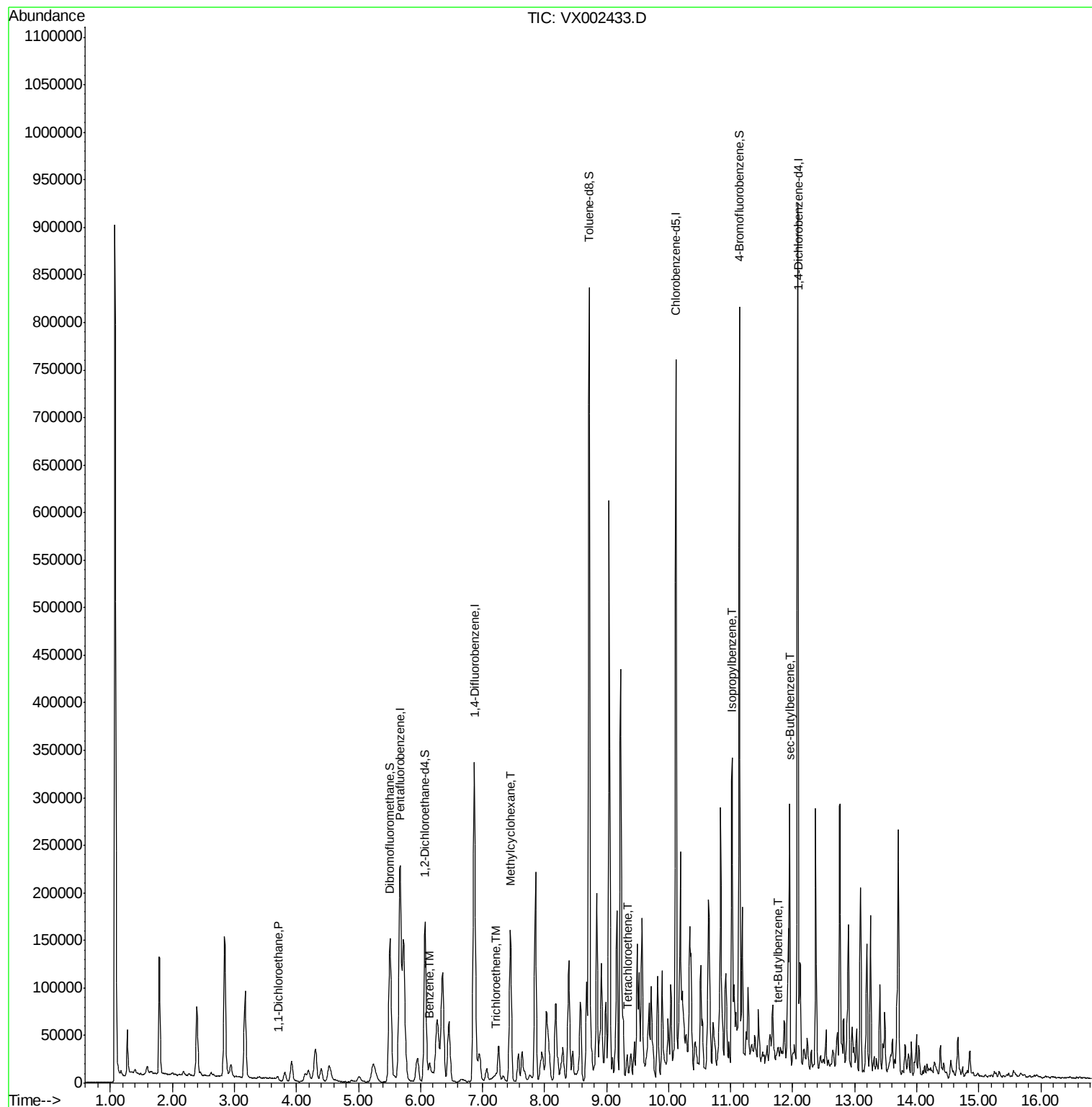
| Target Compounds       | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|------------------------|-------|------|----------|-------|--------|--------|
| 24) 1,1-Dichloroethane | 3.70  | 63   | 4429     | 0.87  | ug/l # | 92     |
| 39) Methylcyclohexane  | 7.45  | 83   | 32156    | 7.65  | ug/l # | 20     |
| 40) Benzene            | 6.15  | 78   | 20671    | 1.92  | ug/l   | 93     |
| 44) Trichloroethene    | 7.22  | 130  | 2512     | 0.84  | ug/l   | 91     |
| 64) Tetrachloroethene  | 9.34  | 164  | 1727     | 0.53  | ug/l # | 88     |
| 73) Isopropylbenzene   | 11.02 | 105  | 160445   | 12.55 | ug/l   | 99     |
| 83) tert-Butylbenzene  | 11.77 | 119  | 4836     | 0.45  | ug/l   | 82     |
| 85) sec-Butylbenzene   | 11.95 | 105  | 130691   | 10.44 | ug/l   | 95     |

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

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ClientSampleId :  
W-52

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

Instrument :

MSVOA\_X

ClientSampleId :

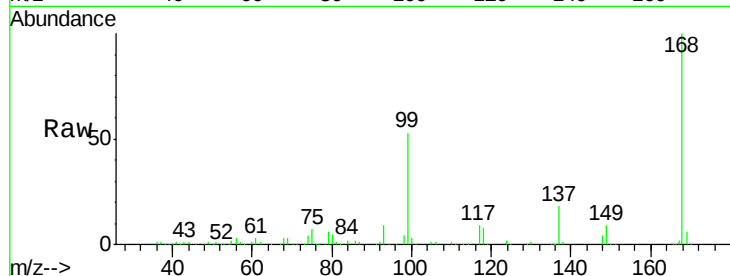
W-52

Tot Ion:168 Resp: 221834

Ion Ratio Lower Upper

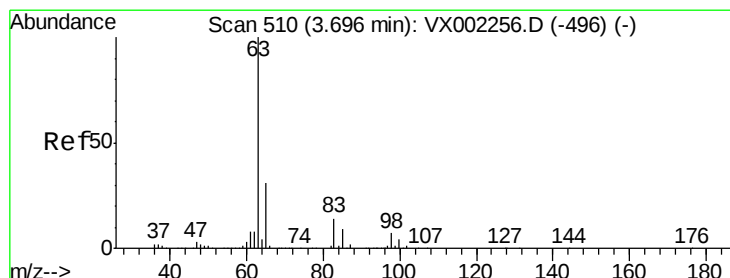
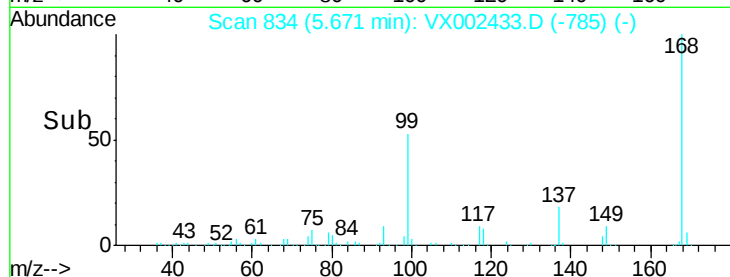
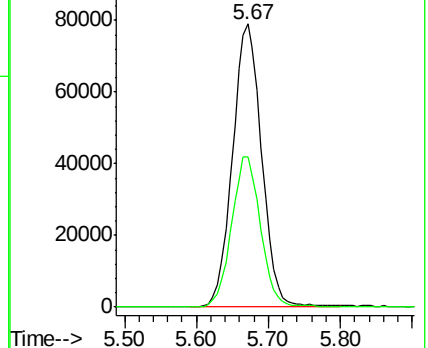
168 100

99 53.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#24

1,1-Dichloroethane

Concen: 0.87 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

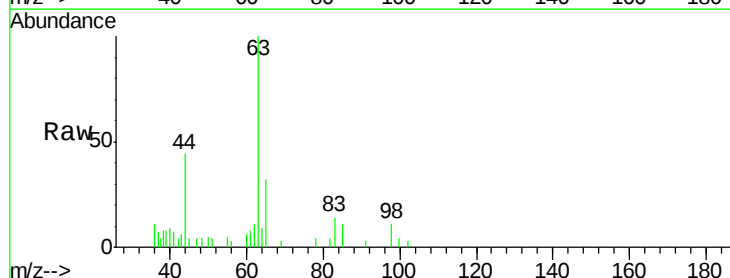
Tgt Ion: 63 Resp: 4429

Ion Ratio Lower Upper

63 100

98 11.1 3.4 10.2#

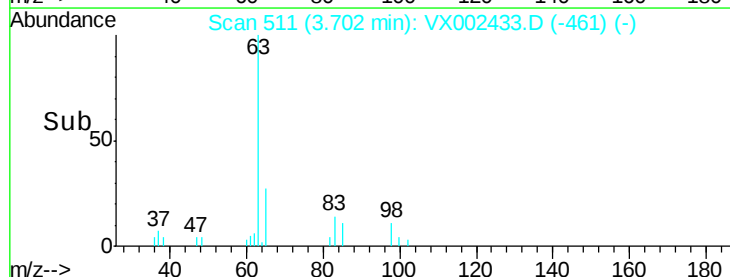
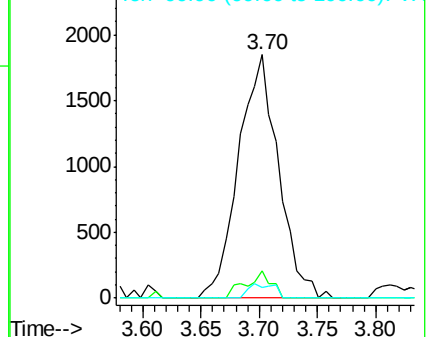
100 4.4 2.0 6.0

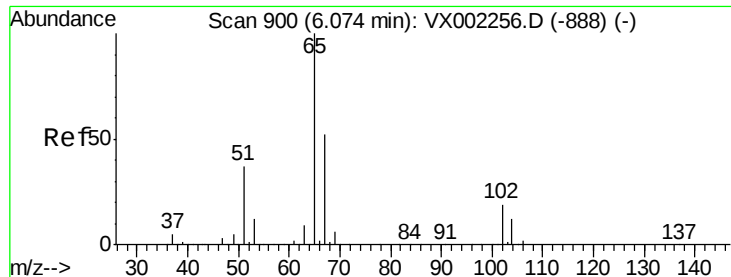


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

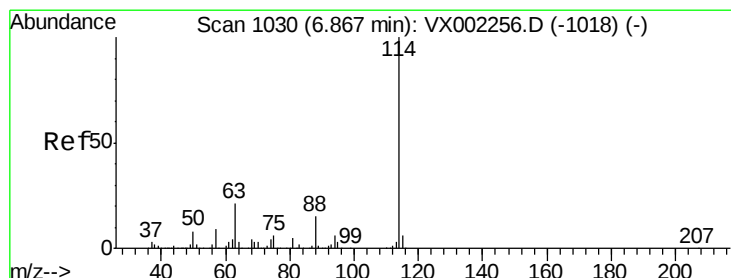
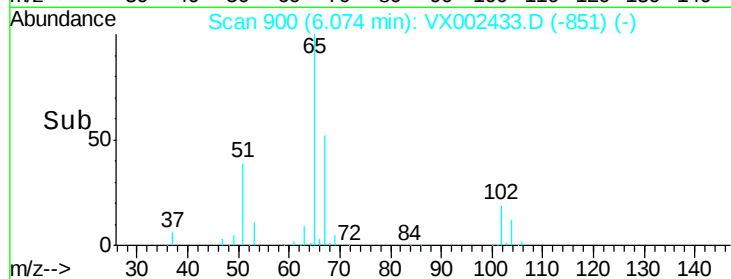
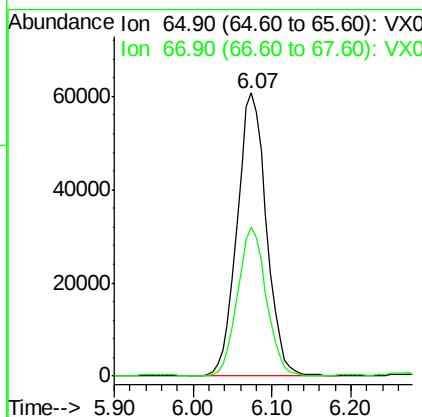
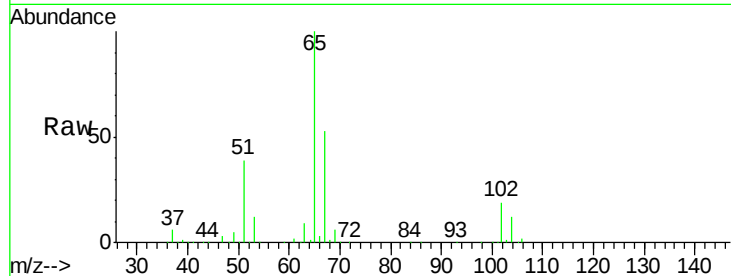




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.55 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. -0.00 min  
 Lab File: VX002433.D  
 Acq: 09 Jun 2018 20:36

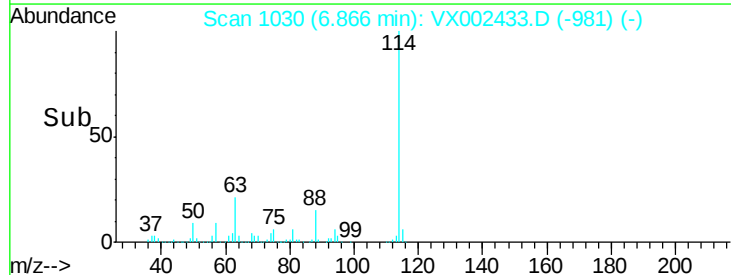
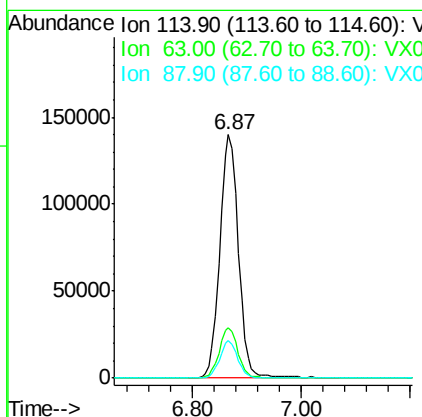
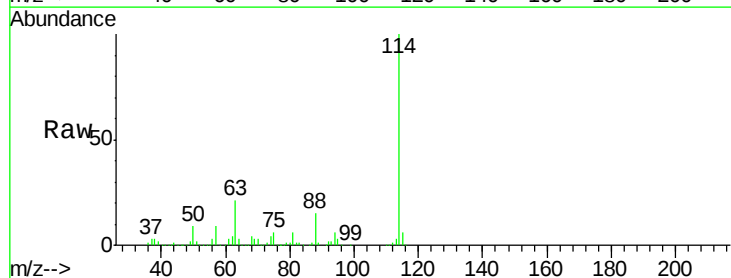
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-52

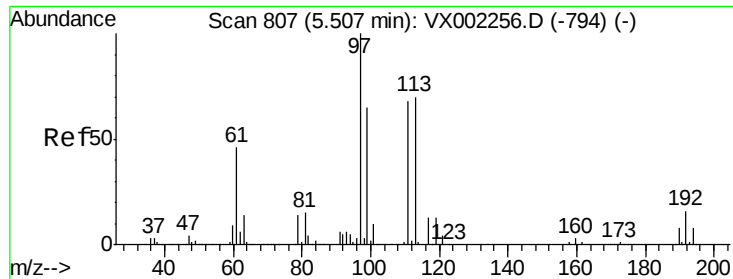
Tot Ion: 65 Resp: 157276  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX002433.D  
 Acq: 09 Jun 2018 20:36

Tgt Ion: 114 Resp: 333377  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 41.4  
 88 15.2 0.0 30.0

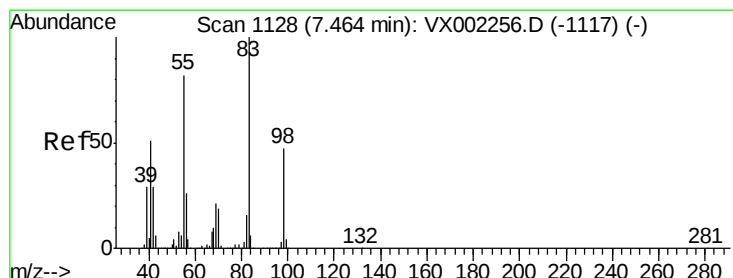
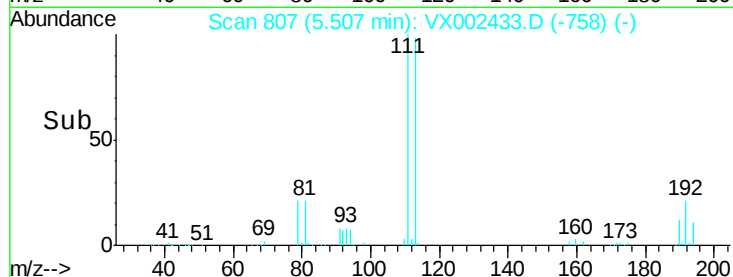
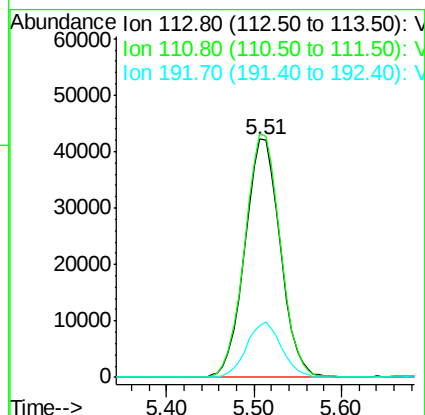
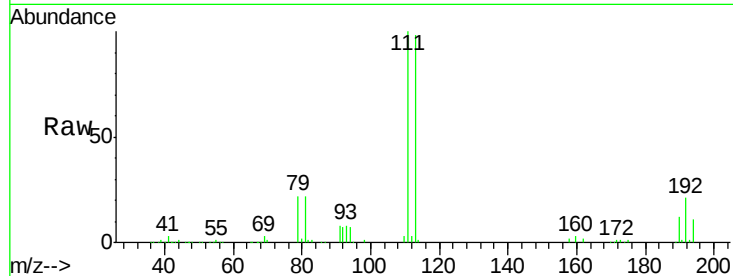




#35  
 Dibromofluoromethane  
 Concen: 45.37 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. -0.00 min  
 Lab File: VX002433.D  
 Acq: 09 Jun 2018 20:36

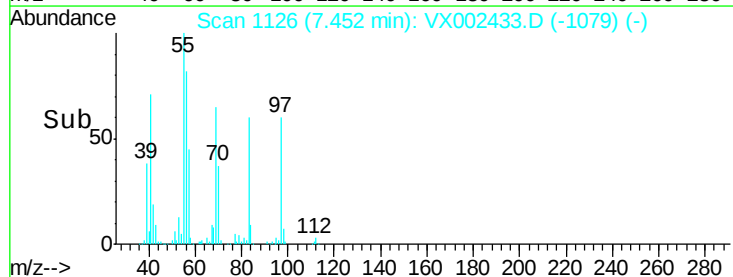
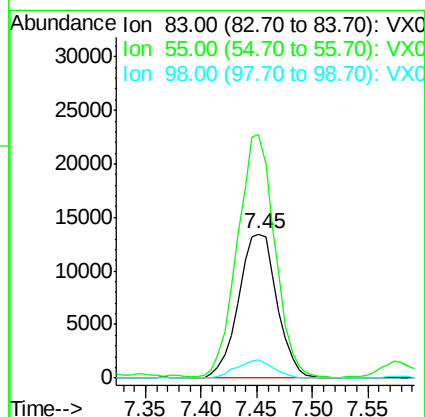
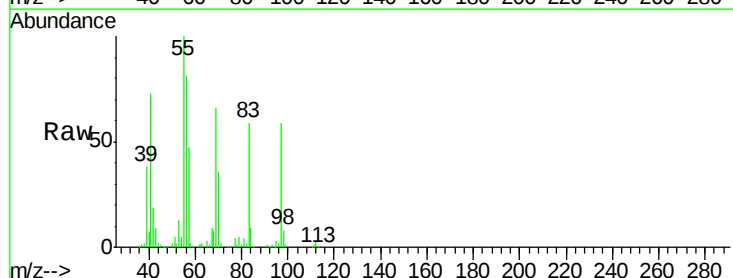
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 W-52

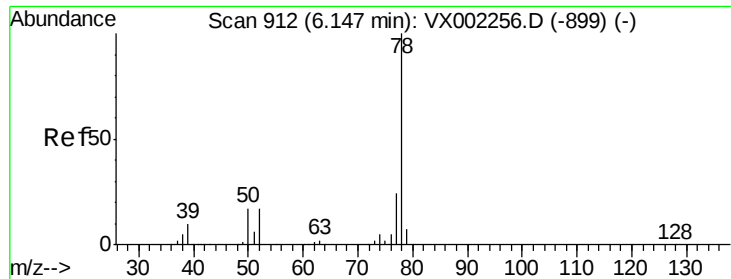
Tot Ion:113 Resp: 118946  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 81.4 122.0  
 192 22.8 19.1 28.7



#39  
 Methylcyclohexane  
 Concen: 7.65 ug/l  
 RT: 7.45 min Scan# 1126  
 Delta R.T. -0.01 min  
 Lab File: VX002433.D  
 Acq: 09 Jun 2018 20:36

Tgt Ion: 83 Resp: 32156  
 Ion Ratio Lower Upper  
 83 100  
 55 168.2 65.4 98.0#  
 98 13.1 37.4 56.0#





#40

Benzene

Concen: 1.92 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

Instrument :

MSVOA\_X

ClientSampleId :

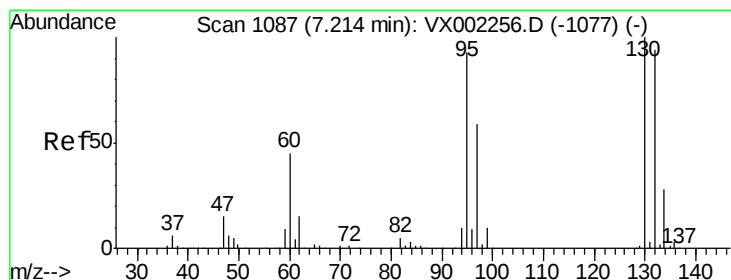
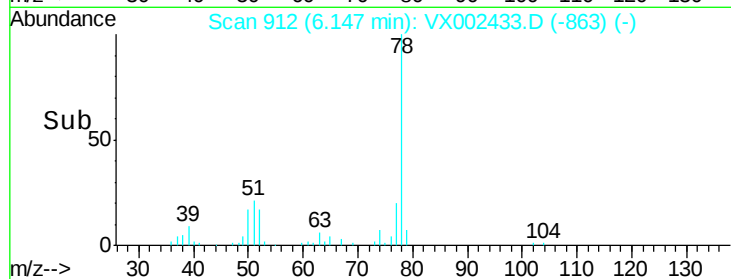
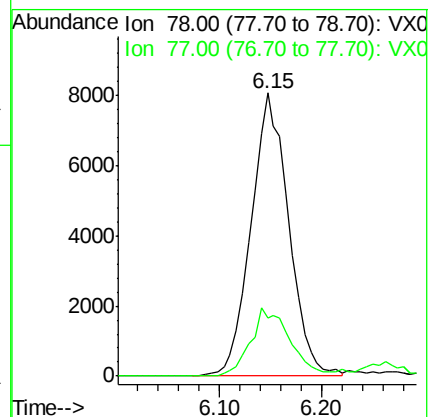
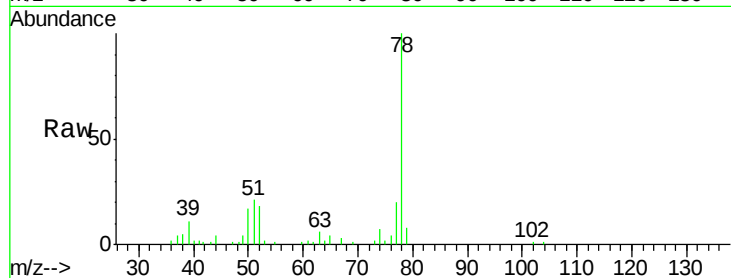
W-52

Tot Ion: 78 Resp: 20671

Ion Ratio Lower Upper

78 100

77 20.5 19.1 28.7



#44

Trichloroethene

Concen: 0.84 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX002433.D

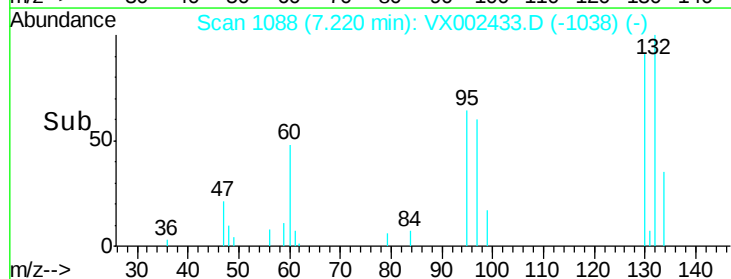
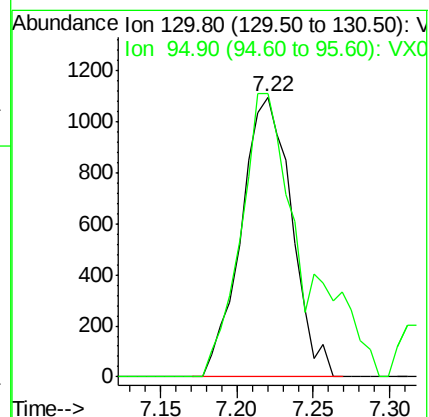
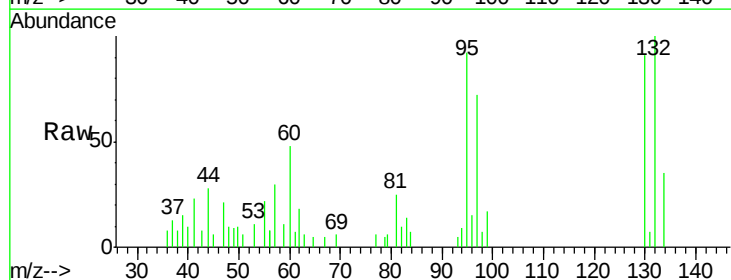
Acq: 09 Jun 2018 20:36

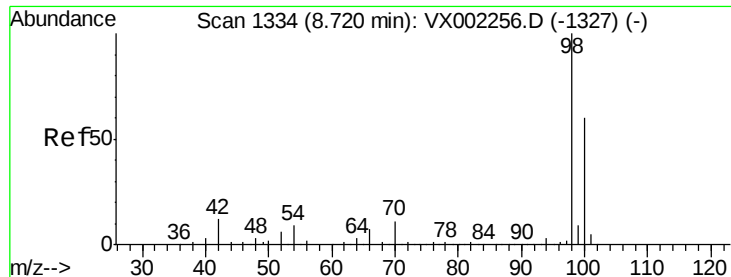
Tgt Ion:130 Resp: 2512

Ion Ratio Lower Upper

130 100

95 101.1 0.0 185.4





#50

Toluene-d8

Concen: 47.74 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

Instrument :

MSVOA\_X

ClientSampleId :

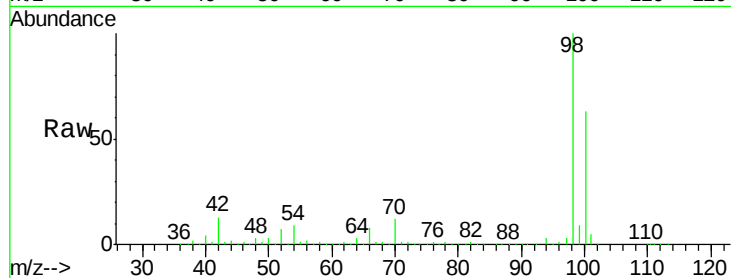
W-52

Tot Ion: 98 Resp: 479691

Ion Ratio Lower Upper

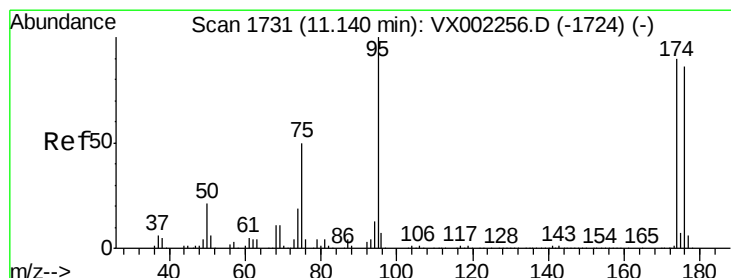
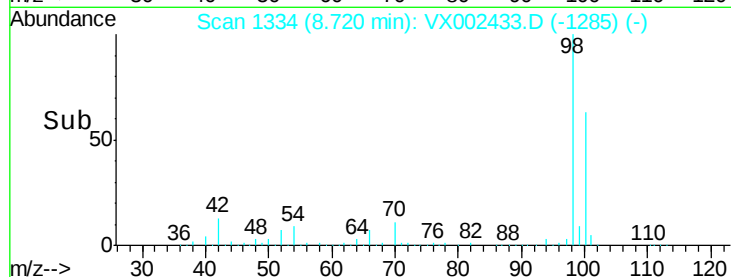
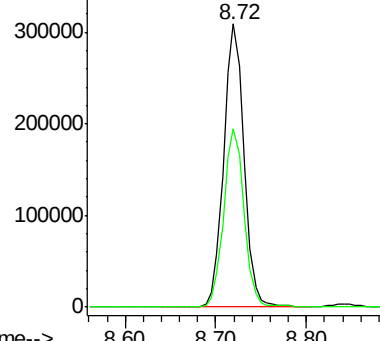
98 100

100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 48.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

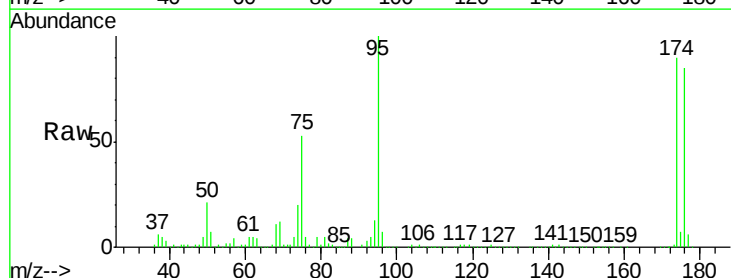
Tgt Ion: 95 Resp: 189330

Ion Ratio Lower Upper

95 100

174 88.5 0.0 187.4

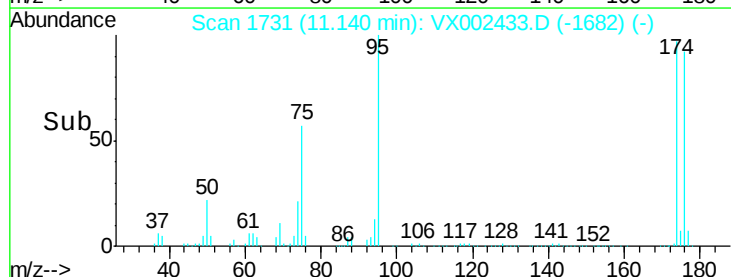
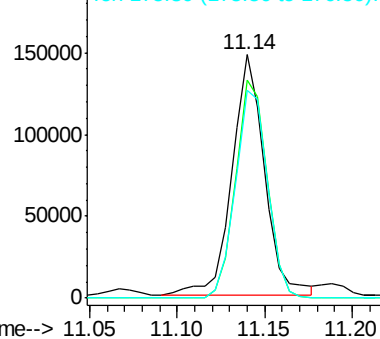
176 85.9 0.0 181.0

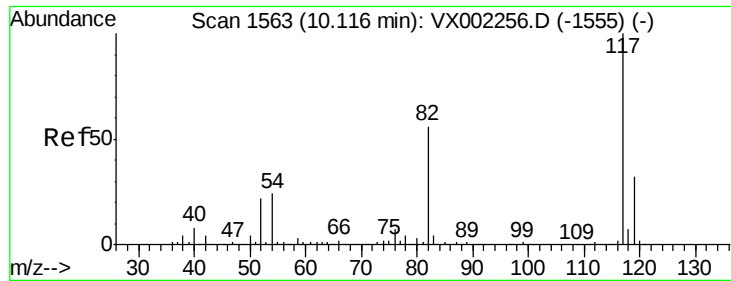


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

Instrument :

MSVOA\_X

ClientSampled :

W-52

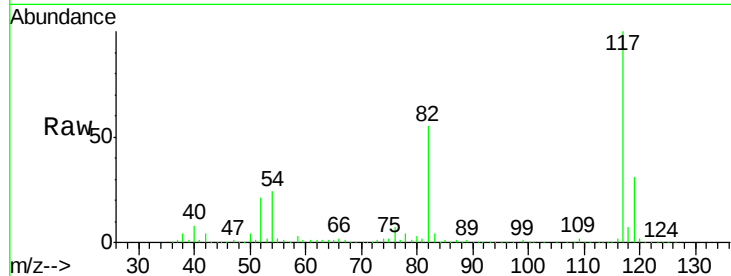
Tot Ion:117 Resp: 314771

Ion Ratio Lower Upper

117 100

82 54.1 45.0 67.4

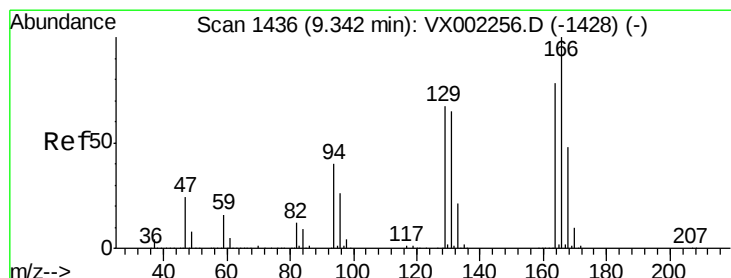
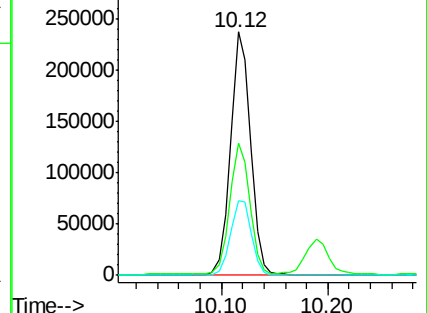
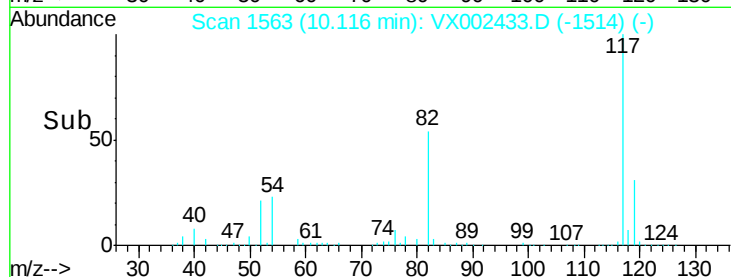
119 30.6 25.8 38.6



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



#64

Tetrachloroethene

Concen: 0.53 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

Tgt Ion:164 Resp: 1727

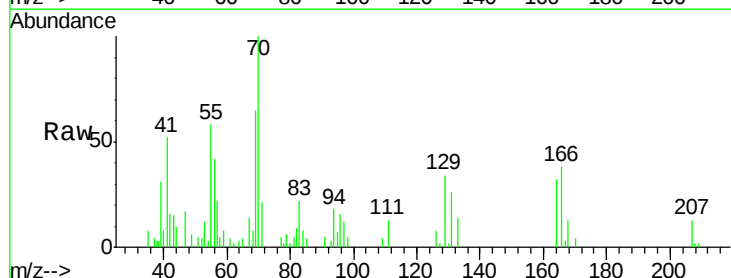
Ion Ratio Lower Upper

164 100

166 117.8 102.9 154.3

129 105.2 68.6 102.8#

131 79.1 66.8 100.2

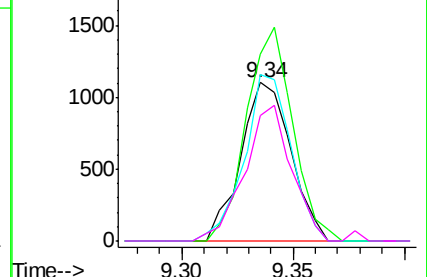
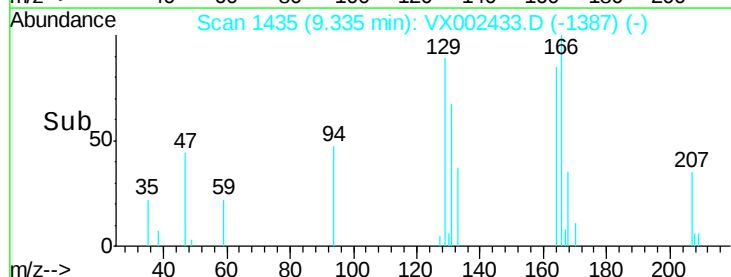


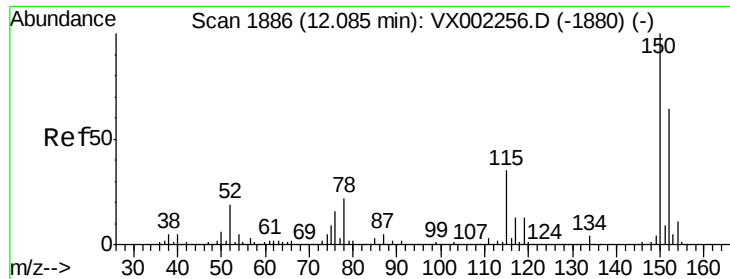
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002433.D

Acq: 09 Jun 2018 20:36

Instrument :

MSVOA\_X

ClientSampled :

W-52

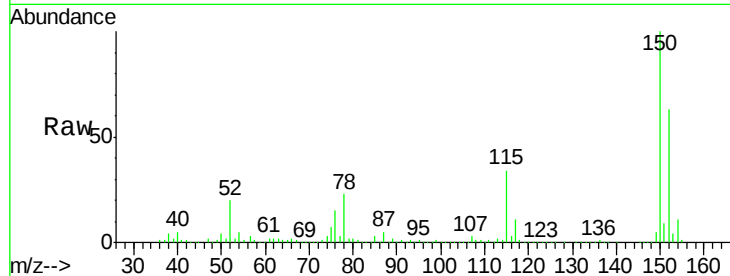
Tot Ion:152 Resp: 183705

Ion Ratio Lower Upper

152 100

115 57.8 40.1 120.2

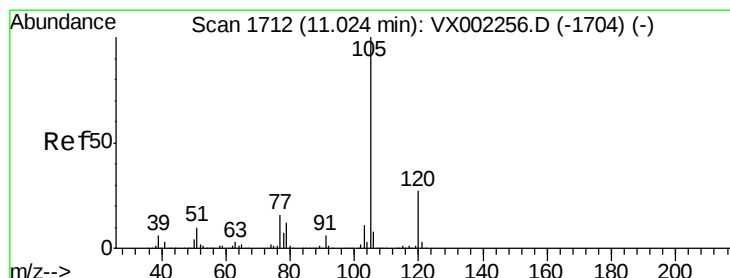
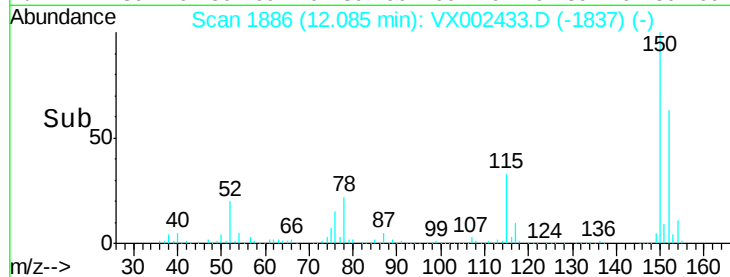
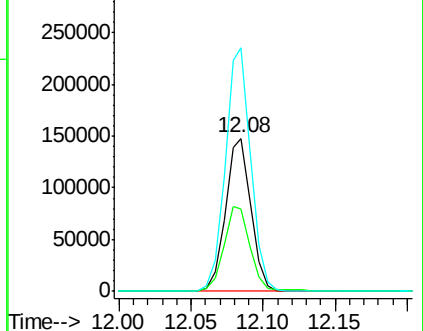
150 159.0 0.0 347.2



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: 12.55 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX002433.D

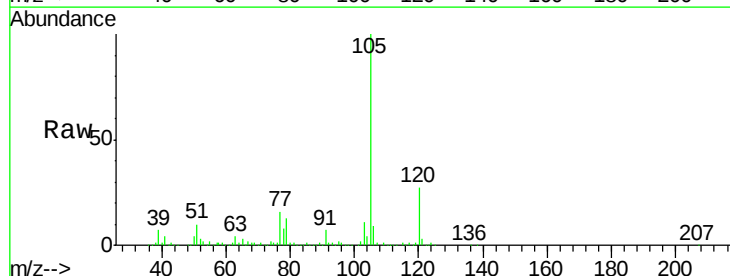
Acq: 09 Jun 2018 20:36

Tgt Ion:105 Resp: 160445

Ion Ratio Lower Upper

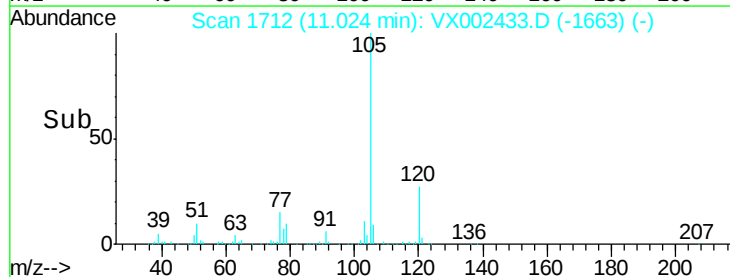
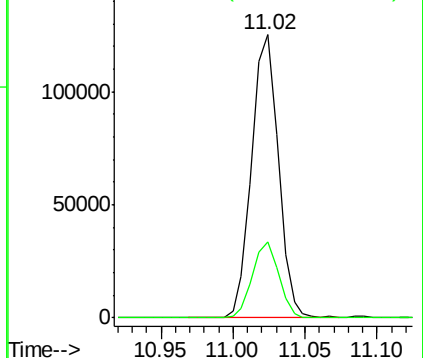
105 100

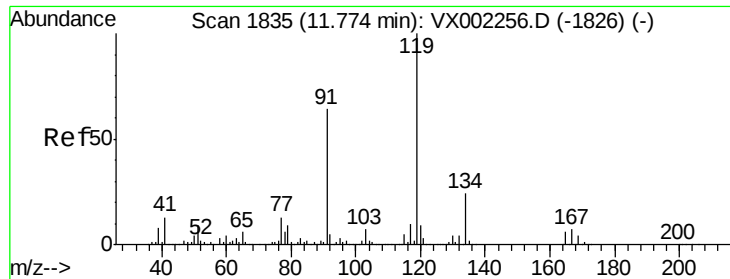
120 26.5 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

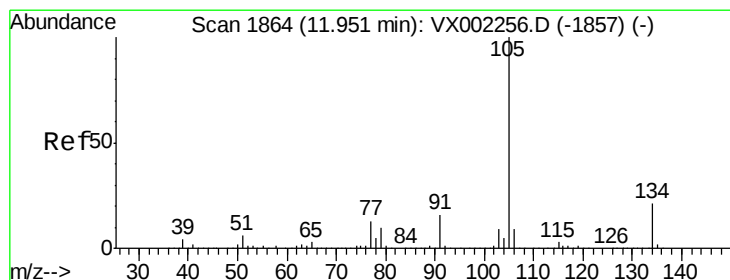
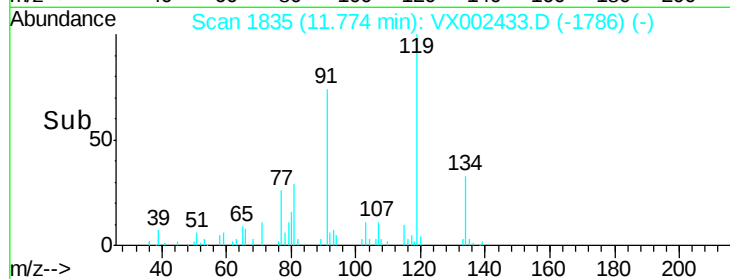
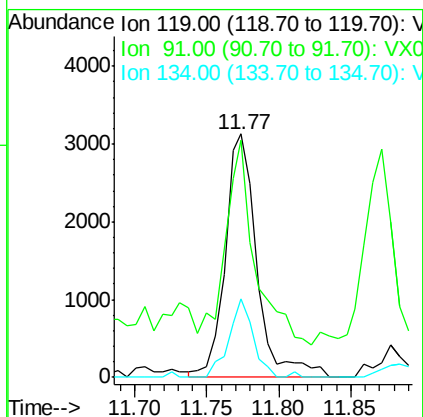
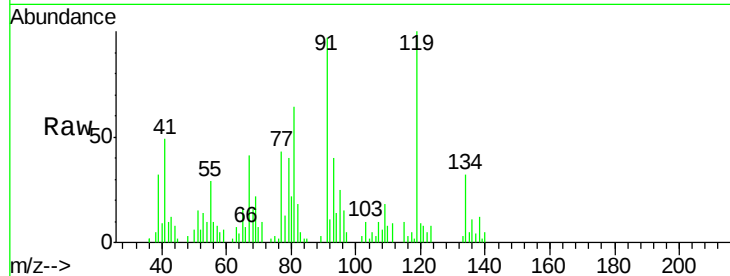




#83  
tert-Butylbenzene  
Concen: 0.45 ug/l  
RT: 11.77 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX002433.D  
Acq: 09 Jun 2018 20:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
W-52

Tot Ion:119 Resp: 4836  
Ion Ratio Lower Upper  
119 100  
91 78.5 30.3 90.9  
134 24.7 11.7 35.1



#85  
sec-Butylbenzene  
Concen: 10.44 ug/l  
RT: 11.95 min Scan# 1864  
Delta R.T. -0.00 min  
Lab File: VX002433.D  
Acq: 09 Jun 2018 20:36

Tgt Ion:105 Resp: 130691  
Ion Ratio Lower Upper  
105 100  
134 18.4 10.4 31.1

