

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121118\  
 Data File : VX006422.D  
 Acq On : 11 Dec 2018 15:58  
 Operator : JC/MD  
 Sample : J6334-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 B1-121018

Quant Time: Dec 12 09:18:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 839948   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1236925  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 1112135  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 552423   | 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   | 398861   | 46.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.04% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 374443   | 46.76 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.52% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1426614  | 48.97 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.94% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 522317   | 47.58 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.16% |          |

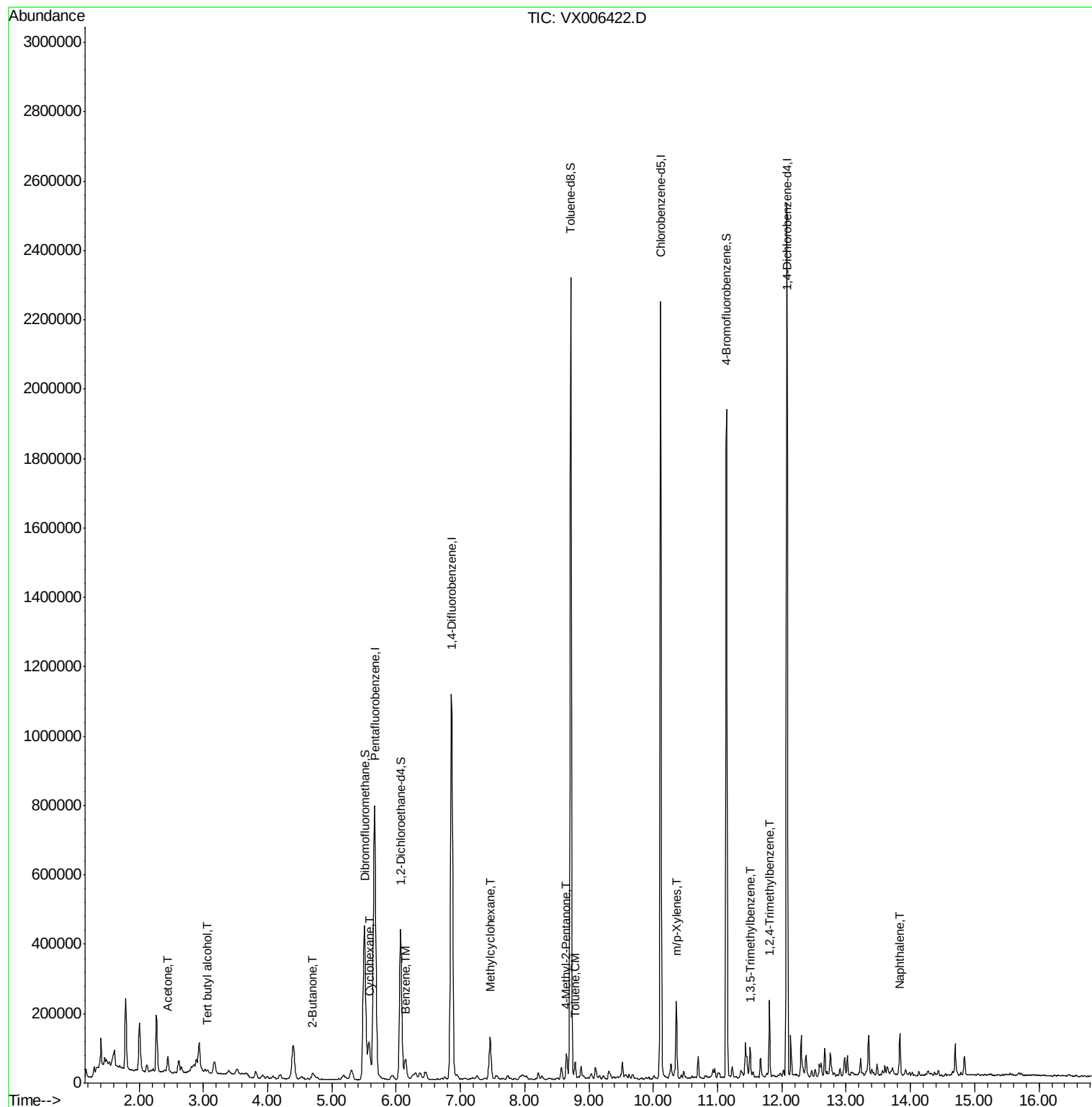
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 11) Tert butyl alcohol     | 3.06  | 59   | 10784    | 4.599  | ug/l  | 96     |
| 16) Acetone                | 2.45  | 43   | 53593    | 13.318 | ug/l  | 98     |
| 25) 2-Butanone             | 4.70  | 43   | 33567    | 5.846  | ug/l  | 97     |
| 31) Cyclohexane            | 5.58  | 56   | 73817    | 5.959  | ug/l  | 93     |
| 39) Methylcyclohexane      | 7.46  | 83   | 59253    | 4.382  | ug/l  | 96     |
| 40) Benzene                | 6.15  | 78   | 74862    | 2.400  | ug/l  | 94     |
| 51) 4-Methyl-2-Pentanone   | 8.65  | 43   | 43327    | 3.827  | ug/l  | 99     |
| 52) Toluene                | 8.79  | 92   | 16146    | 0.787  | ug/l  | 93     |
| 68) m/p-Xylenes            | 10.36 | 106  | 55072    | 3.501  | ug/l  | 99     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 36839    | 1.161  | ug/l  | 97     |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 100643   | 3.071  | ug/l  | 97     |
| 95) Naphthalene            | 13.83 | 128  | 82452    | 1.943  | ug/l  | 97     |

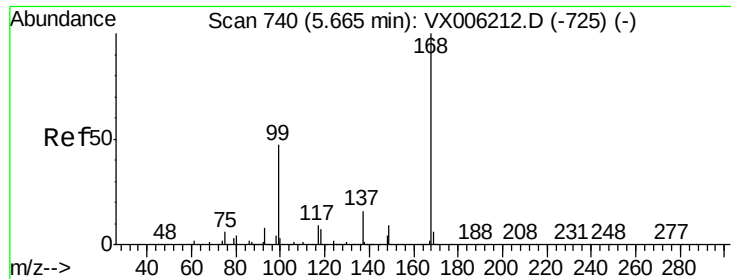
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121118\  
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Sample : J6334-01  
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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
B1-121018

Quant Time: Dec 12 09:18:51 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 30 03:55:33 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX006422.D

Acq: 11 Dec 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

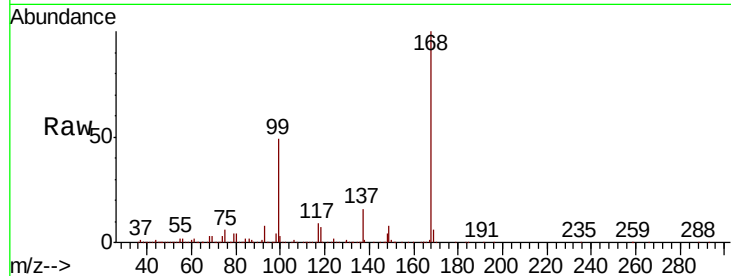
B1-121018

Tot Ion:168 Resp: 839948

Ion Ratio Lower Upper

168 100

99 48.6 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

300000

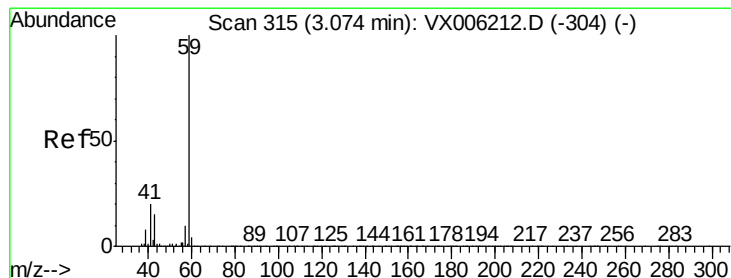
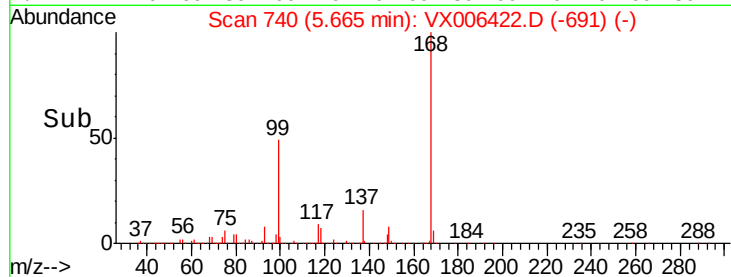
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 4.599 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006422.D

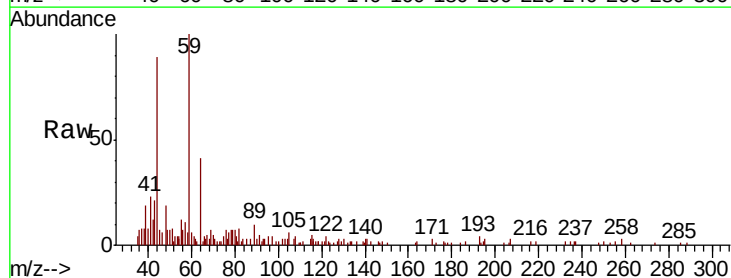
Acq: 11 Dec 2018 15:58

Tgt Ion: 59 Resp: 10784

Ion Ratio Lower Upper

59 100

57 11.8 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

12000

10000

8000

6000

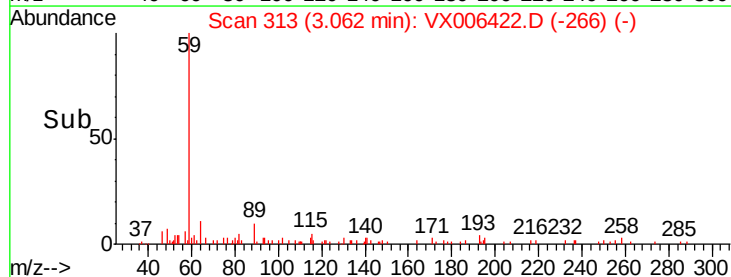
4000

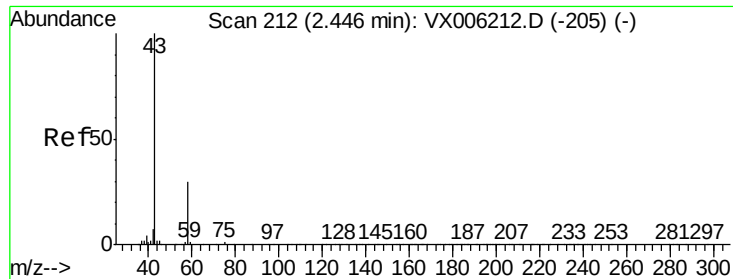
2000

0

Time-->

3.00 3.05 3.10 3.15

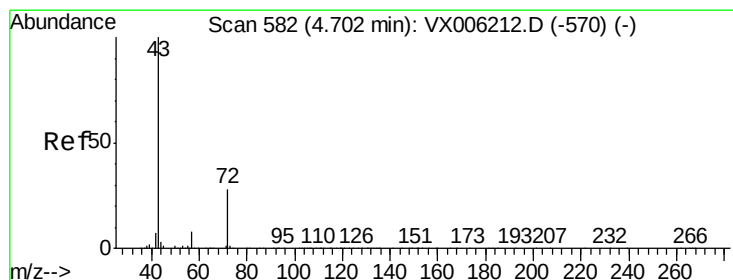
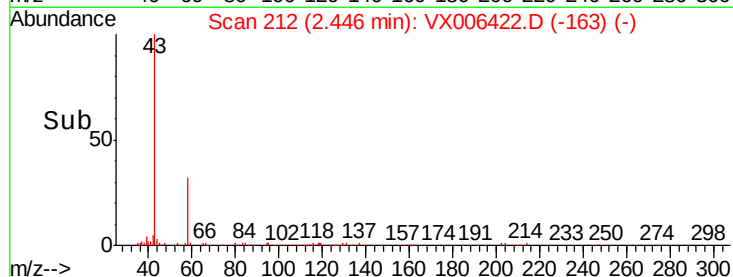
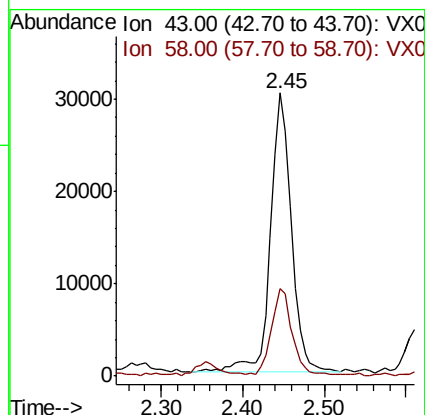
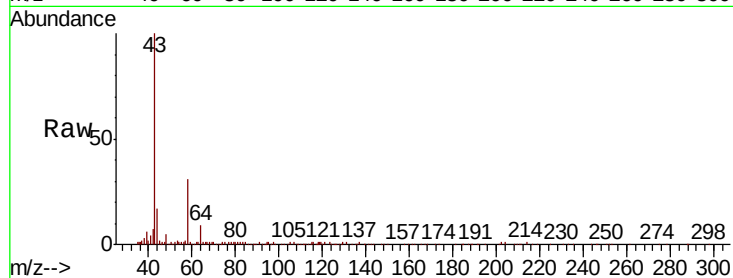




#16  
Acetone  
Concen: 13.318 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

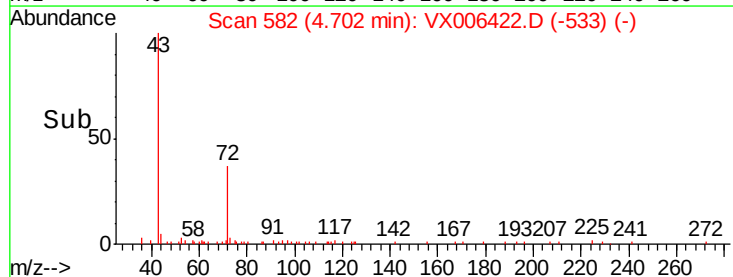
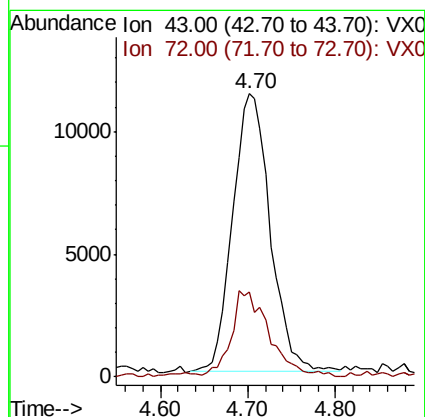
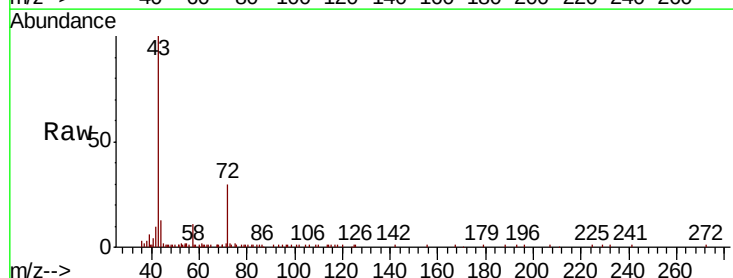
Instrument :  
MSVOA\_X  
ClientSampleId :  
B1-121018

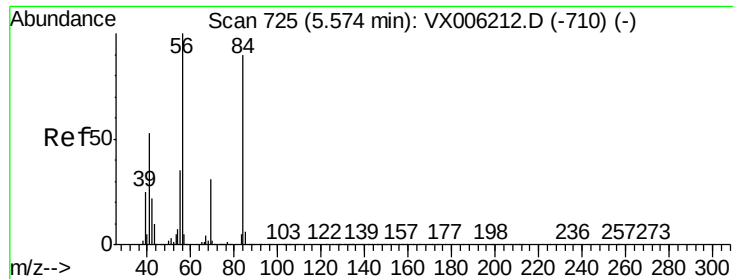
Tot Ion: 43 Resp: 53593  
Ion Ratio Lower Upper  
43 100  
58 30.9 24.0 36.0



#25  
2-Butanone  
Concen: 5.846 ug/l  
RT: 4.70 min Scan# 582  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

Tgt Ion: 43 Resp: 33567  
Ion Ratio Lower Upper  
43 100  
72 29.9 22.6 33.8

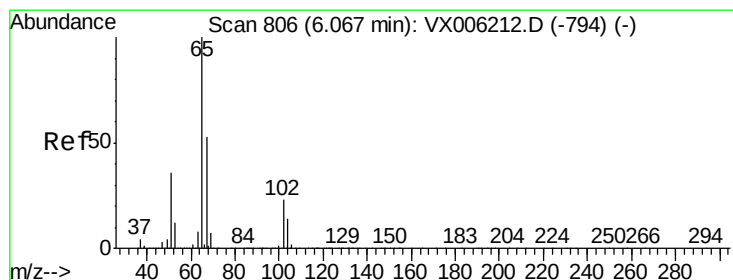
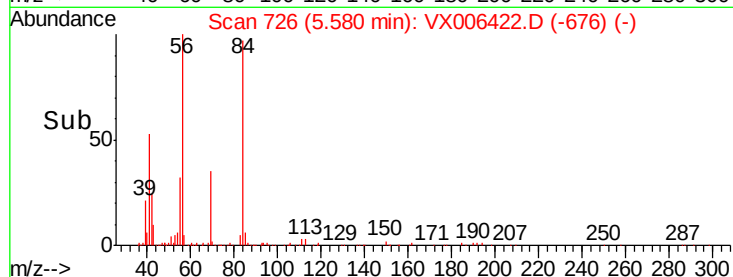
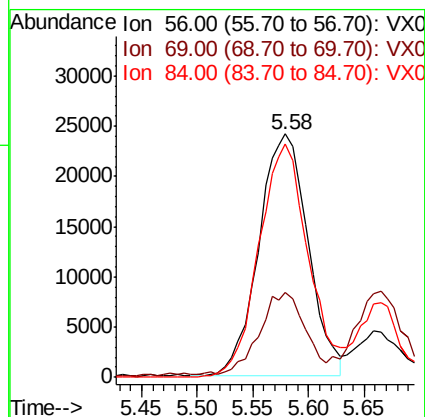
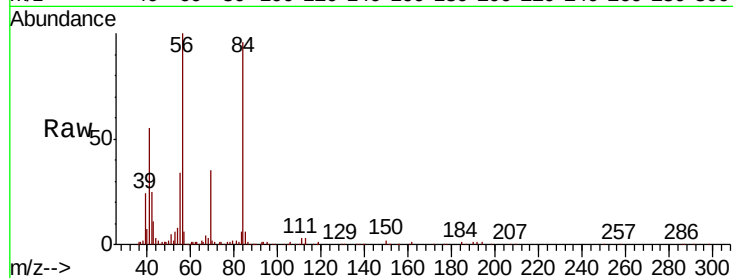




#31  
Cyclohexane  
Concen: 5.959 ug/l  
RT: 5.58 min Scan# 726  
Delta R.T. 0.01 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

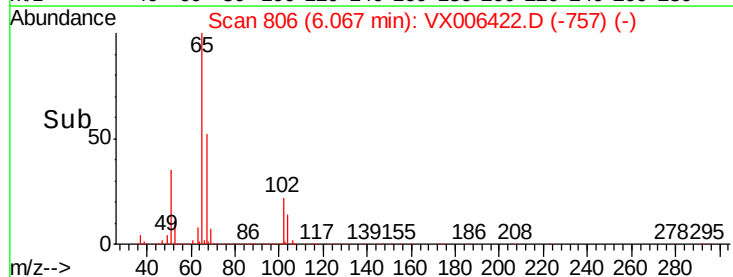
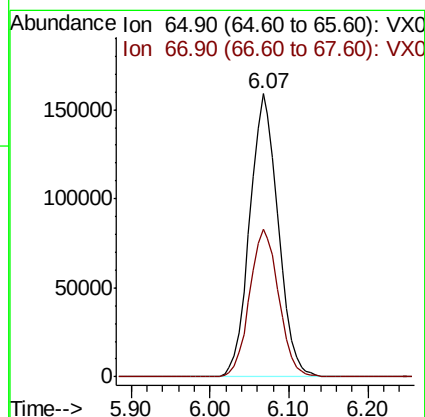
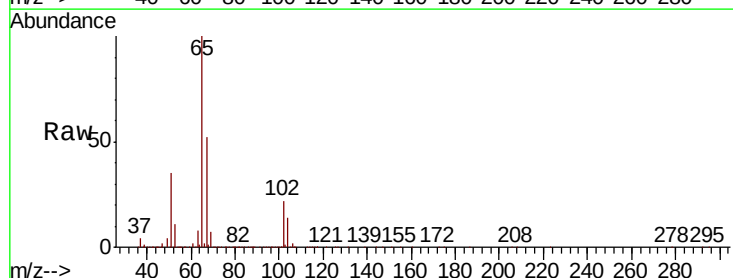
Instrument :  
MSVOA\_X  
ClientSampleId :  
B1-121018

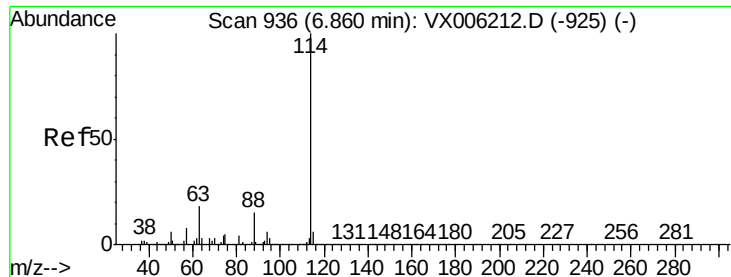
Tot Ion: 56 Resp: 73817  
Ion Ratio Lower Upper  
56 100  
69 34.0 24.5 36.7  
84 96.9 71.8 107.6



#33  
1,2-Dichloroethane-d4  
Concen: 46.517 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

Tgt Ion: 65 Resp: 398861  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 107.2

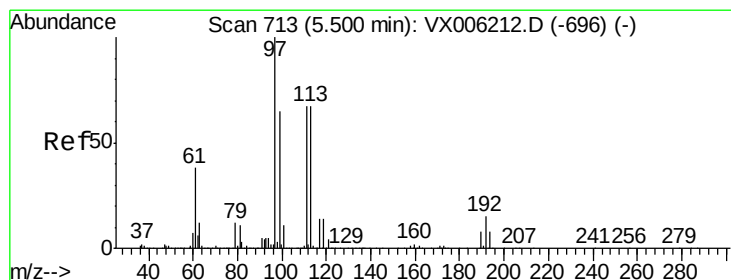
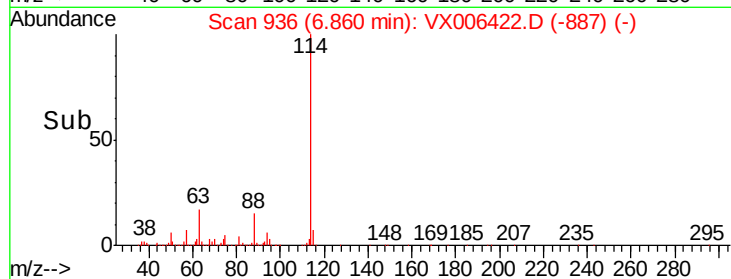
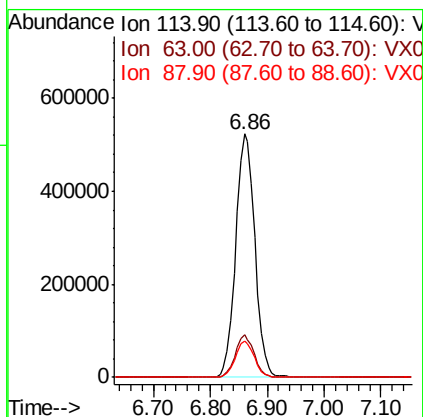
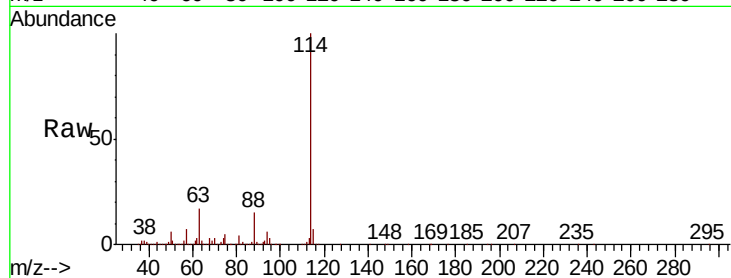




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

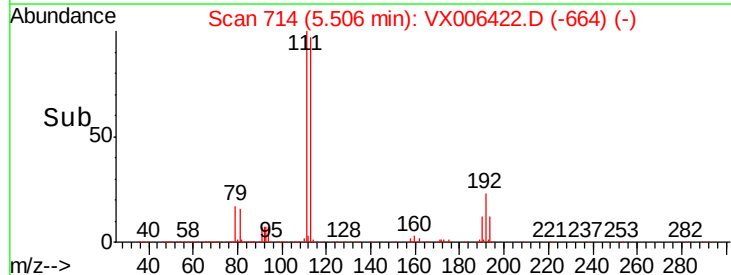
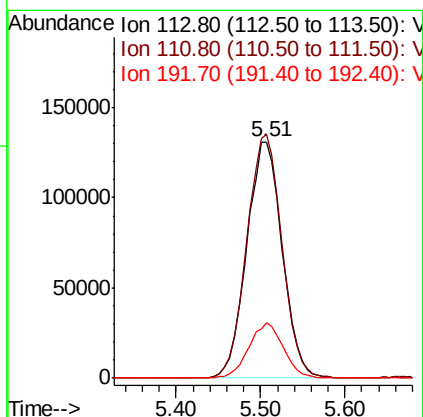
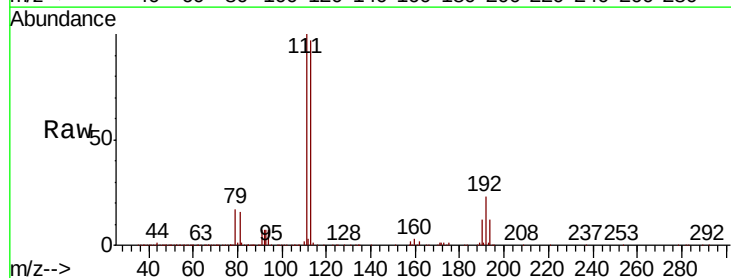
Instrument :  
MSVOA\_X  
ClientSampleId :  
B1-121018

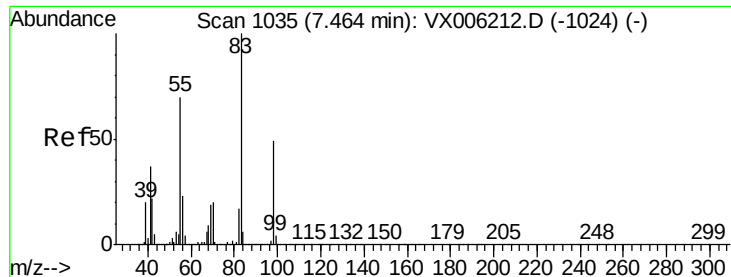
Tot Ion:114 Resp: 1236925  
Ion Ratio Lower Upper  
114 100  
63 17.3 0.0 36.6  
88 15.0 0.0 29.0



#35  
Dibromofluoromethane  
Concen: 46.755 ug/l  
RT: 5.51 min Scan# 714  
Delta R.T. 0.01 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

Tgt Ion:113 Resp: 374443  
Ion Ratio Lower Upper  
113 100  
111 102.3 81.1 121.7  
192 22.8 18.2 27.2

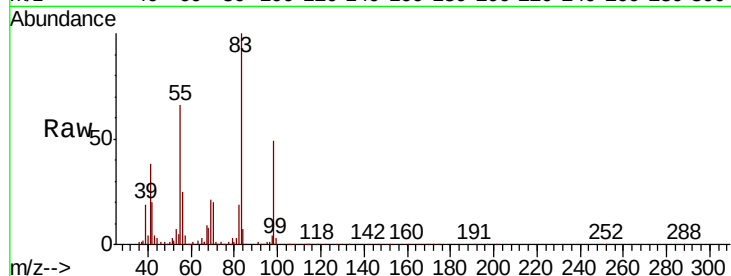




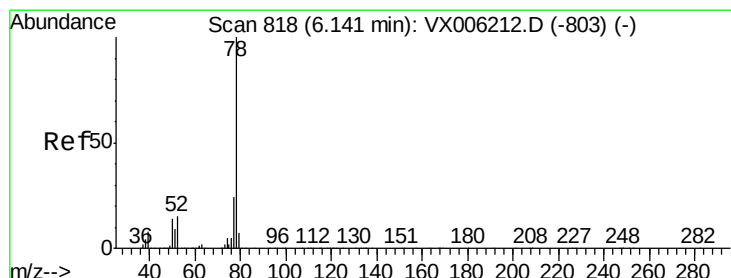
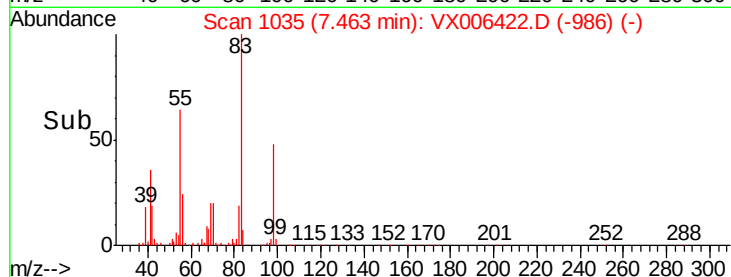
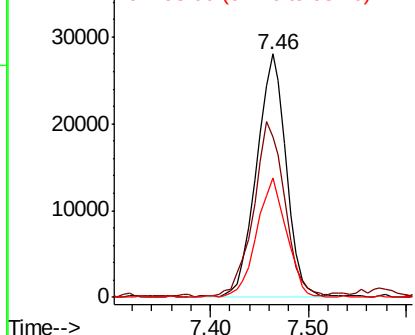
#39  
Methylvlcyclohexane  
Concen: 4.382 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
B1-121018

Tot Ion: 83 Resp: 59253  
Ion Ratio Lower Upper  
83 100  
55 64.7 56.4 84.6  
98 48.6 39.0 58.6

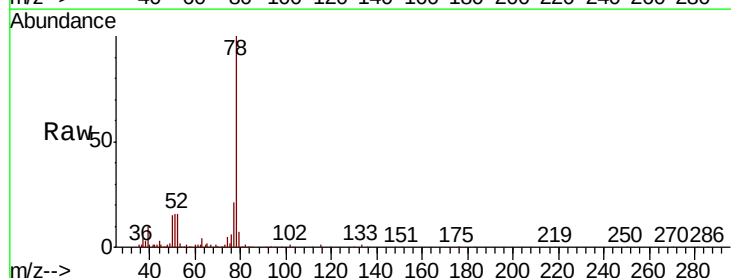


Abundance Ion 83.00 (82.70 to 83.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0

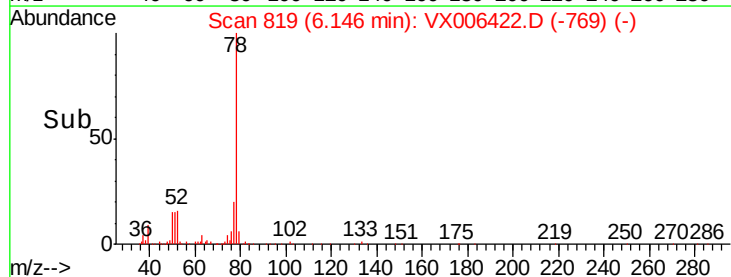
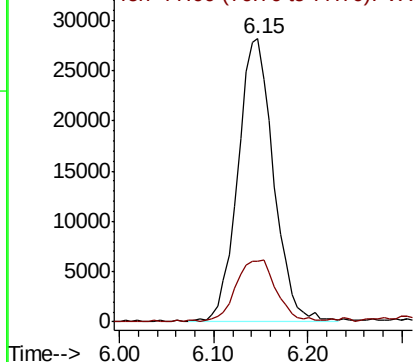


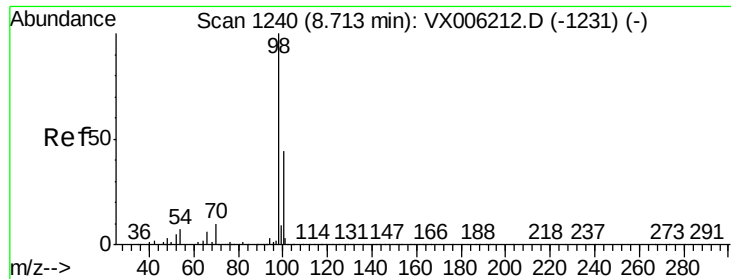
#40  
Benzene  
Concen: 2.400 ug/l  
RT: 6.15 min Scan# 819  
Delta R.T. 0.01 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

Tgt Ion: 78 Resp: 74862  
Ion Ratio Lower Upper  
78 100  
77 21.0 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0  
Ion 77.00 (76.70 to 77.70): VX0

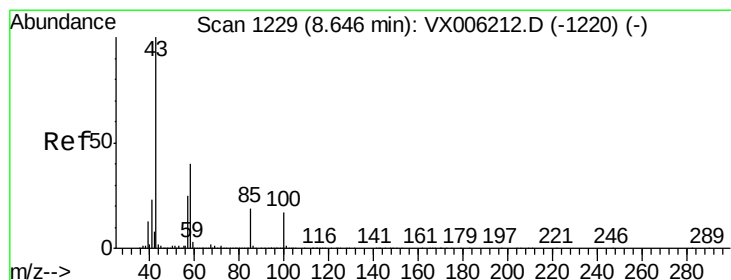
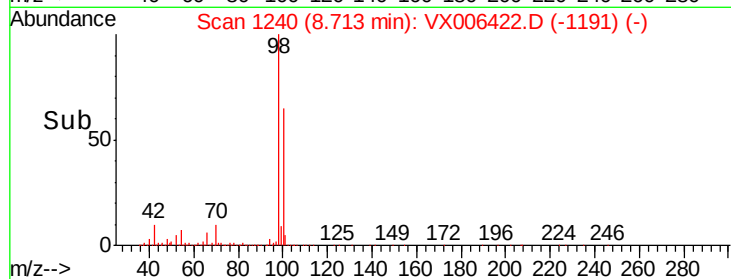
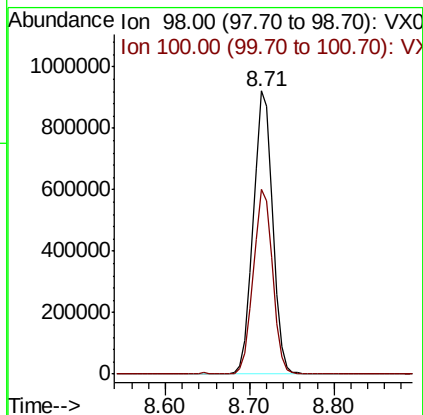
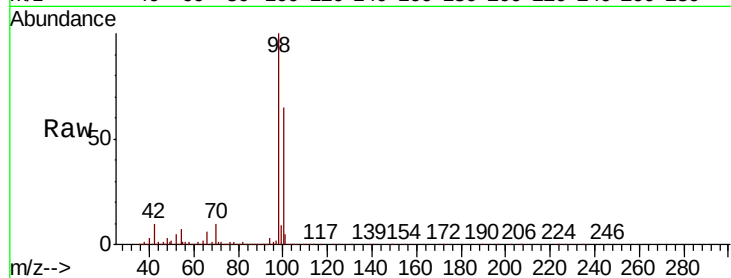




#50  
Toluene-d8  
Concen: 48.973 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

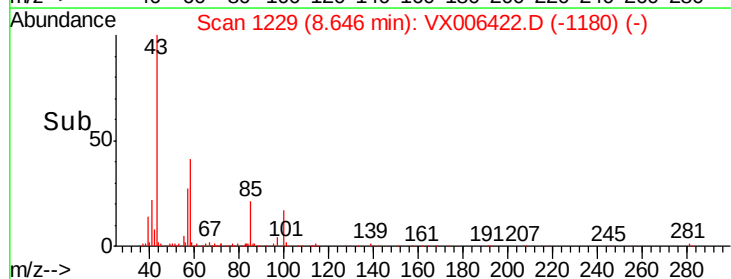
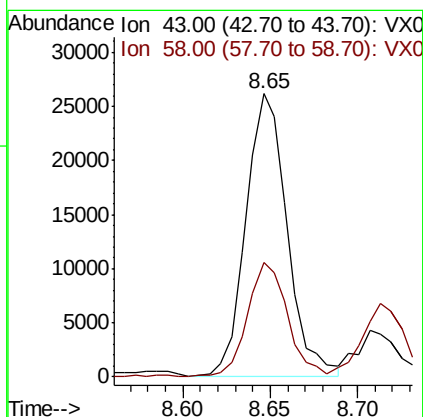
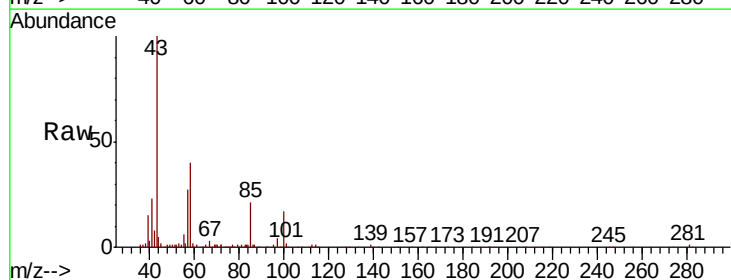
Instrument :  
MSVOA\_X  
ClientSampled :  
B1-121018

Tot Ion: 98 Resp: 1426614  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.2 78.2

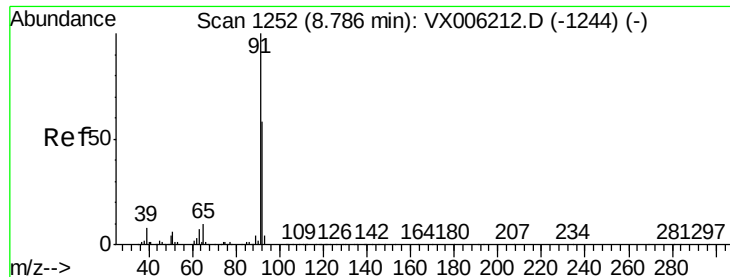


#51  
4-Methyl-2-Pentanone  
Concen: 3.827 ug/l  
RT: 8.65 min Scan# 1229  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

Tgt Ion: 43 Resp: 43327  
Ion Ratio Lower Upper  
43 100  
58 38.3 31.3 46.9







#52

Toluene

Concen: 0.787 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006422.D

Acq: 11 Dec 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

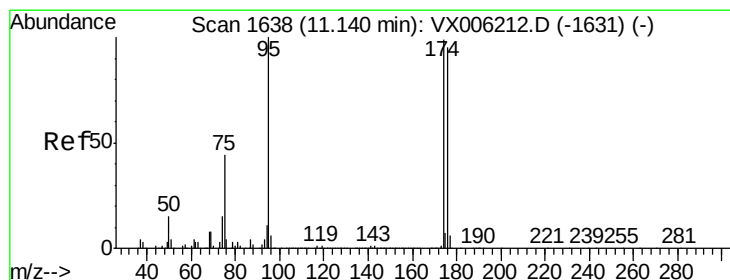
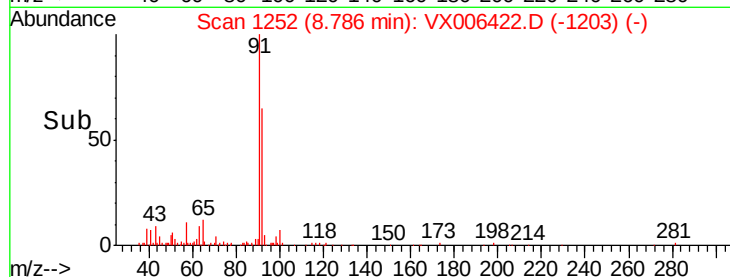
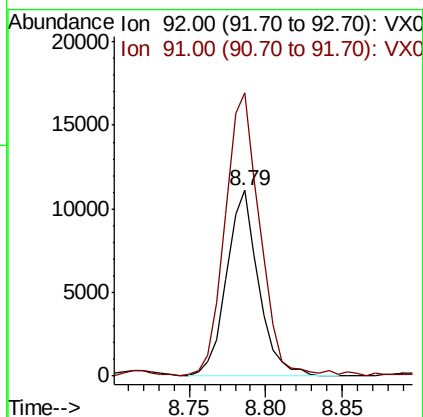
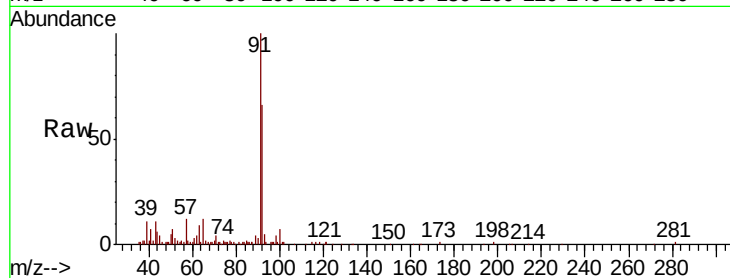
B1-121018

Tot Ion: 92 Resp: 16146

Ion Ratio Lower Upper

92 100

91 164.8 139.2 208.8



#62

4-Bromofluorobenzene

Concen: 47.582 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX006422.D

Acq: 11 Dec 2018 15:58

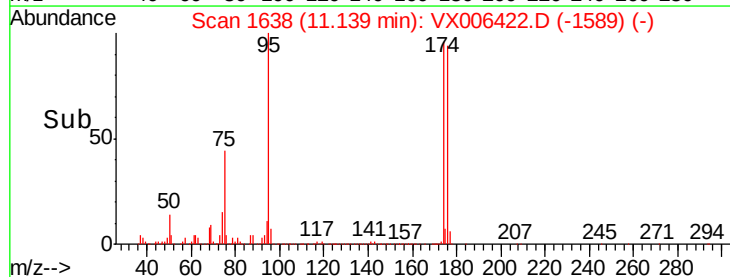
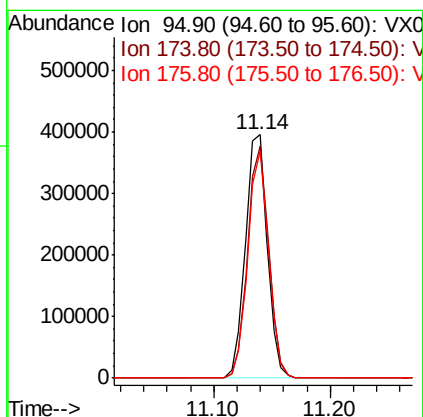
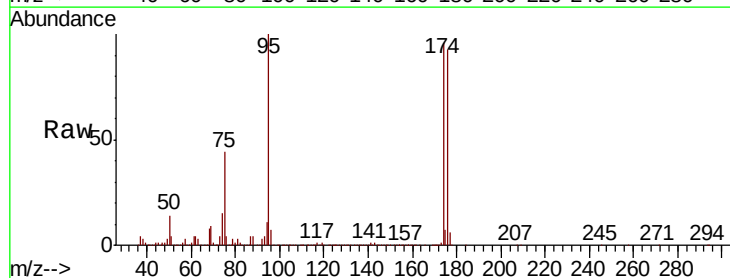
Tgt Ion: 95 Resp: 522317

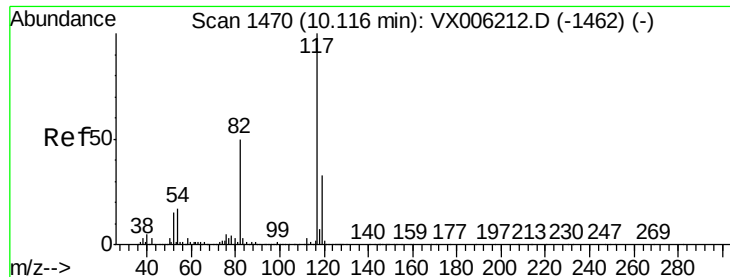
Ion Ratio Lower Upper

95 100

174 92.4 0.0 187.0

176 89.2 0.0 181.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX006422.D

Acq: 11 Dec 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

B1-121018

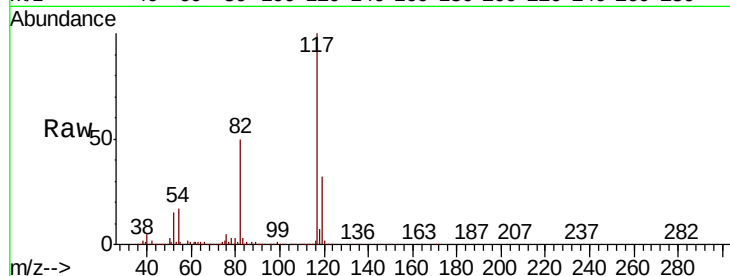
Tot Ion:117 Resp: 1112135

Ion Ratio Lower Upper

117 100

82 49.5 39.6 59.4

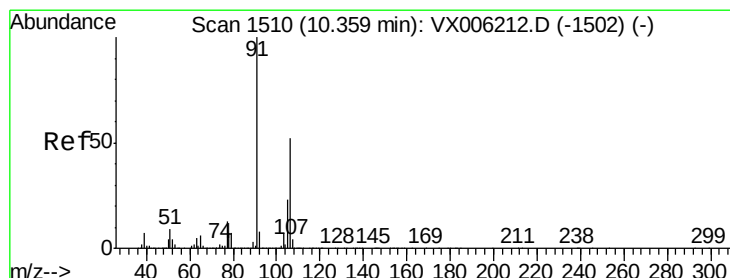
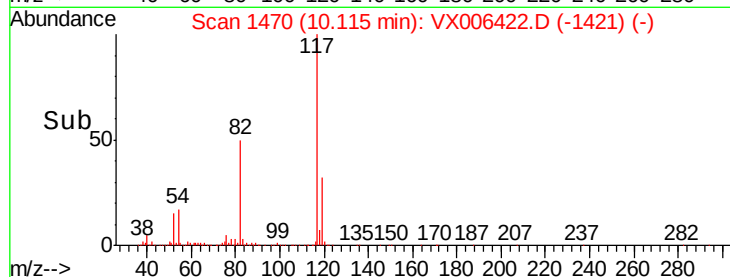
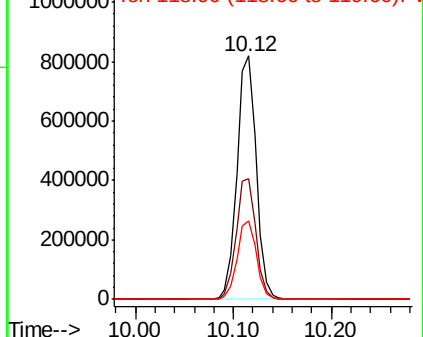
119 32.3 26.3 39.5



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



#68

m/p-Xylenes

Concen: 3.501 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX006422.D

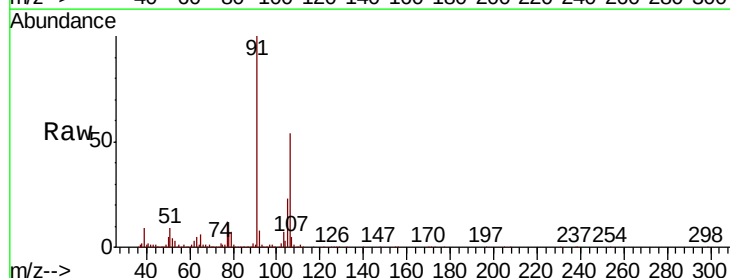
Acq: 11 Dec 2018 15:58

Tgt Ion:106 Resp: 55072

Ion Ratio Lower Upper

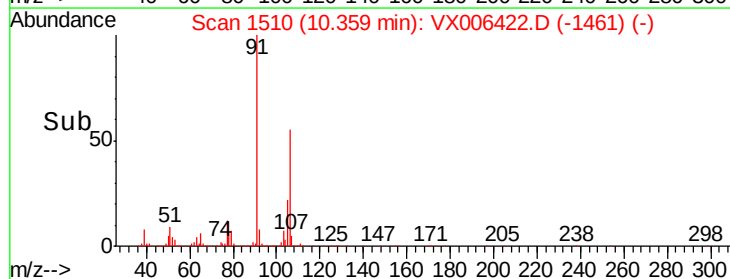
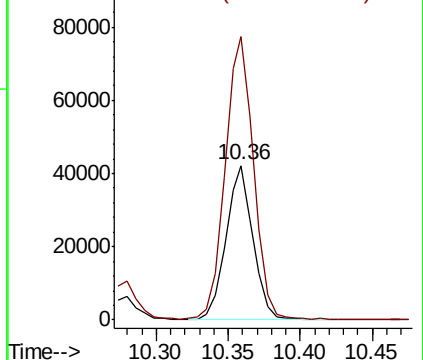
106 100

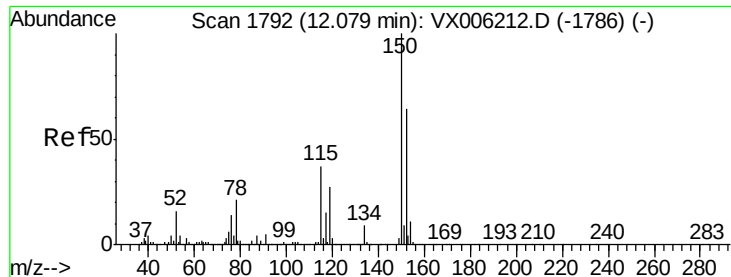
91 192.7 155.2 232.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



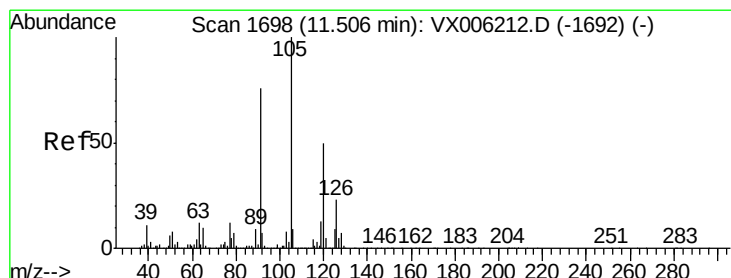
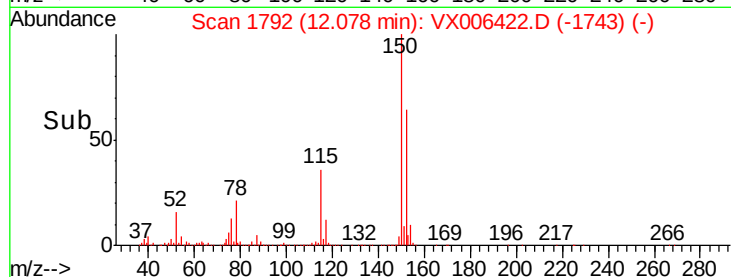
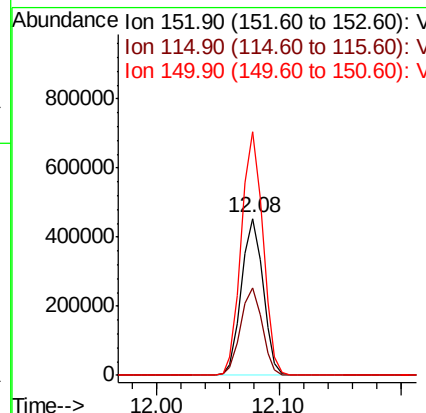
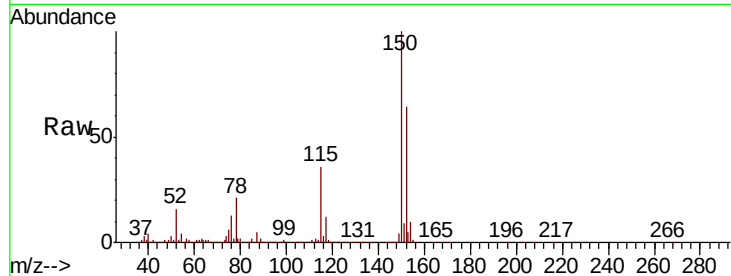


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
B1-121018

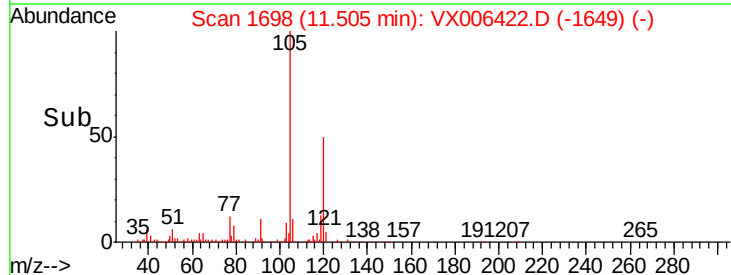
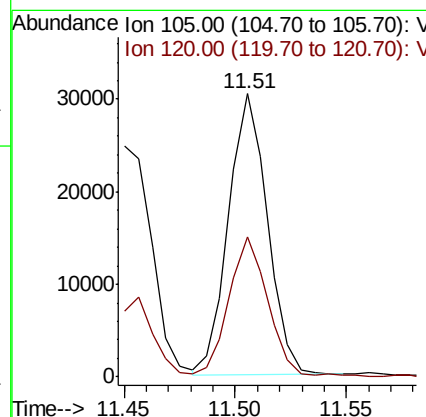
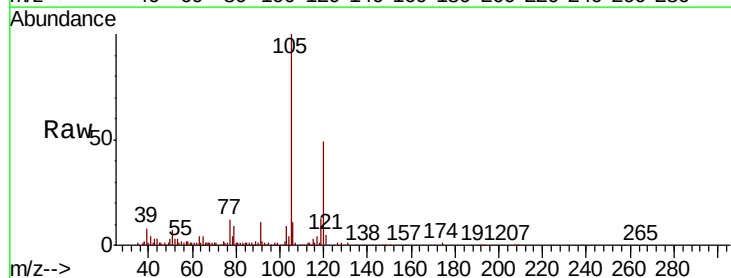
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.6  | 39.0  | 116.9 |
| 150     | 155.2 | 0.0   | 345.8 |

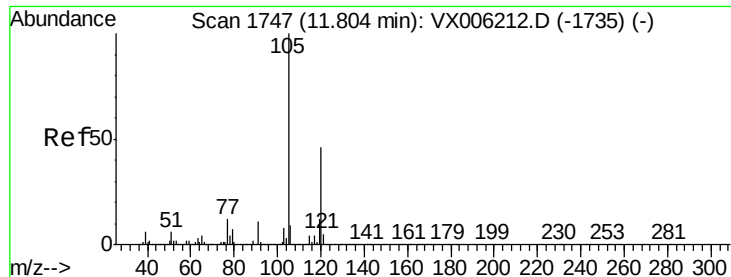


#80

1,3,5-Trimethylbenzene  
Concen: 1.161 ug/l  
RT: 11.51 min Scan# 1698  
Delta R.T. -0.00 min  
Lab File: VX006422.D  
Acq: 11 Dec 2018 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 48.7  | 25.4  | 76.0  |





#84

1,2,4-Trimethylbenzene

Concen: 3.071 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX006422.D

Acq: 11 Dec 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

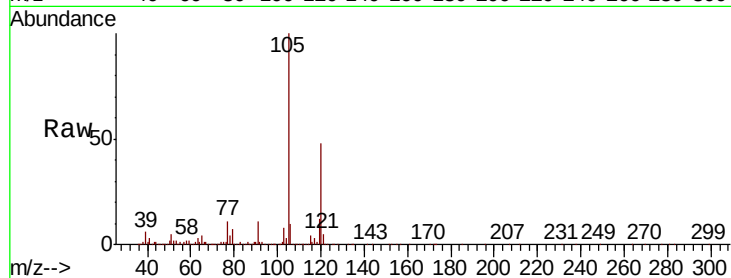
B1-121018

Tot Ion:105 Resp: 100643

Ion Ratio Lower Upper

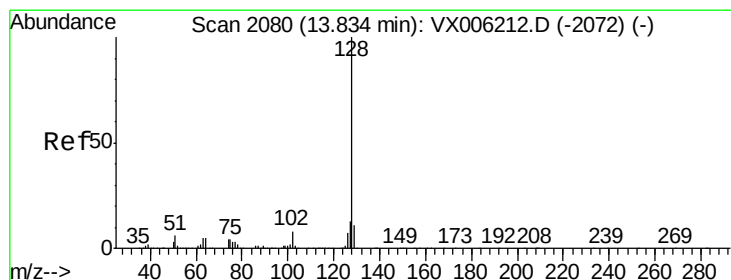
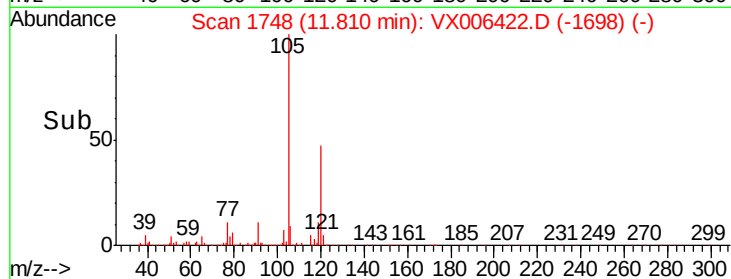
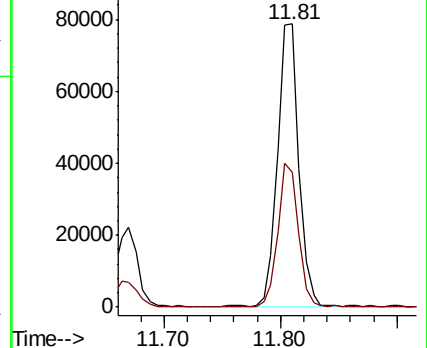
105 100

120 48.8 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 1.943 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006422.D

Acq: 11 Dec 2018 15:58

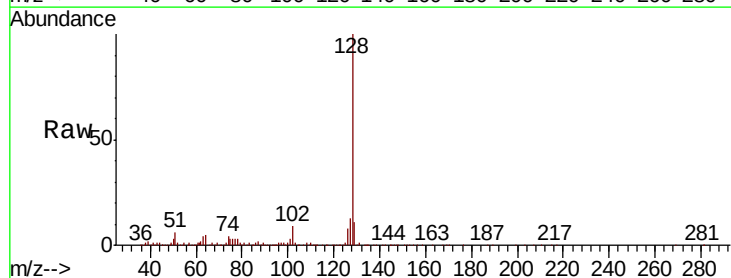
Tgt Ion:128 Resp: 82452

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.4

129 11.9 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

