

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082118\  
 Data File : VX004171.D  
 Acq On : 21 Aug 2018 13:12  
 Operator : JC/MD  
 Sample : J4545-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RB-BASELINE-WATER

Quant Time: Aug 22 01:23:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 13:27:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 306702   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 508011   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 490179   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 270640   | 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   | 217919   | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.86% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 191883   | 50.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.94% |          |
| 50) Toluene-d8              | 8.71  | 98   | 724963   | 47.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.06%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 271056   | 48.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.96%  |          |

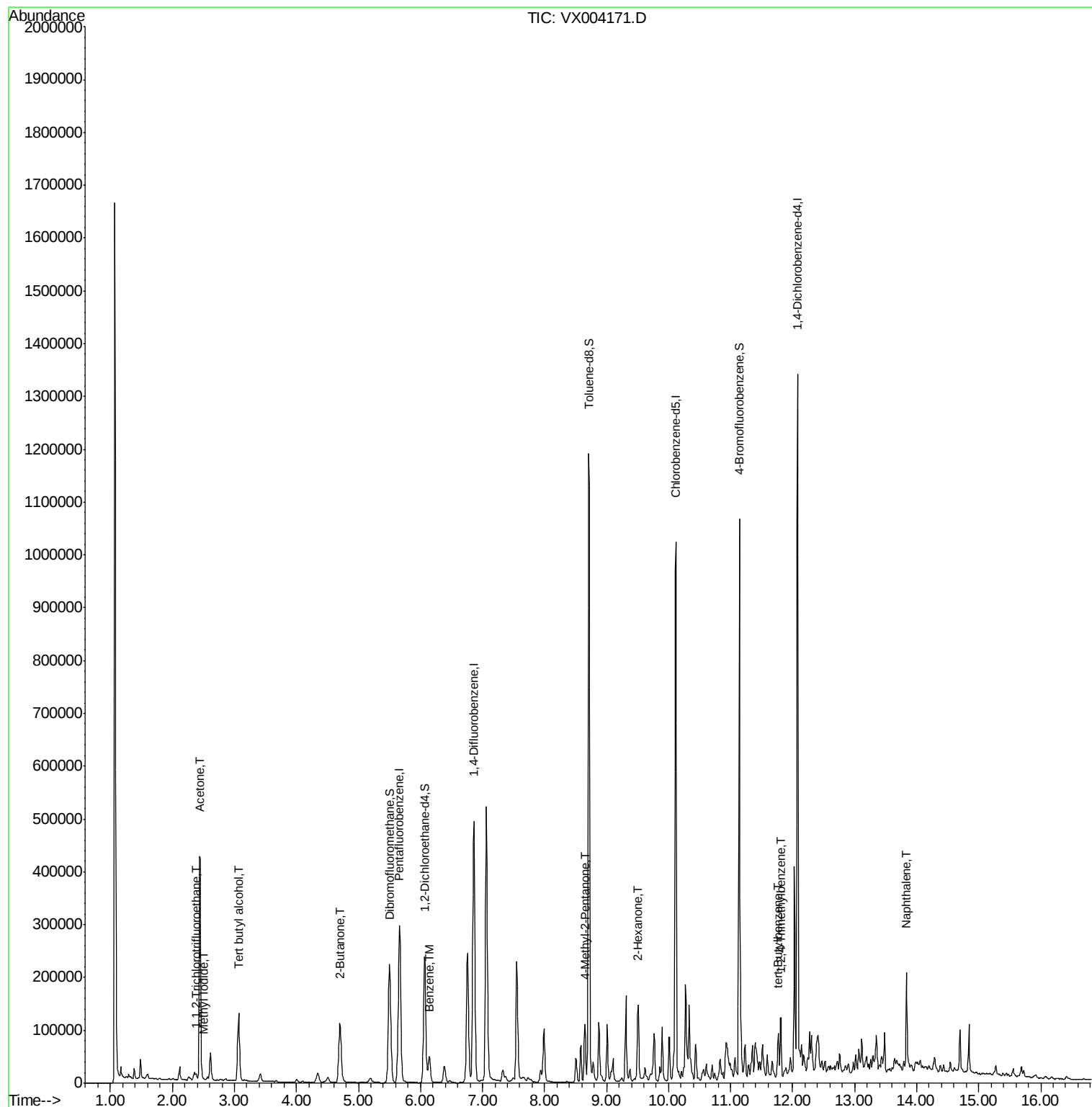
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|-------|------|----------|--------|-------|--------|
| 9) 1,1,2-Trichlorotrifluoroet | 2.39  | 101  | 4395     | 1.27   | ug/l  | 95     |
| 10) Methyl Iodide             | 2.51  | 142  | 1147     | 5.29   | ug/l  | # 87   |
| 11) Tert butyl alcohol        | 3.07  | 59   | 158098   | 181.68 | ug/l  | 99     |
| 16) Acetone                   | 2.44  | 43   | 452490   | 201.40 | ug/l  | 99     |
| 25) 2-Butanone                | 4.70  | 43   | 197025   | 53.90  | ug/l  | 99     |
| 40) Benzene                   | 6.14  | 78   | 60384    | 3.48   | ug/l  | 97     |
| 51) 4-Methyl-2-Pentanone      | 8.65  | 43   | 61947    | 8.14   | ug/l  | 99     |
| 59) 2-Hexanone                | 9.50  | 43   | 56194    | 9.81   | ug/l  | 85     |
| 83) tert-Butylbenzene         | 11.77 | 119  | 30282    | 2.00   | ug/l  | 91     |
| 84) 1,2,4-Trimethylbenzene    | 11.81 | 105  | 26389    | 1.70   | ug/l  | 98     |
| 95) Naphthalene               | 13.83 | 128  | 110804   | 6.87   | ug/l  | 97     |

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

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Sample : J4545-02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-BASELINE-WATER

Quant Time: Aug 22 01:23:11 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 14 13:27:25 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX004171.D

Acq: 21 Aug 2018 13:12

Instrument :

MSVOA\_X

ClientSampleId :

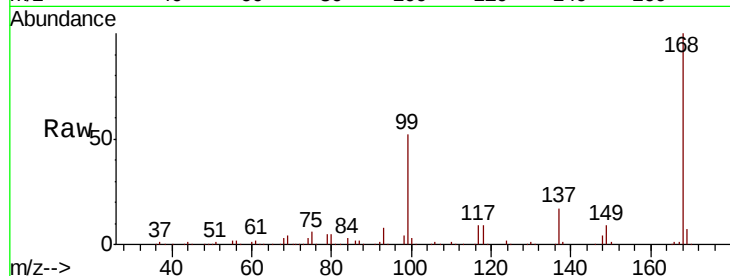
RB-BASELINE-WATER

Tot Ion:168 Resp: 306702

Ion Ratio Lower Upper

168 100

99 51.8 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

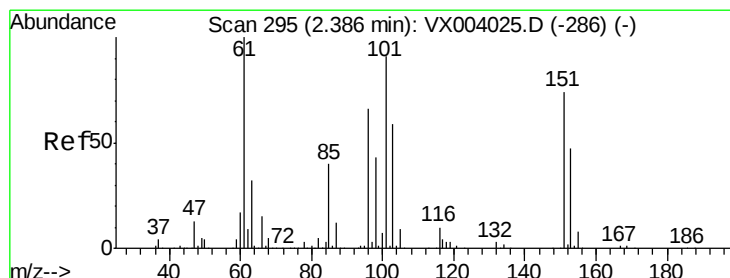
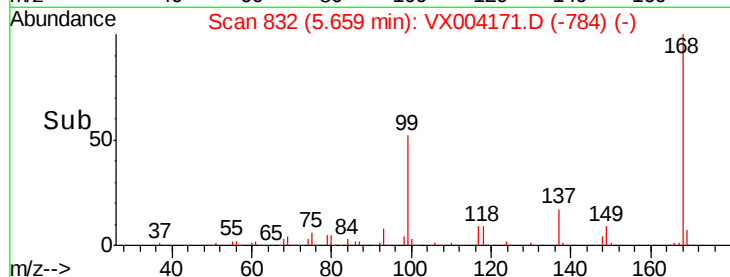
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.27 ug/l

RT: 2.39 min Scan# 295

Delta R.T. -0.00 min

Lab File: VX004171.D

Acq: 21 Aug 2018 13:12

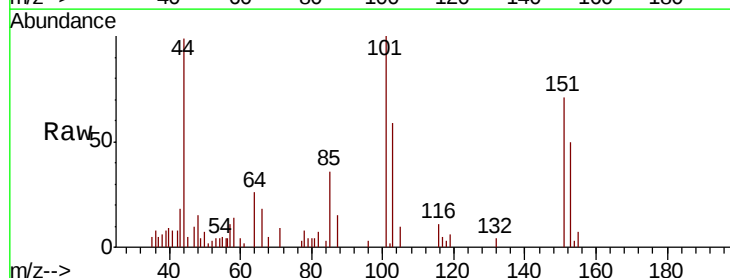
Tgt Ion:101 Resp: 4395

Ion Ratio Lower Upper

101 100

85 40.5 34.2 51.4

151 75.9 65.0 97.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

3000

2500

2000

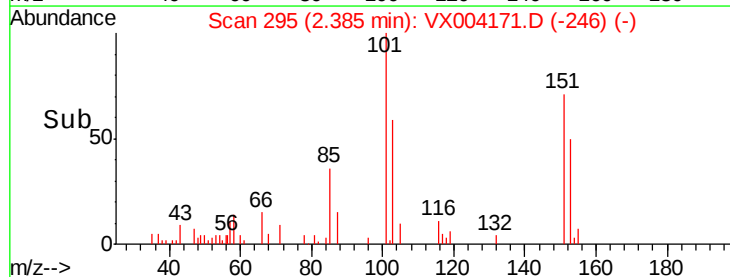
1500

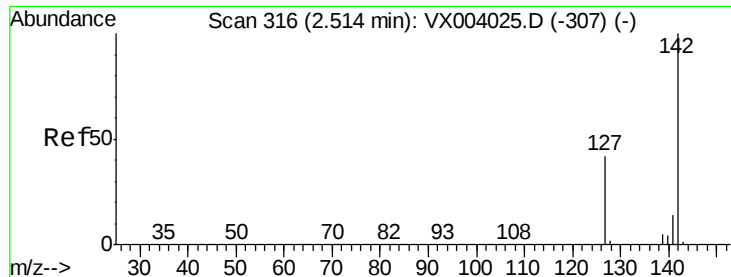
1000

500

0

Time--> 2.30 2.35 2.40 2.45

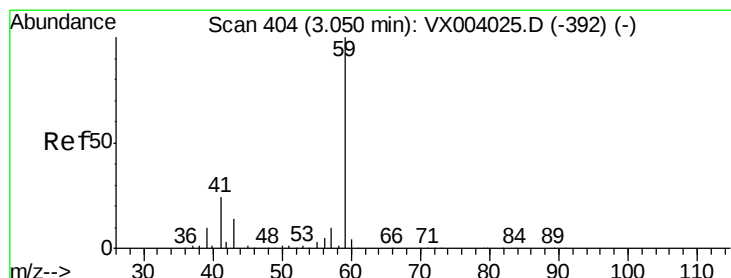
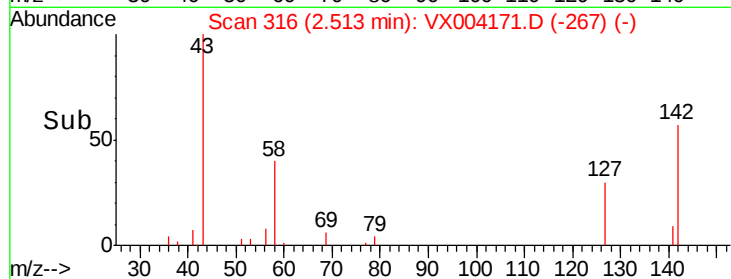
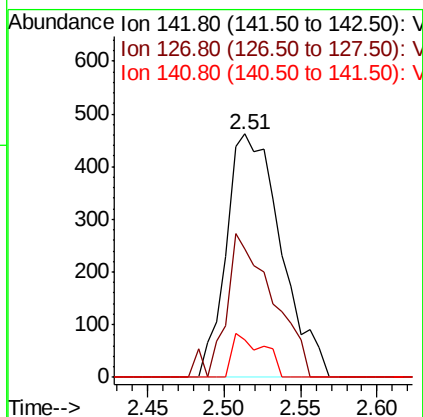
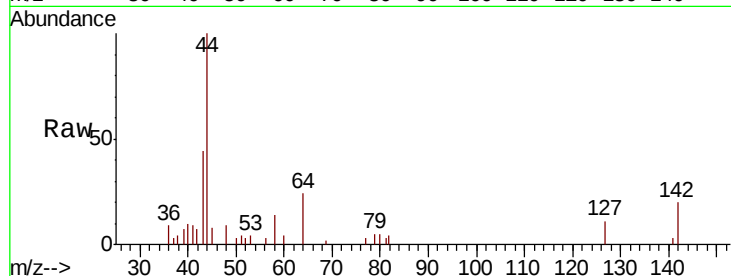




#10  
Methyl Iodide  
Concen: 5.29 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

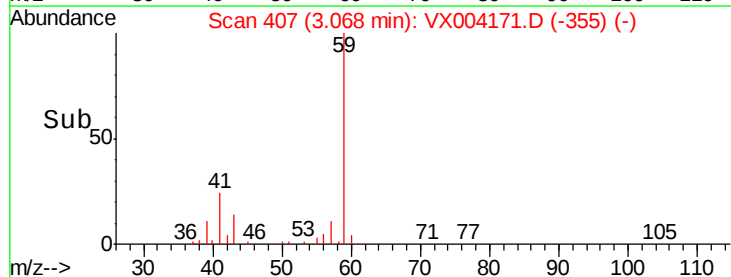
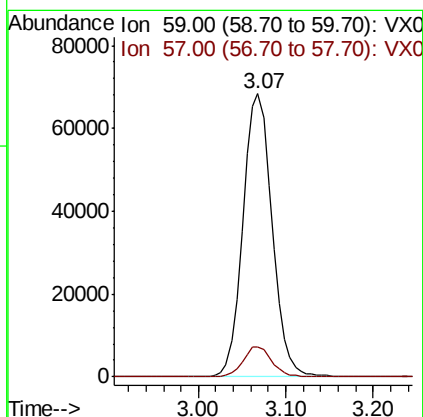
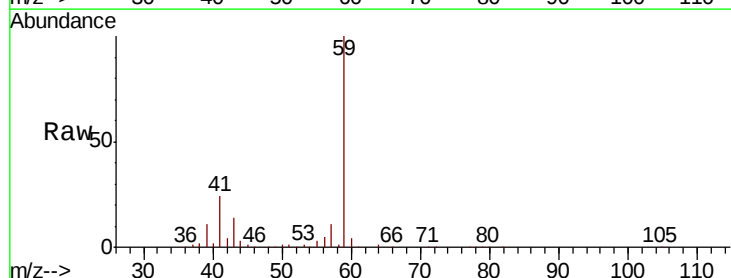
Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-BASELINE-WATER

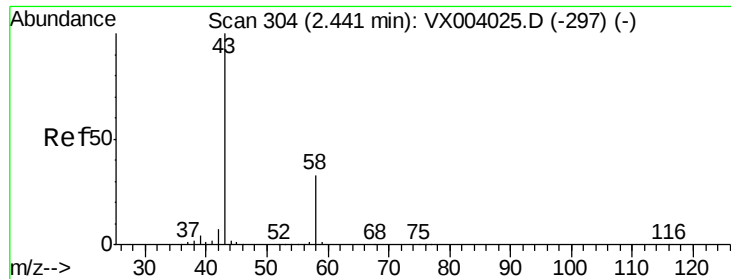
Tot Ion:142 Resp: 1147  
Ion Ratio Lower Upper  
142 100  
127 50.6 33.1 49.7#  
141 10.3 11.1 16.7#



#11  
Tert butyl alcohol  
Concen: 181.68 ug/l  
RT: 3.07 min Scan# 407  
Delta R.T. 0.02 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Tgt Ion: 59 Resp: 158098  
Ion Ratio Lower Upper  
59 100  
57 10.5 8.1 12.1





#16

Acetone

Concen: 201.40 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004171.D

Acq: 21 Aug 2018 13:12

Instrument :

MSVOA\_X

ClientSampleId :

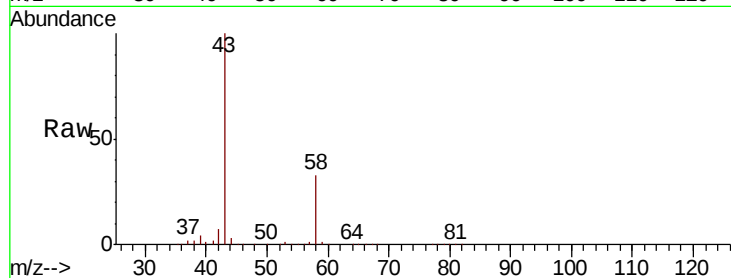
RB-BASELINE-WATER

Tot Ion: 43 Resp: 452490

Ion Ratio Lower Upper

43 100

58 32.6 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

300000

250000

200000

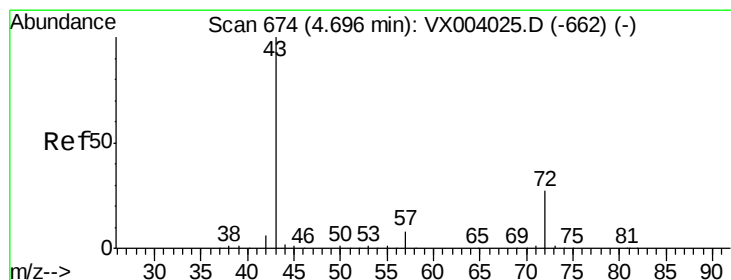
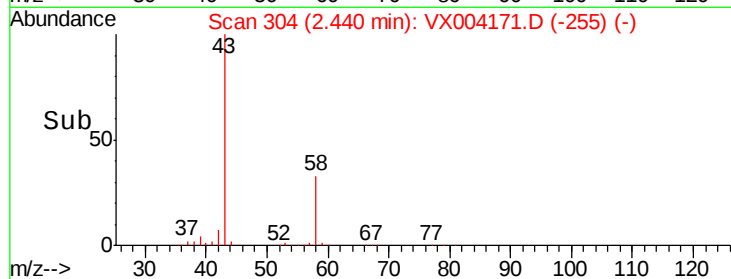
150000

100000

50000

0

Time-->



#25

2-Butanone

Concen: 53.90 ug/l

RT: 4.70 min Scan# 675

Delta R.T. 0.01 min

Lab File: VX004171.D

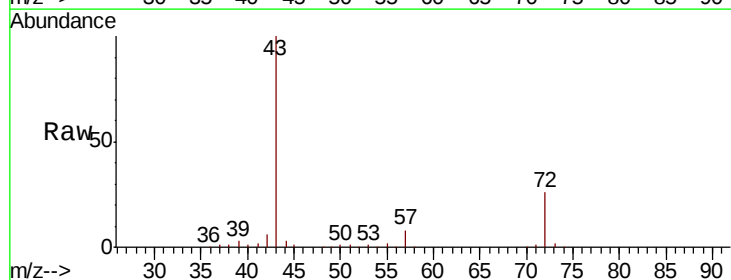
Acq: 21 Aug 2018 13:12

Tgt Ion: 43 Resp: 197025

Ion Ratio Lower Upper

43 100

72 26.2 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

80000

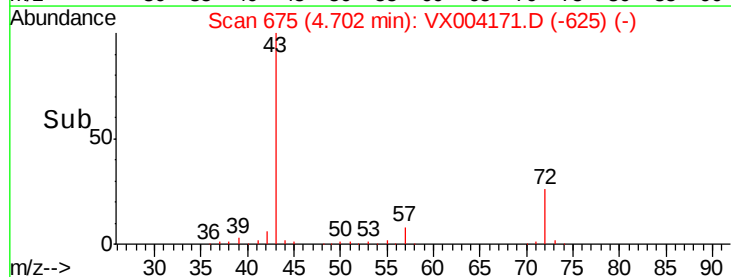
60000

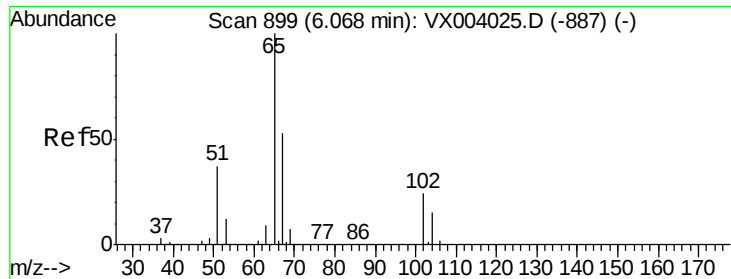
40000

20000

0

Time-->

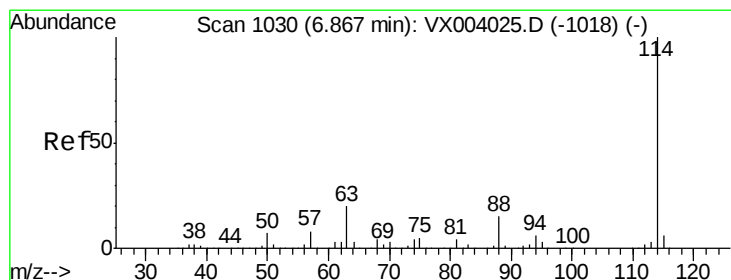
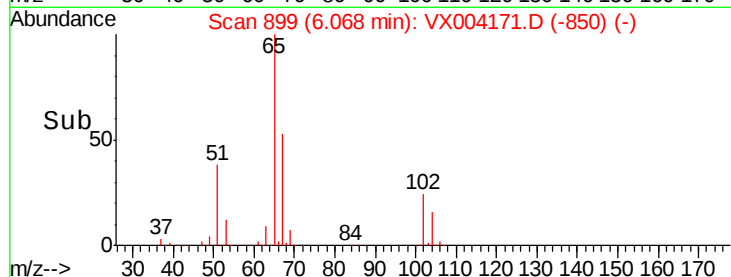
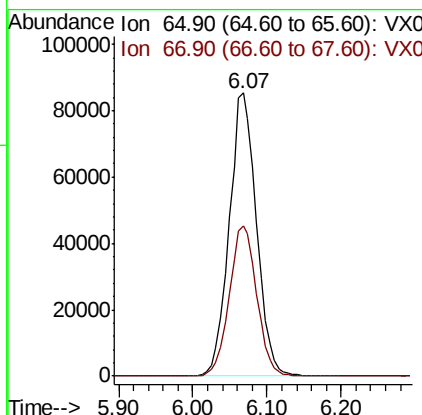
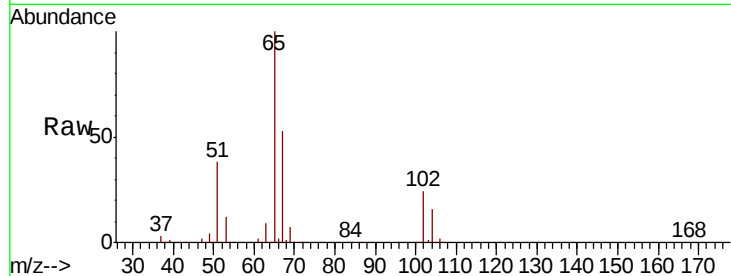




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.43 ug/l  
 RT: 6.07 min Scan# 899  
 Delta R.T. -0.00 min  
 Lab File: VX004171.D  
 Acq: 21 Aug 2018 13:12

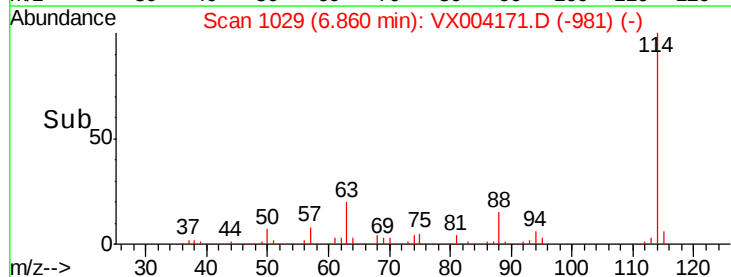
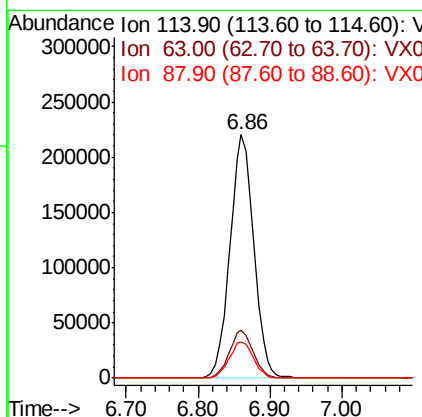
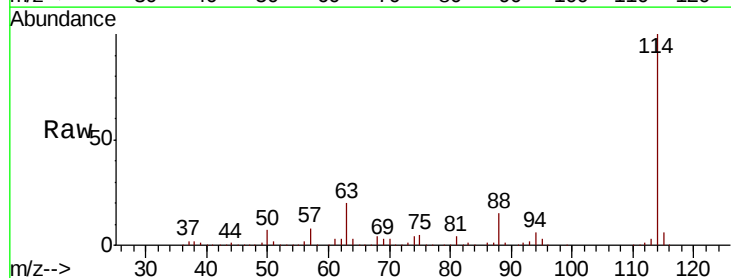
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RB-BASELINE-WATER

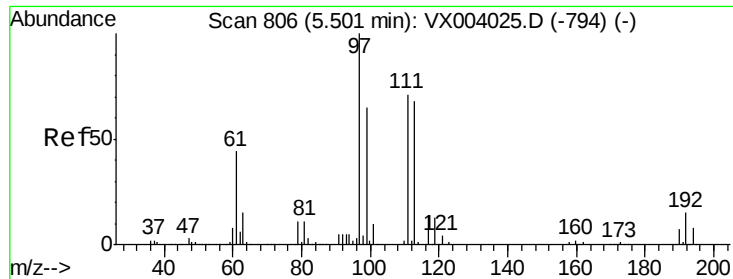
Tot Ion: 65 Resp: 217919  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: VX004171.D  
 Acq: 21 Aug 2018 13:12

Tgt Ion: 114 Resp: 508011  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 39.0  
 88 14.9 0.0 32.0

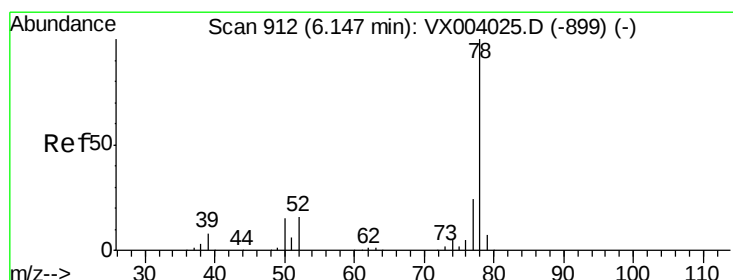
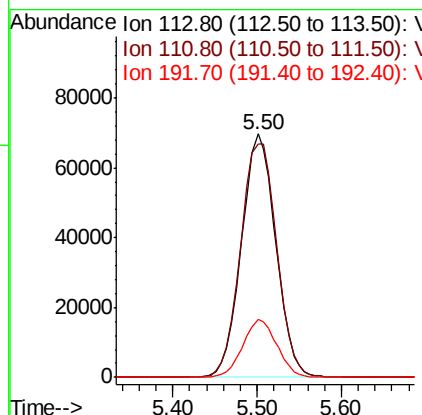
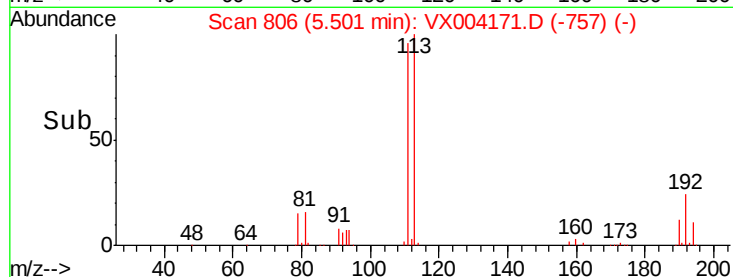
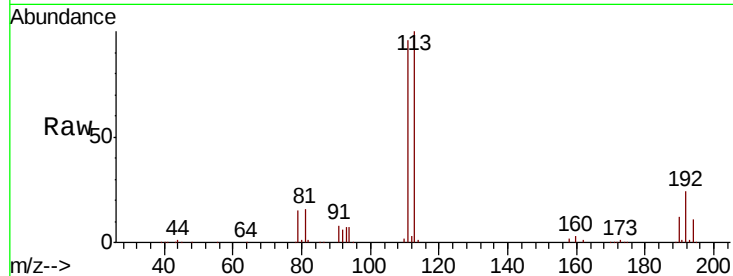




#35  
 Dibromofluoromethane  
 Concen: 50.47 ug/l  
 RT: 5.50 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX004171.D  
 Acq: 21 Aug 2018 13:12

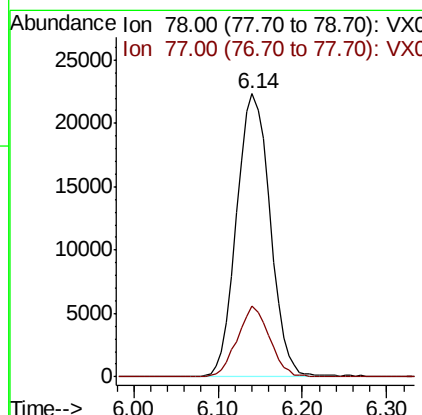
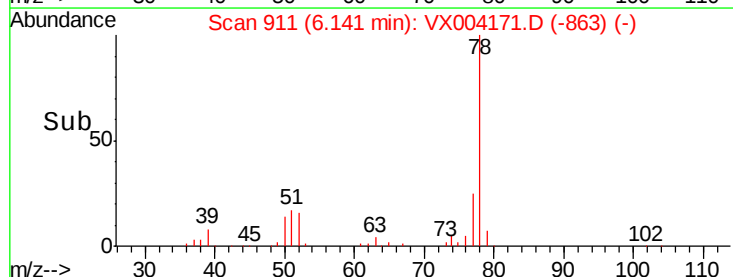
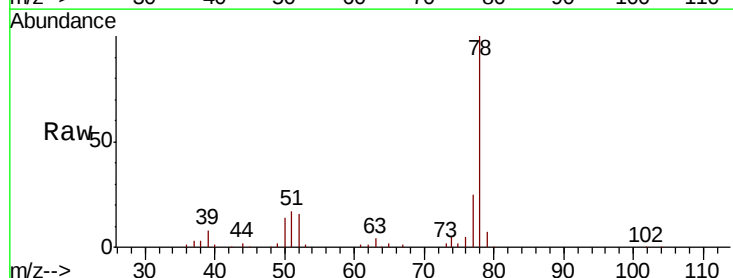
Instrument :  
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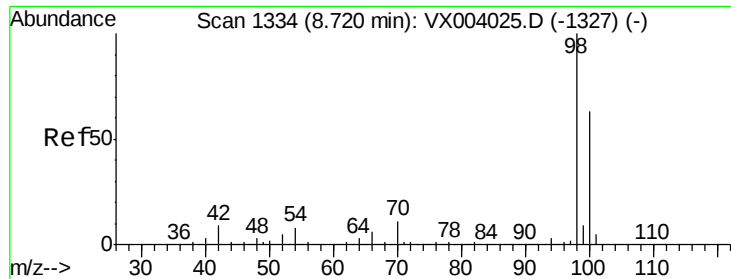
Tot Ion:113 Resp: 191883  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 82.0 123.0  
 192 23.7 19.0 28.4



#40  
 Benzene  
 Concen: 3.48 ug/l  
 RT: 6.14 min Scan# 911  
 Delta R.T. -0.01 min  
 Lab File: VX004171.D  
 Acq: 21 Aug 2018 13:12

Tgt Ion: 78 Resp: 60384  
 Ion Ratio Lower Upper  
 78 100  
 77 25.2 19.0 28.4

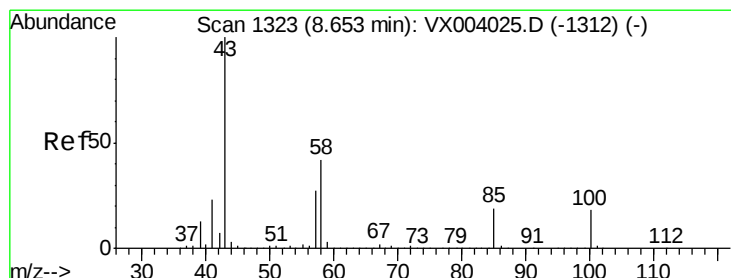
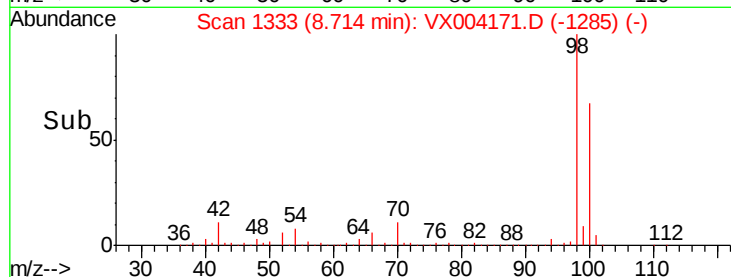
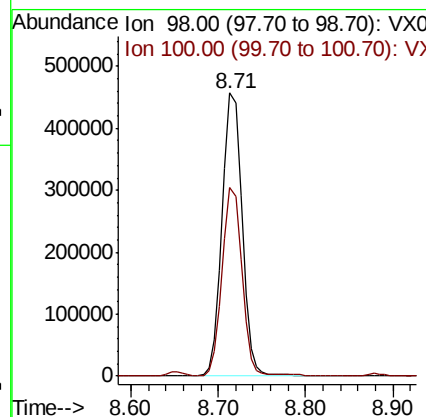
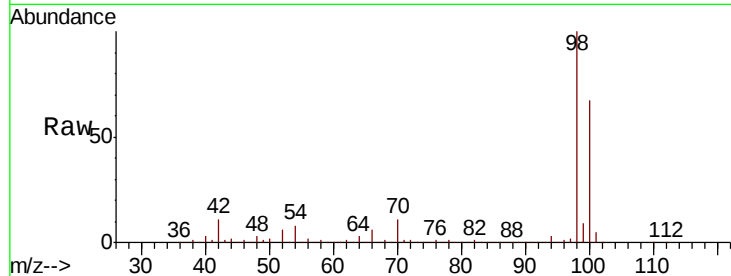




#50  
Toluene-d8  
Concen: 47.03 ug/l  
RT: 8.71 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

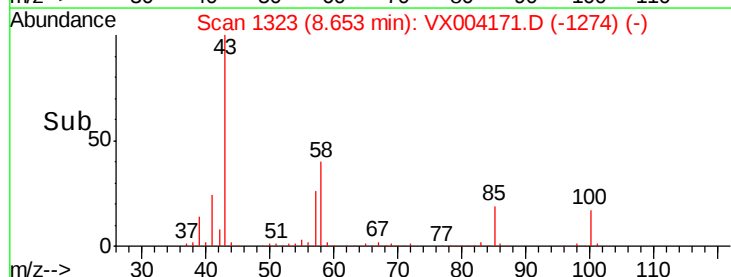
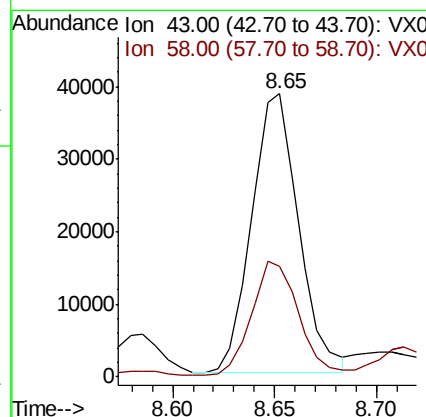
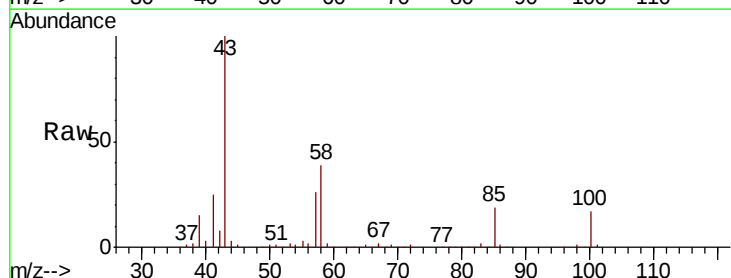
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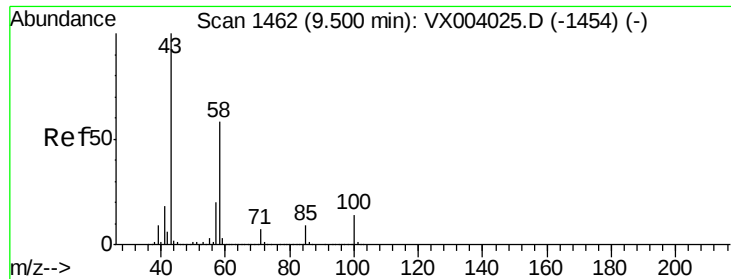
Tot Ion: 98 Resp: 724963  
Ion Ratio Lower Upper  
98 100  
100 65.1 53.3 79.9



#51  
4-Methyl-2-Pentanone  
Concen: 8.14 ug/l  
RT: 8.65 min Scan# 1323  
Delta R.T. -0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Tgt Ion: 43 Resp: 61947  
Ion Ratio Lower Upper  
43 100  
58 41.7 33.0 49.6

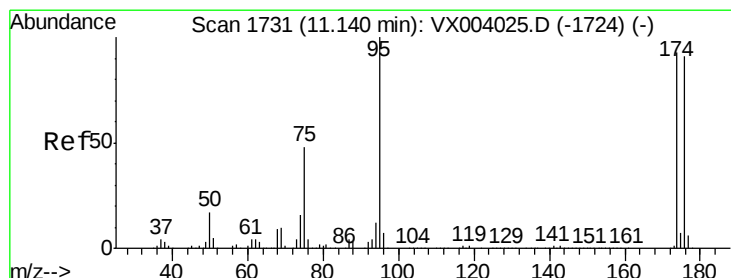
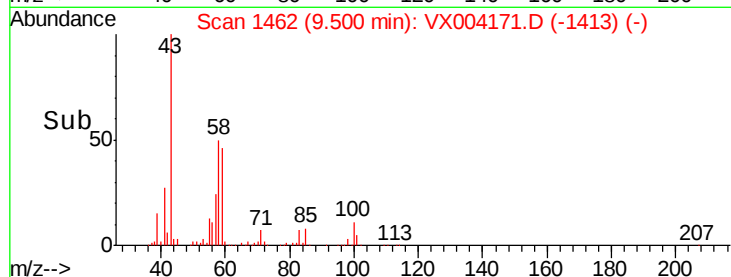
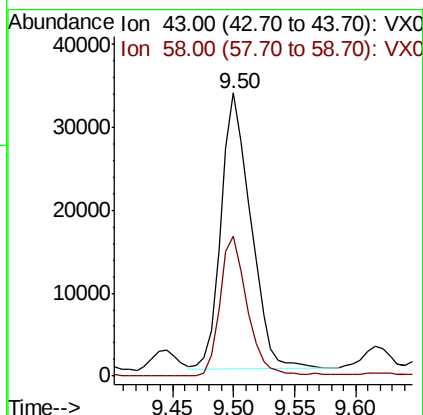
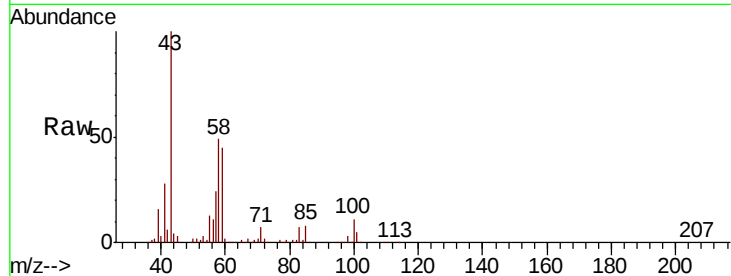




#59  
2-Hexanone  
Concen: 9.81 ug/l  
RT: 9.50 min Scan# 1462  
Delta R.T. -0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

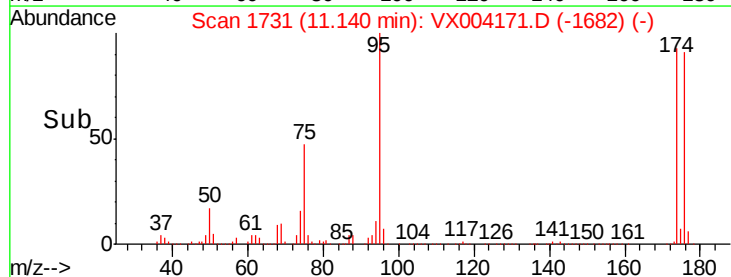
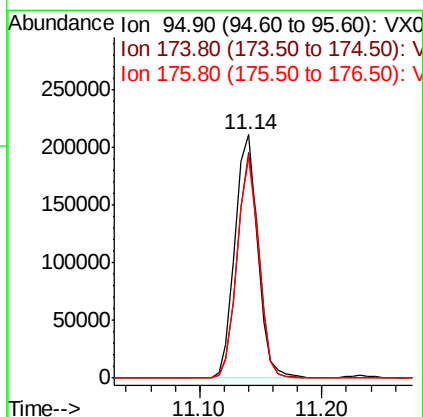
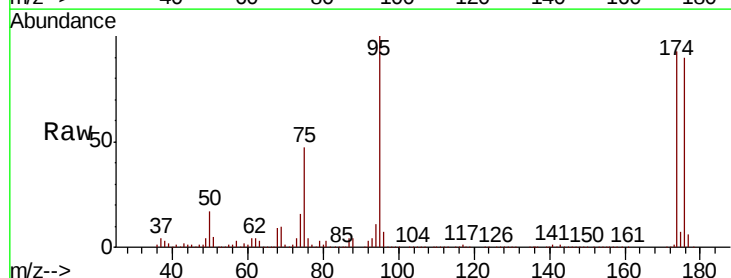
Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-BASELINE-WATER

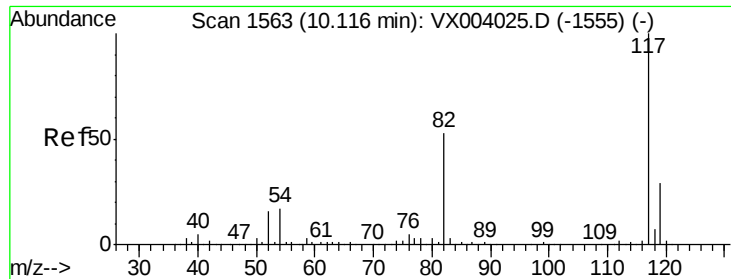
Tot Ion: 43 Resp: 56194  
Ion Ratio Lower Upper  
43 100  
58 46.7 29.0 87.0



#62  
4-Bromofluorobenzene  
Concen: 48.48 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Tgt Ion: 95 Resp: 271056  
Ion Ratio Lower Upper  
95 100  
174 87.9 0.0 182.8  
176 86.1 0.0 179.0

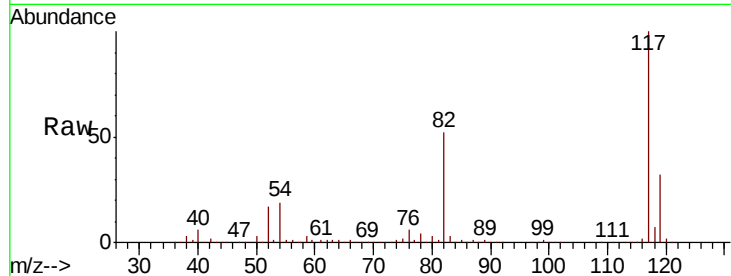




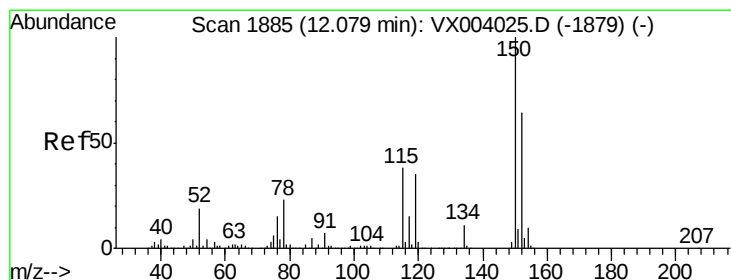
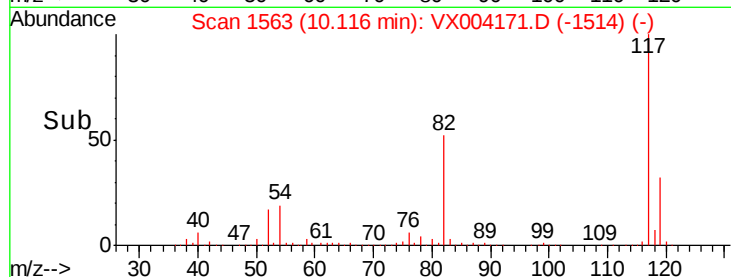
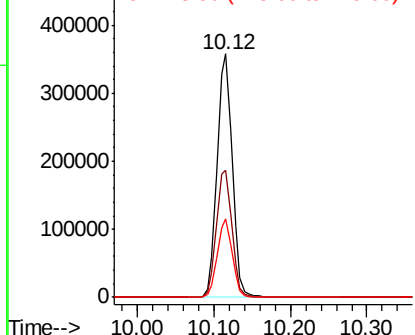
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-BASELINE-WATER

Tot Ion:117 Resp: 490179  
Ion Ratio Lower Upper  
117 100  
82 52.1 45.4 68.0  
119 32.4 26.6 40.0

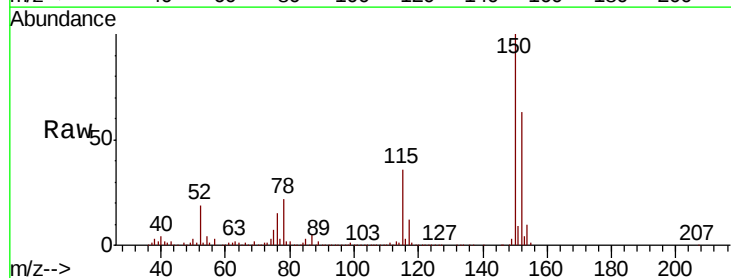


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

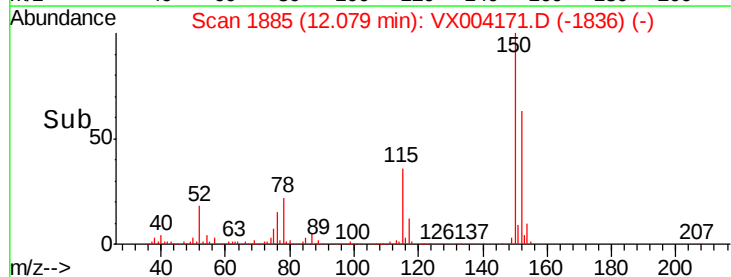
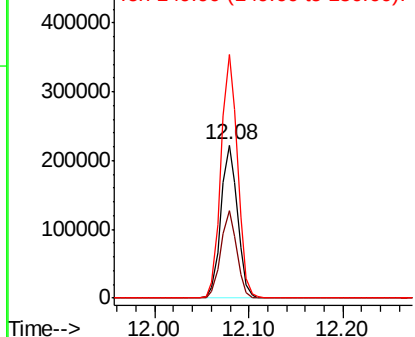


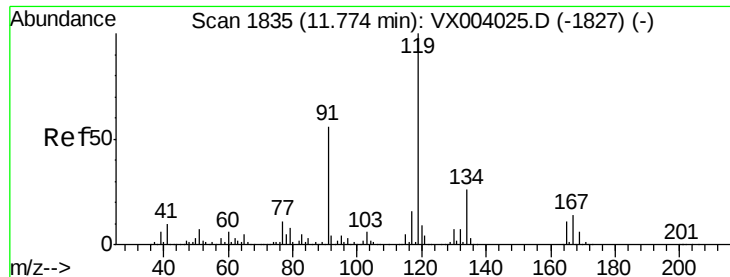
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. -0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Tgt Ion:152 Resp: 270640  
Ion Ratio Lower Upper  
152 100  
115 55.2 39.1 117.3  
150 159.8 0.0 349.2



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

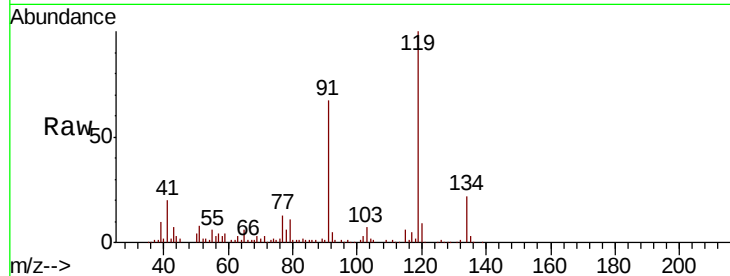




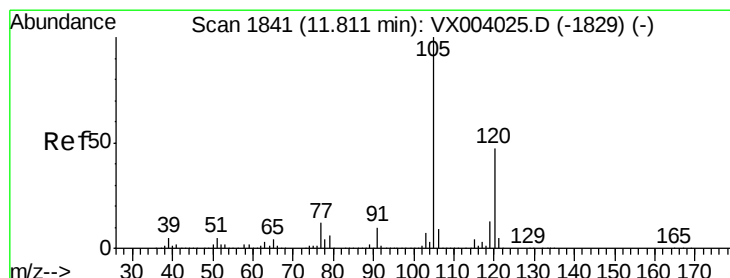
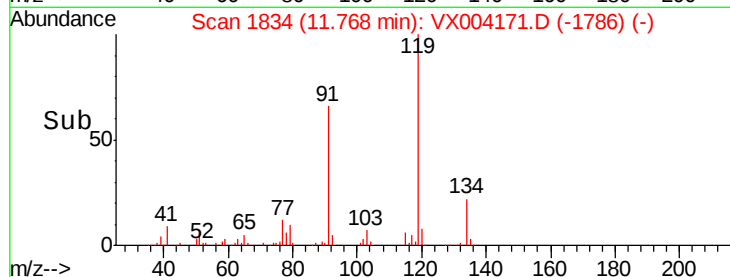
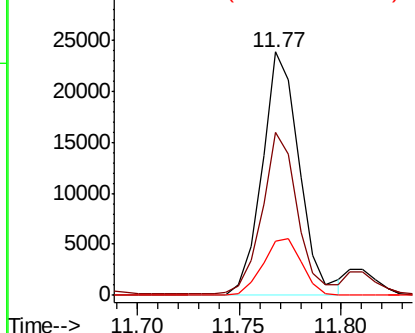
#83  
tert-Butylbenzene  
Concen: 2.00 ug/l  
RT: 11.77 min Scan# 1834  
Delta R.T. -0.01 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-BASELINE-WATER

Tot Ion:119 Resp: 30282  
Ion Ratio Lower Upper  
119 100  
91 62.5 26.9 80.7  
134 24.4 12.0 36.0

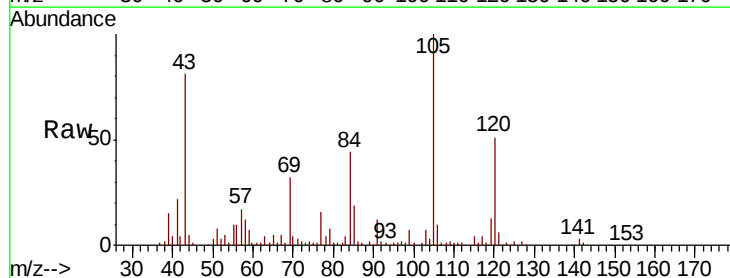


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VX0  
Ion 134.00 (133.70 to 134.70): V

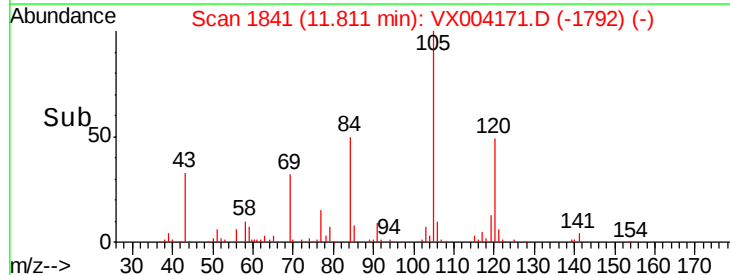
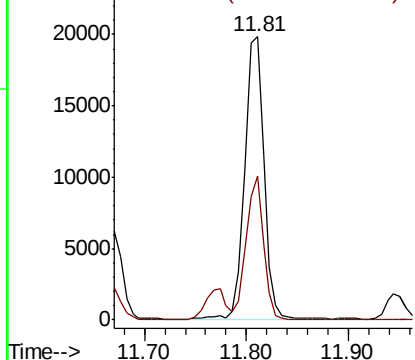


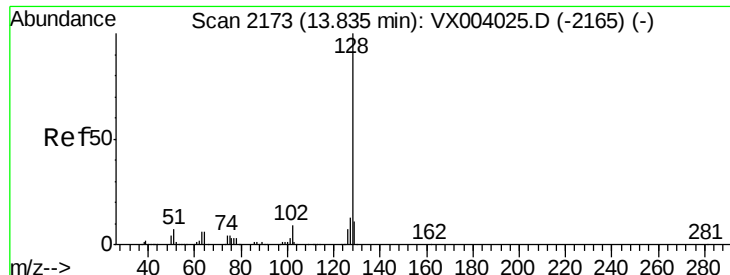
#84  
1,2,4-Trimethylbenzene  
Concen: 1.70 ug/l  
RT: 11.81 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Tgt Ion:105 Resp: 26389  
Ion Ratio Lower Upper  
105 100  
120 44.9 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#95  
Naphthalene  
Concen: 6.87 ug/l  
RT: 13.83 min Scan# 2173  
Delta R.T. 0.00 min  
Lab File: VX004171.D  
Acq: 21 Aug 2018 13:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-BASELINE-WATER

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.7  | 10.2  | 15.2  |
| 129     | 12.1  | 8.8   | 13.2  |

