

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082918\  
 Data File : VF060174.D  
 Acq On : 29 Aug 2018 4:38  
 Operator : VA/AP  
 Sample : VF0829SBL01  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0829SBL01

Quant Time: Aug 29 07:45:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F082918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 29 03:22:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 79650    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 88363    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.90  | 117  | 74495    | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 31435    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.00   | 65  | 22595    | 45.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.84%  |      |
| 35) Dibromofluoromethane    | 4.28   | 113 | 27051    | 47.59 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.18%  |      |
| 50) Toluene-d8              | 7.71   | 98  | 101141   | 52.01 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.02% |      |
| 62) 4-Bromofluorobenzene    | 11.50  | 95  | 32728    | 45.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.28%  |      |

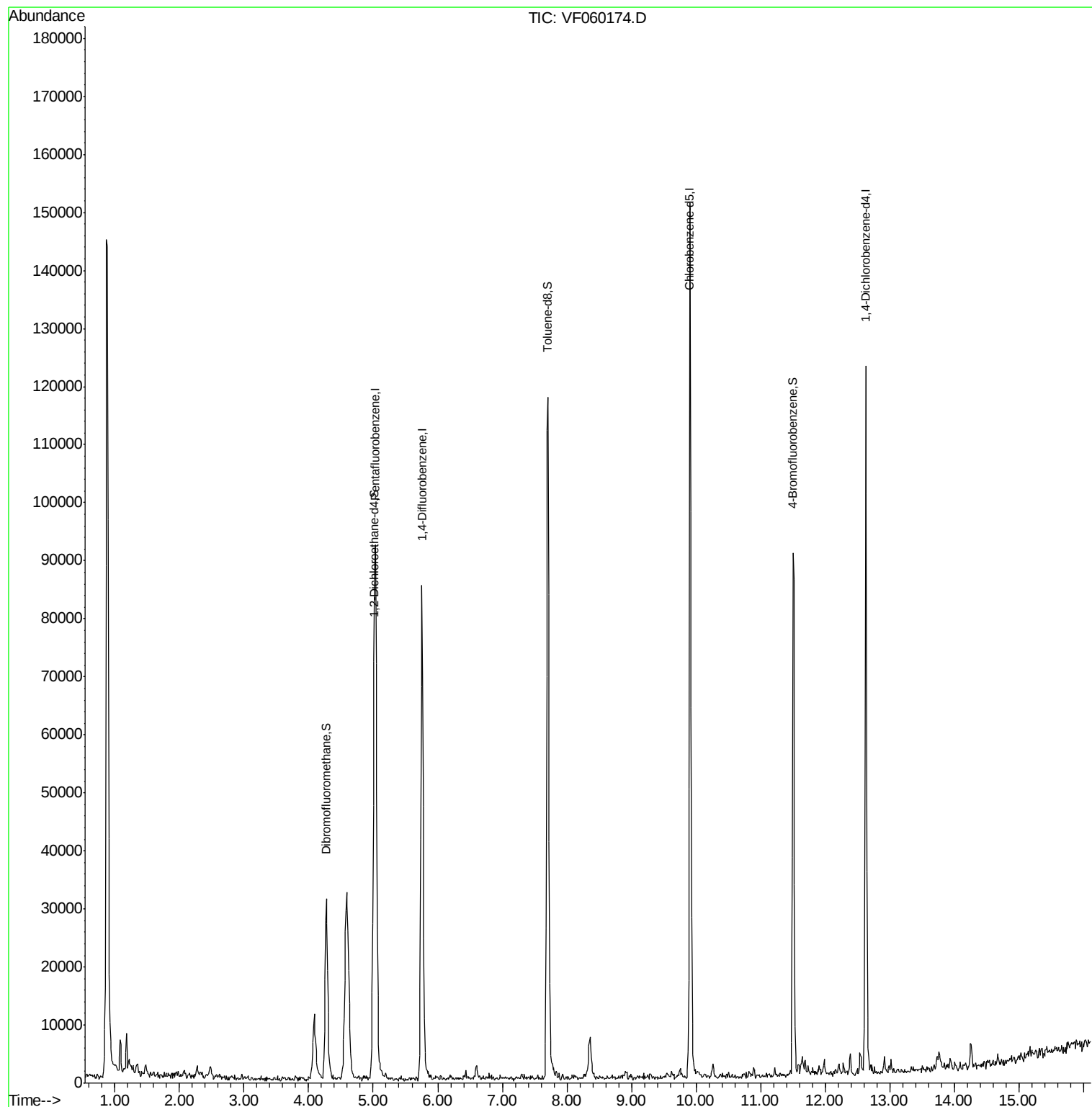
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

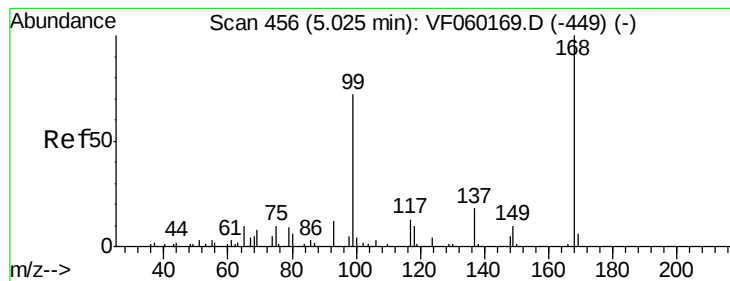
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F082918S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 29 03:22:03 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF060174.D

Acq: 29 Aug 2018 4:38

Instrument :

MSVOA\_F

ClientSampleId :

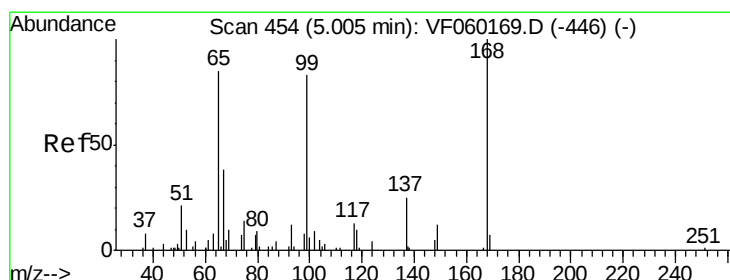
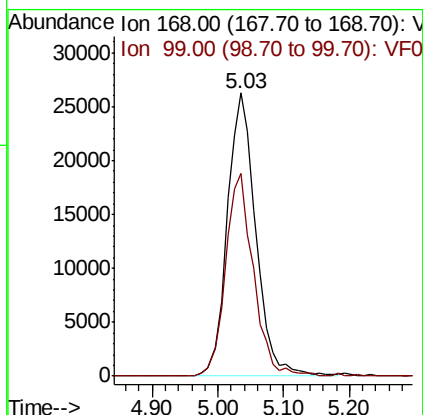
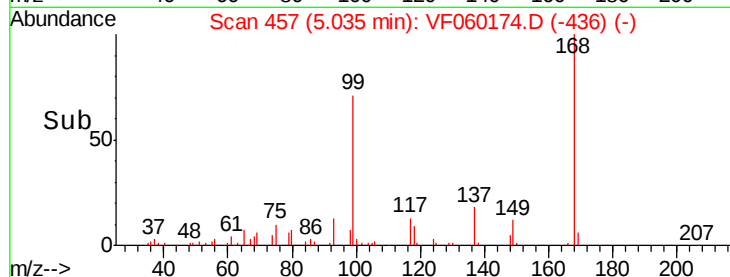
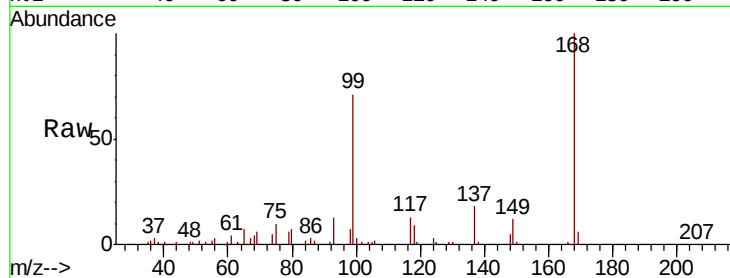
VF0829SBL01

Tot Ion:168 Resp: 79650

Ion Ratio Lower Upper

168 100

99 71.5 57.9 86.9



#33

1,2-Dichloroethane-d4

Concen: 45.42 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF060174.D

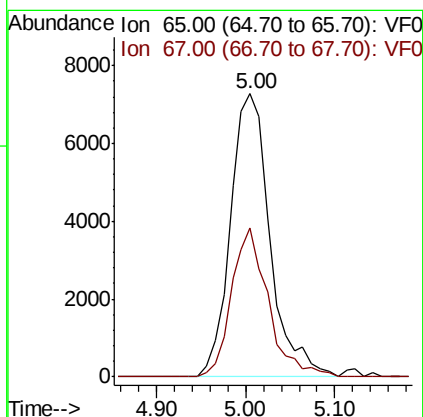
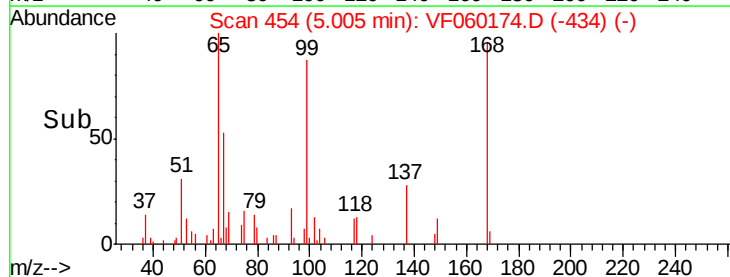
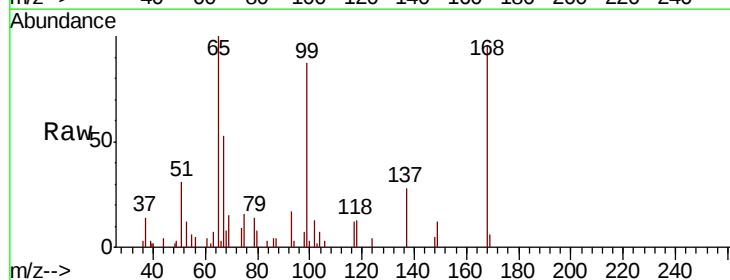
Acq: 29 Aug 2018 4:38

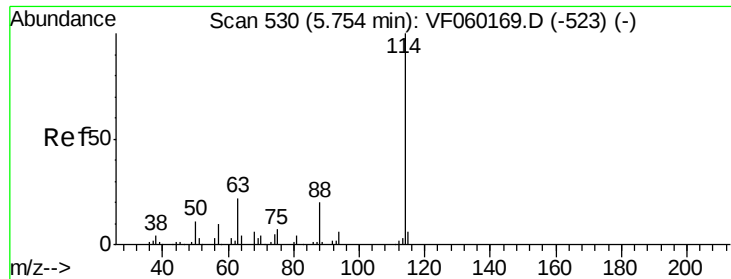
Tgt Ion: 65 Resp: 22595

Ion Ratio Lower Upper

65 100

67 52.7 0.0 92.6

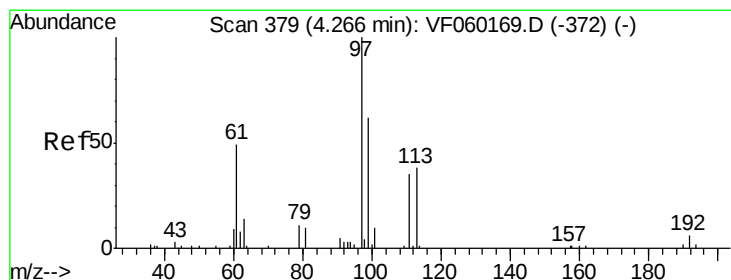
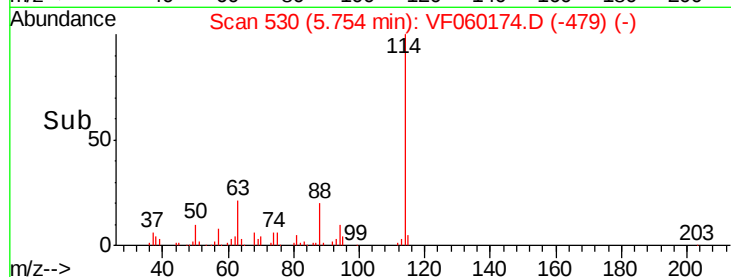
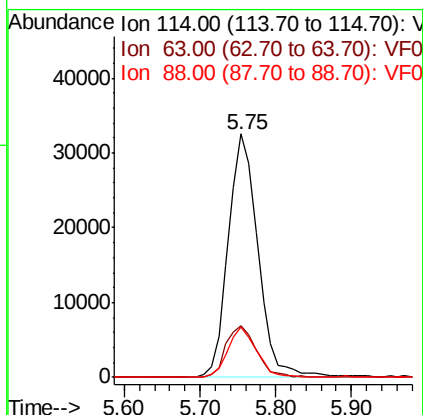
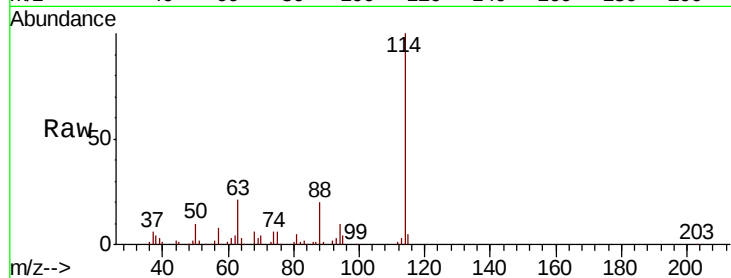




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.75 min Scan# 530  
 Delta R.T. -0.00 min  
 Lab File: VF060174.D  
 Acq: 29 Aug 2018 4:38

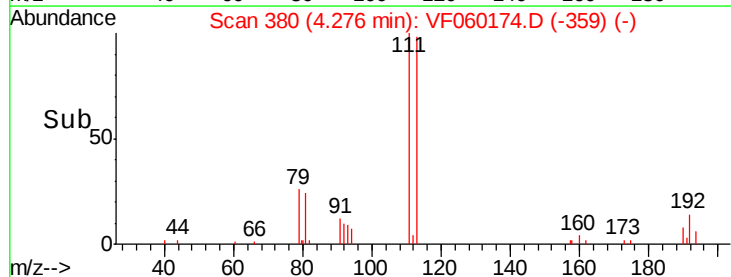
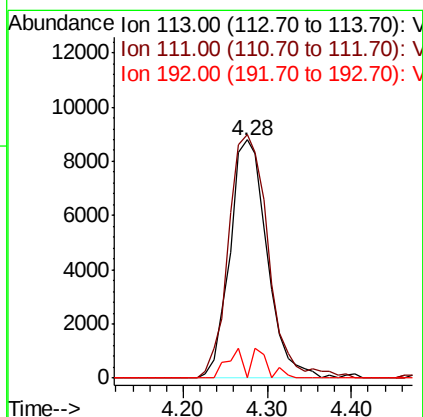
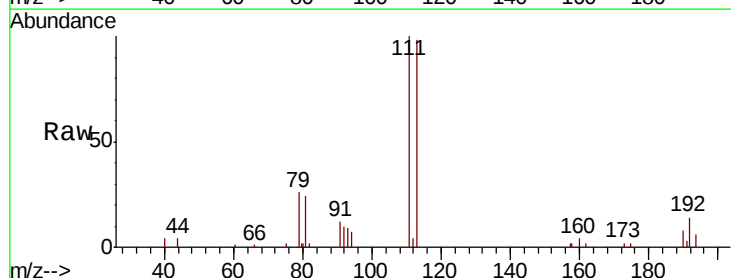
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0829SBL01

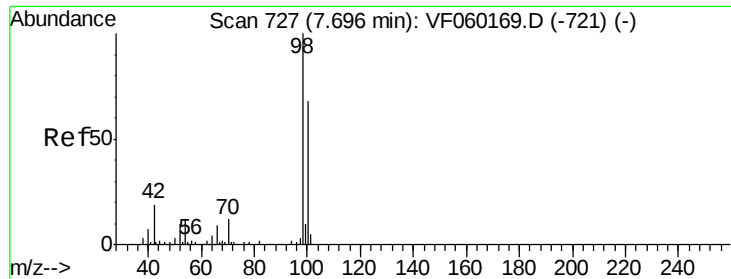
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.4  | 0.0   | 45.8  |
| 88      | 20.5  | 0.0   | 40.2  |



#35  
 Dibromofluoromethane  
 Concen: 47.59 ug/l  
 RT: 4.28 min Scan# 380  
 Delta R.T. 0.01 min  
 Lab File: VF060174.D  
 Acq: 29 Aug 2018 4:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 106.4 | 75.5  | 113.3 |
| 192     | 0.0   | 12.5  | 18.7# |

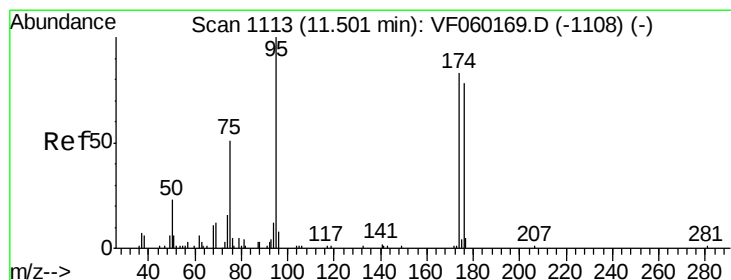
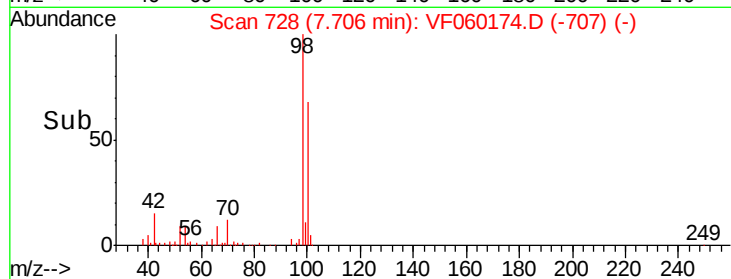
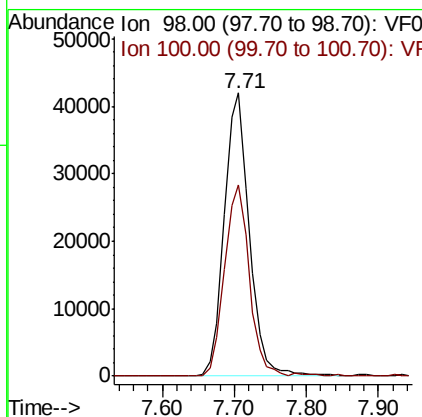
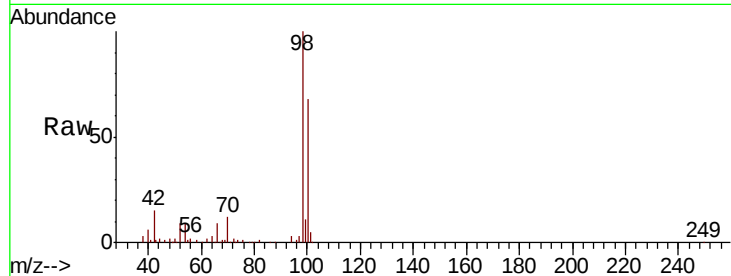




#50  
Toluene-d8  
Concen: 52.01 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. 0.01 min  
Lab File: VF060174.D  
Acq: 29 Aug 2018 4:38

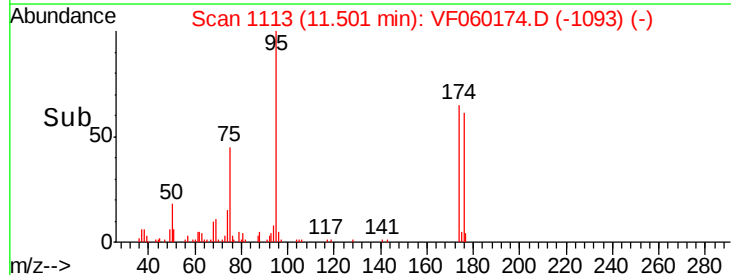
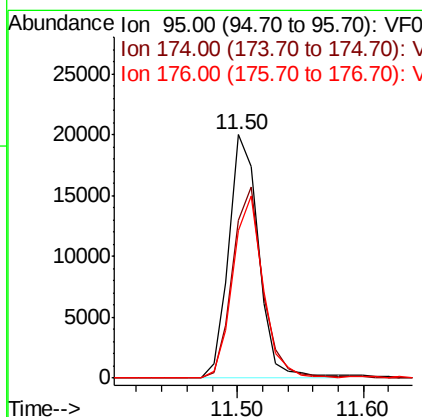
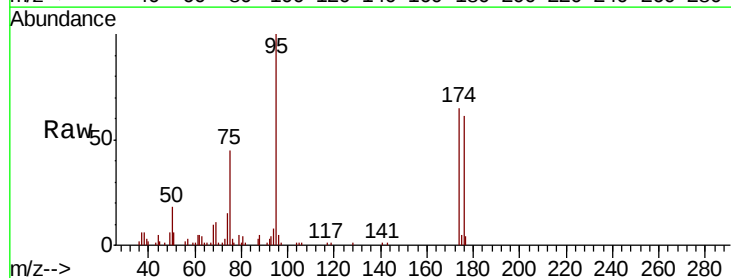
Instrument :  
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ClientSampleId :  
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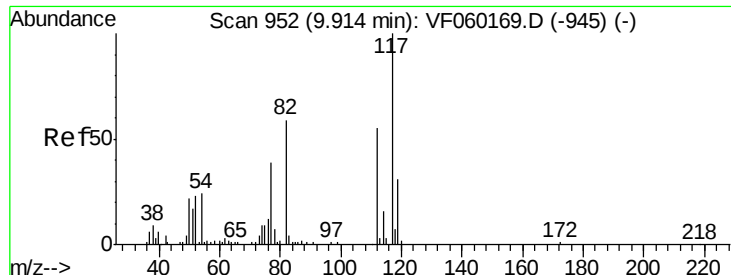
Tot Ion: 98 Resp: 101141  
Ion Ratio Lower Upper  
98 100  
100 67.6 54.5 81.7



#62  
4-Bromofluorobenzene  
Concen: 45.64 ug/l  
RT: 11.50 min Scan# 1113  
Delta R.T. -0.00 min  
Lab File: VF060174.D  
Acq: 29 Aug 2018 4:38

Tgt Ion: 95 Resp: 32728  
Ion Ratio Lower Upper  
95 100  
174 64.8 0.0 165.2  
176 60.7 0.0 156.6

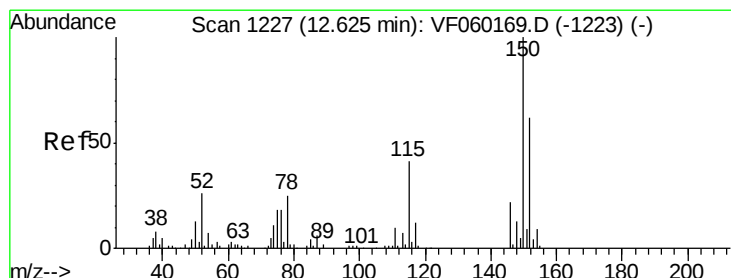
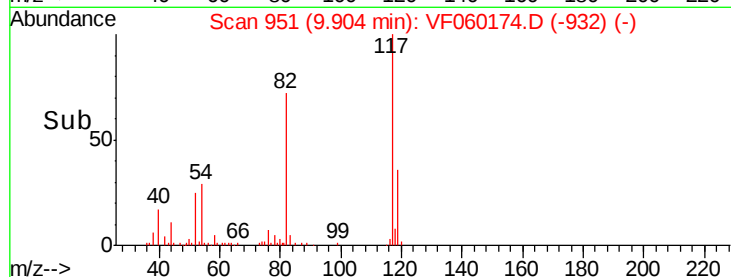
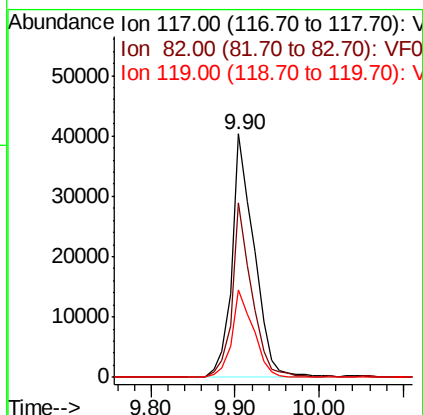
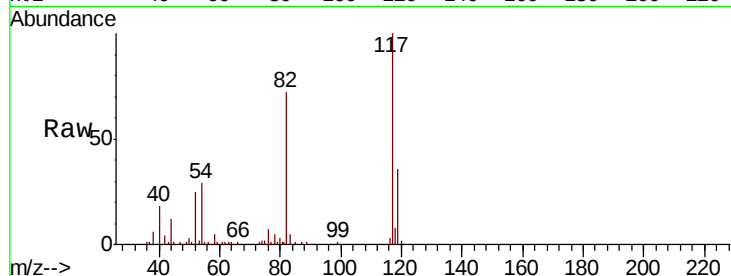




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.90 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: VF060174.D  
Acq: 29 Aug 2018 4:38

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0829SBL01

Tot Ion:117 Resp: 74495  
Ion Ratio Lower Upper  
117 100  
82 71.8 47.2 70.8#  
119 35.7 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.62 min Scan# 1227  
Delta R.T. -0.00 min  
Lab File: VF060174.D  
Acq: 29 Aug 2018 4:38

Tgt Ion:152 Resp: 31435  
Ion Ratio Lower Upper  
152 100  
115 64.4 33.2 99.6  
150 158.3 0.0 325.6

