

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF090718\  
 Data File : VF060213.D  
 Acq On : 7 Sep 2018 16:31  
 Operator : VA/AP  
 Sample : J4693-19  
 Misc : 5.83g/5mL/MSVOA F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-MW-G(15-20)

Quant Time: Sep 10 13:05:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 07 10:44:05 2018  
 Response via : Initial Calibration

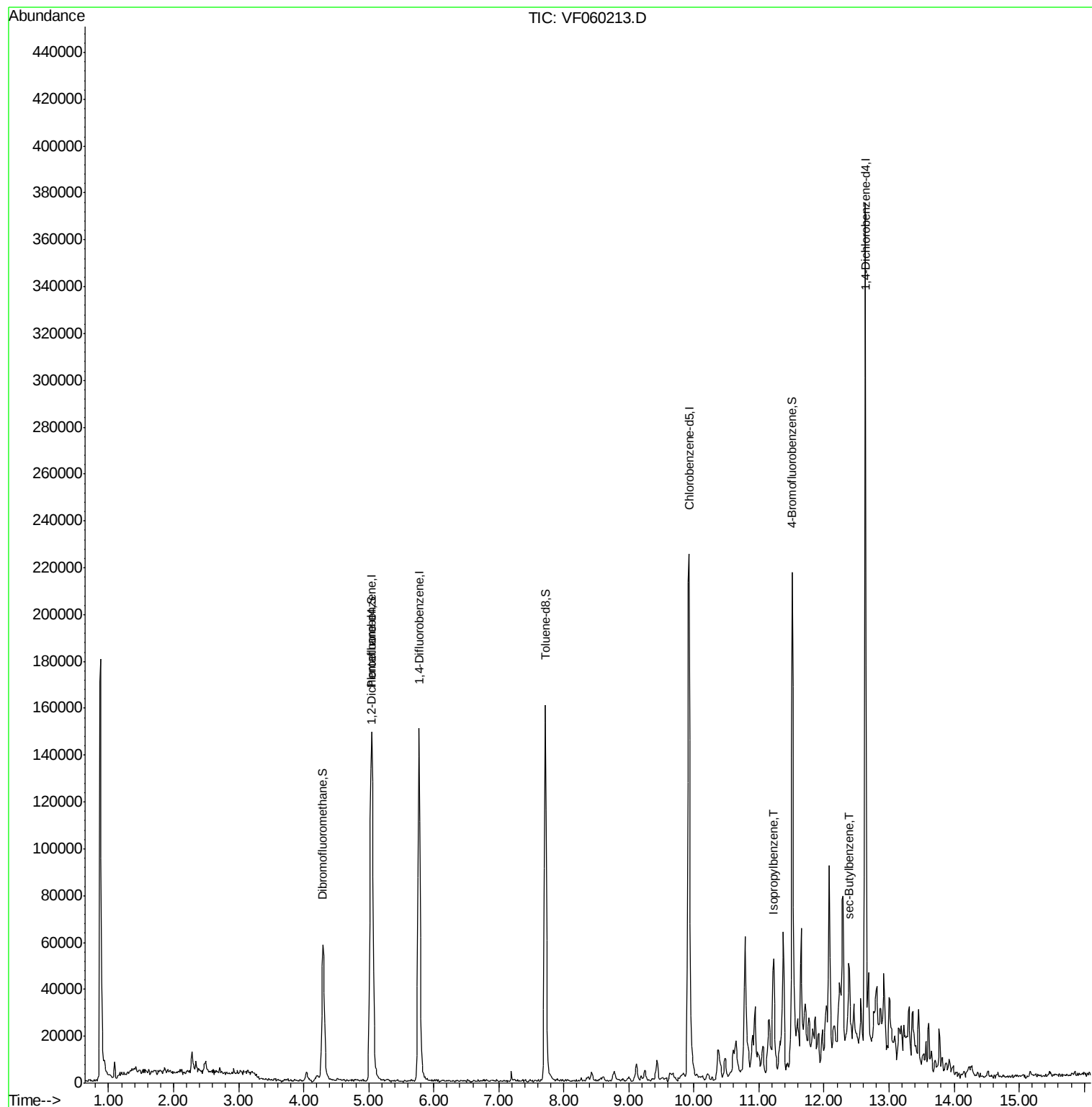
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 5.06  | 168  | 100702   | 50.00 | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene     | 5.77  | 114  | 143001   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.92  | 117  | 146009   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.64 | 152  | 90479    | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 64606    | 36.72 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 73.44% |          |
| 35) Dibromofluoromethane    | 4.30  | 113  | 51377    | 36.67 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 73.34% |          |
| 50) Toluene-d8              | 7.72  | 98   | 130762   | 37.40 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 74.80% |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 71793    | 36.40 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 72.80% |          |
| Target Compounds            |       |      |          |       |        |          |
| 73) Isopropylbenzene        | 11.23 | 105  | 10542    | 1.69  | ug/l   | 99       |
| 85) sec-Butylbenzene        | 12.39 | 105  | 15708    | 2.27  | ug/l   | 92       |

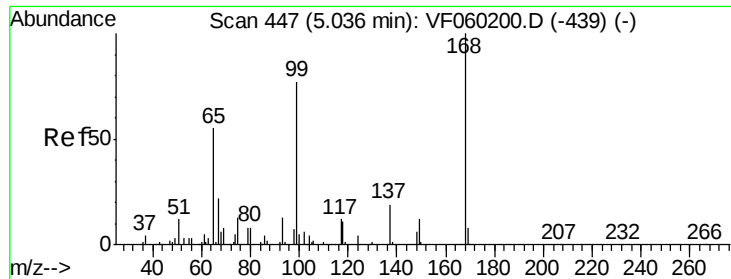
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF090718\  
Data File : VF060213.D  
Acq On : 7 Sep 2018 16:31  
Operator : VA/AP  
Sample : J4693-19  
Misc : 5.83g/5mL/MSVOA F/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-MW-G(15-20)

Quant Time: Sep 10 13:05:36 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 07 10:44:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.06 min Scan# 449

Delta R.T. 0.02 min

Lab File: VF060213.D

Acq: 7 Sep 2018 16:31

Instrument :

MSVOA\_F

ClientSampleId :

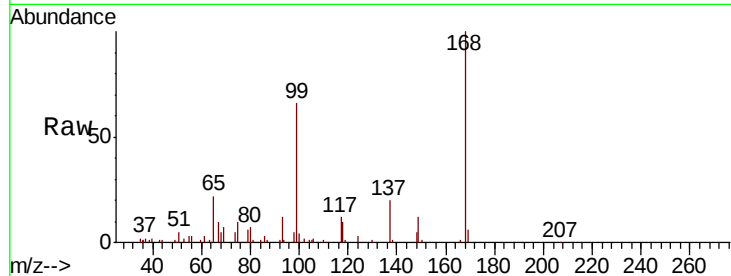
EP1-MW-G(15-20)

Tot Ion:168 Resp: 100702

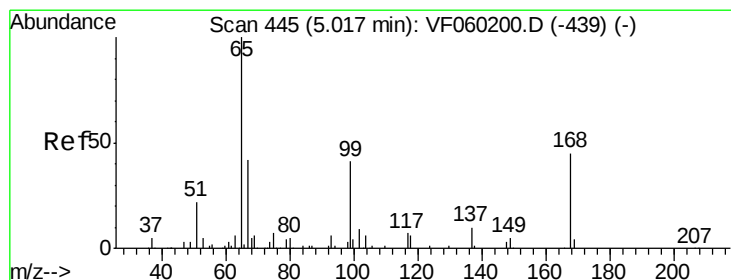
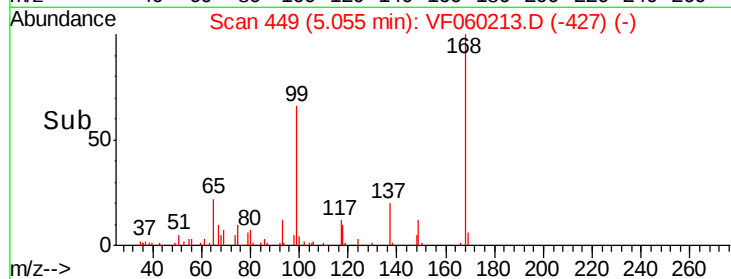
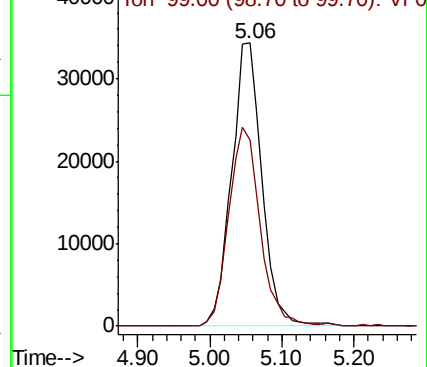
Ion Ratio Lower Upper

168 100

99 65.9 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 36.72 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.01 min

Lab File: VF060213.D

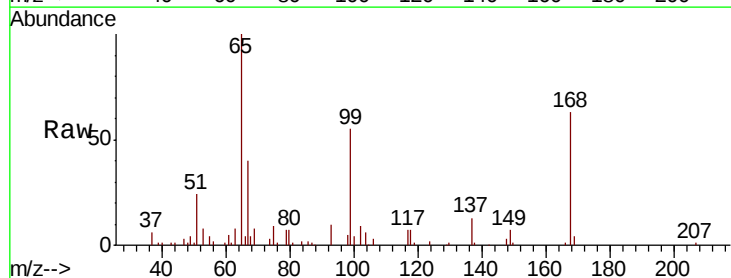
Acq: 7 Sep 2018 16:31

Tgt Ion: 65 Resp: 64606

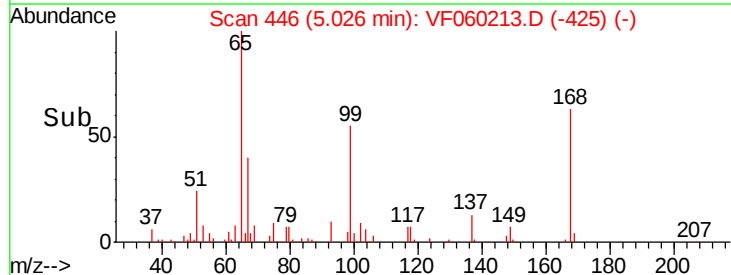
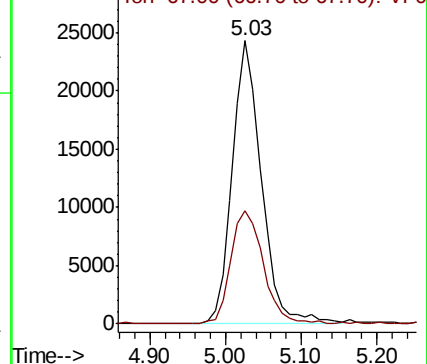
Ion Ratio Lower Upper

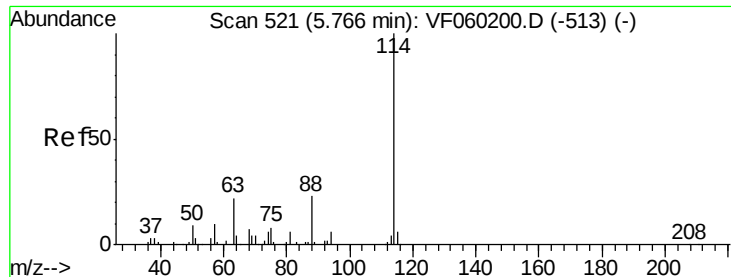
65 100

67 40.1 0.0 87.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

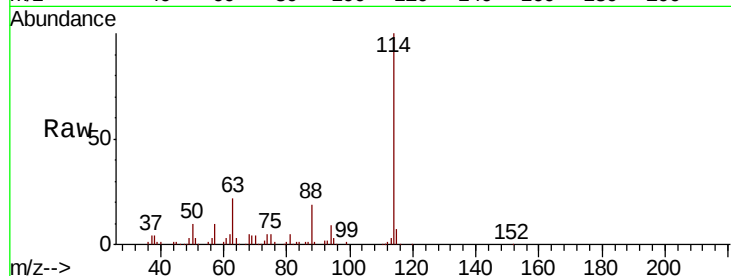




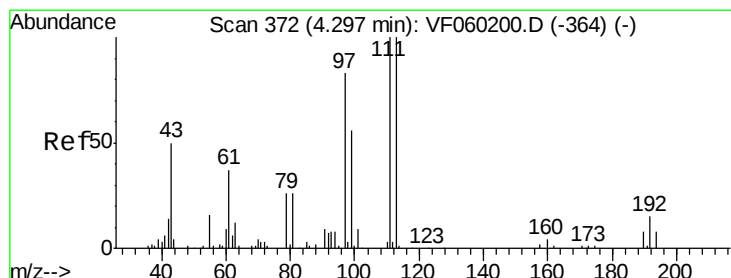
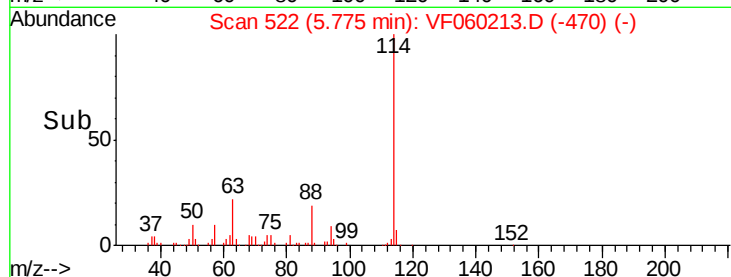
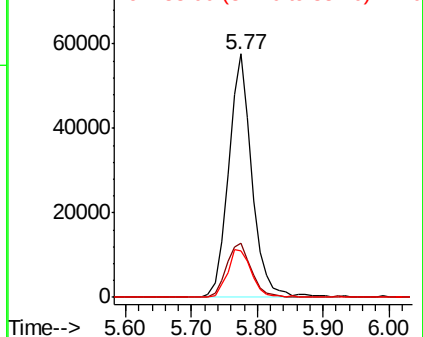
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.77 min Scan# 522  
 Delta R.T. 0.01 min  
 Lab File: VF060213.D  
 Acq: 7 Sep 2018 16:31

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-MW-G(15-20)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.3  | 0.0   | 45.6  |
| 88      | 19.0  | 0.0   | 46.4  |

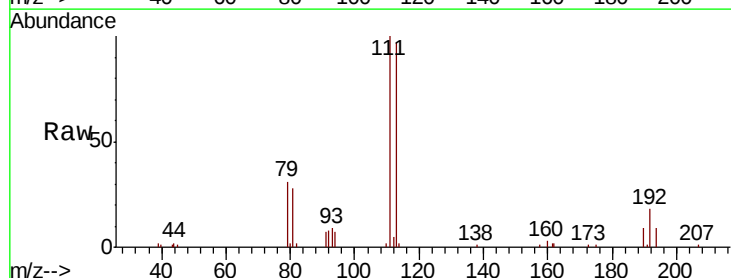


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VF0  
 Ion 88.00 (87.70 to 88.70): VF0

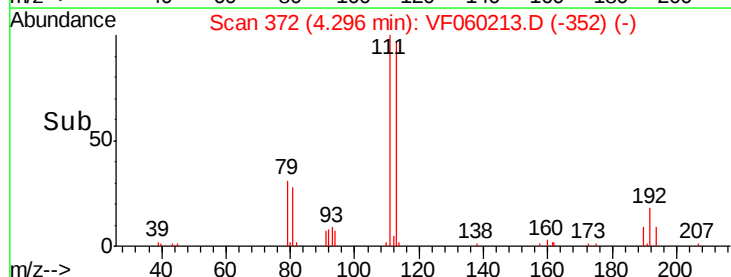
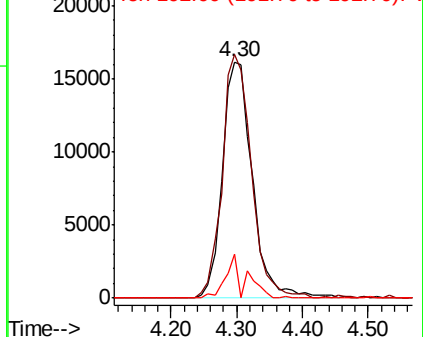


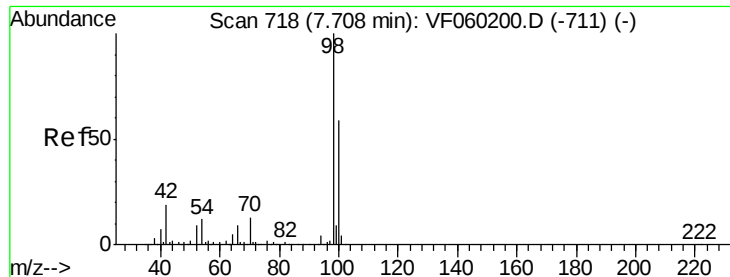
#35  
 Dibromofluoromethane  
 Concen: 36.67 ug/l  
 RT: 4.30 min Scan# 372  
 Delta R.T. -0.00 min  
 Lab File: VF060213.D  
 Acq: 7 Sep 2018 16:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 80.2  | 120.2 |
| 192     | 18.5  | 11.8  | 17.8# |



Abundance Ion 113.00 (112.70 to 113.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 192.00 (191.70 to 192.70): V

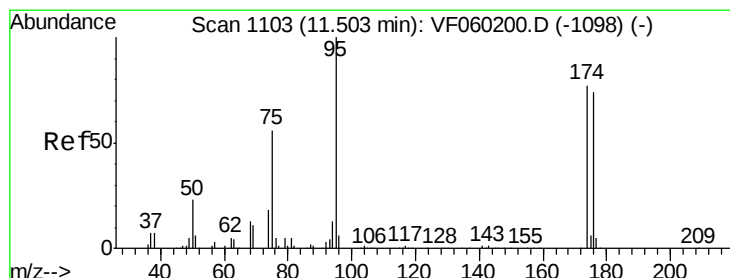
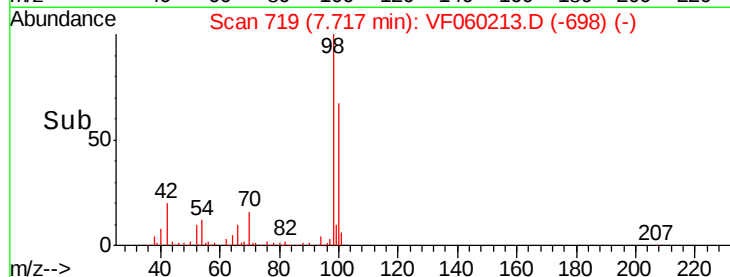
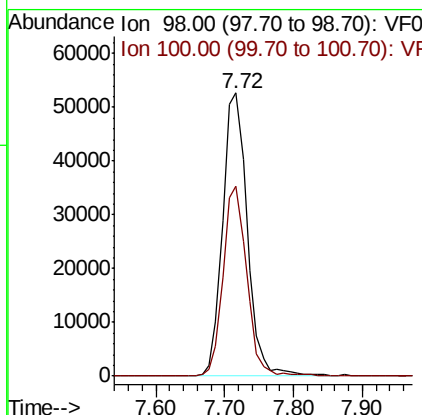
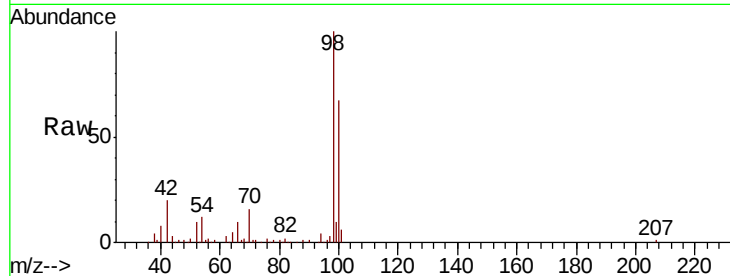




#50  
Toluene-d8  
Concen: 37.40 ug/l  
RT: 7.72 min Scan# 719  
Delta R.T. 0.01 min  
Lab File: VF060213.D  
Acq: 7 Sep 2018 16:31

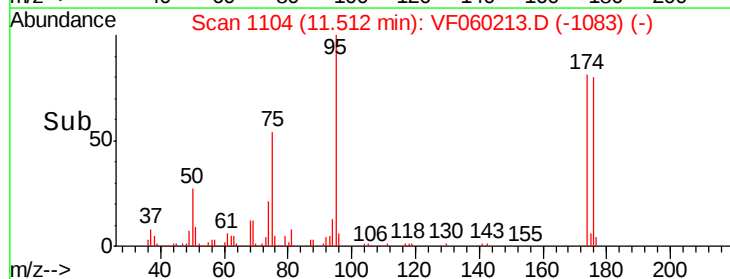
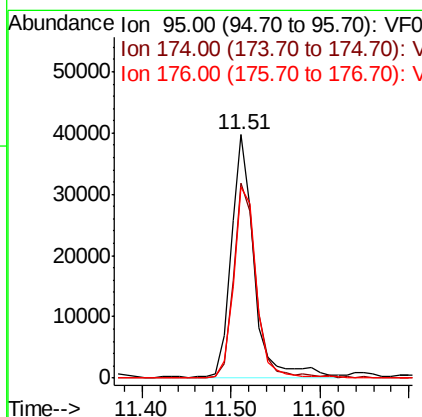
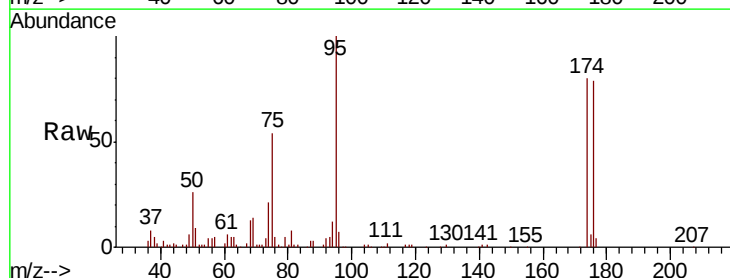
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-MW-G(15-20)

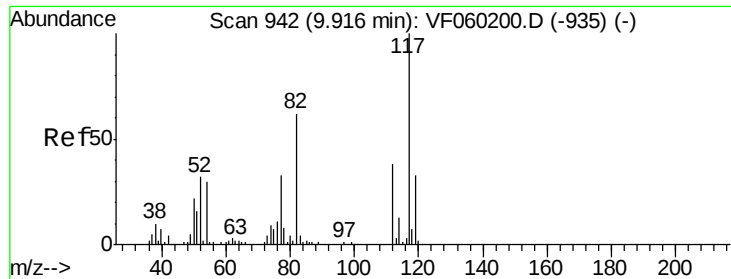
Tot Ion: 98 Resp: 130762  
Ion Ratio Lower Upper  
98 100  
100 67.2 47.4 71.0



#62  
4-Bromofluorobenzene  
Concen: 36.40 ug/l  
RT: 11.51 min Scan# 1104  
Delta R.T. 0.01 min  
Lab File: VF060213.D  
Acq: 7 Sep 2018 16:31

Tgt Ion: 95 Resp: 71793  
Ion Ratio Lower Upper  
95 100  
174 79.8 0.0 153.2  
176 78.5 0.0 147.2

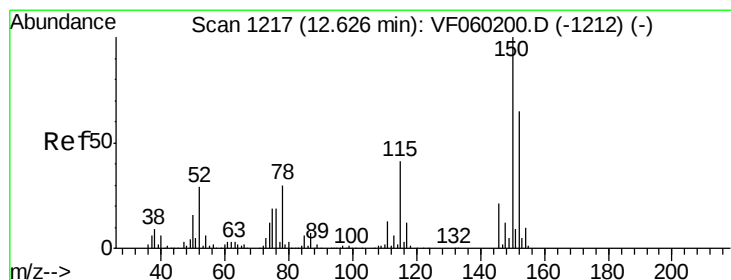
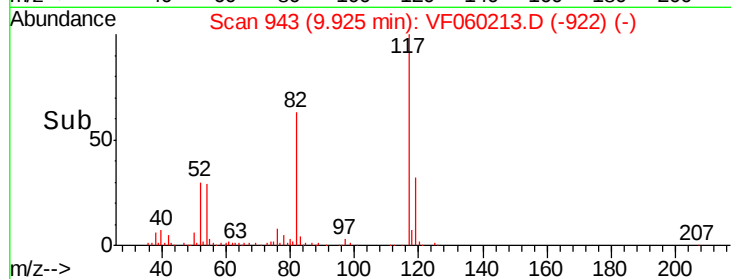
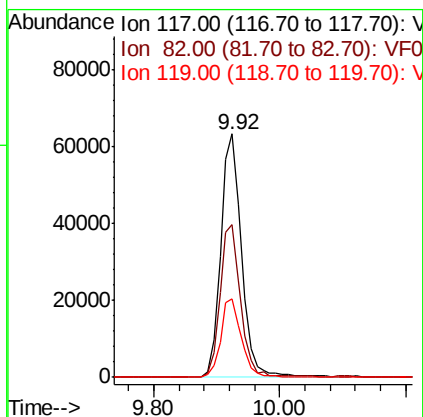
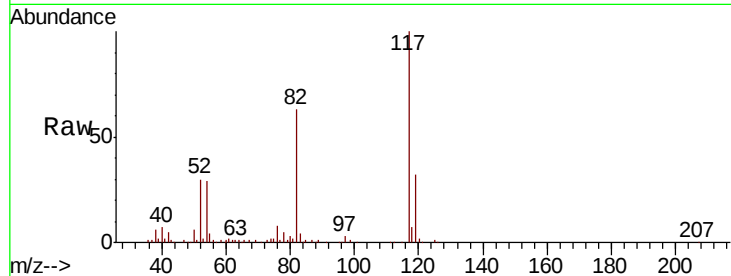




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.92 min Scan# 943  
Delta R.T. 0.01 min  
Lab File: VF060213.D  
Acq: 7 Sep 2018 16:31

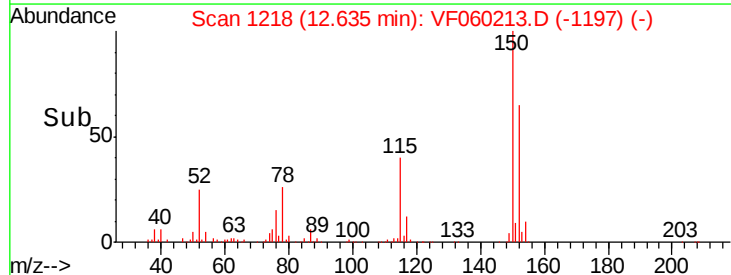
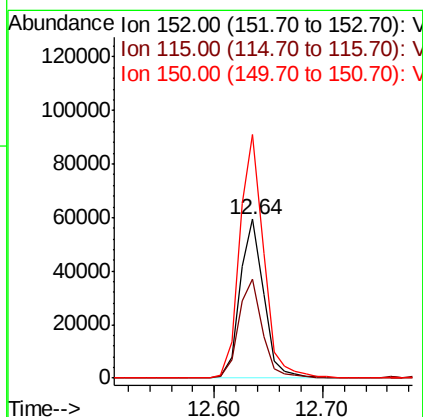
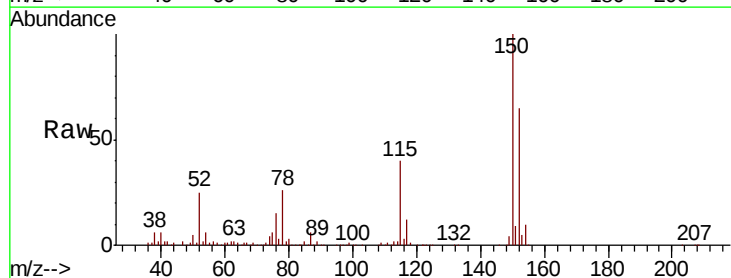
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-MW-G(15-20)

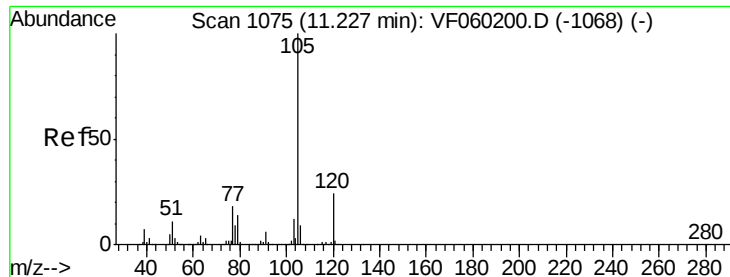
Tot Ion:117 Resp: 146009  
Ion Ratio Lower Upper  
117 100  
82 62.9 49.3 73.9  
119 32.4 26.5 39.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.64 min Scan# 1218  
Delta R.T. 0.01 min  
Lab File: VF060213.D  
Acq: 7 Sep 2018 16:31

Tgt Ion:152 Resp: 90479  
Ion Ratio Lower Upper  
152 100  
115 62.0 31.5 94.5  
150 153.2 0.0 310.4





#73

Isopropylbenzene

Concen: 1.69 ug/l

RT: 11.23 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VF060213.D

Acq: 7 Sep 2018 16:31

Instrument :

MSVOA\_F

ClientSampleId :

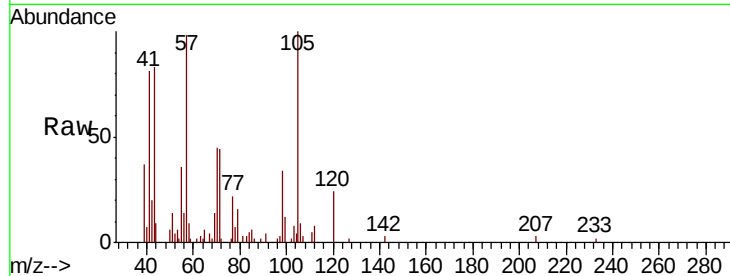
EP1-MW-G(15-20)

Tot Ion:105 Resp: 10542

Ion Ratio Lower Upper

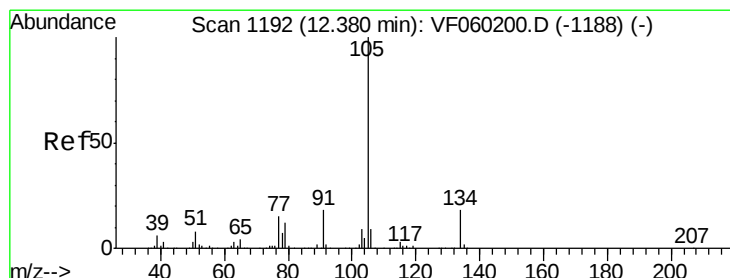
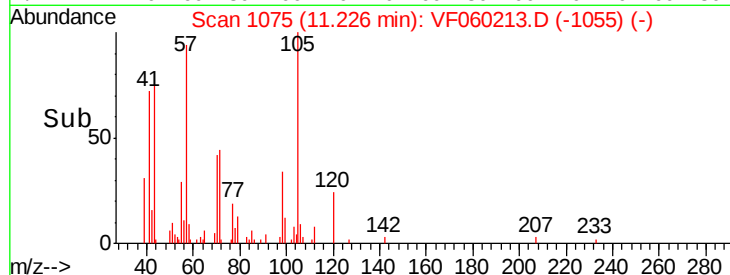
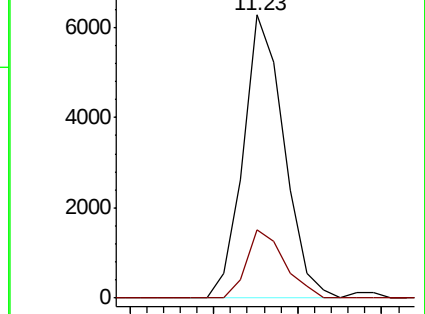
105 100

120 24.1 11.8 35.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 2.27 ug/l

RT: 12.39 min Scan# 1193

Delta R.T. 0.01 min

Lab File: VF060213.D

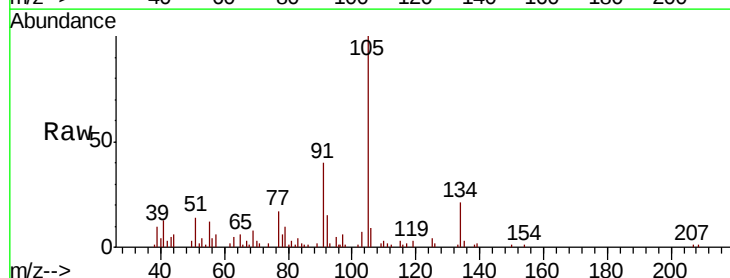
Acq: 7 Sep 2018 16:31

Tgt Ion:105 Resp: 15708

Ion Ratio Lower Upper

105 100

134 21.3 8.8 26.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

