

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF090718\  
 Data File : VF060224.D  
 Acq On : 7 Sep 2018 21:37  
 Operator : VA/AP  
 Sample : J4803-07  
 Misc : 5.54g/5mL/MSVOA F/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-G5

Quant Time: Sep 11 15:15:56 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

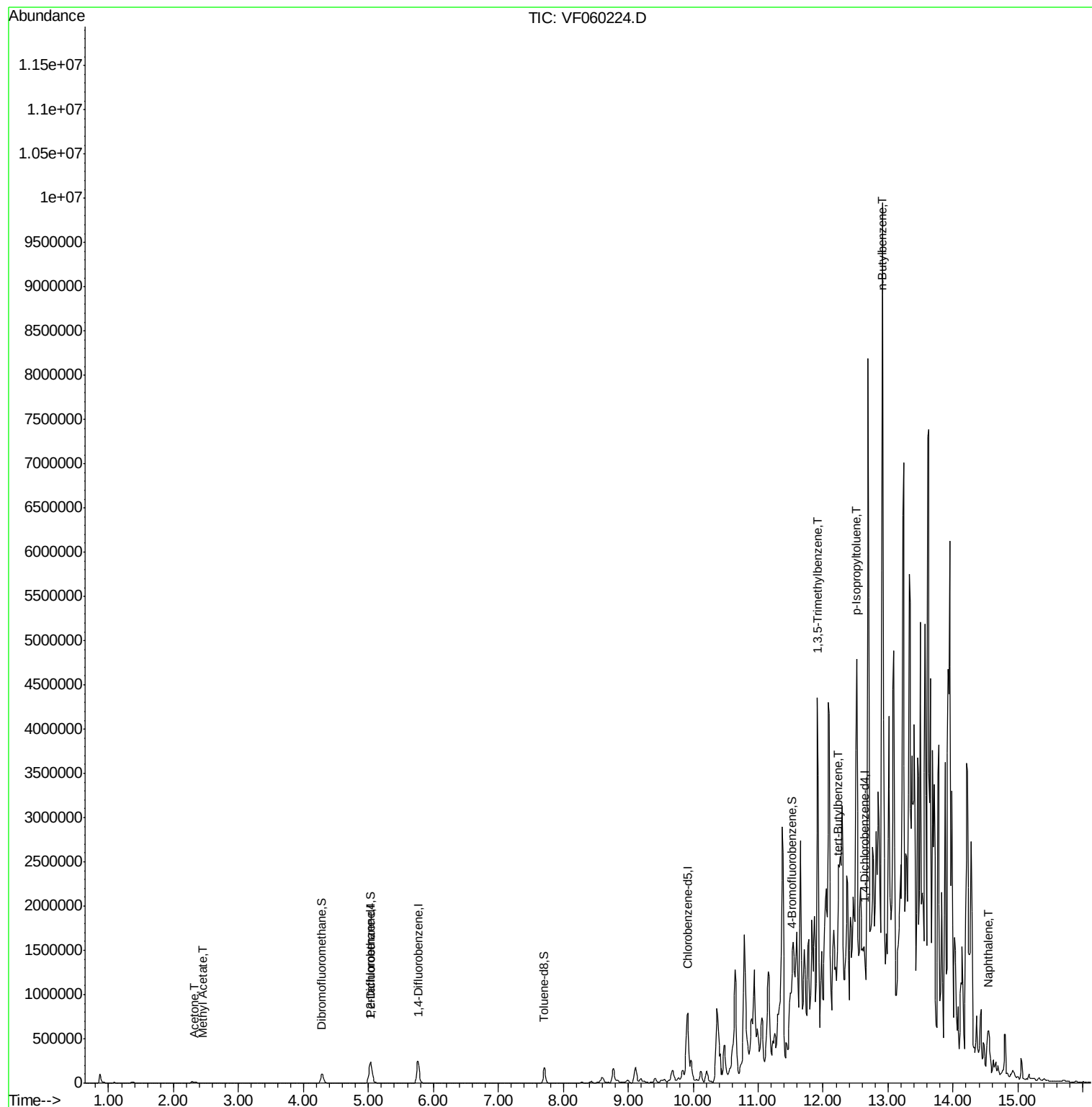
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 5.05  | 168  | 157086   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.76  | 114  | 239469   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.91  | 117  | 149810   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.64 | 152  | 156772   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.02  | 65   | 111171   | 40.51  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 81.02%  |          |
| 35) Dibromofluoromethane    | 4.29  | 113  | 92629    | 39.48  | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 78.96%  |          |
| 50) Toluene-d8              | 7.71  | 98   | 133402   | 22.79  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 45.58%  |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 192986   | 58.42  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 116.84% |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 2.33  | 43   | 9426     | 23.54  | ug/l #  | 92       |
| 18) Methyl Acetate          | 2.44  | 43   | 2595     | 2.80   | ug/l    | 96       |
| 80) 1,3,5-Trimethylbenzene  | 11.92 | 105  | 1719906  | 180.17 | ug/l    | 97       |
| 83) tert-Butylbenzene       | 12.22 | 119  | 147785   | 16.99  | ug/l    | 90       |
| 86) p-Isopropyltoluene      | 12.52 | 119  | 1825323  | 171.30 | ug/l    | 92       |
| 89) n-Butylbenzene          | 12.91 | 91   | 1018369  | 98.81  | ug/l #  | 1        |
| 95) Naphthalene             | 14.53 | 128  | 15500    | 5.09   | ug/l #  | 1        |

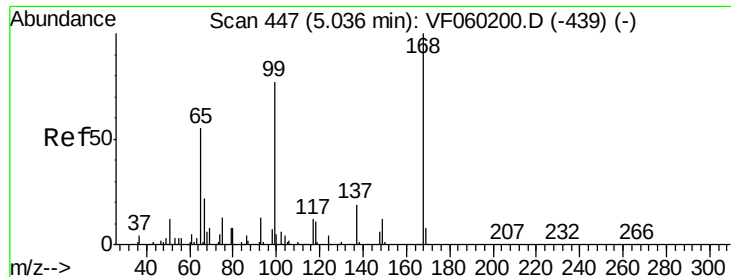
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EP1-Q2-G5

Quant Time: Sep 11 15:15:56 2018  
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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: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060224.D

Acq: 7 Sep 2018 21:37

Instrument :

MSVOA\_F

ClientSampleId :

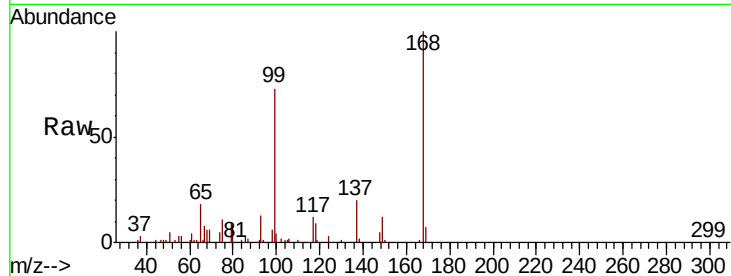
EP1-Q2-G5

Tot Ion:168 Resp: 157086

Ion Ratio Lower Upper

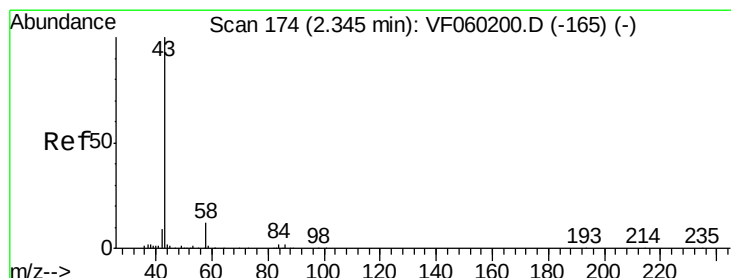
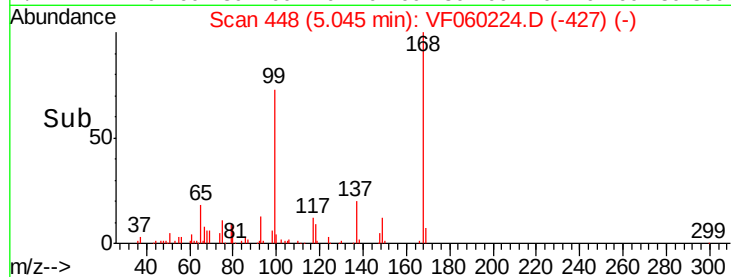
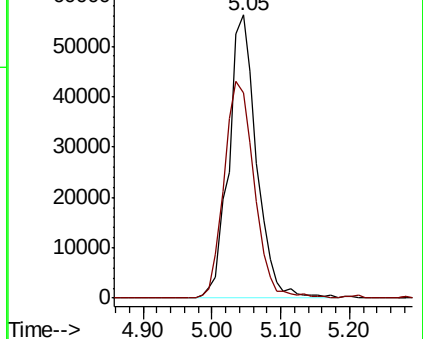
168 100

99 72.6 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#16

Acetone

Concen: 23.54 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060224.D

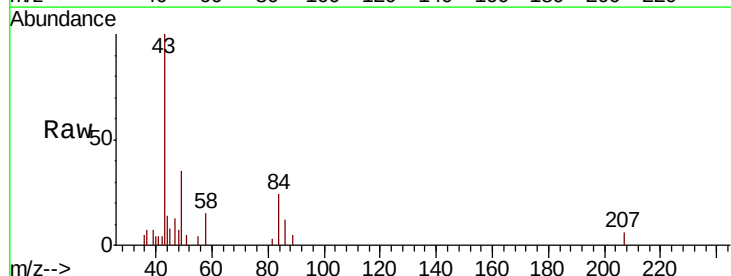
Acq: 7 Sep 2018 21:37

Tgt Ion: 43 Resp: 9426

Ion Ratio Lower Upper

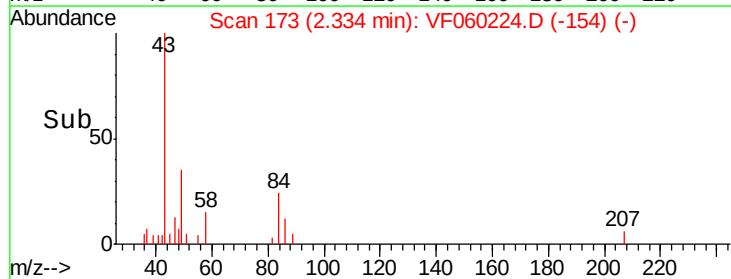
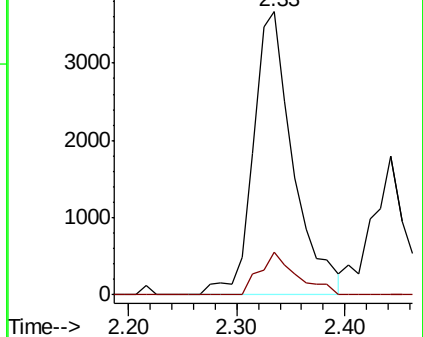
43 100

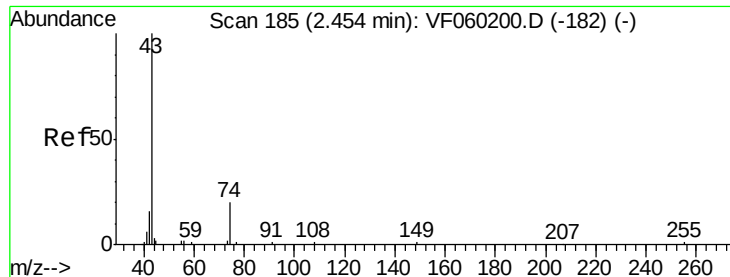
58 15.1 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

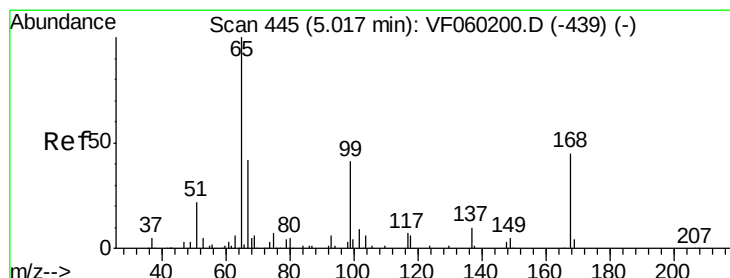
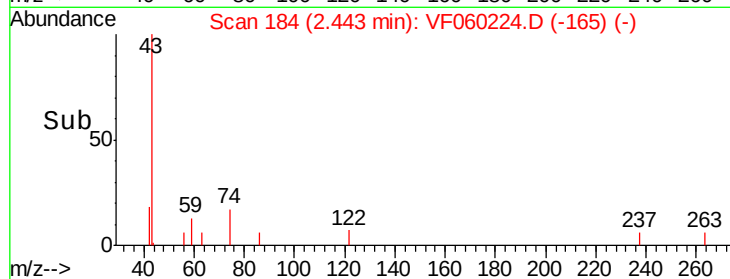
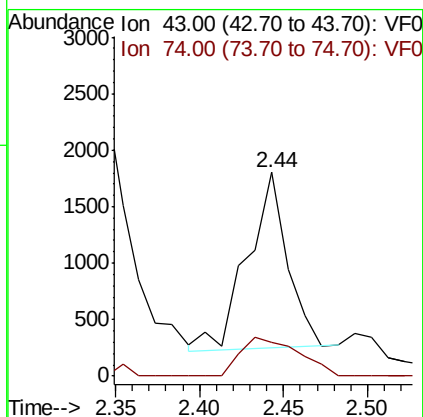
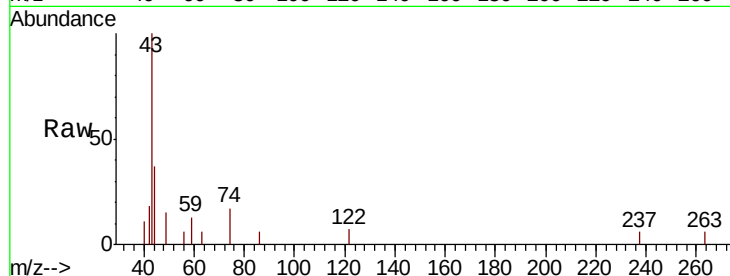




#18  
Methvl Acetate  
Concen: 2.80 ug/l  
RT: 2.44 min Scan# 184  
Delta R.T. -0.01 min  
Lab File: VF060224.D  
Acq: 7 Sep 2018 21:37

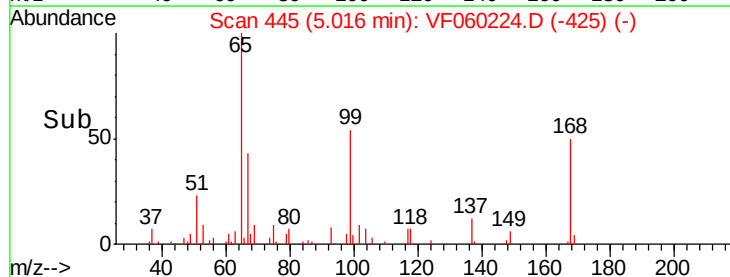
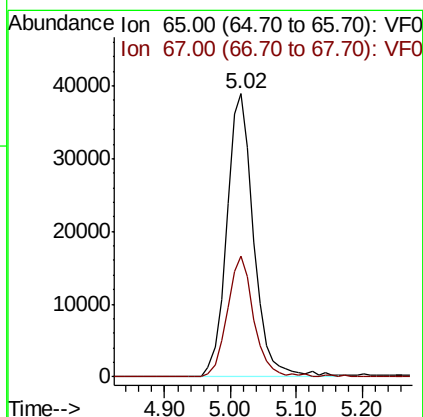
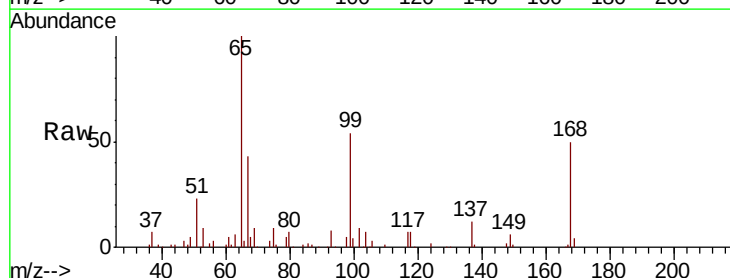
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G5

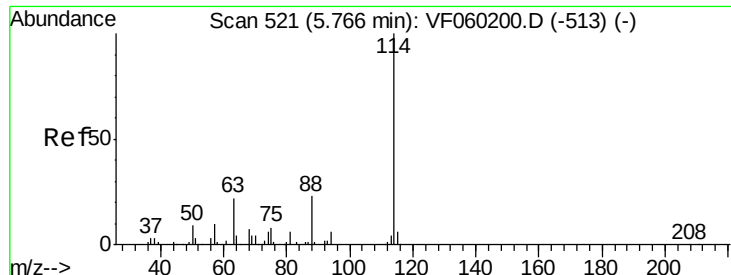
Tot Ion: 43 Resp: 2595  
Ion Ratio Lower Upper  
43 100  
74 16.5 11.9 17.9



#33  
1,2-Dichloroethane-d4  
Concen: 40.51 ug/l  
RT: 5.02 min Scan# 445  
Delta R.T. -0.00 min  
Lab File: VF060224.D  
Acq: 7 Sep 2018 21:37

Tgt Ion: 65 Resp: 111171  
Ion Ratio Lower Upper  
65 100  
67 42.6 0.0 87.2

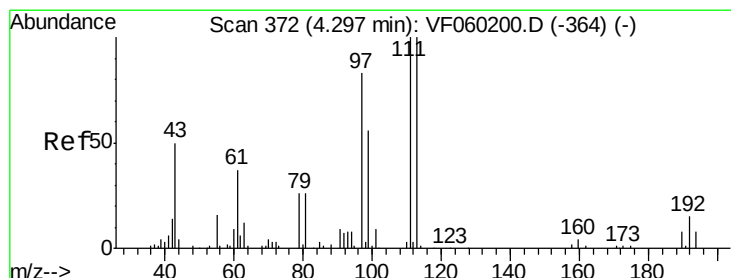
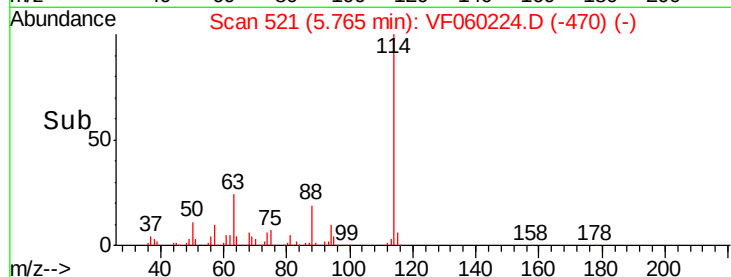
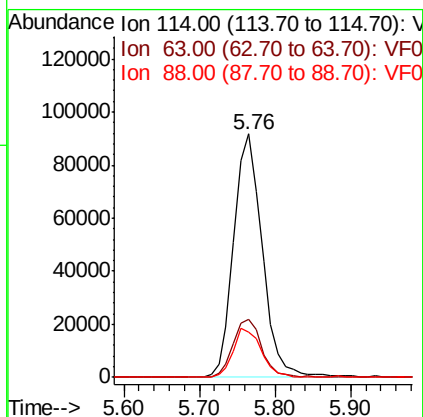
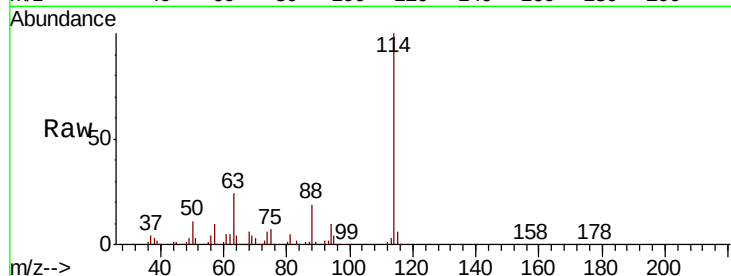




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.76 min Scan# 521  
 Delta R.T. -0.00 min  
 Lab File: VF060224.D  
 Acq: 7 Sep 2018 21:37

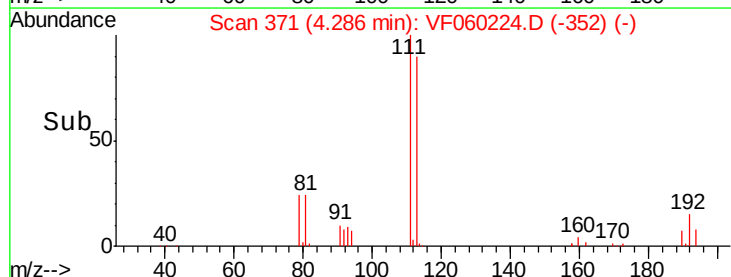
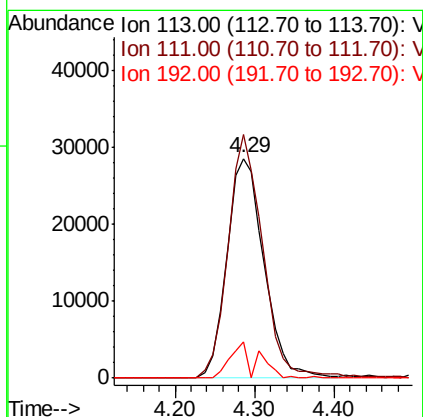
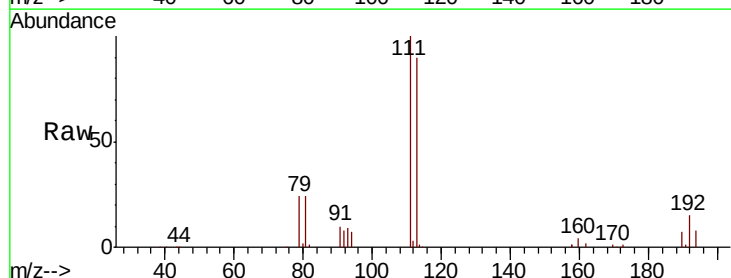
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-G5

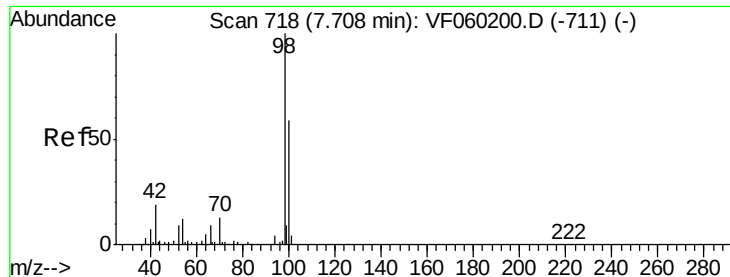
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.7  | 0.0   | 45.6  |
| 88      | 18.8  | 0.0   | 46.4  |



#35  
 Dibromofluoromethane  
 Concen: 39.48 ug/l  
 RT: 4.29 min Scan# 371  
 Delta R.T. -0.01 min  
 Lab File: VF060224.D  
 Acq: 7 Sep 2018 21:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 110.8 | 80.2  | 120.2 |
| 192     | 16.7  | 11.8  | 17.8  |

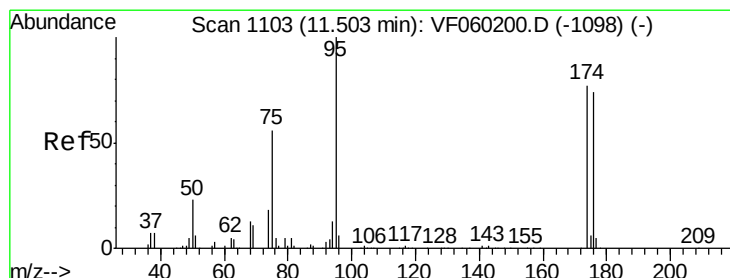
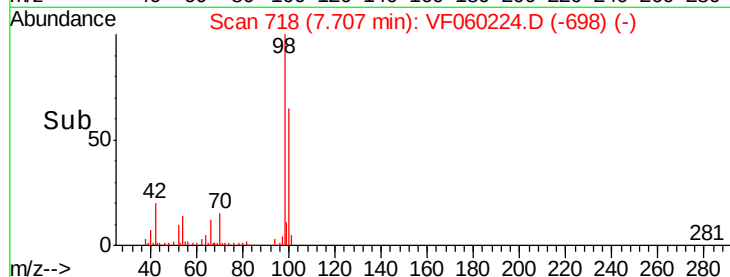
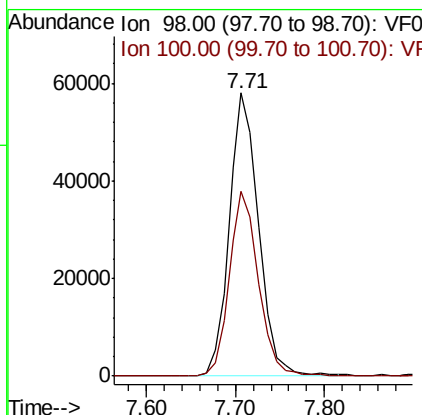
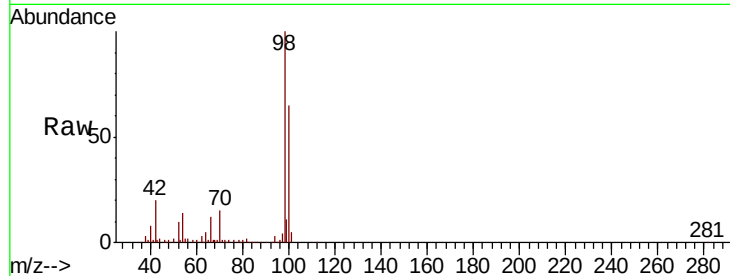




#50  
Toluene-d8  
Concen: 22.79 ug/l  
RT: 7.71 min Scan# 718  
Delta R.T. -0.00 min  
Lab File: VF060224.D  
Acq: 7 Sep 2018 21:37

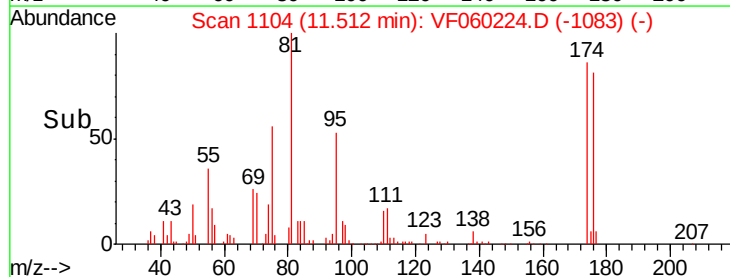
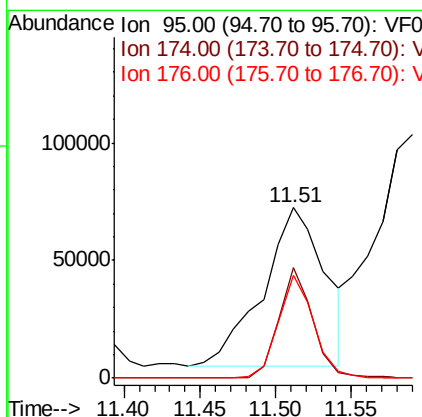
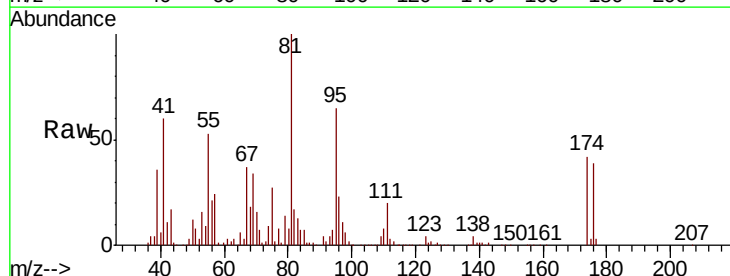
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G5

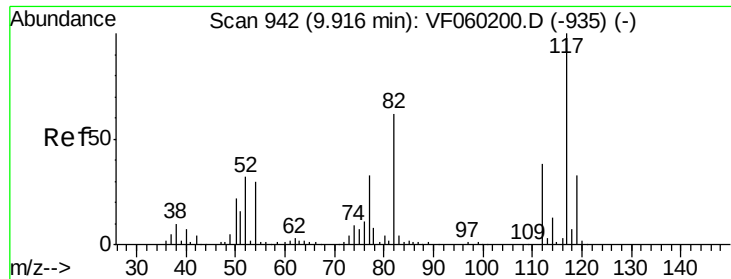
Tot Ion: 98 Resp: 133402  
Ion Ratio Lower Upper  
98 100  
100 65.1 47.4 71.0



#62  
4-Bromofluorobenzene  
Concen: 58.42 ug/l  
RT: 11.51 min Scan# 1104  
Delta R.T. 0.01 min  
Lab File: VF060224.D  
Acq: 7 Sep 2018 21:37

Tgt Ion: 95 Resp: 192986  
Ion Ratio Lower Upper  
95 100  
174 64.5 0.0 153.2  
176 60.7 0.0 147.2

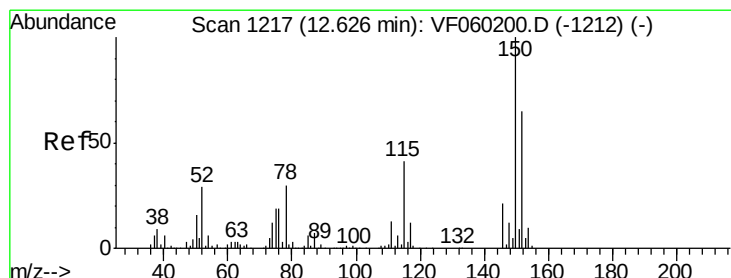
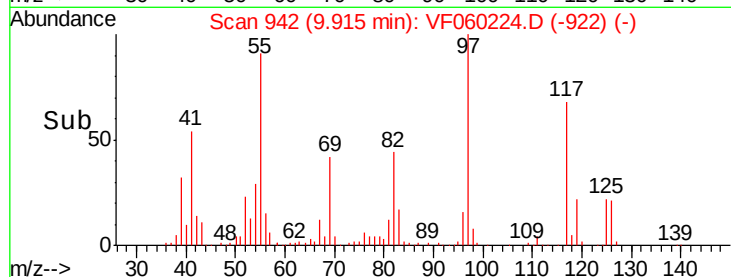
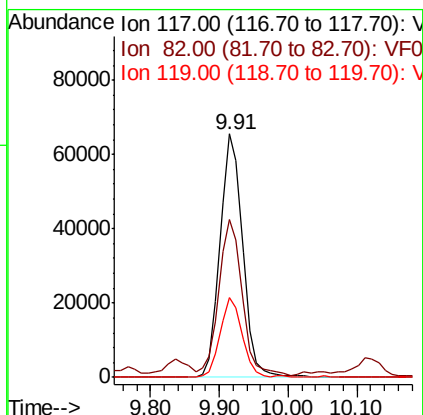
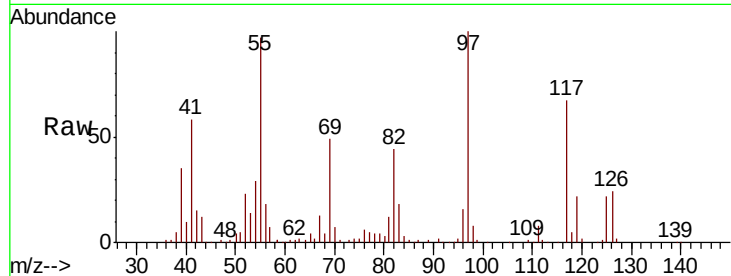




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.91 min Scan# 942  
Delta R.T. -0.00 min  
Lab File: VF060224.D  
Acq: 7 Sep 2018 21:37

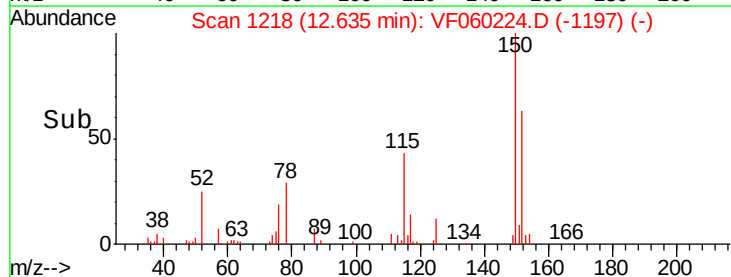
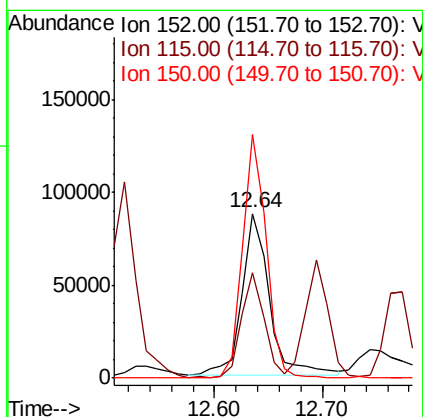
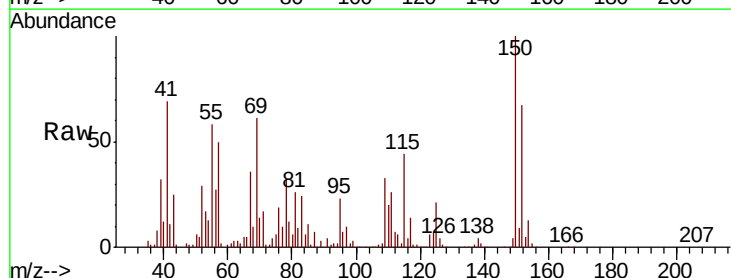
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G5

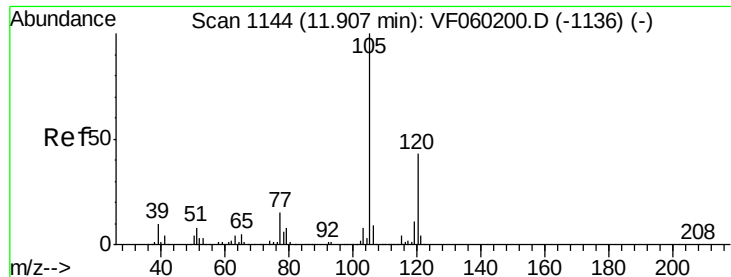
Tot Ion:117 Resp: 149810  
Ion Ratio Lower Upper  
117 100  
82 64.8 49.3 73.9  
119 33.0 26.5 39.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.64 min Scan# 1218  
Delta R.T. 0.01 min  
Lab File: VF060224.D  
Acq: 7 Sep 2018 21:37

Tgt Ion:152 Resp: 156772  
Ion Ratio Lower Upper  
152 100  
115 64.5 31.5 94.5  
150 148.3 0.0 310.4





#80

1,3,5-Trimethylbenzene

Concen: 180.17 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF060224.D

Acq: 7 Sep 2018 21:37

Instrument :

MSVOA\_F

ClientSampleId :

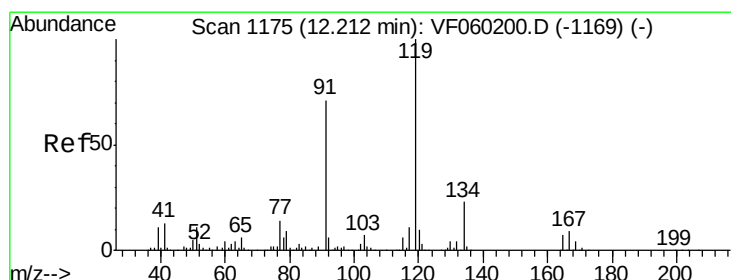
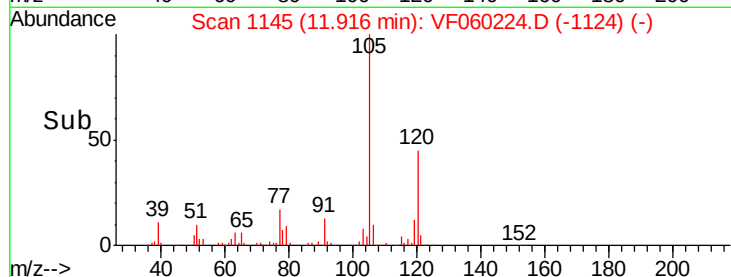
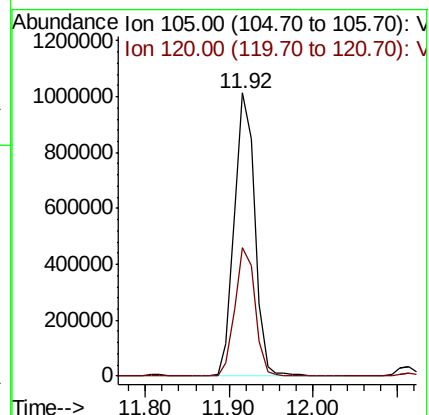
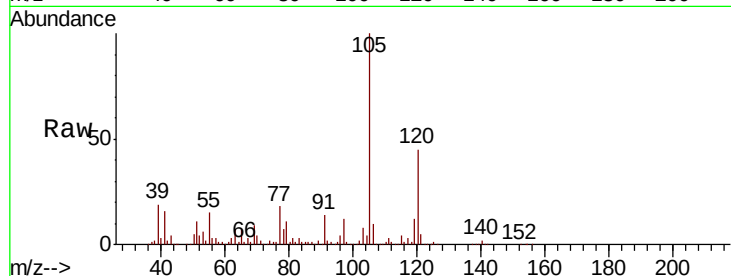
EP1-Q2-G5

Tot Ion:105 Resp: 1719906

Ion Ratio Lower Upper

105 100

120 45.2 21.6 64.8



#83

tert-Butylbenzene

Concen: 16.99 ug/l

RT: 12.22 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VF060224.D

Acq: 7 Sep 2018 21:37

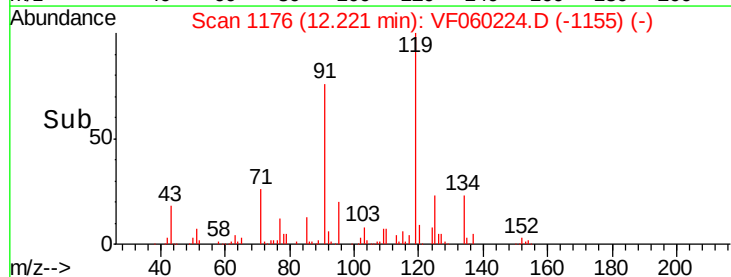
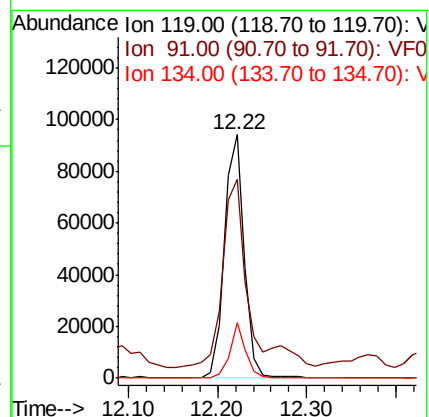
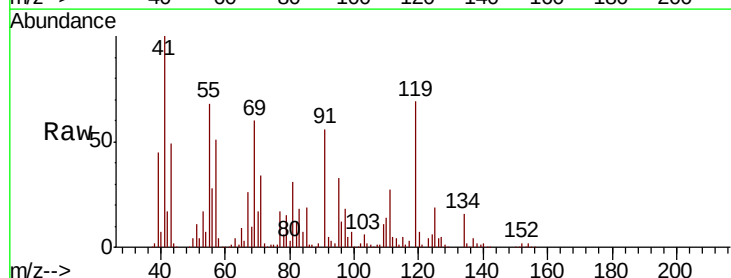
Tgt Ion:119 Resp: 147785

Ion Ratio Lower Upper

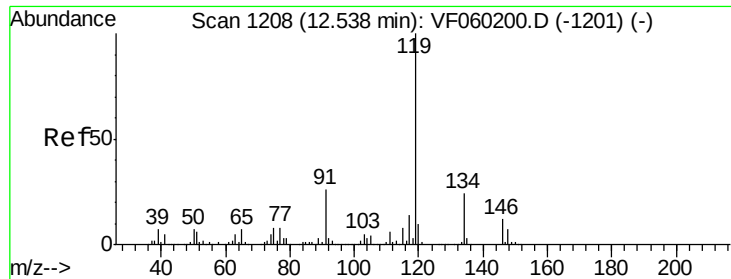
119 100

91 81.9 35.8 107.4

134 22.6 11.6 34.7



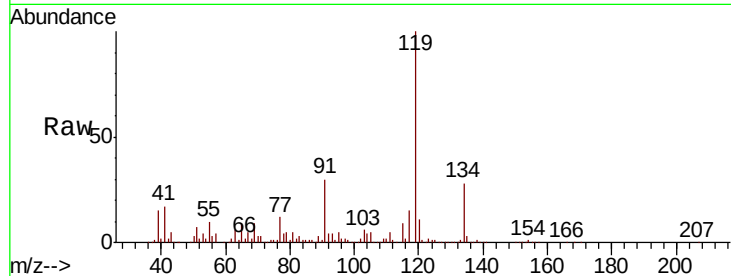




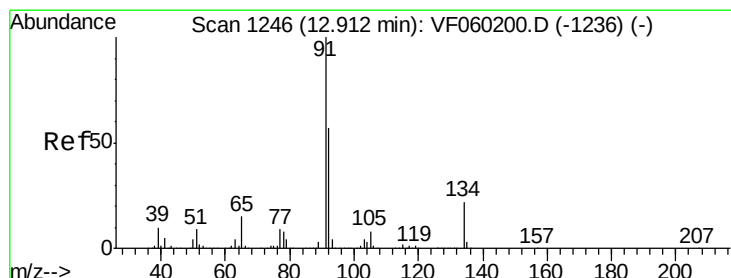
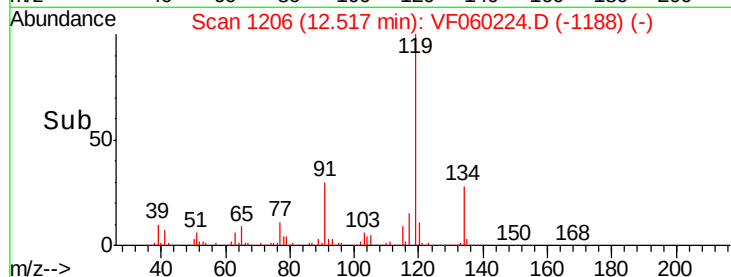
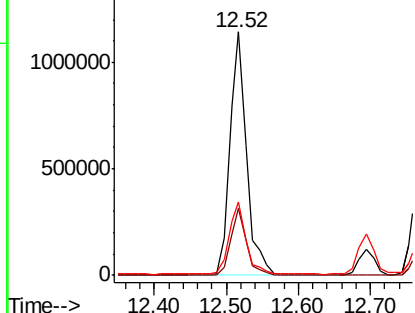
#86  
 p-Isopropyltoluene  
 Concen: 171.30 ug/l  
 RT: 12.52 min Scan# 1206  
 Delta R.T. -0.02 min  
 Lab File: VF060224.D  
 Acq: 7 Sep 2018 21:37

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-G5

Tot Ion:119 Resp: 1825323  
 Ion Ratio Lower Upper  
 119 100  
 134 27.7 12.0 36.0  
 91 30.2 12.9 38.7

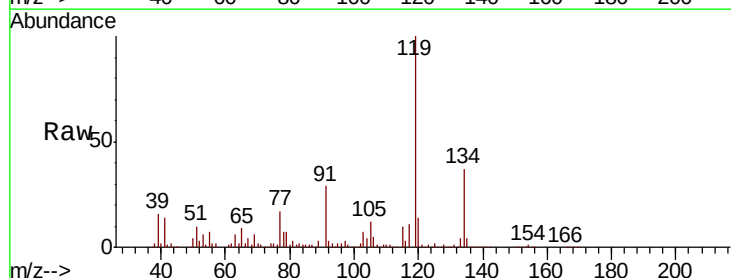


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 134.00 (133.70 to 134.70): V  
 Ion 91.00 (90.70 to 91.70): V

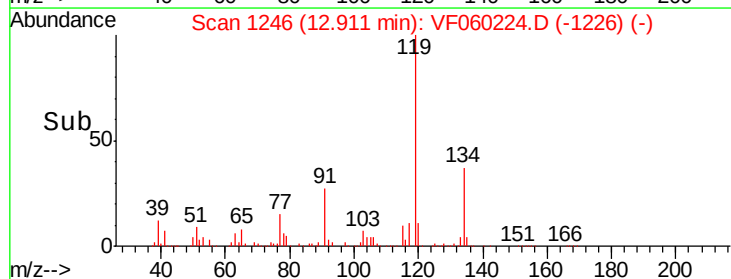
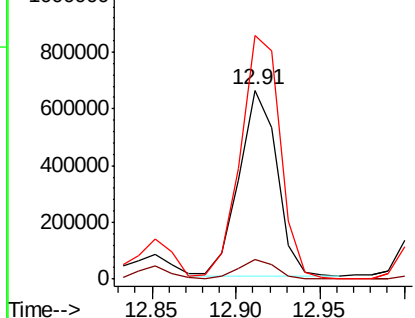


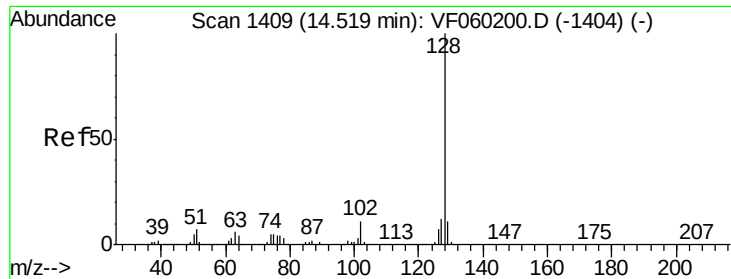
#89  
 n-Butylbenzene  
 Concen: 98.81 ug/l  
 RT: 12.91 min Scan# 1246  
 Delta R.T. -0.00 min  
 Lab File: VF060224.D  
 Acq: 7 Sep 2018 21:37

Tgt Ion: 91 Resp: 1018369  
 Ion Ratio Lower Upper  
 91 100  
 92 10.4 28.4 85.3#  
 134 129.0 11.1 33.3#



Abundance Ion 91.00 (90.70 to 91.70): VF0  
 Ion 92.00 (91.70 to 92.70): VF0  
 Ion 134.00 (133.70 to 134.70): V





#95  
 Naphthalene  
 Concen: 5.09 ug/l  
 RT: 14.53 min Scan# 1410  
 Delta R.T. 0.01 min  
 Lab File: VF060224.D  
 Acq: 7 Sep 2018 21:37

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-G5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 31.5  | 9.9   | 14.9# |
| 129     | 91.0  | 8.9   | 13.3# |

