

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110718\  
 Data File : VF060635.D  
 Acq On : 7 Nov 2018 18:12  
 Operator : VA/AP  
 Sample : J5769-20RE  
 Misc : 4.58g/5mL/MSVOA-F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 GOFFLE-RD-3RE

Quant Time: Nov 07 17:34:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 03 05:29:31 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 290788   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 504017   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 398085   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 190384   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 4.85   | 65  | 119565   | 40.70 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 81.40% |      |
| 35) Dibromofluoromethane    | 4.12   | 113 | 149431   | 38.37 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 76.74% |      |
| 50) Toluene-d8              | 7.56   | 98  | 359659   | 31.18 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 62.36% |      |
| 62) 4-Bromofluorobenzene    | 11.41  | 95  | 155538   | 30.83 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 61.66% |      |

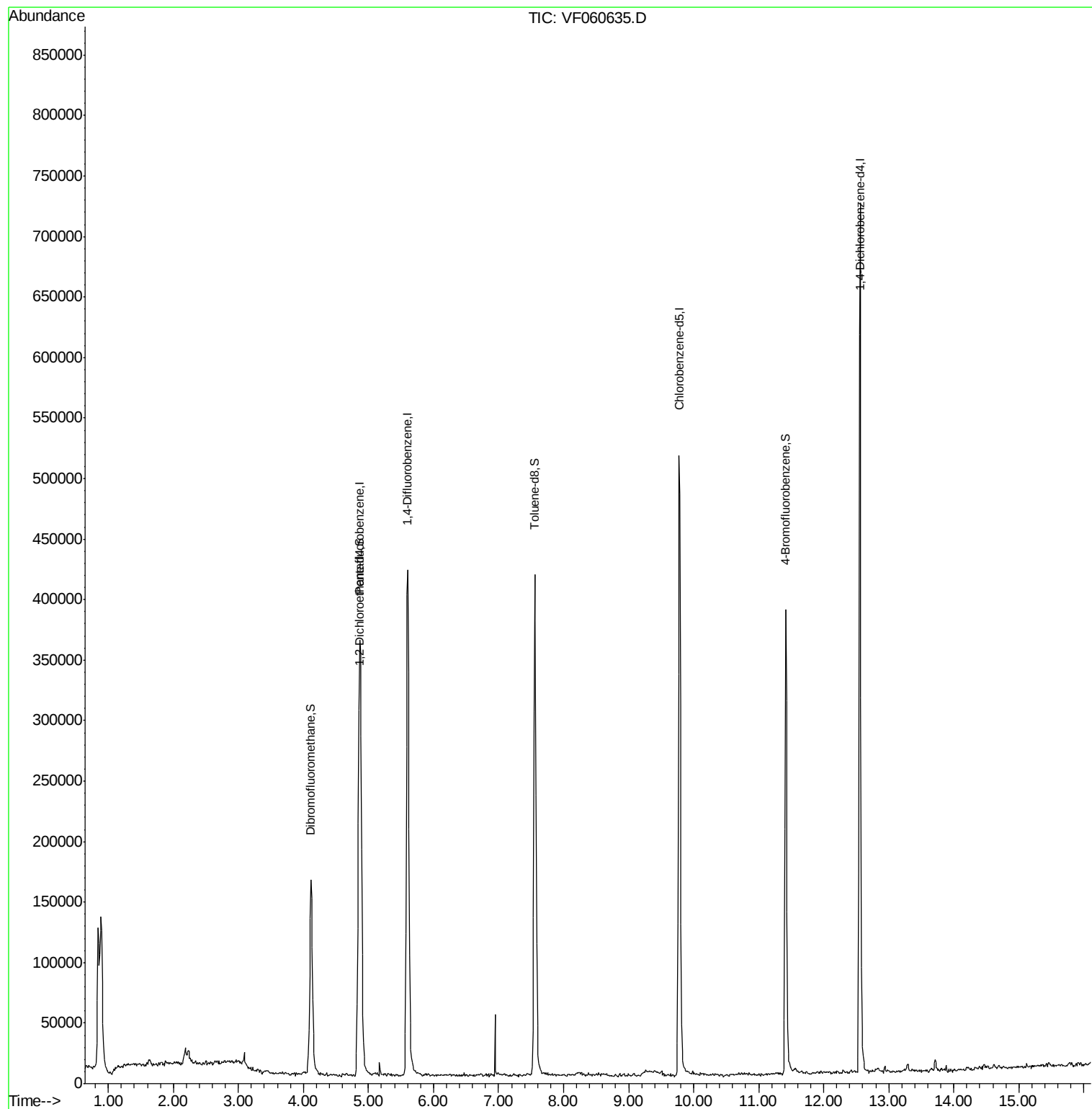
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

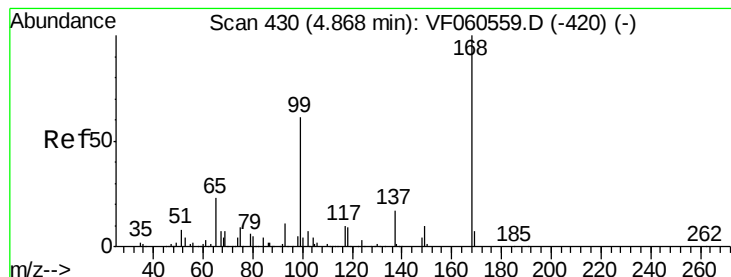
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Nov 03 05:29:31 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF060635.D

Acq: 7 Nov 2018 18:12

Instrument :

MSVOA\_F

ClientSampleId :

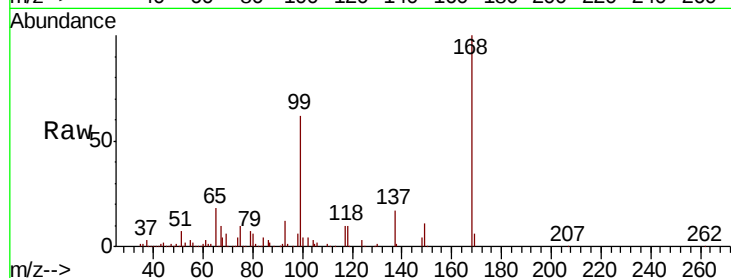
GOFFLE-RD-3RE

Tot Ion:168 Resp: 290788

Ion Ratio Lower Upper

168 100

99 61.5 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

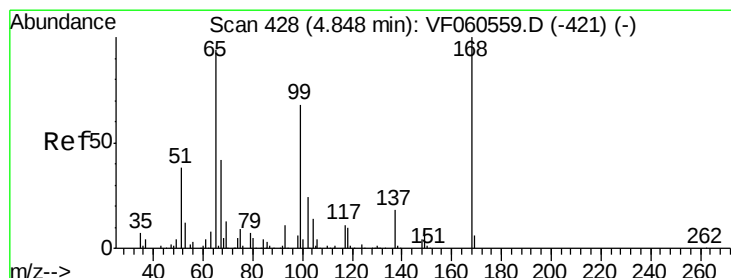
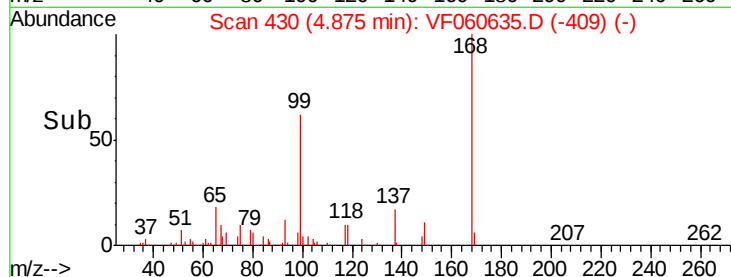
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#33

1,2-Dichloroethane-d4

Concen: 40.696 ug/l

RT: 4.85 min Scan# 427

Delta R.T. -0.00 min

Lab File: VF060635.D

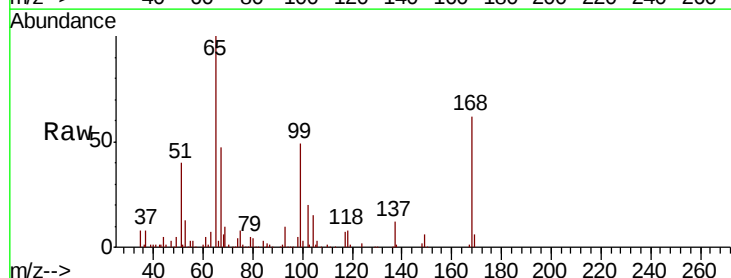
Acq: 7 Nov 2018 18:12

Tgt Ion: 65 Resp: 119565

Ion Ratio Lower Upper

65 100

67 46.5 0.0 101.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.85

40000

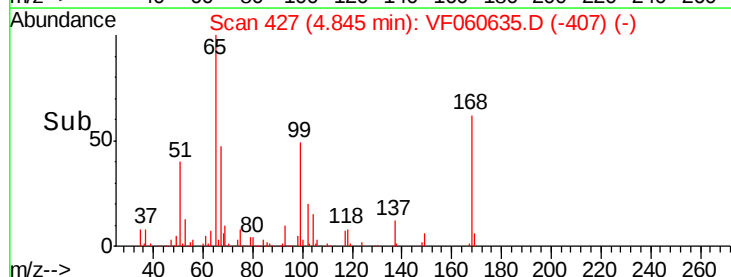
30000

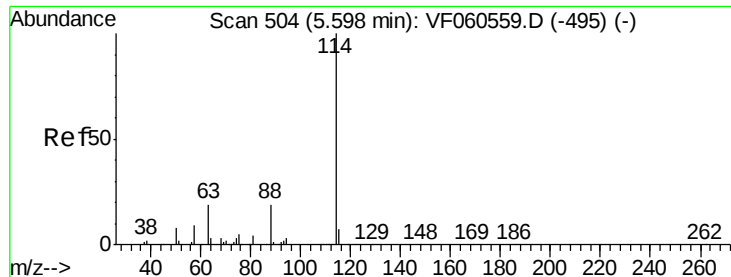
20000

10000

0

Time--> 4.70 4.80 4.90 5.00





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF060635.D

Acq: 7 Nov 2018 18:12

Instrument :

MSVOA\_F

ClientSampleId :

GOFFLE-RD-3RE

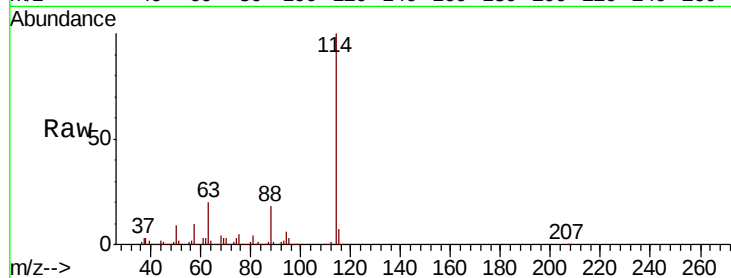
Tot Ion:114 Resp: 504017

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.0

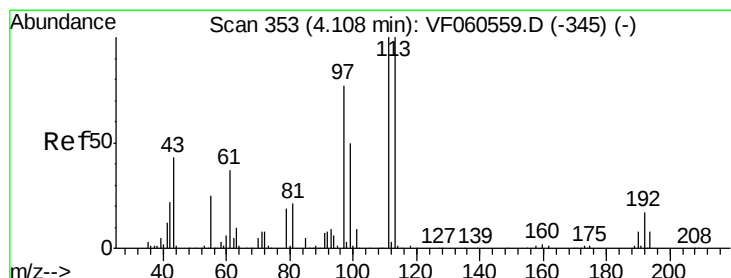
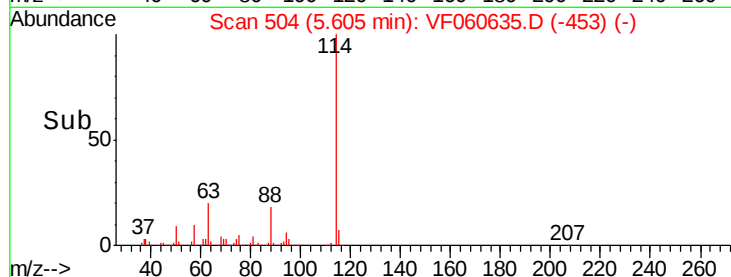
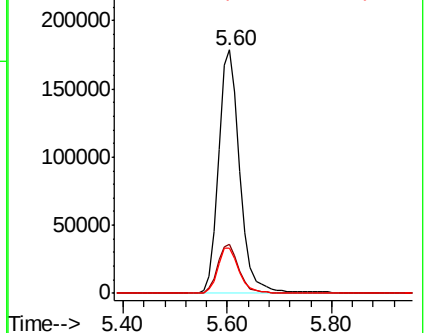
88 18.4 0.0 38.2



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: 38.374 ug/l

RT: 4.12 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF060635.D

Acq: 7 Nov 2018 18:12

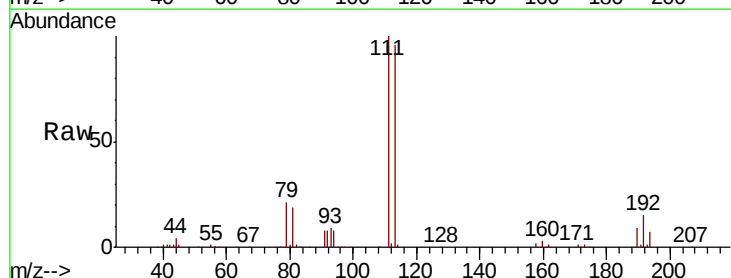
Tgt Ion:113 Resp: 149431

Ion Ratio Lower Upper

113 100

111 103.7 79.9 119.9

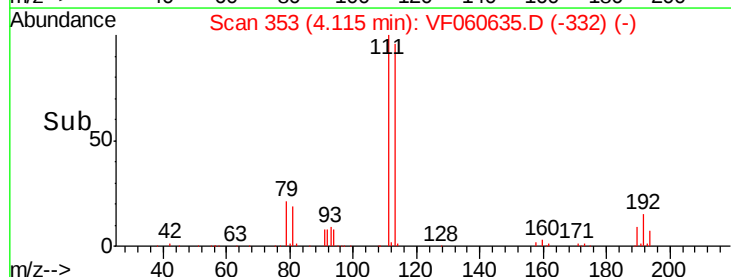
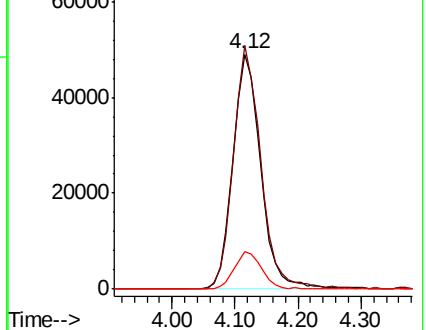
192 15.9 13.3 19.9

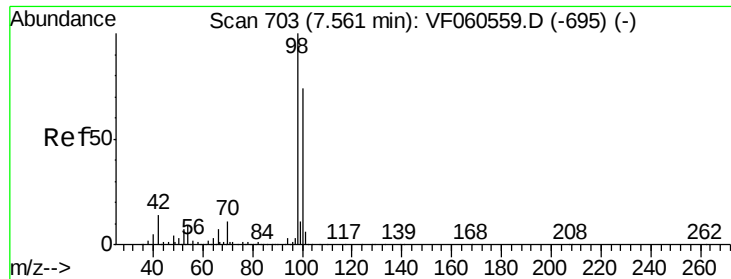


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

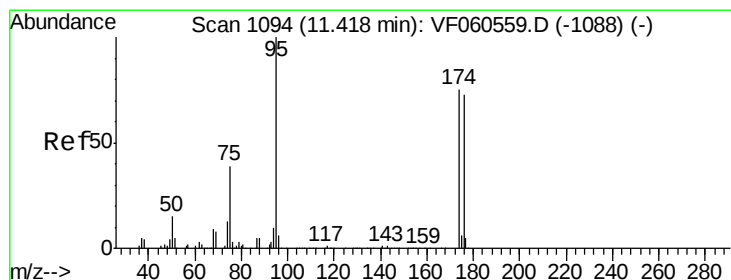
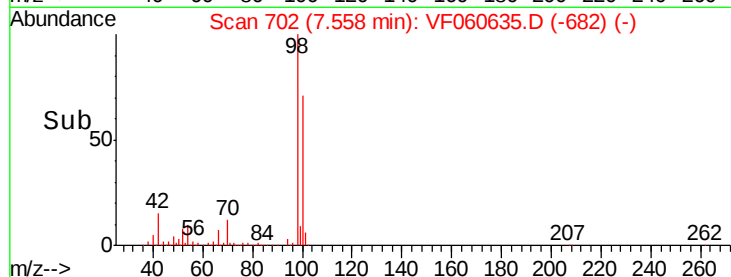
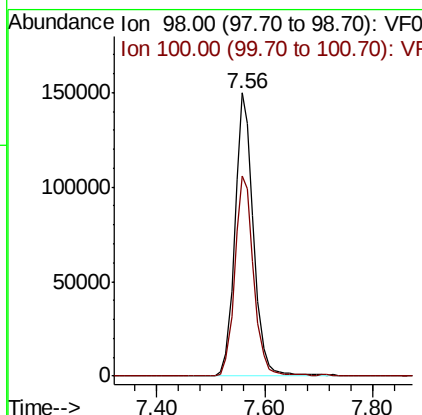
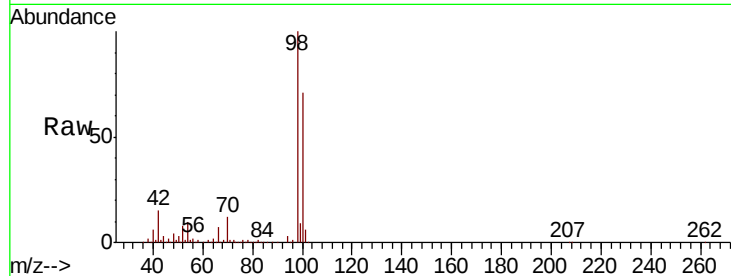




#50  
Toluene-d8  
Concen: 31.179 ug/l  
RT: 7.56 min Scan# 702  
Delta R.T. -0.00 min  
Lab File: VF060635.D  
Acq: 7 Nov 2018 18:12

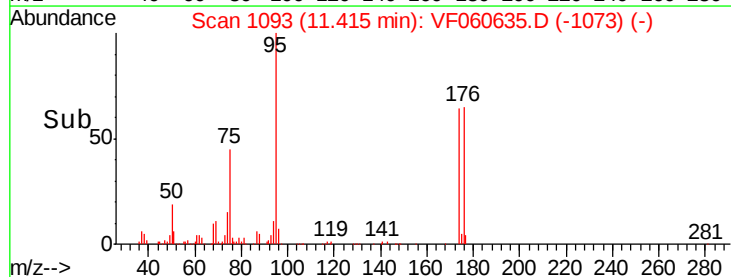
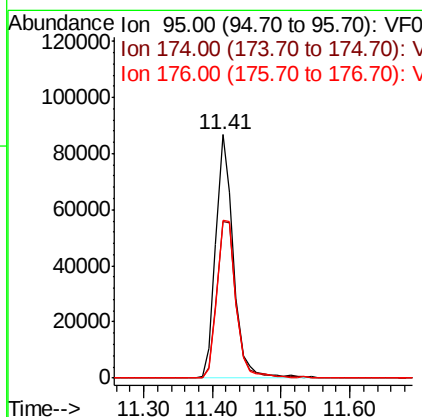
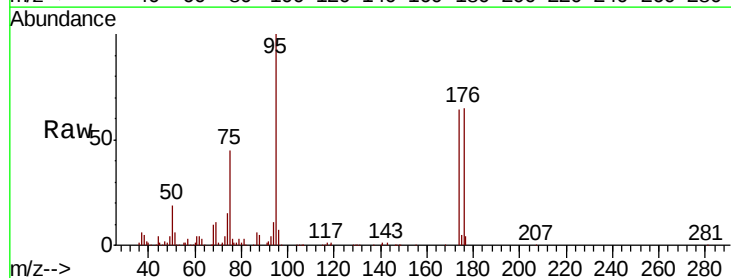
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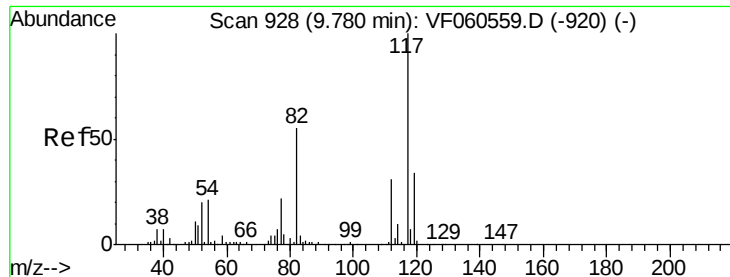
Tot Ion: 98 Resp: 359659  
Ion Ratio Lower Upper  
98 100  
100 70.6 59.4 89.2



#62  
4-Bromofluorobenzene  
Concen: 30.826 ug/l  
RT: 11.41 min Scan# 1093  
Delta R.T. -0.00 min  
Lab File: VF060635.D  
Acq: 7 Nov 2018 18:12

Tgt Ion: 95 Resp: 155538  
Ion Ratio Lower Upper  
95 100  
174 64.5 0.0 149.0  
176 64.8 0.0 145.6

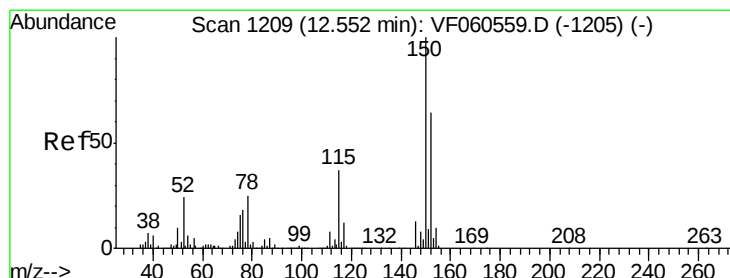
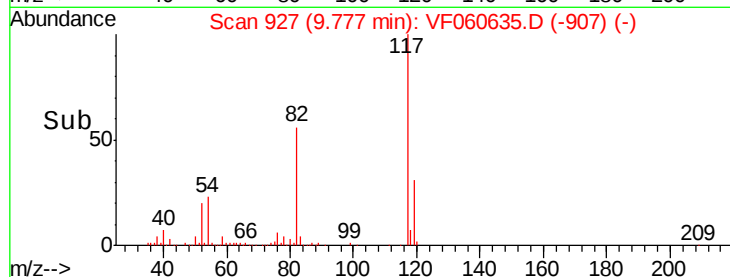
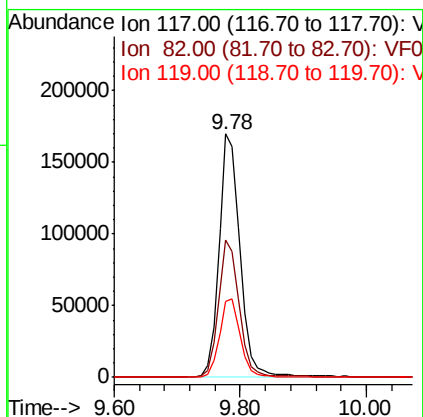
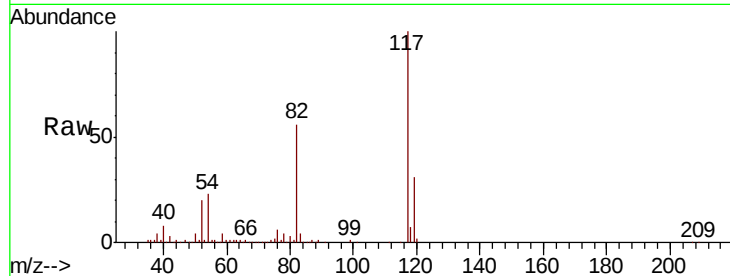




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 927  
Delta R.T. -0.00 min  
Lab File: VF060635.D  
Acq: 7 Nov 2018 18:12

Instrument :  
MSVOA\_F  
ClientSampleId :  
GOFFLE-RD-3RE

Tot Ion:117 Resp: 398085  
Ion Ratio Lower Upper  
117 100  
82 56.2 43.9 65.9  
119 31.0 27.4 41.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1209  
Delta R.T. 0.01 min  
Lab File: VF060635.D  
Acq: 7 Nov 2018 18:12

Tgt Ion:152 Resp: 190384  
Ion Ratio Lower Upper  
152 100  
115 57.7 29.6 88.8  
150 158.1 0.0 315.6

