

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF073118\  
 Data File : VF059747.D  
 Acq On : 1 Aug 2018 10:37  
 Operator : VA/AP  
 Sample : J3825-13  
 Misc : 5.86g/5mL/MSVOA F/SOIL  
 ALS Vial : 100 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CL-01-073018-B

Quant Time: Aug 01 17:29:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 15:23:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 213131   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 305695   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 276698   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 146787   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 5.02   | 65  | 186871   | 48.79 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.58% |      |
| 35) Dibromofluoromethane    | 4.30   | 113 | 151509   | 47.72 | ug/l   | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.44% |      |
| 50) Toluene-d8              | 7.71   | 98  | 280491   | 37.88 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 75.76% |      |
| 62) 4-Bromofluorobenzene    | 11.52  | 95  | 141643   | 34.56 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 69.12% |      |

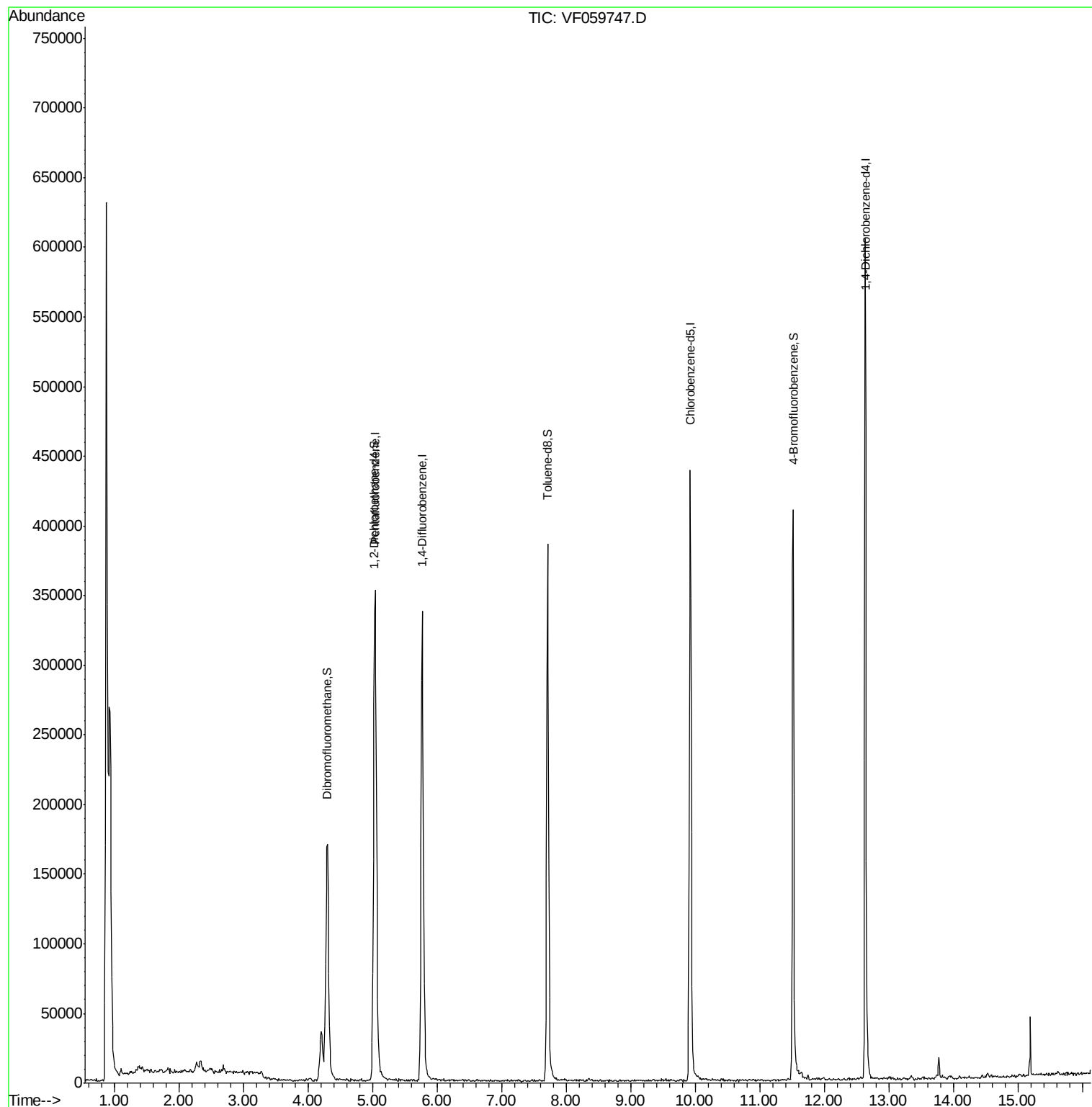
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

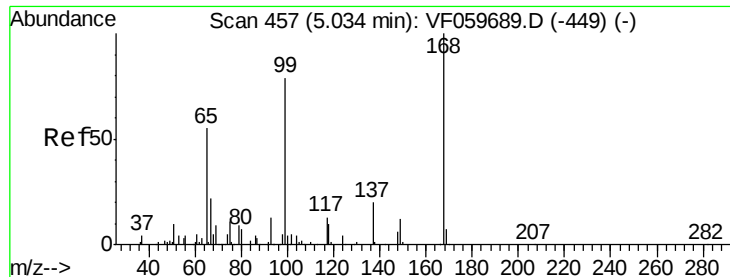
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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CL-01-073018-B

Quant Time: Aug 01 17:29:22 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 15:23:22 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059747.D

Acq: 1 Aug 2018 10:37

Instrument :

MSVOA\_F

ClientSampleId :

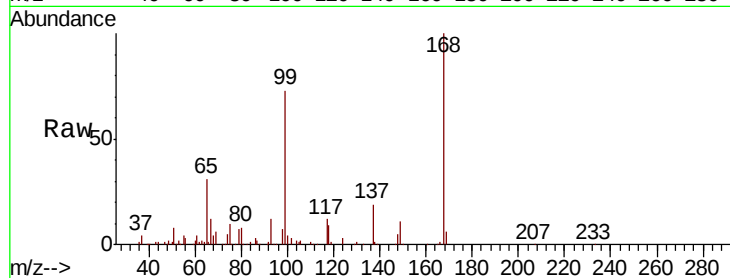
CL-01-073018-B

Tot Ion:168 Resp: 213131

Ion Ratio Lower Upper

168 100

99 72.5 63.3 94.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

80000

60000

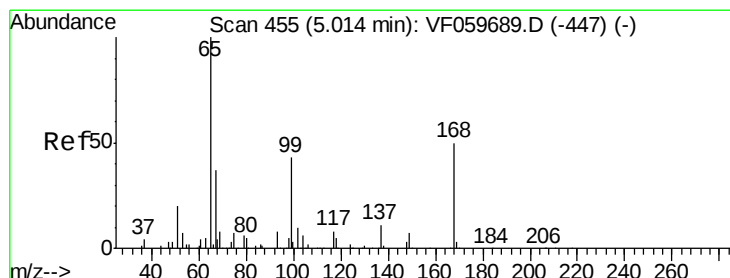
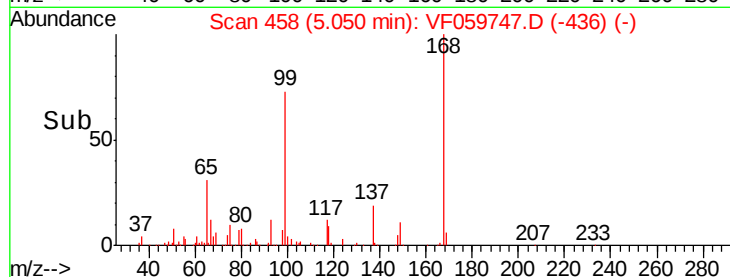
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#33

1,2-Dichloroethane-d4

Concen: 48.787 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059747.D

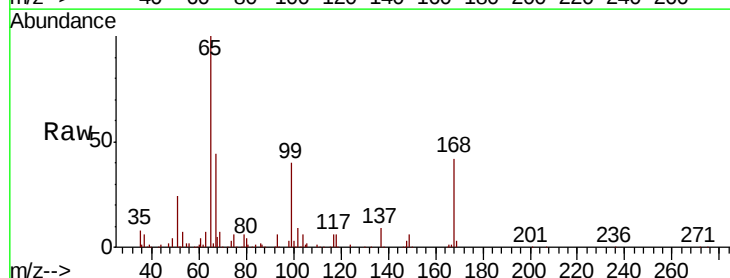
Acq: 1 Aug 2018 10:37

Tgt Ion: 65 Resp: 186871

Ion Ratio Lower Upper

65 100

67 44.4 0.0 84.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.02

60000

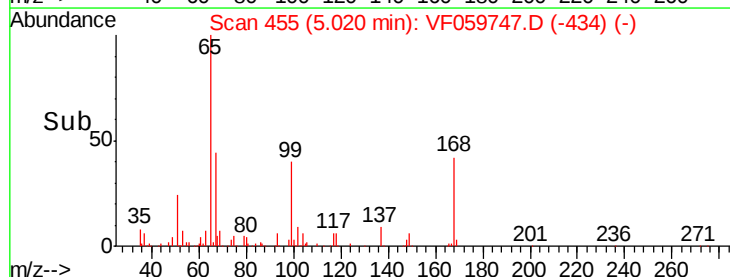
40000

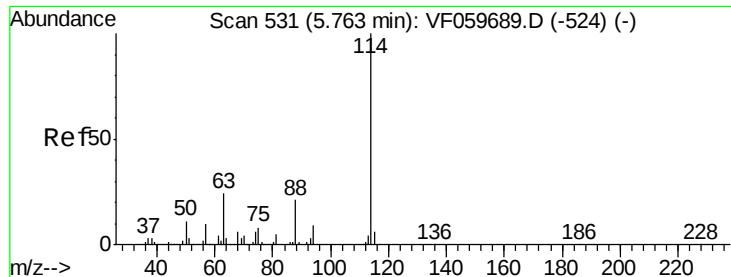
20000

0

Time-->

4.90 5.00 5.10 5.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059747.D

Acq: 1 Aug 2018 10:37

Instrument :

MSVOA\_F

ClientSampleId :

CL-01-073018-B

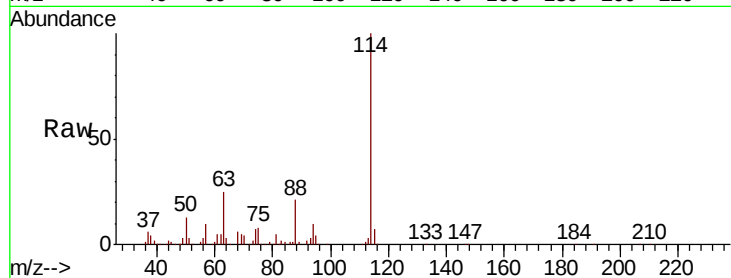
Tot Ion:114 Resp: 305695

Ion Ratio Lower Upper

114 100

63 24.8 0.0 47.4

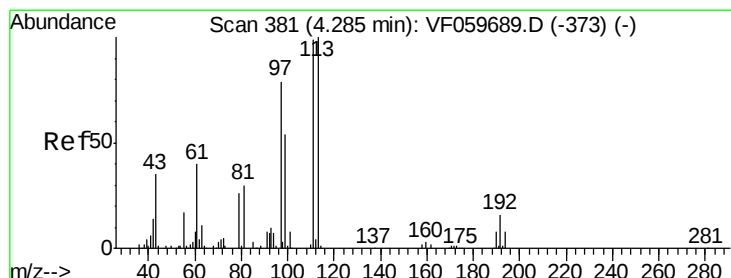
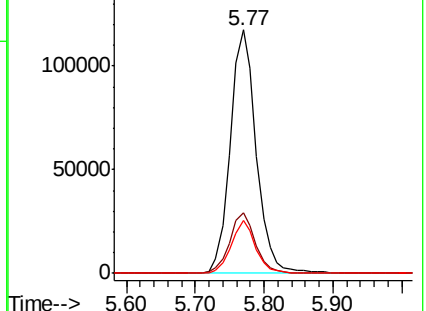
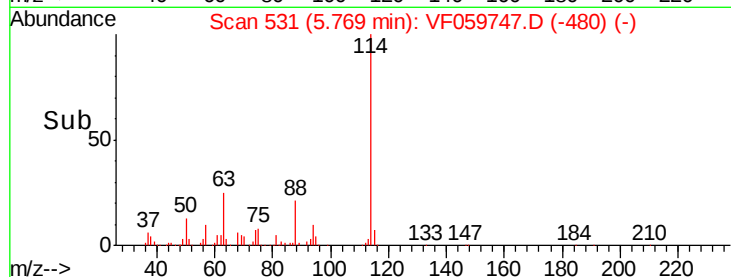
88 21.5 0.0 41.2



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: 47.718 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059747.D

Acq: 1 Aug 2018 10:37

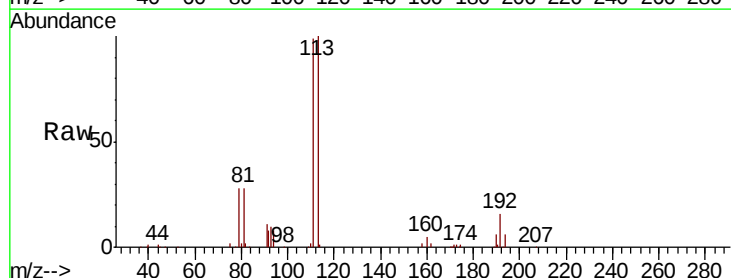
Tgt Ion:113 Resp: 151509

Ion Ratio Lower Upper

113 100

111 99.4 79.0 118.4

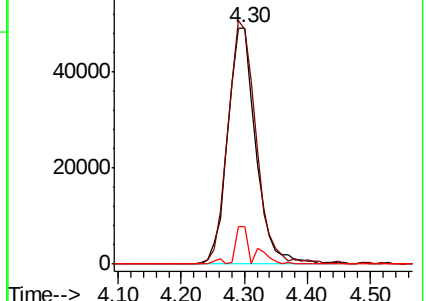
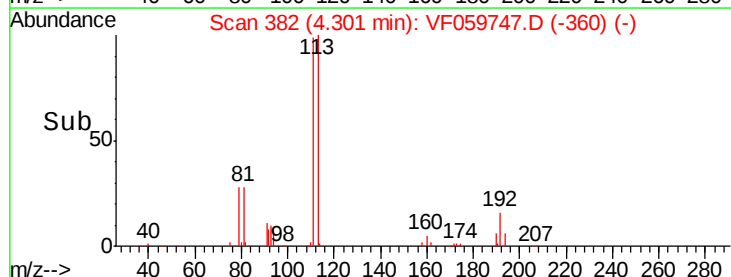
192 15.8 13.2 19.8

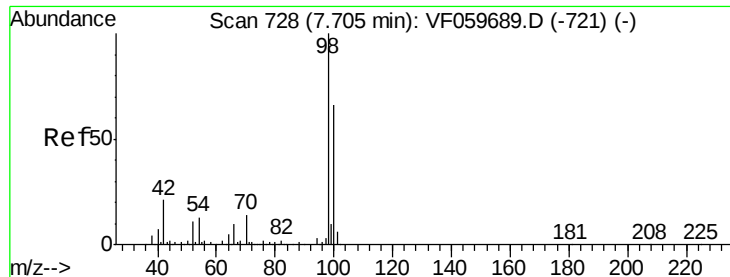


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

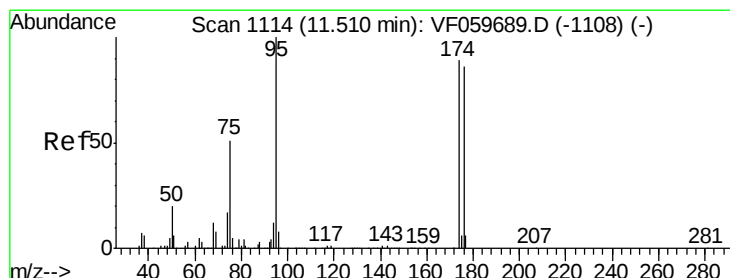
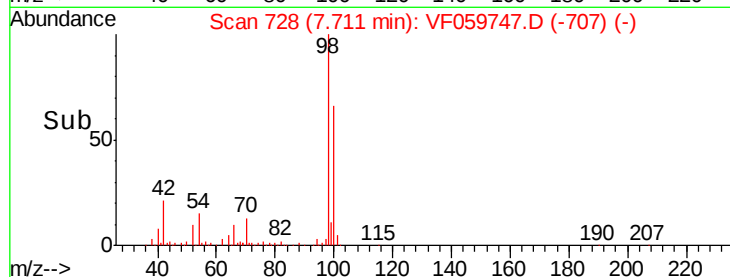
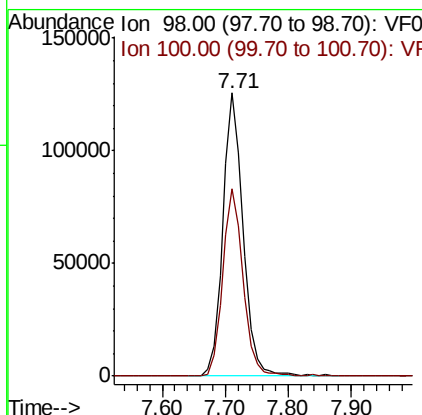
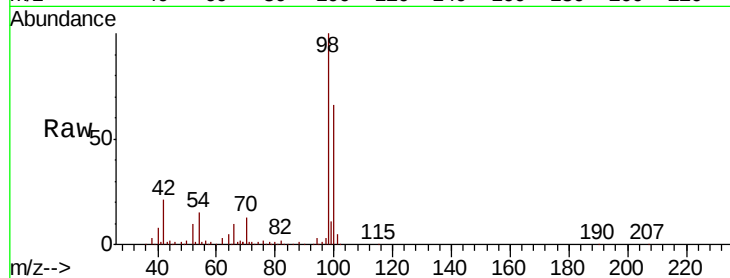




#50  
Toluene-d8  
Concen: 37.883 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. 0.01 min  
Lab File: VF059747.D  
Acq: 1 Aug 2018 10:37

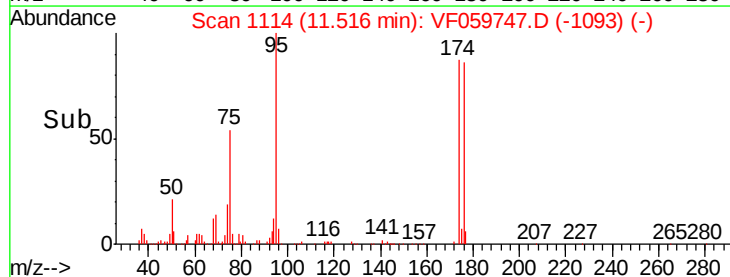
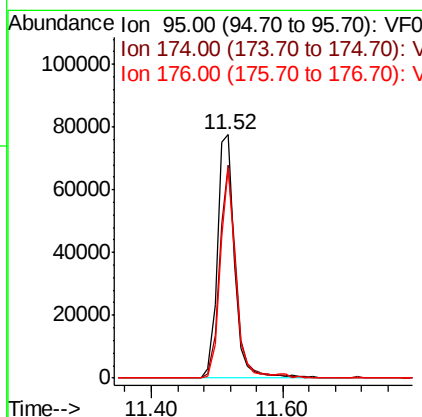
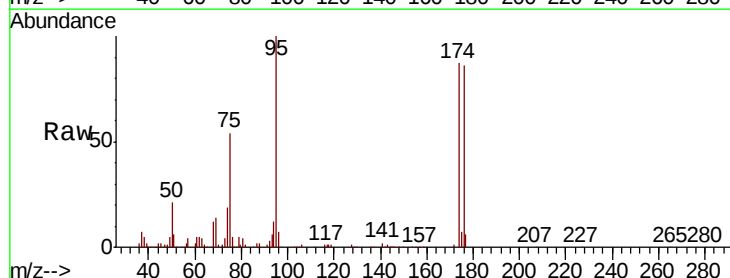
Instrument :  
MSVOA\_F  
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CL-01-073018-B

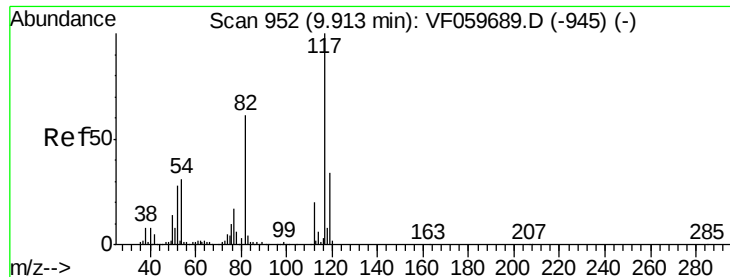
Tot Ion: 98 Resp: 280491  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.8 79.2



#62  
4-Bromofluorobenzene  
Concen: 34.556 ug/l  
RT: 11.52 min Scan# 1114  
Delta R.T. 0.01 min  
Lab File: VF059747.D  
Acq: 1 Aug 2018 10:37

Tgt Ion: 95 Resp: 141643  
Ion Ratio Lower Upper  
95 100  
174 87.3 0.0 178.4  
176 86.1 0.0 173.0

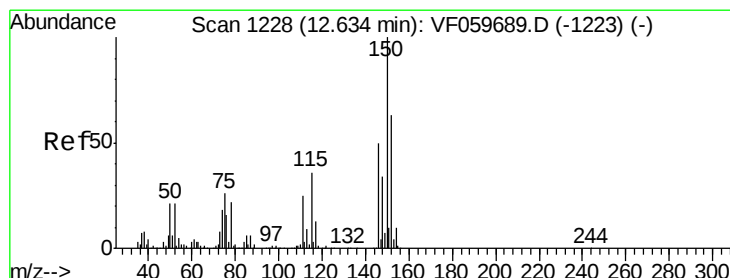
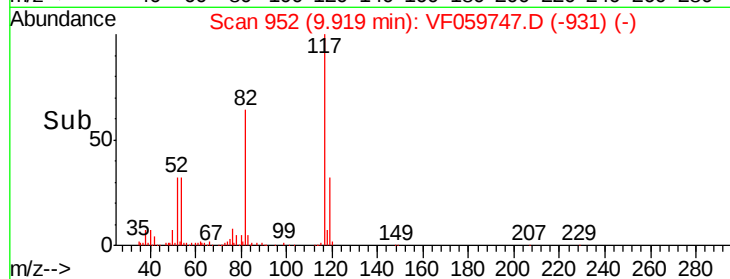
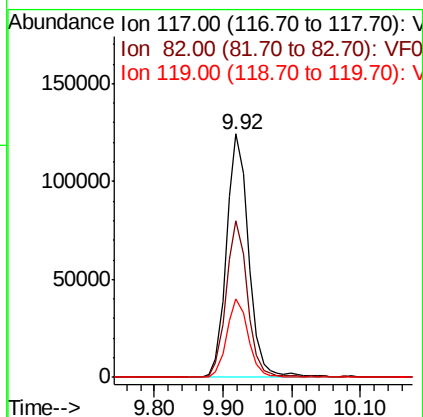
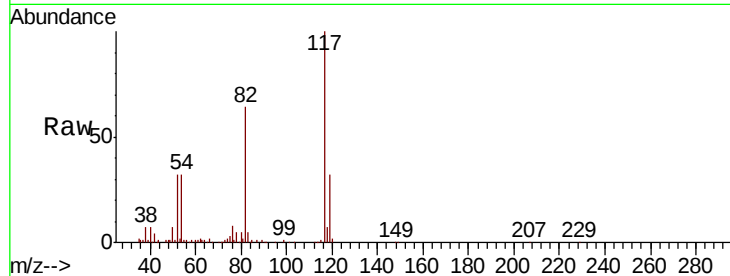




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.92 min Scan# 952  
Delta R.T. 0.01 min  
Lab File: VF059747.D  
Acq: 1 Aug 2018 10:37

Instrument :  
MSVOA\_F  
ClientSampleId :  
CL-01-073018-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 64.2  | 49.0  | 73.4  |
| 119     | 32.0  | 27.3  | 40.9  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.63 min Scan# 1227  
Delta R.T. -0.00 min  
Lab File: VF059747.D  
Acq: 1 Aug 2018 10:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 65.3  | 28.2  | 84.6  |
| 150     | 151.4 | 0.0   | 316.2 |

