

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051519\  
 Data File : VF062613.D  
 Acq On : 15 May 2019 17:17  
 Operator : FY/SY  
 Sample : K2770-04  
 Misc : 4.40g/5mL/MSVOA F/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SOIL-DRUM

Quant Time: May 15 17:39:02 2019  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 05:06:28 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 631349   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 1148717  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 722105   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 235638   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| 33) 1,2-Dichloroethane-d4   | 5.04   | 65  | 206013   | 43.19 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.38% |       |
| 35) Dibromofluoromethane    | 4.31   | 113 | 346147   | 40.49 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 80.98% |       |
| 50) Toluene-d8              | 7.71   | 98  | 678910   | 33.70 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 67.40% |       |
| 62) 4-Bromofluorobenzene    | 11.50  | 95  | 206520   | 29.35 | ug/l   | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 58.70% |       |

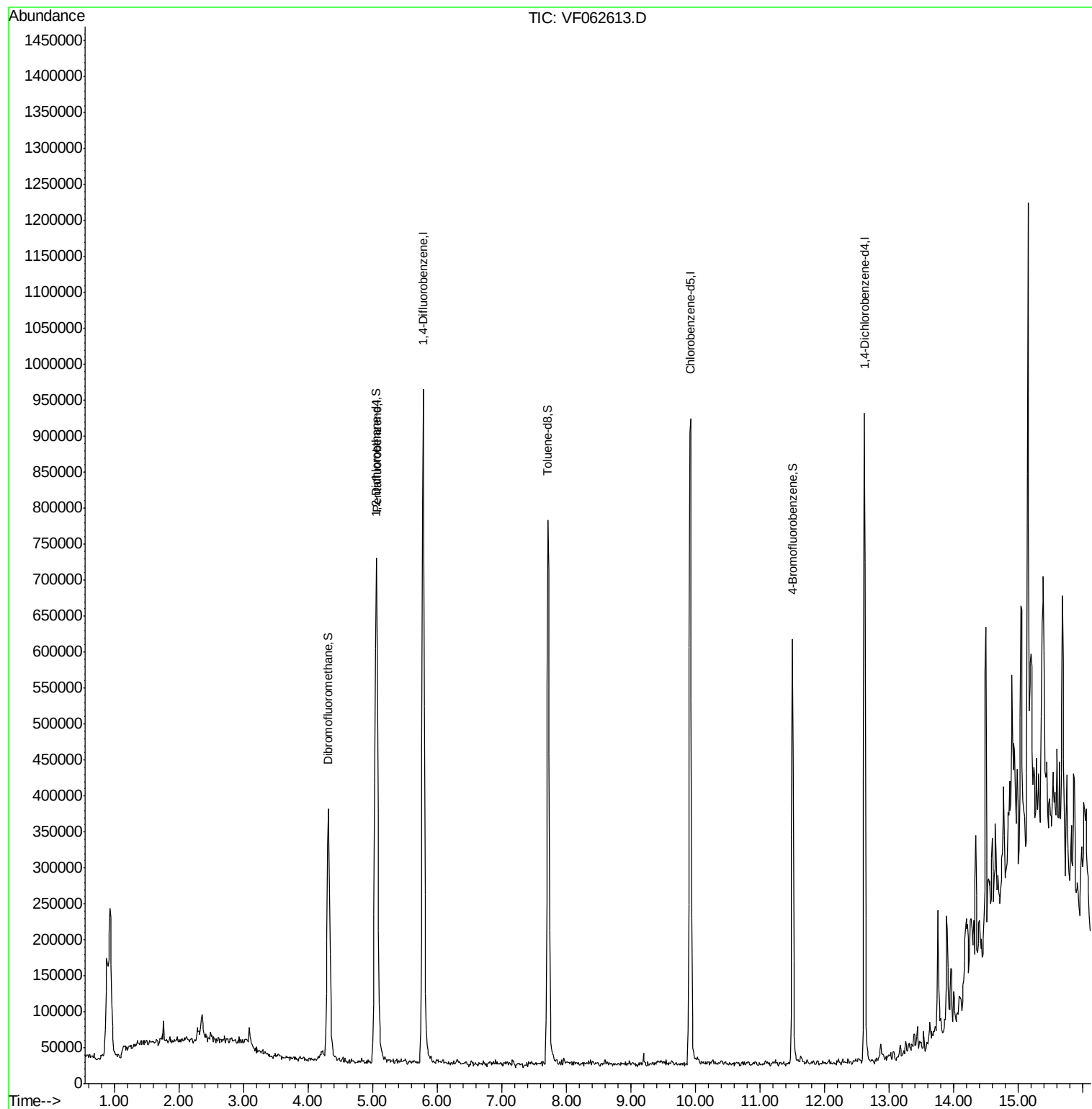
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

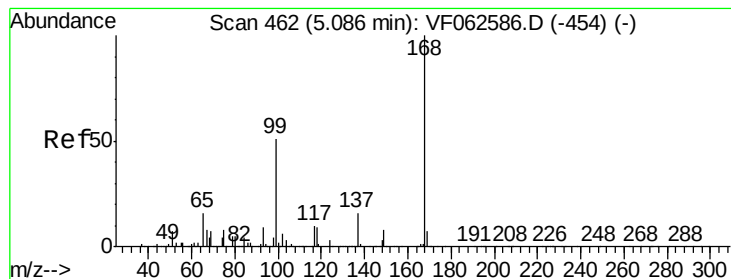
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 15 05:06:28 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.02 min

Lab File: VF062613.D

Acq: 15 May 2019 17:17

Instrument :

MSVOA\_F

ClientSampleId :

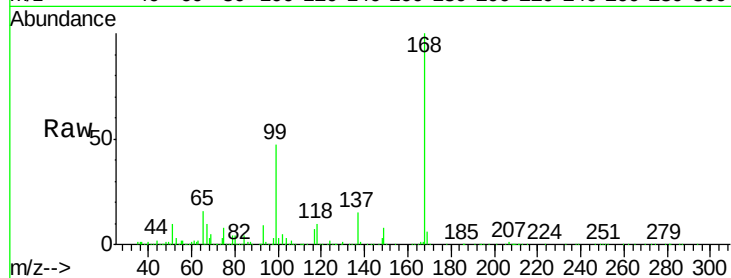
SOIL-DRUM

Tot Ion:168 Resp: 631349

Ion Ratio Lower Upper

168 100

99 47.0 41.0 61.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

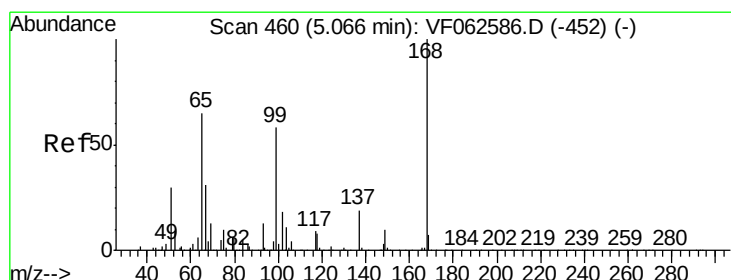
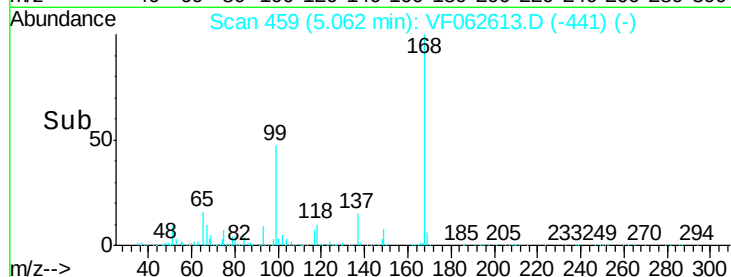
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 43.193 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF062613.D

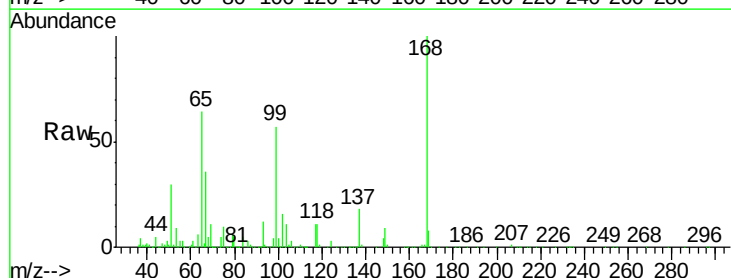
Acq: 15 May 2019 17:17

Tgt Ion: 65 Resp: 206013

Ion Ratio Lower Upper

65 100

67 56.4 0.0 116.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.04

80000

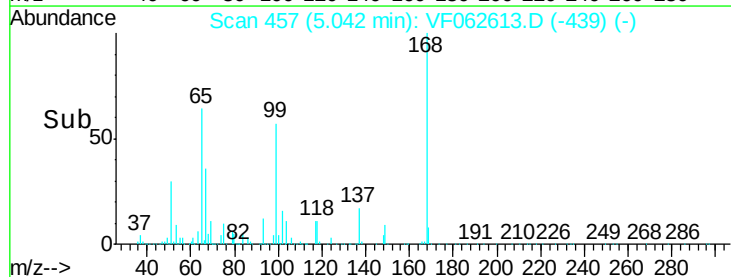
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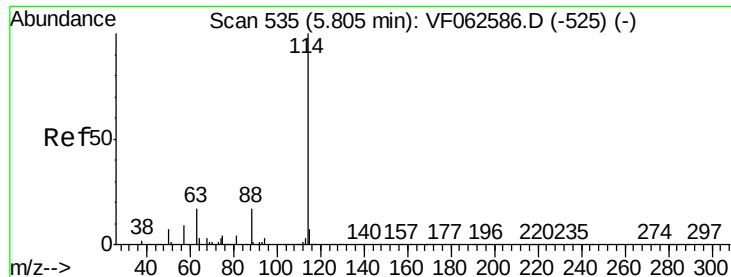
40000

20000

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Time-->

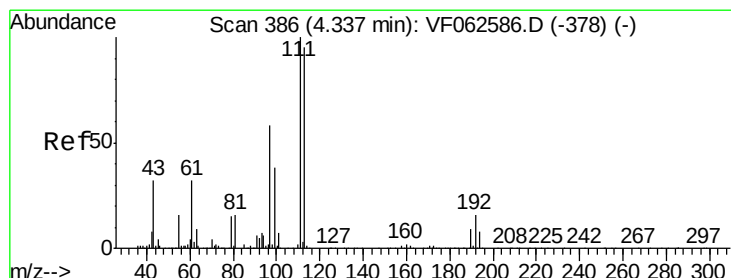
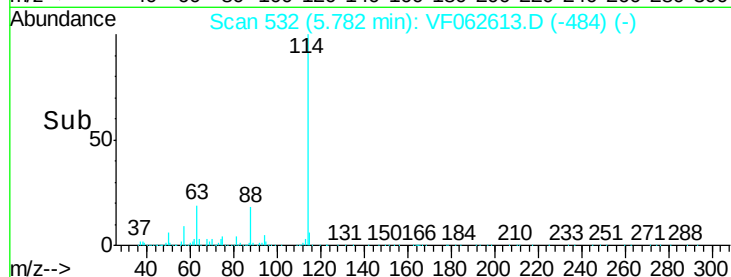
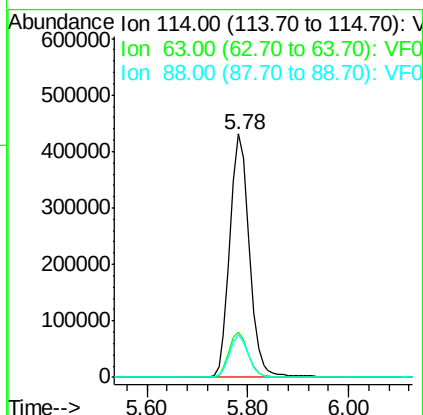
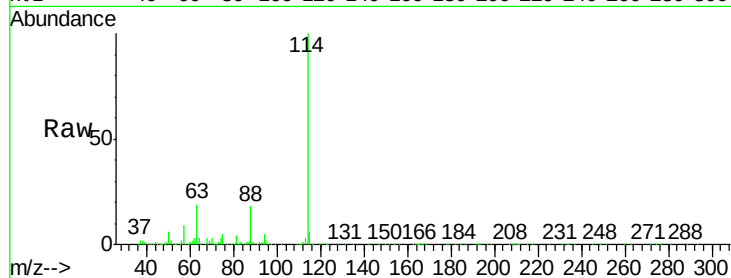




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.78 min Scan# 532  
Delta R.T. -0.02 min  
Lab File: VF062613.D  
Acq: 15 May 2019 17:17

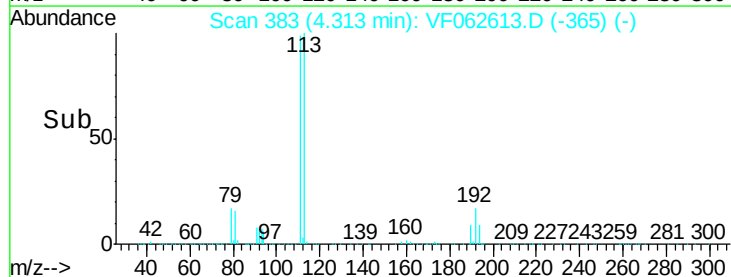
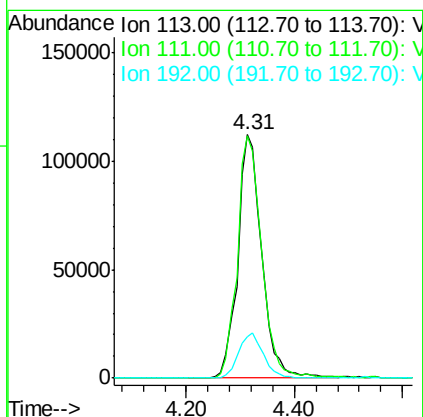
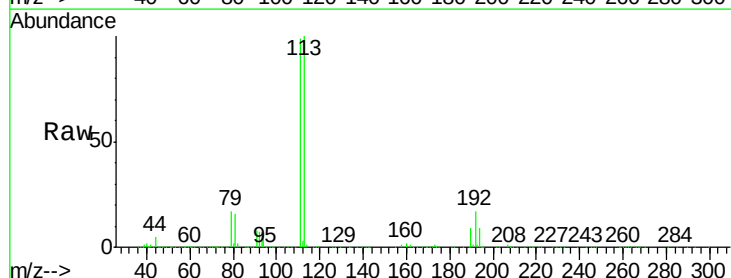
Instrument :  
MSVOA\_F  
ClientSampleId :  
SOIL-DRUM

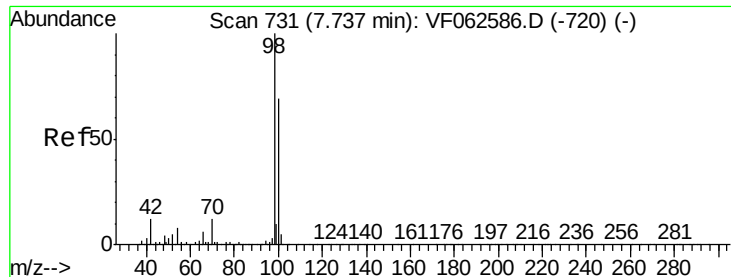
Tot Ion:114 Resp: 1148717  
Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 34.6  
88 17.7 0.0 33.6



#35  
Dibromofluoromethane  
Concen: 40.487 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. -0.02 min  
Lab File: VF062613.D  
Acq: 15 May 2019 17:17

Tgt Ion:113 Resp: 346147  
Ion Ratio Lower Upper  
113 100  
111 99.5 83.9 125.9  
192 17.2 13.7 20.5





#50

Toluene-d8

Concen: 33.699 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF062613.D

Acq: 15 May 2019 17:17

Instrument :

MSVOA\_F

ClientSampleId :

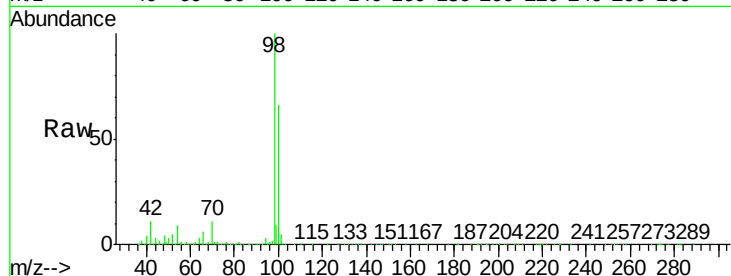
SOIL-DRUM

Tot Ion: 98 Resp: 678910

Ion Ratio Lower Upper

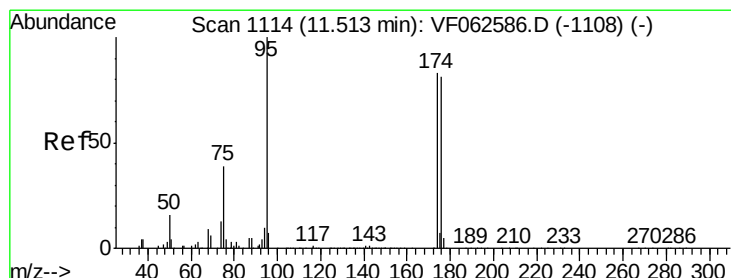
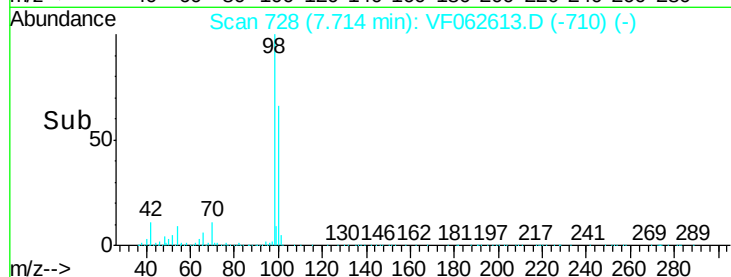
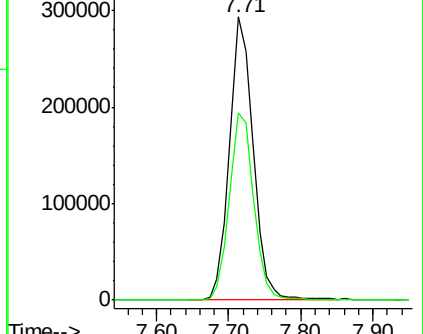
98 100

100 66.2 55.4 83.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#62

4-Bromofluorobenzene

Concen: 29.352 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062613.D

Acq: 15 May 2019 17:17

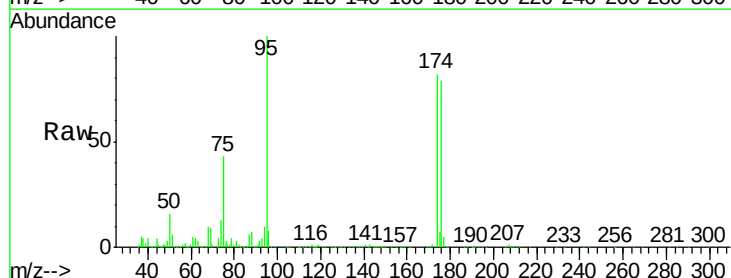
Tgt Ion: 95 Resp: 206520

Ion Ratio Lower Upper

95 100

174 82.3 0.0 166.6

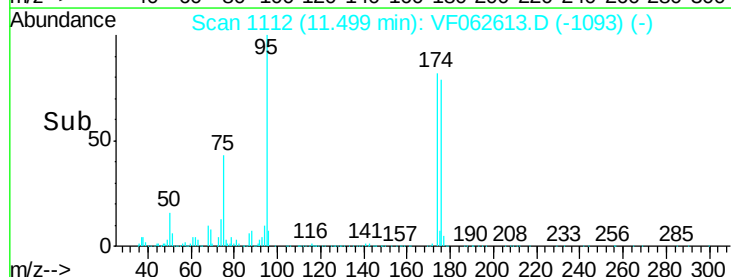
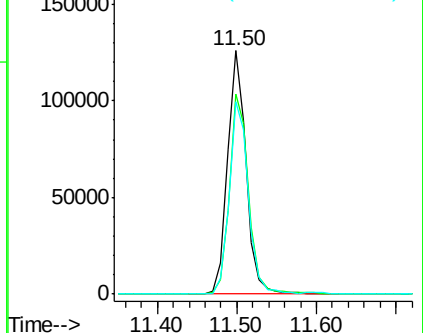
176 78.8 0.0 161.8

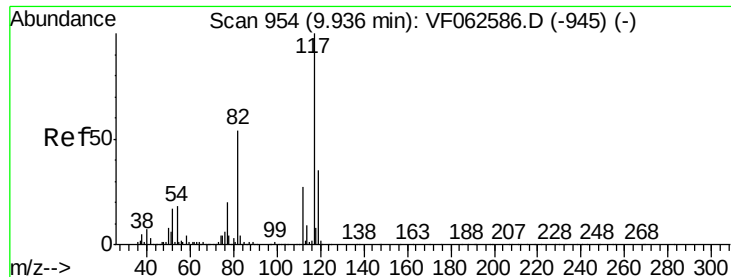


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0

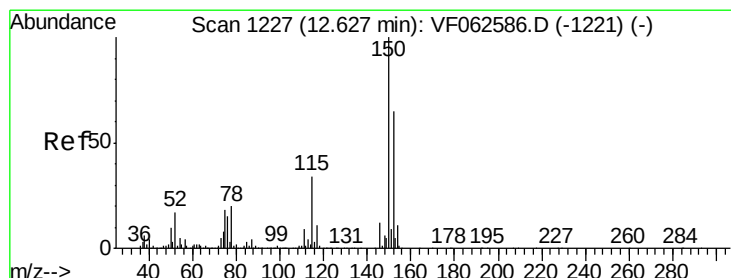
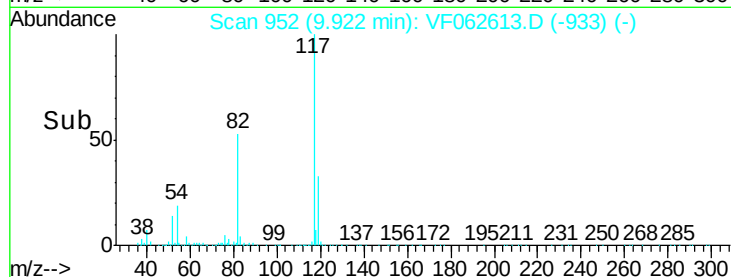
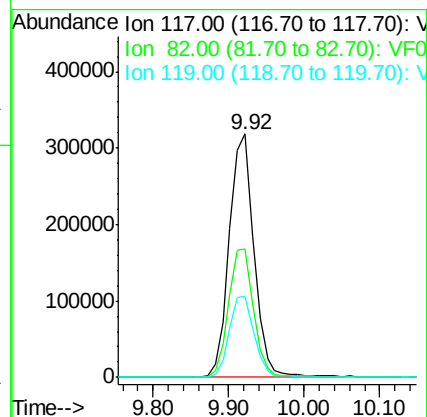
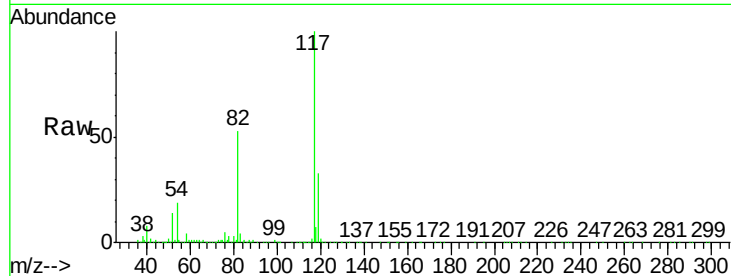




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.92 min Scan# 952  
Delta R.T. -0.01 min  
Lab File: VF062613.D  
Acq: 15 May 2019 17:17

Instrument :  
MSVOA\_F  
ClientSampleId :  
SOIL-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.0  | 43.4  | 65.0  |
| 119     | 33.4  | 27.7  | 41.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1225  
Delta R.T. -0.01 min  
Lab File: VF062613.D  
Acq: 15 May 2019 17:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.9  | 26.2  | 78.6  |
| 150     | 154.7 | 0.0   | 316.0 |

