

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF051019\  
 Data File : VF062434.D  
 Acq On : 10 May 2019 22:35  
 Operator : FY/SY  
 Sample : VF0510SBL02  
 Misc : 5.00g/5mL/MSVOA\_F/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0510SBL02

Quant Time: May 11 05:51:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 333079   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 447380   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 367261   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 252432   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |       |     |          |       |         |      |
|-----------------------------|-------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65  | 181920   | 57.79 | ug/l    | 0.01 |
| Spiked Amount 50.000        |       |     | Recovery | =     | 115.58% |      |
| 35) Dibromofluoromethane    | 4.31  | 113 | 219832   | 61.68 | ug/l    | 0.01 |
| Spiked Amount 50.000        |       |     | Recovery | =     | 123.36% |      |
| 50) Toluene-d8              | 7.72  | 98  | 447897   | 51.91 | ug/l    | 0.01 |
| Spiked Amount 50.000        |       |     | Recovery | =     | 103.82% |      |
| 62) 4-Bromofluorobenzene    | 11.50 | 95  | 224575   | 57.69 | ug/l    | 0.01 |
| Spiked Amount 50.000        |       |     | Recovery | =     | 115.38% |      |

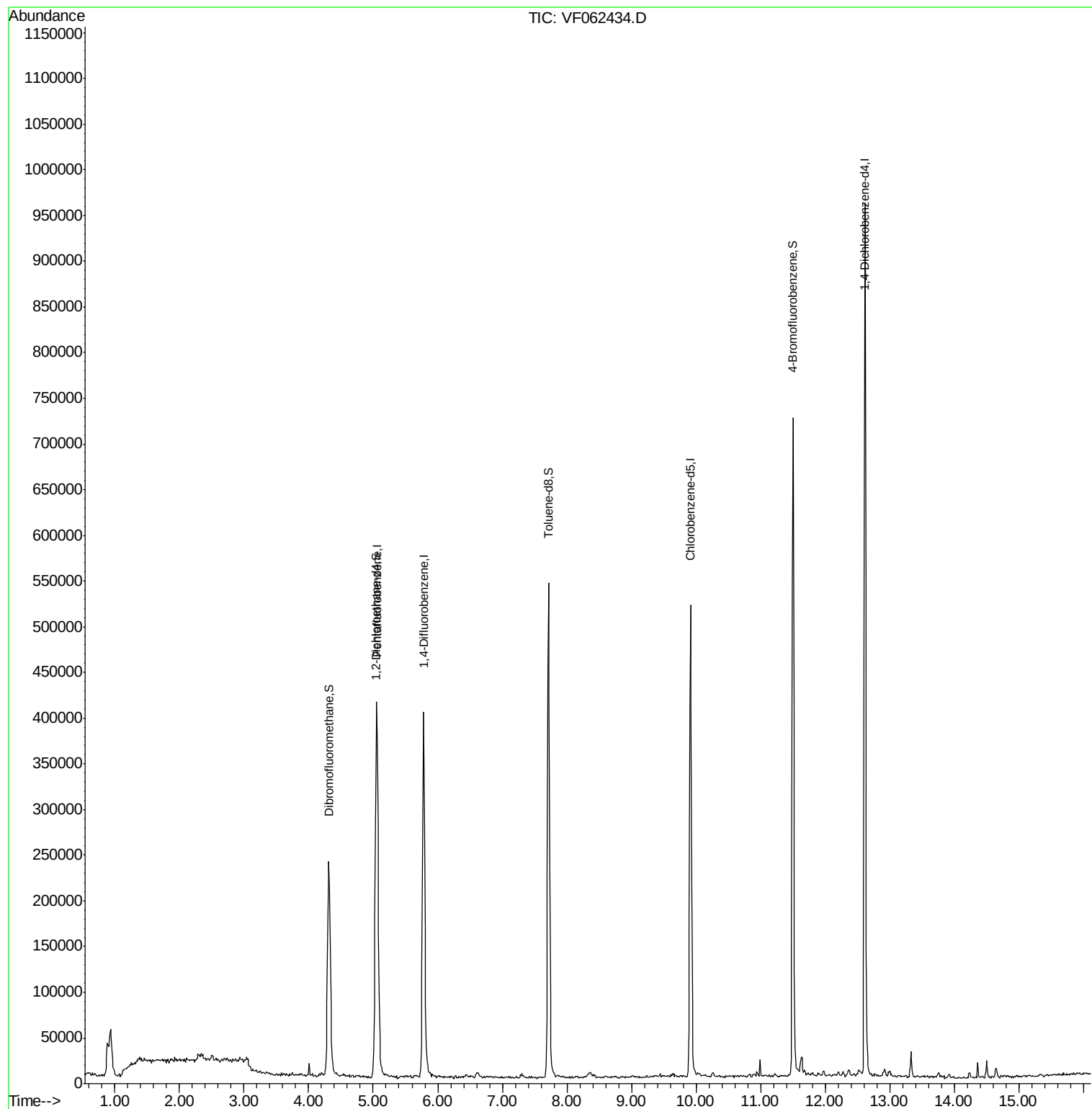
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

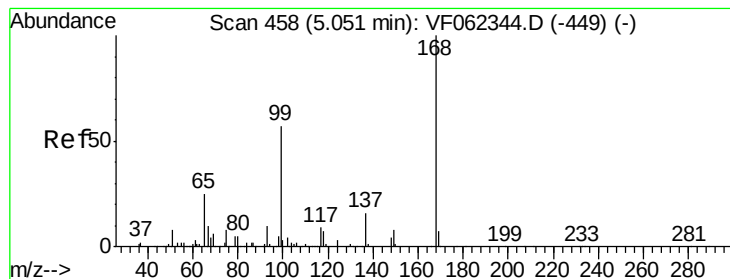
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF051019\  
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MSVOA\_F  
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VF0510SBL02

Quant Time: May 11 05:51:01 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062434.D

Acq: 10 May 2019 22:35

Instrument :

MSVOA\_F

ClientSampleId :

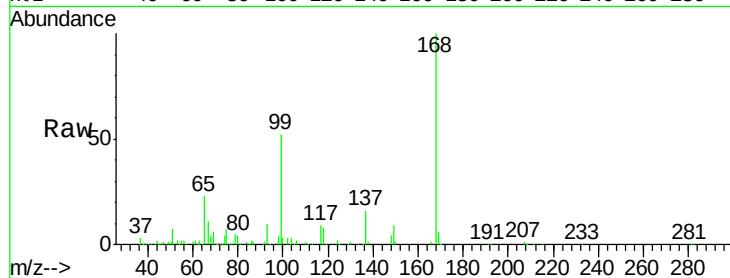
VF0510SBL02

Tgt Ion:168 Resp: 333079

Ion Ratio Lower Upper

168 100

99 52.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

120000

100000

80000

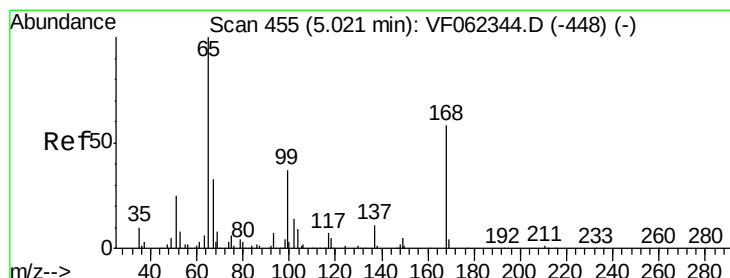
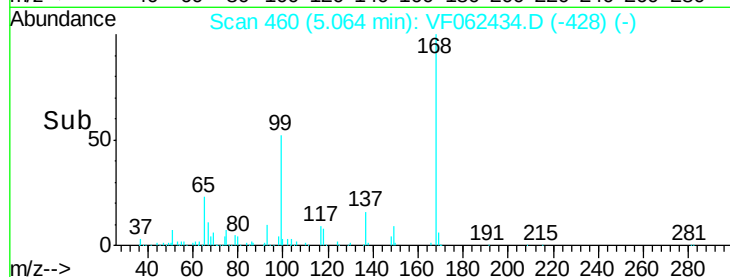
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 57.794 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF062434.D

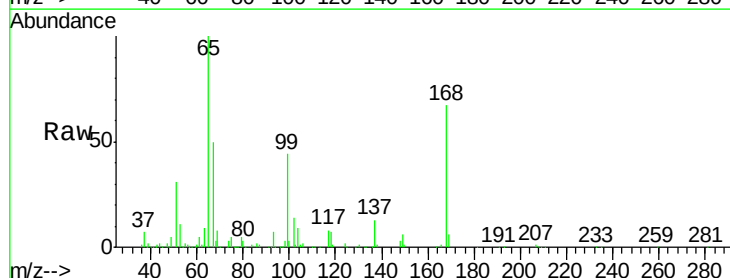
Acq: 10 May 2019 22:35

Tgt Ion: 65 Resp: 181920

Ion Ratio Lower Upper

65 100

67 47.3 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.03

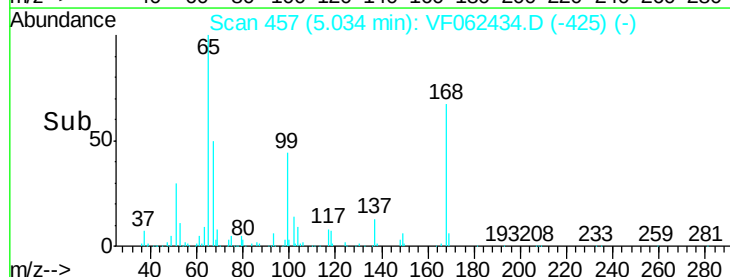
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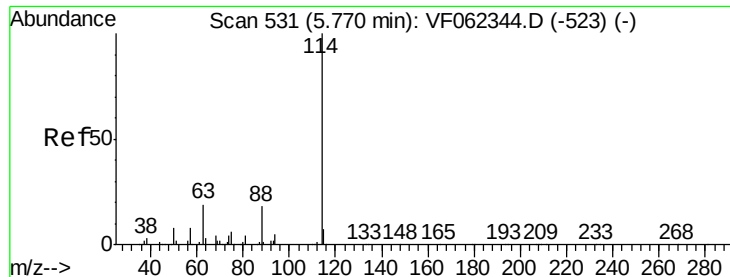
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Time-->

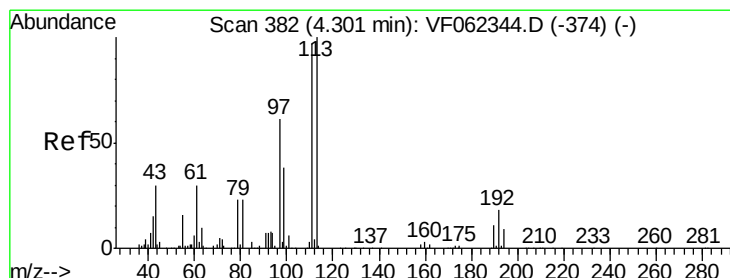
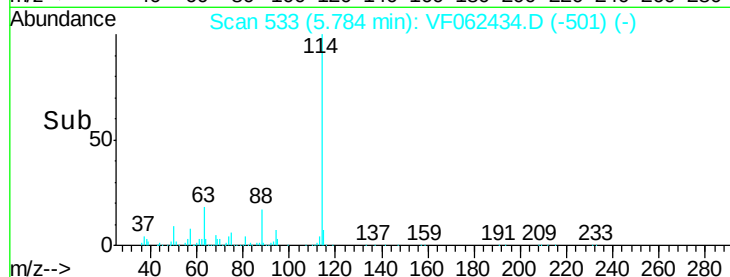
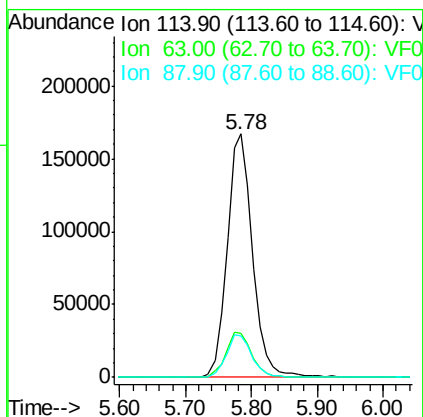
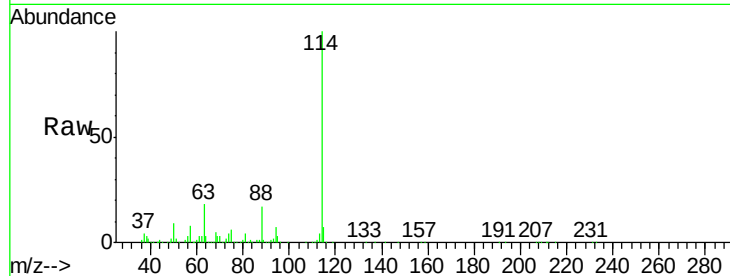




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.78 min Scan# 533  
Delta R.T. 0.01 min  
Lab File: VF062434.D  
Acq: 10 May 2019 22:35

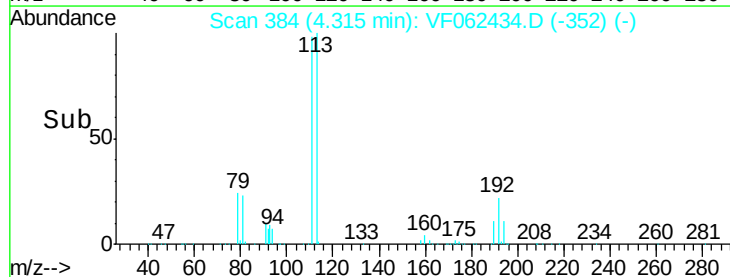
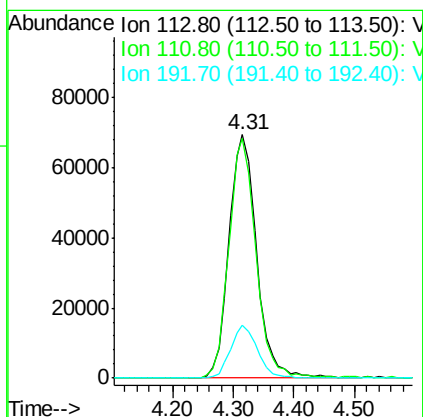
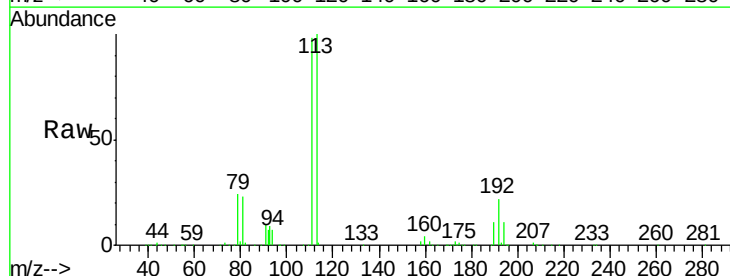
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0510SBL02

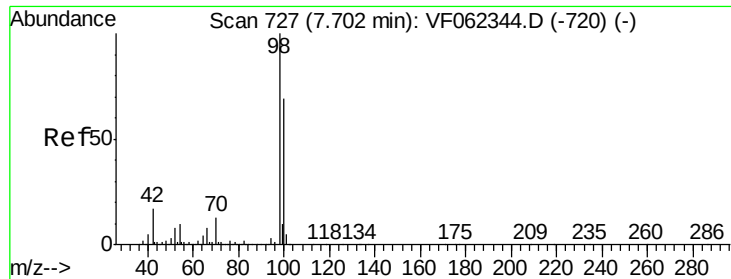
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.3  | 0.0   | 37.4  |
| 88      | 16.9  | 0.0   | 36.4  |



#35  
Dibromofluoromethane  
Concen: 61.678 ug/l  
RT: 4.31 min Scan# 384  
Delta R.T. 0.01 min  
Lab File: VF062434.D  
Acq: 10 May 2019 22:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 96.8  | 79.4  | 119.0 |
| 192     | 21.3  | 16.0  | 24.0  |

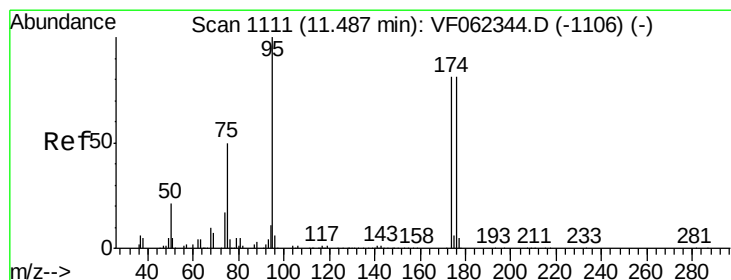
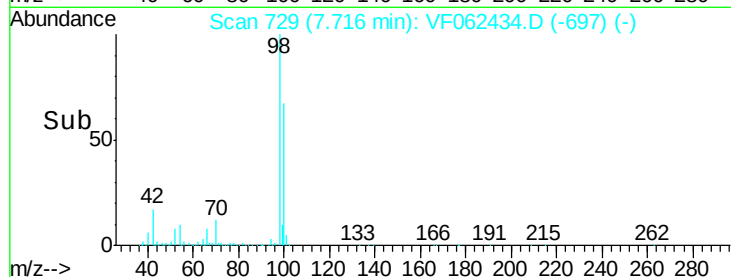
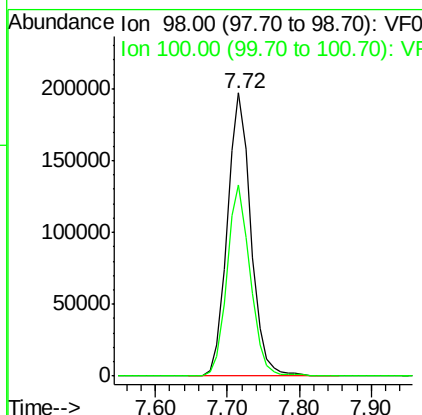
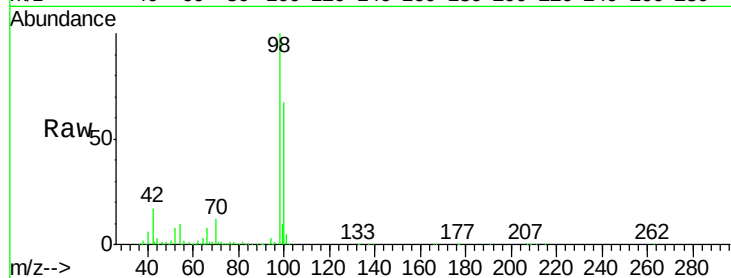




#50  
Toluene-d8  
Concen: 51.914 ug/l  
RT: 7.72 min Scan# 729  
Delta R.T. 0.01 min  
Lab File: VF062434.D  
Acq: 10 May 2019 22:35

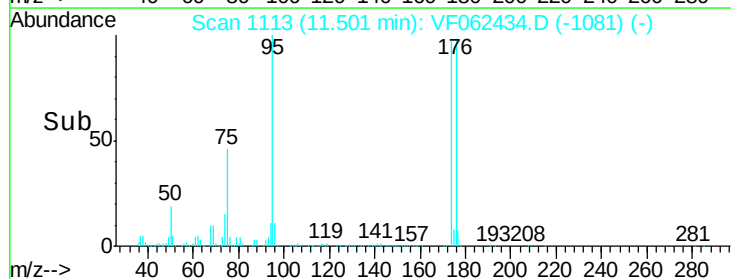
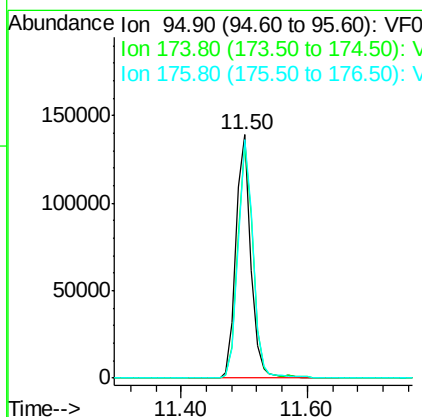
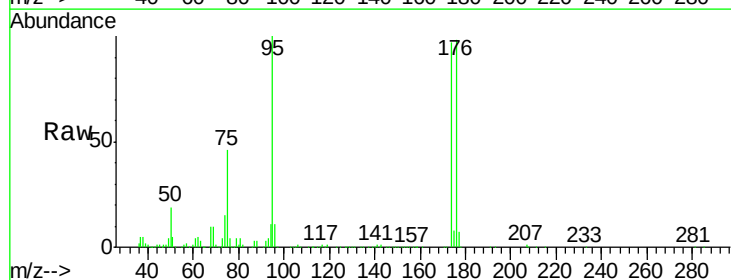
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0510SBL02

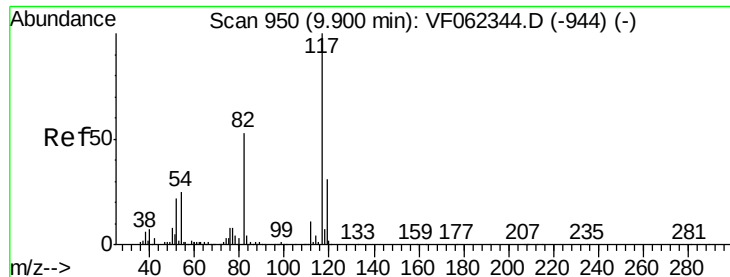
Tgt Ion: 98 Resp: 447897  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.3 79.9



#62  
4-Bromofluorobenzene  
Concen: 57.694 ug/l  
RT: 11.50 min Scan# 1113  
Delta R.T. 0.01 min  
Lab File: VF062434.D  
Acq: 10 May 2019 22:35

Tgt Ion: 95 Resp: 224575  
Ion Ratio Lower Upper  
95 100  
174 98.4 0.0 191.8  
176 98.7 0.0 193.2

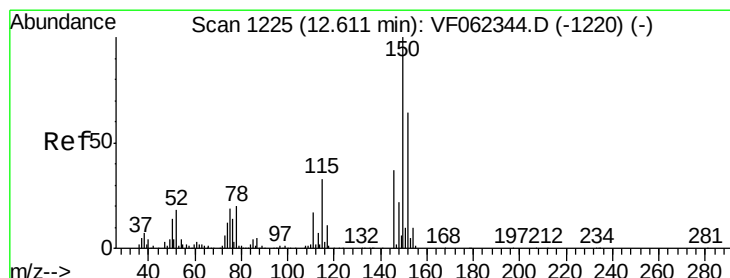
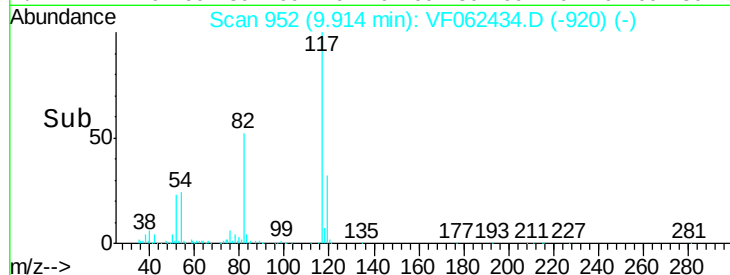
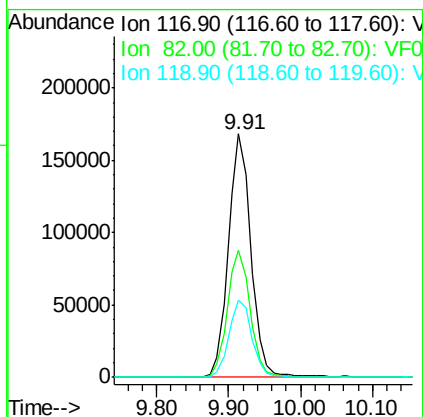
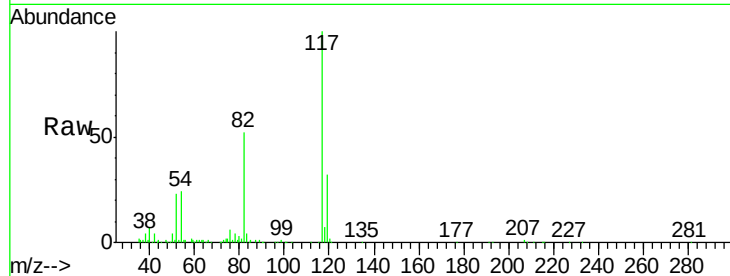




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 952  
Delta R.T. 0.01 min  
Lab File: VF062434.D  
Acq: 10 May 2019 22:35

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0510SBL02

Tgt Ion:117 Resp: 367261  
Ion Ratio Lower Upper  
117 100  
82 52.0 42.2 63.2  
119 31.7 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1226  
Delta R.T. 0.00 min  
Lab File: VF062434.D  
Acq: 10 May 2019 22:35

Tgt Ion:152 Resp: 252432  
Ion Ratio Lower Upper  
152 100  
115 52.8 26.4 79.2  
150 152.0 0.0 335.0

