

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081820\  
 Data File : VD066289.D  
 Acq On : 18 Aug 2020 20:20  
 Operator : VA/SY  
 Sample : L3700-07  
 Misc : 7.93G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S407-K-SO-1-1.5-081420-FD

Quant Time: Aug 19 07:47:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 173444   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 259288   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 192158   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 55079    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 94297    | 60.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 121.88% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 91194    | 55.52 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.04% |      |
| 50) Toluene-d8              | 10.34  | 98  | 257129   | 42.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.84%  |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 61885    | 28.32 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 56.64%  |      |

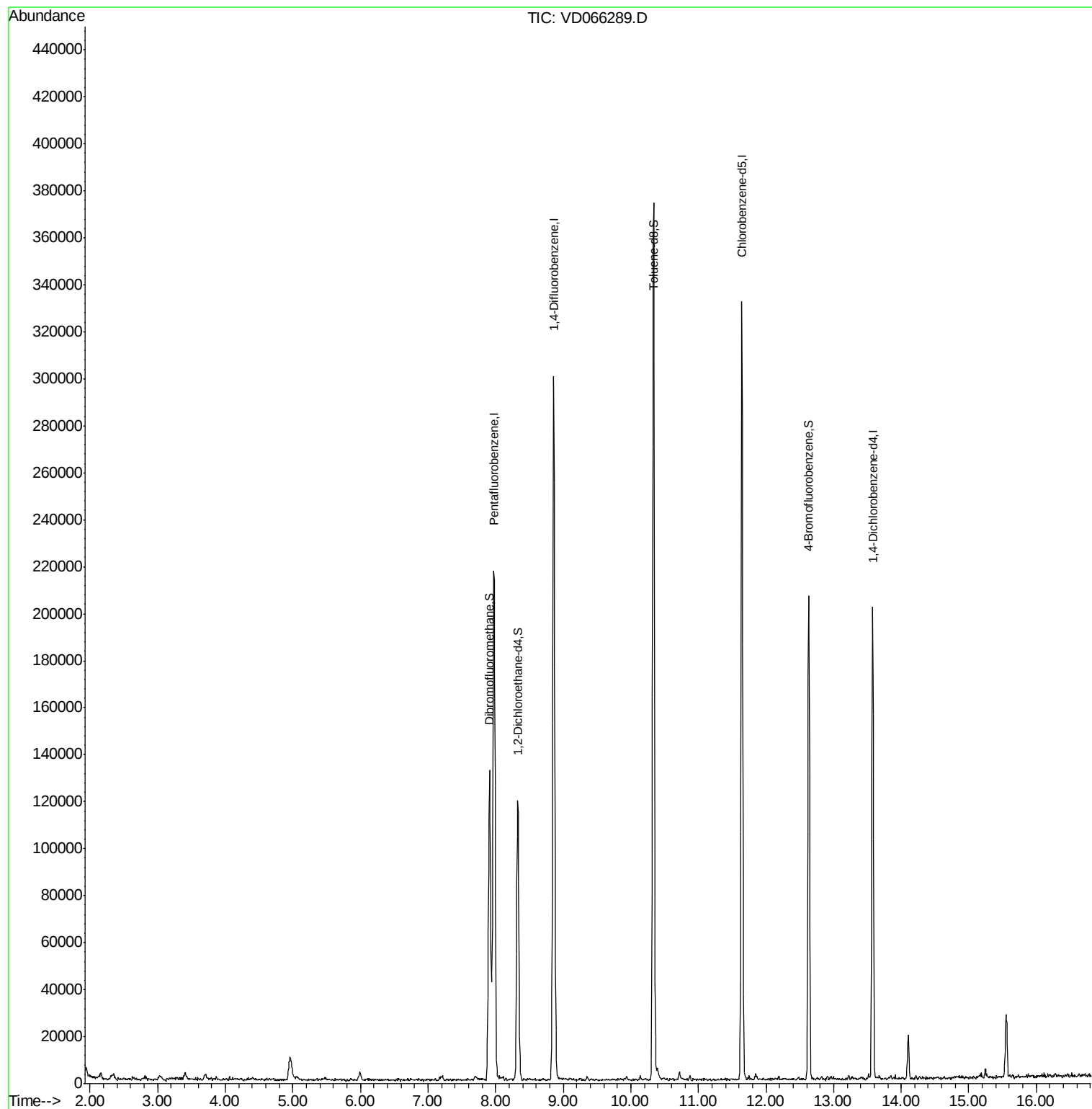
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

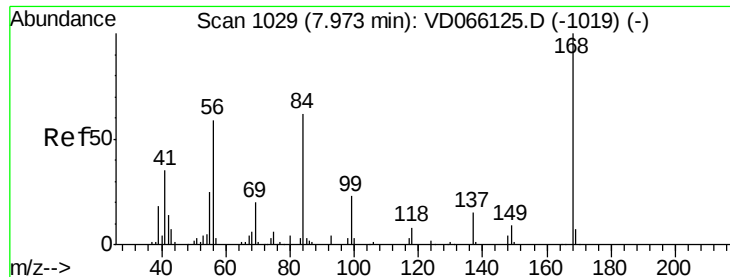
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:49:25 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066289.D

Acq: 18 Aug 2020 20:20

Instrument :

MSVOA\_D

ClientSampleId :

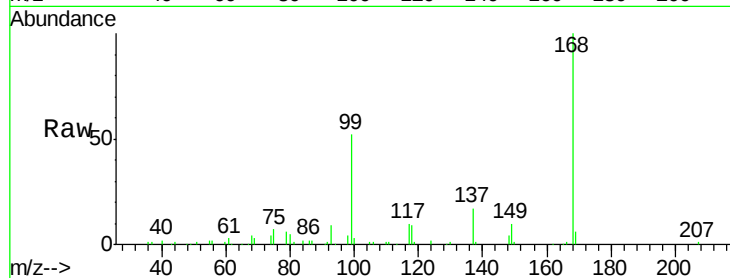
S407-K-SO-1-1.5-081420-FD

Tot Ion:168 Resp: 173444

Ion Ratio Lower Upper

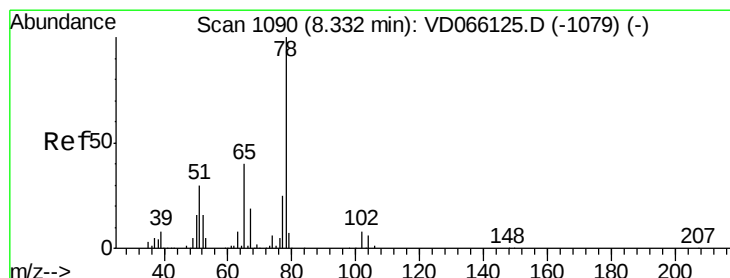
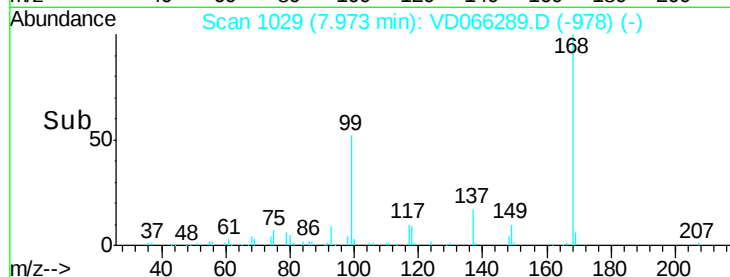
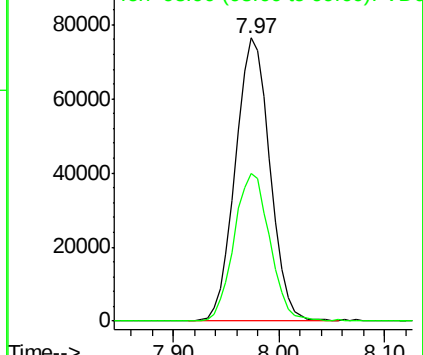
168 100

99 52.0 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 60.940 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066289.D

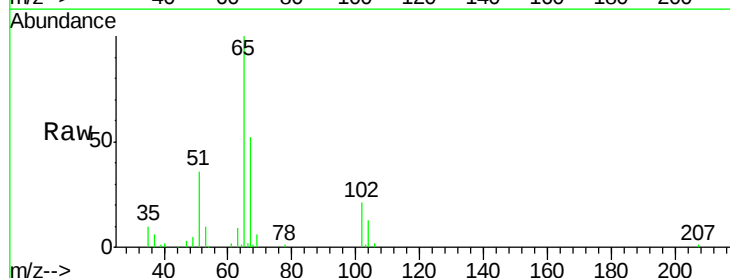
Acq: 18 Aug 2020 20:20

Tgt Ion: 65 Resp: 94297

Ion Ratio Lower Upper

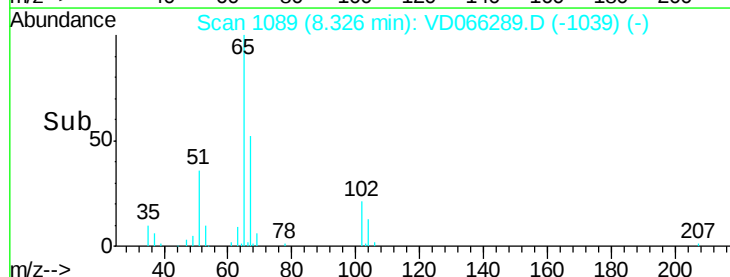
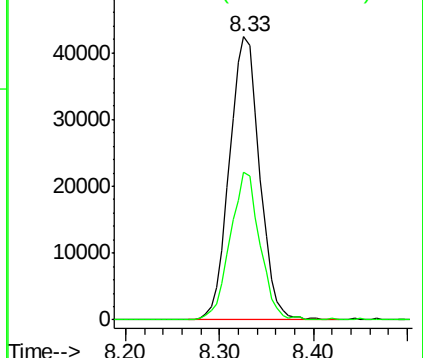
65 100

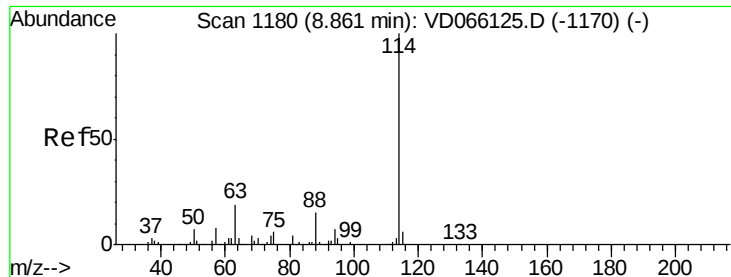
67 51.4 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

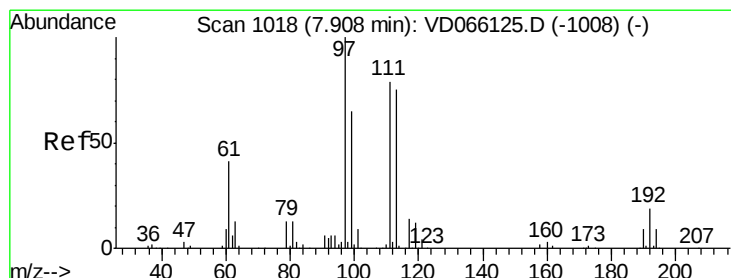
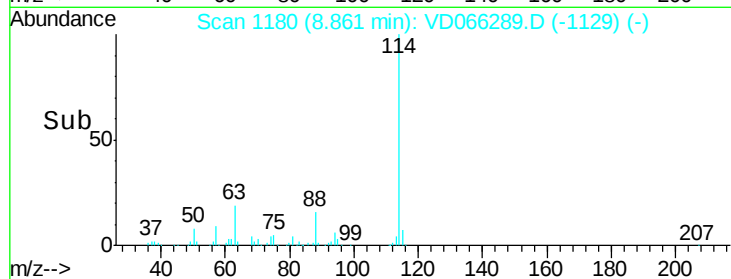
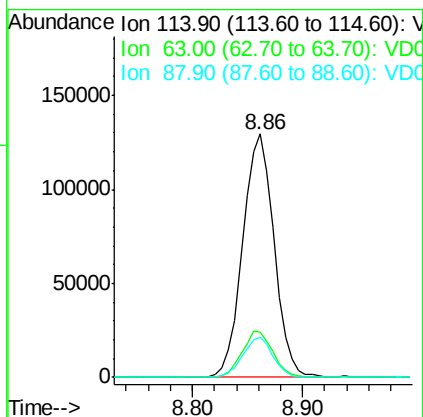
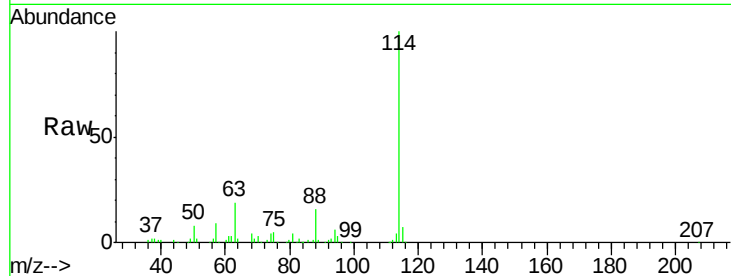




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066289.D  
 Acq: 18 Aug 2020 20:20

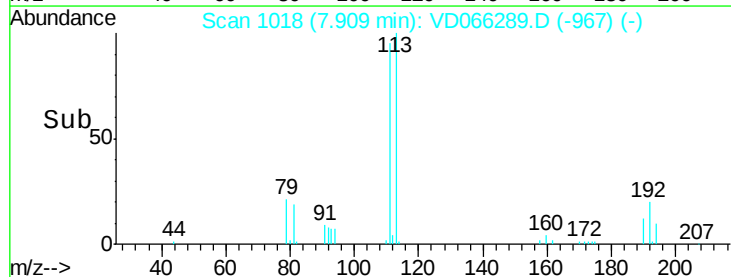
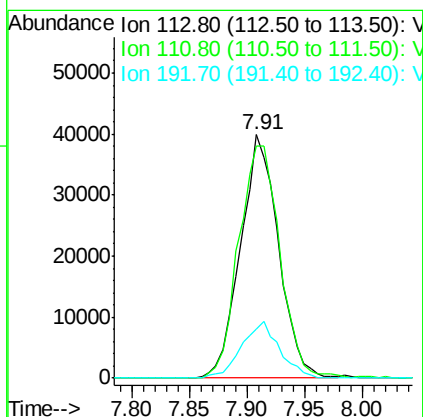
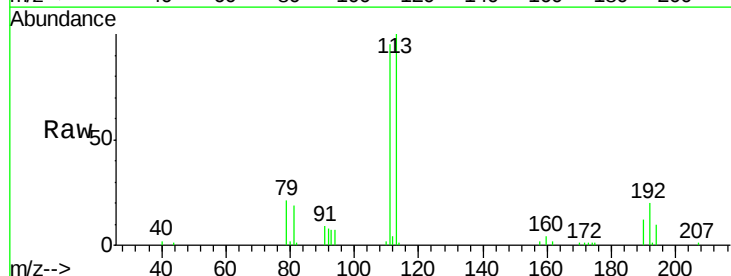
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S407-K-SO-1-1.5-081420-FD

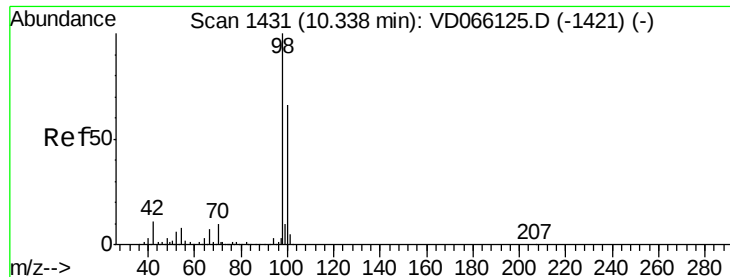
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.8  | 0.0   | 38.6  |
| 88      | 16.4  | 0.0   | 30.0  |



#35  
 Dibromofluoromethane  
 Concen: 55.519 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: VD066289.D  
 Acq: 18 Aug 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 80.7  | 121.1 |
| 192     | 23.2  | 18.4  | 27.6  |





#50

Toluene-d8

Concen: 42.420 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066289.D

Acq: 18 Aug 2020 20:20

Instrument :

MSVOA\_D

ClientSampleId :

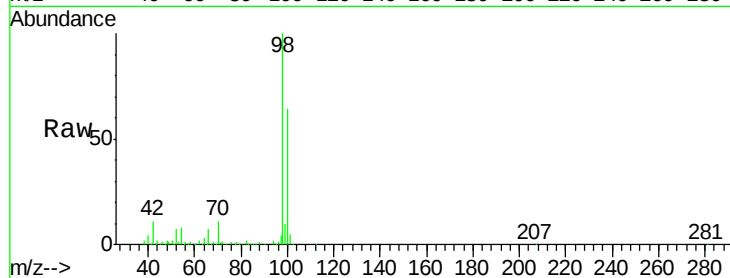
S407-K-SO-1-1.5-081420-FD

Tot Ion: 98 Resp: 257129

Ion Ratio Lower Upper

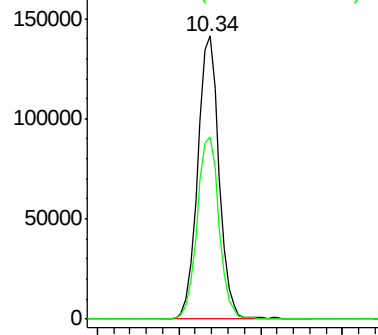
98 100

100 66.1 52.6 78.8

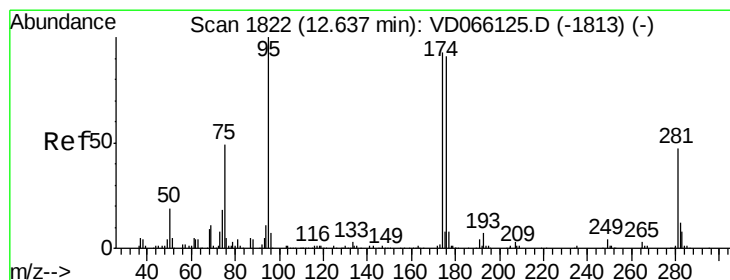
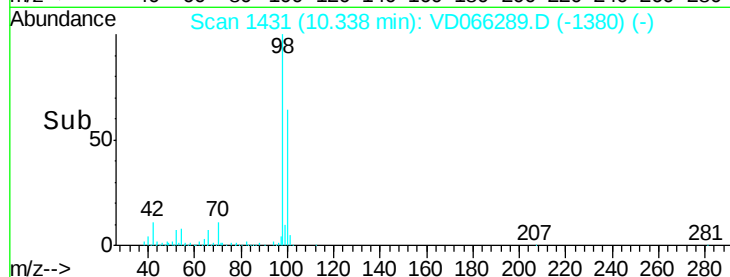


Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



Time-->



#62

4-Bromofluorobenzene

Concen: 28.324 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066289.D

Acq: 18 Aug 2020 20:20

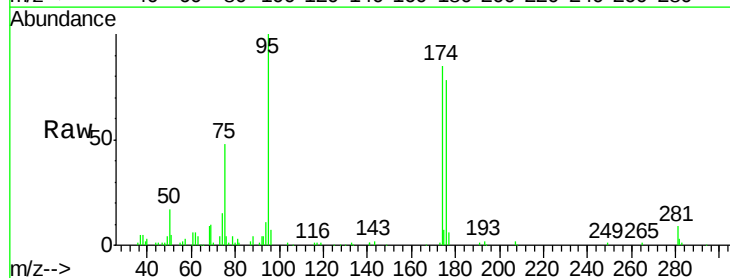
Tgt Ion: 95 Resp: 61885

Ion Ratio Lower Upper

95 100

174 97.4 0.0 180.8

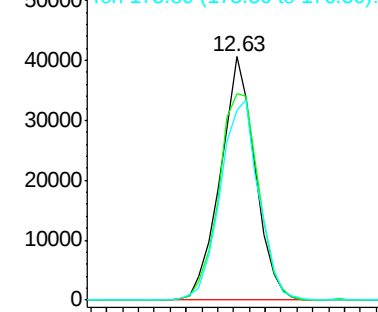
176 90.6 0.0 181.2



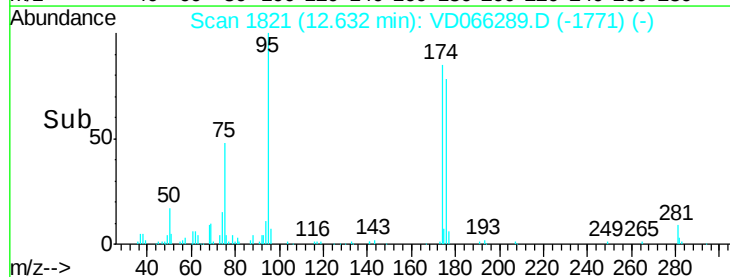
Abundance Ion 94.90 (94.60 to 95.60): VDC

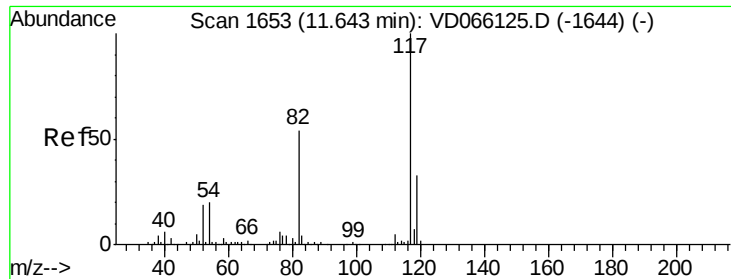
Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC



Time-->

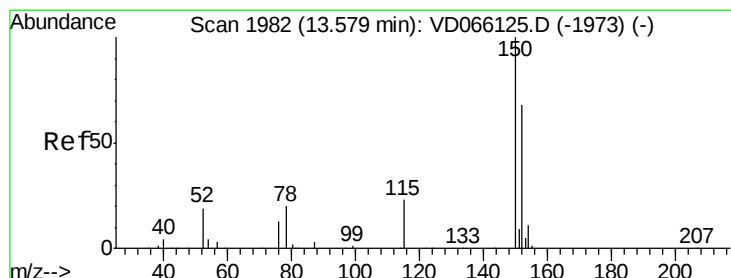
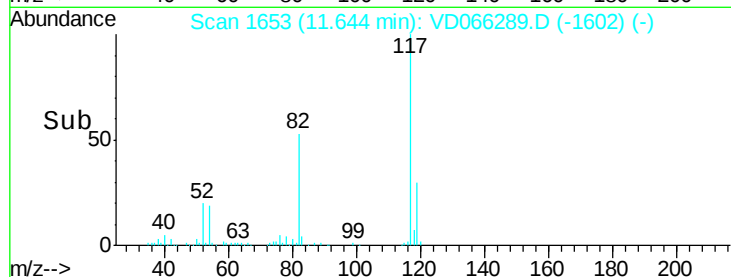
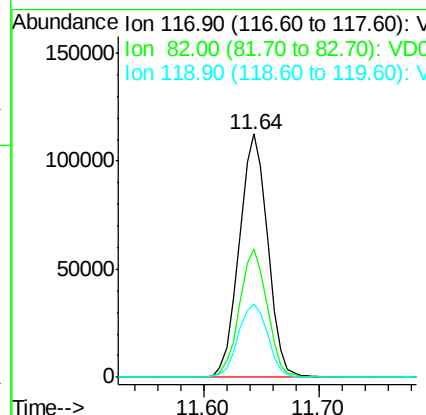
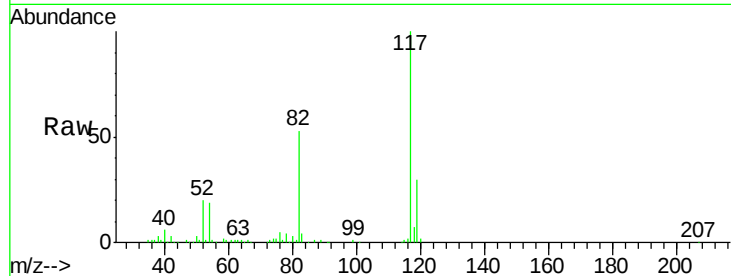




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066289.D  
Acq: 18 Aug 2020 20:20

Instrument :  
MSVOA\_D  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.7  | 43.0  | 64.4  |
| 119     | 30.2  | 26.1  | 39.1  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066289.D  
Acq: 18 Aug 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.0  | 28.0  | 83.9  |
| 150     | 158.8 | 0.0   | 346.4 |

