

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072320\  
 Data File : VD066027.D  
 Acq On : 23 Jul 2020 16:30  
 Operator : VA/SY  
 Sample : L3381-13  
 Misc : 7.85G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 339-GRID-B3-B4

Quant Time: Jul 24 04:19:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 318237   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 510539   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 543550   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 290378   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 131009   | 50.59 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.18% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 153121   | 49.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.90%  |      |
| 50) Toluene-d8              | 10.34  | 98  | 618481   | 53.62 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.24% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 249520   | 62.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 124.76% |      |

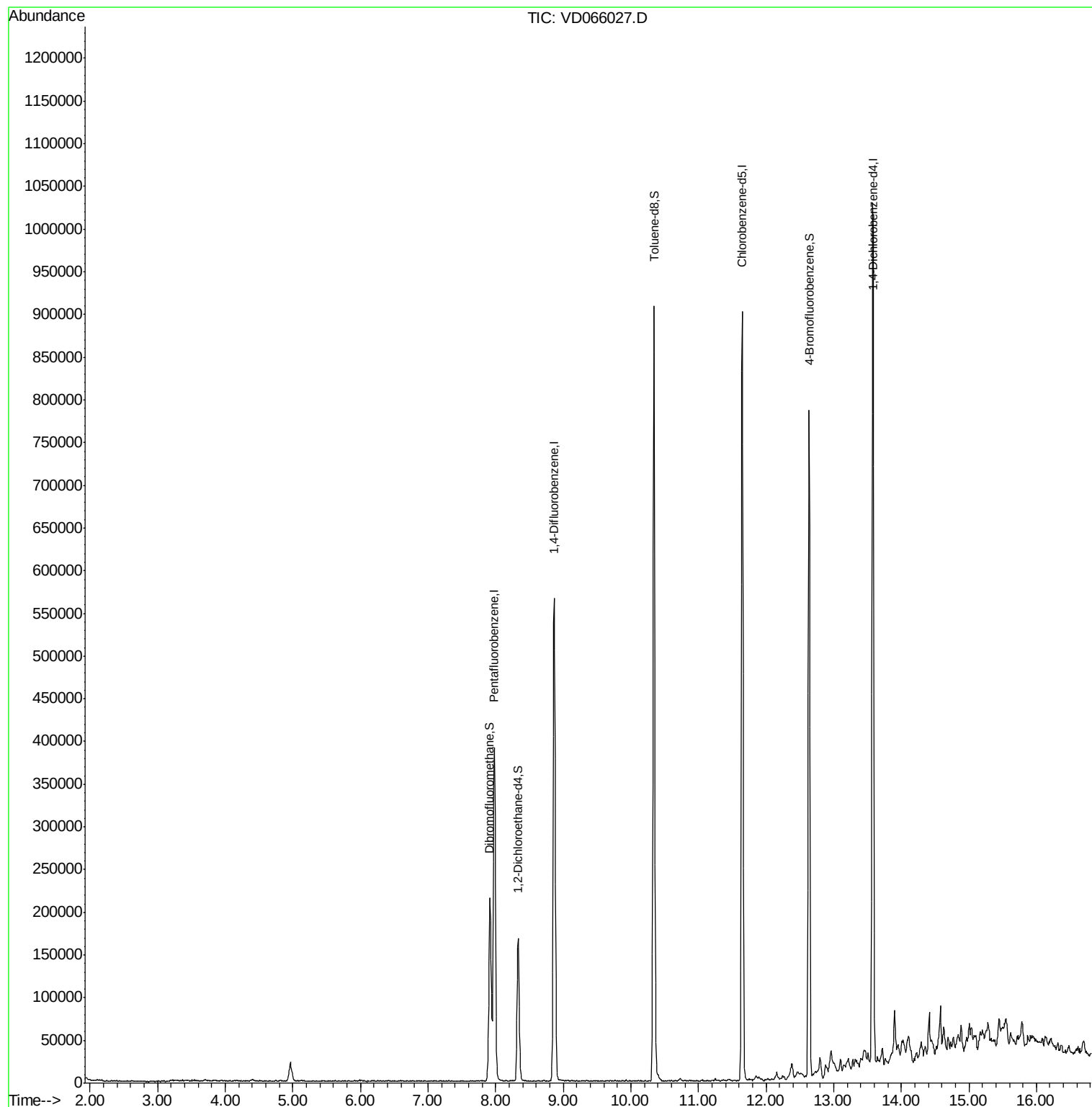
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

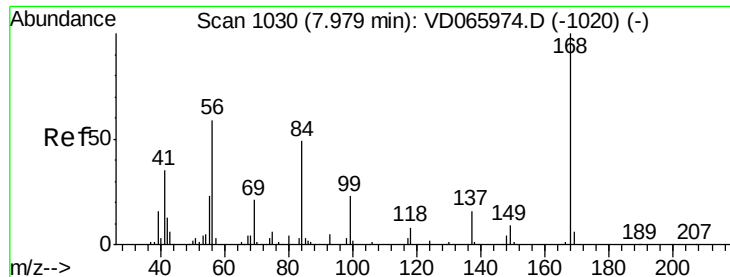
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :  
339-GRID-B3-B4

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 21 12:34:13 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD066027.D

Acq: 23 Jul 2020 16:30

Instrument :

MSVOA\_D

ClientSampleId :

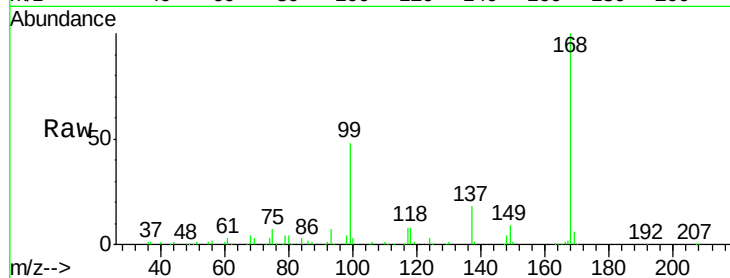
339-GRID-B3-B4

Tot Ion:168 Resp: 318237

Ion Ratio Lower Upper

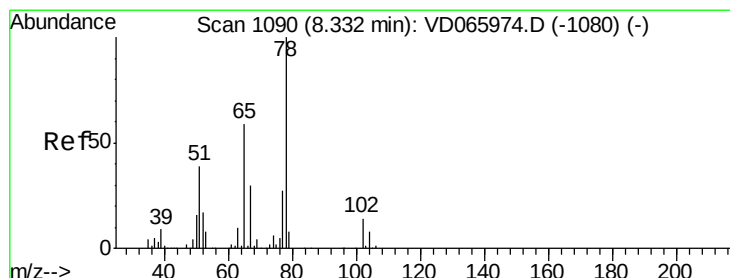
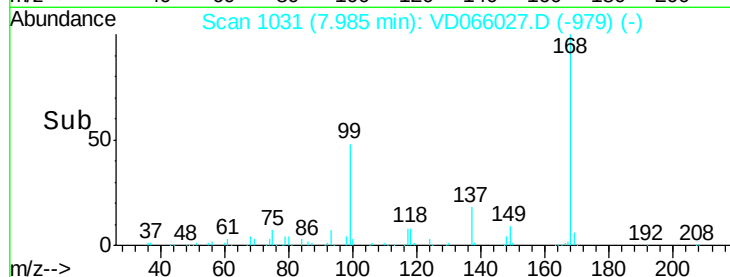
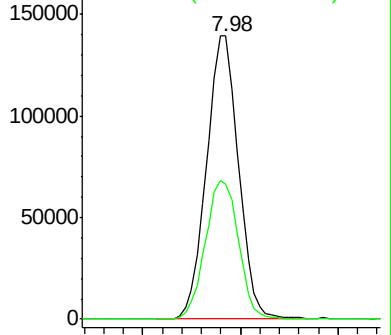
168 100

99 47.7 40.8 61.2



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: 50.593 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD066027.D

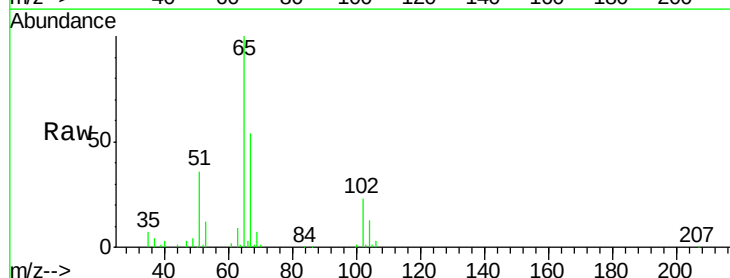
Acq: 23 Jul 2020 16:30

Tgt Ion: 65 Resp: 131009

Ion Ratio Lower Upper

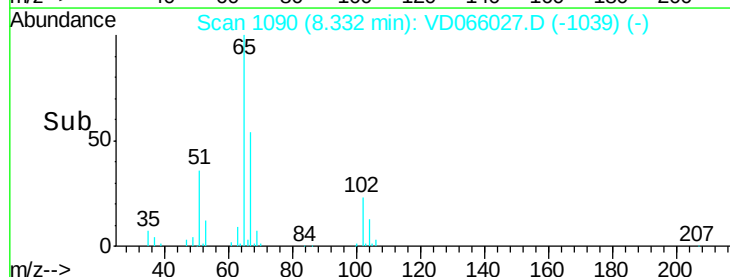
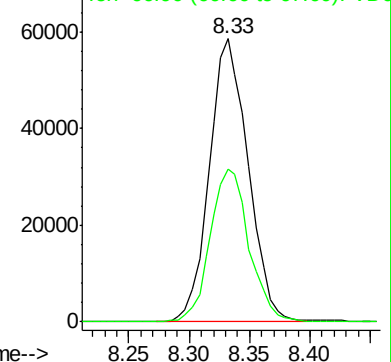
65 100

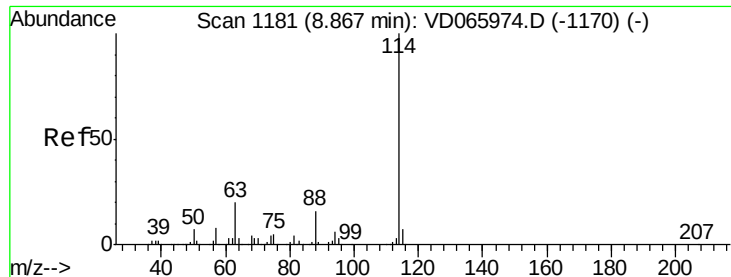
67 54.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

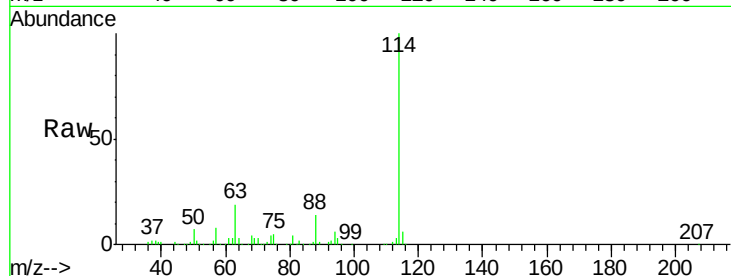




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD066027.D  
 Acq: 23 Jul 2020 16:30

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 339-GRID-B3-B4

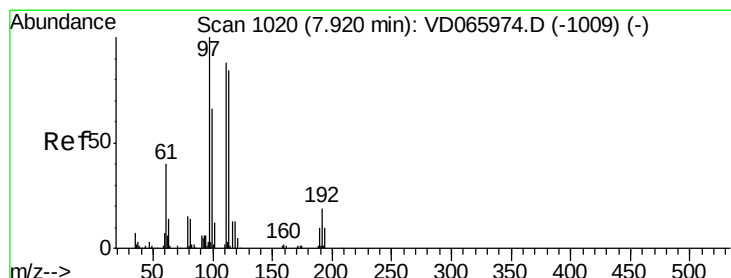
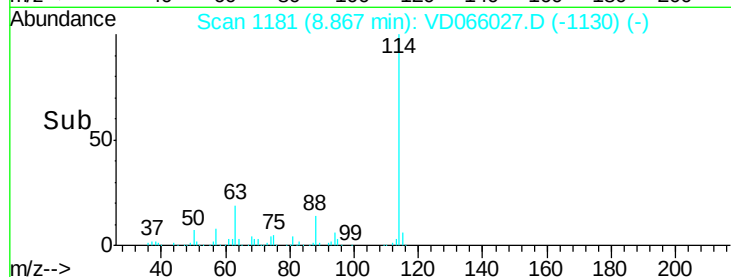
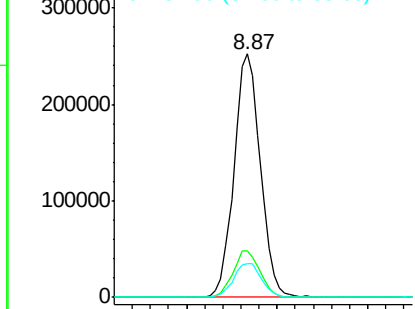
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.0  | 0.0   | 39.6  |
| 88      | 13.6  | 0.0   | 31.2  |



Abundance Ion 113.90 (113.60 to 114.60): V

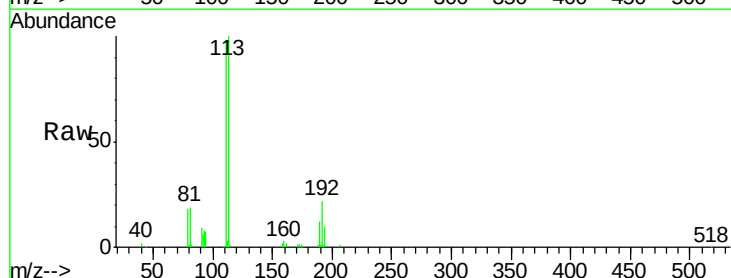
Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35  
 Dibromofluoromethane  
 Concen: 49.448 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: VD066027.D  
 Acq: 23 Jul 2020 16:30

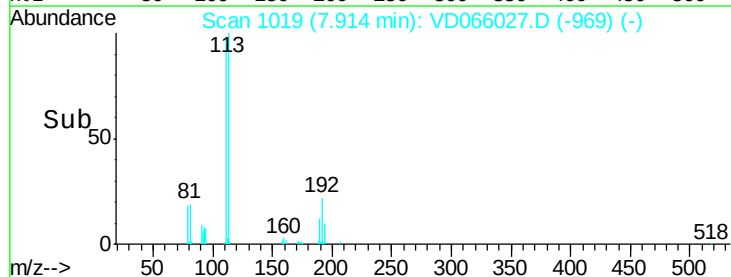
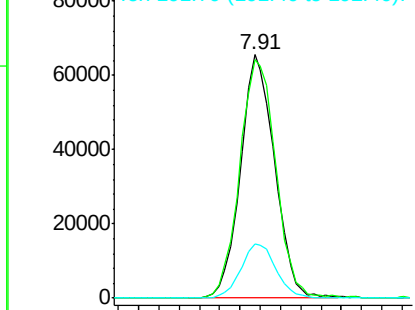
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.9 | 83.2  | 124.8 |
| 192     | 23.0  | 18.7  | 28.1  |

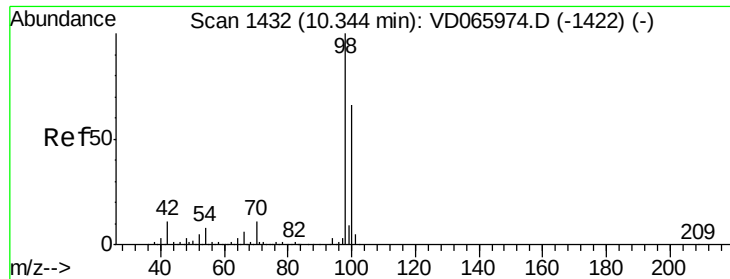


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

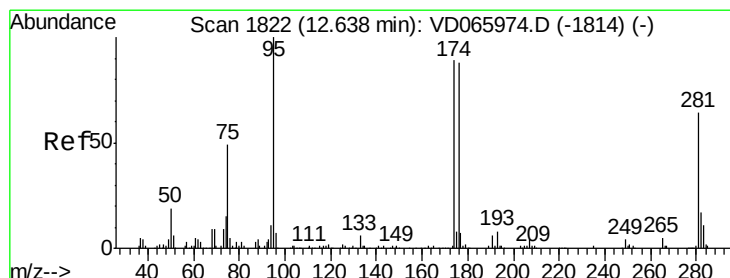
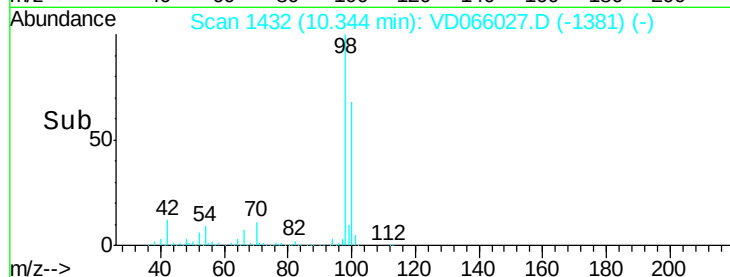
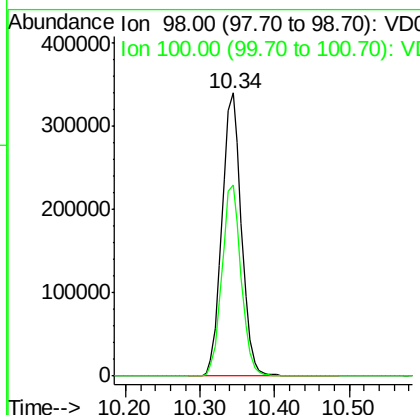
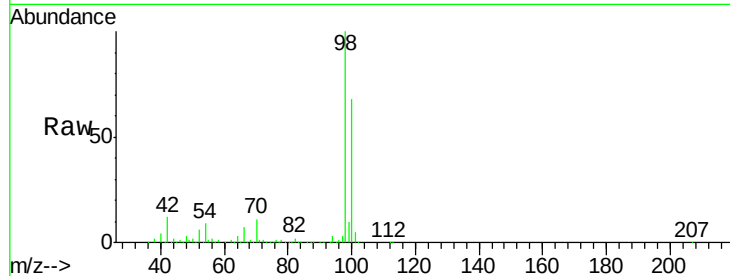




#50  
Toluene-d8  
Concen: 53.615 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD066027.D  
Acq: 23 Jul 2020 16:30

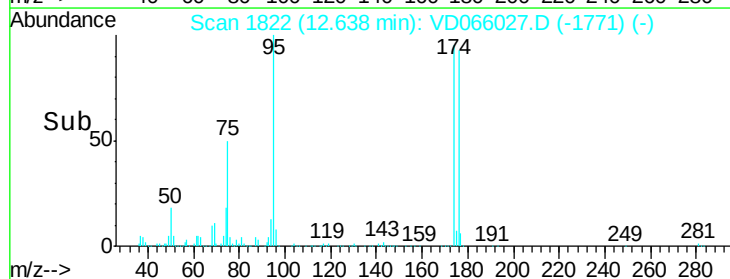
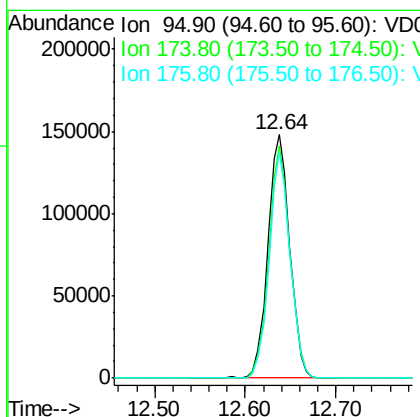
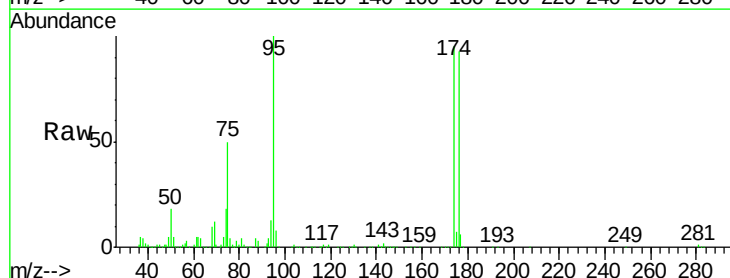
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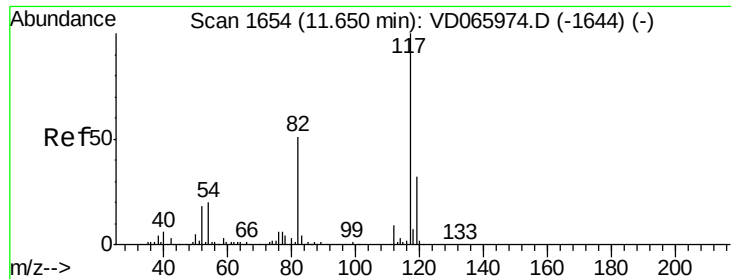
Tot Ion: 98 Resp: 618481  
Ion Ratio Lower Upper  
98 100  
100 66.6 52.7 79.1



#62  
4-Bromofluorobenzene  
Concen: 62.383 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD066027.D  
Acq: 23 Jul 2020 16:30

Tgt Ion: 95 Resp: 249520  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 178.8  
176 88.4 0.0 172.6

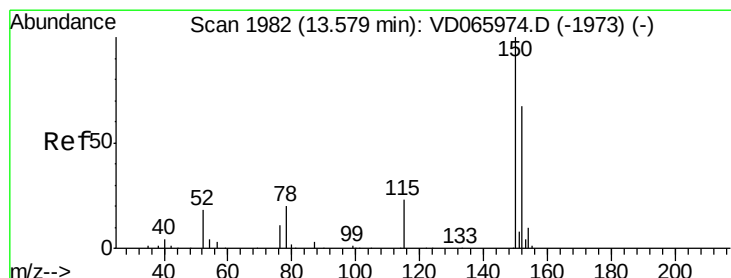
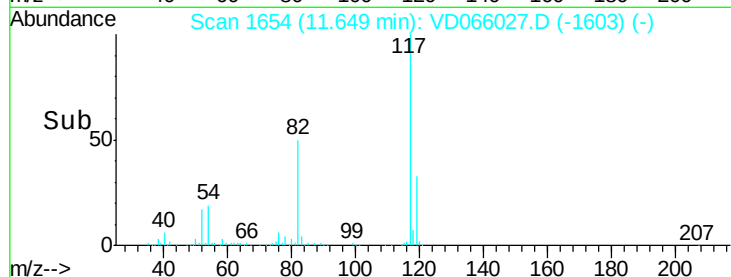
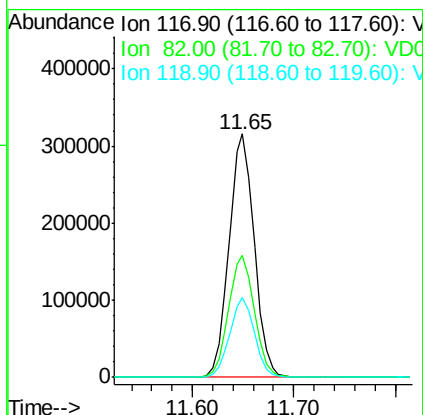
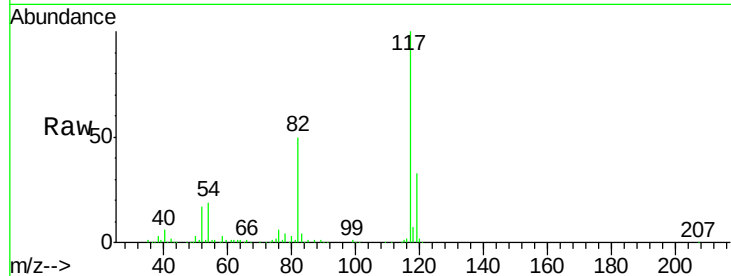




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD066027.D  
Acq: 23 Jul 2020 16:30

Instrument :  
MSVOA\_D  
ClientSampleId :  
339-GRID-B3-B4

Tot Ion:117 Resp: 543550  
Ion Ratio Lower Upper  
117 100  
82 50.2 41.1 61.7  
119 32.9 25.9 38.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD066027.D  
Acq: 23 Jul 2020 16:30

Tgt Ion:152 Resp: 290378  
Ion Ratio Lower Upper  
152 100  
115 54.8 27.9 83.7  
150 155.7 0.0 348.2

