

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020720\  
 Data File : VD065109.D  
 Acq On : 07 Feb 2020 14:52  
 Operator : VA/SY  
 Sample : L1437-01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-CUTTINGS

Quant Time: Feb 08 00:40:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 476406   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 768127   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 766060   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.59 | 152  | 319432   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 231705   | 57.22 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 114.44% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 239672   | 55.92 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.84% |      |
| 50) Toluene-d8              | 10.34  | 98  | 924347   | 54.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.38% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 327923   | 60.67 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 121.34% |      |

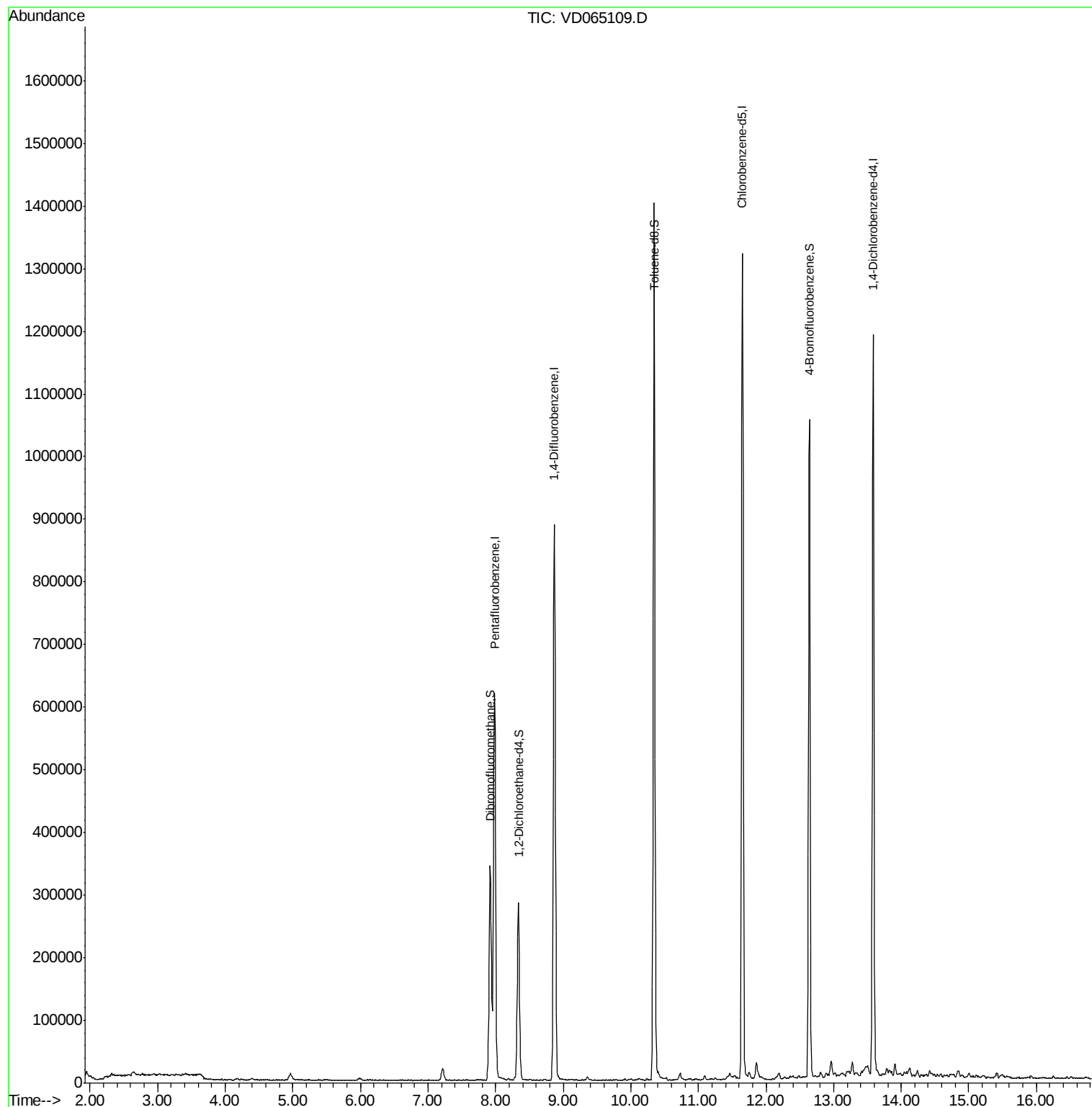
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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QLast Update : Wed Feb 05 15:53:00 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065109.D

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Instrument :

MSVOA\_D

ClientSampleId :

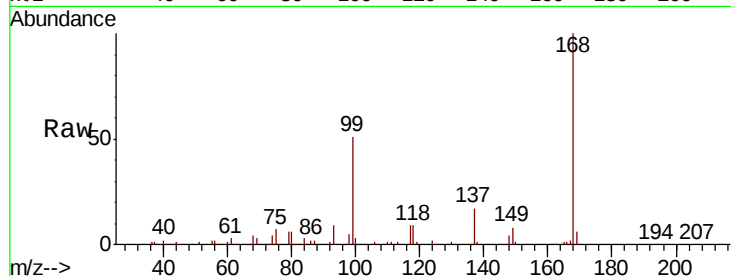
SOIL-CUTTINGS

Tot Ion:168 Resp: 476406

Ion Ratio Lower Upper

168 100

99 51.2 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

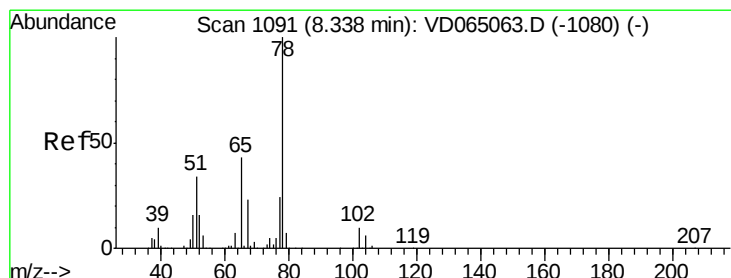
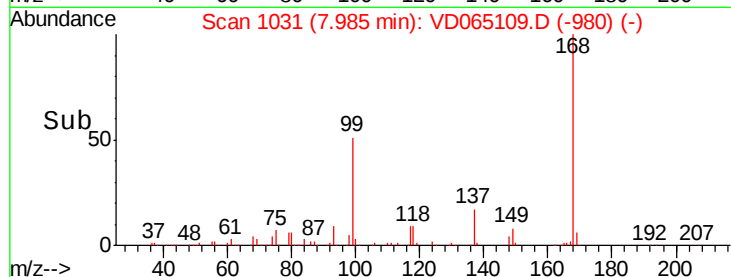
100000

50000

0

7.90 8.00 8.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 57.225 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065109.D

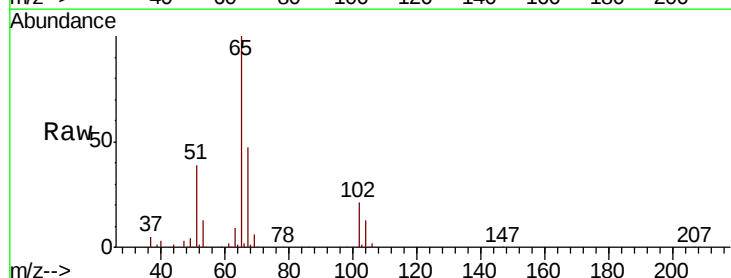
Acq: 07 Feb 2020 14:52

Tgt Ion: 65 Resp: 231705

Ion Ratio Lower Upper

65 100

67 52.0 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

120000

100000

80000

60000

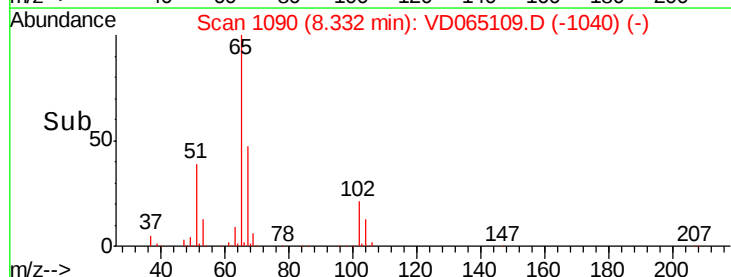
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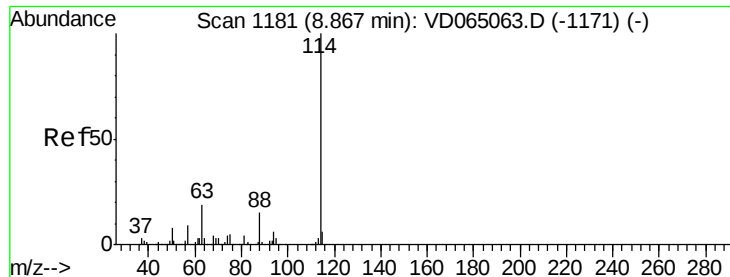
20000

0

8.30 8.40

Time-->

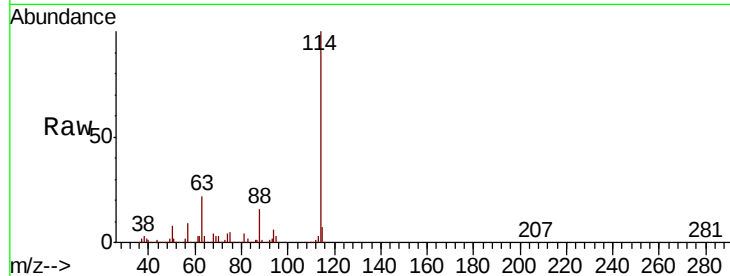




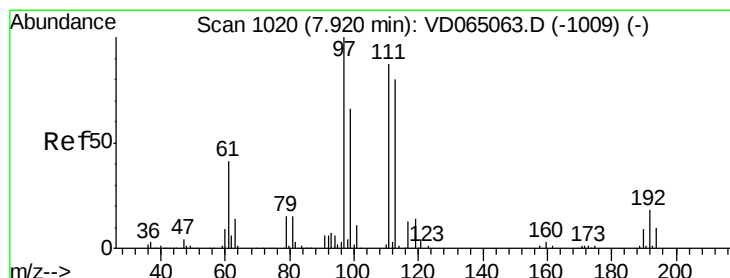
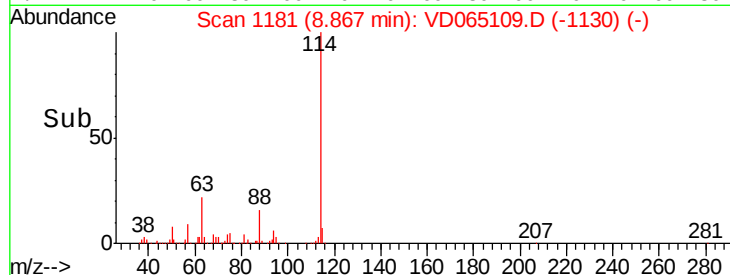
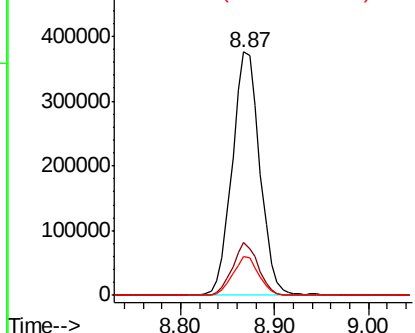
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD065109.D  
 Acq: 07 Feb 2020 14:52

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-CUTTINGS

Tot Ion:114 Resp: 768127  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 38.8  
 88 16.1 0.0 29.6

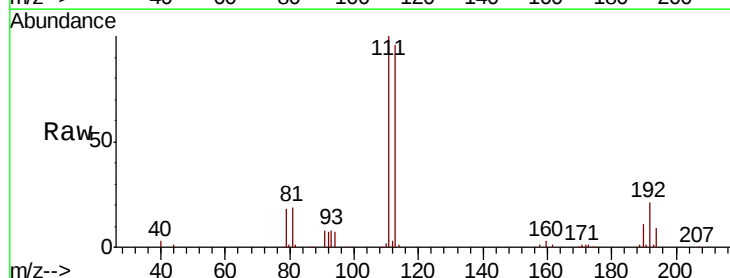


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

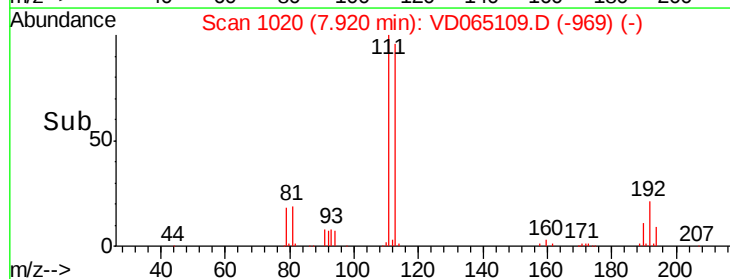
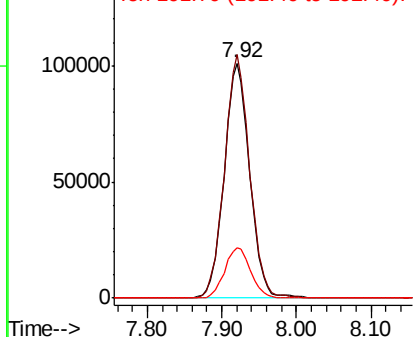


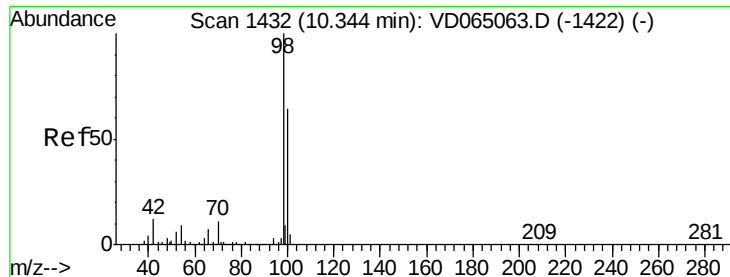
#35  
 Dibromofluoromethane  
 Concen: 55.924 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065109.D  
 Acq: 07 Feb 2020 14:52

Tgt Ion:113 Resp: 239672  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 83.1 124.7  
 192 21.8 18.1 27.1



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

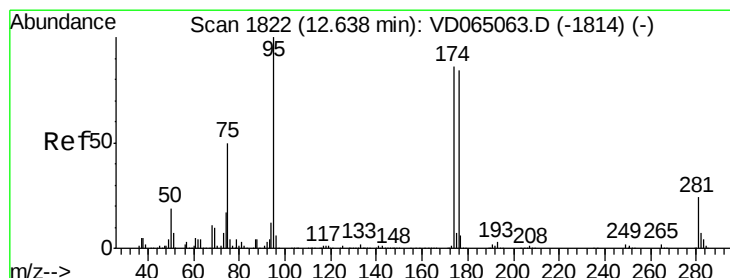
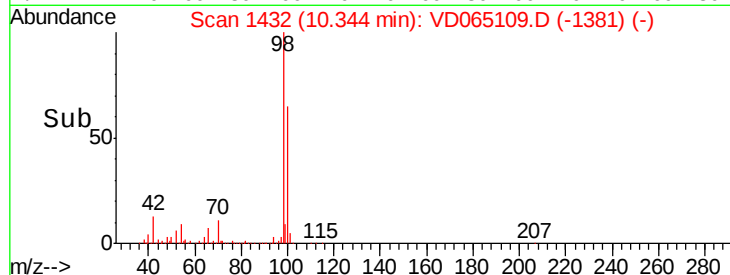
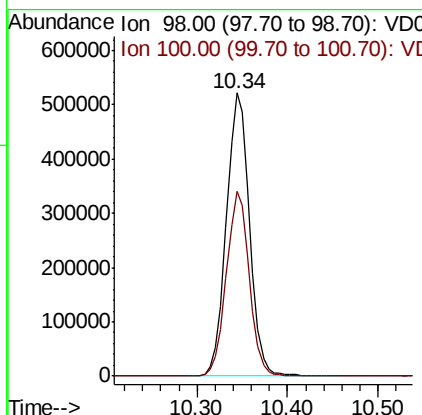
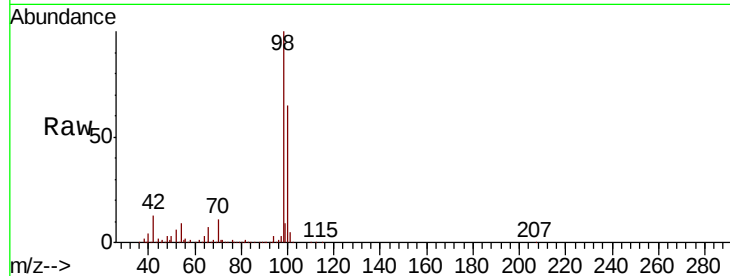




#50  
Toluene-d8  
Concen: 54.188 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065109.D  
Acq: 07 Feb 2020 14:52

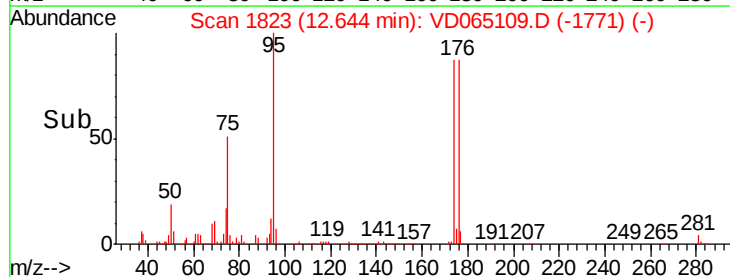
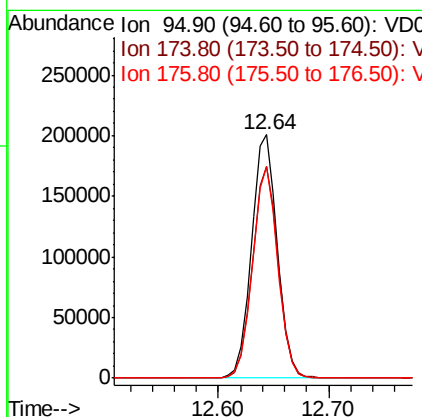
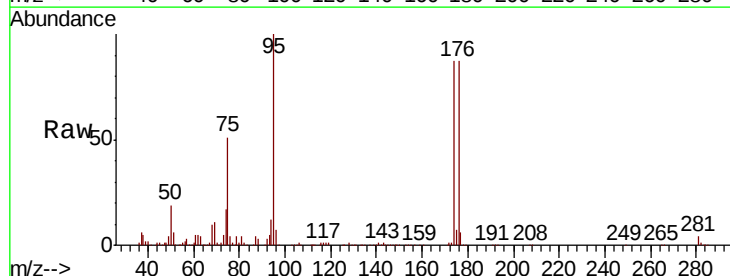
Instrument :  
MSVOA\_D  
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SOIL-CUTTINGS

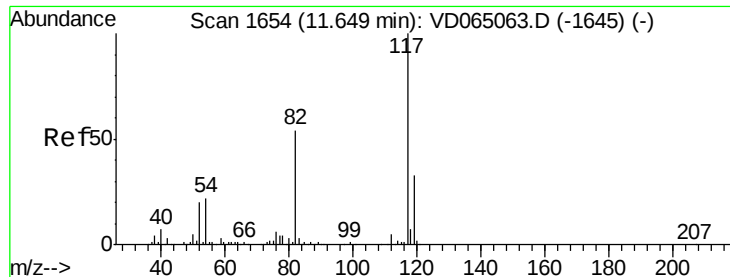
Tot Ion: 98 Resp: 924347  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 60.669 ug/l  
RT: 12.64 min Scan# 1823  
Delta R.T. 0.01 min  
Lab File: VD065109.D  
Acq: 07 Feb 2020 14:52

Tgt Ion: 95 Resp: 327923  
Ion Ratio Lower Upper  
95 100  
174 86.8 0.0 180.0  
176 84.8 0.0 173.2

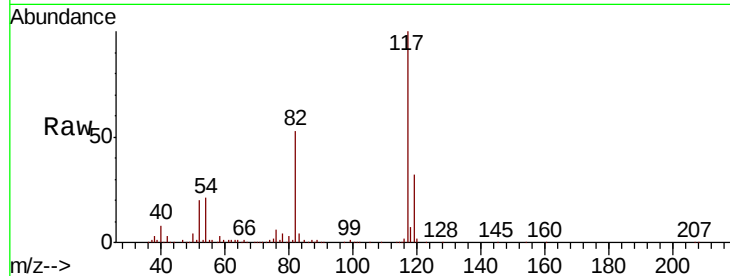




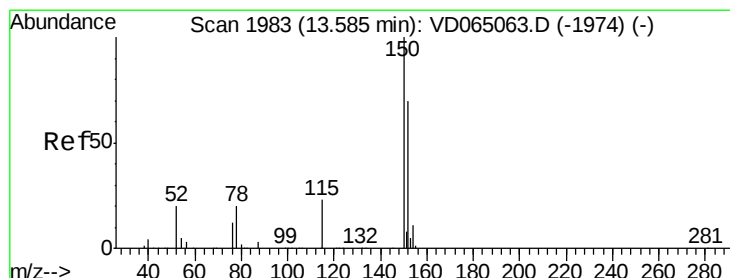
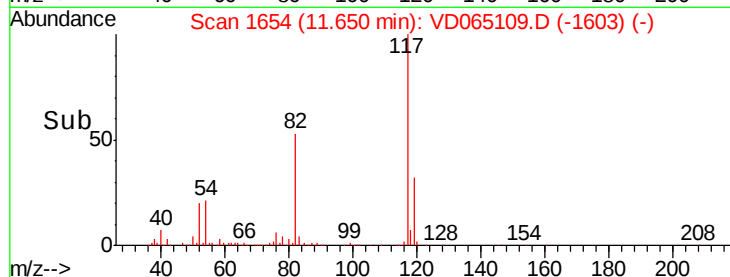
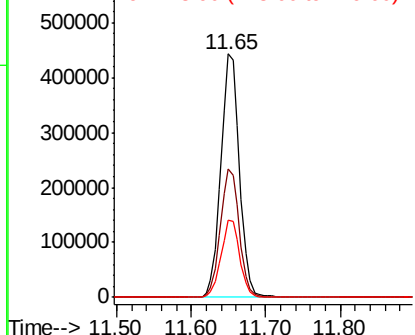
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065109.D  
Acq: 07 Feb 2020 14:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-CUTTINGS

Tot Ion:117 Resp: 766060  
Ion Ratio Lower Upper  
117 100  
82 52.6 43.1 64.7  
119 31.6 26.0 39.0

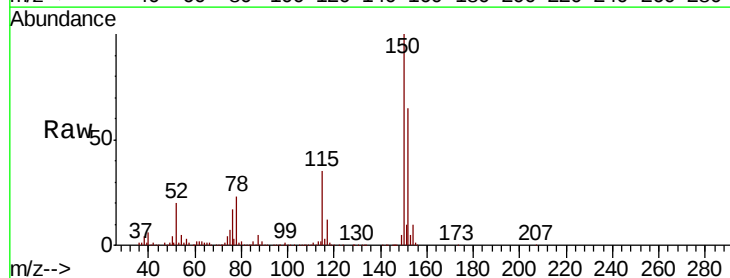


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.59 min Scan# 1984  
Delta R.T. 0.01 min  
Lab File: VD065109.D  
Acq: 07 Feb 2020 14:52

Tgt Ion:152 Resp: 319432  
Ion Ratio Lower Upper  
152 100  
115 56.1 27.5 82.4  
150 158.0 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

