

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031120\  
 Data File : VD065474.D  
 Acq On : 11 Mar 2020 11:31  
 Operator : VA/SY  
 Sample : VD0311SBL01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0311SBL01

Quant Time: Mar 11 16:30:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 392130   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 643002   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 578566   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 248143   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65  | 196578   | 58.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 116.88% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 208193   | 52.36 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.72% |      |
| 50) Toluene-d8              | 10.34  | 98  | 763138   | 50.03 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.06% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 212083   | 45.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.08%  |      |

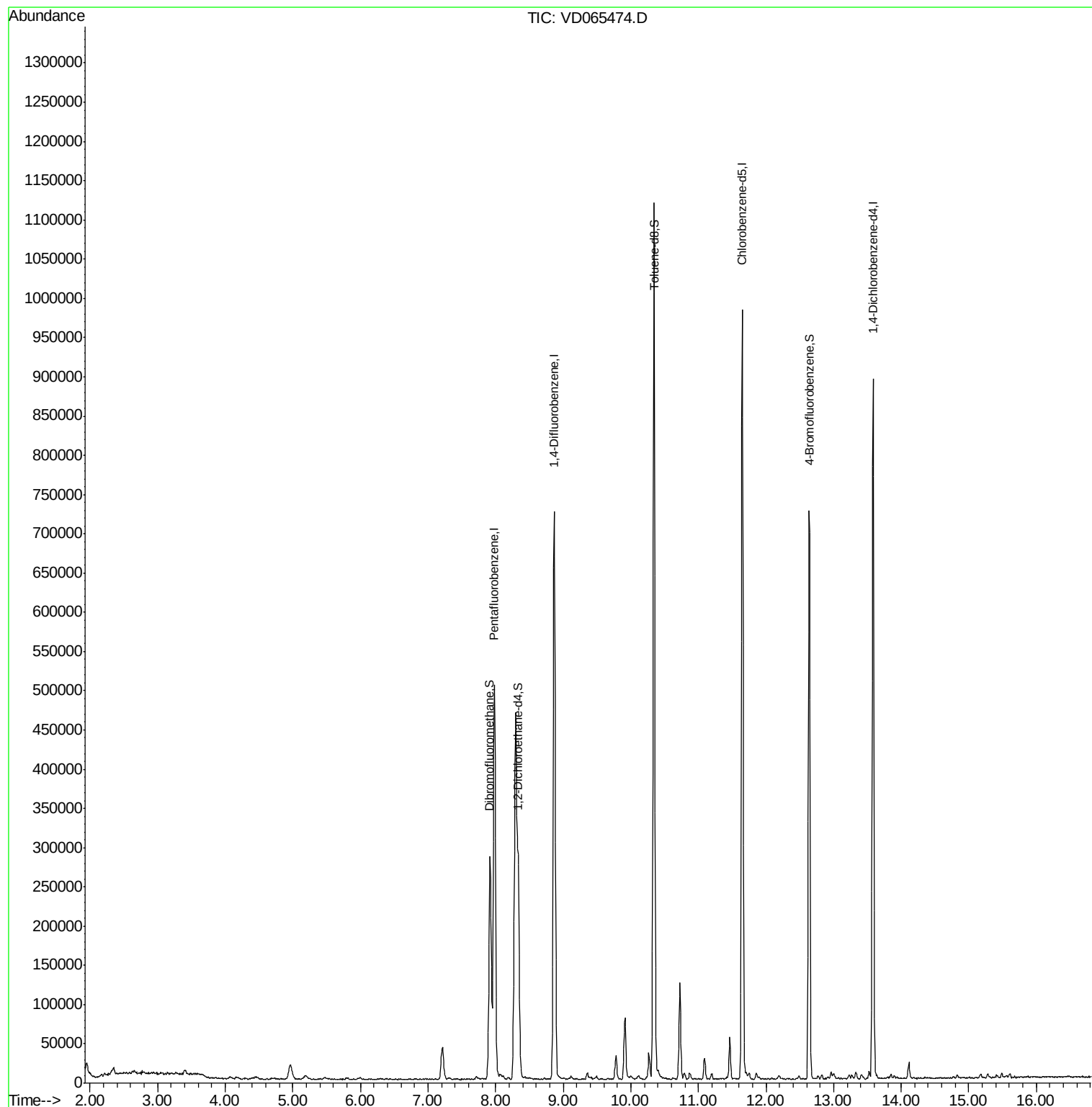
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

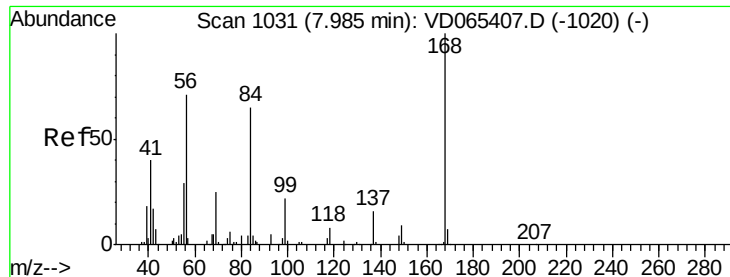
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 01:22:07 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065474.D

Acq: 11 Mar 2020 11:31

Instrument :

MSVOA\_D

ClientSampleId :

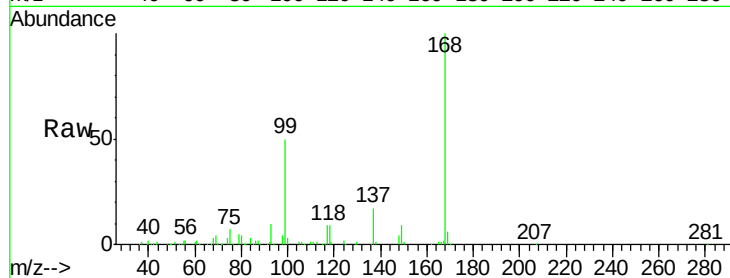
VD0311SBL01

Tot Ion:168 Resp: 392130

Ion Ratio Lower Upper

168 100

99 49.6 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

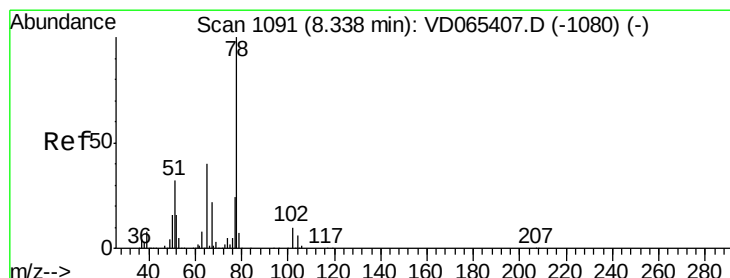
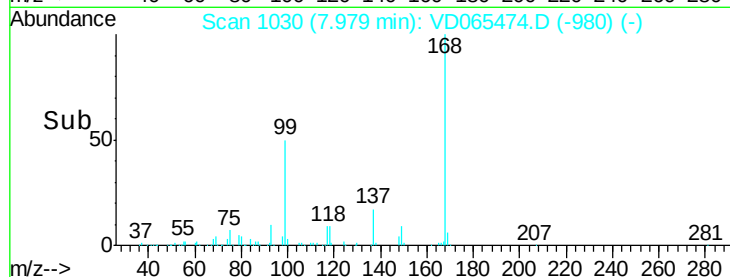
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 58.441 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065474.D

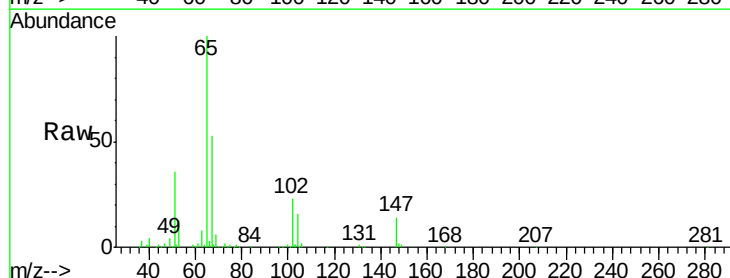
Acq: 11 Mar 2020 11:31

Tgt Ion: 65 Resp: 196578

Ion Ratio Lower Upper

65 100

67 54.1 0.0 108.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

100000

80000

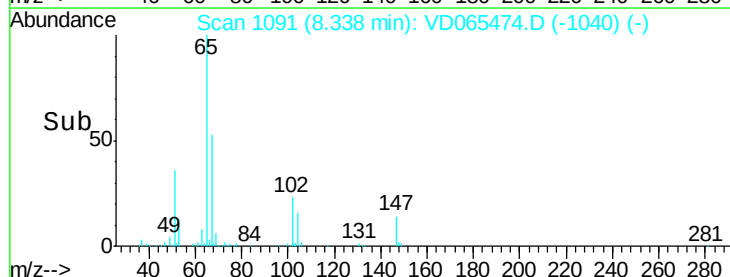
60000

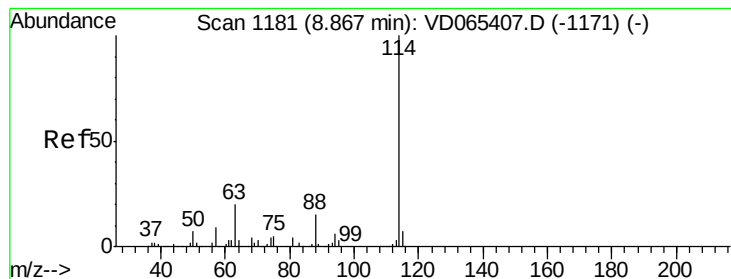
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065474.D

Acq: 11 Mar 2020 11:31

Instrument :

MSVOA\_D

ClientSampleId :

VD0311SBL01

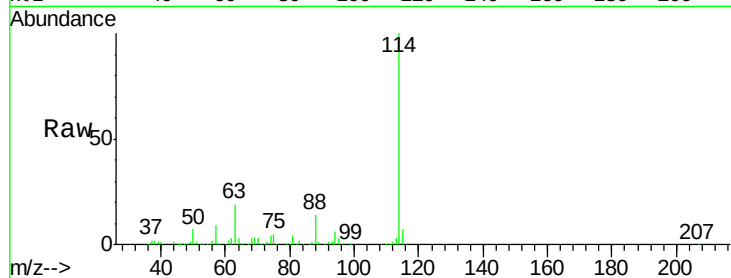
Tot Ion:114 Resp: 643002

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

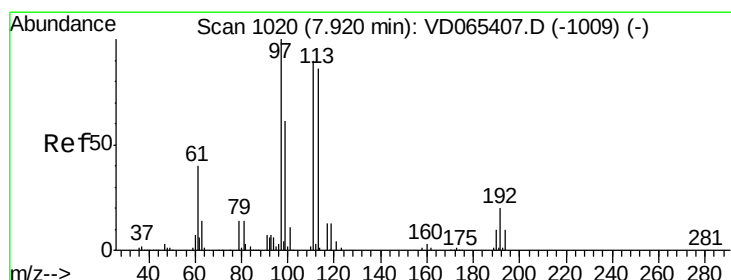
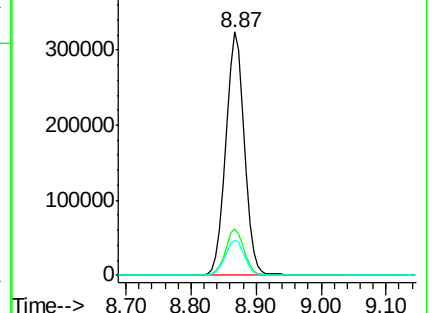
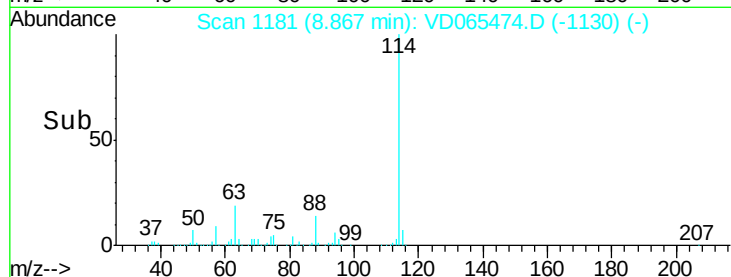
88 14.4 0.0 30.4



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: 52.358 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065474.D

Acq: 11 Mar 2020 11:31

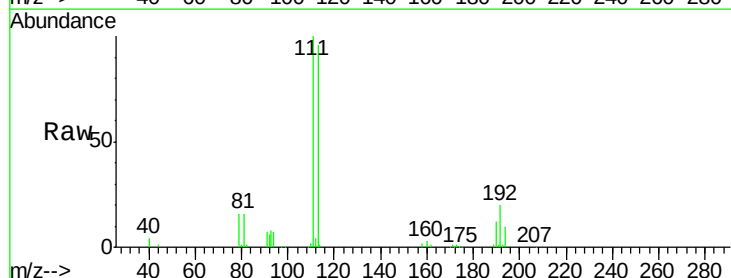
Tgt Ion:113 Resp: 208193

Ion Ratio Lower Upper

113 100

111 102.4 82.1 123.1

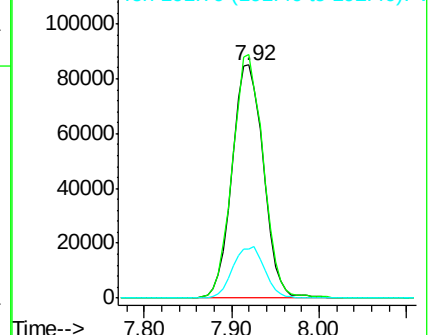
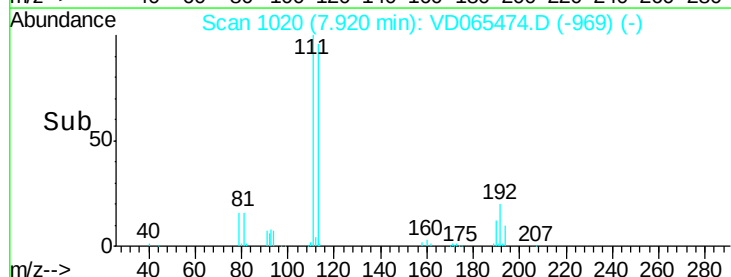
192 22.2 17.2 25.8

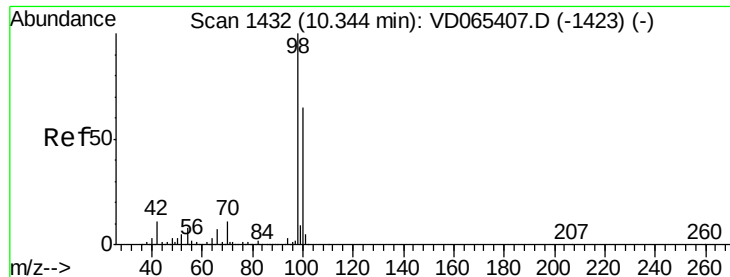


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.026 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065474.D

Acq: 11 Mar 2020 11:31

Instrument :

MSVOA\_D

ClientSampleId :

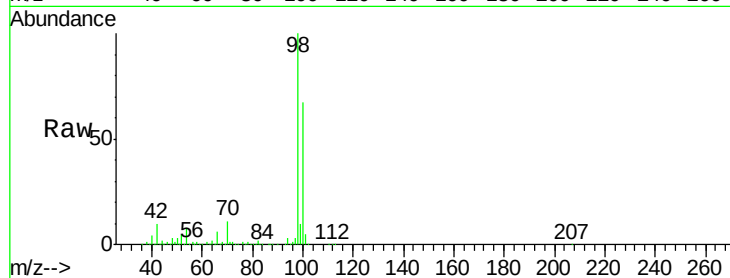
VD0311SBL01

Tot Ion: 98 Resp: 763138

Ion Ratio Lower Upper

98 100

100 65.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VD065407.D (-1423) (-)

Ion 100.00 (99.70 to 100.70): VD065407.D (-1423) (-)

10.34

400000

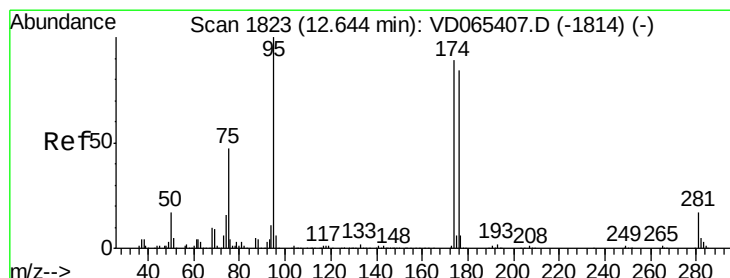
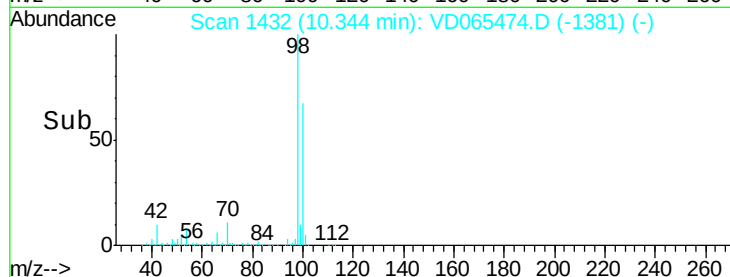
300000

200000

100000

0

Time--> 10.20 10.30 10.40 10.50



#62

4-Bromofluorobenzene

Concen: 45.035 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VD065474.D

Acq: 11 Mar 2020 11:31

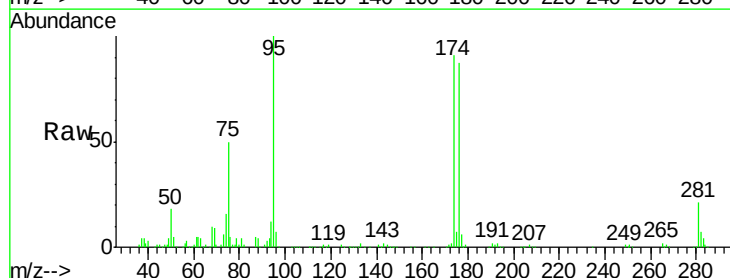
Tgt Ion: 95 Resp: 212083

Ion Ratio Lower Upper

95 100

174 92.5 0.0 176.8

176 88.0 0.0 171.4



Abundance Ion 94.90 (94.60 to 95.60): VD065407.D (-1814) (-)

Ion 173.80 (173.50 to 174.50): VD065407.D (-1814) (-)

Ion 175.80 (175.50 to 176.50): VD065407.D (-1814) (-)

12.64

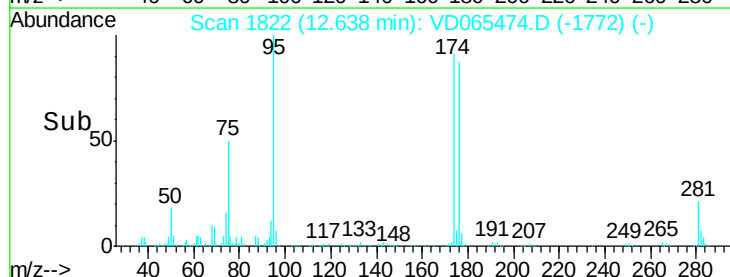
150000

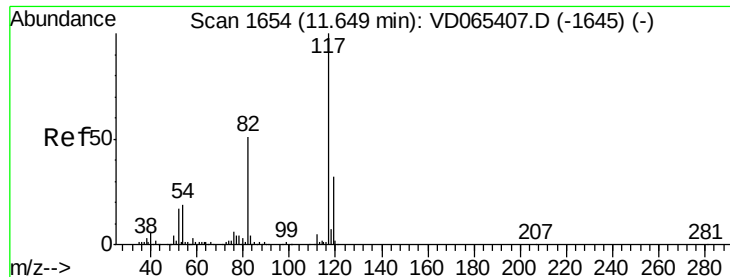
100000

50000

0

Time--> 12.60 12.70

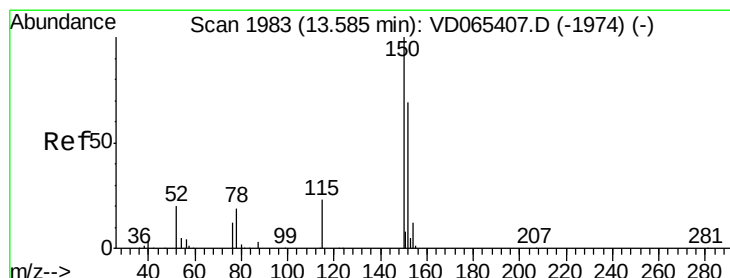
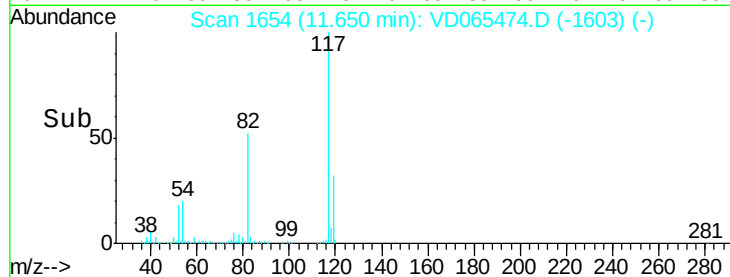
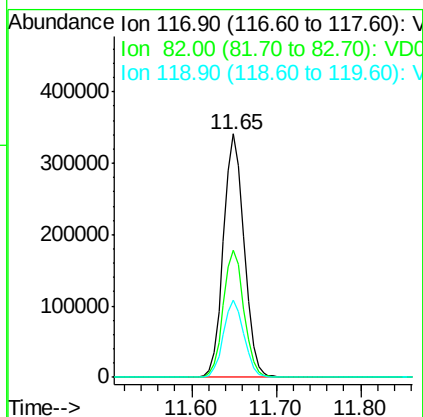
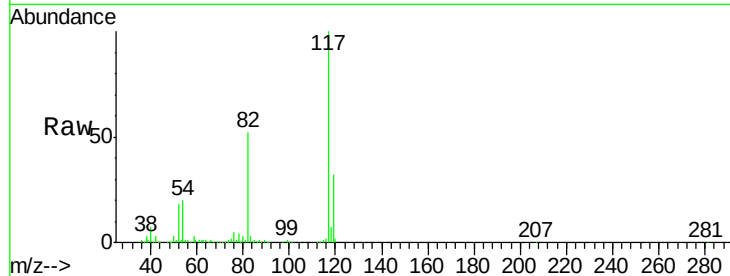




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065474.D  
Acq: 11 Mar 2020 11:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0311SBL01

Tot Ion:117 Resp: 578566  
Ion Ratio Lower Upper  
117 100  
82 52.2 40.6 60.8  
119 31.7 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065474.D  
Acq: 11 Mar 2020 11:31

Tgt Ion:152 Resp: 248143  
Ion Ratio Lower Upper  
152 100  
115 55.5 27.6 82.8  
150 158.7 0.0 345.0

