

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020720\  
 Data File : VD065119.D  
 Acq On : 07 Feb 2020 19:40  
 Operator : VA/SY  
 Sample : L1403-13  
 Misc : 7.92G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-13-12-12.5

Quant Time: Feb 08 00:58:26 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      | 7.98  | 168  | 77763    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 120015   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 134781   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 69641    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65  | 54240    | 82.07 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 164.14% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 44501    | 66.46 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 132.92% |      |
| 50) Toluene-d8              | 10.34  | 98  | 146954   | 55.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 110.28% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 56102    | 66.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 132.86% |      |

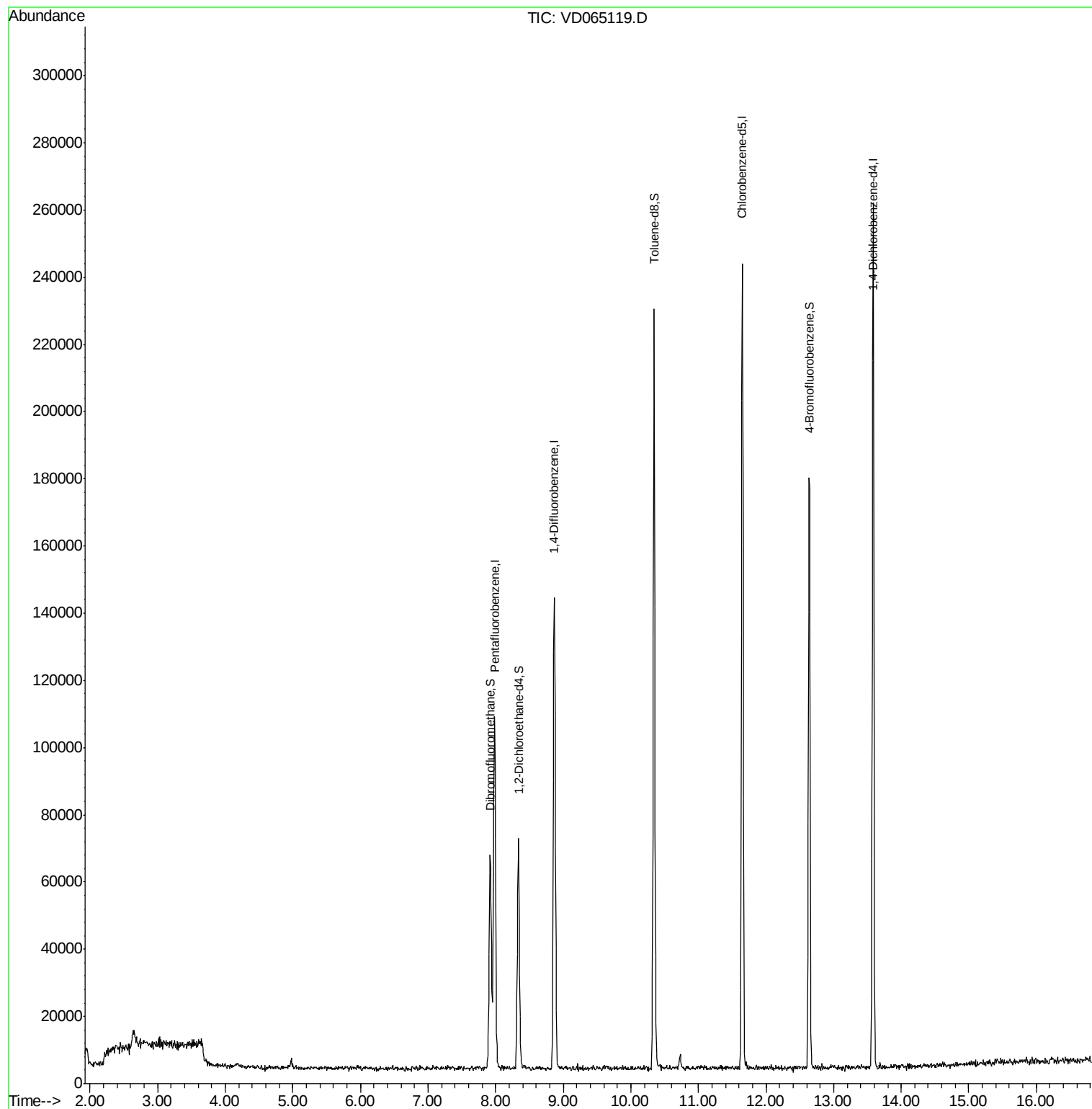
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

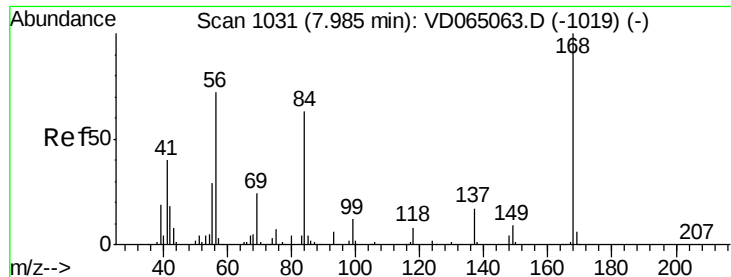
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD020720\  
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SB-13-12-12.5

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Quant Title : SW846 8260  
QLast Update : Wed Feb 05 15:53:00 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065119.D

Acq: 07 Feb 2020 19:40

Instrument :

MSVOA\_D

ClientSampleId :

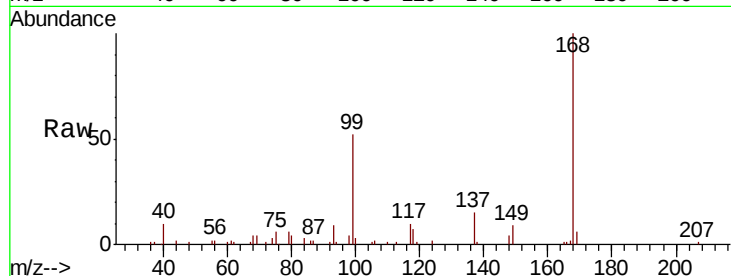
SB-13-12-12.5

Tot Ion:168 Resp: 77763

Ion Ratio Lower Upper

168 100

99 52.0 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

40000

30000

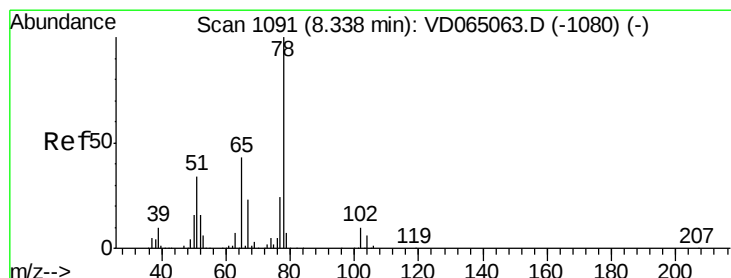
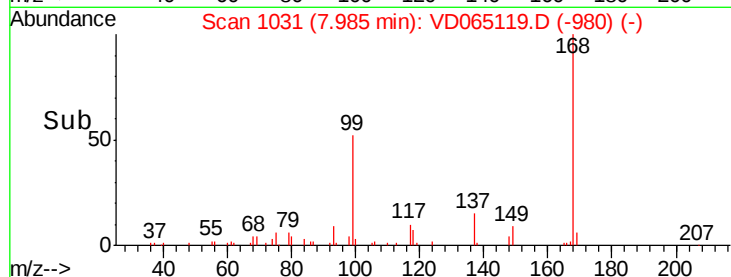
20000

10000

0

Time-->

7.90 8.00 8.10



#33

1,2-Dichloroethane-d4

Concen: 82.068 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065119.D

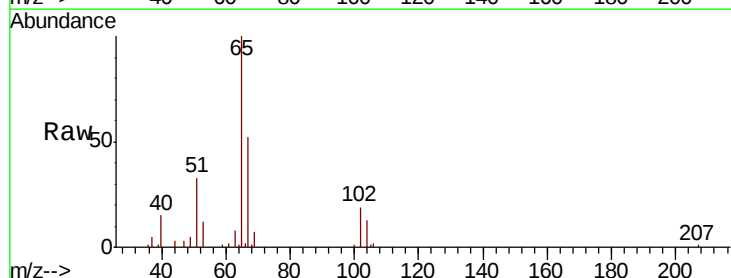
Acq: 07 Feb 2020 19:40

Tgt Ion: 65 Resp: 54240

Ion Ratio Lower Upper

65 100

67 50.9 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

30000

25000

20000

15000

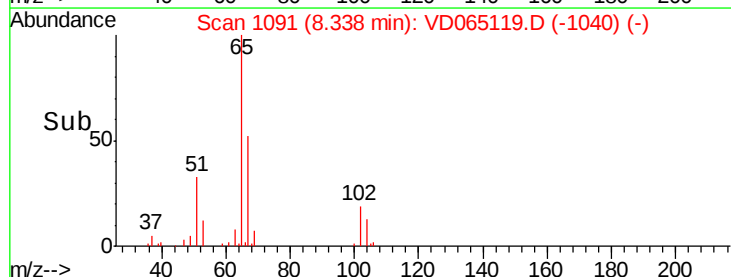
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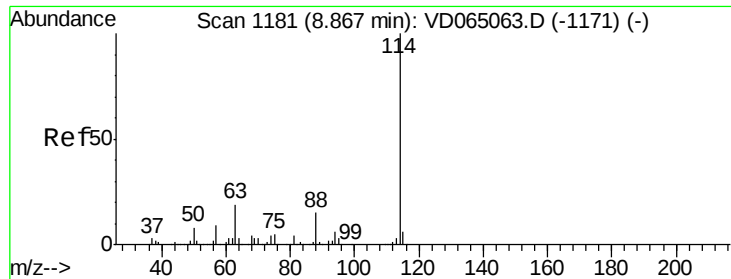
5000

0

Time-->

8.25 8.30 8.35 8.40

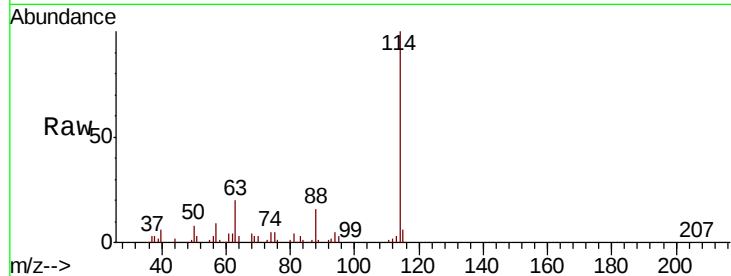




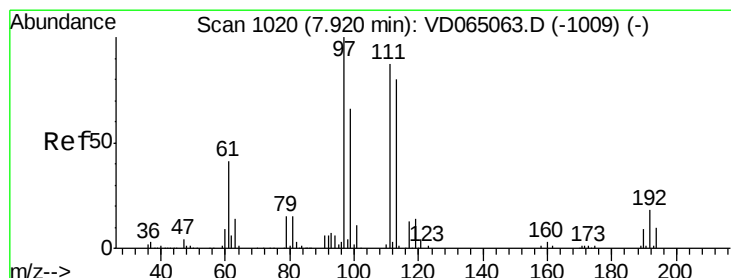
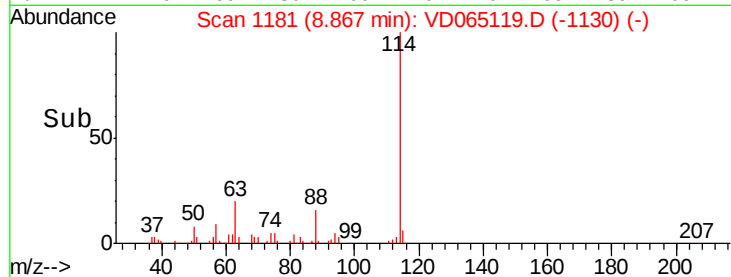
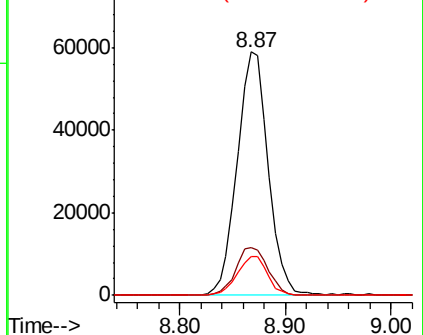
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD065119.D  
 Acq: 07 Feb 2020 19:40

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-13-12-12.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.7  | 0.0   | 38.8  |
| 88      | 16.1  | 0.0   | 29.6  |

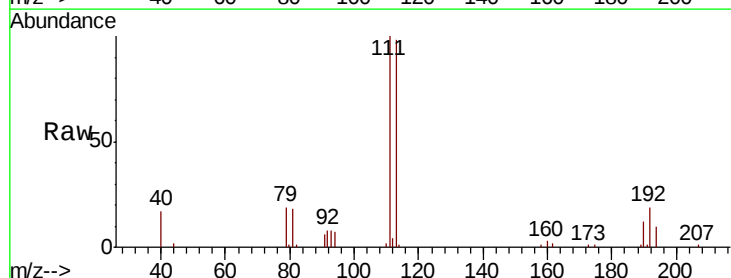


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

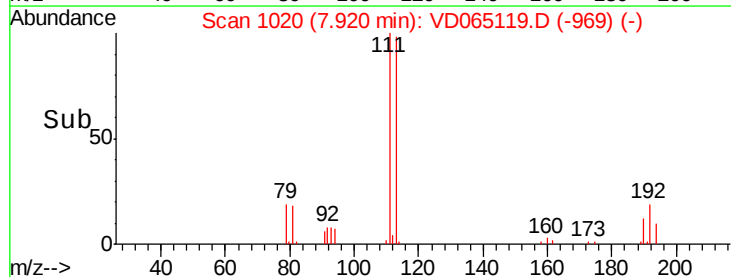
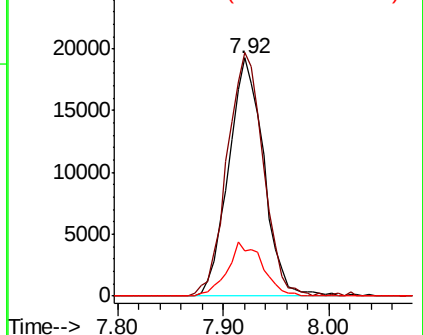


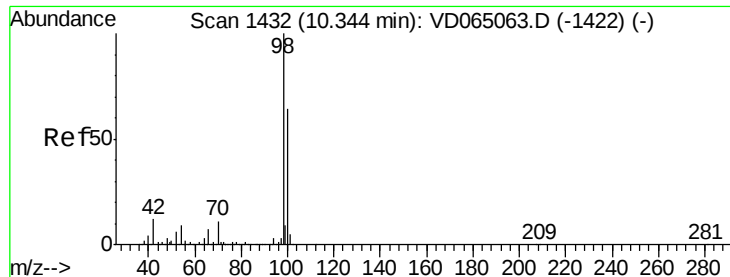
#35  
 Dibromofluoromethane  
 Concen: 66.458 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065119.D  
 Acq: 07 Feb 2020 19:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.7 | 83.1  | 124.7 |
| 192     | 22.4  | 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: 55.137 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065119.D

Acq: 07 Feb 2020 19:40

Instrument :

MSVOA\_D

ClientSampleId :

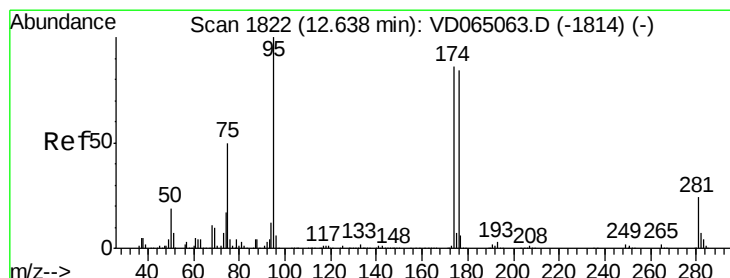
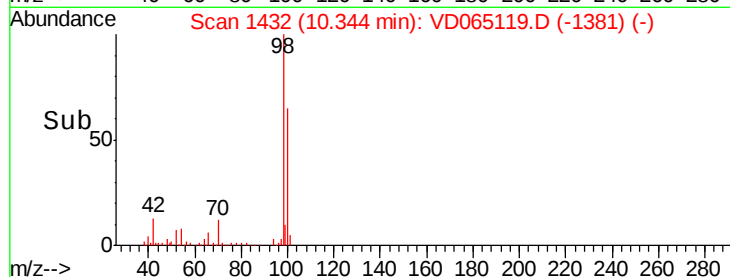
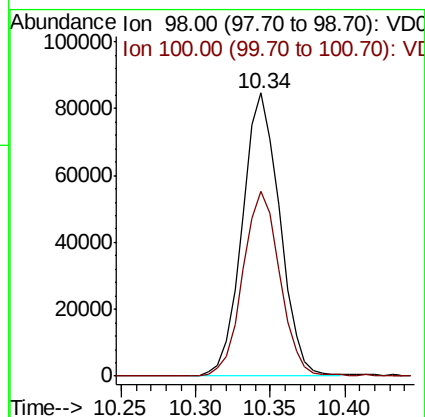
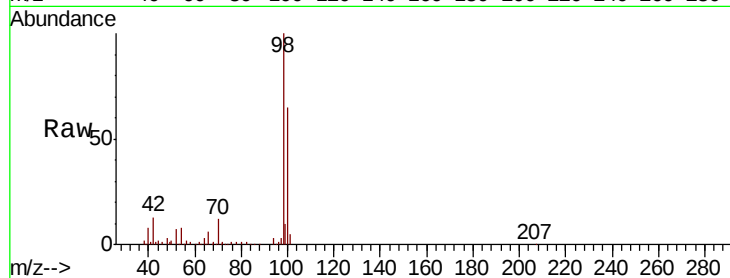
SB-13-12-12.5

Tot Ion: 98 Resp: 146954

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 66.431 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065119.D

Acq: 07 Feb 2020 19:40

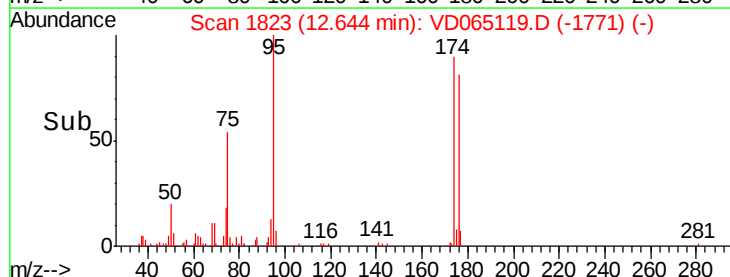
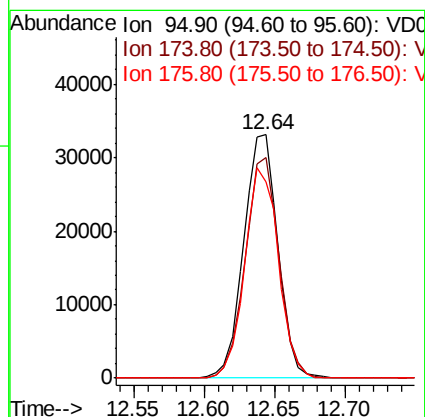
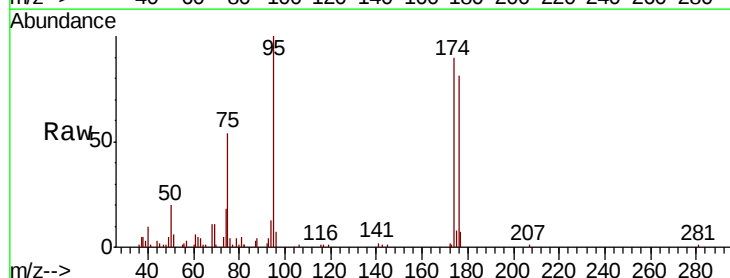
Tgt Ion: 95 Resp: 56102

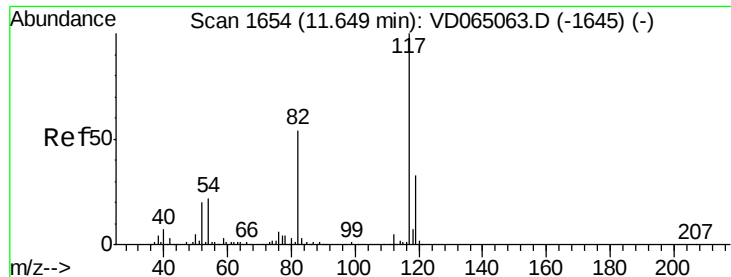
Ion Ratio Lower Upper

95 100

174 89.4 0.0 180.0

176 85.3 0.0 173.2

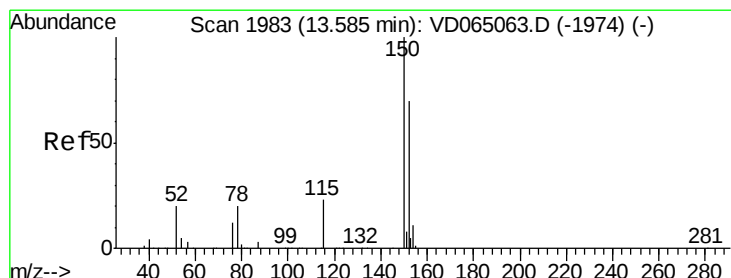
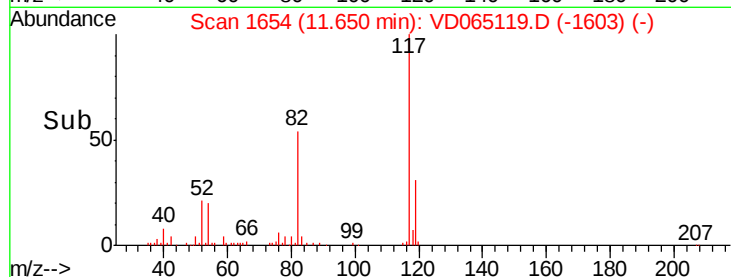
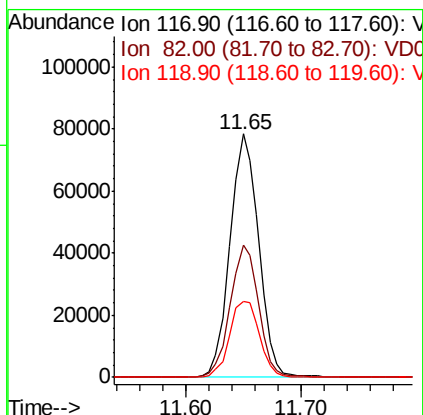
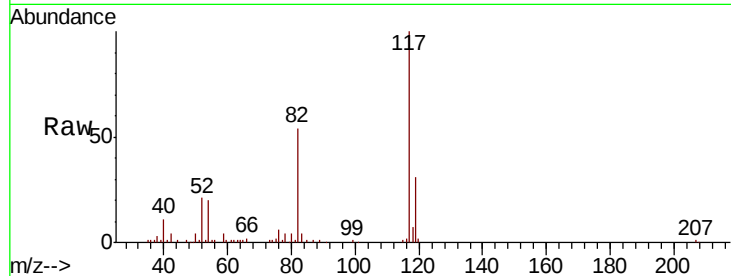




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065119.D  
Acq: 07 Feb 2020 19:40

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-13-12-12.5

Tot Ion:117 Resp: 134781  
Ion Ratio Lower Upper  
117 100  
82 54.1 43.1 64.7  
119 31.3 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065119.D  
Acq: 07 Feb 2020 19:40

Tgt Ion:152 Resp: 69641  
Ion Ratio Lower Upper  
152 100  
115 56.8 27.5 82.4  
150 151.9 0.0 343.2

