

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041819\  
 Data File : VD061874.D  
 Acq On : 18 Apr 2019 15:09  
 Operator : VA/AP  
 Sample : K2397-02  
 Misc : 2.32g/5ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1-S2

Quant Time: Apr 18 15:59:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 466939   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 717633   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 556906   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 196013   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 7.46   | 65  | 194123   | 49.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.20%  |      |
| 35) Dibromofluoromethane    | 6.93   | 113 | 302589   | 55.81 | ug/l    | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.62% |      |
| 50) Toluene-d8              | 10.41  | 98  | 688186   | 53.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.14% |      |
| 62) 4-Bromofluorobenzene    | 13.56  | 95  | 204663   | 39.31 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 78.62%  |      |

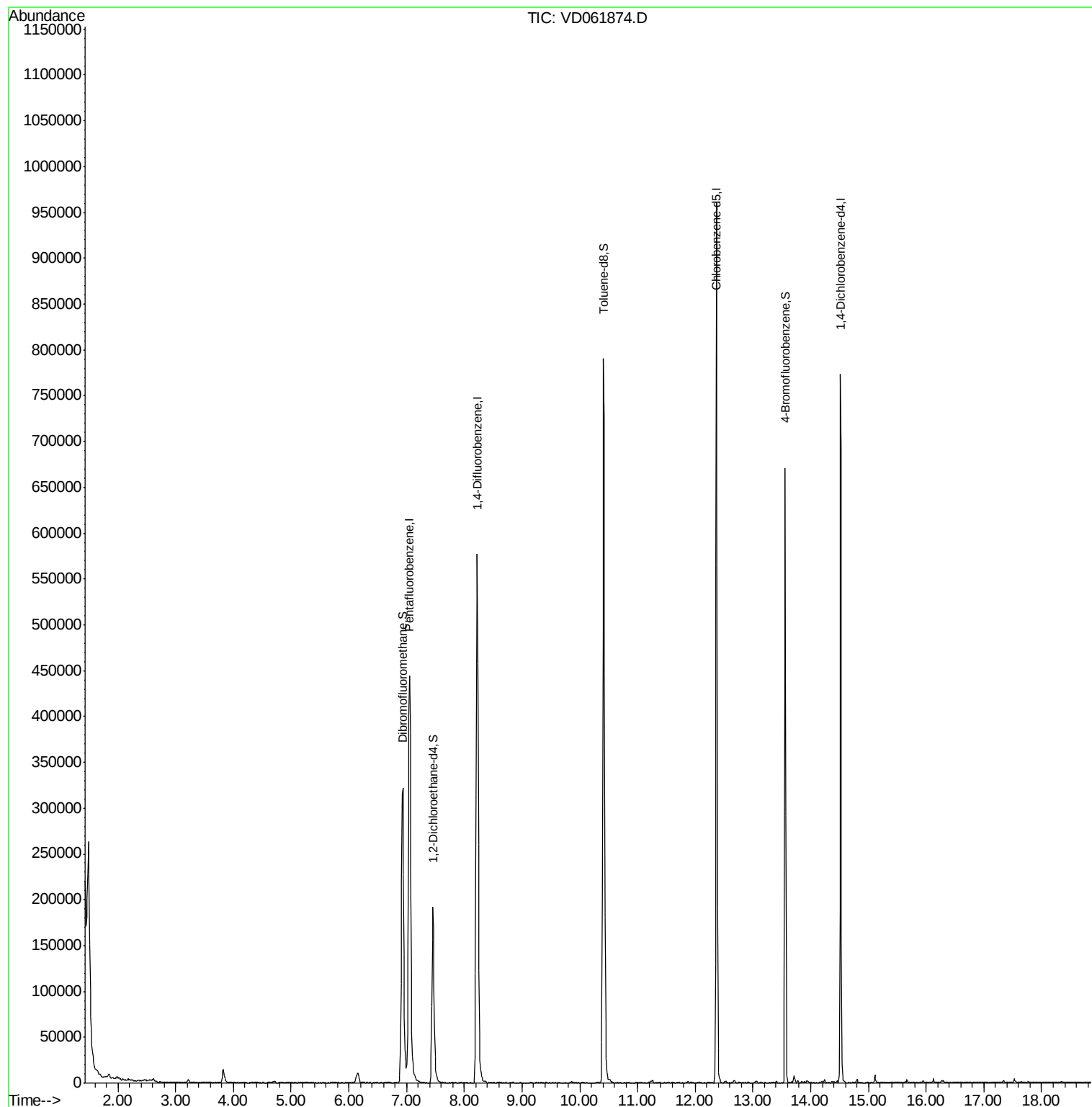
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

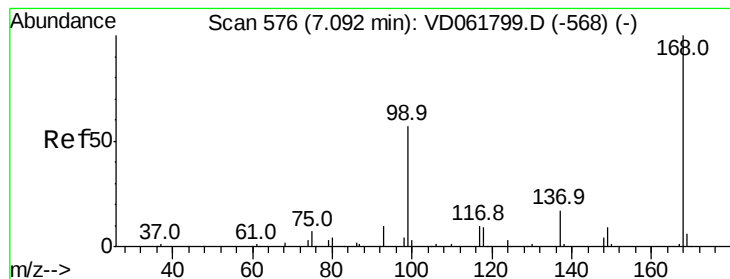
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041819\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1-S2

Quant Time: Apr 18 15:59:16 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 18 13:49:04 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.00 min

Lab File: VD061874.D

Acq: 18 Apr 2019 15:09

Instrument :

MSVOA\_D

ClientSampleId :

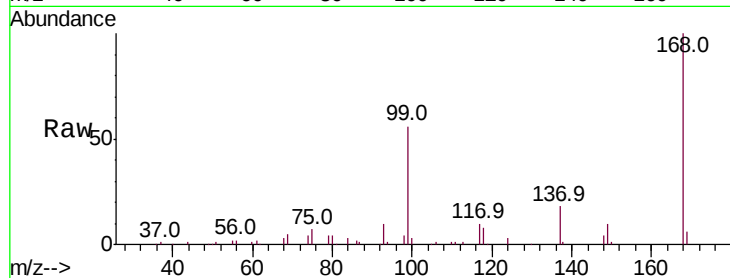
TP-1-S2

Tot Ion:168 Resp: 466939

Ion Ratio Lower Upper

168 100

99 55.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

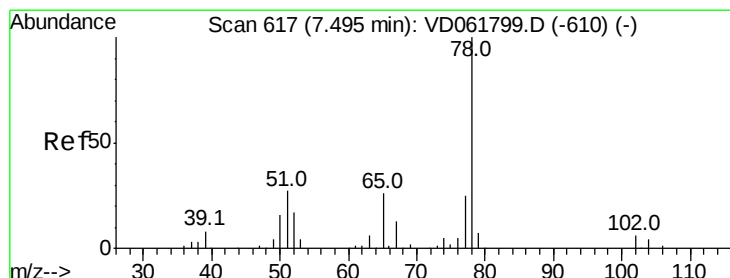
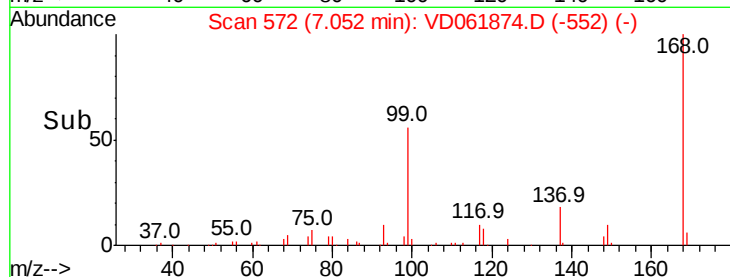
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD061874.D

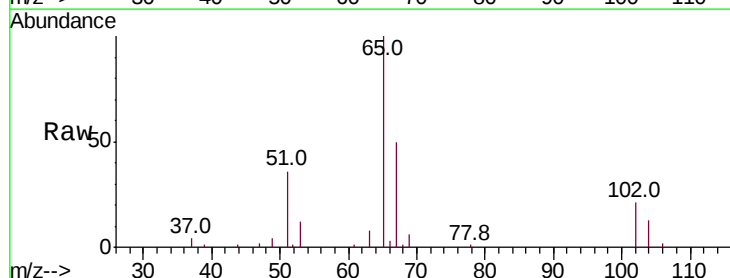
Acq: 18 Apr 2019 15:09

Tgt Ion: 65 Resp: 194123

Ion Ratio Lower Upper

65 100

67 49.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

80000

60000

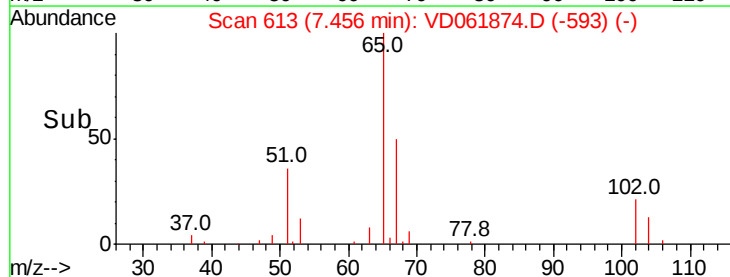
40000

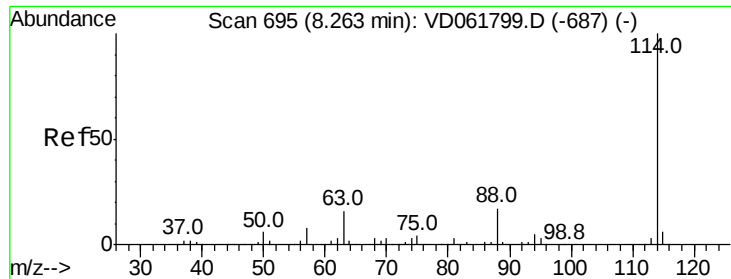
20000

0

7.30 7.40 7.50 7.60

Time-->

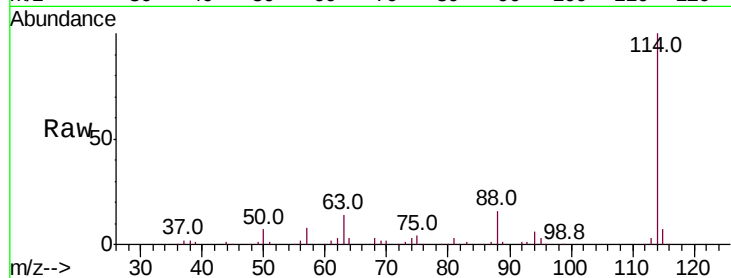




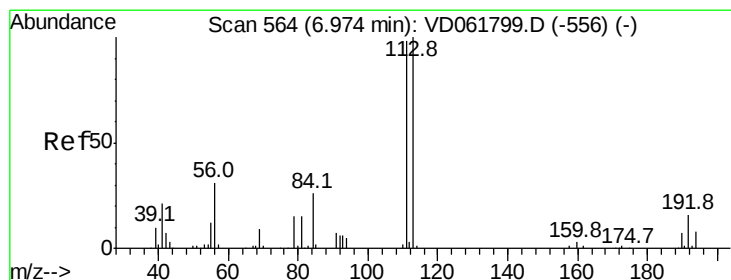
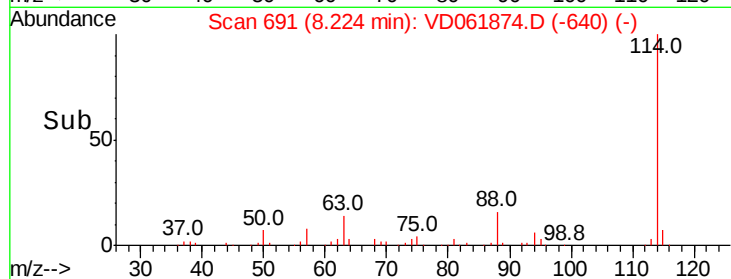
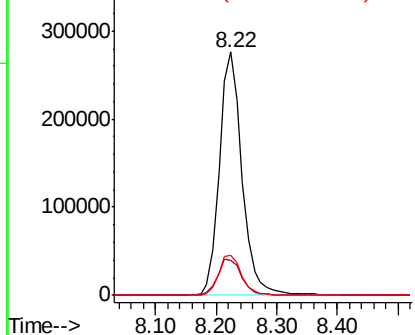
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 691  
 Delta R.T. 0.00 min  
 Lab File: VD061874.D  
 Acq: 18 Apr 2019 15:09

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1-S2

Tot Ion:114 Resp: 717633  
 Ion Ratio Lower Upper  
 114 100  
 63 14.5 0.0 32.4  
 88 16.3 0.0 33.6

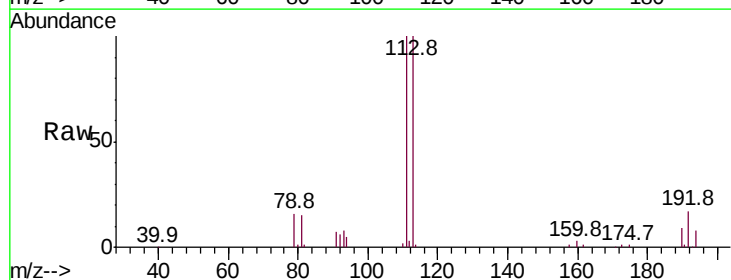


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

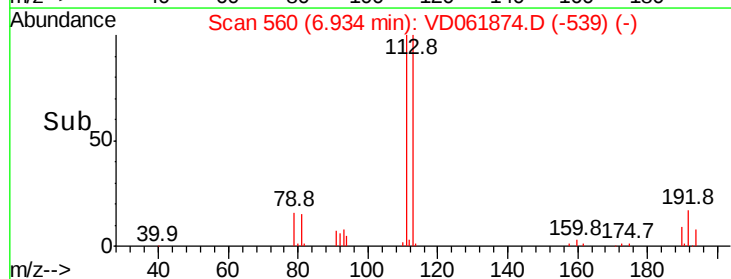
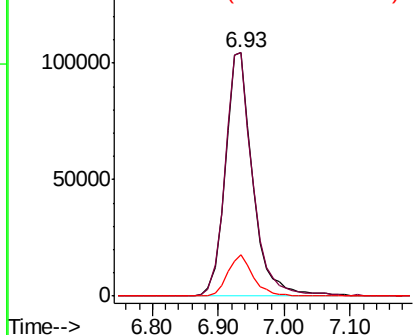


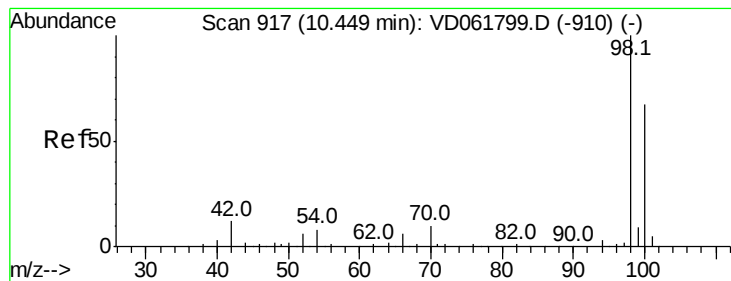
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.93 min Scan# 560  
 Delta R.T. 0.01 min  
 Lab File: VD061874.D  
 Acq: 18 Apr 2019 15:09

Tgt Ion:113 Resp: 302589  
 Ion Ratio Lower Upper  
 113 100  
 111 100.1 78.5 117.7  
 192 16.8 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD061874.D

Acq: 18 Apr 2019 15:09

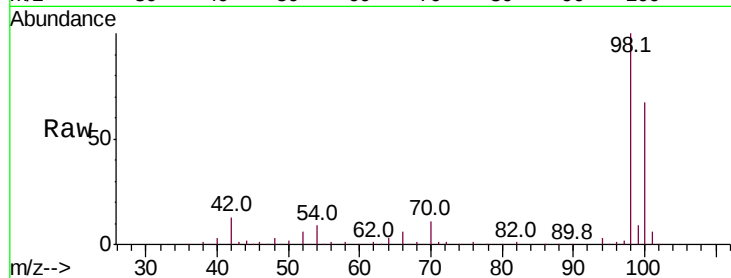
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1-S2

Tot Ion: 98 Resp: 688186

Ion Ratio Lower Upper

98 100

100 66.8 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)

Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

10.41

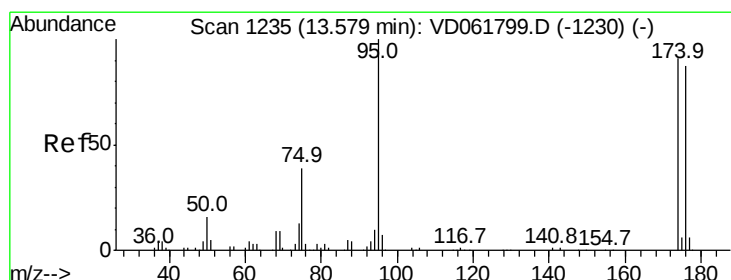
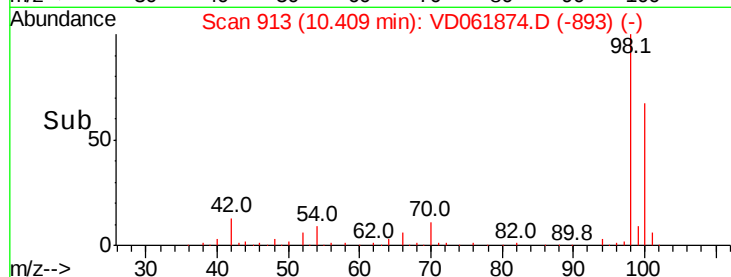
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD061874.D

Acq: 18 Apr 2019 15:09

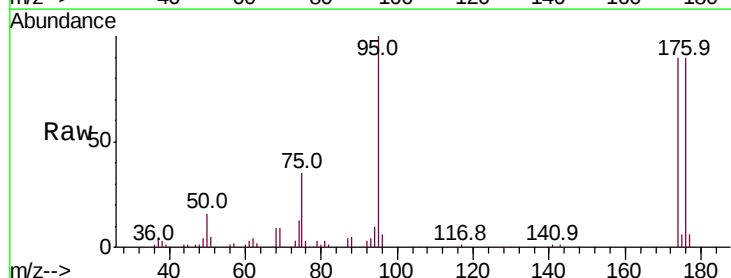
Tgt Ion: 95 Resp: 204663

Ion Ratio Lower Upper

95 100

174 90.2 0.0 181.8

176 90.4 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD061799.D (-1230) (-)

Ion 173.90 (173.60 to 174.60): VD061799.D (-1230) (-)

Ion 175.90 (175.60 to 176.60): VD061799.D (-1230) (-)

13.56

200000

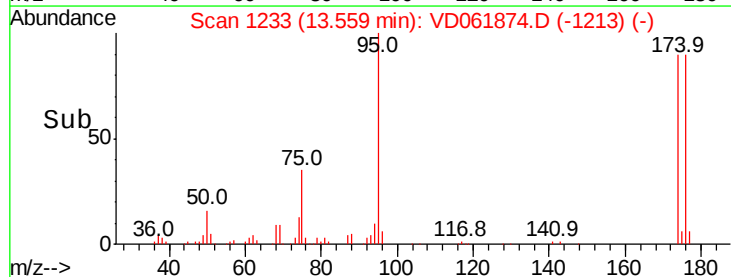
150000

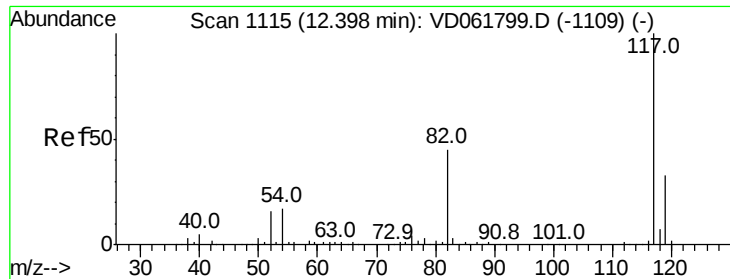
100000

50000

0

Time-->

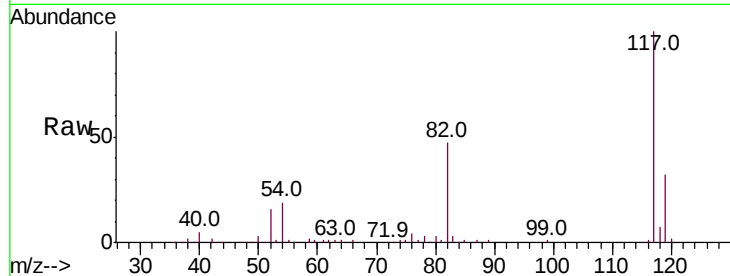




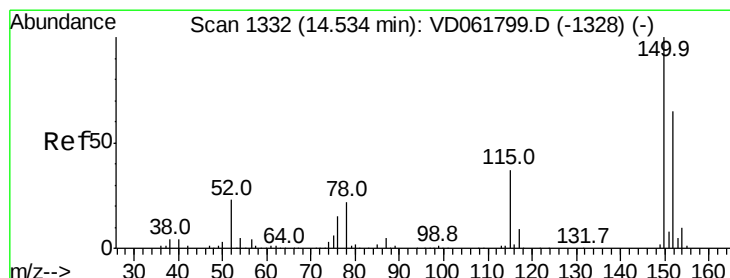
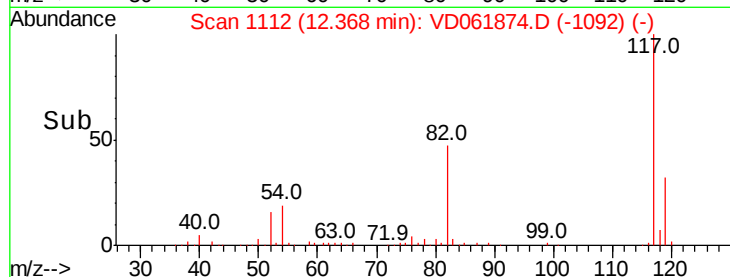
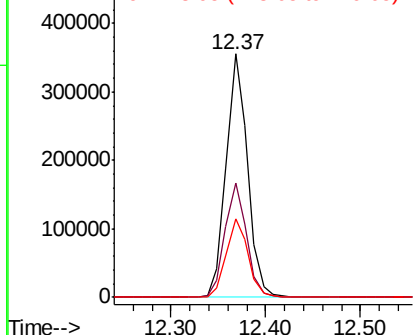
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: VD061874.D  
Acq: 18 Apr 2019 15:09

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1-S2

Tot Ion:117 Resp: 556906  
Ion Ratio Lower Upper  
117 100  
82 47.1 36.2 54.2  
119 32.3 26.2 39.4

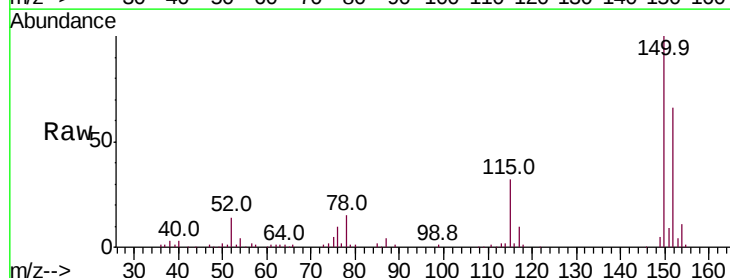


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1331  
Delta R.T. 0.00 min  
Lab File: VD061874.D  
Acq: 18 Apr 2019 15:09

Tgt Ion:152 Resp: 196013  
Ion Ratio Lower Upper  
152 100  
115 49.2 30.9 92.7  
150 152.4 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V

