

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\  
 Data File : VD058273.D  
 Acq On : 22 Jun 2018 2:55  
 Operator : VA/AP  
 Sample : J3246-03  
 Misc : 5.66g/5ml/MSVOA D/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OK-01-062018

Quant Time: Jun 22 08:00:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 626162   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 6.70  | 114  | 813355   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 585523   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 290034   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 362515   | 57.32 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 114.64% |          |
| 35) Dibromofluoromethane    | 5.55  | 113  | 344901   | 52.10 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.20% |          |
| 50) Toluene-d8              | 8.71  | 98   | 685358   | 42.79 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 85.58%  |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 297645   | 45.49 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.98%  |          |

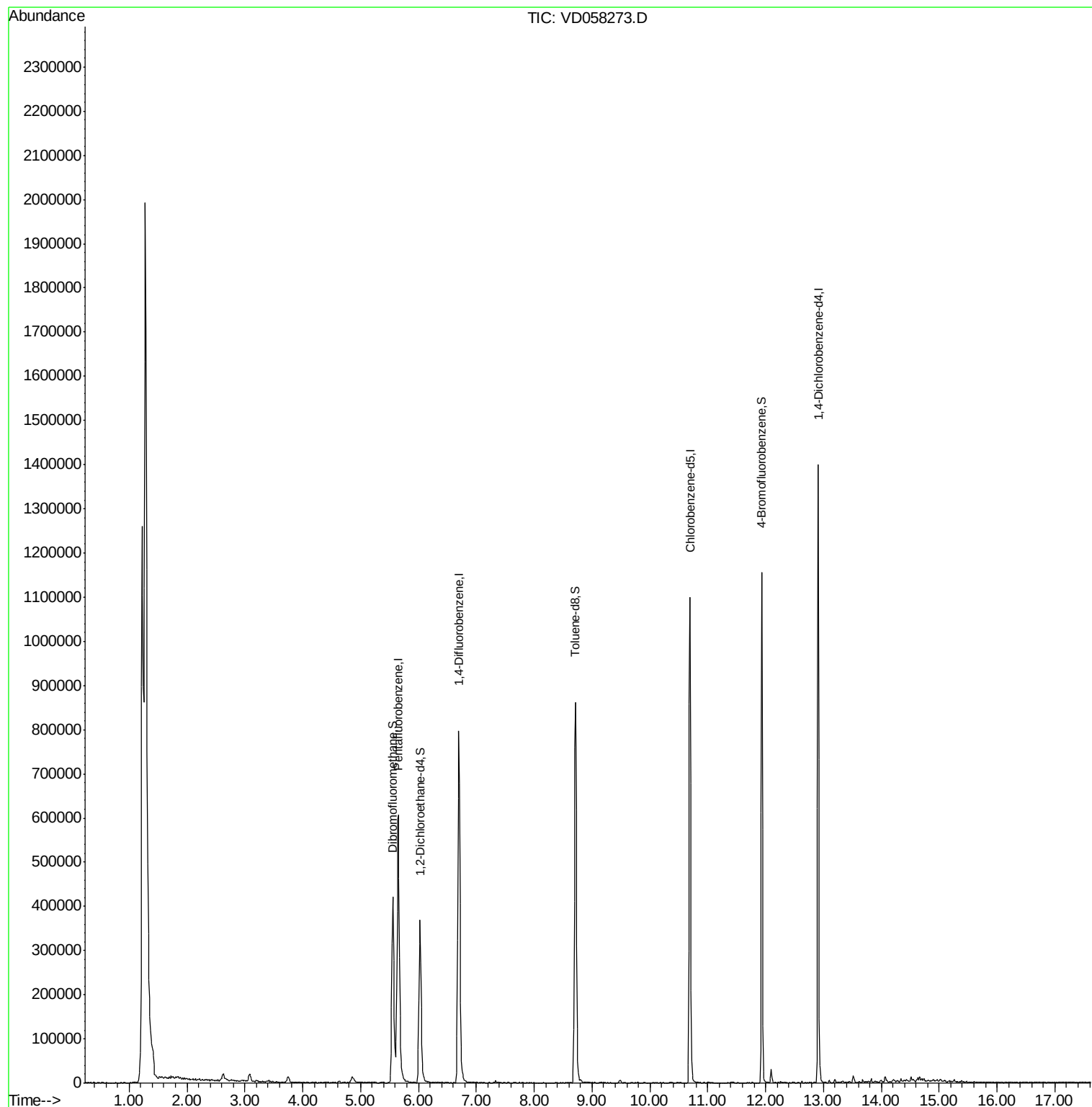
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

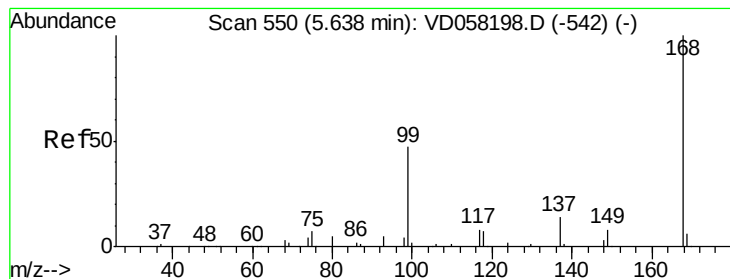
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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OK-01-062018

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Quant Title : SW846 8260  
QLast Update : Wed Jun 20 05:52:56 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058273.D

Acq: 22 Jun 2018 2:55

Instrument :

MSVOA\_D

ClientSampleId :

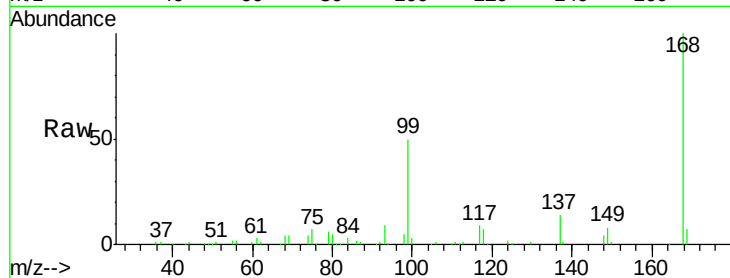
OK-01-062018

Tot Ion:168 Resp: 626162

Ion Ratio Lower Upper

168 100

99 50.0 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.65

250000

200000

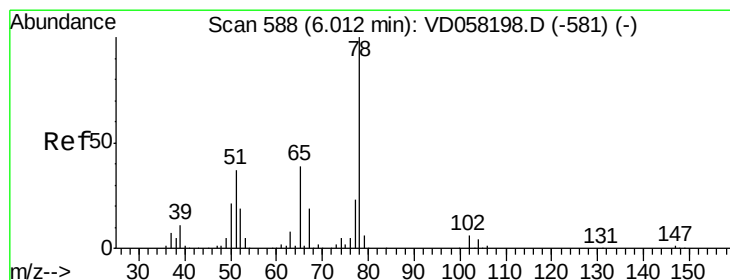
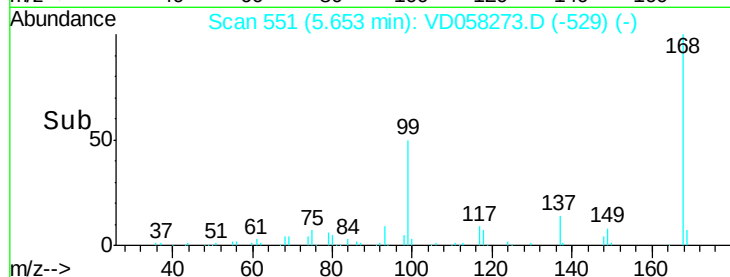
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.03 min Scan# 589

Delta R.T. 0.02 min

Lab File: VD058273.D

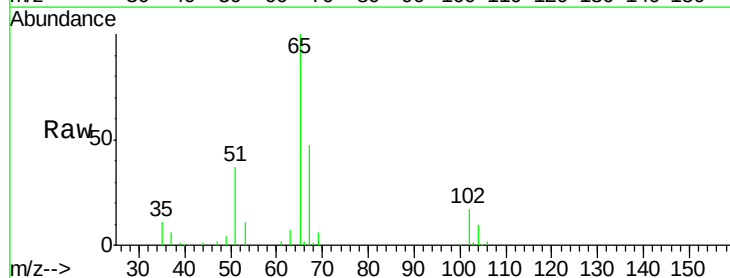
Acq: 22 Jun 2018 2:55

Tgt Ion: 65 Resp: 362515

Ion Ratio Lower Upper

65 100

67 46.9 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.03

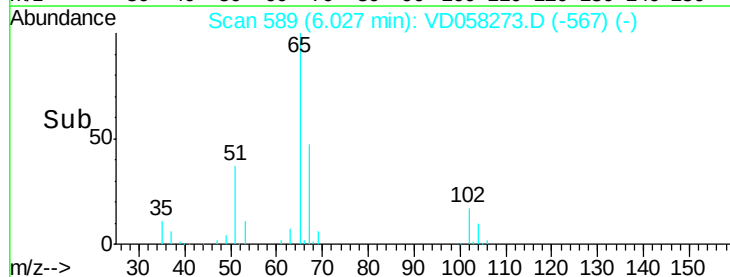
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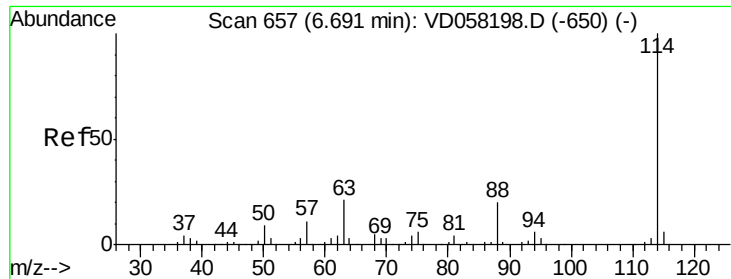
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Time-->

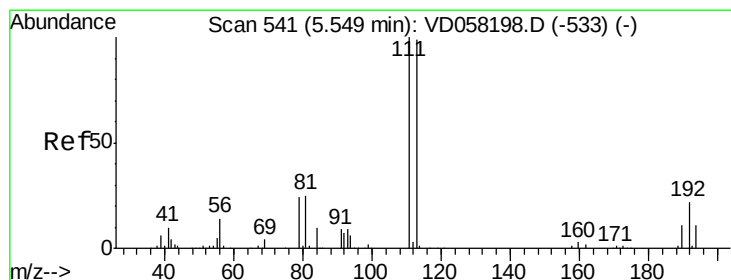
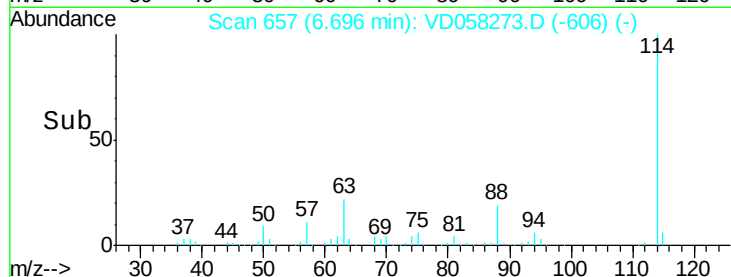
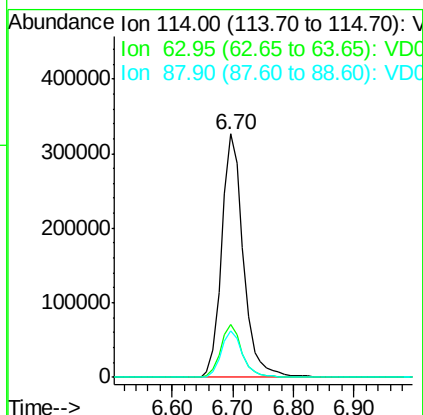
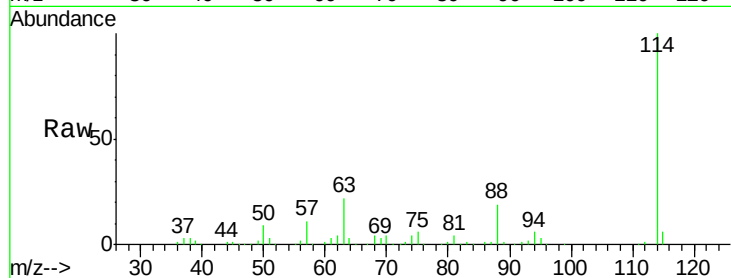




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.70 min Scan# 657  
 Delta R.T. 0.01 min  
 Lab File: VD058273.D  
 Acq: 22 Jun 2018 2:55

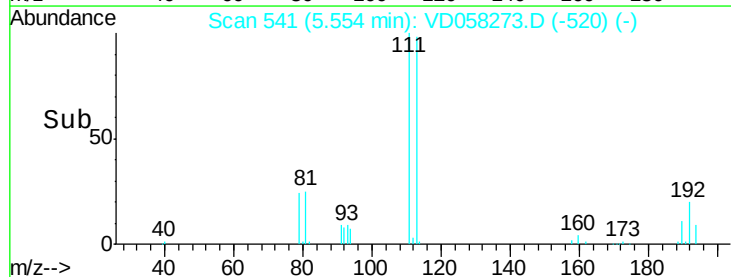
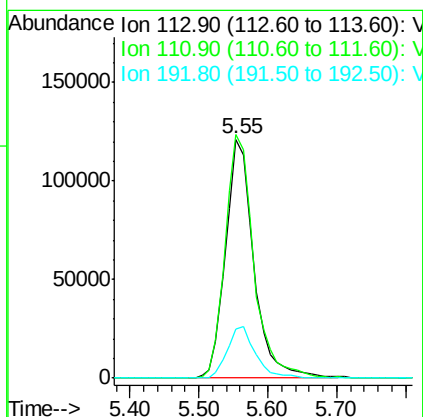
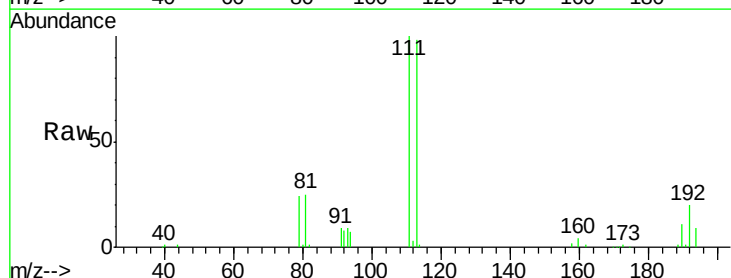
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OK-01-062018

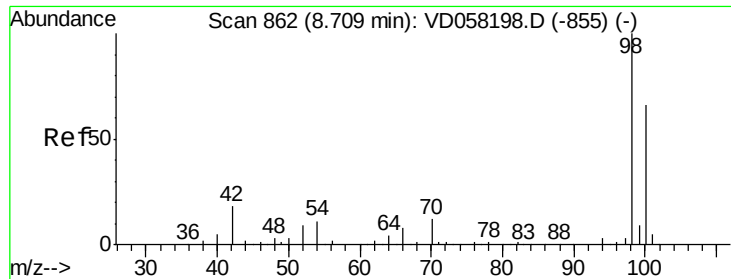
Tot Ion:114 Resp: 813355  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 42.6  
 88 19.2 0.0 40.6



#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 5.55 min Scan# 541  
 Delta R.T. 0.01 min  
 Lab File: VD058273.D  
 Acq: 22 Jun 2018 2:55

Tgt Ion:113 Resp: 344901  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 80.6 121.0  
 192 20.4 17.8 26.6

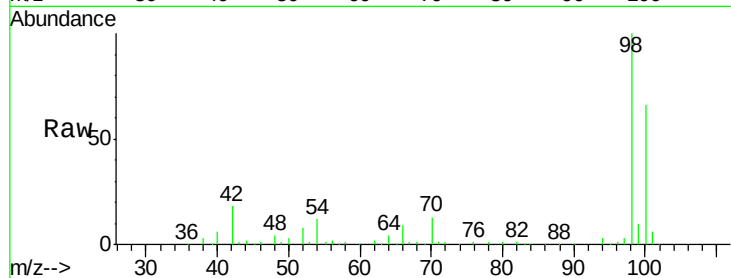




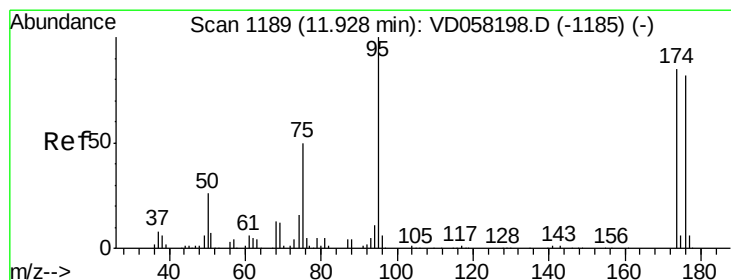
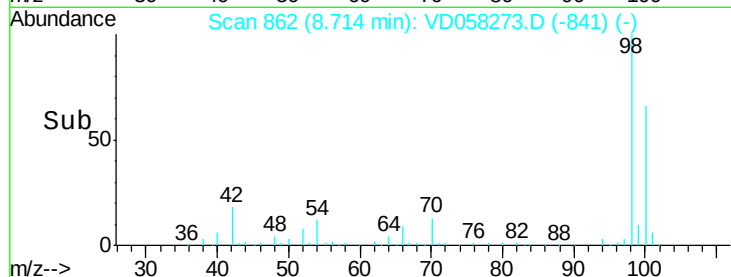
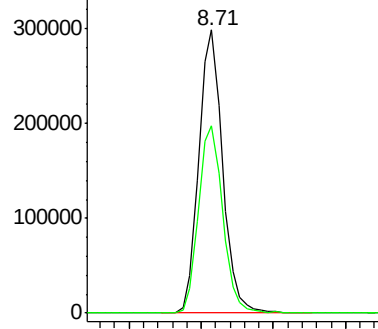
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 8.71 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: VD058273.D  
Acq: 22 Jun 2018 2:55

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-01-062018

Tot Ion: 98 Resp: 685358  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.6 80.4

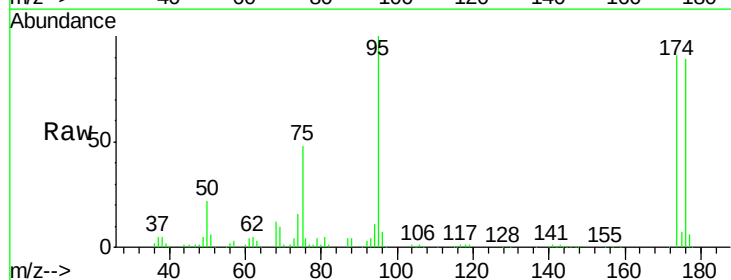


Abundance Ion 98.05 (97.75 to 98.75): VD058198.D (-855) (-)  
Ion 100.05 (99.75 to 100.75): VD058198.D (-855) (-)

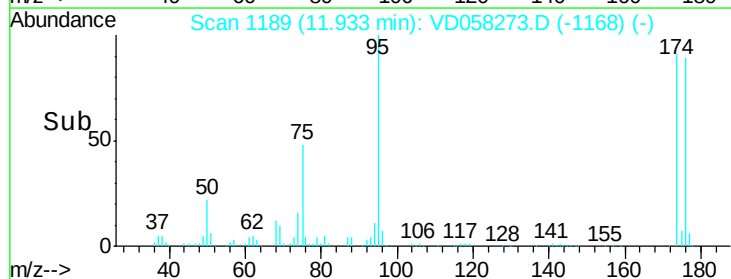
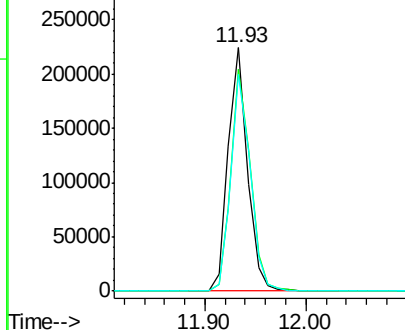


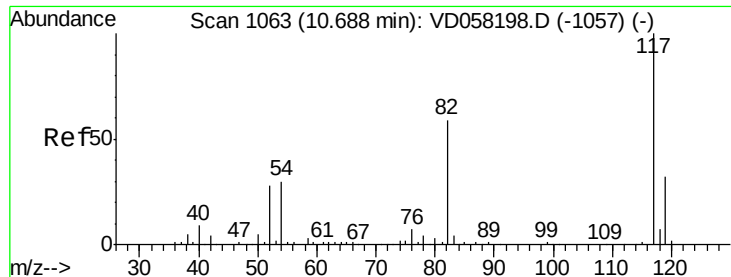
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 11.93 min Scan# 1189  
Delta R.T. 0.01 min  
Lab File: VD058273.D  
Acq: 22 Jun 2018 2:55

Tgt Ion: 95 Resp: 297645  
Ion Ratio Lower Upper  
95 100  
174 91.3 0.0 170.2  
176 88.8 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VD058198.D (-1185) (-)  
Ion 173.90 (173.60 to 174.60): VD058198.D (-1185) (-)  
Ion 175.90 (175.60 to 176.60): VD058198.D (-1185) (-)

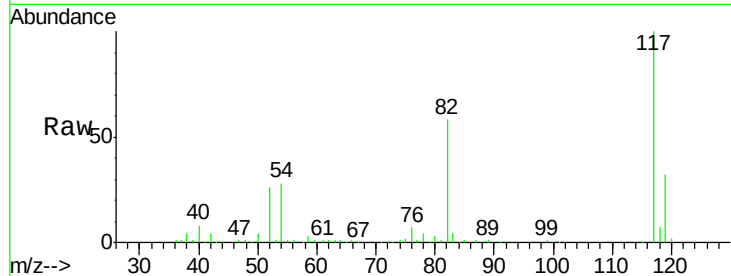




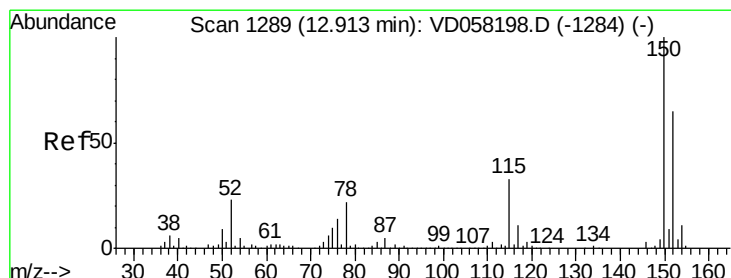
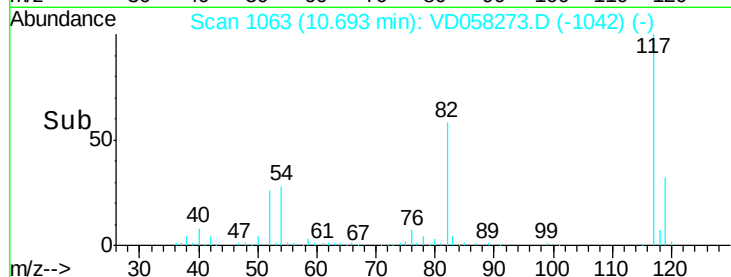
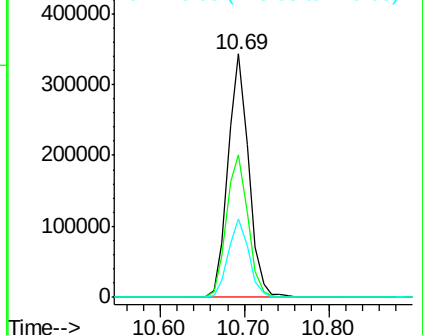
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.69 min Scan# 1063  
Delta R.T. 0.01 min  
Lab File: VD058273.D  
Acq: 22 Jun 2018 2:55

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-01-062018

Tot Ion:117 Resp: 585523  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.0 70.6  
119 32.2 25.3 37.9

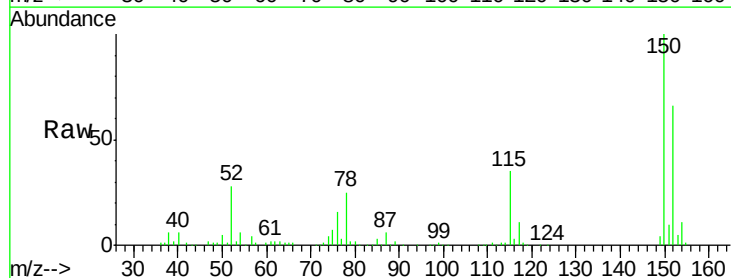


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.91 min Scan# 1288  
Delta R.T. -0.00 min  
Lab File: VD058273.D  
Acq: 22 Jun 2018 2:55

Tgt Ion:152 Resp: 290034  
Ion Ratio Lower Upper  
152 100  
115 52.4 25.1 75.3  
150 151.4 0.0 308.8



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

