

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\  
 Data File : VD063109.D  
 Acq On : 16 Jul 2019 16:26  
 Operator : VA/AP  
 Sample : K3620-01  
 Misc : 7.73g/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-071219-A

Quant Time: Jul 17 08:15:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 16 08:11:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.03  | 168  | 652615   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 855586   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 629604   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 332259   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 7.44   | 65  | 380577   | 46.81 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.62% |      |
| 35) Dibromofluoromethane    | 6.91   | 113 | 416412   | 48.86 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.72% |      |
| 50) Toluene-d8              | 10.40  | 98  | 678891   | 37.09 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 74.18% |      |
| 62) 4-Bromofluorobenzene    | 13.55  | 95  | 365095   | 43.11 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.22% |      |

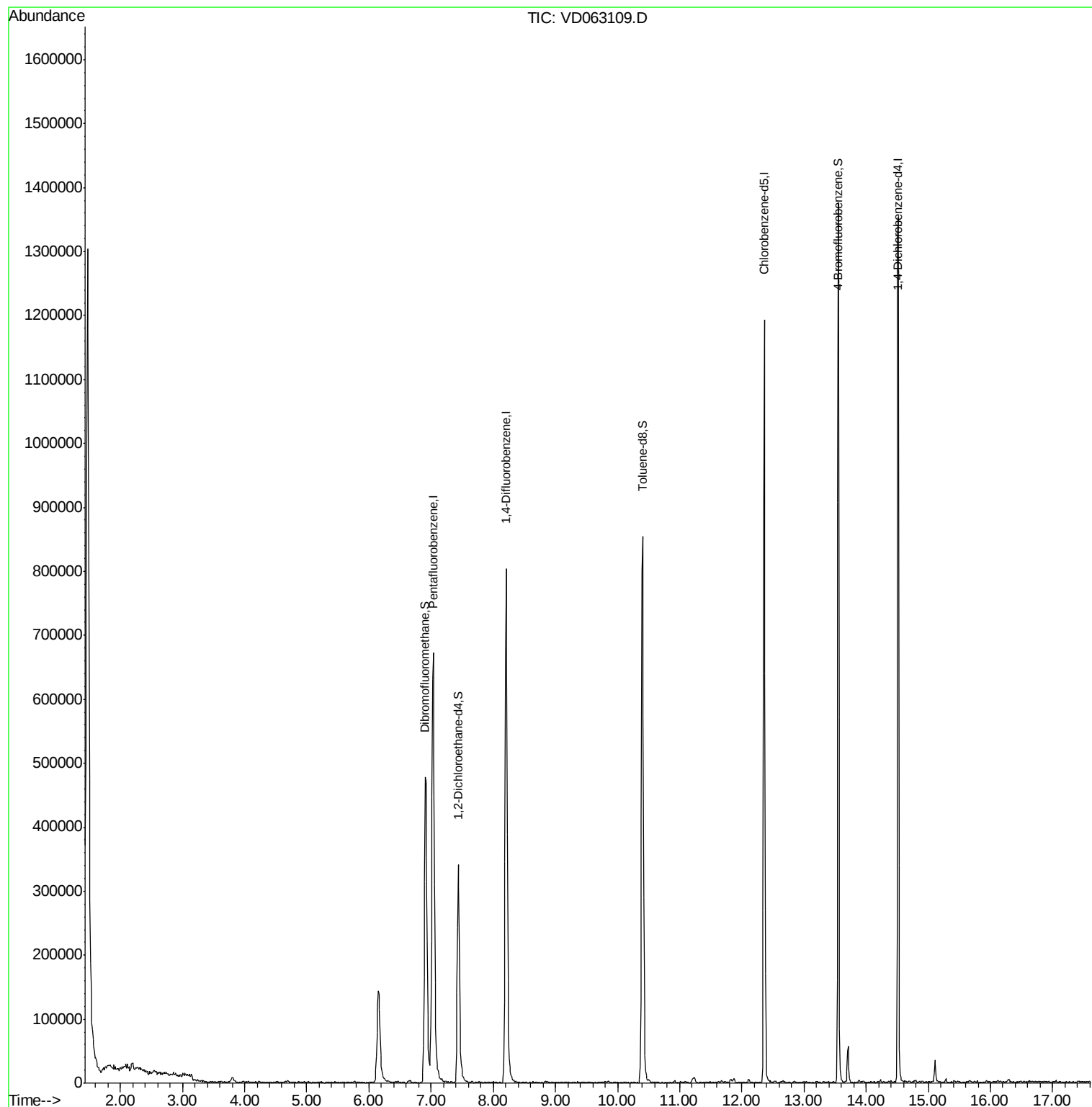
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

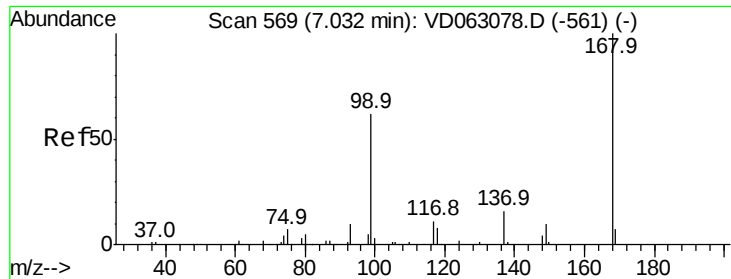
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071619\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-071219-A

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 16 08:11:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063109.D

Acq: 16 Jul 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

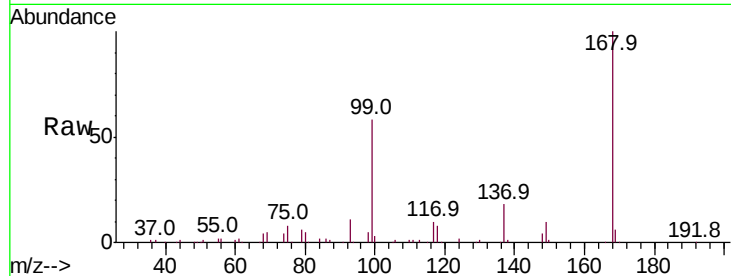
CL-01-071219-A

Tot Ion:168 Resp: 652615

Ion Ratio Lower Upper

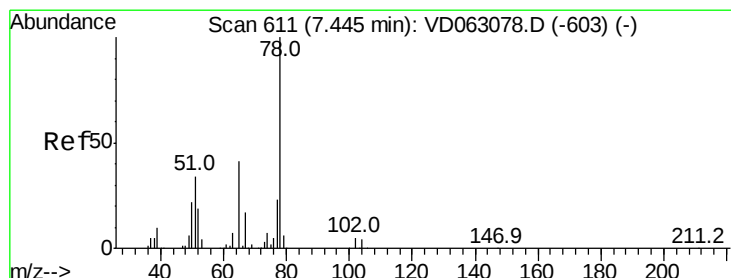
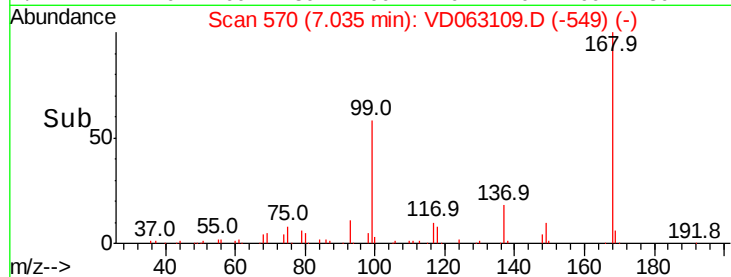
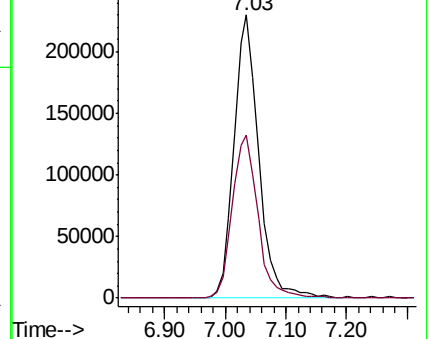
168 100

99 57.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 46.814 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD063109.D

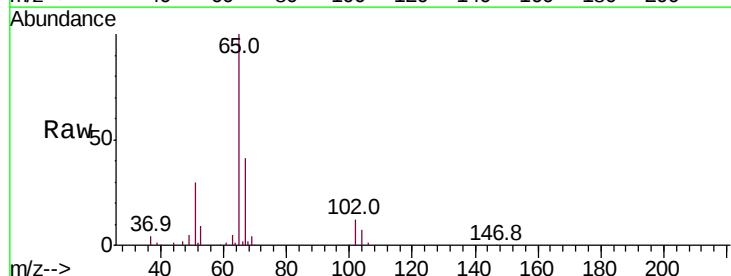
Acq: 16 Jul 2019 16:26

Tgt Ion: 65 Resp: 380577

Ion Ratio Lower Upper

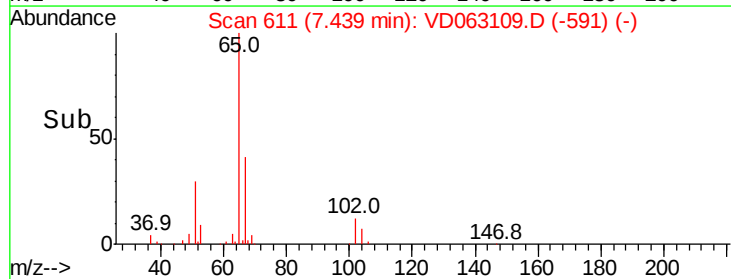
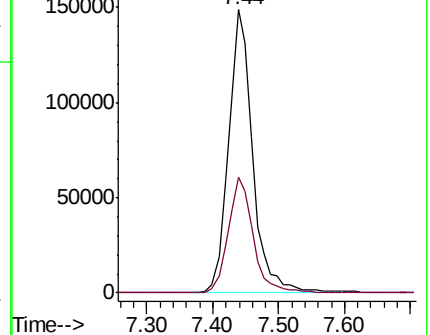
65 100

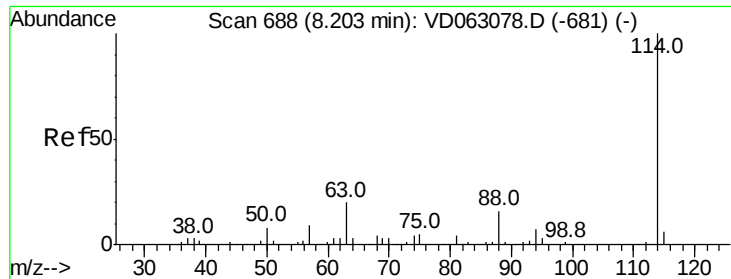
67 40.8 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

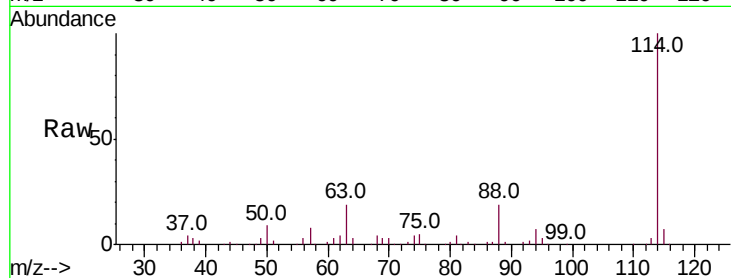




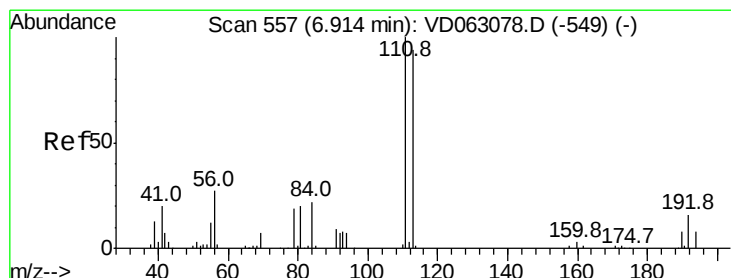
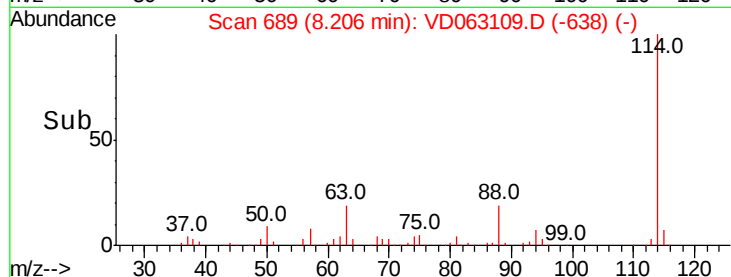
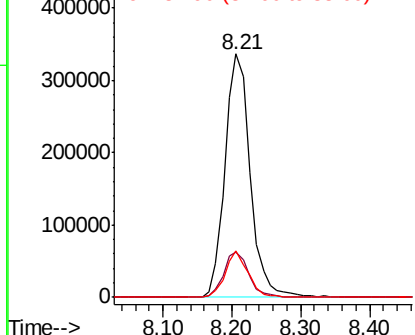
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 689  
 Delta R.T. 0.00 min  
 Lab File: VD063109.D  
 Acq: 16 Jul 2019 16:26

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-071219-A

Tot Ion:114 Resp: 855586  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 40.6  
 88 19.0 0.0 32.6

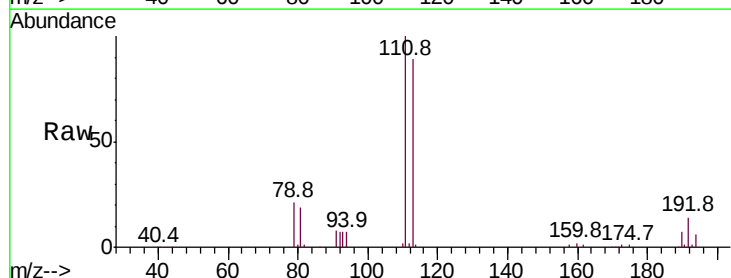


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

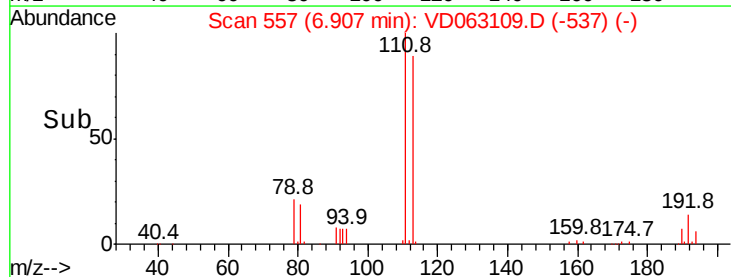
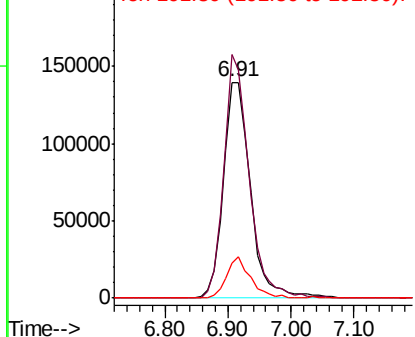


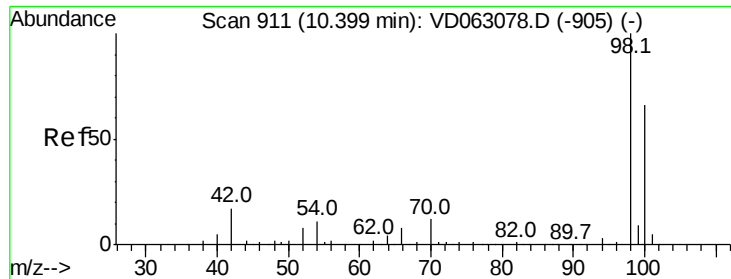
#35  
 Dibromofluoromethane  
 Concen: 48.864 ug/l  
 RT: 6.91 min Scan# 557  
 Delta R.T. -0.01 min  
 Lab File: VD063109.D  
 Acq: 16 Jul 2019 16:26

Tgt Ion:113 Resp: 416412  
 Ion Ratio Lower Upper  
 113 100  
 111 112.7 84.8 127.2  
 192 16.2 13.4 20.0



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: 37.088 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063109.D

Acq: 16 Jul 2019 16:26

Instrument :

MSVOA\_D

ClientSampleId :

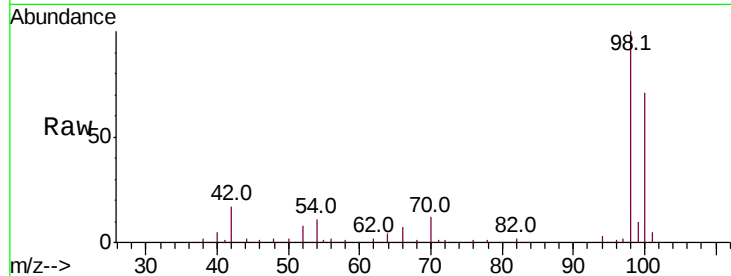
CL-01-071219-A

Tot Ion: 98 Resp: 678891

Ion Ratio Lower Upper

98 100

100 71.4 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): VD063078.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD063078.D (-905) (-)

10.40

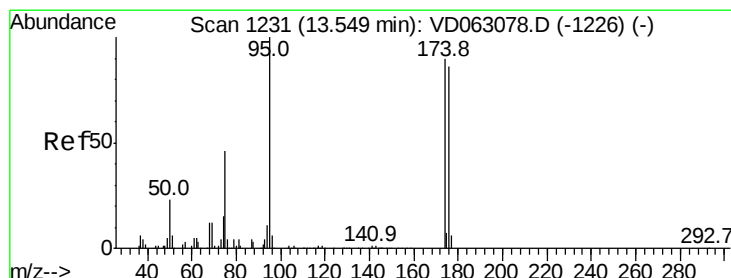
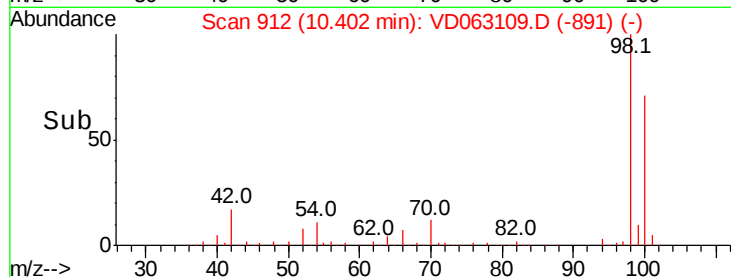
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.112 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063109.D

Acq: 16 Jul 2019 16:26

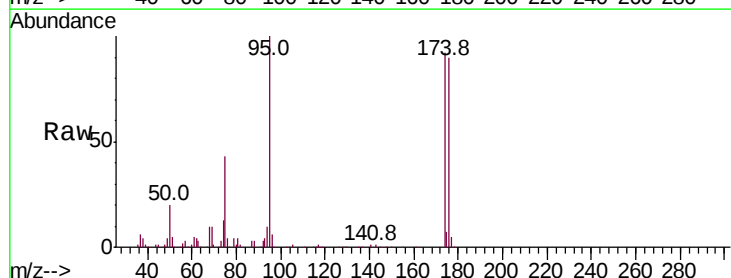
Tgt Ion: 95 Resp: 365095

Ion Ratio Lower Upper

95 100

174 91.9 0.0 180.6

176 90.3 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VD063078.D (-1226) (-)

Ion 173.90 (173.60 to 174.60): VD063078.D (-1226) (-)

Ion 175.90 (175.60 to 176.60): VD063078.D (-1226) (-)

13.55

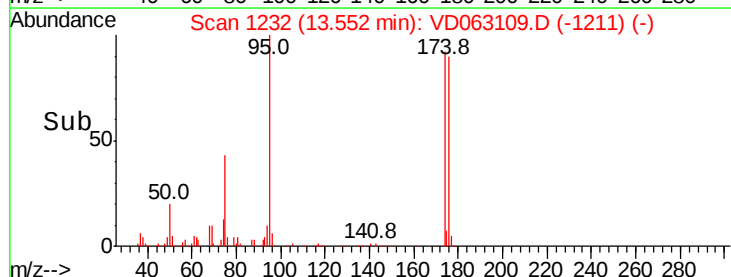
300000

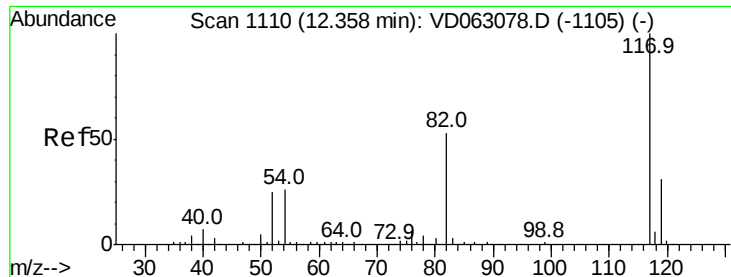
200000

100000

0

Time-->

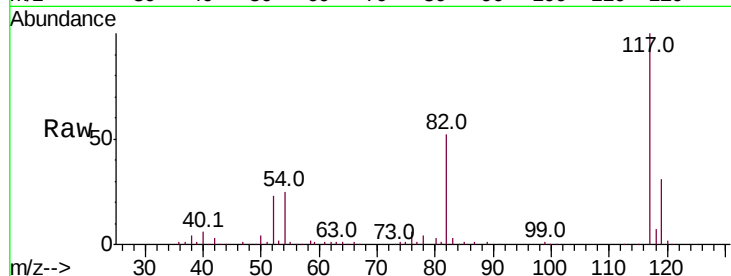




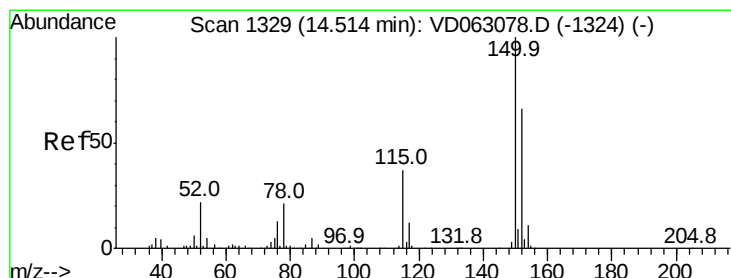
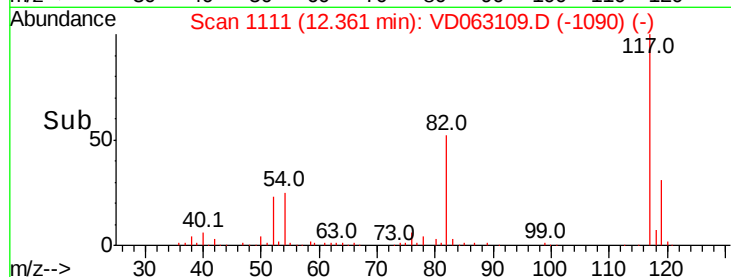
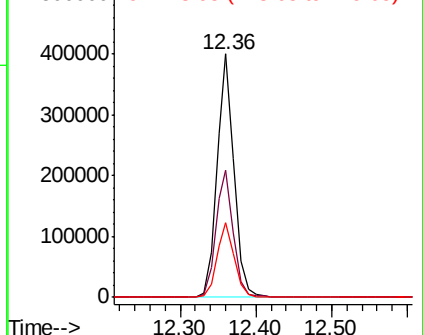
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD063109.D  
Acq: 16 Jul 2019 16:26

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-071219-A

Tot Ion:117 Resp: 629604  
Ion Ratio Lower Upper  
117 100  
82 52.2 42.3 63.5  
119 30.8 25.2 37.8

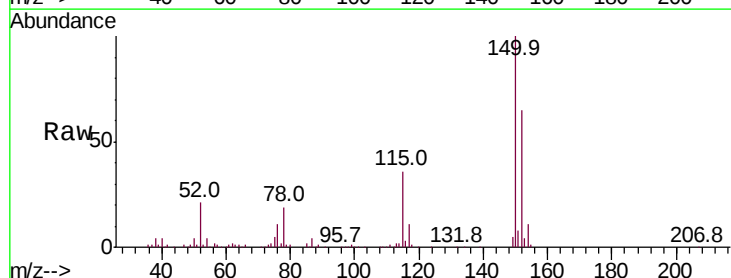


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD063109.D  
Acq: 16 Jul 2019 16:26

Tgt Ion:152 Resp: 332259  
Ion Ratio Lower Upper  
152 100  
115 54.7 28.9 86.8  
150 153.1 0.0 313.8



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

