

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041819\  
 Data File : VD061899.D  
 Acq On : 19 Apr 2019 6:26  
 Operator : VA/AP  
 Sample : K2197-11  
 Misc : 6.73g/5ml/MSVOA D/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-041619-D

Quant Time: Apr 19 08:05:35 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  | 371240   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 599322   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 463977   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 166779   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 185155   | 59.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.02% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 276047   | 60.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 121.94% |          |
| 50) Toluene-d8              | 10.42 | 98   | 519928   | 48.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.92%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 203860   | 46.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.76%  |          |

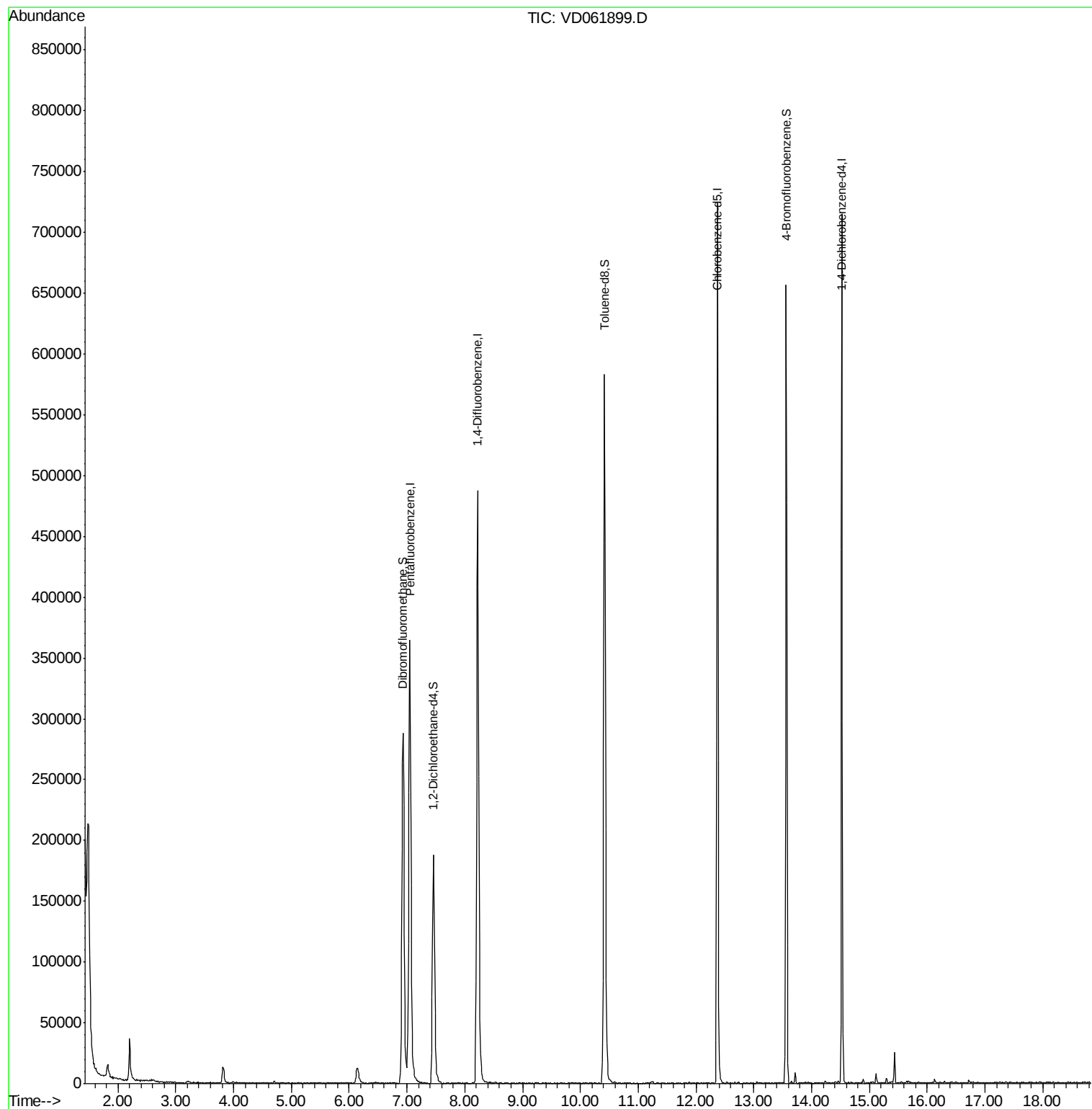
| Target Compounds       | R.T. | QIon | Response | Conc      | Units | Qvalue |
|------------------------|------|------|----------|-----------|-------|--------|
| 20) Methylene Chloride | 3.81 | 84   | 10279    | Below Cal |       | 90     |

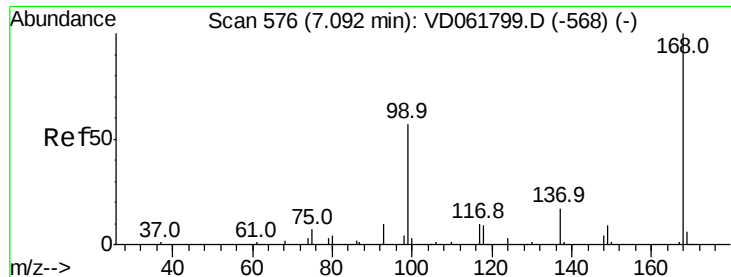
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD061899.D

Acq: 19 Apr 2019 6:26

Instrument :

MSVOA\_D

ClientSampleId :

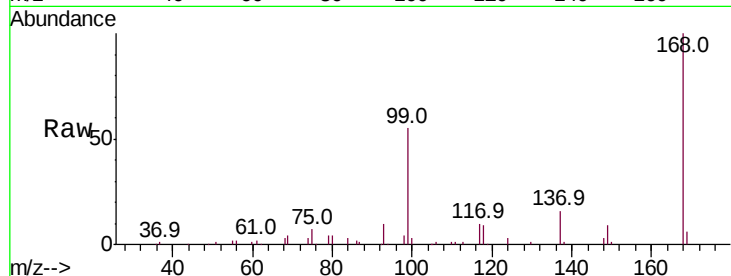
CL-01-041619-D

Tot Ion:168 Resp: 371240

Ion Ratio Lower Upper

168 100

99 55.1 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

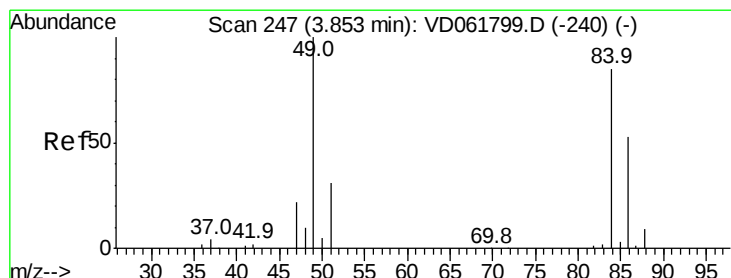
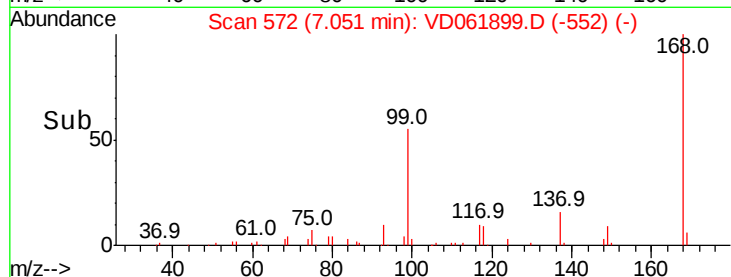
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 3.81 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD061899.D

Acq: 19 Apr 2019 6:26

Tgt Ion: 84 Resp: 10279

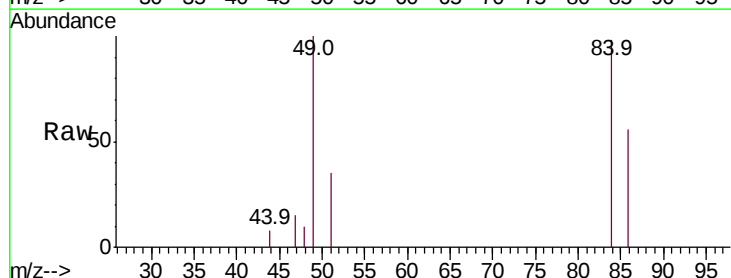
Ion Ratio Lower Upper

84 100

49 102.4 94.0 141.0

51 36.1 29.0 43.4

86 56.9 49.8 74.6



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

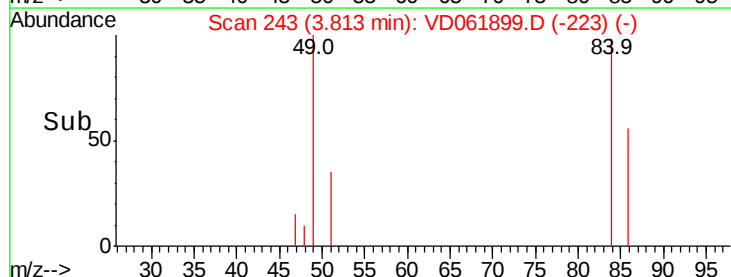
6000

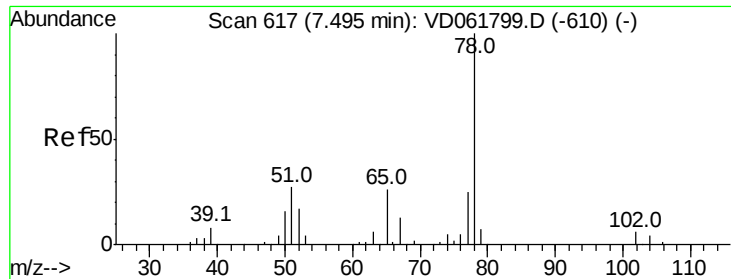
4000

2000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD061899.D

Acq: 19 Apr 2019 6:26

Instrument :

MSVOA\_D

ClientSampleId :

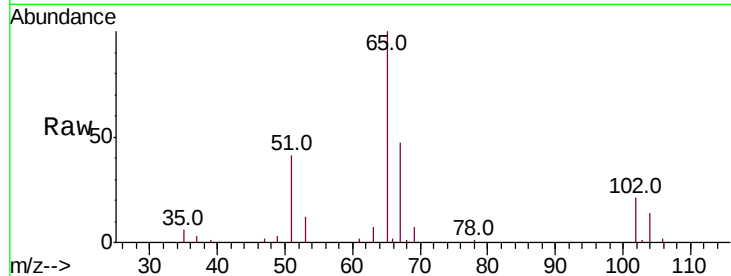
CL-01-041619-D

Tot Ion: 65 Resp: 185155

Ion Ratio Lower Upper

65 100

67 47.4 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

60000

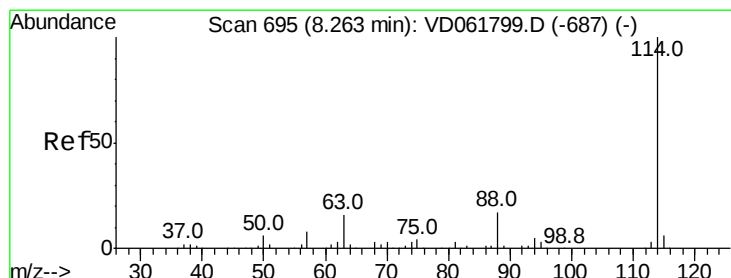
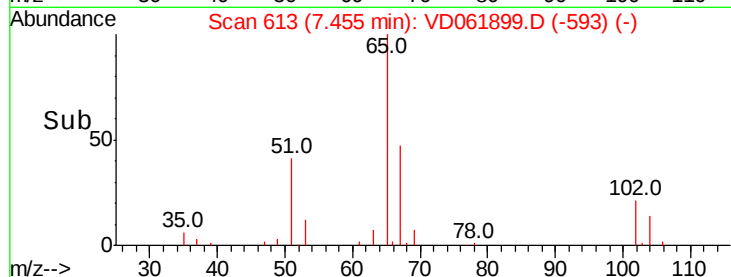
40000

20000

0

Time-->

7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. -0.00 min

Lab File: VD061899.D

Acq: 19 Apr 2019 6:26

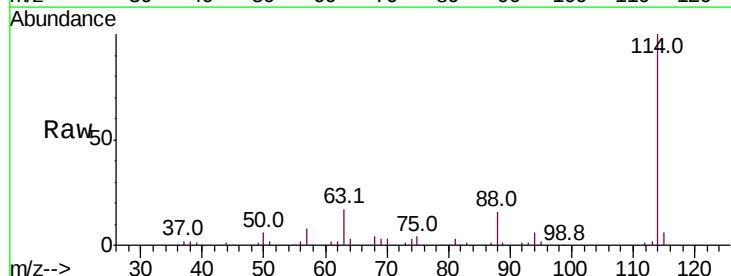
Tgt Ion: 114 Resp: 599322

Ion Ratio Lower Upper

114 100

63 16.8 0.0 32.4

88 16.4 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

300000

250000

200000

150000

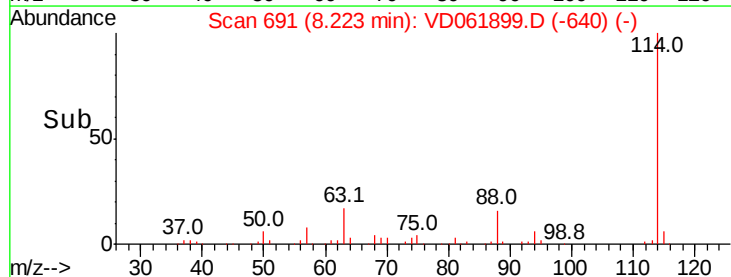
100000

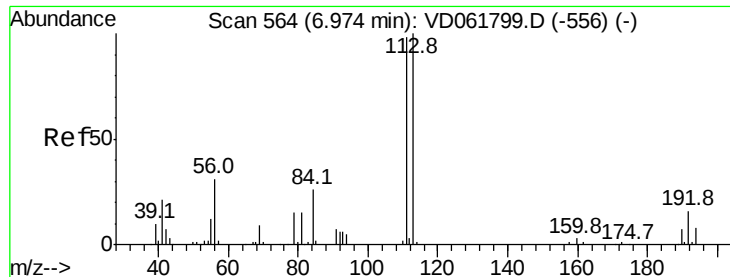
50000

0

Time-->

8.10 8.20 8.30 8.40 8.50

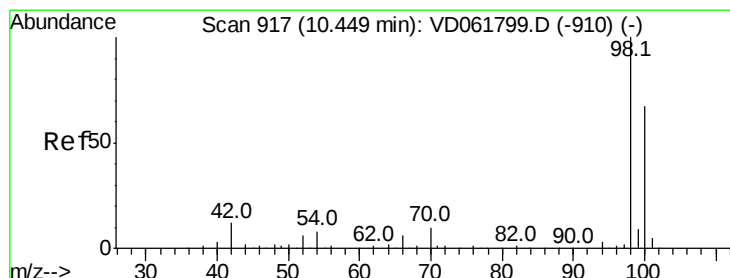
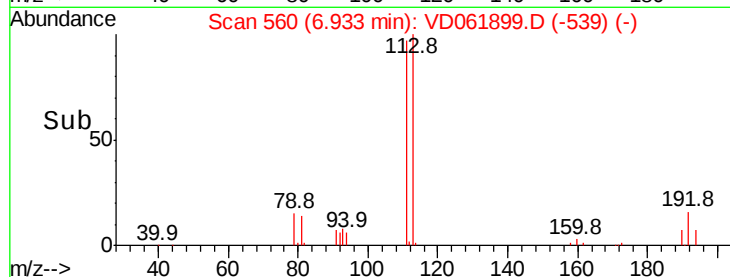
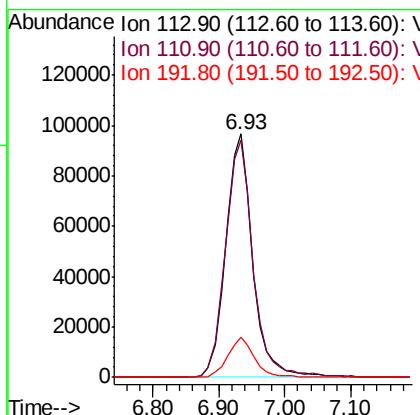
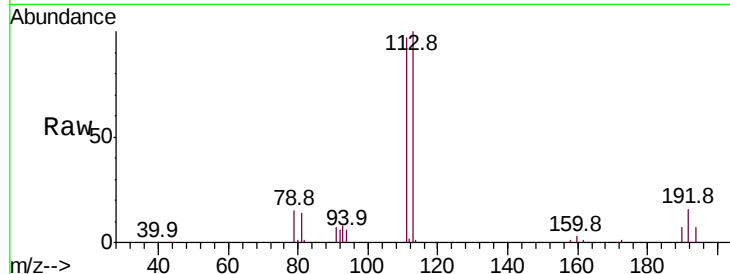




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.93 min Scan# 560  
 Delta R.T. 0.01 min  
 Lab File: VD061899.D  
 Acq: 19 Apr 2019 6:26

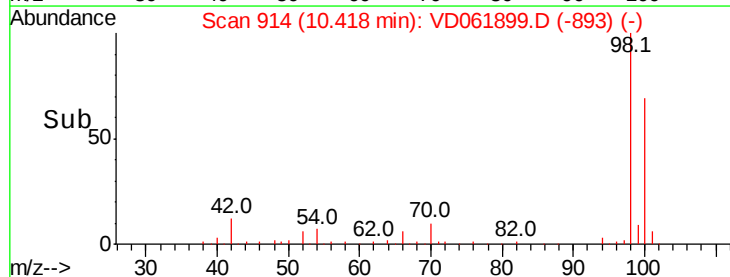
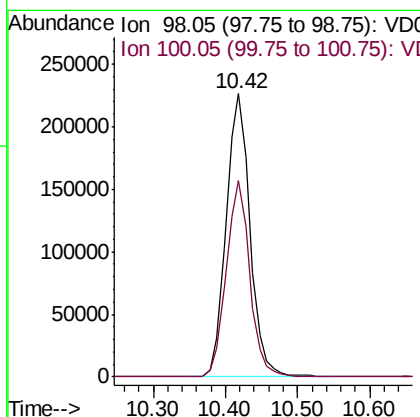
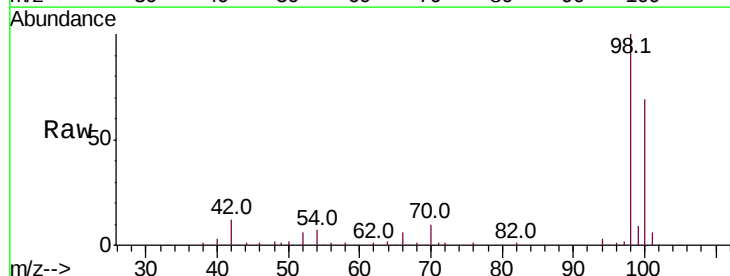
Instrument :  
 MSVOA\_D  
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 CL-01-041619-D

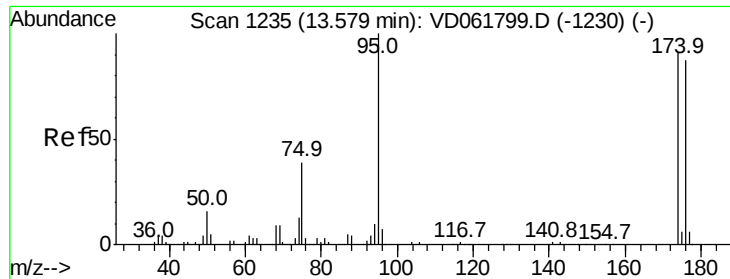
Tot Ion:113 Resp: 276047  
 Ion Ratio Lower Upper  
 113 100  
 111 97.5 78.5 117.7  
 192 16.4 13.0 19.4



#50  
 Toluene-d8  
 Concen: N.D. ug/l  
 RT: 10.42 min Scan# 914  
 Delta R.T. 0.01 min  
 Lab File: VD061899.D  
 Acq: 19 Apr 2019 6:26

Tgt Ion: 98 Resp: 519928  
 Ion Ratio Lower Upper  
 98 100  
 100 69.2 53.8 80.8





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VD061899.D

Acq: 19 Apr 2019 6:26

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-041619-D

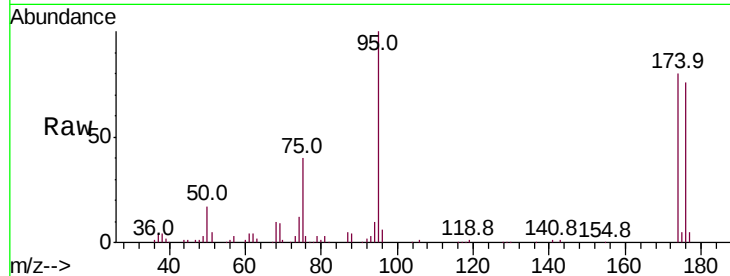
Tot Ion: 95 Resp: 203860

Ion Ratio Lower Upper

95 100

174 79.7 0.0 181.8

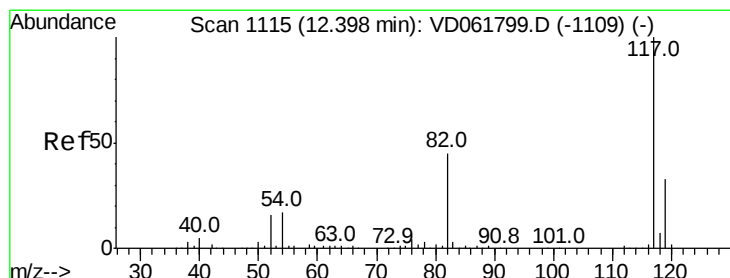
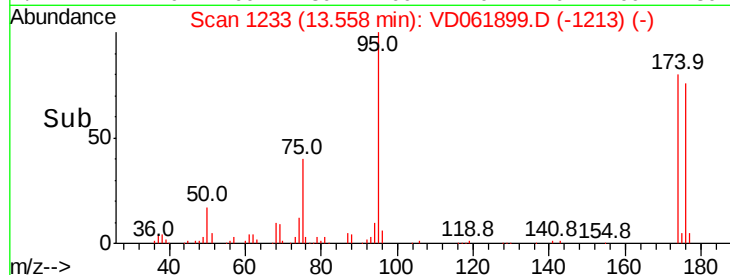
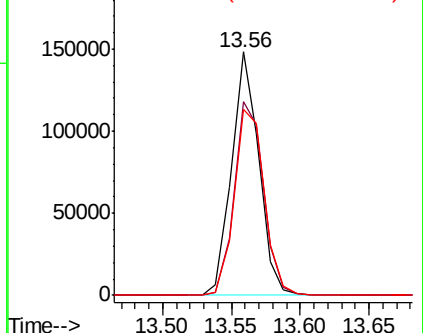
176 76.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VD061899.D

Acq: 19 Apr 2019 6:26

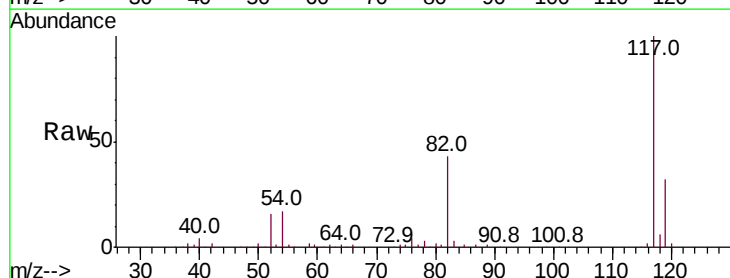
Tgt Ion: 117 Resp: 463977

Ion Ratio Lower Upper

117 100

82 43.0 36.2 54.2

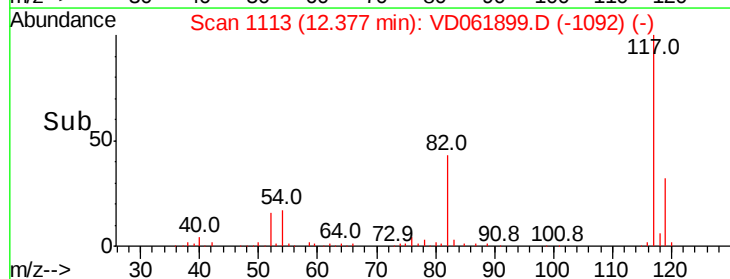
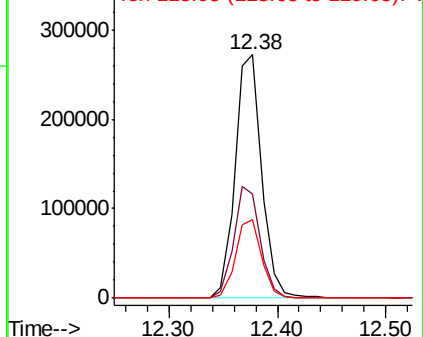
119 32.0 26.2 39.4

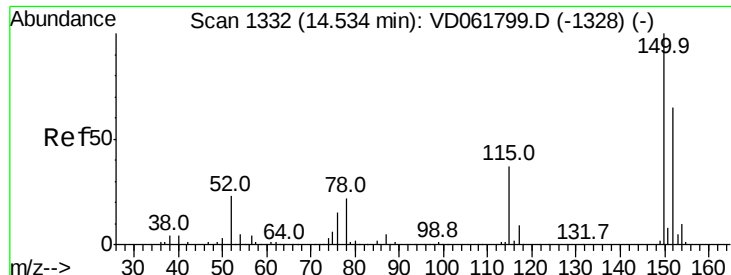


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD061899.D  
 Acq: 19 Apr 2019 6:26

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-041619-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.8  | 30.9  | 92.7  |
| 150     | 155.6 | 0.0   | 314.8 |

