

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090418\  
 Data File : VD059951.D  
 Acq On : 4 Sep 2018 18:23  
 Operator : JC/SY  
 Sample : J4724-05  
 Misc : 5.24g/5ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP1-SUT-UST-04

Quant Time: Sep 05 04:53:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.37  | 168  | 1132783  | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 7.42  | 114  | 1541174  | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1219473  | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 681739   | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.76  | 65   | 401437   | 42.05 | ug/l   | -0.04    |
| Spiked Amount               |       |      | Recovery | =     | 84.10% |          |
| 35) Dibromofluoromethane    | 6.29  | 113  | 494208   | 40.90 | ug/l   | -0.04    |
| Spiked Amount               |       |      | Recovery | =     | 81.80% |          |
| 50) Toluene-d8              | 9.43  | 98   | 1221611  | 36.43 | ug/l   | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 72.86% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 523922   | 38.47 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 76.94% |          |

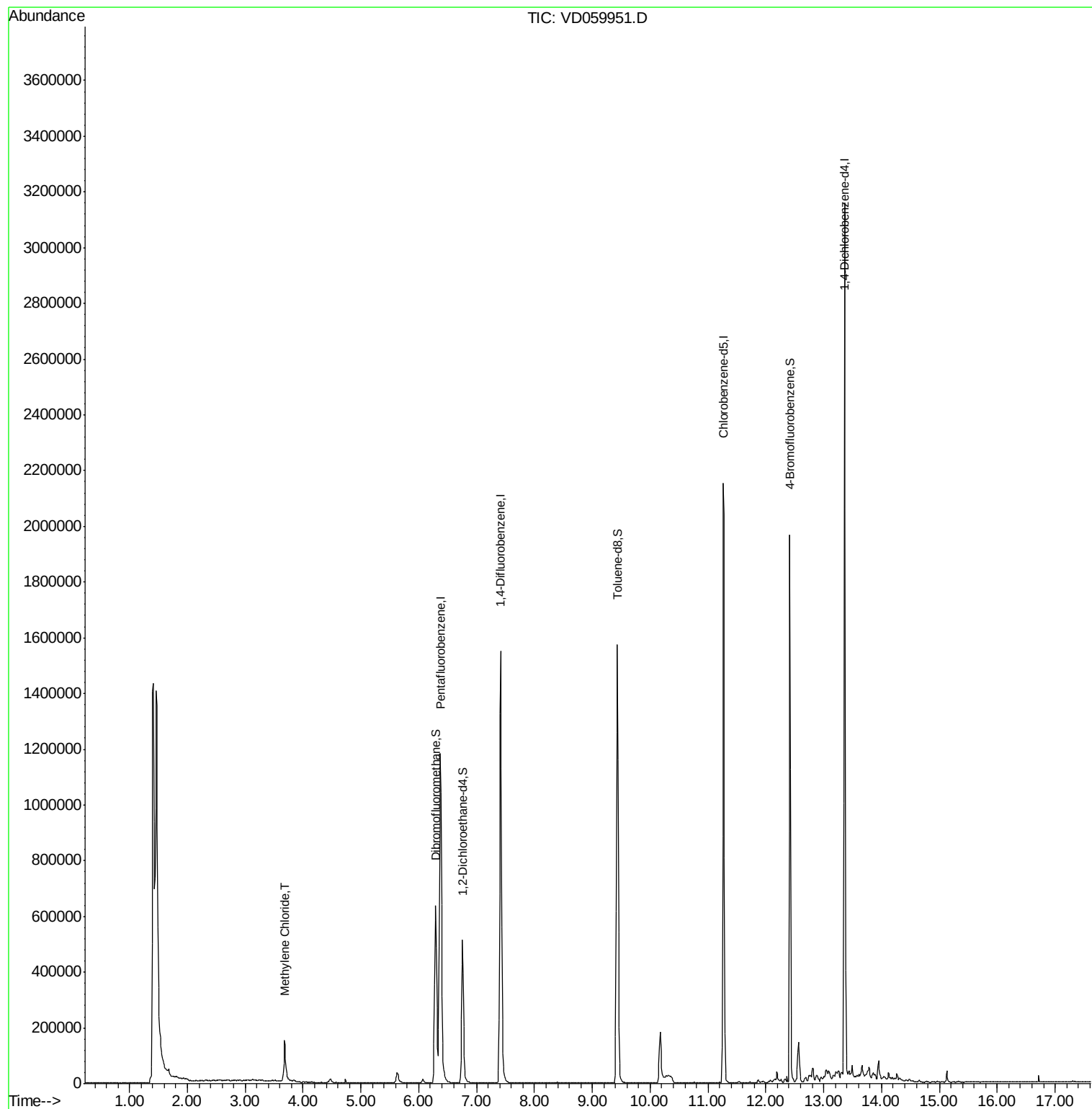
| Target Compounds       | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------|------|------|----------|------|-------|--------|
| 20) Methylene Chloride | 3.68 | 84   | 72513    | 2.73 | ug/l  | 97     |

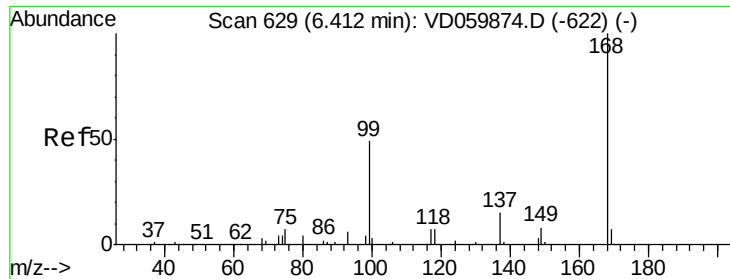
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Aug 23 03:03:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.37 min Scan# 625

Delta R.T. -0.04 min

Lab File: VD059951.D

Acq: 4 Sep 2018 18:23

Instrument :

MSVOA\_D

ClientSampleId :

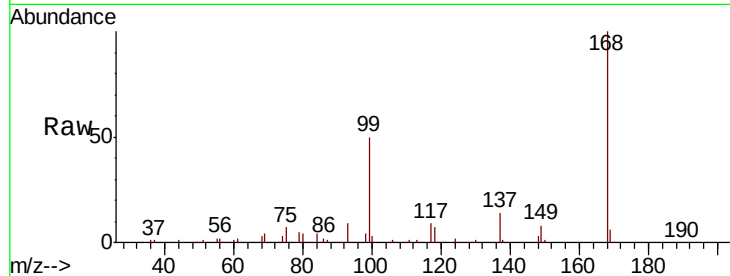
EP1-SUT-UST-04

Tot Ion:168 Resp: 1132783

Ion Ratio Lower Upper

168 100

99 49.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.37

400000

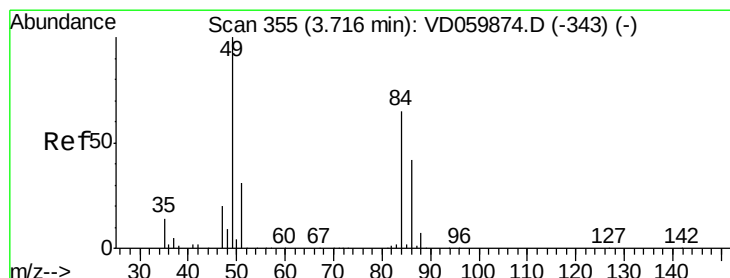
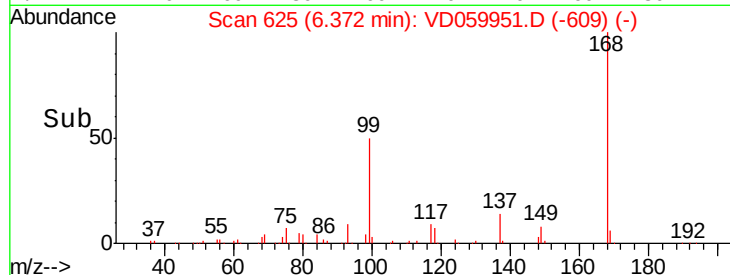
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 2.73 ug/l

RT: 3.68 min Scan# 351

Delta R.T. -0.04 min

Lab File: VD059951.D

Acq: 4 Sep 2018 18:23

Tgt Ion: 84 Resp: 72513

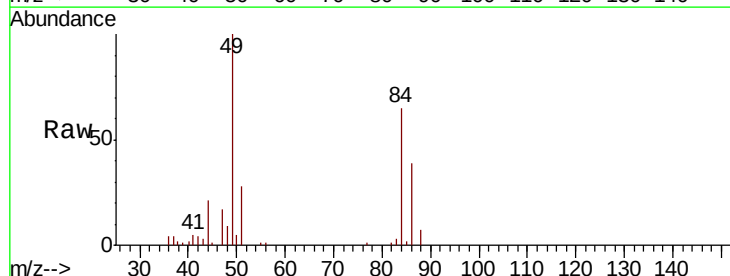
Ion Ratio Lower Upper

84 100

49 154.6 122.6 183.8

51 42.9 38.4 57.6

86 60.3 51.5 77.3



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

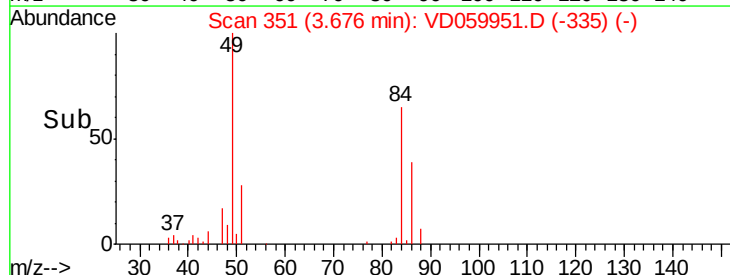
60000

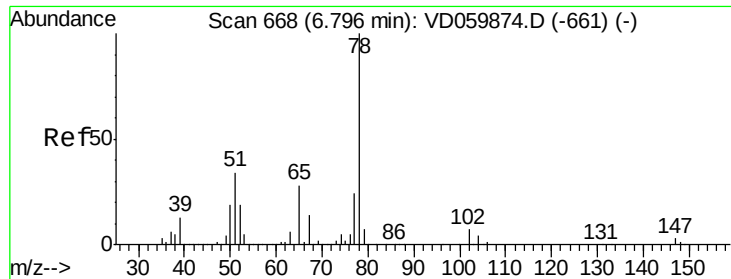
40000

20000

0

Time-->

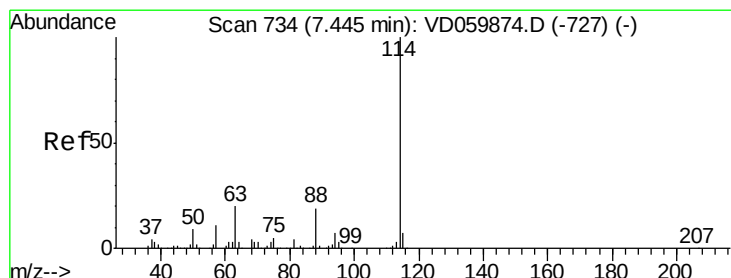
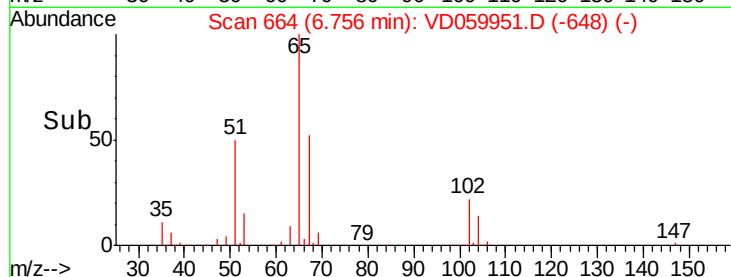
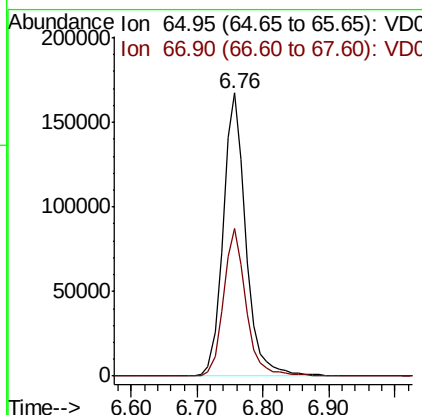
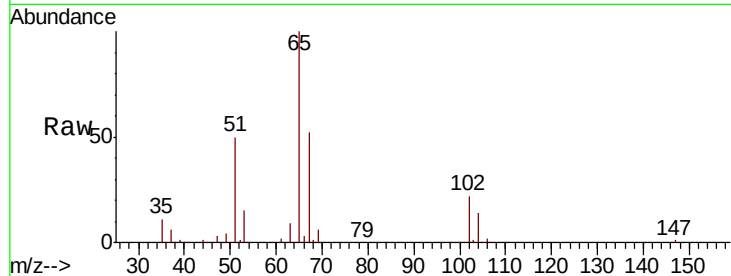




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 6.76 min Scan# 664  
 Delta R.T. -0.04 min  
 Lab File: VD059951.D  
 Acq: 4 Sep 2018 18:23

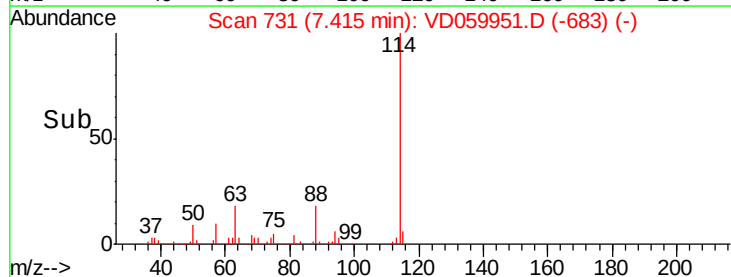
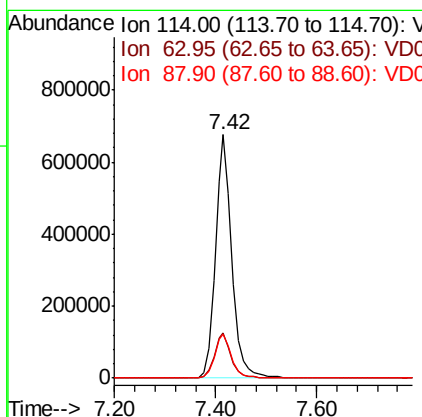
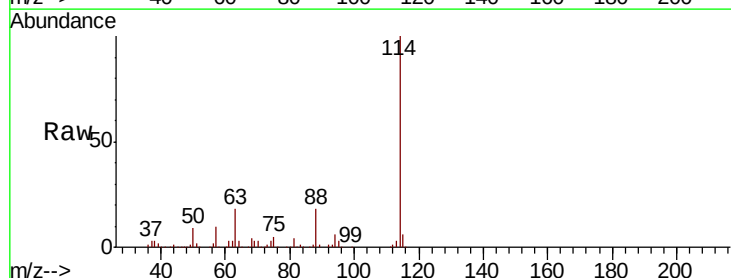
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP1-SUT-UST-04

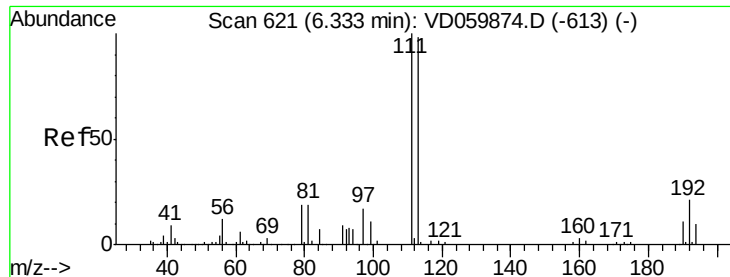
Tot Ion: 65 Resp: 401437  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 7.42 min Scan# 731  
 Delta R.T. -0.03 min  
 Lab File: VD059951.D  
 Acq: 4 Sep 2018 18:23

Tgt Ion: 114 Resp: 1541174  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 39.4  
 88 18.2 0.0 37.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.29 min Scan# 617

Delta R.T. -0.04 min

Lab File: VD059951.D

Acq: 4 Sep 2018 18:23

Instrument :

MSVOA\_D

ClientSampleId :

EP1-SUT-UST-04

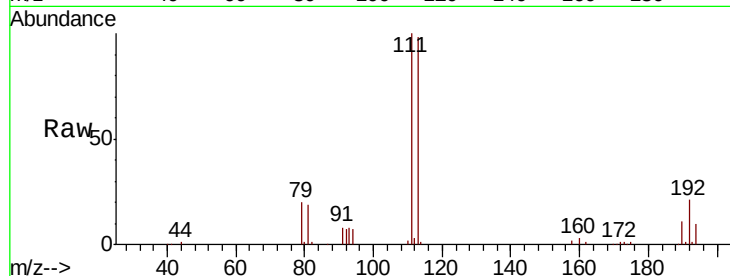
Tot Ion:113 Resp: 494208

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

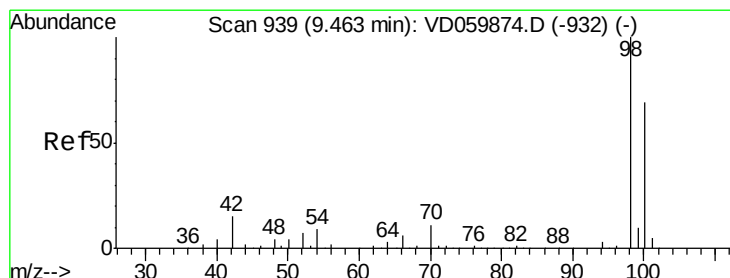
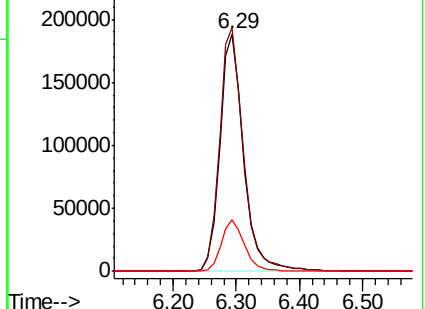
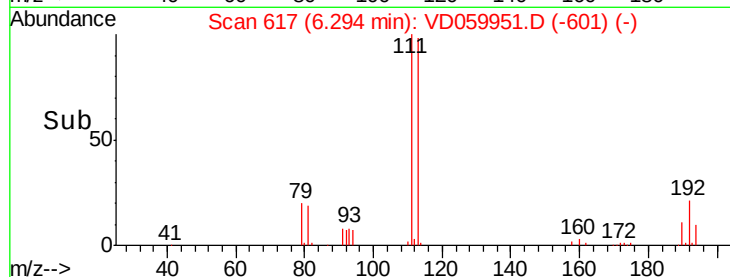
192 21.7 17.0 25.6



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: 9.43 min Scan# 936

Delta R.T. -0.03 min

Lab File: VD059951.D

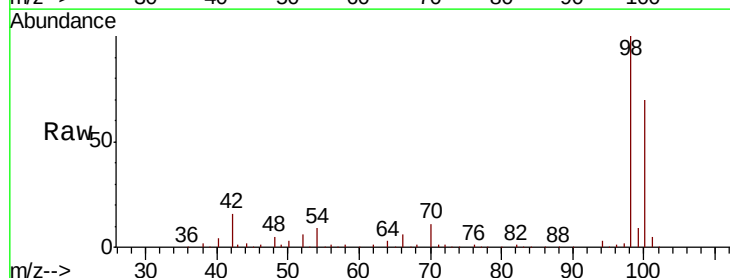
Acq: 4 Sep 2018 18:23

Tgt Ion: 98 Resp: 1221611

Ion Ratio Lower Upper

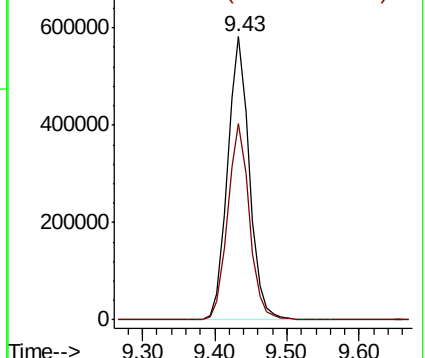
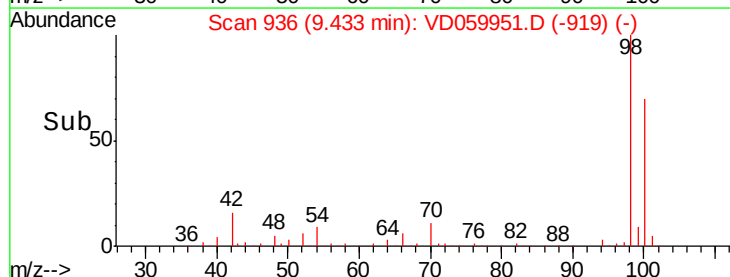
98 100

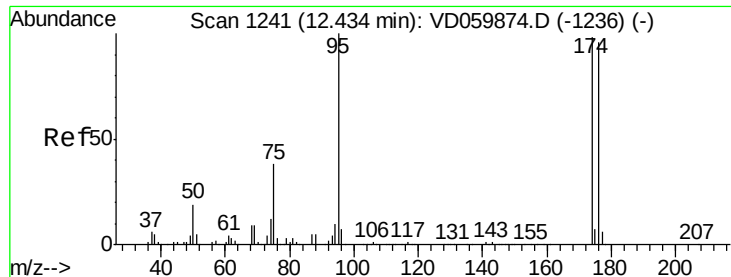
100 69.5 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VD059951.D

Acq: 4 Sep 2018 18:23

Instrument :

MSVOA\_D

ClientSampleId :

EP1-SUT-UST-04

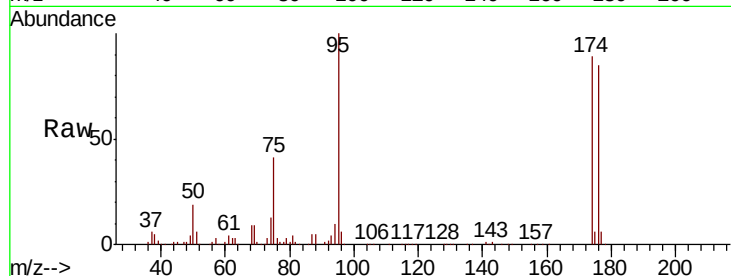
Tot Ion: 95 Resp: 523922

Ion Ratio Lower Upper

95 100

174 88.5 0.0 195.6

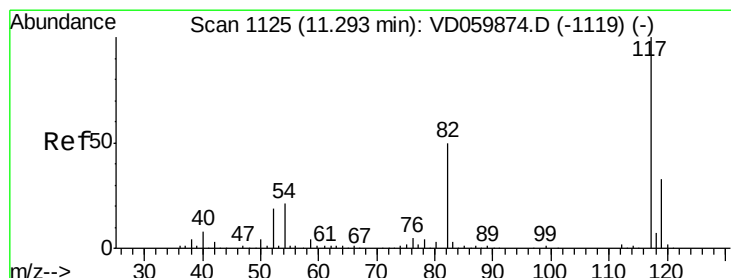
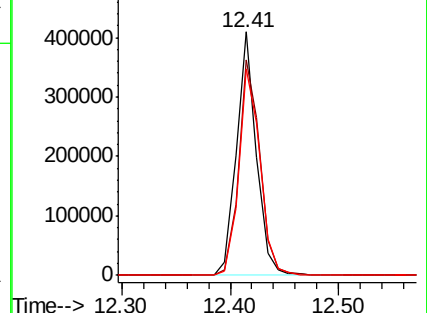
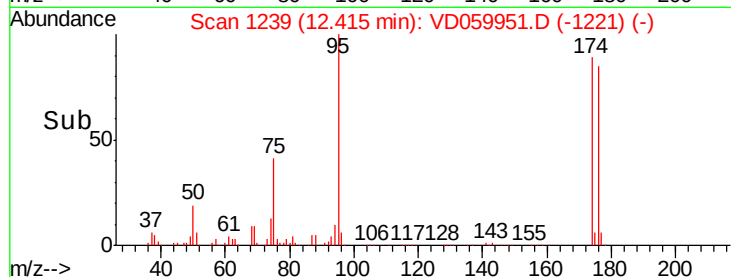
176 84.9 0.0 191.2



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: 50.00 ug/l

RT: 11.27 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VD059951.D

Acq: 4 Sep 2018 18:23

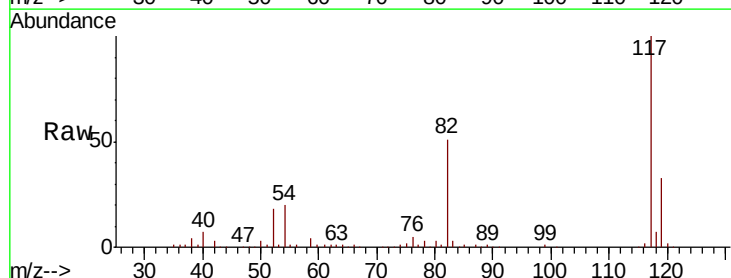
Tgt Ion: 117 Resp: 1219473

Ion Ratio Lower Upper

117 100

82 51.0 40.1 60.1

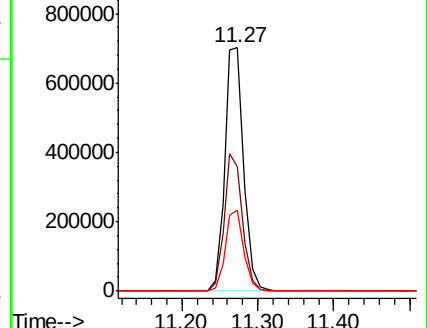
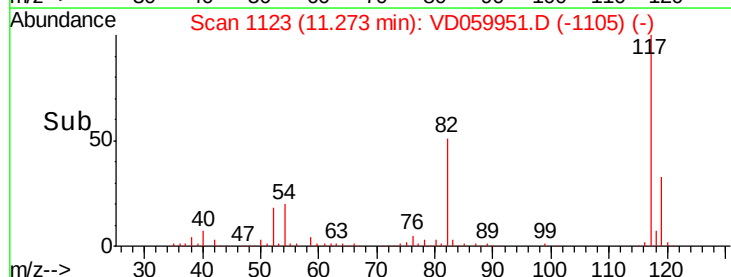
119 33.3 26.7 40.1

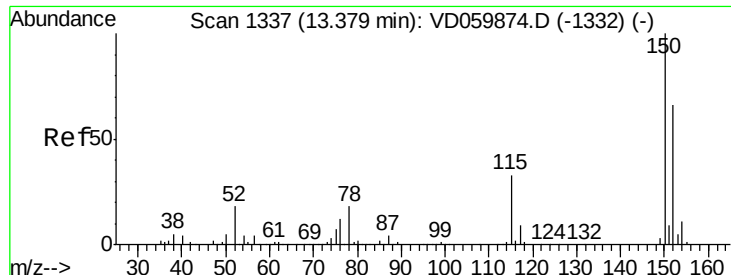


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.36 min Scan# 1335

Delta R.T. -0.02 min

Lab File: VD059951.D

Acq: 4 Sep 2018 18:23

Instrument :

MSVOA\_D

ClientSampleId :

EP1-SUT-UST-04

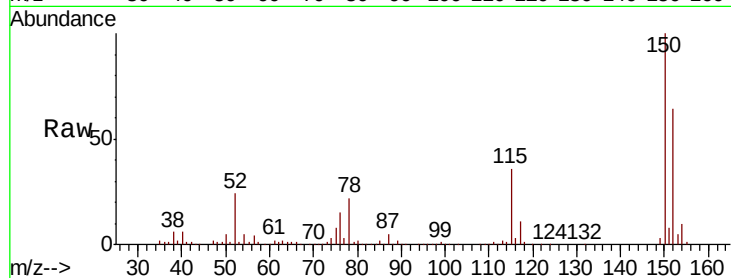
Tot Ion:152 Resp: 681739

Ion Ratio Lower Upper

152 100

115 56.2 25.7 77.0

150 156.7 0.0 310.2



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

