

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092718\  
 Data File : VW005695.D  
 Acq On : 27 Sep 2018 13:08  
 Operator : VA/AP  
 Sample : J5077-04RE  
 Misc : 6.10G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PARCEL-190-092418-2RE

Quant Time: Sep 28 01:53:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 196945   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 311444   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 250161   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 81472    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 135900   | 58.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 117.14% |      |
| 35) Dibromofluoromethane    | 7.89   | 113 | 110768   | 56.56 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 113.12% |      |
| 50) Toluene-d8              | 10.33  | 98  | 385989   | 48.40 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.80%  |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 101090   | 34.26 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 68.52%  |      |

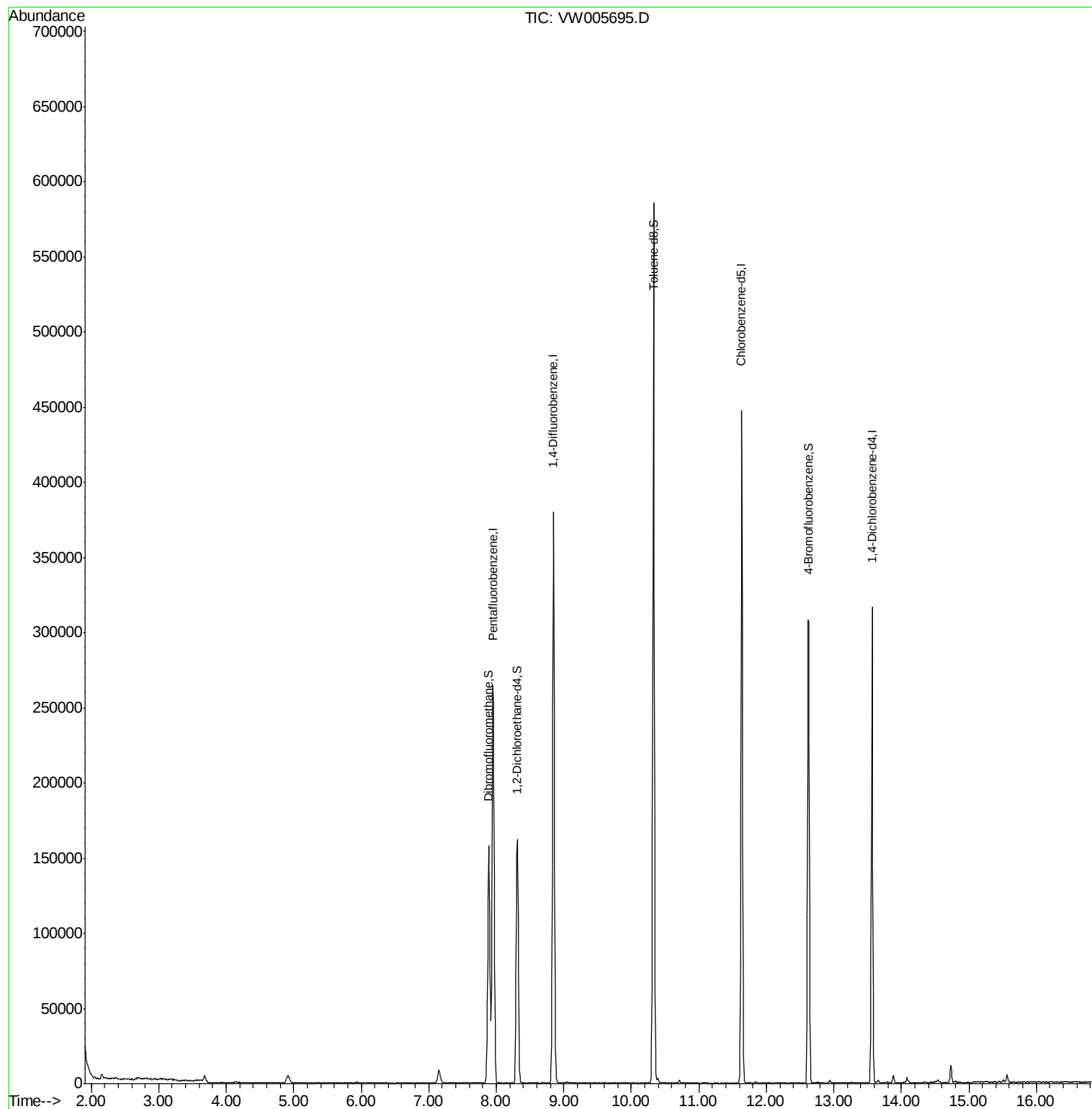
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 21 09:05:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005695.D

Acq: 27 Sep 2018 13:08

Instrument :

MSVOA\_W

ClientSampleId :

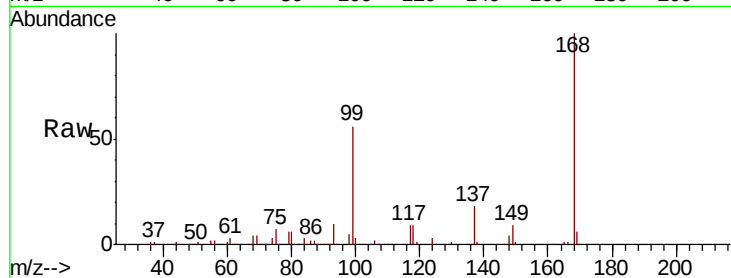
PARCEL-190-092418-2RE

Tot Ion:168 Resp: 196945

Ion Ratio Lower Upper

168 100

99 56.2 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

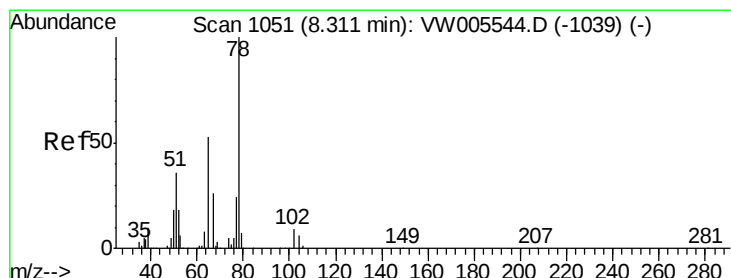
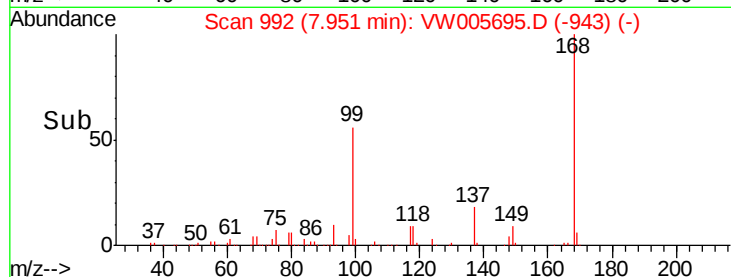
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 58.574 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005695.D

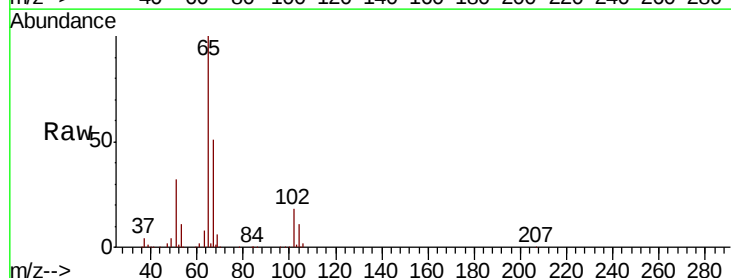
Acq: 27 Sep 2018 13:08

Tgt Ion: 65 Resp: 135900

Ion Ratio Lower Upper

65 100

67 50.4 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

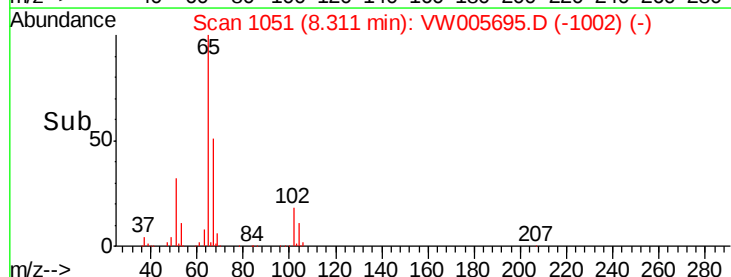
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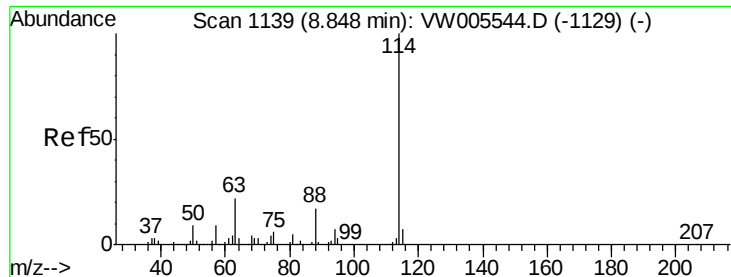
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Time-->

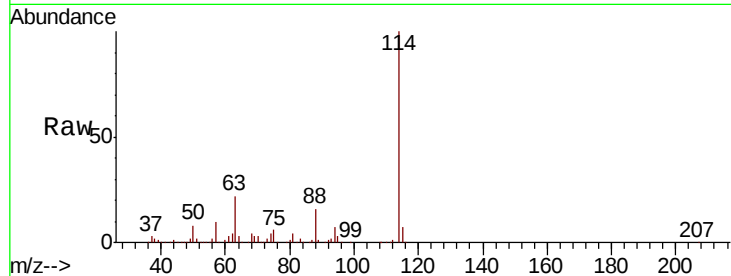




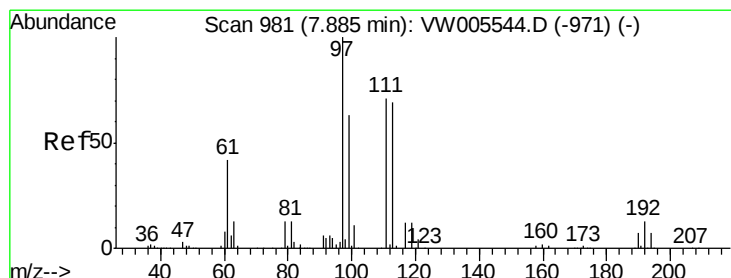
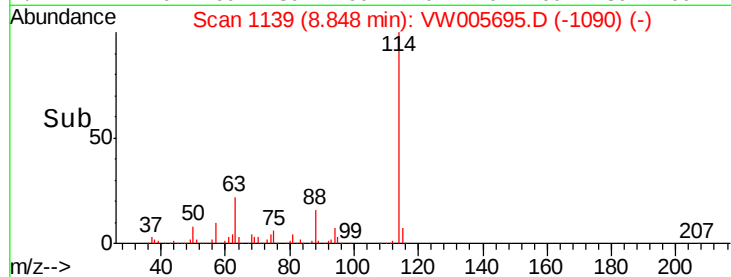
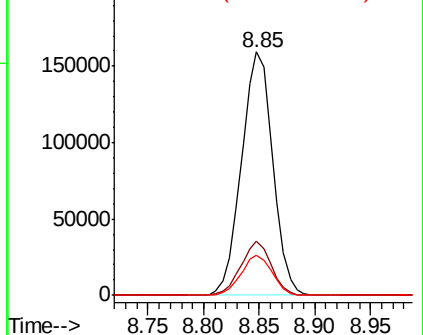
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW005695.D  
 Acq: 27 Sep 2018 13:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PARCEL-190-092418-2RE

|             |       |        |
|-------------|-------|--------|
| Tot Ion:114 | Resp: | 311444 |
| Ion Ratio   | Lower | Upper  |
| 114 100     |       |        |
| 63 22.1     | 0.0   | 43.0   |
| 88 16.4     | 0.0   | 33.0   |

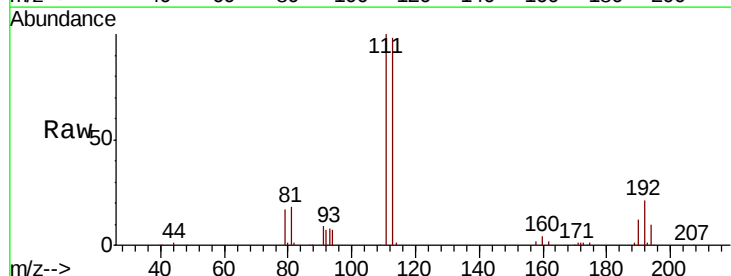


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

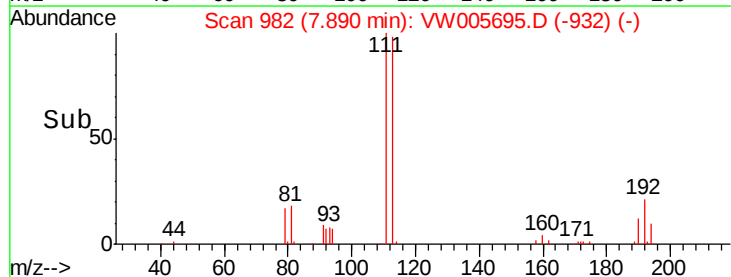
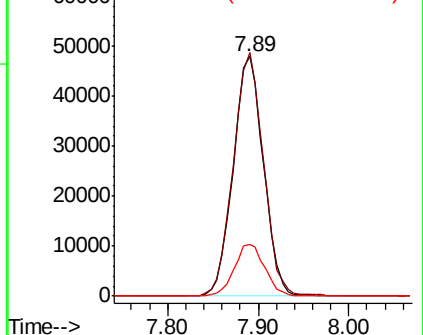


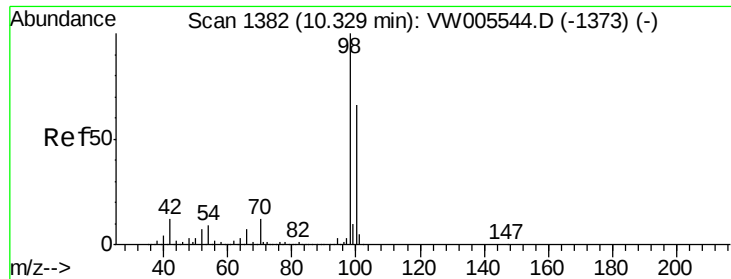
#35  
 Dibromofluoromethane  
 Concen: 56.556 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.01 min  
 Lab File: VW005695.D  
 Acq: 27 Sep 2018 13:08

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:113 | Resp: | 110768 |
| Ion Ratio   | Lower | Upper  |
| 113 100     |       |        |
| 111 101.2   | 82.6  | 123.8  |
| 192 21.6    | 17.0  | 25.4   |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 48.401 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005695.D

Acq: 27 Sep 2018 13:08

Instrument :

MSVOA\_W

ClientSampleId :

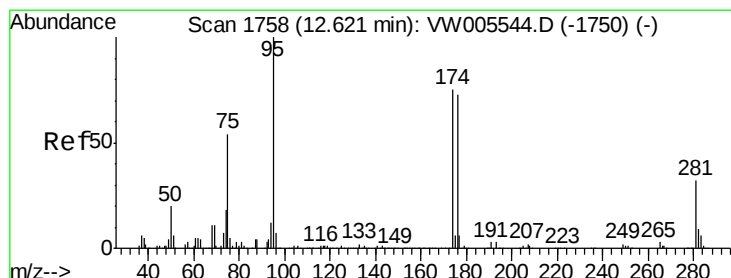
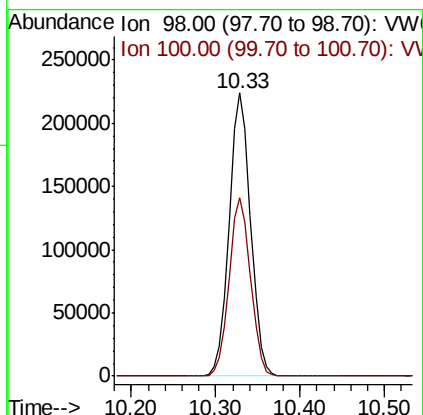
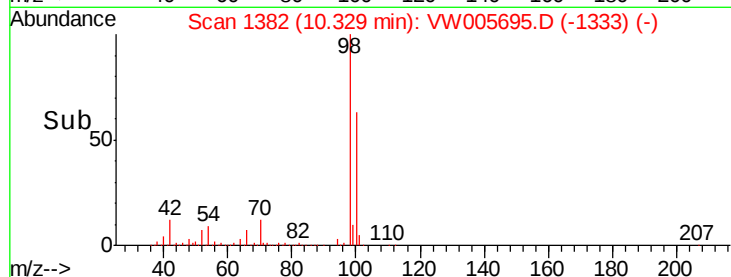
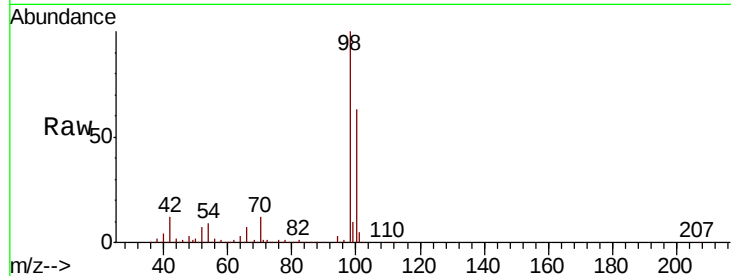
PARCEL-190-092418-2RE

Tot Ion: 98 Resp: 385989

Ion Ratio Lower Upper

98 100

100 63.1 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 34.258 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005695.D

Acq: 27 Sep 2018 13:08

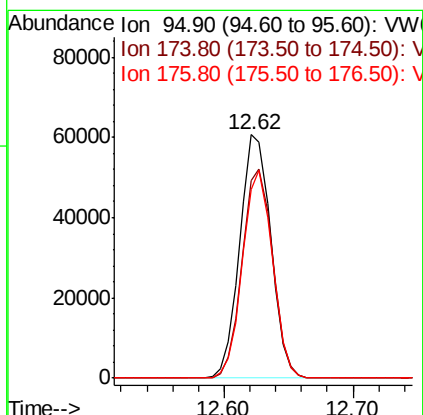
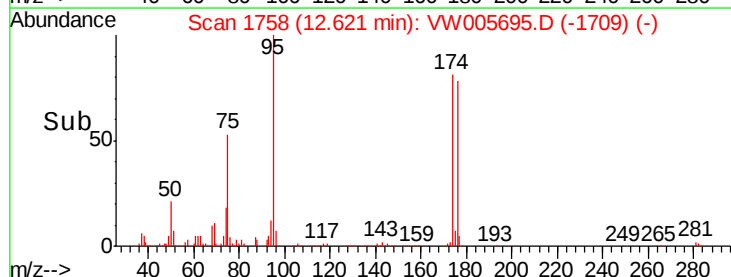
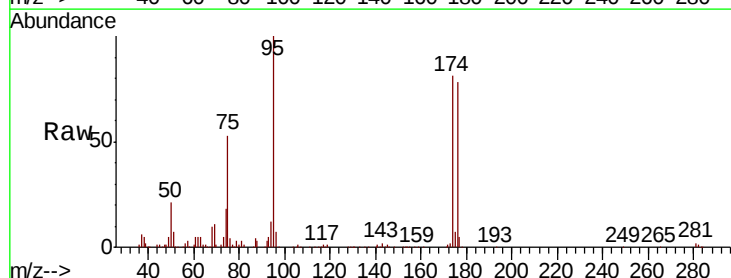
Tgt Ion: 95 Resp: 101090

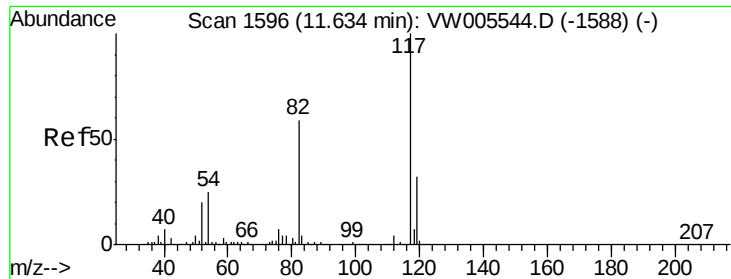
Ion Ratio Lower Upper

95 100

174 84.5 0.0 163.8

176 82.2 0.0 158.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.01 min

Lab File: VW005695.D

Acq: 27 Sep 2018 13:08

Instrument :

MSVOA\_W

ClientSampleId :

PARCEL-190-092418-2RE

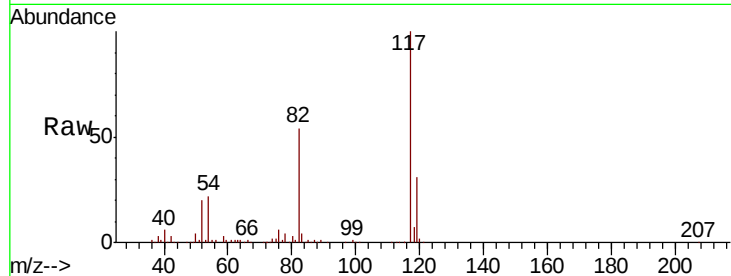
Tot Ion:117 Resp: 250161

Ion Ratio Lower Upper

117 100

82 54.4 46.9 70.3

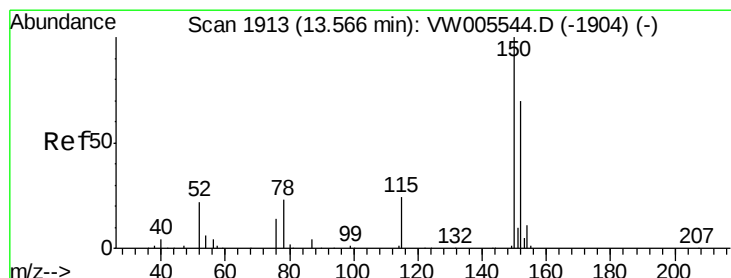
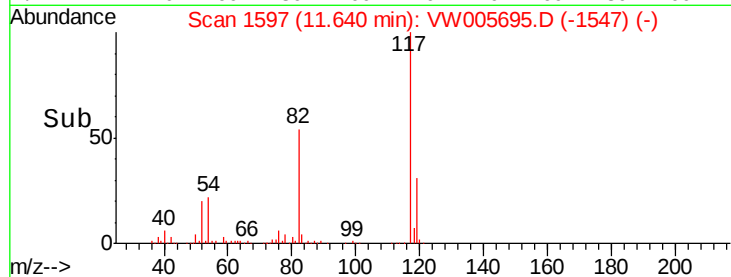
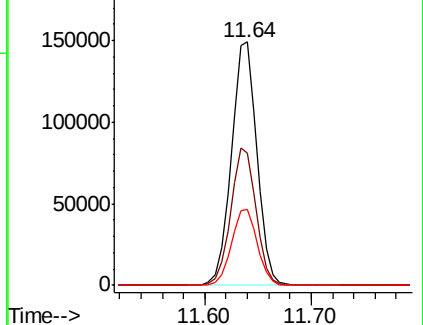
119 31.4 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005695.D

Acq: 27 Sep 2018 13:08

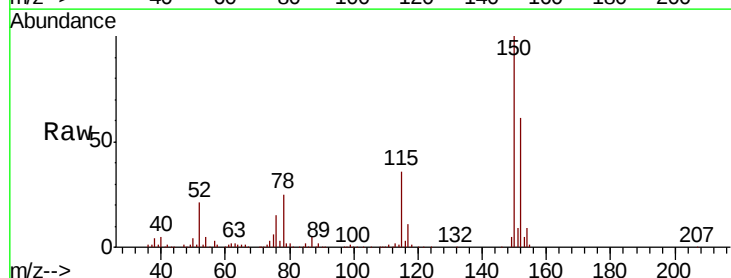
Tgt Ion:152 Resp: 81472

Ion Ratio Lower Upper

152 100

115 58.1 30.0 90.0

150 158.4 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

