

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121718\  
 Data File : VW007535.D  
 Acq On : 14 Dec 2018 15:07  
 Operator : SY/AP  
 Sample : J6371-05  
 Misc : 4.82G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EB04-14-16

Quant Time: Dec 15 01:06:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 96529    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 163046   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 148746   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 71644    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 50122    | 46.80 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.60% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 44968    | 45.56 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.12% |      |
| 50) Toluene-d8              | 10.32  | 98  | 171444   | 46.33 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.66% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 64747    | 47.59 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.18% |      |

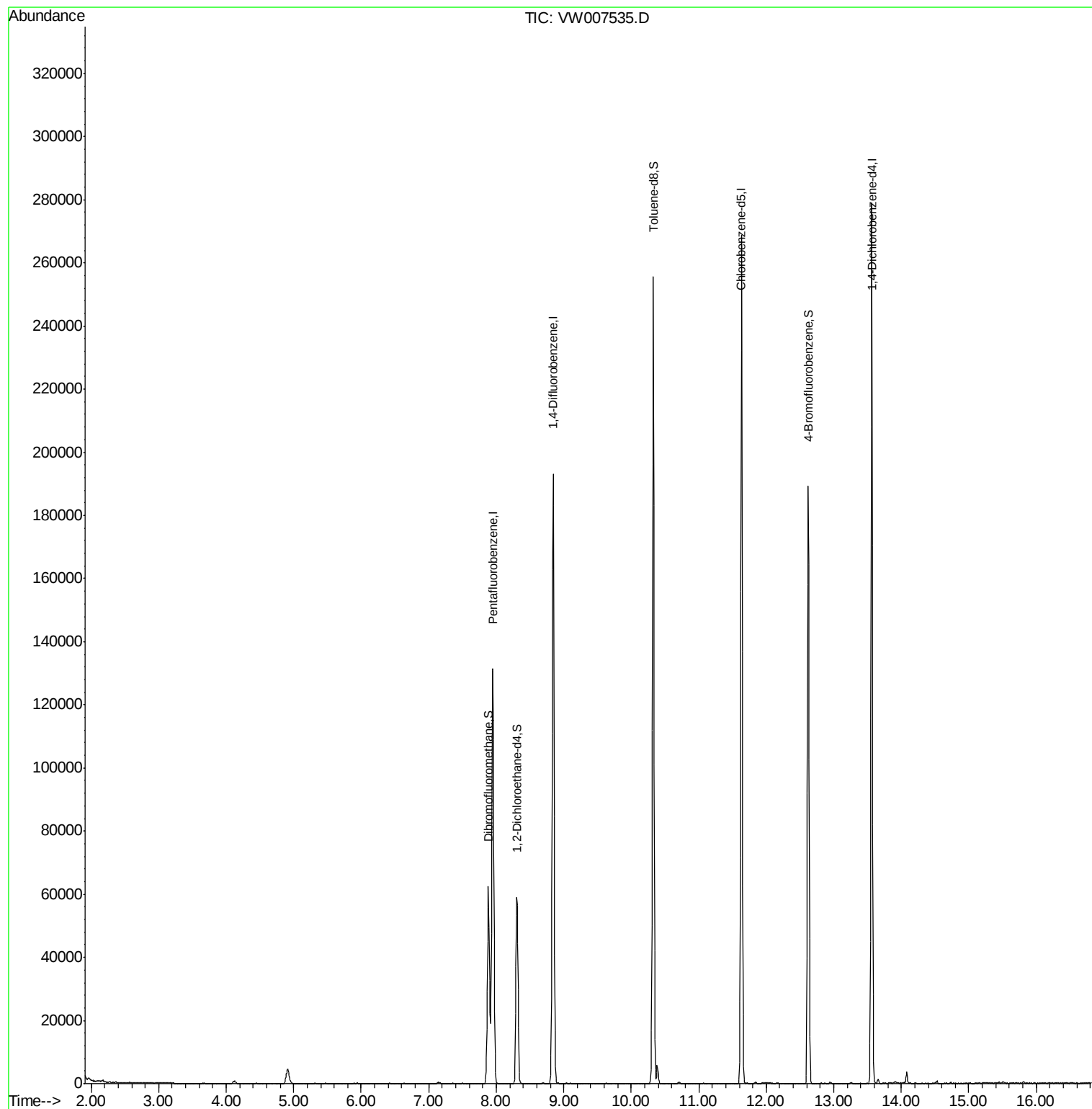
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 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: VW007535.D

Acq: 14 Dec 2018 15:07

Instrument :

MSVOA\_W

ClientSampleId :

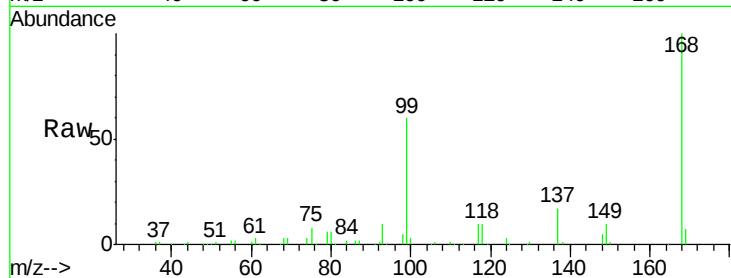
EB04-14-16

Tgt Ion:168 Resp: 96529

Ion Ratio Lower Upper

168 100

99 59.7 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

50000

40000

30000

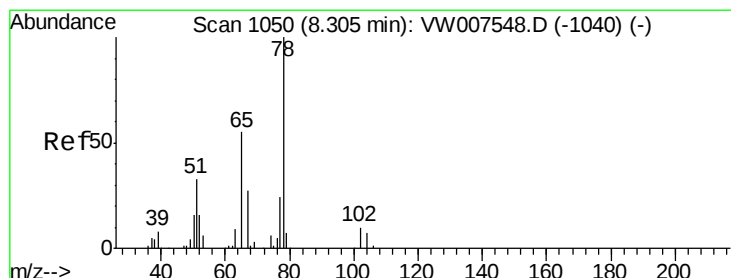
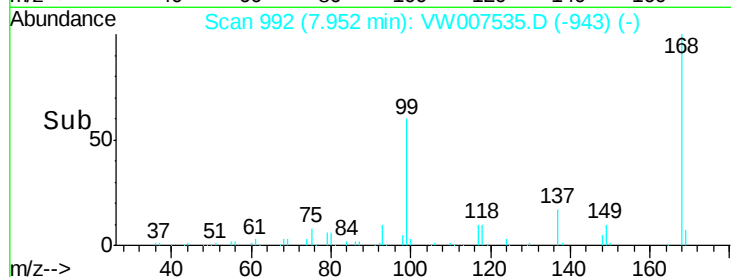
20000

10000

0

7.90 8.00

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.803 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007535.D

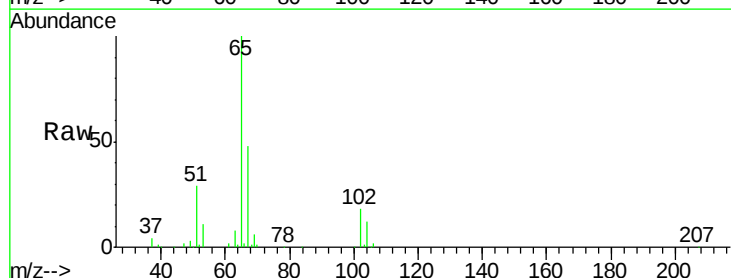
Acq: 14 Dec 2018 15:07

Tgt Ion: 65 Resp: 50122

Ion Ratio Lower Upper

65 100

67 48.9 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

25000

20000

15000

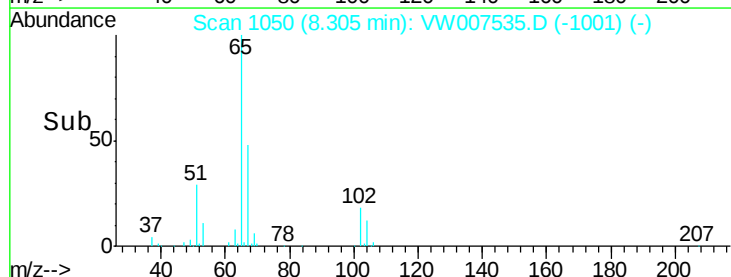
10000

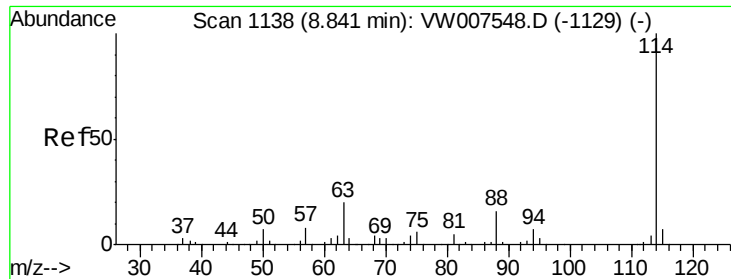
5000

0

8.20 8.25 8.30 8.35 8.40

Time-->

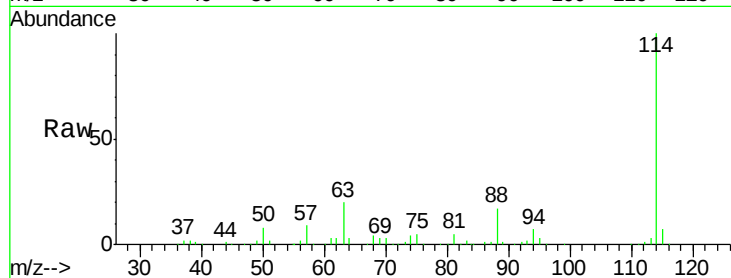




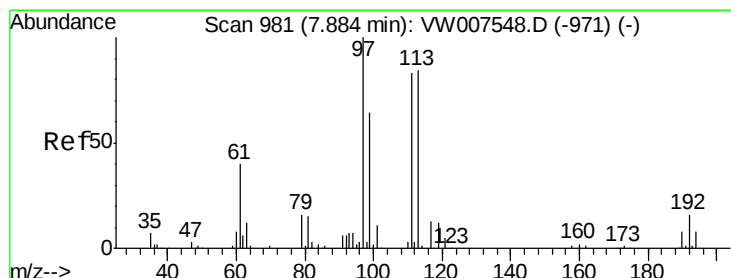
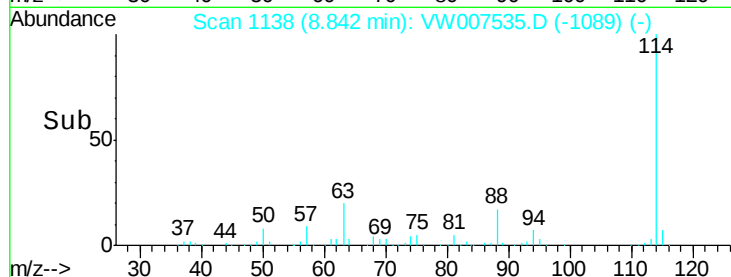
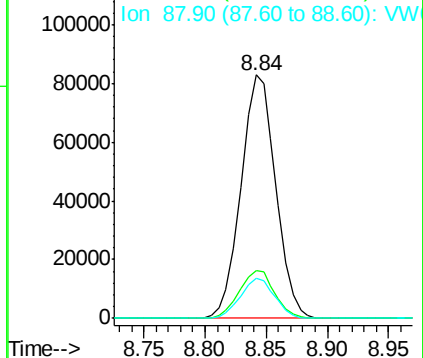
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007535.D  
 Acq: 14 Dec 2018 15:07

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EB04-14-16

Tgt Ion:114 Resp: 163046  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 39.6  
 88 16.7 0.0 31.4

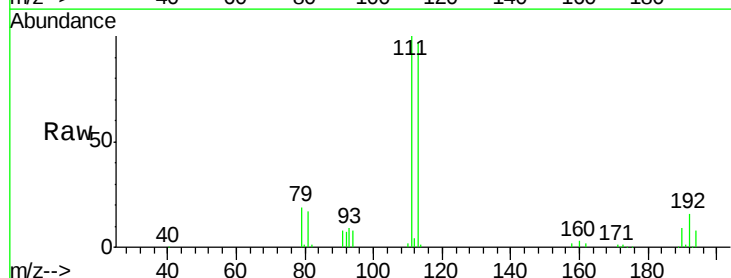


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

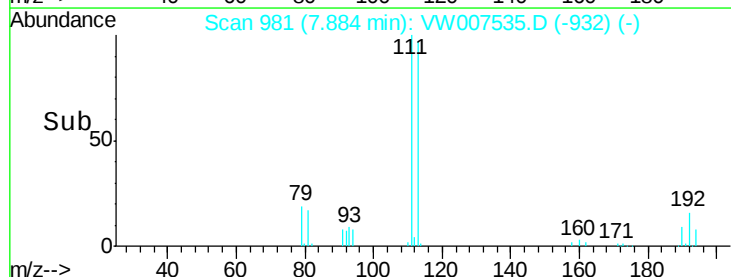
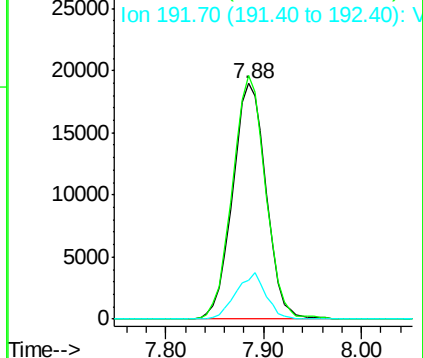


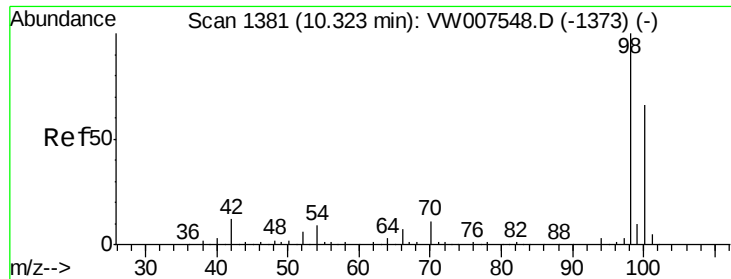
#35  
 Dibromofluoromethane  
 Concen: 45.561 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007535.D  
 Acq: 14 Dec 2018 15:07

Tgt Ion:113 Resp: 44968  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.1 121.7  
 192 17.6 14.6 21.8



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: 46.328 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007535.D

Acq: 14 Dec 2018 15:07

Instrument :

MSVOA\_W

ClientSampleId :

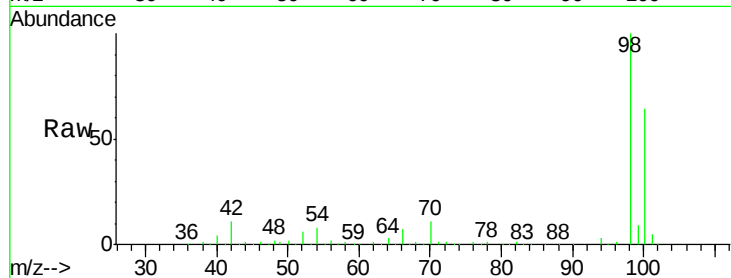
EB04-14-16

Tgt Ion: 98 Resp: 171444

Ion Ratio Lower Upper

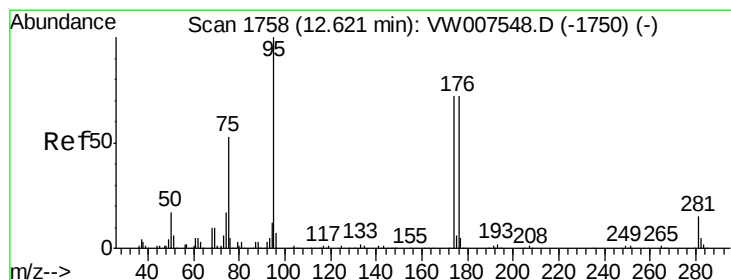
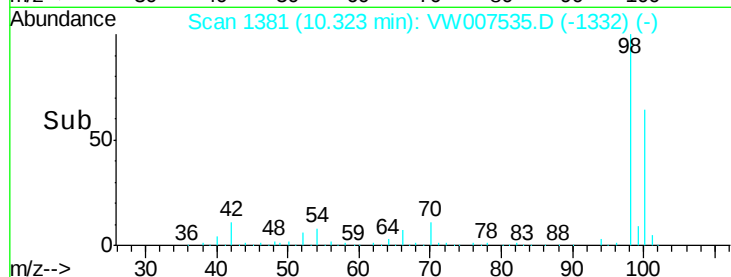
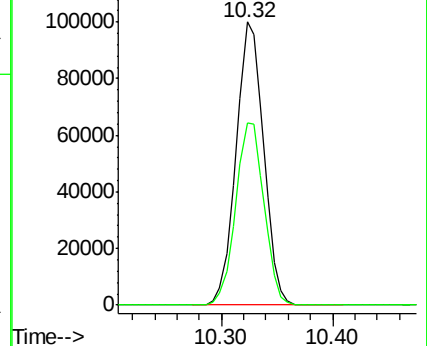
98 100

100 66.0 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 47.586 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007535.D

Acq: 14 Dec 2018 15:07

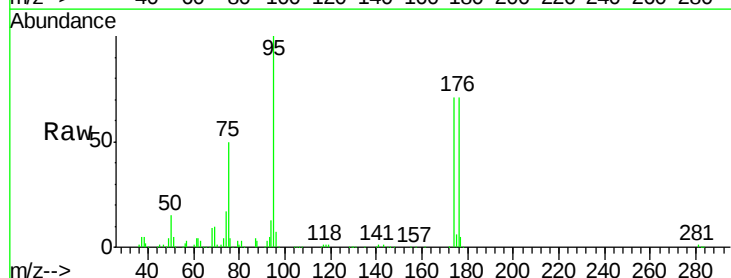
Tgt Ion: 95 Resp: 64747

Ion Ratio Lower Upper

95 100

174 73.7 0.0 147.2

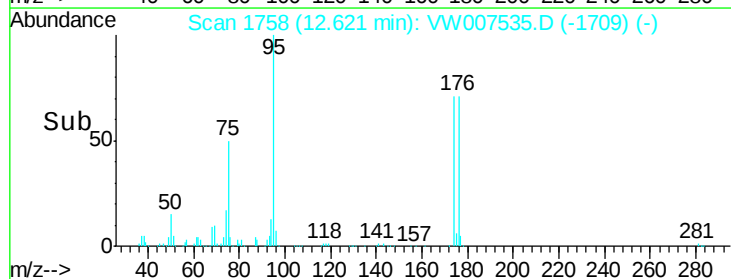
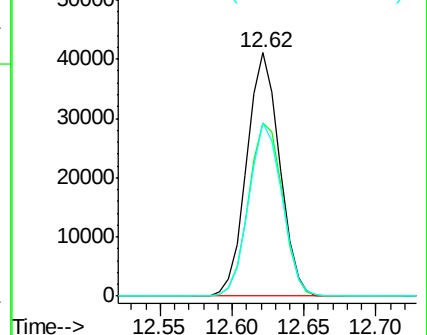
176 71.8 0.0 138.8

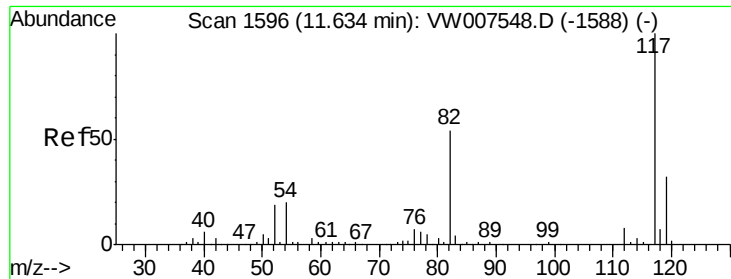


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW

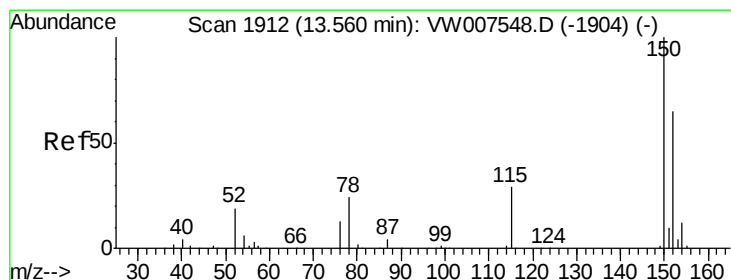
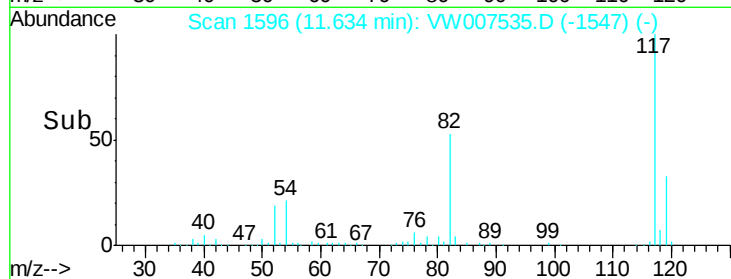
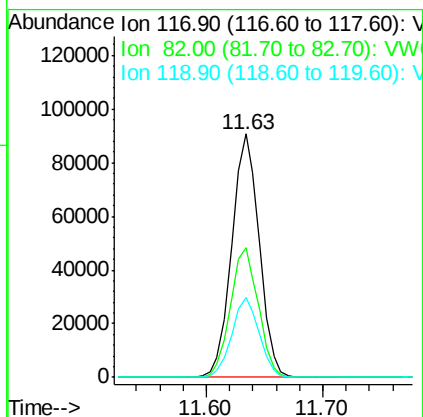
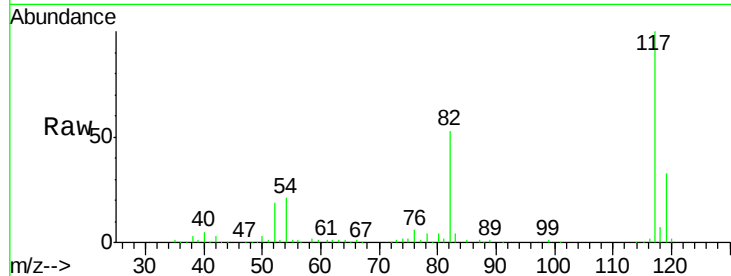




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.63 min Scan# 1596  
 Delta R.T. 0.00 min  
 Lab File: VW007535.D  
 Acq: 14 Dec 2018 15:07

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EB04-14-16

Tgt Ion:117 Resp: 148746  
 Ion Ratio Lower Upper  
 117 100  
 82 53.4 42.3 63.5  
 119 32.5 23.0 34.6



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.56 min Scan# 1912  
 Delta R.T. 0.00 min  
 Lab File: VW007535.D  
 Acq: 14 Dec 2018 15:07

Tgt Ion:152 Resp: 71644  
 Ion Ratio Lower Upper  
 152 100  
 115 61.4 31.4 94.2  
 150 158.9 0.0 358.4

