

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090419\  
 Data File : VW012602.D  
 Acq On : 04 Sep 2019 18:23  
 Operator : SY/VA  
 Sample : K4525-13  
 Misc : 5.13G/5ML/MSVOA W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-B3-(0)

Quant Time: Sep 05 07:14:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

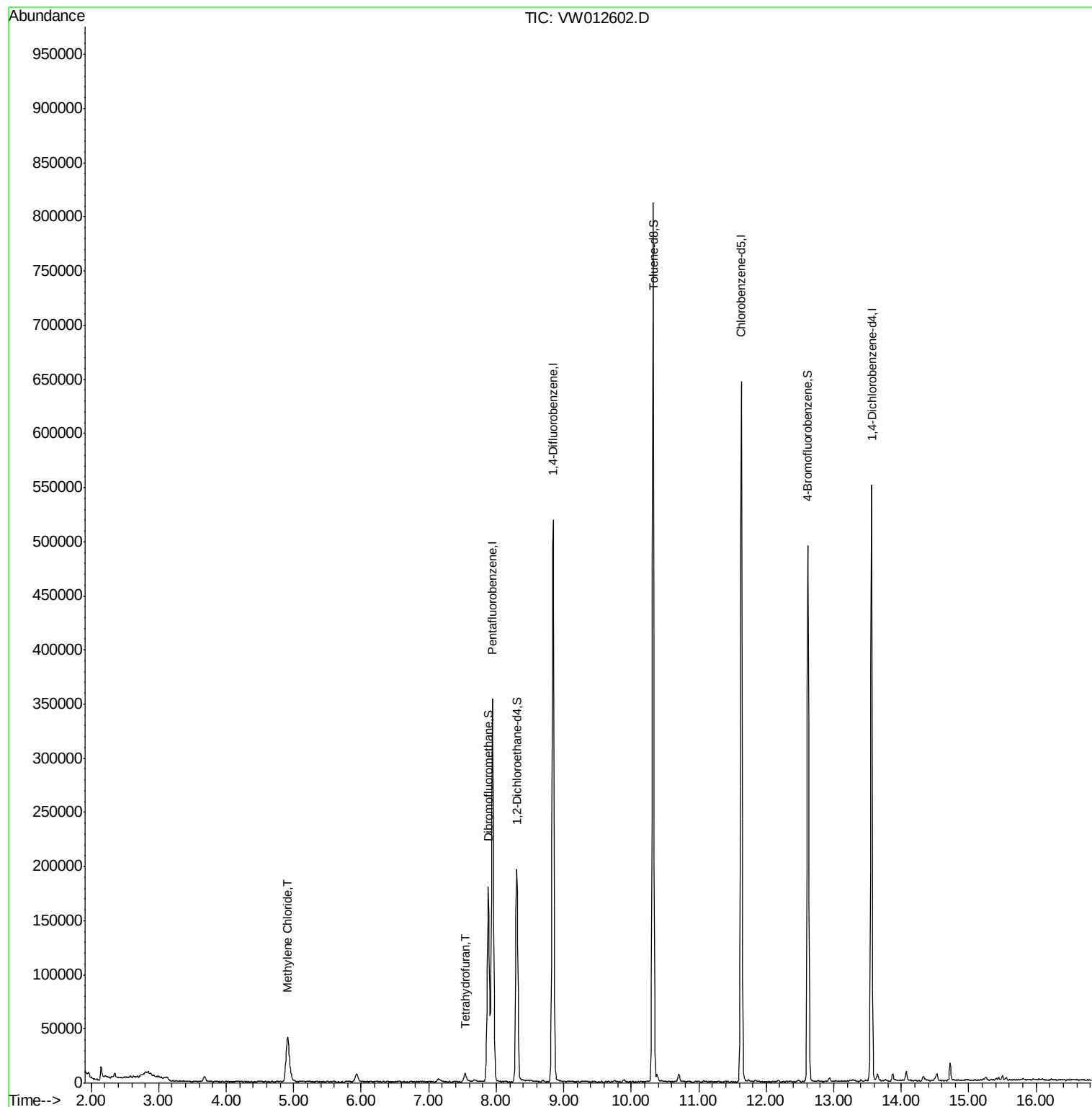
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 248575   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 402348   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 339358   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 137543   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 164536   | 55.68  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 111.36% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 125058   | 52.07  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 104.14% |          |
| 50) Toluene-d8              | 10.32 | 98   | 494369   | 50.77  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.54% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 156191   | 45.50  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 91.00%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 20) Methylene Chloride      | 4.91  | 84   | 31766    | 11.124 | ug/l    | 94       |
| 29) Tetrahydrofuran         | 7.54  | 42   | 6967     | 11.313 | ug/l    | 99       |

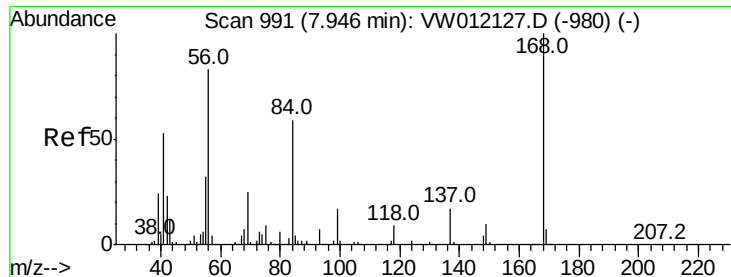
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012602.D

Acq: 04 Sep 2019 18:23

Instrument :

MSVOA\_W

ClientSampleId :

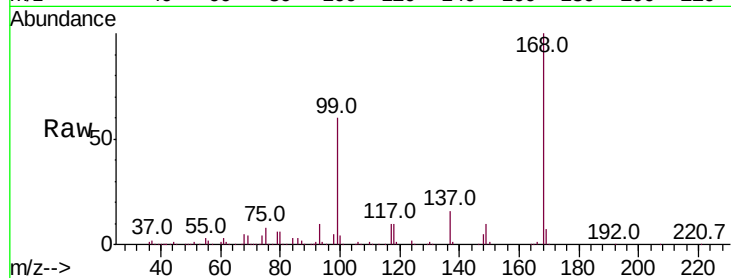
T9-12-13-B3-(0)

Tot Ion:168 Resp: 248575

Ion Ratio Lower Upper

168 100

99 59.6 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

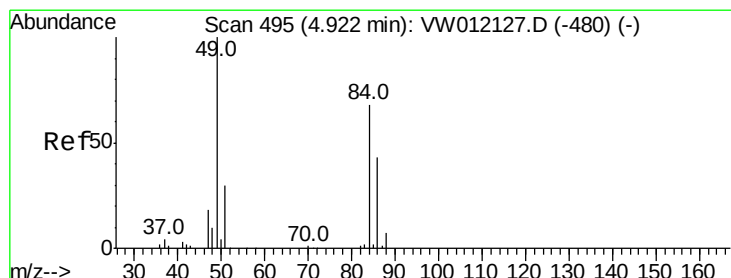
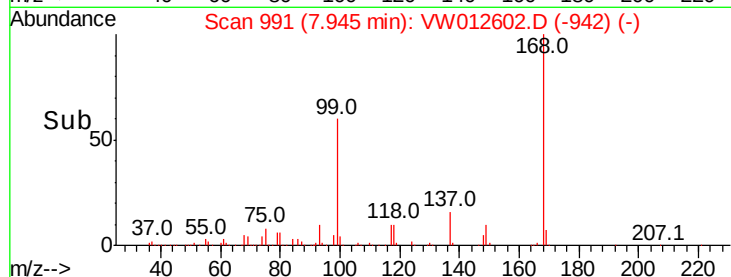
7.95

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 11.124 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012602.D

Acq: 04 Sep 2019 18:23

Tgt Ion: 84 Resp: 31766

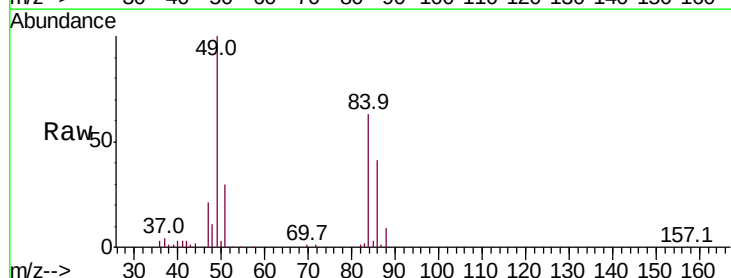
Ion Ratio Lower Upper

84 100

49 157.6 117.8 176.8

51 48.0 35.6 53.4

86 64.6 51.2 76.8



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

20000

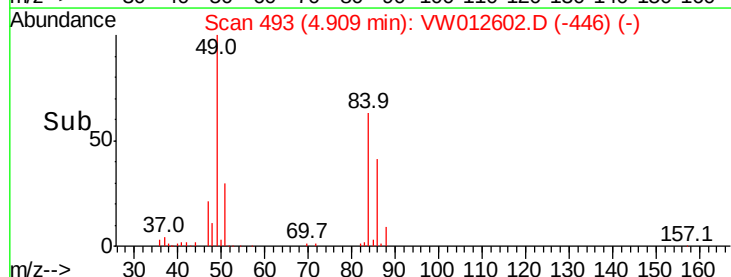
15000

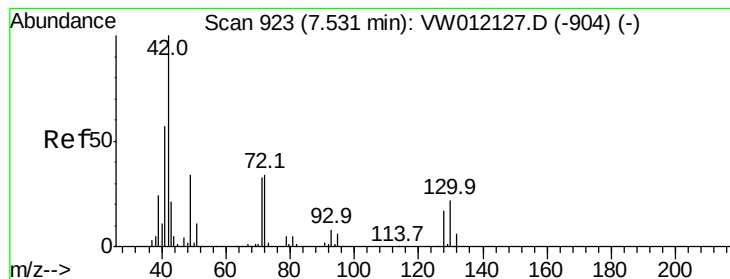
10000

5000

0

Time-->





#29

Tetrahydrofuran

Concen: 11.313 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012602.D

Acq: 04 Sep 2019 18:23

Instrument :

MSVOA\_W

ClientSampleId :

T9-12-13-B3-(0)

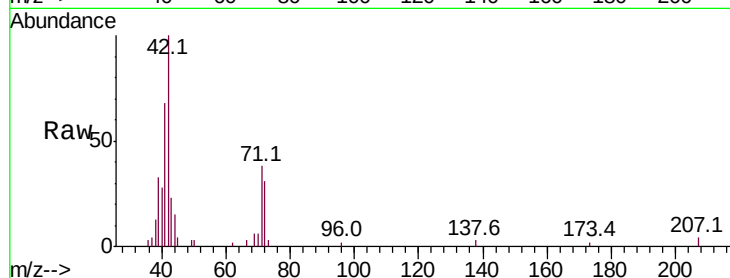
Tot Ion: 42 Resp: 6967

Ion Ratio Lower Upper

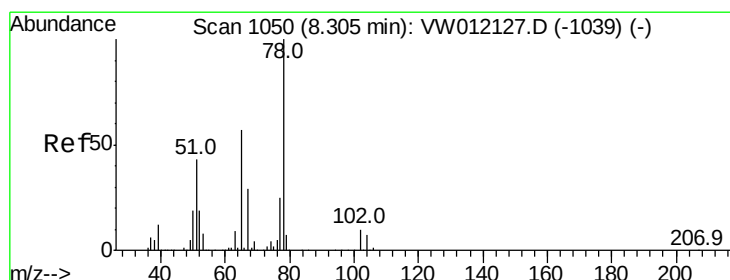
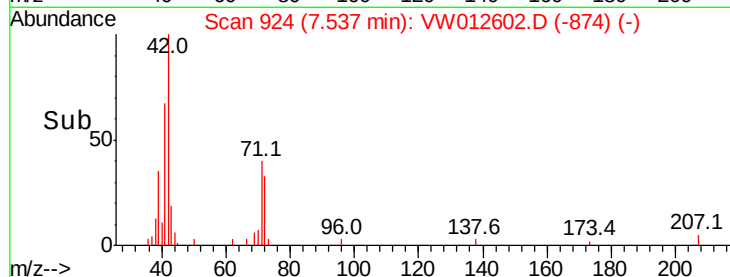
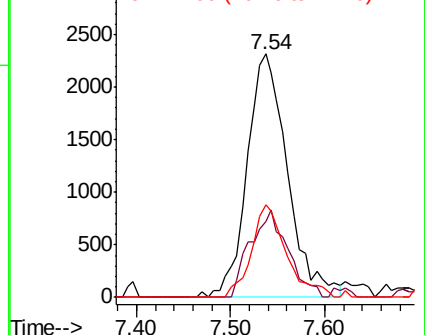
42 100

72 33.6 27.3 40.9

71 32.9 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW



#33

1,2-Dichloroethane-d4

Concen: 55.681 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012602.D

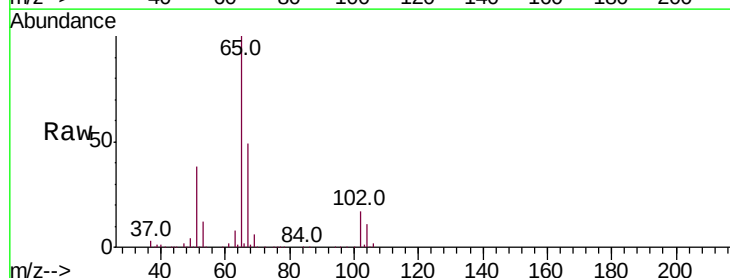
Acq: 04 Sep 2019 18:23

Tgt Ion: 65 Resp: 164536

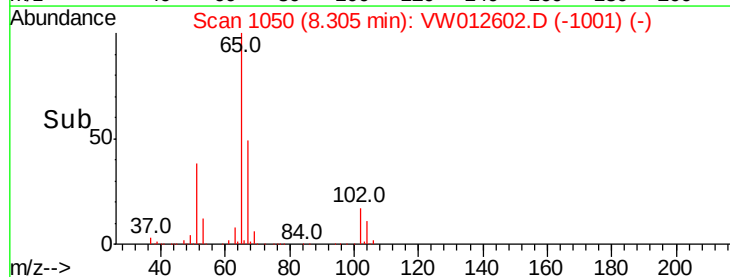
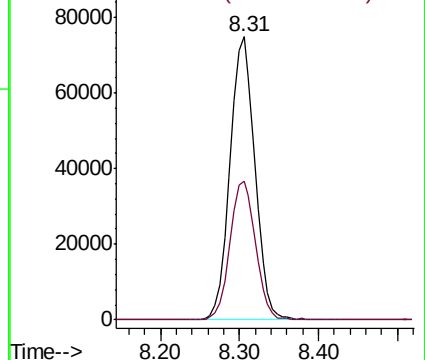
Ion Ratio Lower Upper

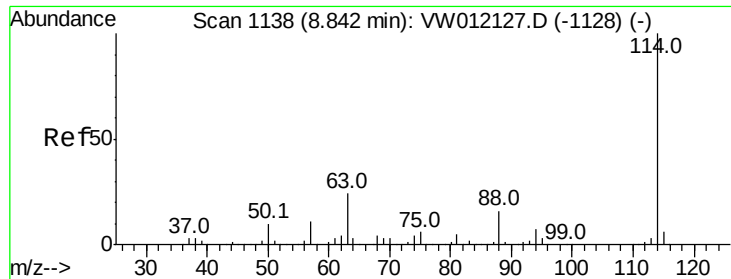
65 100

67 50.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012602.D

Acq: 04 Sep 2019 18:23

Instrument :

MSVOA\_W

ClientSampleId :

T9-12-13-B3-(0)

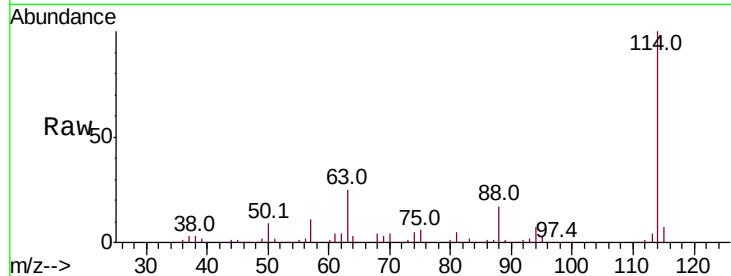
Tot Ion:114 Resp: 402348

Ion Ratio Lower Upper

114 100

63 25.3 0.0 48.6

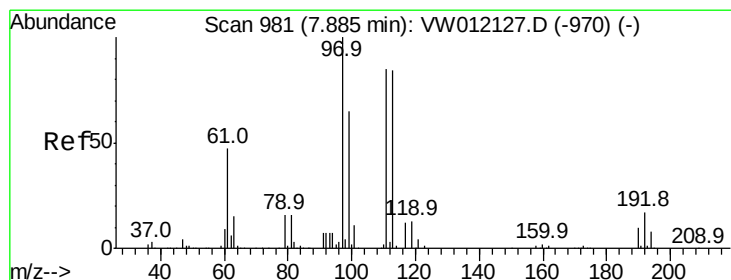
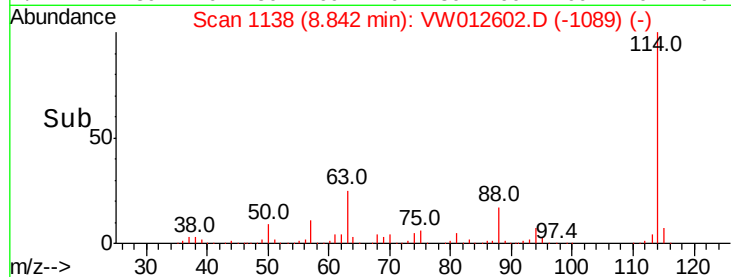
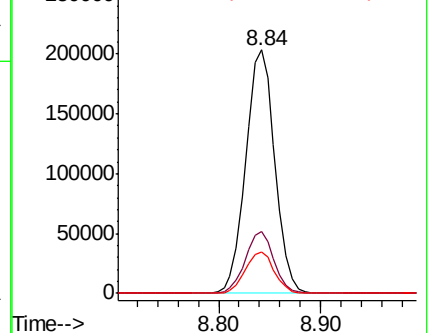
88 16.9 0.0 32.2



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: 52.072 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012602.D

Acq: 04 Sep 2019 18:23

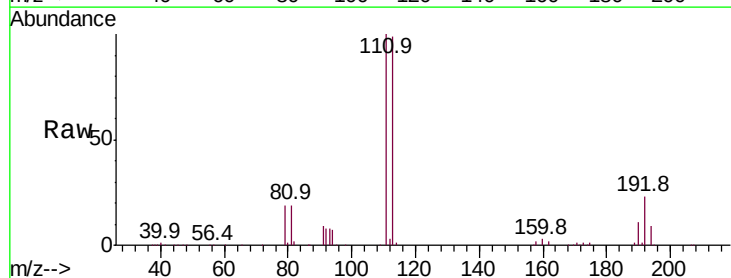
Tgt Ion:113 Resp: 125058

Ion Ratio Lower Upper

113 100

111 103.9 82.7 124.1

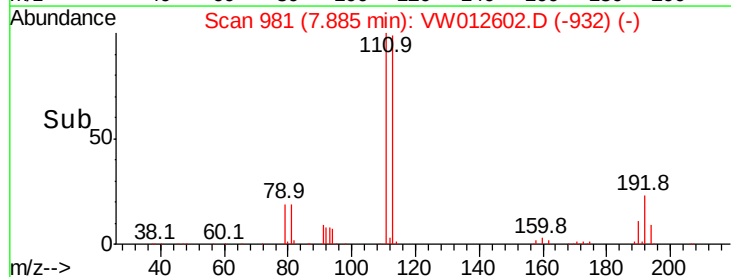
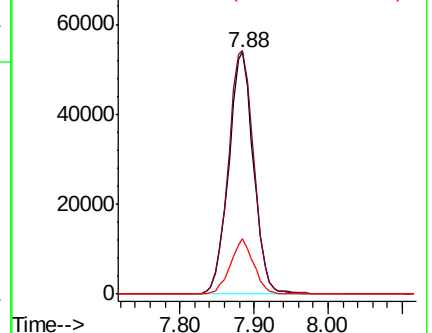
192 21.5 16.2 24.2

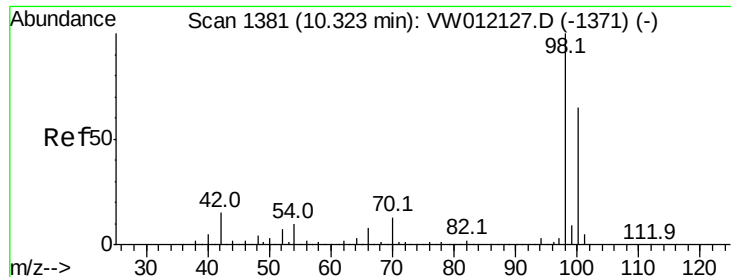


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.768 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012602.D

Acq: 04 Sep 2019 18:23

Instrument :

MSVOA\_W

ClientSampleId :

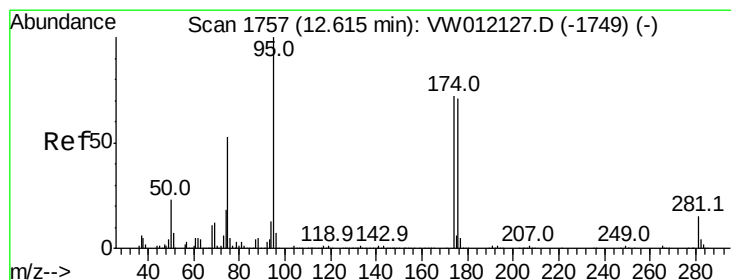
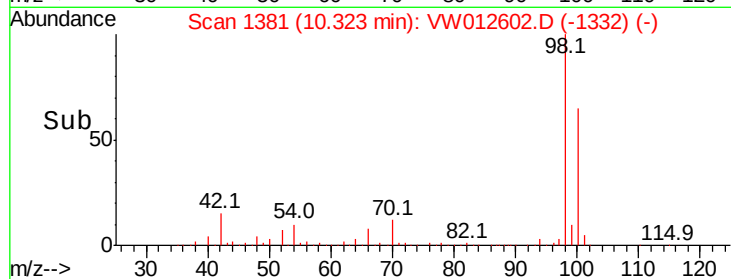
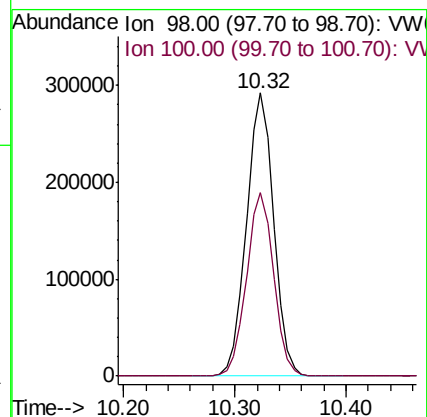
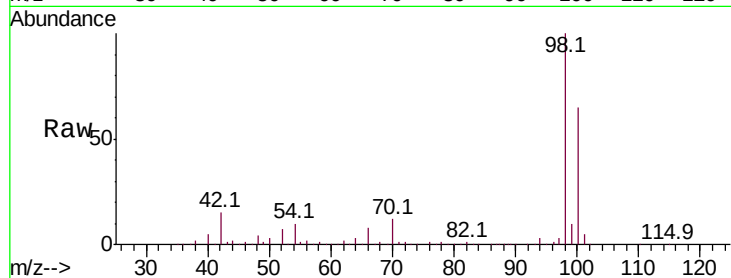
T9-12-13-B3-(0)

Tot Ion: 98 Resp: 494369

Ion Ratio Lower Upper

98 100

100 64.9 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 45.502 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012602.D

Acq: 04 Sep 2019 18:23

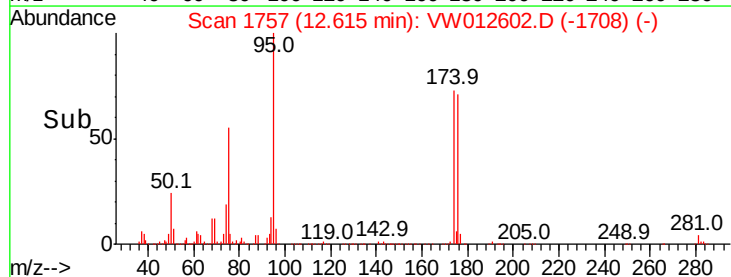
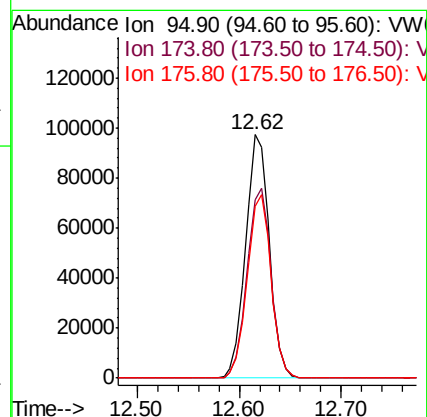
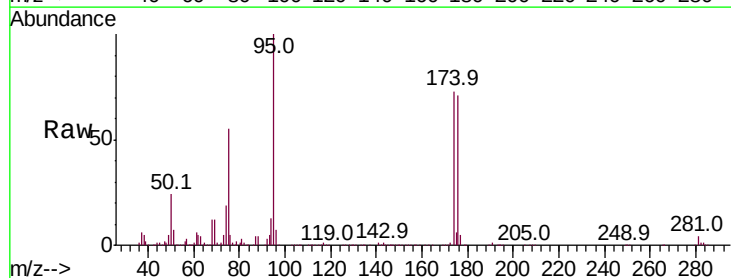
Tgt Ion: 95 Resp: 156191

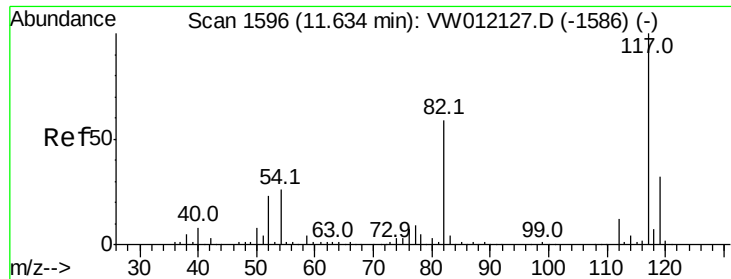
Ion Ratio Lower Upper

95 100

174 79.5 0.0 150.8

176 76.0 0.0 148.6

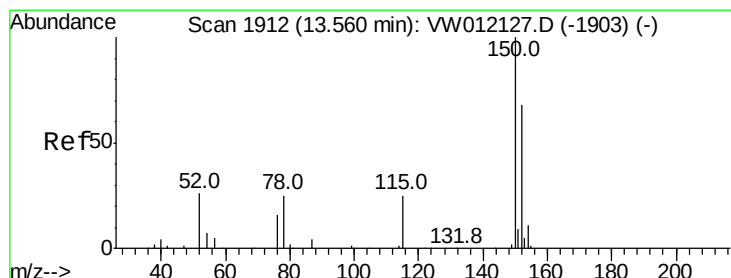
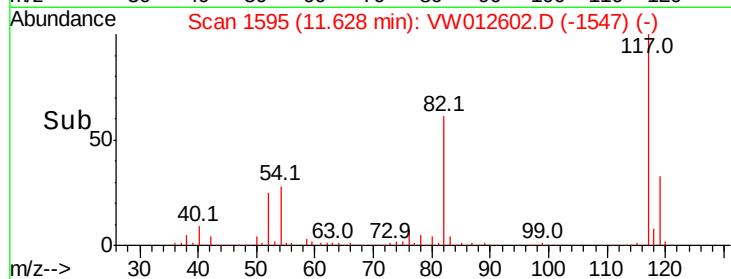
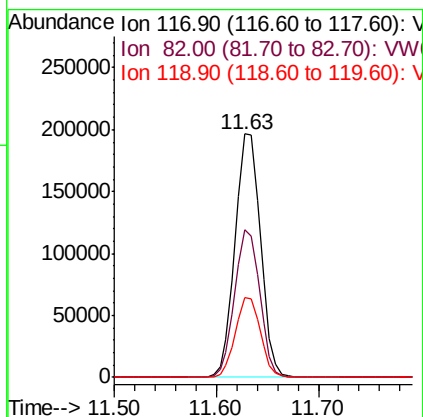
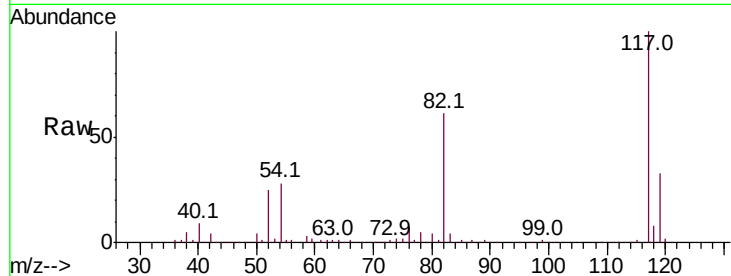




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012602.D  
Acq: 04 Sep 2019 18:23

Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-B3-(0)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.6  | 47.4  | 71.2  |
| 119     | 32.6  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012602.D  
Acq: 04 Sep 2019 18:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.7  | 30.1  | 90.3  |
| 150     | 156.5 | 0.0   | 345.8 |

