

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091619\  
 Data File : VW013035.D  
 Acq On : 16 Sep 2019 12:32  
 Operator : SY/VA  
 Sample : K4663-04  
 Misc : 5.95G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-01-091119

Quant Time: Sep 16 13:36:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 13 17:26:01 2019  
 Response via : Initial Calibration

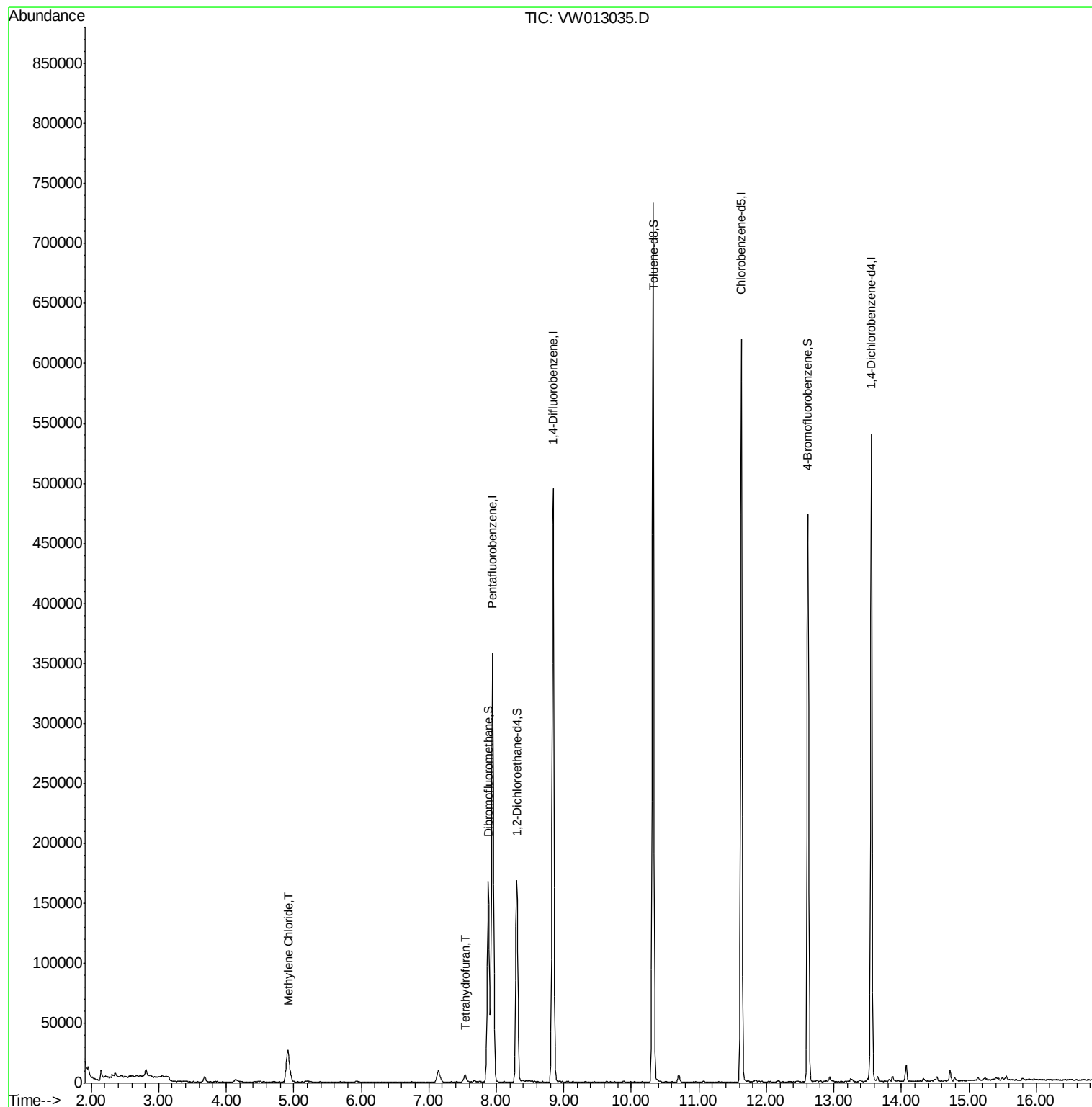
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 275247   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 409778   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 341401   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.55 | 152  | 144366   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 137758   | 54.19  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 108.38% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 119603   | 53.79  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 107.58% |          |
| 50) Toluene-d8              | 10.32 | 98   | 482207   | 55.42  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 110.84% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 154336   | 49.33  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.66%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 20) Methylene Chloride      | 4.92  | 84   | 21862    | 6.090  | ug/l    | 93       |
| 29) Tetrahydrofuran         | 7.54  | 42   | 5653     | 12.274 | ug/l    | 99       |

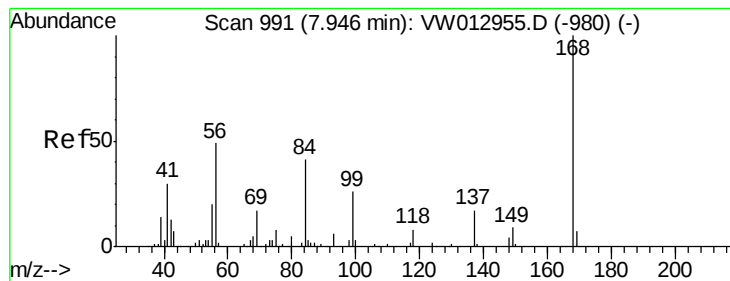
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OK-01-091119

Quant Time: Sep 16 13:36:45 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 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: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA\_W

ClientSampleId :

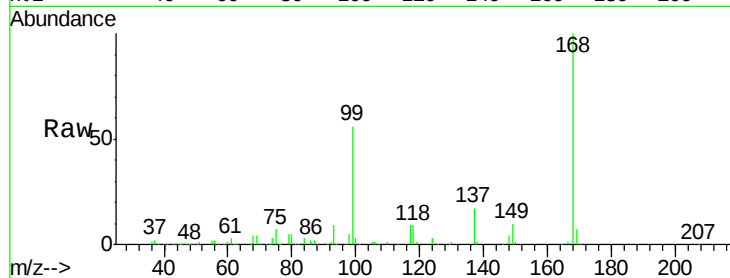
OK-01-091119

Tot Ion:168 Resp: 275247

Ion Ratio Lower Upper

168 100

99 55.9 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

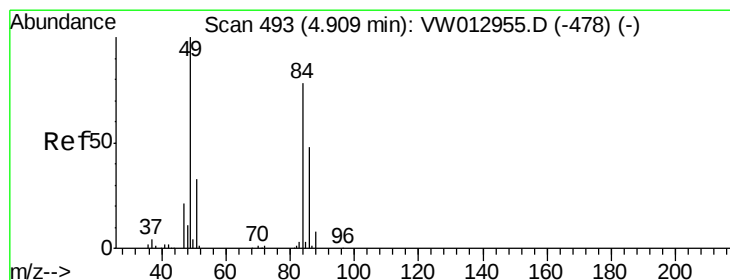
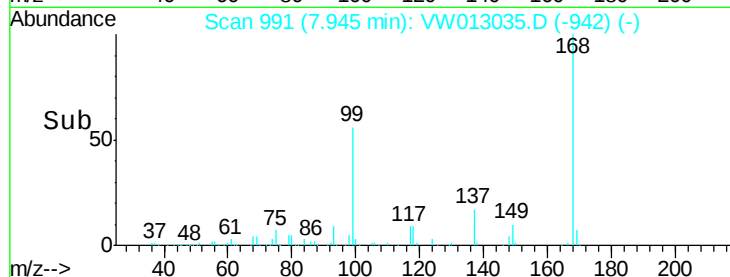
7.95

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 6.090 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Tgt Ion: 84 Resp: 21862

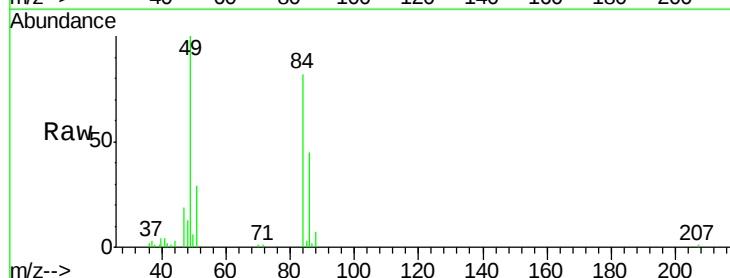
Ion Ratio Lower Upper

84 100

49 121.9 102.0 153.0

51 35.6 34.0 51.0

86 55.1 48.5 72.7



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

4.92

12000

10000

8000

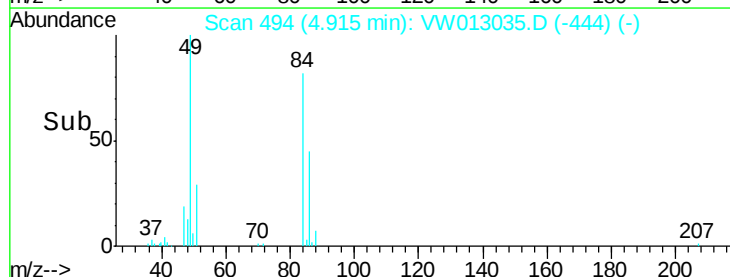
6000

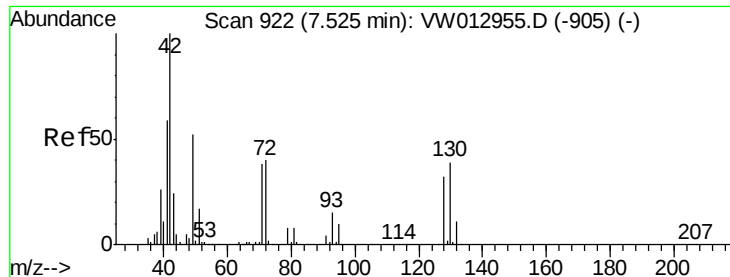
4000

2000

0

Time-->

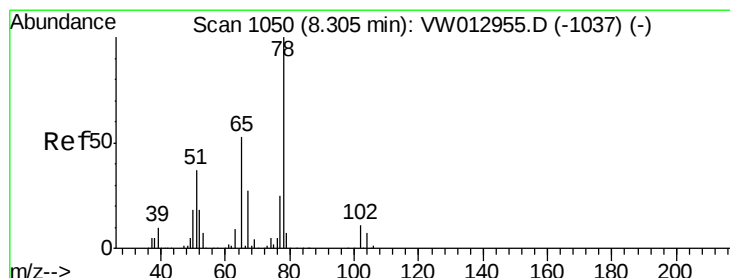
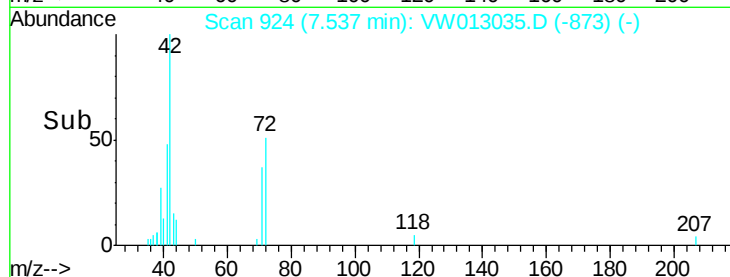
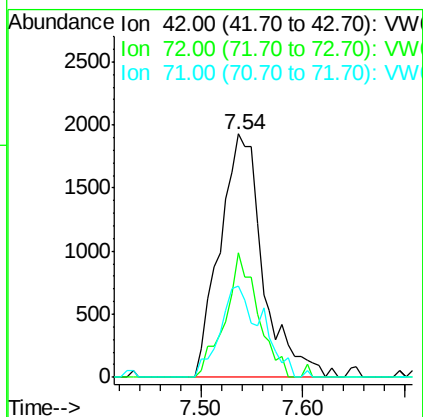
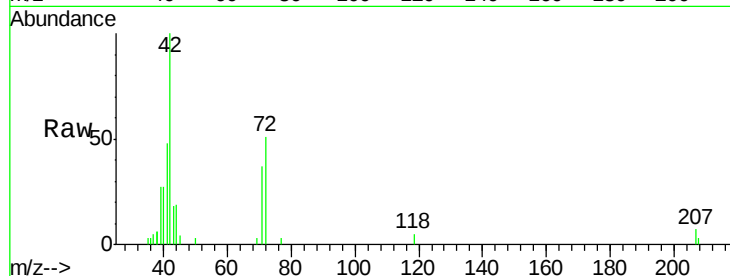




#29  
Tetrahydrofuran  
Concen: 12.274 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW013035.D  
Acq: 16 Sep 2019 12:32

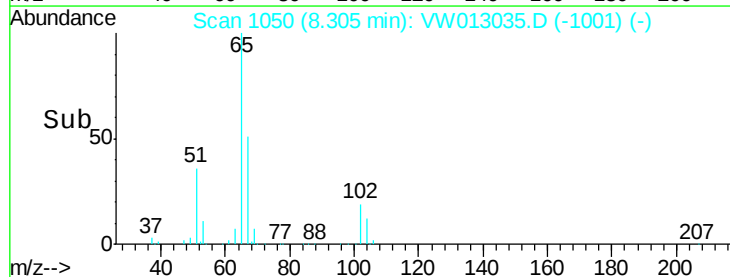
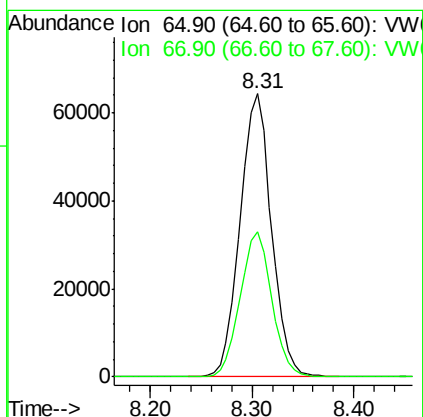
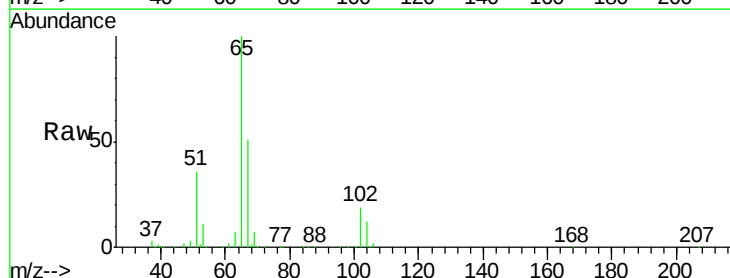
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-091119

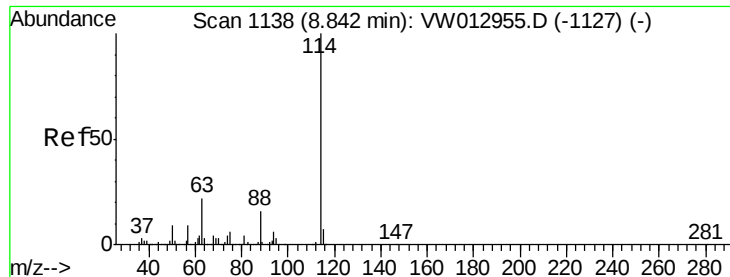
Tot Ion: 42 Resp: 5653  
Ion Ratio Lower Upper  
42 100  
72 38.7 31.4 47.0  
71 36.4 29.8 44.8



#33  
1,2-Dichloroethane-d4  
Concen: 54.191 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW013035.D  
Acq: 16 Sep 2019 12:32

Tgt Ion: 65 Resp: 137758  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 101.2

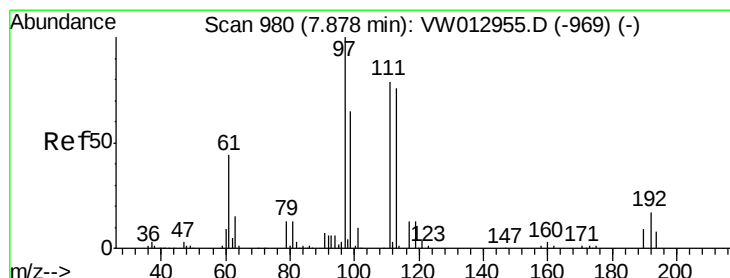
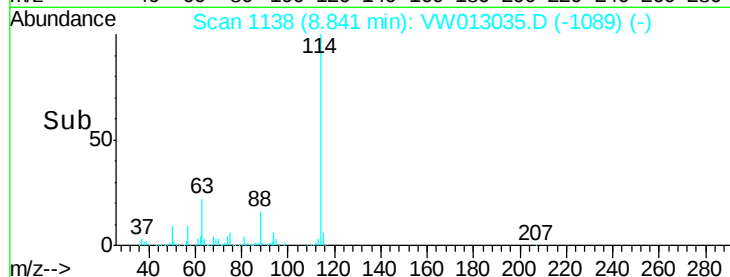
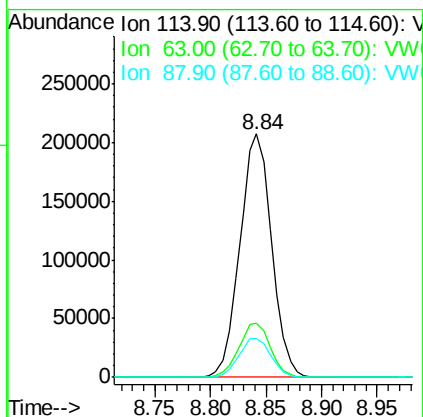
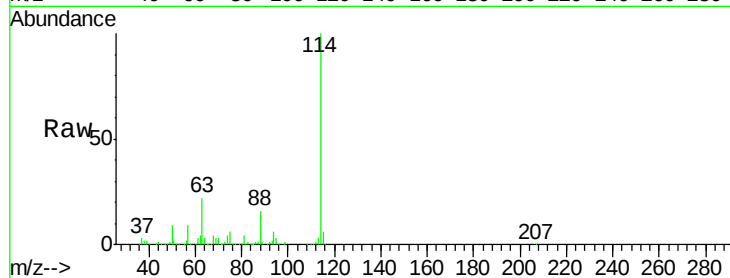




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW013035.D  
 Acq: 16 Sep 2019 12:32

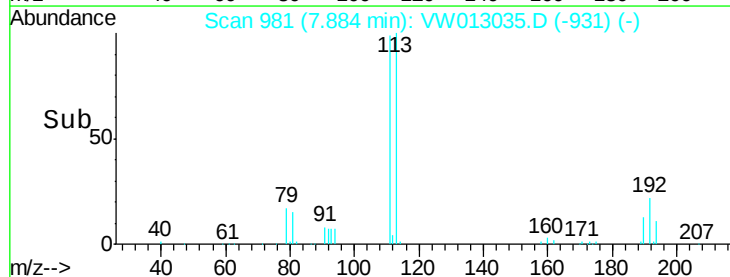
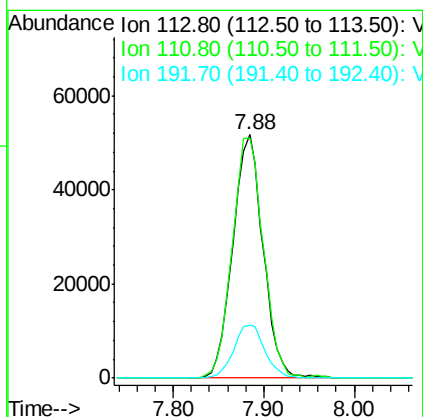
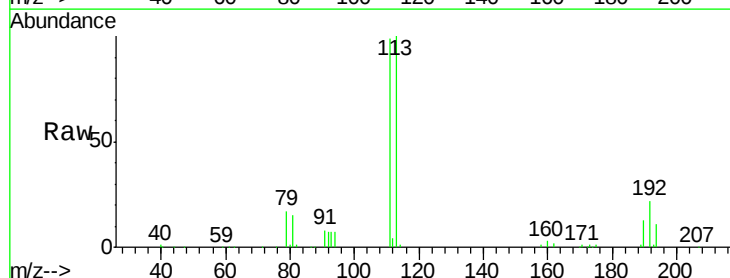
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-01-091119

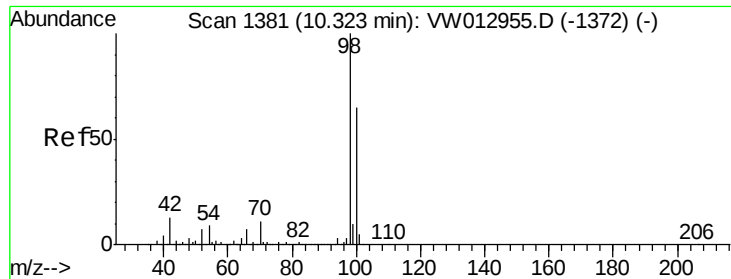
Tot Ion:114 Resp: 409778  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 0.0 43.4  
 88 16.0 0.0 31.6



#35  
 Dibromofluoromethane  
 Concen: 53.790 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.01 min  
 Lab File: VW013035.D  
 Acq: 16 Sep 2019 12:32

Tgt Ion:113 Resp: 119603  
 Ion Ratio Lower Upper  
 113 100  
 111 101.3 82.8 124.2  
 192 22.4 17.8 26.8





#50

Toluene-d8

Concen: 55.421 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA\_W

ClientSampleId :

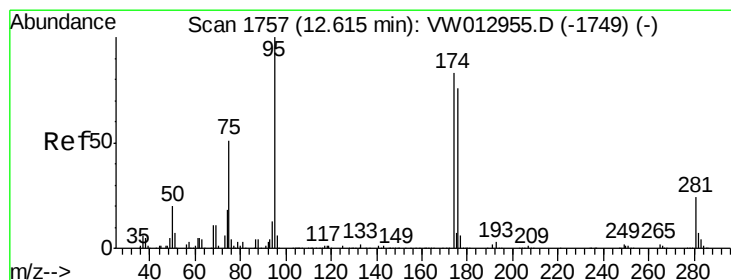
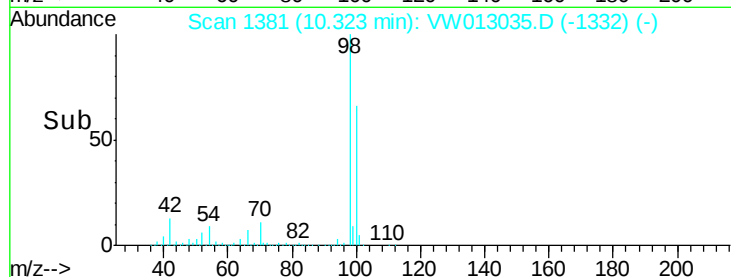
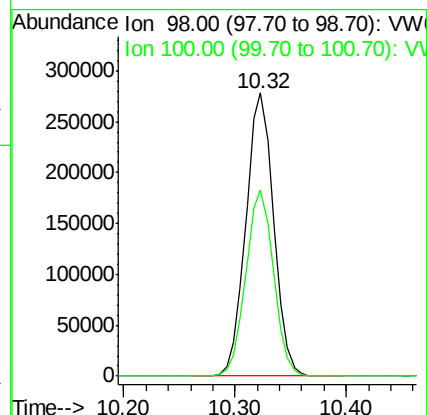
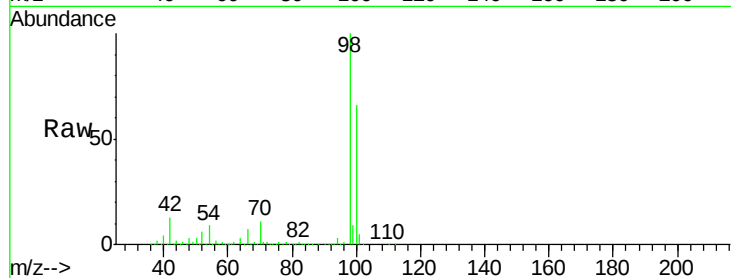
OK-01-091119

Tot Ion: 98 Resp: 482207

Ion Ratio Lower Upper

98 100

100 65.6 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 49.330 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

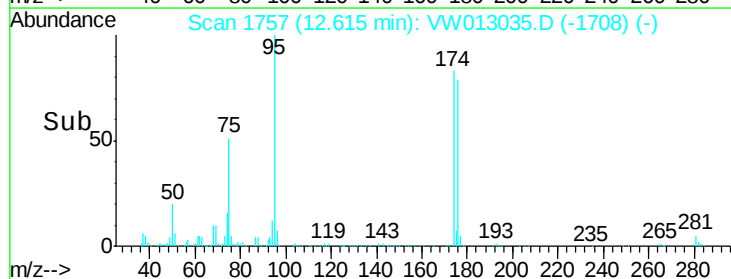
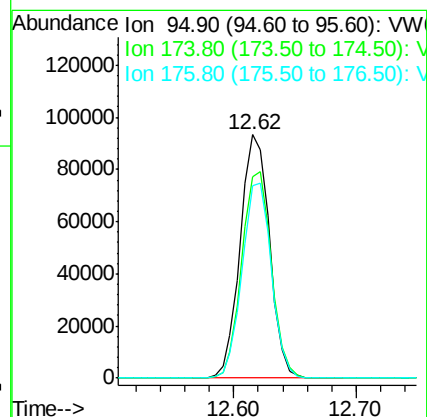
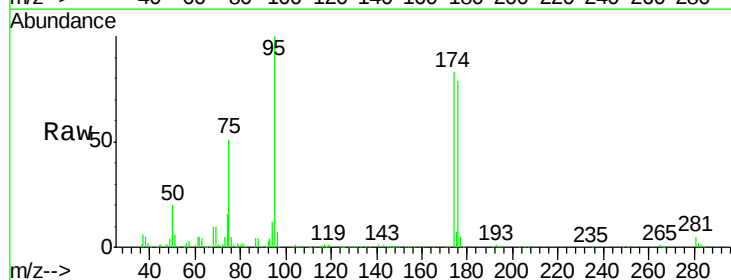
Tgt Ion: 95 Resp: 154336

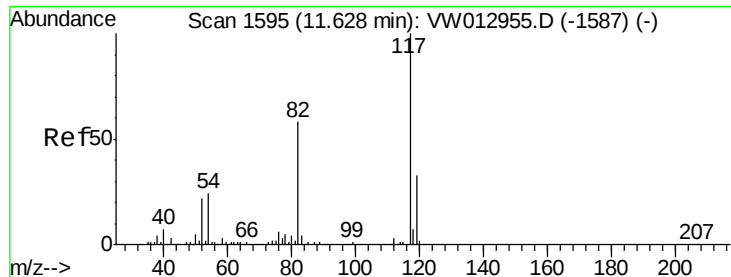
Ion Ratio Lower Upper

95 100

174 85.7 0.0 170.4

176 80.4 0.0 164.6

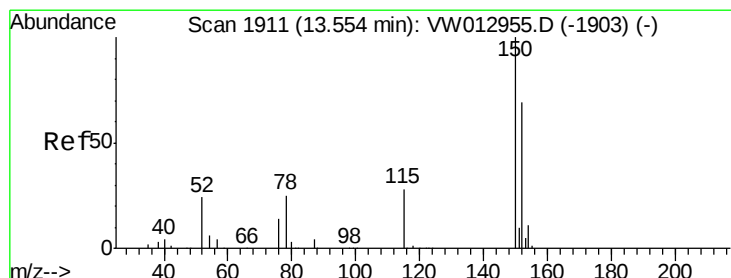
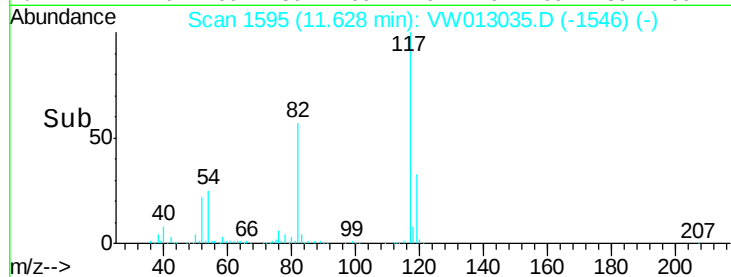
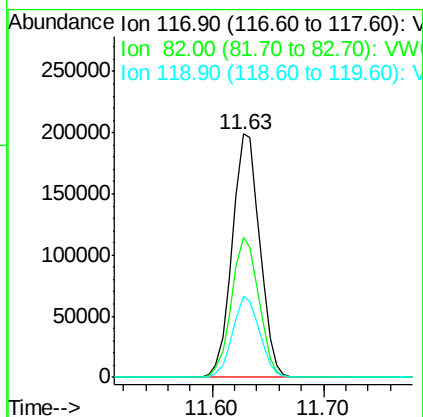
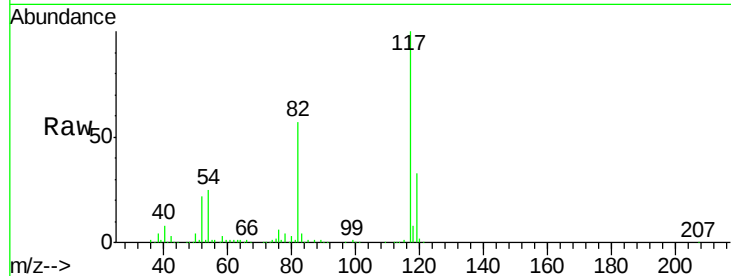




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW013035.D  
Acq: 16 Sep 2019 12:32

Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-091119

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.2  | 46.3  | 69.5  |
| 119     | 33.1  | 26.2  | 39.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.00 min  
Lab File: VW013035.D  
Acq: 16 Sep 2019 12:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.2  | 28.8  | 86.4  |
| 150     | 156.3 | 0.0   | 340.2 |

