

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082719\  
 Data File : VW012232.D  
 Acq On : 28 Aug 2019 04:08  
 Operator : SY/VA  
 Sample : K4088-08  
 Misc : 6.92G/5ML/MSVOA W/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CL-02-082619

Quant Time: Aug 28 07:24:56 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

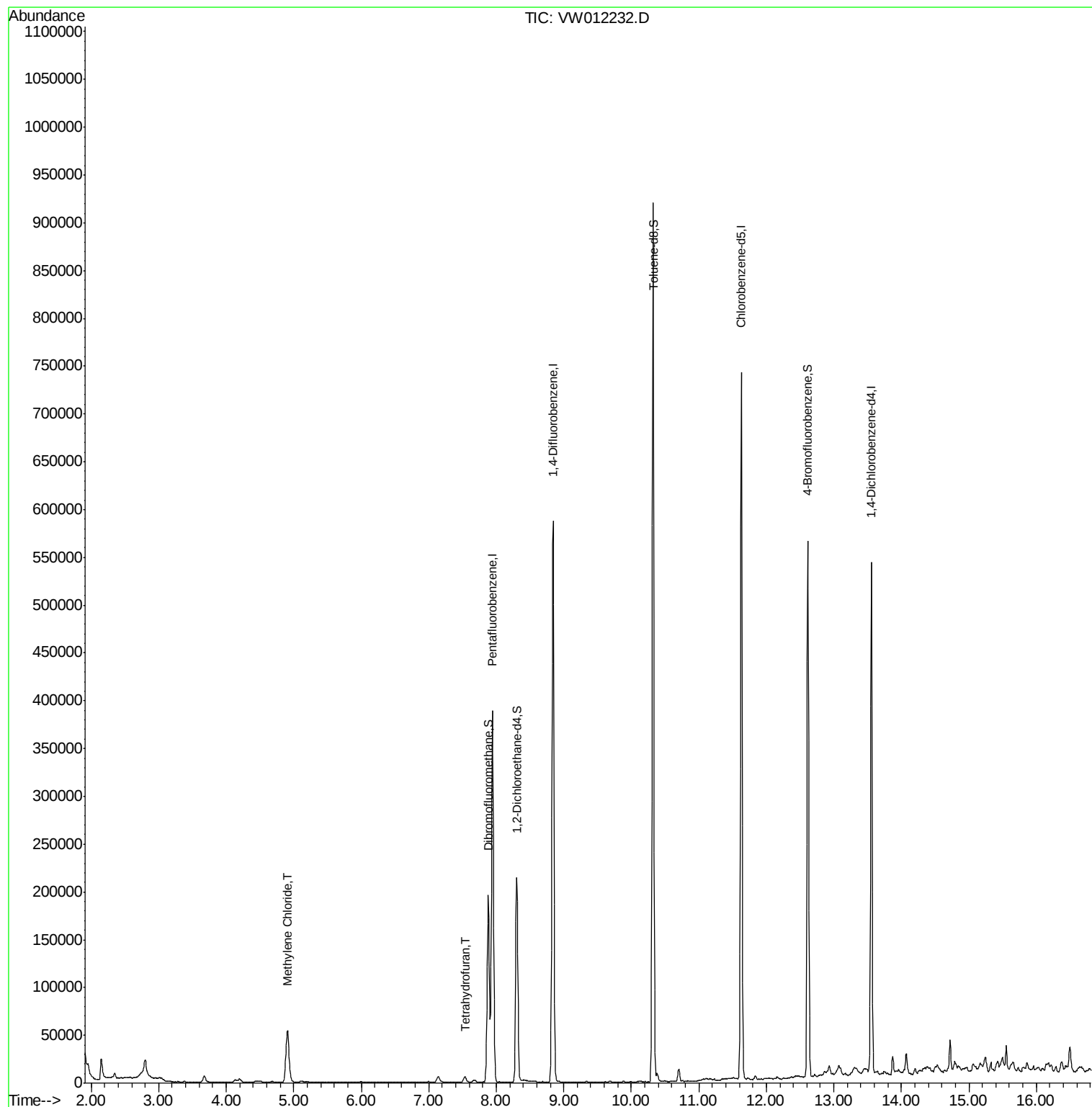
| Internal Standards          | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95   | 168  | 284772   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84   | 114  | 471811   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63  | 117  | 392024   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56  | 152  | 136273   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65   | 174133   | 51.44  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 102.88% |          |
| 35) Dibromofluoromethane    | 7.88   | 113  | 139281   | 49.46  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 98.92%  |          |
| 50) Toluene-d8              | 10.32  | 98   | 581774   | 50.95  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 101.90% |          |
| 62) 4-Bromofluorobenzene    | 12.62  | 95   | 178573   | 44.36  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 88.72%  |          |
| Target Compounds            |        |      |          |        |         |          |
| 20) Methylene Chloride      | 4.91   | 84   | 39282    | 12.008 | ug/l    | 98       |
| 29) Tetrahydrofuran         | 7.54   | 42   | 5614     | 7.958  | ug/l    | 98       |

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

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Quant Title : SW846 8260  
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: VW012232.D

Acq: 28 Aug 2019 04:08

Instrument :

MSVOA\_W

ClientSampleId :

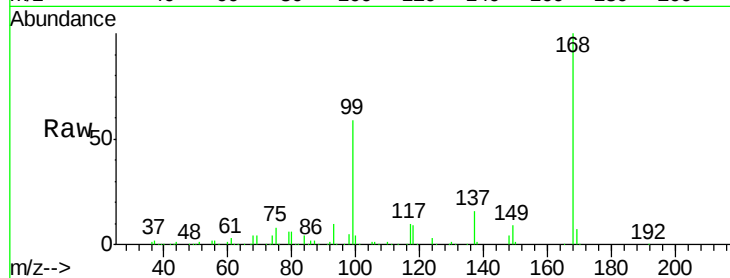
CL-02-082619

Tot Ion:168 Resp: 284772

Ion Ratio Lower Upper

168 100

99 59.3 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

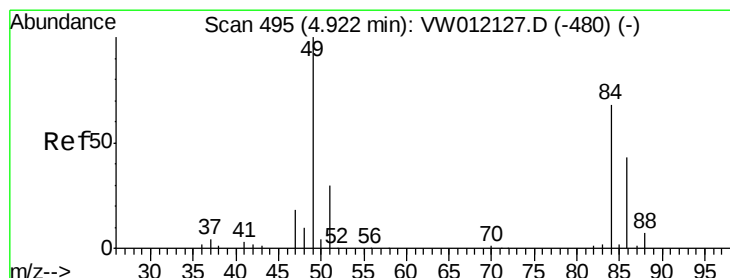
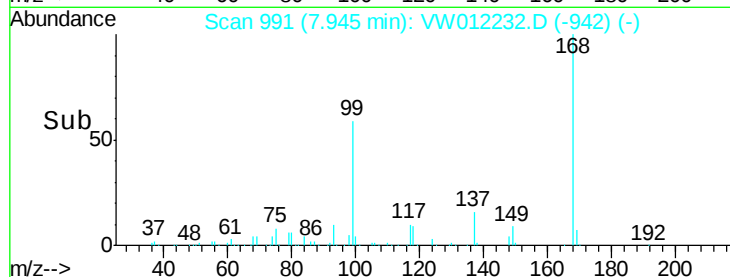
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#20

Methylene Chloride

Concen: 12.008 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012232.D

Acq: 28 Aug 2019 04:08

Tgt Ion: 84 Resp: 39282

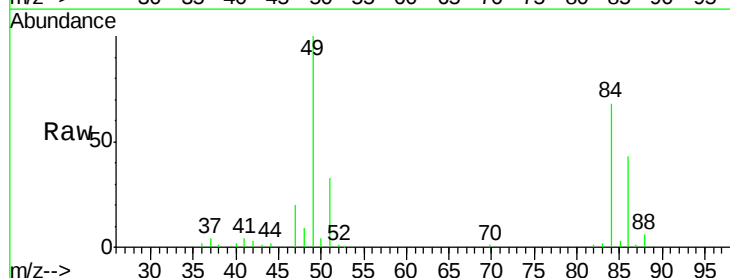
Ion Ratio Lower Upper

84 100

49 147.1 117.8 176.8

51 49.0 35.6 53.4

86 63.3 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

25000

20000

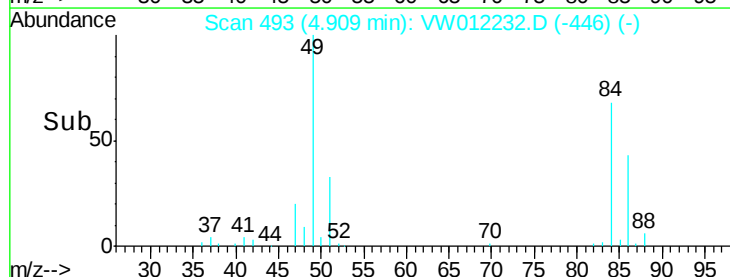
15000

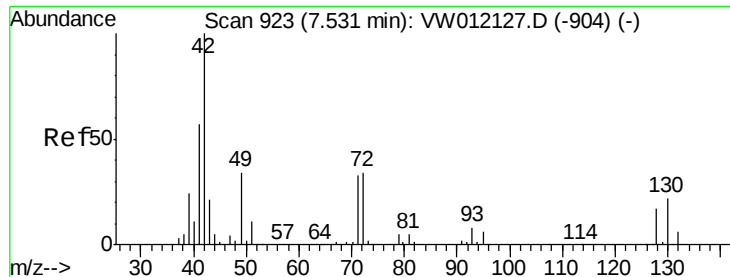
10000

5000

0

Time--> 4.80 4.90 5.00





#29

Tetrahydrofuran

Concen: 7.958 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012232.D

Acq: 28 Aug 2019 04:08

Instrument :

MSVOA\_W

ClientSampleId :

CL-02-082619

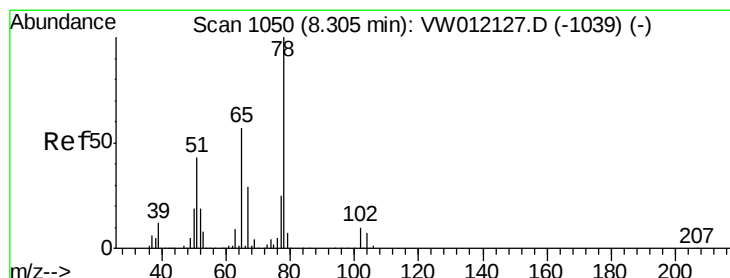
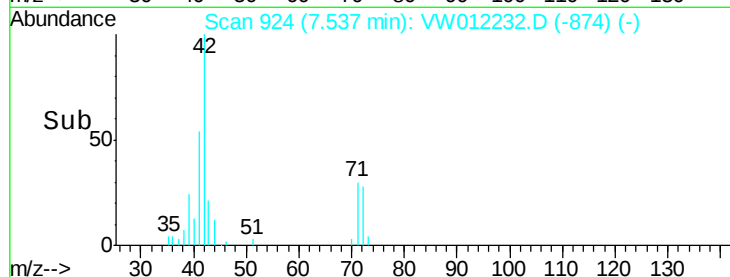
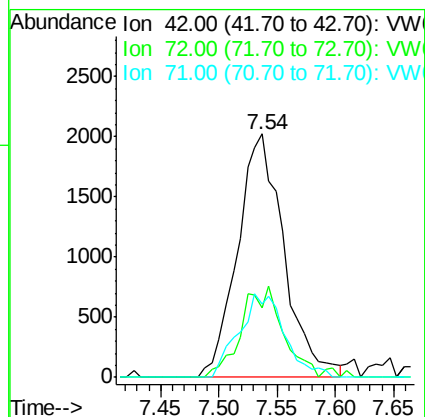
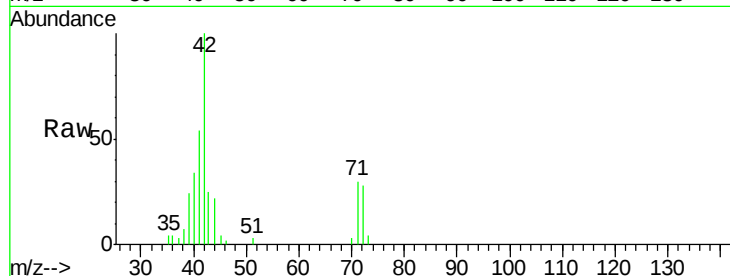
Tot Ion: 42 Resp: 5614

Ion Ratio Lower Upper

42 100

72 33.4 27.3 40.9

71 34.0 25.5 38.3



#33

1,2-Dichloroethane-d4

Concen: 51.439 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012232.D

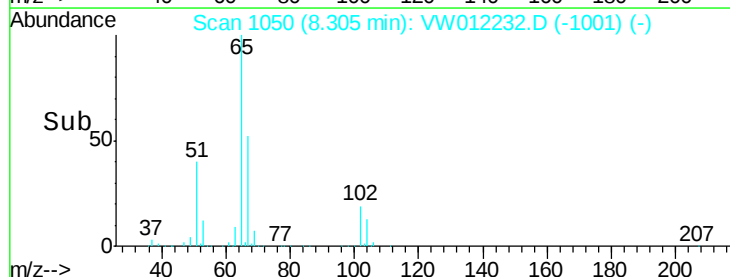
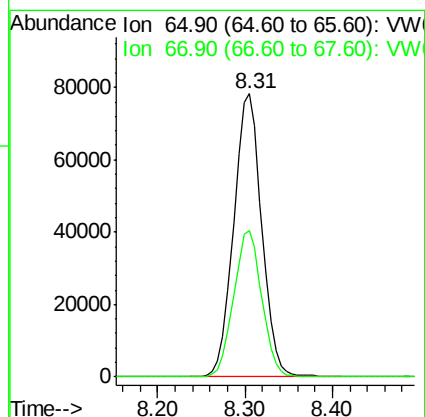
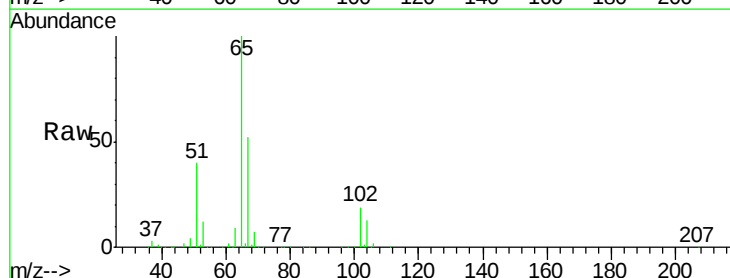
Acq: 28 Aug 2019 04:08

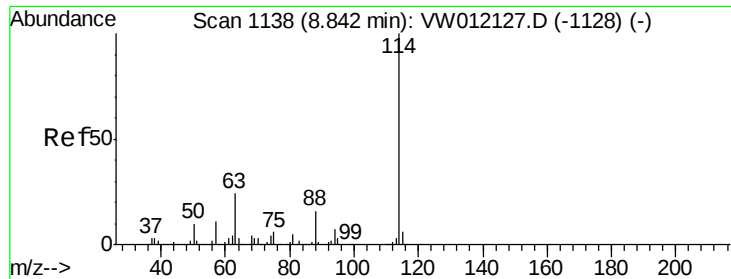
Tgt Ion: 65 Resp: 174133

Ion Ratio Lower Upper

65 100

67 52.2 0.0 102.6

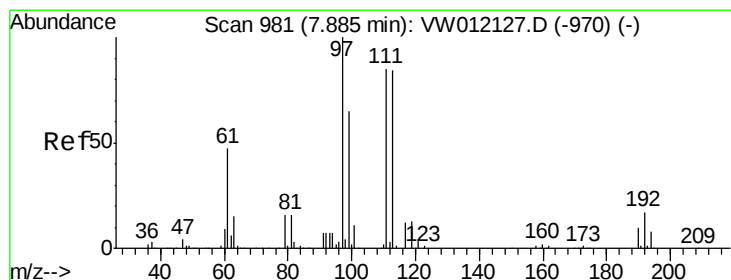
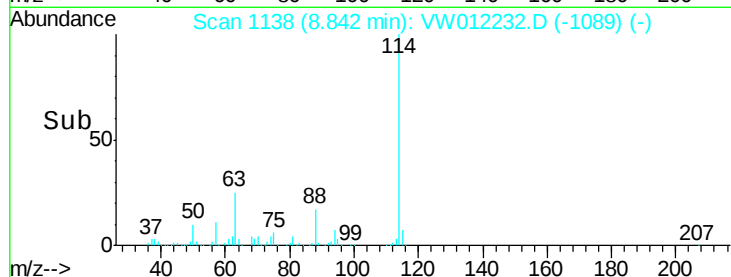
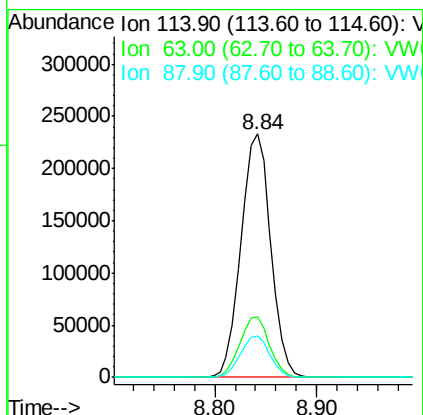
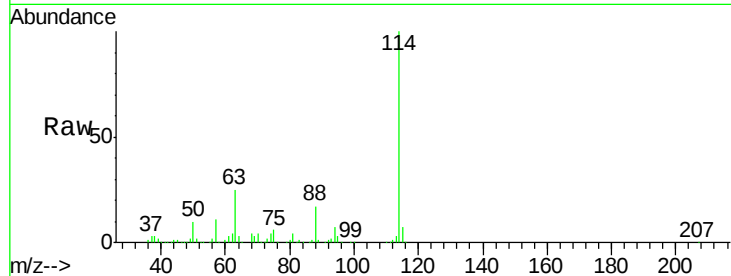




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012232.D  
 Acq: 28 Aug 2019 04:08

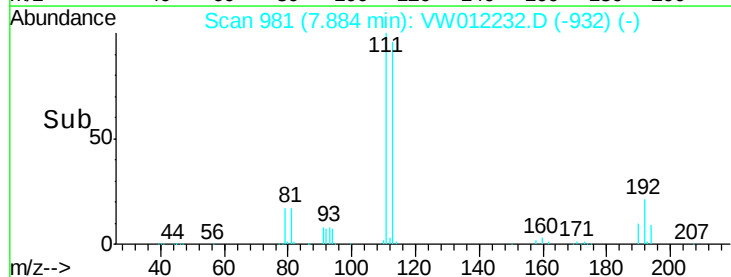
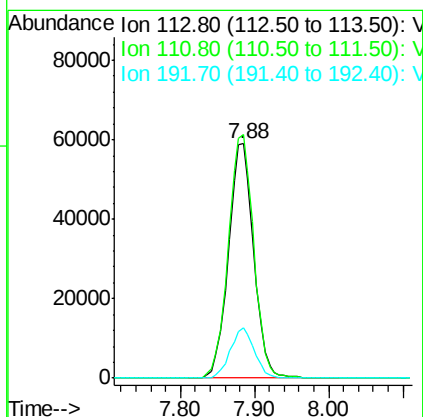
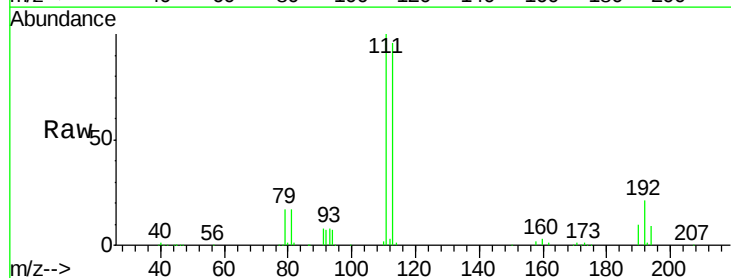
Instrument :  
 MSVOA\_W  
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 CL-02-082619

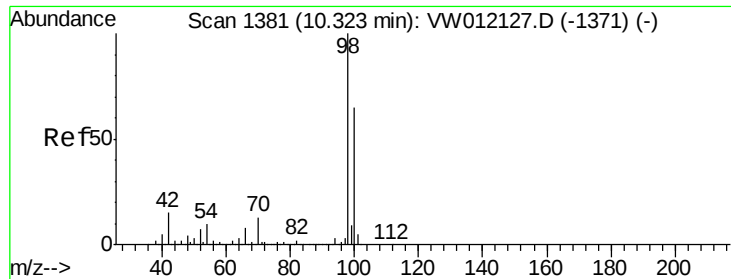
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.0  | 0.0   | 48.6  |
| 88      | 17.1  | 0.0   | 32.2  |



#35  
 Dibromofluoromethane  
 Concen: 49.456 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012232.D  
 Acq: 28 Aug 2019 04:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.9 | 82.7  | 124.1 |
| 192     | 20.7  | 16.2  | 24.2  |





#50

Toluene-d8

Concen: 50.948 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012232.D

Acq: 28 Aug 2019 04:08

Instrument :

MSVOA\_W

ClientSampleId :

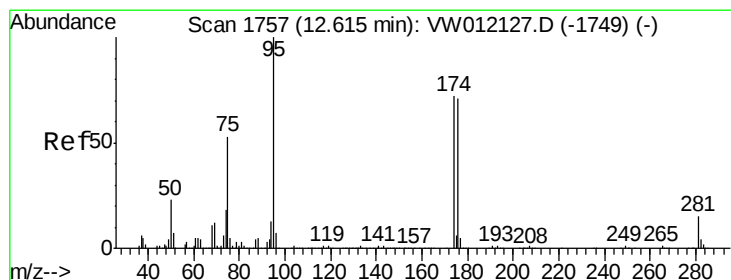
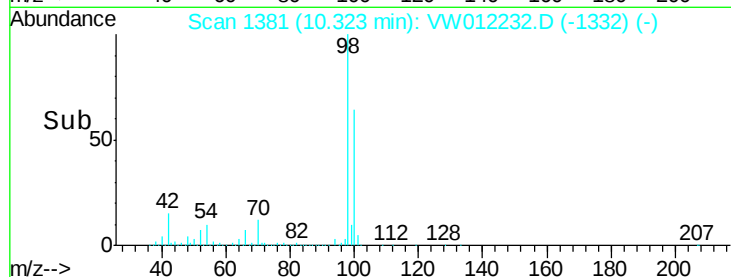
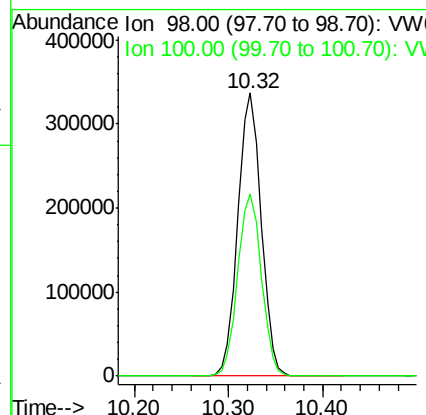
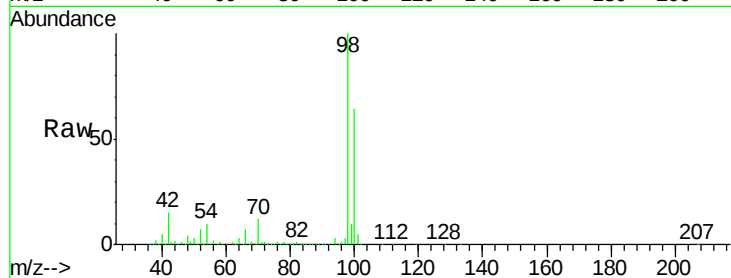
CL-02-082619

Tot Ion: 98 Resp: 581774

Ion Ratio Lower Upper

98 100

100 65.2 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 44.364 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012232.D

Acq: 28 Aug 2019 04:08

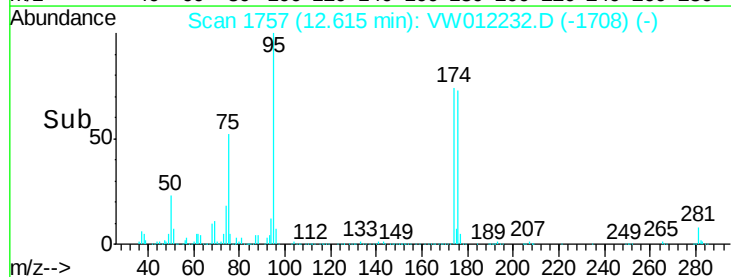
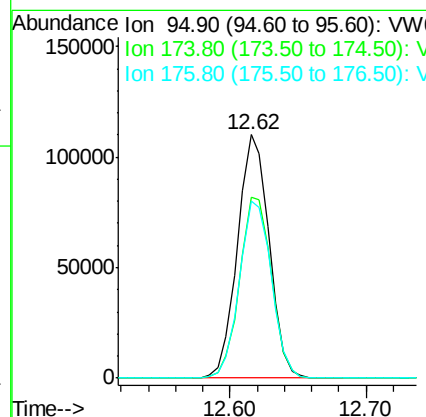
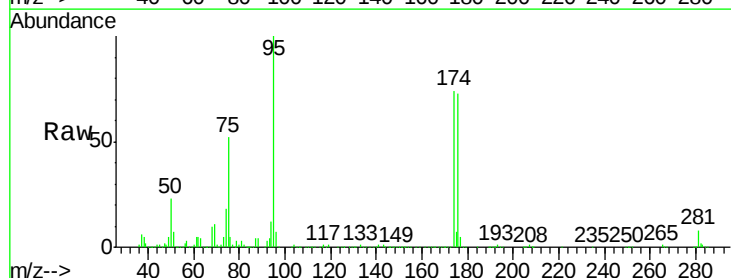
Tgt Ion: 95 Resp: 178573

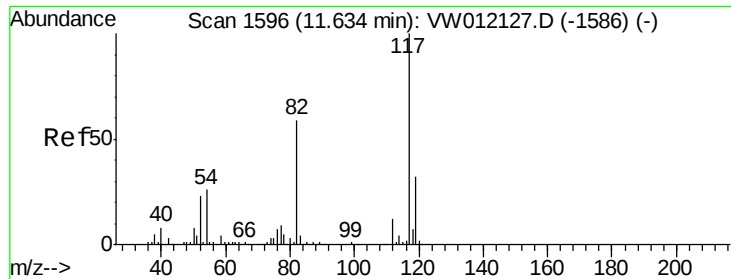
Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.8

176 73.9 0.0 148.6

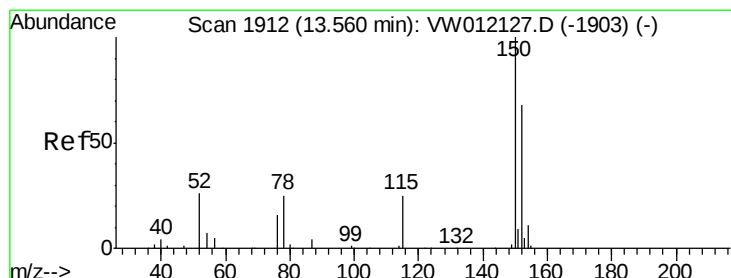
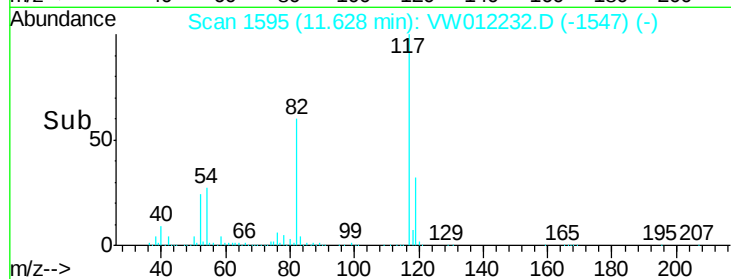
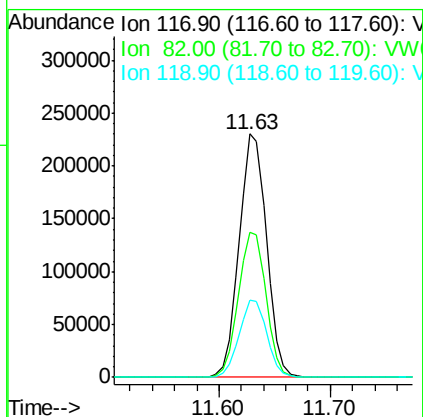
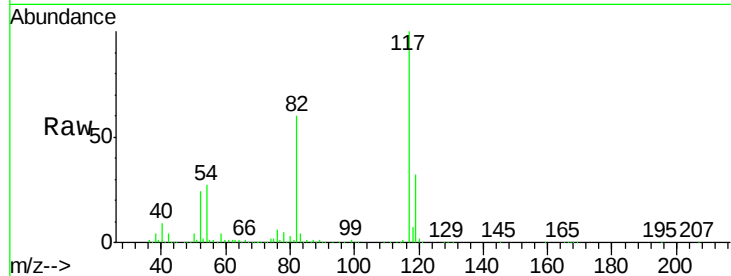




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012232.D  
Acq: 28 Aug 2019 04:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
CL-02-082619

Tot Ion:117 Resp: 392024  
Ion Ratio Lower Upper  
117 100  
82 59.8 47.4 71.2  
119 31.8 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: VW012232.D  
Acq: 28 Aug 2019 04:08

Tgt Ion:152 Resp: 136273  
Ion Ratio Lower Upper  
152 100  
115 59.7 30.1 90.3  
150 155.7 0.0 345.8

