

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
 Data File : VW008221.D  
 Acq On : 12 Jan 2019 05:22  
 Operator : SY/VA  
 Sample : K1119-07  
 Misc : 4.83G/5ML/MSVOA W/SOIL  
 ALS Vial : 36 Sample Multiplier: 1

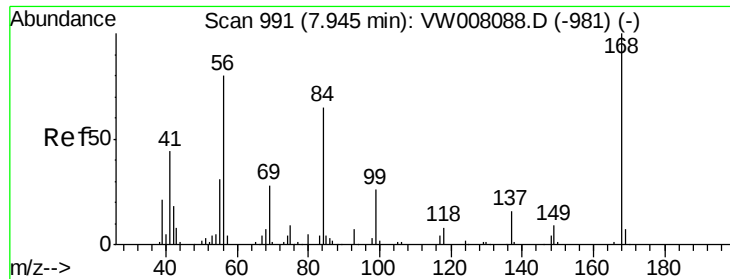
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DS-D

Quant Time: Jan 14 10:04:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95   | 168  | 95467    | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84   | 114  | 169478   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63  | 117  | 154956   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56  | 152  | 64115    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65   | 52885    | 49.29  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 98.58%  |          |
| 35) Dibromofluoromethane    | 7.88   | 113  | 51817    | 52.42  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 104.84% |          |
| 50) Toluene-d8              | 10.32  | 98   | 215372   | 51.92  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 103.84% |          |
| 62) 4-Bromofluorobenzene    | 12.62  | 95   | 70388    | 47.33  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 94.66%  |          |
| Target Compounds            |        |      |          |        |         |          |
|                             |        |      |          |        | Qvalue  |          |
| 20) Methylene Chloride      | 4.91   | 84   | 6791     | 1.793  | ug/l    | 94       |
| 52) Toluene                 | 10.39  | 92   | 26527    | 8.772  | ug/l    | 99       |
| 67) Ethyl Benzene           | 11.73  | 91   | 15262    | 2.541  | ug/l    | 99       |
| 68) m/p-Xylenes             | 11.83  | 106  | 25421    | 11.088 | ug/l    | 94       |
| 69) o-Xylene                | 12.17  | 106  | 13674    | 6.440  | ug/l    | 95       |
| 73) Isopropylbenzene        | 12.47  | 105  | 9125     | 1.813  | ug/l    | 97       |
| 78) n-propylbenzene         | 12.80  | 91   | 21909    | 3.552  | ug/l    | 95       |
| 80) 1,3,5-Trimethylbenzene  | 12.94  | 105  | 33648    | 8.135  | ug/l    | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.26  | 105  | 123288   | 28.899 | ug/l    | 98       |
| 85) sec-Butylbenzene        | 13.39  | 105  | 16223    | 3.026  | ug/l    | 86       |
| 86) p-Isopropyltoluene      | 13.50  | 119  | 7819     | 1.689  | ug/l    | 95       |
| 89) n-Butylbenzene          | 13.83  | 91   | 12725    | 2.807  | ug/l #  | 74       |
| 95) Naphthalene             | 15.38  | 128  | 8580     | 3.650  | ug/l #  | 94       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

Instrument :

MSVOA\_W

ClientSampleId :

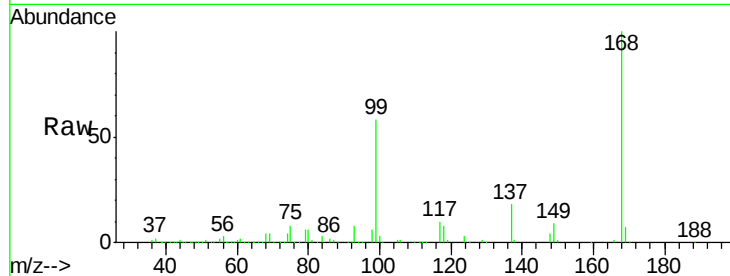
DS-D

Tot Ion:168 Resp: 95467

Ion Ratio Lower Upper

168 100

99 58.5 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

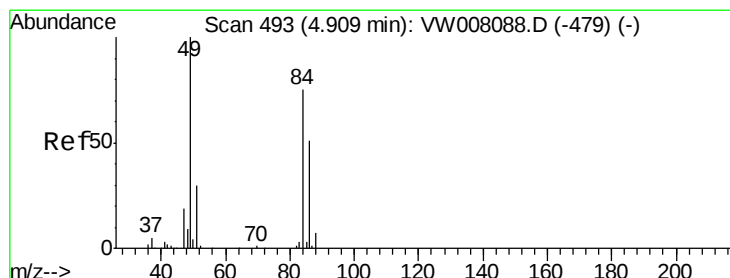
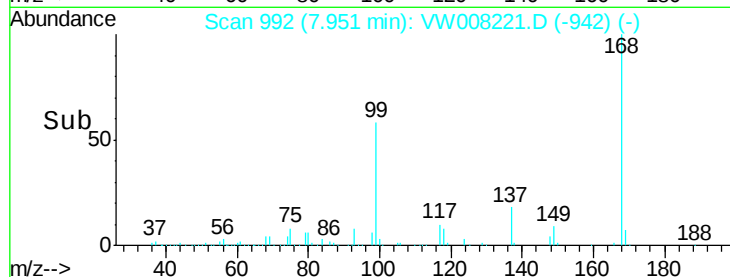
20000

10000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#20

Methylene Chloride

Concen: 1.793 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

Tgt Ion: 84 Resp: 6791

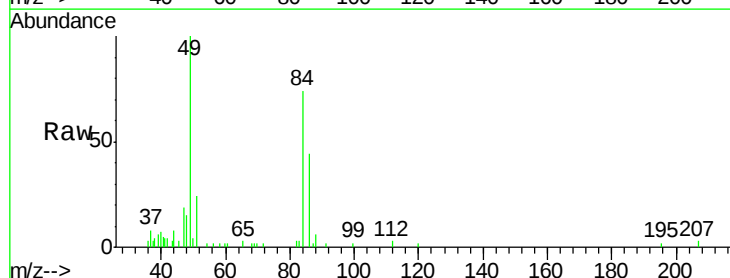
Ion Ratio Lower Upper

84 100

49 132.4 107.1 160.7

51 32.5 32.4 48.6

86 59.9 54.2 81.4



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

4000

3000

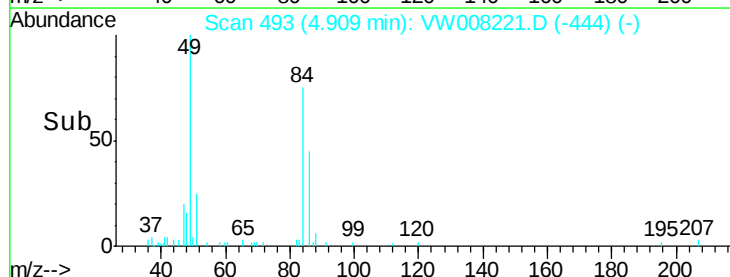
2000

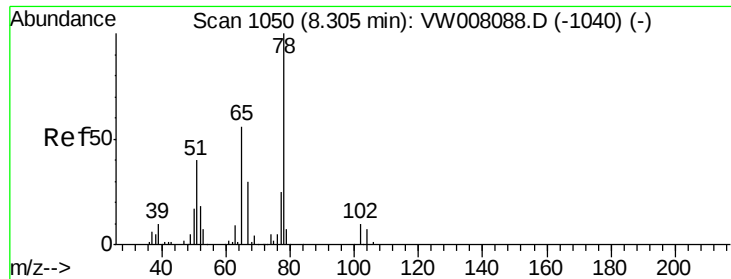
1000

0

4.80 4.90 5.00

Time-->





#33

1,2-Dichloroethane-d4

Concen: 49.289 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

Instrument :

MSVOA\_W

ClientSampled :

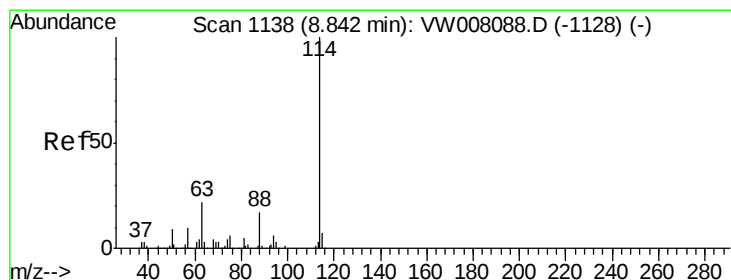
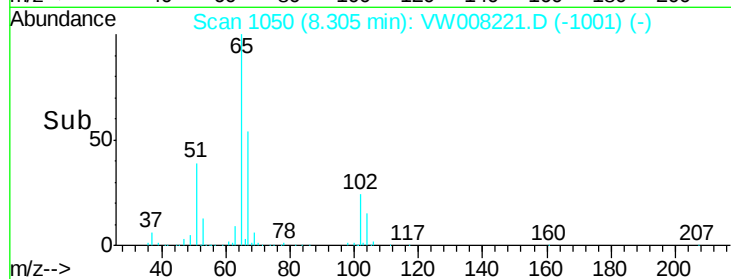
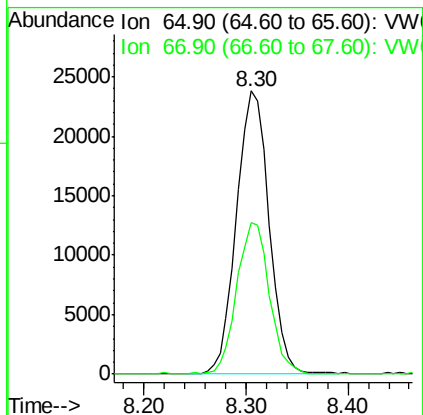
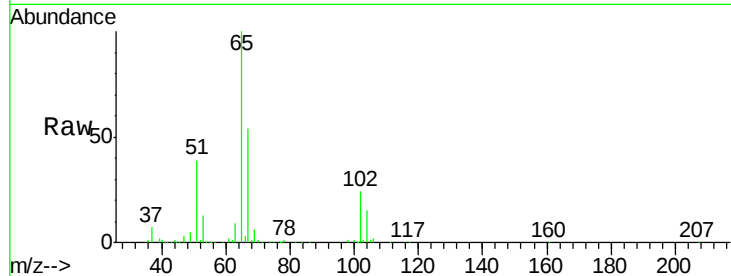
DS-D

Tot Ion: 65 Resp: 52885

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

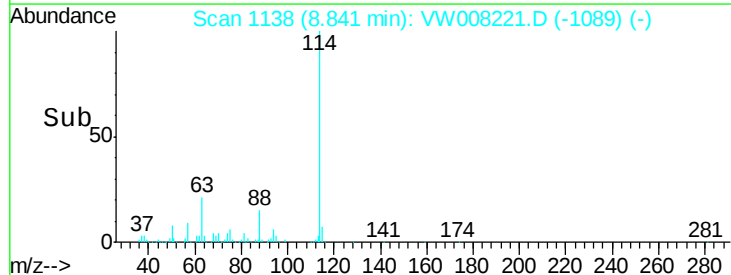
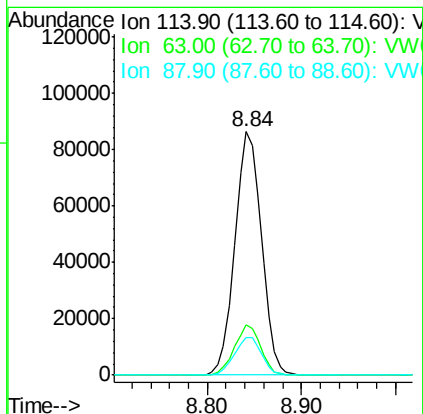
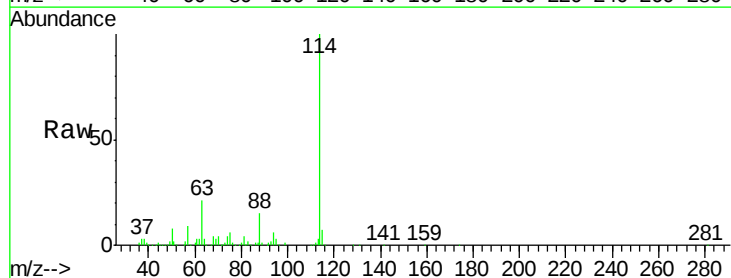
Tgt Ion: 114 Resp: 169478

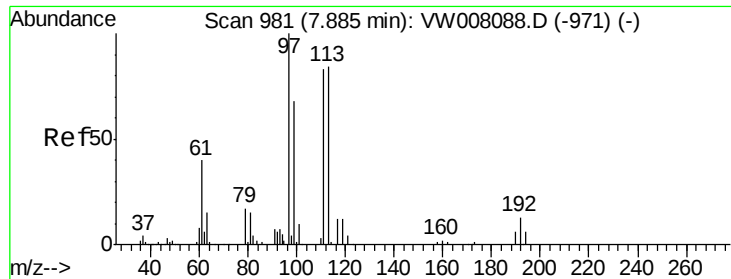
Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.4

88 15.4 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.422 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

Instrument :

MSVOA\_W

ClientSampleId :

DS-D

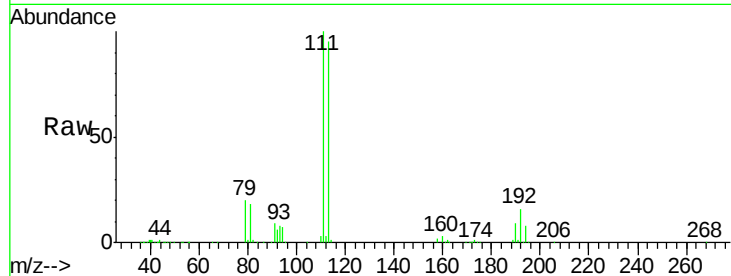
Tot Ion:113 Resp: 51817

Ion Ratio Lower Upper

113 100

111 105.2 81.8 122.8

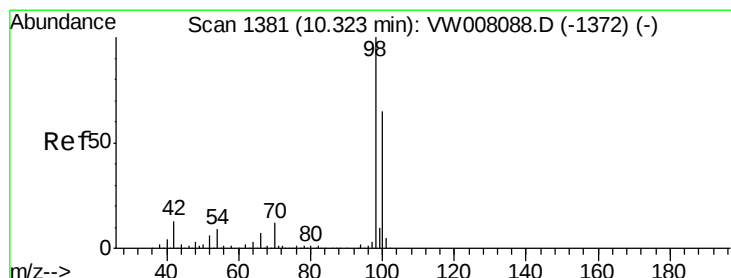
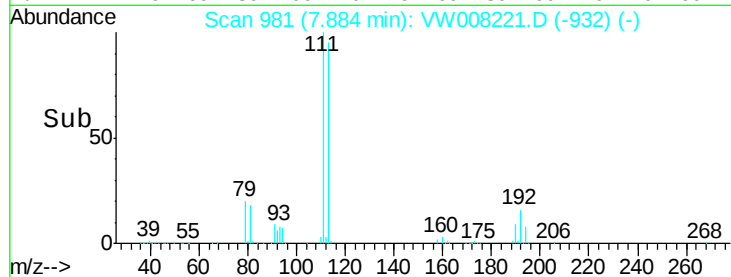
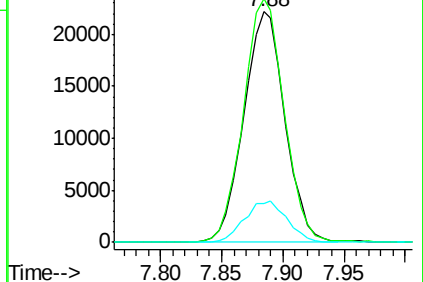
192 18.4 12.8 19.2



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: 51.922 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008221.D

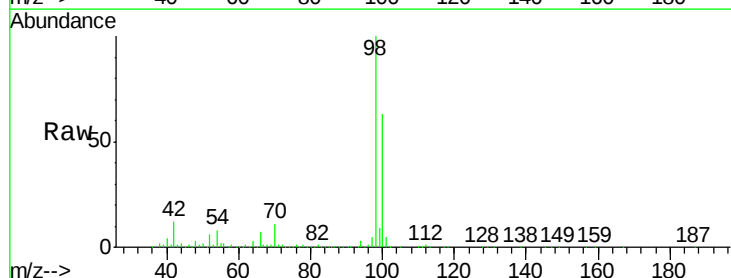
Acq: 12 Jan 2019 05:22

Tgt Ion: 98 Resp: 215372

Ion Ratio Lower Upper

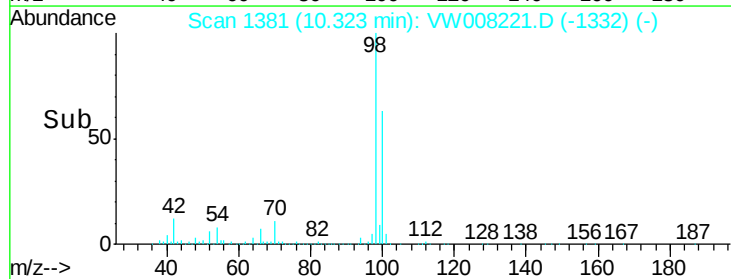
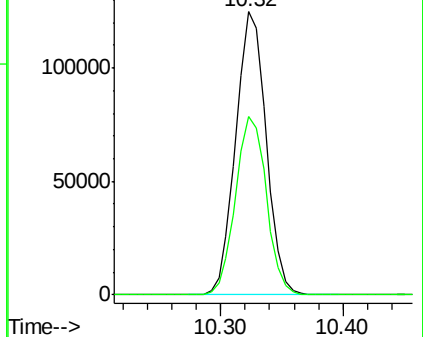
98 100

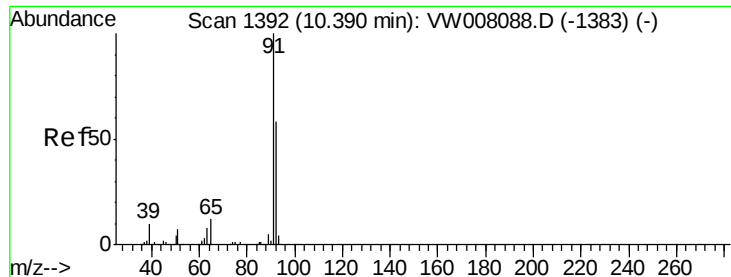
100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 8.772 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

Instrument :

MSVOA\_W

ClientSampleId :

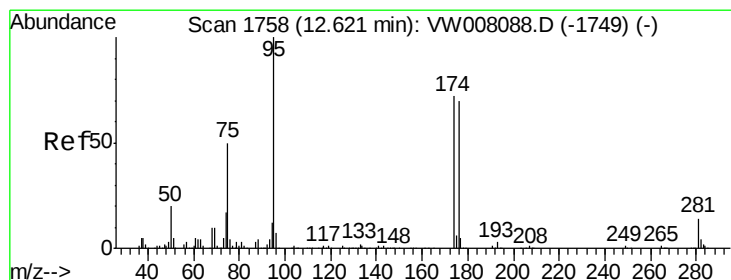
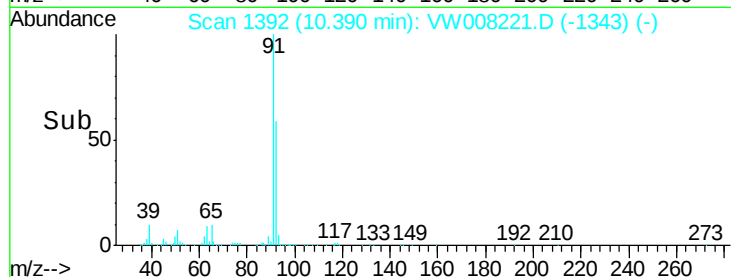
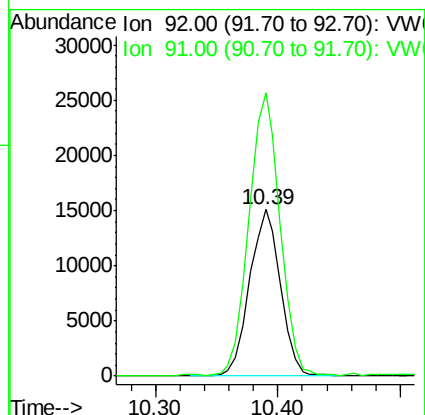
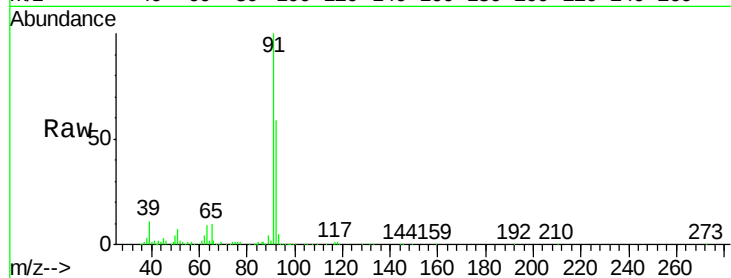
DS-D

Tot Ion: 92 Resp: 26527

Ion Ratio Lower Upper

92 100

91 170.2 137.0 205.4



#62

4-Bromofluorobenzene

Concen: 47.334 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

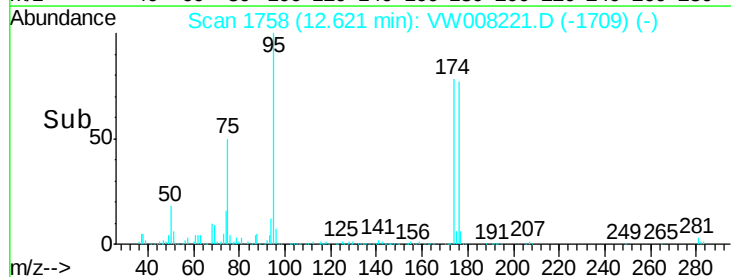
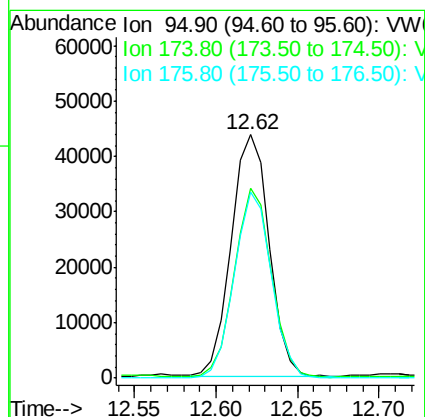
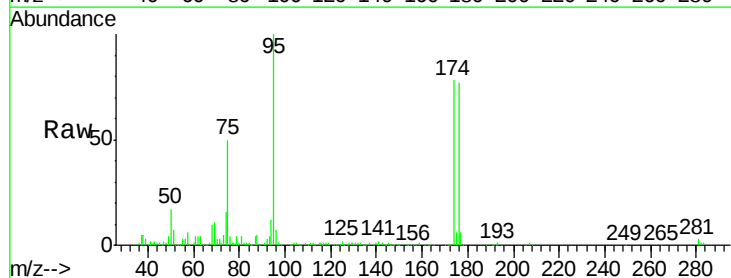
Tgt Ion: 95 Resp: 70388

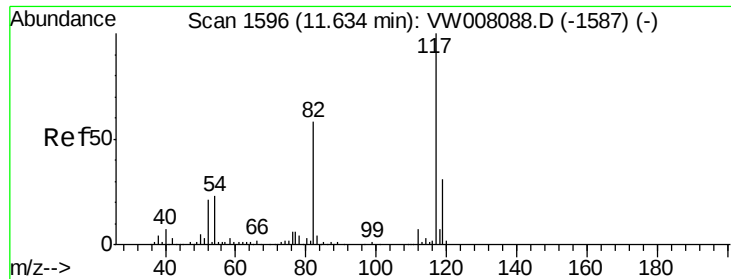
Ion Ratio Lower Upper

95 100

174 77.0 0.0 143.0

176 75.6 0.0 140.2

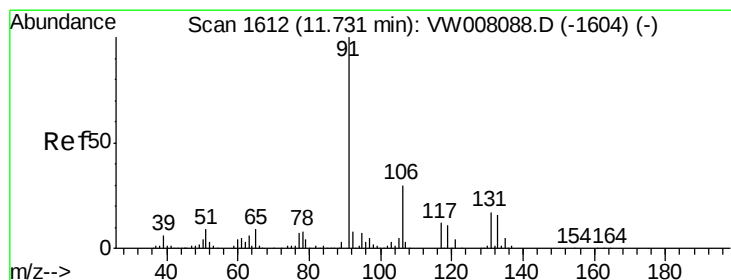
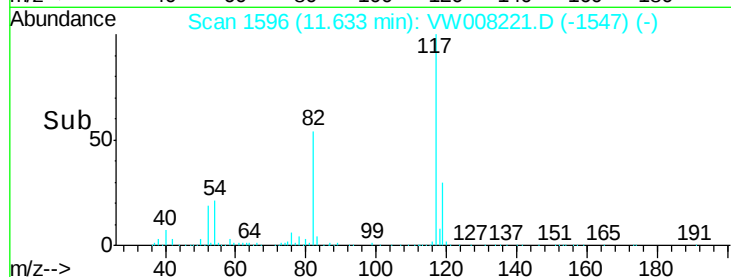
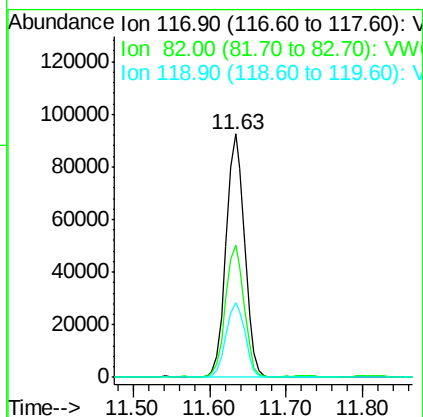
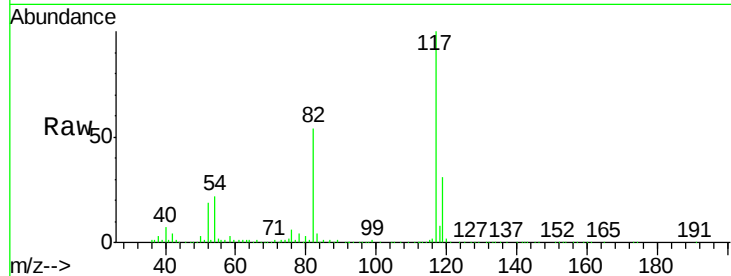




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

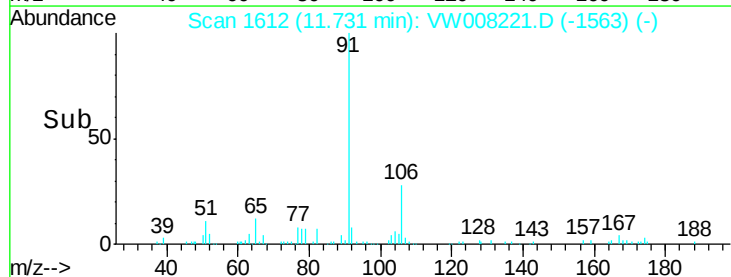
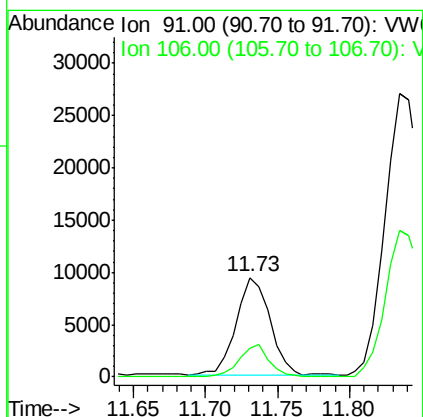
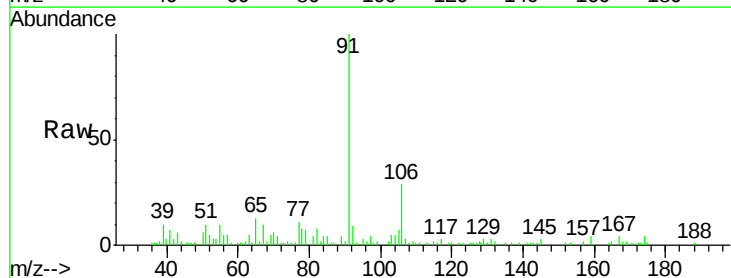
Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-D

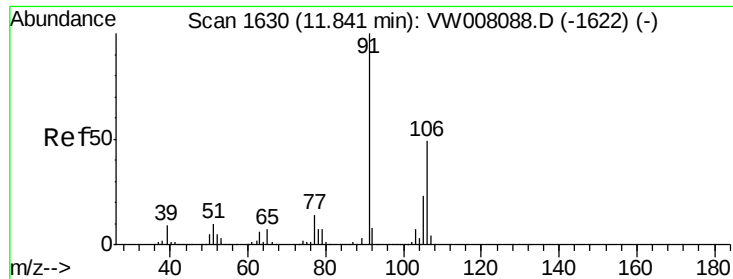
Tot Ion:117 Resp: 154956  
Ion Ratio Lower Upper  
117 100  
82 54.0 46.4 69.6  
119 30.5 24.7 37.1



#67  
Ethyl Benzene  
Concen: 2.541 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

Tgt Ion: 91 Resp: 15262  
Ion Ratio Lower Upper  
91 100  
106 29.7 24.2 36.4

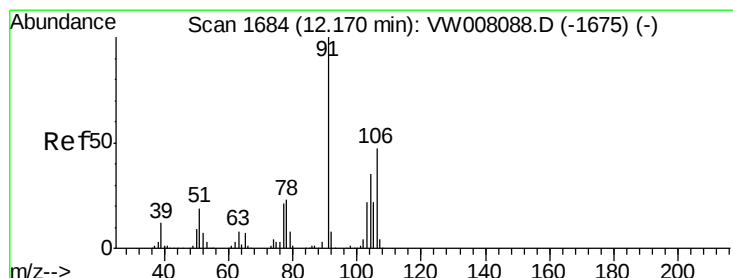
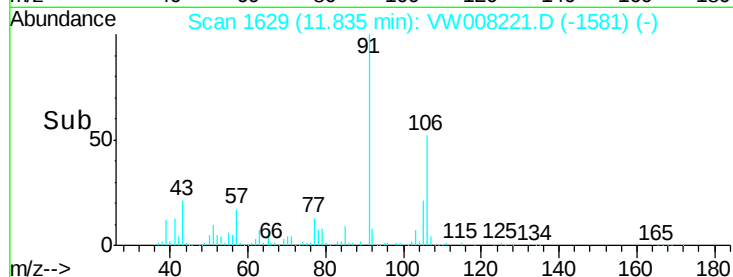
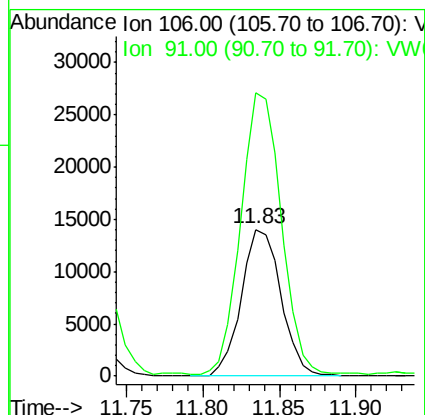
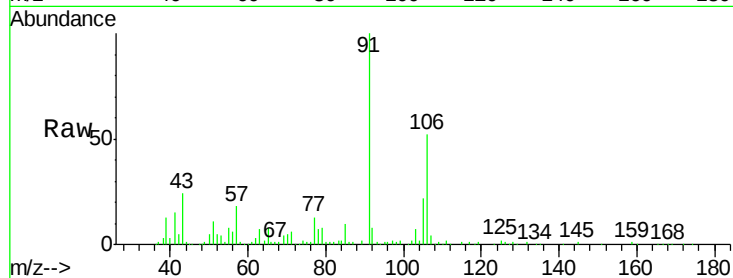




#68  
m/p-Xylenes  
Concen: 11.088 ug/l  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

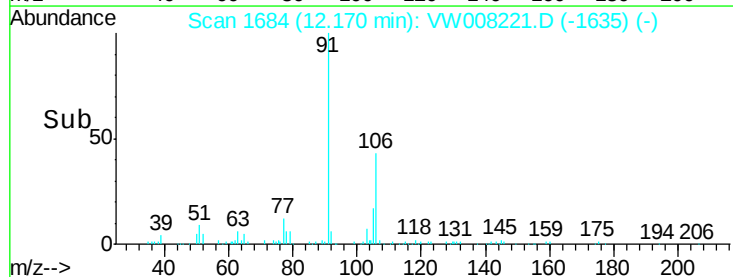
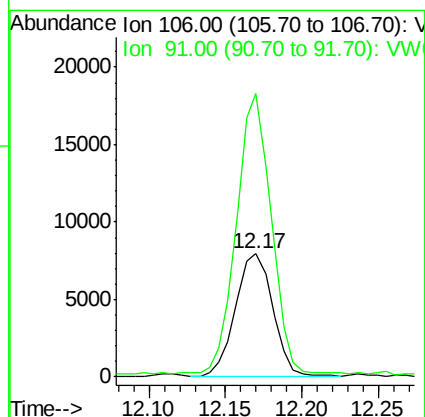
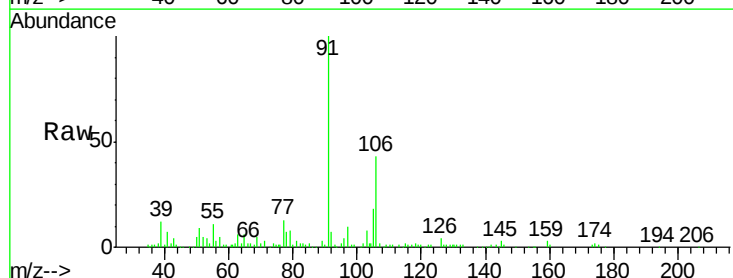
Instrument :  
MSVOA\_W  
ClientSampled :  
DS-D

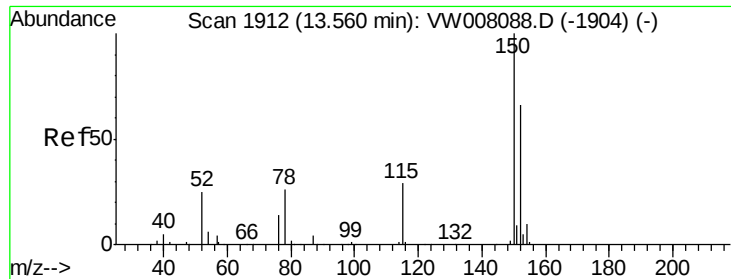
Tot Ion:106 Resp: 25421  
Ion Ratio Lower Upper  
106 100  
91 193.8 162.4 243.6



#69  
o-Xylene  
Concen: 6.440 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

Tgt Ion:106 Resp: 13674  
Ion Ratio Lower Upper  
106 100  
91 208.1 107.8 323.6



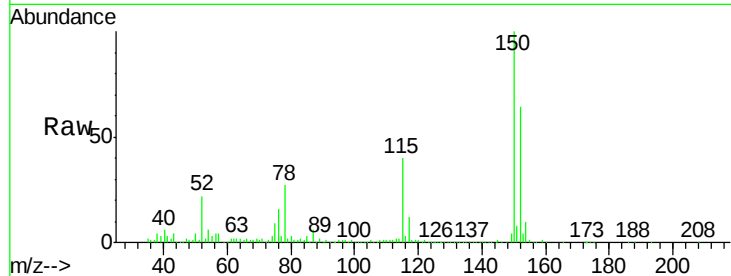


#72

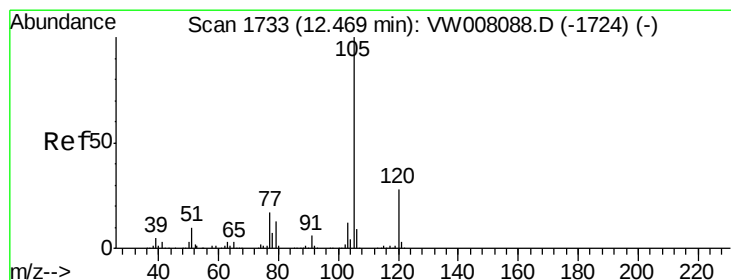
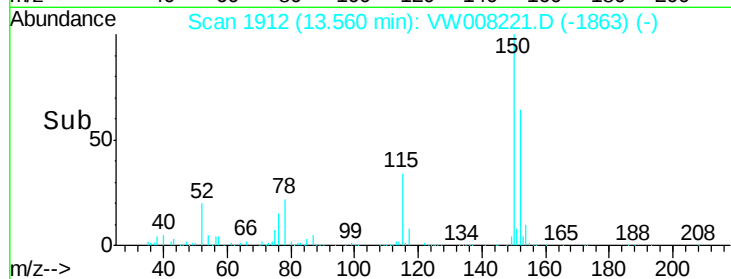
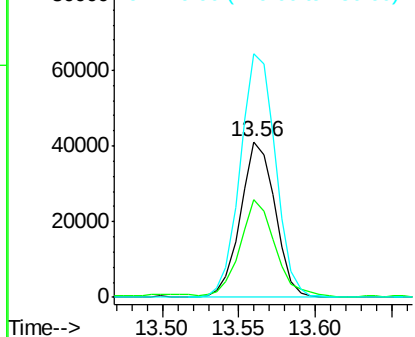
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

Instrument :  
MSVOA\_W  
ClientSampled :  
DS-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 64.0  | 30.8  | 92.4  |
| 150     | 161.0 | 0.0   | 350.2 |



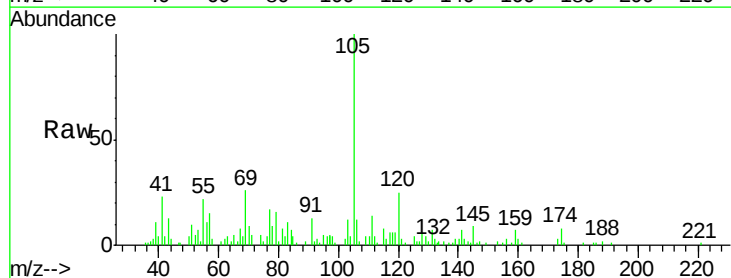
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



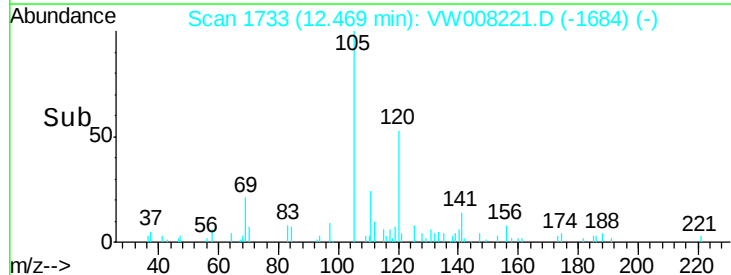
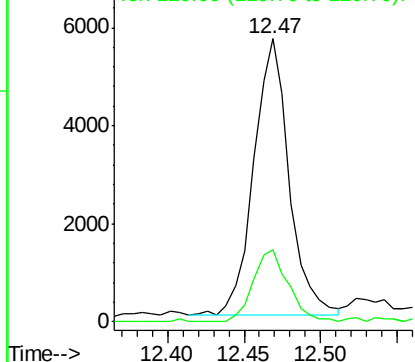
#73

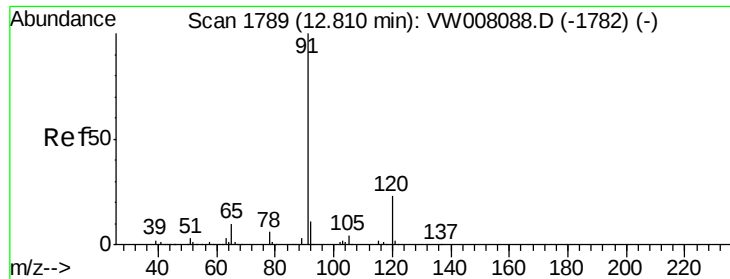
Isopropylbenzene  
Concen: 1.813 ug/l  
RT: 12.47 min Scan# 1733  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.8  | 13.6  | 40.8  |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 3.552 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VW008221.D

Acq: 12 Jan 2019 05:22

Instrument :

MSVOA\_W

ClientSampleId :

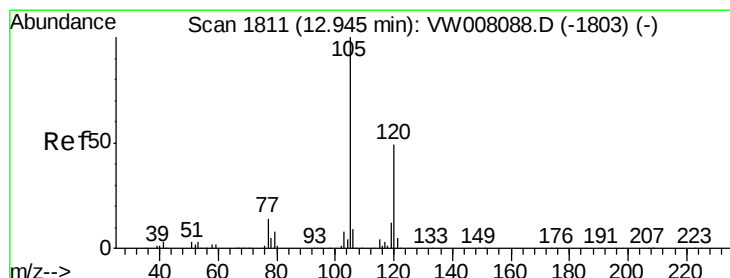
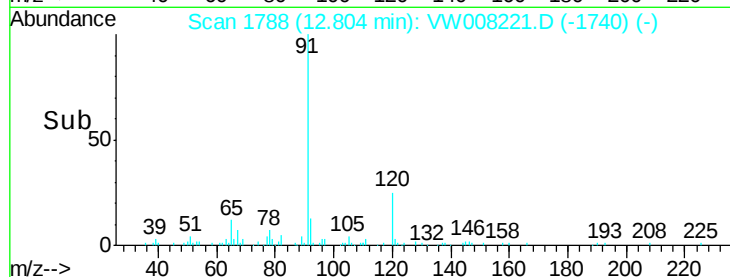
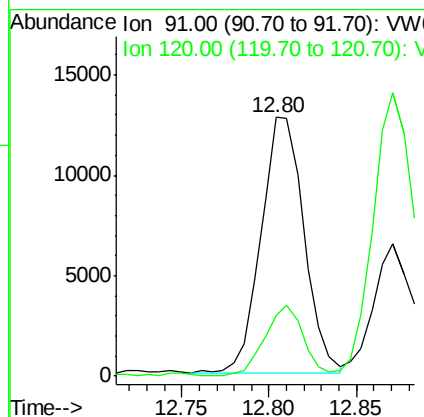
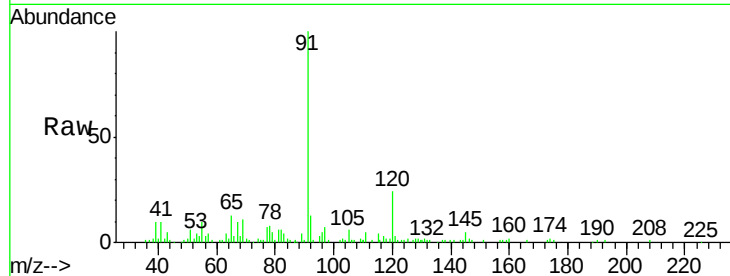
DS-D

Tot Ion: 91 Resp: 21909

Ion Ratio Lower Upper

91 100

120 24.7 11.3 33.8



#80

1,3,5-Trimethylbenzene

Concen: 8.135 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW008221.D

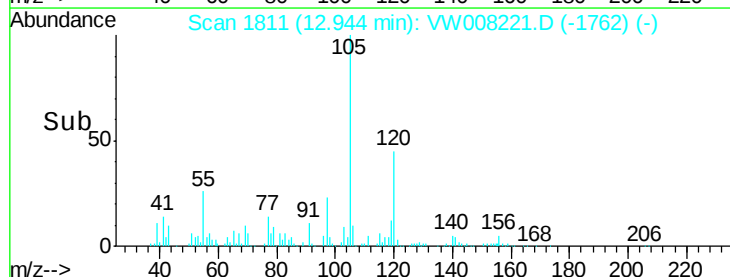
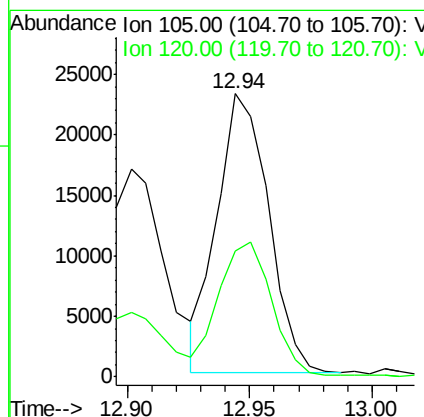
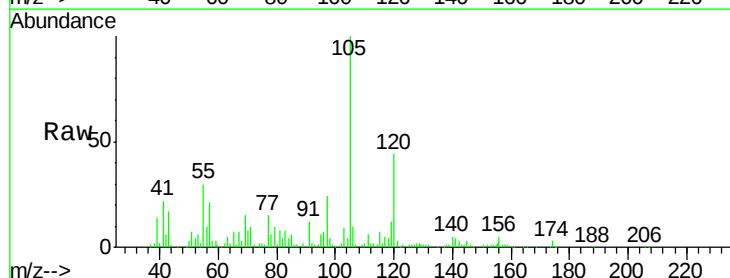
Acq: 12 Jan 2019 05:22

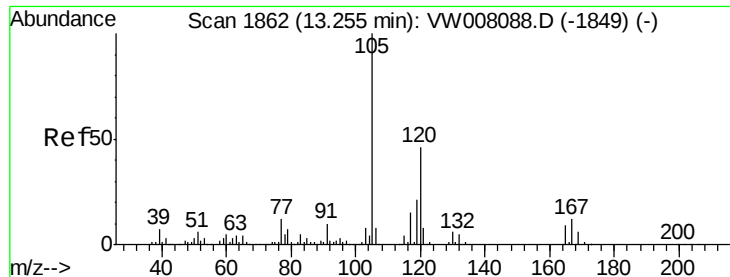
Tgt Ion: 105 Resp: 33648

Ion Ratio Lower Upper

105 100

120 49.6 24.7 74.1

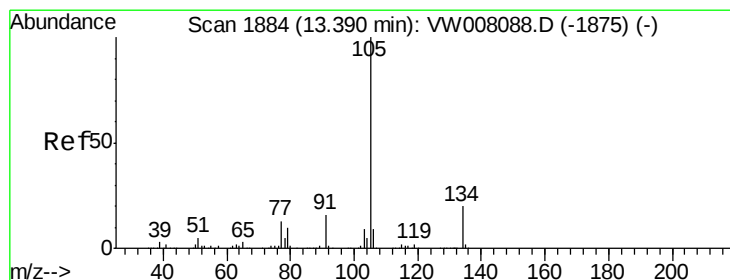
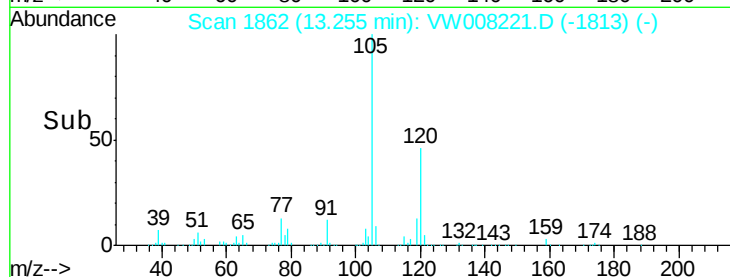
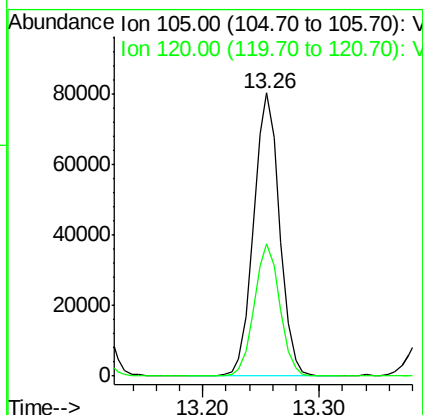
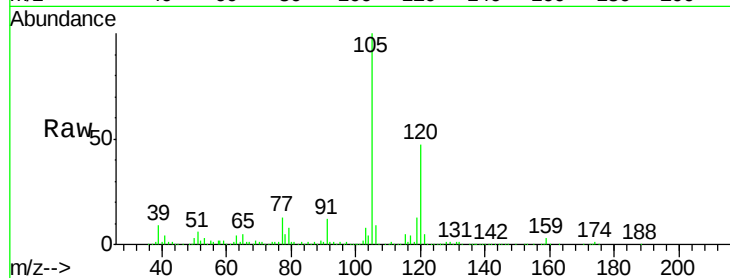




#84  
1,2,4-Trimethylbenzene  
Concen: 28.899 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

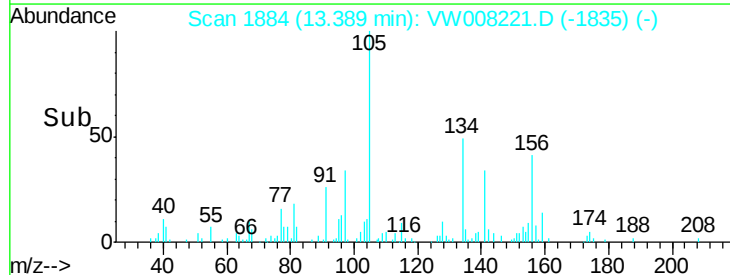
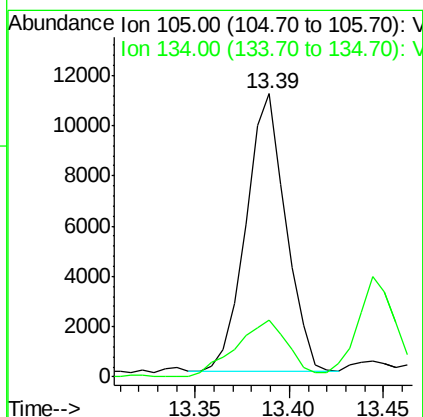
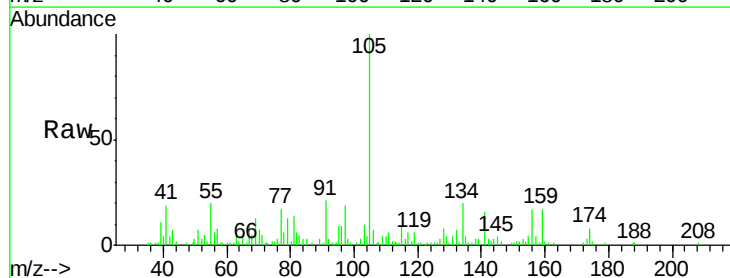
Instrument :  
MSVOA\_W  
ClientSampleID :  
DS-D

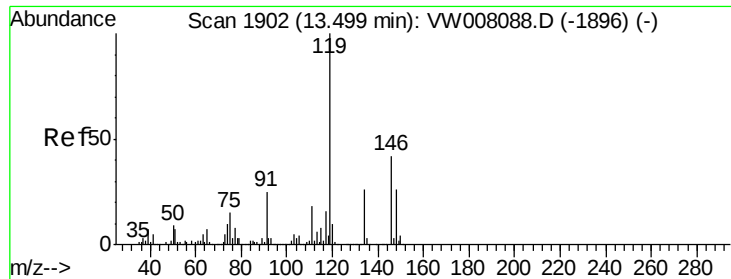
Tot Ion:105 Resp: 123288  
Ion Ratio Lower Upper  
105 100  
120 46.7 22.7 68.1



#85  
sec-Butylbenzene  
Concen: 3.026 ug/l  
RT: 13.39 min Scan# 1884  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

Tgt Ion:105 Resp: 16223  
Ion Ratio Lower Upper  
105 100  
134 26.6 10.1 30.1

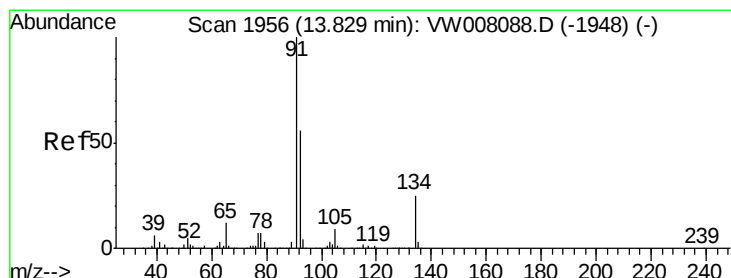
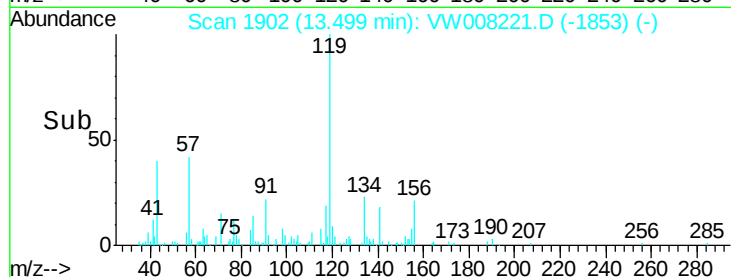
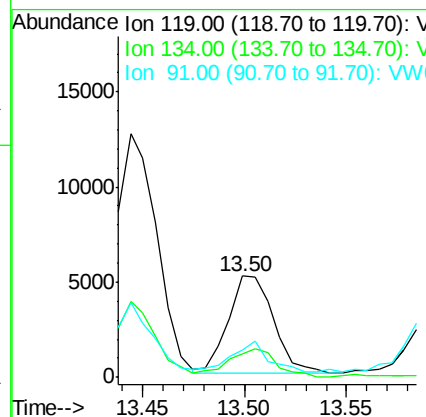
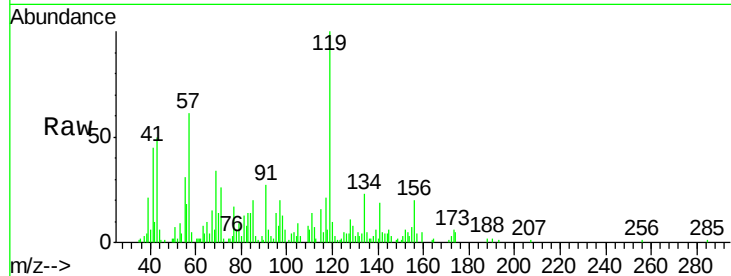




#86  
p-Isopropyltoluene  
Concen: 1.689 ug/l  
RT: 13.50 min Scan# 1902  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

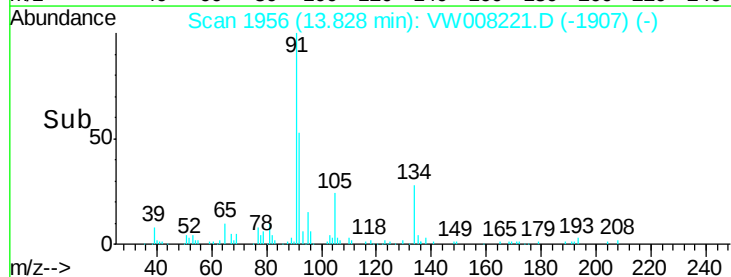
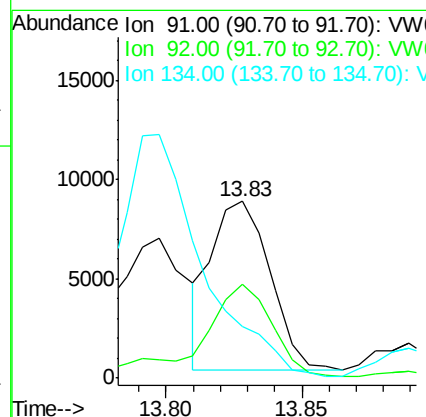
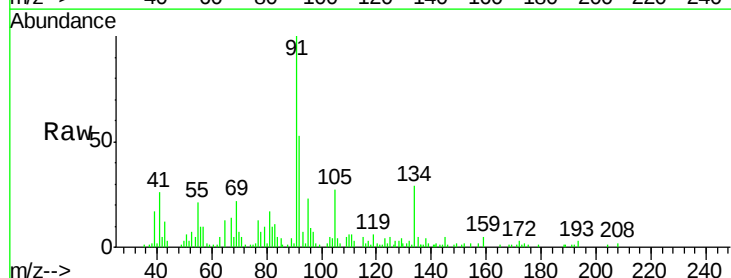
Instrument :  
MSVOA\_W  
ClientSampled :  
DS-D

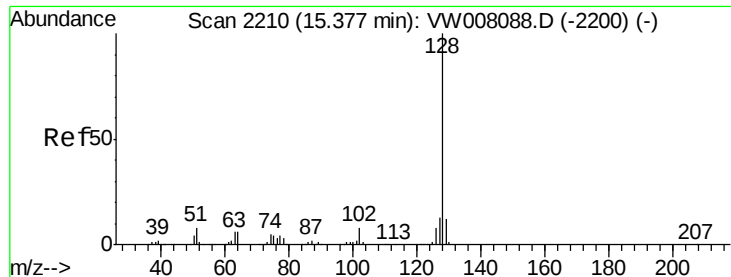
Tot Ion:119 Resp: 7819  
Ion Ratio Lower Upper  
119 100  
134 31.3 13.3 39.8  
91 24.9 12.3 36.9



#89  
n-Butylbenzene  
Concen: 2.807 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

Tgt Ion: 91 Resp: 12725  
Ion Ratio Lower Upper  
91 100  
92 65.2 27.4 82.2  
134 0.0 12.6 37.8#

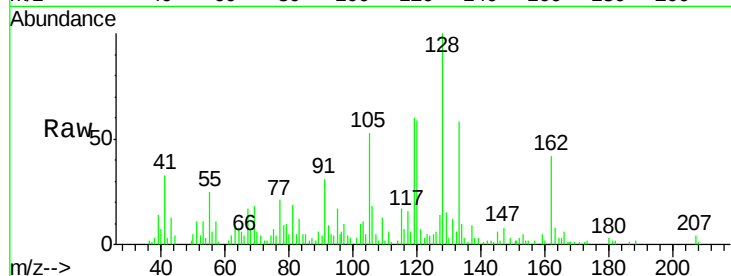




#95  
Naphthalene  
Concen: 3.650 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW008221.D  
Acq: 12 Jan 2019 05:22

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-D

Tot Ion:128 Resp: 8580  
Ion Ratio Lower Upper  
128 100  
127 11.0 11.0 16.4  
129 8.9 9.0 13.6#



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

