

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\  
 Data File : VW013186.D  
 Acq On : 20 Sep 2019 17:07  
 Operator : SY/VA  
 Sample : K4669-04  
 Misc : 4.48G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TR-04-091719

Quant Time: Sep 20 18:25:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 20 15:58:08 2019  
 Response via : Initial Calibration

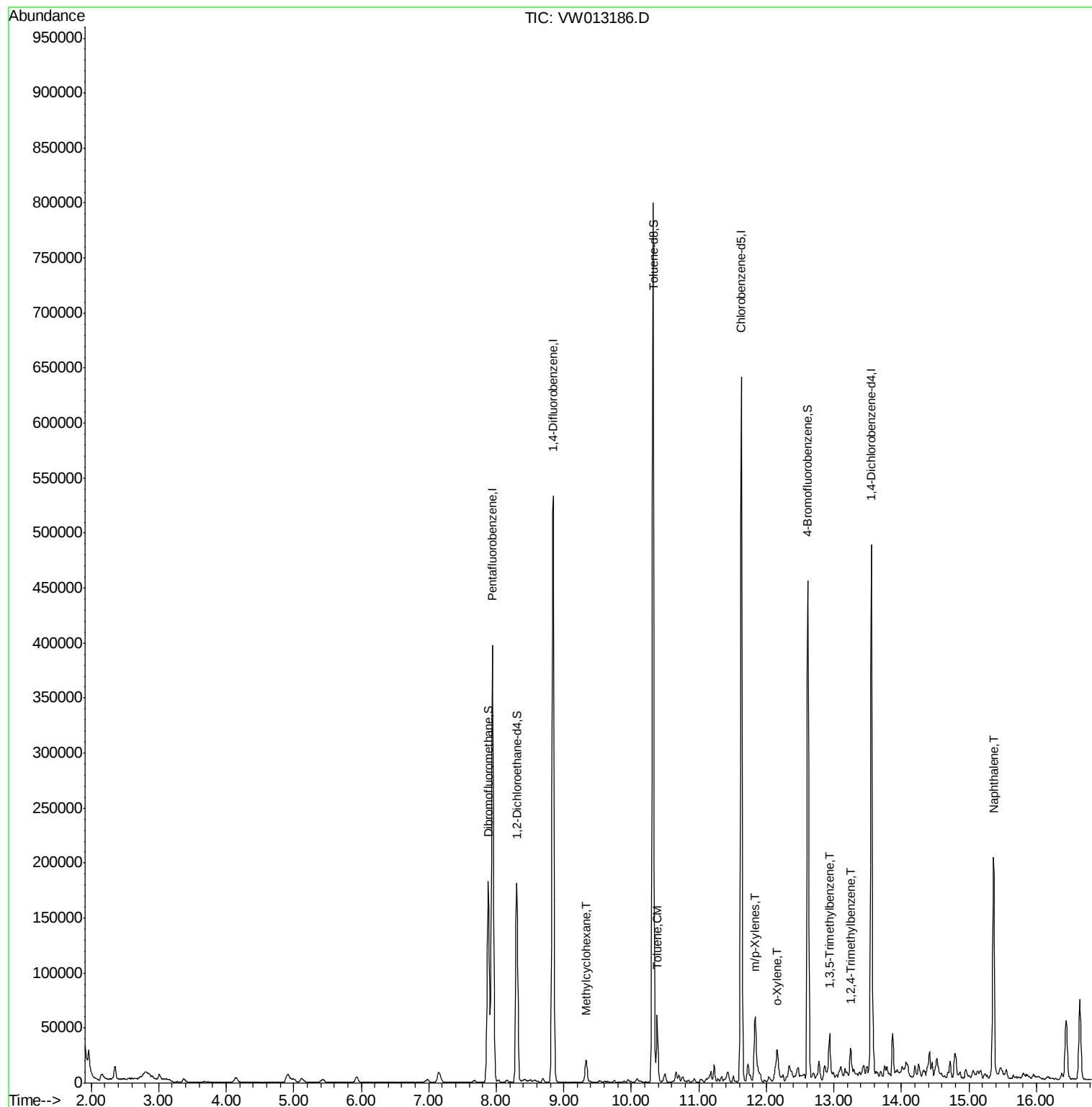
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 314489   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 478196   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 373227   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 135804   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 141462   | 55.11  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 110.22% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 136058   | 51.73  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.46% |          |
| 50) Toluene-d8              | 10.32 | 98   | 536900   | 48.78  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.56%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 150780   | 40.10  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 80.20%  |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 39) Methylcyclohexane       | 9.33  | 83   | 8649     | 1.453  | ug/l    | 96       |
| 52) Toluene                 | 10.39 | 92   | 26811    | 3.238  | ug/l    | 96       |
| 68) m/p-Xylenes             | 11.83 | 106  | 16488    | 3.064  | ug/l    | 100      |
| 69) o-Xylene                | 12.16 | 106  | 6932     | 1.386  | ug/l    | 96       |
| 80) 1,3,5-Trimethylbenzene  | 12.94 | 105  | 10608    | 1.258  | ug/l    | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.25 | 105  | 15200    | 1.811  | ug/l    | 97       |
| 95) Naphthalene             | 15.36 | 128  | 177016   | 38.159 | ug/l    | 100      |

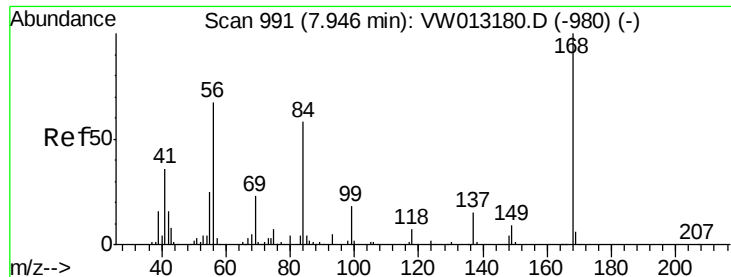
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW092019\  
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Quant Time: Sep 20 18:25:01 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W092019S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 20 15:58:08 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: VW013186.D

Acq: 20 Sep 2019 17:07

Instrument :

MSVOA\_W

ClientSampleId :

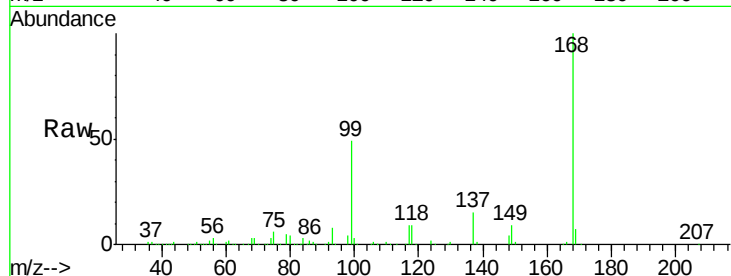
TR-04-091719

Tot Ion:168 Resp: 314489

Ion Ratio Lower Upper

168 100

99 49.3 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

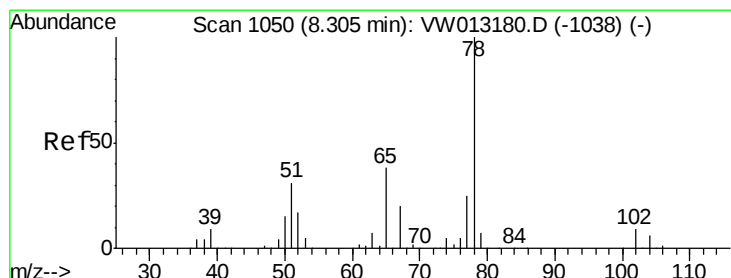
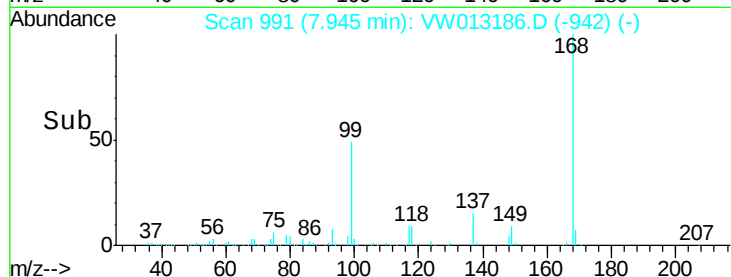
100000

50000

0

7.90 8.00

Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.115 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013186.D

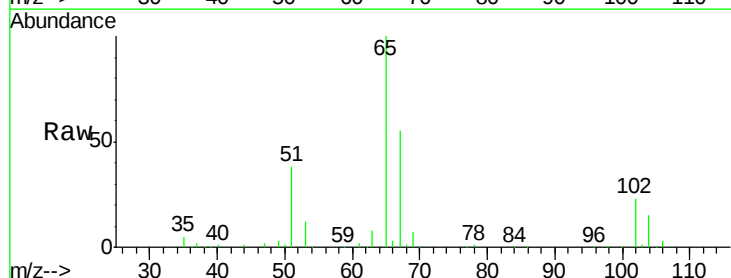
Acq: 20 Sep 2019 17:07

Tgt Ion: 65 Resp: 141462

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

60000

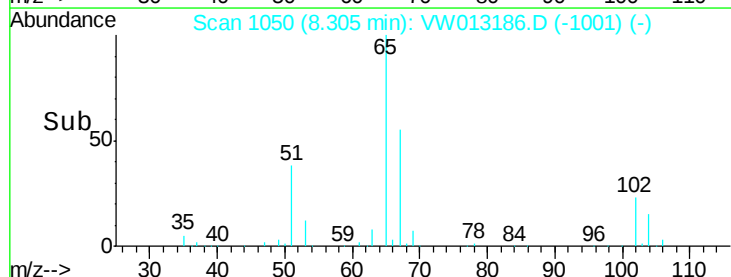
40000

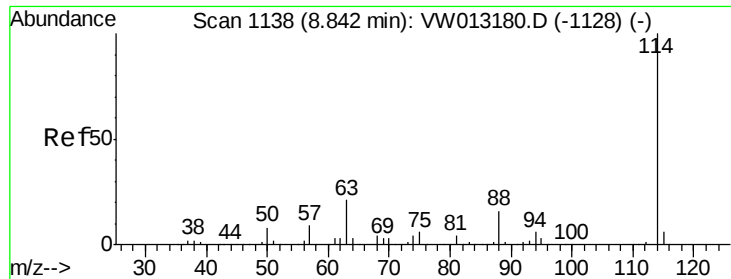
20000

0

8.20 8.30 8.40

Time-->

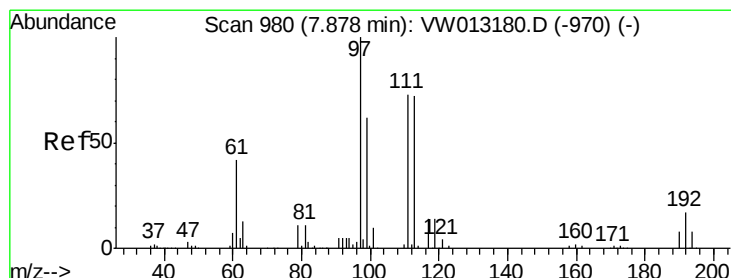
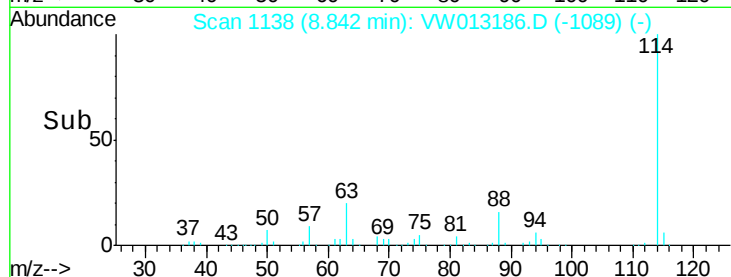
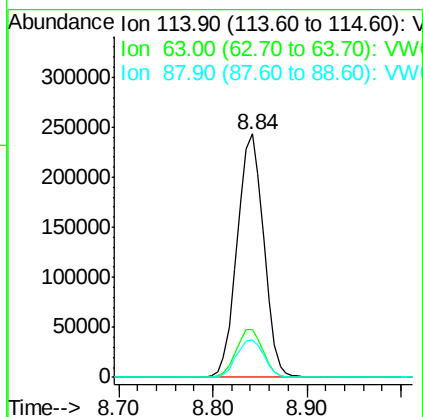
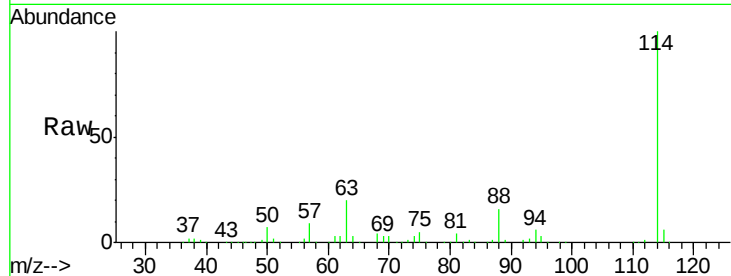




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW013186.D  
 Acq: 20 Sep 2019 17:07

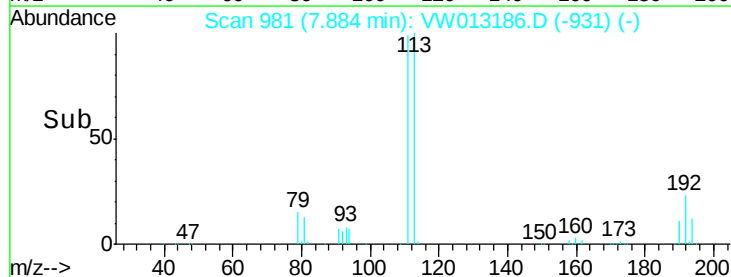
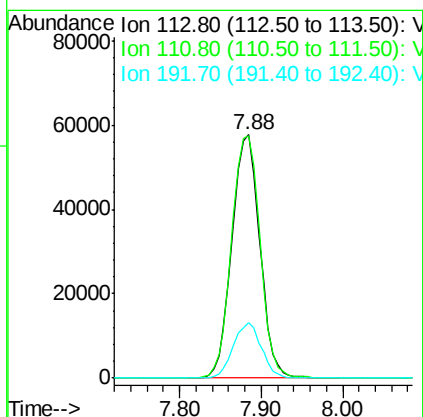
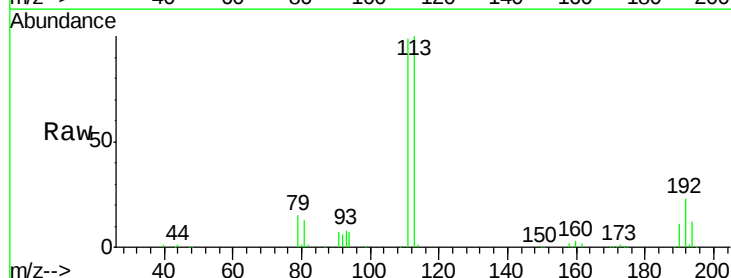
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 MSVOA\_W  
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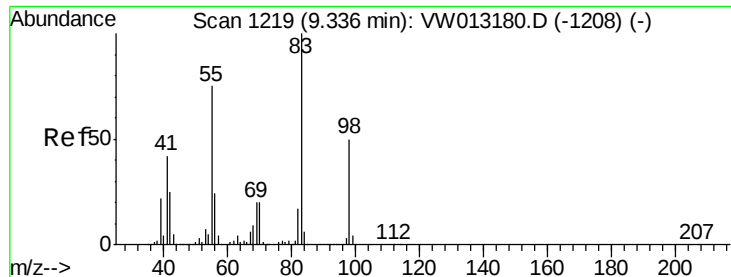
Tot Ion:114 Resp: 478196  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 41.4  
 88 15.5 0.0 32.0



#35  
 Dibromofluoromethane  
 Concen: 51.731 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.01 min  
 Lab File: VW013186.D  
 Acq: 20 Sep 2019 17:07

Tgt Ion:113 Resp: 136058  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 81.9 122.9  
 192 22.7 19.1 28.7

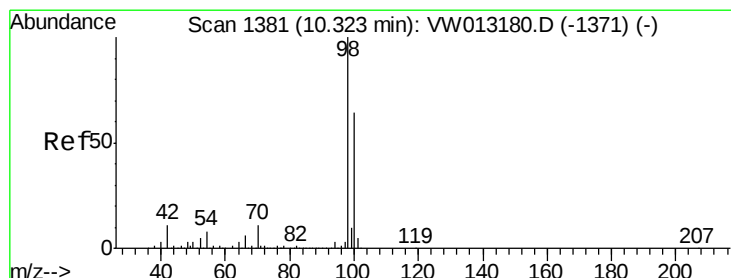
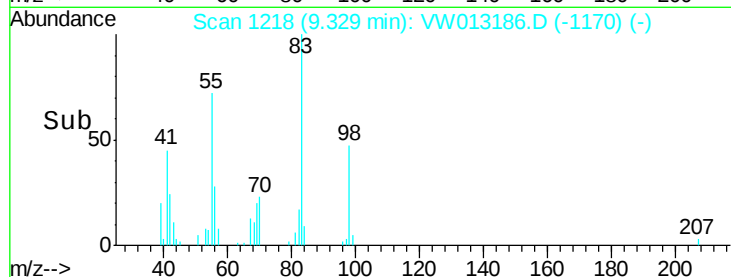
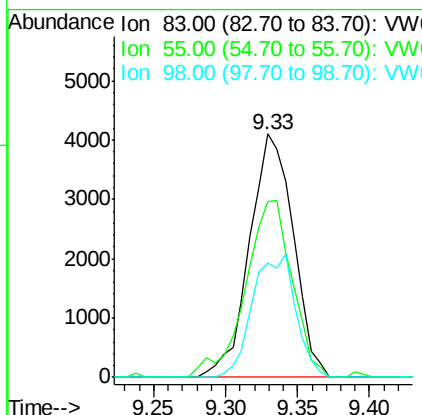
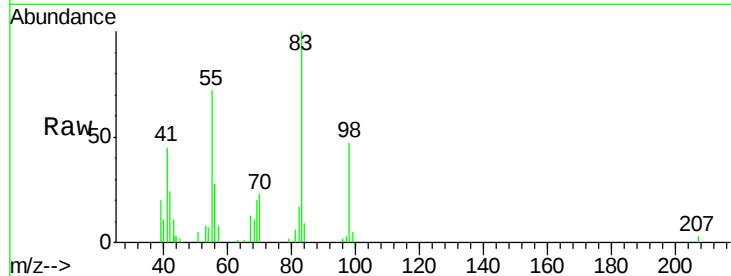




#39  
Methvlcvclohexane  
Concen: 1.453 ug/l  
RT: 9.33 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: VW013186.D  
Acq: 20 Sep 2019 17:07

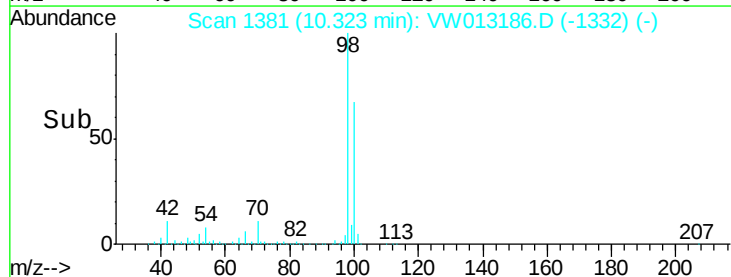
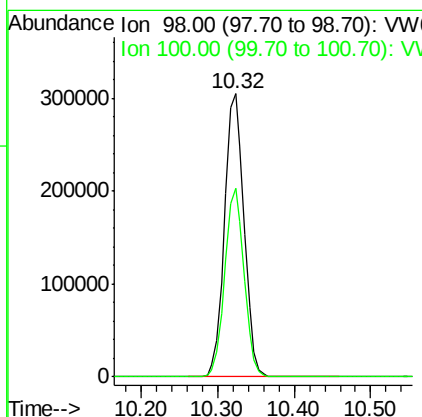
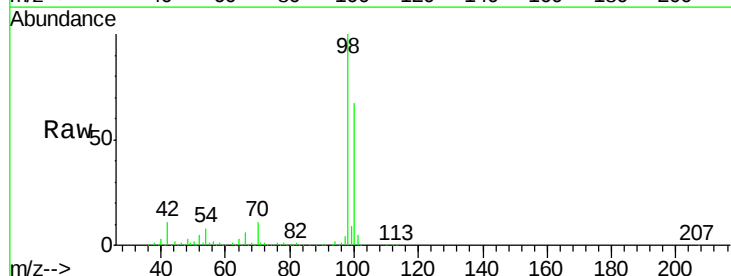
Instrument :  
MSVOA\_W  
ClientSampled :  
TR-04-091719

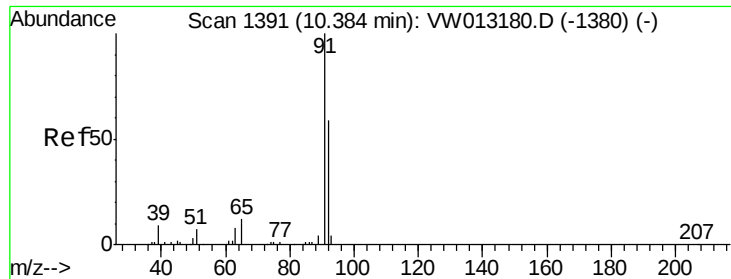
Tot Ion: 83 Resp: 8649  
Ion Ratio Lower Upper  
83 100  
55 72.1 60.4 90.6  
98 47.2 40.0 60.0



#50  
Toluene-d8  
Concen: 48.777 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW013186.D  
Acq: 20 Sep 2019 17:07

Tgt Ion: 98 Resp: 536900  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.9 79.3





#52

Toluene

Concen: 3.238 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW013186.D

Acq: 20 Sep 2019 17:07

Instrument :

MSVOA\_W

ClientSampled :

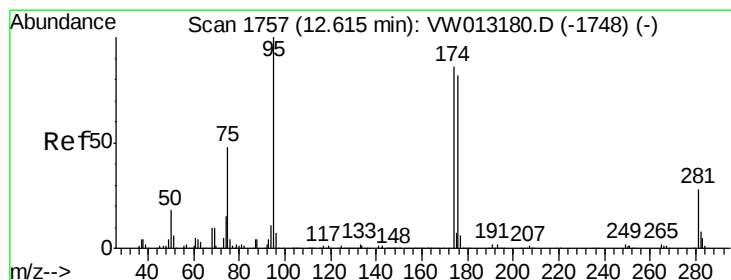
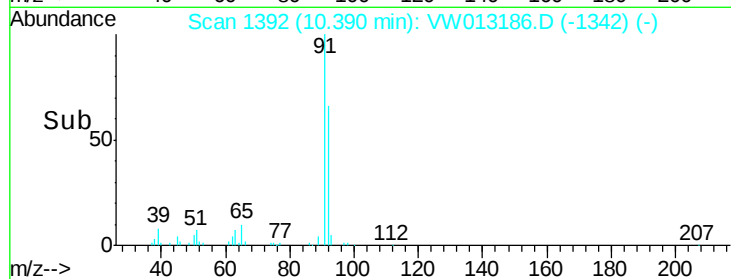
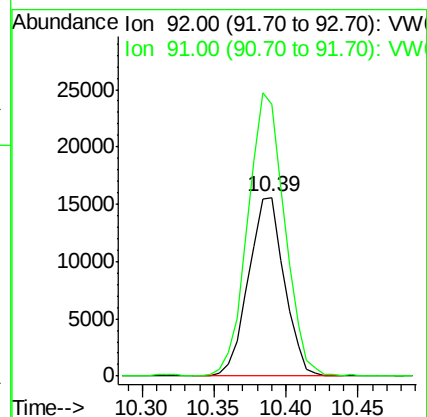
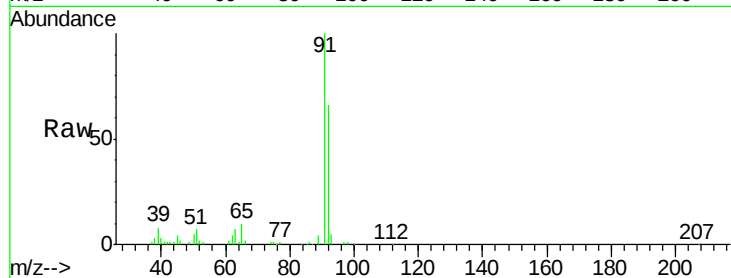
TR-04-091719

Tot Ion: 92 Resp: 26811

Ion Ratio Lower Upper

92 100

91 163.6 135.7 203.5



#62

4-Bromofluorobenzene

Concen: 40.102 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013186.D

Acq: 20 Sep 2019 17:07

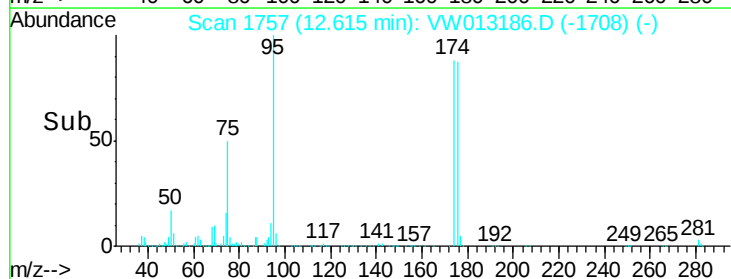
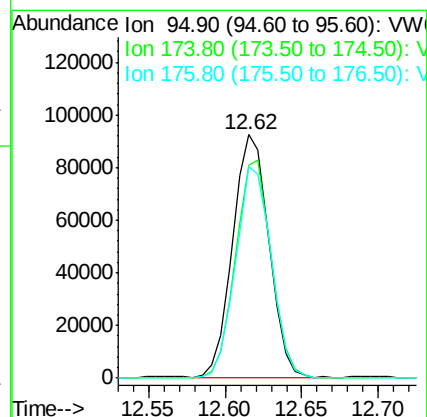
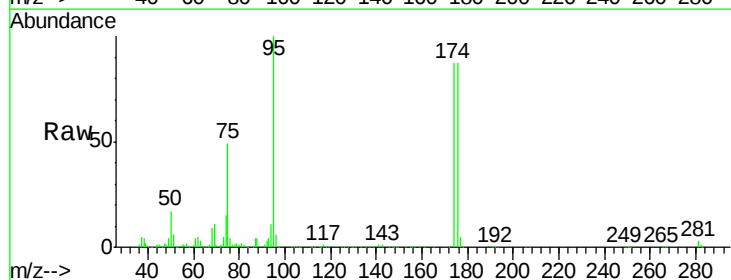
Tgt Ion: 95 Resp: 150780

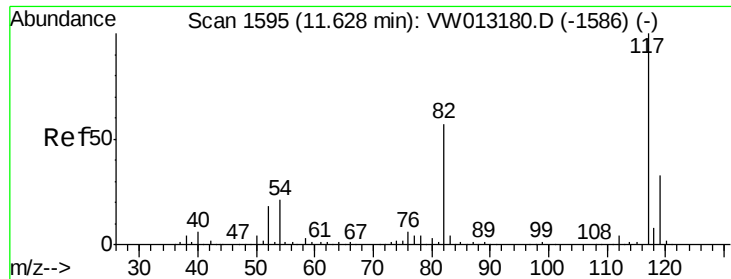
Ion Ratio Lower Upper

95 100

174 89.2 0.0 178.4

176 86.6 0.0 172.2

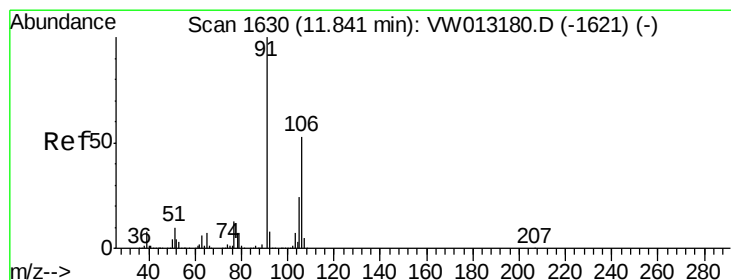
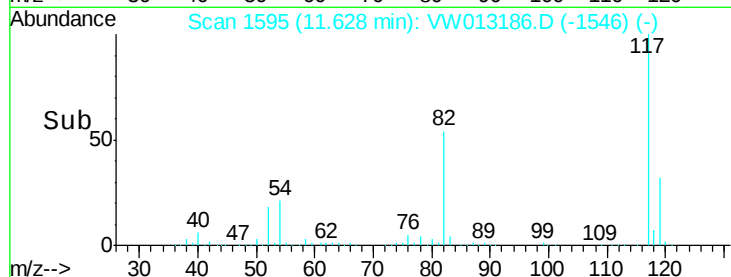
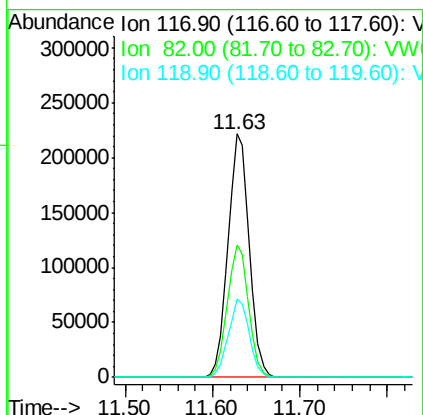
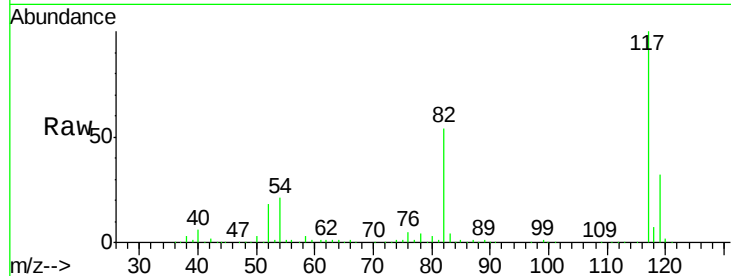




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW013186.D  
Acq: 20 Sep 2019 17:07

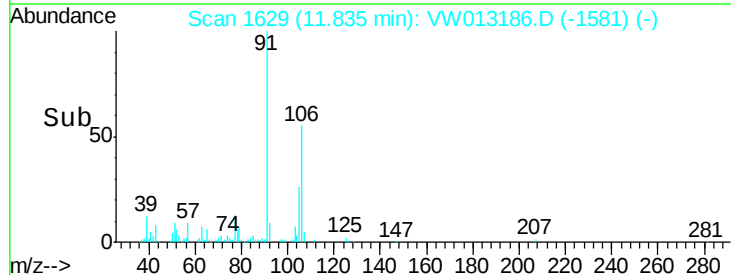
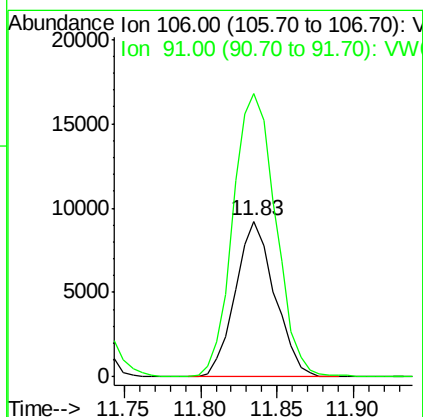
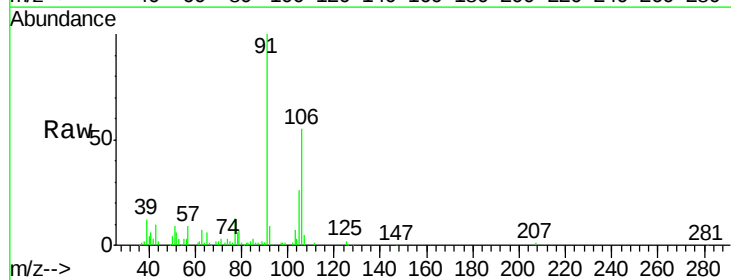
Instrument :  
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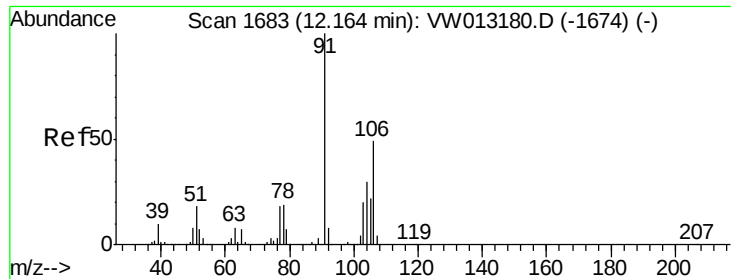
Tot Ion:117 Resp: 373227  
Ion Ratio Lower Upper  
117 100  
82 54.3 45.9 68.9  
119 32.0 26.2 39.2



#68  
m/p-Xylenes  
Concen: 3.064 ug/l  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW013186.D  
Acq: 20 Sep 2019 17:07

Tgt Ion:106 Resp: 16488  
Ion Ratio Lower Upper  
106 100  
91 197.7 157.9 236.9

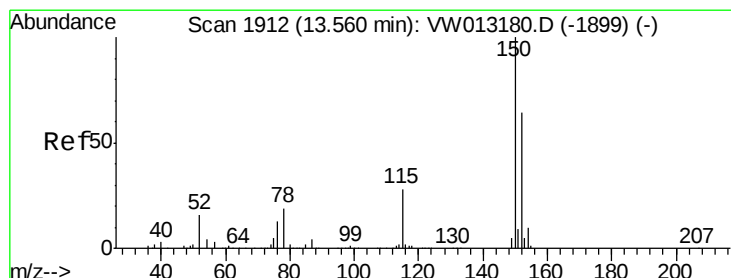
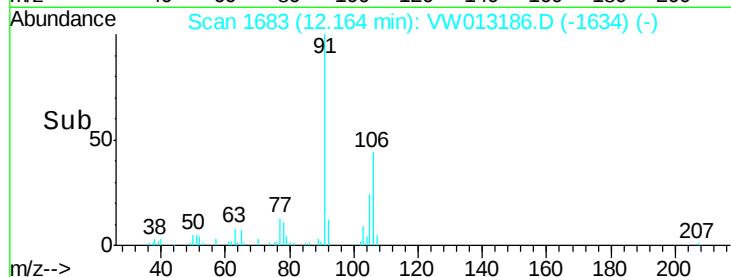
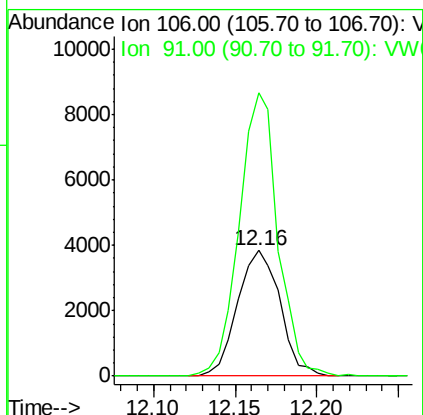
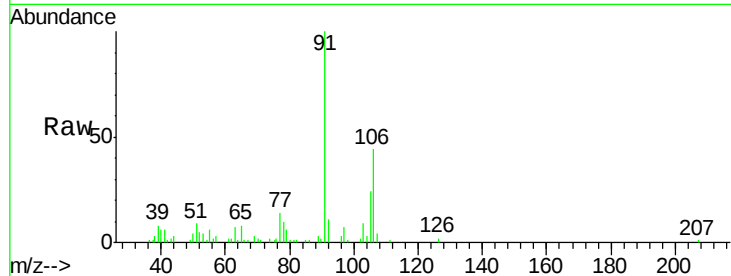




#69  
o-Xylene  
Concen: 1.386 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW013186.D  
Acq: 20 Sep 2019 17:07

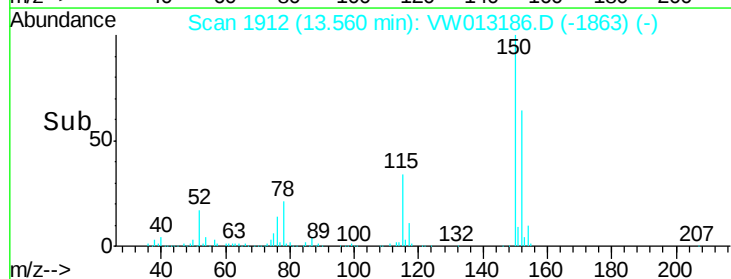
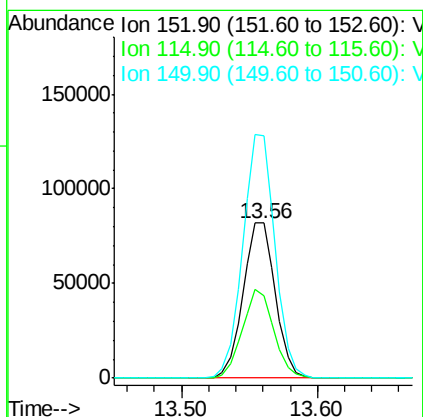
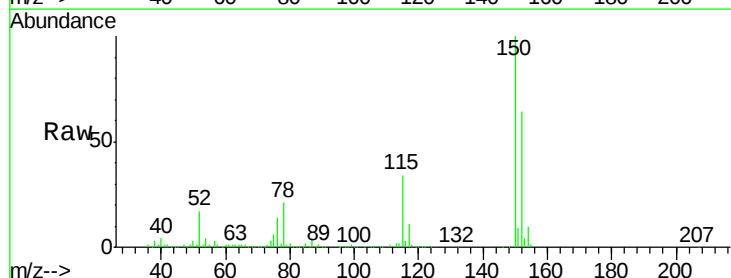
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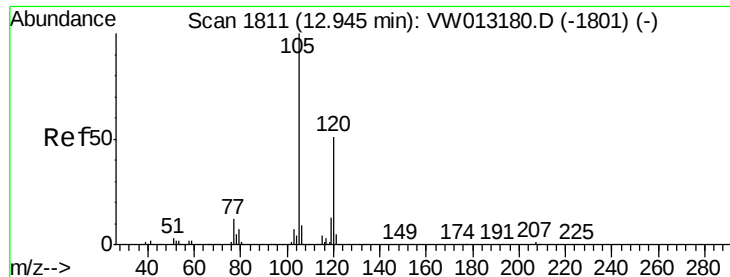
Tot Ion:106 Resp: 6932  
Ion Ratio Lower Upper  
106 100  
91 207.1 106.5 319.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW013186.D  
Acq: 20 Sep 2019 17:07

Tgt Ion:152 Resp: 135804  
Ion Ratio Lower Upper  
152 100  
115 55.8 27.3 81.9  
150 156.4 0.0 349.0





#80

1,3,5-Trimethylbenzene

Concen: 1.258 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. -0.01 min

Lab File: VW013186.D

Acq: 20 Sep 2019 17:07

Instrument :

MSVOA\_W

ClientSampleId :

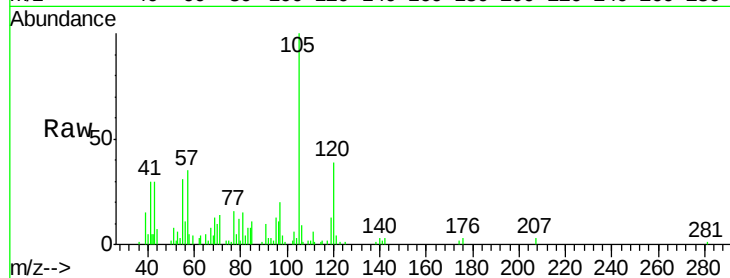
TR-04-091719

Tot Ion:105 Resp: 10608

Ion Ratio Lower Upper

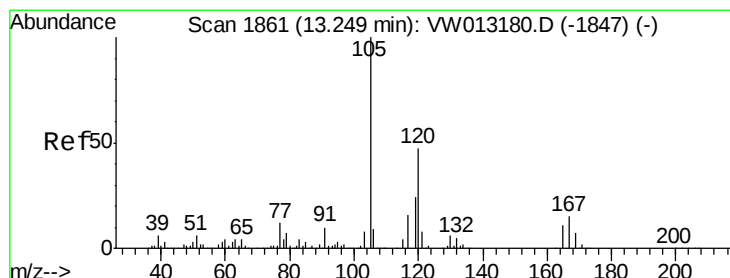
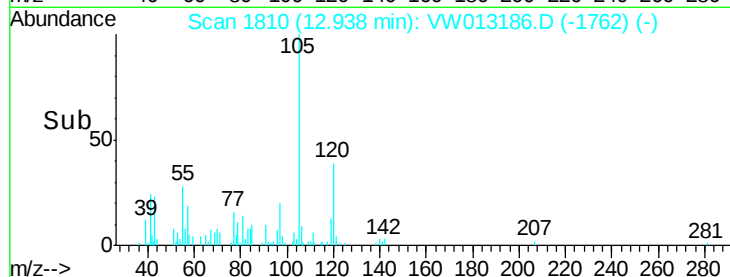
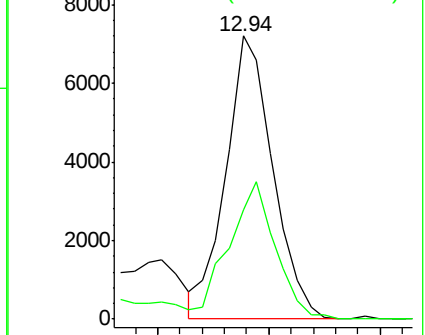
105 100

120 48.2 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1.811 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW013186.D

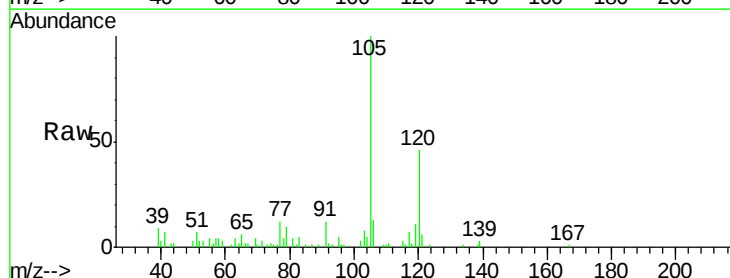
Acq: 20 Sep 2019 17:07

Tgt Ion:105 Resp: 15200

Ion Ratio Lower Upper

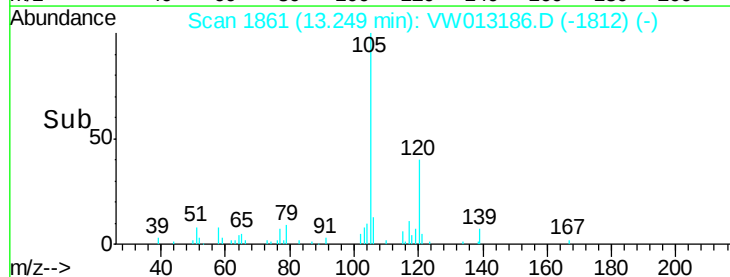
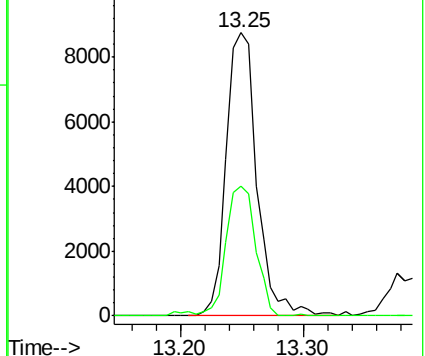
105 100

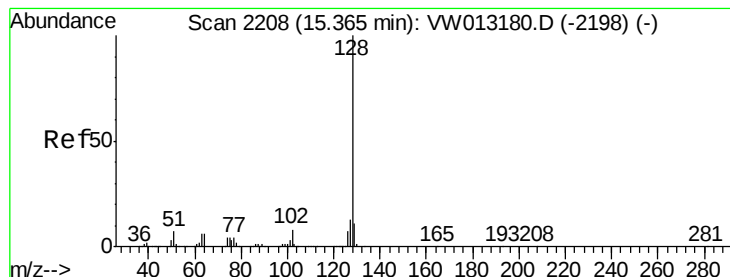
120 45.0 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 38.159 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013186.D

Acq: 20 Sep 2019 17:07

Instrument :

MSVOA\_W

ClientSampleId :

TR-04-091719

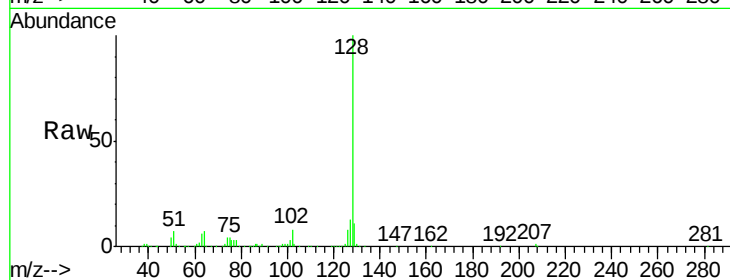
Tot Ion:128 Resp: 177016

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

129 10.9 8.7 13.1



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

