

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\  
 Data File : VN056136.D  
 Acq On : 8 Jun 2019 7:52  
 Operator : JC/SP  
 Sample : K3214-01 50X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1A

Quant Time: Jun 10 02:00:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 323497   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 496669   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 488792   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 218258   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 163073   | 50.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.54% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 141849   | 46.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.10%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 605972   | 51.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.36% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 218709   | 54.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.70% |          |

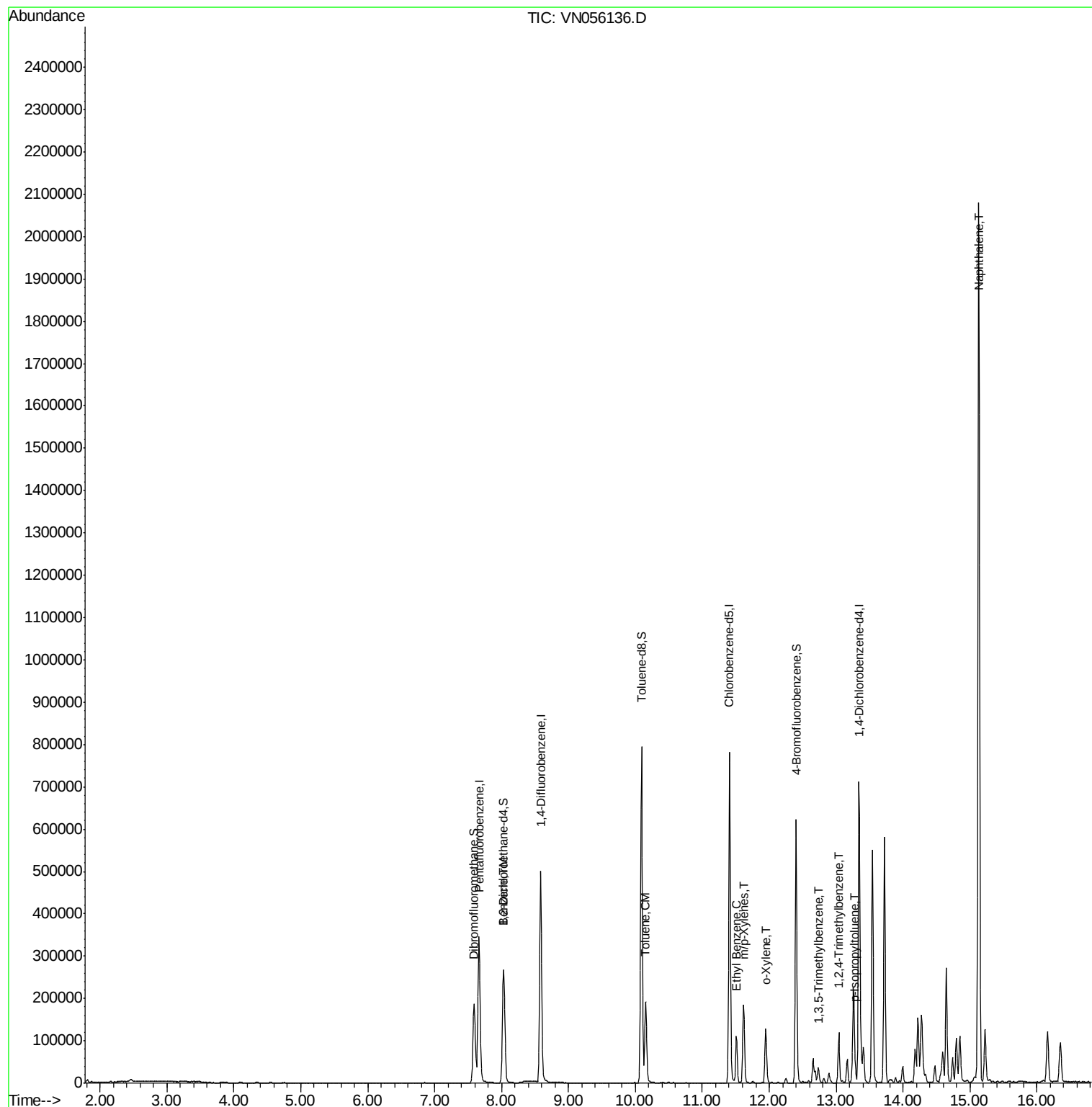
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|----------------------------|-------|------|----------|---------|-------|--------|
| 40) Benzene                | 8.04  | 78   | 115641   | 8.915   | ug/l  | 100    |
| 52) Toluene                | 10.15 | 92   | 89990    | 11.149  | ug/l  | 99     |
| 67) Ethyl Benzene          | 11.51 | 91   | 85784    | 5.071   | ug/l  | 99     |
| 68) m/p-Xylenes            | 11.62 | 106  | 65840    | 10.189  | ug/l  | 95     |
| 69) o-Xylene               | 11.95 | 106  | 37087    | 5.835   | ug/l  | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 20123    | 1.371   | ug/l  | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 67526    | 4.852   | ug/l  | 99     |
| 86) p-Isopropyltoluene     | 13.29 | 119  | 17906    | 1.224   | ug/l  | 96     |
| 95) Naphthalene            | 15.13 | 128  | 1888015  | 170.776 | ug/l  | 100    |

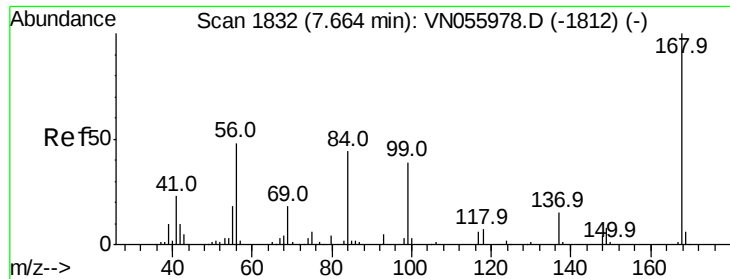
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN060819\  
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Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1A

Quant Time: Jun 10 02:00:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 04 11:02:09 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056136.D

Acq: 8 Jun 2019 7:52

Instrument :

MSVOA\_N

ClientSampleId :

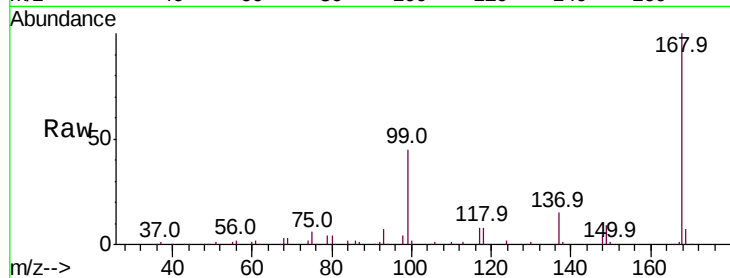
MW-1A

Tot Ion:168 Resp: 323497

Ion Ratio Lower Upper

168 100

99 44.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

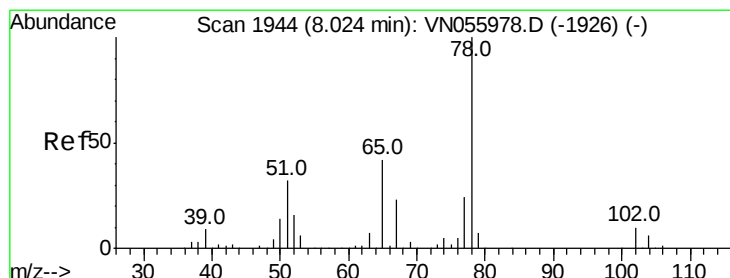
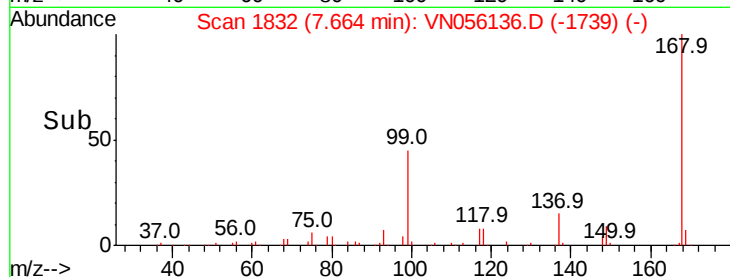
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.769 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN056136.D

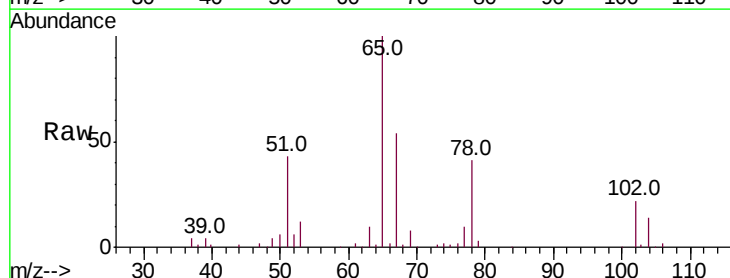
Acq: 8 Jun 2019 7:52

Tgt Ion: 65 Resp: 163073

Ion Ratio Lower Upper

65 100

67 53.4 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055978.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055978.D (-1926) (-)

8.02

80000

60000

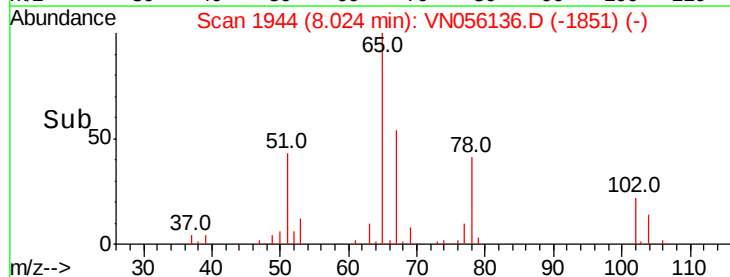
40000

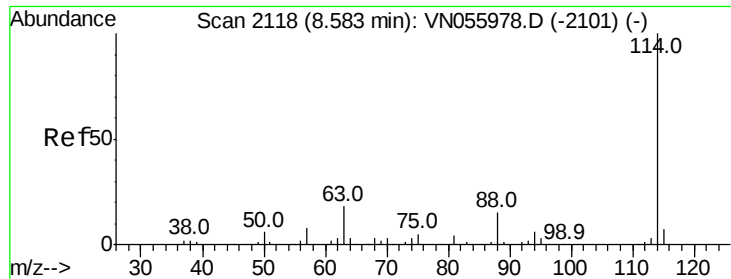
20000

0

7.90 8.00 8.10

Time-->

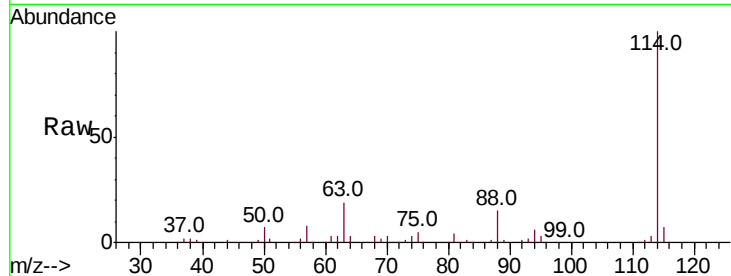




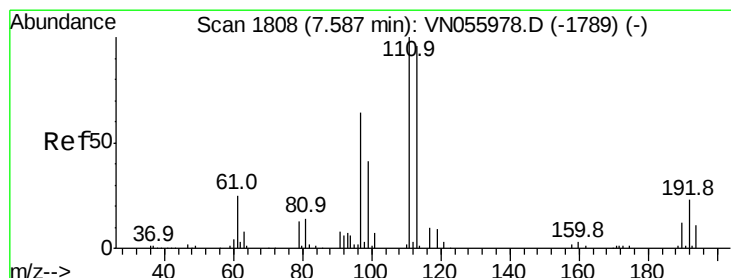
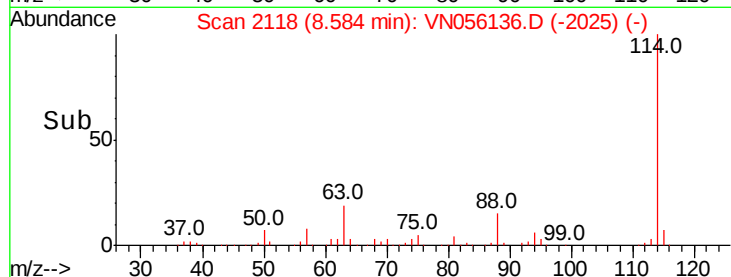
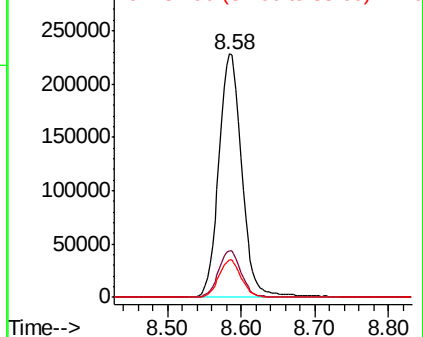
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN056136.D  
 Acq: 8 Jun 2019 7:52

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1A

Tot Ion:114 Resp: 496669  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 39.2  
 88 15.2 0.0 31.0

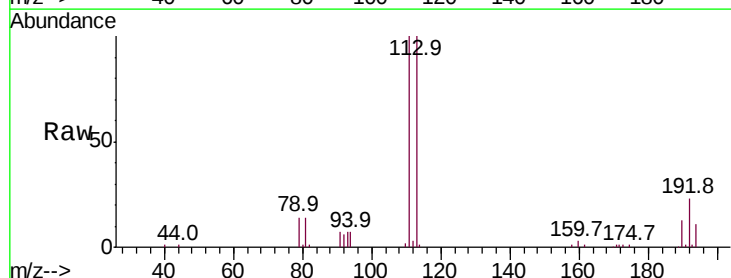


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

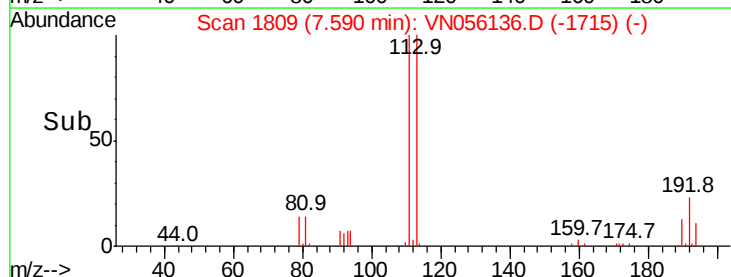
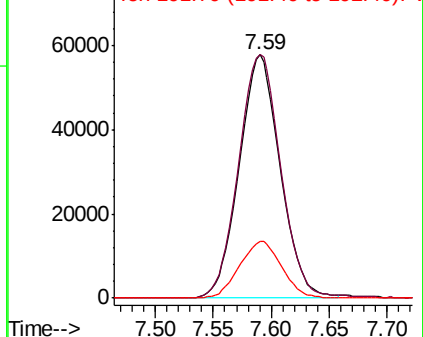


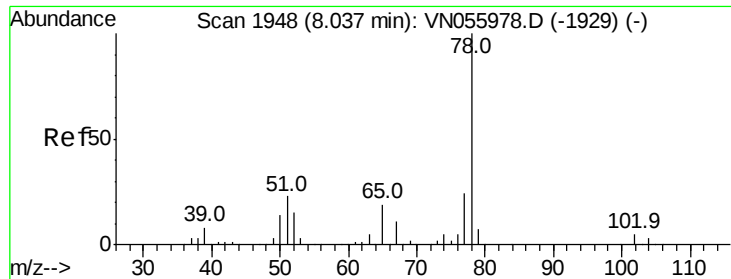
#35  
 Dibromofluoromethane  
 Concen: 46.550 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN056136.D  
 Acq: 8 Jun 2019 7:52

Tgt Ion:113 Resp: 141849  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 81.9 122.9  
 192 24.0 19.5 29.3



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





#40

Benzene

Concen: 8.915 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN056136.D

Acq: 8 Jun 2019 7:52

Instrument :

MSVOA\_N

ClientSampleId :

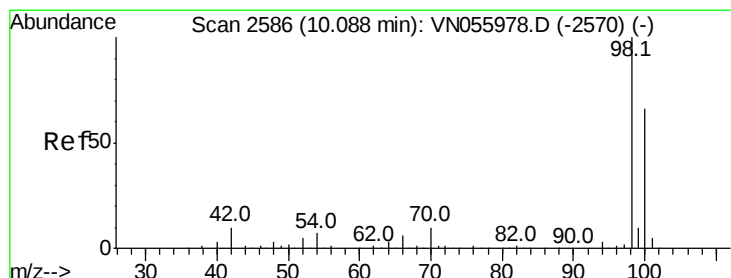
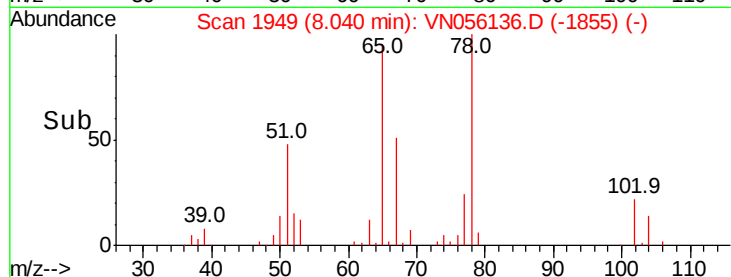
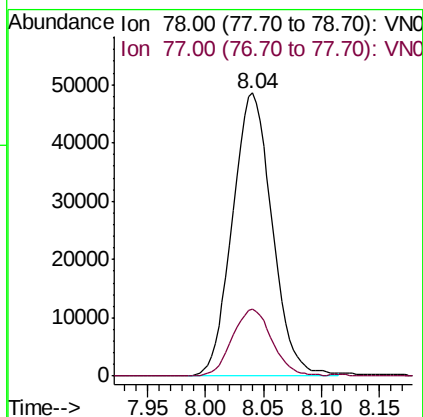
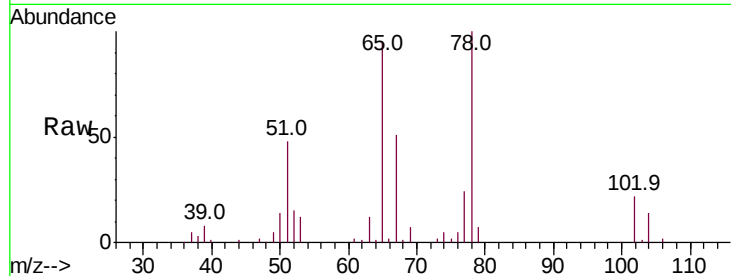
MW-1A

Tot Ion: 78 Resp: 115641

Ion Ratio Lower Upper

78 100

77 23.6 18.8 28.2



#50

Toluene-d8

Concen: 51.679 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056136.D

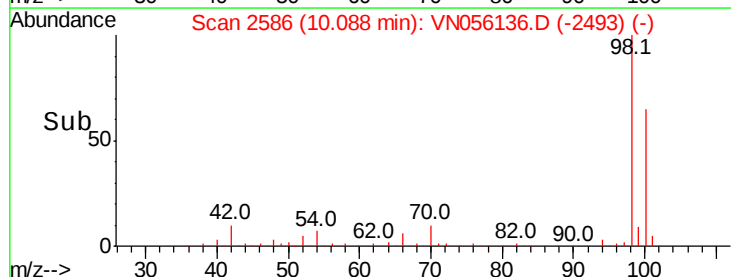
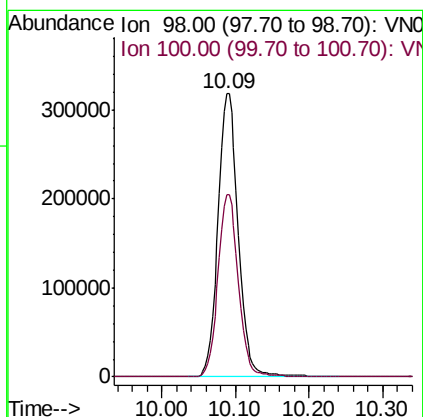
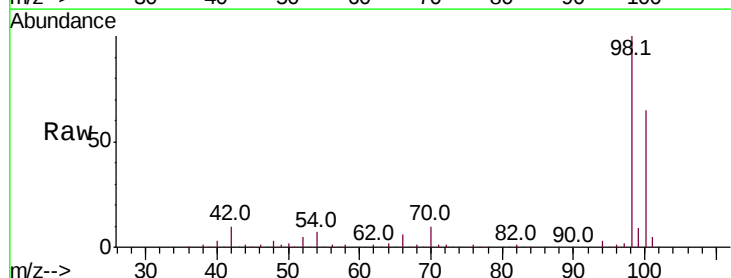
Acq: 8 Jun 2019 7:52

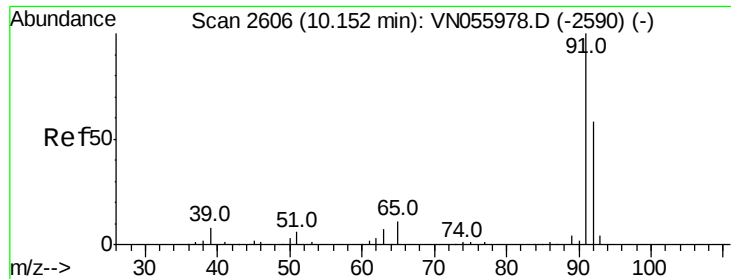
Tgt Ion: 98 Resp: 605972

Ion Ratio Lower Upper

98 100

100 65.0 51.9 77.9





#52

Toluene

Concen: 11.149 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056136.D

Acq: 8 Jun 2019 7:52

Instrument :

MSVOA\_N

ClientSampleId :

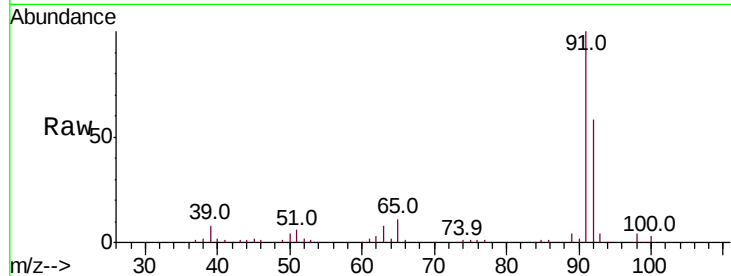
MW-1A

Tot Ion: 92 Resp: 89990

Ion Ratio Lower Upper

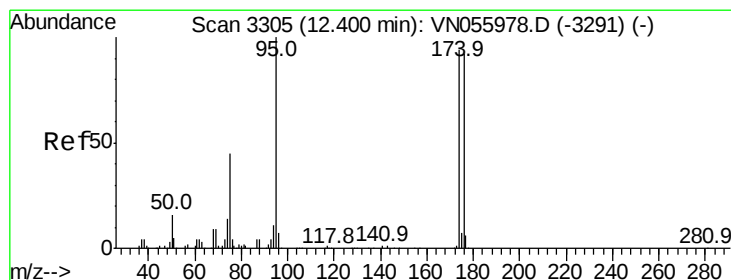
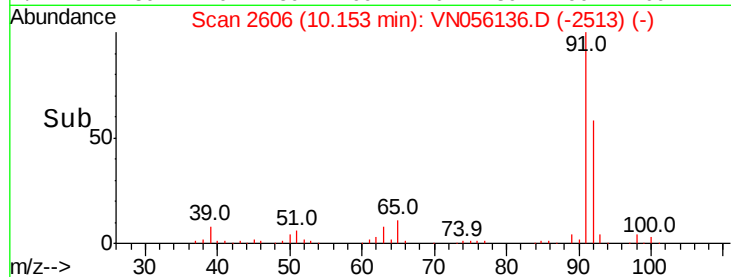
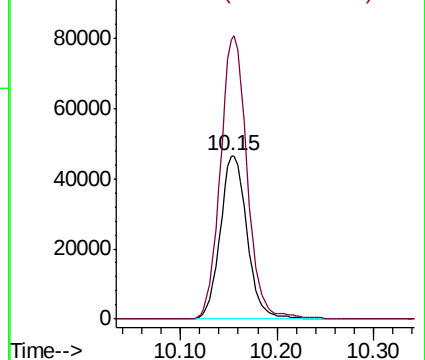
92 100

91 172.6 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 54.847 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056136.D

Acq: 8 Jun 2019 7:52

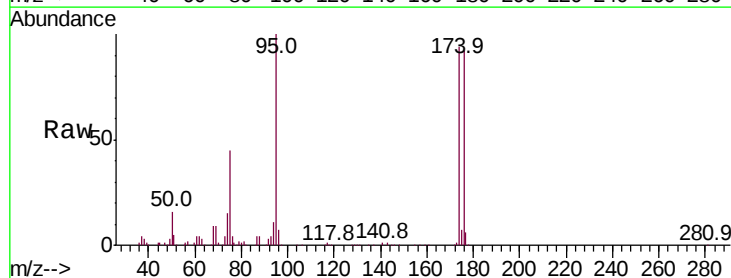
Tgt Ion: 95 Resp: 218709

Ion Ratio Lower Upper

95 100

174 95.6 0.0 191.0

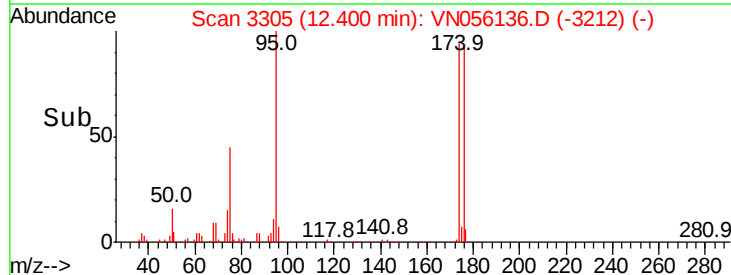
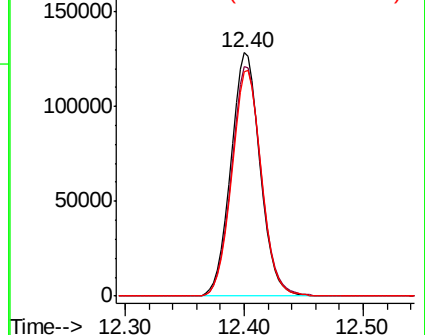
176 93.7 0.0 185.2

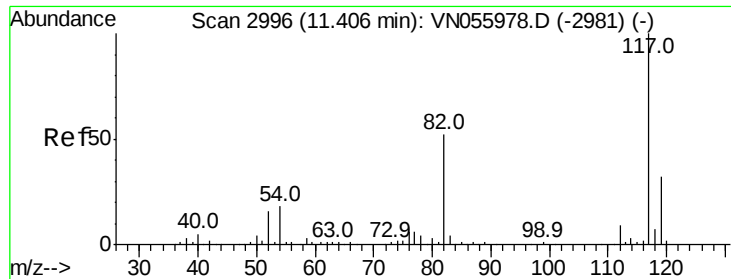


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

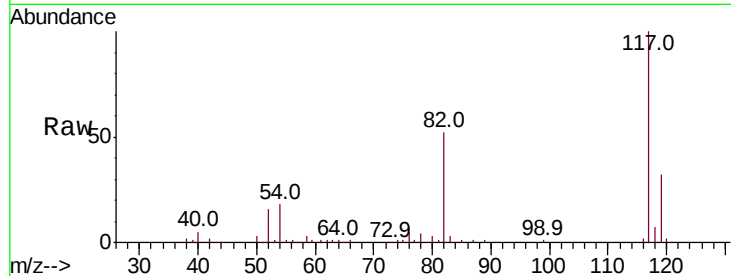




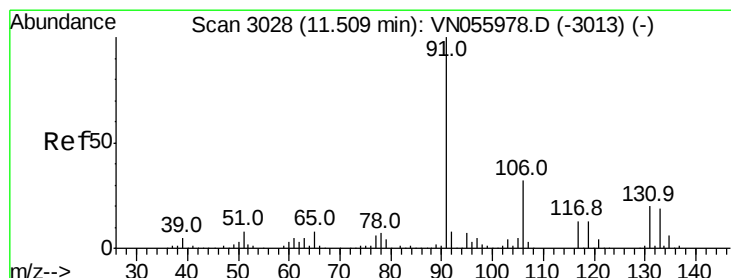
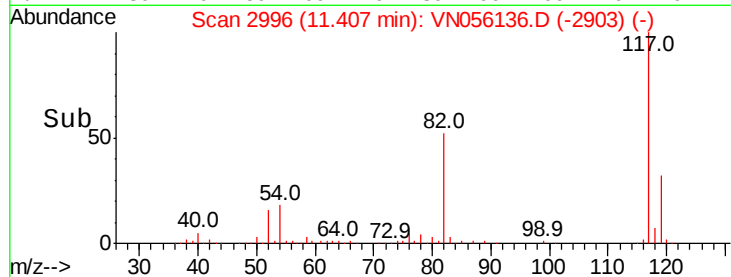
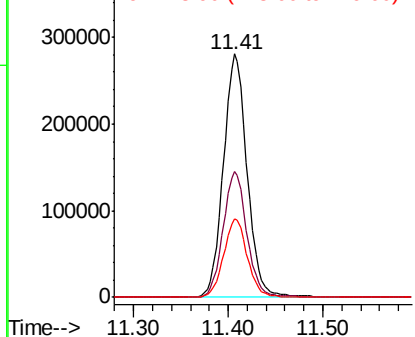
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN056136.D  
Acq: 8 Jun 2019 7:52

Instrument :  
MSVOA\_N  
ClientSampled :  
MW-1A

Tot Ion:117 Resp: 488792  
Ion Ratio Lower Upper  
117 100  
82 51.9 41.8 62.8  
119 32.1 25.4 38.0

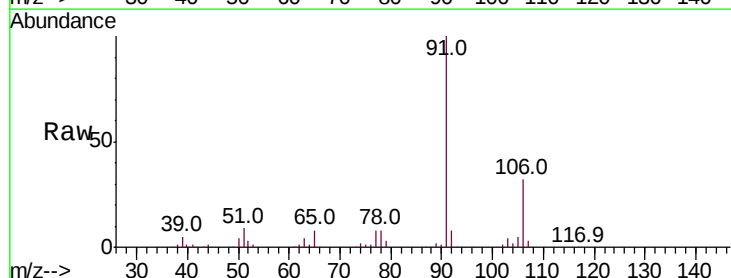


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 118.90 (118.60 to 119.60): V

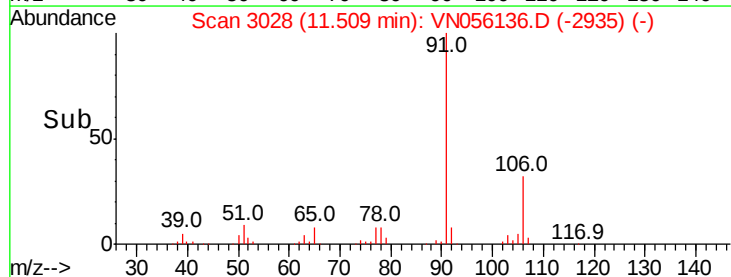
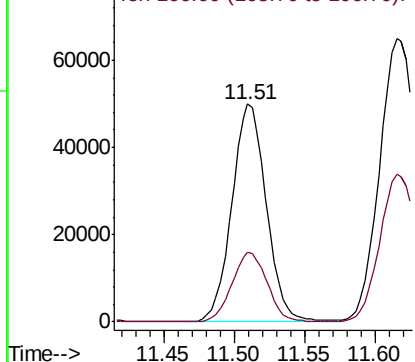


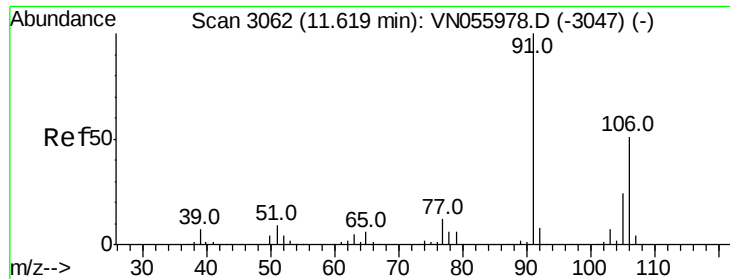
#67  
Ethyl Benzene  
Concen: 5.071 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. 0.00 min  
Lab File: VN056136.D  
Acq: 8 Jun 2019 7:52

Tgt Ion: 91 Resp: 85784  
Ion Ratio Lower Upper  
91 100  
106 31.8 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VN  
Ion 106.00 (105.70 to 106.70): V

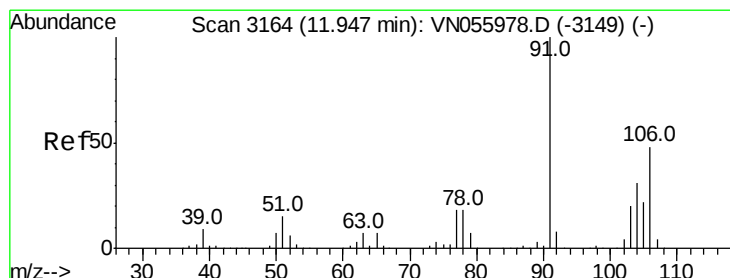
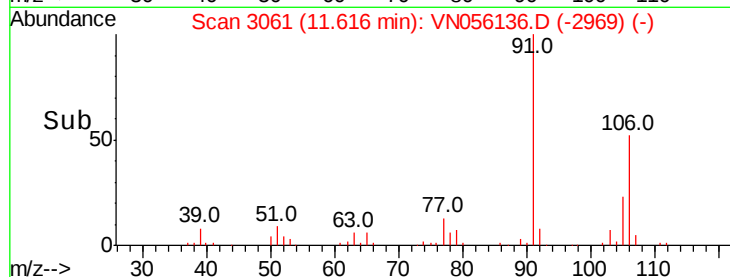
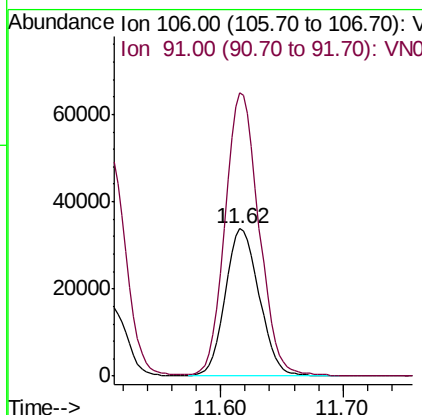
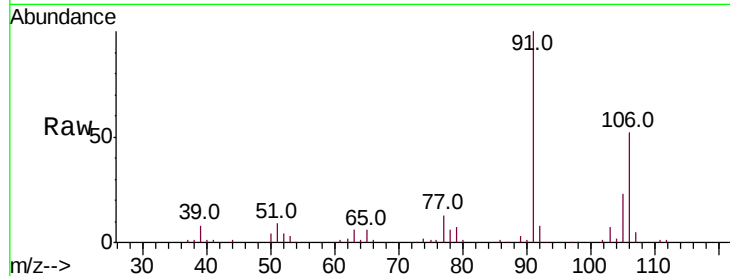




#68  
m/p-Xvlenes  
Concen: 10.189 ug/l  
RT: 11.62 min Scan# 3061  
Delta R.T. -0.00 min  
Lab File: VN056136.D  
Acq: 8 Jun 2019 7:52

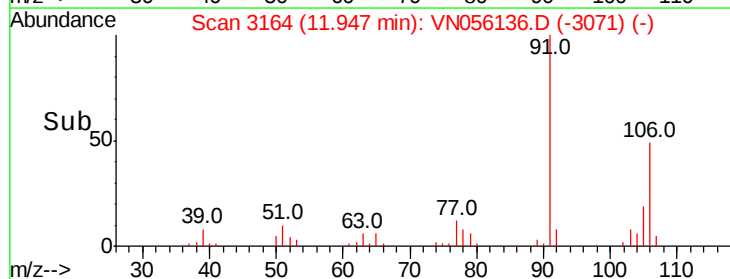
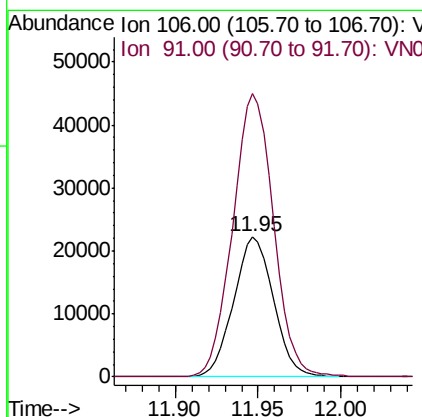
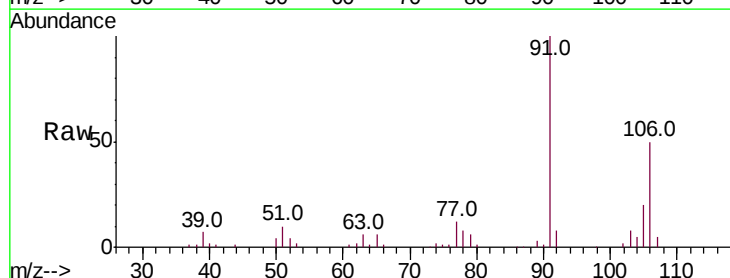
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-1A

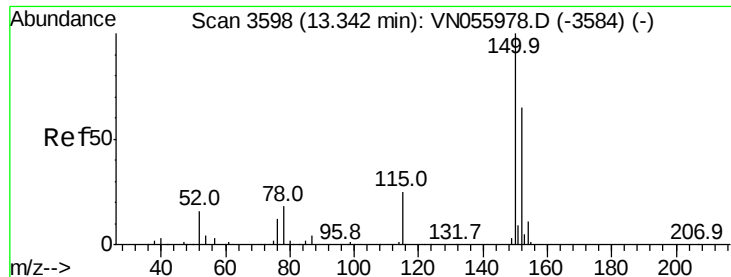
Tot Ion:106 Resp: 65840  
Ion Ratio Lower Upper  
106 100  
91 192.1 159.3 238.9



#69  
o-Xylene  
Concen: 5.835 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN056136.D  
Acq: 8 Jun 2019 7:52

Tgt Ion:106 Resp: 37087  
Ion Ratio Lower Upper  
106 100  
91 207.1 104.7 314.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056136.D

Acq: 8 Jun 2019 7:52

Instrument :

MSVOA\_N

ClientSampled :

MW-1A

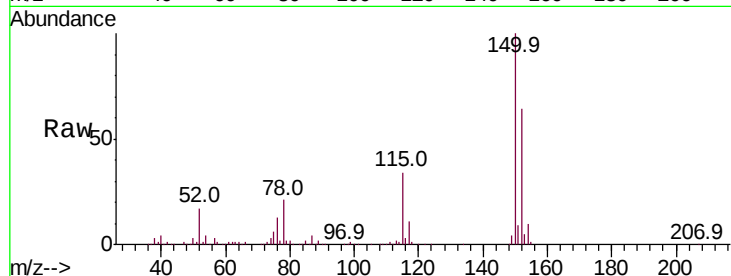
Tot Ion:152 Resp: 218258

Ion Ratio Lower Upper

152 100

115 53.1 27.0 81.0

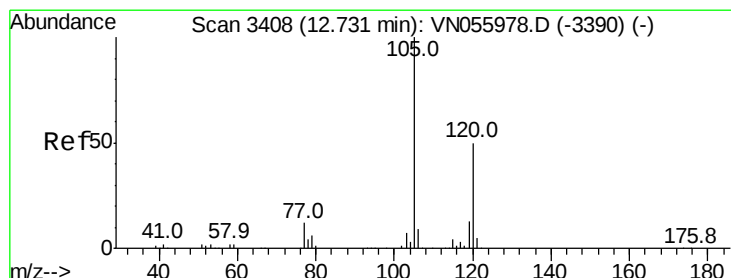
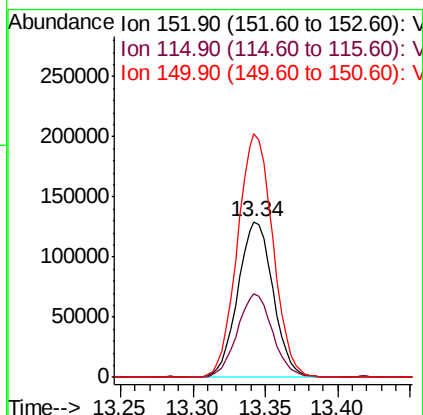
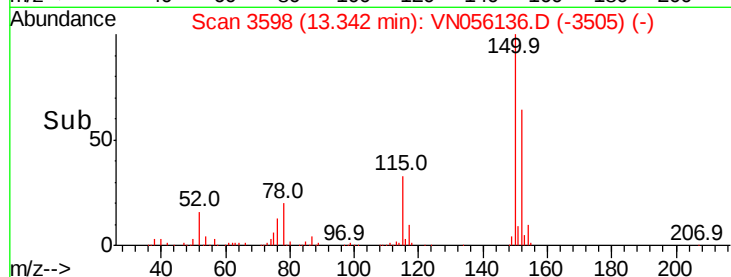
150 157.6 0.0 343.2



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



#80

1,3,5-Trimethylbenzene

Concen: 1.371 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056136.D

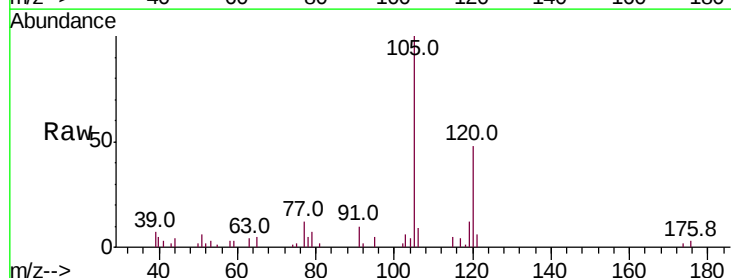
Acq: 8 Jun 2019 7:52

Tgt Ion:105 Resp: 20123

Ion Ratio Lower Upper

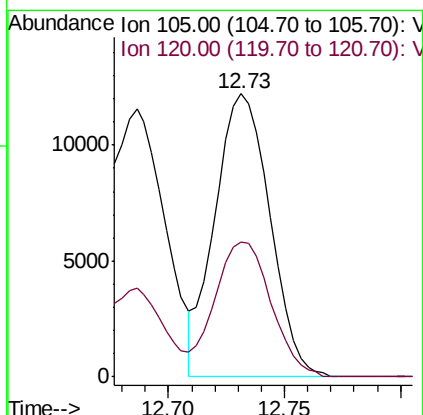
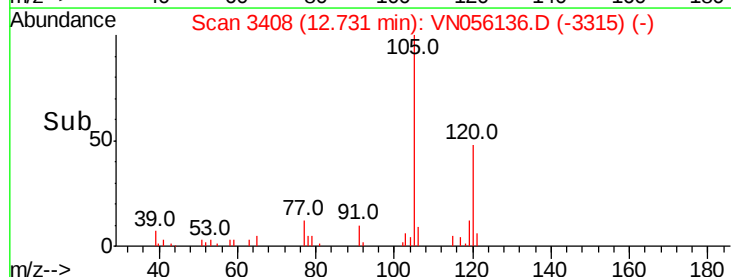
105 100

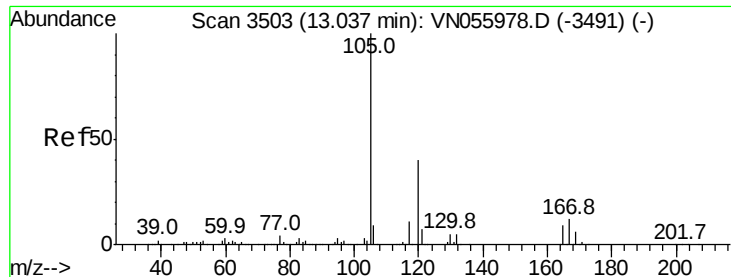
120 48.8 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

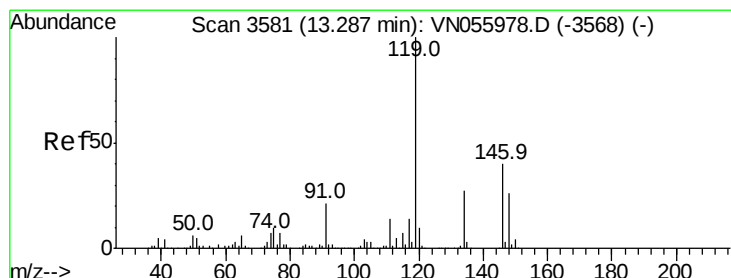
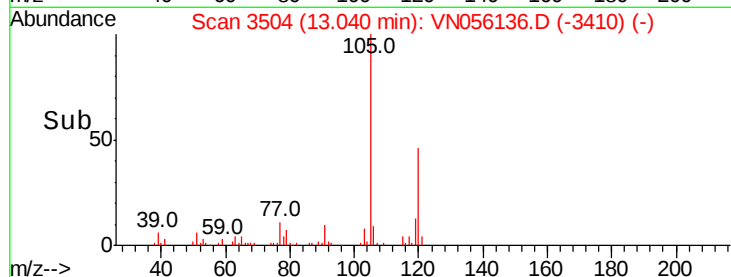
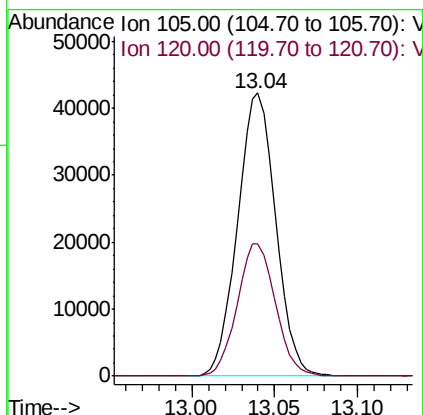
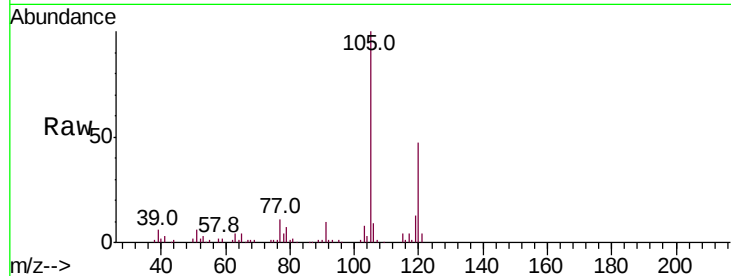




#84  
1,2,4-Trimethylbenzene  
Concen: 4.852 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN056136.D  
Acq: 8 Jun 2019 7:52

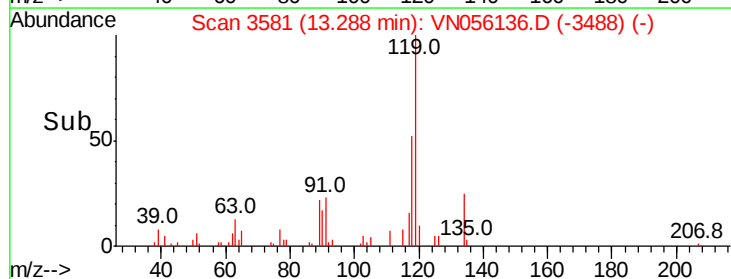
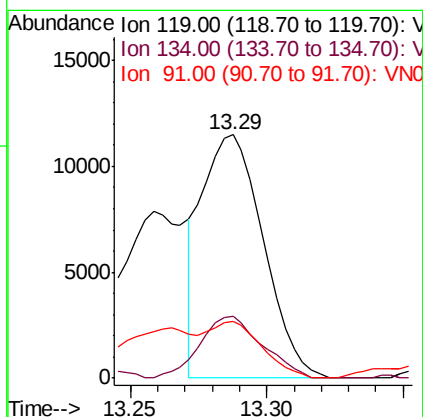
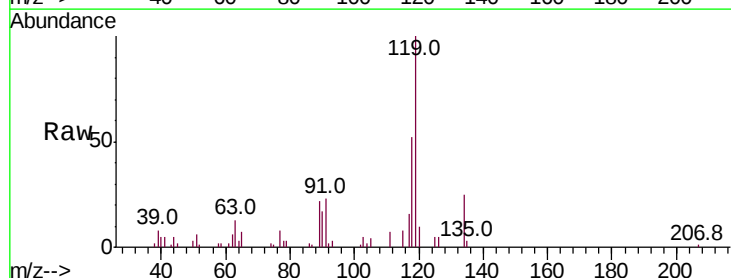
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1A

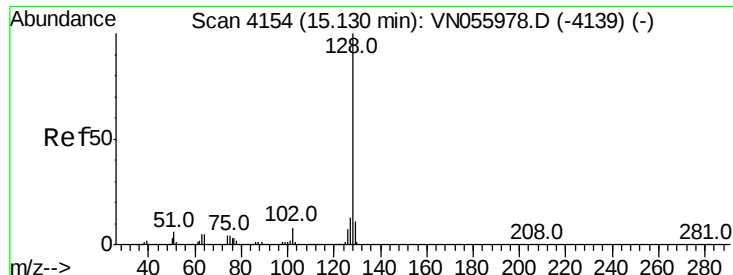
Tot Ion:105 Resp: 67526  
Ion Ratio Lower Upper  
105 100  
120 46.8 23.0 69.0



#86  
p-Isopropyltoluene  
Concen: 1.224 ug/l  
RT: 13.29 min Scan# 3581  
Delta R.T. 0.00 min  
Lab File: VN056136.D  
Acq: 8 Jun 2019 7:52

Tgt Ion:119 Resp: 17906  
Ion Ratio Lower Upper  
119 100  
134 25.9 13.4 40.1  
91 18.3 10.9 32.9





#95

Naphthalene

Concen: 170.776 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056136.D

Acq: 8 Jun 2019 7:52

Instrument :

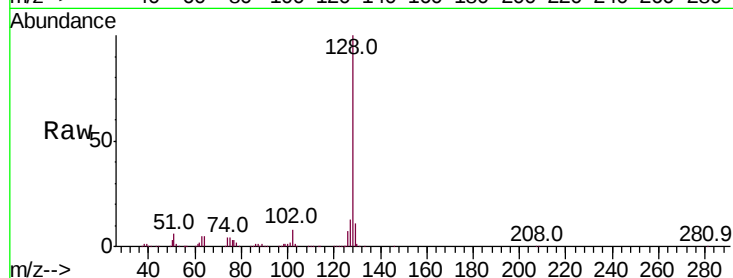
MSVOA\_N

ClientSampleId :

MW-1A

Tot Ion:128 Resp: 1888015

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.7  | 10.3  | 15.5  |
| 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

