

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\  
 Data File : VN050115.D  
 Acq On : 27 Jul 2018 5:43  
 Operator : MD\SY  
 Sample : J4184-09  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-11B

Quant Time: Jul 27 08:22:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 26 18:10:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 790127   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1229849  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1057386  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 479114   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 512682   | 46.51 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.02% |          |
| 35) Dibromofluoromethane    | 7.60  | 113  | 457354   | 45.55 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.10% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1690754  | 45.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.60% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 534546   | 43.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.96% |          |

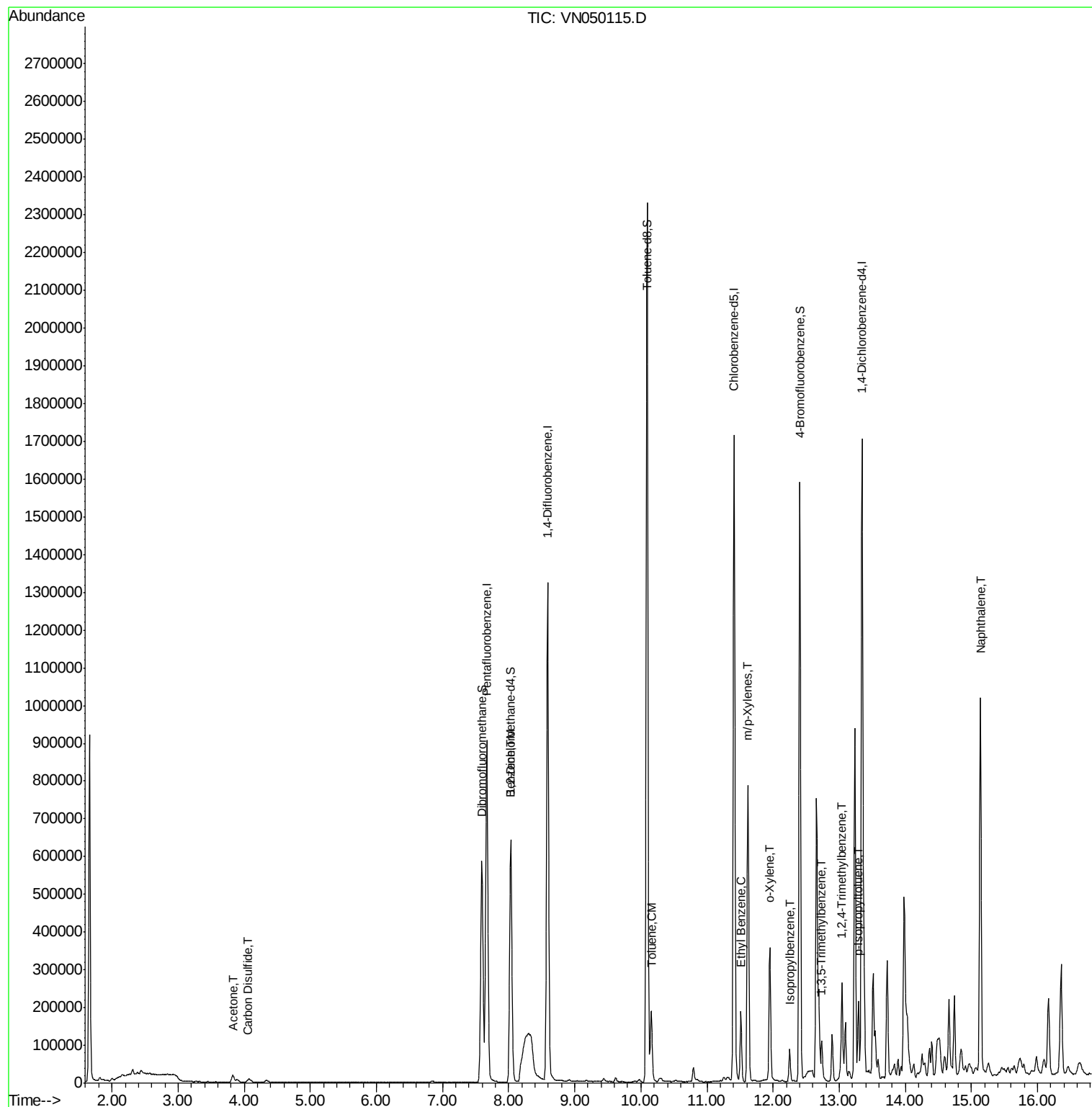
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 16) Acetone                | 3.83  | 43   | 35128    | 9.35  | ug/l  | 89     |
| 17) Carbon Disulfide       | 4.05  | 76   | 7119     | 0.26  | ug/l  | 98     |
| 40) Benzene                | 8.04  | 78   | 80658    | 1.91  | ug/l  | 98     |
| 52) Toluene                | 10.16 | 92   | 77286    | 3.11  | ug/l  | 98     |
| 67) Ethyl Benzene          | 11.51 | 91   | 132349   | 3.08  | ug/l  | 99     |
| 68) m/p-Xylenes            | 11.62 | 106  | 247301   | 15.24 | ug/l  | 99     |
| 69) o-Xylene               | 11.95 | 106  | 95687    | 6.19  | ug/l  | 99     |
| 73) Isopropylbenzene       | 12.25 | 105  | 54367    | 1.46  | ug/l  | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 49657    | 1.70  | ug/l  | 95     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 137645   | 4.67  | ug/l  | 100    |
| 86) p-Isopropyltoluene     | 13.29 | 119  | 116493   | 4.06  | ug/l  | 99     |
| 95) Naphthalene            | 15.14 | 128  | 870161   | 40.67 | ug/l  | 99     |

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

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Quant Title : SW846 8260  
QLast Update : Thu Jul 26 18:10:10 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

Instrument :

MSVOA\_N

ClientSampled :

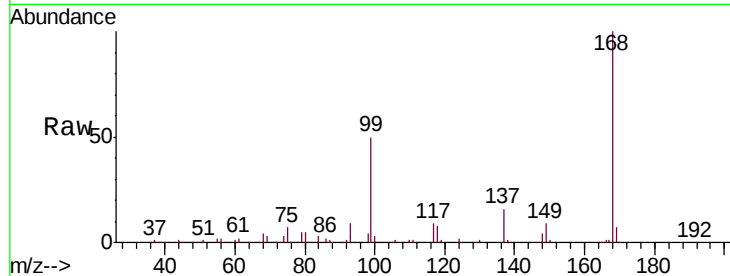
MW-11B

Tot Ion:168 Resp: 790127

Ion Ratio Lower Upper

168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

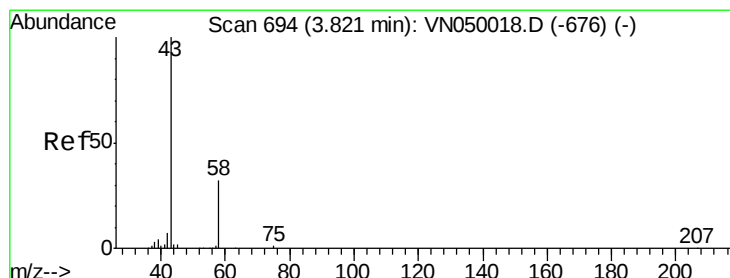
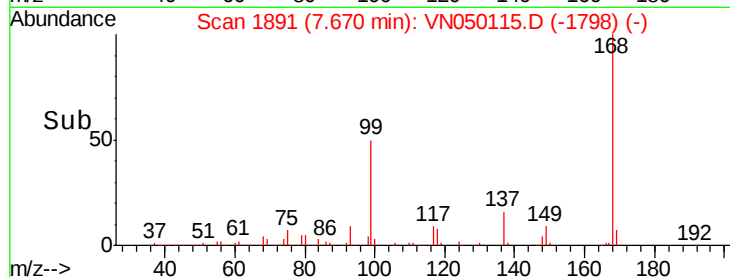
200000

100000

0

Time-->

7.60 7.70 7.80



#16

Acetone

Concen: 9.35 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050115.D

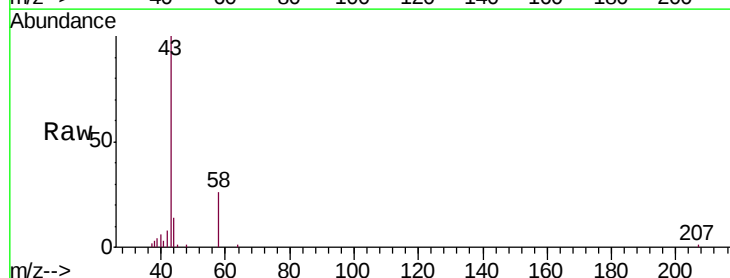
Acq: 27 Jul 2018 5:43

Tgt Ion: 43 Resp: 35128

Ion Ratio Lower Upper

43 100

58 26.3 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.83

15000

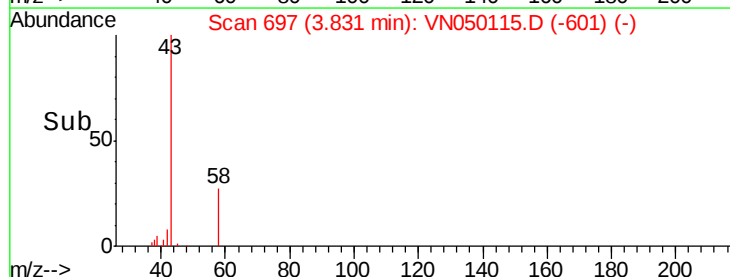
10000

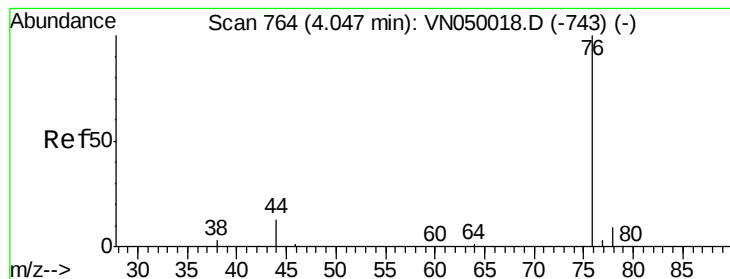
5000

0

Time-->

3.70 3.80 3.90





#17

Carbon Disulfide

Concen: 0.26 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

Instrument :

MSVOA\_N

ClientSampled :

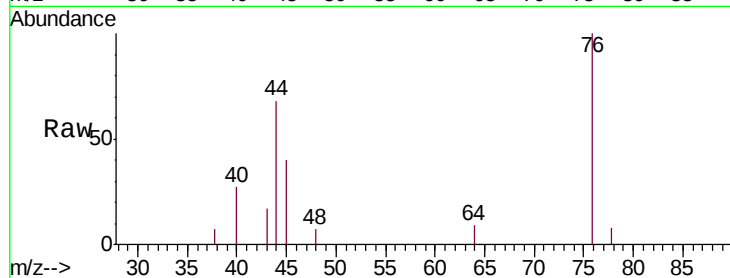
MW-11B

Tot Ion: 76 Resp: 7119

Ion Ratio Lower Upper

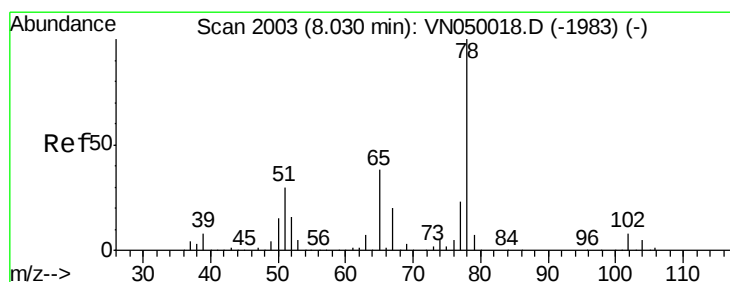
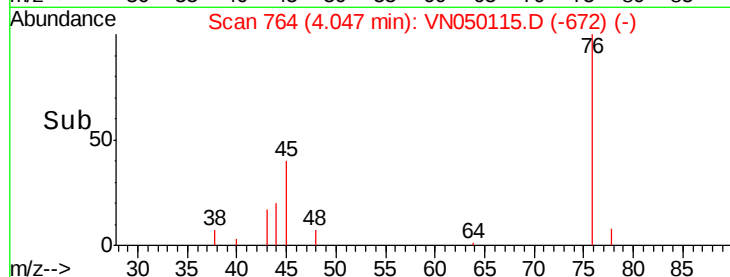
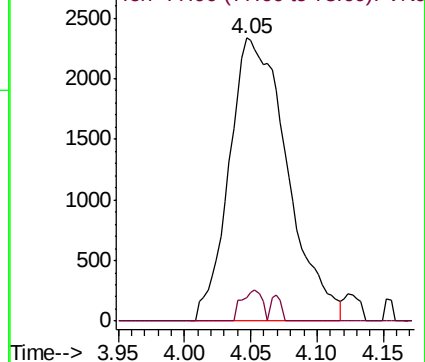
76 100

78 8.4 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 46.51 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050115.D

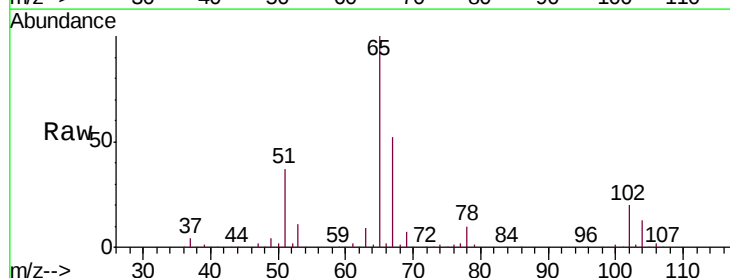
Acq: 27 Jul 2018 5:43

Tgt Ion: 65 Resp: 512682

Ion Ratio Lower Upper

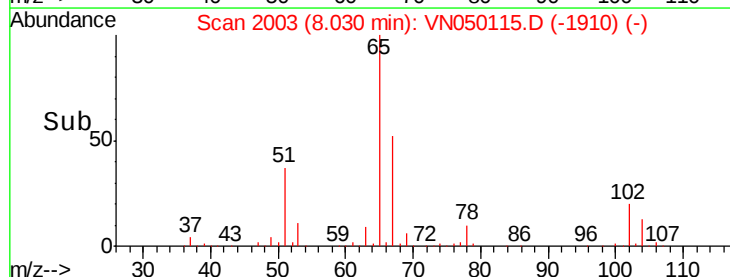
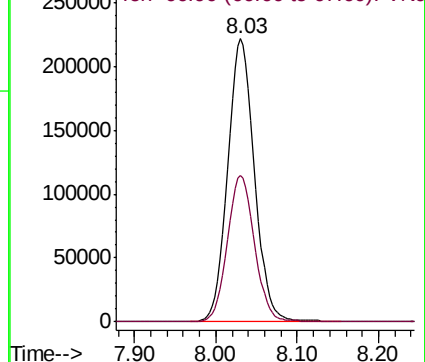
65 100

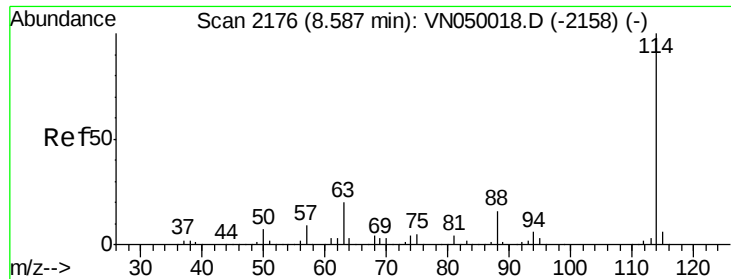
67 52.6 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

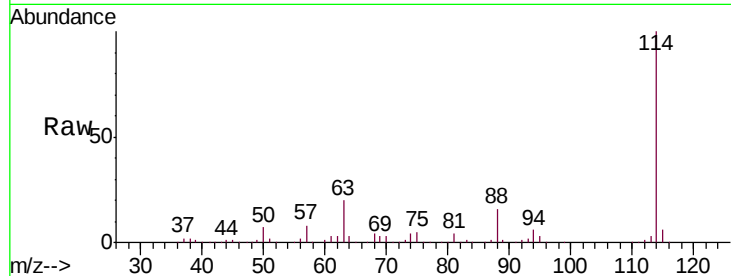




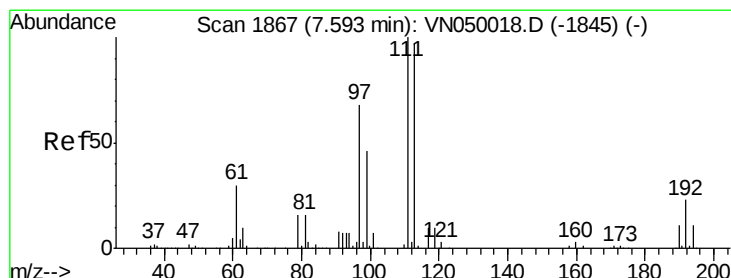
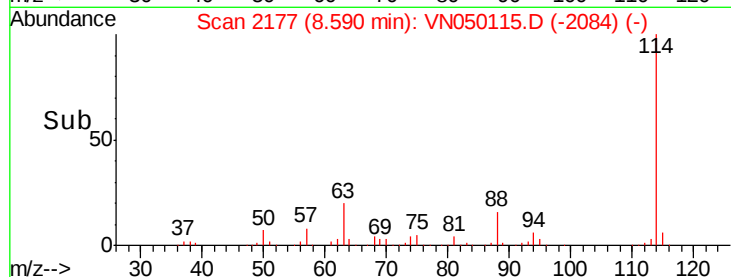
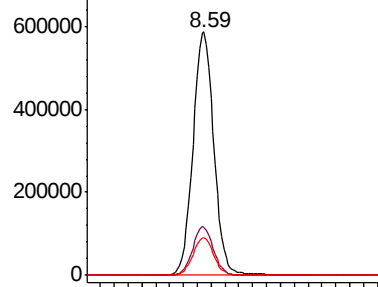
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.59 min Scan# 2177  
Delta R.T. 0.00 min  
Lab File: VN050115.D  
Acq: 27 Jul 2018 5:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B

Tot Ion:114 Resp: 1229849  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 40.0  
88 15.6 0.0 31.2

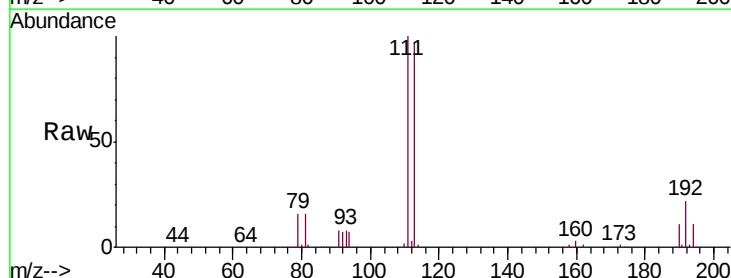


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

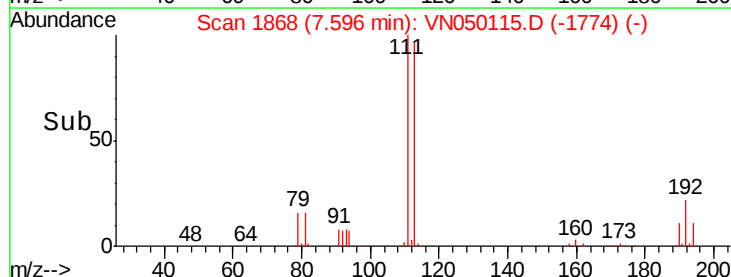
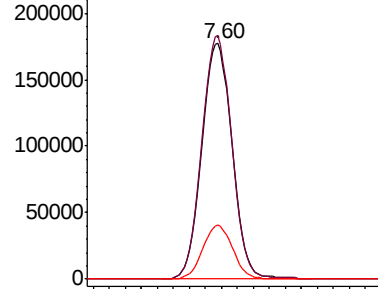


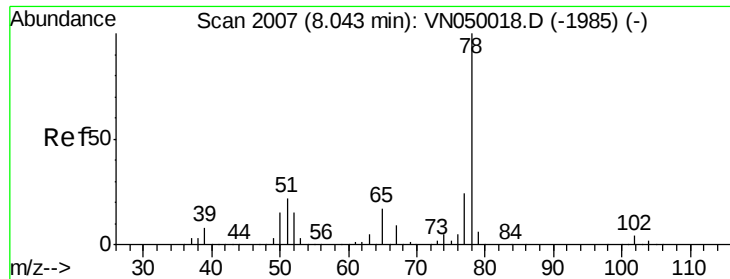
#35  
Dibromofluoromethane  
Concen: 45.55 ug/l  
RT: 7.60 min Scan# 1868  
Delta R.T. 0.00 min  
Lab File: VN050115.D  
Acq: 27 Jul 2018 5:43

Tgt Ion:113 Resp: 457354  
Ion Ratio Lower Upper  
113 100  
111 101.4 80.7 121.1  
192 22.4 17.8 26.6



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: 1.91 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

Instrument :

MSVOA\_N

ClientSampleId :

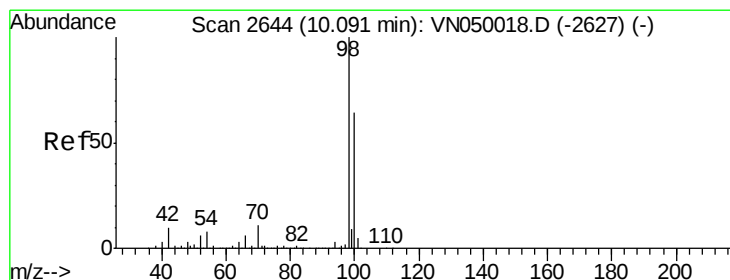
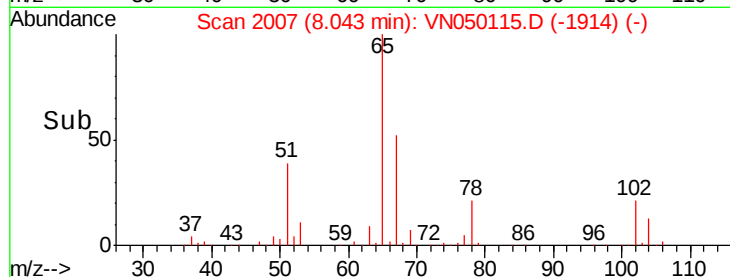
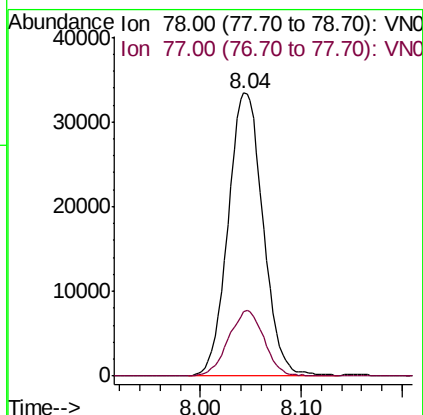
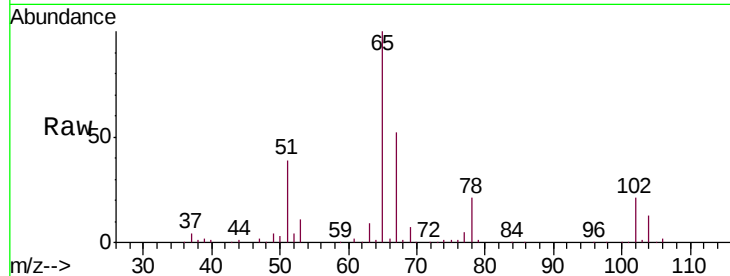
MW-11B

Tot Ion: 78 Resp: 80658

Ion Ratio Lower Upper

78 100

77 22.6 18.7 28.1



#50

Toluene-d8

Concen: 45.80 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050115.D

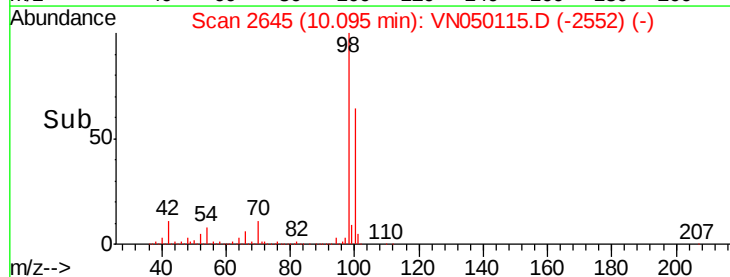
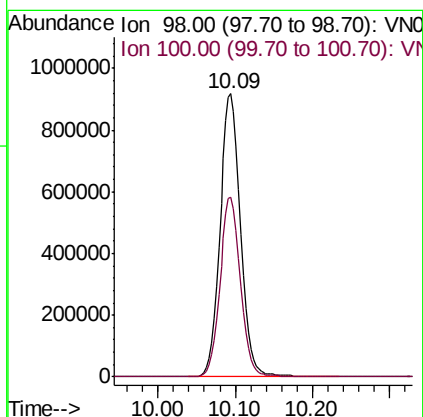
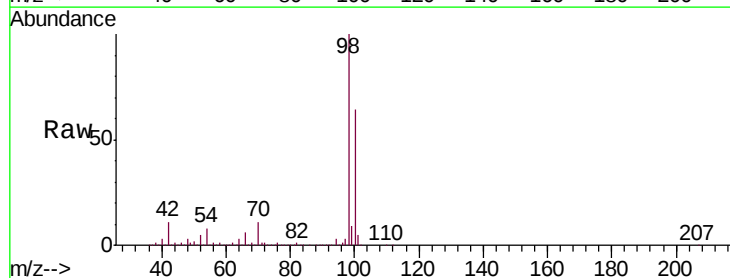
Acq: 27 Jul 2018 5:43

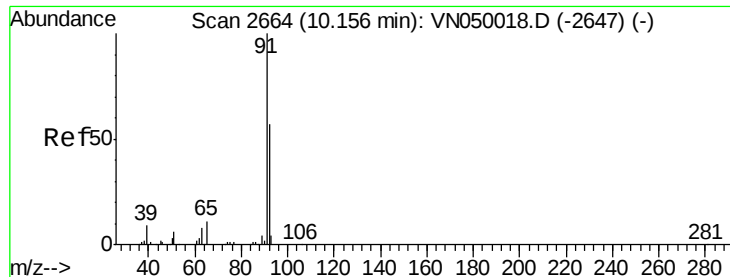
Tgt Ion: 98 Resp: 1690754

Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1





#52

Toluene

Concen: 3.11 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

Instrument :

MSVOA\_N

ClientSampled :

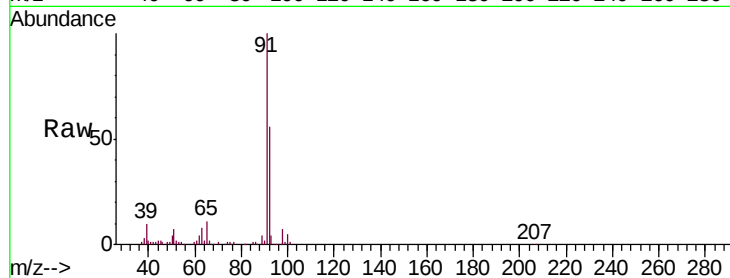
MW-11B

Tot Ion: 92 Resp: 77286

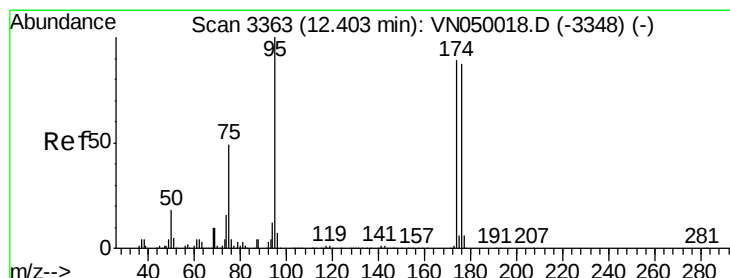
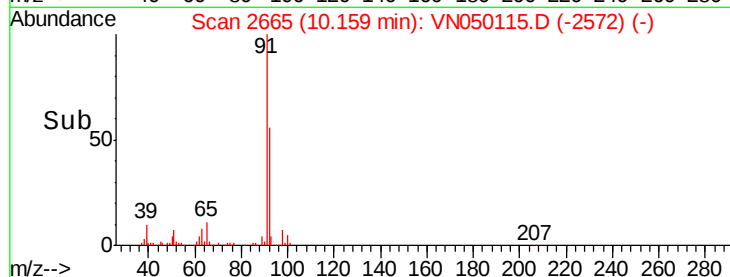
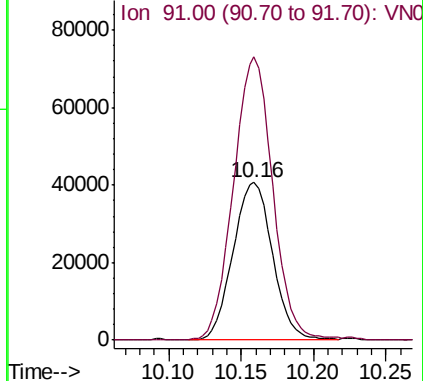
Ion Ratio Lower Upper

92 100

91 178.5 140.3 210.5



Abundance Ion 92.00 (91.70 to 92.70): VN050115.D (-2572) (-)



#62

4-Bromofluorobenzene

Concen: 43.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

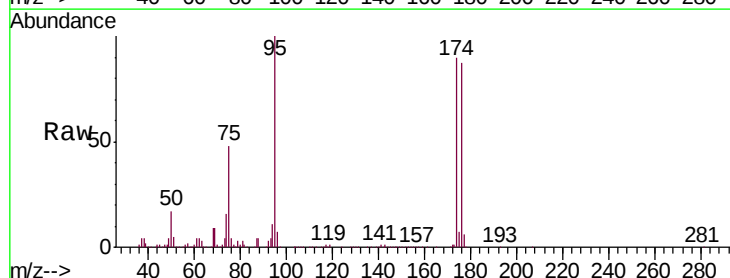
Tgt Ion: 95 Resp: 534546

Ion Ratio Lower Upper

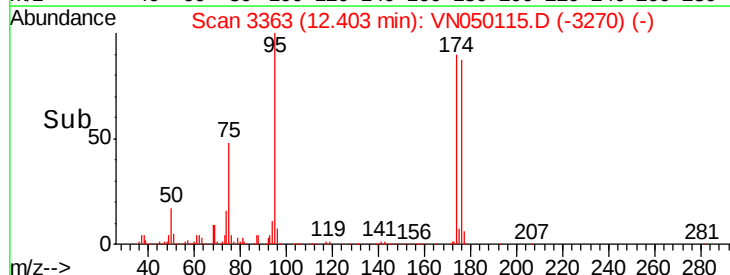
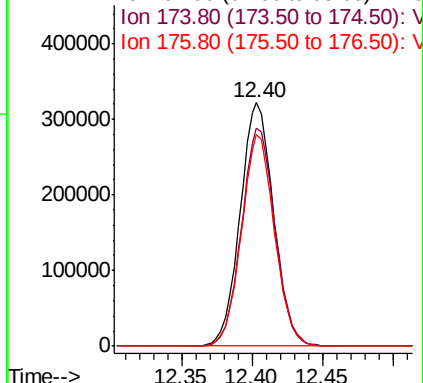
95 100

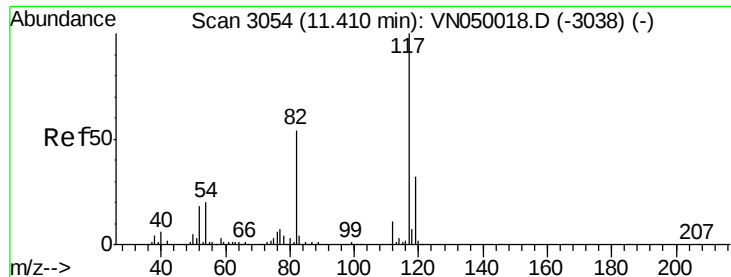
174 90.1 0.0 178.2

176 85.8 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050115.D (-3270) (-)

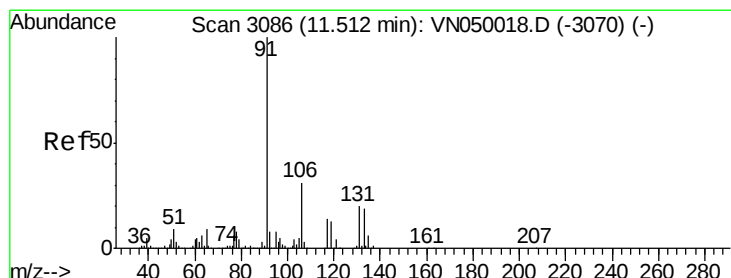
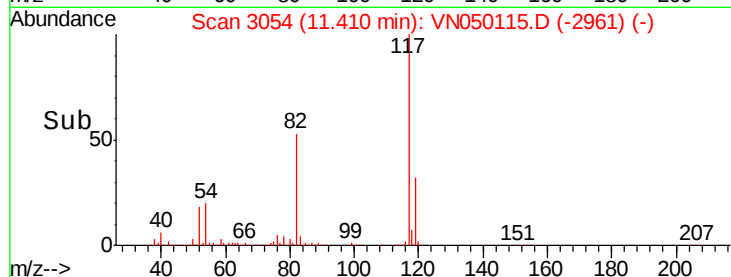
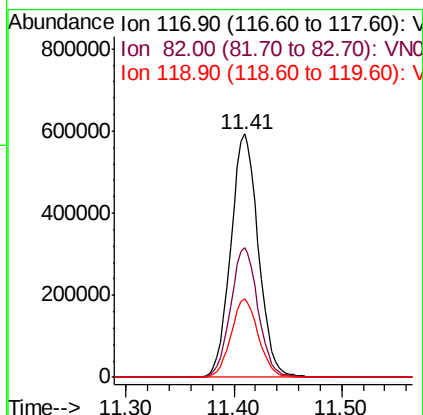
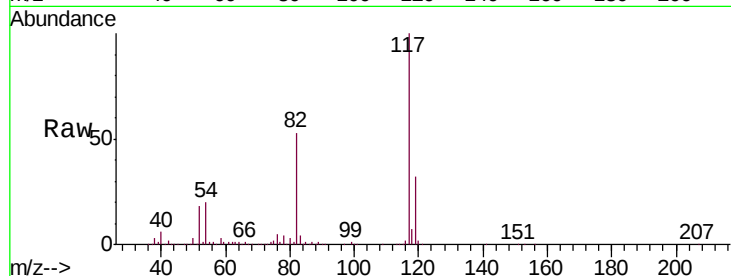




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050115.D  
Acq: 27 Jul 2018 5:43

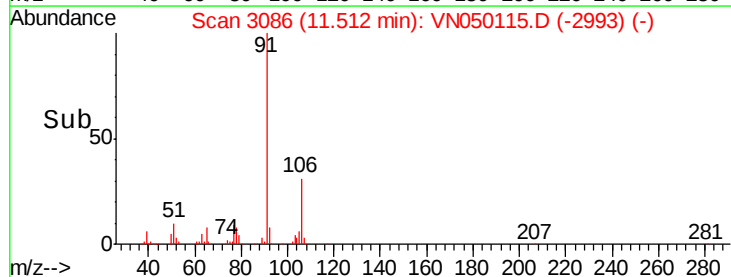
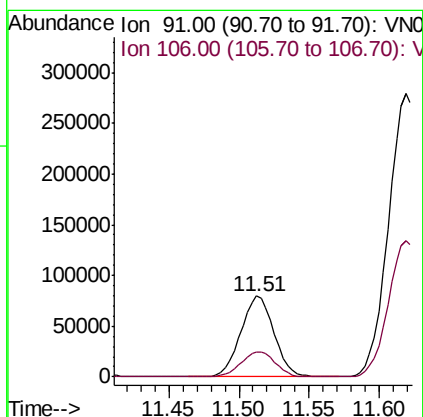
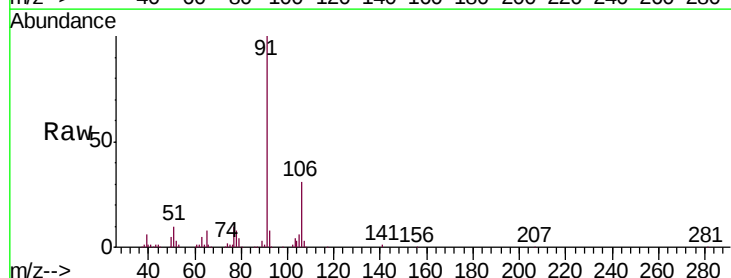
Instrument :  
MSVOA\_N  
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MW-11B

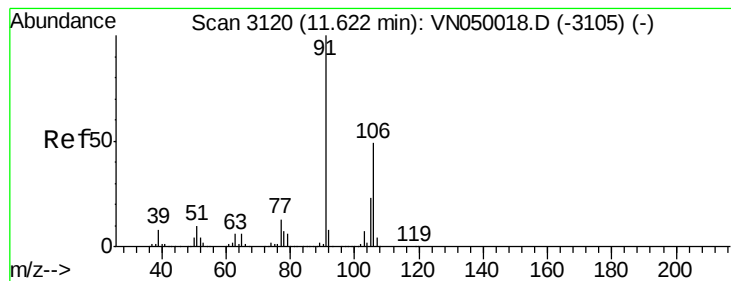
Tot Ion:117 Resp: 1057386  
Ion Ratio Lower Upper  
117 100  
82 53.2 43.7 65.5  
119 32.3 26.1 39.1



#67  
Ethyl Benzene  
Concen: 3.08 ug/l  
RT: 11.51 min Scan# 3086  
Delta R.T. 0.00 min  
Lab File: VN050115.D  
Acq: 27 Jul 2018 5:43

Tgt Ion: 91 Resp: 132349  
Ion Ratio Lower Upper  
91 100  
106 30.9 25.0 37.4





#68

m/p-Xylenes

Concen: 15.24 ug/l

RT: 11.62 min Scan# 3119

Delta R.T. -0.01 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

Instrument :

MSVOA\_N

ClientSampled :

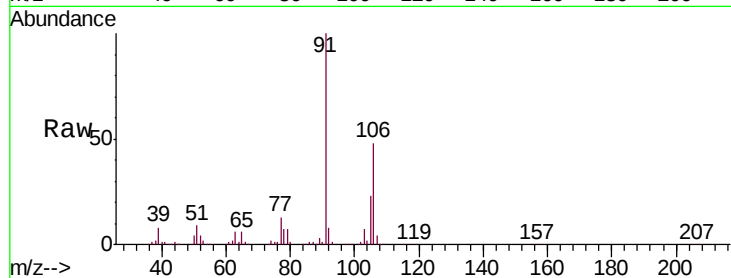
MW-11B

Tot Ion:106 Resp: 247301

Ion Ratio Lower Upper

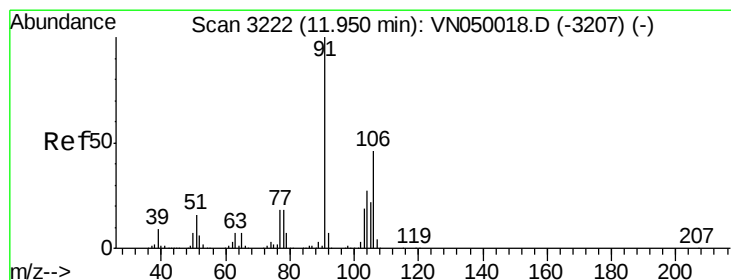
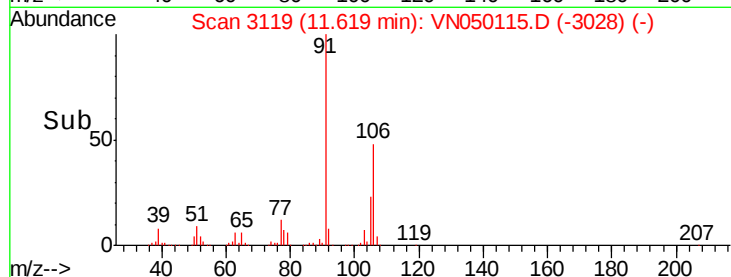
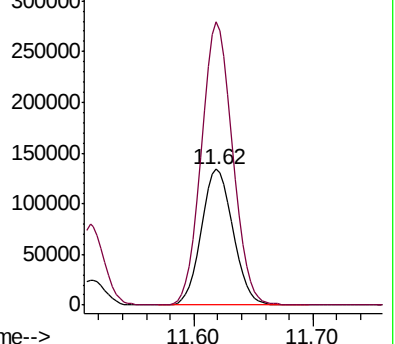
106 100

91 204.1 162.2 243.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#69

o-Xylene

Concen: 6.19 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050115.D

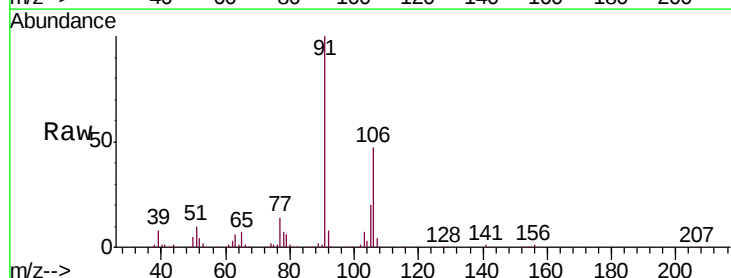
Acq: 27 Jul 2018 5:43

Tgt Ion:106 Resp: 95687

Ion Ratio Lower Upper

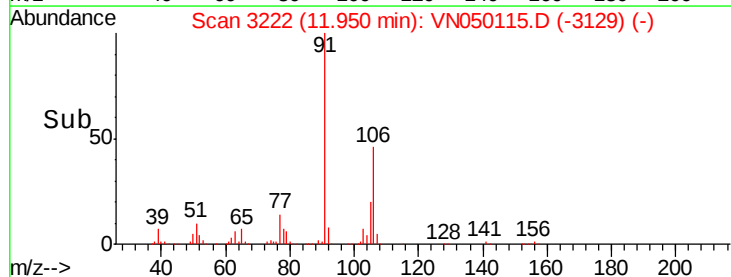
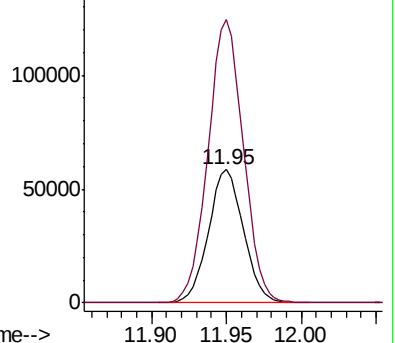
106 100

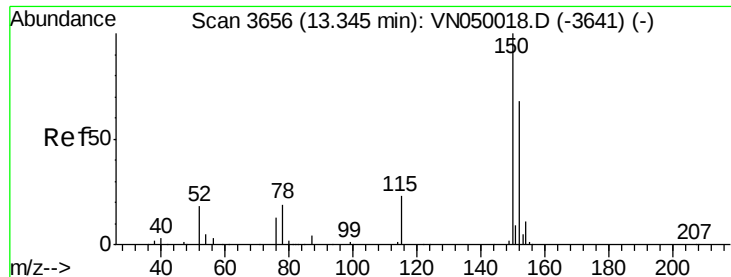
91 213.3 107.7 323.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

Instrument :

MSVOA\_N

ClientSampled :

MW-11B

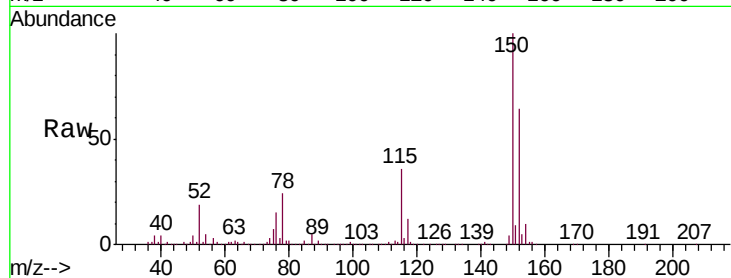
Tot Ion:152 Resp: 479114

Ion Ratio Lower Upper

152 100

115 57.0 27.8 83.3

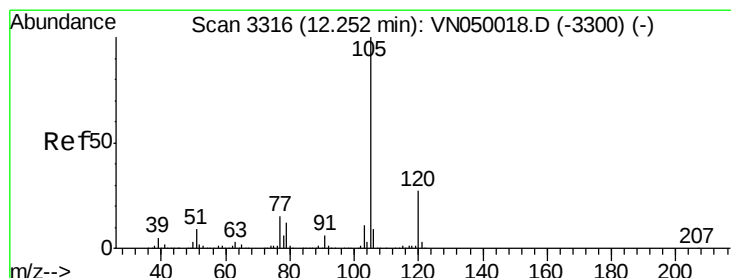
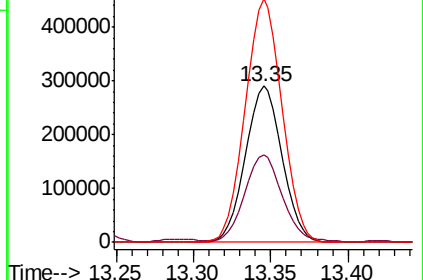
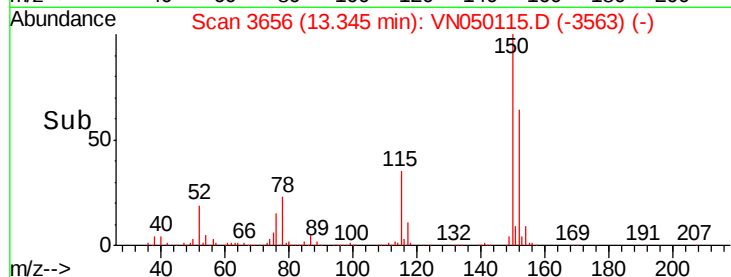
150 156.5 0.0 348.6



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: 1.46 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050115.D

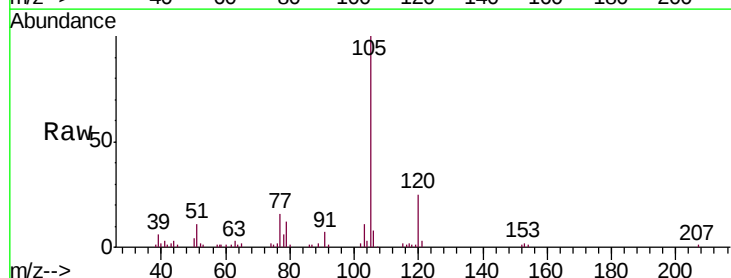
Acq: 27 Jul 2018 5:43

Tgt Ion:105 Resp: 54367

Ion Ratio Lower Upper

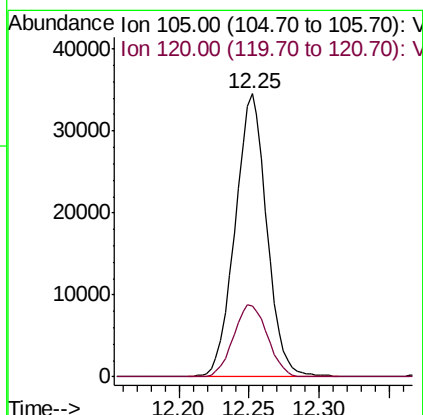
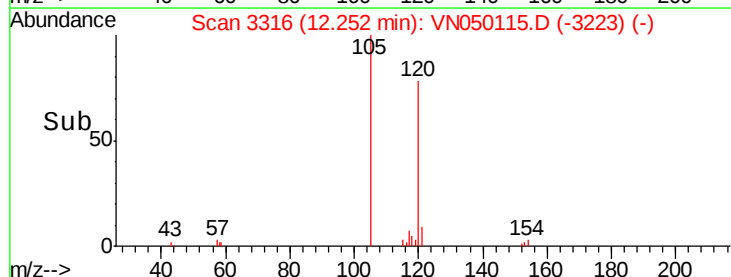
105 100

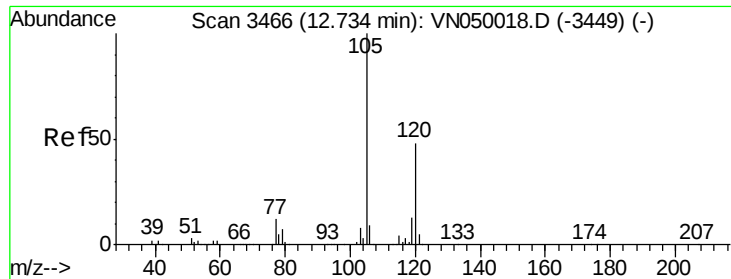
120 27.3 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 1.70 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050115.D

Acq: 27 Jul 2018 5:43

Instrument :

MSVOA\_N

ClientSampled :

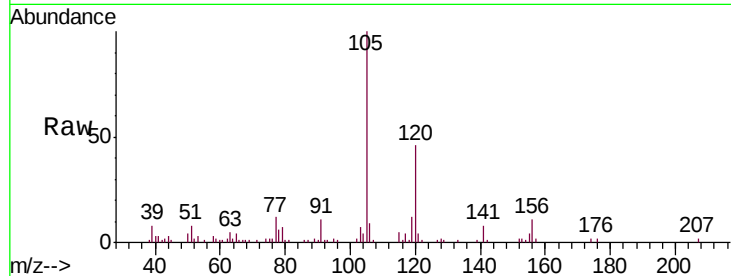
MW-11B

Tot Ion:105 Resp: 49657

Ion Ratio Lower Upper

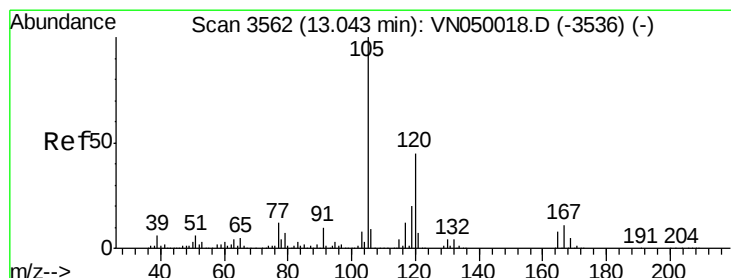
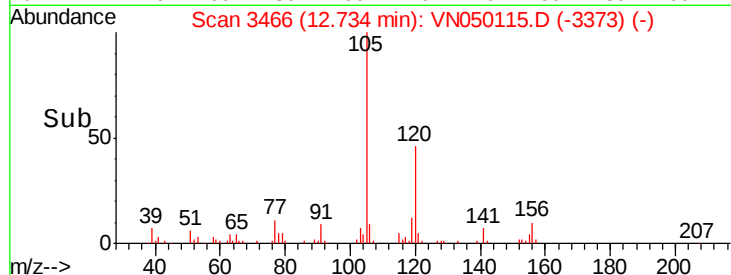
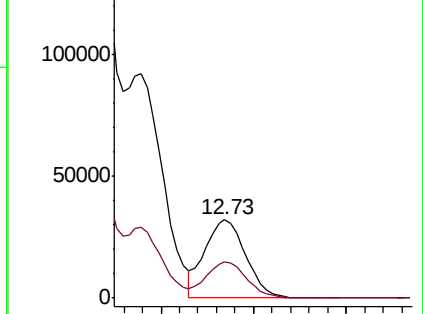
105 100

120 45.6 24.4 73.2



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: 4.67 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. -0.00 min

Lab File: VN050115.D

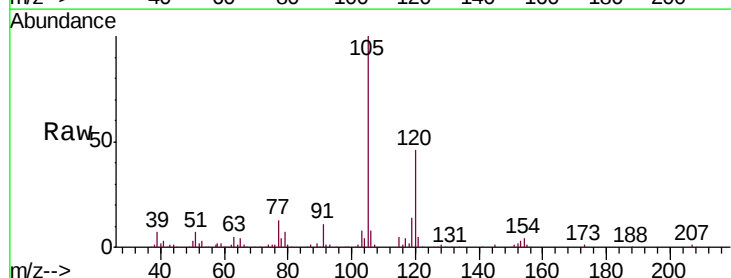
Acq: 27 Jul 2018 5:43

Tgt Ion:105 Resp: 137645

Ion Ratio Lower Upper

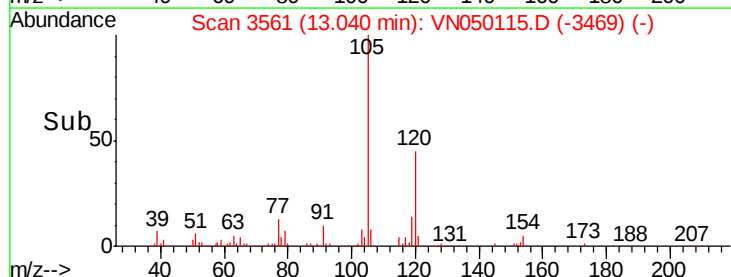
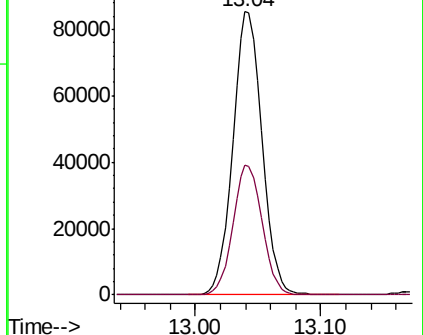
105 100

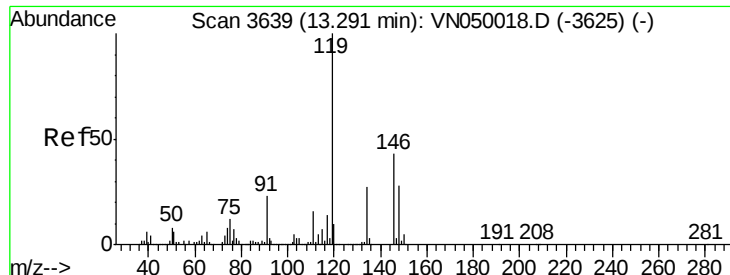
120 45.9 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

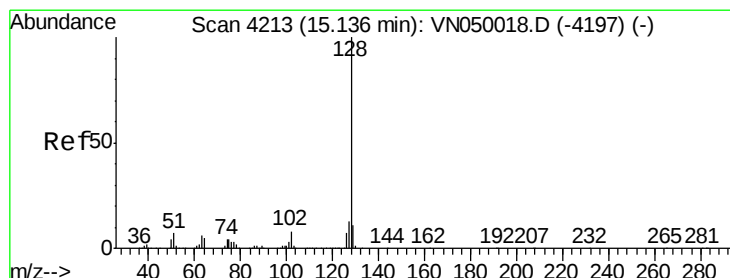
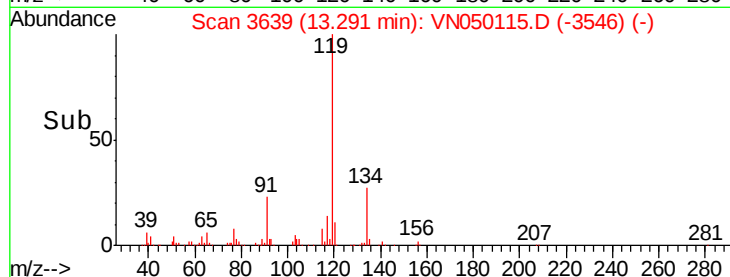
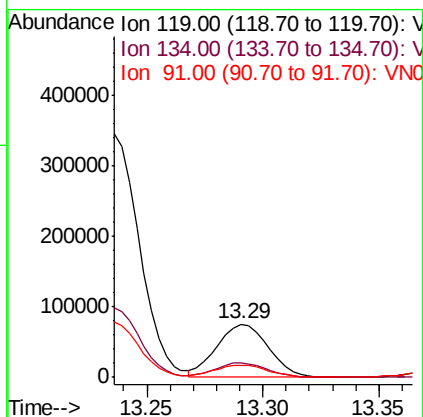
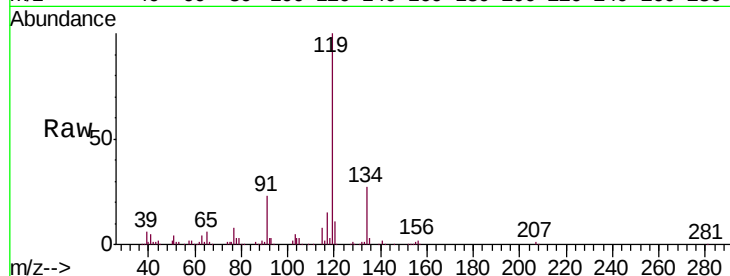




#86  
p-Isopropyltoluene  
Concen: 4.06 ug/l  
RT: 13.29 min Scan# 3639  
Delta R.T. 0.00 min  
Lab File: VN050115.D  
Acq: 27 Jul 2018 5:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.2  | 13.3  | 39.8  |
| 91      | 23.3  | 11.4  | 34.2  |



#95  
Naphthalene  
Concen: 40.67 ug/l  
RT: 15.14 min Scan# 4213  
Delta R.T. 0.00 min  
Lab File: VN050115.D  
Acq: 27 Jul 2018 5:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.7  | 10.4  | 15.6  |
| 129     | 11.2  | 8.8   | 13.2  |

