

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112320\  
 Data File : VN064791.D  
 Acq On : 23 Nov 2020 18:22  
 Operator : JC/MD  
 Sample : L4829-12 20X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-2

Quant Time: Nov 24 04:07:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 157251   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 282851   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 290328   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 141542   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99           | 65   | 100718     | 55.09   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = | 110.18% |       |          |
| 35) Dibromofluoromethane    | 7.55           | 113  | 87937      | 51.96   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = | 103.92% |       |          |
| 50) Toluene-d8              | 10.06          | 98   | 352650     | 51.00   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = | 102.00% |       |          |
| 62) 4-Bromofluorobenzene    | 12.38          | 95   | 142261     | 57.48   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = | 114.96% |       |          |

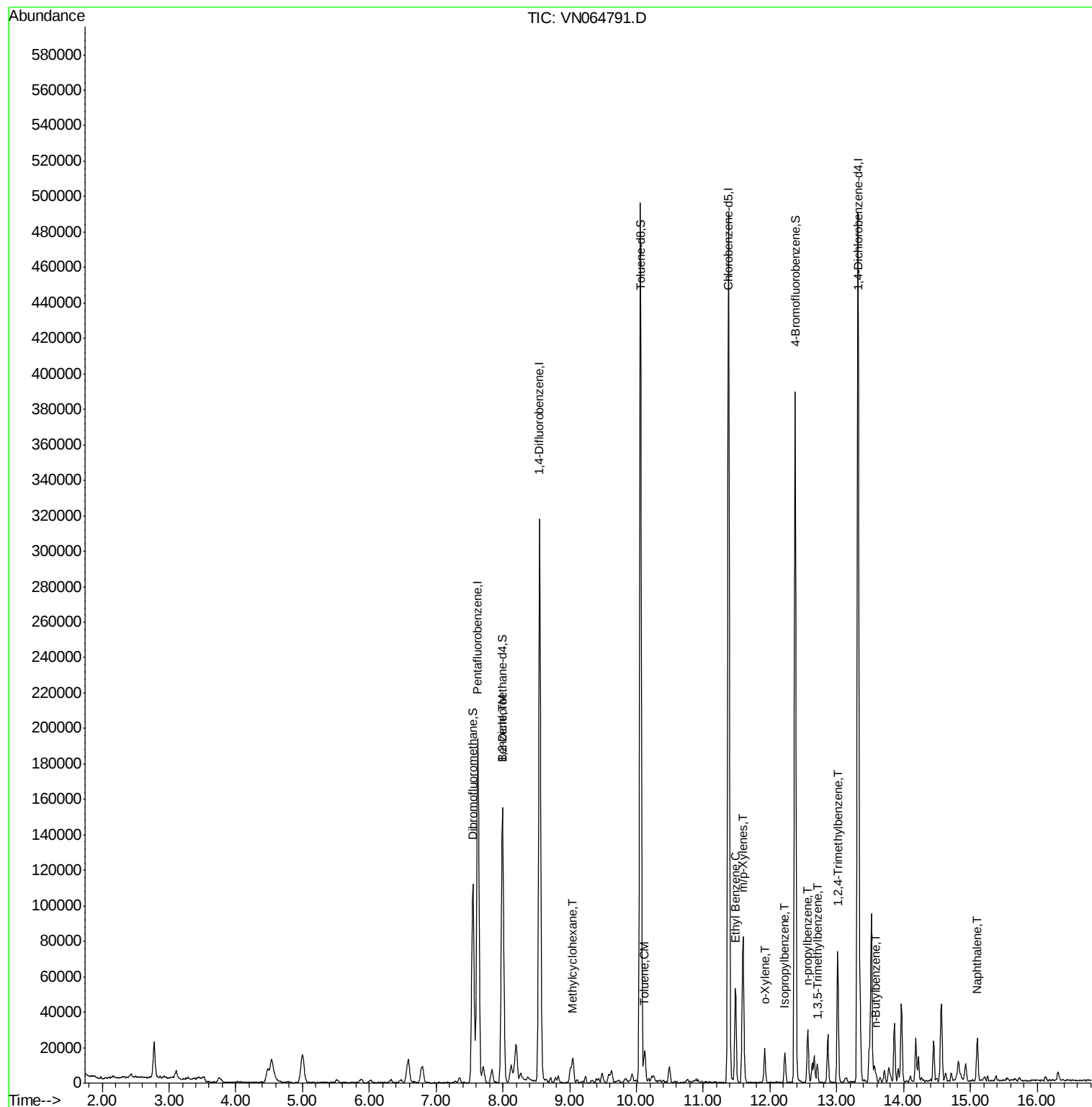
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 39) Methylcyclohexane      | 9.05  | 83   | 6301     | 2.233 | ug/l   | 92     |
| 40) Benzene                | 8.00  | 78   | 59678    | 7.428 | ug/l   | 92     |
| 52) Toluene                | 10.12 | 92   | 8200     | 1.657 | ug/l   | 100    |
| 67) Ethyl Benzene          | 11.49 | 91   | 38183    | 3.666 | ug/l   | 99     |
| 68) m/p-Xylenes            | 11.60 | 106  | 28666    | 7.269 | ug/l   | 96     |
| 69) o-Xylene               | 11.92 | 106  | 5359     | 1.432 | ug/l   | 97     |
| 73) Isopropylbenzene       | 12.22 | 105  | 11621    | 1.180 | ug/l   | 98     |
| 78) n-propylbenzene        | 12.57 | 91   | 24861    | 2.217 | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 12.71 | 105  | 6669     | 0.815 | ug/l   | 93     |
| 84) 1,2,4-Trimethylbenzene | 13.01 | 105  | 41851    | 5.058 | ug/l   | 98     |
| 89) n-Butylbenzene         | 13.59 | 91   | 3328     | 0.457 | ug/l # | 66     |
| 95) Naphthalene            | 15.11 | 128  | 22268    | 2.595 | ug/l   | 99     |

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 23 13:54:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064791.D

Acq: 23 Nov 2020 18:22

Instrument :

MSVOA\_N

ClientSampled :

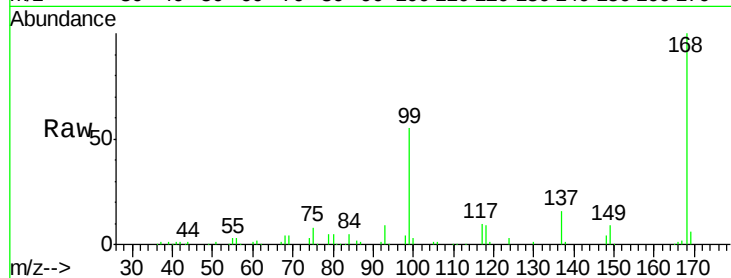
MW-2

Tot Ion:168 Resp: 157251

Ion Ratio Lower Upper

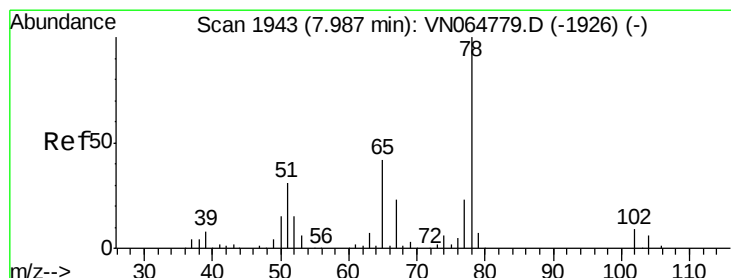
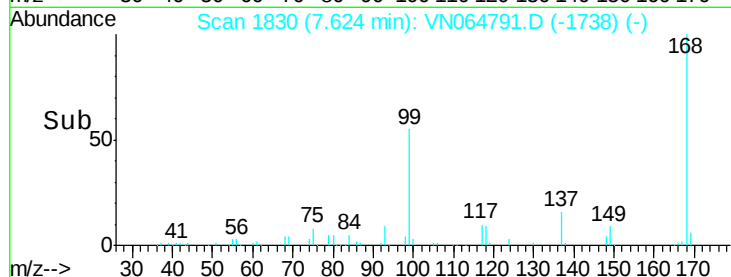
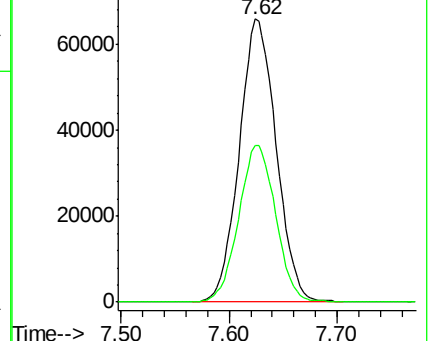
168 100

99 55.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#33

1,2-Dichloroethane-d4

Concen: 55.093 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064791.D

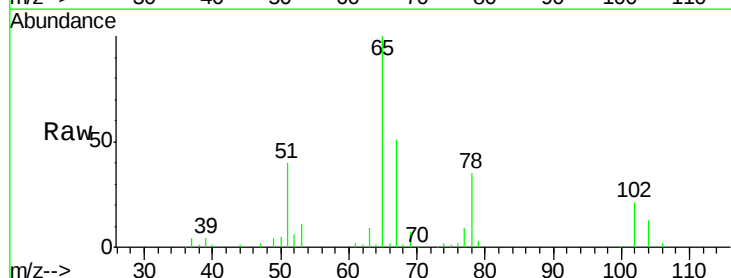
Acq: 23 Nov 2020 18:22

Tgt Ion: 65 Resp: 100718

Ion Ratio Lower Upper

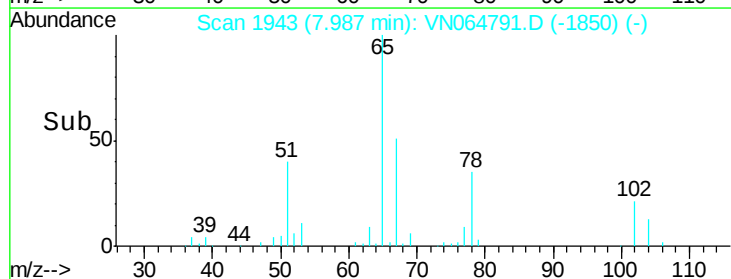
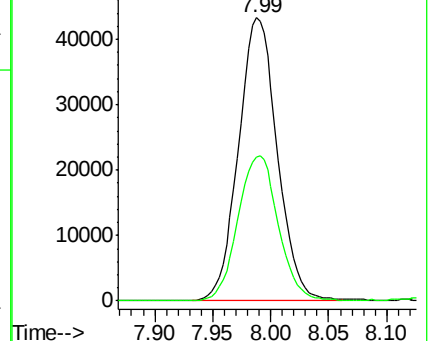
65 100

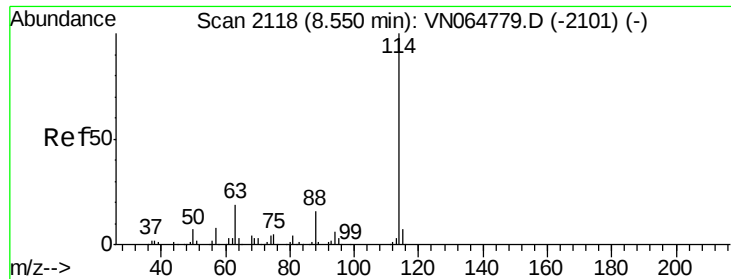
67 53.2 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

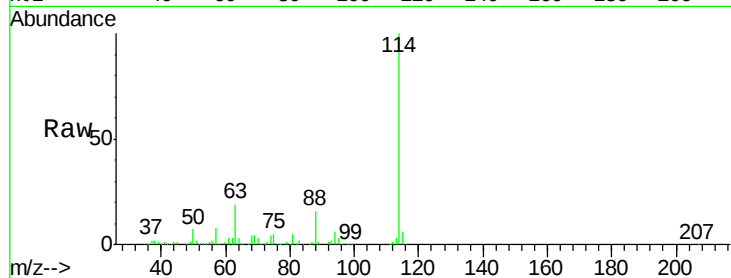




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064791.D  
 Acq: 23 Nov 2020 18:22

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-2

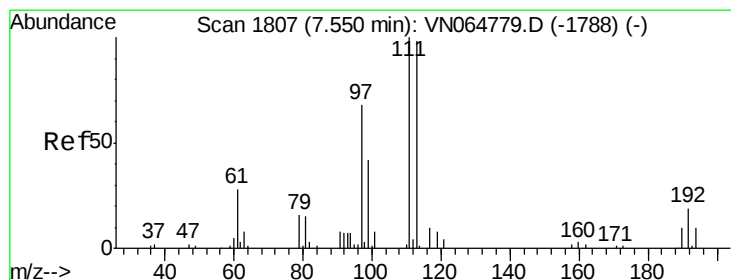
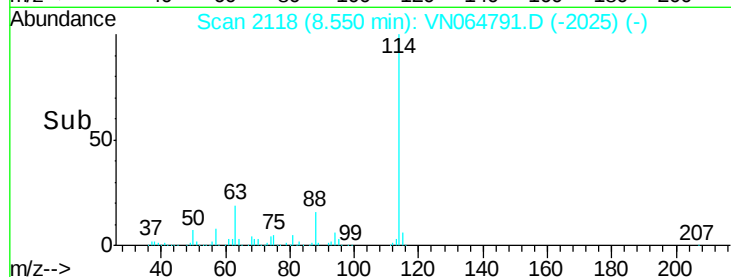
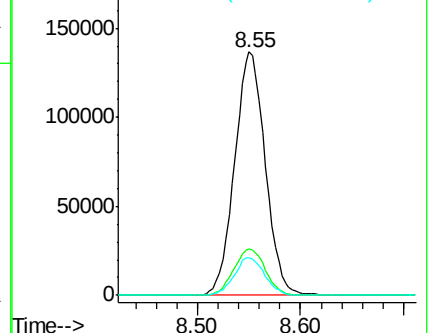
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.9  | 0.0   | 38.6  |
| 88      | 15.5  | 0.0   | 32.6  |



Abundance Ion 113.90 (113.60 to 114.60): V

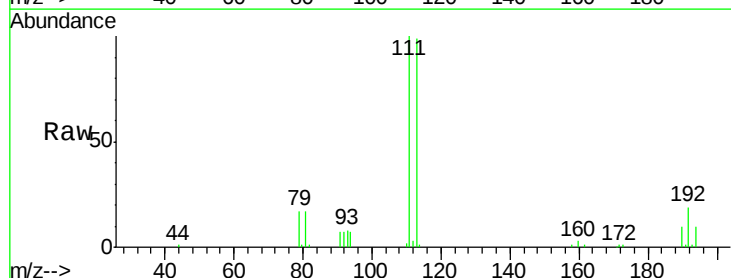
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35  
 Dibromofluoromethane  
 Concen: 51.957 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN064791.D  
 Acq: 23 Nov 2020 18:22

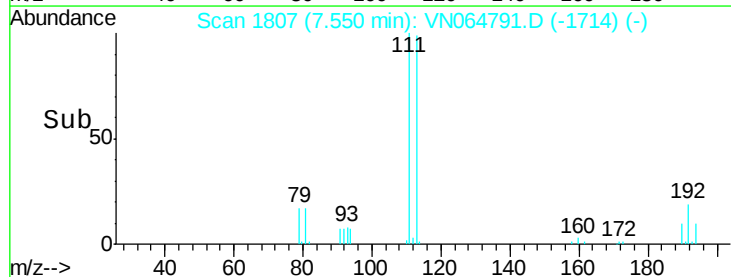
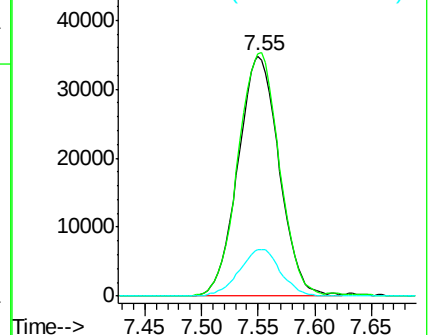
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.6  | 122.4 |
| 192     | 19.5  | 16.2  | 24.2  |

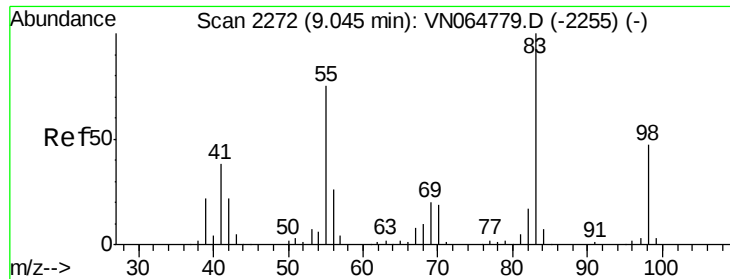


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

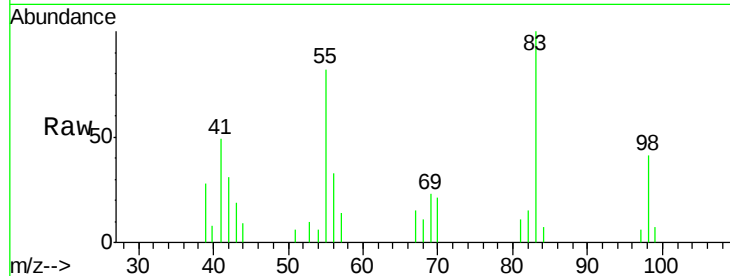




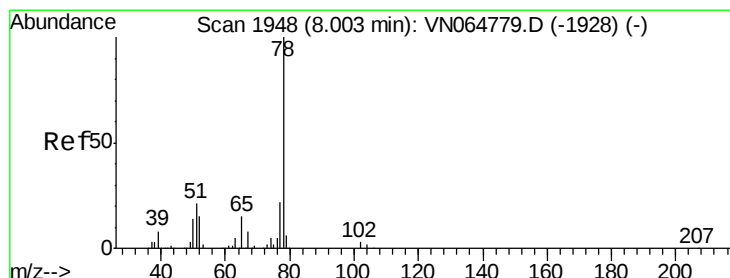
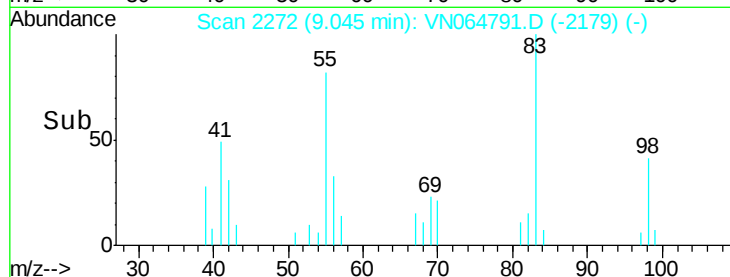
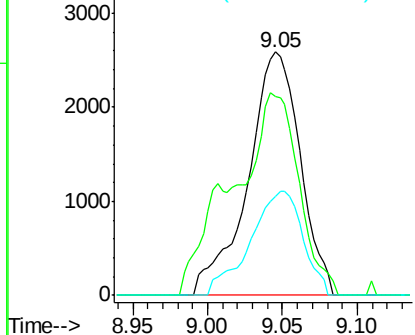
#39  
Methvlcvclohexane  
Concen: 2.233 ug/l  
RT: 9.05 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VN064791.D  
Acq: 23 Nov 2020 18:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-2

Tot Ion: 83 Resp: 6301  
Ion Ratio Lower Upper  
83 100  
55 81.6 60.2 90.2  
98 40.6 37.4 56.2

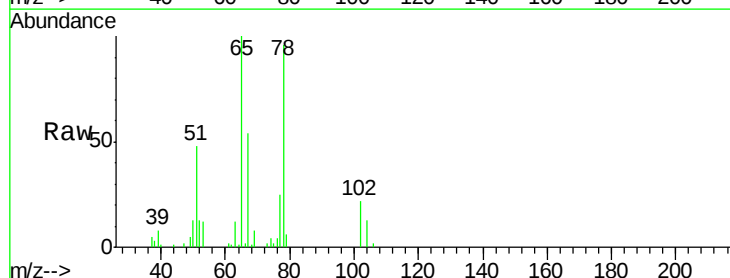


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

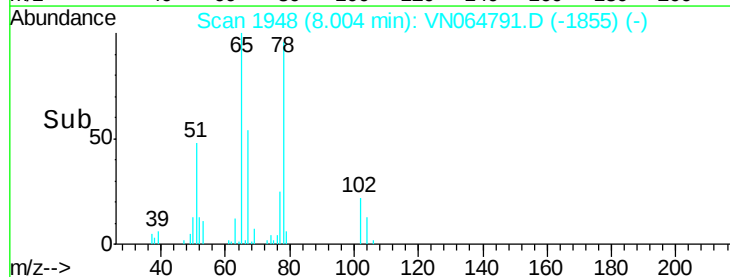
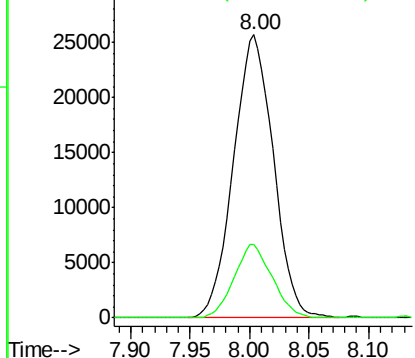


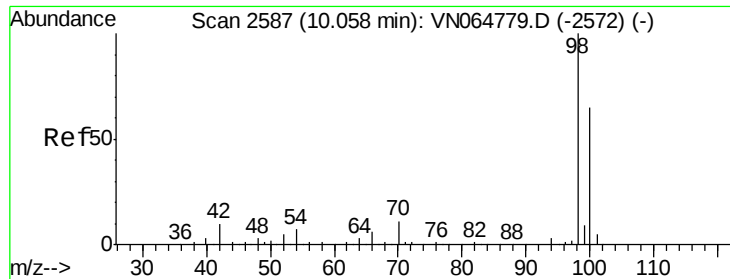
#40  
Benzene  
Concen: 7.428 ug/l  
RT: 8.00 min Scan# 1948  
Delta R.T. 0.00 min  
Lab File: VN064791.D  
Acq: 23 Nov 2020 18:22

Tgt Ion: 78 Resp: 59678  
Ion Ratio Lower Upper  
78 100  
77 26.0 17.9 26.9



Abundance Ion 78.00 (77.70 to 78.70): VN0  
Ion 77.00 (76.70 to 77.70): VN0





#50

Toluene-d8

Concen: 50.995 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064791.D

Acq: 23 Nov 2020 18:22

Instrument :

MSVOA\_N

ClientSampled :

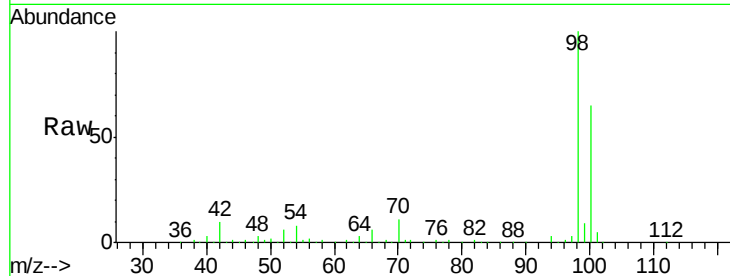
MW-2

Tot Ion: 98 Resp: 352650

Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

10.06

200000

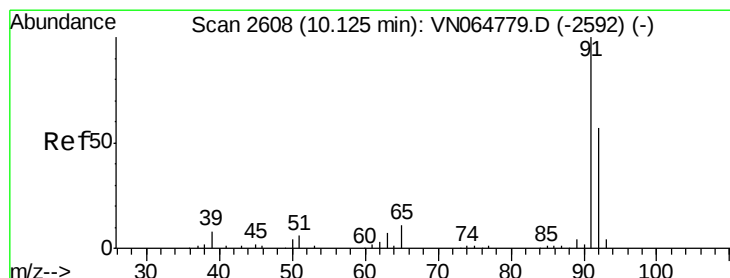
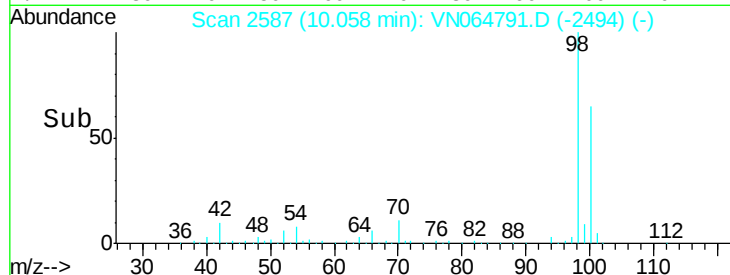
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 1.657 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064791.D

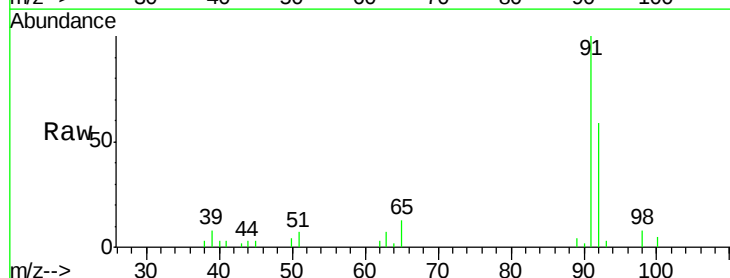
Acq: 23 Nov 2020 18:22

Tgt Ion: 92 Resp: 8200

Ion Ratio Lower Upper

92 100

91 173.9 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN064779.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN064779.D (-2592) (-)

10.12

8000

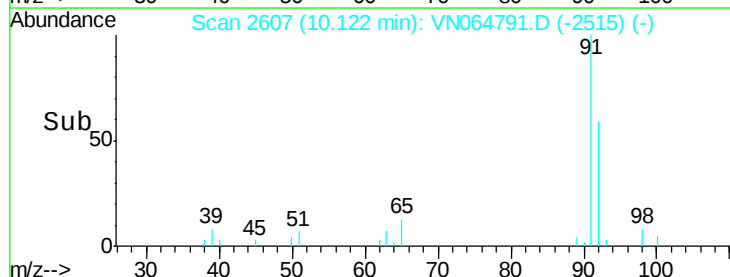
6000

4000

2000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 57.482 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064791.D

Acq: 23 Nov 2020 18:22

Instrument :

MSVOA\_N

ClientSampled :

MW-2

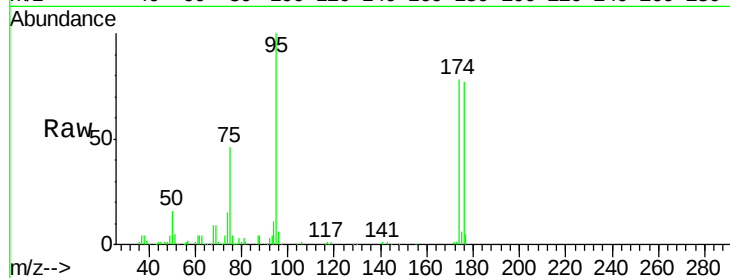
Tot Ion: 95 Resp: 142261

Ion Ratio Lower Upper

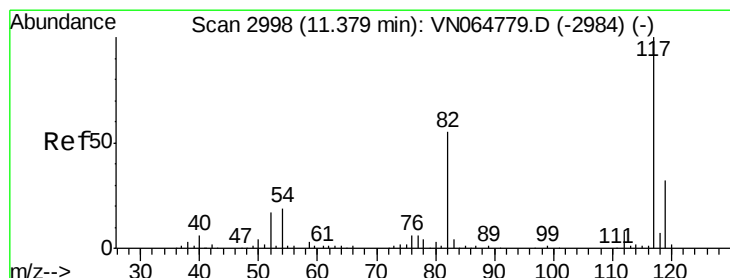
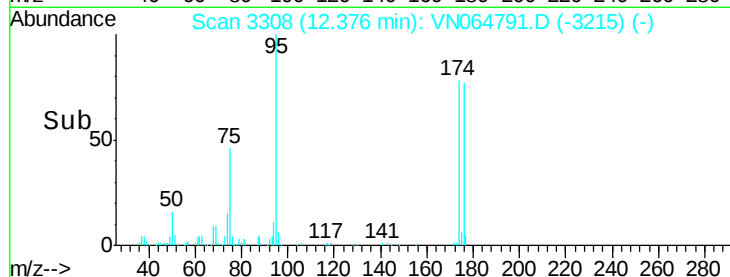
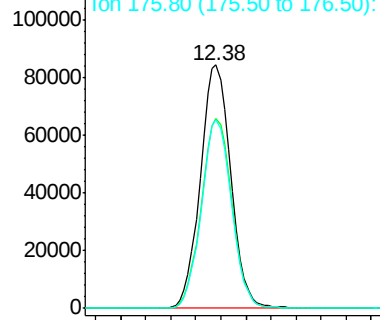
95 100

174 79.0 0.0 160.4

176 77.0 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN064791.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064791.D

Acq: 23 Nov 2020 18:22

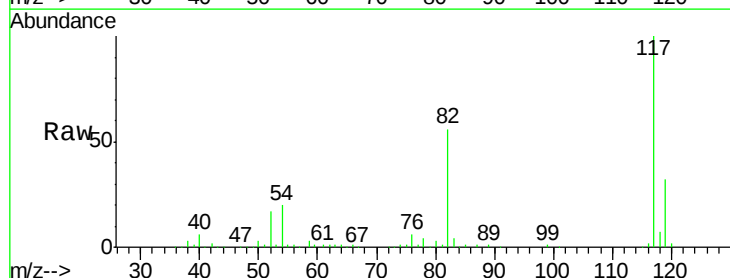
Tgt Ion: 117 Resp: 290328

Ion Ratio Lower Upper

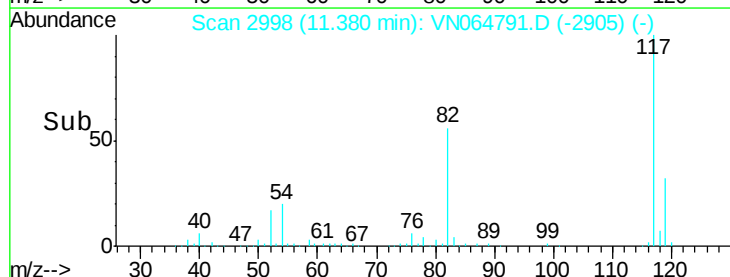
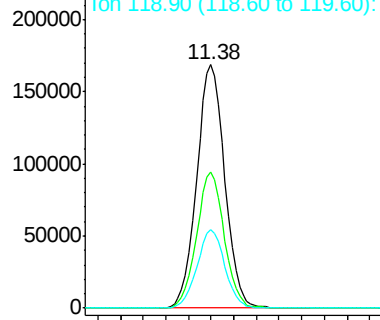
117 100

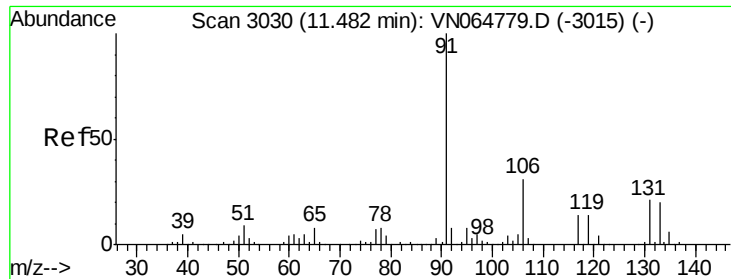
82 55.9 44.2 66.2

119 32.0 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN064791.D (-2905) (-)

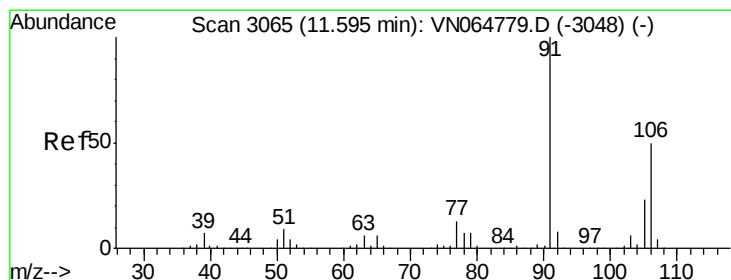
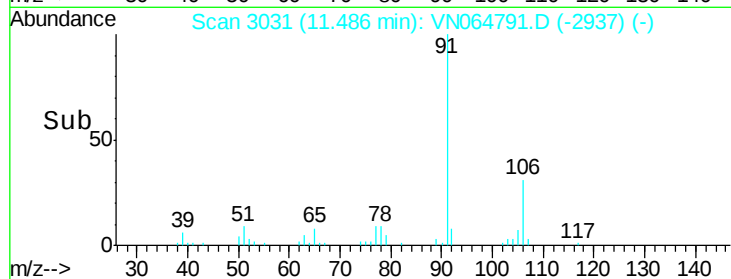
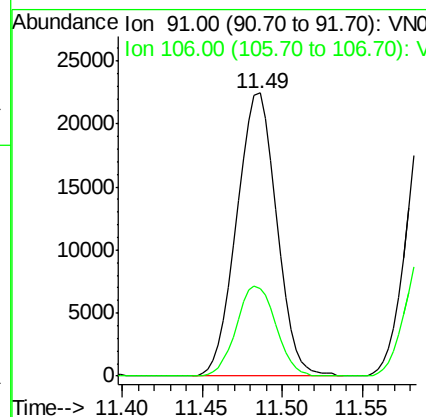
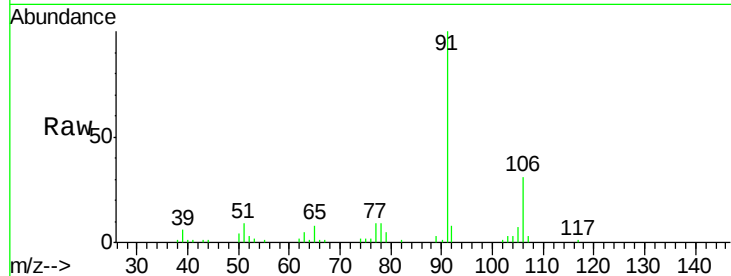




#67  
Ethyl Benzene  
Concen: 3.666 ug/l  
RT: 11.49 min Scan# 3031  
Delta R.T. 0.00 min  
Lab File: VN064791.D  
Acq: 23 Nov 2020 18:22

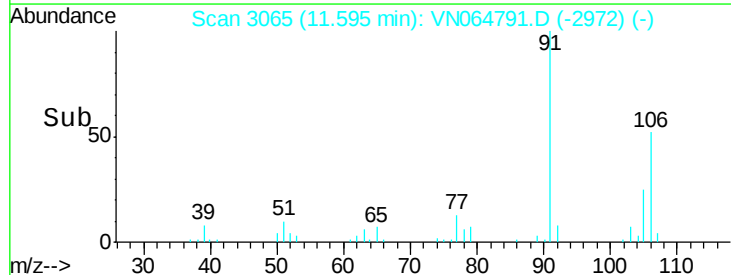
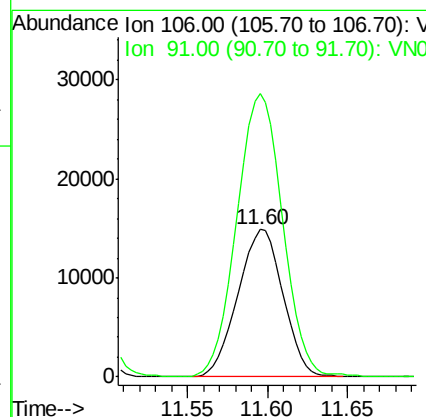
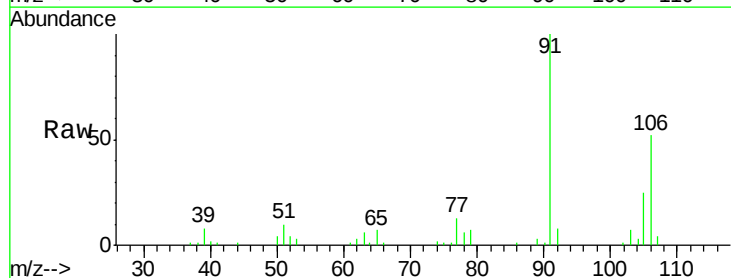
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-2

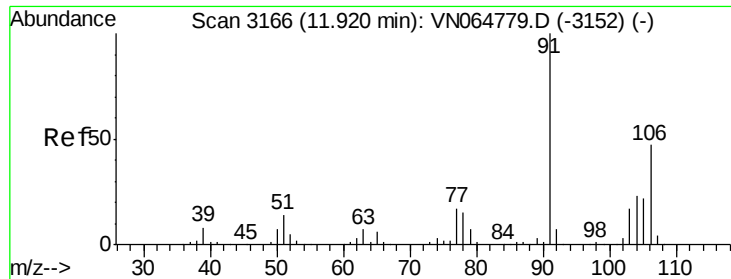
Tot Ion: 91 Resp: 38183  
Ion Ratio Lower Upper  
91 100  
106 30.9 25.2 37.8



#68  
m/p-Xylenes  
Concen: 7.269 ug/l  
RT: 11.60 min Scan# 3065  
Delta R.T. 0.00 min  
Lab File: VN064791.D  
Acq: 23 Nov 2020 18:22

Tgt Ion: 106 Resp: 28666  
Ion Ratio Lower Upper  
106 100  
91 195.4 161.0 241.4

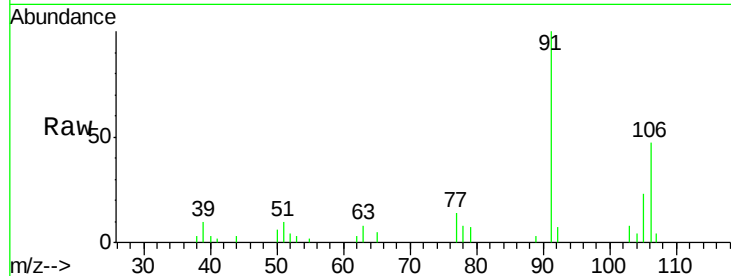




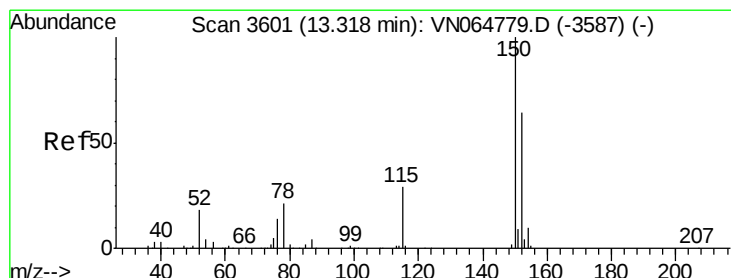
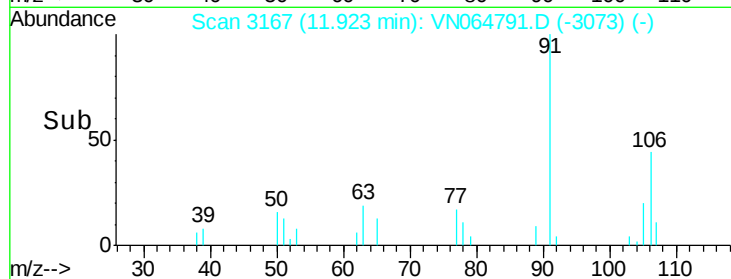
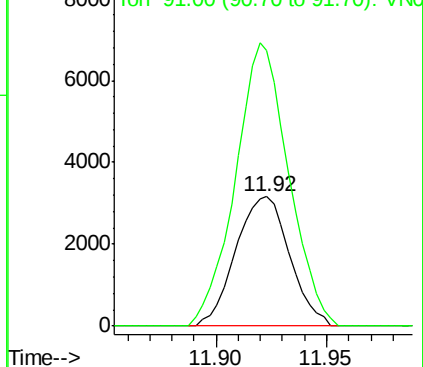
#69  
o-Xylene  
Concen: 1.432 ug/l  
RT: 11.92 min Scan# 3167  
Delta R.T. 0.00 min  
Lab File: VN064791.D  
Acq: 23 Nov 2020 18:22

Instrument :  
MSVOA\_N  
ClientSampled :  
MW-2

Tot Ion:106 Resp: 5359  
Ion Ratio Lower Upper  
106 100  
91 215.4 105.5 316.5

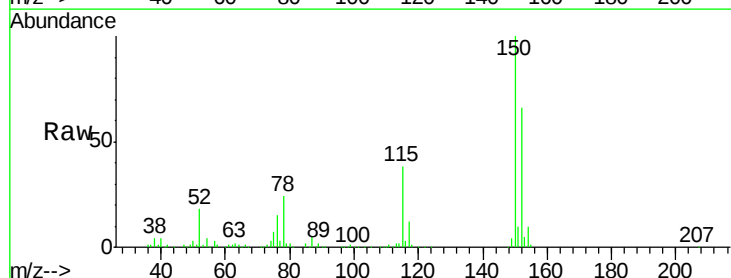


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

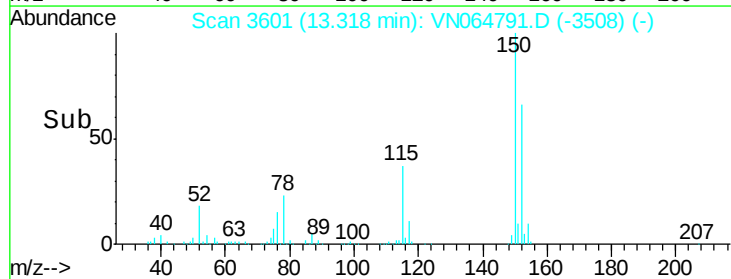
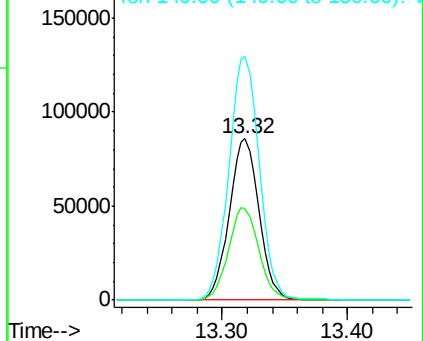


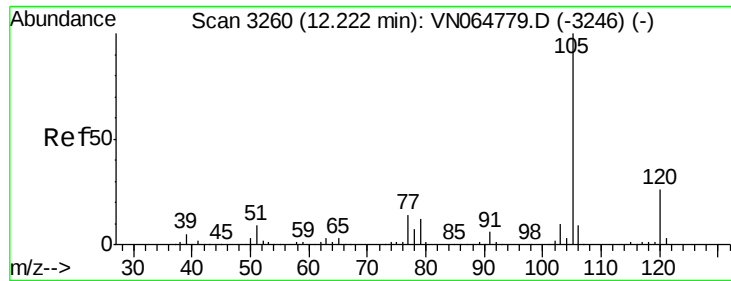
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN064791.D  
Acq: 23 Nov 2020 18:22

Tgt Ion:152 Resp: 141542  
Ion Ratio Lower Upper  
152 100  
115 58.8 29.7 89.1  
150 155.3 0.0 350.6



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: 1.180 ug/l

RT: 12.22 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN064791.D

Acq: 23 Nov 2020 18:22

Instrument :

MSVOA\_N

ClientSampled :

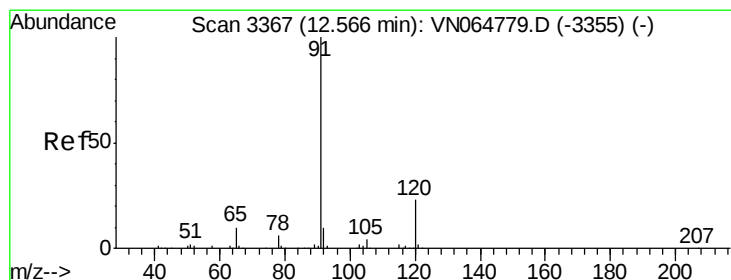
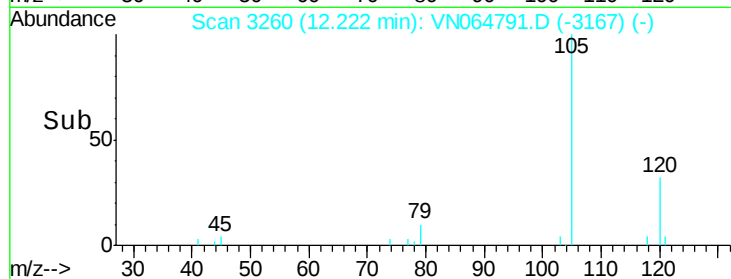
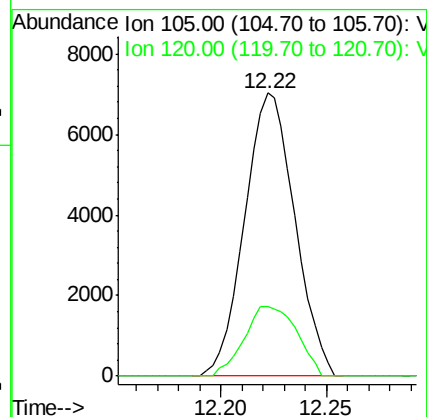
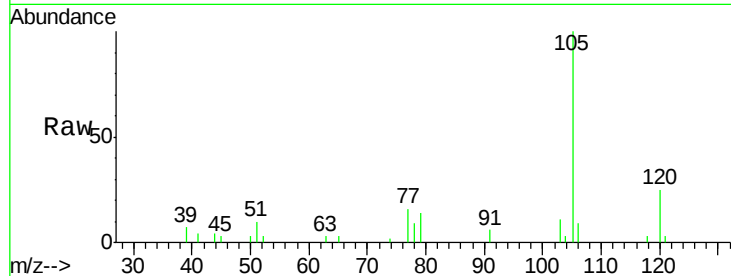
MW-2

Tot Ion:105 Resp: 11621

Ion Ratio Lower Upper

105 100

120 25.6 13.3 39.9



#78

n-propylbenzene

Concen: 2.217 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. 0.00 min

Lab File: VN064791.D

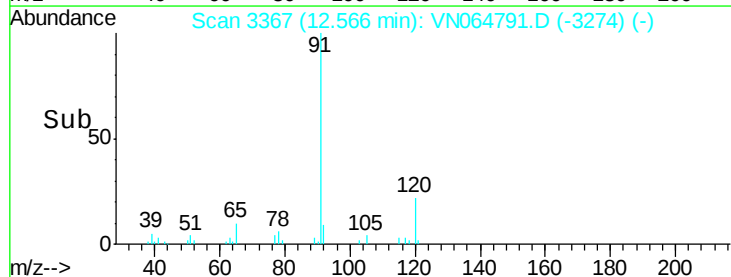
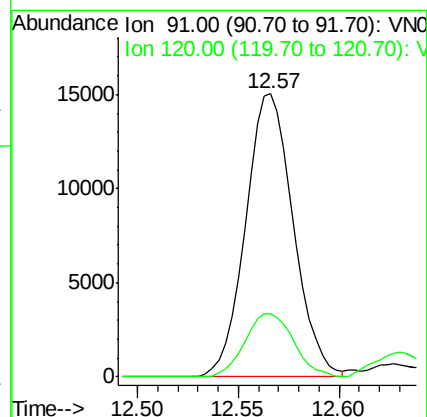
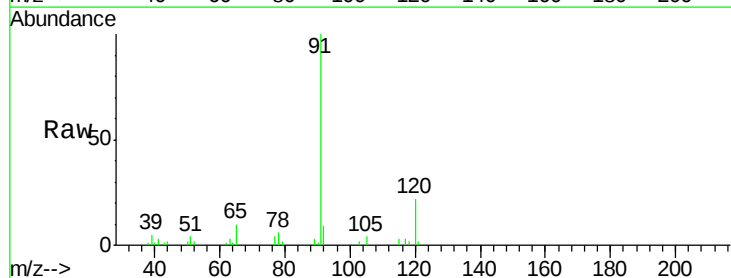
Acq: 23 Nov 2020 18:22

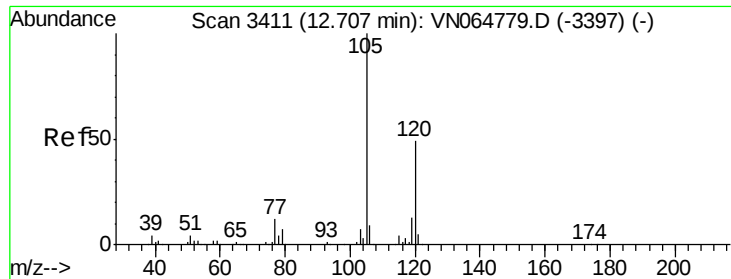
Tgt Ion: 91 Resp: 24861

Ion Ratio Lower Upper

91 100

120 22.7 11.6 34.7

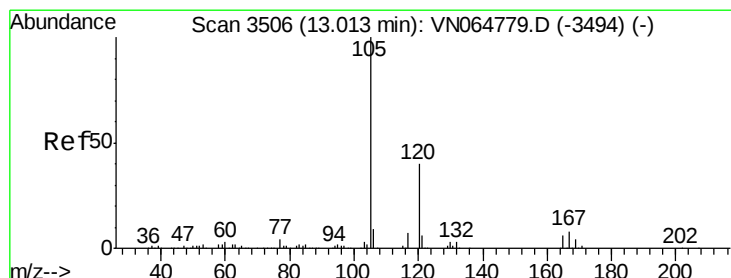
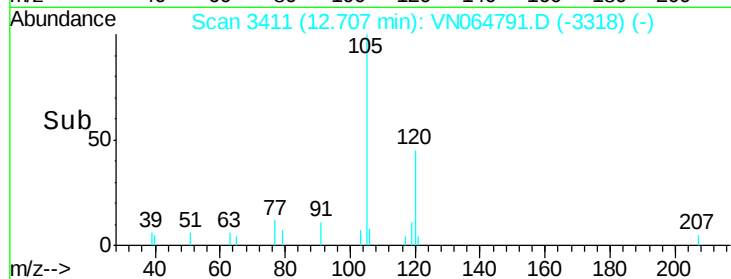
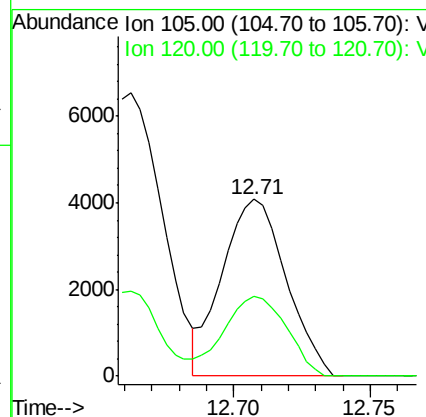
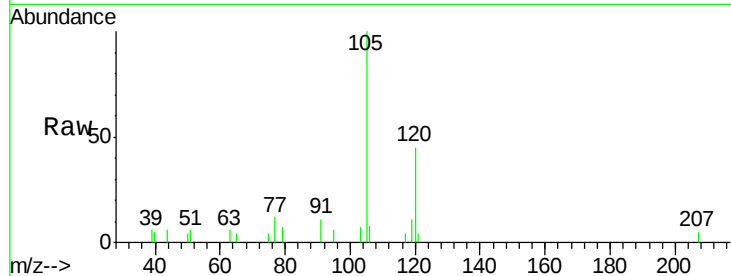




#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.815 ug/l  
 RT: 12.71 min Scan# 3411  
 Delta R.T. 0.00 min  
 Lab File: VN064791.D  
 Acq: 23 Nov 2020 18:22

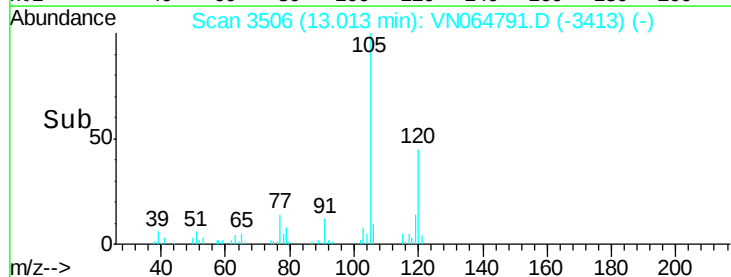
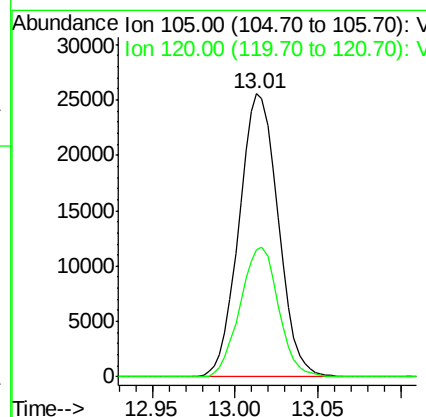
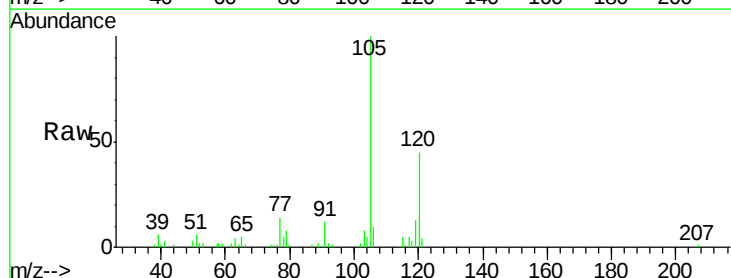
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-2

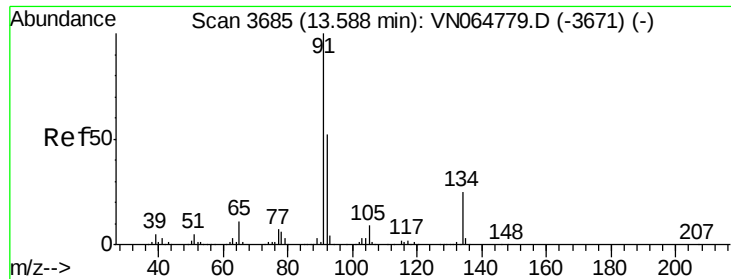
Tot Ion:105 Resp: 6669  
 Ion Ratio Lower Upper  
 105 100  
 120 44.1 24.6 73.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 5.058 ug/l  
 RT: 13.01 min Scan# 3506  
 Delta R.T. 0.00 min  
 Lab File: VN064791.D  
 Acq: 23 Nov 2020 18:22

Tgt Ion:105 Resp: 41851  
 Ion Ratio Lower Upper  
 105 100  
 120 44.8 23.1 69.2





#89

n-Butylbenzene

Concen: 0.457 ug/l

RT: 13.59 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN064791.D

Acq: 23 Nov 2020 18:22

Instrument :

MSVOA\_N

ClientSampled :

MW-2

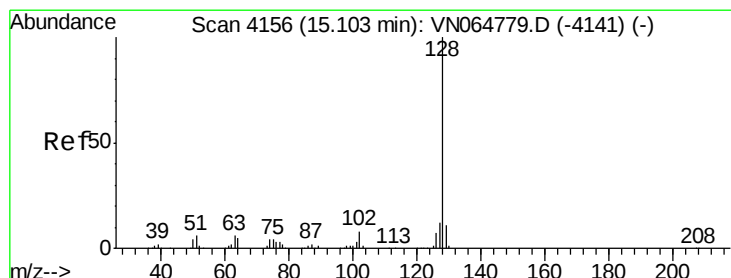
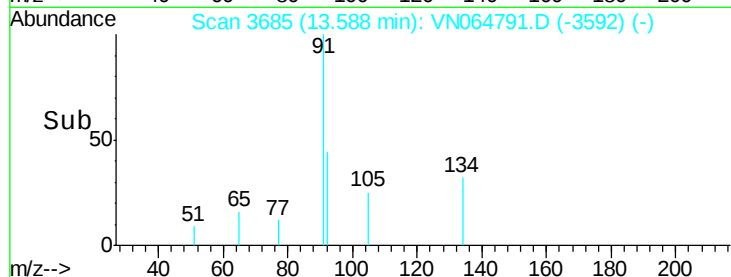
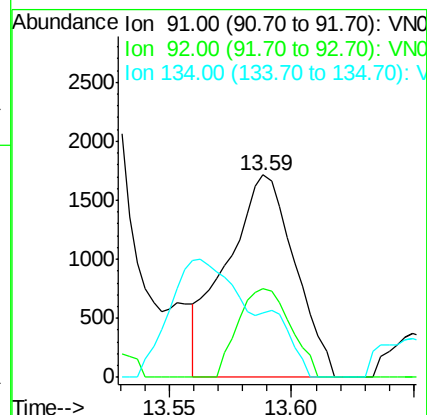
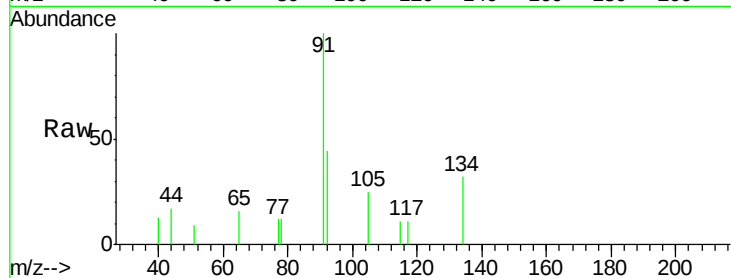
Tot Ion: 91 Resp: 3328

Ion Ratio Lower Upper

91 100

92 33.8 26.0 78.0

134 0.0 12.9 38.6#



#95

Naphthalene

Concen: 2.595 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN064791.D

Acq: 23 Nov 2020 18:22

Tgt Ion: 128 Resp: 22268

Ion Ratio Lower Upper

128 100

127 12.2 10.3 15.5

129 11.2 8.7 13.1

