

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN121718\  
 Data File : VN052920.D  
 Acq On : 17 Dec 2018 12:04  
 Operator : MD\SY  
 Sample : J6437-03 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 23574

Quant Time: Dec 18 05:40:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 13 01:08:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1370172  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2101379  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1866692  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 775941   | 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   | 671772   | 46.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.22%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 503981   | 42.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.94%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 2555821  | 50.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.50% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 851850   | 49.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.86%  |          |

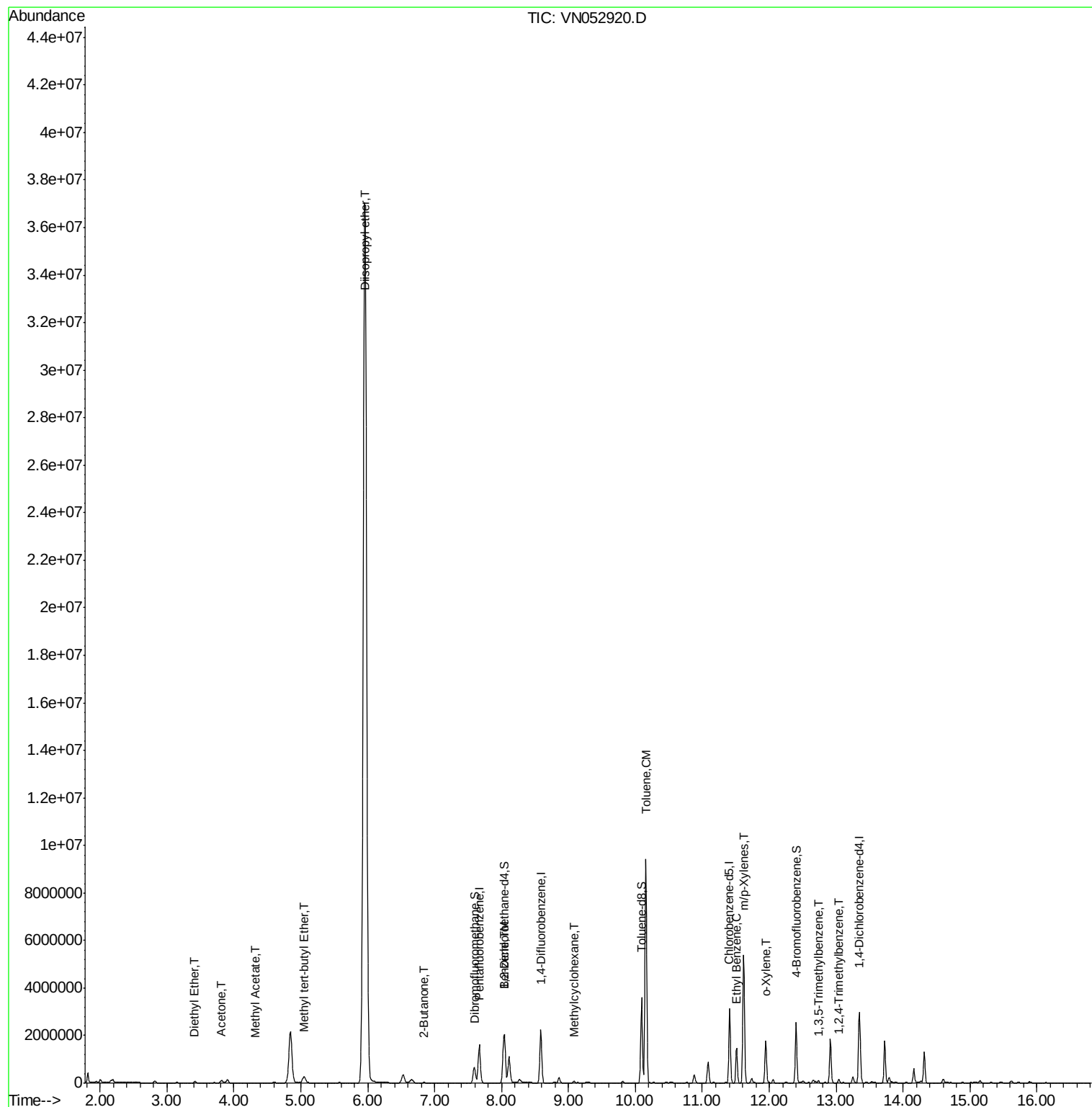
| Target Compounds            | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether            | 3.42  | 74   | 38493    | 5.026   | ug/l   | 100    |
| 16) Acetone                 | 3.82  | 43   | 169078   | 51.673  | ug/l   | 94     |
| 18) Methyl Acetate          | 4.33  | 43   | 21281    | 1.772   | ug/l # | 76     |
| 19) Methyl tert-butyl Ether | 5.05  | 73   | 406008   | 11.872  | ug/l   | 91     |
| 22) Diisopropyl ether       | 5.96  | 45   | 1601197  | 36.477  | ug/l # | 1      |
| 25) 2-Butanone              | 6.84  | 43   | 24020    | 4.731   | ug/l   | 96     |
| 39) Methylcyclohexane       | 9.08  | 83   | 31155    | 1.312   | ug/l   | 99     |
| 40) Benzene                 | 8.04  | 78   | 1662992  | 28.633  | ug/l   | 99     |
| 52) Toluene                 | 10.16 | 92   | 4186320  | 119.010 | ug/l   | 100    |
| 67) Ethyl Benzene           | 11.51 | 91   | 1106084  | 16.631  | ug/l   | 99     |
| 68) m/p-Xylenes             | 11.62 | 106  | 1726075  | 69.119  | ug/l   | 100    |
| 69) o-Xylene                | 11.95 | 106  | 506300   | 20.763  | ug/l   | 100    |
| 80) 1,3,5-Trimethylbenzene  | 12.73 | 105  | 55341    | 1.183   | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene  | 13.04 | 105  | 93143    | 1.967   | ug/l   | 97     |

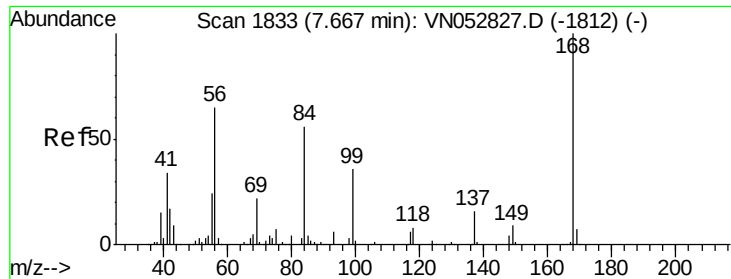
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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23574

Quant Time: Dec 18 05:40:42 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 13 01:08:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052920.D

Acq: 17 Dec 2018 12:04

Instrument :

MSVOA\_N

ClientSampleId :

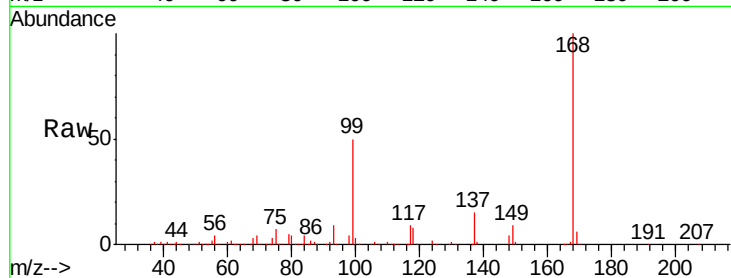
23574

Tgt Ion:168 Resp: 1370172

Ion Ratio Lower Upper

168 100

99 49.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052920.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052920.D (-1740) (-)

7.67

600000

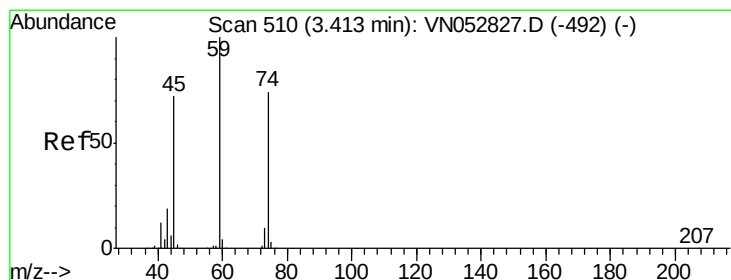
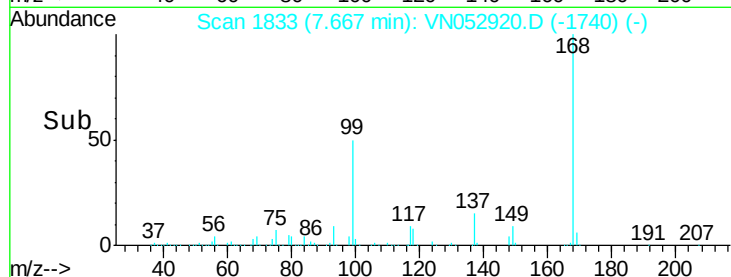
400000

200000

0

7.60 7.70 7.80

Time-->



#8

Diethyl Ether

Concen: 5.026 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN052920.D

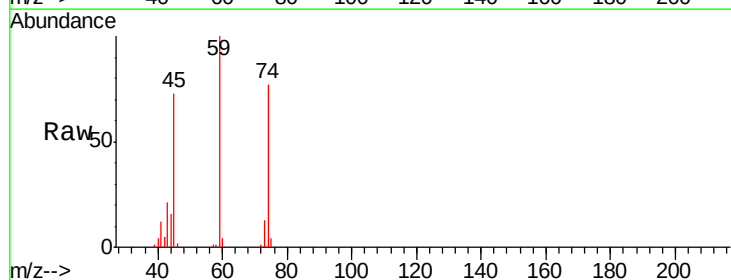
Acq: 17 Dec 2018 12:04

Tgt Ion: 74 Resp: 38493

Ion Ratio Lower Upper

74 100

45 98.2 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN052920.D (-417) (-)

Ion 45.00 (44.70 to 45.70): VN052920.D (-417) (-)

3.42

20000

15000

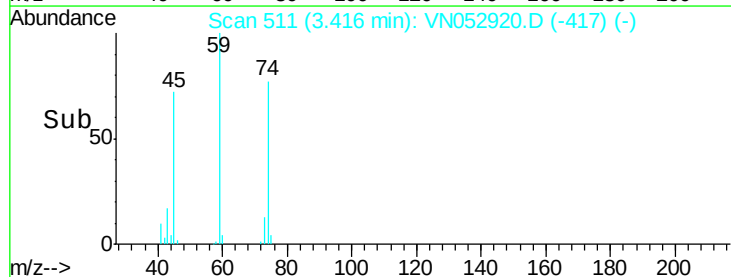
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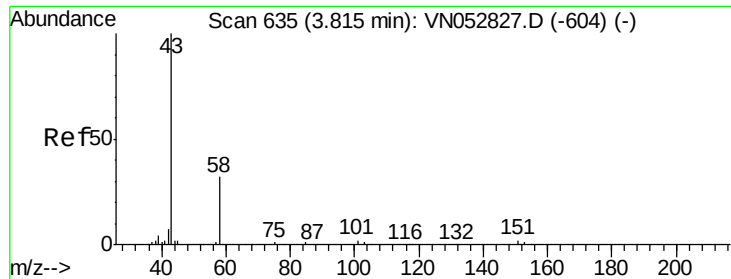
5000

0

3.35 3.40 3.45 3.50

Time-->





#16

Acetone

Concen: 51.673 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052920.D

Acq: 17 Dec 2018 12:04

Instrument :

MSVOA\_N

ClientSampled :

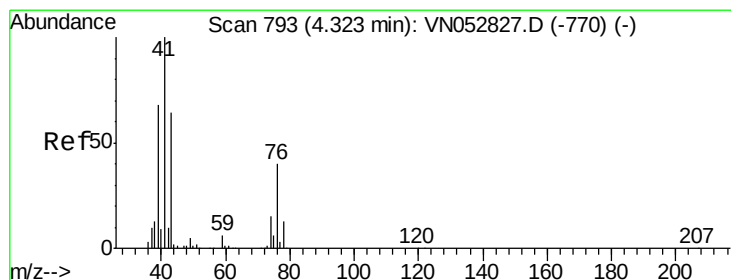
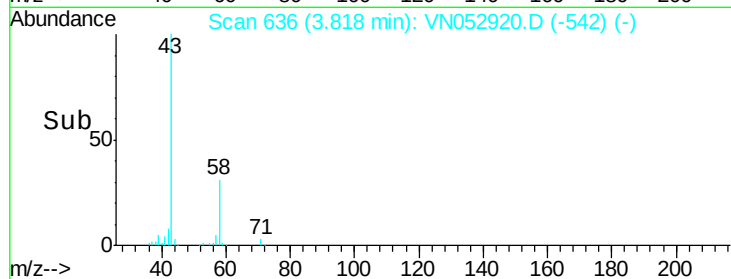
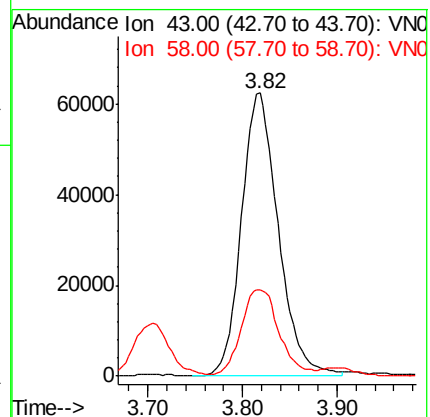
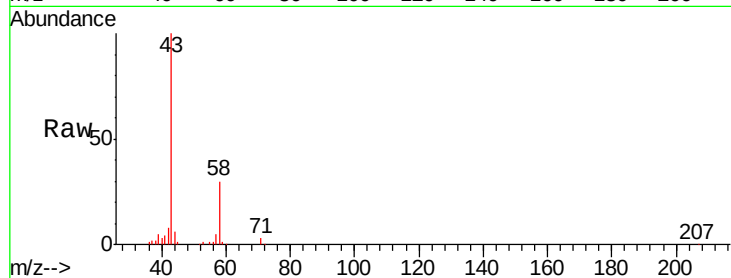
23574

Tgt Ion: 43 Resp: 169078

Ion Ratio Lower Upper

43 100

58 28.4 25.4 38.0



#18

Methyl Acetate

Concen: 1.772 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN052920.D

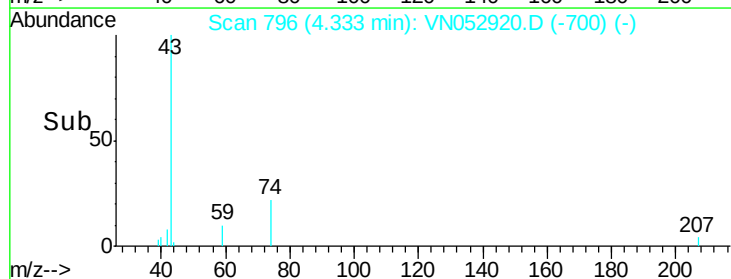
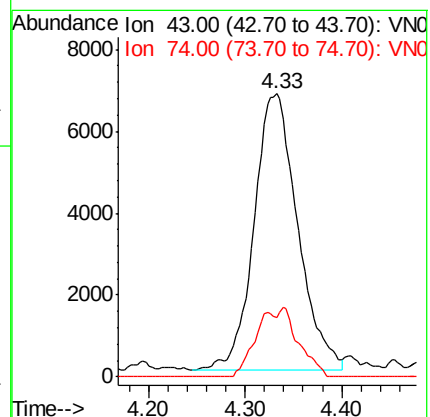
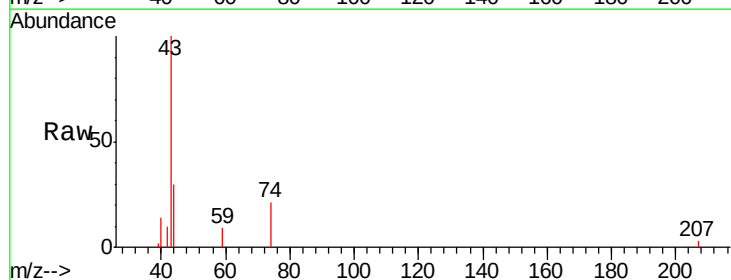
Acq: 17 Dec 2018 12:04

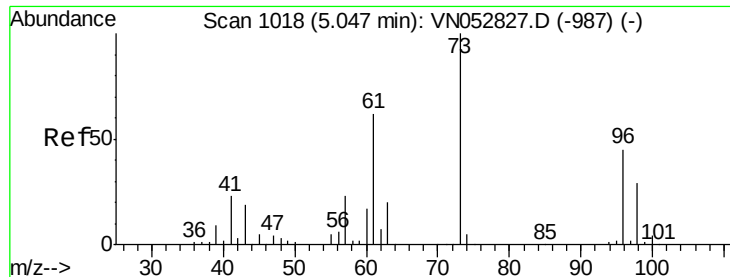
Tgt Ion: 43 Resp: 21281

Ion Ratio Lower Upper

43 100

74 12.2 19.2 28.8#

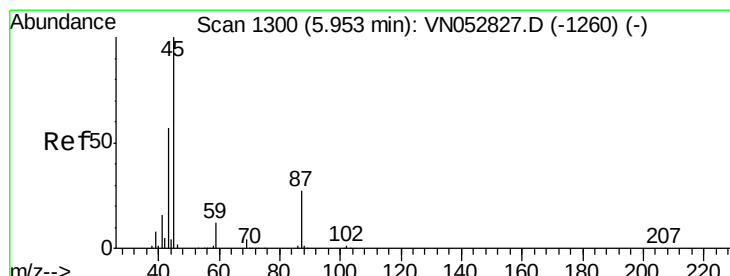
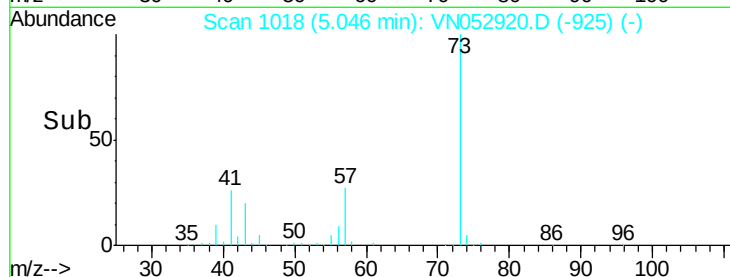
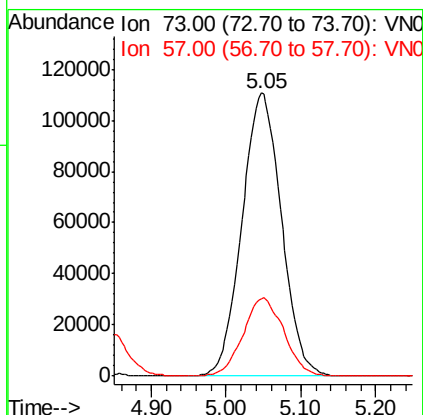
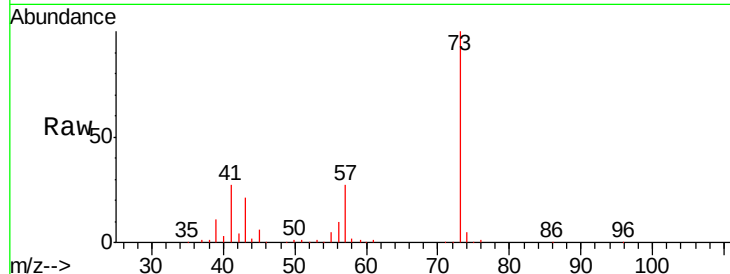




#19  
Methyl tert-butyl Ether  
Concen: 11.872 ug/l  
RT: 5.05 min Scan# 1018  
Delta R.T. -0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

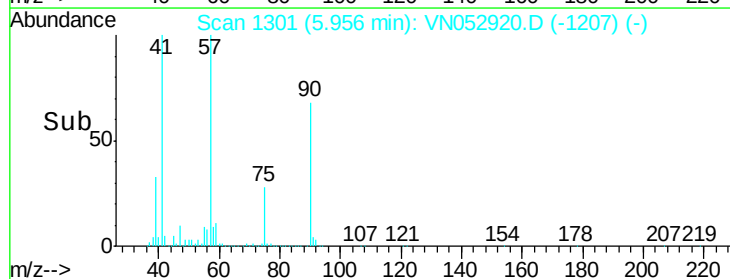
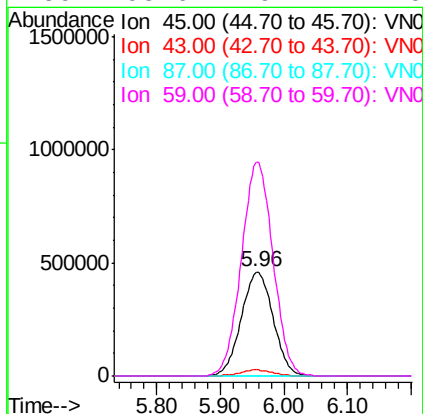
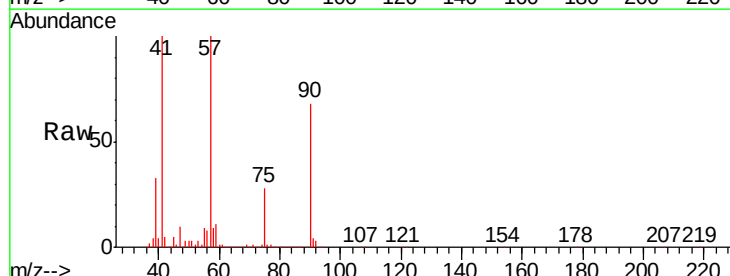
Instrument :  
MSVOA\_N  
ClientSampled :  
23574

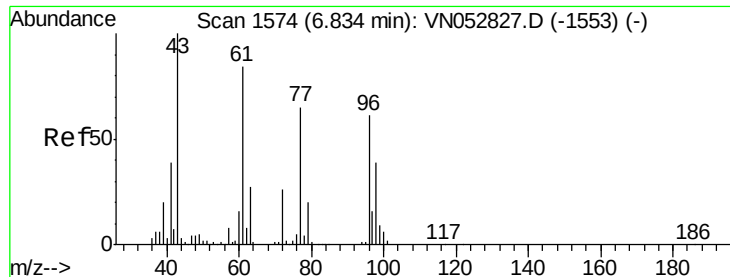
Tgt Ion: 73 Resp: 406008  
Ion Ratio Lower Upper  
73 100  
57 27.3 18.4 27.6



#22  
Diisopropyl ether  
Concen: 36.477 ug/l  
RT: 5.96 min Scan# 1301  
Delta R.T. 0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

Tgt Ion: 45 Resp: 1601197  
Ion Ratio Lower Upper  
45 100  
43 5.7 45.5 68.3#  
87 0.5 22.0 33.0#  
59 205.6 9.4 14.0#

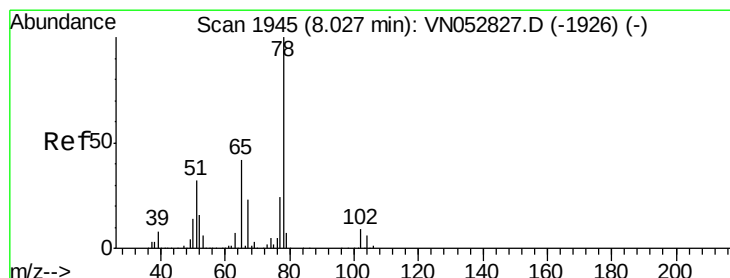
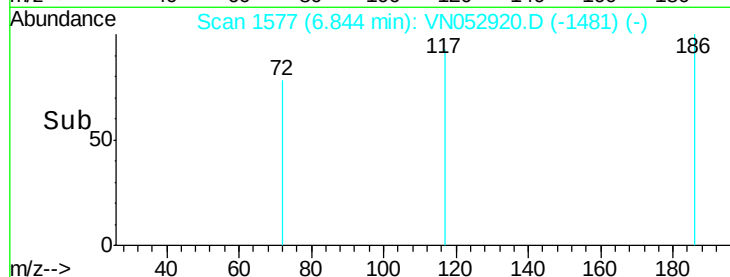
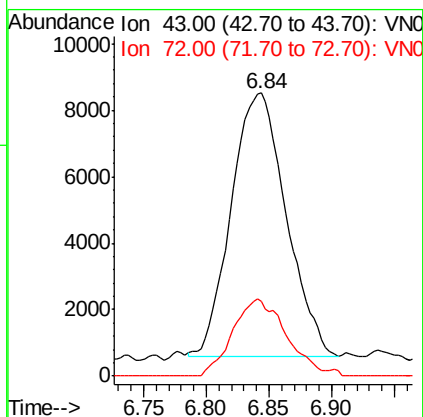
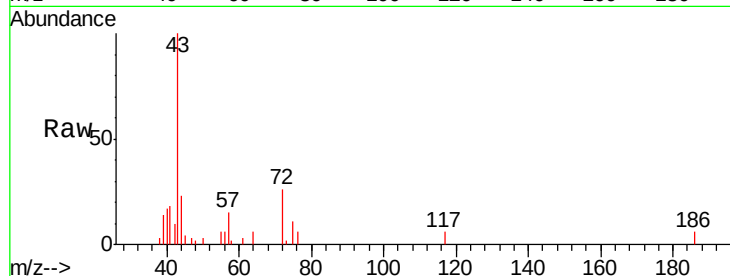




#25  
2-Butanone  
Concen: 4.731 ug/l  
RT: 6.84 min Scan# 1577  
Delta R.T. 0.01 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

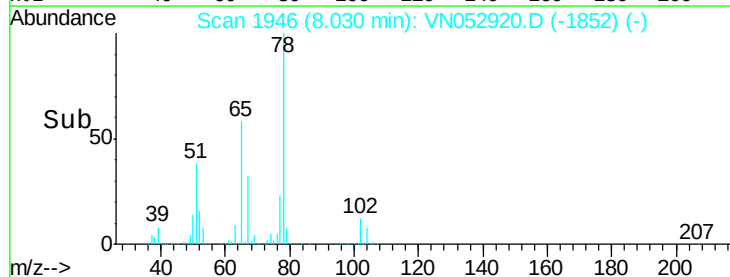
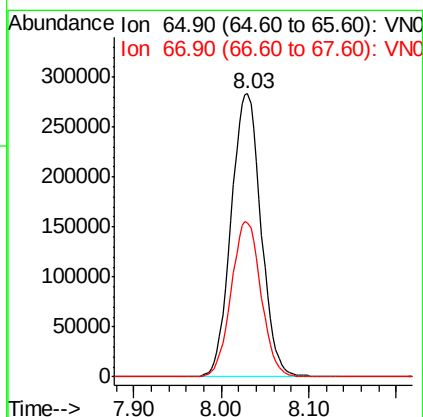
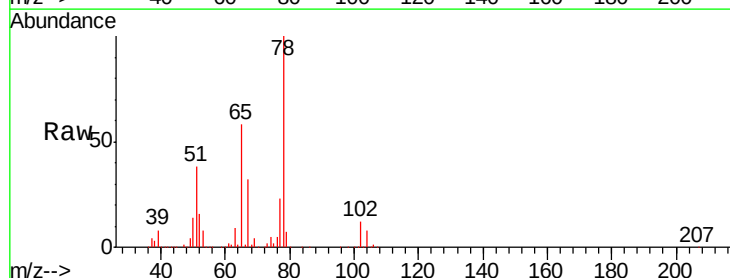
Instrument :  
MSVOA\_N  
ClientSampleId :  
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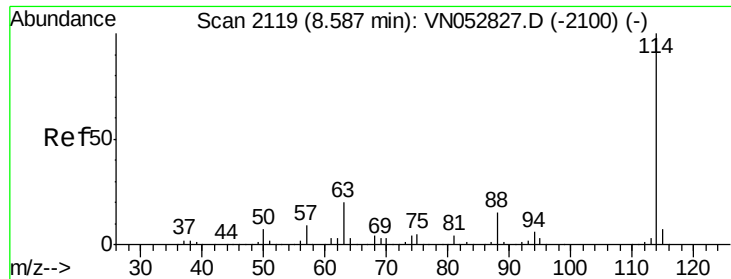
Tgt Ion: 43 Resp: 24020  
Ion Ratio Lower Upper  
43 100  
72 28.4 21.0 31.6



#33  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 8.03 min Scan# 1946  
Delta R.T. 0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

Tgt Ion: 65 Resp: 671772  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 110.4

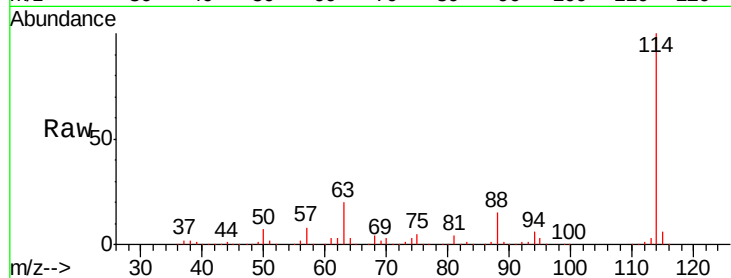




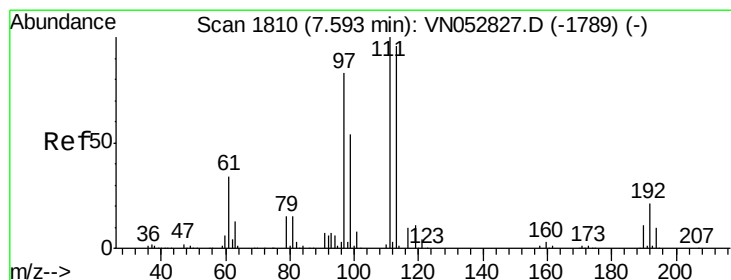
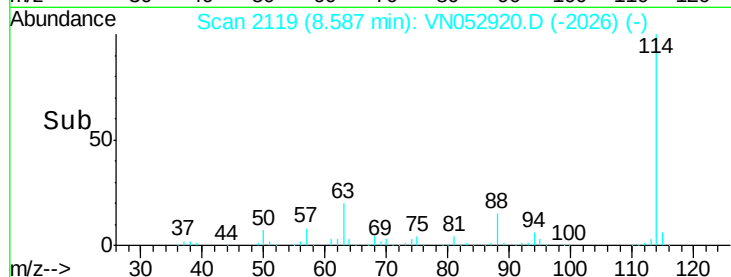
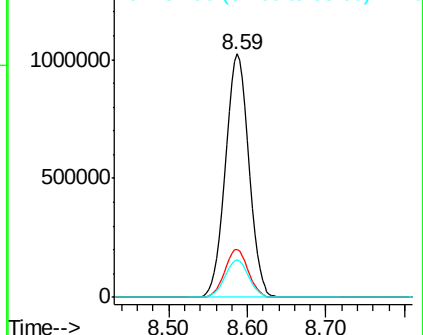
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052920.D  
 Acq: 17 Dec 2018 12:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 23574

Tgt Ion:114 Resp: 2101379  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 39.8  
 88 15.3 0.0 31.0

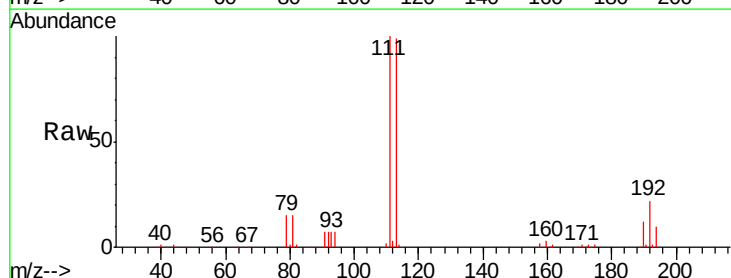


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

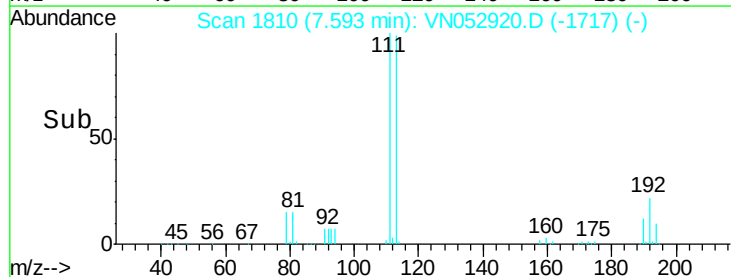
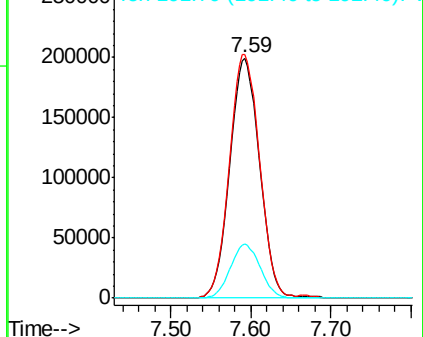


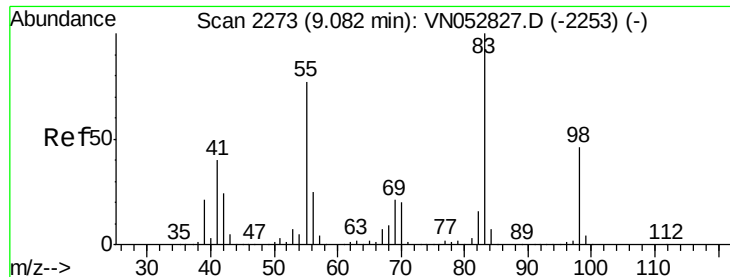
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN052920.D  
 Acq: 17 Dec 2018 12:04

Tgt Ion:113 Resp: 503981  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 83.0 124.4  
 192 22.4 17.5 26.3



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

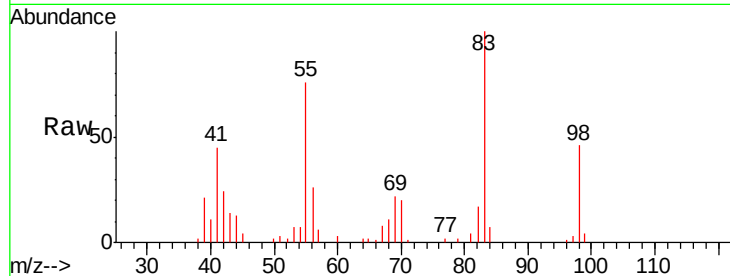




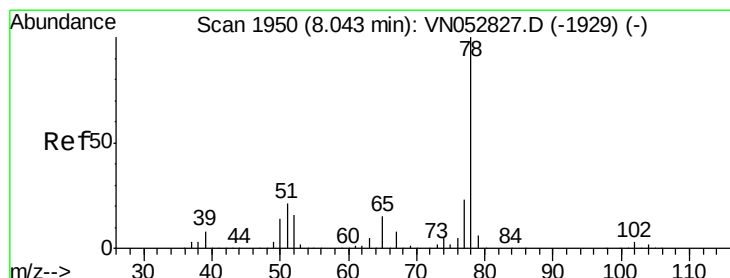
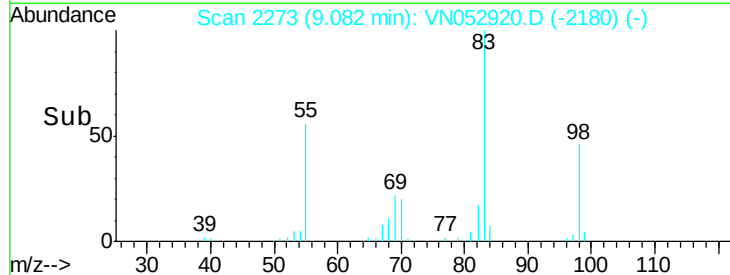
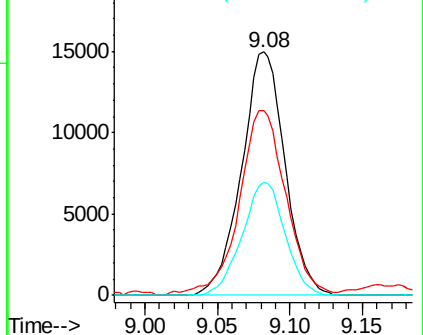
#39  
Methylcyclohexane  
Concen: 1.312 ug/l  
RT: 9.08 min Scan# 2273  
Delta R.T. -0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

Instrument :  
MSVOA\_N  
ClientSampled :  
23574

Tgt Ion: 83 Resp: 31155  
Ion Ratio Lower Upper  
83 100  
55 74.7 61.3 91.9  
98 46.3 37.0 55.4

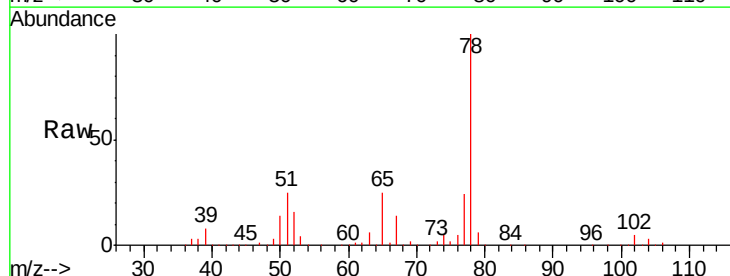


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

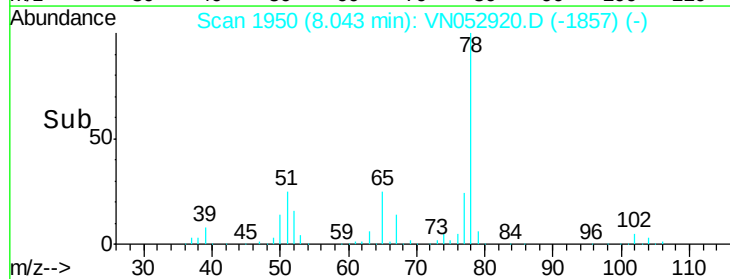
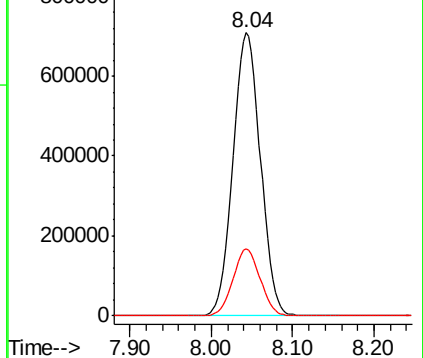


#40  
Benzene  
Concen: 28.633 ug/l  
RT: 8.04 min Scan# 1950  
Delta R.T. -0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

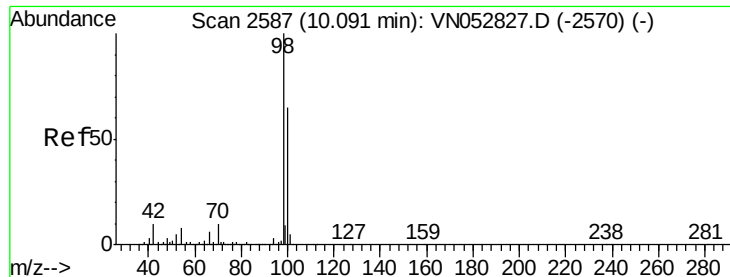
Tgt Ion: 78 Resp: 1662992  
Ion Ratio Lower Upper  
78 100  
77 23.7 18.5 27.7



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







#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052920.D

Acq: 17 Dec 2018 12:04

Instrument :

MSVOA\_N

ClientSampleId :

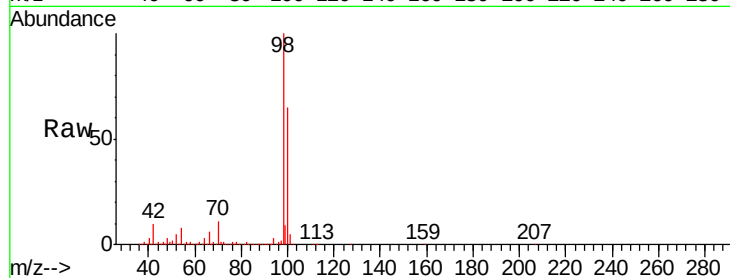
23574

Tgt Ion: 98 Resp: 2555821

Ion Ratio Lower Upper

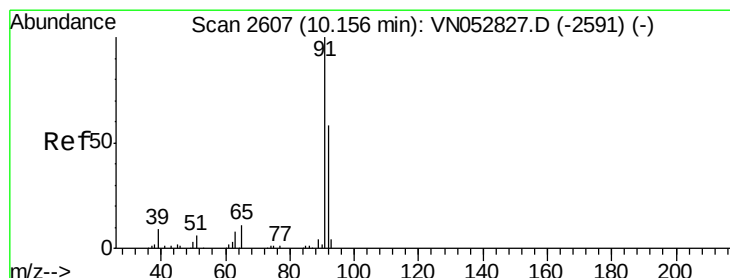
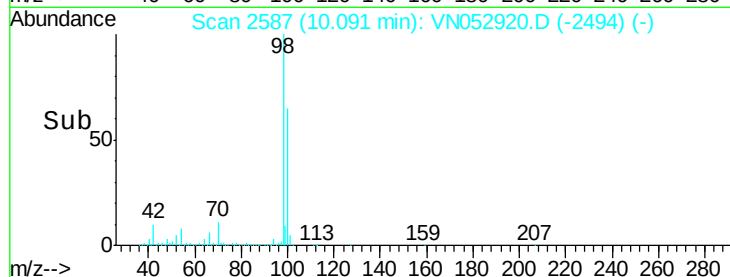
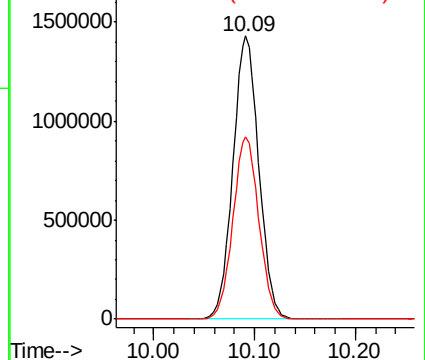
98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#52

Toluene

Concen: 119.010 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052920.D

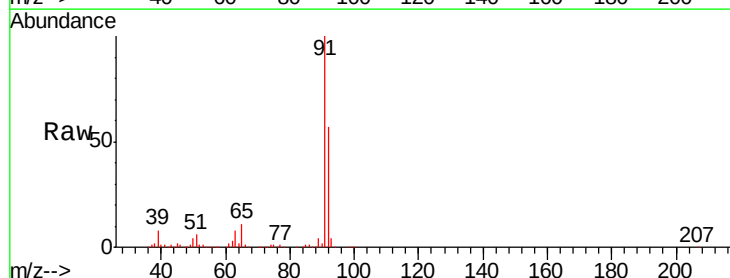
Acq: 17 Dec 2018 12:04

Tgt Ion: 92 Resp: 4186320

Ion Ratio Lower Upper

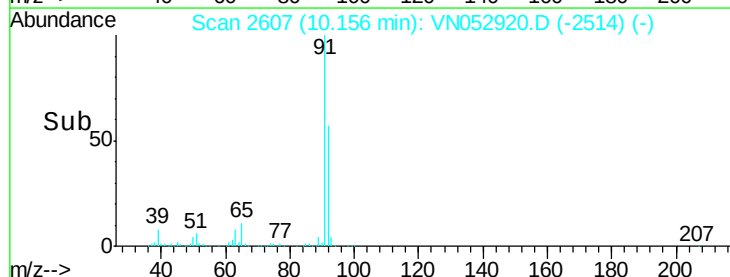
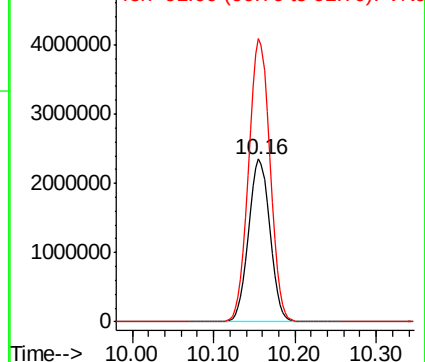
92 100

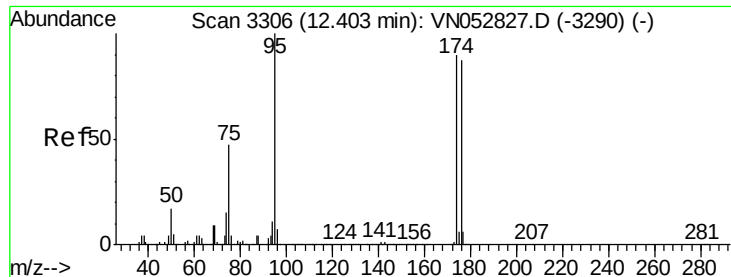
91 174.4 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN052920.D

Acq: 17 Dec 2018 12:04

Instrument :

MSVOA\_N

ClientSampleId :

23574

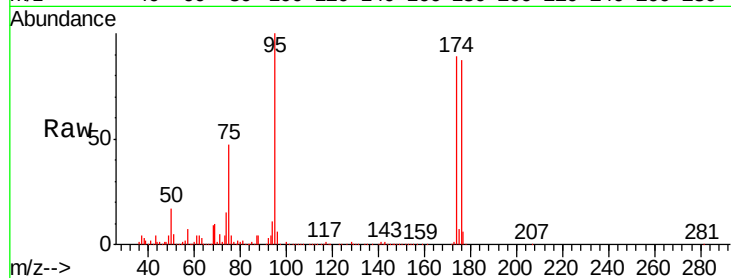
Tgt Ion: 95 Resp: 851850

Ion Ratio Lower Upper

95 100

174 88.4 0.0 178.8

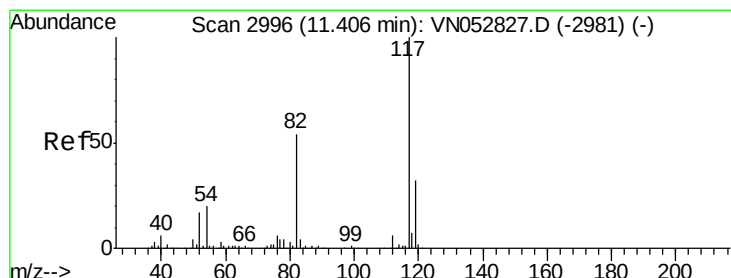
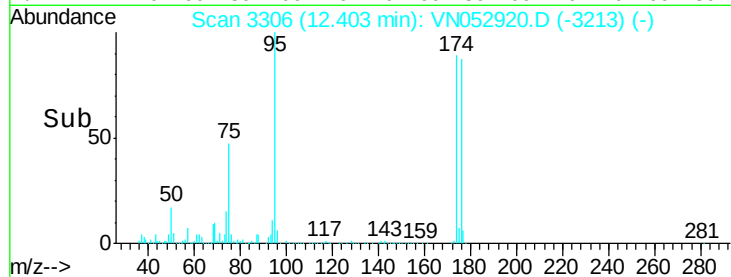
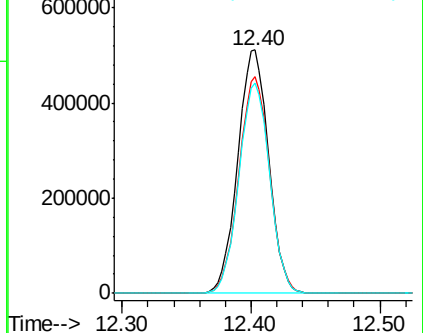
176 86.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052920.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN052920.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN052920.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052920.D

Acq: 17 Dec 2018 12:04

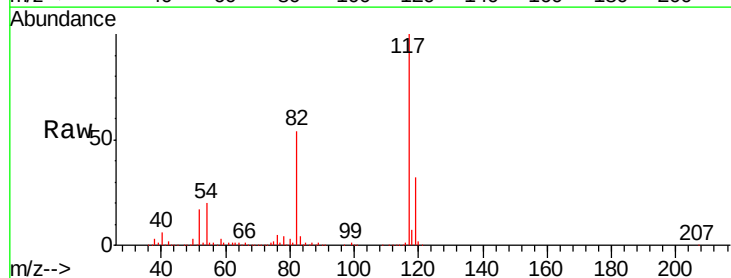
Tgt Ion: 117 Resp: 1866692

Ion Ratio Lower Upper

117 100

82 54.1 42.8 64.2

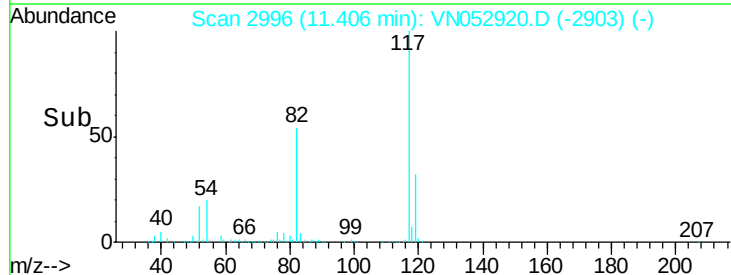
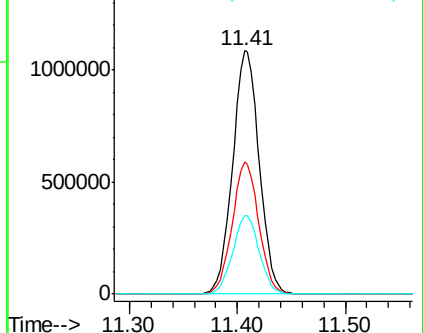
119 32.4 25.5 38.3

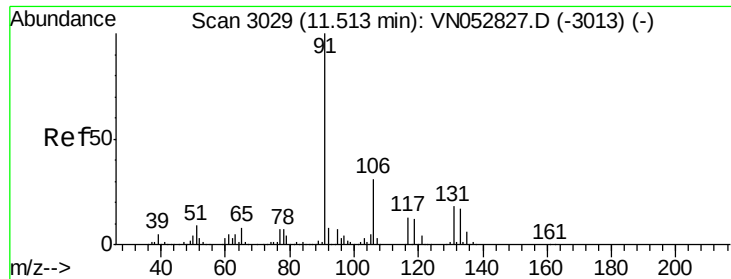


Abundance Ion 116.90 (116.60 to 117.60): VN052920.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052920.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052920.D (-2903) (-)

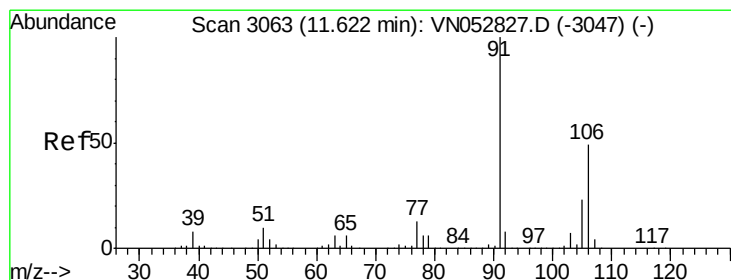
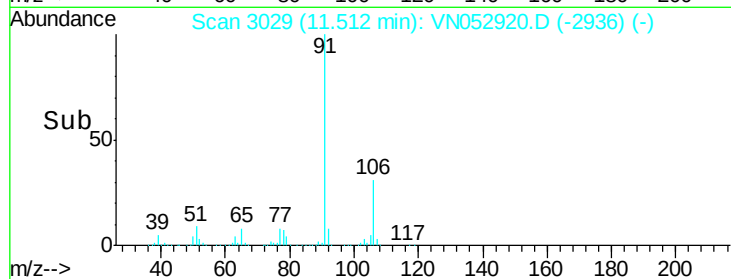
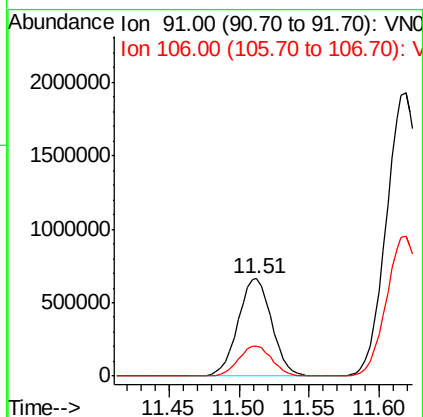
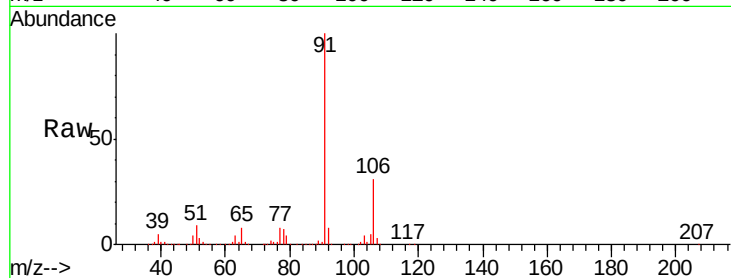




#67  
Ethyl Benzene  
Concen: 16.631 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. -0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

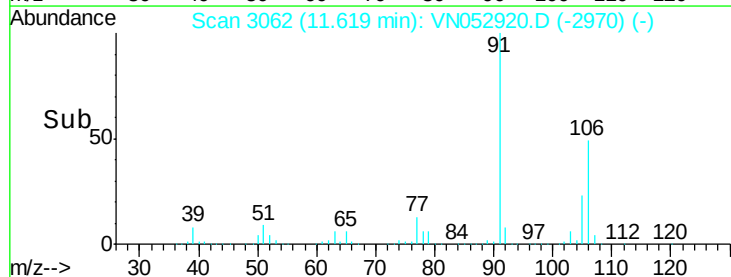
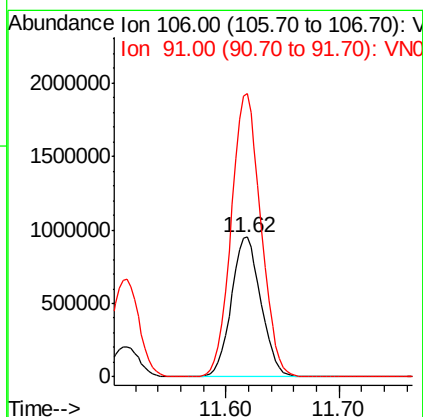
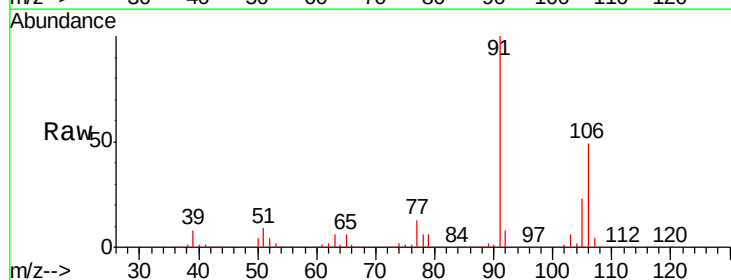
Instrument :  
MSVOA\_N  
ClientSampled :  
23574

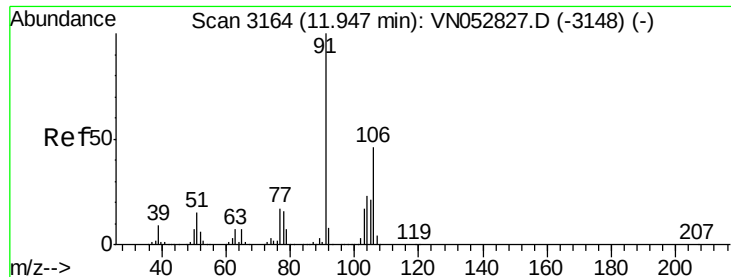
Tgt Ion: 91 Resp: 1106084  
Ion Ratio Lower Upper  
91 100  
106 30.8 24.9 37.3



#68  
m/p-Xylenes  
Concen: 69.119 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

Tgt Ion: 106 Resp: 1726075  
Ion Ratio Lower Upper  
106 100  
91 203.3 162.2 243.4

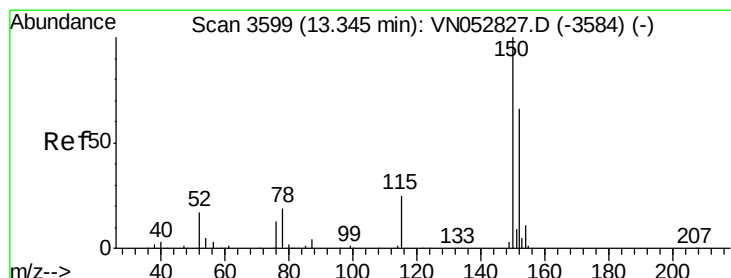
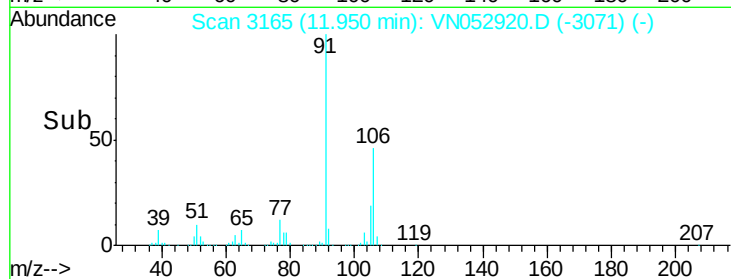
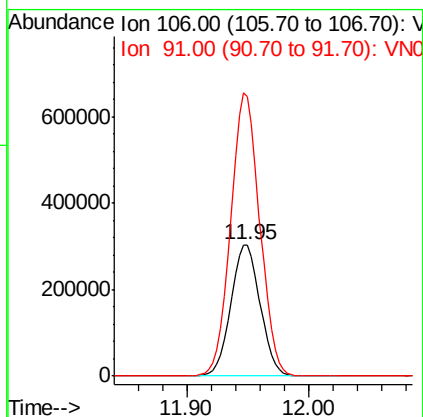
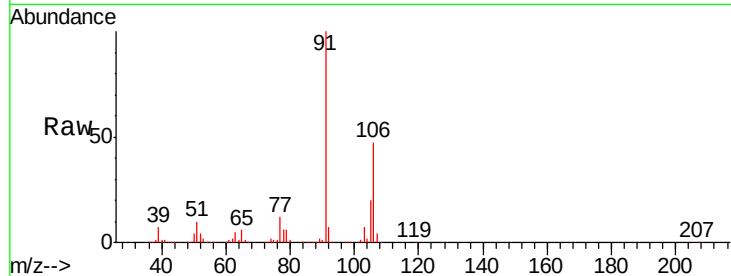




#69  
o-Xylene  
Concen: 20.763 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

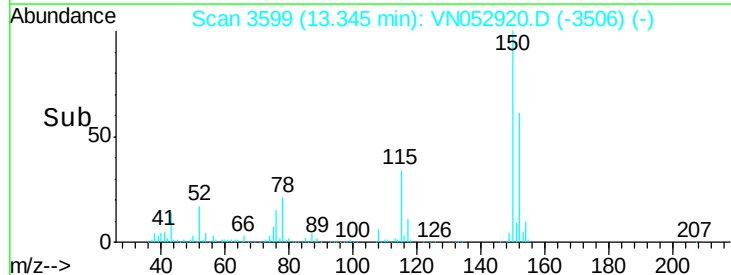
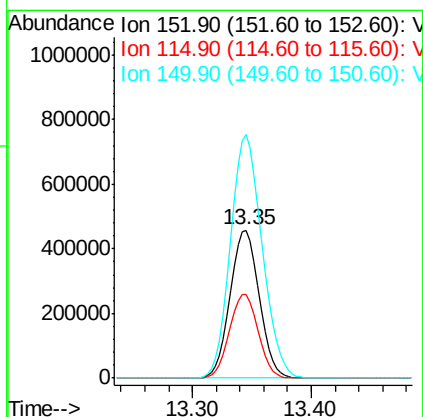
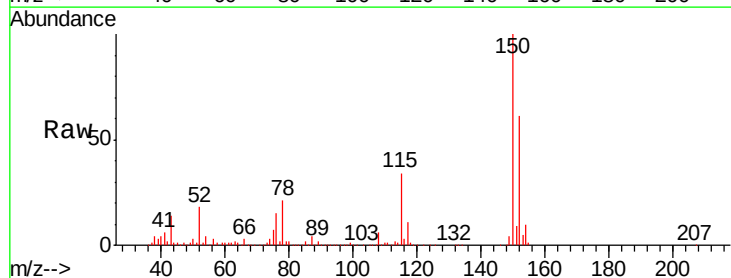
Instrument :  
MSVOA\_N  
ClientSampled :  
23574

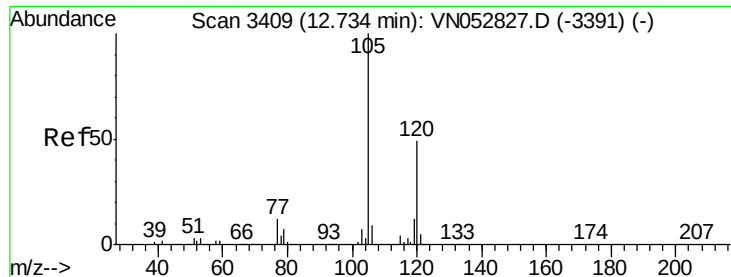
Tgt Ion:106 Resp: 506300  
Ion Ratio Lower Upper  
106 100  
91 213.9 106.6 319.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. -0.00 min  
Lab File: VN052920.D  
Acq: 17 Dec 2018 12:04

Tgt Ion:152 Resp: 775941  
Ion Ratio Lower Upper  
152 100  
115 56.0 28.3 85.0  
150 178.8 0.0 347.8

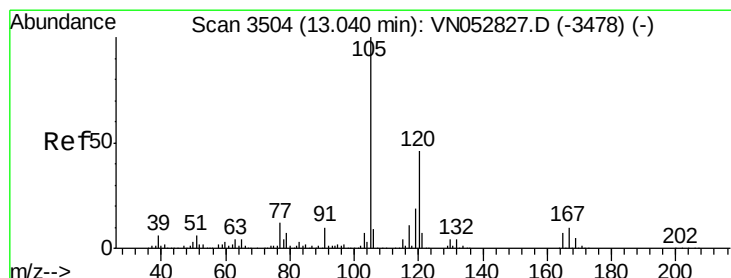
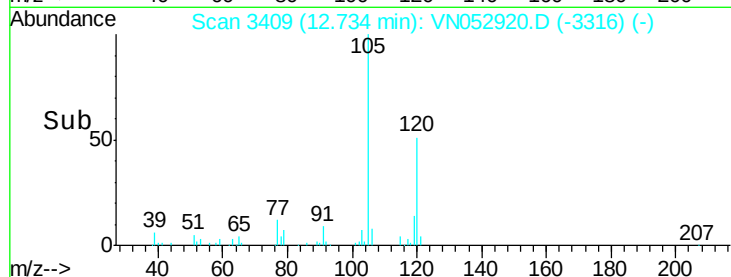
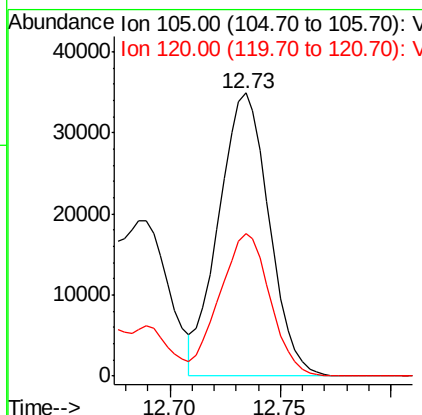
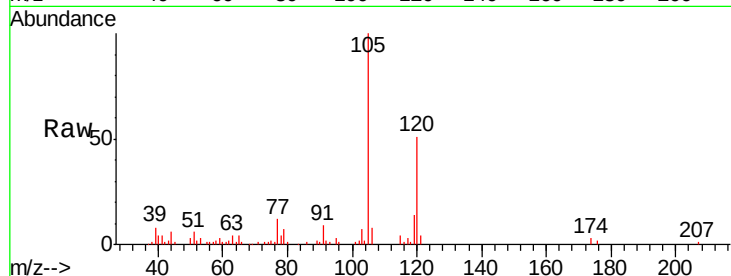




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.183 ug/l  
 RT: 12.73 min Scan# 3409  
 Delta R.T. -0.00 min  
 Lab File: VN052920.D  
 Acq: 17 Dec 2018 12:04

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 23574

Tgt Ion:105 Resp: 55341  
 Ion Ratio Lower Upper  
 105 100  
 120 50.5 24.4 73.2



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.967 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.00 min  
 Lab File: VN052920.D  
 Acq: 17 Dec 2018 12:04

Tgt Ion:105 Resp: 93143  
 Ion Ratio Lower Upper  
 105 100  
 120 43.8 22.9 68.8

