

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050820\  
 Data File : VN061371.D  
 Acq On : 8 May 2020 18:51  
 Operator : JC/MD  
 Sample : PB128729ZHE#07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 09 00:48:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 05 07:01:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 95011    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 179340   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 176413   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 75323    | 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   | 82048    | 54.58  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.16% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 46630    | 43.97  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 87.94%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 229344   | 53.05  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.10% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 84779    | 52.11  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.22% |          |

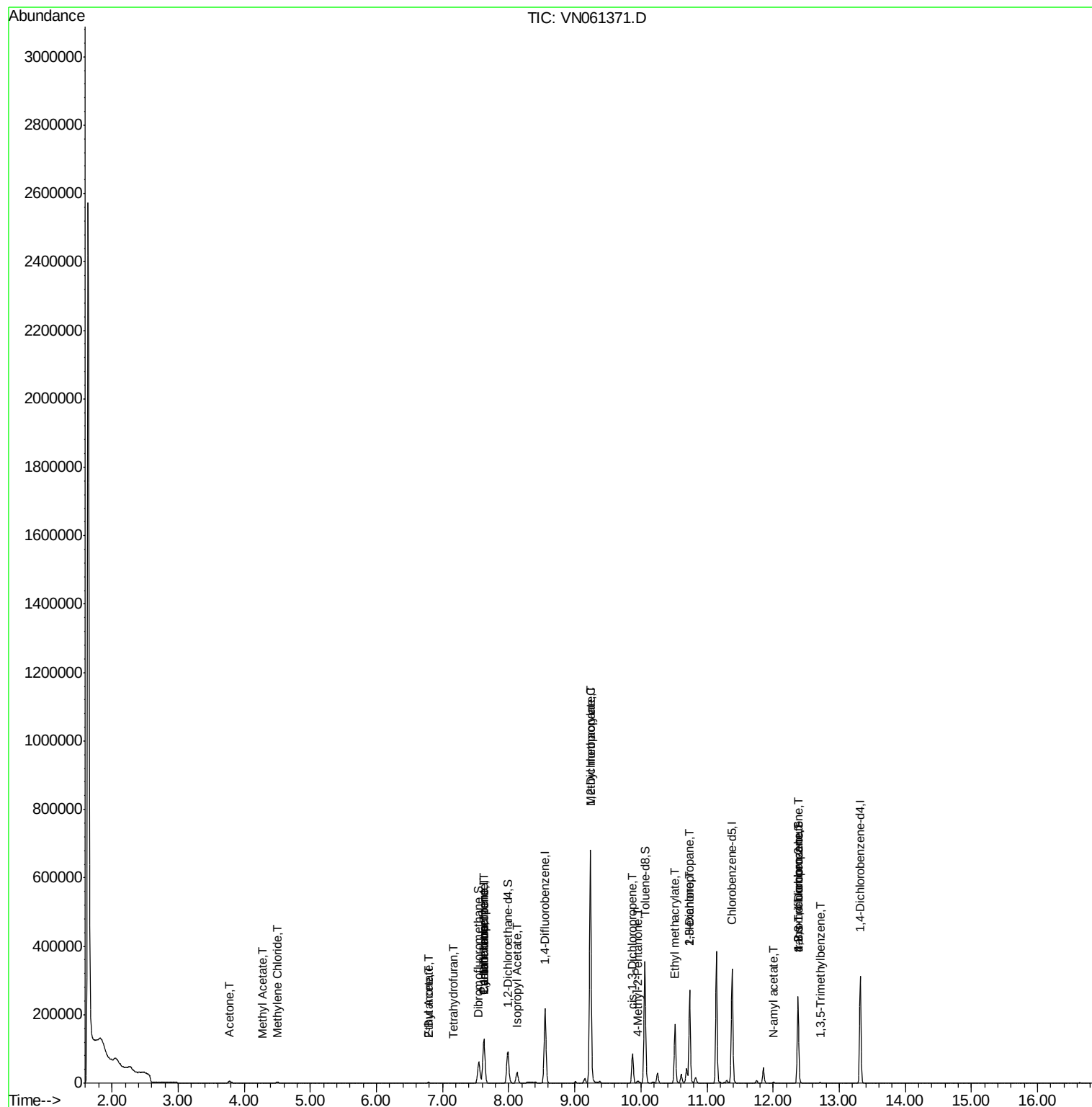
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.77  | 43   | 10084    | 12.086 | ug/l   | 99     |
| 18) Methyl Acetate             | 4.28  | 43   | 1256     | 1.332  | ug/l # | 55     |
| 20) Methylene Chloride         | 4.50  | 84   | 1824     | 1.556  | ug/l # | 80     |
| 25) 2-Butanone                 | 6.79  | 43   | 1910     | 2.147  | ug/l # | 90     |
| 29) Tetrahydrofuran            | 7.16  | 42   | 122      | 0.204  | ug/l # | 37     |
| 31) Cyclohexane                | 7.63  | 56   | 2599     | 1.188  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 8451     | 4.707  | ug/l # | 50     |
| 37) Ethyl Acetate              | 6.79  | 43   | 1910     | 0.908  | ug/l # | 71     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 10301    | 8.288  | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.13  | 43   | 37935    | 10.861 | ug/l # | 89     |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 691      | 0.484  | ug/l # | 44     |
| 48) Methyl methacrylate        | 9.24  | 41   | 66287    | 42.055 | ug/l # | 48     |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 4038     | 1.964  | ug/l   | 99     |
| 54) cis-1,3-Dichloropropene    | 9.88  | 75   | 14077    | 6.223  | ug/l # | 64     |
| 56) Ethyl methacrylate         | 10.52 | 69   | 565      | 2.966  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.74 | 76   | 2390     | 1.058  | ug/l # | 43     |
| 59) 2-Hexanone                 | 10.74 | 43   | 41776    | 27.929 | ug/l # | 54     |
| 74) N-amyl acetate             | 12.00 | 43   | 1901     | 0.678  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 46304    | 29.158 | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 1432     | 0.312  | ug/l   | 97     |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 46304    | 74.047 | ug/l # | 8      |

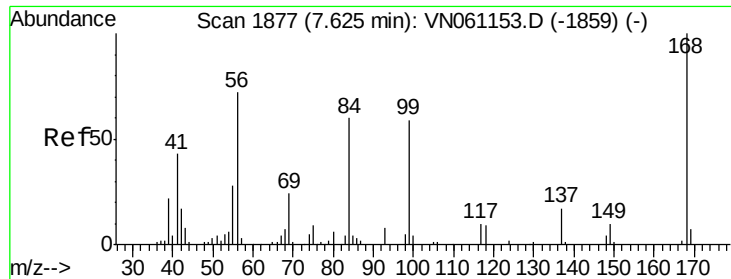
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN050820\  
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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: May 09 00:48:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 05 07:01:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061371.D

Acq: 8 May 2020 18:51

Instrument :

MSVOA\_N

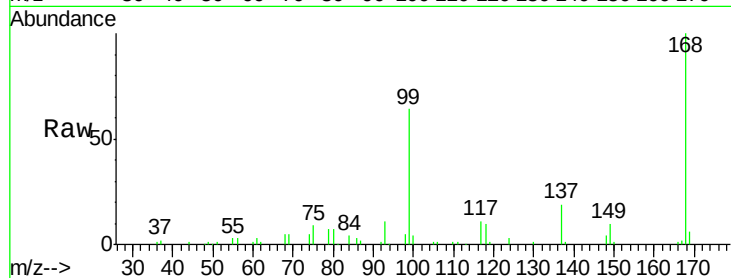
ClientSampled :

Tot Ion:168 Resp: 95011

Ion Ratio Lower Upper

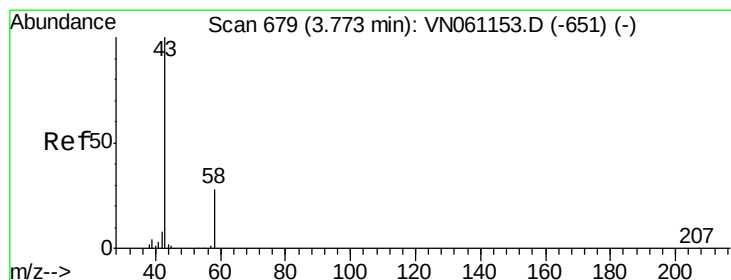
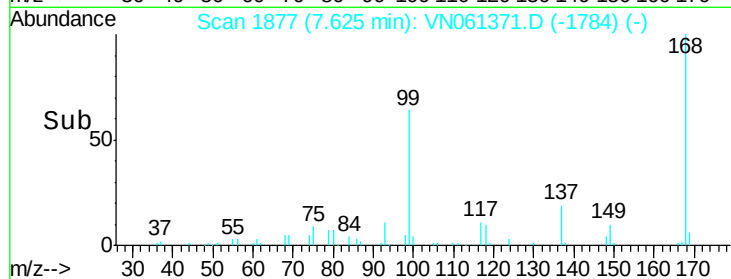
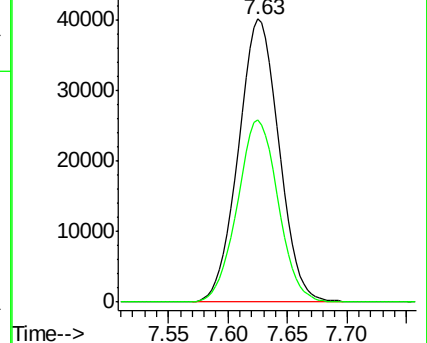
168 100

99 64.4 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 12.086 ug/l

RT: 3.77 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN061371.D

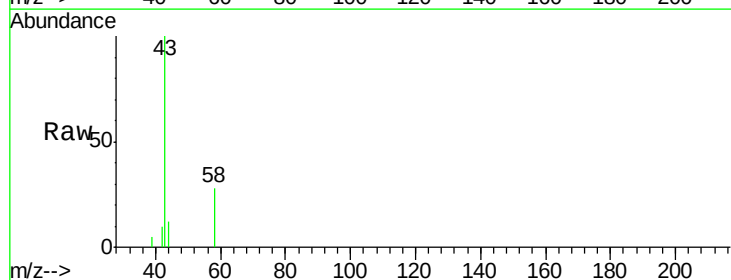
Acq: 8 May 2020 18:51

Tgt Ion: 43 Resp: 10084

Ion Ratio Lower Upper

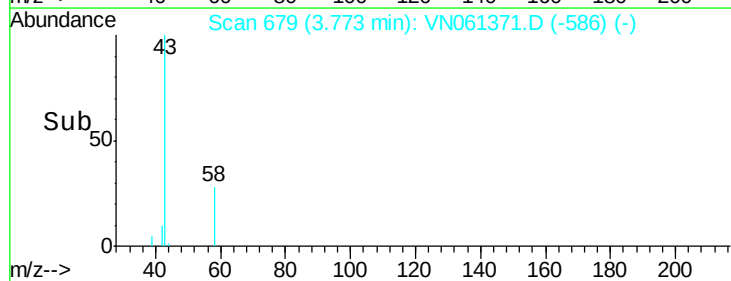
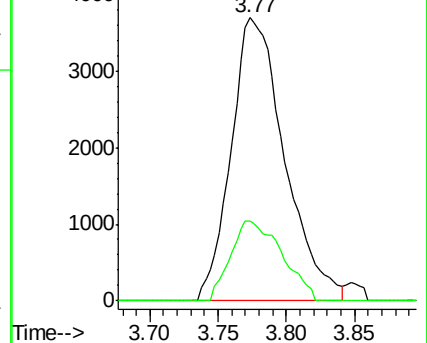
43 100

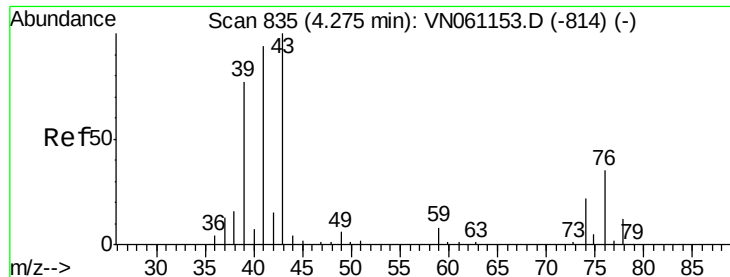
58 28.2 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

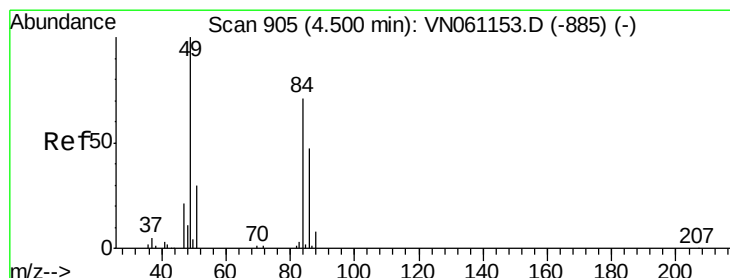
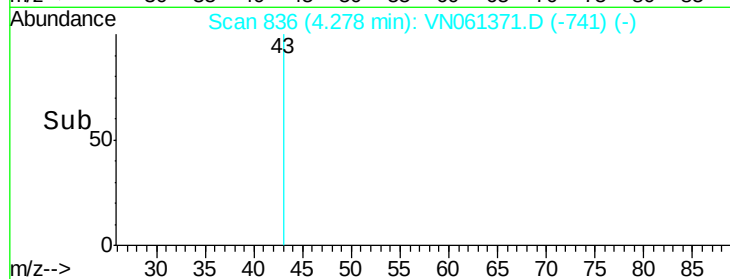
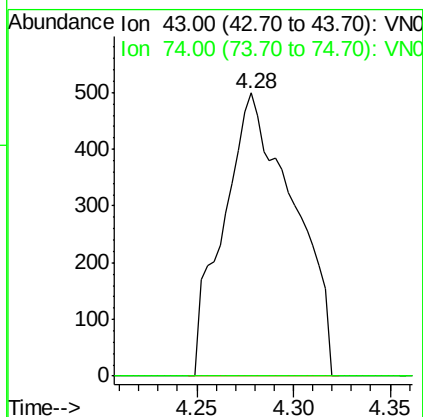
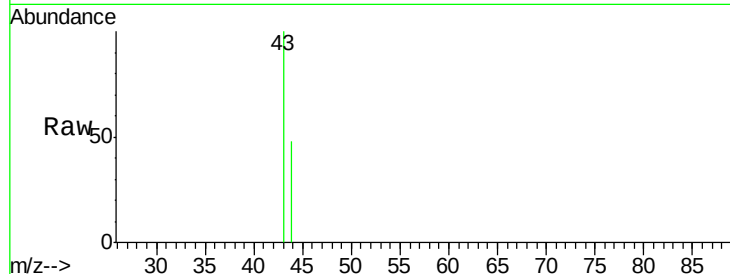




#18  
Methvl Acetate  
Concen: 1.332 ug/l  
RT: 4.28 min Scan# 836  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

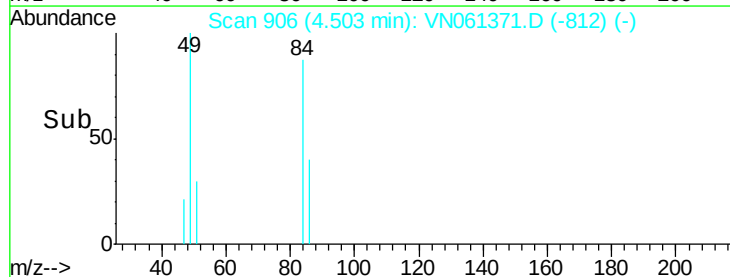
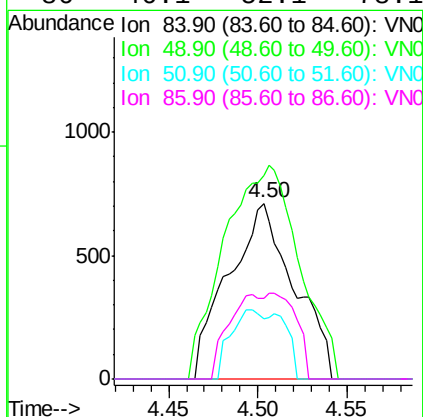
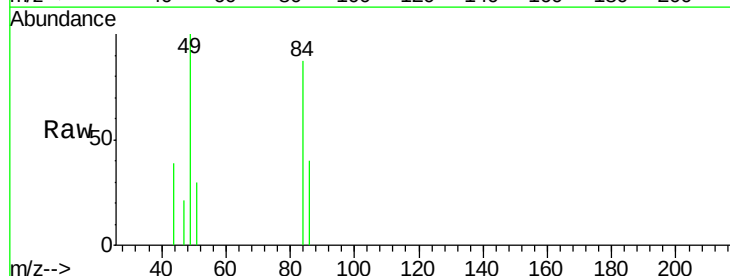
Instrument :  
MSVOA\_N  
ClientSampled :

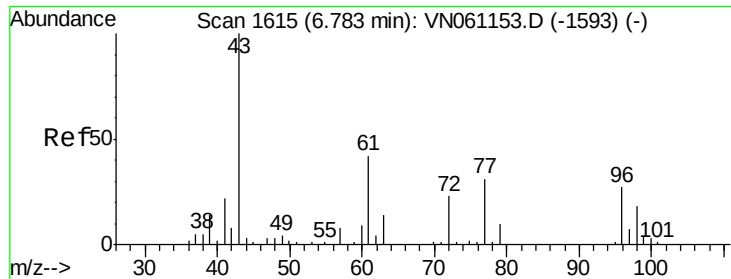
Tot Ion: 43 Resp: 1256  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.0 25.4#



#20  
Methylene Chloride  
Concen: 1.556 ug/l  
RT: 4.50 min Scan# 906  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

Tgt Ion: 84 Resp: 1824  
Ion Ratio Lower Upper  
84 100  
49 115.4 112.0 168.0  
51 34.6 33.6 50.4  
86 46.1 52.1 78.1#





#25

2-Butanone

Concen: 2.147 ug/l

RT: 6.79 min Scan# 1618

Delta R.T. 0.01 min

Lab File: VN061371.D

Acq: 8 May 2020 18:51

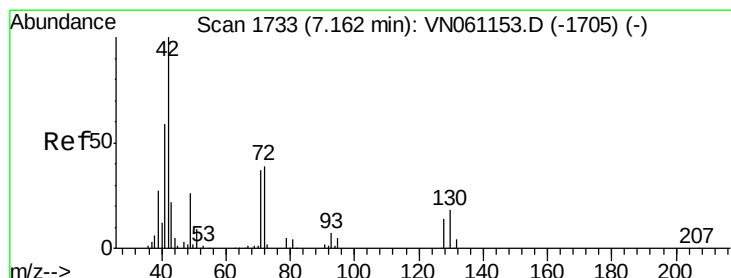
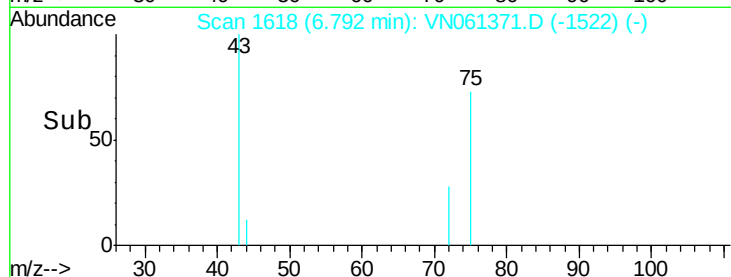
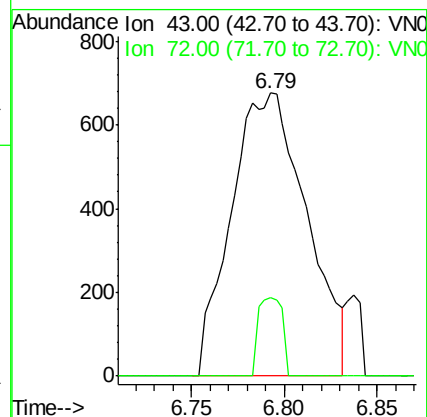
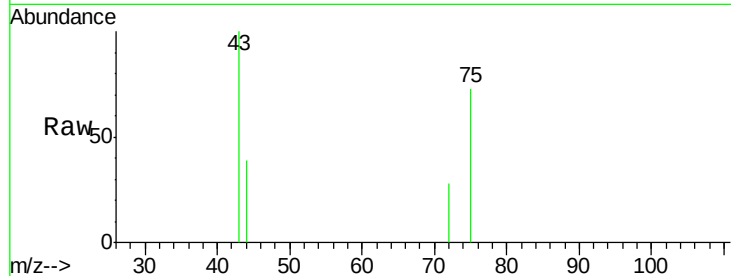
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 43 Resp: 1910

Ion Ratio Lower Upper

43 100

72 27.7 18.2 27.4#



#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 7.16 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VN061371.D

Acq: 8 May 2020 18:51

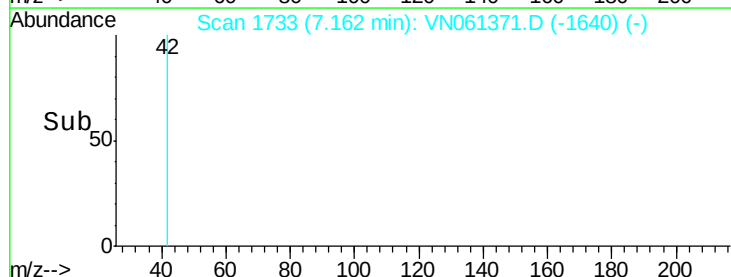
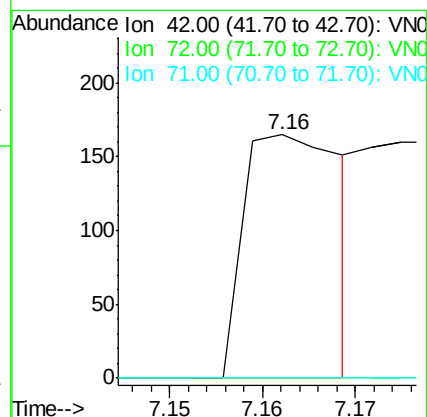
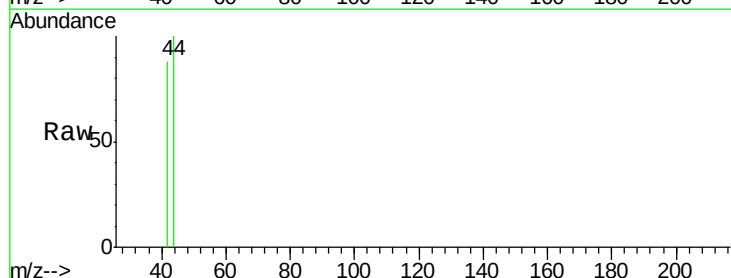
Tgt Ion: 42 Resp: 122

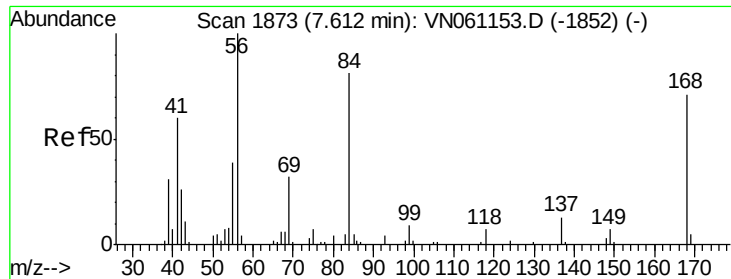
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 29.5 44.3#

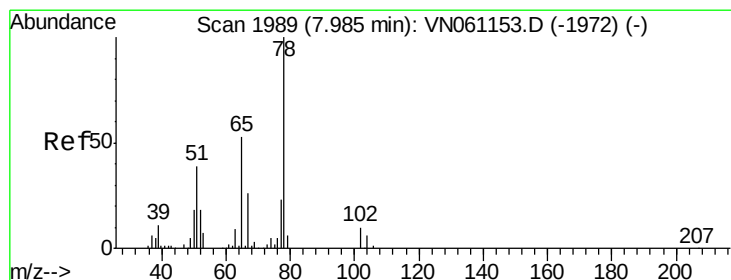
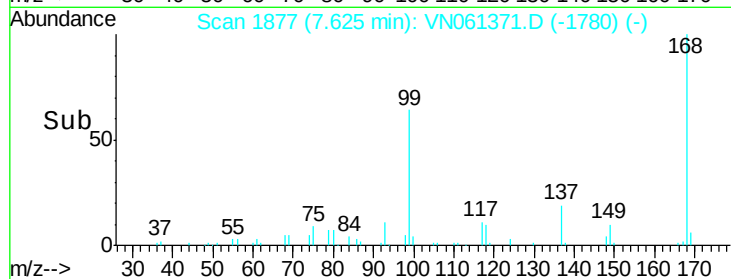
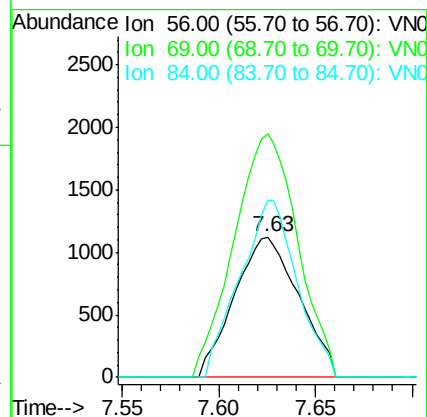
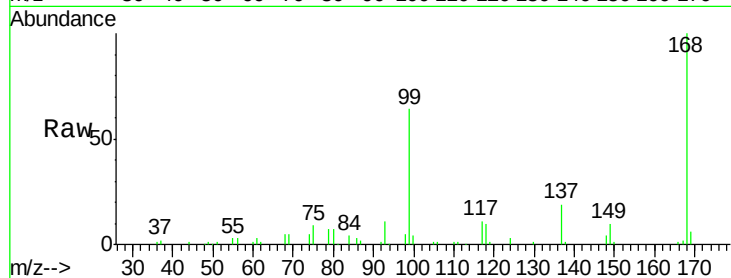




#31  
Cyclohexane  
Concen: 1.188 ug/l  
RT: 7.63 min Scan# 1877  
Delta R.T. 0.01 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

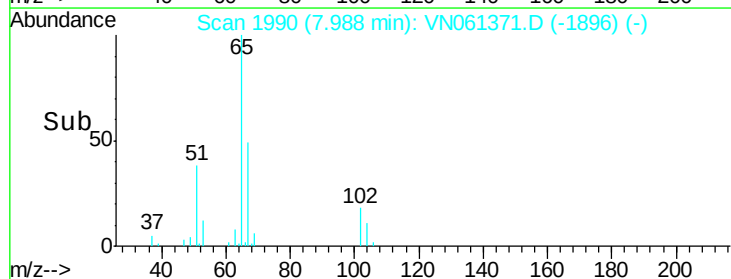
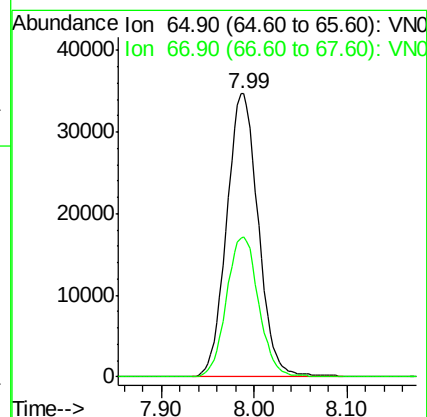
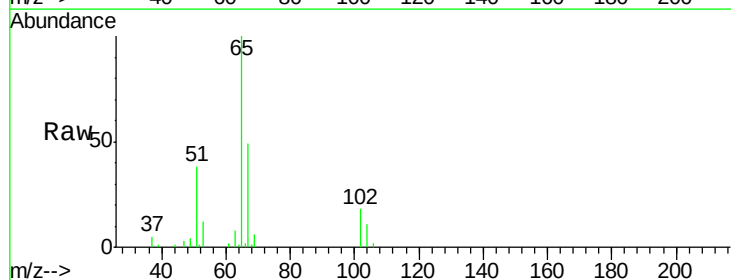
Instrument :  
MSVOA\_N  
ClientSampled :

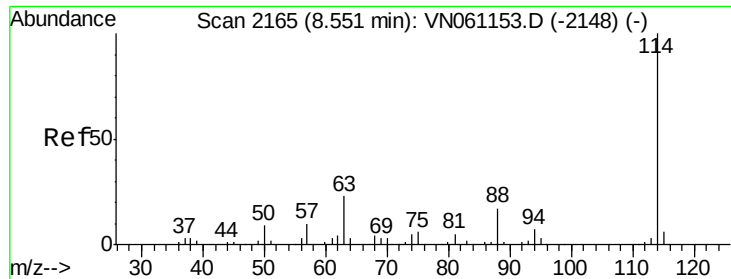
Tot Ion: 56 Resp: 2599  
Ion Ratio Lower Upper  
56 100  
69 173.7 25.7 38.5#  
84 126.4 64.6 97.0#



#33  
1,2-Dichloroethane-d4  
Concen: 54.576 ug/l  
RT: 7.99 min Scan# 1990  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

Tgt Ion: 65 Resp: 82048  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 101.6

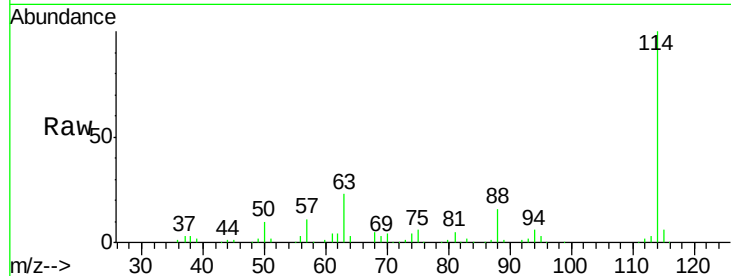




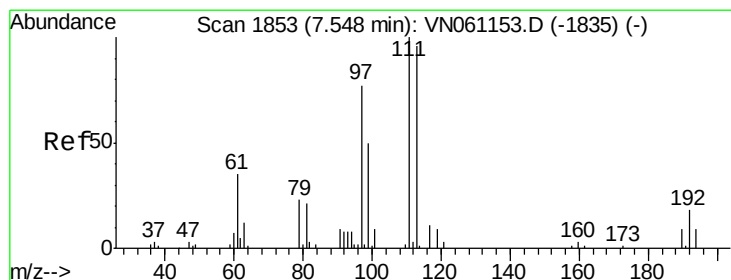
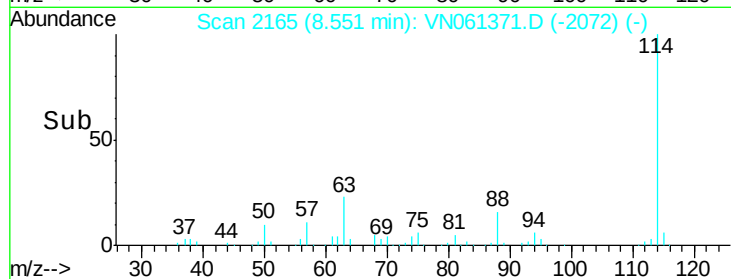
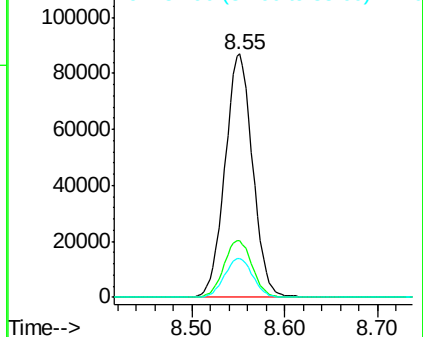
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2165  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:114 Resp: 179340  
Ion Ratio Lower Upper  
114 100  
63 23.2 0.0 46.6  
88 16.1 0.0 33.4

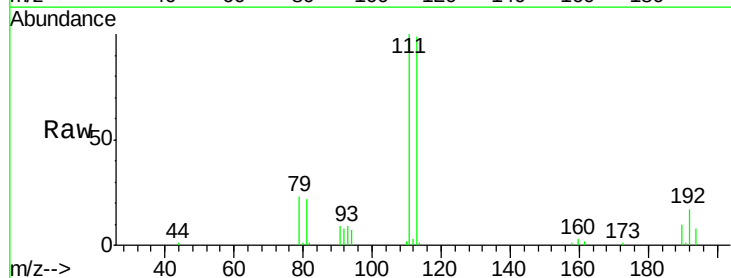


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

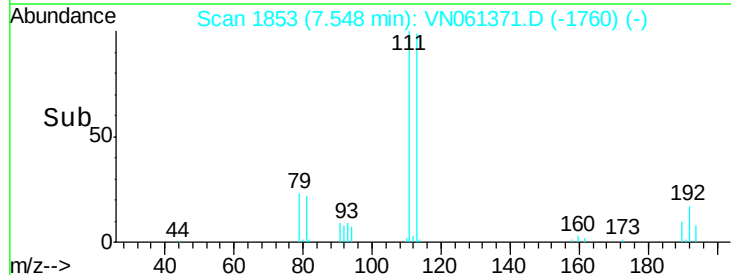
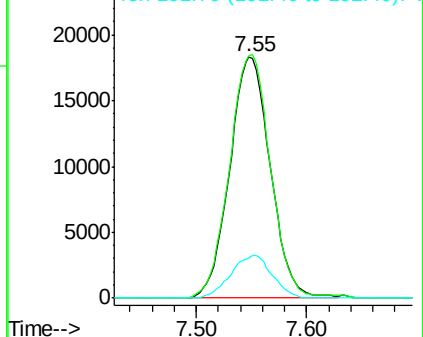


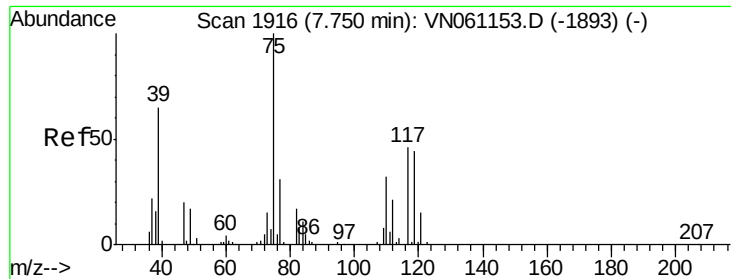
#35  
Dibromofluoromethane  
Concen: 43.971 ug/l  
RT: 7.55 min Scan# 1853  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

Tgt Ion:113 Resp: 46630  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.9 124.3  
192 18.1 14.7 22.1



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

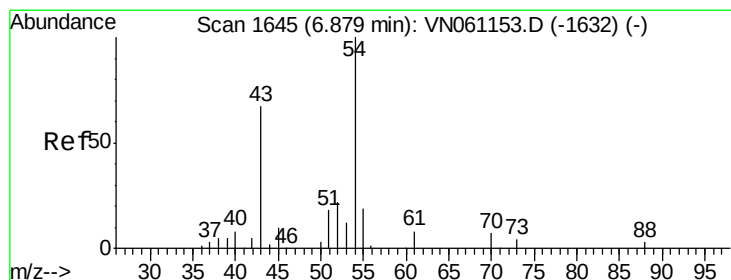
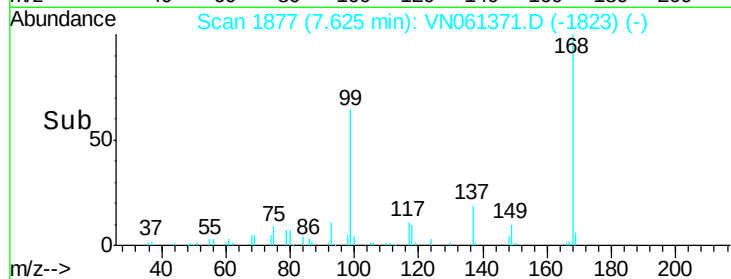
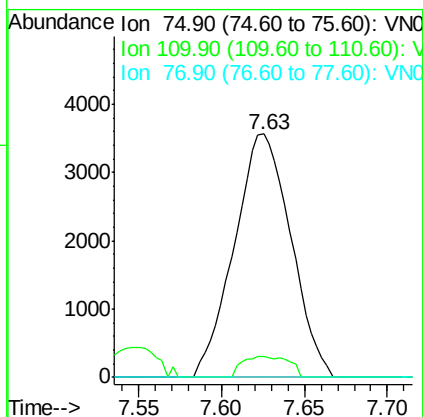
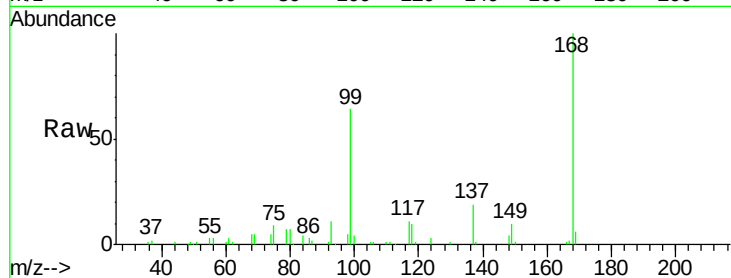




#36  
 1,1-Dichloropropene  
 Concen: 4.707 ug/l  
 RT: 7.63 min Scan# 1877  
 Delta R.T. -0.13 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

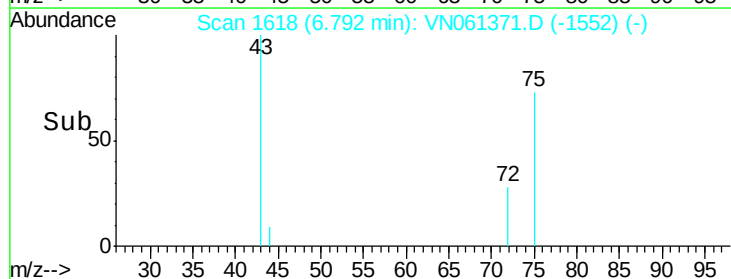
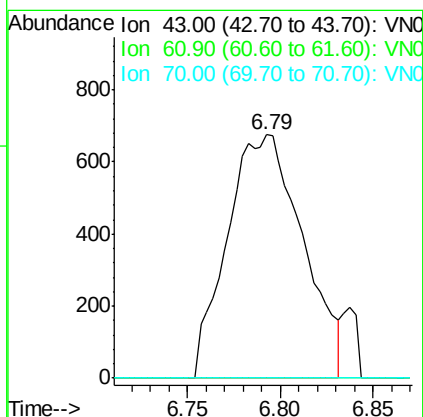
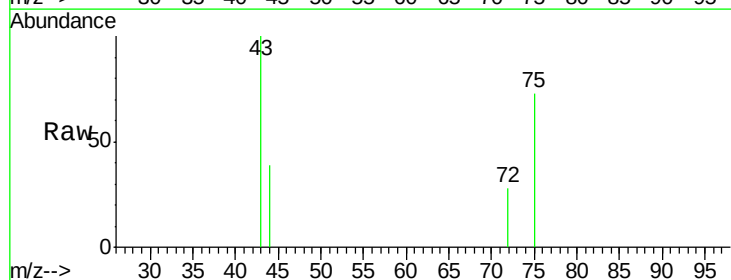
Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 75 Resp: 8451  
 Ion Ratio Lower Upper  
 75 100  
 110 7.0 16.0 48.0#  
 77 0.0 24.6 37.0#

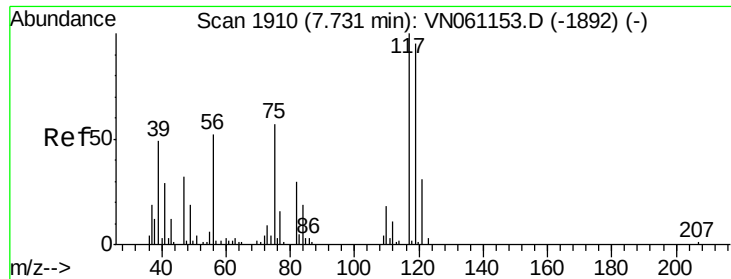


#37  
 Ethyl Acetate  
 Concen: 0.908 ug/l  
 RT: 6.79 min Scan# 1618  
 Delta R.T. -0.09 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

Tgt Ion: 43 Resp: 1910  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 10.2 15.2#  
 70 0.0 7.2 10.8#



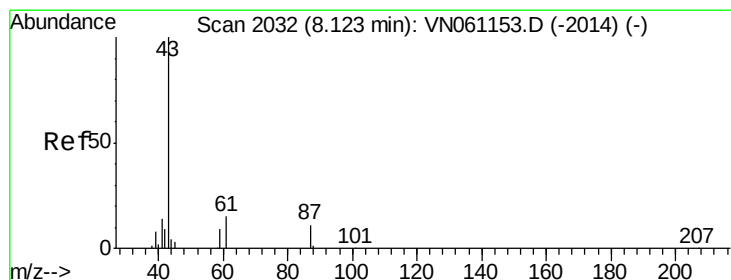
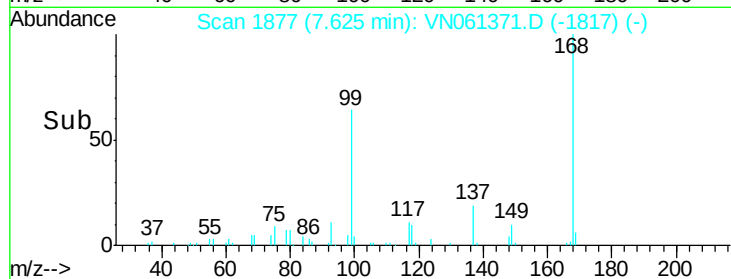
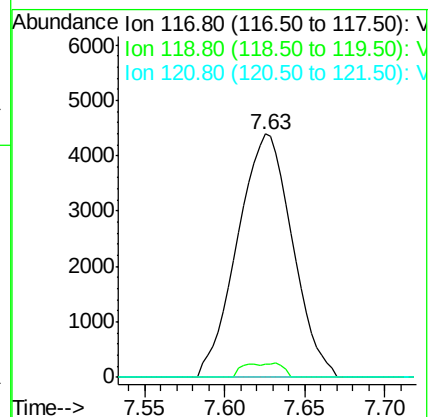
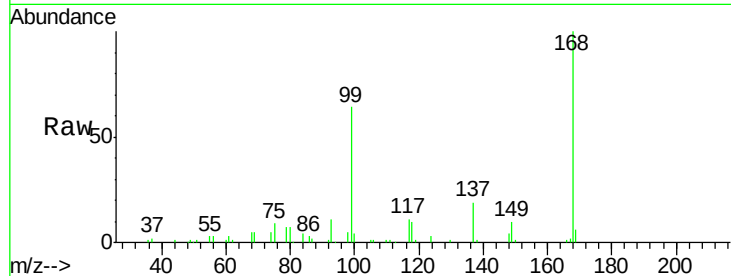




#38  
Carbon Tetrachloride  
Concen: 8.288 ug/l  
RT: 7.63 min Scan# 1877  
Delta R.T. -0.11 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

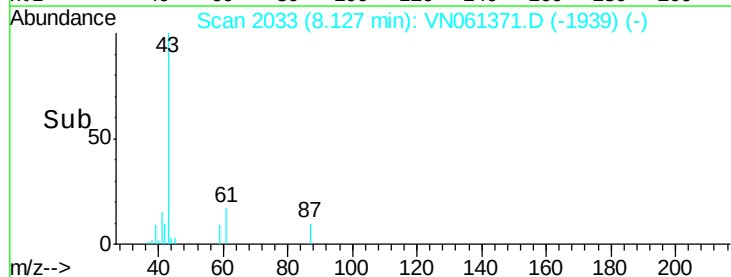
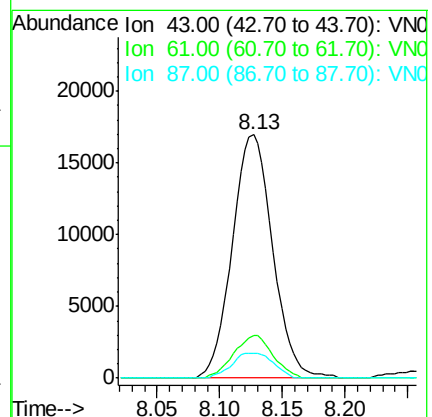
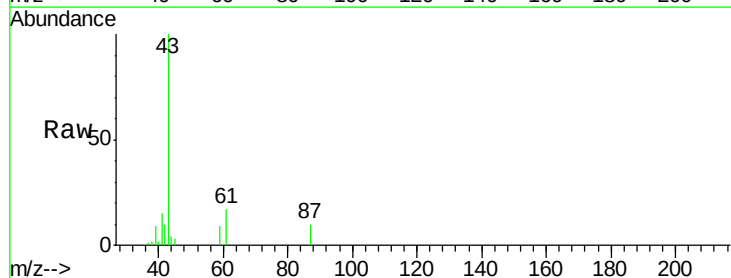
Instrument :  
MSVOA\_N  
ClientSampled :

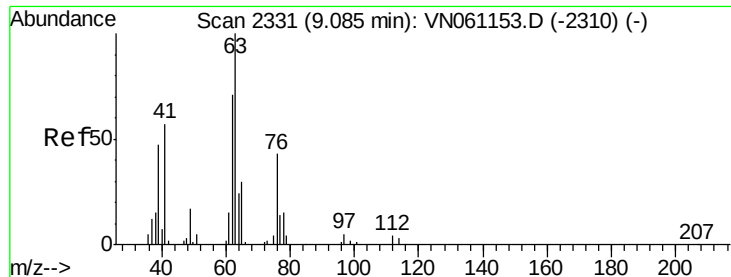
Tot Ion:117 Resp: 10301  
Ion Ratio Lower Upper  
117 100  
119 5.2 75.8 113.6#  
121 0.0 24.7 37.1#



#43  
Isopropyl Acetate  
Concen: 10.861 ug/l  
RT: 8.13 min Scan# 2033  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

Tgt Ion: 43 Resp: 37935  
Ion Ratio Lower Upper  
43 100  
61 17.0 19.5 29.3#  
87 10.4 8.9 13.3

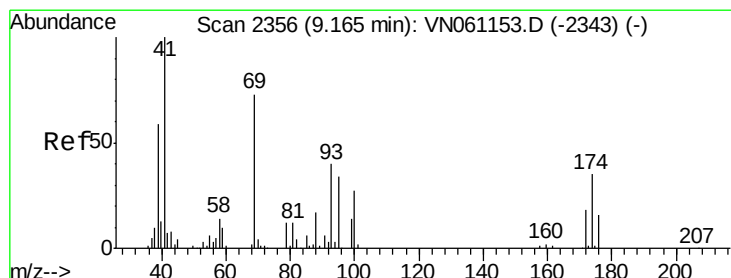
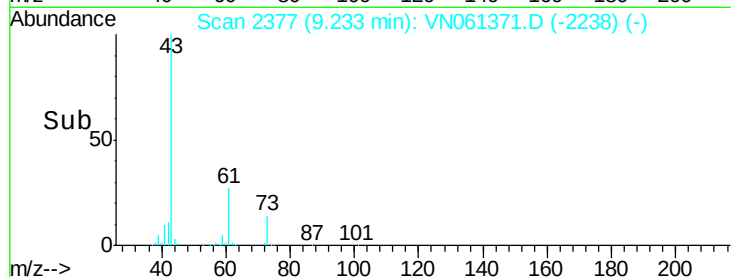
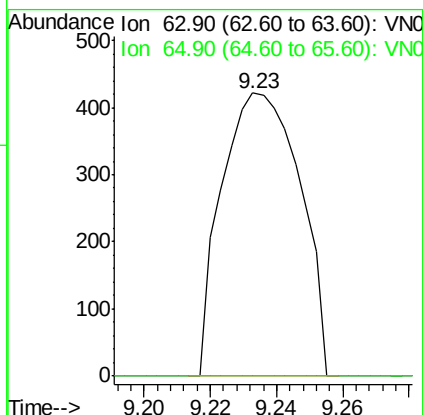
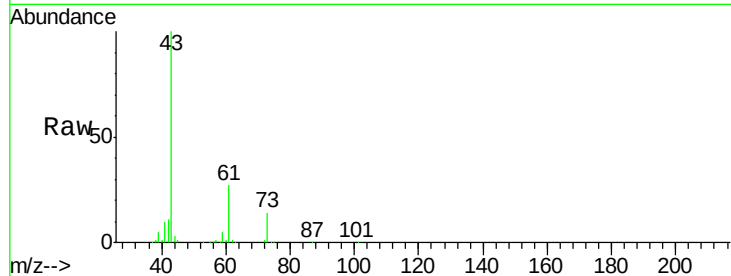




#45  
 1,2-Dichloropropane  
 Concen: 0.484 ug/l  
 RT: 9.23 min Scan# 2377  
 Delta R.T. 0.15 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

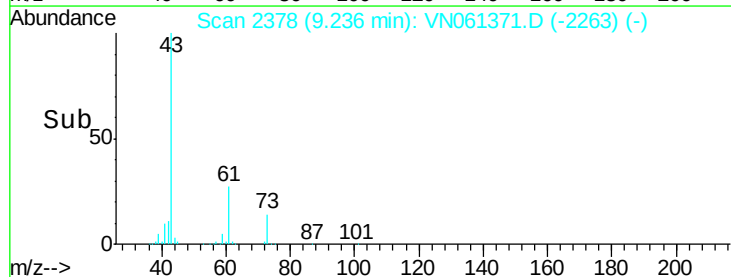
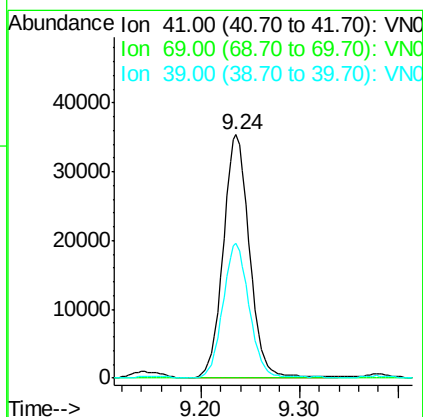
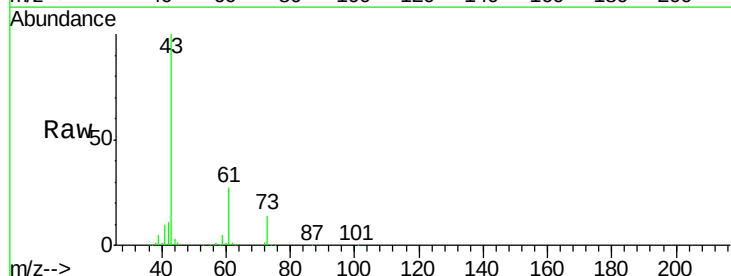
Instrument :  
 MSVOA\_N  
 ClientSampleId :

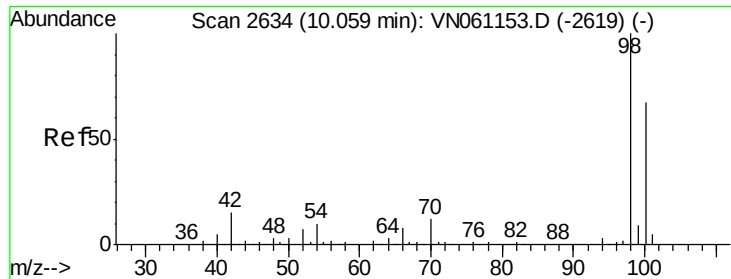
Tot Ion: 63 Resp: 691  
 Ion Ratio Lower Upper  
 63 100  
 65 0.0 24.7 37.1#



#48  
 Methyl methacrylate  
 Concen: 42.055 ug/l  
 RT: 9.24 min Scan# 2378  
 Delta R.T. 0.07 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

Tgt Ion: 41 Resp: 66287  
 Ion Ratio Lower Upper  
 41 100  
 69 0.0 60.3 90.5#  
 39 55.0 47.4 71.0

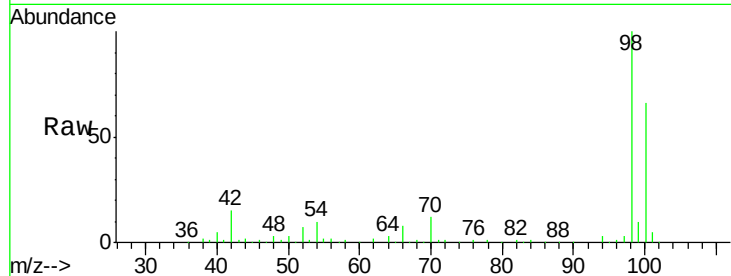




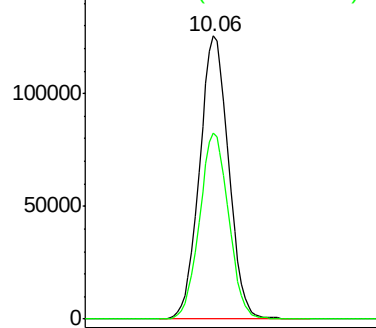
#50  
Toluene-d8  
Concen: 53.051 ug/l  
RT: 10.06 min Scan# 2634  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

Instrument :  
MSVOA\_N  
ClientSampled :

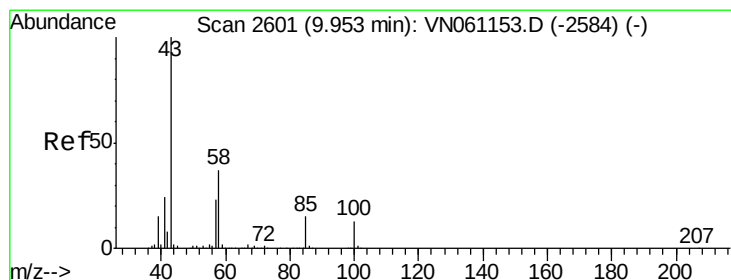
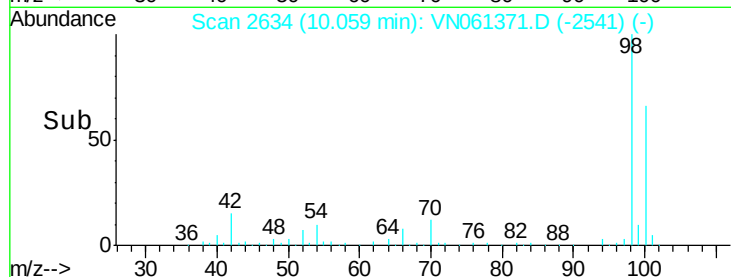
Tot Ion: 98 Resp: 229344  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN061153.D (-2619) (-)  
Ion 100.00 (99.70 to 100.70): VN061153.D (-2619) (-)

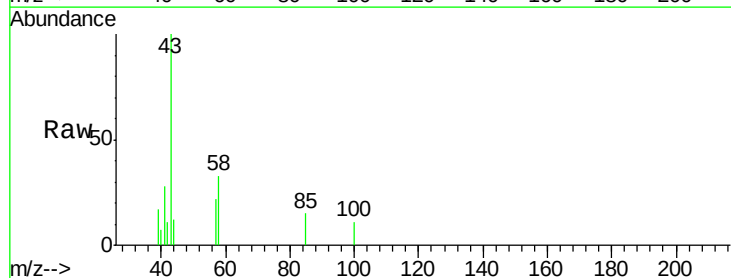


Time-->

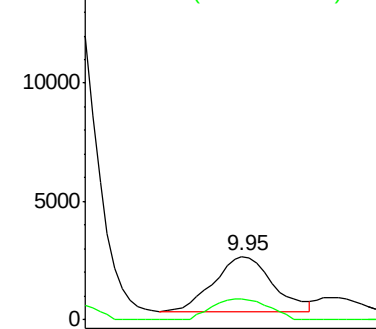


#51  
4-Methyl-2-Pentanone  
Concen: 1.964 ug/l  
RT: 9.95 min Scan# 2601  
Delta R.T. 0.00 min  
Lab File: VN061371.D  
Acq: 8 May 2020 18:51

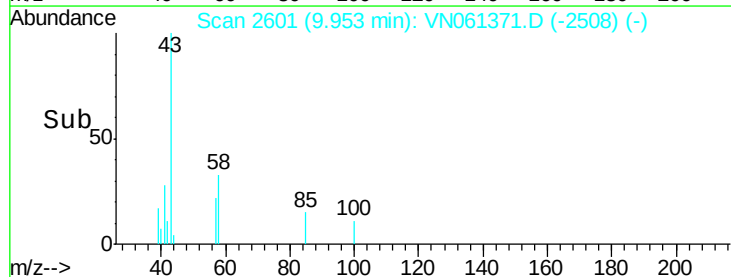
Tgt Ion: 43 Resp: 4038  
Ion Ratio Lower Upper  
43 100  
58 37.1 29.1 43.7

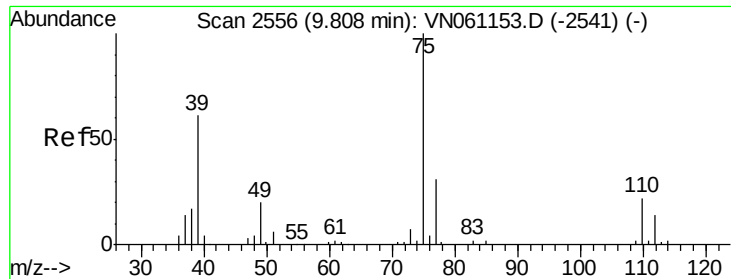


Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2584) (-)  
Ion 58.00 (57.70 to 58.70): VN061153.D (-2584) (-)



Time-->



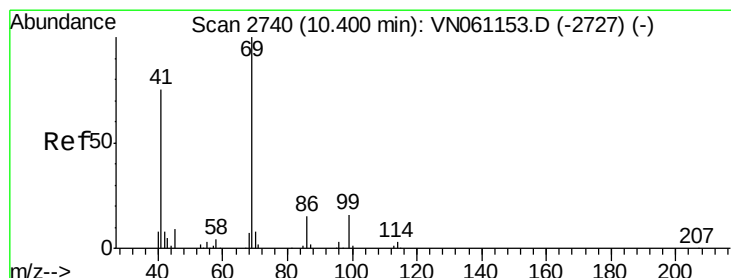
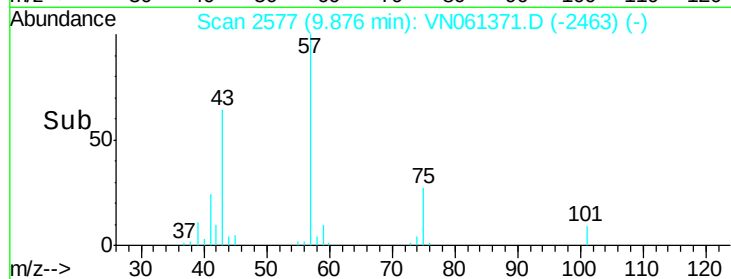
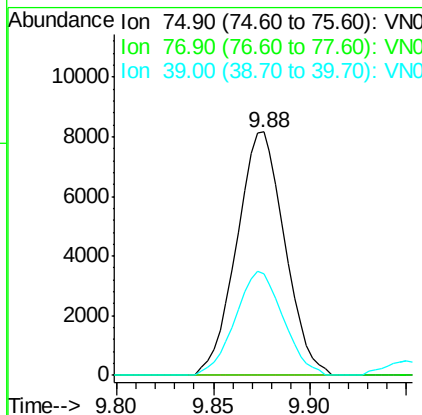
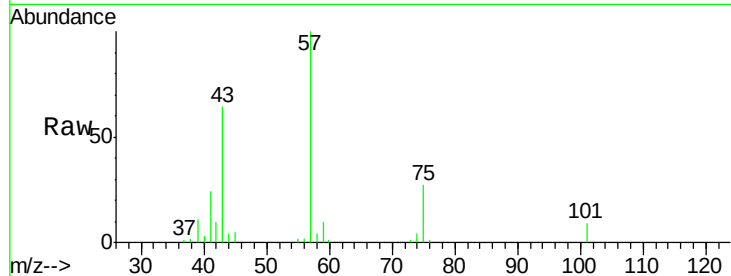


#54

cis-1,3-Dichloropropene  
 Concen: 6.223 ug/l  
 RT: 9.88 min Scan# 2577  
 Delta R.T. 0.07 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :

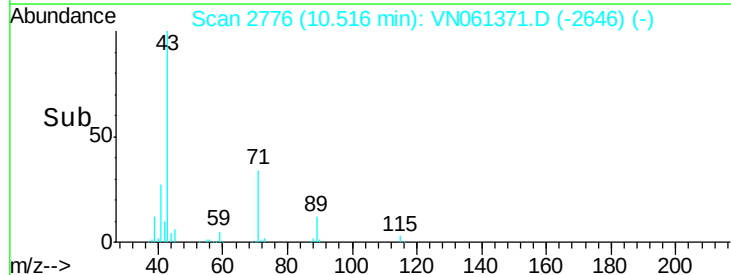
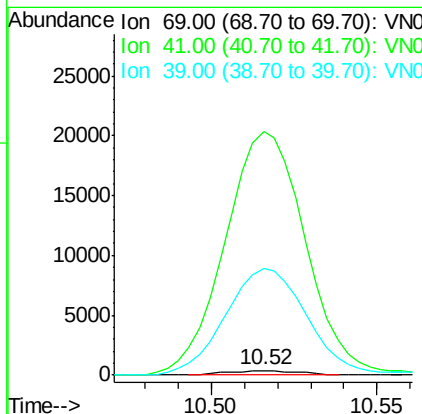
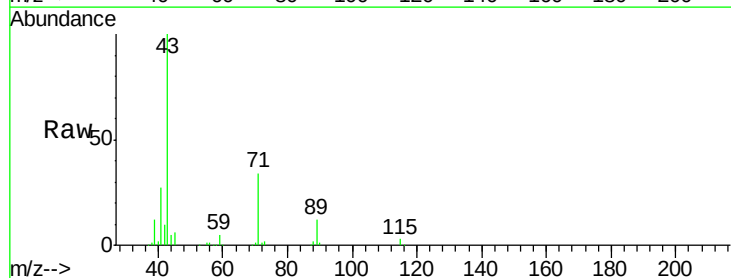
Tot Ion: 75 Resp: 14077  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.0 37.4#  
 39 41.9 48.7 73.1#

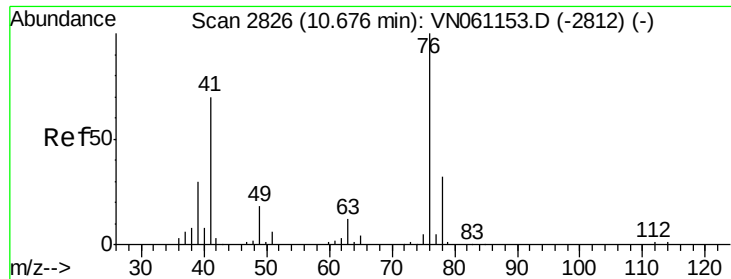


#56

Ethyl methacrylate  
 Concen: 2.966 ug/l  
 RT: 10.52 min Scan# 2776  
 Delta R.T. 0.12 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

Tgt Ion: 69 Resp: 565  
 Ion Ratio Lower Upper  
 69 100  
 41 6114.7 60.3 90.5#  
 39 2762.5 35.9 53.9#

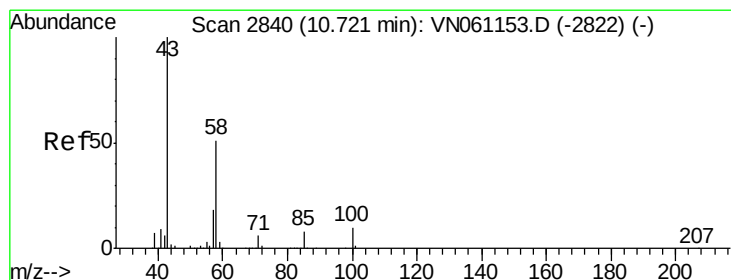
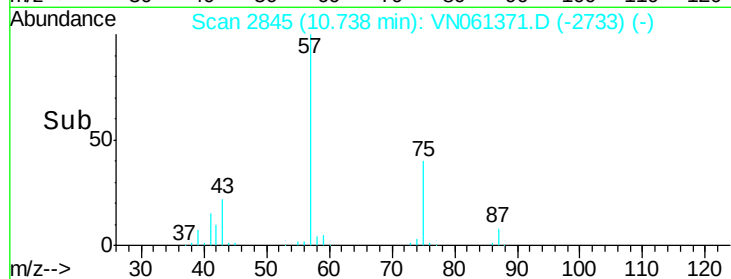
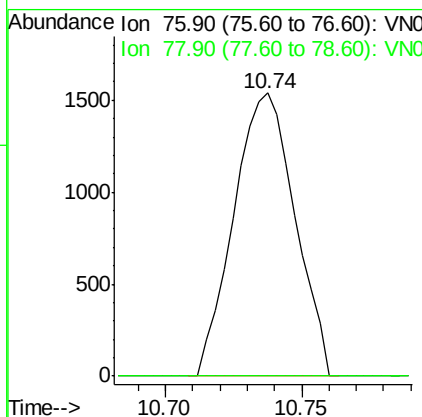
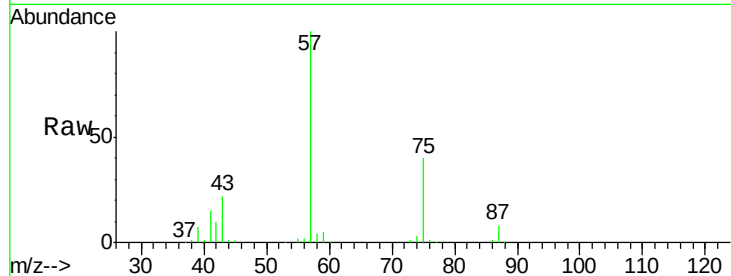




#57  
 1,3-Dichloropropane  
 Concen: 1.058 ug/l  
 RT: 10.74 min Scan# 2845  
 Delta R.T. 0.06 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

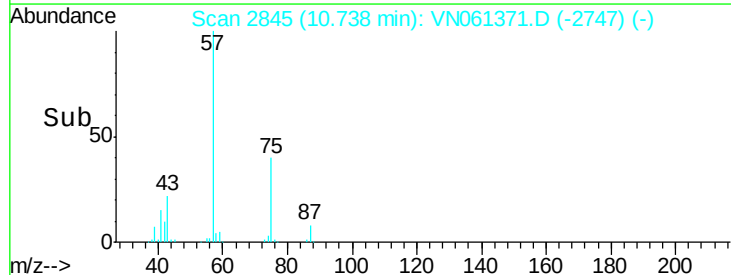
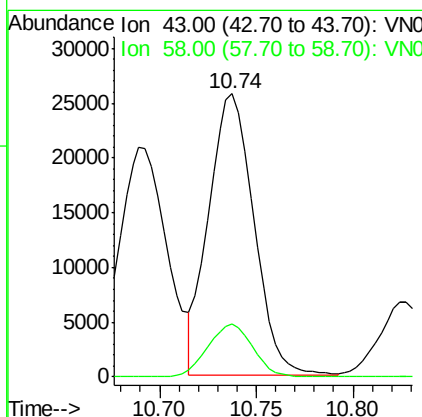
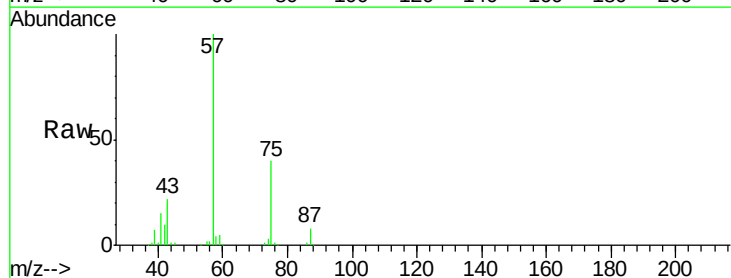
Instrument :  
 MSVOA\_N  
 ClientSampled :

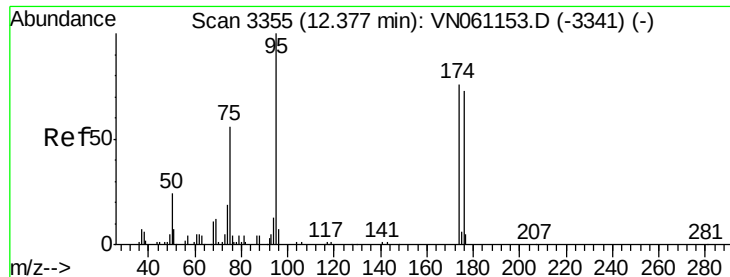
Tot Ion: 76 Resp: 2390  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.5 38.3#



#59  
 2-Hexanone  
 Concen: 27.929 ug/l  
 RT: 10.74 min Scan# 2845  
 Delta R.T. 0.02 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

Tgt Ion: 43 Resp: 41776  
 Ion Ratio Lower Upper  
 43 100  
 58 18.6 25.4 76.4#





#62

4-Bromofluorobenzene

Concen: 52.113 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061371.D

Acq: 8 May 2020 18:51

Instrument :

MSVOA\_N

ClientSampleId :

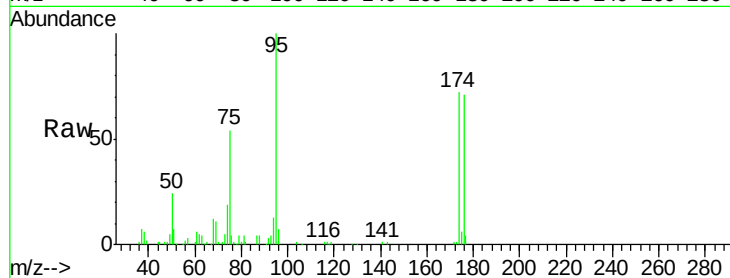
Tot Ion: 95 Resp: 84779

Ion Ratio Lower Upper

95 100

174 72.1 0.0 149.4

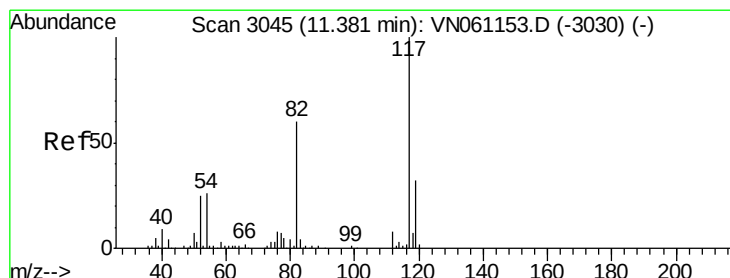
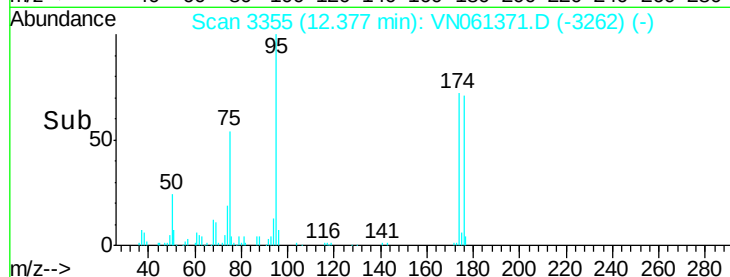
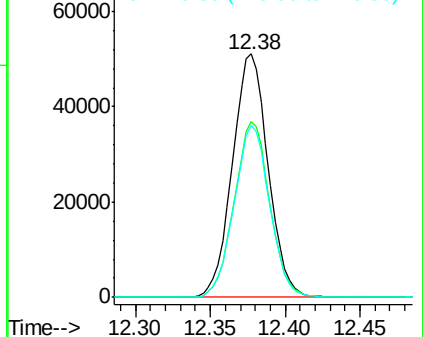
176 70.2 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061371.D

Acq: 8 May 2020 18:51

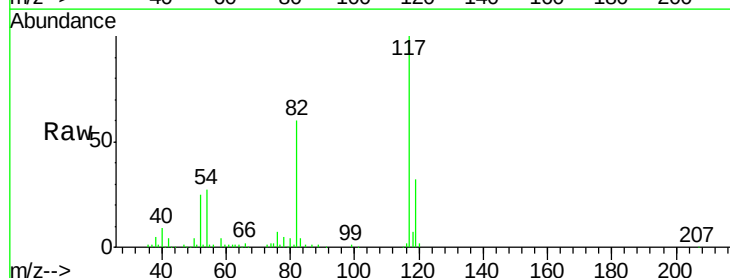
Tgt Ion: 117 Resp: 176413

Ion Ratio Lower Upper

117 100

82 60.1 47.8 71.8

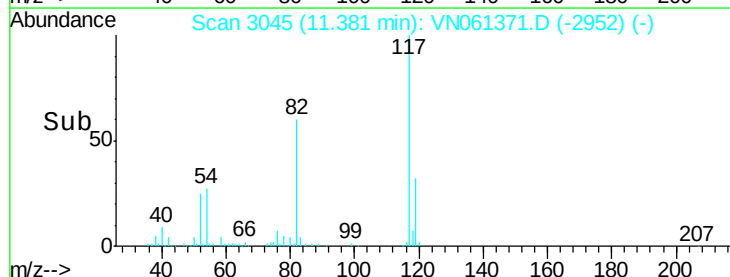
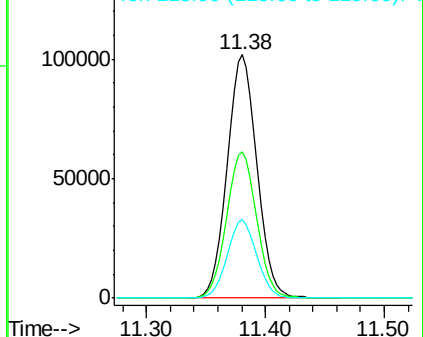
119 32.0 25.8 38.6

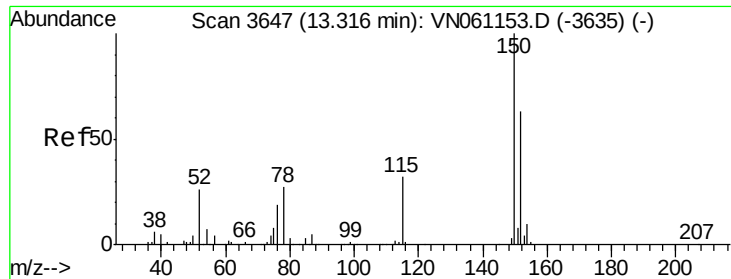


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

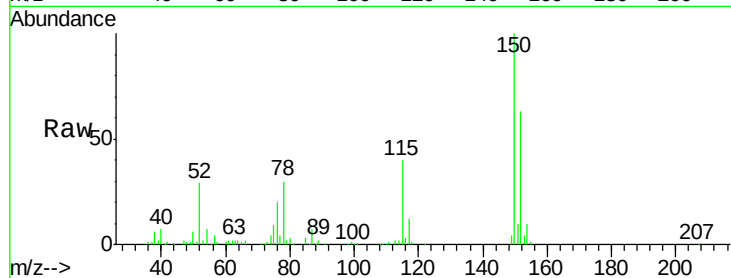




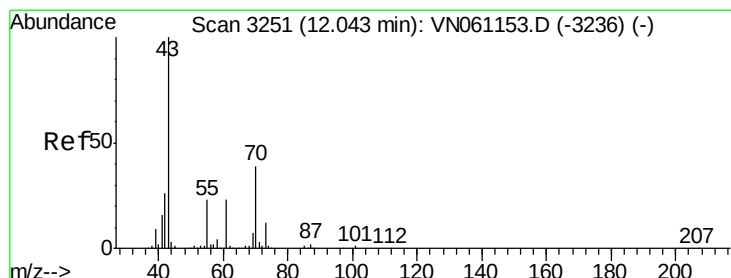
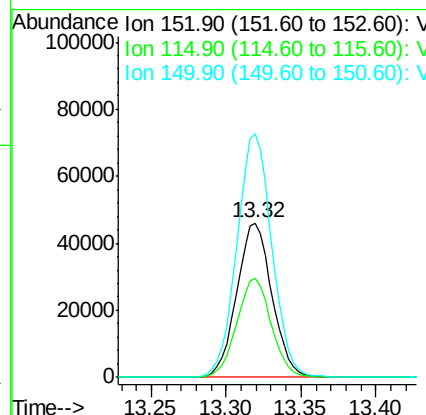
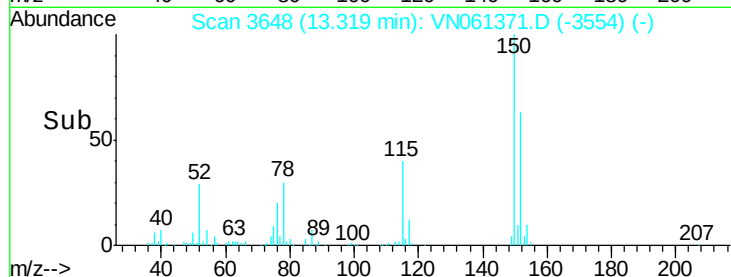
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.32 min Scan# 3648  
 Delta R.T. 0.00 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:152 Resp: 75323  
 Ion Ratio Lower Upper  
 152 100  
 115 63.2 31.0 93.0  
 150 157.3 0.0 351.8

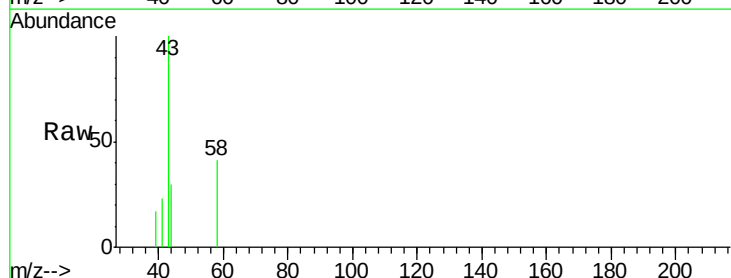


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

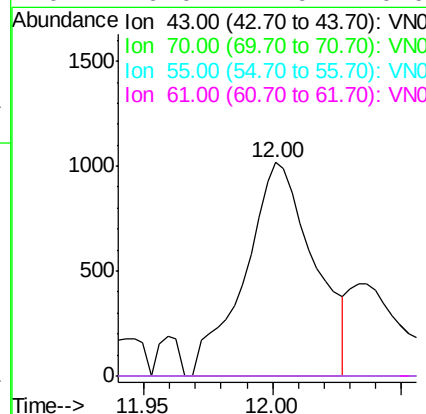
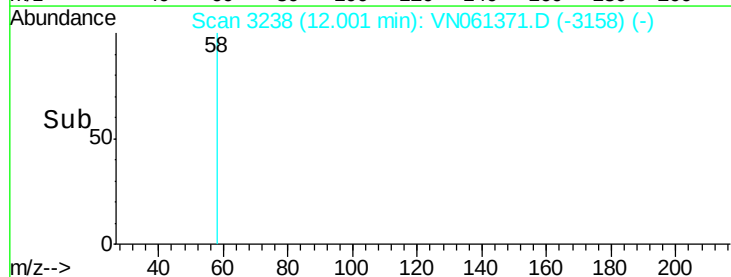


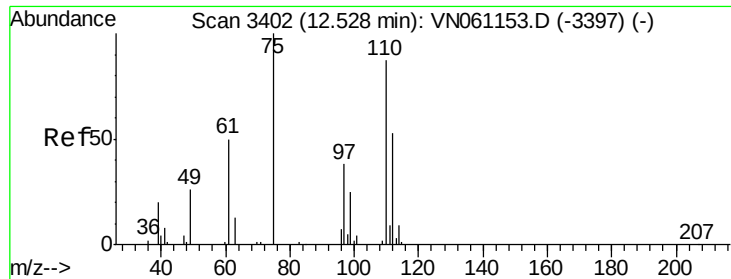
#74  
 N-ethyl acetate  
 Concen: 0.678 ug/l  
 RT: 12.00 min Scan# 3238  
 Delta R.T. -0.04 min  
 Lab File: VN061371.D  
 Acq: 8 May 2020 18:51

Tgt Ion: 43 Resp: 1901  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 30.6 46.0#  
 55 0.0 18.5 27.7#  
 61 0.0 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): V  
 Ion 70.00 (69.70 to 70.70): V  
 Ion 55.00 (54.70 to 55.70): V  
 Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.158 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061371.D

Acq: 8 May 2020 18:51

Instrument :

MSVOA\_N

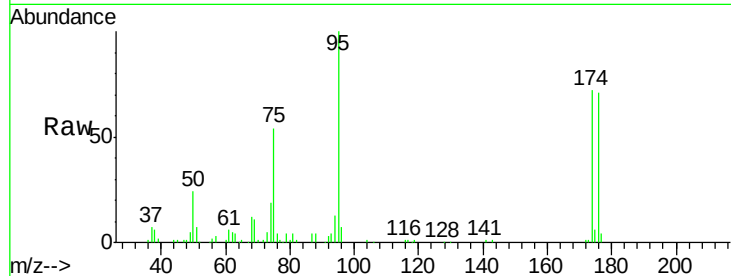
ClientSampled :

Tot Ion: 75 Resp: 46304

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061153.D (-3397) (-)

Ion 77.00 (76.70 to 77.70): VN061153.D (-3397) (-)

12.38

30000

25000

20000

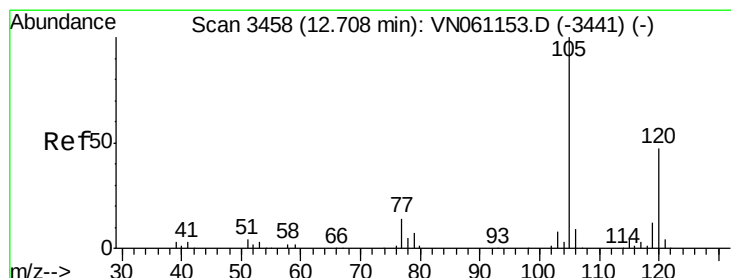
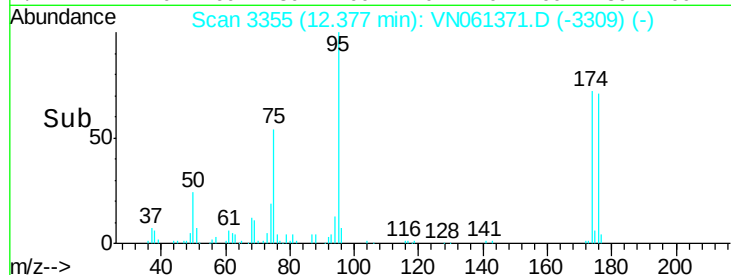
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.312 ug/l

RT: 12.71 min Scan# 3458

Delta R.T. 0.00 min

Lab File: VN061371.D

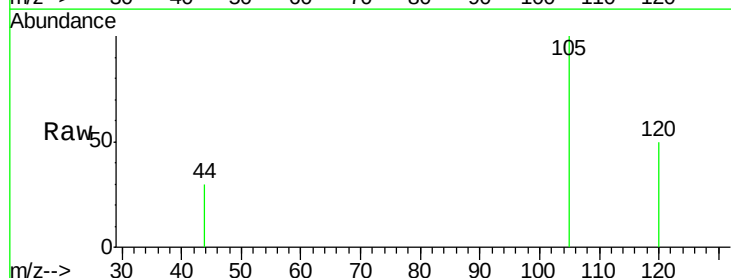
Acq: 8 May 2020 18:51

Tgt Ion: 105 Resp: 1432

Ion Ratio Lower Upper

105 100

120 45.9 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN061153.D (-3441) (-)

Ion 120.00 (119.70 to 120.70): VN061153.D (-3441) (-)

12.71

1000

800

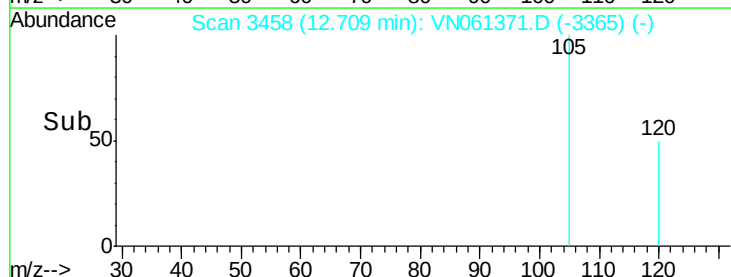
600

400

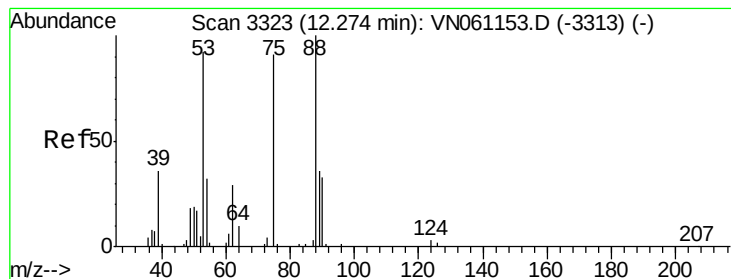
200

0

Time-->







#81

trans-1,4-Dichloro-2-butene

Concen: 74.047 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061371.D

Acq: 8 May 2020 18:51

Instrument :

MSVOA\_N

ClientSampleId :

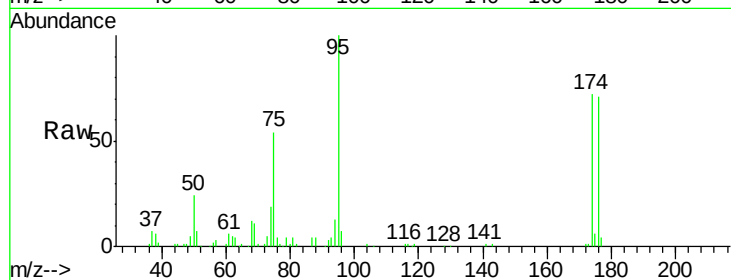
Tot Ion: 75 Resp: 46304

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

