

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\  
 Data File : VN061029.D  
 Acq On : 16 Apr 2020 21:59  
 Operator : JC/MD  
 Sample : L2304-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC-B1-VOA

Quant Time: Apr 17 04:02:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 17 03:49:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 163493   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 279290   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 266041   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 122113   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 110729   | 52.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.88% |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 83790    | 51.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.74% |          |
| 50) Toluene-d8              | 10.08 | 98   | 349147   | 56.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.30% |          |
| 62) 4-Bromofluorobenzene    | 12.39 | 95   | 133158   | 55.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.24% |          |

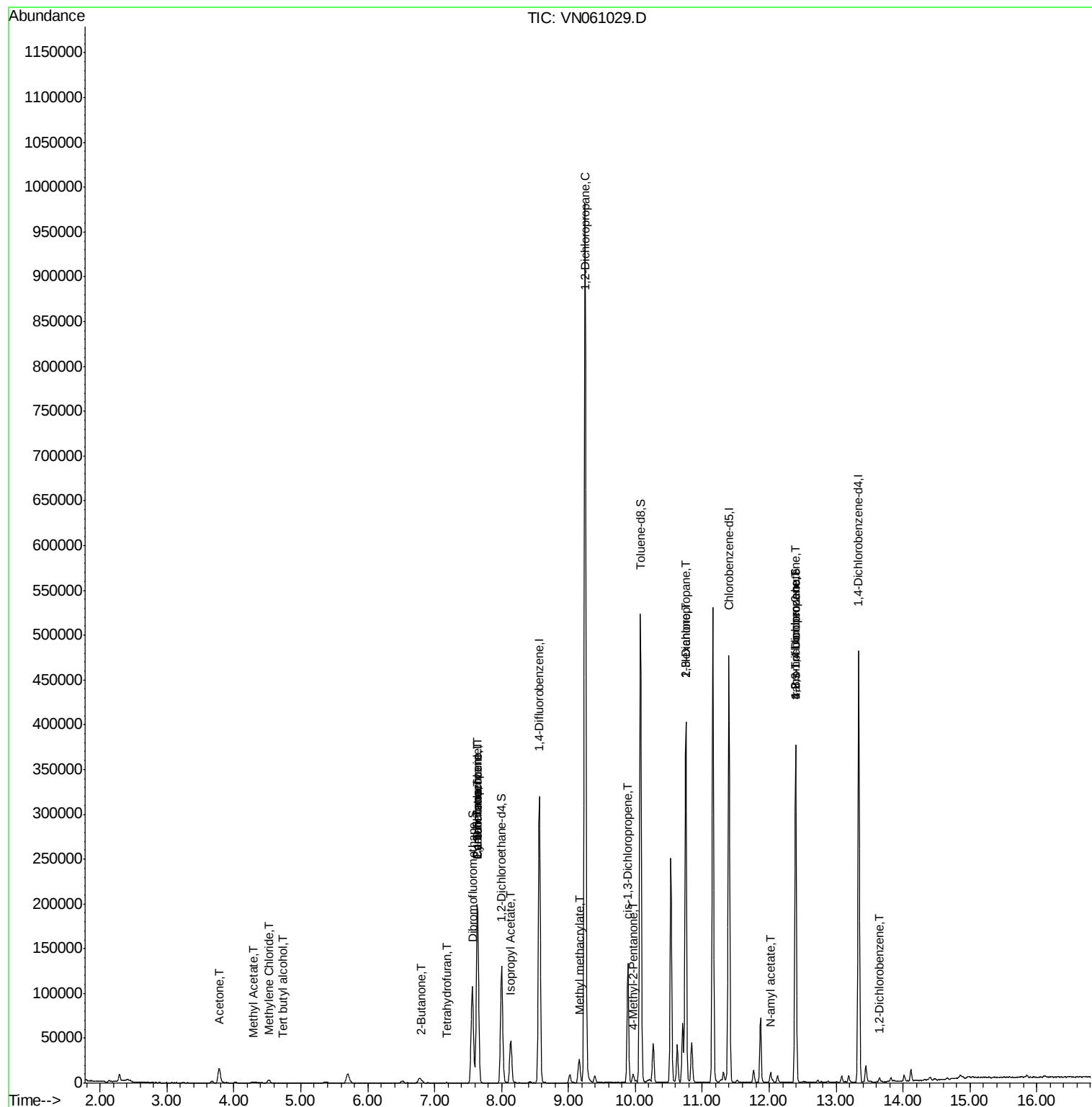
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.73  | 59   | 221      | 0.595  | ug/l # | 73     |
| 16) Acetone                    | 3.78  | 43   | 27849    | 30.248 | ug/l   | 98     |
| 18) Methyl Acetate             | 4.29  | 43   | 2027     | 0.702  | ug/l # | 54     |
| 20) Methylene Chloride         | 4.52  | 84   | 2433     | 1.210  | ug/l   | 93     |
| 25) 2-Butanone                 | 6.81  | 43   | 4508     | 3.195  | ug/l   | 97     |
| 29) Tetrahydrofuran            | 7.18  | 42   | 202      | 0.211  | ug/l # | 36     |
| 31) Cyclohexane                | 7.64  | 56   | 3726     | 0.956  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 13601    | 4.719  | ug/l # | 45     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 15787    | 6.581  | ug/l # | 14     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 57929    | 11.382 | ug/l # | 92     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 1006     | 0.436  | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.15  | 41   | 5722     | 2.544  | ug/l # | 34     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 7317     | 2.494  | ug/l   | 95     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 23489    | 6.589  | ug/l # | 62     |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 4080     | 1.178  | ug/l # | 43     |
| 59) 2-Hexanone                 | 10.75 | 43   | 61878    | 29.244 | ug/l # | 53     |
| 74) N-amyl acetate             | 12.02 | 43   | 8774     | 1.929  | ug/l # | 49     |
| 76) 1,2,3-Trichloropropane     | 12.39 | 75   | 68163    | 25.377 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 68163    | 62.595 | ug/l # | 12     |
| 91) 1,2-Dichlorobenzene        | 13.64 | 146  | 1304     | 0.336  | ug/l   | 96     |

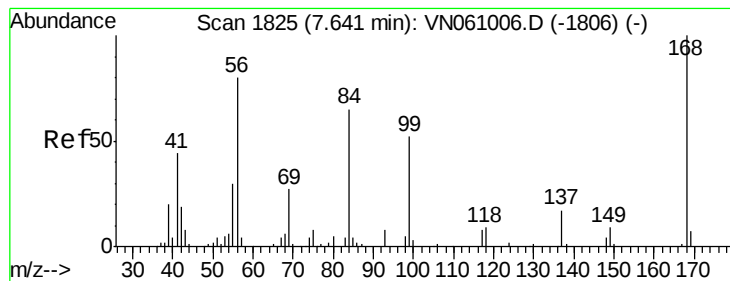
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Apr 17 03:49:39 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA\_N

ClientSampleId :

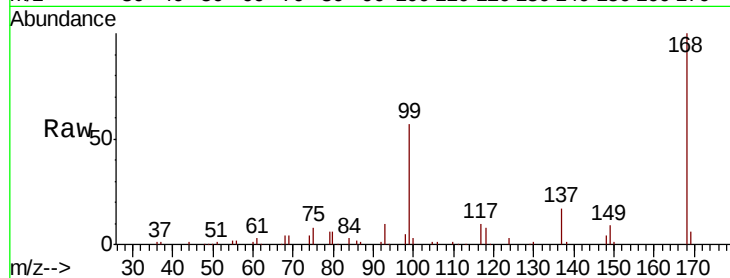
WC-B1-VOA

Tot Ion:168 Resp: 163493

Ion Ratio Lower Upper

168 100

99 56.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN061006.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN061006.D (-1806) (-)

7.64

60000

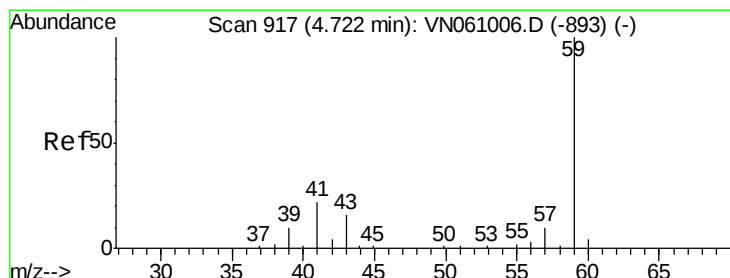
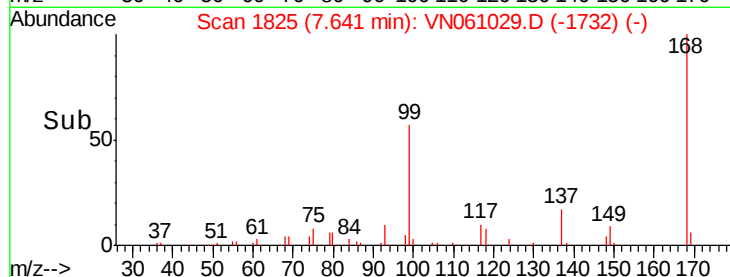
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.595 ug/l

RT: 4.73 min Scan# 918

Delta R.T. 0.00 min

Lab File: VN061029.D

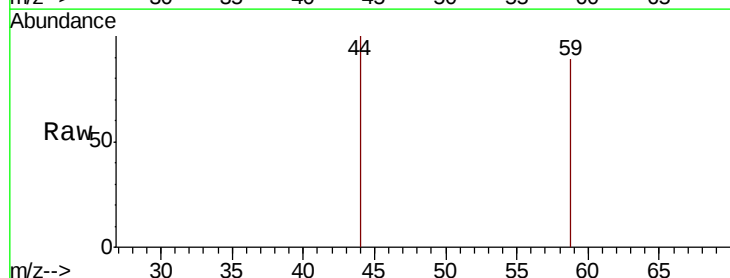
Acq: 16 Apr 2020 21:59

Tgt Ion: 59 Resp: 221

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN061006.D (-893) (-)

Ion 57.00 (56.70 to 57.70): VN061006.D (-893) (-)

4.73

250

200

150

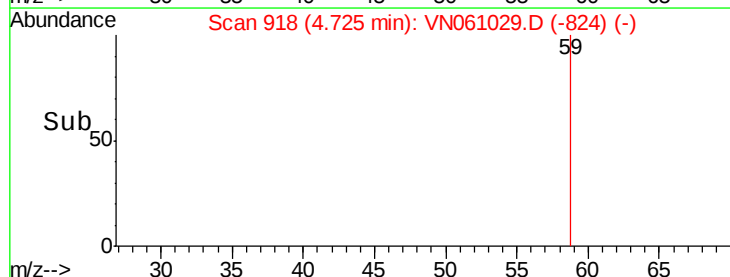
100

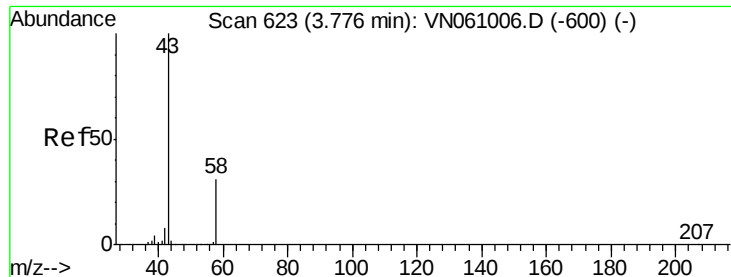
50

0

4.71 4.72 4.73 4.74 4.75

Time-->





#16

Acetone

Concen: 30.248 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA\_N

ClientSampled :

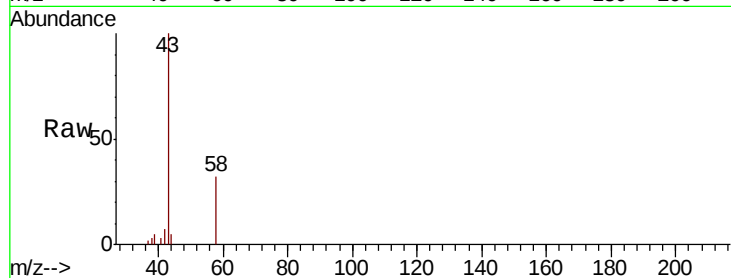
WC-B1-VOA

Tot Ion: 43 Resp: 27849

Ion Ratio Lower Upper

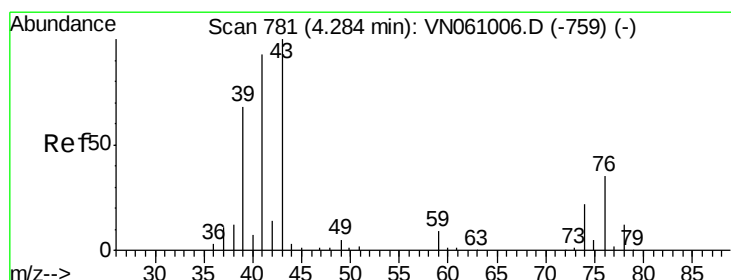
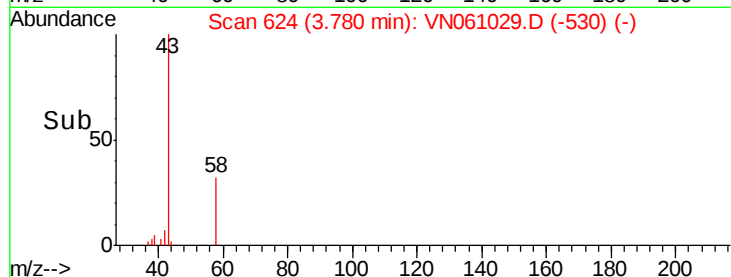
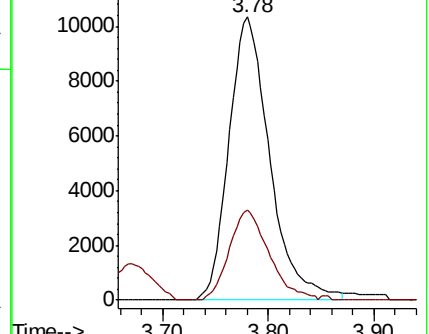
43 100

58 31.9 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-600) (-)



#18

Methyl Acetate

Concen: 0.702 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN061029.D

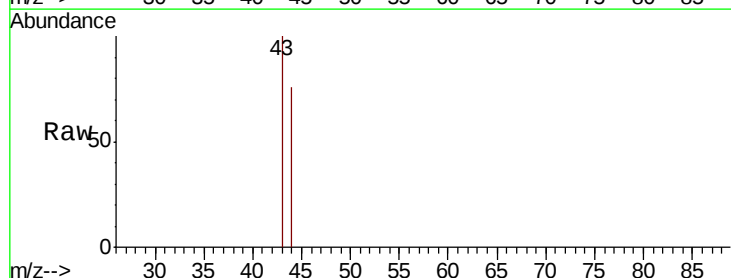
Acq: 16 Apr 2020 21:59

Tgt Ion: 43 Resp: 2027

Ion Ratio Lower Upper

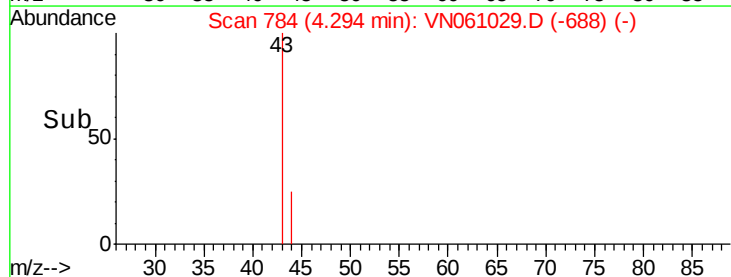
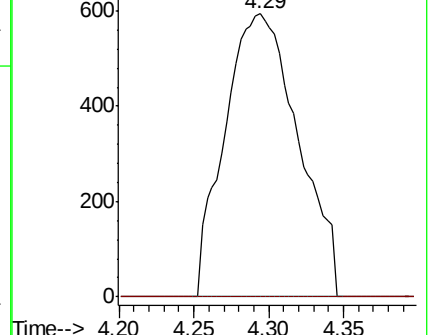
43 100

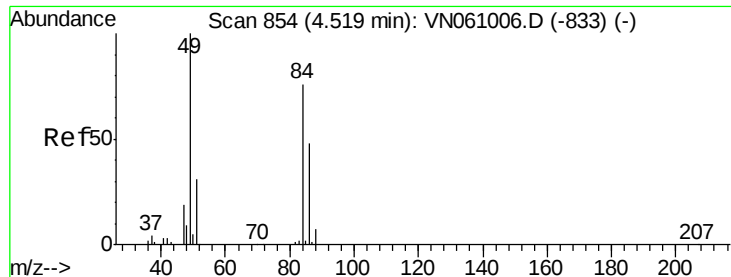
74 0.0 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN061006.D (-759) (-)

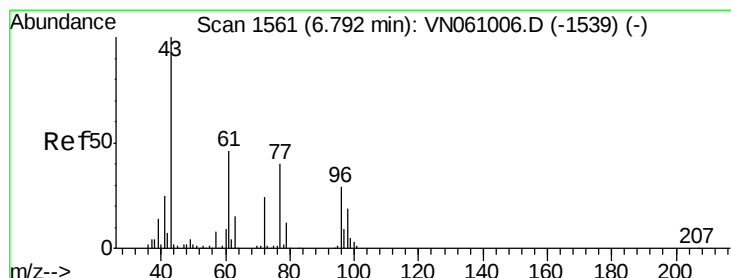
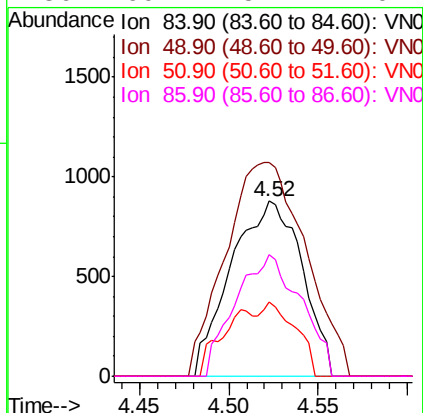
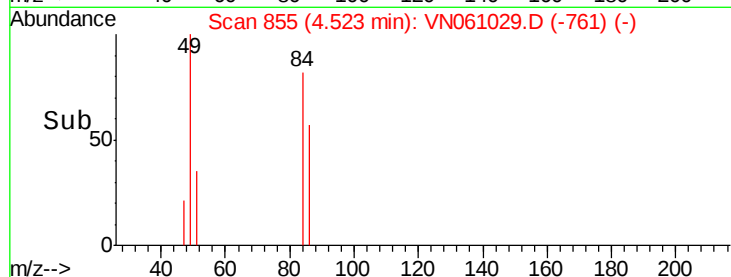
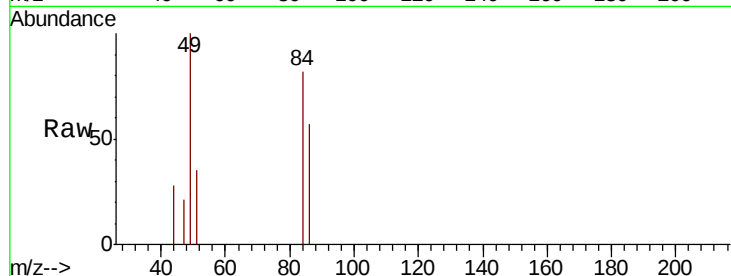




#20  
Methvlene Chloride  
Concen: 1.210 ug/l  
RT: 4.52 min Scan# 855  
Delta R.T. 0.00 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

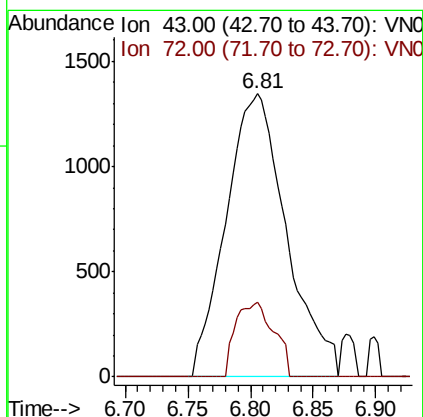
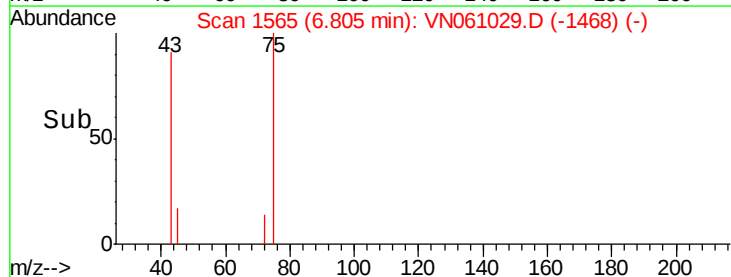
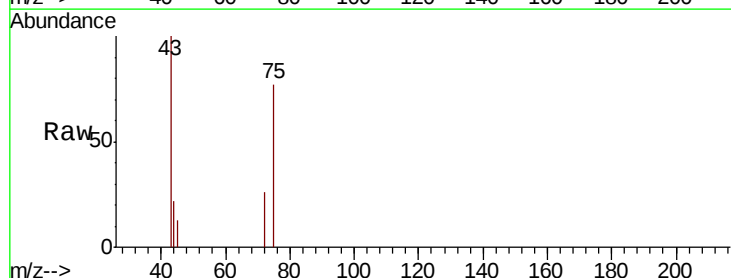
Instrument :  
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WC-B1-VOA

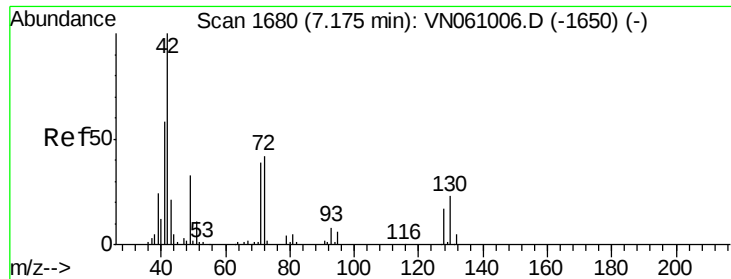
Tot Ion: 84 Resp: 2433  
Ion Ratio Lower Upper  
84 100  
49 121.9 105.8 158.6  
51 42.3 32.4 48.6  
86 69.4 51.1 76.7



#25  
2-Butanone  
Concen: 3.195 ug/l  
RT: 6.81 min Scan# 1565  
Delta R.T. 0.01 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Tgt Ion: 43 Resp: 4508  
Ion Ratio Lower Upper  
43 100  
72 26.2 19.6 29.4

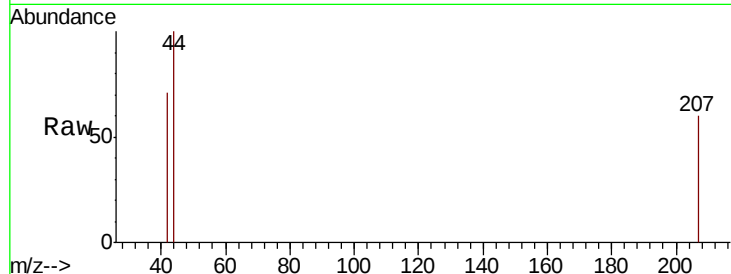




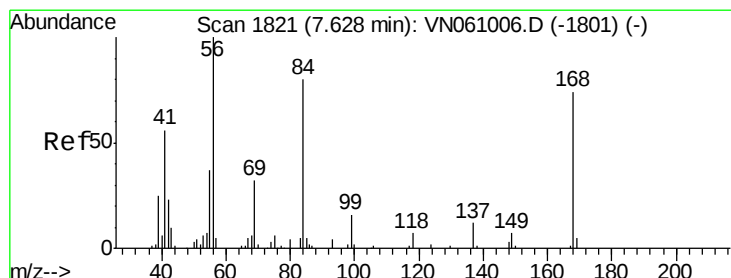
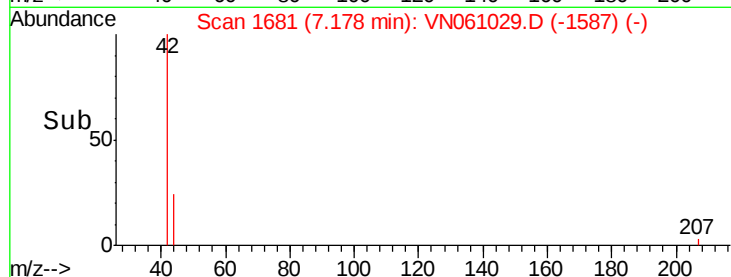
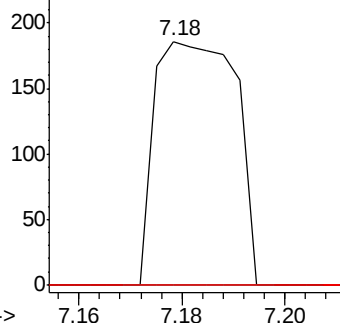
#29  
Tetrahydrofuran  
Concen: 0.211 ug/l  
RT: 7.18 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-B1-VOA

Tot Ion: 42 Resp: 202  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.1 48.1#  
71 0.0 30.5 45.7#

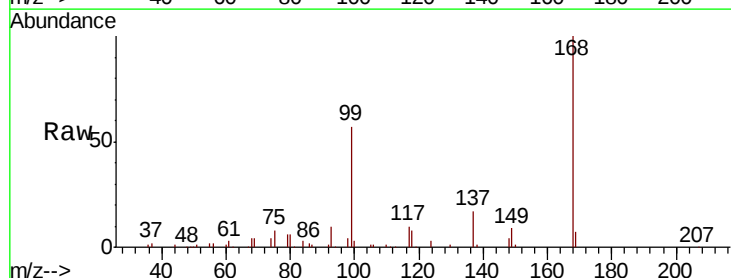


Abundance Ion 42.00 (41.70 to 42.70): VN0  
Ion 72.00 (71.70 to 72.70): VN0  
Ion 71.00 (70.70 to 71.70): VN0

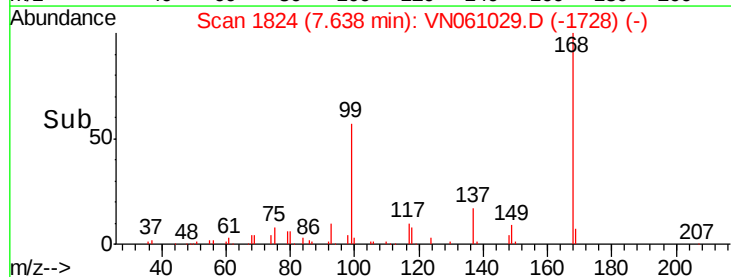
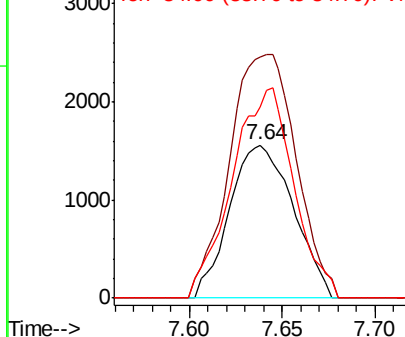


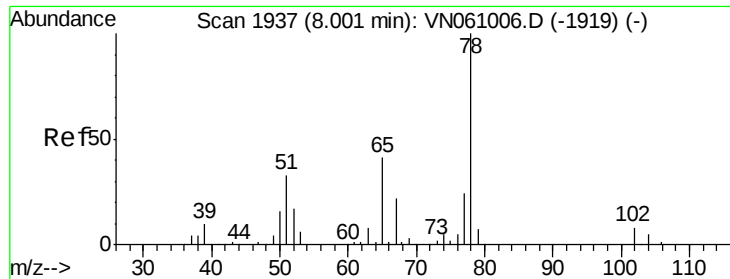
#31  
Cyclohexane  
Concen: 0.956 ug/l  
RT: 7.64 min Scan# 1824  
Delta R.T. 0.01 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Tgt Ion: 56 Resp: 3726  
Ion Ratio Lower Upper  
56 100  
69 157.3 25.6 38.4#  
84 125.1 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

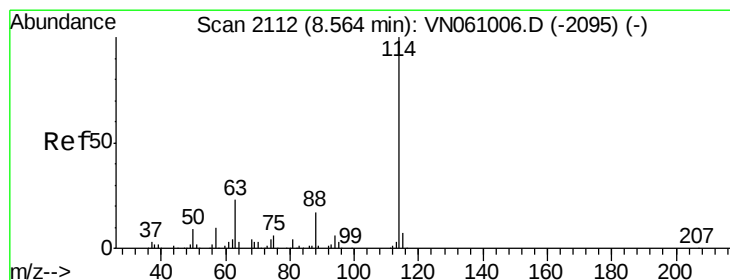
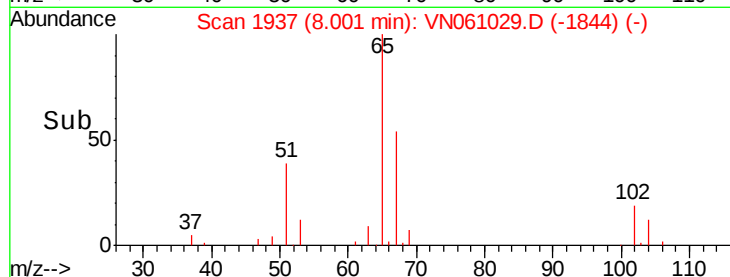
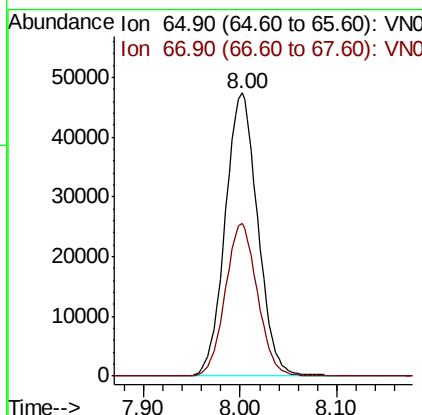
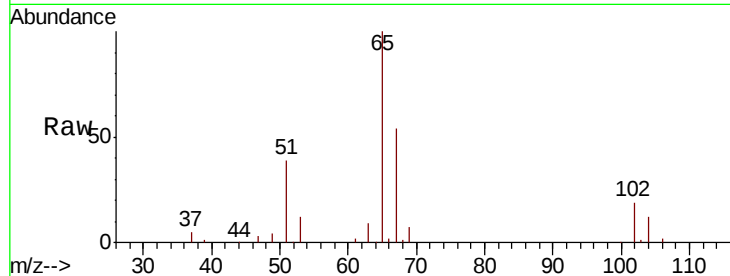




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.935 ug/l  
 RT: 8.00 min Scan# 1937  
 Delta R.T. 0.00 min  
 Lab File: VN061029.D  
 Acq: 16 Apr 2020 21:59

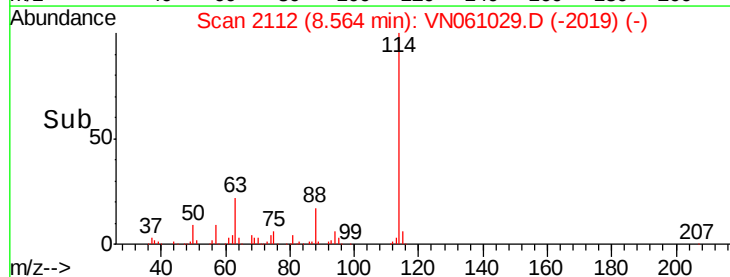
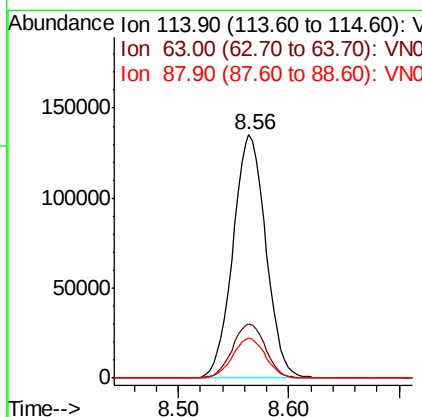
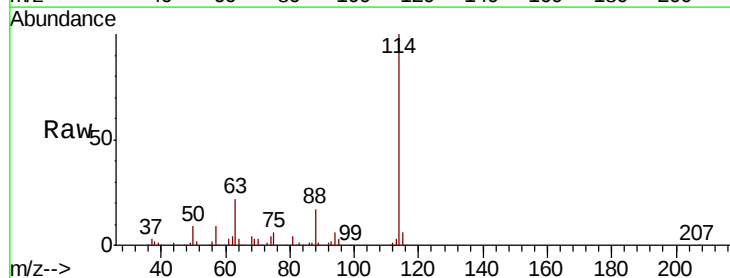
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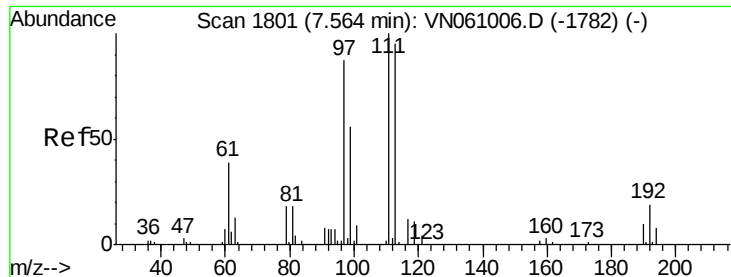
Tot Ion: 65 Resp: 110729  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 0.0 107.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.56 min Scan# 2112  
 Delta R.T. 0.00 min  
 Lab File: VN061029.D  
 Acq: 16 Apr 2020 21:59

Tgt Ion: 114 Resp: 279290  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 46.2  
 88 16.5 0.0 33.4

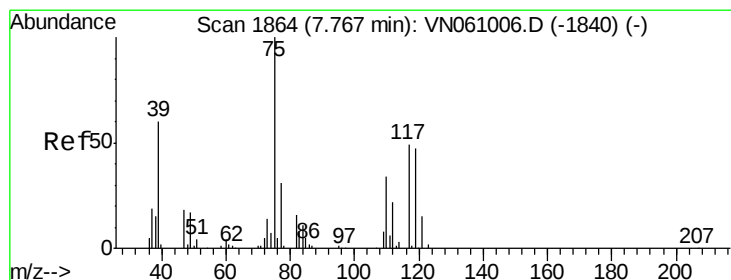
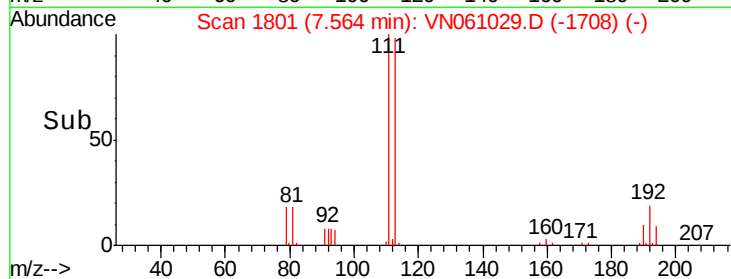
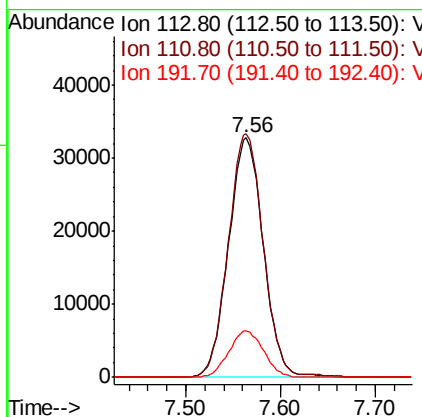
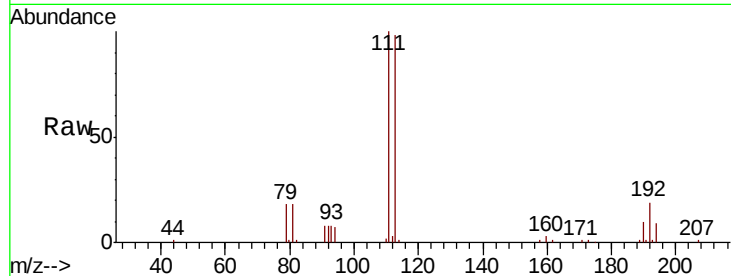




#35  
 Dibromofluoromethane  
 Concen: 51.373 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. 0.00 min  
 Lab File: VN061029.D  
 Acq: 16 Apr 2020 21:59

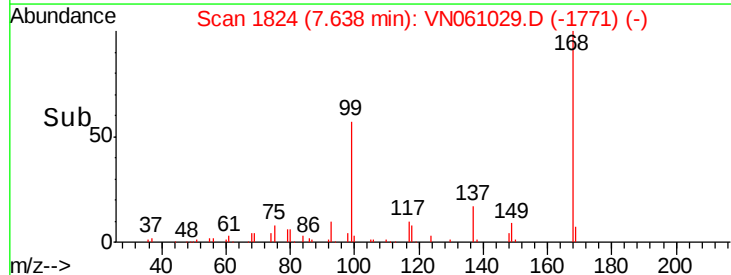
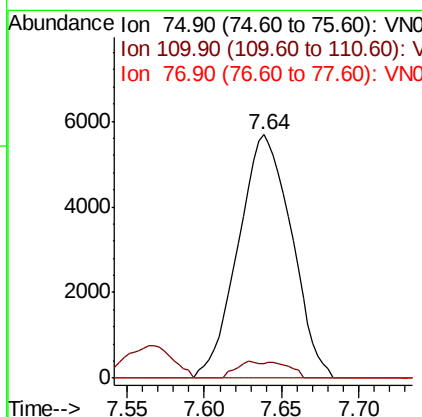
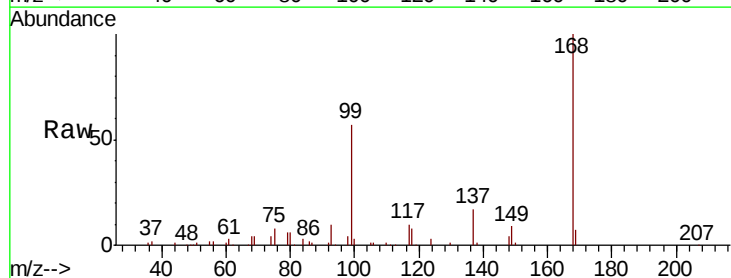
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC-B1-VOA

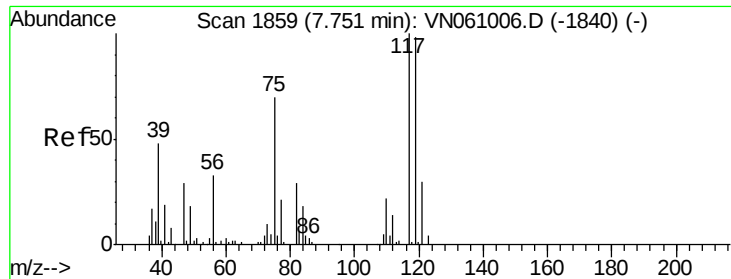
Tot Ion:113 Resp: 83790  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 83.4 125.2  
 192 19.3 15.5 23.3



#36  
 1,1-Dichloropropene  
 Concen: 4.719 ug/l  
 RT: 7.64 min Scan# 1824  
 Delta R.T. -0.13 min  
 Lab File: VN061029.D  
 Acq: 16 Apr 2020 21:59

Tgt Ion: 75 Resp: 13601  
 Ion Ratio Lower Upper  
 75 100  
 110 2.9 16.8 50.3#  
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.581 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA\_N

ClientSampleId :

WC-B1-VOA

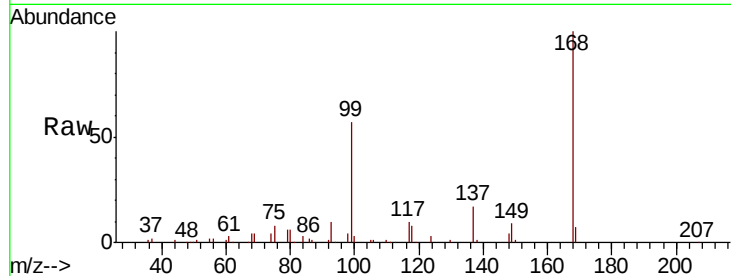
Tot Ion:117 Resp: 15787

Ion Ratio Lower Upper

117 100

119 4.0 78.1 117.1#

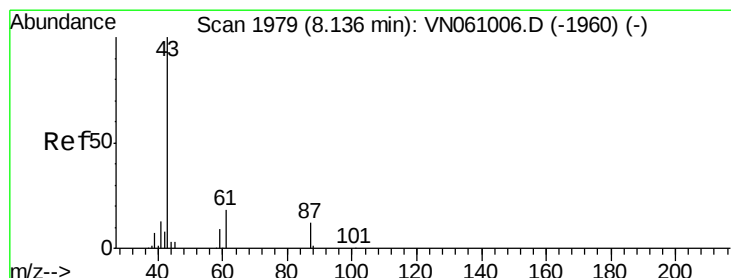
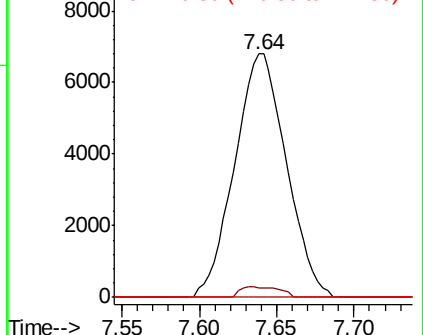
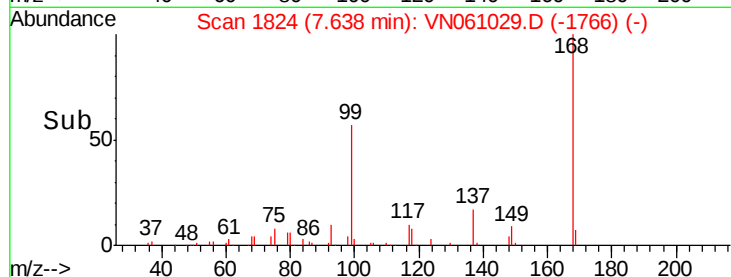
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.382 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

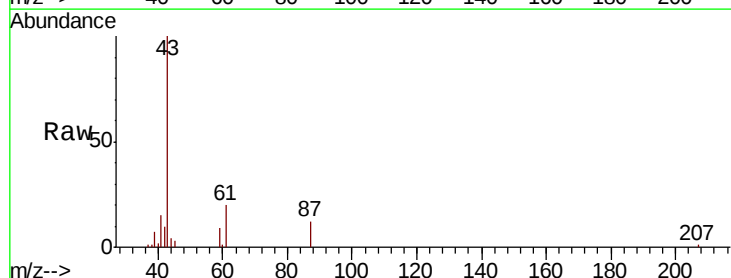
Tgt Ion: 43 Resp: 57929

Ion Ratio Lower Upper

43 100

61 19.7 20.3 30.5#

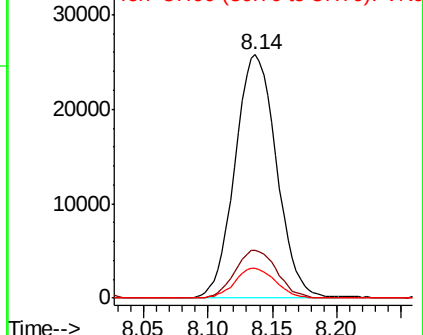
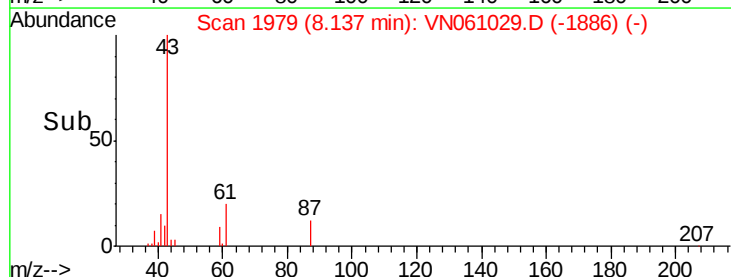
87 12.0 9.4 14.2

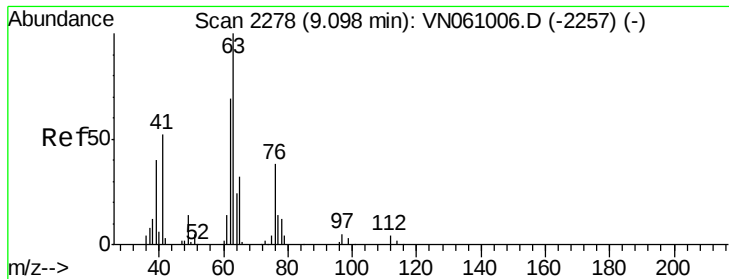


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.436 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA\_N

ClientSampleId :

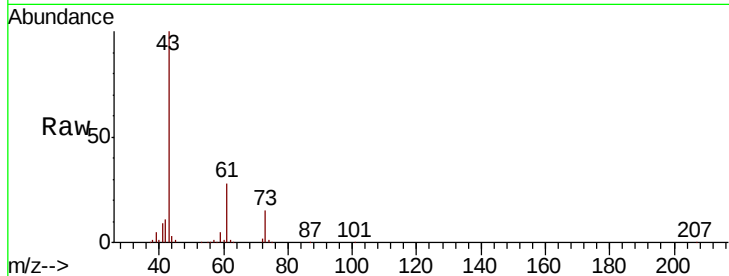
WC-B1-VOA

Tot Ion: 63 Resp: 1006

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

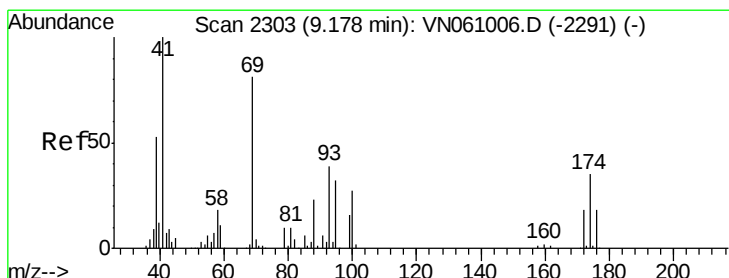
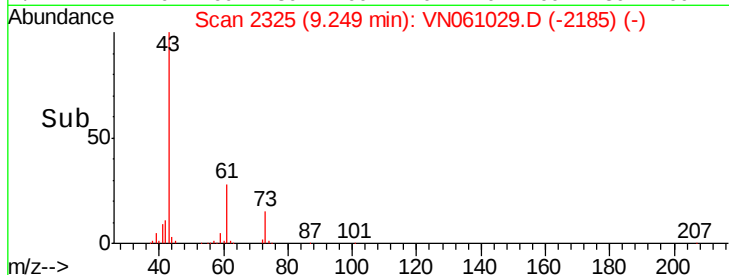
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 2.544 ug/l

RT: 9.15 min Scan# 2295

Delta R.T. -0.03 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

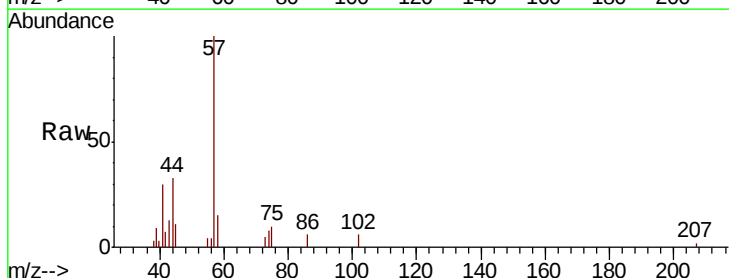
Tgt Ion: 41 Resp: 5722

Ion Ratio Lower Upper

41 100

69 0.0 65.3 97.9#

39 34.5 45.2 67.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

60000

50000

40000

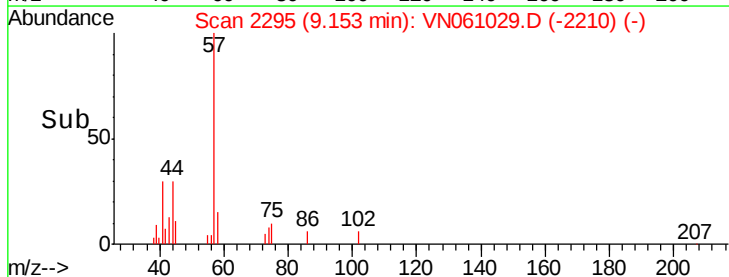
30000

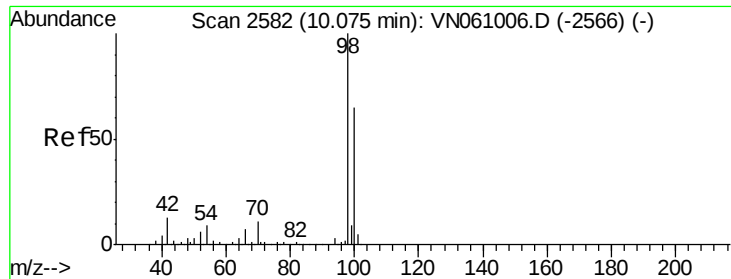
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 56.649 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA\_N

ClientSampleId :

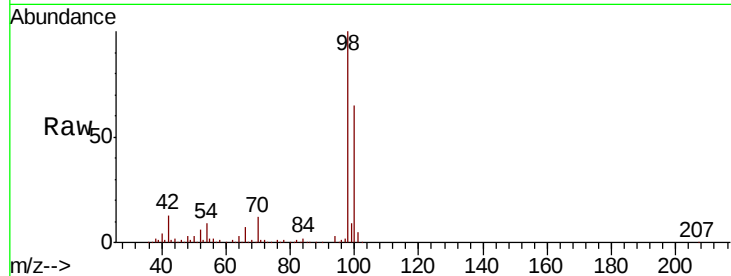
WC-B1-VOA

Tot Ion: 98 Resp: 349147

Ion Ratio Lower Upper

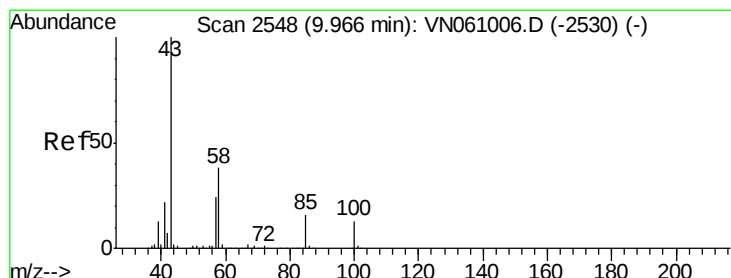
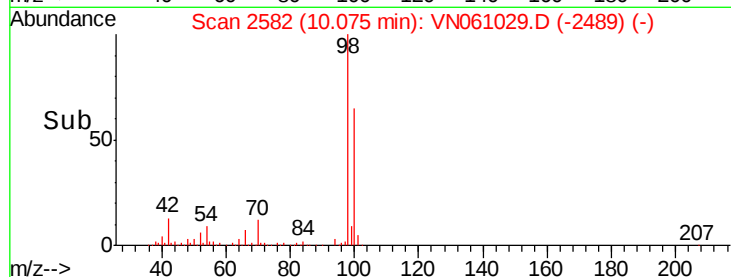
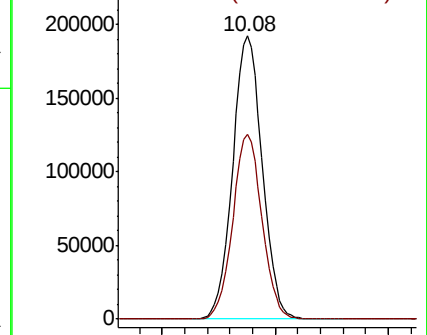
98 100

100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.494 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061029.D

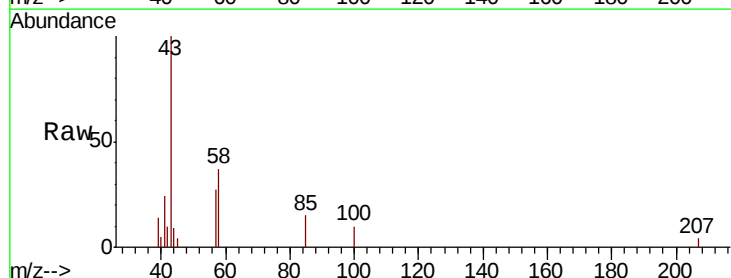
Acq: 16 Apr 2020 21:59

Tgt Ion: 43 Resp: 7317

Ion Ratio Lower Upper

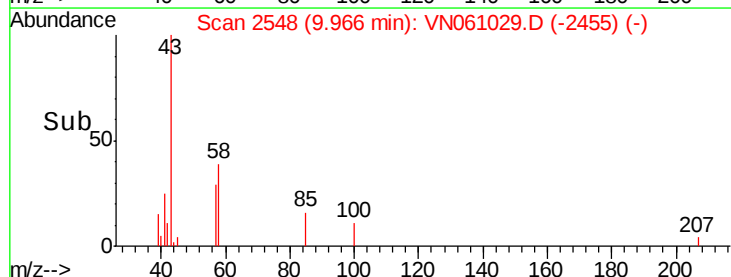
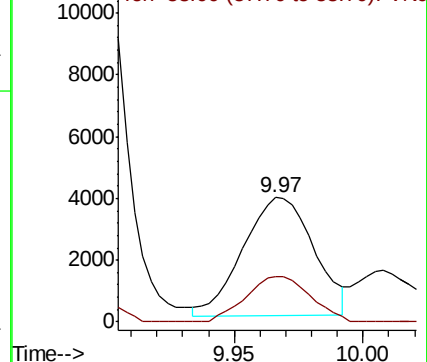
43 100

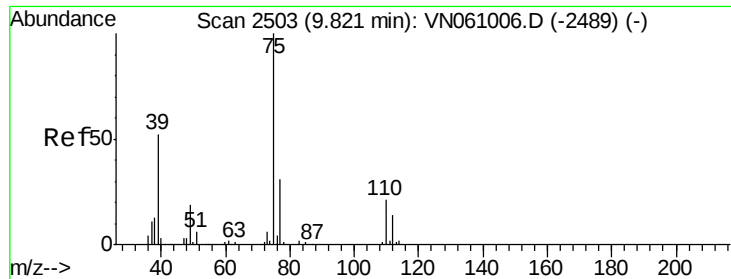
58 35.1 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



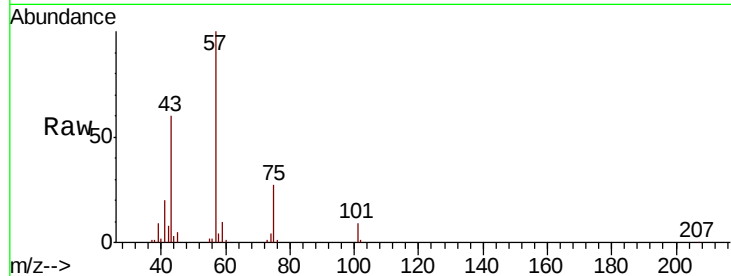


#54

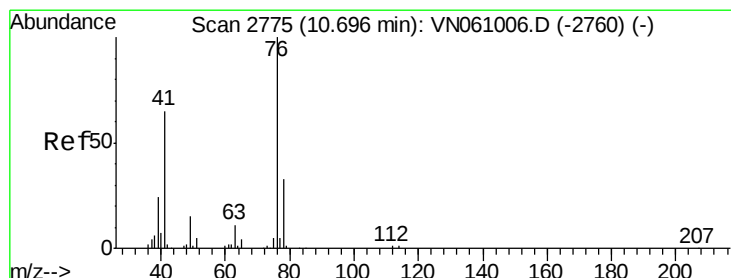
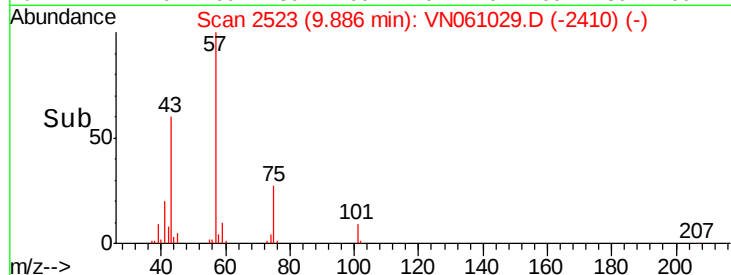
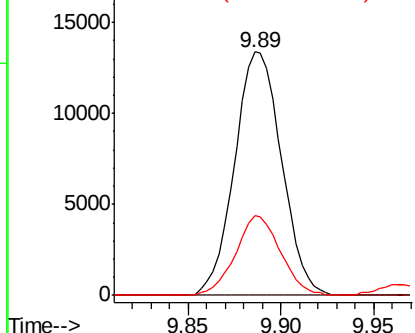
cis-1,3-Dichloropropene  
 Concen: 6.589 ug/l  
 RT: 9.89 min Scan# 2523  
 Delta R.T. 0.06 min  
 Lab File: VN061029.D  
 Acq: 16 Apr 2020 21:59

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC-B1-VOA

Tot Ion: 75 Resp: 23489  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.0 37.6#  
 39 32.7 41.4 62.2#



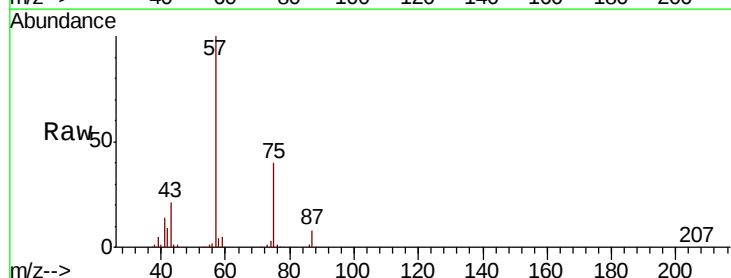
Abundance Ion 74.90 (74.60 to 75.60): VN0  
 Ion 76.90 (76.60 to 77.60): VN0  
 Ion 39.00 (38.70 to 39.70): VN0



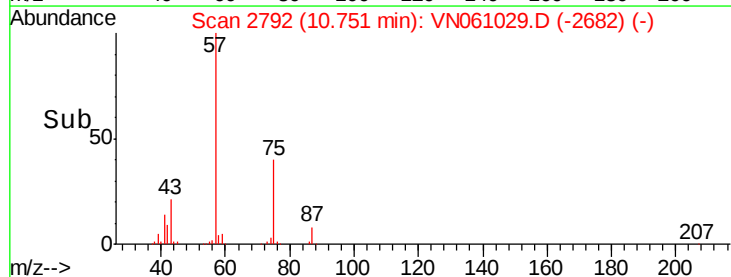
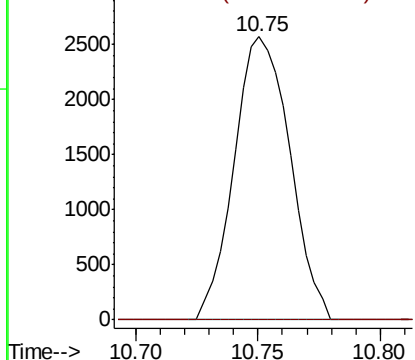
#57

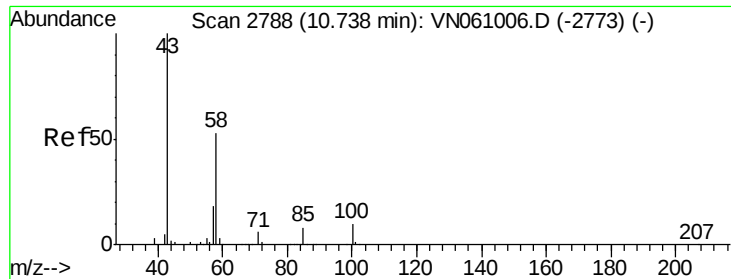
1,3-Dichloropropane  
 Concen: 1.178 ug/l  
 RT: 10.75 min Scan# 2792  
 Delta R.T. 0.05 min  
 Lab File: VN061029.D  
 Acq: 16 Apr 2020 21:59

Tgt Ion: 76 Resp: 4080  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0  
 Ion 77.90 (77.60 to 78.60): VN0

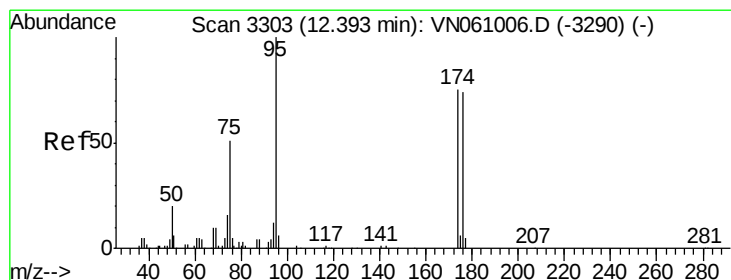
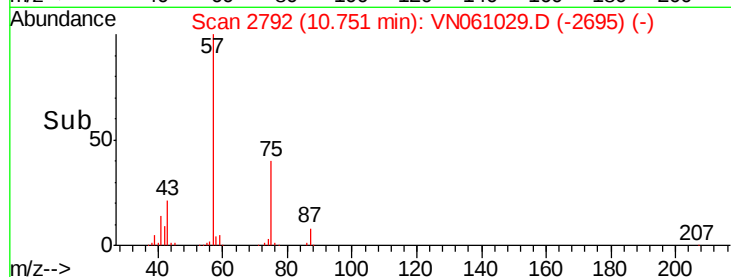
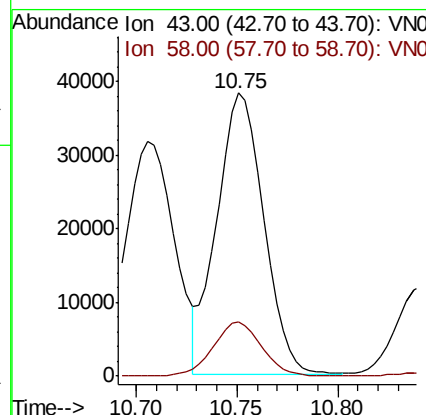
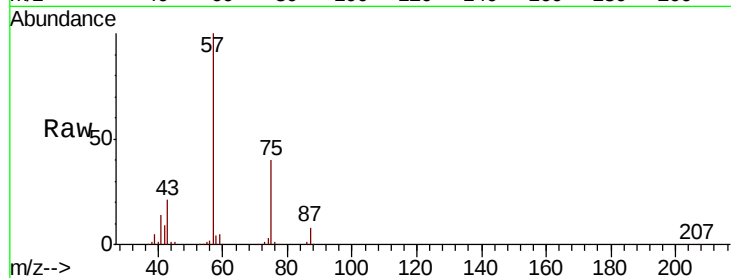




#59  
2-Hexanone  
Concen: 29.244 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. 0.01 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

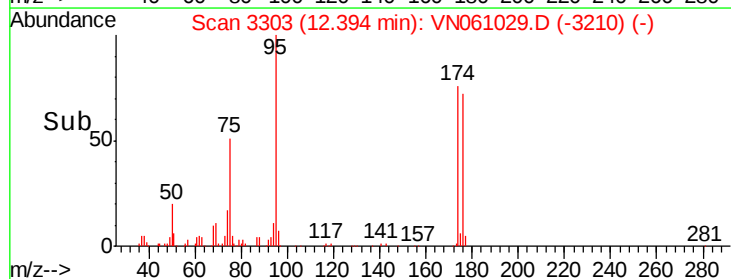
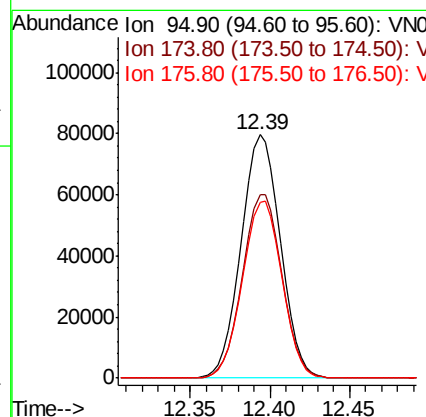
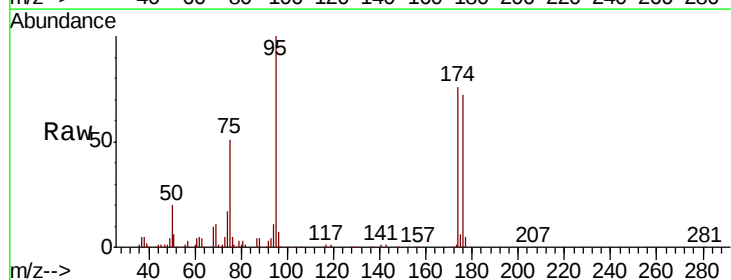
Instrument :  
MSVOA\_N  
ClientSampled :  
WC-B1-VOA

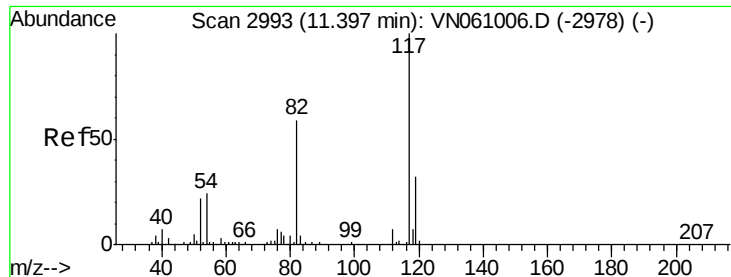
Tot Ion: 43 Resp: 61878  
Ion Ratio Lower Upper  
43 100  
58 19.7 26.4 79.0#



#62  
4-Bromofluorobenzene  
Concen: 55.125 ug/l  
RT: 12.39 min Scan# 3303  
Delta R.T. 0.00 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Tgt Ion: 95 Resp: 133158  
Ion Ratio Lower Upper  
95 100  
174 76.1 0.0 151.2  
176 73.3 0.0 148.2

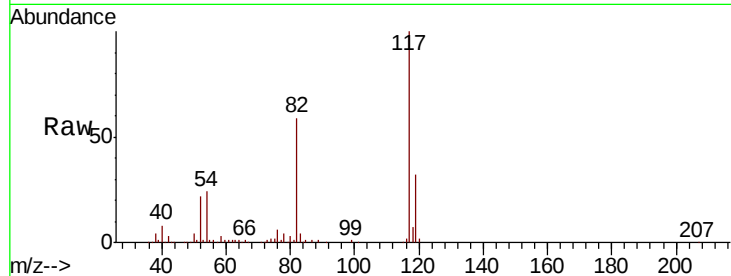




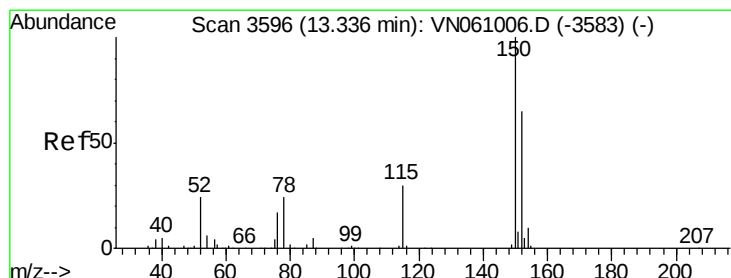
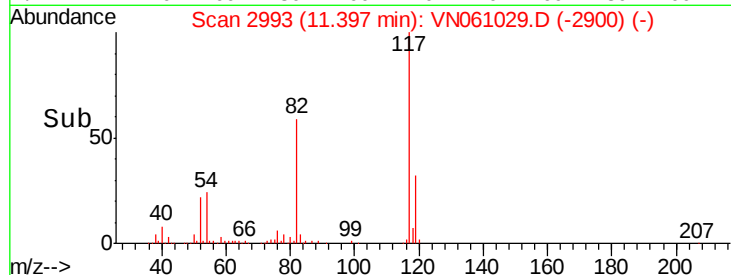
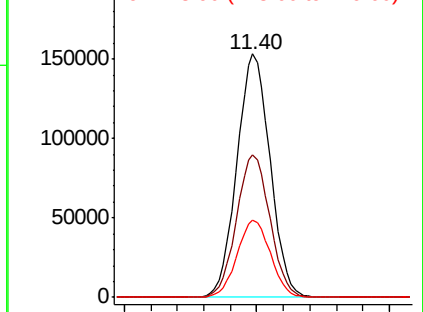
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2993  
Delta R.T. 0.00 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-B1-VOA

Tot Ion:117 Resp: 266041  
Ion Ratio Lower Upper  
117 100  
82 58.6 47.1 70.7  
119 31.7 25.7 38.5

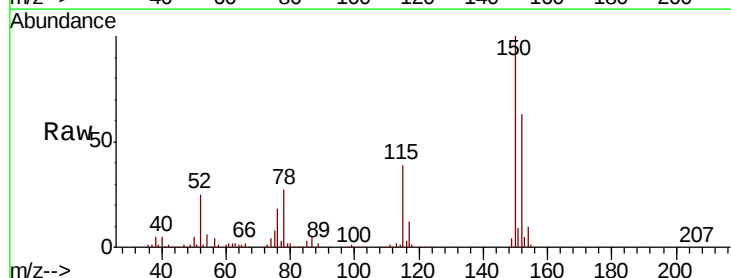


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

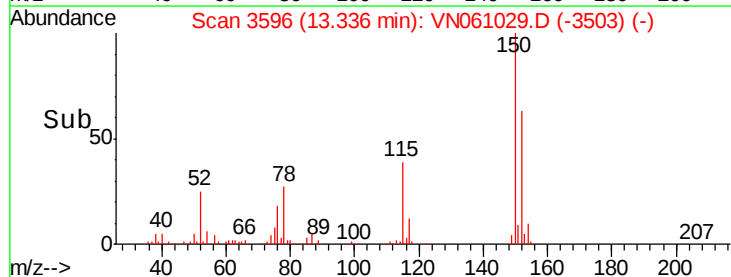
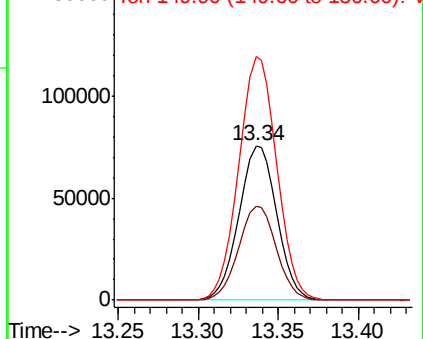


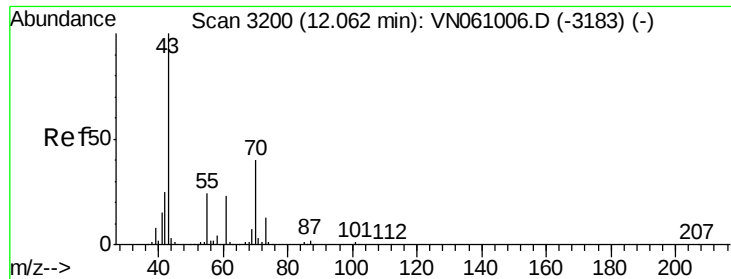
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3596  
Delta R.T. 0.00 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Tgt Ion:152 Resp: 122113  
Ion Ratio Lower Upper  
152 100  
115 60.9 30.8 92.4  
150 158.2 0.0 349.0



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-amyl acetate

Concen: 1.929 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA\_N

ClientSampleId :

WC-B1-VOA

Tot Ion: 43 Resp: 8774

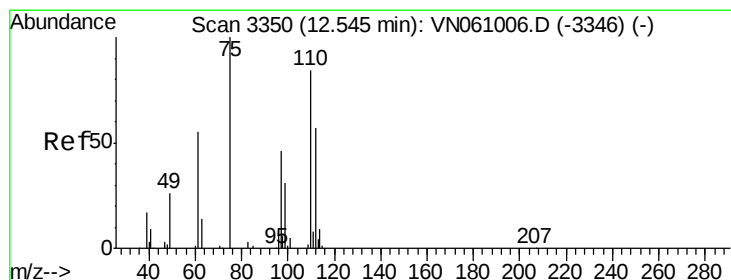
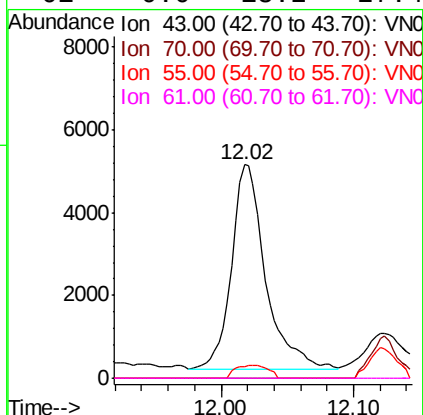
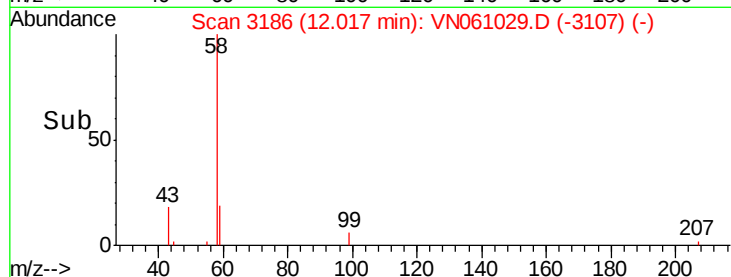
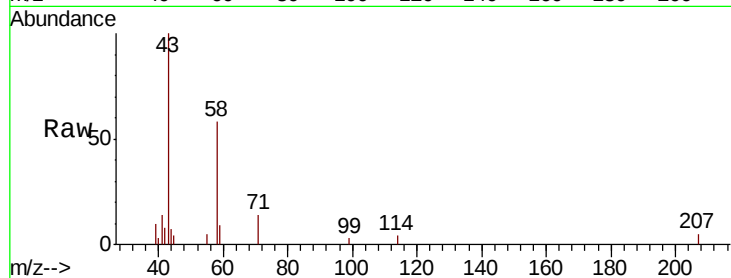
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 6.2 18.6 27.8#

61 0.0 18.2 27.4#



#76

1,2,3-Trichloropropane

Concen: 25.377 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061029.D

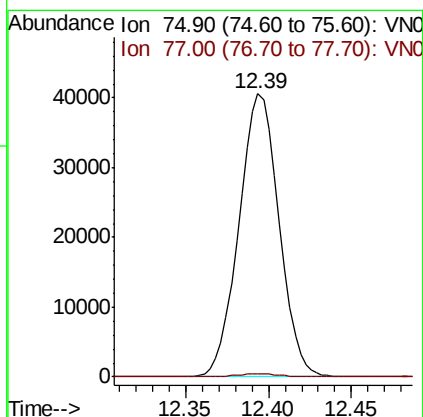
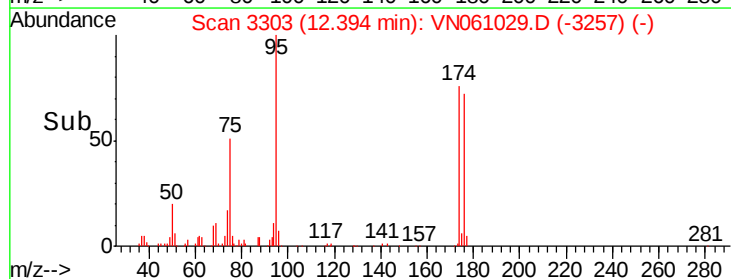
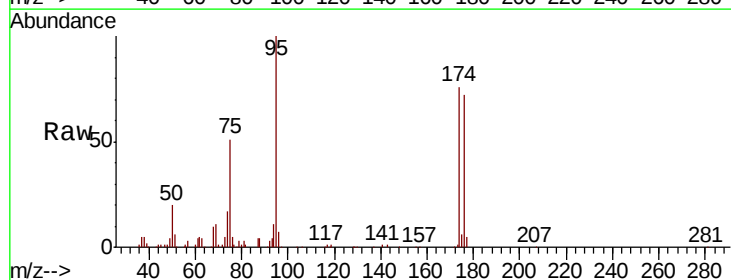
Acq: 16 Apr 2020 21:59

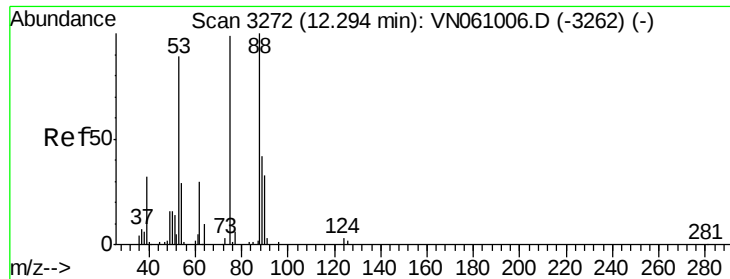
Tgt Ion: 75 Resp: 68163

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

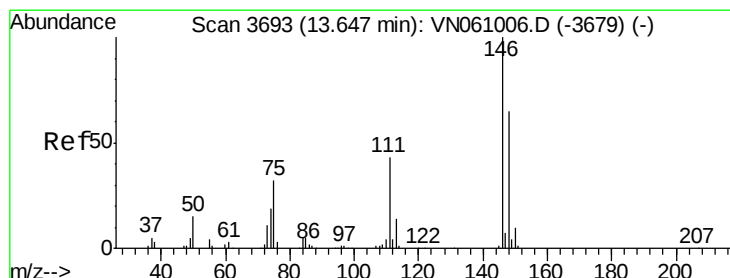
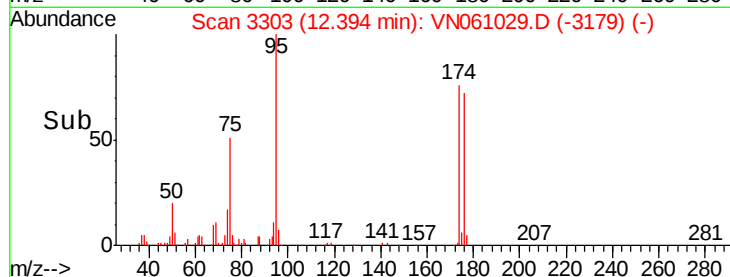
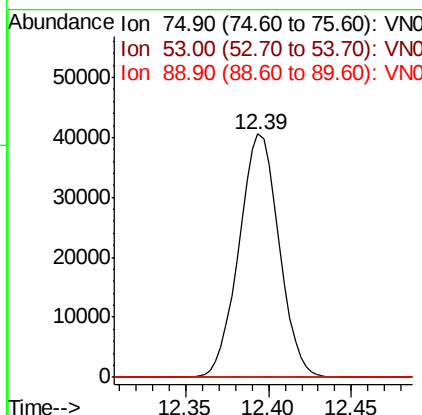
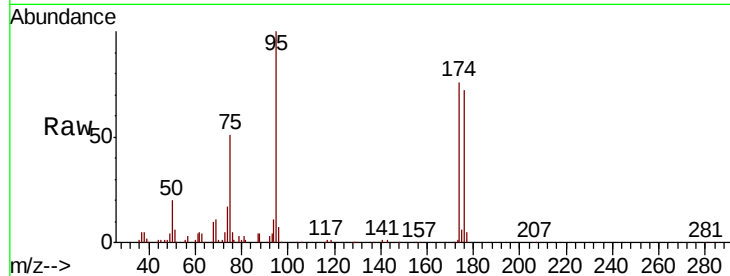




#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.595 ug/l  
RT: 12.39 min Scan# 3303  
Delta R.T. 0.10 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Instrument :  
MSVOA\_N  
ClientSampled :  
WC-B1-VOA

Tot Ion: 75 Resp: 68163  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.7 112.1#  
89 0.0 34.6 52.0#



#91  
1,2-Dichlorobenzene  
Concen: 0.336 ug/l  
RT: 13.64 min Scan# 3691  
Delta R.T. -0.01 min  
Lab File: VN061029.D  
Acq: 16 Apr 2020 21:59

Tgt Ion: 146 Resp: 1304  
Ion Ratio Lower Upper  
146 100  
111 43.7 21.3 64.0  
148 68.8 32.0 96.0

