

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\  
 Data File : VN049303.D  
 Acq On : 16 Jun 2018 11:09  
 Operator : MD\SY  
 Sample : J3501-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 18 01:16:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1352065  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2146703  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1816353  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 568519   | 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   | 876218   | 48.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.72% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 786124   | 45.26 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.52% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2988169  | 45.19 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.38% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 795975   | 36.40 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 72.80% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 8) Diethyl Ether               | 3.41  | 74   | 3767     | 0.40   | ug/l  | 82     |
| 11) Tert butyl alcohol         | 4.81  | 59   | 290      | 0.28   | ug/l  | # 70   |
| 16) Acetone                    | 3.82  | 43   | 36929    | 8.48   | ug/l  | 91     |
| 18) Methyl Acetate             | 4.33  | 43   | 115771   | 8.72   | ug/l  | 93     |
| 20) Methylene Chloride         | 4.55  | 84   | 367214   | 20.19  | ug/l  | 91     |
| 25) 2-Butanone                 | 6.86  | 43   | 6189     | 1.06   | ug/l  | 100    |
| 29) Tetrahydrofuran            | 7.22  | 42   | 2041     | 0.54   | ug/l  | # 71   |
| 30) Chloroform                 | 7.37  | 83   | 24460    | 0.79   | ug/l  | 96     |
| 31) Cyclohexane                | 7.66  | 56   | 24633    | 0.76   | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 96860    | 3.94   | ug/l  | # 50   |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 126085   | 4.95   | ug/l  | # 17   |
| 43) Isopropyl Acetate          | 8.23  | 43   | 314985   | 12.33  | ug/l  | # 64   |
| 47) Bromodichloromethane       | 9.40  | 83   | 9812     | 0.39   | ug/l  | 87     |
| 49) 1,4-Dioxane                | 9.20  | 88   | 350      | 2.11   | ug/l  | # 53   |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 5689     | 0.42   | ug/l  | # 84   |
| 52) Toluene                    | 10.16 | 92   | 16034    | 0.36   | ug/l  | 99     |
| 58) 2-Chloroethyl Vinyl ether  | 9.82  | 63   | 63       | 14.34  | ug/l  | # 51   |
| 64) Tetrachloroethene          | 10.63 | 164  | 4129     | 0.22   | ug/l  | 96     |
| 65) Chlorobenzene              | 11.44 | 112  | 18432    | 0.39   | ug/l  | 89     |
| 67) Ethyl Benzene              | 11.51 | 91   | 67351    | 0.87   | ug/l  | 96     |
| 68) m/p-Xylenes                | 11.62 | 106  | 72298    | 2.48   | ug/l  | 99     |
| 69) o-Xylene                   | 11.95 | 106  | 21763    | 0.78   | ug/l  | 93     |
| 70) Styrene                    | 11.96 | 104  | 10162    | 0.23   | ug/l  | # 66   |
| 71) Bromoform                  | 12.41 | 173  | 6082     | 0.53   | ug/l  | # 1    |
| 75) 1,1,2,2-Tetrachloroethane  | 12.44 | 83   | 75       | Below  | Cal   | # 26   |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 385364   | 39.73  | ug/l  | # 100  |
| 77) Bromobenzene               | 12.54 | 156  | 6043     | 0.46   | ug/l  | # 1    |
| 78) n-propylbenzene            | 12.60 | 91   | 14428    | 0.26   | ug/l  | 99     |
| 79) 2-Chlorotoluene            | 12.66 | 91   | 7624     | 0.22   | ug/l  | # 59   |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 25847    | 0.66   | ug/l  | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 385364   | 125.56 | ug/l  | # 9    |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 73448    | 1.88   | ug/l  | 97     |
| 90) Hexachloroethane           | 13.89 | 117  | 1875     | Below  | Cal   | # 9    |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 760      | 4.81   | ug/l  | # 49   |

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Sample : J3501-04  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jun 18 01:16:09 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:02:01 2018  
Response via : Initial Calibration

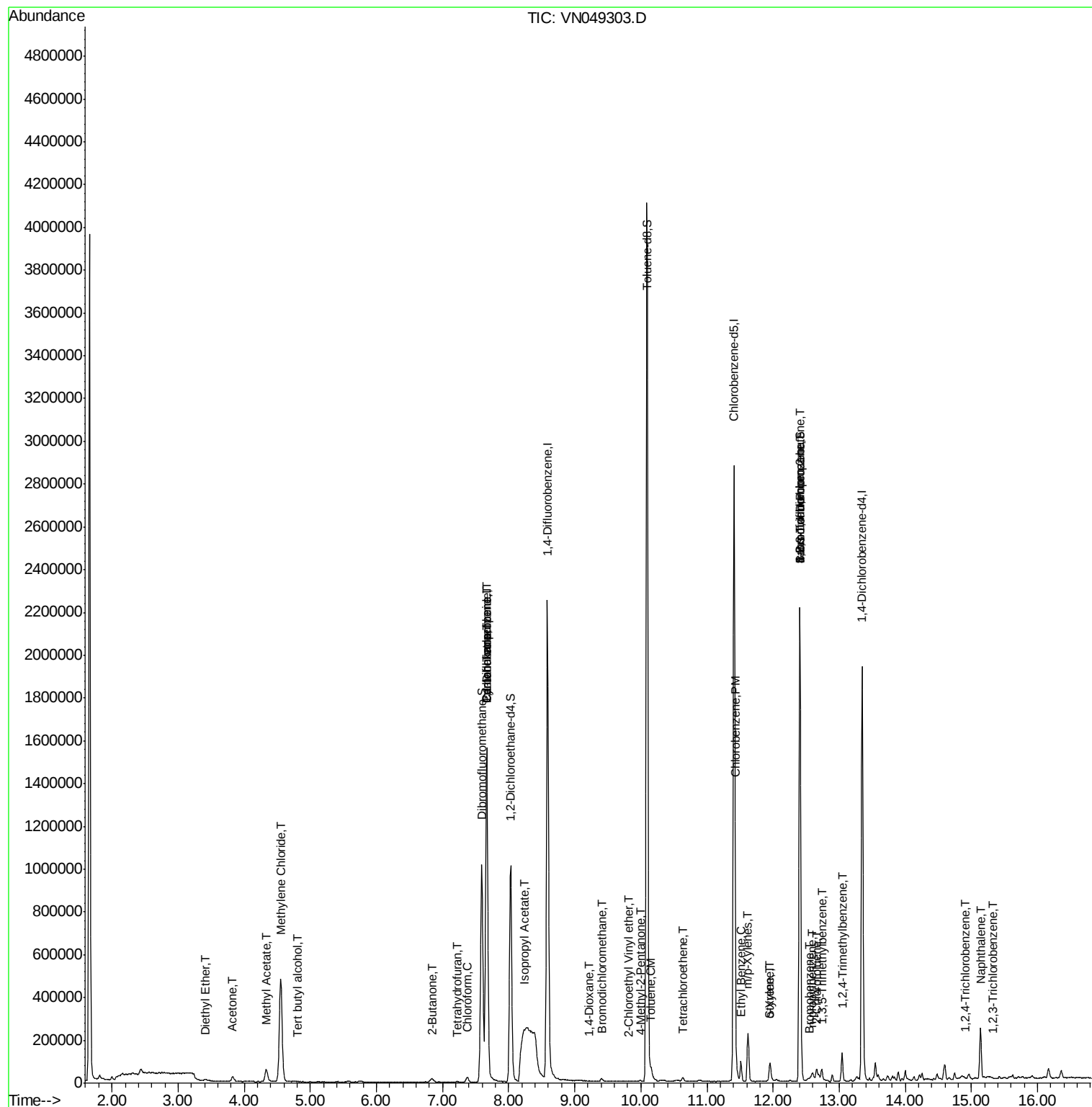
| Internal Standards         | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-----------|--------|----------|
| 94) Hexachlorobutadiene    | 15.01 | 225  | 29       | Below Cal | #      | 18       |
| 95) Naphthalene            | 15.14 | 128  | 200633   | 14.37     | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.33 | 180  | 202      | 3.48      | ug/l # | 72       |

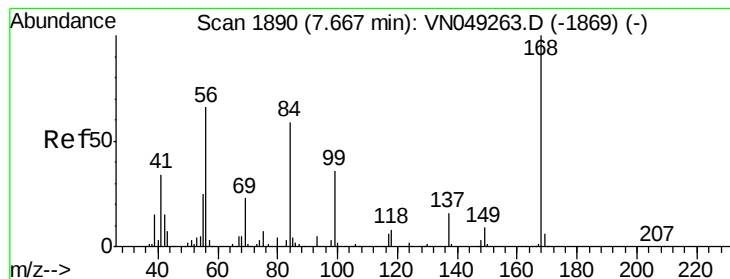
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 18 01:16:09 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
Quant Title : SW846 8260  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

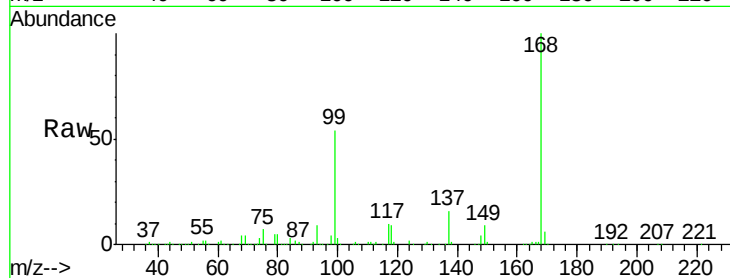
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 1352065

Ion Ratio Lower Upper

168 100

99 53.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

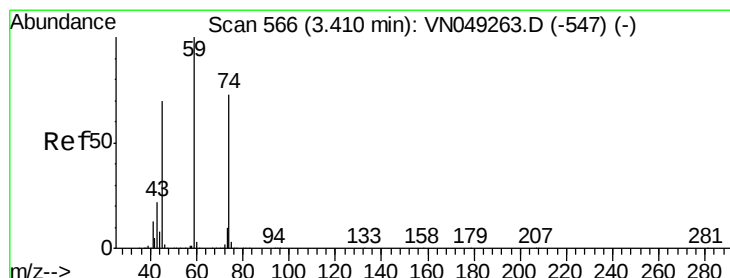
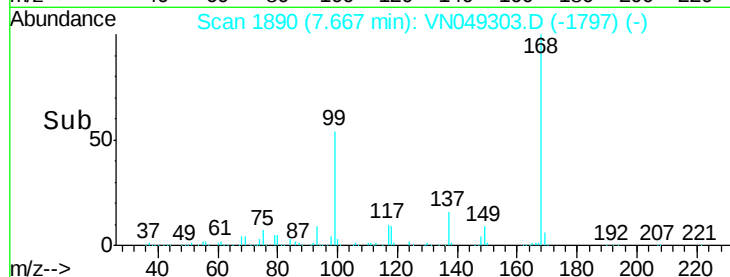
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.40 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049303.D

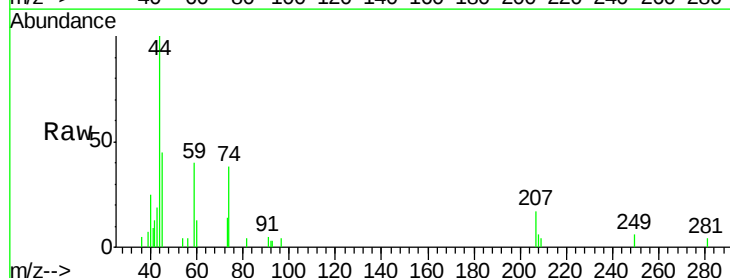
Acq: 16 Jun 2018 11:09

Tgt Ion: 74 Resp: 3767

Ion Ratio Lower Upper

74 100

45 85.8 51.9 155.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

2000

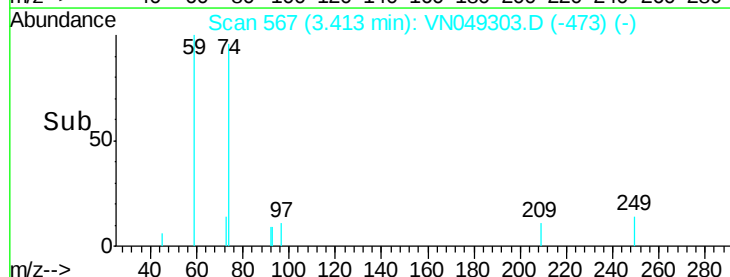
1500

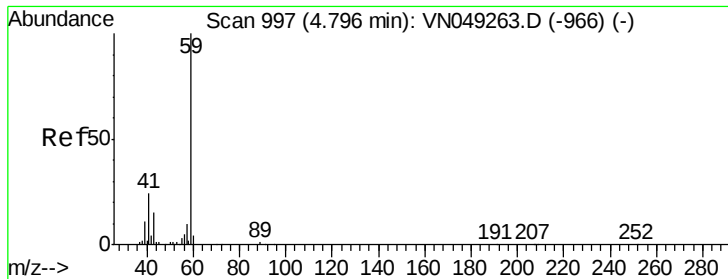
1000

500

0

Time-->

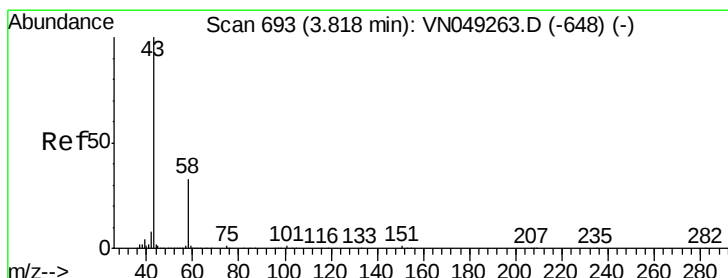
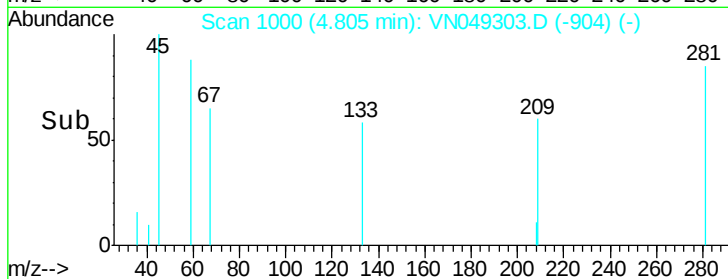
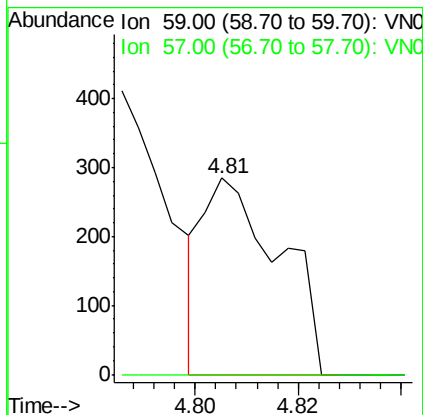
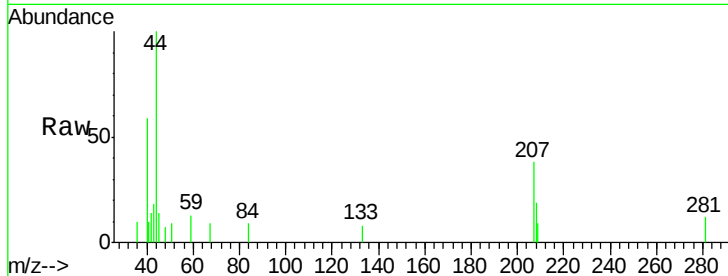




#11  
Tert butyl alcohol  
Concen: 0.28 ug/l  
RT: 4.81 min Scan# 1000  
Delta R.T. 0.01 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

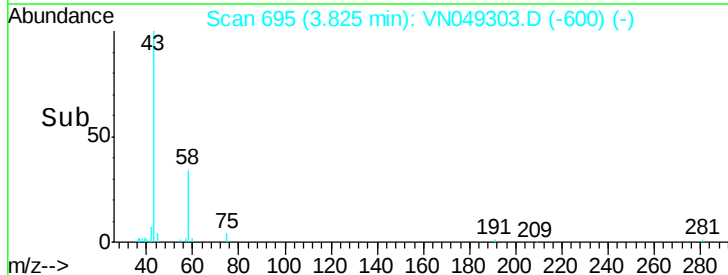
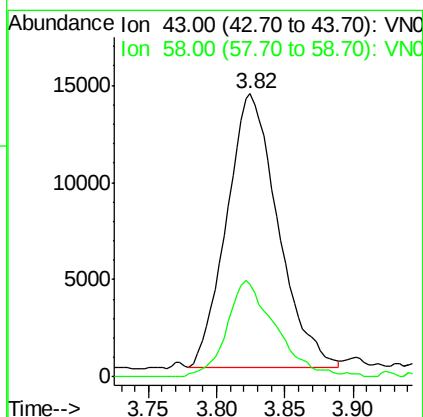
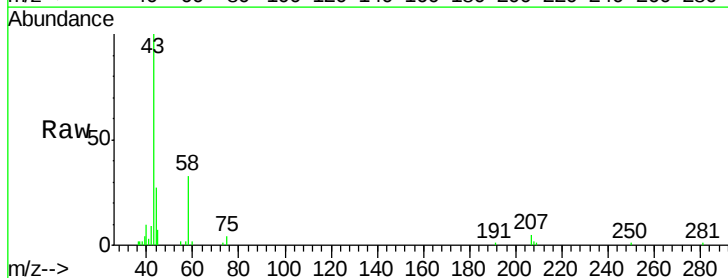
Instrument :  
MSVOA\_N  
ClientSampled :

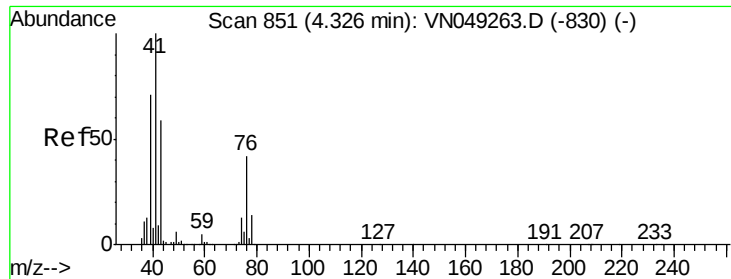
Tot Ion: 59 Resp: 290  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.6#



#16  
Acetone  
Concen: 8.48 ug/l  
RT: 3.82 min Scan# 695  
Delta R.T. 0.01 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion: 43 Resp: 36929  
Ion Ratio Lower Upper  
43 100  
58 32.9 22.4 33.6

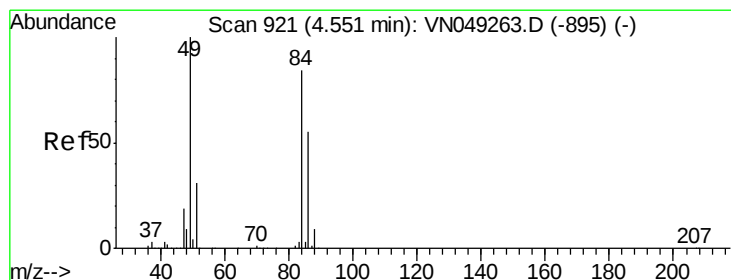
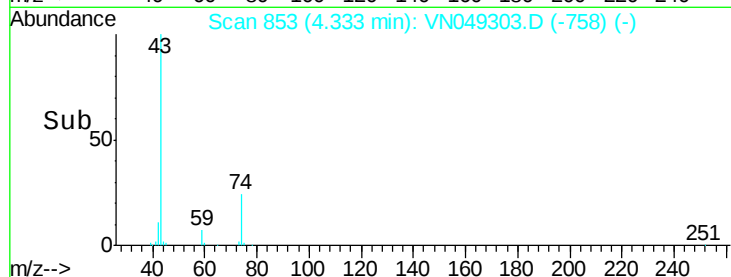
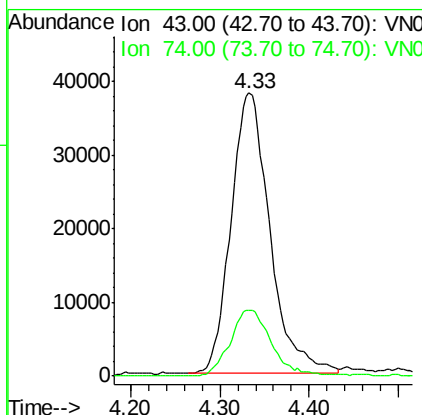
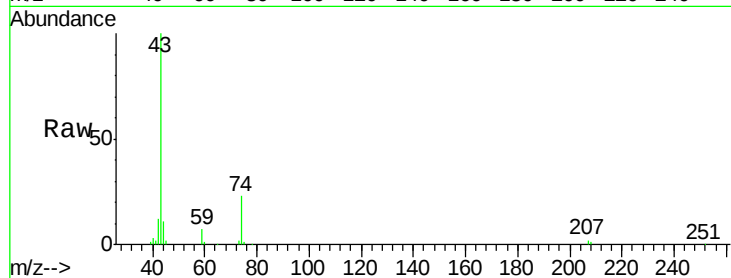




#18  
Methvl Acetate  
Concen: 8.72 ug/l  
RT: 4.33 min Scan# 853  
Delta R.T. 0.01 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

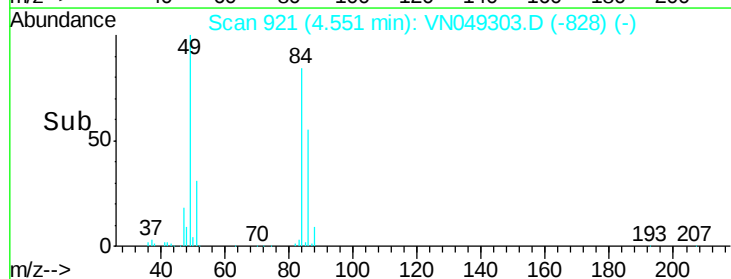
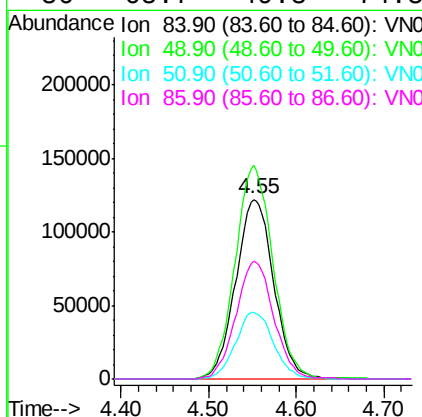
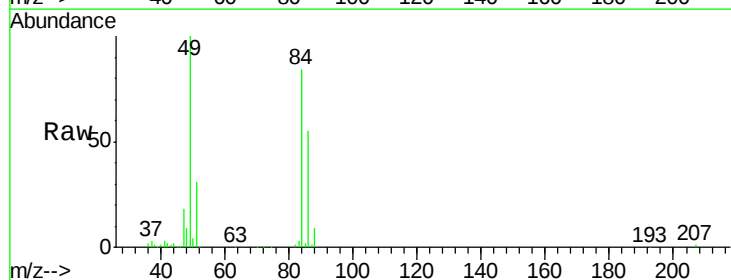
Instrument :  
MSVOA\_N  
ClientSampleId :

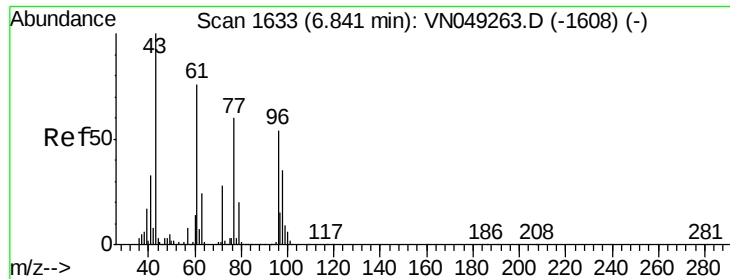
Tot Ion: 43 Resp: 115771  
Ion Ratio Lower Upper  
43 100  
74 25.0 17.4 26.0



#20  
Methylene Chloride  
Concen: 20.19 ug/l  
RT: 4.55 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion: 84 Resp: 367214  
Ion Ratio Lower Upper  
84 100  
49 118.8 106.9 160.3  
51 37.3 32.7 49.1  
86 65.7 49.8 74.8

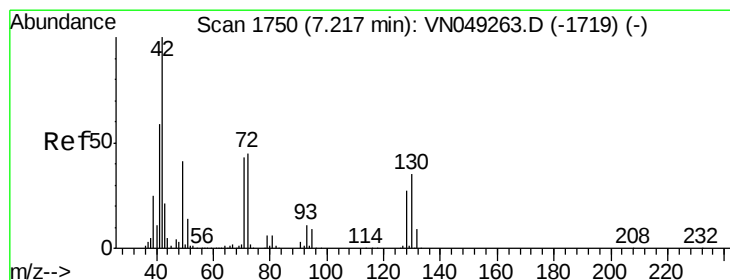
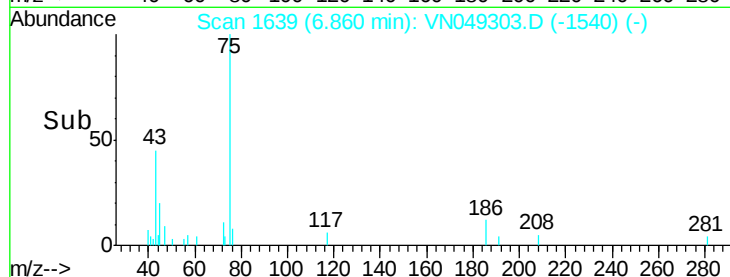
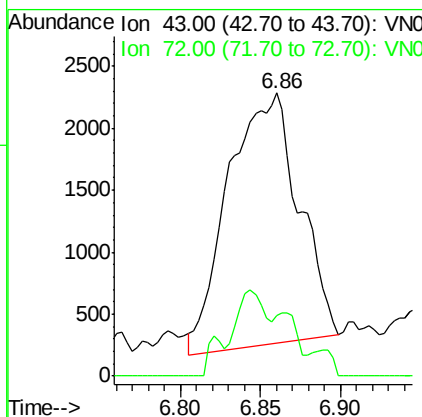
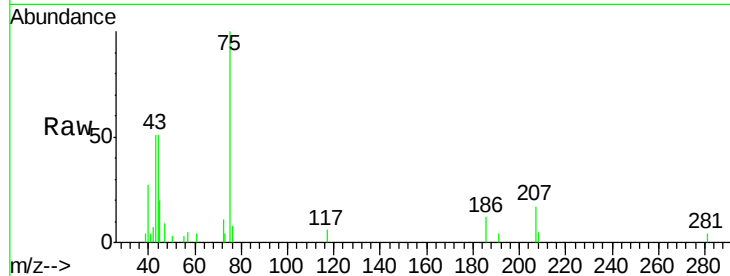




#25  
2-Butanone  
Concen: 1.06 ug/l  
RT: 6.86 min Scan# 1639  
Delta R.T. 0.02 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

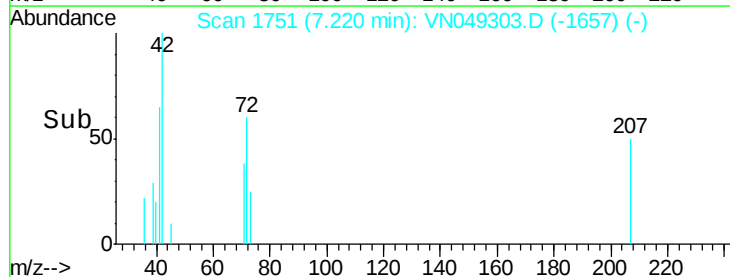
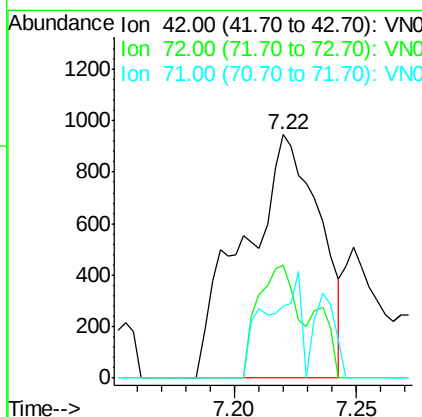
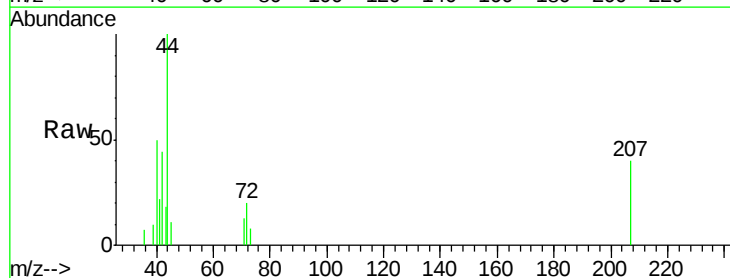
Instrument :  
MSVOA\_N  
ClientSampled :

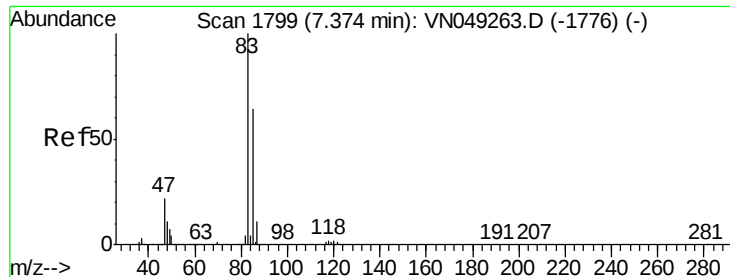
Tot Ion: 43 Resp: 6189  
Ion Ratio Lower Upper  
43 100  
72 25.0 20.2 30.2



#29  
Tetrahydrofuran  
Concen: 0.54 ug/l  
RT: 7.22 min Scan# 1751  
Delta R.T. 0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion: 42 Resp: 2041  
Ion Ratio Lower Upper  
42 100  
72 24.3 32.2 48.4#  
71 18.7 30.5 45.7#

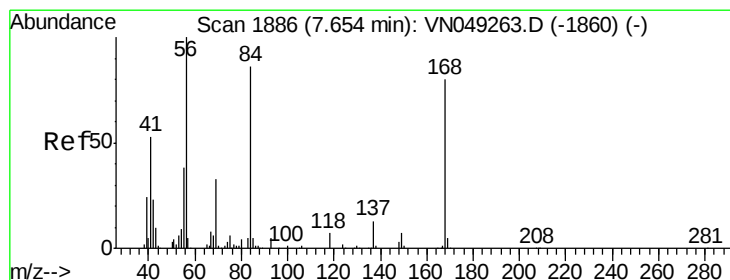
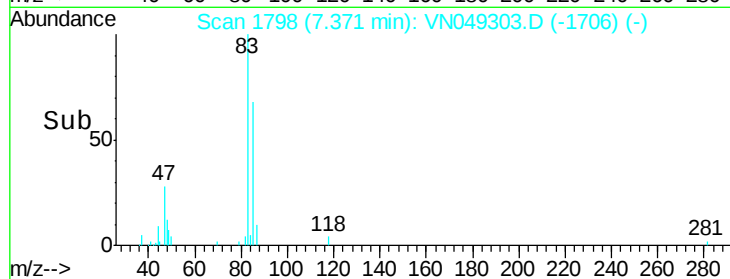
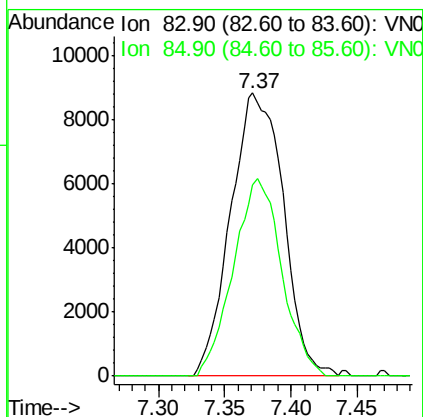
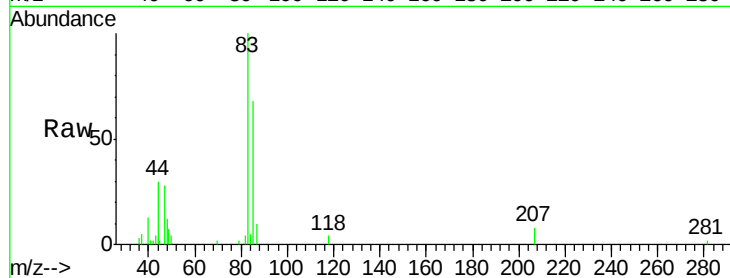




#30  
Chloroform  
Concen: 0.79 ug/l  
RT: 7.37 min Scan# 1798  
Delta R.T. -0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

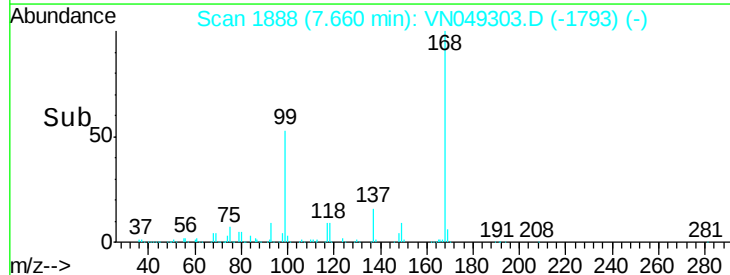
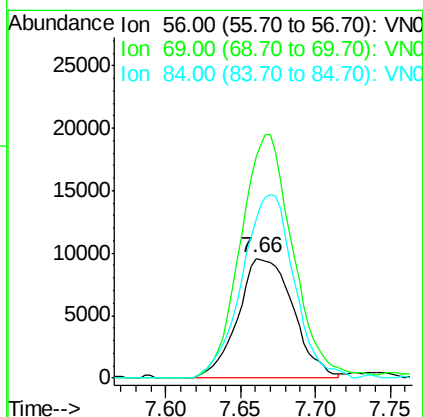
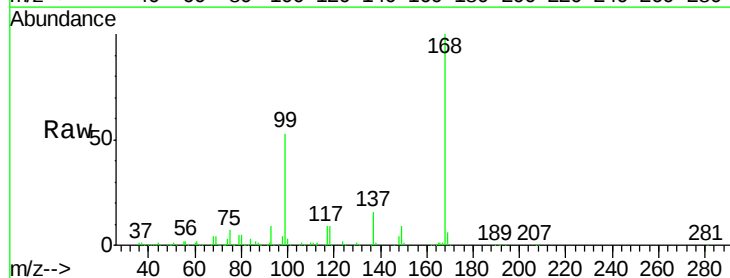
Instrument :  
MSVOA\_N  
ClientSampleId :

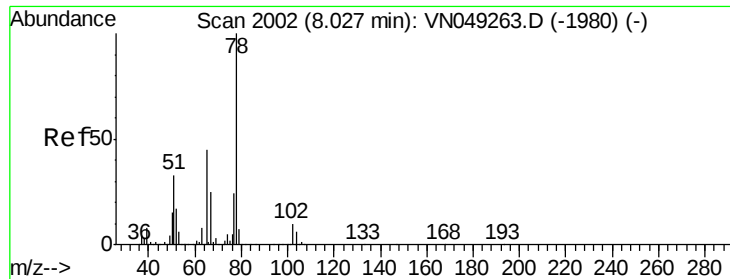
Tot Ion: 83 Resp: 24460  
Ion Ratio Lower Upper  
83 100  
85 67.5 51.7 77.5



#31  
Cyclohexane  
Concen: 0.76 ug/l  
RT: 7.66 min Scan# 1888  
Delta R.T. 0.01 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion: 56 Resp: 24633  
Ion Ratio Lower Upper  
56 100  
69 185.1 25.0 37.4#  
84 133.1 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 48.86 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

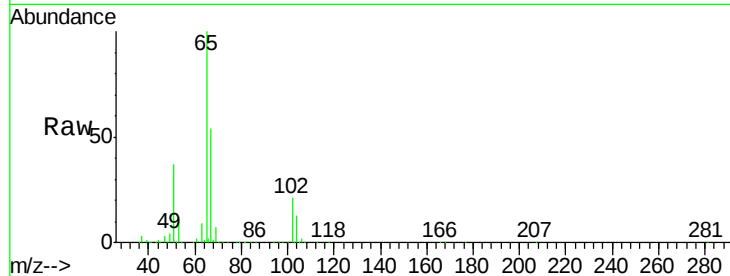
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 65 Resp: 876218

Ion Ratio Lower Upper

65 100

67 53.3 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049303.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049303.D (-1909) (-)

8.03

400000

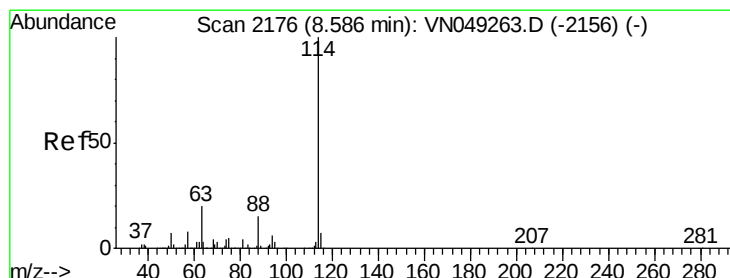
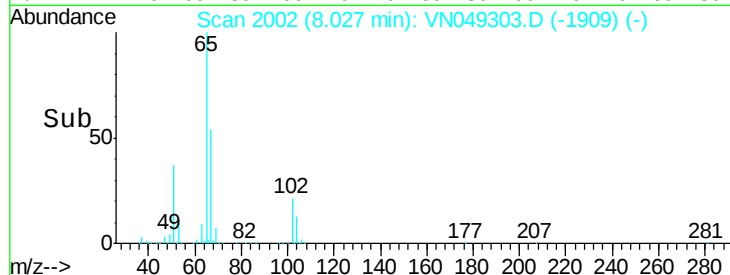
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

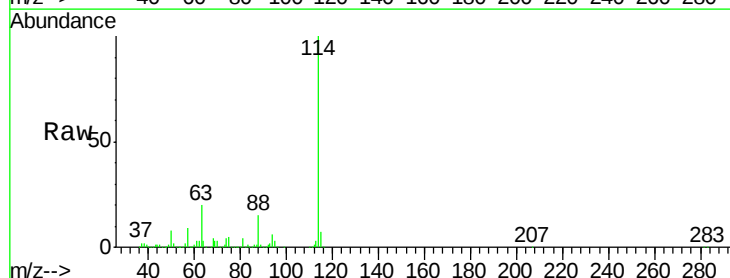
Tgt Ion: 114 Resp: 2146703

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

88 15.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN049303.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049303.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049303.D (-2083) (-)

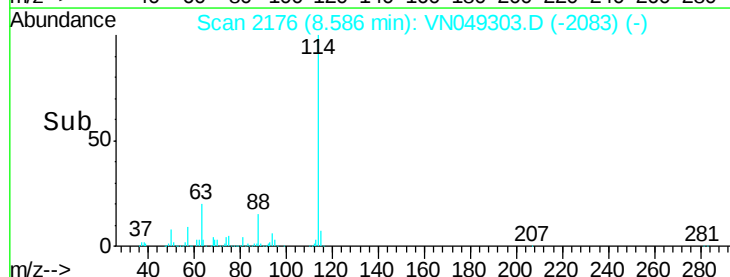
8.59

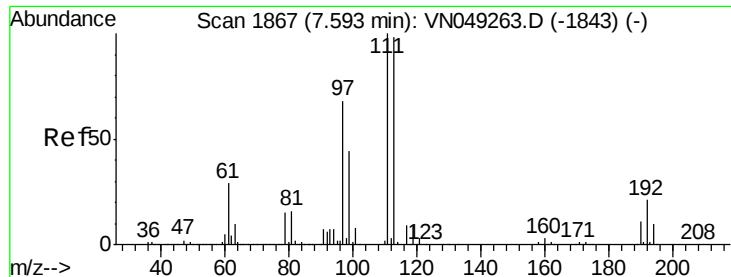
1000000

500000

0

Time-->

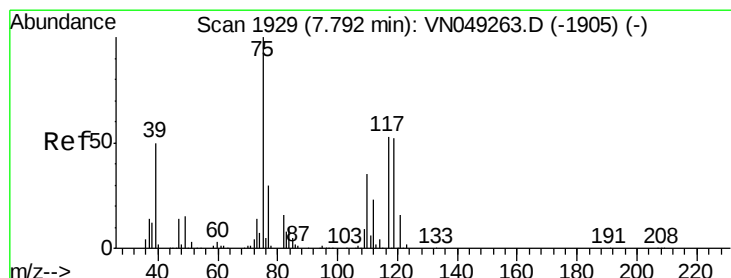
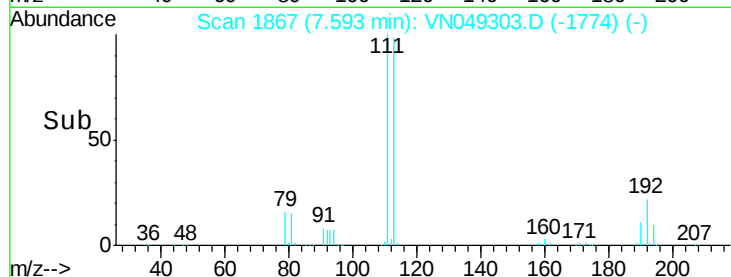
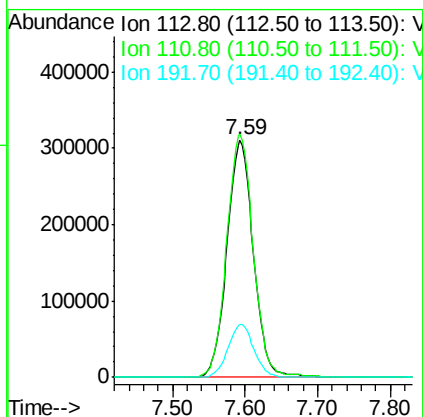
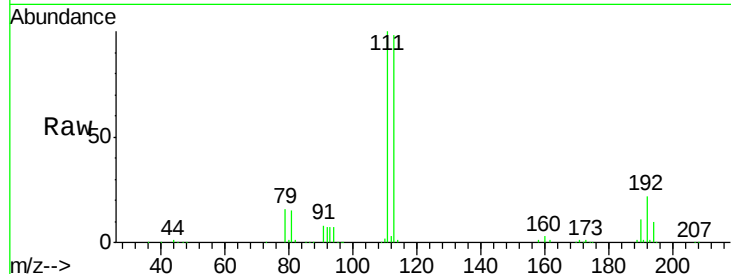




#35  
Dibromofluoromethane  
Concen: 45.26 ug/l  
RT: 7.59 min Scan# 1867  
Delta R.T. -0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

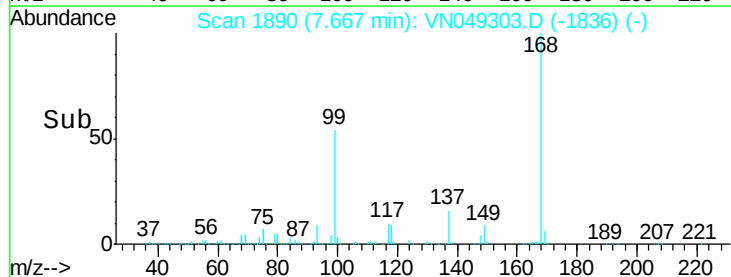
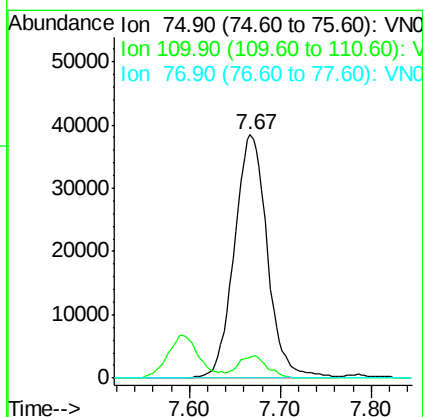
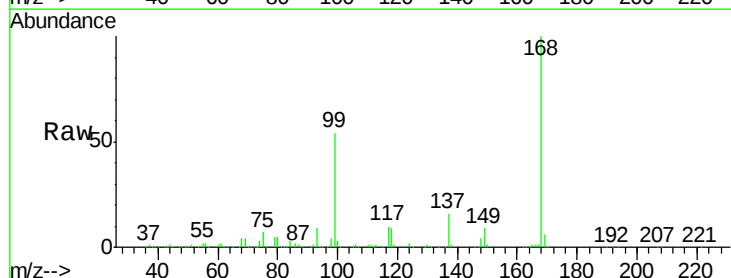
Instrument :  
MSVOA\_N  
ClientSampleId :

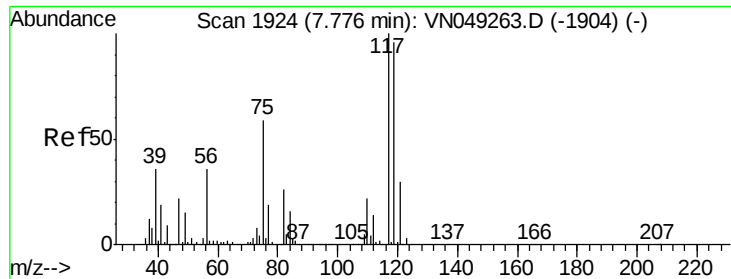
Tot Ion:113 Resp: 786124  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.4 123.6  
192 22.1 15.0 22.6



#36  
1,1-Dichloropropene  
Concen: 3.94 ug/l  
RT: 7.67 min Scan# 1890  
Delta R.T. -0.13 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion: 75 Resp: 96860  
Ion Ratio Lower Upper  
75 100  
110 8.0 17.0 50.9#  
77 0.0 24.4 36.6#

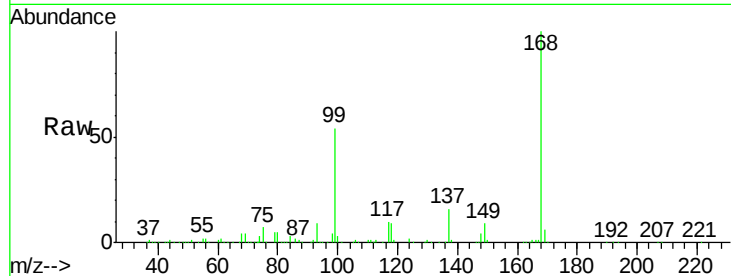




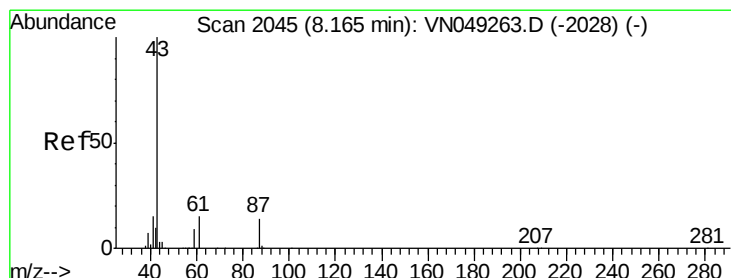
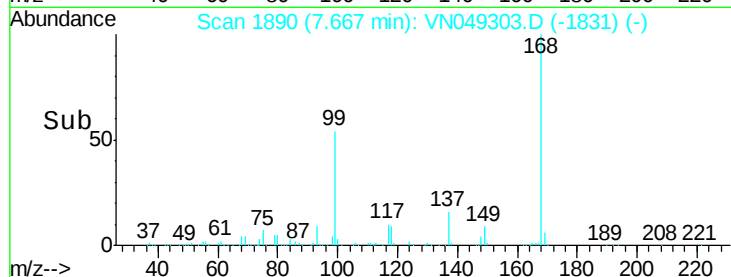
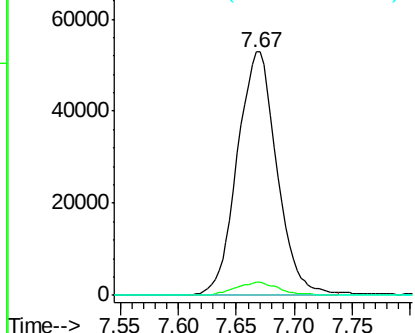
#38  
Carbon Tetrachloride  
Concen: 4.95 ug/l  
RT: 7.67 min Scan# 1890  
Delta R.T. -0.11 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 126085  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.6 113.4#  
121 0.0 24.7 37.1#

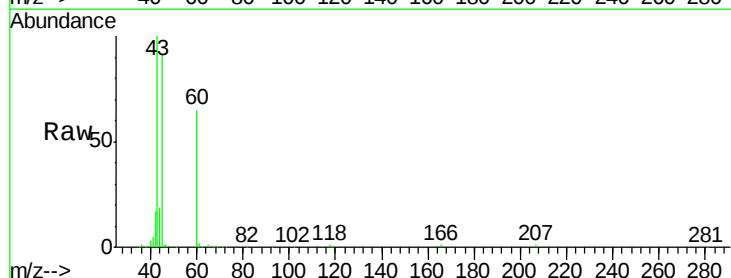


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

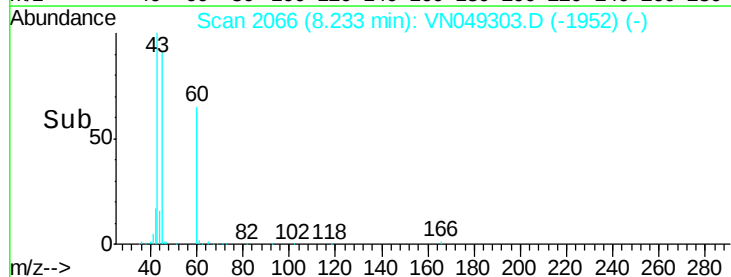
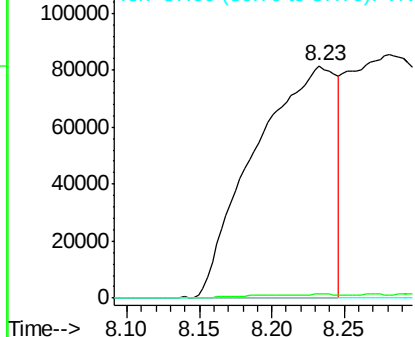


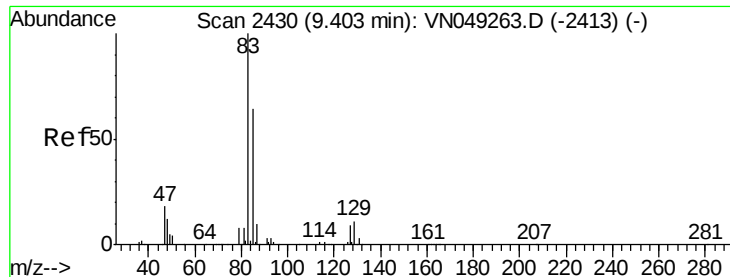
#43  
Isopropyl Acetate  
Concen: 12.33 ug/l  
RT: 8.23 min Scan# 2066  
Delta R.T. 0.07 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion: 43 Resp: 314985  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.2 21.4#  
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 61.00 (60.70 to 61.70): VNO  
Ion 87.00 (86.70 to 87.70): VNO





#47

Bromodichloromethane

Concen: 0.39 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :  
MSVOA\_N  
ClientSampled :

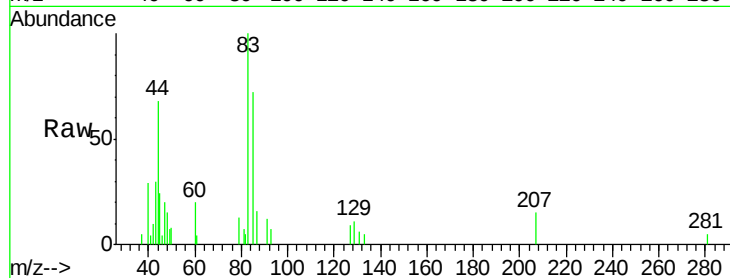
Tot Ion: 83 Resp: 9812

Ion Ratio Lower Upper

83 100

85 72.4 49.4 74.0

127 9.0 6.3 9.5

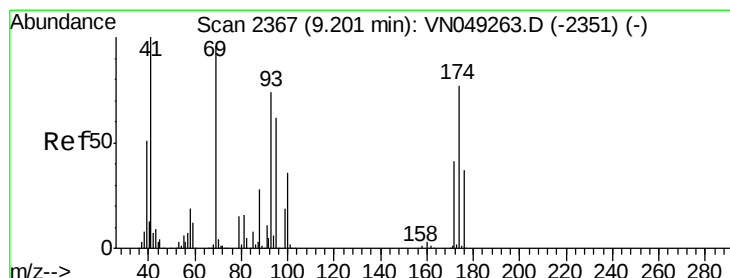
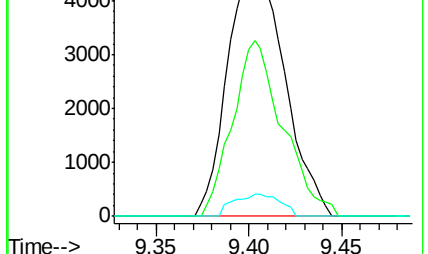
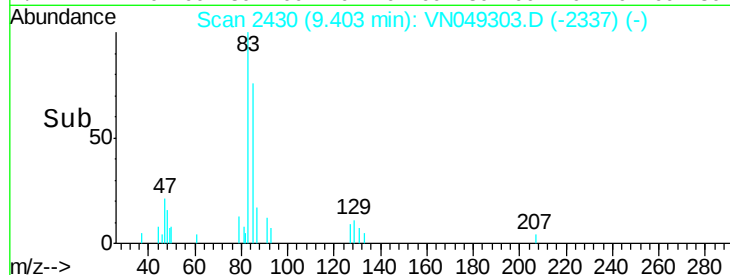


Abundance Ion 82.90 (82.60 to 83.60): VN049303.D (-2337) (-)

Ion 84.90 (84.60 to 85.60): VN049303.D (-2337) (-)

Ion 126.80 (126.50 to 127.50): VN049303.D (-2337) (-)

Time-->



#49

1,4-Dioxane

Concen: 2.11 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

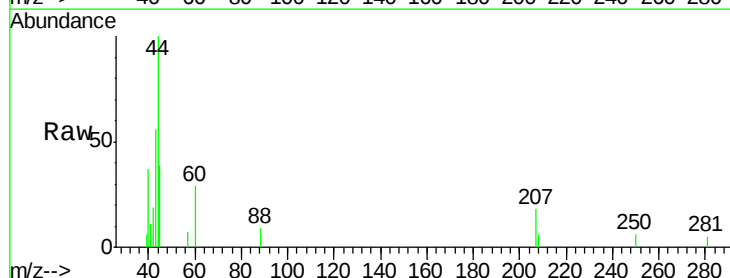
Tgt Ion: 88 Resp: 350

Ion Ratio Lower Upper

88 100

43 77.4 30.9 46.3#

58 40.9 58.9 88.3#

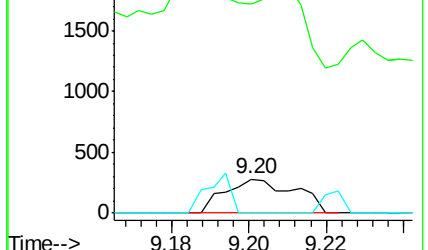
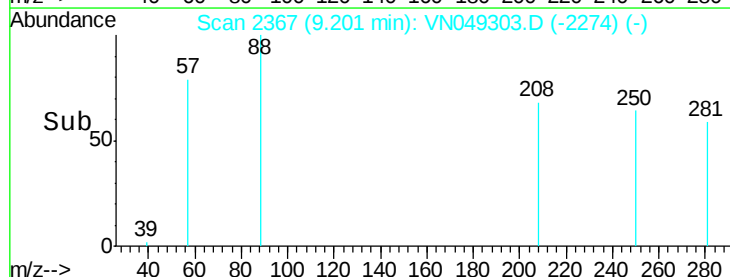


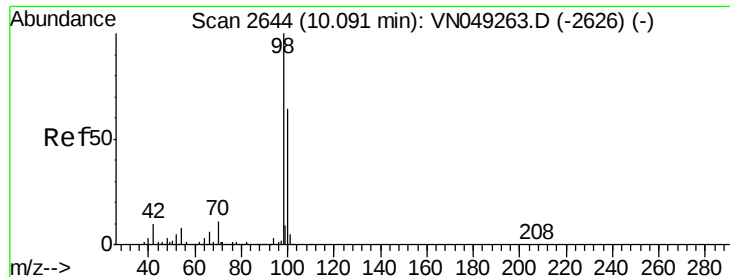
Abundance Ion 88.00 (87.70 to 88.70): VN049303.D (-2274) (-)

Ion 43.00 (42.70 to 43.70): VN049303.D (-2274) (-)

Ion 58.00 (57.70 to 58.70): VN049303.D (-2274) (-)

Time-->

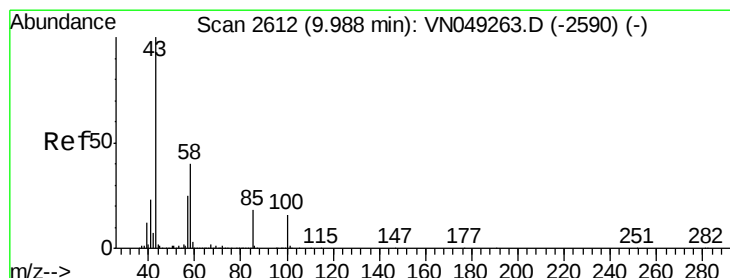
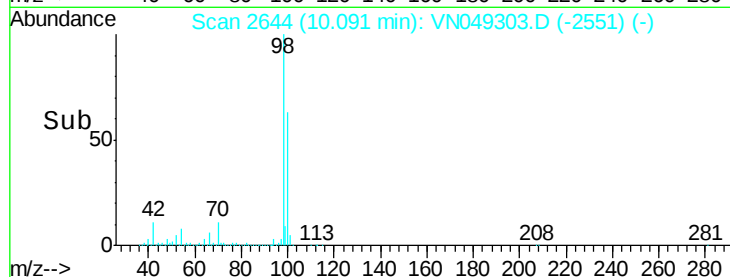
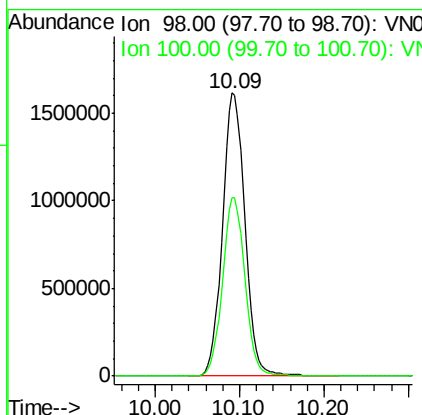
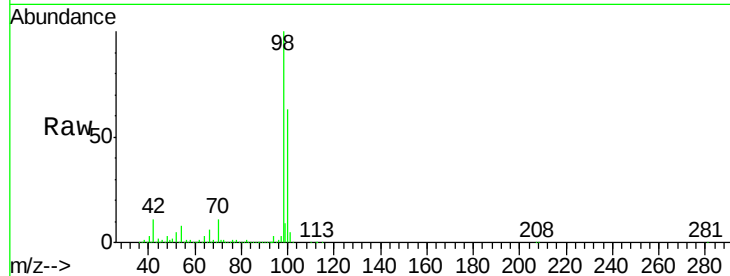




#50  
Toluene-d8  
Concen: 45.19 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

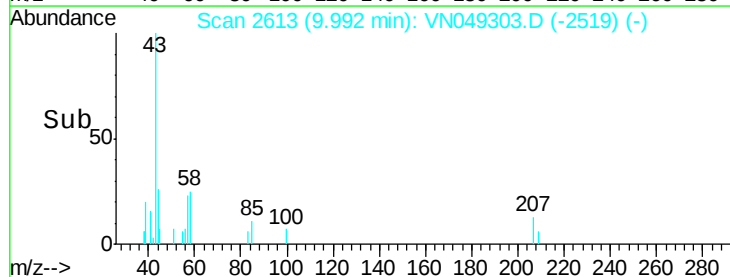
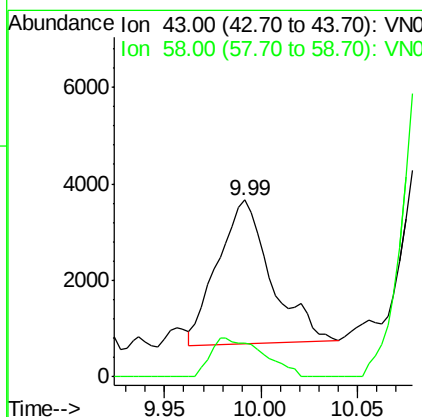
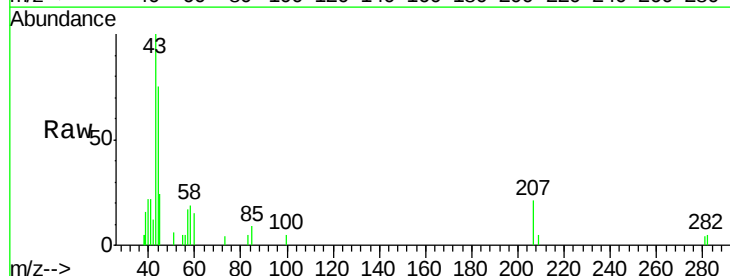
Instrument :  
MSVOA\_N  
ClientSampleId :

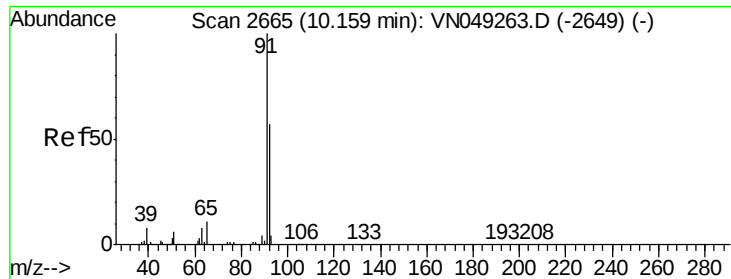
Tot Ion: 98 Resp: 2988169  
Ion Ratio Lower Upper  
98 100  
100 63.0 49.8 74.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.42 ug/l  
RT: 9.99 min Scan# 2613  
Delta R.T. 0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion: 43 Resp: 5689  
Ion Ratio Lower Upper  
43 100  
58 27.0 29.0 43.6#





#52

Toluene

Concen: 0.36 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

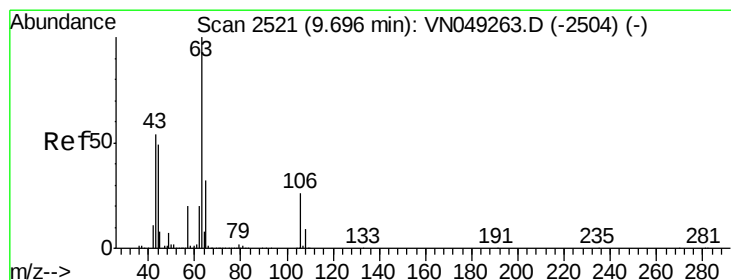
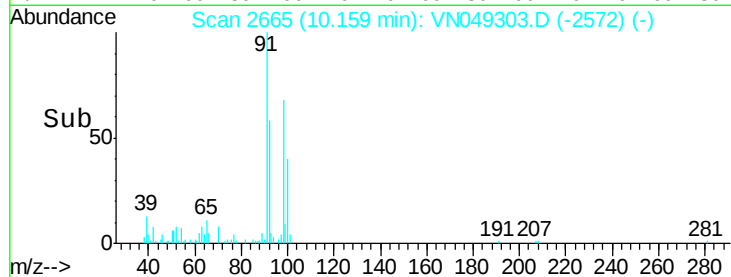
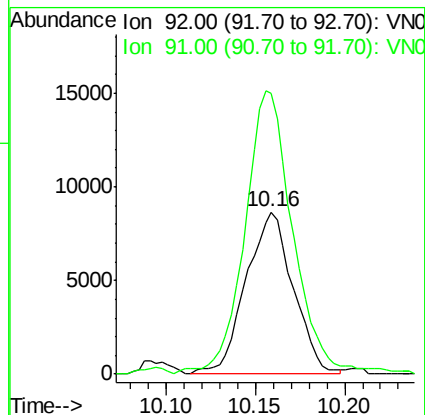
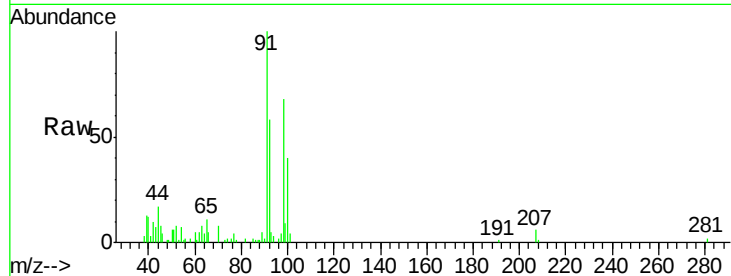
ClientSampled :

Tot Ion: 92 Resp: 16034

Ion Ratio Lower Upper

92 100

91 178.2 143.4 215.2



#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.82 min Scan# 2561

Delta R.T. 0.13 min

Lab File: VN049303.D

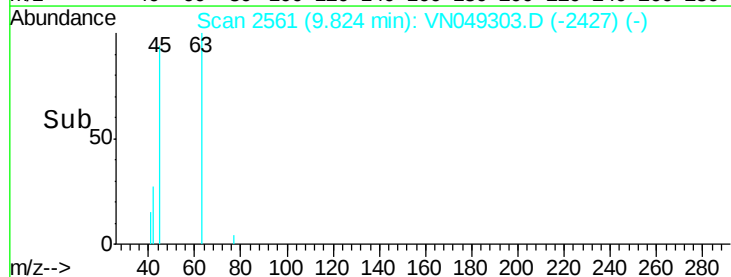
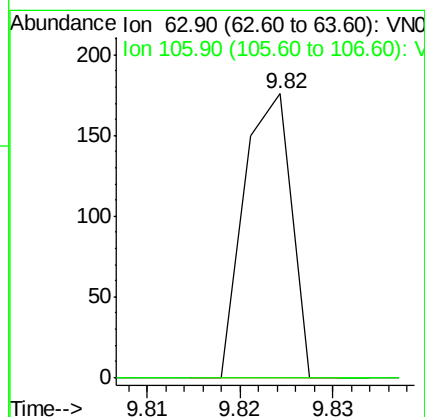
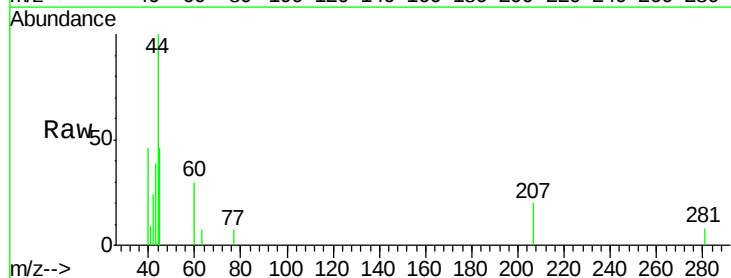
Acq: 16 Jun 2018 11:09

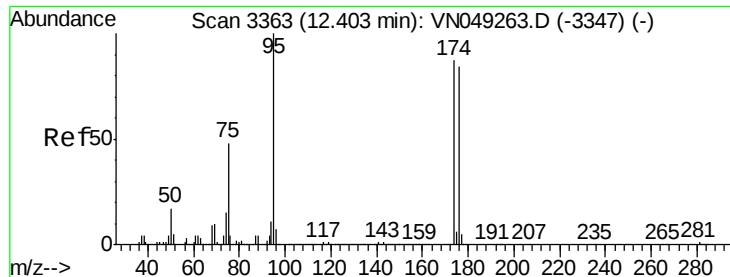
Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#





#62

4-Bromofluorobenzene

Concen: 36.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

ClientSampleId :

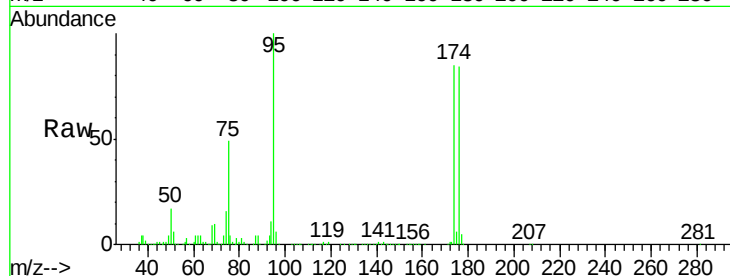
Tot Ion: 95 Resp: 795975

Ion Ratio Lower Upper

95 100

174 87.4 0.0 165.6

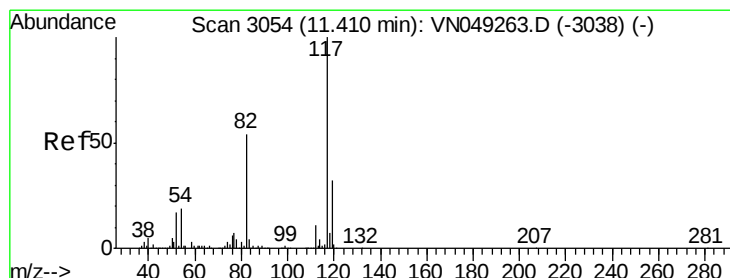
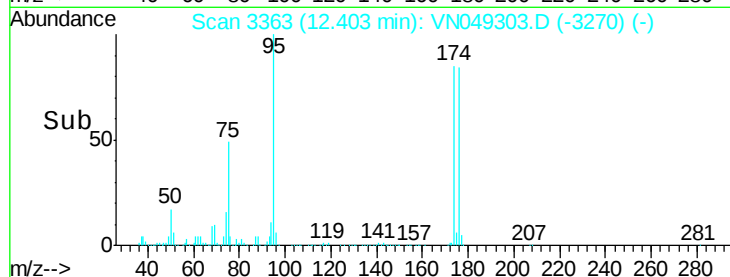
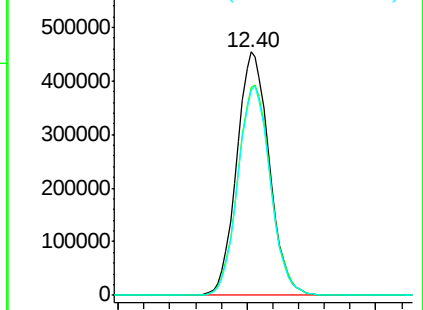
176 85.6 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049303.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049303.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049303.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

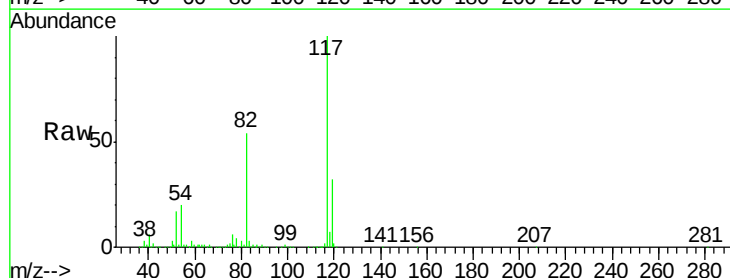
Tgt Ion: 117 Resp: 1816353

Ion Ratio Lower Upper

117 100

82 53.9 45.9 68.9

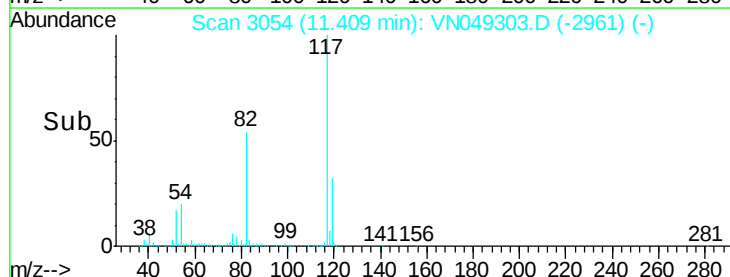
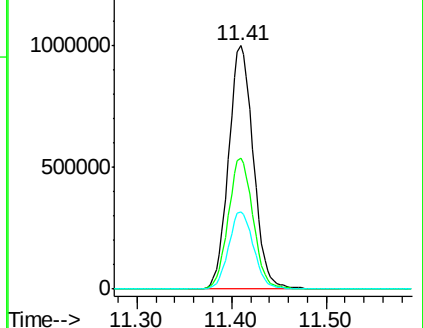
119 31.9 25.5 38.3

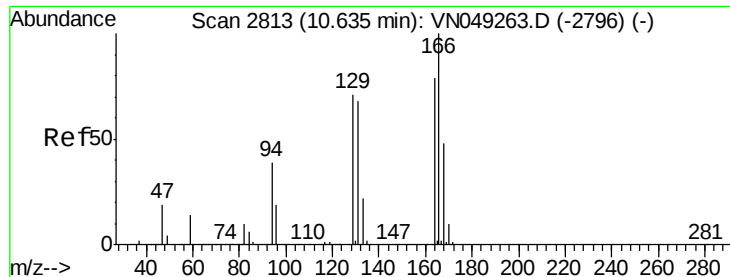


Abundance Ion 116.90 (116.60 to 117.60): VN049303.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049303.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049303.D (-2961) (-)





#64

Tetrachloroethene

Concen: 0.22 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion:164 Resp: 4129

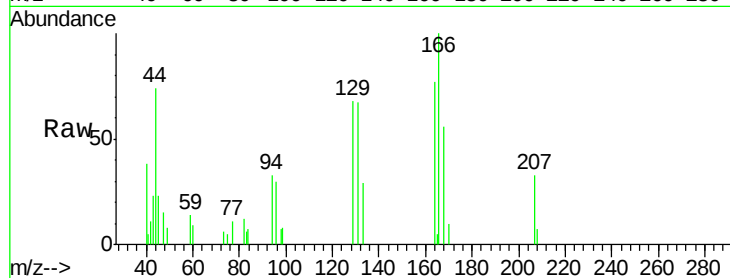
Ion Ratio Lower Upper

164 100

166 129.2 101.4 152.2

129 88.3 74.1 111.1

131 87.2 73.7 110.5

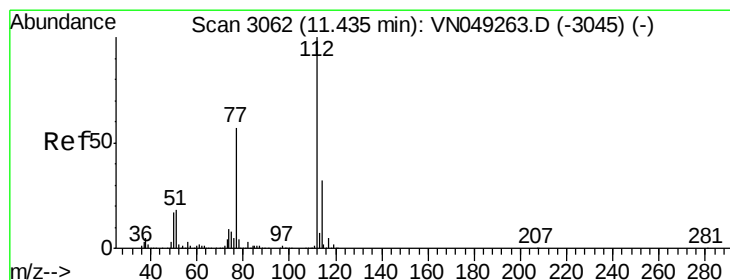
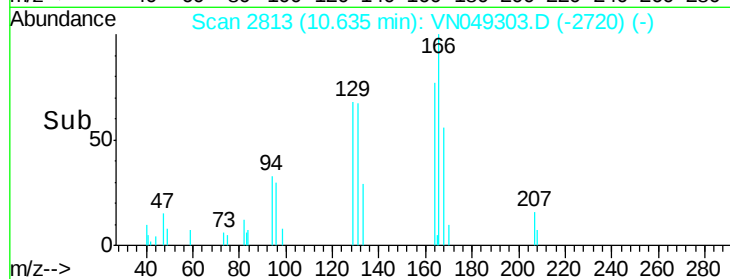
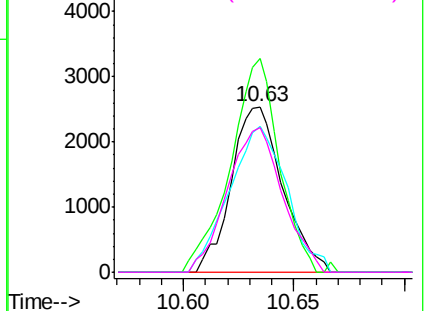


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.39 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN049303.D

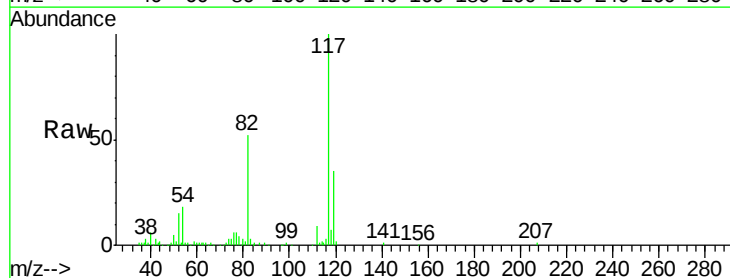
Acq: 16 Jun 2018 11:09

Tgt Ion:112 Resp: 18432

Ion Ratio Lower Upper

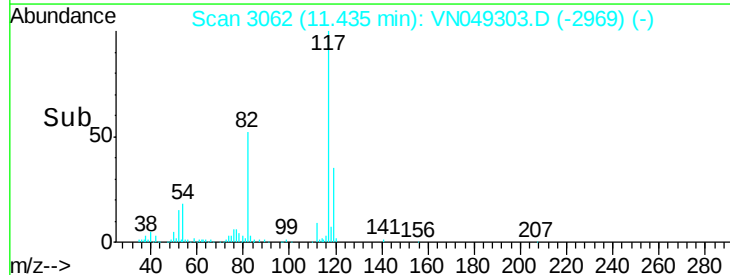
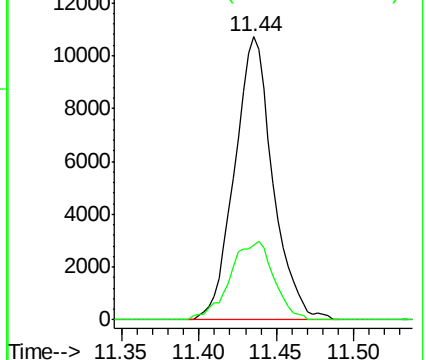
112 100

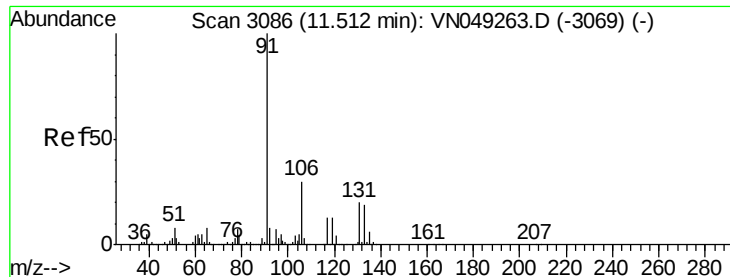
114 26.4 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 0.87 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

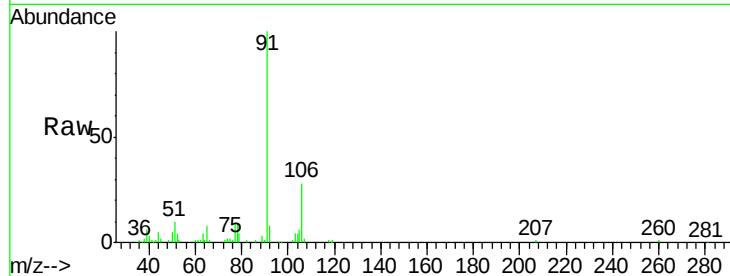
ClientSampled :

Tot Ion: 91 Resp: 67351

Ion Ratio Lower Upper

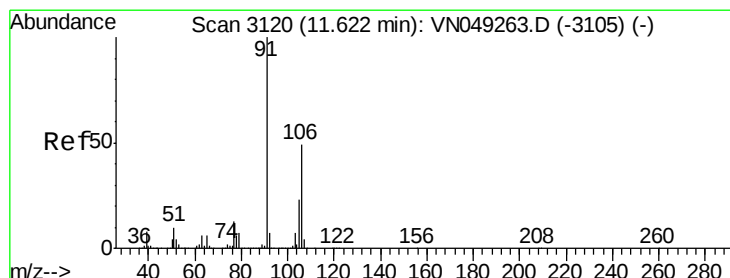
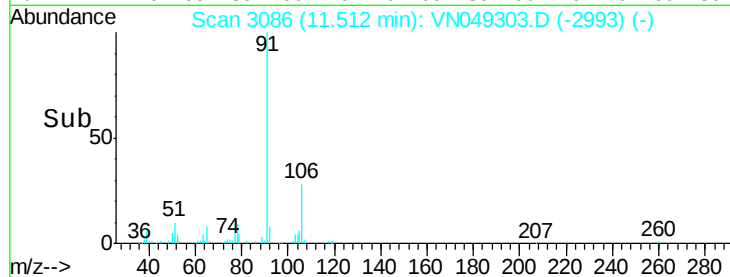
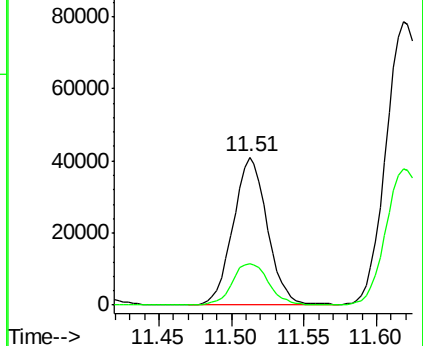
91 100

106 27.6 23.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VN049263.D (-3069) (-)

Ion 106.00 (105.70 to 106.70): VN049263.D (-3069) (-)



#68

m/p-Xylenes

Concen: 2.48 ug/l

RT: 11.62 min Scan# 3119

Delta R.T. -0.00 min

Lab File: VN049303.D

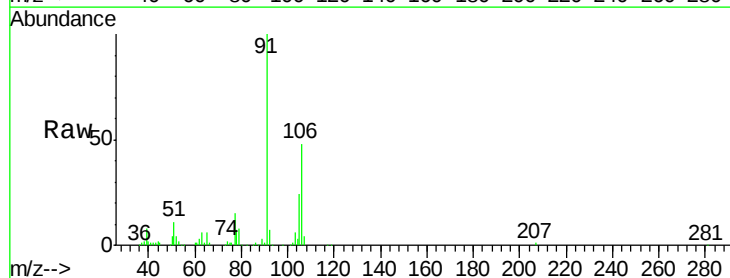
Acq: 16 Jun 2018 11:09

Tgt Ion: 106 Resp: 72298

Ion Ratio Lower Upper

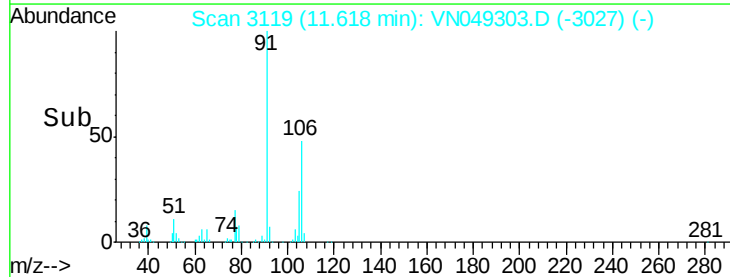
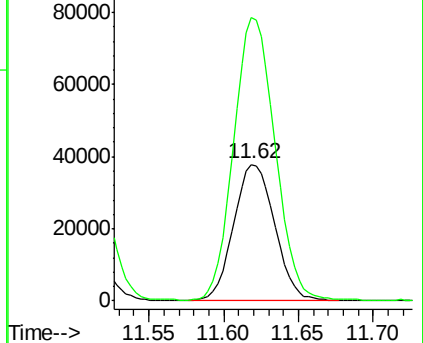
106 100

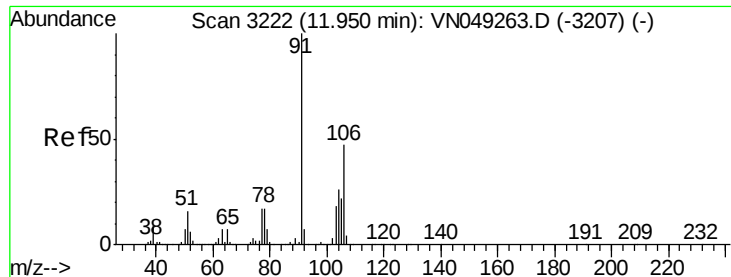
91 207.7 167.3 250.9



Abundance Ion 106.00 (105.70 to 106.70): VN049263.D (-3105) (-)

Ion 91.00 (90.70 to 91.70): VN049263.D (-3105) (-)

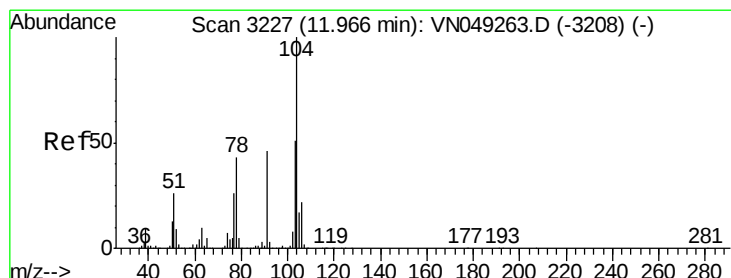
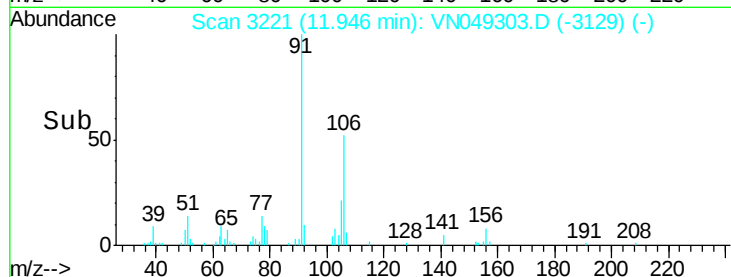
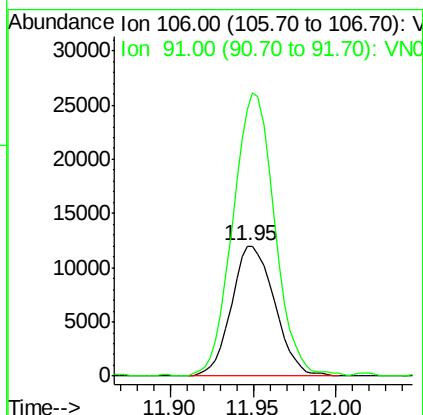
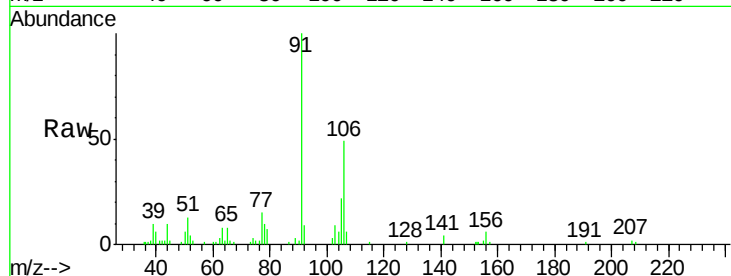




#69  
o-Xylene  
Concen: 0.78 ug/l  
RT: 11.95 min Scan# 3221  
Delta R.T. -0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

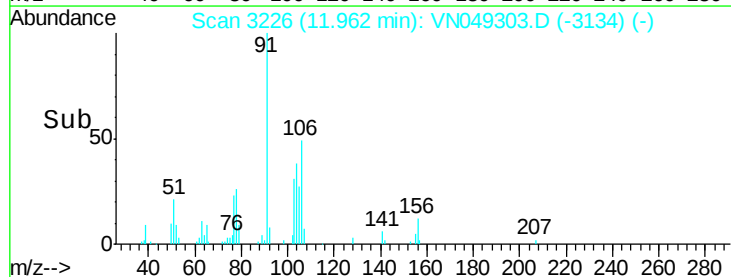
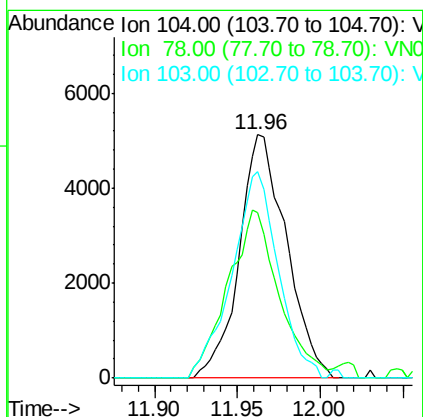
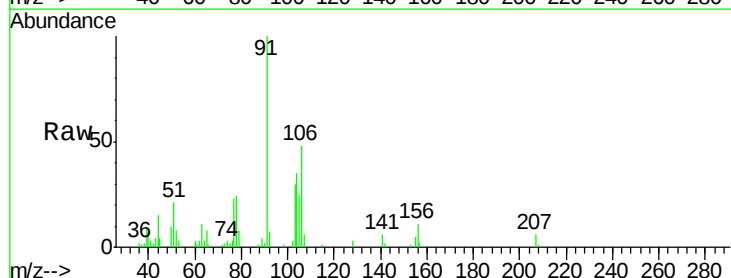
Instrument :  
MSVOA\_N  
ClientSampled :

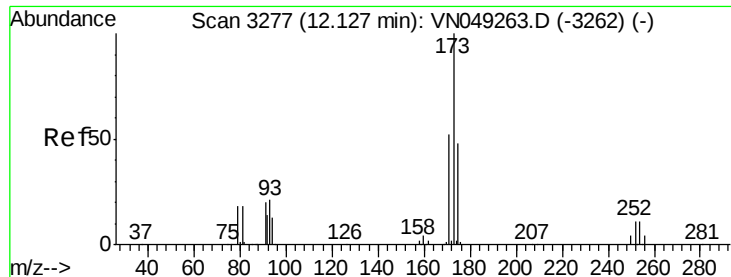
Tot Ion:106 Resp: 21763  
Ion Ratio Lower Upper  
106 100  
91 210.7 111.0 333.0



#70  
Styrene  
Concen: 0.23 ug/l  
RT: 11.96 min Scan# 3226  
Delta R.T. -0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion:104 Resp: 10162  
Ion Ratio Lower Upper  
104 100  
78 74.4 41.6 62.4#  
103 83.0 45.4 68.2#





#71

Bromoform

Concen: 0.53 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

ClientSampled :

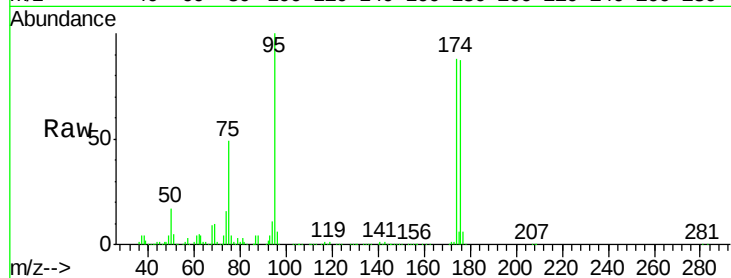
Tot Ion:173 Resp: 6082

Ion Ratio Lower Upper

173 100

175 644.8 24.5 73.5#

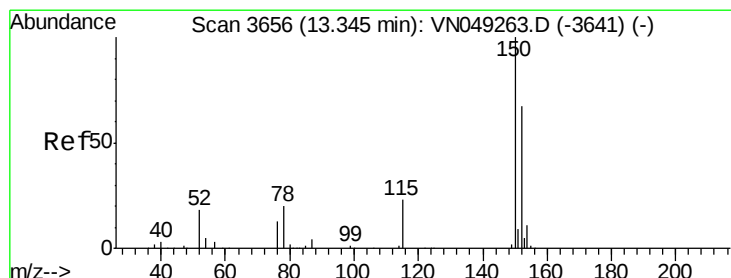
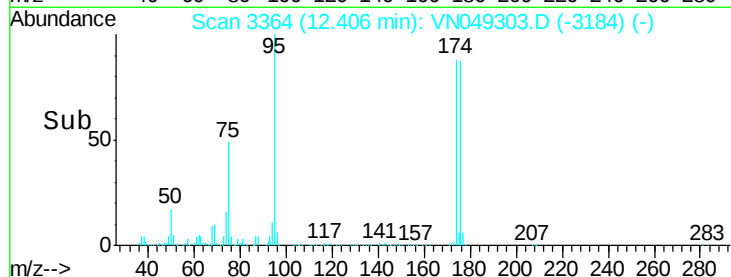
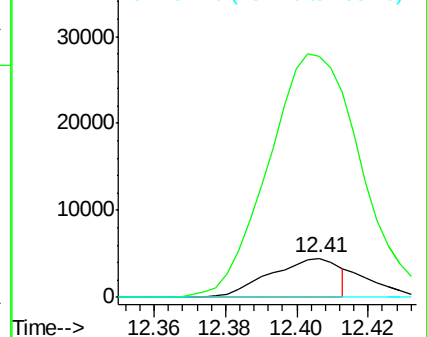
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

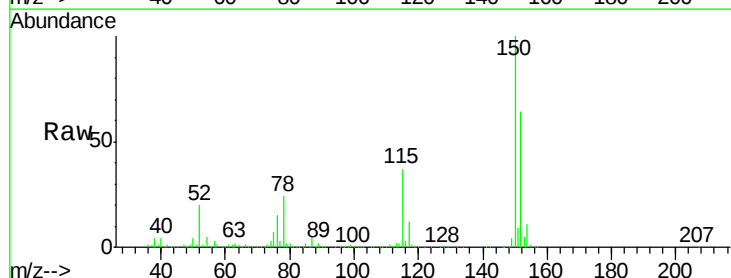
Tgt Ion:152 Resp: 568519

Ion Ratio Lower Upper

152 100

115 57.0 28.7 86.1

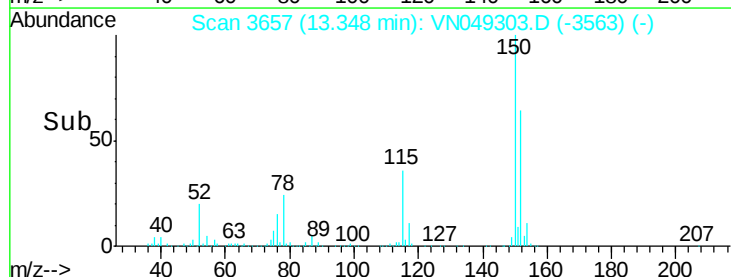
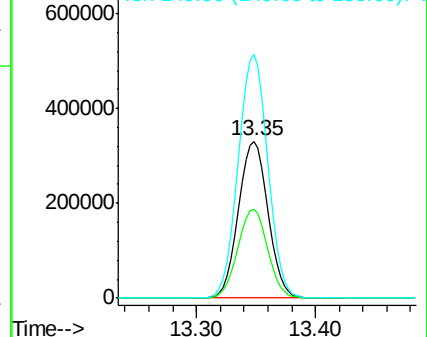
150 155.8 0.0 351.0

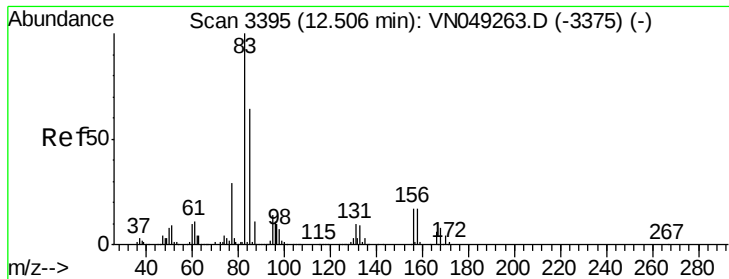


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

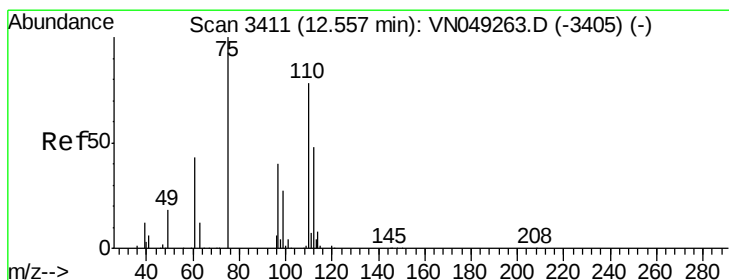
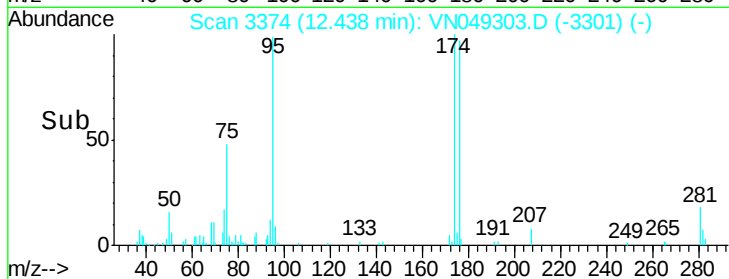
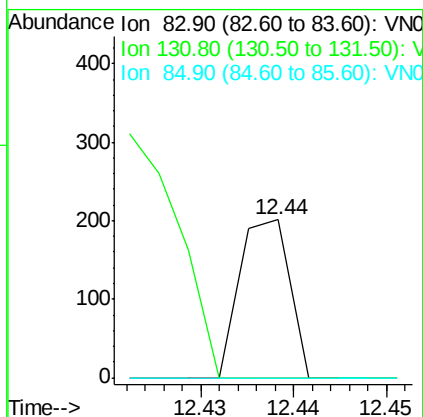
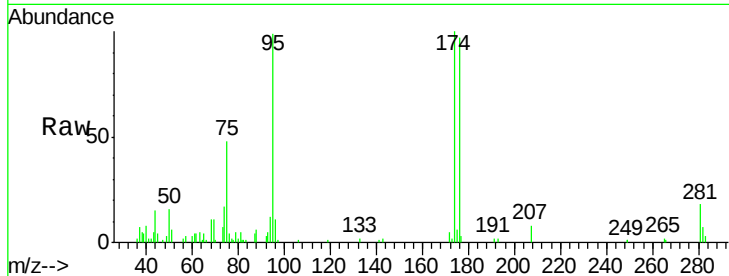




#75  
 1,1,2,2-Tetrachloroethane  
 Concen: Below Cal  
 RT: 12.44 min Scan# 3374  
 Delta R.T. -0.07 min  
 Lab File: VN049303.D  
 Acq: 16 Jun 2018 11:09

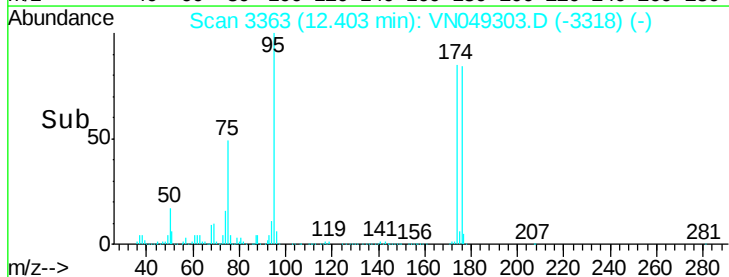
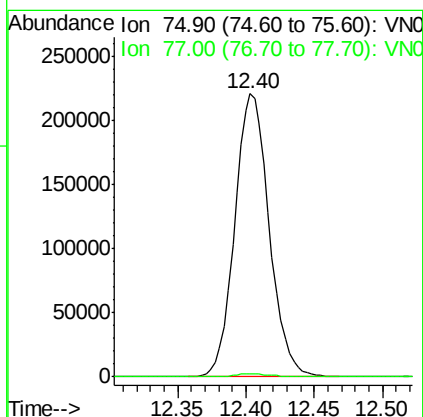
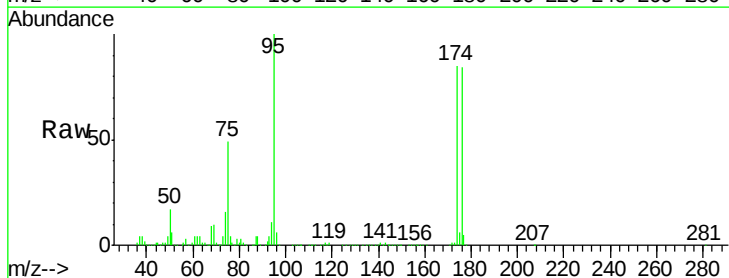
Instrument :  
 MSVOA\_N  
 ClientSampled :

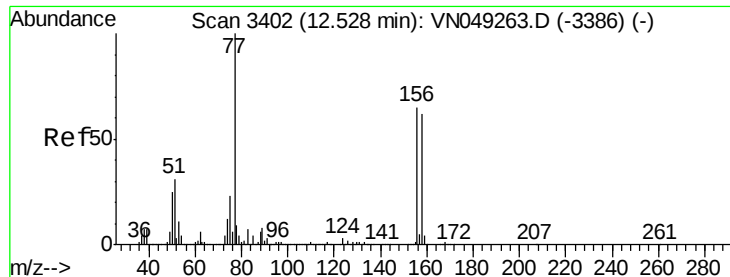
Tot Ion: 83 Resp: 75  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 5.0 15.0#  
 85 0.0 32.0 96.0#



#76  
 1,2,3-Trichloropropane  
 Concen: 39.73 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. -0.15 min  
 Lab File: VN049303.D  
 Acq: 16 Jun 2018 11:09

Tgt Ion: 75 Resp: 385364  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#





#77

Bromobenzene

Concen: 0.46 ug/l

RT: 12.54 min Scan# 3407

Delta R.T. 0.02 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

ClientSampleId :

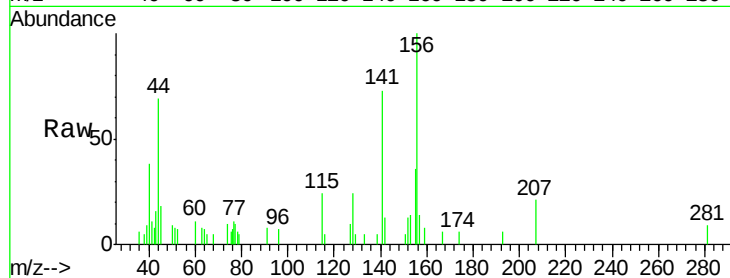
Tot Ion:156 Resp: 6043

Ion Ratio Lower Upper

156 100

77 10.3 100.8 302.4#

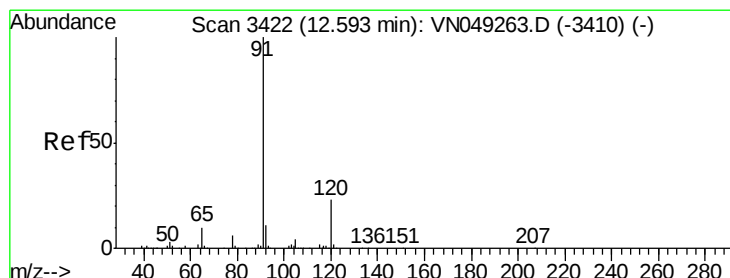
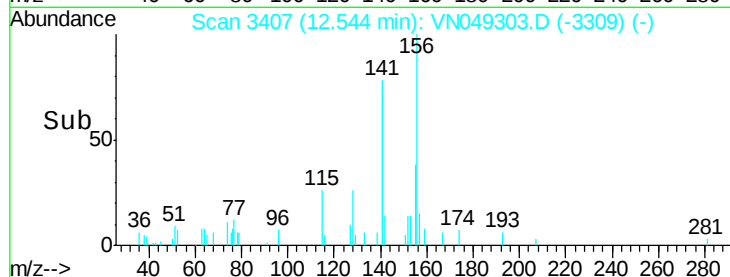
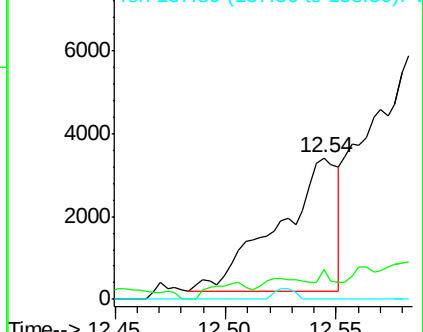
158 2.6 49.3 147.9#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.26 ug/l

RT: 12.60 min Scan# 3423

Delta R.T. 0.00 min

Lab File: VN049303.D

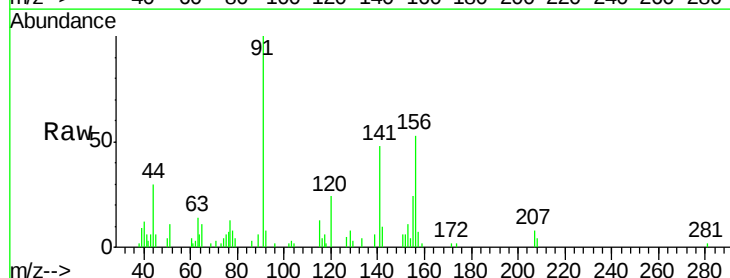
Acq: 16 Jun 2018 11:09

Tgt Ion: 91 Resp: 14428

Ion Ratio Lower Upper

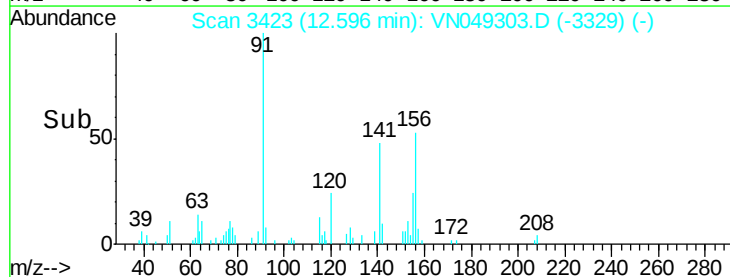
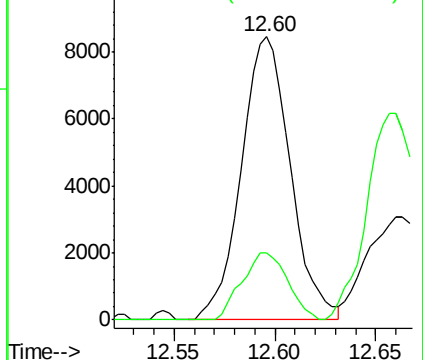
91 100

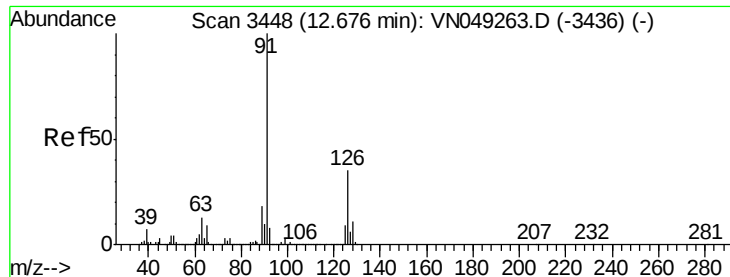
120 22.1 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

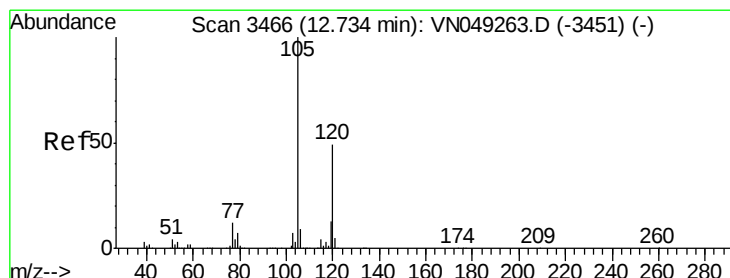
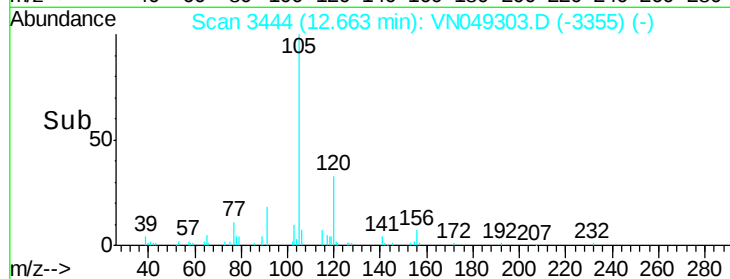
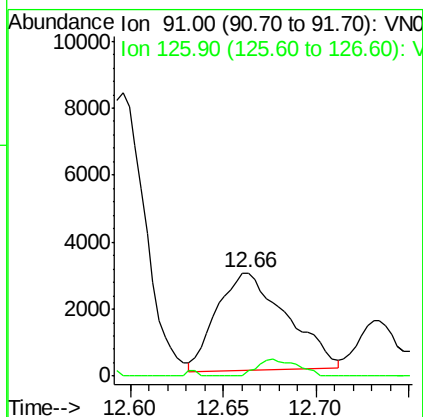
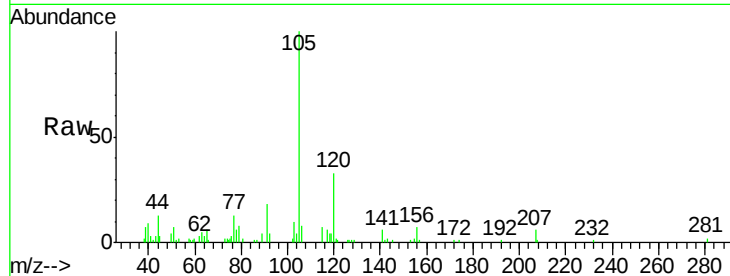




#79  
 2-Chlorotoluene  
 Concen: 0.22 ug/l  
 RT: 12.66 min Scan# 3444  
 Delta R.T. -0.01 min  
 Lab File: VN049303.D  
 Acq: 16 Jun 2018 11:09

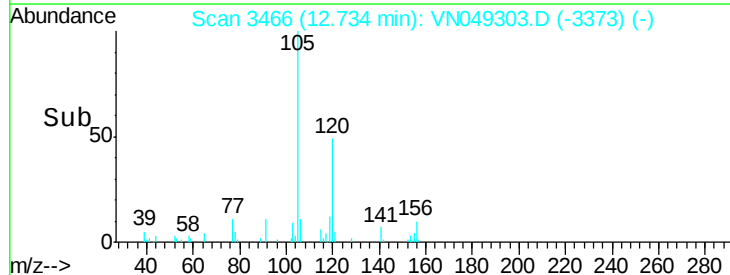
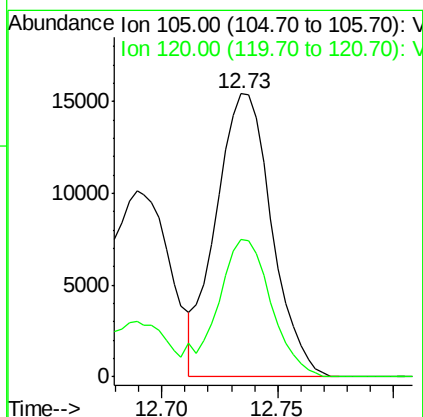
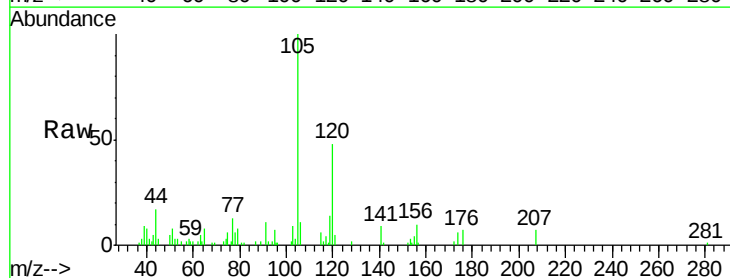
Instrument :  
 MSVOA\_N  
 ClientSampleId :

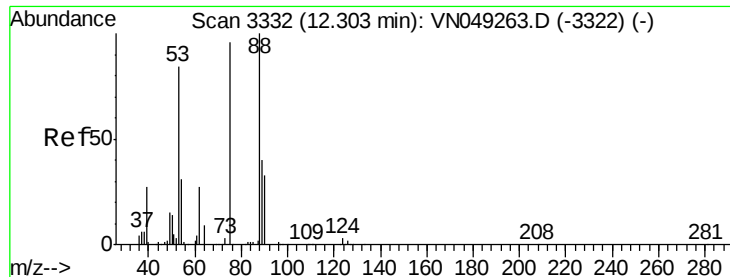
Tot Ion: 91 Resp: 7624  
 Ion Ratio Lower Upper  
 91 100  
 126 10.0 16.6 49.8#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.66 ug/l  
 RT: 12.73 min Scan# 3466  
 Delta R.T. -0.00 min  
 Lab File: VN049303.D  
 Acq: 16 Jun 2018 11:09

Tgt Ion: 105 Resp: 25847  
 Ion Ratio Lower Upper  
 105 100  
 120 46.8 23.5 70.5





#81

trans-1,4-Dichloro-2-butene

Concen: 125.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

ClientSampleId :

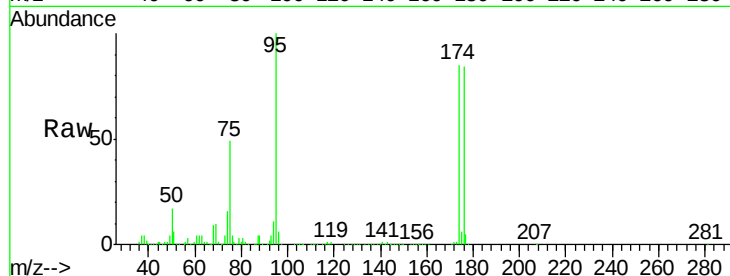
Tot Ion: 75 Resp: 385364

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

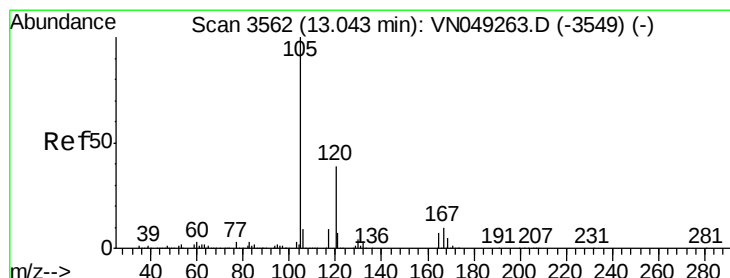
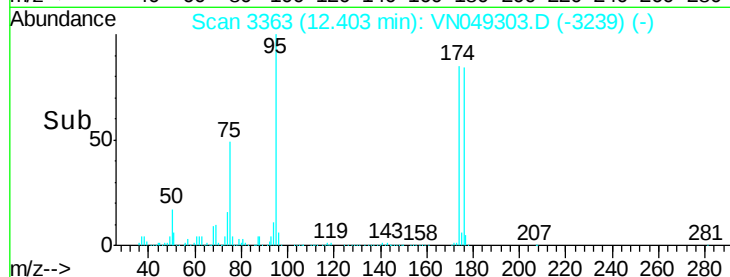
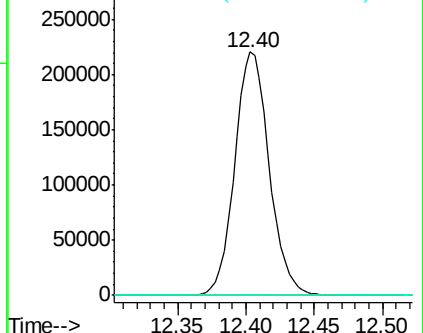
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049303.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049303.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049303.D (-3363) (-)



#84

1,2,4-Trimethylbenzene

Concen: 1.88 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. -0.00 min

Lab File: VN049303.D

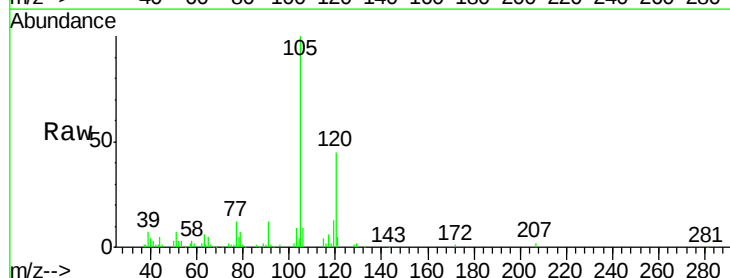
Acq: 16 Jun 2018 11:09

Tgt Ion: 105 Resp: 73448

Ion Ratio Lower Upper

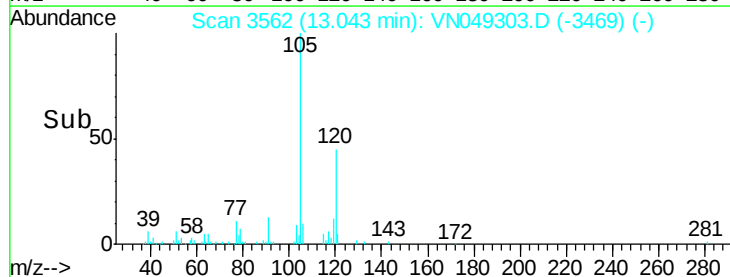
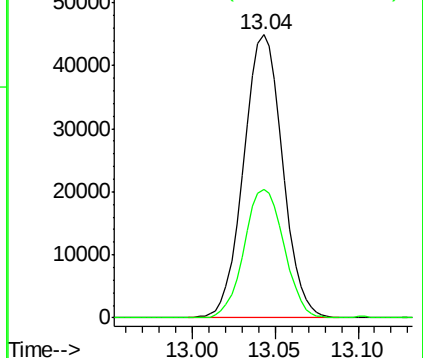
105 100

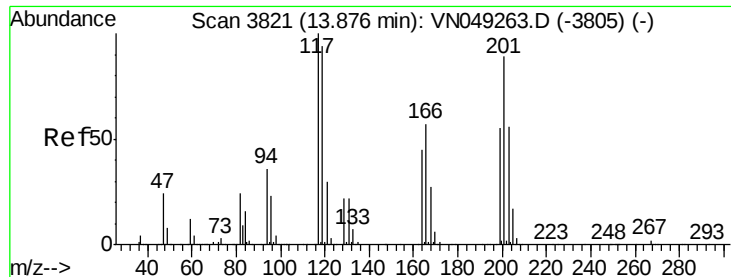
120 46.4 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): VN049303.D (-3562) (-)

Ion 120.00 (119.70 to 120.70): VN049303.D (-3562) (-)

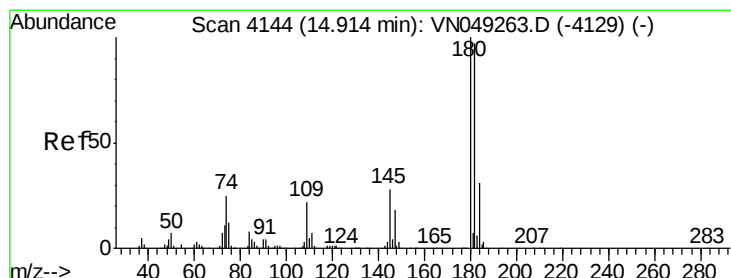
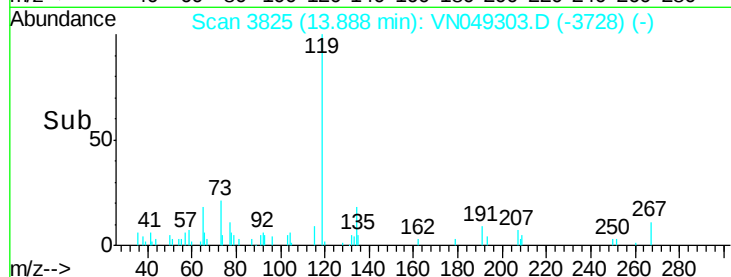
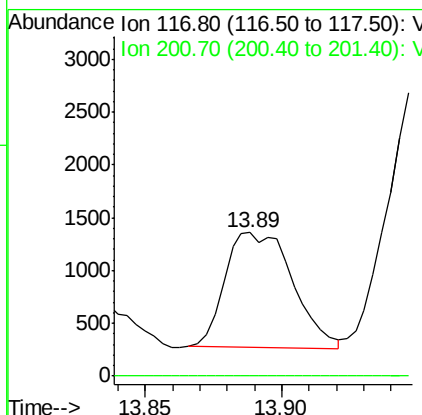
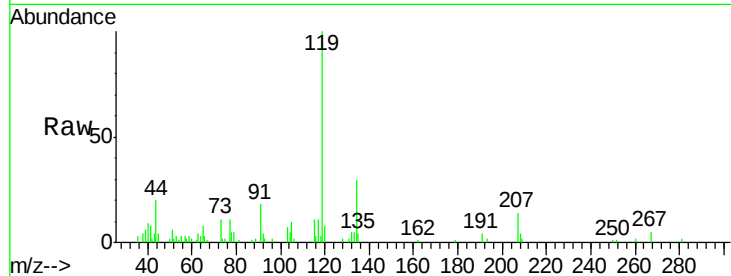




#90  
Hexachloroethane  
Concen: Below Cal  
RT: 13.89 min Scan# 3825  
Delta R.T. 0.01 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

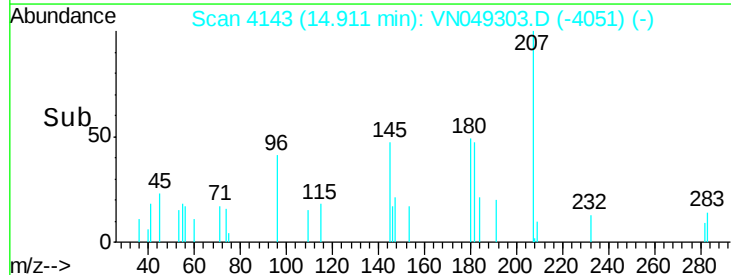
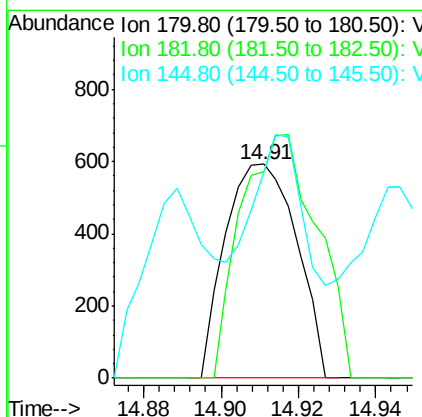
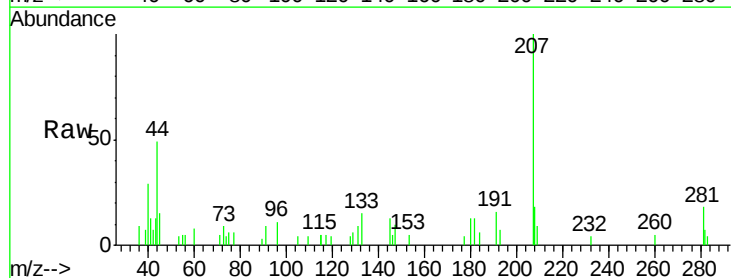
Instrument :  
MSVOA\_N  
ClientSampled :

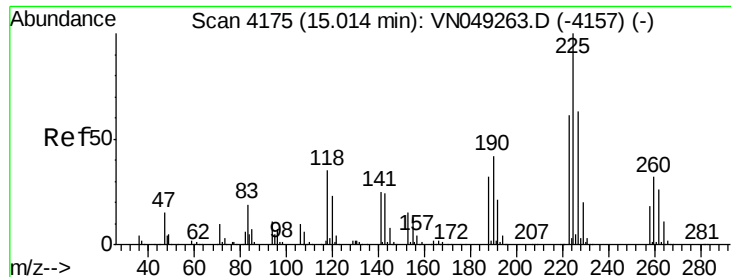
Tot Ion:117 Resp: 1875  
Ion Ratio Lower Upper  
117 100  
201 0.0 40.1 120.2#



#93  
1,2,4-Trichlorobenzene  
Concen: 4.81 ug/l  
RT: 14.91 min Scan# 4143  
Delta R.T. -0.00 min  
Lab File: VN049303.D  
Acq: 16 Jun 2018 11:09

Tgt Ion:180 Resp: 760  
Ion Ratio Lower Upper  
180 100  
182 120.7 46.9 140.8  
145 96.2 14.7 44.1#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

Lab File: VN049303.D

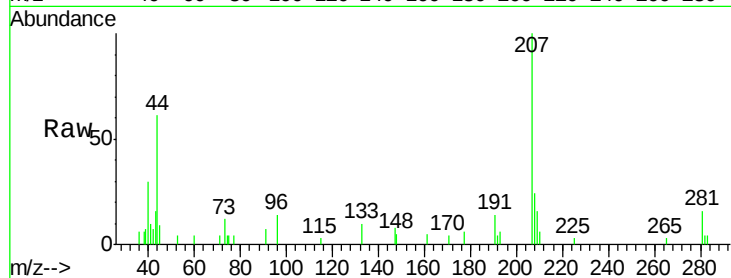
Acq: 16 Jun 2018 11:09

Instrument :

MSVOA\_N

ClientSampleId :

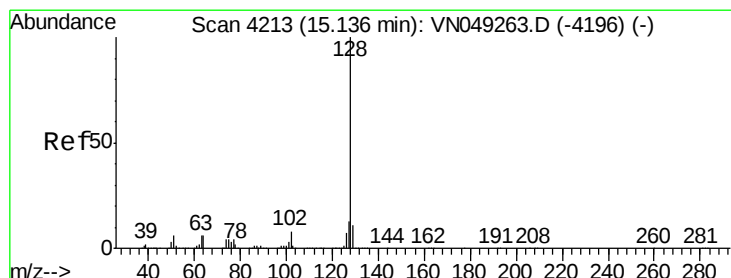
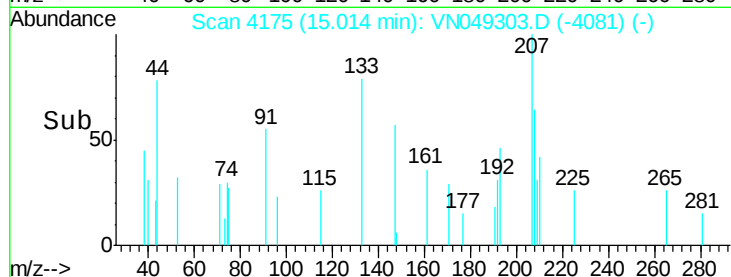
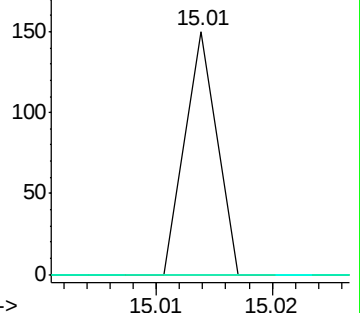
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 225   | Resp: | 29    |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 32.1  | 96.3# |
| 227      | 0.0   | 31.8  | 95.3# |



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 14.37 ug/l

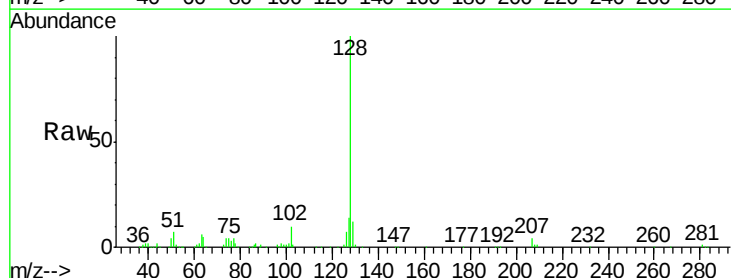
RT: 15.14 min Scan# 4213

Delta R.T. -0.00 min

Lab File: VN049303.D

Acq: 16 Jun 2018 11:09

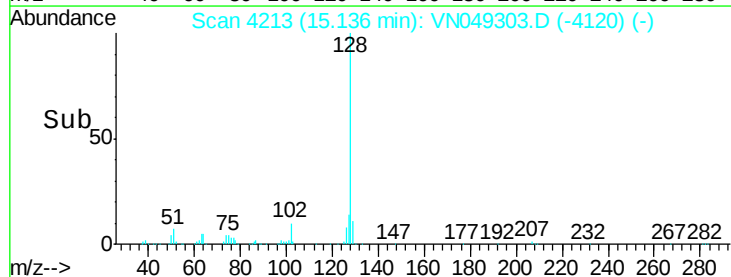
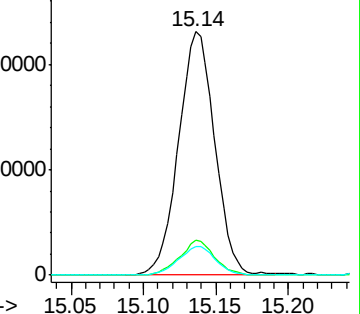
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 200633 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 13.7  | 10.6  | 16.0   |
| 129      | 12.0  | 8.5   | 12.7   |

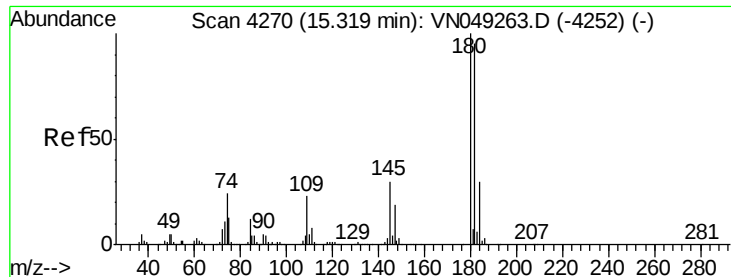


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

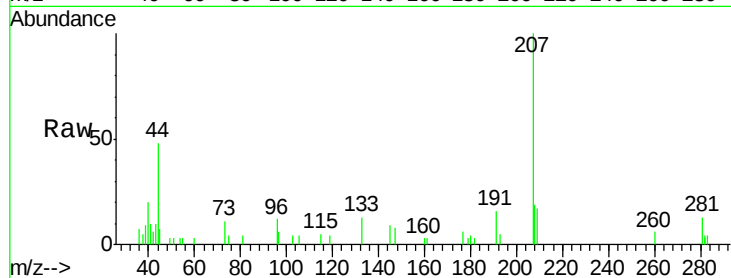




#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.48 ug/l  
 RT: 15.33 min Scan# 4272  
 Delta R.T. 0.01 min  
 Lab File: VN049303.D  
 Acq: 16 Jun 2018 11:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 76.2  | 47.3  | 141.8 |
| 145     | 0.0   | 15.6  | 46.7# |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

