

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\  
 Data File : VN054607.D  
 Acq On : 23 Mar 2019 16:27  
 Operator : JC/SP  
 Sample : K1912-13 10X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 M3-T4-UV(POST-HYPO)

Quant Time: Mar 25 03:32:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 638259   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1027819  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 864870   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 333926   | 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   | 454129   | 57.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.40% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 354315   | 53.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.02% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1336177  | 53.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.36% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 427877   | 50.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.02% |          |

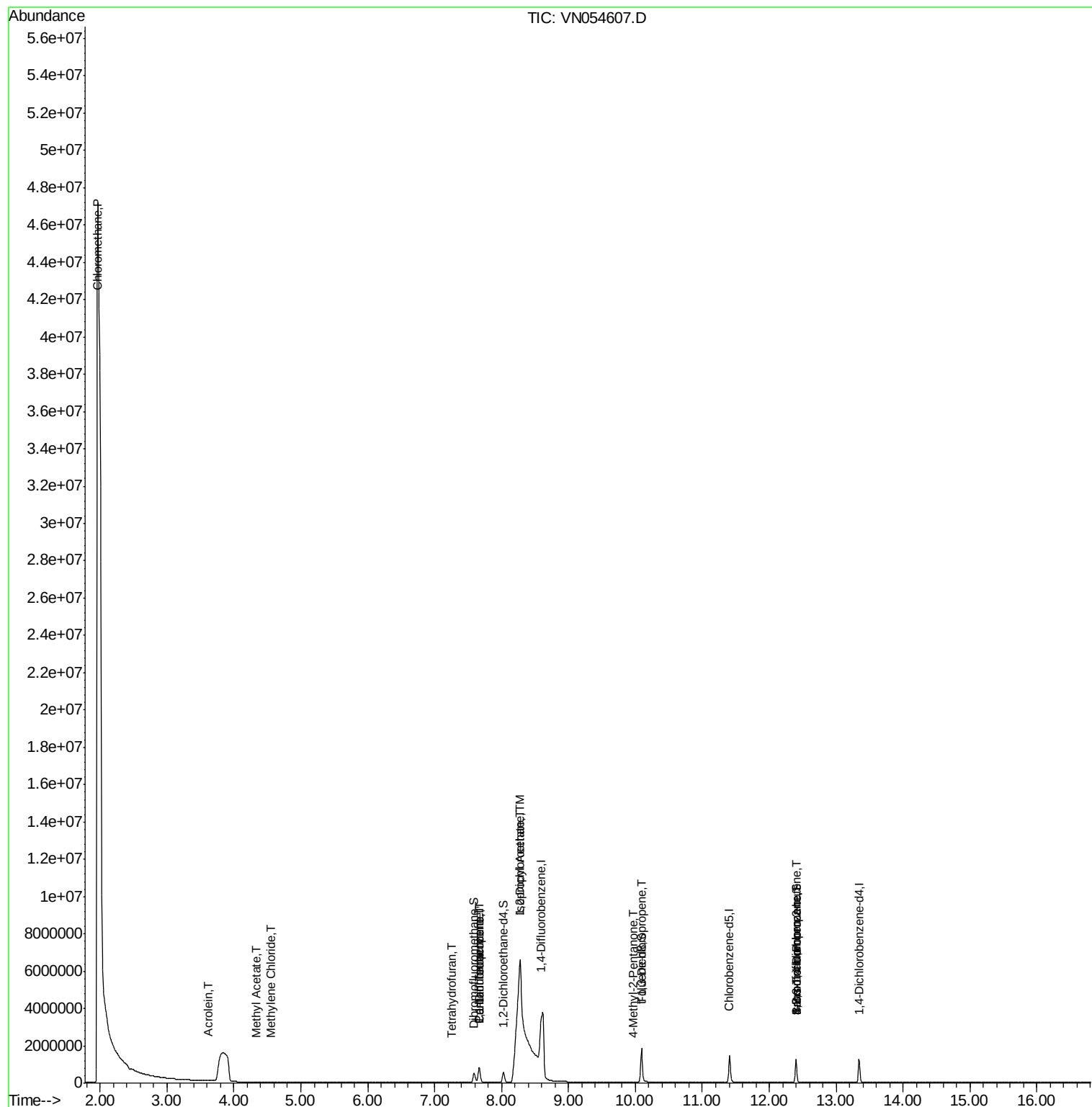
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.96  | 50   | 9372936  | 1129.034  | ug/l # | 43     |
| 13) Acrolein                   | 3.62  | 56   | 144      | 0.217     | ug/l # | 1      |
| 18) Methyl Acetate             | 4.34  | 43   | 11730    | 2.205     | ug/l # | 88     |
| 20) Methylene Chloride         | 4.55  | 84   | 5972     | 0.849     | ug/l # | 81     |
| 29) Tetrahydrofuran            | 7.24  | 42   | 459      | 0.231     | ug/l # | 30     |
| 31) Cyclohexane                | 7.66  | 56   | 13772    | Below Cal | #      | 15     |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 48936    | 5.092     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 61066    | 6.539     | ug/l # | 16     |
| 42) 1,2-Dichloroethane         | 8.27  | 62   | 30511    | 3.049     | ug/l # | 75     |
| 43) Isopropyl Acetate          | 8.28  | 43   | 18651949 | 1615.801  | ug/l # | 61     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 2517     | 0.393     | ug/l # | 36     |
| 53) t-1,3-Dichloropropene      | 10.10 | 75   | 102      | 2.242     | ug/l # | 1      |
| 71) Bromoform                  | 12.40 | 173  | 1255     | 2.496     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 221897   | 41.876    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 221897   | 138.376   | ug/l # | 11     |

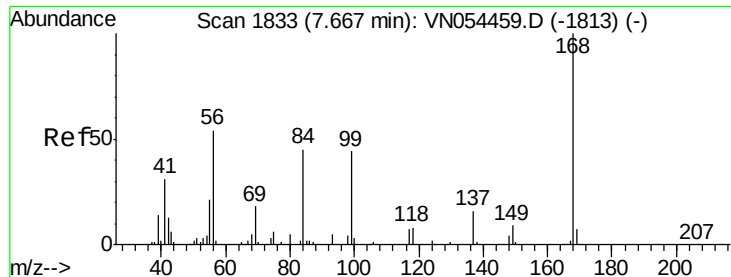
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032319\  
Data File : VN054607.D  
Acq On : 23 Mar 2019 16:27  
Operator : JC/SP  
Sample : K1912-13 10X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
M3-T4-UV(POST-HYPO)

Quant Time: Mar 25 03:32:06 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

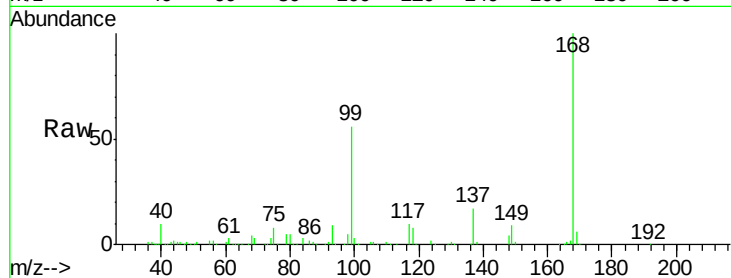
M3-T4-UV(POST-HYPO)

Tot Ion:168 Resp: 638259

Ion Ratio Lower Upper

168 100

99 55.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

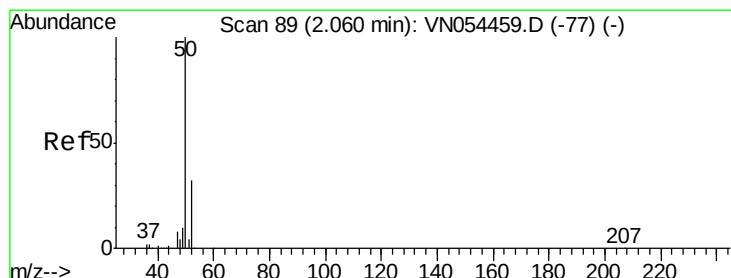
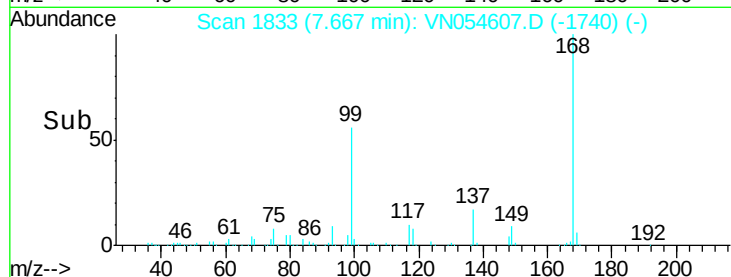
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1129.034 ug/l

RT: 1.96 min Scan# 59

Delta R.T. -0.10 min

Lab File: VN054607.D

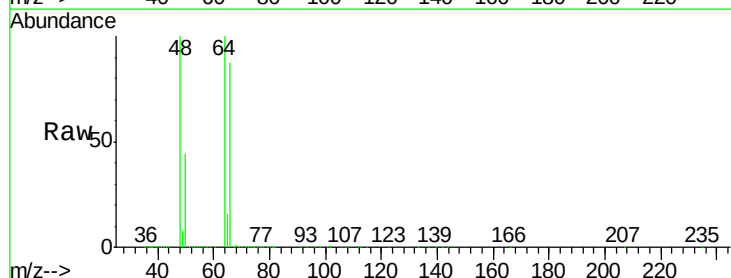
Acq: 23 Mar 2019 16:27

Tgt Ion: 50 Resp: 9372936

Ion Ratio Lower Upper

50 100

52 0.5 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

1.96

4000000

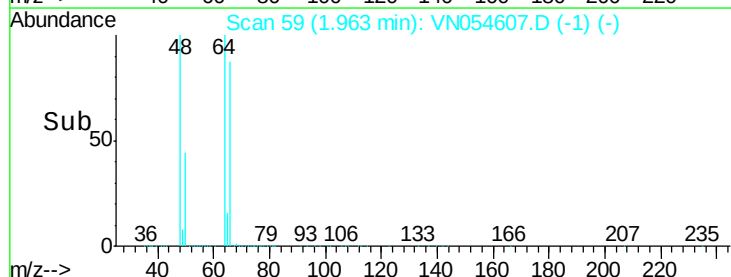
3000000

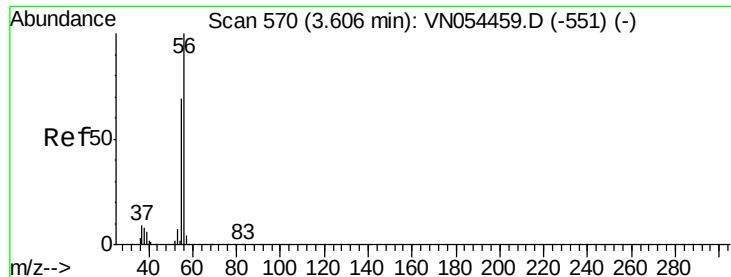
2000000

1000000

0

Time-->





#13

Acrolein

Concen: 0.217 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

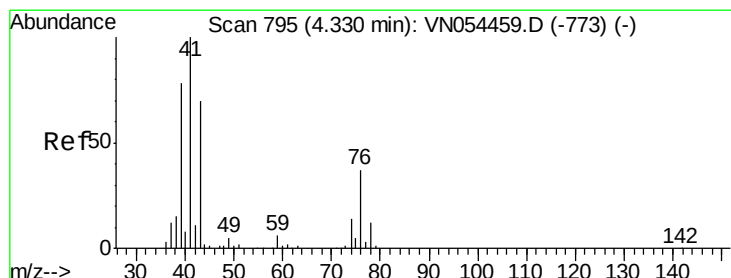
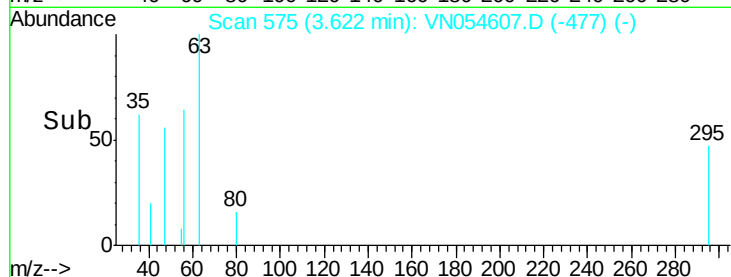
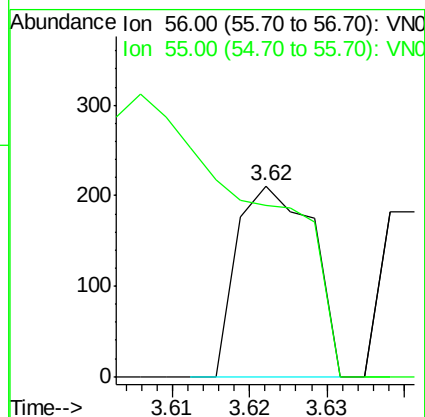
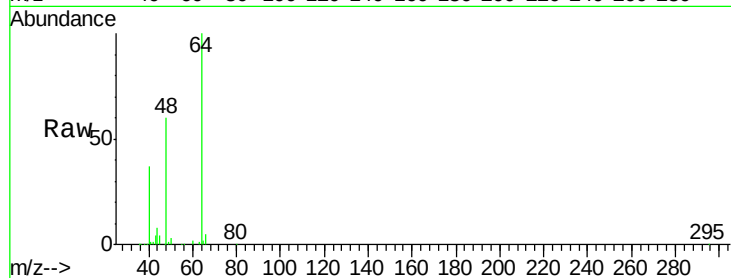
M3-T4-UV(POST-HYPO)

Tot Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 310.4 56.7 85.1#



#18

Methyl Acetate

Concen: 2.205 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN054607.D

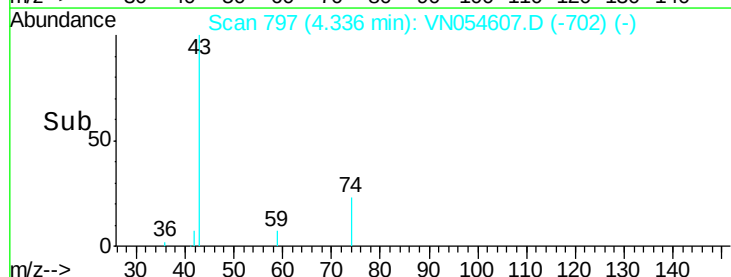
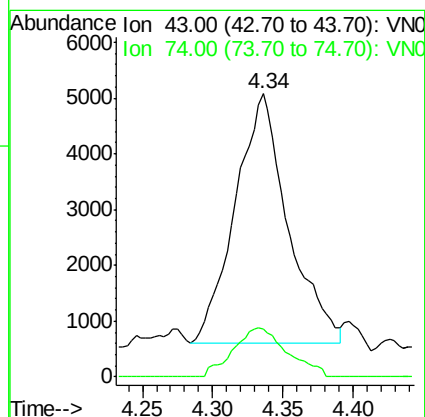
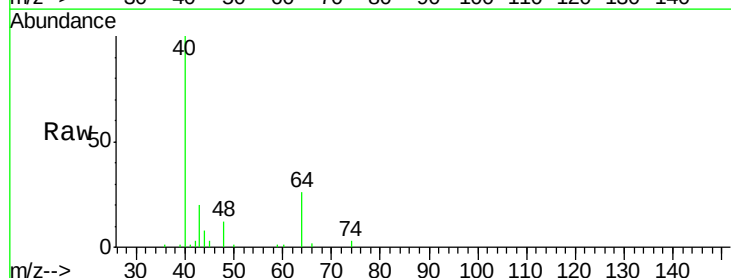
Acq: 23 Mar 2019 16:27

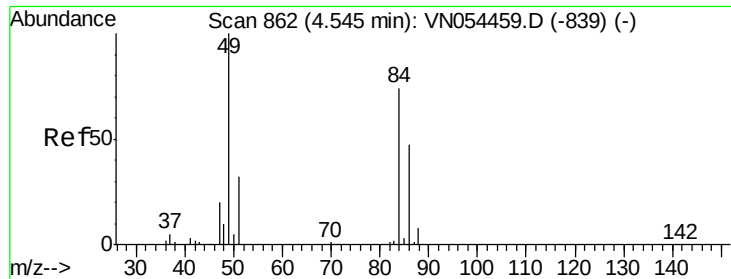
Tgt Ion: 43 Resp: 11730

Ion Ratio Lower Upper

43 100

74 20.1 20.8 31.2#

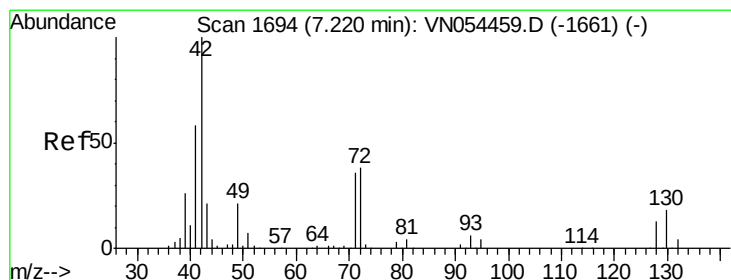
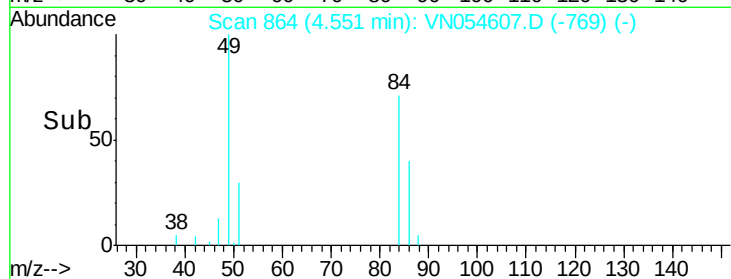
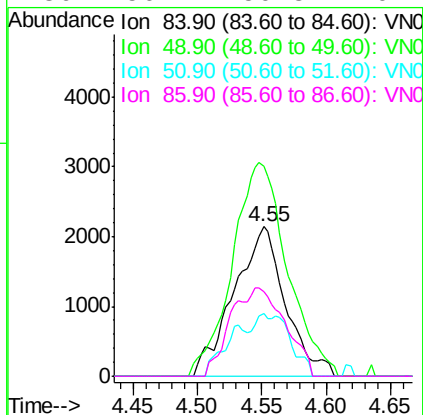
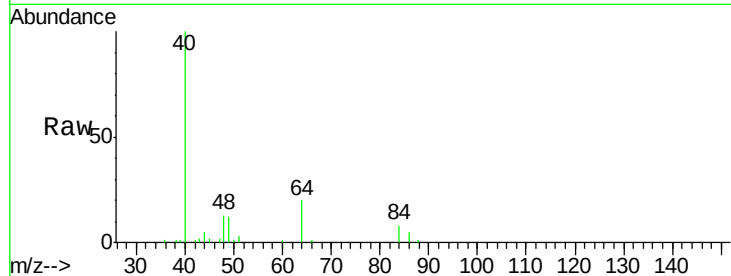




#20  
Methvlene Chloride  
Concen: 0.849 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. 0.01 min  
Lab File: VN054607.D  
Acq: 23 Mar 2019 16:27

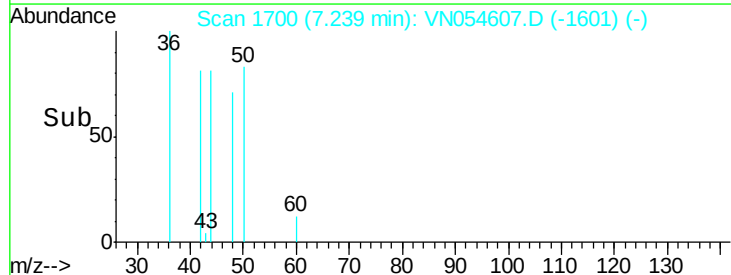
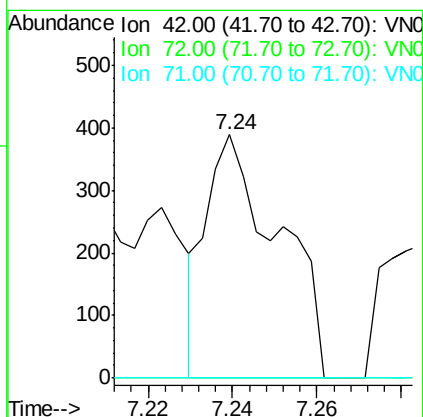
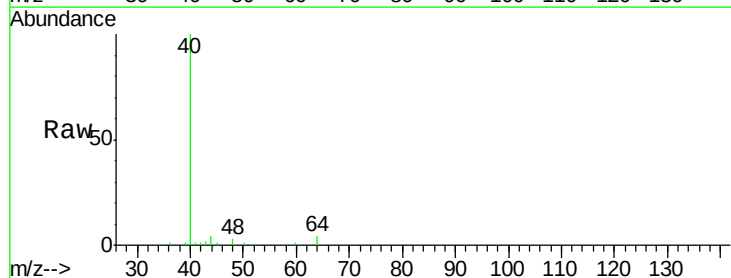
Instrument :  
MSVOA\_N  
ClientSampleId :  
M3-T4-UV(POST-HYPO)

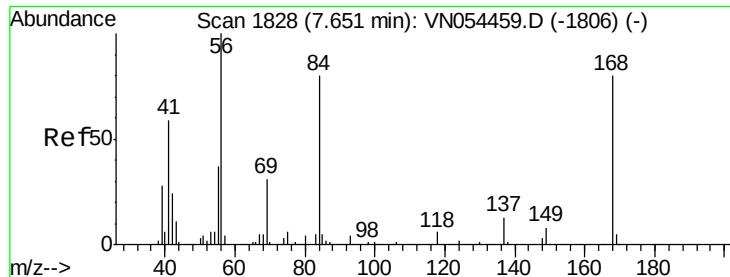
Tot Ion: 84 Resp: 5972  
Ion Ratio Lower Upper  
84 100  
49 140.8 89.7 134.5#  
51 41.8 28.2 42.4  
86 56.7 50.8 76.2



#29  
Tetrahydrofuran  
Concen: 0.231 ug/l  
RT: 7.24 min Scan# 1700  
Delta R.T. 0.02 min  
Lab File: VN054607.D  
Acq: 23 Mar 2019 16:27

Tgt Ion: 42 Resp: 459  
Ion Ratio Lower Upper  
42 100  
72 0.0 37.8 56.6#  
71 0.0 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

M3-T4-UV(POST-HYPO)

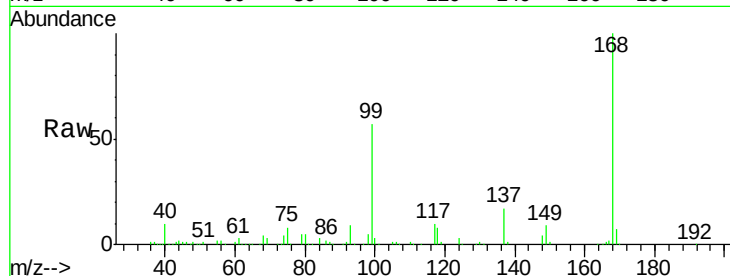
Tot Ion: 56 Resp: 13772

Ion Ratio Lower Upper

56 100

69 158.9 27.8 41.6#

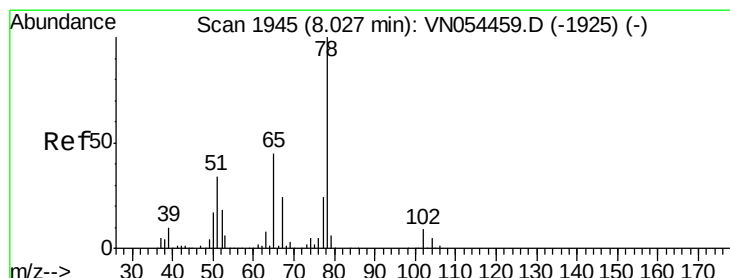
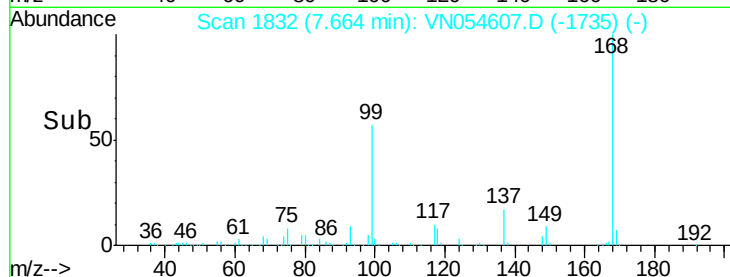
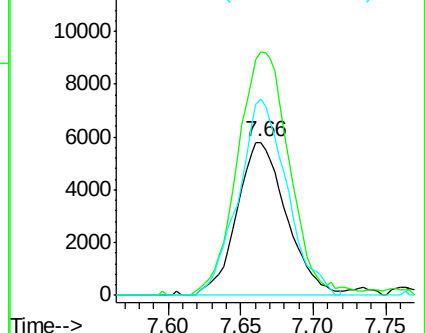
84 128.2 74.6 111.8#



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: 57.203 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054607.D

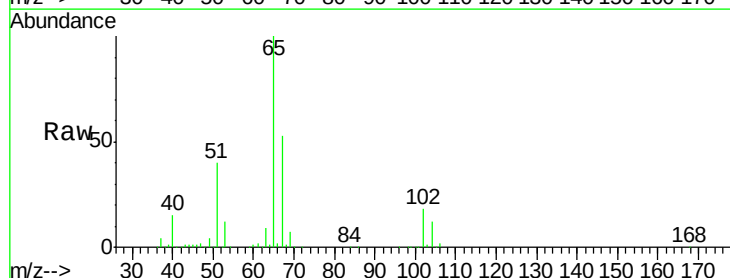
Acq: 23 Mar 2019 16:27

Tgt Ion: 65 Resp: 454129

Ion Ratio Lower Upper

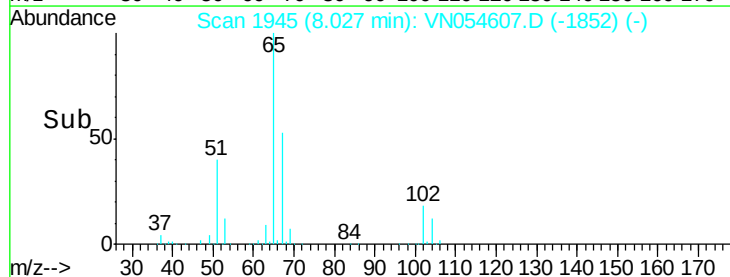
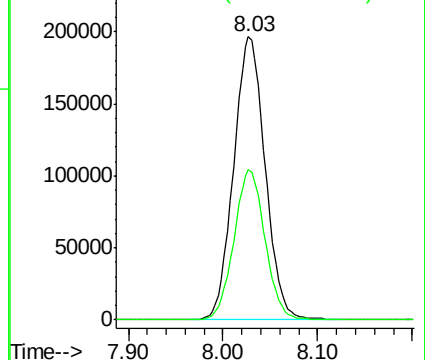
65 100

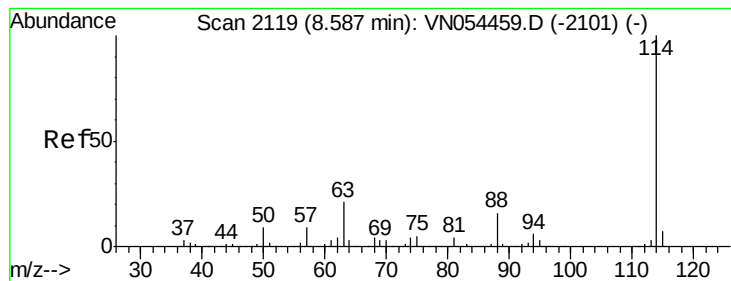
67 52.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

M3-T4-UV(POST-HYPO)

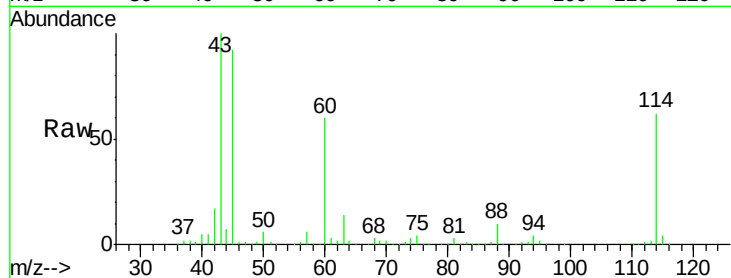
Tot Ion:114 Resp: 1027819

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.2

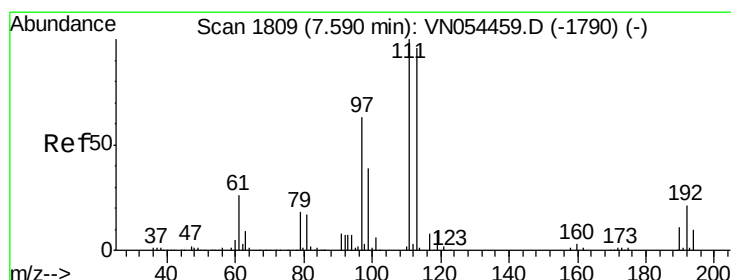
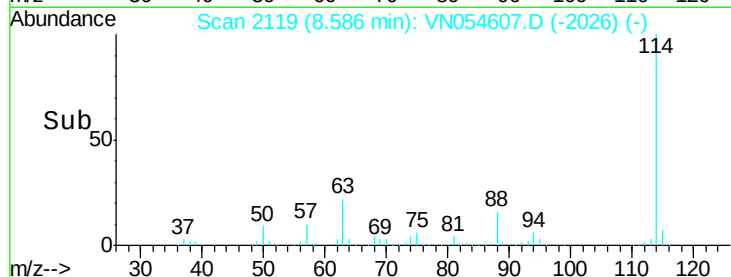
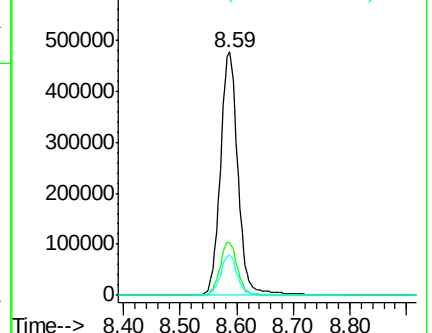
88 16.4 0.0 30.2



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: 53.508 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

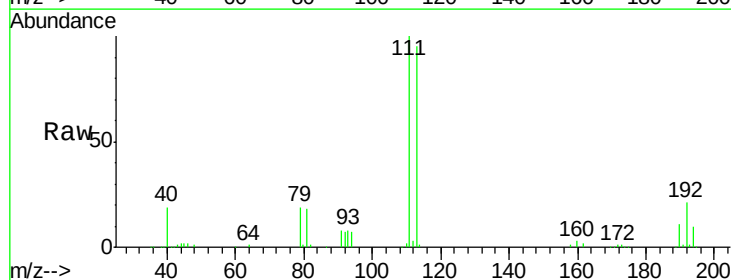
Tgt Ion:113 Resp: 354315

Ion Ratio Lower Upper

113 100

111 104.8 82.2 123.4

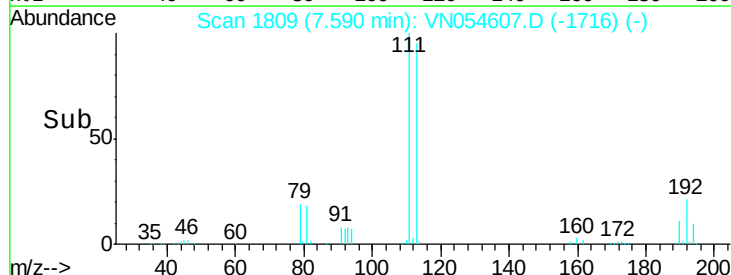
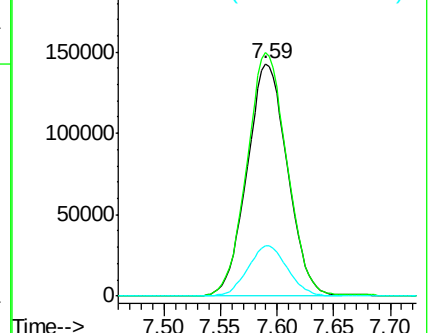
192 21.2 19.2 28.8

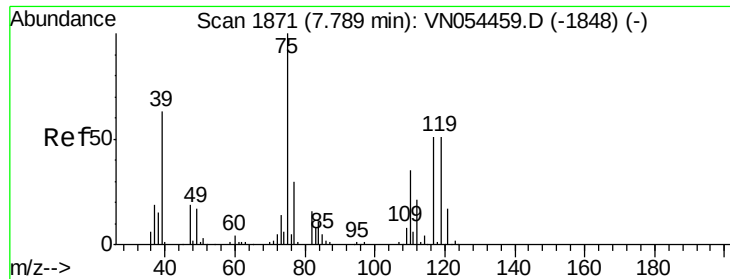


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

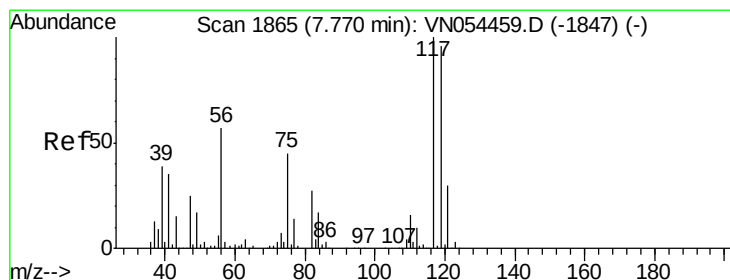
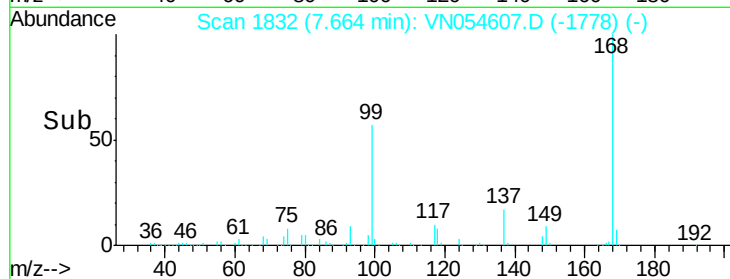
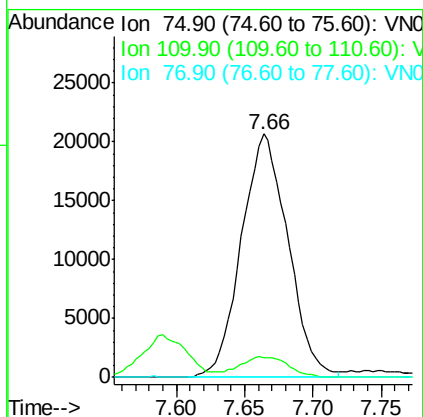
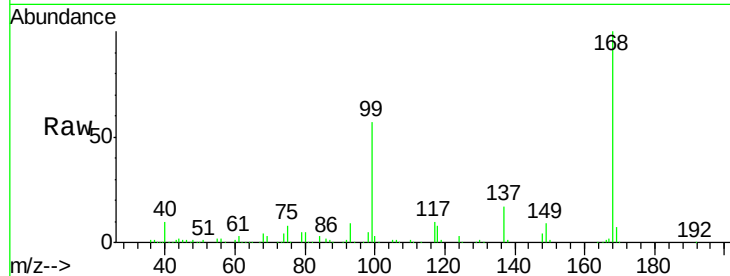




#36  
 1,1-Dichloropropene  
 Concen: 5.092 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN054607.D  
 Acq: 23 Mar 2019 16:27

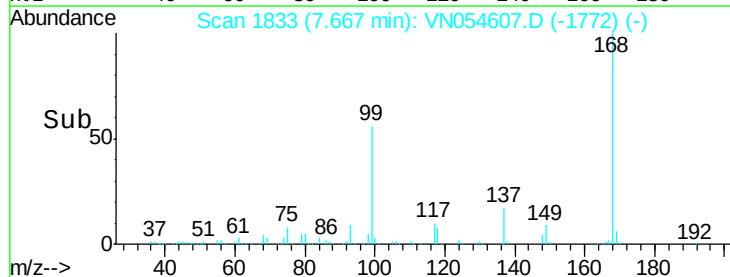
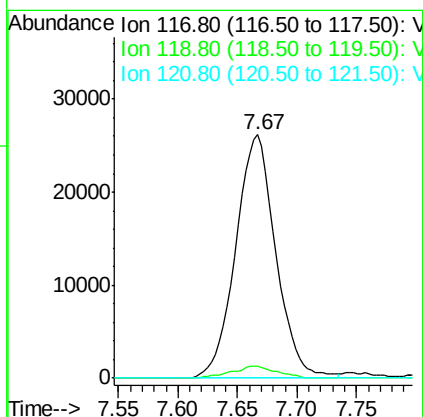
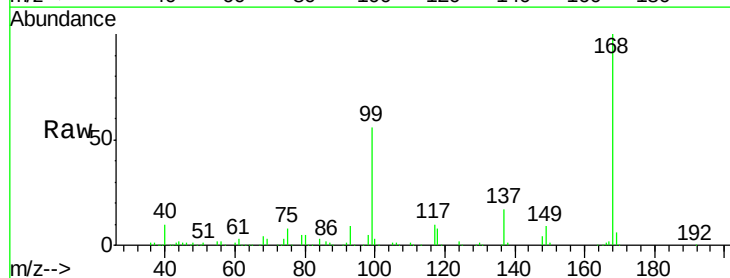
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 M3-T4-UV(POST-HYPO)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 19.1  | 57.5# |
| 77      | 0.0   | 25.0  | 37.4# |

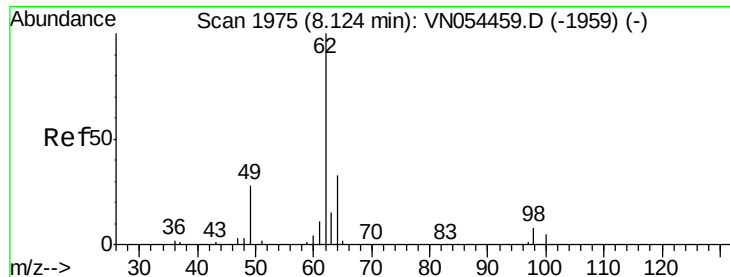


#38  
 Carbon Tetrachloride  
 Concen: 6.539 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.10 min  
 Lab File: VN054607.D  
 Acq: 23 Mar 2019 16:27

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.9   | 76.3  | 114.5# |
| 121     | 0.0   | 24.6  | 36.8#  |



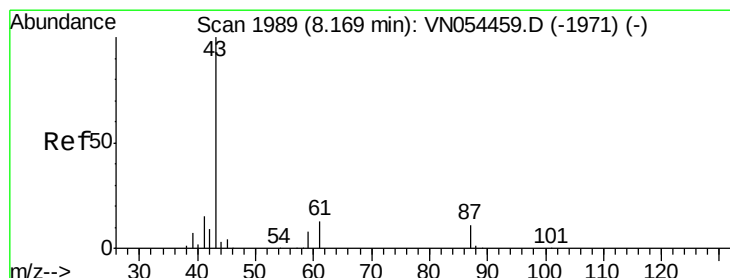
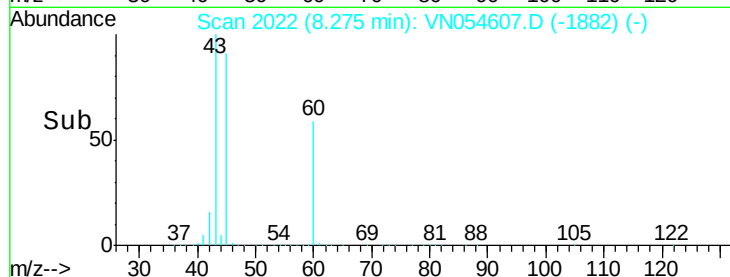
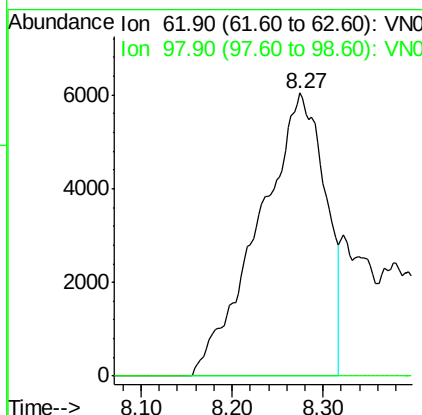
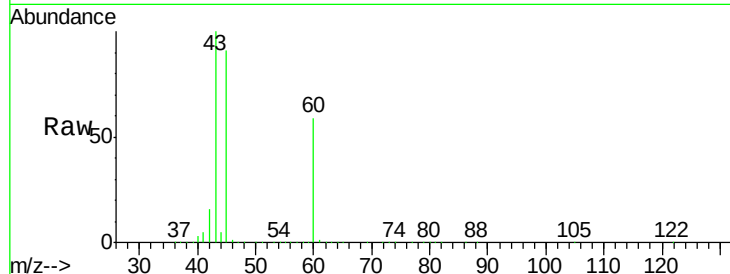




#42  
 1,2-Dichloroethane  
 Concen: 3.049 ug/l  
 RT: 8.27 min Scan# 2022  
 Delta R.T. 0.15 min  
 Lab File: VN054607.D  
 Acq: 23 Mar 2019 16:27

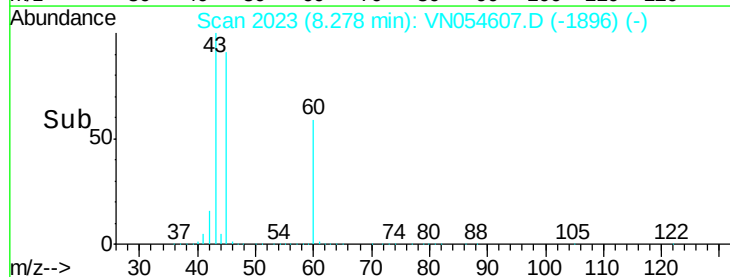
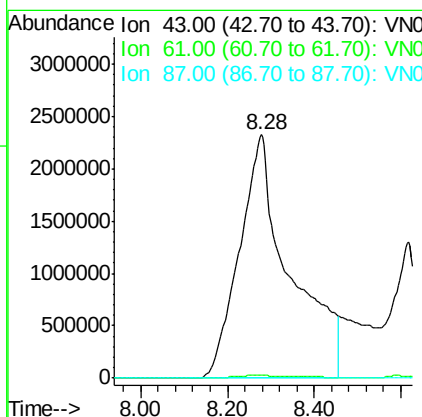
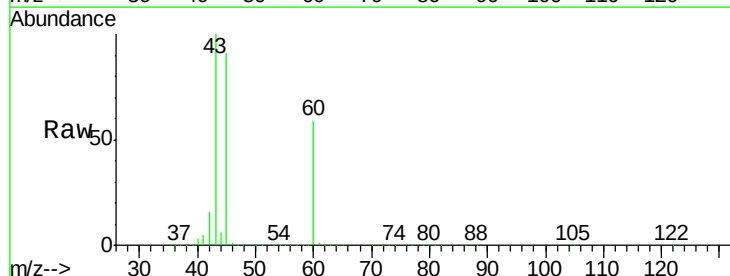
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 M3-T4-UV(POST-HYPO)

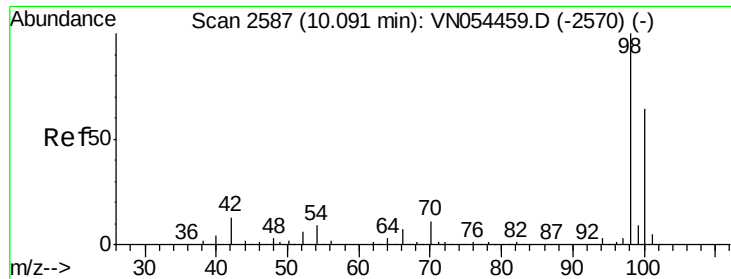
Tot Ion: 62 Resp: 30511  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 0.0 18.4



#43  
 Isopropyl Acetate  
 Concen: 1615.801 ug/l  
 RT: 8.28 min Scan# 2023  
 Delta R.T. 0.11 min  
 Lab File: VN054607.D  
 Acq: 23 Mar 2019 16:27

Tgt Ion: 43 Resp: 18651949  
 Ion Ratio Lower Upper  
 43 100  
 61 1.0 15.8 23.8#  
 87 0.0 12.0 18.0#





#50

Toluene-d8

Concen: 53.676 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

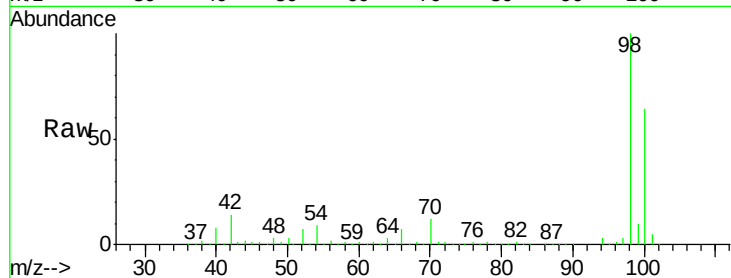
M3-T4-UV(POST-HYPO)

Tot Ion: 98 Resp: 1336177

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)

10.09

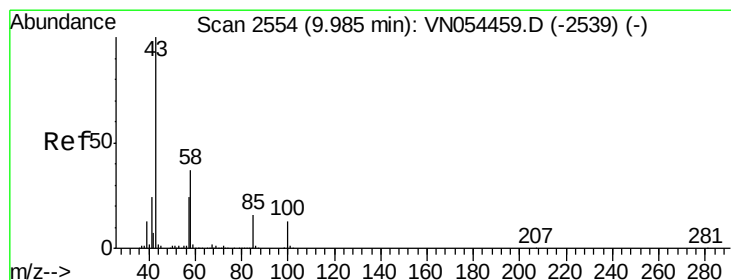
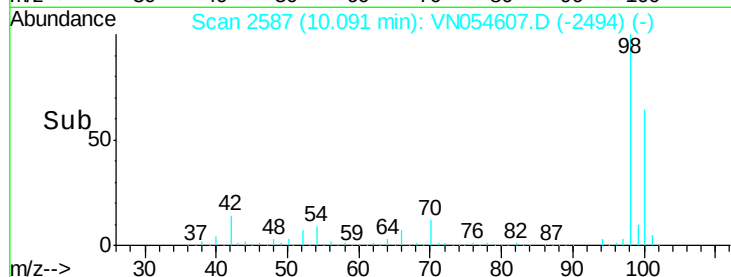
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.393 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.02 min

Lab File: VN054607.D

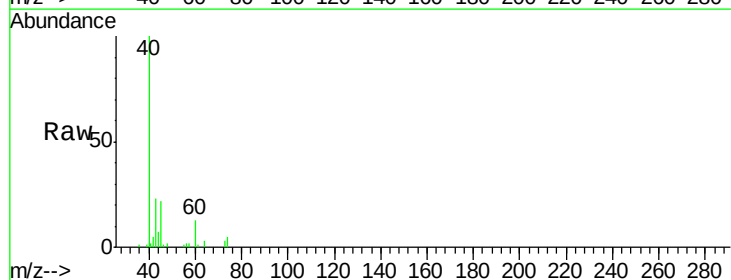
Acq: 23 Mar 2019 16:27

Tgt Ion: 43 Resp: 2517

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)

9.97

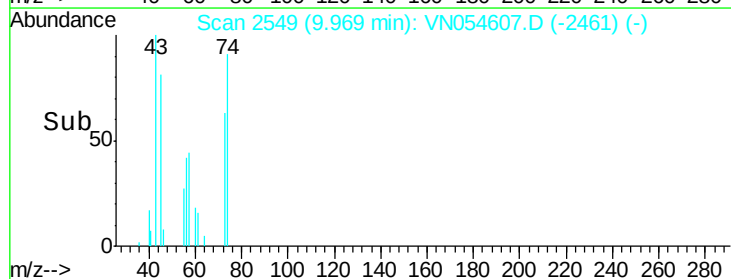
6000

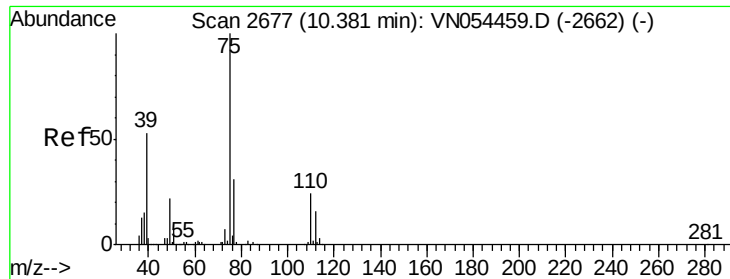
4000

2000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.242 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.28 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

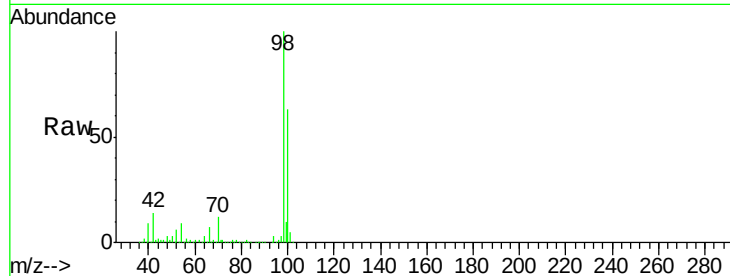
M3-T4-UV(POST-HYPO)

Tot Ion: 75 Resp: 102

Ion Ratio Lower Upper

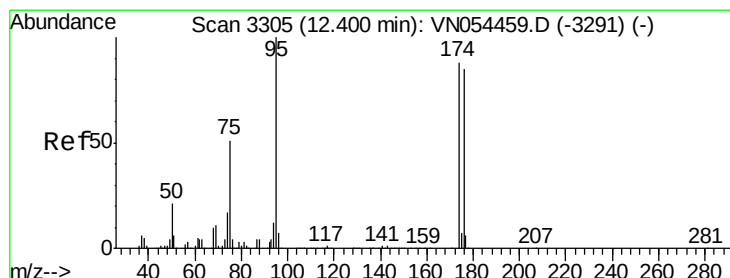
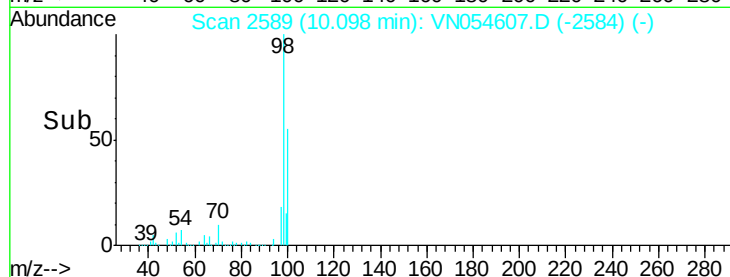
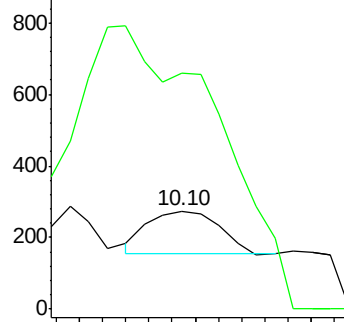
75 100

77 389.1 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#62

4-Bromofluorobenzene

Concen: 50.512 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

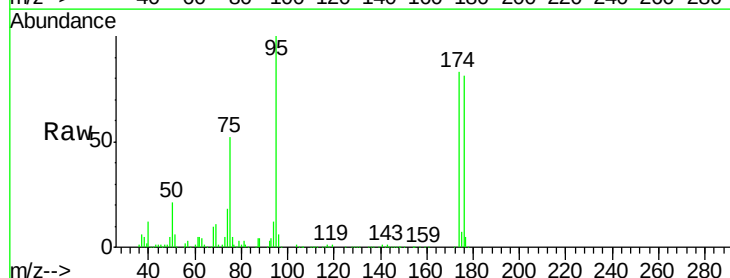
Tgt Ion: 95 Resp: 427877

Ion Ratio Lower Upper

95 100

174 83.9 0.0 191.0

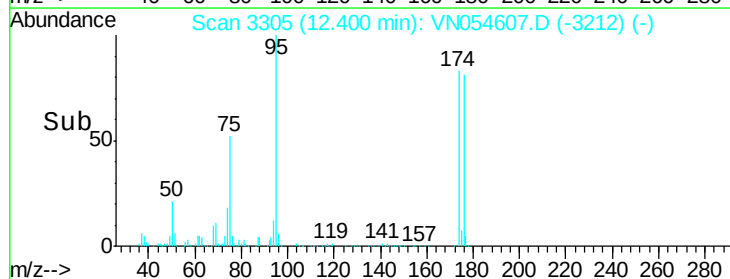
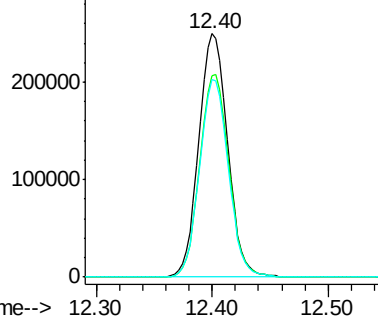
176 81.0 0.0 187.4

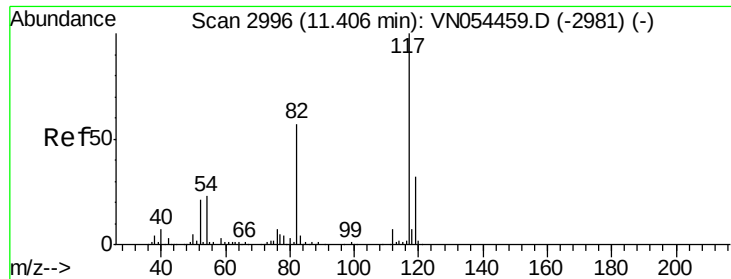


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

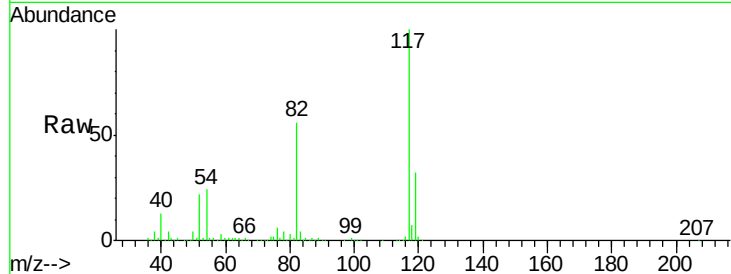




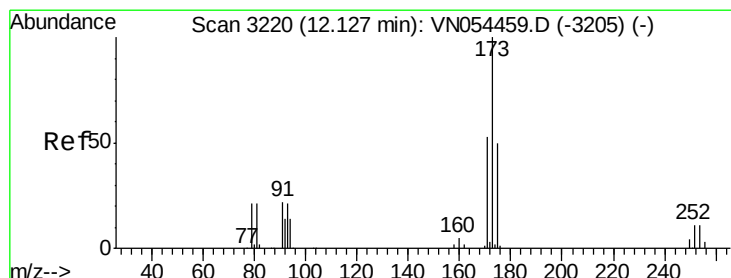
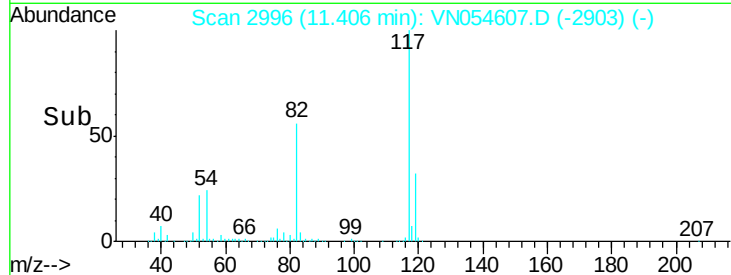
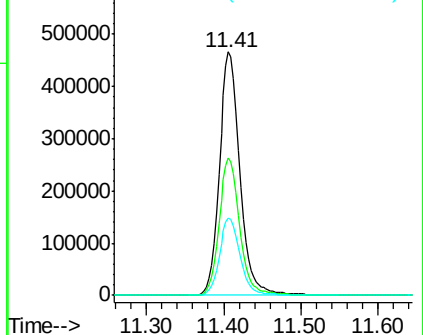
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN054607.D  
Acq: 23 Mar 2019 16:27

Instrument :  
MSVOA\_N  
ClientSampleId :  
M3-T4-UV(POST-HYPO)

Tot Ion:117 Resp: 864870  
Ion Ratio Lower Upper  
117 100  
82 56.2 40.0 60.0  
119 31.9 25.8 38.6

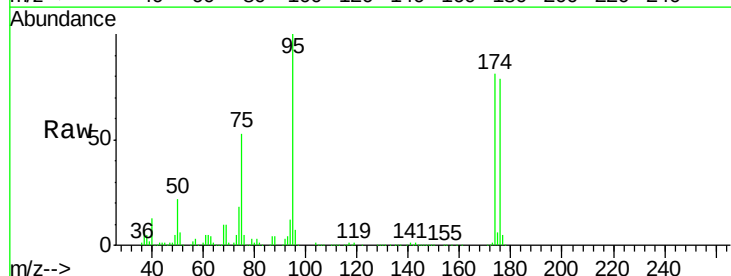


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

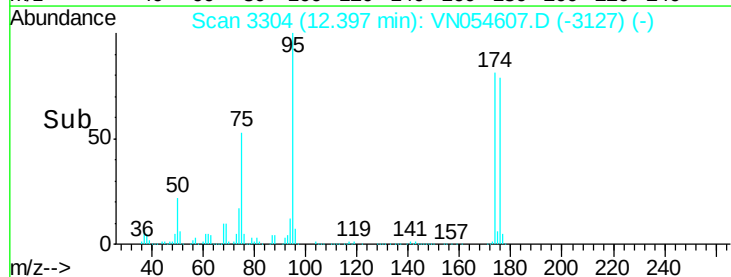
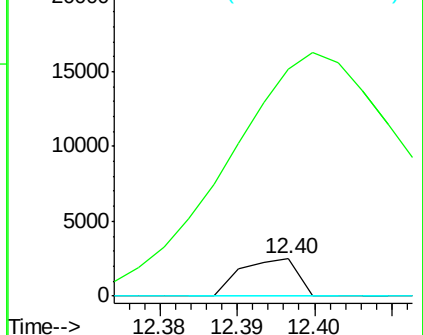


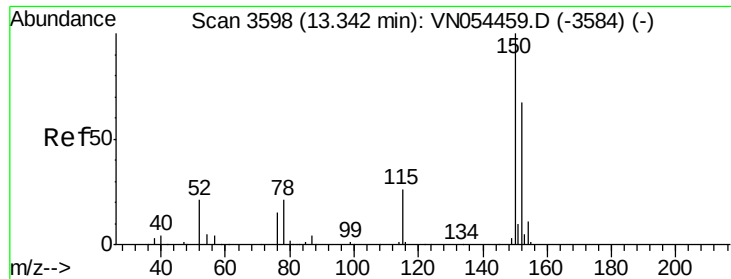
#71  
Bromoform  
Concen: 2.496 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.27 min  
Lab File: VN054607.D  
Acq: 23 Mar 2019 16:27

Tgt Ion:173 Resp: 1255  
Ion Ratio Lower Upper  
173 100  
175 1909.8 24.4 73.2#  
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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

M3-T4-UV(POST-HYPO)

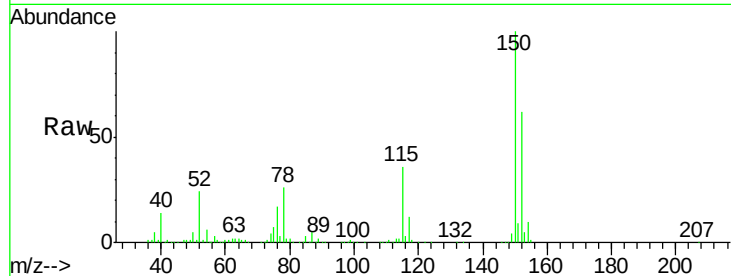
Tot Ion:152 Resp: 333926

Ion Ratio Lower Upper

152 100

115 58.3 27.2 81.6

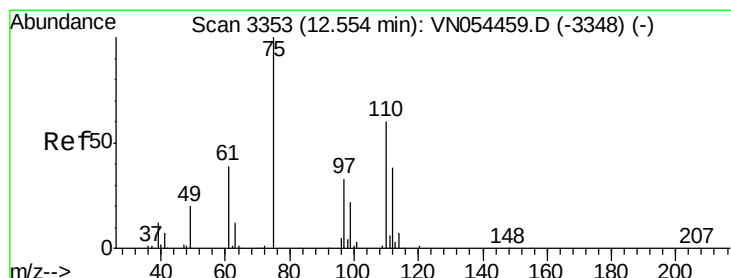
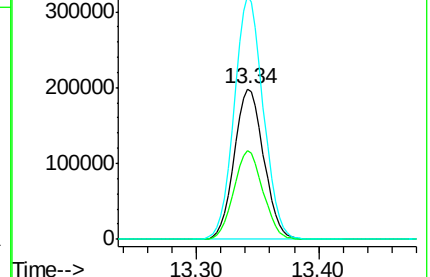
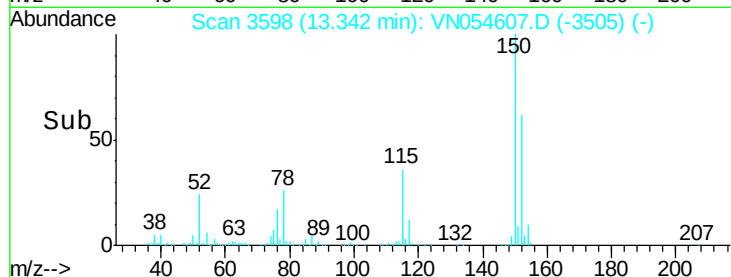
150 158.8 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 41.876 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054607.D

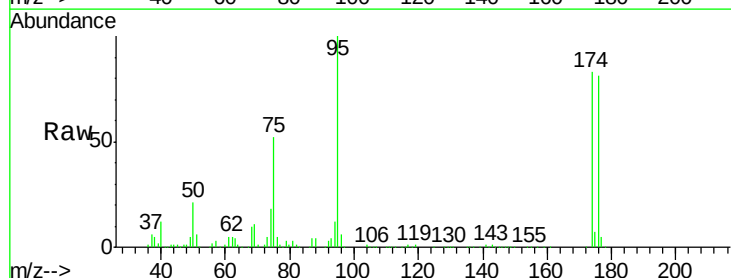
Acq: 23 Mar 2019 16:27

Tgt Ion: 75 Resp: 221897

Ion Ratio Lower Upper

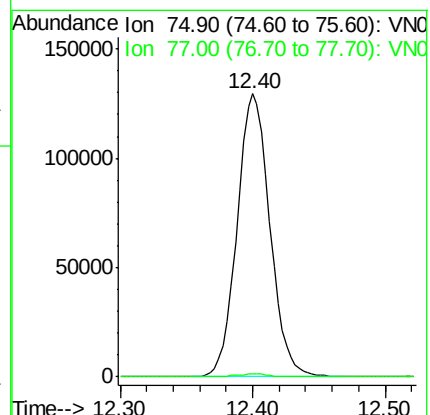
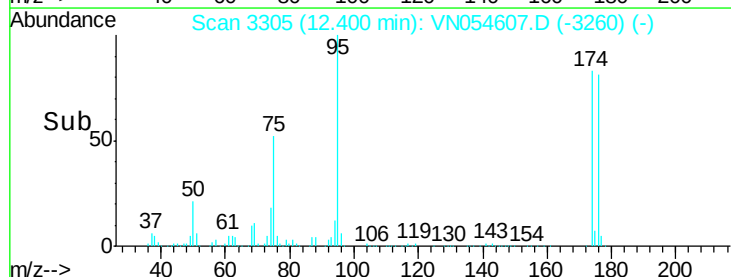
75 100

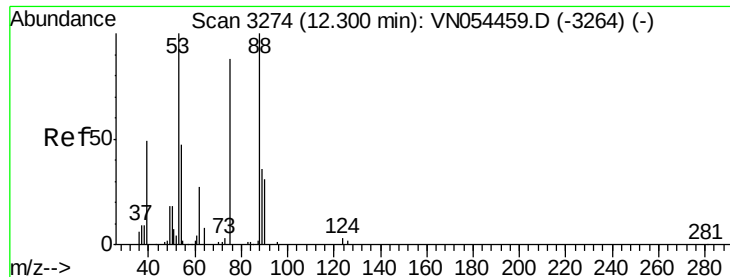
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 138.376 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054607.D

Acq: 23 Mar 2019 16:27

Instrument :

MSVOA\_N

ClientSampleId :

M3-T4-UV(POST-HYPO)

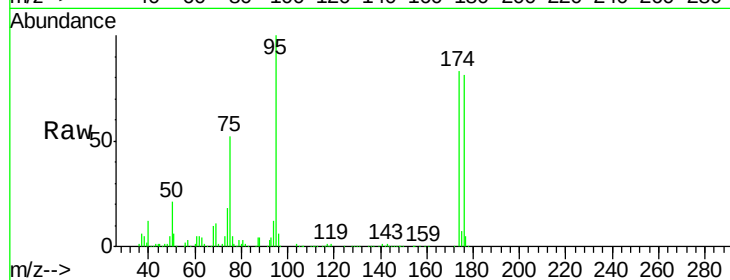
Tot Ion: 75 Resp: 221897

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

