

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050120\  
 Data File : VN061238.D  
 Acq On : 1 May 2020 18:13  
 Operator : JC/MD  
 Sample : L2467-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS040MW317-200428

Quant Time: May 04 00:56:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 29 08:14:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 106378   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 189288   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 183711   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 81309    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 84201    | 50.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.04% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 57616    | 51.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.94% |          |
| 50) Toluene-d8              | 10.06 | 98   | 237200   | 51.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.96% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 86955    | 50.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.28% |          |

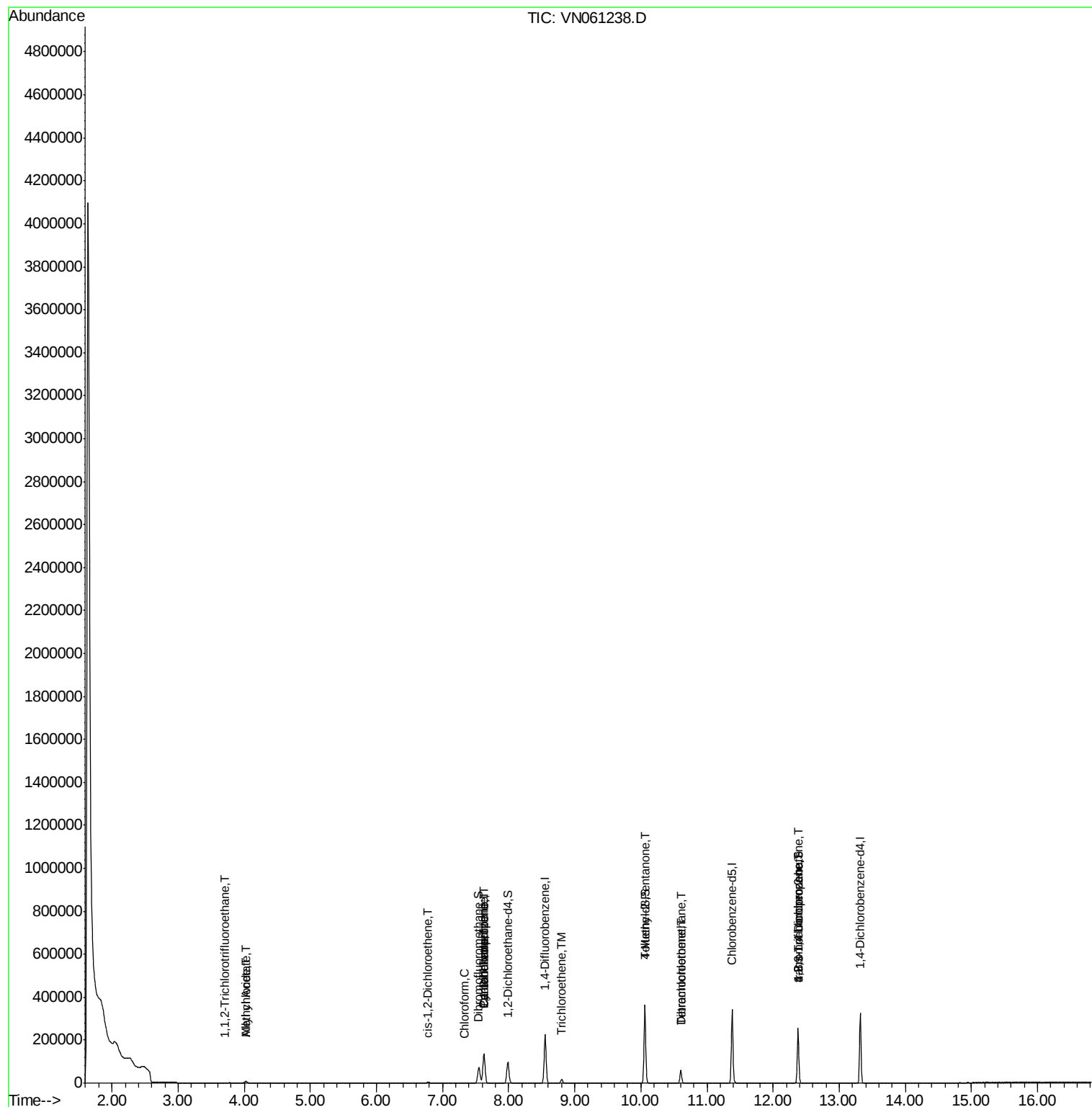
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 9) 1,1,2-Trichlorotrifluoroet  | 3.71  | 101  | 250      | 0.222  | ug/l # | 48     |
| 14) Allyl chloride             | 4.02  | 41   | 908      | 0.436  | ug/l # | 49     |
| 18) Methyl Acetate             | 4.02  | 43   | 3501     | 2.304  | ug/l # | 55     |
| 27) cis-1,2-Dichloroethene     | 6.78  | 96   | 2465     | 1.719  | ug/l   | 85     |
| 30) Chloroform                 | 7.33  | 83   | 821      | 0.321  | ug/l   | 97     |
| 31) Cyclohexane                | 7.62  | 56   | 2621     | 1.070  | ug/l # | 5      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 9001     | 4.750  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 10943    | 8.327  | ug/l # | 18     |
| 44) Trichloroethene            | 8.80  | 130  | 5908     | 3.871  | ug/l   | 95     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1285     | 0.592  | ug/l # | 1      |
| 60) Dibromochloromethane       | 10.60 | 129  | 13123    | 9.238  | ug/l # | 10     |
| 64) Tetrachloroethene          | 10.60 | 164  | 13603    | 8.549  | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 46521    | 27.138 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 46521    | 68.917 | ug/l # | 8      |

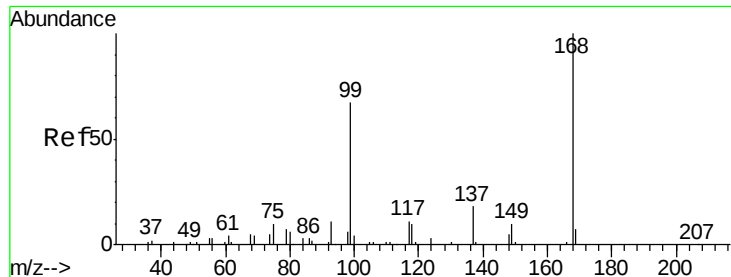
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Apr 29 08:14:26 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

Instrument :

MSVOA\_N

ClientSampleId :

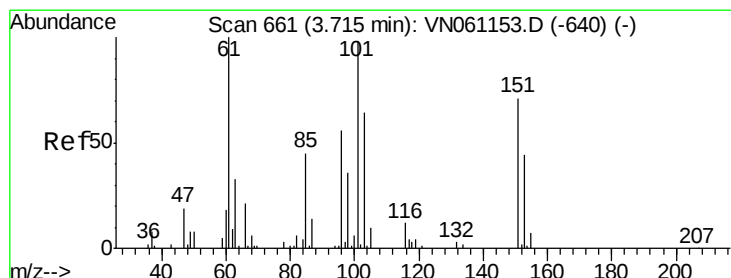
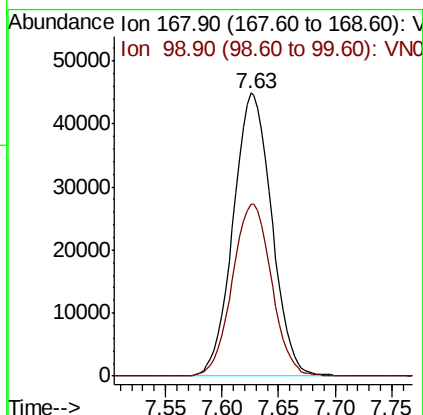
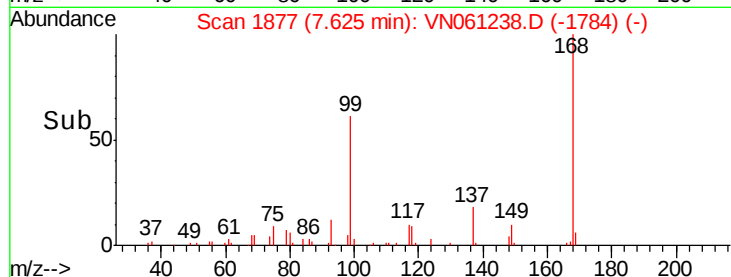
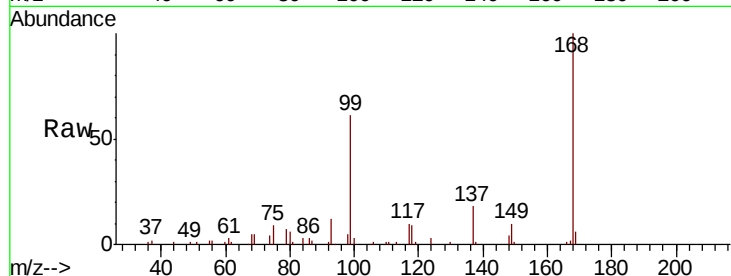
SS040MW317-200428

Tot Ion:168 Resp: 106378

Ion Ratio Lower Upper

168 100

99 60.6 51.2 76.8



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.222 ug/l

RT: 3.71 min Scan# 659

Delta R.T. -0.01 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

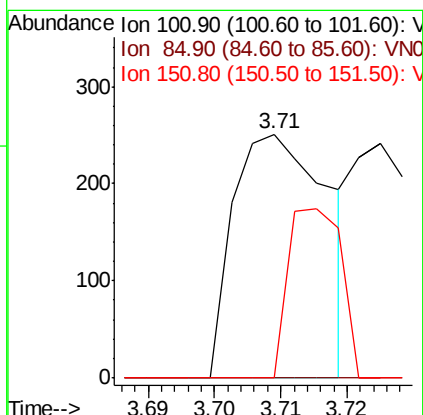
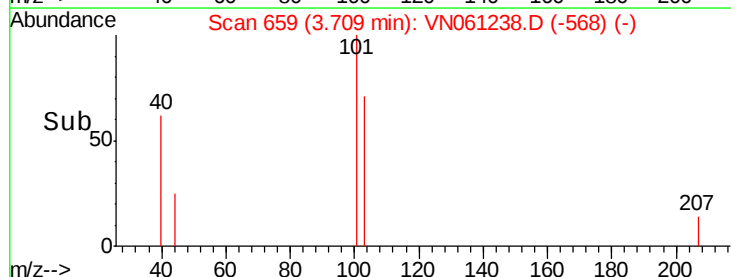
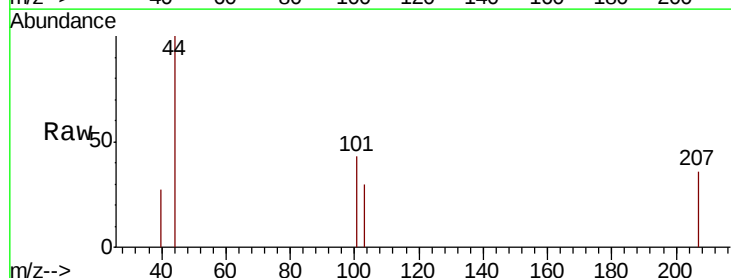
Tgt Ion:101 Resp: 250

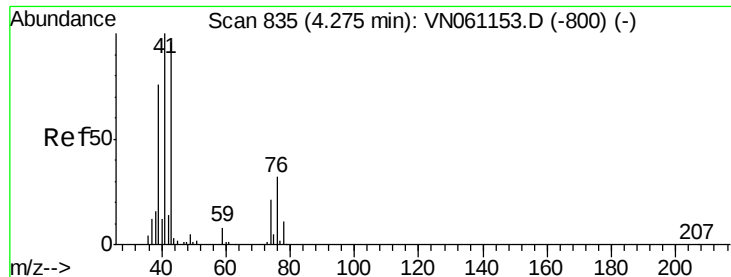
Ion Ratio Lower Upper

101 100

85 0.0 37.2 55.8#

151 38.4 57.7 86.5#





#14

Allvl chloride

Concen: 0.436 ug/l

RT: 4.02 min Scan# 755

Delta R.T. -0.26 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

Instrument :

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ClientSampleId :

SS040MW317-200428

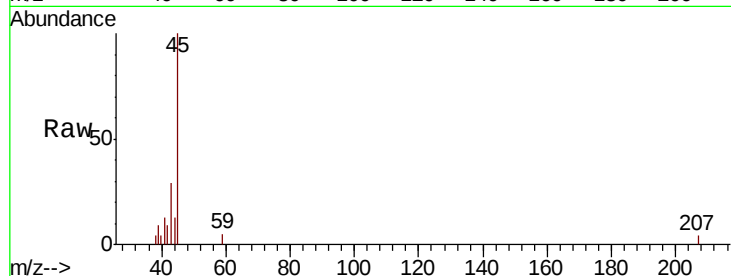
Tot Ion: 41 Resp: 908

Ion Ratio Lower Upper

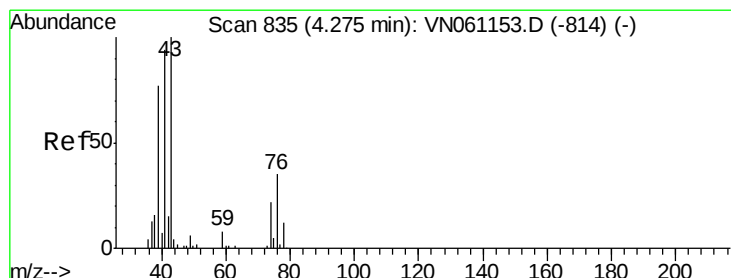
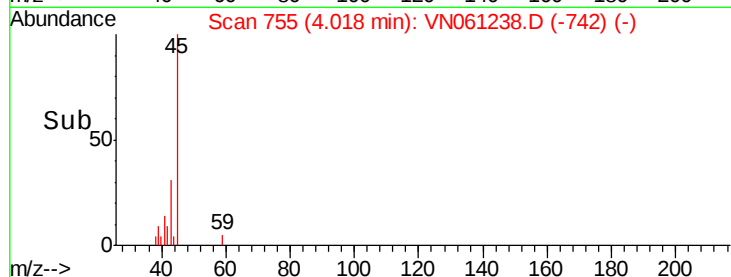
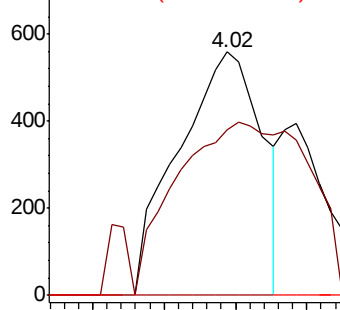
41 100

39 112.2 57.1 85.7#

76 0.0 24.3 36.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO  
Ion 75.90 (75.60 to 76.60): VNO



#18

Methyl Acetate

Concen: 2.304 ug/l

RT: 4.02 min Scan# 756

Delta R.T. -0.25 min

Lab File: VN061238.D

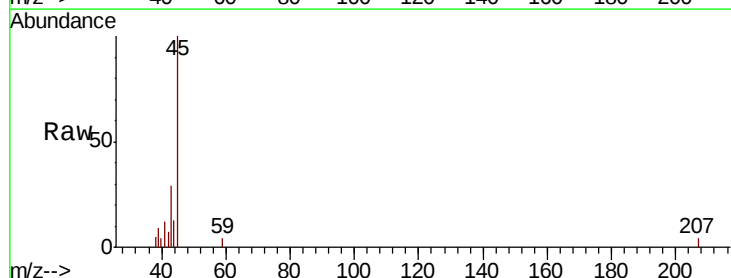
Acq: 1 May 2020 18:13

Tgt Ion: 43 Resp: 3501

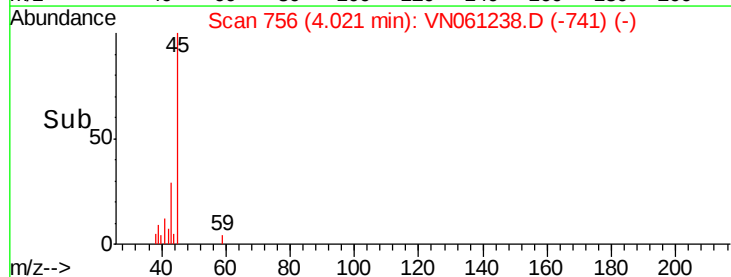
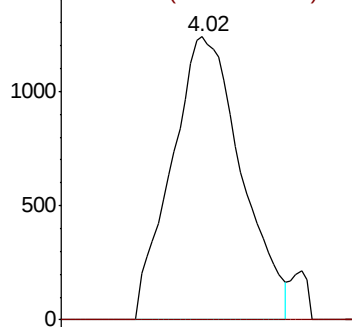
Ion Ratio Lower Upper

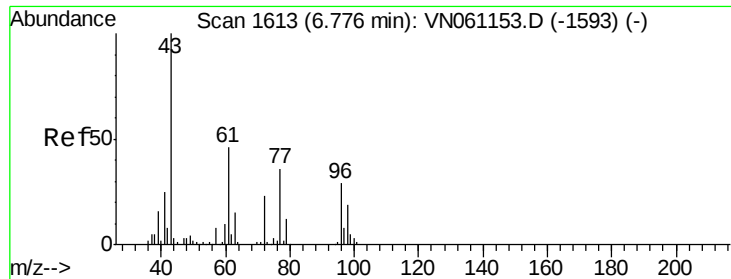
43 100

74 0.0 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 74.00 (73.70 to 74.70): VNO





#27

cis-1,2-Dichloroethene

Concen: 1.719 ug/l

RT: 6.78 min Scan# 1614

Delta R.T. 0.00 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

Instrument :

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SS040MW317-200428

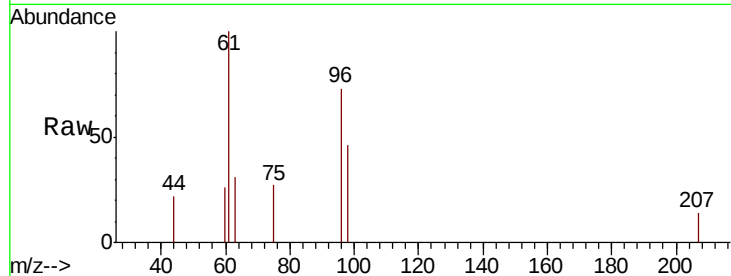
Tot Ion: 96 Resp: 2465

Ion Ratio Lower Upper

96 100

61 138.3 0.0 322.0

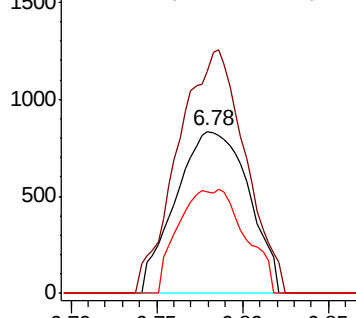
98 58.4 0.0 129.6



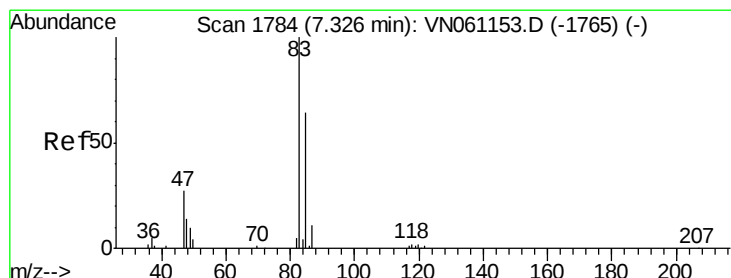
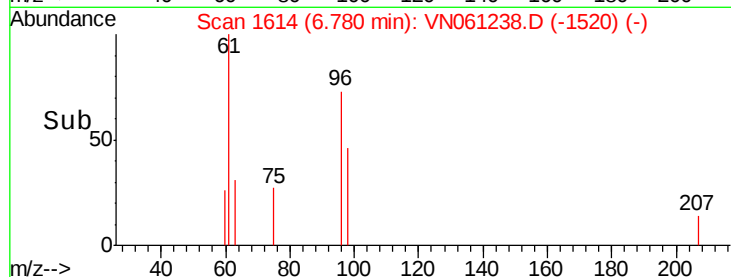
Abundance Ion 95.90 (95.60 to 96.60): VN061153.D (-1593) (-)

Ion 60.90 (60.60 to 61.60): VN061153.D (-1593) (-)

Ion 97.90 (97.60 to 98.60): VN061153.D (-1593) (-)



Time-->



#30

Chloroform

Concen: 0.321 ug/l

RT: 7.33 min Scan# 1786

Delta R.T. 0.01 min

Lab File: VN061238.D

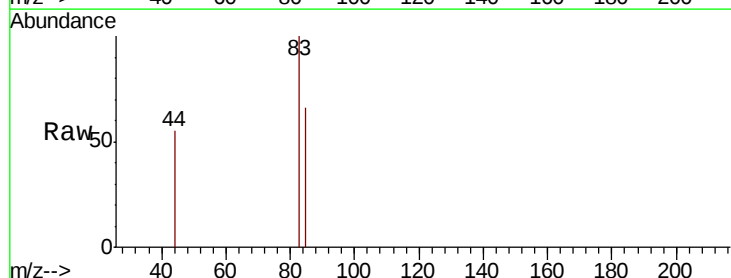
Acq: 1 May 2020 18:13

Tgt Ion: 83 Resp: 821

Ion Ratio Lower Upper

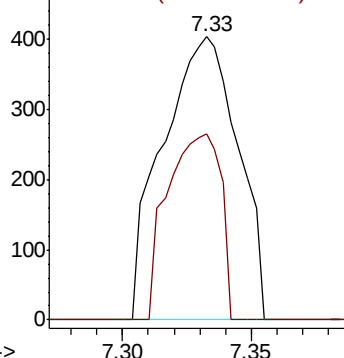
83 100

85 66.0 51.1 76.7

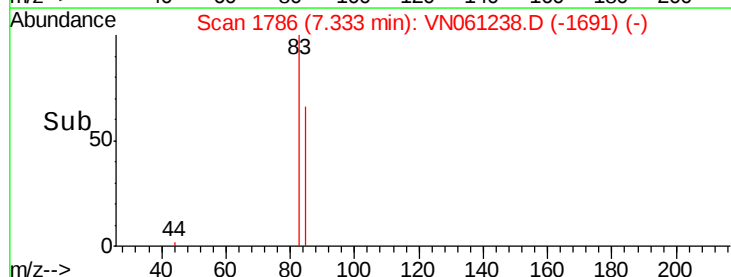


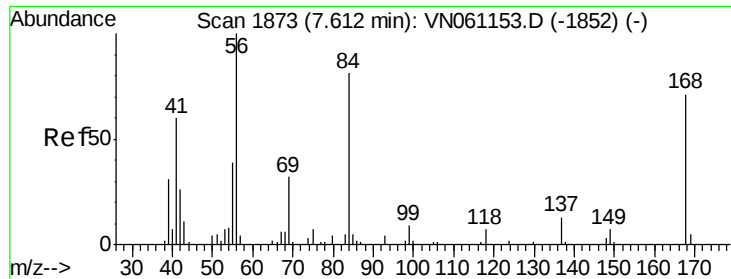
Abundance Ion 82.90 (82.60 to 83.60): VN061153.D (-1765) (-)

Ion 84.90 (84.60 to 85.60): VN061153.D (-1765) (-)



Time-->

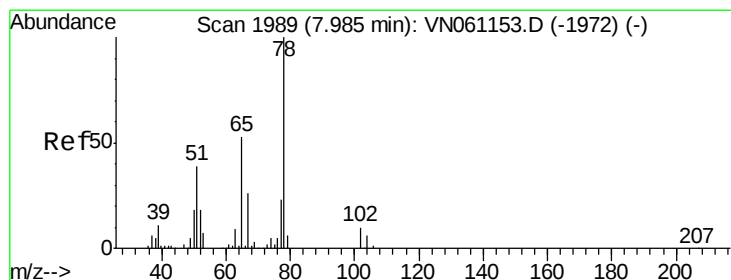
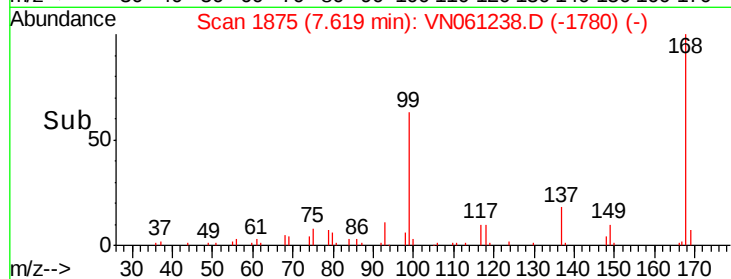
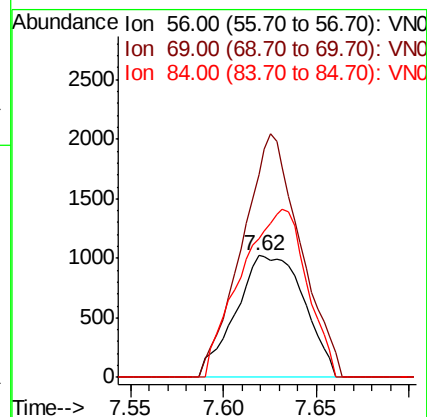
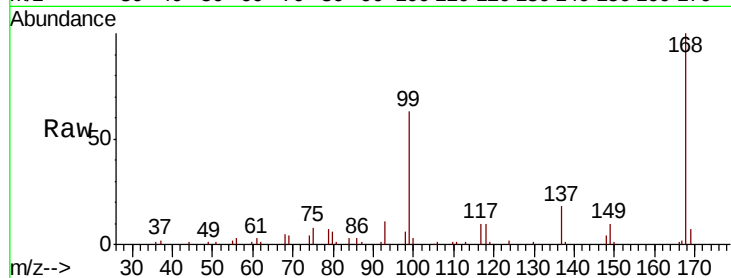




#31  
Cyclohexane  
Concen: 1.070 ug/l  
RT: 7.62 min Scan# 1875  
Delta R.T. 0.01 min  
Lab File: VN061238.D  
Acq: 1 May 2020 18:13

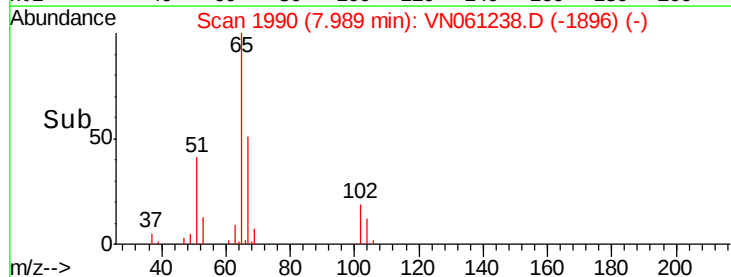
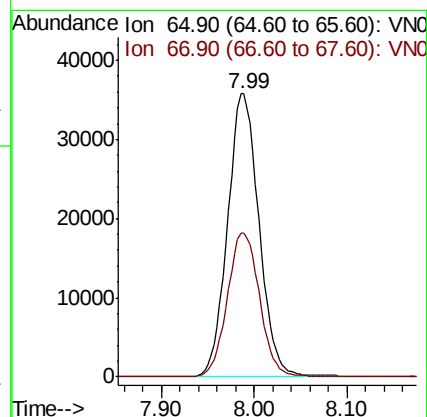
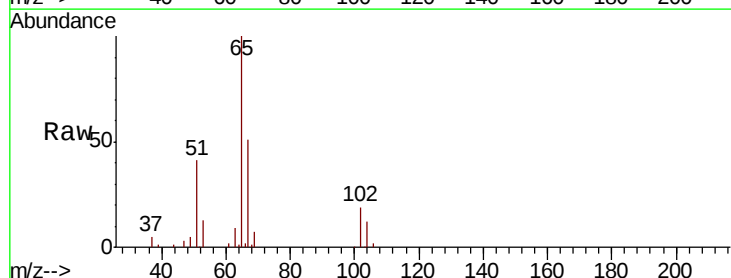
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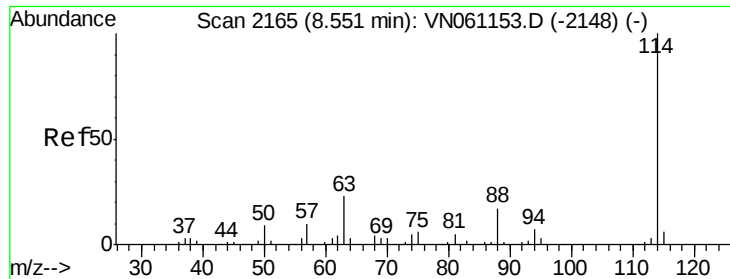
Tot Ion: 56 Resp: 2621  
Ion Ratio Lower Upper  
56 100  
69 166.7 25.7 38.5#  
84 114.1 64.6 97.0#



#33  
1,2-Dichloroethane-d4  
Concen: 50.023 ug/l  
RT: 7.99 min Scan# 1990  
Delta R.T. 0.00 min  
Lab File: VN061238.D  
Acq: 1 May 2020 18:13

Tgt Ion: 65 Resp: 84201  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 101.6

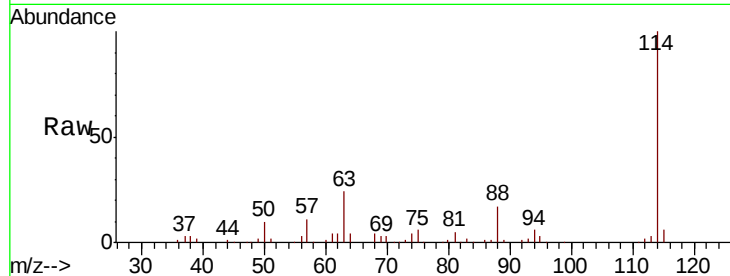




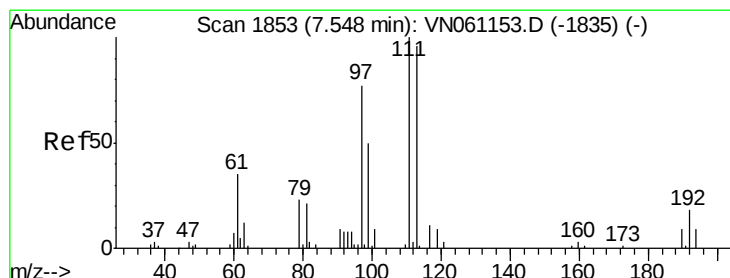
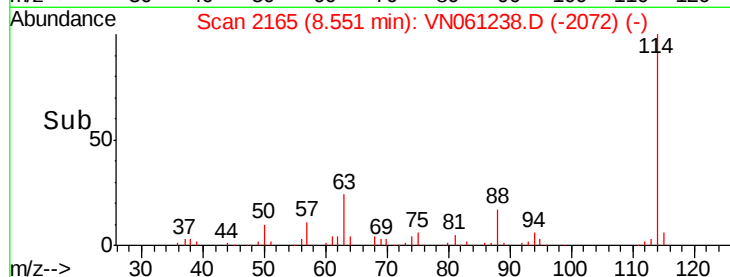
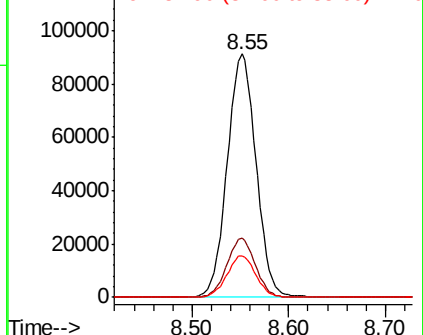
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2165  
 Delta R.T. 0.00 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

Instrument :  
 MSVOA\_N  
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Tot Ion:114 Resp: 189288  
 Ion Ratio Lower Upper  
 114 100  
 63 24.1 0.0 46.6  
 88 17.0 0.0 33.4

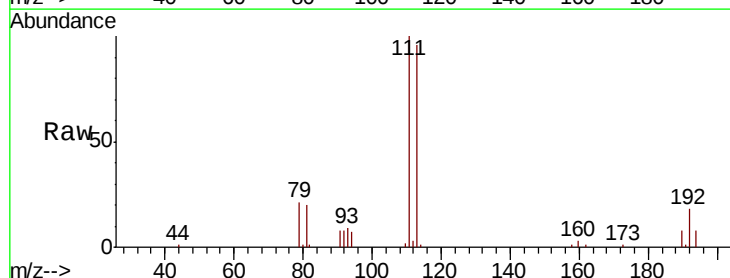


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

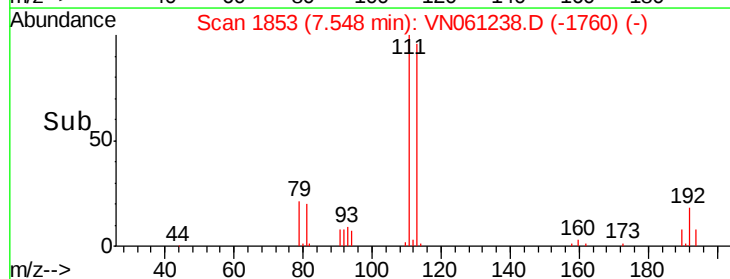
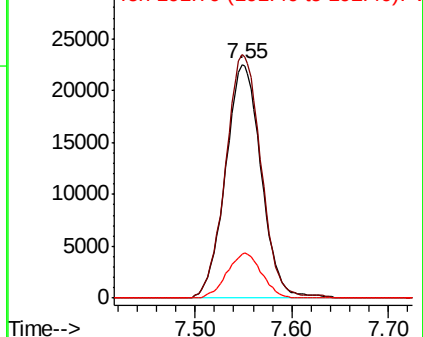


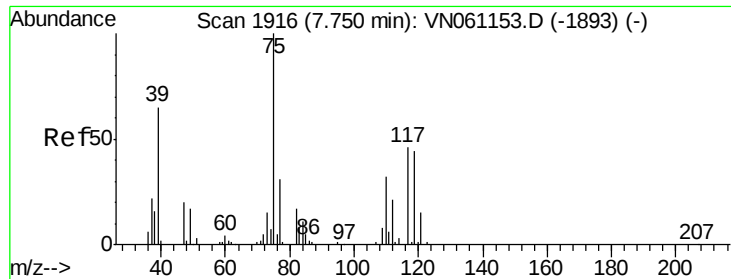
#35  
 Dibromofluoromethane  
 Concen: 51.475 ug/l  
 RT: 7.55 min Scan# 1853  
 Delta R.T. 0.00 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

Tgt Ion:113 Resp: 57616  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 82.9 124.3  
 192 18.7 14.7 22.1



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

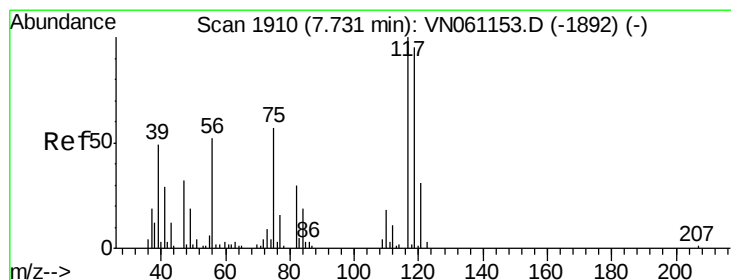
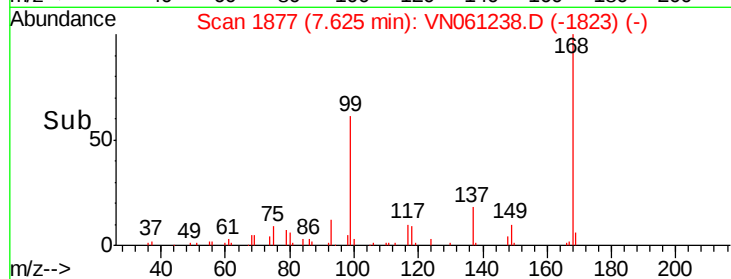
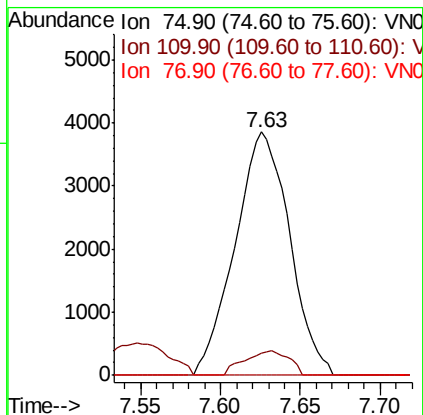
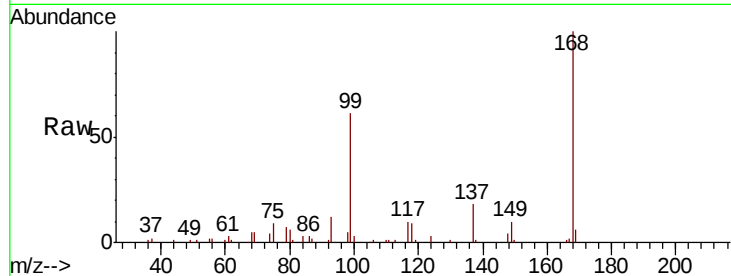




#36  
 1,1-Dichloropropene  
 Concen: 4.750 ug/l  
 RT: 7.63 min Scan# 1877  
 Delta R.T. -0.13 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

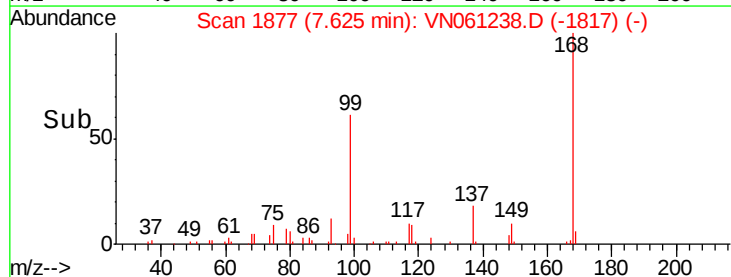
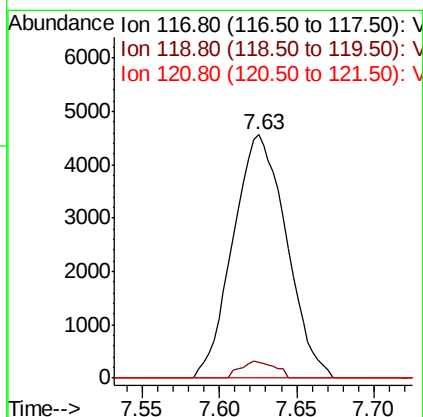
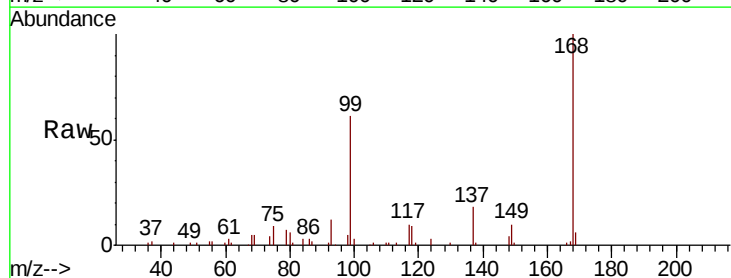
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS040MW317-200428

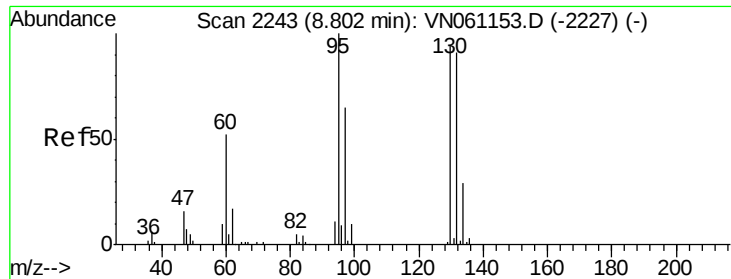
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.3   | 16.0  | 48.0# |
| 77      | 0.0   | 24.6  | 37.0# |



#38  
 Carbon Tetrachloride  
 Concen: 8.327 ug/l  
 RT: 7.63 min Scan# 1877  
 Delta R.T. -0.11 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.5   | 75.8  | 113.6# |
| 121     | 0.0   | 24.7  | 37.1#  |





#44

Trichloroethene

Concen: 3.871 ug/l

RT: 8.80 min Scan# 2243

Delta R.T. 0.00 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

Instrument :

MSVOA\_N

ClientSampleId :

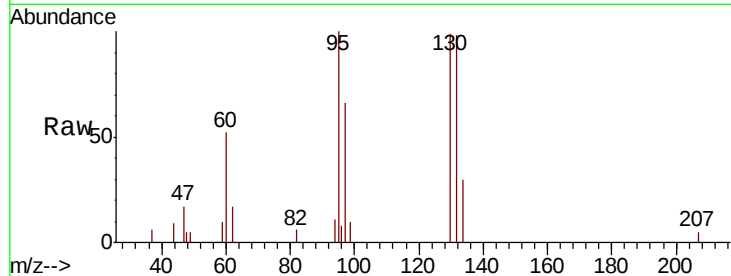
SS040MW317-200428

Tot Ion:130 Resp: 5908

Ion Ratio Lower Upper

130 100

95 101.5 0.0 212.4



Abundance Ion 129.80 (129.50 to 130.50): VN061153.D (-2227) (-)

Ion 94.90 (94.60 to 95.60): VN061153.D (-2227) (-)

8.80

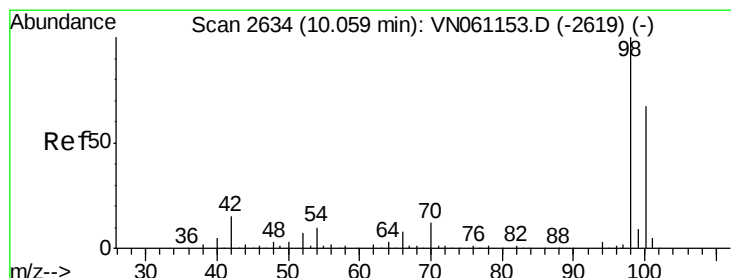
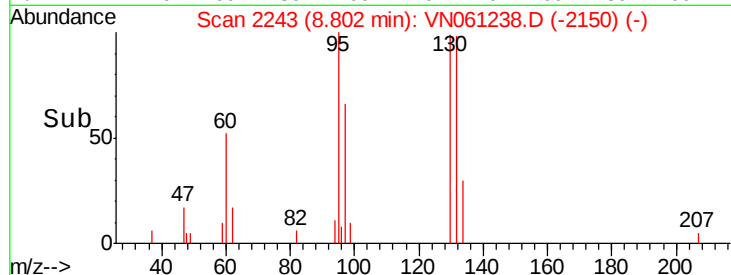
3000

2000

1000

0

Time-->



#50

Toluene-d8

Concen: 51.985 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061238.D

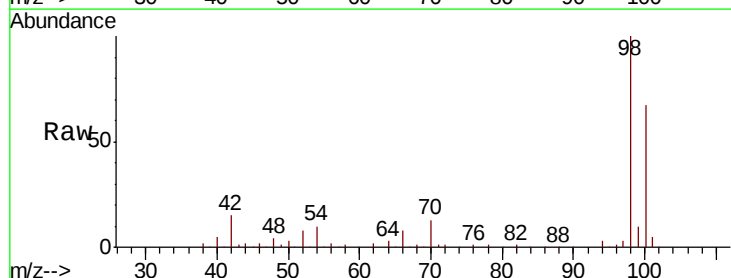
Acq: 1 May 2020 18:13

Tgt Ion: 98 Resp: 237200

Ion Ratio Lower Upper

98 100

100 66.3 53.4 80.0



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

Ion 100.00 (99.70 to 100.70): VN061153.D (-2619) (-)

10.06

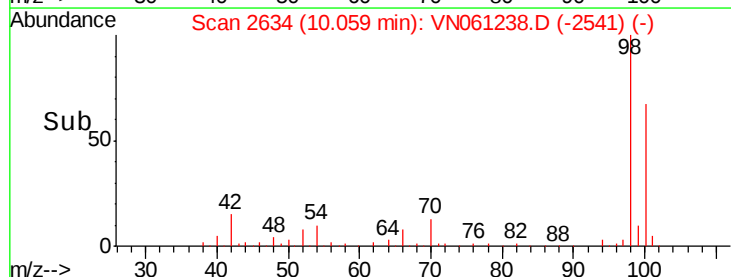
150000

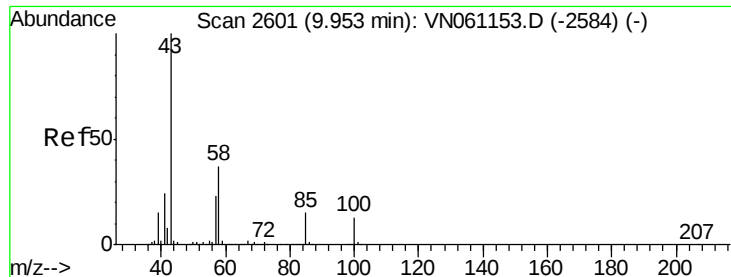
100000

50000

0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.592 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.11 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

Instrument :

MSVOA\_N

ClientSampleId :

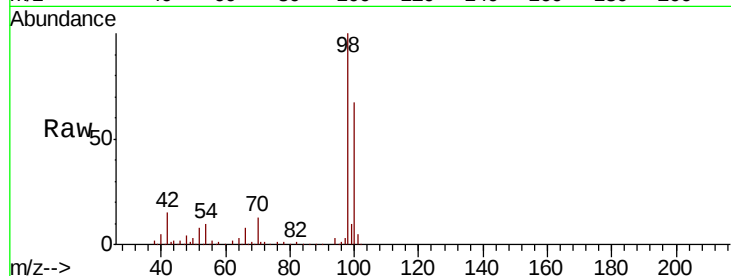
SS040MW317-200428

Tot Ion: 43 Resp: 1285

Ion Ratio Lower Upper

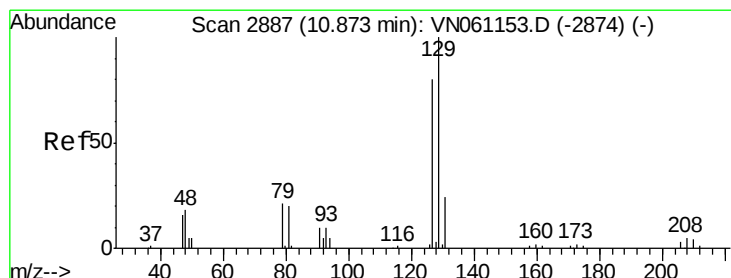
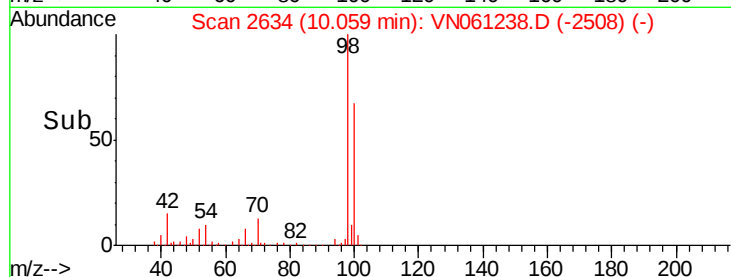
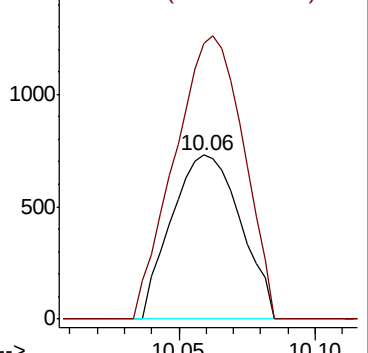
43 100

58 171.4 29.1 43.7#



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

Ion 58.00 (57.70 to 58.70): VN061153.D (-2584) (-)



#60

Dibromochloromethane

Concen: 9.238 ug/l

RT: 10.60 min Scan# 2803

Delta R.T. -0.27 min

Lab File: VN061238.D

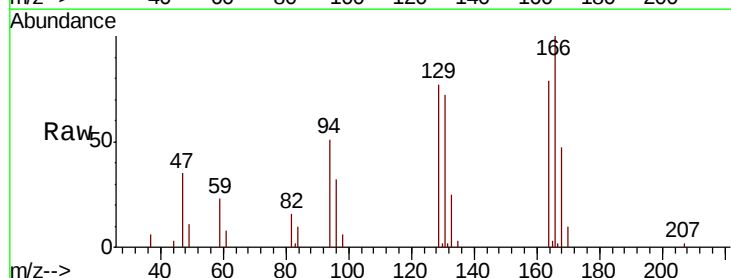
Acq: 1 May 2020 18:13

Tgt Ion: 129 Resp: 13123

Ion Ratio Lower Upper

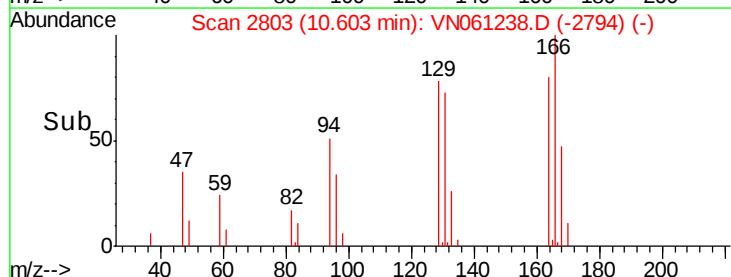
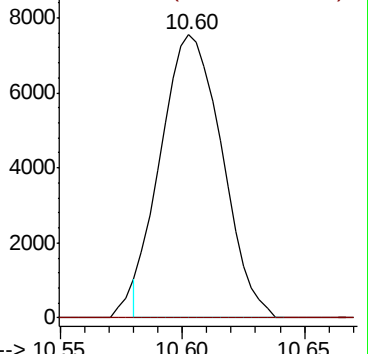
129 100

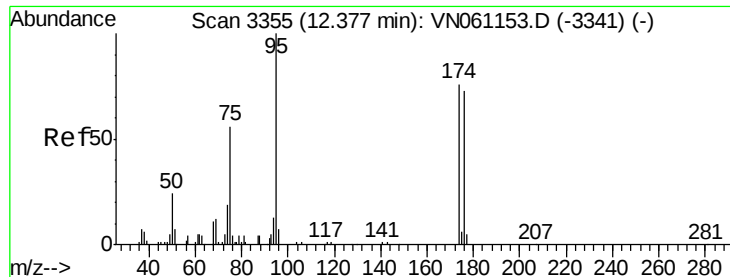
127 0.0 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): VN061153.D (-2874) (-)

Ion 126.80 (126.50 to 127.50): VN061153.D (-2874) (-)

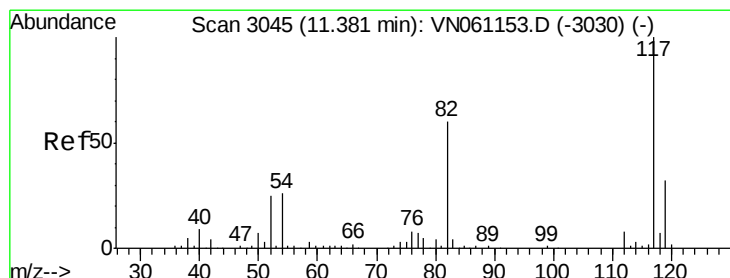
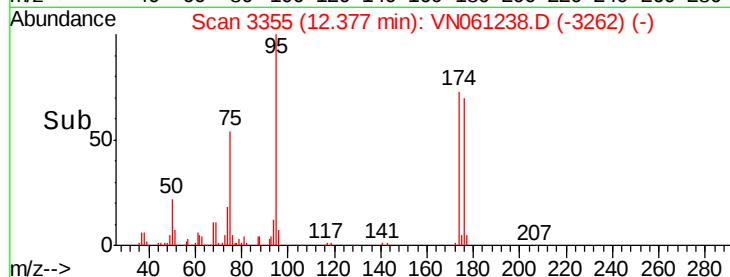
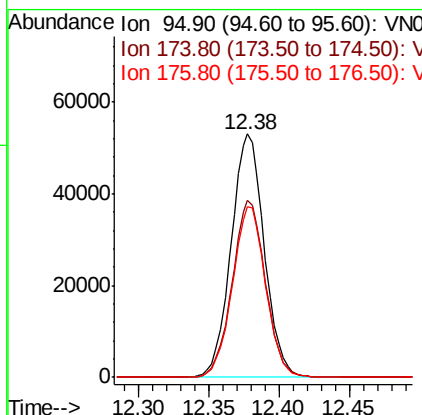
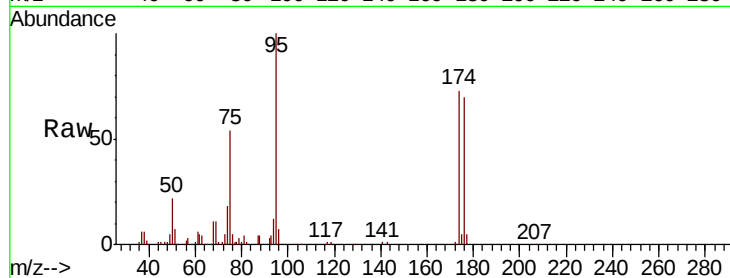




#62  
 4-Bromofluorobenzene  
 Concen: 50.641 ug/l  
 RT: 12.38 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

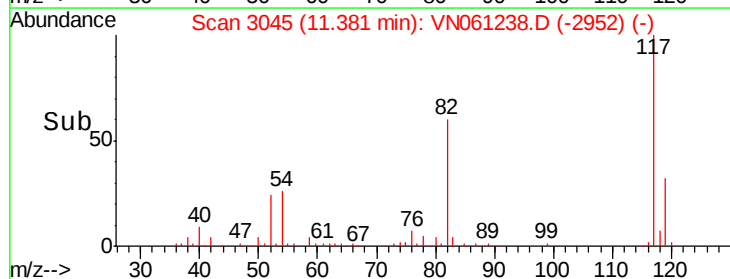
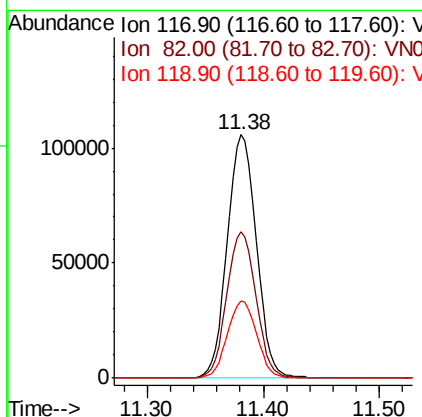
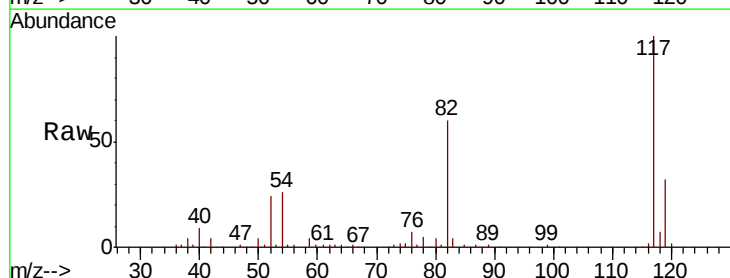
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS040MW317-200428

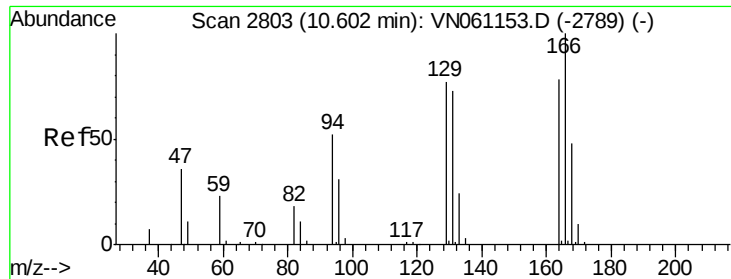
| Tot Ion   | 95   | Resp  | 86955 |
|-----------|------|-------|-------|
| Ion Ratio | 100  |       |       |
| Lower     |      | 0.0   |       |
| Upper     |      | 149.4 |       |
| 174       | 72.9 |       |       |
| 176       | 70.7 |       |       |
|           |      | 0.0   | 144.8 |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.38 min Scan# 3045  
 Delta R.T. 0.00 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

| Tgt Ion   | 117  | Resp | 183711 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     |      | 47.8 |        |
| Upper     |      | 71.8 |        |
| 82        | 59.9 |      |        |
| 119       | 31.6 |      |        |
|           |      | 25.8 | 38.6   |





#64

Tetrachloroethene

Concen: 8.549 ug/l

RT: 10.60 min Scan# 2803

Delta R.T. 0.00 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

Instrument :

MSVOA\_N

ClientSampleId :

SS040MW317-200428

Tot Ion:164 Resp: 13603

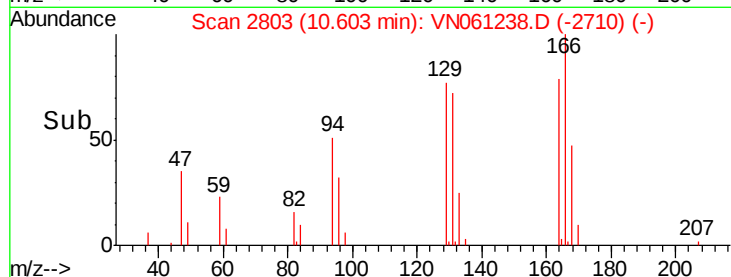
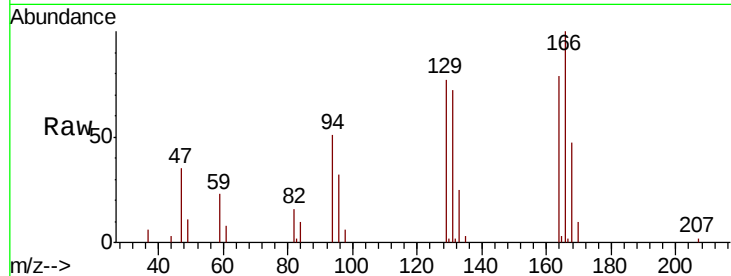
Ion Ratio Lower Upper

164 100

166 126.1 102.0 153.0

129 97.1 78.2 117.2

131 91.2 74.5 111.7

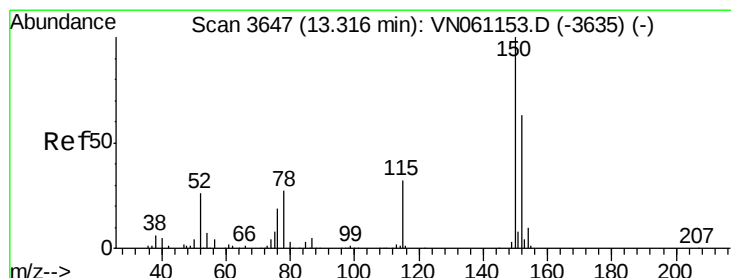
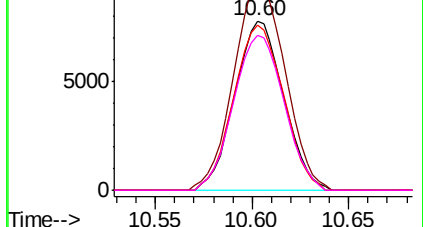


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3648

Delta R.T. 0.00 min

Lab File: VN061238.D

Acq: 1 May 2020 18:13

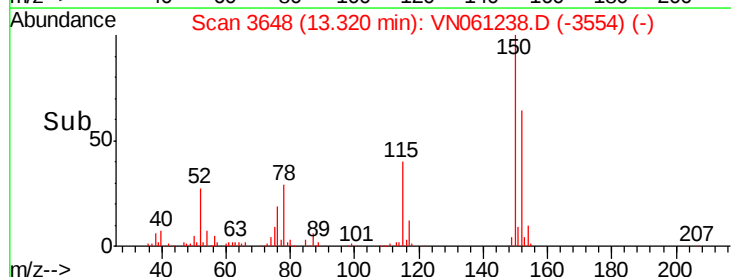
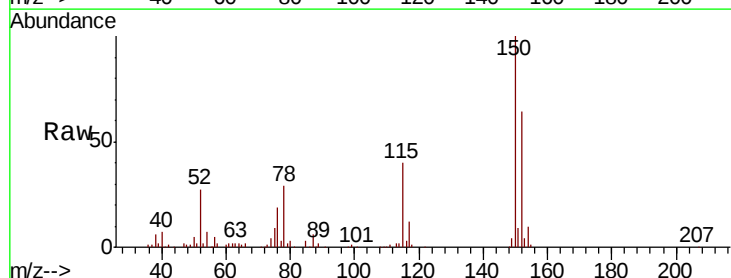
Tgt Ion:152 Resp: 81309

Ion Ratio Lower Upper

152 100

115 61.1 31.0 93.0

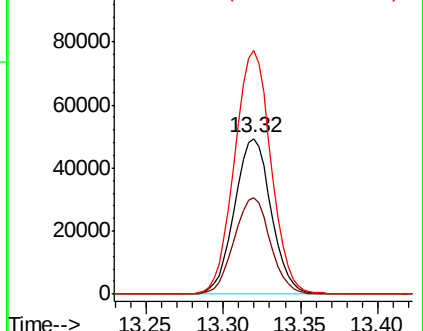
150 156.2 0.0 351.8

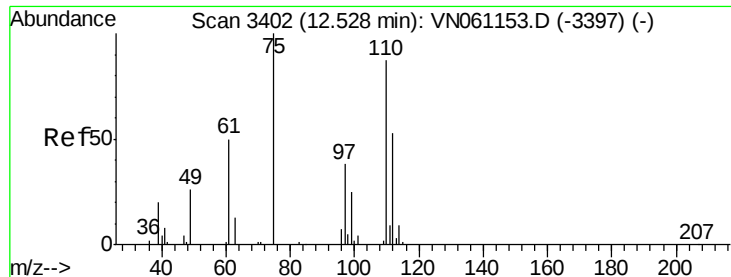


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

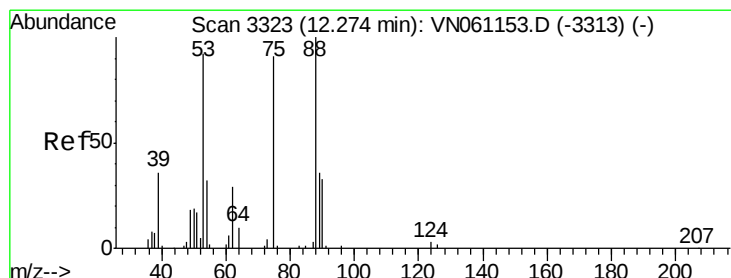
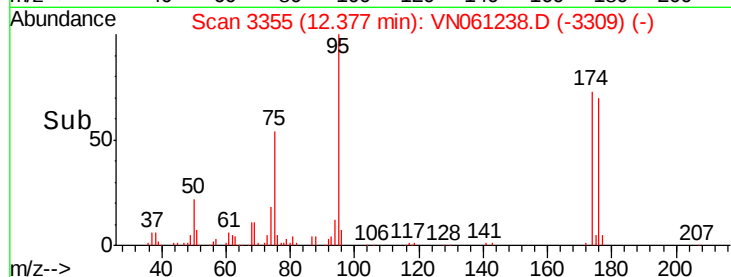
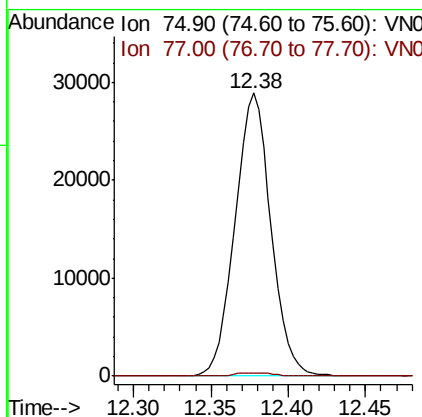
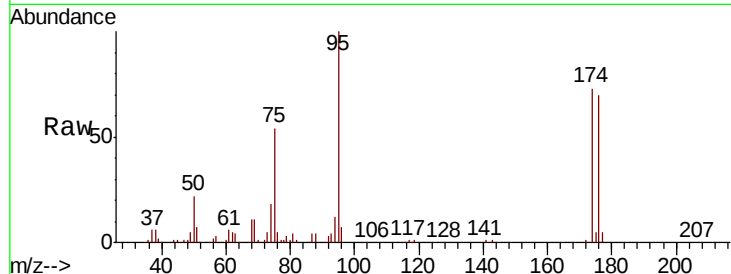




#76  
 1,2,3-Trichloropropane  
 Concen: 27.138 ug/l  
 RT: 12.38 min Scan# 3355  
 Delta R.T. -0.15 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS040MW317-200428

Tot Ion: 75 Resp: 46521  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.917 ug/l  
 RT: 12.38 min Scan# 3355  
 Delta R.T. 0.10 min  
 Lab File: VN061238.D  
 Acq: 1 May 2020 18:13

Tgt Ion: 75 Resp: 46521  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 84.1 126.1#  
 89 0.0 35.2 52.8#

