

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\  
 Data File : VN061452.D  
 Acq On : 19 May 2020 1:05  
 Operator : JC/MD  
 Sample : VN0518WBL02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0518WBL02

Quant Time: May 19 03:34:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.62  | 168  | 238897   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.55  | 114  | 437526   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.38 | 117  | 425487   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.32 | 152  | 179297   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.98  | 65   | 168884   | 47.37     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 94.74%  |          |
| 35) Dibromofluoromethane       | 7.54  | 113  | 124429   | 54.29     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 108.58% |          |
| 50) Toluene-d8                 | 10.06 | 98   | 553380   | 52.05     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.10% |          |
| 62) 4-Bromofluorobenzene       | 12.37 | 95   | 207907   | 52.34     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.68% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 3) Chloromethane               | 2.03  | 50   | 785      | 0.242     | ug/l #  | 54       |
| 5) Bromomethane                | 2.55  | 94   | 1130     | Below Cal | #       | 62       |
| 10) Methyl Iodide              | 3.91  | 142  | 609      | 0.214     | ug/l #  | 82       |
| 13) Acrolein                   | 3.58  | 56   | 259      | Below Cal | #       | 30       |
| 15) Acrylonitrile              | 4.93  | 53   | 745      | 0.612     | ug/l #  | 71       |
| 16) Acetone                    | 3.76  | 43   | 1062     | Below Cal | #       | 87       |
| 17) Carbon Disulfide           | 4.01  | 76   | 2813     | Below Cal | #       | 75       |
| 18) Methyl Acetate             | 4.27  | 43   | 275      | Below Cal | #       | 49       |
| 21) trans-1,2-Dichloroethene   | 4.99  | 96   | 615      | 0.218     | ug/l #  | 33       |
| 25) 2-Butanone                 | 6.77  | 43   | 567      | 0.349     | ug/l #  | 46       |
| 29) Tetrahydrofuran            | 7.17  | 42   | 598      | 0.556     | ug/l #  | 78       |
| 31) Cyclohexane                | 7.61  | 56   | 5902     | Below Cal | #       | 17       |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 20527    | 5.018     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 26307    | 6.983     | ug/l #  | 15       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 275      | Below Cal | #       | 83       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 1726     | 0.490     | ug/l    | 91       |
| 59) 2-Hexanone                 | 10.72 | 43   | 3133     | 1.228     | ug/l    | 75       |
| 71) Bromoform                  | 12.37 | 173  | 1525     | 2.625     | ug/l #  | 1        |
| 74) N-amyl acetate             | 12.04 | 43   | 1207     | 0.229     | ug/l #  | 85       |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75   | 110347   | 28.682    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 110347   | 76.087    | ug/l #  | 12       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 2300     | 0.229     | ug/l    | 95       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 4365     | 0.320     | ug/l    | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 3658     | 0.302     | ug/l    | 95       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 1675     | 0.293     | ug/l    | 86       |
| 88) 1,4-Dichlorobenzene        | 13.26 | 146  | 1675     | 0.293     | ug/l    | 85       |
| 89) n-Butylbenzene             | 13.59 | 91   | 6302     | 0.572     | ug/l    | 100      |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 1719     | 0.313     | ug/l    | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 292      | 0.365     | ug/l #  | 50       |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180  | 3295     | 1.108     | ug/l    | 93       |
| 94) Hexachlorobutadiene        | 14.98 | 225  | 2389     | 1.808     | ug/l    | 93       |
| 95) Naphthalene                | 15.10 | 128  | 15692    | 1.660     | ug/l    | 98       |
| 96) 1,2,3-Trichlorobenzene     | 15.29 | 180  | 3566     | 1.205     | ug/l    | 96       |

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Quant Title : SW846 8260  
QLast Update : Mon May 18 13:09:55 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

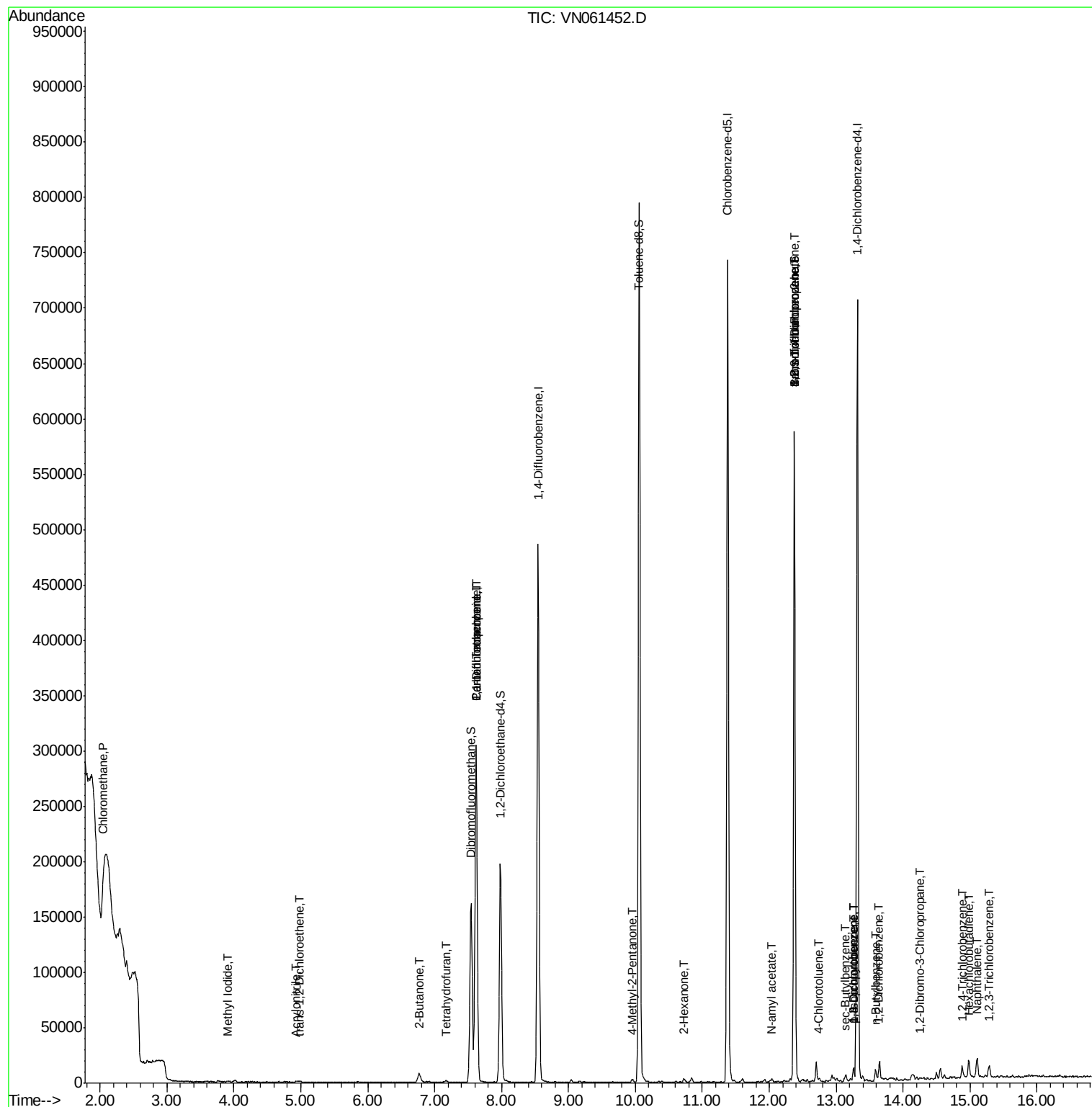
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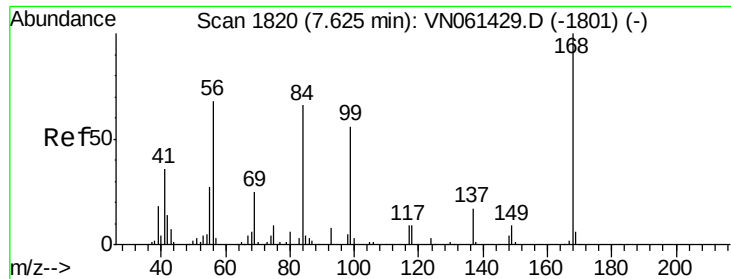
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 19 03:34:55 2020  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

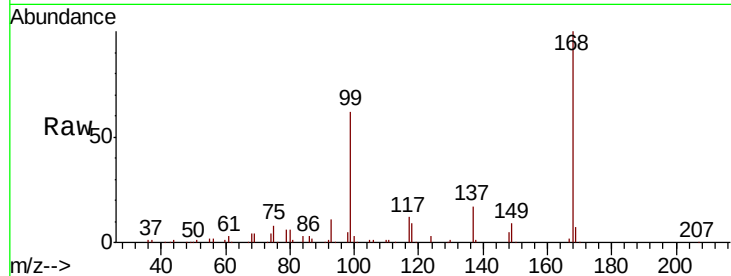
VN0518WBL02

Tot Ion:168 Resp: 238897

Ion Ratio Lower Upper

168 100

99 61.5 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

100000

80000

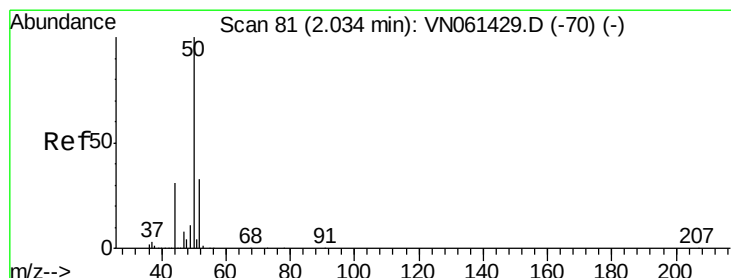
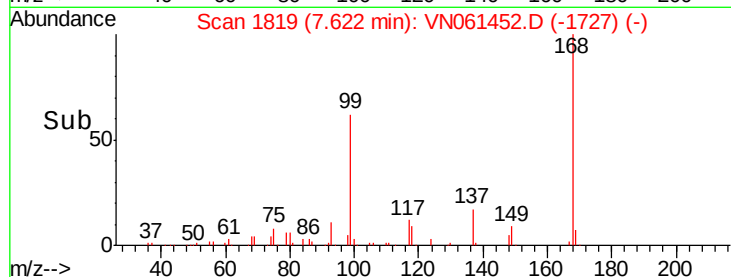
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.242 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061452.D

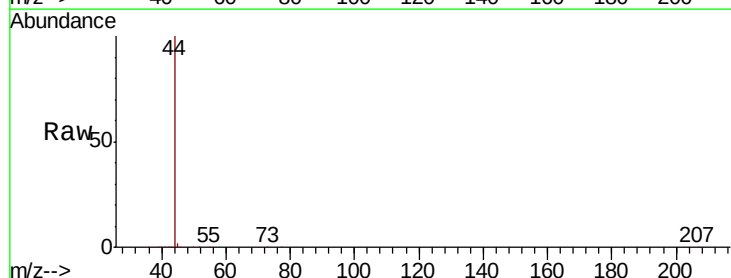
Acq: 19 May 2020 1:05

Tgt Ion: 50 Resp: 785

Ion Ratio Lower Upper

50 100

52 59.6 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

600

500

400

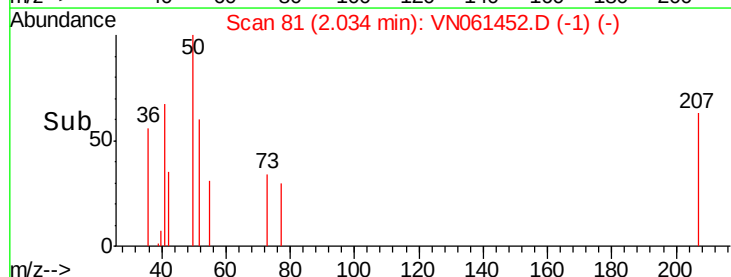
300

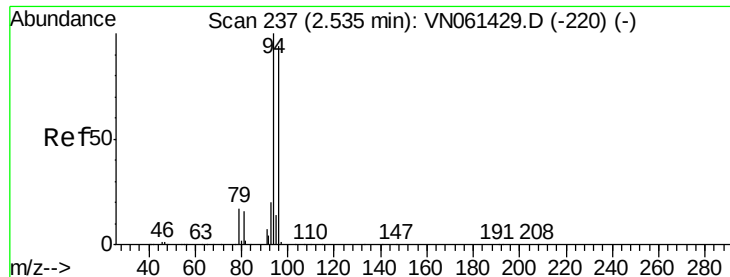
200

100

0

Time--> 2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

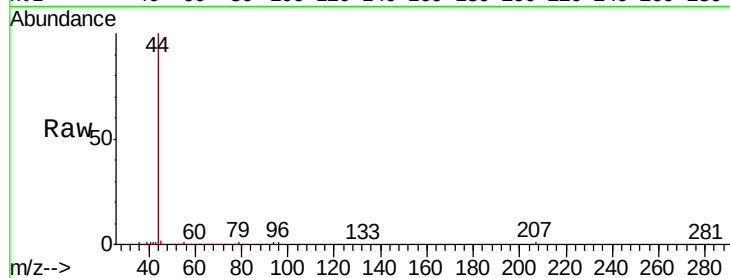
VN0518WBL02

Tot Ion: 94 Resp: 1130

Ion Ratio Lower Upper

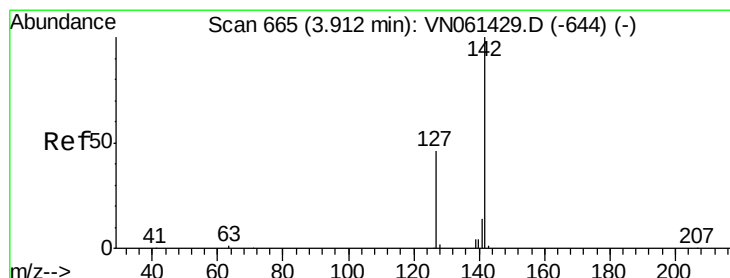
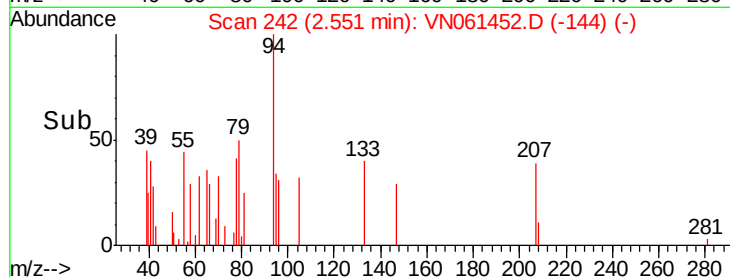
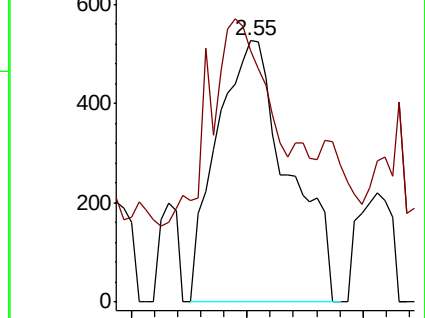
94 100

96 57.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.214 ug/l

RT: 3.91 min Scan# 665

Delta R.T. 0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

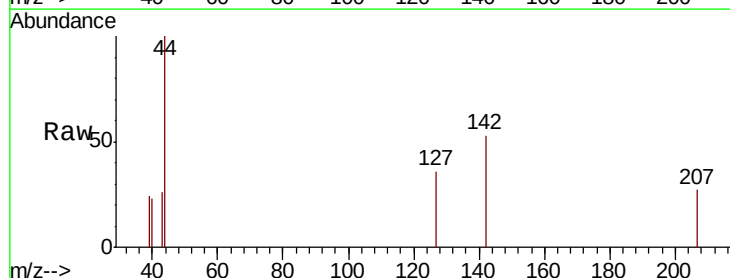
Tgt Ion: 142 Resp: 609

Ion Ratio Lower Upper

142 100

127 37.4 36.7 55.1

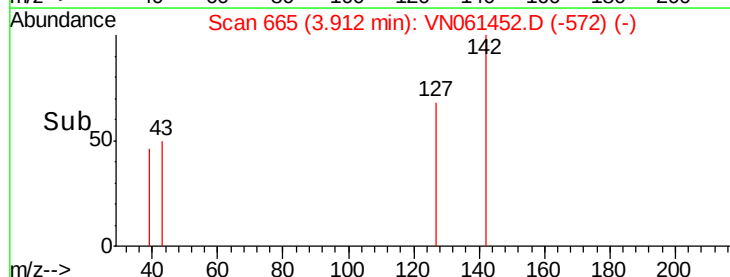
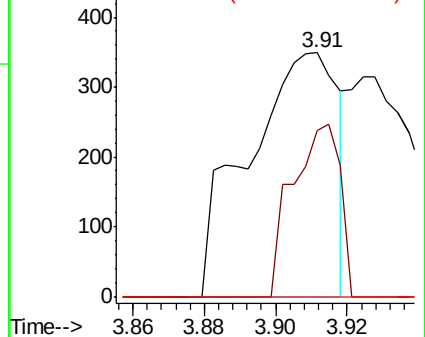
141 0.0 11.5 17.3#

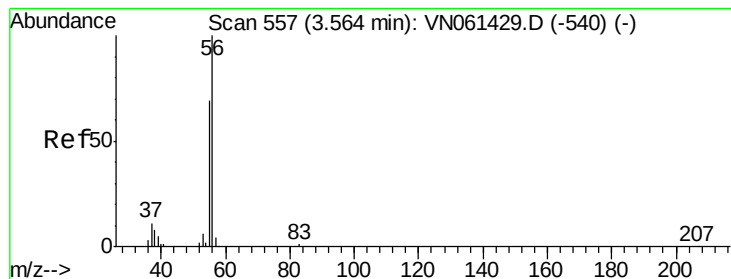


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: Below Cal

RT: 3.58 min Scan# 561

Delta R.T. 0.01 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

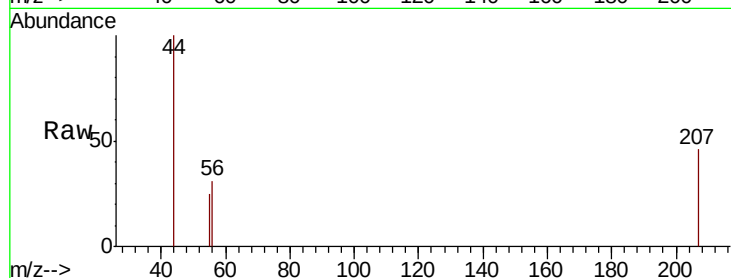
VN0518WBL02

Tot Ion: 56 Resp: 259

Ion Ratio Lower Upper

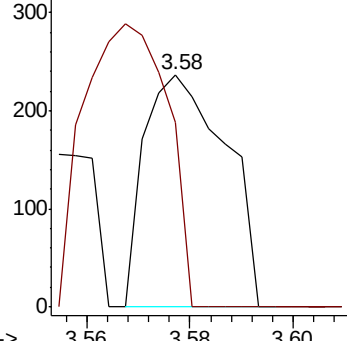
56 100

55 125.1 54.8 82.2#

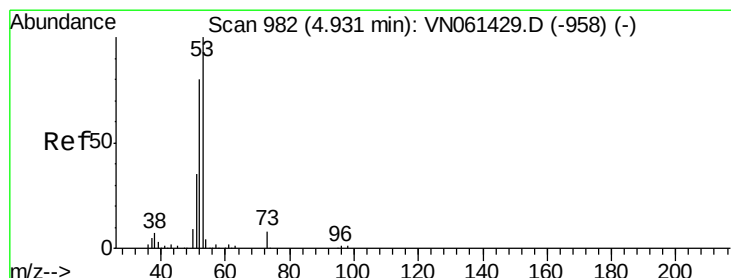
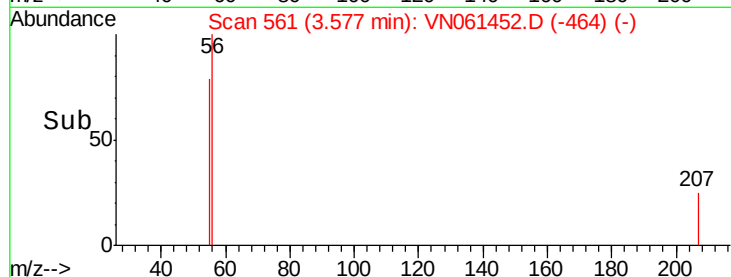


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#15

Acrylonitrile

Concen: 0.612 ug/l

RT: 4.93 min Scan# 981

Delta R.T. -0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

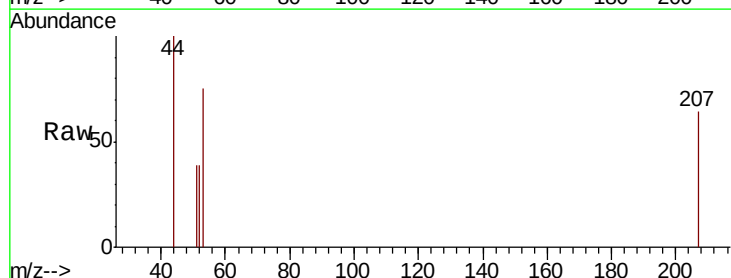
Tgt Ion: 53 Resp: 745

Ion Ratio Lower Upper

53 100

52 58.8 64.7 97.1#

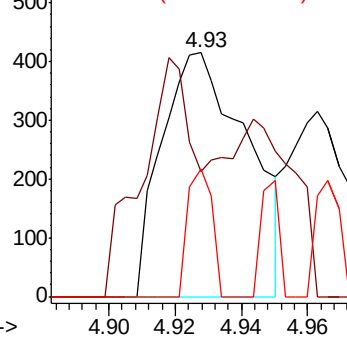
51 14.9 29.5 44.3#



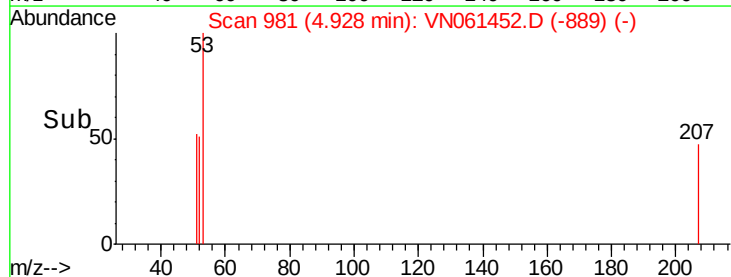
Abundance Ion 53.00 (52.70 to 53.70): VN0

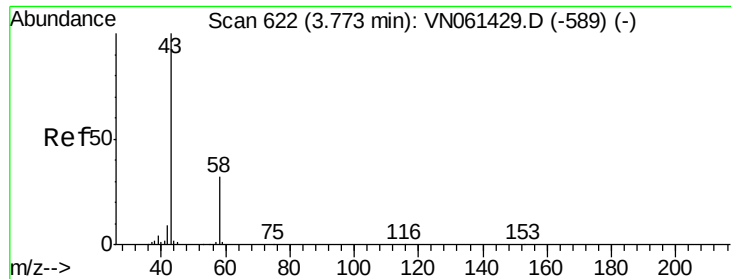
Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



Time-->





#16

Acetone

Concen: Below Cal

RT: 3.76 min Scan# 618

Delta R.T. -0.01 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

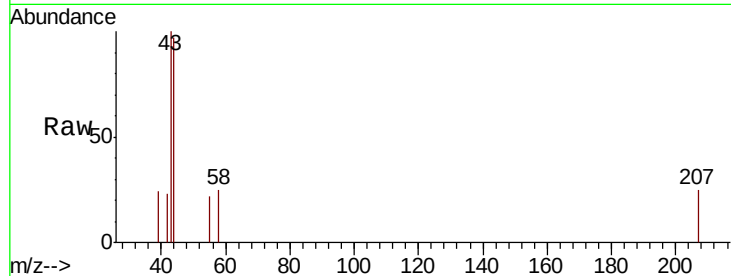
VN0518WBL02

Tot Ion: 43 Resp: 1062

Ion Ratio Lower Upper

43 100

58 24.9 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.76

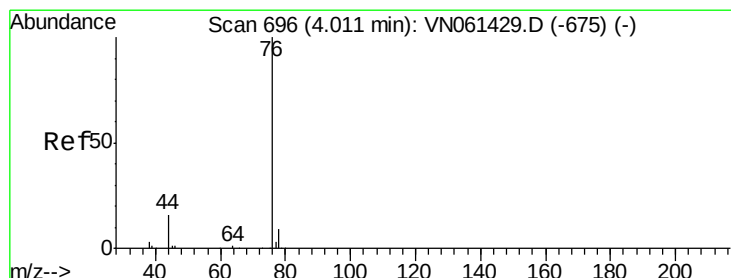
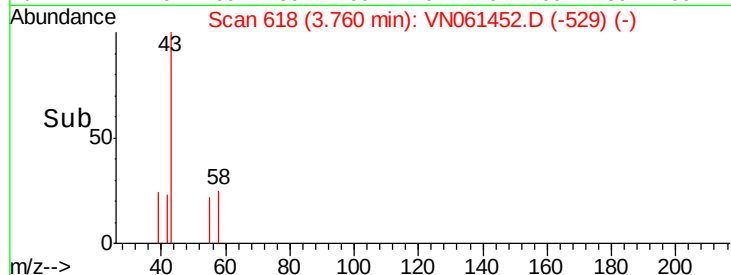
600

400

200

0

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 695

Delta R.T. -0.00 min

Lab File: VN061452.D

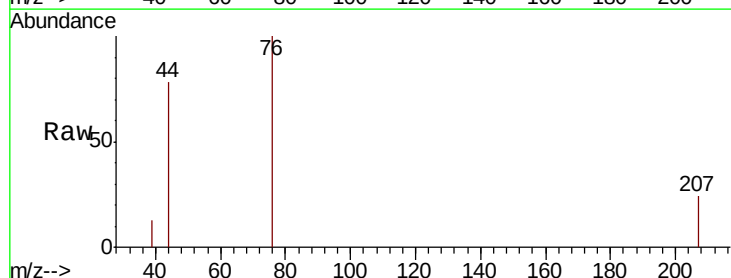
Acq: 19 May 2020 1:05

Tgt Ion: 76 Resp: 2813

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

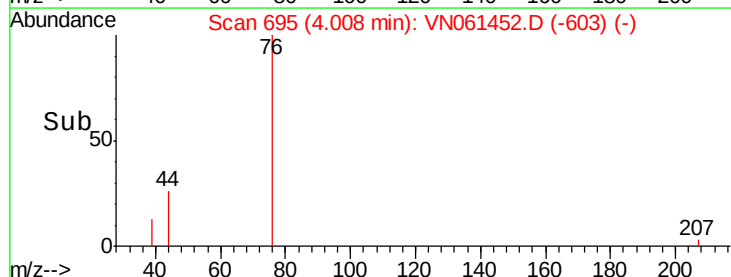
4.01

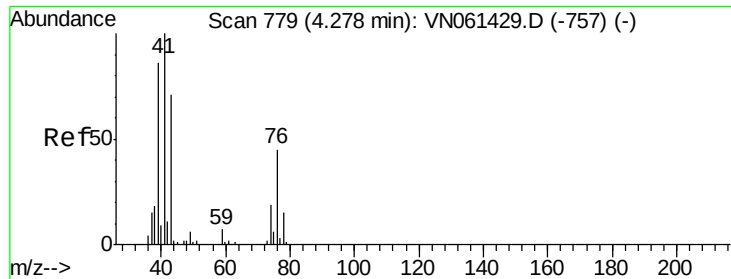
1000

500

0

Time-->

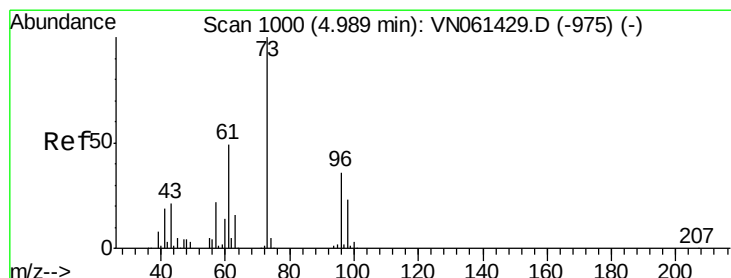
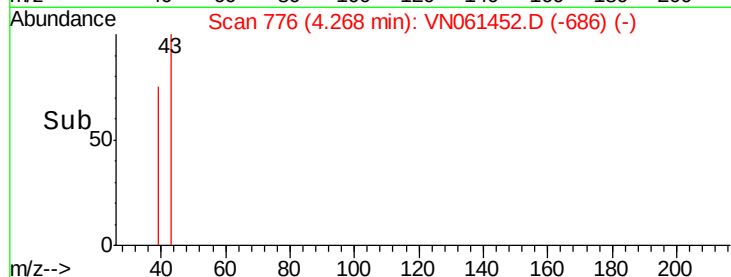
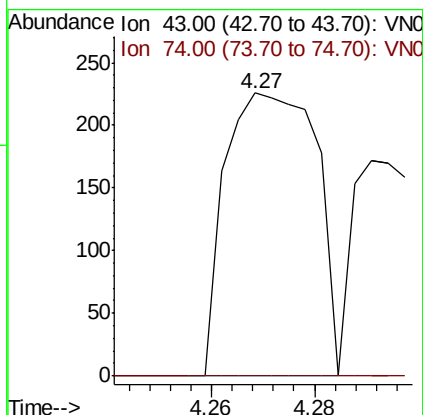
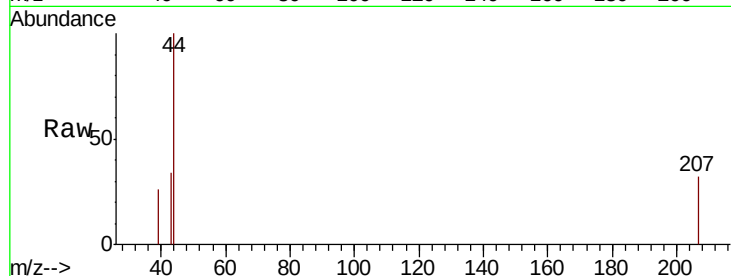




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.27 min Scan# 776  
Delta R.T. -0.01 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

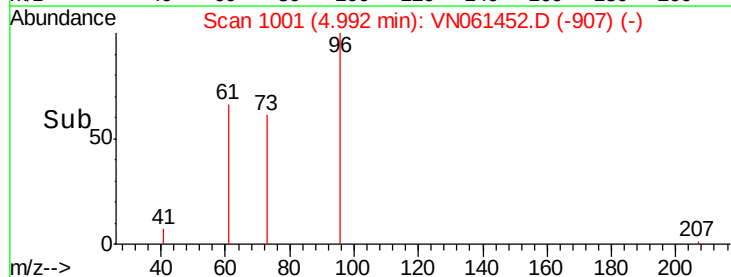
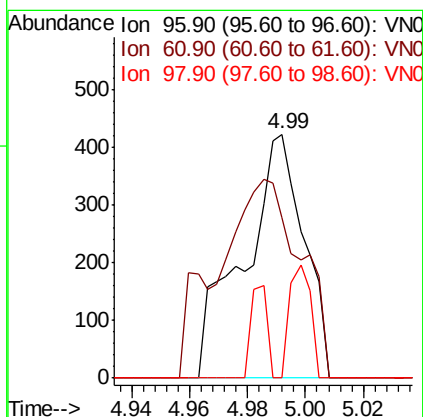
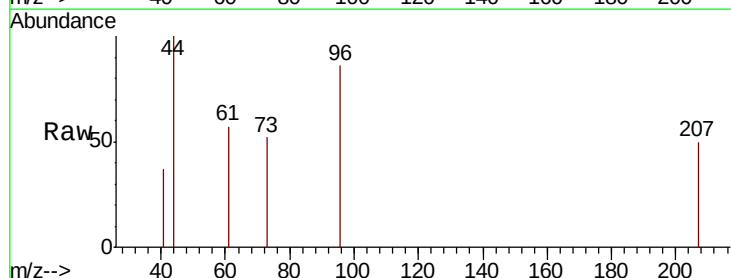
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0518WBL02

Tot Ion: 43 Resp: 275  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.8 31.2#

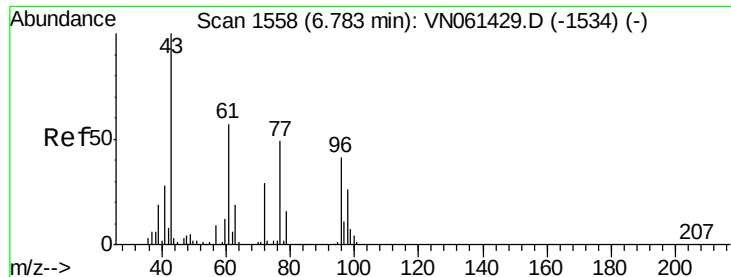


#21  
trans-1,2-Dichloroethene  
Concen: 0.218 ug/l  
RT: 4.99 min Scan# 1001  
Delta R.T. 0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

Tgt Ion: 96 Resp: 615  
Ion Ratio Lower Upper  
96 100  
61 66.0 109.8 164.6#  
98 0.0 52.4 78.6#



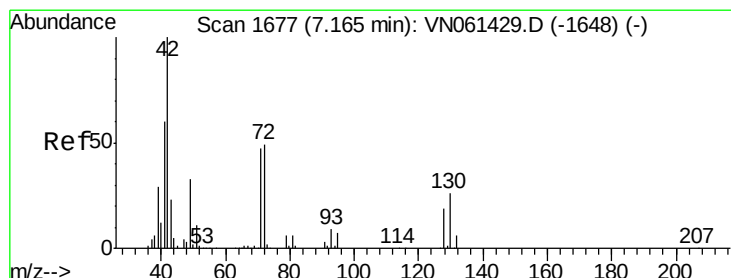
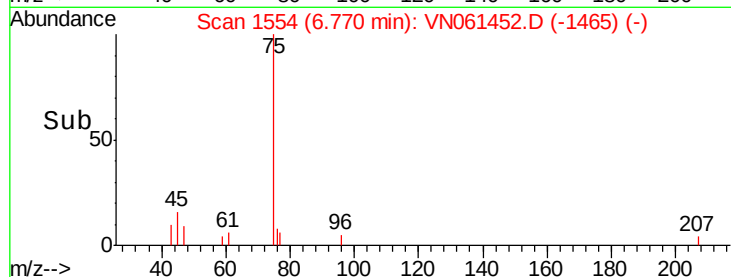
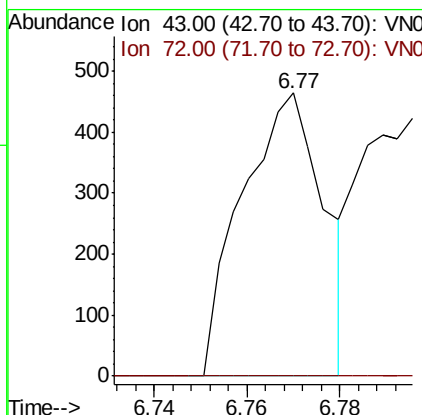
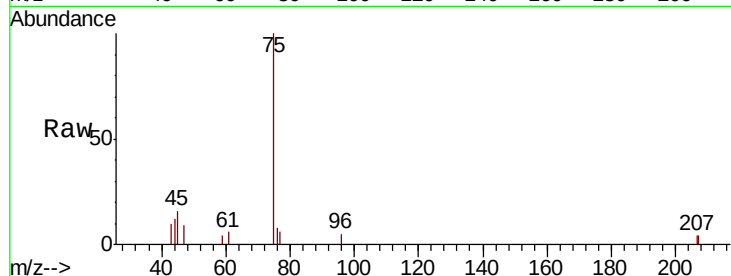




#25  
 2-Butanone  
 Concen: 0.349 ug/l  
 RT: 6.77 min Scan# 1554  
 Delta R.T. -0.01 min  
 Lab File: VN061452.D  
 Acq: 19 May 2020 1:05

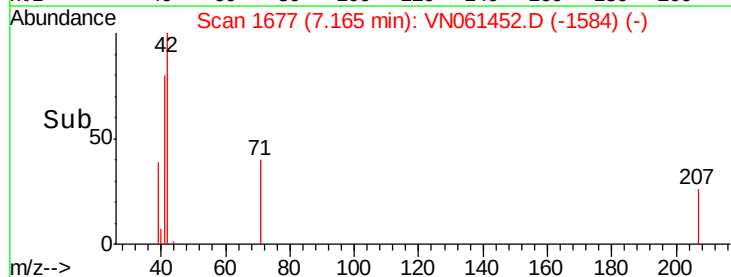
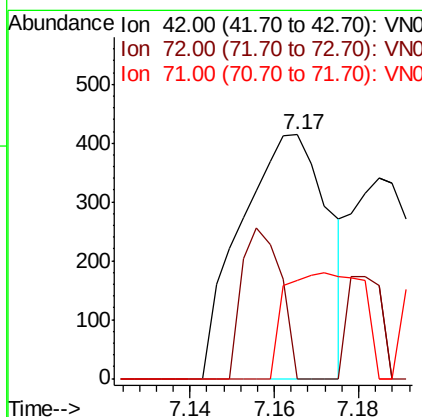
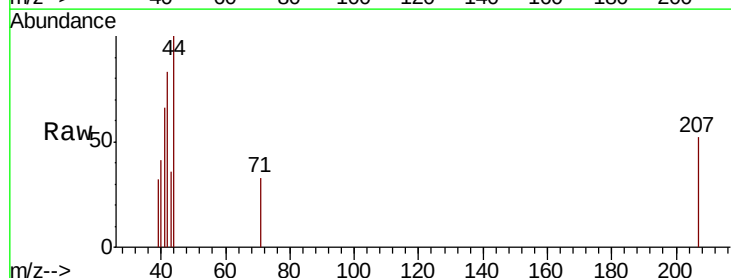
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0518WBL02

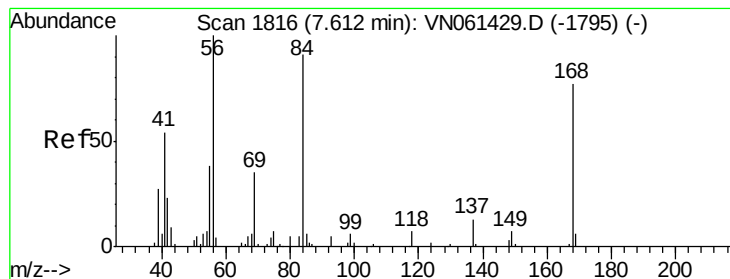
Tot Ion: 43 Resp: 567  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 23.0 34.6#



#29  
 Tetrahydrofuran  
 Concen: 0.556 ug/l  
 RT: 7.17 min Scan# 1677  
 Delta R.T. 0.00 min  
 Lab File: VN061452.D  
 Acq: 19 May 2020 1:05

Tgt Ion: 42 Resp: 598  
 Ion Ratio Lower Upper  
 42 100  
 72 27.6 39.0 58.6#  
 71 38.3 36.9 55.3





#31

Cyclohexane

Concen: Below Cal

RT: 7.61 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampled :

VN0518WBL02

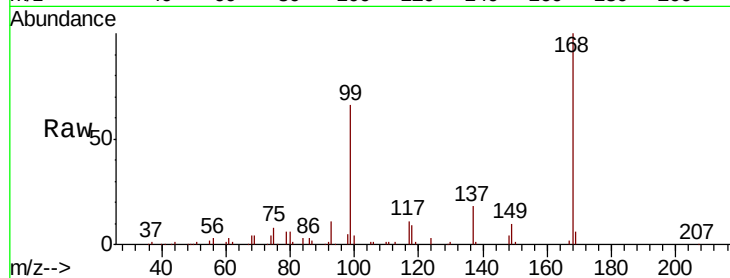
Tot Ion: 56 Resp: 5902

Ion Ratio Lower Upper

56 100

69 162.8 27.8 41.6#

84 118.9 72.7 109.1#

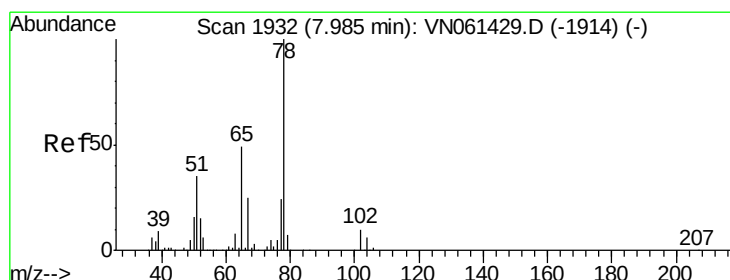
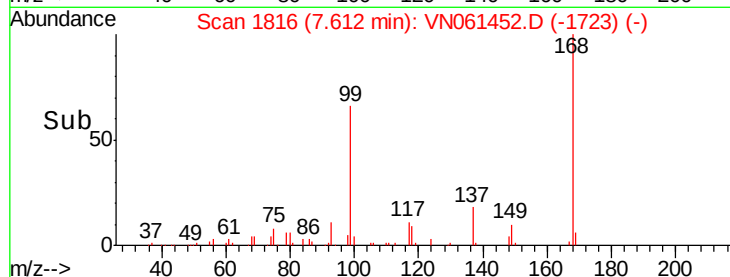
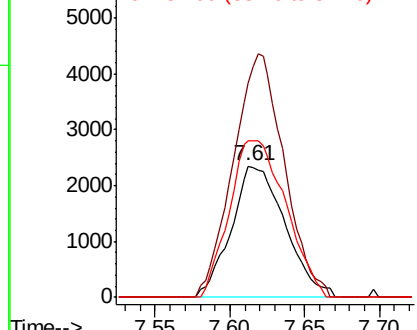


Abundance

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: 47.367 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.00 min

Lab File: VN061452.D

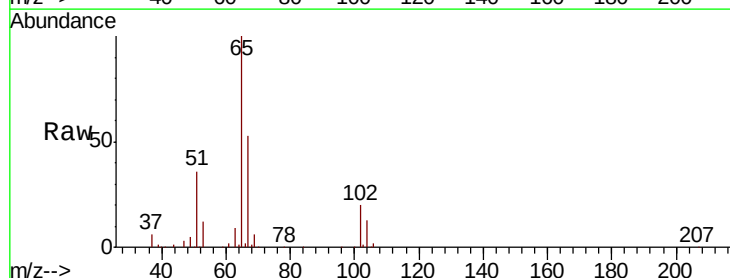
Acq: 19 May 2020 1:05

Tgt Ion: 65 Resp: 168884

Ion Ratio Lower Upper

65 100

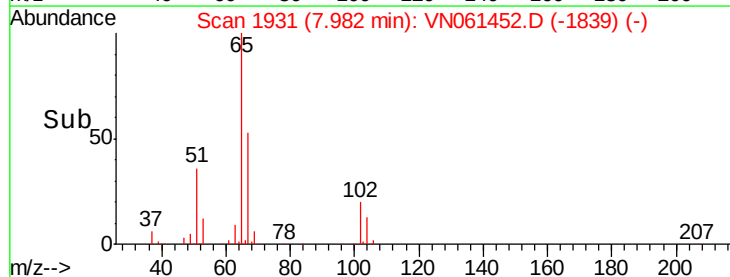
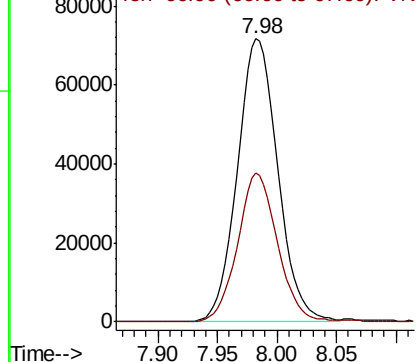
67 52.1 0.0 101.4

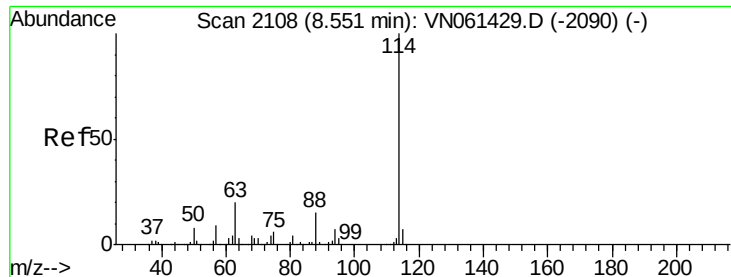


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

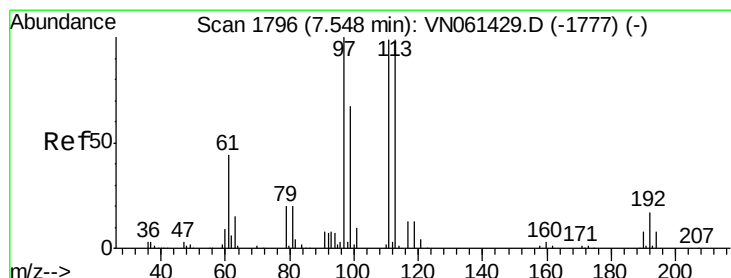
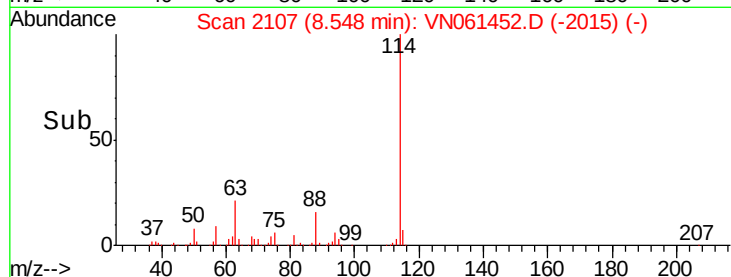
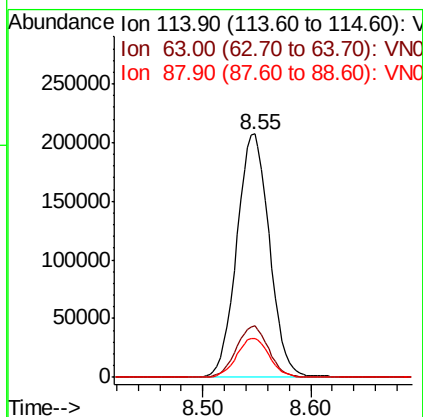
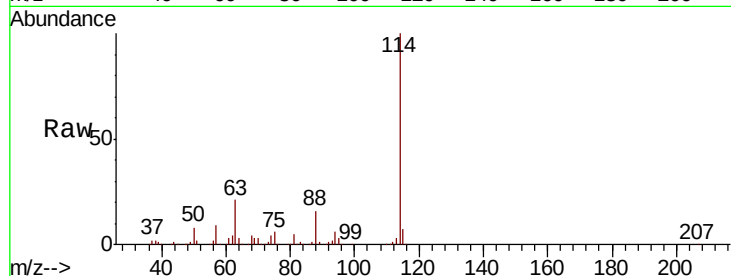




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2107  
 Delta R.T. -0.00 min  
 Lab File: VN061452.D  
 Acq: 19 May 2020 1:05

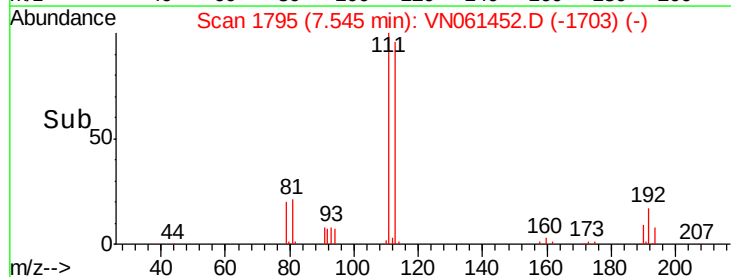
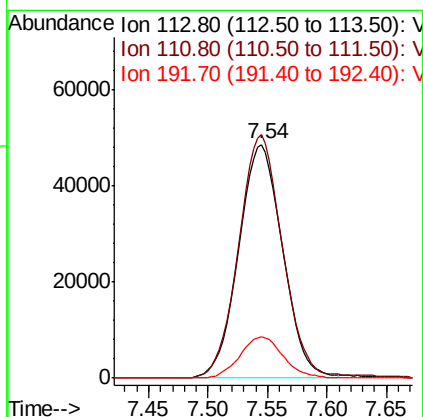
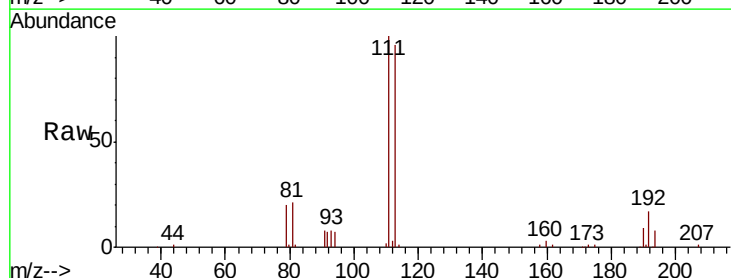
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0518WBL02

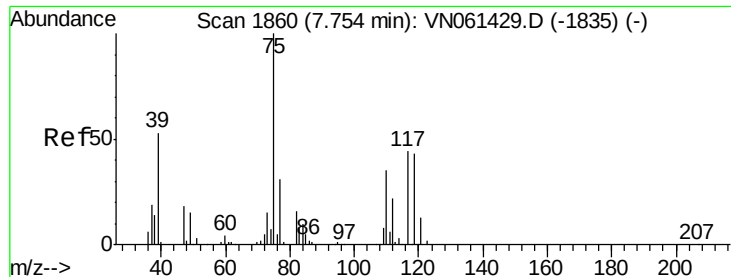
Tot Ion:114 Resp: 437526  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 0.0 40.8  
 88 16.1 0.0 30.8



#35  
 Dibromofluoromethane  
 Concen: 54.287 ug/l  
 RT: 7.54 min Scan# 1795  
 Delta R.T. -0.00 min  
 Lab File: VN061452.D  
 Acq: 19 May 2020 1:05

Tgt Ion:113 Resp: 124429  
 Ion Ratio Lower Upper  
 113 100  
 111 104.7 80.6 121.0  
 192 17.3 13.2 19.8





#36

1,1-Dichloropropene

Concen: 5.018 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

VN0518WBL02

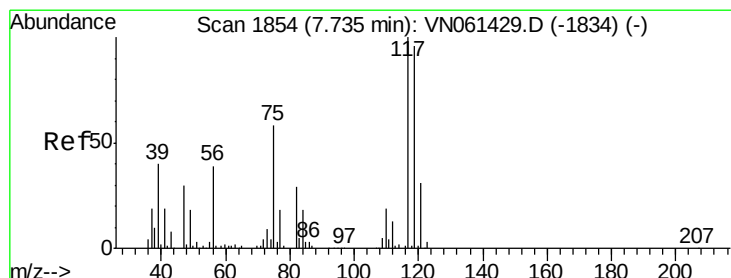
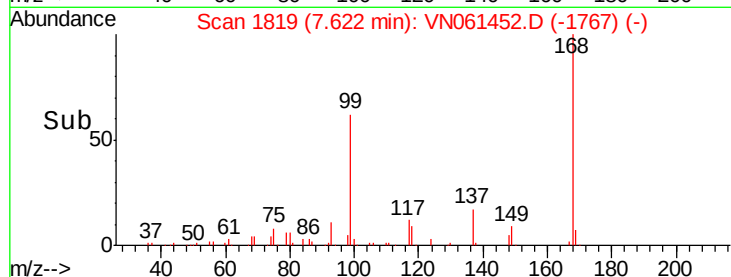
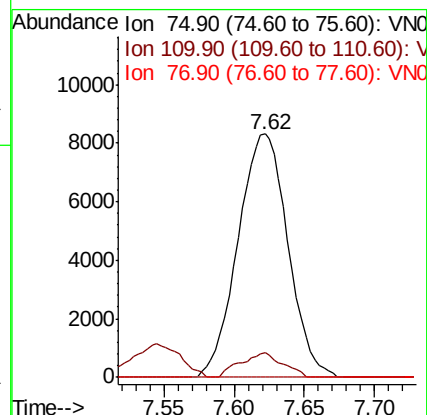
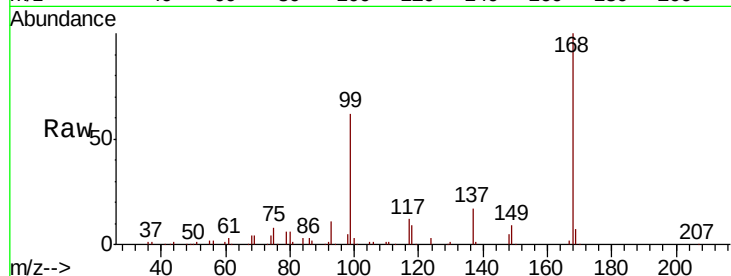
Tot Ion: 75 Resp: 20527

Ion Ratio Lower Upper

75 100

110 8.6 17.3 51.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.983 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.12 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

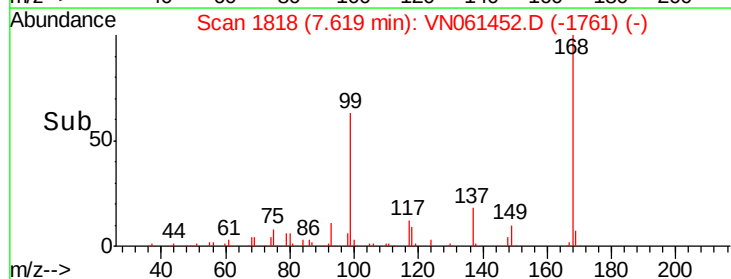
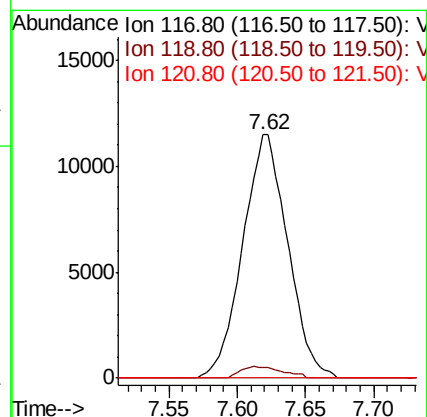
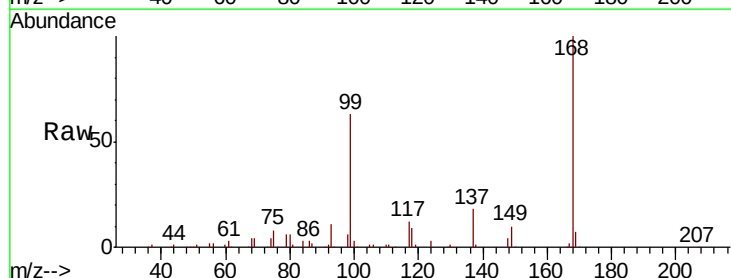
Tgt Ion: 117 Resp: 26307

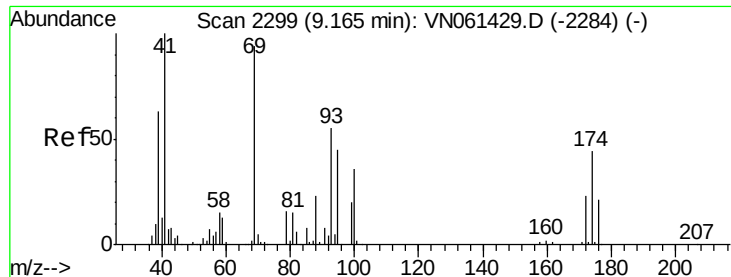
Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.6#

121 0.0 24.7 37.1#

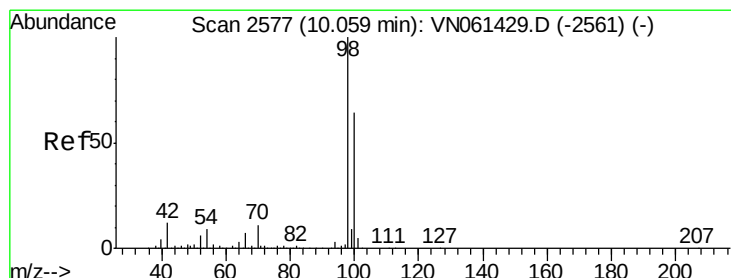
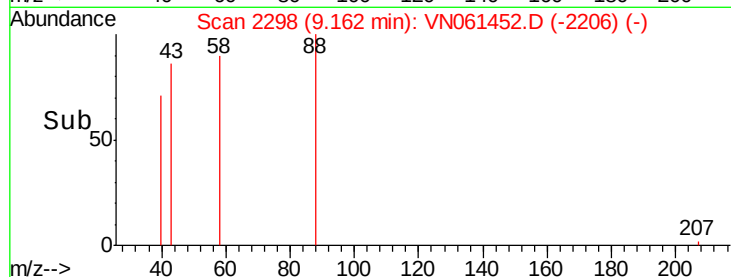
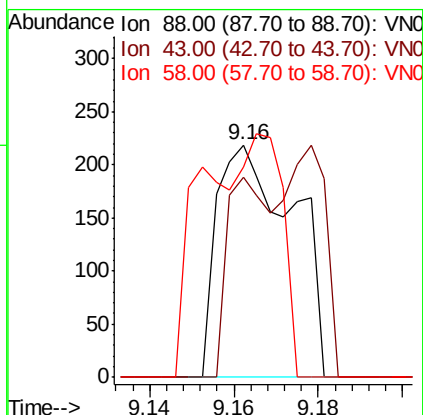
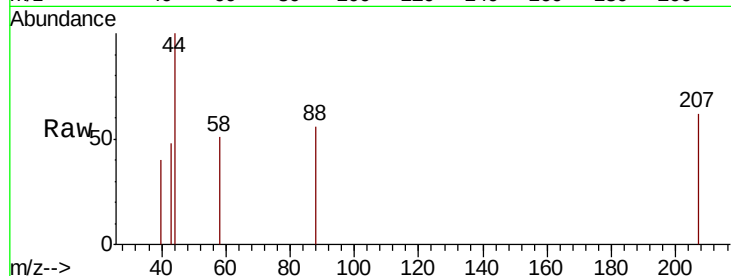




#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 9.16 min Scan# 2298  
Delta R.T. -0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

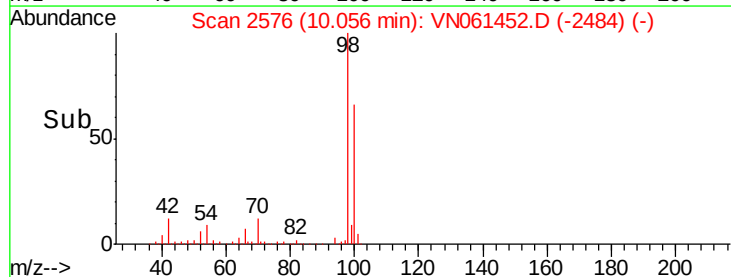
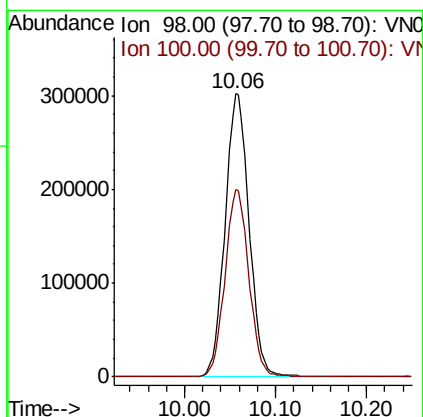
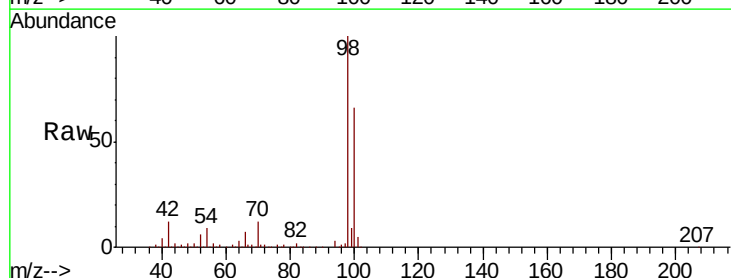
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0518WBL02

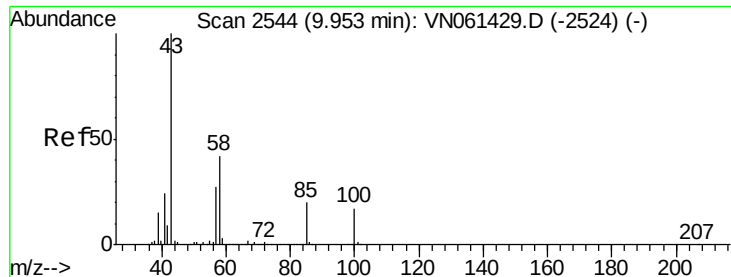
Tot Ion: 88 Resp: 275  
Ion Ratio Lower Upper  
88 100  
43 48.0 26.3 39.5#  
58 58.2 54.1 81.1



#50  
Toluene-d8  
Concen: 52.052 ug/l  
RT: 10.06 min Scan# 2576  
Delta R.T. -0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

Tgt Ion: 98 Resp: 553380  
Ion Ratio Lower Upper  
98 100  
100 65.7 51.8 77.8

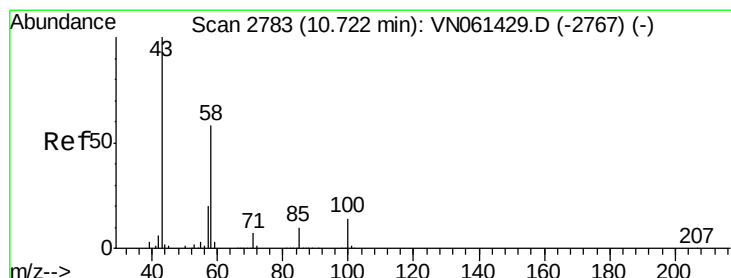
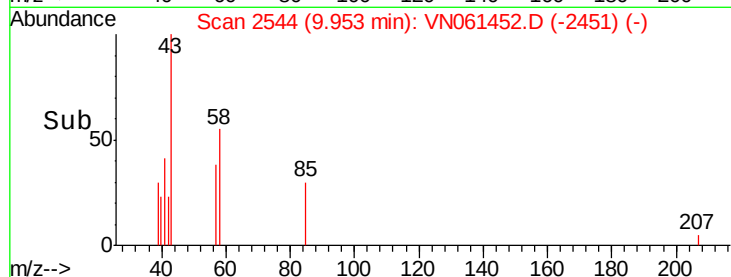
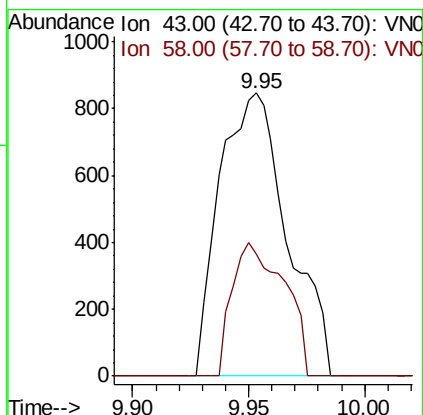
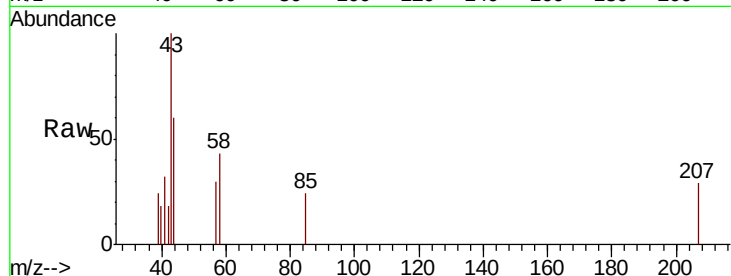




#51  
4-Methyl-2-Pentanone  
Concen: 0.490 ug/l  
RT: 9.95 min Scan# 2544  
Delta R.T. 0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

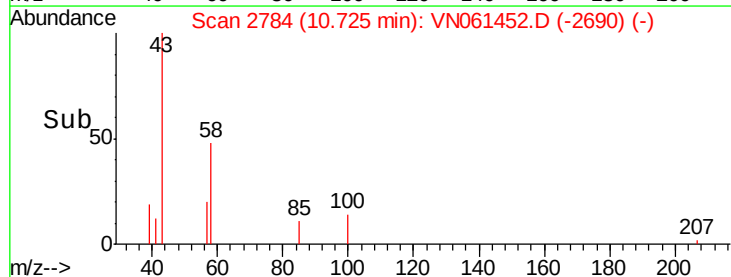
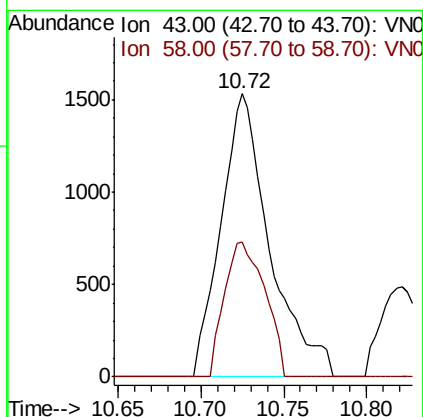
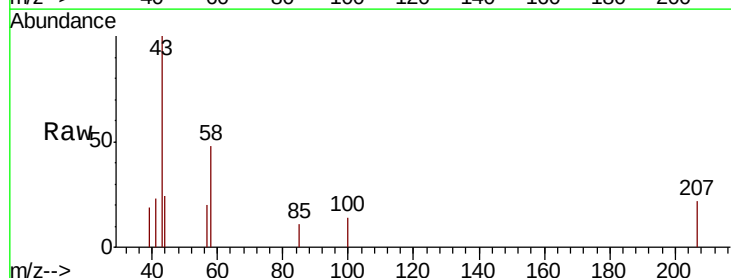
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0518WBL02

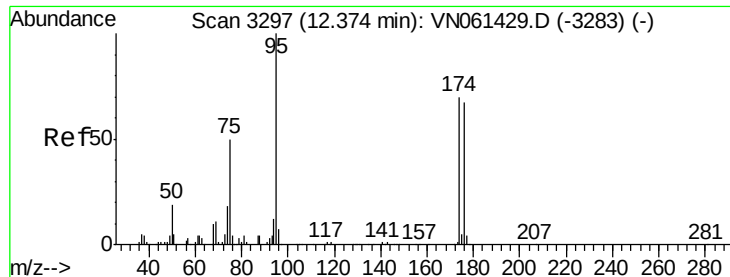
Tot Ion: 43 Resp: 1726  
Ion Ratio Lower Upper  
43 100  
58 36.2 33.4 50.2



#59  
2-Hexanone  
Concen: 1.228 ug/l  
RT: 10.72 min Scan# 2784  
Delta R.T. 0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

Tgt Ion: 43 Resp: 3133  
Ion Ratio Lower Upper  
43 100  
58 39.4 29.2 87.6





#62

4-Bromofluorobenzene

Concen: 52.345 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

VN0518WBL02

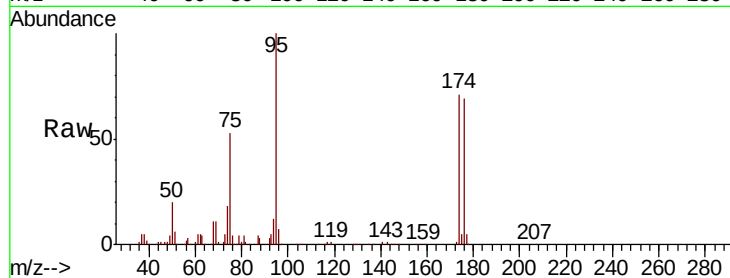
Tot Ion: 95 Resp: 207907

Ion Ratio Lower Upper

95 100

174 71.5 0.0 141.2

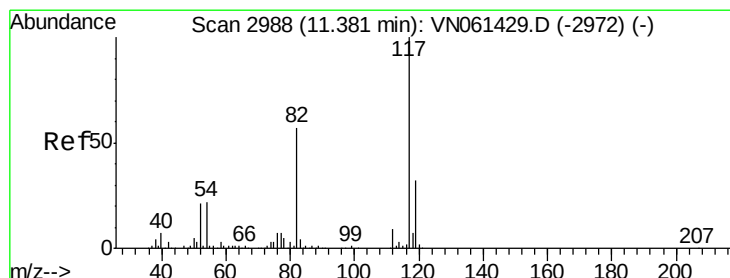
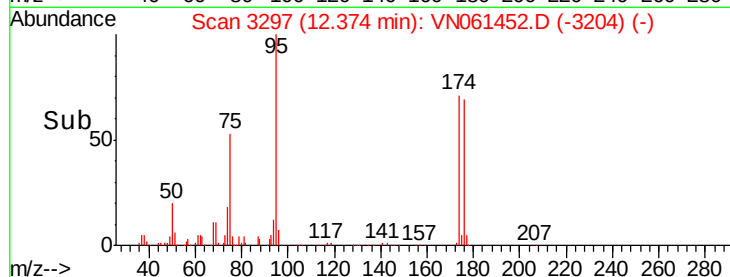
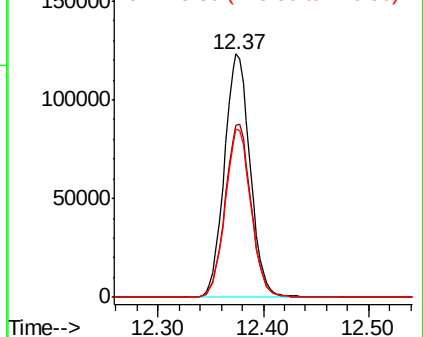
176 69.0 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2987

Delta R.T. -0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

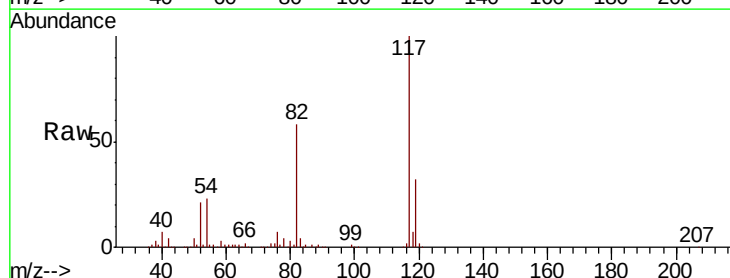
Tgt Ion: 117 Resp: 425487

Ion Ratio Lower Upper

117 100

82 57.5 45.2 67.8

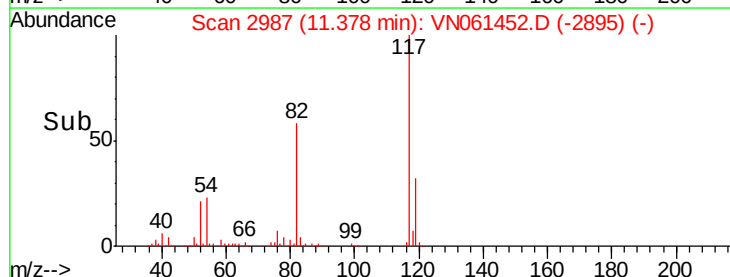
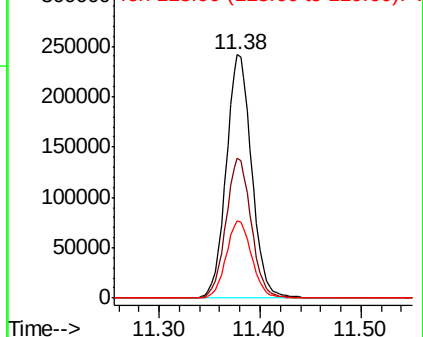
119 31.6 25.3 37.9

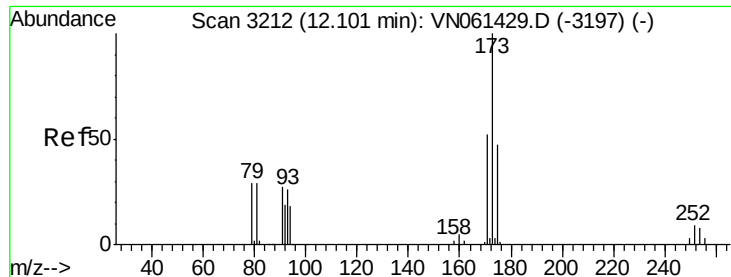


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 2.625 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

VN0518WBL02

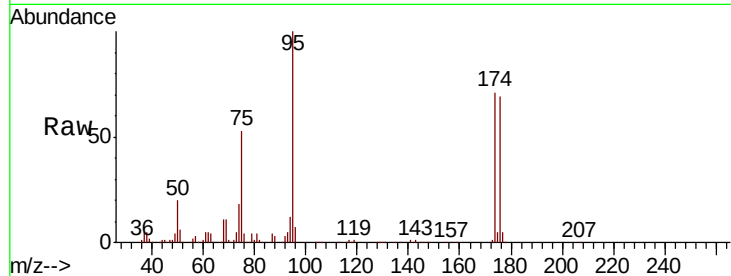
Tot Ion:173 Resp: 1525

Ion Ratio Lower Upper

173 100

175 620.9 23.9 71.8#

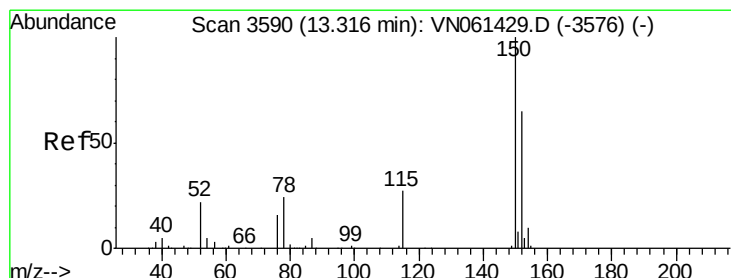
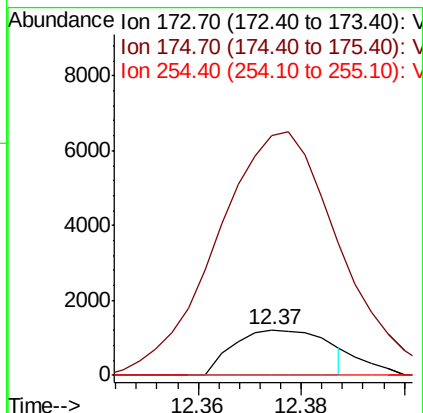
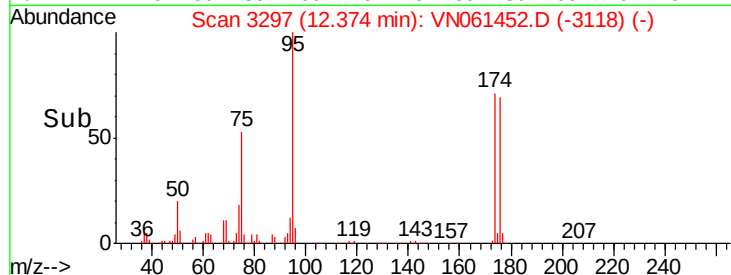
254 0.0 0.0 0.0



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: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

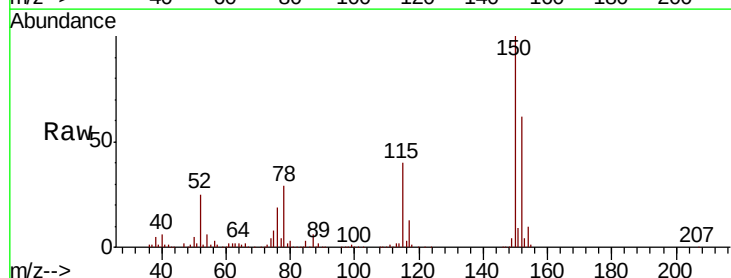
Tgt Ion:152 Resp: 179297

Ion Ratio Lower Upper

152 100

115 61.8 30.9 92.5

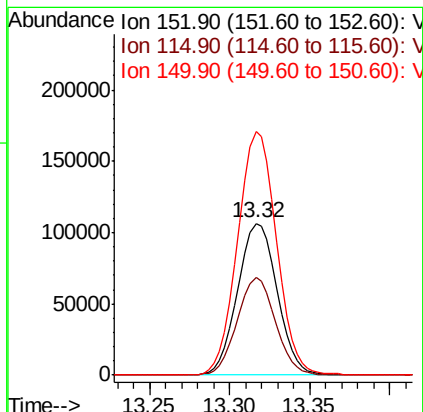
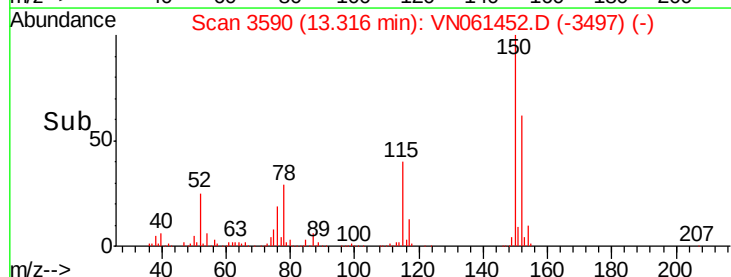
150 158.0 0.0 349.2



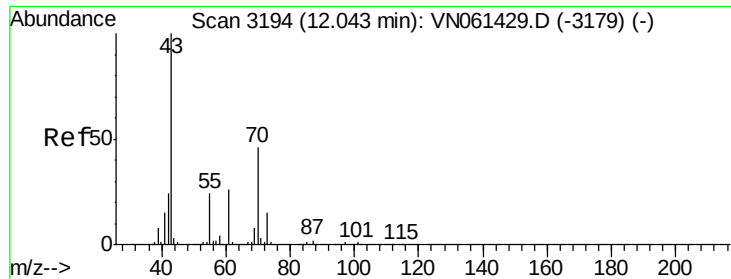
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V







#74

N-amvl acetate

Concen: 0.229 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

VN0518WBL02

Tot Ion: 43 Resp: 1207

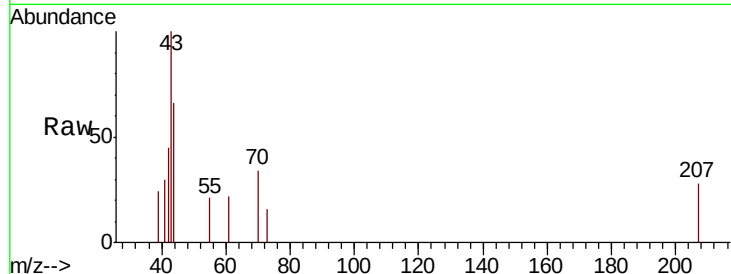
Ion Ratio Lower Upper

43 100

70 46.7 37.0 55.4

55 39.3 19.5 29.3#

61 12.4 20.8 31.2#

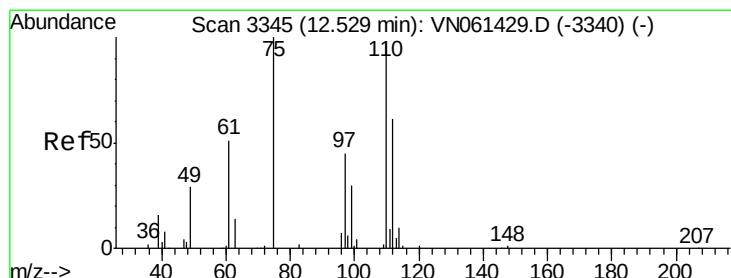
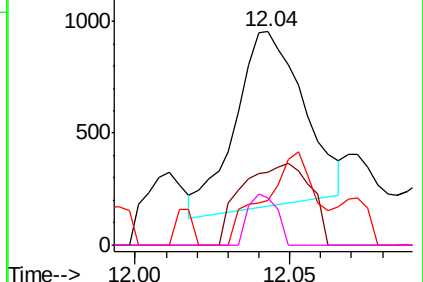
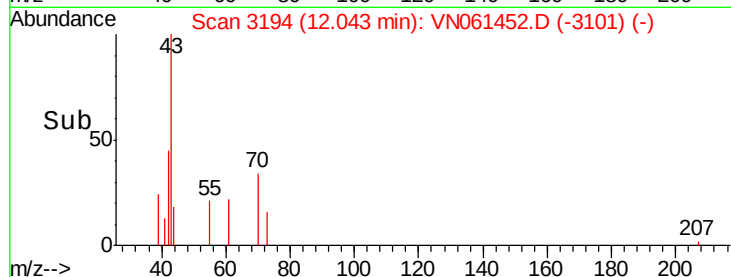


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.682 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061452.D

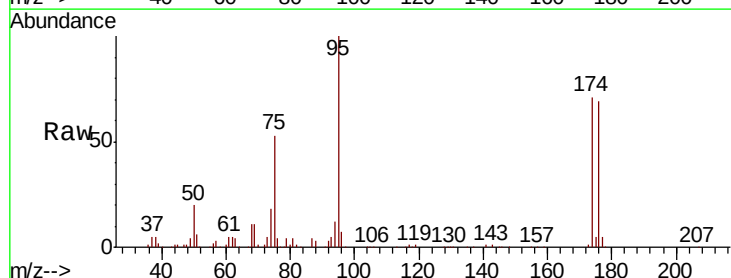
Acq: 19 May 2020 1:05

Tgt Ion: 75 Resp: 110347

Ion Ratio Lower Upper

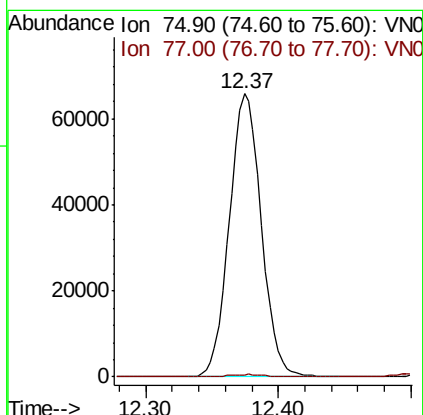
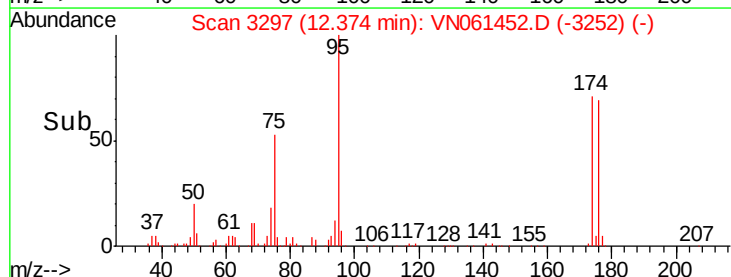
75 100

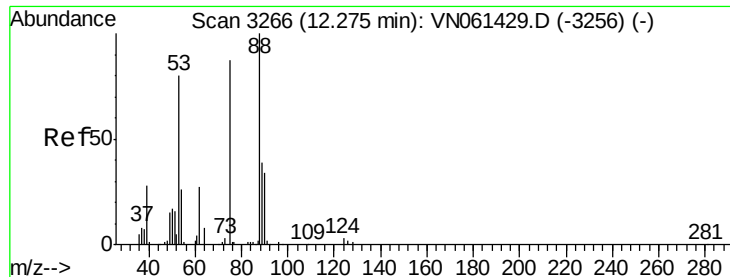
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.087 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

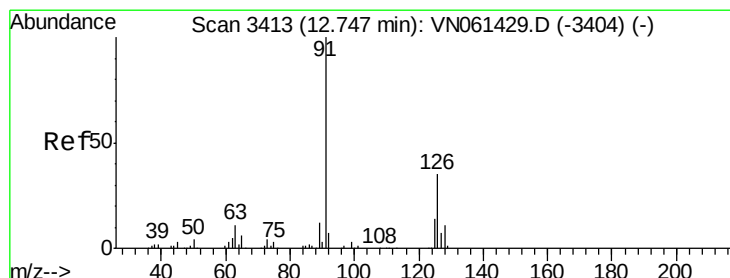
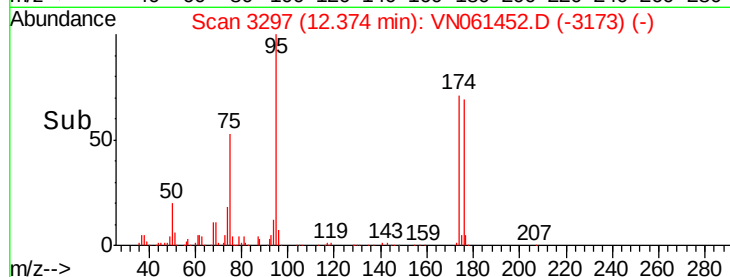
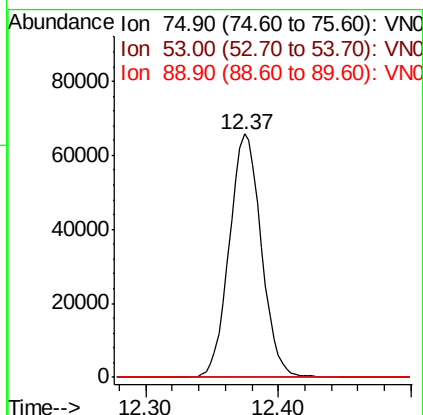
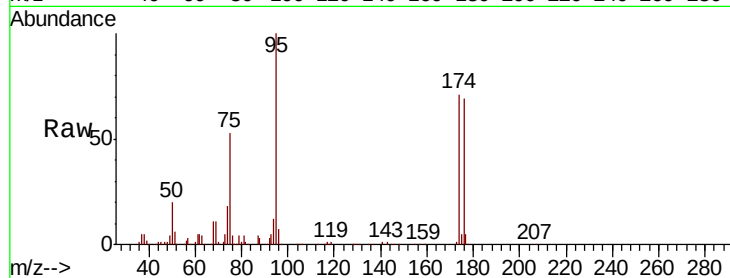
Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0518WBL02

Tot Ion: 75 Resp: 110347

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 53  | 0.0   | 75.2  | 112.8# |
| 89  | 0.0   | 38.2  | 57.4#  |



#82

4-Chlorotoluene

Concen: 0.229 ug/l

RT: 12.75 min Scan# 3413

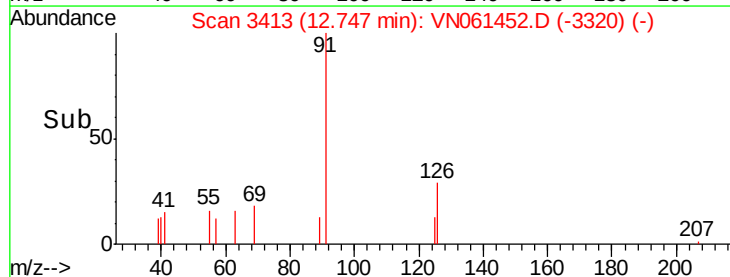
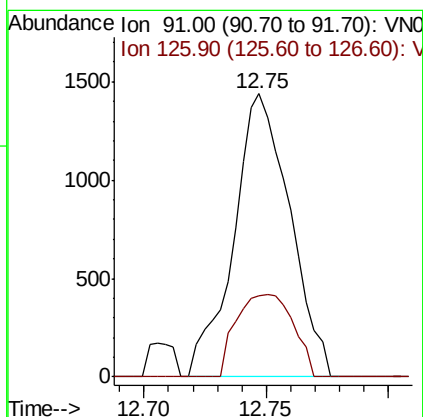
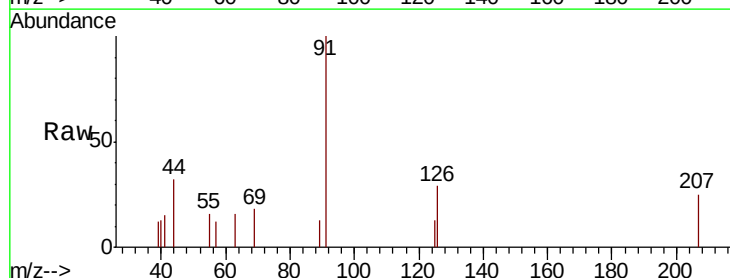
Delta R.T. 0.00 min

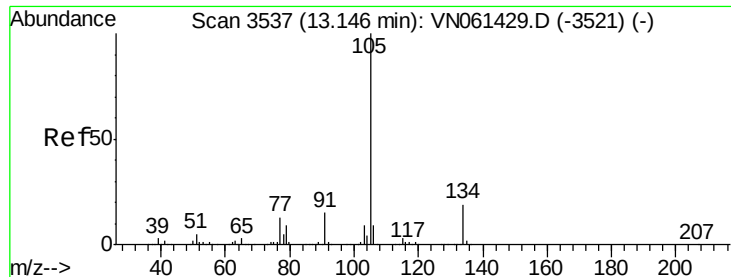
Lab File: VN061452.D

Acq: 19 May 2020 1:05

Tgt Ion: 91 Resp: 2300

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 29.5  | 16.1  | 48.2  |





#85

sec-Butylbenzene

Concen: 0.320 ug/l

RT: 13.15 min Scan# 3537

Delta R.T. 0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

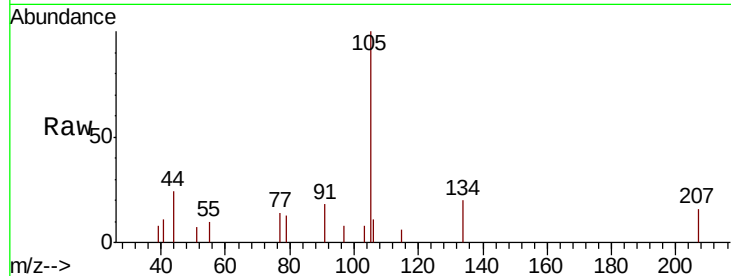
VN0518WBL02

Tot Ion:105 Resp: 4365

Ion Ratio Lower Upper

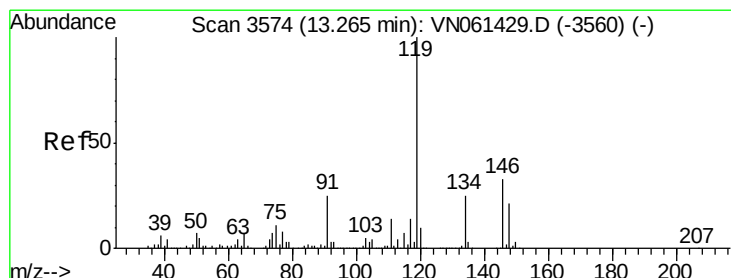
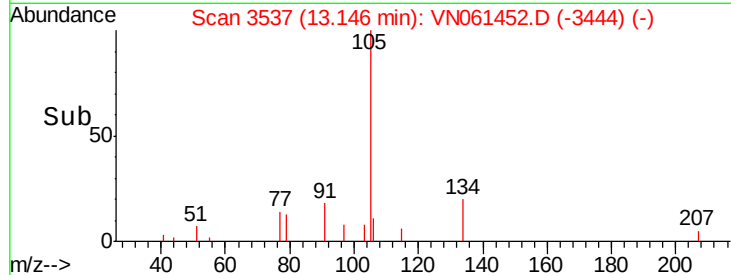
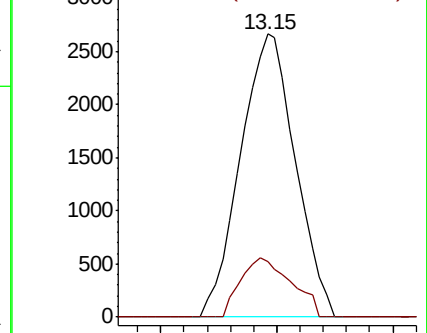
105 100

134 19.3 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.302 ug/l

RT: 13.26 min Scan# 3573

Delta R.T. -0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

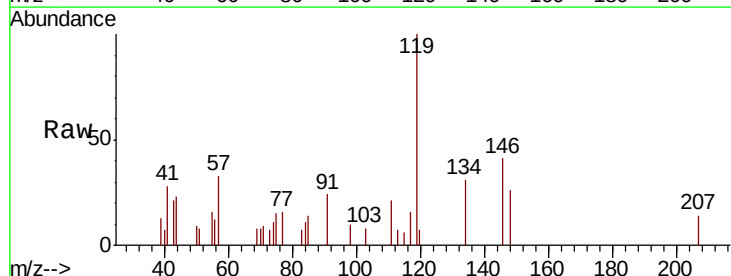
Tgt Ion:119 Resp: 3658

Ion Ratio Lower Upper

119 100

134 27.5 12.7 38.1

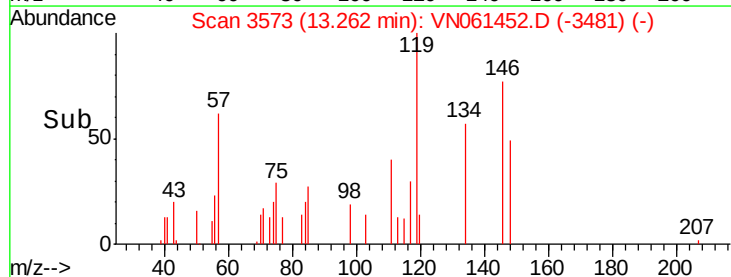
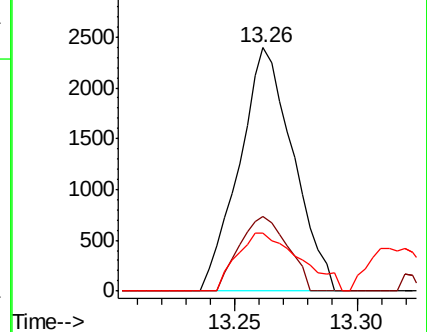
91 28.0 12.6 37.6

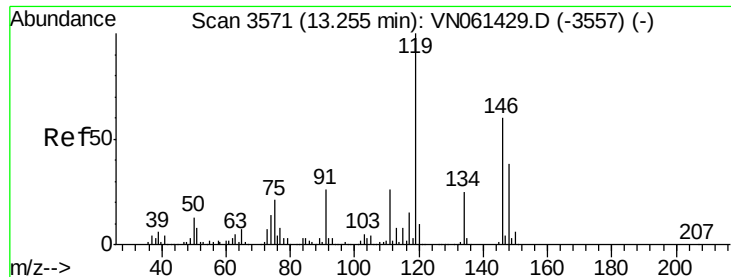


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

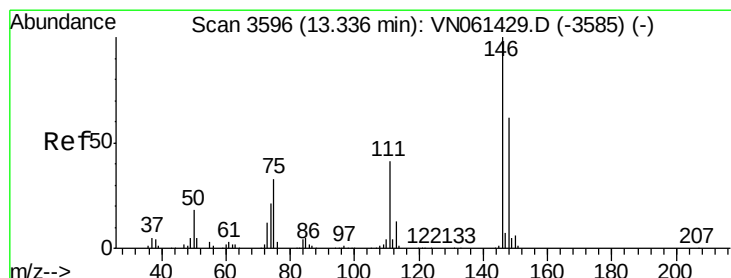
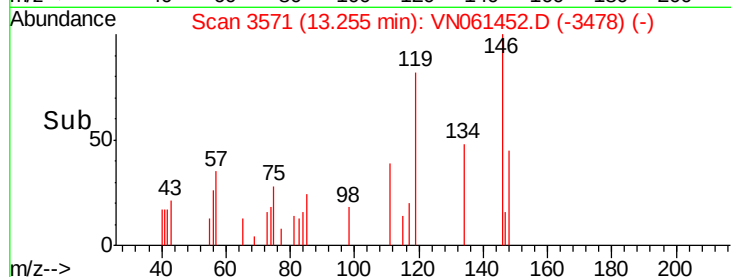
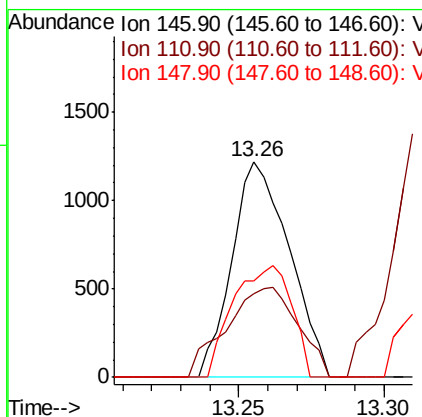
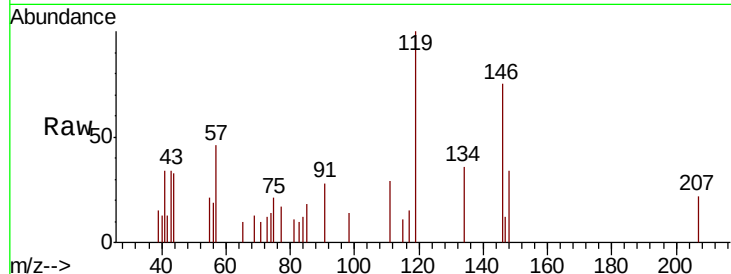




#87  
 1,3-Dichlorobenzene  
 Concen: 0.293 ug/l  
 RT: 13.26 min Scan# 3571  
 Delta R.T. 0.00 min  
 Lab File: VN061452.D  
 Acq: 19 May 2020 1:05

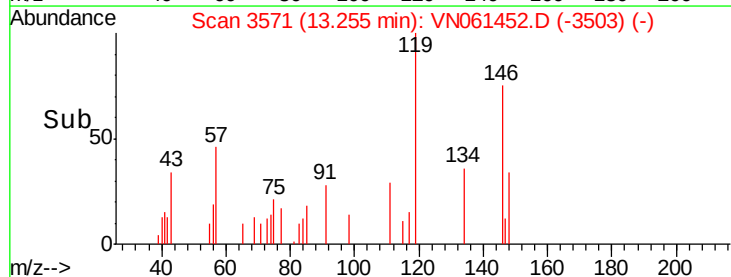
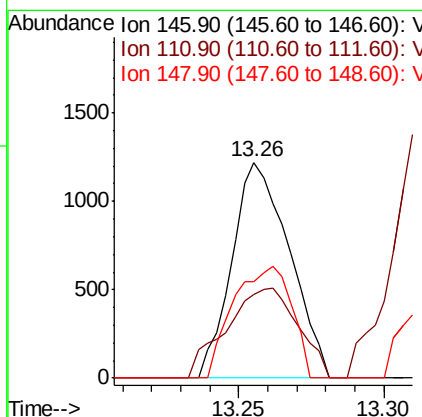
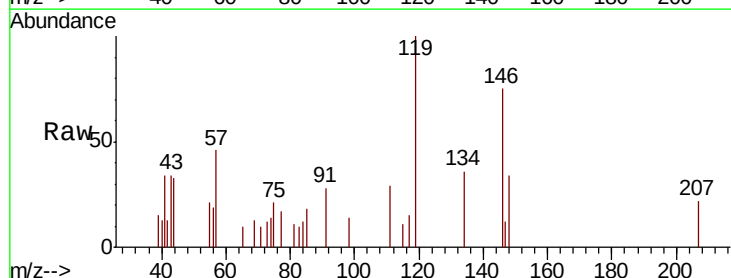
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0518WBL02

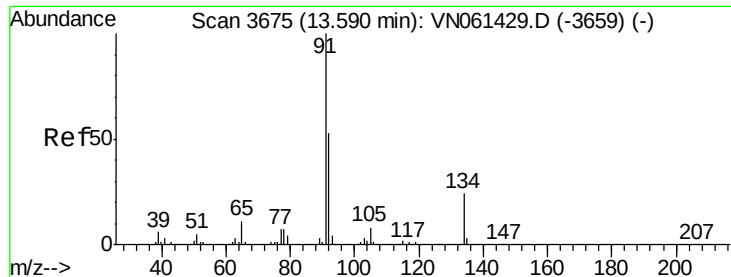
Tot Ion:146 Resp: 1675  
 Ion Ratio Lower Upper  
 146 100  
 111 52.4 21.5 64.5  
 148 52.8 31.8 95.3



#88  
 1,4-Dichlorobenzene  
 Concen: 0.293 ug/l  
 RT: 13.26 min Scan# 3571  
 Delta R.T. -0.08 min  
 Lab File: VN061452.D  
 Acq: 19 May 2020 1:05

Tgt Ion:146 Resp: 1675  
 Ion Ratio Lower Upper  
 146 100  
 111 52.4 20.8 62.5  
 148 52.8 31.6 94.8

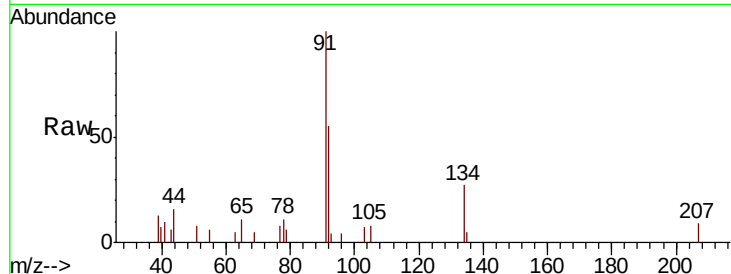




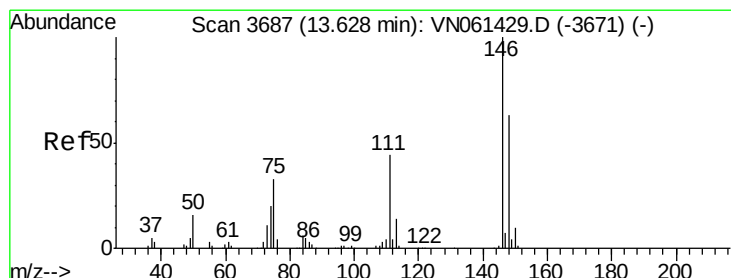
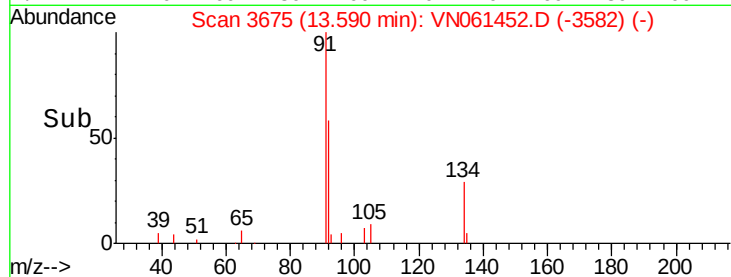
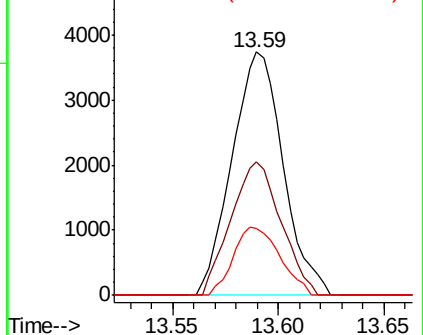
#89  
n-Butylbenzene  
Concen: 0.572 ug/l  
RT: 13.59 min Scan# 3675  
Delta R.T. 0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0518WBL02

Tot Ion: 91 Resp: 6302  
Ion Ratio Lower Upper  
91 100  
92 53.6 26.8 80.3  
134 25.5 12.4 37.4

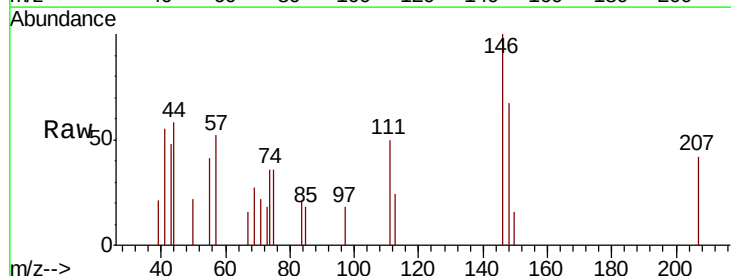


Abundance Ion 91.00 (90.70 to 91.70): VN0  
Ion 92.00 (91.70 to 92.70): VN0  
Ion 134.00 (133.70 to 134.70): V

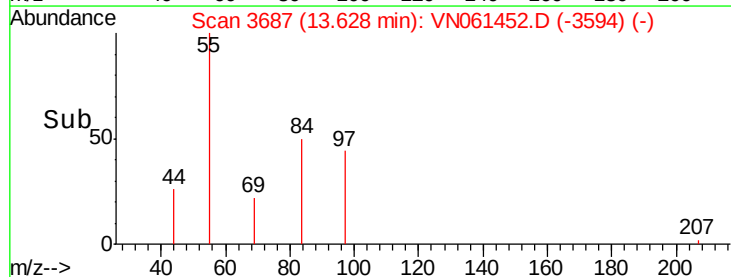
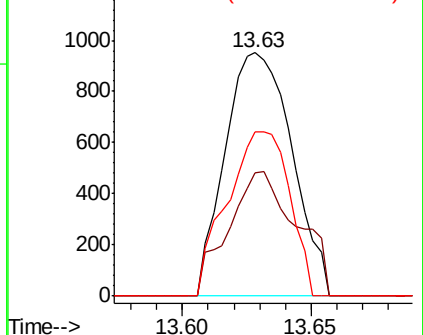


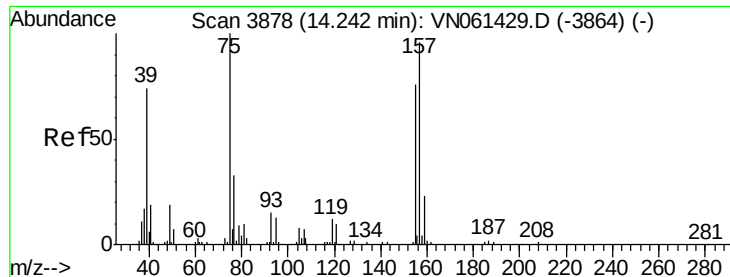
#91  
1,2-Dichlorobenzene  
Concen: 0.313 ug/l  
RT: 13.63 min Scan# 3687  
Delta R.T. 0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

Tgt Ion: 146 Resp: 1719  
Ion Ratio Lower Upper  
146 100  
111 52.1 21.9 65.7  
148 63.0 31.6 94.7



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.365 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. 0.01 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

Instrument :

MSVOA\_N

ClientSampleId :

VN0518WBL02

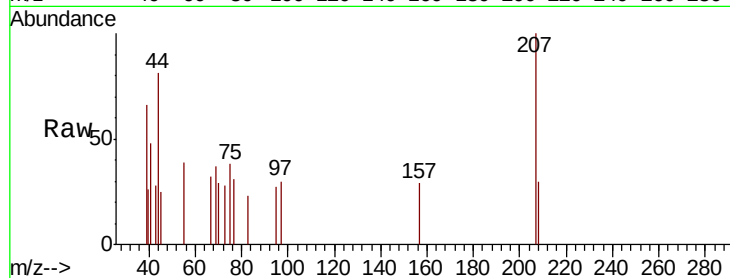
Tot Ion: 75 Resp: 292

Ion Ratio Lower Upper

75 100

155 48.6 38.9 116.7

157 34.9 48.6 145.8#

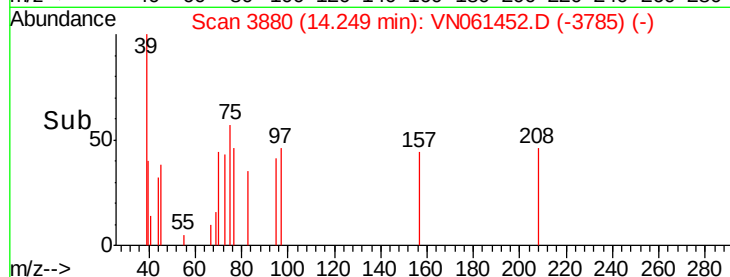


Abundance Ion 74.90 (74.60 to 75.60): VN061429.D (-3864) (-)

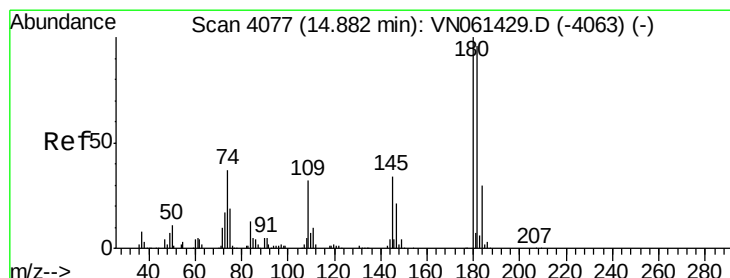
Ion 154.80 (154.50 to 155.50): VN061429.D (-3864) (-)

Ion 156.80 (156.50 to 157.50): VN061429.D (-3864) (-)

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 1.108 ug/l

RT: 14.89 min Scan# 4078

Delta R.T. 0.00 min

Lab File: VN061452.D

Acq: 19 May 2020 1:05

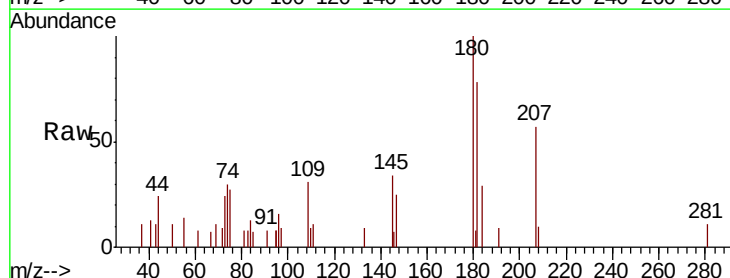
Tgt Ion: 180 Resp: 3295

Ion Ratio Lower Upper

180 100

182 87.8 47.0 141.0

145 38.4 16.7 50.0

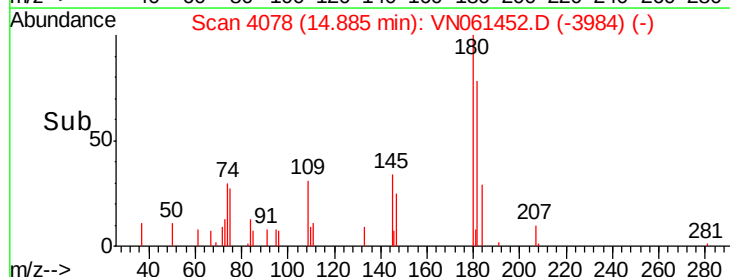


Abundance Ion 179.80 (179.50 to 180.50): VN061429.D (-4063) (-)

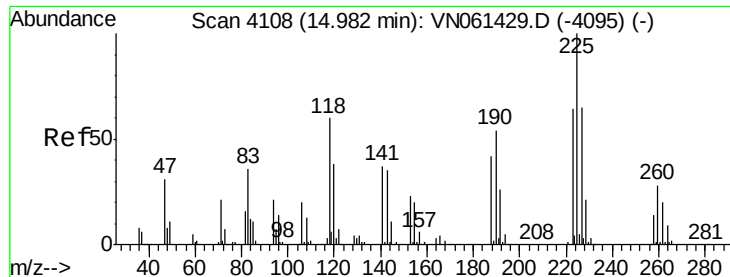
Ion 181.80 (181.50 to 182.50): VN061429.D (-4063) (-)

Ion 144.80 (144.50 to 145.50): VN061429.D (-4063) (-)

Time-->



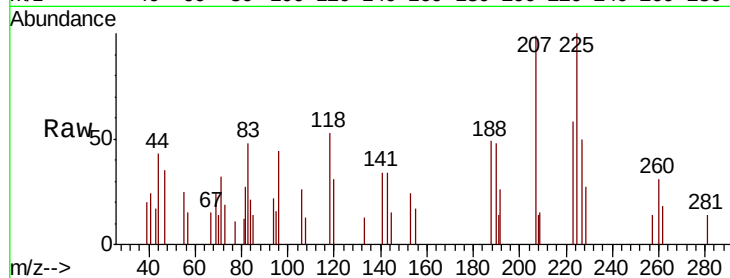
Time-->



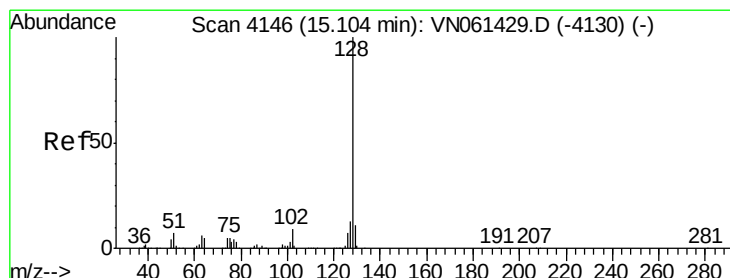
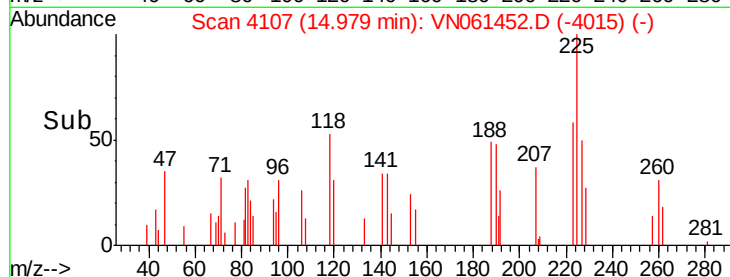
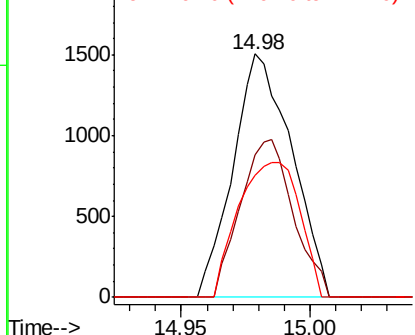
#94  
Hexachlorobutadiene  
Concen: 1.808 ug/l  
RT: 14.98 min Scan# 4107  
Delta R.T. -0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0518WBL02

Tot Ion:225 Resp: 2389  
Ion Ratio Lower Upper  
225 100  
223 58.4 31.9 95.7  
227 58.1 31.5 94.5

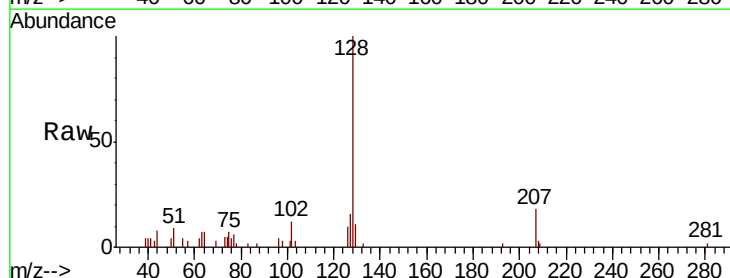


Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V

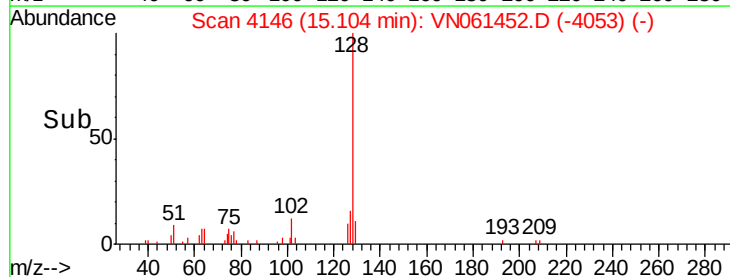
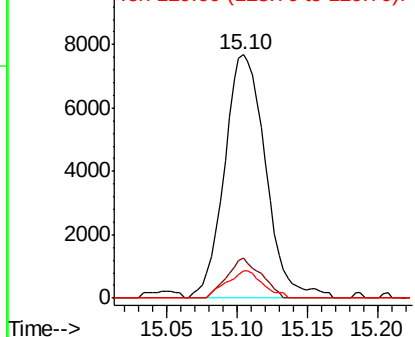


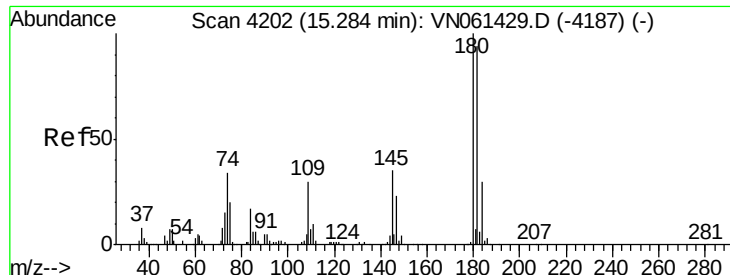
#95  
Naphthalene  
Concen: 1.660 ug/l  
RT: 15.10 min Scan# 4146  
Delta R.T. 0.00 min  
Lab File: VN061452.D  
Acq: 19 May 2020 1:05

Tgt Ion:128 Resp: 15692  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.1 15.1  
129 10.0 8.6 13.0



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: 1.205 ug/l  
 RT: 15.29 min Scan# 4203  
 Delta R.T. 0.00 min  
 Lab File: VN061452.D  
 Acq: 19 May 2020 1:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0518WBL02

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 180   | Resp: | 3566  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 91.9  | 47.8  | 143.3 |
| 145      | 37.7  | 17.3  | 51.9  |

