

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062320\  
 Data File : VN062051.D  
 Acq On : 23 Jun 2020 19:01  
 Operator : JC/MD  
 Sample : L3033-04DL2 1000X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LF001MW001-200615DL2

Quant Time: Jun 24 02:13:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

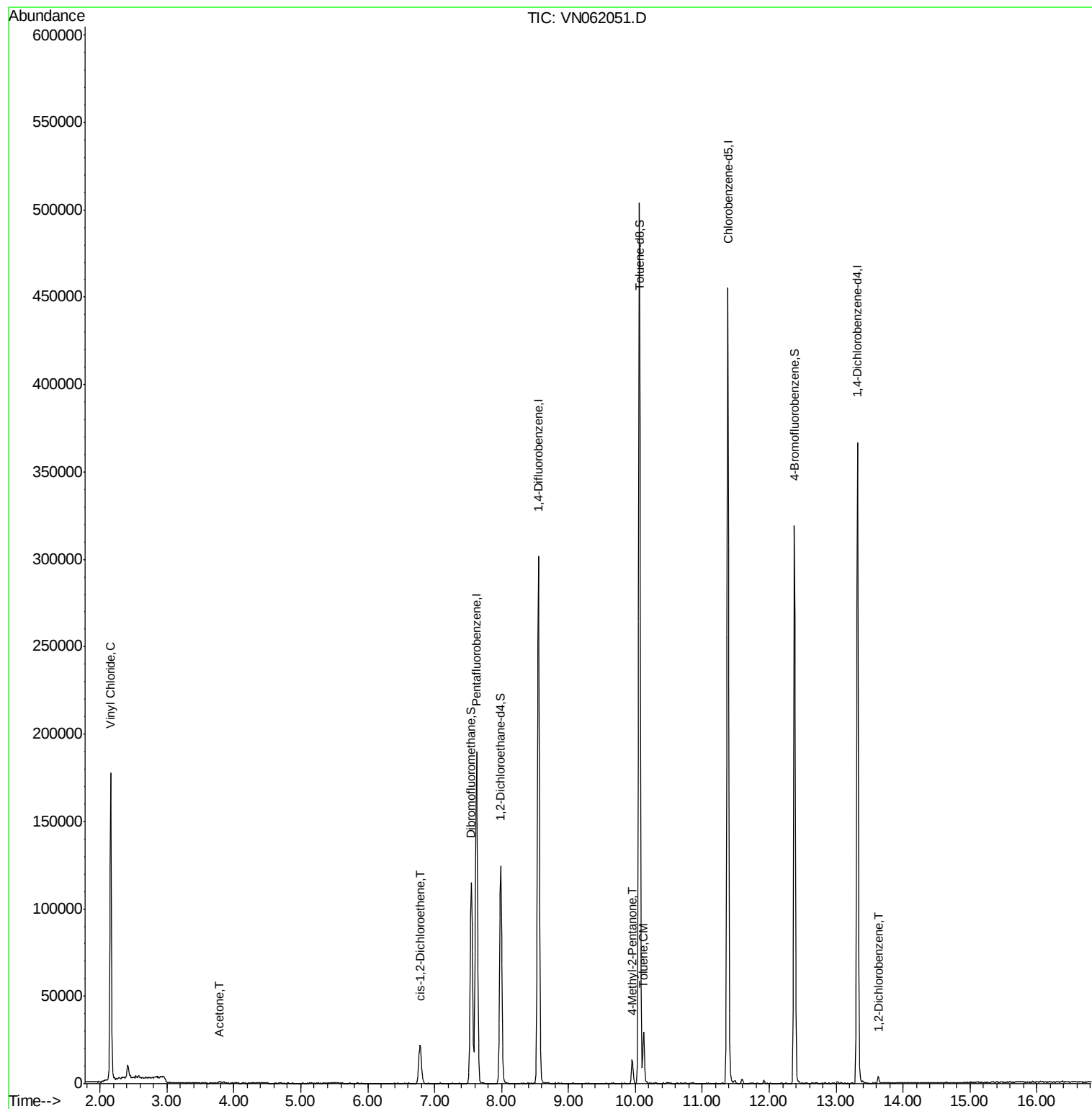
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.63  | 168  | 149779   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.55  | 114  | 277141   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.38 | 117  | 266184   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.32 | 152  | 101920   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 105879   | 52.71  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 105.42% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 89931    | 50.72  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.44% |          |
| 50) Toluene-d8              | 10.06 | 98   | 352524   | 50.57  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.14% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 113993   | 47.68  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 95.36%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 4) Vinyl Chloride           | 2.16  | 62   | 158195   | 63.828 | ug/l    | 98       |
| 16) Acetone                 | 3.78  | 43   | 1855     | 3.126  | ug/l #  | 86       |
| 27) cis-1,2-Dichloroethene  | 6.78  | 96   | 13575    | 6.731  | ug/l    | 91       |
| 51) 4-Methyl-2-Pentanone    | 9.95  | 43   | 9295     | 4.728  | ug/l    | 93       |
| 52) Toluene                 | 10.12 | 92   | 12235    | 2.544  | ug/l    | 97       |
| 91) 1,2-Dichlorobenzene     | 13.63 | 146  | 2269     | 0.707  | ug/l    | 89       |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 17 01:19:44 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA\_N

ClientSampleId :

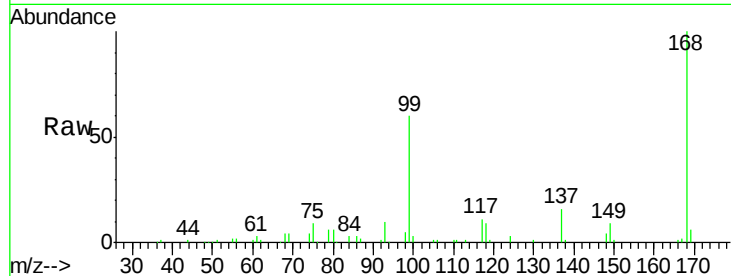
LF001MW001-200615DL2

Tot Ion:168 Resp: 149779

Ion Ratio Lower Upper

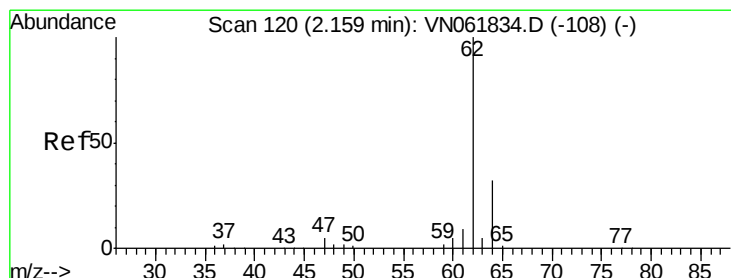
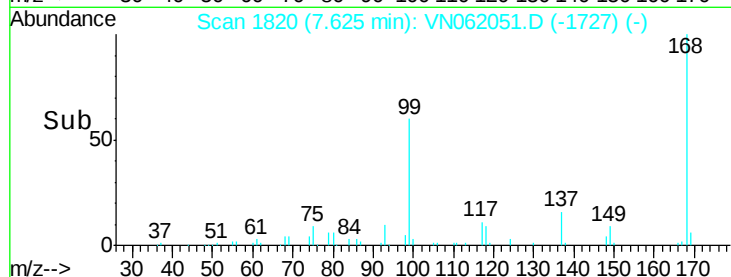
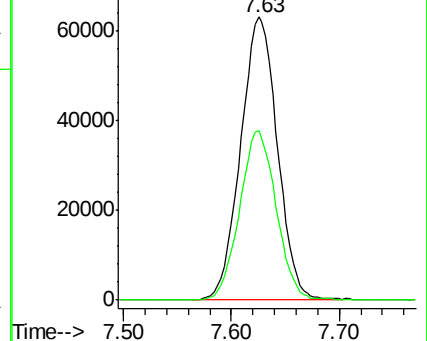
168 100

99 59.8 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Vinyl Chloride

Concen: 63.828 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN062051.D

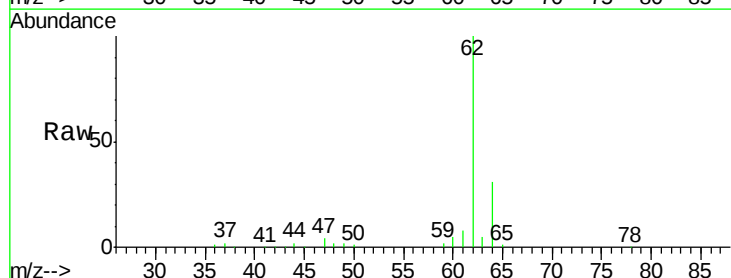
Acq: 23 Jun 2020 19:01

Tgt Ion: 62 Resp: 158195

Ion Ratio Lower Upper

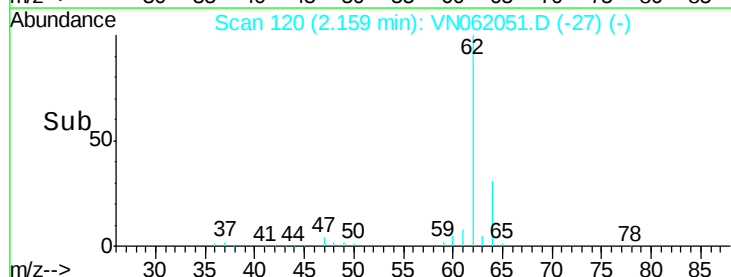
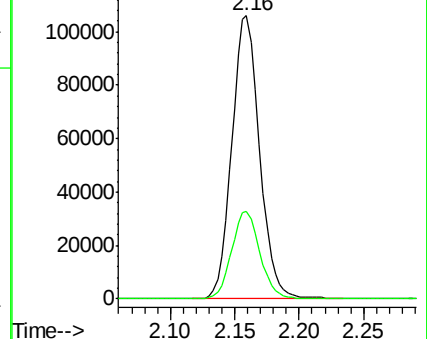
62 100

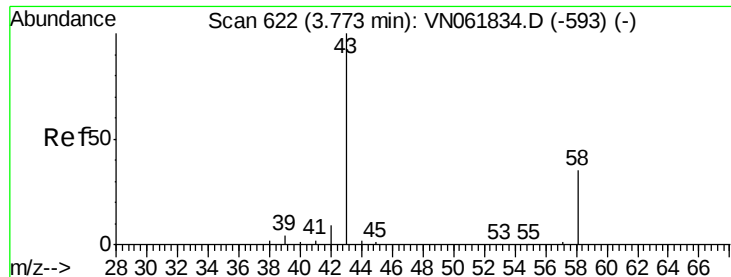
64 31.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#16

Acetone

Concen: 3.126 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA\_N

ClientSampleId :

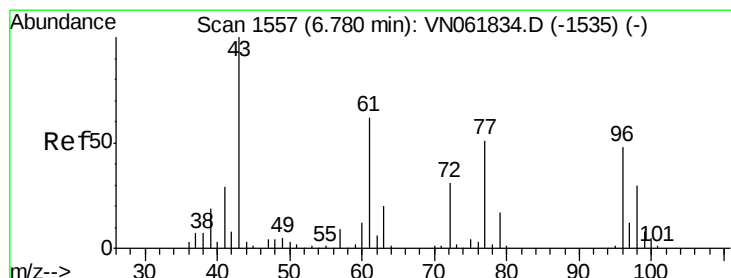
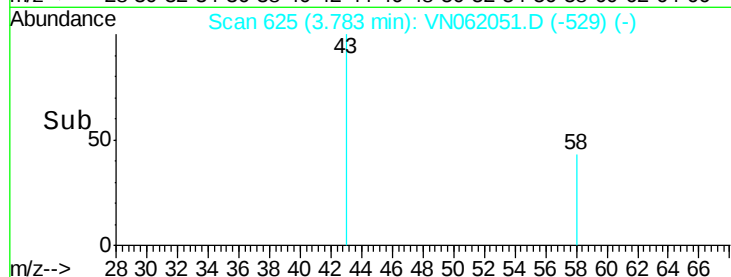
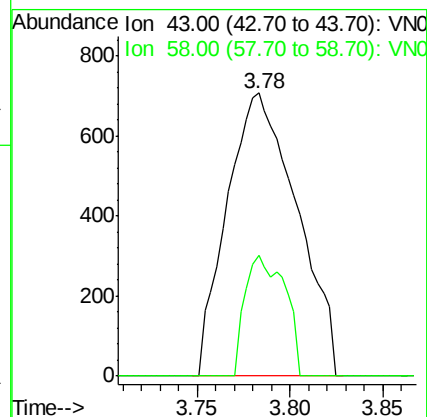
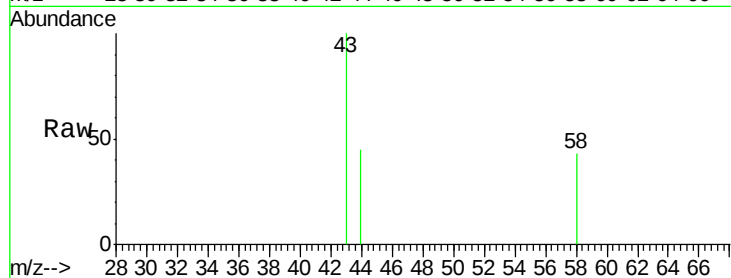
LF001MW001-200615DL2

Tot Ion: 43 Resp: 1855

Ion Ratio Lower Upper

43 100

58 42.9 27.8 41.8#



#27

cis-1,2-Dichloroethene

Concen: 6.731 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

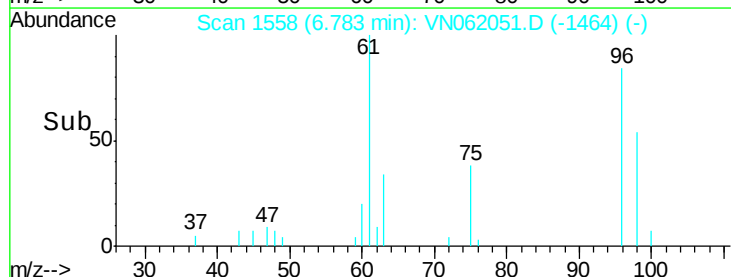
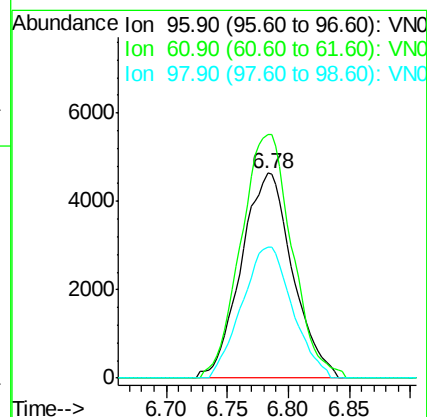
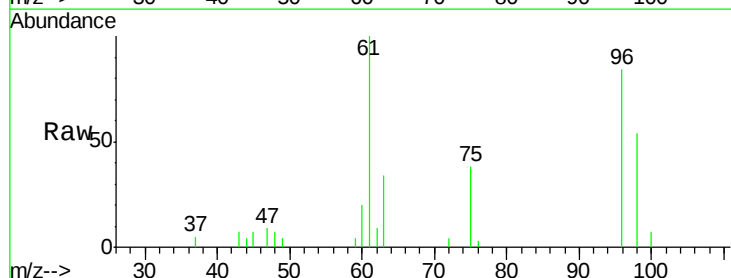
Tgt Ion: 96 Resp: 13575

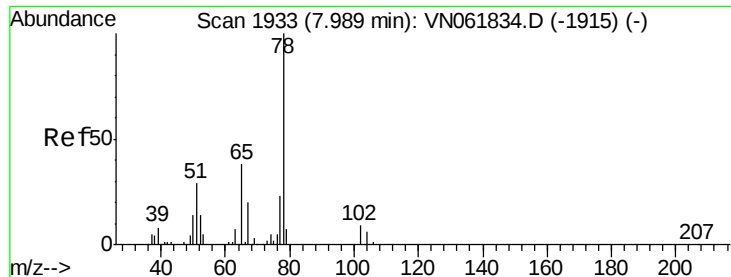
Ion Ratio Lower Upper

96 100

61 117.9 0.0 265.6

98 62.7 0.0 128.2

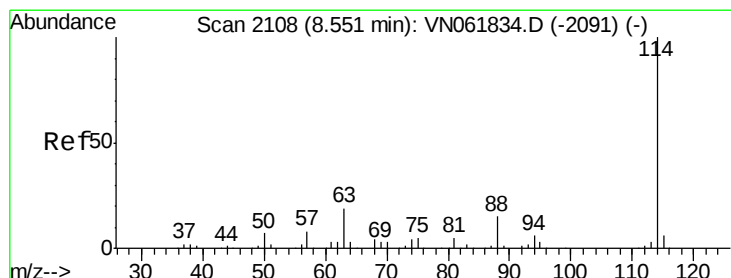
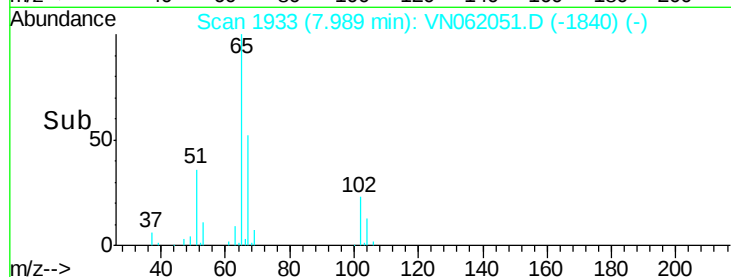
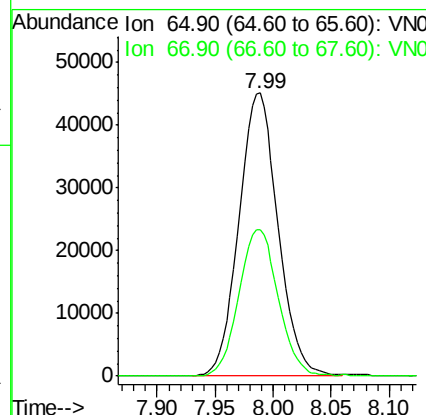
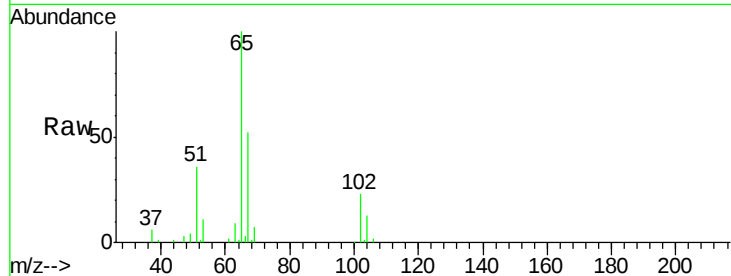




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.709 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. -0.00 min  
 Lab File: VN062051.D  
 Acq: 23 Jun 2020 19:01

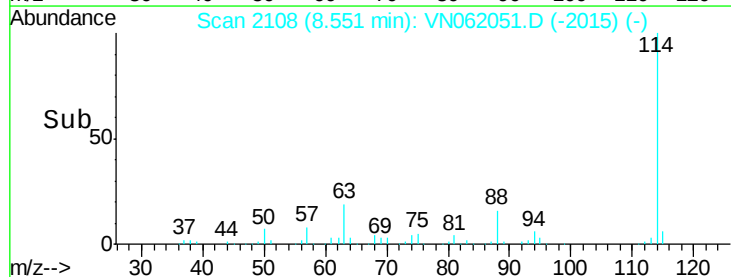
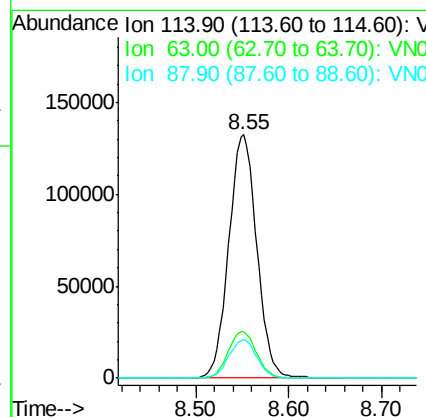
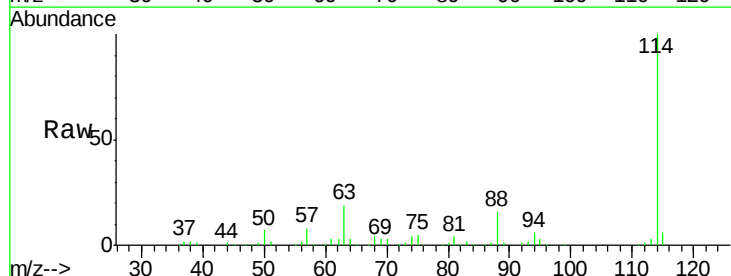
Instrument :  
 MSVOA\_N  
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 LF001MW001-200615DL2

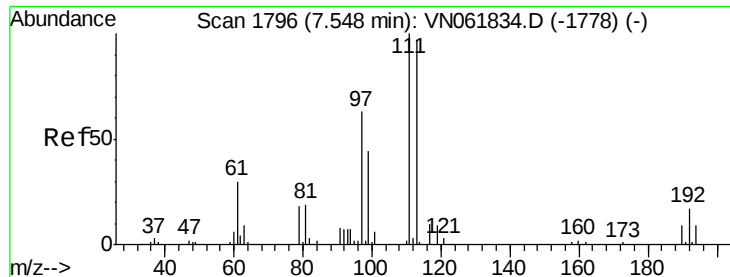
Tot Ion: 65 Resp: 105879  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN062051.D  
 Acq: 23 Jun 2020 19:01

Tgt Ion: 114 Resp: 277141  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 37.6  
 88 15.7 0.0 31.0

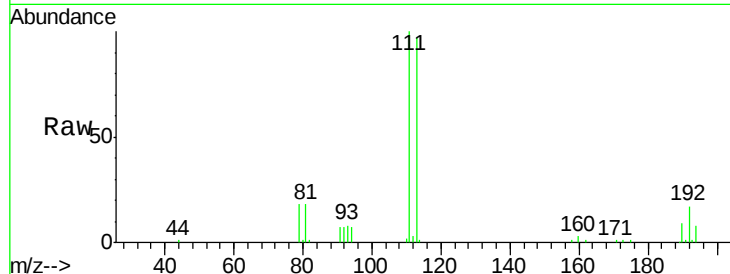




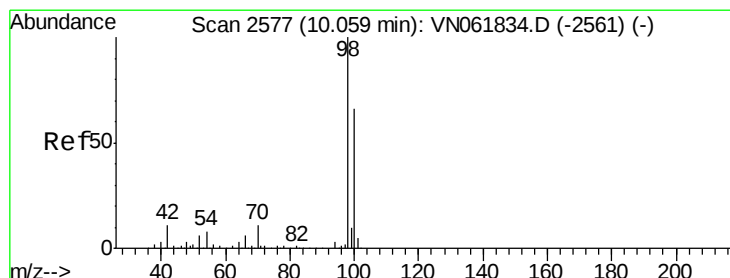
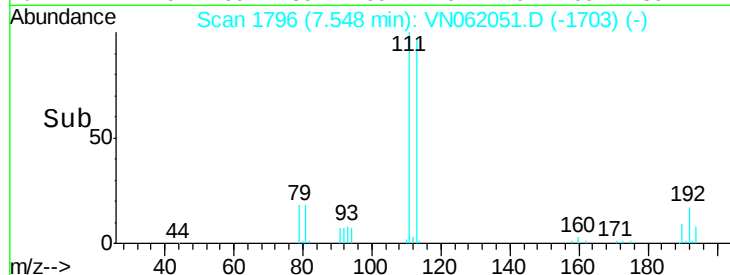
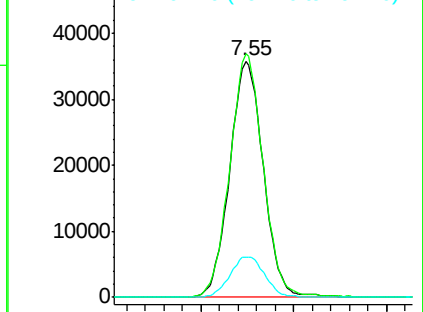
#35  
 Dibromofluoromethane  
 Concen: 50.722 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN062051.D  
 Acq: 23 Jun 2020 19:01

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 83.7  | 125.5 |
| 192     | 17.6  | 13.9  | 20.9  |

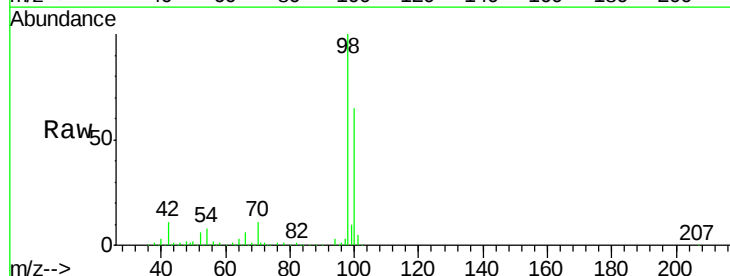


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

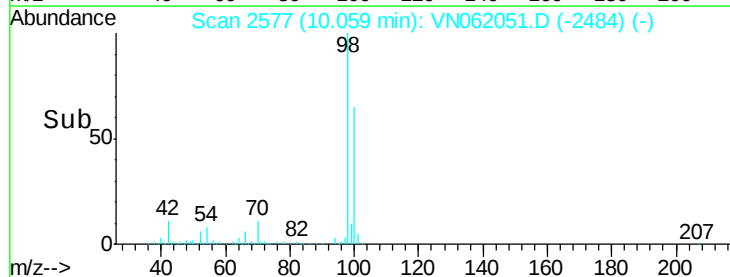
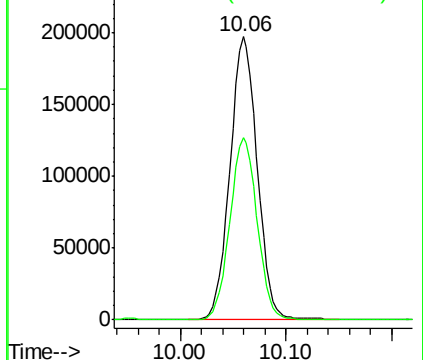


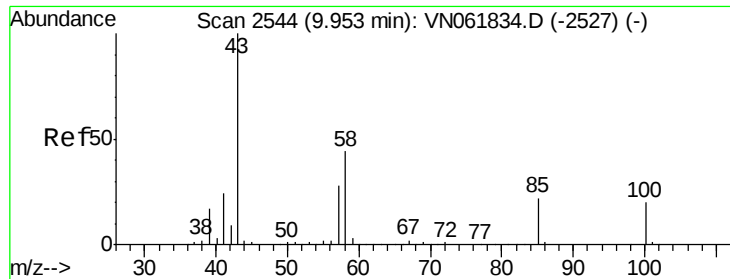
#50  
 Toluene-d8  
 Concen: 50.574 ug/l  
 RT: 10.06 min Scan# 2577  
 Delta R.T. -0.00 min  
 Lab File: VN062051.D  
 Acq: 23 Jun 2020 19:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.7  | 52.7  | 79.1  |



Abundance Ion 98.00 (97.70 to 98.70): VN  
 Ion 100.00 (99.70 to 100.70): VN

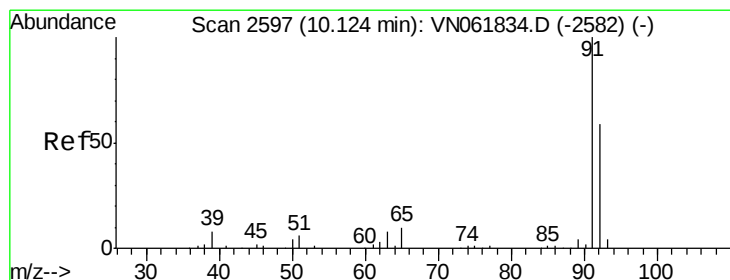
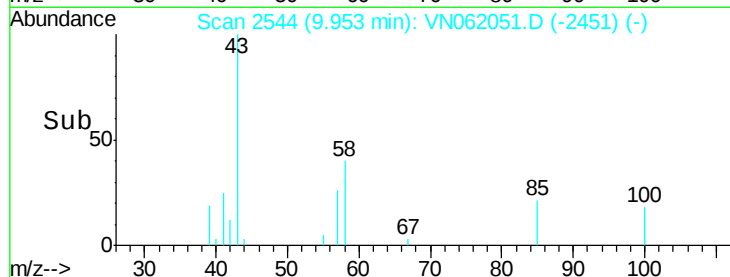
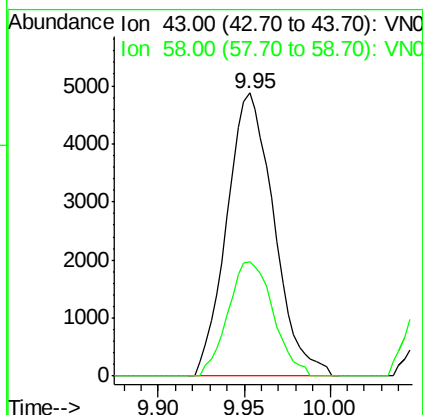
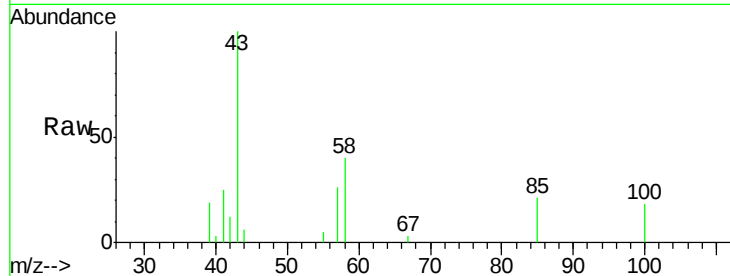




#51  
4-Methyl-2-Pentanone  
Concen: 4.728 ug/l  
RT: 9.95 min Scan# 2544  
Delta R.T. -0.00 min  
Lab File: VN062051.D  
Acq: 23 Jun 2020 19:01

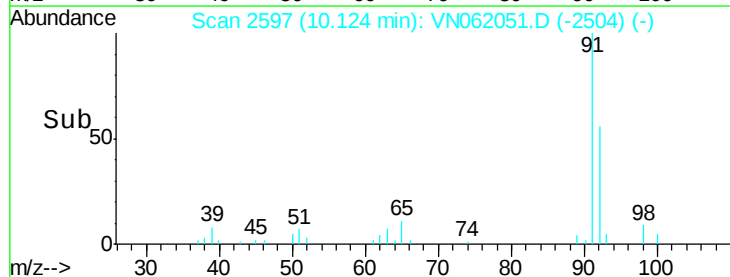
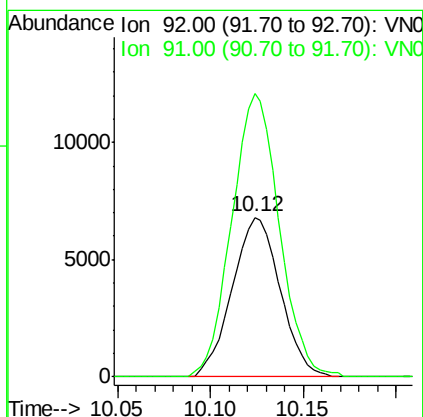
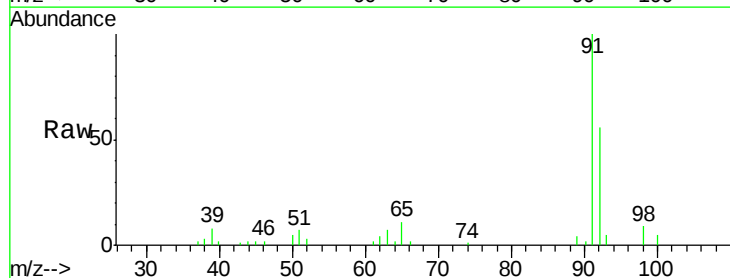
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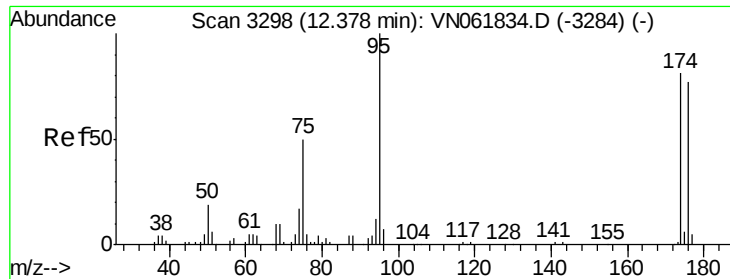
Tot Ion: 43 Resp: 9295  
Ion Ratio Lower Upper  
43 100  
58 38.6 34.6 52.0



#52  
Toluene  
Concen: 2.544 ug/l  
RT: 10.12 min Scan# 2597  
Delta R.T. -0.00 min  
Lab File: VN062051.D  
Acq: 23 Jun 2020 19:01

Tgt Ion: 92 Resp: 12235  
Ion Ratio Lower Upper  
92 100  
91 175.1 137.1 205.7

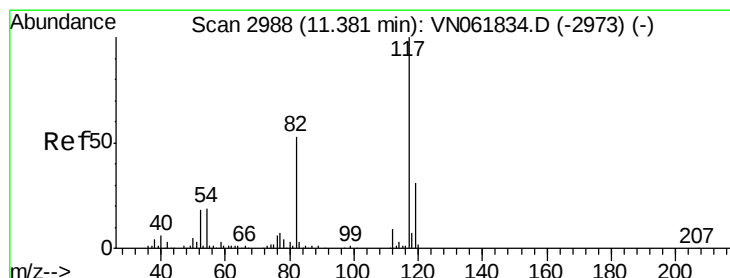
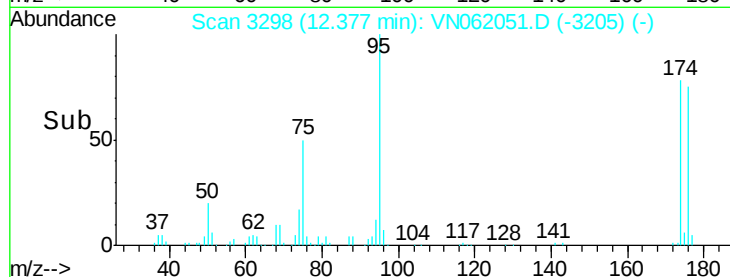
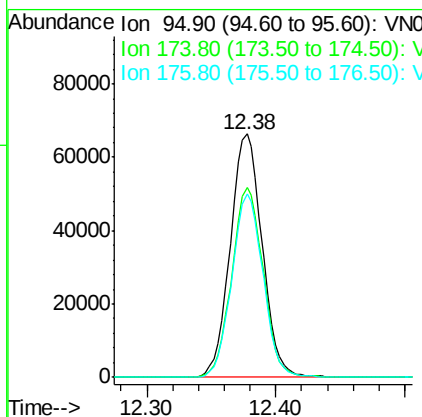
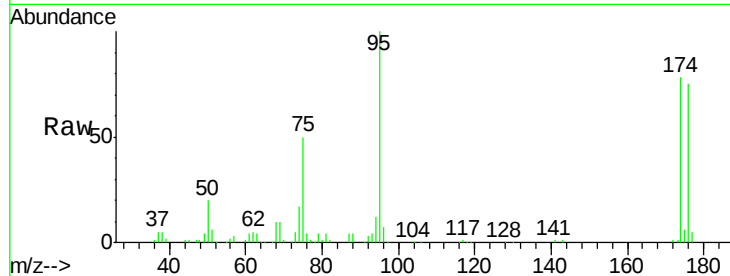




#62  
 4-Bromofluorobenzene  
 Concen: 47.677 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. -0.00 min  
 Lab File: VN062051.D  
 Acq: 23 Jun 2020 19:01

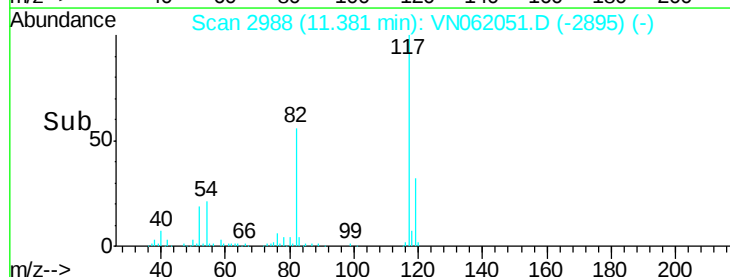
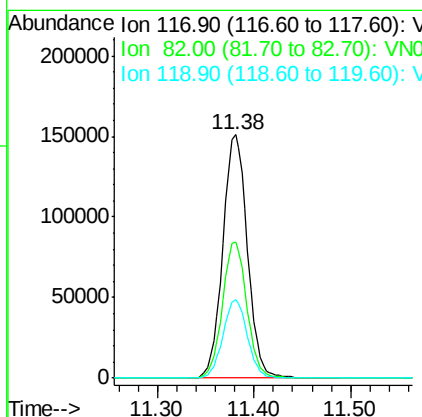
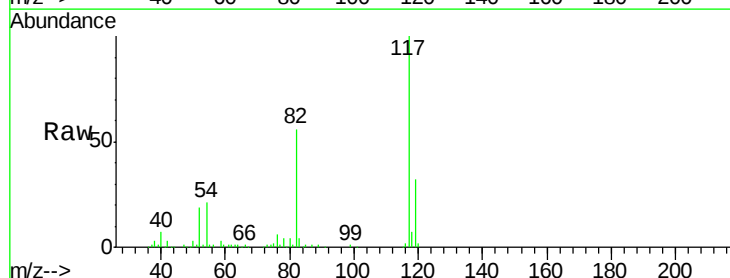
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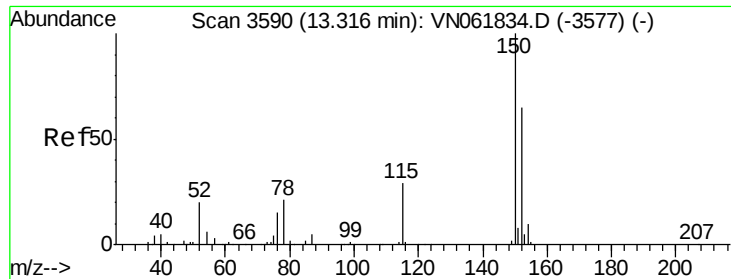
Tot Ion: 95 Resp: 113993  
 Ion Ratio Lower Upper  
 95 100  
 174 77.1 0.0 158.6  
 176 73.8 0.0 152.0



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.38 min Scan# 2988  
 Delta R.T. -0.00 min  
 Lab File: VN062051.D  
 Acq: 23 Jun 2020 19:01

Tgt Ion: 117 Resp: 266184  
 Ion Ratio Lower Upper  
 117 100  
 82 56.0 42.6 64.0  
 119 32.2 24.7 37.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA\_N

ClientSampleId :

LF001MW001-200615DL2

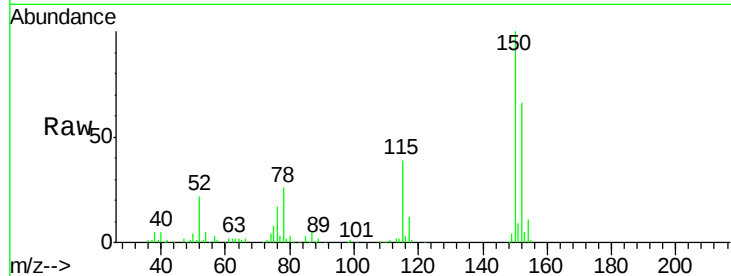
Tot Ion:152 Resp: 101920

Ion Ratio Lower Upper

152 100

115 58.9 29.1 87.3

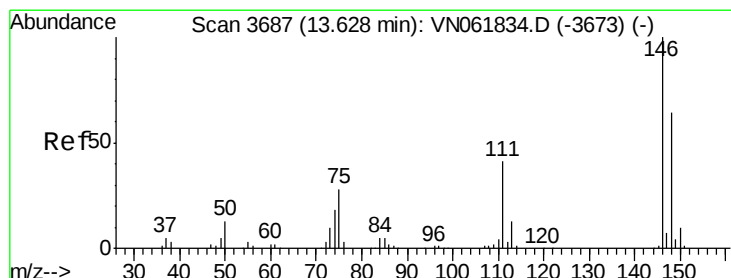
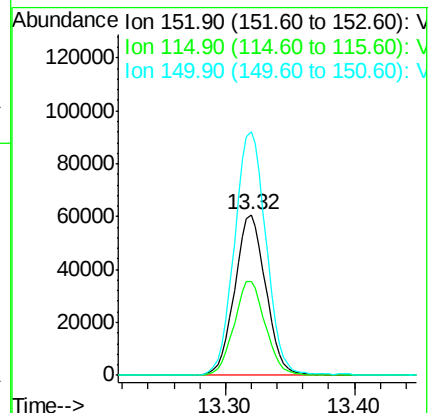
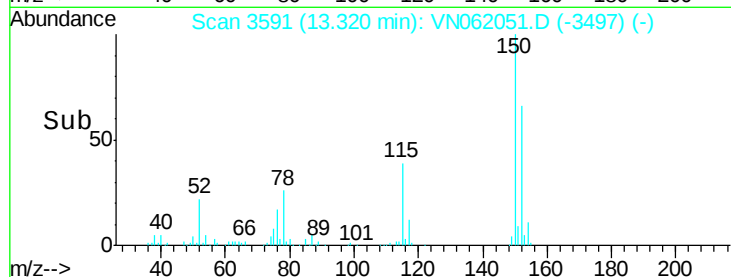
150 154.1 0.0 347.6



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



#91

1,2-Dichlorobenzene

Concen: 0.707 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. -0.00 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

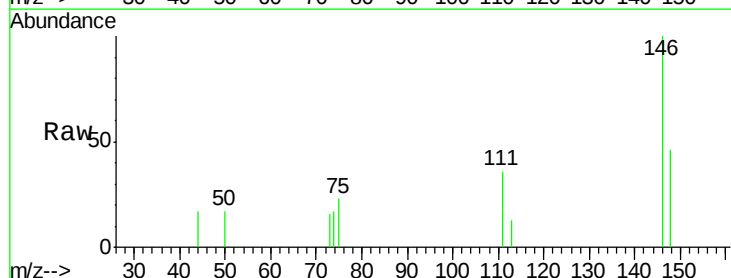
Tgt Ion:146 Resp: 2269

Ion Ratio Lower Upper

146 100

111 37.4 20.4 61.2

148 52.9 31.8 95.4



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

