

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\  
 Data File : VN061907.D  
 Acq On : 18 Jun 2020 18:03  
 Operator : JC/MD  
 Sample : L3026-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S49-0573

Quant Time: Jun 19 05:28:08 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  | 133713   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 247972   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 238000   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 89006    | 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   | 91816    | 51.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.40% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 81401    | 51.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.62% |          |
| 50) Toluene-d8              | 10.06 | 98   | 309892   | 49.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.38%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 99737    | 46.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.24%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 14) Allyl chloride             | 4.03  | 41   | 1092     | 0.606  | ug/l # | 40     |
| 16) Acetone                    | 3.78  | 43   | 5637     | 10.642 | ug/l   | 93     |
| 24) 1,1-Dichloroethane         | 5.80  | 63   | 1658     | 0.614  | ug/l # | 82     |
| 25) 2-Butanone                 | 6.80  | 43   | 879      | 1.137  | ug/l # | 44     |
| 31) Cyclohexane                | 7.63  | 56   | 2957     | 1.251  | ug/l # | 32     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 10571    | 4.674  | ug/l # | 47     |
| 37) Ethyl Acetate              | 6.80  | 43   | 879      | 0.498  | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 13644    | 6.092  | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1220     | 0.694  | ug/l # | 1      |
| 71) Bromoform                  | 12.38 | 173  | 986      | 0.772  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 49576    | 28.371 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 49576    | 77.380 | ug/l # | 14     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061907.D

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Instrument :

MSVOA\_N

ClientSampled :

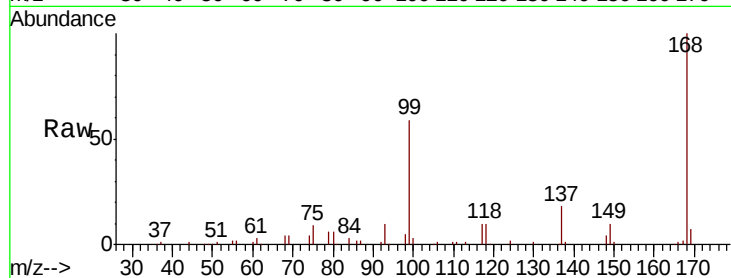
S49-0573

Tot Ion:168 Resp: 133713

Ion Ratio Lower Upper

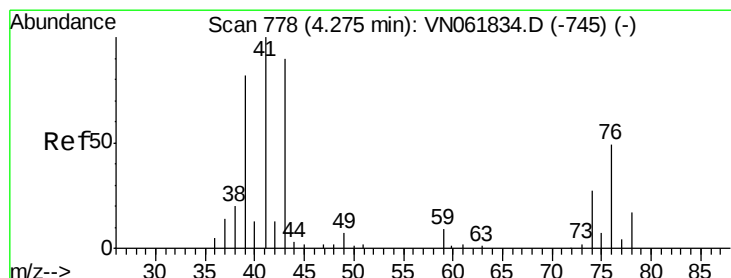
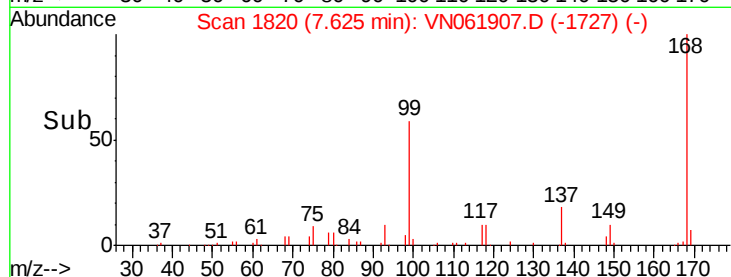
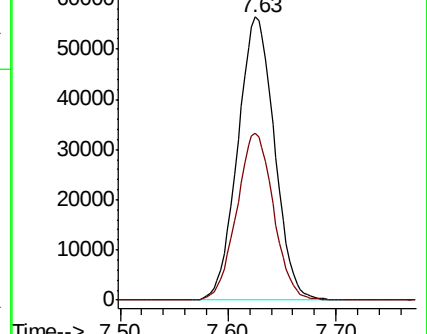
168 100

99 59.2 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#14

Allyl chloride

Concen: 0.606 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.25 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

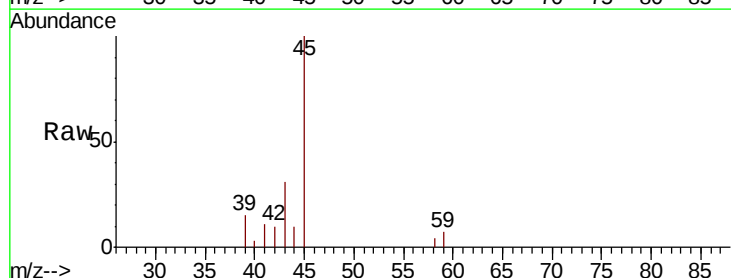
Tgt Ion: 41 Resp: 1092

Ion Ratio Lower Upper

41 100

39 129.7 60.2 90.2#

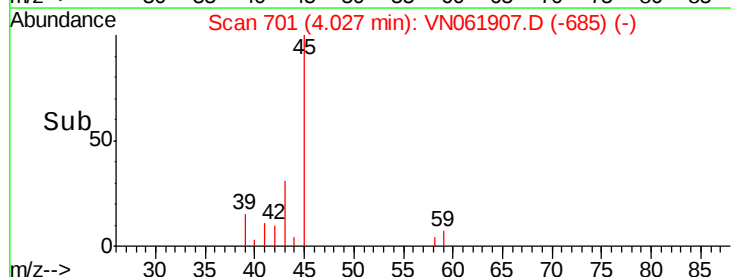
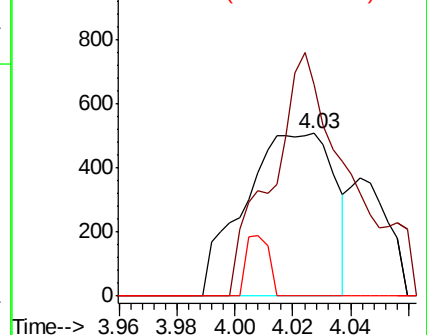
76 9.3 36.3 54.5#

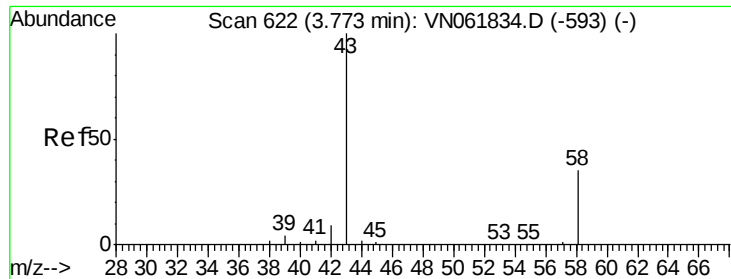


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN





#16

Acetone

Concen: 10.642 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

Instrument :

MSVOA\_N

ClientSampleId :

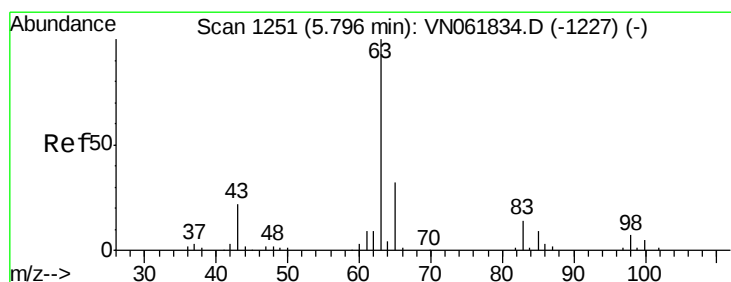
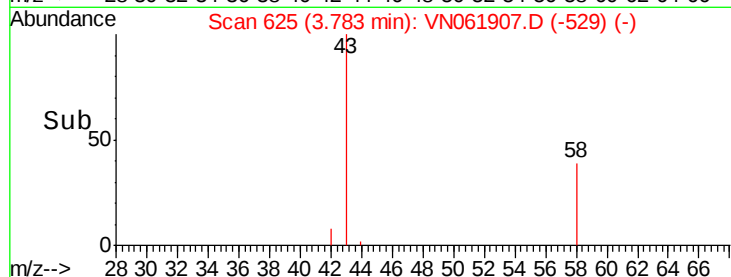
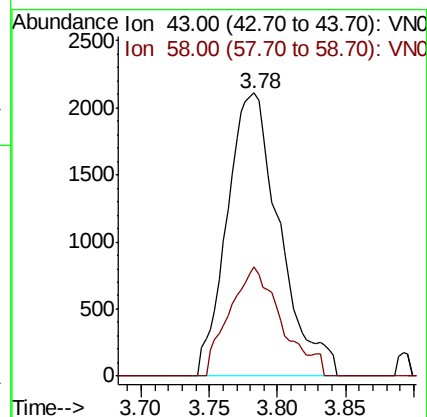
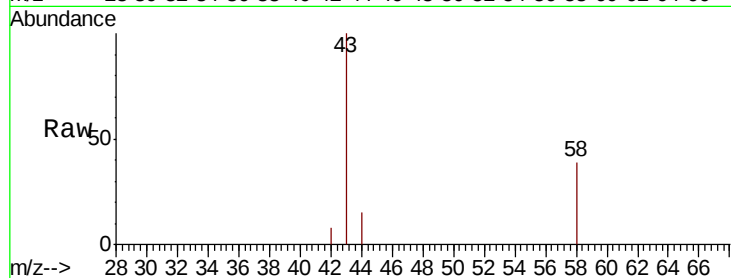
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Tot Ion: 43 Resp: 5637

Ion Ratio Lower Upper

43 100

58 38.6 27.8 41.8



#24

1,1-Dichloroethane

Concen: 0.614 ug/l

RT: 5.80 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

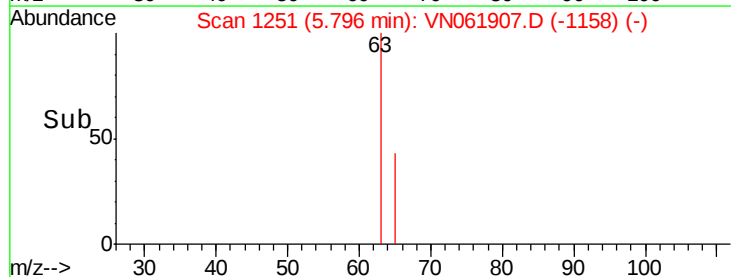
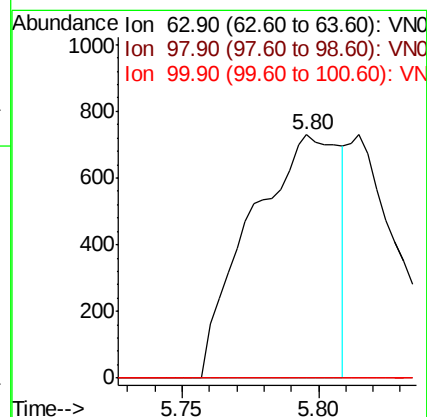
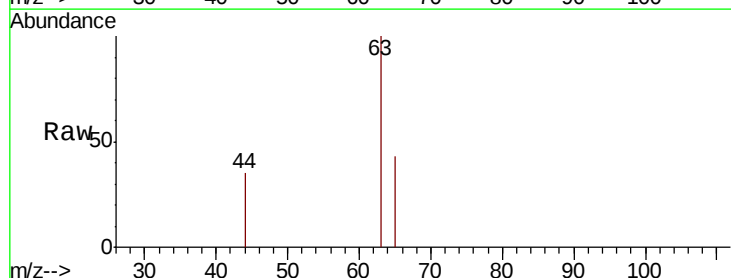
Tgt Ion: 63 Resp: 1658

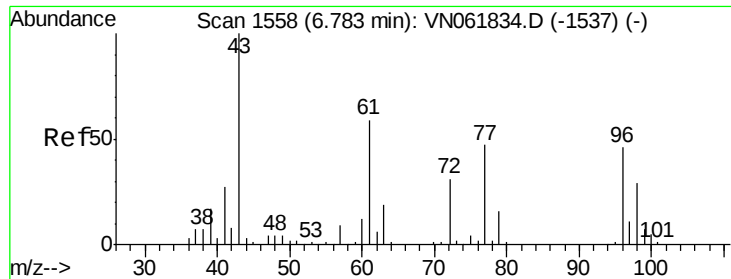
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.5 7.4#

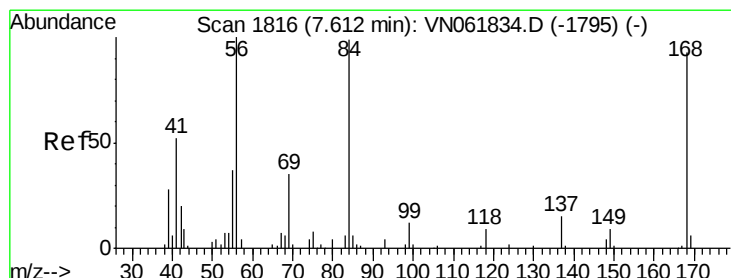
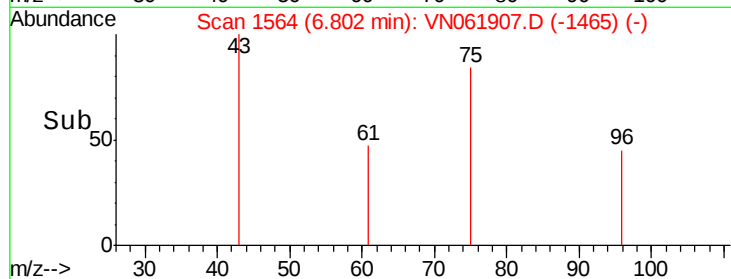
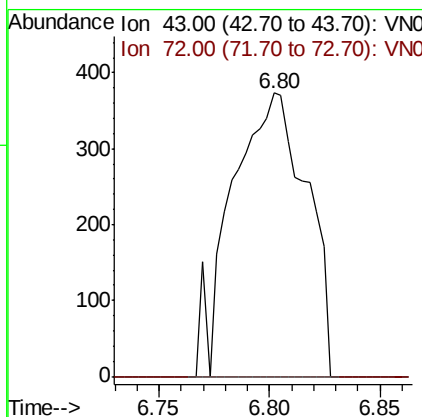
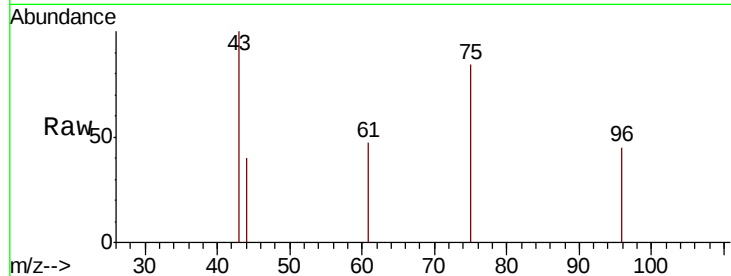




#25  
2-Butanone  
Concen: 1.137 ug/l  
RT: 6.80 min Scan# 1564  
Delta R.T. 0.02 min  
Lab File: VN061907.D  
Acq: 18 Jun 2020 18:03

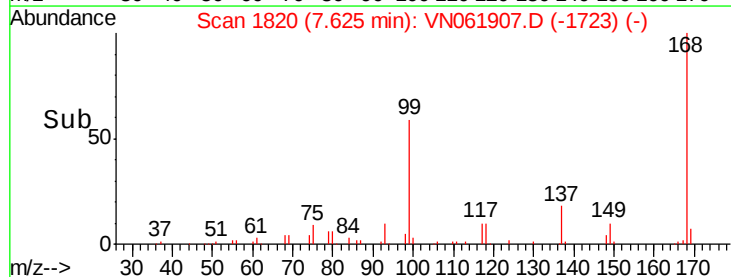
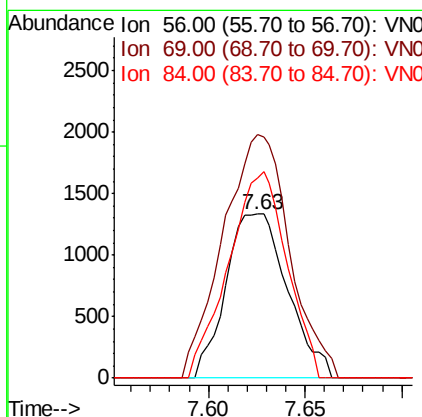
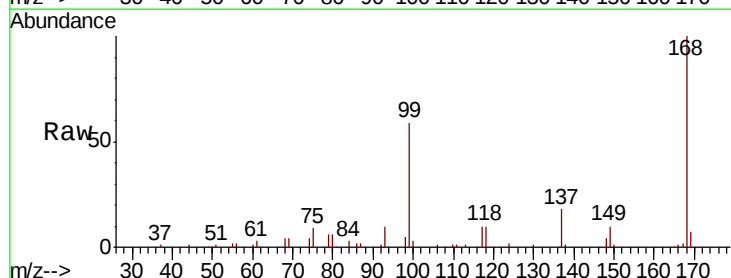
Instrument :  
MSVOA\_N  
ClientSampled :  
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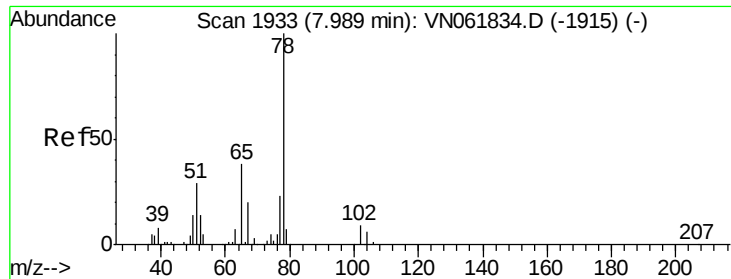
Tot Ion: 43 Resp: 879  
Ion Ratio Lower Upper  
43 100  
72 0.0 24.6 37.0#



#31  
Cyclohexane  
Concen: 1.251 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: VN061907.D  
Acq: 18 Jun 2020 18:03

Tgt Ion: 56 Resp: 2957  
Ion Ratio Lower Upper  
56 100  
69 148.2 27.7 41.5#  
84 121.6 79.1 118.7#

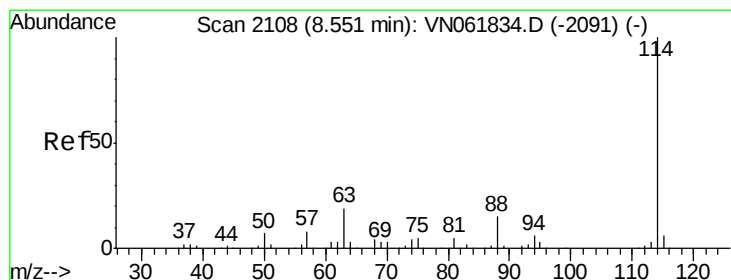
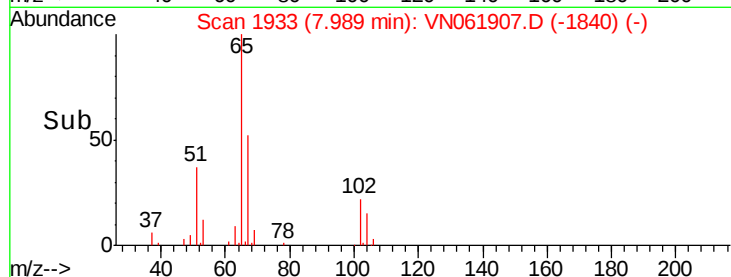
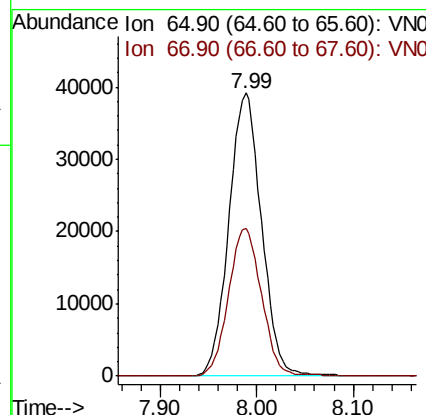
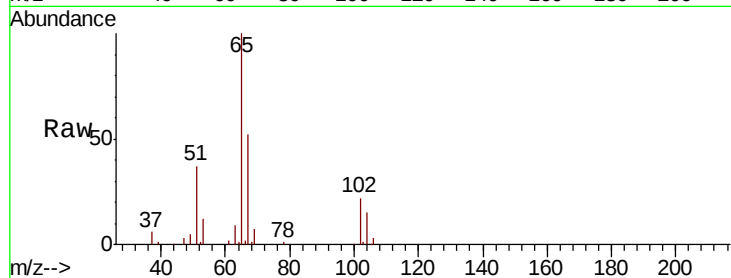




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.200 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. -0.00 min  
 Lab File: VN061907.D  
 Acq: 18 Jun 2020 18:03

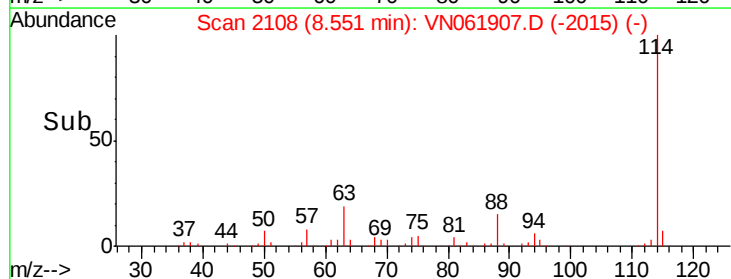
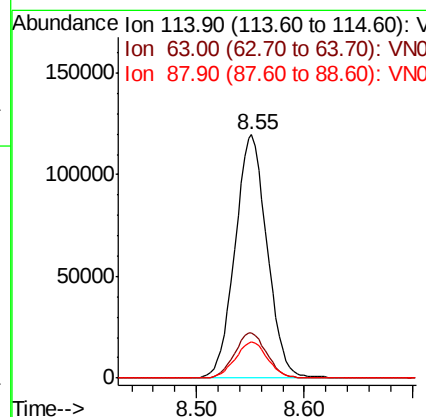
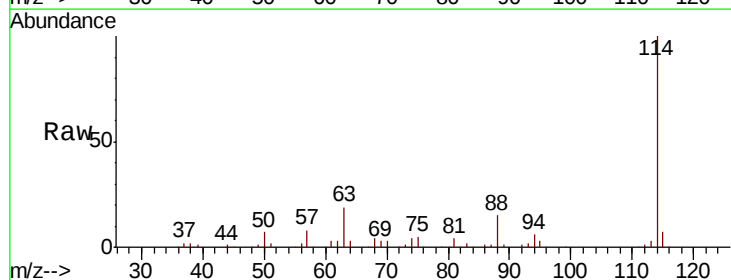
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S49-0573

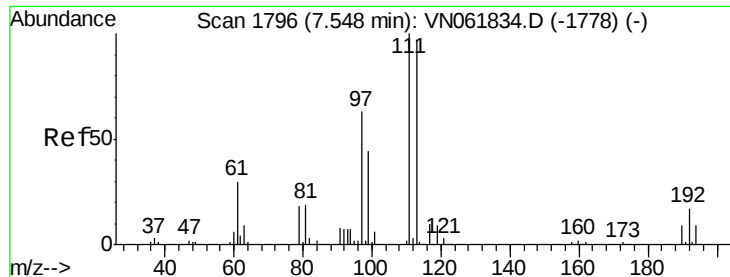
Tot Ion: 65 Resp: 91816  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061907.D  
 Acq: 18 Jun 2020 18:03

Tgt Ion: 114 Resp: 247972  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 37.6  
 88 14.7 0.0 31.0

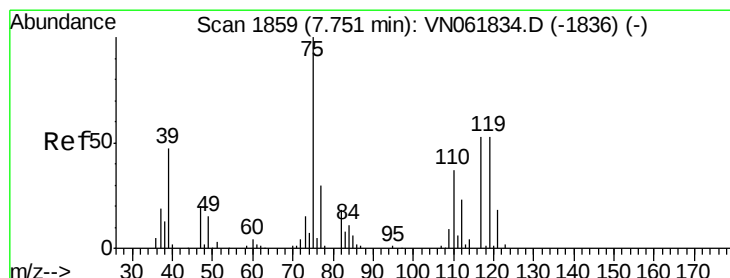
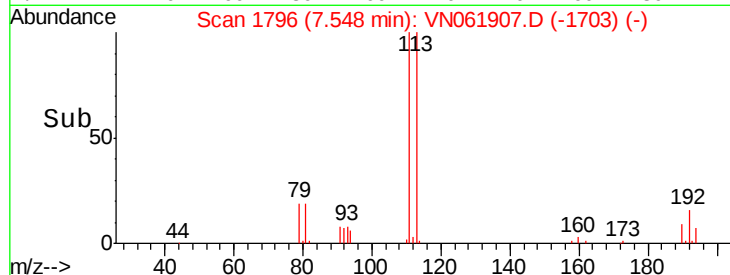
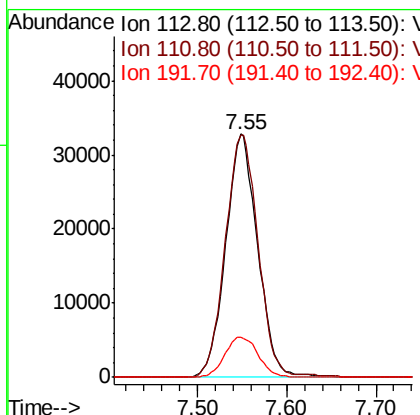
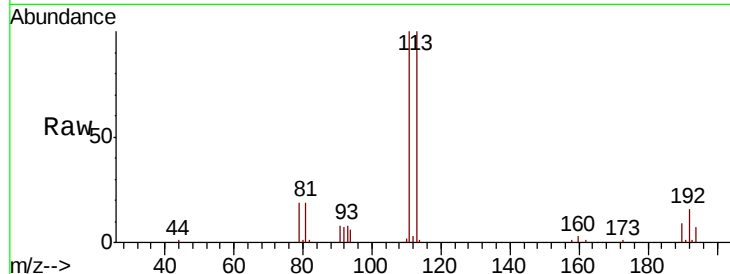




#35  
 Dibromofluoromethane  
 Concen: 51.312 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN061907.D  
 Acq: 18 Jun 2020 18:03

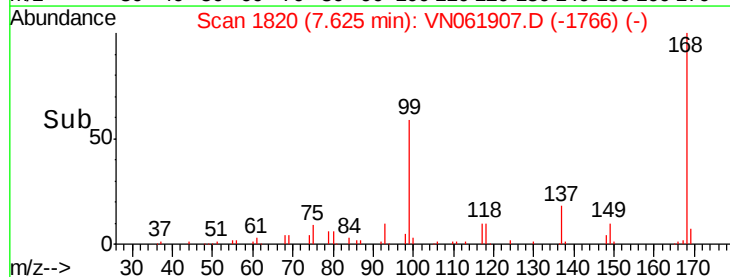
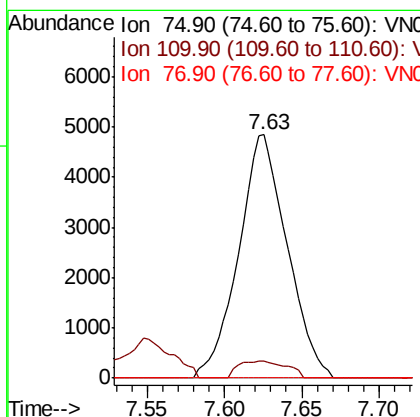
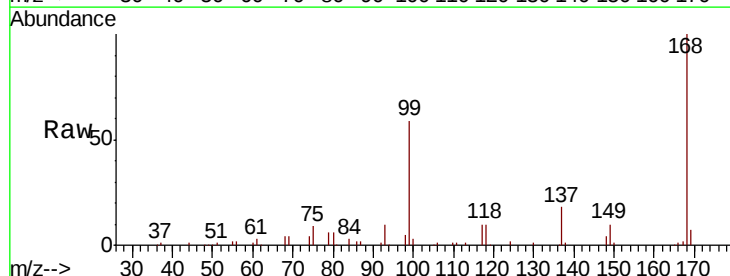
Instrument :  
 MSVOA\_N  
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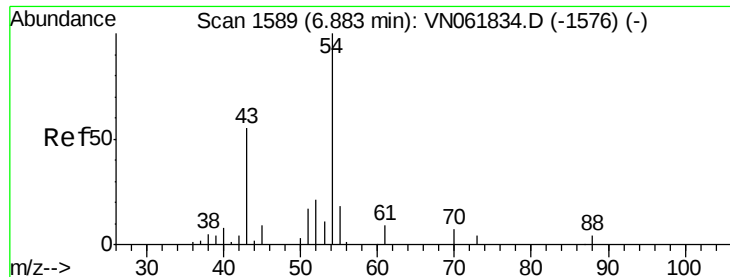
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 83.7  | 125.5 |
| 192     | 17.3  | 13.9  | 20.9  |



#36  
 1,1-Dichloropropene  
 Concen: 4.674 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN061907.D  
 Acq: 18 Jun 2020 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.9   | 18.2  | 54.6# |
| 77      | 0.0   | 24.2  | 36.4# |

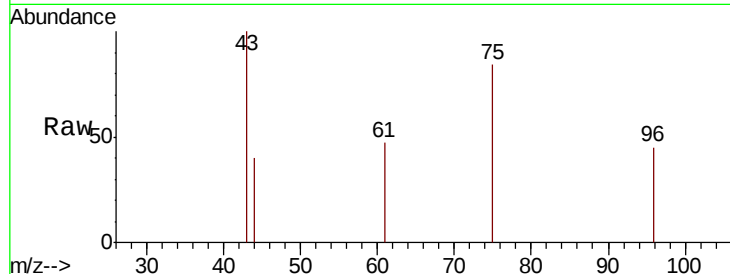




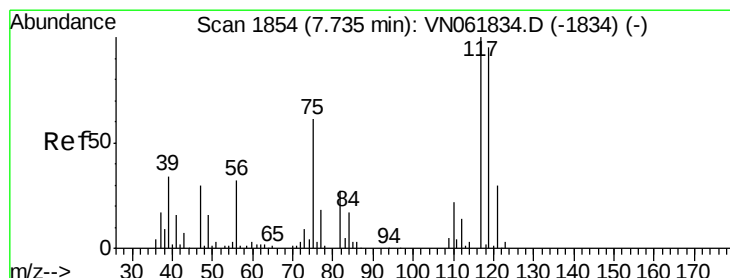
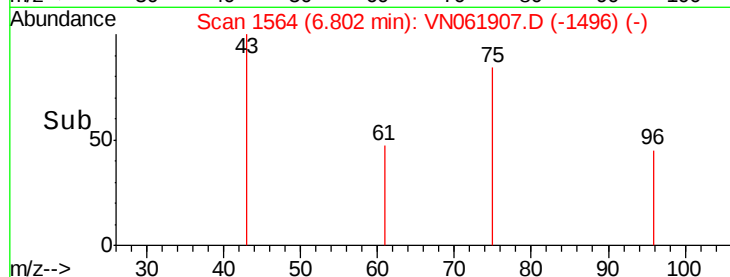
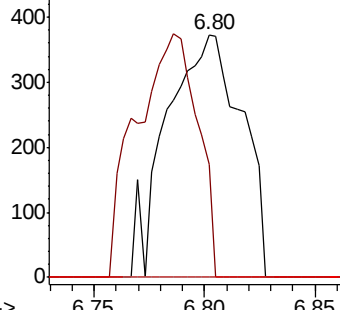
#37  
Ethyl Acetate  
Concen: 0.498 ug/l  
RT: 6.80 min Scan# 1564  
Delta R.T. -0.08 min  
Lab File: VN061907.D  
Acq: 18 Jun 2020 18:03

Instrument :  
MSVOA\_N  
ClientSampled :  
S49-0573

Tot Ion: 43 Resp: 879  
Ion Ratio Lower Upper  
43 100  
61 82.3 13.0 19.4#  
70 0.0 9.4 14.2#

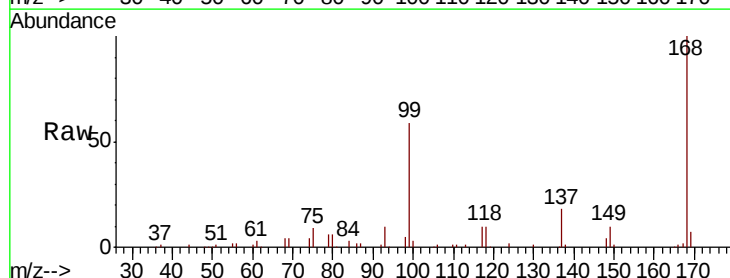


Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 70.00 (69.70 to 70.70): VN0

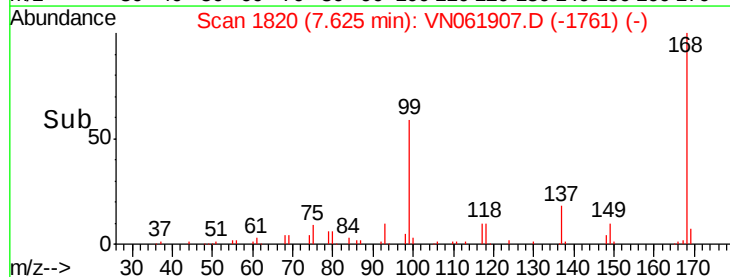
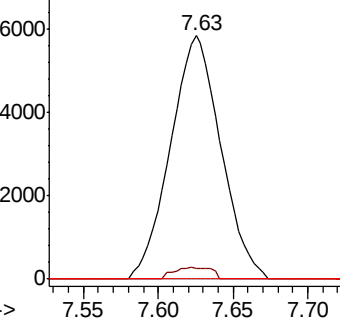


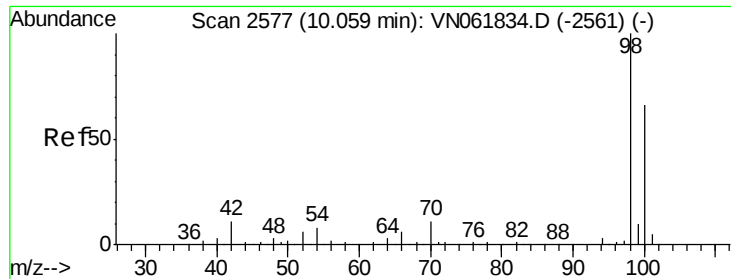
#38  
Carbon Tetrachloride  
Concen: 6.092 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. -0.11 min  
Lab File: VN061907.D  
Acq: 18 Jun 2020 18:03

Tgt Ion: 117 Resp: 13644  
Ion Ratio Lower Upper  
117 100  
119 4.5 75.8 113.6#  
121 0.0 23.8 35.6#



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





#50

Toluene-d8

Concen: 49.688 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

Instrument :

MSVOA\_N

ClientSampleId :

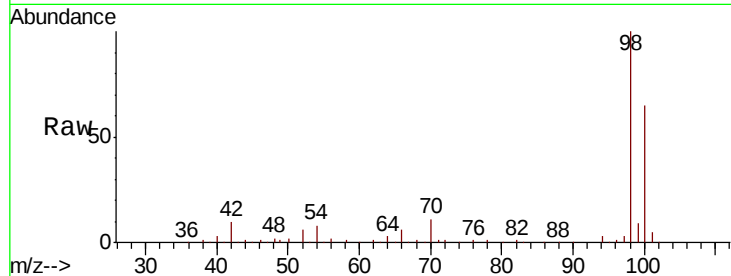
S49-0573

Tot Ion: 98 Resp: 309892

Ion Ratio Lower Upper

98 100

100 65.1 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

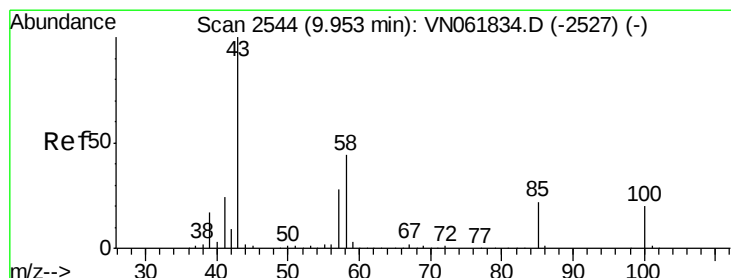
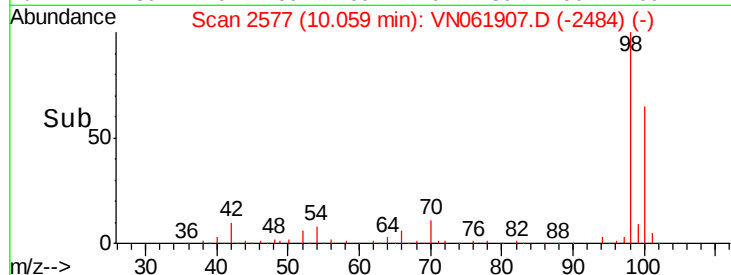
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.694 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061907.D

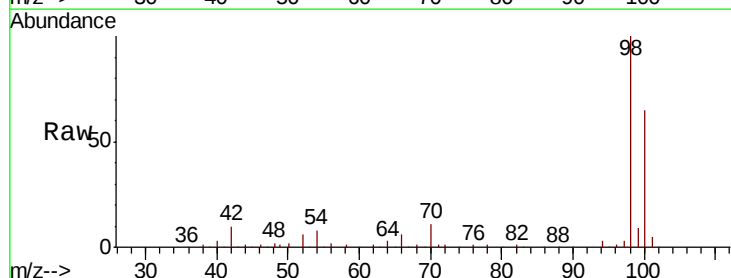
Acq: 18 Jun 2020 18:03

Tgt Ion: 43 Resp: 1220

Ion Ratio Lower Upper

43 100

58 185.2 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

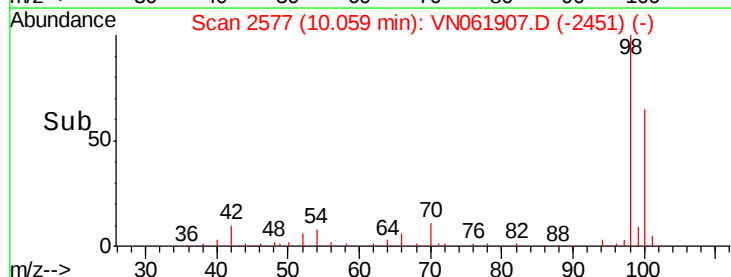
1500

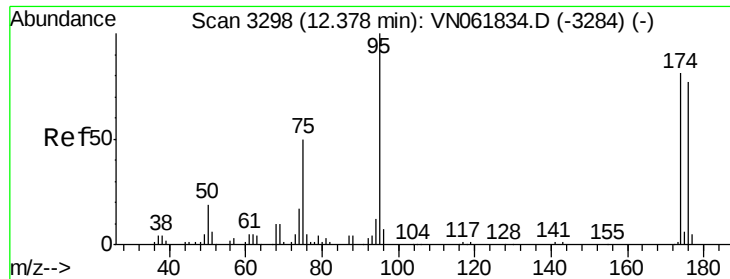
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 46.621 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

Instrument :

MSVOA\_N

ClientSampleId :

S49-0573

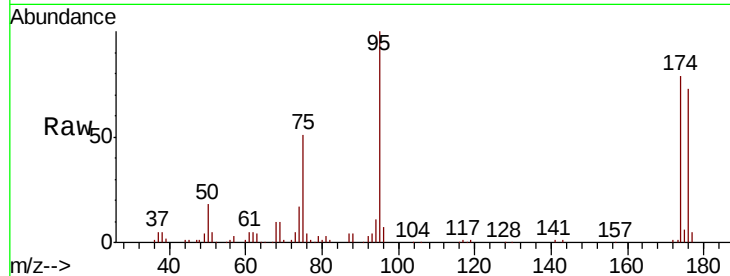
Tot Ion: 95 Resp: 99737

Ion Ratio Lower Upper

95 100

174 79.6 0.0 158.6

176 75.1 0.0 152.0

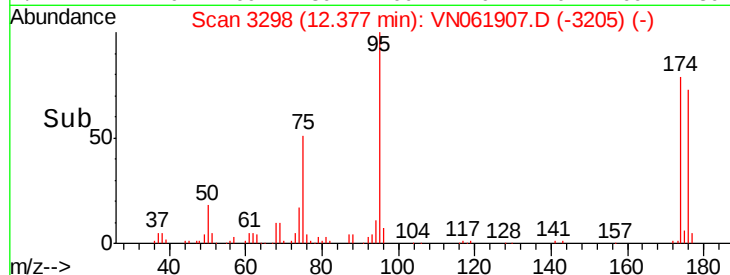


Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

Time-->



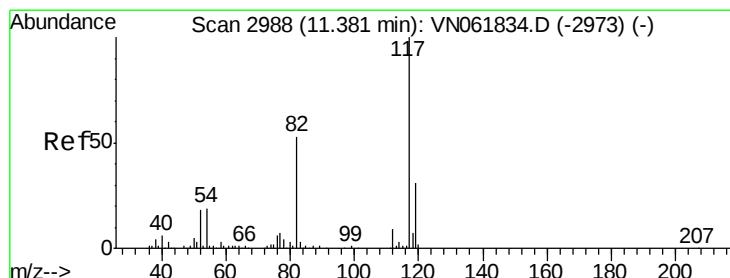
Abundance

Ion 94.90 (94.60 to 95.60): VN061907.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061907.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061907.D (-3205) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

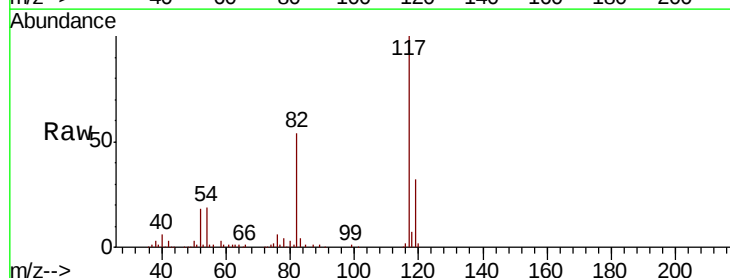
Tgt Ion: 117 Resp: 238000

Ion Ratio Lower Upper

117 100

82 53.7 42.6 64.0

119 32.0 24.7 37.1

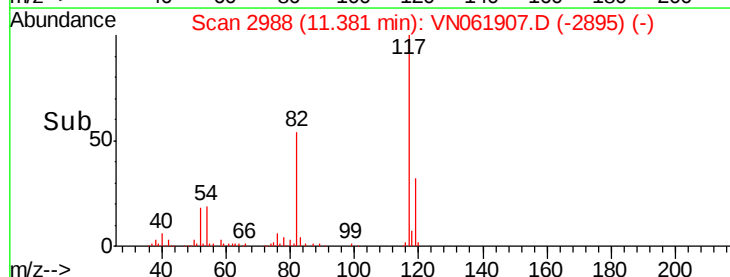


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)

Time-->



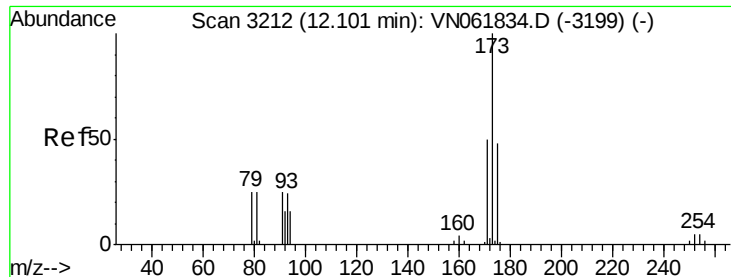
Abundance

Ion 116.90 (116.60 to 117.60): VN061907.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061907.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061907.D (-2895) (-)

Time-->



#71

Bromoform

Concen: 0.772 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

Instrument :

MSVOA\_N

ClientSampleId :

S49-0573

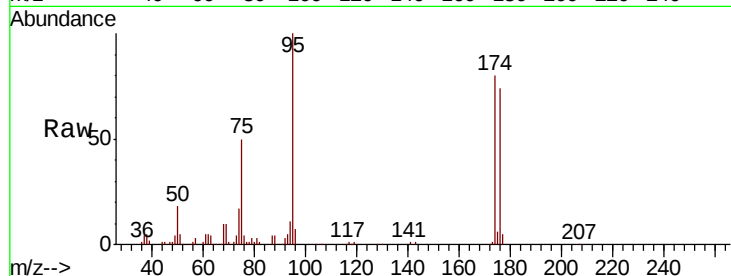
Tot Ion:173 Resp: 986

Ion Ratio Lower Upper

173 100

175 512.7 23.9 71.7#

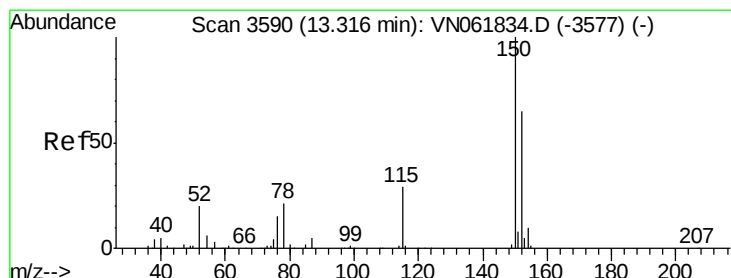
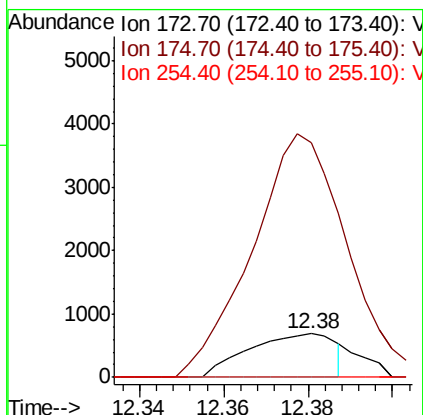
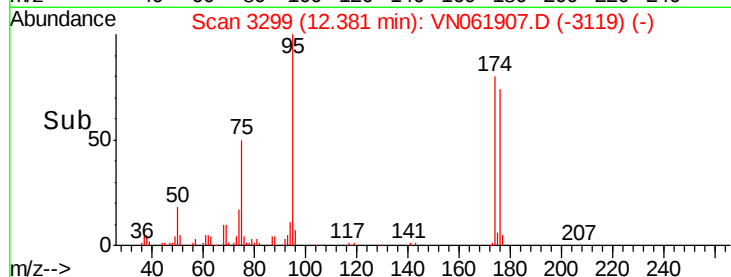
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN061907.D

Acq: 18 Jun 2020 18:03

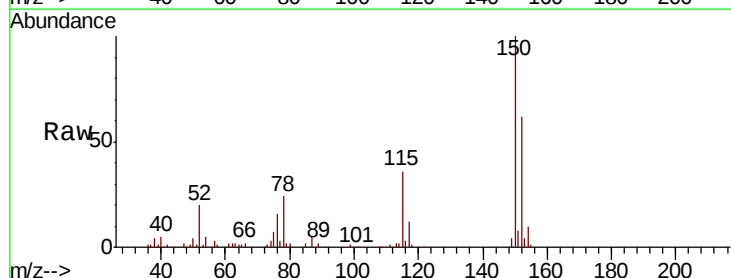
Tgt Ion:152 Resp: 89006

Ion Ratio Lower Upper

152 100

115 59.5 29.1 87.3

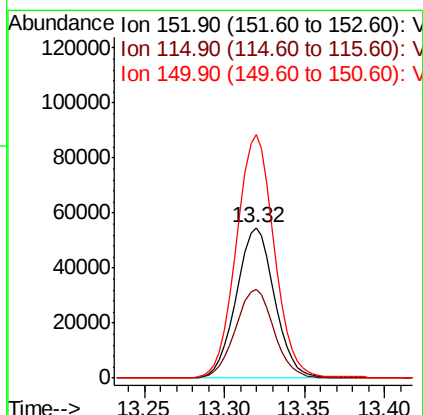
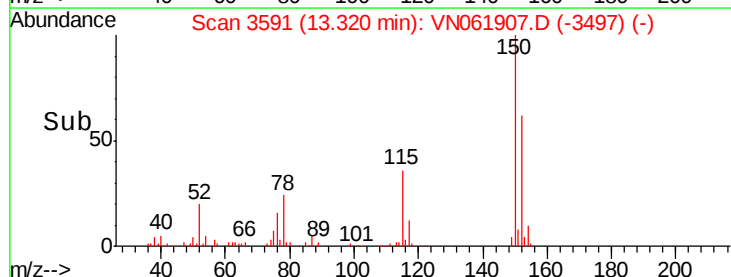
150 160.8 0.0 347.6

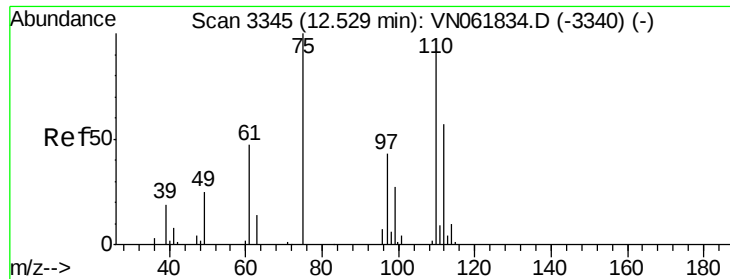


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

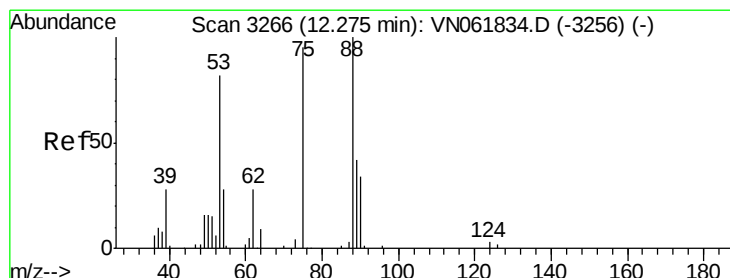
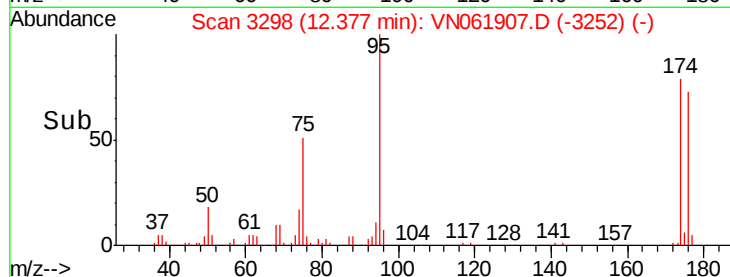
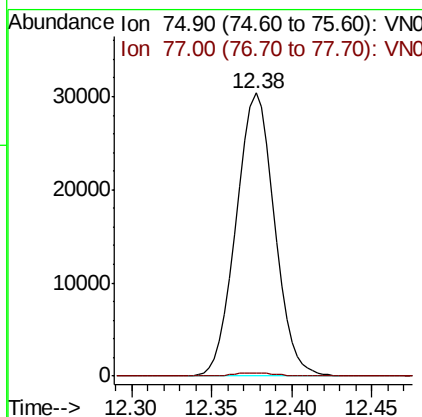
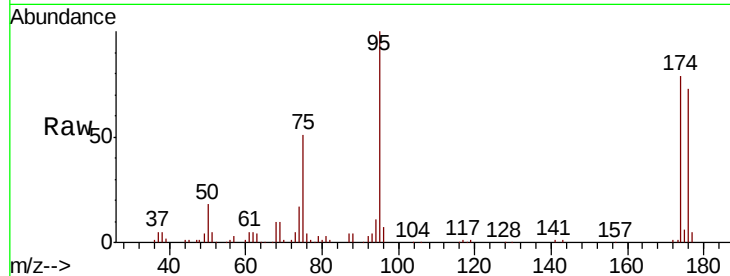




#76  
 1,2,3-Trichloropropane  
 Concen: 28.371 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. -0.15 min  
 Lab File: VN061907.D  
 Acq: 18 Jun 2020 18:03

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S49-0573

Tot Ion: 75 Resp: 49576  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 77.380 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. 0.10 min  
 Lab File: VN061907.D  
 Acq: 18 Jun 2020 18:03

Tgt Ion: 75 Resp: 49576  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 70.4 105.6#  
 89 0.0 36.0 54.0#

