

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\  
 Data File : VN062500.D  
 Acq On : 10 Jul 2020 18:21  
 Operator : JC/MD  
 Sample : L3273-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 11 02:09:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N070820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 00:55:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 183131   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 319944   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 307005   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 112249   | 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   | 140255   | 49.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.58%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 104129   | 52.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.30% |          |
| 50) Toluene-d8              | 10.06 | 98   | 413368   | 52.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.90% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 145847   | 51.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.24% |          |

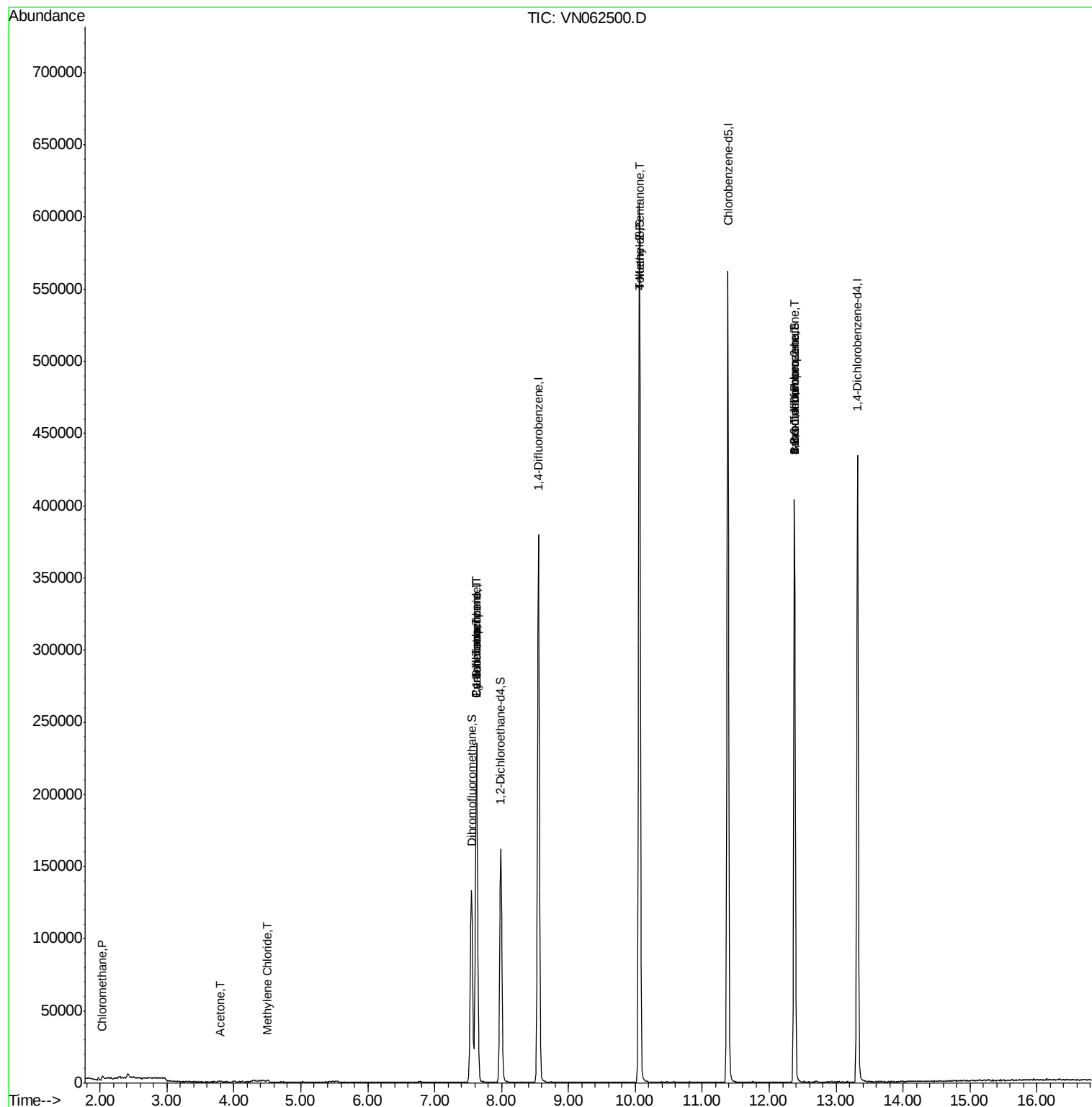
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.03  | 50   | 2146     | 0.717     | ug/l   | 96     |
| 16) Acetone                    | 3.79  | 43   | 1453     | 1.215     | ug/l # | 45     |
| 20) Methylene Chloride         | 4.51  | 84   | 776      | 0.303     | ug/l # | 73     |
| 31) Cyclohexane                | 7.63  | 56   | 4327     | 1.011     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 16285    | 5.052     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 18608    | 6.421     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 2138     | 0.601     | ug/l # | 1      |
| 71) Bromoform                  | 12.38 | 173  | 806      | 0.500     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 76687    | 27.844    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 76687    | 74.526    | ug/l # | 10     |
| 95) Naphthalene                | 15.12 | 128  | 228      | Below Cal | #      | 70     |

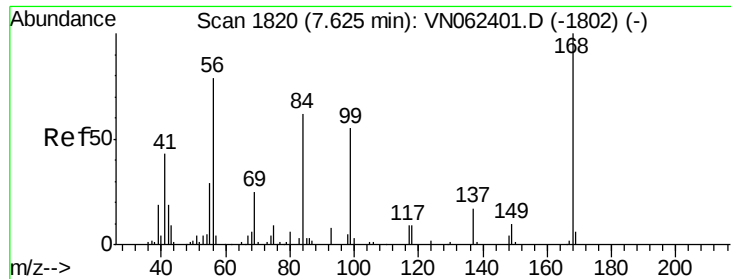
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN071020\  
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MSVOA\_N  
ClientSampleId :

Quant Time: Jul 11 02:09:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N070820W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 10 00:55:52 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: VN062500.D

Acq: 10 Jul 2020 18:21

Instrument :

MSVOA\_N

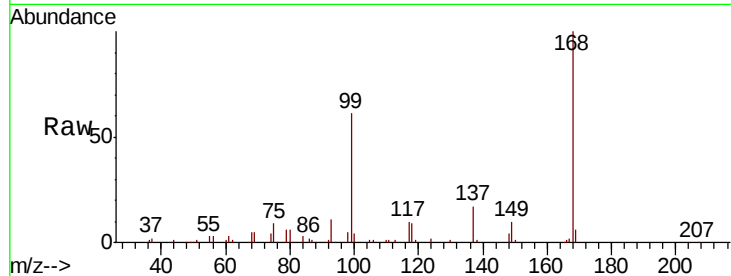
ClientSampled :

Tot Ion:168 Resp: 183131

Ion Ratio Lower Upper

168 100

99 60.6 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

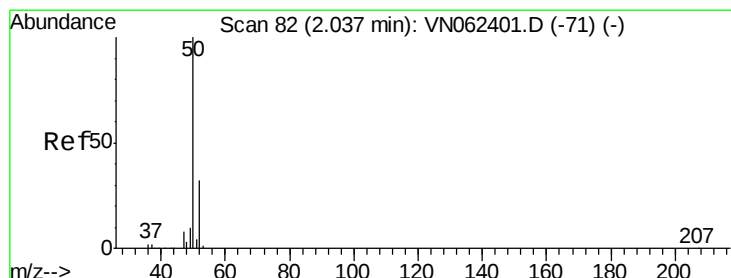
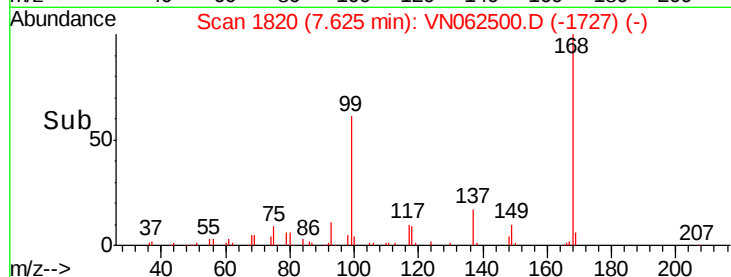
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.717 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN062500.D

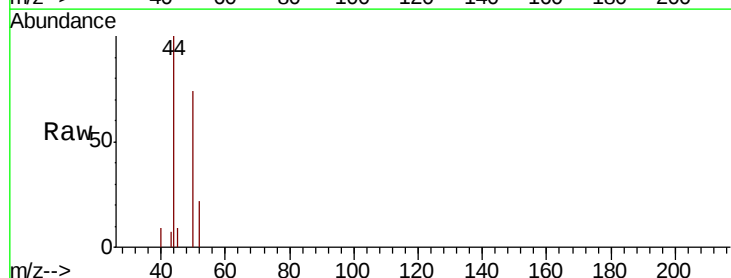
Acq: 10 Jul 2020 18:21

Tgt Ion: 50 Resp: 2146

Ion Ratio Lower Upper

50 100

52 29.7 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

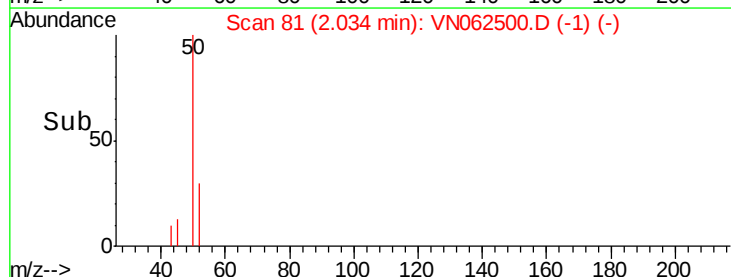
1500

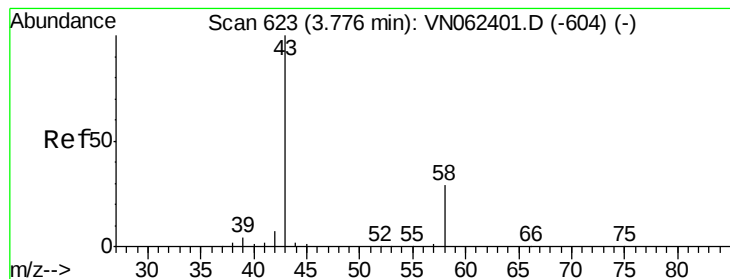
1000

500

0

Time--> 2.00 2.02 2.04 2.06 2.08





#16

Acetone

Concen: 1.215 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

Instrument :

MSVOA\_N

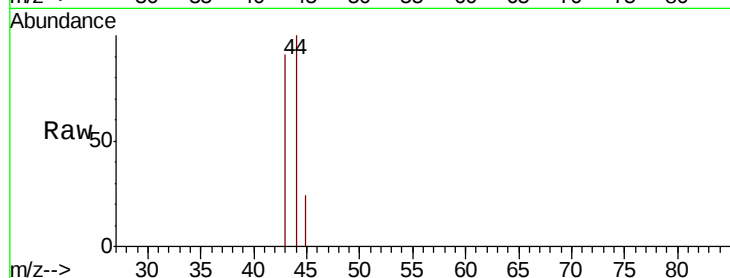
ClientSampleId :

Tot Ion: 43 Resp: 1453

Ion Ratio Lower Upper

43 100

58 0.0 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.79

600

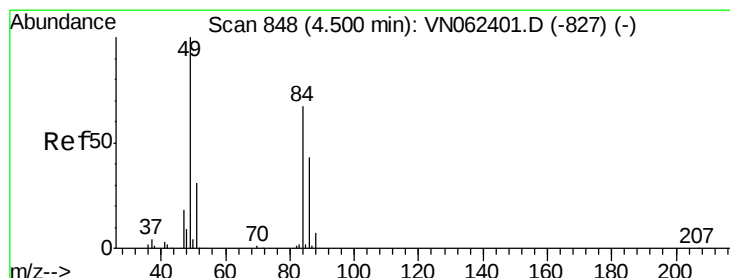
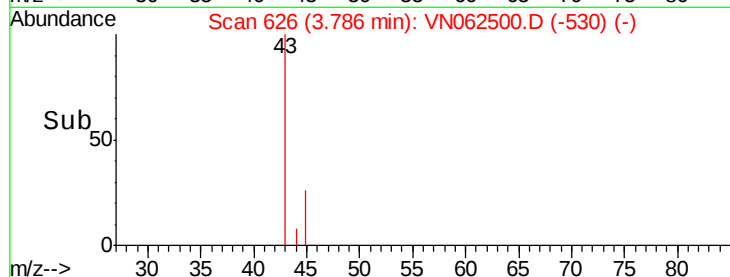
400

200

0

Time-->

3.75 3.80 3.85



#20

Methylene Chloride

Concen: 0.303 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.01 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

Tgt Ion: 84 Resp: 776

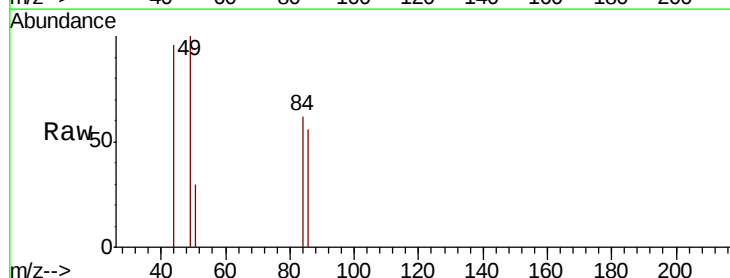
Ion Ratio Lower Upper

84 100

49 109.7 120.0 180.0#

51 48.1 37.0 55.6

86 90.6 51.8 77.6#



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

800

600

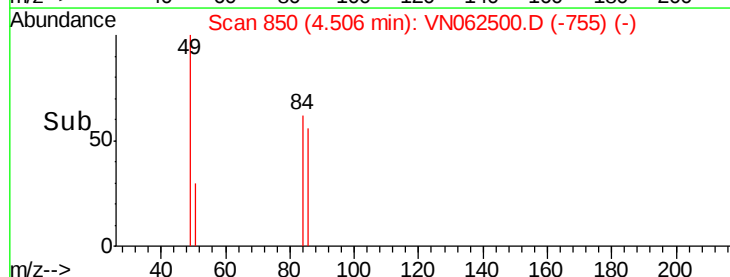
400

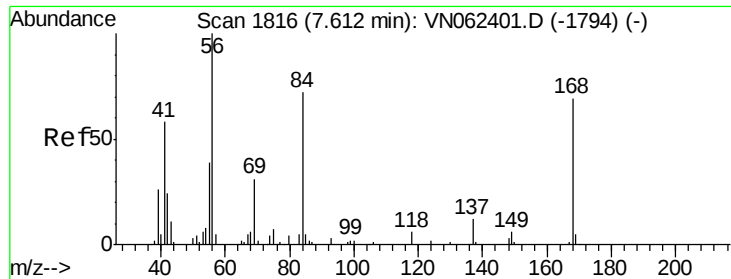
200

0

Time-->

4.45 4.50 4.55

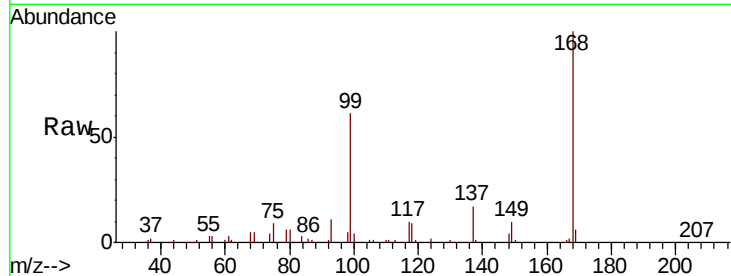




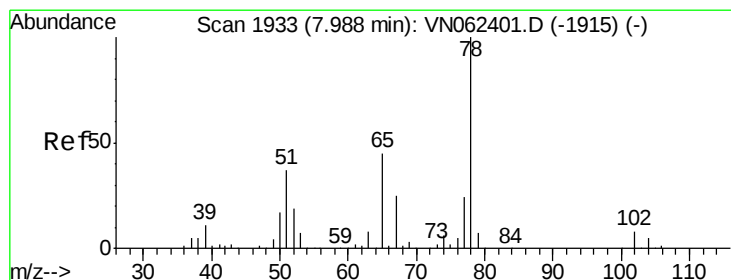
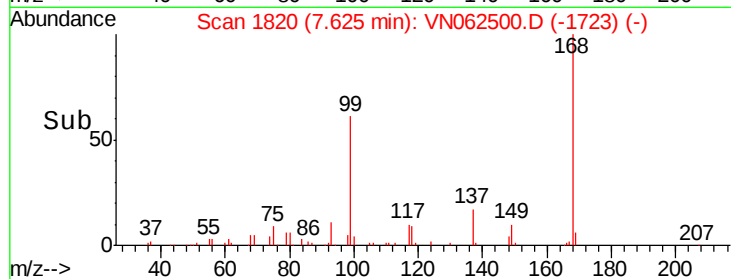
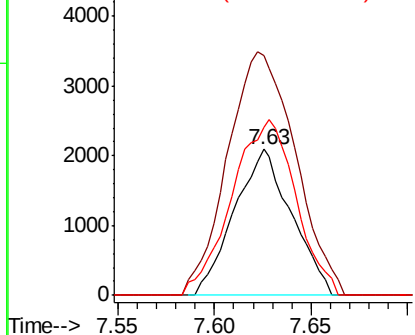
#31  
Cyclohexane  
Concen: 1.011 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: VN062500.D  
Acq: 10 Jul 2020 18:21

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 56 Resp: 4327  
Ion Ratio Lower Upper  
56 100  
69 153.6 24.5 36.7#  
84 114.8 57.4 86.2#

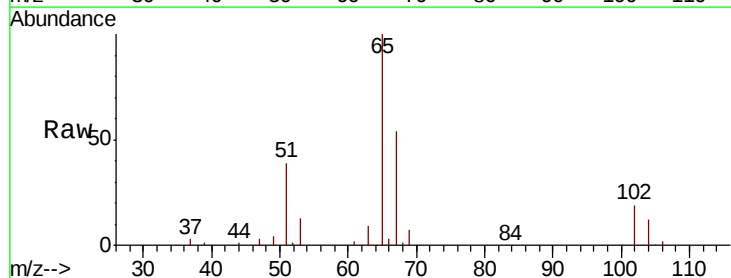


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

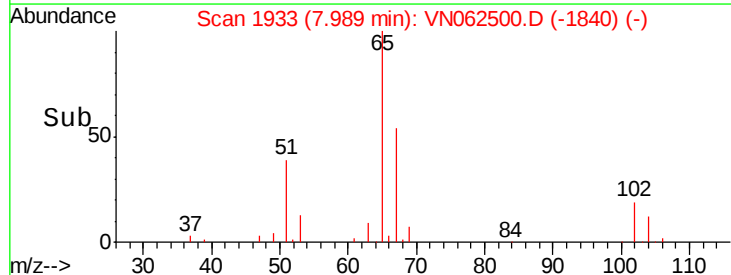
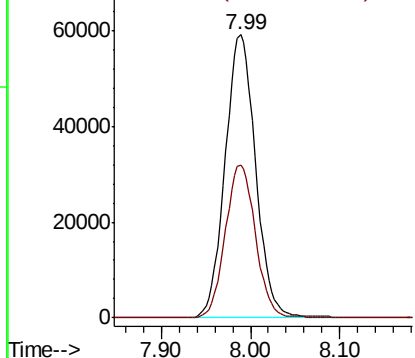


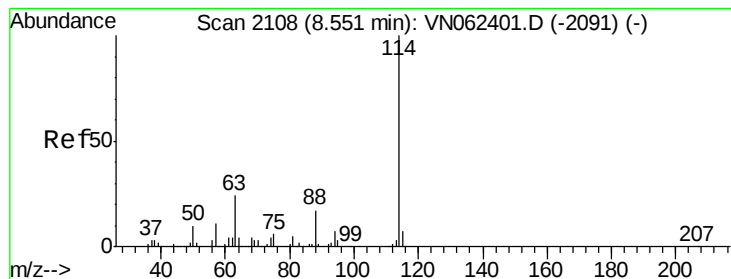
#33  
1,2-Dichloroethane-d4  
Concen: 49.793 ug/l  
RT: 7.99 min Scan# 1933  
Delta R.T. 0.00 min  
Lab File: VN062500.D  
Acq: 10 Jul 2020 18:21

Tgt Ion: 65 Resp: 140255  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

Instrument :

MSVOA\_N

ClientSampleId :

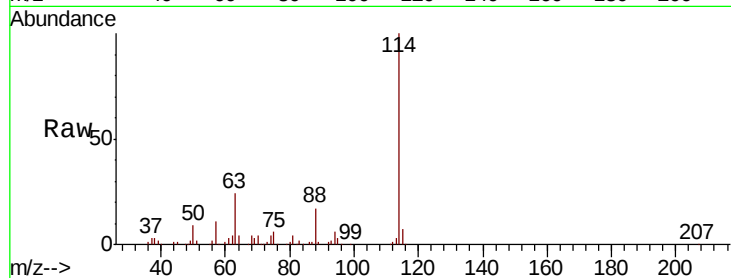
Tot Ion:114 Resp: 319944

Ion Ratio Lower Upper

114 100

63 23.8 0.0 48.4

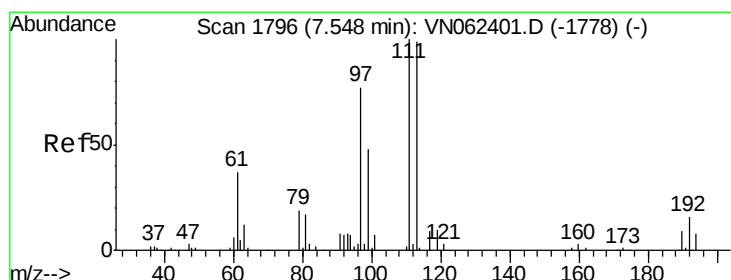
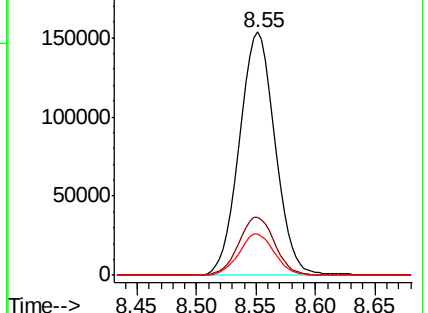
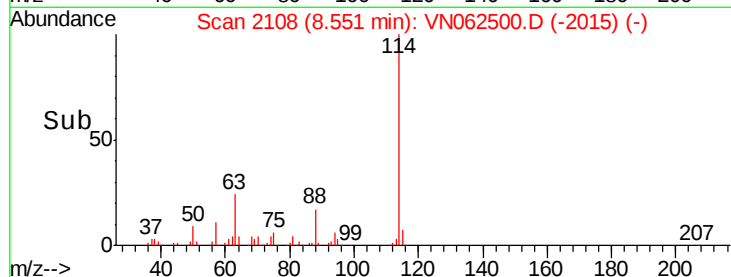
88 17.0 0.0 33.8



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: 52.652 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

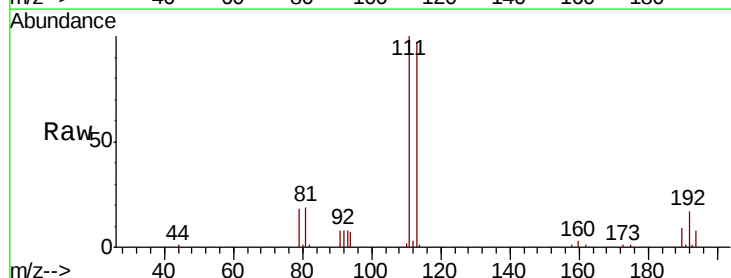
Tgt Ion:113 Resp: 104129

Ion Ratio Lower Upper

113 100

111 102.8 83.1 124.7

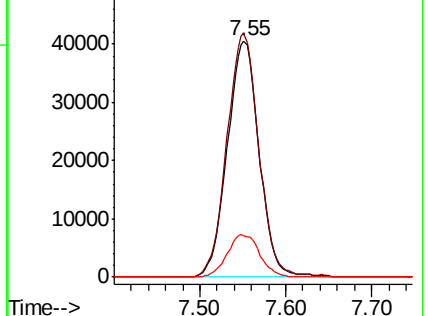
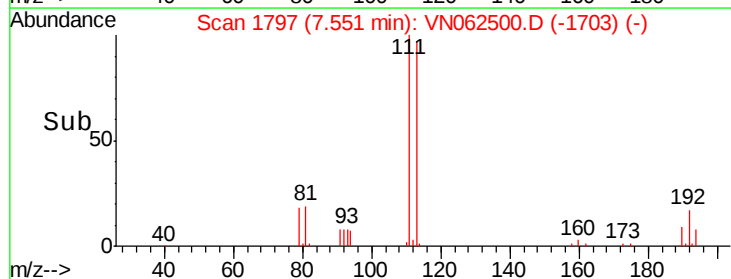
192 18.5 14.1 21.1

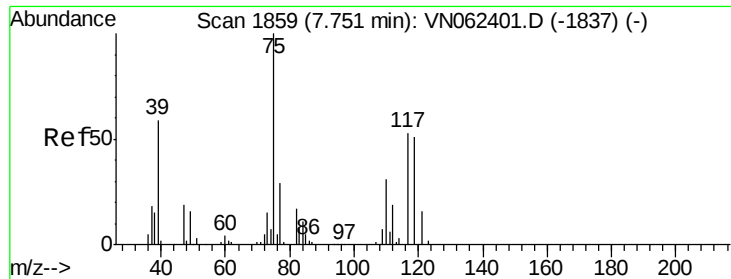


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

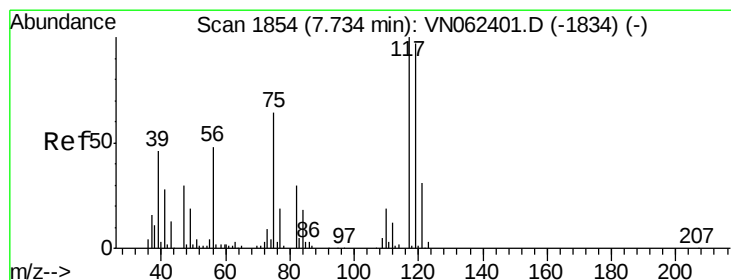
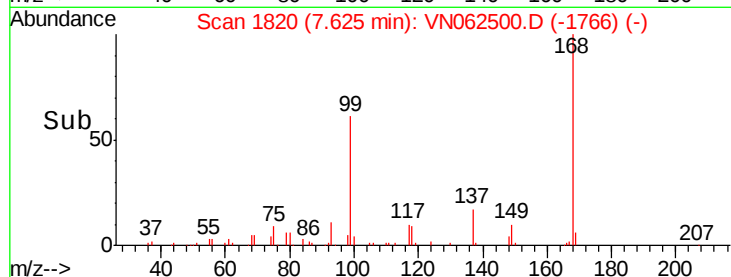
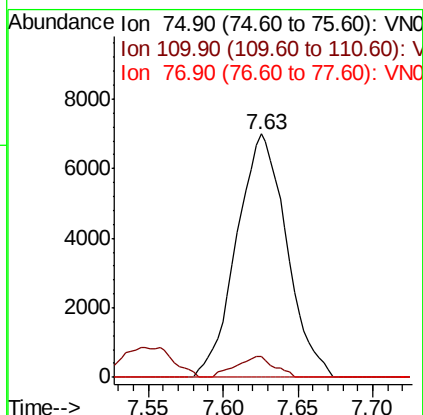
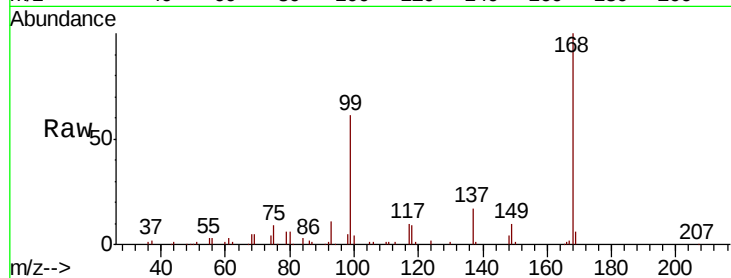




#36  
 1,1-Dichloropropene  
 Concen: 5.052 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN062500.D  
 Acq: 10 Jul 2020 18:21

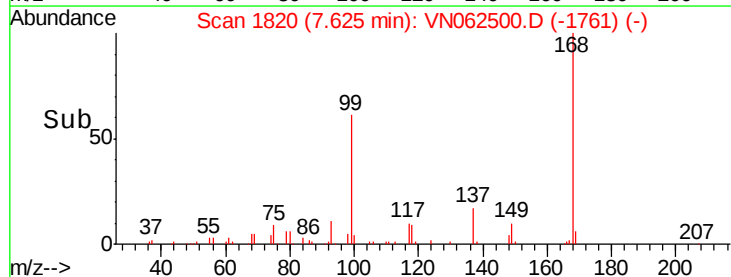
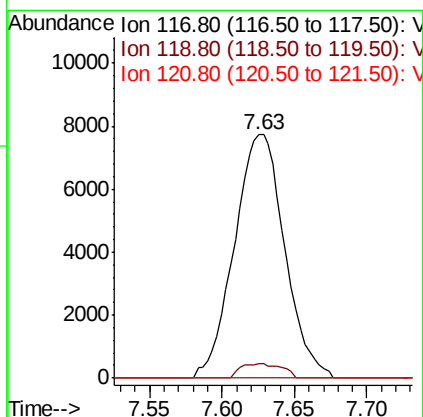
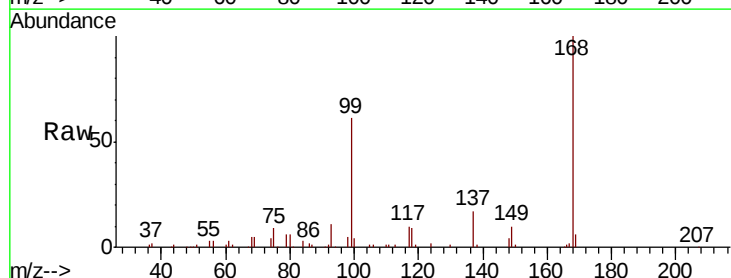
Instrument :  
 MSVOA\_N  
 ClientSampled :

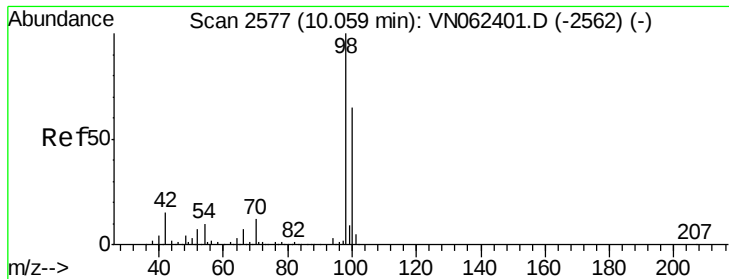
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.6   | 15.4  | 46.2# |
| 77      | 0.0   | 24.1  | 36.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.421 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.11 min  
 Lab File: VN062500.D  
 Acq: 10 Jul 2020 18:21

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.1   | 77.2  | 115.8# |
| 121     | 0.0   | 24.8  | 37.2#  |





#50

Toluene-d8

Concen: 52.946 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

Instrument :

MSVOA\_N

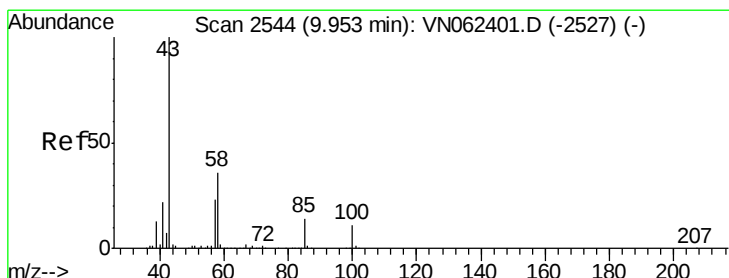
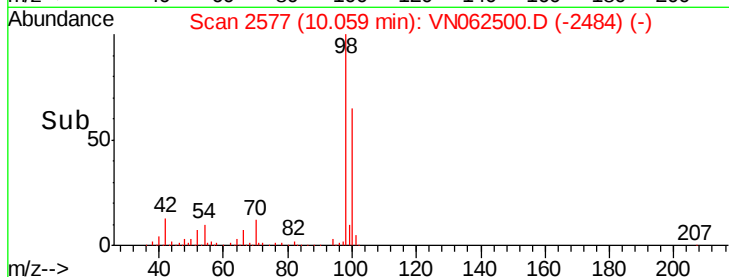
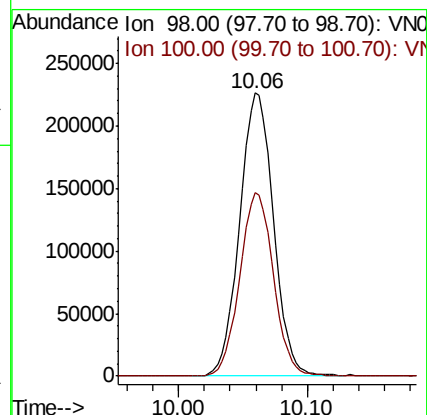
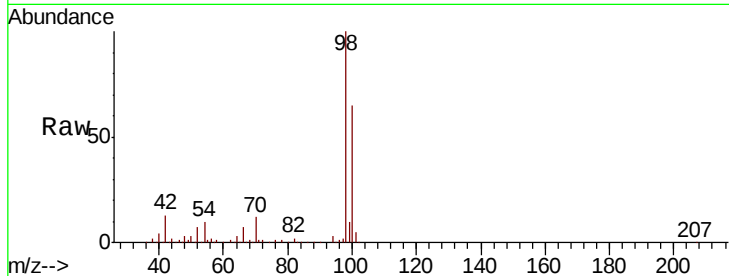
ClientSampled :

Tot Ion: 98 Resp: 413368

Ion Ratio Lower Upper

98 100

100 64.6 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.601 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN062500.D

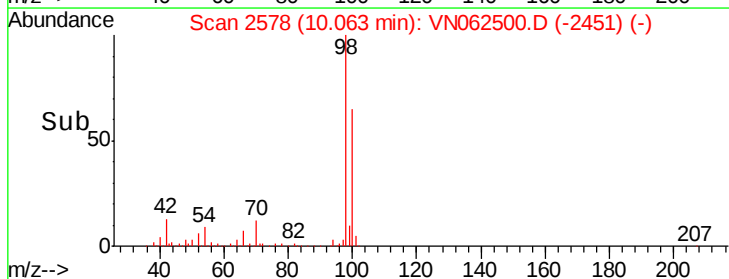
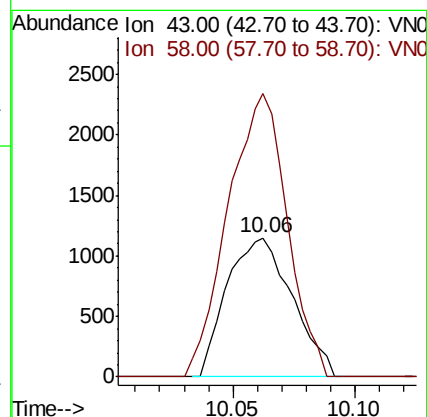
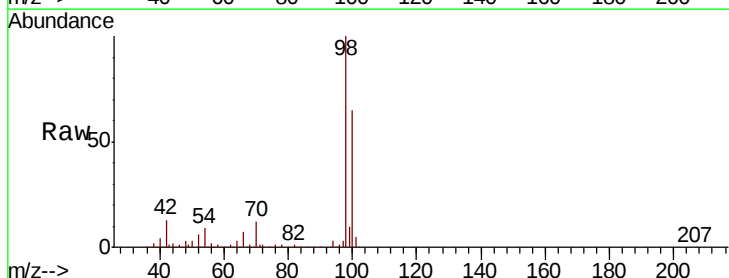
Acq: 10 Jul 2020 18:21

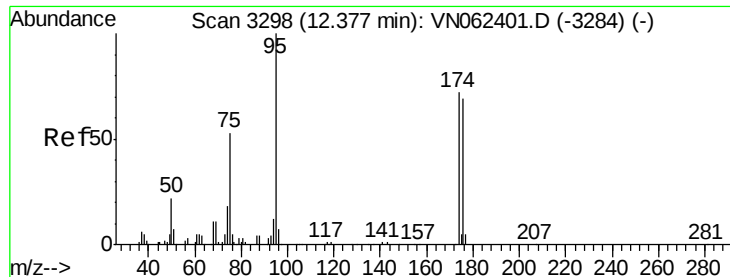
Tgt Ion: 43 Resp: 2138

Ion Ratio Lower Upper

43 100

58 183.9 29.0 43.6#





#62

4-Bromofluorobenzene

Concen: 51.120 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

Instrument :

MSVOA\_N

ClientSampleId :

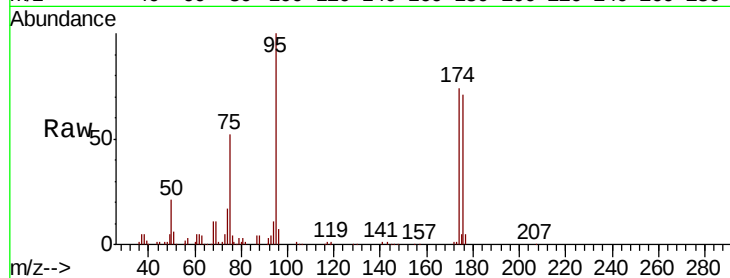
Tot Ion: 95 Resp: 145847

Ion Ratio Lower Upper

95 100

174 72.3 0.0 141.6

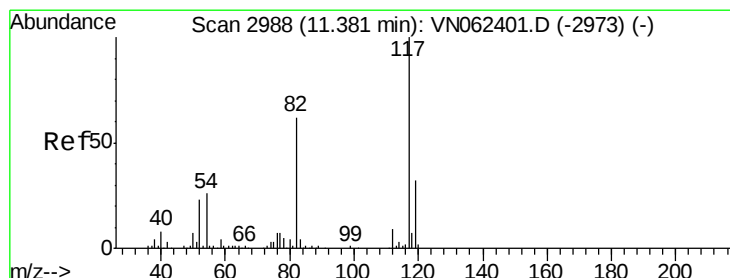
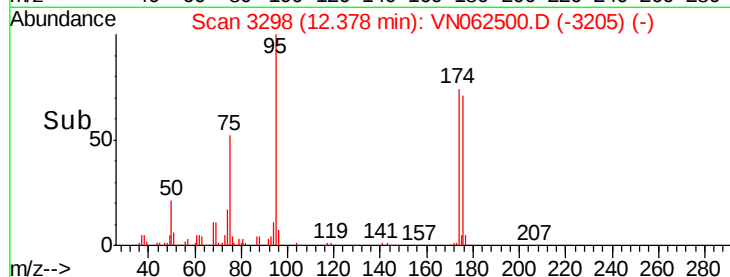
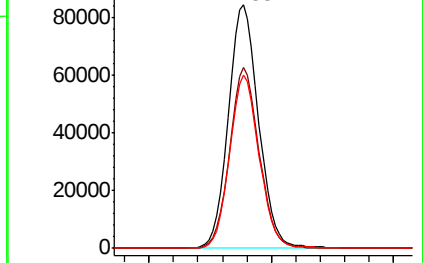
176 69.5 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN062500.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062500.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062500.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

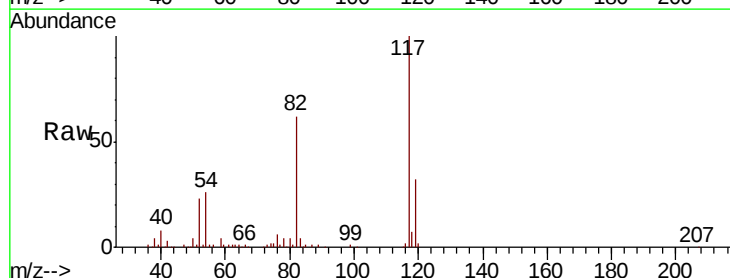
Tgt Ion: 117 Resp: 307005

Ion Ratio Lower Upper

117 100

82 62.2 49.6 74.4

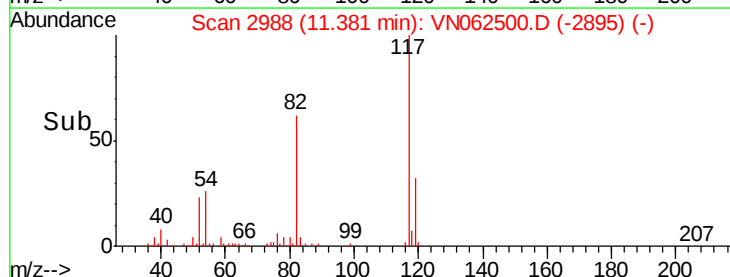
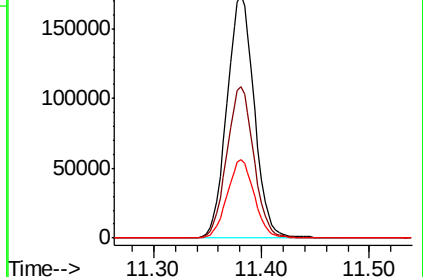
119 32.1 25.4 38.0

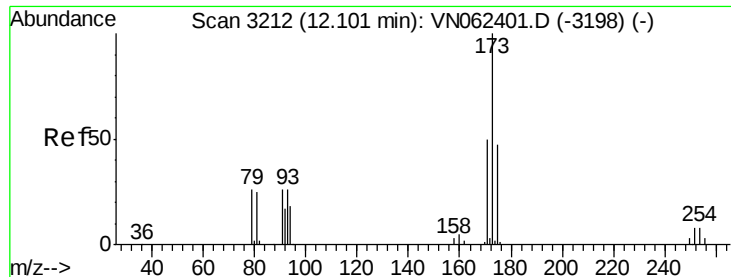


Abundance Ion 116.90 (116.60 to 117.60): VN062500.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062500.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062500.D (-2895) (-)





#71

Bromoform

Concen: 0.500 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

Instrument :

MSVOA\_N

ClientSampleId :

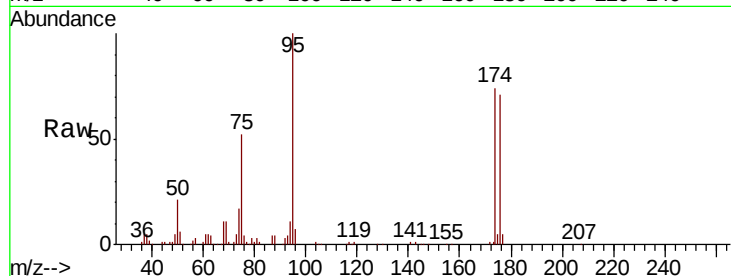
Tot Ion:173 Resp: 806

Ion Ratio Lower Upper

173 100

175 801.9 23.7 71.1#

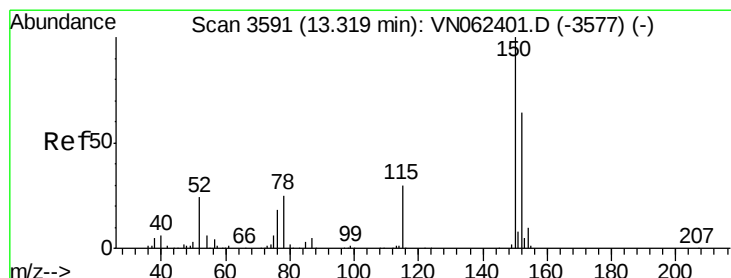
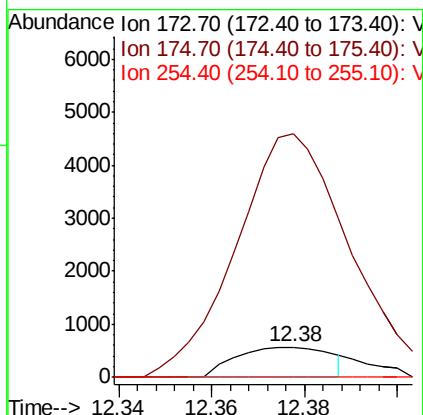
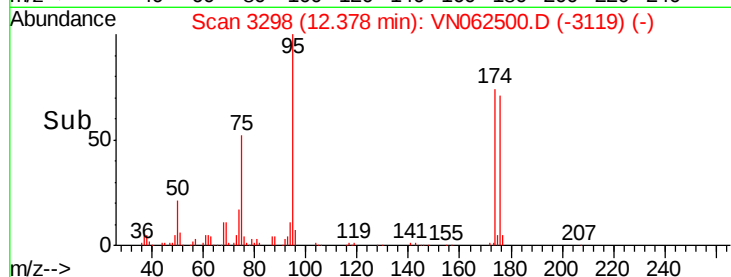
254 0.0 0.0 0.0



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: VN062500.D

Acq: 10 Jul 2020 18:21

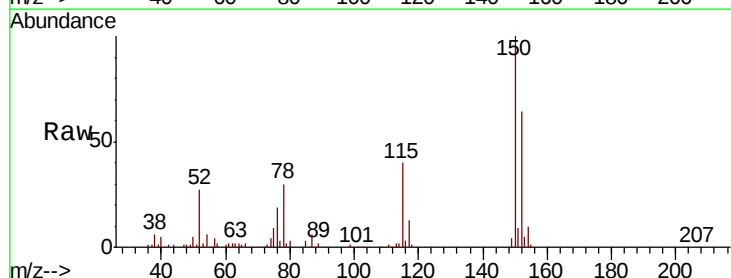
Tgt Ion:152 Resp: 112249

Ion Ratio Lower Upper

152 100

115 62.2 31.4 94.2

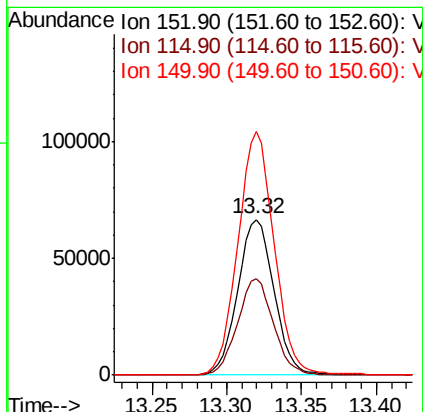
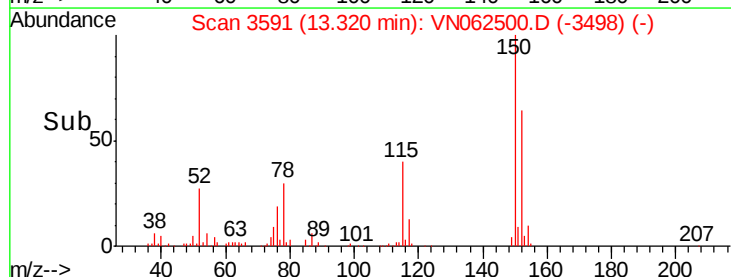
150 157.3 0.0 347.4

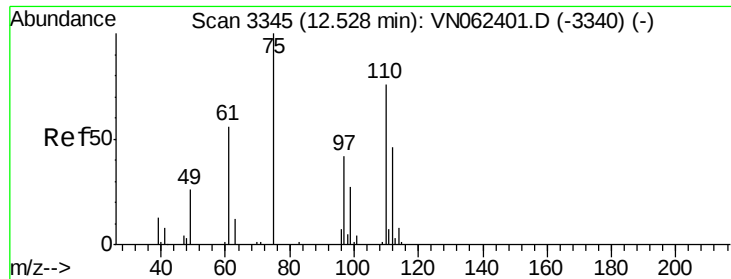


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.844 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

Instrument :

MSVOA\_N

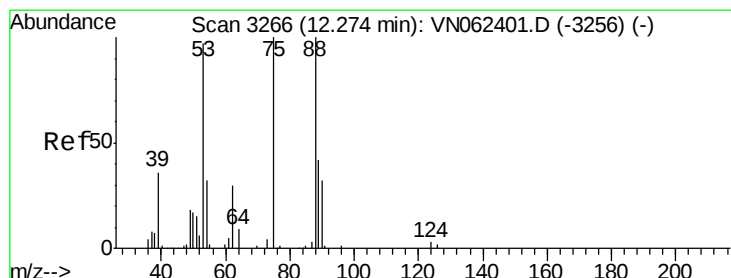
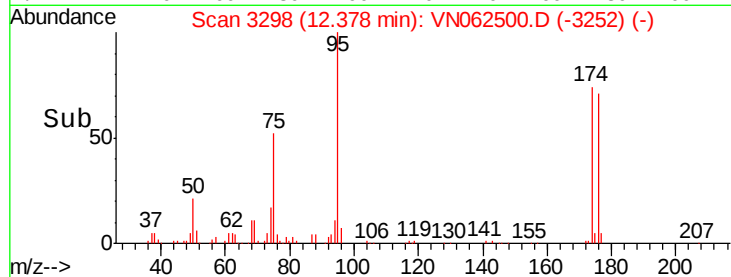
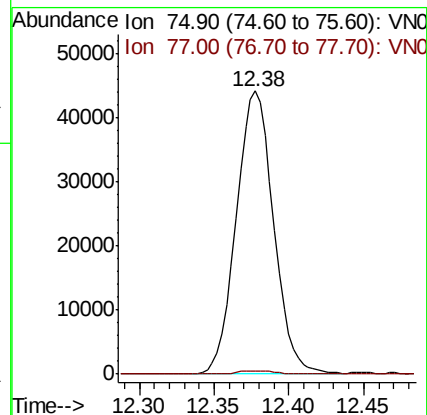
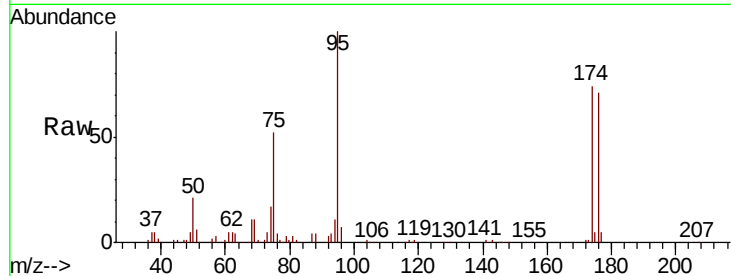
ClientSampleId :

Tot Ion: 75 Resp: 76687

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.526 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062500.D

Acq: 10 Jul 2020 18:21

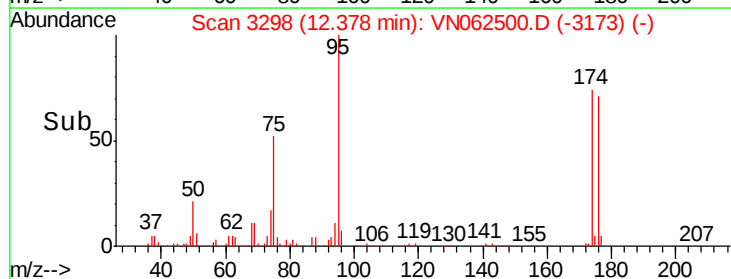
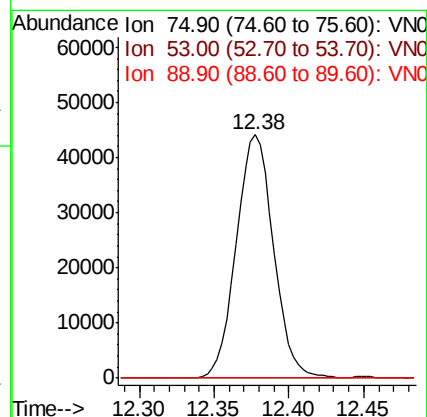
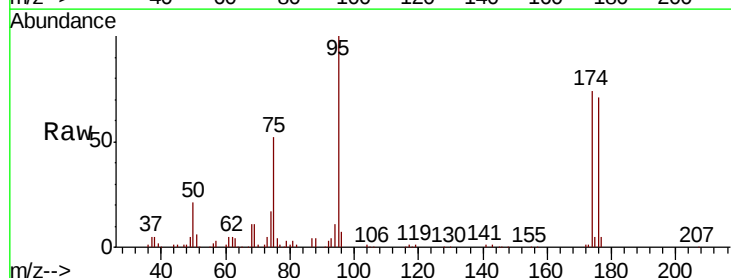
Tgt Ion: 75 Resp: 76687

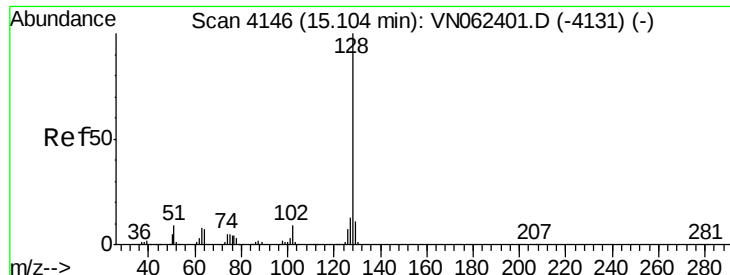
Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

89 0.0 34.6 52.0#

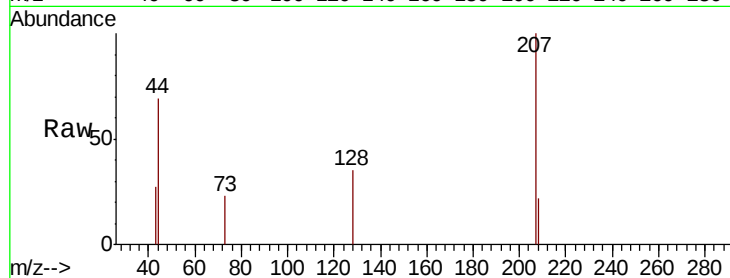




#95  
Naphthalene  
Concen: Below Cal  
RT: 15.12 min Scan# 4150  
Delta R.T. 0.01 min  
Lab File: VN062500.D  
Acq: 10 Jul 2020 18:21

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.2  | 15.2# |
| 129     | 0.0   | 8.6   | 12.8# |



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

