

Data File : VN057780.D  
Acq On : 8 Sep 2019 2:07  
Operator : JC/SP  
Sample : K4601-29  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
T12-E4-(2.7)

Quant Time: Sep 08 06:46:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N090619W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 06 03:46:54 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 192232   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 310946   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 288839   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 147805   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.01   | 65  | 238695   | 51.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.08% |      |
| 35) Dibromofluoromethane  | 7.58   | 113 | 147814   | 52.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.38% |      |
| 50) Toluene-d8            | 10.08  | 98  | 541367   | 51.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.34% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 202966   | 46.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.28%  |      |

#### Target Compounds

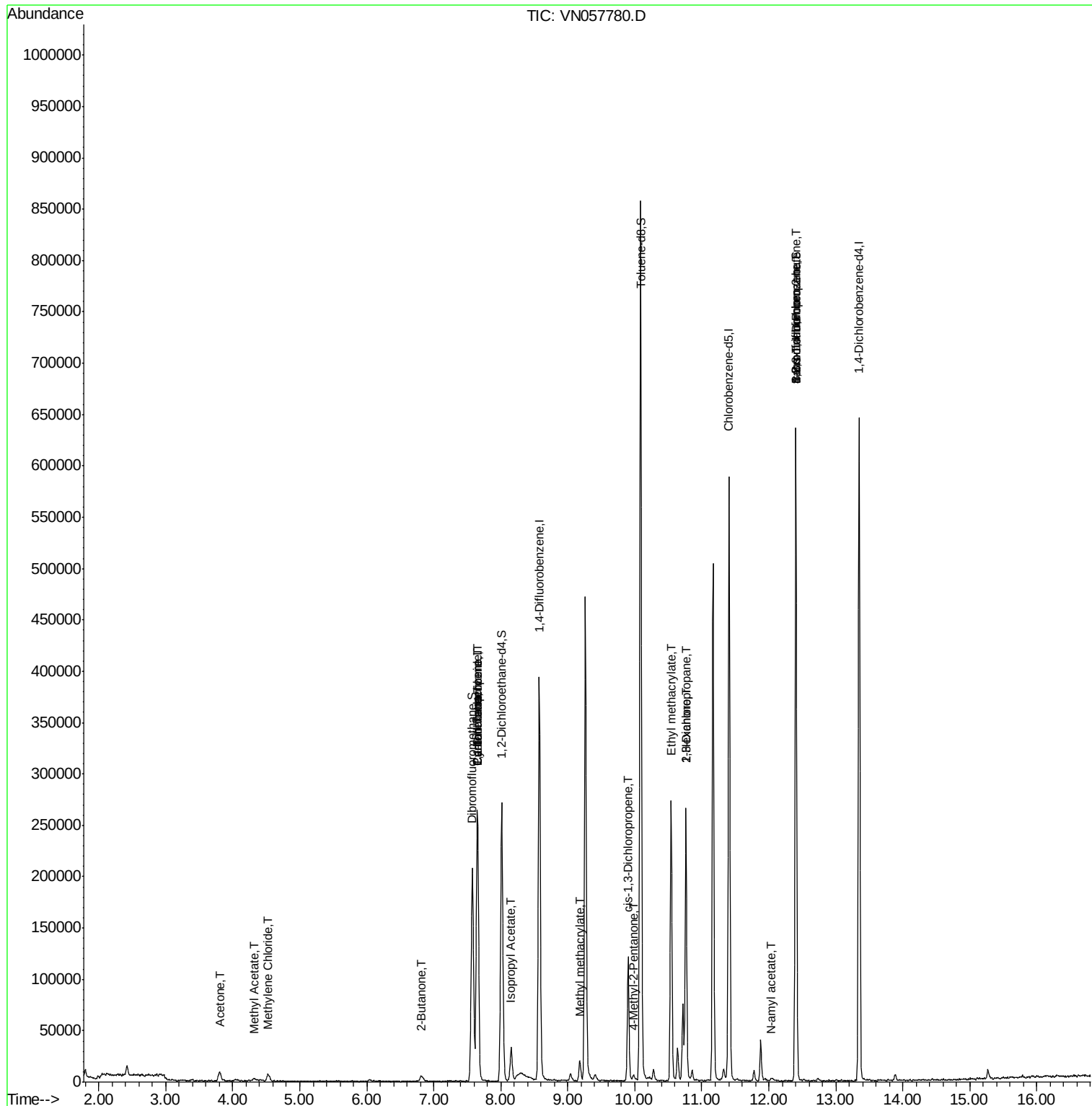
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 3) Chloromethane               | 2.03  | 50  | 434    | Below Cal | #      | 42     |
| 16) Acetone                    | 3.80  | 43  | 15877  | 11.033    | ug/l   | 97     |
| 18) Methyl Acetate             | 4.31  | 43  | 2671   | 0.683     | ug/l # | 79     |
| 20) Methylene Chloride         | 4.53  | 84  | 4073   | 1.309     | ug/l # | 81     |
| 25) 2-Butanone                 | 6.81  | 43  | 899    | 0.436     | ug/l   | 92     |
| 31) Cyclohexane                | 7.65  | 56  | 6170   | 1.176     | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 7.65  | 75  | 19555  | 4.727     | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 7.65  | 117 | 21487  | 5.425     | ug/l # | 14     |
| 43) Isopropyl Acetate          | 8.16  | 43  | 39490  | 5.010     | ug/l   | 99     |
| 48) Methyl methacrylate        | 9.17  | 41  | 3196   | 0.788     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43  | 2628   | 0.600     | ug/l # | 81     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75  | 18176  | 3.759     | ug/l # | 66     |
| 56) Ethyl methacrylate         | 10.54 | 69  | 989    | 0.217     | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.76 | 76  | 2212   | 0.431     | ug/l # | 43     |
| 59) 2-Hexanone                 | 10.76 | 43  | 40578  | 13.145    | ug/l # | 59     |
| 71) Bromoform                  | 12.40 | 173 | 638    | 3.546     | ug/l # | 1      |
| 74) N-amyl acetate             | 12.03 | 43  | 2189   | 0.335     | ug/l # | 52     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 119613 | 35.241    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 119613 | 109.599   | ug/l # | 1      |

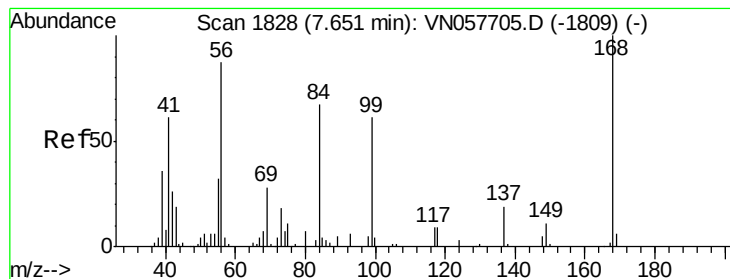
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Sep 06 03:46:54 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

Instrument :

MSVOA\_N

ClientSampleId :

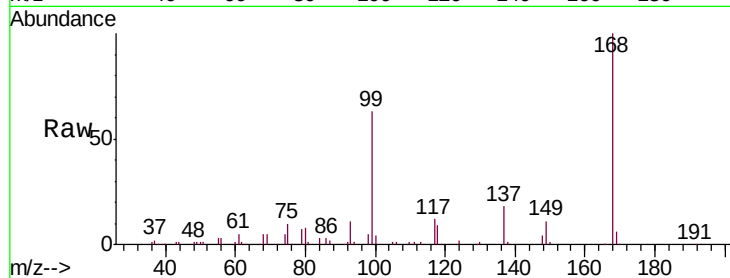
T12-E4-(2.7)

Tgt Ion:168 Resp: 192232

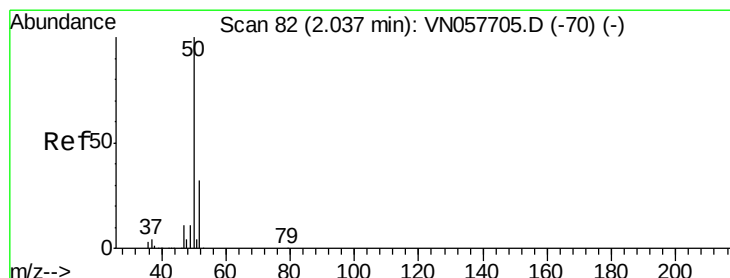
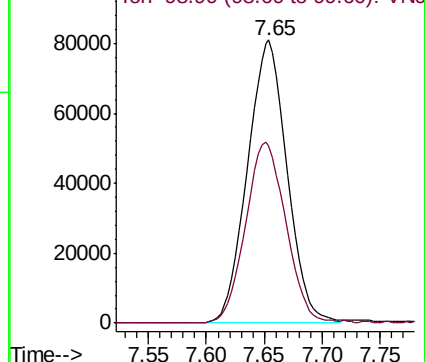
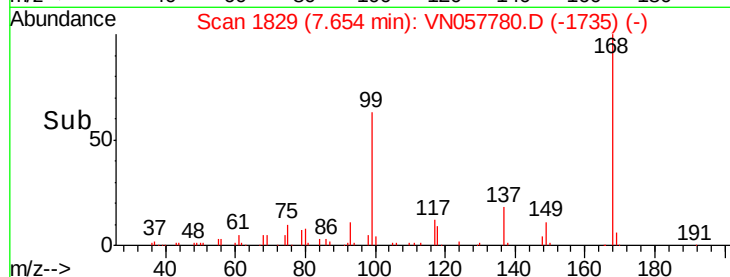
Ion Ratio Lower Upper

168 100

99 62.8 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): VN057780.D (-1735) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057780.D

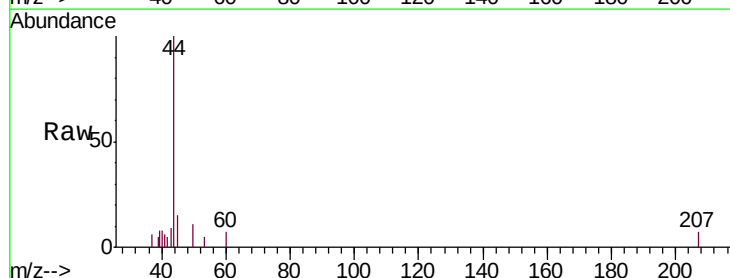
Acq: 8 Sep 2019 2:07

Tgt Ion: 50 Resp: 434

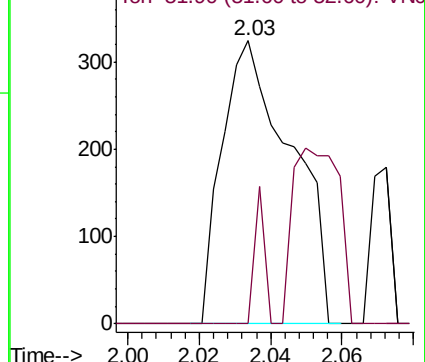
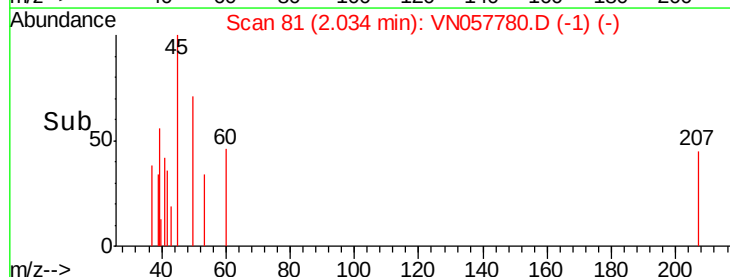
Ion Ratio Lower Upper

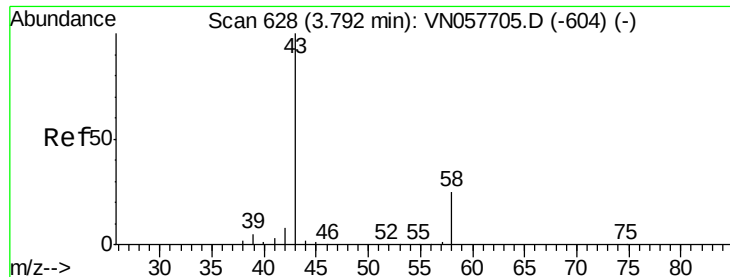
50 100

52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN057780.D (-1) (-)





#16

Acetone

Concen: 11.033 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

Instrument :

MSVOA\_N

ClientSampleId :

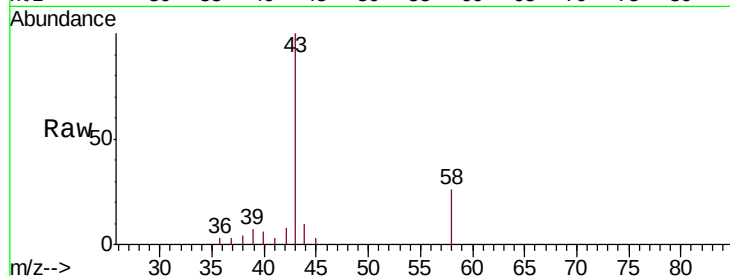
T12-E4-(2.7)

Tgt Ion: 43 Resp: 15877

Ion Ratio Lower Upper

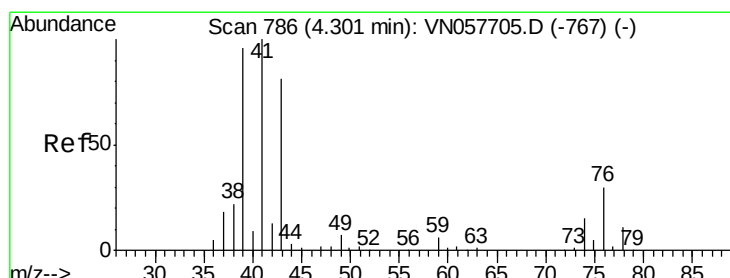
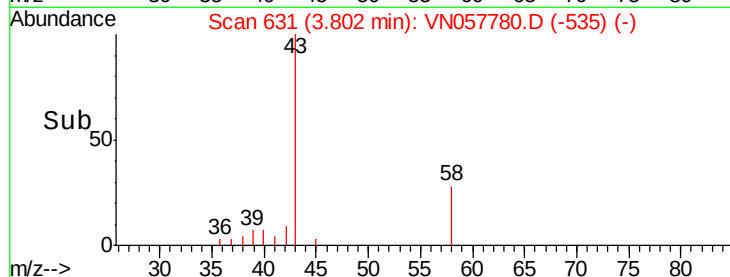
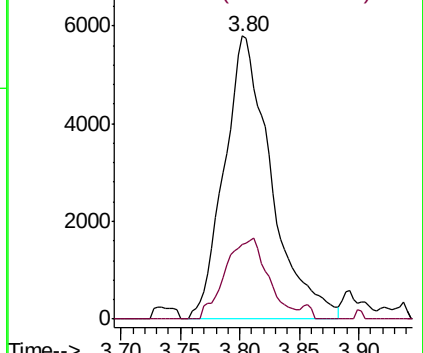
43 100

58 26.5 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.683 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN057780.D

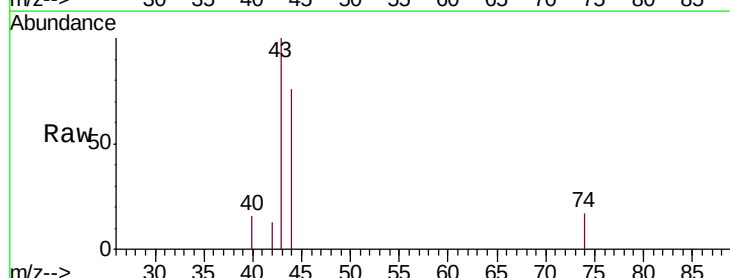
Acq: 8 Sep 2019 2:07

Tgt Ion: 43 Resp: 2671

Ion Ratio Lower Upper

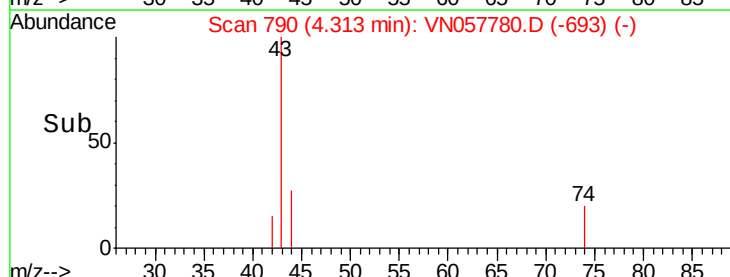
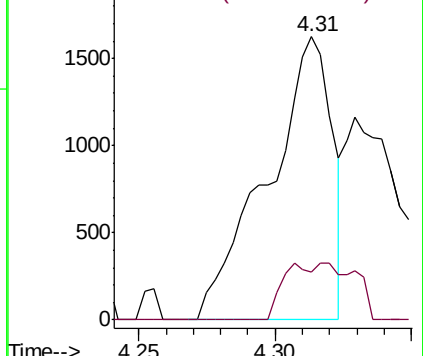
43 100

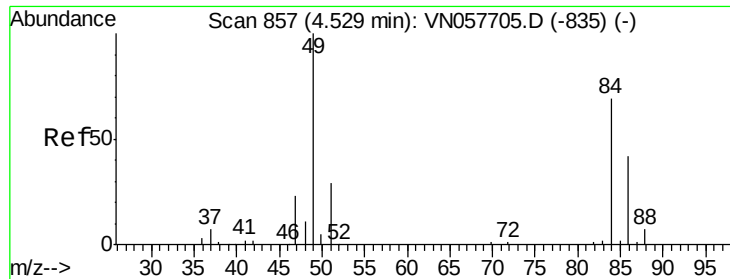
74 9.5 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

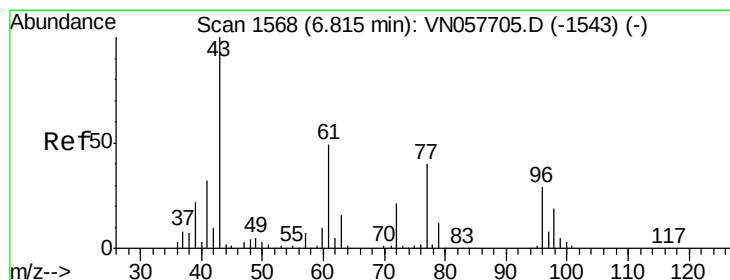
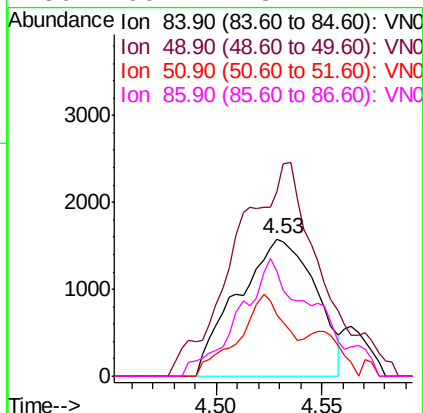
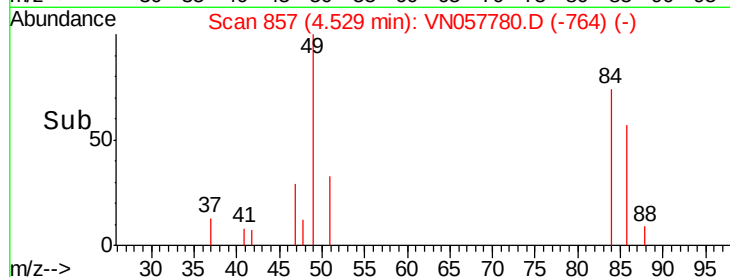
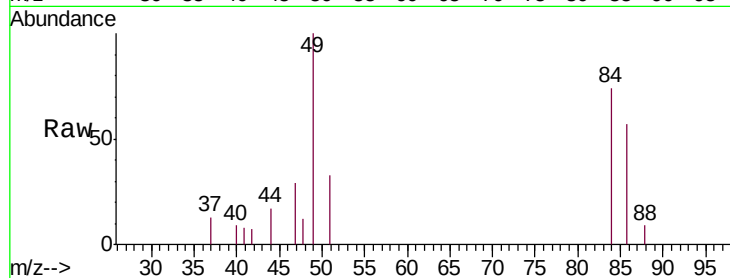




#20  
Methylene Chloride  
Concen: 1.309 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. -0.00 min  
Lab File: VN057780.D  
Acq: 8 Sep 2019 2:07

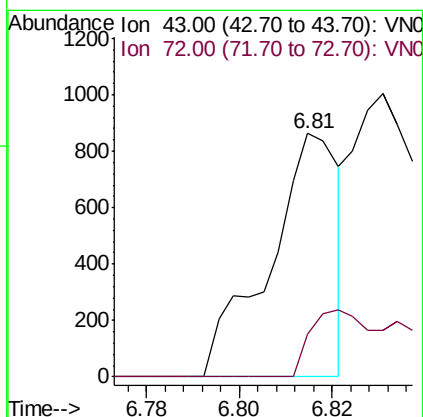
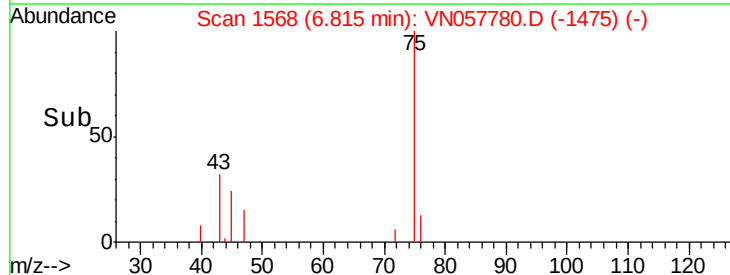
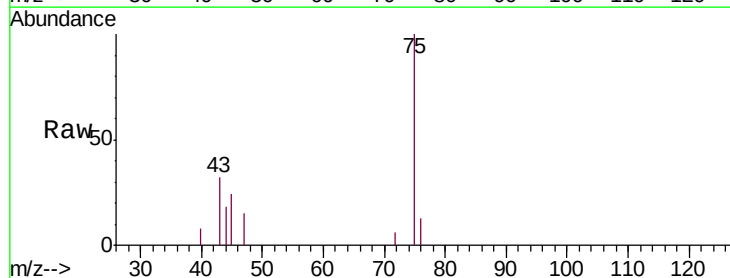
Instrument :  
MSVOA\_N  
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T12-E4-(2.7)

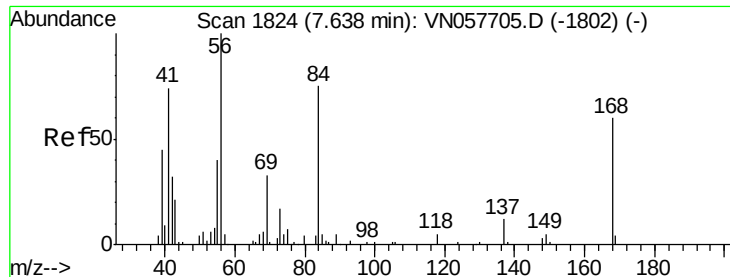
Tgt Ion: 84 Resp: 4073  
Ion Ratio Lower Upper  
84 100  
49 108.6 115.0 172.6#  
51 44.7 33.8 50.8  
86 66.2 48.2 72.2



#25  
2-Butanone  
Concen: 0.436 ug/l  
RT: 6.81 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: VN057780.D  
Acq: 8 Sep 2019 2:07

Tgt Ion: 43 Resp: 899  
Ion Ratio Lower Upper  
43 100  
72 17.4 17.0 25.6

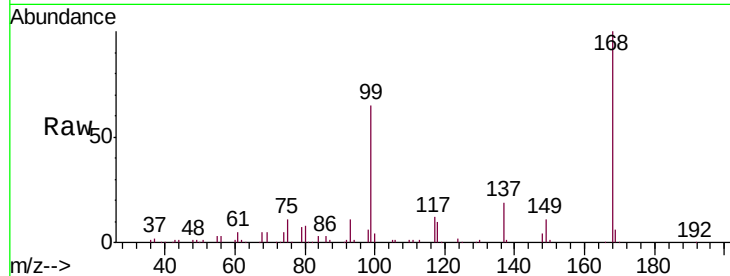




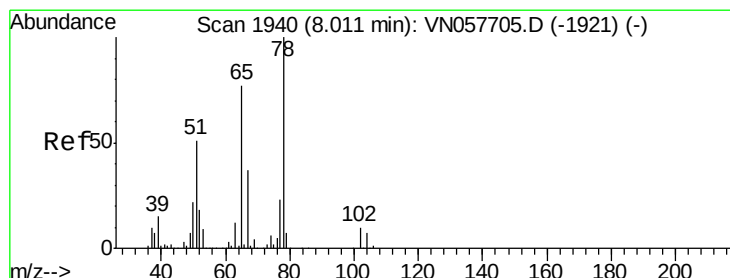
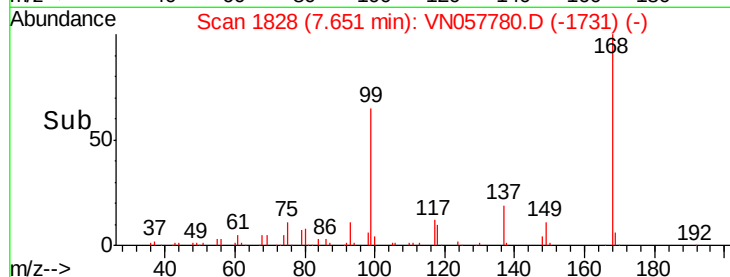
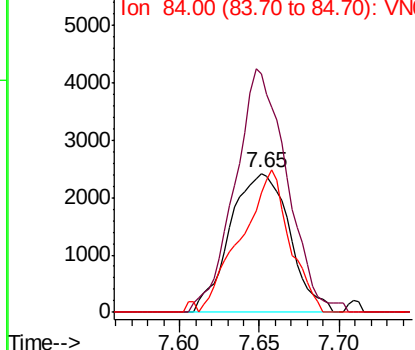
#31  
Cyclohexane  
Concen: 1.176 ug/l  
RT: 7.65 min Scan# 1828  
Delta R.T. 0.01 min  
Lab File: VN057780.D  
Acq: 8 Sep 2019 2:07

Instrument :  
MSVOA\_N  
ClientSampled :  
T12-E4-(2.7)

Tgt Ion: 56 Resp: 6170  
Ion Ratio Lower Upper  
56 100  
69 171.7 26.2 39.2#  
84 86.0 59.8 89.8

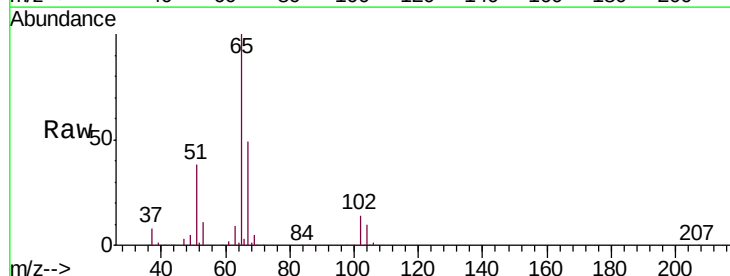


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

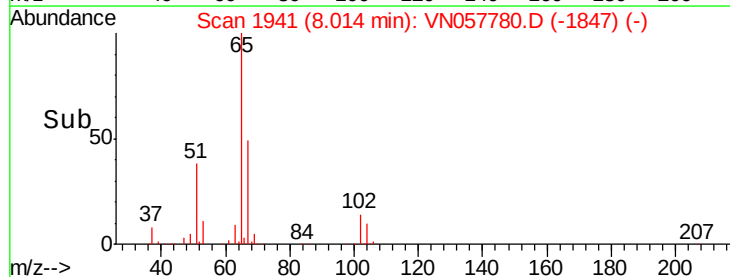
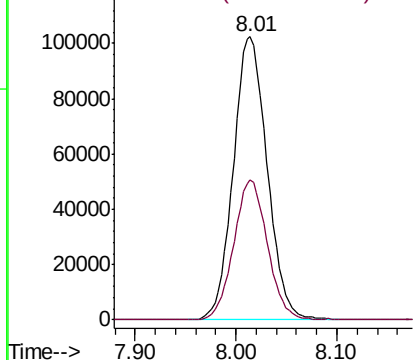


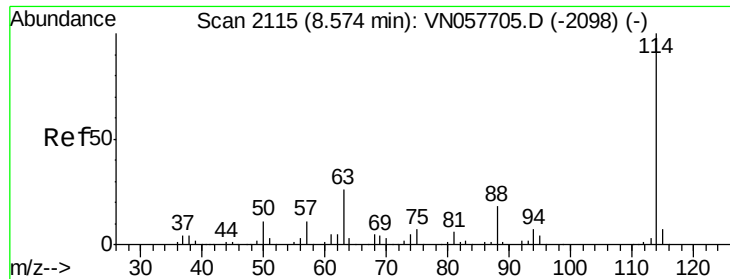
#33  
1,2-Dichloroethane-d4  
Concen: 51.042 ug/l  
RT: 8.01 min Scan# 1941  
Delta R.T. 0.00 min  
Lab File: VN057780.D  
Acq: 8 Sep 2019 2:07

Tgt Ion: 65 Resp: 238695  
Ion Ratio Lower Upper  
65 100  
67 49.1 0.0 98.2



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

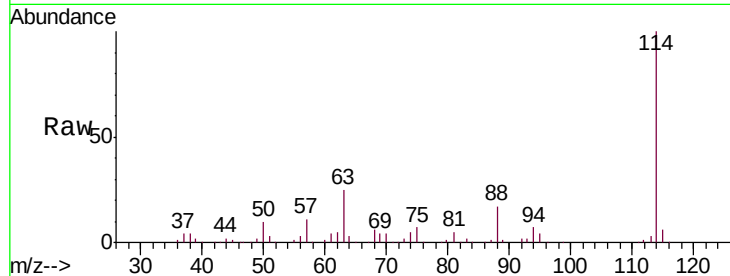




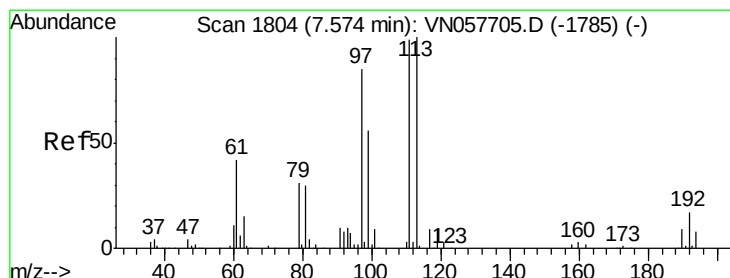
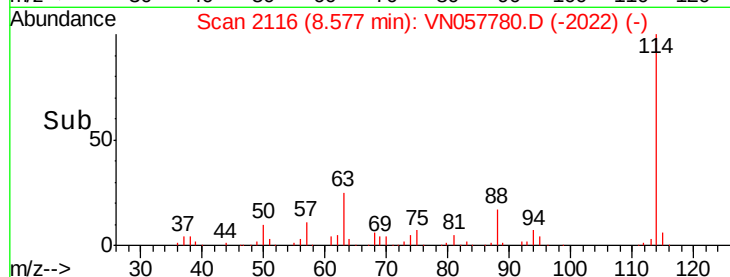
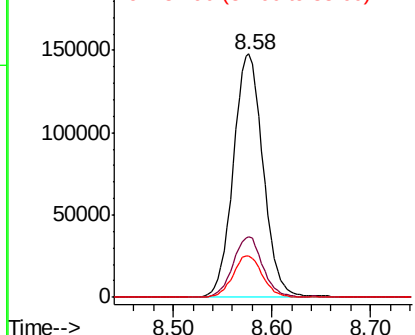
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057780.D  
 Acq: 8 Sep 2019 2:07

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T12-E4-(2.7)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.0  | 0.0   | 52.4  |
| 88      | 16.9  | 0.0   | 35.4  |

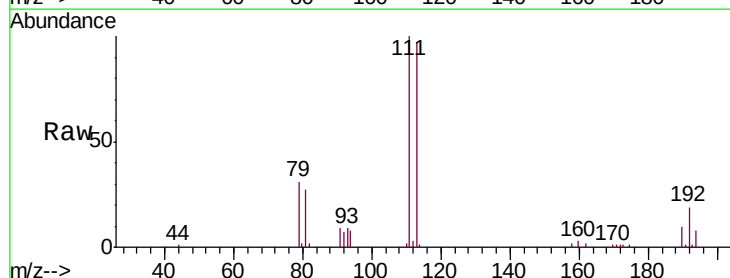


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

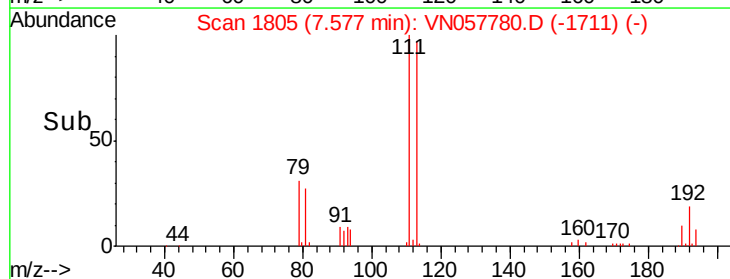
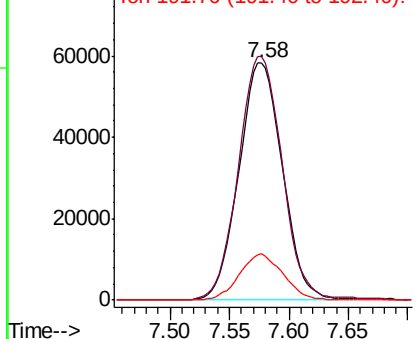


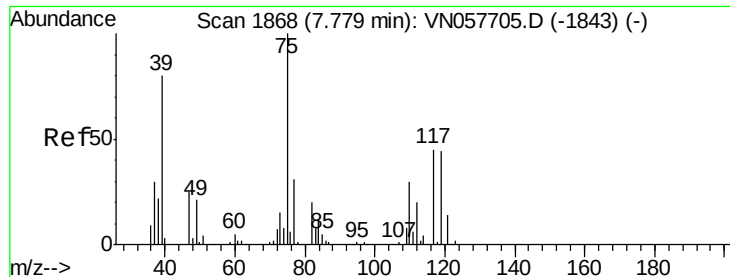
#35  
 Dibromofluoromethane  
 Concen: 52.190 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VN057780.D  
 Acq: 8 Sep 2019 2:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 82.7  | 124.1 |
| 192     | 19.5  | 13.8  | 20.6  |



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

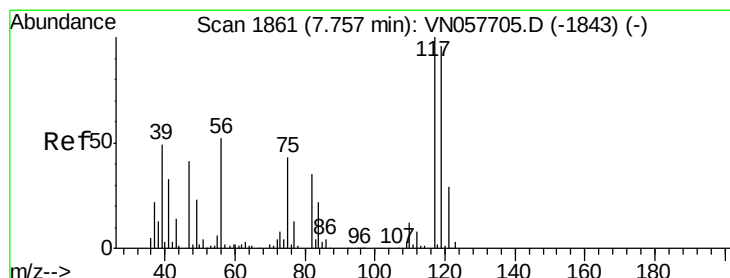
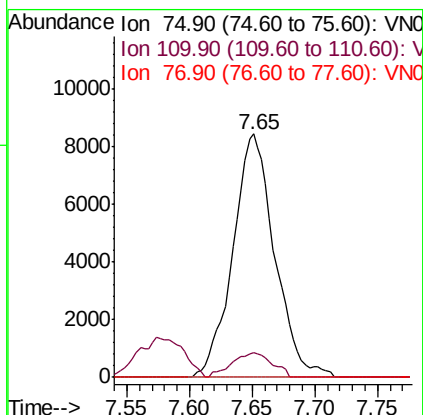
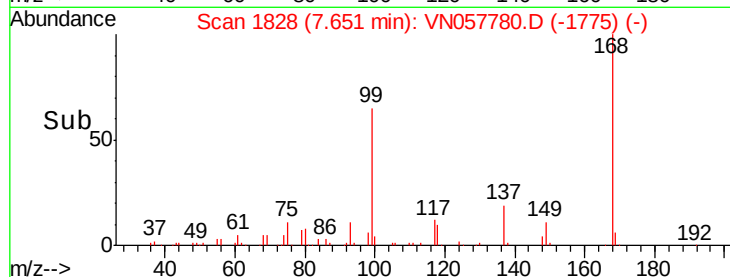
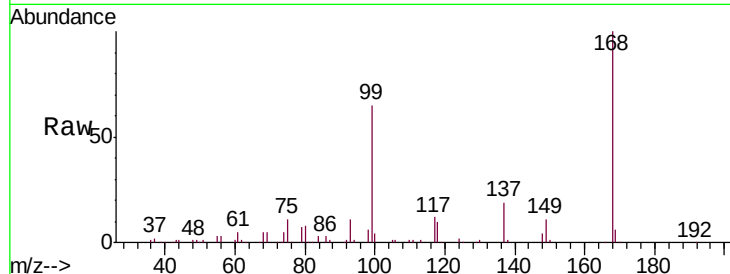




#36  
 1,1-Dichloropropene  
 Concen: 4.727 ug/l  
 RT: 7.65 min Scan# 1828  
 Delta R.T. -0.13 min  
 Lab File: VN057780.D  
 Acq: 8 Sep 2019 2:07

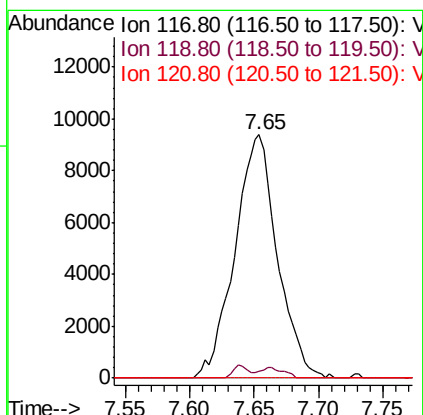
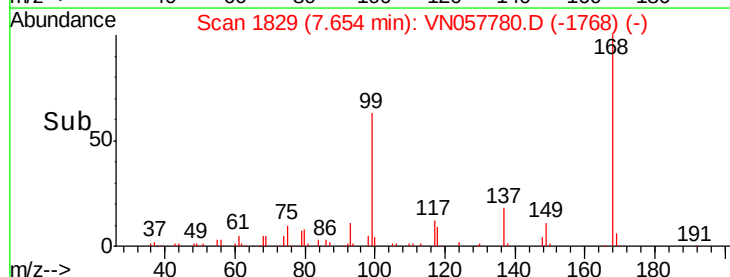
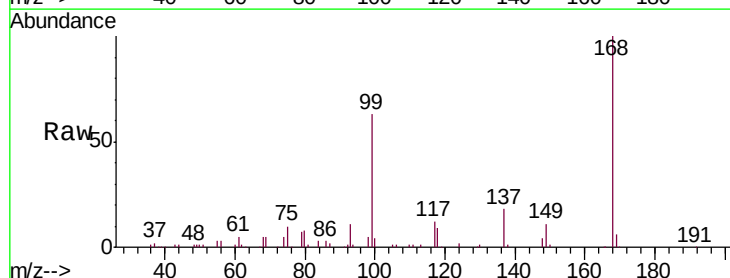
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 T12-E4-(2.7)

Tgt Ion: 75 Resp: 19555  
 Ion Ratio Lower Upper  
 75 100  
 110 9.7 15.0 45.0#  
 77 0.0 24.6 37.0#

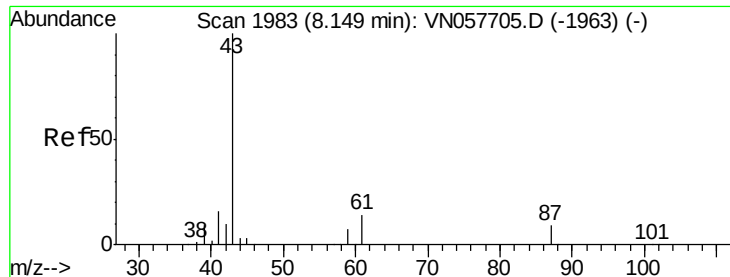


#38  
 Carbon Tetrachloride  
 Concen: 5.425 ug/l  
 RT: 7.65 min Scan# 1829  
 Delta R.T. -0.10 min  
 Lab File: VN057780.D  
 Acq: 8 Sep 2019 2:07

Tgt Ion: 117 Resp: 21487  
 Ion Ratio Lower Upper  
 117 100  
 119 2.6 76.1 114.1#  
 121 0.0 23.4 35.2#







#43

Isopropyl Acetate

Concen: 5.010 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

Instrument :

MSVOA\_N

ClientSampled :

T12-E4-(2.7)

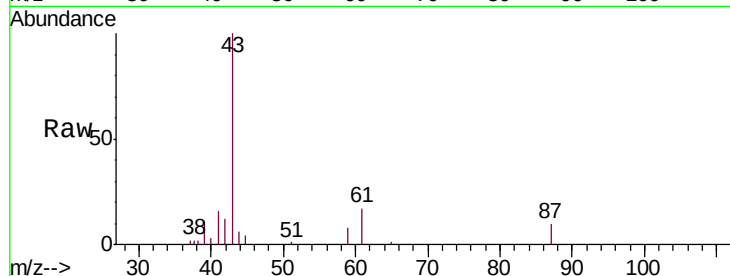
Tgt Ion: 43 Resp: 39490

Ion Ratio Lower Upper

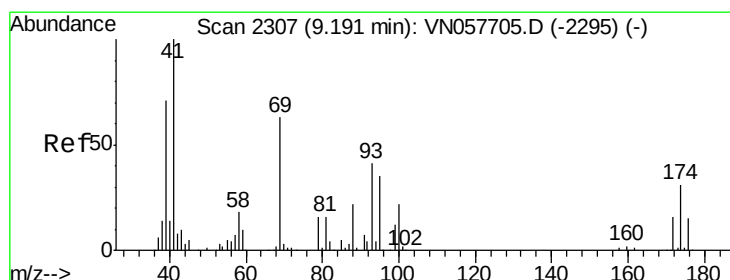
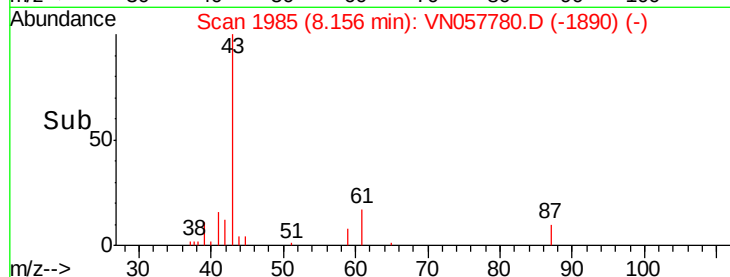
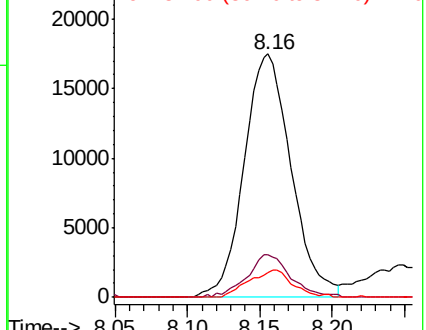
43 100

61 16.4 12.8 19.2

87 10.5 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 61.00 (60.70 to 61.70): VNO  
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 0.788 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

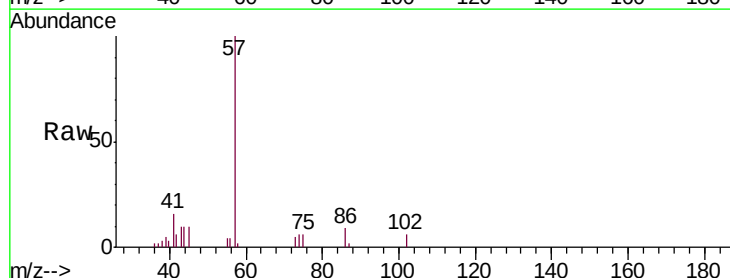
Tgt Ion: 41 Resp: 3196

Ion Ratio Lower Upper

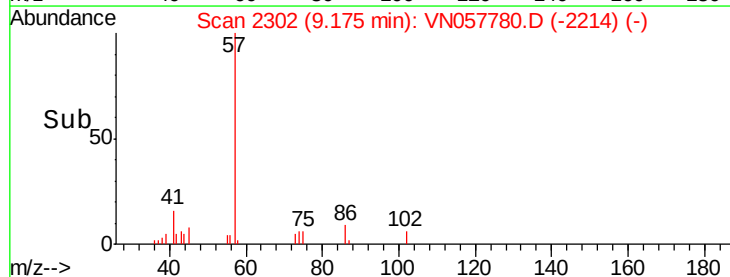
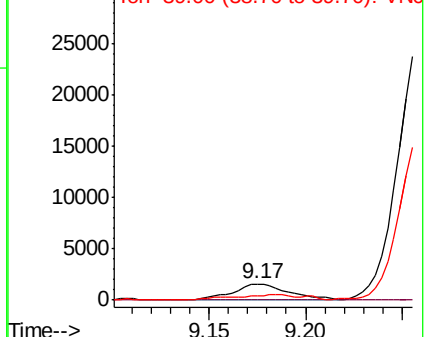
41 100

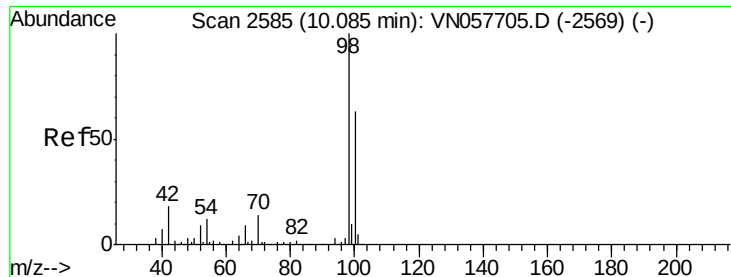
69 0.0 51.2 76.8#

39 0.0 57.3 85.9#



Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 51.671 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

Instrument :

MSVOA\_N

ClientSampleId :

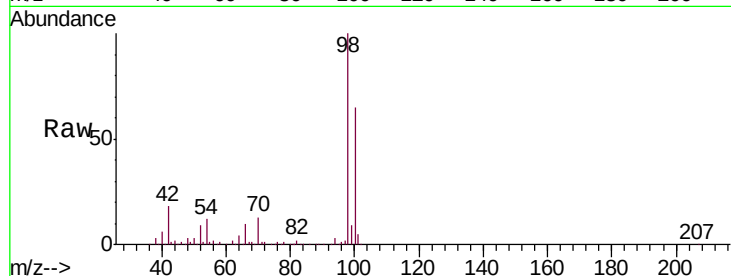
T12-E4-(2.7)

Tgt Ion: 98 Resp: 541367

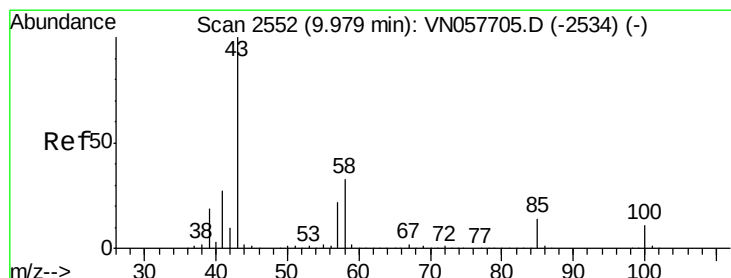
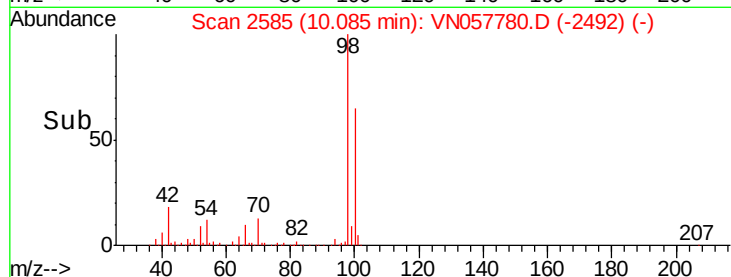
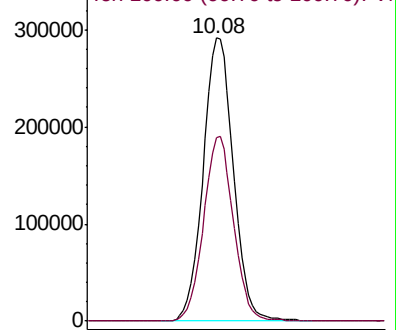
Ion Ratio Lower Upper

98 100

100 64.7 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057780.D (-2492) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.600 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057780.D

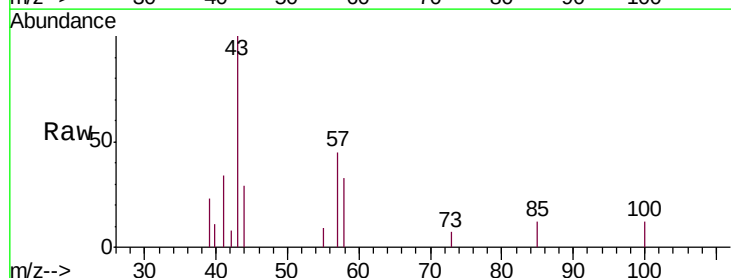
Acq: 8 Sep 2019 2:07

Tgt Ion: 43 Resp: 2628

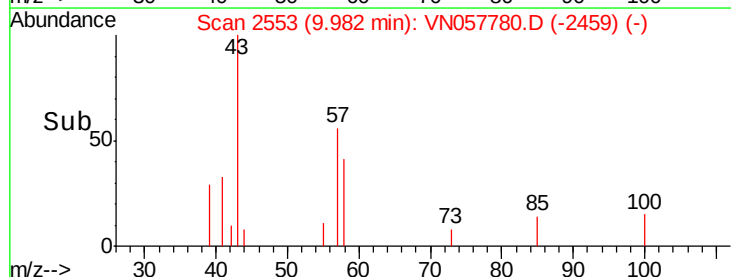
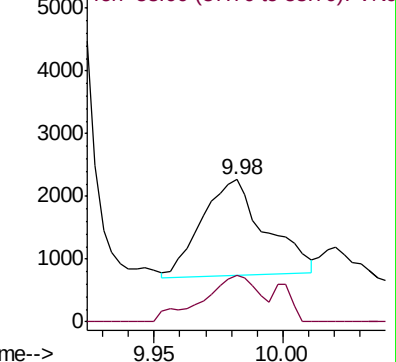
Ion Ratio Lower Upper

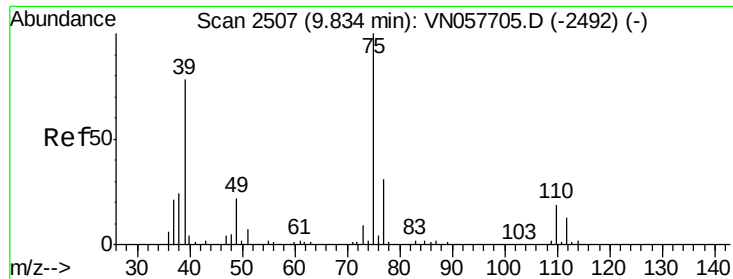
43 100

58 42.8 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057780.D (-2459) (-)



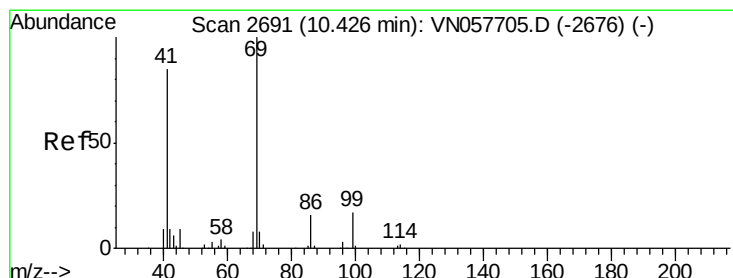
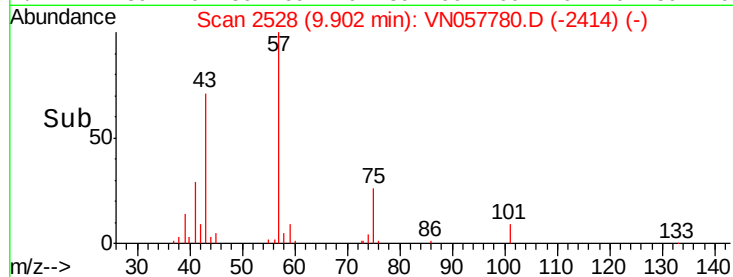
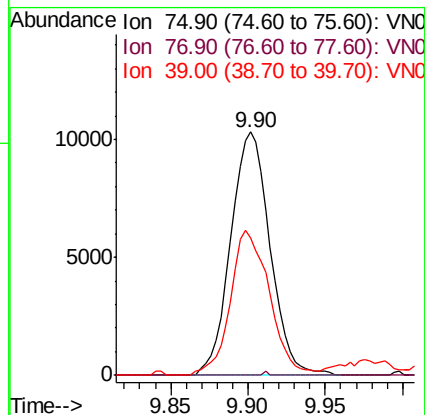
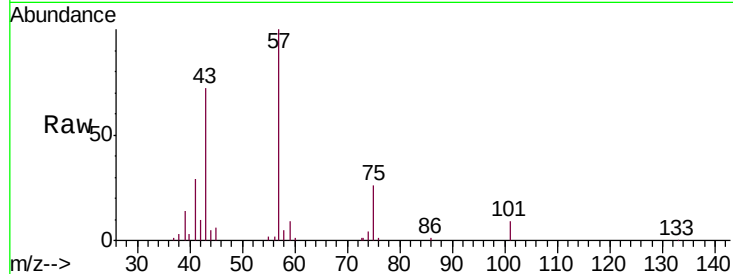


#54

cis-1,3-Dichloropropene  
 Concen: 3.759 ug/l  
 RT: 9.90 min Scan# 2528  
 Delta R.T. 0.07 min  
 Lab File: VN057780.D  
 Acq: 8 Sep 2019 2:07

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 T12-E4-(2.7)

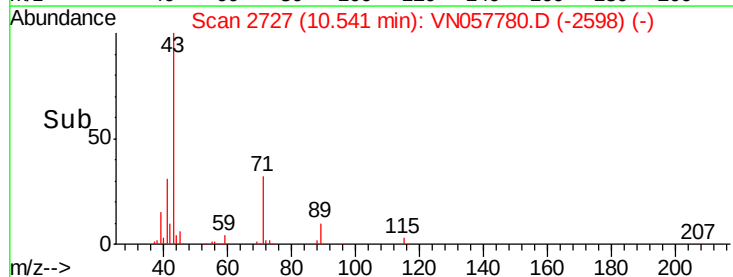
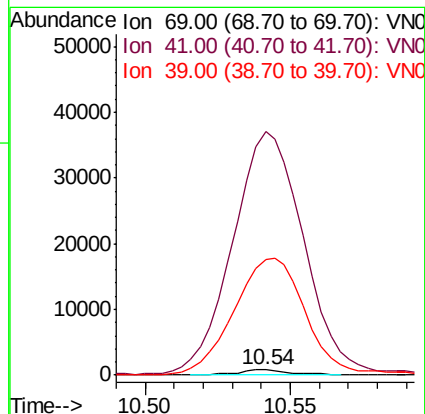
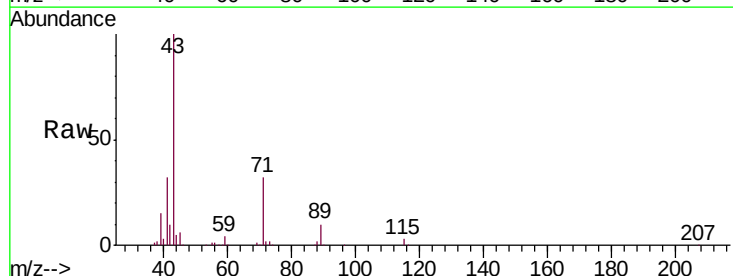
Tgt Ion: 75 Resp: 18176  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.1 37.7#  
 39 56.2 62.4 93.6#

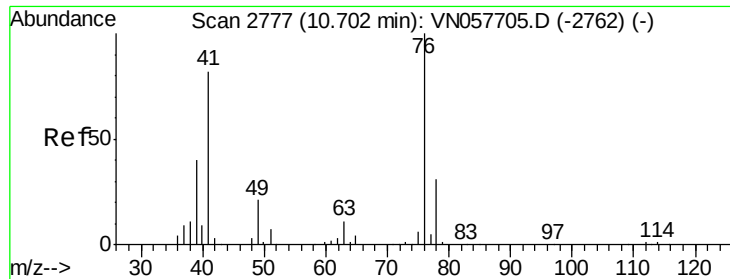


#56

Ethyl methacrylate  
 Concen: 0.217 ug/l  
 RT: 10.54 min Scan# 2727  
 Delta R.T. 0.12 min  
 Lab File: VN057780.D  
 Acq: 8 Sep 2019 2:07

Tgt Ion: 69 Resp: 989  
 Ion Ratio Lower Upper  
 69 100  
 41 6443.2 69.0 103.4#  
 39 3105.7 49.2 73.8#





#57

1,3-Dichloropropane

Concen: 0.431 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

Instrument :

MSVOA\_N

ClientSampled :

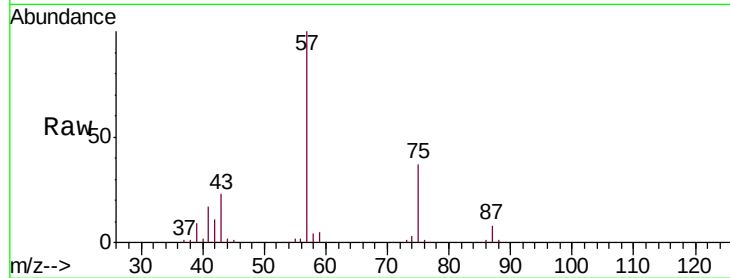
T12-E4-(2.7)

Tgt Ion: 76 Resp: 2212

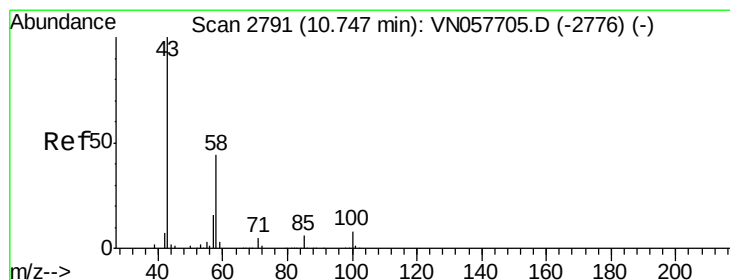
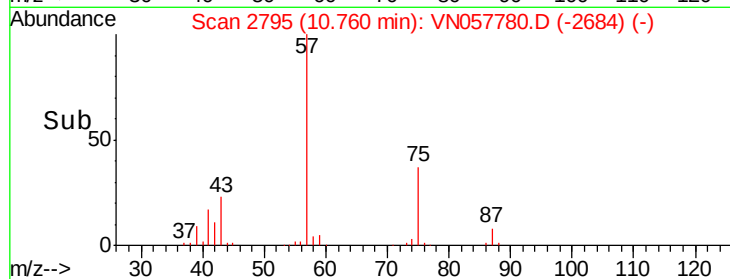
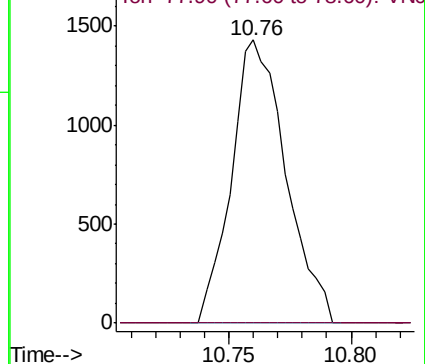
Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN057780.D (-2684) (-)



#59

2-Hexanone

Concen: 13.145 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.02 min

Lab File: VN057780.D

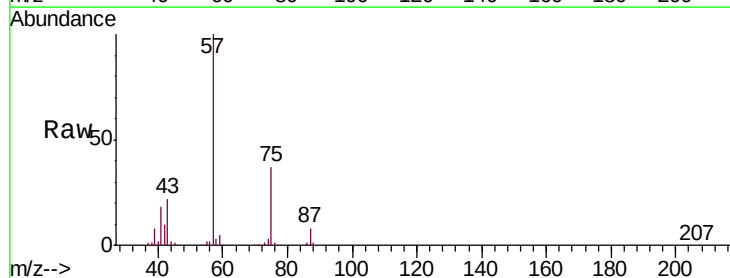
Acq: 8 Sep 2019 2:07

Tgt Ion: 43 Resp: 40578

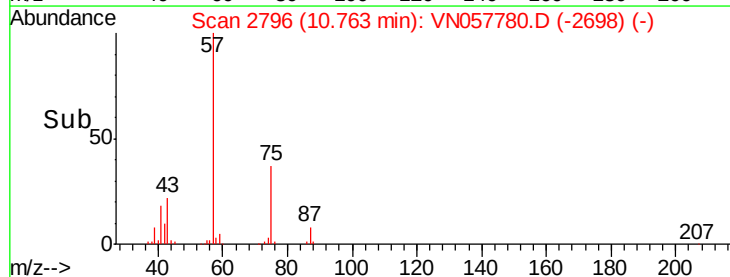
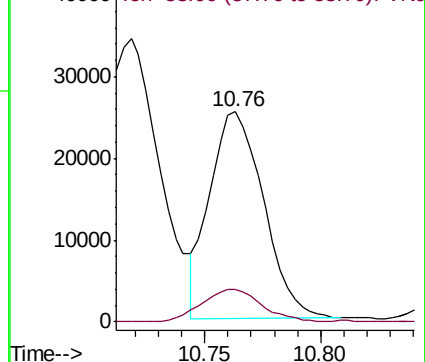
Ion Ratio Lower Upper

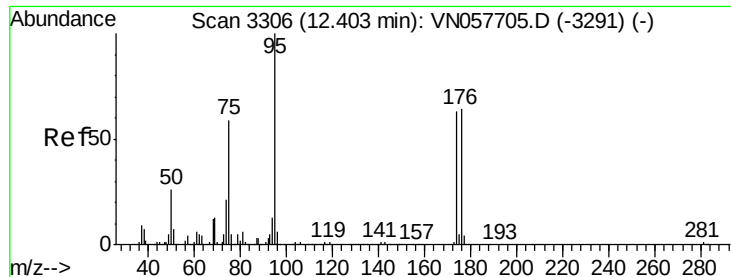
43 100

58 17.7 22.1 66.5#



Abundance Ion 43.00 (42.70 to 43.70): VN057780.D (-2698) (-)

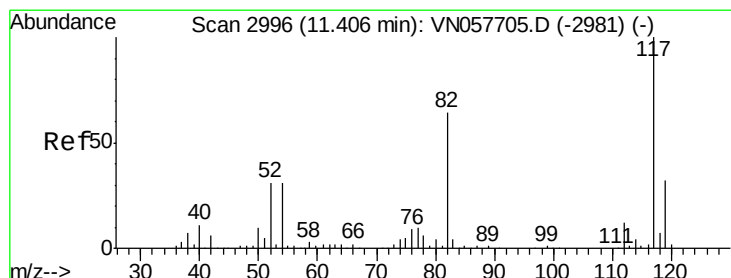
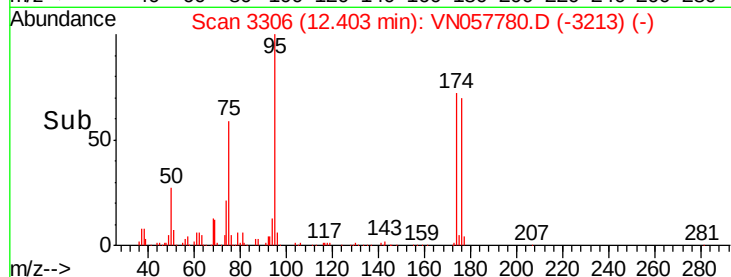
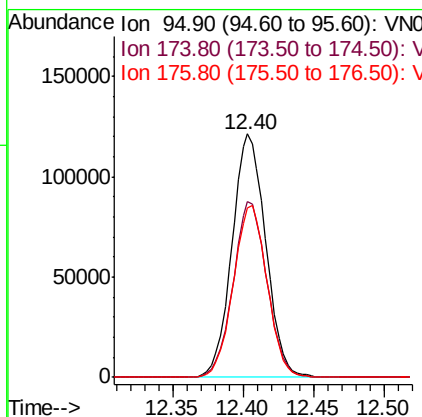
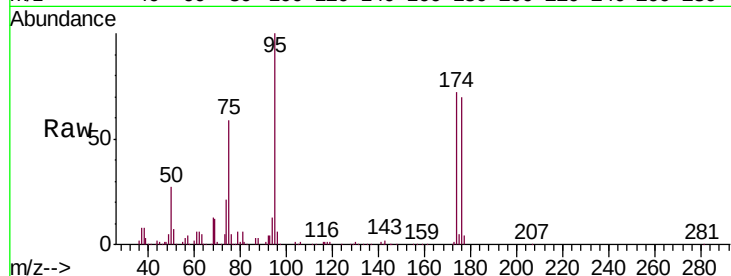




#62  
4-Bromofluorobenzene  
Concen: 46.640 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. -0.00 min  
Lab File: VN057780.D  
Acq: 8 Sep 2019 2:07

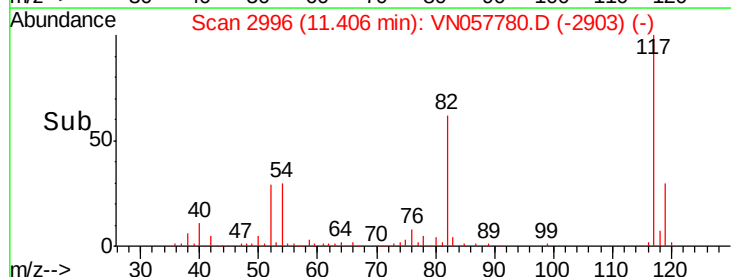
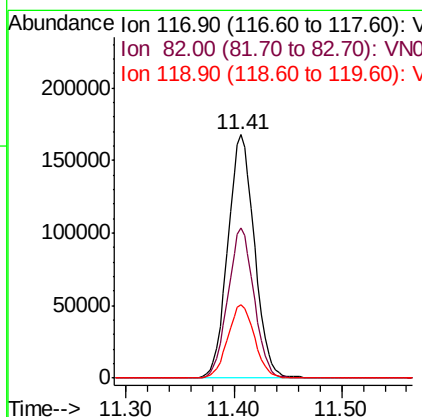
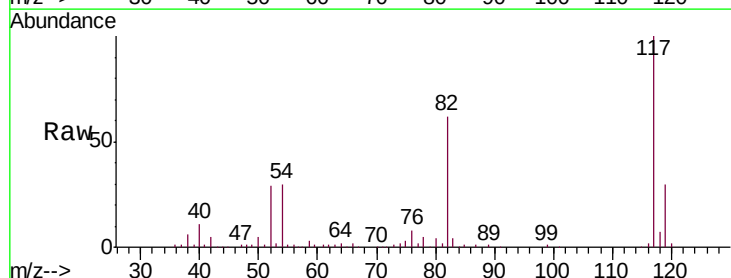
Instrument :  
MSVOA\_N  
ClientSampleId :  
T12-E4-(2.7)

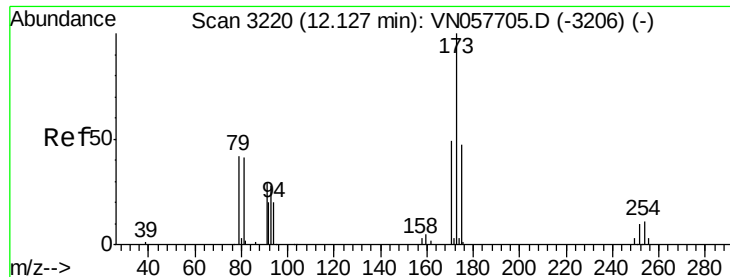
| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 95      | 202966 |       |       |
| 174     | 72.4   | 0.0   | 128.0 |
| 176     | 70.8   | 0.0   | 128.0 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN057780.D  
Acq: 8 Sep 2019 2:07

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 117     | 288839 |       |       |
| 82      | 61.9   | 51.4  | 77.0  |
| 119     | 30.1   | 25.4  | 38.2  |





#71

Bromoform

Concen: 3.546 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

Instrument :

MSVOA\_N

ClientSampled :

T12-E4-(2.7)

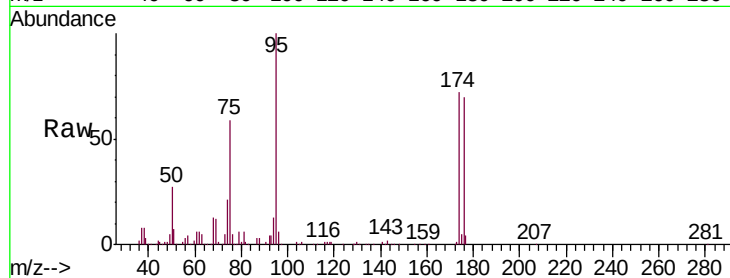
Tgt Ion:173 Resp: 638

Ion Ratio Lower Upper

173 100

175 1410.8 24.6 73.8#

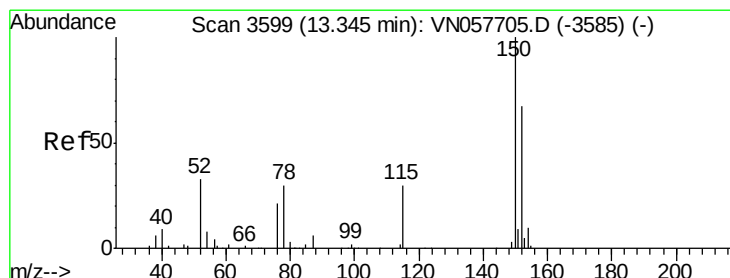
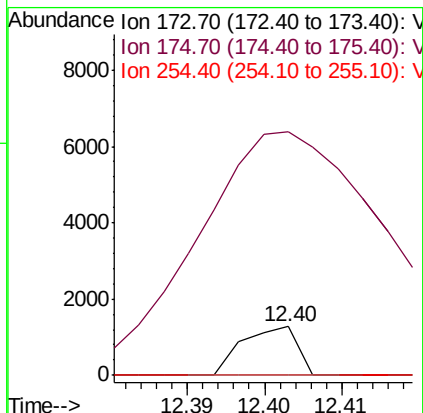
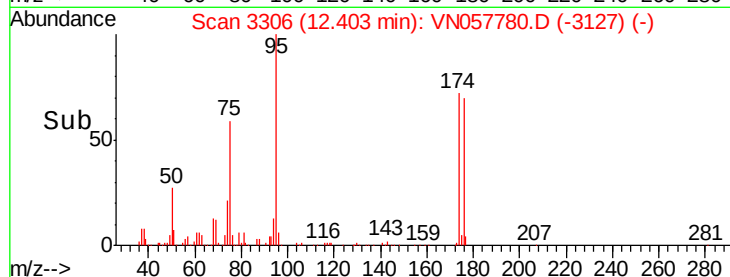
254 0.0 0.0 0.0



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

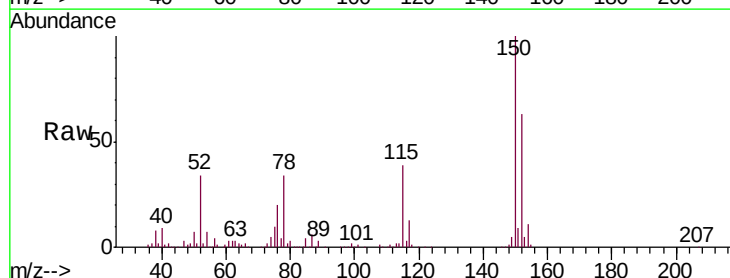
Tgt Ion:152 Resp: 147805

Ion Ratio Lower Upper

152 100

115 62.2 33.8 101.3

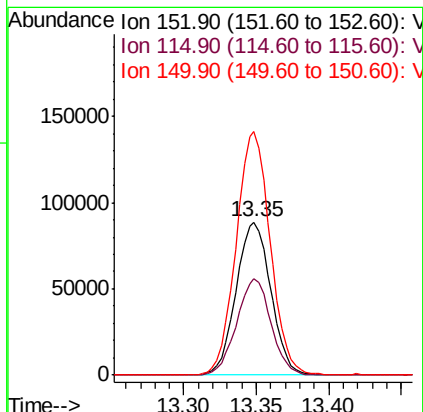
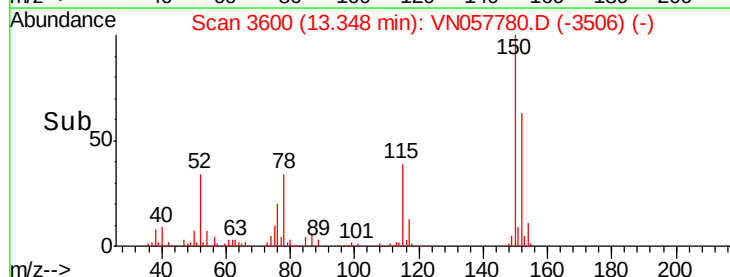
150 156.0 0.0 345.4

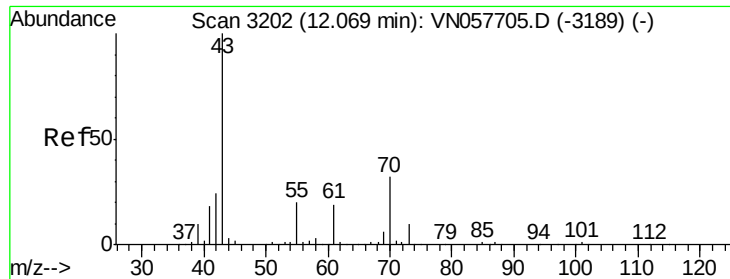


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.335 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057780.D

Acq: 8 Sep 2019 2:07

Instrument :

MSVOA\_N

ClientSampled :

T12-E4-(2.7)

Tgt Ion: 43 Resp: 2189

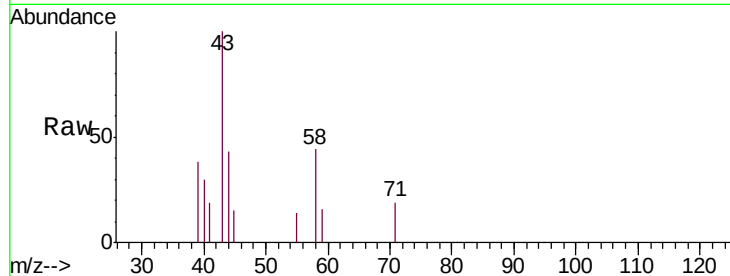
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 2.7 16.3 24.5#

61 0.0 15.0 22.4#

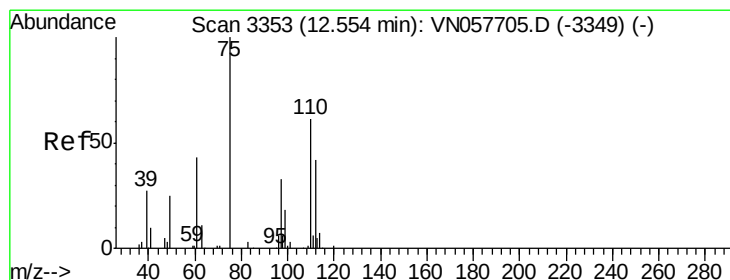
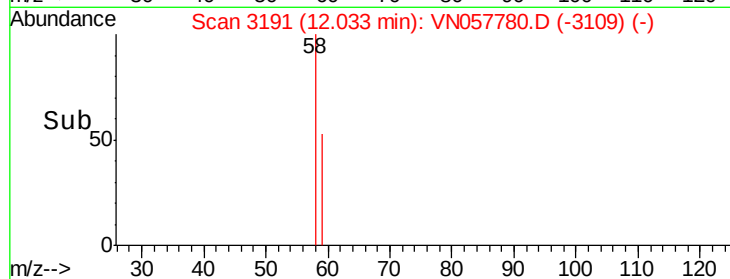
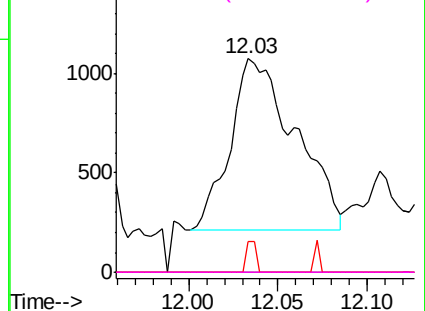


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 35.241 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057780.D

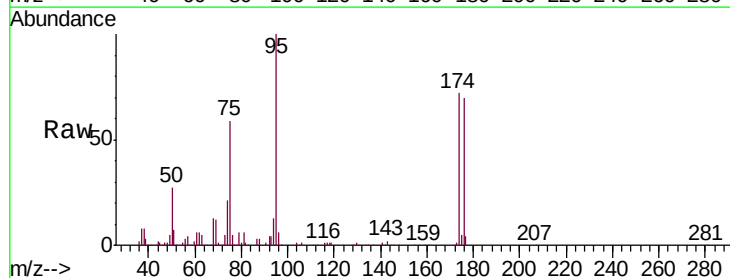
Acq: 8 Sep 2019 2:07

Tgt Ion: 75 Resp: 119613

Ion Ratio Lower Upper

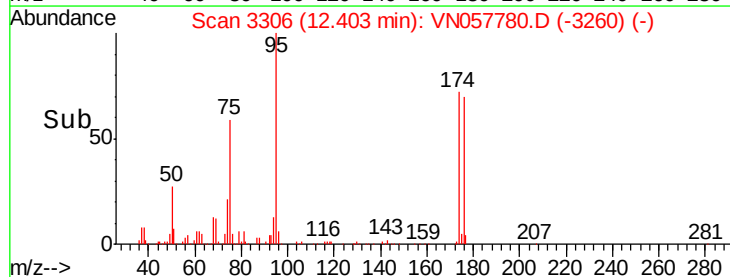
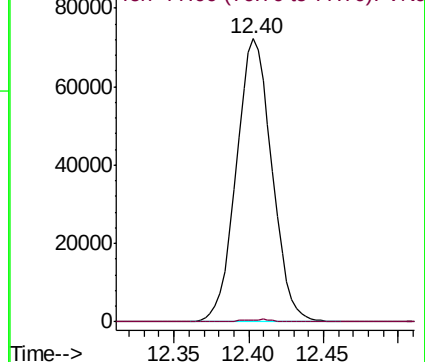
75 100

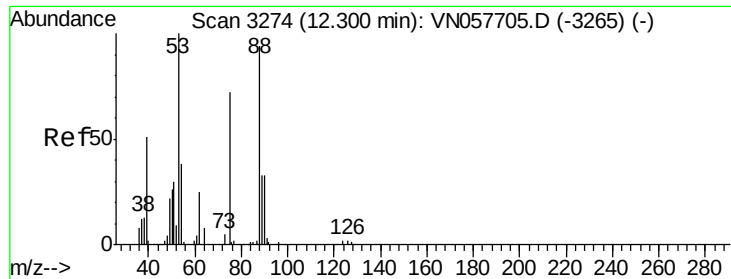
77 0.8 0.0 0.0#



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: 109.599 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.10 min  
 Lab File: VN057780.D  
 Acq: 8 Sep 2019 2:07

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T12-E4-(2.7)

Tgt Ion: 75 Resp: 119613  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 107.0 160.6#  
 89 0.0 36.5 54.7#

