

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN110419\  
 Data File : VN059078.D  
 Acq On : 4 Nov 2019 11:56  
 Operator : JC/SP  
 Sample : K5615-10  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 3465

Quant Time: Nov 05 01:18:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 05:43:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 421208   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 658592   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 577783   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 202686   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 279081   | 50.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.06% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 205493   | 48.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.74%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 803325   | 48.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.12%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 251159   | 42.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.48%  |          |

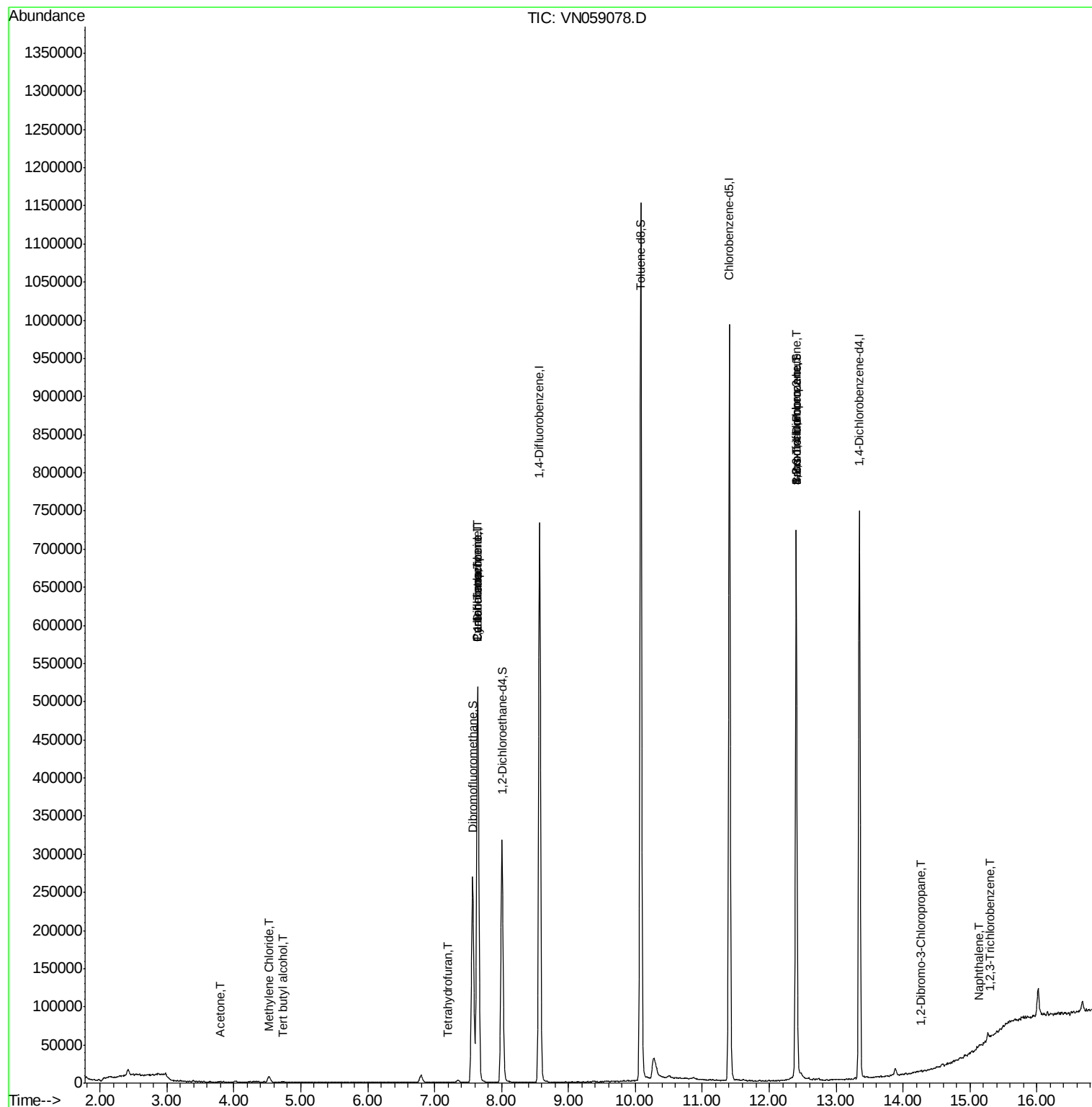
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.73  | 59   | 631      | 0.611  | ug/l # | 72     |
| 16) Acetone                    | 3.79  | 43   | 663      | 0.235  | ug/l # | 43     |
| 20) Methylene Chloride         | 4.53  | 84   | 5586     | 1.130  | ug/l   | 97     |
| 29) Tetrahydrofuran            | 7.19  | 42   | 680      | 0.287  | ug/l # | 39     |
| 31) Cyclohexane                | 7.65  | 56   | 8899     | 1.036  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 33132    | 5.062  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 40828    | 6.400  | ug/l # | 16     |
| 71) Bromoform                  | 12.40 | 173  | 1507     | 0.446  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 127479   | 26.578 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 127479   | 68.133 | ug/l # | 14     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 259      | 0.226  | ug/l # | 4      |
| 95) Naphthalene                | 15.13 | 128  | 2028     | 3.158  | ug/l # | 93     |
| 96) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 789      | 0.218  | ug/l   | 66     |

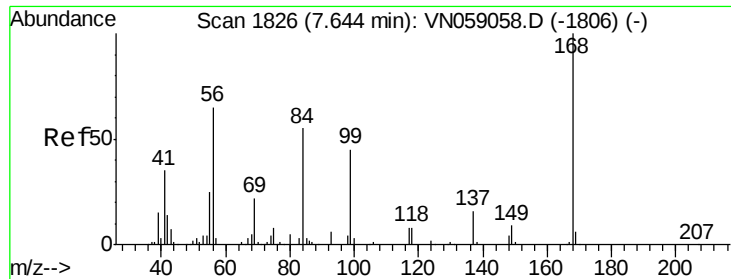
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN110419\  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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3465

Quant Time: Nov 05 01:18:26 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N110119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 02 05:43:23 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

Instrument :

MSVOA\_N

ClientSampled :

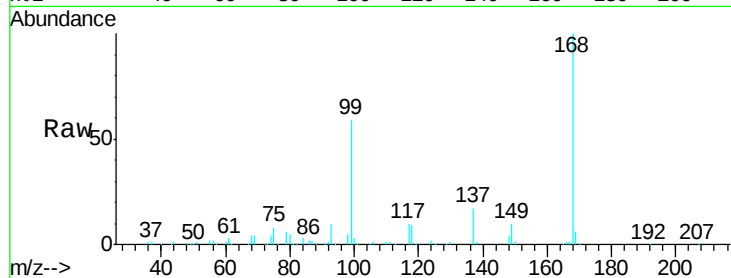
3465

Tgt Ion:168 Resp: 421208

Ion Ratio Lower Upper

168 100

99 59.0 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

200000

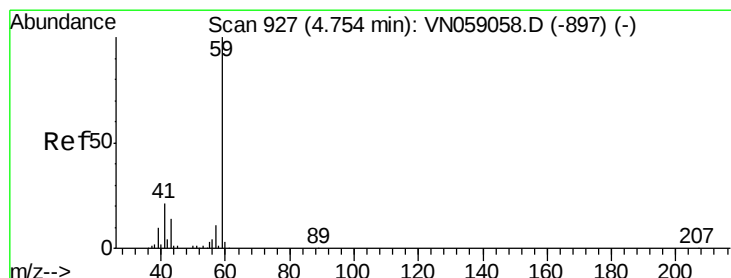
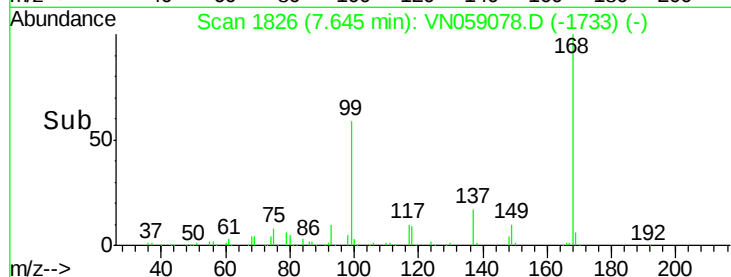
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.611 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.03 min

Lab File: VN059078.D

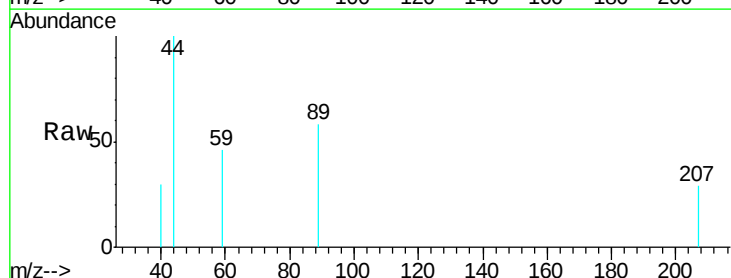
Acq: 4 Nov 2019 11:56

Tgt Ion: 59 Resp: 631

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

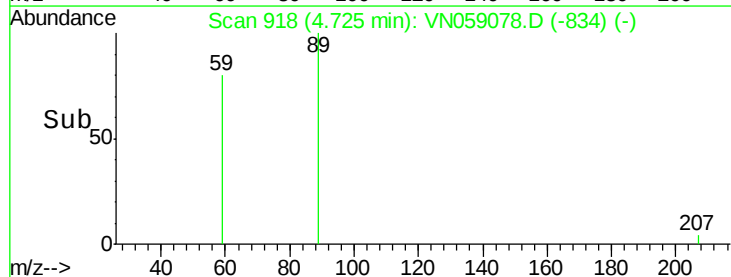
300

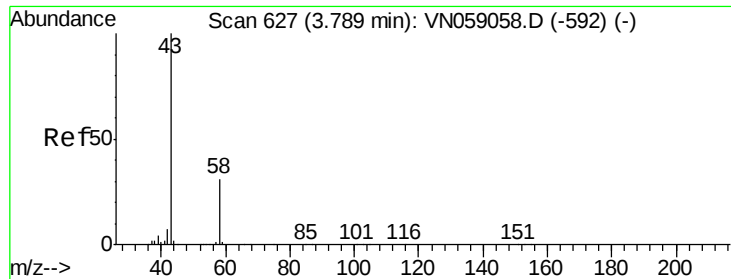
200

100

0

Time--> 4.68 4.70 4.72 4.74





#16

Acetone

Concen: 0.235 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

Instrument :

MSVOA\_N

ClientSampled :

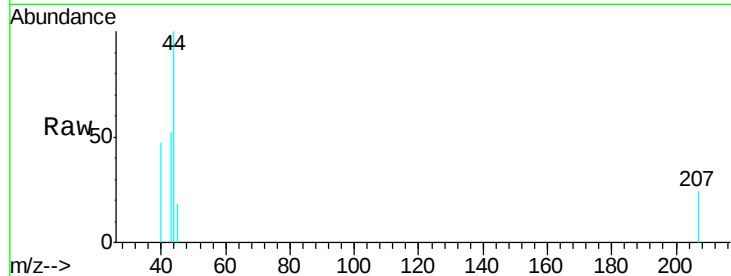
3465

Tgt Ion: 43 Resp: 663

Ion Ratio Lower Upper

43 100

58 0.0 25.0 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

600

500

400

300

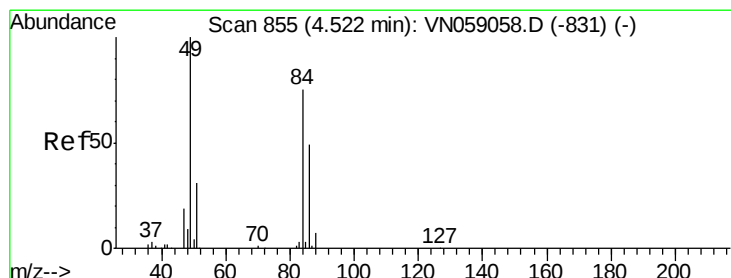
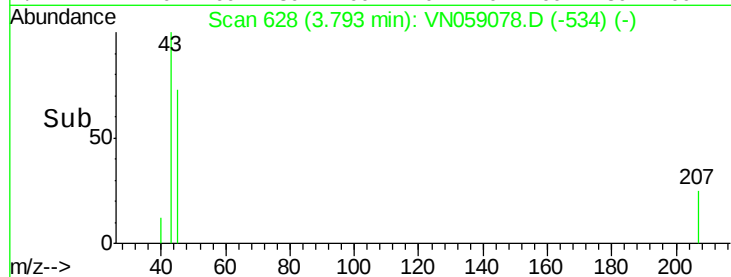
200

100

0

3.76 3.78 3.80

Time-->



#20

Methylene Chloride

Concen: 1.130 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.01 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

Tgt Ion: 84 Resp: 5586

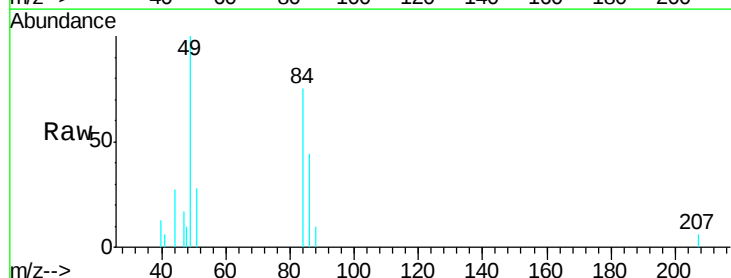
Ion Ratio Lower Upper

84 100

49 133.0 106.4 159.6

51 37.2 33.0 49.4

86 58.1 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

4000

3000

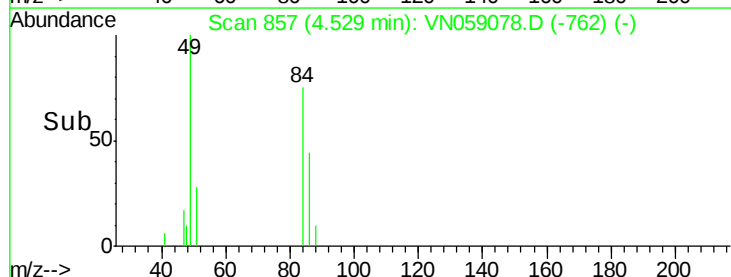
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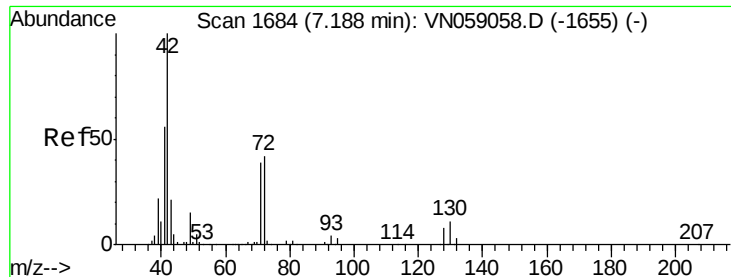
1000

0

4.45 4.50 4.55 4.60

Time-->

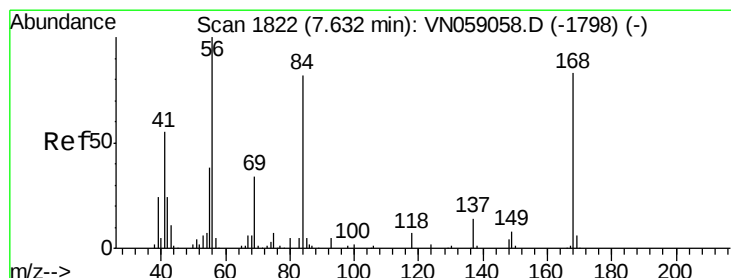
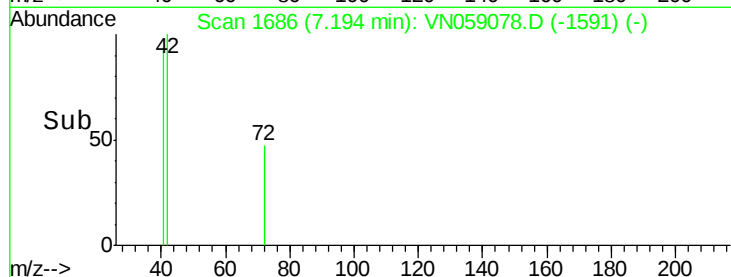
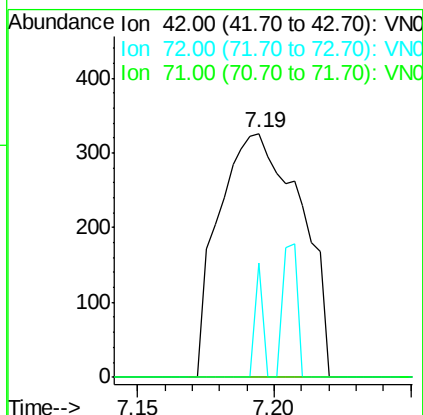
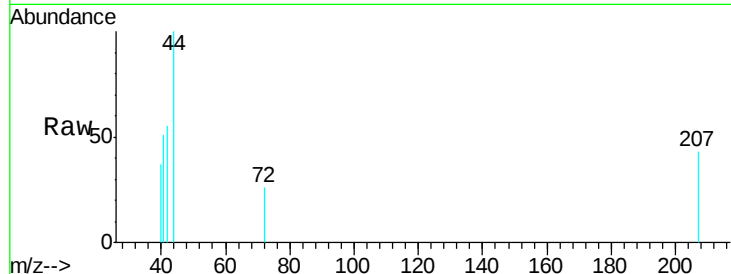




#29  
Tetrahydrofuran  
Concen: 0.287 ug/l  
RT: 7.19 min Scan# 1686  
Delta R.T. 0.01 min  
Lab File: VN059078.D  
Acq: 4 Nov 2019 11:56

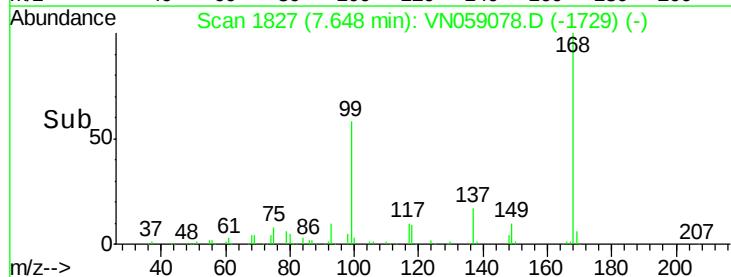
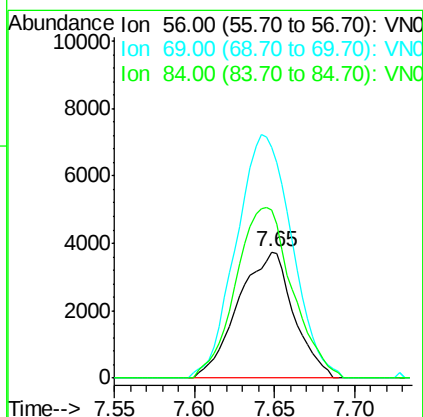
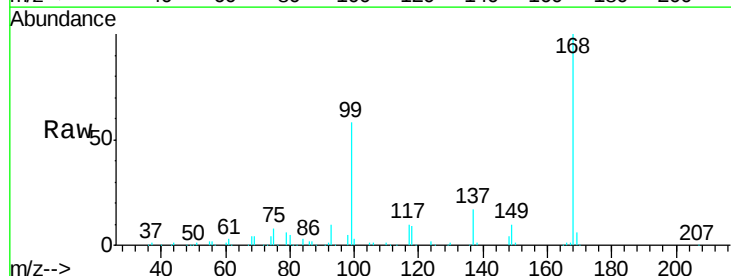
Instrument :  
MSVOA\_N  
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3465

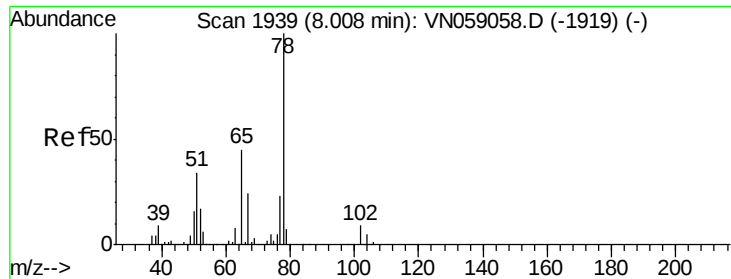
Tgt Ion: 42 Resp: 680  
Ion Ratio Lower Upper  
42 100  
72 4.4 32.7 49.1#  
71 0.0 31.2 46.8#



#31  
Cyclohexane  
Concen: 1.036 ug/l  
RT: 7.65 min Scan# 1827  
Delta R.T. 0.02 min  
Lab File: VN059078.D  
Acq: 4 Nov 2019 11:56

Tgt Ion: 56 Resp: 8899  
Ion Ratio Lower Upper  
56 100  
69 183.0 27.2 40.8#  
84 133.6 65.2 97.8#

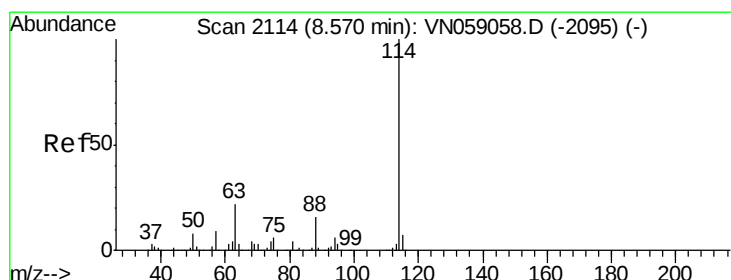
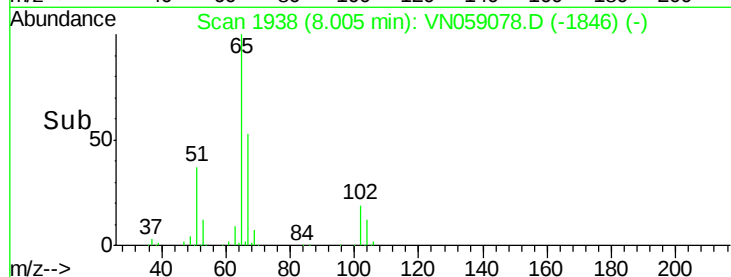
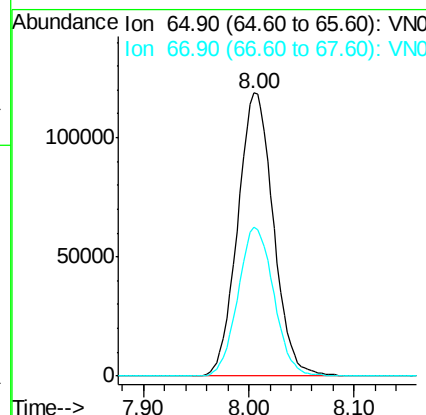
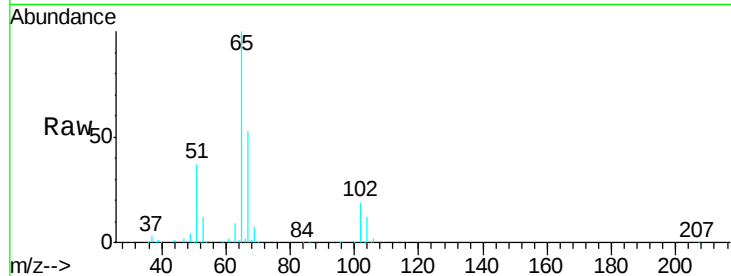




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.029 ug/l  
 RT: 8.00 min Scan# 1938  
 Delta R.T. -0.00 min  
 Lab File: VN059078.D  
 Acq: 4 Nov 2019 11:56

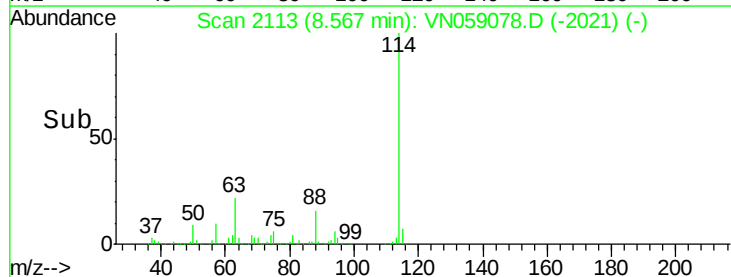
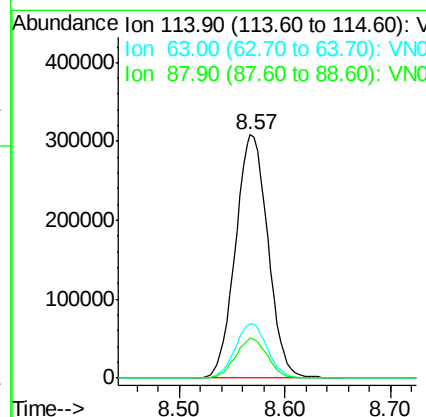
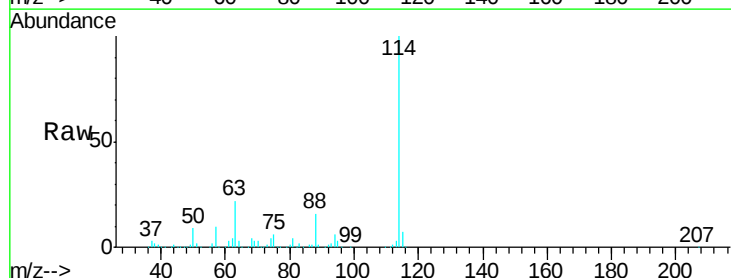
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 3465

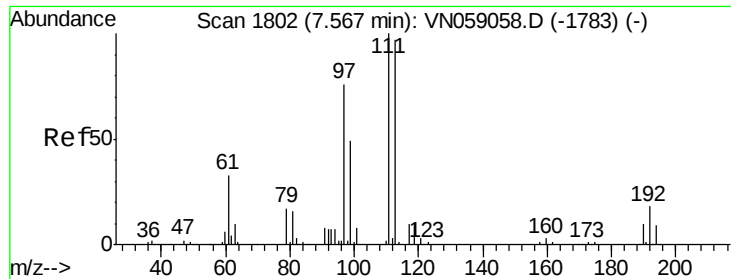
Tgt Ion: 65 Resp: 279081  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 107.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN059078.D  
 Acq: 4 Nov 2019 11:56

Tgt Ion: 114 Resp: 658592  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 0.0 43.2  
 88 16.4 0.0 33.0

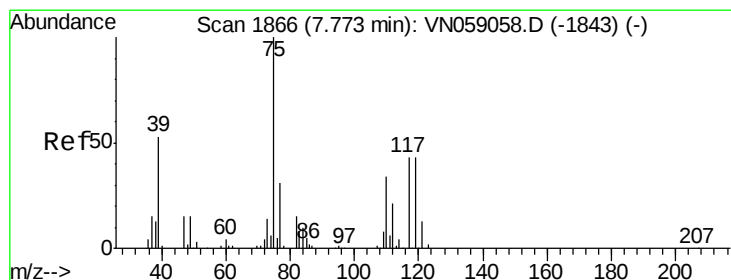
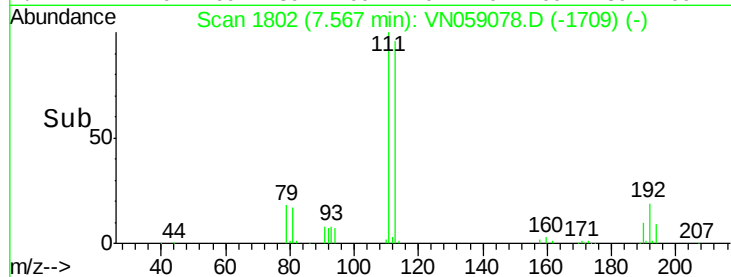
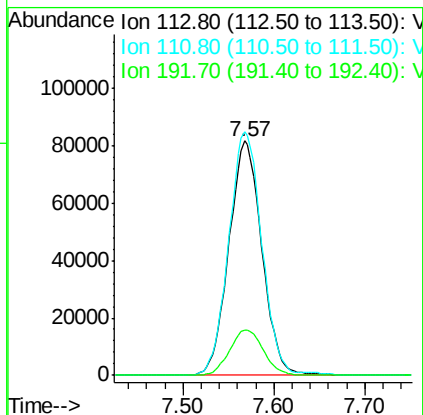
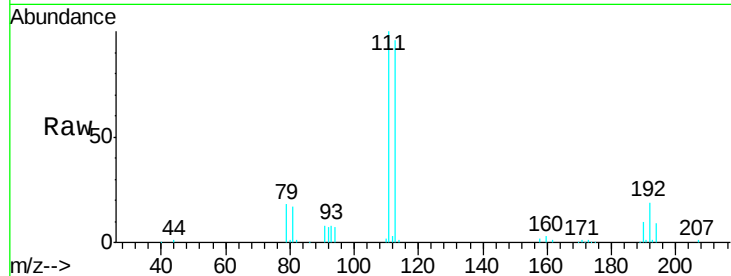




#35  
 Dibromofluoromethane  
 Concen: 48.366 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VN059078.D  
 Acq: 4 Nov 2019 11:56

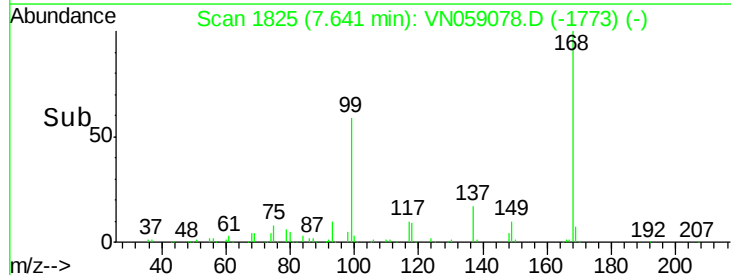
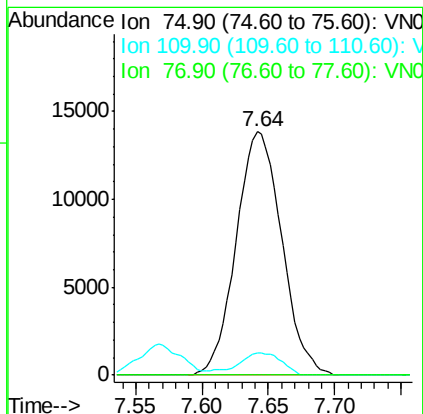
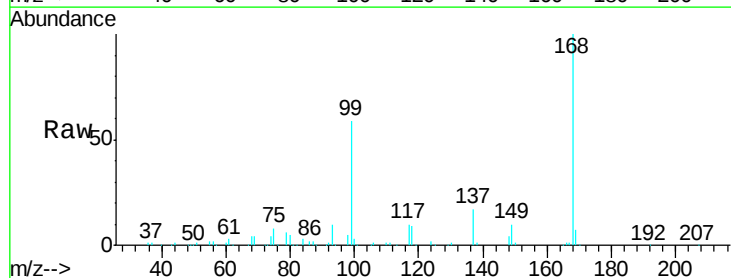
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 3465

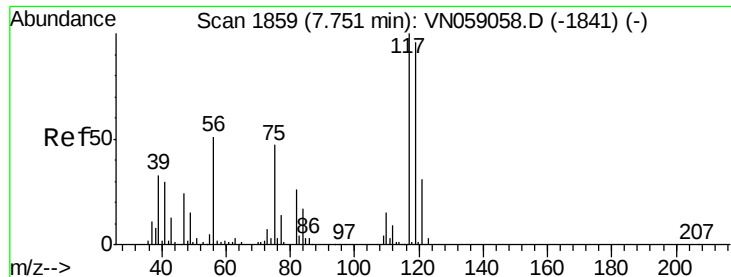
Tgt Ion:113 Resp: 205493  
 Ion Ratio Lower Upper  
 113 100  
 111 104.9 82.9 124.3  
 192 19.8 15.9 23.9



#36  
 1,1-Dichloropropene  
 Concen: 5.062 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN059078.D  
 Acq: 4 Nov 2019 11:56

Tgt Ion: 75 Resp: 33132  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 16.9 50.6#  
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.400 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

Instrument :

MSVOA\_N

ClientSampled :

3465

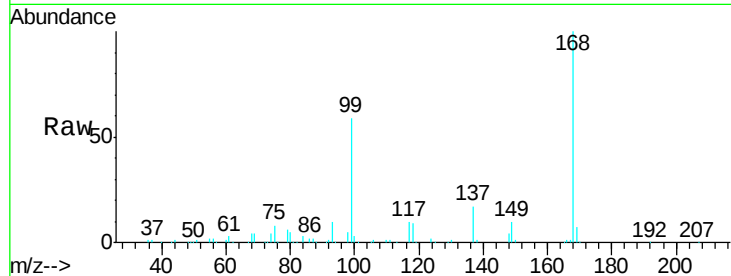
Tgt Ion:117 Resp: 40828

Ion Ratio Lower Upper

117 100

119 4.7 76.6 114.8#

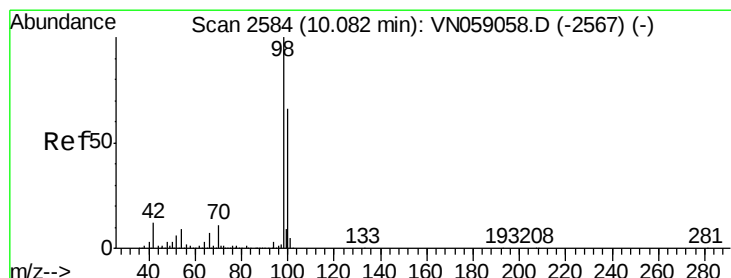
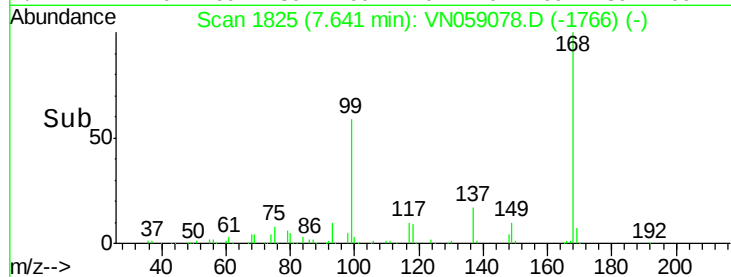
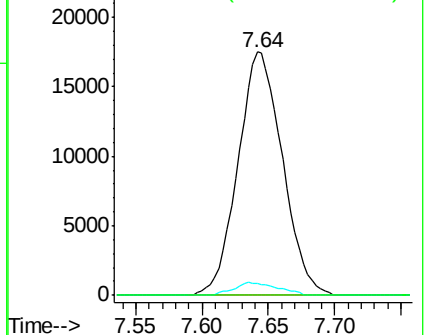
121 0.0 24.6 37.0#



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: 48.564 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059078.D

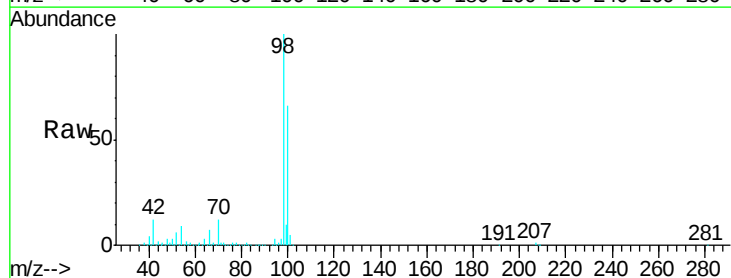
Acq: 4 Nov 2019 11:56

Tgt Ion: 98 Resp: 803325

Ion Ratio Lower Upper

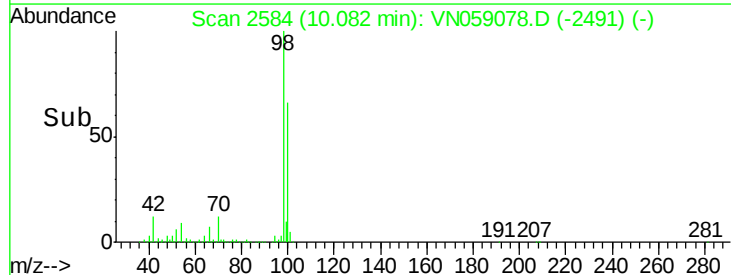
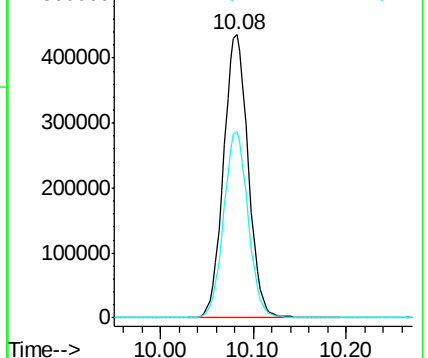
98 100

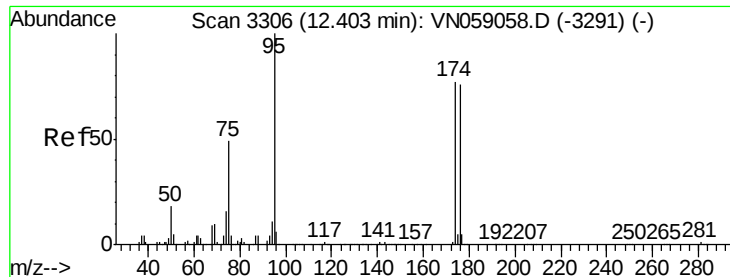
100 65.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 42.239 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

Instrument :

MSVOA\_N

ClientSampleId :

3465

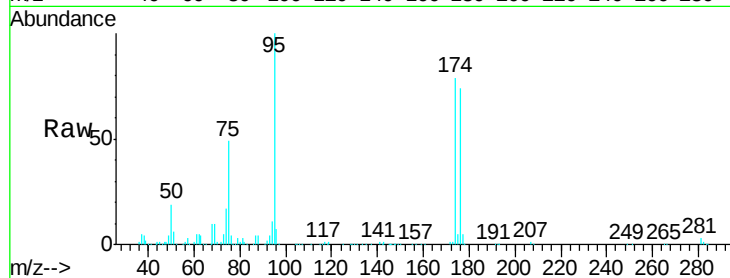
Tgt Ion: 95 Resp: 251159

Ion Ratio Lower Upper

95 100

174 78.1 0.0 155.8

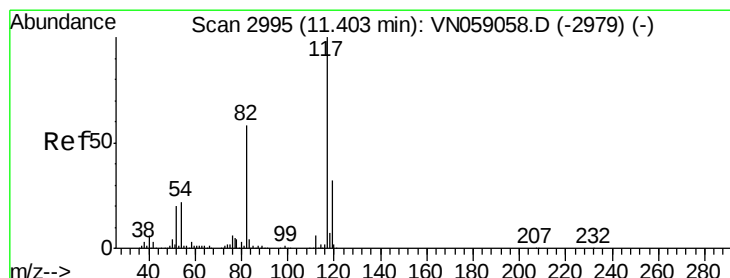
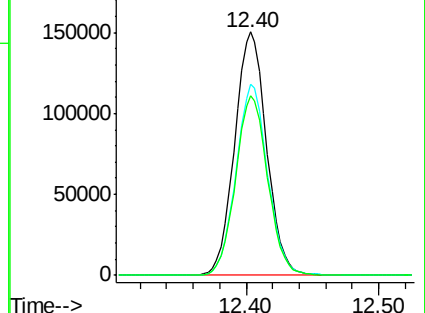
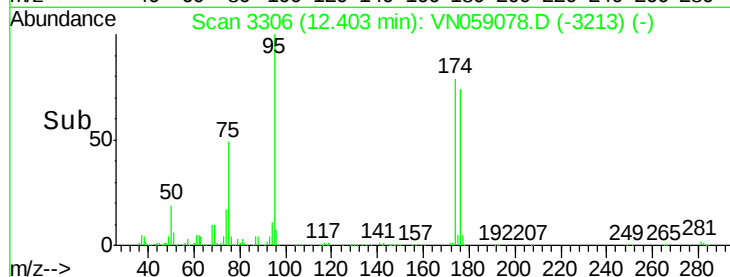
176 74.3 0.0 151.6



Abundance Ion 94.90 (94.60 to 95.60): VN059078.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN059078.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN059078.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

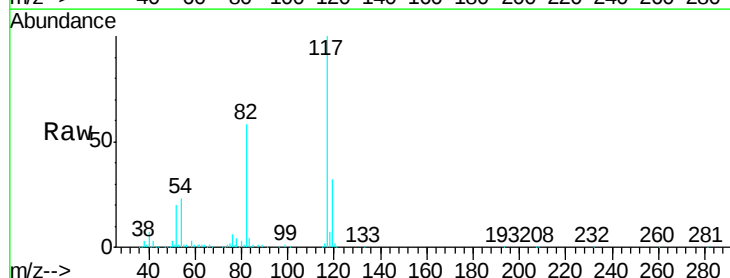
Tgt Ion: 117 Resp: 577783

Ion Ratio Lower Upper

117 100

82 57.8 46.0 69.0

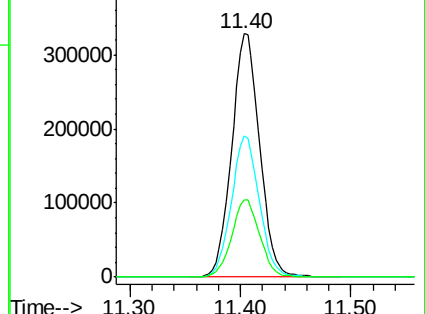
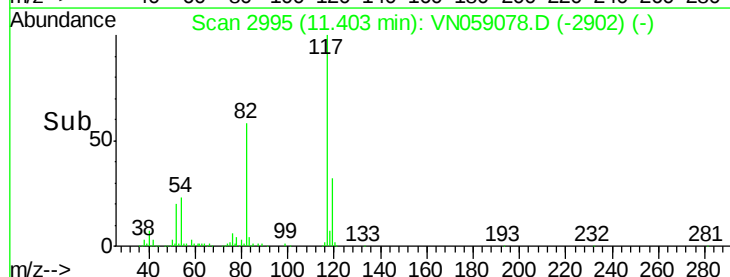
119 31.8 25.6 38.4

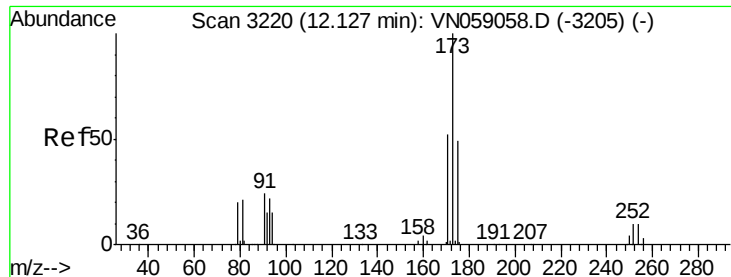


Abundance Ion 116.90 (116.60 to 117.60): VN059078.D (-2902) (-)

Ion 82.00 (81.70 to 82.70): VN059078.D (-2902) (-)

Ion 118.90 (118.60 to 119.60): VN059078.D (-2902) (-)





#71

Bromoform

Concen: 0.446 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

Instrument :

MSVOA\_N

ClientSampled :

3465

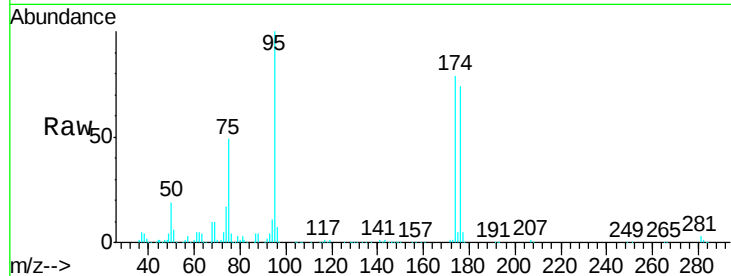
Tgt Ion:173 Resp: 1507

Ion Ratio Lower Upper

173 100

175 764.6 24.4 73.2#

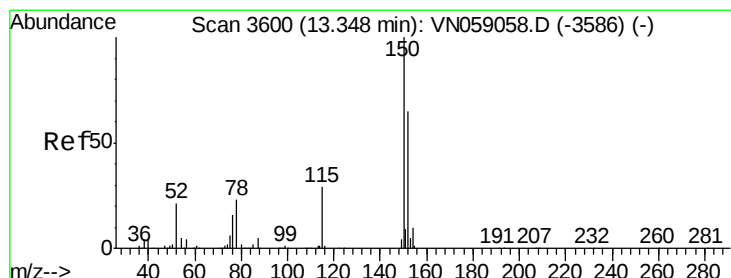
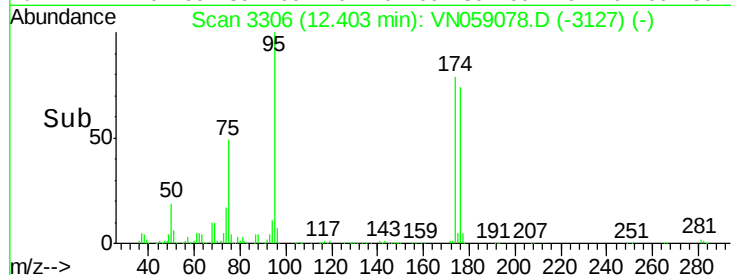
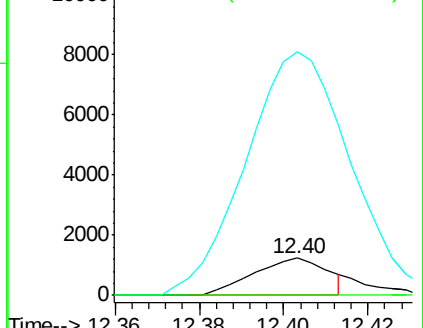
254 0.0 0.1 0.1#



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: VN059078.D

Acq: 4 Nov 2019 11:56

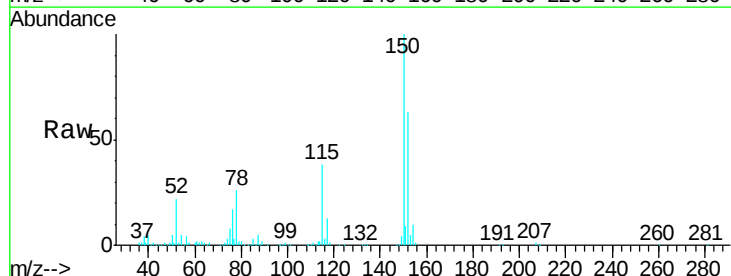
Tgt Ion:152 Resp: 202686

Ion Ratio Lower Upper

152 100

115 60.6 29.6 88.9

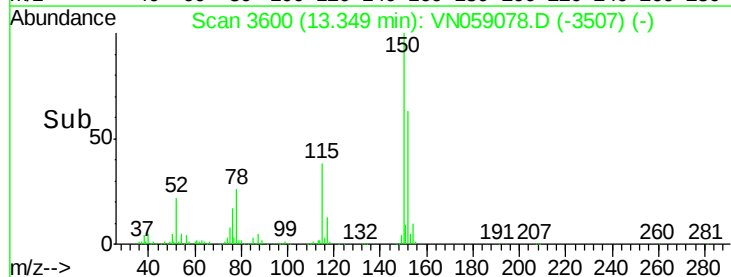
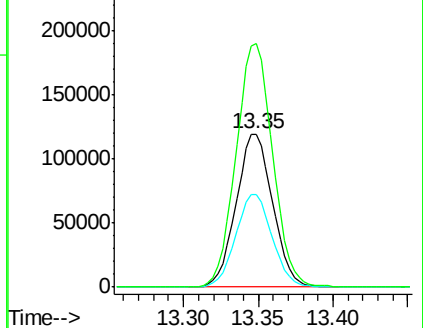
150 159.9 0.0 345.8

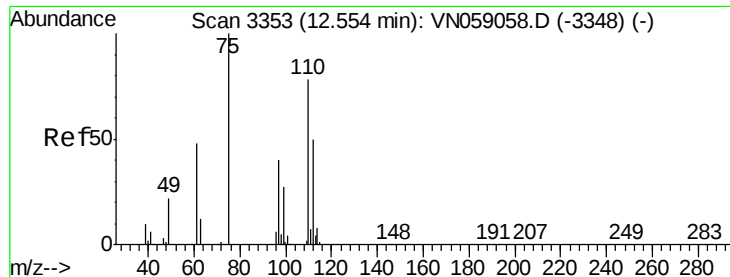


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.578 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

Instrument :

MSVOA\_N

ClientSampled :

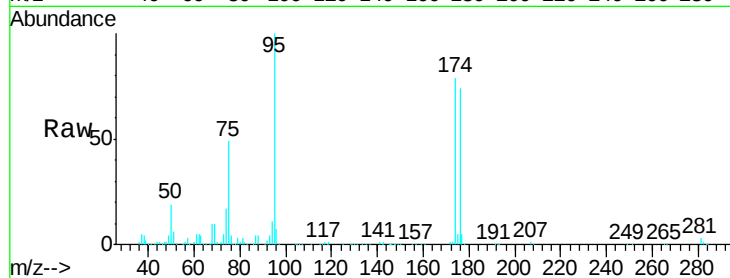
3465

Tgt Ion: 75 Resp: 127479

Ion Ratio Lower Upper

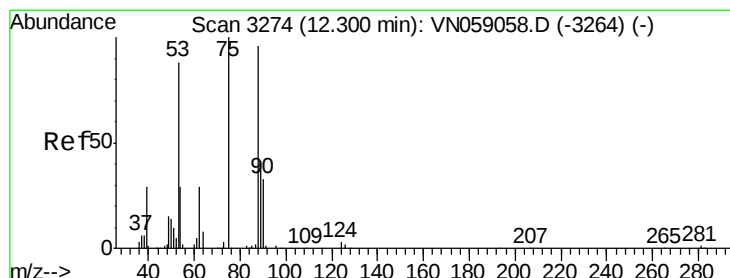
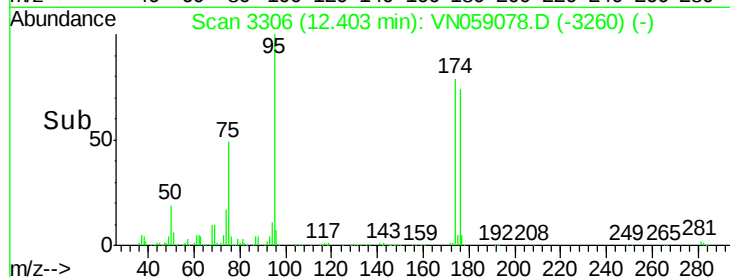
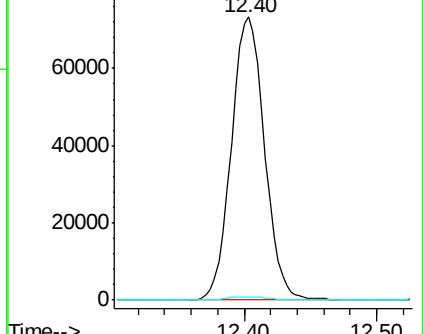
75 100

77 1.4 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: 68.133 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059078.D

Acq: 4 Nov 2019 11:56

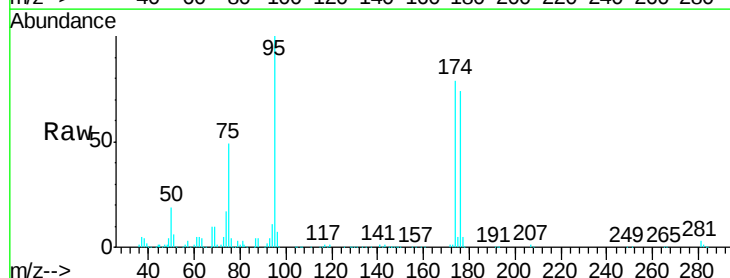
Tgt Ion: 75 Resp: 127479

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

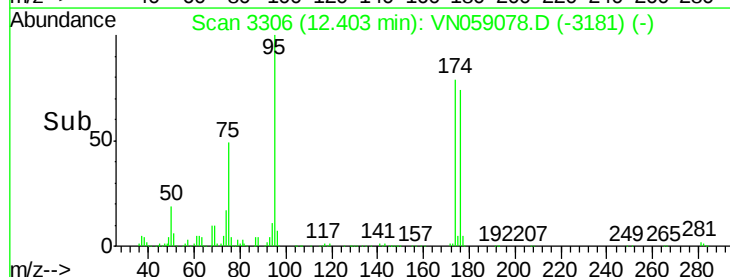
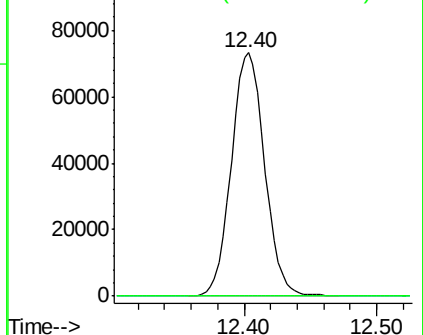
89 0.0 34.2 51.2#

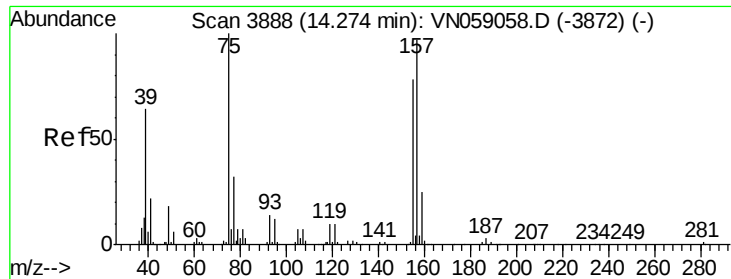


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

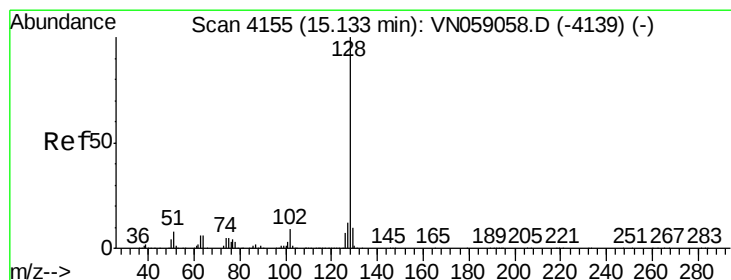
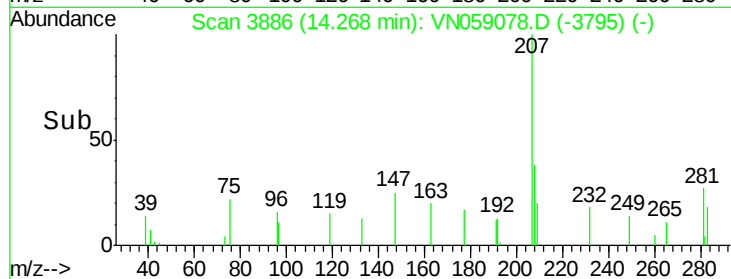
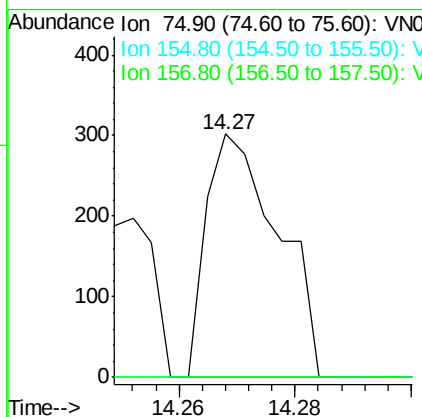
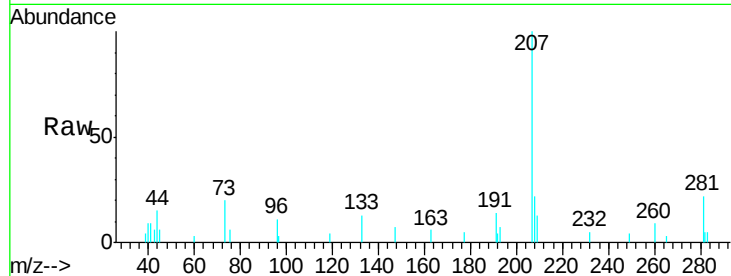




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.226 ug/l  
 RT: 14.27 min Scan# 3886  
 Delta R.T. -0.01 min  
 Lab File: VN059078.D  
 Acq: 4 Nov 2019 11:56

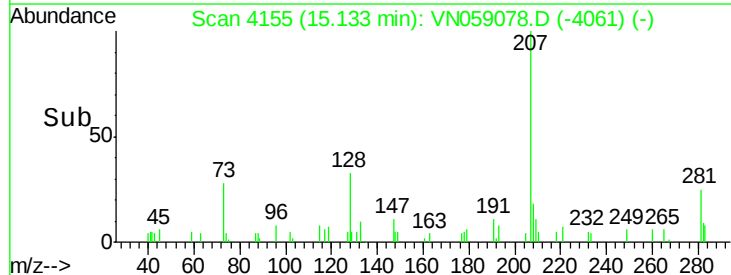
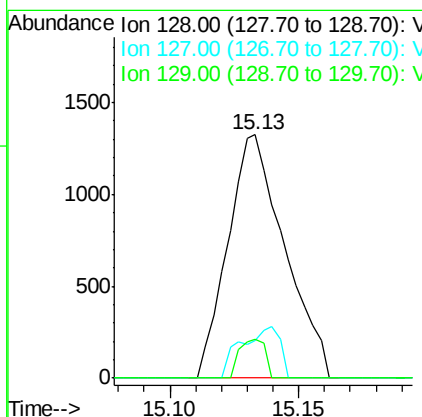
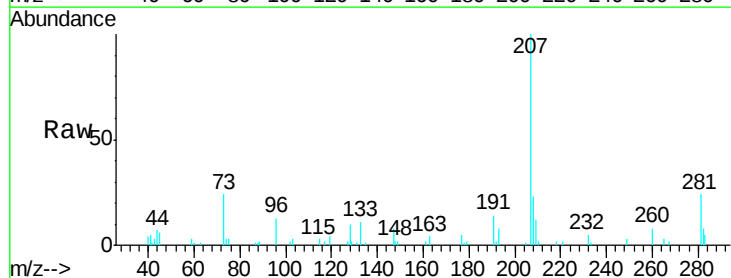
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 3465

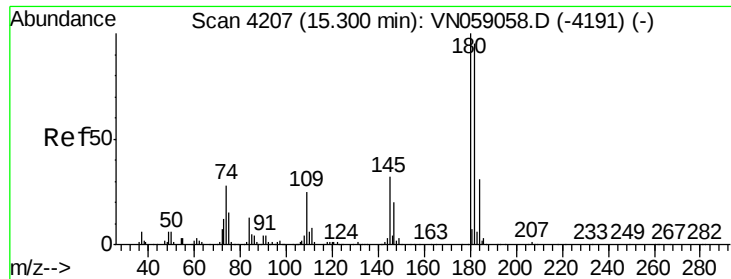
Tgt Ion: 75 Resp: 259  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 39.7 119.1#  
 157 0.0 51.0 153.0#



#95  
 Naphthalene  
 Concen: 3.158 ug/l  
 RT: 15.13 min Scan# 4155  
 Delta R.T. 0.00 min  
 Lab File: VN059078.D  
 Acq: 4 Nov 2019 11:56

Tgt Ion: 128 Resp: 2028  
 Ion Ratio Lower Upper  
 128 100  
 127 14.2 9.9 14.9  
 129 7.2 8.4 12.6#

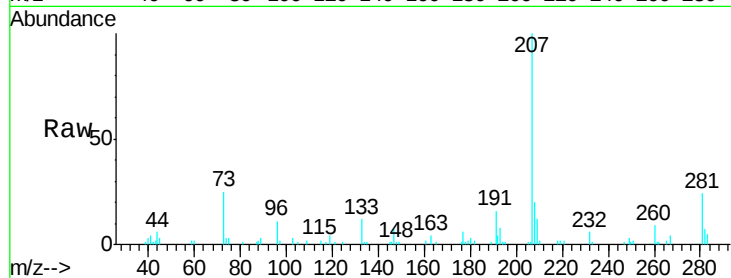




#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.218 ug/l  
 RT: 15.30 min Scan# 4208  
 Delta R.T. 0.00 min  
 Lab File: VN059078.D  
 Acq: 4 Nov 2019 11:56

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 3465

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 51.2  | 47.7  | 143.1 |
| 145     | 31.8  | 16.0  | 48.0  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

