

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\  
 Data File : VN059859.D  
 Acq On : 24 Jan 2020 20:35  
 Operator : JC/MD  
 Sample : PB126303ZHE#08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 25 00:31:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 18 03:09:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 196925   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 295382   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 257936   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 100693   | 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   | 104514   | 47.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.58%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 90859    | 51.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.16% |          |
| 50) Toluene-d8              | 10.08 | 98   | 348566   | 51.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.14% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 110498   | 44.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.82%  |          |

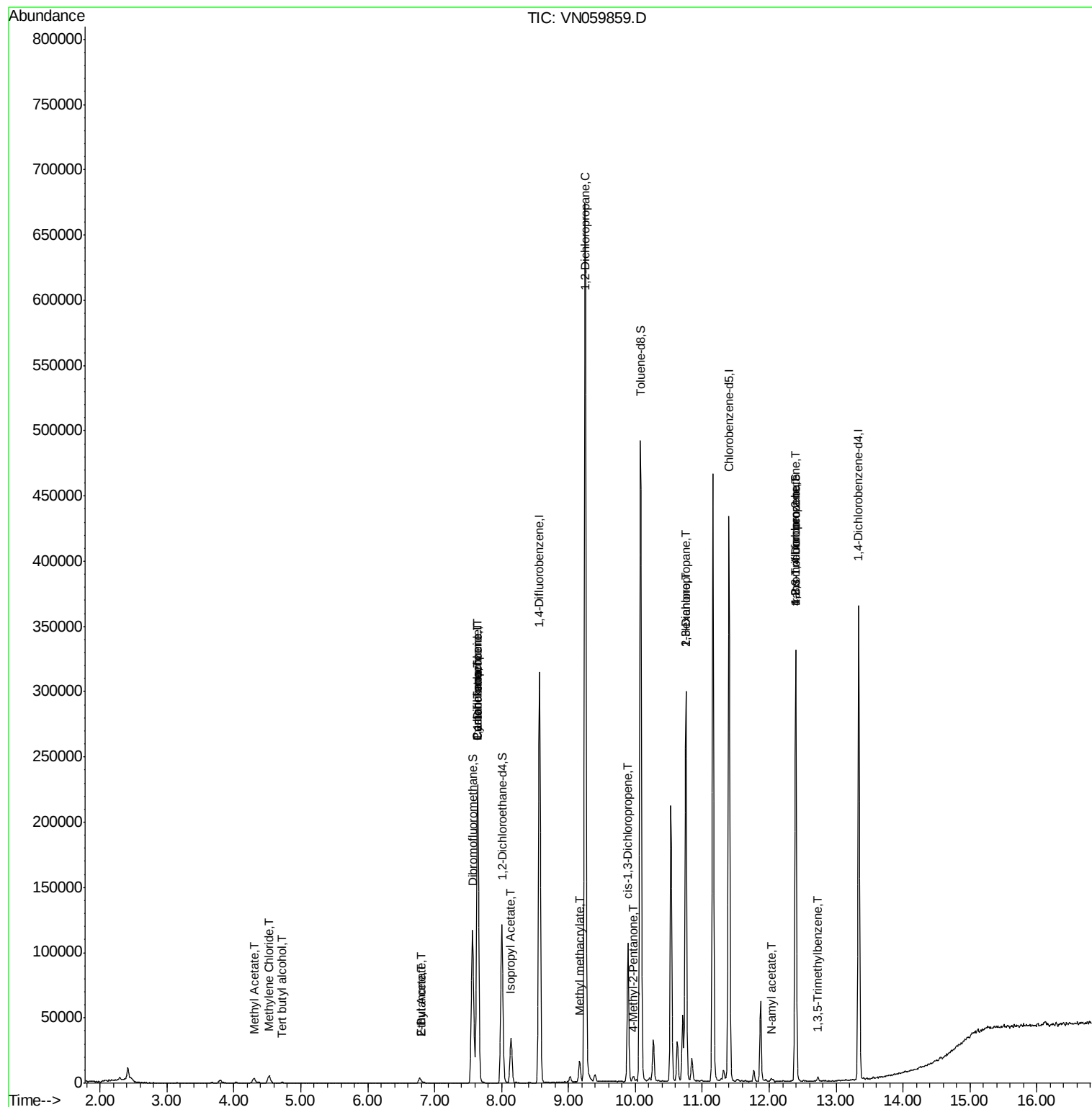
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.72  | 59   | 227      | 0.617     | ug/l # | 72     |
| 16) Acetone                    | 3.80  | 43   | 4407     | Below Cal |        | 92     |
| 18) Methyl Acetate             | 4.30  | 43   | 7071     | 2.768     | ug/l   | 98     |
| 20) Methylene Chloride         | 4.53  | 84   | 4650     | 1.084     | ug/l   | 89     |
| 25) 2-Butanone                 | 6.81  | 43   | 981      | 0.792     | ug/l # | 50     |
| 31) Cyclohexane                | 7.64  | 56   | 3716     | 1.148     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 13308    | 5.174     | ug/l # | 51     |
| 37) Ethyl Acetate              | 6.81  | 43   | 981      | 0.407     | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18405    | 6.578     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 40874    | 9.850     | ug/l # | 90     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 783      | 0.412     | ug/l # | 44     |
| 48) Methyl methacrylate        | 9.16  | 41   | 2386     | 1.285     | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 2674     | 1.115     | ug/l   | 100    |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 19803    | 6.246     | ug/l # | 55     |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 3189     | 1.047     | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.75 | 43   | 41551    | 23.512    | ug/l # | 56     |
| 74) N-amyl acetate             | 12.03 | 43   | 2070     | 0.722     | ug/l # | 45     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 56184    | 33.155    | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 2369     | 0.381     | ug/l   | 89     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 56184    | 71.202    | ug/l # | 11     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75   | 31       | Below Cal | #      | 6      |

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

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Quant Time: Jan 25 00:31:40 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 18 03:09:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

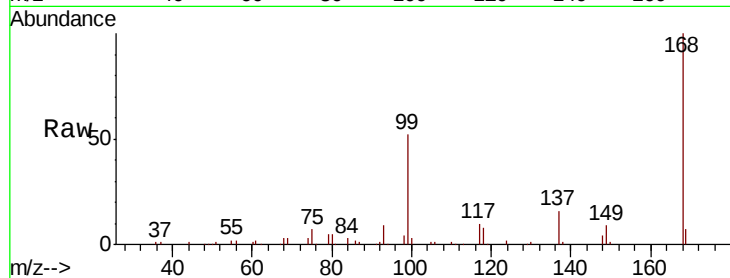
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:168 Resp: 196925

Ion Ratio Lower Upper

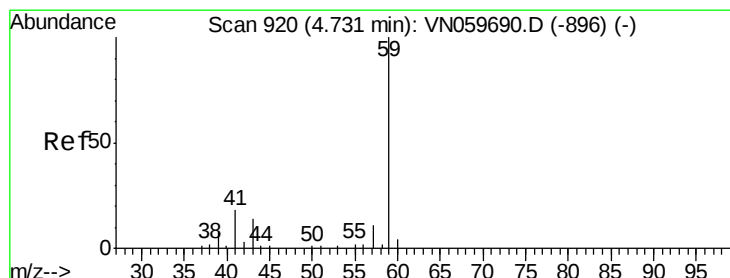
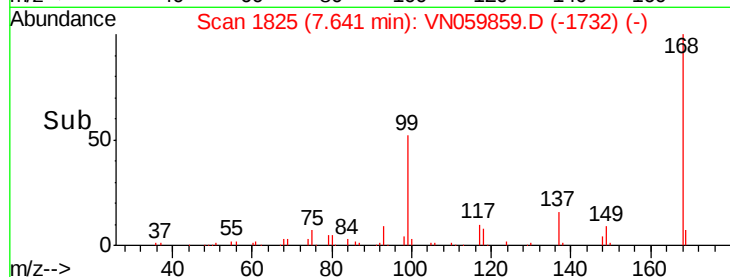
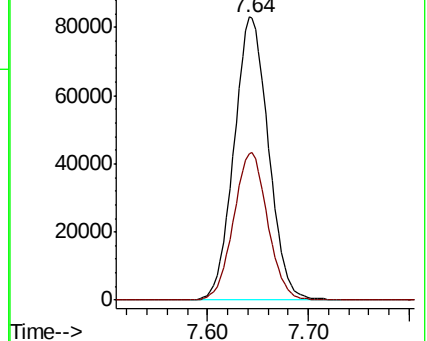
168 100

99 51.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.617 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.02 min

Lab File: VN059859.D

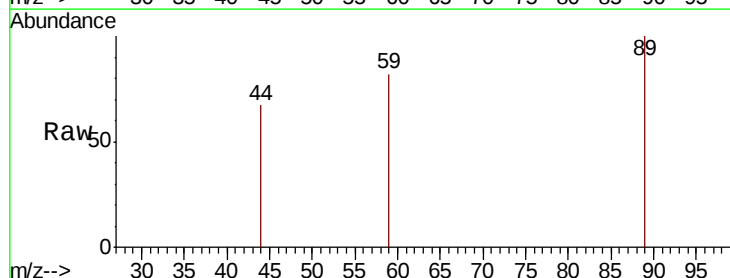
Acq: 24 Jan 2020 20:35

Tgt Ion: 59 Resp: 227

Ion Ratio Lower Upper

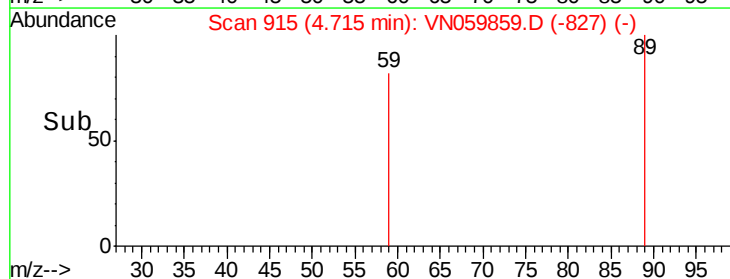
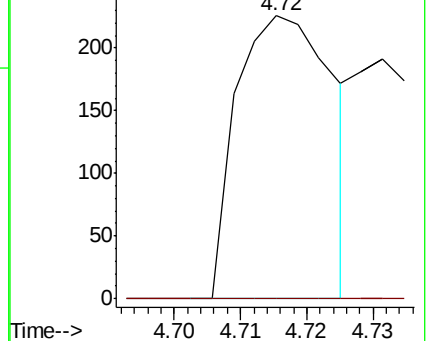
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :

MSVOA\_N

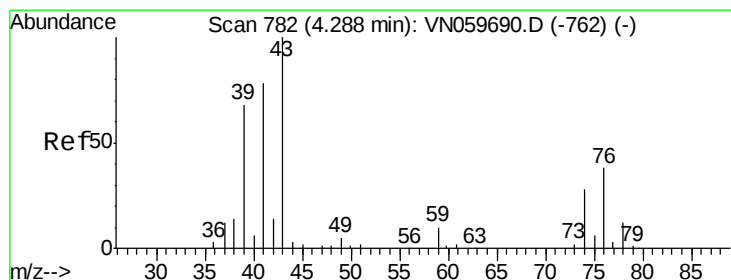
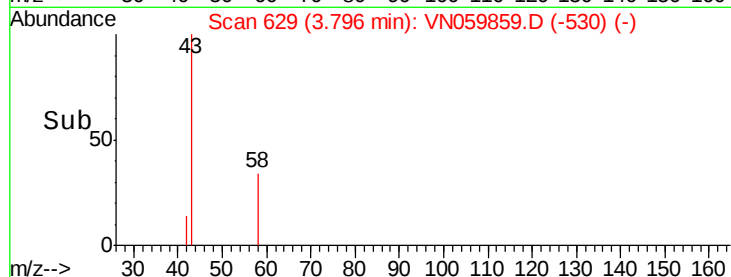
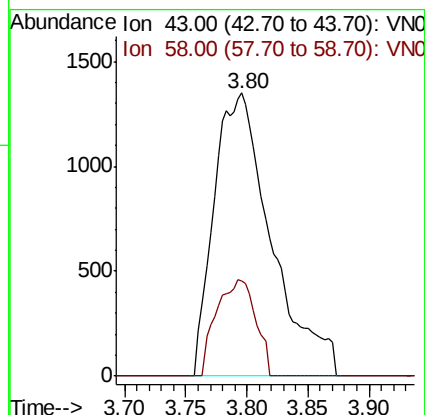
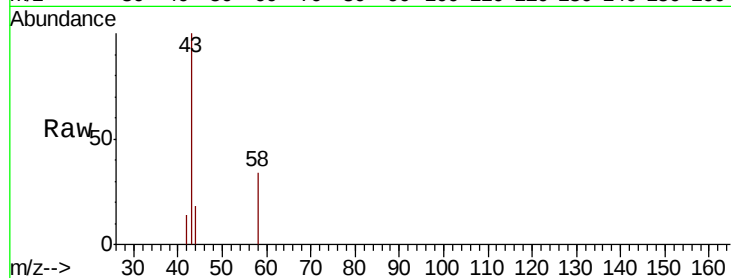
ClientSampled :

Tot Ion: 43 Resp: 4407

Ion Ratio Lower Upper

43 100

58 33.7 23.6 35.4



#18

Methyl Acetate

Concen: 2.768 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059859.D

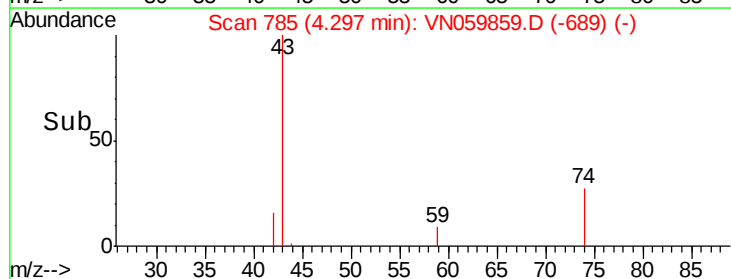
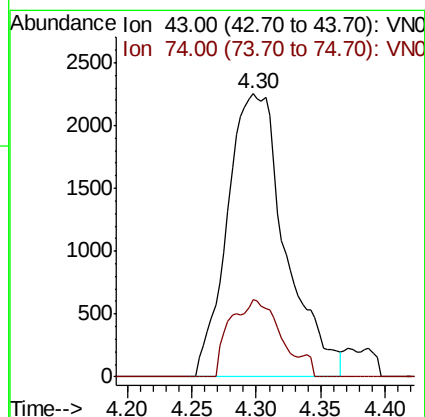
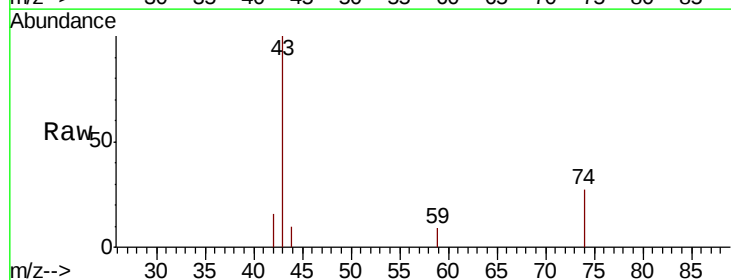
Acq: 24 Jan 2020 20:35

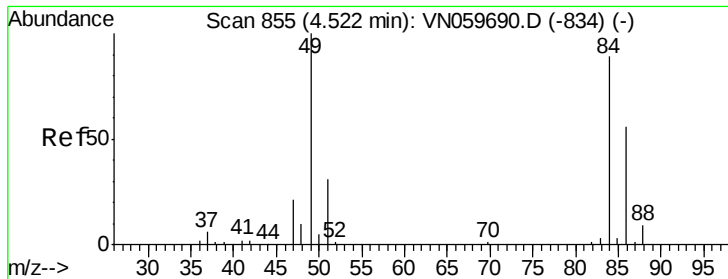
Tgt Ion: 43 Resp: 7071

Ion Ratio Lower Upper

43 100

74 22.8 17.5 26.3





#20

Methvlene Chloride

Concen: 1.084 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 84 Resp: 4650

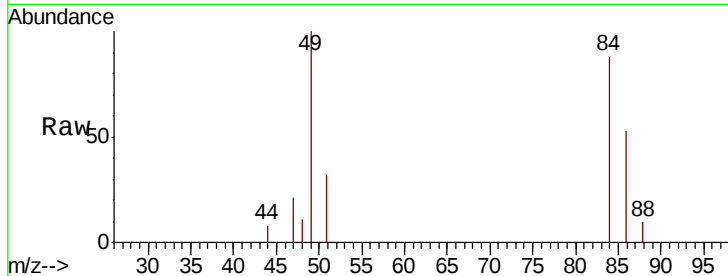
Ion Ratio Lower Upper

84 100

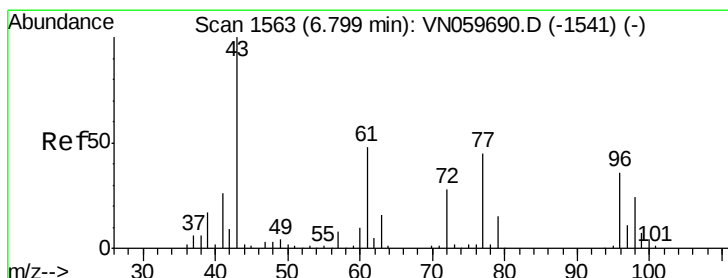
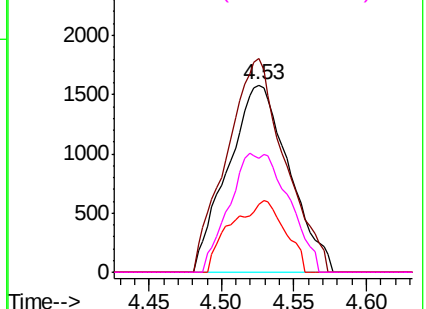
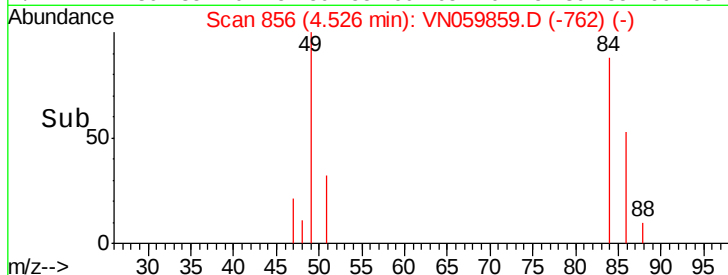
49 114.2 106.6 160.0

51 36.0 31.9 47.9

86 60.8 50.8 76.2



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



#25

2-Butanone

Concen: 0.792 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN059859.D

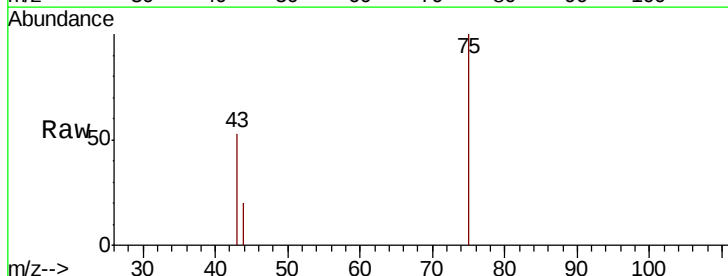
Acq: 24 Jan 2020 20:35

Tgt Ion: 43 Resp: 981

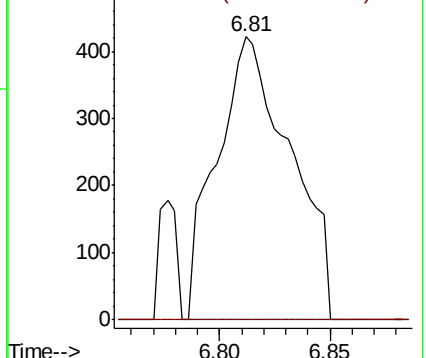
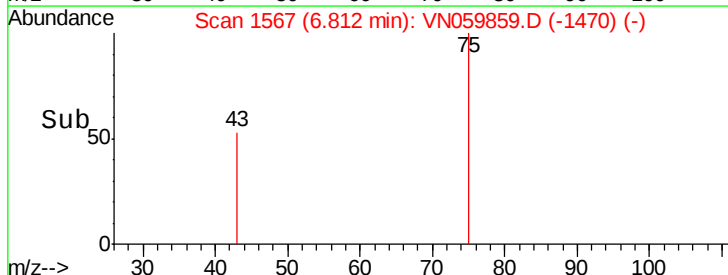
Ion Ratio Lower Upper

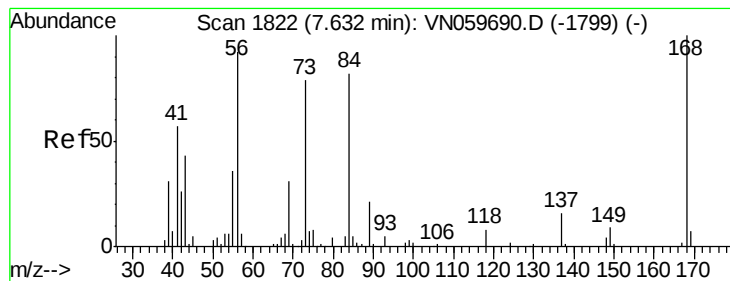
43 100

72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.148 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :

MSVOA\_N

ClientSampleId :

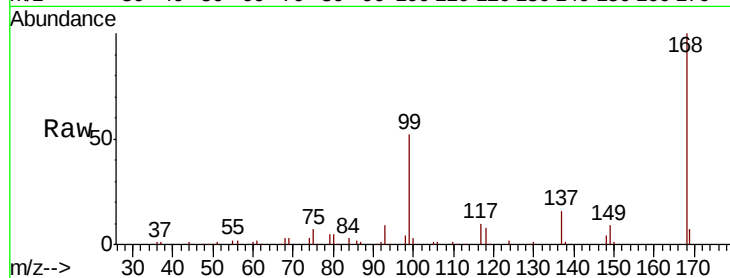
Tot Ion: 56 Resp: 3716

Ion Ratio Lower Upper

56 100

69 166.9 26.5 39.7#

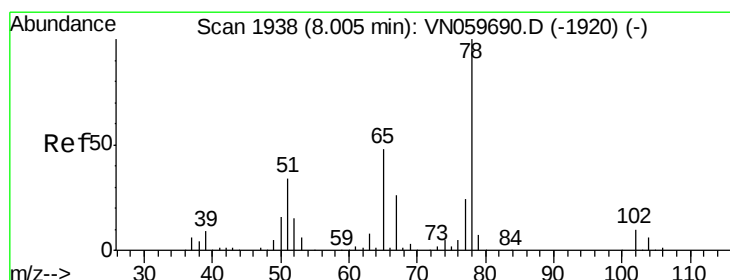
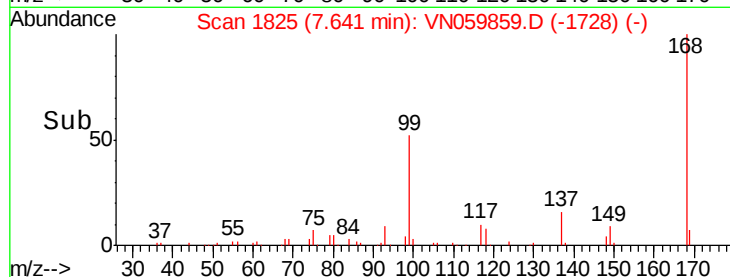
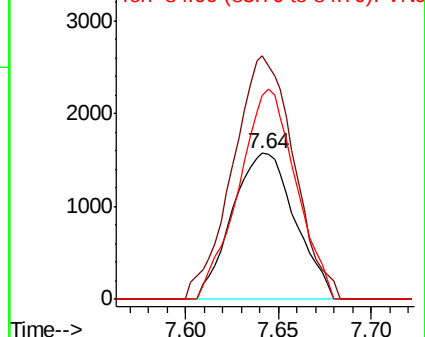
84 139.4 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059690.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059690.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059690.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.791 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059859.D

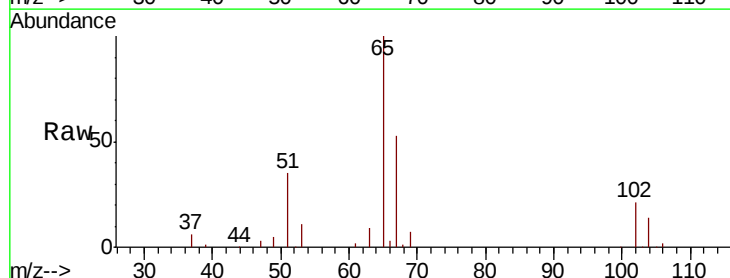
Acq: 24 Jan 2020 20:35

Tgt Ion: 65 Resp: 104514

Ion Ratio Lower Upper

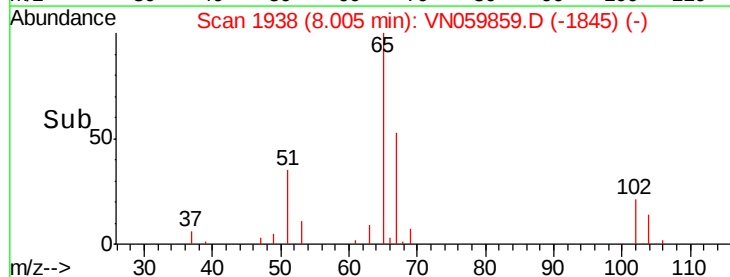
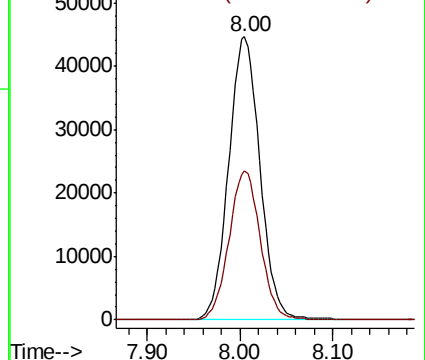
65 100

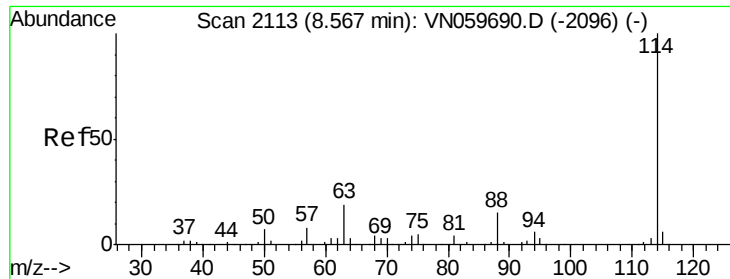
67 52.5 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059690.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059690.D (-1920) (-)

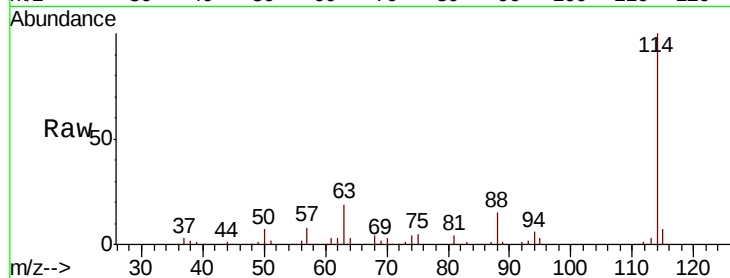




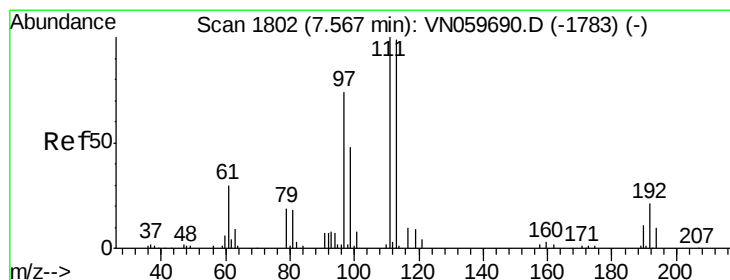
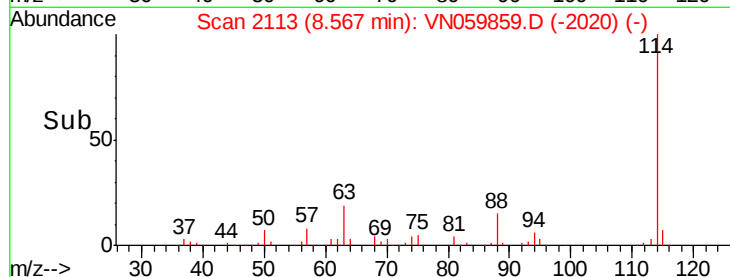
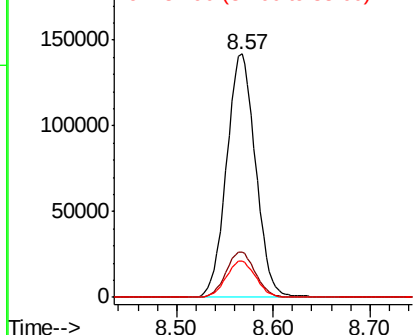
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2113  
Delta R.T. 0.00 min  
Lab File: VN059859.D  
Acq: 24 Jan 2020 20:35

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:114 Resp: 295382  
Ion Ratio Lower Upper  
114 100  
63 18.8 0.0 43.6  
88 14.8 0.0 31.4

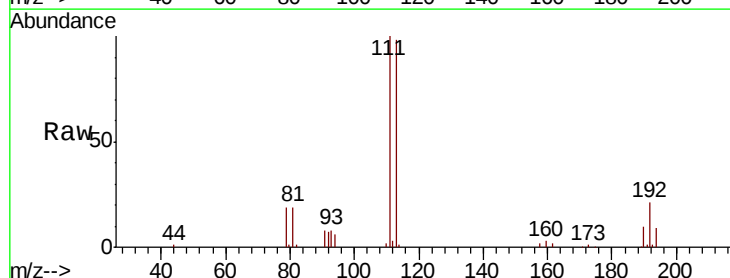


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

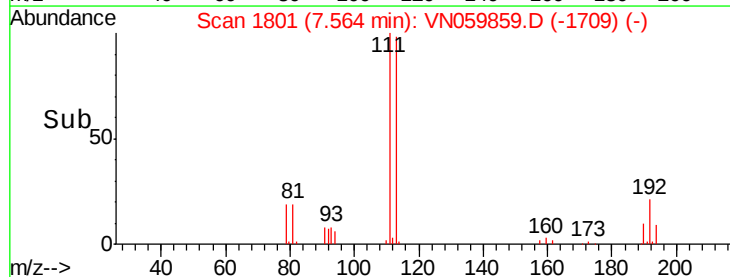
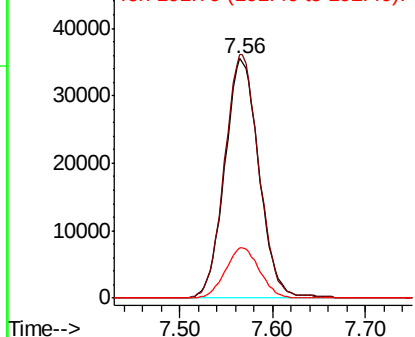


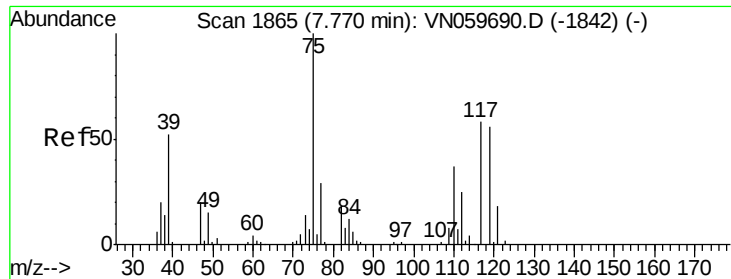
#35  
Dibromofluoromethane  
Concen: 51.581 ug/l  
RT: 7.56 min Scan# 1801  
Delta R.T. -0.00 min  
Lab File: VN059859.D  
Acq: 24 Jan 2020 20:35

Tgt Ion:113 Resp: 90859  
Ion Ratio Lower Upper  
113 100  
111 101.7 83.5 125.3  
192 20.9 15.4 23.2



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

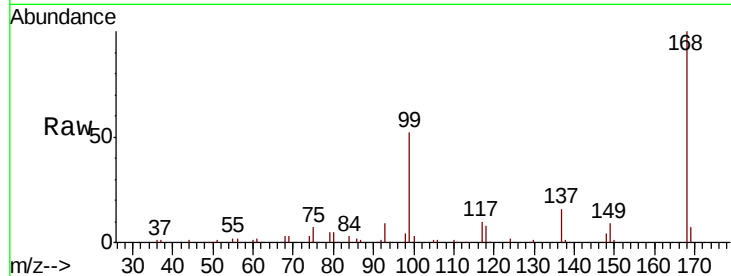




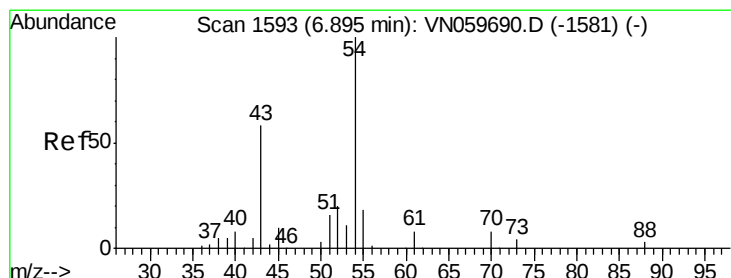
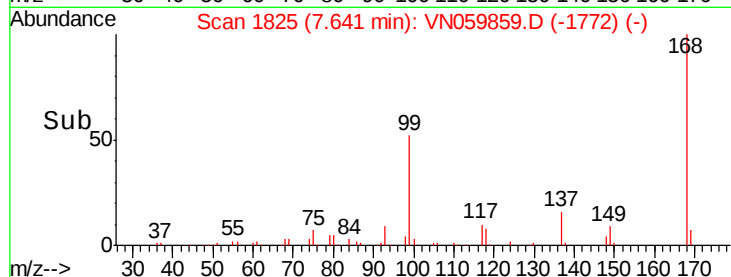
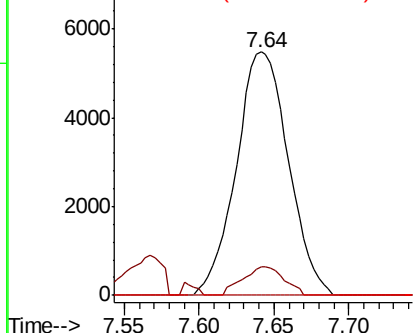
#36  
 1,1-Dichloropropene  
 Concen: 5.174 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN059859.D  
 Acq: 24 Jan 2020 20:35

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 75 Resp: 13308  
 Ion Ratio Lower Upper  
 75 100  
 110 9.3 16.6 49.7#  
 77 0.0 25.1 37.7#

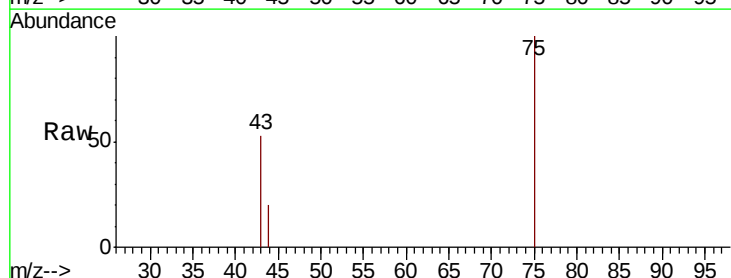


Abundance Ion 74.90 (74.60 to 75.60): VN0  
 Ion 109.90 (109.60 to 110.60): VN0  
 Ion 76.90 (76.60 to 77.60): VN0

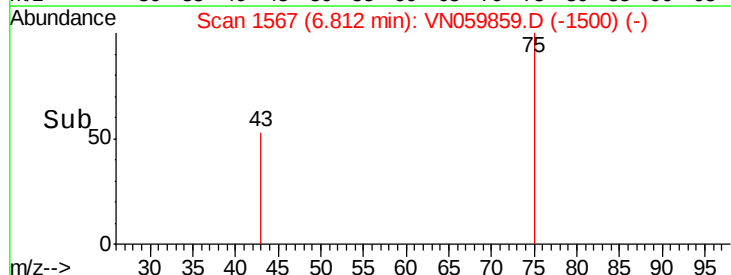
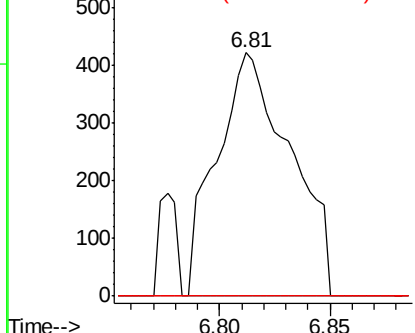


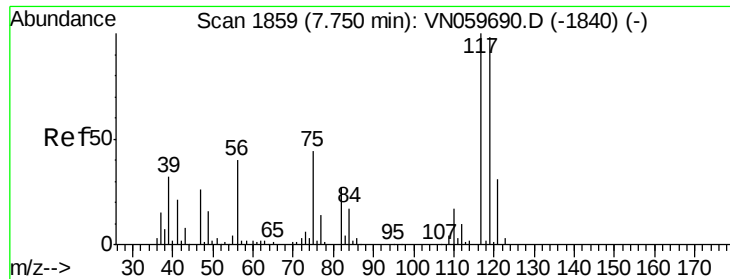
#37  
 Ethyl Acetate  
 Concen: 0.407 ug/l  
 RT: 6.81 min Scan# 1567  
 Delta R.T. -0.08 min  
 Lab File: VN059859.D  
 Acq: 24 Jan 2020 20:35

Tgt Ion: 43 Resp: 981  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 10.9 16.3#  
 70 0.0 7.7 11.5#



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: 6.578 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :  
MSVOA\_N  
ClientSampled :

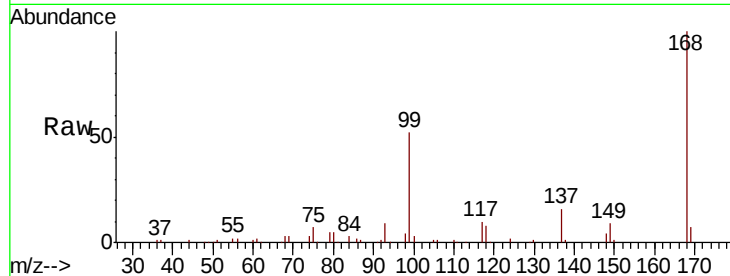
Tot Ion:117 Resp: 18405

Ion Ratio Lower Upper

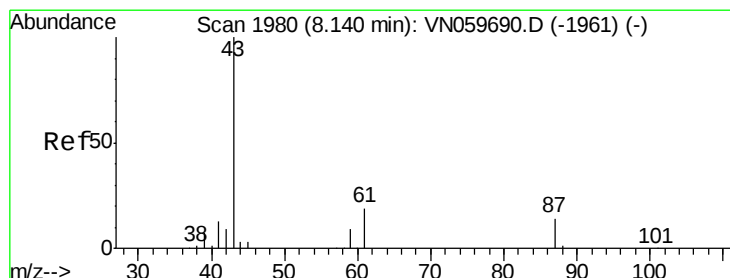
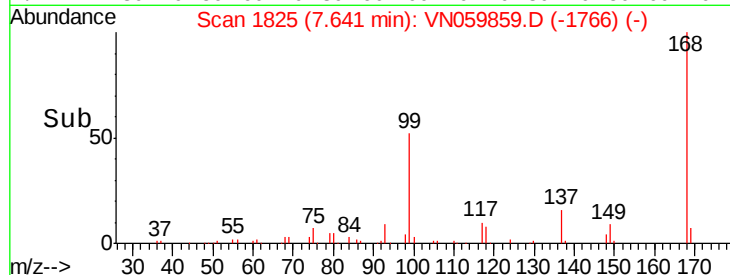
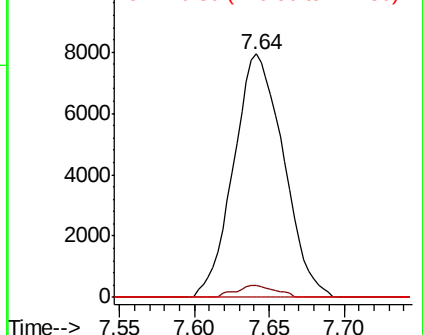
117 100

119 4.9 76.5 114.7#

121 0.0 25.1 37.7#



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



#43

Isopropyl Acetate

Concen: 9.850 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

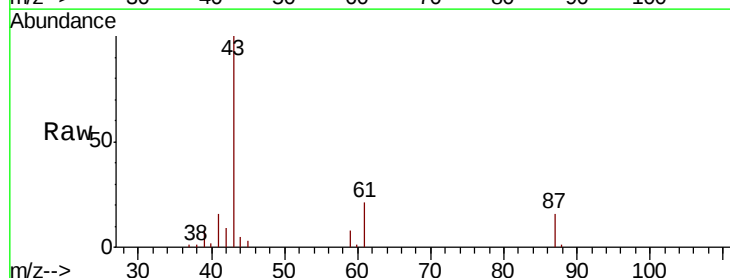
Tgt Ion: 43 Resp: 40874

Ion Ratio Lower Upper

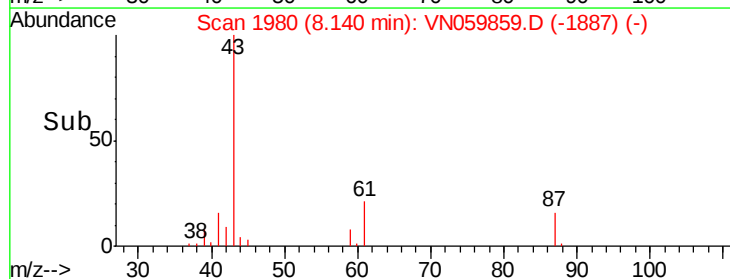
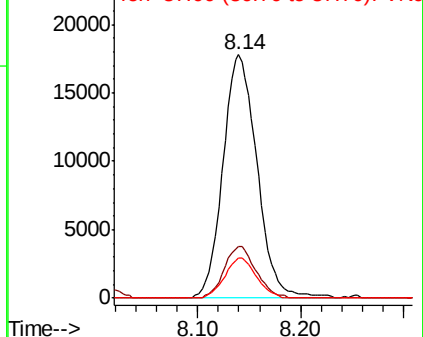
43 100

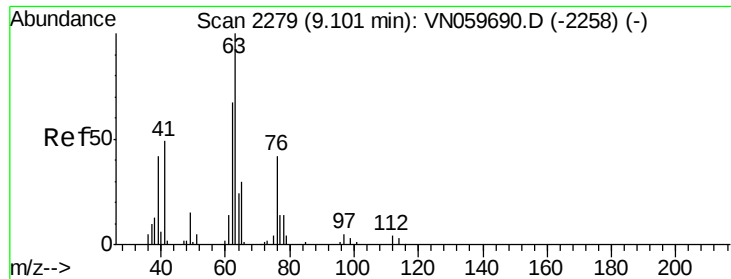
61 19.7 20.2 30.2#

87 15.3 9.5 14.3#



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

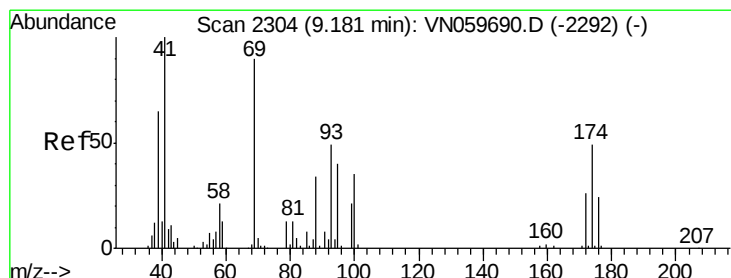
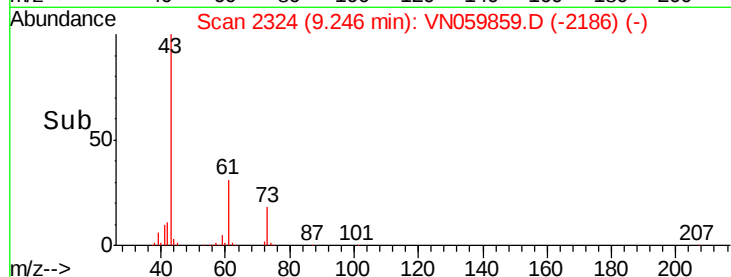
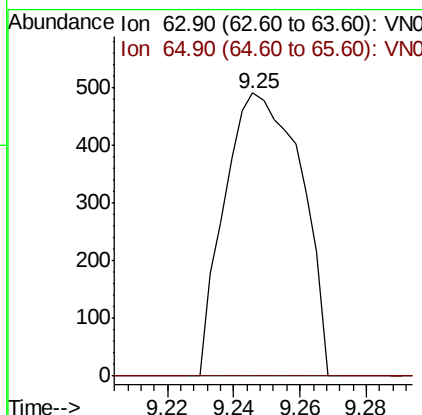
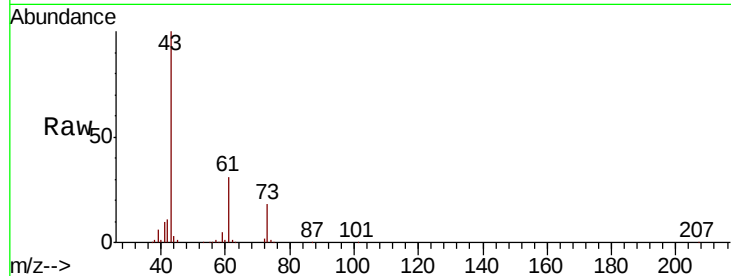




#45  
 1,2-Dichloropropane  
 Concen: 0.412 ug/l  
 RT: 9.25 min Scan# 2324  
 Delta R.T. 0.14 min  
 Lab File: VN059859.D  
 Acq: 24 Jan 2020 20:35

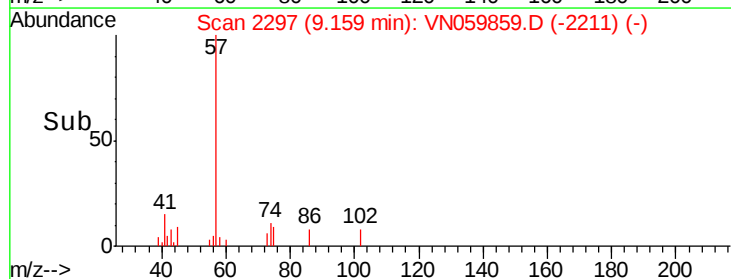
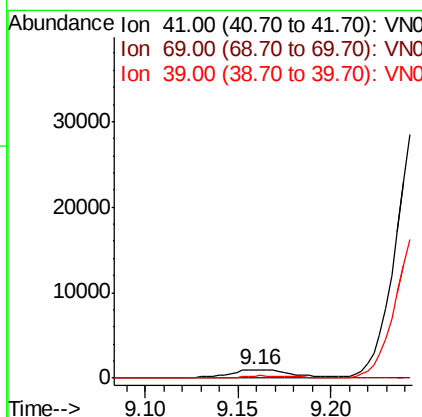
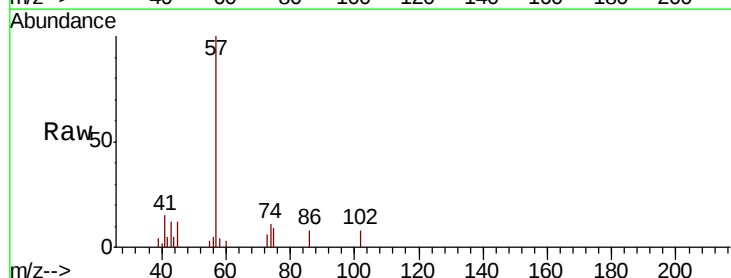
Instrument :  
 MSVOA\_N  
 ClientSampled :

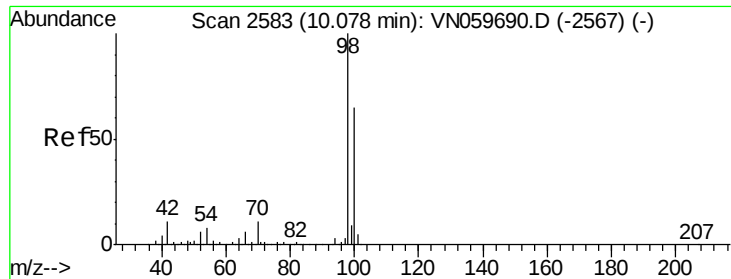
Tot Ion: 63 Resp: 783  
 Ion Ratio Lower Upper  
 63 100  
 65 0.0 24.9 37.3#



#48  
 Methyl methacrylate  
 Concen: 1.285 ug/l  
 RT: 9.16 min Scan# 2297  
 Delta R.T. -0.02 min  
 Lab File: VN059859.D  
 Acq: 24 Jan 2020 20:35

Tgt Ion: 41 Resp: 2386  
 Ion Ratio Lower Upper  
 41 100  
 69 0.0 64.4 96.6#  
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 51.073 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :

MSVOA\_N

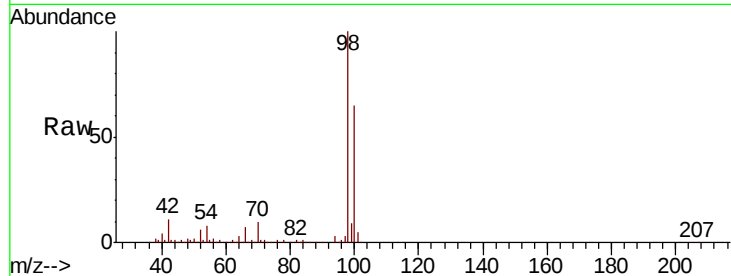
ClientSampleId :

Tot Ion: 98 Resp: 348566

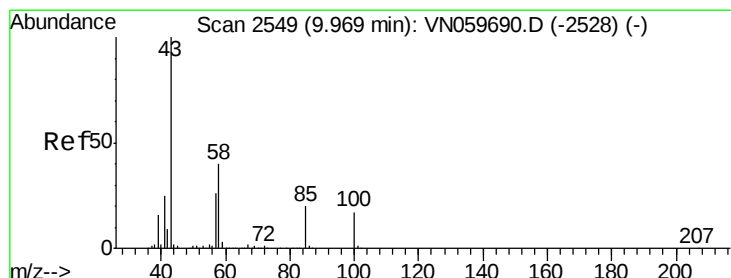
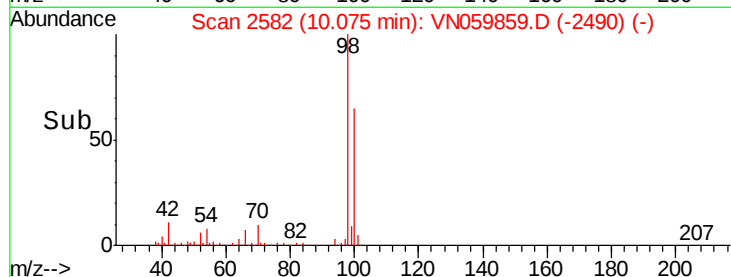
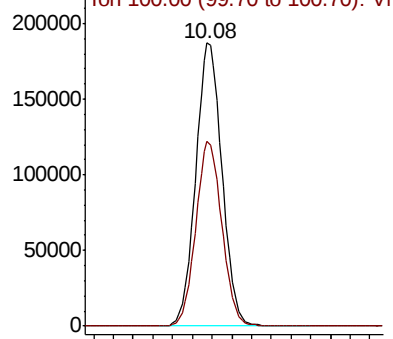
Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.115 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN059859.D

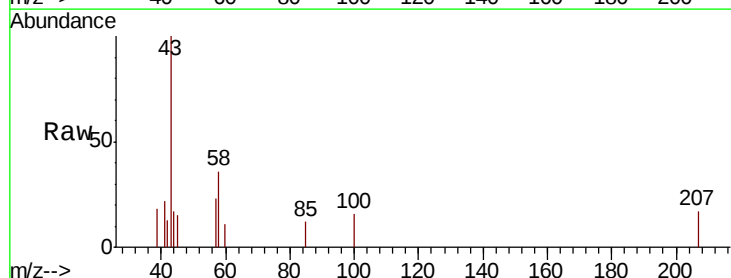
Acq: 24 Jan 2020 20:35

Tgt Ion: 43 Resp: 2674

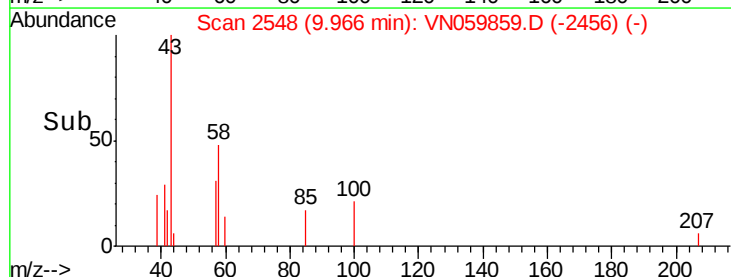
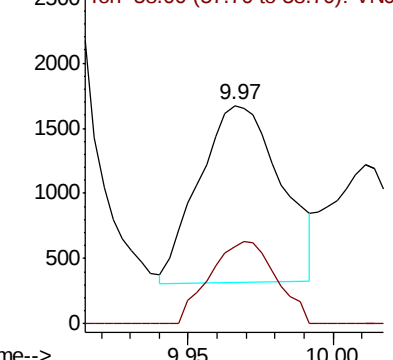
Ion Ratio Lower Upper

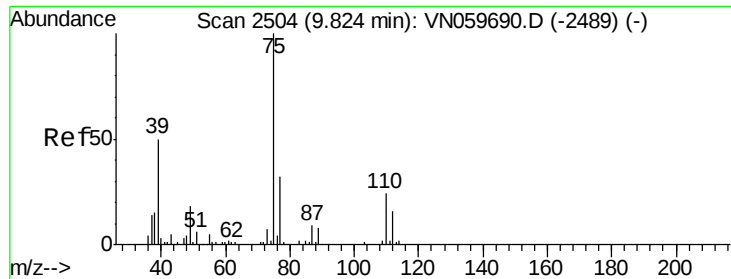
43 100

58 37.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.246 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :

MSVOA\_N

ClientSampleId :

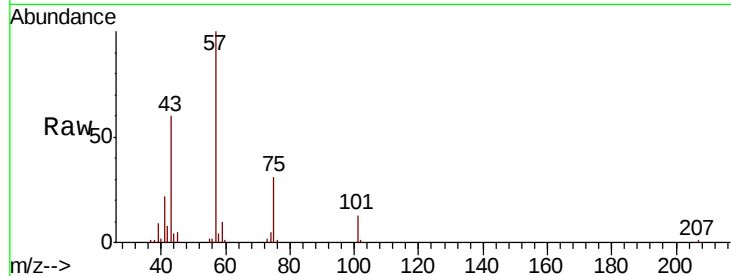
Tot Ion: 75 Resp: 19803

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

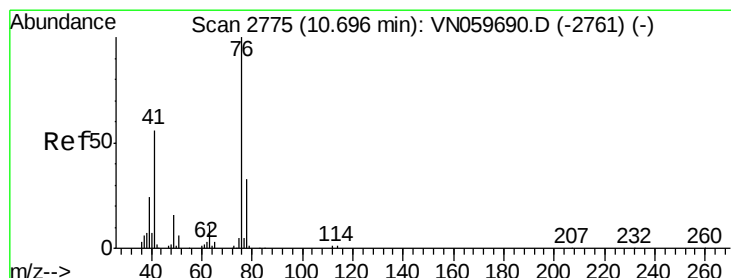
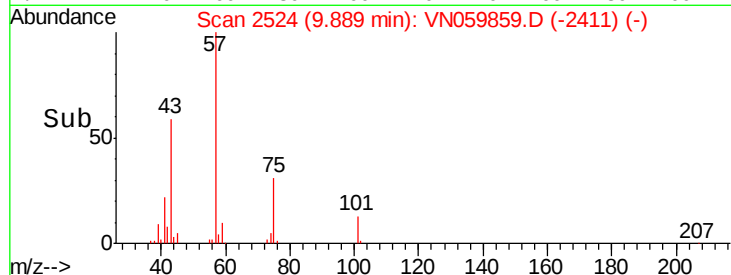
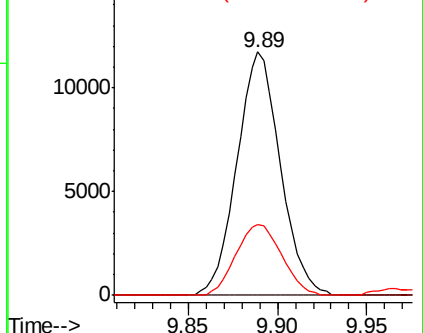
39 29.3 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.047 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059859.D

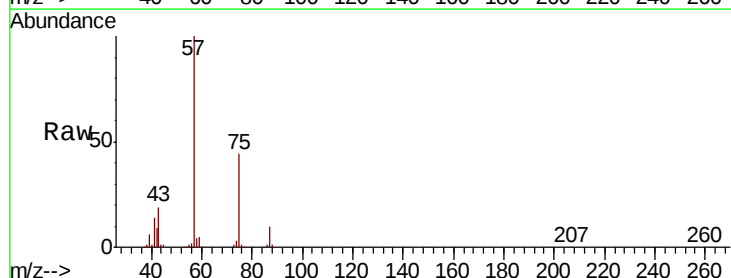
Acq: 24 Jan 2020 20:35

Tgt Ion: 76 Resp: 3189

Ion Ratio Lower Upper

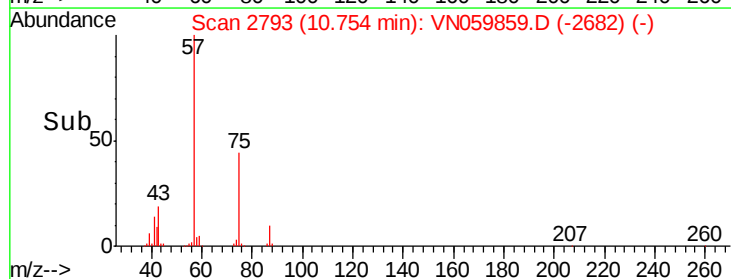
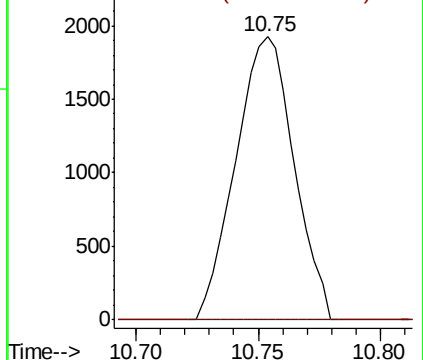
76 100

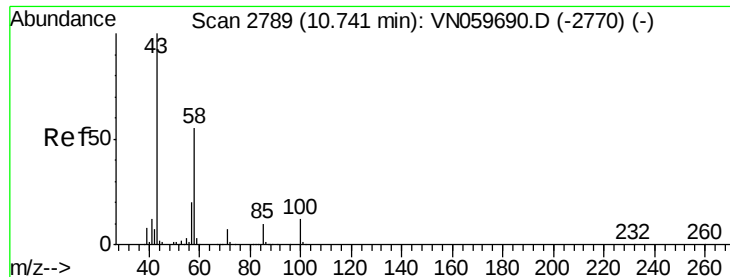
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

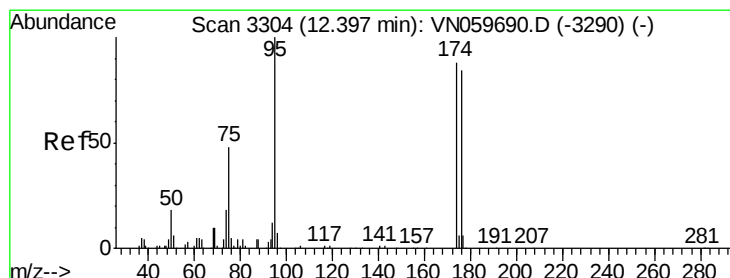
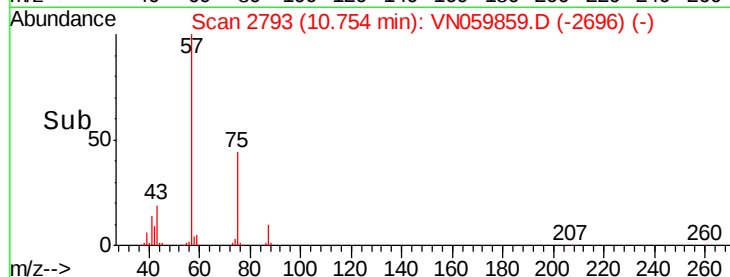
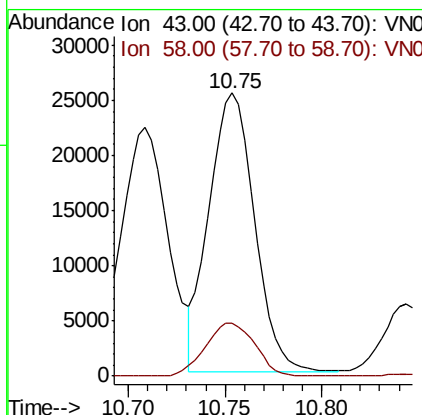
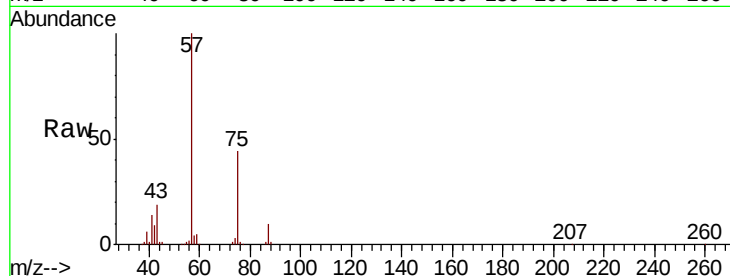




#59  
2-Hexanone  
Concen: 23.512 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN059859.D  
Acq: 24 Jan 2020 20:35

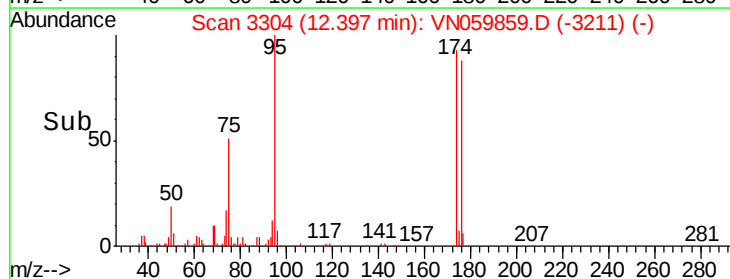
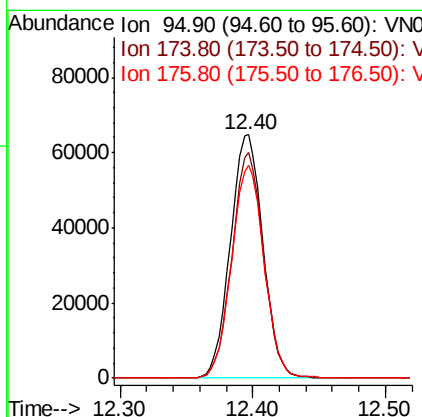
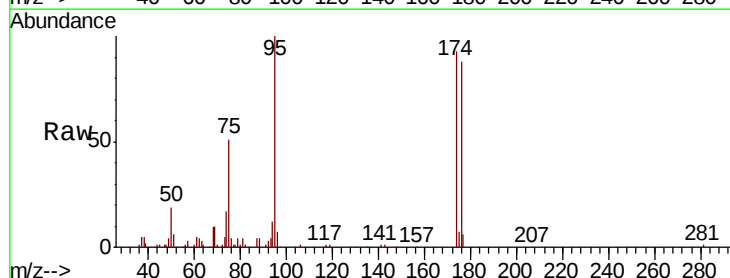
Instrument :  
MSVOA\_N  
ClientSampled :

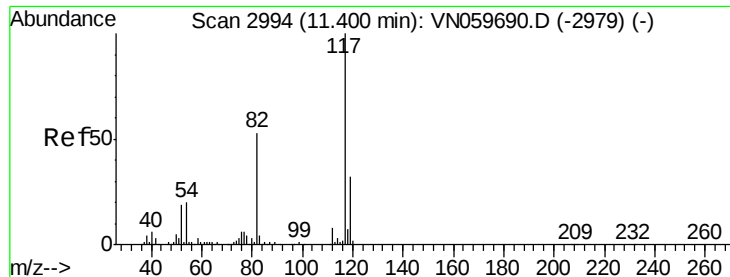
Tot Ion: 43 Resp: 41551  
Ion Ratio Lower Upper  
43 100  
58 20.5 25.8 77.3#



#62  
4-Bromofluorobenzene  
Concen: 44.911 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN059859.D  
Acq: 24 Jan 2020 20:35

Tgt Ion: 95 Resp: 110498  
Ion Ratio Lower Upper  
95 100  
174 89.8 0.0 151.4  
176 87.0 0.0 146.0

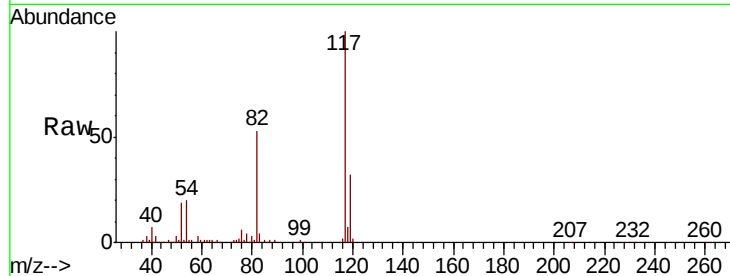




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2993  
Delta R.T. -0.00 min  
Lab File: VN059859.D  
Acq: 24 Jan 2020 20:35

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.3  | 45.9  | 68.9  |
| 119     | 32.5  | 25.5  | 38.3  |

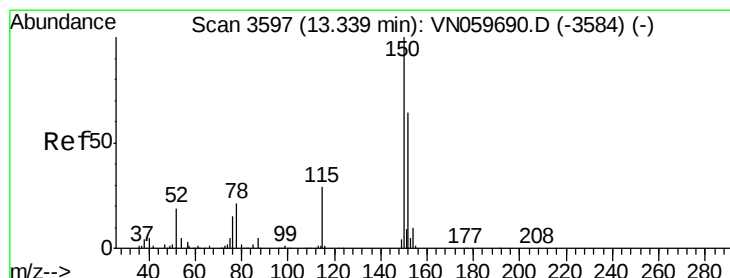
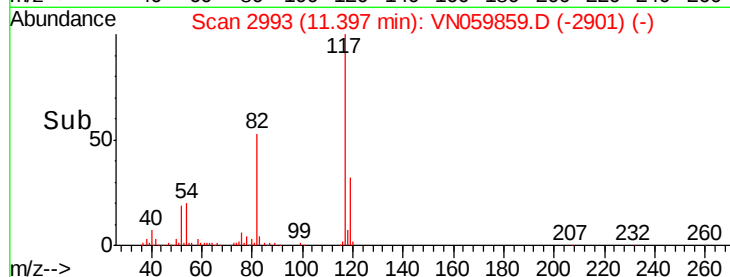
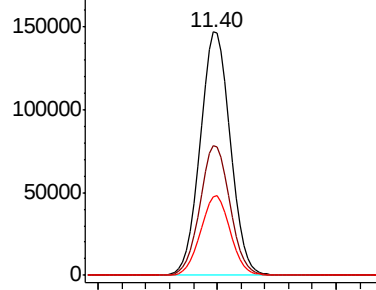


Abundance

Ion 116.90 (116.60 to 117.60): V

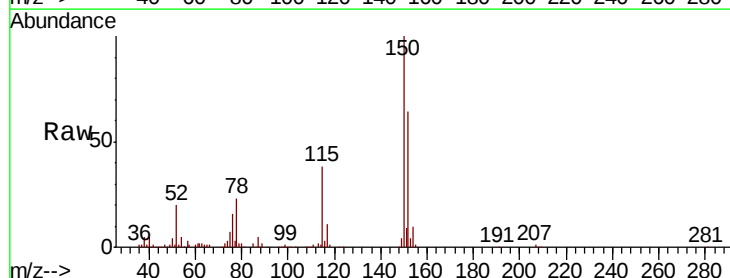
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3596  
Delta R.T. -0.00 min  
Lab File: VN059859.D  
Acq: 24 Jan 2020 20:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.7  | 30.3  | 90.9  |
| 150     | 156.4 | 0.0   | 345.2 |

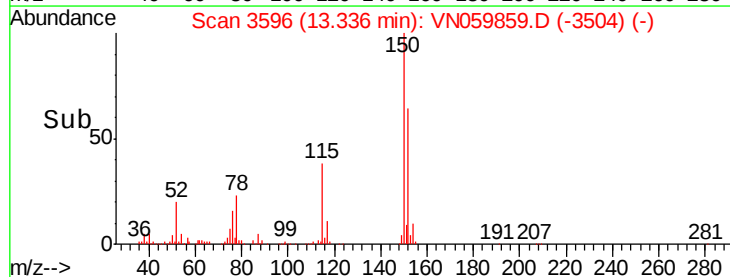
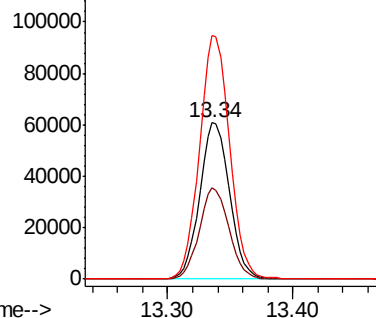


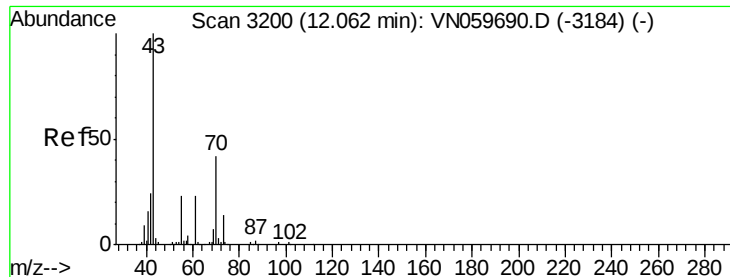
Abundance

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-amvl acetate

Concen: 0.722 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 43 Resp: 2070

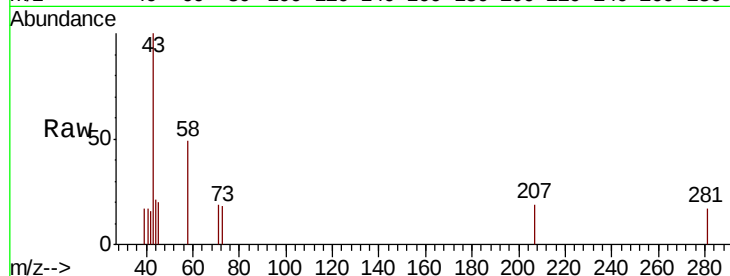
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

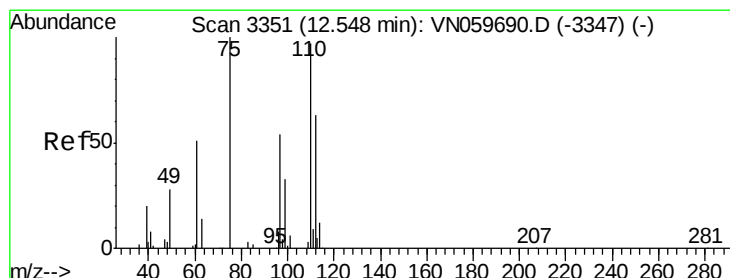
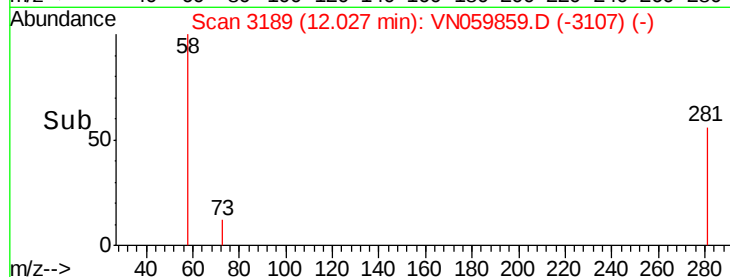
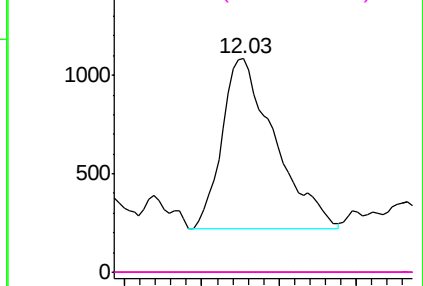


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 33.155 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059859.D

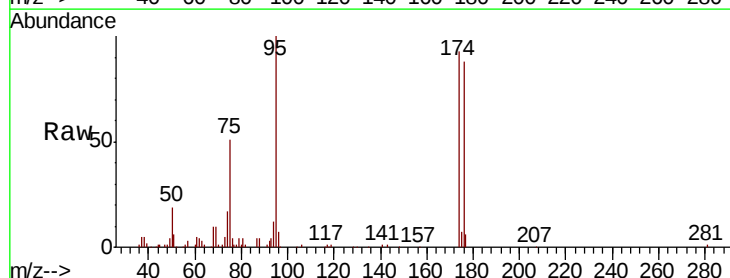
Acq: 24 Jan 2020 20:35

Tgt Ion: 75 Resp: 56184

Ion Ratio Lower Upper

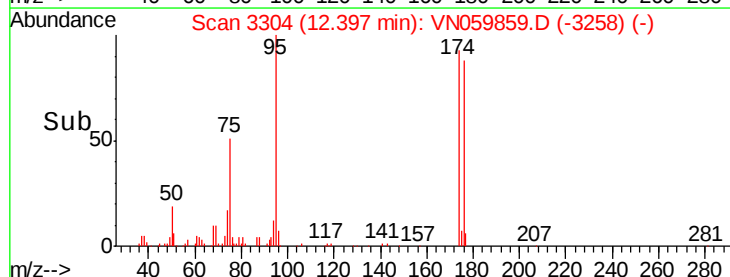
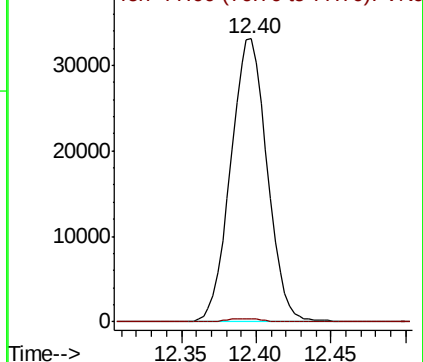
75 100

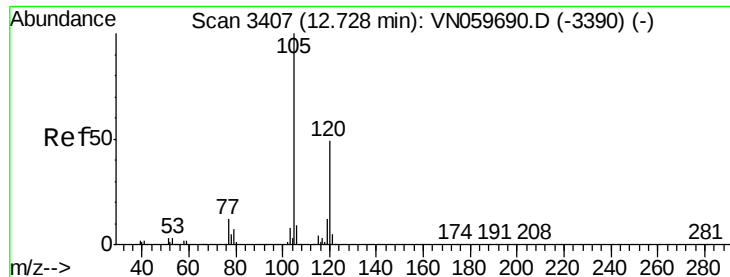
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.381 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :

MSVOA\_N

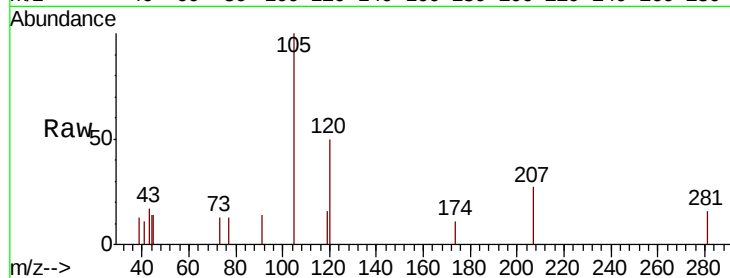
ClientSampleId :

Tot Ion: 105 Resp: 2369

Ion Ratio Lower Upper

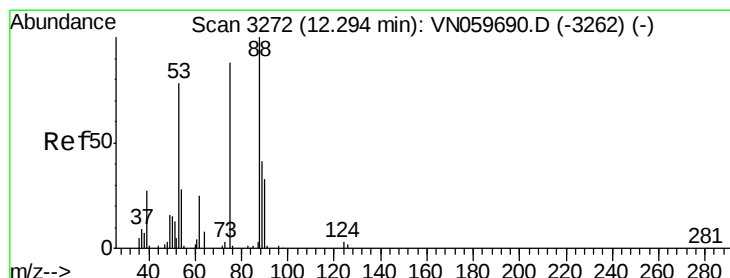
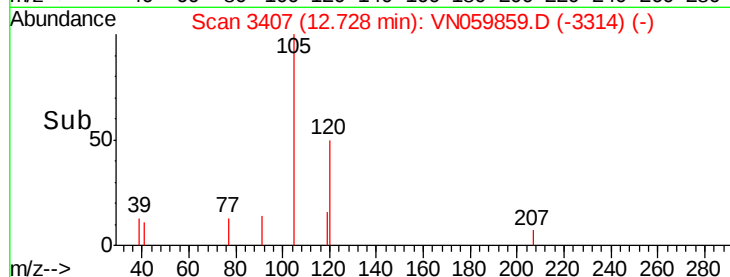
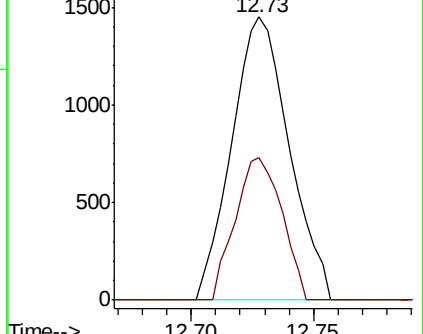
105 100

120 40.8 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 71.202 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

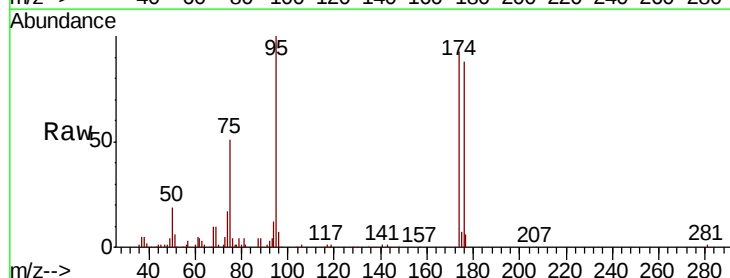
Tgt Ion: 75 Resp: 56184

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

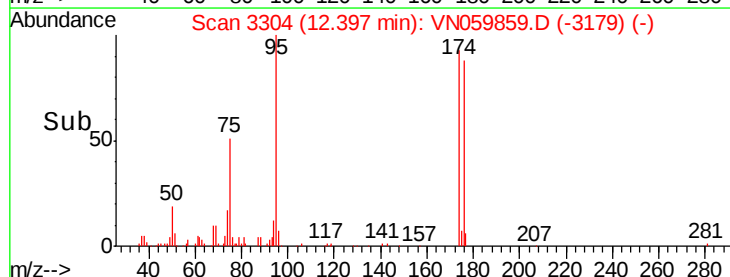
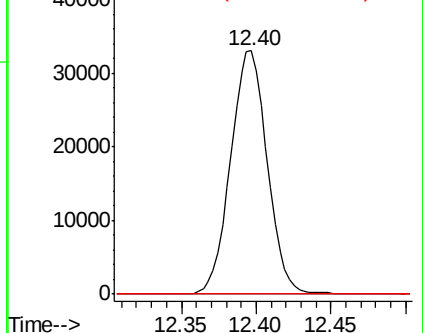
89 0.0 35.4 53.2#

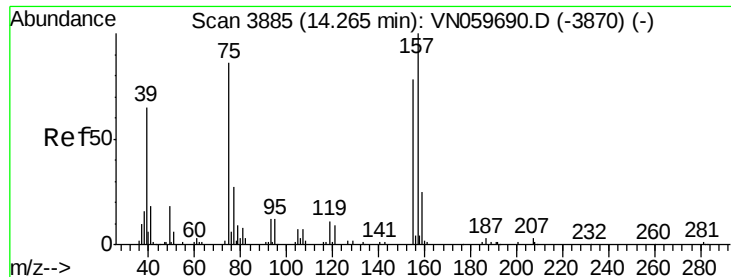


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VN059859.D

Acq: 24 Jan 2020 20:35

Instrument :

MSVOA\_N

ClientSampleId :

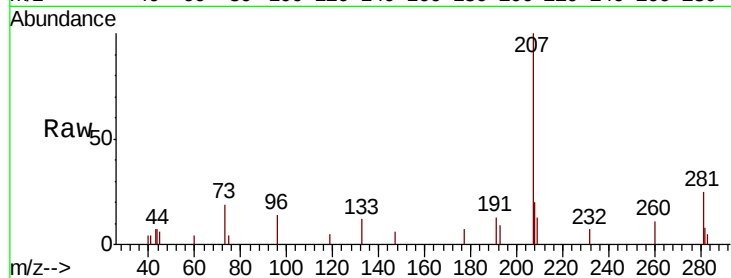
Tot Ion: 75 Resp: 31

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

