

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\  
 Data File : VN060940.D  
 Acq On : 14 Apr 2020 17:45  
 Operator : JC/MD  
 Sample : L2243-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-34-33-COMP

Quant Time: Apr 15 07:48:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 152009   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 260574   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 245144   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 111098   | 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   | 100535   | 48.18  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.36%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 77353    | 49.09  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.18%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 324810   | 50.47  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.94% |          |
| 62) 4-Bromofluorobenzene    | 12.39 | 95   | 122324   | 51.86  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.72% |          |

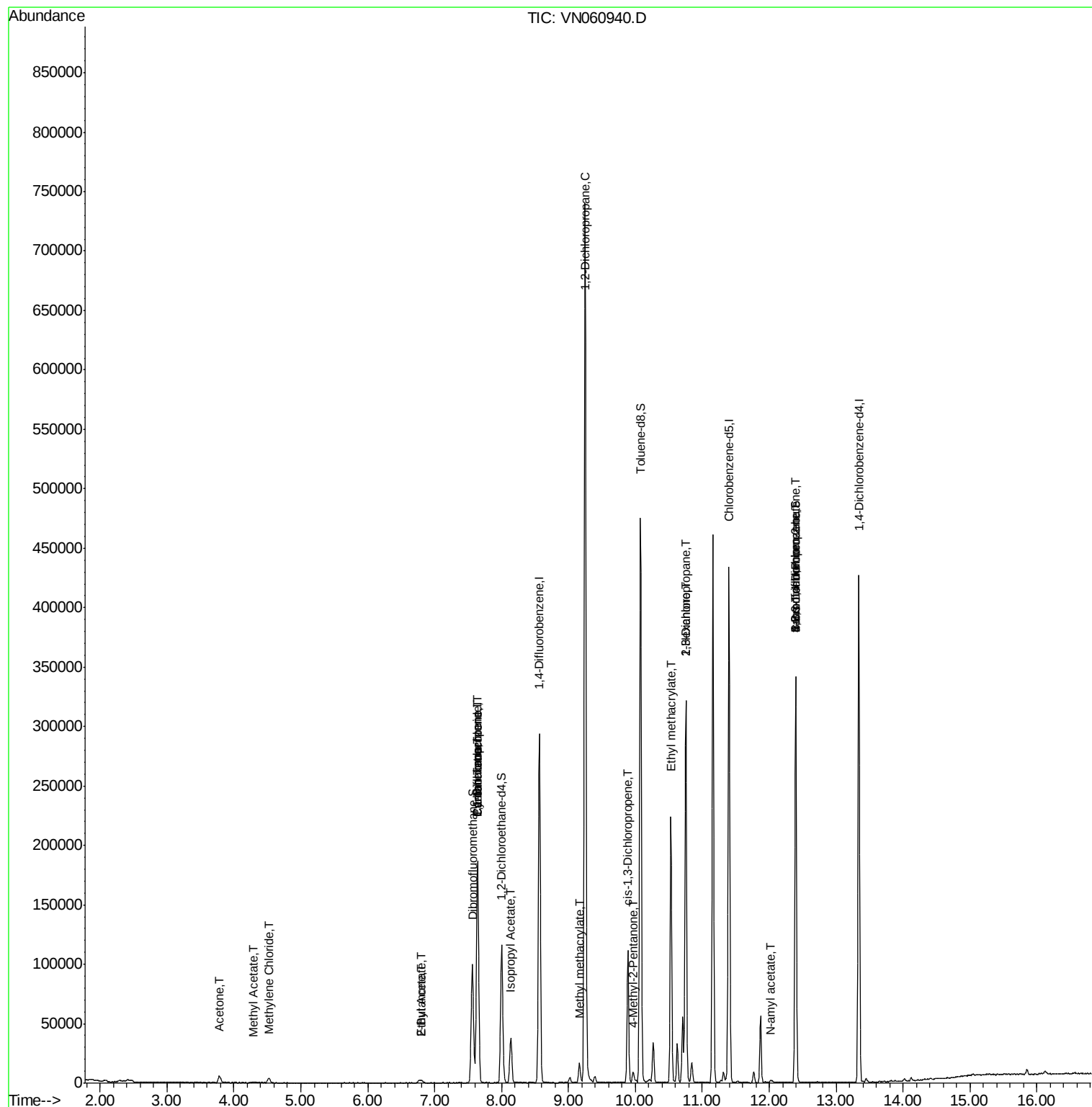
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.78  | 43   | 11050    | 14.949 | ug/l   | 98     |
| 18) Methyl Acetate             | 4.30  | 43   | 1709     | 0.821  | ug/l # | 54     |
| 20) Methylene Chloride         | 4.52  | 84   | 3002     | 1.651  | ug/l   | 97     |
| 25) 2-Butanone                 | 6.81  | 43   | 3339     | 2.792  | ug/l   | 96     |
| 31) Cyclohexane                | 7.64  | 56   | 3170     | 0.943  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 12417    | 4.921  | ug/l # | 49     |
| 37) Ethyl Acetate              | 6.81  | 43   | 3339     | 1.225  | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 14730    | 6.514  | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 46360    | 10.311 | ug/l # | 91     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 742      | 0.369  | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.16  | 41   | 2199     | 1.098  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 6285     | 2.456  | ug/l   | 98     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 19837    | 6.235  | ug/l # | 61     |
| 56) Ethyl methacrylate         | 10.53 | 69   | 557      | 0.202  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 3055     | 0.995  | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.75 | 43   | 46748    | 25.364 | ug/l # | 53     |
| 71) Bromoform                  | 12.39 | 173  | 741      | 2.170  | ug/l # | 1      |
| 74) N-amyl acetate             | 12.02 | 43   | 3011     | 0.782  | ug/l # | 45     |
| 76) 1,2,3-Trichloropropane     | 12.39 | 75   | 62514    | 26.077 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 62514    | 66.974 | ug/l # | 13     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN041420\  
Data File : VN060940.D  
Acq On : 14 Apr 2020 17:45  
Operator : JC/MD  
Sample : L2243-06  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

Quant Time: Apr 15 07:48:22 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 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: VN060940.D

Acq: 14 Apr 2020 17:45

Instrument :

MSVOA\_N

ClientSampleId :

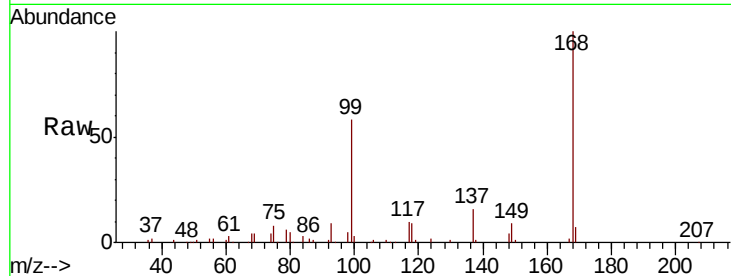
TP-34-33-COMP

Tot Ion:168 Resp: 152009

Ion Ratio Lower Upper

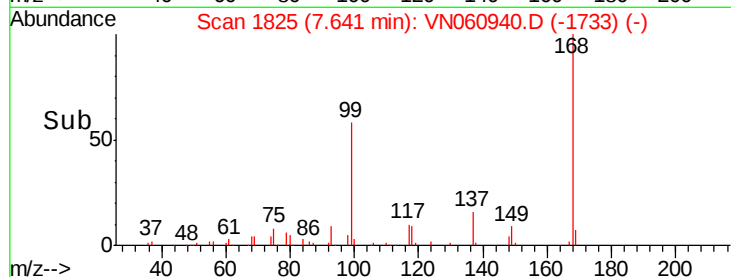
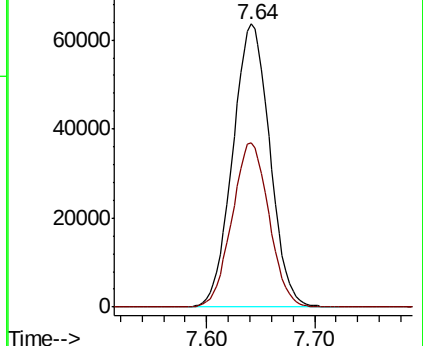
168 100

99 58.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 14.949 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060940.D

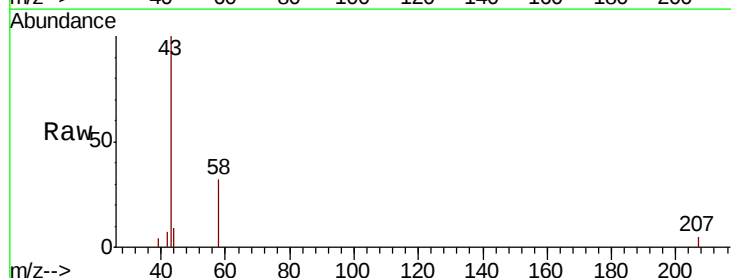
Acq: 14 Apr 2020 17:45

Tgt Ion: 43 Resp: 11050

Ion Ratio Lower Upper

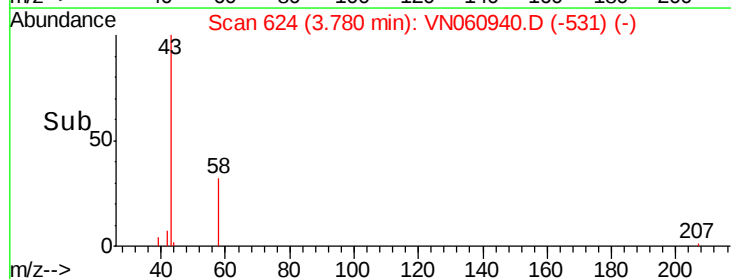
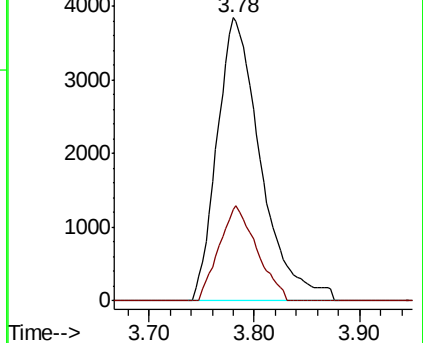
43 100

58 32.3 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

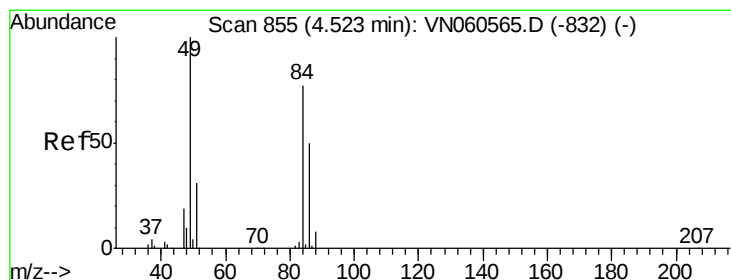
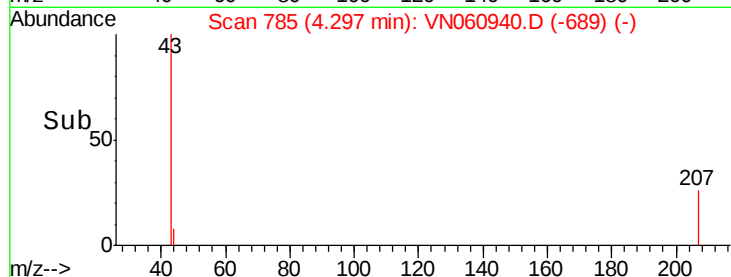
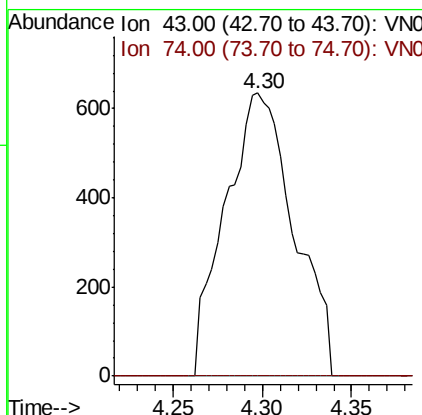
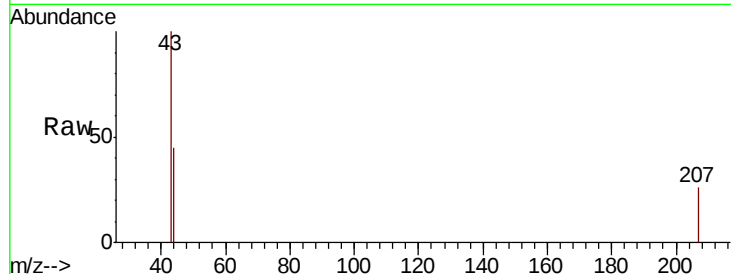




#18  
Methyl Acetate  
Concen: 0.821 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. 0.01 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

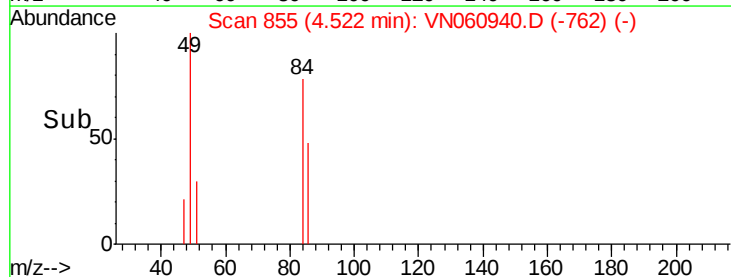
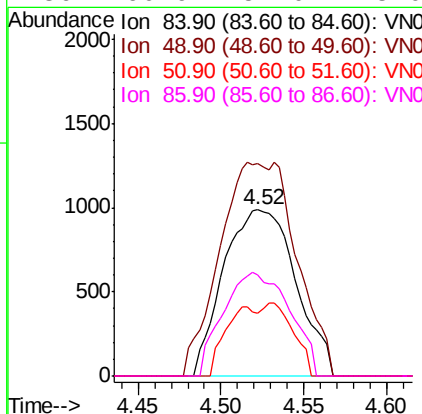
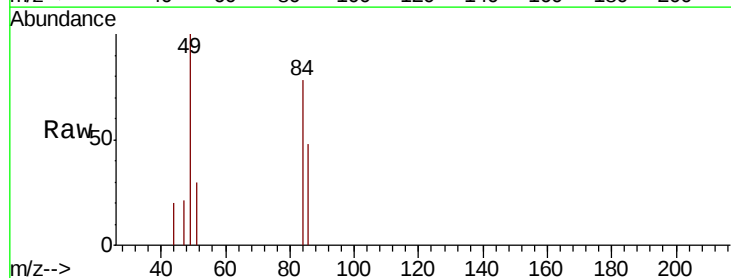
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

Tot Ion: 43 Resp: 1709  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.5 26.3#



#20  
Methylene Chloride  
Concen: 1.651 ug/l  
RT: 4.52 min Scan# 855  
Delta R.T. -0.00 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Tgt Ion: 84 Resp: 3002  
Ion Ratio Lower Upper  
84 100  
49 127.7 103.3 154.9  
51 38.0 31.6 47.4  
86 60.9 52.0 78.0

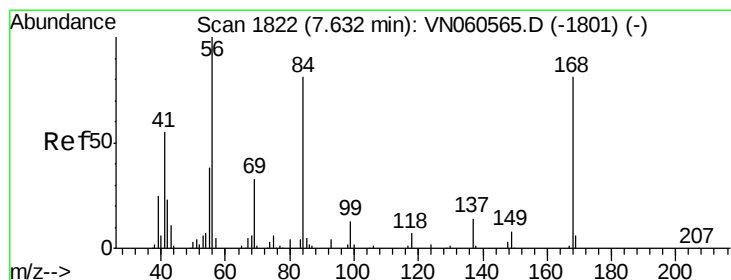
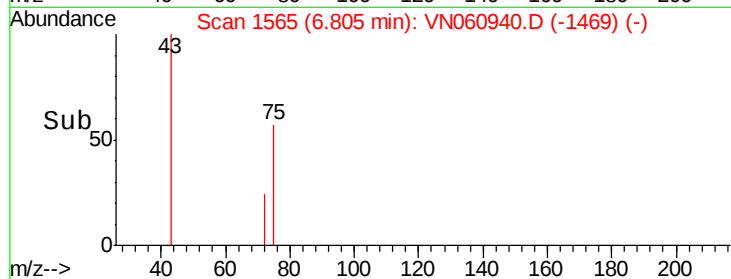
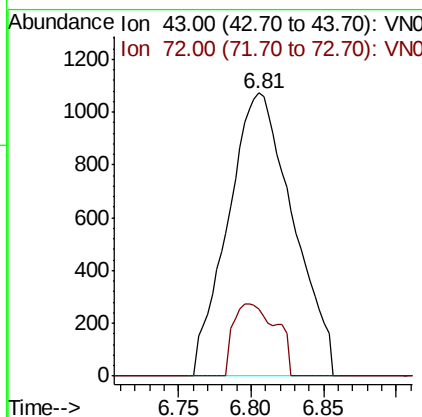
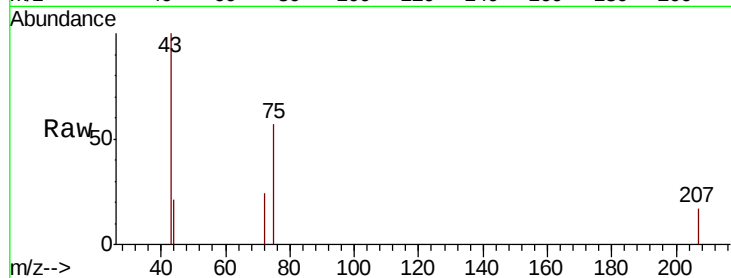




#25  
2-Butanone  
Concen: 2.792 ug/l  
RT: 6.81 min Scan# 1565  
Delta R.T. 0.01 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

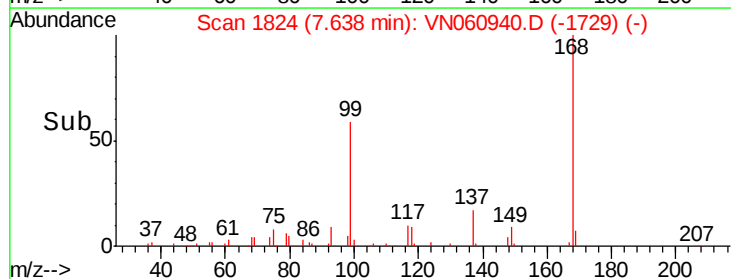
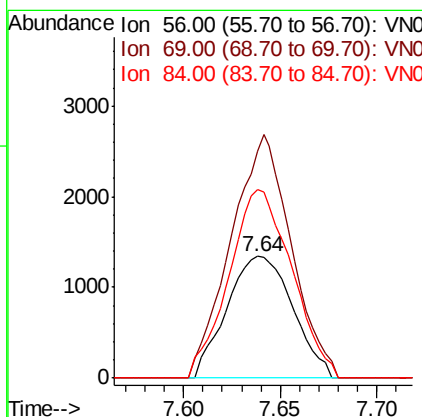
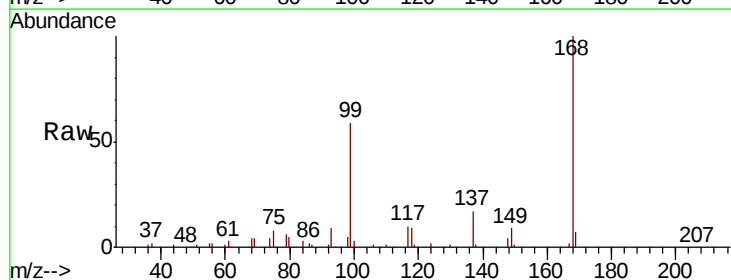
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

Tot Ion: 43 Resp: 3339  
Ion Ratio Lower Upper  
43 100  
72 23.5 20.4 30.6



#31  
Cyclohexane  
Concen: 0.943 ug/l  
RT: 7.64 min Scan# 1824  
Delta R.T. 0.01 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Tgt Ion: 56 Resp: 3170  
Ion Ratio Lower Upper  
56 100  
69 186.5 26.6 40.0#  
84 155.3 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 48.178 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

Instrument :

MSVOA\_N

ClientSampleId :

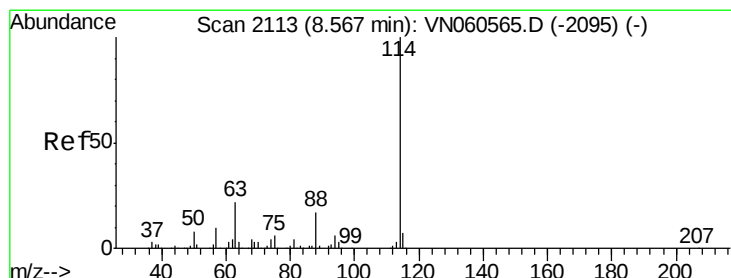
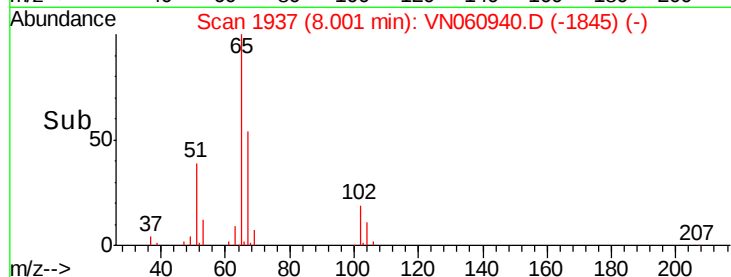
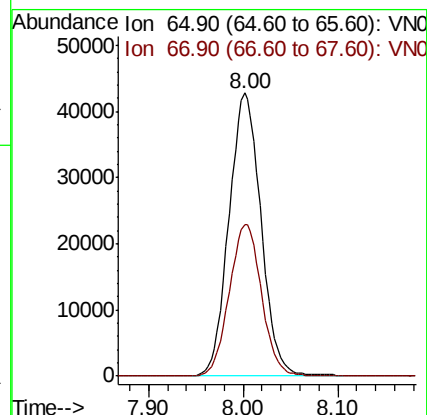
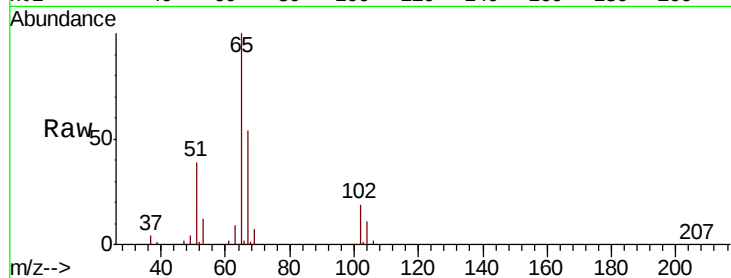
TP-34-33-COMP

Tot Ion: 65 Resp: 100535

Ion Ratio Lower Upper

65 100

67 53.9 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

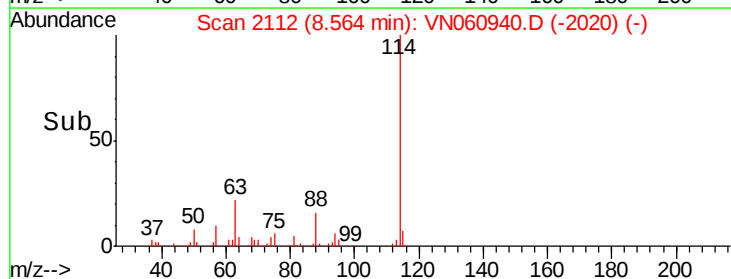
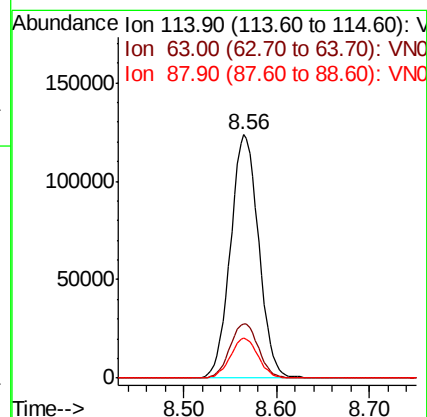
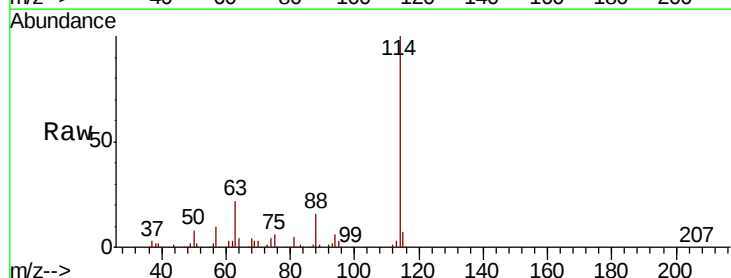
Tgt Ion: 114 Resp: 260574

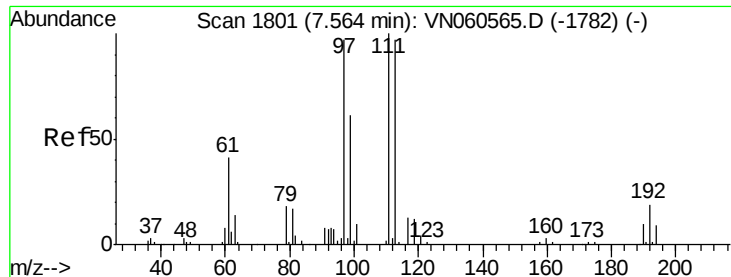
Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.8

88 16.4 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.094 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

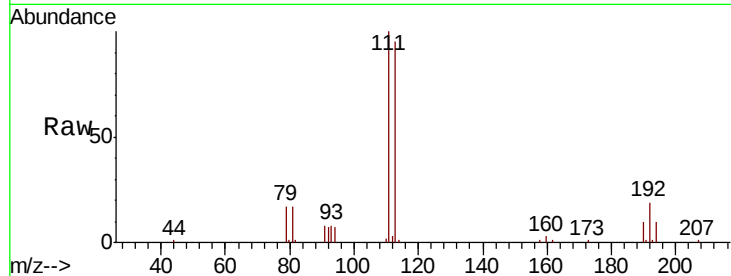
Tot Ion:113 Resp: 77353

Ion Ratio Lower Upper

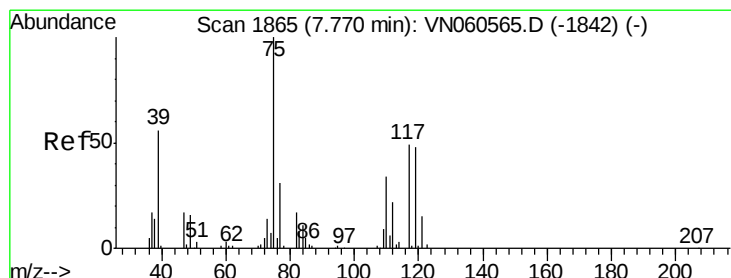
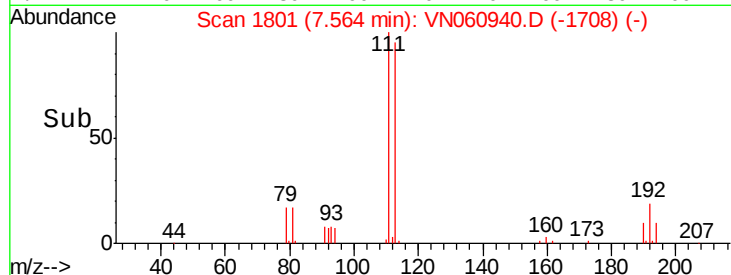
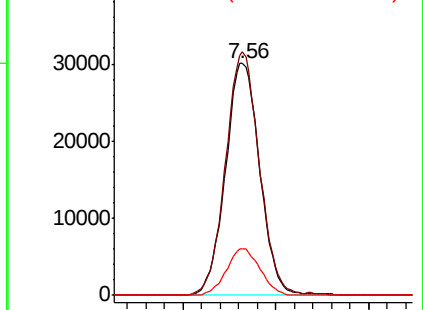
113 100

111 102.6 82.9 124.3

192 19.5 15.8 23.8



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: 4.921 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

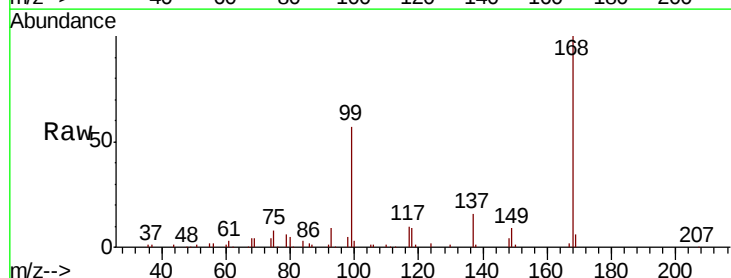
Tgt Ion: 75 Resp: 12417

Ion Ratio Lower Upper

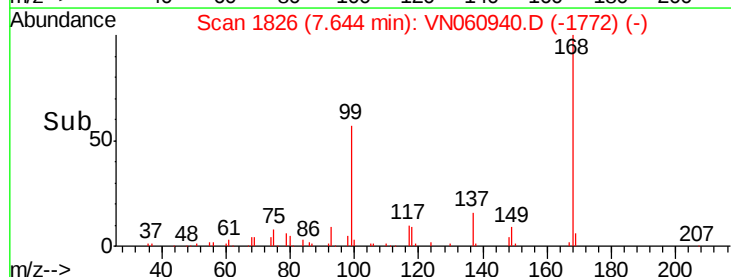
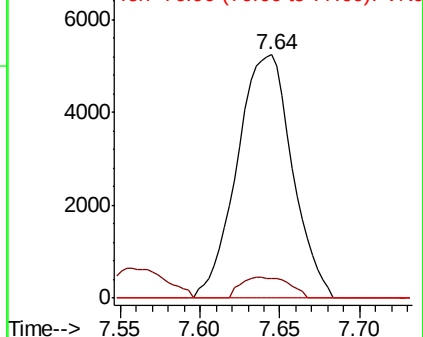
75 100

110 7.4 16.9 50.6#

77 0.0 24.6 36.8#



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

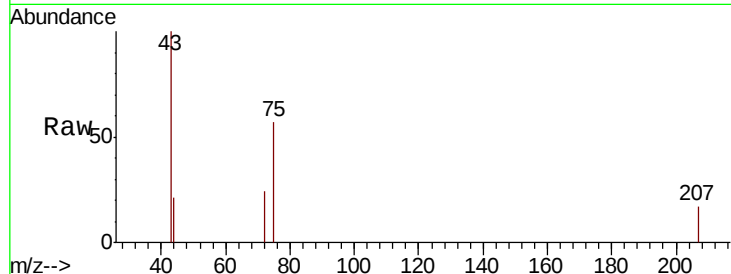




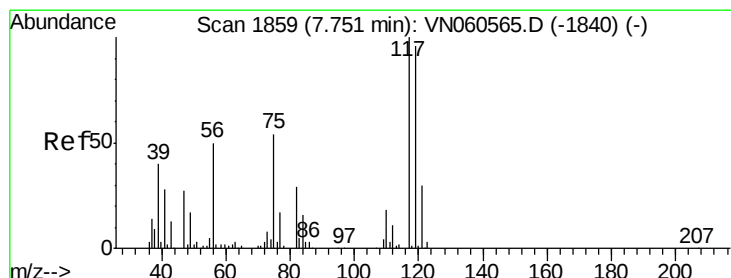
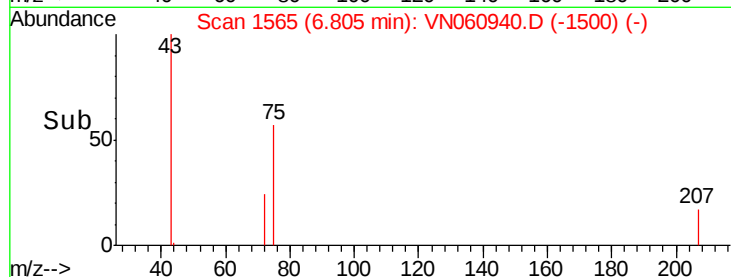
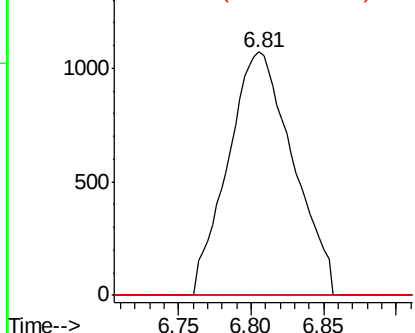
#37  
Ethyl Acetate  
Concen: 1.225 ug/l  
RT: 6.81 min Scan# 1565  
Delta R.T. -0.09 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

Tot Ion: 43 Resp: 3339  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 15.8#  
70 0.0 7.9 11.9#

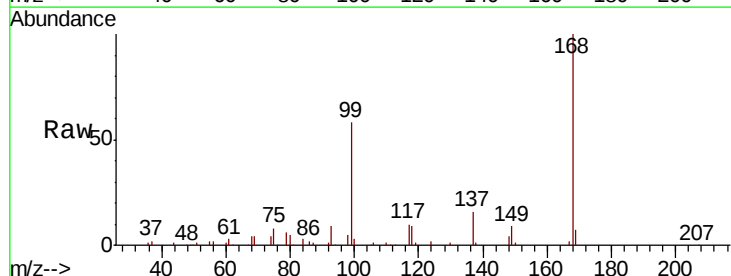


Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 70.00 (69.70 to 70.70): VN0

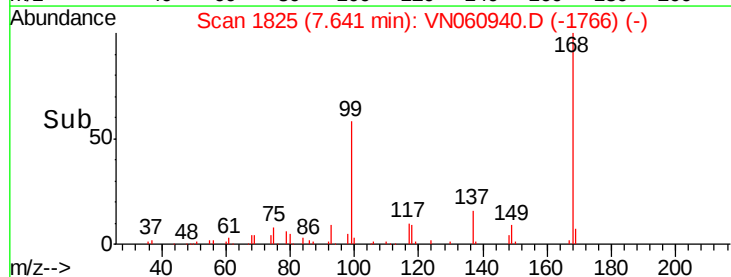
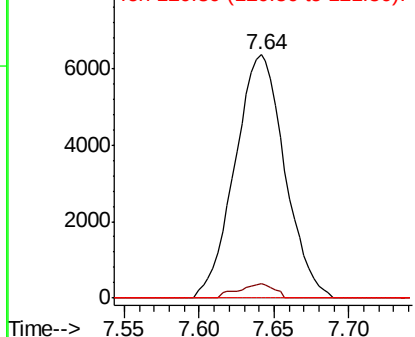


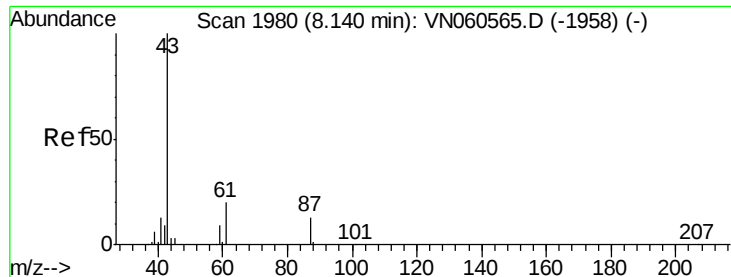
#38  
Carbon Tetrachloride  
Concen: 6.514 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. -0.11 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Tgt Ion: 117 Resp: 14730  
Ion Ratio Lower Upper  
117 100  
119 5.9 76.2 114.2#  
121 0.0 23.7 35.5#



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: 10.311 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

Instrument :

MSVOA\_N

ClientSampled :

TP-34-33-COMP

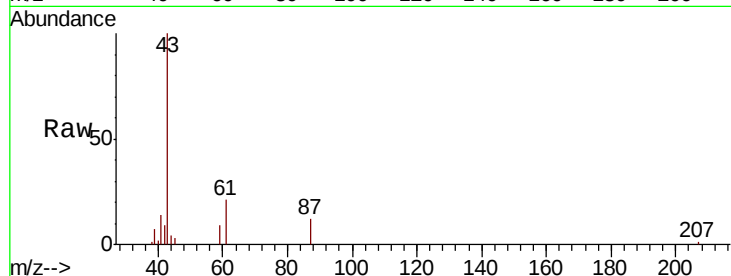
Tot Ion: 43 Resp: 46360

Ion Ratio Lower Upper

43 100

61 19.3 20.7 31.1#

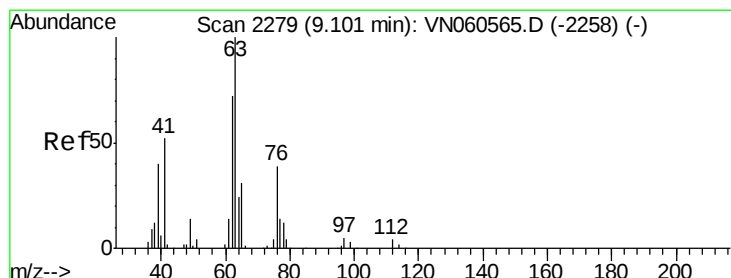
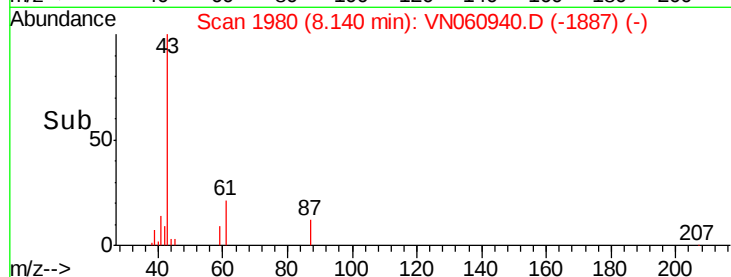
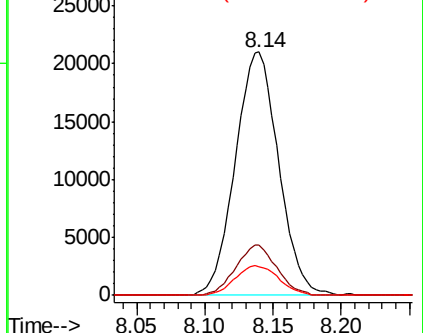
87 12.2 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060940.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060940.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060940.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.369 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060940.D

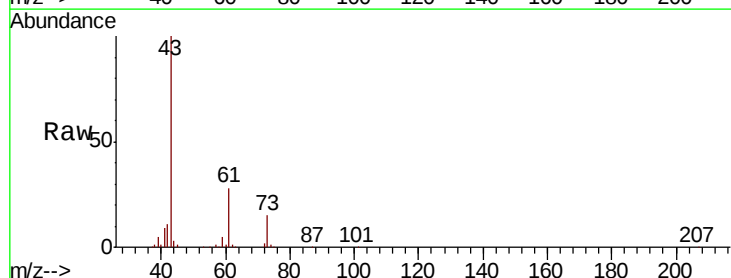
Acq: 14 Apr 2020 17:45

Tgt Ion: 63 Resp: 742

Ion Ratio Lower Upper

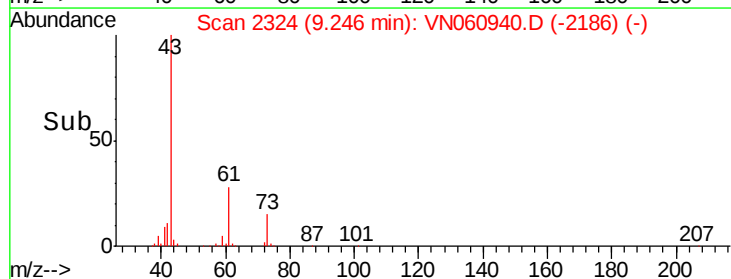
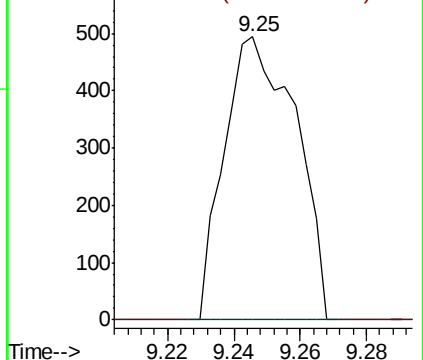
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060940.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060940.D (-2186) (-)

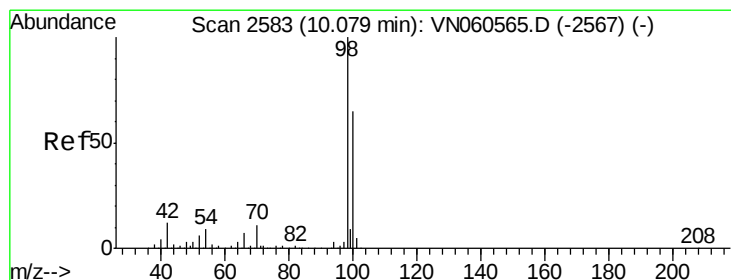
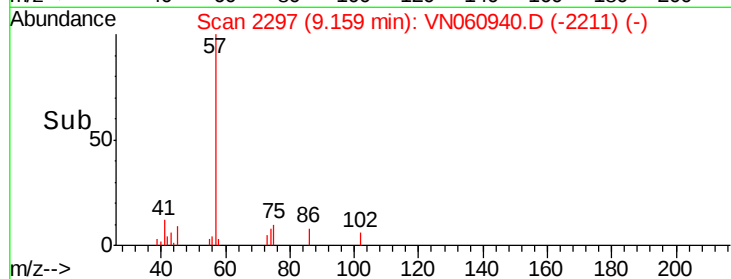
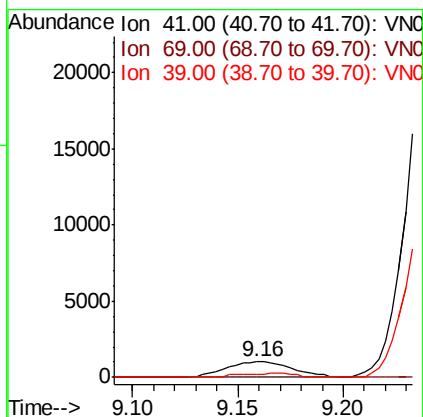
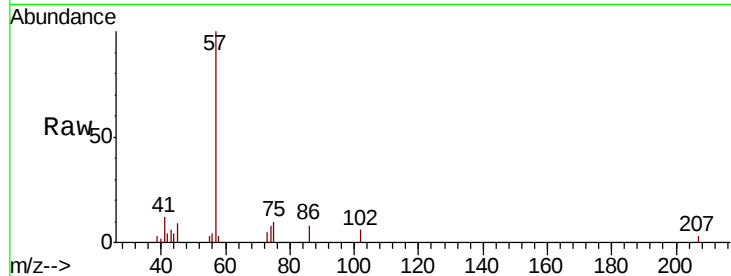




#48  
Methvl methacrylate  
Concen: 1.098 ug/l  
RT: 9.16 min Scan# 2297  
Delta R.T. -0.02 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

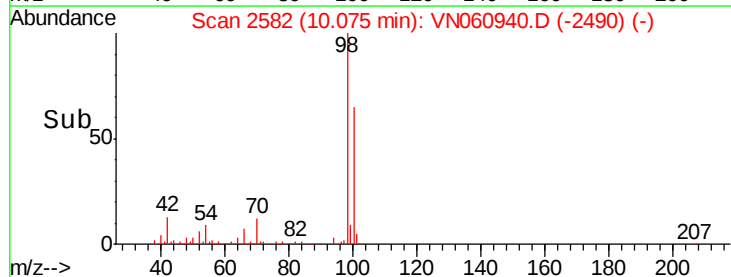
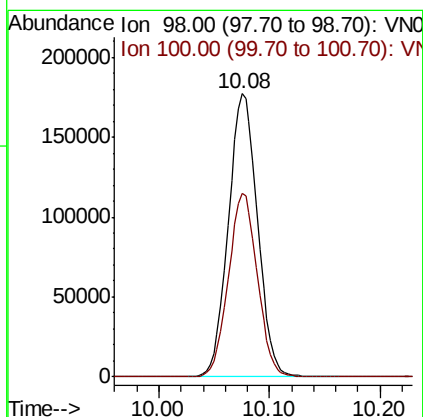
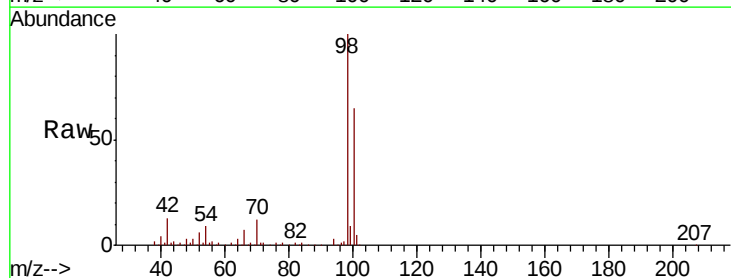
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

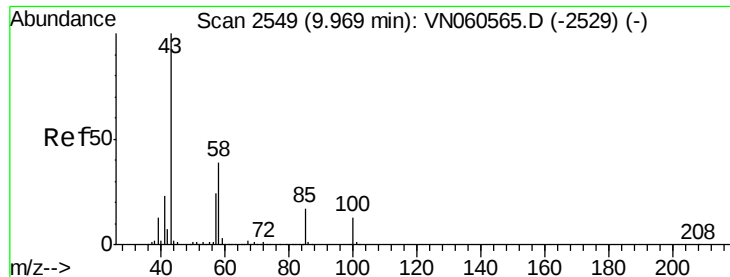
Tot Ion: 41 Resp: 2199  
Ion Ratio Lower Upper  
41 100  
69 0.0 65.4 98.0#  
39 0.0 44.0 66.0#



#50  
Toluene-d8  
Concen: 50.470 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. -0.00 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Tgt Ion: 98 Resp: 324810  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 2.456 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

Instrument :

MSVOA\_N

ClientSampleId :

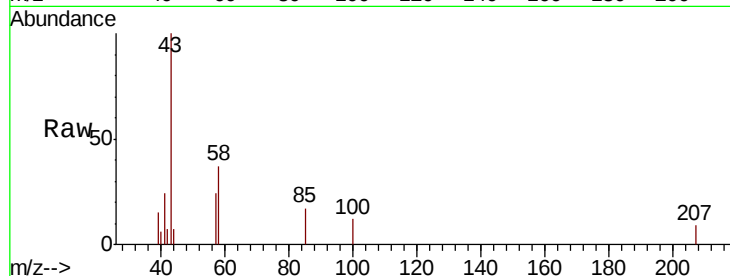
TP-34-33-COMP

Tot Ion: 43 Resp: 6285

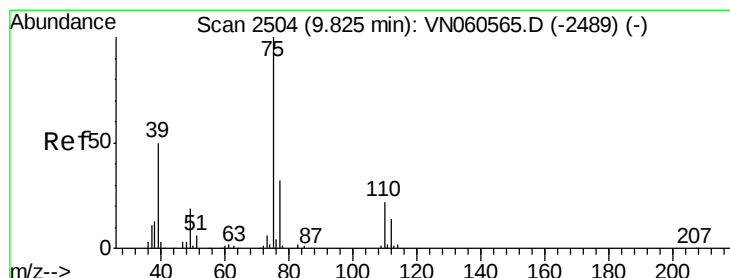
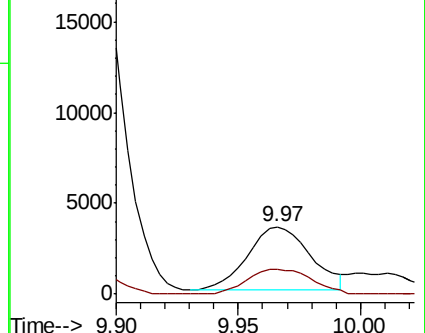
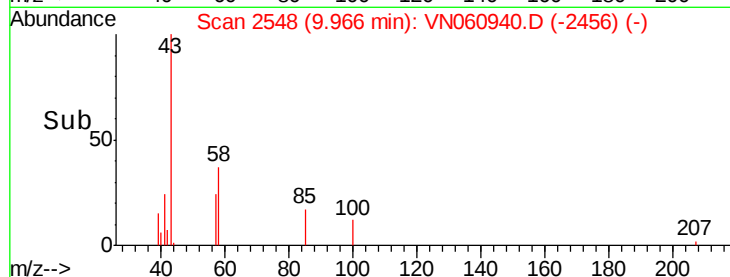
Ion Ratio Lower Upper

43 100

58 39.6 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060940.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.235 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

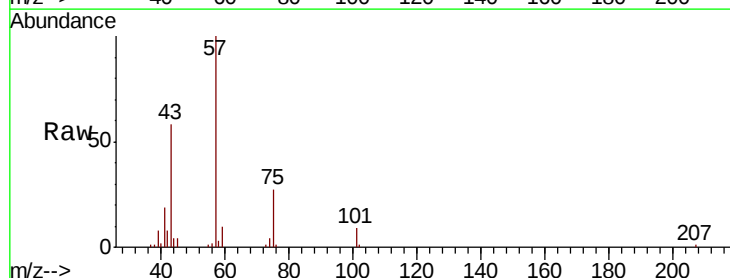
Tgt Ion: 75 Resp: 19837

Ion Ratio Lower Upper

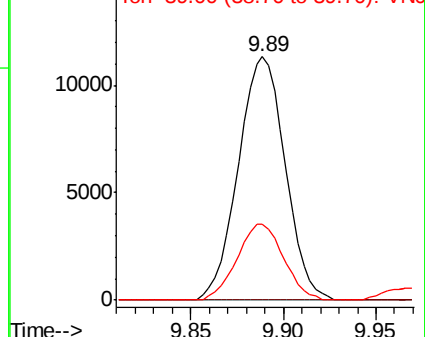
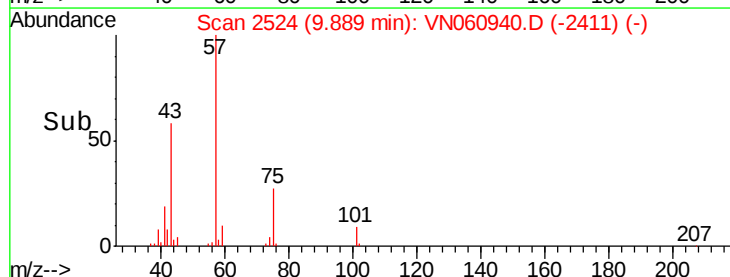
75 100

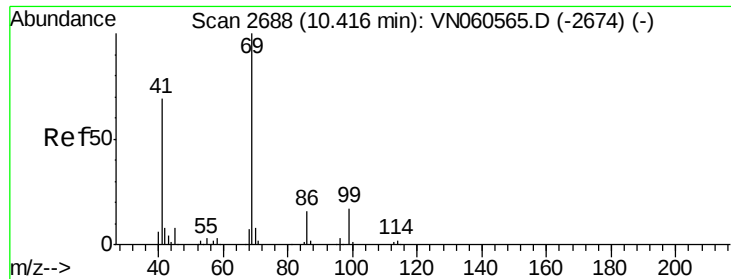
77 0.0 25.4 38.0#

39 31.3 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060940.D (-2411) (-)





#56

Ethyl methacrylate

Concen: 0.202 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. 0.11 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

Instrument :

MSVOA\_N

ClientSampleId :

TP-34-33-COMP

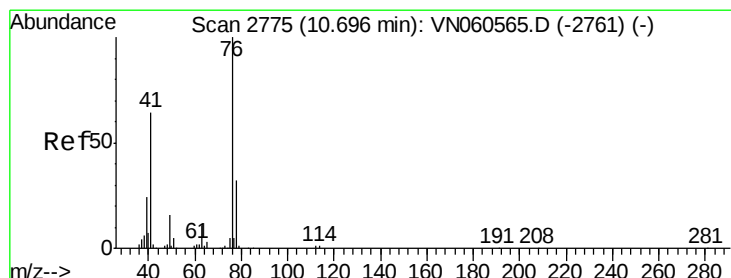
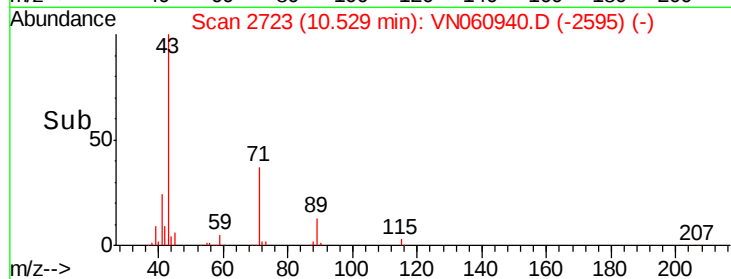
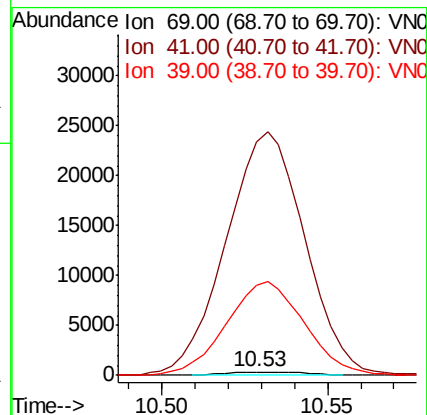
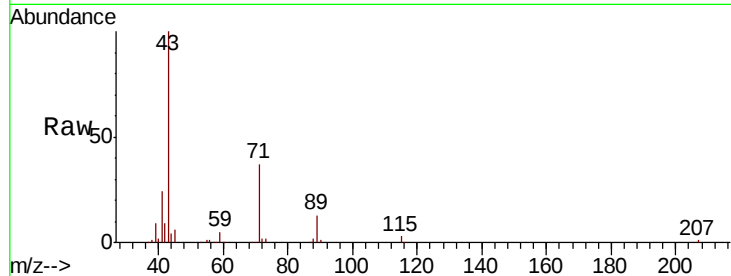
Tot Ion: 69 Resp: 557

Ion Ratio Lower Upper

69 100

41 7278.3 55.4 83.2#

39 2756.0 29.4 44.0#



#57

1,3-Dichloropropane

Concen: 0.995 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060940.D

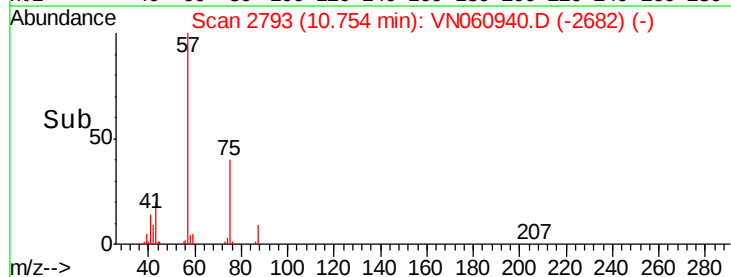
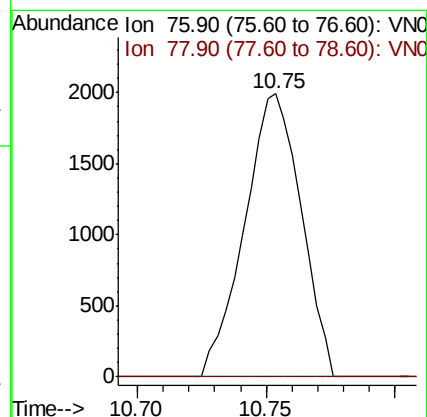
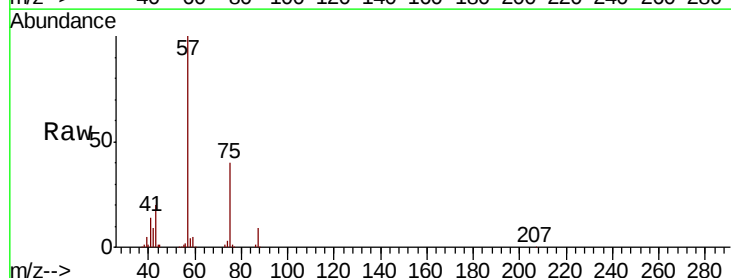
Acq: 14 Apr 2020 17:45

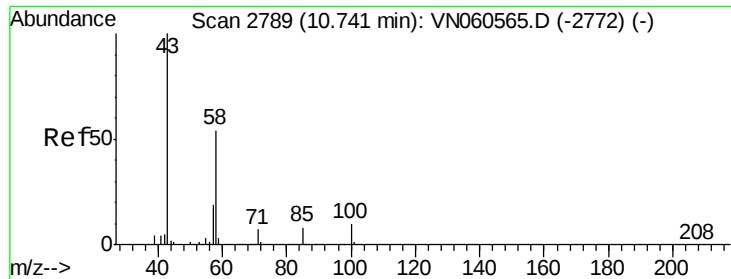
Tgt Ion: 76 Resp: 3055

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

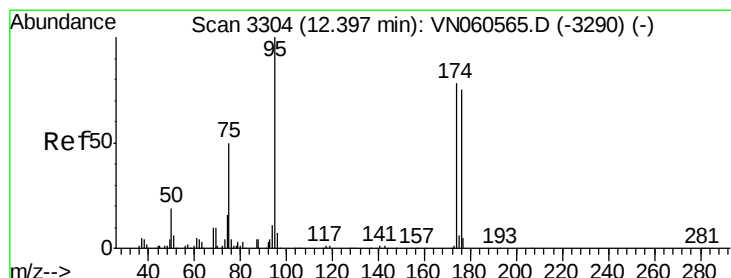
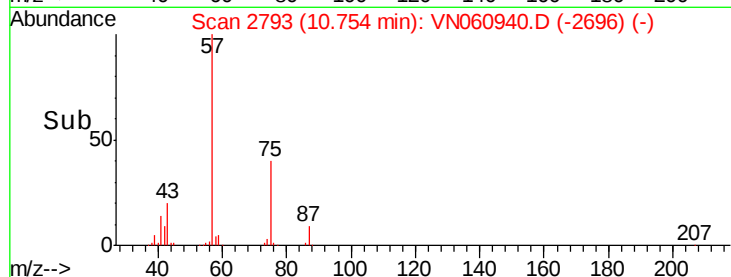
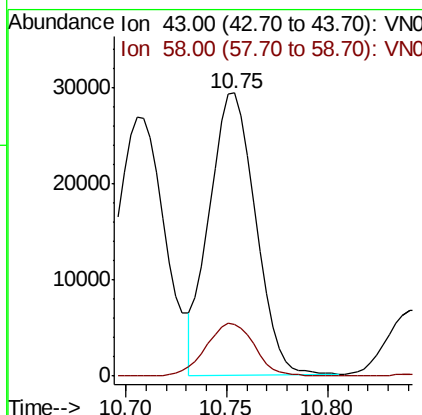
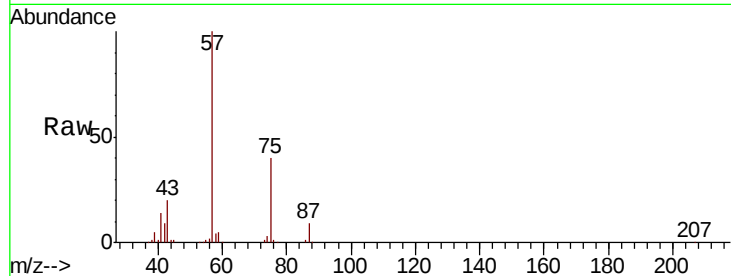




#59  
2-Hexanone  
Concen: 25.364 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

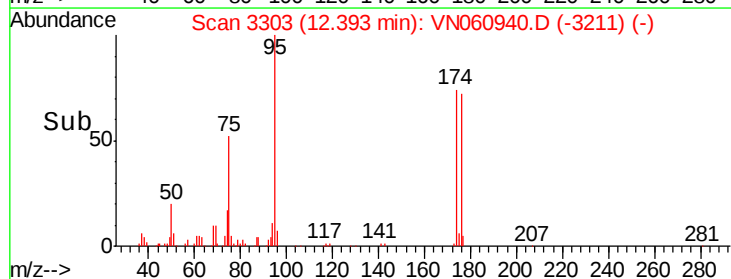
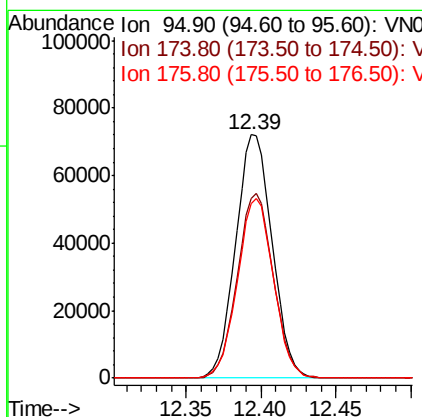
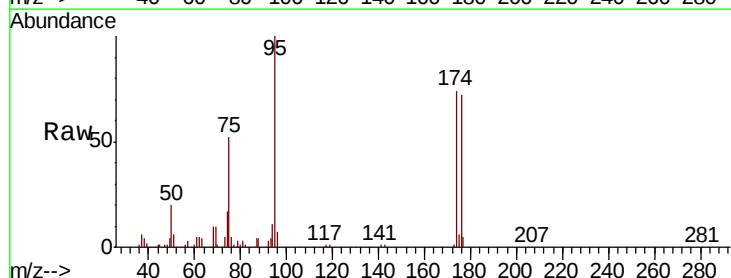
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

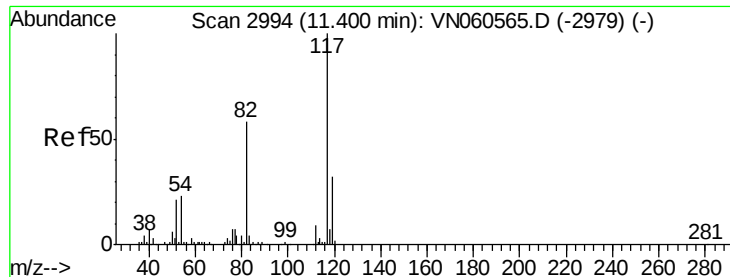
Tot Ion: 43 Resp: 46748  
Ion Ratio Lower Upper  
43 100  
58 19.7 26.7 80.1#



#62  
4-Bromofluorobenzene  
Concen: 51.863 ug/l  
RT: 12.39 min Scan# 3303  
Delta R.T. -0.00 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Tgt Ion: 95 Resp: 122324  
Ion Ratio Lower Upper  
95 100  
174 74.8 0.0 157.6  
176 72.8 0.0 150.6

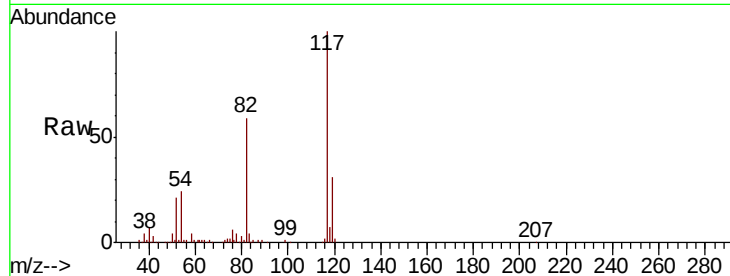




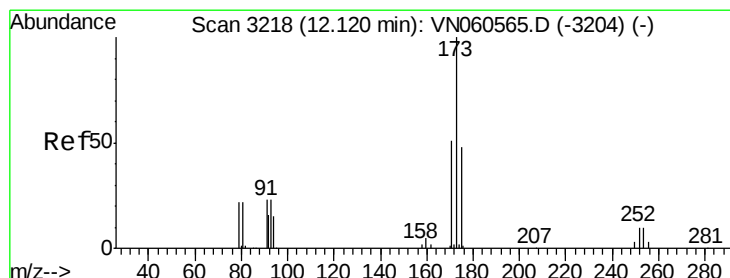
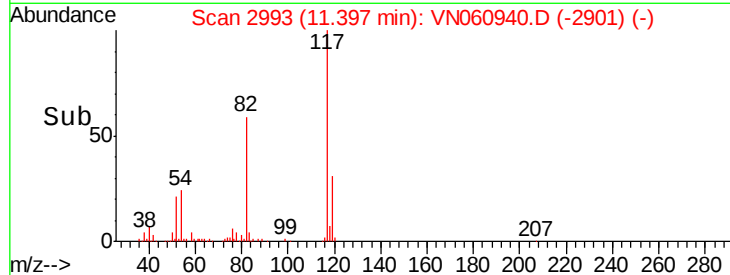
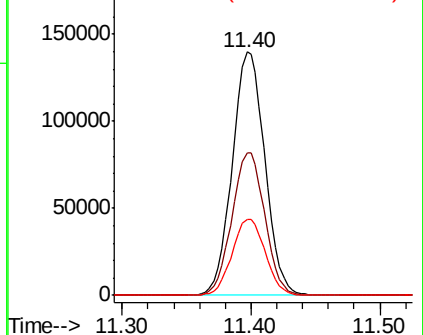
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2993  
Delta R.T. -0.00 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-34-33-COMP

Tot Ion:117 Resp: 245144  
Ion Ratio Lower Upper  
117 100  
82 58.8 46.7 70.1  
119 31.4 25.5 38.3

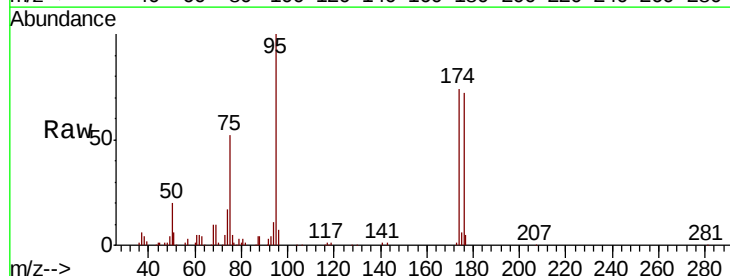


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

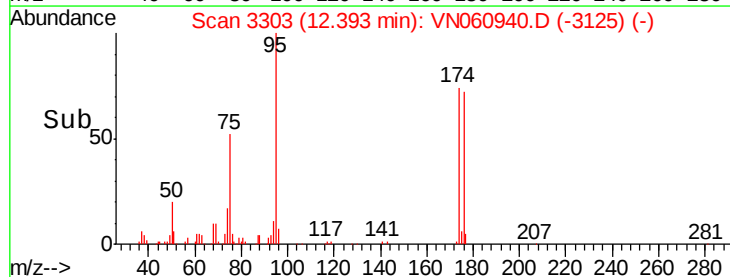
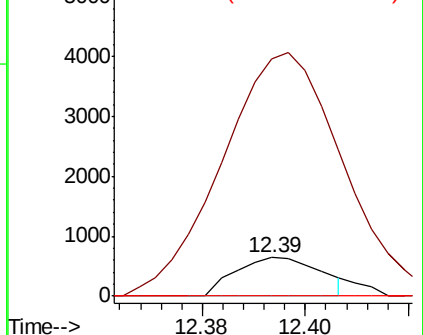


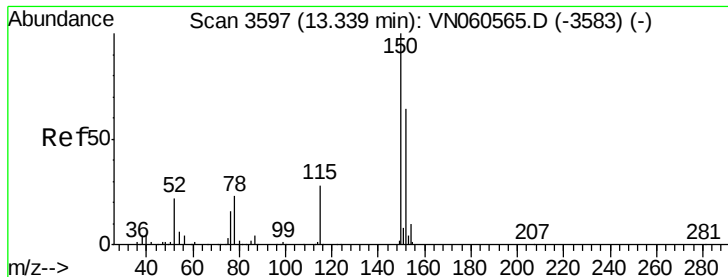
#71  
Bromoform  
Concen: 2.170 ug/l  
RT: 12.39 min Scan# 3303  
Delta R.T. 0.27 min  
Lab File: VN060940.D  
Acq: 14 Apr 2020 17:45

Tgt Ion:173 Resp: 741  
Ion Ratio Lower Upper  
173 100  
175 777.1 24.1 72.4#  
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: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

Instrument :

MSVOA\_N

ClientSampleId :

TP-34-33-COMP

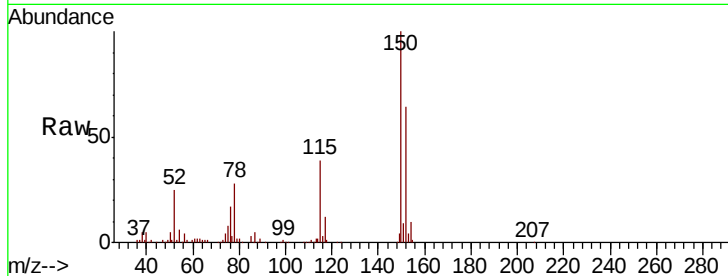
Tot Ion:152 Resp: 111098

Ion Ratio Lower Upper

152 100

115 60.7 30.2 90.6

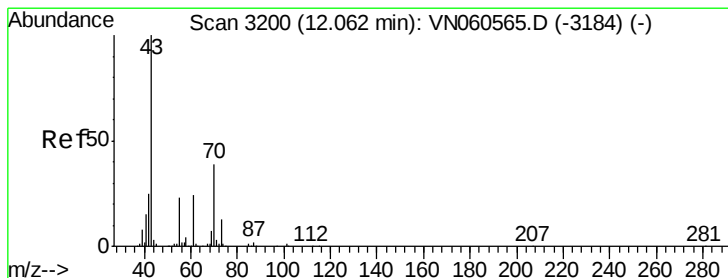
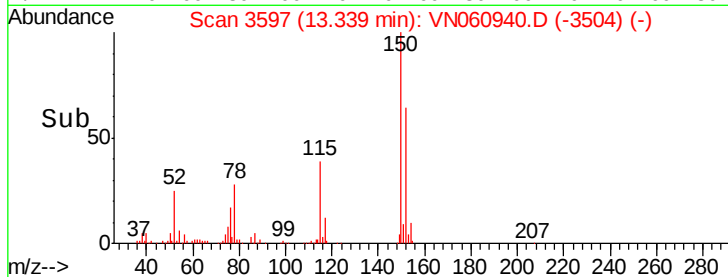
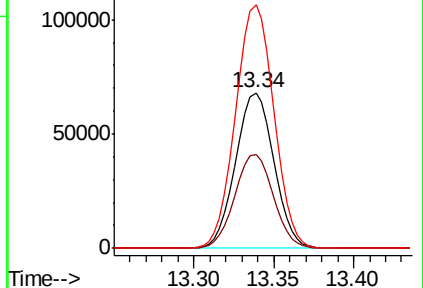
150 157.1 0.0 350.2



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-ethyl acetate

Concen: 0.782 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060940.D

Acq: 14 Apr 2020 17:45

Tgt Ion: 43 Resp: 3011

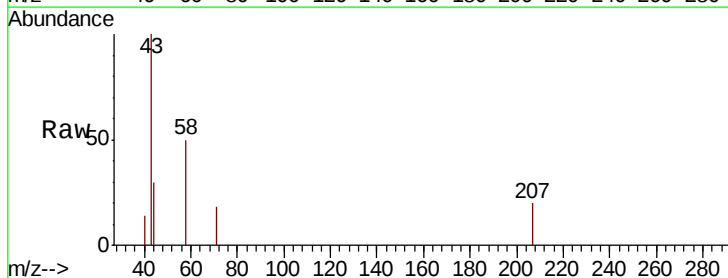
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

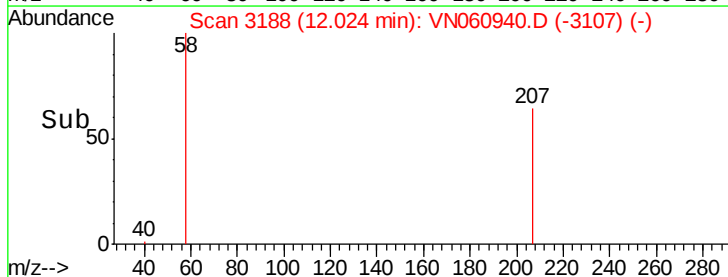
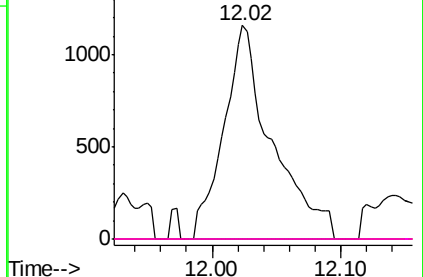


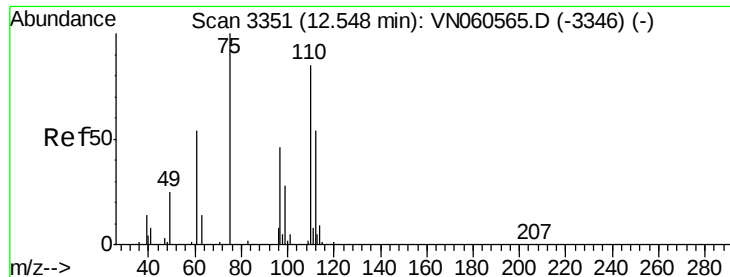
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

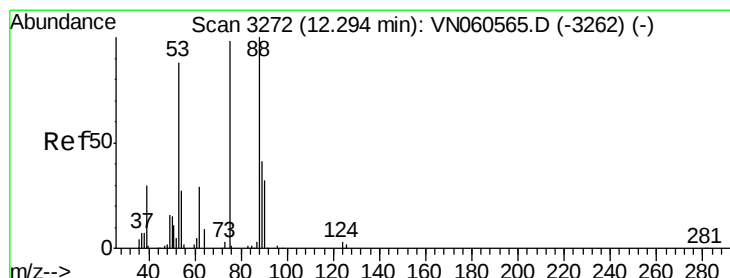
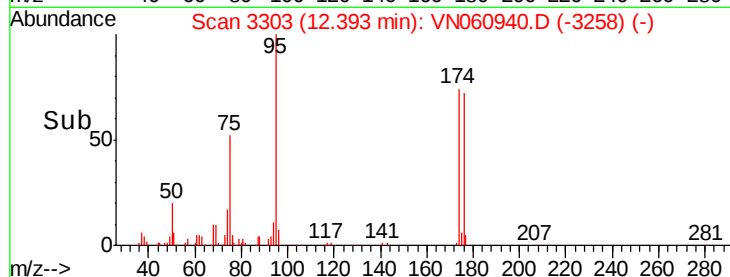
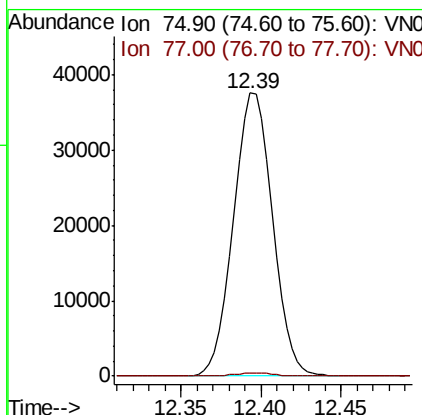
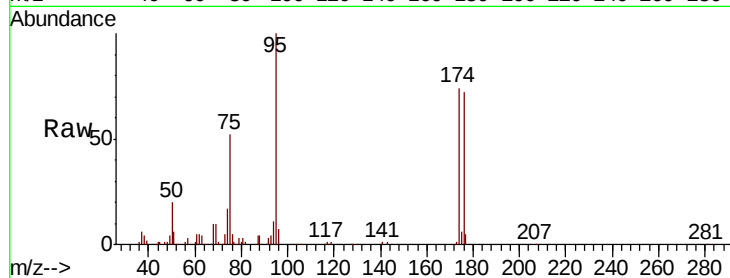




#76  
 1,2,3-Trichloropropane  
 Concen: 26.077 ug/l  
 RT: 12.39 min Scan# 3303  
 Delta R.T. -0.15 min  
 Lab File: VN060940.D  
 Acq: 14 Apr 2020 17:45

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-34-33-COMP

Tot Ion: 75 Resp: 62514  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 66.974 ug/l  
 RT: 12.39 min Scan# 3303  
 Delta R.T. 0.10 min  
 Lab File: VN060940.D  
 Acq: 14 Apr 2020 17:45

Tgt Ion: 75 Resp: 62514  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.0 109.4#  
 89 0.0 34.8 52.2#

