

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121520\  
 Data File : VN065145.D  
 Acq On : 15 Dec 2020 15:19  
 Operator : JC/MD  
 Sample : IBLK  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 16 07:15:50 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N121520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Dec 15 15:18:54 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.151  | 128   | 97988    | 30.00    | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 8.550  | 114   | 504286   | 30.00    | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.379 | 117   | 448346   | 30.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 7.987  | 65    | 215575   | 32.14    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 107.13%  |
| 60) 4-Bromofluorobenzene      | 12.376 | 95    | 178020   | 25.27    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 84.23%   |
| 63) Toluene-d8                | 10.058 | 98    | 611820   | 28.27    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 94.23%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.833  | 85    | 2350     | 0.42     | ug/l   | 85       |
| 4) Vinyl Chloride             | 2.161  | 62    | 2292     | 0.33     | ug/l # | 86       |
| 7) Trichlorofluoromethane     | 2.991  | 101   | 2770     | 0.27     | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo...  | 3.721  | 101   | 1635     | 0.30     | ug/l   | 77       |
| 11) Methyl Iodide             | 3.910  | 142   | 3055     | 0.42     | ug/l   | 92       |
| 12) Methyl Acetate            | 4.296  | 43    | 1000     | 0.21     | ug/l # | 54       |
| 13) Acrolein                  | 3.579  | 56    | 973      | 1.45     | ug/l   | 95       |
| 14) Acrylonitrile             | 4.942  | 53    | 2045     | 0.88     | ug/l # | 36       |
| 15) Acetone                   | 3.782  | 58    | 258      | 0.35     | ug/l # | 1        |
| 16) Carbon Disulfide          | 4.016  | 76    | 24840    | 1.62     | ug/l   | 99       |
| 18) Methylene Chloride        | 4.505  | 84    | 2249     | 0.37     | ug/l   | 92       |
| 19) trans-1,2-Dichloroethene  | 4.997  | 96    | 1252     | 0.22     | ug/l # | 32       |
| 36) 1,2-Dichloroethane        | 8.087  | 62    | 1915     | 0.23     | ug/l   | 98       |
| 37) Trichloroethene           | 8.801  | 130   | 3227     | 0.49     | ug/l   | 87       |
| 38) Methylcyclohexane         | 9.048  | 83    | 3936     | 0.42     | ug/l   | 89       |
| 40) Dibromomethane            | 9.174  | 93    | 1617     | 0.36     | ug/l   | 79       |
| 45) 1,4-Dioxane               | 9.164  | 88    | 133      | 1.38     | ug/l # | 1        |
| 48) t-1,3-Dichloropropene     | 10.347 | 75    | 2765     | 0.31     | ug/l # | 64       |
| 51) Ethyl methacrylate        | 10.068 | 69    | 1959     | 0.25     | ug/l   | 87       |
| 55) 2-Chloroethyl vinyl ether | 9.666  | 63    | 5551     | 1.40     | ug/l   | 95       |
| 56) Bromoform                 | 12.103 | 173   | 1037     | 0.22     | ug/l # | 87       |
| 58) 4-Methyl-2-Pentanone      | 9.962  | 43    | 3477     | 0.53     | ug/l # | 70       |
| 59) 2-Hexanone                | 10.730 | 43    | 3340     | 0.77     | ug/l   | 92       |
| 61) Tetrachloroethene         | 10.601 | 164   | 3412     | 0.52     | ug/l   | 91       |
| 62) Toluene                   | 10.129 | 91    | 5878     | 0.24     | ug/l   | 94       |
| 64) Chlorobenzene             | 11.405 | 112   | 6176     | 0.40     | ug/l   | 100      |
| 66) Ethyl Benzene             | 11.482 | 91    | 7933     | 0.30     | ug/l # | 86       |
| 67) m/p-Xylenes               | 11.595 | 106   | 5882     | 0.57     | ug/l   | 97       |
| 69) Styrene                   | 11.936 | 104   | 4321     | 0.27     | ug/l # | 74       |
| 70) Isopropylbenzene          | 12.225 | 105   | 7415     | 0.29     | ug/l # | 74       |
| 72) 1,2,3-Trichloropropane    | 12.524 | 75    | 3457     | 0.49     | ug/l # | 1        |
| 73) Bromobenzene              | 12.502 | 156   | 3470     | 0.53     | ug/l   | 62       |
| 74) n-propylbenzene           | 12.566 | 91    | 12938    | 0.45     | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 12.650 | 91    | 6828     | 0.39     | ug/l   | 68       |
| 76) 1,3,5-Trimethylbenzene    | 12.707 | 105   | 7118     | 0.33     | ug/l   | 98       |
| 78) 4-Chlorotoluene           | 12.749 | 91    | 8148     | 0.45     | ug/l   | 89       |
| 79) tert-butylbenzene         | 12.965 | 119   | 5814     | 0.32     | ug/l   | 92       |
| 80) 1,2,4-Trimethylbenzene    | 13.013 | 105   | 7352     | 0.34     | ug/l   | 93       |
| 81) sec-Butylbenzene          | 13.141 | 105   | 10325    | 0.43     | ug/l   | 96       |

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 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :

Quant Time: Dec 16 07:15:50 2020  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Dec 15 15:18:54 2020  
 Response via : Initial Calibration

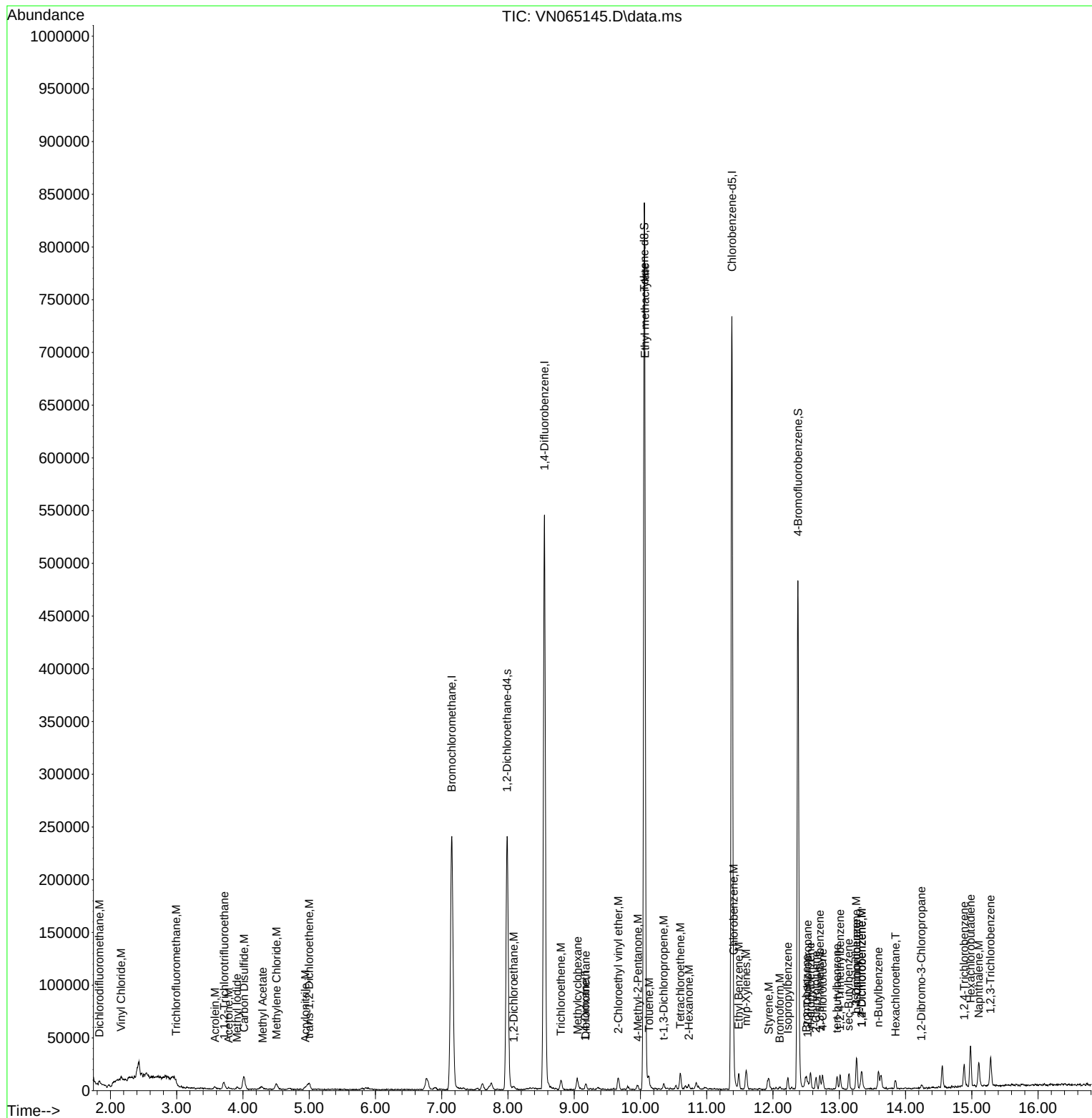
| Compound                      | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|------|--------|----------|
| -----                         |        |      |          |      |        |          |
| 82) p-Isopropyltoluene        | 13.260 | 119  | 8516     | 0.38 | ug/l   | 97       |
| 83) 1,3-Dichlorobenzene       | 13.257 | 146  | 6776     | 0.58 | ug/l   | 92       |
| 84) 1,4-Dichlorobenzene       | 13.341 | 146  | 8411     | 0.69 | ug/l   | 98       |
| 85) n-Butylbenzene            | 13.588 | 91   | 10338    | 0.52 | ug/l   | 96       |
| 86) Hexachloroethane          | 13.849 | 117  | 1558     | 0.36 | ug/l   | 70       |
| 87) 1,2-Dichlorobenzene       | 13.341 | 146  | 8411     | 0.69 | ug/l   | 96       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.238 | 75   | 594      | 0.42 | ug/l # | 1        |
| 89) 1,2,4-Trichlorobenzene    | 14.887 | 180  | 7584     | 1.39 | ug/l   | 91       |
| 90) Hexachlorobutadiene       | 14.984 | 225  | 7760     | 2.25 | ug/l   | 97       |
| 91) Naphthalene               | 15.106 | 128  | 20903    | 1.35 | ug/l   | 96       |
| 92) 1,2,3-Trichlorobenzene    | 15.283 | 180  | 9789     | 1.90 | ug/l   | 99       |
| -----                         |        |      |          |      |        |          |

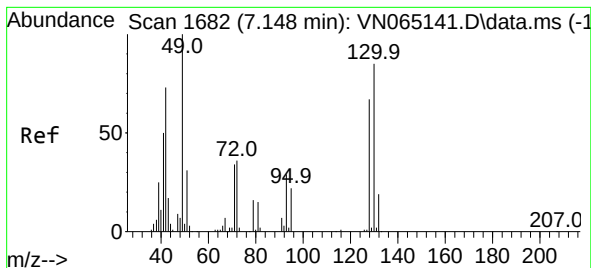
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ClientSampleId :

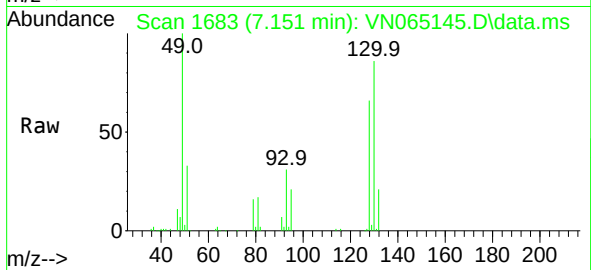
Quant Time: Dec 16 07:15:50 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N121520W.M  
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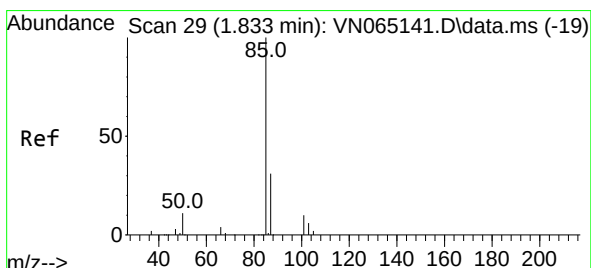
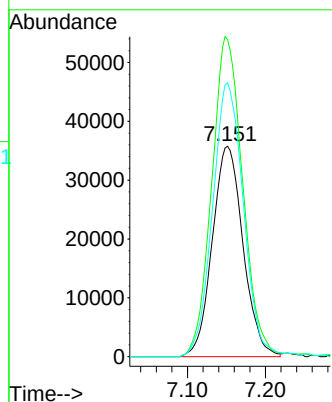
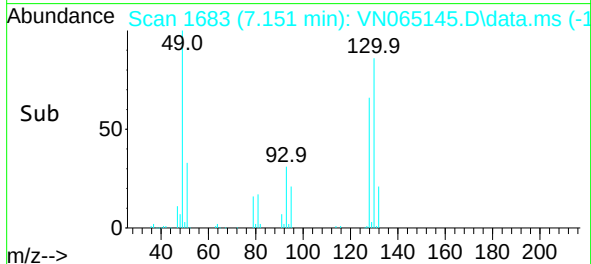


#1  
Bromochloromethane  
Concen: 30.00 ug/l  
RT: 7.151 min Scan# 1683  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

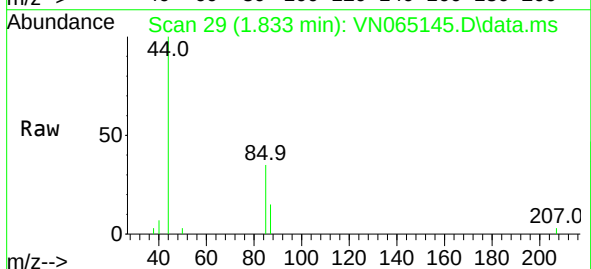
Instrument :  
MSVOA\_N  
ClientSampled :



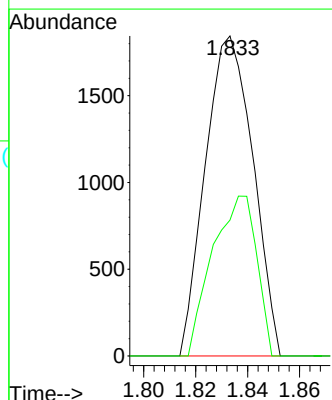
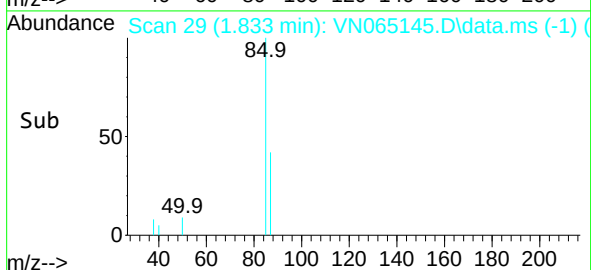
Tgt Ion:128 Resp: 97988  
Ion Ratio Lower Upper  
128 100  
49 152.6 0.0 475.5  
130 130.9 0.0 315.3

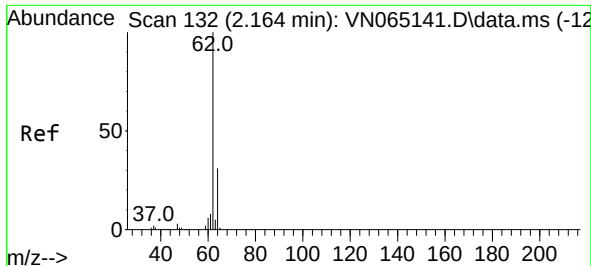


#2  
Dichlorodifluoromethane  
Concen: 0.42 ug/l  
RT: 1.833 min Scan# 29  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19



Tgt Ion: 85 Resp: 2350  
Ion Ratio Lower Upper  
85 100  
87 42.5 17.0 50.9

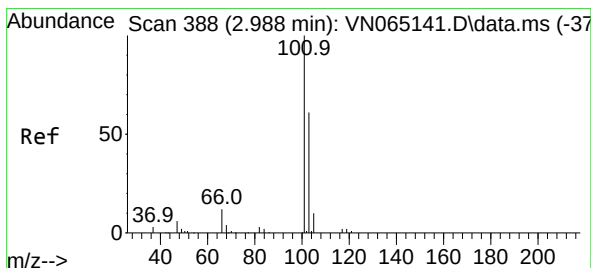
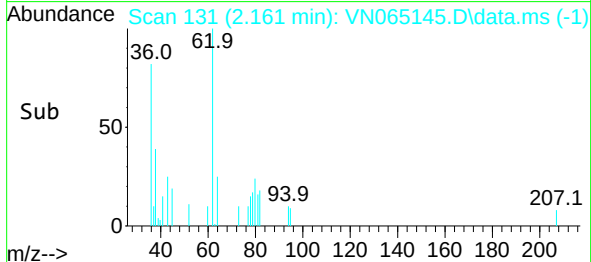
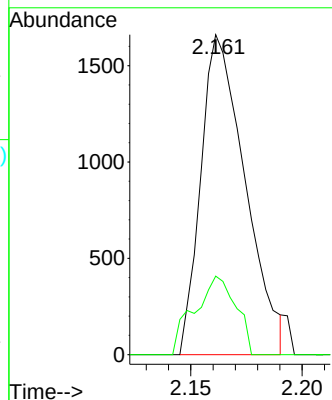
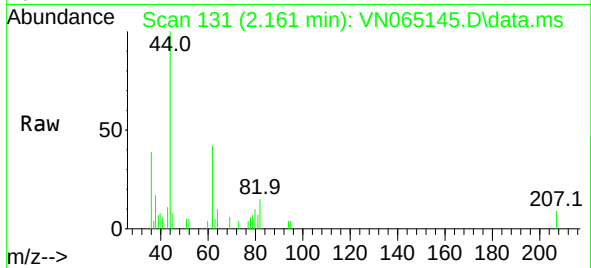




#4  
 Vinyl Chloride  
 Concen: 0.33 ug/l  
 RT: 2.161 min Scan# 131  
 Delta R.T. -0.003 min  
 Lab File: VN065145.D  
 Acq: 15 Dec 2020 15:19

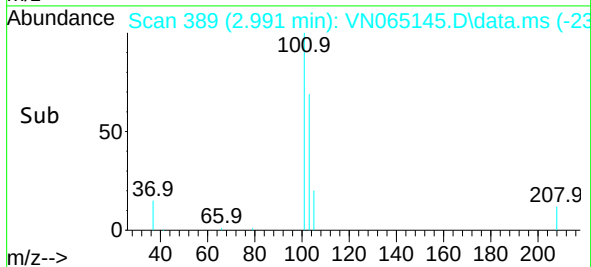
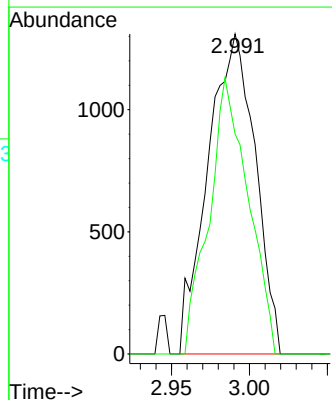
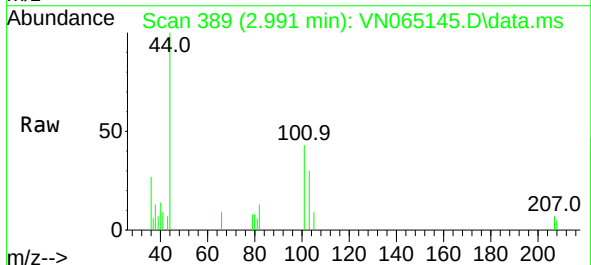
Instrument :  
 MSVOA\_N  
 ClientSampled :

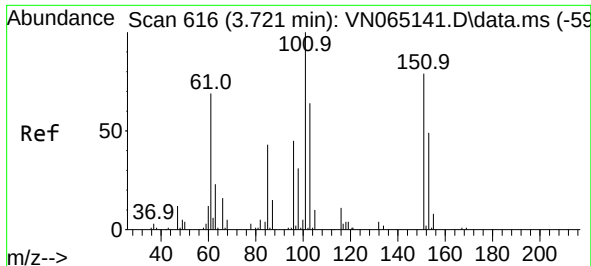
Tgt Ion: 62 Resp: 2292  
 Ion Ratio Lower Upper  
 62 100  
 64 24.6 25.8 38.8#



#7  
 Trichlorofluoromethane  
 Concen: 0.27 ug/l  
 RT: 2.991 min Scan# 389  
 Delta R.T. 0.003 min  
 Lab File: VN065145.D  
 Acq: 15 Dec 2020 15:19

Tgt Ion: 101 Resp: 2770  
 Ion Ratio Lower Upper  
 101 100  
 103 68.8 49.3 73.9

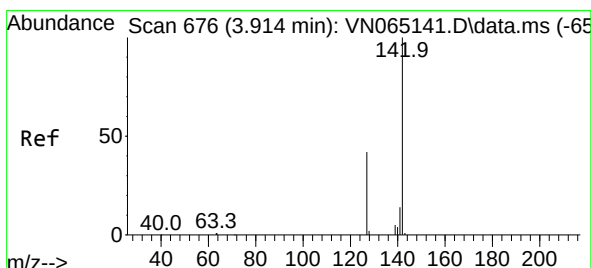
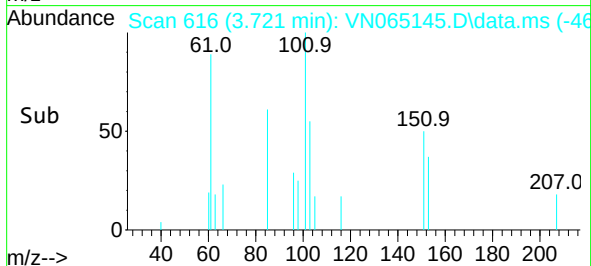
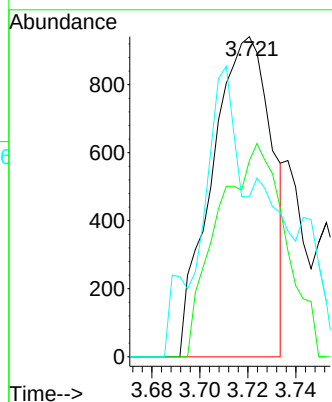
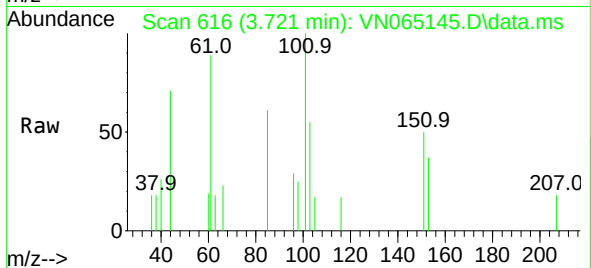




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.30 ug/l  
RT: 3.721 min Scan# 616  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

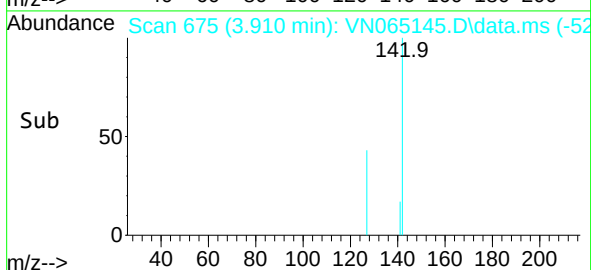
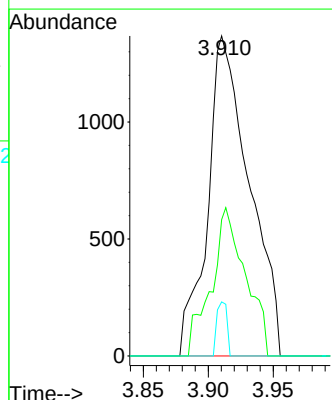
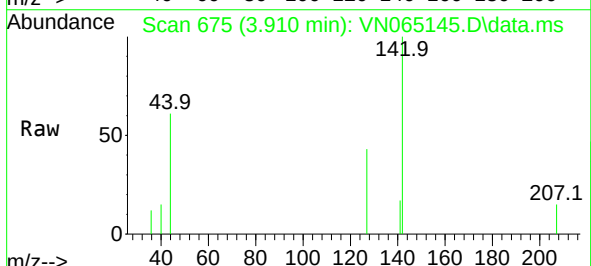
Instrument :  
MSVOA\_N  
ClientSampled :

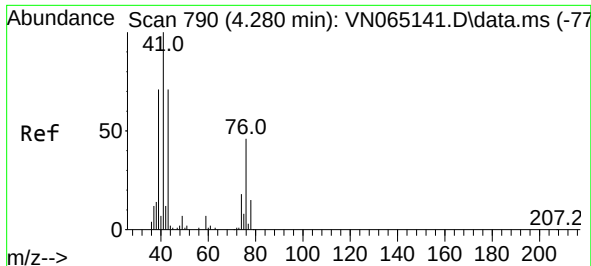
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 1635  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 42.6  | 0.0   | 49.0  |
| 151      | 30.6  | 0.0   | 80.2  |



#11  
Methyl Iodide  
Concen: 0.42 ug/l  
RT: 3.910 min Scan# 675  
Delta R.T. -0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 3055  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 42.6  | 24.7  | 74.1  |
| 141      | 16.9  | 7.8   | 23.3  |





#12

Methyl Acetate

Concen: 0.21 ug/l

RT: 4.296 min Scan# 795

Delta R.T. 0.016 min

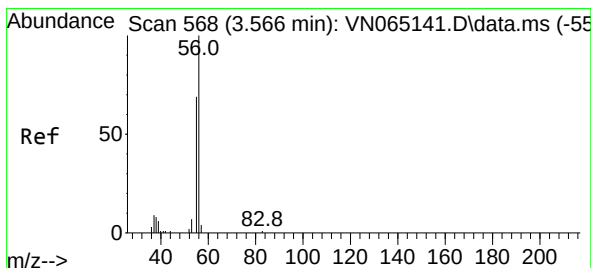
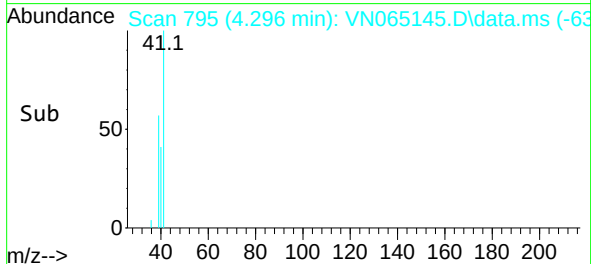
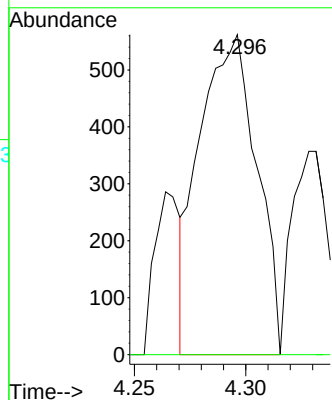
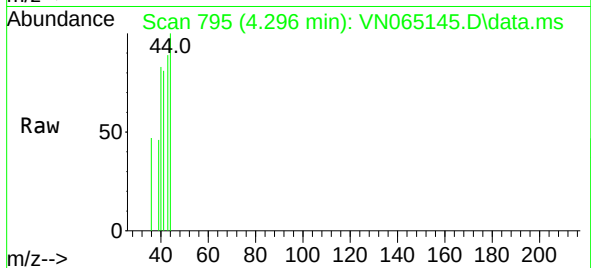
Lab File: VN065145.D

Acq: 15 Dec 2020 15:19

Tgt Ion: 43 Resp: 1000

Ion Ratio Lower Upper

43 100  
74 0.0 17.7 26.5#



#13

Acrolein

Concen: 1.45 ug/l

RT: 3.579 min Scan# 572

Delta R.T. 0.013 min

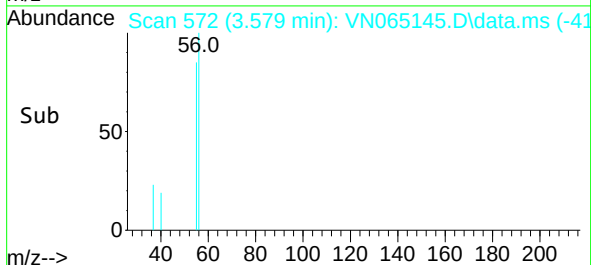
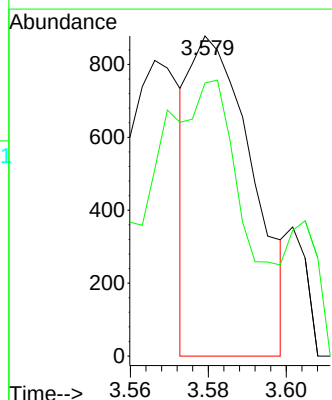
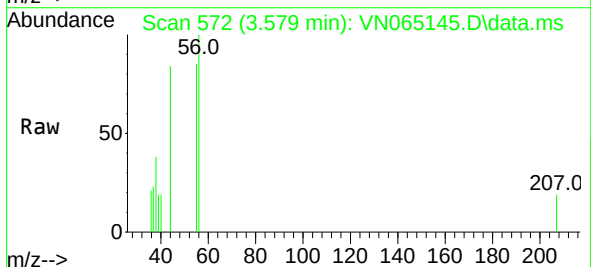
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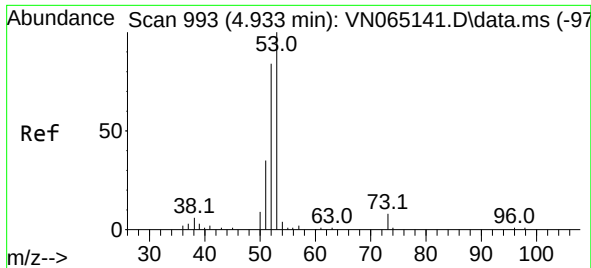
Acq: 15 Dec 2020 15:19

Tgt Ion: 56 Resp: 973

Ion Ratio Lower Upper

56 100  
55 76.9 58.2 87.2

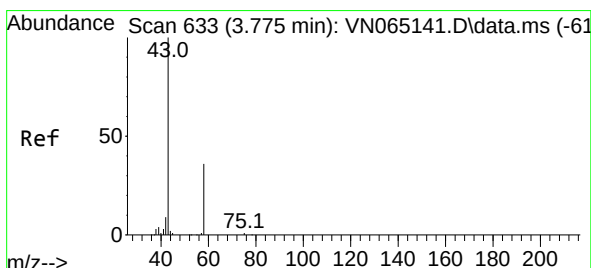
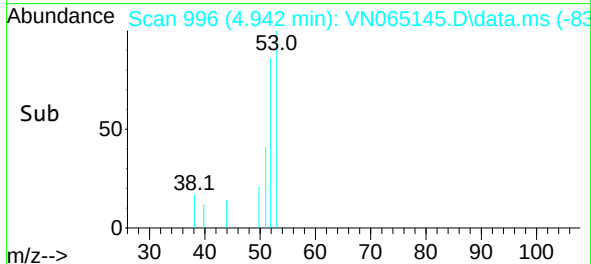
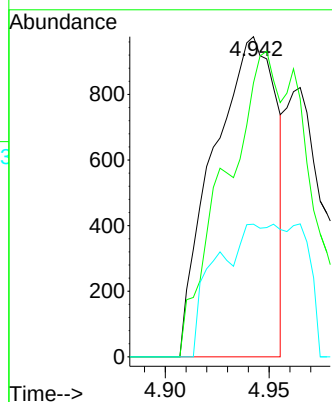
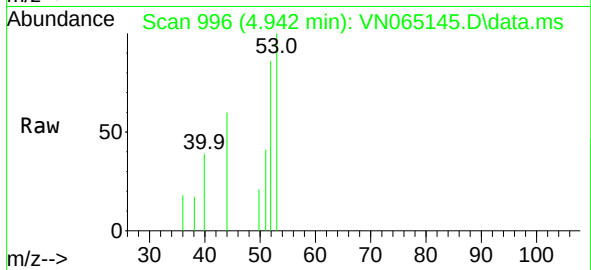




#14  
Acrylonitrile  
Concen: 0.88 ug/l  
RT: 4.942 min Scan# 996  
Delta R.T. 0.010 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

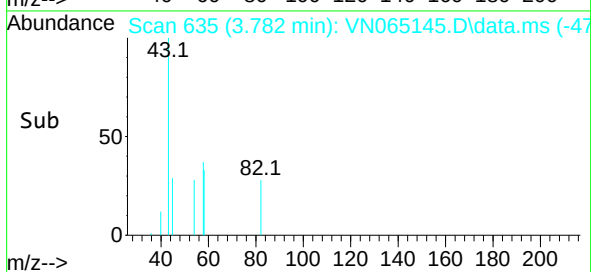
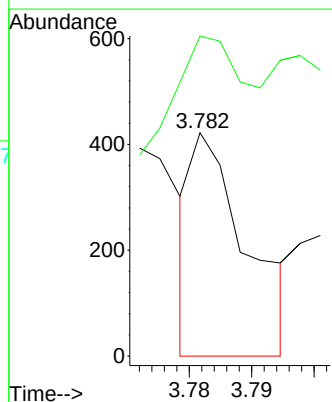
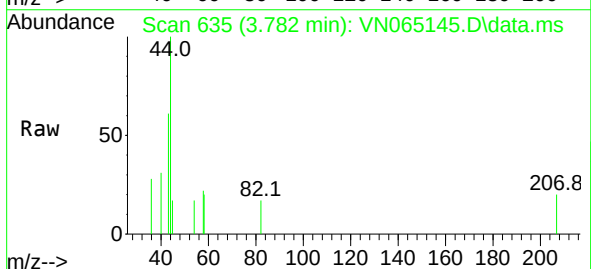
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 53 Resp: 2045  
Ion Ratio Lower Upper  
53 100  
52 21.3 41.3 124.1#  
51 4.9 18.9 56.5#

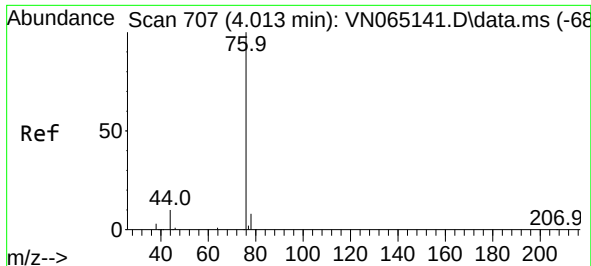


#15  
Acetone  
Concen: 0.35 ug/l  
RT: 3.782 min Scan# 635  
Delta R.T. 0.006 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 58 Resp: 258  
Ion Ratio Lower Upper  
58 100  
43 35.8 289.8 434.8#

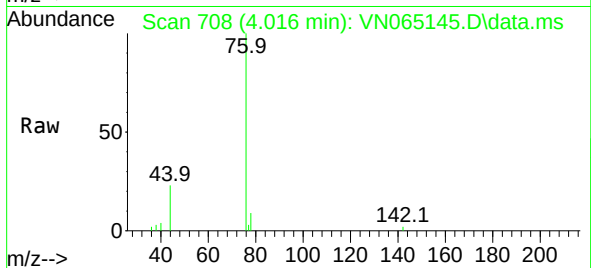




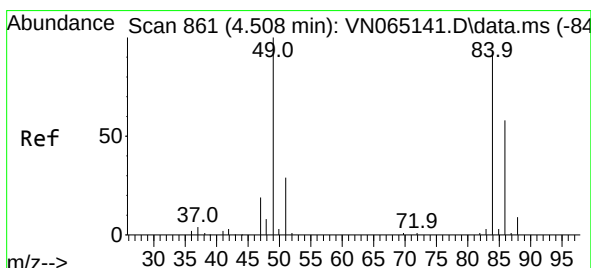
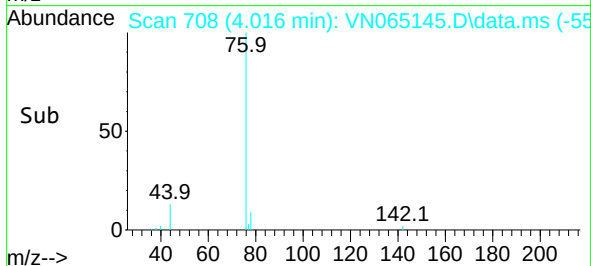
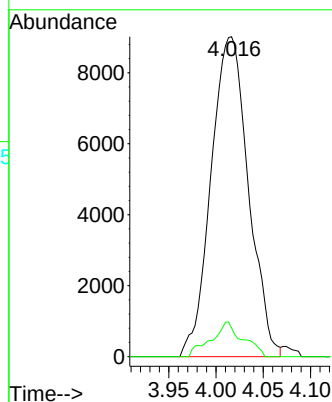


#16  
Carbon Disulfide  
Concen: 1.62 ug/l  
RT: 4.016 min Scan# 708  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Instrument :  
MSVOA\_N  
ClientSampled :

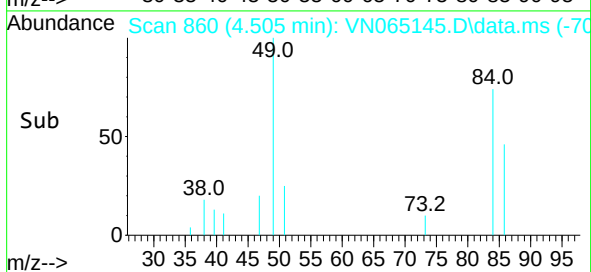
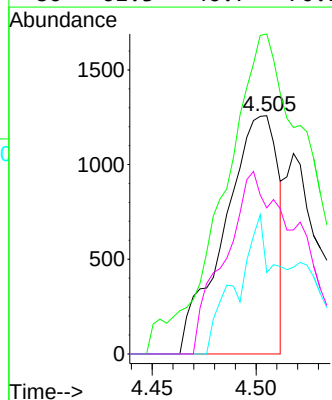
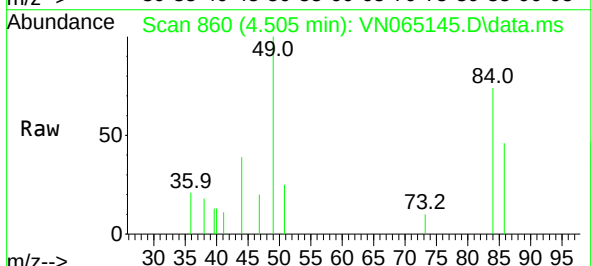


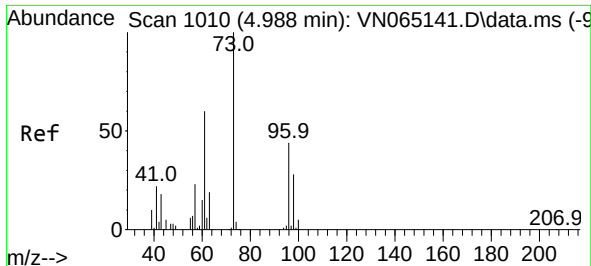
Tgt Ion: 76 Resp: 24840  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.6 11.4



#18  
Methylene Chloride  
Concen: 0.37 ug/l  
RT: 4.505 min Scan# 860  
Delta R.T. -0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 84 Resp: 2249  
Ion Ratio Lower Upper  
84 100  
49 116.2 102.1 153.1  
51 34.2 32.6 48.8  
86 61.3 46.7 70.1

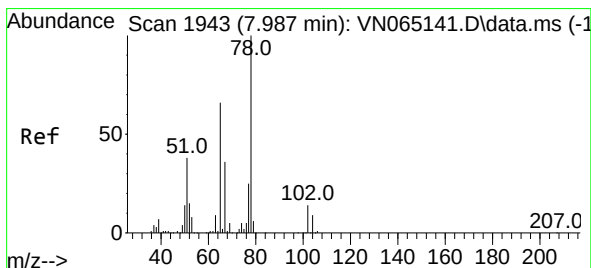
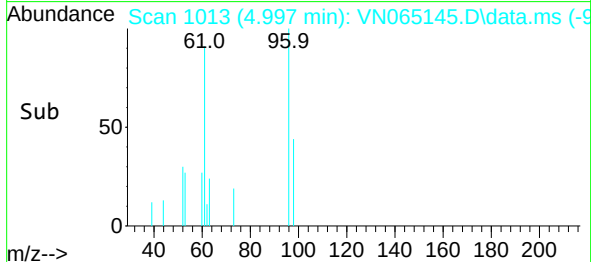
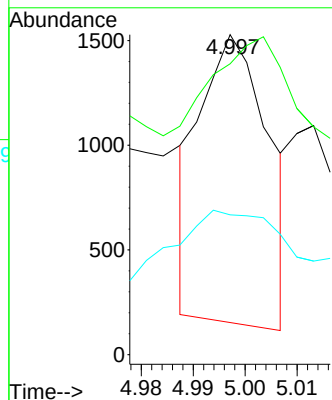
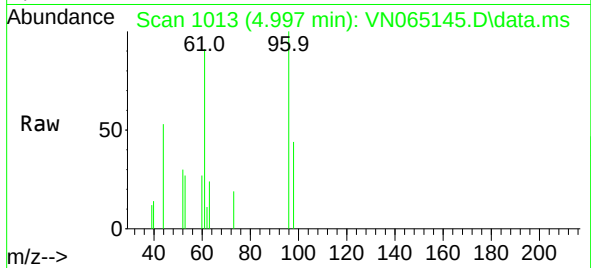




#19  
trans-1,2-Dichloroethene  
Concen: 0.22 ug/l  
RT: 4.997 min Scan# 1013  
Delta R.T. 0.010 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

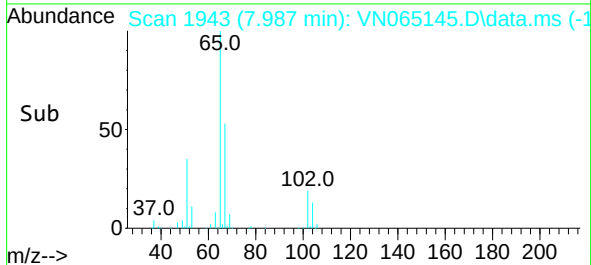
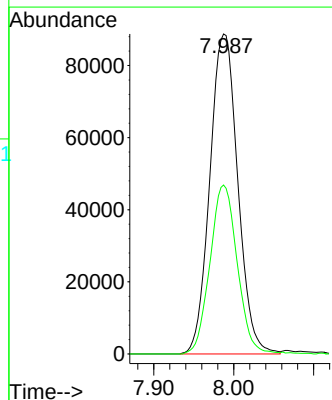
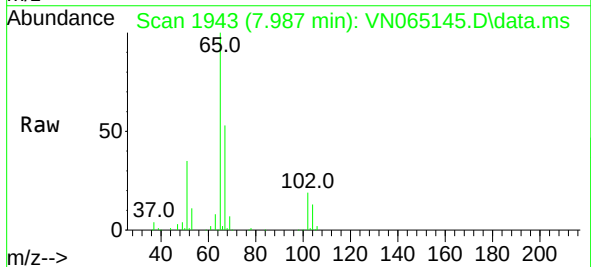
Instrument :  
MSVOA\_N  
ClientSampled :

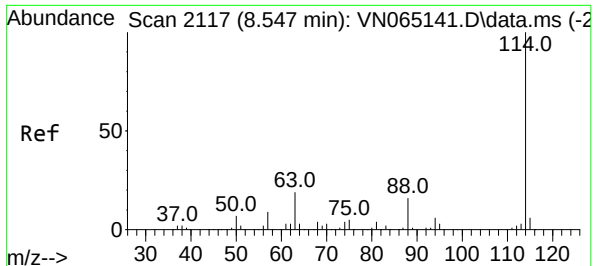
Tgt Ion: 96 Resp: 1252  
Ion Ratio Lower Upper  
96 100  
61 52.7 120.1 180.1#  
98 25.6 49.1 73.7#



#27  
1,2-Dichloroethane-d4  
Concen: 32.14 ug/l  
RT: 7.987 min Scan# 1943  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 65 Resp: 215575  
Ion Ratio Lower Upper  
65 100  
67 51.4 41.1 61.7

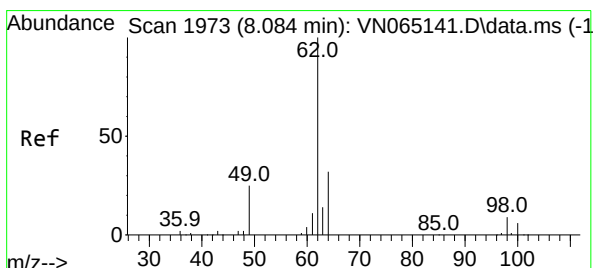
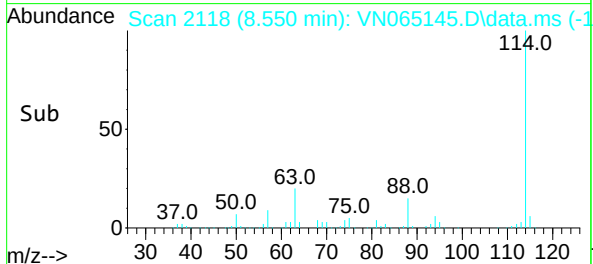
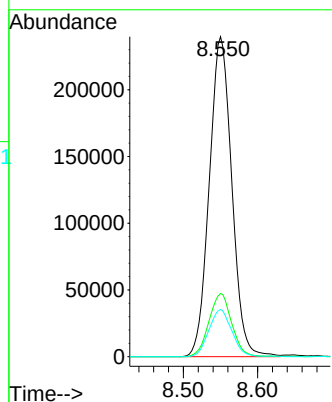
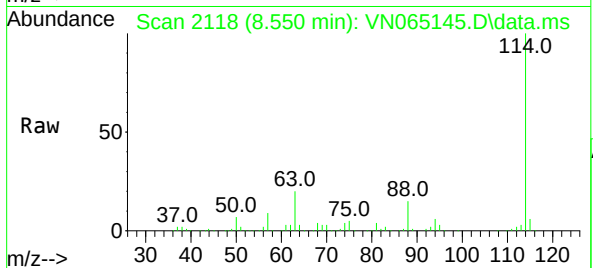




#28  
1,4-Difluorobenzene  
Concen: 30.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

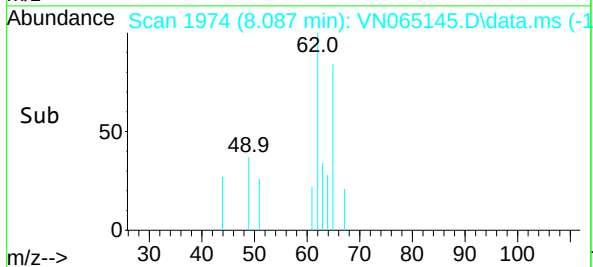
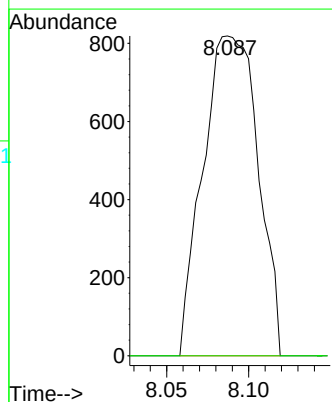
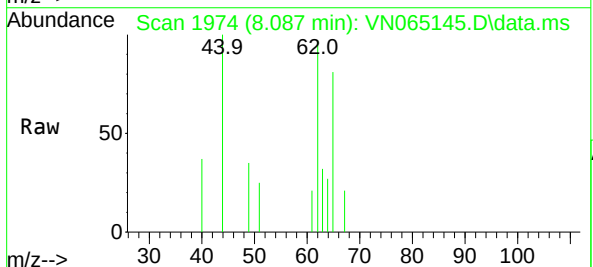
Instrument :  
MSVOA\_N  
ClientSampled :

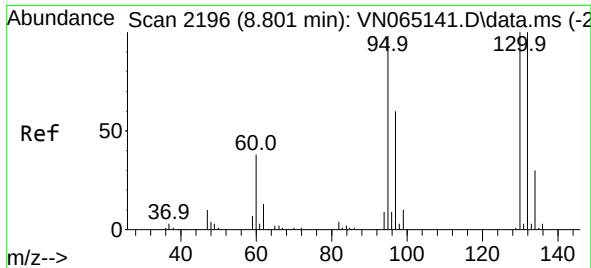
Tgt Ion:114 Resp: 504286  
Ion Ratio Lower Upper  
114 100  
63 19.9 18.5 27.7  
88 15.0 13.0 19.6



#36  
1,2-Dichloroethane  
Concen: 0.23 ug/l  
RT: 8.087 min Scan# 1974  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 62 Resp: 1915  
Ion Ratio Lower Upper  
62 100  
98 7.6 5.5 8.3

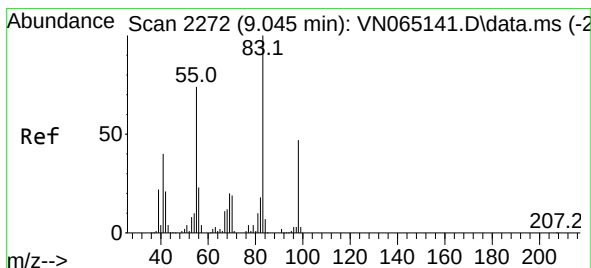
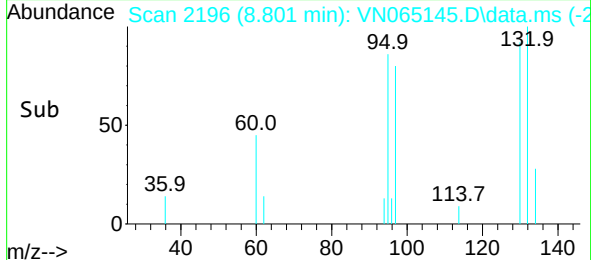
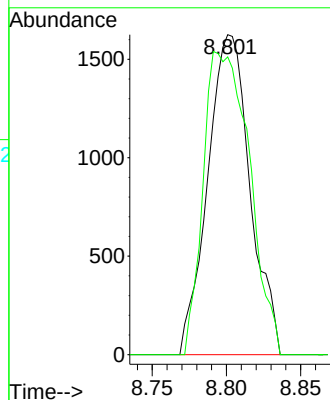
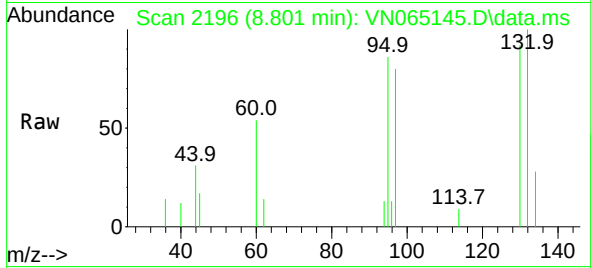




#37  
Trichloroethene  
Concen: 0.49 ug/l  
RT: 8.801 min Scan# 2196  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

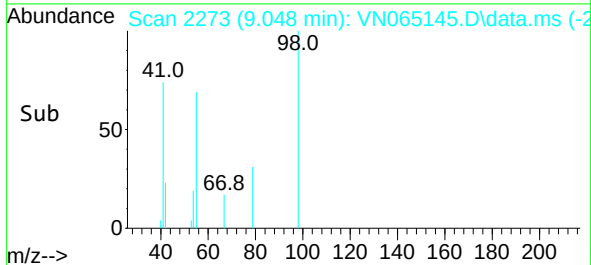
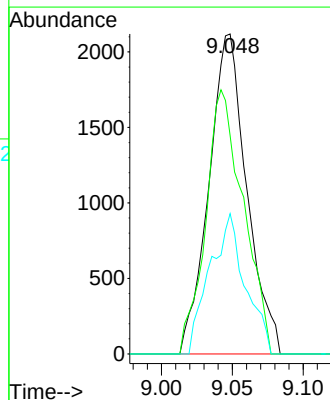
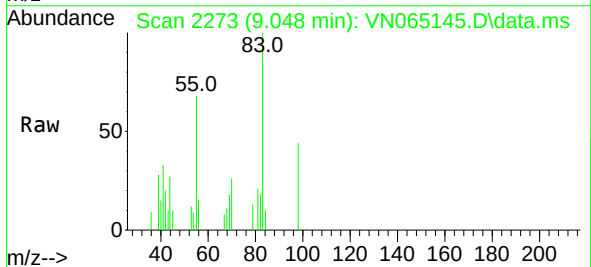
Instrument :  
MSVOA\_N  
ClientSampleId :

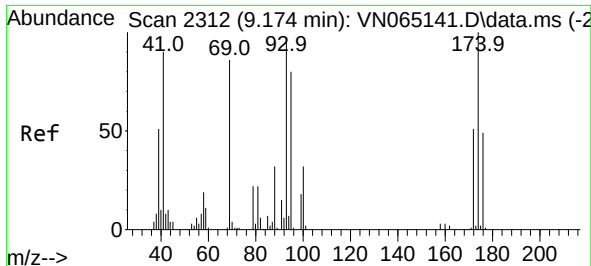
Tgt Ion:130 Resp: 3227  
Ion Ratio Lower Upper  
130 100  
95 93.0 85.1 127.7



#38  
Methylcyclohexane  
Concen: 0.42 ug/l  
RT: 9.048 min Scan# 2273  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 83 Resp: 3936  
Ion Ratio Lower Upper  
83 100  
55 82.0 42.0 126.1  
98 27.7 22.5 67.5

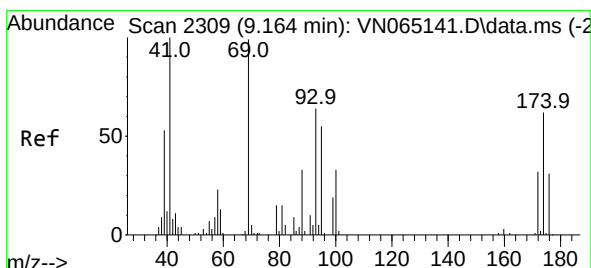
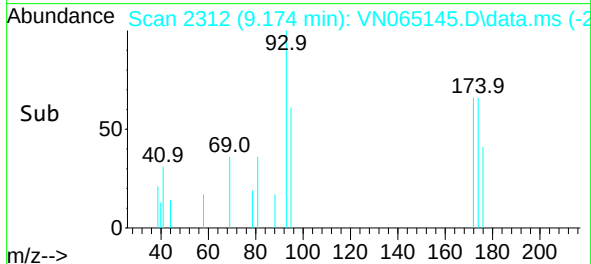
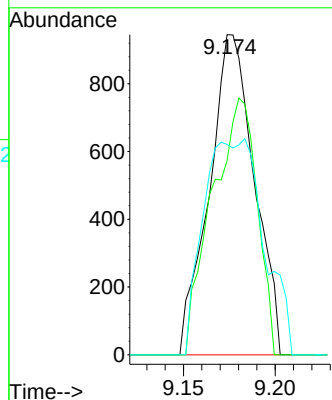
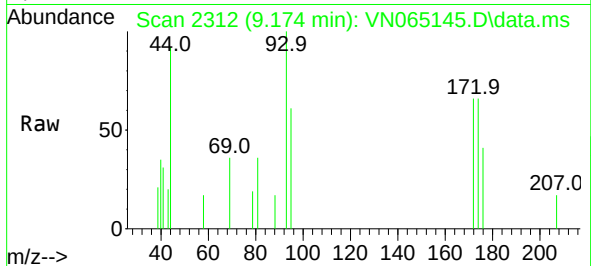




#40  
Dibromomethane  
Concen: 0.36 ug/l  
RT: 9.174 min Scan# 2312  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

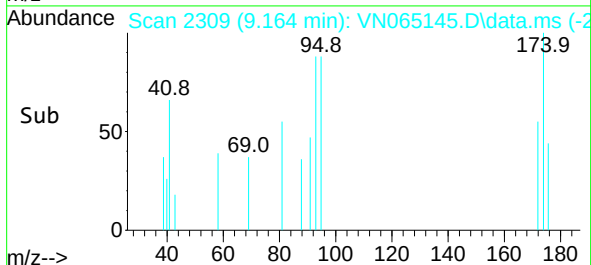
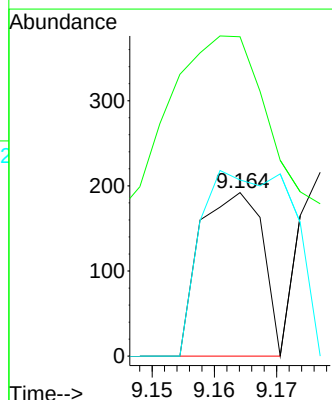
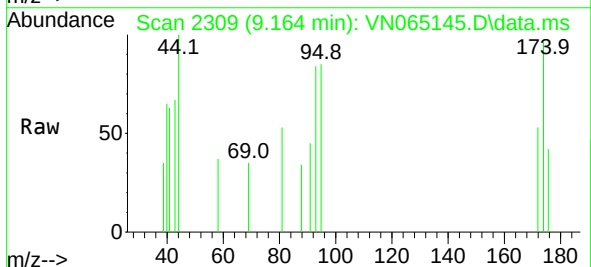
Instrument :  
MSVOA\_N  
ClientSampled :

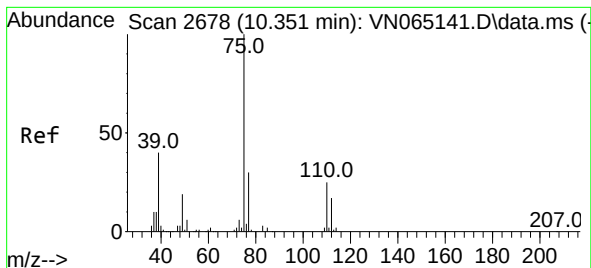
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1617  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 95       | 79.7  | 0.0   | 164.6 |
| 174      | 47.1  | 0.0   | 165.6 |



#45  
1,4-Dioxane  
Concen: 1.38 ug/l  
RT: 9.164 min Scan# 2309  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 133   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 409.8 | 30.6  | 46.0# |
| 58       | 113.5 | 57.9  | 86.9# |

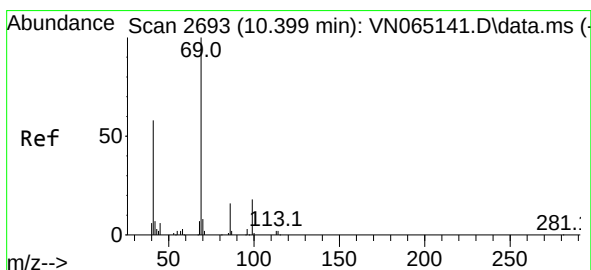
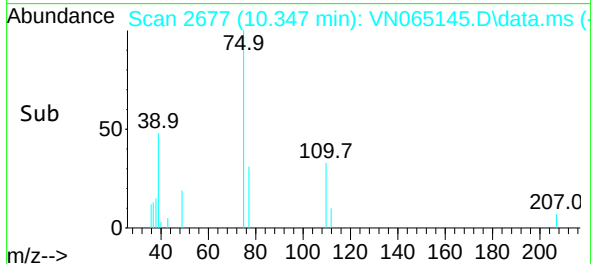
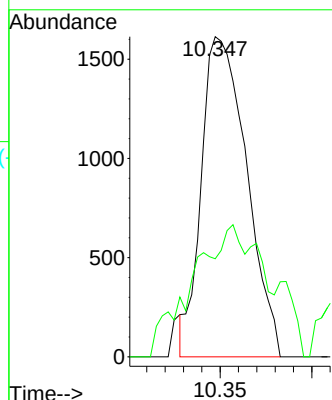
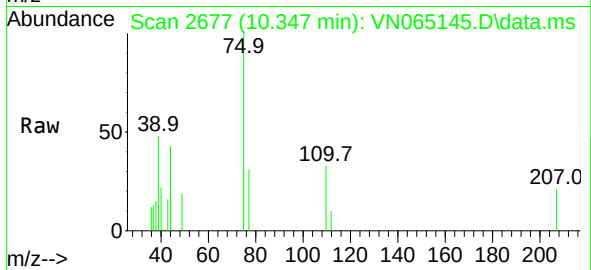




#48  
t-1,3-Dichloropropene  
Concen: 0.31 ug/l  
RT: 10.347 min Scan# 2677  
Delta R.T. -0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

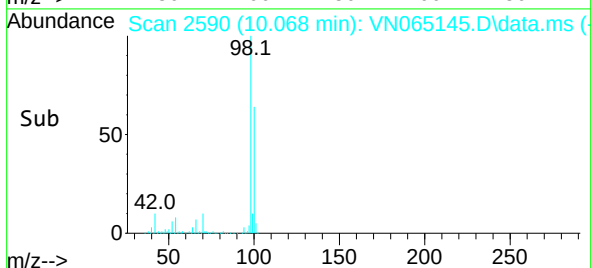
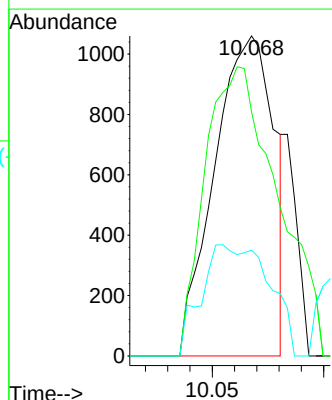
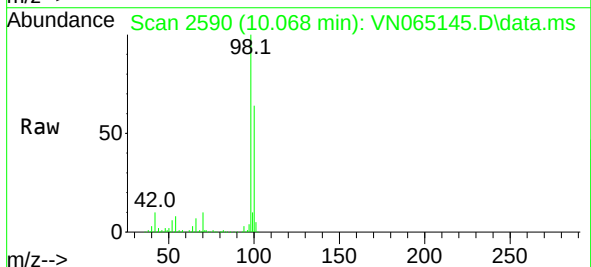
Instrument :  
MSVOA\_N  
ClientSampleId :

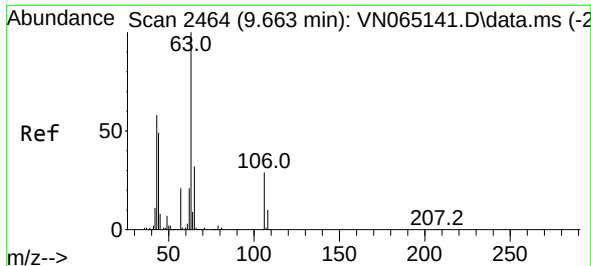
Tgt Ion: 75 Resp: 2765  
Ion Ratio Lower Upper  
75 100  
77 12.0 25.8 38.6#



#51  
Ethyl methacrylate  
Concen: 0.25 ug/l  
RT: 10.068 min Scan# 2590  
Delta R.T. -0.331 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 69 Resp: 1959  
Ion Ratio Lower Upper  
69 100  
41 76.2 35.4 106.1  
39 33.0 24.1 72.2

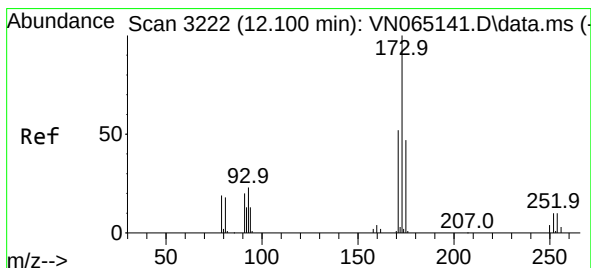
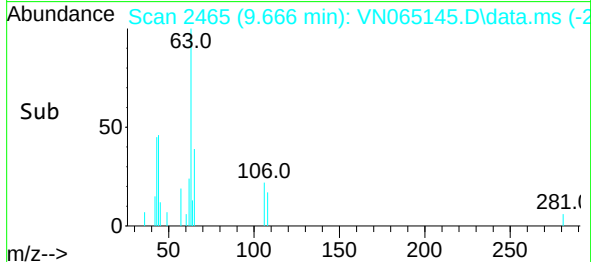
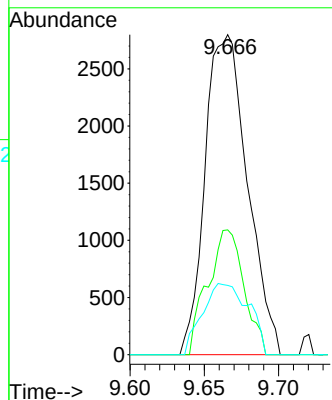
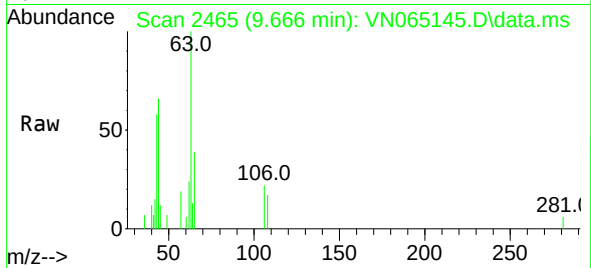




#55  
2-Chloroethyl vinyl ether  
Concen: 1.40 ug/l  
RT: 9.666 min Scan# 2465  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

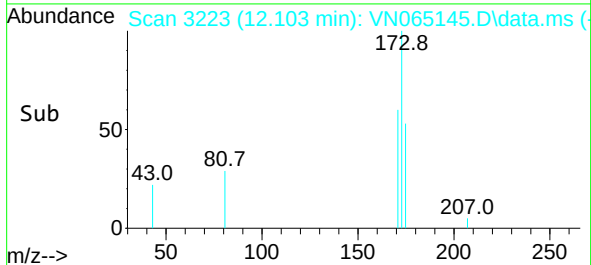
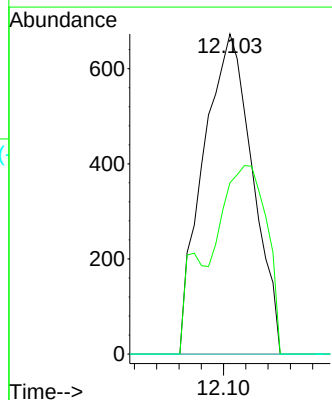
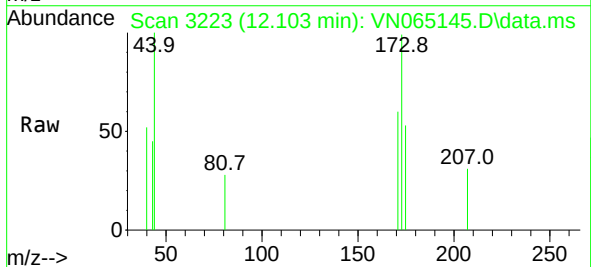
Instrument :  
MSVOA\_N  
ClientSampled :

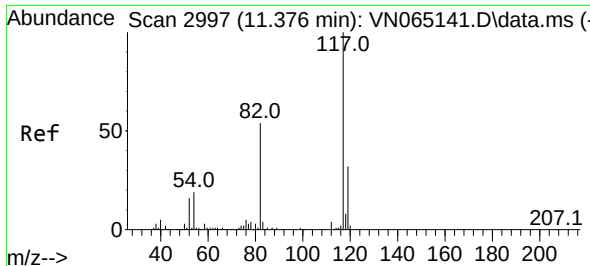
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 5551  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 33.6  | 25.7  | 38.5  |
| 106      | 20.7  | 19.9  | 29.9  |



#56  
Bromoform  
Concen: 0.22 ug/l  
RT: 12.103 min Scan# 3223  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 1037  |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 54.1  | 37.1  | 55.7  |
| 254      | 0.0   | 5.4   | 8.2#  |

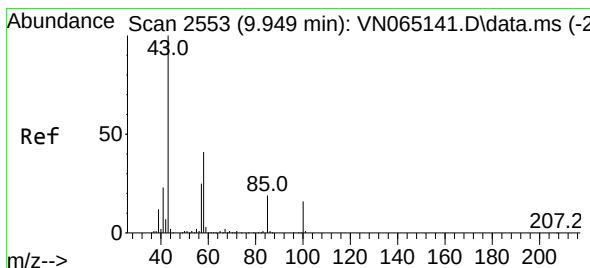
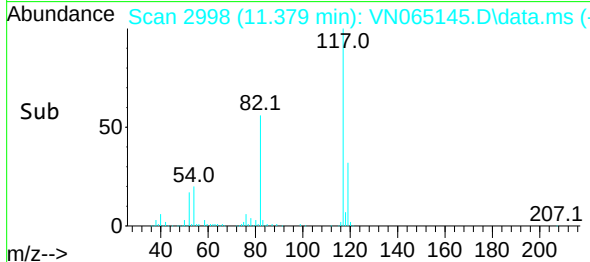
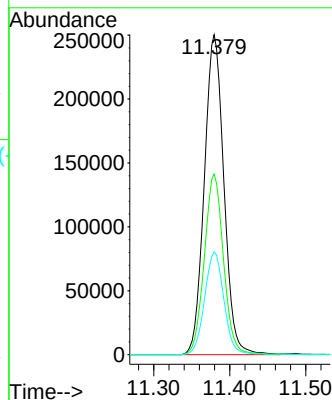
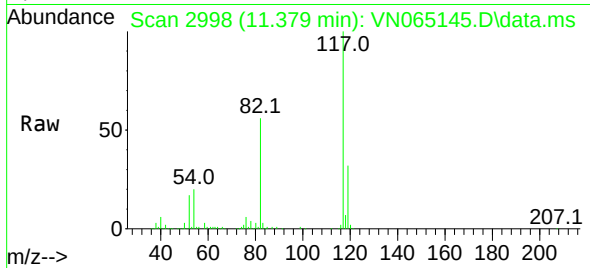




#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

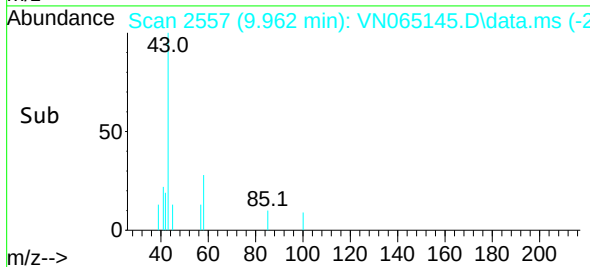
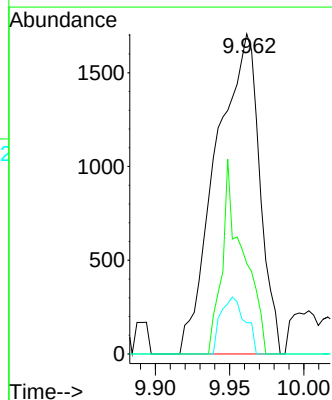
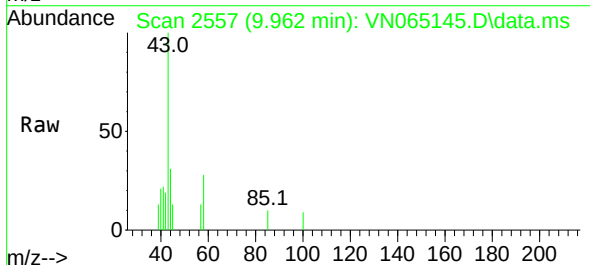
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 117 Resp: 448346  
Ion Ratio Lower Upper  
117 100  
82 55.3 47.8 71.8  
119 31.5 25.7 38.5

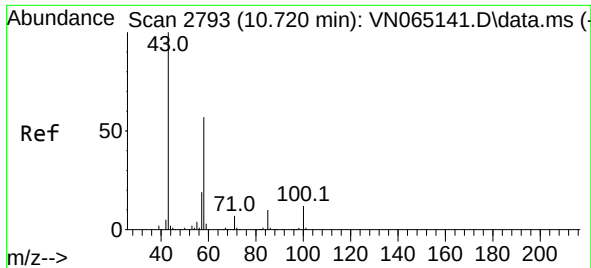


#58  
4-Methyl-2-Pentanone  
Concen: 0.53 ug/l  
RT: 9.962 min Scan# 2557  
Delta R.T. 0.013 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 43 Resp: 3477  
Ion Ratio Lower Upper  
43 100  
58 14.6 28.8 43.2#  
85 9.1 12.3 18.5#



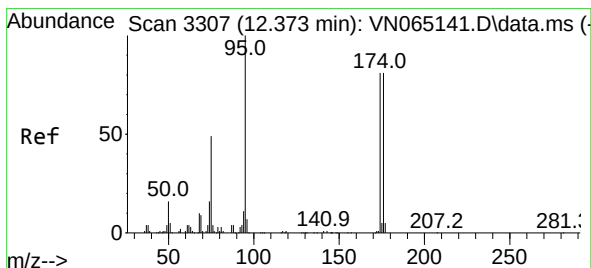
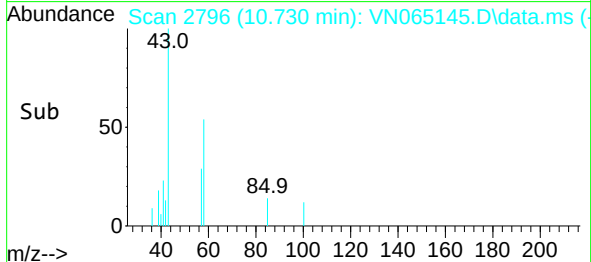
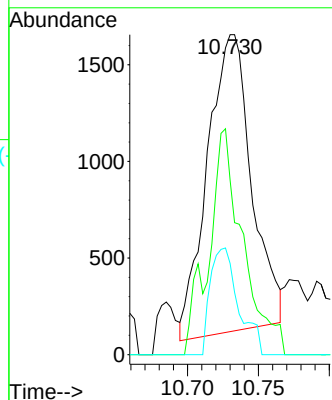
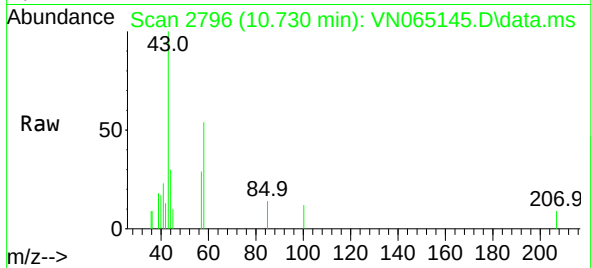




#59  
2-Hexanone  
Concen: 0.77 ug/l  
RT: 10.730 min Scan# 2796  
Delta R.T. 0.010 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

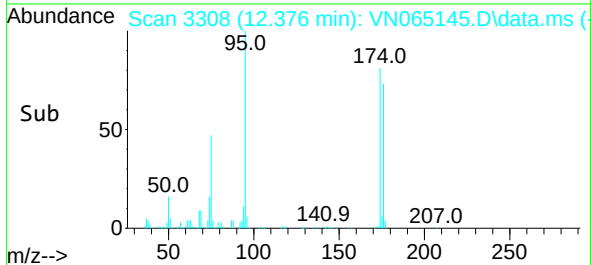
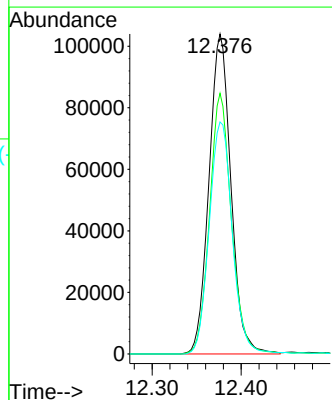
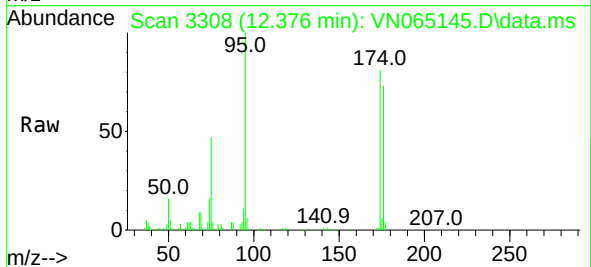
Instrument :  
MSVOA\_N  
ClientSampleId :

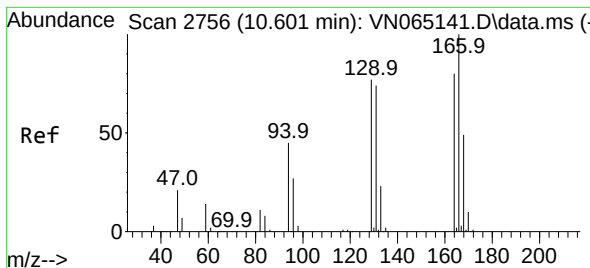
Tgt Ion: 43 Resp: 3340  
Ion Ratio Lower Upper  
43 100  
58 41.9 38.2 57.4  
57 20.1 13.8 20.8



#60  
4-Bromofluorobenzene  
Concen: 25.27 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 95 Resp: 178020  
Ion Ratio Lower Upper  
95 100  
174 81.1 56.4 84.6  
176 75.9 53.3 79.9





#61

Tetrachloroethene

Concen: 0.52 ug/l

RT: 10.601 min Scan# 2756

Delta R.T. -0.000 min

Lab File: VN065145.D

Acq: 15 Dec 2020 15:19

Tgt Ion:164 Resp: 3412

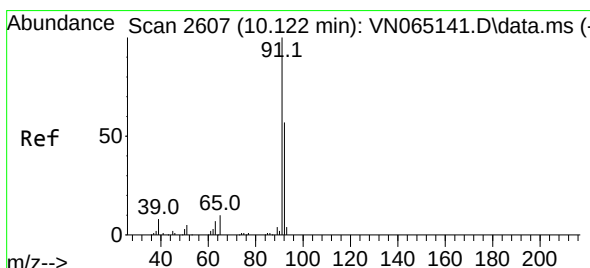
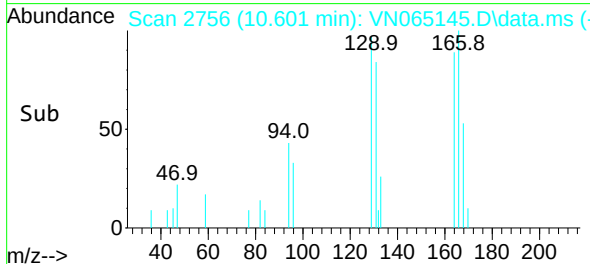
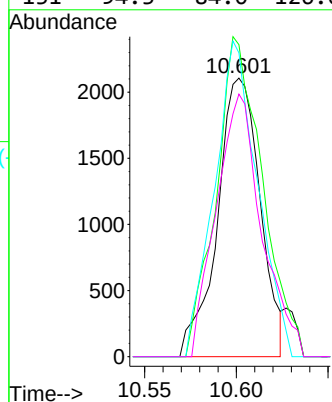
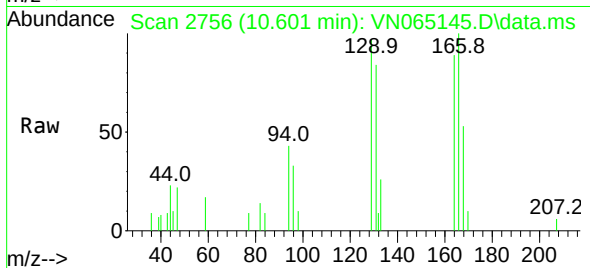
Ion Ratio Lower Upper

164 100

166 112.0 103.2 154.8

129 109.1 86.4 129.6

131 94.3 84.0 126.0



#62

Toluene

Concen: 0.24 ug/l

RT: 10.129 min Scan# 2609

Delta R.T. 0.006 min

Lab File: VN065145.D

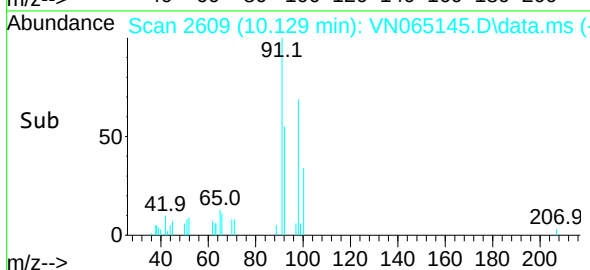
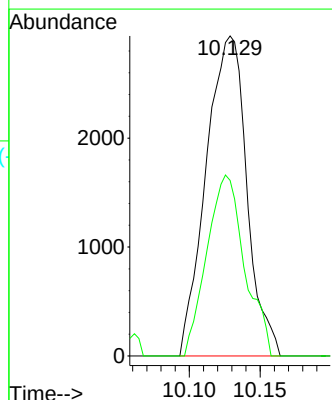
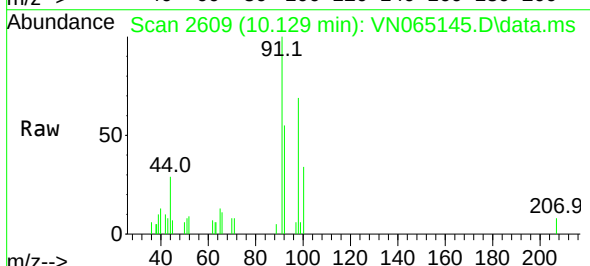
Acq: 15 Dec 2020 15:19

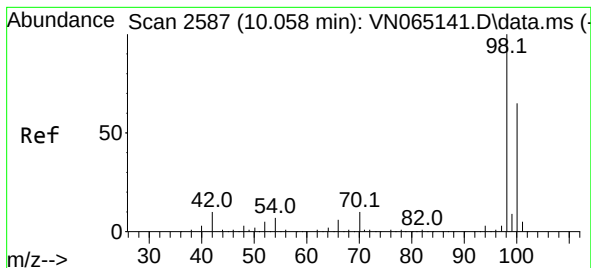
Tgt Ion: 91 Resp: 5878

Ion Ratio Lower Upper

91 100

92 52.4 45.4 68.2

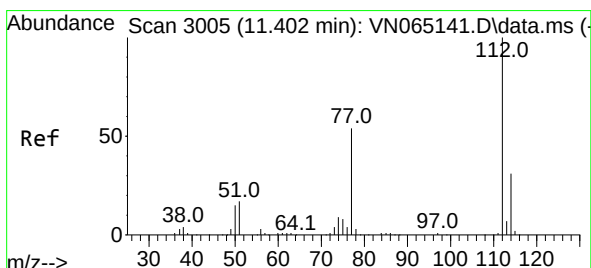
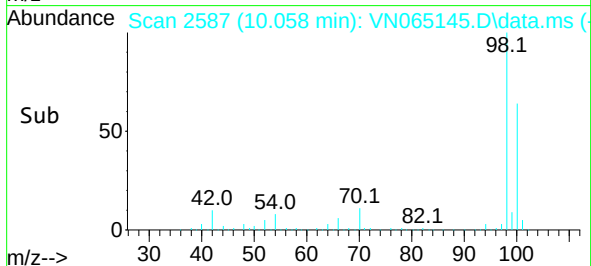
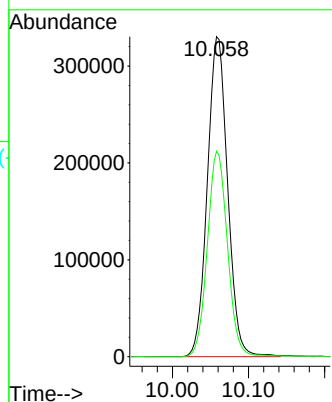
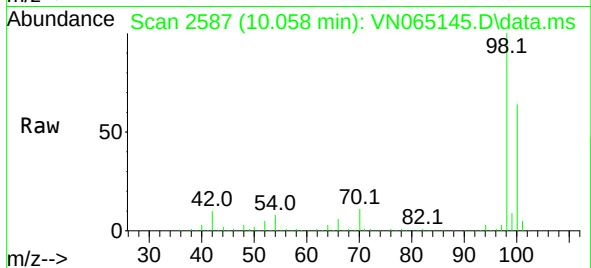




#63  
Toluene-d8  
Concen: 28.27 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

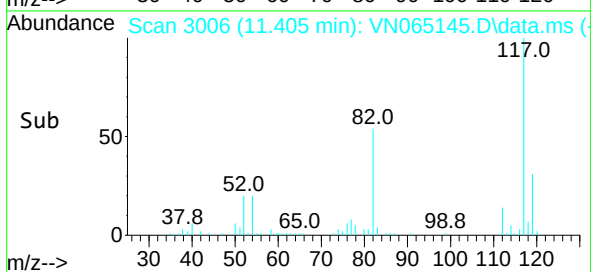
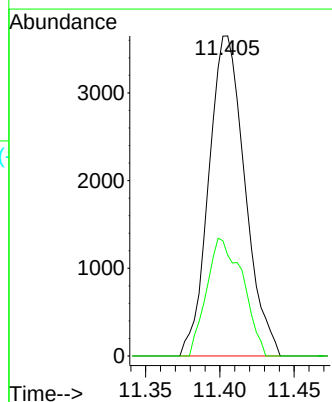
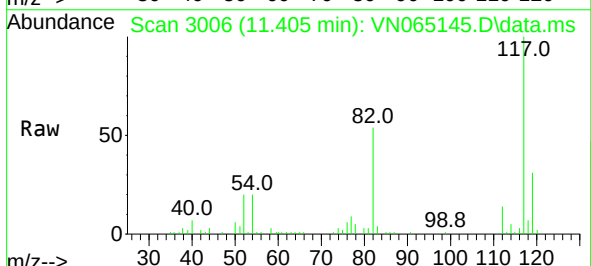
Instrument :  
MSVOA\_N  
ClientSampled :

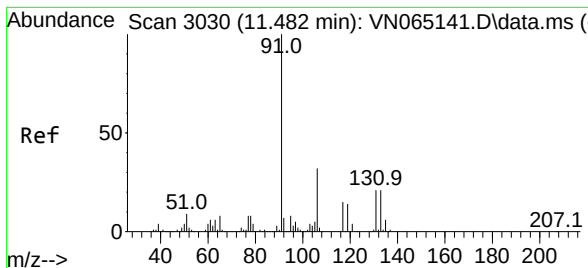
Tgt Ion: 98 Resp: 611820  
Ion Ratio Lower Upper  
98 100  
100 63.3 49.4 74.2



#64  
Chlorobenzene  
Concen: 0.40 ug/l  
RT: 11.405 min Scan# 3006  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion:112 Resp: 6176  
Ion Ratio Lower Upper  
112 100  
114 31.5 25.0 37.6

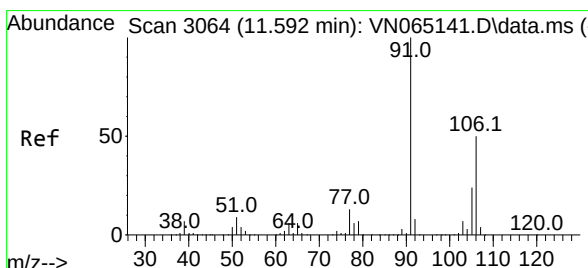
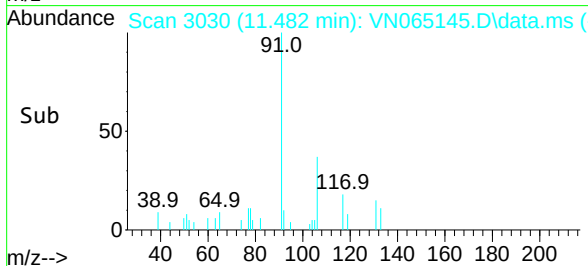
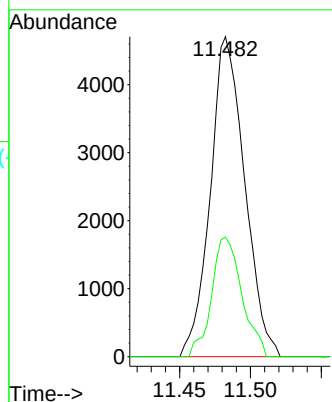
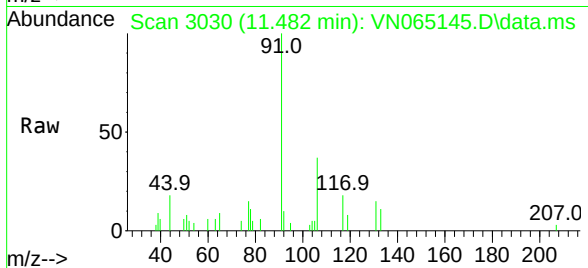




#66  
Ethyl Benzene  
Concen: 0.30 ug/l  
RT: 11.482 min Scan# 3030  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

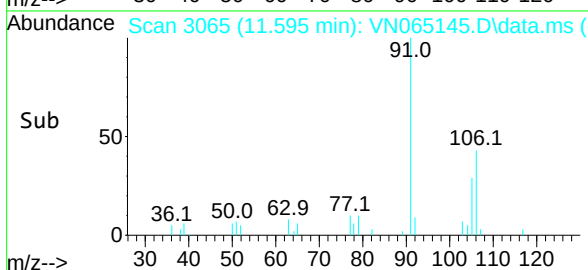
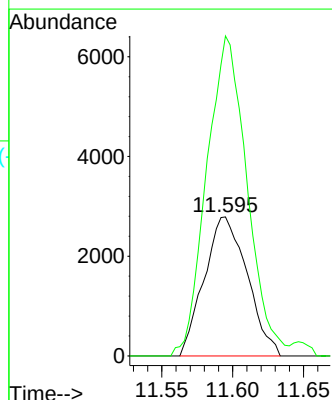
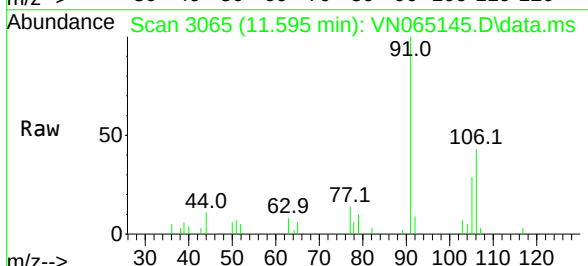
Instrument :  
MSVOA\_N  
ClientSampled :

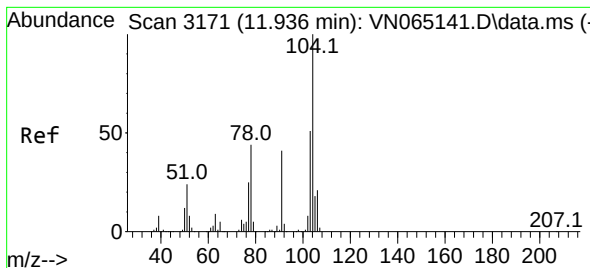
Tgt Ion: 91 Resp: 7933  
Ion Ratio Lower Upper  
91 100  
106 37.3 23.9 35.9#



#67  
m/p-Xylenes  
Concen: 0.57 ug/l  
RT: 11.595 min Scan# 3065  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion:106 Resp: 5882  
Ion Ratio Lower Upper  
106 100  
91 215.9 168.8 253.2





#69

Styrene

Concen: 0.27 ug/l

RT: 11.936 min Scan# 3171

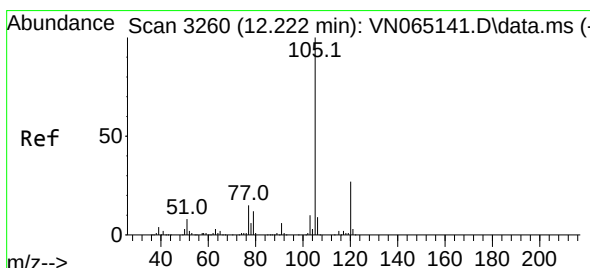
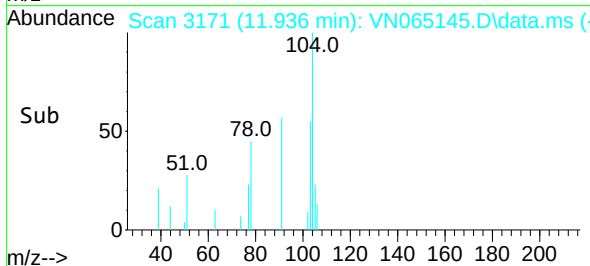
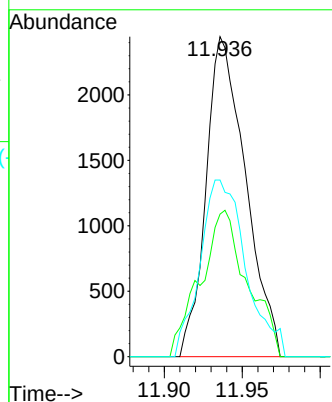
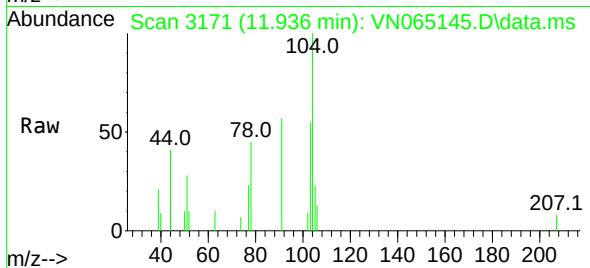
Delta R.T. -0.000 min

Lab File: VN065145.D

Acq: 15 Dec 2020 15:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 104   | Resp: | 4321  |
| Ion      | Ratio | Lower | Upper |
| 104      | 100   |       |       |
| 78       | 24.1  | 44.4  | 66.6# |
| 103      | 62.9  | 44.6  | 67.0  |

Instrument :  
MSVOA\_N  
ClientSampleId :



#70

Isopropylbenzene

Concen: 0.29 ug/l

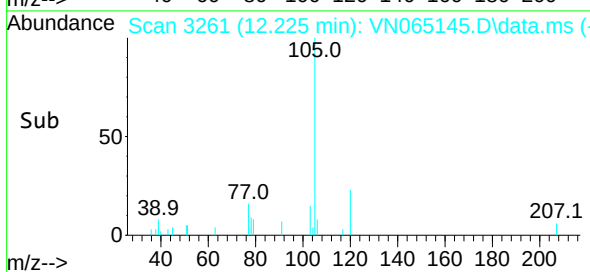
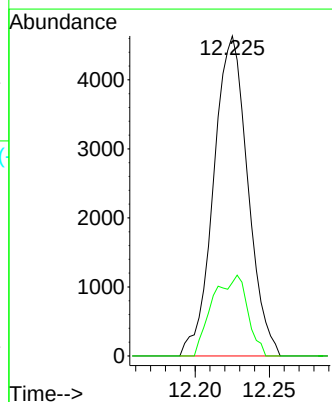
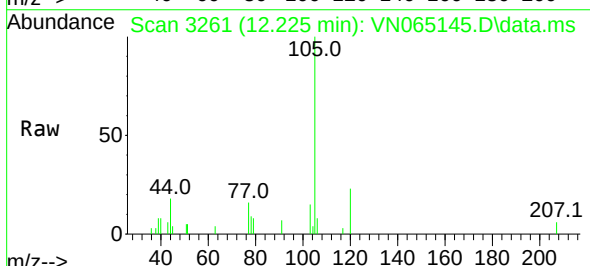
RT: 12.225 min Scan# 3261

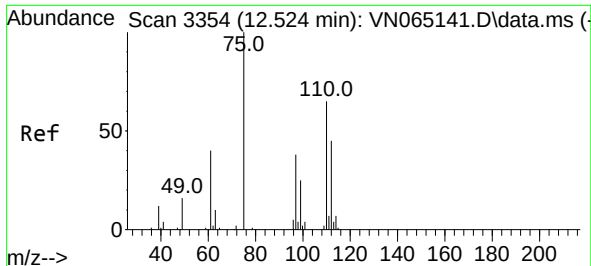
Delta R.T. 0.003 min

Lab File: VN065145.D

Acq: 15 Dec 2020 15:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 7415  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 12.6  | 17.9  | 33.3# |

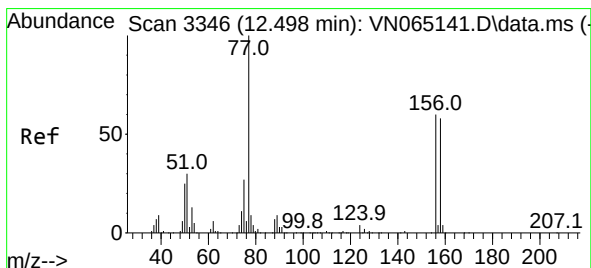
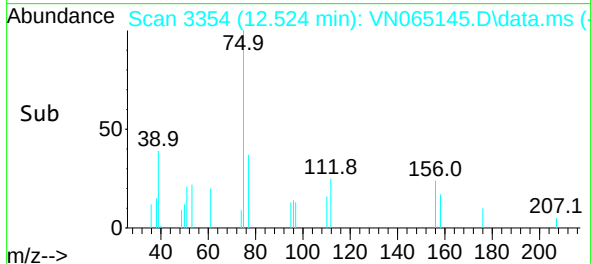
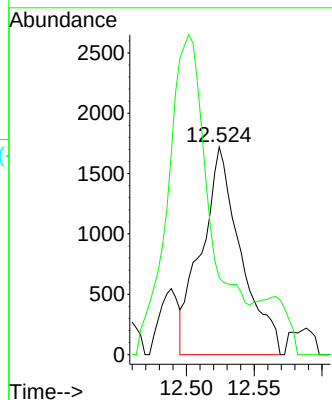
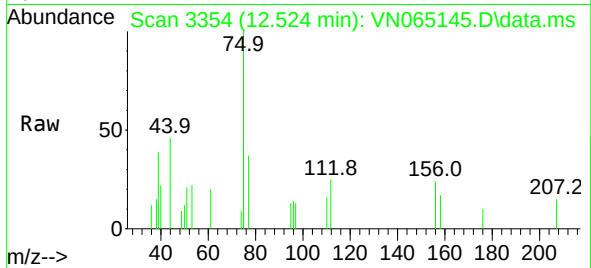




#72  
1,2,3-Trichloropropane  
Concen: 0.49 ug/l  
RT: 12.524 min Scan# 3354  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

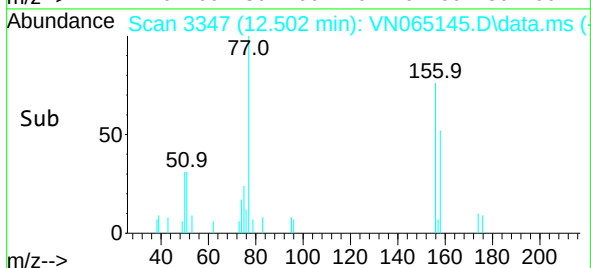
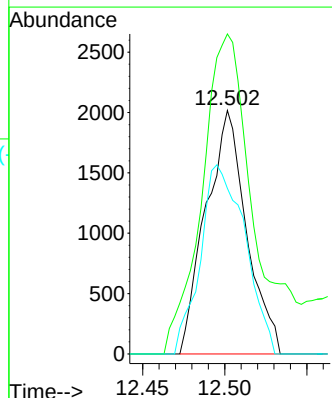
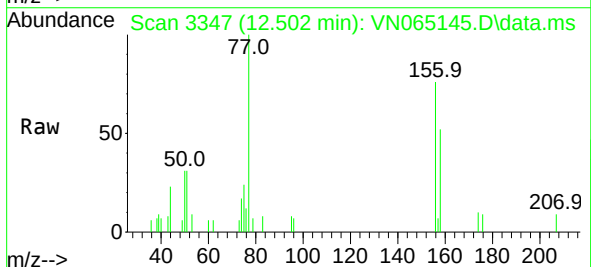
Instrument :  
MSVOA\_N  
ClientSampleId :

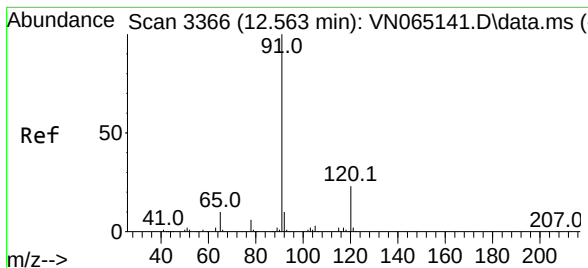
Tgt Ion: 75 Resp: 3457  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 379.4



#73  
Bromobenzene  
Concen: 0.53 ug/l  
RT: 12.502 min Scan# 3347  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion:156 Resp: 3470  
Ion Ratio Lower Upper  
156 100  
77 156.5 0.0 480.2  
158 85.5 0.0 194.0

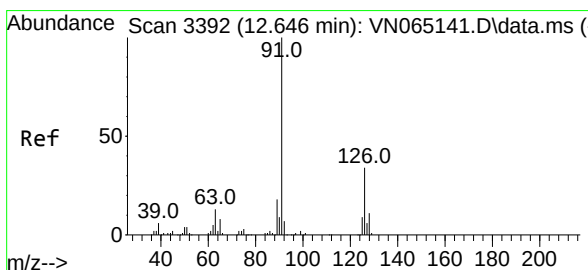
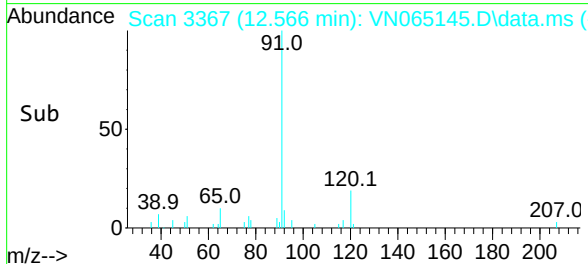
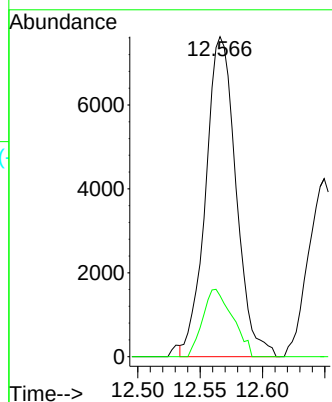
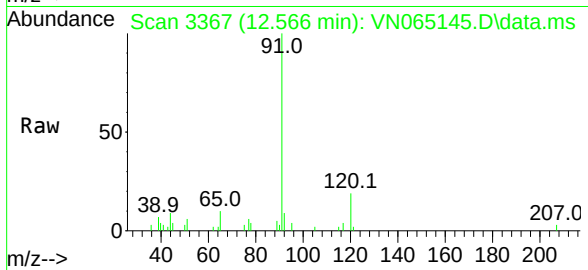




#74  
n-propylbenzene  
Concen: 0.45 ug/l  
RT: 12.566 min Scan# 3367  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

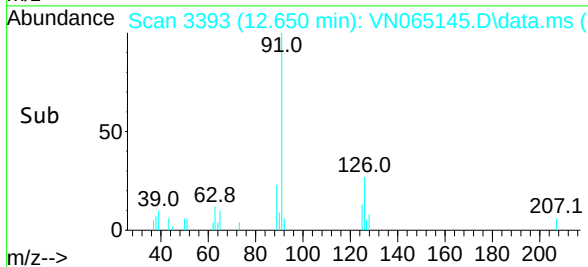
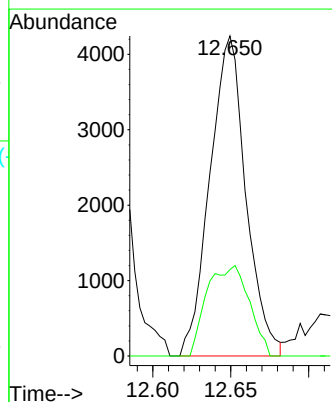
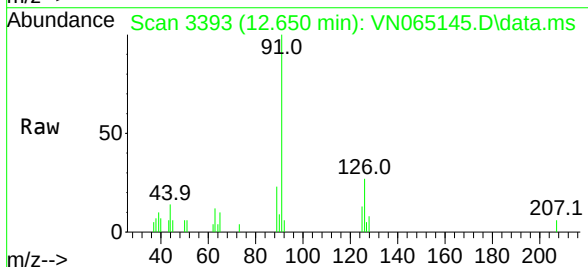
Instrument :  
MSVOA\_N  
ClientSampled :

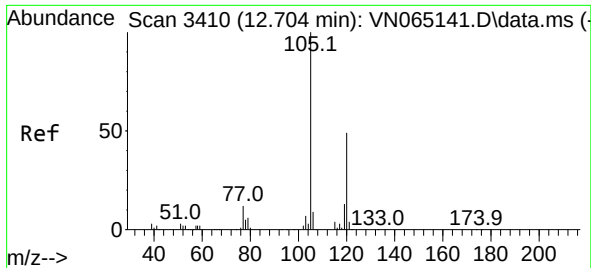
Tgt Ion: 91 Resp: 12938  
Ion Ratio Lower Upper  
91 100  
120 20.7 0.0 42.8



#75  
2-Chlorotoluene  
Concen: 0.39 ug/l  
RT: 12.650 min Scan# 3393  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 91 Resp: 6828  
Ion Ratio Lower Upper  
91 100  
126 13.3 0.0 61.8

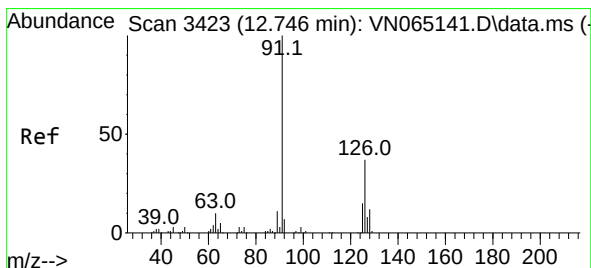
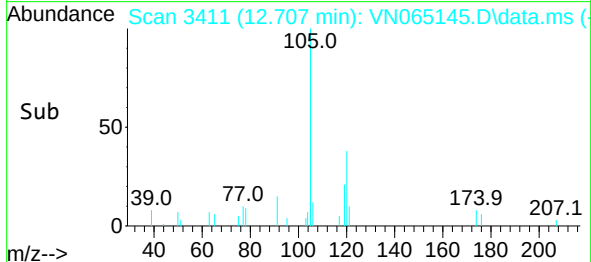
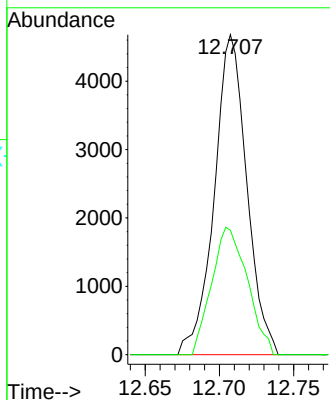
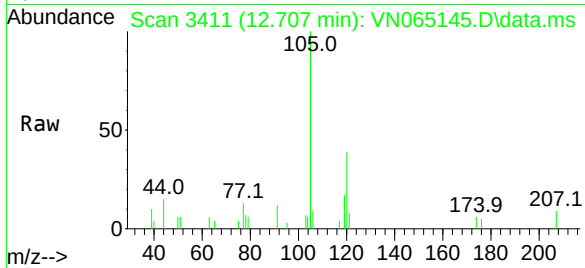




#76  
1,3,5-Trimethylbenzene  
Concen: 0.33 ug/l  
RT: 12.707 min Scan# 3411  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

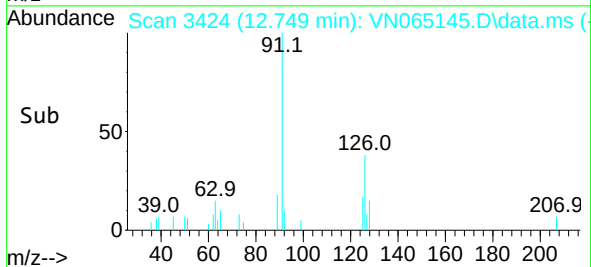
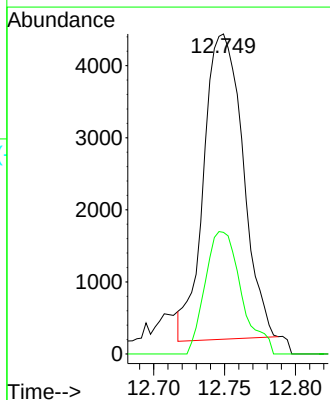
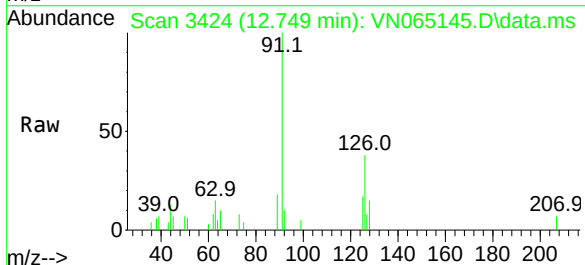
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:105 Resp: 7118  
Ion Ratio Lower Upper  
105 100  
120 43.8 0.0 90.4

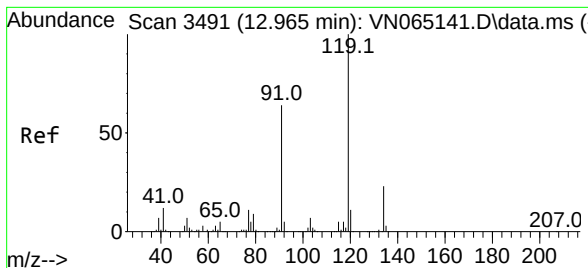


#78  
4-Chlorotoluene  
Concen: 0.45 ug/l  
RT: 12.749 min Scan# 3424  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion: 91 Resp: 8148  
Ion Ratio Lower Upper  
91 100  
126 37.0 0.0 61.8



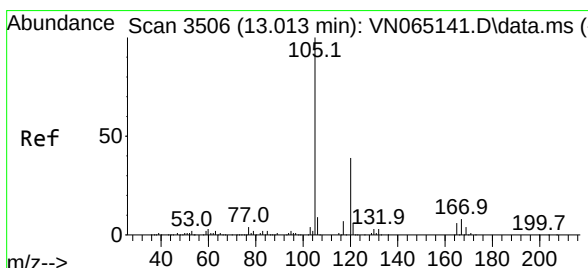
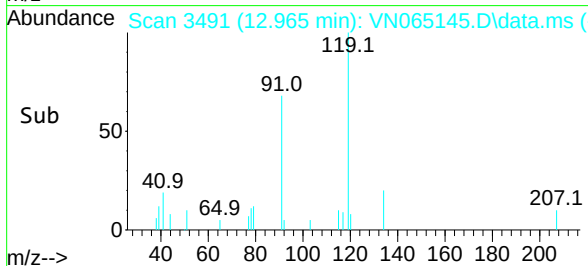
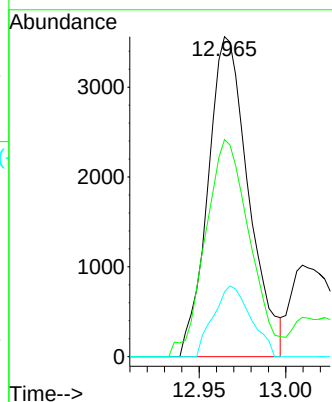
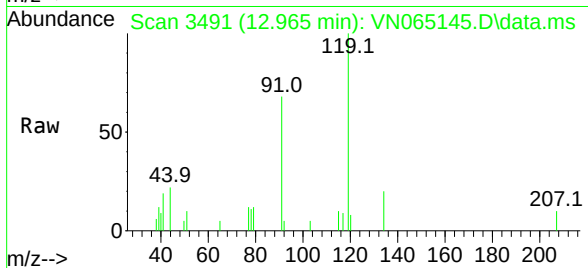




#79  
tert-butylbenzene  
Concen: 0.32 ug/l  
RT: 12.965 min Scan# 3491  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

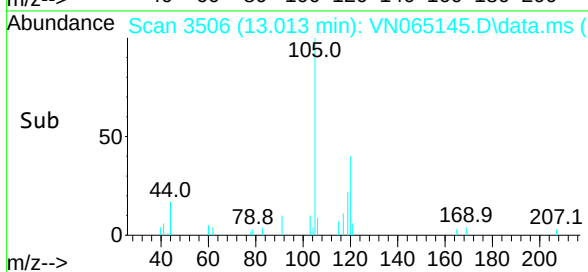
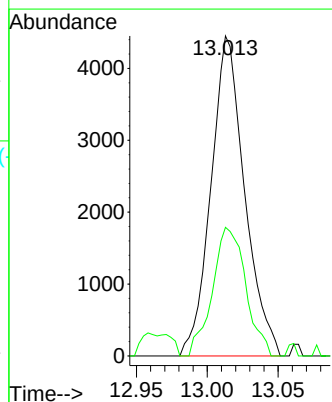
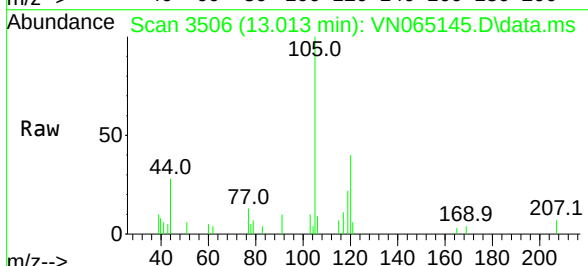
Instrument :  
MSVOA\_N  
ClientSampleId :

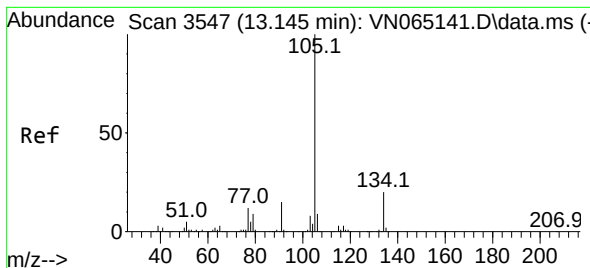
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 5814  |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 67.4  | 0.0   | 147.8 |
| 134       | 20.4  | 0.0   | 50.6  |



#80  
1,2,4-Trimethylbenzene  
Concen: 0.34 ug/l  
RT: 13.013 min Scan# 3506  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 7352 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 39.7  | 0.0   | 88.6 |

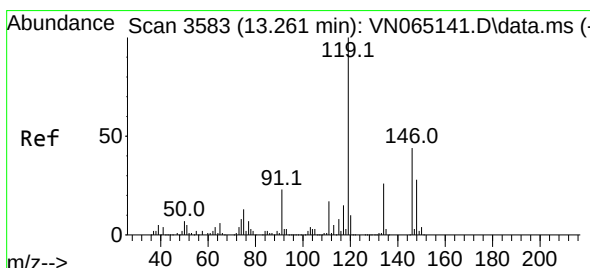
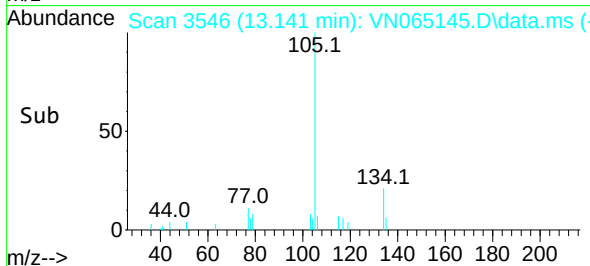
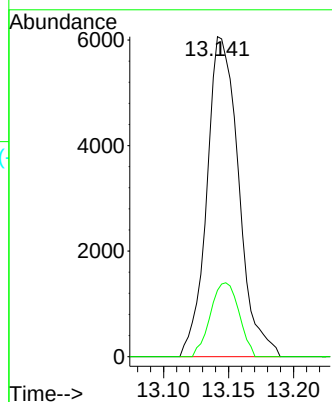
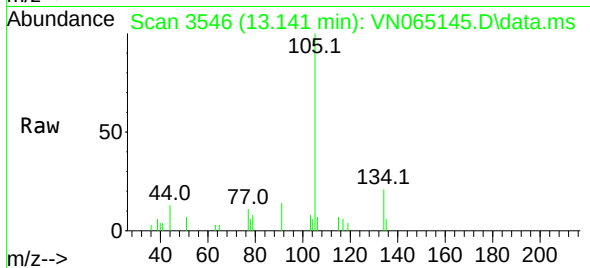




#81  
 sec-Butylbenzene  
 Concen: 0.43 ug/l  
 RT: 13.141 min Scan# 3546  
 Delta R.T. -0.003 min  
 Lab File: VN065145.D  
 Acq: 15 Dec 2020 15:19

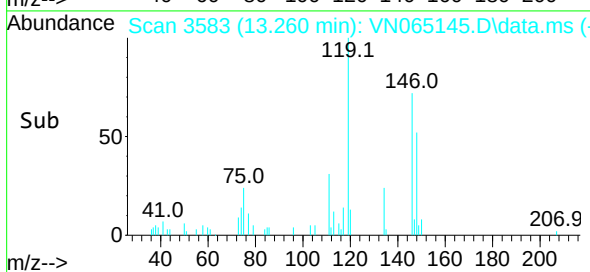
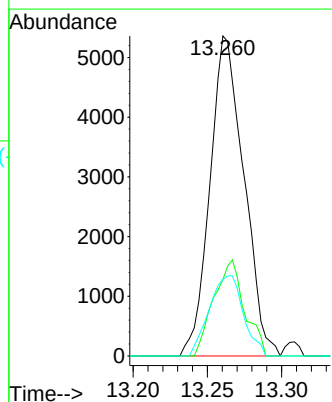
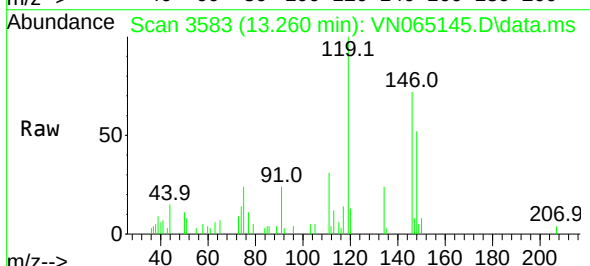
Instrument :  
 MSVOA\_N  
 ClientSampled :

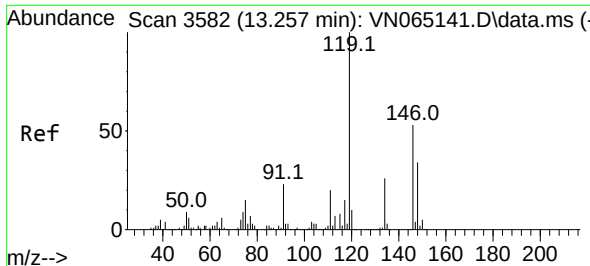
Tgt Ion:105 Resp: 10325  
 Ion Ratio Lower Upper  
 105 100  
 134 20.7 0.0 37.8



#82  
 p-Isopropyltoluene  
 Concen: 0.38 ug/l  
 RT: 13.260 min Scan# 3583  
 Delta R.T. -0.000 min  
 Lab File: VN065145.D  
 Acq: 15 Dec 2020 15:19

Tgt Ion:119 Resp: 8516  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 0.0 53.0  
 91 25.2 0.0 53.2

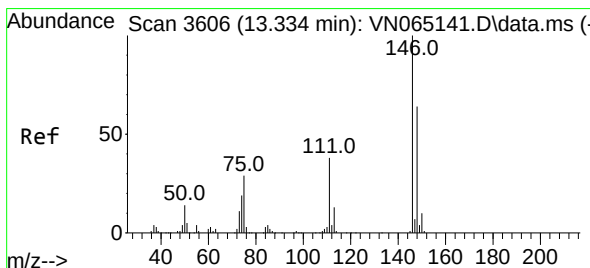
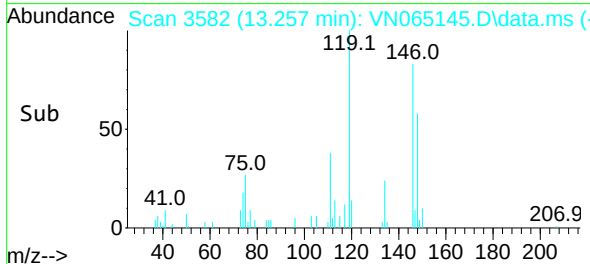
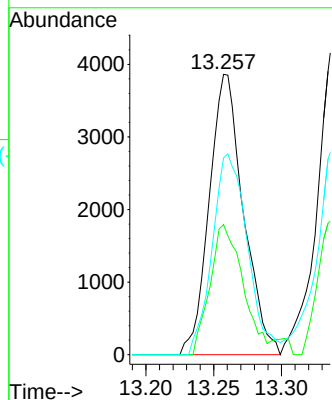
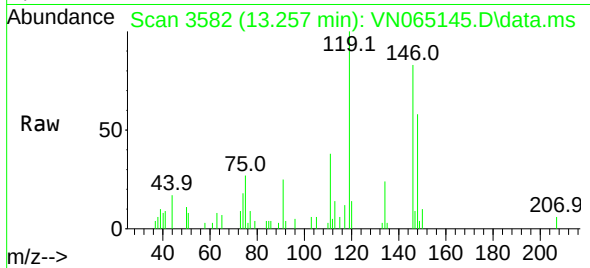




#83  
1,3-Dichlorobenzene  
Concen: 0.58 ug/l  
RT: 13.257 min Scan# 3582  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

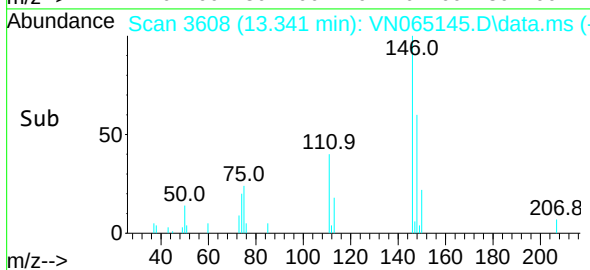
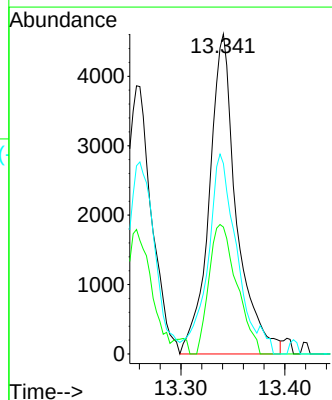
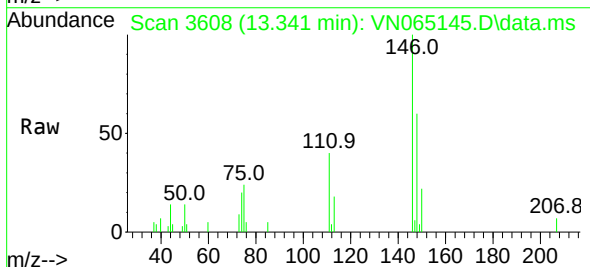
Instrument :  
MSVOA\_N  
ClientSampled :

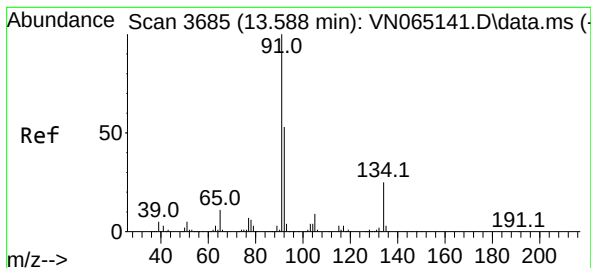
Tgt Ion:146 Resp: 6776  
Ion Ratio Lower Upper  
146 100  
111 44.6 22.3 66.9  
148 73.7 31.8 95.3



#84  
1,4-Dichlorobenzene  
Concen: 0.69 ug/l  
RT: 13.341 min Scan# 3608  
Delta R.T. 0.006 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion:146 Resp: 8411  
Ion Ratio Lower Upper  
146 100  
111 41.1 21.8 65.4  
148 64.0 31.5 94.5

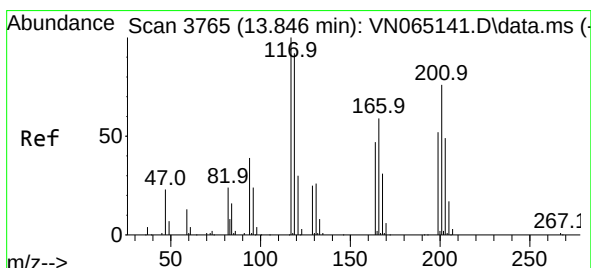
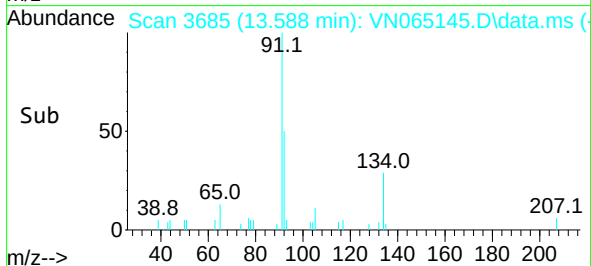
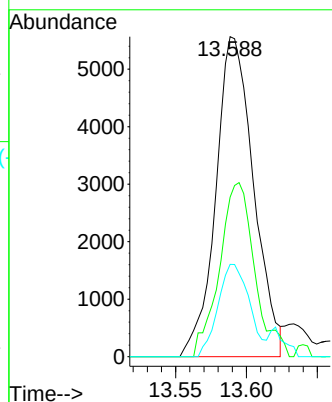
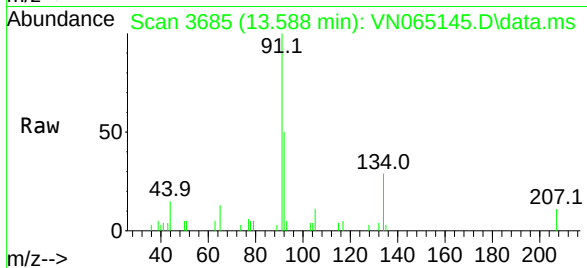




#85  
n-Butylbenzene  
Concen: 0.52 ug/l  
RT: 13.588 min Scan# 3685  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

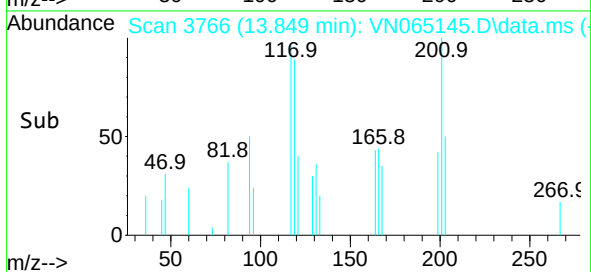
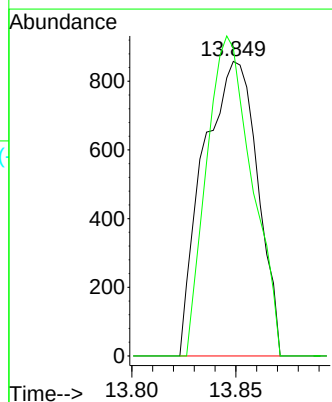
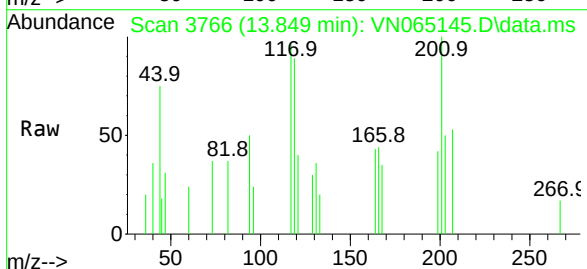
Instrument :  
MSVOA\_N  
ClientSampleId :

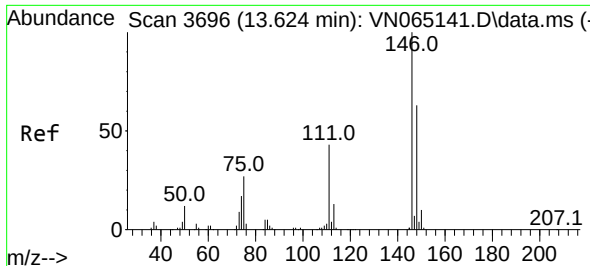
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 10338 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 47.6  | 0.0   | 101.4 |
| 134      | 24.2  | 0.0   | 45.2  |



#86  
Hexachloroethane  
Concen: 0.36 ug/l  
RT: 13.849 min Scan# 3766  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 1558  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 90.4  | 33.1  | 99.3  |





#87

1,2-Dichlorobenzene

Concen: 0.69 ug/l

RT: 13.341 min Scan# 3608

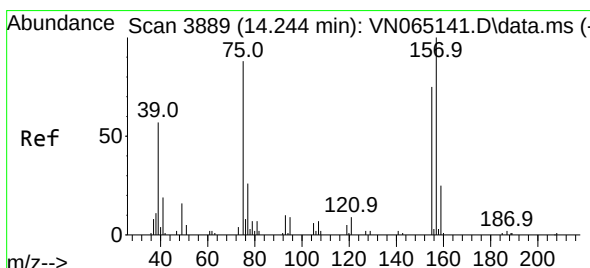
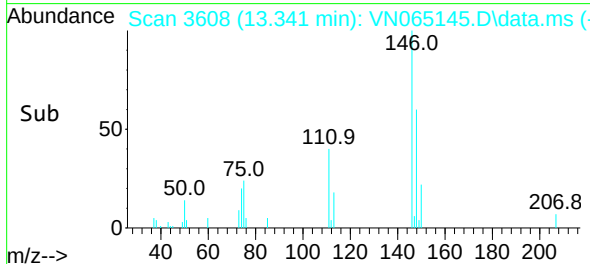
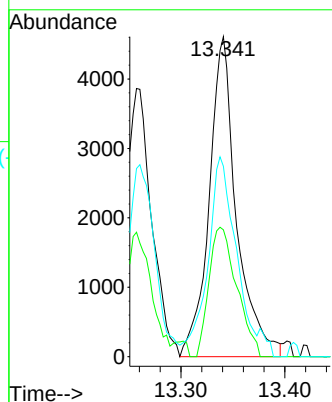
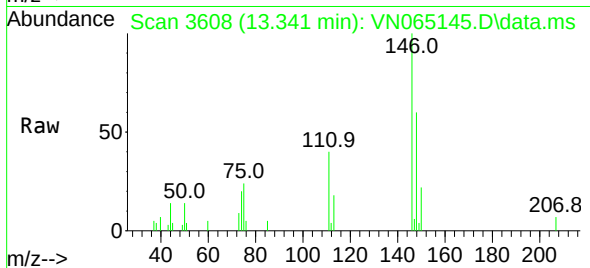
Delta R.T. -0.283 min

Lab File: VN065145.D

Acq: 15 Dec 2020 15:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 8411  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 41.1  | 23.1  | 69.2  |
| 148      | 64.0  | 32.6  | 97.8  |

Instrument :  
MSVOA\_N  
ClientSampled :



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.42 ug/l

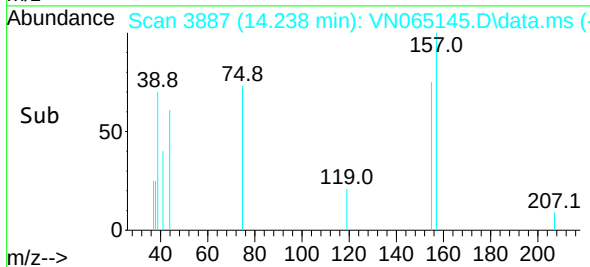
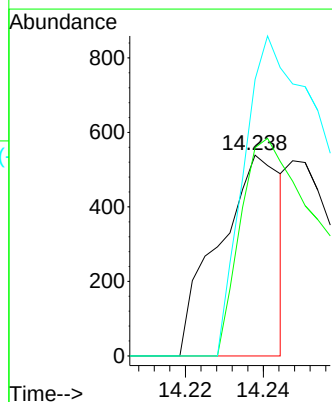
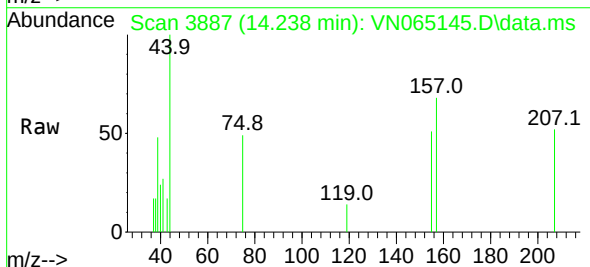
RT: 14.238 min Scan# 3887

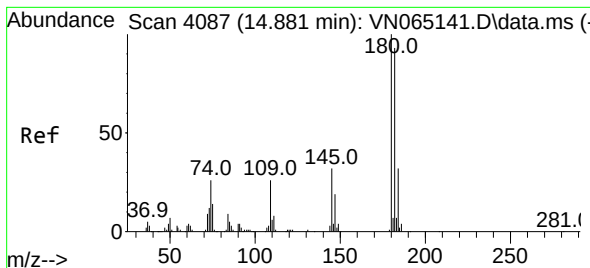
Delta R.T. -0.007 min

Lab File: VN065145.D

Acq: 15 Dec 2020 15:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 594    |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 154.7 | 56.5  | 84.7#  |
| 157      | 219.5 | 69.7  | 104.5# |

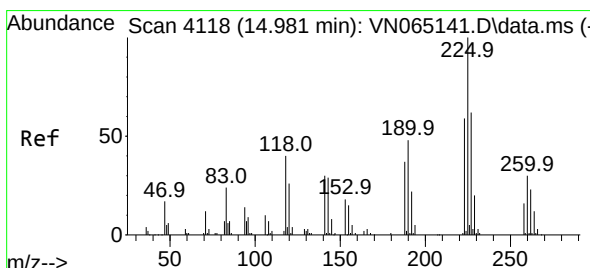
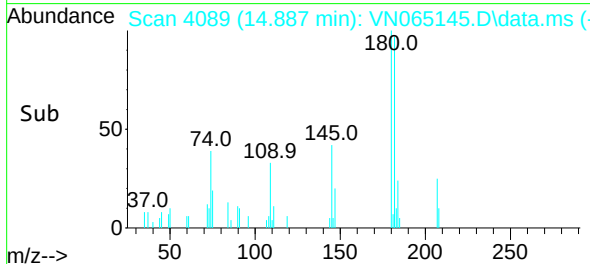
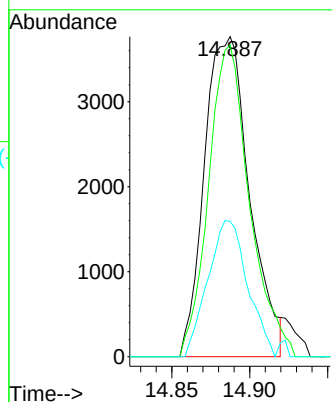
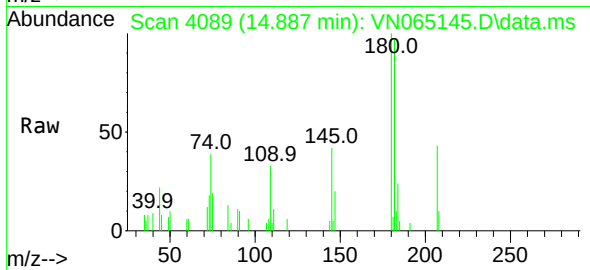




#89  
1,2,4-Trichlorobenzene  
Concen: 1.39 ug/l  
RT: 14.887 min Scan# 4089  
Delta R.T. 0.006 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

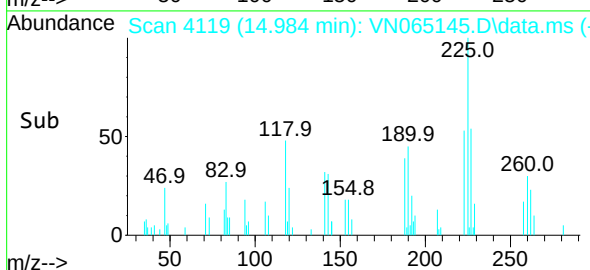
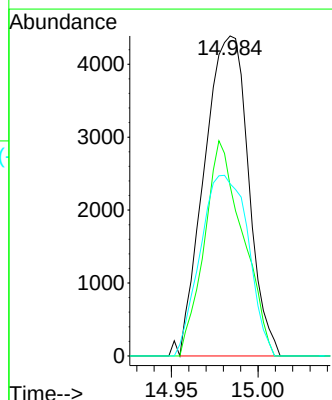
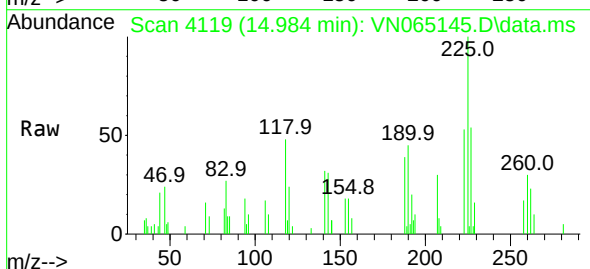
Instrument :  
MSVOA\_N  
ClientSampleId :

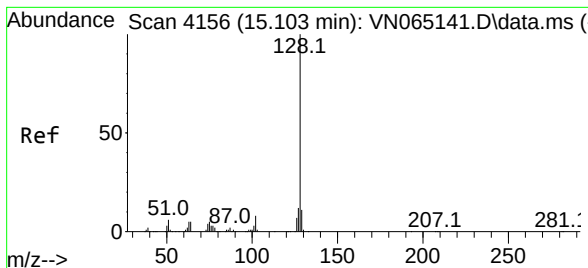
Tgt Ion:180 Resp: 7584  
Ion Ratio Lower Upper  
180 100  
182 88.5 79.4 119.0  
145 37.4 27.6 41.4



#90  
Hexachlorobutadiene  
Concen: 2.25 ug/l  
RT: 14.984 min Scan# 4119  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion:225 Resp: 7760  
Ion Ratio Lower Upper  
225 100  
223 58.9 0.0 125.4  
227 61.0 0.0 122.0

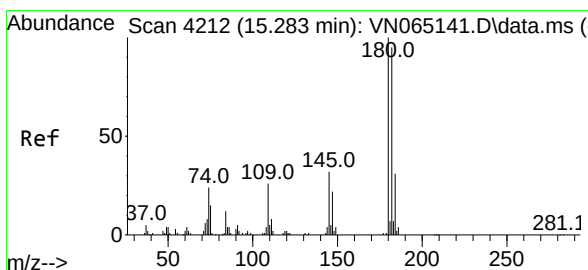
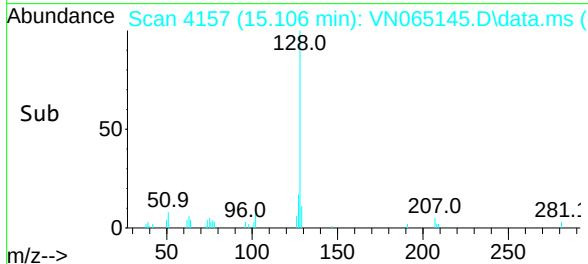
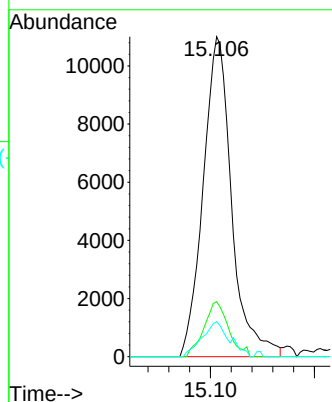
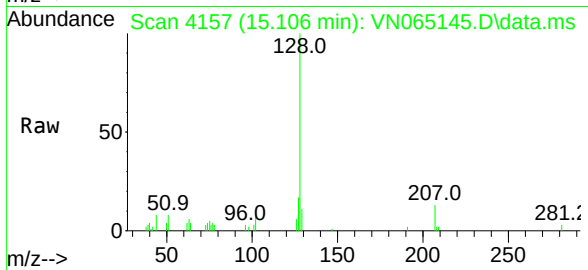




#91  
Naphthalene  
Concen: 1.35 ug/l  
RT: 15.106 min Scan# 4157  
Delta R.T. 0.003 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:128 Resp: 20903  
Ion Ratio Lower Upper  
128 100  
127 14.5 10.2 15.4  
129 8.9 8.5 12.7



#92  
1,2,3-Trichlorobenzene  
Concen: 1.90 ug/l  
RT: 15.283 min Scan# 4212  
Delta R.T. -0.000 min  
Lab File: VN065145.D  
Acq: 15 Dec 2020 15:19

Tgt Ion:180 Resp: 9789  
Ion Ratio Lower Upper  
180 100  
182 94.0 0.0 186.0  
145 34.7 0.0 69.6

