

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062221\  
 Data File : VN067440.D  
 Acq On : 22 Jun 2021 16:25  
 Operator : JC/MD  
 Sample : M2795-09  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 23 04:05:39 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 15 05:19:42 2021  
 Response via : Initial Calibration

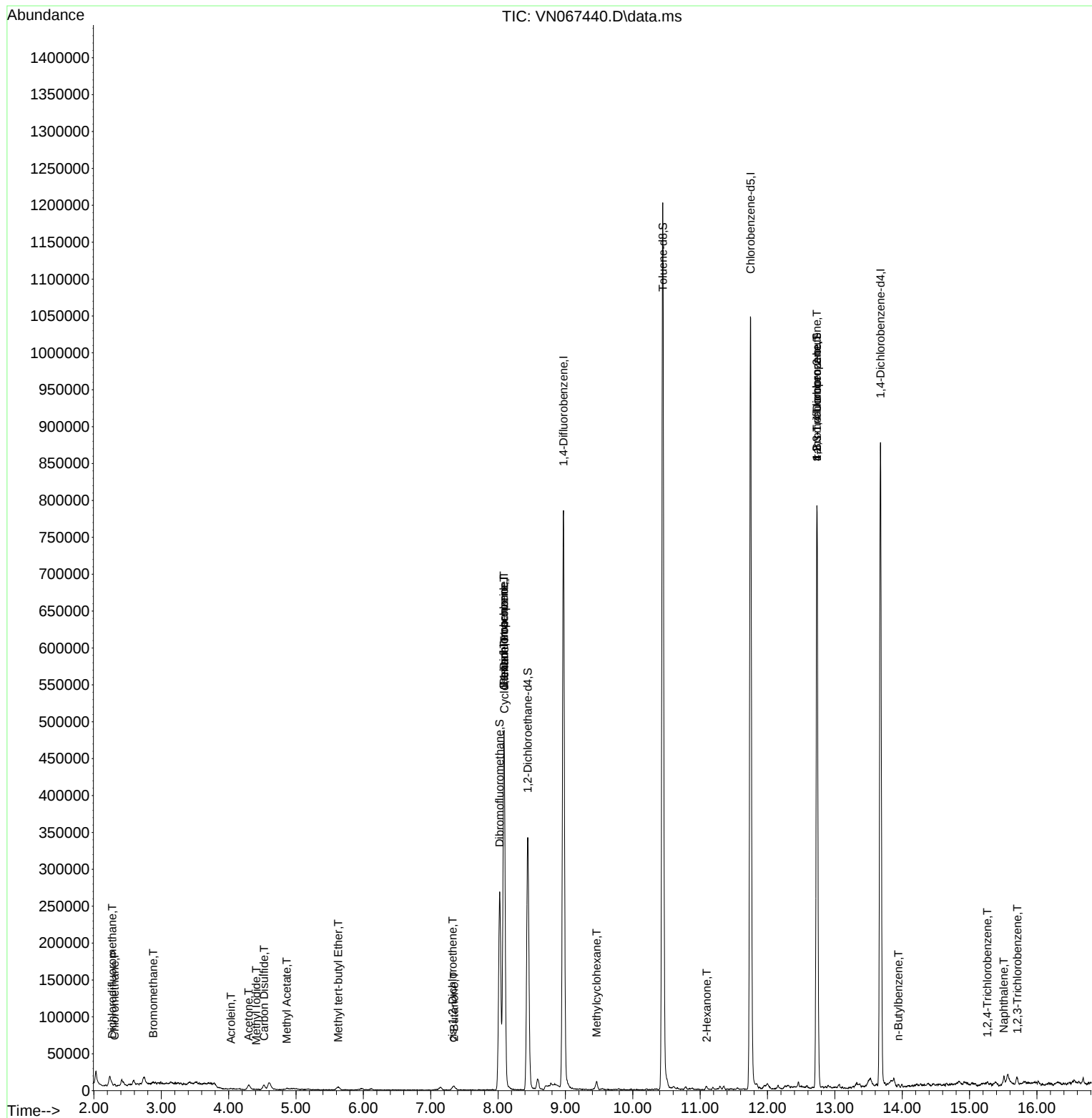
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.088  | 168   | 312264   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971  | 114   | 645042   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.749 | 117   | 571890   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678 | 152   | 203335   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440  | 65    | 280832   | 45.589   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 91.180%  |
| 35) Dibromofluoromethane      | 8.024  | 113   | 197352   | 46.002   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 92.000%  |
| 50) Toluene-d8                | 10.446 | 98    | 837930   | 50.960   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 101.920% |
| 62) 4-Bromofluorobenzene      | 12.734 | 95    | 293250   | 43.215   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 86.440%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.271  | 85    | 53       | 1.336    | ug/l # | 43       |
| 3) Chloromethane              | 2.306  | 50    | 2430     | 0.513    | ug/l   | 95       |
| 5) Bromomethane               | 2.880  | 94    | 1234     | 0.626    | ug/l # | 65       |
| 10) Methyl Iodide             | 4.411  | 142   | 474      | 6.847    | ug/l # | 33       |
| 13) Acrolein                  | 4.036  | 56    | 500      | 0.790    | ug/l # | 67       |
| 16) Acetone                   | 4.296  | 43    | 12025    | 5.087    | ug/l   | 96       |
| 17) Carbon Disulfide          | 4.527  | 76    | 12852    | 1.062    | ug/l # | 89       |
| 18) Methyl Acetate            | 4.865  | 43    | 2355     | 0.411    | ug/l # | 56       |
| 19) Methyl tert-butyl Ether   | 5.629  | 73    | 3427     | 0.228    | ug/l # | 69       |
| 25) 2-Butanone                | 7.346  | 43    | 2588     | 0.766    | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene    | 7.327  | 96    | 1731     | 0.354    | ug/l   | 90       |
| 31) Cyclohexane               | 8.094  | 56    | 14417    | 1.722    | ug/l # | 27       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 36006    | 4.979    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.086  | 117   | 38445    | 4.946    | ug/l # | 16       |
| 39) Methylcyclohexane         | 9.464  | 83    | 4530     | 0.592    | ug/l   | 92       |
| 59) 2-Hexanone                | 11.098 | 43    | 3965     | 0.684    | ug/l   | 87       |
| 76) 1,2,3-Trichloropropane    | 12.734 | 75    | 166015   | 31.441   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.734 | 75    | 166015   | 77.920   | ug/l # | 6        |
| 89) n-Butylbenzene            | 13.943 | 91    | 2824     | 0.201    | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180   | 1137     | 0.320    | ug/l   | 80       |
| 95) Naphthalene               | 15.507 | 128   | 8809     | 3.283    | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene    | 15.708 | 180   | 1046     | 0.307    | ug/l   | 82       |

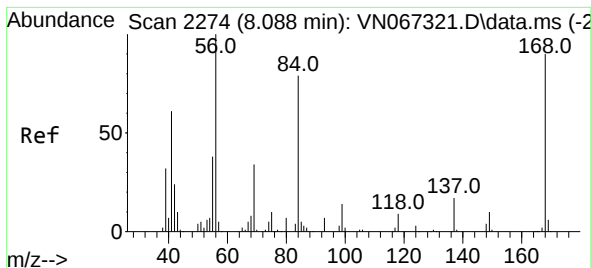
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062221\  
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Quant Title : SW846 8260  
QLast Update : Tue Jun 15 05:19:42 2021  
Response via : Initial Calibration

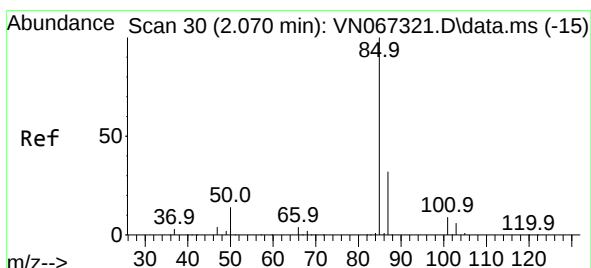
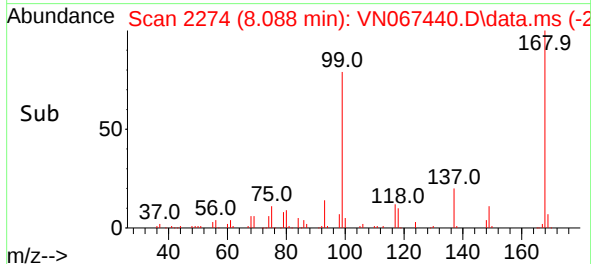
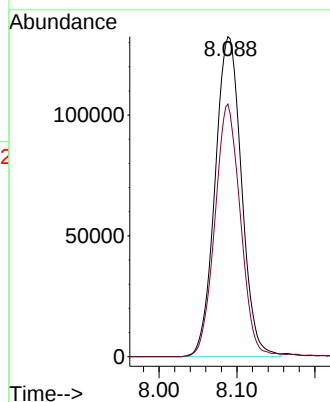
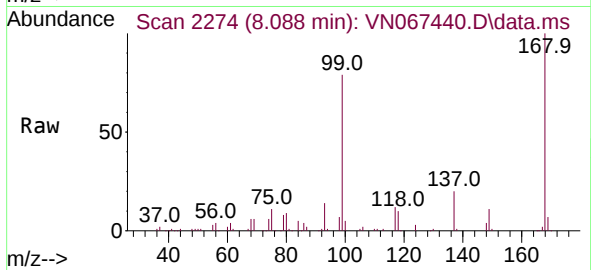




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

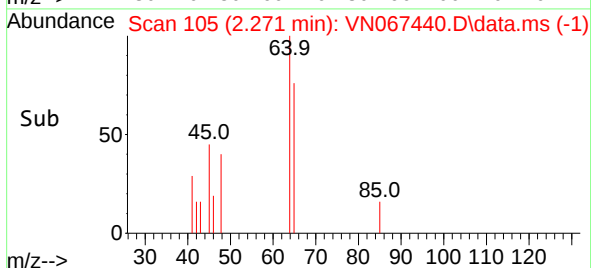
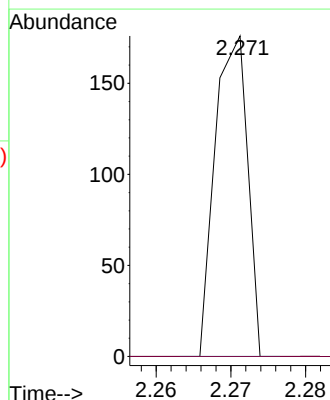
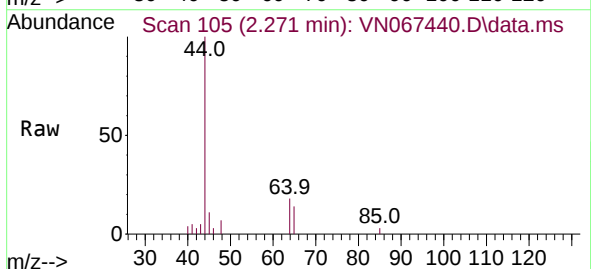
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MSVOA\_N  
ClientSampled :

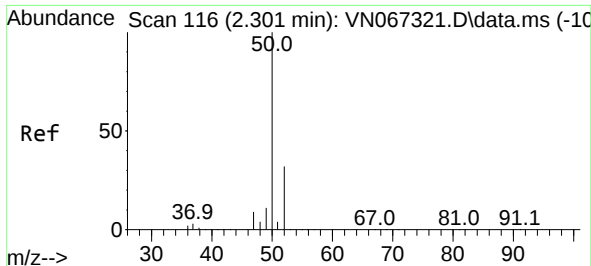
Tgt Ion:168 Resp: 312264  
Ion Ratio Lower Upper  
168 100  
99 79.0 62.9 94.3



#2  
Dichlorodifluoromethane  
Concen: 1.336 ug/l  
RT: 2.271 min Scan# 105  
Delta R.T. 0.201 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 85 Resp: 53  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#

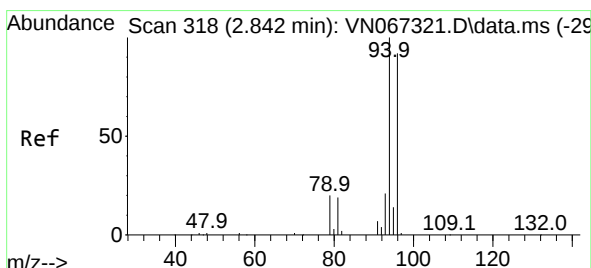
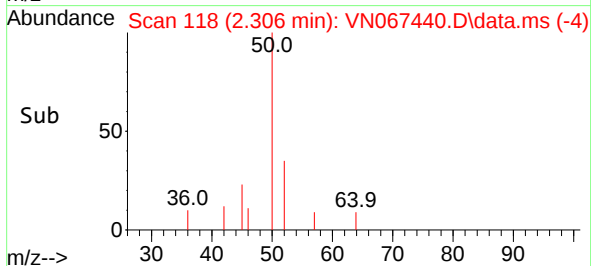
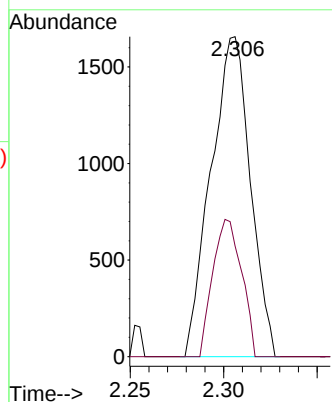
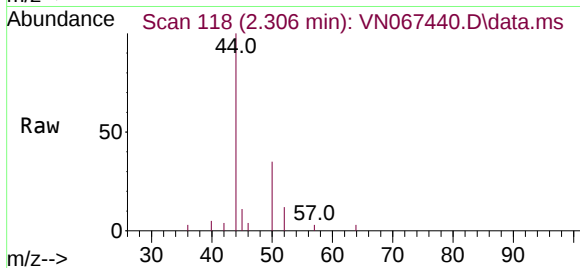




#3  
Chloromethane  
Concen: 0.513 ug/l  
RT: 2.306 min Scan# 118  
Delta R.T. 0.005 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

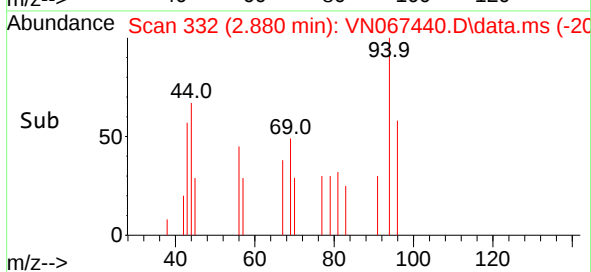
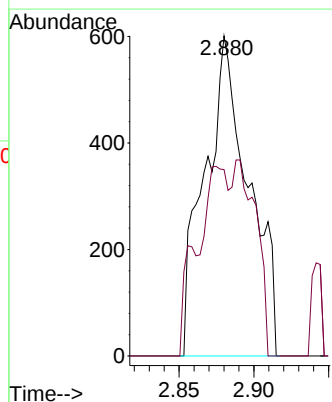
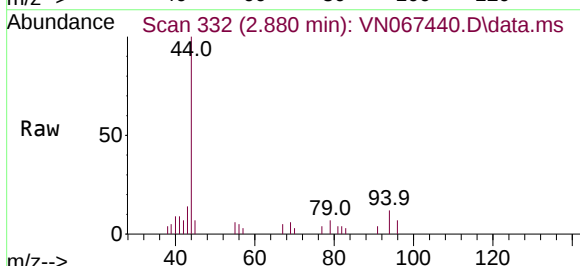
Instrument :  
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ClientSampled :

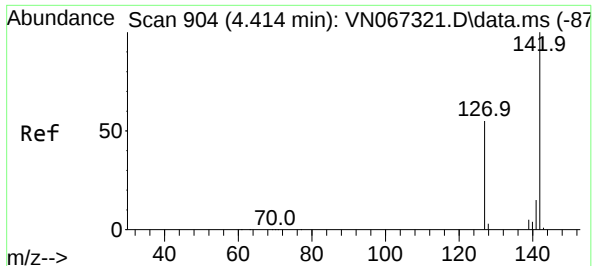
Tgt Ion: 50 Resp: 2430  
Ion Ratio Lower Upper  
50 100  
52 34.6 25.6 38.4



#5  
Bromomethane  
Concen: 0.626 ug/l  
RT: 2.880 min Scan# 332  
Delta R.T. 0.038 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 94 Resp: 1234  
Ion Ratio Lower Upper  
94 100  
96 58.2 73.7 110.5#

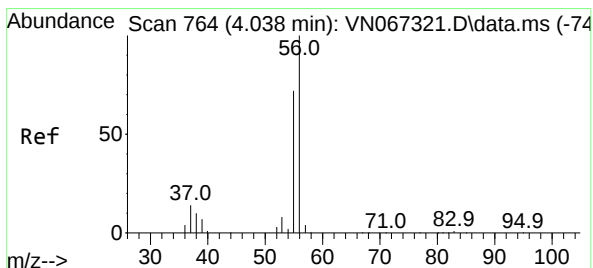
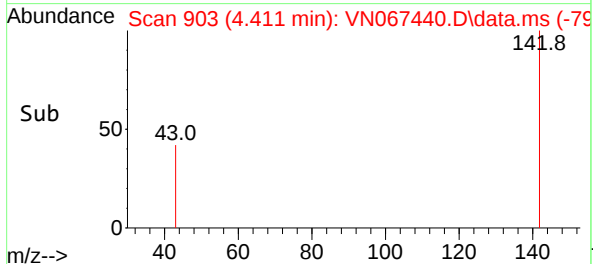
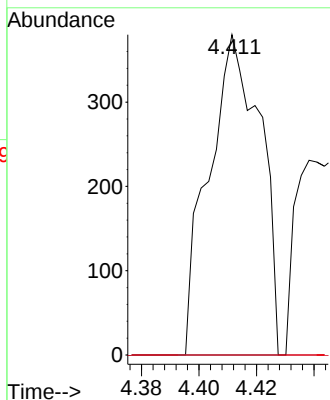
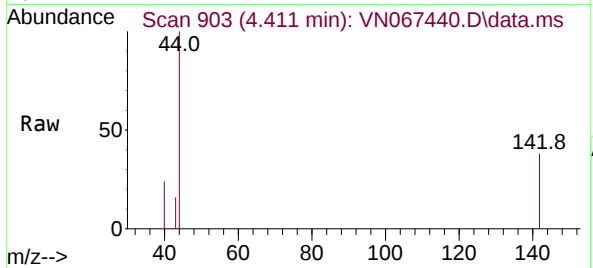




#10  
Methyl Iodide  
Concen: 6.847 ug/l  
RT: 4.411 min Scan# 903  
Delta R.T. -0.003 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

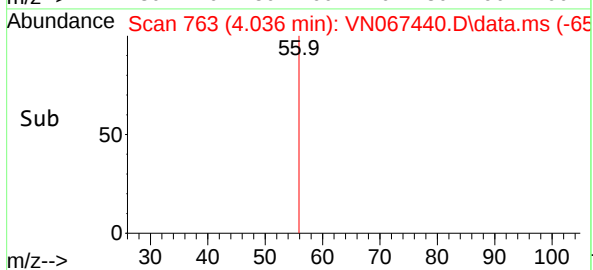
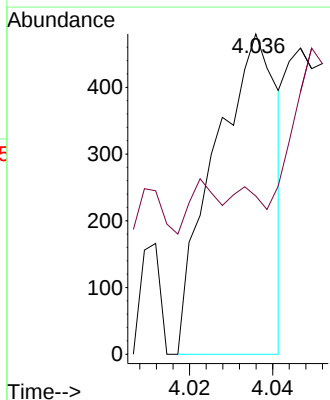
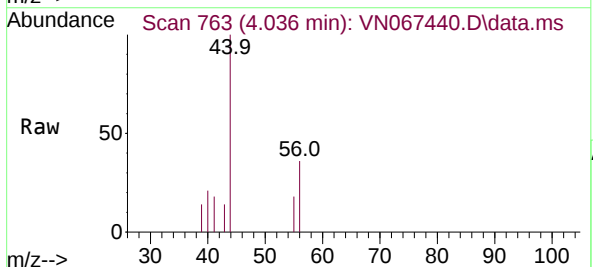
Instrument :  
MSVOA\_N  
ClientSampled :

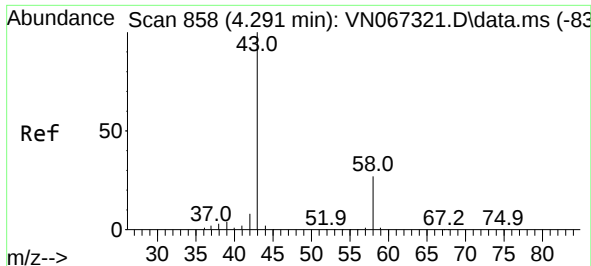
Tgt Ion:142 Resp: 474  
Ion Ratio Lower Upper  
142 100  
127 0.0 43.1 64.7#  
141 0.0 11.4 17.0#



#13  
Acrolein  
Concen: 0.790 ug/l  
RT: 4.036 min Scan# 763  
Delta R.T. -0.002 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 56 Resp: 500  
Ion Ratio Lower Upper  
56 100  
55 98.8 57.4 86.0#

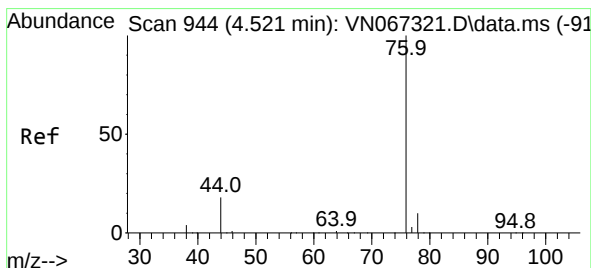
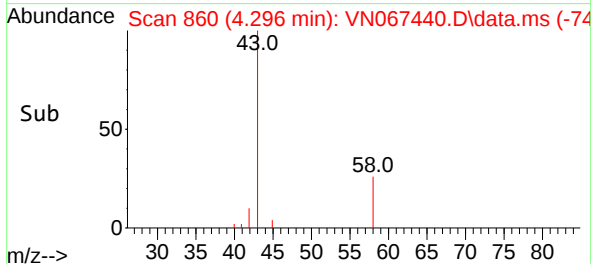
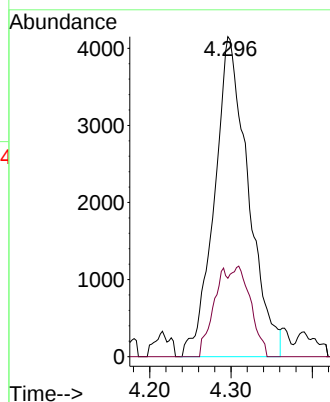
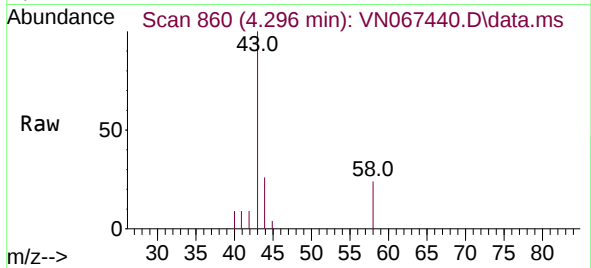




#16  
Acetone  
Concen: 5.087 ug/l  
RT: 4.296 min Scan# 860  
Delta R.T. 0.005 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

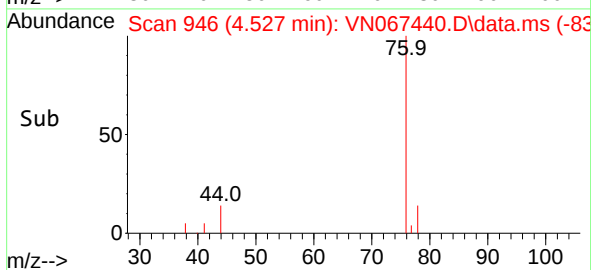
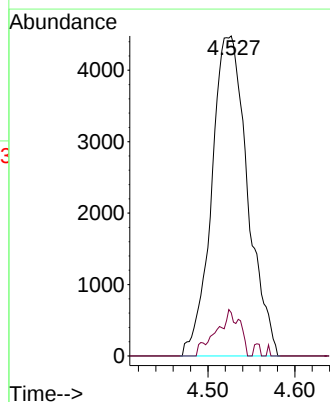
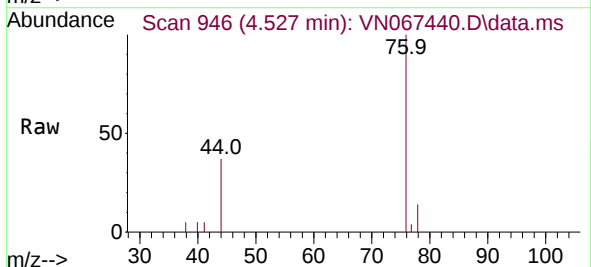
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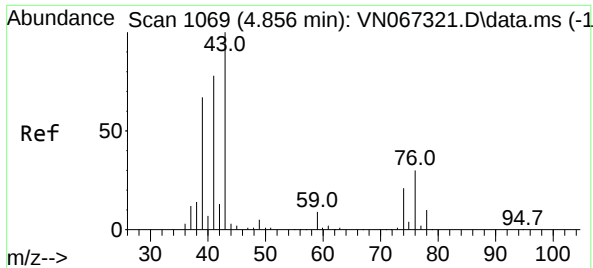
Tgt Ion: 43 Resp: 12025  
Ion Ratio Lower Upper  
43 100  
58 24.5 21.2 31.8



#17  
Carbon Disulfide  
Concen: 1.062 ug/l  
RT: 4.527 min Scan# 946  
Delta R.T. 0.006 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 76 Resp: 12852  
Ion Ratio Lower Upper  
76 100  
78 13.5 7.7 11.5#

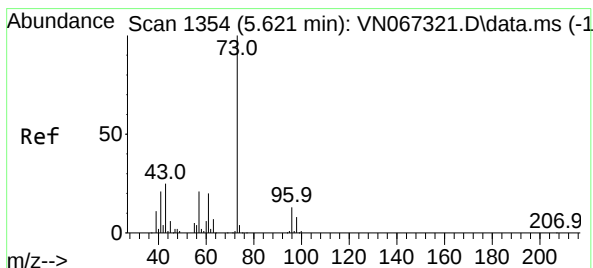
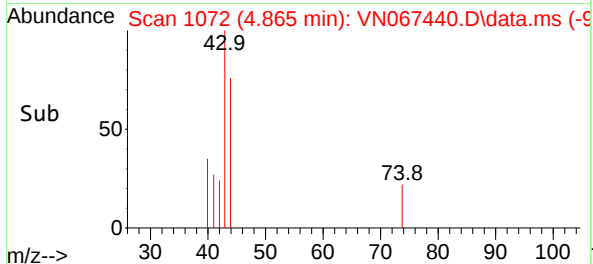
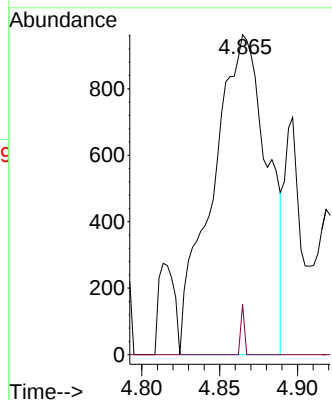
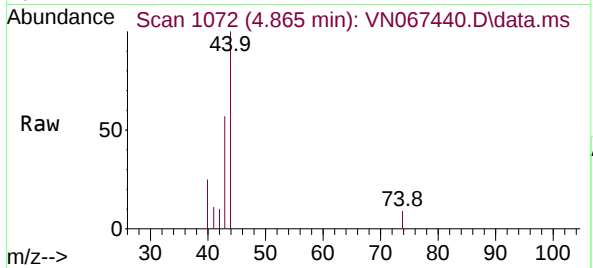




#18  
Methyl Acetate  
Concen: 0.411 ug/l  
RT: 4.865 min Scan# 1072  
Delta R.T. 0.009 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

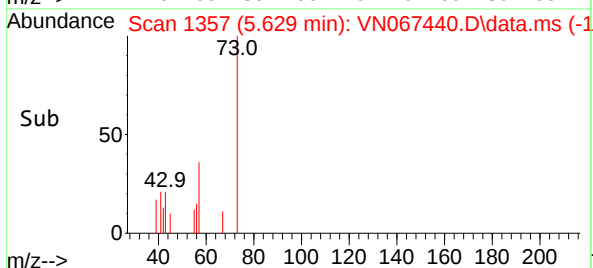
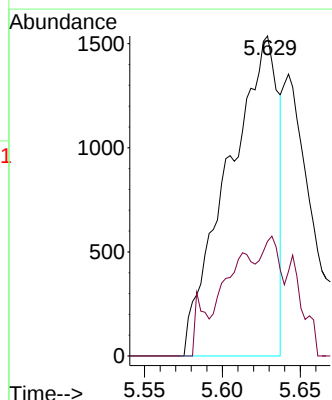
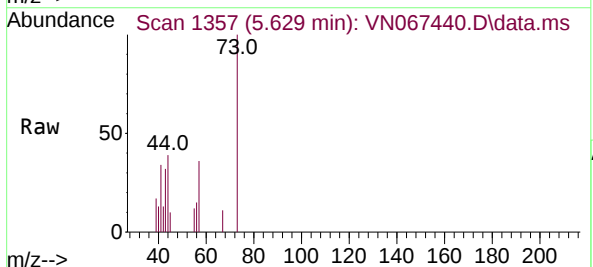
Instrument :  
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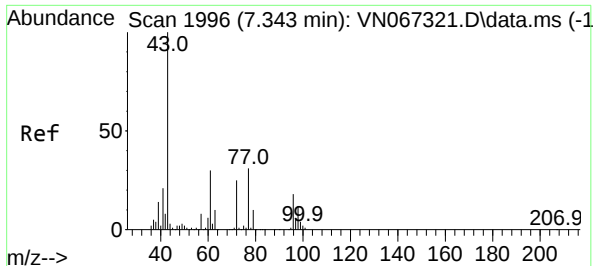
Tgt Ion: 43 Resp: 2355  
Ion Ratio Lower Upper  
43 100  
74 1.0 17.4 26.0#



#19  
Methyl tert-butyl Ether  
Concen: 0.228 ug/l  
RT: 5.629 min Scan# 1357  
Delta R.T. 0.008 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 73 Resp: 3427  
Ion Ratio Lower Upper  
73 100  
57 35.8 17.0 25.6#

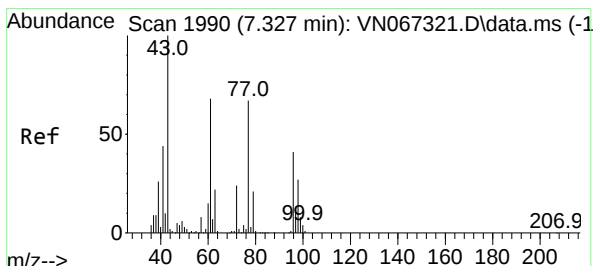
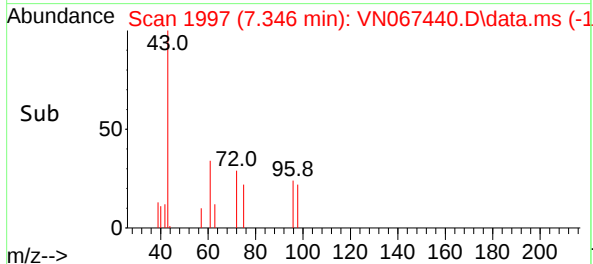
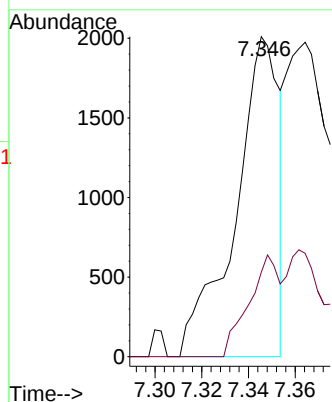
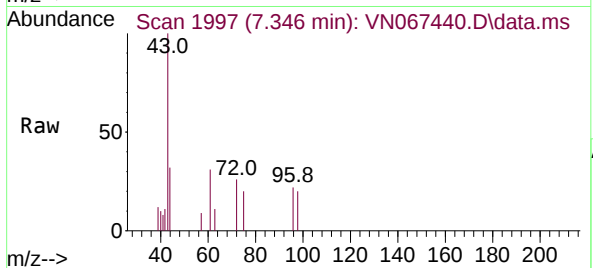




#25  
2-Butanone  
Concen: 0.766 ug/l  
RT: 7.346 min Scan# 1997  
Delta R.T. 0.003 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

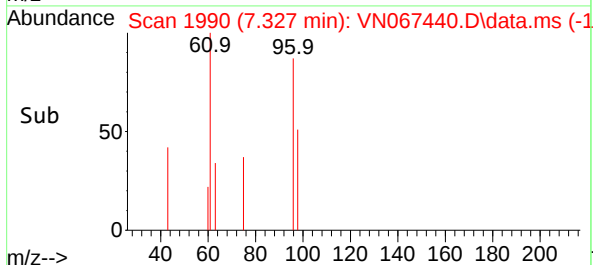
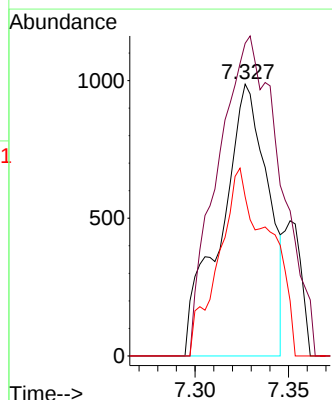
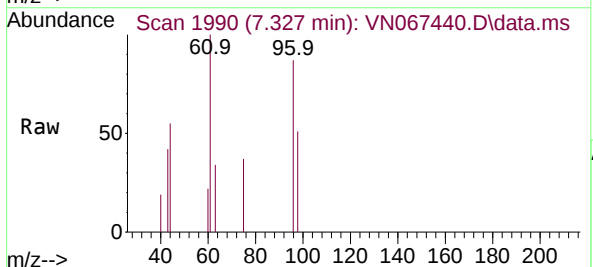
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MSVOA\_N  
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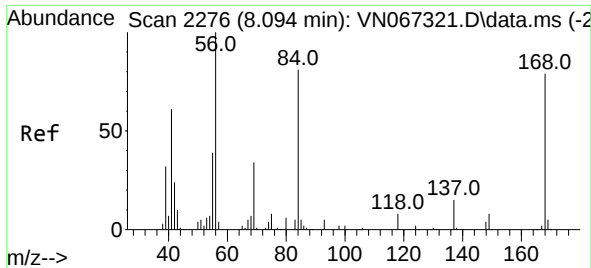
Tgt Ion: 43 Resp: 2588  
Ion Ratio Lower Upper  
43 100  
72 26.4 19.7 29.5



#27  
cis-1,2-Dichloroethene  
Concen: 0.354 ug/l  
RT: 7.327 min Scan# 1990  
Delta R.T. -0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 96 Resp: 1731  
Ion Ratio Lower Upper  
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61 156.2 0.0 338.8  
98 73.9 0.0 129.8

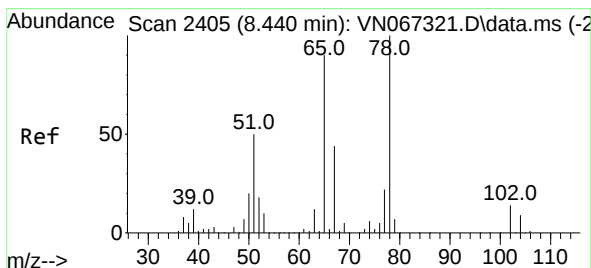
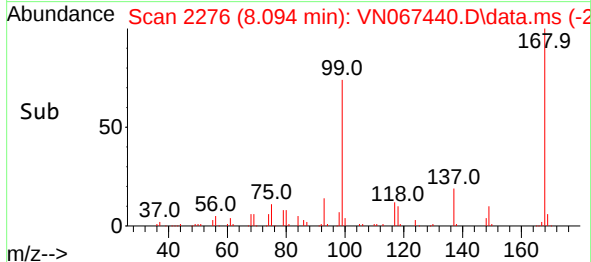
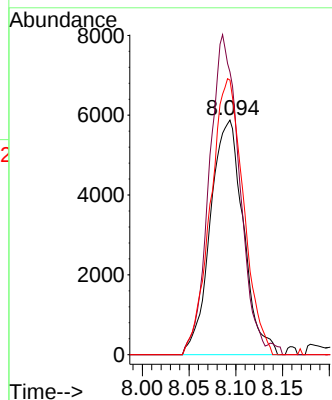
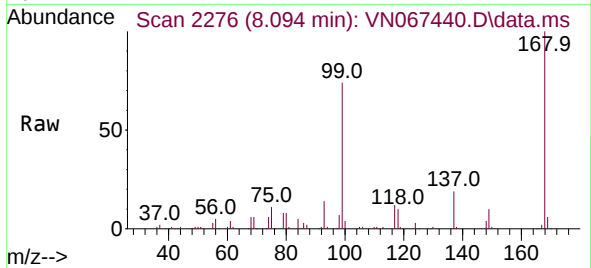




#31  
Cyclohexane  
Concen: 1.722 ug/l  
RT: 8.094 min Scan# 2276  
Delta R.T. -0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

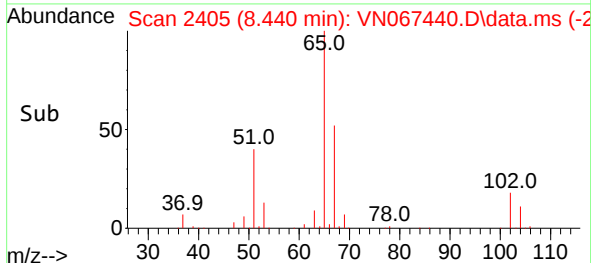
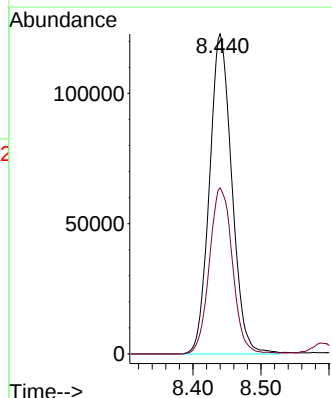
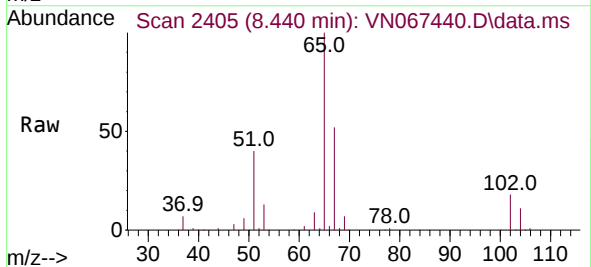
Instrument :  
MSVOA\_N  
ClientSampleId :

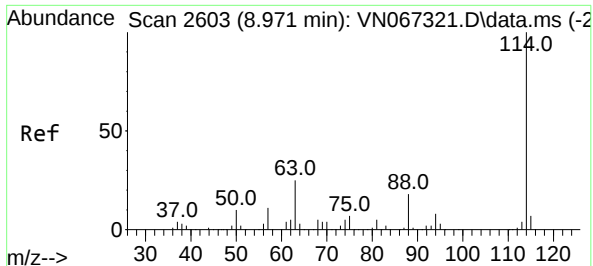
Tgt Ion: 56 Resp: 14417  
Ion Ratio Lower Upper  
56 100  
69 120.5 27.3 40.9#  
84 117.0 64.9 97.3#



#33  
1,2-Dichloroethane-d4  
Concen: 45.589 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 65 Resp: 280832  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 98.6

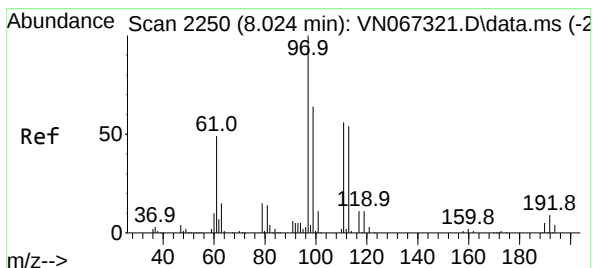
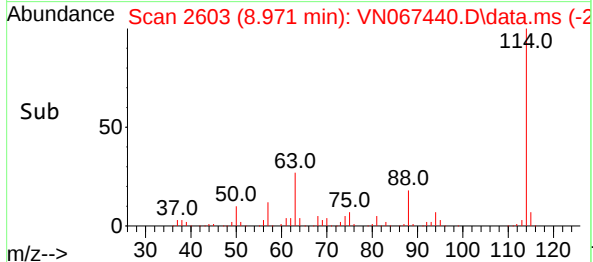
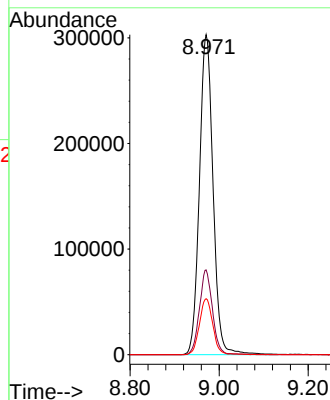
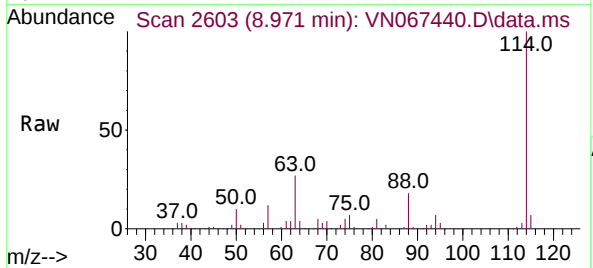




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

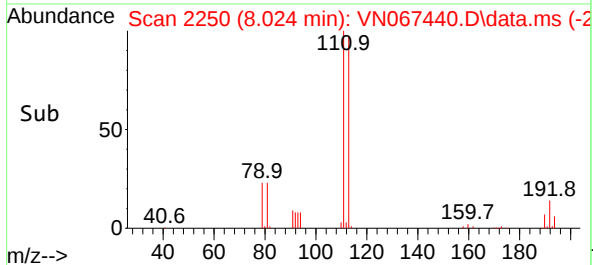
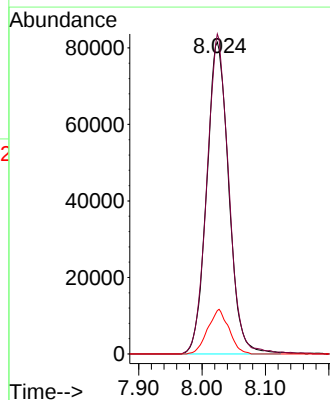
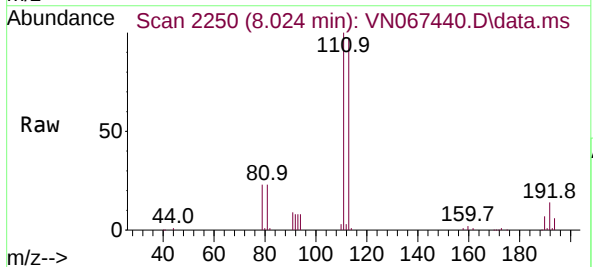
Instrument :  
MSVOA\_N  
ClientSampled :

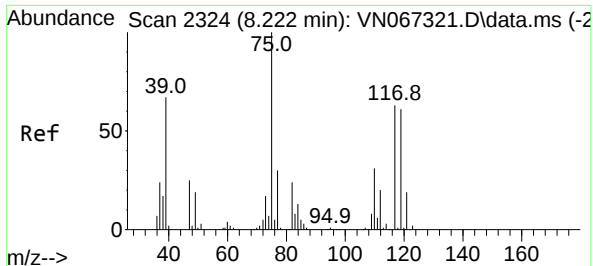
Tgt Ion:114 Resp: 645042  
Ion Ratio Lower Upper  
114 100  
63 26.5 0.0 49.0  
88 17.5 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.002 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion:113 Resp: 197352  
Ion Ratio Lower Upper  
113 100  
111 100.9 83.8 125.8  
192 13.7 13.4 20.0

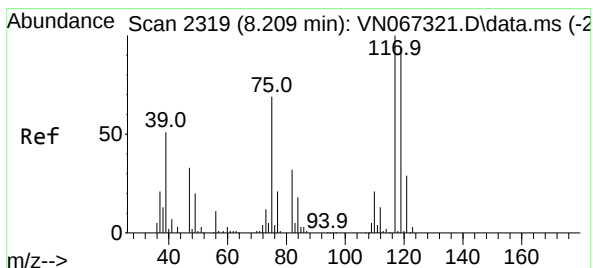
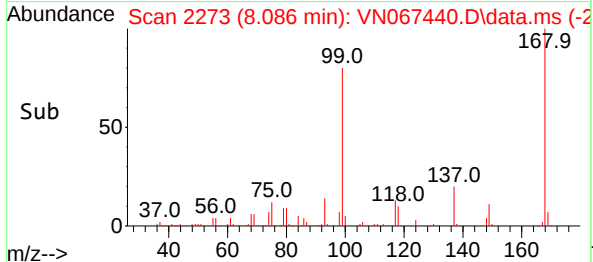
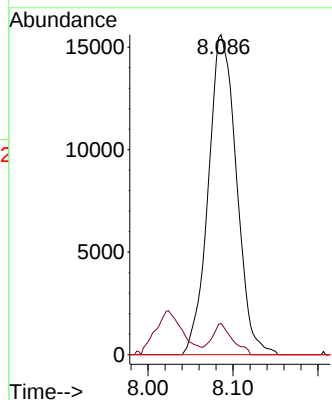
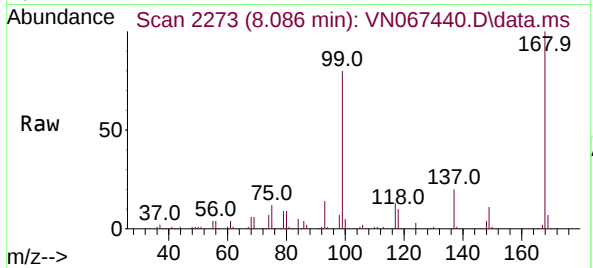




#36  
1,1-Dichloropropene  
Concen: 4.979 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.136 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

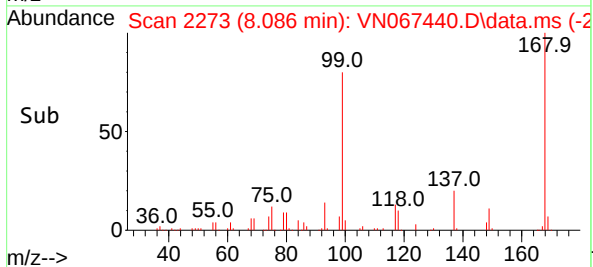
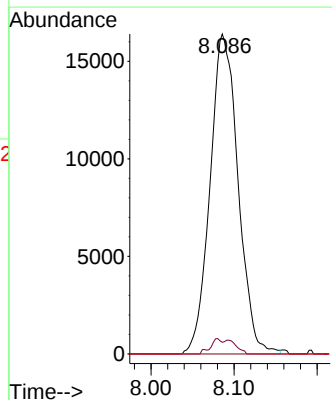
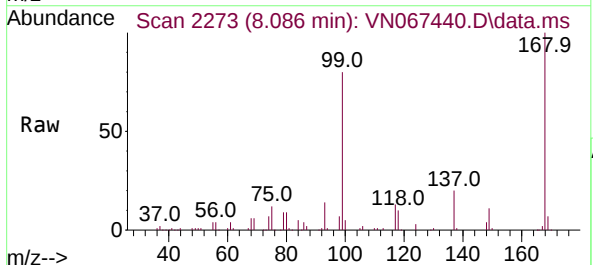
Instrument :  
MSVOA\_N  
ClientSampled :

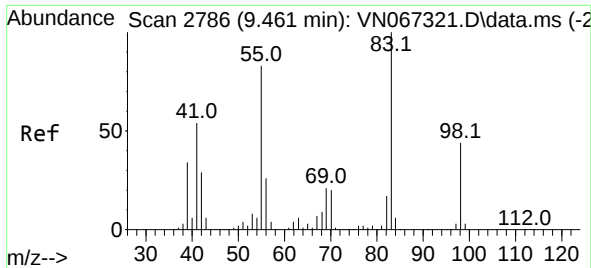
Tgt Ion: 75 Resp: 36006  
Ion Ratio Lower Upper  
75 100  
110 7.1 15.7 47.0#  
77 0.0 24.6 37.0#



#38  
Carbon Tetrachloride  
Concen: 4.946 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.123 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 117 Resp: 38445  
Ion Ratio Lower Upper  
117 100  
119 3.7 75.4 113.2#  
121 0.0 23.5 35.3#





#39

Methylcyclohexane

Concen: 0.592 ug/l

RT: 9.464 min Scan# 2787

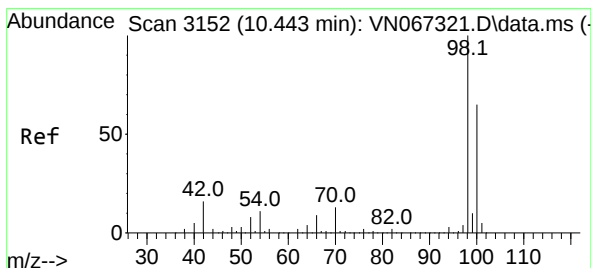
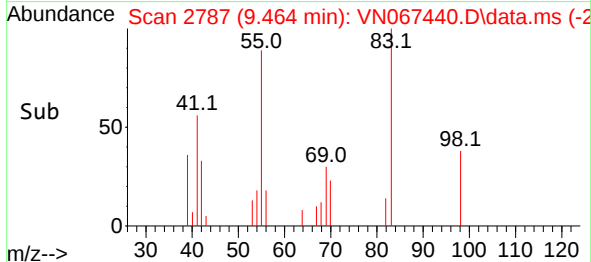
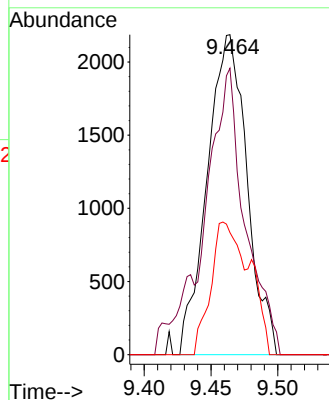
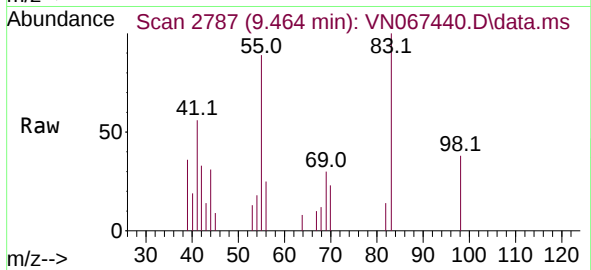
Delta R.T. 0.003 min

Lab File: VN067440.D

Acq: 22 Jun 2021 16:25

Tgt Ion: 83 Resp: 4530

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 89.5  | 66.6  | 99.8  |
| 98  | 38.1  | 35.3  | 52.9  |



#50

Toluene-d8

Concen: 50.960 ug/l

RT: 10.446 min Scan# 3153

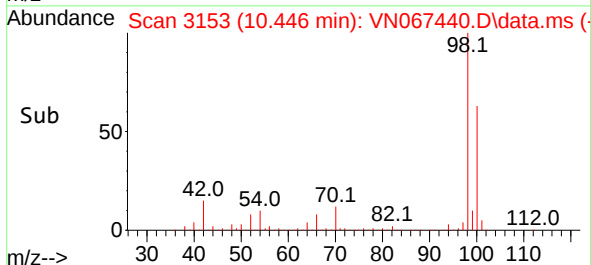
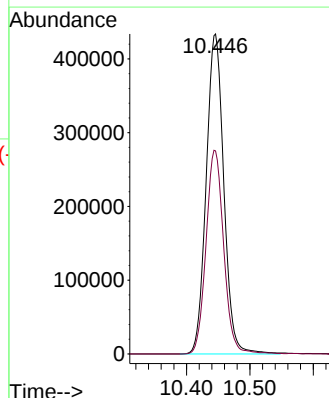
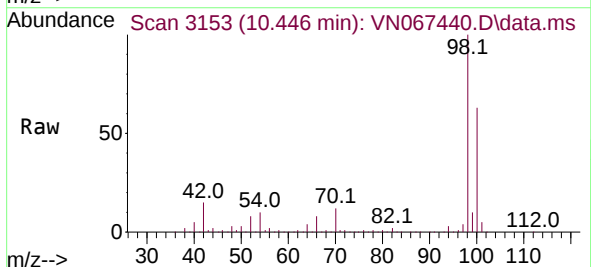
Delta R.T. 0.003 min

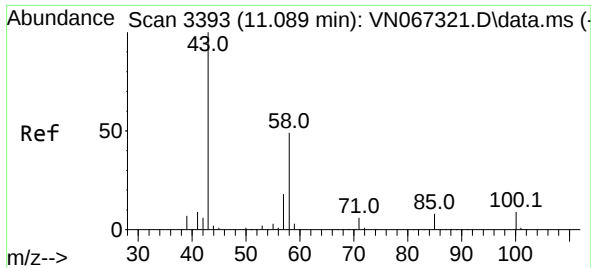
Lab File: VN067440.D

Acq: 22 Jun 2021 16:25

Tgt Ion: 98 Resp: 837930

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 63.9  | 51.7  | 77.5  |

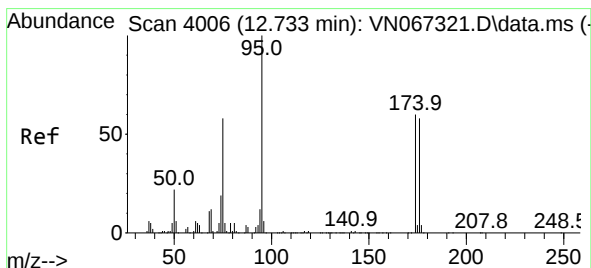
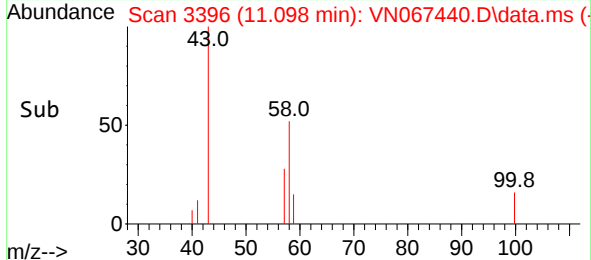
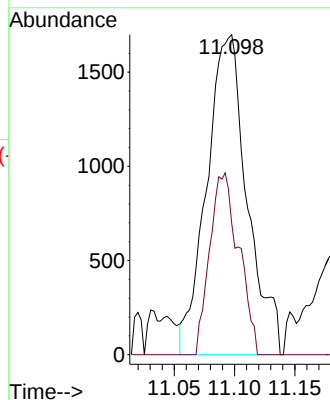
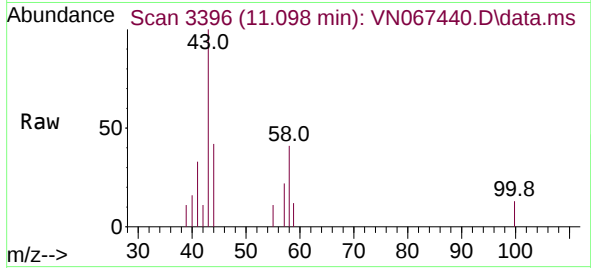




#59  
2-Hexanone  
Concen: 0.684 ug/l  
RT: 11.098 min Scan# 3396  
Delta R.T. 0.009 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

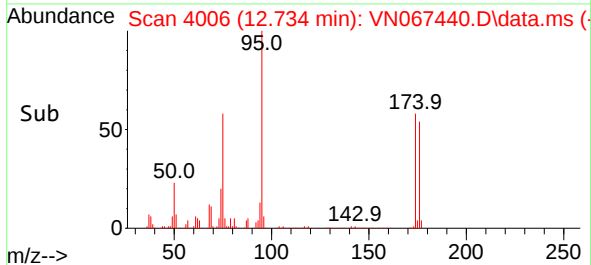
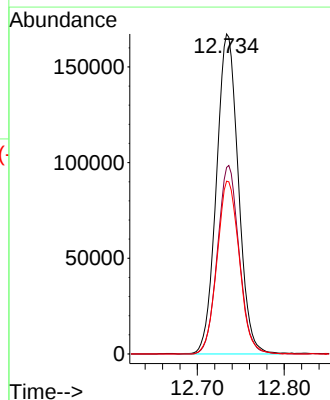
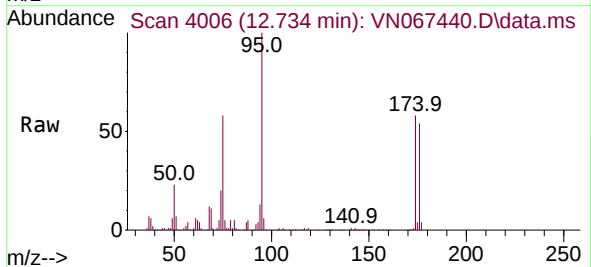
Instrument :  
MSVOA\_N  
ClientSampled :

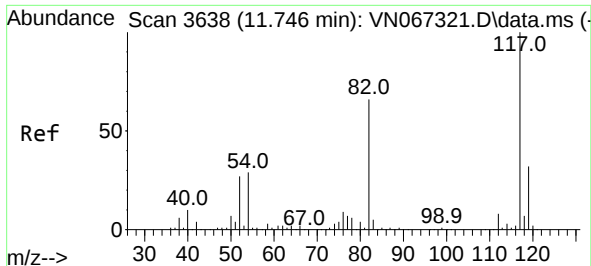
Tgt Ion: 43 Resp: 3965  
Ion Ratio Lower Upper  
43 100  
58 40.7 24.7 74.1



#62  
4-Bromofluorobenzene  
Concen: 43.215 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.001 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 95 Resp: 293250  
Ion Ratio Lower Upper  
95 100  
174 58.2 0.0 122.0  
176 55.0 0.0 117.6

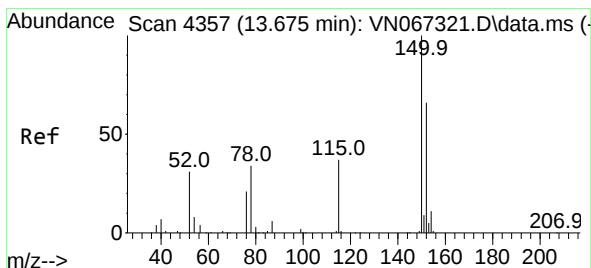
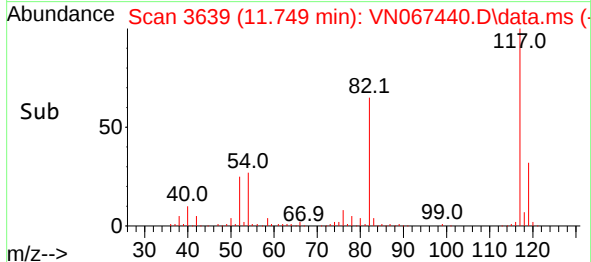
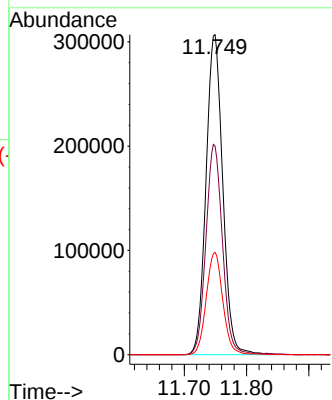
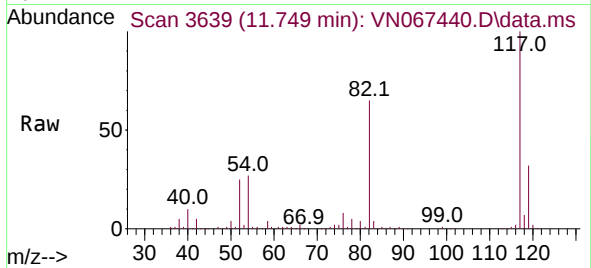




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.003 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

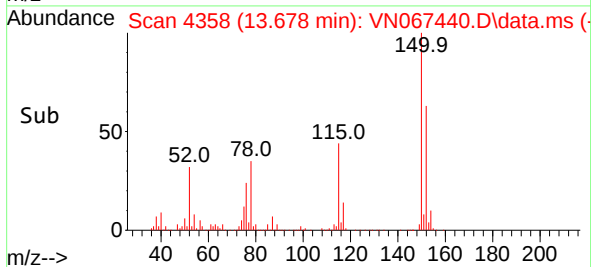
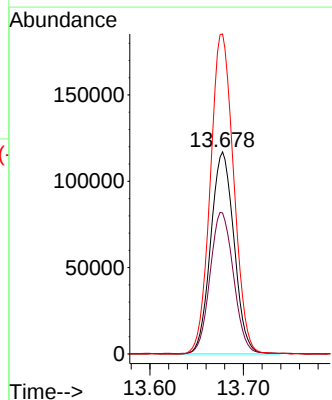
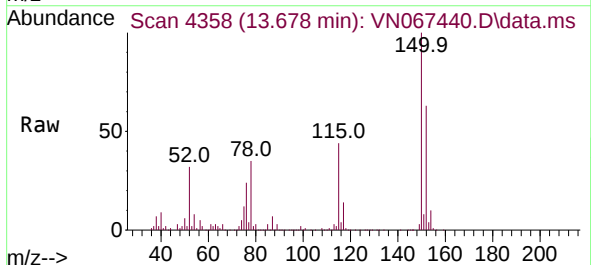
Instrument :  
MSVOA\_N  
ClientSampled :

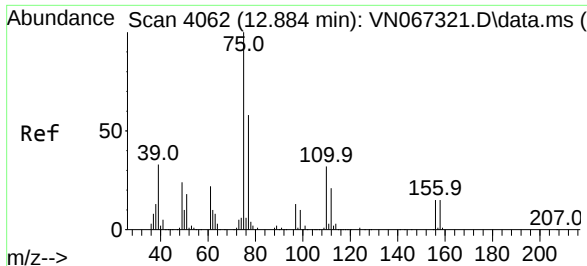
Tgt Ion:117 Resp: 571890  
Ion Ratio Lower Upper  
117 100  
82 65.1 53.1 79.7  
119 32.0 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion:152 Resp: 203335  
Ion Ratio Lower Upper  
152 100  
115 70.3 36.1 108.5  
150 158.4 0.0 351.8

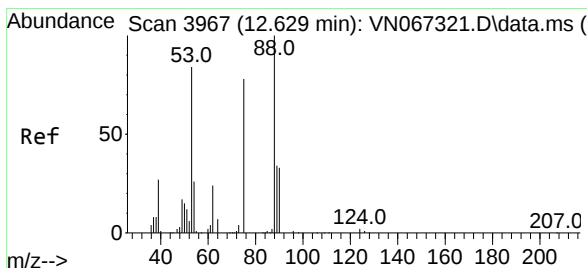
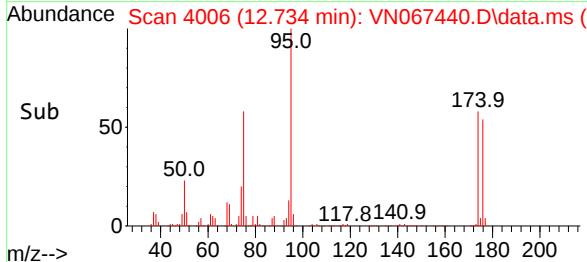
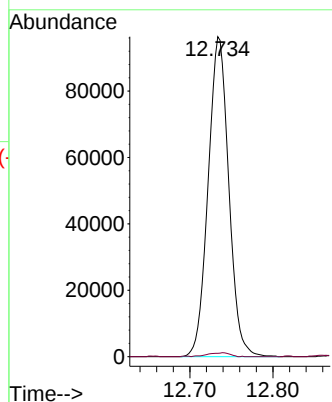
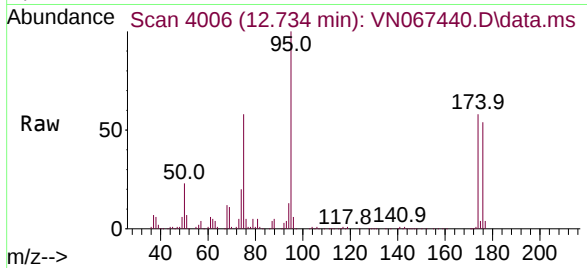




#76  
1,2,3-Trichloropropane  
Concen: 31.441 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.150 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

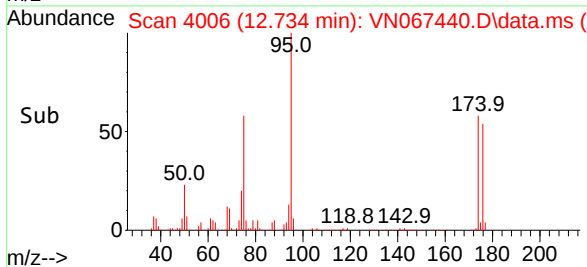
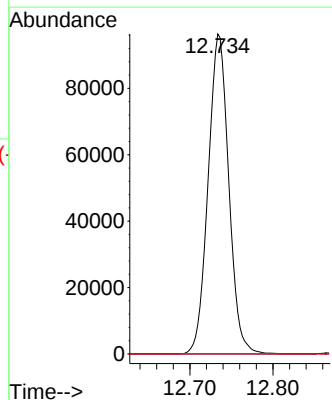
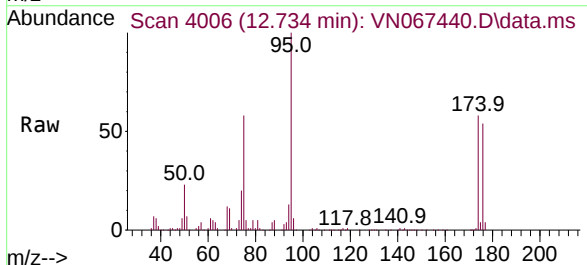
Instrument :  
MSVOA\_N  
ClientSampled :

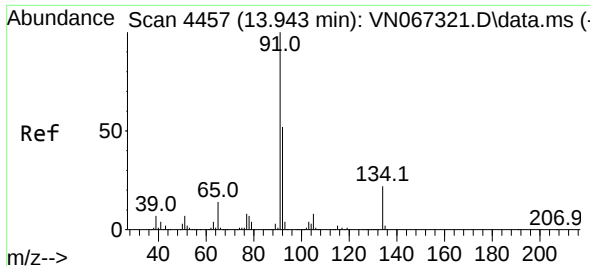
Tgt Ion: 75 Resp: 166015  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.920 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Tgt Ion: 75 Resp: 166015  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#

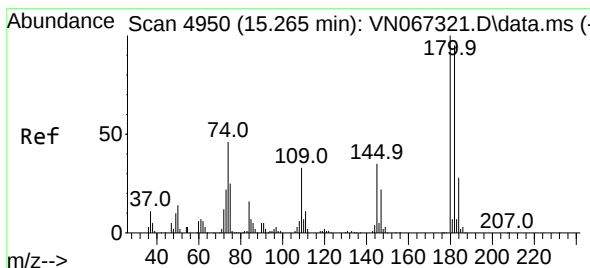
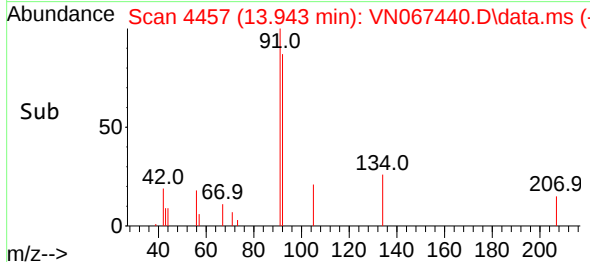
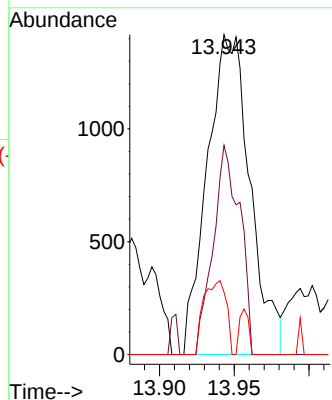
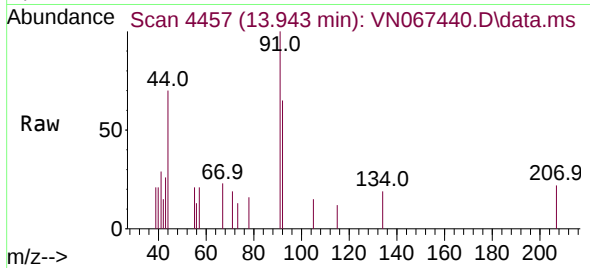




#89  
n-Butylbenzene  
Concen: 0.201 ug/l  
RT: 13.943 min Scan# 4457  
Delta R.T. 0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

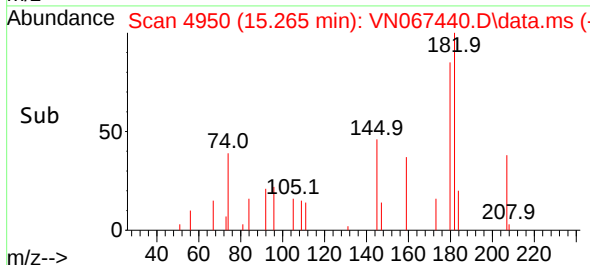
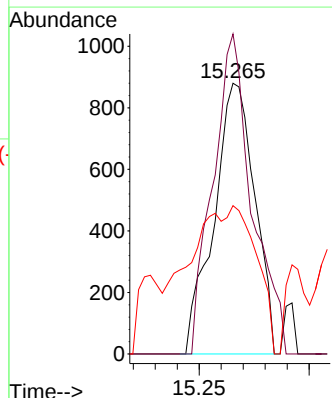
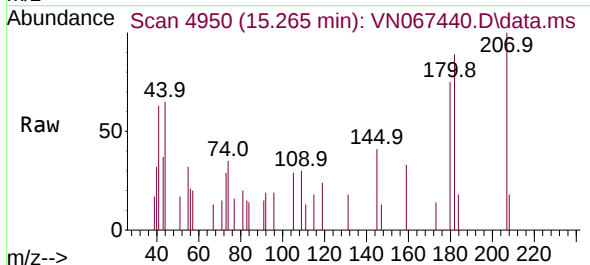
Instrument :  
MSVOA\_N  
ClientSampled :

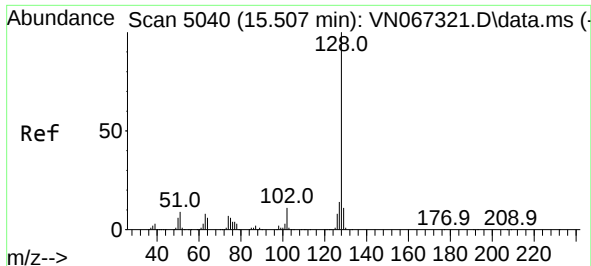
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 91 | Resp: | 2824      |
| Ion Ratio   | Lower | Upper     |
| 91          | 100   |           |
| 92          | 40.9  | 25.7 77.1 |
| 134         | 12.2  | 11.2 33.6 |



#93  
1,2,4-Trichlorobenzene  
Concen: 0.320 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

|              |       |            |
|--------------|-------|------------|
| Tgt Ion: 180 | Resp: | 1137       |
| Ion Ratio    | Lower | Upper      |
| 180          | 100   |            |
| 182          | 112.8 | 47.5 142.5 |
| 145          | 20.9  | 17.2 51.6  |

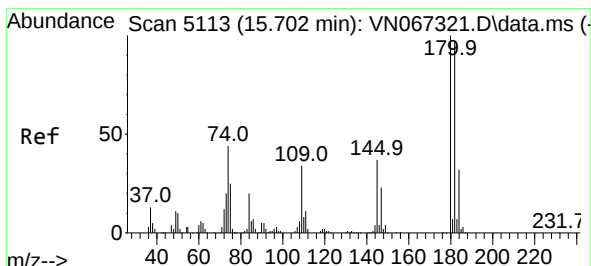
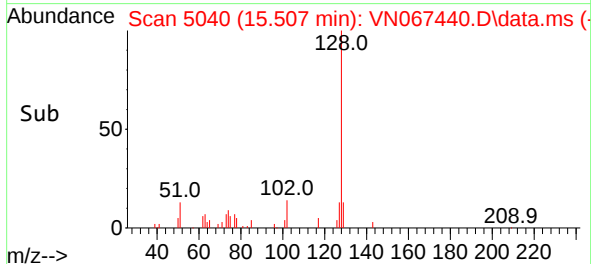
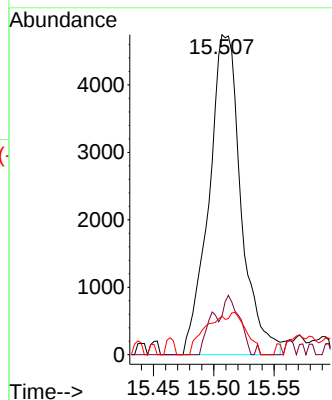
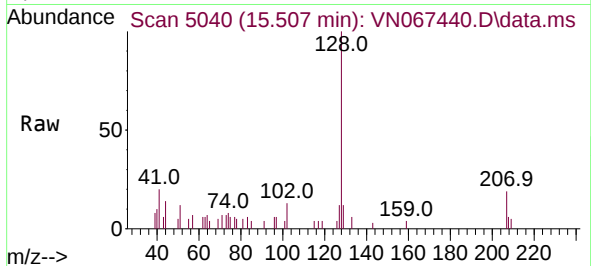




#95  
Naphthalene  
Concen: 3.283 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

Instrument :  
MSVOA\_N  
ClientSampled :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 8809  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 9.6   | 10.6  | 15.8# |
| 129       | 8.4   | 8.6   | 12.8# |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.307 ug/l  
RT: 15.708 min Scan# 5115  
Delta R.T. 0.006 min  
Lab File: VN067440.D  
Acq: 22 Jun 2021 16:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 1046  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 115.7 | 47.8  | 143.3 |
| 145       | 43.5  | 18.2  | 54.6  |

