

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101821\  
 Data File : VN069014.D  
 Acq On : 19 Oct 2021 6:40  
 Operator : JC/MD  
 Sample : M4242-13  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 19 10:01:05 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

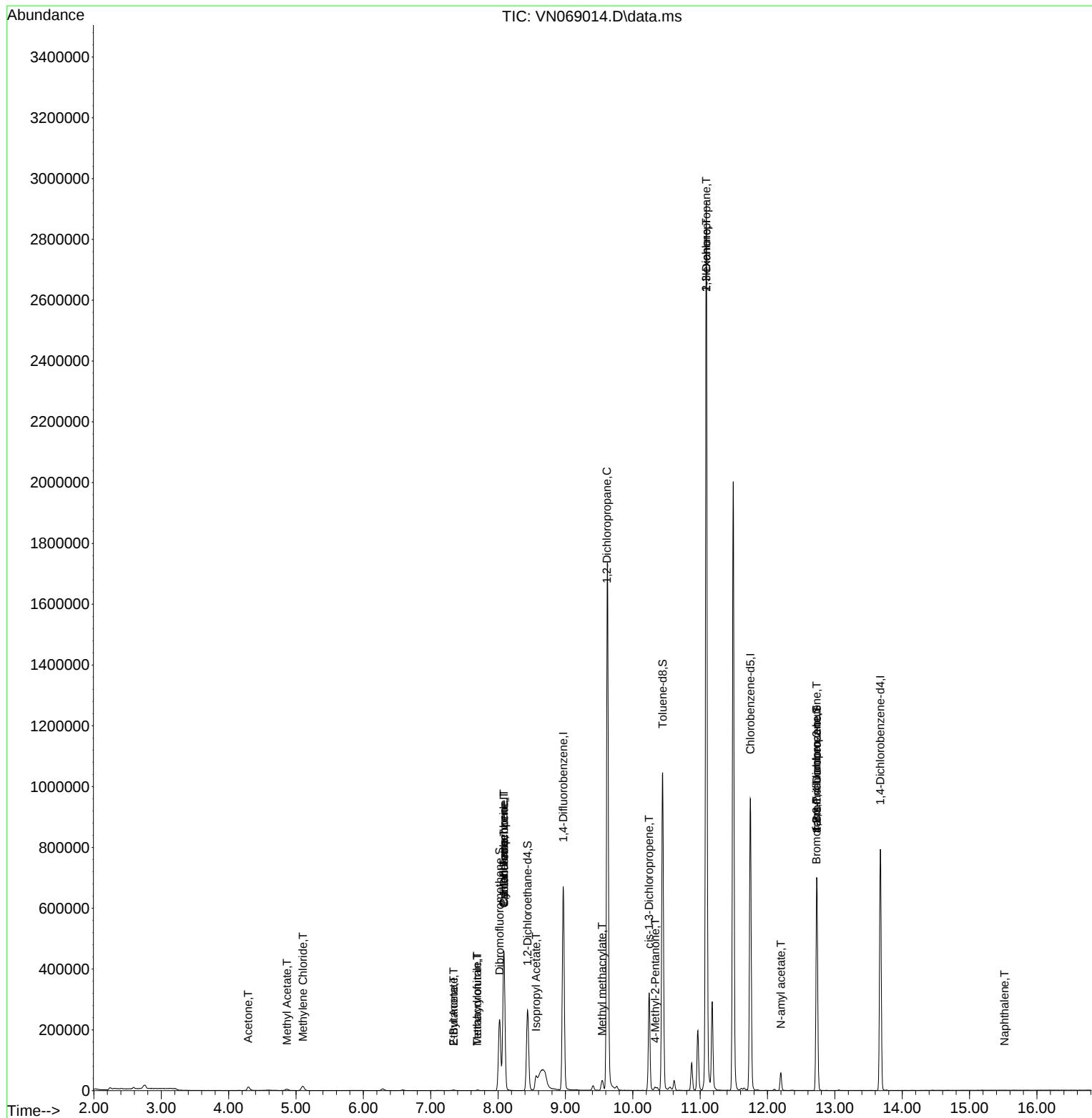
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.086  | 168   | 347102   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114   | 597138   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747 | 117   | 566809   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675 | 152   | 212810   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65    | 223720   | 48.885   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 97.780%  |
| 35) Dibromofluoromethane      | 8.021  | 113   | 175937   | 50.641   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 101.280% |
| 50) Toluene-d8                | 10.443 | 98    | 749989   | 53.953   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 107.900% |
| 62) 4-Bromofluorobenzene      | 12.731 | 95    | 257290   | 49.058   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 98.120%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 16) Acetone                   | 4.291  | 43    | 22300    | 13.057   | ug/l   | 99       |
| 18) Methyl Acetate            | 4.867  | 43    | 9790     | 1.511    | ug/l # | 76       |
| 20) Methylene Chloride        | 5.103  | 84    | 12200    | 3.104    | ug/l   | 90       |
| 25) 2-Butanone                | 7.340  | 43    | 4061     | 1.572    | ug/l   | 99       |
| 29) Tetrahydrofuran           | 7.689  | 42    | 920      | 0.549    | ug/l # | 80       |
| 31) Cyclohexane               | 8.086  | 56    | 7701     | 1.082    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 28544    | 5.596    | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.340  | 43    | 4061     | 0.771    | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 8.088  | 117   | 36530    | 6.521    | ug/l # | 15       |
| 41) Methacrylonitrile         | 7.691  | 41    | 562      | 0.212    | ug/l # | 36       |
| 43) Isopropyl Acetate         | 8.563  | 43    | 58699    | 6.315    | ug/l # | 79       |
| 45) 1,2-Dichloropropane       | 9.617  | 63    | 2135     | 0.530    | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.545  | 41    | 8966     | 2.053    | ug/l # | 13       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43    | 8332     | 1.546    | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene   | 10.242 | 75    | 60442    | 8.996    | ug/l # | 59       |
| 57) 1,3-Dichloropropane       | 11.089 | 76    | 31626    | 4.868    | ug/l # | 42       |
| 59) 2-Hexanone                | 11.089 | 43    | 451709   | 116.876  | ug/l # | 50       |
| 71) Bromoform                 | 12.726 | 173   | 722      | 0.215    | ug/l # | 29       |
| 74) N-amyl acetate            | 12.197 | 43    | 18085    | 2.695    | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 12.731 | 75    | 134541   | 29.713   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731 | 75    | 134541   | 71.087   | ug/l # | 12       |
| 95) Naphthalene               | 15.520 | 128   | 208      | 3.831    | ug/l # | 69       |

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

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Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

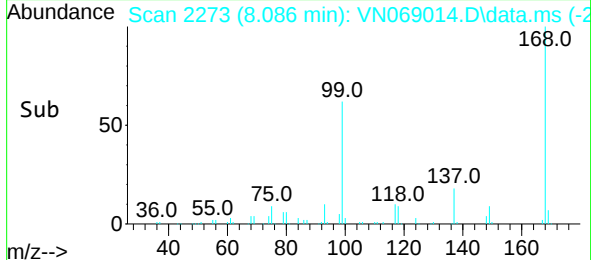
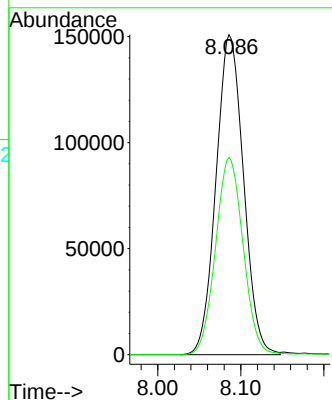
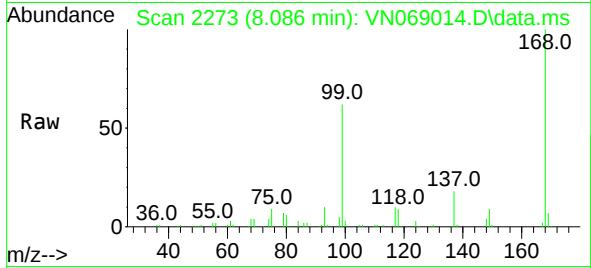




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.000 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

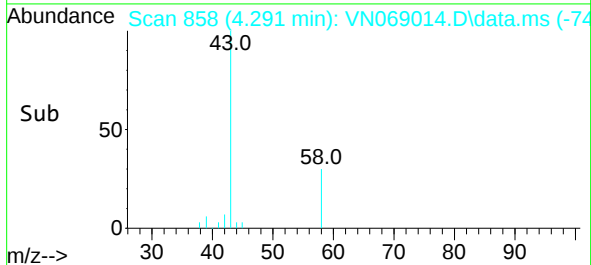
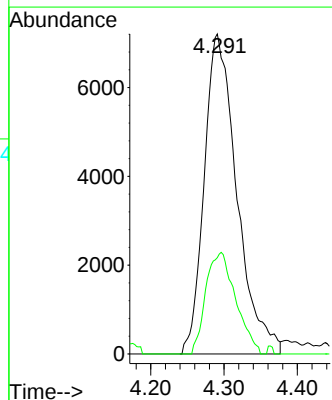
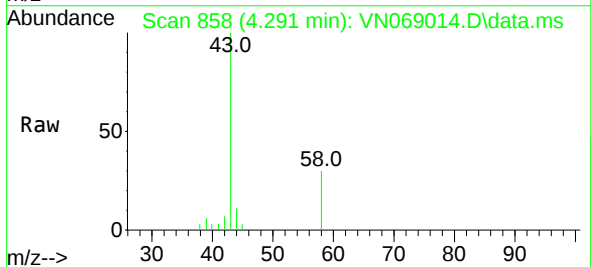
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:168 Resp: 347102  
Ion Ratio Lower Upper  
168 100  
99 61.7 48.9 73.3



#16  
Acetone  
Concen: 13.057 ug/l  
RT: 4.291 min Scan# 858  
Delta R.T. 0.005 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 43 Resp: 22300  
Ion Ratio Lower Upper  
43 100  
58 30.1 24.5 36.7

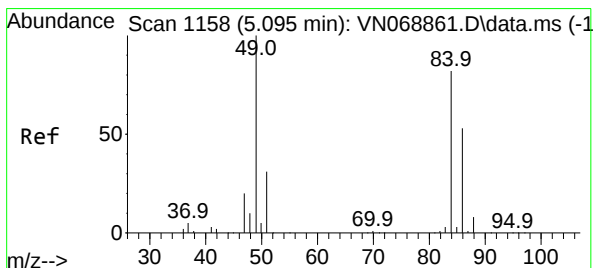
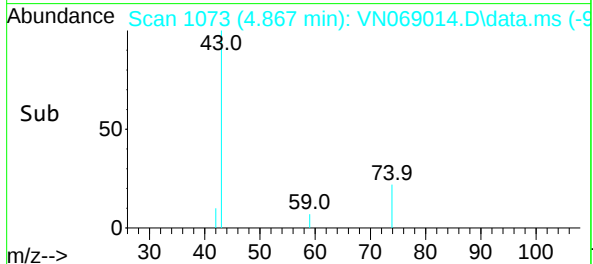
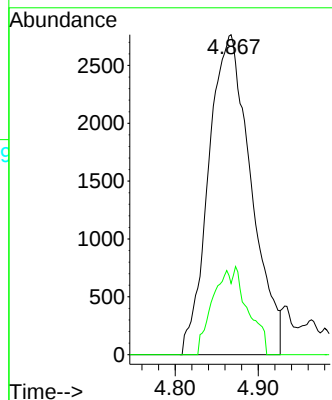
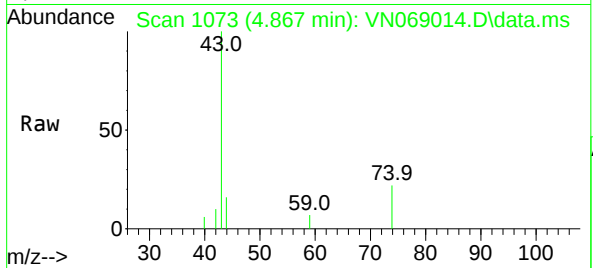




#18  
Methyl Acetate  
Concen: 1.511 ug/l  
RT: 4.867 min Scan# 1073  
Delta R.T. 0.013 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

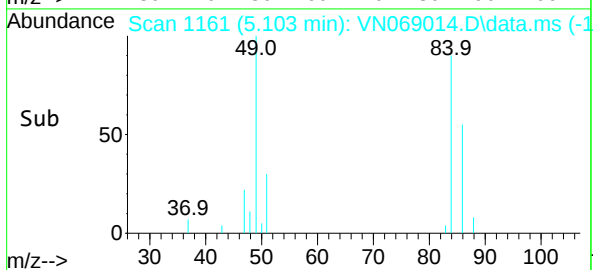
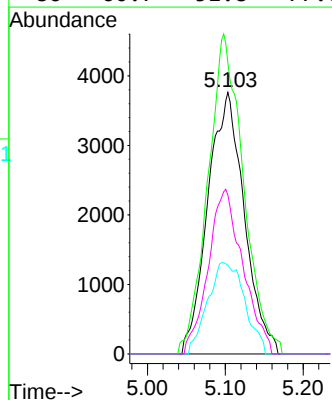
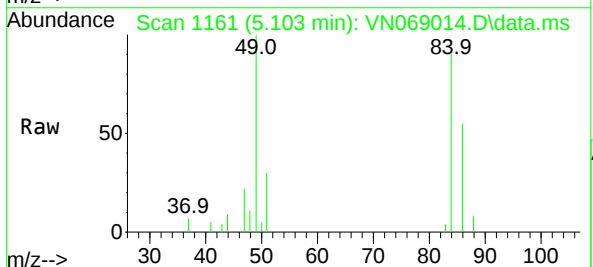
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 43 Resp: 9790  
Ion Ratio Lower Upper  
43 100  
74 12.0 18.9 28.3#



#20  
Methylene Chloride  
Concen: 3.104 ug/l  
RT: 5.103 min Scan# 1161  
Delta R.T. 0.008 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 84 Resp: 12200  
Ion Ratio Lower Upper  
84 100  
49 107.1 97.6 146.4  
51 33.9 30.3 45.5  
86 60.7 51.8 77.6

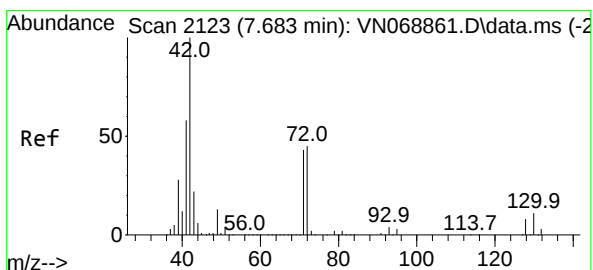
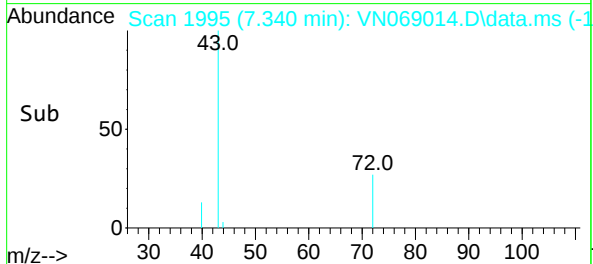
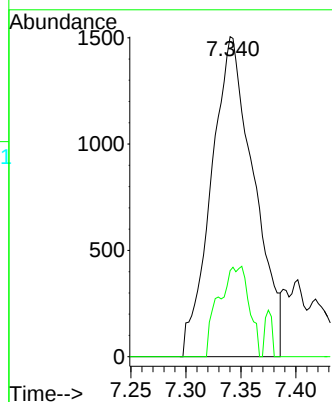
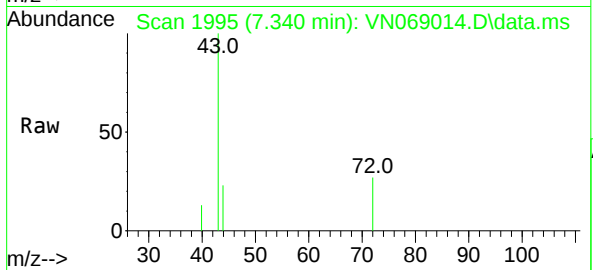




#25  
2-Butanone  
Concen: 1.572 ug/l  
RT: 7.340 min Scan# 1995  
Delta R.T. 0.008 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

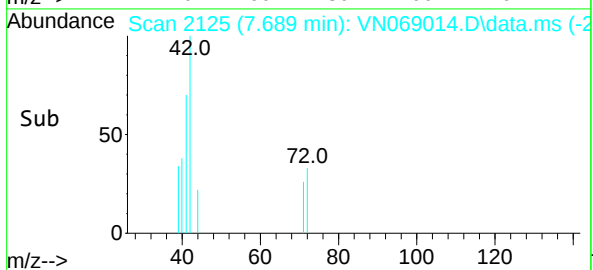
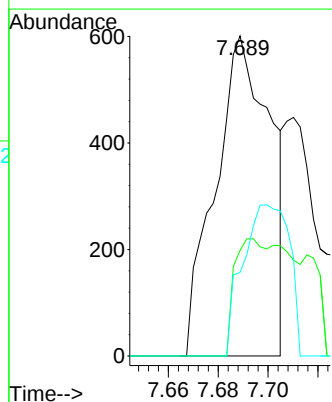
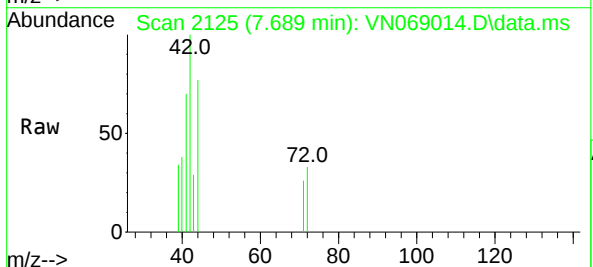
Instrument :  
MSVOA\_N  
ClientSampleId :

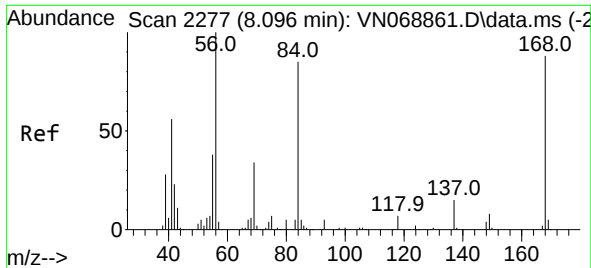
Tgt Ion: 43 Resp: 4061  
Ion Ratio Lower Upper  
43 100  
72 26.9 21.2 31.8



#29  
Tetrahydrofuran  
Concen: 0.549 ug/l  
RT: 7.689 min Scan# 2125  
Delta R.T. 0.005 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 42 Resp: 920  
Ion Ratio Lower Upper  
42 100  
72 21.2 35.4 53.2#  
71 40.0 33.8 50.6

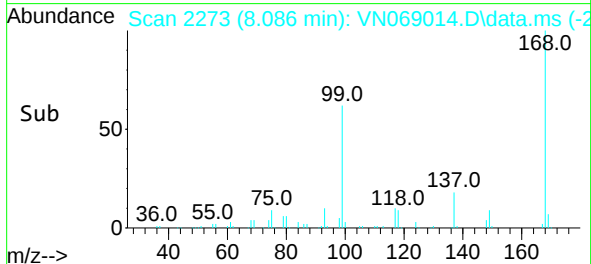
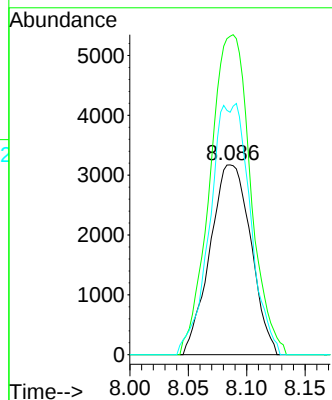
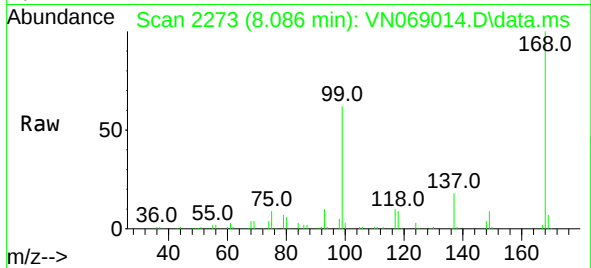




#31  
Cyclohexane  
Concen: 1.082 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.010 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

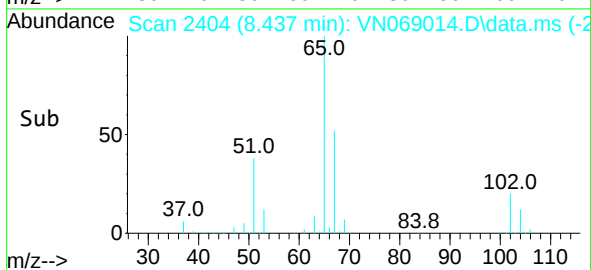
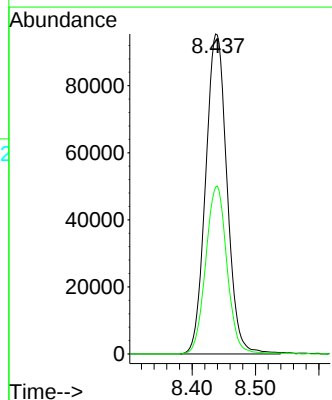
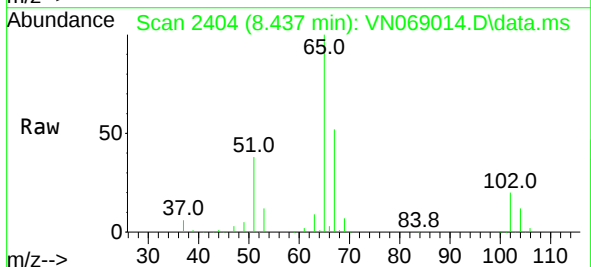
Instrument :  
MSVOA\_N  
ClientSampleId :

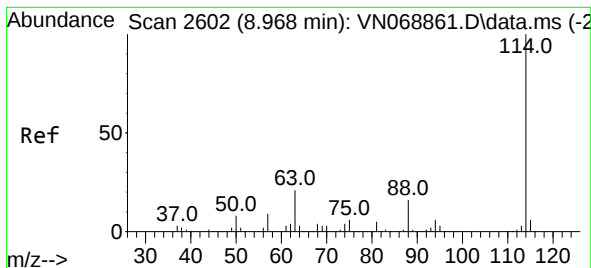
Tgt Ion: 56 Resp: 7701  
Ion Ratio Lower Upper  
56 100  
69 167.8 26.9 40.3#  
84 127.7 67.6 101.4#



#33  
1,2-Dichloroethane-d4  
Concen: 48.885 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. -0.003 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 65 Resp: 223720  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 103.8

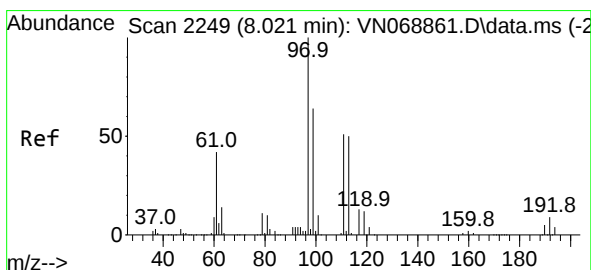
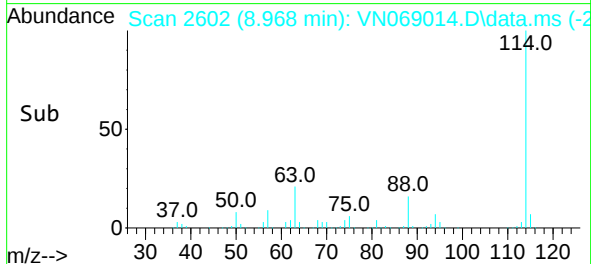
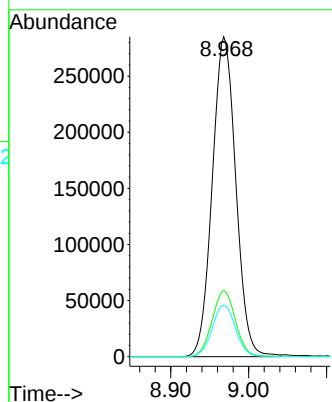
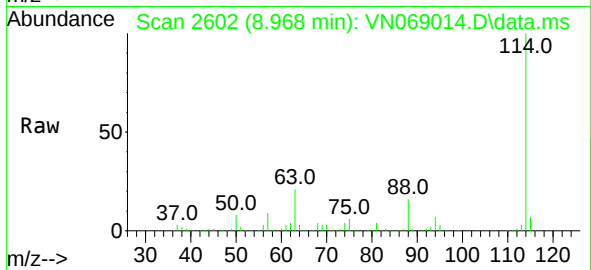




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. 0.000 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

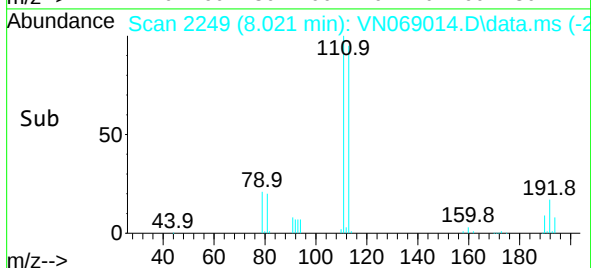
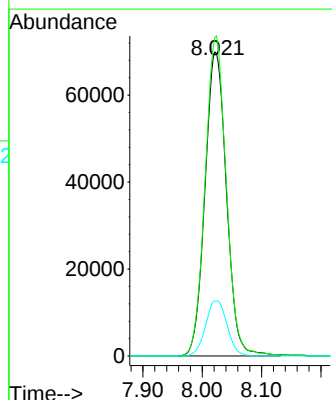
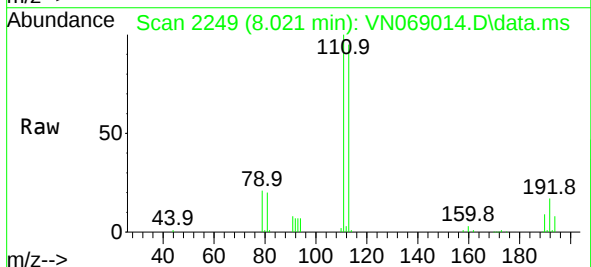
Instrument :  
MSVOA\_N  
ClientSampled :

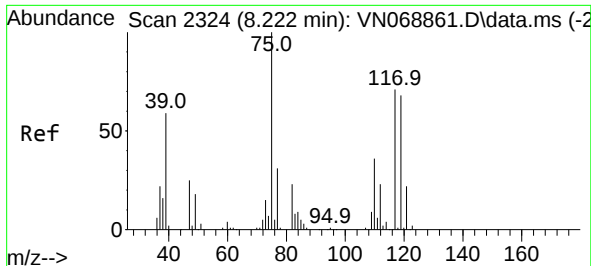
Tgt Ion:114 Resp: 597138  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 42.6  
88 16.1 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 50.641 ug/l  
RT: 8.021 min Scan# 2249  
Delta R.T. 0.000 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

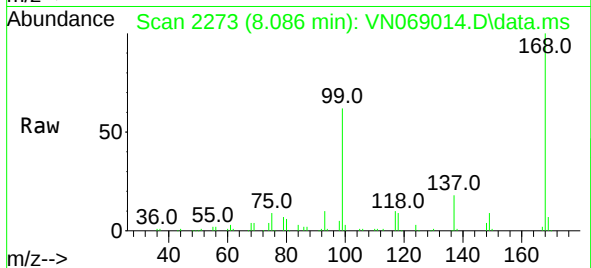
Tgt Ion:113 Resp: 175937  
Ion Ratio Lower Upper  
113 100  
111 103.8 83.2 124.8  
192 18.2 15.0 22.4



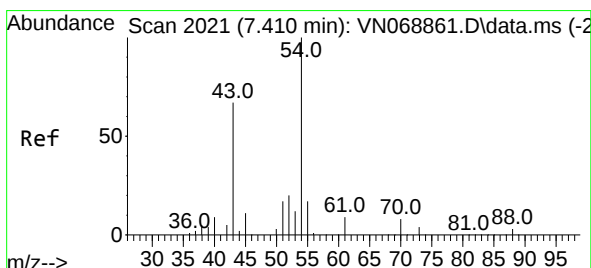
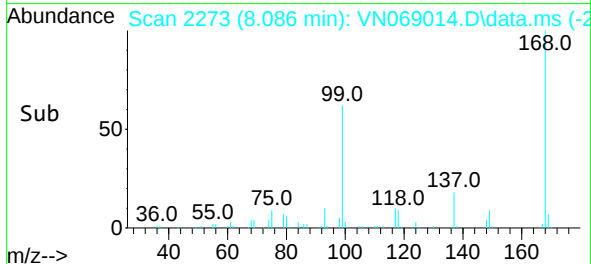
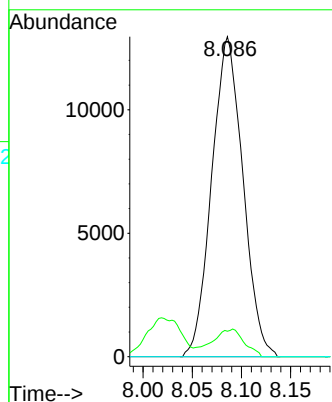


#36  
1,1-Dichloropropene  
Concen: 5.596 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Instrument :  
MSVOA\_N  
ClientSampled :

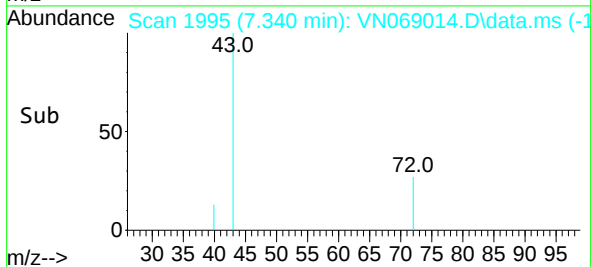
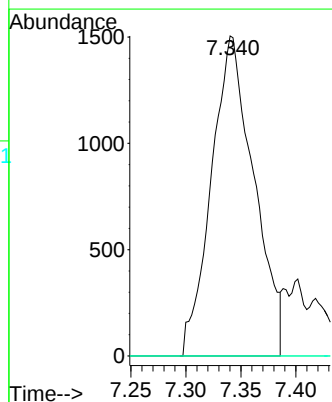
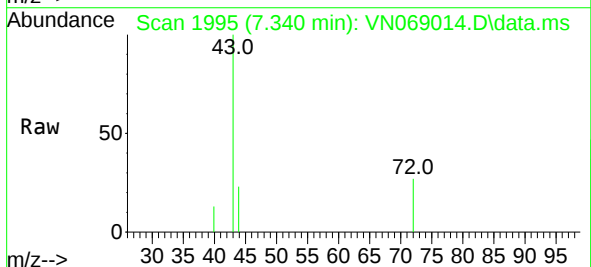


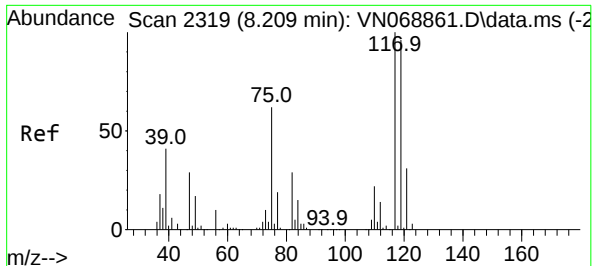
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Ion Ratio Lower Upper  
75 100  
110 8.4 17.9 53.8#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 0.771 ug/l  
RT: 7.340 min Scan# 1995  
Delta R.T. -0.070 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

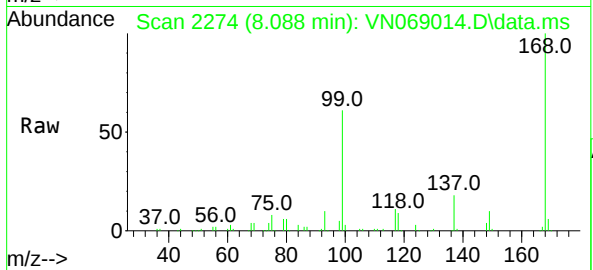
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Ion Ratio Lower Upper  
43 100  
61 0.0 11.2 16.8#  
70 0.0 8.4 12.6#



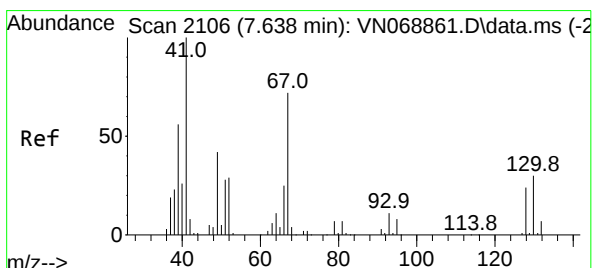
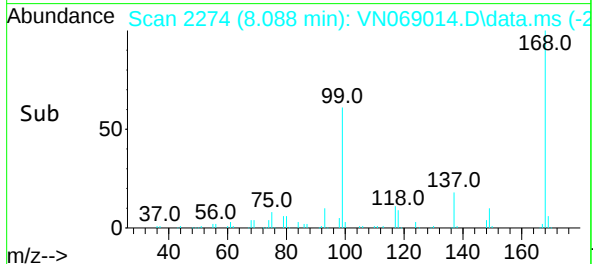
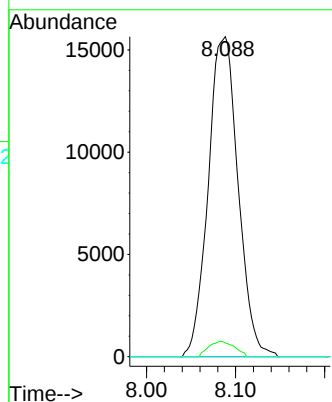


#38  
Carbon Tetrachloride  
Concen: 6.521 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.121 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Instrument :  
MSVOA\_N  
ClientSampleId :

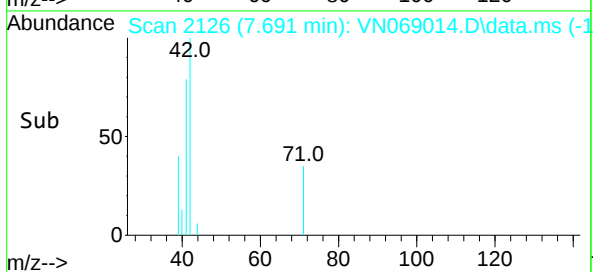
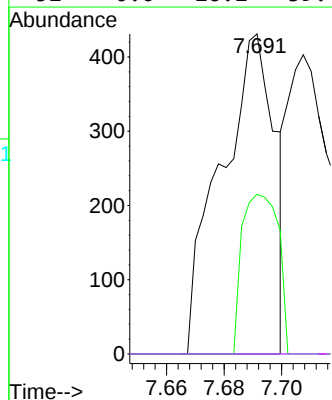
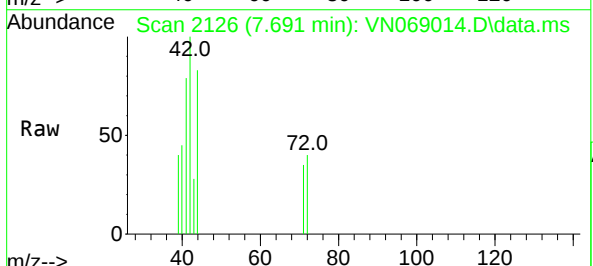


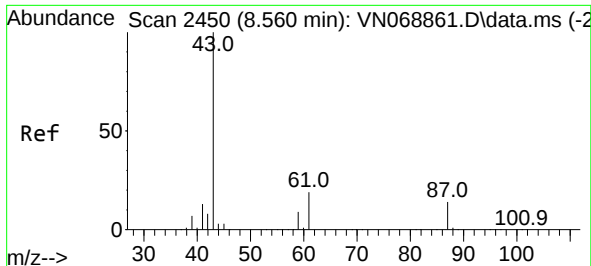
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Ion Ratio Lower Upper  
117 100  
119 4.3 76.9 115.3#  
121 0.0 24.6 37.0#



#41  
Methacrylonitrile  
Concen: 0.212 ug/l  
RT: 7.691 min Scan# 2126  
Delta R.T. 0.054 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 41 Resp: 562  
Ion Ratio Lower Upper  
41 100  
39 33.5 44.9 67.3#  
67 0.0 62.6 93.8#  
52 0.0 26.2 39.4#

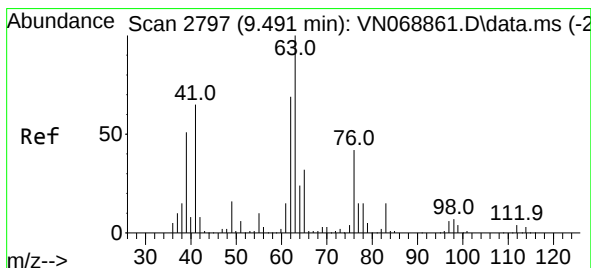
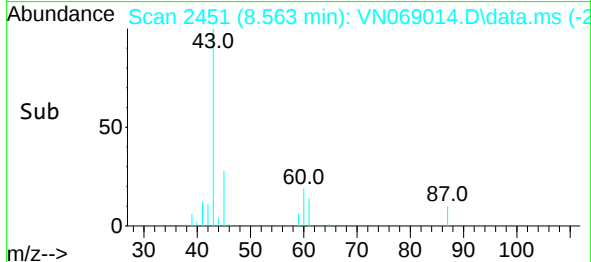
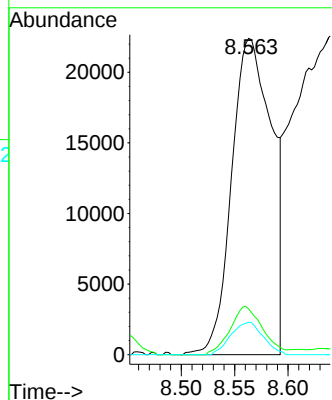
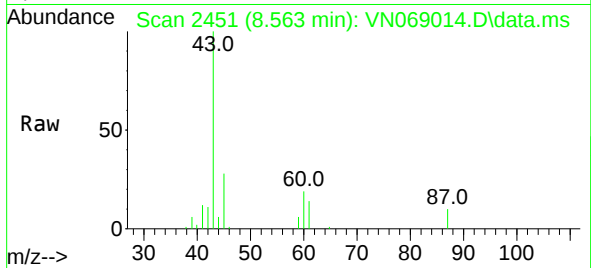




#43  
Isopropyl Acetate  
Concen: 6.315 ug/l  
RT: 8.563 min Scan# 2451  
Delta R.T. 0.003 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

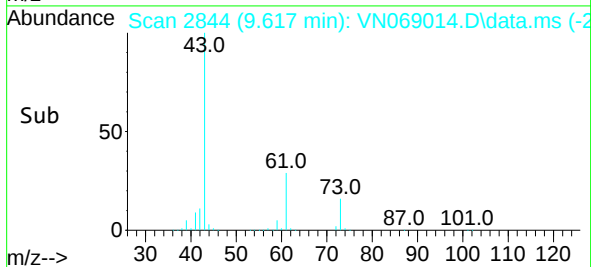
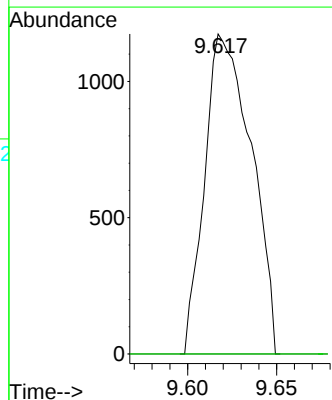
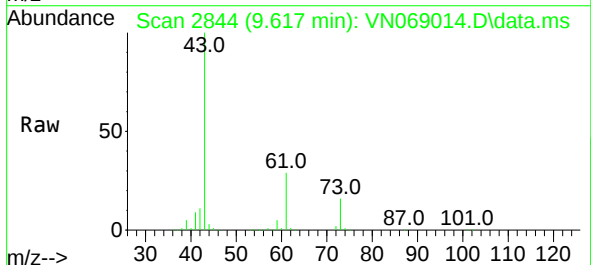
Instrument :  
MSVOA\_N  
ClientSampled :

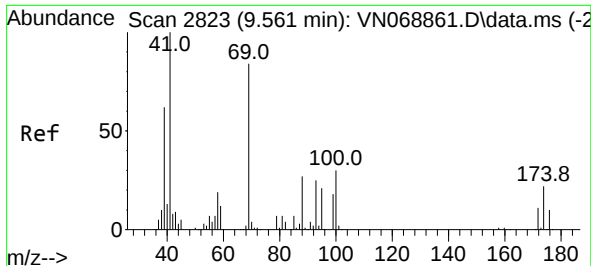
Tgt Ion: 43 Resp: 58699  
Ion Ratio Lower Upper  
43 100  
61 12.4 20.4 30.6#  
87 8.2 10.7 16.1#



#45  
1,2-Dichloropropane  
Concen: 0.530 ug/l  
RT: 9.617 min Scan# 2844  
Delta R.T. 0.126 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 63 Resp: 2135  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.6 38.4#

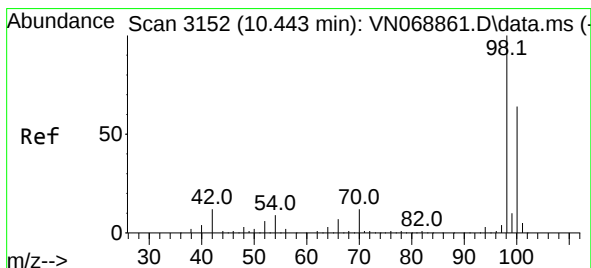
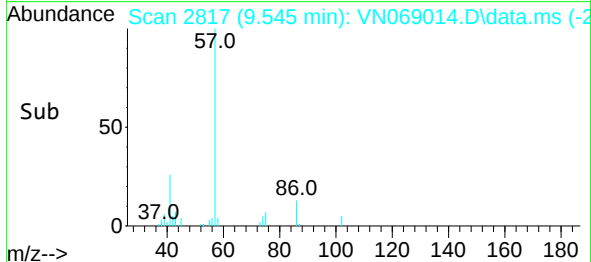
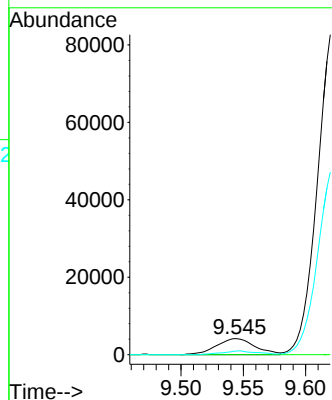
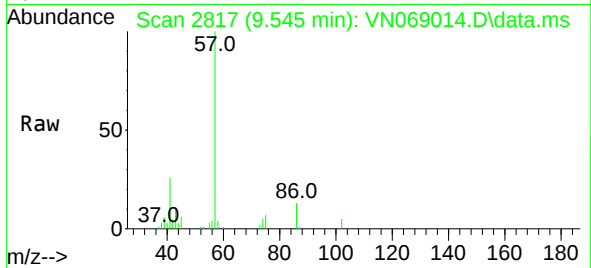




#48  
Methyl methacrylate  
Concen: 2.053 ug/l  
RT: 9.545 min Scan# 2817  
Delta R.T. -0.016 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

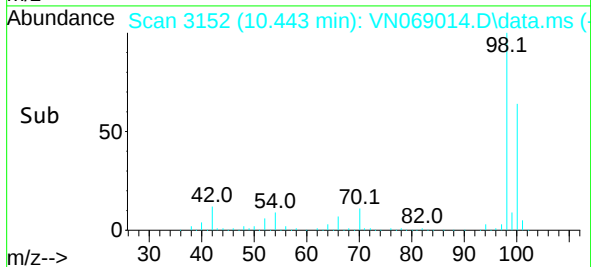
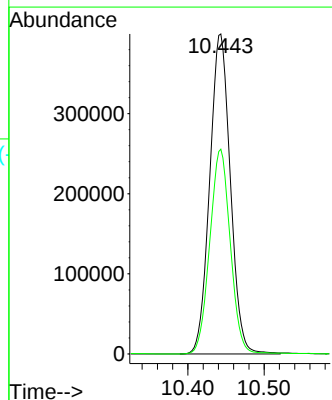
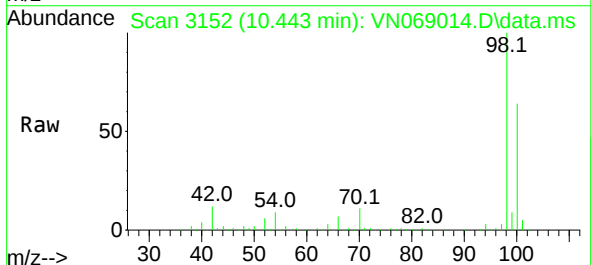
Instrument :  
MSVOA\_N  
ClientSampled :

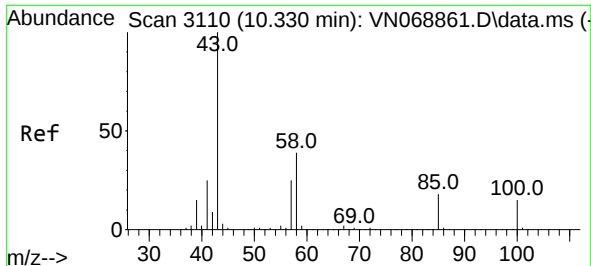
Tgt Ion: 41 Resp: 8966  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.4 99.6#  
39 0.0 50.2 75.2#



#50  
Toluene-d8  
Concen: 53.953 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 98 Resp: 749989  
Ion Ratio Lower Upper  
98 100  
100 63.4 51.5 77.3

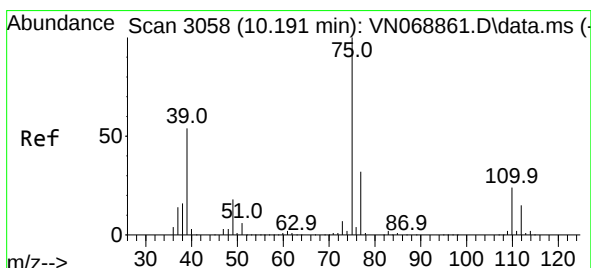
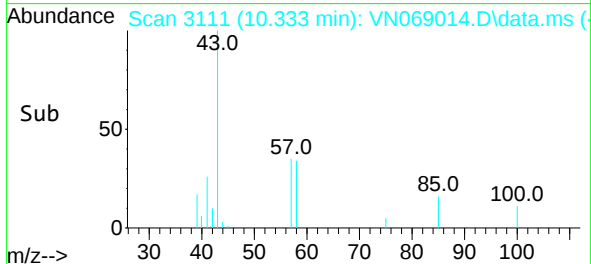
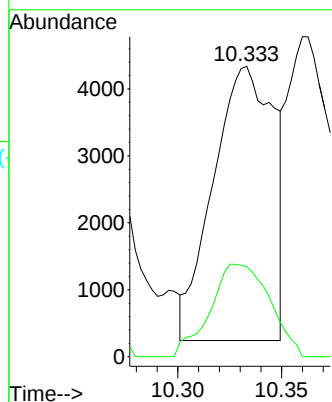
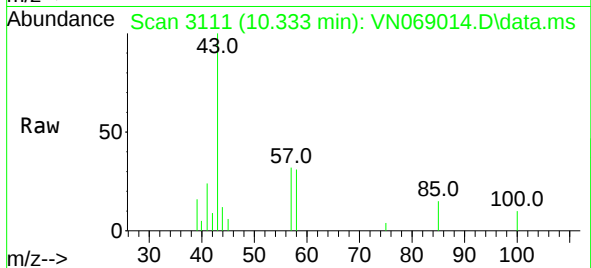




#51  
4-Methyl-2-Pentanone  
Concen: 1.546 ug/l  
RT: 10.333 min Scan# 3111  
Delta R.T. 0.003 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

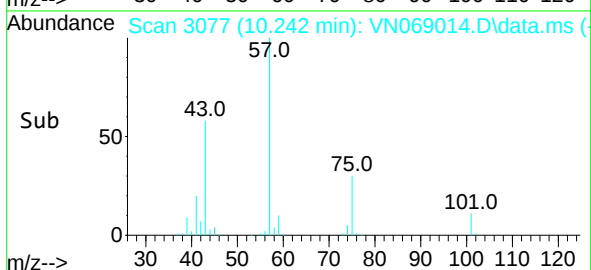
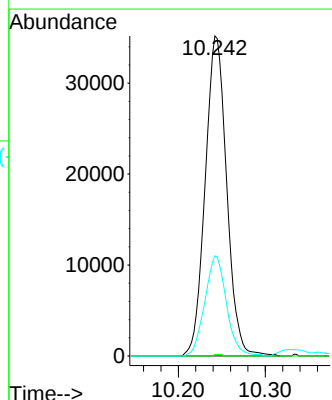
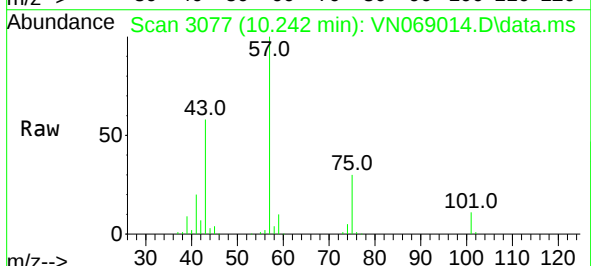
Instrument :  
MSVOA\_N  
ClientSampled :

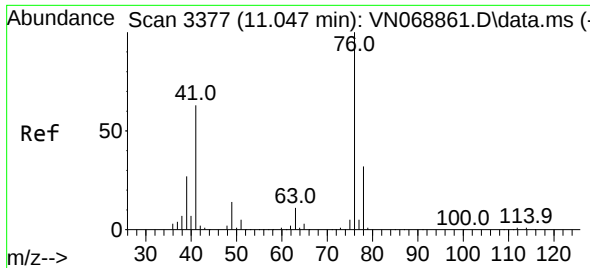
Tgt Ion: 43 Resp: 8332  
Ion Ratio Lower Upper  
43 100  
58 33.1 31.0 46.4



#54  
cis-1,3-Dichloropropene  
Concen: 8.996 ug/l  
RT: 10.242 min Scan# 3077  
Delta R.T. 0.051 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 75 Resp: 60442  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.6 38.4#  
39 31.3 42.9 64.3#

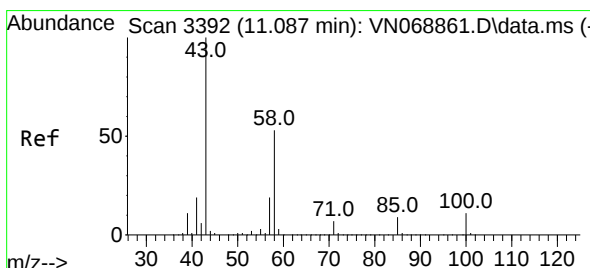
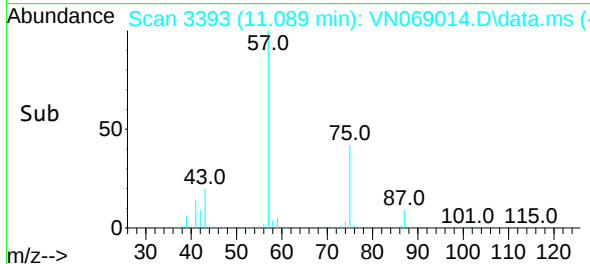
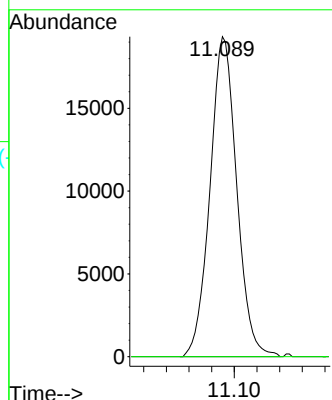
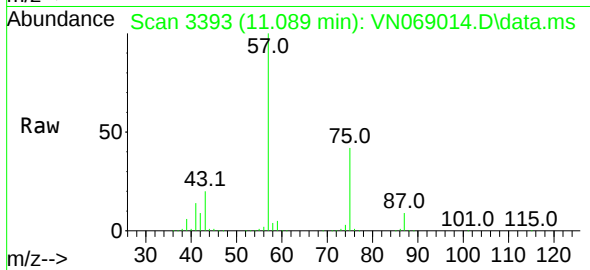




#57  
1,3-Dichloropropane  
Concen: 4.868 ug/l  
RT: 11.089 min Scan# 3393  
Delta R.T. 0.043 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

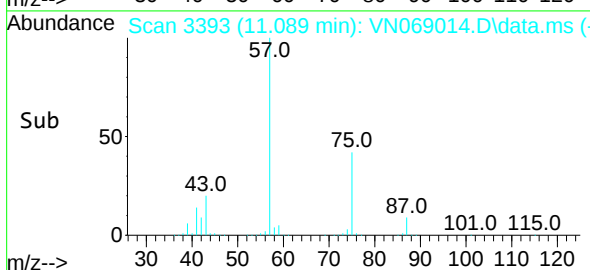
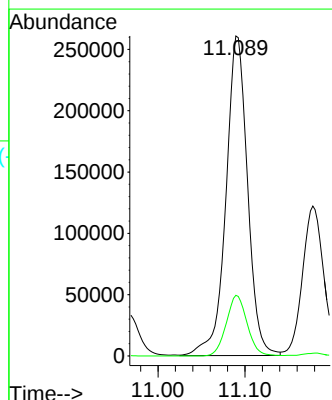
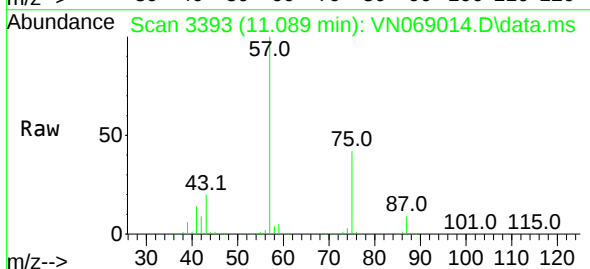
Instrument :  
MSVOA\_N  
ClientSampled :

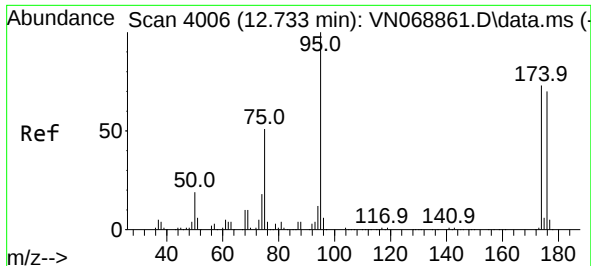
Tgt Ion: 76 Resp: 31626  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.8#



#59  
2-Hexanone  
Concen: 116.876 ug/l  
RT: 11.089 min Scan# 3393  
Delta R.T. 0.003 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 43 Resp: 451709  
Ion Ratio Lower Upper  
43 100  
58 18.3 26.9 80.7#

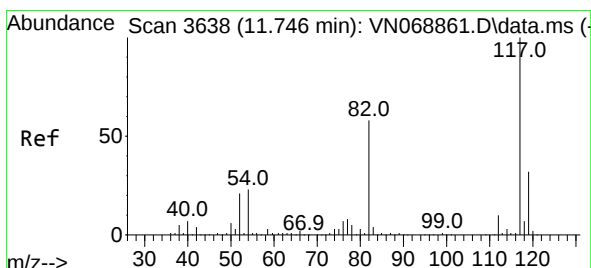
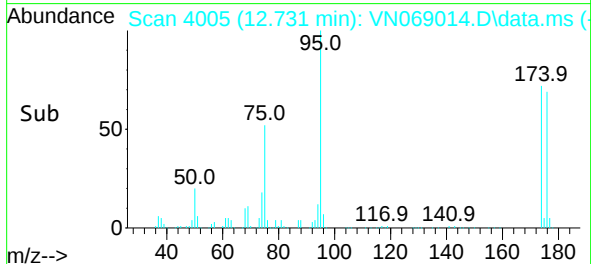
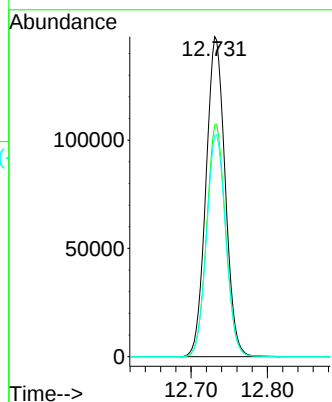
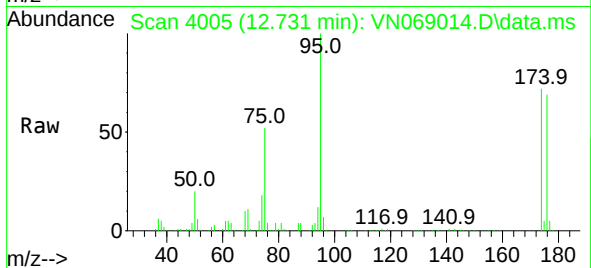




#62  
4-Bromofluorobenzene  
Concen: 49.058 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.003 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

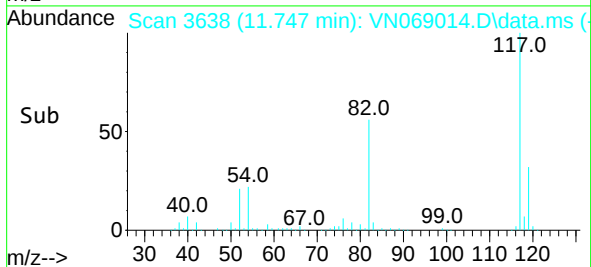
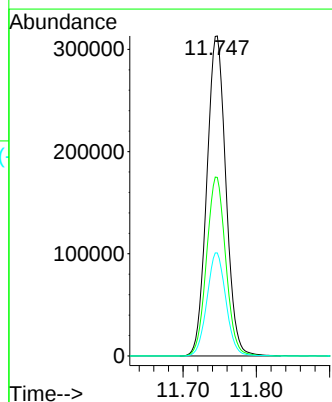
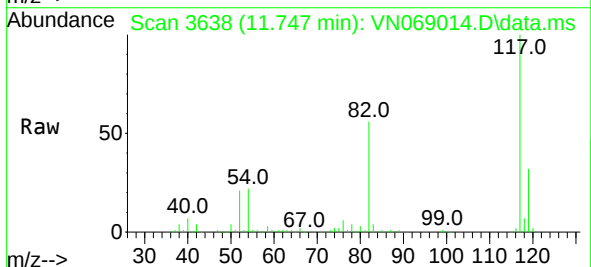
Instrument :  
MSVOA\_N  
ClientSampleId :

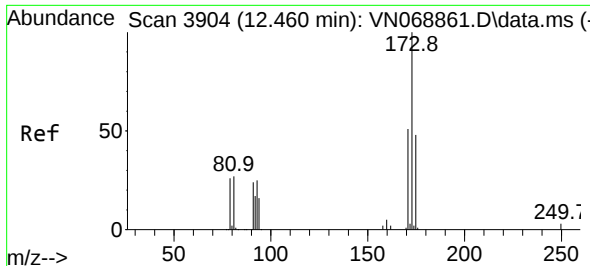
Tgt Ion: 95 Resp: 257290  
Ion Ratio Lower Upper  
95 100  
174 72.2 0.0 144.8  
176 69.6 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion: 117 Resp: 566809  
Ion Ratio Lower Upper  
117 100  
82 55.8 46.4 69.6  
119 32.2 26.0 39.0

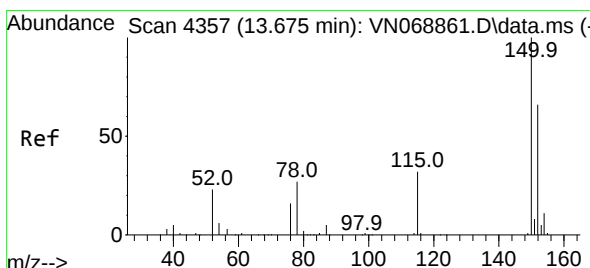
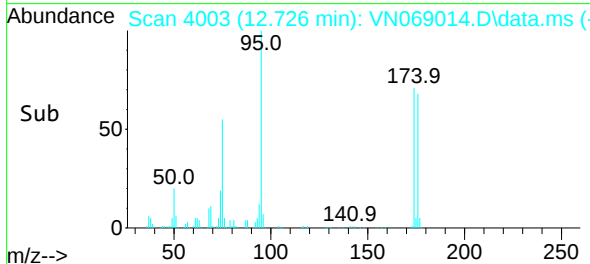
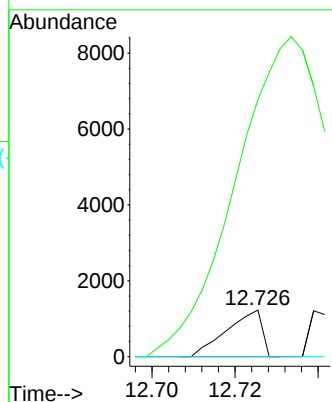
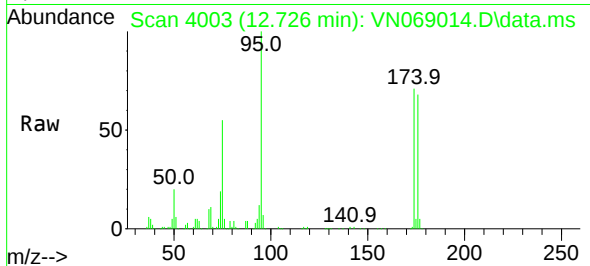




#71  
Bromoform  
Concen: 0.215 ug/l  
RT: 12.726 min Scan# 4003  
Delta R.T. 0.266 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

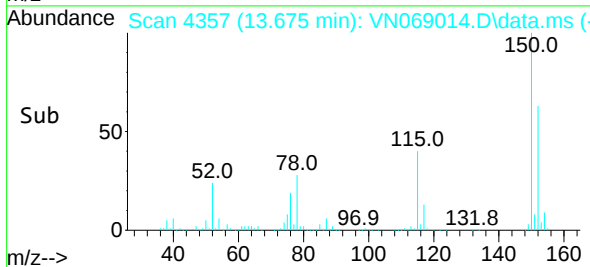
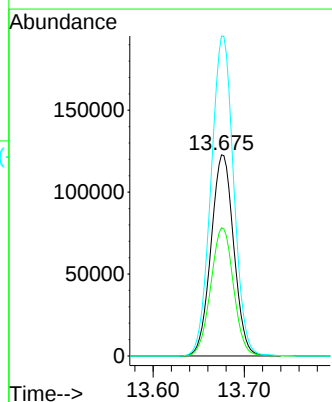
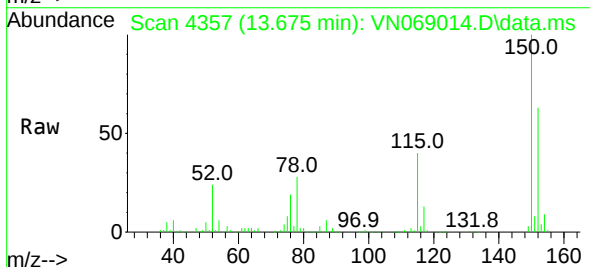
Instrument :  
MSVOA\_N  
ClientSampleId :

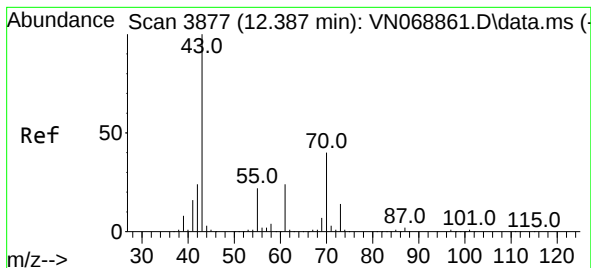
Tgt Ion:173 Resp: 722  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.8 71.5#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. 0.000 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion:152 Resp: 212810  
Ion Ratio Lower Upper  
152 100  
115 63.6 31.4 94.3  
150 158.5 0.0 351.0

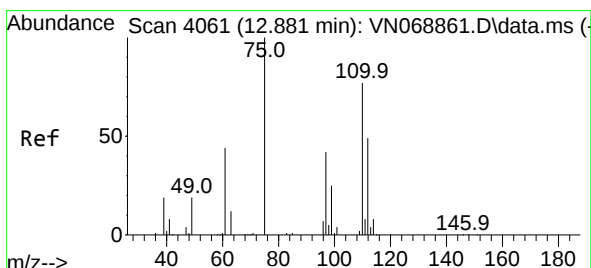
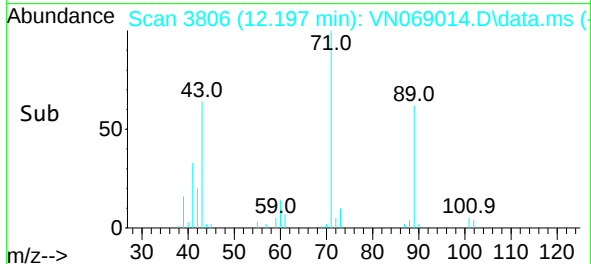
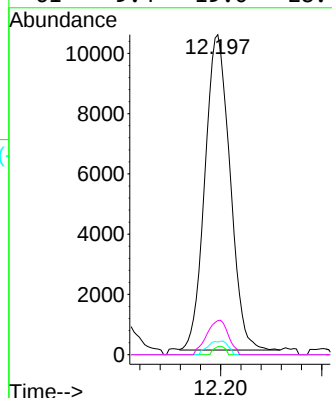
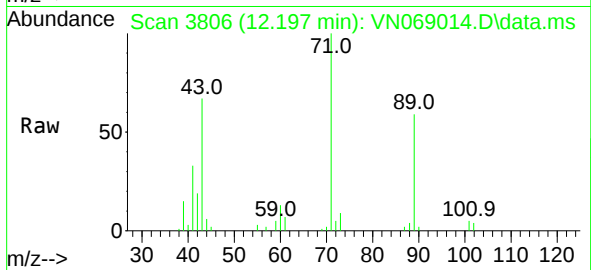




#74  
N-amy1 acetate  
Concen: 2.695 ug/l  
RT: 12.197 min Scan# 3806  
Delta R.T. -0.190 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

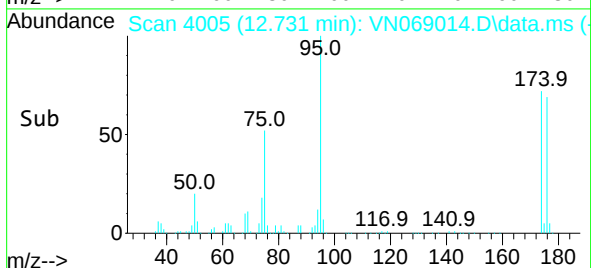
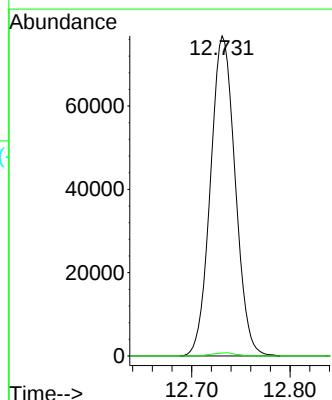
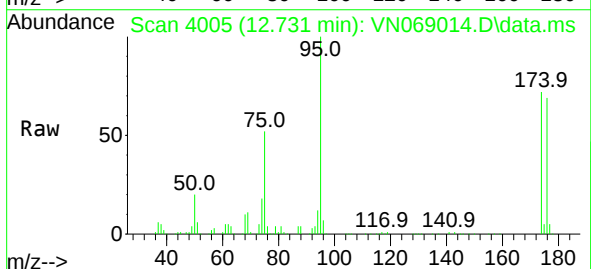
Instrument :  
MSVOA\_N  
ClientSampled :

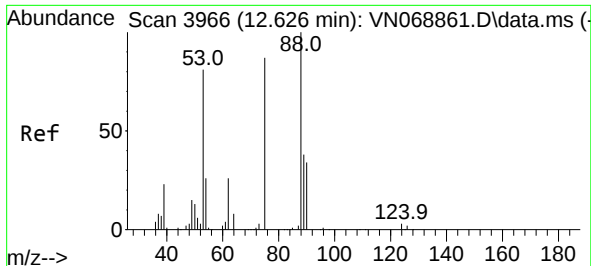
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 18085 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 1.2   | 32.2  | 48.2# |
| 55       | 3.5   | 18.0  | 27.0# |
| 61       | 9.4   | 19.0  | 28.4# |



#76  
1,2,3-Trichloropropane  
Concen: 29.713 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 134541 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 0.9   | 96.2  | 288.4# |

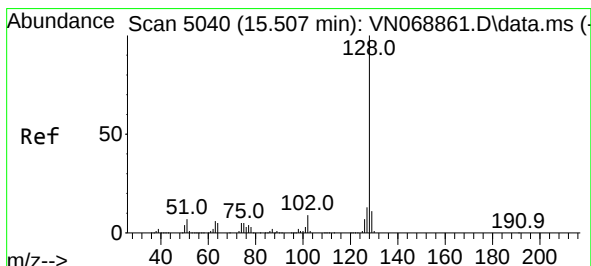
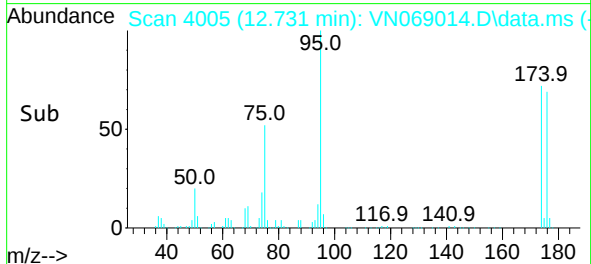
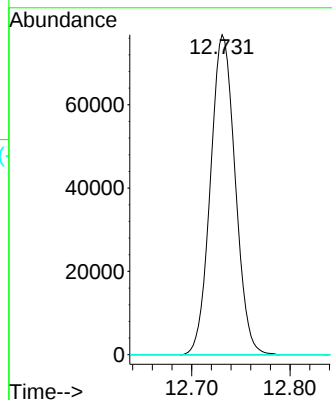
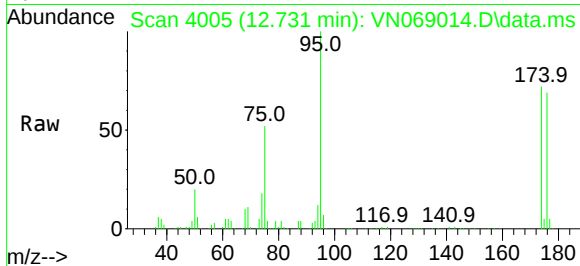




#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.087 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 75 Resp: 134541  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#



#95  
Naphthalene  
Concen: 3.831 ug/l  
RT: 15.520 min Scan# 5045  
Delta R.T. 0.013 min  
Lab File: VN069014.D  
Acq: 19 Oct 2021 6:40

Tgt Ion:128 Resp: 208  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.9 13.3#

