

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101821\  
 Data File : VN069011.D  
 Acq On : 19 Oct 2021 5:25  
 Operator : JC/MD  
 Sample : M4242-07  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 19 10:00:32 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

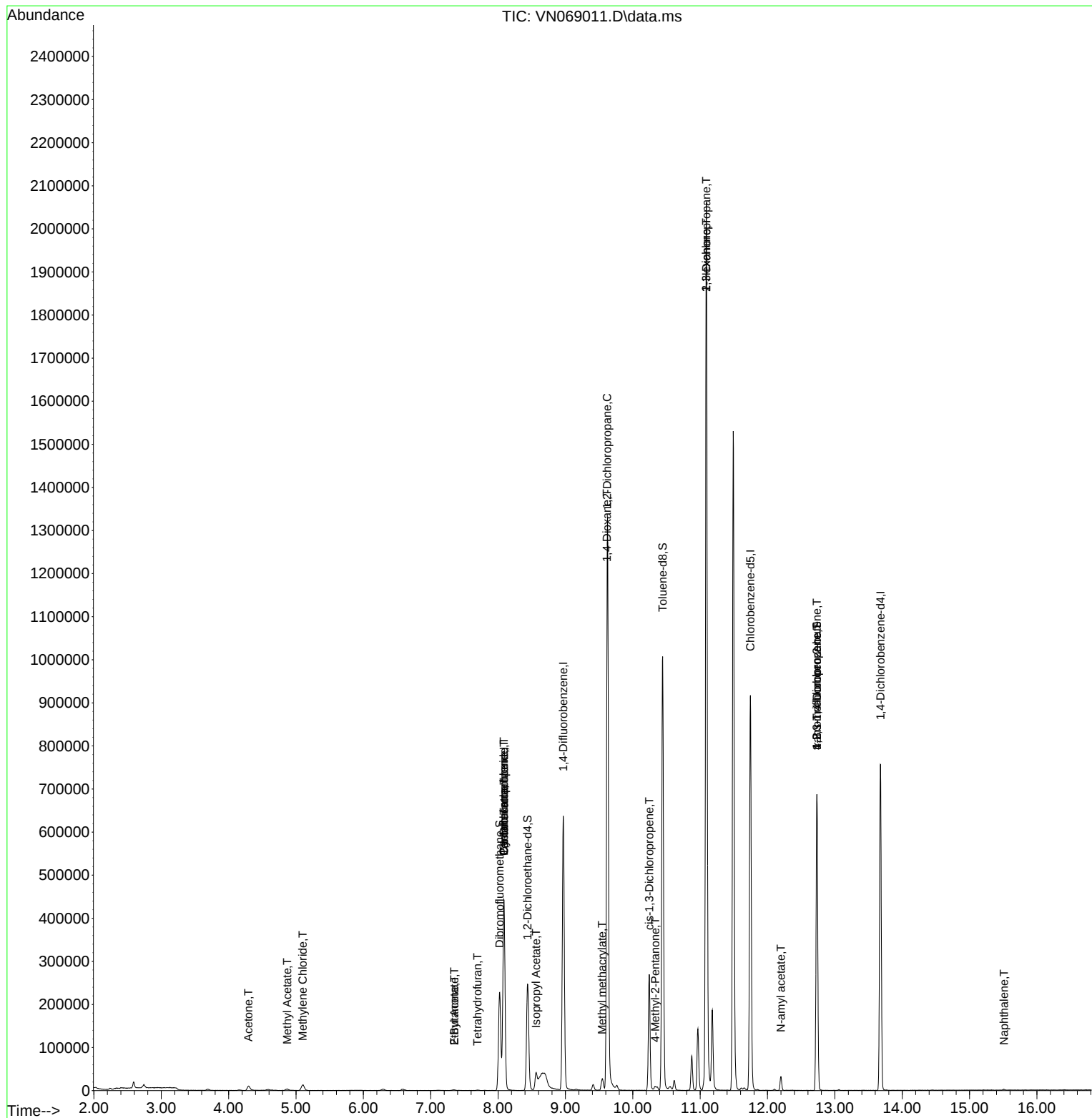
| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| Internal Standards            |        |                |          |        |          |          |
| 1) Pentafluorobenzene         | 8.088  | 168            | 332556   | 50.000 | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114            | 581010   | 50.000 | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 11.746 | 117            | 541922   | 50.000 | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677 | 152            | 204824   | 50.000 | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65             | 213200   | 48.624 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 61 - 141 | Recovery | =      | 97.240%  |          |
| 35) Dibromofluoromethane      | 8.024  | 113            | 168806   | 49.937 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 69 - 133 | Recovery | =      | 99.880%  |          |
| 50) Toluene-d8                | 10.443 | 98             | 716295   | 52.959 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 65 - 126 | Recovery | =      | 105.920% |          |
| 62) 4-Bromofluorobenzene      | 12.733 | 95             | 252496   | 49.480 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 58 - 135 | Recovery | =      | 98.960%  |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        | Qvalue   |          |
| 16) Acetone                   | 4.293  | 43             | 20067    | 12.264 | ug/l     | 96       |
| 18) Methyl Acetate            | 4.870  | 43             | 7980     | 1.286  | ug/l #   | 65       |
| 20) Methylene Chloride        | 5.098  | 84             | 11438    | 3.037  | ug/l     | 93       |
| 25) 2-Butanone                | 7.351  | 43             | 3693     | 1.493  | ug/l     | 99       |
| 29) Tetrahydrofuran           | 7.691  | 42             | 540      | 0.336  | ug/l #   | 54       |
| 31) Cyclohexane               | 8.086  | 56             | 7592     | 1.114  | ug/l #   | 11       |
| 36) 1,1-Dichloropropene       | 8.086  | 75             | 26923    | 5.425  | ug/l #   | 49       |
| 37) Ethyl Acetate             | 7.351  | 43             | 3693     | 0.721  | ug/l #   | 68       |
| 38) Carbon Tetrachloride      | 8.088  | 117            | 34794    | 6.384  | ug/l #   | 15       |
| 43) Isopropyl Acetate         | 8.563  | 43             | 48237    | 5.334  | ug/l #   | 81       |
| 45) 1,2-Dichloropropane       | 9.620  | 63             | 1561     | 0.398  | ug/l #   | 43       |
| 48) Methyl methacrylate       | 9.545  | 41             | 7152     | 1.683  | ug/l #   | 13       |
| 49) 1,4-Dioxane               | 9.617  | 88             | 52       | 36.239 | ug/l #   | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43             | 4566     | 0.871  | ug/l     | 90       |
| 54) cis-1,3-Dichloropropene   | 10.245 | 75             | 53008    | 8.109  | ug/l #   | 60       |
| 57) 1,3-Dichloropropane       | 11.089 | 76             | 22861    | 3.617  | ug/l #   | 42       |
| 59) 2-Hexanone                | 11.092 | 43             | 330576   | 87.908 | ug/l #   | 50       |
| 74) N-amyl acetate            | 12.197 | 43             | 11380    | 1.762  | ug/l #   | 52       |
| 76) 1,2,3-Trichloropropane    | 12.733 | 75             | 130838   | 30.022 | ug/l #   | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733 | 75             | 130838   | 71.826 | ug/l #   | 12       |
| 95) Naphthalene               | 15.509 | 128            | 2733     | 4.077  | ug/l #   | 75       |

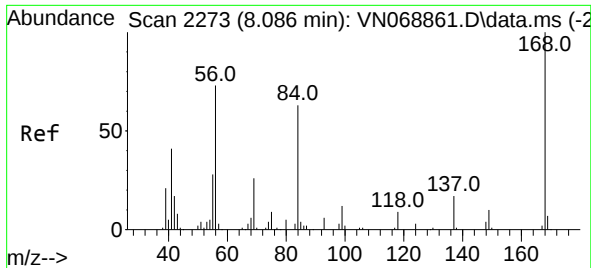
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101821\  
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Sample : M4242-07  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

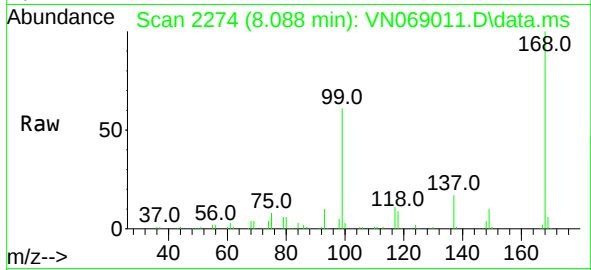
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration



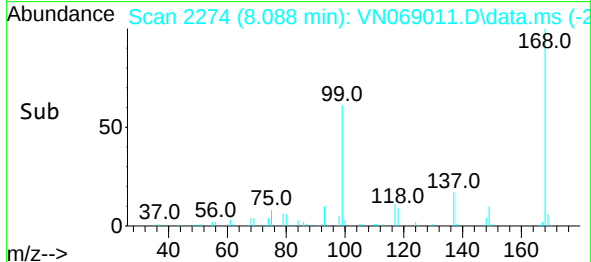
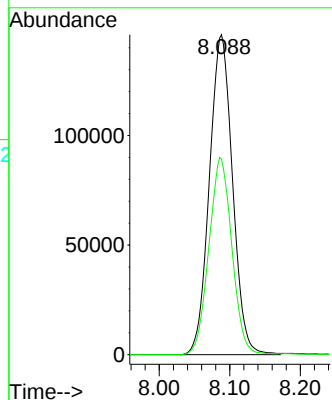


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Instrument :  
MSVOA\_N  
ClientSampled :

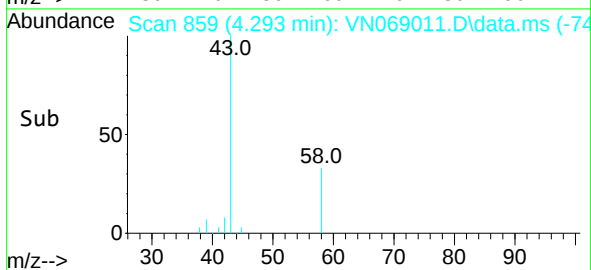
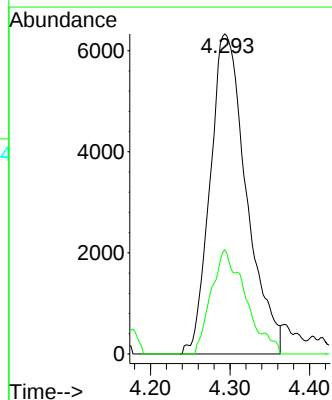
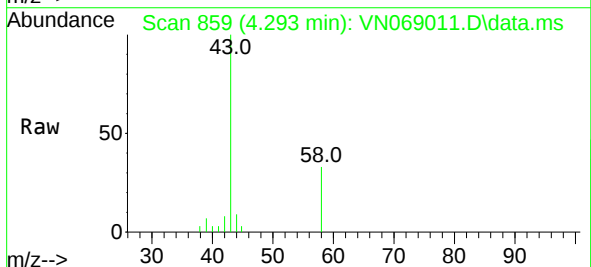


Tgt Ion:168 Resp: 332556  
Ion Ratio Lower Upper  
168 100  
99 61.1 48.9 73.3



#16  
Acetone  
Concen: 12.264 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.008 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 43 Resp: 20067  
Ion Ratio Lower Upper  
43 100  
58 32.5 24.5 36.7





#18

Methyl Acetate

Concen: 1.286 ug/l

RT: 4.870 min Scan# 1074

Delta R.T. 0.016 min

Lab File: VN069011.D

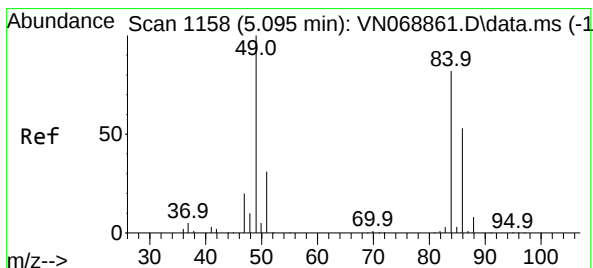
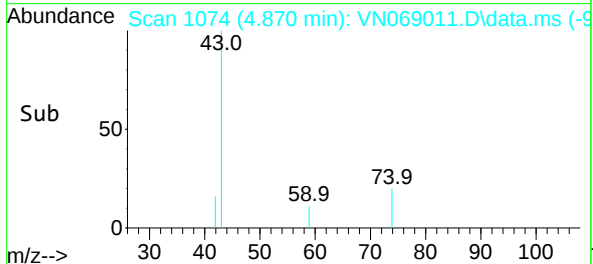
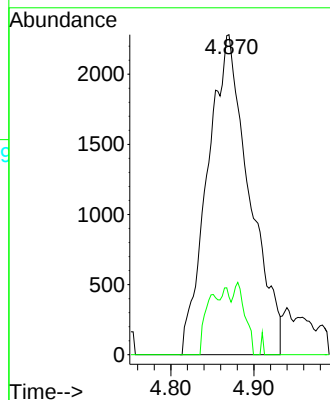
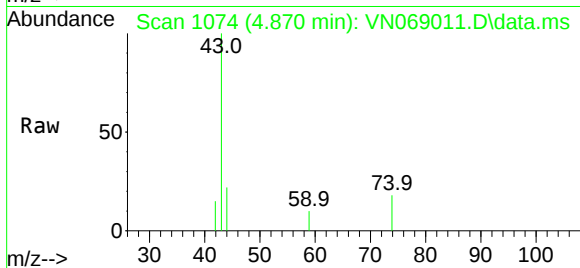
Acq: 19 Oct 2021 5:25

Tgt Ion: 43 Resp: 7980

Ion Ratio Lower Upper

43 100

74 6.4 18.9 28.3#



#20

Methylene Chloride

Concen: 3.037 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. 0.003 min

Lab File: VN069011.D

Acq: 19 Oct 2021 5:25

Tgt Ion: 84 Resp: 11438

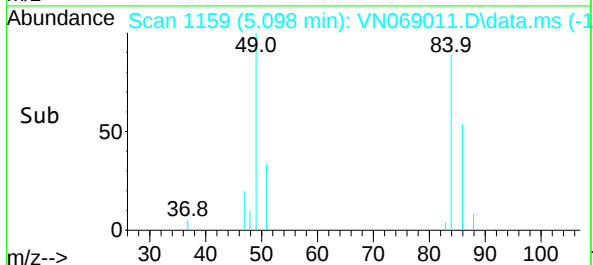
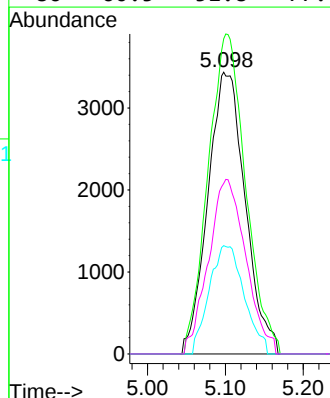
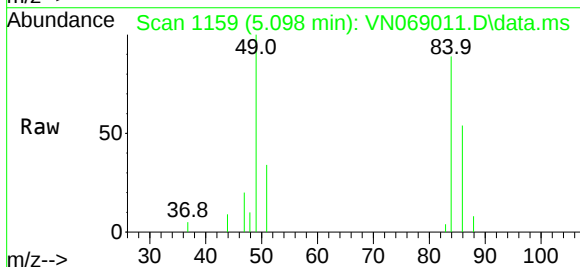
Ion Ratio Lower Upper

84 100

49 111.9 97.6 146.4

51 38.4 30.3 45.5

86 60.5 51.8 77.6

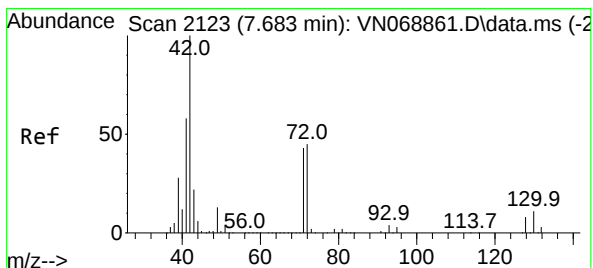
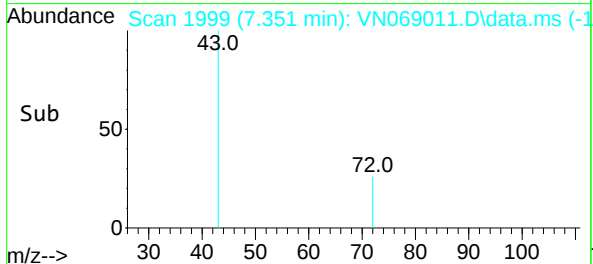
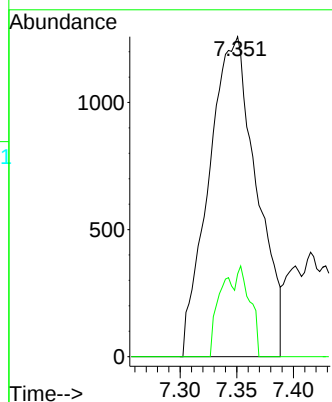
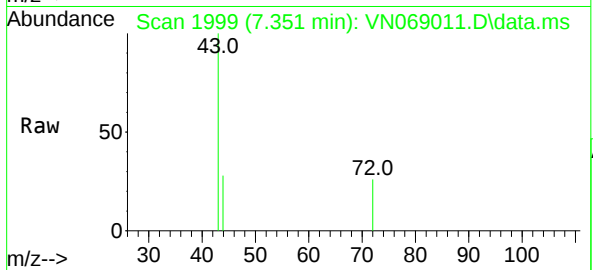




#25  
2-Butanone  
Concen: 1.493 ug/l  
RT: 7.351 min Scan# 1999  
Delta R.T. 0.019 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

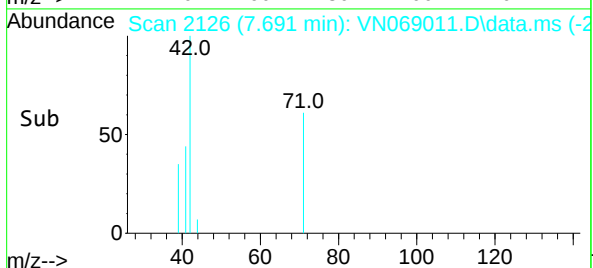
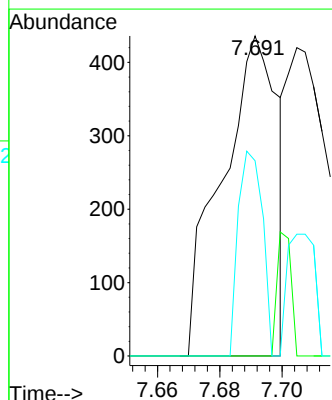
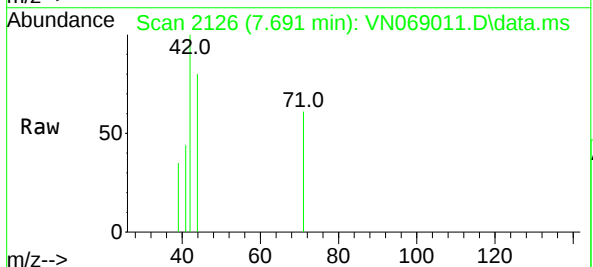
Instrument :  
MSVOA\_N  
ClientSampleId :

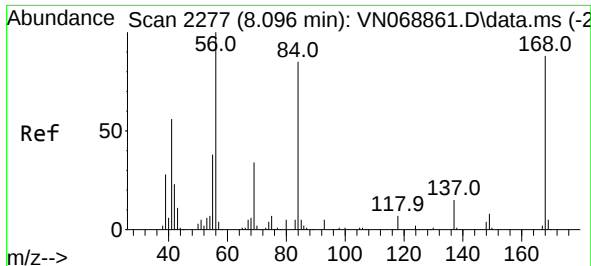
Tgt Ion: 43 Resp: 3693  
Ion Ratio Lower Upper  
43 100  
72 25.8 21.2 31.8



#29  
Tetrahydrofuran  
Concen: 0.336 ug/l  
RT: 7.691 min Scan# 2126  
Delta R.T. 0.008 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 42 Resp: 540  
Ion Ratio Lower Upper  
42 100  
72 0.0 35.4 53.2#  
71 28.0 33.8 50.6#

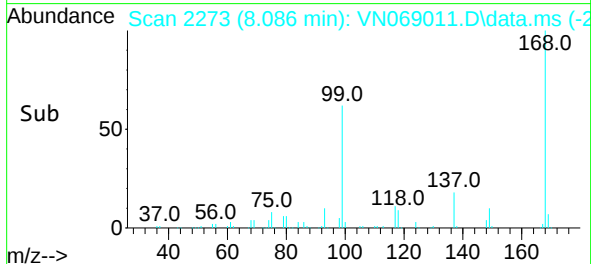
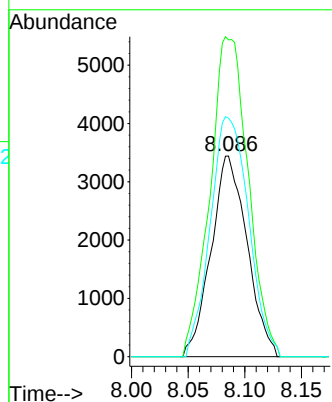
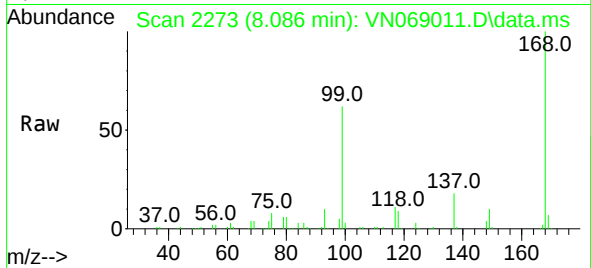




#31  
Cyclohexane  
Concen: 1.114 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.010 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

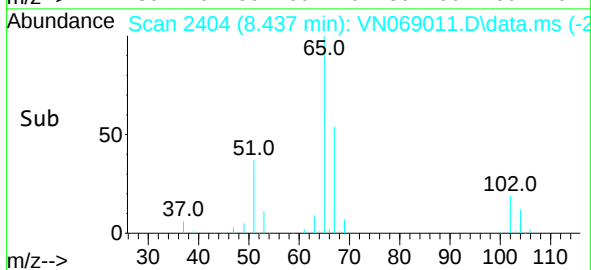
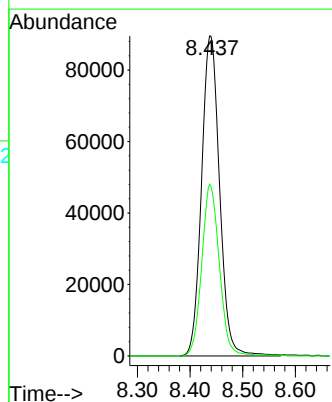
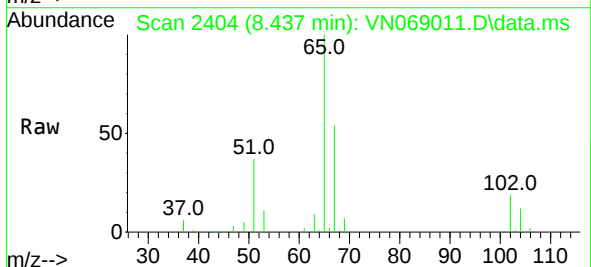
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 56 Resp: 7592  
Ion Ratio Lower Upper  
56 100  
69 157.9 26.9 40.3#  
84 118.9 67.6 101.4#



#33  
1,2-Dichloroethane-d4  
Concen: 48.624 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. -0.003 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 65 Resp: 213200  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 103.8

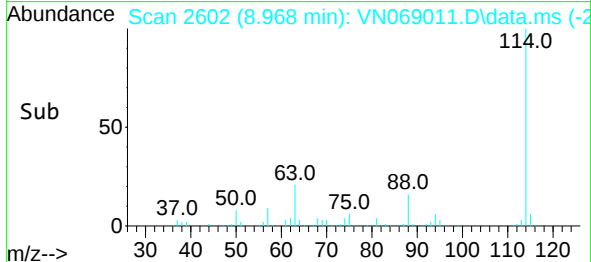
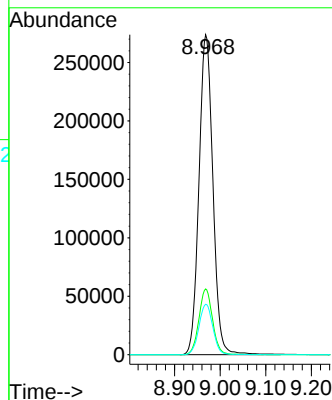
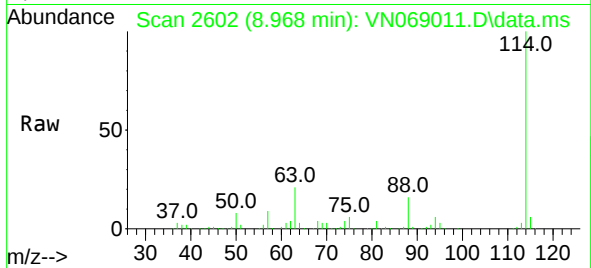




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. -0.000 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

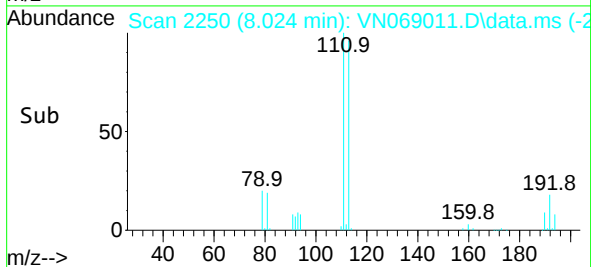
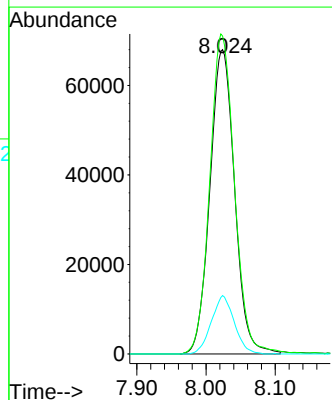
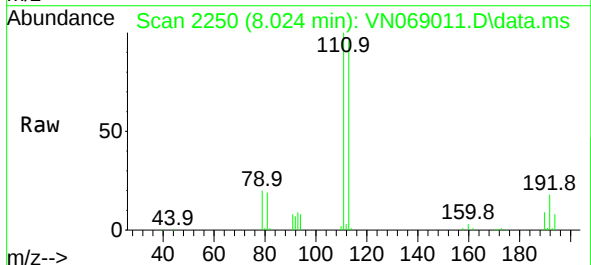
Instrument :  
MSVOA\_N  
ClientSampled :

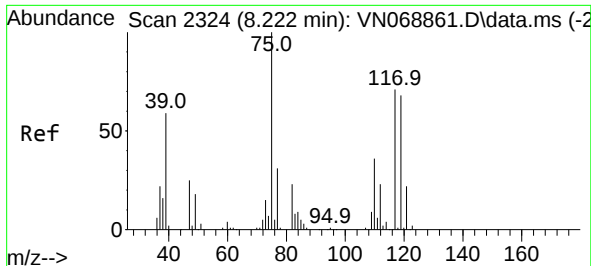
Tgt Ion:114 Resp: 581010  
Ion Ratio Lower Upper  
114 100  
63 20.5 0.0 42.6  
88 15.7 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 49.937 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion:113 Resp: 168806  
Ion Ratio Lower Upper  
113 100  
111 104.9 83.2 124.8  
192 17.8 15.0 22.4

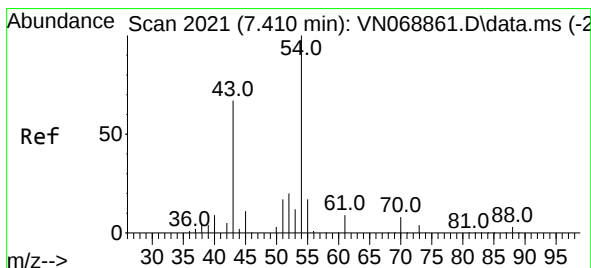
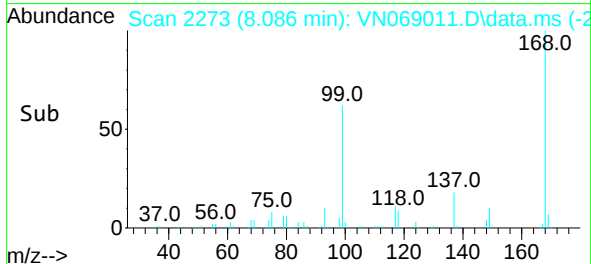
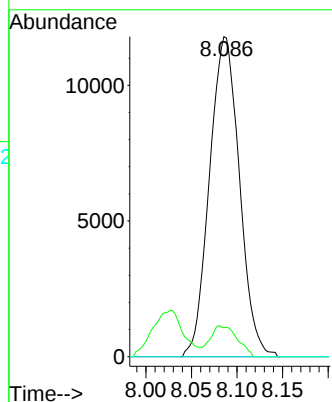
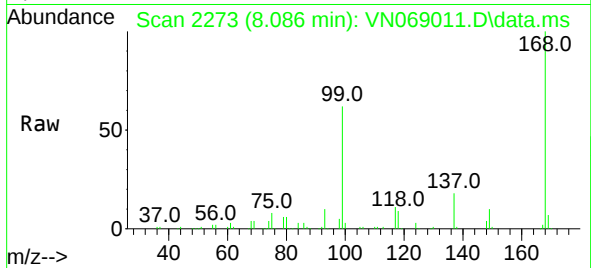




#36  
1,1-Dichloropropene  
Concen: 5.425 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

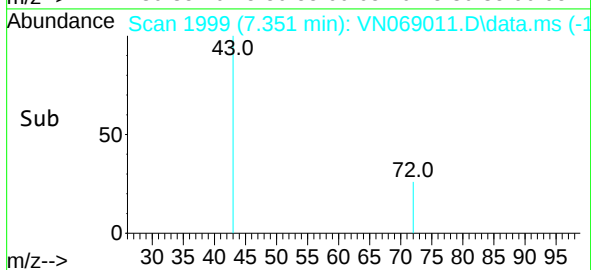
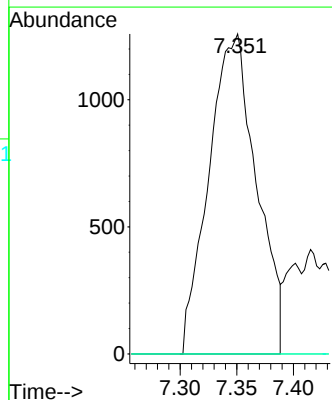
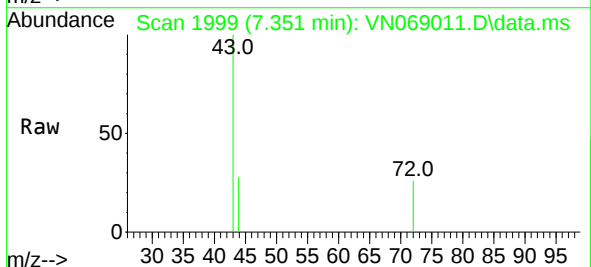
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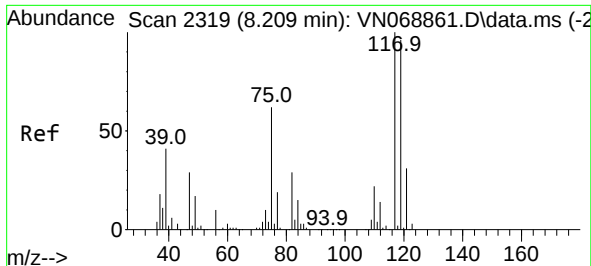
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Ion Ratio Lower Upper  
75 100  
110 8.7 17.9 53.8#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 0.721 ug/l  
RT: 7.351 min Scan# 1999  
Delta R.T. -0.059 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

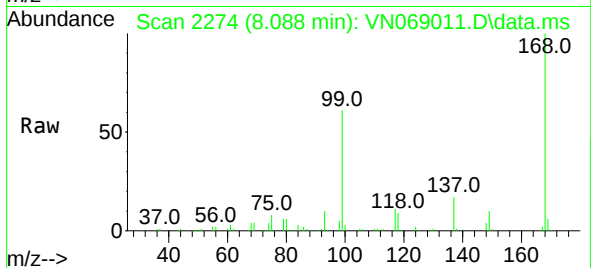
Tgt Ion: 43 Resp: 3693  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.2 16.8#  
70 0.0 8.4 12.6#



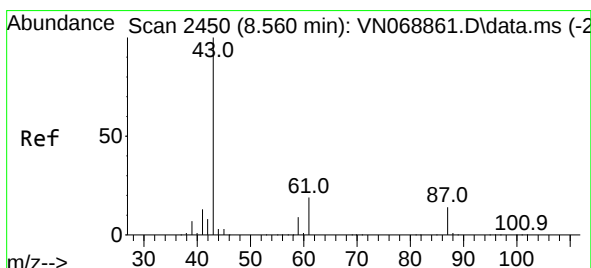
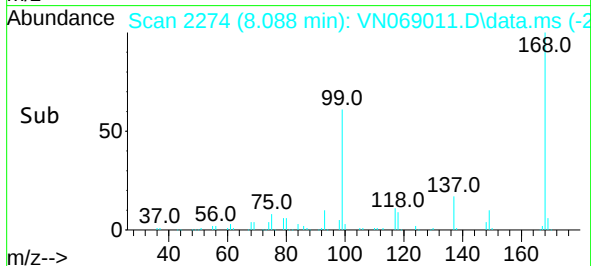
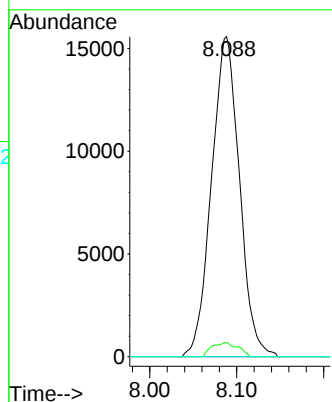


#38  
Carbon Tetrachloride  
Concen: 6.384 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.121 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Instrument :  
MSVOA\_N  
ClientSampleId :

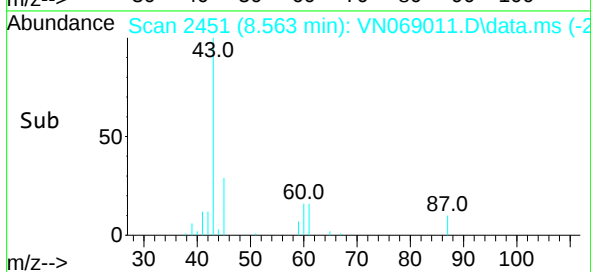
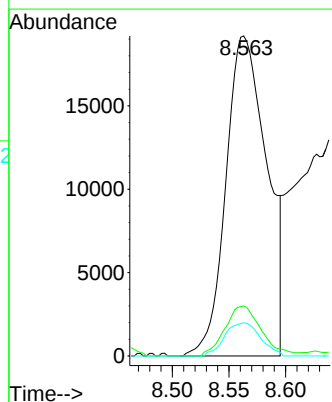
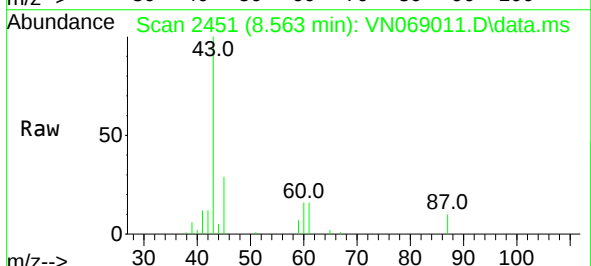


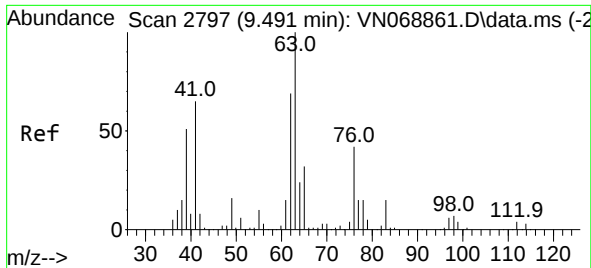
Tgt Ion:117 Resp: 34794  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.9 115.3#  
121 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 5.334 ug/l  
RT: 8.563 min Scan# 2451  
Delta R.T. 0.003 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 43 Resp: 48237  
Ion Ratio Lower Upper  
43 100  
61 13.9 20.4 30.6#  
87 9.1 10.7 16.1#

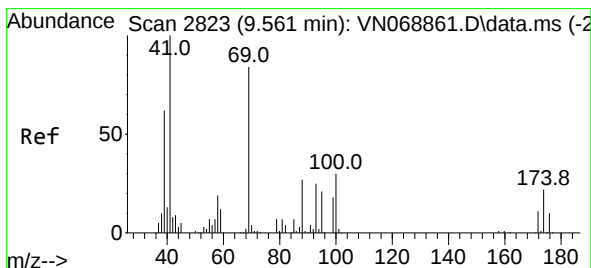
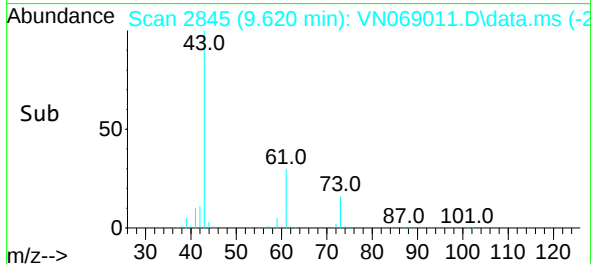
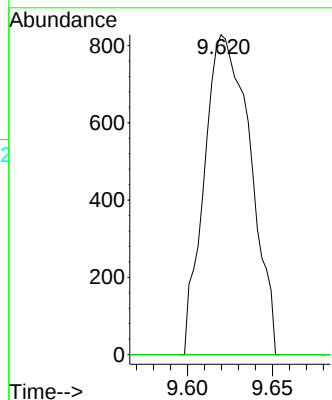
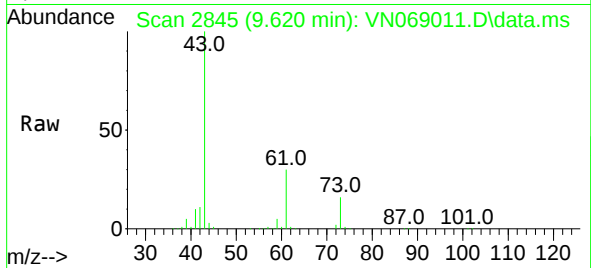




#45  
1,2-Dichloropropane  
Concen: 0.398 ug/l  
RT: 9.620 min Scan# 2845  
Delta R.T. 0.129 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

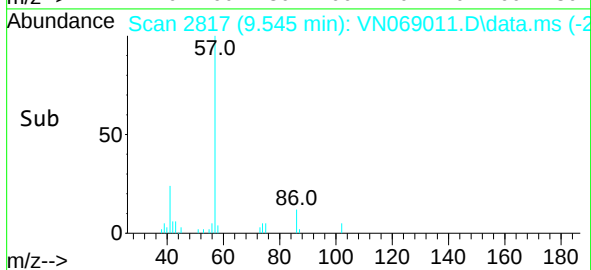
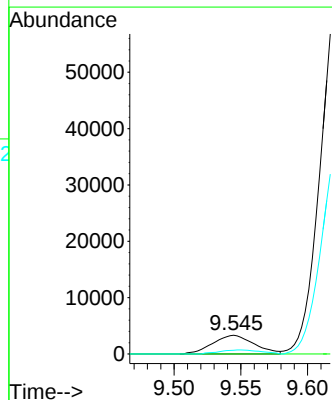
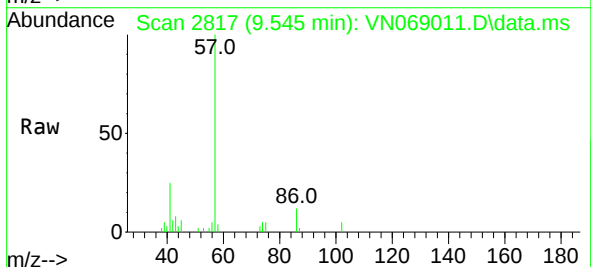
Instrument :  
MSVOA\_N  
ClientSampled :

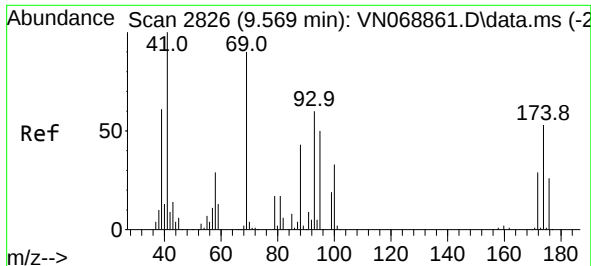
Tgt Ion: 63 Resp: 1561  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.6 38.4#



#48  
Methyl methacrylate  
Concen: 1.683 ug/l  
RT: 9.545 min Scan# 2817  
Delta R.T. -0.016 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 41 Resp: 7152  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.4 99.6#  
39 0.0 50.2 75.2#

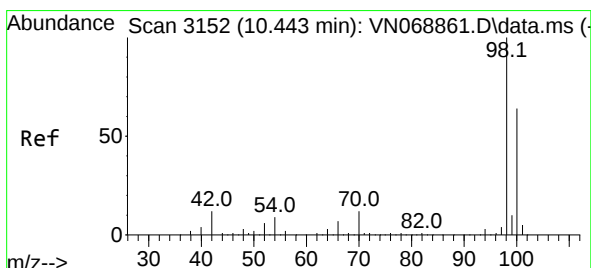
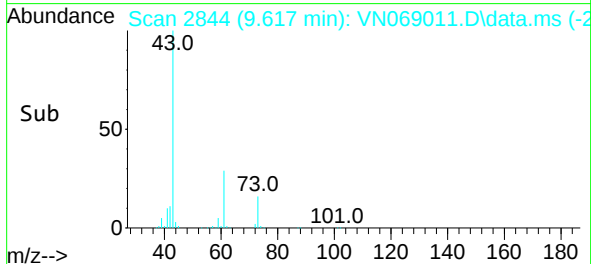
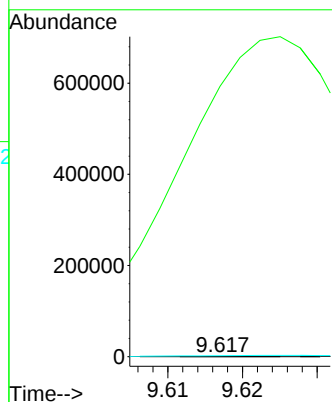
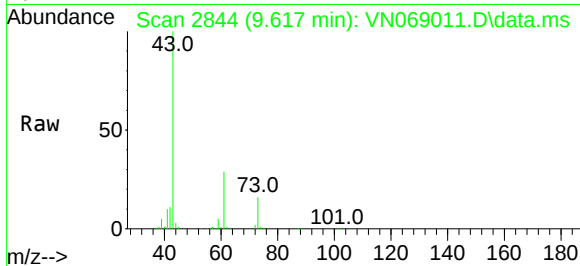




#49  
1,4-Dioxane  
Concen: 36.239 ug/l  
RT: 9.617 min Scan# 2844  
Delta R.T. 0.048 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

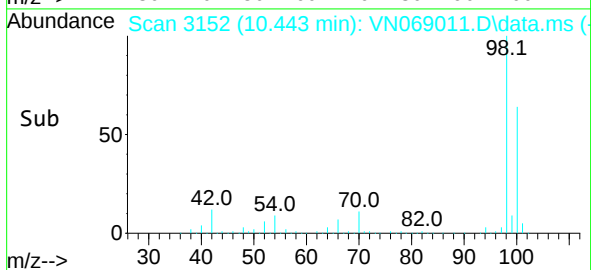
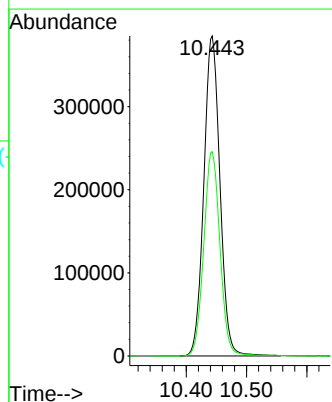
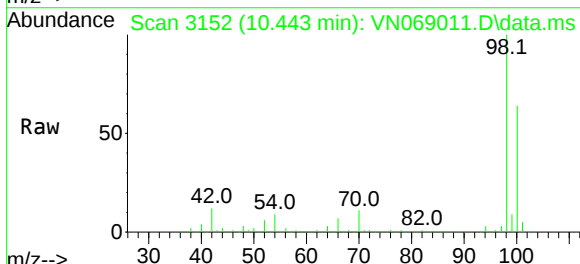
Instrument :  
MSVOA\_N  
ClientSampled :

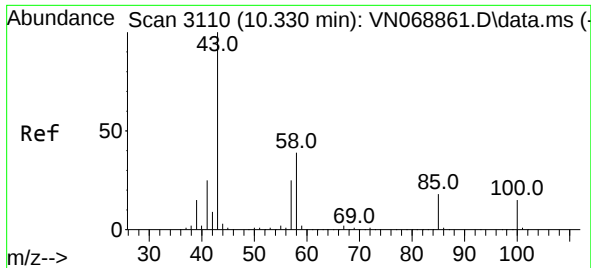
Tgt Ion: 88 Resp: 52  
Ion Ratio Lower Upper  
88 100  
43 2612669.2 24.9 37.3#  
58 10017.3 56.9 85.3#



#50  
Toluene-d8  
Concen: 52.959 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

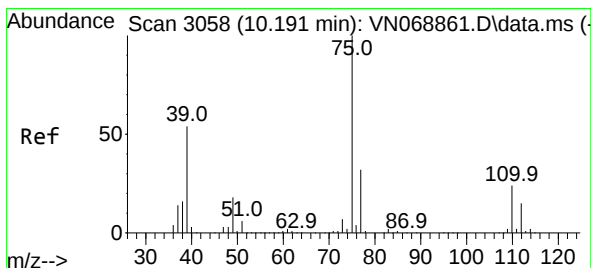
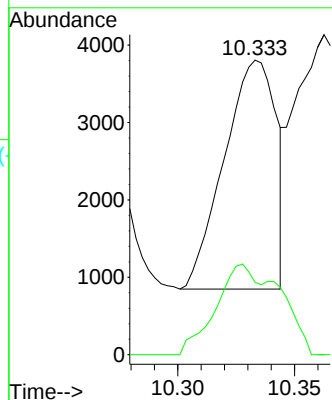
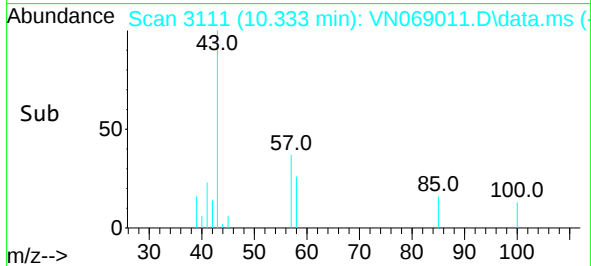
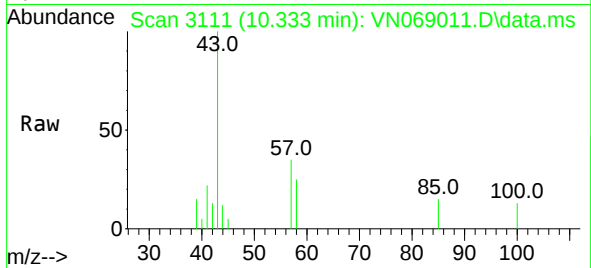
Tgt Ion: 98 Resp: 716295  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.5 77.3





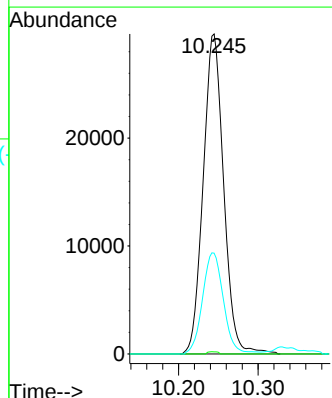
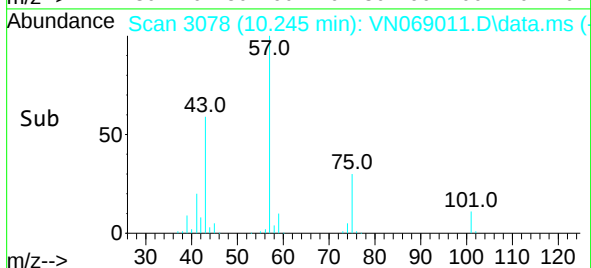
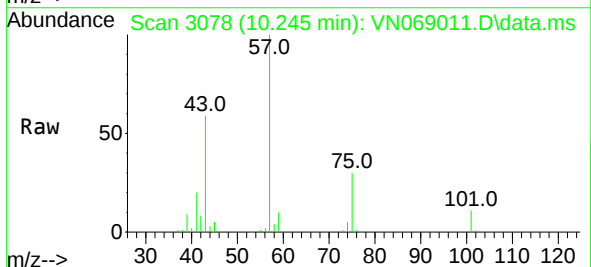
#51  
4-Methyl-2-Pentanone  
Concen: 0.871 ug/l  
RT: 10.333 min Scan# 3111  
Delta R.T. 0.003 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 43 Resp: 4566  
Ion Ratio Lower Upper  
43 100  
58 32.5 31.0 46.4

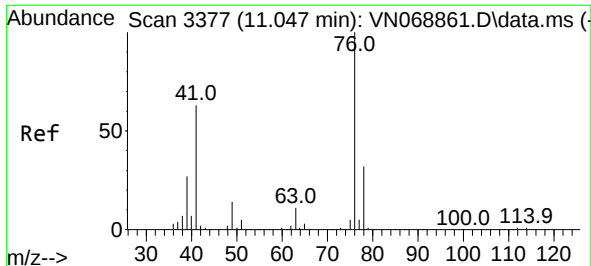


#54  
cis-1,3-Dichloropropene  
Concen: 8.109 ug/l  
RT: 10.245 min Scan# 3078  
Delta R.T. 0.054 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 75 Resp: 53008  
Ion Ratio Lower Upper  
75 100  
77 0.7 25.6 38.4#  
39 31.5 42.9 64.3#



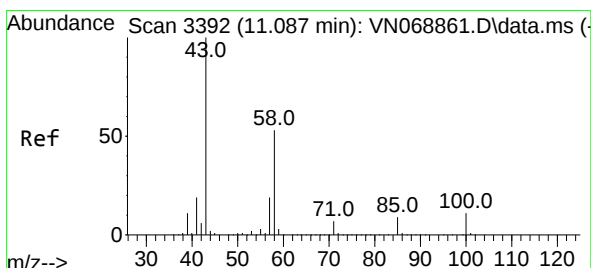
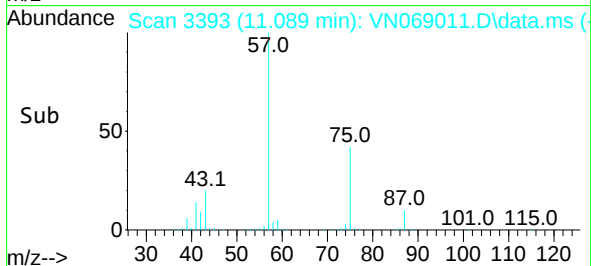
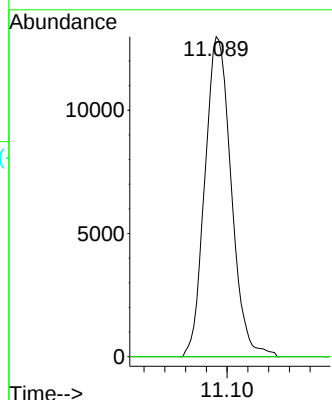
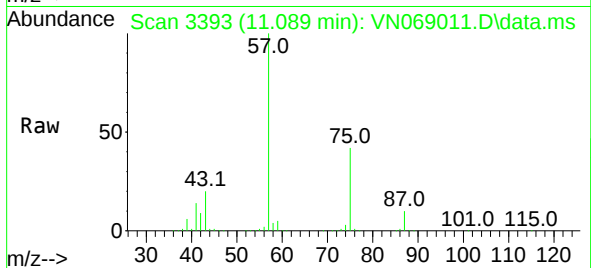
Instrument :  
MSVOA\_N  
ClientSampleId :



#57  
1,3-Dichloropropane  
Concen: 3.617 ug/l  
RT: 11.089 min Scan# 3393  
Delta R.T. 0.043 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

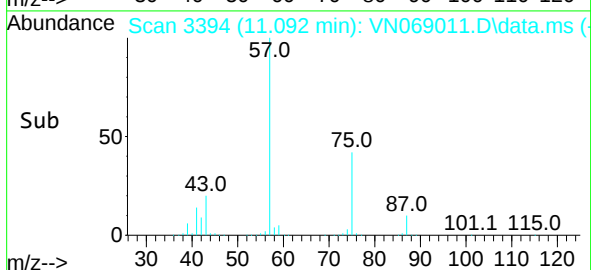
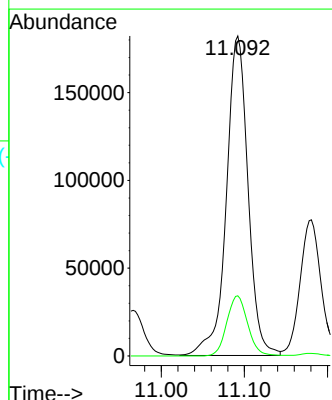
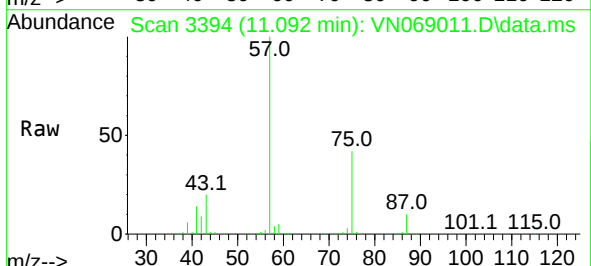
Instrument :  
MSVOA\_N  
ClientSampleId :

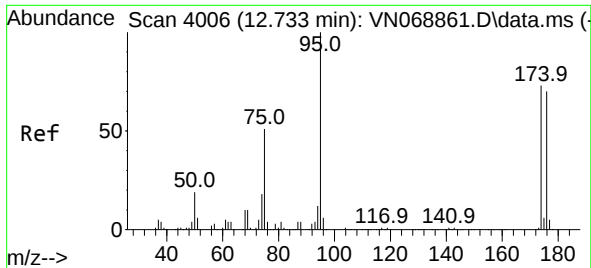
Tgt Ion: 76 Resp: 22861  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.8#



#59  
2-Hexanone  
Concen: 87.908 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.005 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 43 Resp: 330576  
Ion Ratio Lower Upper  
43 100  
58 18.2 26.9 80.7#

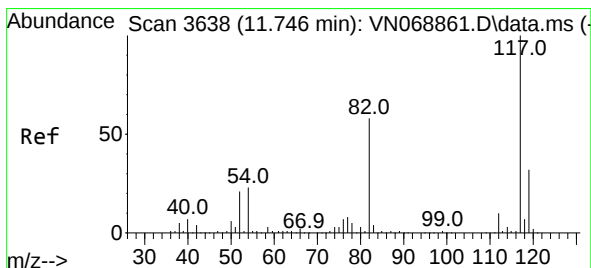
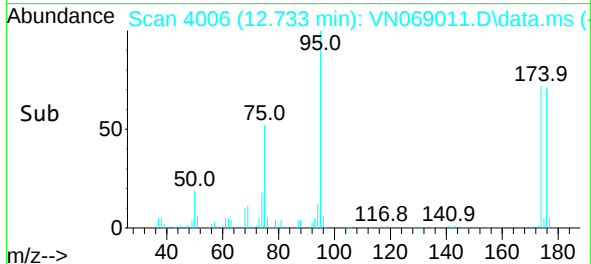
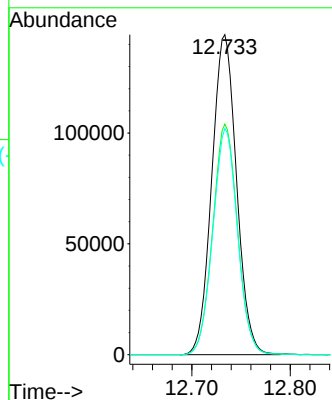
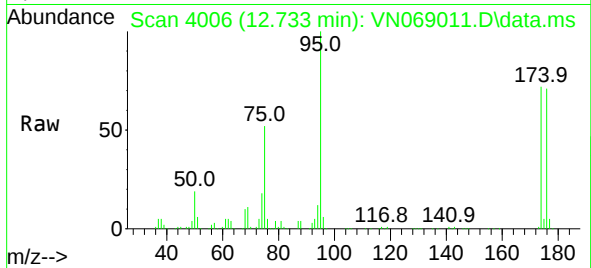




#62  
4-Bromofluorobenzene  
Concen: 49.480 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

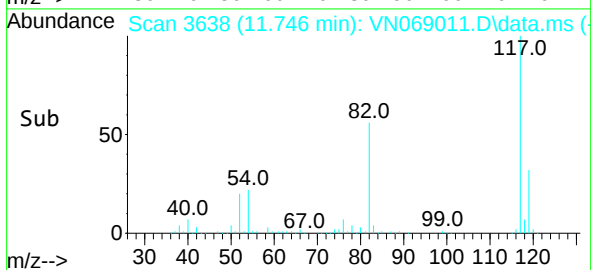
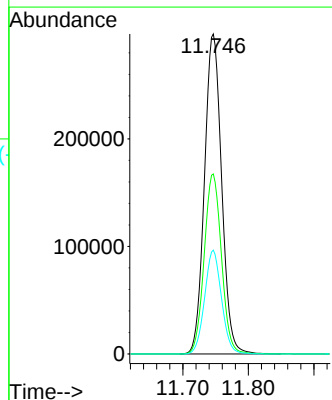
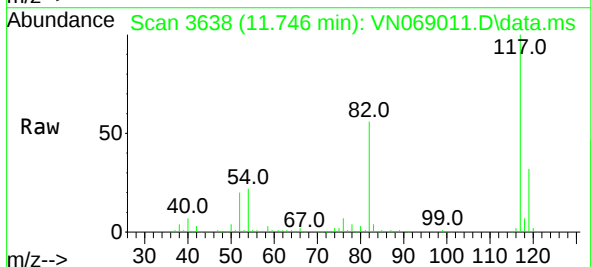
Instrument :  
MSVOA\_N  
ClientSampleId :

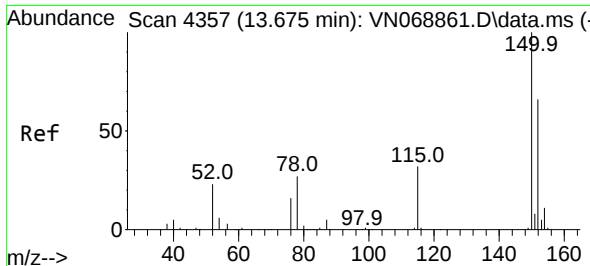
Tgt Ion: 95 Resp: 252496  
Ion Ratio Lower Upper  
95 100  
174 72.3 0.0 144.8  
176 70.5 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 117 Resp: 541922  
Ion Ratio Lower Upper  
117 100  
82 56.2 46.4 69.6  
119 32.4 26.0 39.0

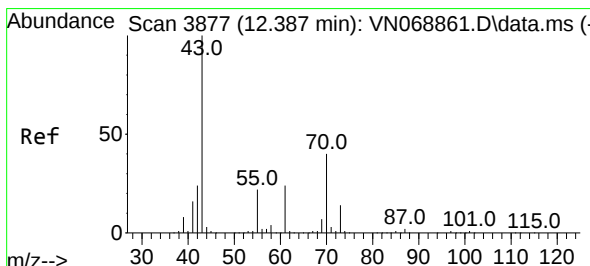
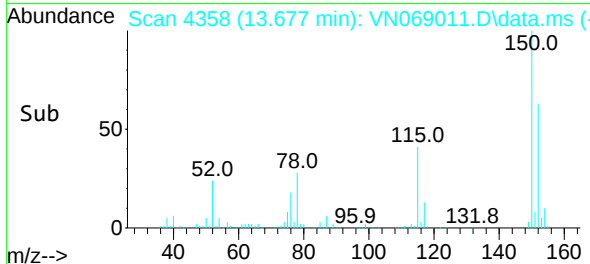
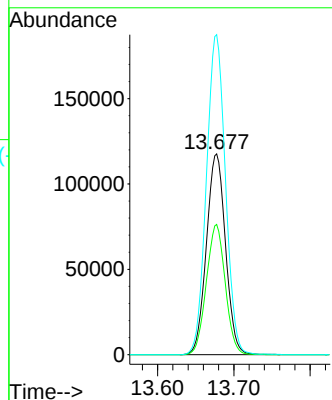
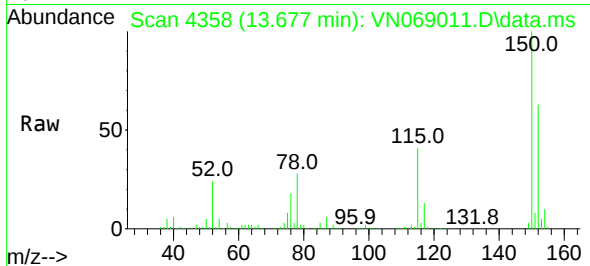




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.677 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

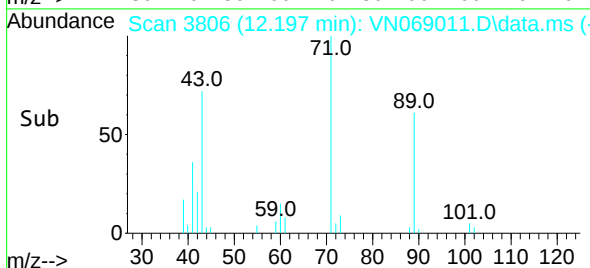
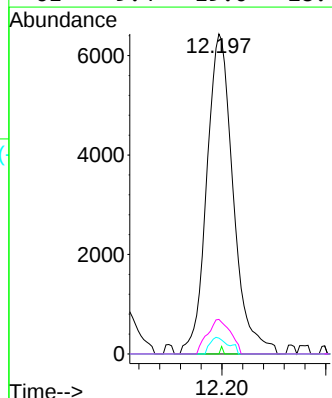
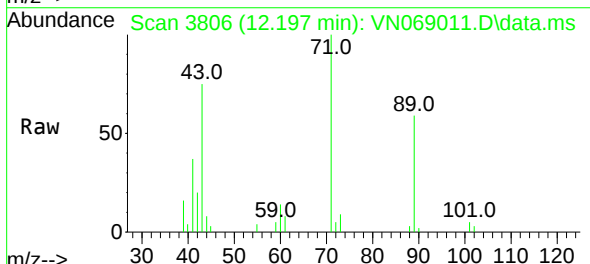
Instrument :  
MSVOA\_N  
ClientSampleId :

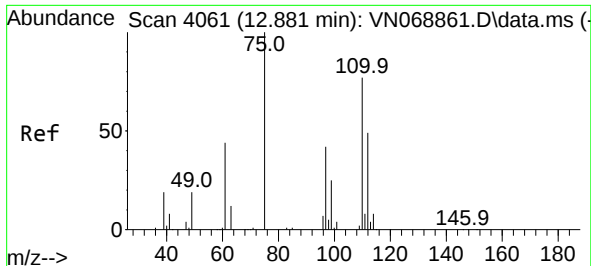
Tgt Ion:152 Resp: 204824  
Ion Ratio Lower Upper  
152 100  
115 64.1 31.4 94.3  
150 158.4 0.0 351.0



#74  
N-ethyl acetate  
Concen: 1.762 ug/l  
RT: 12.197 min Scan# 3806  
Delta R.T. -0.190 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Tgt Ion: 43 Resp: 11380  
Ion Ratio Lower Upper  
43 100  
70 0.2 32.2 48.2#  
55 3.6 18.0 27.0#  
61 9.4 19.0 28.4#

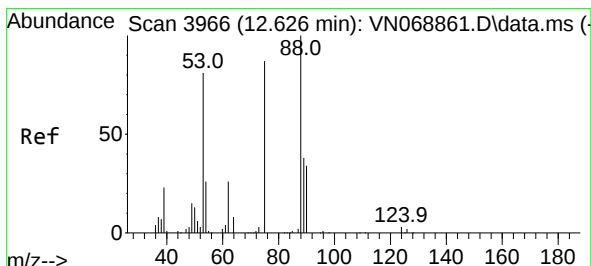
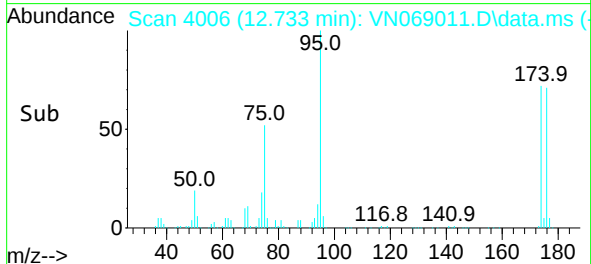
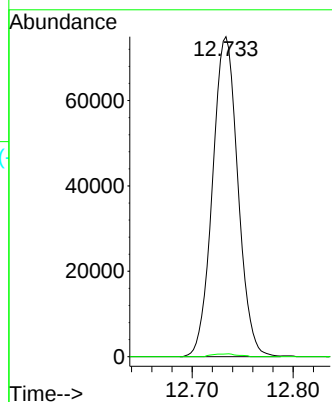
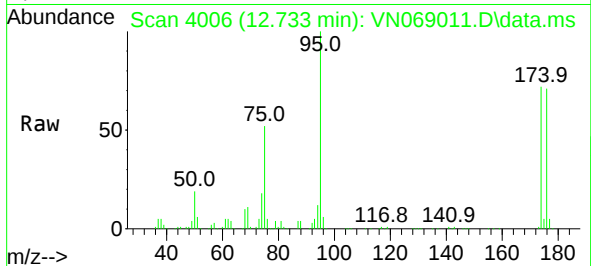




#76  
1,2,3-Trichloropropane  
Concen: 30.022 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.148 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

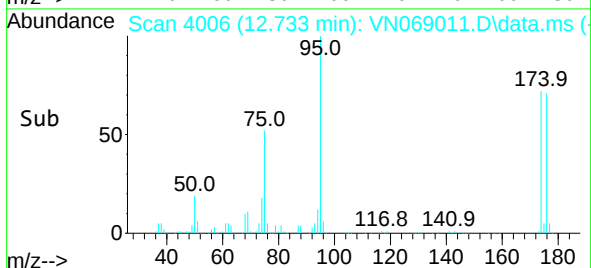
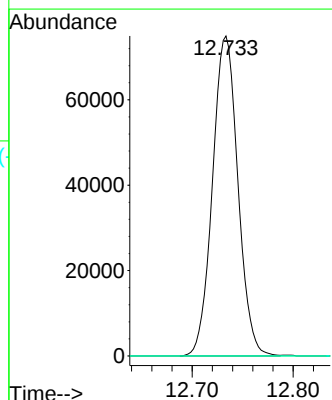
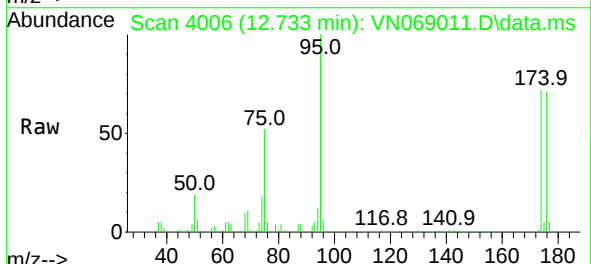
Instrument :  
MSVOA\_N  
ClientSampled :

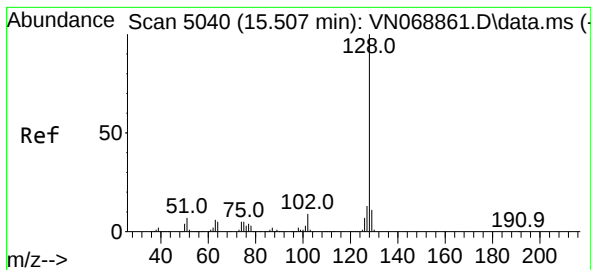
Tgt Ion: 75 Resp: 130838  
Ion Ratio Lower Upper  
75 100  
77 0.9 96.2 288.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.826 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

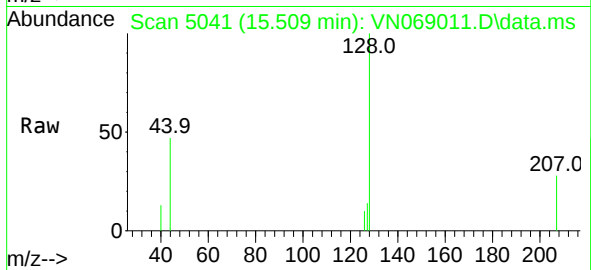
Tgt Ion: 75 Resp: 130838  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#





#95  
Naphthalene  
Concen: 4.077 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN069011.D  
Acq: 19 Oct 2021 5:25

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 2733  
Ion Ratio Lower Upper  
128 100  
127 4.6 10.5 15.7#  
129 0.0 8.9 13.3#

