

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN012821\  
 Data File : VN065665.D  
 Acq On : 28 Jan 2021 21:34  
 Operator : JC/MD  
 Sample : M1174-02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OWS-1

Quant Time: Jan 29 01:27:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012521W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 25 13:47:28 2021  
 Response via : Initial Calibration

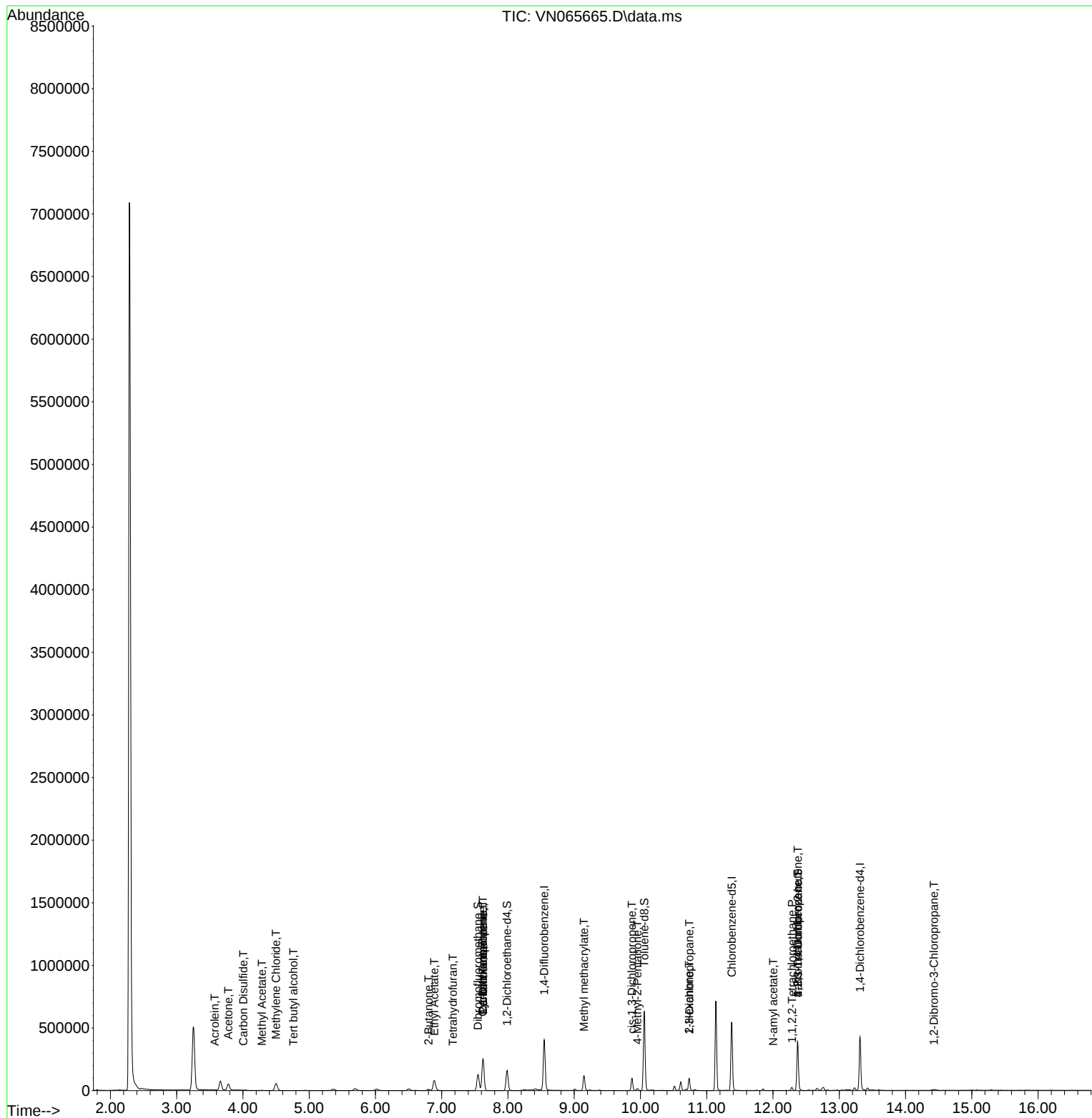
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 7.624          | 168  | 209312     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.547          | 114  | 362496     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.376         | 117  | 324708     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.312         | 152  | 119790     | 50.00   | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.987          | 65   | 133004     | 48.30   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 96.60%  |        |          |
| 35) Dibromofluoromethane      | 7.547          | 113  | 105720     | 49.22   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 98.44%  |        |          |
| 50) Toluene-d8                | 10.058         | 98   | 454434     | 53.82   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 107.64% |        |          |
| 62) 4-Bromofluorobenzene      | 12.373         | 95   | 156206     | 51.37   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 102.74% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol        | 4.763          | 59   | 369        | 0.72    | ug/l # | 73       |
| 13) Acrolein                  | 3.573          | 56   | 786        | 19.72   | ug/l   | 87       |
| 16) Acetone                   | 3.779          | 43   | 77218      | 72.03   | ug/l   | 96       |
| 17) Carbon Disulfide          | 4.007          | 76   | 1915       | 0.24    | ug/l # | 74       |
| 18) Methyl Acetate            | 4.287          | 43   | 5168       | 1.72    | ug/l # | 64       |
| 20) Methylene Chloride        | 4.499          | 84   | 41598      | 14.01   | ug/l   | 93       |
| 25) 2-Butanone                | 6.801          | 43   | 14579      | 8.67    | ug/l   | 99       |
| 29) Tetrahydrofuran           | 7.171          | 42   | 377        | 0.31    | ug/l # | 32       |
| 31) Cyclohexane               | 7.618          | 56   | 4235       | 0.82    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.621          | 75   | 16546      | 4.54    | ug/l # | 47       |
| 37) Ethyl Acetate             | 6.888          | 43   | 136201     | 38.92   | ug/l   | 97       |
| 38) Carbon Tetrachloride      | 7.621          | 117  | 19826      | 6.60    | ug/l # | 16       |
| 48) Methyl methacrylate       | 9.148          | 41   | 6054       | 2.06    | ug/l # | 20       |
| 51) 4-Methyl-2-Pentanone      | 9.952          | 43   | 11927      | 3.49    | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene   | 9.872          | 75   | 18751      | 3.98    | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 10.737         | 76   | 955        | 0.22    | ug/l # | 43       |
| 59) 2-Hexanone                | 10.733         | 43   | 15025      | 6.33    | ug/l # | 60       |
| 74) N-amyl acetate            | 12.003         | 43   | 1925       | 0.43    | ug/l # | 42       |
| 75) 1,1,2,2-Tetrachloroethane | 12.286         | 83   | 865        | 0.28    | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.373         | 75   | 72903      | 23.27   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.373         | 75   | 72903      | 59.61   | ug/l # | 12       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.428         | 75   | 218        | 0.35    | ug/l # | 12       |
| -----                         |                |      |            |         |        |          |

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

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ALS Vial : 28 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012521W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 25 13:47:28 2021  
Response via : Initial Calibration

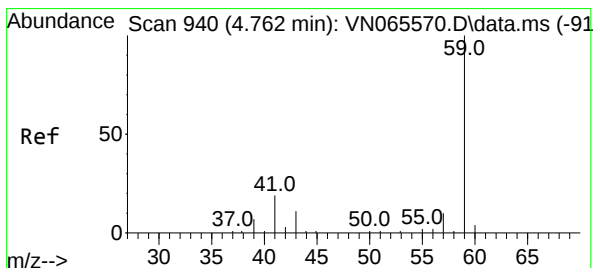
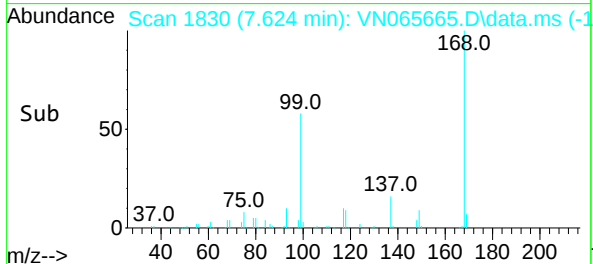
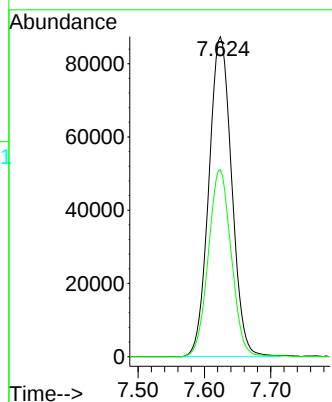
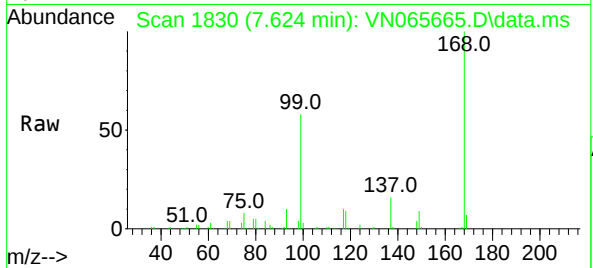




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

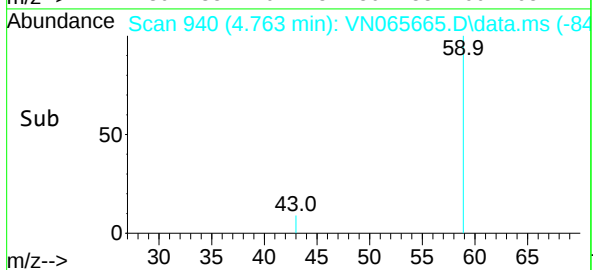
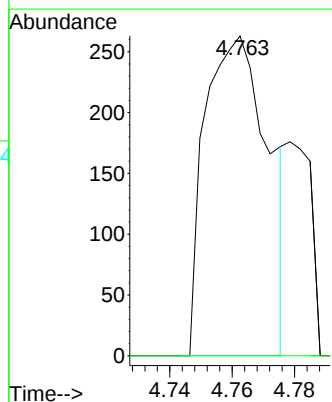
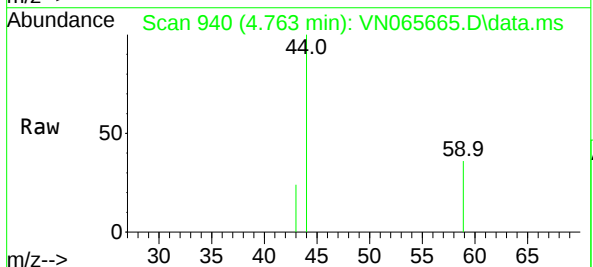
Instrument :  
MSVOA\_N  
ClientSampled :  
OWS-1

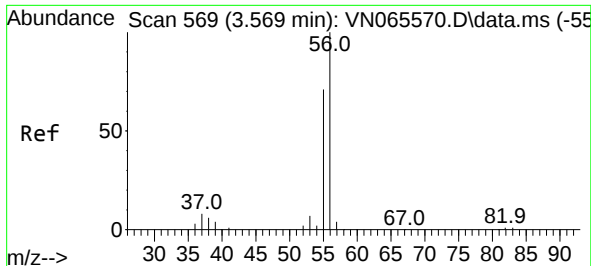
Tgt Ion:168 Resp: 209312  
Ion Ratio Lower Upper  
168 100  
99 58.5 42.6 63.8



#11  
Tert butyl alcohol  
Concen: 0.72 ug/l  
RT: 4.763 min Scan# 940  
Delta R.T. 0.001 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 59 Resp: 369  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

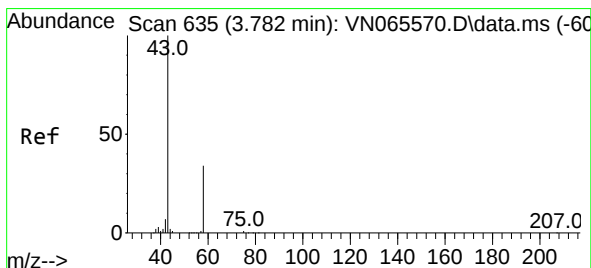
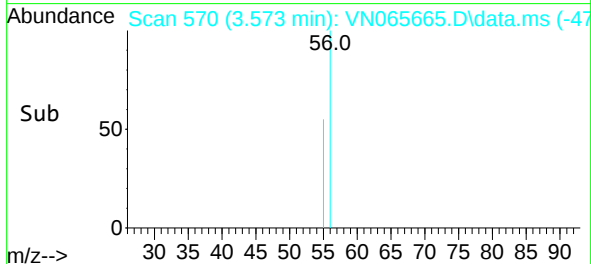
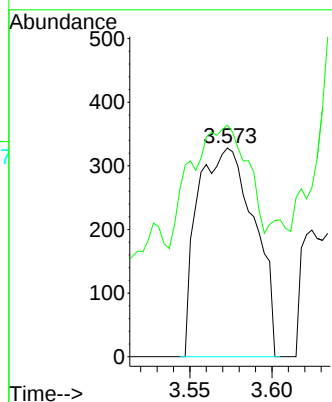
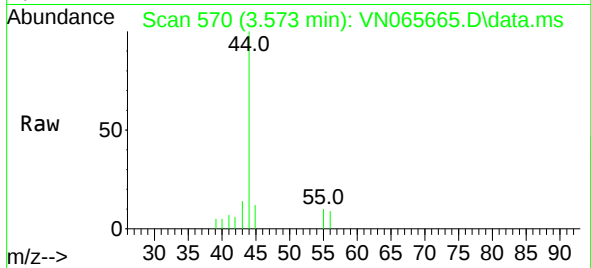




#13  
Acrolein  
Concen: 19.72 ug/l  
RT: 3.573 min Scan# 570  
Delta R.T. 0.004 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

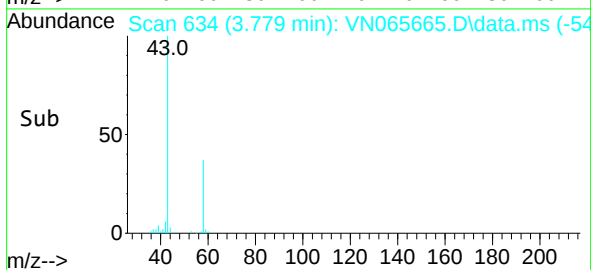
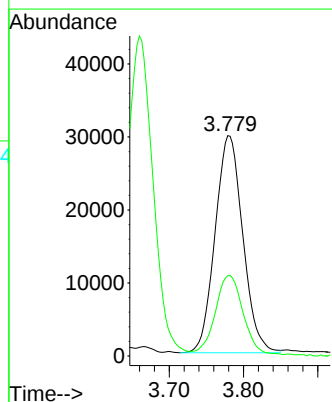
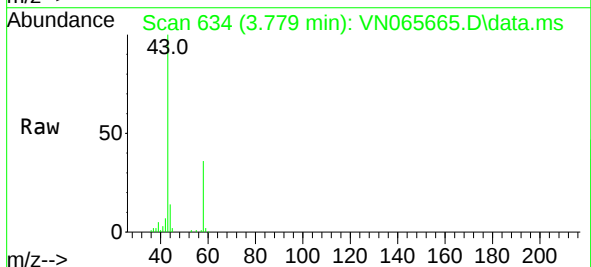
Instrument :  
MSVOA\_N  
ClientSampled :  
OWS-1

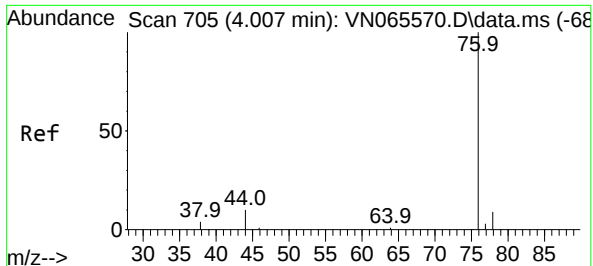
Tgt Ion: 56 Resp: 786  
Ion Ratio Lower Upper  
56 100  
55 59.0 56.0 84.0



#16  
Acetone  
Concen: 72.03 ug/l  
RT: 3.779 min Scan# 634  
Delta R.T. -0.003 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 43 Resp: 77218  
Ion Ratio Lower Upper  
43 100  
58 36.1 27.0 40.6

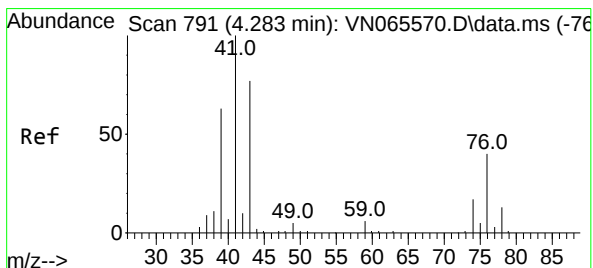
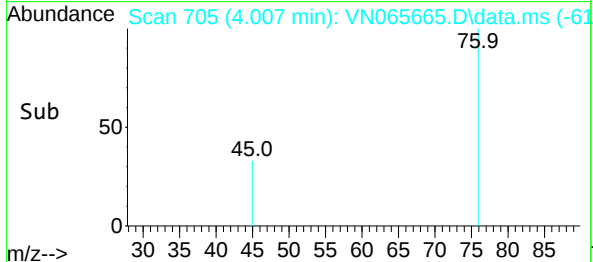
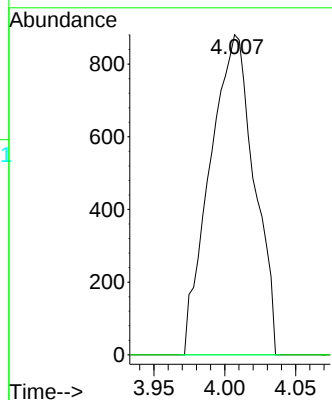
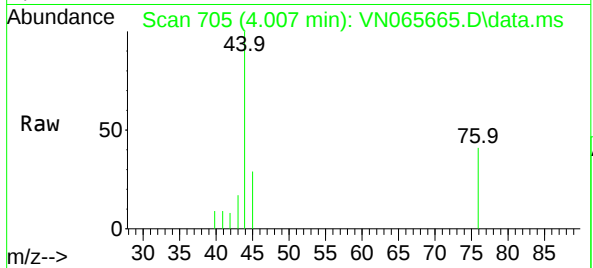




#17  
Carbon Disulfide  
Concen: 0.24 ug/l  
RT: 4.007 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

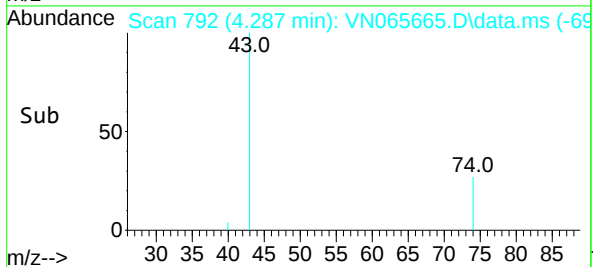
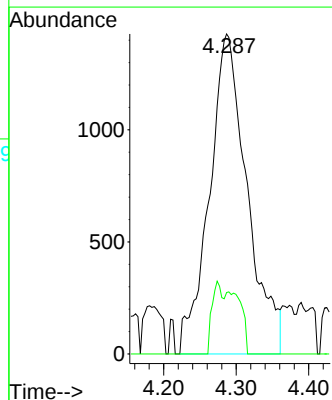
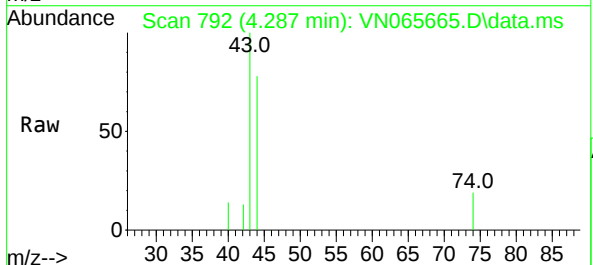
Instrument :  
MSVOA\_N  
ClientSampled :  
OWS-1

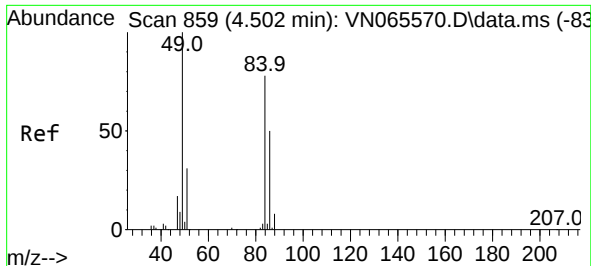
Tgt Ion: 76 Resp: 1915  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.8 11.6#



#18  
Methyl Acetate  
Concen: 1.72 ug/l  
RT: 4.287 min Scan# 792  
Delta R.T. 0.004 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

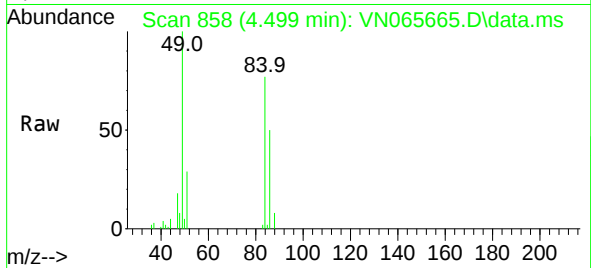
Tgt Ion: 43 Resp: 5168  
Ion Ratio Lower Upper  
43 100  
74 6.8 19.5 29.3#



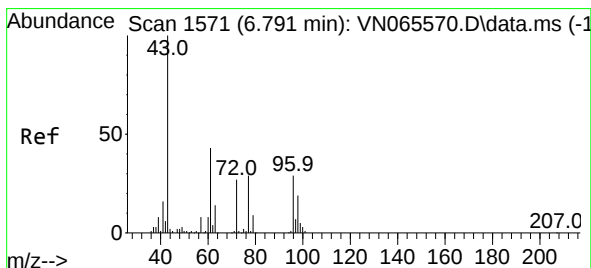
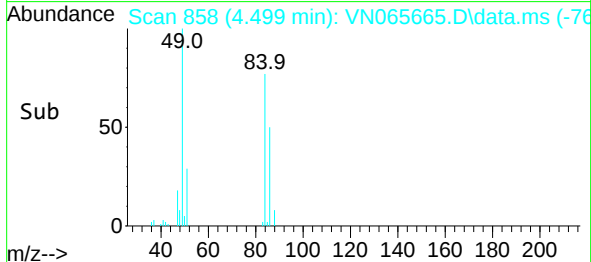
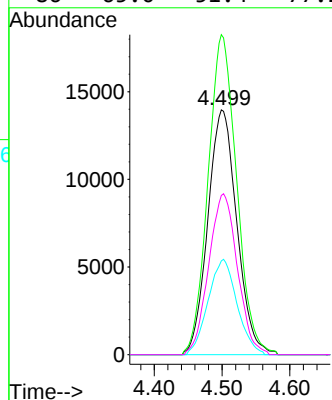


#20  
Methylene Chloride  
Concen: 14.01 ug/l  
RT: 4.499 min Scan# 858  
Delta R.T. -0.003 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
OWS-1

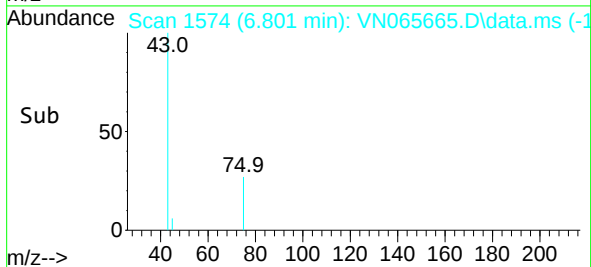
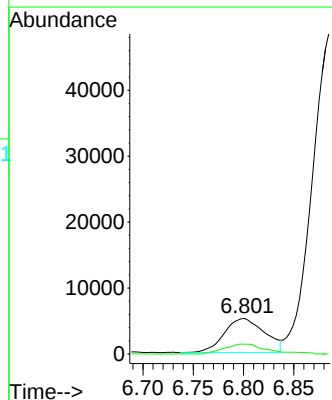
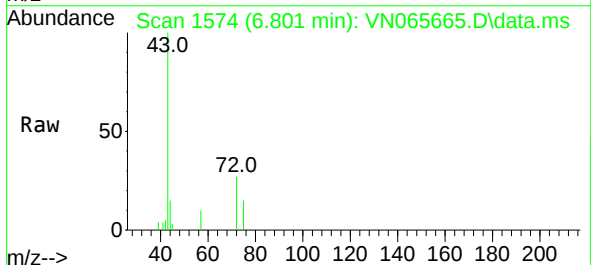


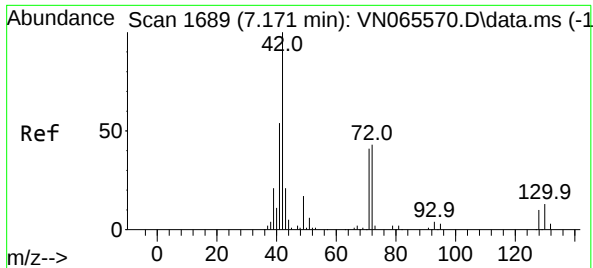
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 41598 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 130.7 | 94.6  | 141.8 |
| 51       | 38.3  | 29.9  | 44.9  |
| 86       | 65.0  | 51.4  | 77.2  |



#25  
2-Butanone  
Concen: 8.67 ug/l  
RT: 6.801 min Scan# 1574  
Delta R.T. 0.010 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 14579 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 28.3  | 23.1  | 34.7  |





#29

Tetrahydrofuran

Concen: 0.31 ug/l

RT: 7.171 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN065665.D

Acq: 28 Jan 2021 21:34

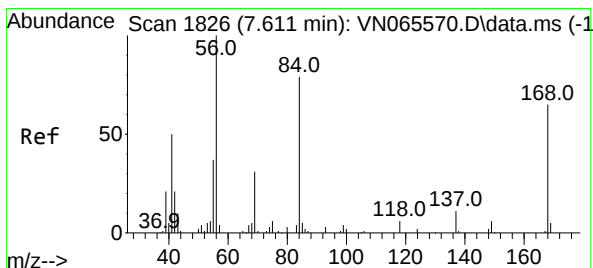
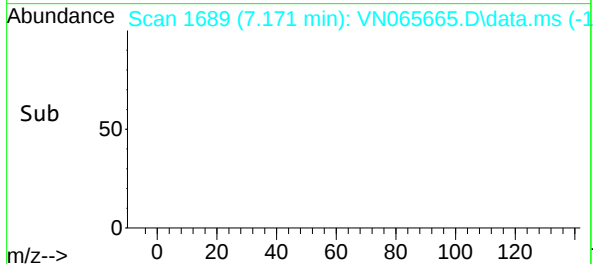
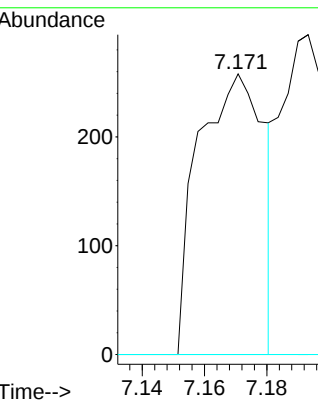
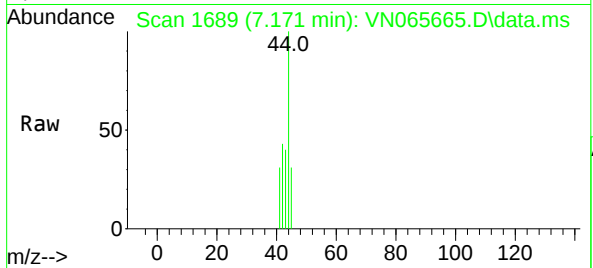
Tgt Ion: 42 Resp: 377

Ion Ratio Lower Upper

42 100

72 0.0 36.6 55.0#

71 0.0 34.3 51.5#



#31

Cyclohexane

Concen: 0.82 ug/l

RT: 7.618 min Scan# 1828

Delta R.T. 0.007 min

Lab File: VN065665.D

Acq: 28 Jan 2021 21:34

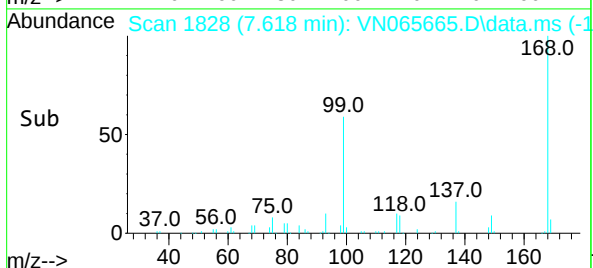
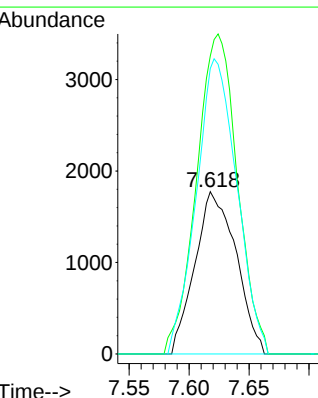
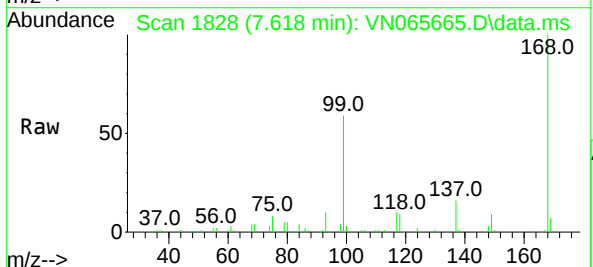
Tgt Ion: 56 Resp: 4235

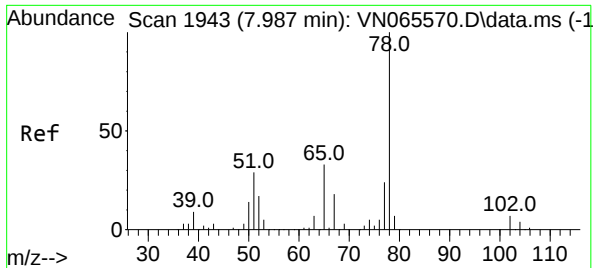
Ion Ratio Lower Upper

56 100

69 183.6 26.6 39.8#

84 176.0 70.4 105.6#

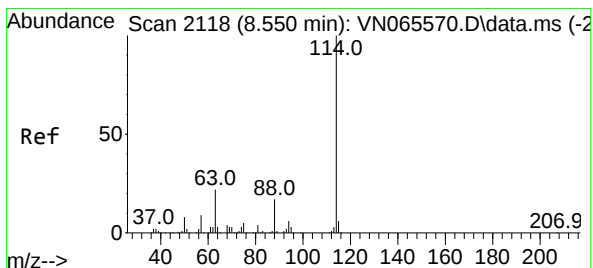
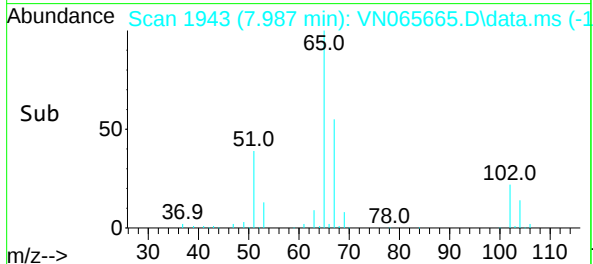
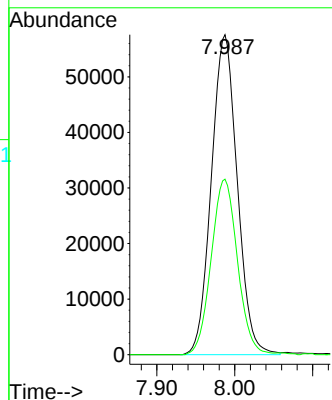
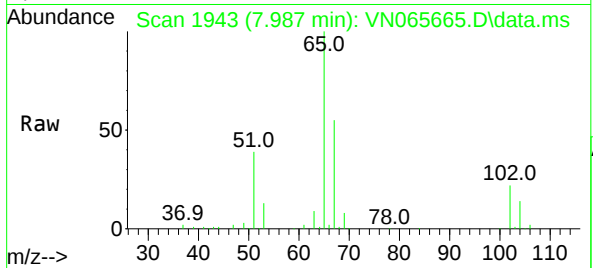




#33  
1,2-Dichloroethane-d4  
Concen: 48.30 ug/l  
RT: 7.987 min Scan# 1943  
Delta R.T. 0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

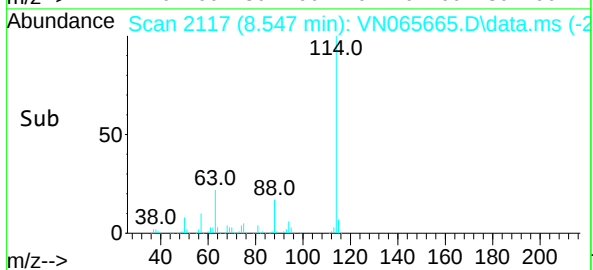
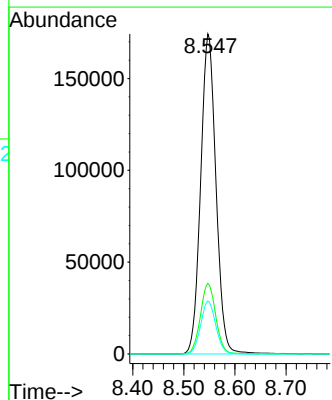
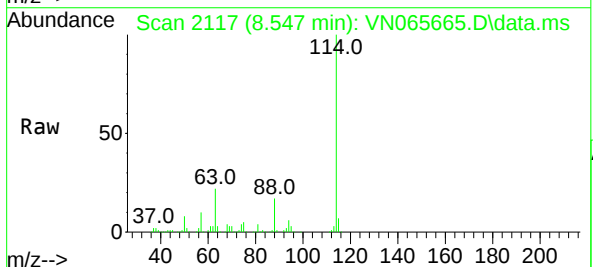
Instrument :  
MSVOA\_N  
ClientSampled :  
OWS-1

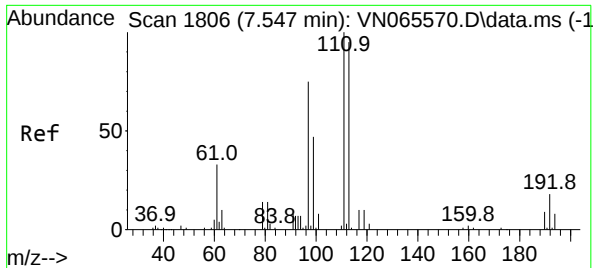
Tgt Ion: 65 Resp: 133004  
Ion Ratio Lower Upper  
65 100  
67 55.5 0.0 107.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.547 min Scan# 2117  
Delta R.T. -0.003 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 114 Resp: 362496  
Ion Ratio Lower Upper  
114 100  
63 22.0 0.0 38.6  
88 16.5 0.0 30.6

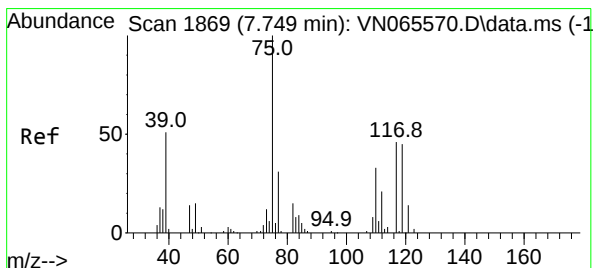
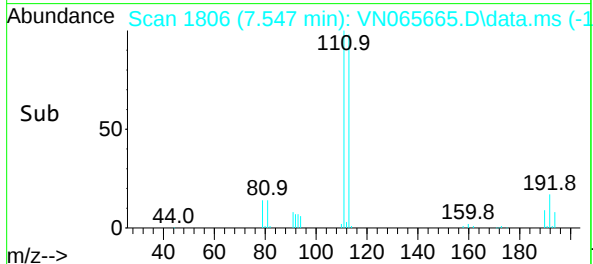
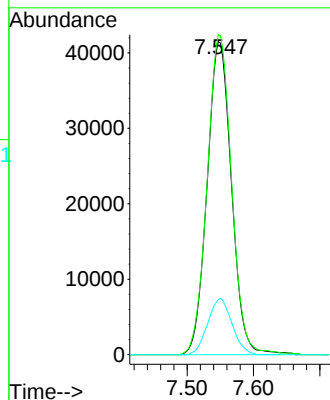
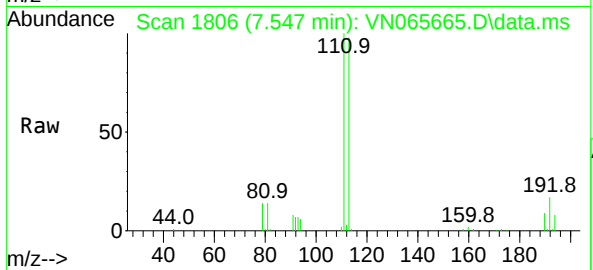




#35  
Dibromofluoromethane  
Concen: 49.22 ug/l  
RT: 7.547 min Scan# 1806  
Delta R.T. -0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

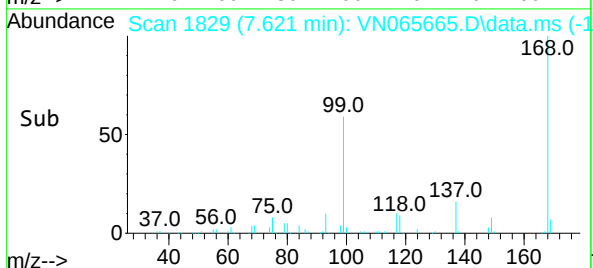
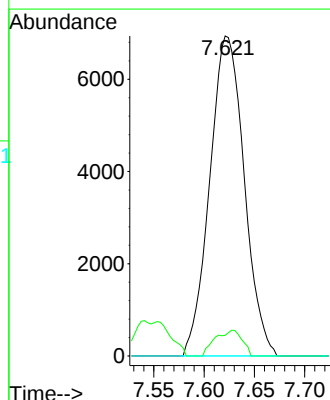
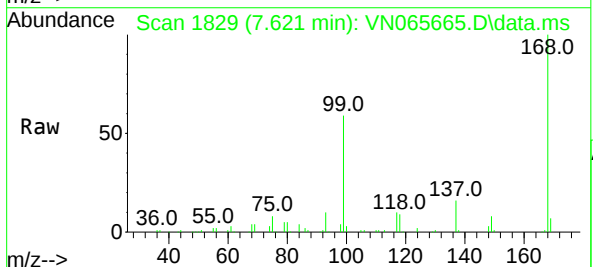
Instrument :  
MSVOA\_N  
ClientSampleId :  
OWS-1

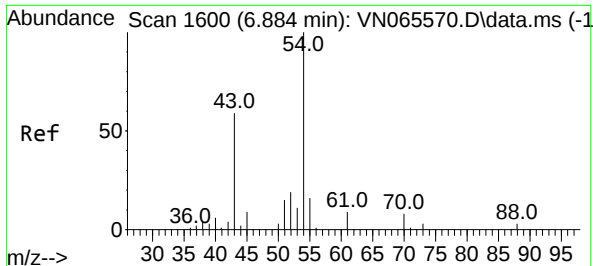
Tgt Ion:113 Resp: 105720  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.2 123.2  
192 17.9 15.4 23.0



#36  
1,1-Dichloropropene  
Concen: 4.54 ug/l  
RT: 7.621 min Scan# 1829  
Delta R.T. -0.128 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 75 Resp: 16546  
Ion Ratio Lower Upper  
75 100  
110 6.3 18.2 54.6#  
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 38.92 ug/l

RT: 6.888 min Scan# 1601

Delta R.T. 0.004 min

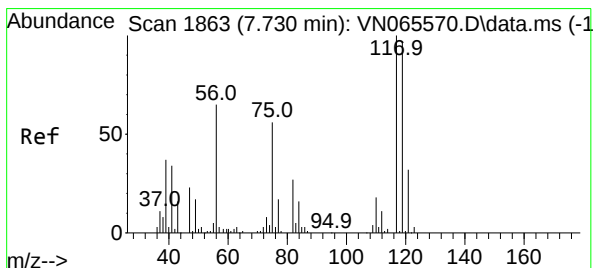
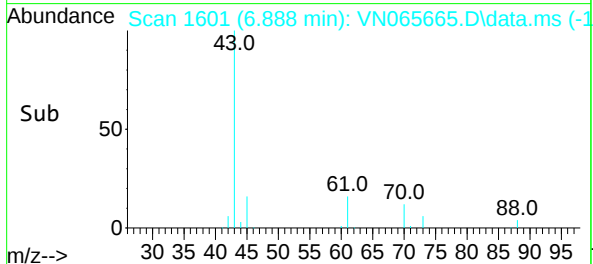
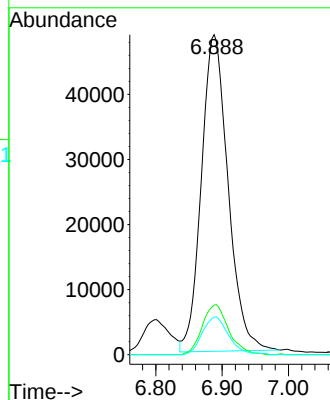
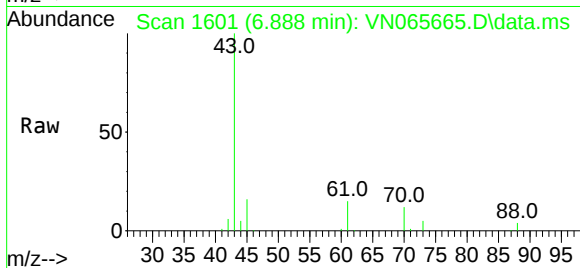
Lab File: VN065665.D

Acq: 28 Jan 2021 21:34

Instrument :  
MSVOA\_N  
ClientSampled :  
OWS-1

Tgt Ion: 43 Resp: 136201

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 15.6  | 11.6  | 17.4  |
| 70  | 11.8  | 8.6   | 13.0  |



#38

Carbon Tetrachloride

Concen: 6.60 ug/l

RT: 7.621 min Scan# 1829

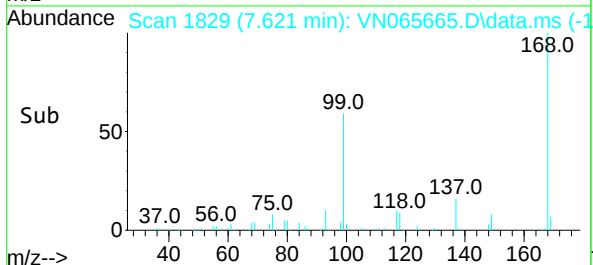
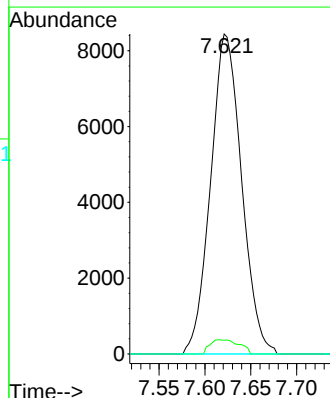
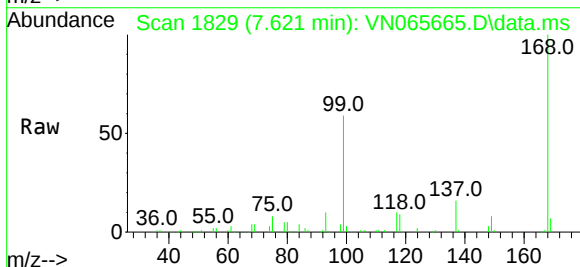
Delta R.T. -0.109 min

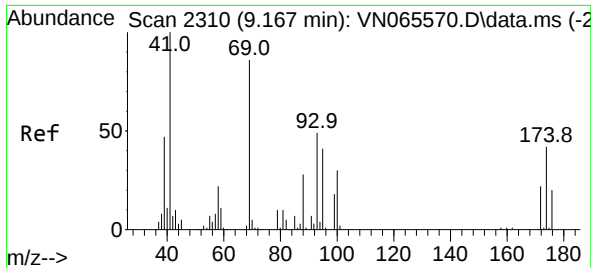
Lab File: VN065665.D

Acq: 28 Jan 2021 21:34

Tgt Ion: 117 Resp: 19826

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 4.3   | 76.0  | 114.0# |
| 121 | 0.0   | 24.5  | 36.7#  |

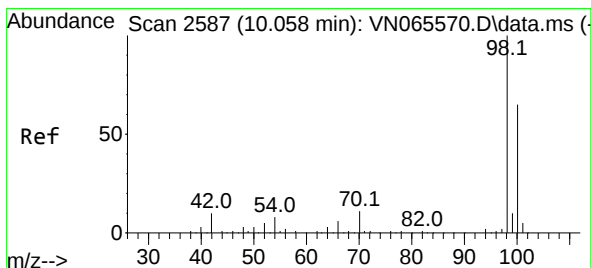
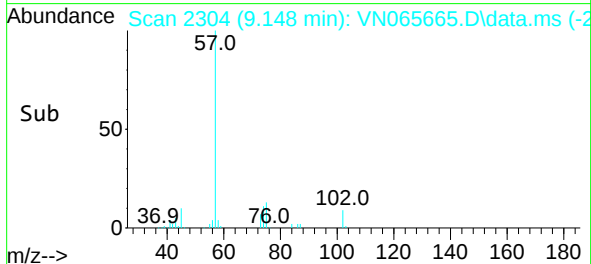
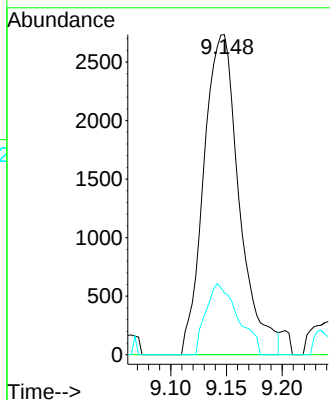
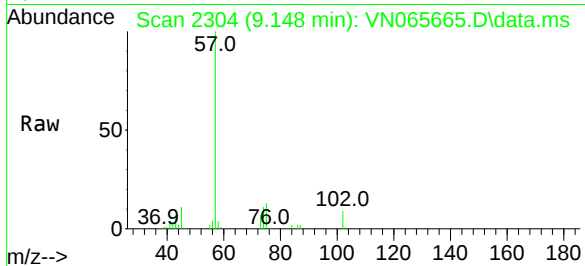




#48  
Methyl methacrylate  
Concen: 2.06 ug/l  
RT: 9.148 min Scan# 2304  
Delta R.T. -0.019 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

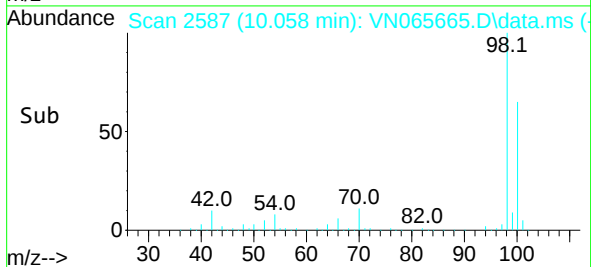
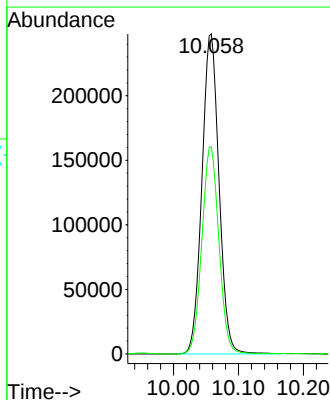
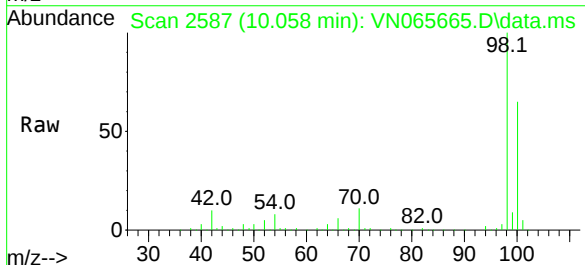
Instrument :  
MSVOA\_N  
ClientSampleId :  
OWS-1

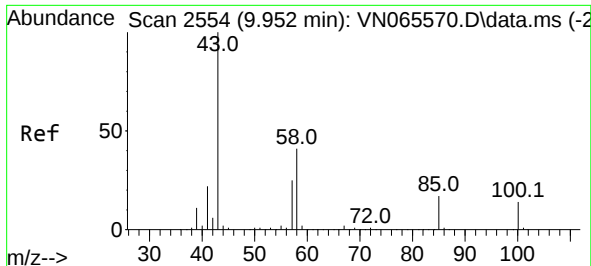
Tgt Ion: 41 Resp: 6054  
Ion Ratio Lower Upper  
41 100  
69 0.0 75.9 113.9#  
39 20.0 46.6 69.8#



#50  
Toluene-d8  
Concen: 53.82 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. 0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 98 Resp: 454434  
Ion Ratio Lower Upper  
98 100  
100 64.8 50.5 75.7

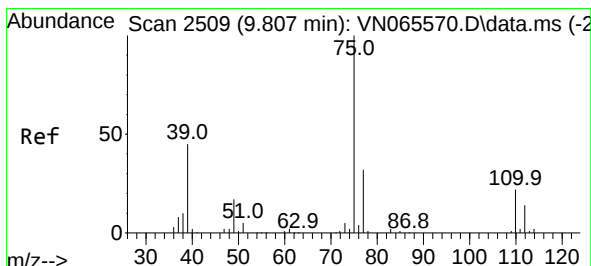
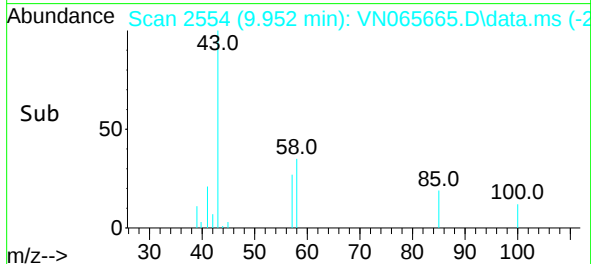
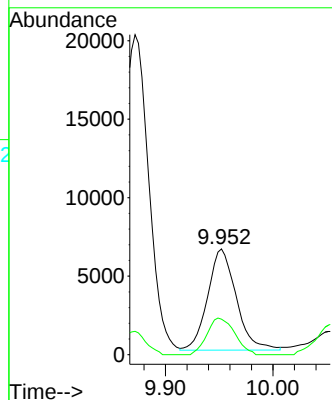
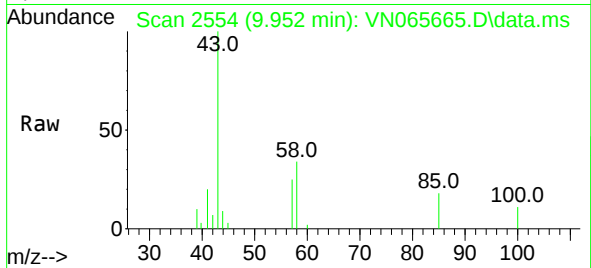




#51  
4-Methyl-2-Pentanone  
Concen: 3.49 ug/l  
RT: 9.952 min Scan# 2554  
Delta R.T. 0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

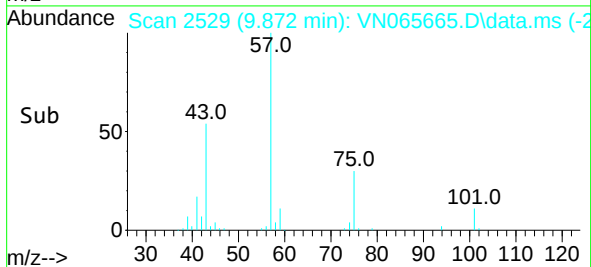
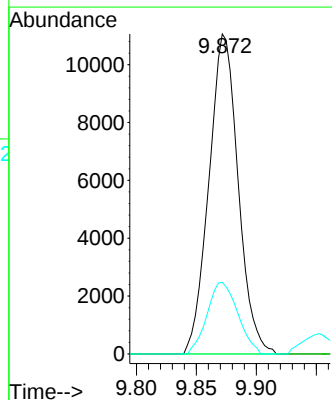
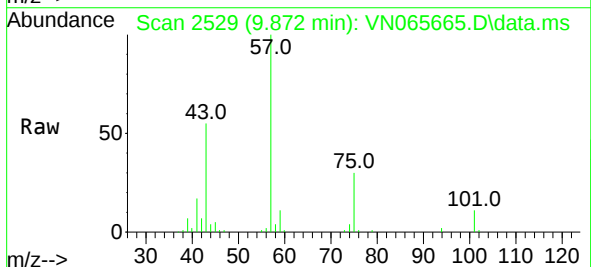
Instrument :  
MSVOA\_N  
ClientSampleId :  
OWS-1

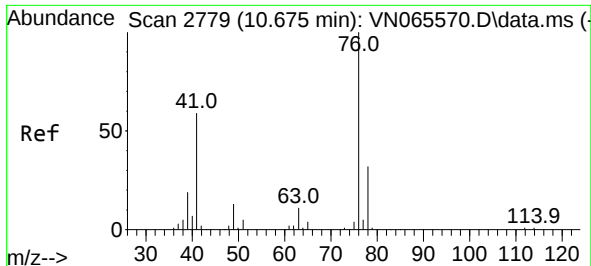
Tgt Ion: 43 Resp: 11927  
Ion Ratio Lower Upper  
43 100  
58 35.0 32.5 48.7



#54  
cis-1,3-Dichloropropene  
Concen: 3.98 ug/l  
RT: 9.872 min Scan# 2529  
Delta R.T. 0.065 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 75 Resp: 18751  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.9 37.3#  
39 22.4 36.2 54.4#

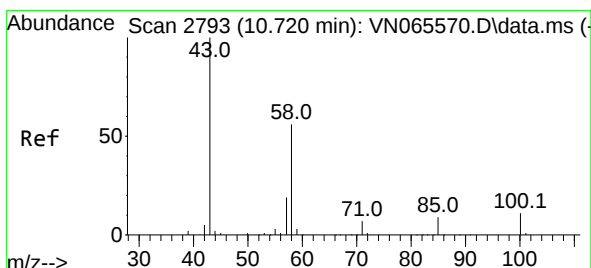
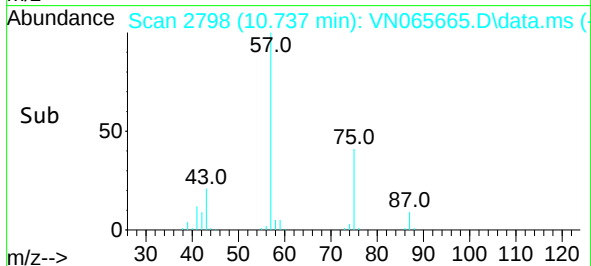
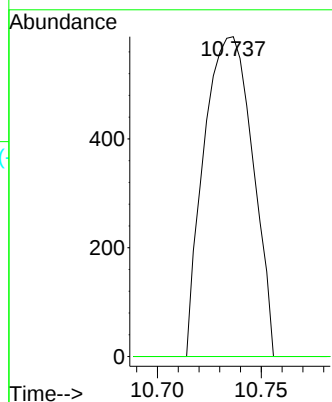
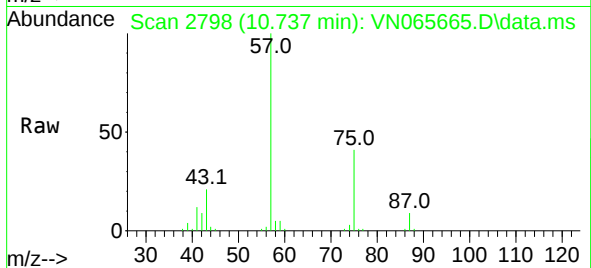




#57  
1,3-Dichloropropane  
Concen: 0.22 ug/l  
RT: 10.737 min Scan# 2798  
Delta R.T. 0.062 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

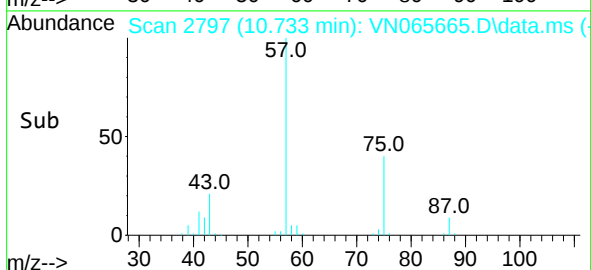
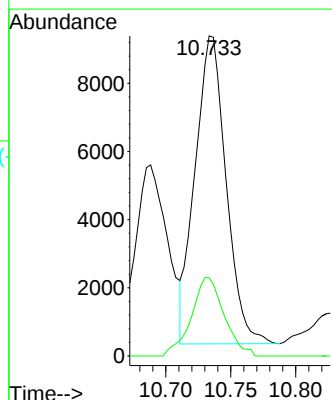
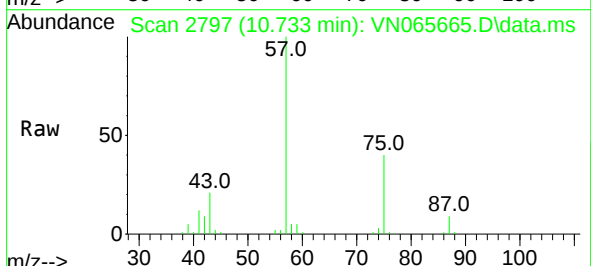
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MSVOA\_N  
ClientSampled :  
OWS-1

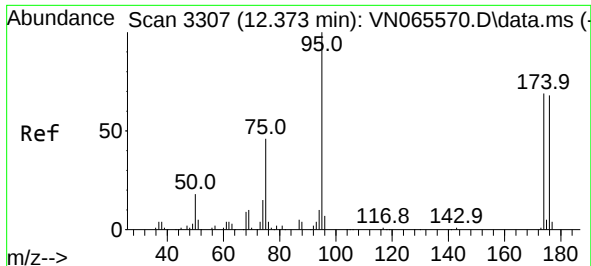
Tgt Ion: 76 Resp: 955  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.7 38.5#



#59  
2-Hexanone  
Concen: 6.33 ug/l  
RT: 10.733 min Scan# 2797  
Delta R.T. 0.013 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 43 Resp: 15025  
Ion Ratio Lower Upper  
43 100  
58 26.9 28.1 84.3#

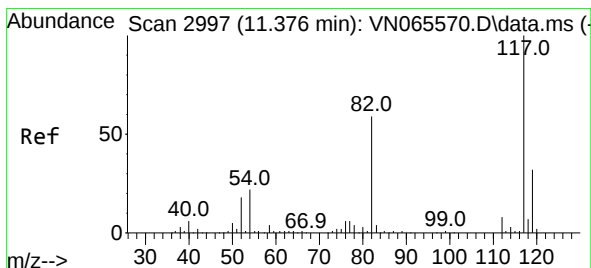
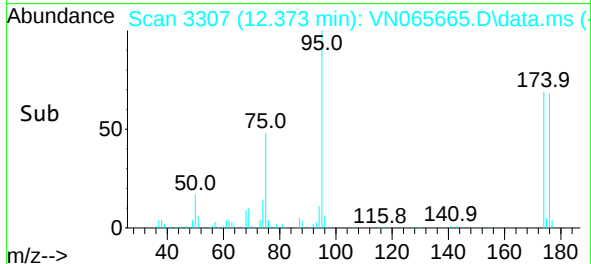
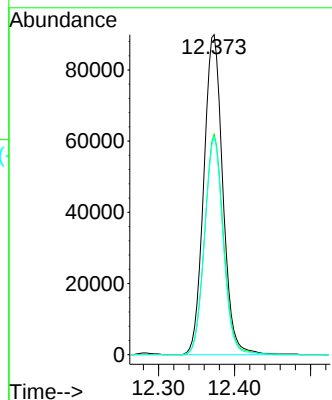
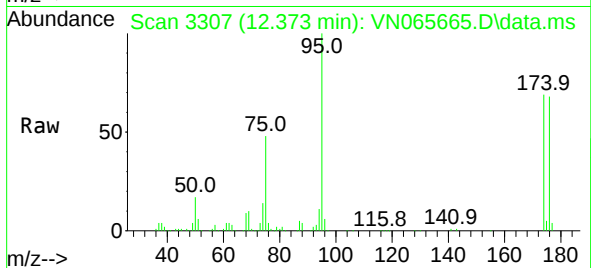




#62  
4-Bromofluorobenzene  
Concen: 51.37 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

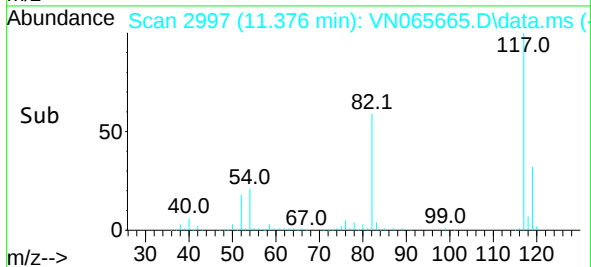
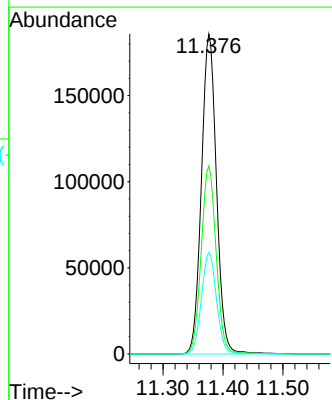
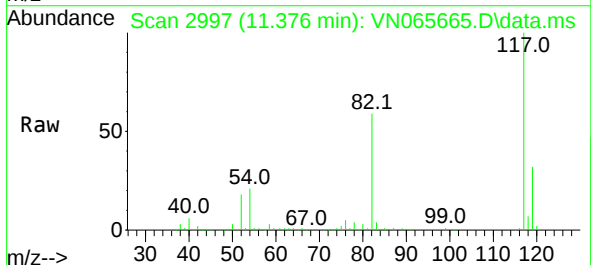
Instrument :  
MSVOA\_N  
ClientSampleId :  
OWS-1

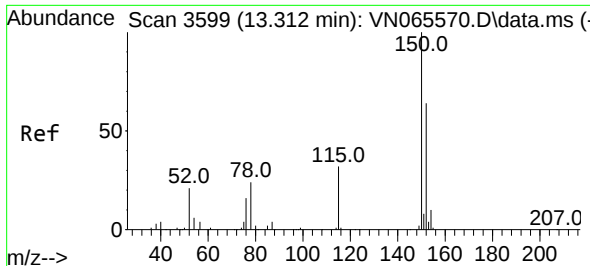
Tgt Ion: 95 Resp: 156206  
Ion Ratio Lower Upper  
95 100  
174 68.4 0.0 169.0  
176 66.2 0.0 162.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.376 min Scan# 2997  
Delta R.T. 0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 117 Resp: 324708  
Ion Ratio Lower Upper  
117 100  
82 58.8 43.7 65.5  
119 31.7 26.1 39.1

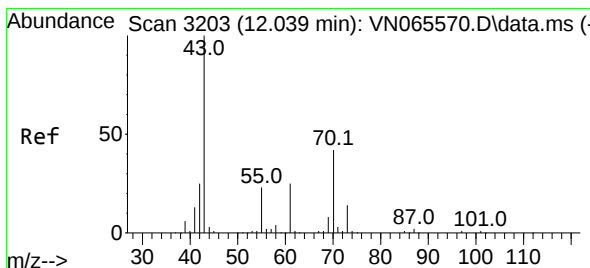
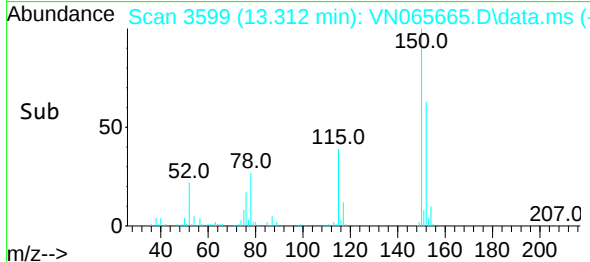
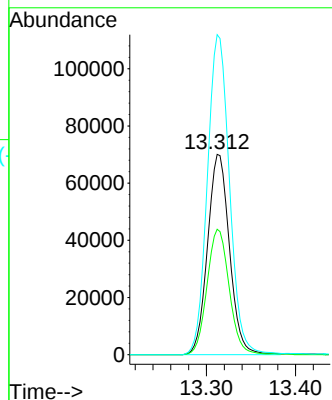
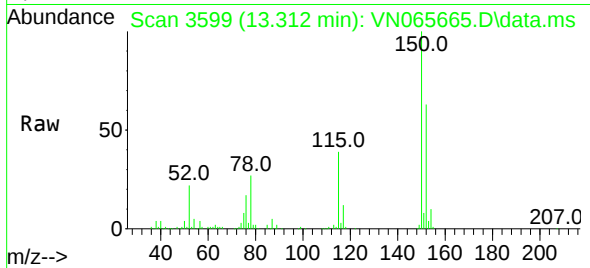




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.312 min Scan# 3599  
Delta R.T. 0.000 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

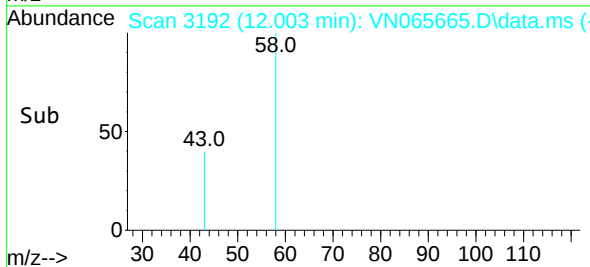
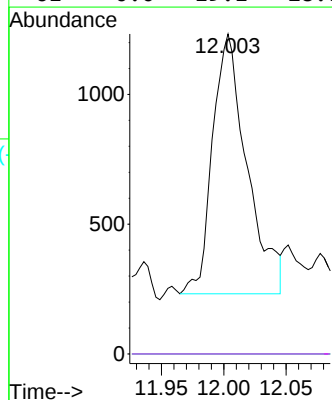
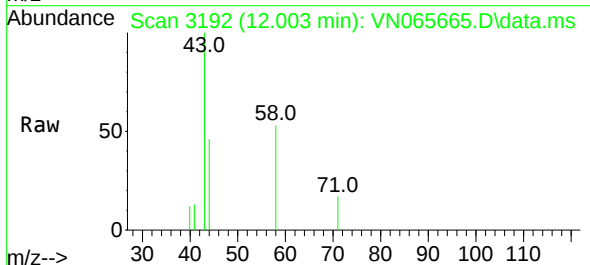
Instrument :  
MSVOA\_N  
ClientSampled :  
OWS-1

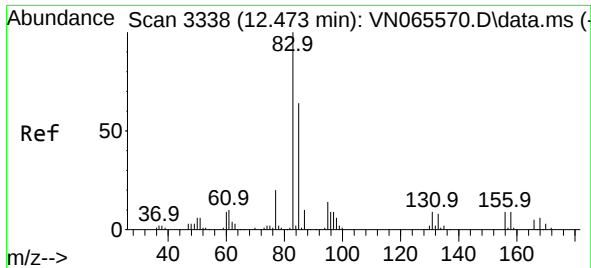
Tgt Ion:152 Resp: 119790  
Ion Ratio Lower Upper  
152 100  
115 62.9 28.5 85.6  
150 161.2 0.0 347.6



#74  
N-ethyl acetate  
Concen: 0.43 ug/l  
RT: 12.003 min Scan# 3192  
Delta R.T. -0.036 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 43 Resp: 1925  
Ion Ratio Lower Upper  
43 100  
70 0.0 34.4 51.6#  
55 0.0 20.7 31.1#  
61 0.0 19.1 28.7#

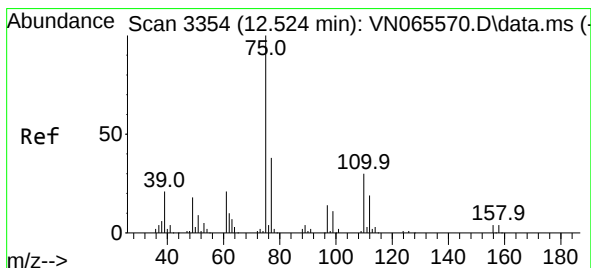
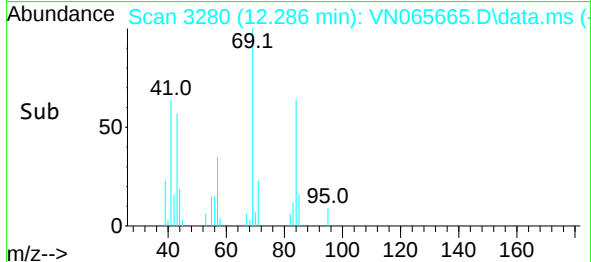
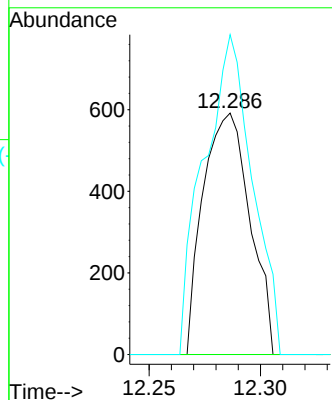
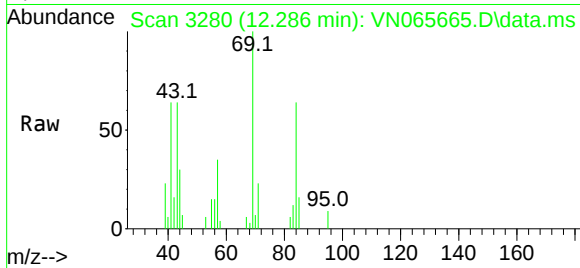




#75  
1,1,2,2-Tetrachloroethane  
Concen: 0.28 ug/l  
RT: 12.286 min Scan# 3280  
Delta R.T. -0.187 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

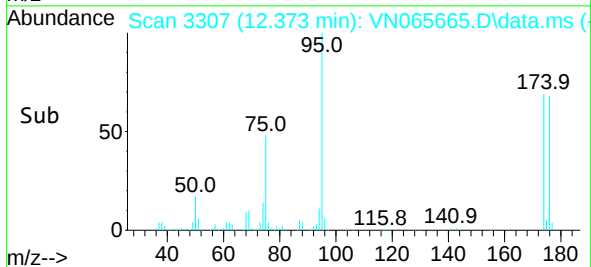
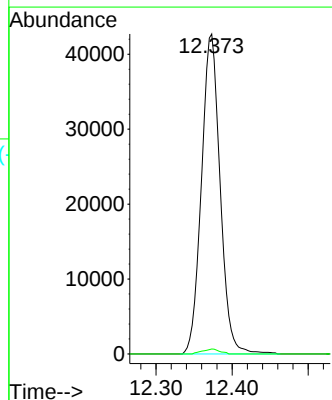
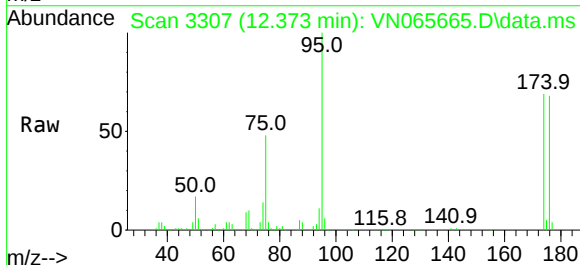
Instrument :  
MSVOA\_N  
ClientSampled :  
OWS-1

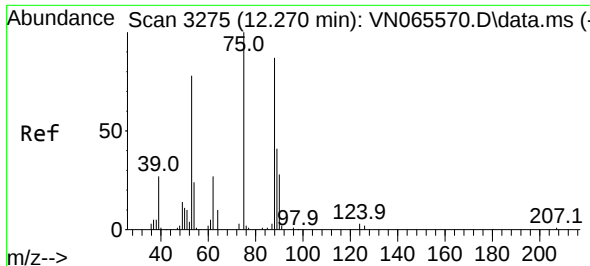
Tgt Ion: 83 Resp: 865  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.3 15.8#  
85 137.8 32.0 96.0#



#76  
1,2,3-Trichloropropane  
Concen: 23.27 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. -0.151 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 75 Resp: 72903  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#

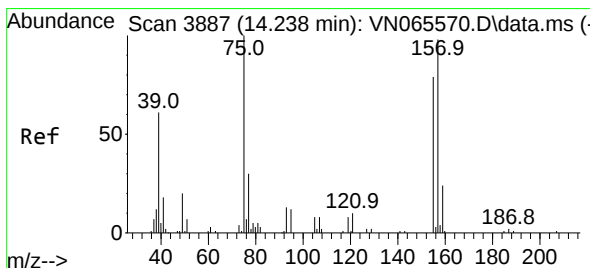
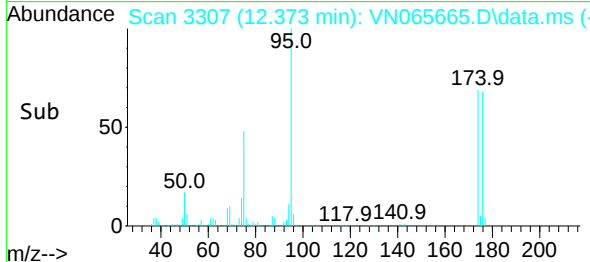
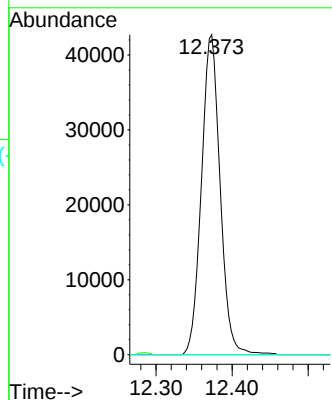
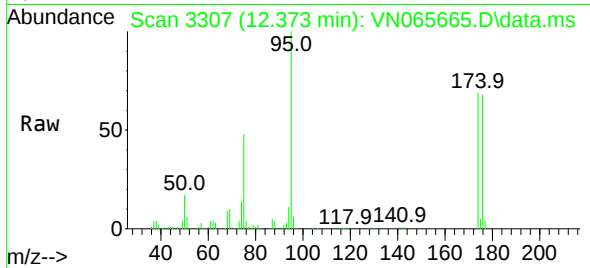




#81  
trans-1,4-Dichloro-2-butene  
Concen: 59.61 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.103 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
OWS-1

Tgt Ion: 75 Resp: 72903  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.6 111.8#  
89 0.0 35.8 53.8#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.35 ug/l  
RT: 14.428 min Scan# 3946  
Delta R.T. 0.190 min  
Lab File: VN065665.D  
Acq: 28 Jan 2021 21:34

Tgt Ion: 75 Resp: 218  
Ion Ratio Lower Upper  
75 100  
155 27.1 44.1 132.4#  
157 0.0 56.0 168.2#

