

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021221\  
 Data File : VN065833.D  
 Acq On : 12 Feb 2021 13:01  
 Operator : JC/MD  
 Sample : VN0212WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 13 01:00:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N020321W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Feb 03 14:50:04 2021  
 Response via : Initial Calibration

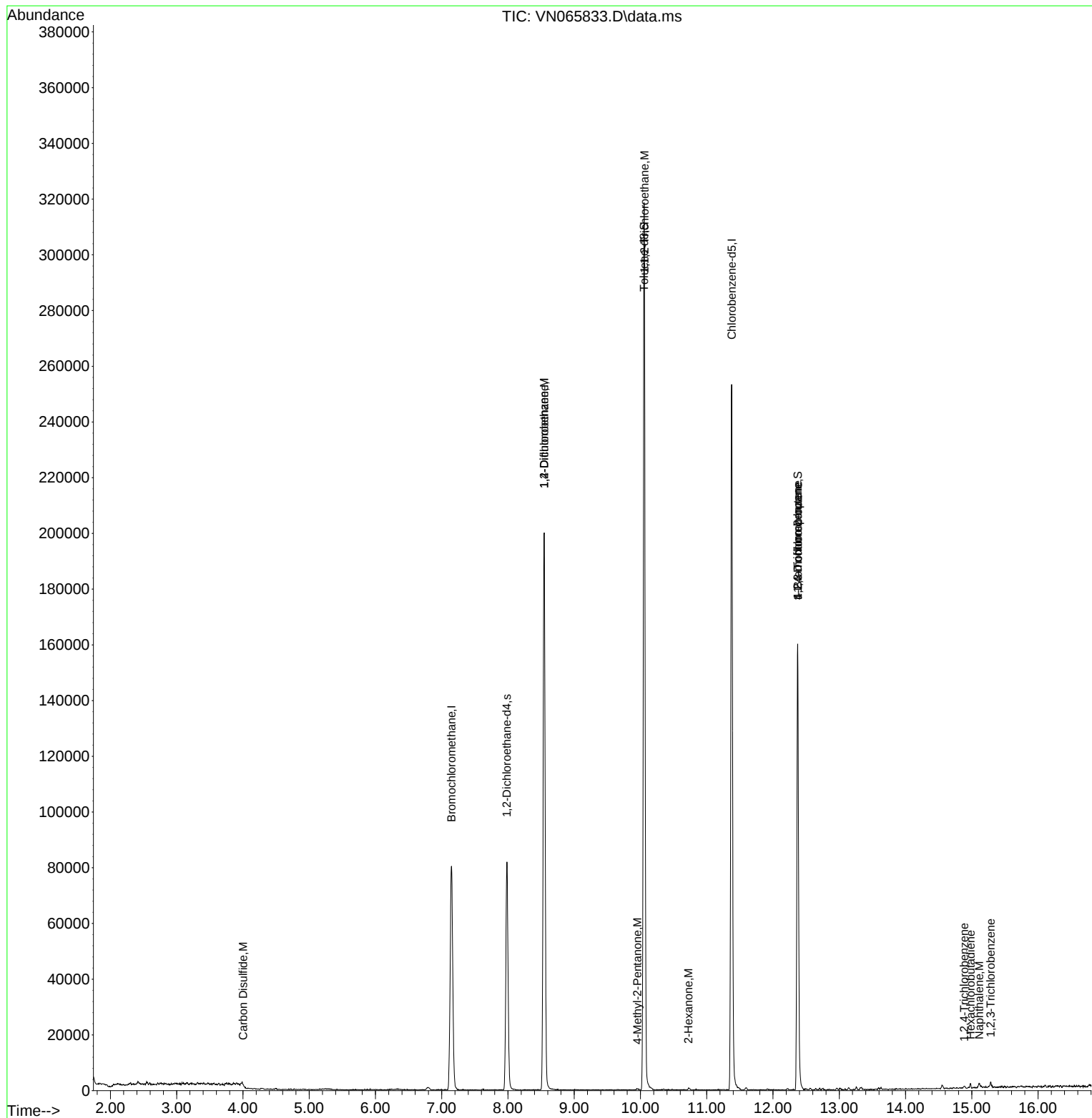
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.148  | 128   | 34186    | 30.00    | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.547  | 114   | 191529   | 30.00    | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.376 | 117   | 159810   | 30.00    | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 7.984  | 65    | 67780    | 28.58    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 95.27%   |
| 60) 4-Bromofluorobenzene    | 12.373 | 95    | 68317    | 26.28    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 87.60%   |
| 63) Toluene-d8              | 10.055 | 98    | 236448   | 30.77    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 102.57%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          |        | Qvalue   |
| 16) Carbon Disulfide        | 4.000  | 76    | 2088     | 0.33     | ug/l # | 73       |
| 36) 1,2-Dichloroethane      | 8.547  | 62    | 5421     | 1.89     | ug/l # | 74       |
| 50) 1,1,2-Trichloroethane   | 10.061 | 97    | 8011     | 3.72     | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 9.952  | 43    | 605      | 0.23     | ug/l # | 42       |
| 59) 2-Hexanone              | 10.723 | 43    | 419      | 0.22     | ug/l # | 66       |
| 72) 1,2,3-Trichloropropane  | 12.373 | 75    | 30577    | 11.42    | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.373 | 75    | 30577    | 29.25    | ug/l # | 14       |
| 89) 1,2,4-Trichlorobenzene  | 14.884 | 180   | 539      | 0.28     | ug/l # | 74       |
| 90) Hexachlorobutadiene     | 14.984 | 225   | 645      | 0.74     | ug/l   | 86       |
| 91) Naphthalene             | 15.112 | 128   | 2421     | 0.40     | ug/l # | 83       |
| 92) 1,2,3-Trichlorobenzene  | 15.286 | 180   | 978      | 0.51     | ug/l   | 89       |
| -----                       |        |       |          |          |        |          |

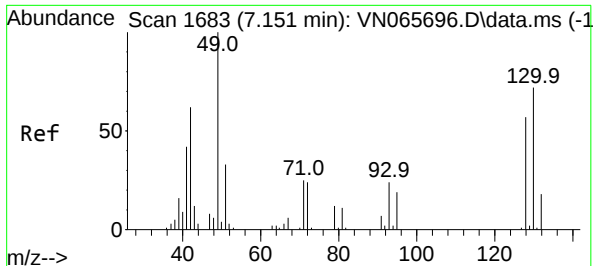
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VN0212WBL01  
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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Feb 13 01:00:37 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N020321W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Feb 03 14:50:04 2021  
Response via : Initial Calibration

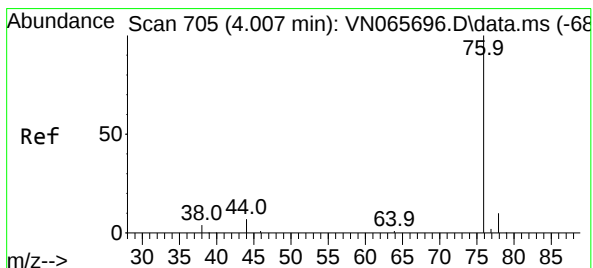
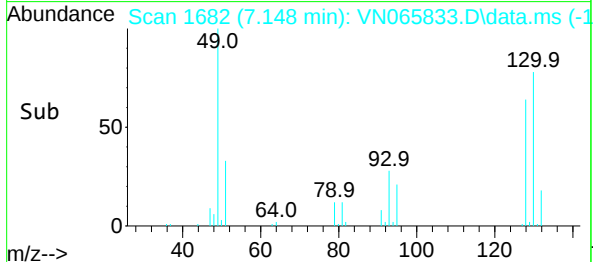
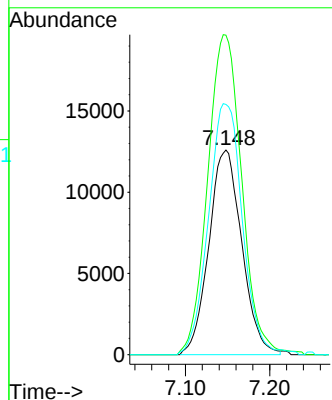
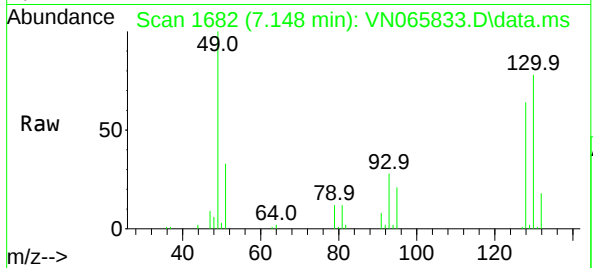




#1  
Bromochloromethane  
Concen: 30.00 ug/l  
RT: 7.148 min Scan# 1682  
Delta R.T. -0.003 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

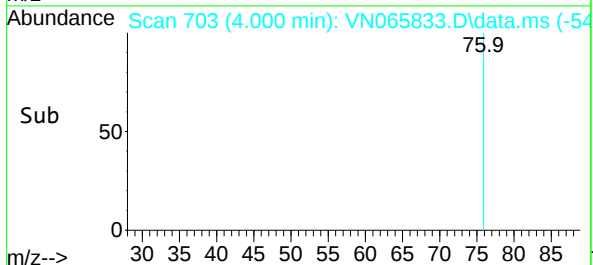
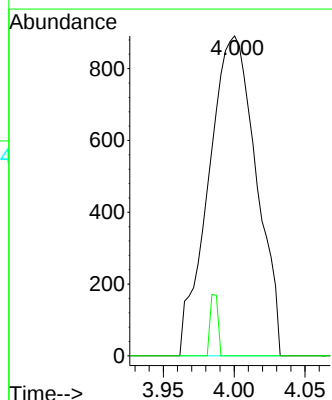
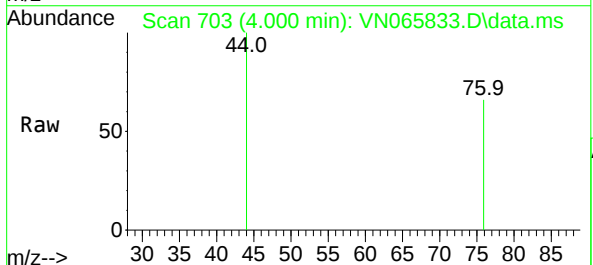
Instrument :  
MSVOA\_N  
ClientSampleId :

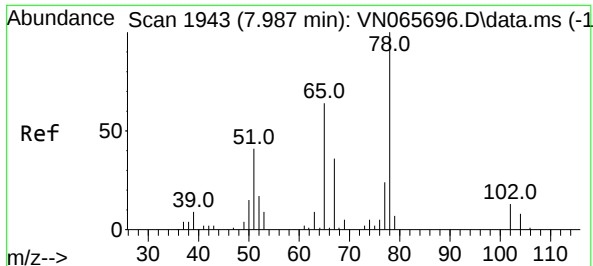
Tgt Ion:128 Resp: 34186  
Ion Ratio Lower Upper  
128 100  
49 161.7 0.0 355.0  
130 125.8 0.0 325.5



#16  
Carbon Disulfide  
Concen: 0.33 ug/l  
RT: 4.000 min Scan# 703  
Delta R.T. -0.006 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

Tgt Ion: 76 Resp: 2088  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.8 11.8#



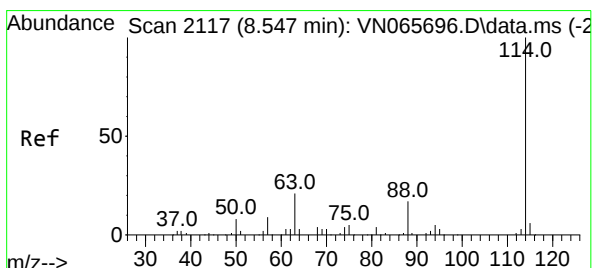
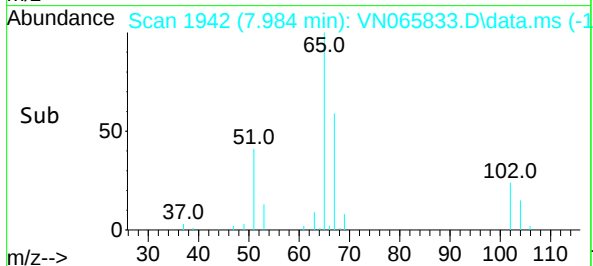
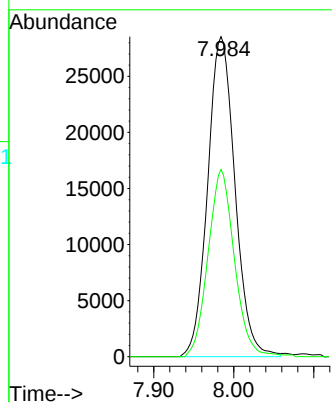
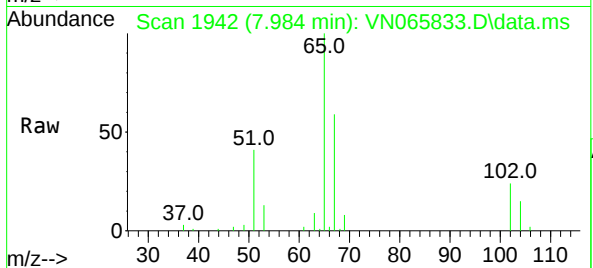


#27

1,2-Dichloroethane-d4  
Concen: 28.58 ug/l  
RT: 7.984 min Scan# 1942  
Delta R.T. -0.003 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

Instrument :  
MSVOA\_N  
ClientSampled :

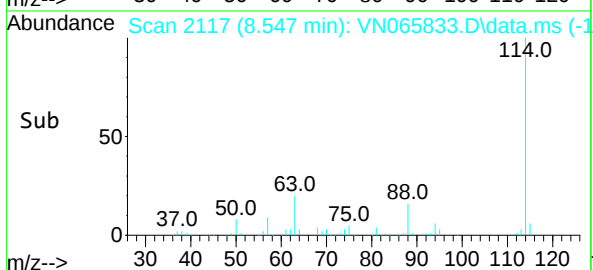
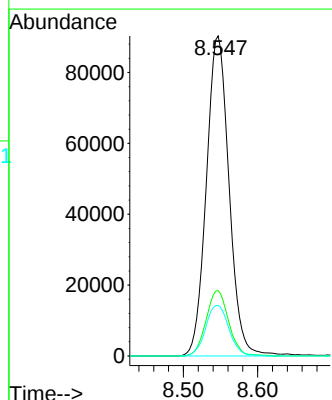
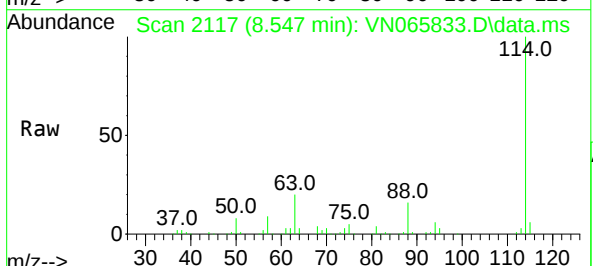
Tgt Ion: 65 Resp: 67780  
Ion Ratio Lower Upper  
65 100  
67 56.2 42.8 64.2

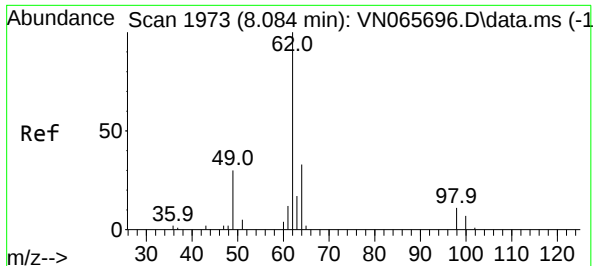


#28

1,4-Difluorobenzene  
Concen: 30.00 ug/l  
RT: 8.547 min Scan# 2117  
Delta R.T. 0.000 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

Tgt Ion: 114 Resp: 191529  
Ion Ratio Lower Upper  
114 100  
63 20.2 14.7 22.1  
88 16.2 11.7 17.5

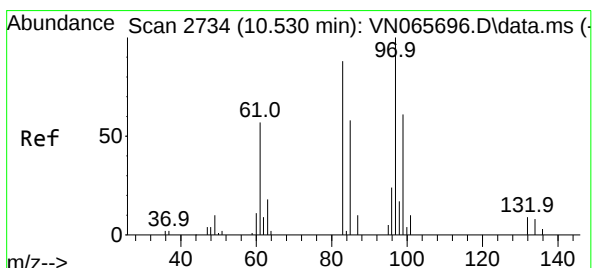
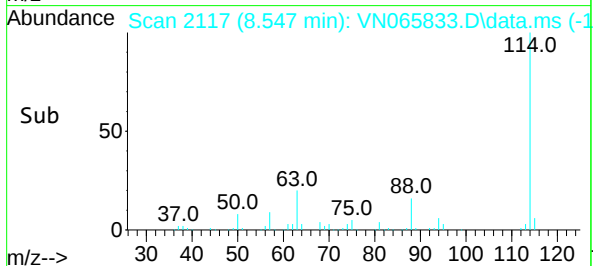
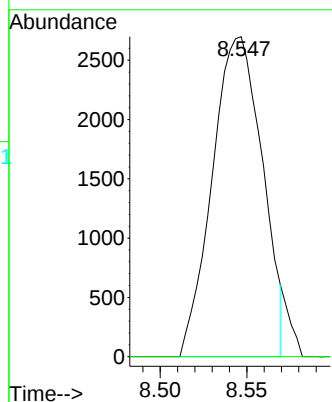
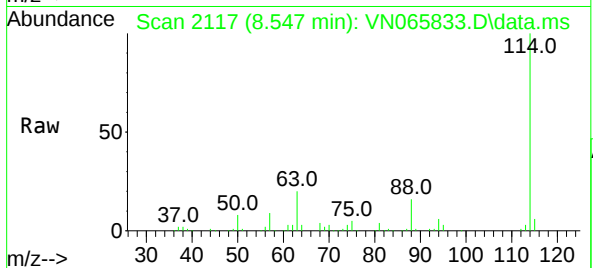




#36  
1,2-Dichloroethane  
Concen: 1.89 ug/l  
RT: 8.547 min Scan# 2117  
Delta R.T. 0.463 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

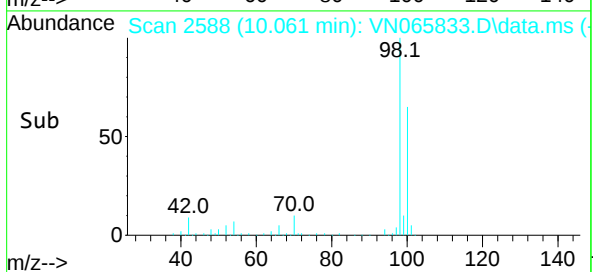
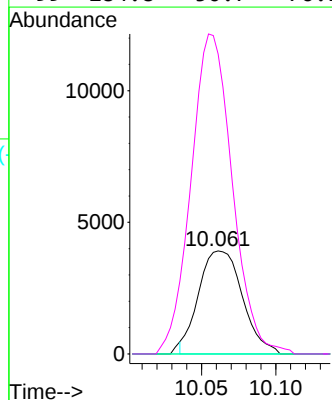
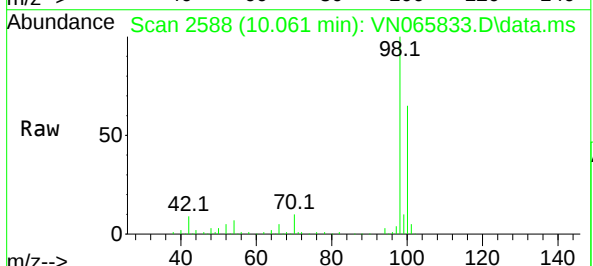
Instrument :  
MSVOA\_N  
ClientSampled :

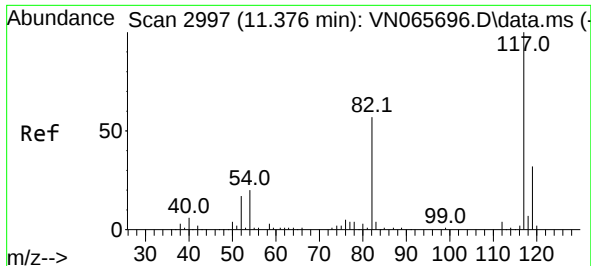
Tgt Ion: 62 Resp: 5421  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.4 11.2#



#50  
1,1,2-Trichloroethane  
Concen: 3.72 ug/l  
RT: 10.061 min Scan# 2588  
Delta R.T. -0.469 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

Tgt Ion: 97 Resp: 8011  
Ion Ratio Lower Upper  
97 100  
83 0.0 68.4 102.6#  
85 0.0 42.8 64.2#  
99 284.8 50.7 76.1#

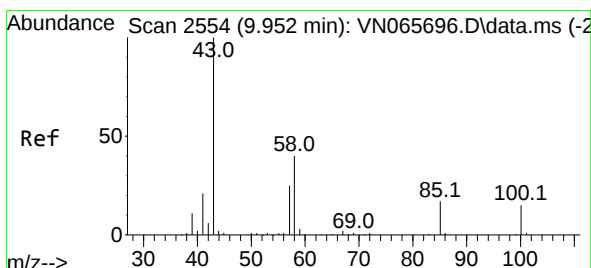
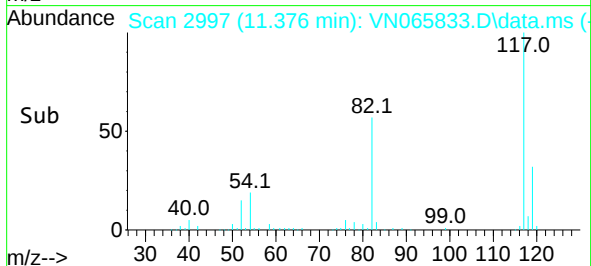
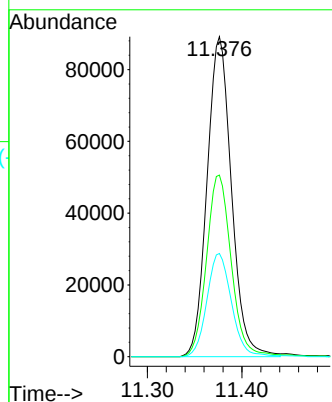
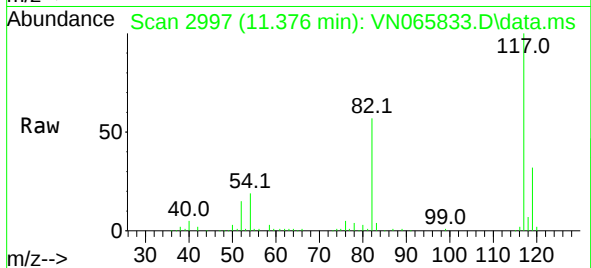




#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 11.376 min Scan# 2997  
Delta R.T. 0.000 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

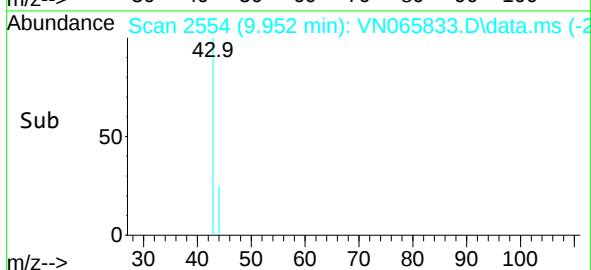
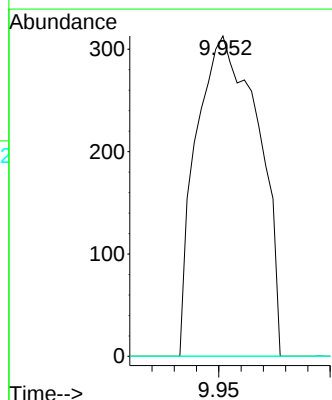
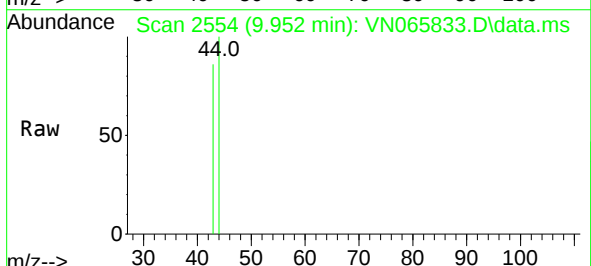
Instrument :  
MSVOA\_N  
ClientSampled :

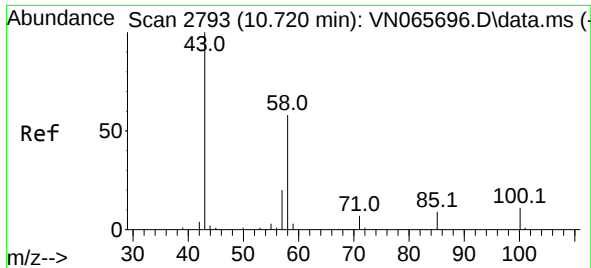
Tgt Ion:117 Resp: 159810  
Ion Ratio Lower Upper  
117 100  
82 57.5 41.3 61.9  
119 32.4 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 0.23 ug/l  
RT: 9.952 min Scan# 2554  
Delta R.T. 0.000 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

Tgt Ion: 43 Resp: 605  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.7 49.1#  
85 0.0 16.0 24.0#

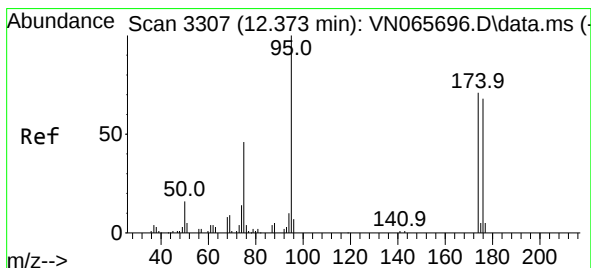
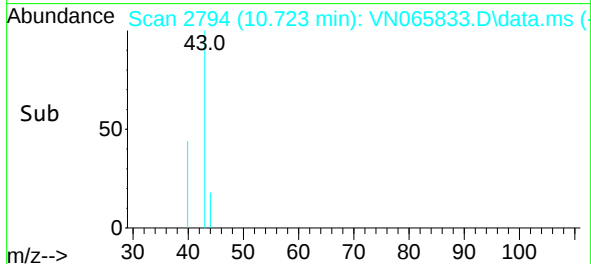
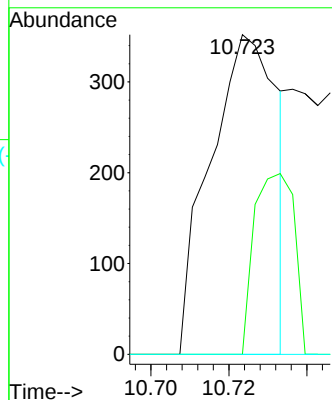
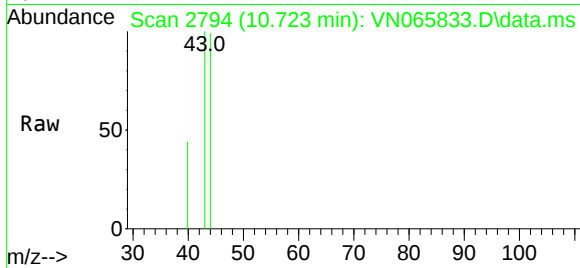




#59  
2-Hexanone  
Concen: 0.22 ug/l  
RT: 10.723 min Scan# 2794  
Delta R.T. 0.003 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

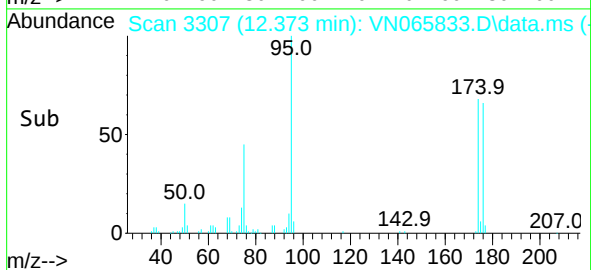
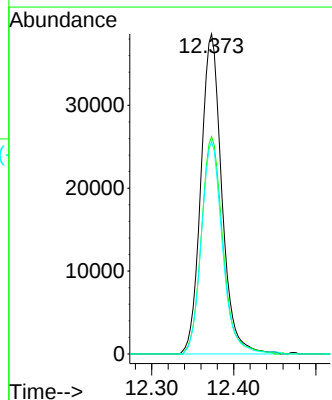
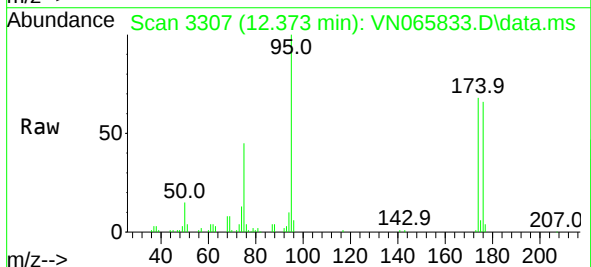
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MSVOA\_N  
ClientSampled :

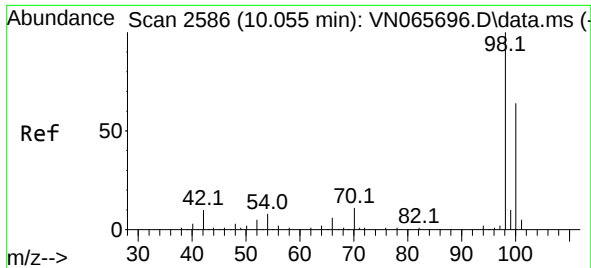
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|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 419         |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 58          | 33.7  | 45.4 68.0#  |
| 57          | 0.0   | 15.8 23.8#  |



#60  
4-Bromofluorobenzene  
Concen: 26.28 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.000 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 95 | Resp: | 68317       |
| Ion         | Ratio | Lower Upper |
| 95          | 100   |             |
| 174         | 69.8  | 77.0 115.6# |
| 176         | 67.2  | 75.8 113.6# |

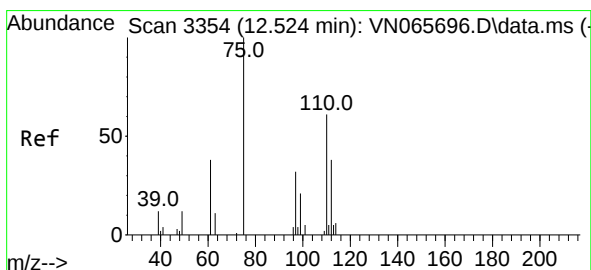
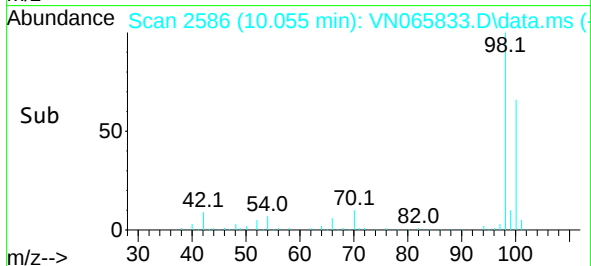
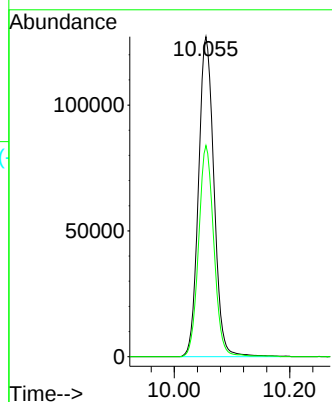
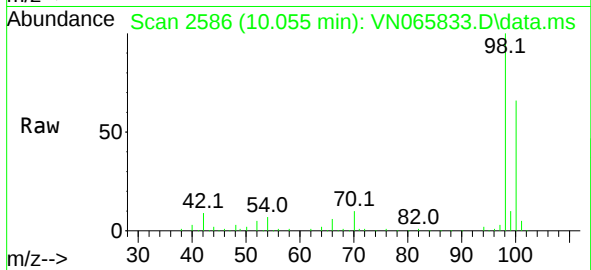




#63  
Toluene-d8  
Concen: 30.77 ug/l  
RT: 10.055 min Scan# 2586  
Delta R.T. 0.000 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

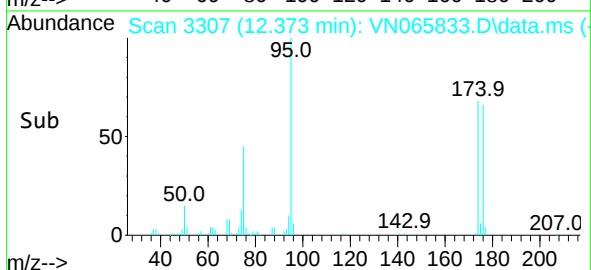
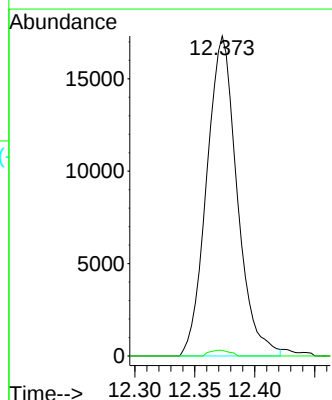
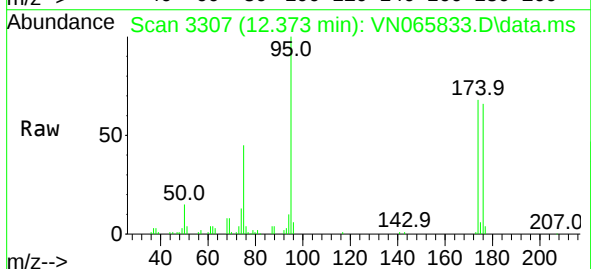
Instrument :  
MSVOA\_N  
ClientSampled :

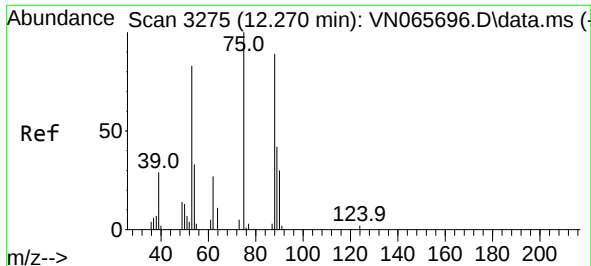
Tgt Ion: 98 Resp: 236448  
Ion Ratio Lower Upper  
98 100  
100 64.8 51.9 77.9



#72  
1,2,3-Trichloropropane  
Concen: 11.42 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. -0.151 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

Tgt Ion: 75 Resp: 30577  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 366.4

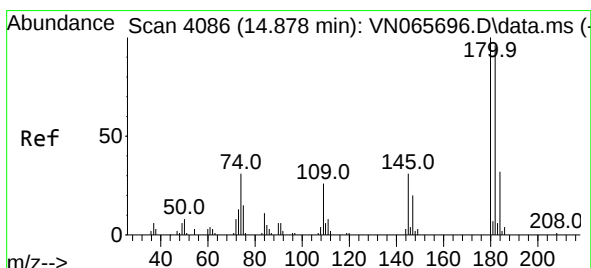
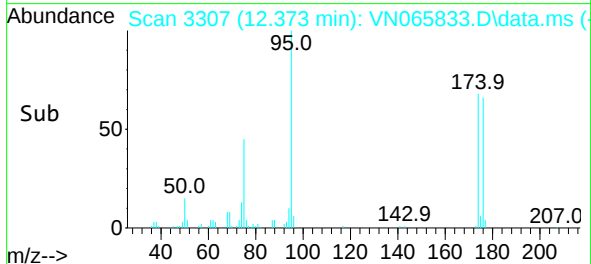
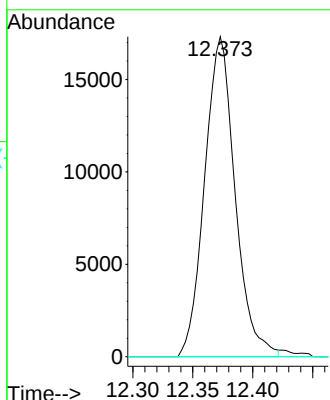
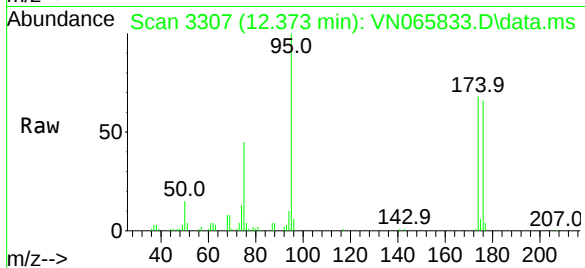




#77  
t-1,4-Dichloro-2-butene  
Concen: 29.25 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.103 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

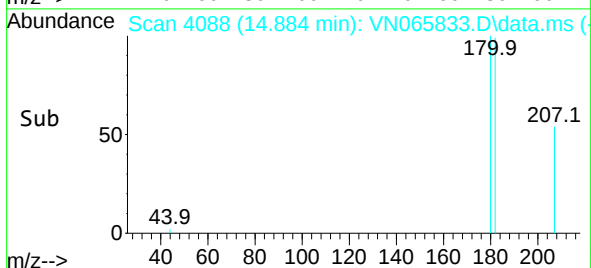
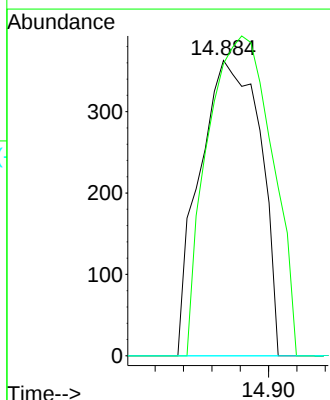
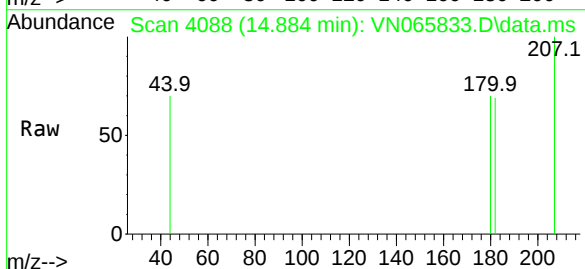
Instrument :  
MSVOA\_N  
ClientSampleId :

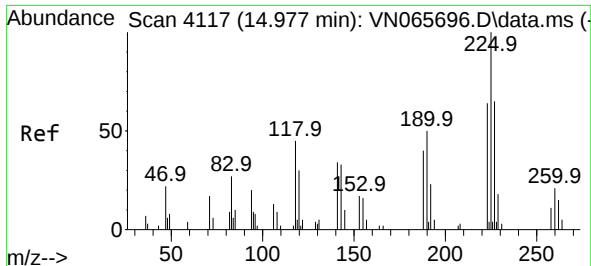
Tgt Ion: 75 Resp: 30577  
Ion Ratio Lower Upper  
75 100  
53 0.0 44.9 134.5#  
89 0.0 21.3 64.0#



#89  
1,2,4-Trichlorobenzene  
Concen: 0.28 ug/l  
RT: 14.884 min Scan# 4088  
Delta R.T. 0.006 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

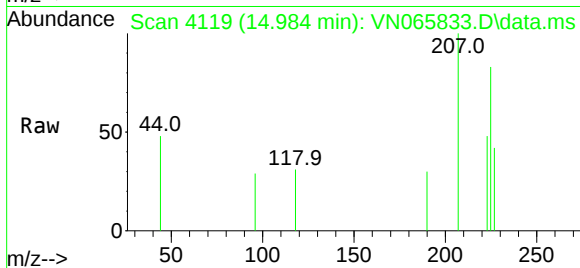
Tgt Ion: 180 Resp: 539  
Ion Ratio Lower Upper  
180 100  
182 115.0 78.5 117.7  
145 0.0 23.8 35.6#



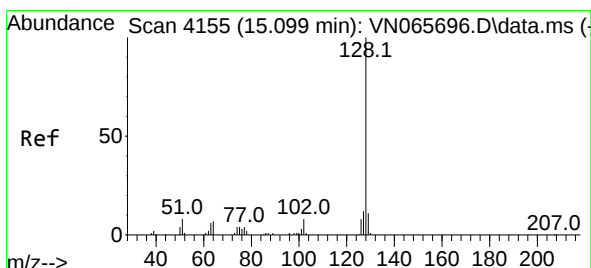
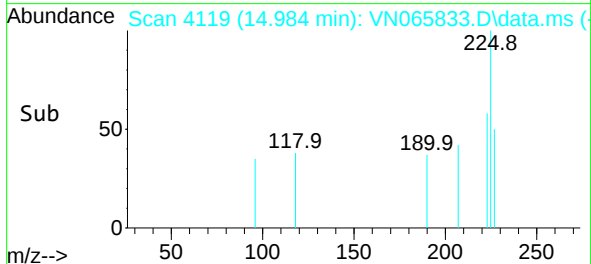
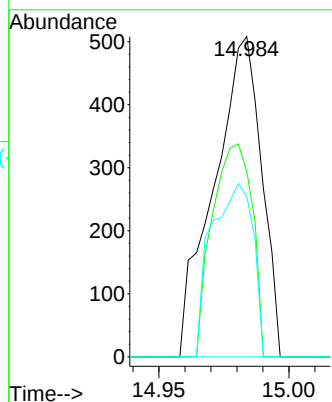


#90  
Hexachlorobutadiene  
Concen: 0.74 ug/l  
RT: 14.984 min Scan# 4119  
Delta R.T. 0.007 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

Instrument :  
MSVOA\_N  
ClientSampleId :

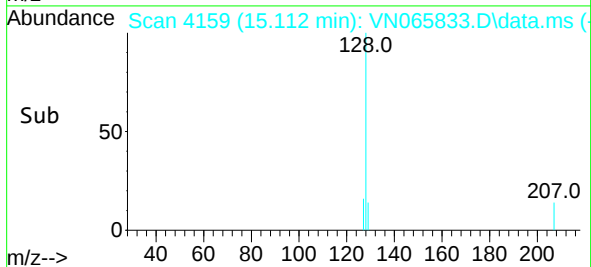
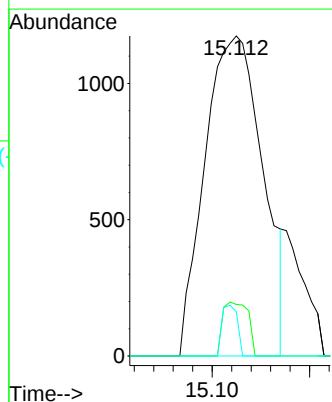
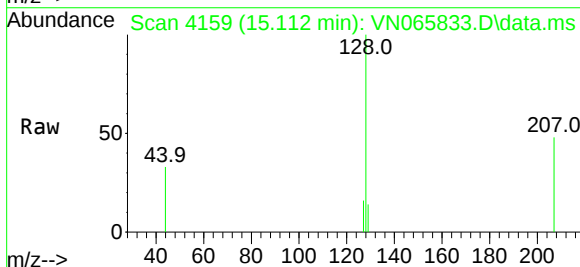


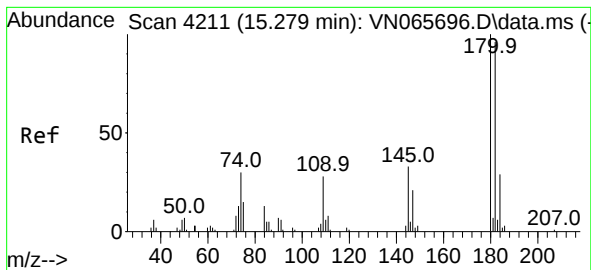
Tgt Ion:225 Resp: 645  
Ion Ratio Lower Upper  
225 100  
223 55.8 0.0 122.0  
227 47.6 0.0 126.4



#91  
Naphthalene  
Concen: 0.40 ug/l  
RT: 15.112 min Scan# 4159  
Delta R.T. 0.013 min  
Lab File: VN065833.D  
Acq: 12 Feb 2021 13:01

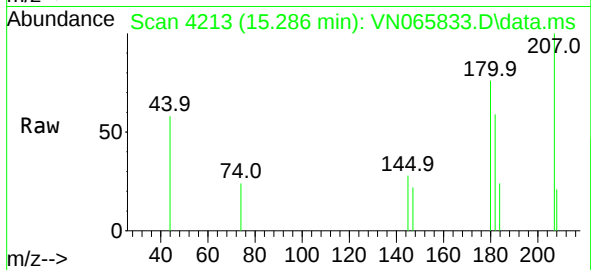
Tgt Ion:128 Resp: 2421  
Ion Ratio Lower Upper  
128 100  
127 6.0 10.1 15.1#  
129 4.2 8.6 12.8#





#92  
 1,2,3-Trichlorobenzene  
 Concen: 0.51 ug/l  
 RT: 15.286 min Scan# 4213  
 Delta R.T. 0.007 min  
 Lab File: VN065833.D  
 Acq: 12 Feb 2021 13:01

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 978  
 Ion Ratio Lower Upper  
 180 100  
 182 87.2 0.0 190.4  
 145 19.0 0.0 57.8

