

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022421\  
 Data File : VN066001.D  
 Acq On : 24 Feb 2021 14:07  
 Operator : JC/MD  
 Sample : M1473-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 25 02:13:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 17 15:48:13 2021  
 Response via : Initial Calibration

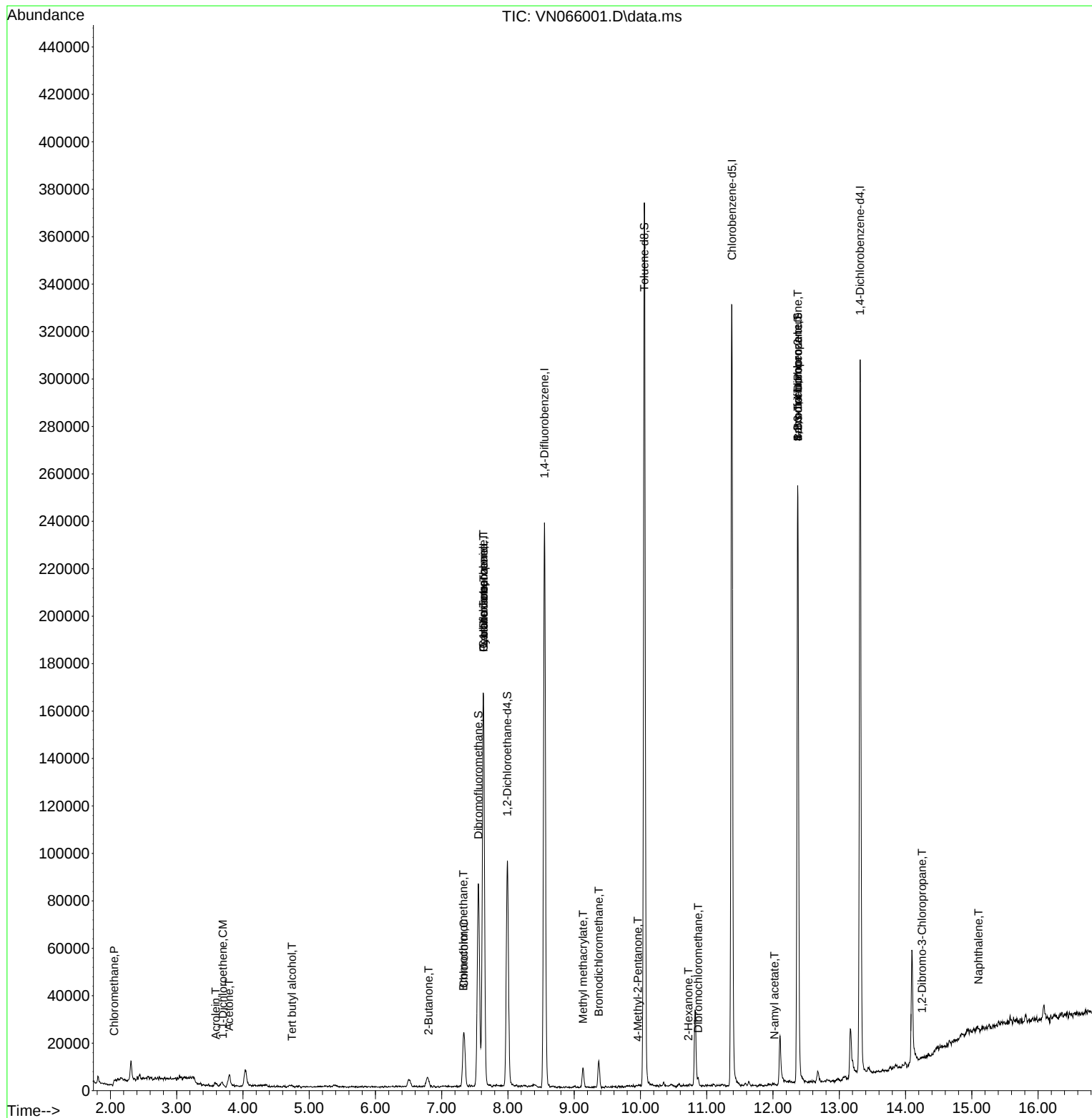
| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) Pentafluorobenzene         | 7.630          | 168  | 134244     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550          | 114  | 219099     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.379         | 117  | 202794     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.315         | 152  | 85554      | 50.00  | ug/l   | 0.00     |
|                               |                |      |            |        |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.990          | 65   | 89239      | 47.54  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 95.08% |        |          |
| 35) Dibromofluoromethane      | 7.553          | 113  | 67058      | 49.45  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 98.90% |        |          |
| 50) Toluene-d8                | 10.058         | 98   | 266007     | 47.79  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 95.58% |        |          |
| 62) 4-Bromofluorobenzene      | 12.373         | 95   | 98868      | 47.32  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 94.64% |        |          |
|                               |                |      |            |        |        |          |
| Target Compounds              |                |      |            |        |        | Qvalue   |
| 3) Chloromethane              | 2.055          | 50   | 1021       | 0.46   | ug/l # | 84       |
| 11) Tert butyl alcohol        | 4.740          | 59   | 448        | 1.72   | ug/l # | 73       |
| 12) 1,1-Dichloroethene        | 3.695          | 96   | 340        | 0.23   | ug/l # | 1        |
| 13) Acrolein                  | 3.589          | 56   | 1827       | 7.65   | ug/l   | 96       |
| 16) Acetone                   | 3.791          | 43   | 8876       | 13.53  | ug/l   | 94       |
| 25) 2-Butanone                | 6.801          | 43   | 1559       | 1.68   | ug/l # | 46       |
| 28) Bromochloromethane        | 7.328          | 49   | 1015       | 0.74   | ug/l # | 9        |
| 30) Chloroform                | 7.335          | 83   | 26203      | 8.92   | ug/l   | 97       |
| 31) Cyclohexane               | 7.630          | 56   | 2574       | 0.92   | ug/l # | 6        |
| 36) 1,1-Dichloropropene       | 7.627          | 75   | 10454      | 4.84   | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 13230      | 6.59   | ug/l # | 17       |
| 47) Bromodichloromethane      | 9.370          | 83   | 8724       | 4.14   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.132          | 41   | 2252       | 1.43   | ug/l # | 39       |
| 51) 4-Methyl-2-Pentanone      | 9.961          | 43   | 908        | 0.48   | ug/l # | 35       |
| 59) 2-Hexanone                | 10.723         | 43   | 541        | 0.40   | ug/l # | 23       |
| 60) Dibromochloromethane      | 10.871         | 129  | 1748       | 1.12   | ug/l   | 100      |
| 71) Bromoform                 | 12.373         | 173  | 381        | 2.83   | ug/l # | 1        |
| 74) N-amyl acetate            | 12.022         | 43   | 714        | 0.29   | ug/l # | 42       |
| 76) 1,2,3-Trichloropropane    | 12.373         | 75   | 49882      | 24.27  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.373         | 75   | 49882      | 77.35  | ug/l # | 12       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.251         | 75   | 65         | 1.00   | ug/l # | 1        |
| 95) Naphthalene               | 15.100         | 128  | 400        | 3.13   | ug/l # | 69       |
| -----                         |                |      |            |        |        |          |

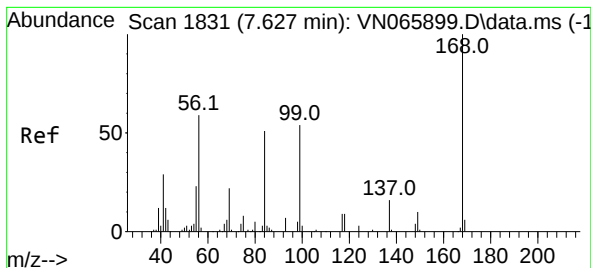
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022421\  
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Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Feb 25 02:13:22 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 17 15:48:13 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.630 min Scan# 1832

Delta R.T. 0.003 min

Lab File: VN066001.D

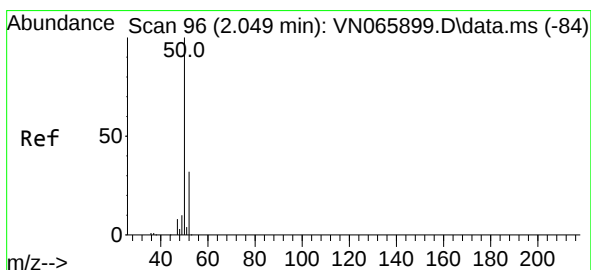
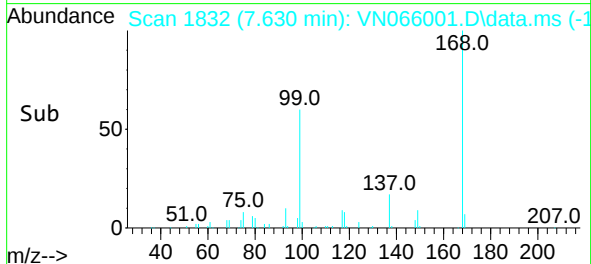
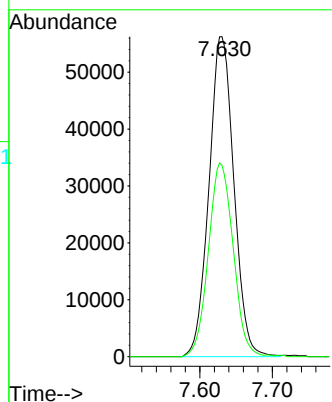
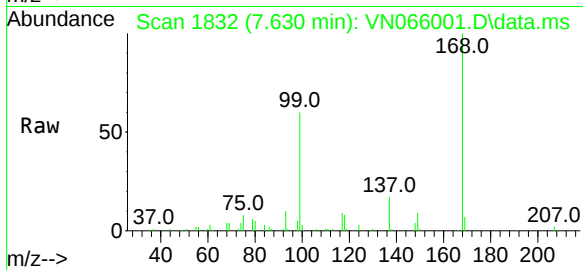
Acq: 24 Feb 2021 14:07

Tgt Ion:168 Resp: 134244

Ion Ratio Lower Upper

168 100

99 59.8 42.6 63.8



#3

Chloromethane

Concen: 0.46 ug/l

RT: 2.055 min Scan# 98

Delta R.T. 0.006 min

Lab File: VN066001.D

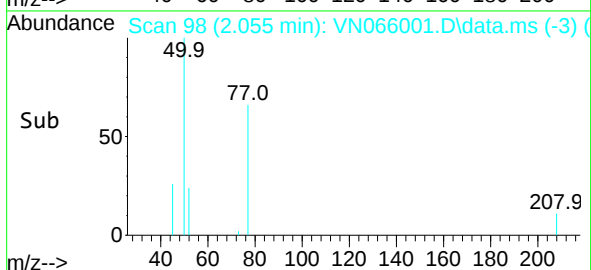
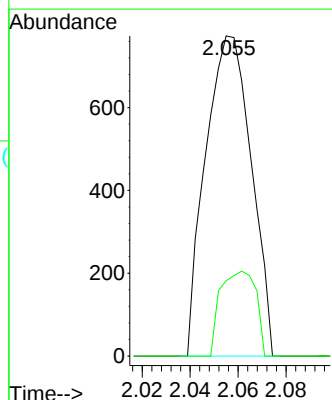
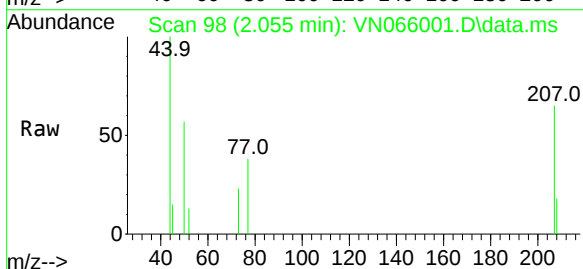
Acq: 24 Feb 2021 14:07

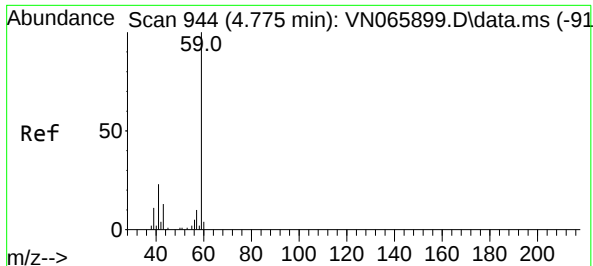
Tgt Ion: 50 Resp: 1021

Ion Ratio Lower Upper

50 100

52 23.5 25.8 38.8#

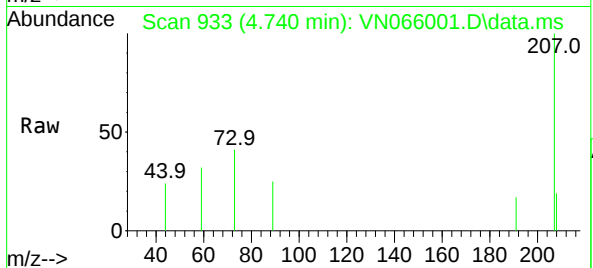




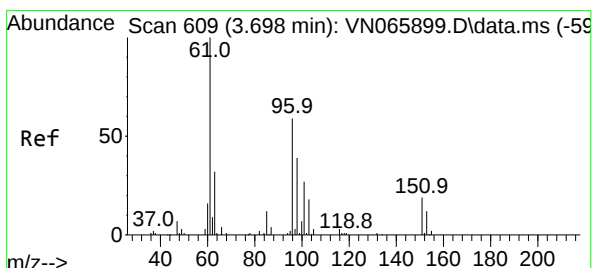
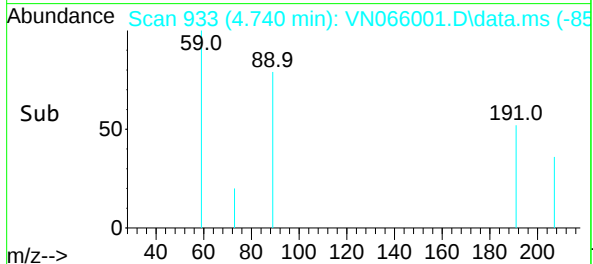
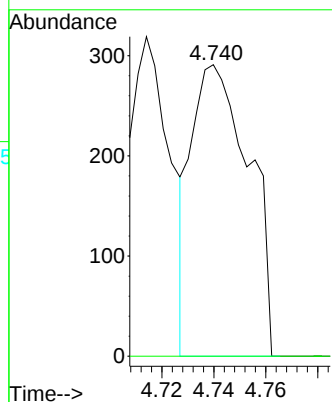
#11

Tert butyl alcohol  
Concen: 1.72 ug/l  
RT: 4.740 min Scan# 933  
Delta R.T. -0.035 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Instrument :  
MSVOA\_N  
ClientSampled :



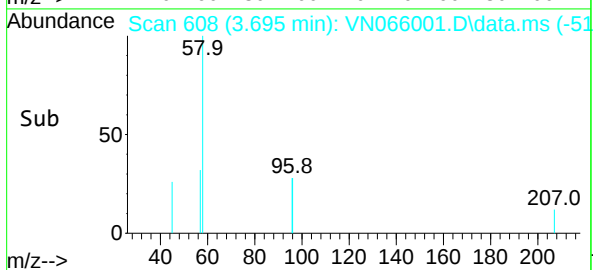
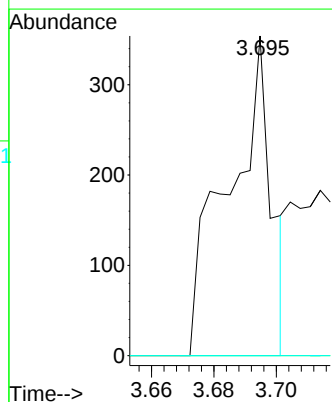
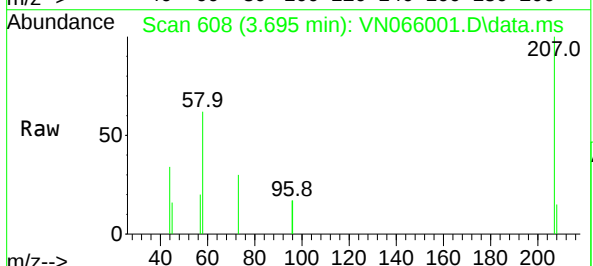
Tgt Ion: 59 Resp: 448  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

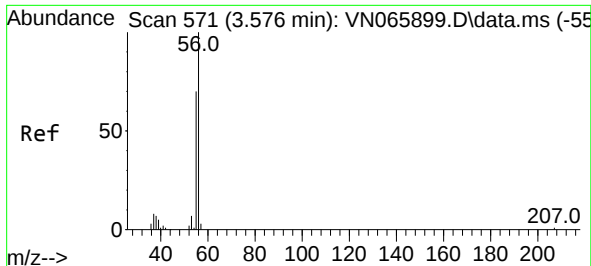


#12

1,1-Dichloroethene  
Concen: 0.23 ug/l  
RT: 3.695 min Scan# 608  
Delta R.T. -0.003 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

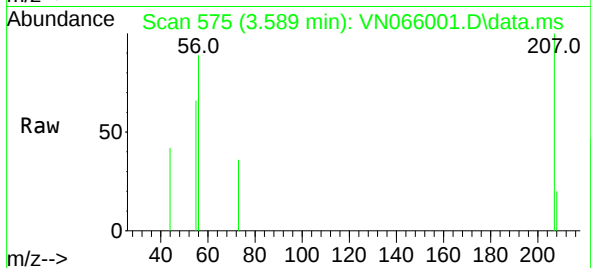
Tgt Ion: 96 Resp: 340  
Ion Ratio Lower Upper  
96 100  
61 0.0 122.5 183.7#  
98 0.0 50.8 76.2#



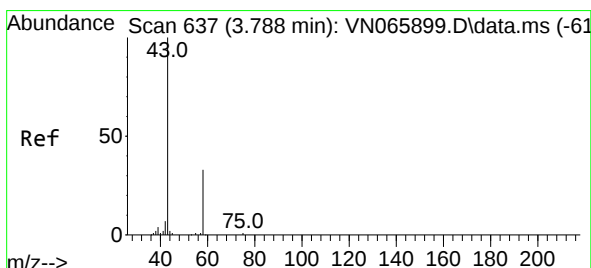
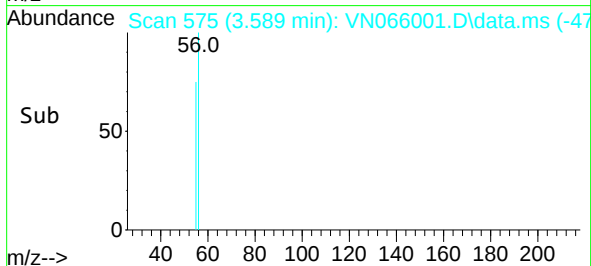
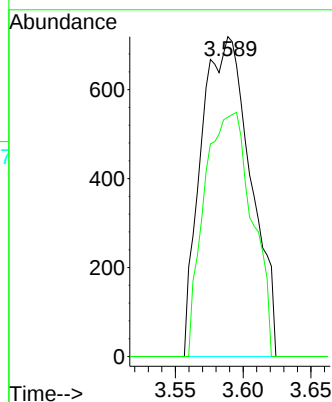


#13  
Acrolein  
Concen: 7.65 ug/l  
RT: 3.589 min Scan# 575  
Delta R.T. 0.013 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Instrument :  
MSVOA\_N  
ClientSampled :

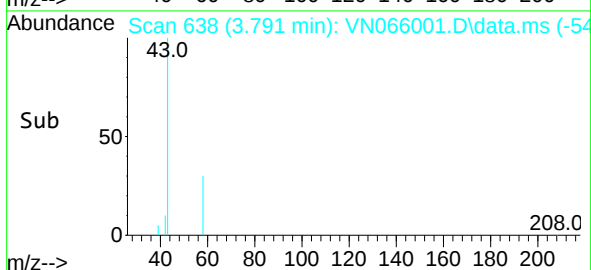
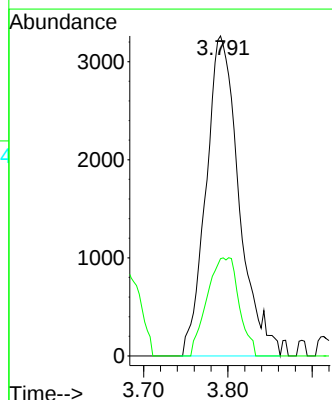
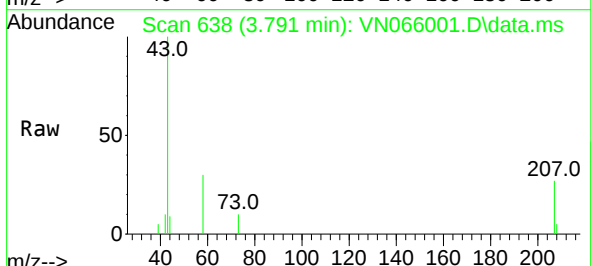


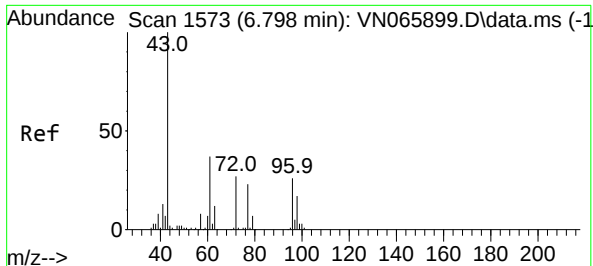
Tgt Ion: 56 Resp: 1827  
Ion Ratio Lower Upper  
56 100  
55 73.2 56.0 84.0



#16  
Acetone  
Concen: 13.53 ug/l  
RT: 3.791 min Scan# 638  
Delta R.T. 0.003 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion: 43 Resp: 8876  
Ion Ratio Lower Upper  
43 100  
58 30.4 27.0 40.6

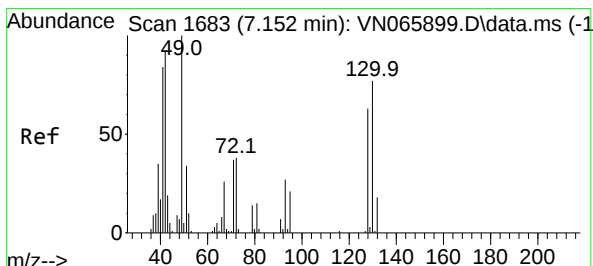
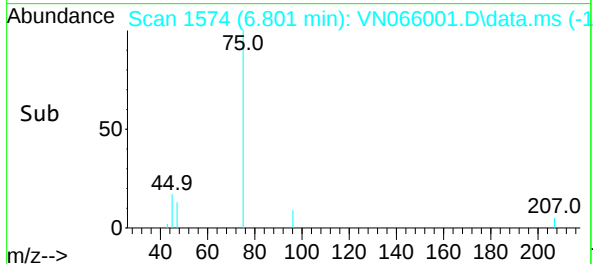
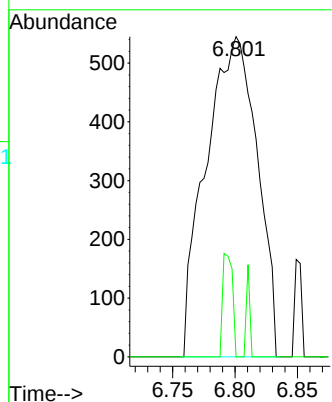
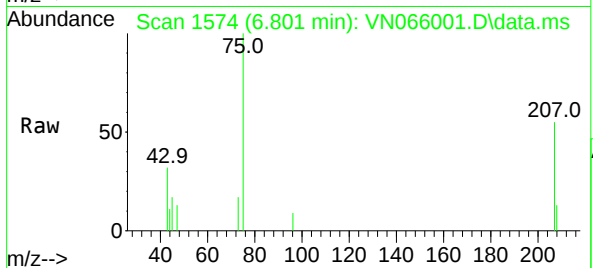




#25  
2-Butanone  
Concen: 1.68 ug/l  
RT: 6.801 min Scan# 1574  
Delta R.T. 0.003 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

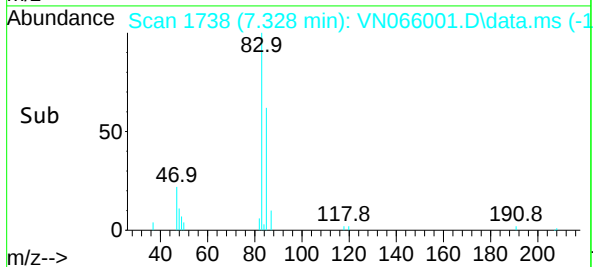
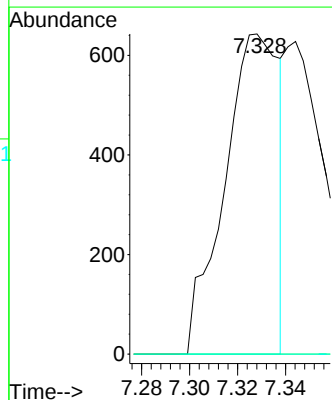
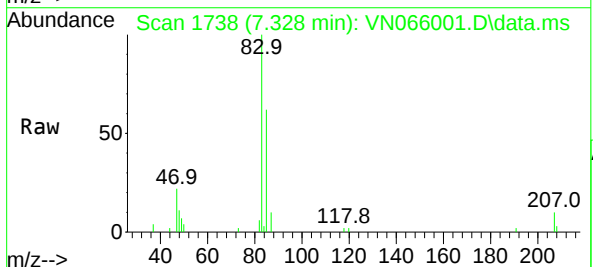
Instrument :  
MSVOA\_N  
ClientSampled :

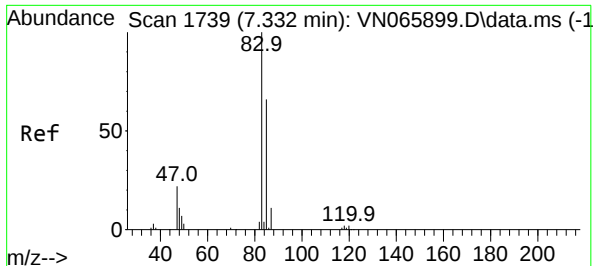
Tgt Ion: 43 Resp: 1559  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.1 34.7#



#28  
Bromochloromethane  
Concen: 0.74 ug/l  
RT: 7.328 min Scan# 1738  
Delta R.T. 0.176 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion: 49 Resp: 1015  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 67.8 101.6#





#30

Chloroform

Concen: 8.92 ug/l

RT: 7.335 min Scan# 1740

Delta R.T. 0.003 min

Lab File: VN066001.D

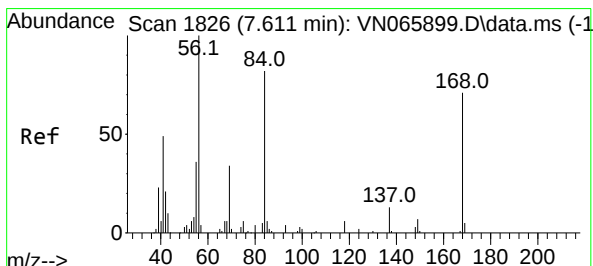
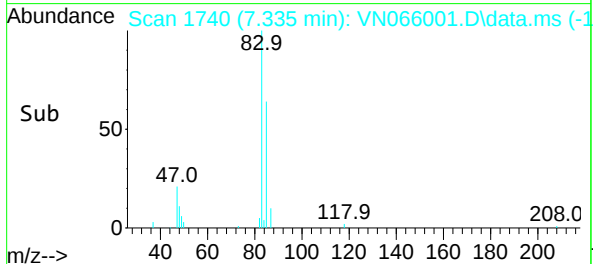
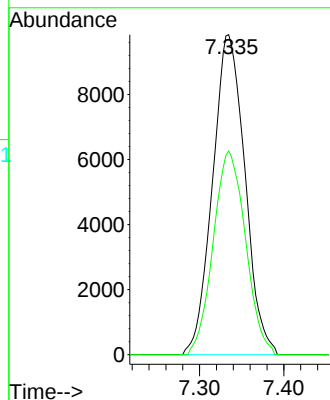
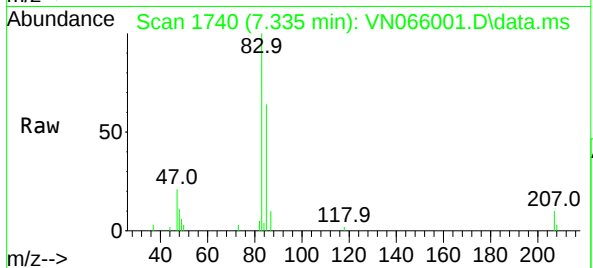
Acq: 24 Feb 2021 14:07

Tgt Ion: 83 Resp: 26203

Ion Ratio Lower Upper

83 100

85 63.6 52.6 78.8



#31

Cyclohexane

Concen: 0.92 ug/l

RT: 7.630 min Scan# 1832

Delta R.T. 0.019 min

Lab File: VN066001.D

Acq: 24 Feb 2021 14:07

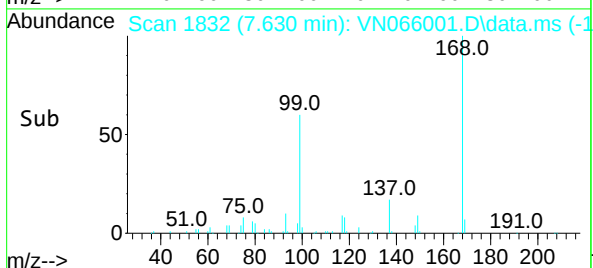
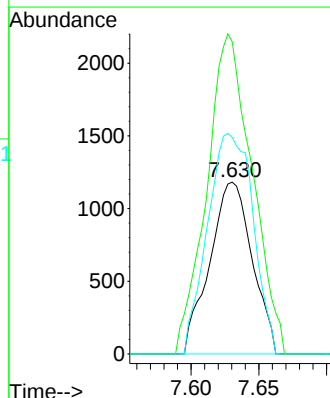
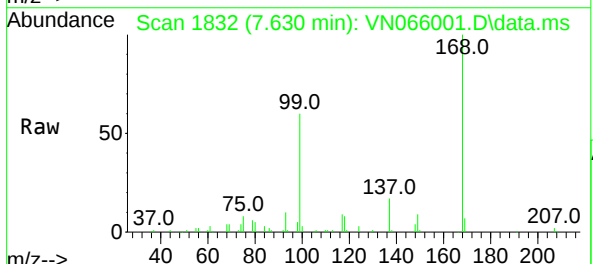
Tgt Ion: 56 Resp: 2574

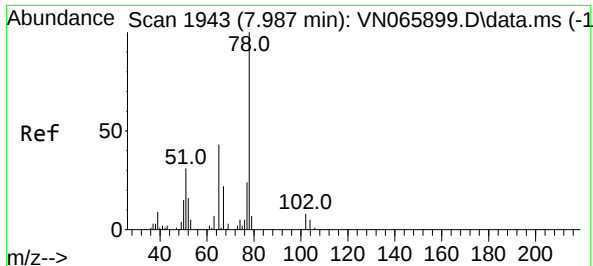
Ion Ratio Lower Upper

56 100

69 166.4 26.6 39.8#

84 126.1 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 47.54 ug/l

RT: 7.990 min Scan# 1944

Delta R.T. 0.003 min

Lab File: VN066001.D

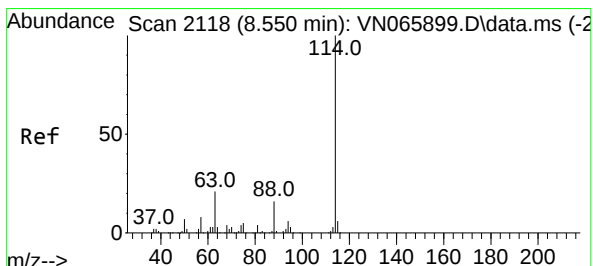
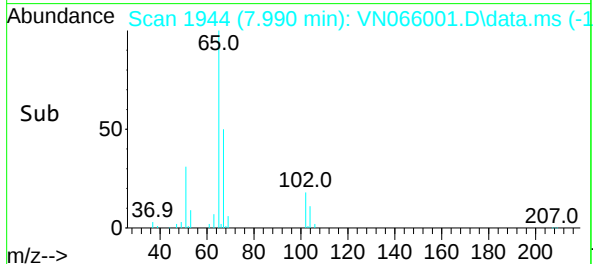
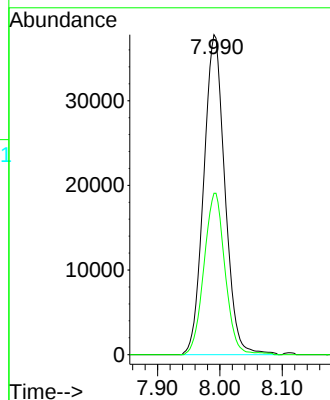
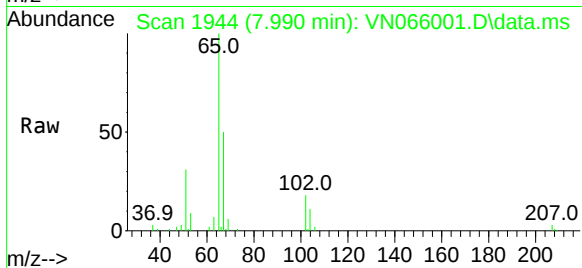
Acq: 24 Feb 2021 14:07

Tgt Ion: 65 Resp: 89239

Ion Ratio Lower Upper

65 100

67 50.0 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.550 min Scan# 2118

Delta R.T. -0.000 min

Lab File: VN066001.D

Acq: 24 Feb 2021 14:07

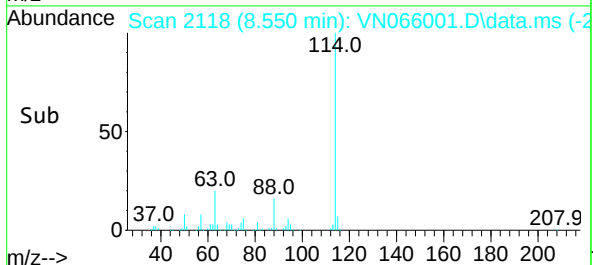
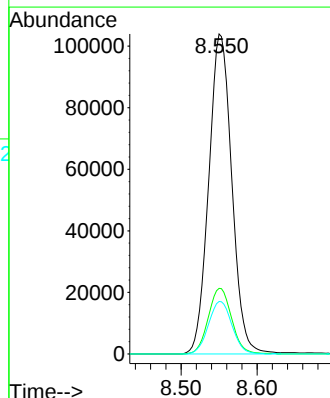
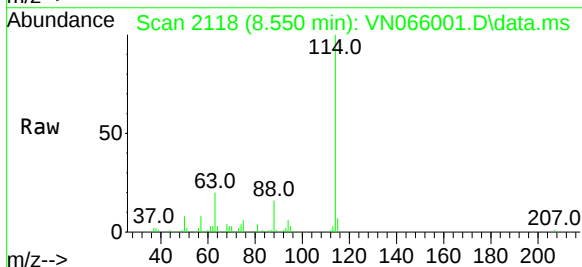
Tgt Ion: 114 Resp: 219099

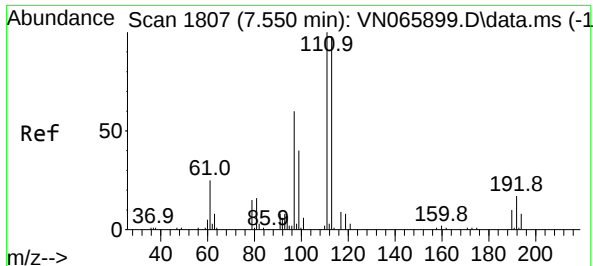
Ion Ratio Lower Upper

114 100

63 20.5 0.0 38.6

88 16.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.45 ug/l

RT: 7.553 min Scan# 1808

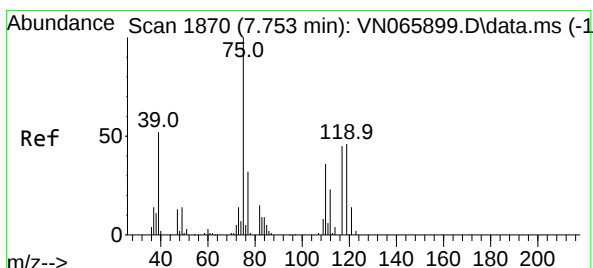
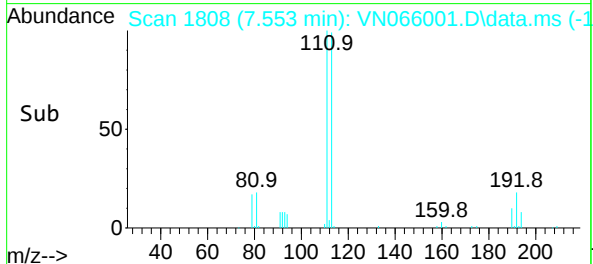
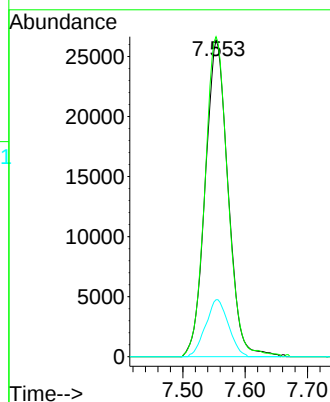
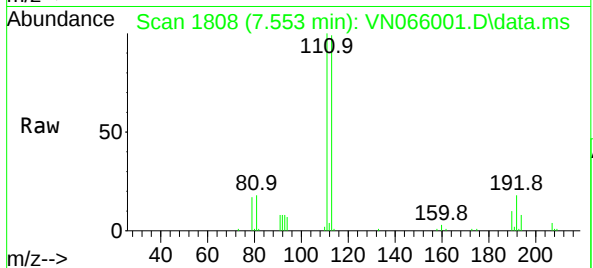
Delta R.T. 0.003 min

Lab File: VN066001.D

Acq: 24 Feb 2021 14:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 67058 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.5 | 82.2  | 123.2 |
| 192      | 18.0  | 15.4  | 23.0  |

Instrument :  
MSVOA\_N  
ClientSampled :



#36

1,1-Dichloropropene

Concen: 4.84 ug/l

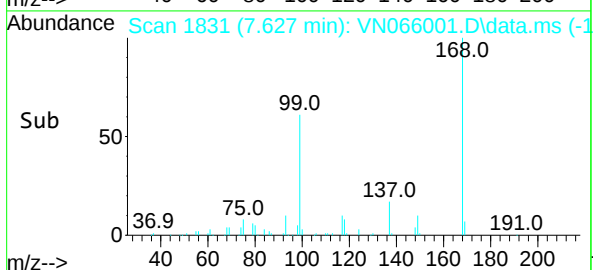
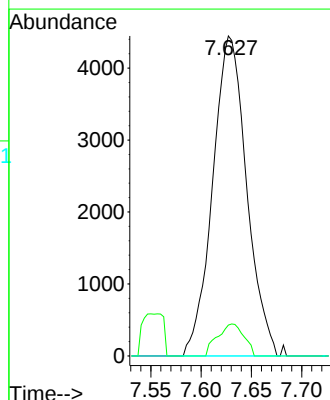
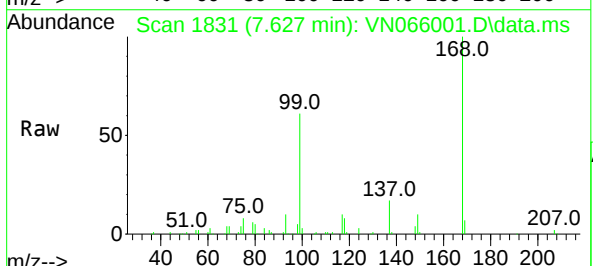
RT: 7.627 min Scan# 1831

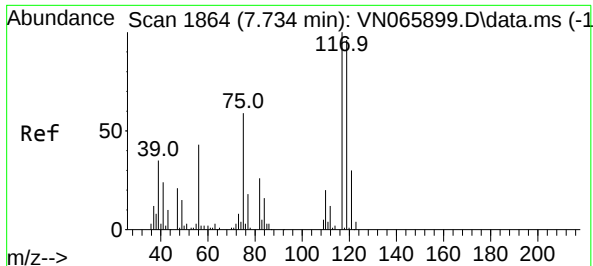
Delta R.T. -0.126 min

Lab File: VN066001.D

Acq: 24 Feb 2021 14:07

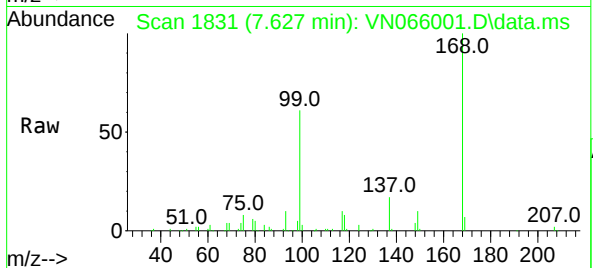
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 10454 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.8   | 18.2  | 54.6# |
| 77       | 0.0   | 24.9  | 37.3# |



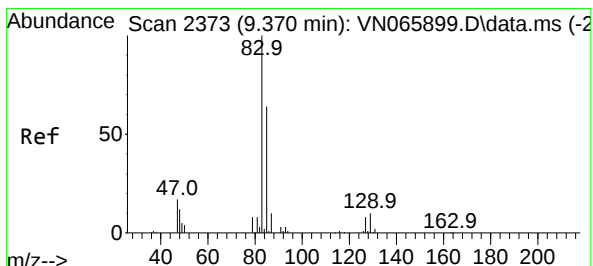
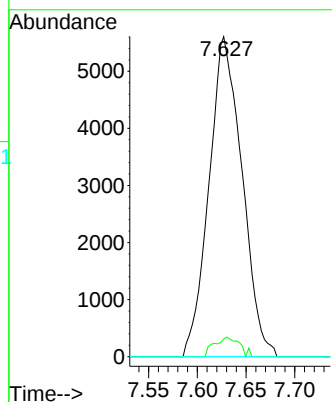
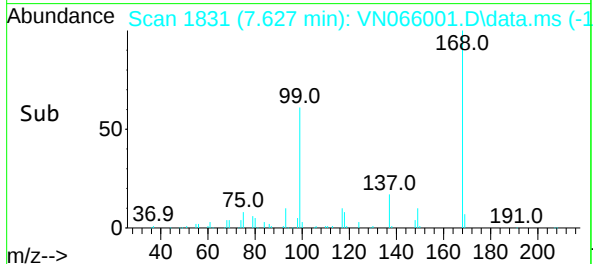


#38  
Carbon Tetrachloride  
Concen: 6.59 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.107 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

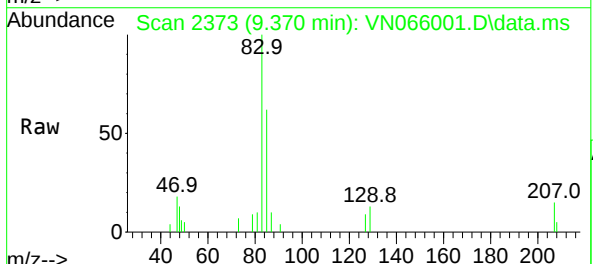
Instrument :  
MSVOA\_N  
ClientSampleId :



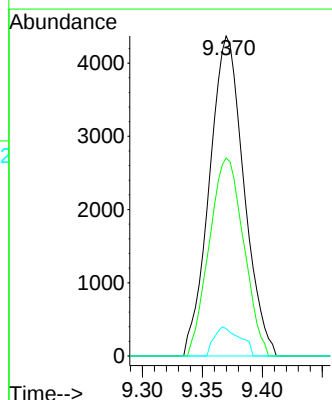
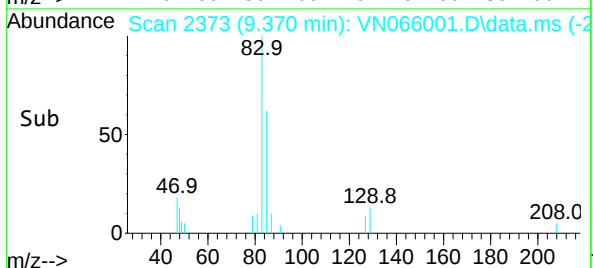
Tgt Ion:117 Resp: 13230  
Ion Ratio Lower Upper  
117 100  
119 5.5 76.0 114.0#  
121 0.0 24.5 36.7#

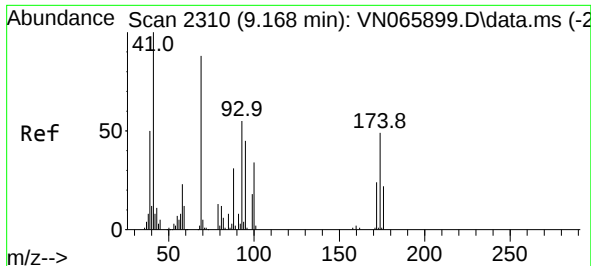


#47  
Bromodichloromethane  
Concen: 4.14 ug/l  
RT: 9.370 min Scan# 2373  
Delta R.T. -0.000 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07



Tgt Ion: 83 Resp: 8724  
Ion Ratio Lower Upper  
83 100  
85 61.8 51.0 76.4  
127 8.6 7.0 10.6

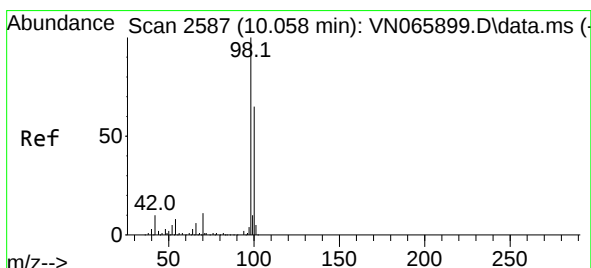
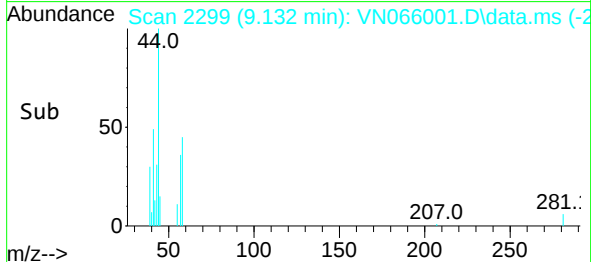
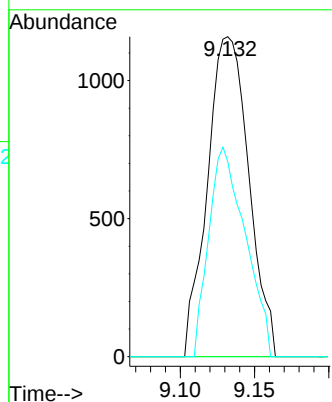
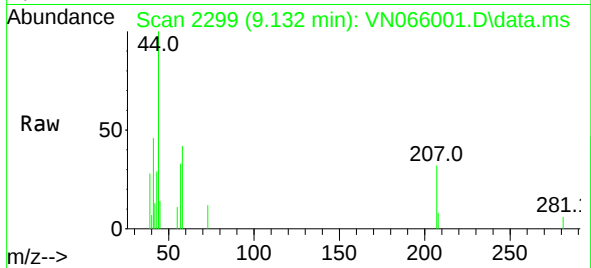




#48  
Methyl methacrylate  
Concen: 1.43 ug/l  
RT: 9.132 min Scan# 2299  
Delta R.T. -0.036 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

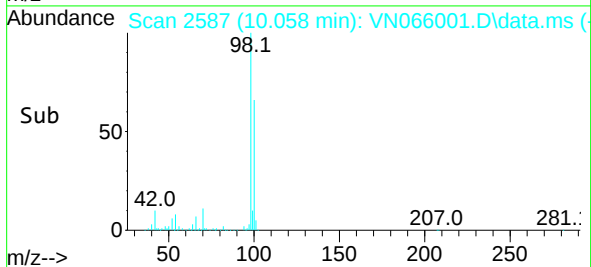
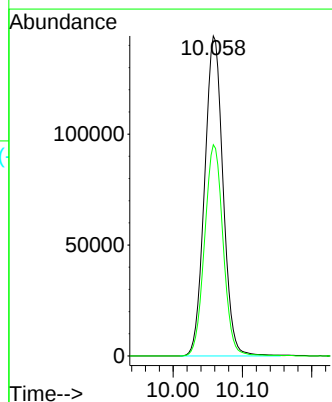
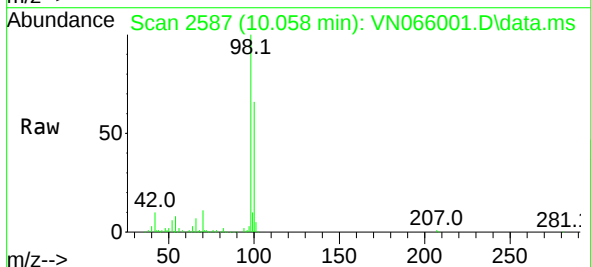
Instrument :  
MSVOA\_N  
ClientSampled :

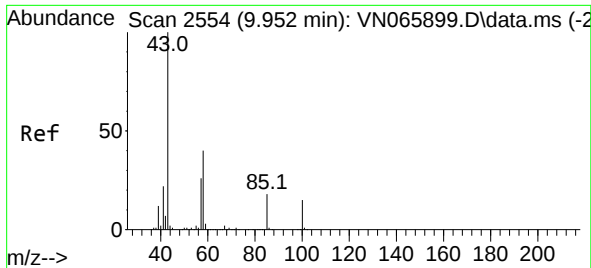
Tgt Ion: 41 Resp: 2252  
Ion Ratio Lower Upper  
41 100  
69 0.0 75.9 113.9#  
39 57.7 46.6 69.8



#50  
Toluene-d8  
Concen: 47.79 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. -0.000 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion: 98 Resp: 266007  
Ion Ratio Lower Upper  
98 100  
100 66.2 50.5 75.7

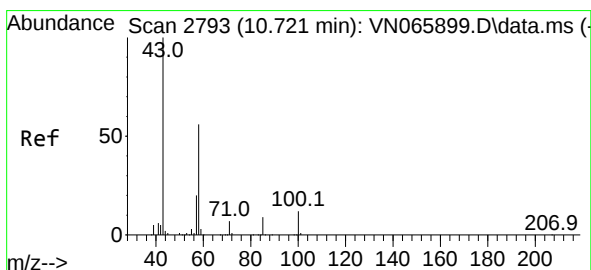
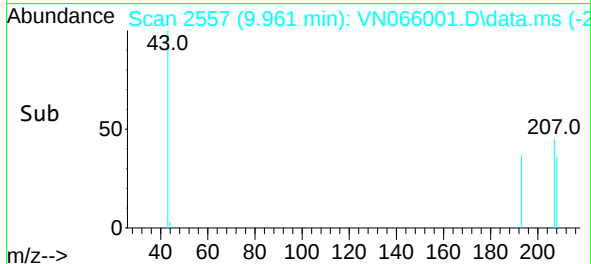
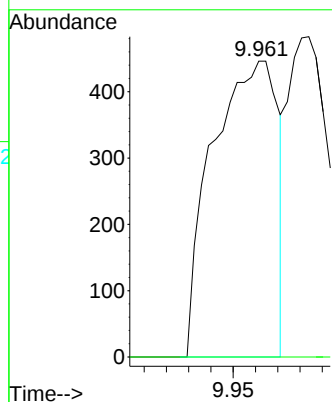
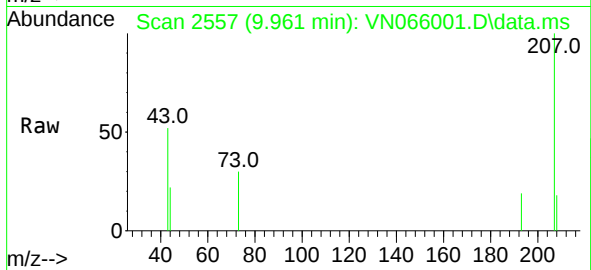




#51  
4-Methyl-2-Pentanone  
Concen: 0.48 ug/l  
RT: 9.961 min Scan# 2557  
Delta R.T. 0.009 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

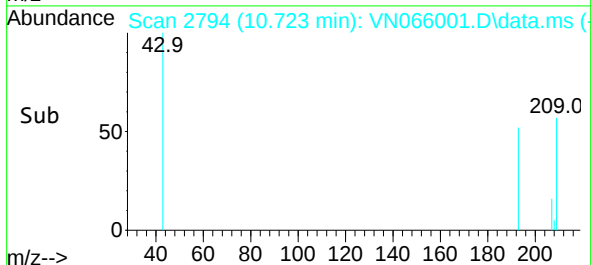
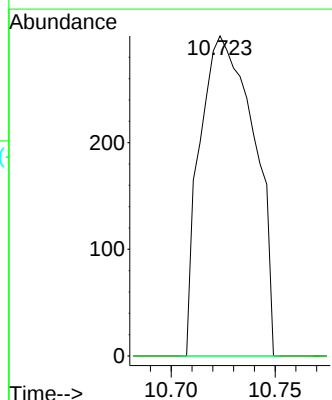
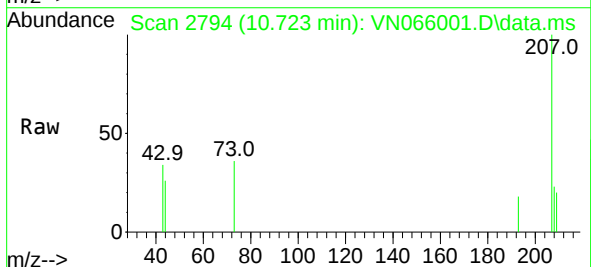
Instrument :  
MSVOA\_N  
ClientSampled :

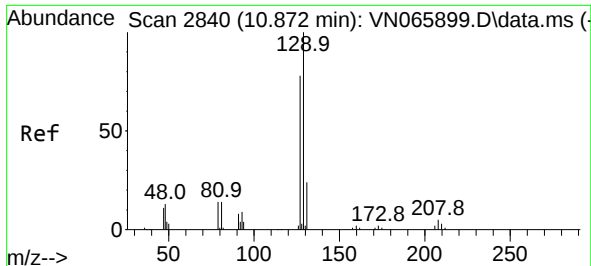
Tgt Ion: 43 Resp: 908  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.5 48.7#



#59  
2-Hexanone  
Concen: 0.40 ug/l  
RT: 10.723 min Scan# 2794  
Delta R.T. 0.002 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion: 43 Resp: 541  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.1 84.3#

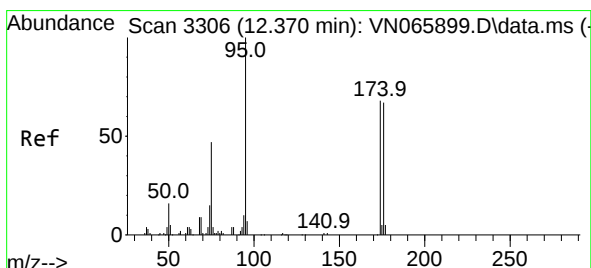
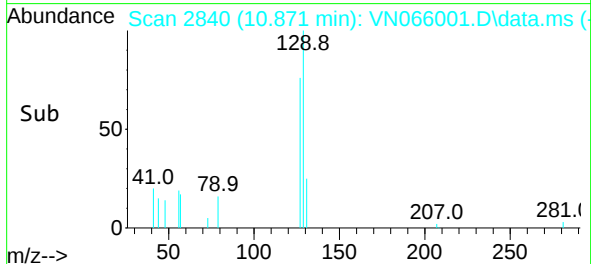
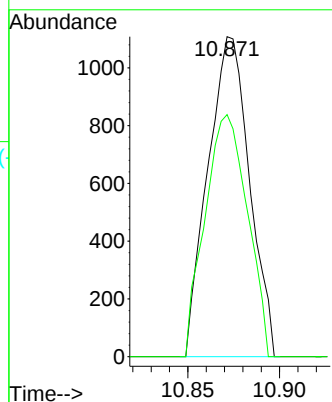
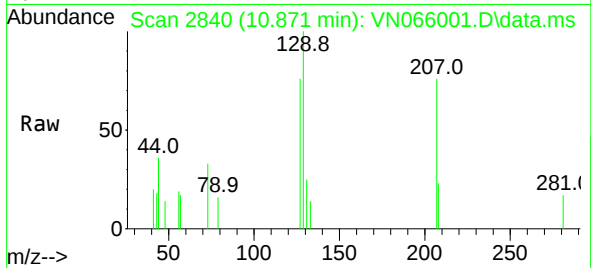




#60  
Dibromochloromethane  
Concen: 1.12 ug/l  
RT: 10.871 min Scan# 2840  
Delta R.T. -0.001 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

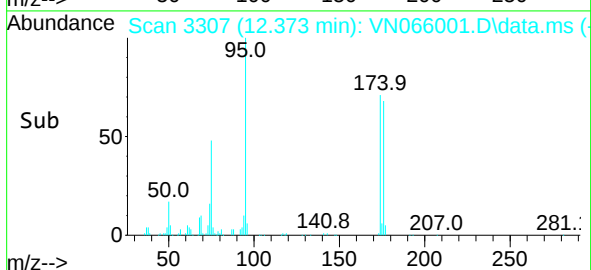
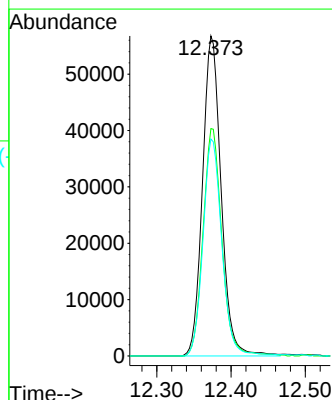
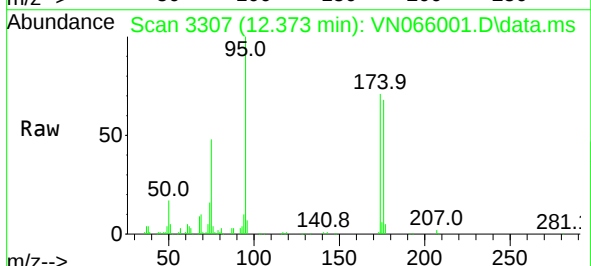
Instrument :  
MSVOA\_N  
ClientSampled :

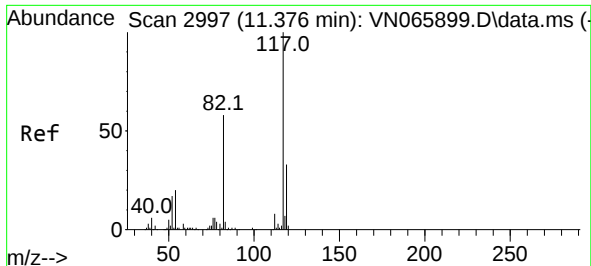
Tgt Ion:129 Resp: 1748  
Ion Ratio Lower Upper  
129 100  
127 76.9 38.5 115.5



#62  
4-Bromofluorobenzene  
Concen: 47.32 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.003 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion: 95 Resp: 98868  
Ion Ratio Lower Upper  
95 100  
174 71.8 0.0 169.0  
176 68.5 0.0 162.4

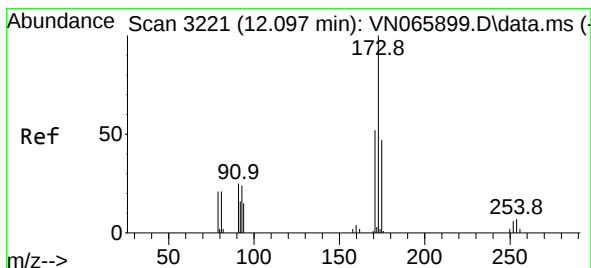
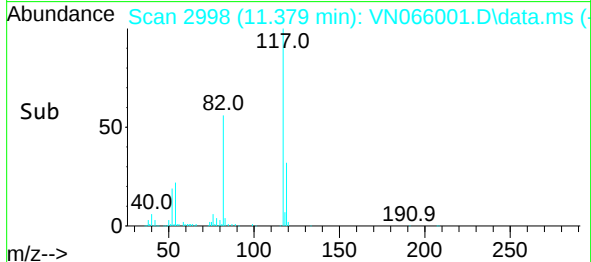
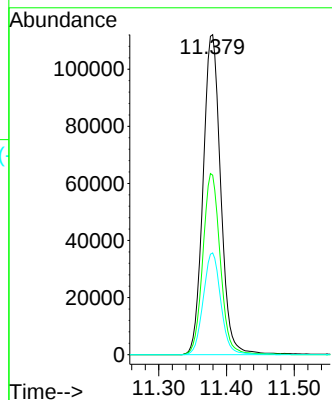
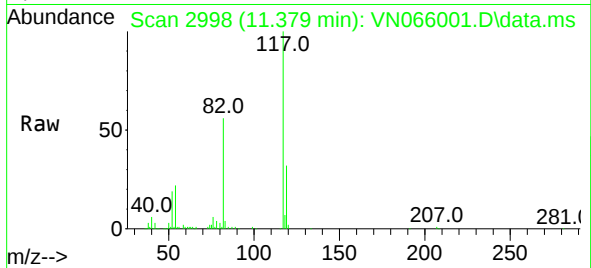




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. 0.003 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

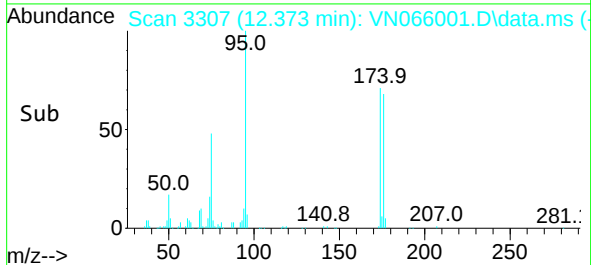
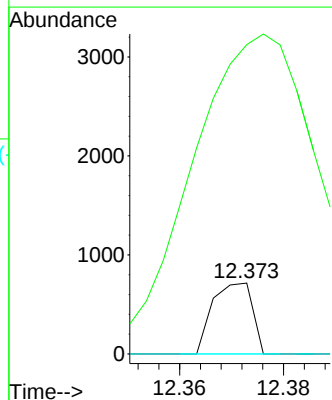
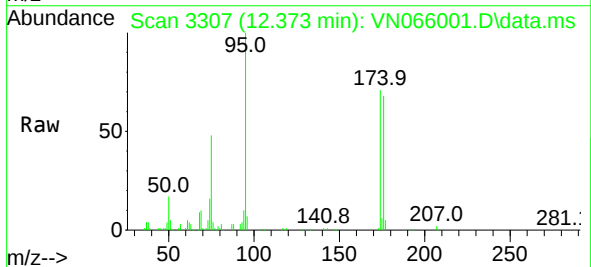
Instrument :  
MSVOA\_N  
ClientSampled :

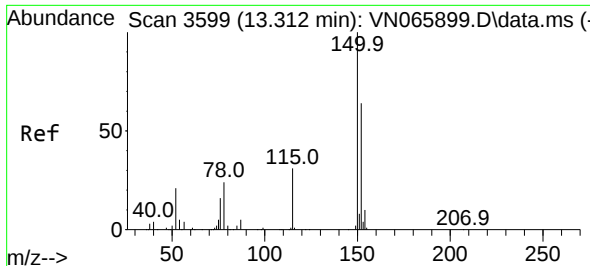
Tgt Ion:117 Resp: 202794  
Ion Ratio Lower Upper  
117 100  
82 56.1 43.7 65.5  
119 31.8 26.1 39.1



#71  
Bromoform  
Concen: 2.83 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.276 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion:173 Resp: 381  
Ion Ratio Lower Upper  
173 100  
175 1174.0 23.8 71.2#  
254 0.0 0.0 0.0

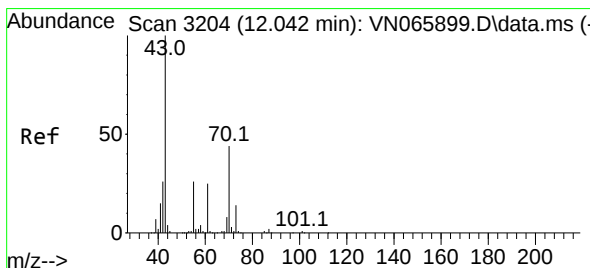
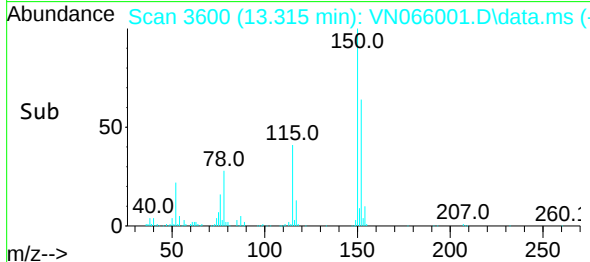
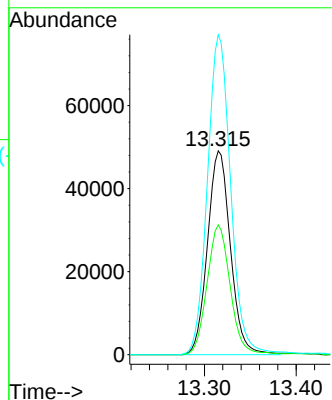
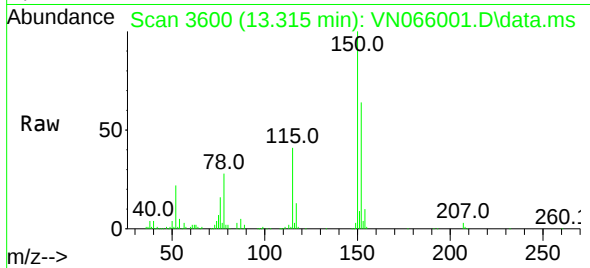




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.315 min Scan# 3600  
Delta R.T. 0.003 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

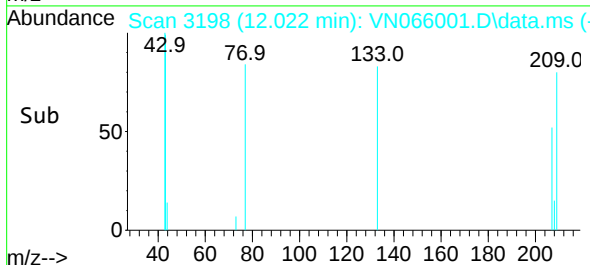
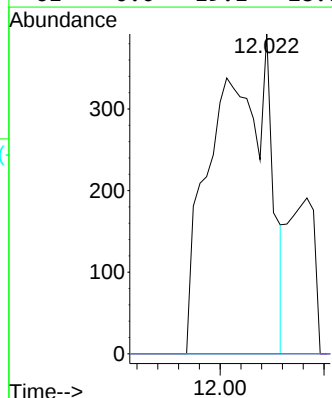
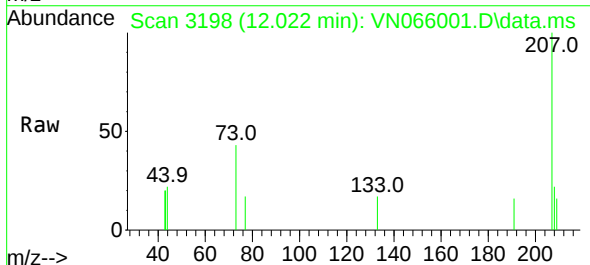
Instrument :  
MSVOA\_N  
ClientSampleId :

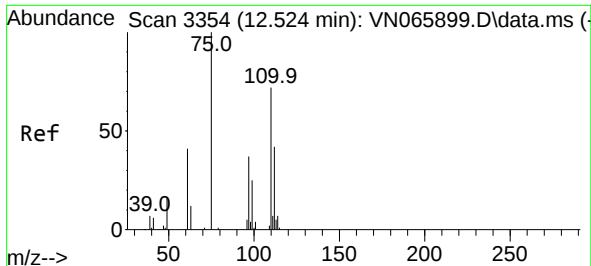
Tgt Ion:152 Resp: 85554  
Ion Ratio Lower Upper  
152 100  
115 64.1 28.5 85.6  
150 159.1 0.0 347.6



#74  
N-ethyl acetate  
Concen: 0.29 ug/l  
RT: 12.022 min Scan# 3198  
Delta R.T. -0.020 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion: 43 Resp: 714  
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#

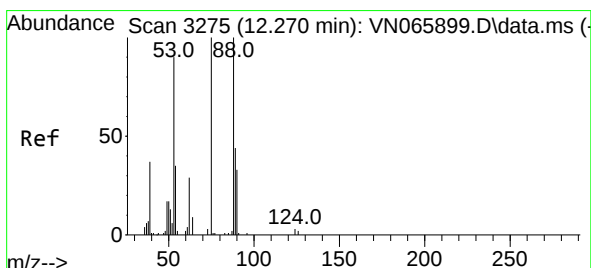
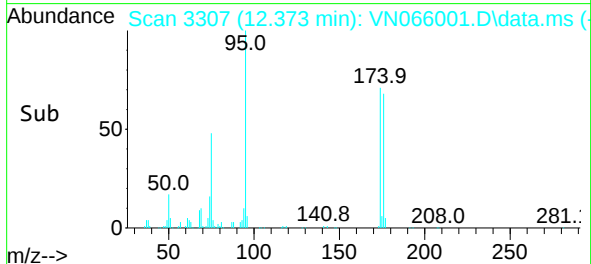
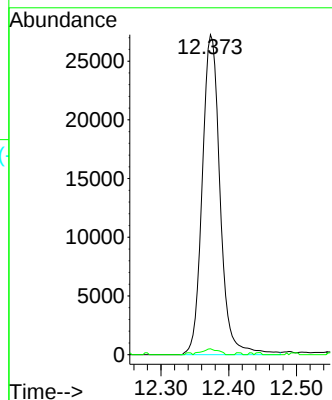
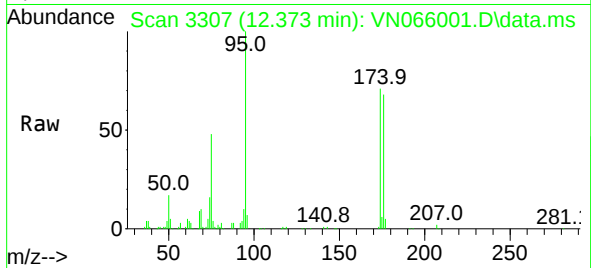




#76  
1,2,3-Trichloropropane  
Concen: 24.27 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. -0.151 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

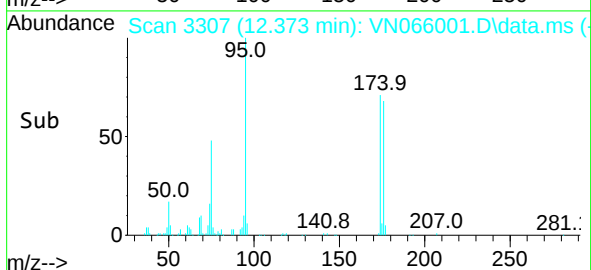
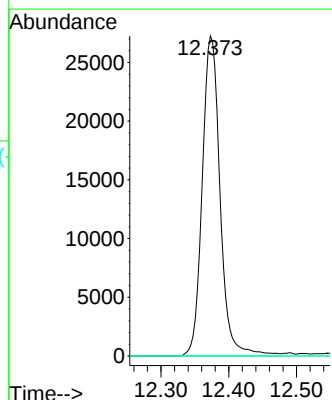
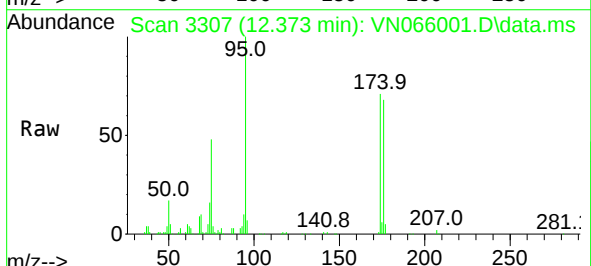
Instrument :  
MSVOA\_N  
ClientSampled :

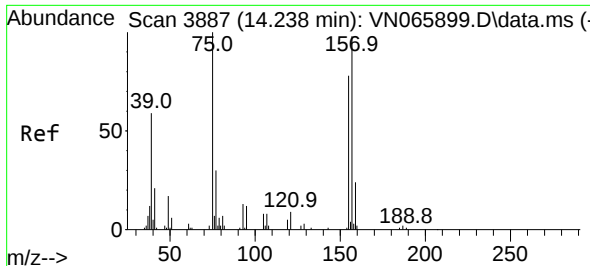
Tgt Ion: 75 Resp: 49882  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.35 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.103 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion: 75 Resp: 49882  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.6 111.8#  
89 0.0 35.8 53.8#

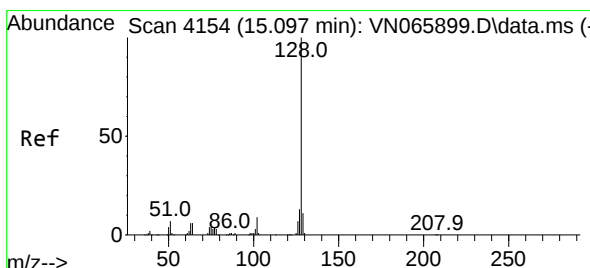
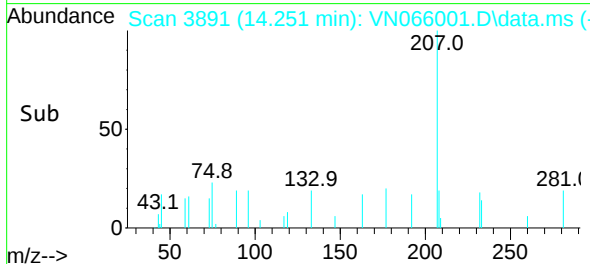
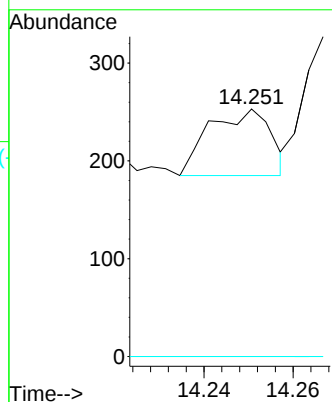
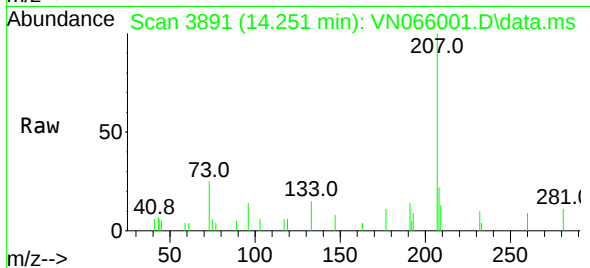




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.00 ug/l  
RT: 14.251 min Scan# 3891  
Delta R.T. 0.013 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 75 Resp: 65  
Ion Ratio Lower Upper  
75 100  
155 0.0 44.1 132.4#  
157 0.0 56.0 168.2#



#95  
Naphthalene  
Concen: 3.13 ug/l  
RT: 15.100 min Scan# 4155  
Delta R.T. 0.003 min  
Lab File: VN066001.D  
Acq: 24 Feb 2021 14:07

Tgt Ion:128 Resp: 400  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.2#  
129 0.0 8.6 13.0#

