

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122320\  
 Data File : VN065232.D  
 Acq On : 23 Dec 2020 14:00  
 Operator : JC/MD  
 Sample : PB133762TB  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB133762TB

Quant Time: Dec 24 04:20:10 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 22 15:42:18 2020  
 Response via : Initial Calibration

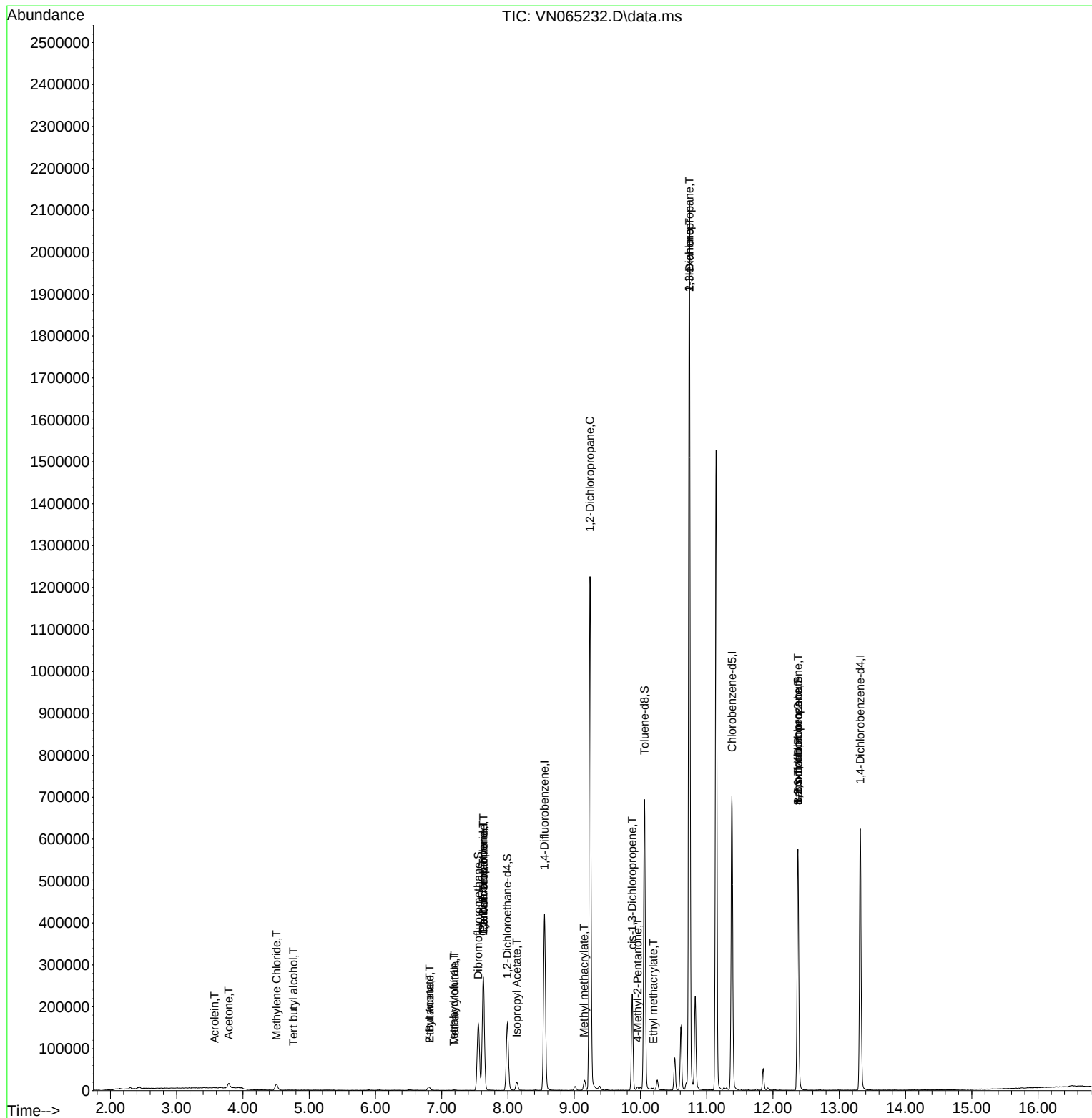
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 7.627          | 168  | 238431             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550          | 114  | 397377             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.379         | 117  | 415928             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318         | 152  | 184700             | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.991          | 65   | 140654             | 52.25  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 104.50% |        |        |          |
| 35) Dibromofluoromethane      | 7.550          | 113  | 122868             | 51.25  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 102.50% |        |        |          |
| 50) Toluene-d8                | 10.061         | 98   | 491536             | 54.70  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 109.40% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.376         | 95   | 200642             | 55.80  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 111.60% |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        | Qvalue |          |
| 11) Tert butyl alcohol        | 4.762          | 59   | 322                | 0.73   | ug/l # | 73       |
| 13) Acrolein                  | 3.569          | 56   | 313                | 3.45   | ug/l # | 76       |
| 16) Acetone                   | 3.782          | 43   | 17381              | 4.84   | ug/l   | 94       |
| 20) Methylene Chloride        | 4.505          | 84   | 10710              | 4.08   | ug/l   | 98       |
| 25) 2-Butanone                | 6.814          | 43   | 6697               | 4.43   | ug/l   | 94       |
| 29) Tetrahydrofuran           | 7.183          | 42   | 613                | 0.63   | ug/l # | 32       |
| 31) Cyclohexane               | 7.624          | 56   | 4331               | 1.09   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.624          | 75   | 15983              | 4.42   | ug/l # | 50       |
| 37) Ethyl Acetate             | 6.814          | 43   | 6697               | 1.87   | ug/l # | 66       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 20974              | 5.53   | ug/l # | 16       |
| 41) Methacrylonitrile         | 7.193          | 41   | 809                | 0.43   | ug/l # | 21       |
| 43) Isopropyl Acetate         | 8.132          | 43   | 25930              | 4.20   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.238          | 63   | 1447               | 0.52   | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.148          | 41   | 6161               | 2.06   | ug/l # | 12       |
| 51) 4-Methyl-2-Pentanone      | 9.955          | 43   | 5705               | 1.64   | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 9.875          | 75   | 41699              | 8.70   | ug/l # | 63       |
| 56) Ethyl methacrylate        | 10.196         | 69   | 3081               | 0.74   | ug/l # | 81       |
| 57) 1,3-Dichloropropane       | 10.736         | 76   | 21821              | 4.93   | ug/l # | 42       |
| 59) 2-Hexanone                | 10.736         | 43   | 315948             | 123.84 | ug/l # | 48       |
| 71) Bromoform                 | 12.376         | 173  | 1260               | 0.44   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.376         | 75   | 100853             | 26.76  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.376         | 75   | 100853             | 67.49  | ug/l # | 15       |
| -----                         |                |      |                    |        |        |          |

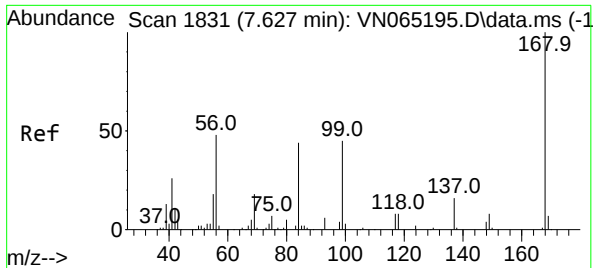
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB133762TB  
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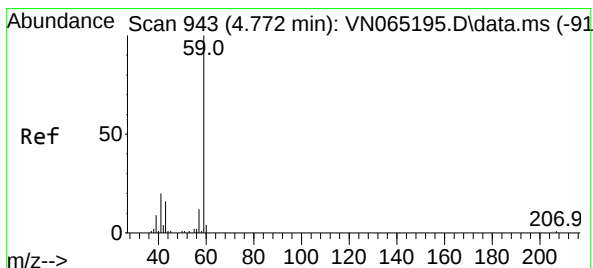
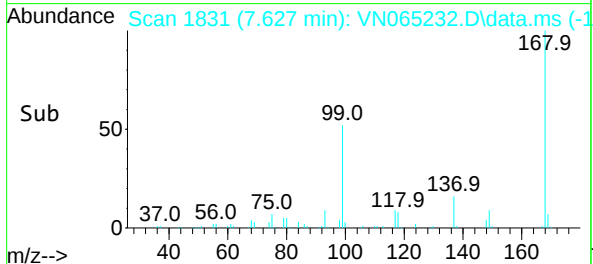
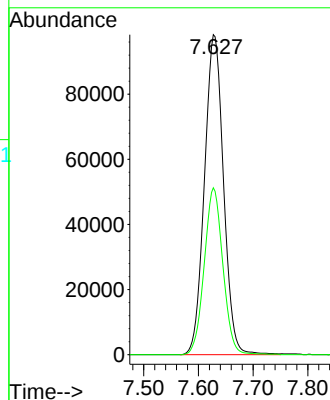
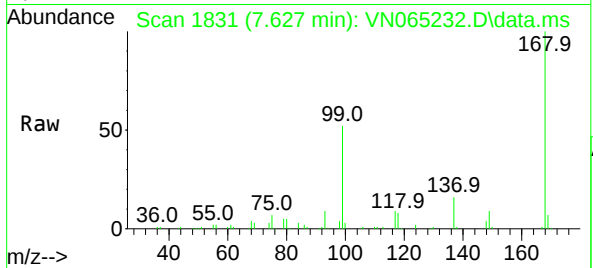




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.000 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

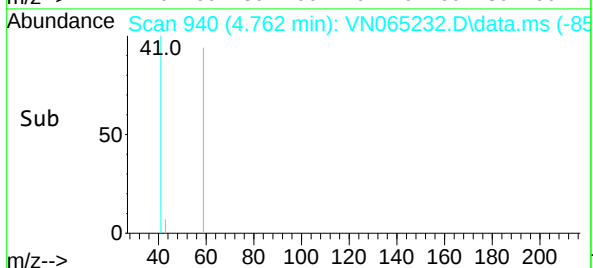
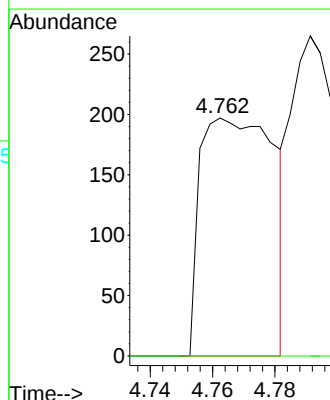
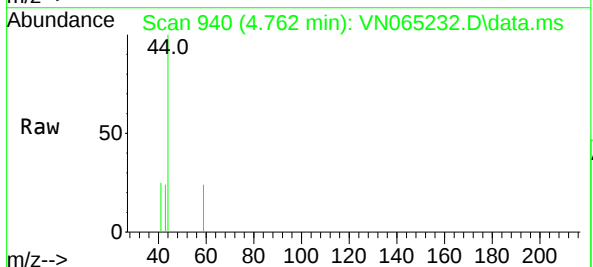
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762TB

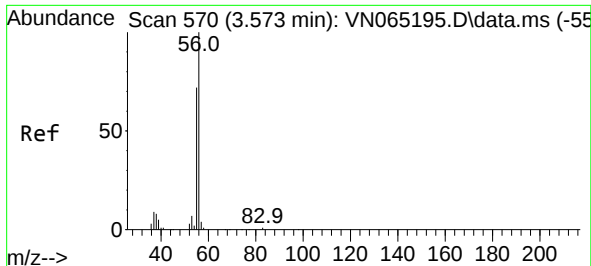
Tgt Ion:168 Resp: 238431  
Ion Ratio Lower Upper  
168 100  
99 52.2 43.0 64.4



#11  
Tert butyl alcohol  
Concen: 0.73 ug/l  
RT: 4.762 min Scan# 940  
Delta R.T. -0.010 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion: 59 Resp: 322  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#

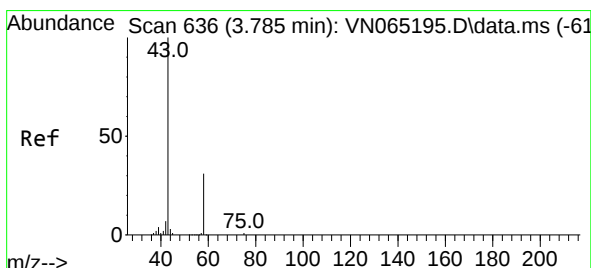
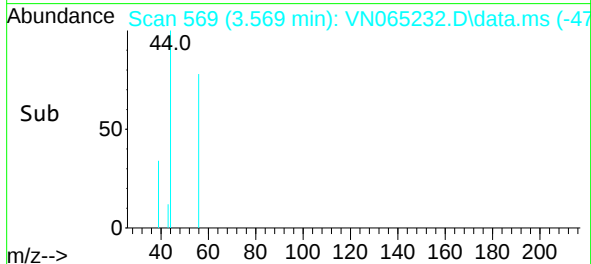
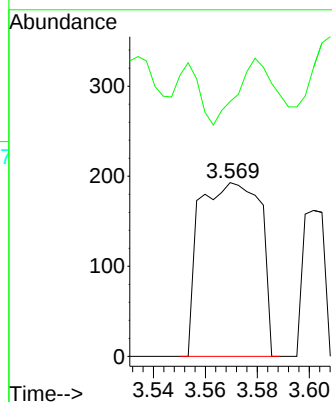
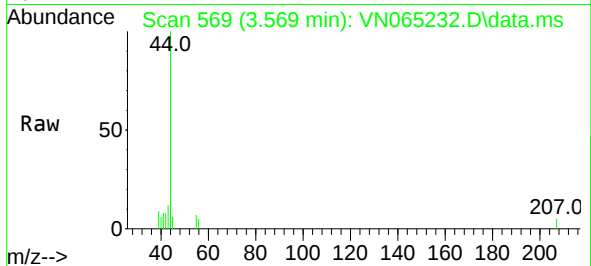




#13  
Acrolein  
Concen: 3.45 ug/l  
RT: 3.569 min Scan# 569  
Delta R.T. -0.004 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

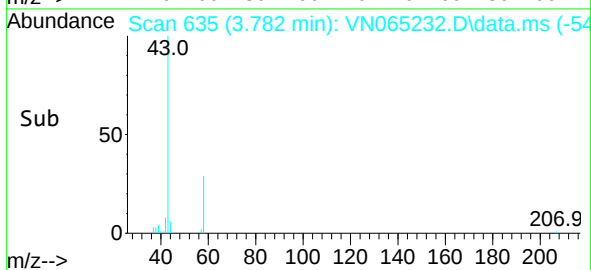
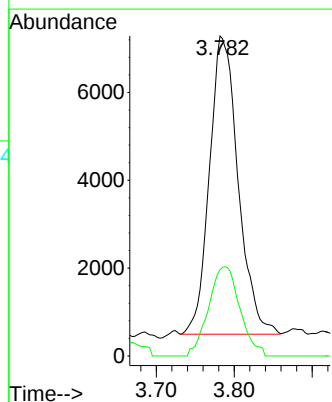
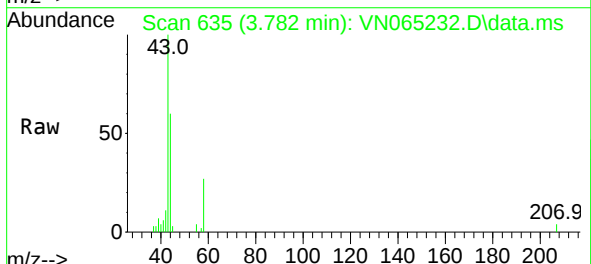
Instrument :  
MSVOA\_N  
ClientSampled :  
PB133762TB

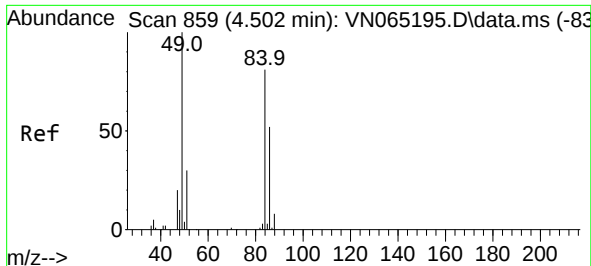
Tgt Ion: 56 Resp: 313  
Ion Ratio Lower Upper  
56 100  
55 50.8 56.5 84.7#



#16  
Acetone  
Concen: 4.84 ug/l  
RT: 3.782 min Scan# 635  
Delta R.T. -0.003 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

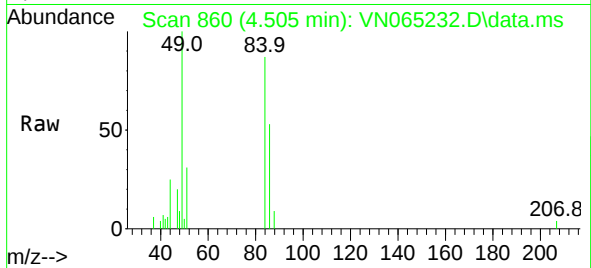
Tgt Ion: 43 Resp: 17381  
Ion Ratio Lower Upper  
43 100  
58 28.9 25.7 38.5



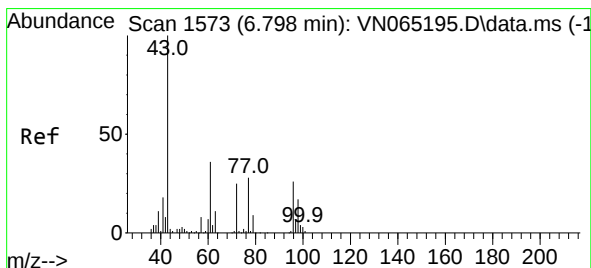
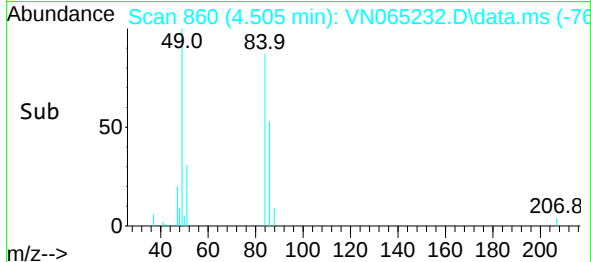
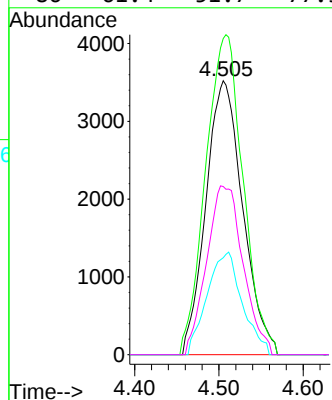


#20  
Methylene Chloride  
Concen: 4.08 ug/l  
RT: 4.505 min Scan# 860  
Delta R.T. 0.003 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762TB

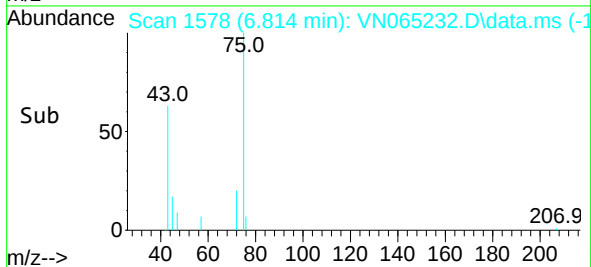
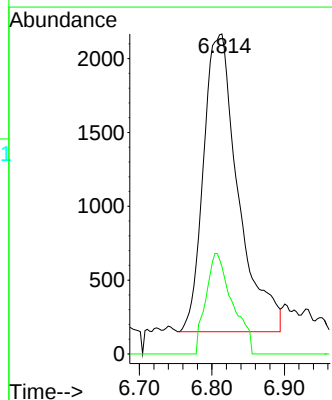
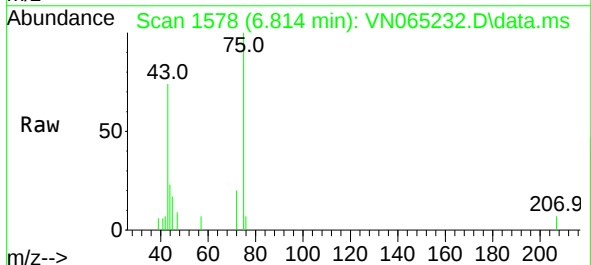


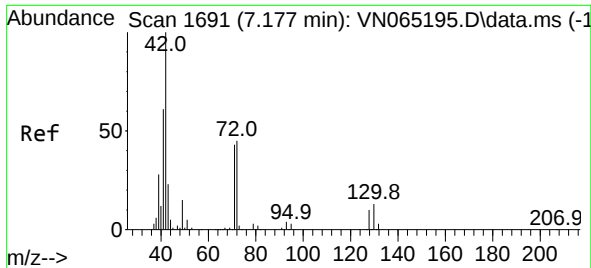
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 10710 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.4 | 93.4  | 140.0 |
| 51       | 35.4  | 28.2  | 42.4  |
| 86       | 61.4  | 51.7  | 77.5  |



#25  
2-Butanone  
Concen: 4.43 ug/l  
RT: 6.814 min Scan# 1578  
Delta R.T. 0.016 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 6697  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 29.3  | 21.0  | 31.6  |





#29

Tetrahydrofuran

Concen: 0.63 ug/l

RT: 7.183 min Scan# 1693

Delta R.T. 0.006 min

Lab File: VN065232.D

Acq: 23 Dec 2020 14:00

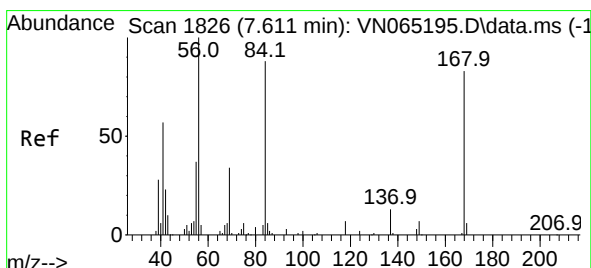
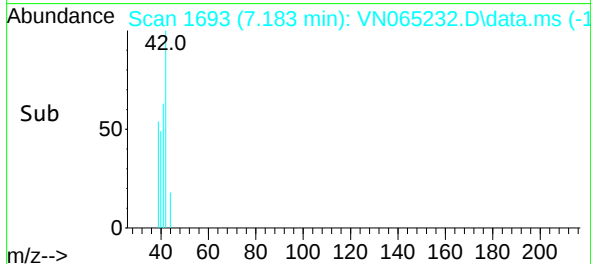
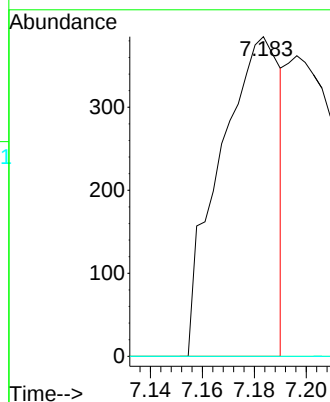
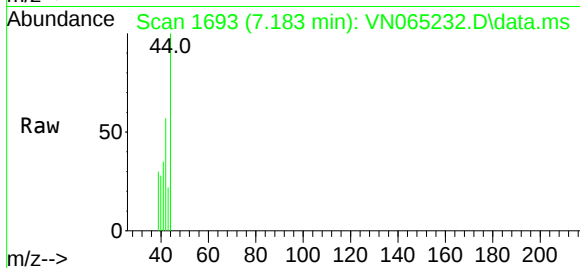
Instrument :

MSVOA\_N

ClientSampleId :

PB133762TB

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 613   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 36.6  | 54.8# |
| 71       | 0.0   | 33.6  | 50.4# |



#31

Cyclohexane

Concen: 1.09 ug/l

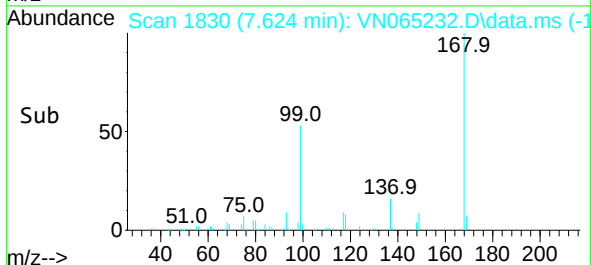
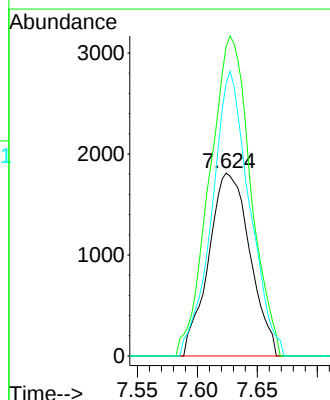
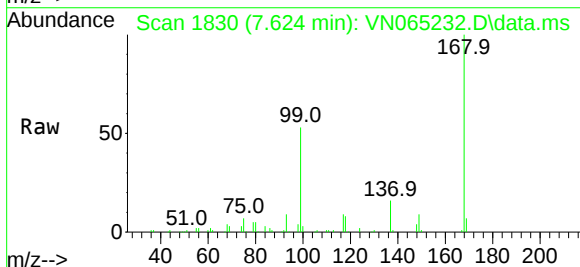
RT: 7.624 min Scan# 1830

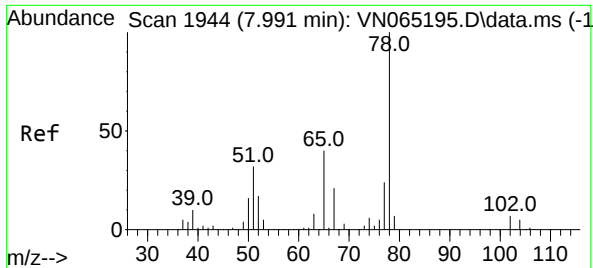
Delta R.T. 0.013 min

Lab File: VN065232.D

Acq: 23 Dec 2020 14:00

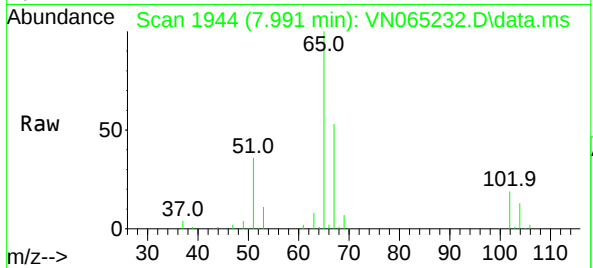
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4331   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 169.2 | 27.5  | 41.3#  |
| 84       | 149.3 | 73.9  | 110.9# |



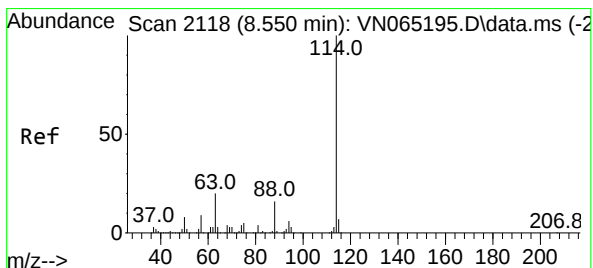
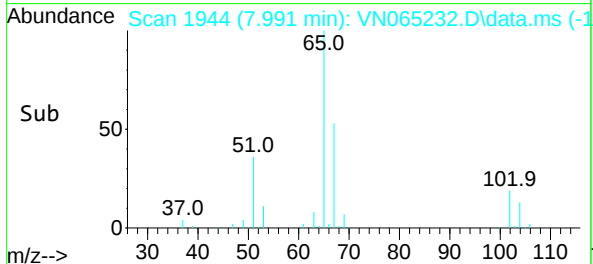
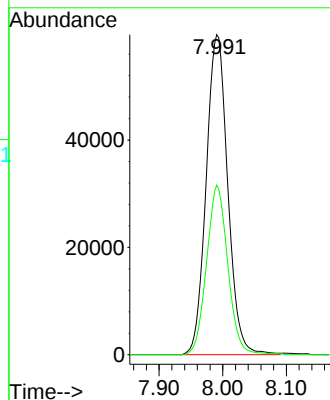


#33  
1,2-Dichloroethane-d4  
Concen: 52.25 ug/l  
RT: 7.991 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Instrument :  
MSVOA\_N  
ClientSampled :  
PB133762TB

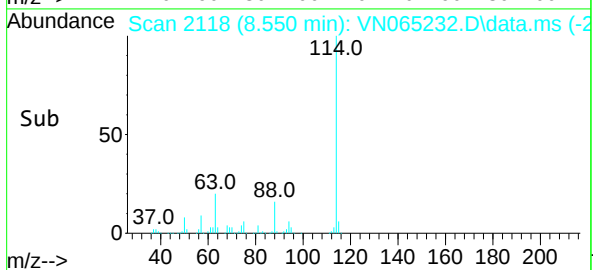
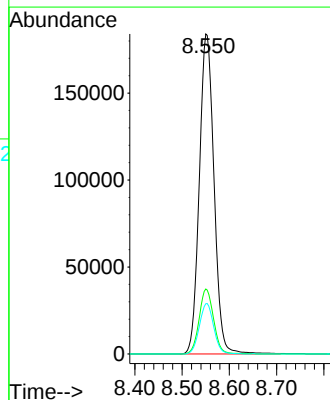
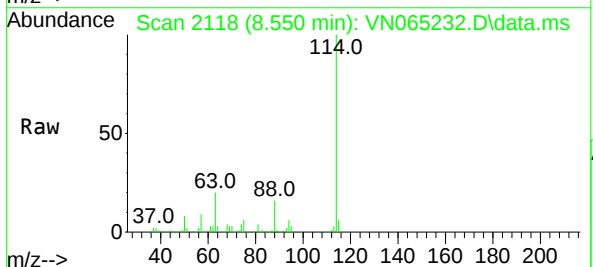


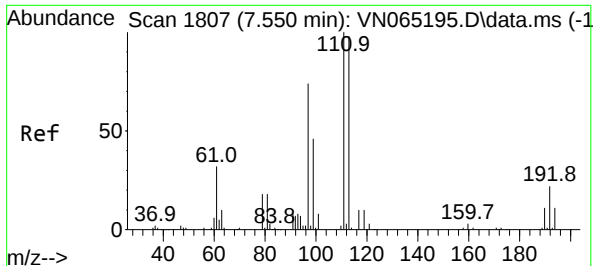
Tgt Ion: 65 Resp: 140654  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 108.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. -0.000 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion: 114 Resp: 397377  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 38.6  
88 15.7 0.0 32.6

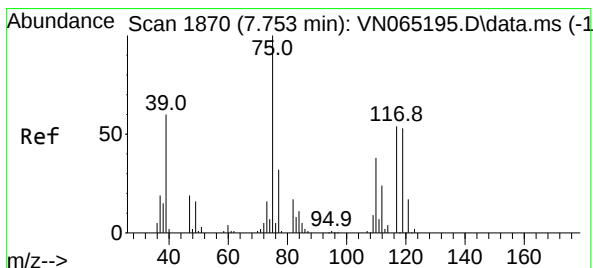
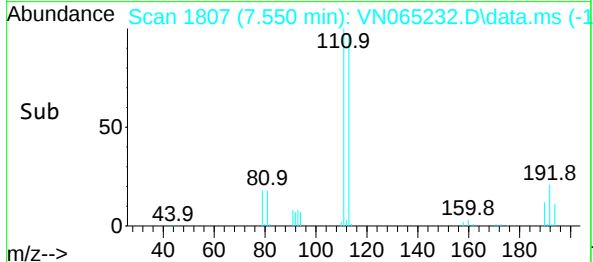
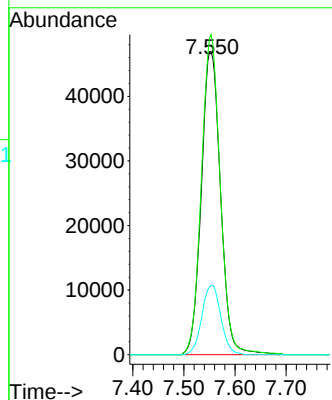
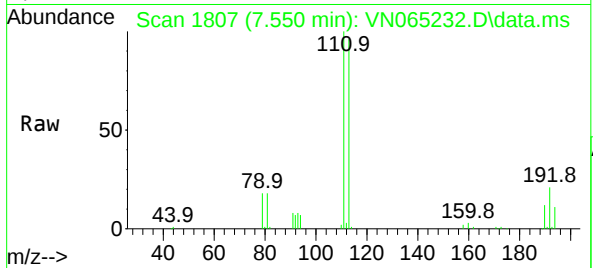




#35  
Dibromofluoromethane  
Concen: 51.25 ug/l  
RT: 7.550 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

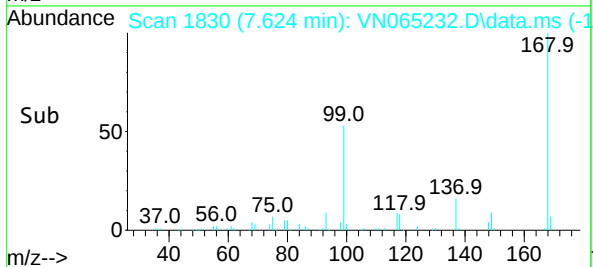
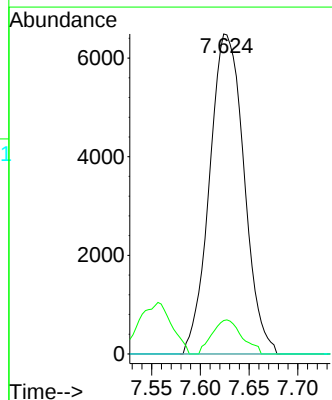
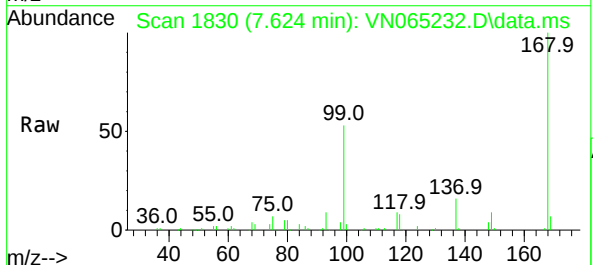
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762TB

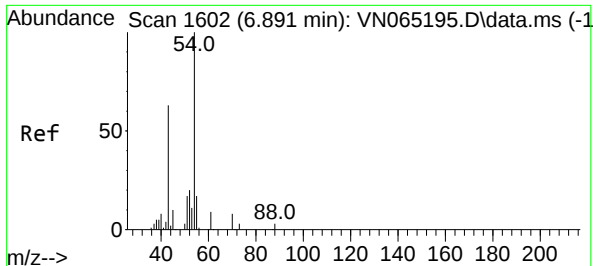
Tgt Ion:113 Resp: 122868  
Ion Ratio Lower Upper  
113 100  
111 103.2 81.6 122.4  
192 22.6 16.2 24.2



#36  
1,1-Dichloropropene  
Concen: 4.42 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. -0.129 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

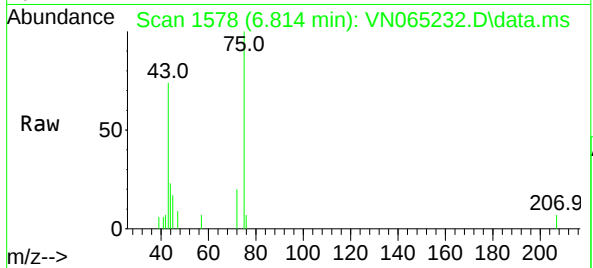
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Ion Ratio Lower Upper  
75 100  
110 9.2 17.8 53.3#  
77 0.0 25.0 37.4#



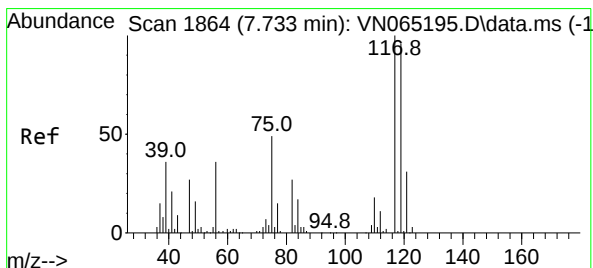
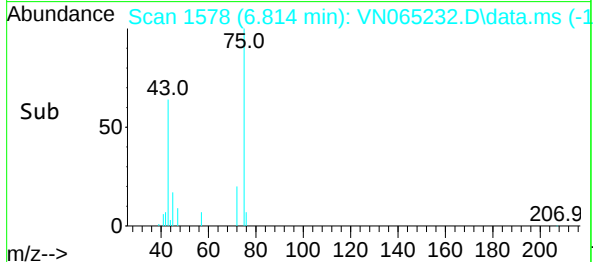
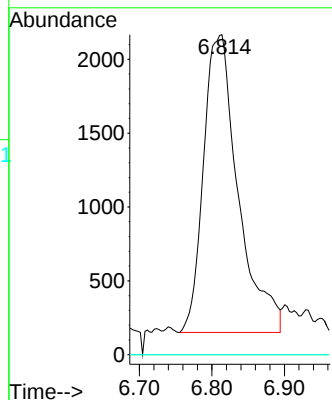


#37  
Ethyl Acetate  
Concen: 1.87 ug/l  
RT: 6.814 min Scan# 1578  
Delta R.T. -0.077 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Instrument :  
MSVOA\_N  
ClientSampled :  
PB133762TB

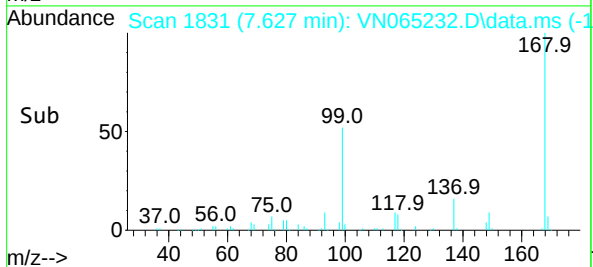
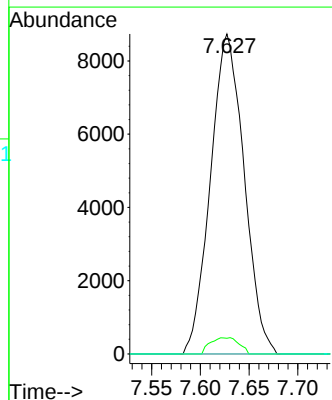
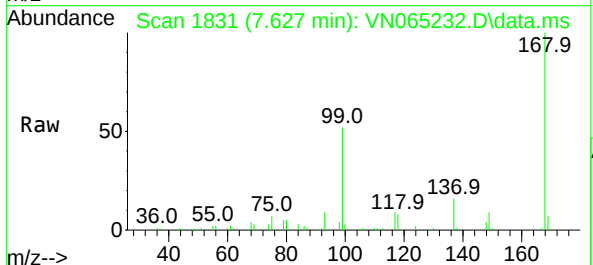


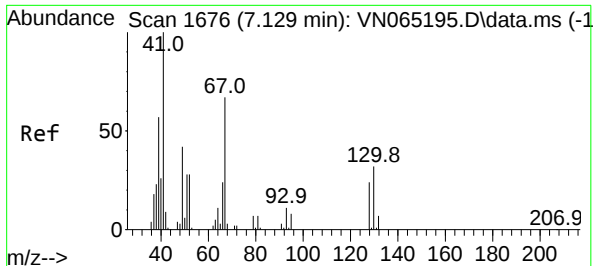
Tgt Ion: 43 Resp: 6697  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.8 19.2#  
70 0.0 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 5.53 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.106 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

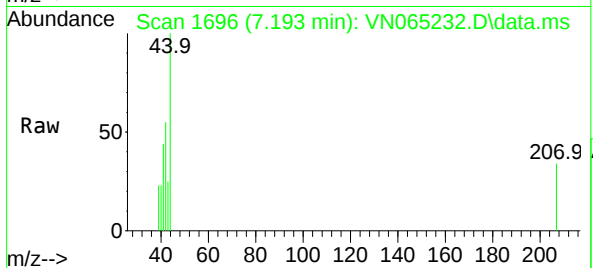
Tgt Ion: 117 Resp: 20974  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.7 115.1#  
121 0.0 25.4 38.2#



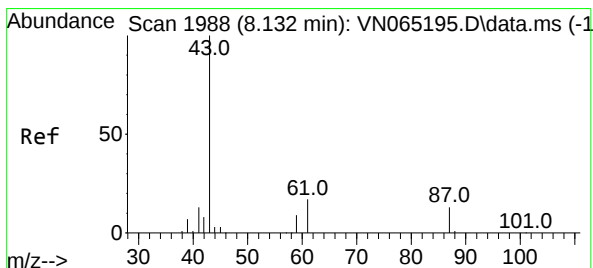
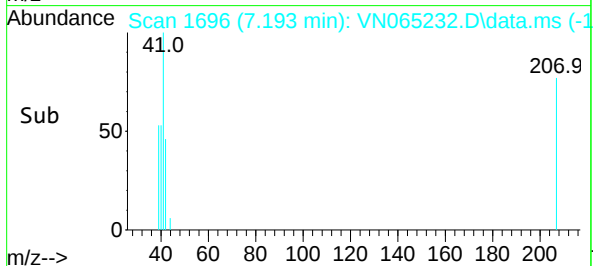
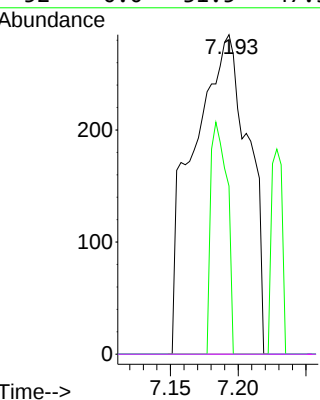


#41  
Methacrylonitrile  
Concen: 0.43 ug/l  
RT: 7.193 min Scan# 1696  
Delta R.T. 0.064 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762TB

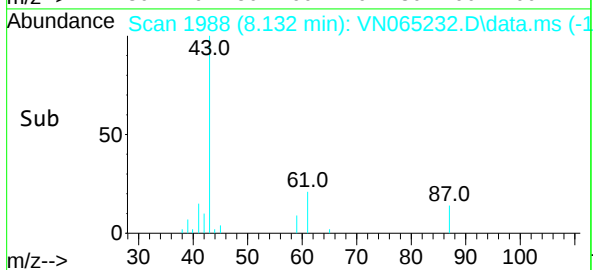
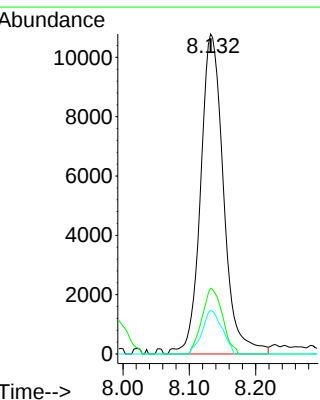
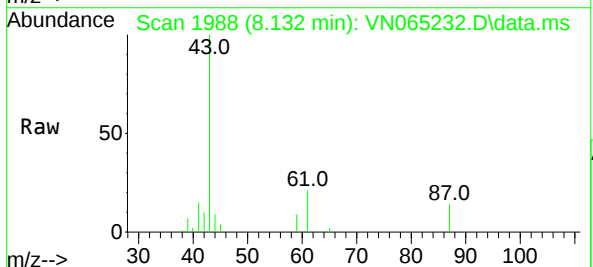


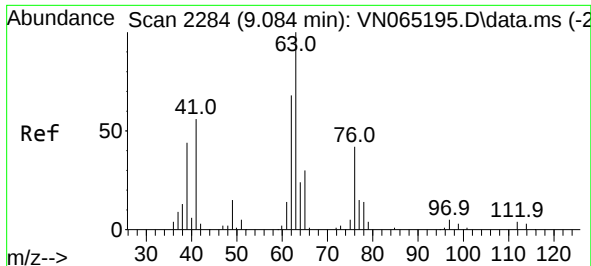
|             |                 |
|-------------|-----------------|
| Tgt Ion: 41 | Resp: 809       |
| Ion Ratio   | Lower Upper     |
| 41          | 100             |
| 39          | 21.4 51.0 76.6# |
| 67          | 0.0 79.8 119.8# |
| 52          | 0.0 31.5 47.3#  |



#43  
Isopropyl Acetate  
Concen: 4.20 ug/l  
RT: 8.132 min Scan# 1988  
Delta R.T. 0.000 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 25930    |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 61          | 18.2 17.2 25.8 |
| 87          | 11.8 11.4 17.0 |

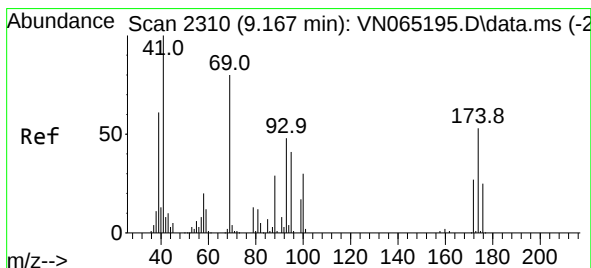
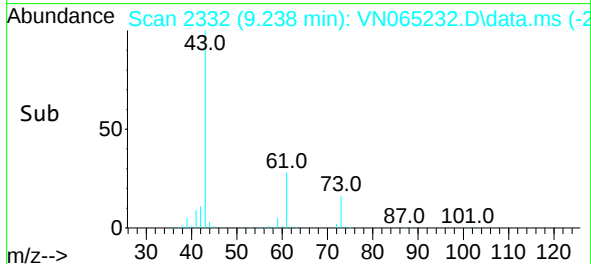
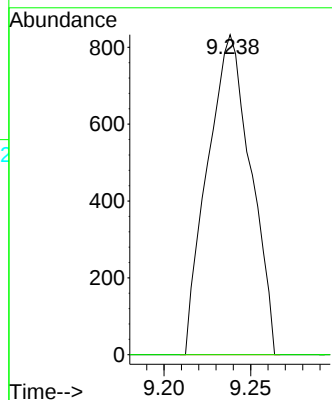
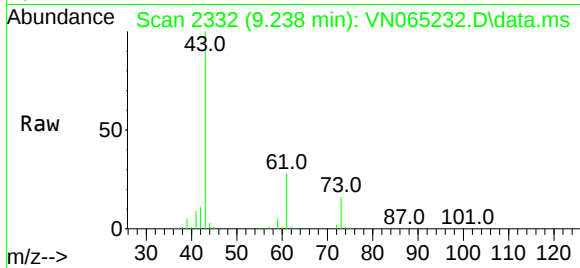




#45  
1,2-Dichloropropane  
Concen: 0.52 ug/l  
RT: 9.238 min Scan# 2332  
Delta R.T. 0.154 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

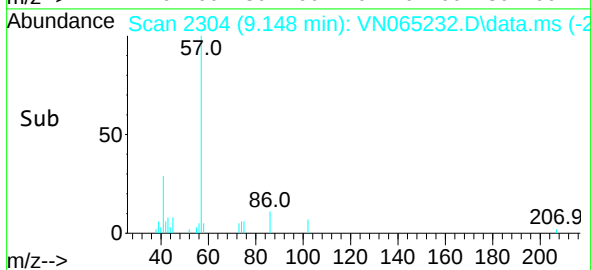
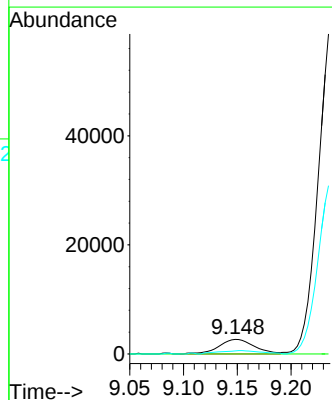
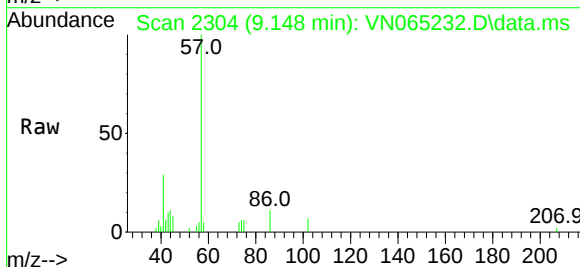
Instrument :  
MSVOA\_N  
ClientSampled :  
PB133762TB

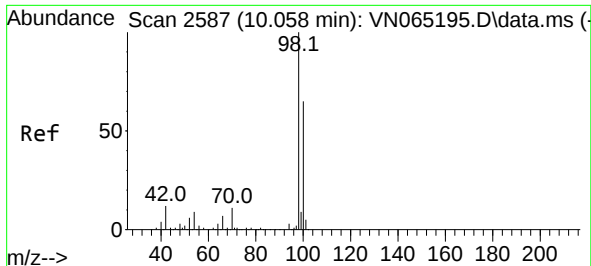
Tgt Ion: 63 Resp: 1447  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.0 37.4#



#48  
Methyl methacrylate  
Concen: 2.06 ug/l  
RT: 9.148 min Scan# 2304  
Delta R.T. -0.019 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion: 41 Resp: 6161  
Ion Ratio Lower Upper  
41 100  
69 0.0 71.8 107.8#  
39 0.0 44.1 66.1#

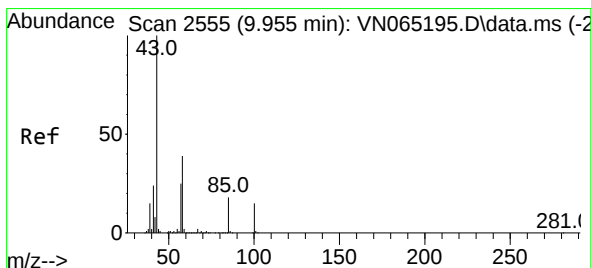
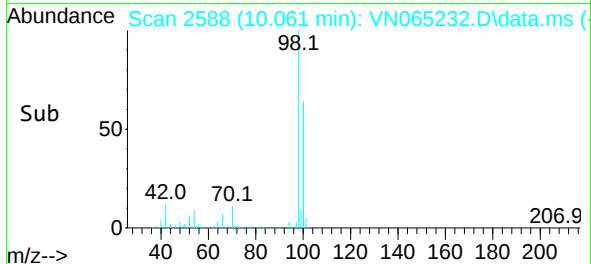
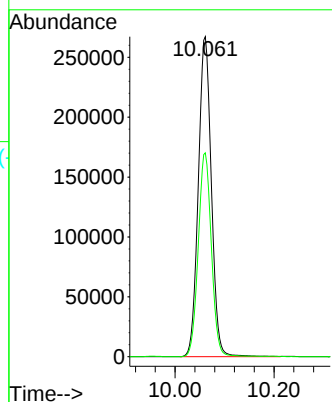
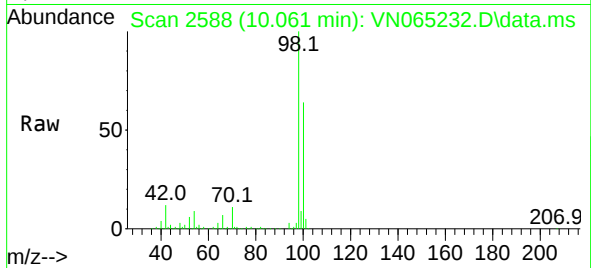




#50  
Toluene-d8  
Concen: 54.70 ug/l  
RT: 10.061 min Scan# 2588  
Delta R.T. 0.003 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

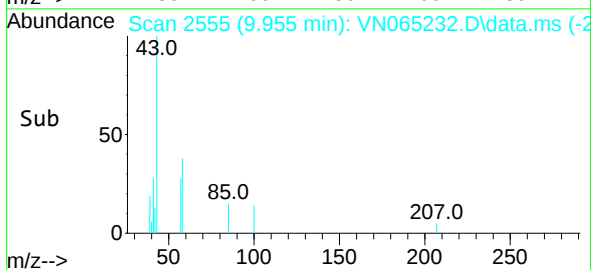
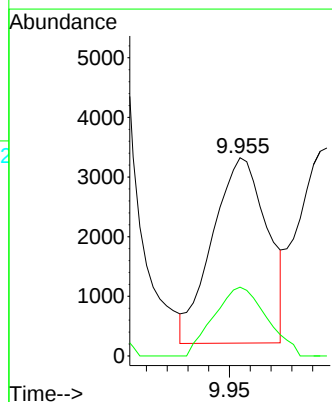
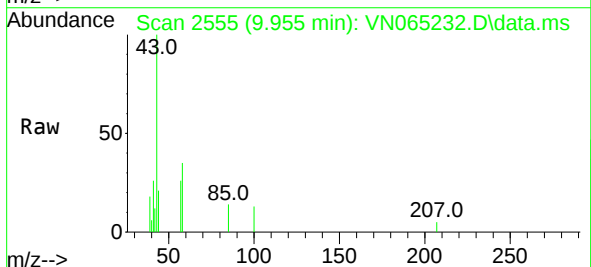
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762TB

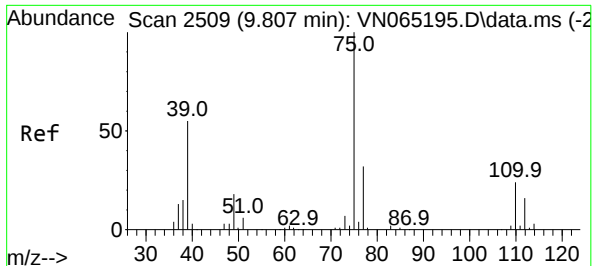
Tgt Ion: 98 Resp: 491536  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 1.64 ug/l  
RT: 9.955 min Scan# 2555  
Delta R.T. 0.000 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion: 43 Resp: 5705  
Ion Ratio Lower Upper  
43 100  
58 35.8 32.4 48.6

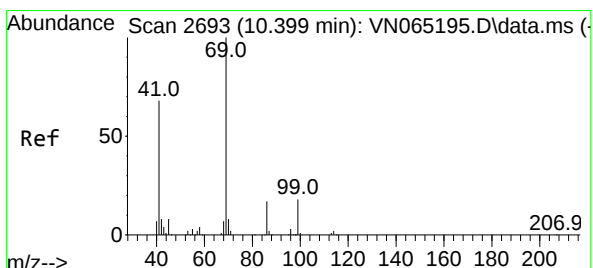
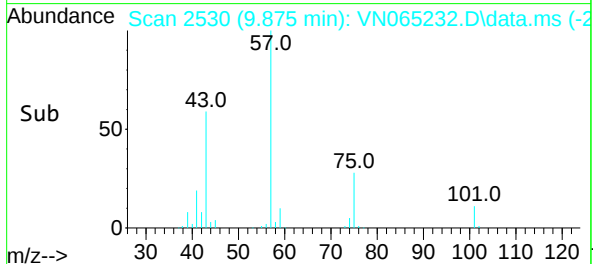
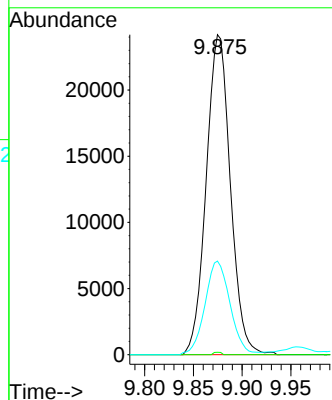
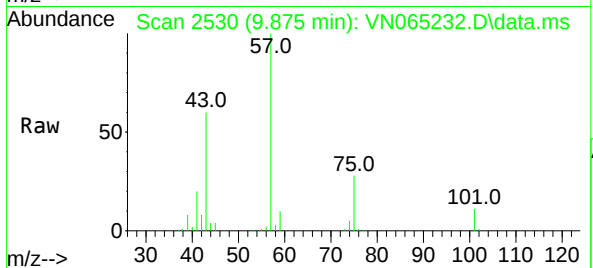




#54  
cis-1,3-Dichloropropene  
Concen: 8.70 ug/l  
RT: 9.875 min Scan# 2530  
Delta R.T. 0.068 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

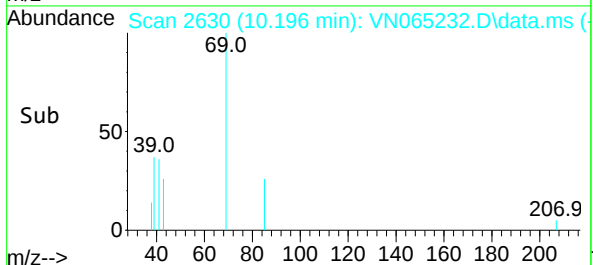
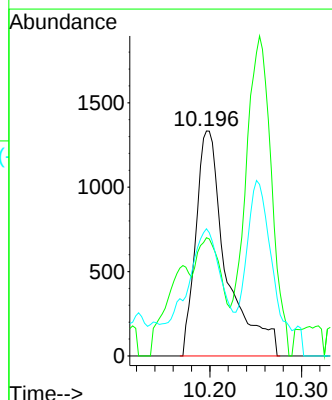
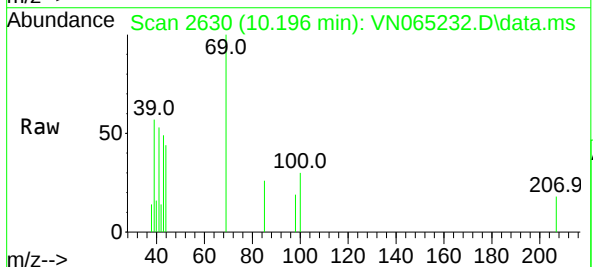
Instrument :  
MSVOA\_N  
ClientSampleId :  
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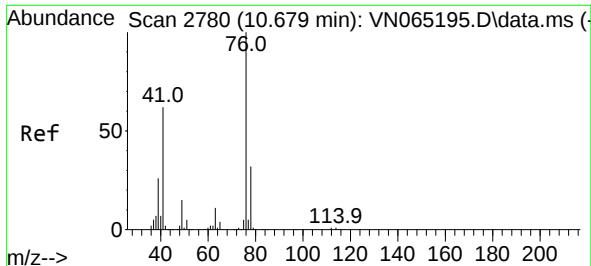
Tgt Ion: 75 Resp: 41699  
Ion Ratio Lower Upper  
75 100  
77 0.8 25.5 38.3#  
39 29.2 35.6 53.4#



#56  
Ethyl methacrylate  
Concen: 0.74 ug/l  
RT: 10.196 min Scan# 2630  
Delta R.T. -0.203 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion: 69 Resp: 3081  
Ion Ratio Lower Upper  
69 100  
41 44.8 49.4 74.0#  
39 40.2 25.9 38.9#

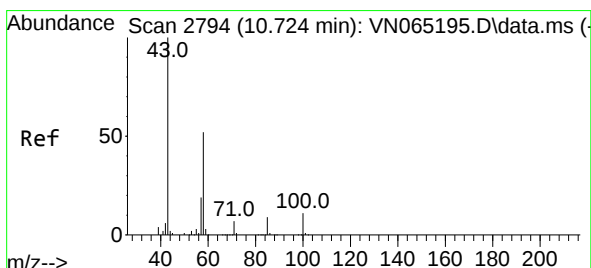
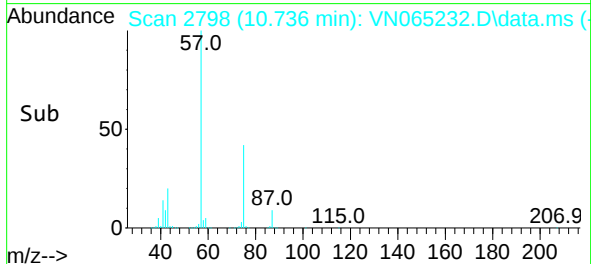
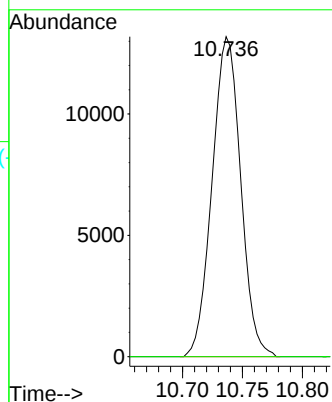
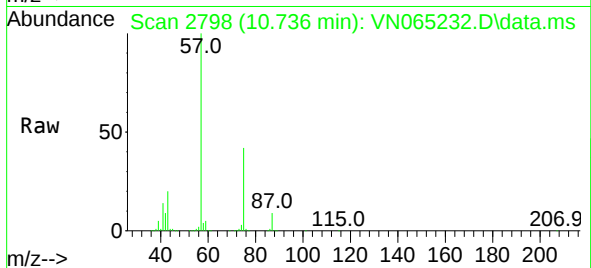




#57  
1,3-Dichloropropane  
Concen: 4.93 ug/l  
RT: 10.736 min Scan# 2798  
Delta R.T. 0.057 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

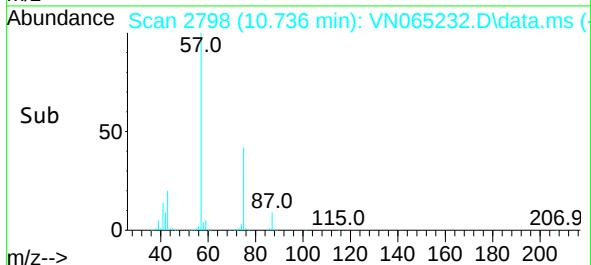
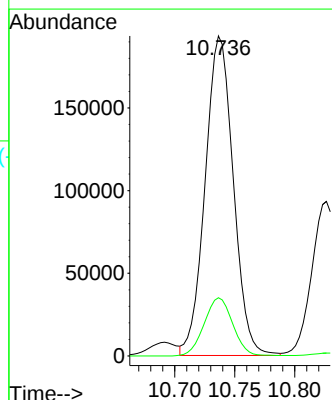
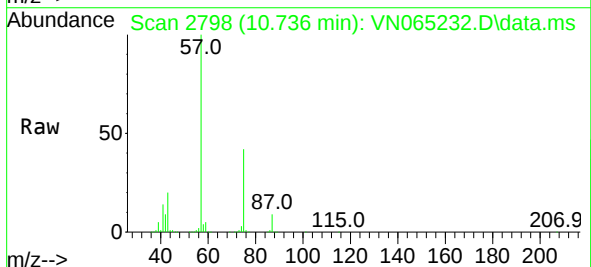
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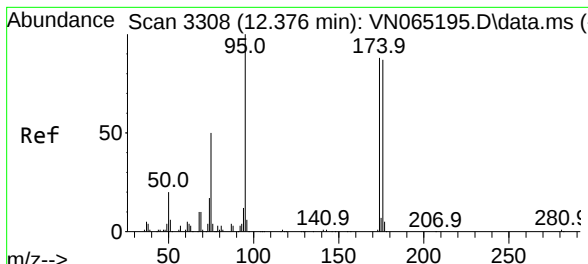
Tgt Ion: 76 Resp: 21821  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#



#59  
2-Hexanone  
Concen: 123.84 ug/l  
RT: 10.736 min Scan# 2798  
Delta R.T. 0.012 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion: 43 Resp: 315948  
Ion Ratio Lower Upper  
43 100  
58 18.6 28.3 84.9#

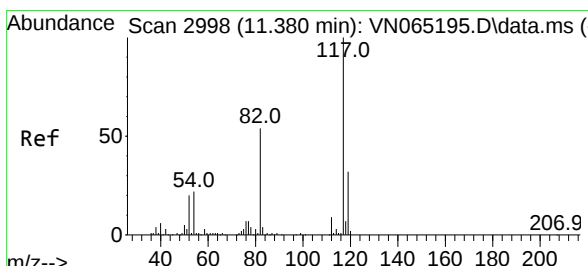
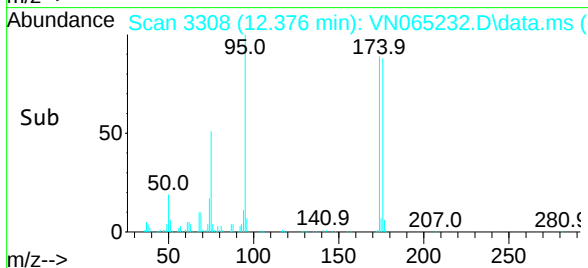
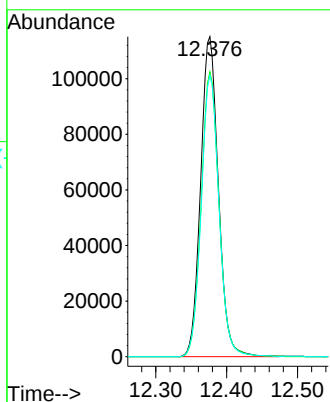
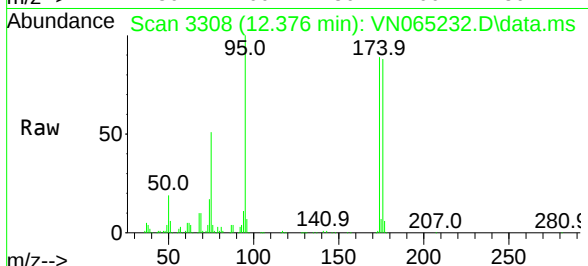




#62  
 4-Bromofluorobenzene  
 Concen: 55.80 ug/l  
 RT: 12.376 min Scan# 3308  
 Delta R.T. 0.000 min  
 Lab File: VN065232.D  
 Acq: 23 Dec 2020 14:00

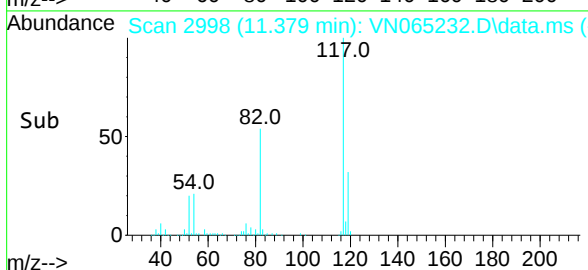
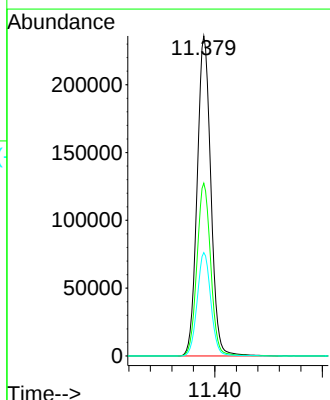
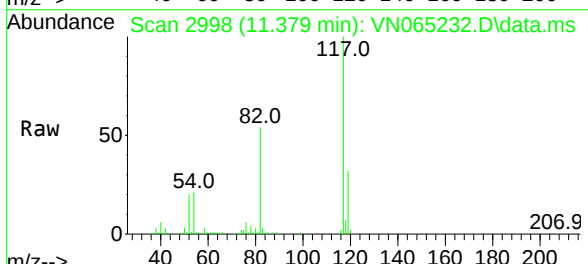
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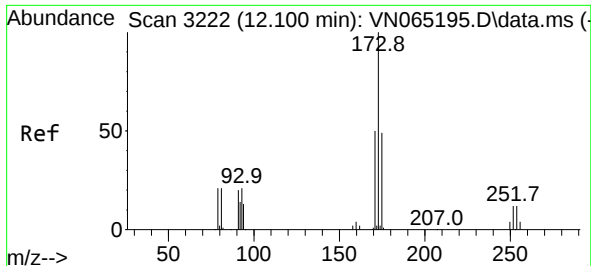
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 200642 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 89.2  | 0.0   | 160.4  |
| 176       | 87.9  | 0.0   | 158.4  |



#63  
 Chlorobenzene-d5  
 Concen: 50.00 ug/l  
 RT: 11.379 min Scan# 2998  
 Delta R.T. -0.001 min  
 Lab File: VN065232.D  
 Acq: 23 Dec 2020 14:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 415928 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 54.0  | 44.2  | 66.2   |
| 119       | 32.3  | 25.8  | 38.6   |

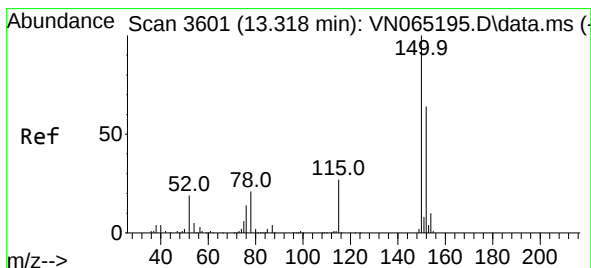
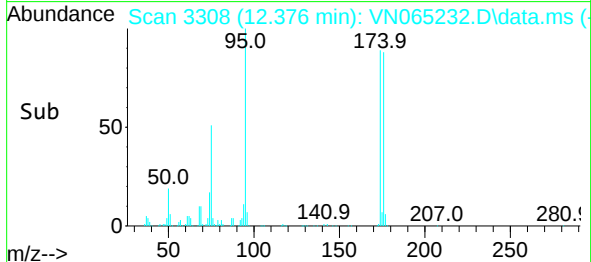
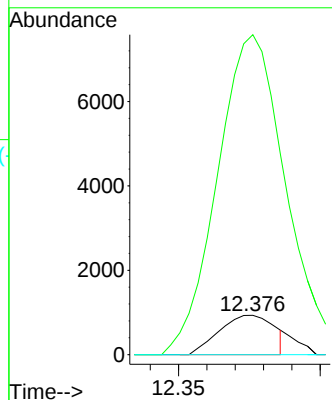
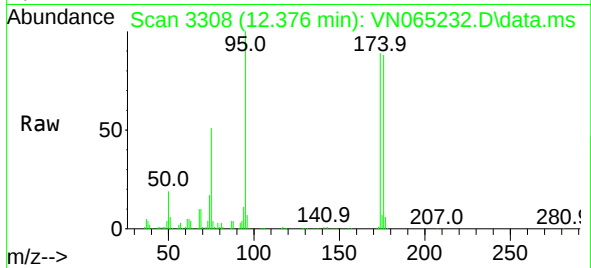




#71  
Bromoform  
Concen: 0.44 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.276 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

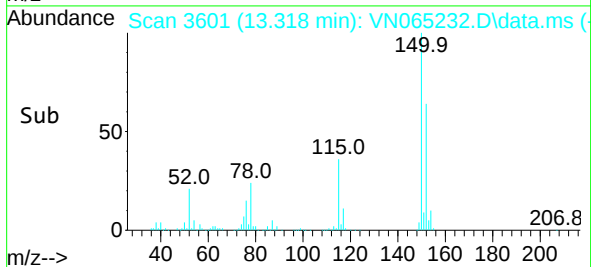
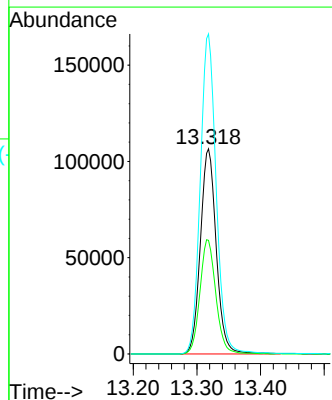
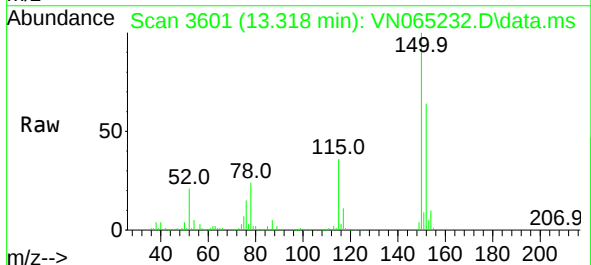
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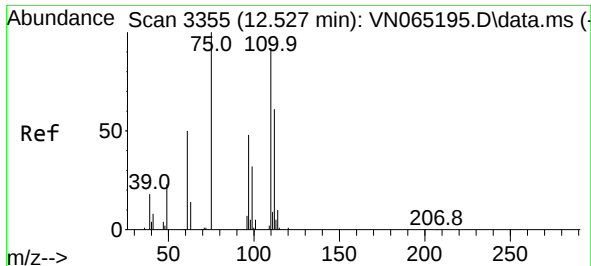
Tgt Ion:173 Resp: 1260  
Ion Ratio Lower Upper  
173 100  
175 848.9 24.3 72.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion:152 Resp: 184700  
Ion Ratio Lower Upper  
152 100  
115 55.9 29.7 89.1  
150 156.0 0.0 350.6

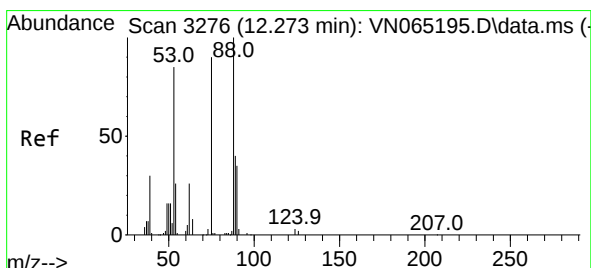
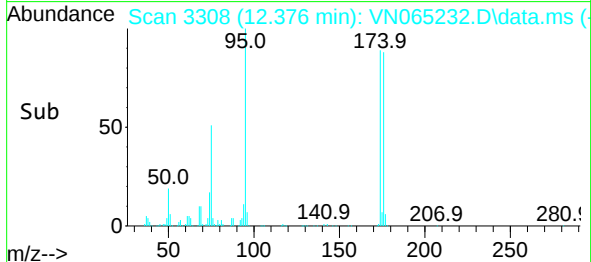
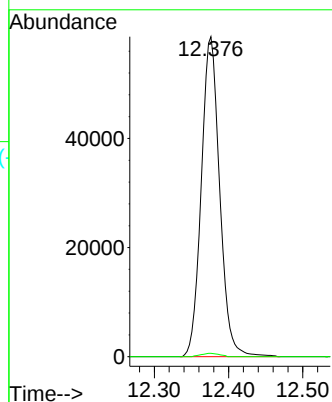
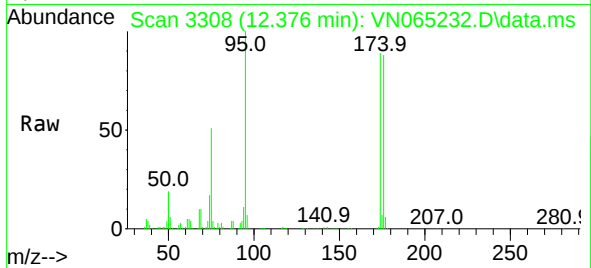




#76  
1,2,3-Trichloropropane  
Concen: 26.76 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. -0.151 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762TB

Tgt Ion: 75 Resp: 100853  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.49 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.103 min  
Lab File: VN065232.D  
Acq: 23 Dec 2020 14:00

Tgt Ion: 75 Resp: 100853  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.0 100.4#  
89 0.0 39.6 59.4#

