

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122320\  
 Data File : VN065238.D  
 Acq On : 23 Dec 2020 16:28  
 Operator : JC/MD  
 Sample : PB133762ZHE#06  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB133762ZHE#06

Quant Time: Dec 24 04:22:03 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

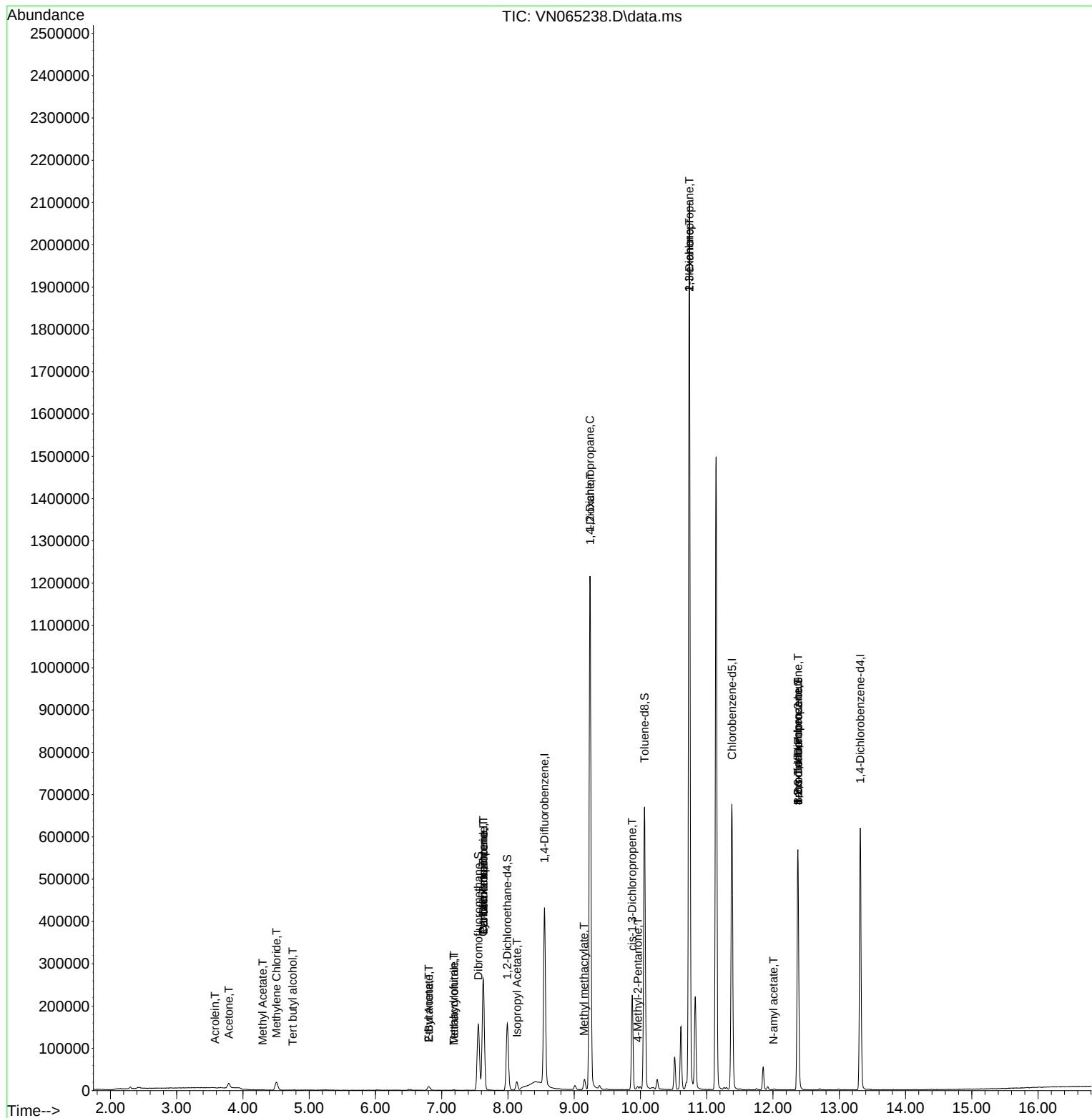
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 7.627          | 168  | 233885             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550          | 114  | 388225             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.379         | 117  | 407517             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318         | 152  | 181641             | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.990          | 65   | 138706             | 52.53  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 105.06% |        |        |          |
| 35) Dibromofluoromethane      | 7.553          | 113  | 121176             | 51.74  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 103.48% |        |        |          |
| 50) Toluene-d8                | 10.061         | 98   | 476684             | 54.30  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 108.60% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.376         | 95   | 195762             | 55.73  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 111.46% |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        | Qvalue |          |
| 11) Tert butyl alcohol        | 4.753          | 59   | 424                | 0.98   | ug/l # | 73       |
| 13) Acrolein                  | 3.576          | 56   | 130                | 2.85   | ug/l # | 14       |
| 16) Acetone                   | 3.785          | 43   | 17070              | 4.86   | ug/l   | 90       |
| 18) Methyl Acetate            | 4.296          | 43   | 730                | 0.31   | ug/l # | 50       |
| 20) Methylene Chloride        | 4.505          | 84   | 14620              | 5.68   | ug/l   | 93       |
| 25) 2-Butanone                | 6.804          | 43   | 9074               | 6.12   | ug/l   | 100      |
| 29) Tetrahydrofuran           | 7.183          | 42   | 736                | 0.77   | ug/l # | 32       |
| 31) Cyclohexane               | 7.624          | 56   | 4238               | 1.09   | ug/l # | 3        |
| 36) 1,1-Dichloropropene       | 7.627          | 75   | 15366              | 4.35   | ug/l # | 50       |
| 37) Ethyl Acetate             | 6.804          | 43   | 9074               | 2.59   | ug/l # | 66       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 19785              | 5.34   | ug/l # | 16       |
| 41) Methacrylonitrile         | 7.187          | 41   | 517                | 0.28   | ug/l # | 34       |
| 43) Isopropyl Acetate         | 8.135          | 43   | 24081              | 3.99   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.238          | 63   | 1354               | 0.50   | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.148          | 41   | 6708               | 2.29   | ug/l # | 12       |
| 49) 1,4-Dioxane               | 9.241          | 88   | 59                 | 1.24   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 9.958          | 43   | 5200               | 1.53   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.875          | 75   | 40927              | 8.74   | ug/l # | 61       |
| 57) 1,3-Dichloropropane       | 10.736         | 76   | 21772              | 5.04   | ug/l # | 42       |
| 59) 2-Hexanone                | 10.736         | 43   | 312353             | 125.32 | ug/l # | 49       |
| 71) Bromoform                 | 12.376         | 173  | 1116               | 0.40   | ug/l # | 1        |
| 74) N-amyl acetate            | 12.010         | 43   | 1382               | 0.25   | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 12.376         | 75   | 99496              | 26.85  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.376         | 75   | 99496              | 67.70  | ug/l # | 15       |
| -----                         |                |      |                    |        |        |          |

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

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Sample : PB133762ZHE#06  
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ALS Vial : 18 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Tue Dec 22 15:42:18 2020  
Response via : Initial Calibration

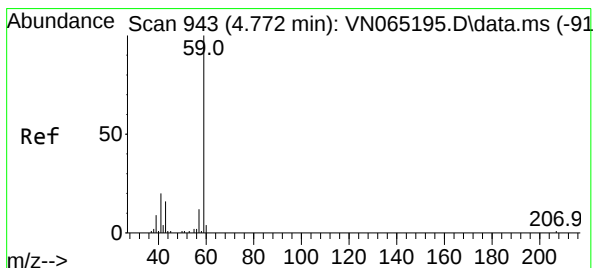
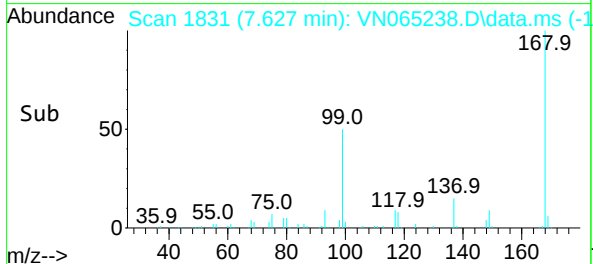
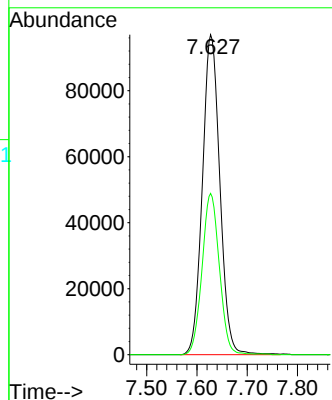
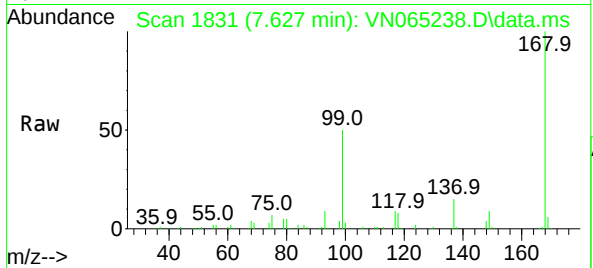




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.000 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

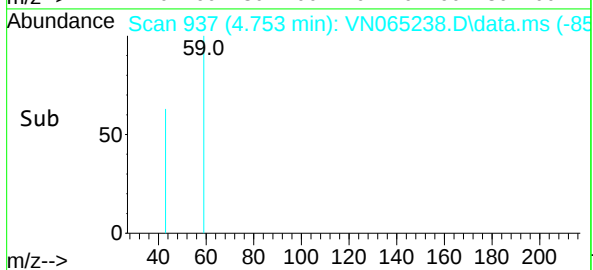
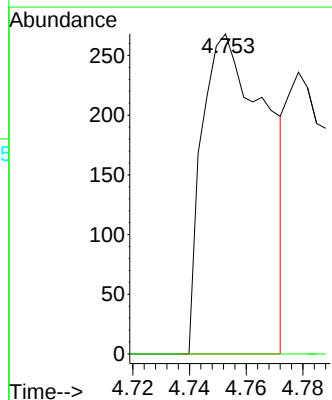
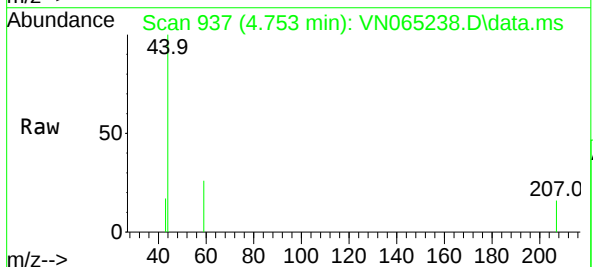
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

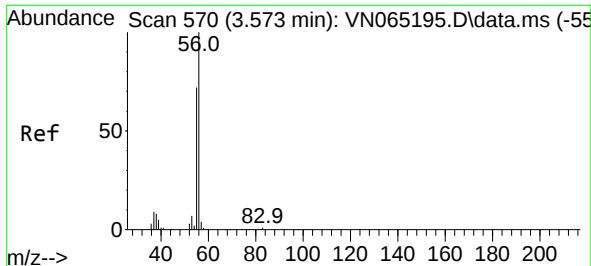
Tgt Ion:168 Resp: 233885  
Ion Ratio Lower Upper  
168 100  
99 50.4 43.0 64.4



#11  
Tert butyl alcohol  
Concen: 0.98 ug/l  
RT: 4.753 min Scan# 937  
Delta R.T. -0.019 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 59 Resp: 424  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#

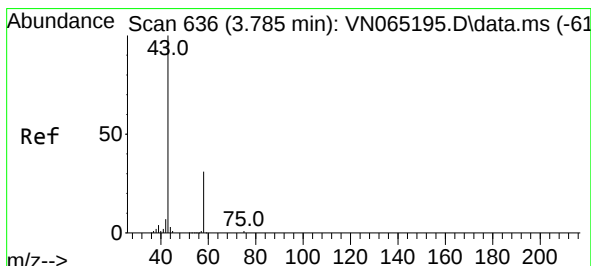
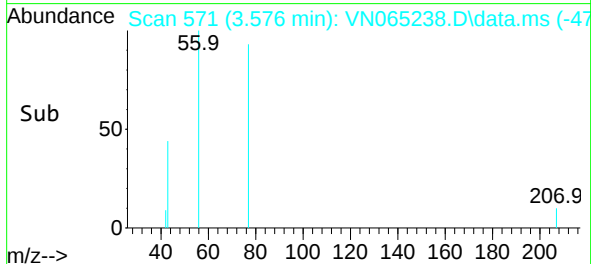
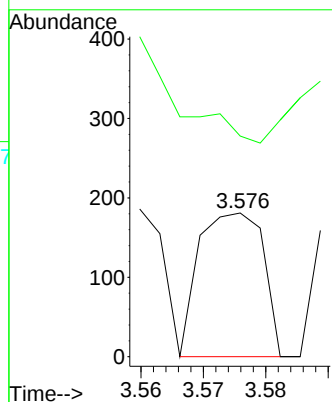
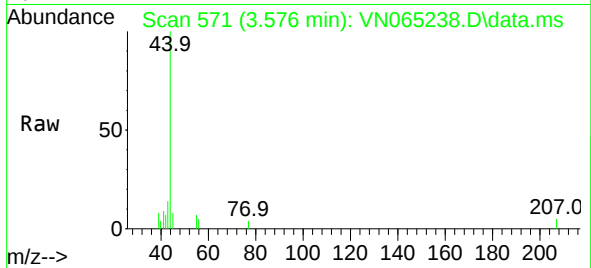




#13  
Acrolein  
Concen: 2.85 ug/l  
RT: 3.576 min Scan# 571  
Delta R.T. 0.003 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

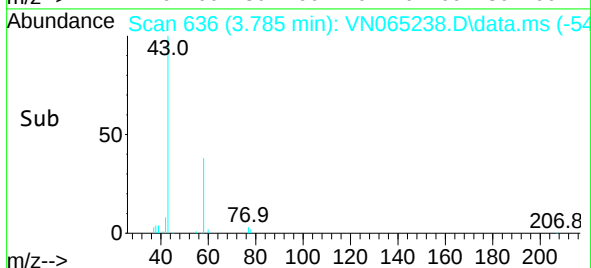
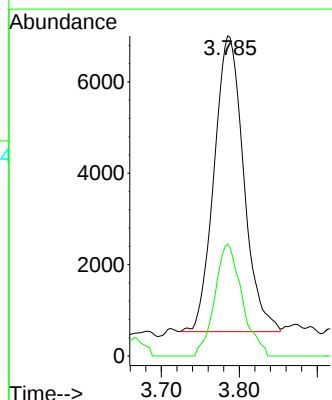
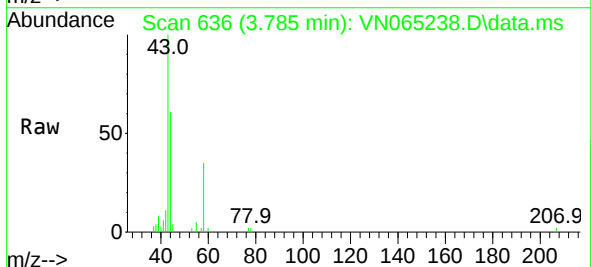
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

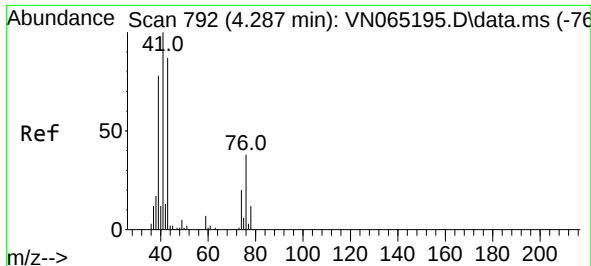
Tgt Ion: 56 Resp: 130  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.5 84.7#



#16  
Acetone  
Concen: 4.86 ug/l  
RT: 3.785 min Scan# 636  
Delta R.T. -0.000 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

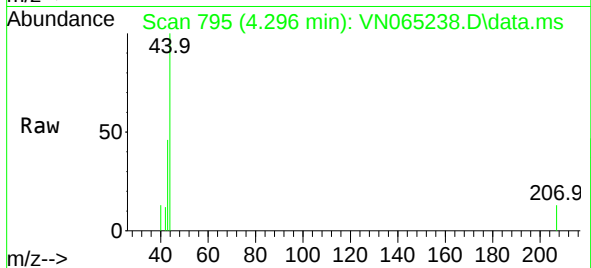
Tgt Ion: 43 Resp: 17070  
Ion Ratio Lower Upper  
43 100  
58 37.8 25.7 38.5



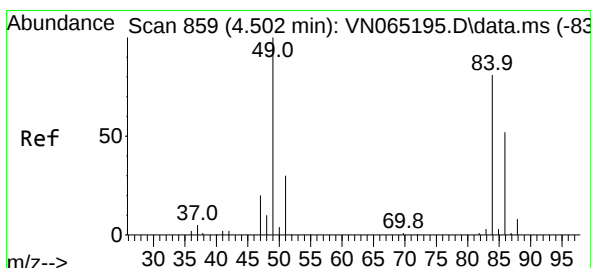
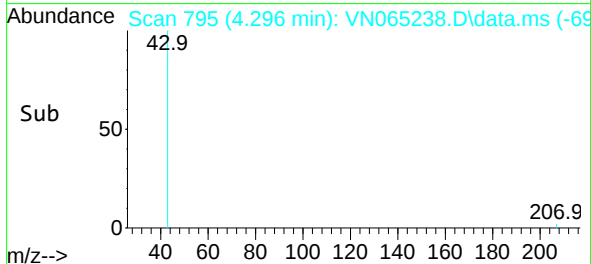
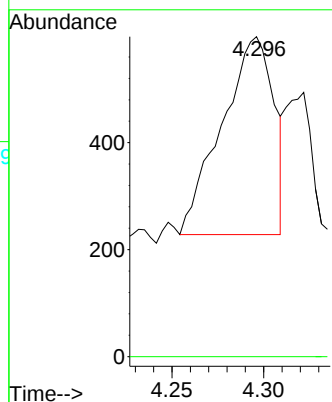


#18  
Methyl Acetate  
Concen: 0.31 ug/l  
RT: 4.296 min Scan# 795  
Delta R.T. 0.009 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

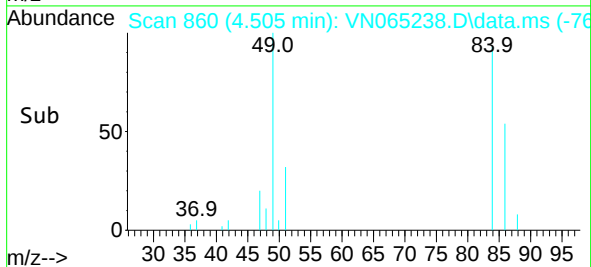
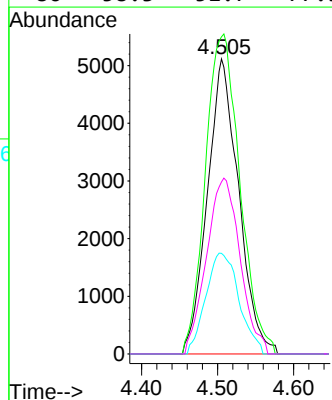
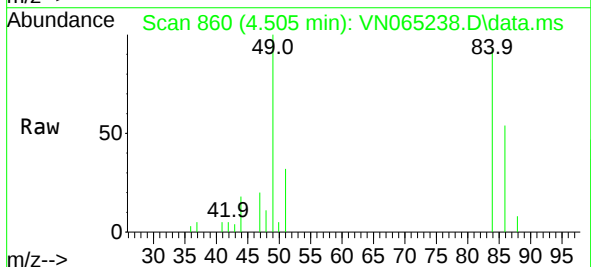


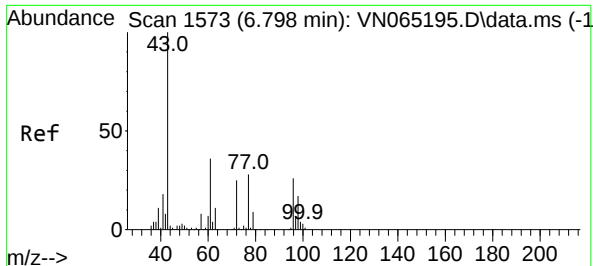
Tgt Ion: 43 Resp: 730  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.2#



#20  
Methylene Chloride  
Concen: 5.68 ug/l  
RT: 4.505 min Scan# 860  
Delta R.T. 0.003 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 84 Resp: 14620  
Ion Ratio Lower Upper  
84 100  
49 107.5 93.4 140.0  
51 34.1 28.2 42.4  
86 58.3 51.7 77.5

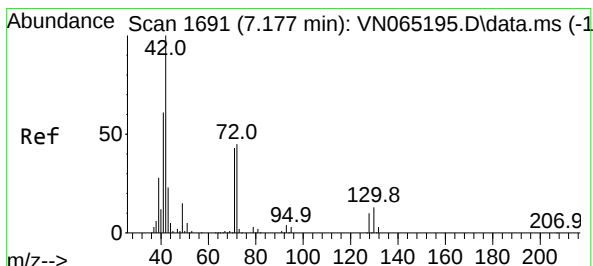
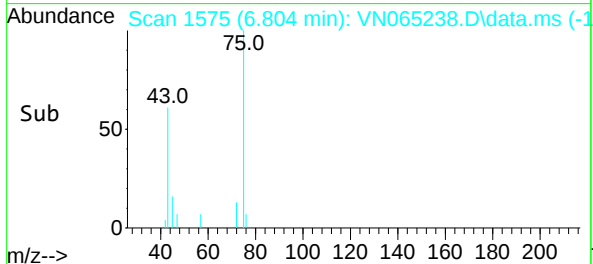
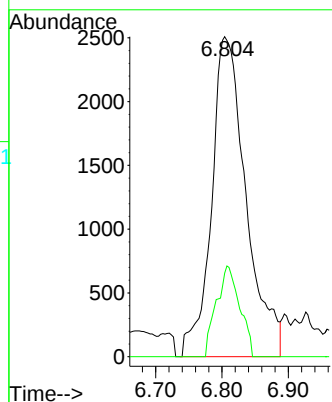
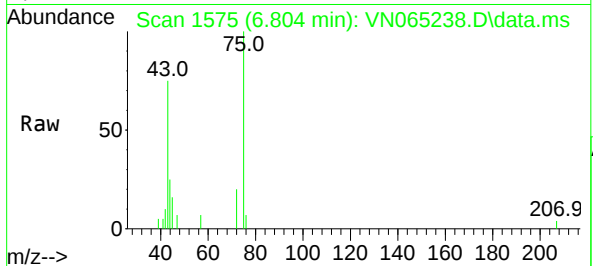




#25  
2-Butanone  
Concen: 6.12 ug/l  
RT: 6.804 min Scan# 1575  
Delta R.T. 0.006 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

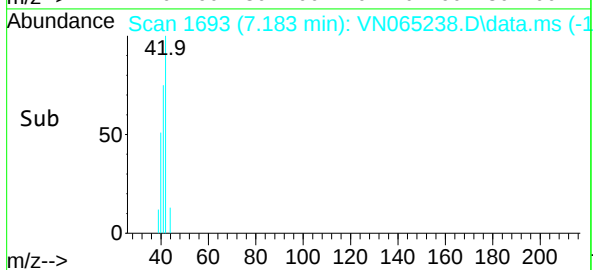
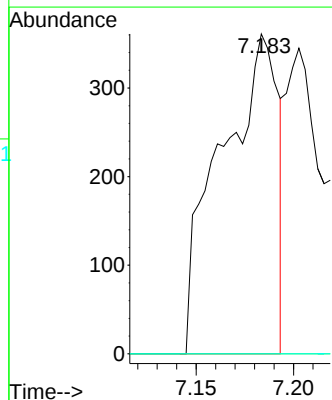
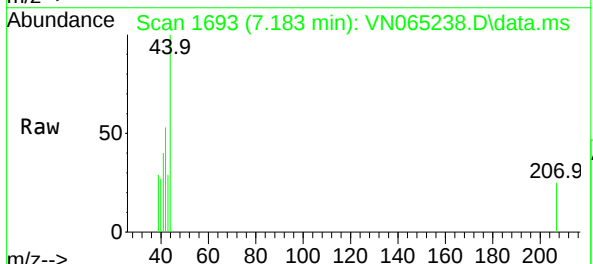
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

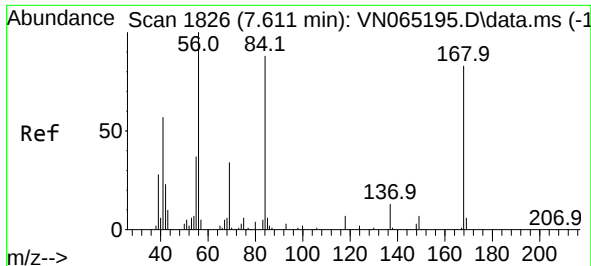
Tgt Ion: 43 Resp: 9074  
Ion Ratio Lower Upper  
43 100  
72 26.1 21.0 31.6



#29  
Tetrahydrofuran  
Concen: 0.77 ug/l  
RT: 7.183 min Scan# 1693  
Delta R.T. 0.006 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

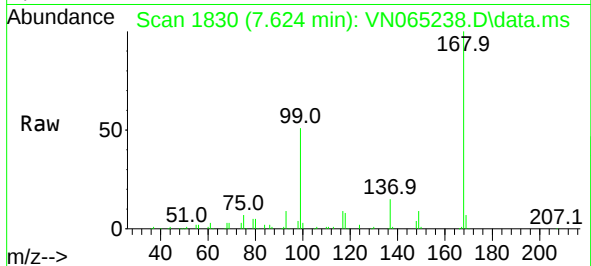
Tgt Ion: 42 Resp: 736  
Ion Ratio Lower Upper  
42 100  
72 0.0 36.6 54.8#  
71 0.0 33.6 50.4#



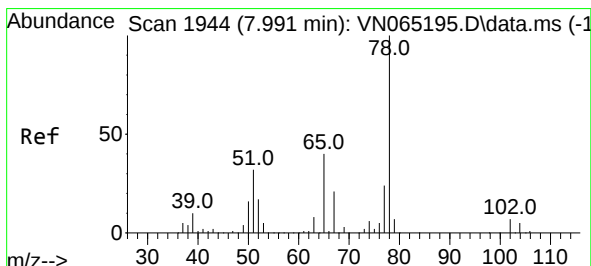
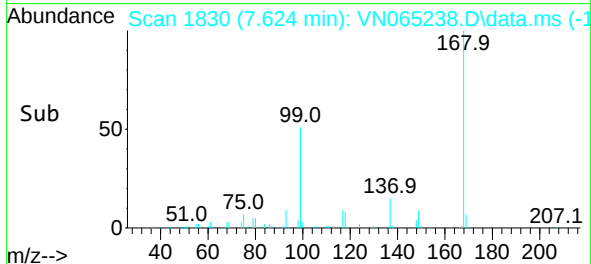
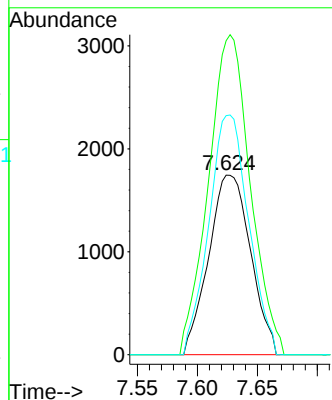


#31  
Cyclohexane  
Concen: 1.09 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. 0.013 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Instrument :  
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ClientSampleId :  
PB133762ZHE#06

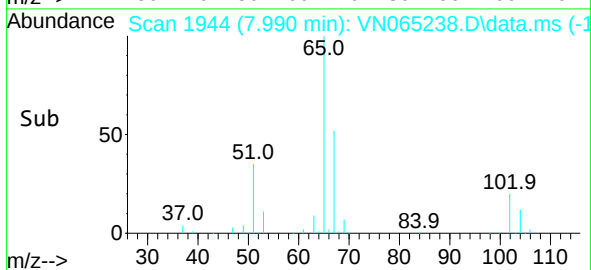
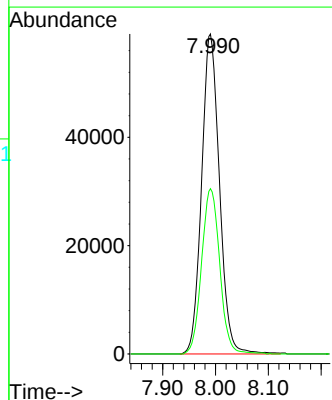
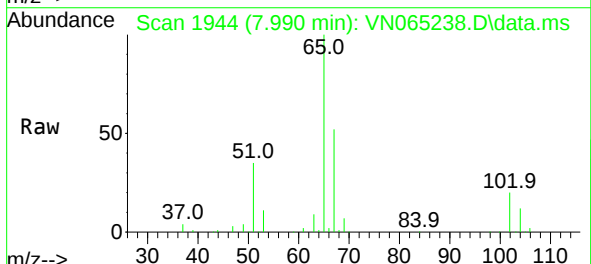


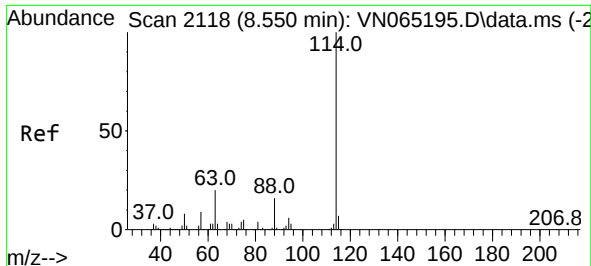
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Ion Ratio Lower Upper  
56 100  
69 174.9 27.5 41.3#  
84 133.1 73.9 110.9#



#33  
1,2-Dichloroethane-d4  
Concen: 52.53 ug/l  
RT: 7.990 min Scan# 1944  
Delta R.T. -0.001 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

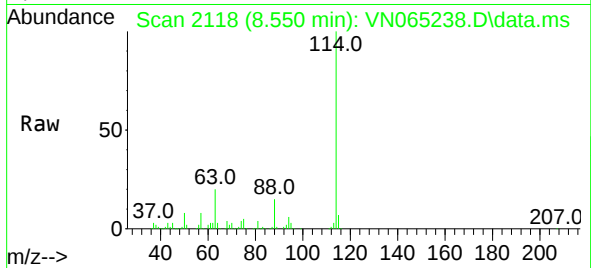
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Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 108.2



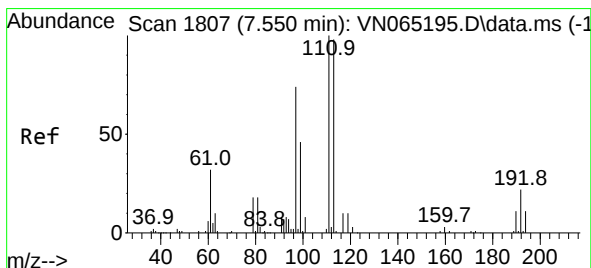
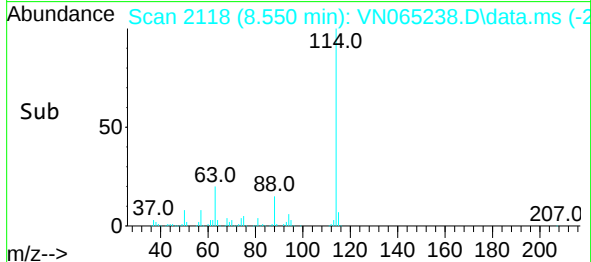
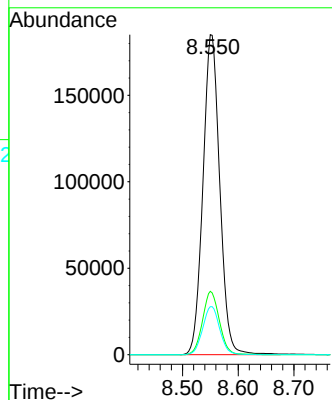


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. -0.000 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

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ClientSampleId :  
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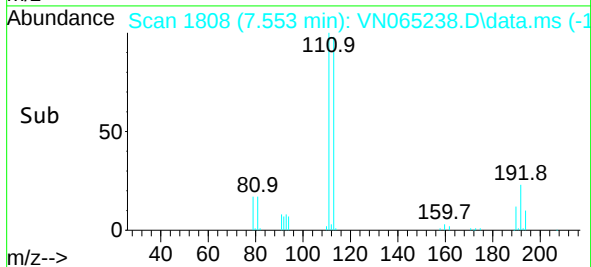
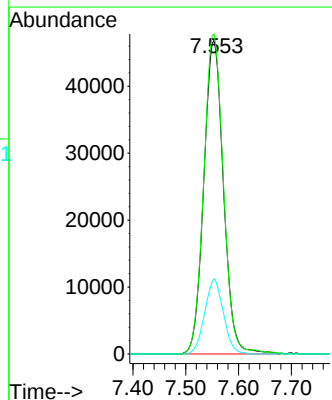
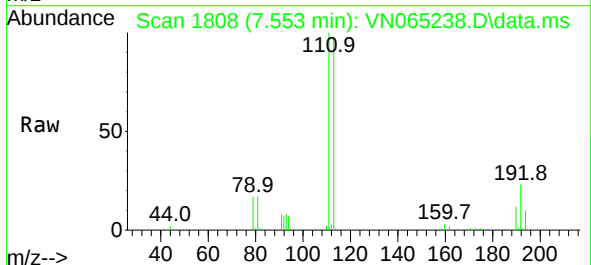


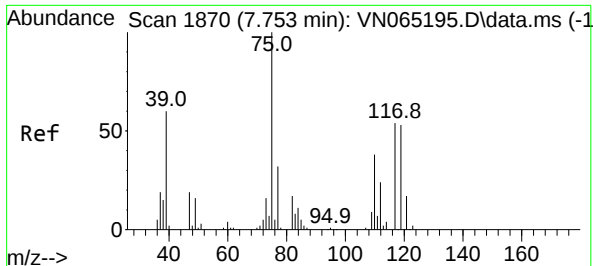
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|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 388225 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 19.8  | 0.0   | 38.6   |
| 88        | 15.0  | 0.0   | 32.6   |



#35  
Dibromofluoromethane  
Concen: 51.74 ug/l  
RT: 7.553 min Scan# 1808  
Delta R.T. 0.003 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 121176 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.1 | 81.6  | 122.4  |
| 192       | 22.6  | 16.2  | 24.2   |

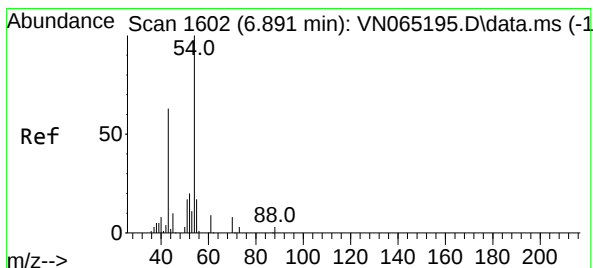
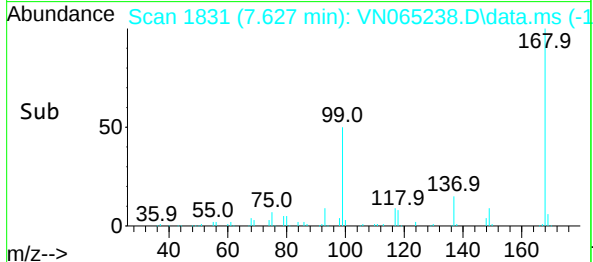
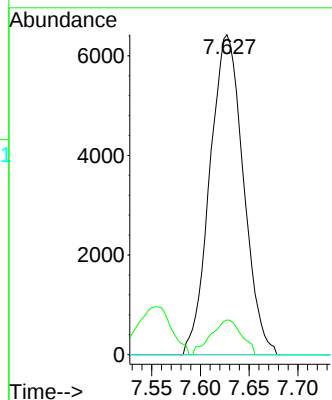
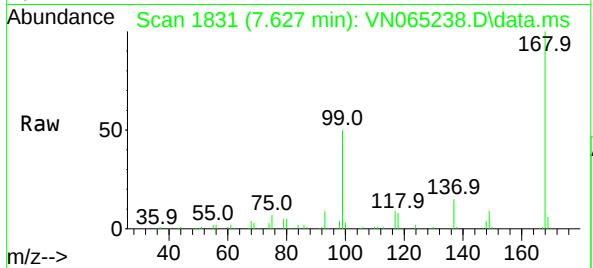




#36  
1,1-Dichloropropene  
Concen: 4.35 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.126 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

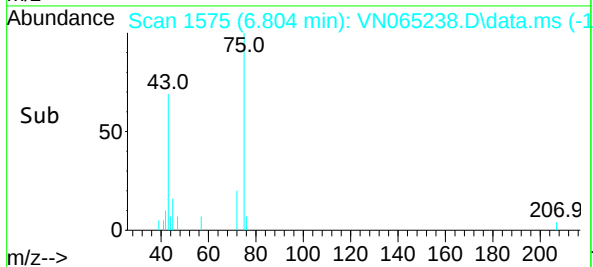
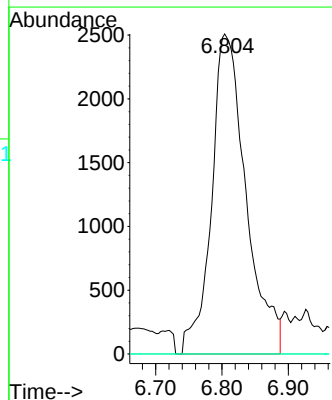
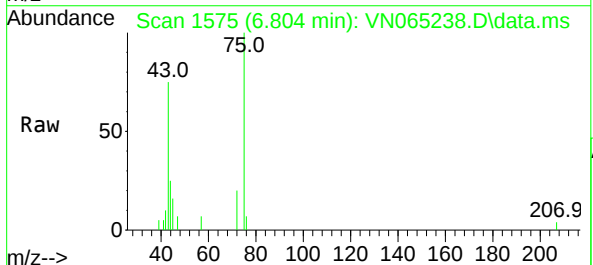
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

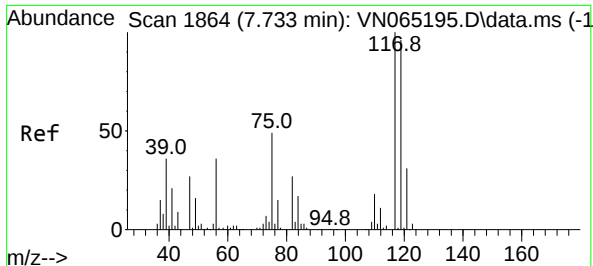
Tgt Ion: 75 Resp: 15366  
Ion Ratio Lower Upper  
75 100  
110 9.9 17.8 53.3#  
77 0.0 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 2.59 ug/l  
RT: 6.804 min Scan# 1575  
Delta R.T. -0.087 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

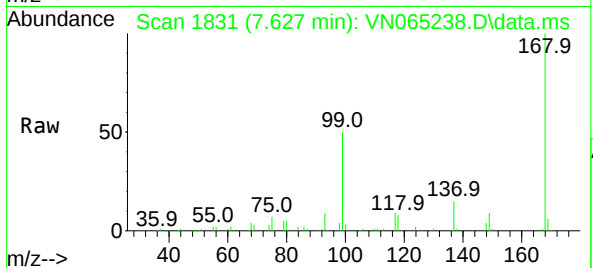
Tgt Ion: 43 Resp: 9074  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.8 19.2#  
70 0.0 8.8 13.2#



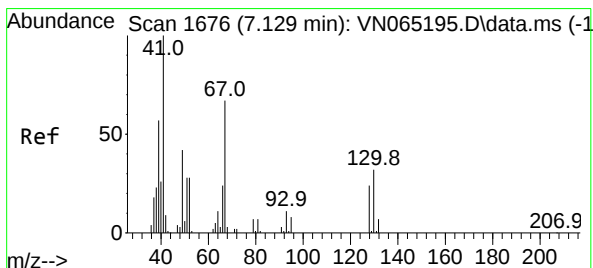
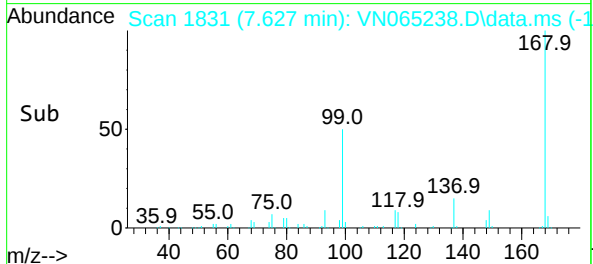
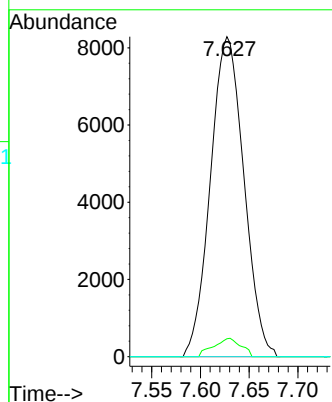


#38  
Carbon Tetrachloride  
Concen: 5.34 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.106 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

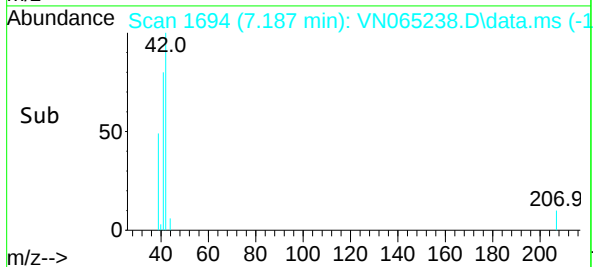
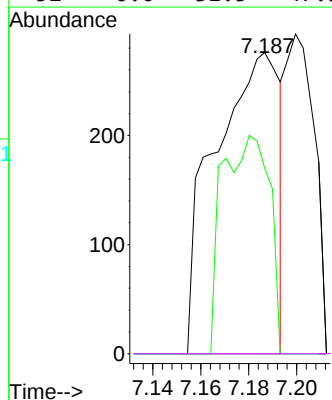
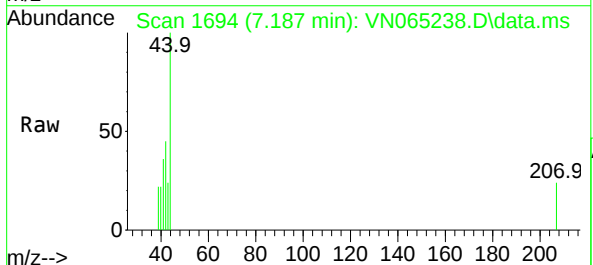


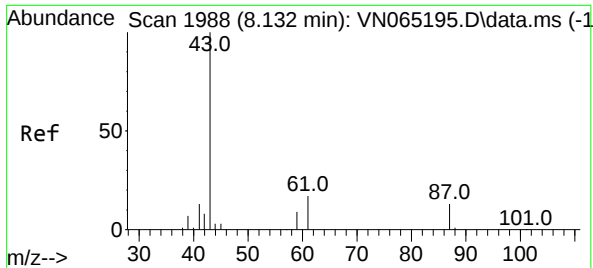
Tgt Ion:117 Resp: 19785  
Ion Ratio Lower Upper  
117 100  
119 5.6 76.7 115.1#  
121 0.0 25.4 38.2#



#41  
Methacrylonitrile  
Concen: 0.28 ug/l  
RT: 7.187 min Scan# 1694  
Delta R.T. 0.058 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 41 Resp: 517  
Ion Ratio Lower Upper  
41 100  
39 52.6 51.0 76.6  
67 0.0 79.8 119.8#  
52 0.0 31.5 47.3#

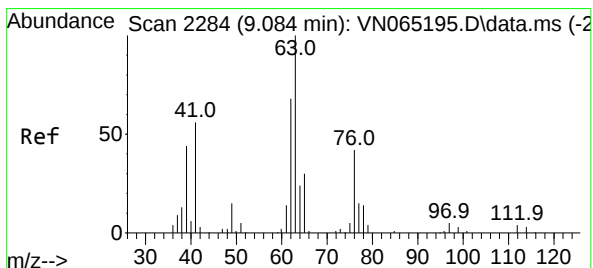
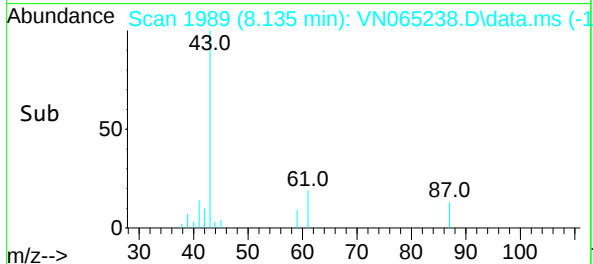
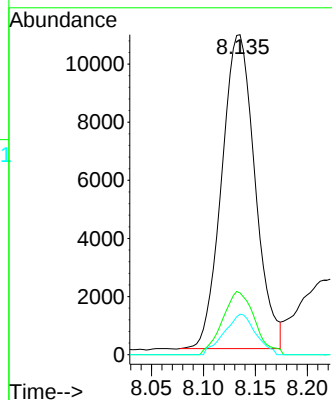
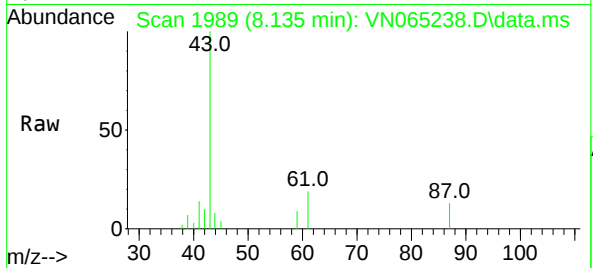




#43  
Isopropyl Acetate  
Concen: 3.99 ug/l  
RT: 8.135 min Scan# 1989  
Delta R.T. 0.003 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

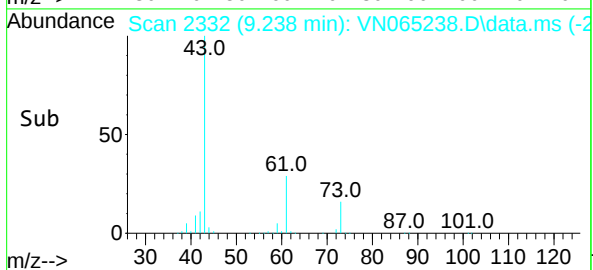
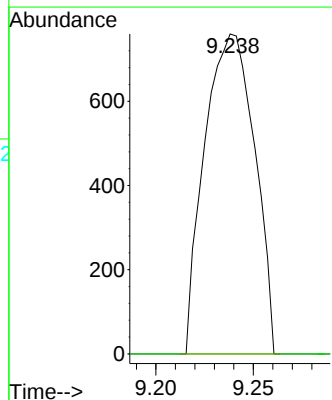
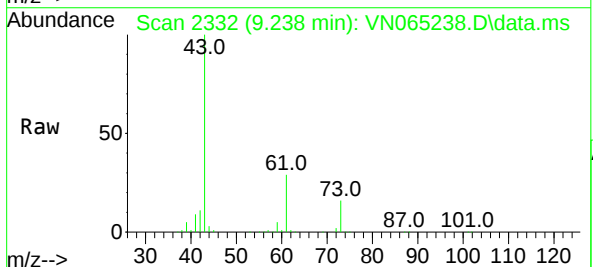
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

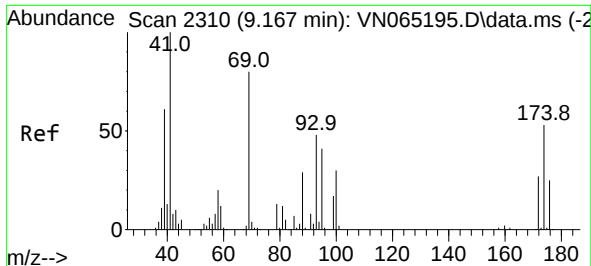
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 24081 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 19.5  | 17.2  | 25.8  |
| 87       | 12.1  | 11.4  | 17.0  |



#45  
1,2-Dichloropropane  
Concen: 0.50 ug/l  
RT: 9.238 min Scan# 2332  
Delta R.T. 0.154 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 1354  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 0.0   | 25.0  | 37.4# |

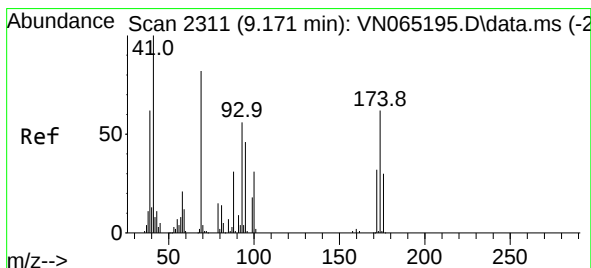
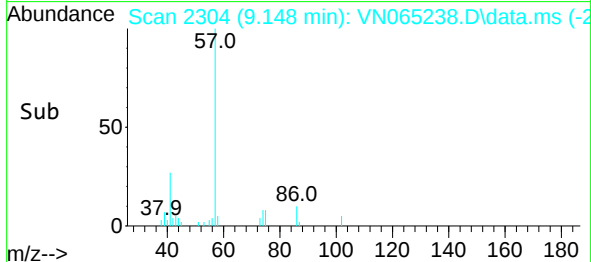
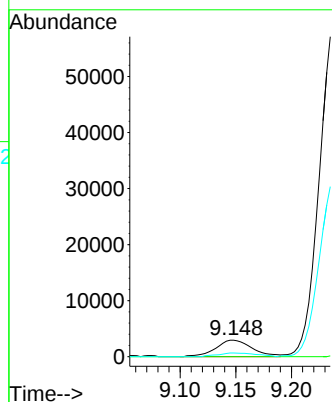
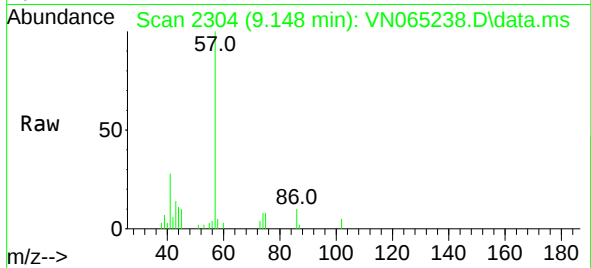




#48  
Methyl methacrylate  
Concen: 2.29 ug/l  
RT: 9.148 min Scan# 2304  
Delta R.T. -0.019 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

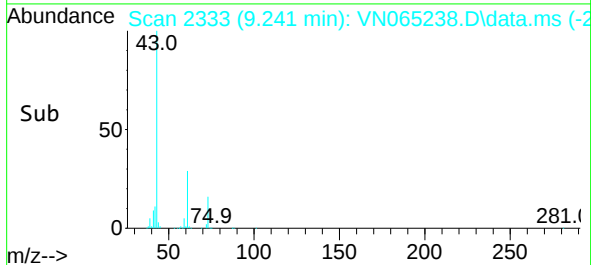
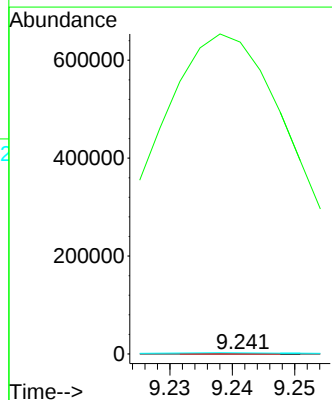
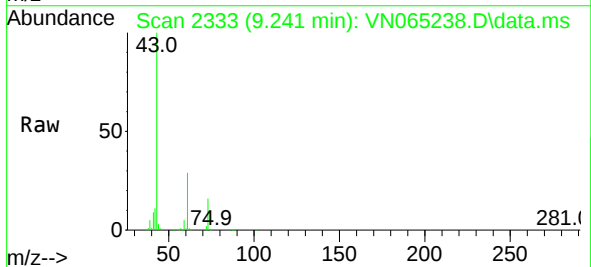
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

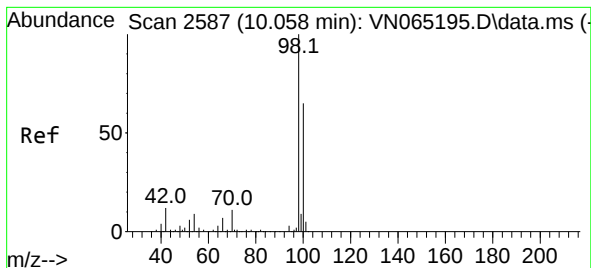
Tgt Ion: 41 Resp: 6708  
Ion Ratio Lower Upper  
41 100  
69 0.0 71.8 107.8#  
39 0.0 44.1 66.1#



#49  
1,4-Dioxane  
Concen: 1.24 ug/l  
RT: 9.241 min Scan# 2333  
Delta R.T. 0.070 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 88 Resp: 59  
Ion Ratio Lower Upper  
88 100  
43 2074649.2 24.2 36.4#  
58 7628.8 52.5 78.7#

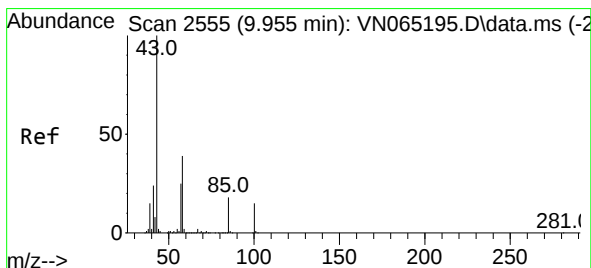
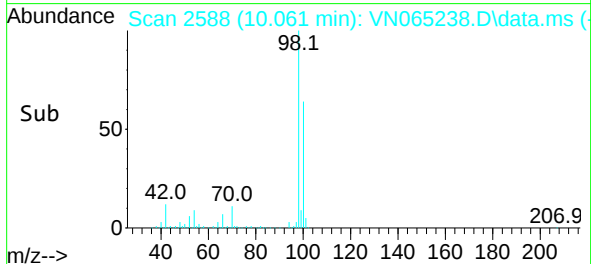
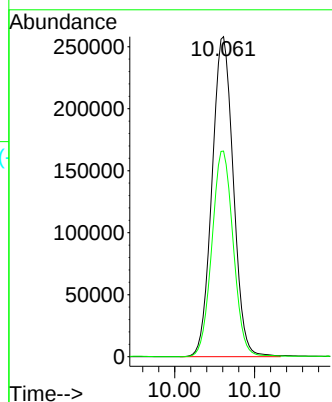
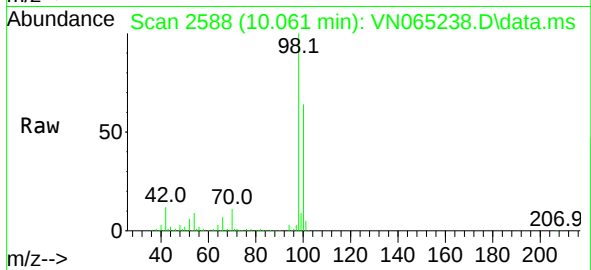




#50  
Toluene-d8  
Concen: 54.30 ug/l  
RT: 10.061 min Scan# 2588  
Delta R.T. 0.003 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

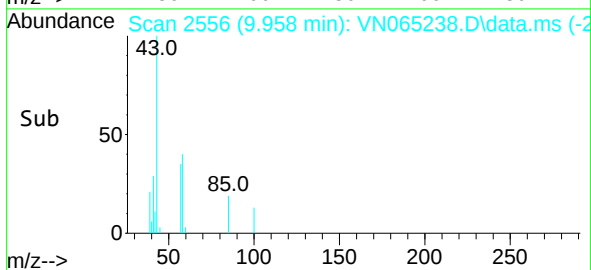
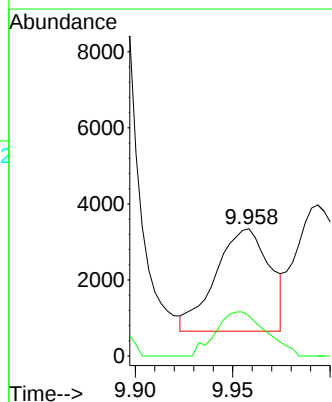
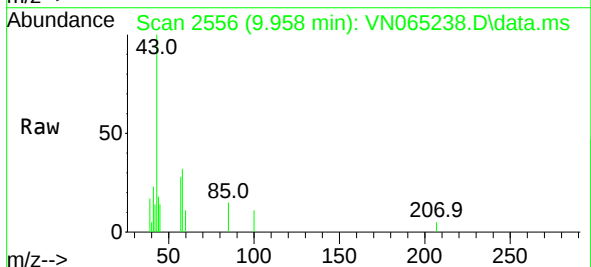
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

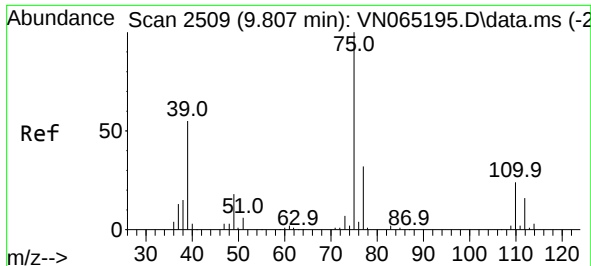
Tgt Ion: 98 Resp: 476684  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 1.53 ug/l  
RT: 9.958 min Scan# 2556  
Delta R.T. 0.003 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 43 Resp: 5200  
Ion Ratio Lower Upper  
43 100  
58 39.9 32.4 48.6

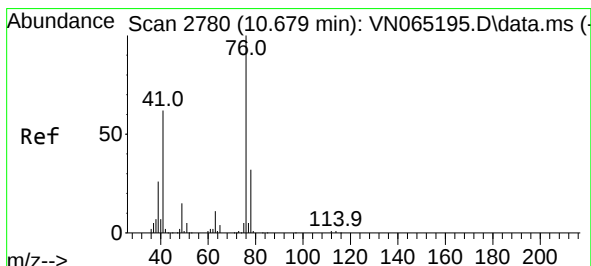
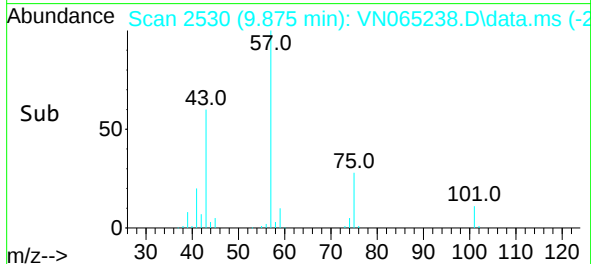
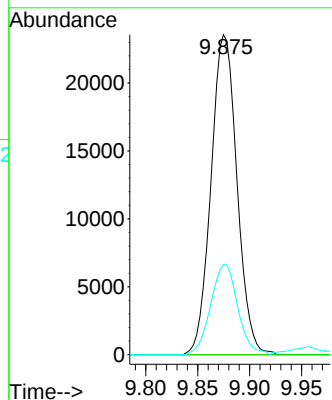
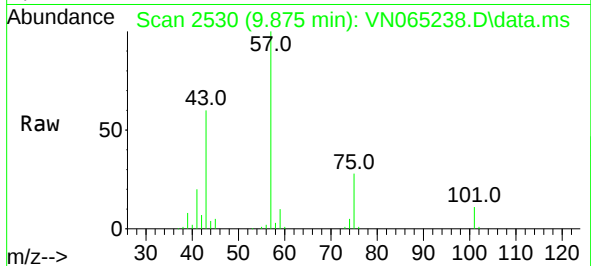




#54  
cis-1,3-Dichloropropene  
Concen: 8.74 ug/l  
RT: 9.875 min Scan# 2530  
Delta R.T. 0.068 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

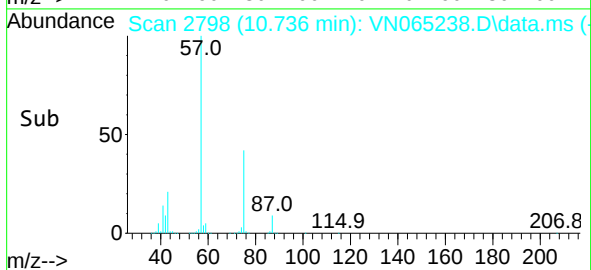
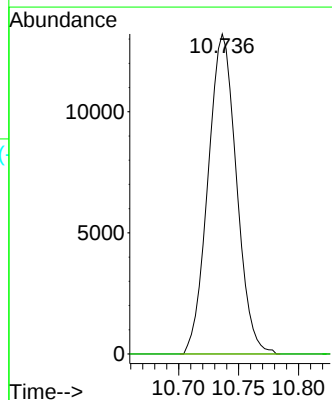
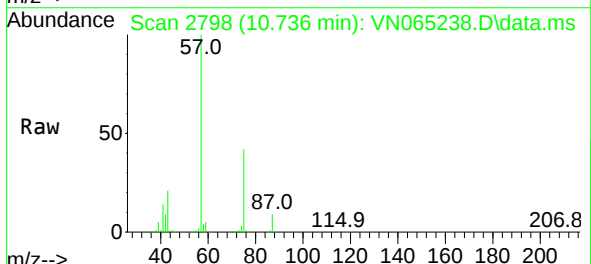
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

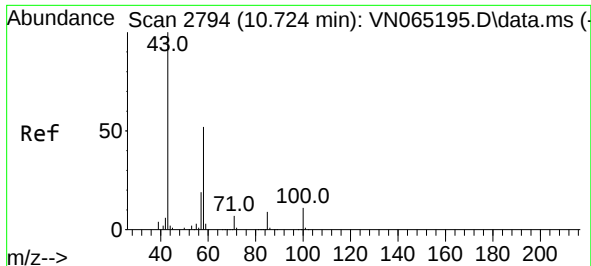
Tgt Ion: 75 Resp: 40927  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.5 38.3#  
39 28.2 35.6 53.4#



#57  
1,3-Dichloropropane  
Concen: 5.04 ug/l  
RT: 10.736 min Scan# 2798  
Delta R.T. 0.057 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 76 Resp: 21772  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

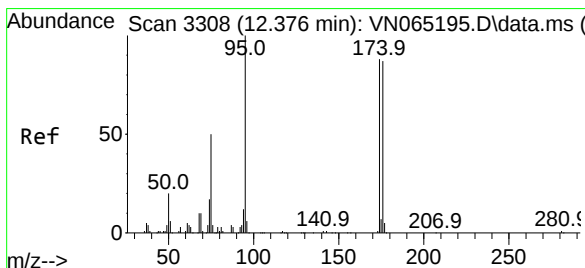
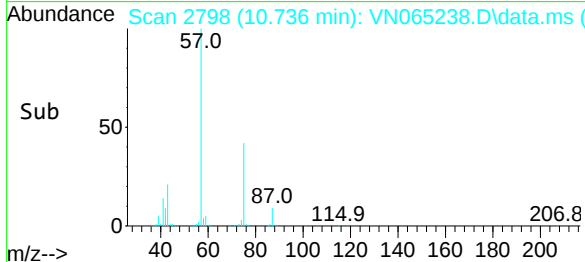
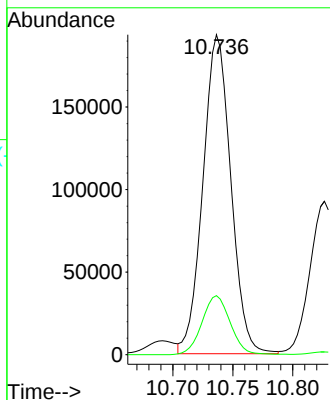
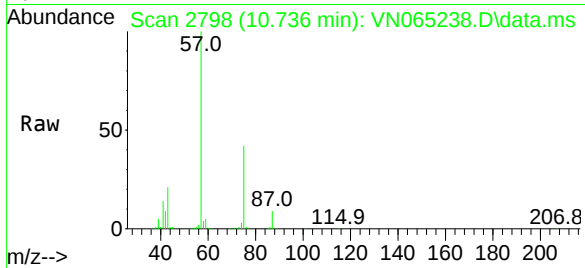




#59  
2-Hexanone  
Concen: 125.32 ug/l  
RT: 10.736 min Scan# 2798  
Delta R.T. 0.012 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

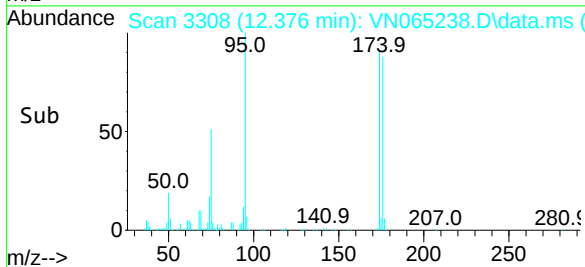
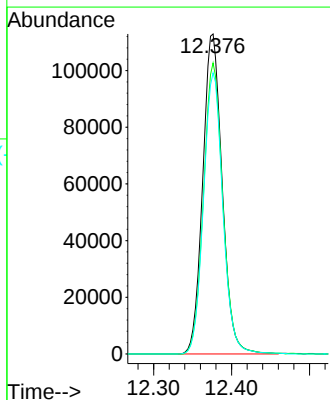
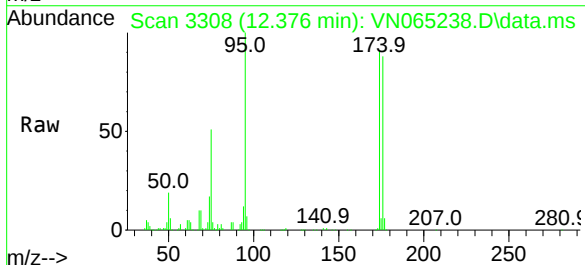
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

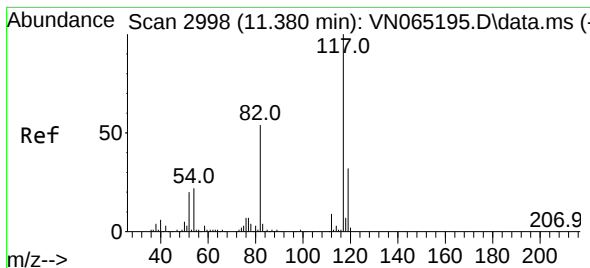
Tgt Ion: 43 Resp: 312353  
Ion Ratio Lower Upper  
43 100  
58 18.8 28.3 84.9#



#62  
4-Bromofluorobenzene  
Concen: 55.73 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 95 Resp: 195762  
Ion Ratio Lower Upper  
95 100  
174 90.3 0.0 160.4  
176 87.2 0.0 158.4

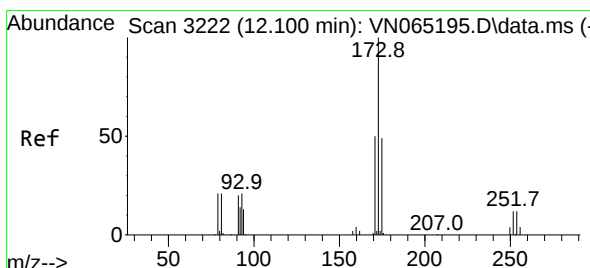
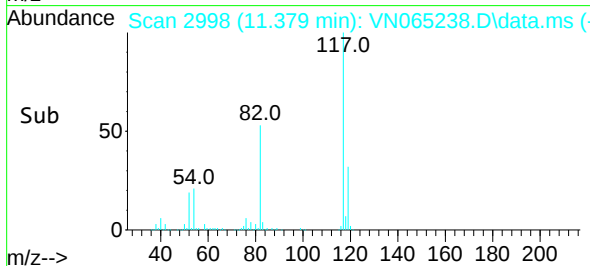
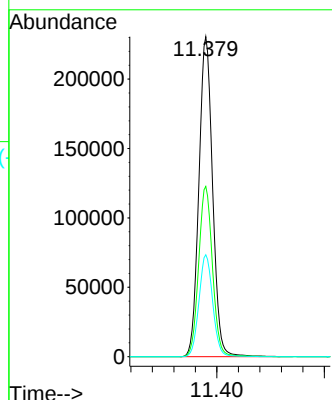
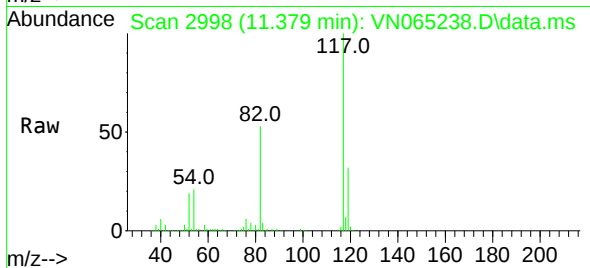




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. -0.001 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

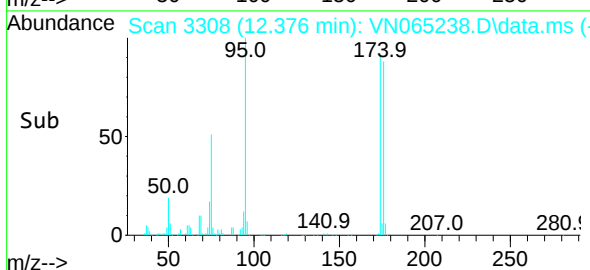
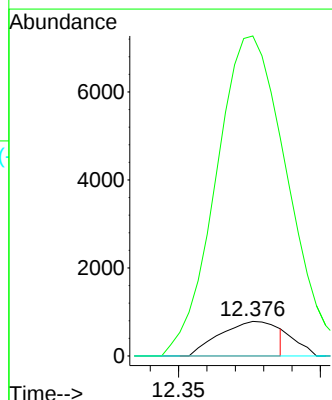
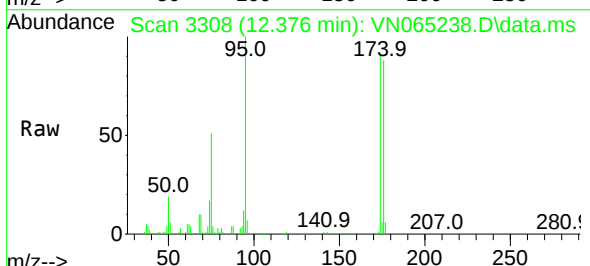
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

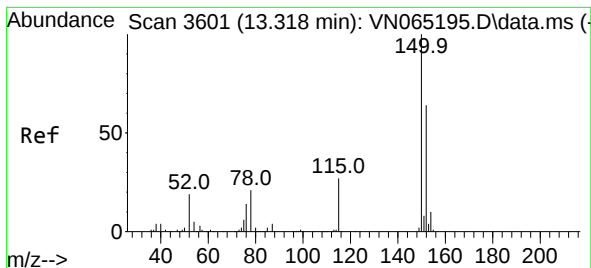
Tgt Ion:117 Resp: 407517  
Ion Ratio Lower Upper  
117 100  
82 53.2 44.2 66.2  
119 31.9 25.8 38.6



#71  
Bromoform  
Concen: 0.40 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.276 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion:173 Resp: 1116  
Ion Ratio Lower Upper  
173 100  
175 947.8 24.3 72.8#  
254 0.0 0.0 0.0

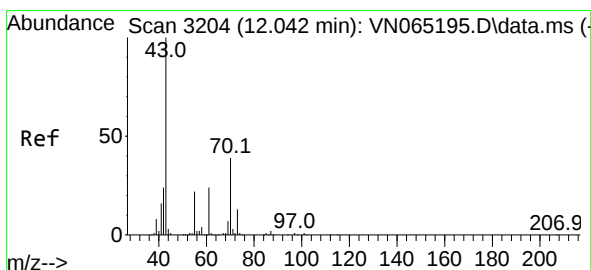
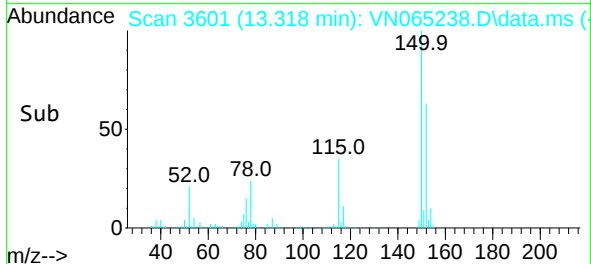
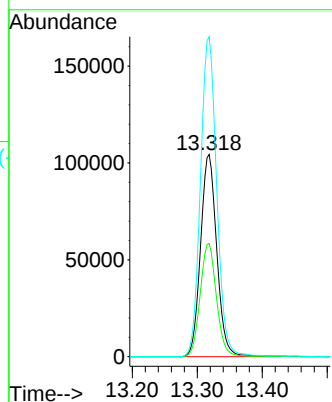
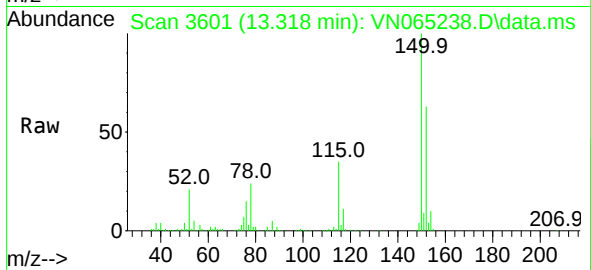




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

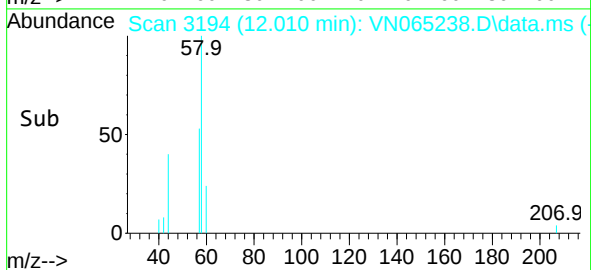
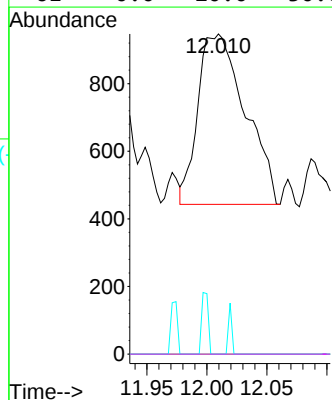
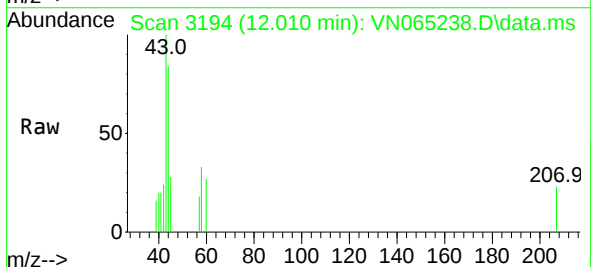
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

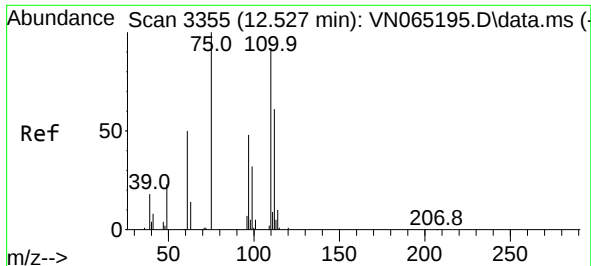
Tgt Ion:152 Resp: 181641  
Ion Ratio Lower Upper  
152 100  
115 56.0 29.7 89.1  
150 158.3 0.0 350.6



#74  
N-ethyl acetate  
Concen: 0.25 ug/l  
RT: 12.010 min Scan# 3194  
Delta R.T. -0.032 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 43 Resp: 1382  
Ion Ratio Lower Upper  
43 100  
70 0.0 34.5 51.7#  
55 5.1 20.4 30.6#  
61 0.0 20.0 30.0#

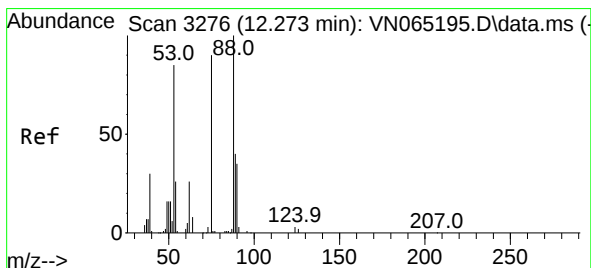
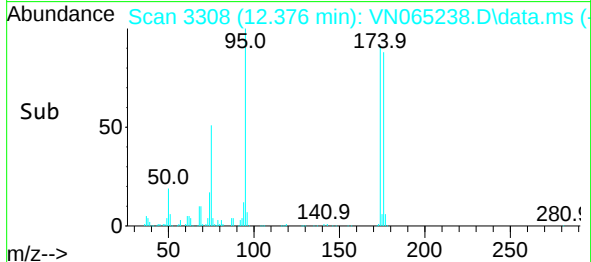
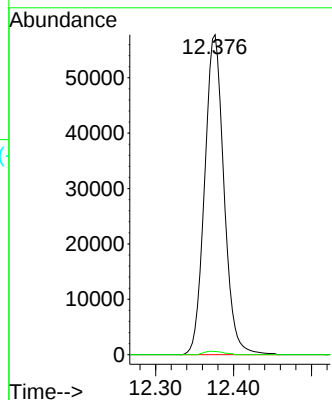
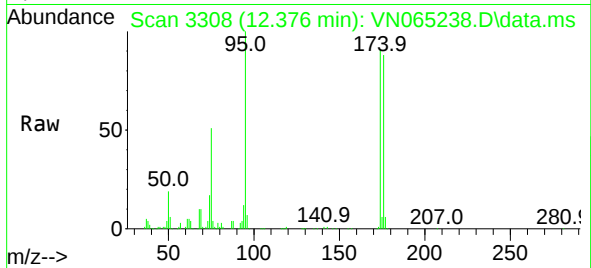




#76  
1,2,3-Trichloropropane  
Concen: 26.85 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. -0.151 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133762ZHE#06

Tgt Ion: 75 Resp: 99496  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.70 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.103 min  
Lab File: VN065238.D  
Acq: 23 Dec 2020 16:28

Tgt Ion: 75 Resp: 99496  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.0 100.4#  
89 0.0 39.6 59.4#

