

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010621\  
 Data File : VN065408.D  
 Acq On : 6 Jan 2021 18:32  
 Operator : JC/MD  
 Sample : M1022-12 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 30732DL

Quant Time: Jan 07 01:30:18 2021  
 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

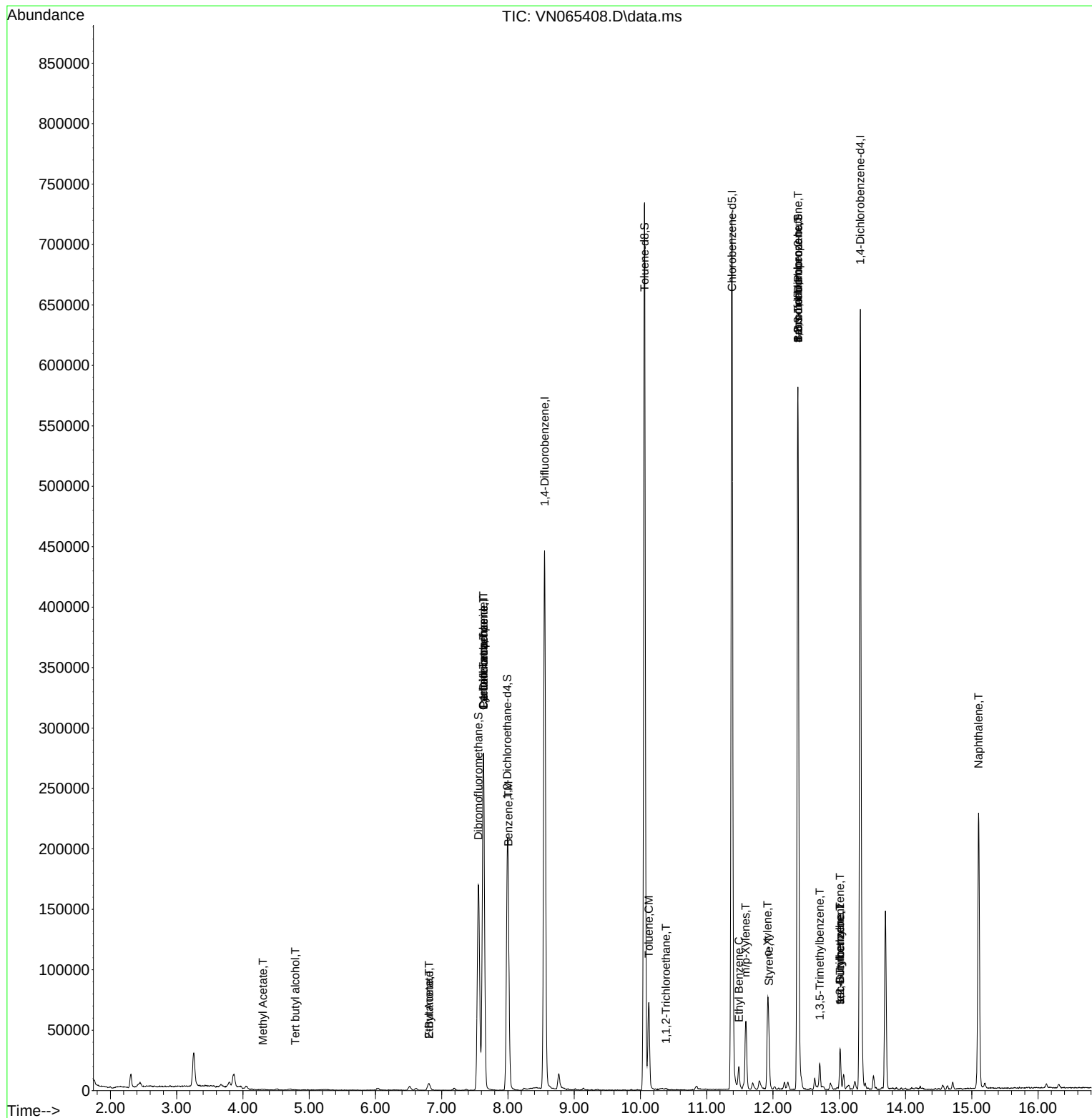
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.630          | 168  | 257258     | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.553          | 114  | 429672     | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.380         | 117  | 457925     | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318         | 152  | 195092     | 50.00     | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.991          | 65   | 145067     | 49.95     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 99.90%    |        |          |
| 35) Dibromofluoromethane      | 7.553          | 113  | 132640     | 51.17     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 102.34%   |        |          |
| 50) Toluene-d8                | 10.061         | 98   | 538165     | 55.39     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 110.78%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.376         | 95   | 208646     | 53.86     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 107.72%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.791          | 59   | 212        | 0.45      | ug/l # | 73       |
| 16) Acetone                   | 3.798          | 43   | 6109       | Below Cal |        | 91       |
| 18) Methyl Acetate            | 4.303          | 43   | 811        | 0.31      | ug/l # | 50       |
| 25) 2-Butanone                | 6.807          | 43   | 1206       | 0.74      | ug/l # | 49       |
| 31) Cyclohexane               | 7.627          | 56   | 3873       | 0.90      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.627          | 75   | 16262      | 4.16      | ug/l # | 49       |
| 37) Ethyl Acetate             | 6.807          | 43   | 1206       | 0.31      | ug/l # | 66       |
| 38) Carbon Tetrachloride      | 7.627          | 117  | 21429      | 5.22      | ug/l # | 16       |
| 40) Benzene                   | 8.007          | 78   | 66496      | 5.72      | ug/l   | 96       |
| 52) Toluene                   | 10.126         | 92   | 31089      | 4.24      | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.386         | 97   | 729        | 0.25      | ug/l # | 14       |
| 67) Ethyl Benzene             | 11.486         | 91   | 13278      | 0.79      | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.588         | 106  | 18805      | 2.97      | ug/l   | 100      |
| 69) o-Xylene                  | 11.920         | 106  | 19037      | 3.10      | ug/l   | 100      |
| 70) Styrene                   | 11.939         | 104  | 18629      | 1.82      | ug/l   | 94       |
| 71) Bromoform                 | 12.376         | 173  | 1361       | 0.44      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.376         | 75   | 100863     | 25.34     | ug/l # | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.707         | 105  | 9981       | 0.79      | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.376         | 75   | 100863     | 63.90     | ug/l # | 15       |
| 83) tert-Butylbenzene         | 13.013         | 119  | 2524       | 0.23      | ug/l # | 67       |
| 84) 1,2,4-Trimethylbenzene    | 13.013         | 105  | 20441      | 1.66      | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.013         | 105  | 20441      | 1.43      | ug/l # | 56       |
| 95) Naphthalene               | 15.103         | 128  | 207690     | 22.53     | ug/l   | 100      |
| -----                         |                |      |            |           |        |          |

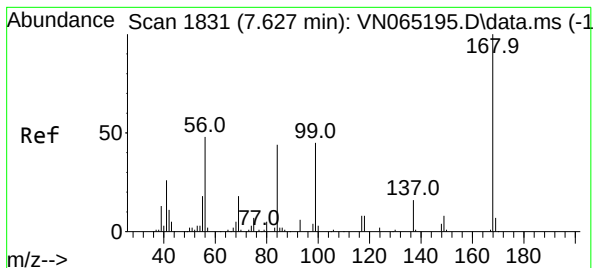
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

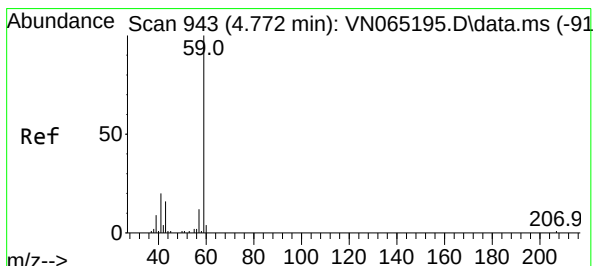
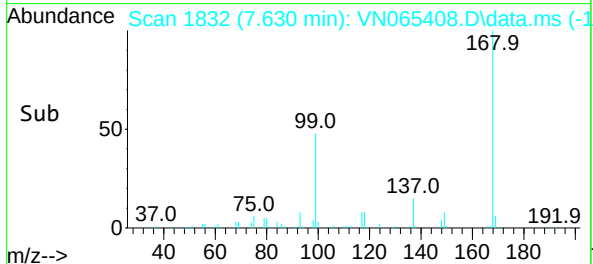
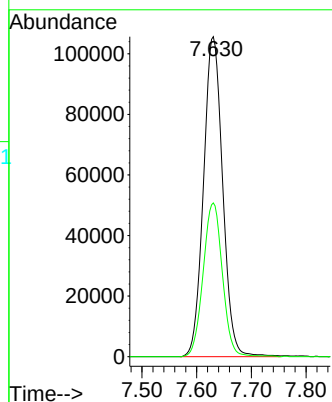
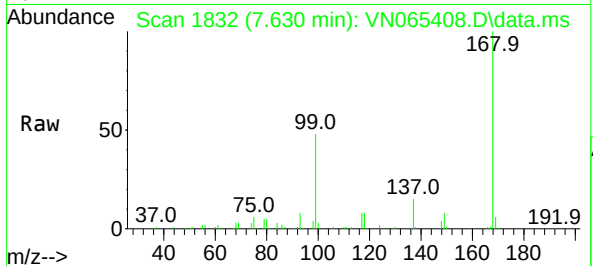




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.630 min Scan# 1832  
Delta R.T. 0.003 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

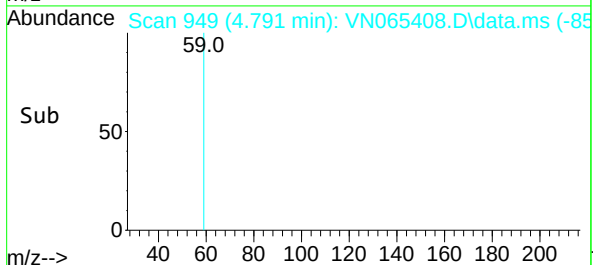
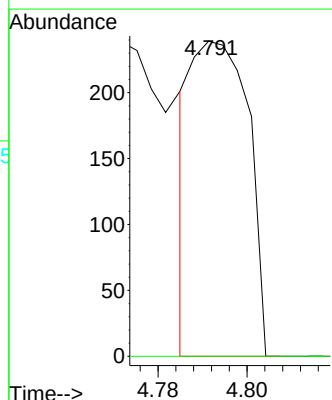
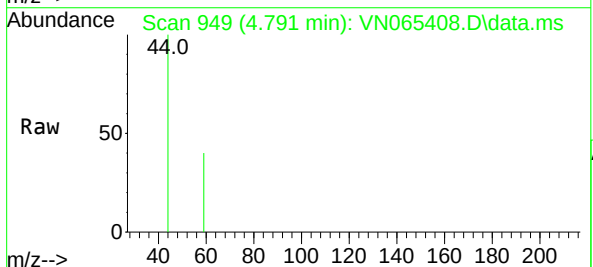
Instrument :  
MSVOA\_N  
ClientSampleId :  
30732DL

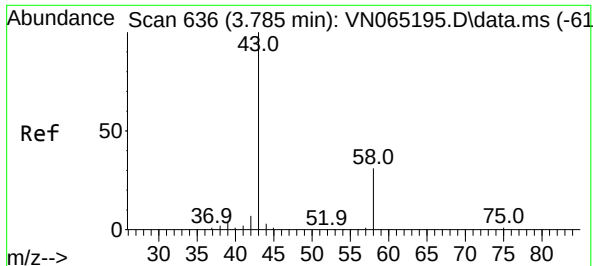
Tgt Ion:168 Resp: 257258  
Ion Ratio Lower Upper  
168 100  
99 48.0 43.0 64.4



#11  
Tert butyl alcohol  
Concen: 0.45 ug/l  
RT: 4.791 min Scan# 949  
Delta R.T. 0.019 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 59 Resp: 212  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#

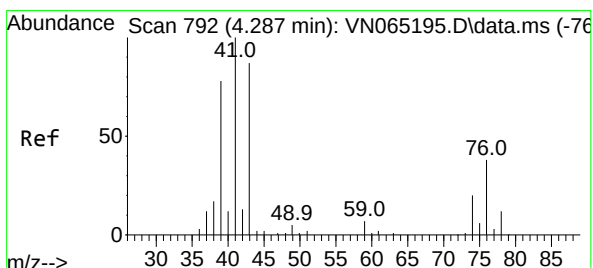
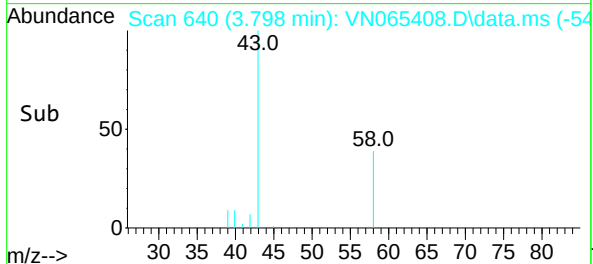
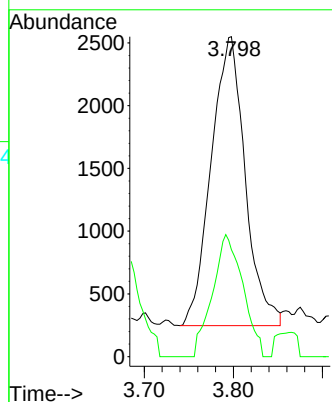
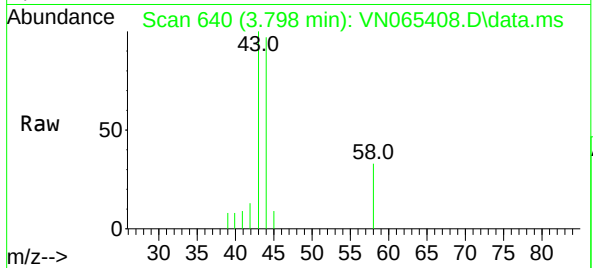




#16  
Acetone  
Concen: Below Cal  
RT: 3.798 min Scan# 640  
Delta R.T. 0.013 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

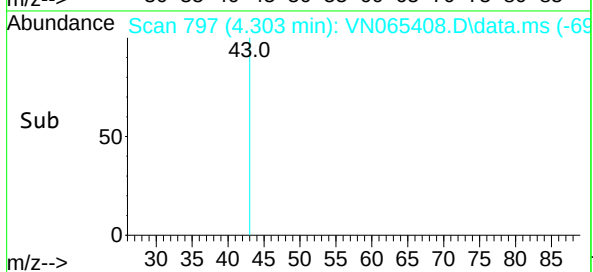
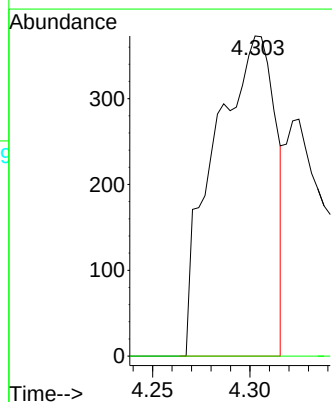
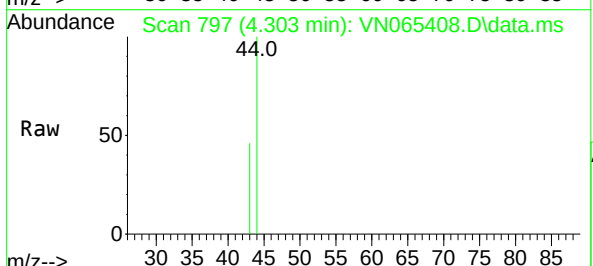
Instrument :  
MSVOA\_N  
ClientSampled :  
30732DL

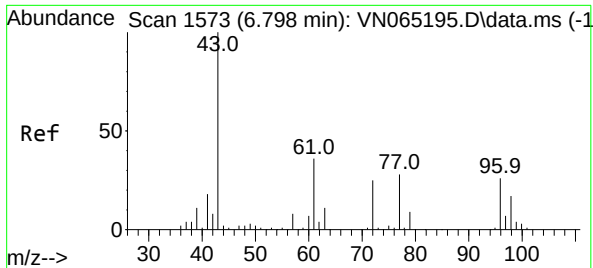
Tgt Ion: 43 Resp: 6109  
Ion Ratio Lower Upper  
43 100  
58 37.0 25.7 38.5



#18  
Methyl Acetate  
Concen: 0.31 ug/l  
RT: 4.303 min Scan# 797  
Delta R.T. 0.016 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 43 Resp: 811  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.2#

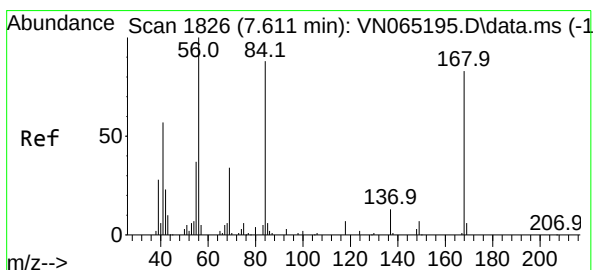
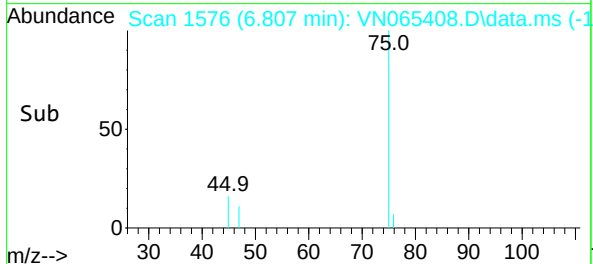
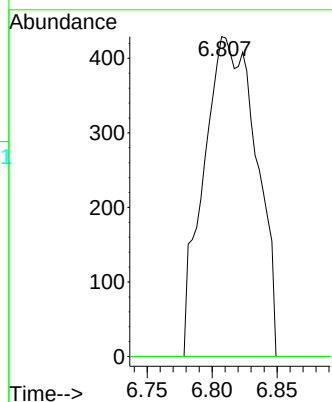
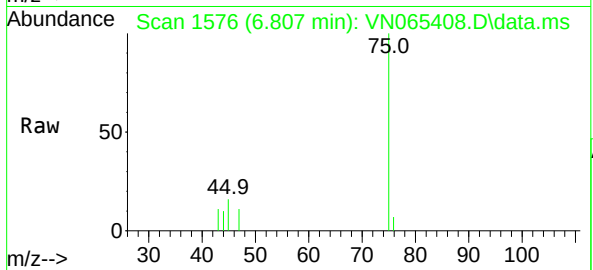




#25  
2-Butanone  
Concen: 0.74 ug/l  
RT: 6.807 min Scan# 1576  
Delta R.T. 0.009 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

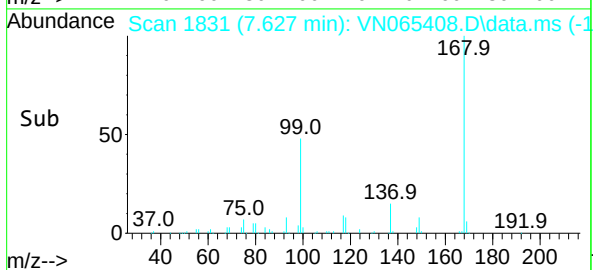
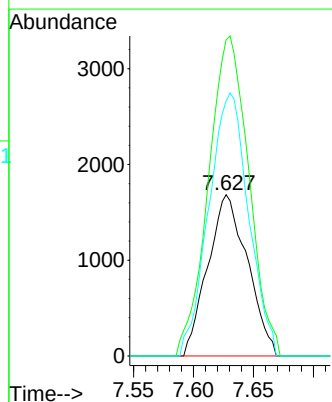
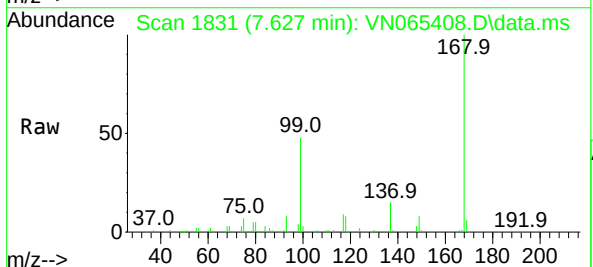
Instrument :  
MSVOA\_N  
ClientSampled :  
30732DL

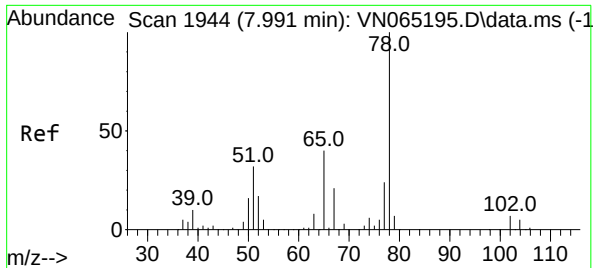
Tgt Ion: 43 Resp: 1206  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.0 31.6#



#31  
Cyclohexane  
Concen: 0.90 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.016 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 56 Resp: 3873  
Ion Ratio Lower Upper  
56 100  
69 196.0 27.5 41.3#  
84 158.0 73.9 110.9#

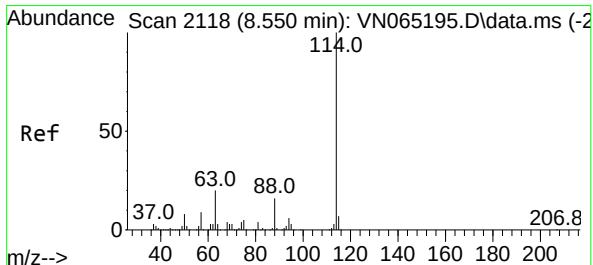
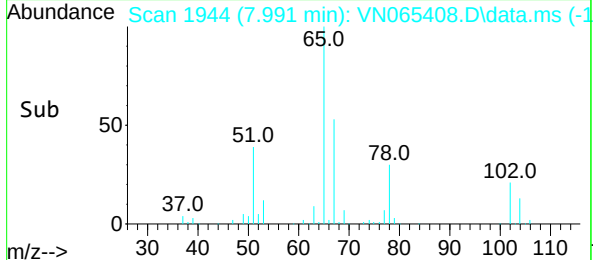
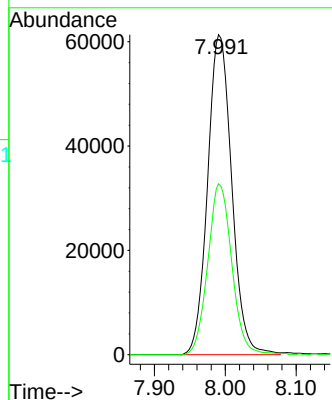
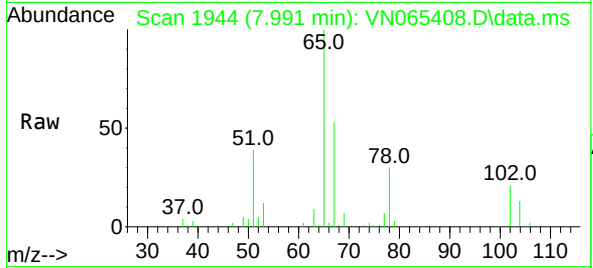




#33  
1,2-Dichloroethane-d4  
Concen: 49.95 ug/l  
RT: 7.991 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

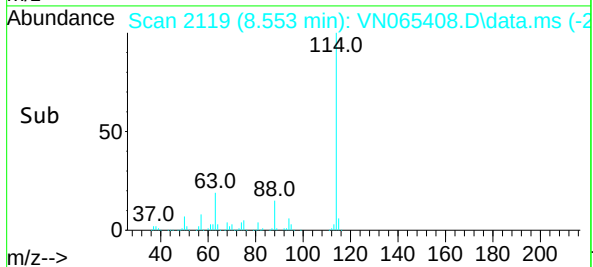
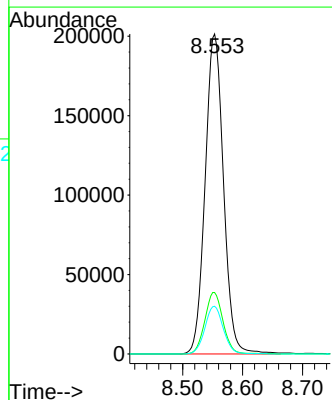
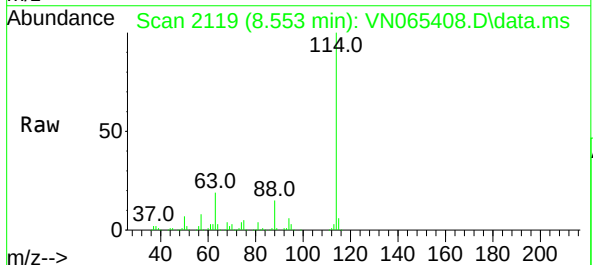
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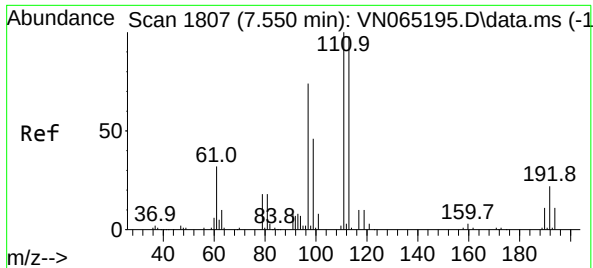
Tgt Ion: 65 Resp: 145067  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 108.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.553 min Scan# 2119  
Delta R.T. 0.003 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 114 Resp: 429672  
Ion Ratio Lower Upper  
114 100  
63 19.2 0.0 38.6  
88 14.9 0.0 32.6

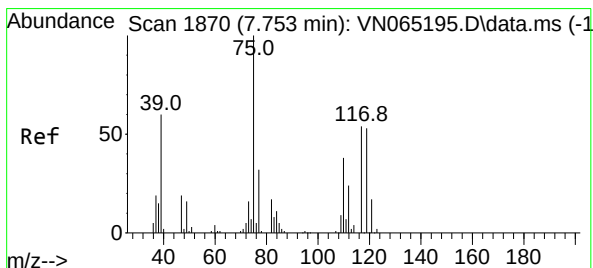
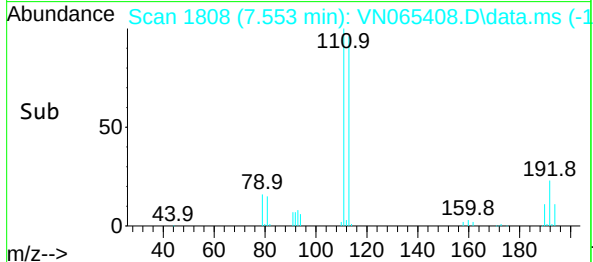
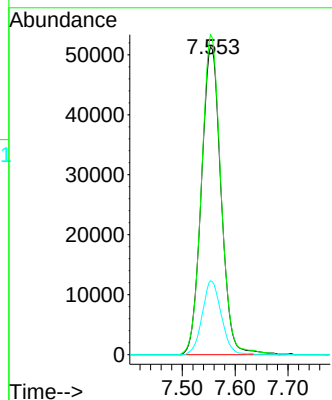
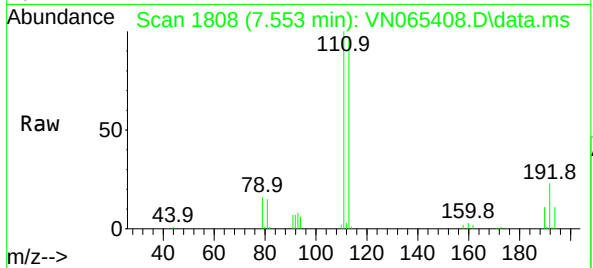




#35  
Dibromofluoromethane  
Concen: 51.17 ug/l  
RT: 7.553 min Scan# 1808  
Delta R.T. 0.003 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

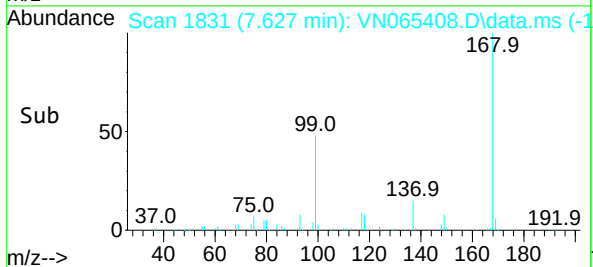
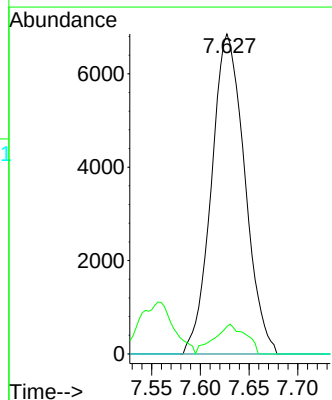
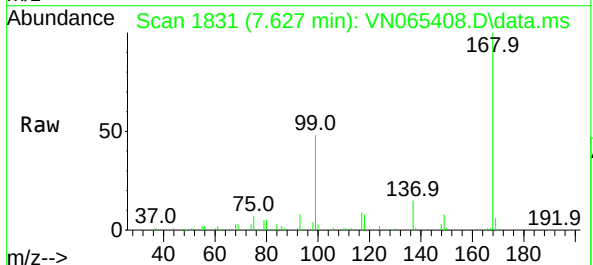
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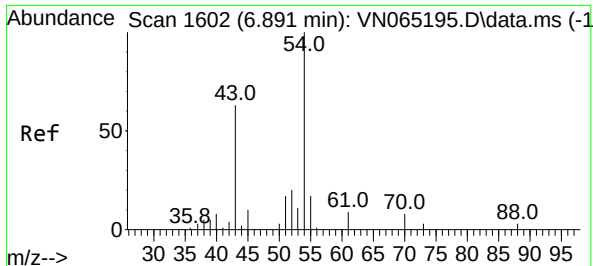
Tgt Ion:113 Resp: 132640  
Ion Ratio Lower Upper  
113 100  
111 102.3 81.6 122.4  
192 23.2 16.2 24.2



#36  
1,1-Dichloropropene  
Concen: 4.16 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. -0.126 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 75 Resp: 16262  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.8 53.3#  
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.31 ug/l

RT: 6.807 min Scan# 1576

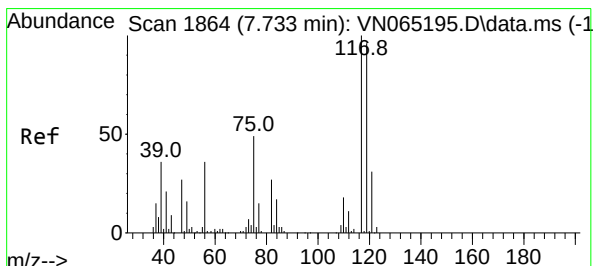
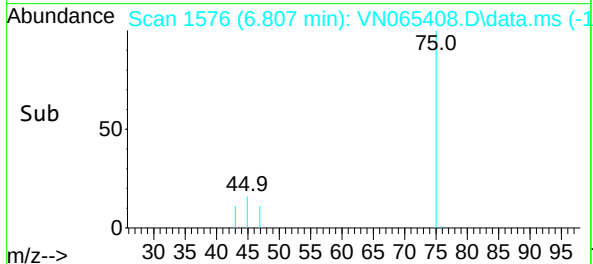
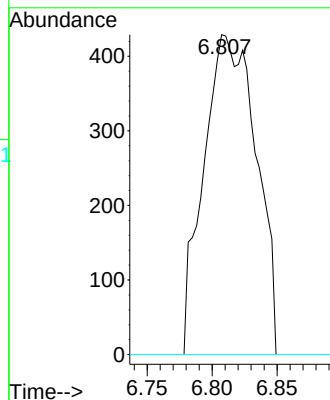
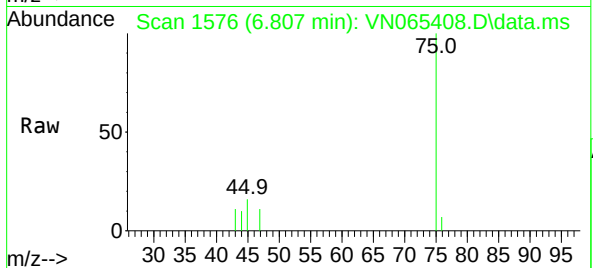
Delta R.T. -0.084 min

Lab File: VN065408.D

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|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 1206        |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 61          | 0.0   | 12.8 19.2#  |
| 70          | 0.0   | 8.8 13.2#   |



#38

Carbon Tetrachloride

Concen: 5.22 ug/l

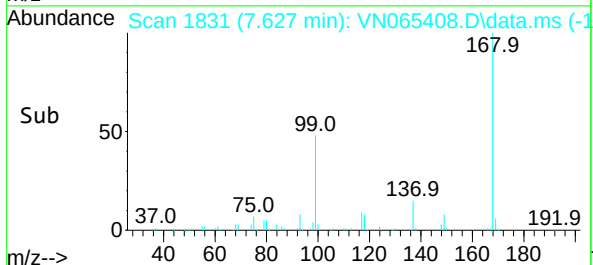
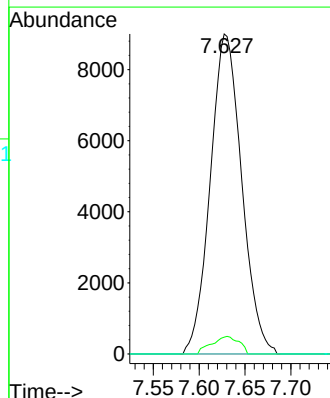
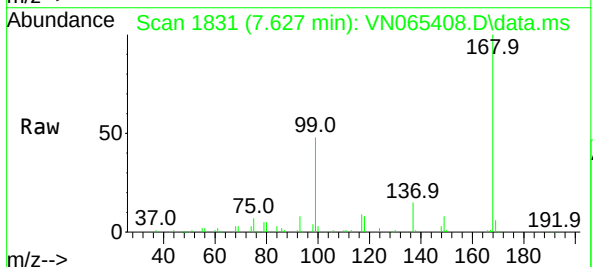
RT: 7.627 min Scan# 1831

Delta R.T. -0.106 min

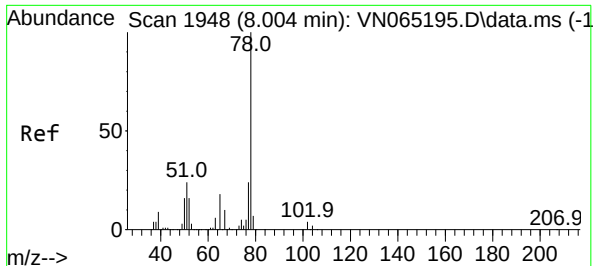
Lab File: VN065408.D

Acq: 6 Jan 2021 18:32

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 117 | Resp: | 21429       |
| Ion          | Ratio | Lower Upper |
| 117          | 100   |             |
| 119          | 5.3   | 76.7 115.1# |
| 121          | 0.0   | 25.4 38.2#  |



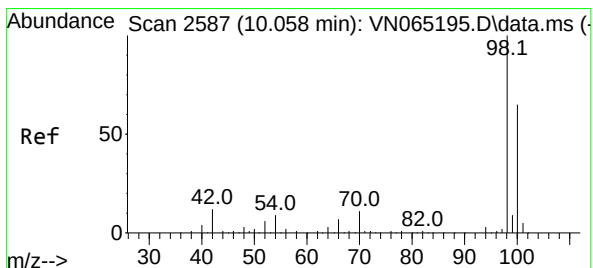
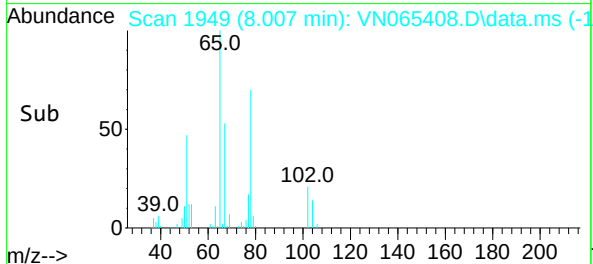
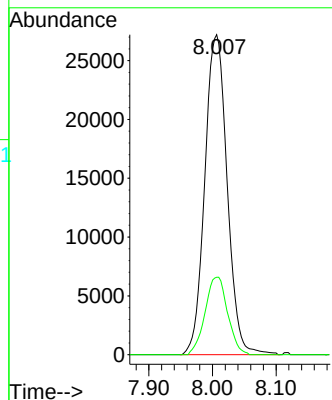
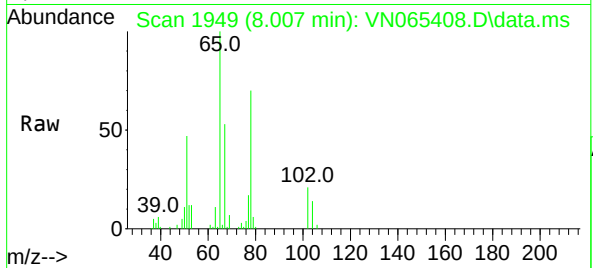




#40  
Benzene  
Concen: 5.72 ug/l  
RT: 8.007 min Scan# 1949  
Delta R.T. 0.003 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

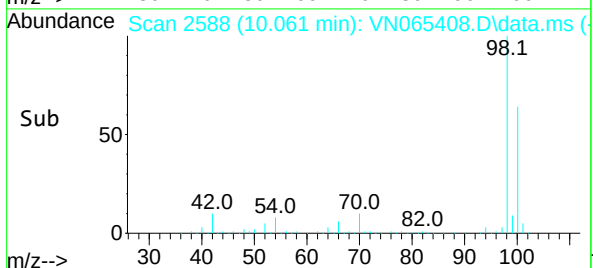
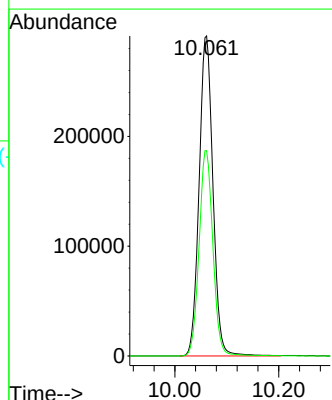
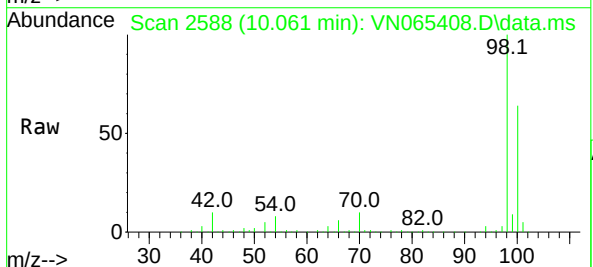
Instrument :  
MSVOA\_N  
ClientSampled :  
30732DL

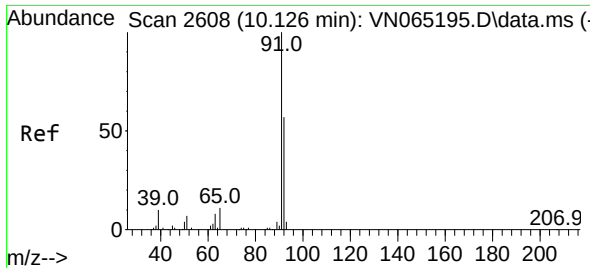
Tgt Ion: 78 Resp: 66496  
Ion Ratio Lower Upper  
78 100  
77 24.2 17.9 26.9



#50  
Toluene-d8  
Concen: 55.39 ug/l  
RT: 10.061 min Scan# 2588  
Delta R.T. 0.003 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 98 Resp: 538165  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.7 77.5

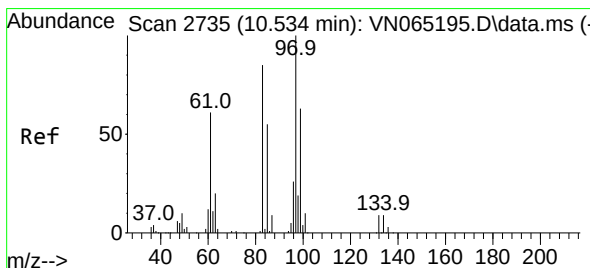
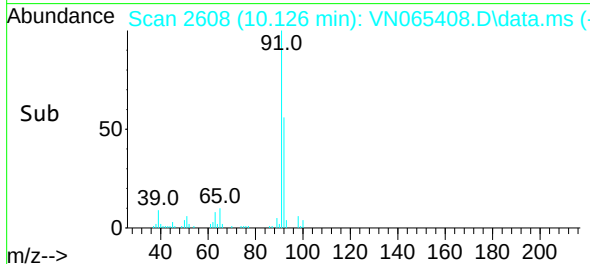
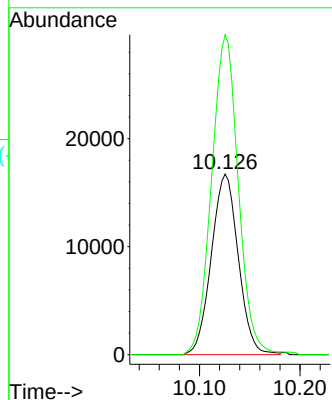
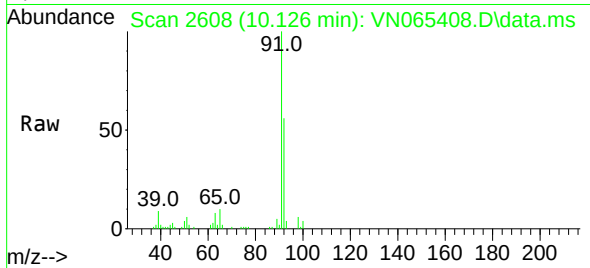




#52  
Toluene  
Concen: 4.24 ug/l  
RT: 10.126 min Scan# 2608  
Delta R.T. -0.000 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

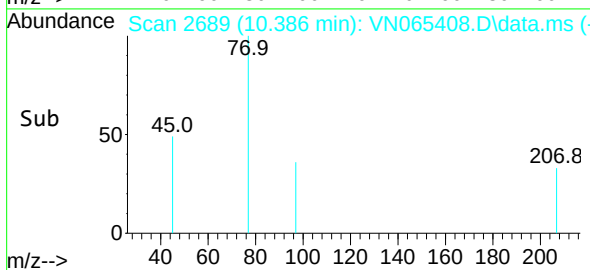
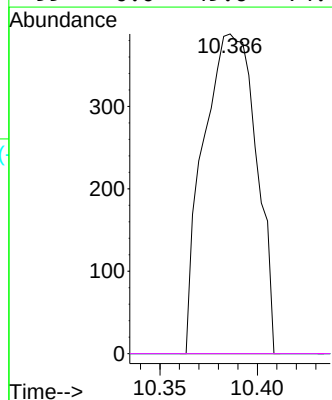
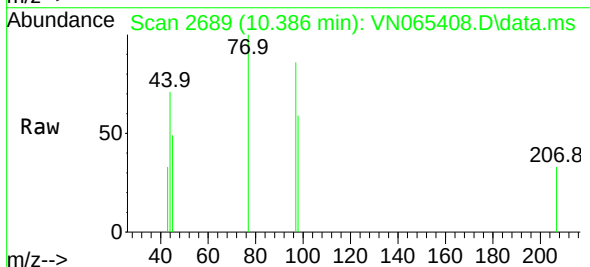
Instrument :  
MSVOA\_N  
ClientSampled :  
30732DL

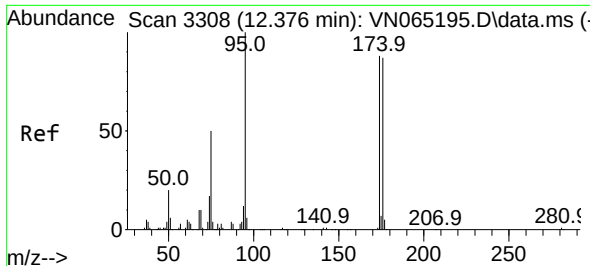
Tgt Ion: 92 Resp: 31089  
Ion Ratio Lower Upper  
92 100  
91 176.3 139.1 208.7



#55  
1,1,2-Trichloroethane  
Concen: 0.25 ug/l  
RT: 10.386 min Scan# 2689  
Delta R.T. -0.148 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 97 Resp: 729  
Ion Ratio Lower Upper  
97 100  
83 0.0 72.1 108.1#  
85 0.0 46.8 70.2#  
99 0.0 49.6 74.4#

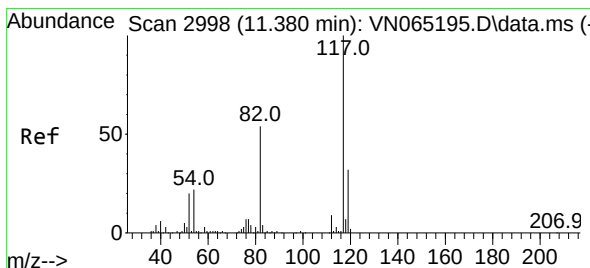
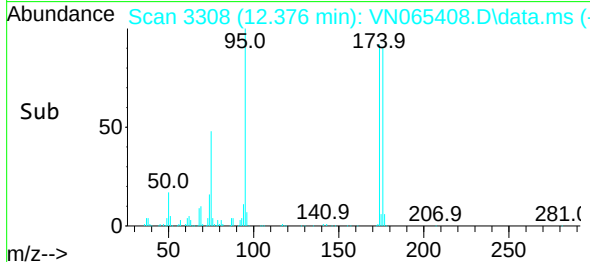
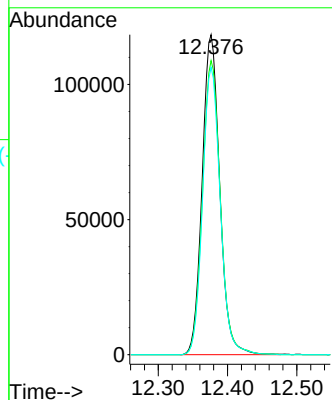
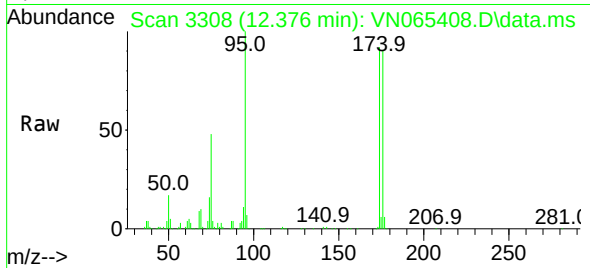




#62  
4-Bromofluorobenzene  
Concen: 53.86 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

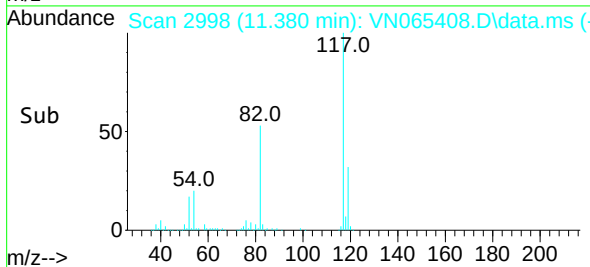
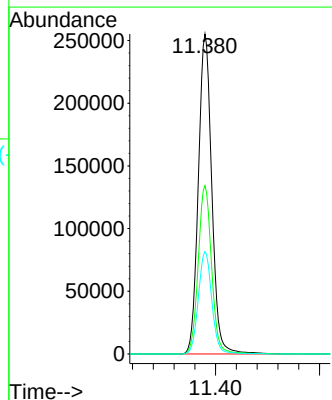
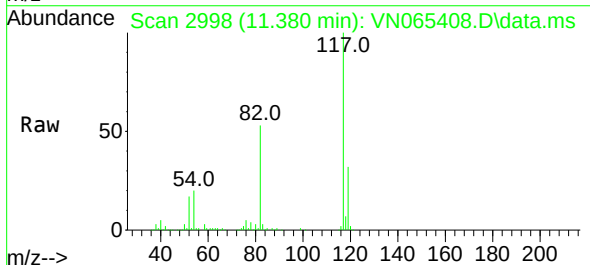
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ClientSampleId :  
30732DL

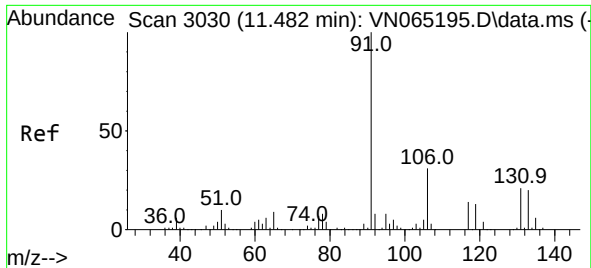
Tgt Ion: 95 Resp: 208646  
Ion Ratio Lower Upper  
95 100  
174 93.3 0.0 160.4  
176 90.2 0.0 158.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.380 min Scan# 2998  
Delta R.T. -0.001 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion: 117 Resp: 457925  
Ion Ratio Lower Upper  
117 100  
82 52.6 44.2 66.2  
119 32.0 25.8 38.6

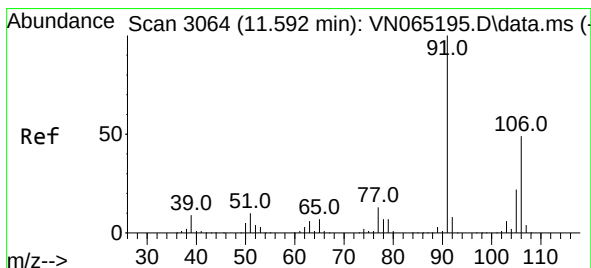
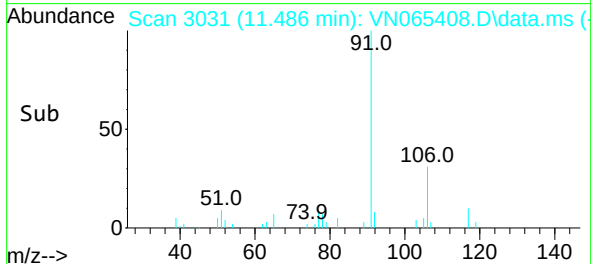
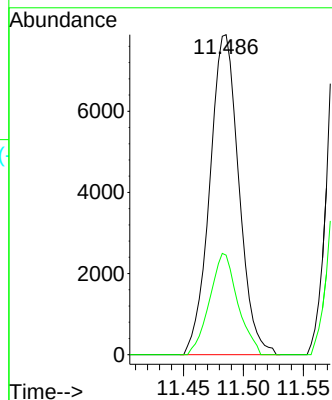
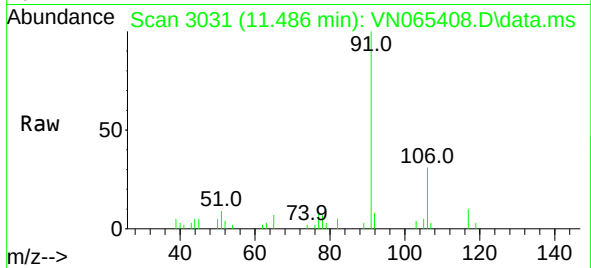




#67  
Ethyl Benzene  
Concen: 0.79 ug/l  
RT: 11.486 min Scan# 3031  
Delta R.T. 0.004 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

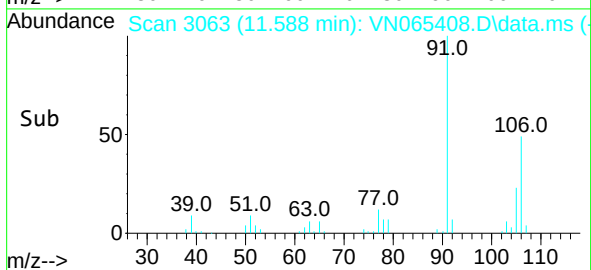
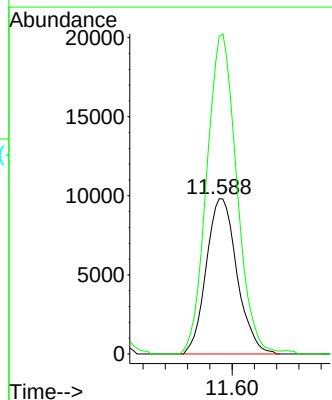
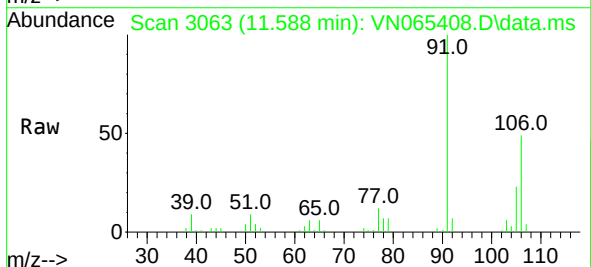
Instrument :  
MSVOA\_N  
ClientSampleId :  
30732DL

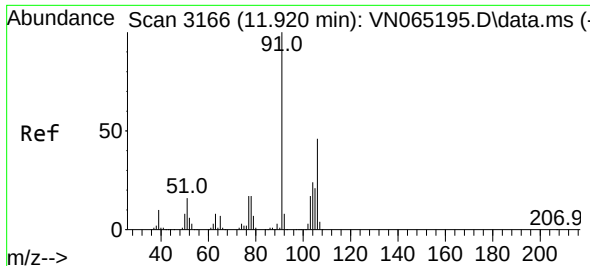
Tgt Ion: 91 Resp: 13278  
Ion Ratio Lower Upper  
91 100  
106 31.1 25.2 37.8



#68  
m/p-Xylenes  
Concen: 2.97 ug/l  
RT: 11.588 min Scan# 3063  
Delta R.T. -0.004 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion:106 Resp: 18805  
Ion Ratio Lower Upper  
106 100  
91 201.4 161.0 241.4

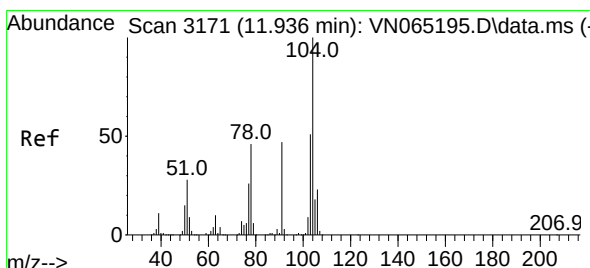
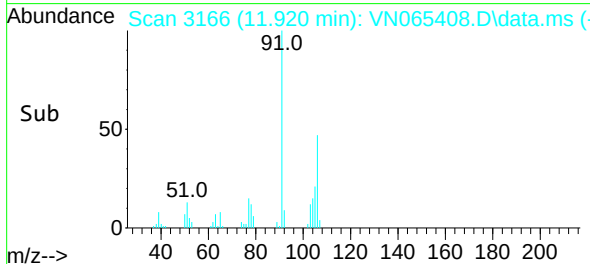
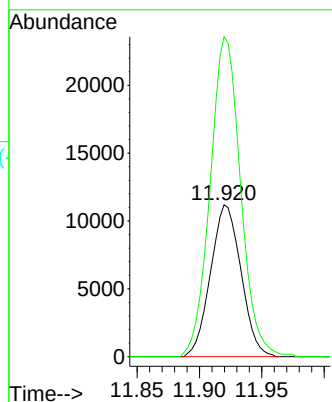
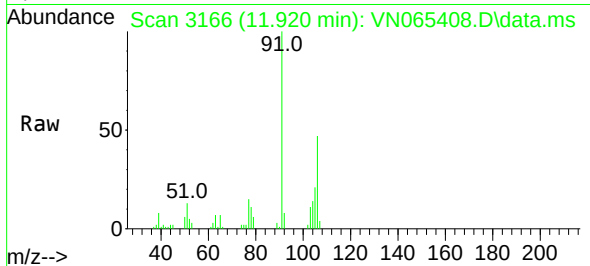




#69  
o-Xylene  
Concen: 3.10 ug/l  
RT: 11.920 min Scan# 3166  
Delta R.T. -0.000 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

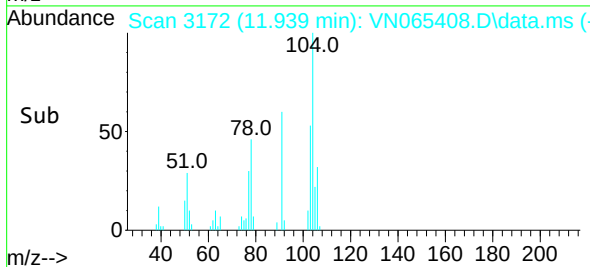
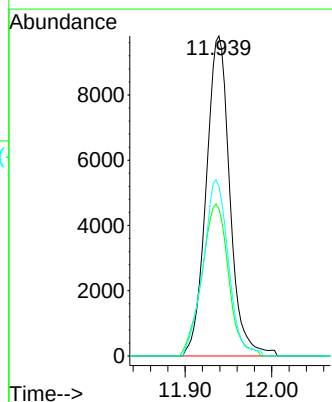
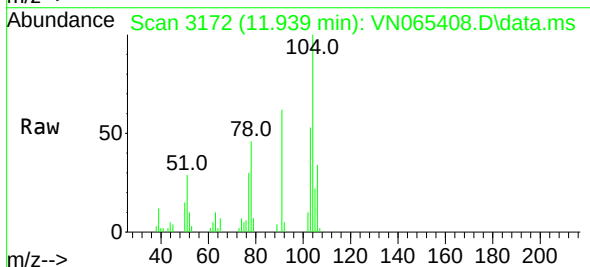
Instrument :  
MSVOA\_N  
ClientSampled :  
30732DL

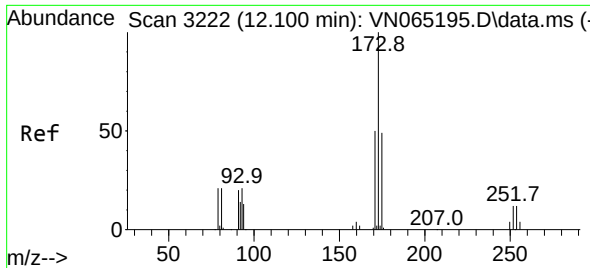
Tgt Ion:106 Resp: 19037  
Ion Ratio Lower Upper  
106 100  
91 210.5 105.5 316.5



#70  
Styrene  
Concen: 1.82 ug/l  
RT: 11.939 min Scan# 3172  
Delta R.T. 0.003 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion:104 Resp: 18629  
Ion Ratio Lower Upper  
104 100  
78 53.6 39.0 58.6  
103 58.8 44.3 66.5

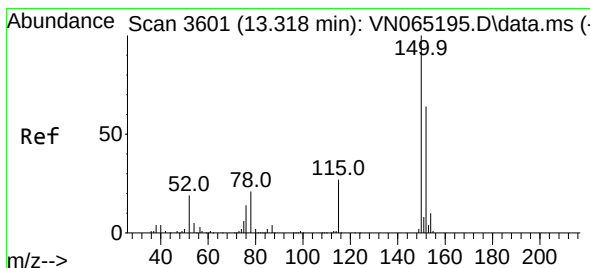
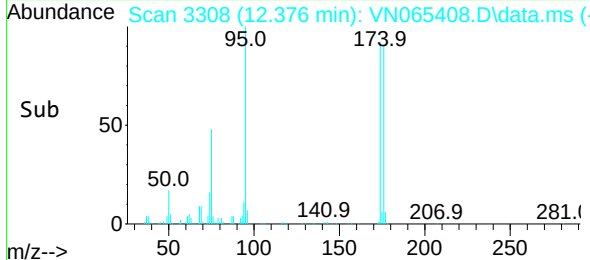
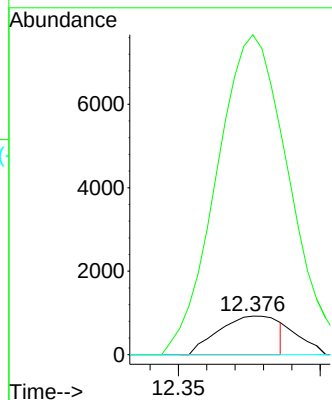
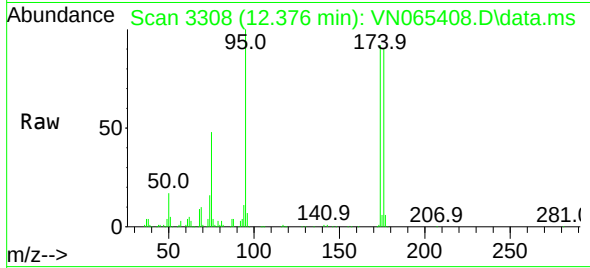




#71  
Bromoform  
Concen: 0.44 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.276 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

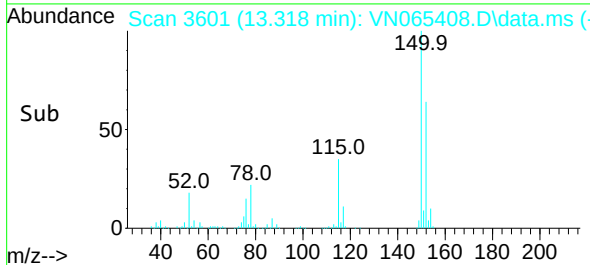
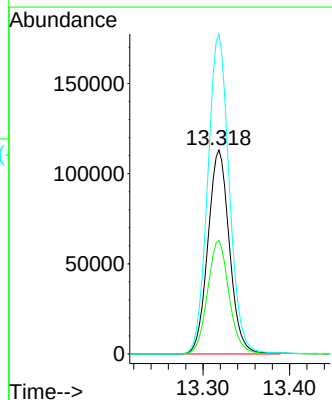
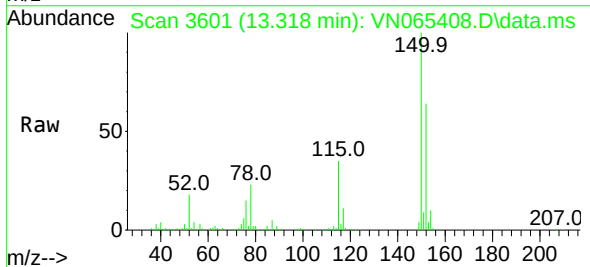
Instrument :  
MSVOA\_N  
ClientSampled :  
30732DL

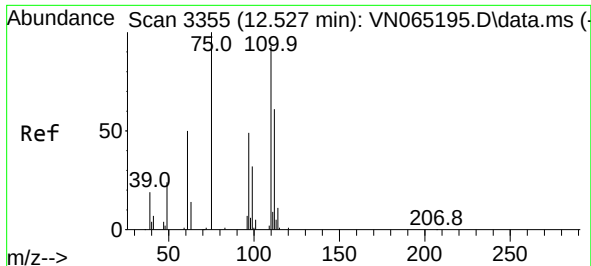
Tgt Ion:173 Resp: 1361  
Ion Ratio Lower Upper  
173 100  
175 821.1 24.3 72.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion:152 Resp: 195092  
Ion Ratio Lower Upper  
152 100  
115 55.6 29.7 89.1  
150 157.3 0.0 350.6

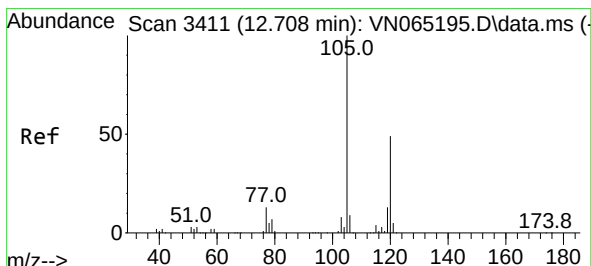
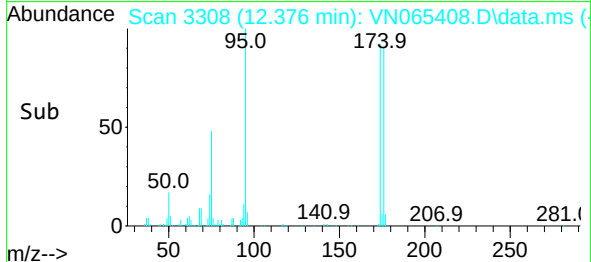
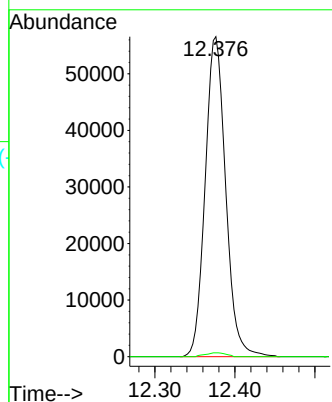
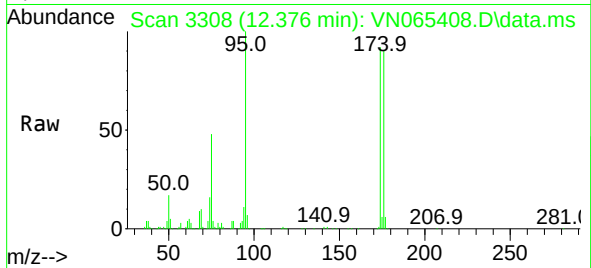




#76  
1,2,3-Trichloropropane  
Concen: 25.34 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. -0.151 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

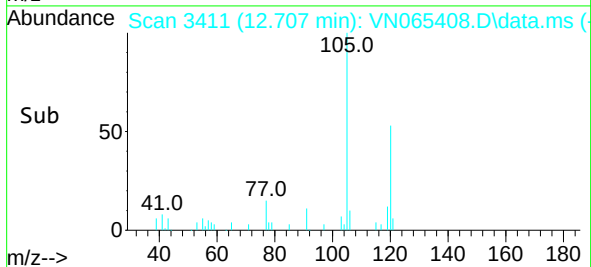
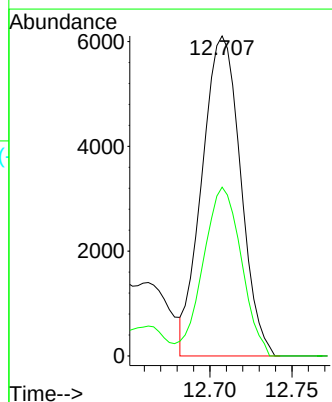
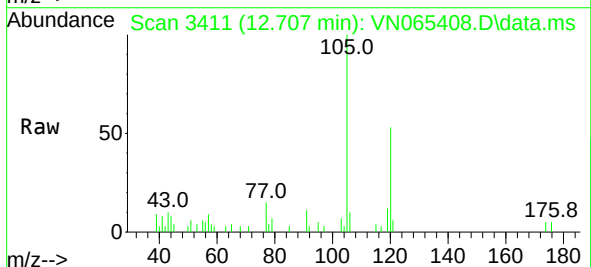
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ClientSampleId :  
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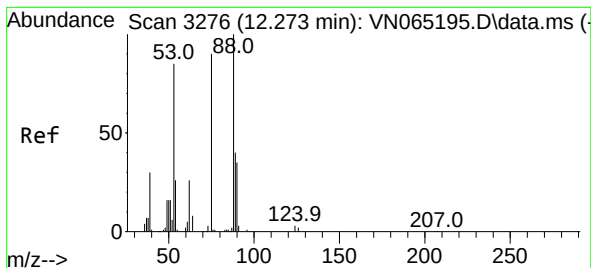
Tgt Ion: 75 Resp: 100863  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.79 ug/l  
RT: 12.707 min Scan# 3411  
Delta R.T. -0.001 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Tgt Ion:105 Resp: 9981  
Ion Ratio Lower Upper  
105 100  
120 52.2 24.6 73.6

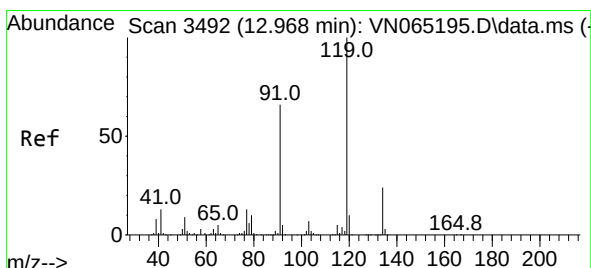
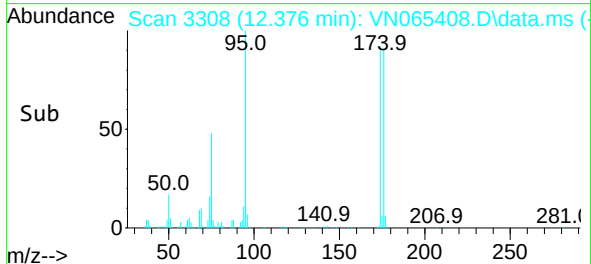
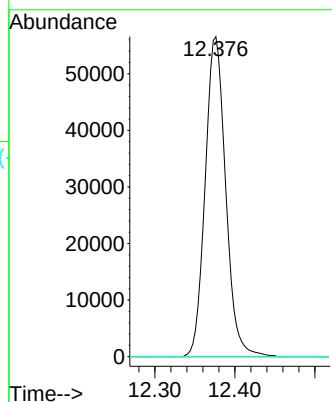
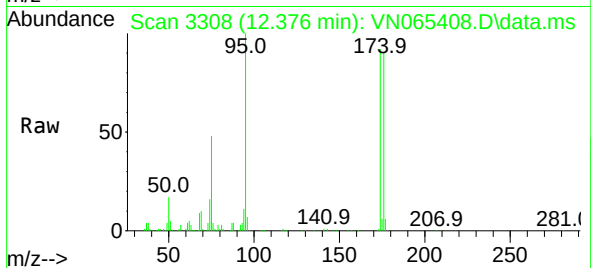




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 63.90 ug/l  
 RT: 12.376 min Scan# 3308  
 Delta R.T. 0.103 min  
 Lab File: VN065408.D  
 Acq: 6 Jan 2021 18:32

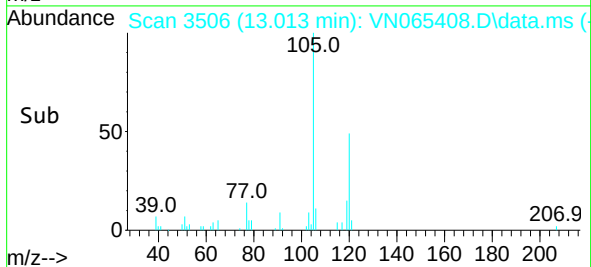
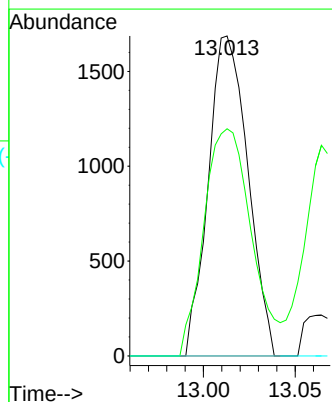
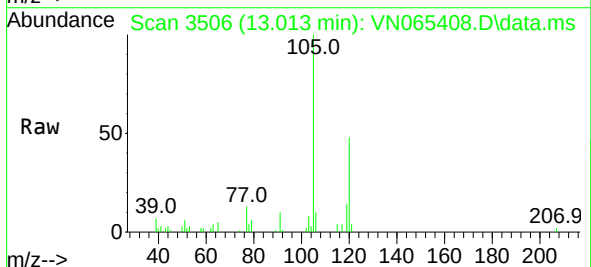
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 30732DL

Tgt Ion: 75 Resp: 100863  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.0 100.4#  
 89 0.0 39.6 59.4#

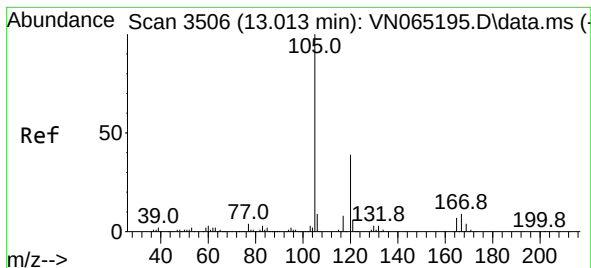


#83  
 tert-Butylbenzene  
 Concen: 0.23 ug/l  
 RT: 13.013 min Scan# 3506  
 Delta R.T. 0.045 min  
 Lab File: VN065408.D  
 Acq: 6 Jan 2021 18:32

Tgt Ion: 119 Resp: 2524  
 Ion Ratio Lower Upper  
 119 100  
 91 85.3 32.3 96.8  
 134 0.0 12.6 37.6#







#84

1,2,4-Trimethylbenzene

Concen: 1.66 ug/l

RT: 13.013 min Scan# 3506

Delta R.T. -0.000 min

Lab File: VN065408.D

Acq: 6 Jan 2021 18:32

Tgt Ion:105 Resp: 20441

Ion Ratio Lower Upper

105 100

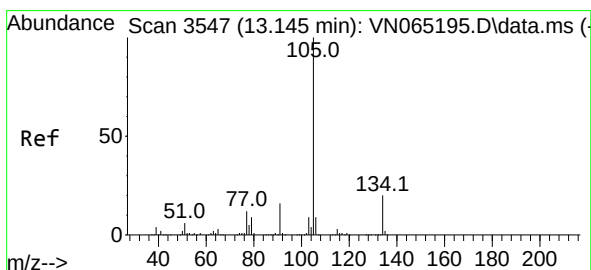
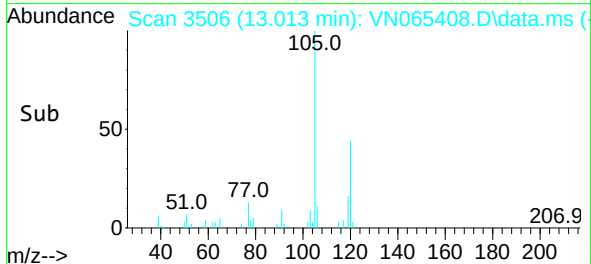
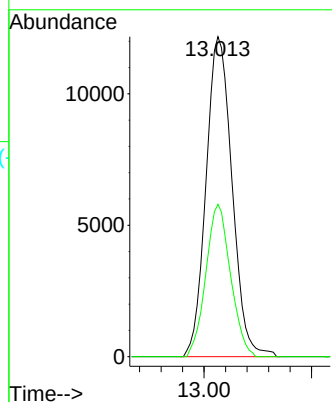
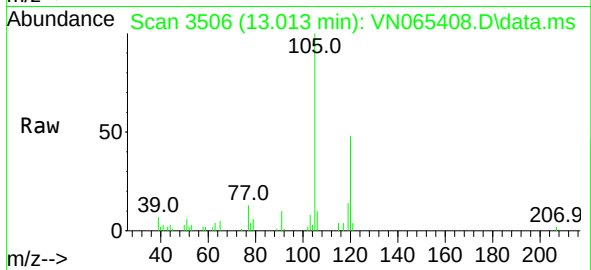
120 45.1 23.1 69.2

Instrument :

MSVOA\_N

ClientSampleId :

30732DL



#85

sec-Butylbenzene

Concen: 1.43 ug/l

RT: 13.013 min Scan# 3506

Delta R.T. -0.132 min

Lab File: VN065408.D

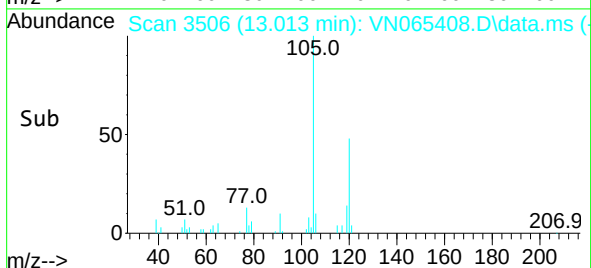
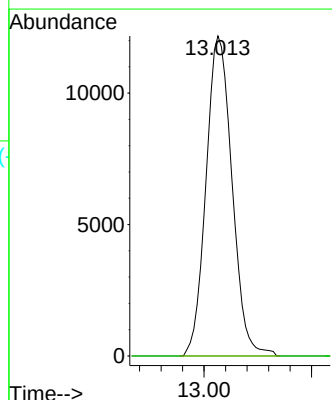
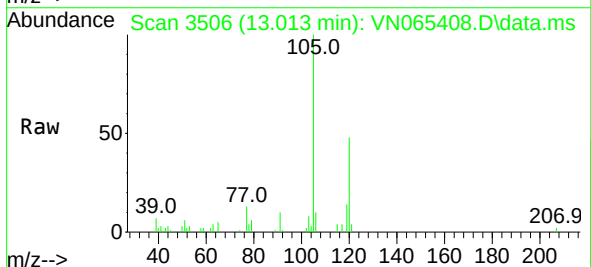
Acq: 6 Jan 2021 18:32

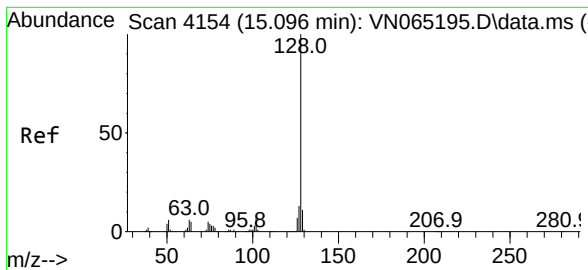
Tgt Ion:105 Resp: 20441

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#





#95  
Naphthalene  
Concen: 22.53 ug/l  
RT: 15.103 min Scan# 4156  
Delta R.T. 0.007 min  
Lab File: VN065408.D  
Acq: 6 Jan 2021 18:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
30732DL

Tgt Ion:128 Resp: 207690  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.3 15.5  
129 10.8 8.7 13.1

