

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN103122\  
 Data File : VN075091.D  
 Acq On : 31 Oct 2022 16:59  
 Operator : JC\MD  
 Sample : N5371-05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MH-7-WC

Quant Time: Nov 01 06:20:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 09:48:49 2022  
 Response via : Initial Calibration

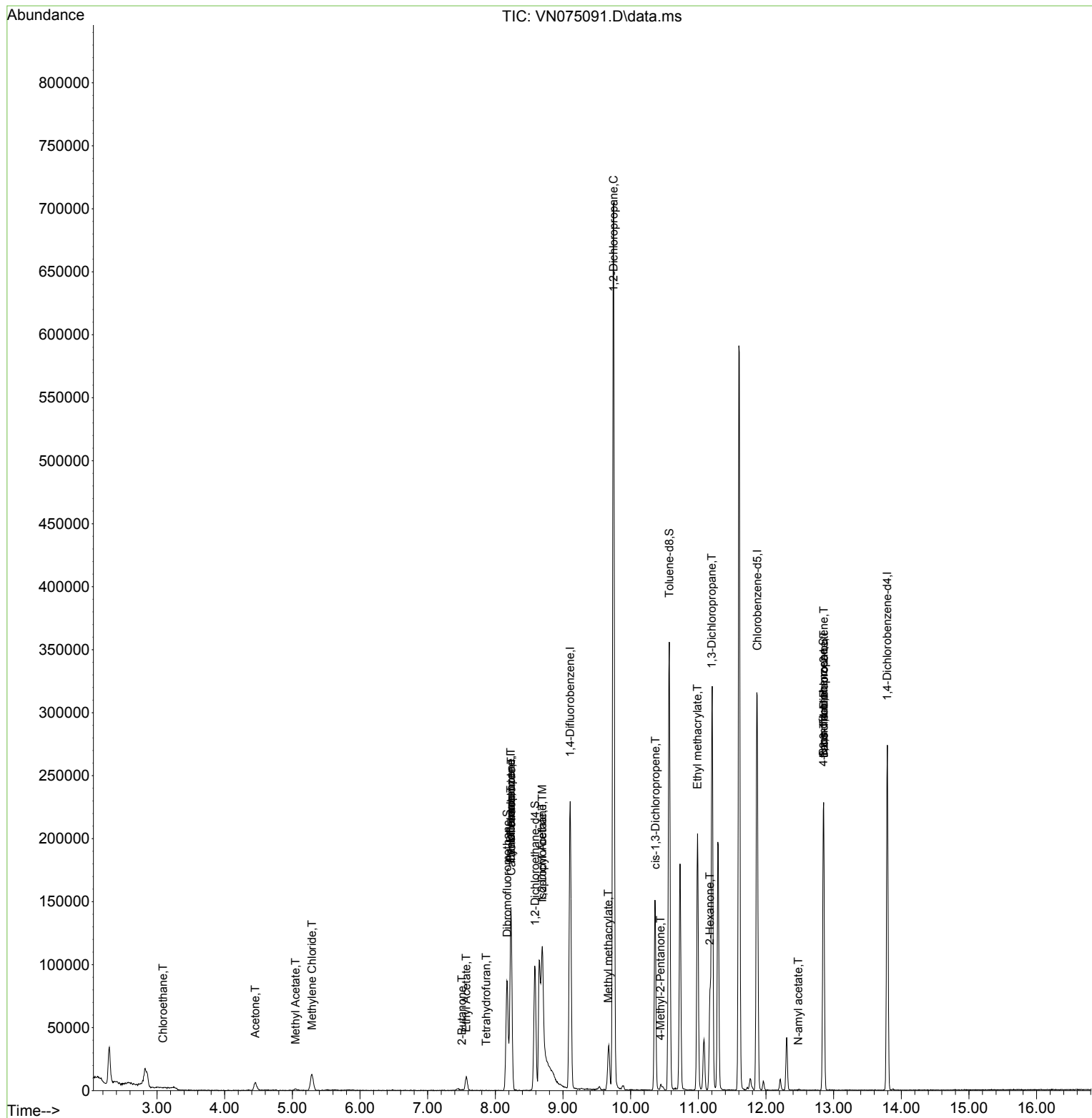
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 98237               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 198099              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 183646              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 68510               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588          | 65   | 80567               | 60.868    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 121.740% |           |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 61467               | 52.855    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 105.700% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 246109              | 54.547    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 109.100% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 77711               | 49.031    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 98.060%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 2.959          | 94   | 57                  | Below Cal | #      | 5        |
| 6) Chloroethane               | 3.089          | 64   | 406                 | 0.292     | ug/l # | 45       |
| 16) Acetone                   | 4.453          | 43   | 12589               | 22.462    | ug/l # | 88       |
| 18) Methyl Acetate            | 5.048          | 43   | 2493                | 1.362     | ug/l # | 71       |
| 20) Methylene Chloride        | 5.289          | 84   | 10702               | 8.564     | ug/l   | 90       |
| 25) 2-Butanone                | 7.506          | 43   | 1409                | 1.598     | ug/l # | 43       |
| 29) Tetrahydrofuran           | 7.865          | 42   | 176                 | 0.309     | ug/l # | 26       |
| 31) Cyclohexane               | 8.230          | 56   | 2328                | 1.183     | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 8877                | 4.930     | ug/l # | 47       |
| 37) Ethyl Acetate             | 7.571          | 43   | 15082               | 7.638     | ug/l   | 100      |
| 38) Carbon Tetrachloride      | 8.236          | 117  | 11102               | 5.606     | ug/l # | 18       |
| 42) 1,2-Dichloroethane        | 8.694          | 62   | 743                 | 0.370     | ug/l # | 75       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 169612              | 55.380    | ug/l # | 71       |
| 45) 1,2-Dichloropropane       | 9.747          | 63   | 783                 | 0.597     | ug/l # | 42       |
| 48) Methyl methacrylate       | 9.671          | 41   | 2055                | 1.463     | ug/l # | 35       |
| 51) 4-Methyl-2-Pentanone      | 10.441         | 43   | 2891                | 1.463     | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 10.365         | 75   | 27844               | 12.566    | ug/l # | 63       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 726                 | 0.326     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200         | 76   | 3426                | 1.408     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.171         | 43   | 58955               | 39.303    | ug/l # | 21       |
| 71) Bromoform                 | 12.853         | 173  | 612                 | 0.562     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.476         | 43   | 447                 | 0.220     | ug/l # | 38       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 44102               | 30.318    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 44102               | 77.826    | ug/l # | 10       |
| -----                         |                |      |                     |           |        |          |

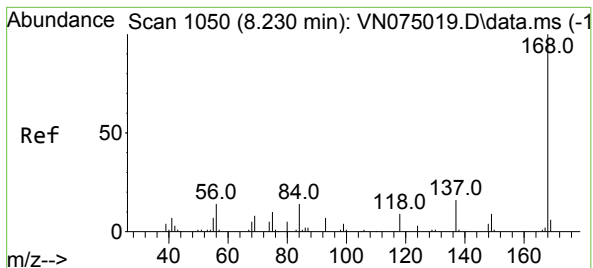
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Quant Title : SW846 8260  
QLast Update : Thu Oct 27 09:48:49 2022  
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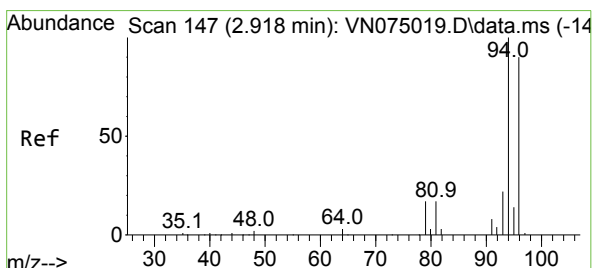
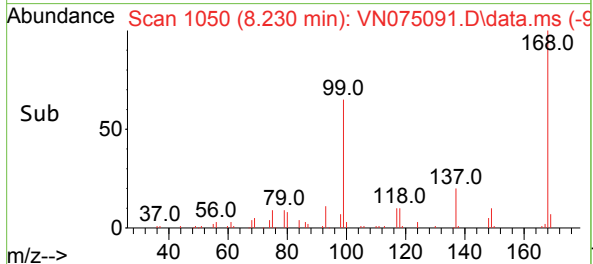
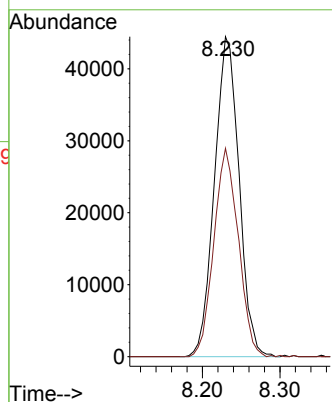
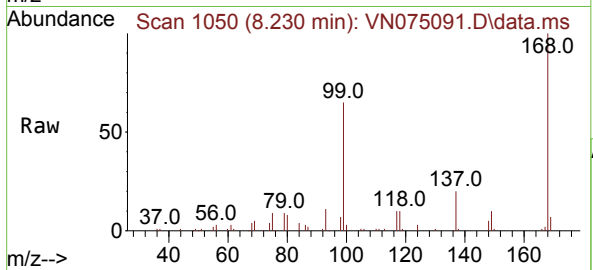




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

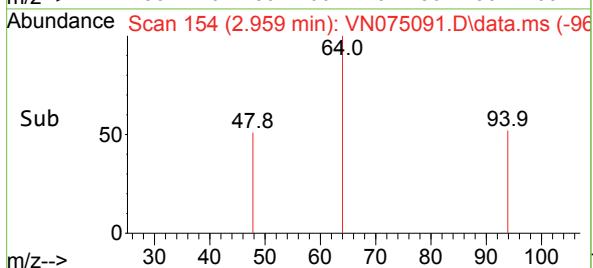
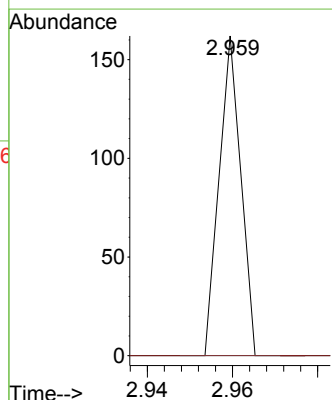
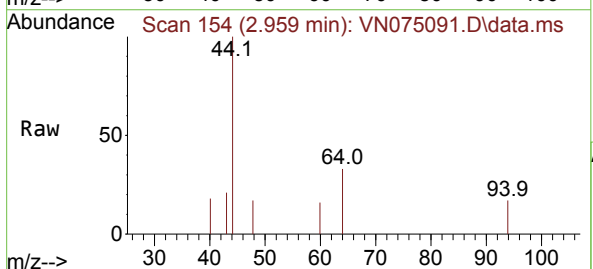
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

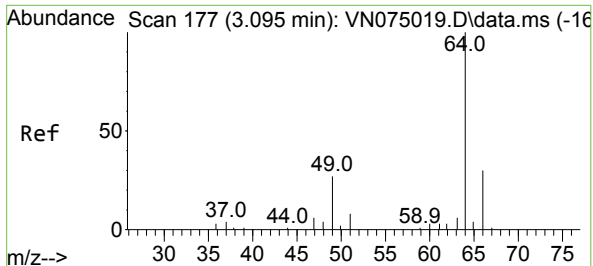
Tgt Ion:168 Resp: 98237  
Ion Ratio Lower Upper  
168 100  
99 65.1 51.6 77.4



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.959 min Scan# 154  
Delta R.T. 0.041 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 94 Resp: 57  
Ion Ratio Lower Upper  
94 100  
96 0.0 71.8 107.6#

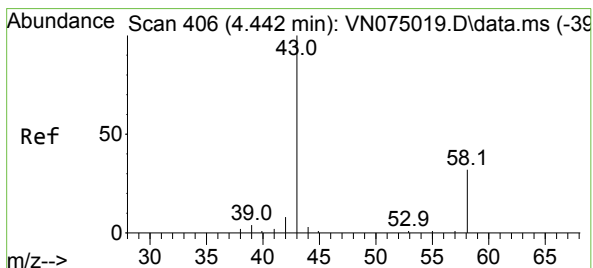
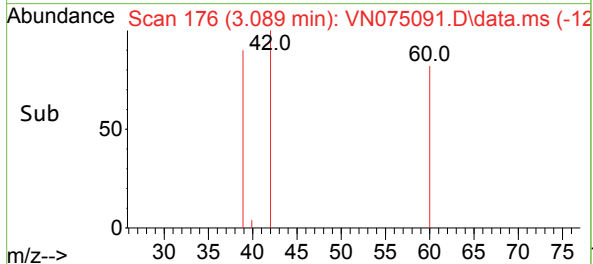
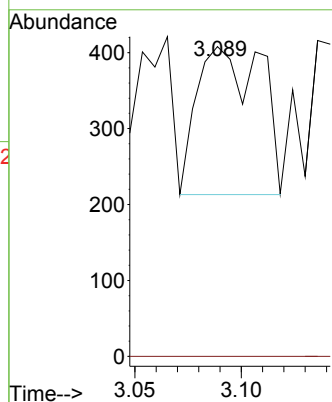
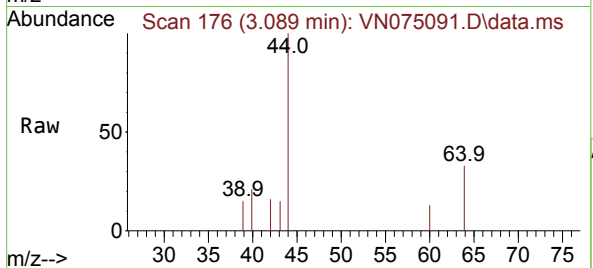




#6  
Chloroethane  
Concen: 0.292 ug/l  
RT: 3.089 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

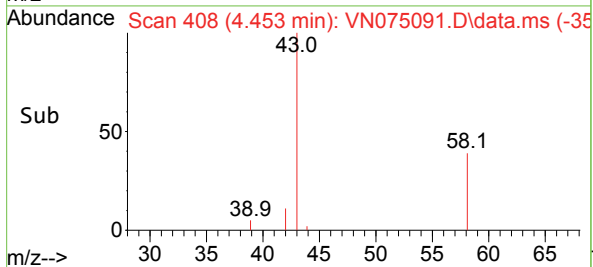
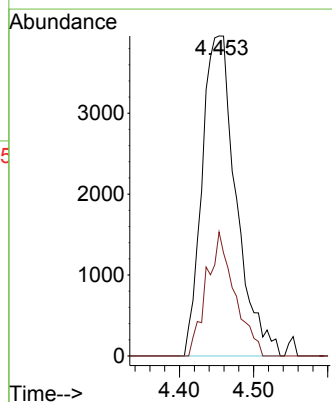
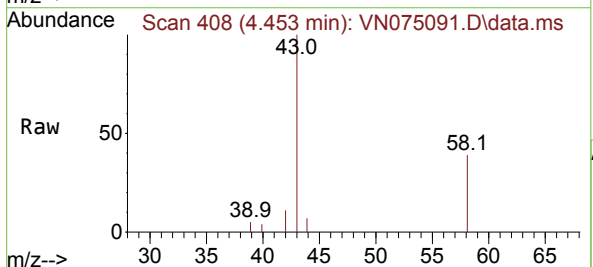
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

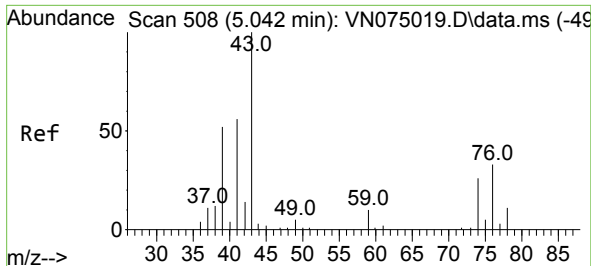
Tgt Ion: 64 Resp: 406  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.8 35.8#



#16  
Acetone  
Concen: 22.462 ug/l  
RT: 4.453 min Scan# 408  
Delta R.T. 0.011 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 43 Resp: 12589  
Ion Ratio Lower Upper  
43 100  
58 38.7 25.5 38.3#

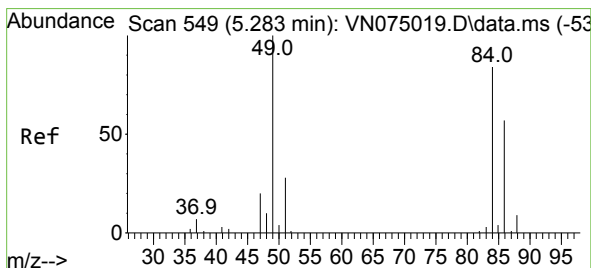
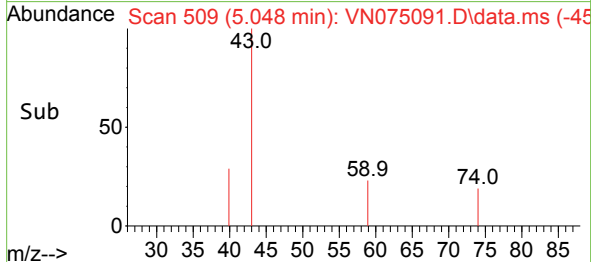
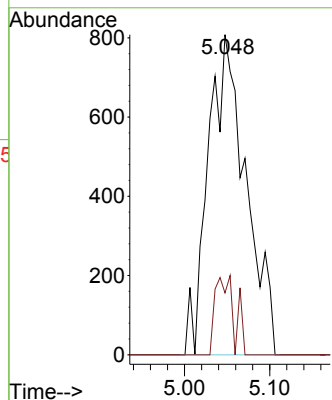
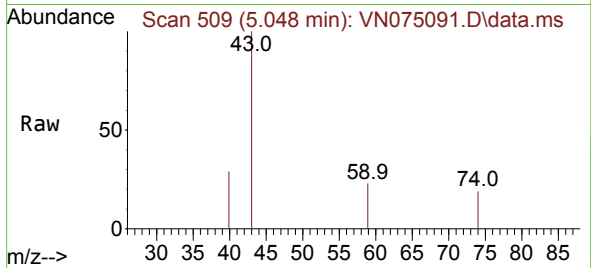




#18  
Methyl Acetate  
Concen: 1.362 ug/l  
RT: 5.048 min Scan# 508  
Delta R.T. 0.006 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

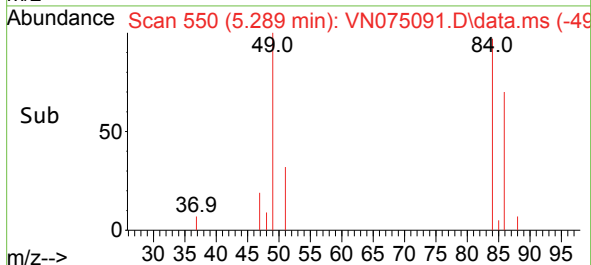
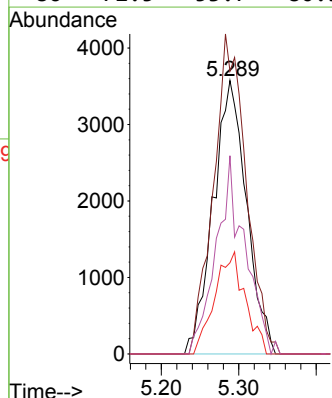
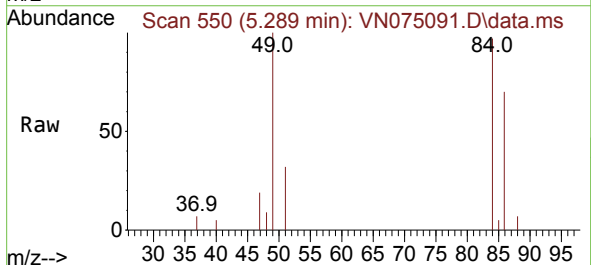
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

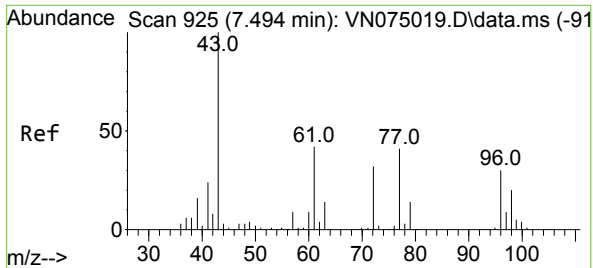
Tgt Ion: 43 Resp: 2493  
Ion Ratio Lower Upper  
43 100  
74 12.6 22.0 33.0#



#20  
Methylene Chloride  
Concen: 8.564 ug/l  
RT: 5.289 min Scan# 550  
Delta R.T. 0.006 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 84 Resp: 10702  
Ion Ratio Lower Upper  
84 100  
49 103.4 94.9 142.3  
51 33.4 26.8 40.2  
86 72.5 53.7 80.5

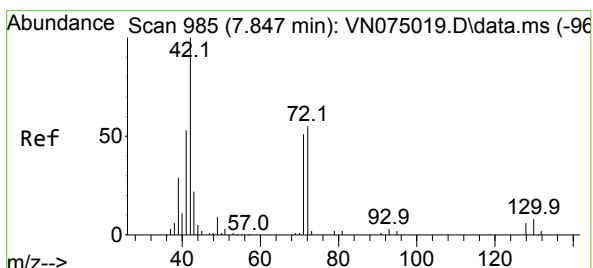
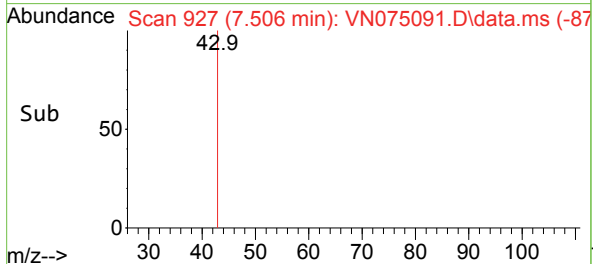
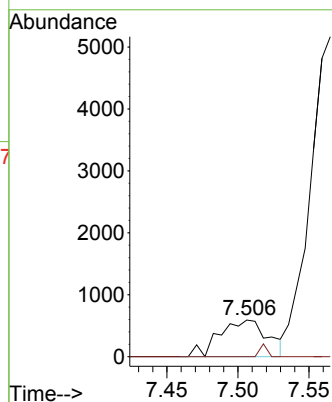
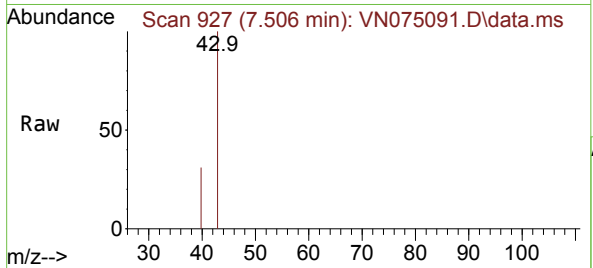




#25  
2-Butanone  
Concen: 1.598 ug/l  
RT: 7.506 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

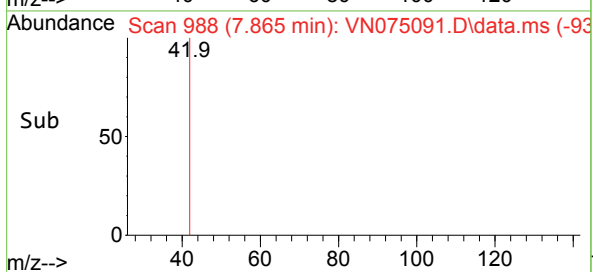
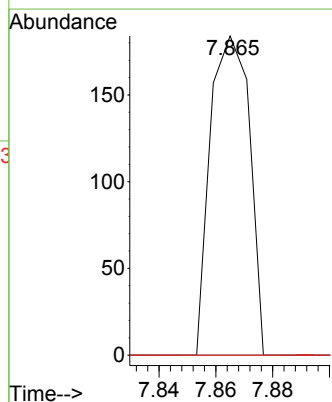
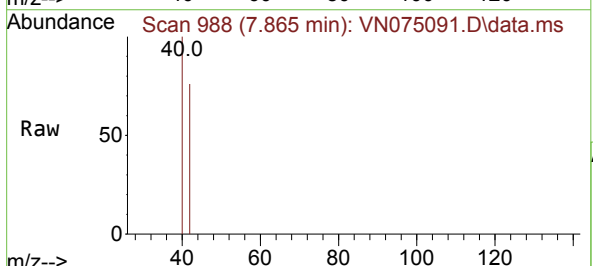
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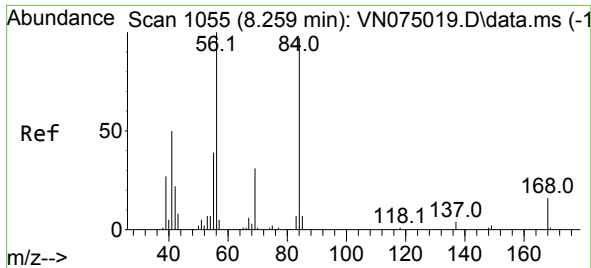
Tgt Ion: 43 Resp: 1409  
Ion Ratio Lower Upper  
43 100  
72 0.0 25.5 38.3#



#29  
Tetrahydrofuran  
Concen: 0.309 ug/l  
RT: 7.865 min Scan# 988  
Delta R.T. 0.018 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

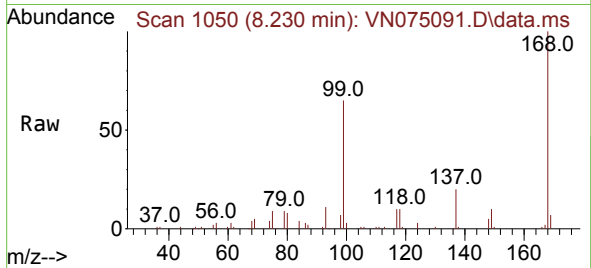
Tgt Ion: 42 Resp: 176  
Ion Ratio Lower Upper  
42 100  
72 0.0 43.0 64.6#  
71 0.0 39.9 59.9#



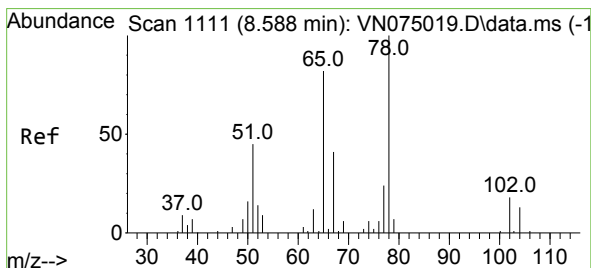
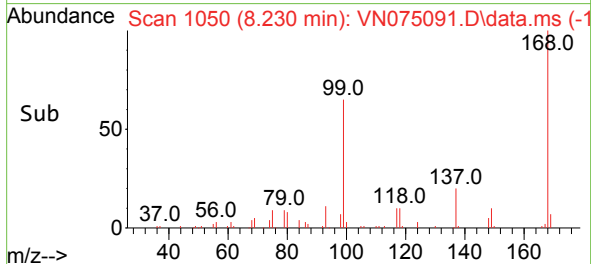
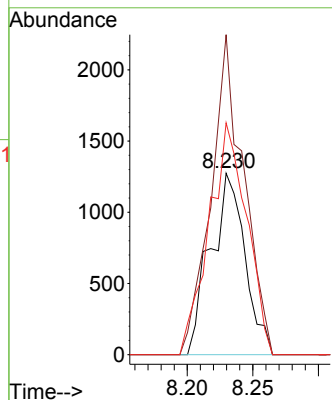


#31  
Cyclohexane  
Concen: 1.183 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.029 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Instrument :  
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ClientSampleId :  
MH-7-WC

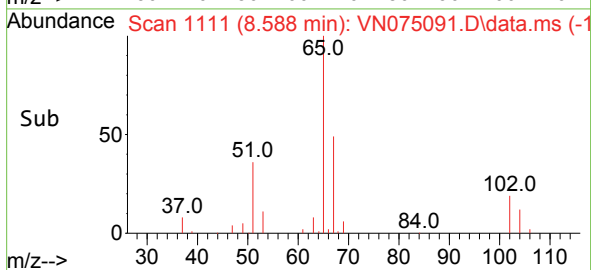
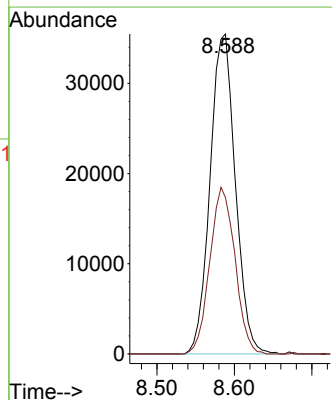
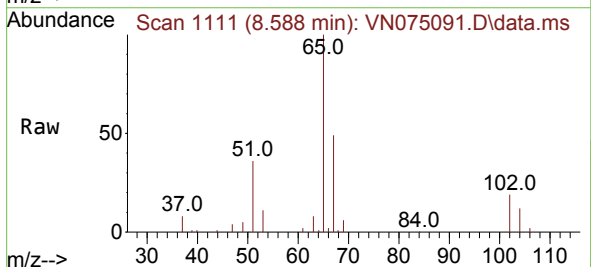


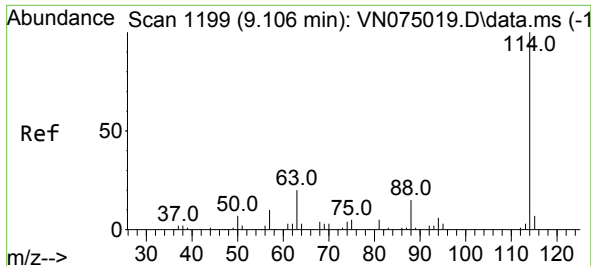
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Ion Ratio Lower Upper  
56 100  
69 176.4 25.2 37.8#  
84 127.8 77.8 116.8#



#33  
1,2-Dichloroethane-d4  
Concen: 60.868 ug/l  
RT: 8.588 min Scan# 1111  
Delta R.T. 0.000 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 65 Resp: 80567  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075091.D

Acq: 31 Oct 2022 16:59

Instrument :

MSVOA\_N

ClientSampleId :

MH-7-WC

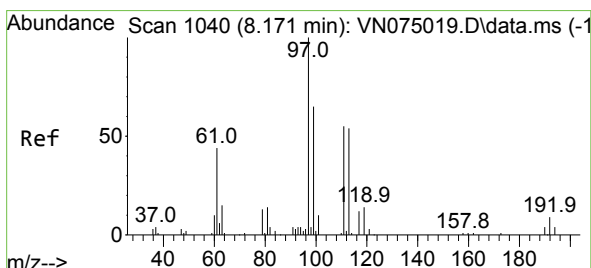
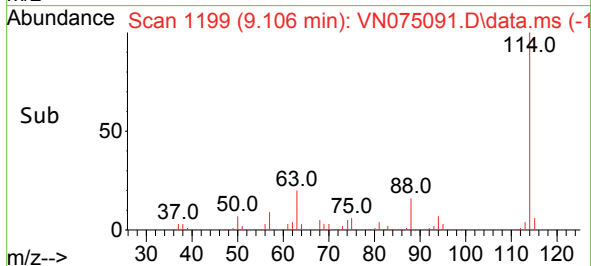
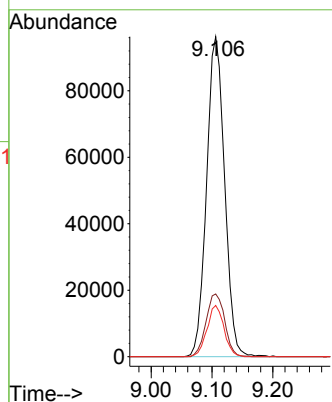
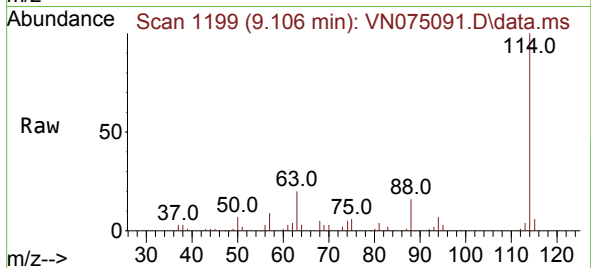
Tgt Ion:114 Resp: 198099

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 16.0 0.0 29.0



#35

Dibromofluoromethane

Concen: 52.855 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN075091.D

Acq: 31 Oct 2022 16:59

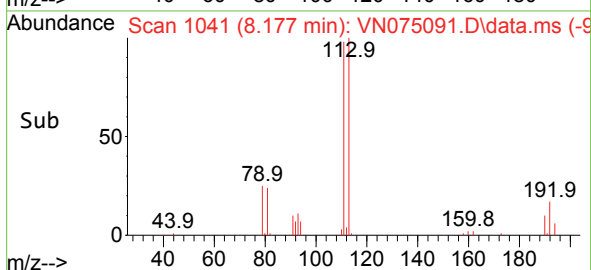
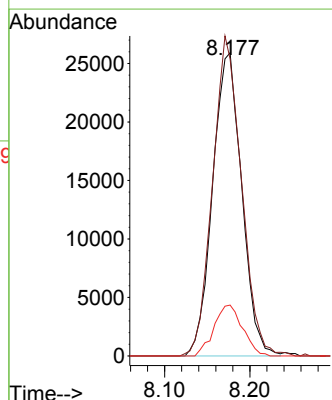
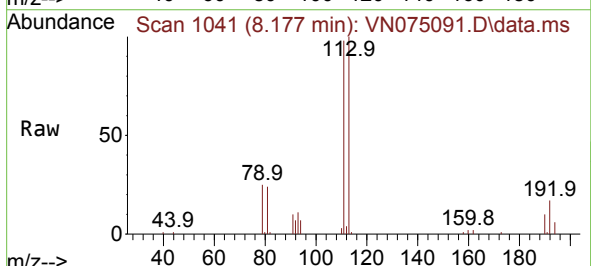
Tgt Ion:113 Resp: 61467

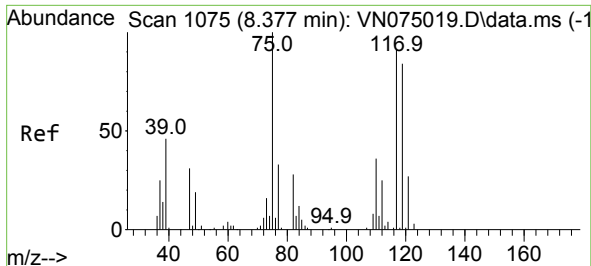
Ion Ratio Lower Upper

113 100

111 104.4 80.5 120.7

192 16.5 13.2 19.8

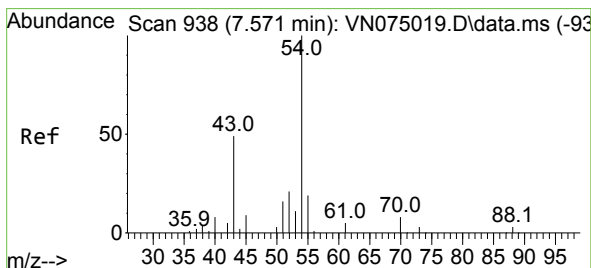
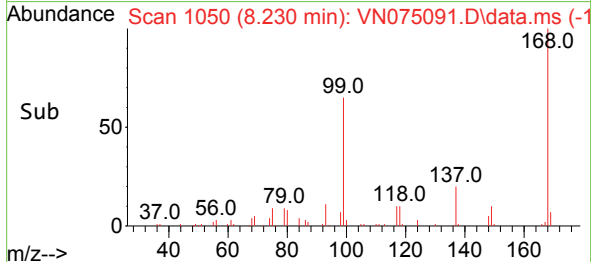
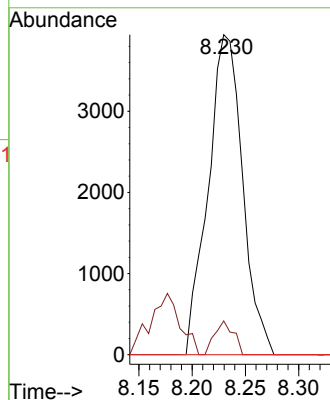
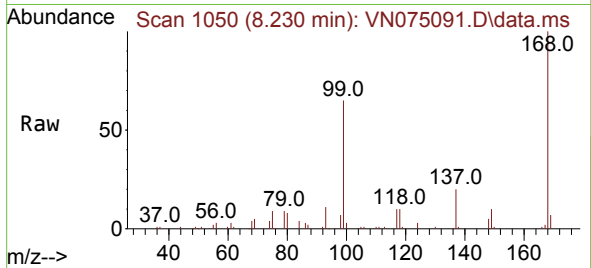




#36  
1,1-Dichloropropene  
Concen: 4.930 ug/l  
RT: 8.230 min Scan# 1075  
Delta R.T. -0.147 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

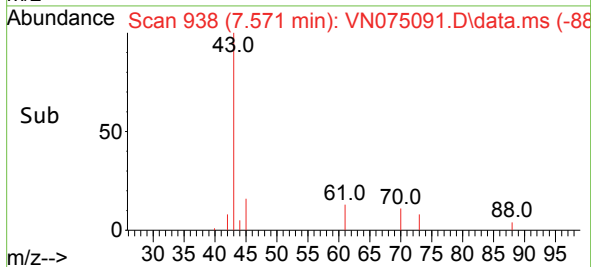
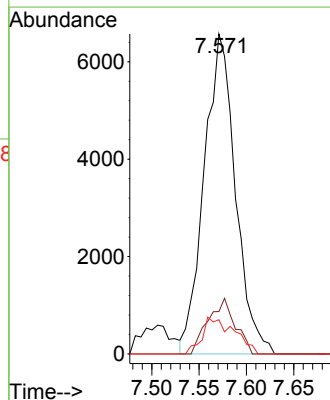
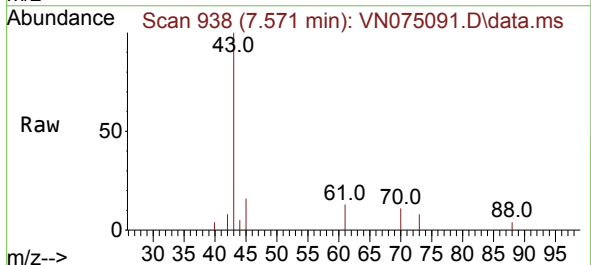
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

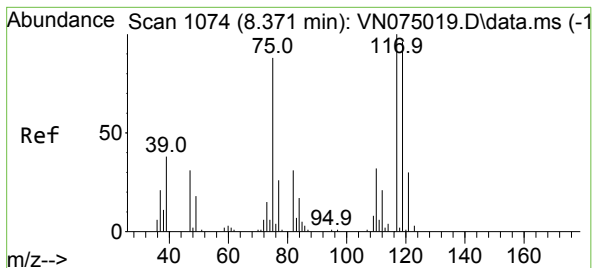
Tgt Ion: 75 Resp: 8877  
Ion Ratio Lower Upper  
75 100  
110 5.8 17.8 53.3#  
77 0.0 24.6 37.0#



#37  
Ethyl Acetate  
Concen: 7.638 ug/l  
RT: 7.571 min Scan# 938  
Delta R.T. -0.000 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 43 Resp: 15082  
Ion Ratio Lower Upper  
43 100  
61 15.1 12.2 18.4  
70 11.7 9.4 14.2





#38

Carbon Tetrachloride

Concen: 5.606 ug/l

RT: 8.236 min Scan# 1102

Delta R.T. -0.135 min

Lab File: VN075091.D

Acq: 31 Oct 2022 16:59

Instrument :

MSVOA\_N

ClientSampleId :

MH-7-WC

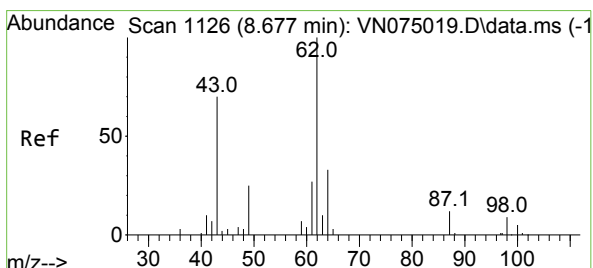
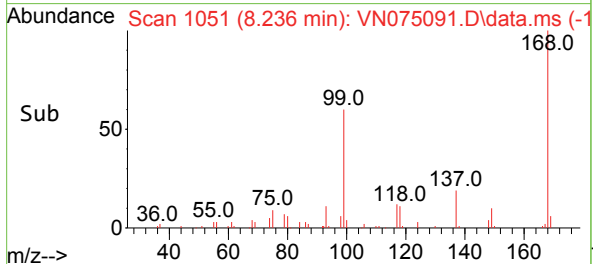
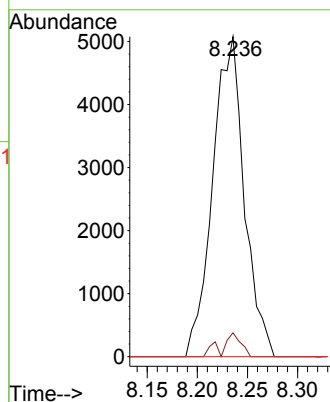
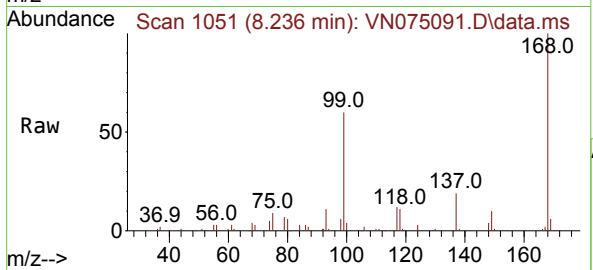
Tgt Ion:117 Resp: 11102

Ion Ratio Lower Upper

117 100

119 7.5 76.7 115.1#

121 0.0 23.9 35.9#



#42

1,2-Dichloroethane

Concen: 0.370 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.017 min

Lab File: VN075091.D

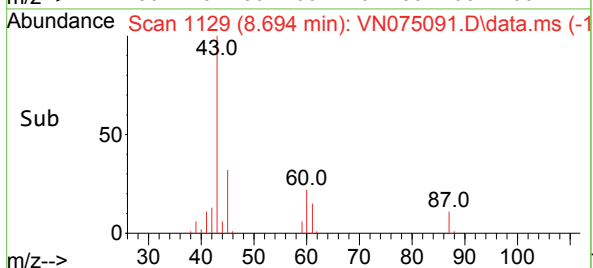
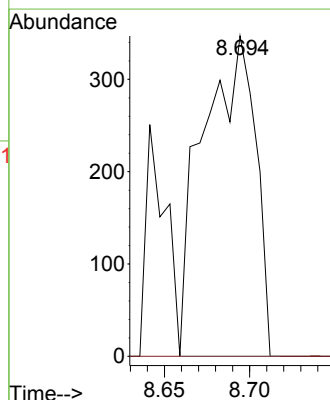
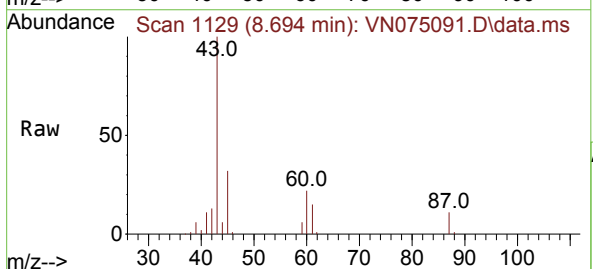
Acq: 31 Oct 2022 16:59

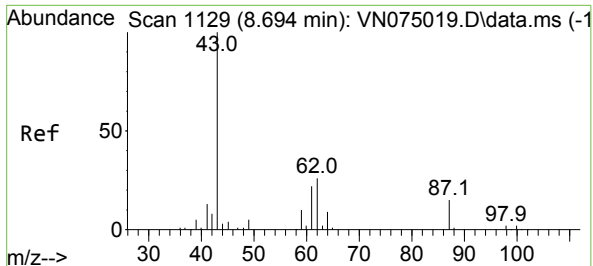
Tgt Ion: 62 Resp: 743

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2

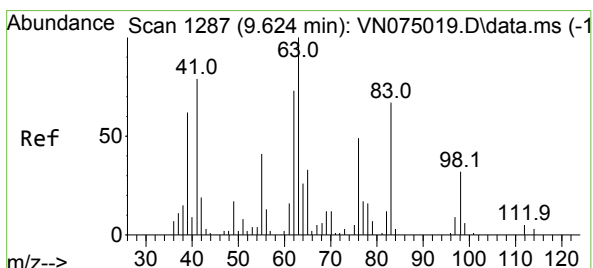
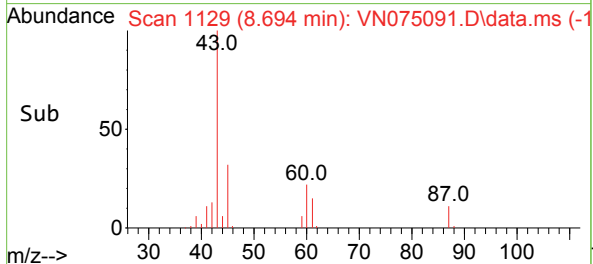
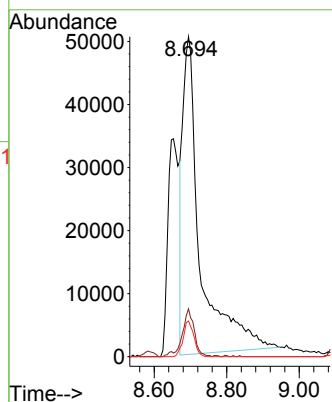
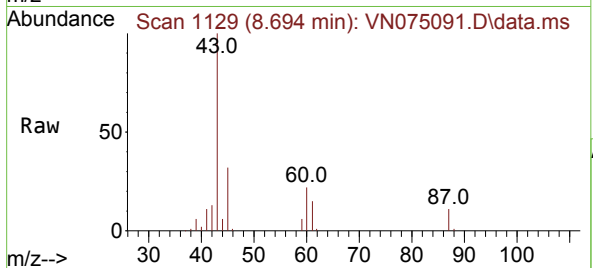




#43  
Isopropyl Acetate  
Concen: 55.380 ug/l  
RT: 8.694 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

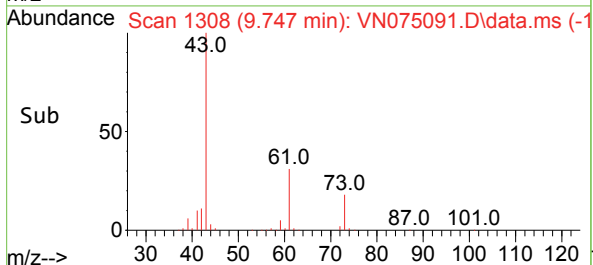
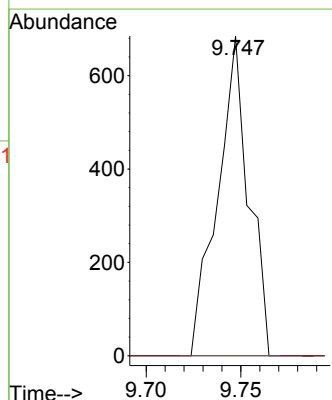
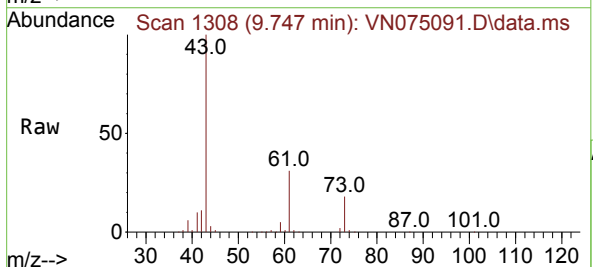
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

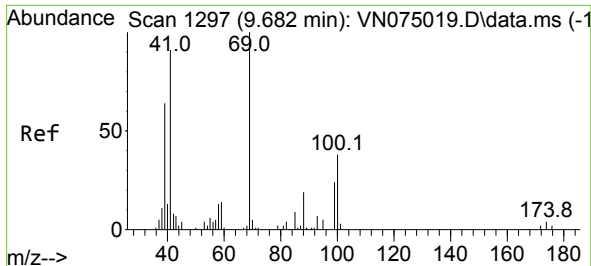
Tgt Ion: 43 Resp: 169612  
Ion Ratio Lower Upper  
43 100  
61 10.2 22.4 33.6#  
87 6.8 12.5 18.7#



#45  
1,2-Dichloropropane  
Concen: 0.597 ug/l  
RT: 9.747 min Scan# 1308  
Delta R.T. 0.123 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 63 Resp: 783  
Ion Ratio Lower Upper  
63 100  
65 0.0 26.1 39.1#





#48

Methyl methacrylate

Concen: 1.463 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN075091.D

Acq: 31 Oct 2022 16:59

Instrument :

MSVOA\_N

ClientSampleId :

MH-7-WC

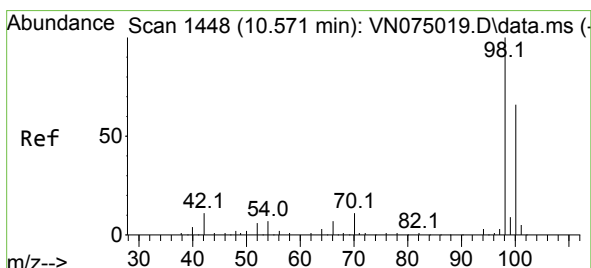
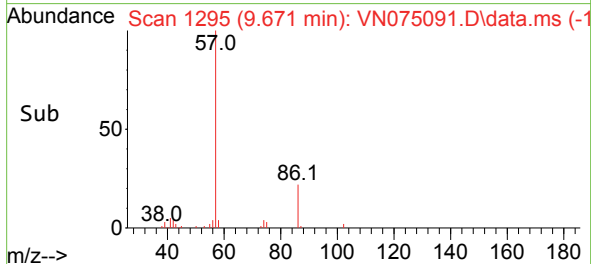
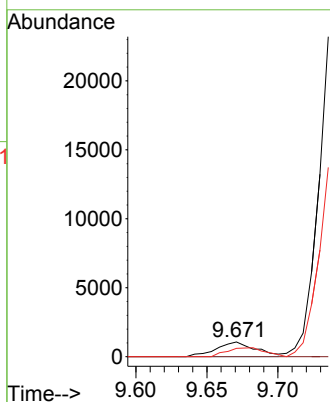
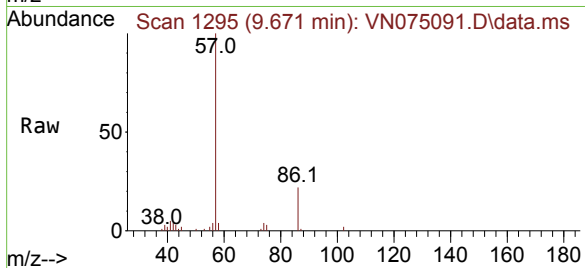
Tgt Ion: 41 Resp: 2055

Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 58.6 56.2 84.2



#50

Toluene-d8

Concen: 54.547 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN075091.D

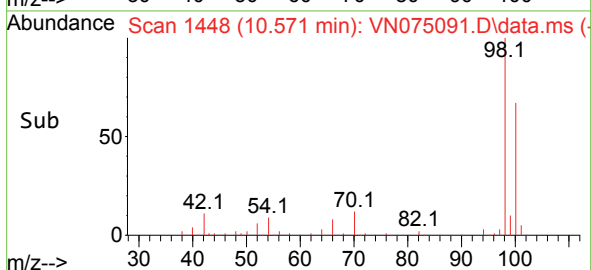
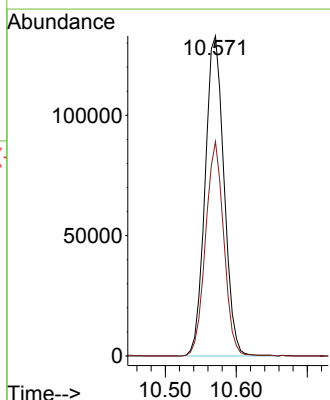
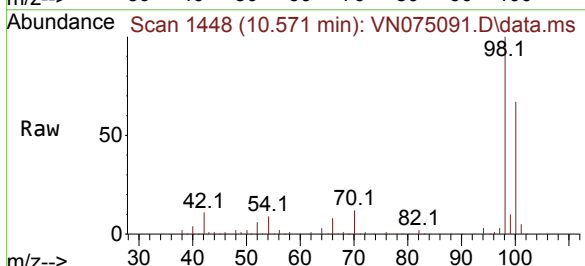
Acq: 31 Oct 2022 16:59

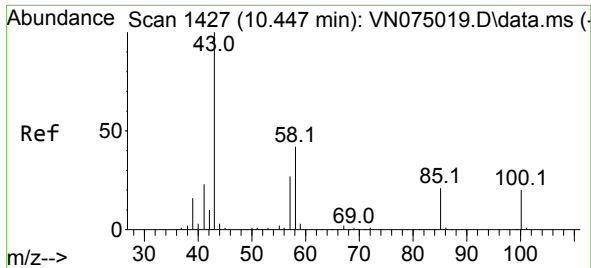
Tgt Ion: 98 Resp: 246109

Ion Ratio Lower Upper

98 100

100 64.5 53.0 79.6

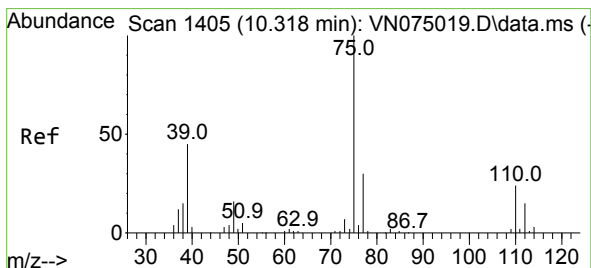
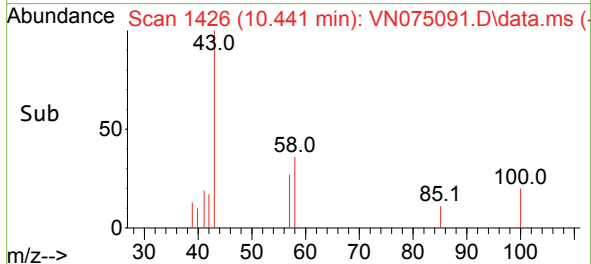
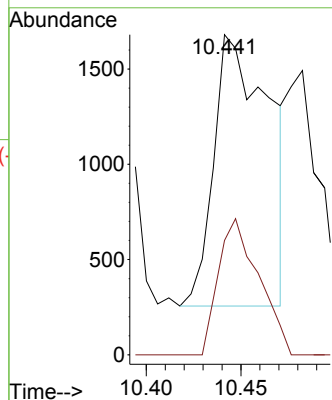
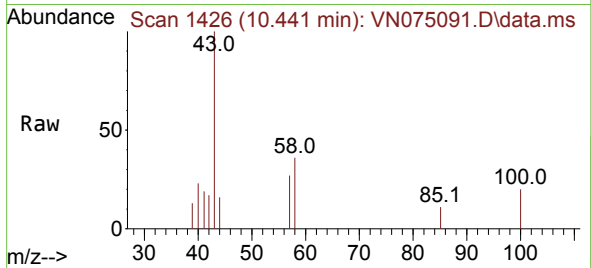




#51  
4-Methyl-2-Pentanone  
Concen: 1.463 ug/l  
RT: 10.441 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

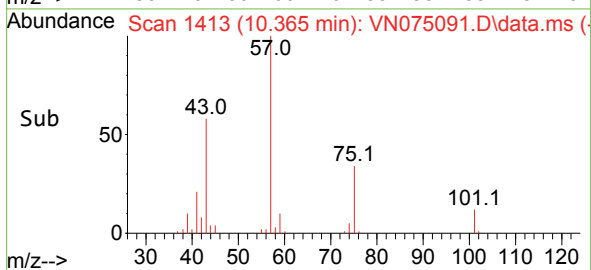
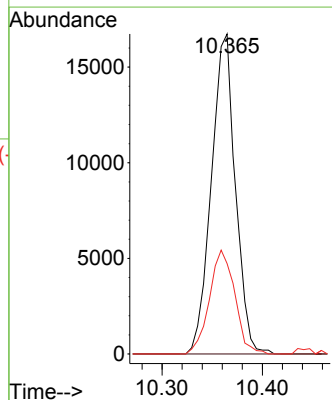
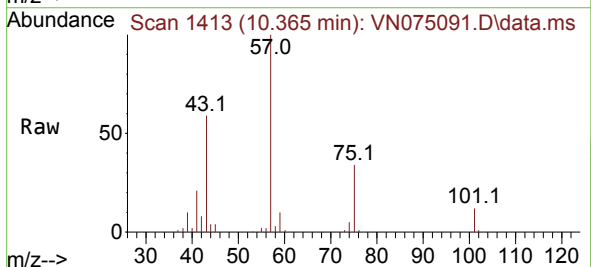
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

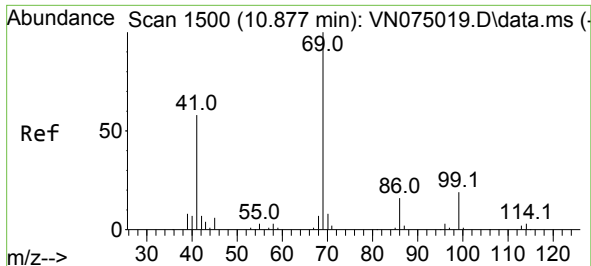
Tgt Ion: 43 Resp: 2891  
Ion Ratio Lower Upper  
43 100  
58 36.7 33.6 50.4



#54  
cis-1,3-Dichloropropene  
Concen: 12.566 ug/l  
RT: 10.365 min Scan# 1413  
Delta R.T. 0.047 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 75 Resp: 27844  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.7 35.5#  
39 28.3 35.8 53.6#

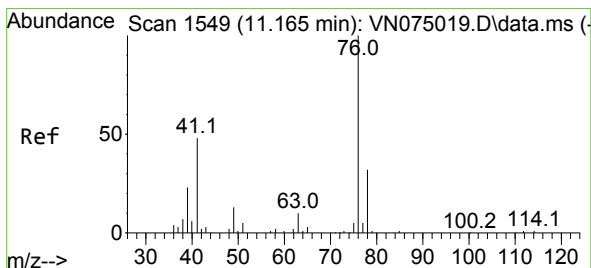
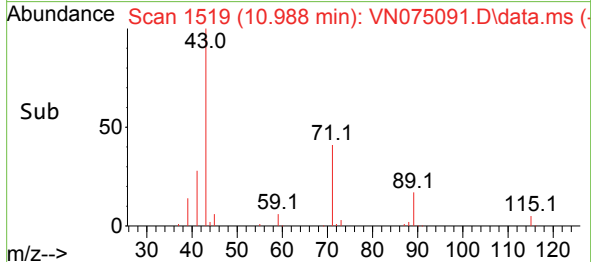
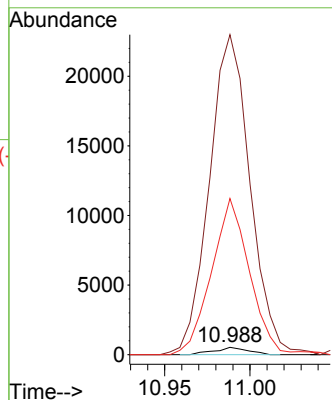
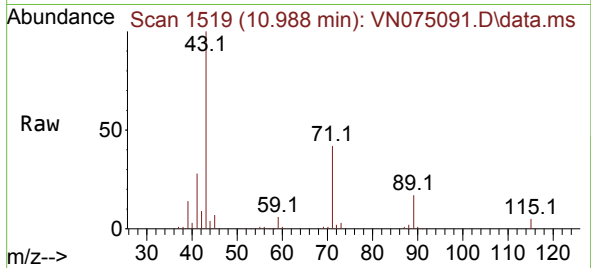




#56  
Ethyl methacrylate  
Concen: 0.326 ug/l  
RT: 10.988 min Scan# 1519  
Delta R.T. 0.111 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

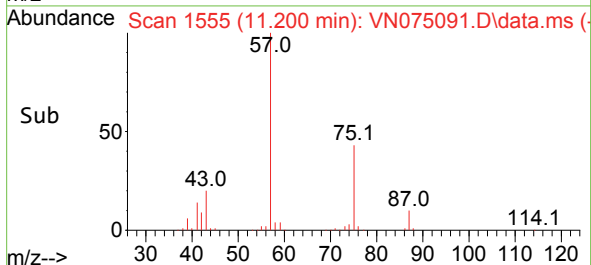
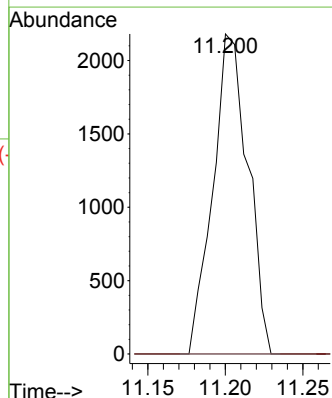
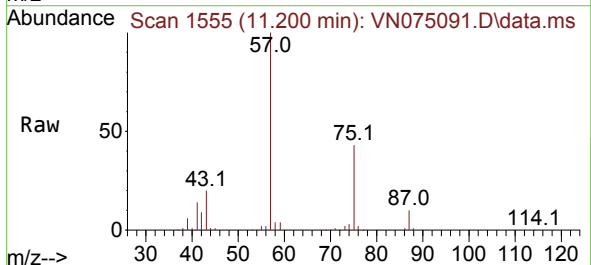
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

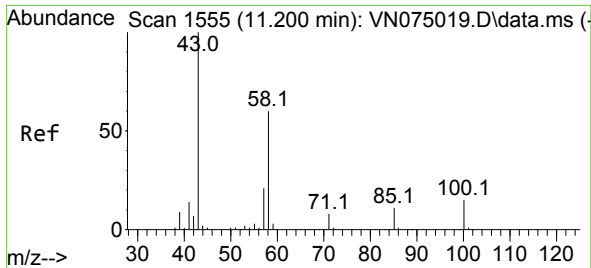
Tgt Ion: 69 Resp: 726  
Ion Ratio Lower Upper  
69 100  
41 5272.2 45.6 68.4#  
39 2408.7 28.5 42.7#



#57  
1,3-Dichloropropane  
Concen: 1.408 ug/l  
RT: 11.200 min Scan# 1555  
Delta R.T. 0.035 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 76 Resp: 3426  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

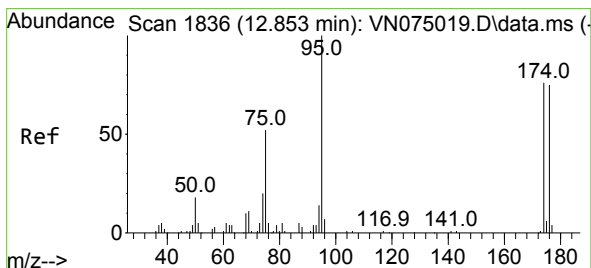
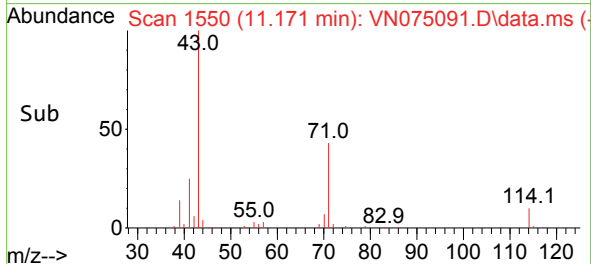
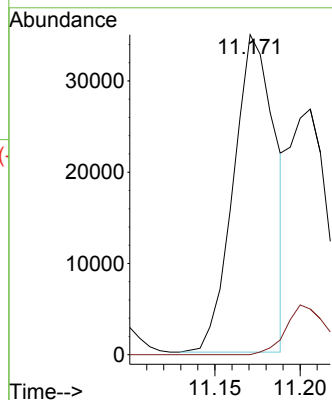
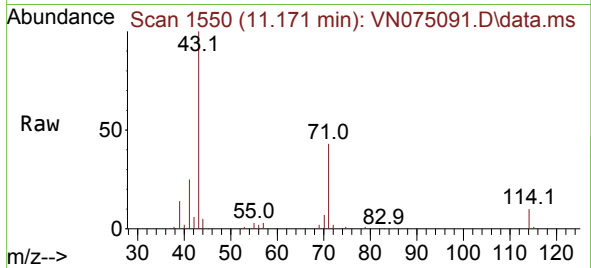




#59  
2-Hexanone  
Concen: 39.303 ug/l  
RT: 11.171 min Scan# 111  
Delta R.T. -0.029 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

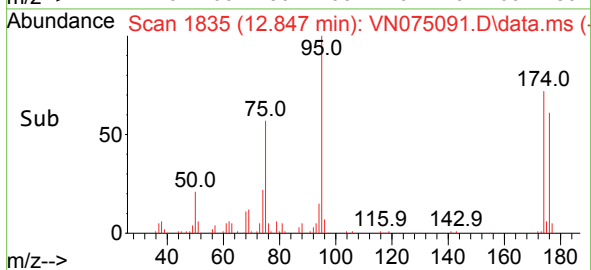
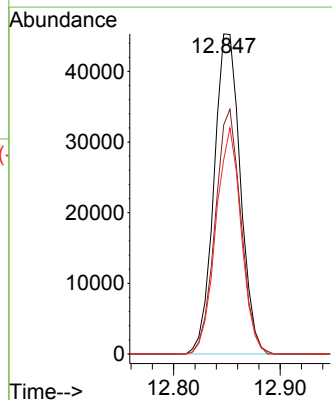
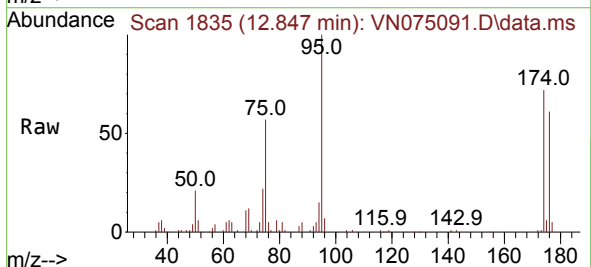
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

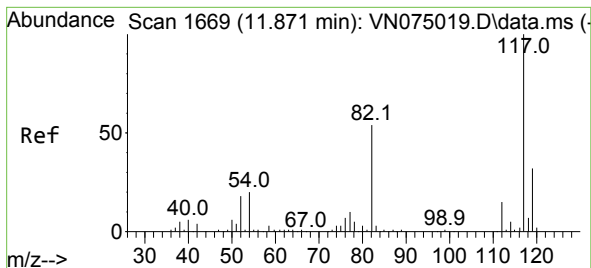
Tgt Ion: 43 Resp: 58955  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.6 88.8#



#62  
4-Bromofluorobenzene  
Concen: 49.031 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.006 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 95 Resp: 77711  
Ion Ratio Lower Upper  
95 100  
174 74.6 0.0 147.4  
176 68.0 0.0 142.2

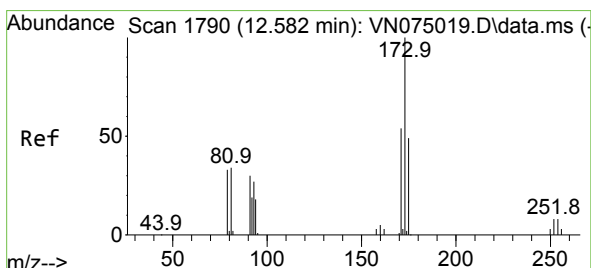
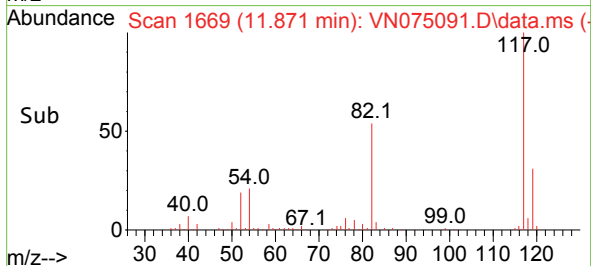
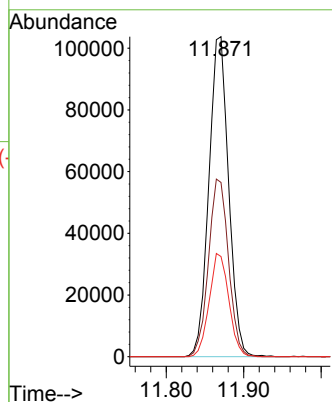
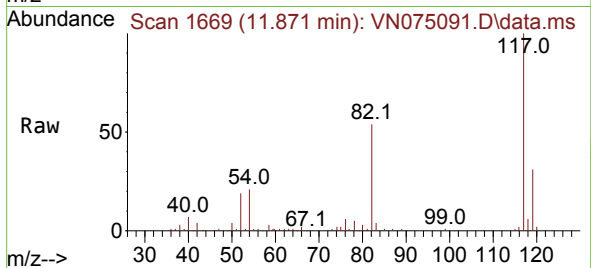




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

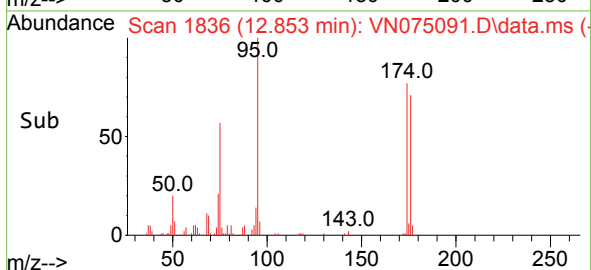
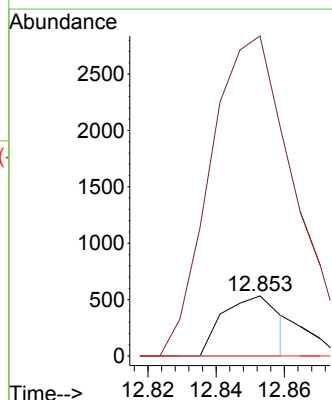
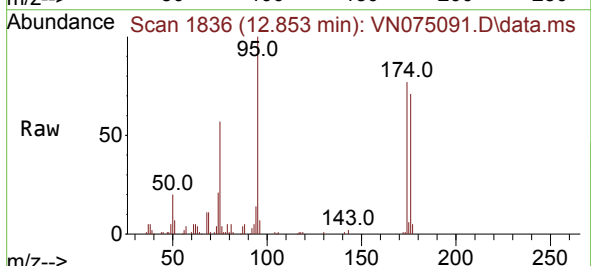
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

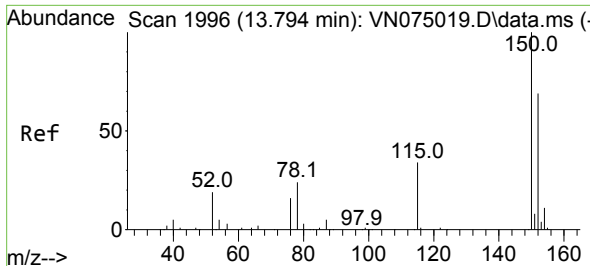
Tgt Ion:117 Resp: 183646  
Ion Ratio Lower Upper  
117 100  
82 54.4 43.1 64.7  
119 31.3 25.5 38.3



#71  
Bromoform  
Concen: 0.562 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.271 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion:173 Resp: 612  
Ion Ratio Lower Upper  
173 100  
175 651.6 24.6 74.0#  
254 0.0 0.0 0.0

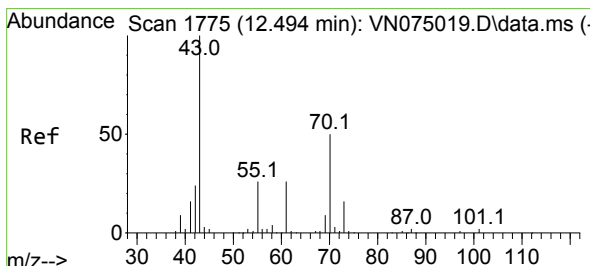
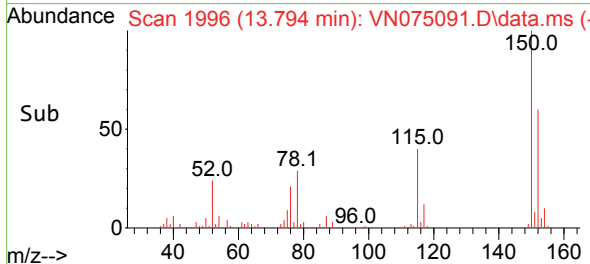
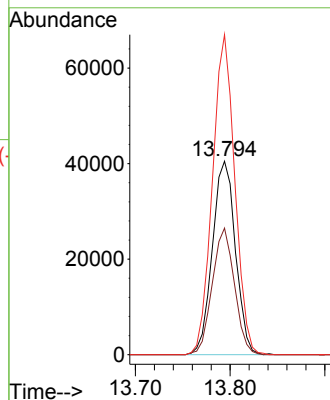
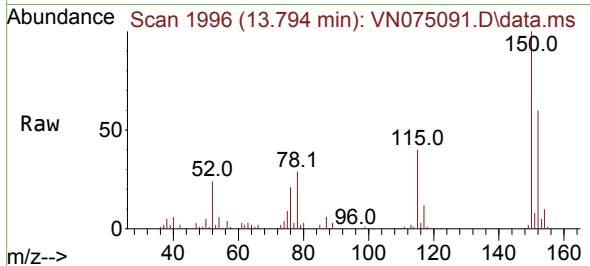




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

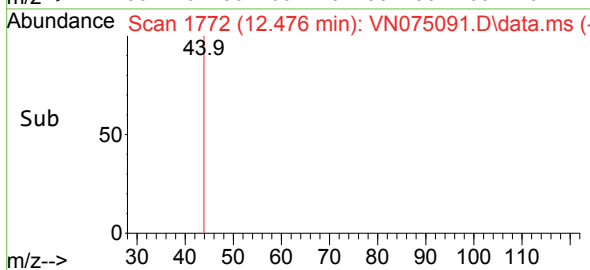
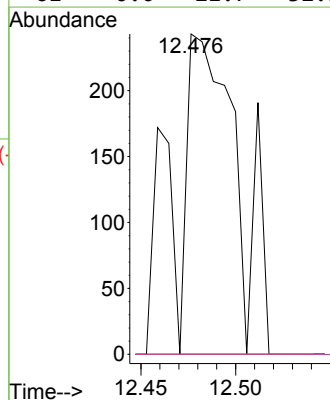
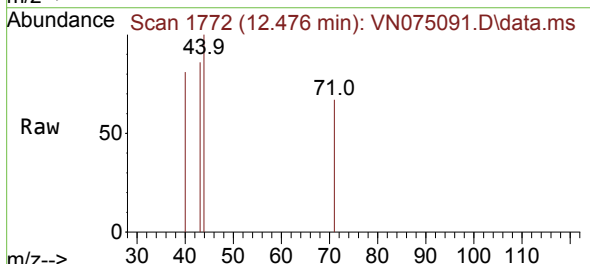
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

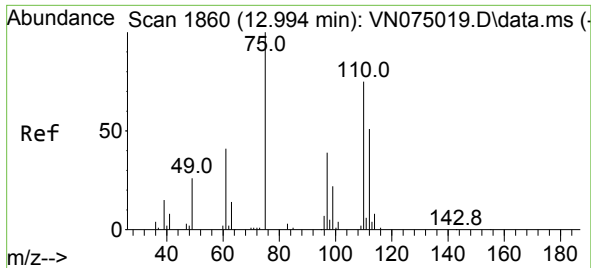
Tgt Ion:152 Resp: 68510  
Ion Ratio Lower Upper  
152 100  
115 63.0 30.2 90.6  
150 160.0 0.0 348.4



#74  
N-ethyl acetate  
Concen: 0.220 ug/l  
RT: 12.476 min Scan# 1772  
Delta R.T. -0.018 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 43 Resp: 447  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.8 59.8#  
55 0.0 19.9 29.9#  
61 0.0 21.7 32.5#

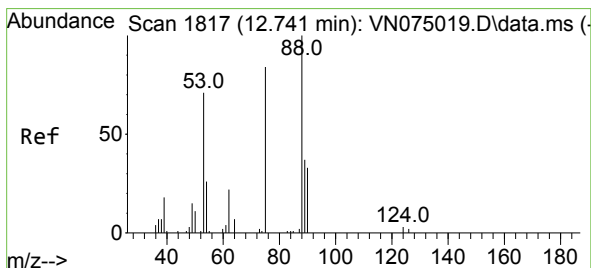
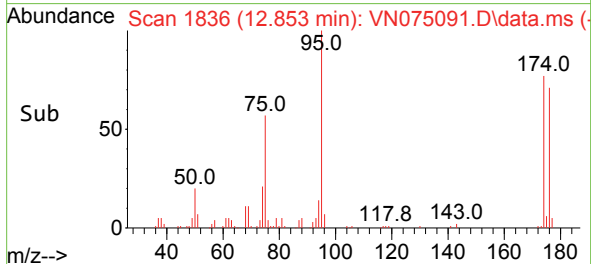
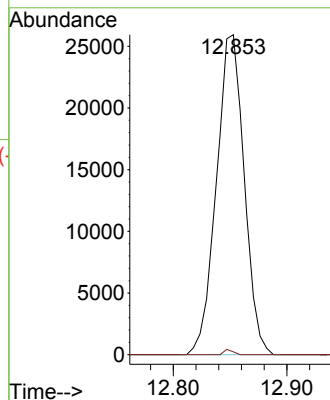
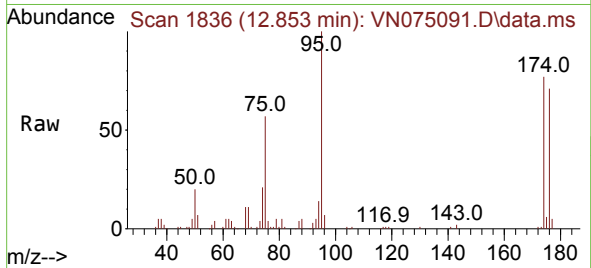




#76  
1,2,3-Trichloropropane  
Concen: 30.318 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-7-WC

Tgt Ion: 75 Resp: 44102  
Ion Ratio Lower Upper  
75 100  
77 0.5 75.6 226.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.826 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.112 min  
Lab File: VN075091.D  
Acq: 31 Oct 2022 16:59

Tgt Ion: 75 Resp: 44102  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.5 117.7#  
89 0.0 37.7 56.5#

