

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112322\  
 Data File : VN075407.D  
 Acq On : 23 Nov 2022 19:34  
 Operator : JC\MD  
 Sample : N5765-05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MH-14

Quant Time: Nov 24 06:53:53 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

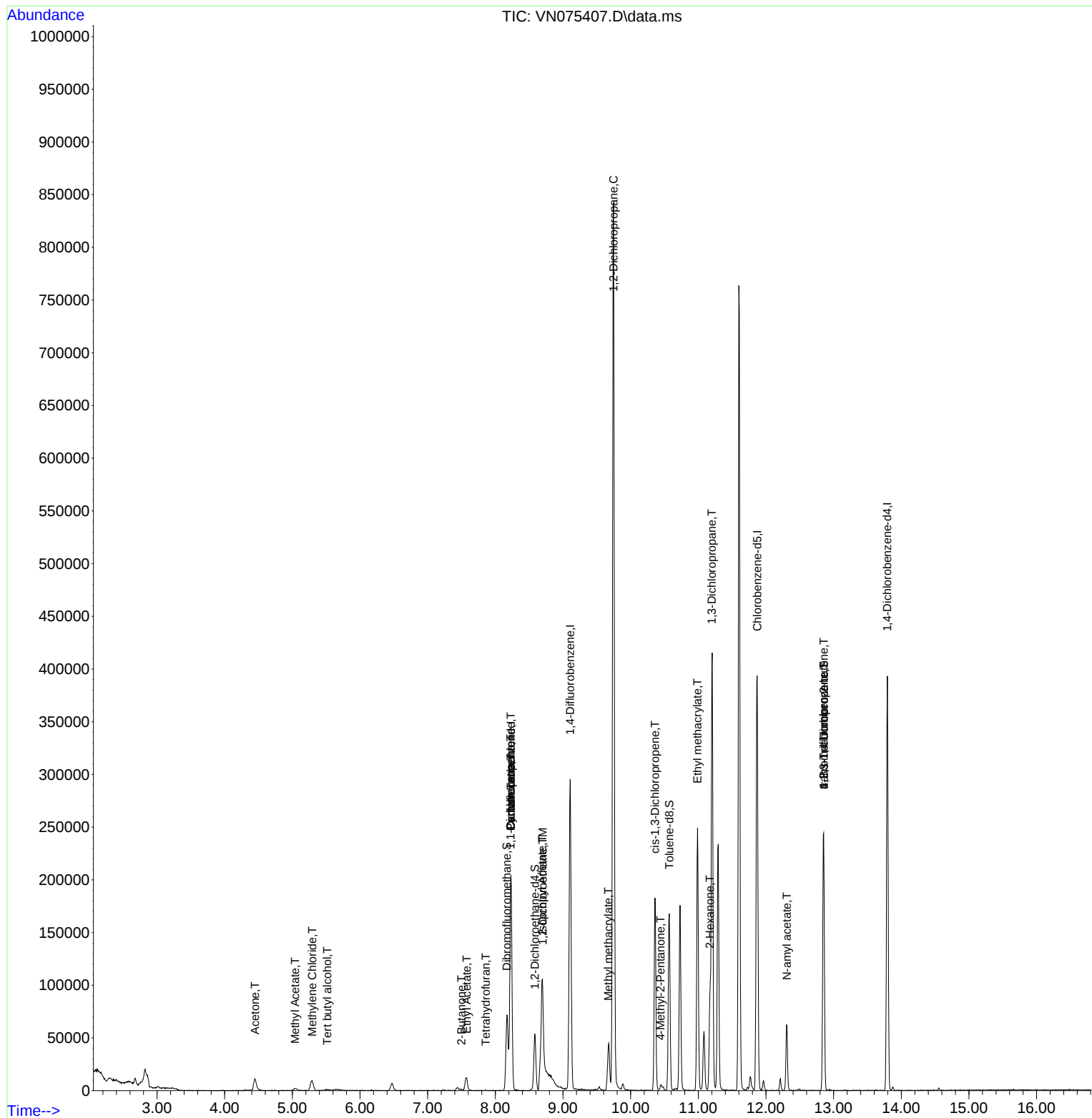
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 154680              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 274383              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 250346              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 111188              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 41667               | 50.183 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 100.360% |        |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 53129               | 49.291 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 98.580%  |        |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 120273              | 49.543 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 99.080%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 86877               | 48.484 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 96.960%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 11) Tert butyl alcohol        | 5.518          | 59   | 86                  | 0.247  | ug/l # | 72       |
| 16) Acetone                   | 4.447          | 43   | 20415               | 26.360 | ug/l   | 93       |
| 18) Methyl Acetate            | 5.042          | 43   | 4687                | 1.135  | ug/l # | 73       |
| 20) Methylene Chloride        | 5.294          | 84   | 8239                | 4.071  | ug/l # | 86       |
| 25) 2-Butanone                | 7.500          | 43   | 1939                | 1.793  | ug/l # | 83       |
| 29) Tetrahydrofuran           | 7.859          | 42   | 213                 | 0.324  | ug/l # | 54       |
| 31) Cyclohexane               | 8.230          | 56   | 2888                | 1.095  | ug/l # | 8        |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 11638               | 4.951  | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.577          | 43   | 18873               | 8.917  | ug/l   | 98       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 15605               | 6.043  | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 8.700          | 62   | 573                 | 0.238  | ug/l # | 75       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 136498              | 40.178 | ug/l # | 80       |
| 45) 1,2-Dichloropropane       | 9.747          | 63   | 1081                | 0.630  | ug/l # | 42       |
| 48) Methyl methacrylate       | 9.671          | 41   | 2490                | 1.585  | ug/l # | 31       |
| 51) 4-Methyl-2-Pentanone      | 10.441         | 43   | 3289                | 1.520  | ug/l   | 87       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 37389               | 13.650 | ug/l # | 59       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 876                 | 0.343  | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200         | 76   | 4900                | 1.591  | ug/l # | 42       |
| 59) 2-Hexanone                | 11.171         | 43   | 70651               | 43.483 | ug/l # | 21       |
| 74) N-amyl acetate            | 12.306         | 43   | 18206               | 7.290  | ug/l # | 48       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 43542               | 20.712 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 43542               | 61.282 | ug/l # | 10       |
| -----                         |                |      |                     |        |        |          |

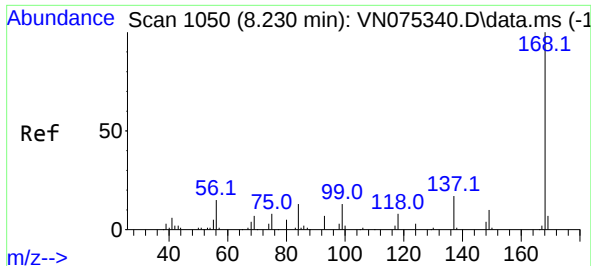
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Nov 23 00:18:03 2022  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN075407.D

Acq: 23 Nov 2022 19:34

Instrument :

MSVOA\_N

ClientSampleId :

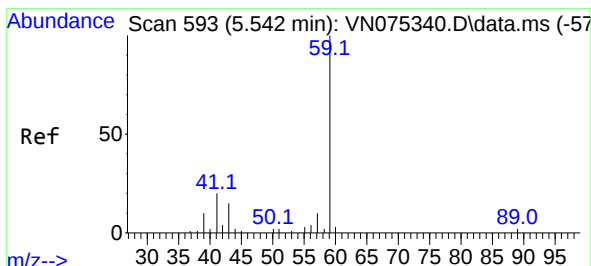
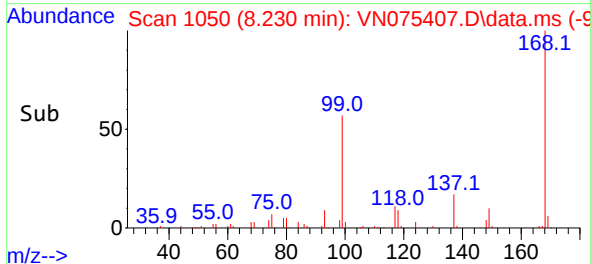
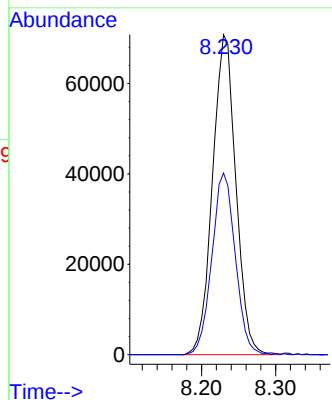
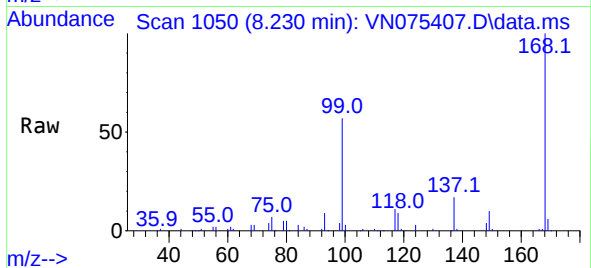
MH-14

Tgt Ion:168 Resp: 154680

Ion Ratio Lower Upper

168 100

99 56.7 51.6 77.4



#11

Tert butyl alcohol

Concen: 0.247 ug/l

RT: 5.518 min Scan# 589

Delta R.T. -0.024 min

Lab File: VN075407.D

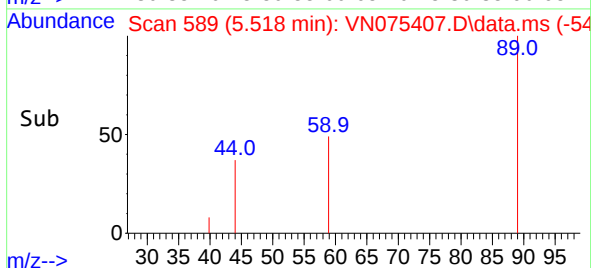
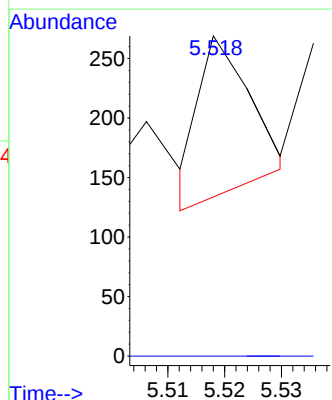
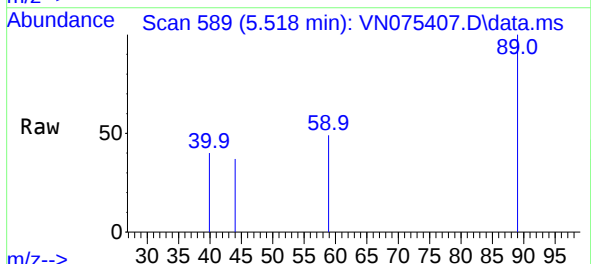
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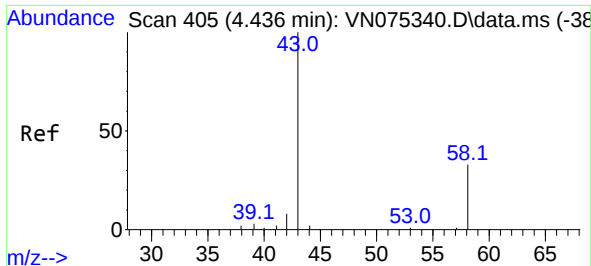
Tgt Ion: 59 Resp: 86

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

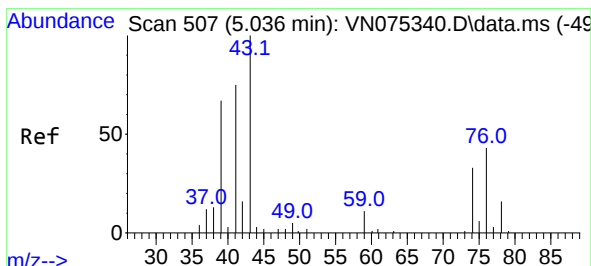
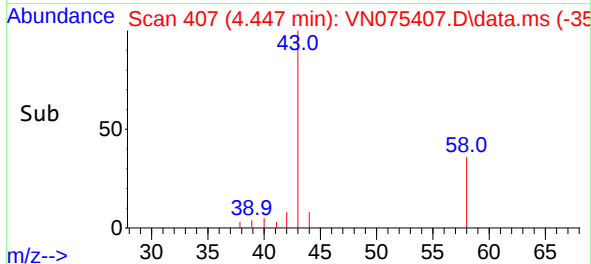
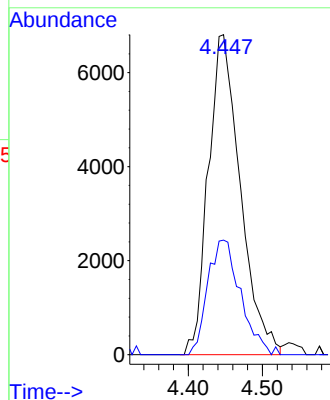
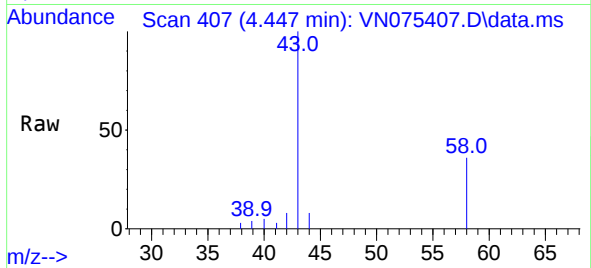




#16  
Acetone  
Concen: 26.360 ug/l  
RT: 4.447 min Scan# 405  
Delta R.T. 0.011 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

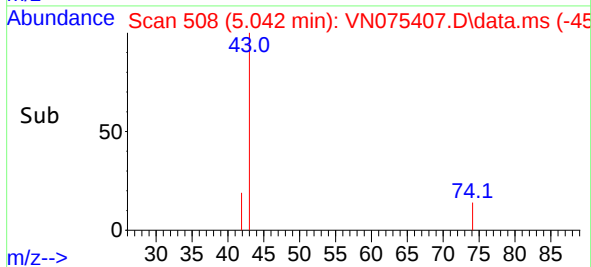
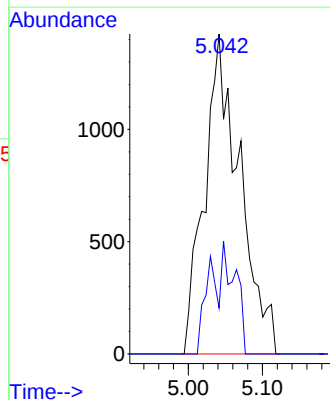
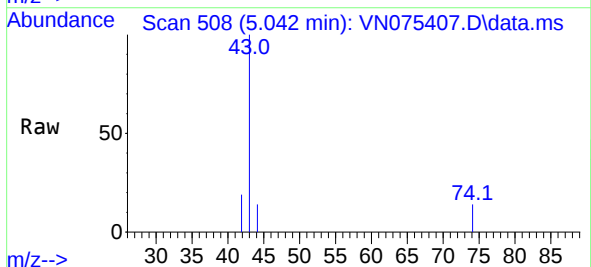
Instrument :  
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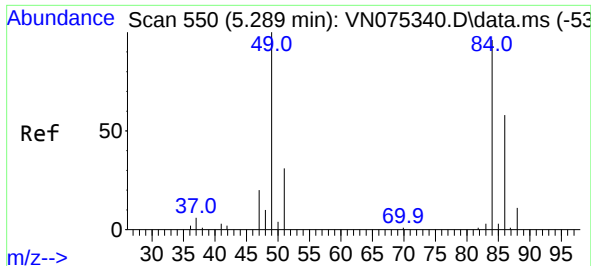
Tgt Ion: 43 Resp: 20415  
Ion Ratio Lower Upper  
43 100  
58 35.8 25.5 38.3



#18  
Methyl Acetate  
Concen: 1.135 ug/l  
RT: 5.042 min Scan# 508  
Delta R.T. 0.006 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 43 Resp: 4687  
Ion Ratio Lower Upper  
43 100  
74 13.7 22.0 33.0#



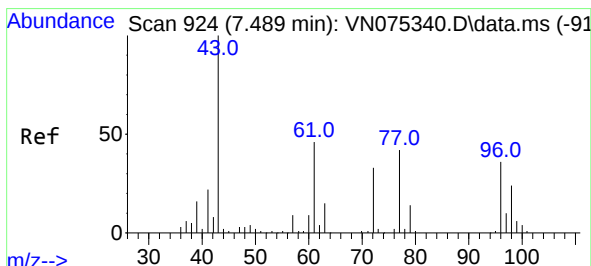
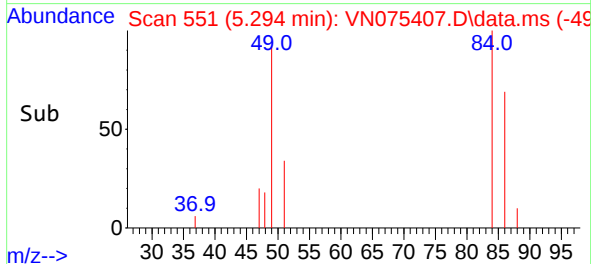
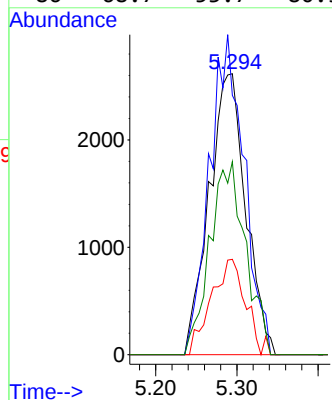
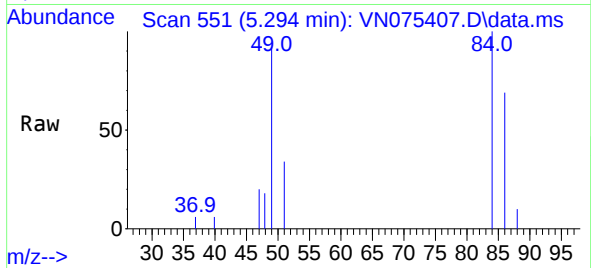


#20  
Methylene Chloride  
Concen: 4.071 ug/l  
RT: 5.294 min Scan# 51  
Delta R.T. 0.005 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Tgt Ion: 84 Resp: 8239

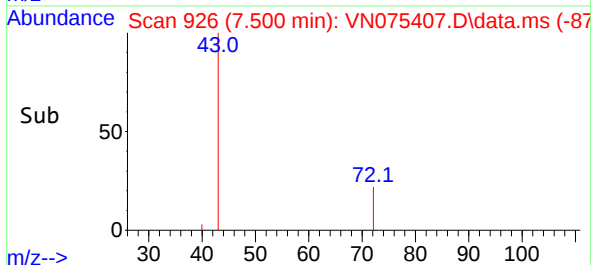
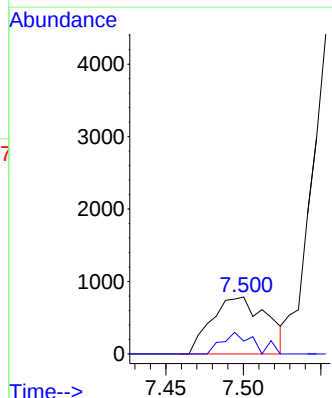
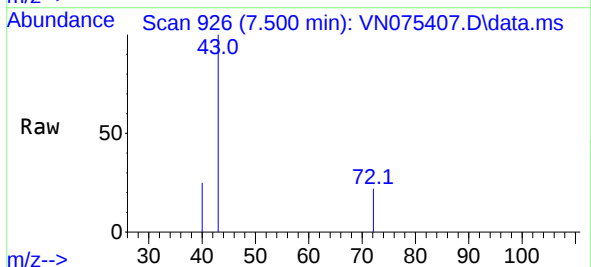
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 92.3  | 94.9  | 142.3# |
| 51  | 34.0  | 26.8  | 40.2   |
| 86  | 68.7  | 53.7  | 80.5   |

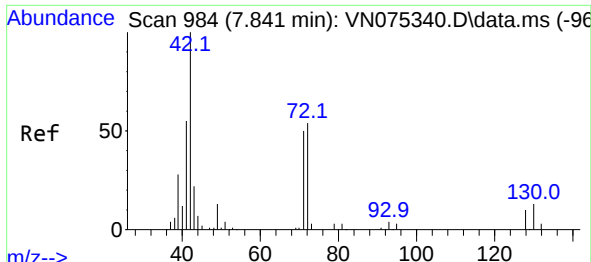


#25  
2-Butanone  
Concen: 1.793 ug/l  
RT: 7.500 min Scan# 926  
Delta R.T. 0.011 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 43 Resp: 1939

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 22.4  | 25.5  | 38.3# |

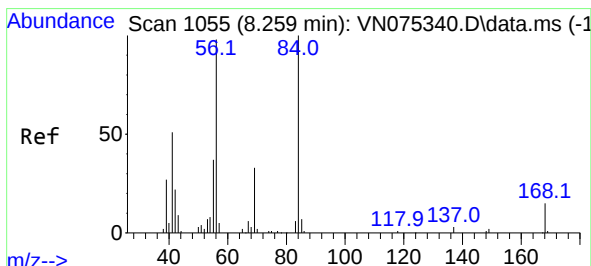
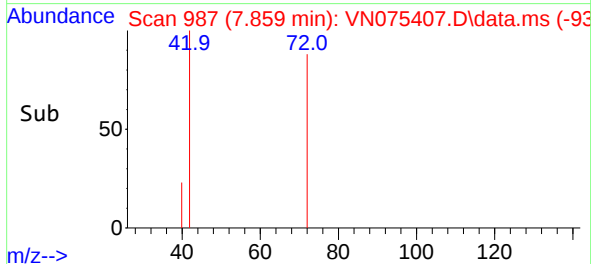
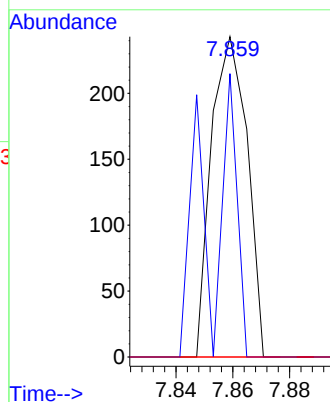
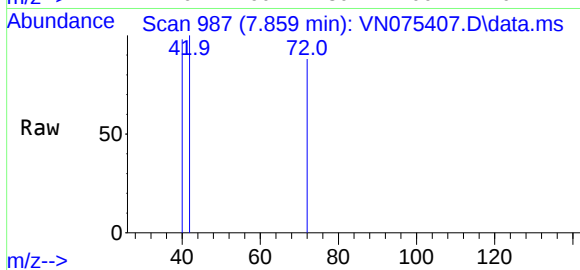




#29  
Tetrahydrofuran  
Concen: 0.324 ug/l  
RT: 7.859 min Scan# 91  
Delta R.T. 0.018 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

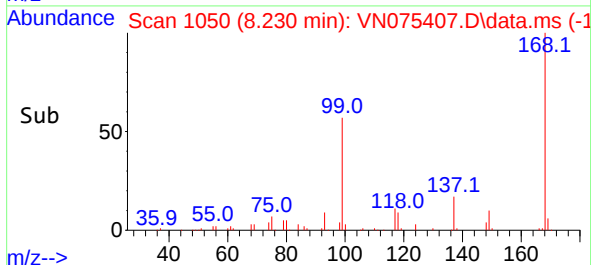
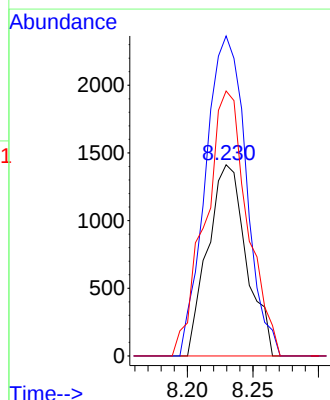
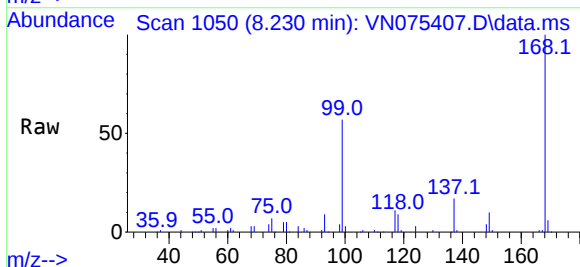
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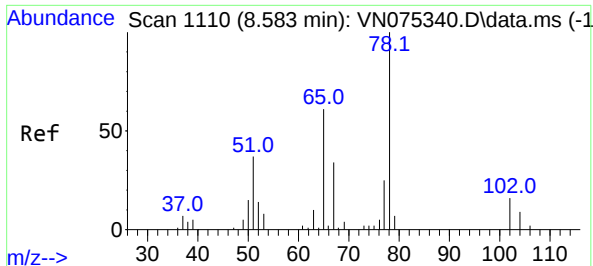
Tgt Ion: 42 Resp: 213  
Ion Ratio Lower Upper  
42 100  
72 68.5 43.0 64.6#  
71 0.0 39.9 59.9#



#31  
Cyclohexane  
Concen: 1.095 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.029 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 56 Resp: 2888  
Ion Ratio Lower Upper  
56 100  
69 167.4 25.2 37.8#  
84 138.6 77.8 116.8#

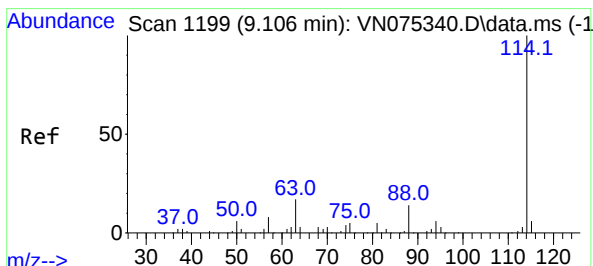
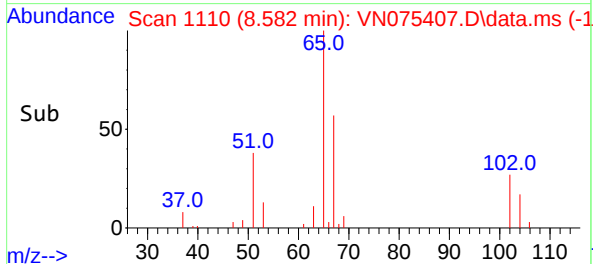
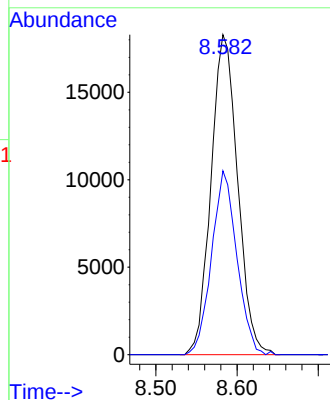
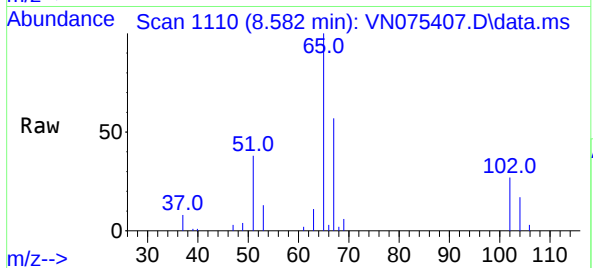




#33  
1,2-Dichloroethane-d4  
Concen: 50.183 ug/l  
RT: 8.582 min Scan# 1110  
Delta R.T. -0.001 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

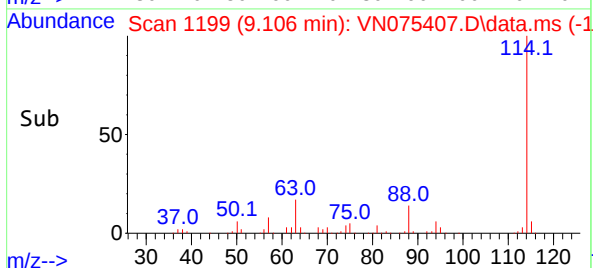
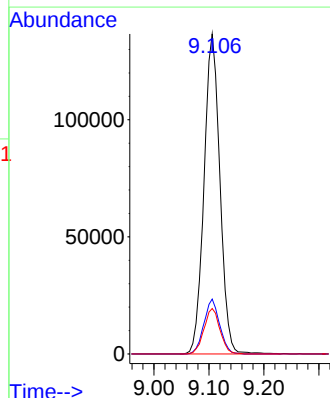
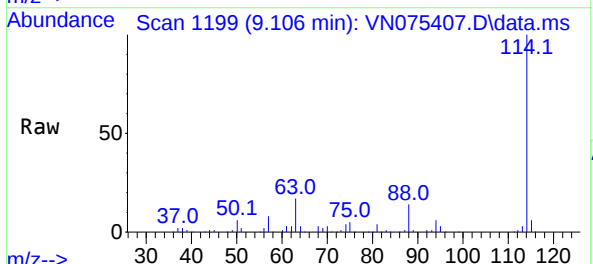
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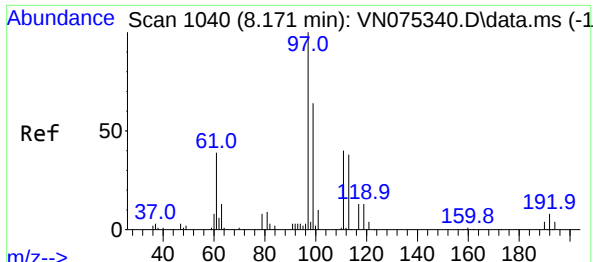
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Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 102.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. -0.000 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

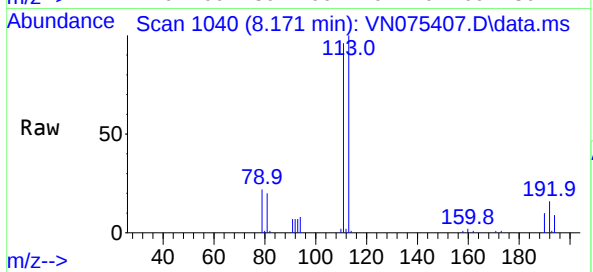
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Ion Ratio Lower Upper  
114 100  
63 17.2 0.0 39.6  
88 14.2 0.0 29.0



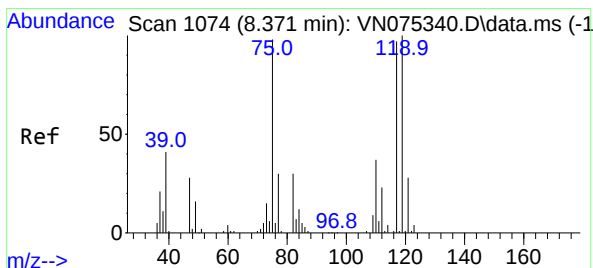
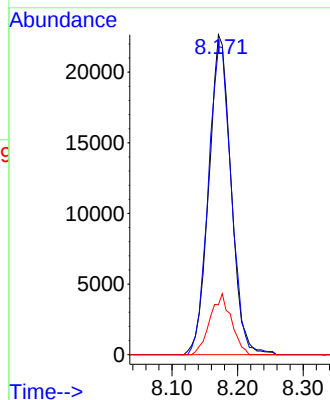
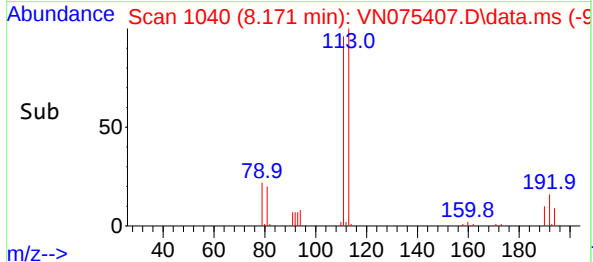


#35  
Dibromofluoromethane  
Concen: 49.291 ug/l  
RT: 8.171 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

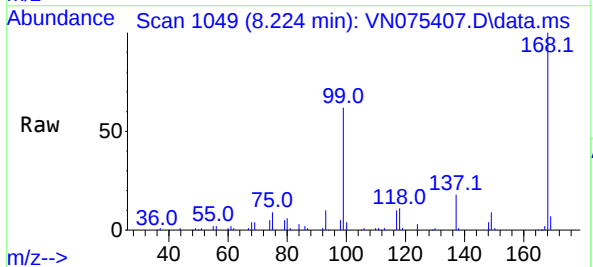
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-14



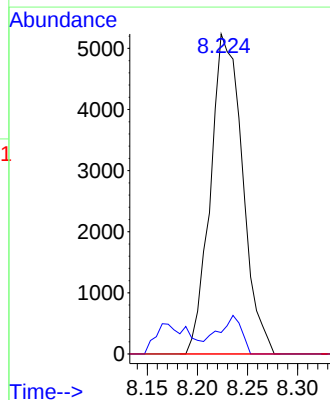
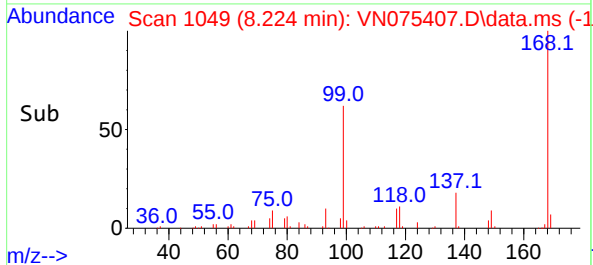
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Ion Ratio Lower Upper  
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192 18.3 13.2 19.8

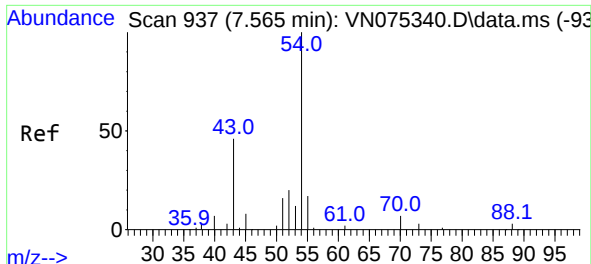


#36  
1,1-Dichloropropene  
Concen: 4.951 ug/l  
RT: 8.224 min Scan# 1049  
Delta R.T. -0.147 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34



Tgt Ion: 75 Resp: 11638  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.8 53.3#  
77 0.0 24.6 37.0#

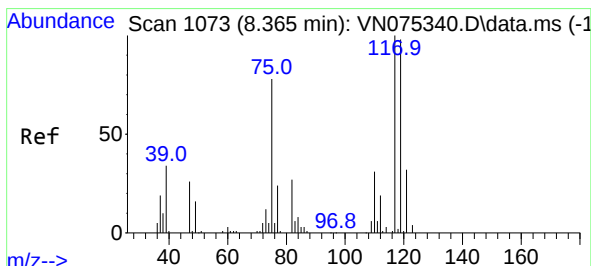
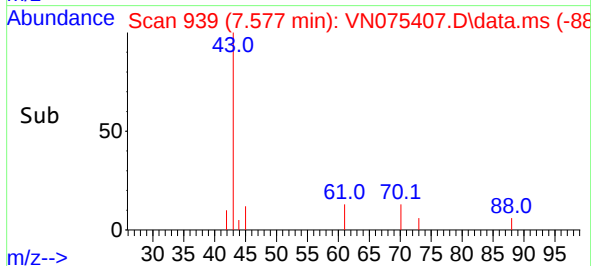
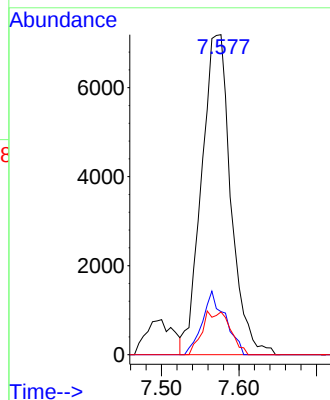
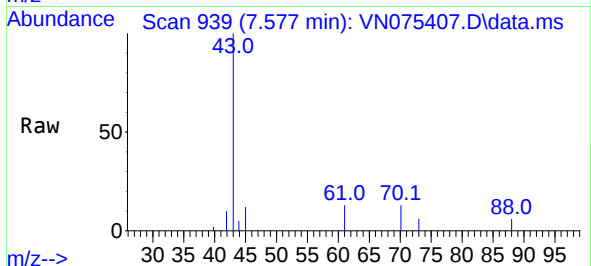




#37  
Ethyl Acetate  
Concen: 8.917 ug/l  
RT: 7.577 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

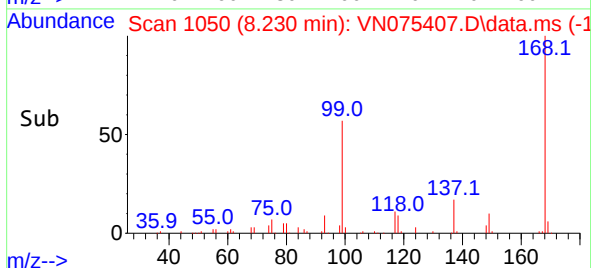
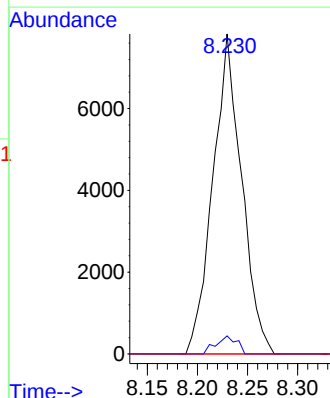
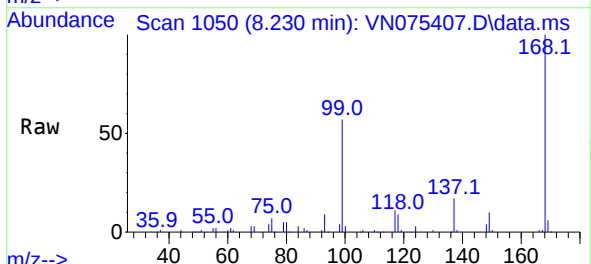
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-14

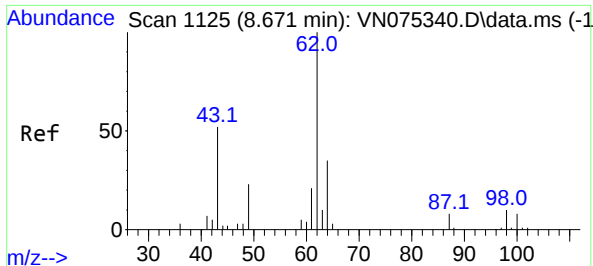
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 18873 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 15.6     | 12.2 18.4   |
| 70 12.9     | 9.4 14.2    |



#38  
Carbon Tetrachloride  
Concen: 6.043 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.135 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion:117 | Resp: | 15605 |        |
| Ion         | Ratio | Lower | Upper  |
| 117         | 100   |       |        |
| 119         | 5.6   | 76.7  | 115.1# |
| 121         | 0.0   | 23.9  | 35.9#  |





#42

1,2-Dichloroethane

Concen: 0.238 ug/l

RT: 8.700 min Scan# 1125

Delta R.T. 0.029 min

Lab File: VN075407.D

Acq: 23 Nov 2022 19:34

Instrument :

MSVOA\_N

ClientSampleId :

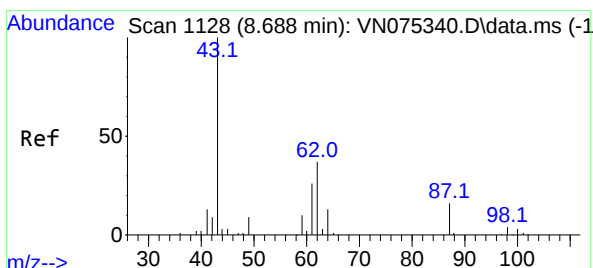
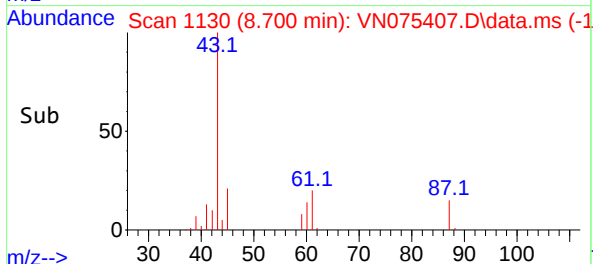
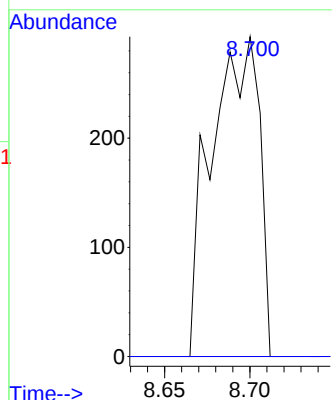
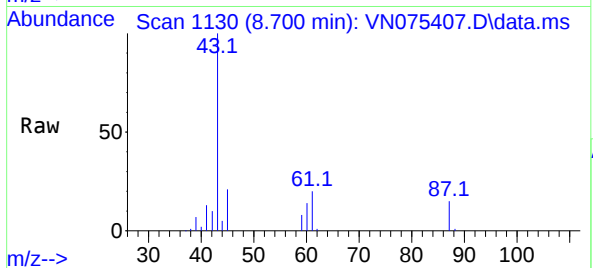
MH-14

Tgt Ion: 62 Resp: 573

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 40.178 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VN075407.D

Acq: 23 Nov 2022 19:34

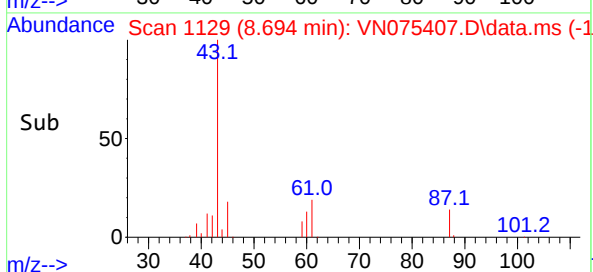
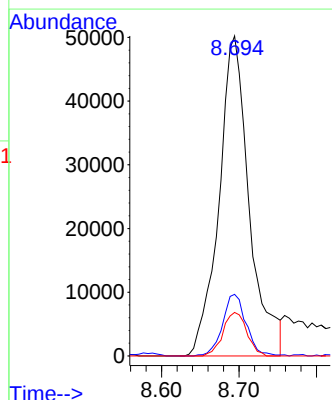
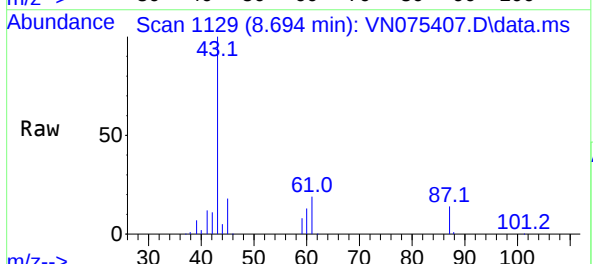
Tgt Ion: 43 Resp: 136498

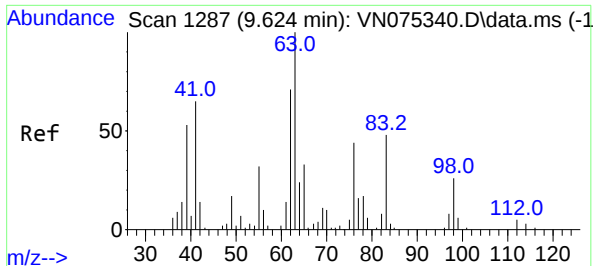
Ion Ratio Lower Upper

43 100

61 15.1 22.4 33.6#

87 10.7 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.630 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN075407.D

Acq: 23 Nov 2022 19:34

Instrument :

MSVOA\_N

ClientSampleId :

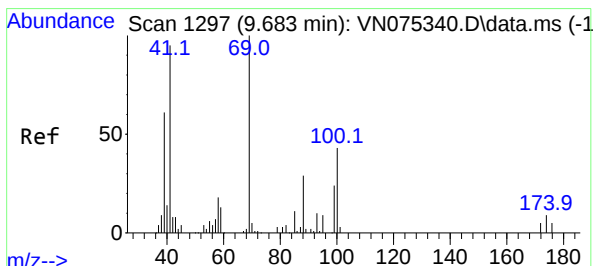
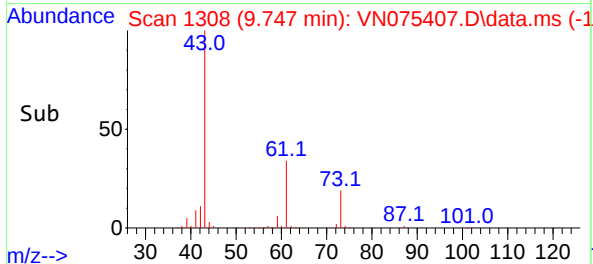
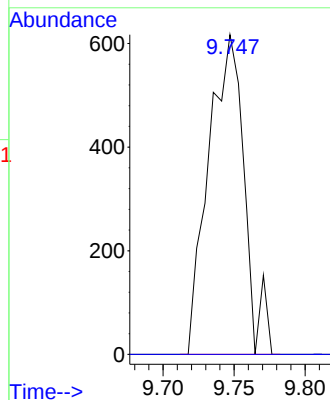
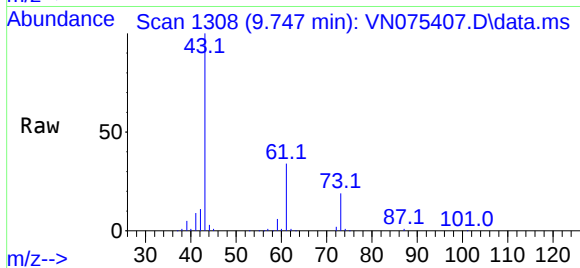
MH-14

Tgt Ion: 63 Resp: 1081

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.585 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.012 min

Lab File: VN075407.D

Acq: 23 Nov 2022 19:34

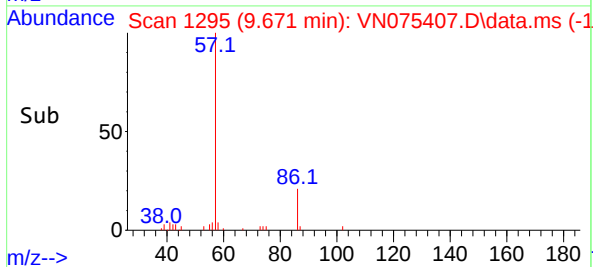
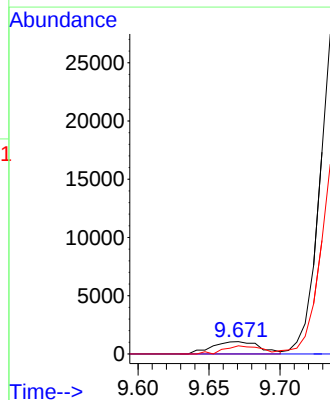
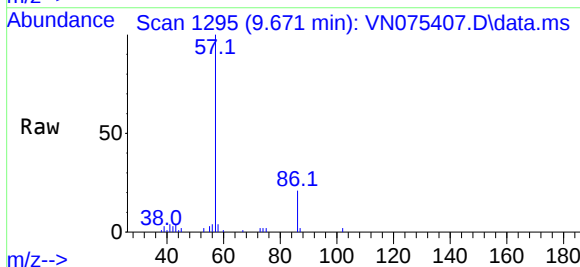
Tgt Ion: 41 Resp: 2490

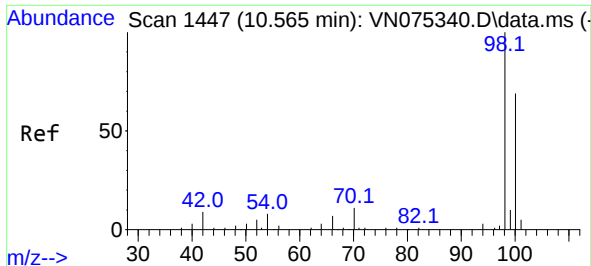
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 50.5 56.2 84.2#

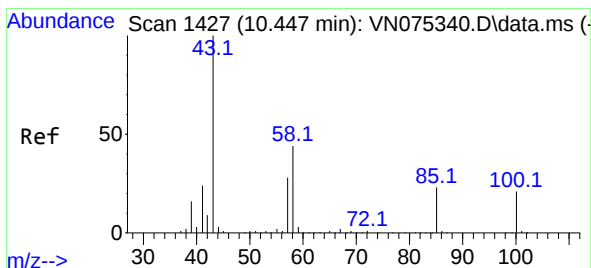
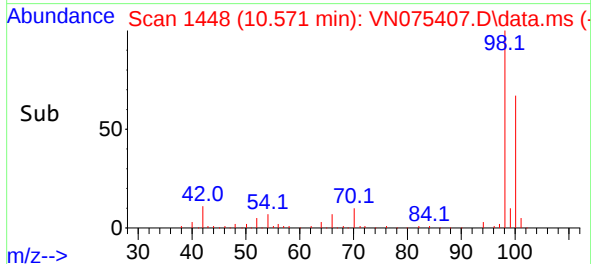
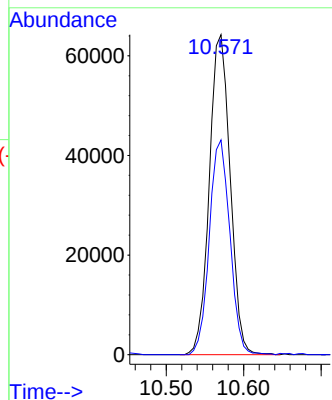
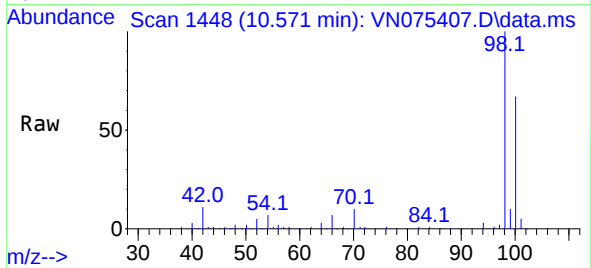




#50  
Toluene-d8  
Concen: 49.543 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. 0.006 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

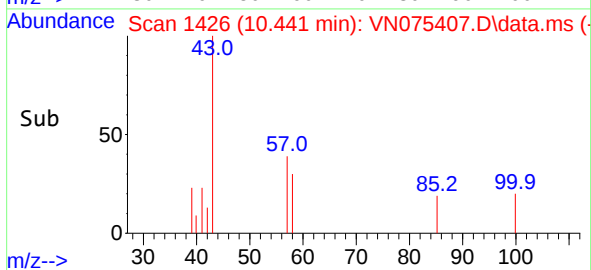
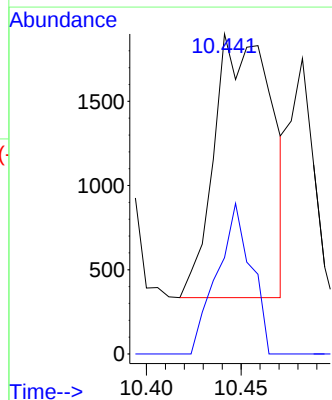
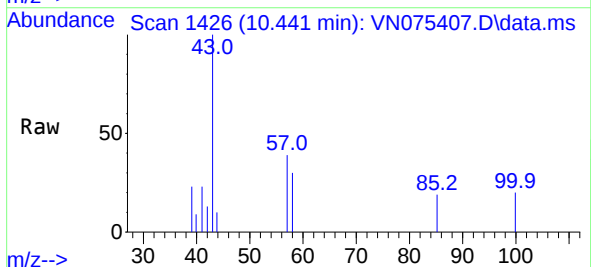
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-14

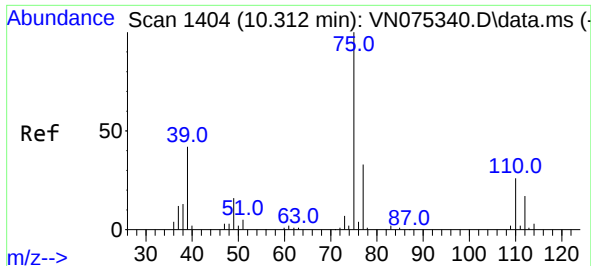
Tgt Ion: 98 Resp: 120273  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.0 79.6



#51  
4-Methyl-2-Pentanone  
Concen: 1.520 ug/l  
RT: 10.441 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 43 Resp: 3289  
Ion Ratio Lower Upper  
43 100  
58 34.0 33.6 50.4

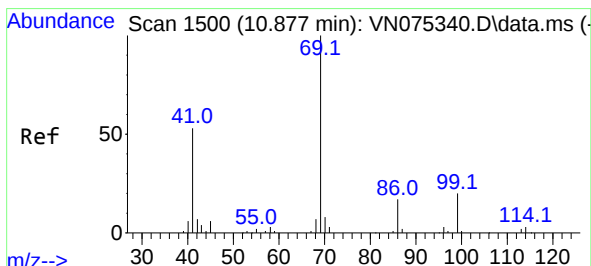
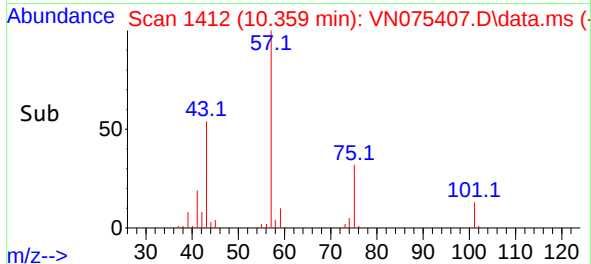
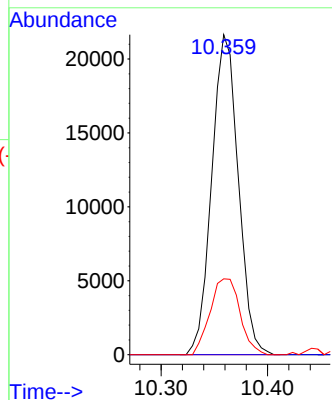
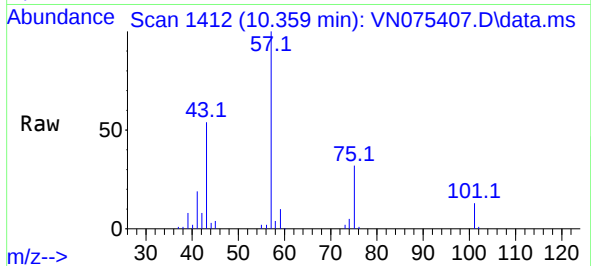




#54  
cis-1,3-Dichloropropene  
Concen: 13.650 ug/l  
RT: 10.359 min Scan# 14  
Delta R.T. 0.047 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

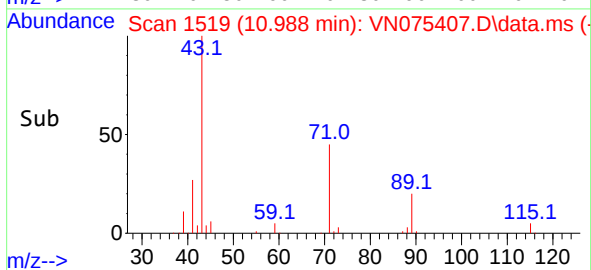
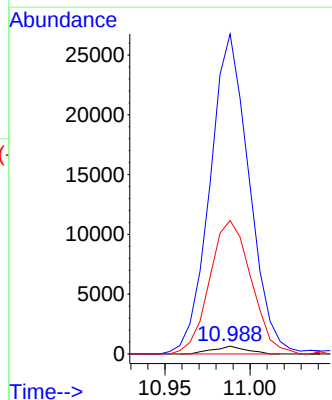
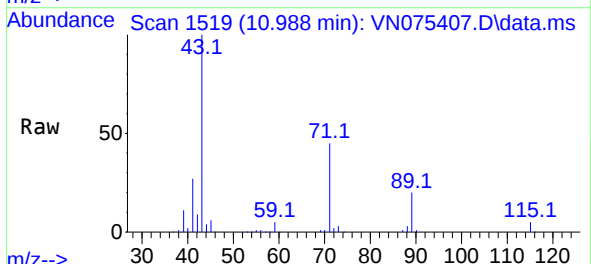
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-14

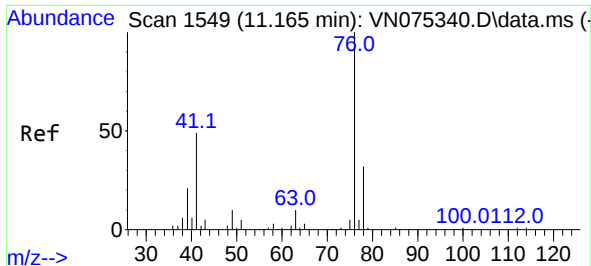
Tgt Ion: 75 Resp: 37389  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.7 35.5#  
39 23.7 35.8 53.6#



#56  
Ethyl methacrylate  
Concen: 0.343 ug/l  
RT: 10.988 min Scan# 1519  
Delta R.T. 0.111 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 69 Resp: 876  
Ion Ratio Lower Upper  
69 100  
41 4914.3 45.6 68.4#  
39 2162.1 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.591 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. 0.035 min

Lab File: VN075407.D

Acq: 23 Nov 2022 19:34

Instrument :

MSVOA\_N

ClientSampleId :

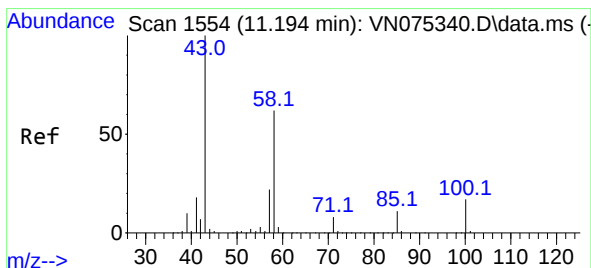
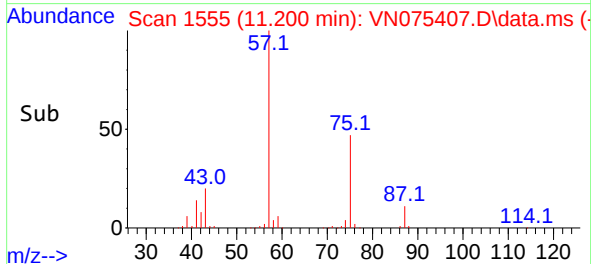
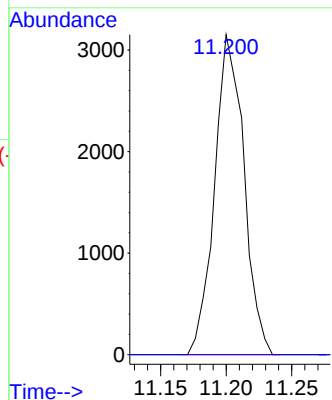
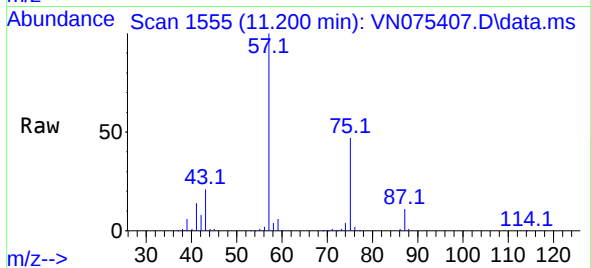
MH-14

Tgt Ion: 76 Resp: 4900

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 43.483 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.023 min

Lab File: VN075407.D

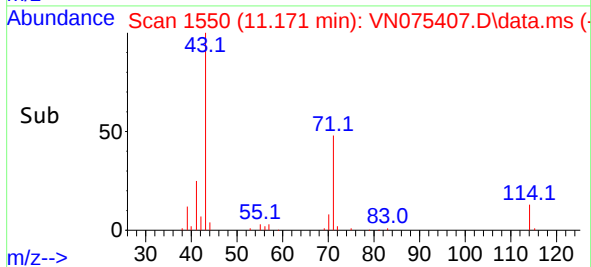
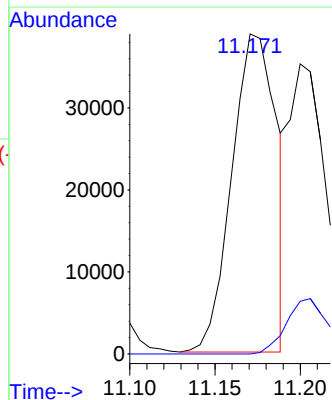
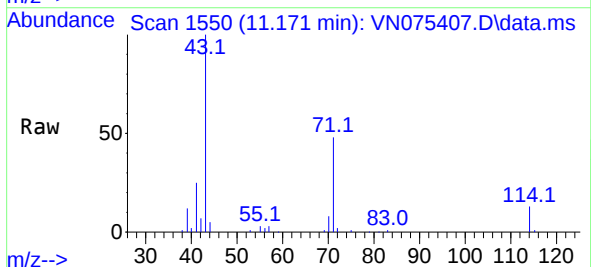
Acq: 23 Nov 2022 19:34

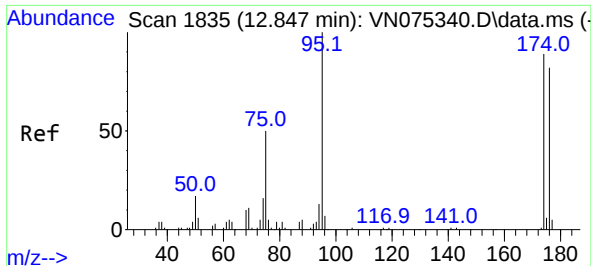
Tgt Ion: 43 Resp: 70651

Ion Ratio Lower Upper

43 100

58 0.0 29.6 88.8#

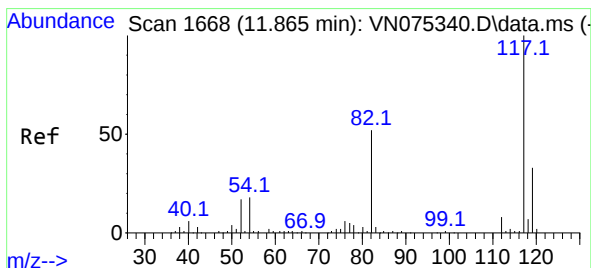
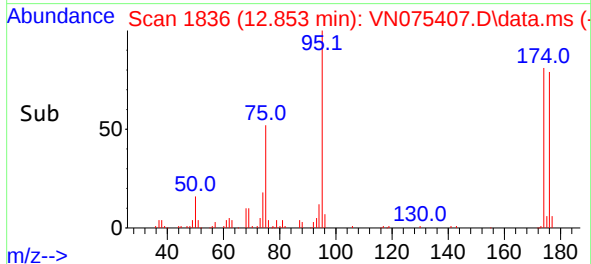
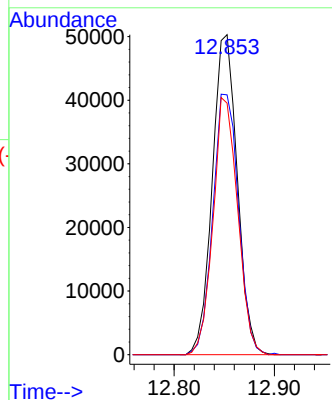
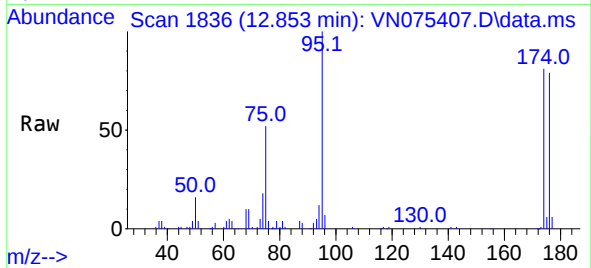




#62  
4-Bromofluorobenzene  
Concen: 48.484 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.006 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

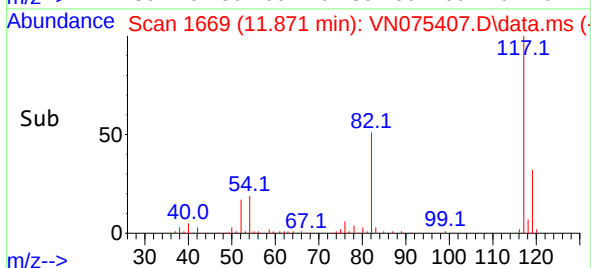
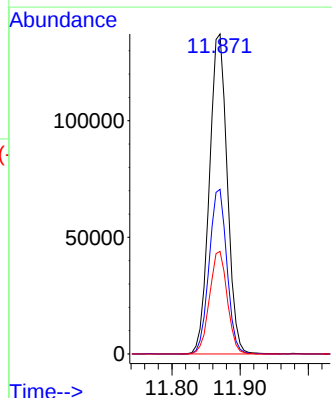
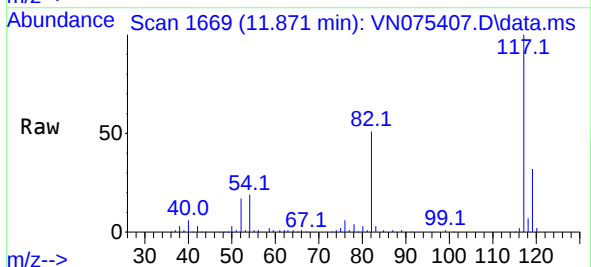
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-14

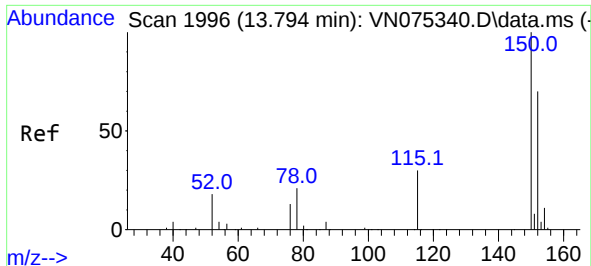
Tgt Ion: 95 Resp: 86877  
Ion Ratio Lower Upper  
95 100  
174 83.8 0.0 147.4  
176 79.1 0.0 142.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1669  
Delta R.T. 0.006 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 117 Resp: 250346  
Ion Ratio Lower Upper  
117 100  
82 51.5 43.1 64.7  
119 32.0 25.5 38.3

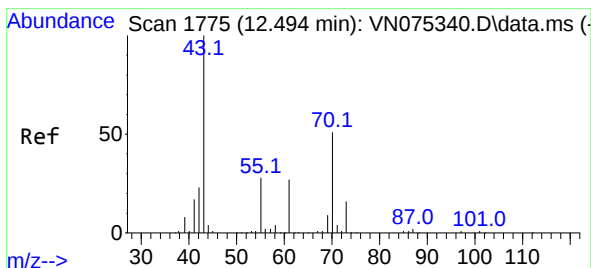
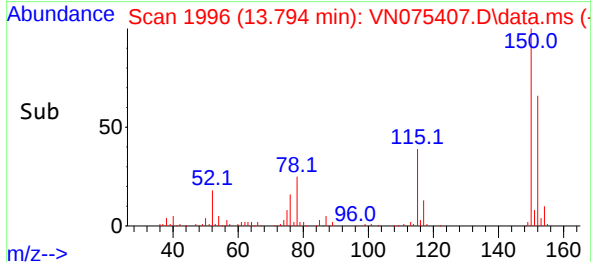
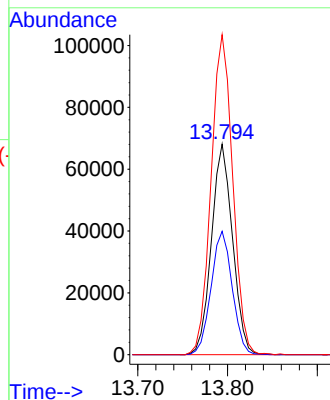
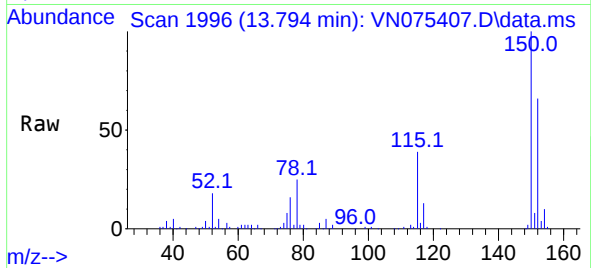




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

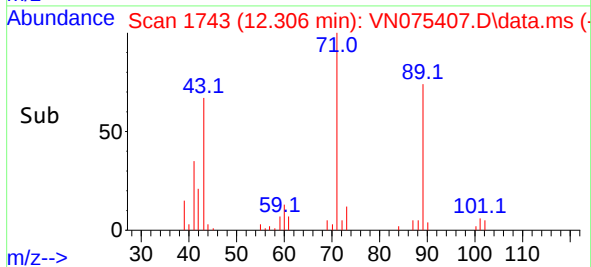
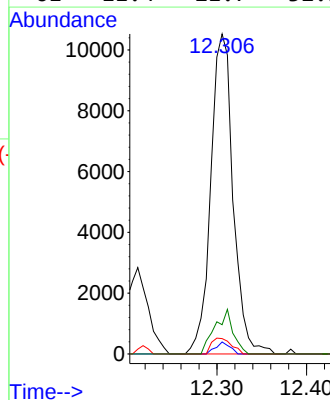
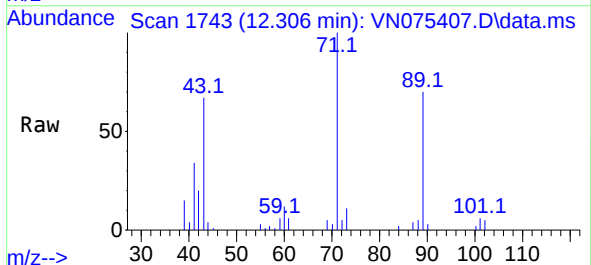
Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-14

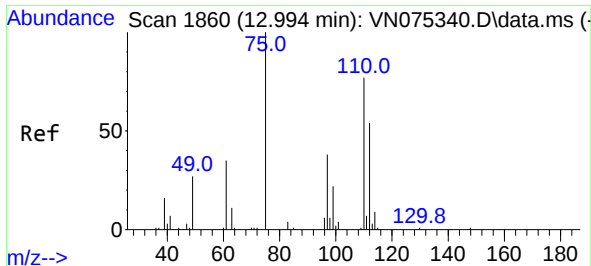
Tgt Ion:152 Resp: 111188  
Ion Ratio Lower Upper  
152 100  
115 58.7 30.2 90.6  
150 155.6 0.0 348.4



#74  
N-ethyl acetate  
Concen: 7.290 ug/l  
RT: 12.306 min Scan# 1743  
Delta R.T. -0.188 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 43 Resp: 18206  
Ion Ratio Lower Upper  
43 100  
70 2.4 39.8 59.8#  
55 4.4 19.9 29.9#  
61 11.4 21.7 32.5#

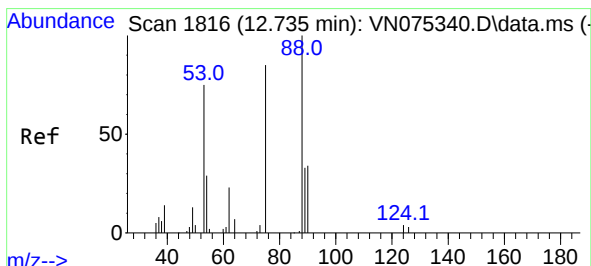
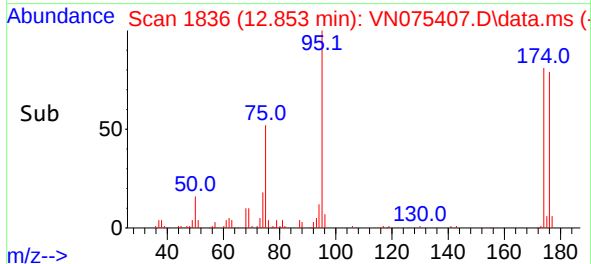
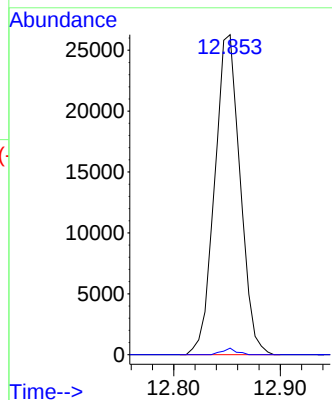
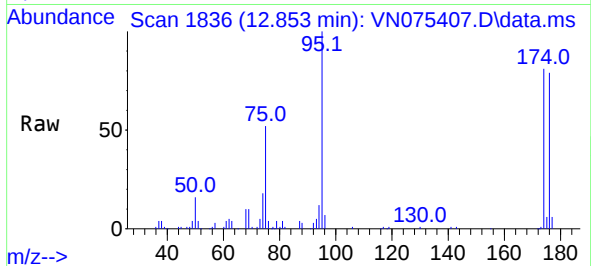




#76  
1,2,3-Trichloropropane  
Concen: 20.712 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-14

Tgt Ion: 75 Resp: 43542  
Ion Ratio Lower Upper  
75 100  
77 1.1 75.6 226.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.282 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.118 min  
Lab File: VN075407.D  
Acq: 23 Nov 2022 19:34

Tgt Ion: 75 Resp: 43542  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.5 117.7#  
89 0.0 37.7 56.5#

