

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN103122\  
 Data File : VN075093.D  
 Acq On : 31 Oct 2022 17:47  
 Operator : JC\MD  
 Sample : N5377-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SOIL-WC-20221028

Quant Time: Nov 01 06:21:52 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

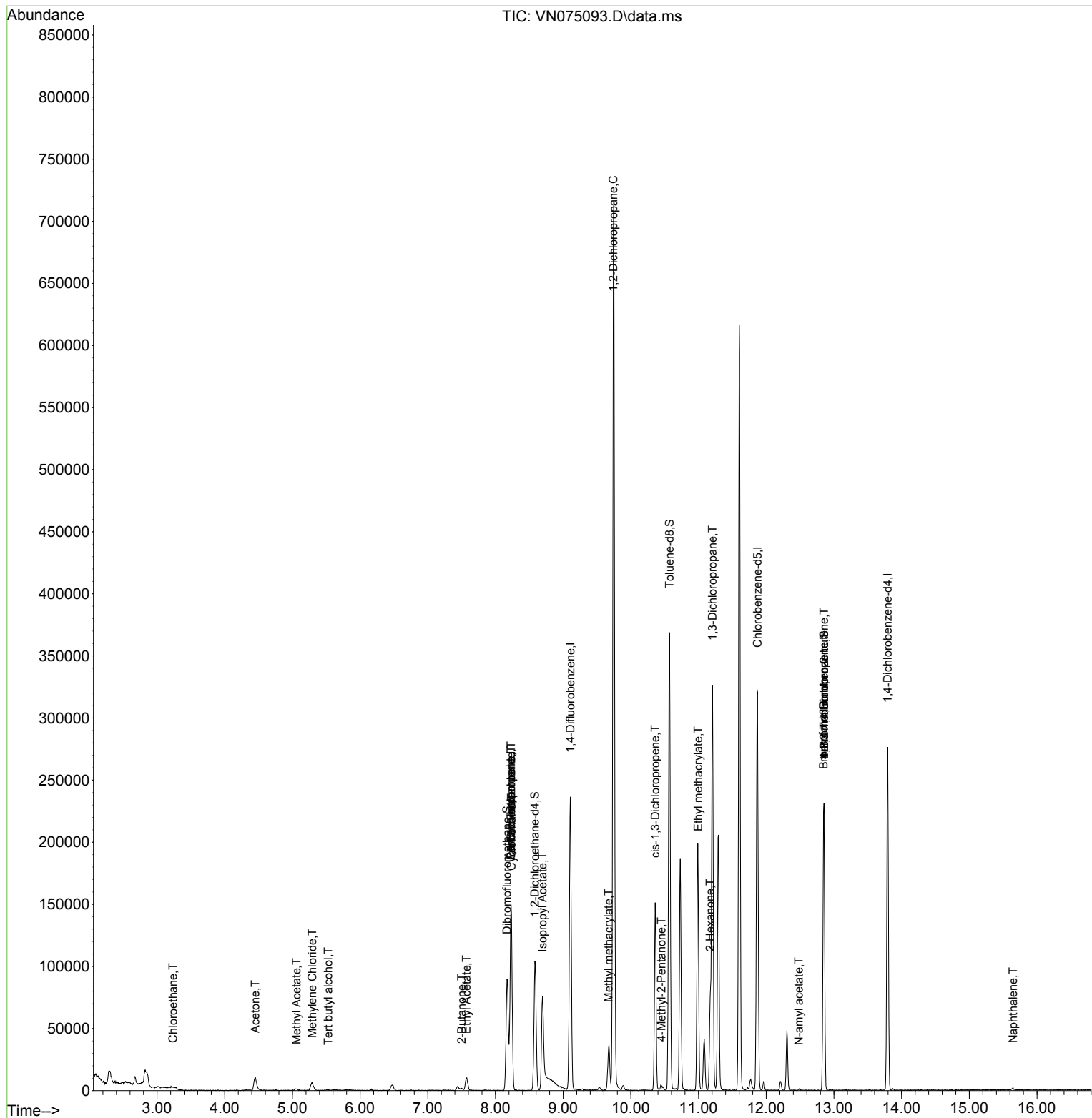
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 102668              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 199824              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 188717              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 70510               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 84223               | 60.884 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 121.760% |        |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 63788               | 54.377 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 108.760% |        |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 255726              | 56.189 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 112.380% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 79502               | 49.728 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 99.460%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 6) Chloroethane               | 3.236          | 64   | 1304                | 0.899  | ug/l # | 45       |
| 11) Tert butyl alcohol        | 5.530          | 59   | 109                 | 0.338  | ug/l # | 72       |
| 16) Acetone                   | 4.453          | 43   | 20770               | 35.460 | ug/l   | 96       |
| 18) Methyl Acetate            | 5.059          | 43   | 2798                | 1.462  | ug/l # | 86       |
| 20) Methylene Chloride        | 5.295          | 84   | 5240                | 4.012  | ug/l   | 91       |
| 25) 2-Butanone                | 7.500          | 43   | 3006                | 3.263  | ug/l   | 92       |
| 31) Cyclohexane               | 8.236          | 56   | 2755                | 1.339  | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 9492                | 5.227  | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.571          | 43   | 15556               | 7.810  | ug/l   | 97       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 11654               | 5.834  | ug/l # | 14       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 90169               | 29.187 | ug/l # | 82       |
| 45) 1,2-Dichloropropane       | 9.741          | 63   | 843                 | 0.637  | ug/l # | 42       |
| 48) Methyl methacrylate       | 9.671          | 41   | 2209                | 1.559  | ug/l # | 32       |
| 51) 4-Methyl-2-Pentanone      | 10.453         | 43   | 2591                | 1.300  | ug/l   | 90       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 27798               | 12.437 | ug/l # | 68       |
| 56) Ethyl methacrylate        | 10.994         | 69   | 531                 | 0.236  | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206         | 76   | 3219                | 1.311  | ug/l # | 42       |
| 59) 2-Hexanone                | 11.171         | 43   | 56567               | 37.386 | ug/l # | 21       |
| 71) Bromoform                 | 12.847         | 173  | 529                 | 0.473  | ug/l # | 1        |
| 74) N-amyl acetate            | 12.482         | 43   | 570                 | 0.272  | ug/l # | 38       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 45244               | 30.221 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 45244               | 77.576 | ug/l # | 10       |
| 95) Naphthalene               | 15.647         | 128  | 1936                | 0.482  | ug/l # | 78       |
| -----                         |                |      |                     |        |        |          |

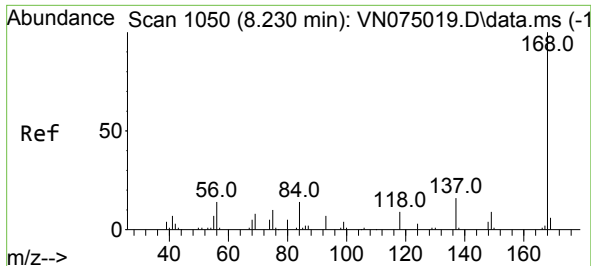
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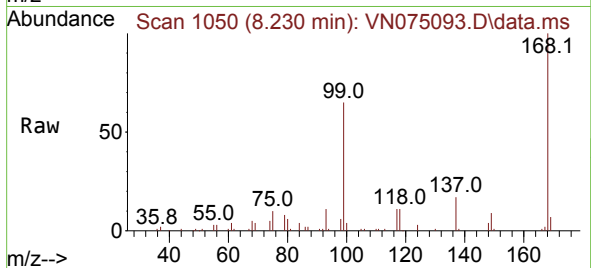
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
Quant Title : SW846 8260  
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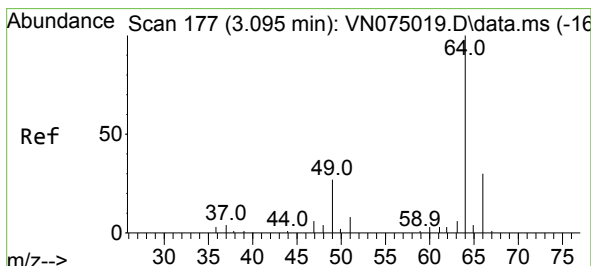
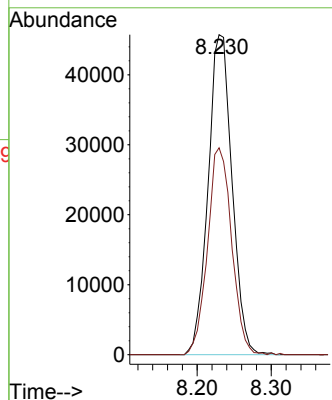
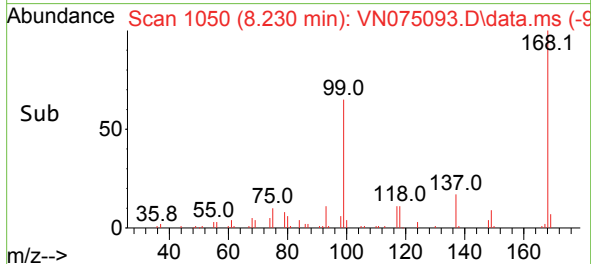


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028

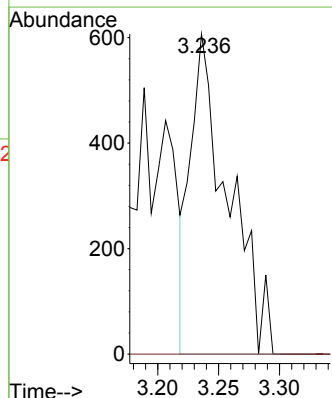
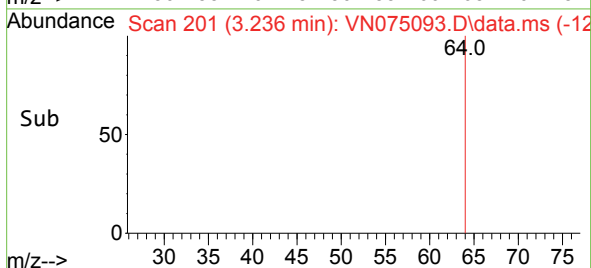
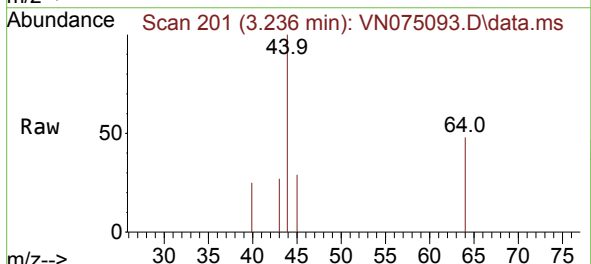


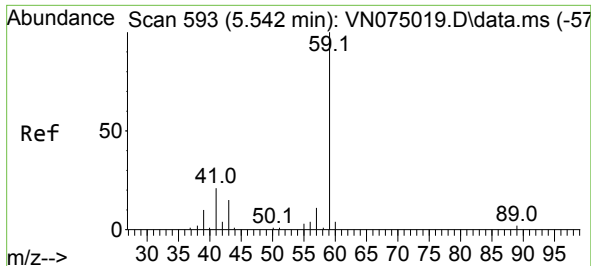
Tgt Ion:168 Resp: 102668  
Ion Ratio Lower Upper  
168 100  
99 64.6 51.6 77.4



#6  
Chloroethane  
Concen: 0.899 ug/l  
RT: 3.236 min Scan# 201  
Delta R.T. 0.141 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 64 Resp: 1304  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.8 35.8#





#11

Tert butyl alcohol

Concen: 0.338 ug/l

RT: 5.530 min Scan# 59

Delta R.T. -0.012 min

Lab File: VN075093.D

Acq: 31 Oct 2022 17:47

Instrument :

MSVOA\_N

ClientSampleId :

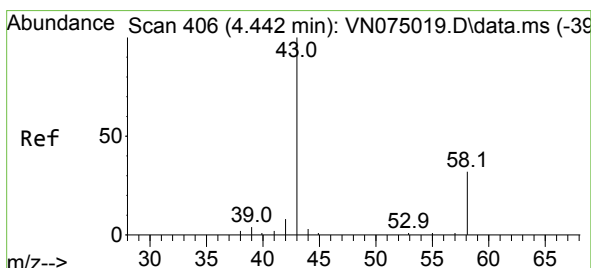
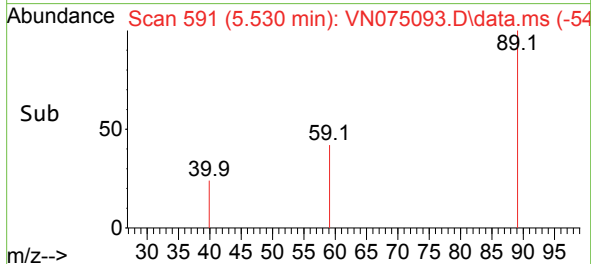
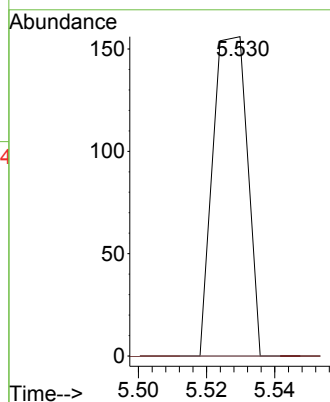
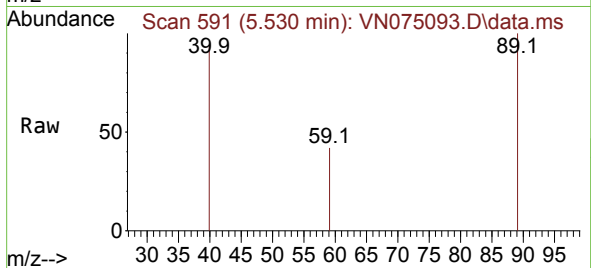
SOIL-WC-20221028

Tgt Ion: 59 Resp: 109

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#16

Acetone

Concen: 35.460 ug/l

RT: 4.453 min Scan# 408

Delta R.T. 0.011 min

Lab File: VN075093.D

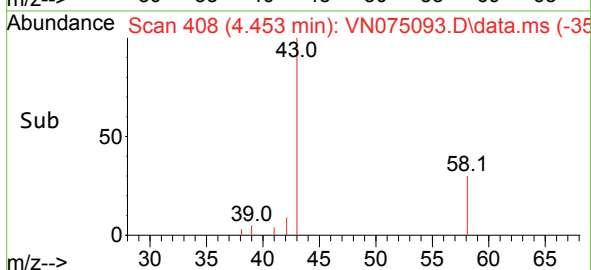
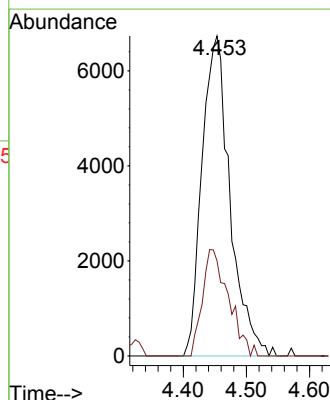
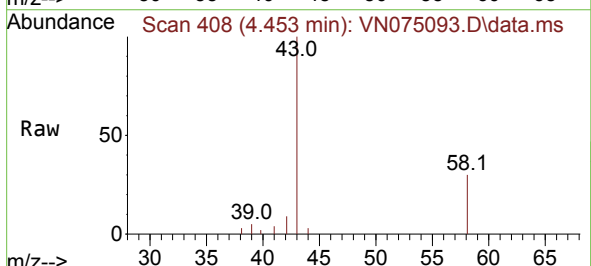
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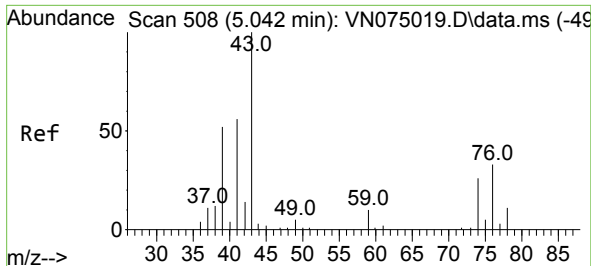
Tgt Ion: 43 Resp: 20770

Ion Ratio Lower Upper

43 100

58 29.8 25.5 38.3

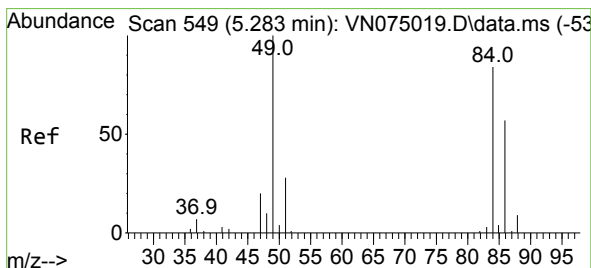
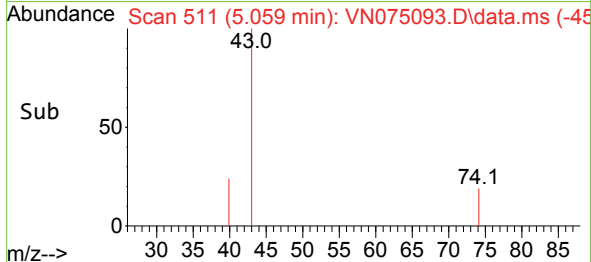
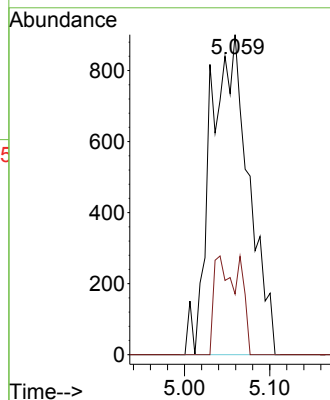
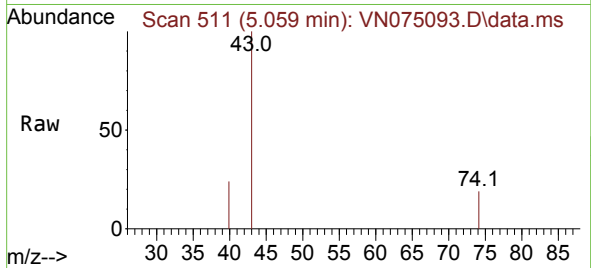




#18  
Methyl Acetate  
Concen: 1.462 ug/l  
RT: 5.059 min Scan# 511  
Delta R.T. 0.017 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

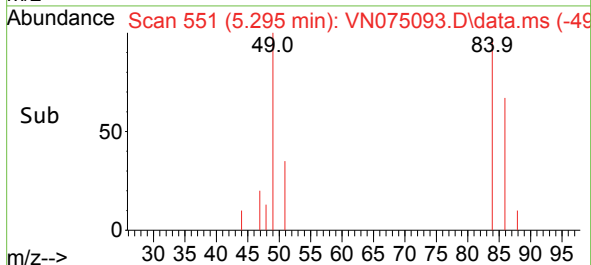
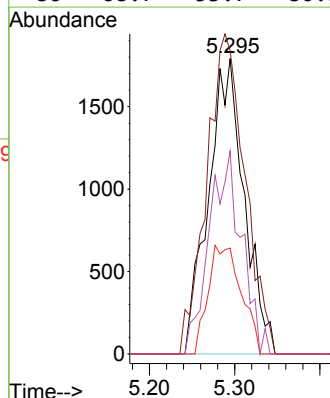
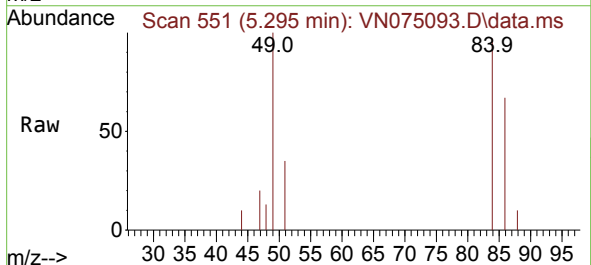
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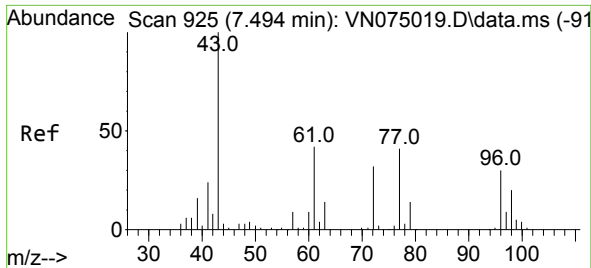
Tgt Ion: 43 Resp: 2798  
Ion Ratio Lower Upper  
43 100  
74 20.0 22.0 33.0#



#20  
Methylene Chloride  
Concen: 4.012 ug/l  
RT: 5.295 min Scan# 551  
Delta R.T. 0.012 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 84 Resp: 5240  
Ion Ratio Lower Upper  
84 100  
49 102.7 94.9 142.3  
51 35.9 26.8 40.2  
86 68.7 53.7 80.5

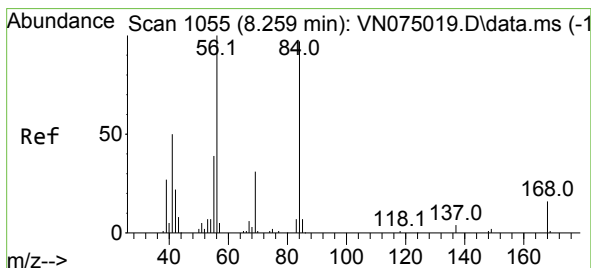
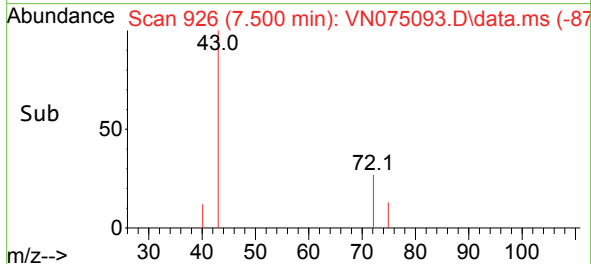
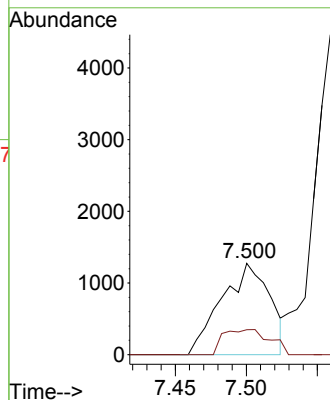
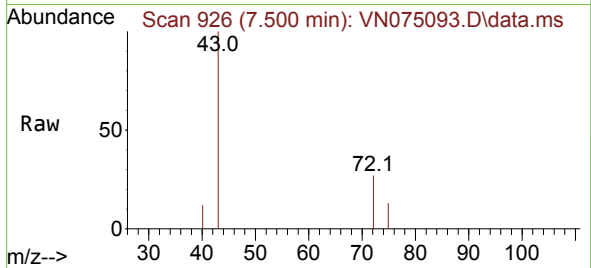




#25  
2-Butanone  
Concen: 3.263 ug/l  
RT: 7.500 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

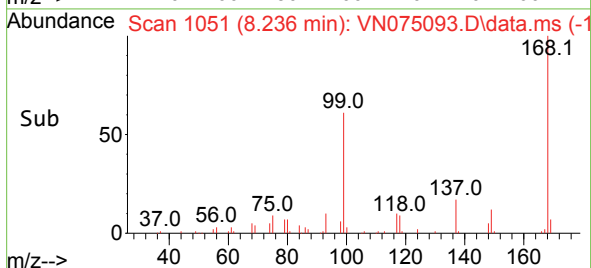
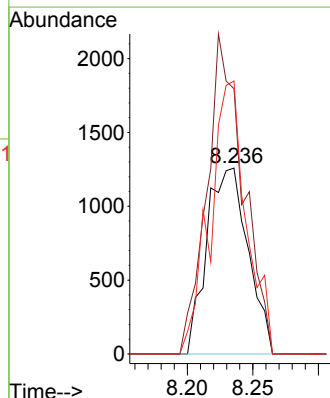
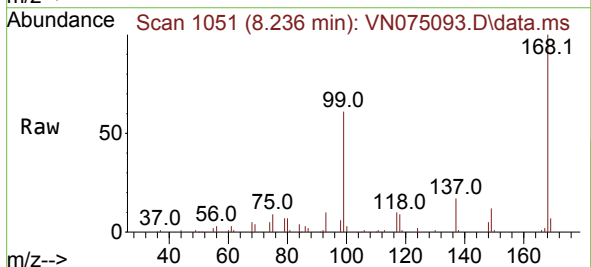
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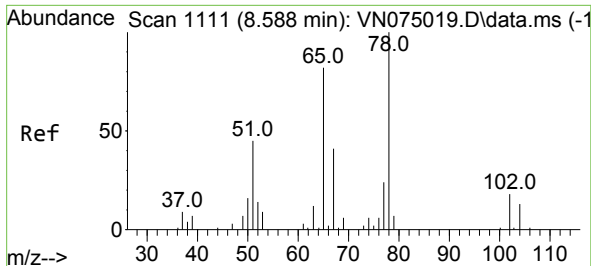
Tgt Ion: 43 Resp: 3006  
Ion Ratio Lower Upper  
43 100  
72 27.3 25.5 38.3



#31  
Cyclohexane  
Concen: 1.339 ug/l  
RT: 8.236 min Scan# 1051  
Delta R.T. -0.023 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 56 Resp: 2755  
Ion Ratio Lower Upper  
56 100  
69 142.7 25.2 37.8#  
84 146.9 77.8 116.8#





#33

1,2-Dichloroethane-d4

Concen: 60.884 ug/l

RT: 8.583 min Scan# 1111

Delta R.T. -0.005 min

Lab File: VN075093.D

Acq: 31 Oct 2022 17:47

Instrument :

MSVOA\_N

ClientSampleId :

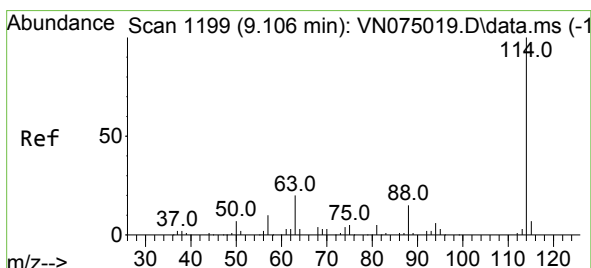
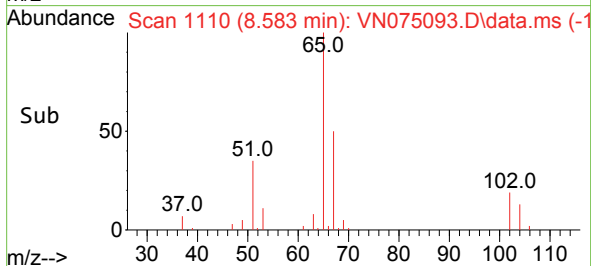
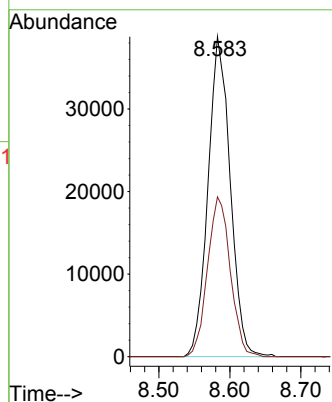
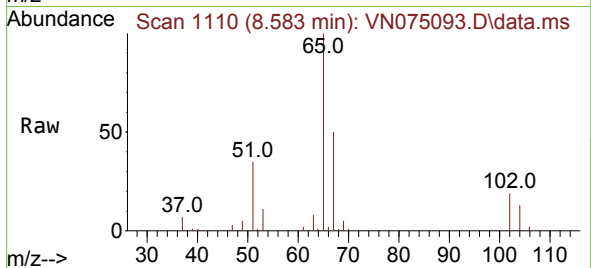
SOIL-WC-20221028

Tgt Ion: 65 Resp: 84223

Ion Ratio Lower Upper

65 100

67 51.3 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: VN075093.D

Acq: 31 Oct 2022 17:47

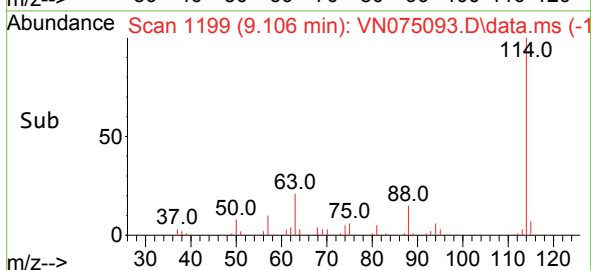
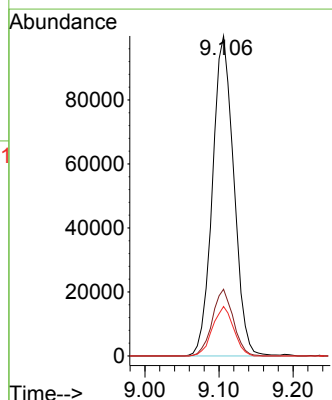
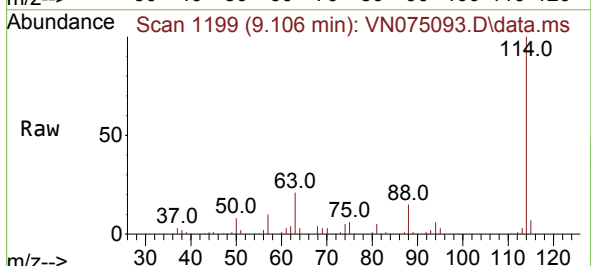
Tgt Ion:114 Resp: 199824

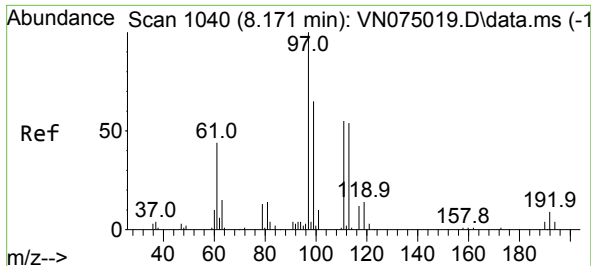
Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.6

88 15.5 0.0 29.0





#35

Dibromofluoromethane

Concen: 54.377 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075093.D

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SOIL-WC-20221028

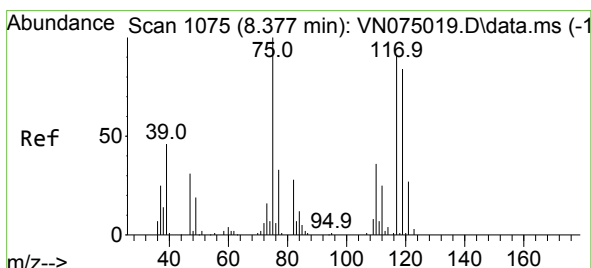
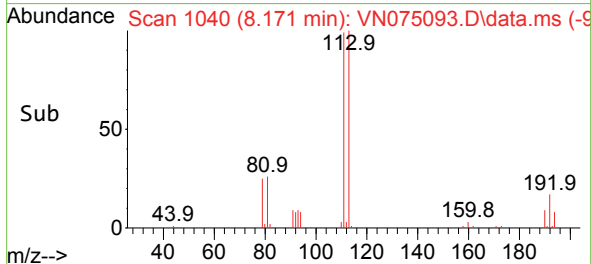
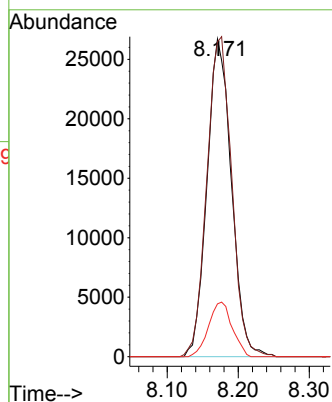
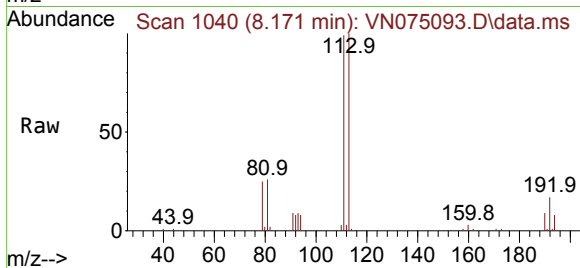
Tgt Ion:113 Resp: 63788

Ion Ratio Lower Upper

113 100

111 102.4 80.5 120.7

192 16.6 13.2 19.8



#36

1,1-Dichloropropene

Concen: 5.227 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075093.D

Acq: 31 Oct 2022 17:47

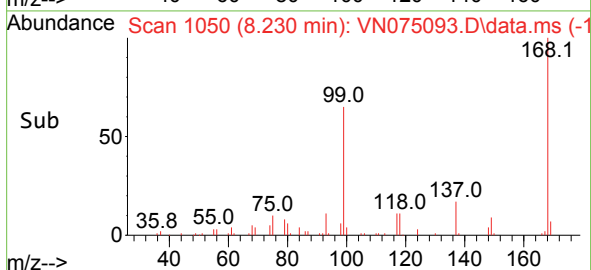
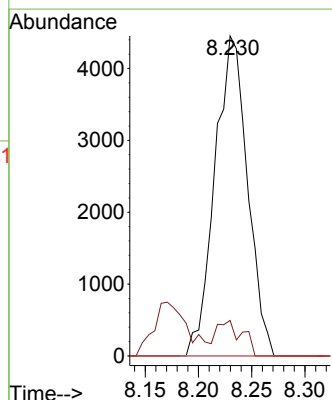
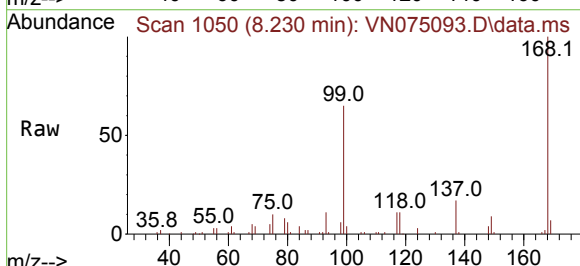
Tgt Ion: 75 Resp: 9492

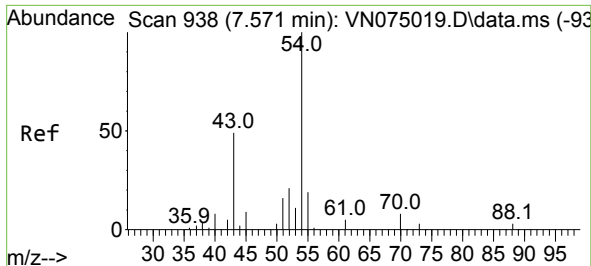
Ion Ratio Lower Upper

75 100

110 8.4 17.8 53.3#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 7.810 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN075093.D

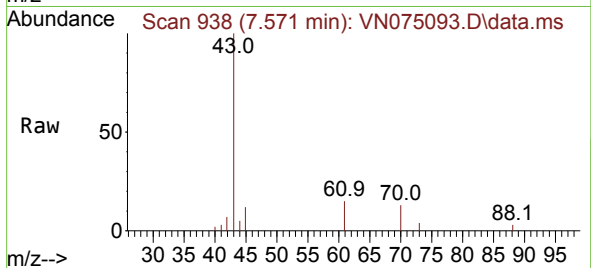
Acq: 31 Oct 2022 17:47

Instrument :

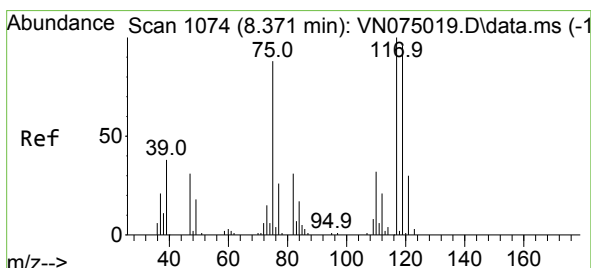
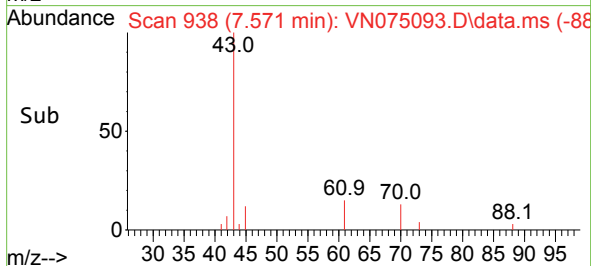
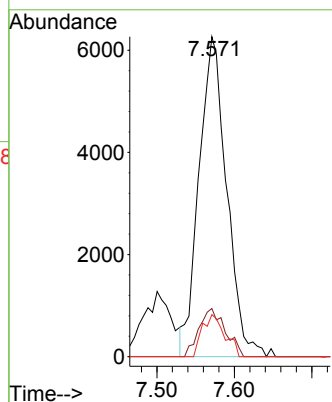
MSVOA\_N

ClientSampleId :

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|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 15556       |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 61          | 14.3  | 12.2 18.4   |
| 70          | 10.7  | 9.4 14.2    |



#38

Carbon Tetrachloride

Concen: 5.834 ug/l

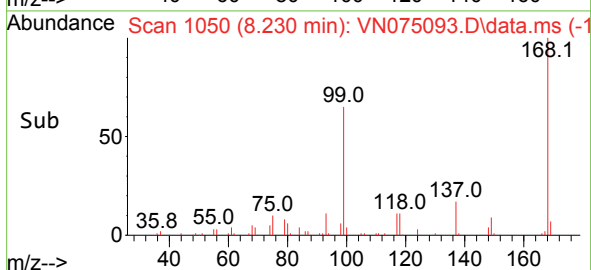
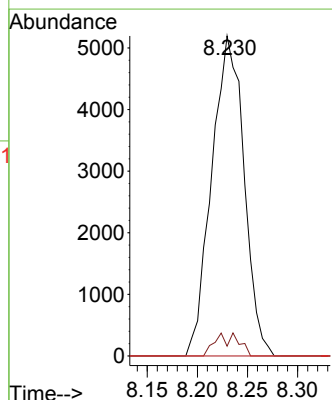
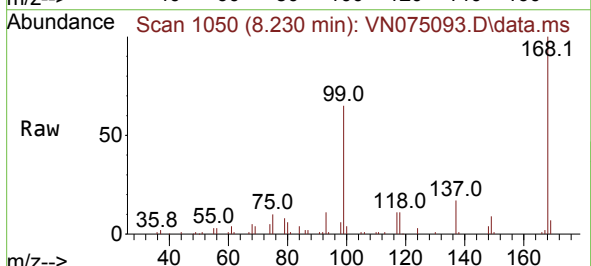
RT: 8.230 min Scan# 1050

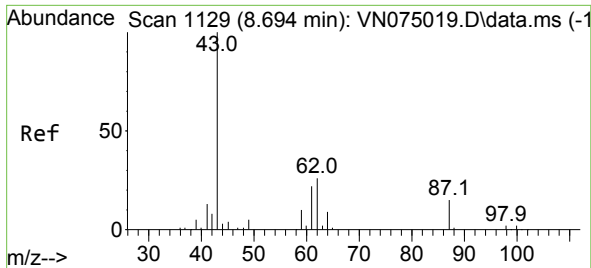
Delta R.T. -0.141 min

Lab File: VN075093.D

Acq: 31 Oct 2022 17:47

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 117 | Resp: | 11654       |
| Ion          | Ratio | Lower Upper |
| 117          | 100   |             |
| 119          | 3.1   | 76.7 115.1# |
| 121          | 0.0   | 23.9 35.9#  |

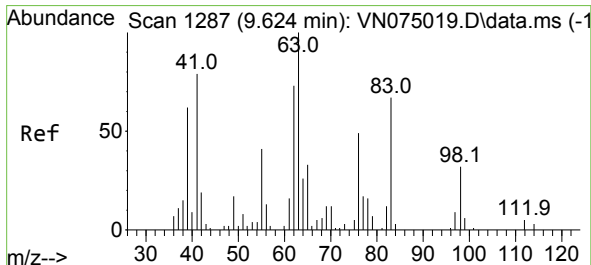
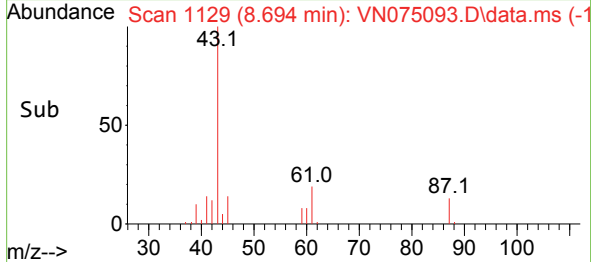
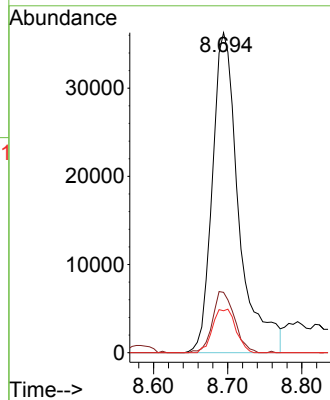
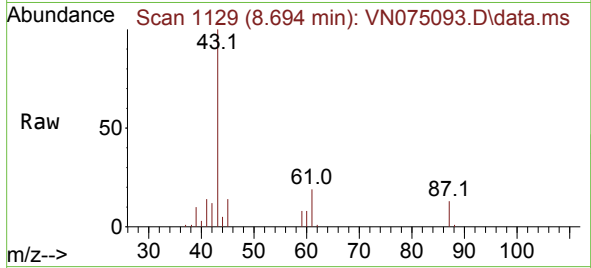




#43  
Isopropyl Acetate  
Concen: 29.187 ug/l  
RT: 8.694 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

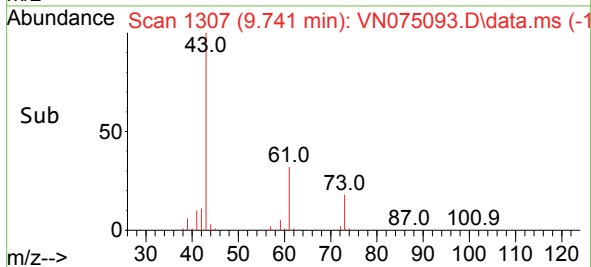
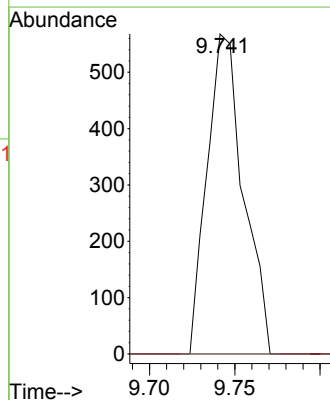
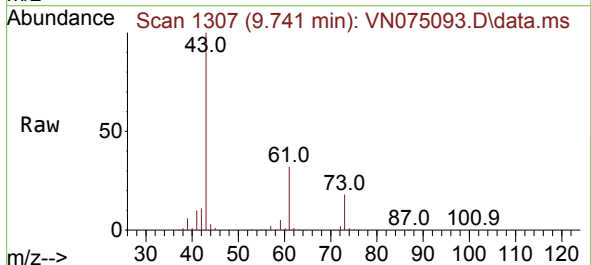
Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028

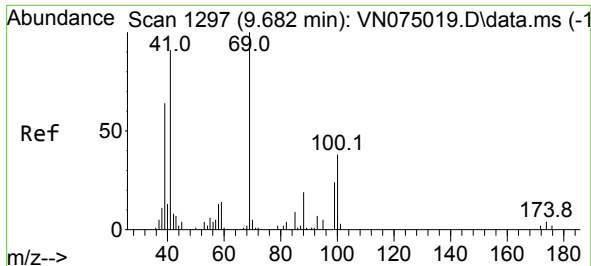
Tgt Ion: 43 Resp: 90169  
Ion Ratio Lower Upper  
43 100  
61 15.8 22.4 33.6#  
87 11.9 12.5 18.7#



#45  
1,2-Dichloropropane  
Concen: 0.637 ug/l  
RT: 9.741 min Scan# 1307  
Delta R.T. 0.117 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 63 Resp: 843  
Ion Ratio Lower Upper  
63 100  
65 0.0 26.1 39.1#

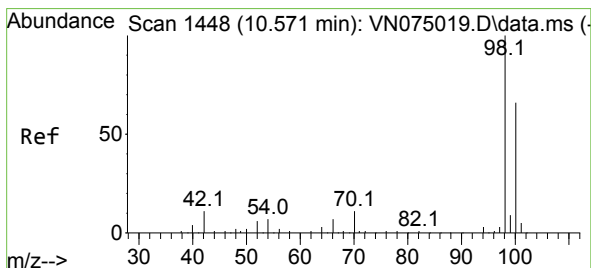
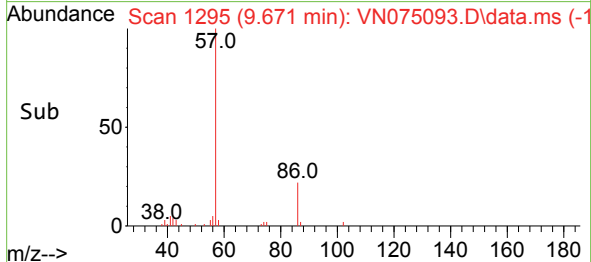
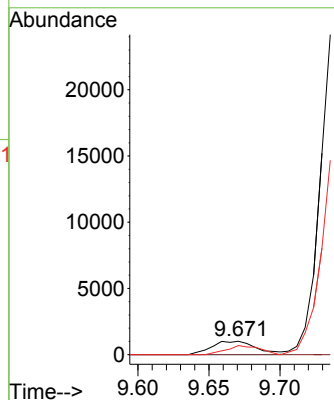
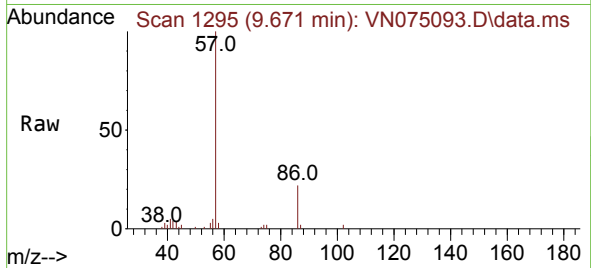




#48  
Methyl methacrylate  
Concen: 1.559 ug/l  
RT: 9.671 min Scan# 1295  
Delta R.T. -0.011 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

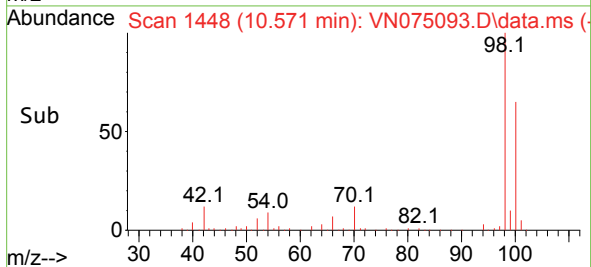
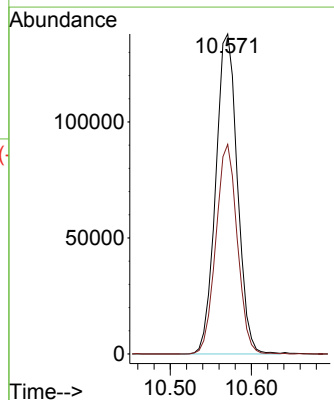
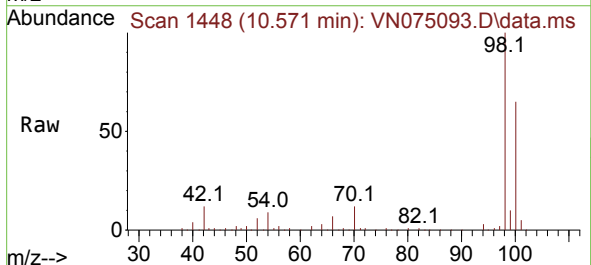
Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028

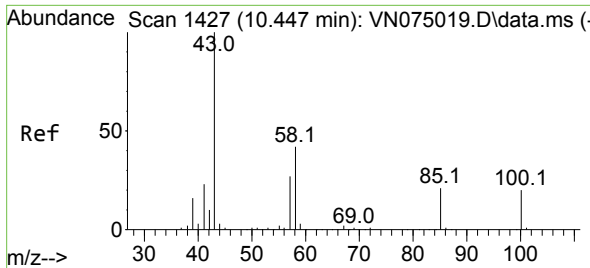
Tgt Ion: 41 Resp: 2209  
Ion Ratio Lower Upper  
41 100  
69 0.0 80.2 120.2#  
39 51.8 56.2 84.2#



#50  
Toluene-d8  
Concen: 56.189 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. -0.000 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 98 Resp: 255726  
Ion Ratio Lower Upper  
98 100  
100 64.8 53.0 79.6

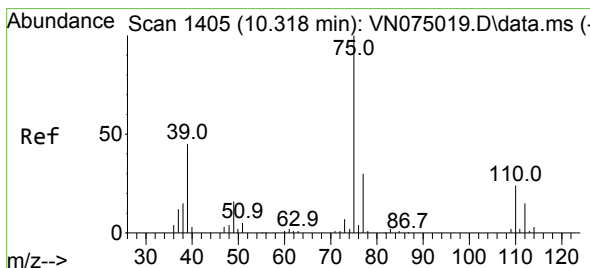
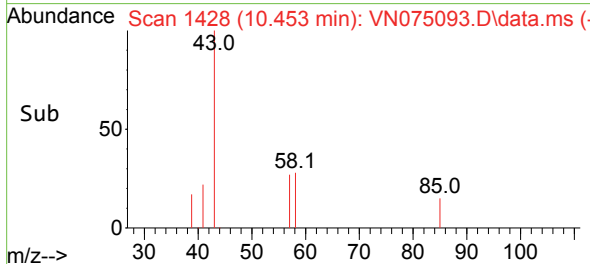
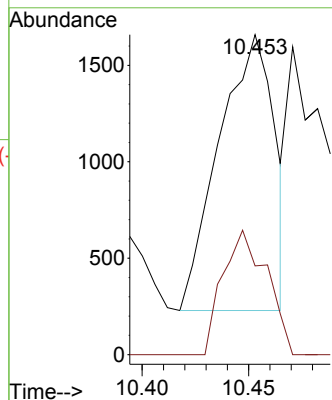
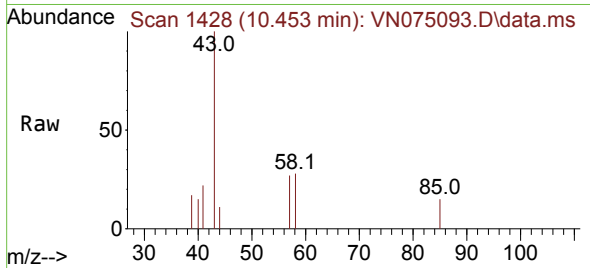




#51  
4-Methyl-2-Pentanone  
Concen: 1.300 ug/l  
RT: 10.453 min Scan# 1428  
Delta R.T. 0.006 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

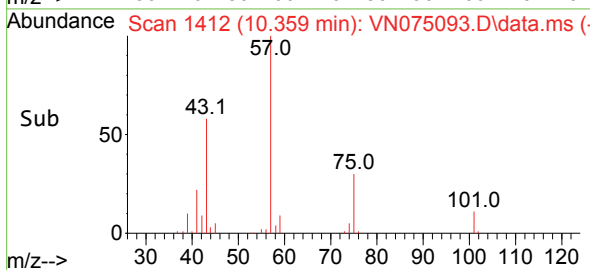
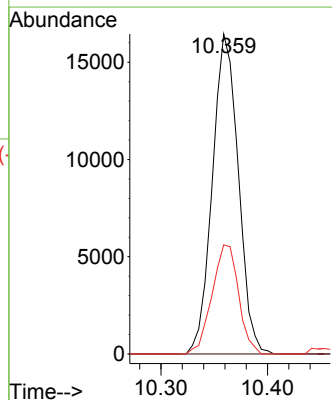
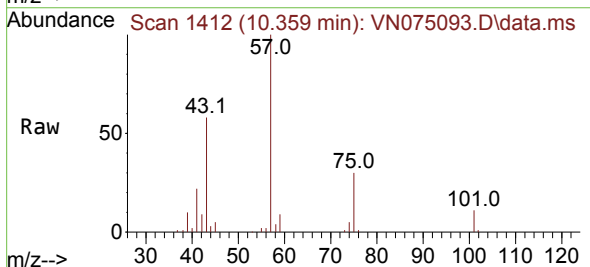
Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028

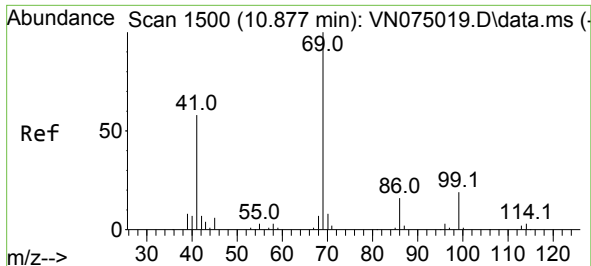
Tgt Ion: 43 Resp: 2591  
Ion Ratio Lower Upper  
43 100  
58 35.9 33.6 50.4



#54  
cis-1,3-Dichloropropene  
Concen: 12.437 ug/l  
RT: 10.359 min Scan# 1412  
Delta R.T. 0.041 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 75 Resp: 27798  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.7 35.5#  
39 34.1 35.8 53.6#

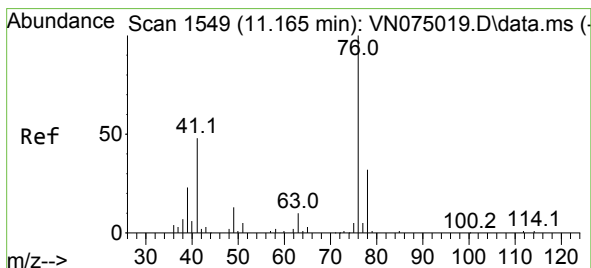
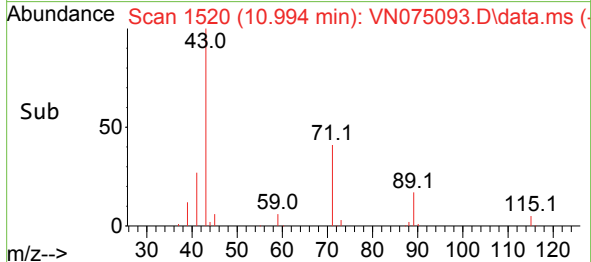
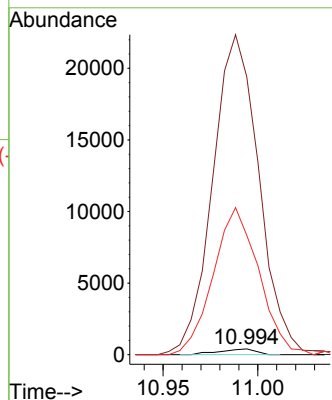
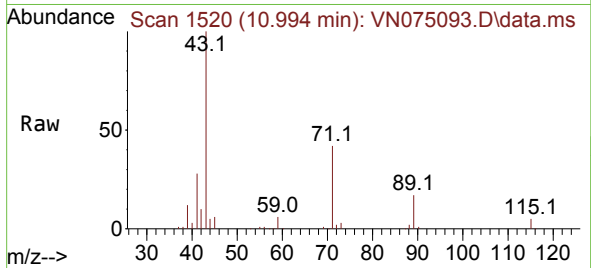




#56  
Ethyl methacrylate  
Concen: 0.236 ug/l  
RT: 10.994 min Scan# 11  
Delta R.T. 0.117 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

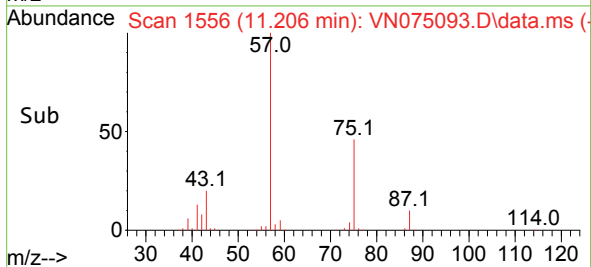
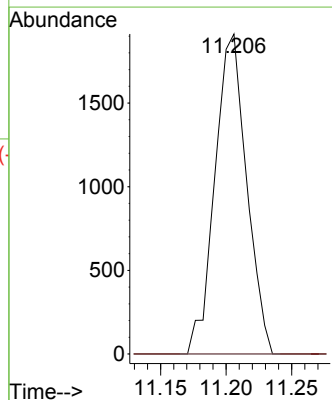
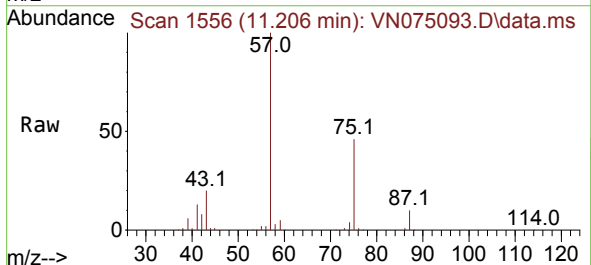
Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028

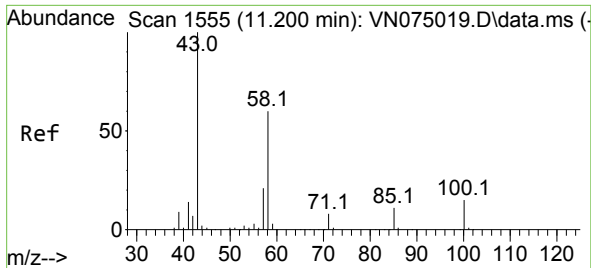
Tgt Ion: 69 Resp: 531  
Ion Ratio Lower Upper  
69 100  
41 7208.1 45.6 68.4#  
39 3255.2 28.5 42.7#



#57  
1,3-Dichloropropane  
Concen: 1.311 ug/l  
RT: 11.206 min Scan# 1556  
Delta R.T. 0.041 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 76 Resp: 3219  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

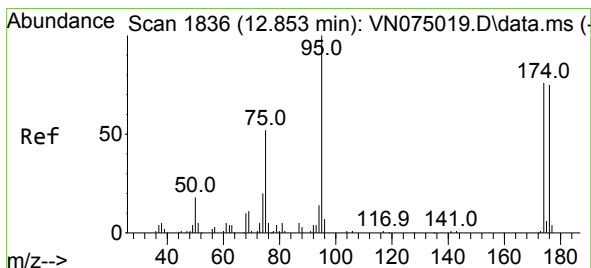
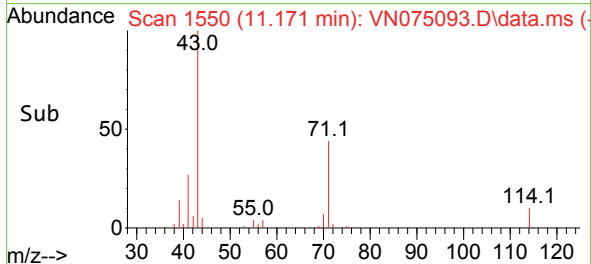
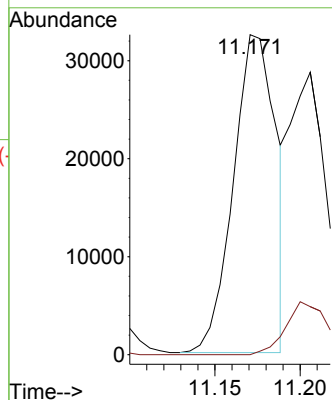
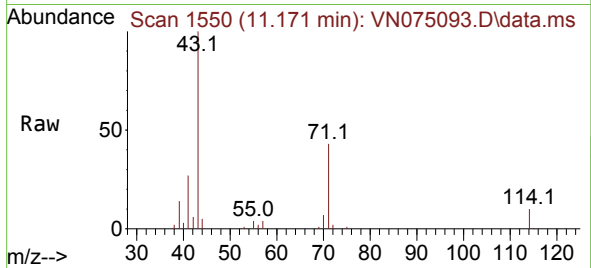




#59  
2-Hexanone  
Concen: 37.386 ug/l  
RT: 11.171 min Scan# 111  
Delta R.T. -0.029 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

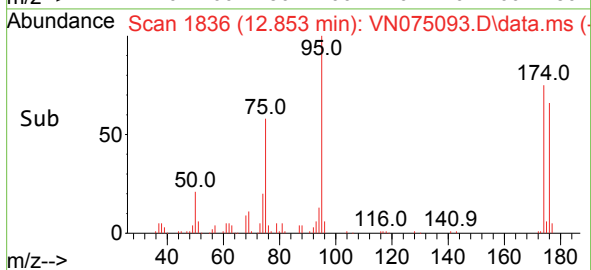
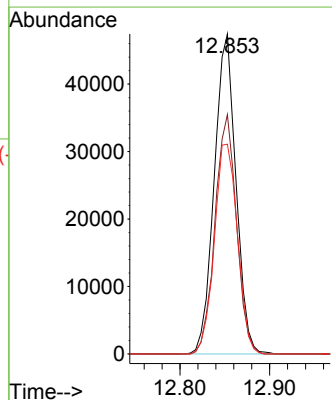
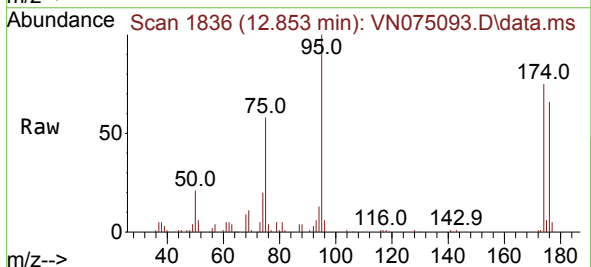
Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028

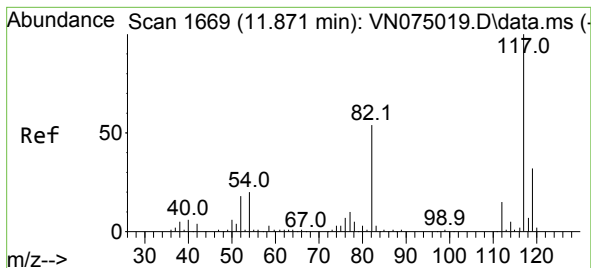
Tgt Ion: 43 Resp: 56567  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.6 88.8#



#62  
4-Bromofluorobenzene  
Concen: 49.728 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Tgt Ion: 95 Resp: 79502  
Ion Ratio Lower Upper  
95 100  
174 74.0 0.0 147.4  
176 70.0 0.0 142.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN075093.D

Acq: 31 Oct 2022 17:47

Instrument :

MSVOA\_N

ClientSampleId :

SOIL-WC-20221028

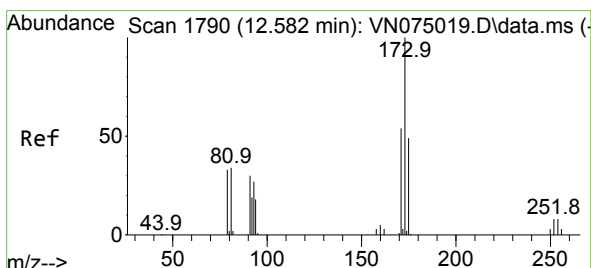
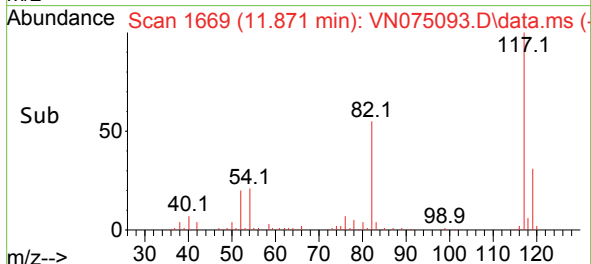
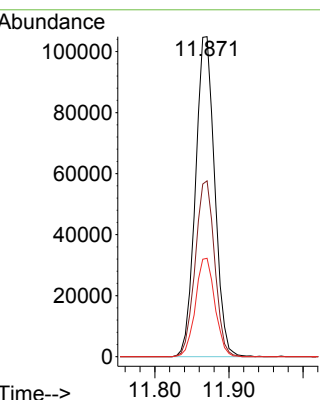
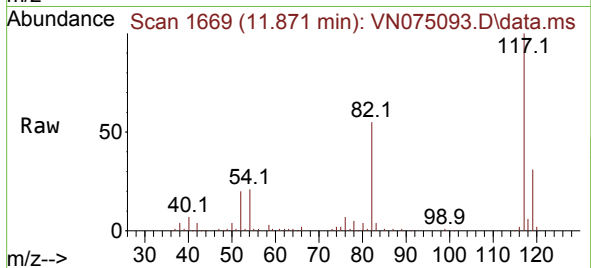
Tgt Ion:117 Resp: 188717

Ion Ratio Lower Upper

117 100

82 55.0 43.1 64.7

119 30.7 25.5 38.3



#71

Bromoform

Concen: 0.473 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

Lab File: VN075093.D

Acq: 31 Oct 2022 17:47

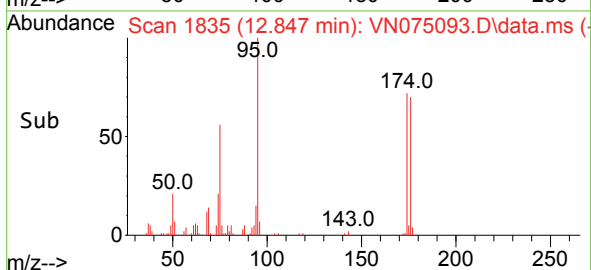
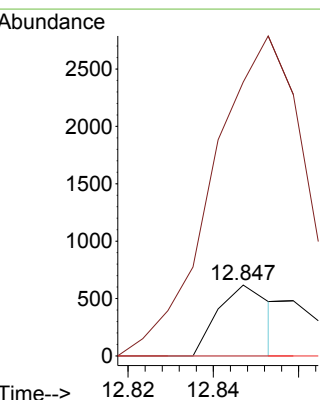
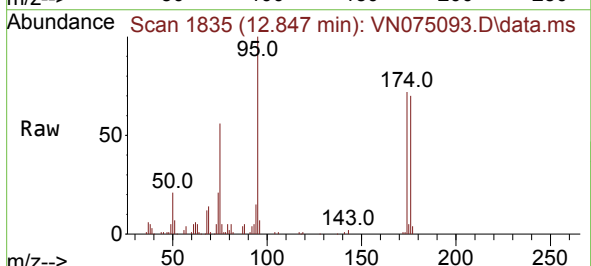
Tgt Ion:173 Resp: 529

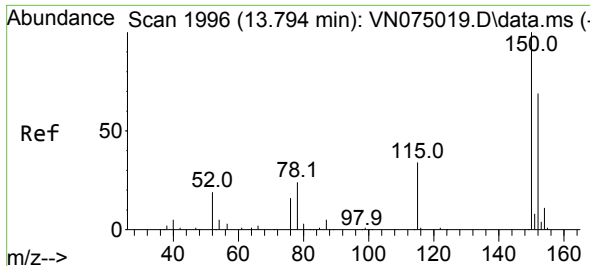
Ion Ratio Lower Upper

173 100

175 710.8 24.6 74.0#

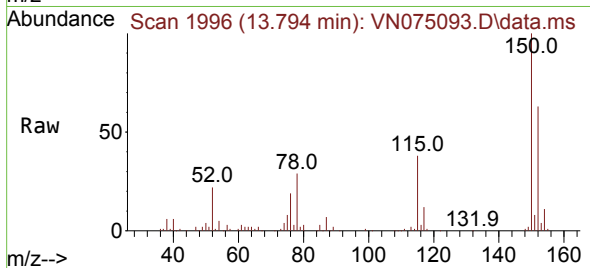
254 0.0 0.0 0.0



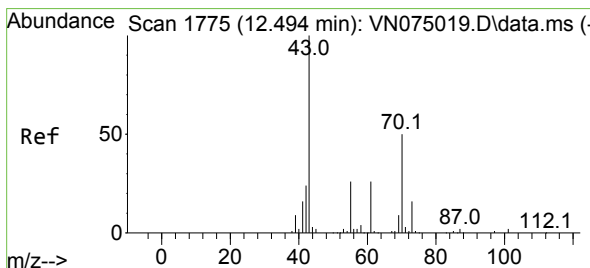
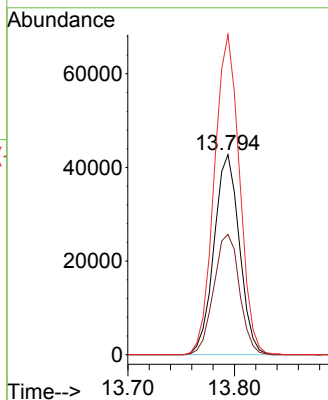
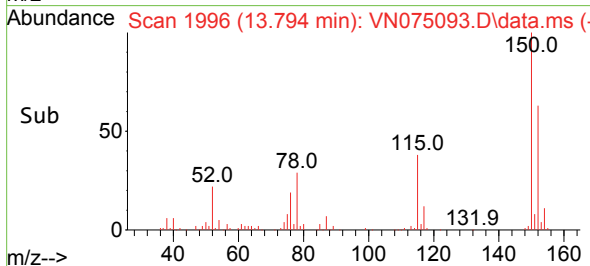


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

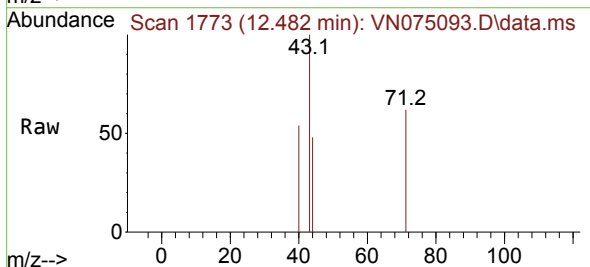
Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028



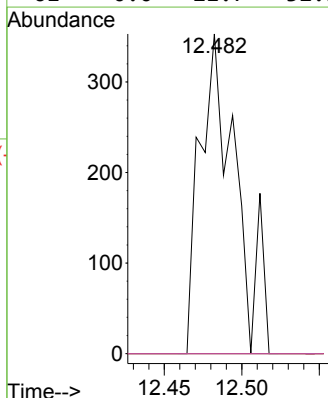
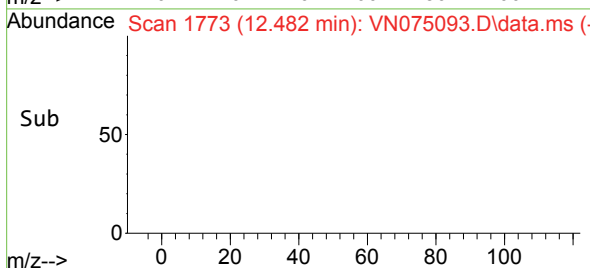
Tgt Ion:152 Resp: 70510  
Ion Ratio Lower Upper  
152 100  
115 61.2 30.2 90.6  
150 159.4 0.0 348.4

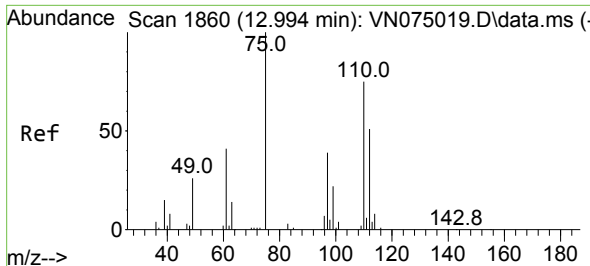


#74  
N-ethyl acetate  
Concen: 0.272 ug/l  
RT: 12.482 min Scan# 1773  
Delta R.T. -0.012 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47



Tgt Ion: 43 Resp: 570  
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#

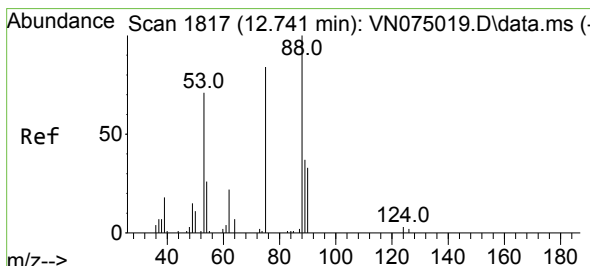
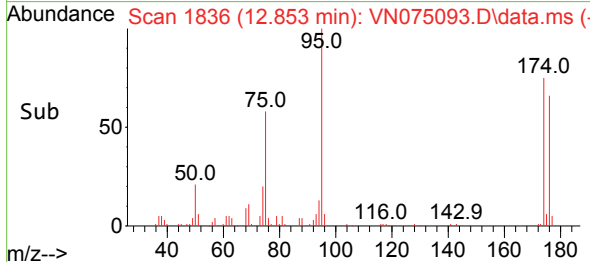
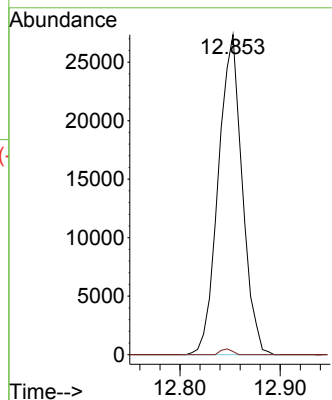
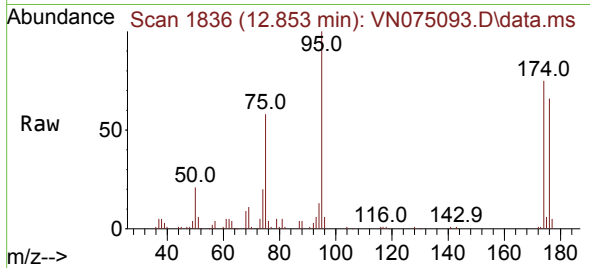




#76  
1,2,3-Trichloropropane  
Concen: 30.221 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

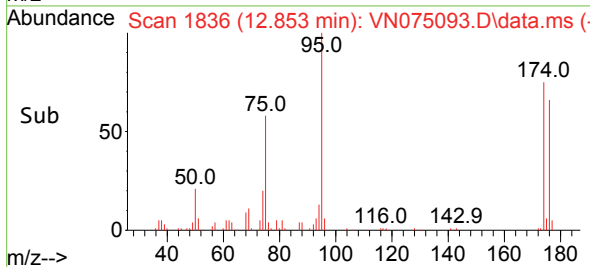
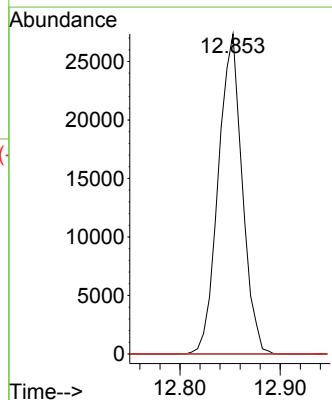
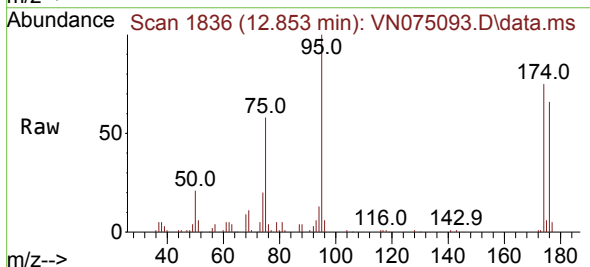
Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028

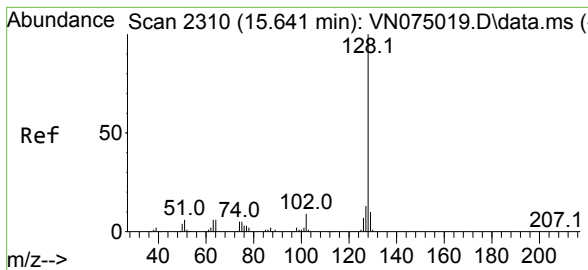
Tgt Ion: 75 Resp: 45244  
Ion Ratio Lower Upper  
75 100  
77 0.9 75.6 226.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.576 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.112 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

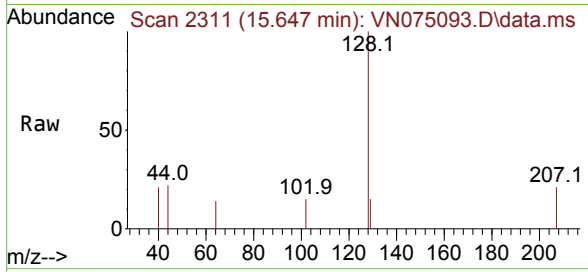
Tgt Ion: 75 Resp: 45244  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.5 117.7#  
89 0.0 37.7 56.5#





#95  
Naphthalene  
Concen: 0.482 ug/l  
RT: 15.647 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN075093.D  
Acq: 31 Oct 2022 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
SOIL-WC-20221028



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1936  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 3.4   | 10.4  | 15.6# |
| 129      | 3.3   | 8.6   | 12.8# |

