

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083022\  
 Data File : VN074194.D  
 Acq On : 31 Aug 2022 03:25  
 Operator : JC\MD  
 Sample : N4421-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC-PALM-SP-01

Quant Time: Aug 31 07:07:33 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 31 07:02:40 2022  
 Response via : Initial Calibration

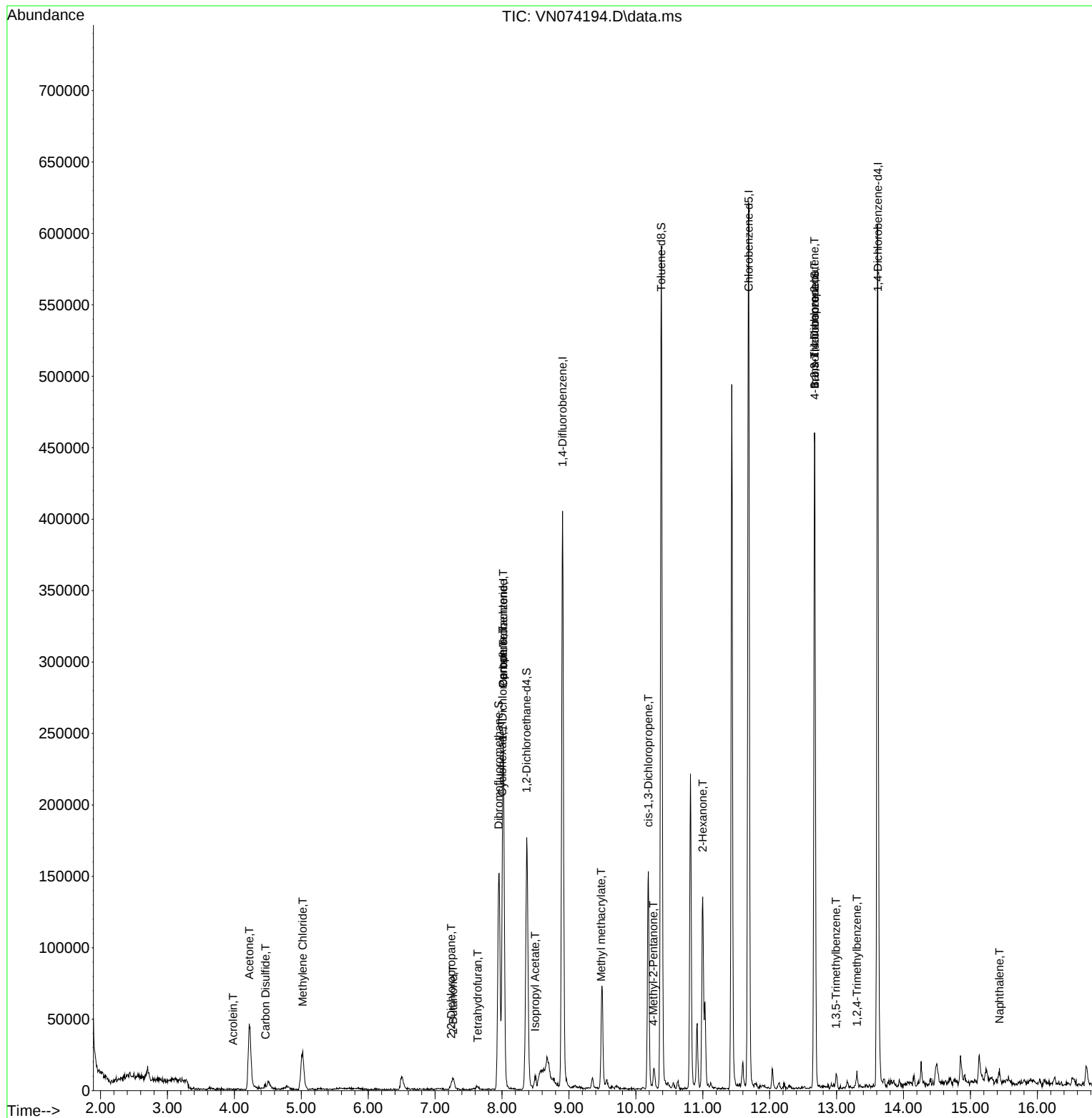
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.016          | 168  | 171370              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904          | 114  | 320964              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686         | 117  | 330190              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.616         | 152  | 146742              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369          | 65   | 132925              | 50.002    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 100.000% |           |        |          |
| 35) Dibromofluoromethane      | 7.951          | 113  | 108511              | 51.955    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 103.900% |           |        |          |
| 50) Toluene-d8                | 10.381         | 98   | 372338              | 45.269    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 90.540%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.674         | 95   | 137813              | 55.097    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 110.200% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 6) Chloroethane               | 2.952          | 64   | 94                  | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 5.304          | 59   | 505                 | Below Cal | #      | 72       |
| 13) Acrolein                  | 3.981          | 56   | 192                 | 0.327     | ug/l # | 50       |
| 16) Acetone                   | 4.222          | 43   | 82579               | 46.488    | ug/l   | 94       |
| 17) Carbon Disulfide          | 4.463          | 76   | 4351                | 0.761     | ug/l # | 95       |
| 18) Methyl Acetate            | 4.775          | 43   | 2086                | Below Cal | #      | 77       |
| 20) Methylene Chloride        | 5.022          | 84   | 17592               | 5.417     | ug/l # | 70       |
| 25) 2-Butanone                | 7.269          | 43   | 13587               | 4.781     | ug/l # | 78       |
| 26) 2,2-Dichloropropane       | 7.240          | 77   | 63                  | 0.289     | ug/l # | 53       |
| 29) Tetrahydrofuran           | 7.634          | 42   | 1471                | 0.813     | ug/l # | 40       |
| 31) Cyclohexane               | 8.004          | 56   | 5872                | 1.337     | ug/l # | 63       |
| 36) 1,1-Dichloropropene       | 8.010          | 75   | 17122               | 5.053     | ug/l # | 44       |
| 38) Carbon Tetrachloride      | 8.016          | 117  | 18253               | 5.931     | ug/l # | 22       |
| 43) Isopropyl Acetate         | 8.492          | 43   | 9546                | 1.253     | ug/l # | 85       |
| 48) Methyl methacrylate       | 9.481          | 41   | 6262                | 1.730     | ug/l # | 10       |
| 51) 4-Methyl-2-Pentanone      | 10.263         | 43   | 12303               | 2.225     | ug/l # | 81       |
| 54) cis-1,3-Dichloropropene   | 10.186         | 75   | 23401               | 5.863     | ug/l # | 76       |
| 59) 2-Hexanone                | 10.998         | 43   | 120802              | 28.789    | ug/l # | 21       |
| 76) 1,2,3-Trichloropropane    | 12.669         | 75   | 82472               | 22.405    | ug/l # | 1        |
| 80) 1,3,5-Trimethylbenzene    | 12.992         | 105  | 2370                | 0.232     | ug/l   | 65       |
| 81) trans-1,4-Dichloro-2-b... | 12.669         | 75   | 82472               | 58.336    | ug/l # | 11       |
| 84) 1,2,4-Trimethylbenzene    | 13.304         | 105  | 4770                | 0.484     | ug/l   | 92       |
| 95) Naphthalene               | 15.433         | 128  | 6864                | 1.753     | ug/l # | 82       |
| -----                         |                |      |                     |           |        |          |

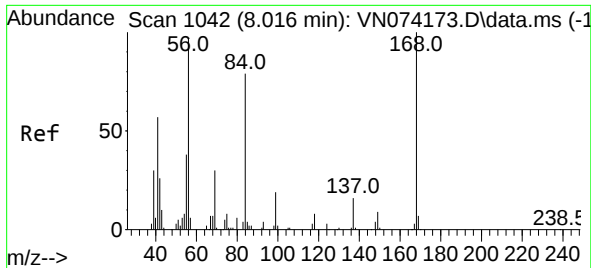
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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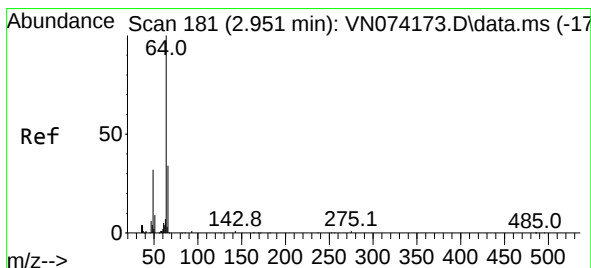
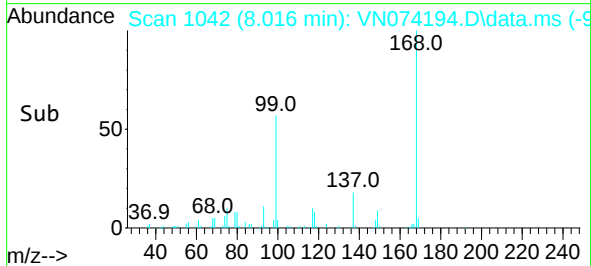
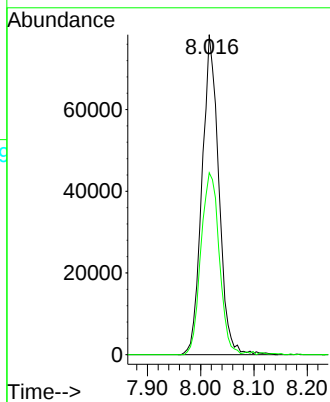
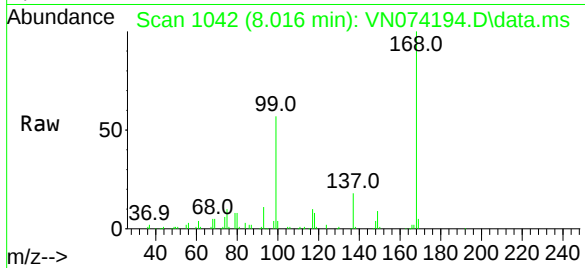




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

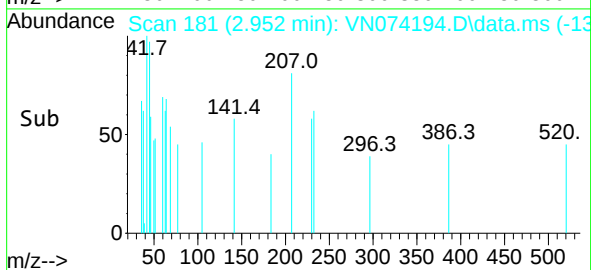
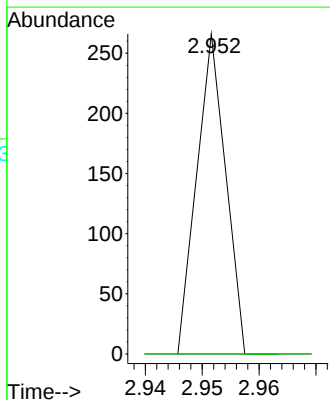
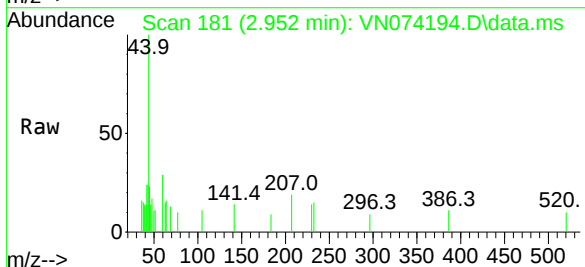
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-PALM-SP-01

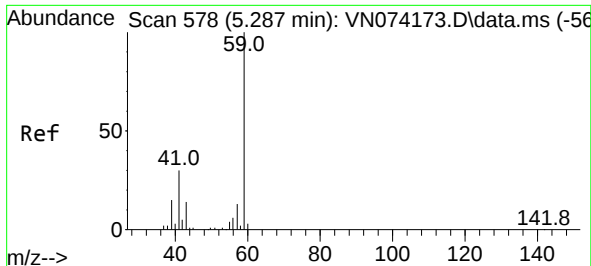
Tgt Ion:168 Resp: 171370  
Ion Ratio Lower Upper  
168 100  
99 56.9 42.3 63.5



#6  
Chloroethane  
Concen: Below Cal  
RT: 2.952 min Scan# 181  
Delta R.T. 0.001 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion: 64 Resp: 94  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.304 min Scan# 51

Delta R.T. 0.017 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

Instrument :

MSVOA\_N

ClientSampleId :

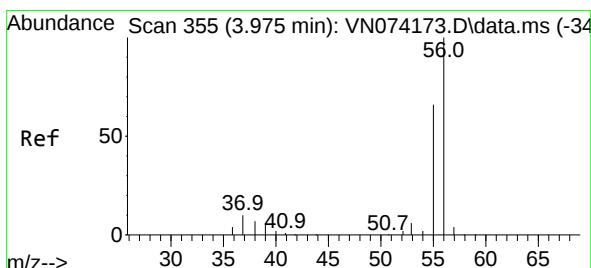
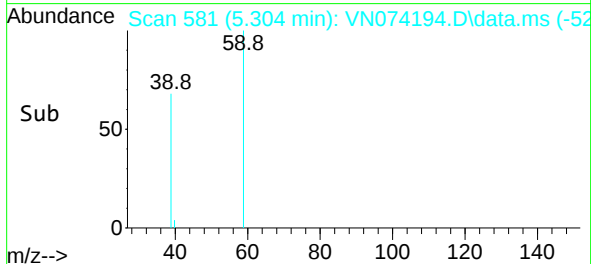
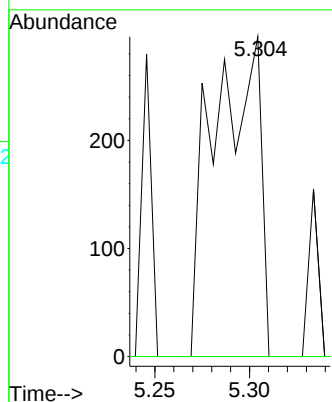
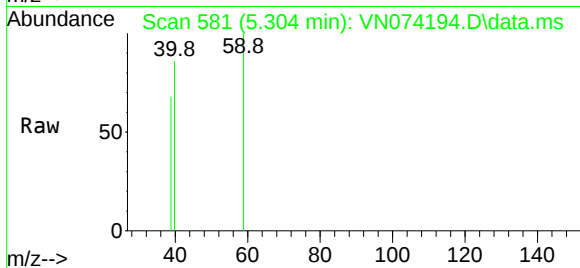
WC-PALM-SP-01

Tgt Ion: 59 Resp: 505

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.327 ug/l

RT: 3.981 min Scan# 356

Delta R.T. 0.006 min

Lab File: VN074194.D

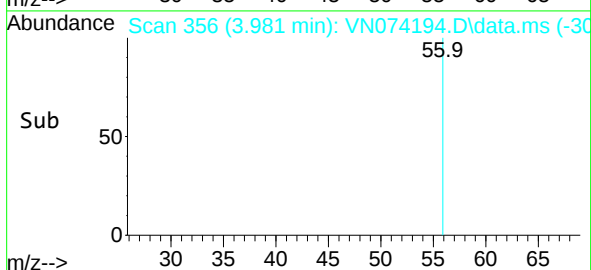
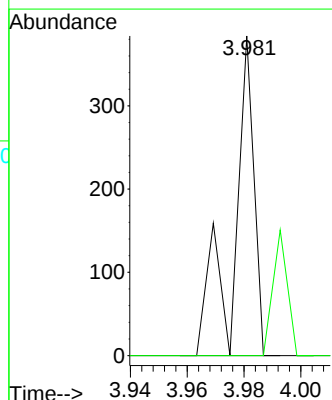
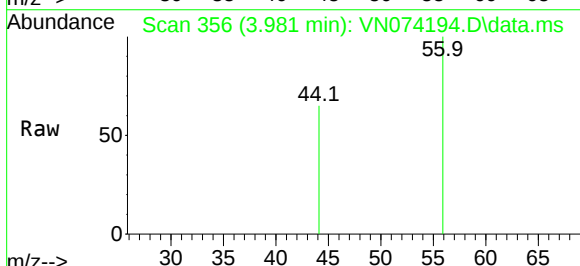
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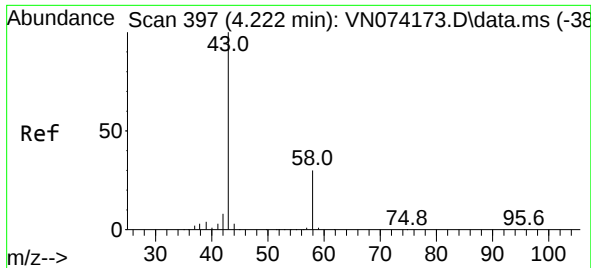
Tgt Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 27.6 54.8 82.2#





#16

Acetone

Concen: 46.488 ug/l

RT: 4.222 min Scan# 397

Delta R.T. 0.000 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

Instrument :

MSVOA\_N

ClientSampleId :

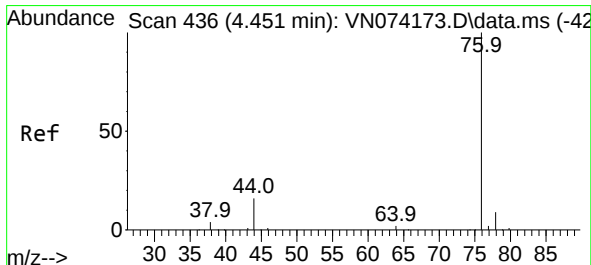
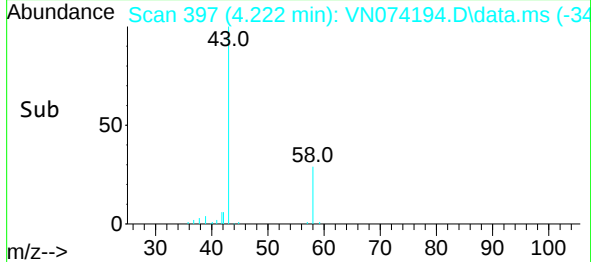
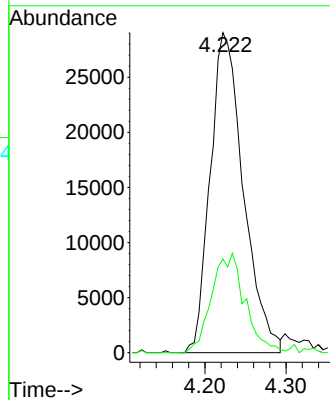
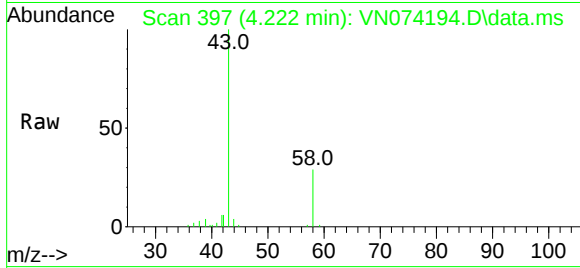
WC-PALM-SP-01

Tgt Ion: 43 Resp: 82579

Ion Ratio Lower Upper

43 100

58 29.3 26.0 39.0



#17

Carbon Disulfide

Concen: 0.761 ug/l

RT: 4.463 min Scan# 438

Delta R.T. 0.012 min

Lab File: VN074194.D

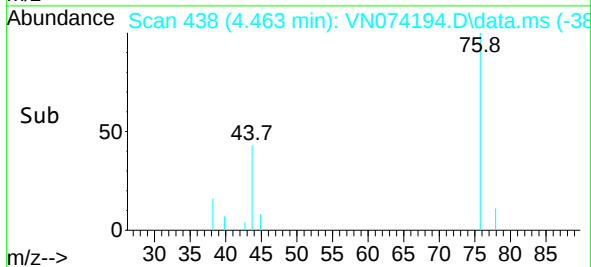
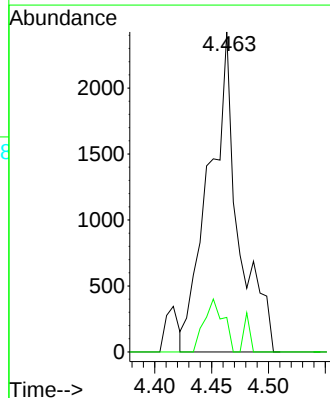
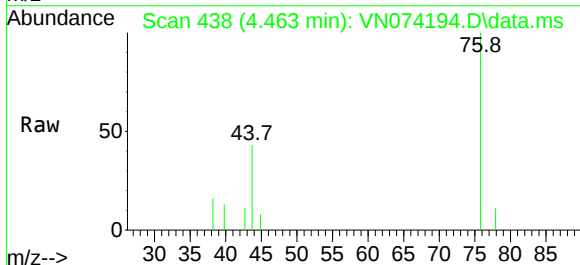
Acq: 31 Aug 2022 03:25

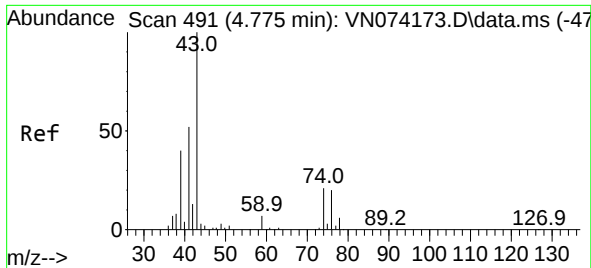
Tgt Ion: 76 Resp: 4351

Ion Ratio Lower Upper

76 100

78 10.8 7.2 10.8#

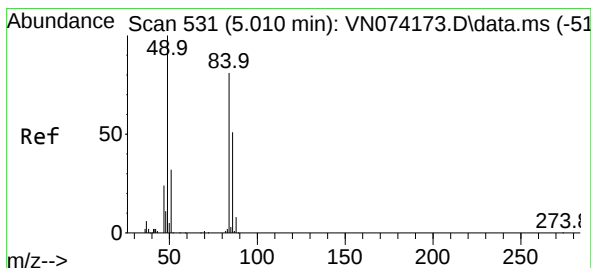
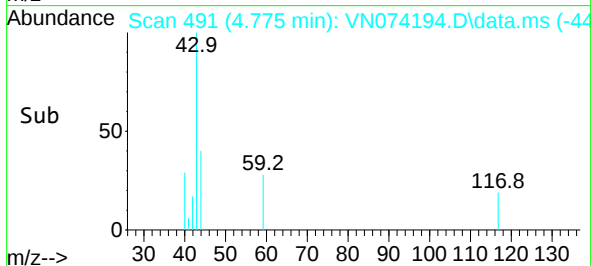
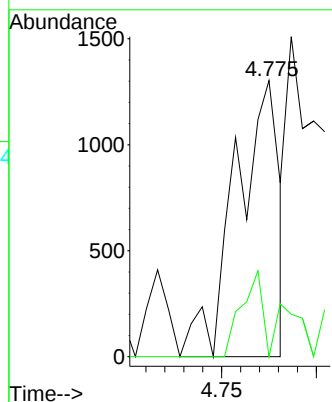
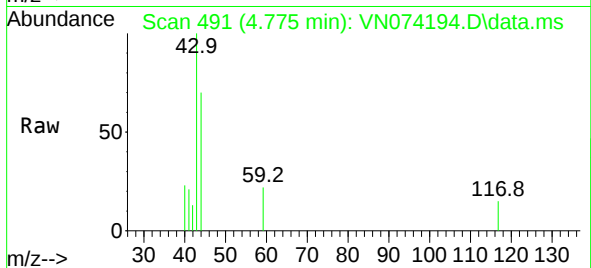




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.775 min Scan# 491  
Delta R.T. 0.000 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

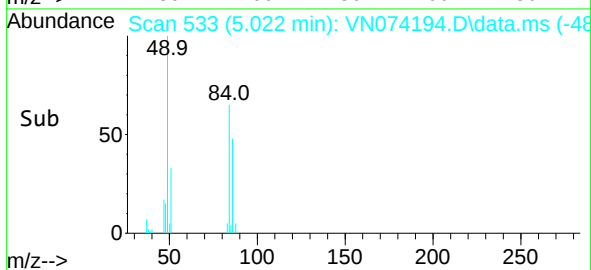
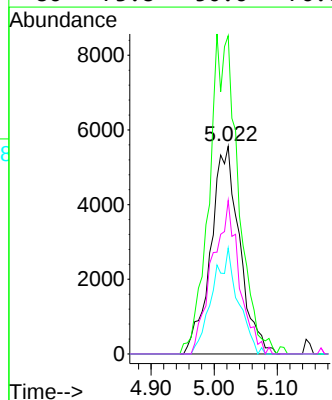
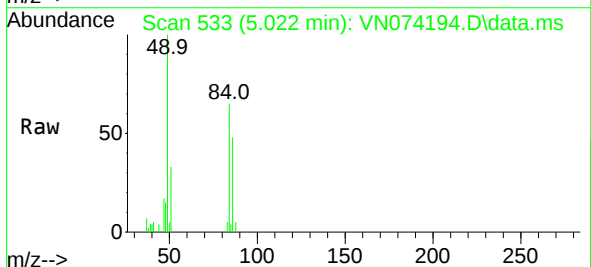
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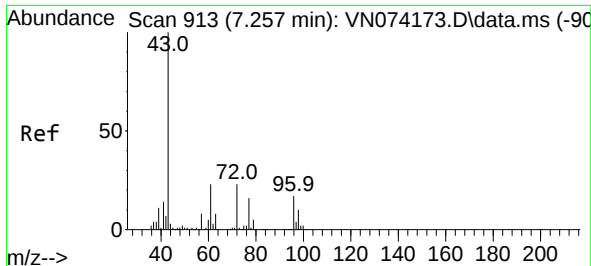
Tgt Ion: 43 Resp: 2086  
Ion Ratio Lower Upper  
43 100  
74 14.9 21.6 32.4#



#20  
Methylene Chloride  
Concen: 5.417 ug/l  
RT: 5.022 min Scan# 533  
Delta R.T. 0.012 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion: 84 Resp: 17592  
Ion Ratio Lower Upper  
84 100  
49 153.2 88.3 132.5#  
51 51.0 28.2 42.2#  
86 73.8 50.6 76.0

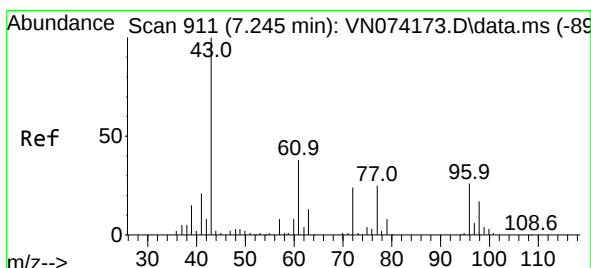
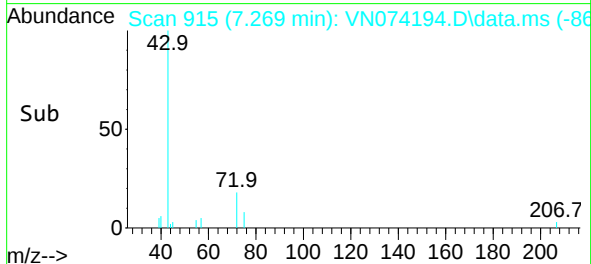
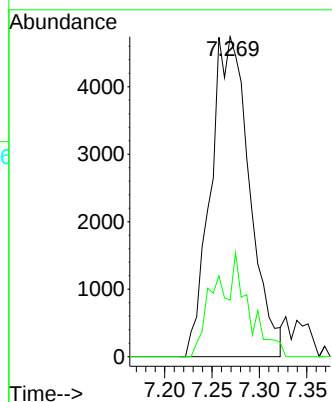
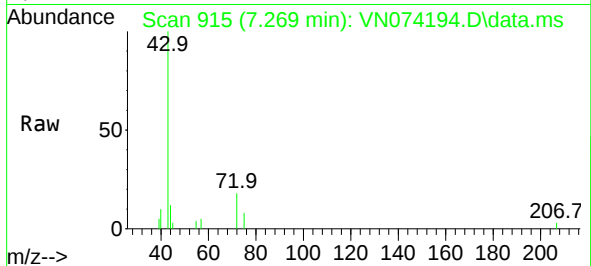




#25  
2-Butanone  
Concen: 4.781 ug/l  
RT: 7.269 min Scan# 913  
Delta R.T. 0.012 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

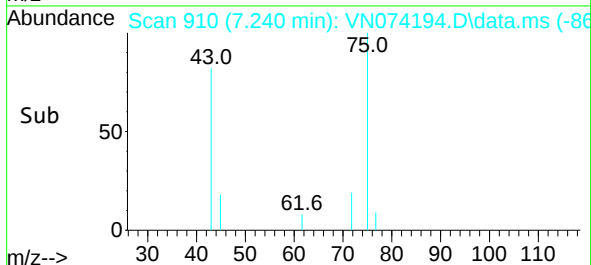
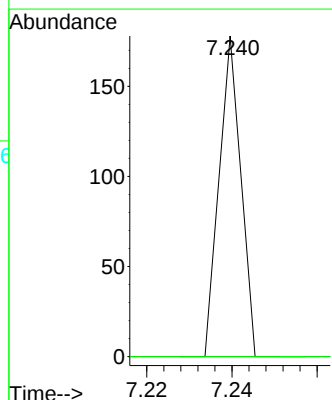
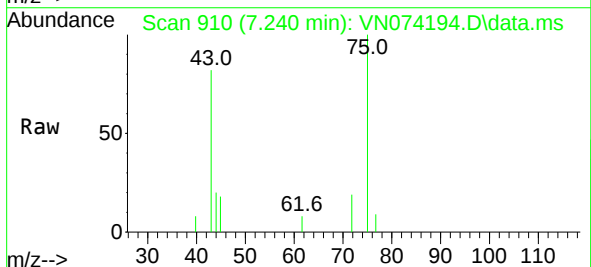
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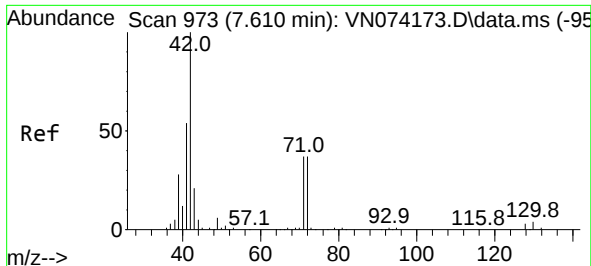
Tgt Ion: 43 Resp: 13587  
Ion Ratio Lower Upper  
43 100  
72 17.7 23.7 35.5#



#26  
2,2-Dichloropropane  
Concen: 0.289 ug/l  
RT: 7.240 min Scan# 910  
Delta R.T. -0.005 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion: 77 Resp: 63  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.4 34.2#





#29

Tetrahydrofuran

Concen: 0.813 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

Instrument :

MSVOA\_N

ClientSampleId :

WC-PALM-SP-01

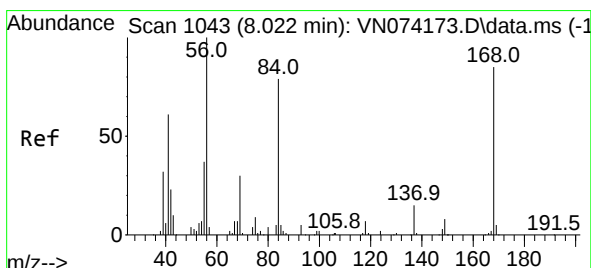
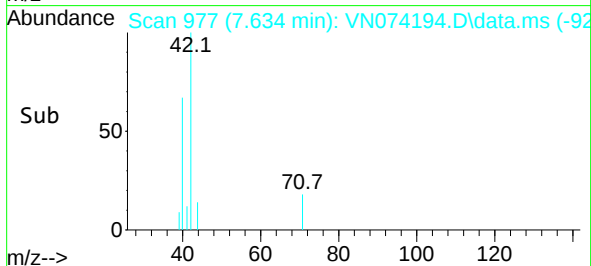
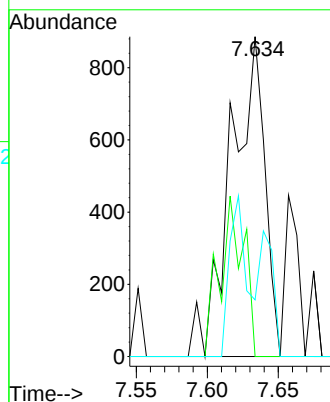
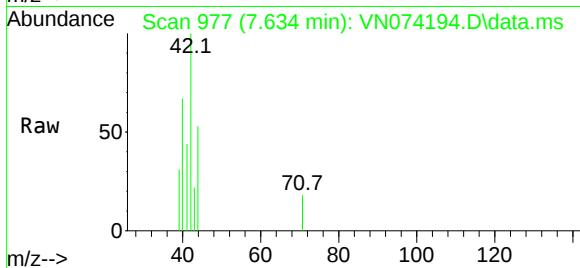
Tgt Ion: 42 Resp: 1471

Ion Ratio Lower Upper

42 100

72 0.0 39.7 59.5#

71 15.4 36.6 55.0#



#31

Cyclohexane

Concen: 1.337 ug/l

RT: 8.004 min Scan# 1040

Delta R.T. -0.018 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

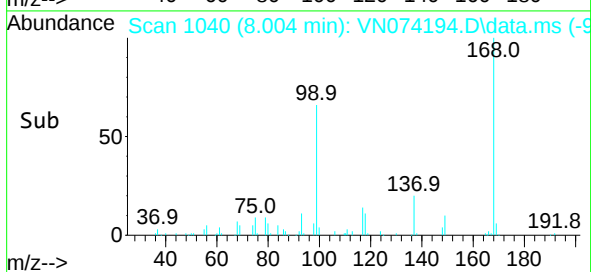
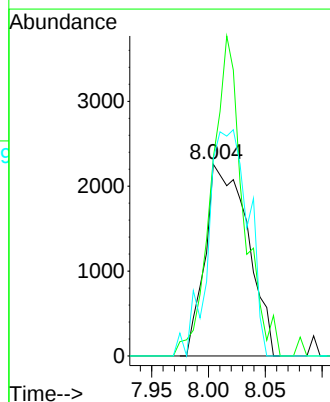
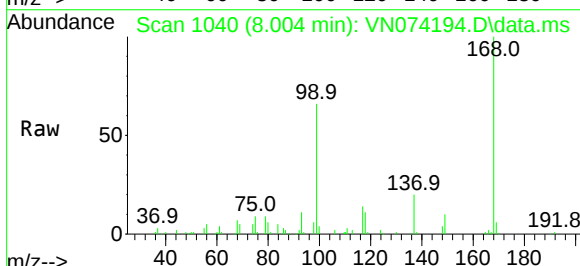
Tgt Ion: 56 Resp: 5872

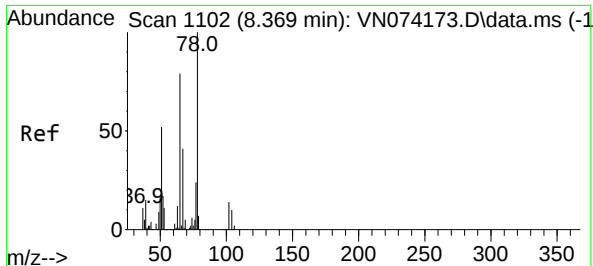
Ion Ratio Lower Upper

56 100

69 103.5 27.8 41.8#

84 102.9 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 50.002 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN074194.D

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MSVOA\_N

ClientSampleId :

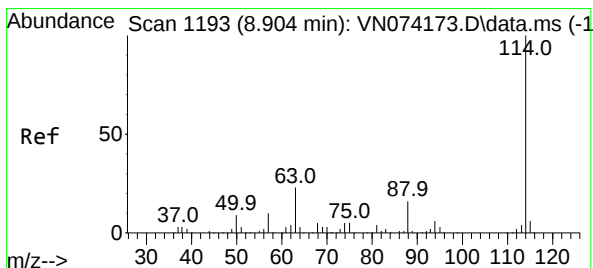
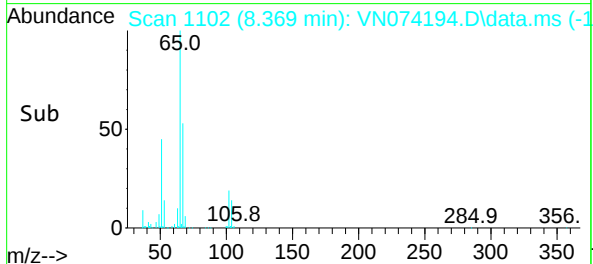
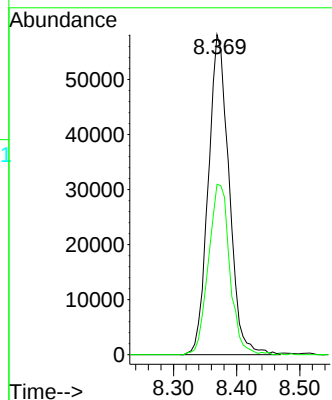
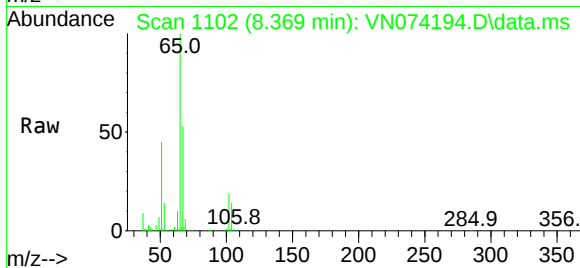
WC-PALM-SP-01

Tgt Ion: 65 Resp: 132925

Ion Ratio Lower Upper

65 100

67 54.7 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

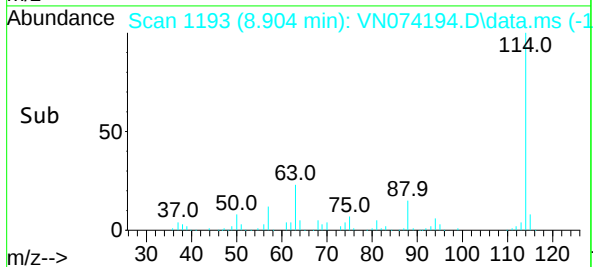
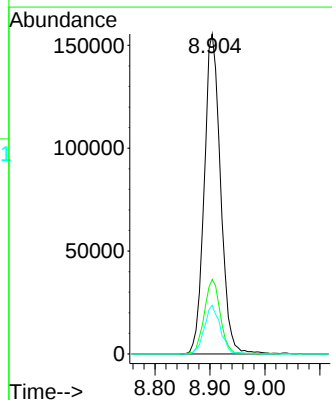
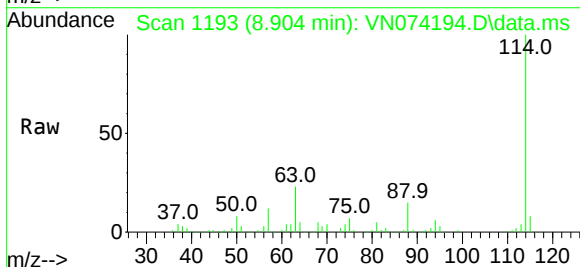
Tgt Ion: 114 Resp: 320964

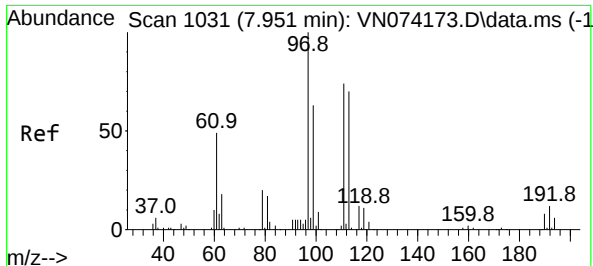
Ion Ratio Lower Upper

114 100

63 23.3 0.0 40.0

88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.955 ug/l

RT: 7.951 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

Instrument :

MSVOA\_N

ClientSampleId :

WC-PALM-SP-01

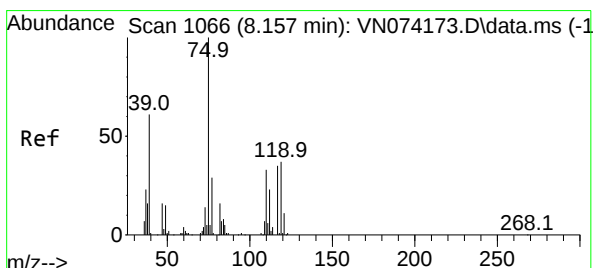
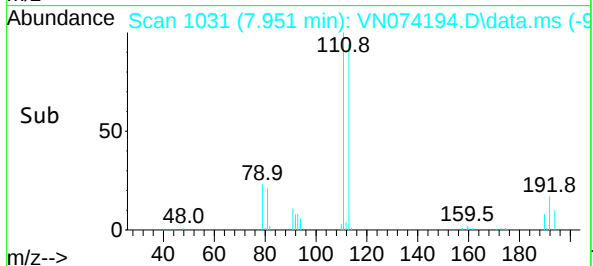
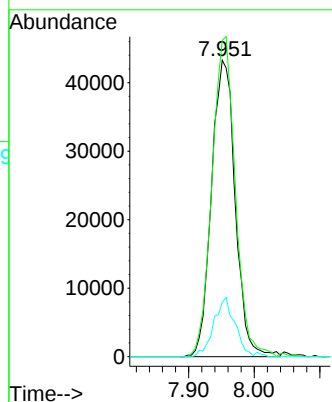
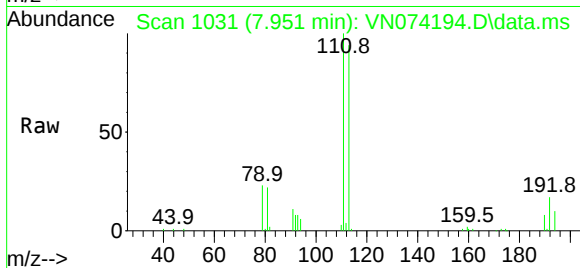
Tgt Ion:113 Resp: 108511

Ion Ratio Lower Upper

113 100

111 106.5 81.4 122.0

192 17.7 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.053 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.147 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

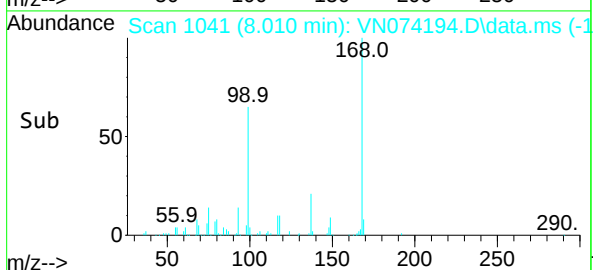
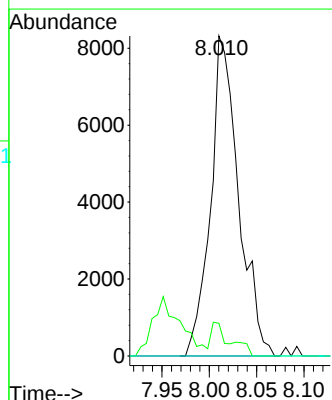
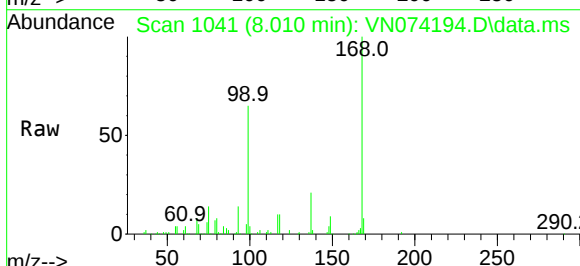
Tgt Ion: 75 Resp: 17122

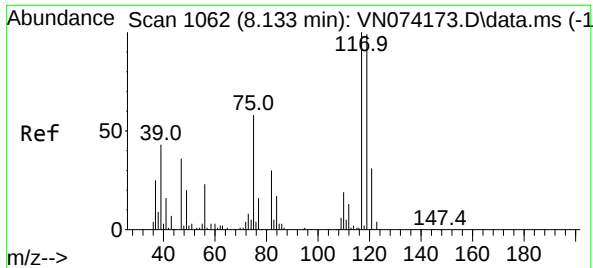
Ion Ratio Lower Upper

75 100

110 3.4 18.3 54.8#

77 0.0 25.1 37.7#

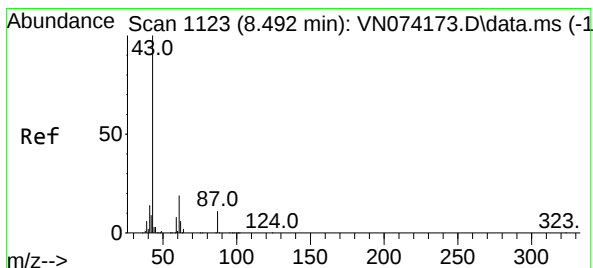
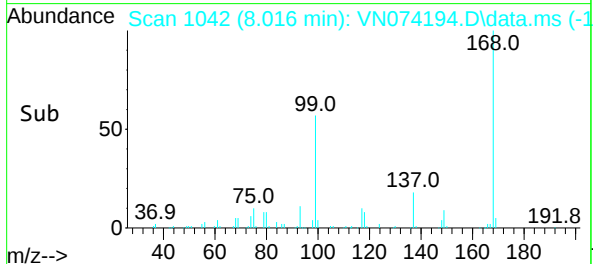
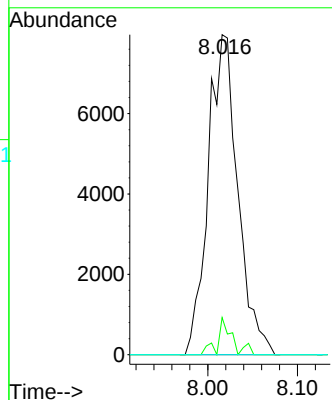
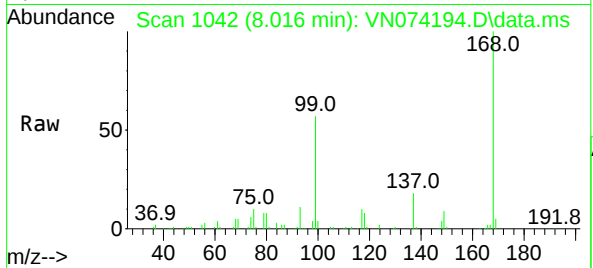




#38  
Carbon Tetrachloride  
Concen: 5.931 ug/l  
RT: 8.016 min Scan# 117  
Delta R.T. -0.117 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

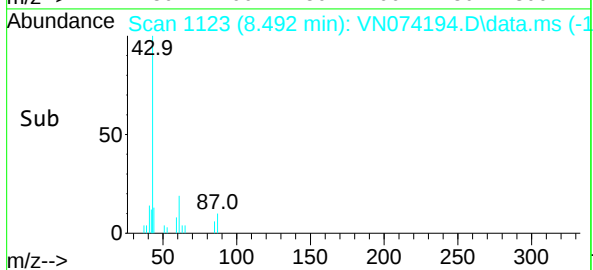
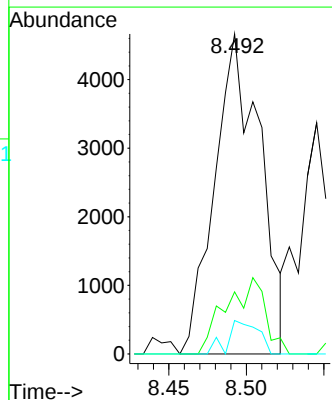
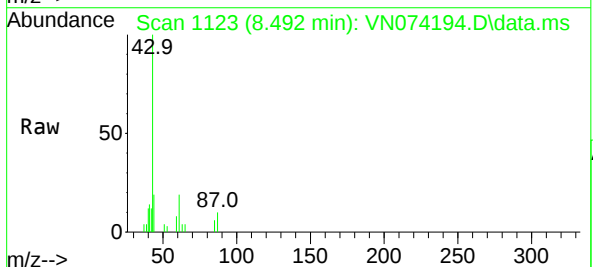
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-PALM-SP-01

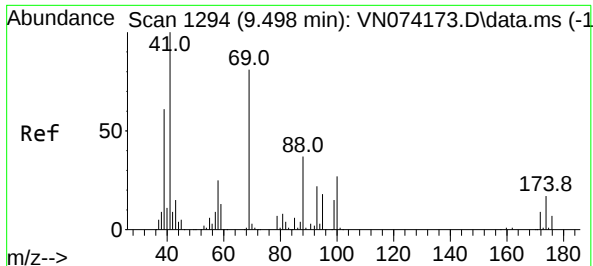
Tgt Ion:117 Resp: 18253  
Ion Ratio Lower Upper  
117 100  
119 11.6 75.8 113.8#  
121 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 1.253 ug/l  
RT: 8.492 min Scan# 1123  
Delta R.T. 0.000 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion: 43 Resp: 9546  
Ion Ratio Lower Upper  
43 100  
61 20.6 21.9 32.9#  
87 6.9 12.0 18.0#

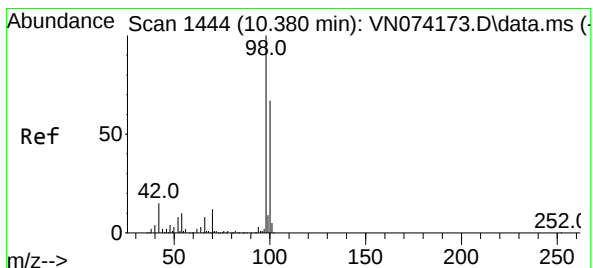
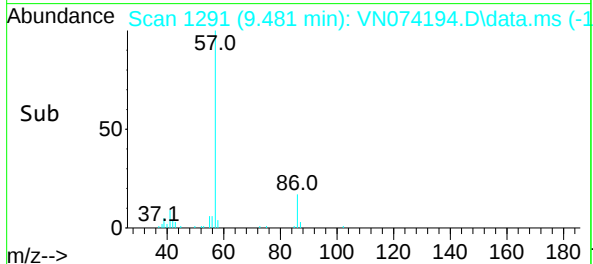
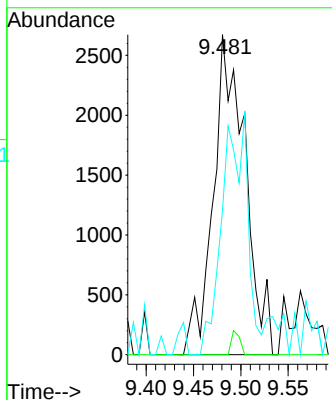
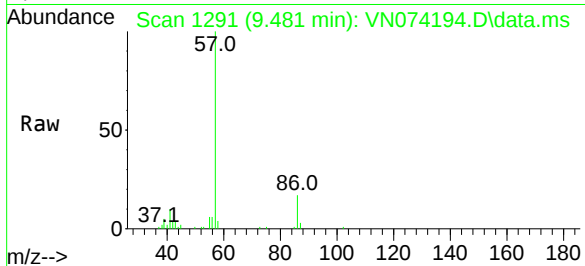




#48  
Methyl methacrylate  
Concen: 1.730 ug/l  
RT: 9.481 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

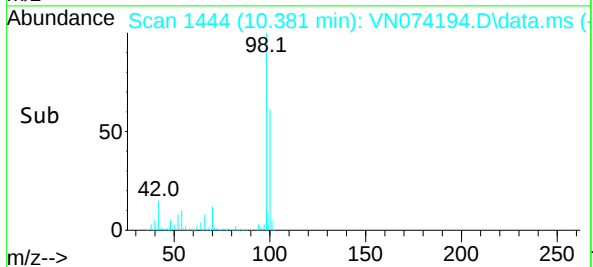
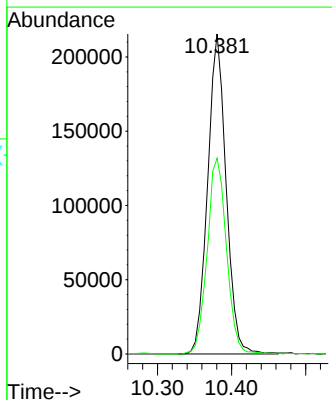
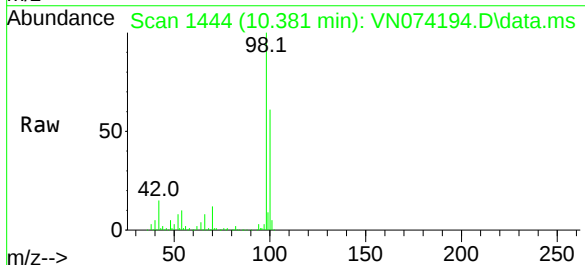
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-PALM-SP-01

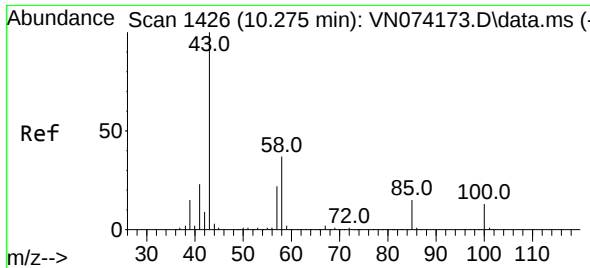
Tgt Ion: 41 Resp: 6262  
Ion Ratio Lower Upper  
41 100  
69 0.0 74.7 112.1#  
39 0.0 45.6 68.4#



#50  
Toluene-d8  
Concen: 45.269 ug/l  
RT: 10.381 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion: 98 Resp: 372338  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.6 78.8

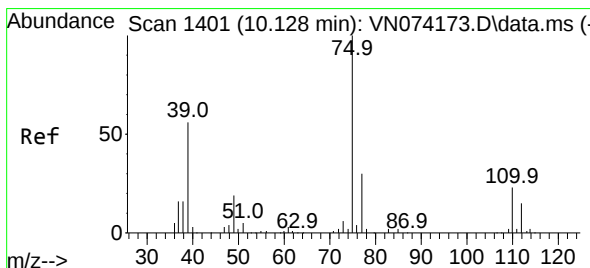
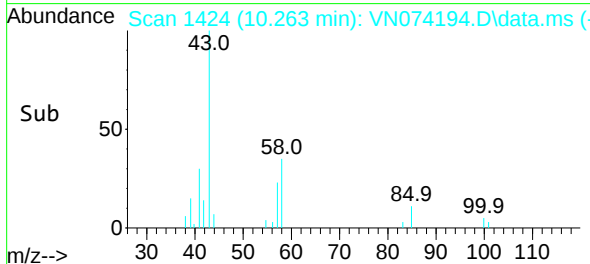
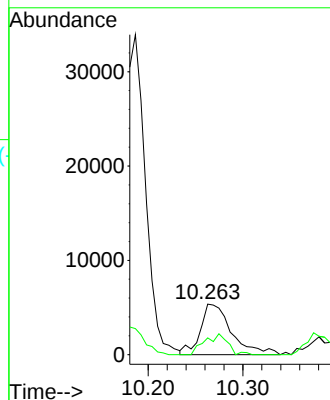
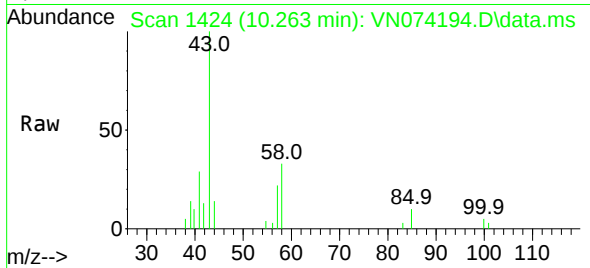




#51  
4-Methyl-2-Pentanone  
Concen: 2.225 ug/l  
RT: 10.263 min Scan# 1410  
Delta R.T. -0.012 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

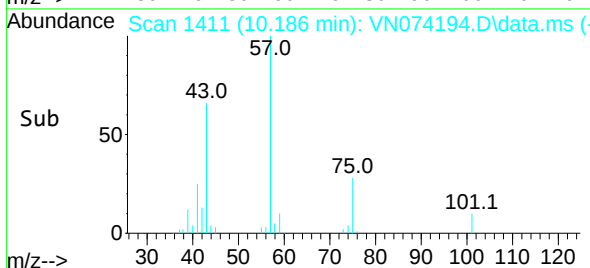
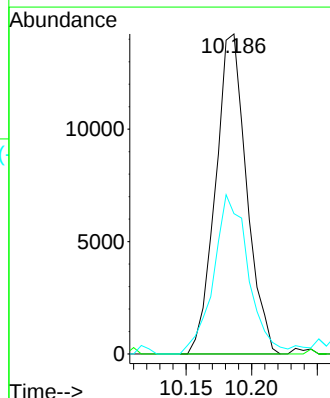
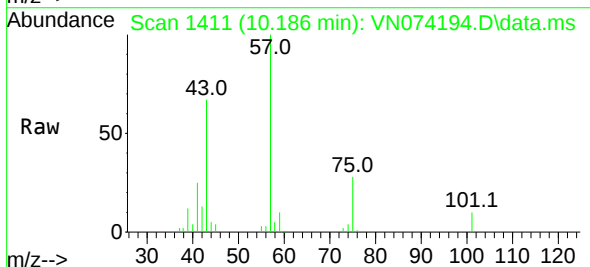
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MSVOA\_N  
ClientSampleId :  
WC-PALM-SP-01

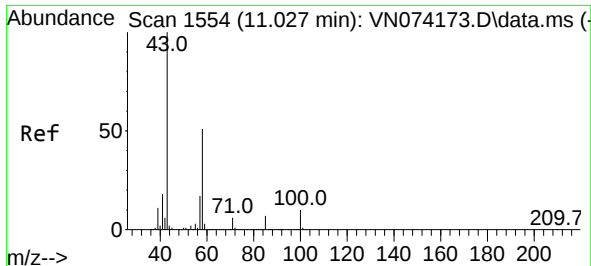
Tgt Ion: 43 Resp: 12303  
Ion Ratio Lower Upper  
43 100  
58 30.7 34.1 51.1#



#54  
cis-1,3-Dichloropropene  
Concen: 5.863 ug/l  
RT: 10.186 min Scan# 1411  
Delta R.T. 0.059 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion: 75 Resp: 23401  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.2 37.8#  
39 43.8 35.7 53.5

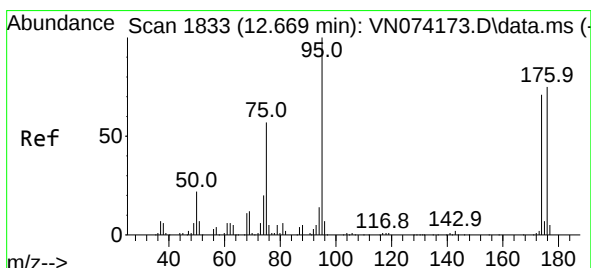
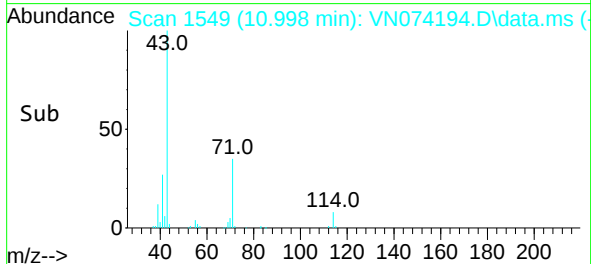
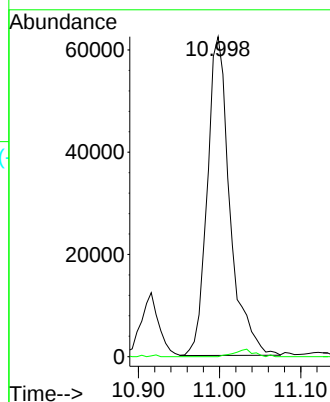
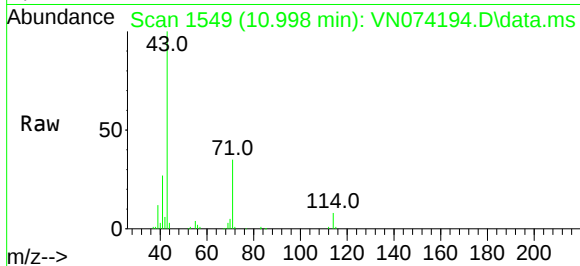




#59  
2-Hexanone  
Concen: 28.789 ug/l  
RT: 10.998 min Scan# 11  
Delta R.T. -0.029 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

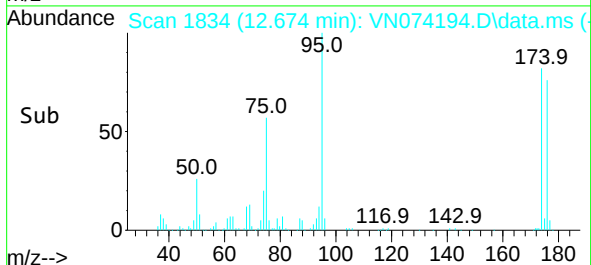
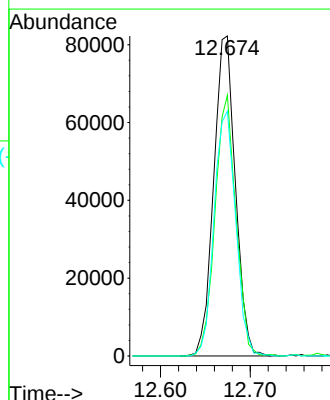
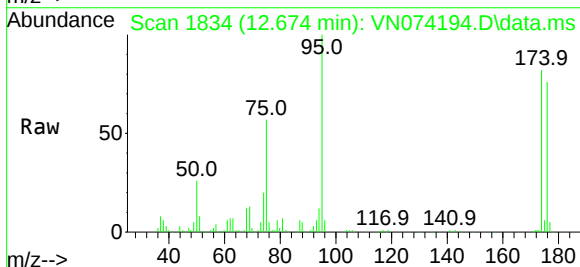
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-PALM-SP-01

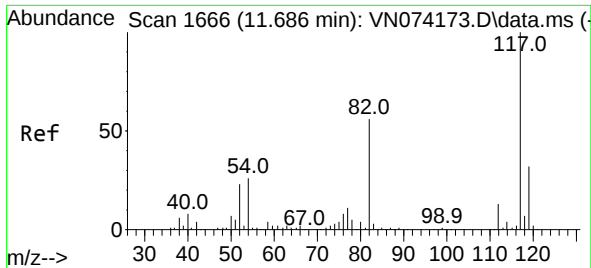
Tgt Ion: 43 Resp: 120802  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.7 89.1#



#62  
4-Bromofluorobenzene  
Concen: 55.097 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.006 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion: 95 Resp: 137813  
Ion Ratio Lower Upper  
95 100  
174 78.4 0.0 167.6  
176 76.3 0.0 163.4

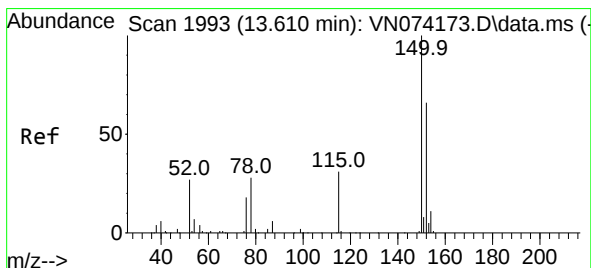
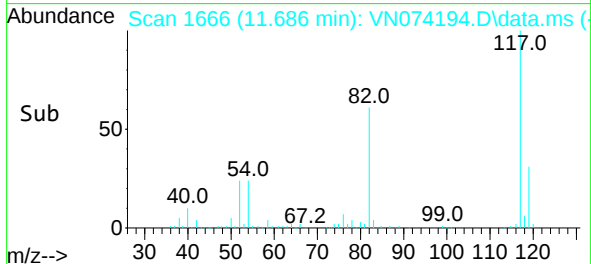
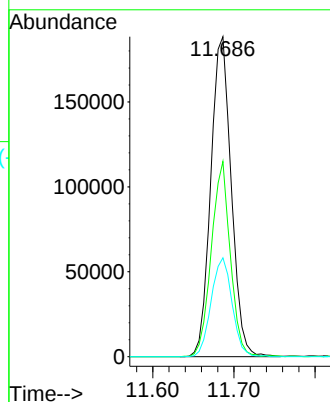
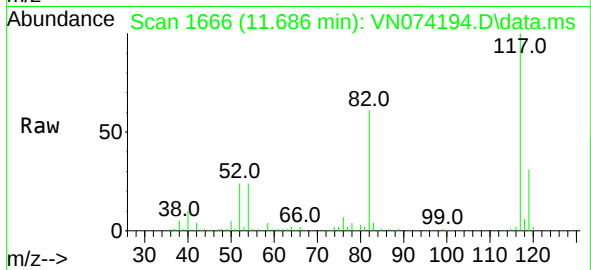




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

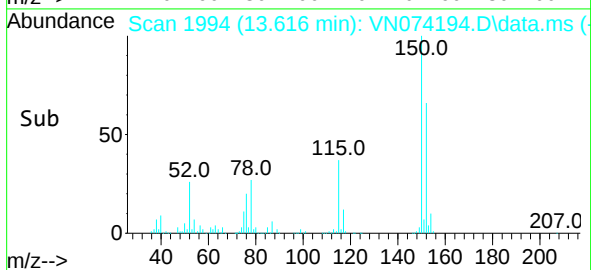
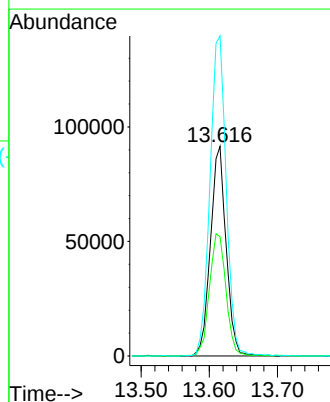
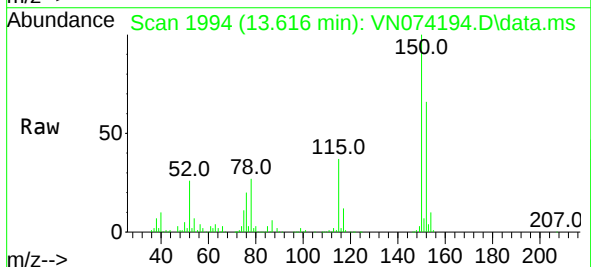
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-PALM-SP-01

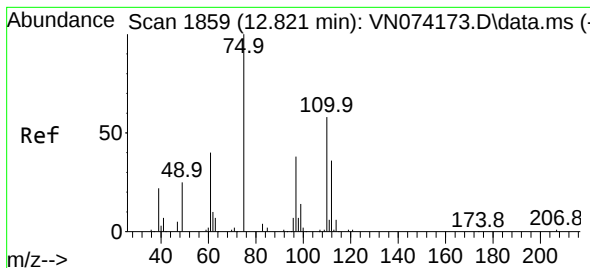
Tgt Ion:117 Resp: 330190  
Ion Ratio Lower Upper  
117 100  
82 61.0 44.2 66.2  
119 30.9 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.616 min Scan# 1994  
Delta R.T. 0.006 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

Tgt Ion:152 Resp: 146742  
Ion Ratio Lower Upper  
152 100  
115 61.5 28.9 86.7  
150 158.0 0.0 356.2





#76

1,2,3-Trichloropropane

Concen: 22.405 ug/l

RT: 12.669 min Scan# 1833

Delta R.T. -0.152 min

Lab File: VN074194.D

Acq: 31 Aug 2022 03:25

Instrument :

MSVOA\_N

ClientSampleId :

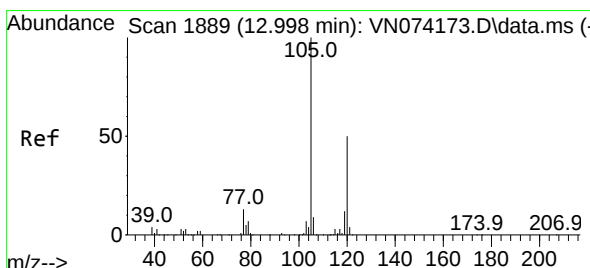
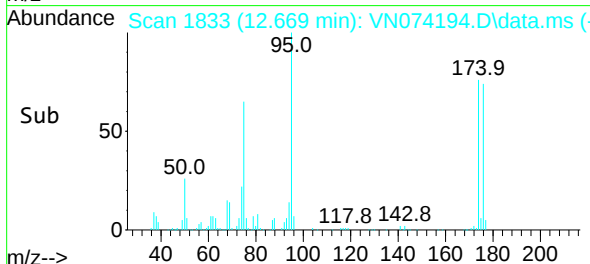
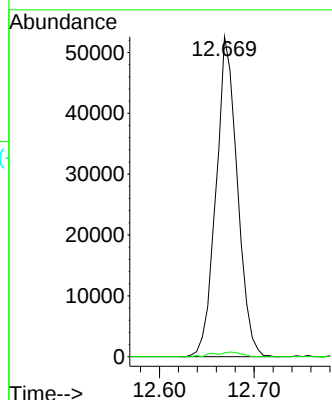
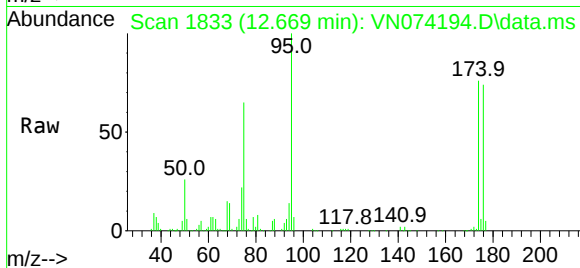
WC-PALM-SP-01

Tgt Ion: 75 Resp: 82472

Ion Ratio Lower Upper

75 100

77 1.2 98.5 295.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.232 ug/l

RT: 12.992 min Scan# 1888

Delta R.T. -0.006 min

Lab File: VN074194.D

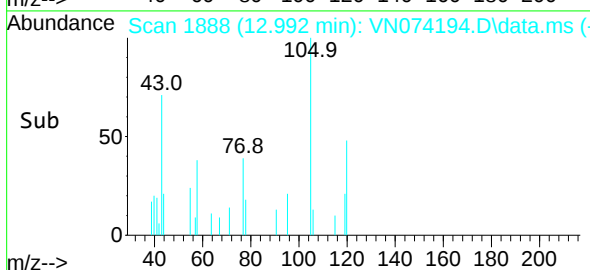
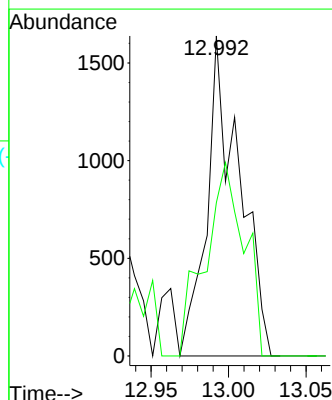
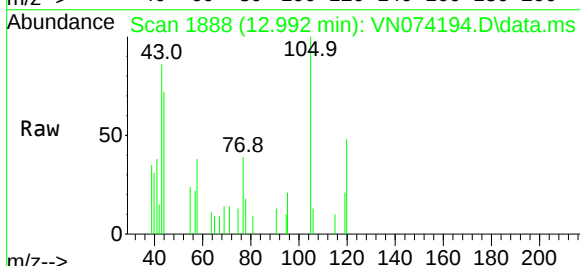
Acq: 31 Aug 2022 03:25

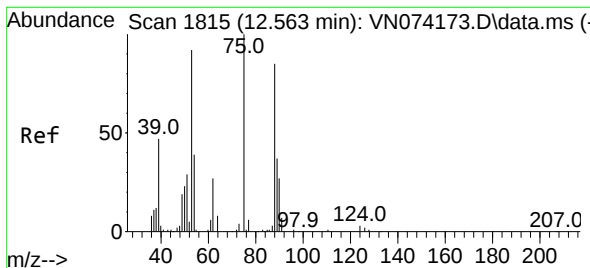
Tgt Ion:105 Resp: 2370

Ion Ratio Lower Upper

105 100

120 73.8 24.9 74.7

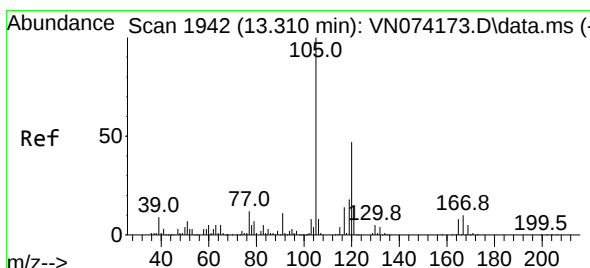
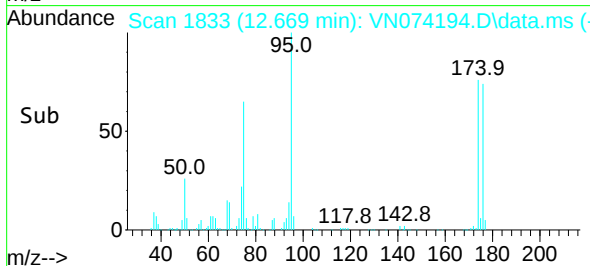
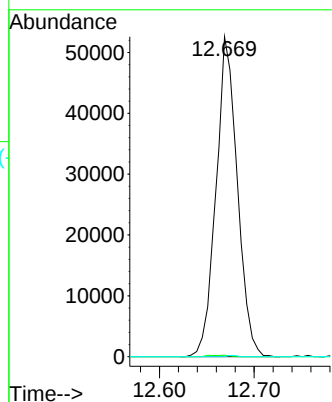
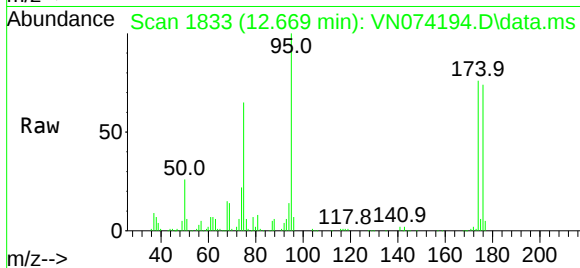




#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.336 ug/l  
RT: 12.669 min Scan# 1815  
Delta R.T. 0.106 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

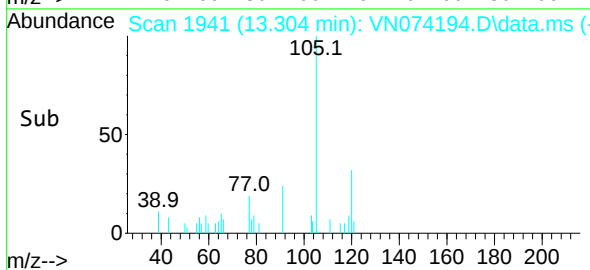
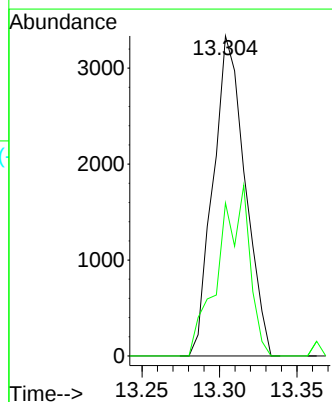
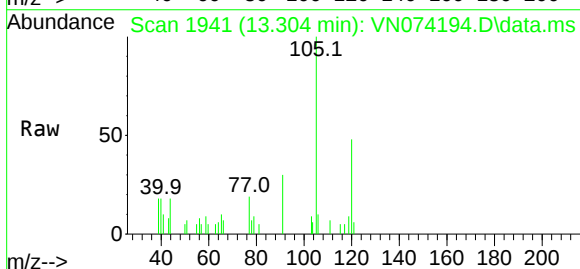
Instrument :  
MSVOA\_N  
ClientSampleId :  
WC-PALM-SP-01

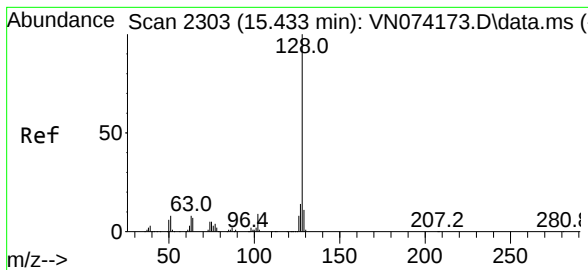
Tgt Ion: 75 Resp: 82472  
Ion Ratio Lower Upper  
75 100  
53 0.4 78.0 117.0#  
89 0.2 37.2 55.8#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.484 ug/l  
RT: 13.304 min Scan# 1941  
Delta R.T. -0.006 min  
Lab File: VN074194.D  
Acq: 31 Aug 2022 03:25

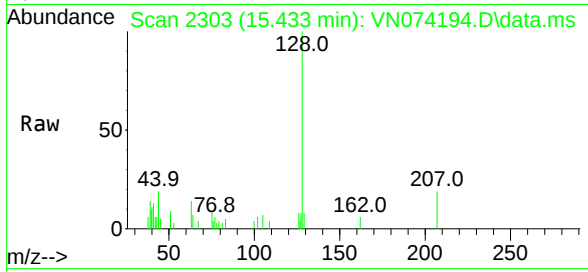
Tgt Ion: 105 Resp: 4770  
Ion Ratio Lower Upper  
105 100  
120 51.6 23.3 69.8





#95  
 Naphthalene  
 Concen: 1.753 ug/l  
 RT: 15.433 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN074194.D  
 Acq: 31 Aug 2022 03:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WC-PALM-SP-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 6864  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.3  | 15.5# |
| 129      | 11.2  | 8.6   | 13.0  |

