

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080823\  
 Data File : VY014979.D  
 Acq On : 08 Aug 2023 12:50  
 Operator : SY/MD  
 Sample : 03913-01  
 Misc : 4.81g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 72-11933

Quant Time: Aug 09 00:59:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080723S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 08 07:44:56 2023  
 Response via : Initial Calibration

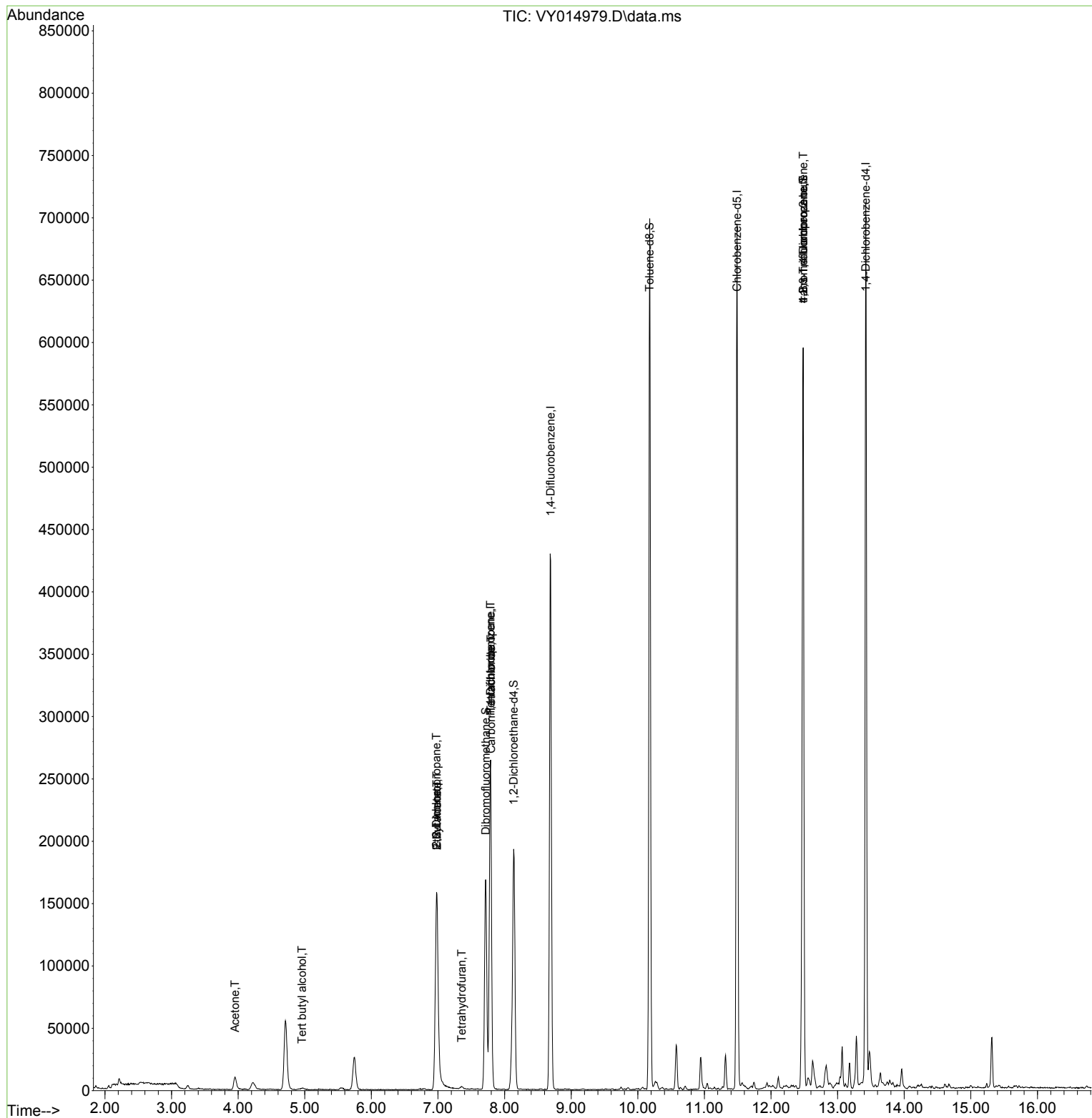
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 209291   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 370620   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 363101   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 176872   | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65    | 141010   | 55.589    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 111.180% |
| 35) Dibromofluoromethane      | 7.716  | 113   | 118487   | 49.994    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 99.980%  |
| 50) Toluene-d8                | 10.179 | 98    | 445483   | 49.383    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 98.760%  |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 167454   | 52.376    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 104.760% |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.906  | 85    | 102      | Below Cal | #      | 43       |
| 5) Bromomethane               | 2.650  | 94    | 460      | Below Cal |        | 88       |
| 11) Tert butyl alcohol        | 4.960  | 59    | 2675     | 4.369     | ug/l # | 94       |
| 16) Acetone                   | 3.954  | 43    | 18671    | 23.604    | ug/l   | 93       |
| 20) Methylene Chloride        | 4.710  | 84    | 42838    | Below Cal |        | 90       |
| 25) 2-Butanone                | 6.984  | 43    | 9258     | 8.171     | ug/l # | 77       |
| 26) 2,2-Dichloropropane       | 6.978  | 77    | 12018    | 3.263     | ug/l # | 54       |
| 29) Tetrahydrofuran           | 7.356  | 42    | 1395     | 2.100     | ug/l # | 84       |
| 31) Cyclohexane               | 7.789  | 56    | 4476     | Below Cal | #      | 1        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 15767    | 5.358     | ug/l # | 51       |
| 37) Ethyl Acetate             | 6.984  | 43    | 9258     | 3.964     | ug/l # | 1        |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 20506    | 6.199     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 90618    | 42.758    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 90618    | 94.196    | ug/l # | 11       |
| -----                         |        |       |          |           |        |          |

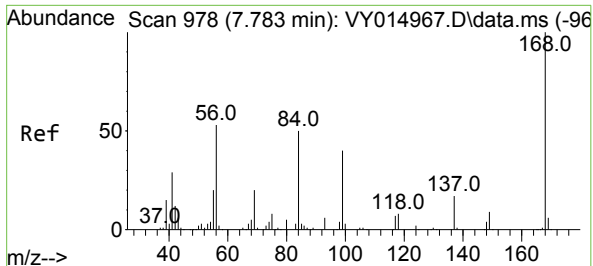
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080823\  
Data File : VY014979.D  
Acq On : 08 Aug 2023 12:50  
Operator : SY/MD  
Sample : 03913-01  
Misc : 4.81g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

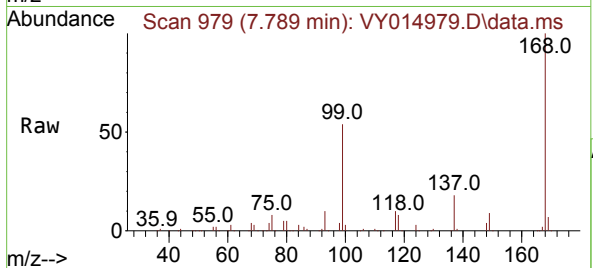
Quant Time: Aug 09 00:59:29 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080723S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 08 07:44:56 2023  
Response via : Initial Calibration



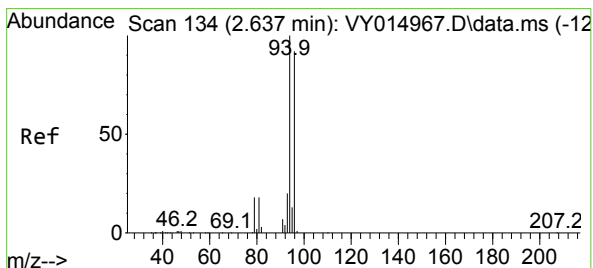
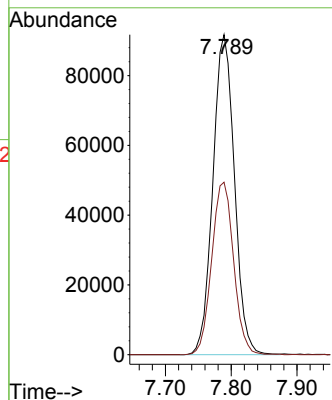
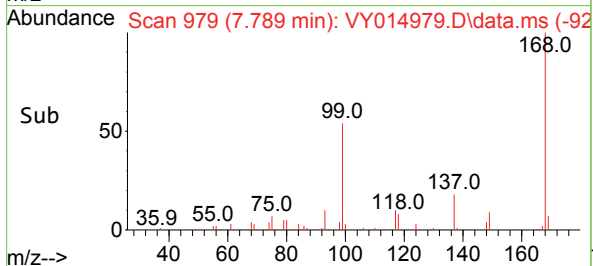


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

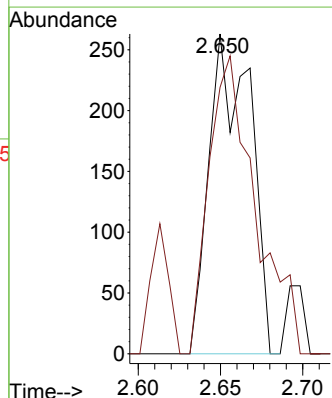
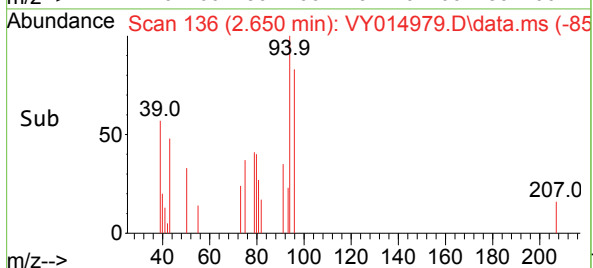
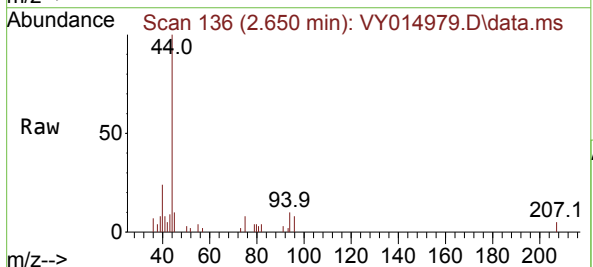


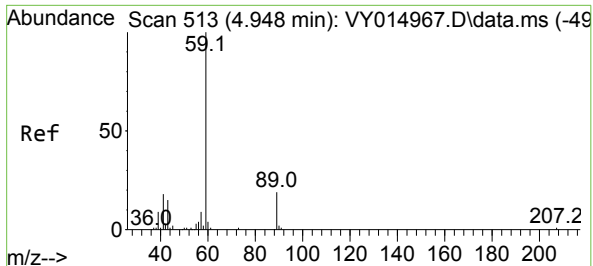
Tgt Ion:168 Resp: 209291  
Ion Ratio Lower Upper  
168 100  
99 53.9 43.4 65.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.650 min Scan# 136  
Delta R.T. 0.013 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Tgt Ion: 94 Resp: 460  
Ion Ratio Lower Upper  
94 100  
96 83.3 75.8 113.6

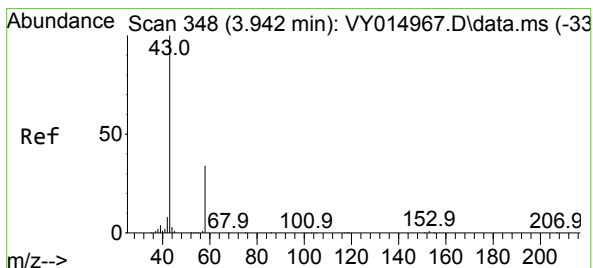
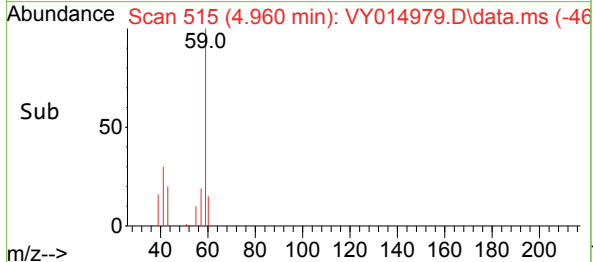
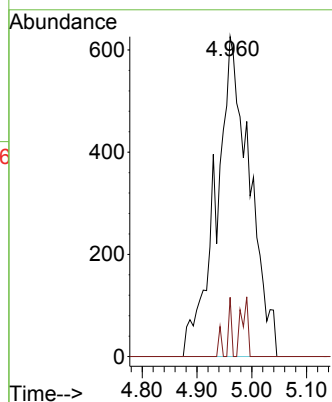
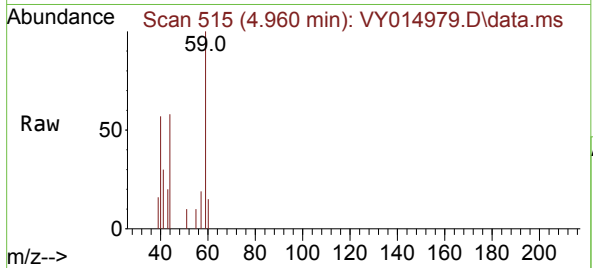




#11  
Tert butyl alcohol  
Concen: 4.369 ug/l  
RT: 4.960 min Scan# 513  
Delta R.T. 0.012 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

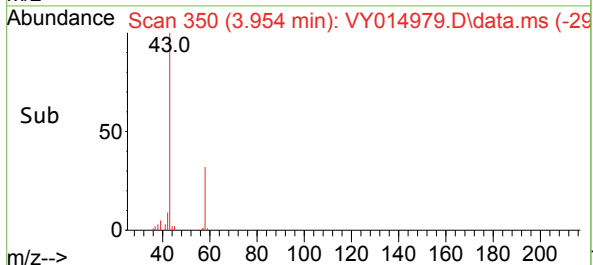
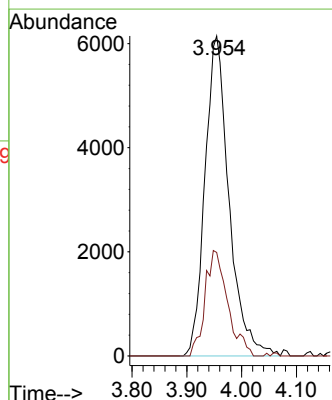
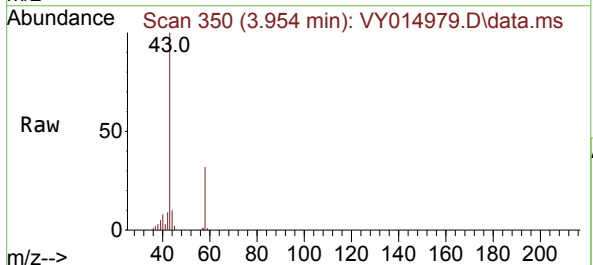
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

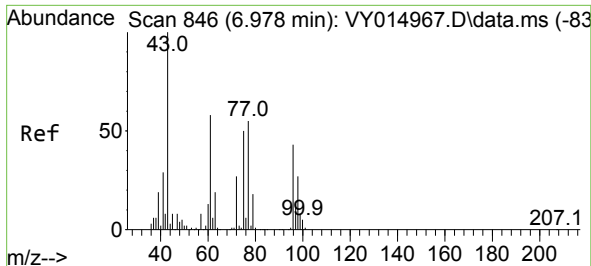
Tgt Ion: 59 Resp: 2675  
Ion Ratio Lower Upper  
59 100  
57 1.6 3.0 4.4#



#16  
Acetone  
Concen: 23.604 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.012 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Tgt Ion: 43 Resp: 18671  
Ion Ratio Lower Upper  
43 100  
58 32.3 22.7 34.1

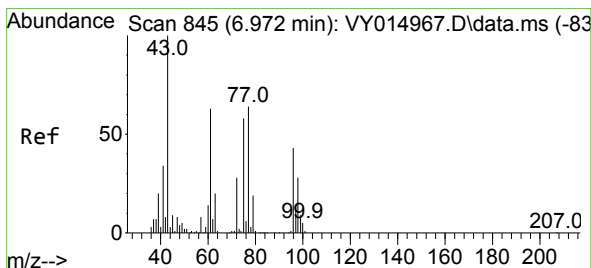
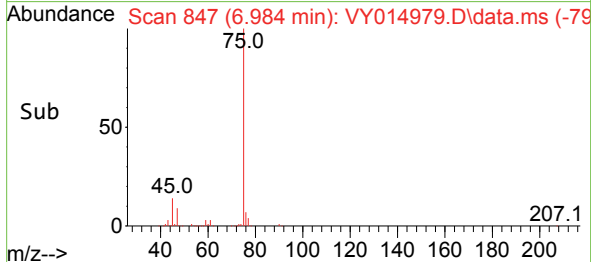
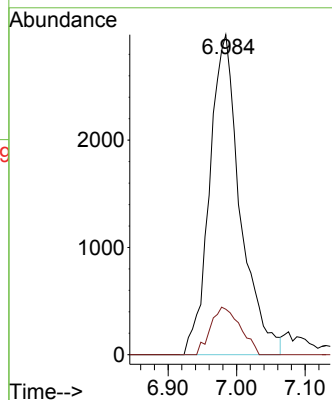
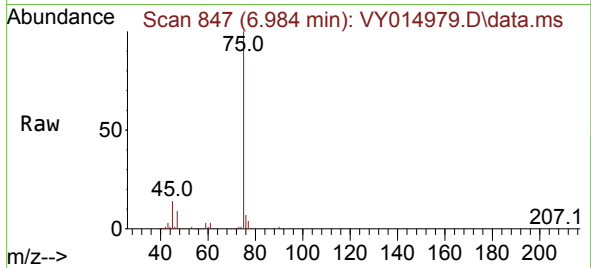




#25  
2-Butanone  
Concen: 8.171 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

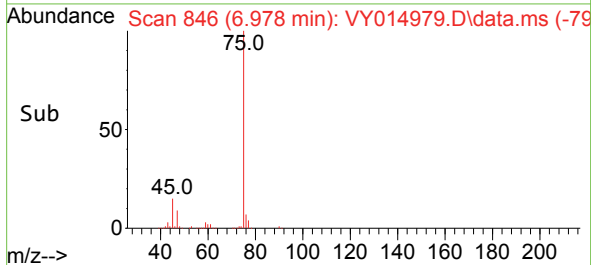
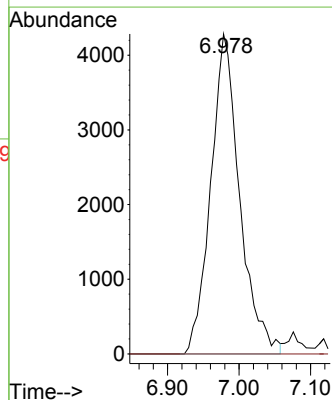
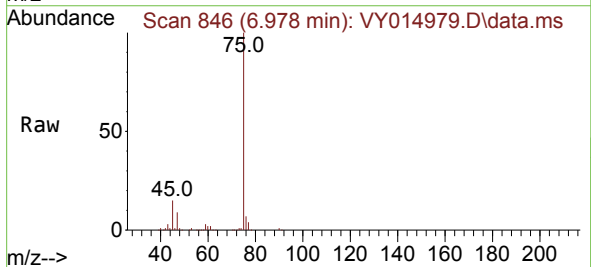
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

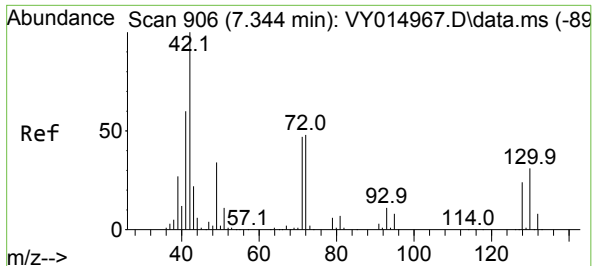
Tgt Ion: 43 Resp: 9258  
Ion Ratio Lower Upper  
43 100  
72 14.2 20.5 30.7#



#26  
2,2-Dichloropropane  
Concen: 3.263 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. 0.006 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Tgt Ion: 77 Resp: 12018  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.9 32.9#





#29

Tetrahydrofuran

Concen: 2.100 ug/l

RT: 7.356 min Scan# 906

Delta R.T. 0.012 min

Lab File: VY014979.D

Acq: 08 Aug 2023 12:50

Instrument :

MSVOA\_Y

ClientSampleId :

72-11933

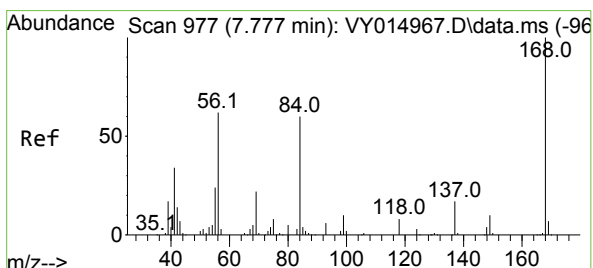
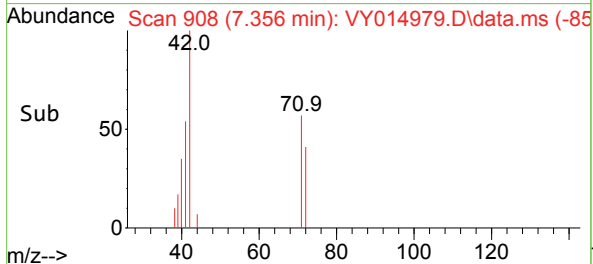
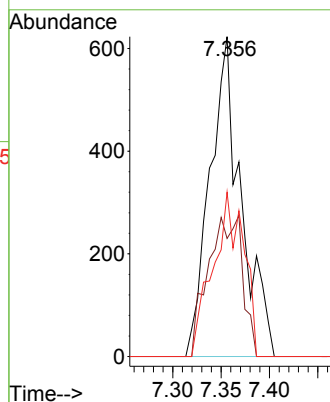
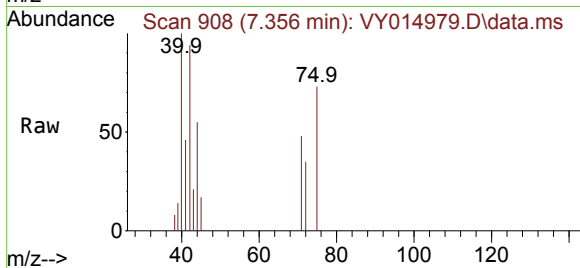
Tgt Ion: 42 Resp: 1395

Ion Ratio Lower Upper

42 100

72 48.2 32.8 49.2

71 50.9 31.0 46.4#



#31

Cyclohexane

Concen: Below Cal

RT: 7.789 min Scan# 979

Delta R.T. 0.012 min

Lab File: VY014979.D

Acq: 08 Aug 2023 12:50

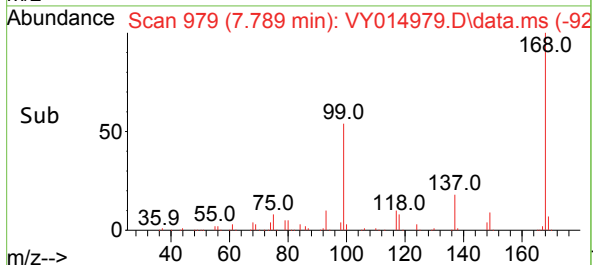
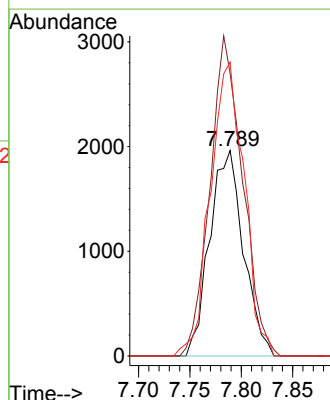
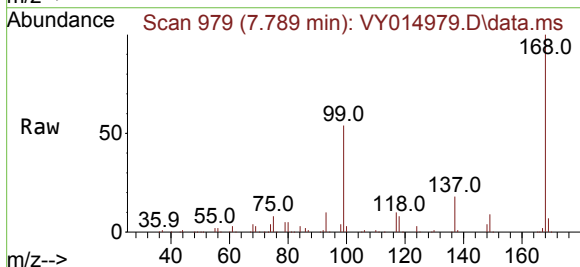
Tgt Ion: 56 Resp: 4476

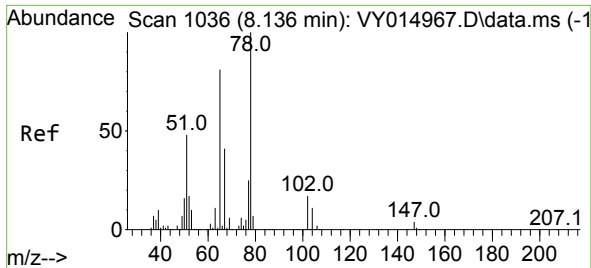
Ion Ratio Lower Upper

56 100

69 137.5 27.8 41.6#

84 143.1 66.4 99.6#

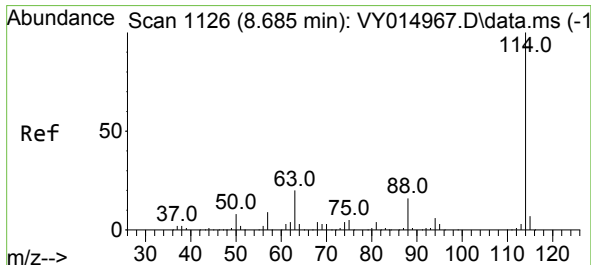
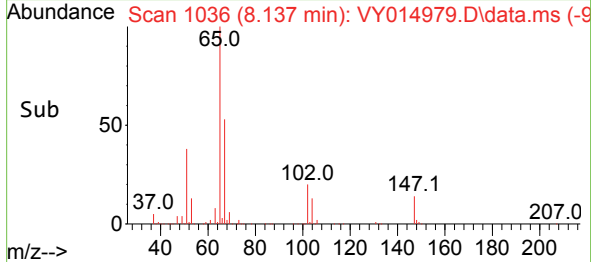
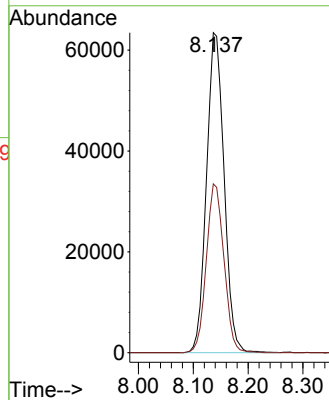
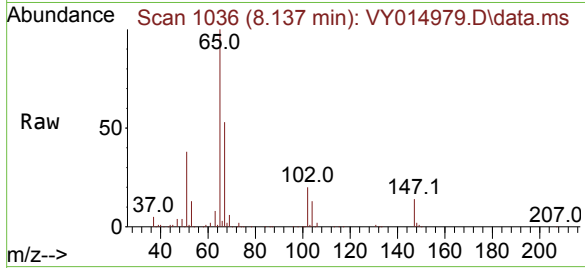




#33  
1,2-Dichloroethane-d4  
Concen: 55.589 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

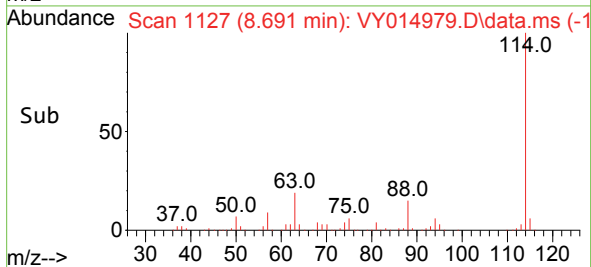
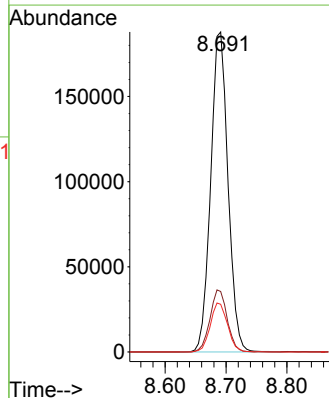
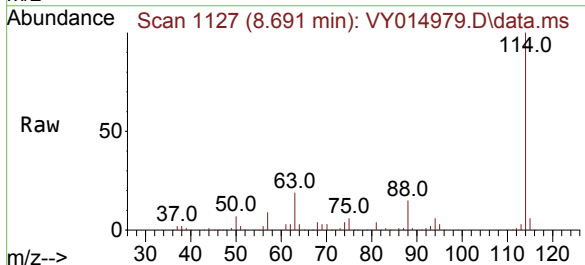
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

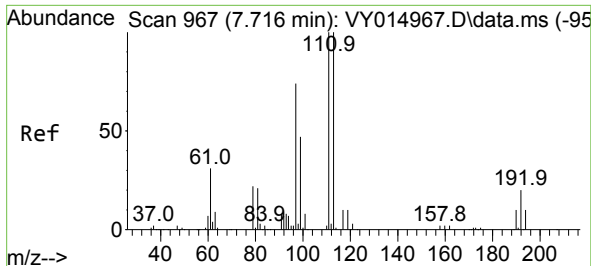
Tgt Ion: 65 Resp: 141010  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Tgt Ion: 114 Resp: 370620  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 42.4  
88 14.9 0.0 30.6

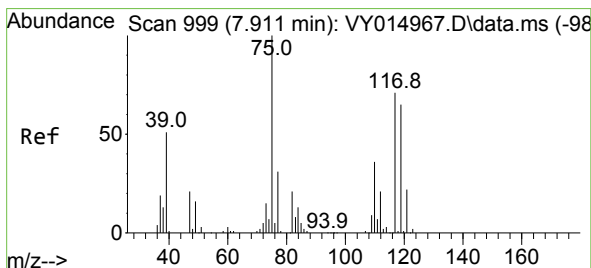
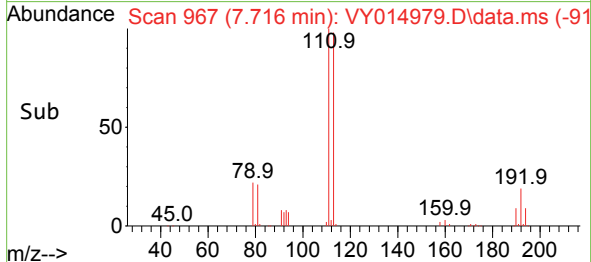
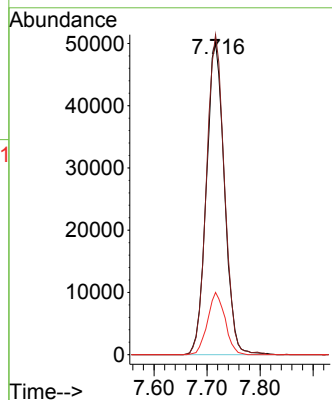
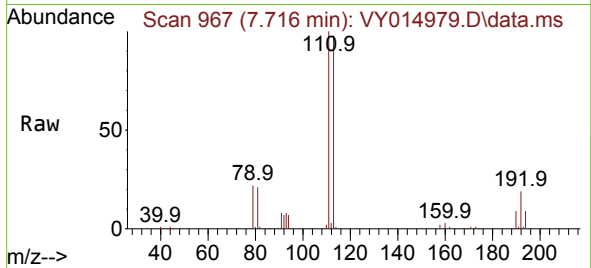




#35  
Dibromofluoromethane  
Concen: 49.994 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

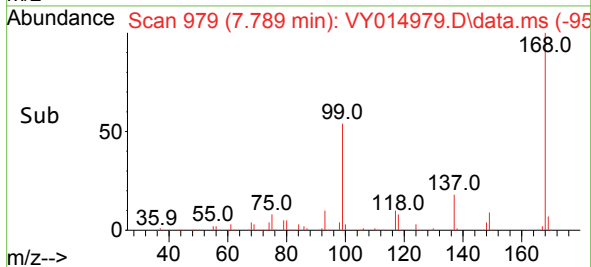
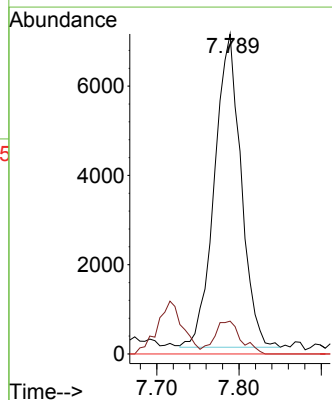
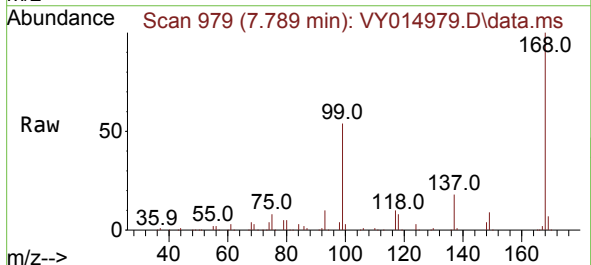
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

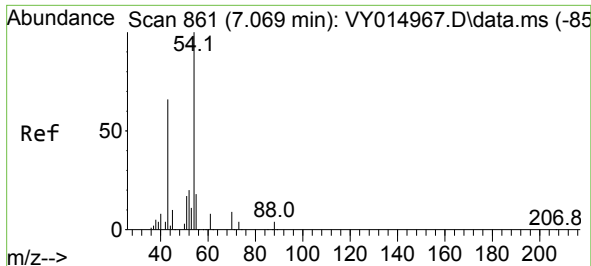
Tgt Ion:113 Resp: 118487  
Ion Ratio Lower Upper  
113 100  
111 101.9 81.3 121.9  
192 19.4 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 5.358 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.122 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Tgt Ion: 75 Resp: 15767  
Ion Ratio Lower Upper  
75 100  
110 10.5 17.8 53.5#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 3.964 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.085 min

Lab File: VY014979.D

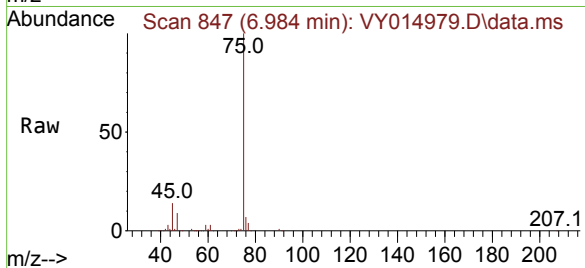
Acq: 08 Aug 2023 12:50

Instrument :

MSVOA\_Y

ClientSampleId :

72-11933



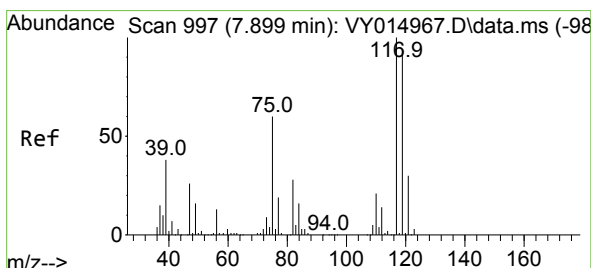
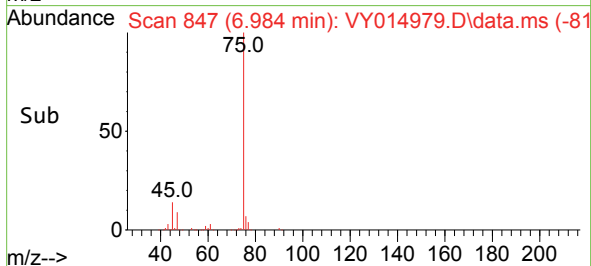
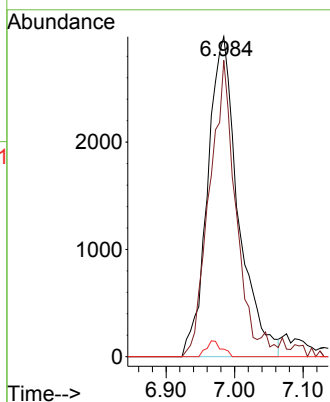
Tgt Ion: 43 Resp: 9258

Ion Ratio Lower Upper

43 100

61 78.0 10.1 15.1#

70 2.4 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 6.199 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.103 min

Lab File: VY014979.D

Acq: 08 Aug 2023 12:50

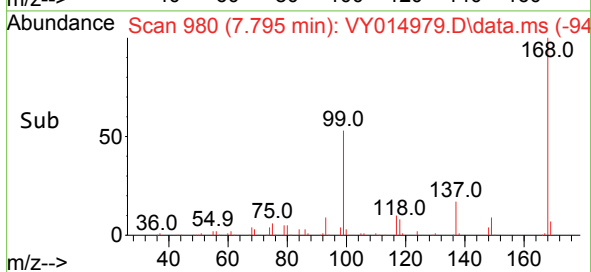
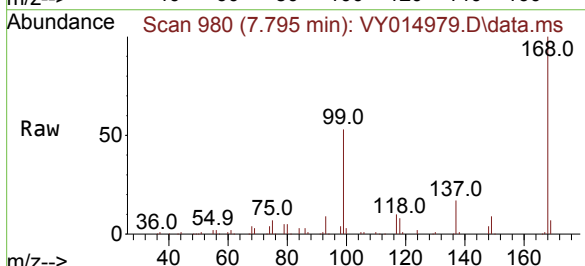
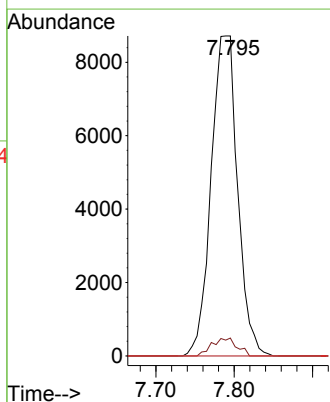
Tgt Ion: 117 Resp: 20506

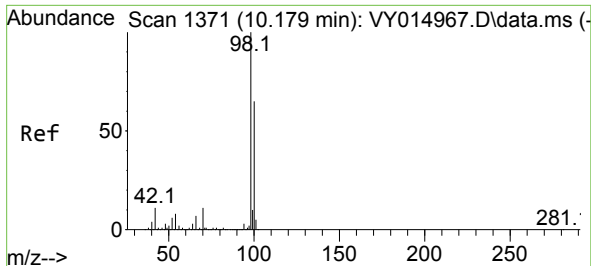
Ion Ratio Lower Upper

117 100

119 5.6 76.4 114.6#

121 0.0 25.8 38.6#

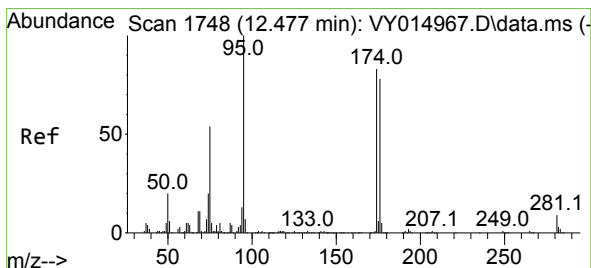
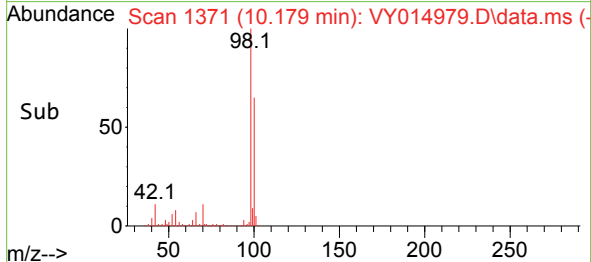
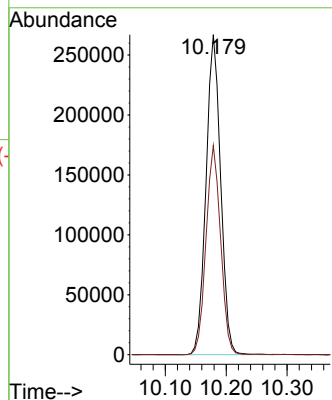
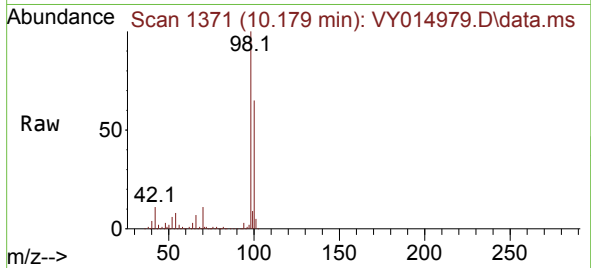




#50  
Toluene-d8  
Concen: 49.383 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

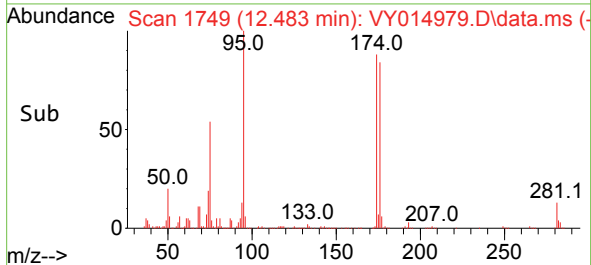
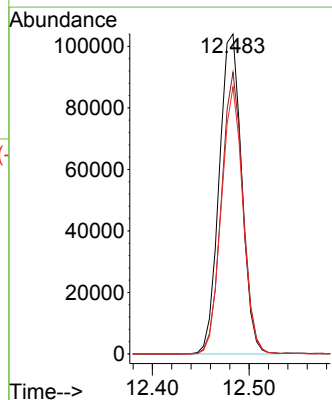
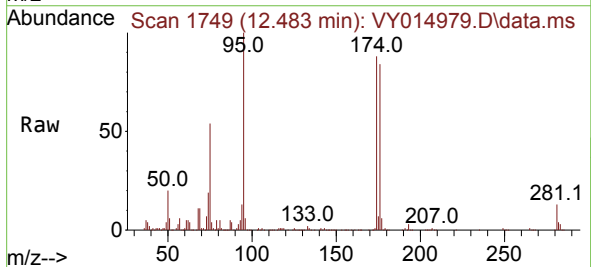
Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

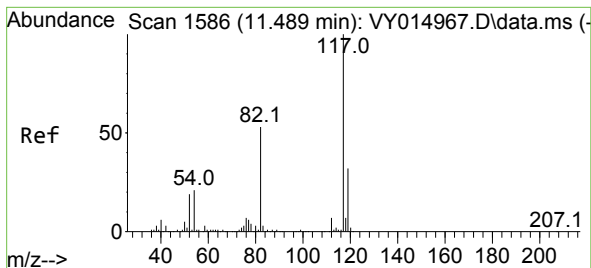
Tgt Ion: 98 Resp: 445483  
Ion Ratio Lower Upper  
98 100  
100 65.1 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 52.376 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Tgt Ion: 95 Resp: 167454  
Ion Ratio Lower Upper  
95 100  
174 84.8 0.0 178.2  
176 80.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014979.D

Acq: 08 Aug 2023 12:50

Instrument :

MSVOA\_Y

ClientSampleId :

72-11933

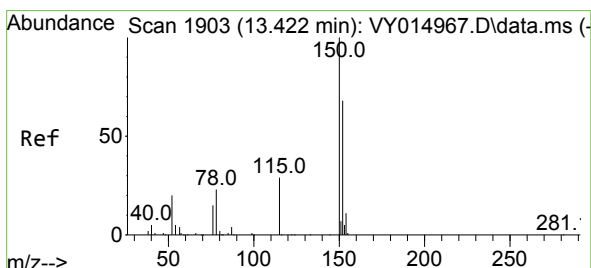
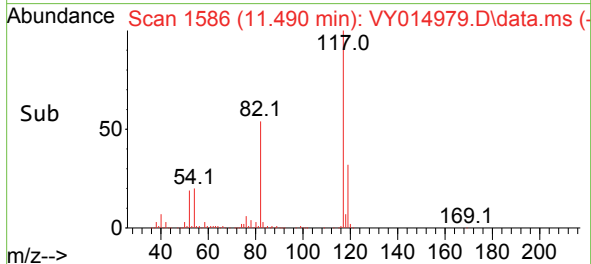
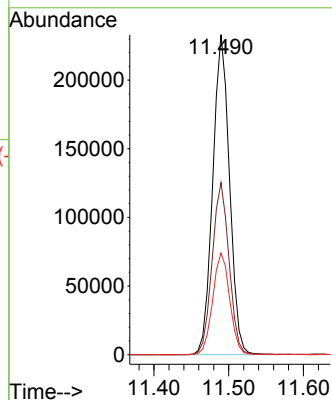
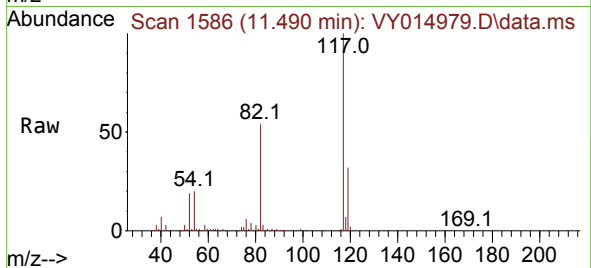
Tgt Ion:117 Resp: 363101

Ion Ratio Lower Upper

117 100

82 53.8 43.4 65.0

119 31.7 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY014979.D

Acq: 08 Aug 2023 12:50

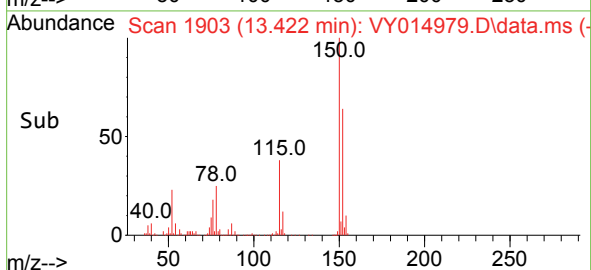
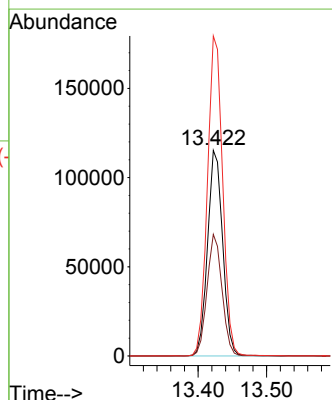
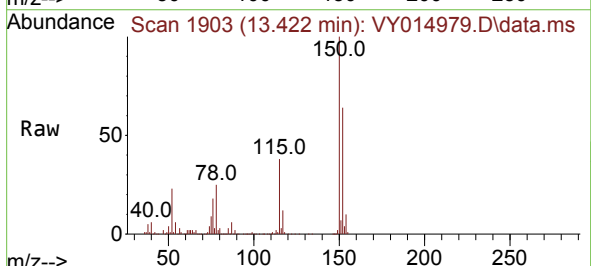
Tgt Ion:152 Resp: 176872

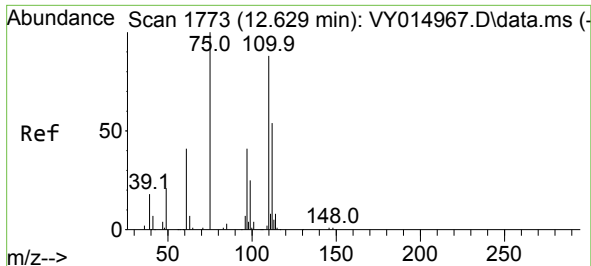
Ion Ratio Lower Upper

152 100

115 58.8 28.8 86.5

150 156.5 0.0 348.8

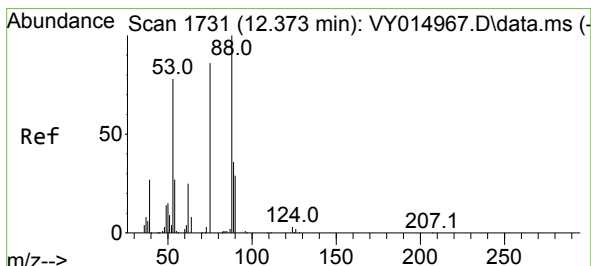
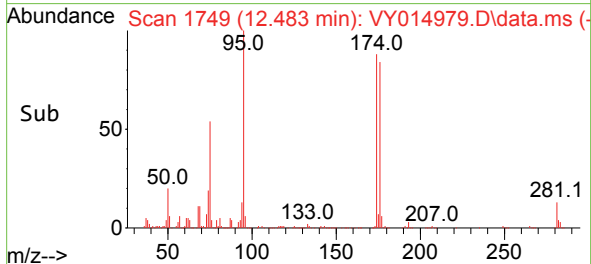
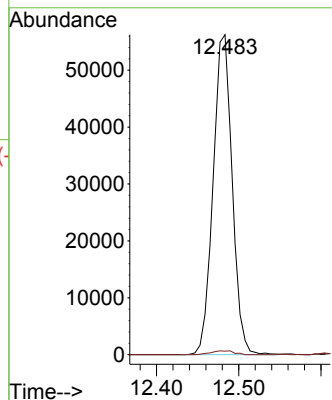
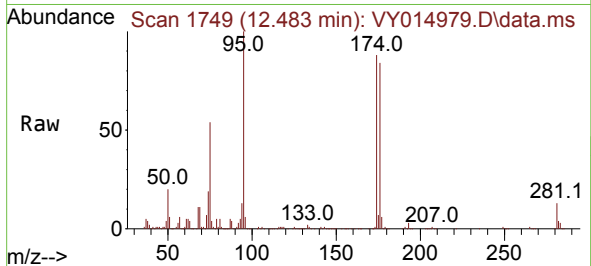




#76  
1,2,3-Trichloropropane  
Concen: 42.758 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.146 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Instrument :  
MSVOA\_Y  
ClientSampleId :  
72-11933

Tgt Ion: 75 Resp: 90618  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 94.196 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.110 min  
Lab File: VY014979.D  
Acq: 08 Aug 2023 12:50

Tgt Ion: 75 Resp: 90618  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.1 37.4 56.0#

