

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052623\  
 Data File : VY013898.D  
 Acq On : 26 May 2023 17:10  
 Operator : KP/MD  
 Sample : 02945-03  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB17A

Quant Time: May 29 04:34:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 24 05:25:47 2023  
 Response via : Initial Calibration

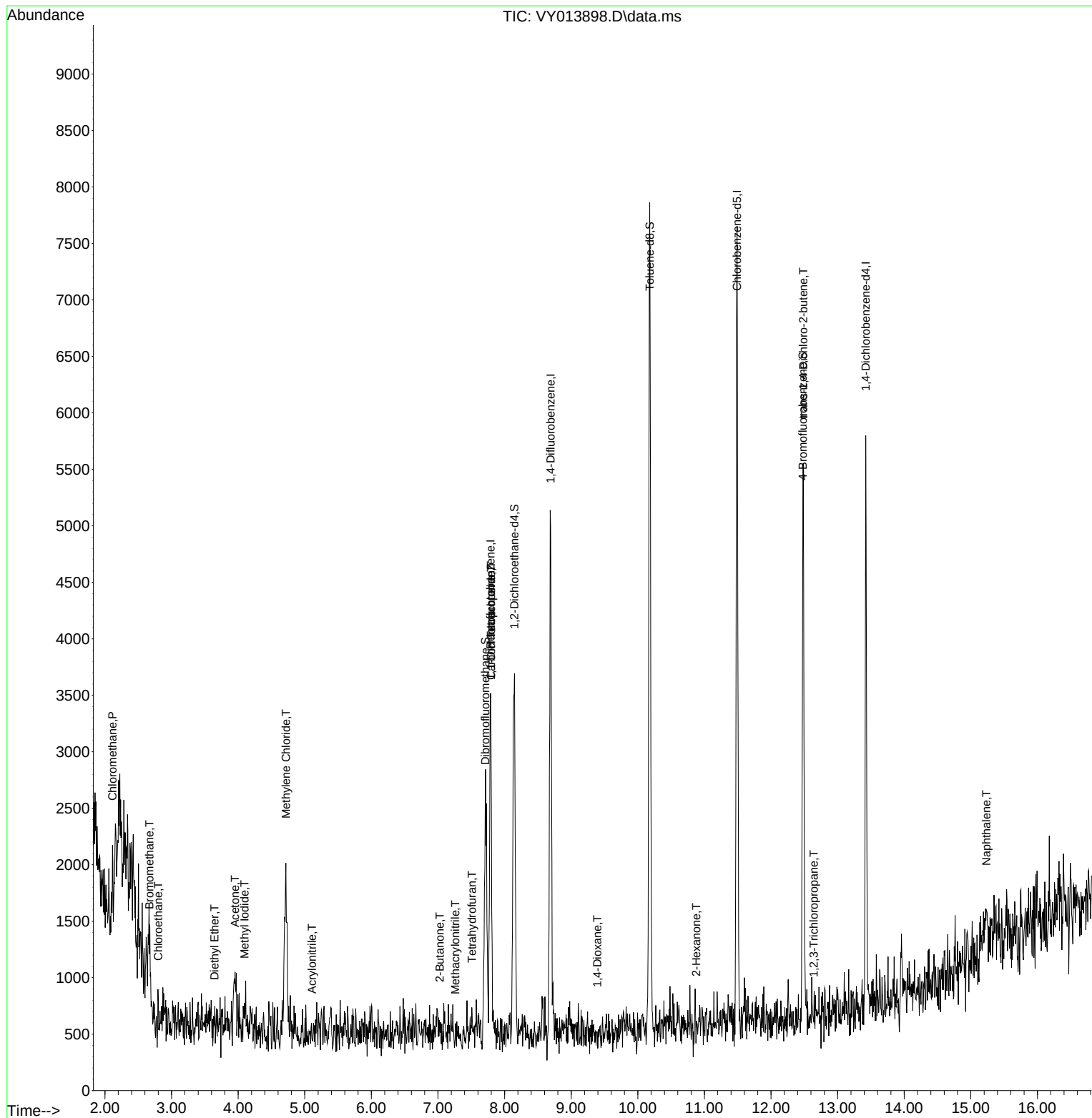
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 2541     | 50.000   | ug/l        | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 4168     | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 4590     | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 1396     | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 3063     | 104.195  | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 208.380%# |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 1817     | 67.503   | ug/l        | -0.01    |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 135.000%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 5485     | 53.615   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 107.220%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 1416     | 41.640   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 83.280%   |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 3) Chloromethane              | 2.113  | 50    | 282      | 9.945    | ug/l        | # 43     |
| 5) Bromomethane               | 2.668  | 94    | 404      | 17.532   | ug/l        | # 47     |
| 6) Chloroethane               | 2.802  | 64    | 22       | 1.164    | ug/l        | # 43     |
| 8) Diethyl Ether              | 3.643  | 74    | 45       | 3.006    | ug/l        | # 1      |
| 10) Methyl Iodide             | 4.094  | 142   | 533      | 16.970   | ug/l        | # 91     |
| 15) Acrylonitrile             | 5.106  | 53    | 22       | 2.866    | ug/l        | # 17     |
| 16) Acetone                   | 3.954  | 43    | 1090     | 124.929  | ug/l        | # 85     |
| 20) Methylene Chloride        | 4.716  | 84    | 923      | 28.757   | ug/l        | 86       |
| 25) 2-Butanone                | 7.027  | 43    | 19       | 1.785    | ug/l        | # 49     |
| 29) Tetrahydrofuran           | 7.508  | 42    | 20       | 3.146    | ug/l        | # 36     |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 72       | 1.756    | ug/l        | # 42     |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 209      | 4.483    | ug/l        | # 13     |
| 41) Methacrylonitrile         | 7.259  | 41    | 31       | 2.272    | ug/l        | # 20     |
| 49) 1,4-Dioxane               | 9.392  | 88    | 19       | 93.578   | ug/l        | # 13     |
| 59) 2-Hexanone                | 10.880 | 43    | 20       | 1.158    | ug/l        | # 28     |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75    | 37       | 2.248    | ug/l        | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 765      | 100.881  | ug/l        | # 10     |
| 95) Naphthalene               | 15.233 | 128   | 202      | 7.631    | ug/l        | # 68     |
| -----                         |        |       |          |          |             |          |

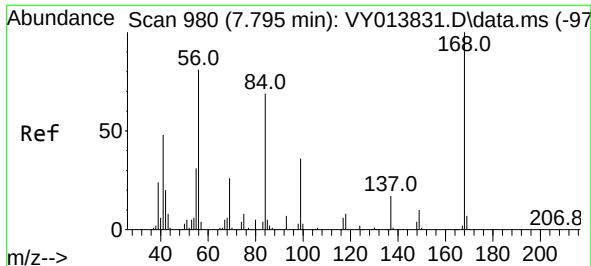
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 24 05:25:47 2023  
Response via : Initial Calibration

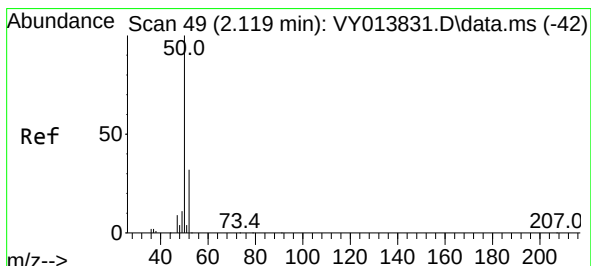
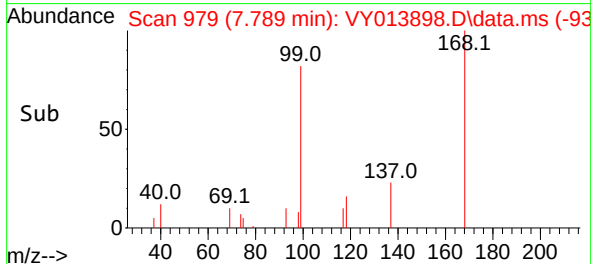
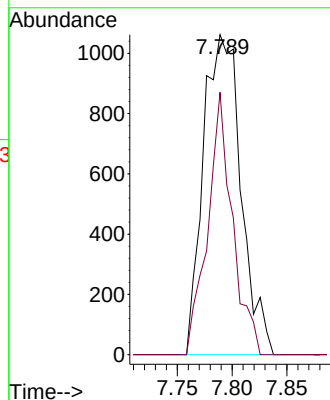
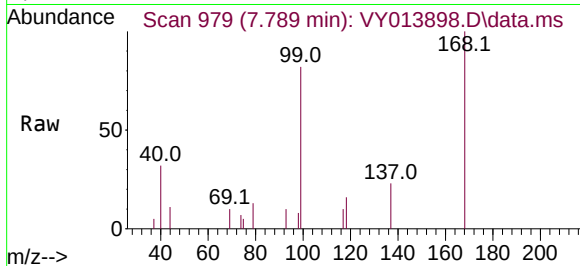




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

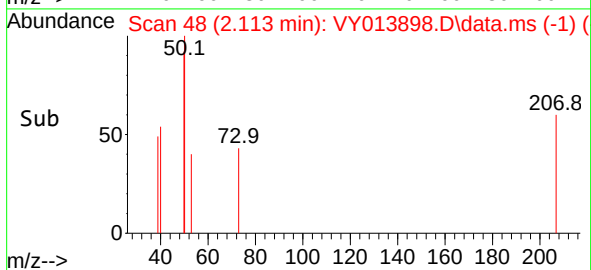
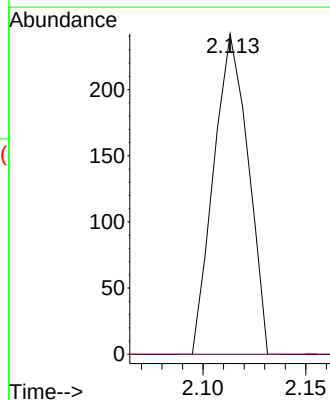
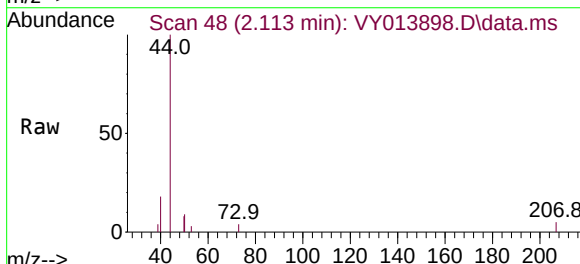
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB17A

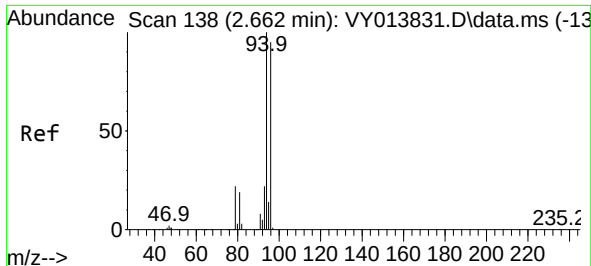
Tgt Ion:168 Resp: 2541  
Ion Ratio Lower Upper  
168 100  
99 82.0 43.4 65.2#



#3  
Chloromethane  
Concen: 9.945 ug/l  
RT: 2.113 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Tgt Ion: 50 Resp: 282  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#





#5

Bromomethane

Concen: 17.532 ug/l

RT: 2.668 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY013898.D

Acq: 26 May 2023 17:10

Instrument :

MSVOA\_Y

ClientSampleId :

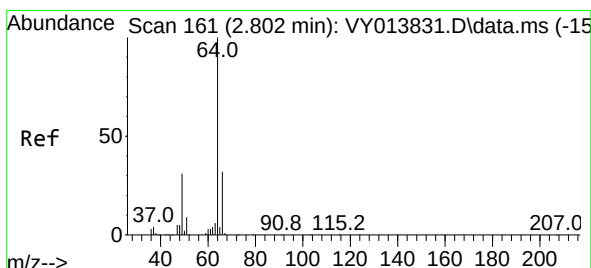
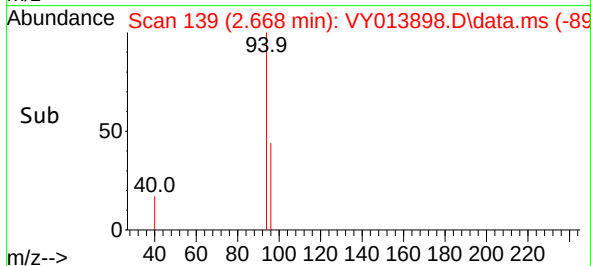
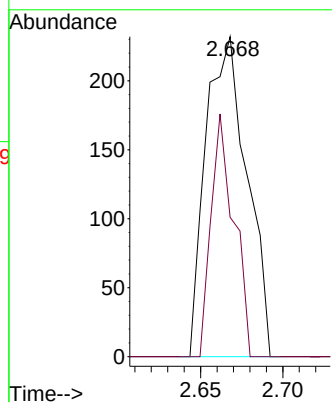
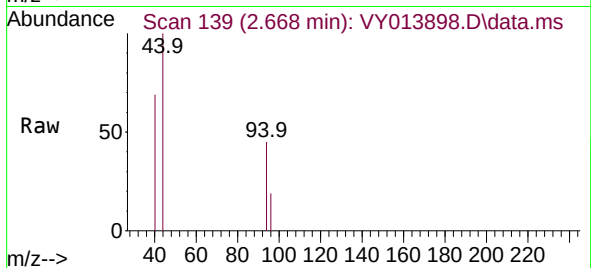
SB17A

Tgt Ion: 94 Resp: 404

Ion Ratio Lower Upper

94 100

96 43.5 76.2 114.2#



#6

Chloroethane

Concen: 1.164 ug/l

RT: 2.802 min Scan# 161

Delta R.T. 0.000 min

Lab File: VY013898.D

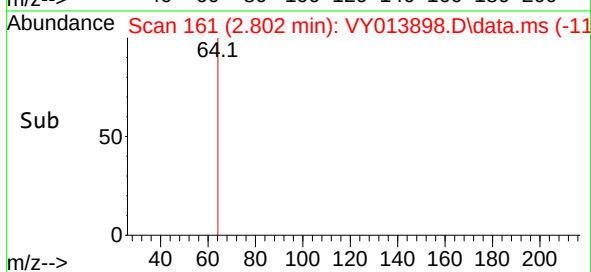
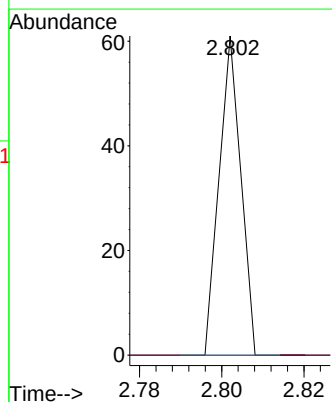
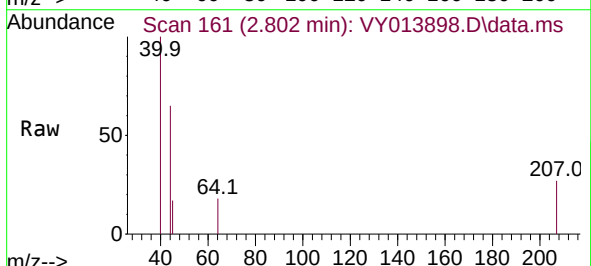
Acq: 26 May 2023 17:10

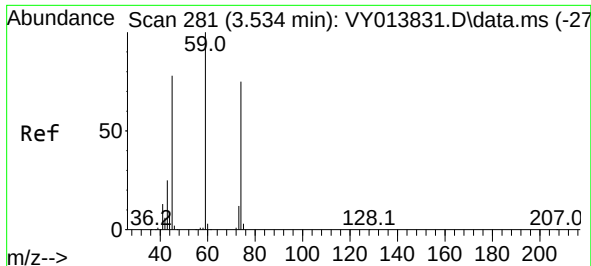
Tgt Ion: 64 Resp: 22

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#

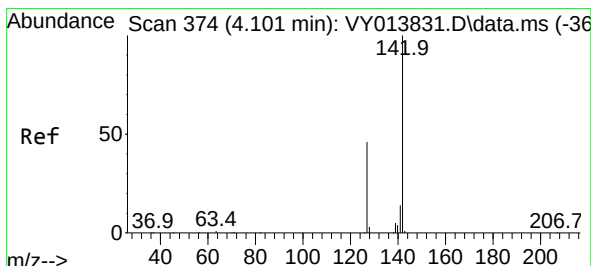
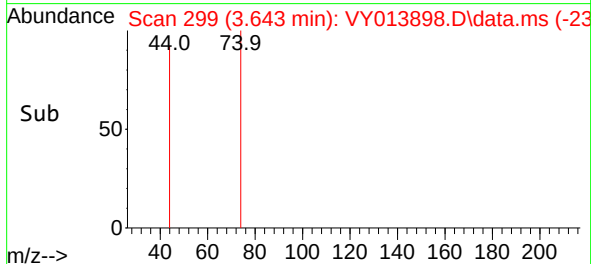
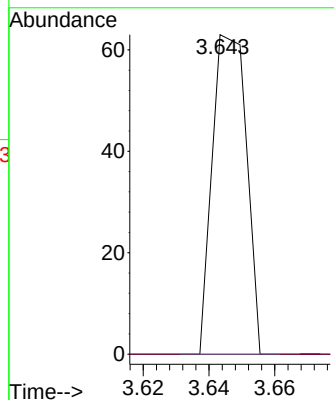
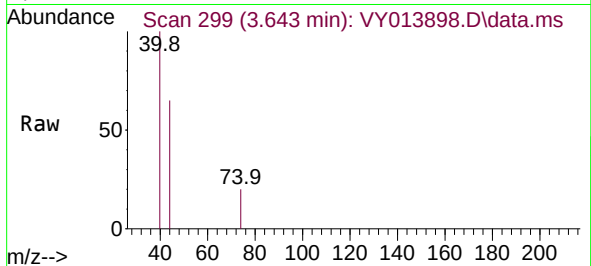




#8  
Diethyl Ether  
Concen: 3.006 ug/l  
RT: 3.643 min Scan# 299  
Delta R.T. 0.110 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

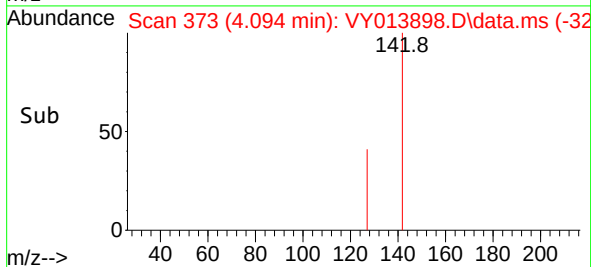
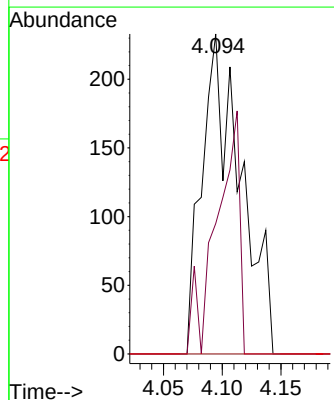
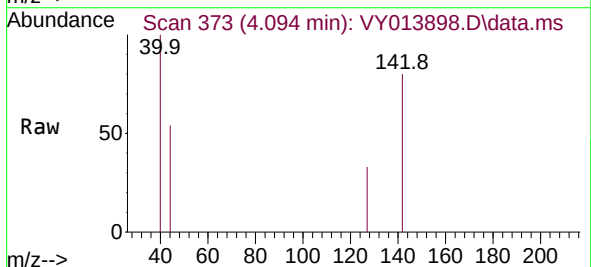
Instrument :  
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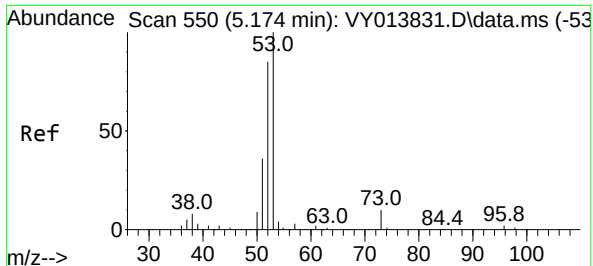
Tgt Ion: 74 Resp: 45  
Ion Ratio Lower Upper  
74 100  
45 0.0 51.8 155.5#



#10  
Methyl Iodide  
Concen: 16.970 ug/l  
RT: 4.094 min Scan# 373  
Delta R.T. -0.006 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Tgt Ion: 142 Resp: 533  
Ion Ratio Lower Upper  
142 100  
127 45.6 37.0 55.4  
141 0.0 11.8 17.6#

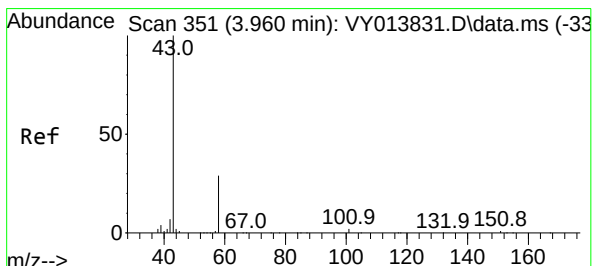
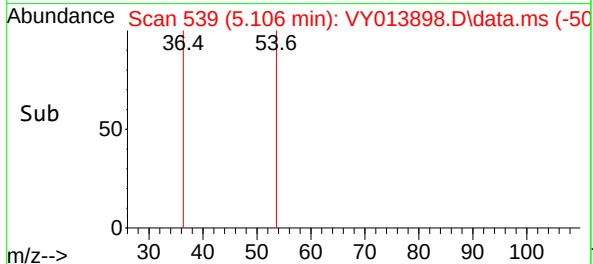
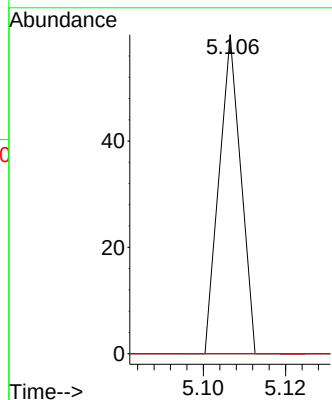
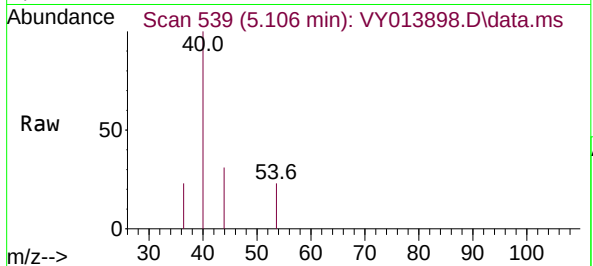




#15  
Acrylonitrile  
Concen: 2.866 ug/l  
RT: 5.106 min Scan# 51  
Delta R.T. -0.067 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

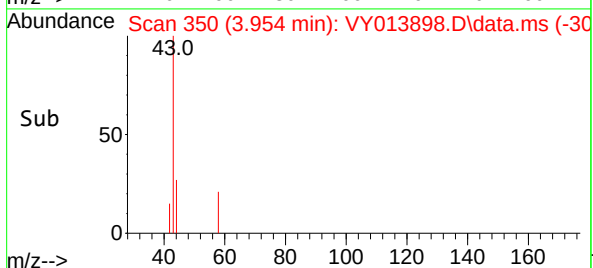
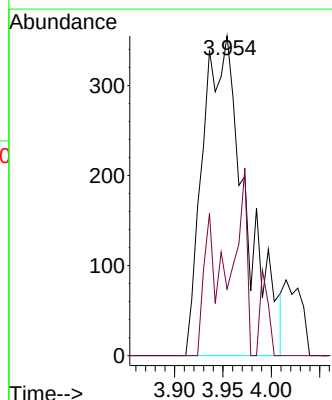
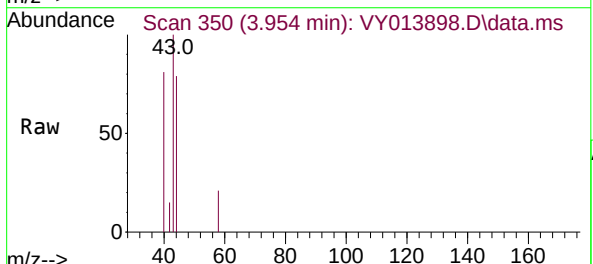
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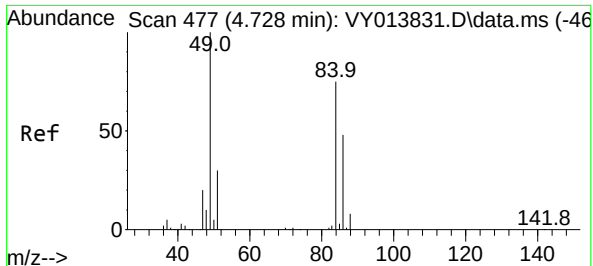
Tgt Ion: 53 Resp: 22  
Ion Ratio Lower Upper  
53 100  
52 0.0 67.2 100.8#  
51 0.0 30.2 45.2#



#16  
Acetone  
Concen: 124.929 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. -0.006 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Tgt Ion: 43 Resp: 1090  
Ion Ratio Lower Upper  
43 100  
58 20.8 23.3 34.9#

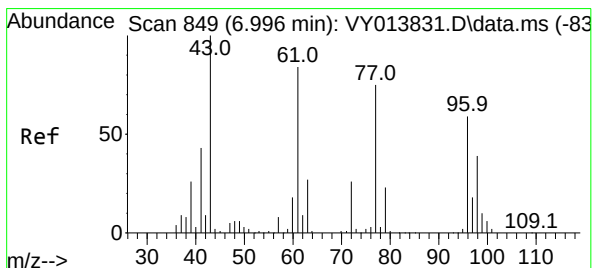
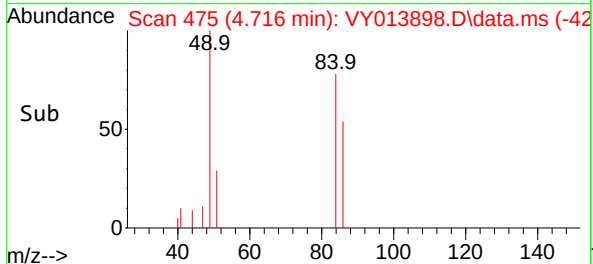
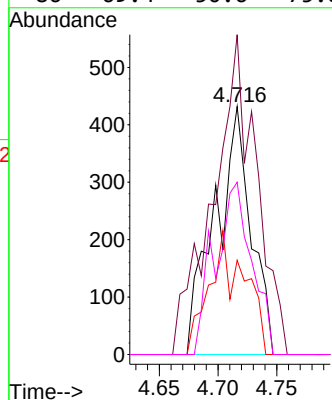
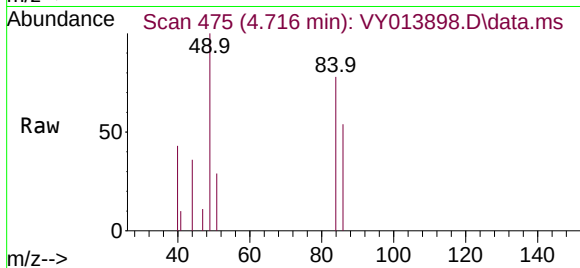




#20  
Methylene Chloride  
Concen: 28.757 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

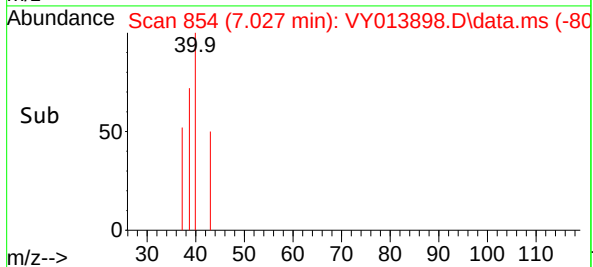
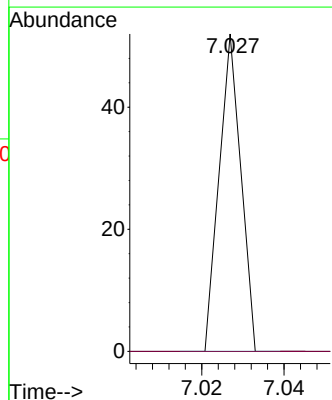
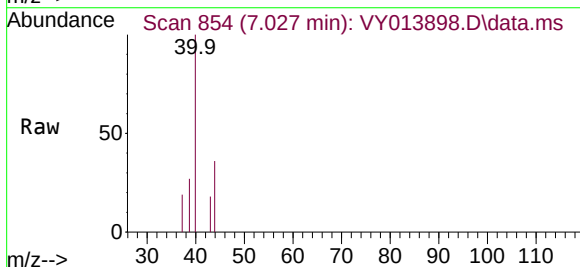
Instrument :  
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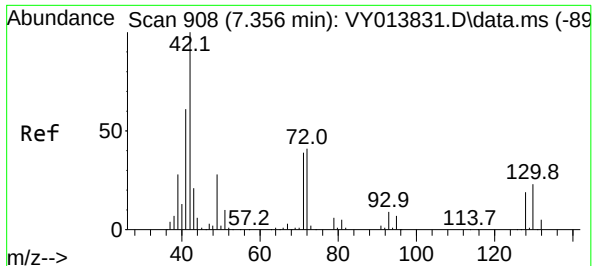
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 923   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.0 | 106.2 | 159.2 |
| 51       | 38.0  | 31.4  | 47.0  |
| 86       | 69.4  | 50.6  | 75.8  |



#25  
2-Butanone  
Concen: 1.785 ug/l  
RT: 7.027 min Scan# 854  
Delta R.T. 0.031 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 19    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 20.5  | 30.7# |





#29

Tetrahydrofuran

Concen: 3.146 ug/l

RT: 7.508 min Scan# 91

Delta R.T. 0.152 min

Lab File: VY013898.D

Acq: 26 May 2023 17:10

Instrument :

MSVOA\_Y

ClientSampleId :

SB17A

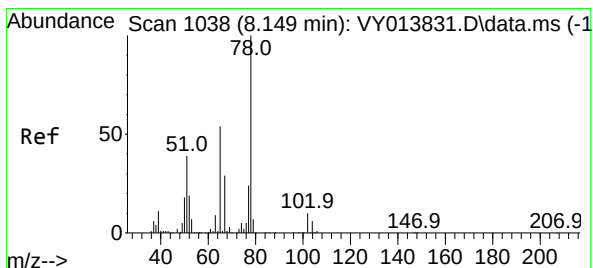
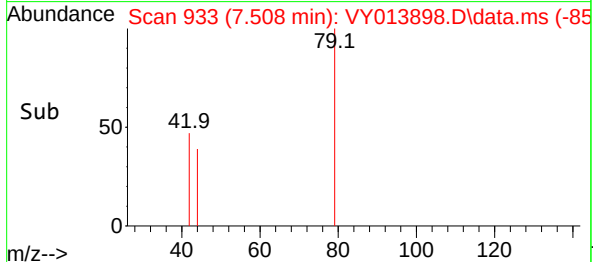
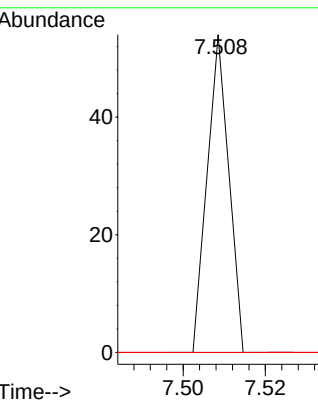
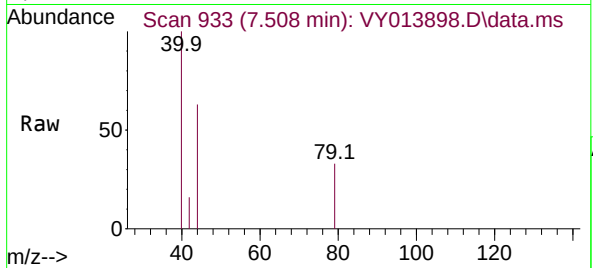
Tgt Ion: 42 Resp: 20

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 0.0 30.6 45.8#



#33

1,2-Dichloroethane-d4

Concen: 104.195 ug/l

RT: 8.149 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VY013898.D

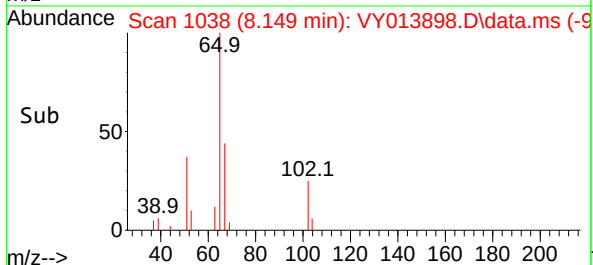
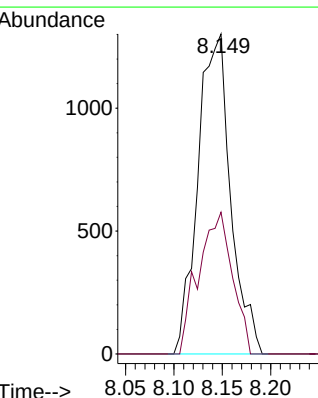
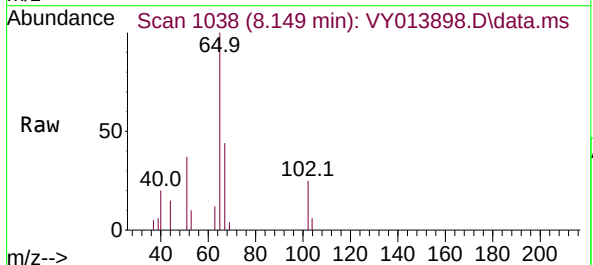
Acq: 26 May 2023 17:10

Tgt Ion: 65 Resp: 3063

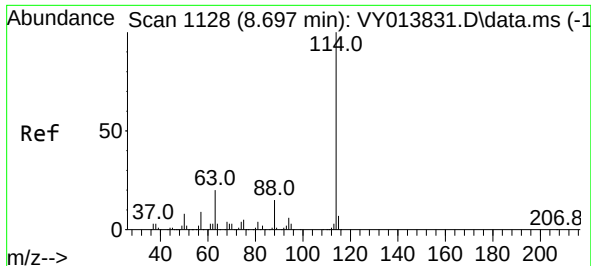
Ion Ratio Lower Upper

65 100

67 46.0 0.0 104.4







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VY013898.D

Acq: 26 May 2023 17:10

Instrument :

MSVOA\_Y

ClientSampleId :

SB17A

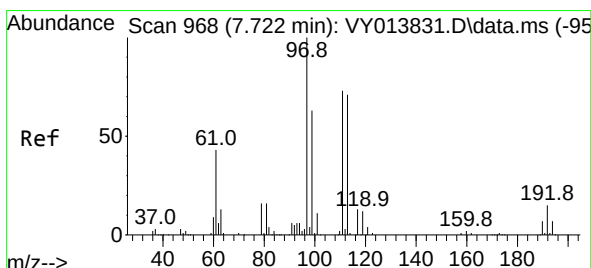
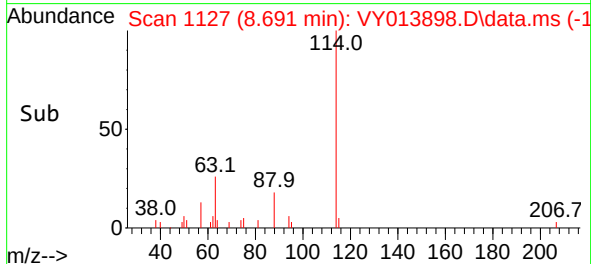
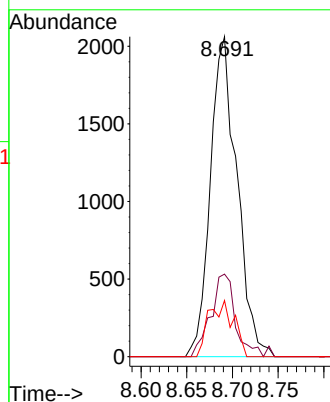
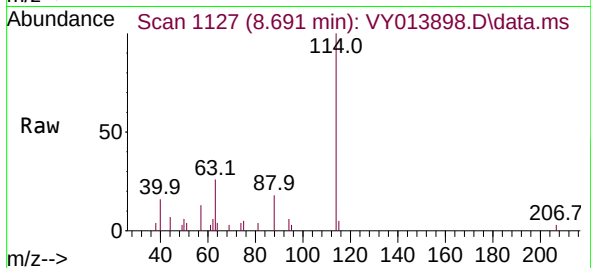
Tgt Ion:114 Resp: 4168

Ion Ratio Lower Upper

114 100

63 25.8 0.0 40.2

88 17.6 0.0 30.0



#35

Dibromofluoromethane

Concen: 67.503 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.012 min

Lab File: VY013898.D

Acq: 26 May 2023 17:10

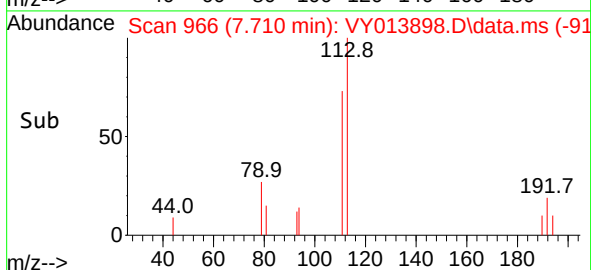
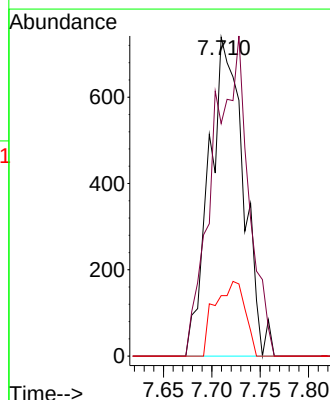
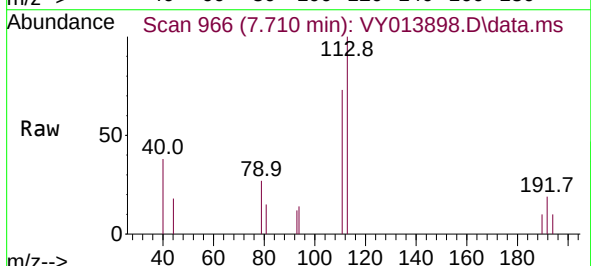
Tgt Ion:113 Resp: 1817

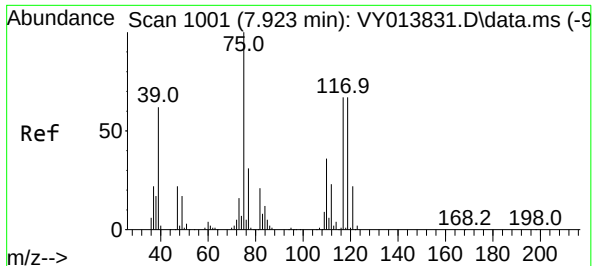
Ion Ratio Lower Upper

113 100

111 104.3 80.4 120.6

192 20.7 16.6 25.0





#36

1,1-Dichloropropene

Concen: 1.756 ug/l

RT: 7.795 min Scan# 9

Delta R.T. -0.128 min

Lab File: VY013898.D

Acq: 26 May 2023 17:10

Instrument :

MSVOA\_Y

ClientSampleId :

SB17A

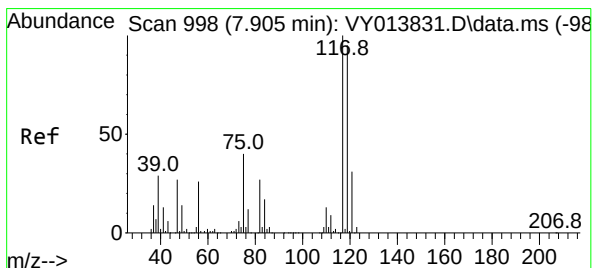
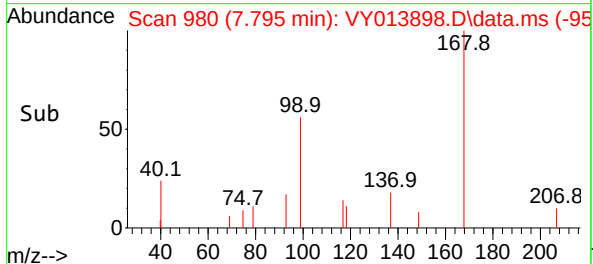
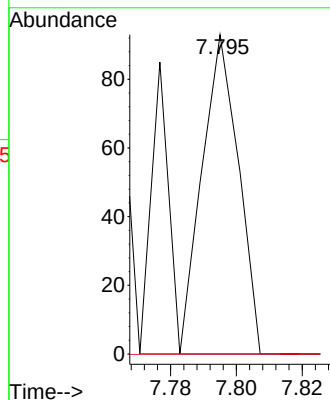
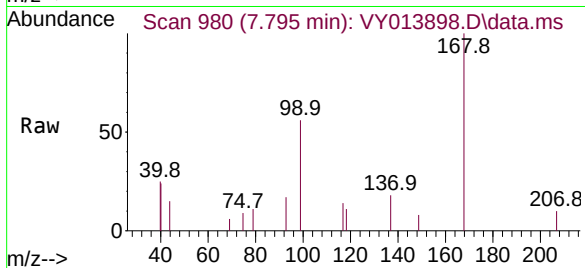
Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

110 0.0 17.5 52.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.483 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.110 min

Lab File: VY013898.D

Acq: 26 May 2023 17:10

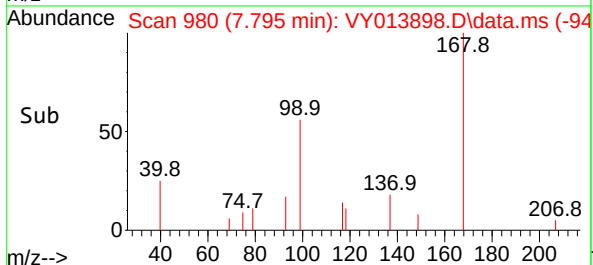
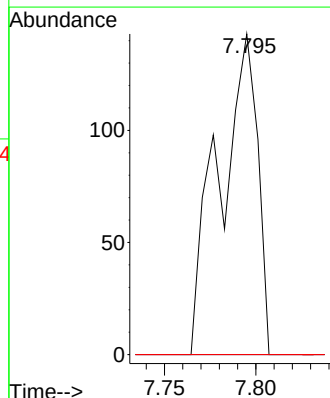
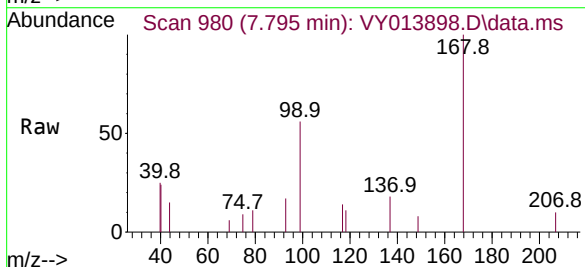
Tgt Ion: 117 Resp: 209

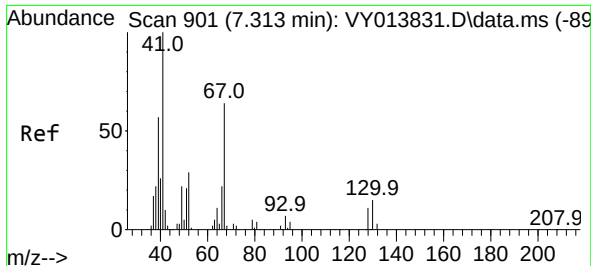
Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

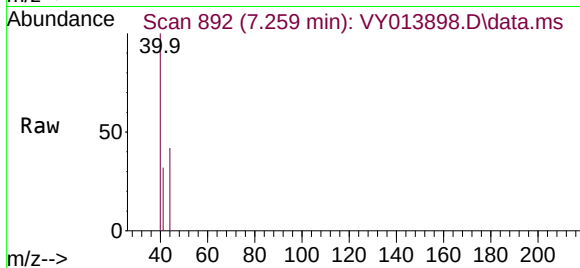
121 0.0 24.8 37.2#



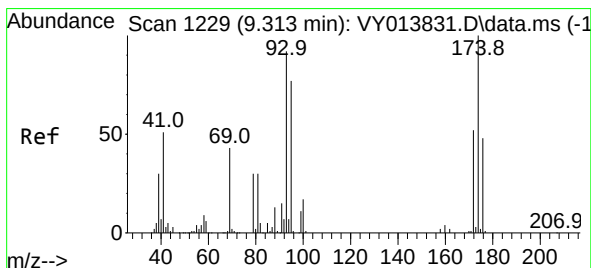
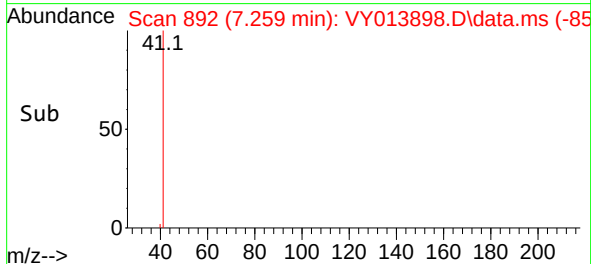
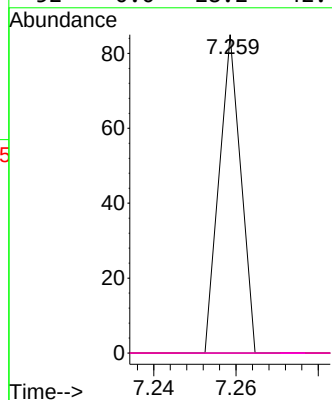


#41  
Methacrylonitrile  
Concen: 2.272 ug/l  
RT: 7.259 min Scan# 89  
Delta R.T. -0.055 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB17A

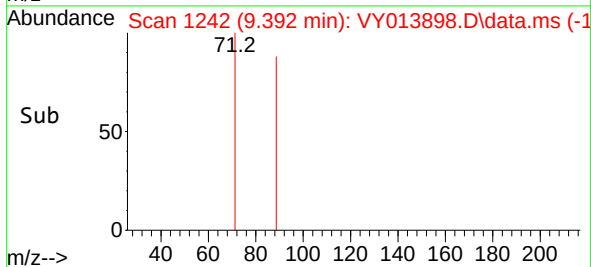
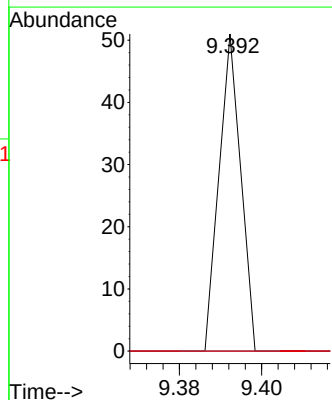
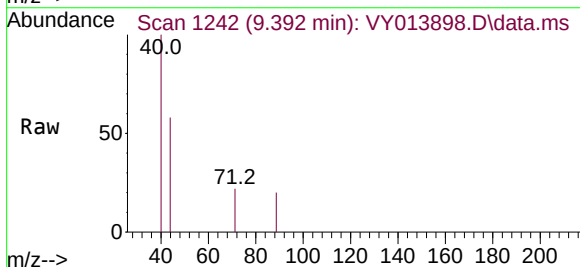


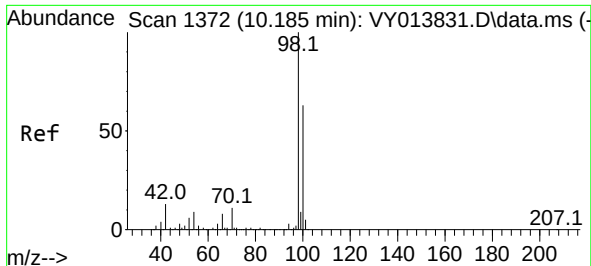
Tgt Ion: 41 Resp: 31  
Ion Ratio Lower Upper  
41 100  
39 0.0 44.1 66.1#  
67 0.0 63.7 95.5#  
52 0.0 28.2 42.4#



#49  
1,4-Dioxane  
Concen: 93.578 ug/l  
RT: 9.392 min Scan# 1242  
Delta R.T. 0.079 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Tgt Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 59.0 88.6#

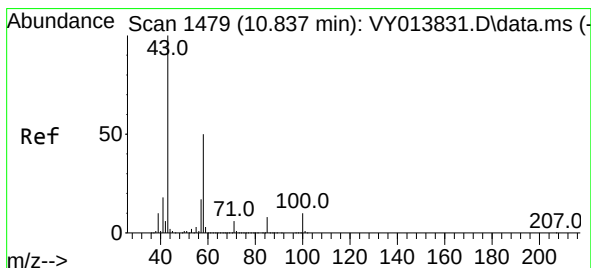
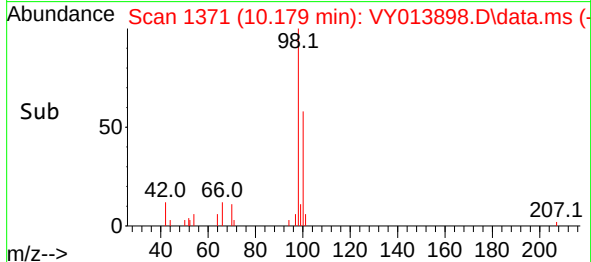
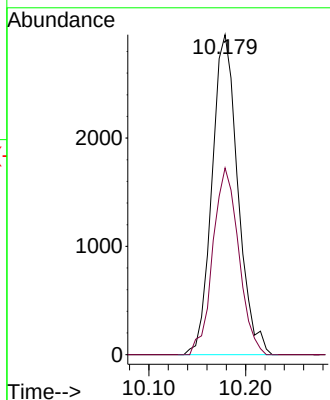
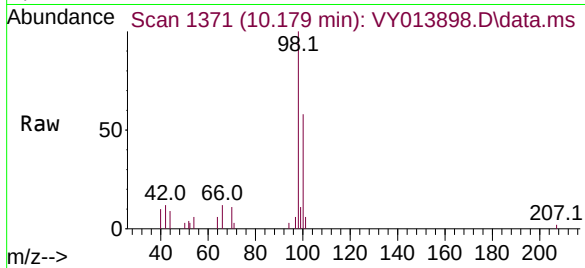




#50  
Toluene-d8  
Concen: 53.615 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

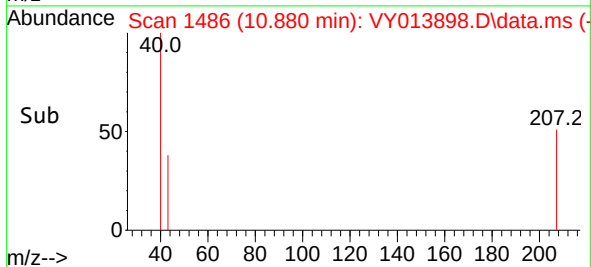
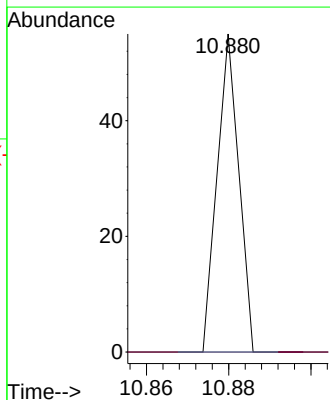
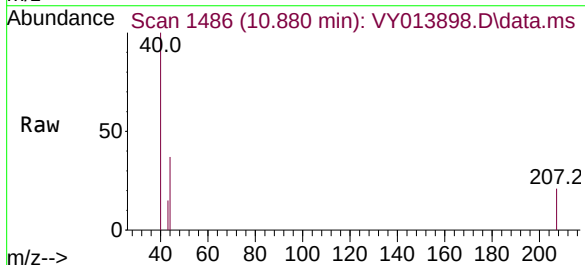
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB17A

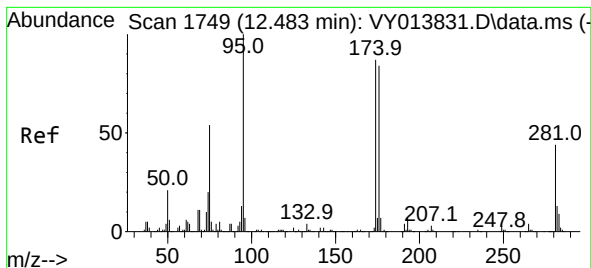
Tgt Ion: 98 Resp: 5485  
Ion Ratio Lower Upper  
98 100  
100 58.4 50.8 76.2



#59  
2-Hexanone  
Concen: 1.158 ug/l  
RT: 10.880 min Scan# 1486  
Delta R.T. 0.043 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Tgt Ion: 43 Resp: 20  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.8 74.3#

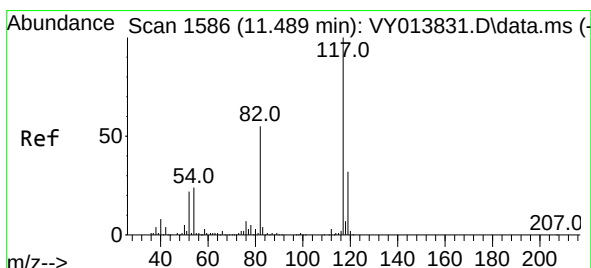
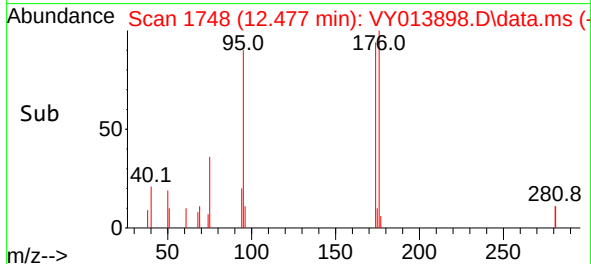
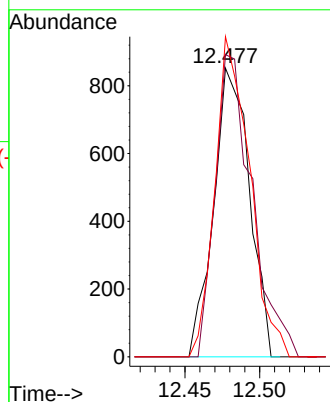
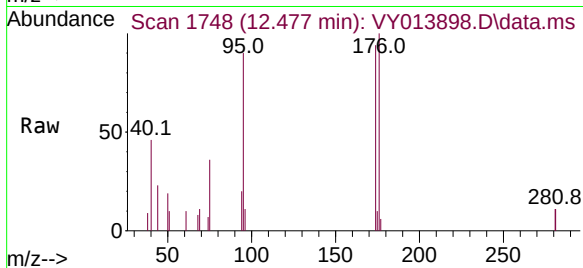




#62  
4-Bromofluorobenzene  
Concen: 41.640 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

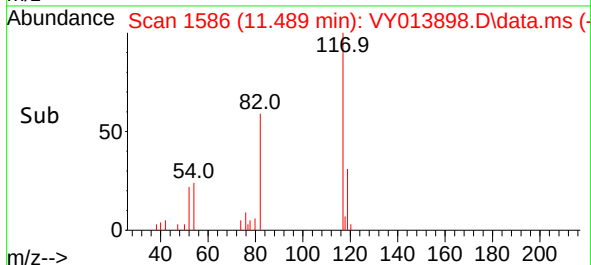
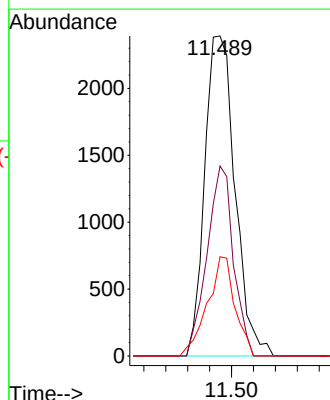
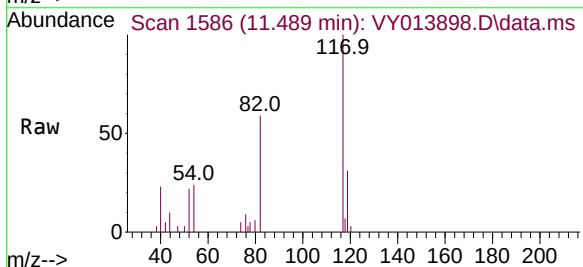
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB17A

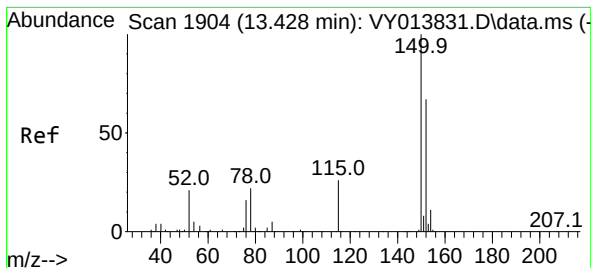
Tgt Ion: 95 Resp: 1416  
Ion Ratio Lower Upper  
95 100  
174 107.8 0.0 176.0  
176 107.6 0.0 170.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Tgt Ion: 117 Resp: 4590  
Ion Ratio Lower Upper  
117 100  
82 59.3 44.2 66.4  
119 31.0 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1904

Delta R.T. -0.006 min

Lab File: VY013898.D

Acq: 26 May 2023 17:10

Instrument :

MSVOA\_Y

ClientSampleId :

SB17A

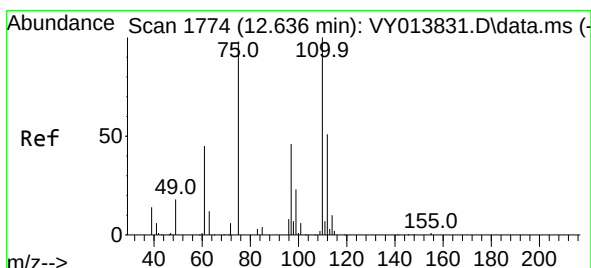
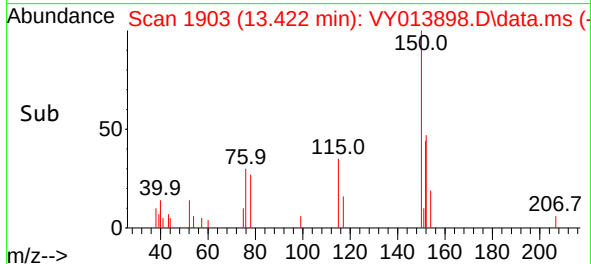
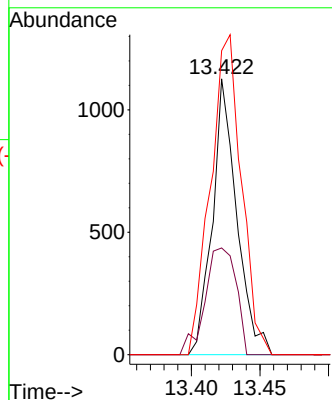
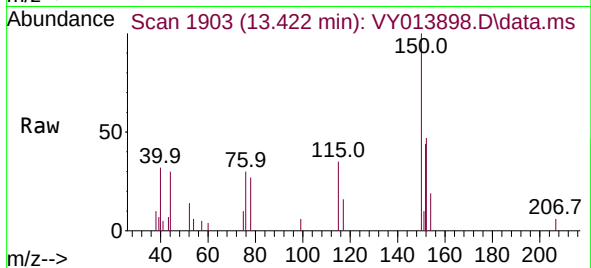
Tgt Ion:152 Resp: 1396

Ion Ratio Lower Upper

152 100

115 49.2 28.8 86.5

150 146.7 0.0 353.4



#76

1,2,3-Trichloropropane

Concen: 2.248 ug/l

RT: 12.642 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VY013898.D

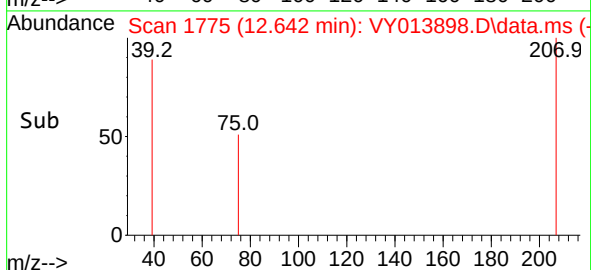
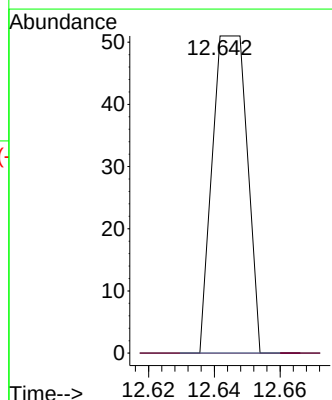
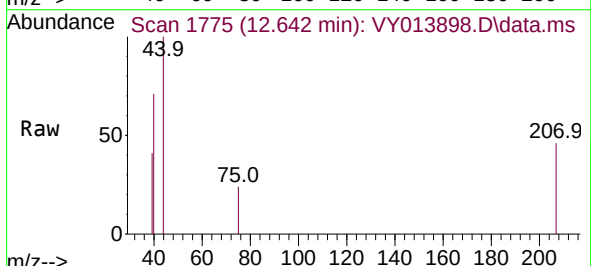
Acq: 26 May 2023 17:10

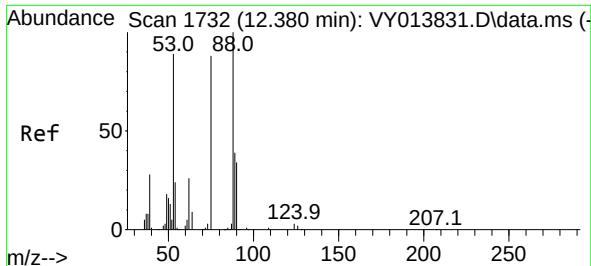
Tgt Ion: 75 Resp: 37

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

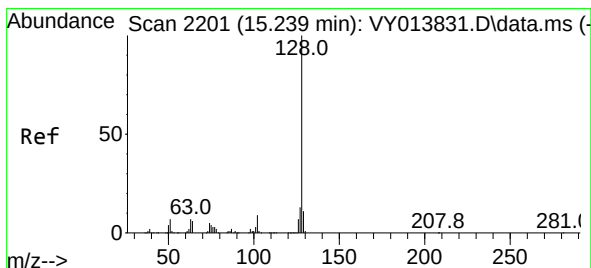
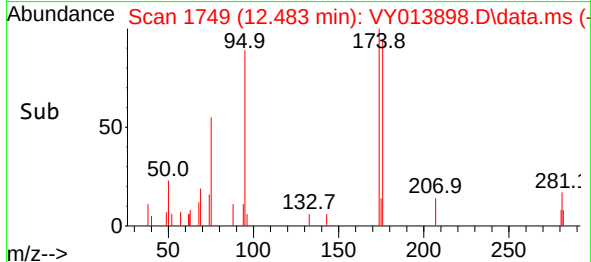
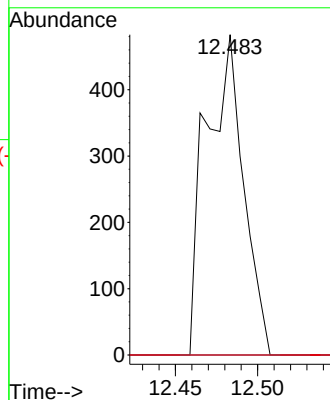
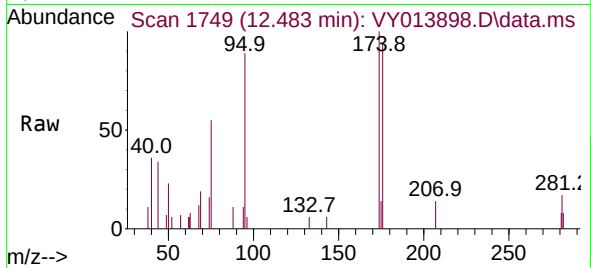




#81  
trans-1,4-Dichloro-2-butene  
Concen: 100.881 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB17A

Tgt Ion: 75 Resp: 765  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.7 119.5#  
89 0.0 36.4 54.6#



#95  
Naphthalene  
Concen: 7.631 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.006 min  
Lab File: VY013898.D  
Acq: 26 May 2023 17:10

Tgt Ion: 128 Resp: 202  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 0.0 9.0 13.4#

