

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053023\  
 Data File : VY013924.D  
 Acq On : 30 May 2023 17:06  
 Operator : KP/MD  
 Sample : 02852-10  
 Misc : 6.69g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CB-32-G3-SO-50.5-051823-FD

Quant Time: May 31 03:27:32 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

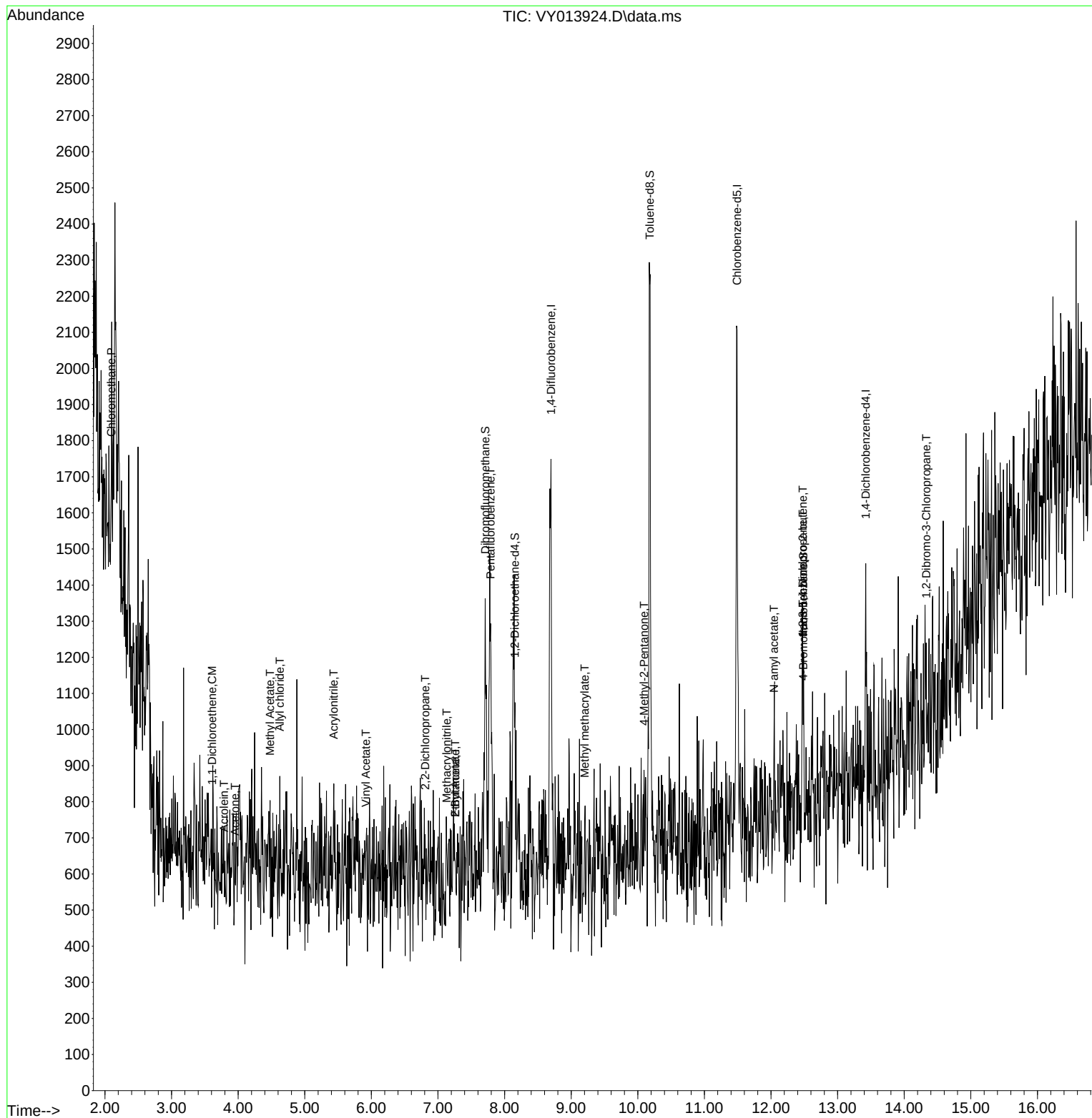
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 1027     | 50.000   | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.697     | 114   | 1510     | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 944      | 50.000   | ug/l       | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.422    | 152   | 43       | 50.000   | ug/l       | # 0.00   |
|                               |           |       |          |          |            |          |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.155     | 65    | 808      | 68.006   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | = 136.020% |          |
| 35) Dibromofluoromethane      | 7.710     | 113   | 503      | 51.581   | ug/l       | -0.01    |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | = 103.160% |          |
| 50) Toluene-d8                | 10.179    | 98    | 1460     | 39.392   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery | = 78.780%  |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 211      | 17.127   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery | = 34.260%  |          |
|                               |           |       |          |          |            |          |
| Target Compounds              |           |       |          |          |            | Qvalue   |
| 3) Chloromethane              | 2.095     | 50    | 19       | 1.658    | ug/l       | # 43     |
| 12) 1,1-Dichloroethene        | 3.607     | 96    | 24       | 2.389    | ug/l       | # 1      |
| 13) Acrolein                  | 3.790     | 56    | 20       | 14.608   | ug/l       | # 15     |
| 14) Allyl chloride            | 4.625     | 41    | 23       | 1.254    | ug/l       | # 1      |
| 15) Acrylonitrile             | 5.436     | 53    | 28       | 9.026    | ug/l       | # 17     |
| 16) Acetone                   | 3.954     | 43    | 24       | 6.806    | ug/l       | # 46     |
| 18) Methyl Acetate            | 4.479     | 43    | 25       | 2.043    | ug/l       | # 54     |
| 23) Vinyl Acetate             | 5.917     | 43    | 38       | 1.842    | ug/l       | # 74     |
| 25) 2-Butanone                | 7.259     | 43    | 48       | 11.155   | ug/l       | # 49     |
| 26) 2,2-Dichloropropane       | 6.807     | 77    | 19       | 1.020    | ug/l       | # 53     |
| 37) Ethyl Acetate             | 7.259     | 43    | 48       | 5.298    | ug/l       | # 71     |
| 41) Methacrylonitrile         | 7.131     | 41    | 19       | 3.844    | ug/l       | # 20     |
| 48) Methyl methacrylate       | 9.203     | 41    | 20       | 2.580    | ug/l       | # 16     |
| 51) 4-Methyl-2-Pentanone      | 10.093    | 43    | 40       | 4.546    | ug/l       | # 38     |
| 74) N-amyl acetate            | 12.044    | 43    | 19       | 19.746   | ug/l       | # 47     |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 61       | 120.309  | ug/l       | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 61       | 261.153  | ug/l       | # 10     |
| 92) 1,2-Dibromo-3-Chloropr... | 14.331    | 75    | 20       | 172.304  | ug/l       | # 2      |
| -----                         |           |       |          |          |            |          |

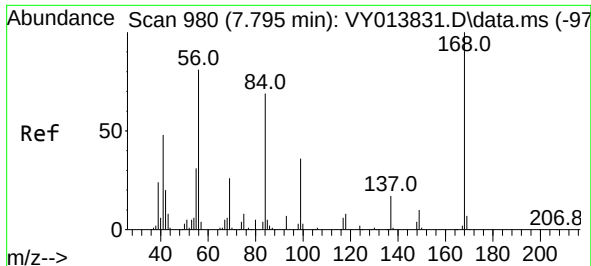
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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CB-32-G3-SO-50.5-051823-FD

Quant Time: May 31 03:27:32 2023  
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Quant Title : SW846 8260  
QLast Update : Wed May 24 05:25:47 2023  
Response via : Initial Calibration

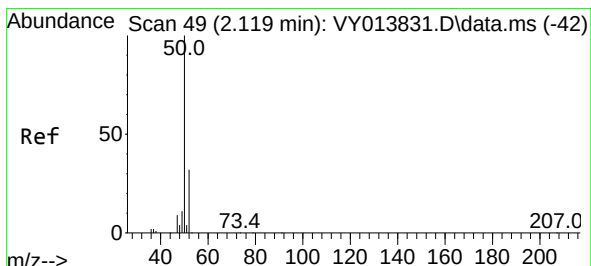
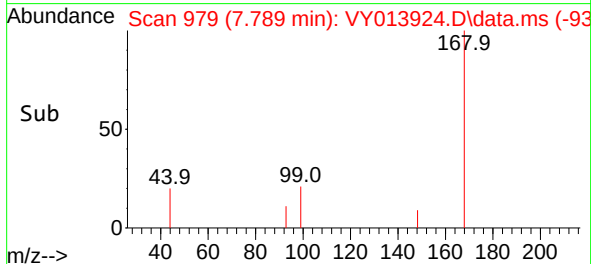
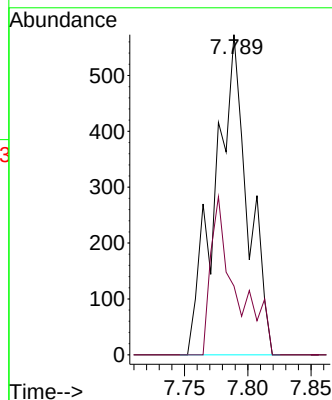
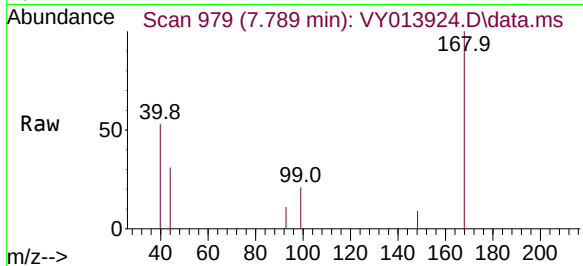




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

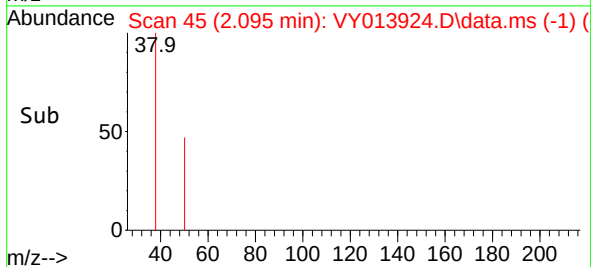
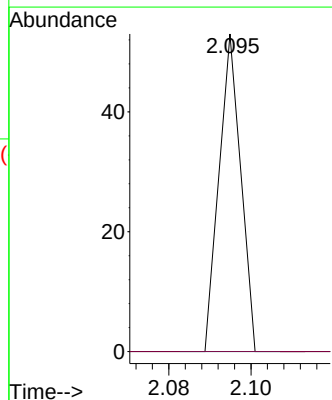
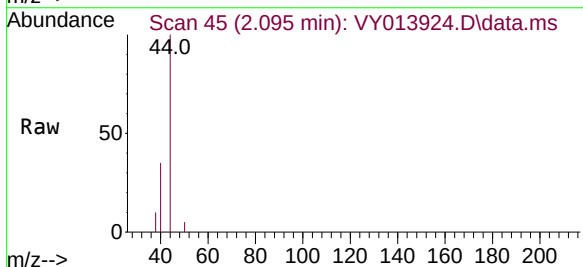
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823-FD

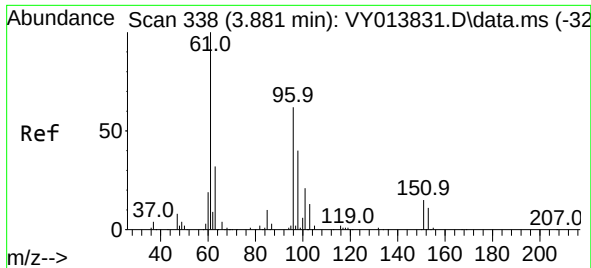
Tgt Ion:168 Resp: 1027  
Ion Ratio Lower Upper  
168 100  
99 21.5 43.4 65.2#



#3  
Chloromethane  
Concen: 1.658 ug/l  
RT: 2.095 min Scan# 45  
Delta R.T. -0.024 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

Tgt Ion: 50 Resp: 19  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#

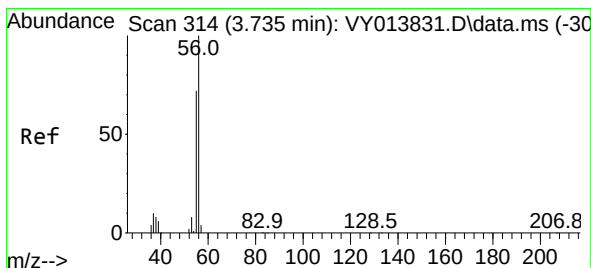
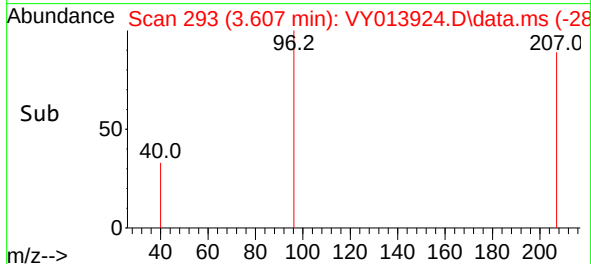
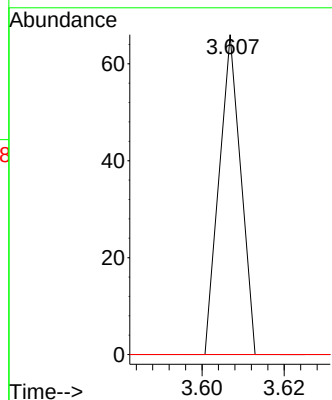
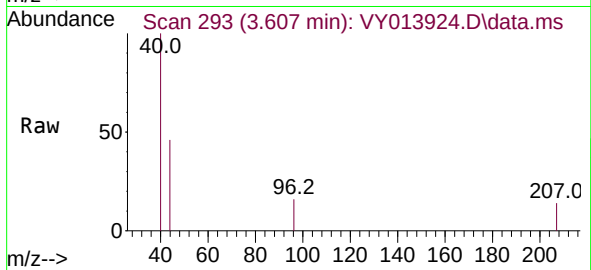




#12  
1,1-Dichloroethene  
Concen: 2.389 ug/l  
RT: 3.607 min Scan# 24  
Delta R.T. -0.274 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

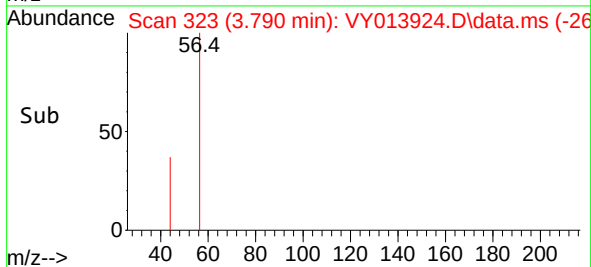
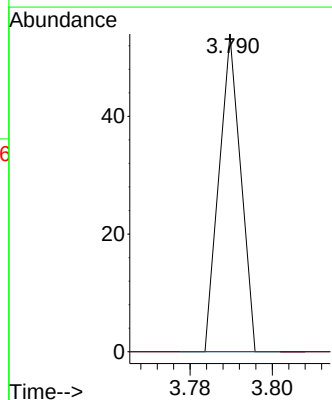
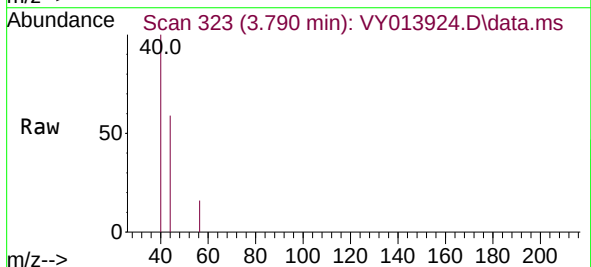
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823-FD

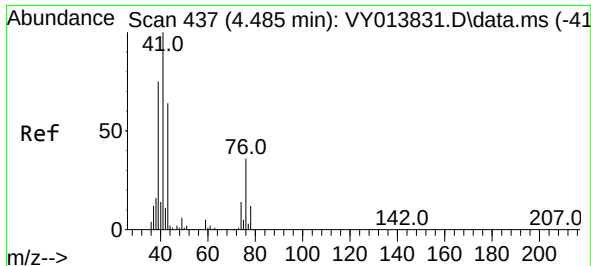
Tgt Ion: 96 Resp: 24  
Ion Ratio Lower Upper  
96 100  
61 0.0 129.0 193.4#  
98 0.0 52.0 78.0#



#13  
Acrolein  
Concen: 14.608 ug/l  
RT: 3.790 min Scan# 323  
Delta R.T. 0.055 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

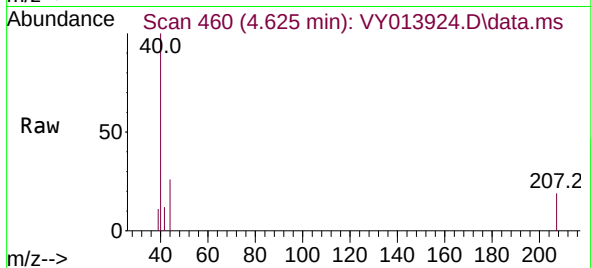
Tgt Ion: 56 Resp: 20  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.2 84.2#





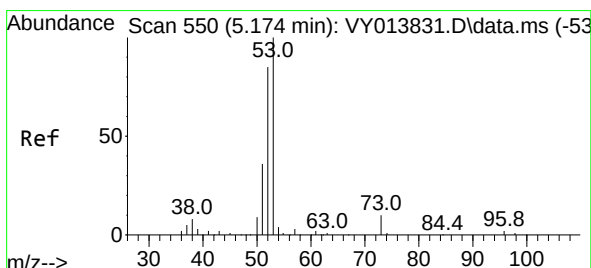
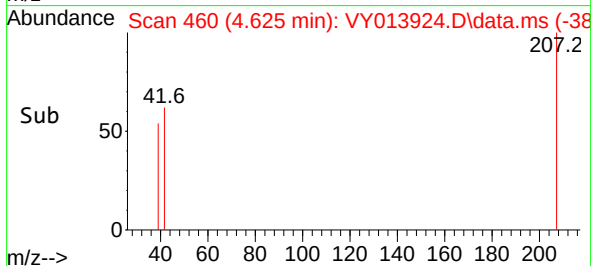
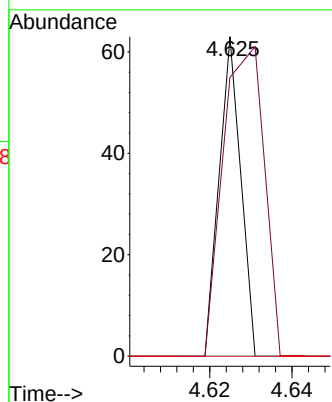
#14  
 Allyl chloride  
 Concen: 1.254 ug/l  
 RT: 4.625 min Scan# 41  
 Delta R.T. 0.140 min  
 Lab File: VY013924.D  
 Acq: 30 May 2023 17:06

Instrument : MSVOA\_Y  
 ClientSampleId : CB-32-G3-SO-50.5-051823-FD



Tgt Ion: 41 Resp: 23

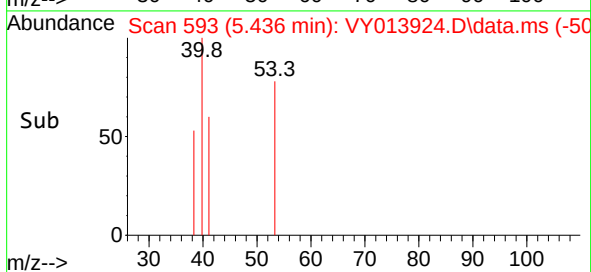
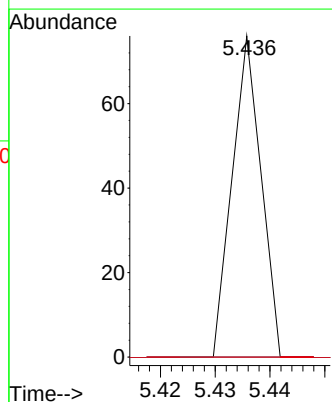
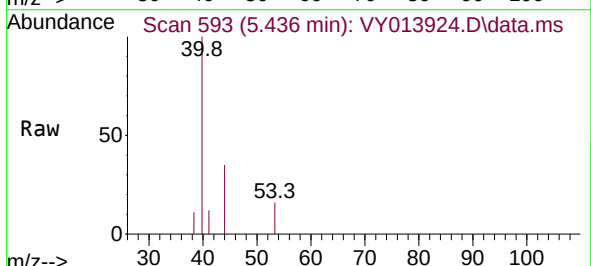
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 182.6 | 58.3  | 87.5# |
| 76  | 0.0   | 28.0  | 42.0# |

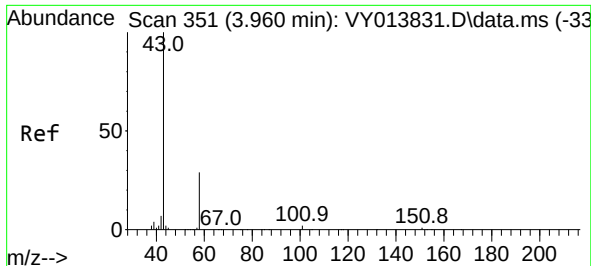


#15  
 Acrylonitrile  
 Concen: 9.026 ug/l  
 RT: 5.436 min Scan# 593  
 Delta R.T. 0.262 min  
 Lab File: VY013924.D  
 Acq: 30 May 2023 17:06

Tgt Ion: 53 Resp: 28

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 53  | 100   |       |        |
| 52  | 0.0   | 67.2  | 100.8# |
| 51  | 0.0   | 30.2  | 45.2#  |

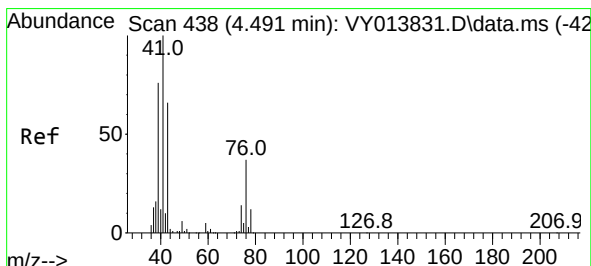
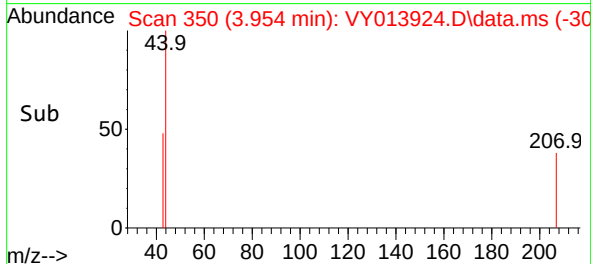
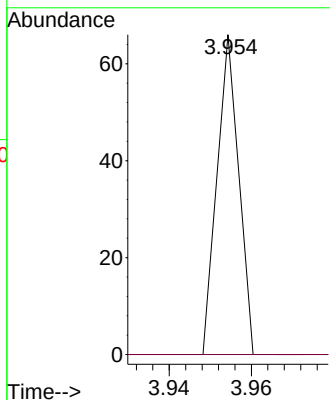
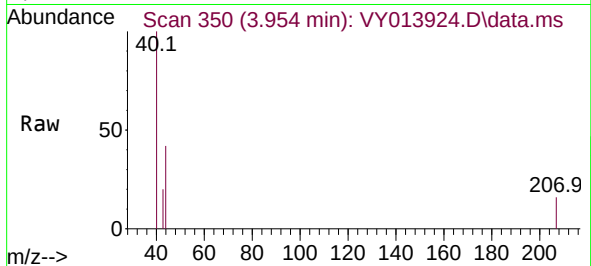




#16  
Acetone  
Concen: 6.806 ug/l  
RT: 3.954 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

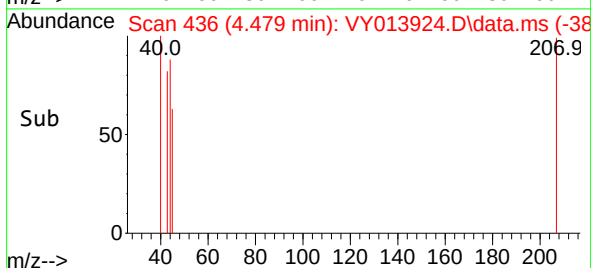
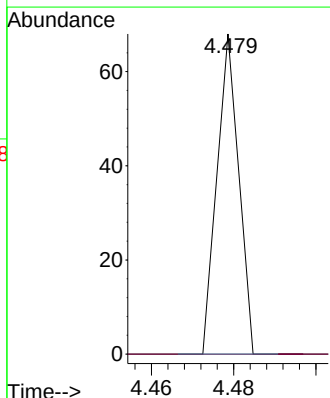
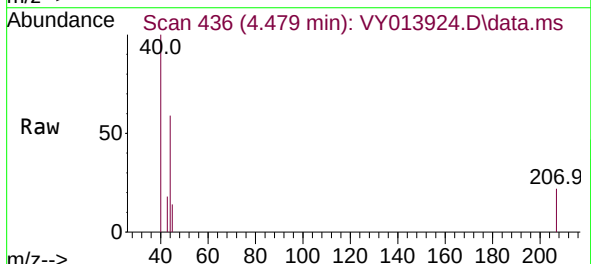
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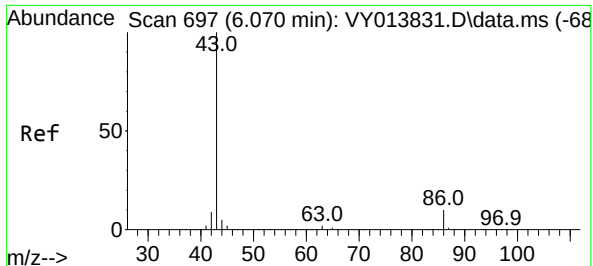
Tgt Ion: 43 Resp: 24  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.3 34.9#



#18  
Methyl Acetate  
Concen: 2.043 ug/l  
RT: 4.479 min Scan# 436  
Delta R.T. -0.012 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

Tgt Ion: 43 Resp: 25  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.4 26.0#

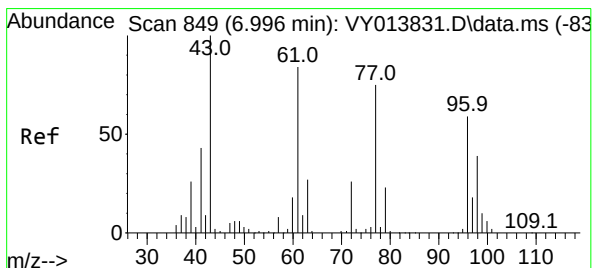
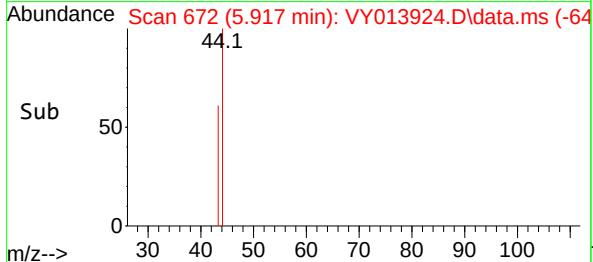
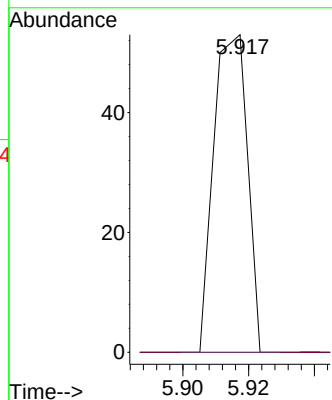
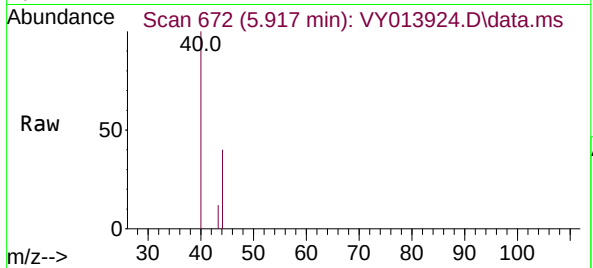




#23  
 Vinyl Acetate  
 Concen: 1.842 ug/l  
 RT: 5.917 min Scan# 61  
 Delta R.T. -0.152 min  
 Lab File: VY013924.D  
 Acq: 30 May 2023 17:06

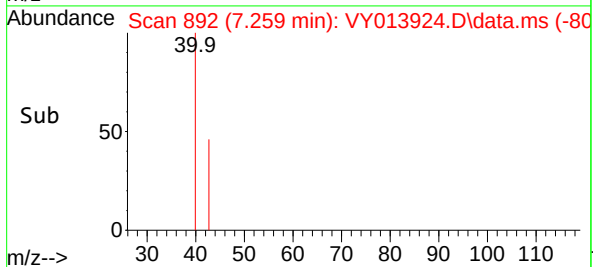
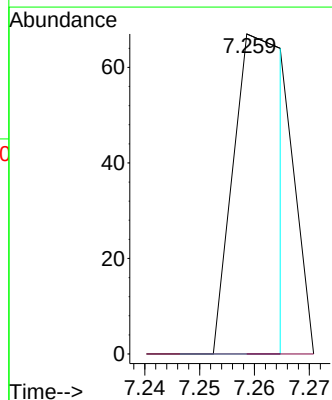
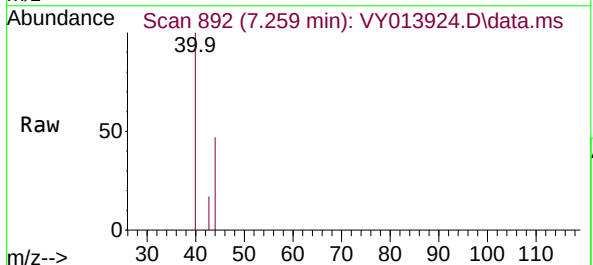
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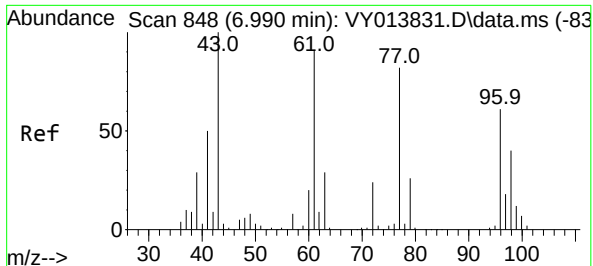
Tgt Ion: 43 Resp: 38  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 7.6 11.4#



#25  
 2-Butanone  
 Concen: 11.155 ug/l  
 RT: 7.259 min Scan# 892  
 Delta R.T. 0.262 min  
 Lab File: VY013924.D  
 Acq: 30 May 2023 17:06

Tgt Ion: 43 Resp: 48  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 20.5 30.7#





#26

2,2-Dichloropropane

Concen: 1.020 ug/l

RT: 6.807 min Scan# 81

Delta R.T. -0.183 min

Lab File: VY013924.D

Acq: 30 May 2023 17:06

Instrument :

MSVOA\_Y

ClientSampleId :

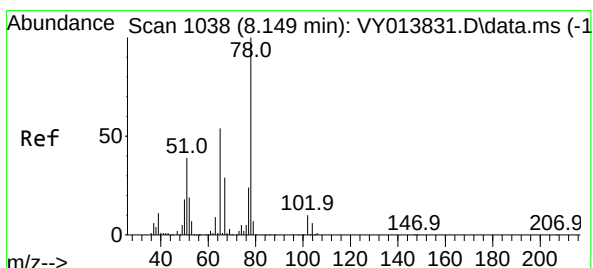
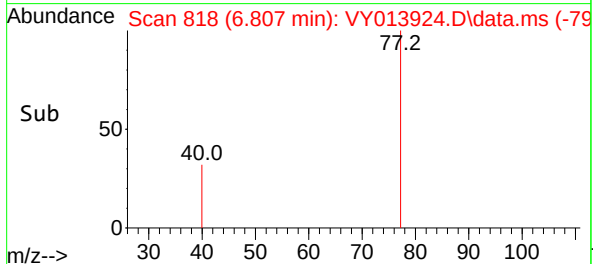
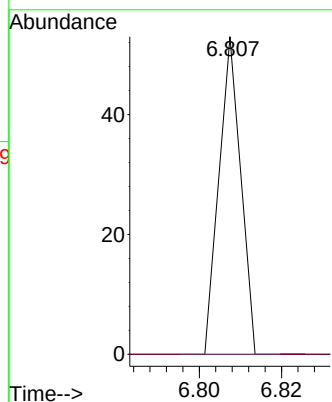
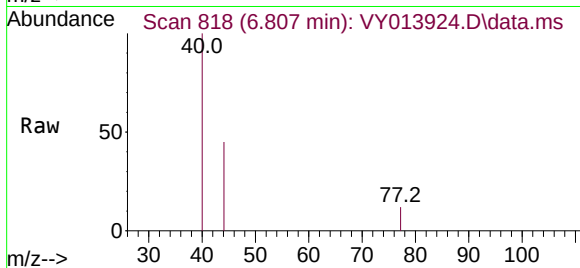
CB-32-G3-SO-50.5-051823-FD

Tgt Ion: 77 Resp: 19

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#



#33

1,2-Dichloroethane-d4

Concen: 68.006 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. 0.006 min

Lab File: VY013924.D

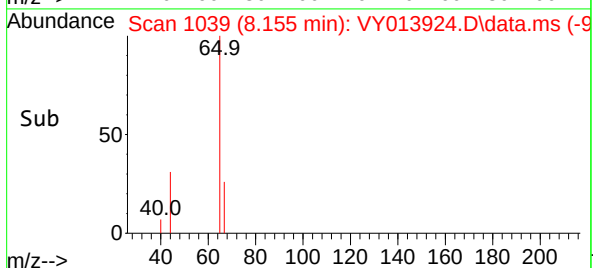
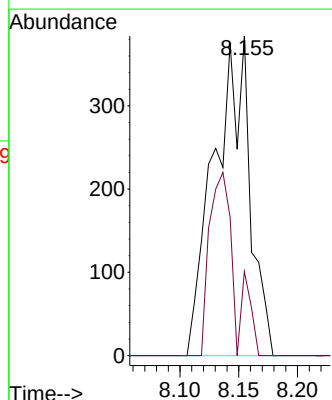
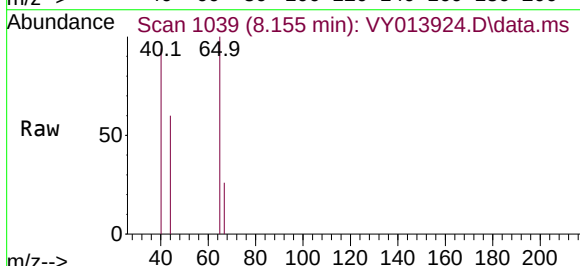
Acq: 30 May 2023 17:06

Tgt Ion: 65 Resp: 808

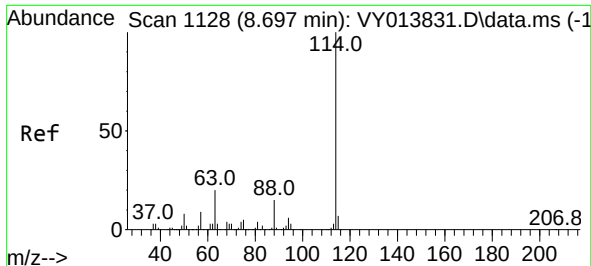
Ion Ratio Lower Upper

65 100

67 40.6 0.0 104.4



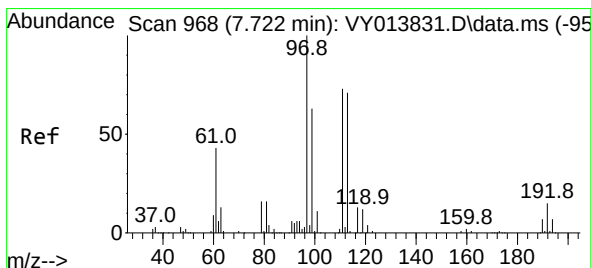
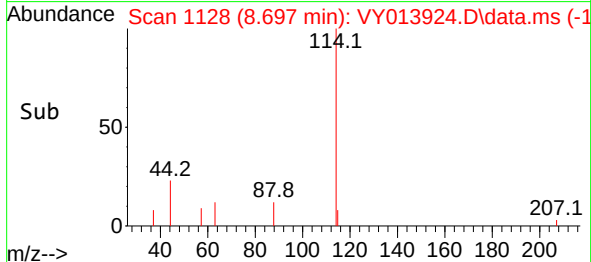
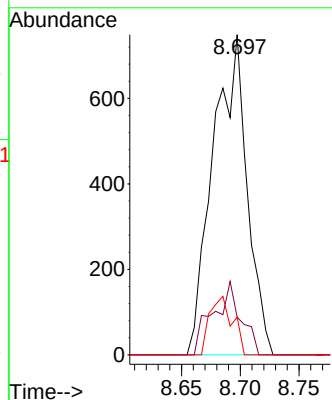
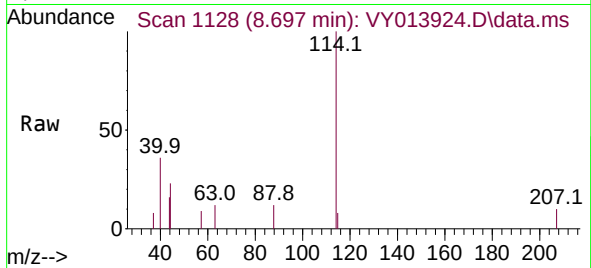




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.697 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

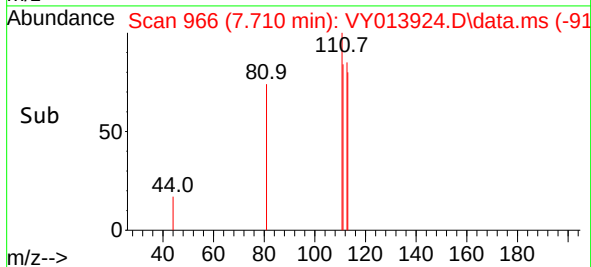
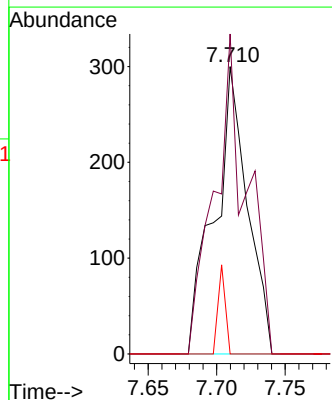
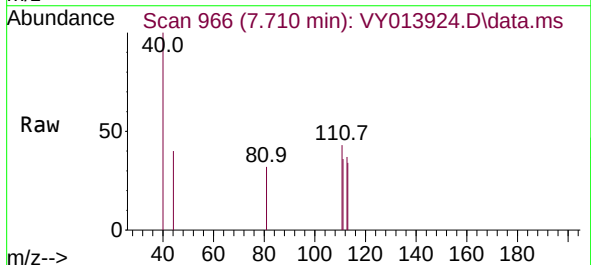
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823-FD

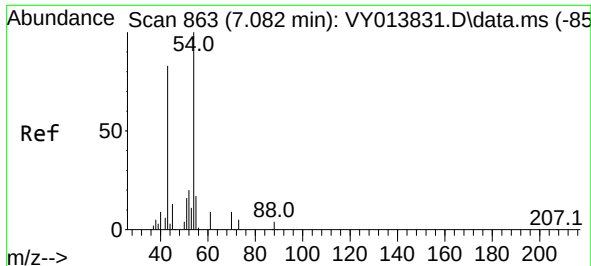
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 1510  |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 11.7  | 0.0   | 40.2  |
| 88       | 11.7  | 0.0   | 30.0  |



#35  
Dibromofluoromethane  
Concen: 51.581 ug/l  
RT: 7.710 min Scan# 966  
Delta R.T. -0.012 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 503   |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 108.2 | 80.4  | 120.6 |
| 192      | 6.8   | 16.6  | 25.0# |





#37

Ethyl Acetate

Concen: 5.298 ug/l

RT: 7.259 min Scan# 892

Delta R.T. 0.177 min

Lab File: VY013924.D

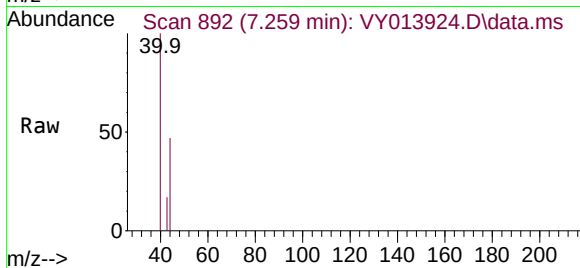
Acq: 30 May 2023 17:06

Instrument :

MSVOA\_Y

ClientSampleId :

CB-32-G3-SO-50.5-051823-FD



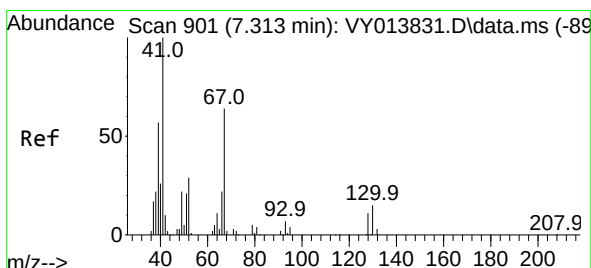
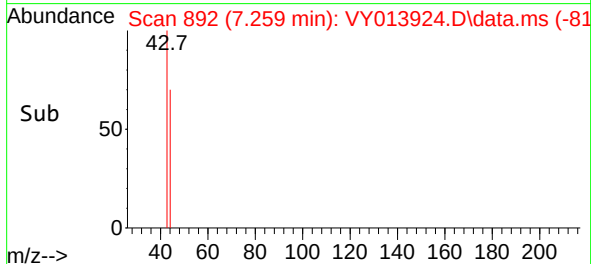
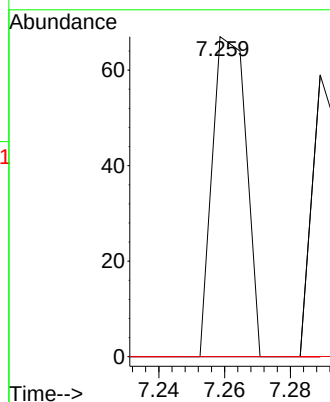
Tgt Ion: 43 Resp: 48

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

70 0.0 6.9 10.3#



#41

Methacrylonitrile

Concen: 3.844 ug/l

RT: 7.131 min Scan# 871

Delta R.T. -0.183 min

Lab File: VY013924.D

Acq: 30 May 2023 17:06

Tgt Ion: 41 Resp: 19

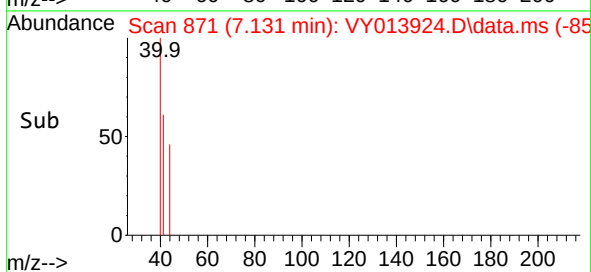
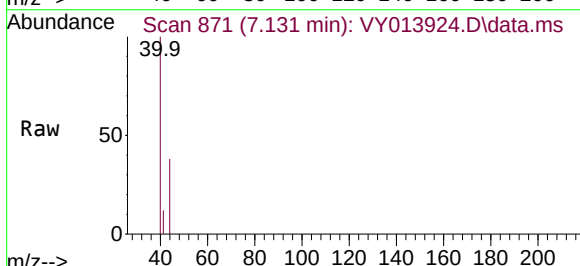
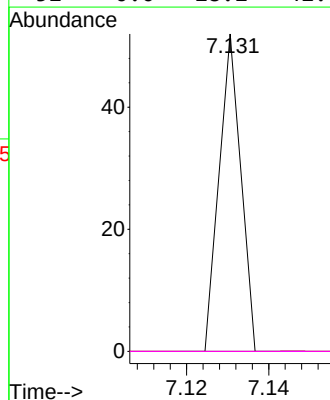
Ion Ratio Lower Upper

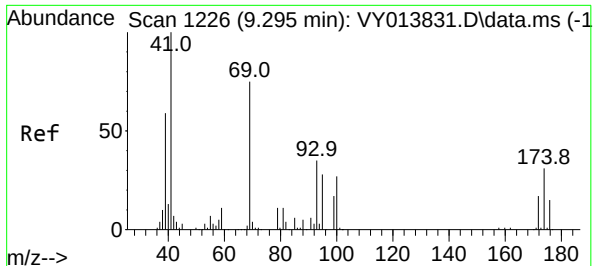
41 100

39 0.0 44.1 66.1#

67 0.0 63.7 95.5#

52 0.0 28.2 42.4#





#48

Methyl methacrylate

Concen: 2.580 ug/l

RT: 9.203 min Scan# 11

Delta R.T. -0.091 min

Lab File: VY013924.D

Acq: 30 May 2023 17:06

Instrument :

MSVOA\_Y

ClientSampleId :

CB-32-G3-SO-50.5-051823-FD

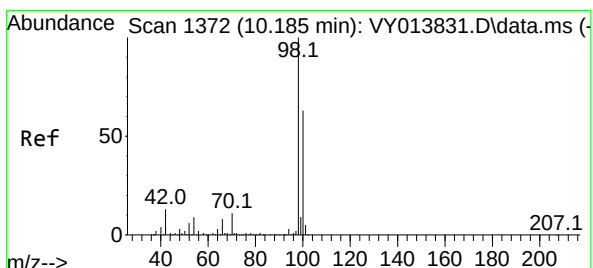
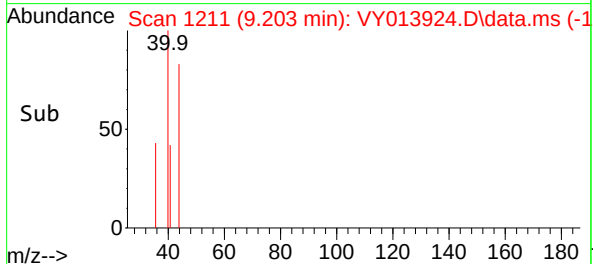
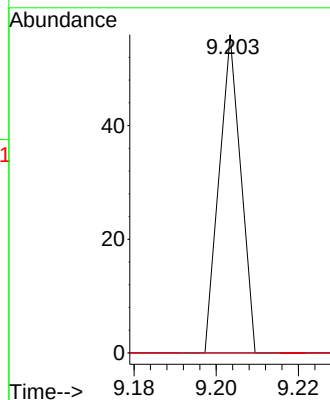
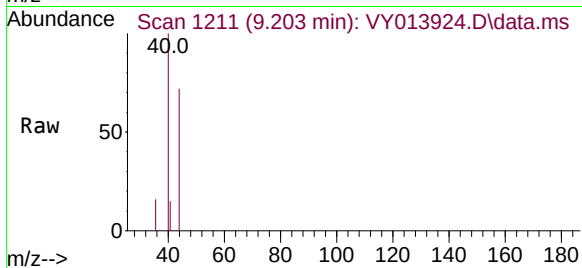
Tgt Ion: 41 Resp: 20

Ion Ratio Lower Upper

41 100

69 0.0 62.0 93.0#

39 0.0 45.7 68.5#



#50

Toluene-d8

Concen: 39.392 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.006 min

Lab File: VY013924.D

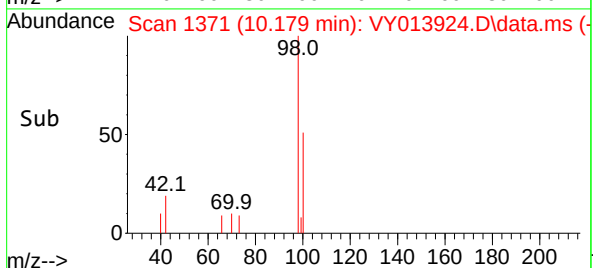
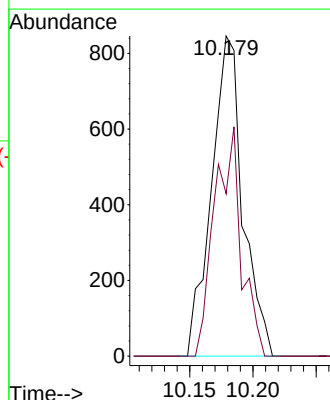
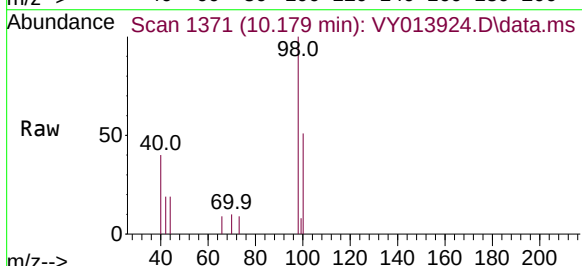
Acq: 30 May 2023 17:06

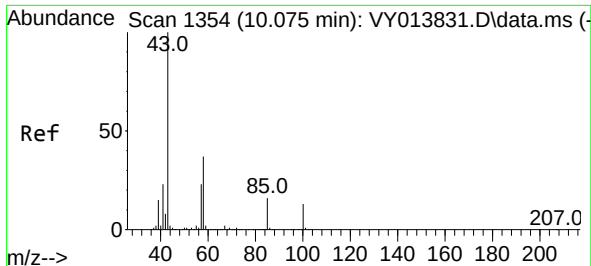
Tgt Ion: 98 Resp: 1460

Ion Ratio Lower Upper

98 100

100 60.9 50.8 76.2

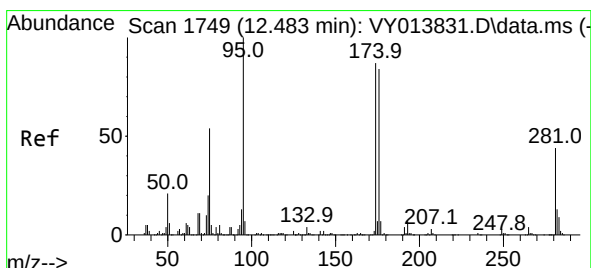
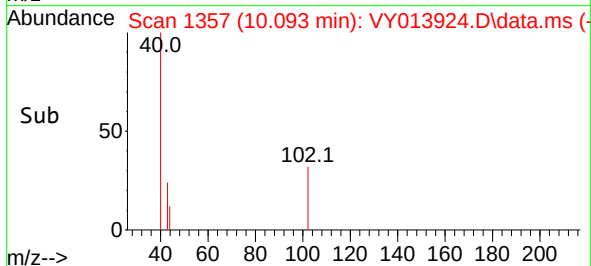
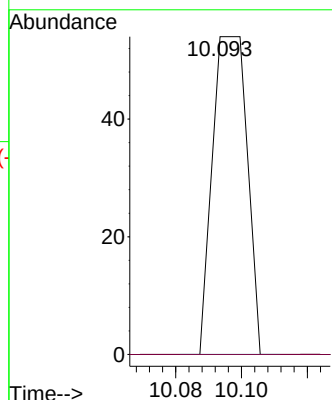
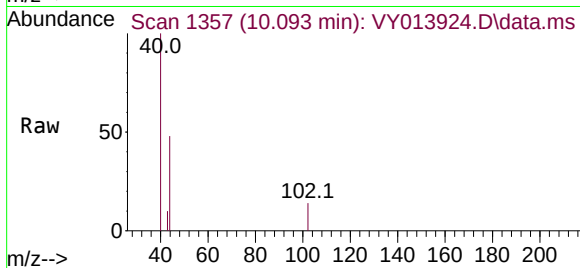




#51  
4-Methyl-2-Pentanone  
Concen: 4.546 ug/l  
RT: 10.093 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

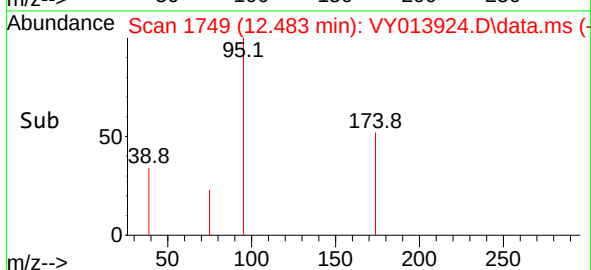
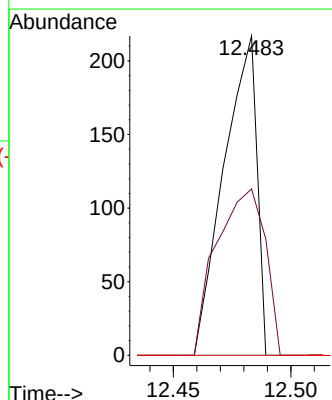
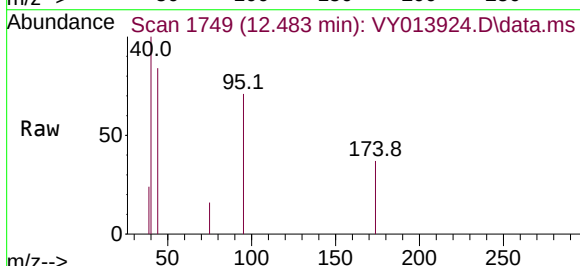
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823-FD

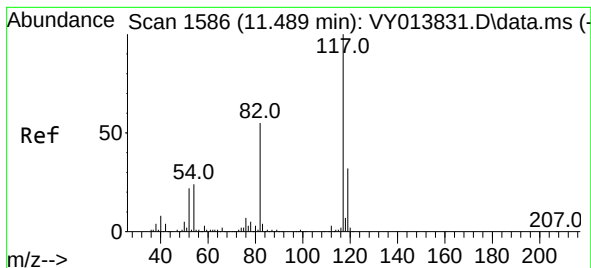
Tgt Ion: 43 Resp: 40  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.1 43.7#



#62  
4-Bromofluorobenzene  
Concen: 17.127 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

Tgt Ion: 95 Resp: 211  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 176.0  
176 0.0 0.0 170.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013924.D

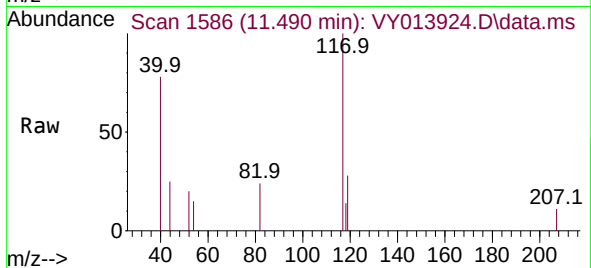
Acq: 30 May 2023 17:06

Instrument :

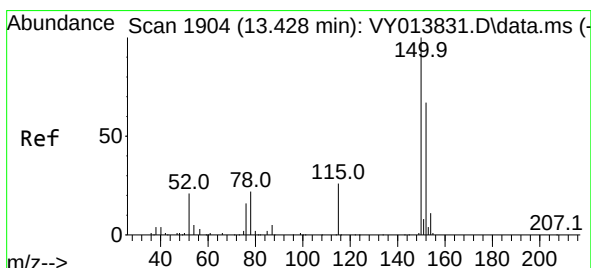
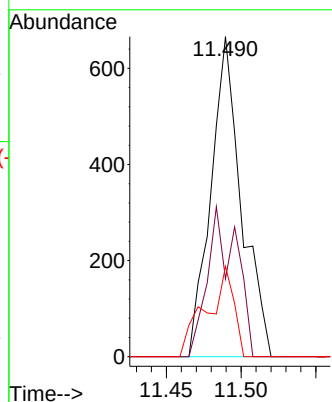
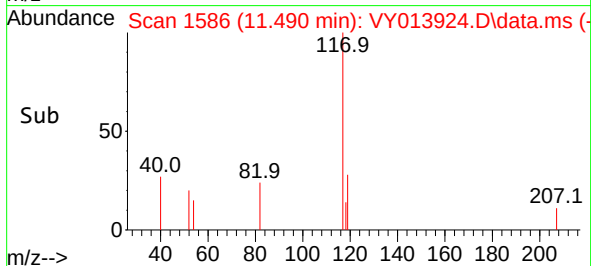
MSVOA\_Y

ClientSampleId :

CB-32-G3-SO-50.5-051823-FD



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:117 | Resp: | 944         |
| Ion         | Ratio | Lower Upper |
| 117         | 100   |             |
| 82          | 24.3  | 44.2 66.4#  |
| 119         | 28.2  | 25.7 38.5   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

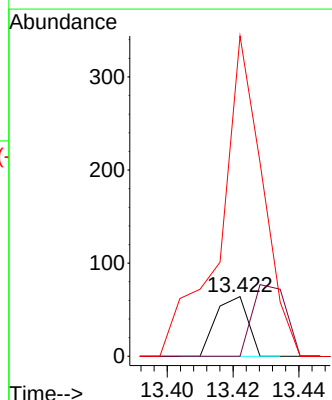
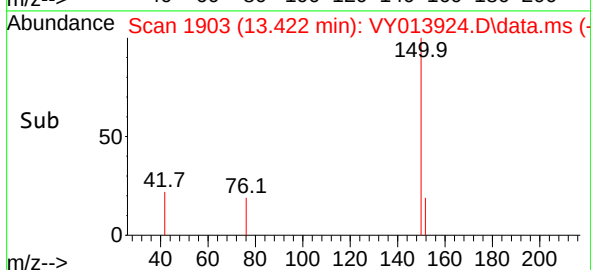
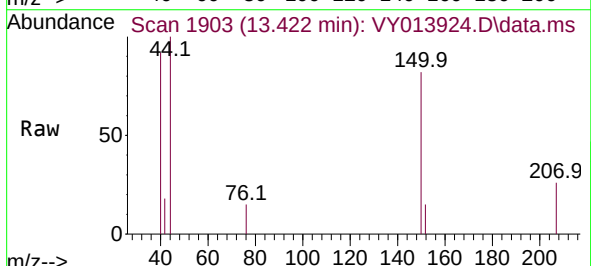
RT: 13.422 min Scan# 1903

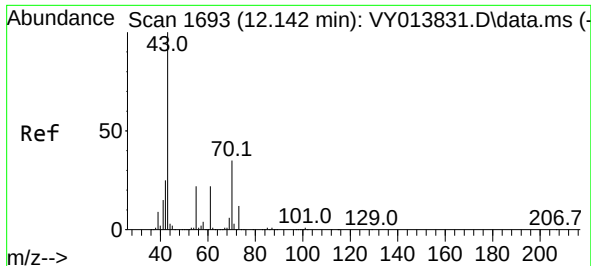
Delta R.T. -0.006 min

Lab File: VY013924.D

Acq: 30 May 2023 17:06

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:152 | Resp: | 43          |
| Ion         | Ratio | Lower Upper |
| 152         | 100   |             |
| 115         | 127.9 | 28.8 86.5#  |
| 150         | 718.6 | 0.0 353.4#  |

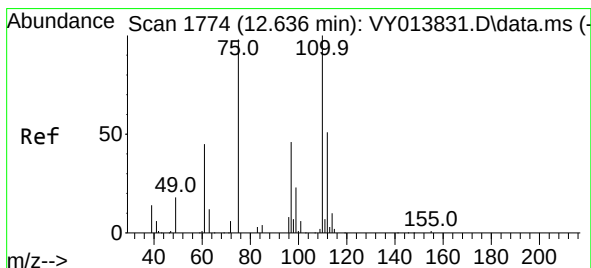
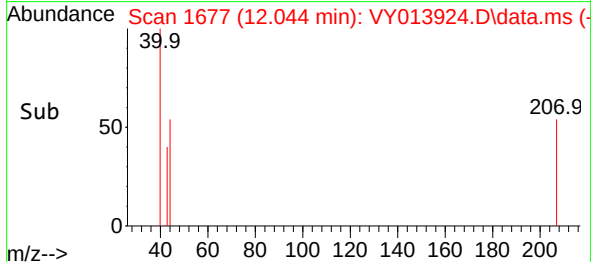
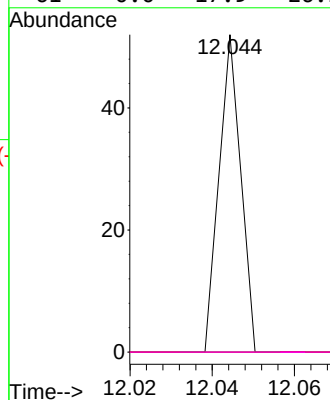
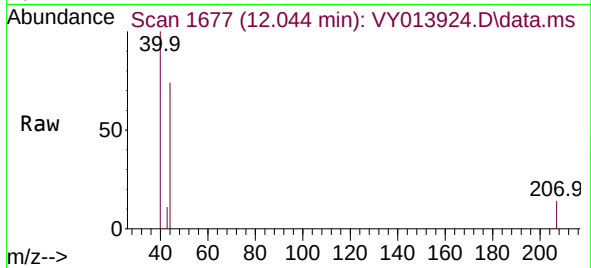




#74  
N-amy1 acetate  
Concen: 19.746 ug/l  
RT: 12.044 min Scan# 1748  
Delta R.T. -0.097 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

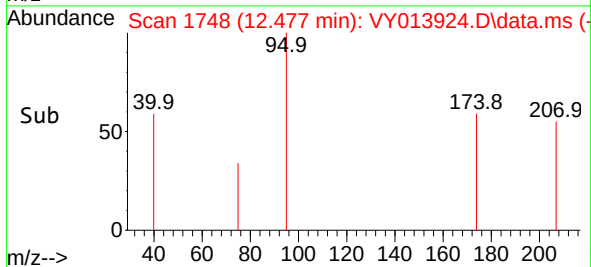
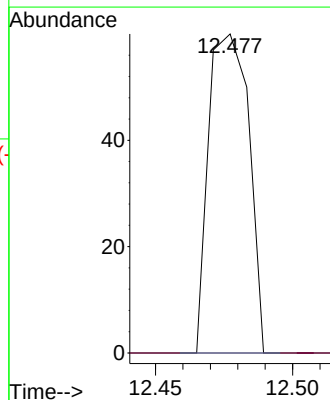
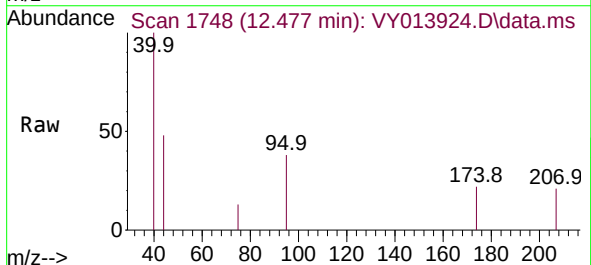
Instrument : MSVOA\_Y  
ClientSampleId : CB-32-G3-SO-50.5-051823-FD

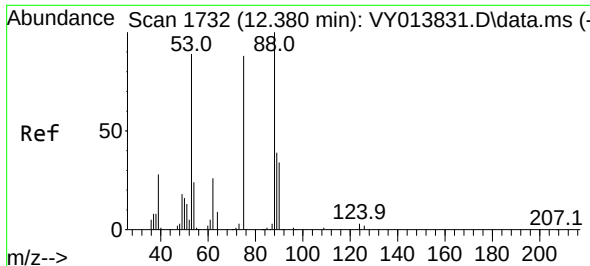
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 19    |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 29.3 43.9#  |
| 55 0.0      | 18.0 27.0#  |
| 61 0.0      | 17.9 26.9#  |



#76  
1,2,3-Trichloropropane  
Concen: 120.309 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.158 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 61    |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 0.0      | 0.0 0.0     |

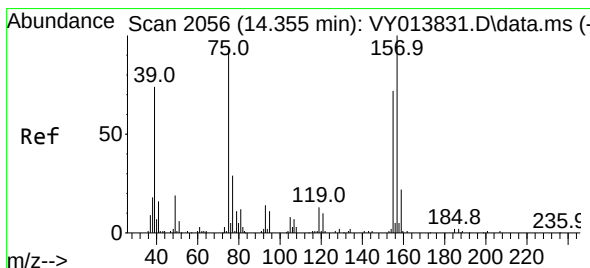
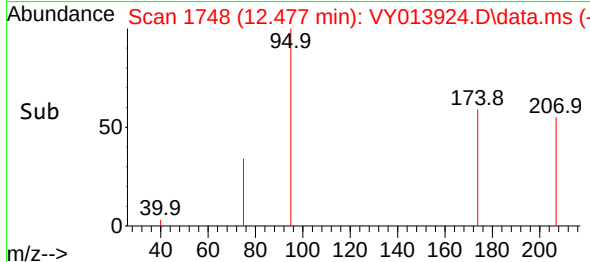
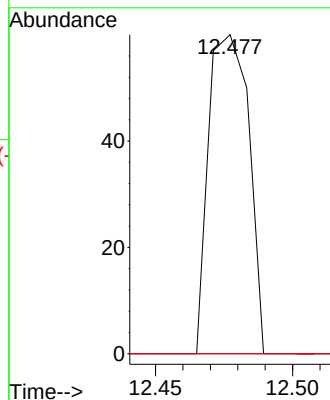
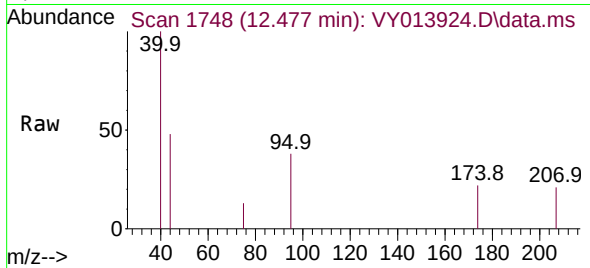




#81  
trans-1,4-Dichloro-2-butene  
Concen: 261.153 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.098 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CB-32-G3-SO-50.5-051823-FD

Tgt Ion: 75 Resp: 61  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.7 119.5#  
89 0.0 36.4 54.6#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 172.304 ug/l  
RT: 14.331 min Scan# 2052  
Delta R.T. -0.024 min  
Lab File: VY013924.D  
Acq: 30 May 2023 17:06

Tgt Ion: 75 Resp: 20  
Ion Ratio Lower Upper  
75 100  
155 0.0 39.9 119.6#  
157 0.0 54.6 163.8#

