

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031125\  
 Data File : VY021485.D  
 Acq On : 11 Mar 2025 14:45  
 Operator : SY/MD  
 Sample : Q1535-01  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SU-03-03102025

Quant Time: Mar 12 01:25:18 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 Response via : Initial Calibration

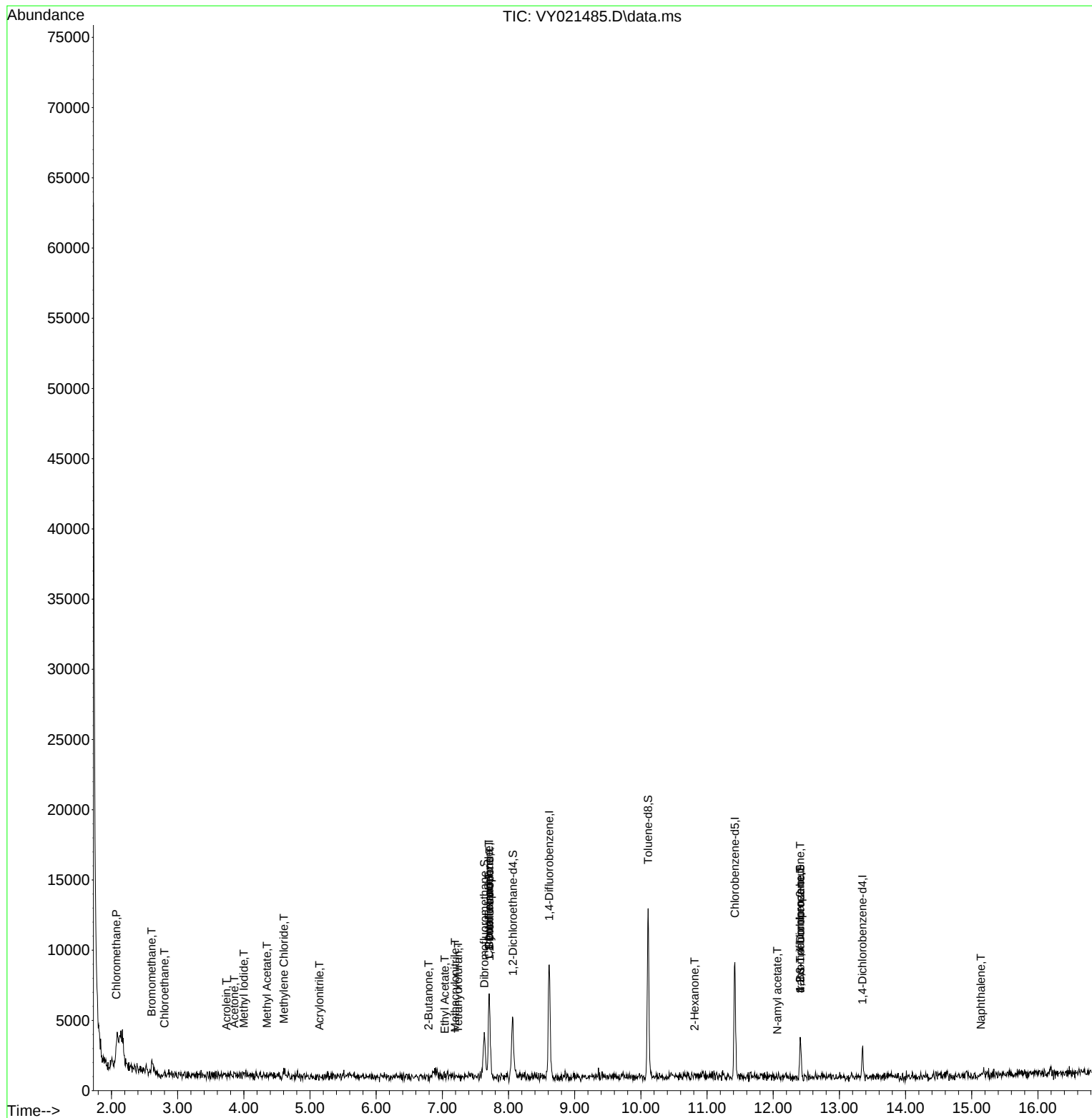
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.707          | 168  | 4312                | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616          | 114  | 6860                | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420         | 117  | 4681                | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346         | 152  | 571                 | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.067          | 65   | 3423                | 75.107  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 150.220% |         |        |          |
| 35) Dibromofluoromethane      | 7.634          | 113  | 2279                | 50.541  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 101.080% |         |        |          |
| 50) Toluene-d8                | 10.109         | 98   | 8209                | 48.081  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 96.160%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.408         | 95   | 840                 | 14.464  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 28.920%# |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 3) Chloromethane              | 2.074          | 50   | 354                 | 6.345   | ug/l # | 88       |
| 5) Bromomethane               | 2.604          | 94   | 447                 | 10.145  | ug/l # | 73       |
| 6) Chloroethane               | 2.800          | 64   | 41                  | 1.018   | ug/l # | 41       |
| 10) Methyl Iodide             | 4.001          | 142  | 530                 | 10.732  | ug/l # | 54       |
| 13) Acrolein                  | 3.738          | 56   | 20                  | 8.628   | ug/l # | 10       |
| 15) Acrylonitrile             | 5.141          | 53   | 43                  | 4.283   | ug/l # | 27       |
| 16) Acetone                   | 3.854          | 43   | 334                 | 33.600  | ug/l # | 47       |
| 18) Methyl Acetate            | 4.348          | 43   | 34                  | 1.542   | ug/l # | 51       |
| 20) Methylene Chloride        | 4.604          | 84   | 253                 | 4.849   | ug/l # | 54       |
| 25) 2-Butanone                | 6.793          | 43   | 27                  | 1.964   | ug/l # | 48       |
| 29) Tetrahydrofuran           | 7.238          | 42   | 66                  | 7.775   | ug/l # | 33       |
| 31) Cyclohexane               | 7.707          | 56   | 89                  | 1.043   | ug/l # | 82       |
| 36) 1,1-Dichloropropene       | 7.713          | 75   | 441                 | 6.248   | ug/l # | 41       |
| 37) Ethyl Acetate             | 7.037          | 43   | 58                  | 1.859   | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 7.701          | 117  | 458                 | 5.642   | ug/l # | 12       |
| 41) Methacrylonitrile         | 7.189          | 41   | 28                  | 1.648   | ug/l # | 1        |
| 59) 2-Hexanone                | 10.810         | 43   | 21                  | 1.016   | ug/l # | 24       |
| 74) N-amyl acetate            | 12.060         | 43   | 27                  | 2.764   | ug/l # | 42       |
| 76) 1,2,3-Trichloropropane    | 12.408         | 75   | 615                 | 106.884 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408         | 75   | 615                 | 242.982 | ug/l # | 9        |
| 95) Naphthalene               | 15.139         | 128  | 40                  | 4.023   | ug/l # | 69       |
| -----                         |                |      |                     |         |        |          |

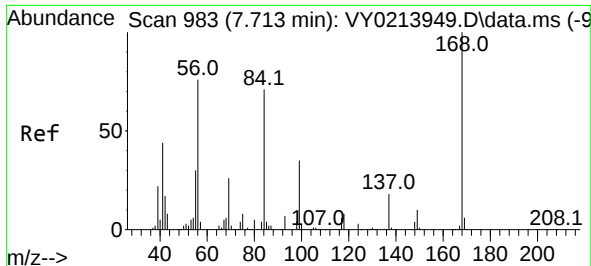
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031125\  
Data File : VY021485.D  
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Operator : SY/MD  
Sample : Q1535-01  
Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

Quant Time: Mar 12 01:25:18 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 05 12:42:45 2025  
Response via : Initial Calibration

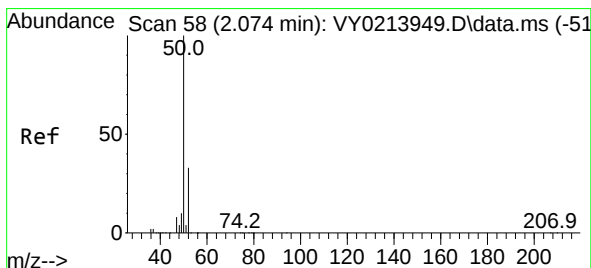
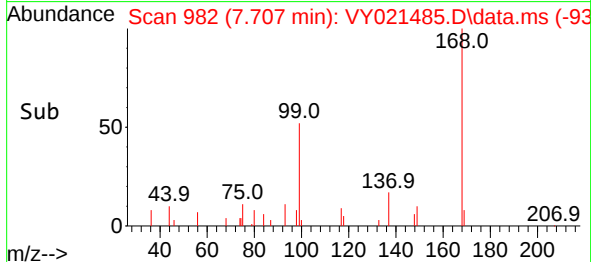
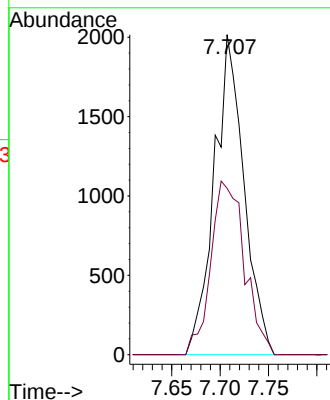
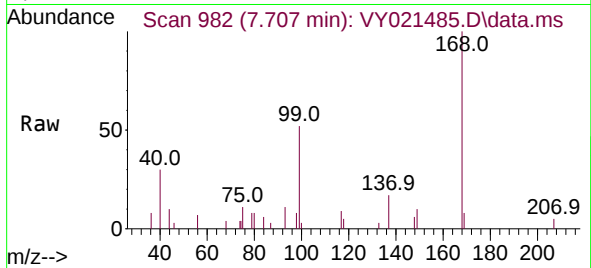




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

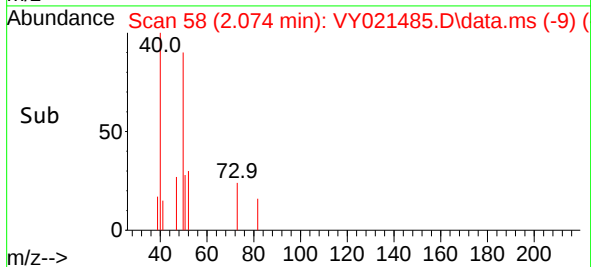
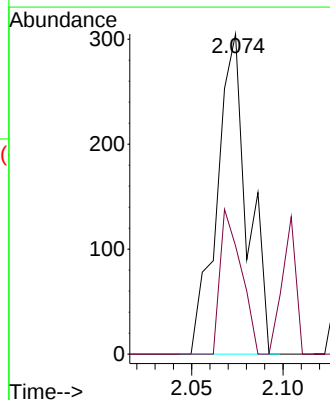
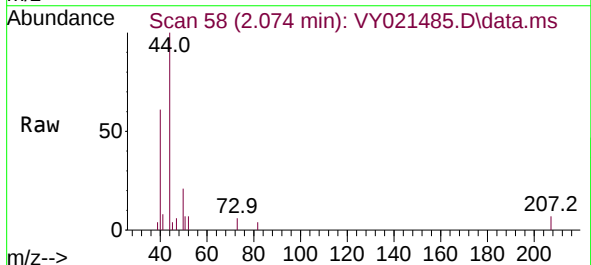
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

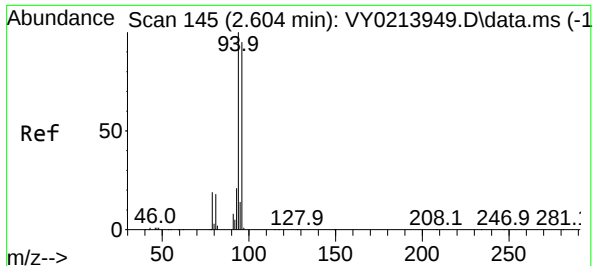
Tgt Ion:168 Resp: 4312  
Ion Ratio Lower Upper  
168 100  
99 52.0 46.0 69.0



#3  
Chloromethane  
Concen: 6.345 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 50 Resp: 354  
Ion Ratio Lower Upper  
50 100  
52 25.8 26.2 39.2#

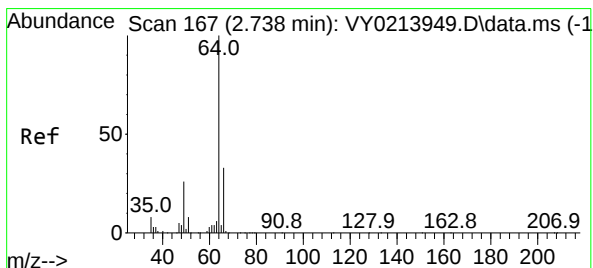
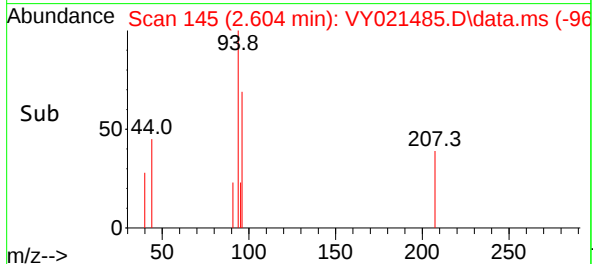
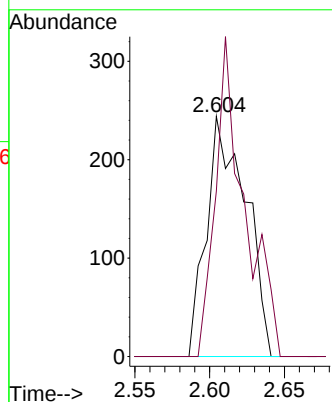
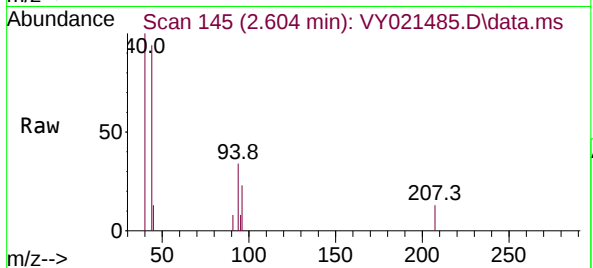




#5  
Bromomethane  
Concen: 10.145 ug/l  
RT: 2.604 min Scan# 145  
Delta R.T. 0.000 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

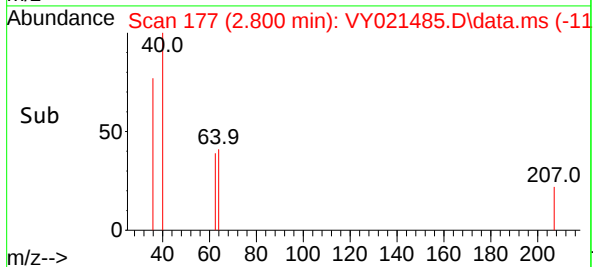
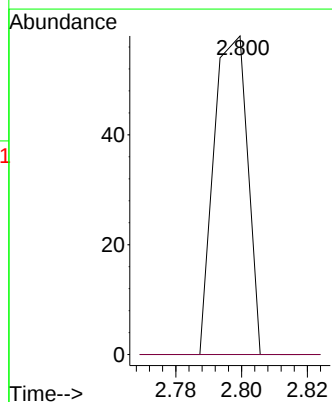
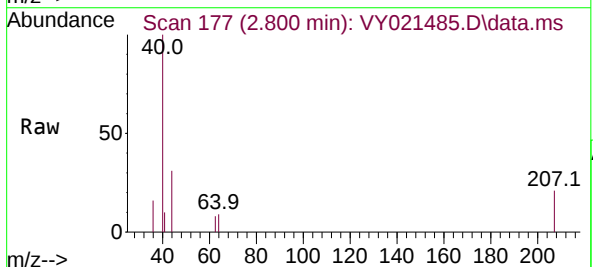
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

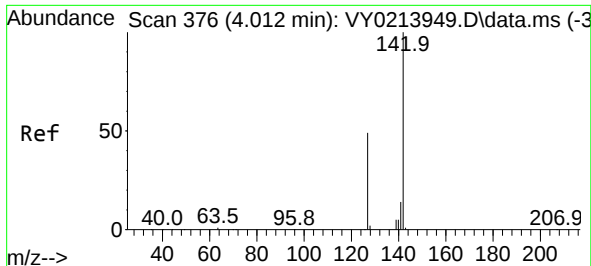
Tgt Ion: 94 Resp: 447  
Ion Ratio Lower Upper  
94 100  
96 68.9 76.3 114.5#



#6  
Chloroethane  
Concen: 1.018 ug/l  
RT: 2.800 min Scan# 177  
Delta R.T. 0.061 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 64 Resp: 41  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.7 40.1#

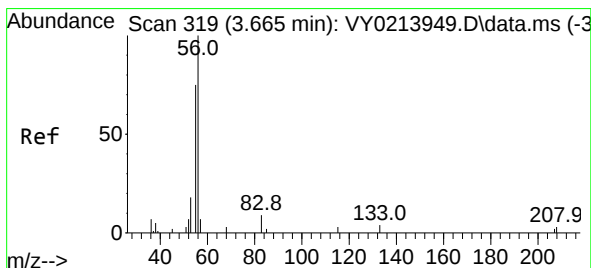
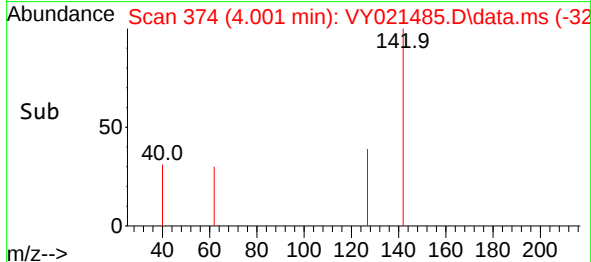
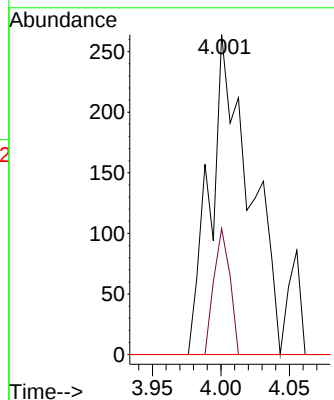
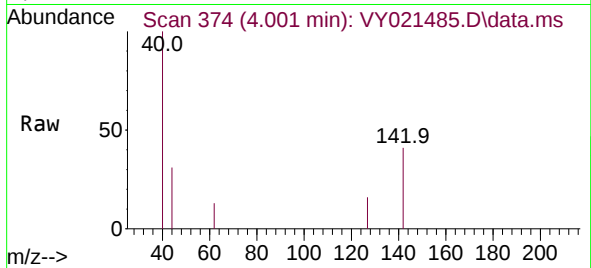




#10  
Methyl Iodide  
Concen: 10.732 ug/l  
RT: 4.001 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

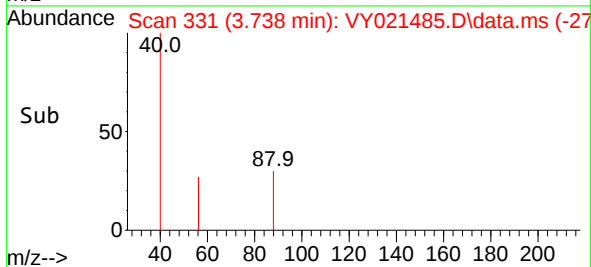
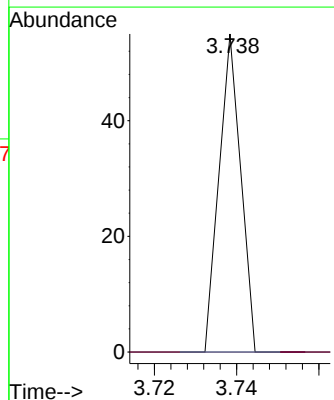
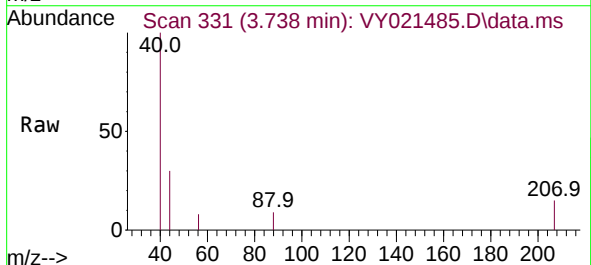
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

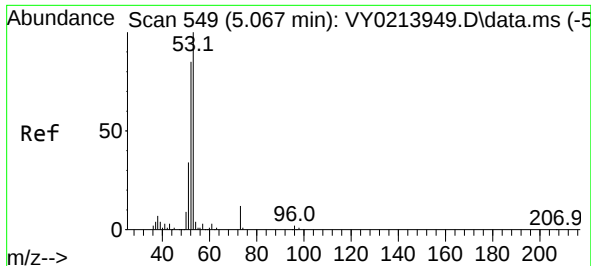
Tgt Ion:142 Resp: 530  
Ion Ratio Lower Upper  
142 100  
127 15.8 39.1 58.7#  
141 0.0 11.8 17.6#



#13  
Acrolein  
Concen: 8.628 ug/l  
RT: 3.738 min Scan# 331  
Delta R.T. 0.073 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 56 Resp: 20  
Ion Ratio Lower Upper  
56 100  
55 0.0 63.4 95.2#

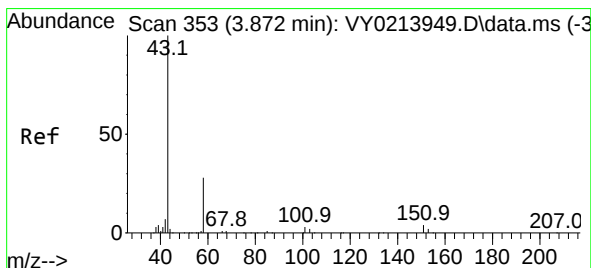
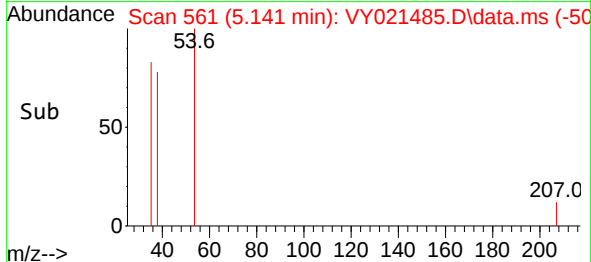
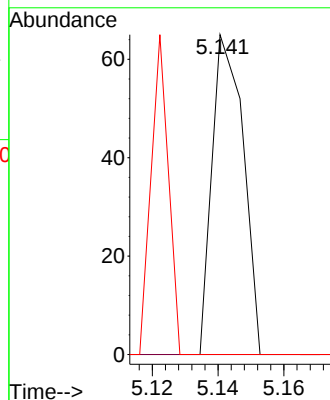
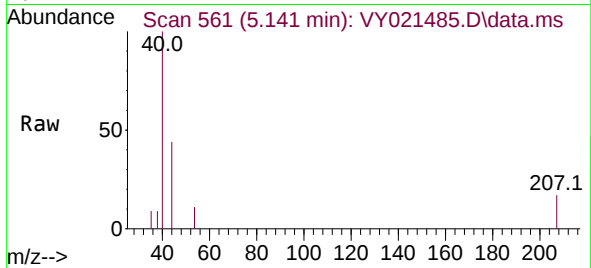




#15  
Acrylonitrile  
Concen: 4.283 ug/l  
RT: 5.141 min Scan# 50  
Delta R.T. 0.074 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

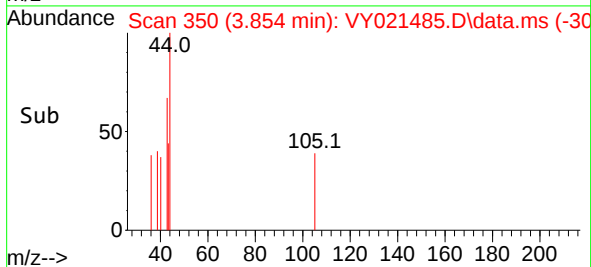
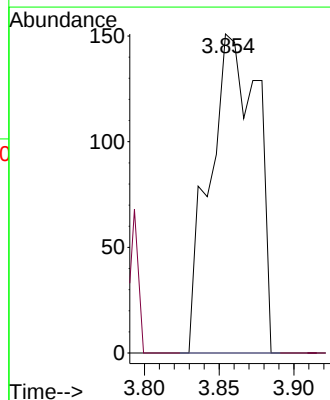
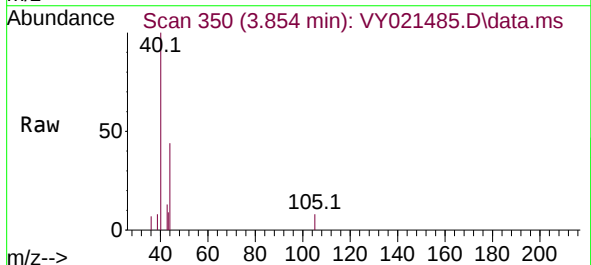
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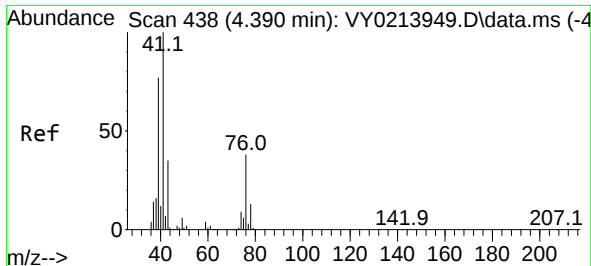
Tgt Ion: 53 Resp: 43  
Ion Ratio Lower Upper  
53 100  
52 0.0 66.3 99.5#  
51 55.8 30.3 45.5#



#16  
Acetone  
Concen: 33.600 ug/l  
RT: 3.854 min Scan# 350  
Delta R.T. -0.018 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 43 Resp: 334  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.1 33.1#

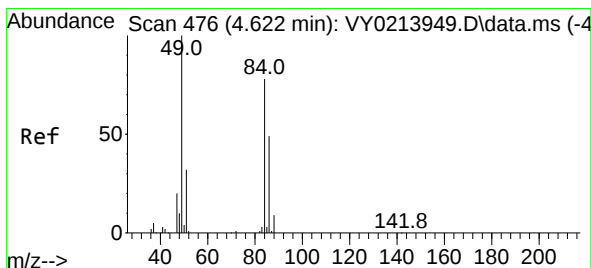
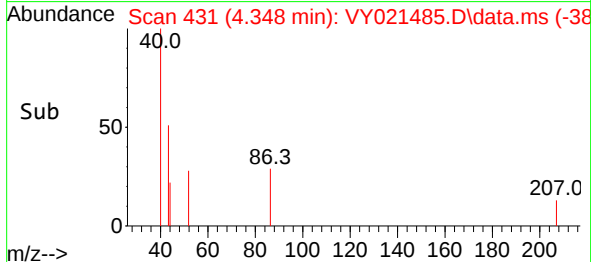
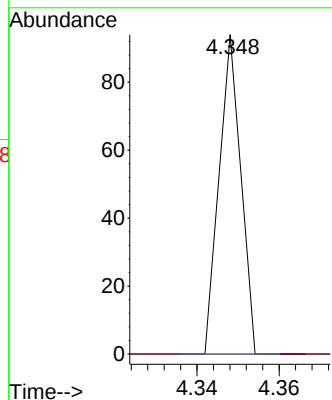
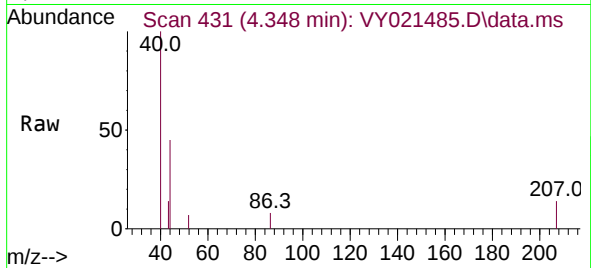




#18  
Methyl Acetate  
Concen: 1.542 ug/l  
RT: 4.348 min Scan# 41  
Delta R.T. -0.042 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

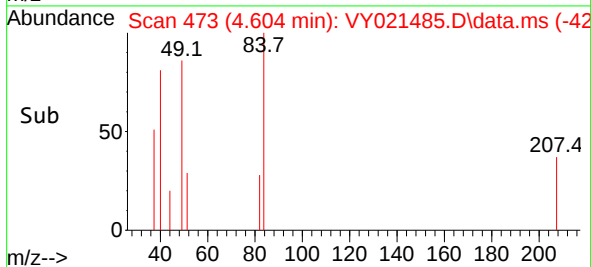
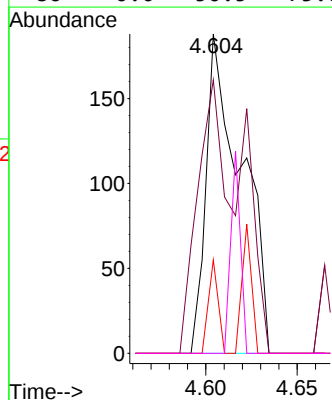
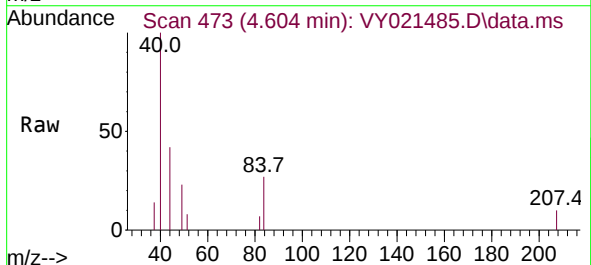
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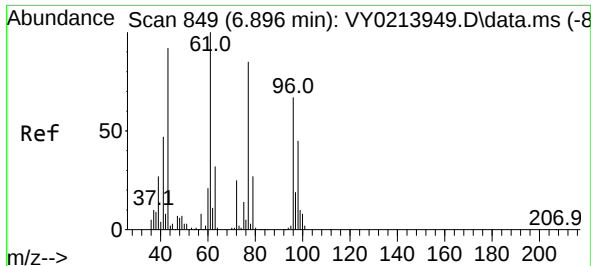
Tgt Ion: 43 Resp: 34  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.0#



#20  
Methylene Chloride  
Concen: 4.849 ug/l  
RT: 4.604 min Scan# 473  
Delta R.T. -0.018 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 84 Resp: 253  
Ion Ratio Lower Upper  
84 100  
49 85.6 102.0 153.0#  
51 29.3 33.0 49.6#  
86 0.0 50.5 75.7#

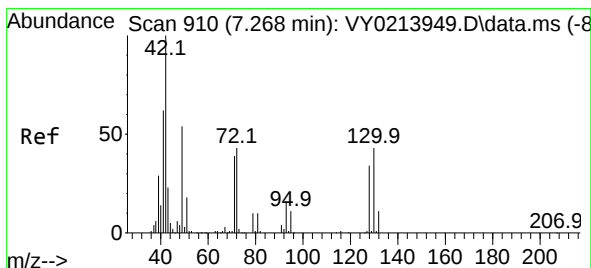
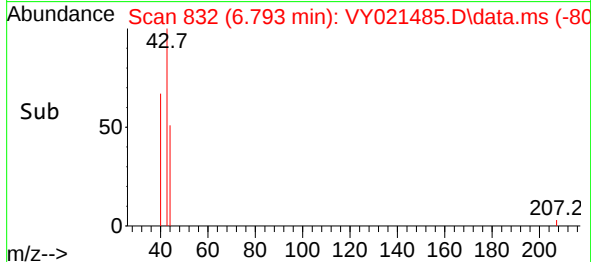
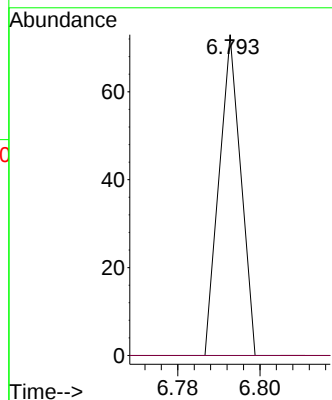
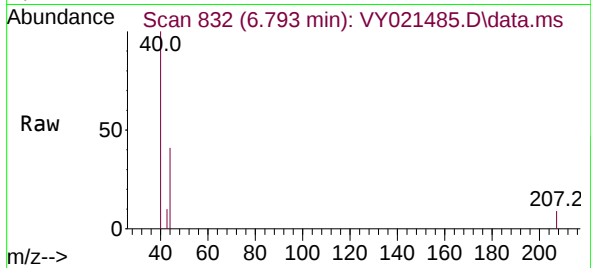




#25  
2-Butanone  
Concen: 1.964 ug/l  
RT: 6.793 min Scan# 81  
Delta R.T. -0.103 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

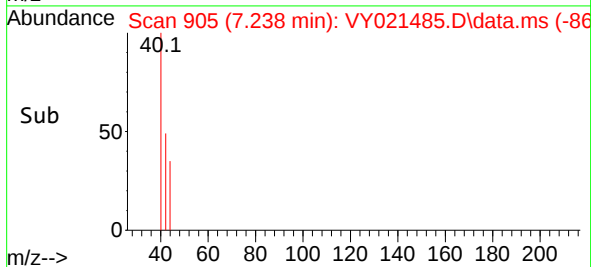
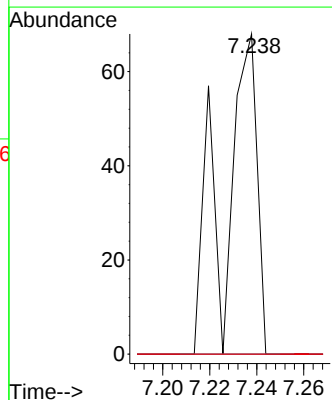
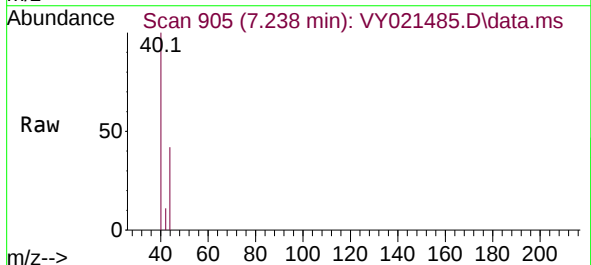
Instrument :  
MSVOA\_Y  
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SU-03-03102025

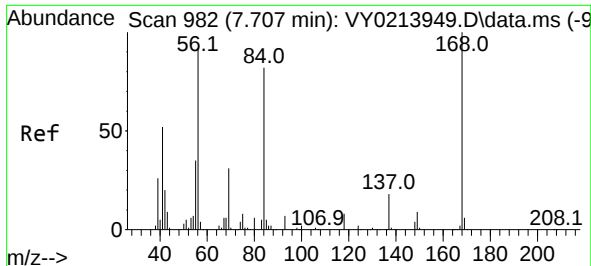
Tgt Ion: 43 Resp: 27  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.4 32.0#



#29  
Tetrahydrofuran  
Concen: 7.775 ug/l  
RT: 7.238 min Scan# 905  
Delta R.T. -0.030 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 42 Resp: 66  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.8 52.2#  
71 0.0 32.6 48.8#

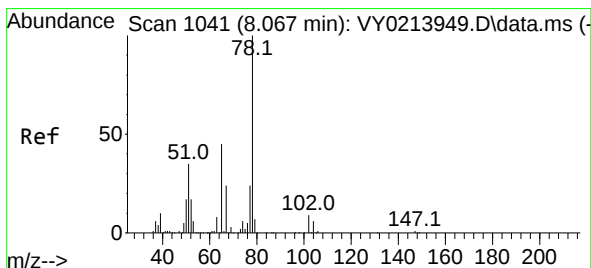
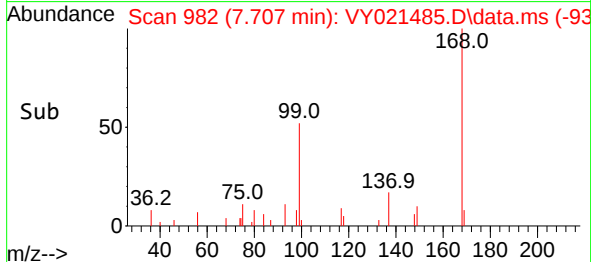
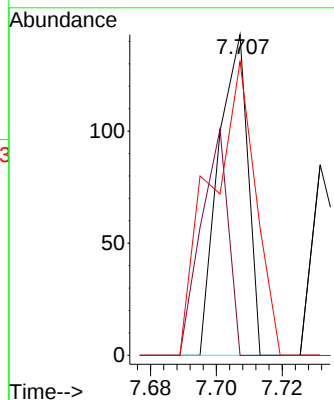
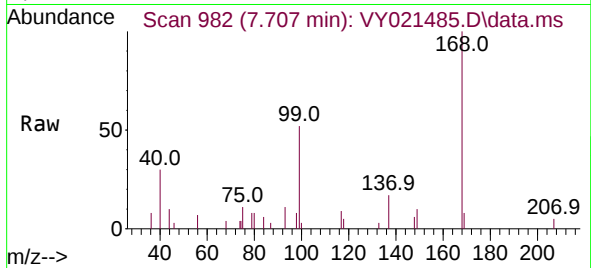




#31  
Cyclohexane  
Concen: 1.043 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

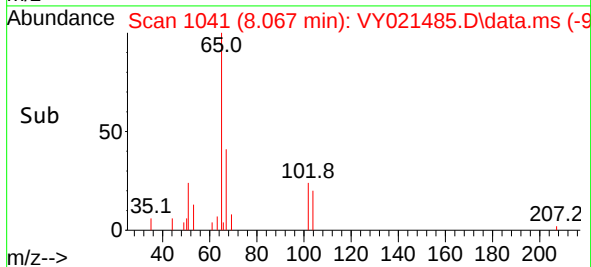
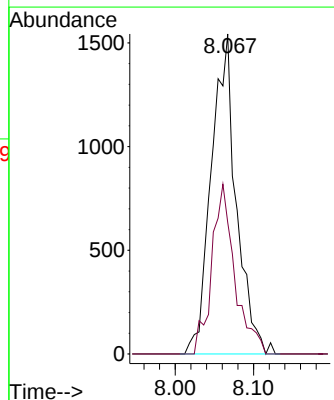
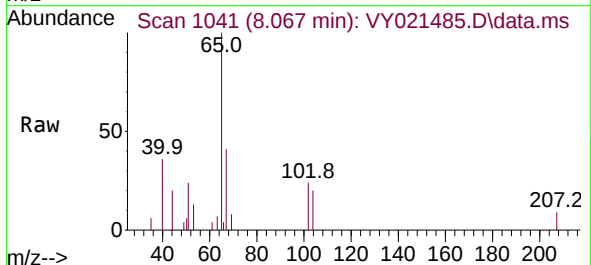
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

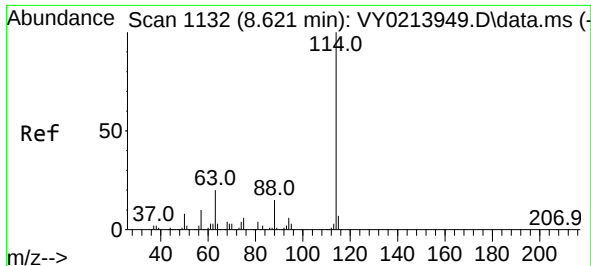
Tgt Ion: 56 Resp: 89  
Ion Ratio Lower Upper  
56 100  
69 0.0 27.0 40.4#  
84 91.6 71.1 106.7



#33  
1,2-Dichloroethane-d4  
Concen: 75.107 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. 0.000 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 65 Resp: 3423  
Ion Ratio Lower Upper  
65 100  
67 48.7 0.0 102.8

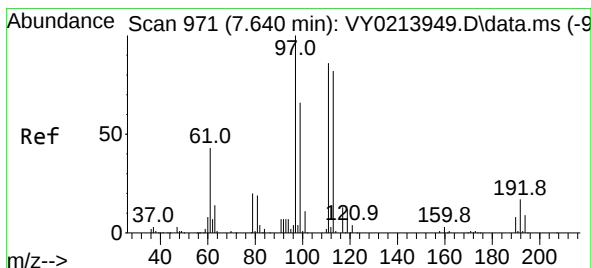
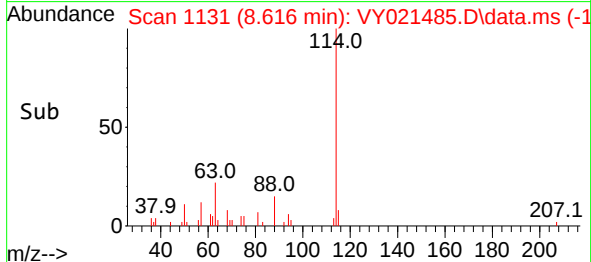
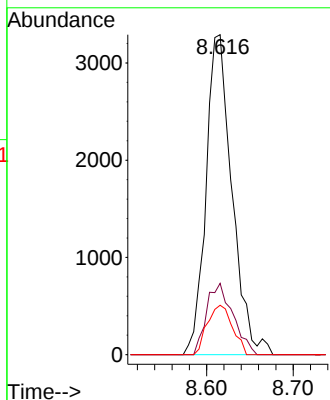
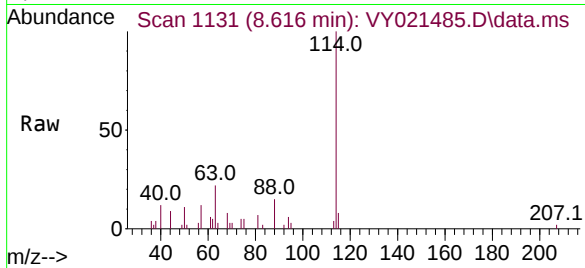




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1132  
Delta R.T. -0.006 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

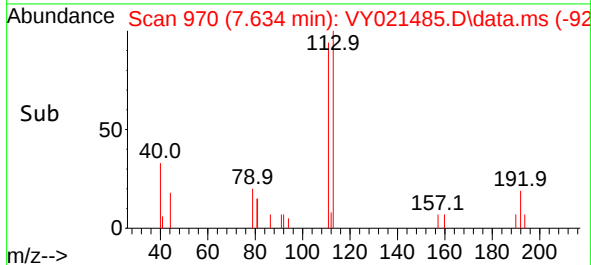
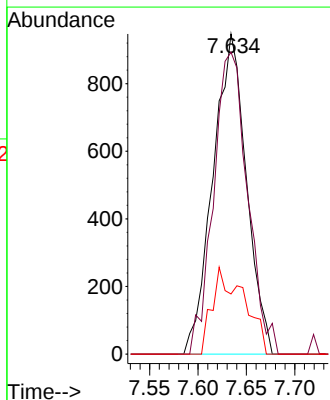
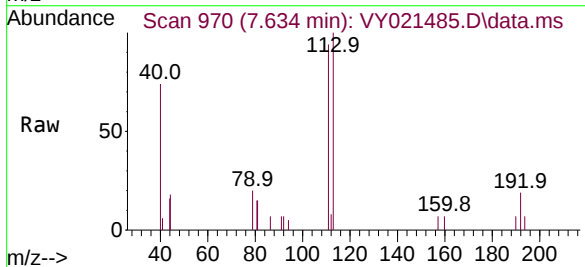
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

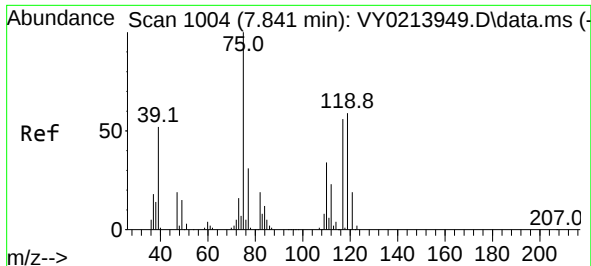
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:114 | Resp: | 6860     |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 22.3  | 0.0 40.8 |
| 88          | 15.5  | 0.0 30.8 |



#35  
Dibromofluoromethane  
Concen: 50.541 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. -0.006 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 2279       |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 95.7  | 82.0 123.0 |
| 192         | 25.8  | 15.9 23.9  |

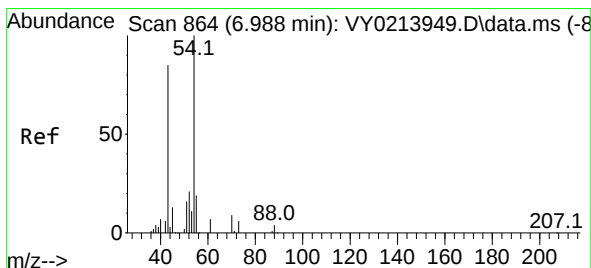
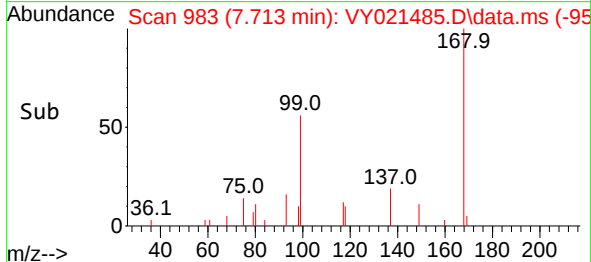
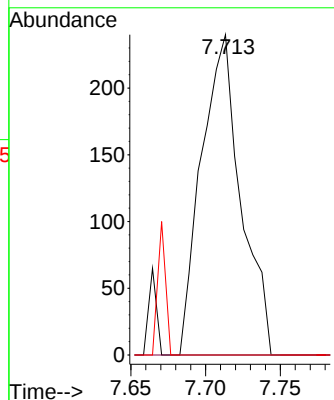
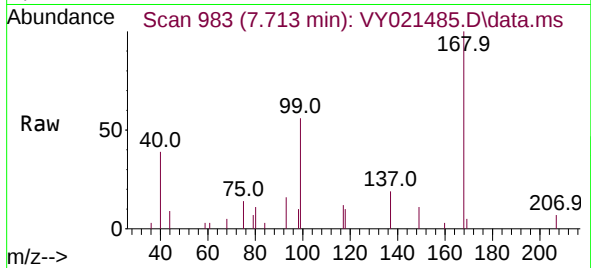




#36  
 1,1-Dichloropropene  
 Concen: 6.248 ug/l  
 RT: 7.713 min Scan# 91  
 Delta R.T. -0.128 min  
 Lab File: VY021485.D  
 Acq: 11 Mar 2025 14:45

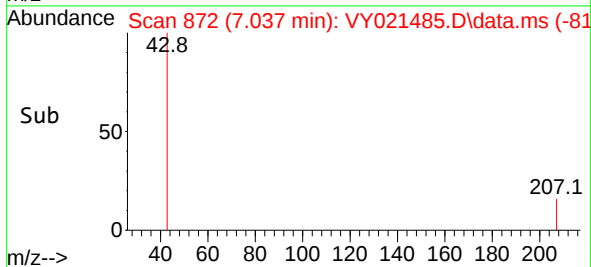
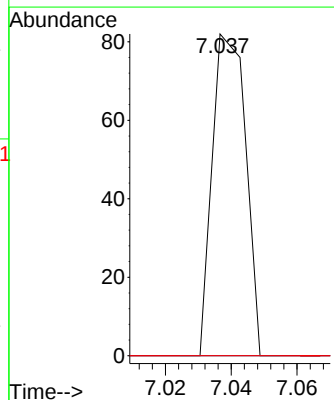
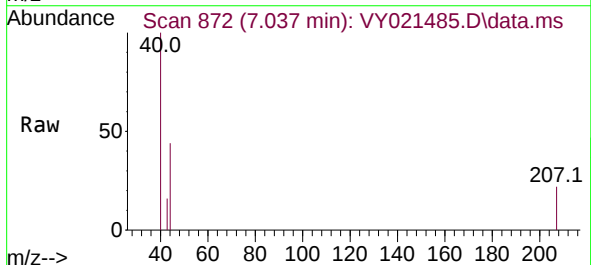
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SU-03-03102025

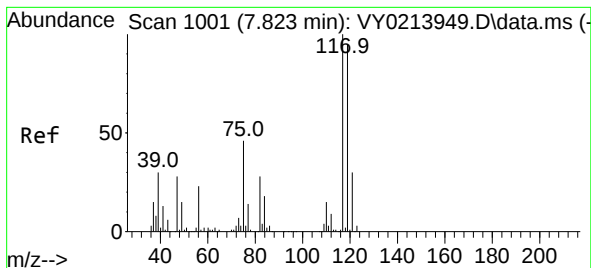
Tgt Ion: 75 Resp: 441  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 17.3 51.7#  
 77 0.0 25.4 38.2#



#37  
 Ethyl Acetate  
 Concen: 1.859 ug/l  
 RT: 7.037 min Scan# 872  
 Delta R.T. 0.049 min  
 Lab File: VY021485.D  
 Acq: 11 Mar 2025 14:45

Tgt Ion: 43 Resp: 58  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 11.4 17.0#  
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: 5.642 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY021485.D

Acq: 11 Mar 2025 14:45

Instrument :

MSVOA\_Y

ClientSampleId :

SU-03-03102025

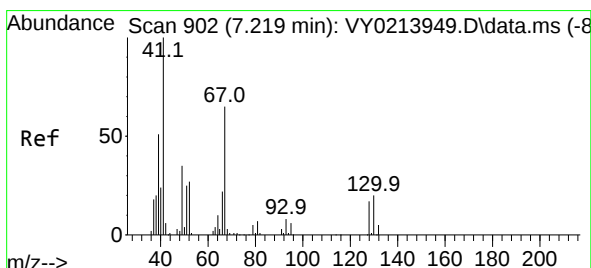
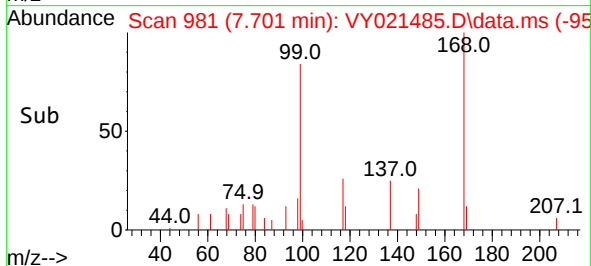
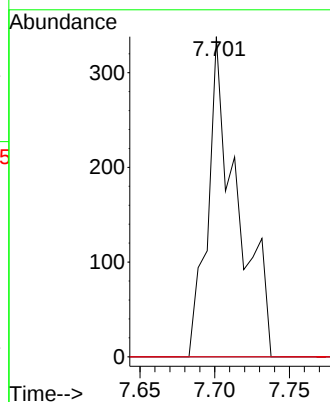
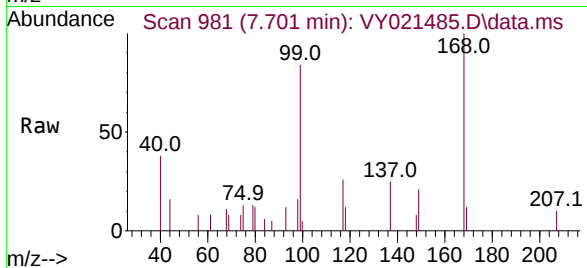
Tgt Ion:117 Resp: 458

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#



#41

Methacrylonitrile

Concen: 1.648 ug/l

RT: 7.189 min Scan# 897

Delta R.T. -0.030 min

Lab File: VY021485.D

Acq: 11 Mar 2025 14:45

Tgt Ion: 41 Resp: 28

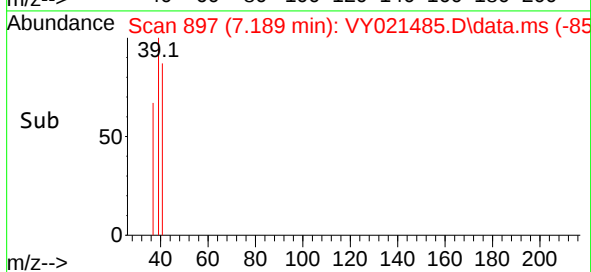
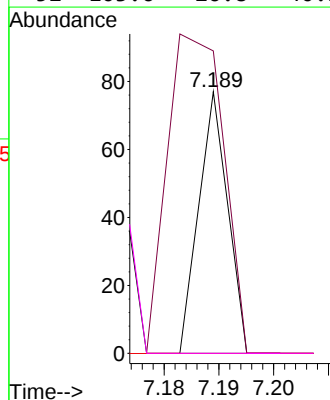
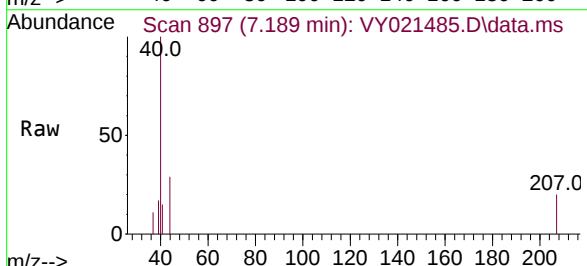
Ion Ratio Lower Upper

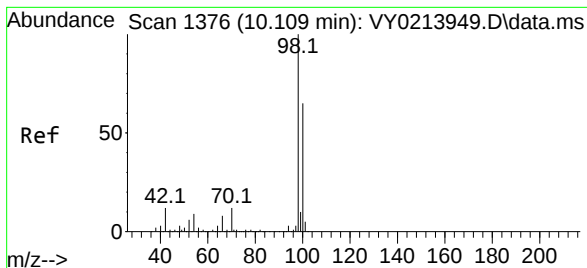
41 100

39 239.3 35.0 52.6#

67 0.0 61.2 91.8#

52 103.6 26.8 40.2#

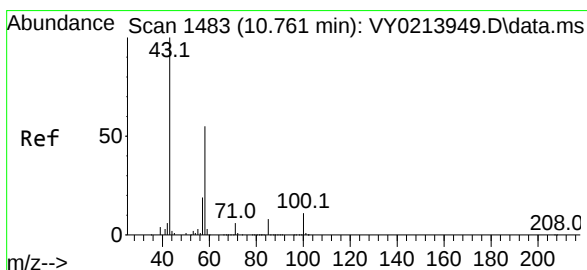
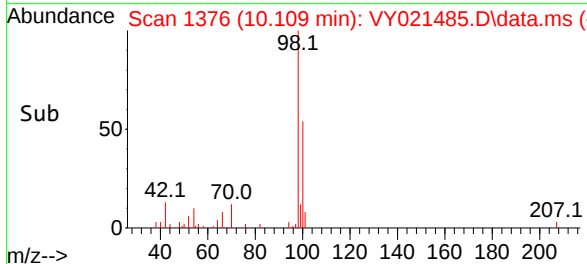
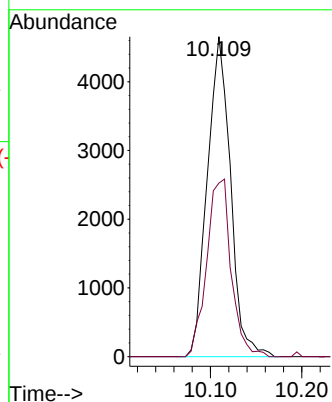
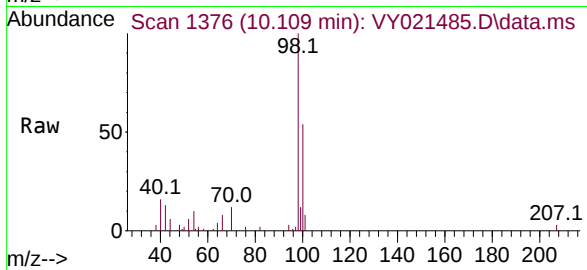




#50  
Toluene-d8  
Concen: 48.081 ug/l  
RT: 10.109 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

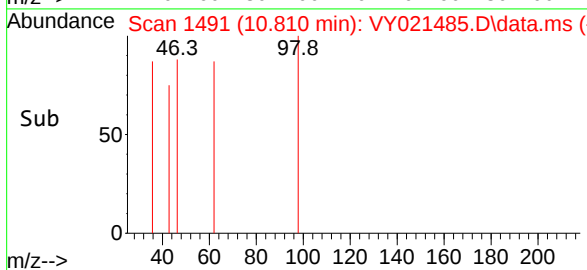
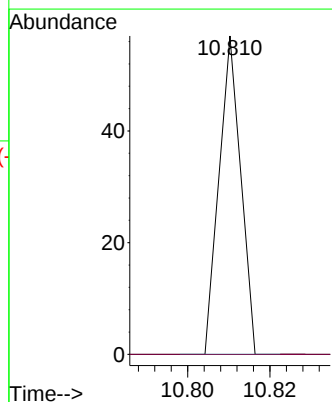
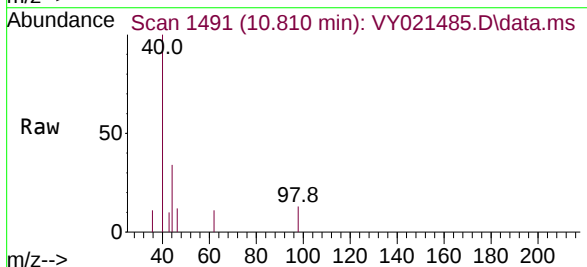
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

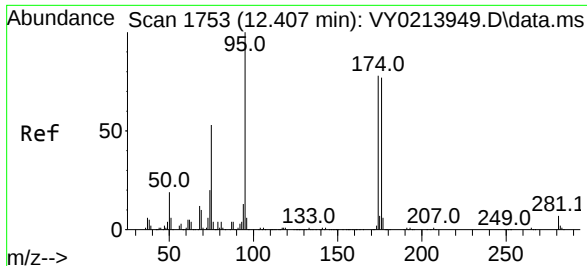
Tgt Ion: 98 Resp: 8209  
Ion Ratio Lower Upper  
98 100  
100 58.5 52.1 78.1



#59  
2-Hexanone  
Concen: 1.016 ug/l  
RT: 10.810 min Scan# 1491  
Delta R.T. 0.049 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 43 Resp: 21  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.3 81.8#

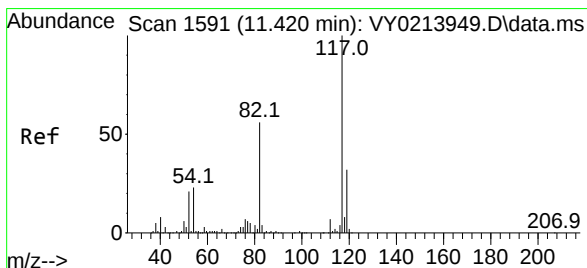
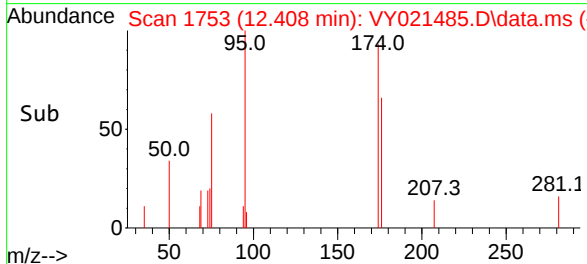
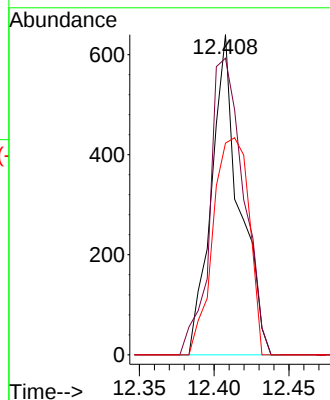
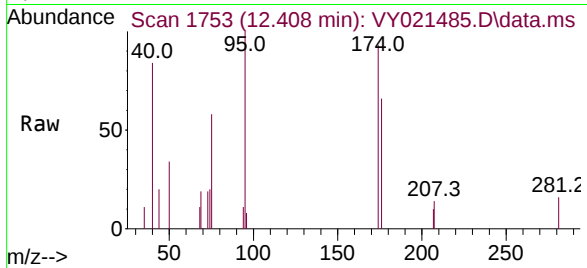




#62  
4-Bromofluorobenzene  
Concen: 14.464 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

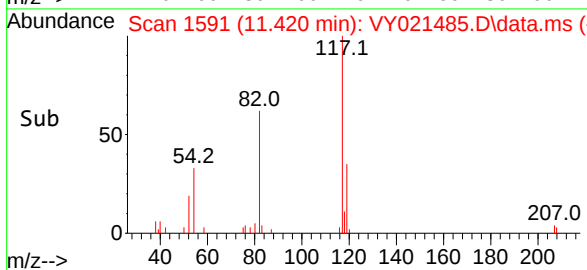
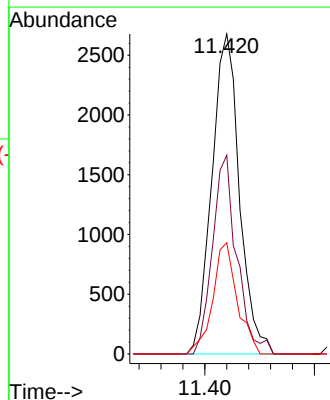
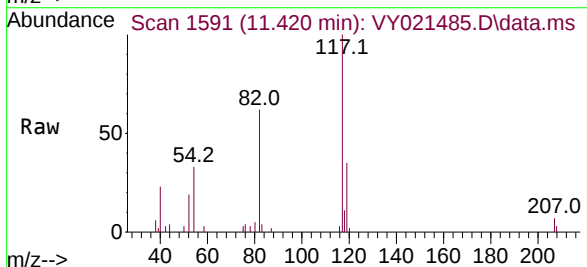
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

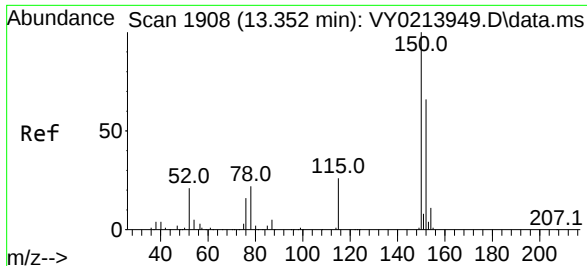
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 840   |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 111.2 | 0.0   | 165.0 |
| 176      | 86.3  | 0.0   | 160.0 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.000 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 4681  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 62.1  | 44.6  | 67.0  |
| 119      | 34.8  | 25.4  | 38.0  |

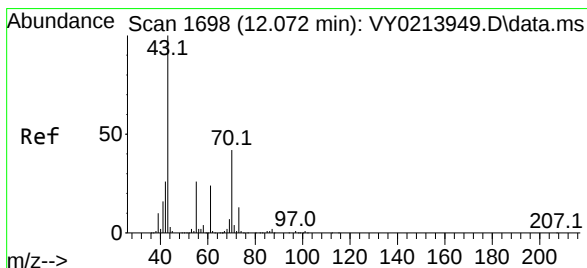
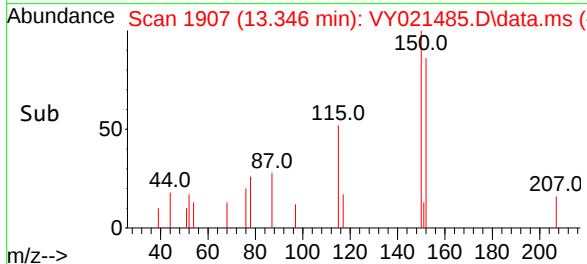
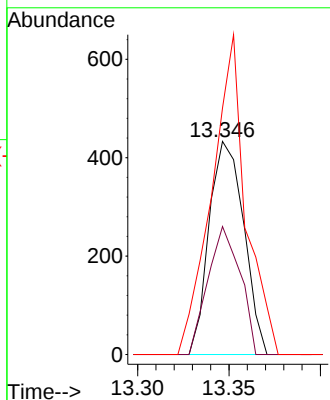
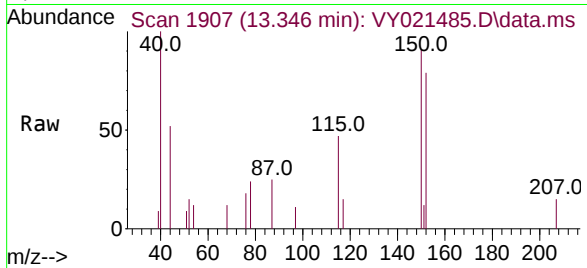




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1908  
Delta R.T. -0.006 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

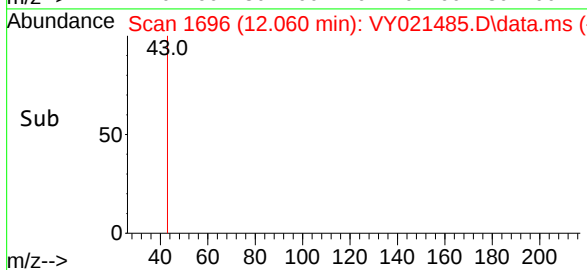
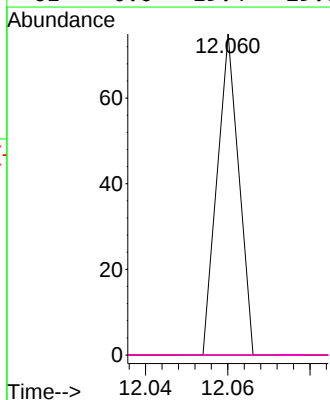
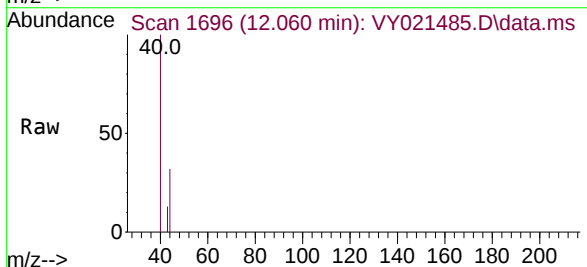
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

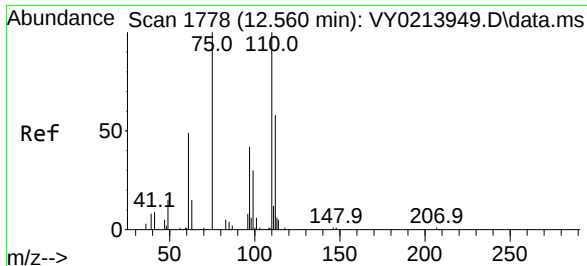
Tgt Ion:152 Resp: 571  
Ion Ratio Lower Upper  
152 100  
115 55.9 29.0 87.0  
150 146.9 0.0 347.2



#74  
N-ethyl acetate  
Concen: 2.764 ug/l  
RT: 12.060 min Scan# 1696  
Delta R.T. -0.012 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 43 Resp: 27  
Ion Ratio Lower Upper  
43 100  
70 0.0 34.6 51.8#  
55 0.0 21.1 31.7#  
61 0.0 19.4 29.0#

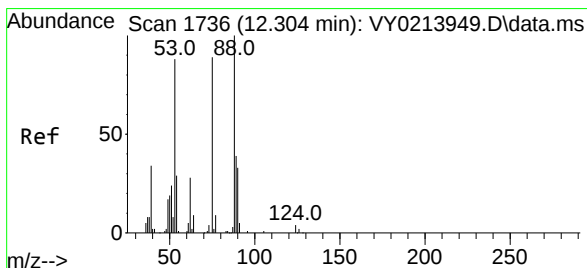
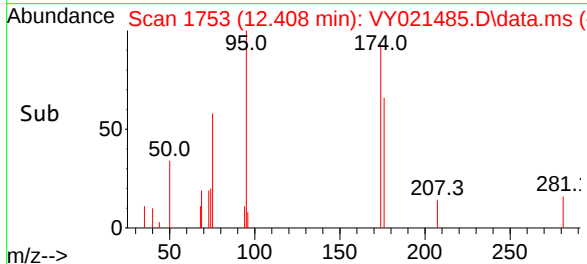
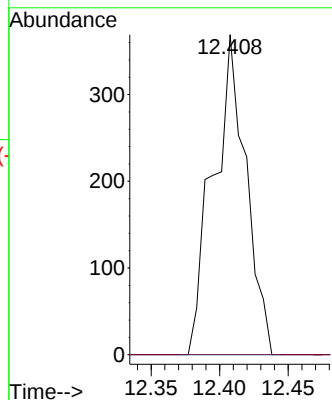
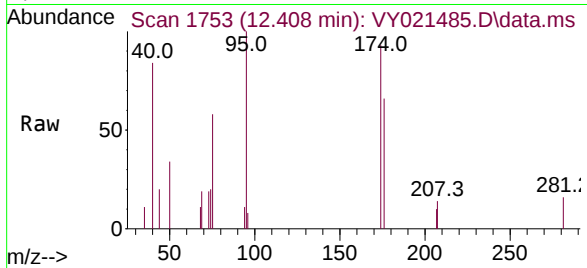




#76  
1,2,3-Trichloropropane  
Concen: 106.884 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. -0.152 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

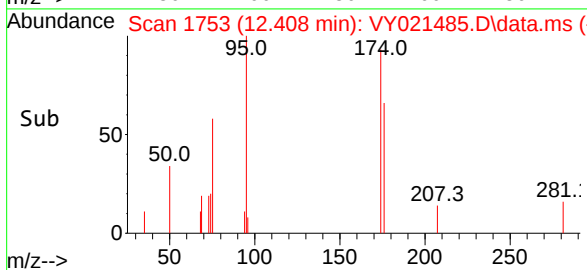
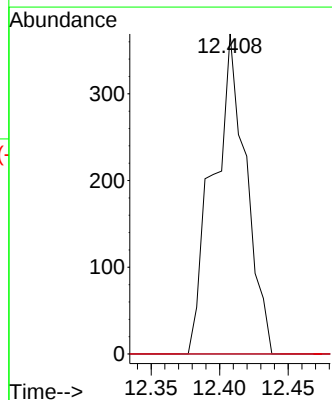
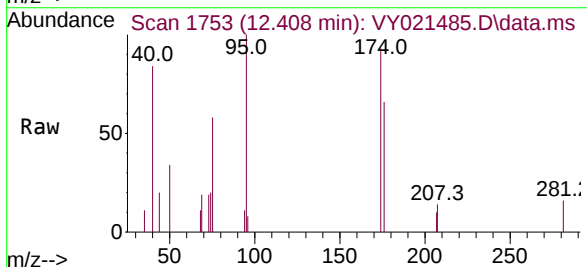
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SU-03-03102025

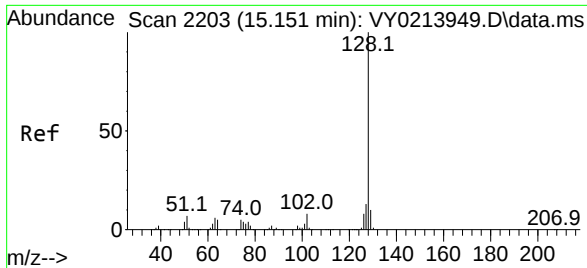
Tgt Ion: 75 Resp: 615  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 242.982 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.104 min  
Lab File: VY021485.D  
Acq: 11 Mar 2025 14:45

Tgt Ion: 75 Resp: 615  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.0 121.4#  
89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 4.023 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.012 min

Lab File: VY021485.D

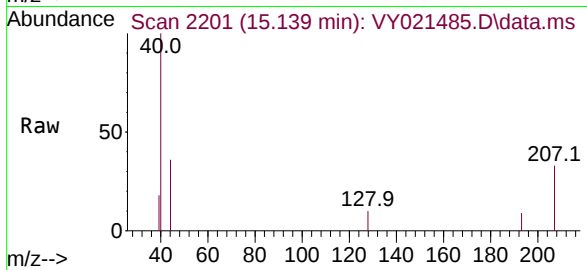
Acq: 11 Mar 2025 14:45

Instrument :

MSVOA\_Y

ClientSampleId :

SU-03-03102025



Tgt Ion:128 Resp: 40

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

