

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030725\  
 Data File : VY021463.D  
 Acq On : 07 Mar 2025 16:02  
 Operator : SY/MD  
 Sample : Q1514-03  
 Misc : 6.94g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ENV-105-SB02

Quant Time: Mar 07 22:02:28 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

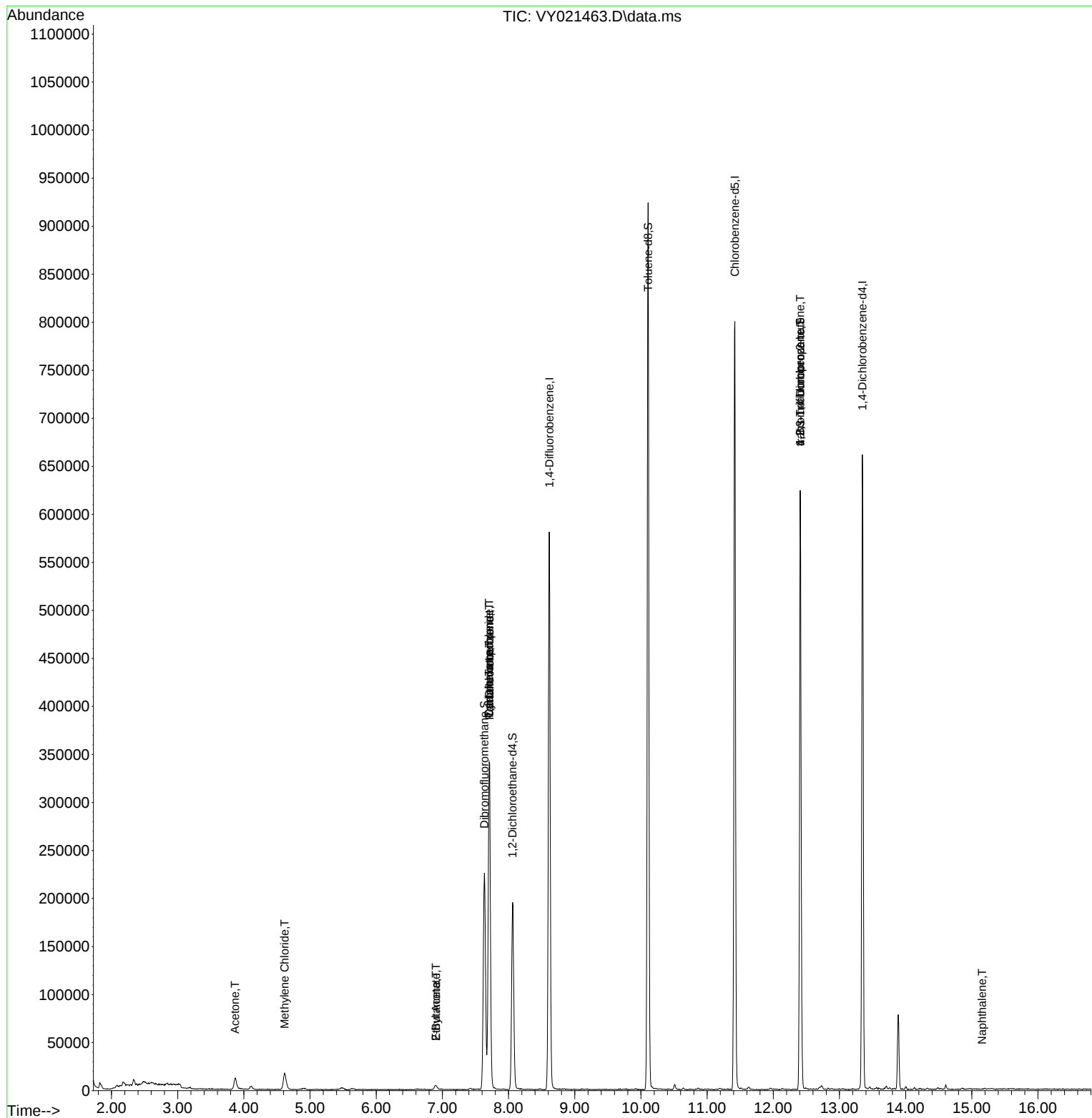
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.713  | 168   | 257690   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.615  | 114   | 475421   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420 | 117   | 422963   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346 | 152   | 163964   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.060  | 65    | 154784   | 56.830    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 113.660% |
| 35) Dibromofluoromethane      | 7.634  | 113   | 158546   | 50.735    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 101.460% |
| 50) Toluene-d8                | 10.109 | 98    | 579949   | 49.014    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 98.020%  |
| 62) 4-Bromofluorobenzene      | 12.407 | 95    | 175139   | 43.514    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 87.020%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.841  | 59    | 326      | Below Cal | #      | 72       |
| 16) Acetone                   | 3.866  | 43    | 21125    | 35.561    | ug/l   | 94       |
| 20) Methylene Chloride        | 4.616  | 84    | 11244    | 3.606     | ug/l   | 97       |
| 25) 2-Butanone                | 6.902  | 43    | 7253     | 8.826     | ug/l   | 90       |
| 31) Cyclohexane               | 7.707  | 56    | 6009     | 1.178     | ug/l # | 4        |
| 36) 1,1-Dichloropropene       | 7.707  | 75    | 21985    | 4.494     | ug/l # | 51       |
| 37) Ethyl Acetate             | 6.902  | 43    | 7253     | 3.355     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 27575    | 4.902     | ug/l # | 18       |
| 76) 1,2,3-Trichloropropane    | 12.407 | 75    | 95430    | 57.758    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.407 | 75    | 95430    | 131.302   | ug/l # | 9        |
| 95) Naphthalene               | 15.157 | 128   | 475      | 1.556     | ug/l # | 85       |
| -----                         |        |       |          |           |        |          |

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

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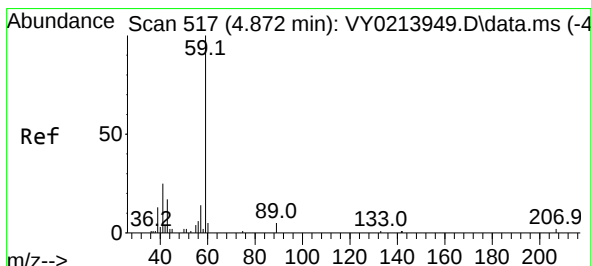
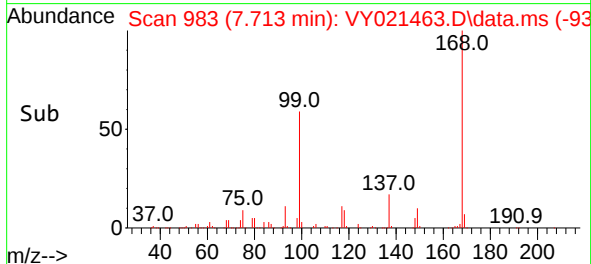
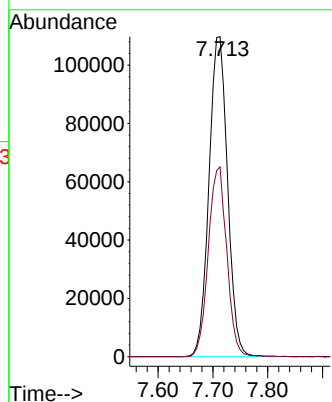
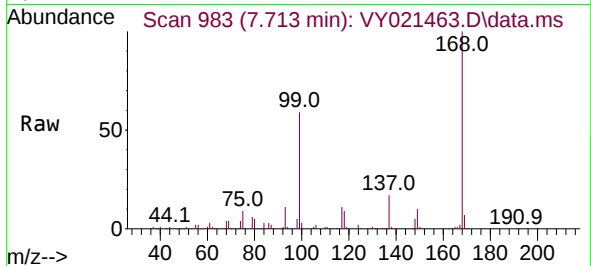




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

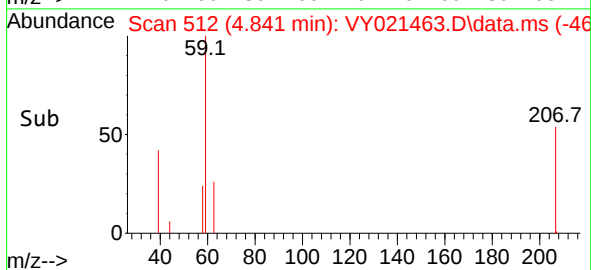
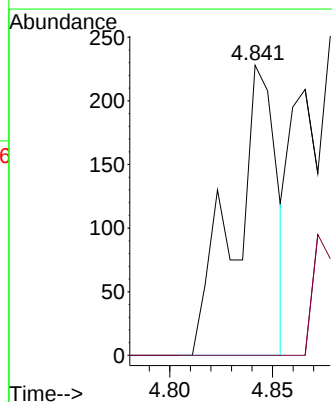
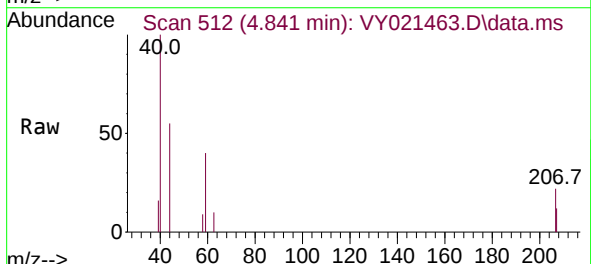
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-105-SB02

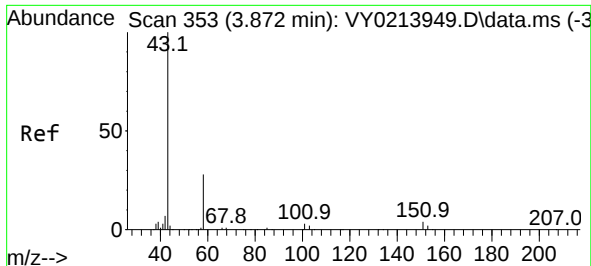
Tgt Ion:168 Resp: 257690  
Ion Ratio Lower Upper  
168 100  
99 59.4 46.0 69.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.841 min Scan# 512  
Delta R.T. -0.031 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

Tgt Ion: 59 Resp: 326  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

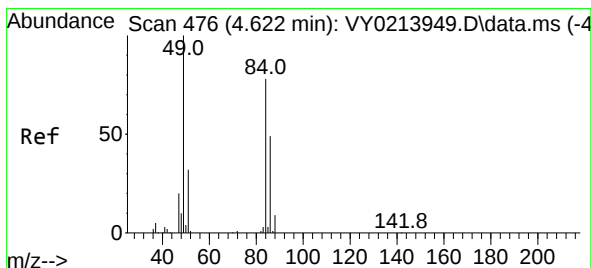
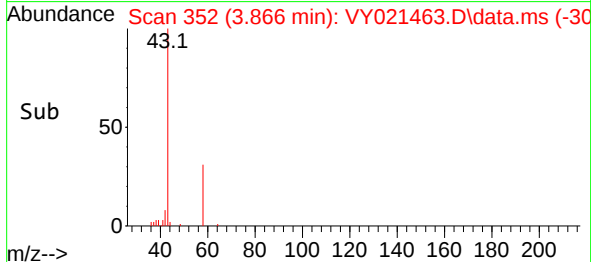
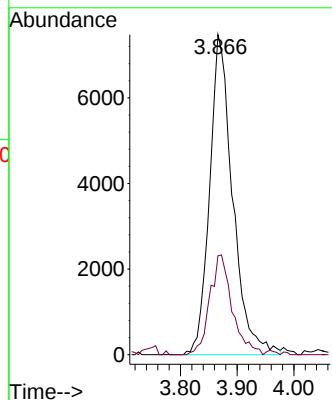
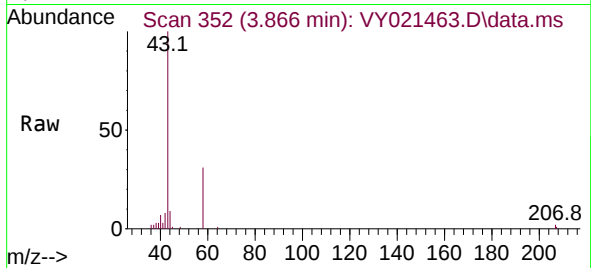




#16  
Acetone  
Concen: 35.561 ug/l  
RT: 3.866 min Scan# 311  
Delta R.T. -0.006 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

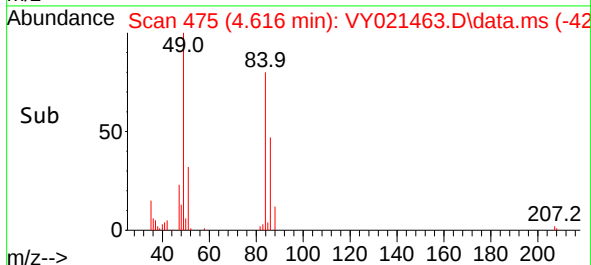
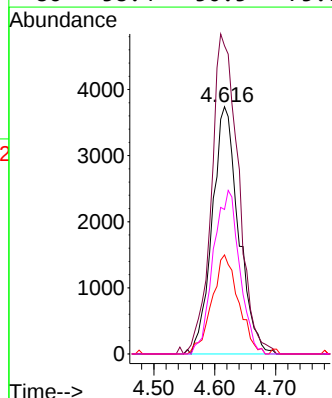
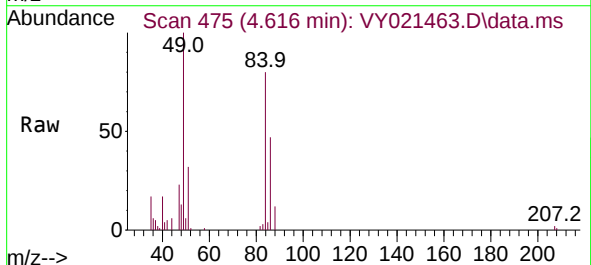
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-105-SB02

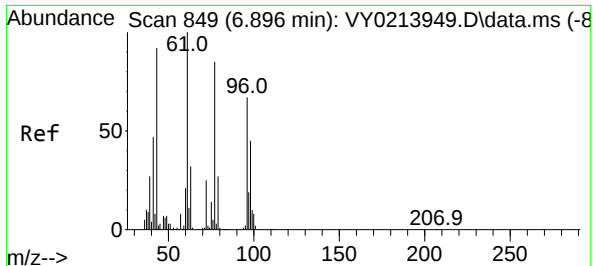
Tgt Ion: 43 Resp: 21125  
Ion Ratio Lower Upper  
43 100  
58 30.9 22.1 33.1



#20  
Methylene Chloride  
Concen: 3.606 ug/l  
RT: 4.616 min Scan# 475  
Delta R.T. -0.006 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

Tgt Ion: 84 Resp: 11244  
Ion Ratio Lower Upper  
84 100  
49 124.6 102.0 153.0  
51 40.0 33.0 49.6  
86 58.4 50.5 75.7





#25

2-Butanone

Concen: 8.826 ug/l

RT: 6.902 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

Instrument :

MSVOA\_Y

ClientSampleId :

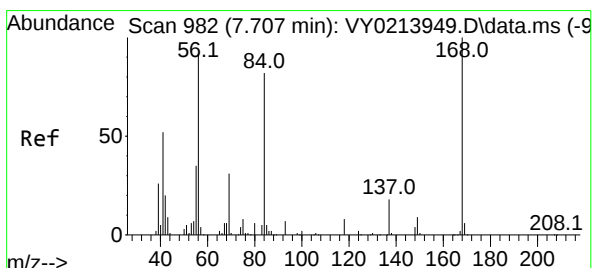
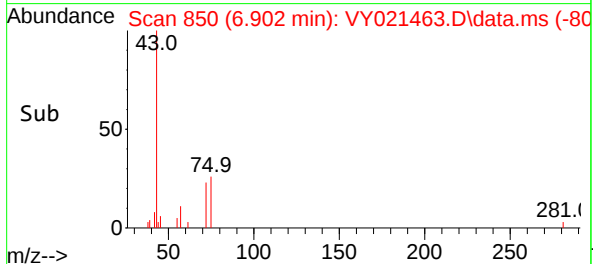
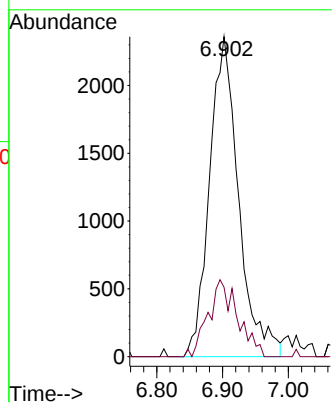
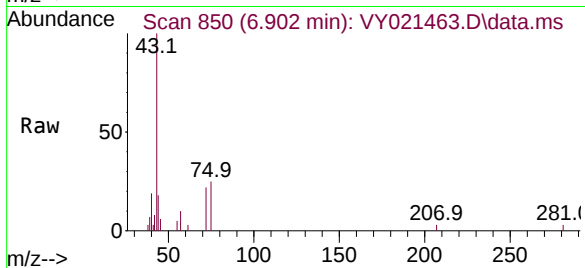
ENV-105-SB02

Tgt Ion: 43 Resp: 7253

Ion Ratio Lower Upper

43 100

72 21.7 21.4 32.0



#31

Cyclohexane

Concen: 1.178 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.000 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

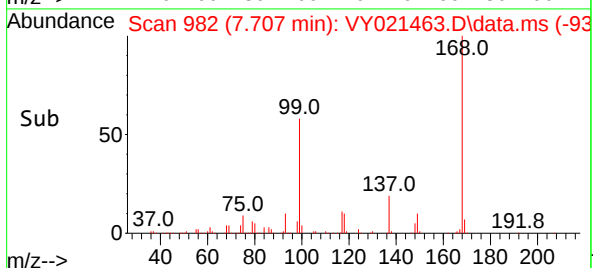
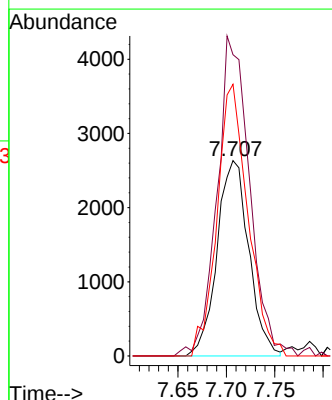
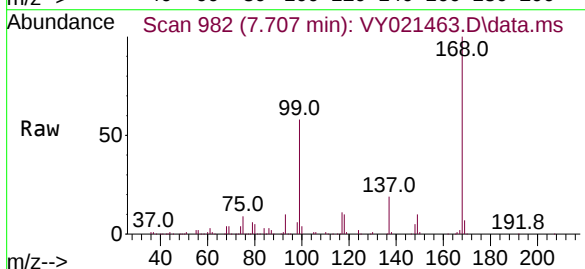
Tgt Ion: 56 Resp: 6009

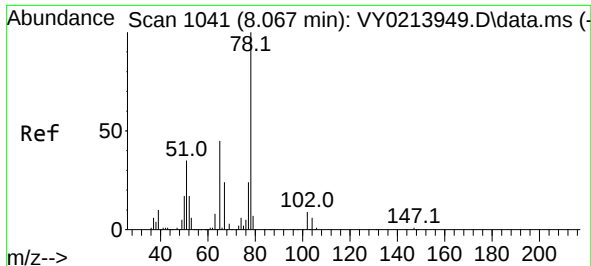
Ion Ratio Lower Upper

56 100

69 151.7 27.0 40.4#

84 139.0 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 56.830 ug/l

RT: 8.060 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

Instrument :

MSVOA\_Y

ClientSampleId :

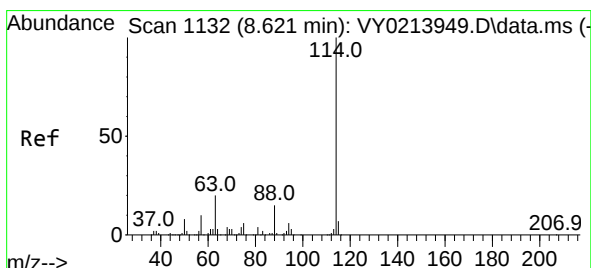
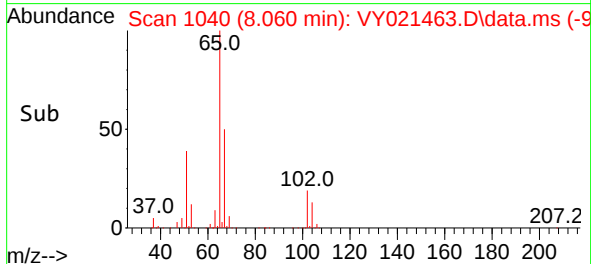
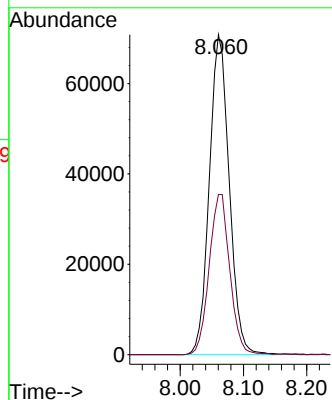
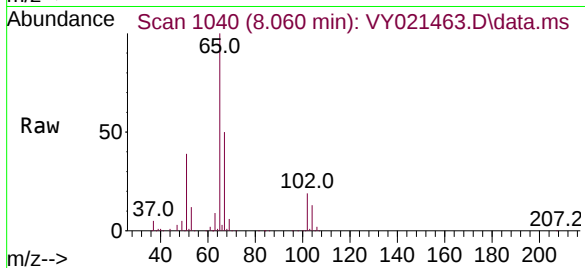
ENV-105-SB02

Tgt Ion: 65 Resp: 154784

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

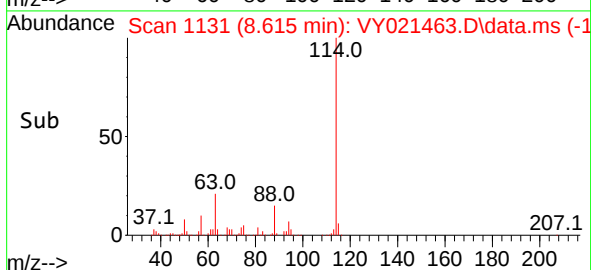
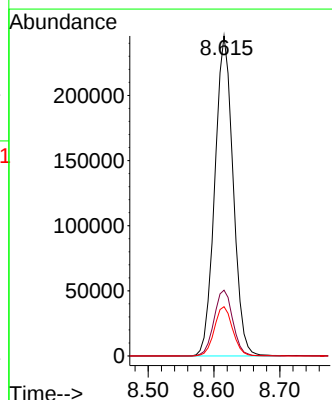
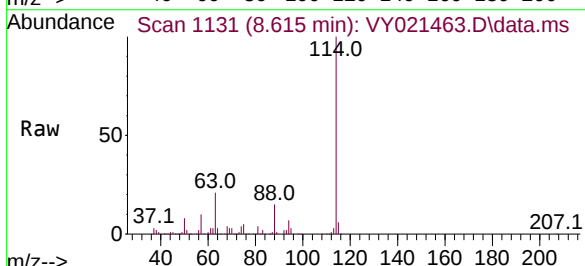
Tgt Ion: 114 Resp: 475421

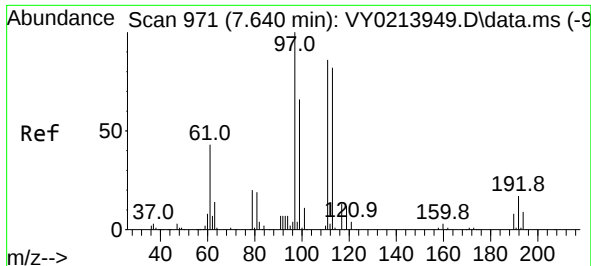
Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.735 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021463.D

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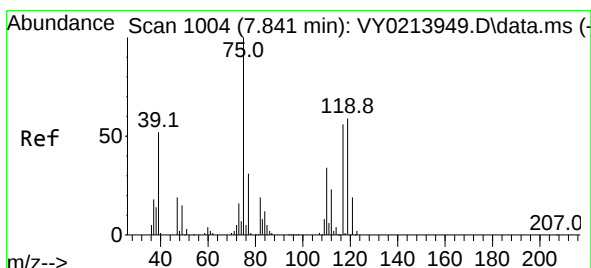
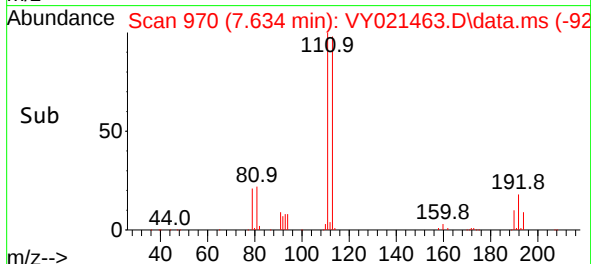
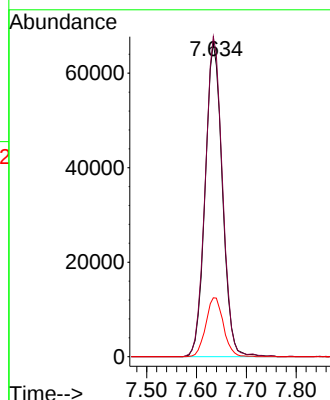
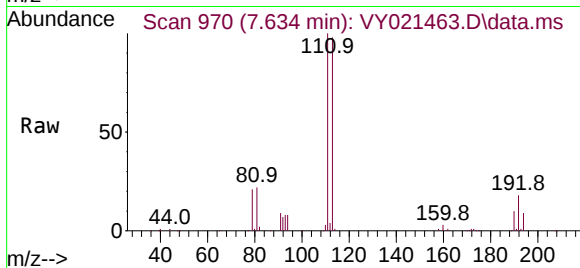
Tgt Ion:113 Resp: 158546

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

192 19.3 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.494 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

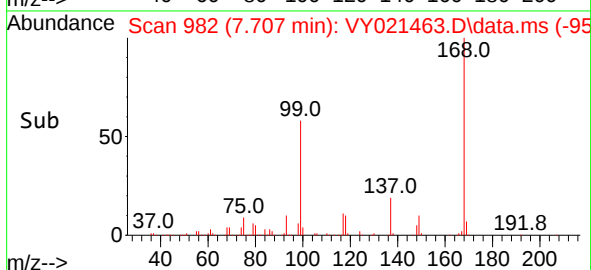
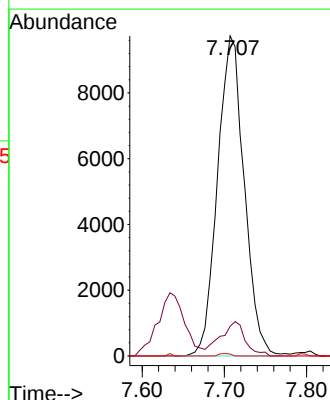
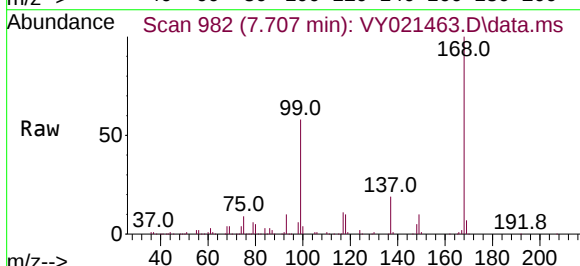
Tgt Ion: 75 Resp: 21985

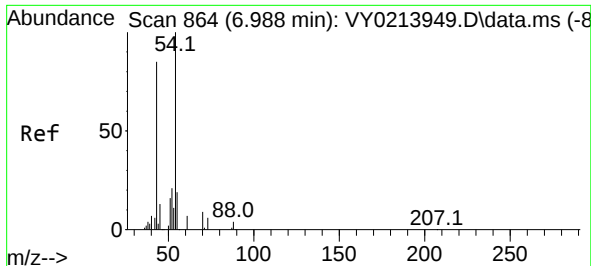
Ion Ratio Lower Upper

75 100

110 10.0 17.3 51.7#

77 0.3 25.4 38.2#





#37

Ethyl Acetate

Concen: 3.355 ug/l

RT: 6.902 min Scan# 81

Delta R.T. -0.085 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

Instrument :

MSVOA\_Y

ClientSampleId :

ENV-105-SB02

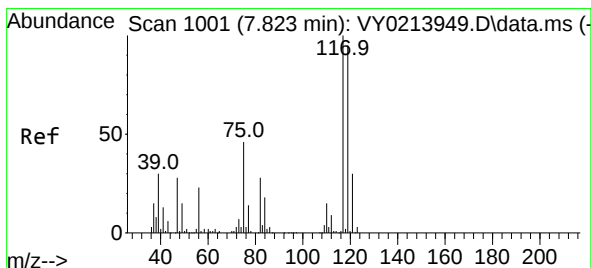
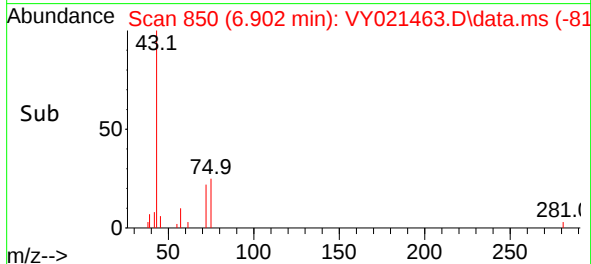
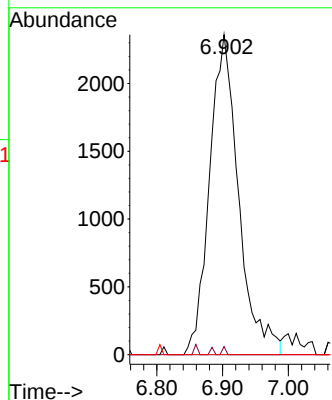
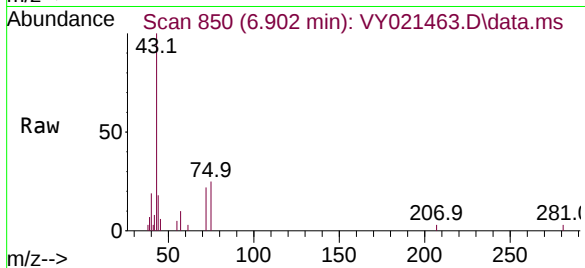
Tgt Ion: 43 Resp: 7253

Ion Ratio Lower Upper

43 100

61 0.3 11.4 17.0#

70 0.0 8.2 12.2#



#38

Carbon Tetrachloride

Concen: 4.902 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

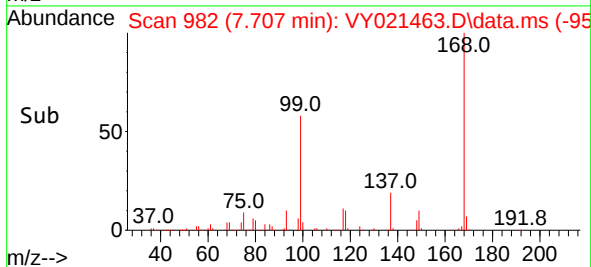
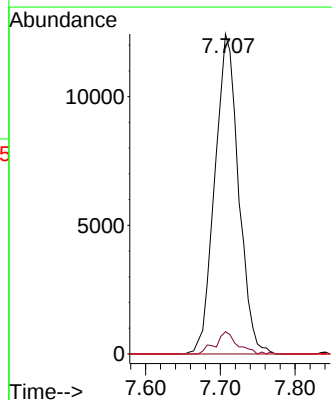
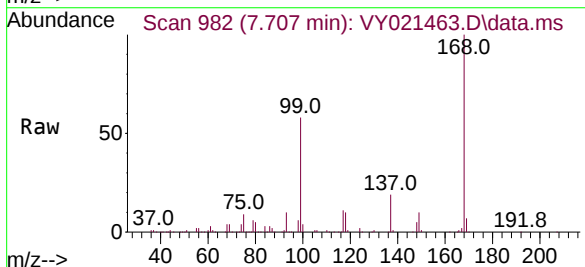
Tgt Ion: 117 Resp: 27575

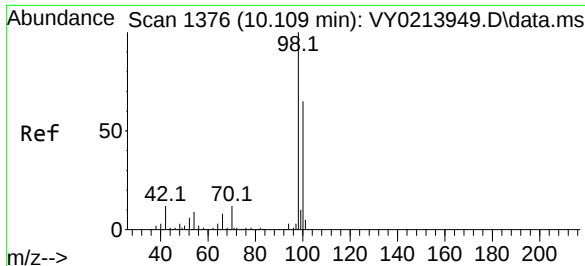
Ion Ratio Lower Upper

117 100

119 7.0 75.8 113.8#

121 0.0 23.9 35.9#

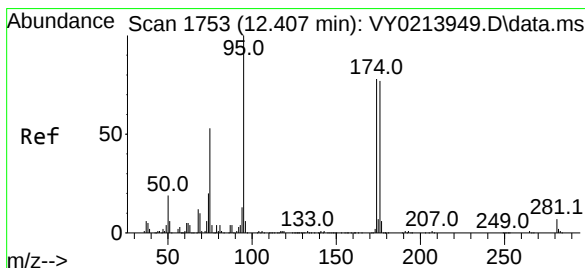
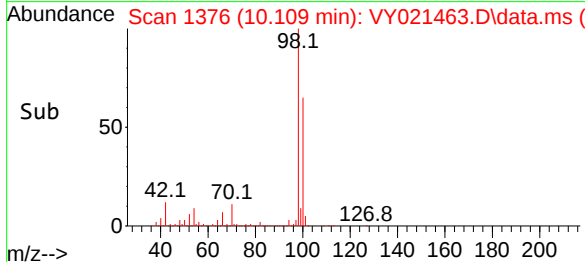
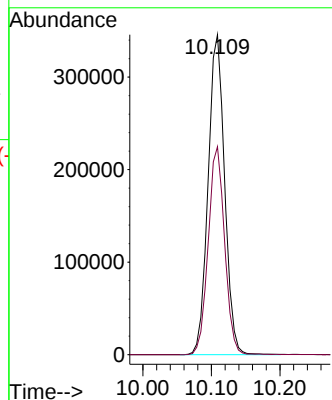
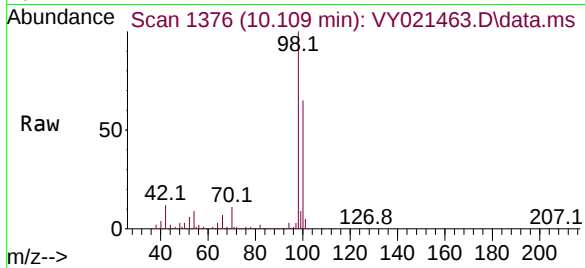




#50  
Toluene-d8  
Concen: 49.014 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

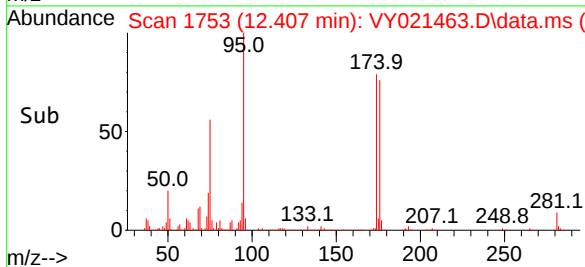
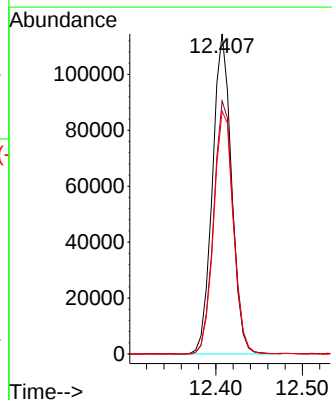
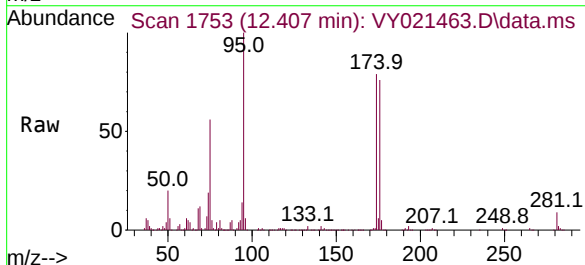
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-105-SB02

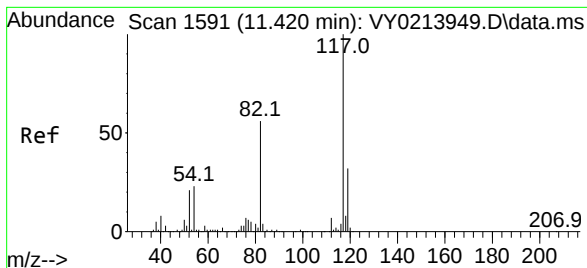
Tgt Ion: 98 Resp: 579949  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 43.514 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. -0.000 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

Tgt Ion: 95 Resp: 175139  
Ion Ratio Lower Upper  
95 100  
174 81.1 0.0 165.0  
176 78.1 0.0 160.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

Instrument :

MSVOA\_Y

ClientSampleId :

ENV-105-SB02

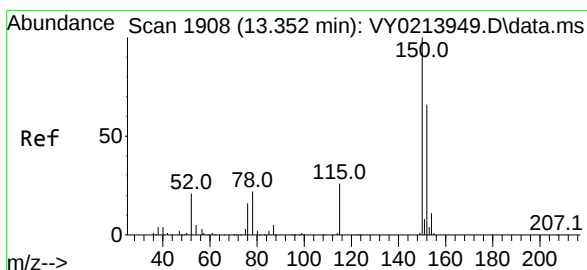
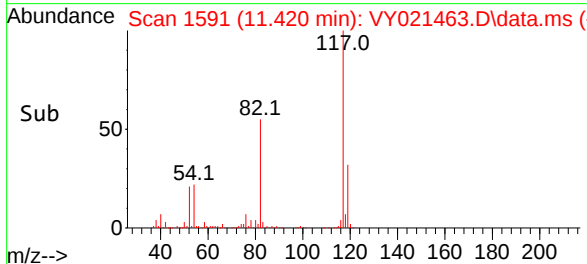
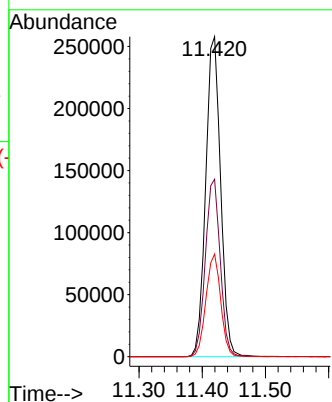
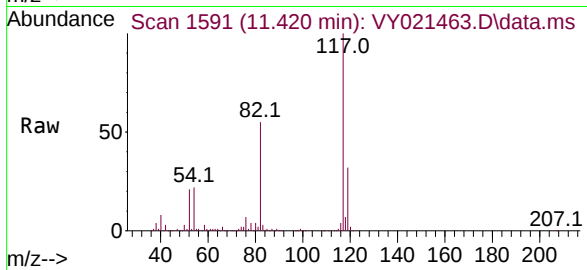
Tgt Ion:117 Resp: 422963

Ion Ratio Lower Upper

117 100

82 55.4 44.6 67.0

119 32.0 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021463.D

Acq: 07 Mar 2025 16:02

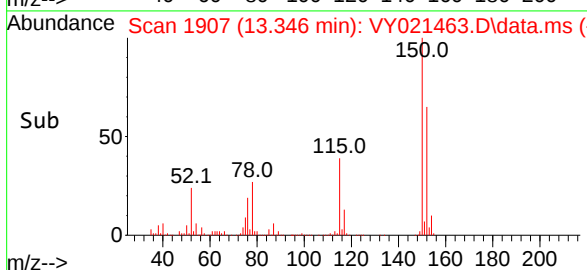
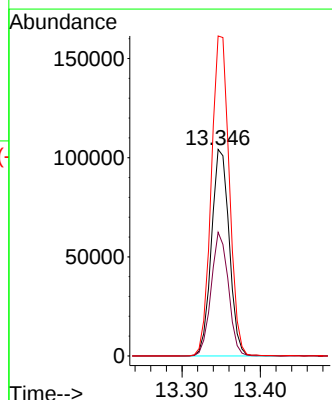
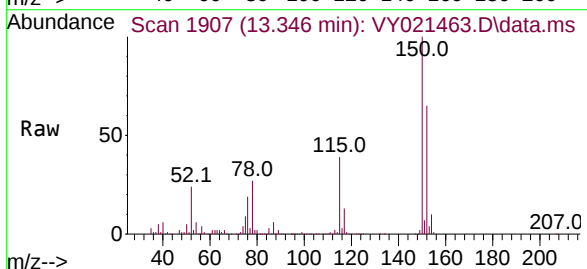
Tgt Ion:152 Resp: 163964

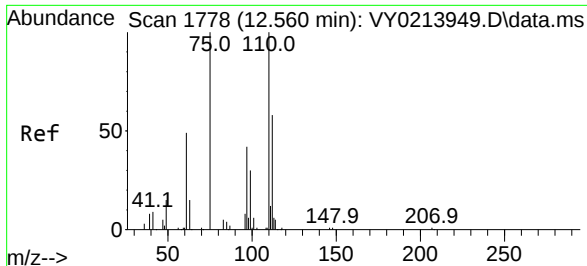
Ion Ratio Lower Upper

152 100

115 57.9 29.0 87.0

150 156.6 0.0 347.2

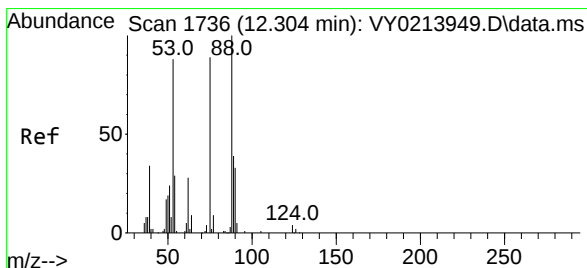
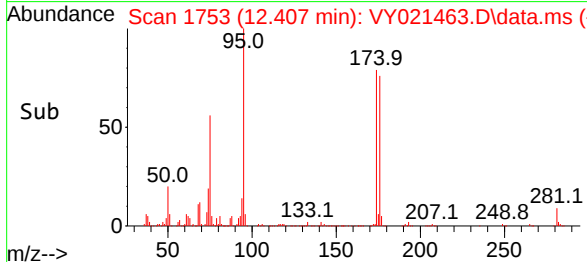
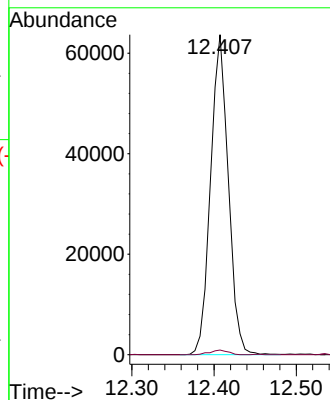
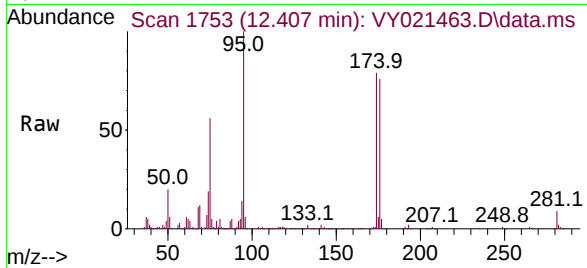




#76  
1,2,3-Trichloropropane  
Concen: 57.758 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. -0.152 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

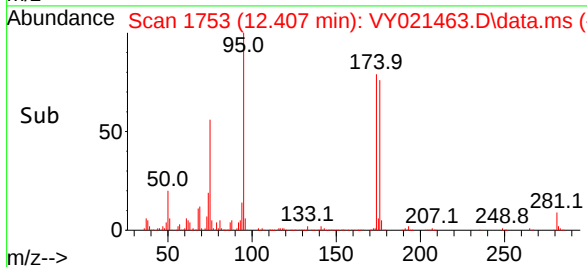
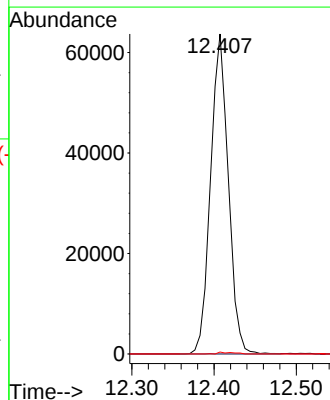
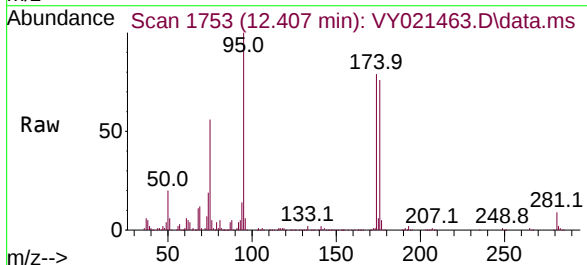
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-105-SB02

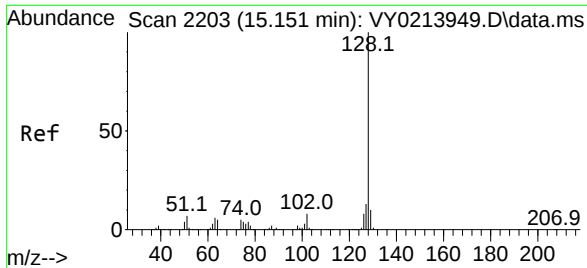
Tgt Ion: 75 Resp: 95430  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 131.302 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. 0.104 min  
Lab File: VY021463.D  
Acq: 07 Mar 2025 16:02

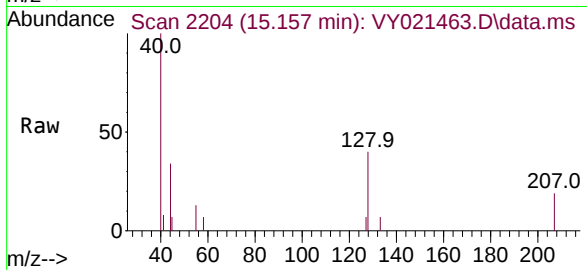
Tgt Ion: 75 Resp: 95430  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.0 121.4#  
89 0.5 36.9 55.3#





#95  
 Naphthalene  
 Concen: 1.556 ug/l  
 RT: 15.157 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VY021463.D  
 Acq: 07 Mar 2025 16:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ENV-105-SB02



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 475   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 14.5  | 10.6  | 15.8  |
| 129      | 0.0   | 8.6   | 13.0  |

