

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022025\  
 Data File : VY021262.D  
 Acq On : 20 Feb 2025 20:13  
 Operator : SY/MD  
 Sample : Q1382-07  
 Misc : 5.61g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Feb 21 02:46:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 2025  
 Response via : Initial Calibration

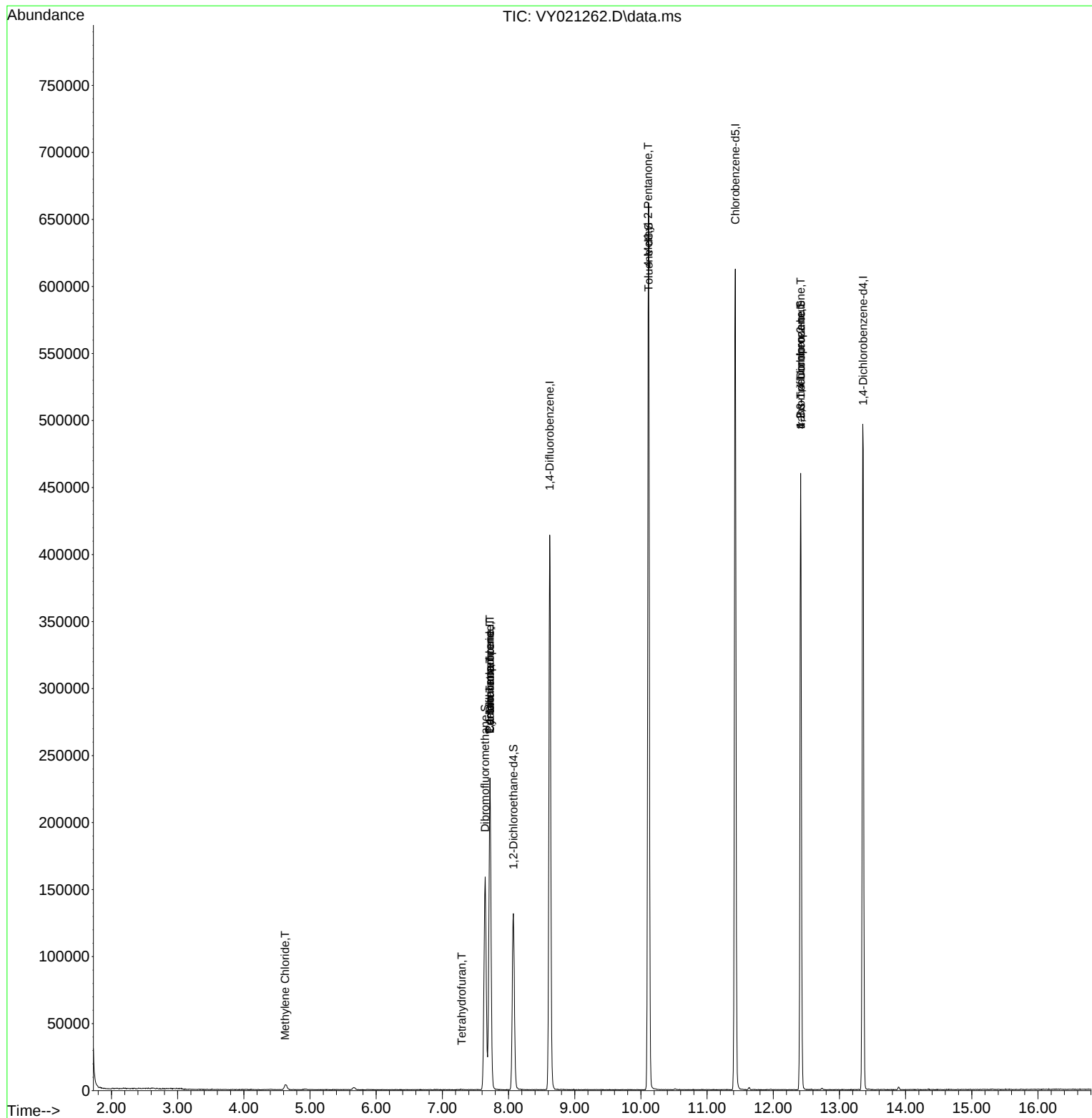
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.719          | 168  | 173272              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.622          | 114  | 337765              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.426         | 117  | 312885              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.359         | 152  | 121569              | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.073          | 65   | 106301              | 59.877  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 119.760% |         |        |          |
| 35) Dibromofluoromethane      | 7.646          | 113  | 110503              | 51.050  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 102.100% |         |        |          |
| 50) Toluene-d8                | 10.115         | 98   | 412123              | 50.010  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 100.020% |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.414         | 95   | 132214              | 49.109  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 98.220%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 20) Methylene Chloride        | 4.622          | 84   | 2556                | 1.485   | ug/l   | 96       |
| 29) Tetrahydrofuran           | 7.293          | 42   | 311                 | 1.010   | ug/l # | 45       |
| 31) Cyclohexane               | 7.719          | 56   | 3940                | 1.301   | ug/l # | 19       |
| 36) 1,1-Dichloropropene       | 7.719          | 75   | 14024               | 4.374   | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.719          | 117  | 17801               | 4.752   | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.109         | 43   | 2080                | 1.480   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.414         | 75   | 73120               | 66.305  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.414         | 75   | 73120               | 135.294 | ug/l # | 12       |
| -----                         |                |      |                     |         |        |          |

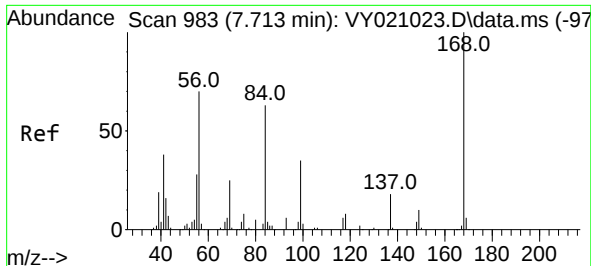
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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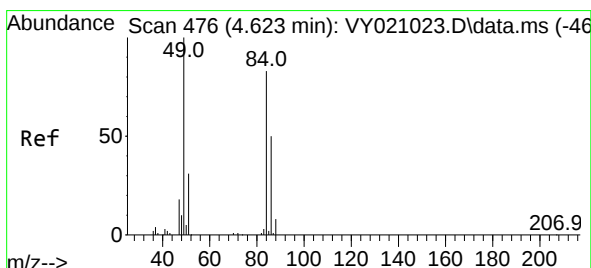
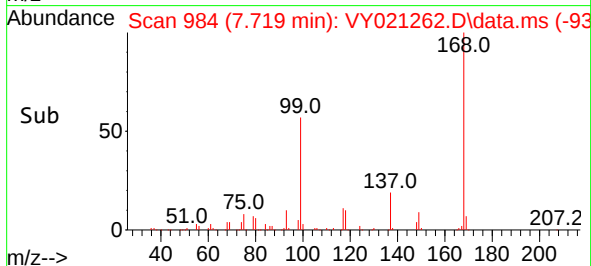
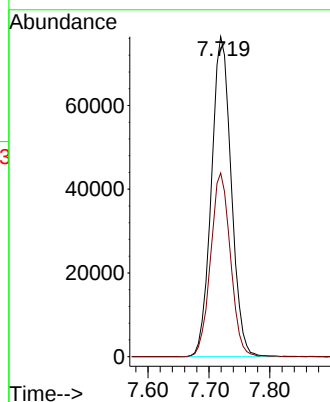
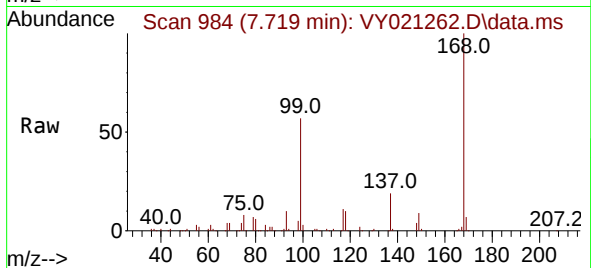




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.719 min Scan# 983  
Delta R.T. 0.006 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

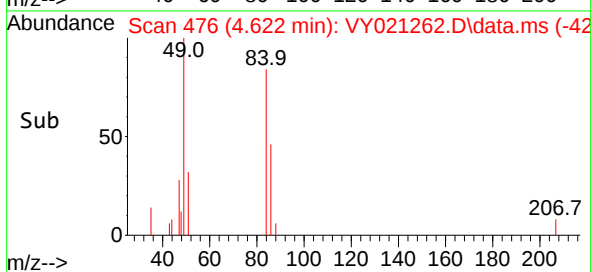
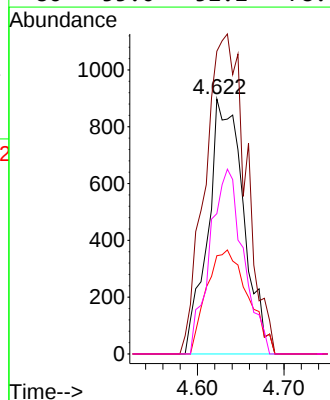
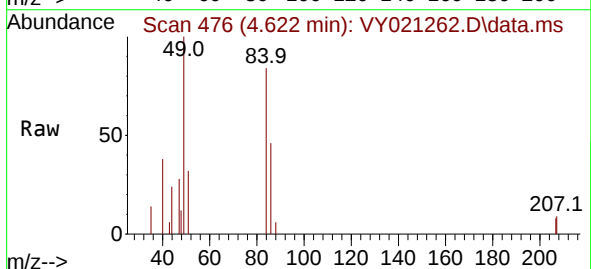
Instrument :  
MSVOA\_Y  
ClientSampleId :

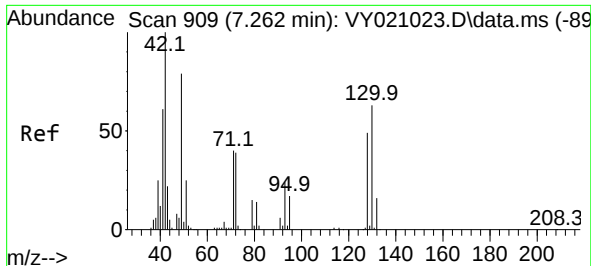
Tgt Ion:168 Resp: 173272  
Ion Ratio Lower Upper  
168 100  
99 57.4 44.2 66.4



#20  
Methylene Chloride  
Concen: 1.485 ug/l  
RT: 4.622 min Scan# 476  
Delta R.T. -0.000 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

Tgt Ion: 84 Resp: 2556  
Ion Ratio Lower Upper  
84 100  
49 118.7 95.2 142.8  
51 38.5 29.9 44.9  
86 55.0 52.2 78.4





#29

Tetrahydrofuran

Concen: 1.010 ug/l

RT: 7.293 min Scan# 914

Delta R.T. 0.030 min

Lab File: VY021262.D

Acq: 20 Feb 2025 20:13

Instrument :

MSVOA\_Y

ClientSampleId :

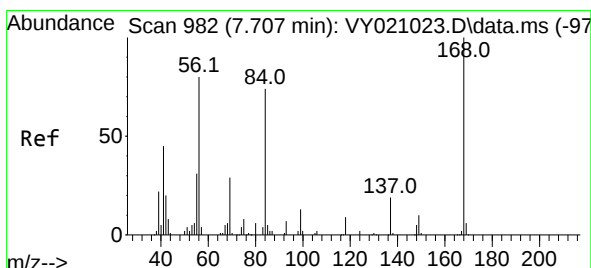
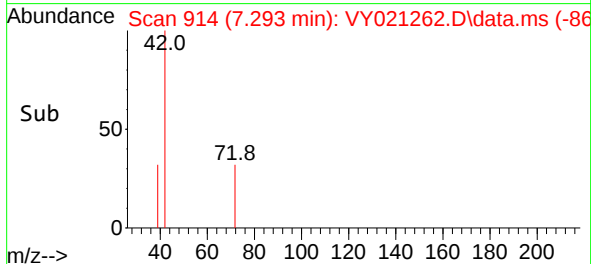
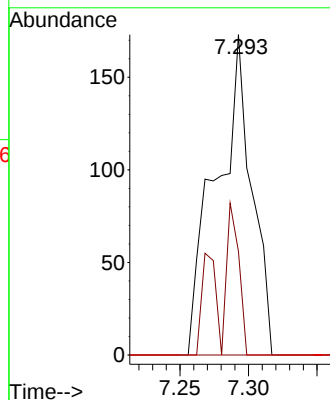
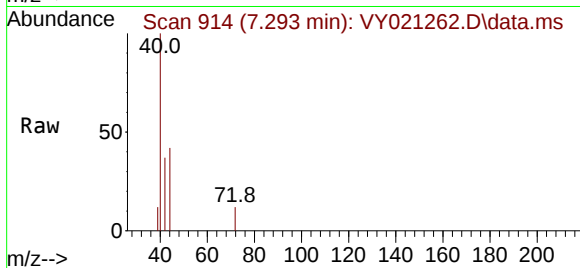
Tgt Ion: 42 Resp: 311

Ion Ratio Lower Upper

42 100

72 16.1 36.6 54.8#

71 0.0 33.8 50.6#



#31

Cyclohexane

Concen: 1.301 ug/l

RT: 7.719 min Scan# 984

Delta R.T. 0.012 min

Lab File: VY021262.D

Acq: 20 Feb 2025 20:13

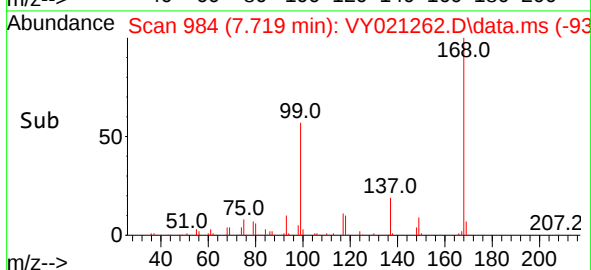
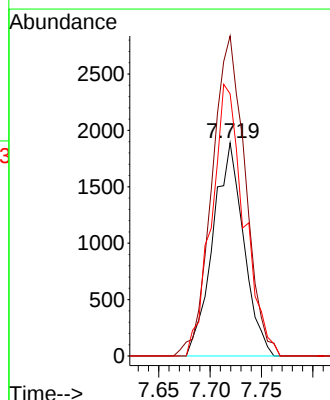
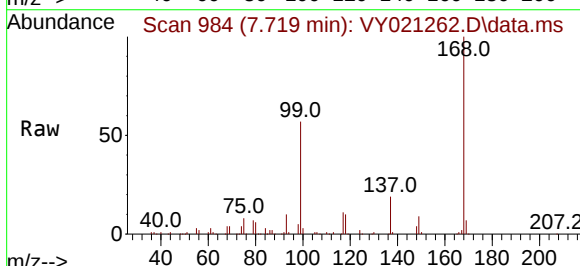
Tgt Ion: 56 Resp: 3940

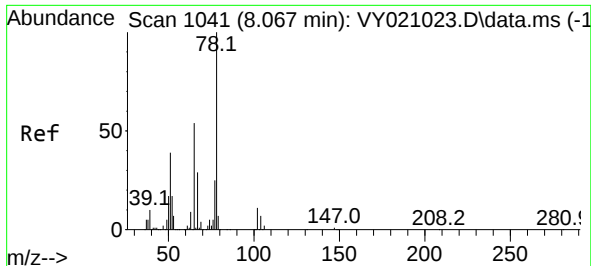
Ion Ratio Lower Upper

56 100

69 150.2 27.0 40.6#

84 123.0 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 59.877 ug/l

RT: 8.073 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VY021262.D

Acq: 20 Feb 2025 20:13

Instrument :

MSVOA\_Y

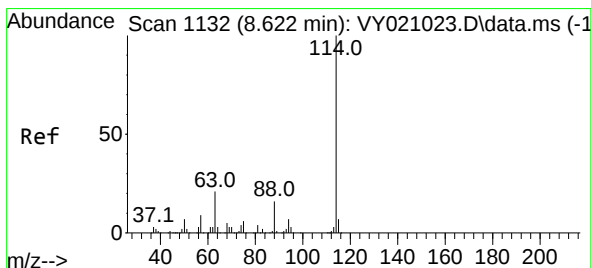
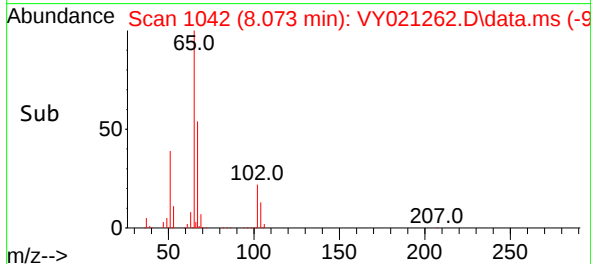
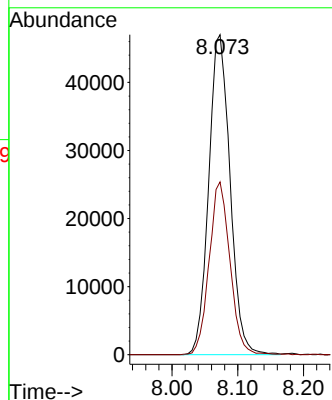
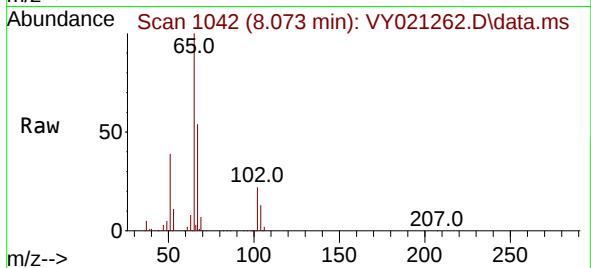
ClientSampleId :

Tgt Ion: 65 Resp: 106301

Ion Ratio Lower Upper

65 100

67 52.6 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021262.D

Acq: 20 Feb 2025 20:13

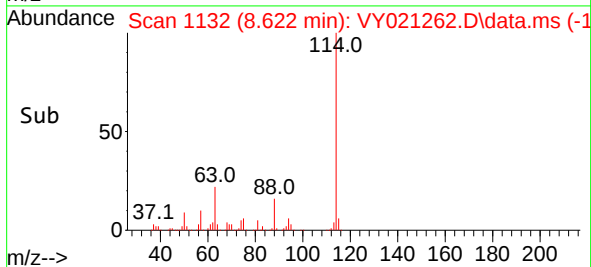
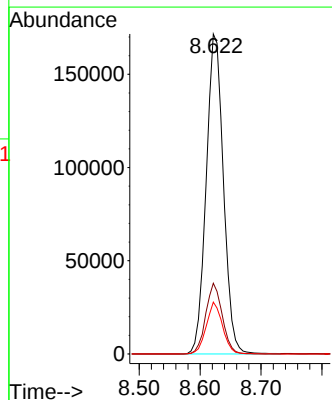
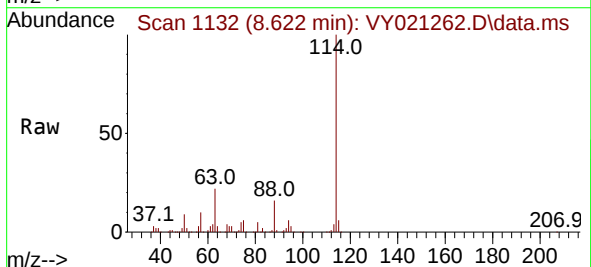
Tgt Ion: 114 Resp: 337765

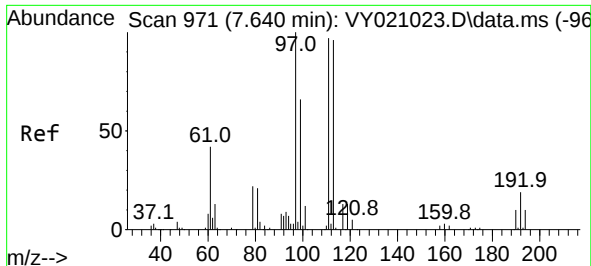
Ion Ratio Lower Upper

114 100

63 22.1 0.0 37.4

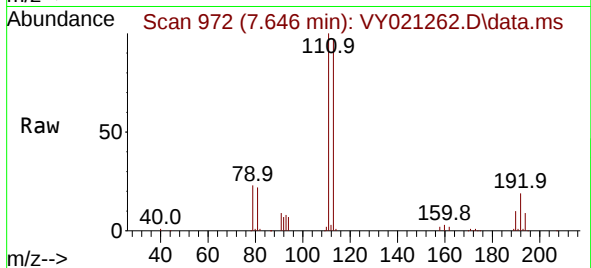
88 16.2 0.0 29.0



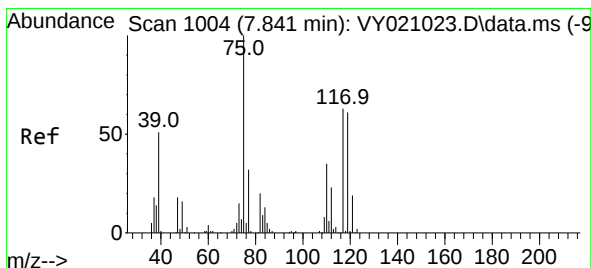
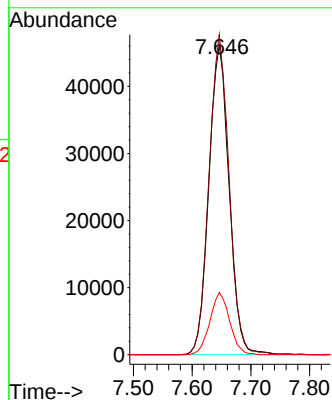
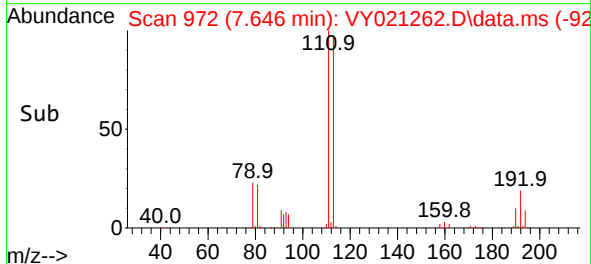


#35  
Dibromofluoromethane  
Concen: 51.050 ug/l  
RT: 7.646 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

Instrument :  
MSVOA\_Y  
ClientSampleId :

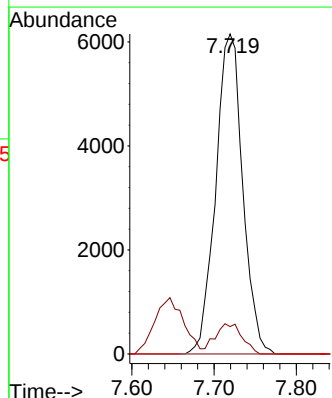
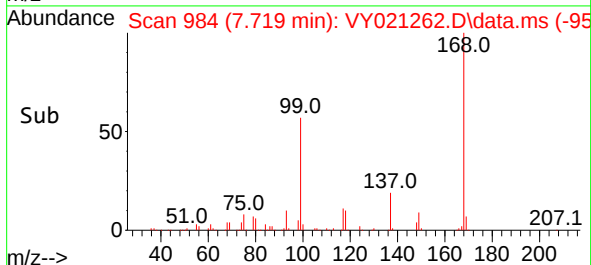
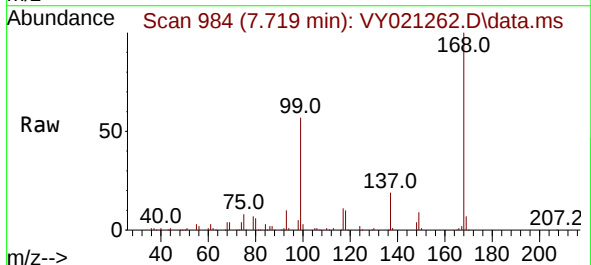


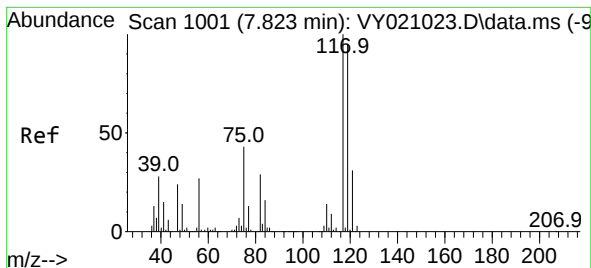
Tgt Ion:113 Resp: 110503  
Ion Ratio Lower Upper  
113 100  
111 102.8 83.8 125.6  
192 19.6 14.5 21.7



#36  
1,1-Dichloropropene  
Concen: 4.374 ug/l  
RT: 7.719 min Scan# 984  
Delta R.T. -0.122 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

Tgt Ion: 75 Resp: 14024  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.4 52.3#  
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 4.752 ug/l

RT: 7.719 min Scan# 91

Delta R.T. -0.104 min

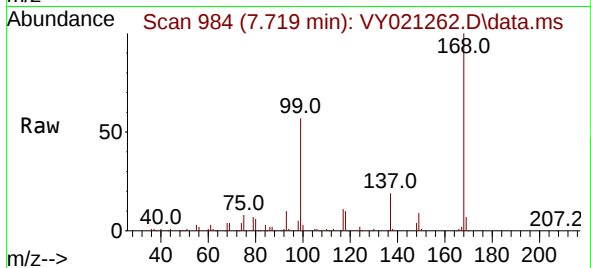
Lab File: VY021262.D

Acq: 20 Feb 2025 20:13

Instrument :

MSVOA\_Y

ClientSampleId :



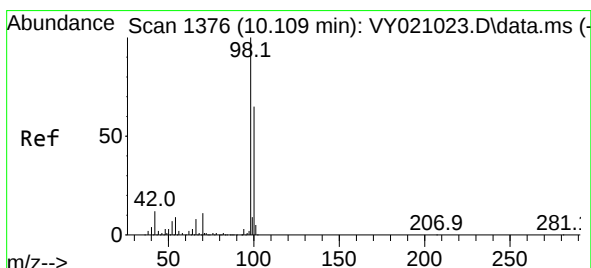
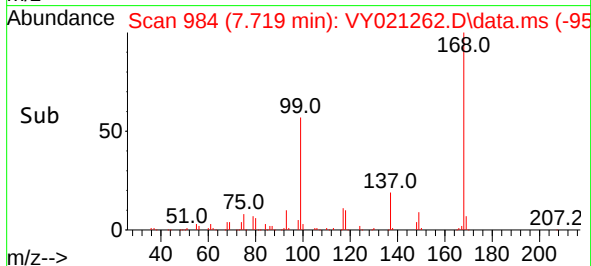
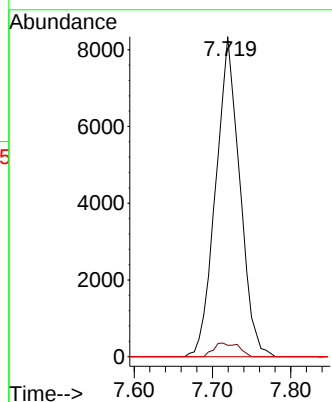
Tgt Ion:117 Resp: 17801

Ion Ratio Lower Upper

117 100

119 3.6 76.0 114.0#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 50.010 ug/l

RT: 10.115 min Scan# 1377

Delta R.T. 0.006 min

Lab File: VY021262.D

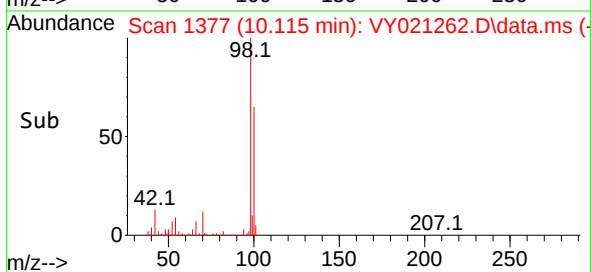
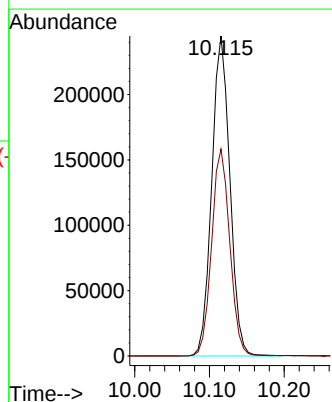
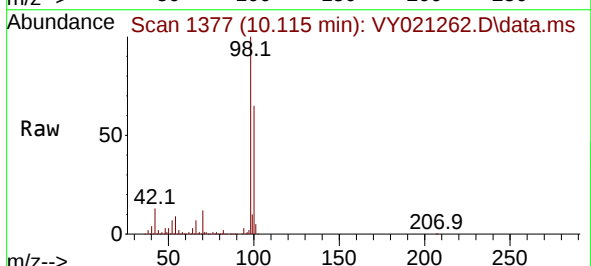
Acq: 20 Feb 2025 20:13

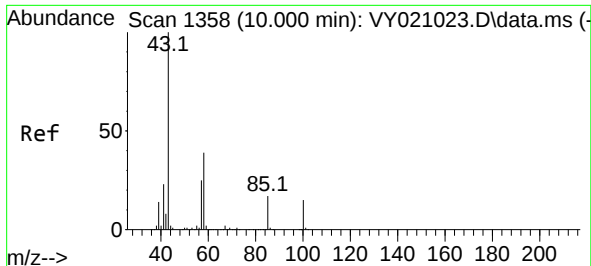
Tgt Ion: 98 Resp: 412123

Ion Ratio Lower Upper

98 100

100 64.8 52.3 78.5

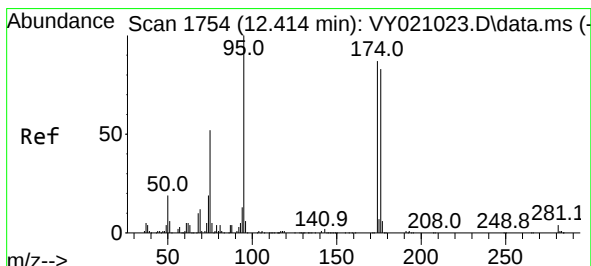
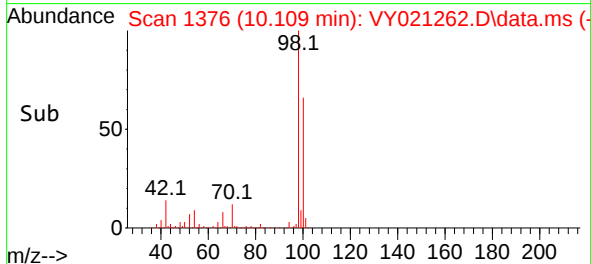
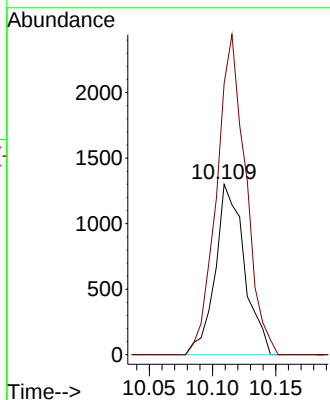
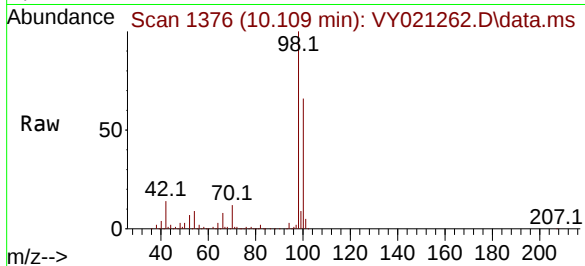




#51  
4-Methyl-2-Pentanone  
Concen: 1.480 ug/l  
RT: 10.109 min Scan# 1358  
Delta R.T. 0.110 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

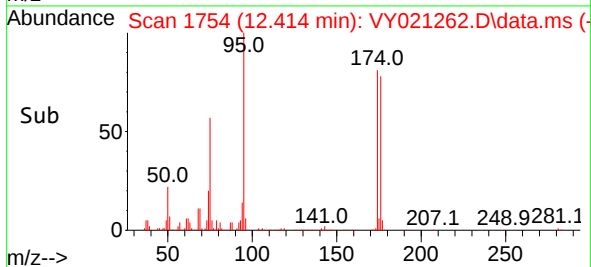
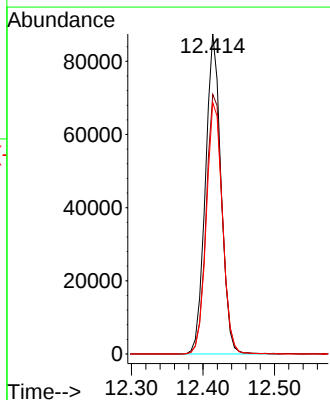
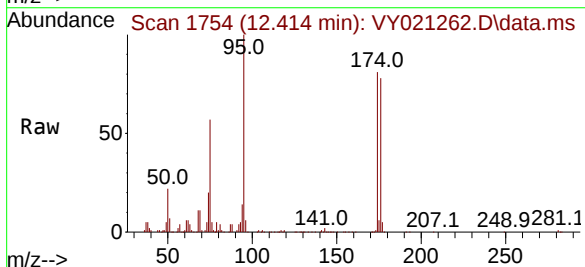
Instrument :  
MSVOA\_Y  
ClientSampleId :

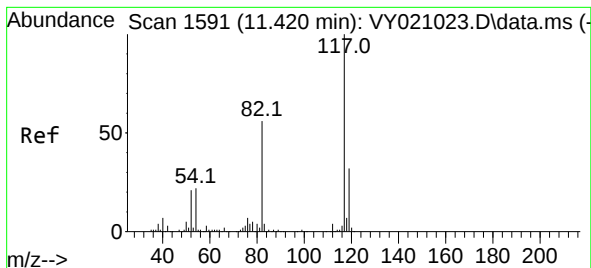
Tgt Ion: 43 Resp: 2080  
Ion Ratio Lower Upper  
43 100  
58 187.7 32.2 48.2#



#62  
4-Bromofluorobenzene  
Concen: 49.109 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. -0.000 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

Tgt Ion: 95 Resp: 132214  
Ion Ratio Lower Upper  
95 100  
174 84.3 0.0 160.0  
176 81.1 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.426 min Scan# 11

Delta R.T. 0.006 min

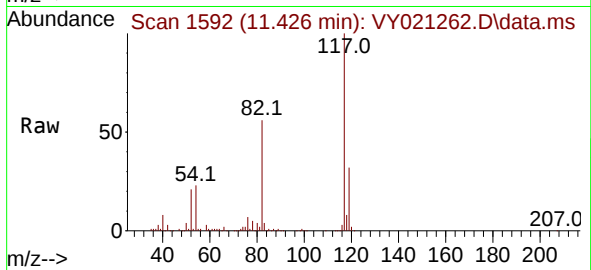
Lab File: VY021262.D

Acq: 20 Feb 2025 20:13

Instrument :

MSVOA\_Y

ClientSampleId :



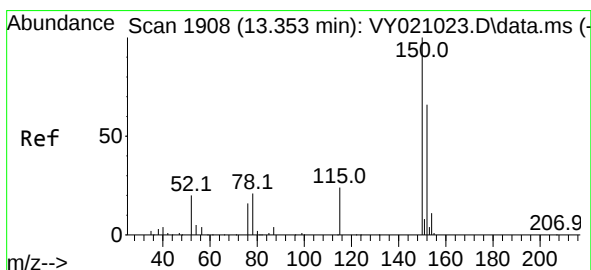
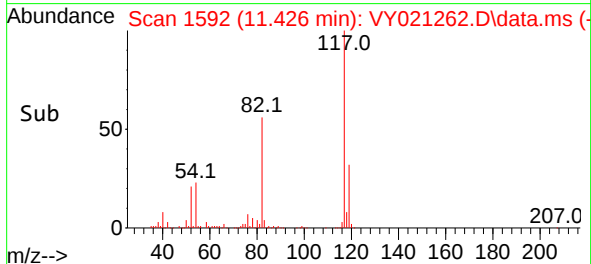
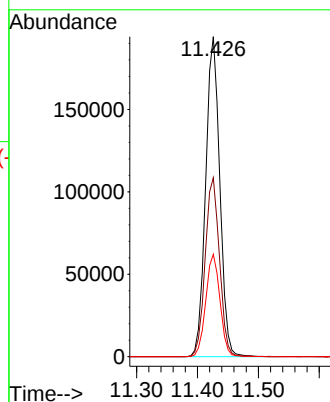
Tgt Ion:117 Resp: 312885

Ion Ratio Lower Upper

117 100

82 55.9 43.8 65.8

119 32.0 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.359 min Scan# 1909

Delta R.T. 0.006 min

Lab File: VY021262.D

Acq: 20 Feb 2025 20:13

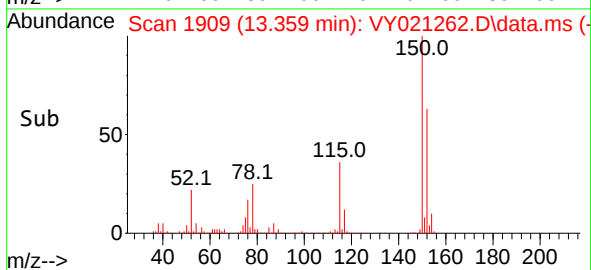
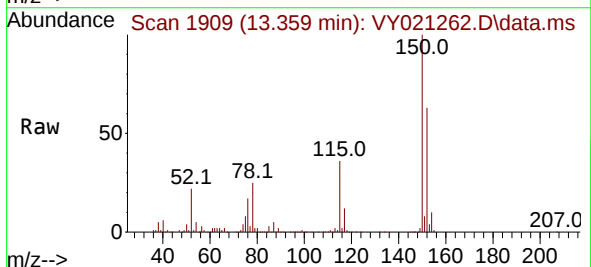
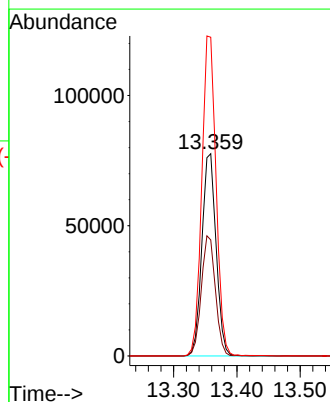
Tgt Ion:152 Resp: 121569

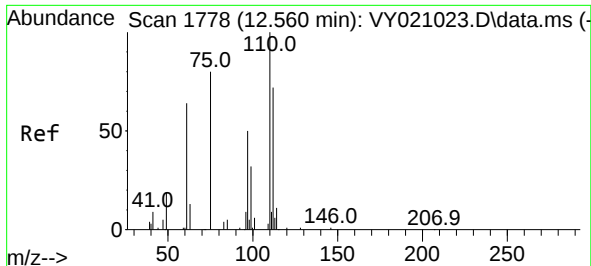
Ion Ratio Lower Upper

152 100

115 59.0 30.0 90.0

150 158.7 0.0 344.6

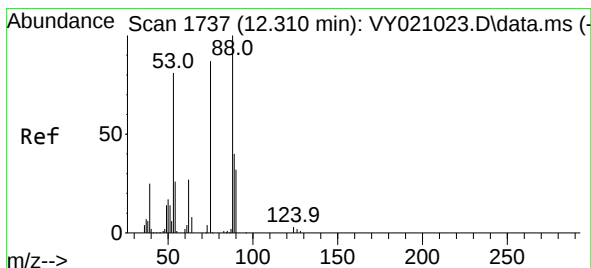
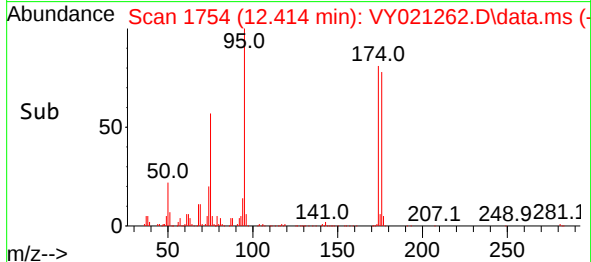
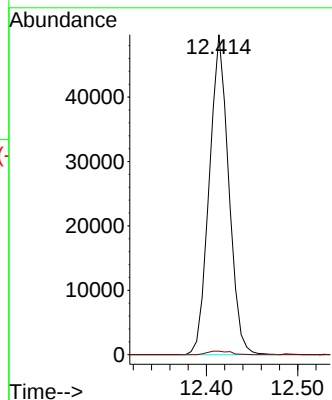
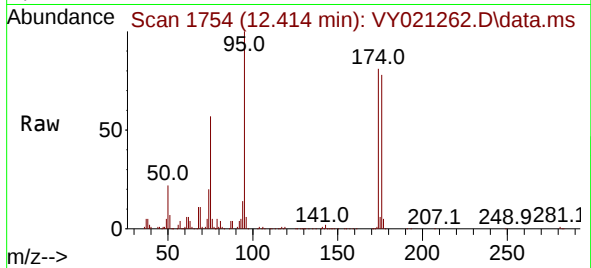




#76  
1,2,3-Trichloropropane  
Concen: 66.305 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. -0.147 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 73120  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 135.294 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. 0.103 min  
Lab File: VY021262.D  
Acq: 20 Feb 2025 20:13

Tgt Ion: 75 Resp: 73120  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.0 111.0#  
89 0.0 36.5 54.7#

