

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103122\  
 Data File : VY011197.D  
 Acq On : 31 Oct 2022 15:18  
 Operator : KP/MD  
 Sample : N5273-01RE  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LIDEN-GAS-PIPELINE

Quant Time: Nov 01 02:44:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 28 23:42:14 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 13399    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 21389    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.489 | 117  | 17704    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 5569     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 8884     | 64.122   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 128.240% |
| 35) Dibromofluoromethane    | 7.716  | 113   | 5898     | 44.840   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 89.680%  |
| 50) Toluene-d8              | 10.179 | 98    | 26408    | 50.678   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 101.360% |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 6596     | 38.685   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 77.360%  |

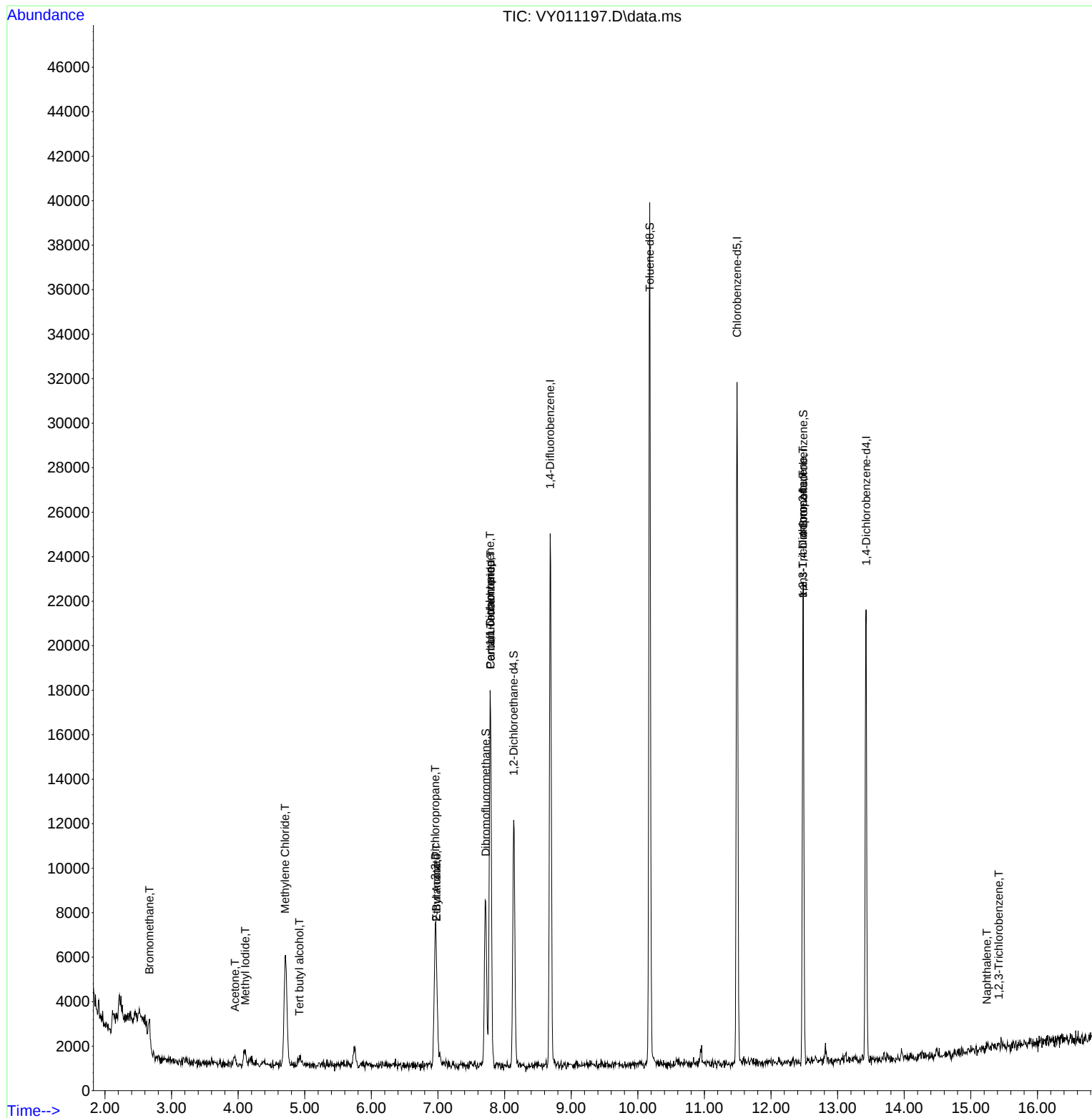
|                               |        |     |        |           |        |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| Target Compounds              |        |     | Qvalue |           |        |     |
| 4) Vinyl Chloride             | 2.430  | 62  | 20     | Below Cal | #      | 43  |
| 5) Bromomethane               | 2.668  | 94  | 480    | 3.027     | ug/l   | 89  |
| 10) Methyl Iodide             | 4.107  | 142 | 1180   | 9.006     | ug/l # | 82  |
| 11) Tert butyl alcohol        | 4.917  | 59  | 191    | 10.143    | ug/l # | 77  |
| 16) Acetone                   | 3.954  | 43  | 642    | 18.939    | ug/l # | 66  |
| 17) Carbon Disulfide          | 4.192  | 76  | 69     | Below Cal | #      | 75  |
| 20) Methylene Chloride        | 4.704  | 84  | 3996   | 25.211    | ug/l # | 77  |
| 25) 2-Butanone                | 6.978  | 43  | 293    | 6.030     | ug/l # | 54  |
| 26) 2,2-Dichloropropane       | 6.960  | 77  | 452    | 2.130     | ug/l # | 55  |
| 31) Cyclohexane               | 7.771  | 56  | 230    | Below Cal | #      | 65  |
| 36) 1,1-Dichloropropene       | 7.783  | 75  | 987    | 5.756     | ug/l # | 42  |
| 37) Ethyl Acetate             | 6.978  | 43  | 293    | 3.020     | ug/l # | 1   |
| 38) Carbon Tetrachloride      | 7.789  | 117 | 1426   | 7.635     | ug/l # | 11  |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75  | 3425   | 59.154    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75  | 3425   | 125.625   | ug/l # | 7   |
| 95) Naphthalene               | 15.239 | 128 | 340    | 5.906     | ug/l # | 69  |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180 | 88     | 1.131     | ug/l # | 13  |

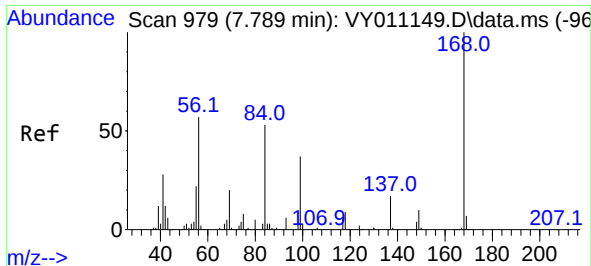
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103122\  
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LIDEN-GAS-PIPELINE

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Quant Title : SW846 8260  
QLast Update : Fri Oct 28 23:42:14 2022  
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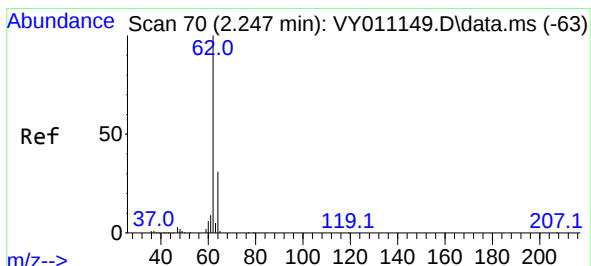
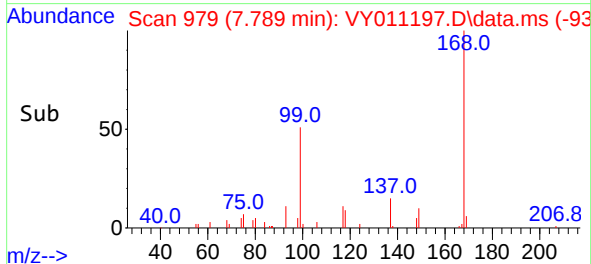
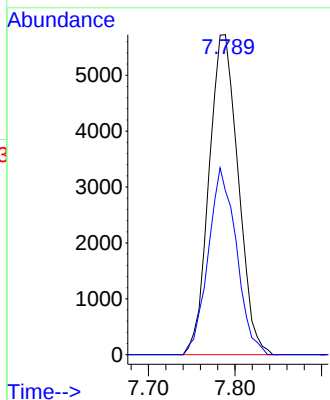
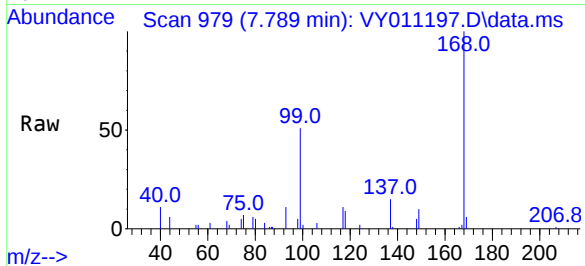




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

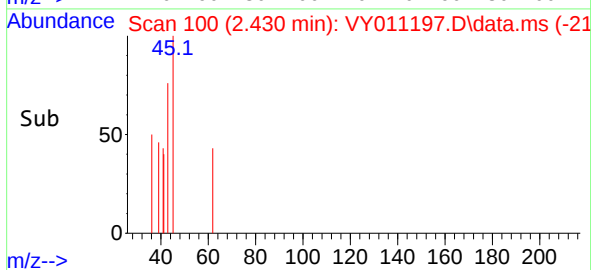
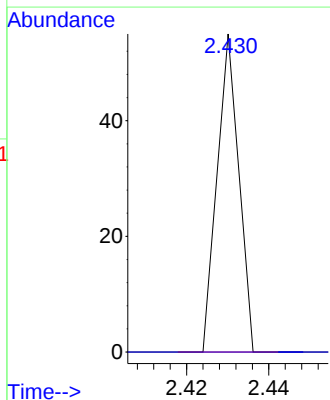
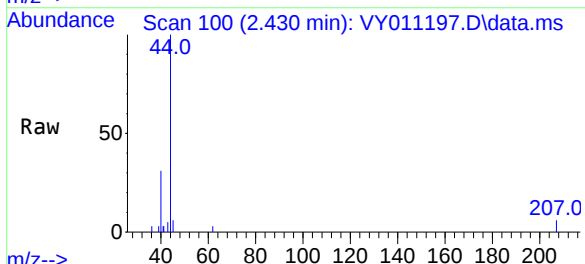
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LIDEN-GAS-PIPELINE

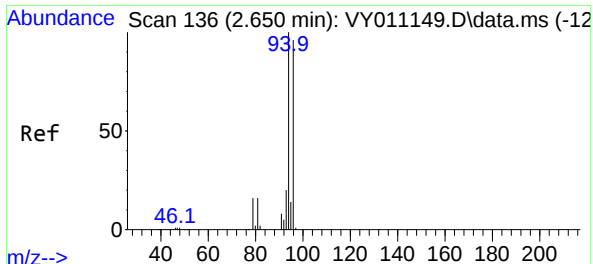
Tgt Ion:168 Resp: 13399  
Ion Ratio Lower Upper  
168 100  
99 51.2 46.9 70.3



#4  
Vinyl Chloride  
Concen: Below Cal  
RT: 2.430 min Scan# 100  
Delta R.T. 0.183 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

Tgt Ion: 62 Resp: 20  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.0 37.6#

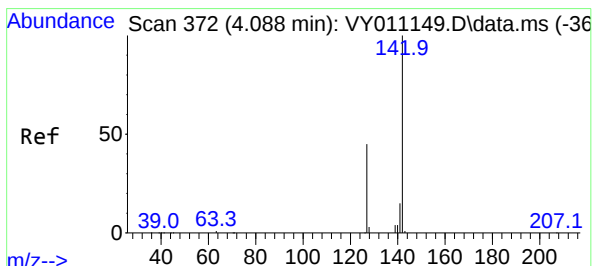
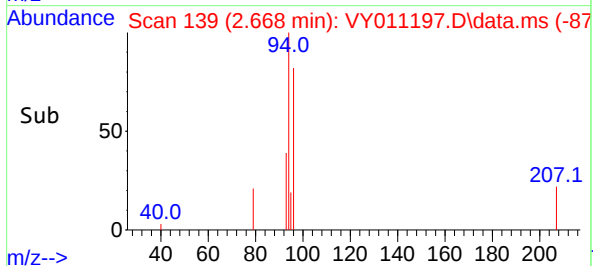
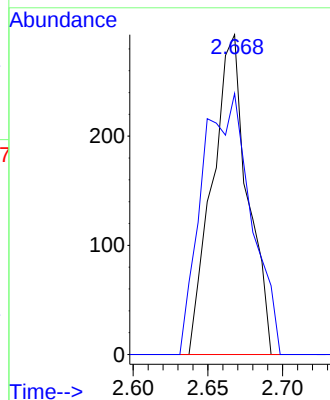
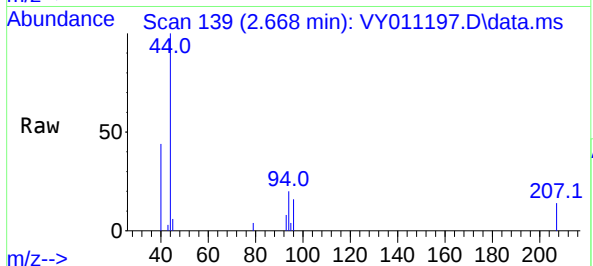




#5  
Bromomethane  
Concen: 3.027 ug/l  
RT: 2.668 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

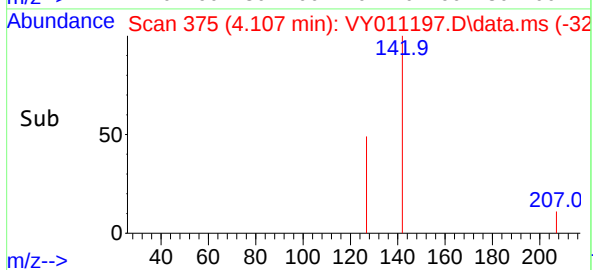
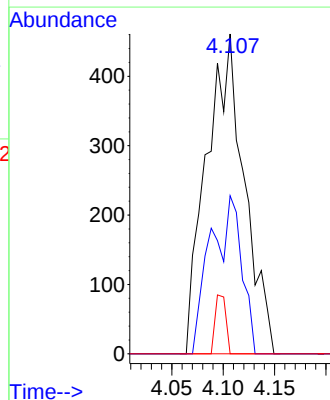
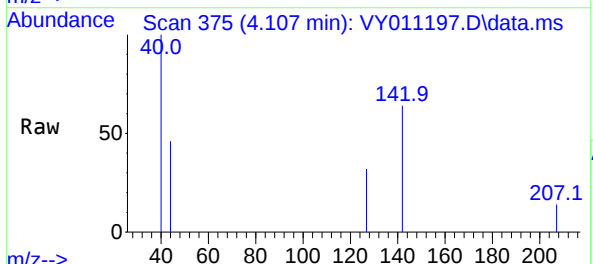
Instrument :  
MSVOA\_Y  
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LIDEN-GAS-PIPELINE

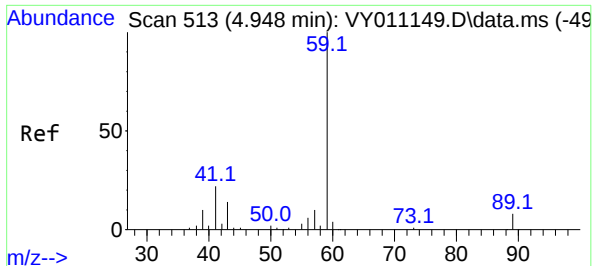
Tgt Ion: 94 Resp: 480  
Ion Ratio Lower Upper  
94 100  
96 81.6 73.5 110.3



#10  
Methyl Iodide  
Concen: 9.006 ug/l  
RT: 4.107 min Scan# 375  
Delta R.T. 0.019 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

Tgt Ion:142 Resp: 1180  
Ion Ratio Lower Upper  
142 100  
127 40.6 41.5 62.3#  
141 5.2 11.9 17.9#





#11

Tert butyl alcohol

Concen: 10.143 ug/l

RT: 4.917 min Scan# 508

Delta R.T. -0.031 min

Lab File: VY011197.D

Acq: 31 Oct 2022 15:18

Instrument :

MSVOA\_Y

ClientSampleId :

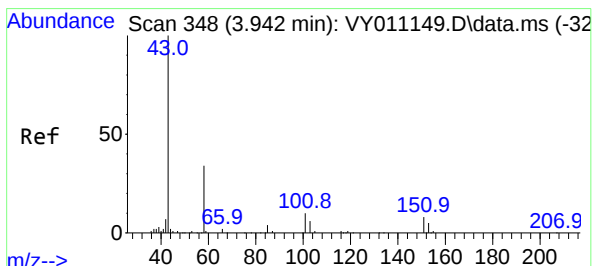
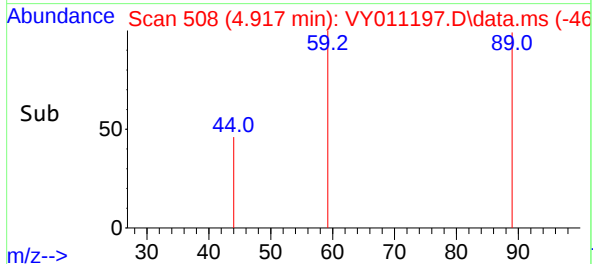
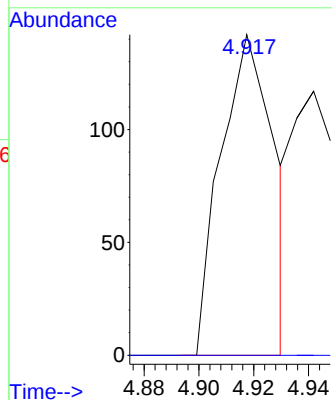
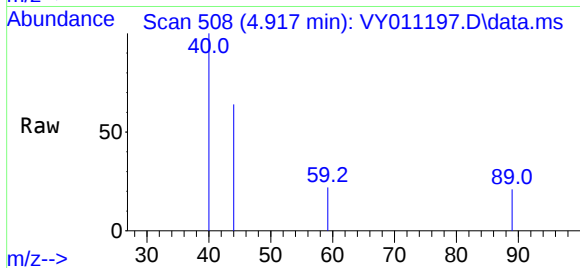
LIDEN-GAS-PIPELINE

Tgt Ion: 59 Resp: 191

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#16

Acetone

Concen: 18.939 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.012 min

Lab File: VY011197.D

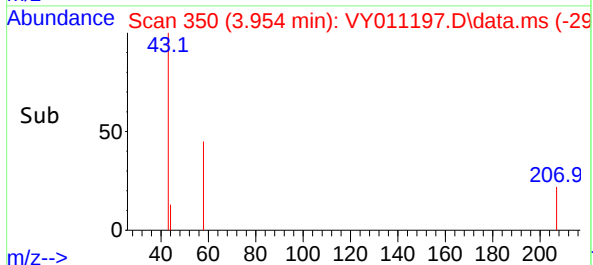
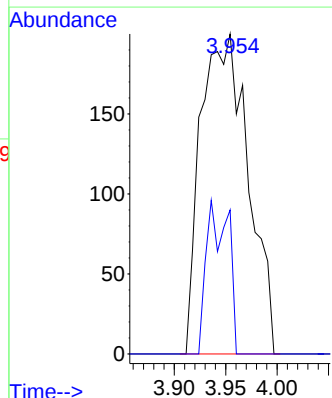
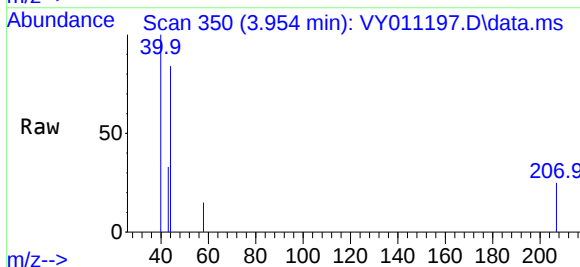
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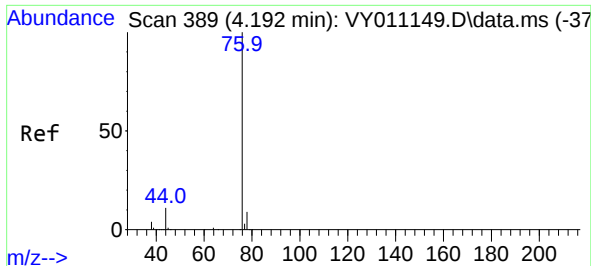
Tgt Ion: 43 Resp: 642

Ion Ratio Lower Upper

43 100

58 45.0 22.0 33.0#

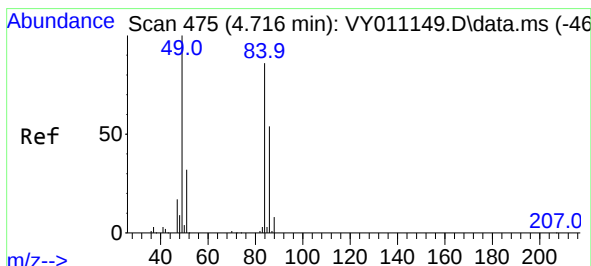
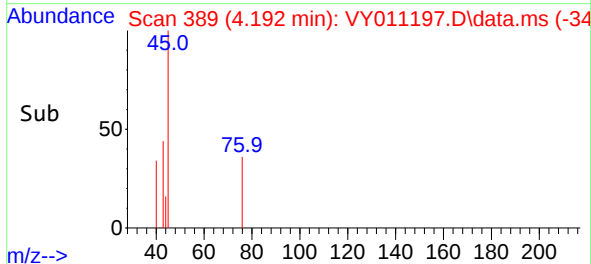
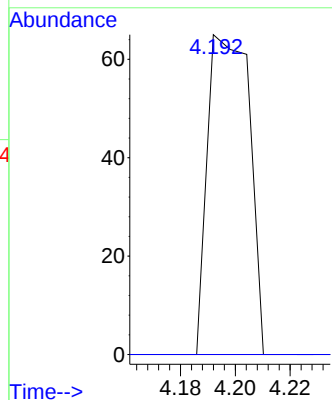
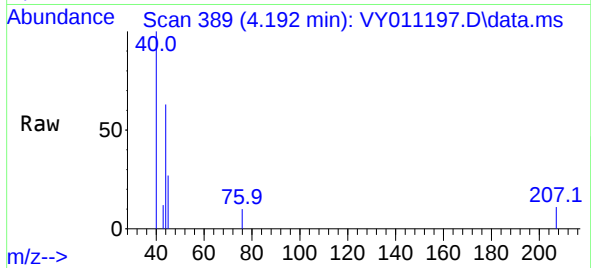




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.192 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

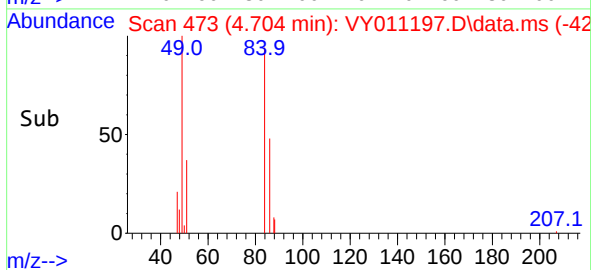
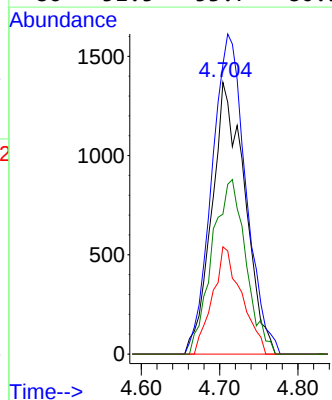
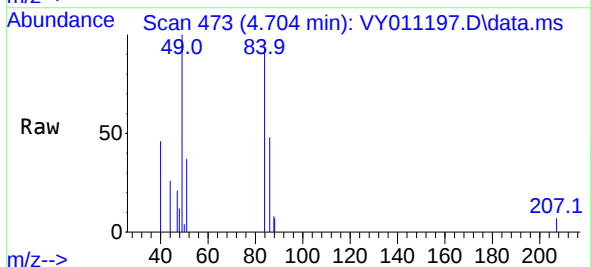
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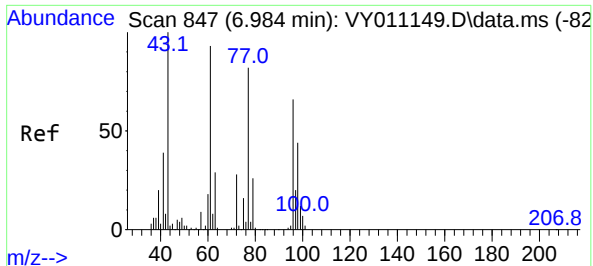
Tgt Ion: 76 Resp: 69  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#20  
Methylene Chloride  
Concen: 25.211 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. -0.012 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

Tgt Ion: 84 Resp: 3996  
Ion Ratio Lower Upper  
84 100  
49 106.6 114.4 171.6#  
51 39.5 35.3 52.9  
86 51.5 53.7 80.5#

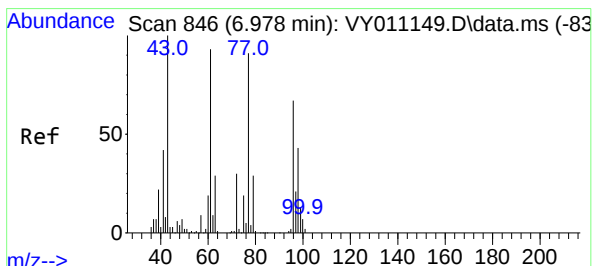
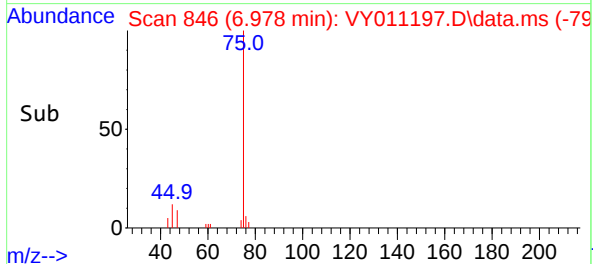
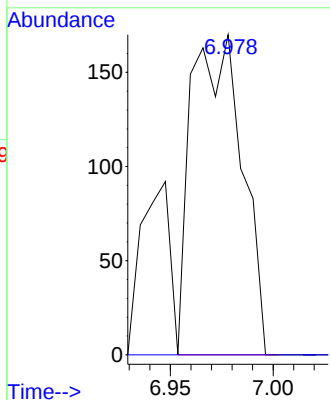
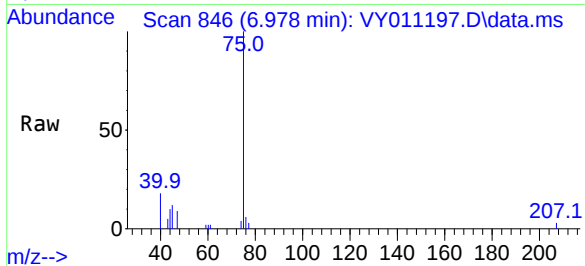




#25  
2-Butanone  
Concen: 6.030 ug/l  
RT: 6.978 min Scan# 84  
Delta R.T. -0.006 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

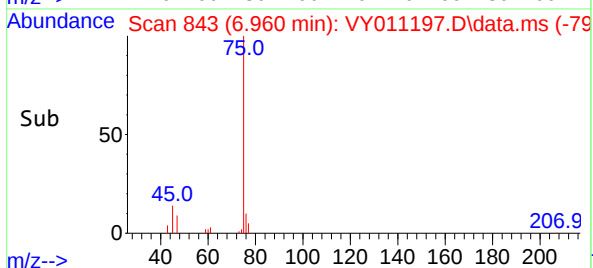
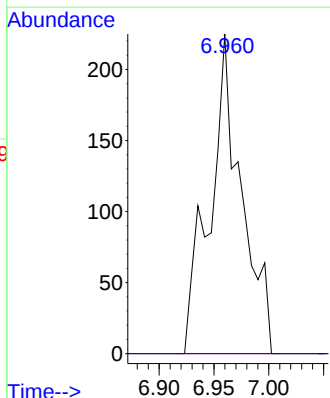
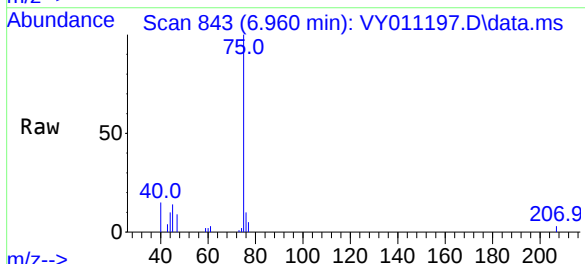
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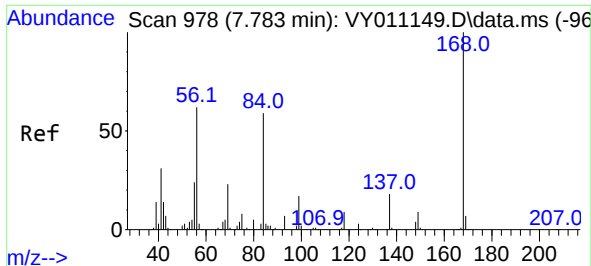
Tgt Ion: 43 Resp: 293  
Ion Ratio Lower Upper  
43 100  
72 0.0 17.7 26.5#



#26  
2,2-Dichloropropane  
Concen: 2.130 ug/l  
RT: 6.960 min Scan# 843  
Delta R.T. -0.018 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

Tgt Ion: 77 Resp: 452  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.4 31.4#

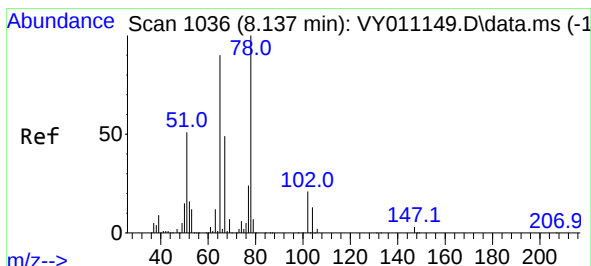
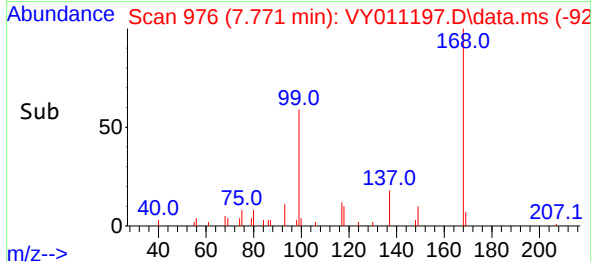
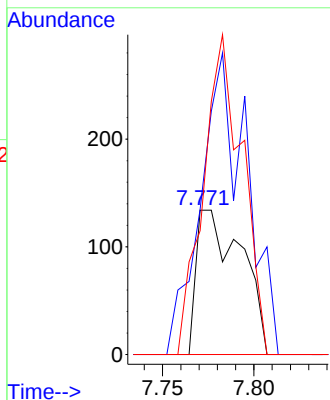
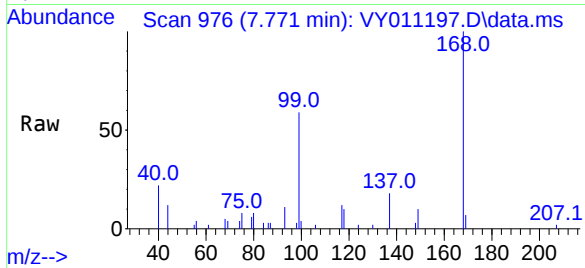




#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.771 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

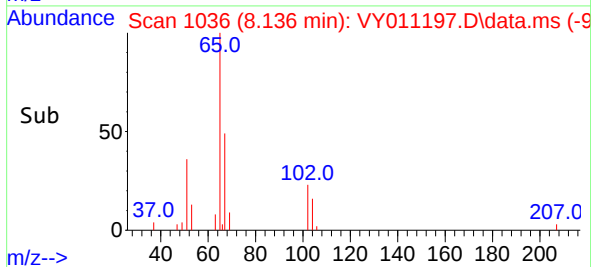
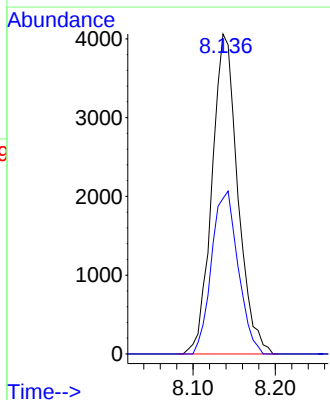
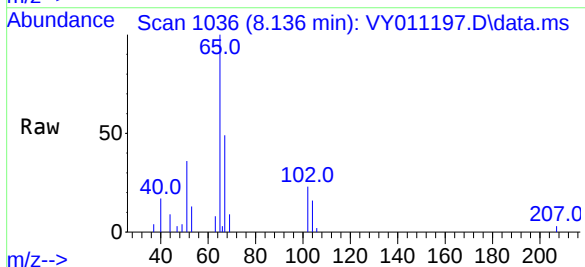
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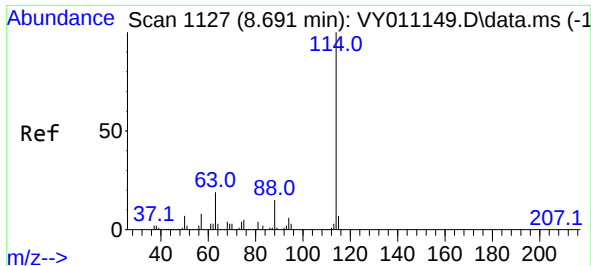
Tgt Ion: 56 Resp: 230  
Ion Ratio Lower Upper  
56 100  
69 100.7 26.7 40.1#  
84 85.8 67.2 100.8



#33  
1,2-Dichloroethane-d4  
Concen: 64.122 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.001 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

Tgt Ion: 65 Resp: 8884  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY011197.D

Acq: 31 Oct 2022 15:18

Instrument :

MSVOA\_Y

ClientSampleId :

LIDEN-GAS-PIPELINE

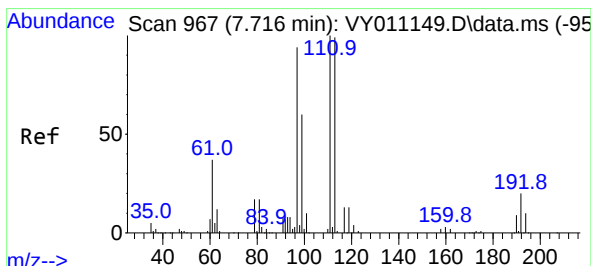
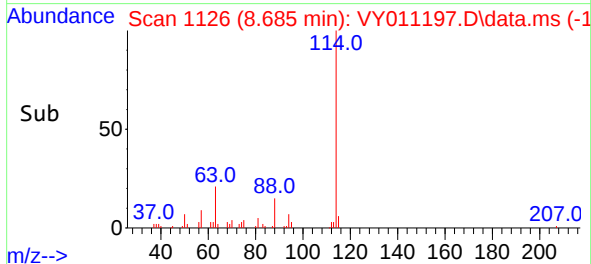
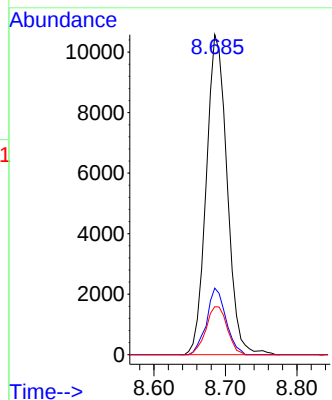
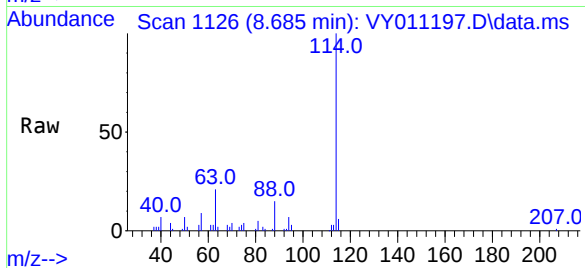
Tgt Ion:114 Resp: 21389

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.2

88 15.0 0.0 31.8



#35

Dibromofluoromethane

Concen: 44.840 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY011197.D

Acq: 31 Oct 2022 15:18

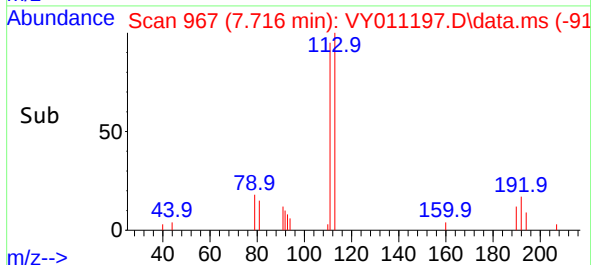
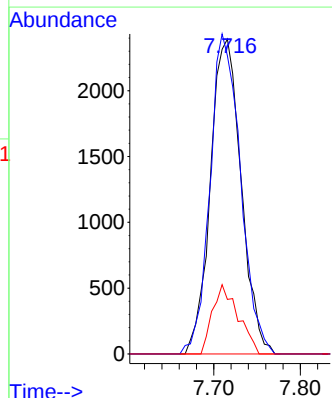
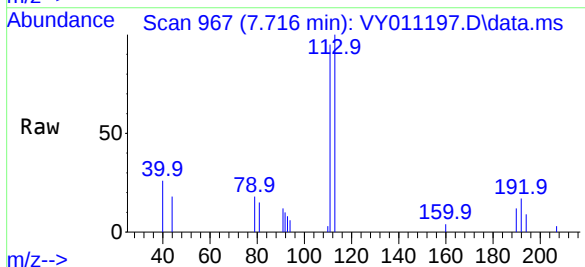
Tgt Ion:113 Resp: 5898

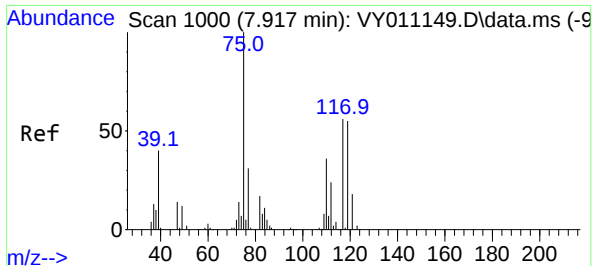
Ion Ratio Lower Upper

113 100

111 100.7 82.6 124.0

192 18.3 17.6 26.4





#36

1,1-Dichloropropene

Concen: 5.756 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY011197.D

Acq: 31 Oct 2022 15:18

Instrument :

MSVOA\_Y

ClientSampleId :

LIDEN-GAS-PIPELINE

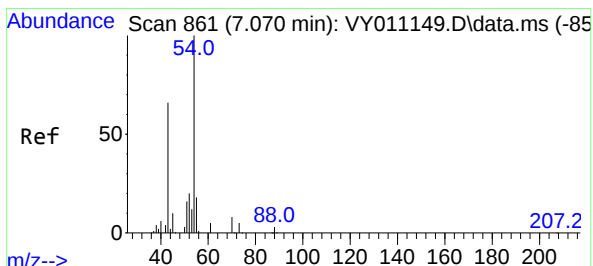
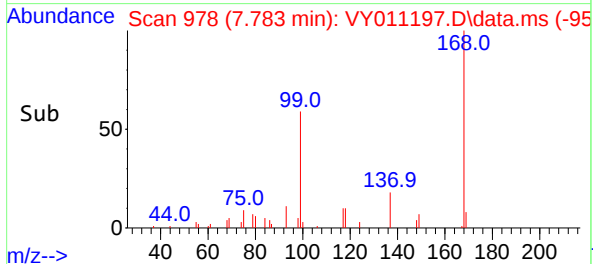
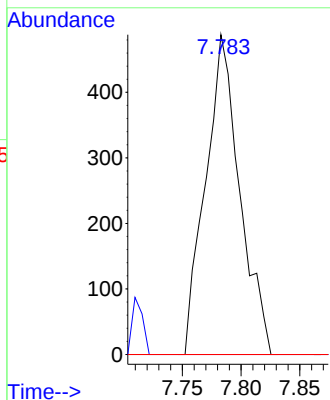
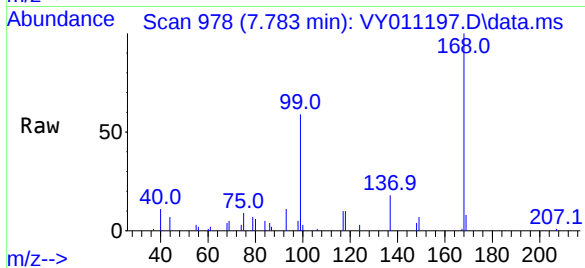
Tgt Ion: 75 Resp: 987

Ion Ratio Lower Upper

75 100

110 0.0 17.1 51.2#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 3.020 ug/l

RT: 6.978 min Scan# 846

Delta R.T. -0.092 min

Lab File: VY011197.D

Acq: 31 Oct 2022 15:18

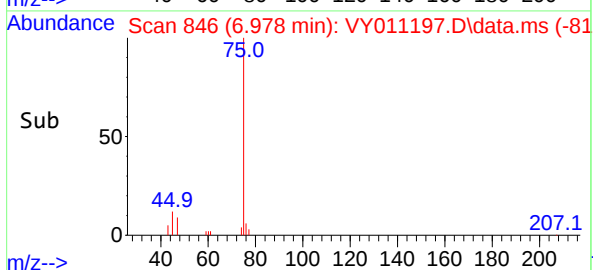
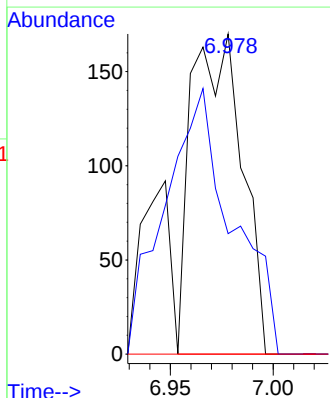
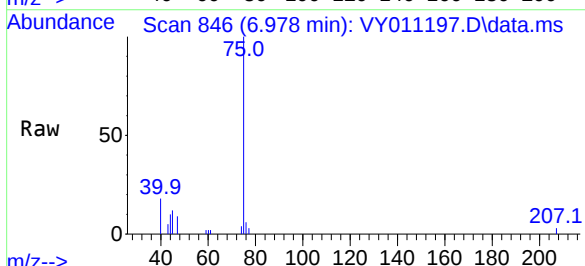
Tgt Ion: 43 Resp: 293

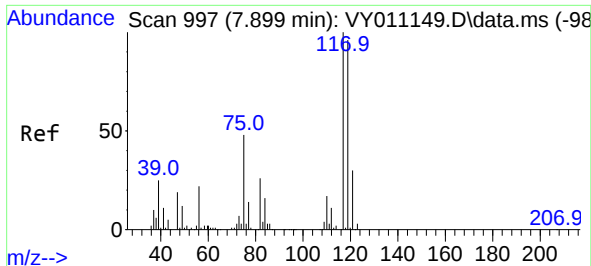
Ion Ratio Lower Upper

43 100

61 109.9 9.7 14.5#

70 0.0 7.1 10.7#

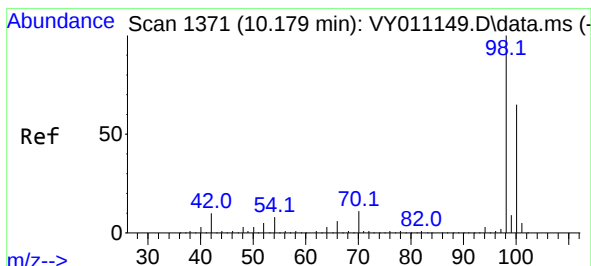
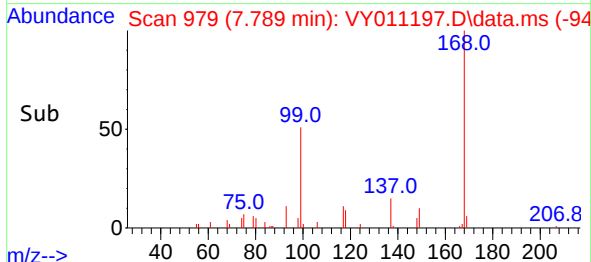
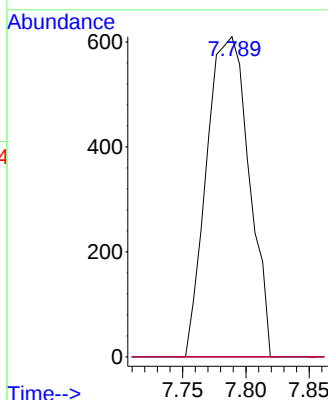
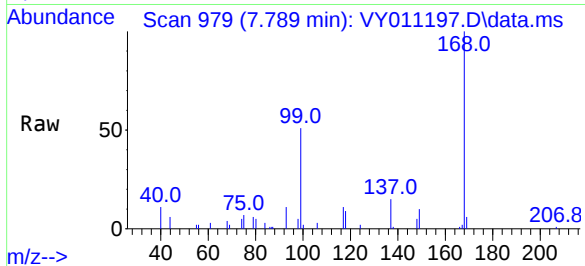




#38  
Carbon Tetrachloride  
Concen: 7.635 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

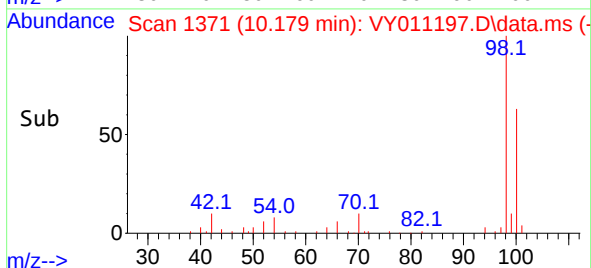
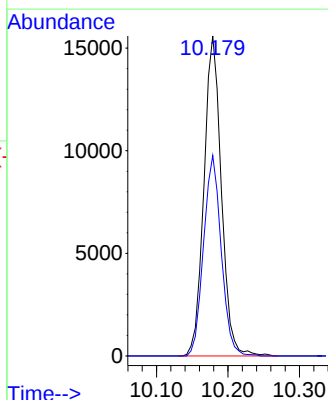
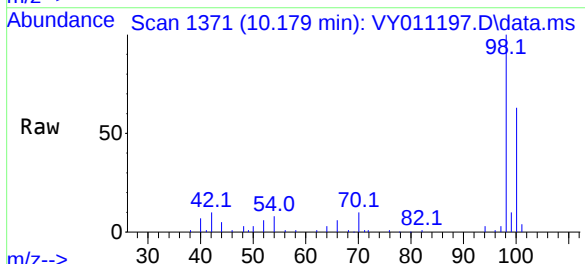
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LIDEN-GAS-PIPELINE

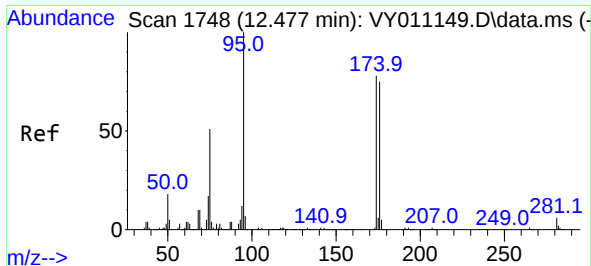
Tgt Ion:117 Resp: 1426  
Ion Ratio Lower Upper  
117 100  
119 0.0 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 50.678 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

Tgt Ion: 98 Resp: 26408  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.2 75.2

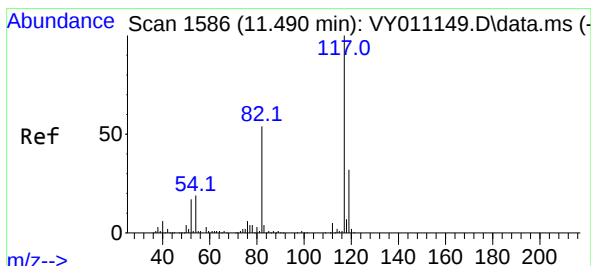
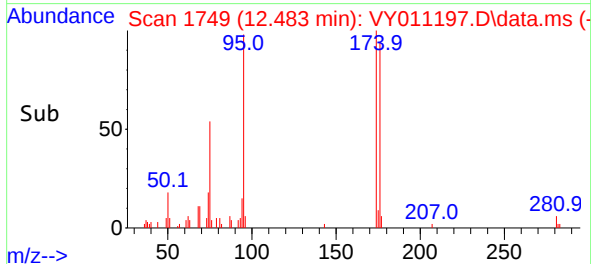
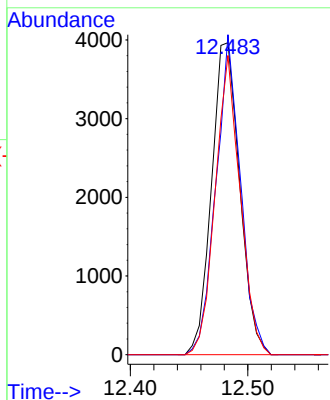
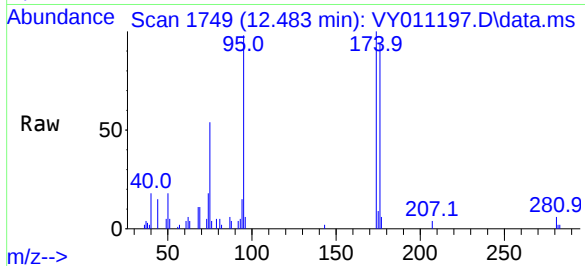




#62  
4-Bromofluorobenzene  
Concen: 38.685 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

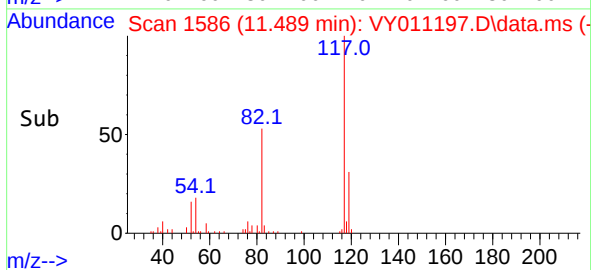
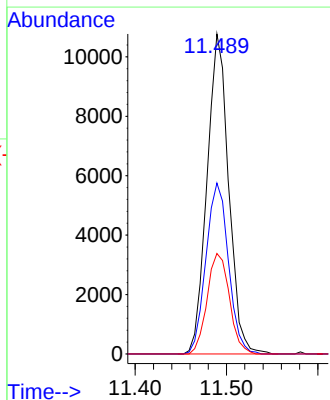
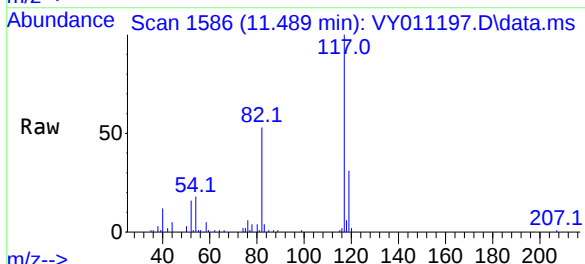
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LIDEN-GAS-PIPELINE

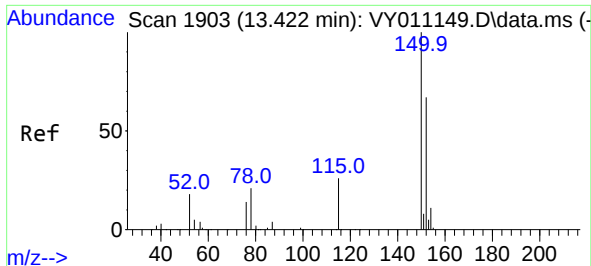
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 6596  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 89.1  | 0.0   | 177.0 |
| 176      | 85.1  | 0.0   | 175.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.001 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 17704 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 53.4  | 43.0  | 64.4  |
| 119      | 31.4  | 25.4  | 38.0  |

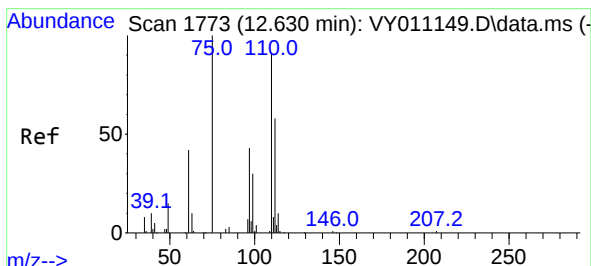
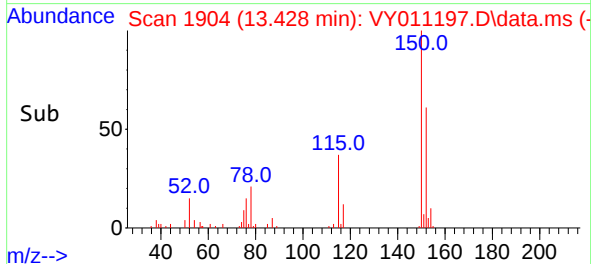
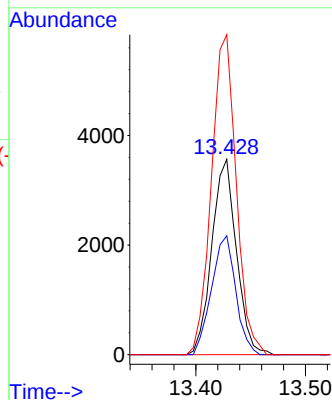
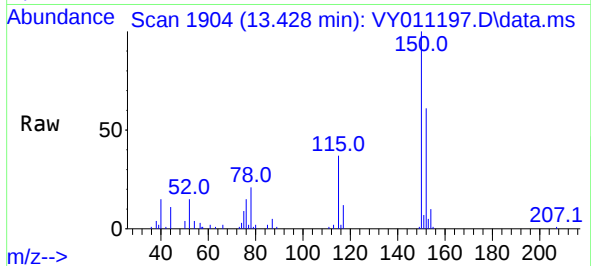




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1903  
Delta R.T. 0.006 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

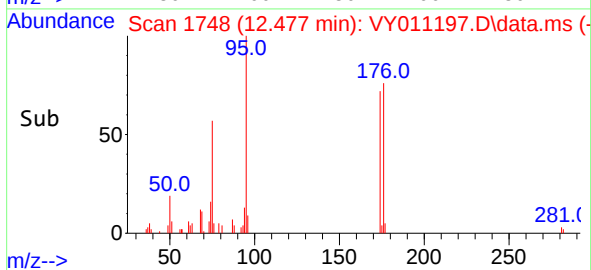
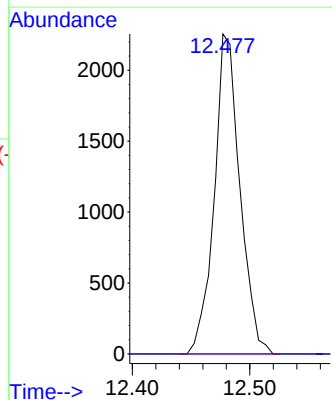
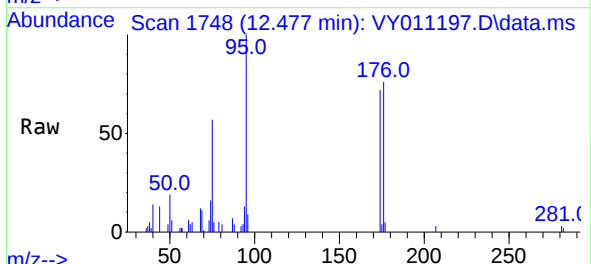
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LIDEN-GAS-PIPELINE

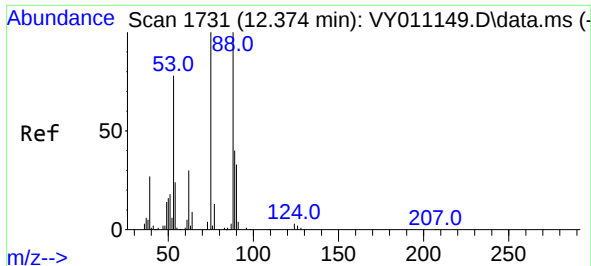
Tgt Ion:152 Resp: 5569  
Ion Ratio Lower Upper  
152 100  
115 59.8 28.2 84.7  
150 164.8 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 59.154 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

Tgt Ion: 75 Resp: 3425  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0

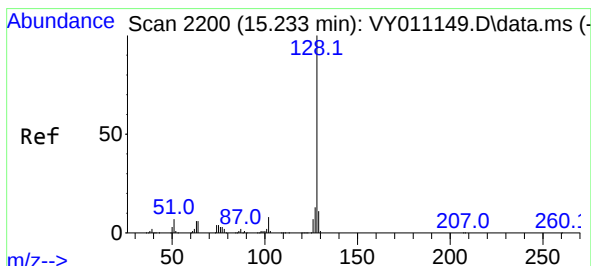
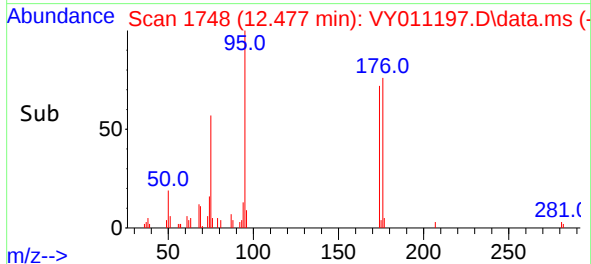
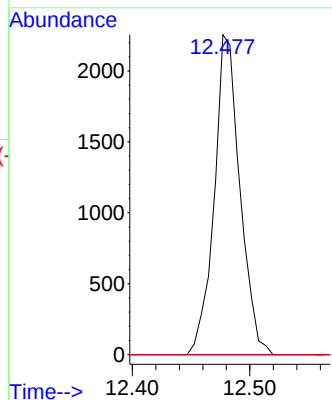
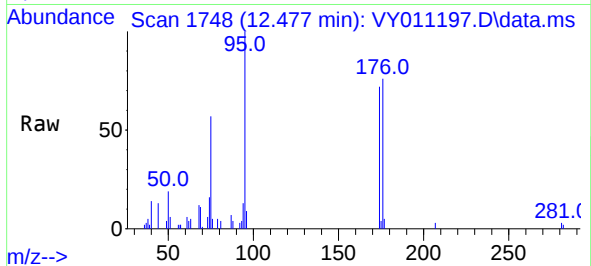




#81  
trans-1,4-Dichloro-2-butene  
Concen: 125.625 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.103 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

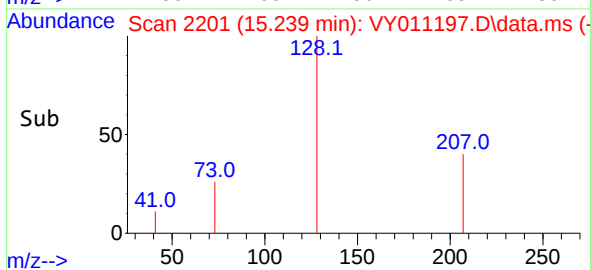
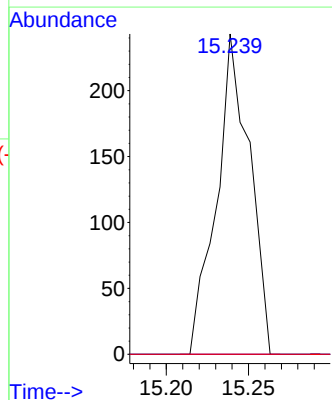
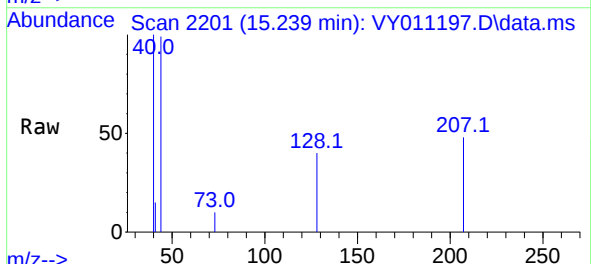
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LIDEN-GAS-PIPELINE

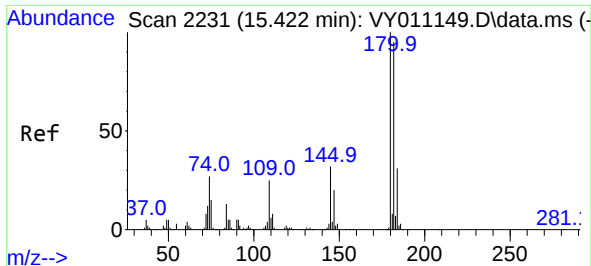
Tgt Ion: 75 Resp: 3425  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#



#95  
Naphthalene  
Concen: 5.906 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. 0.006 min  
Lab File: VY011197.D  
Acq: 31 Oct 2022 15:18

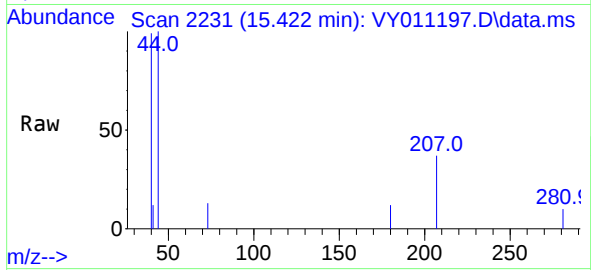
Tgt Ion: 128 Resp: 340  
Ion Ratio Lower Upper  
128 100  
127 0.0 11.0 16.4#  
129 0.0 8.4 12.6#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.131 ug/l  
 RT: 15.422 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VY011197.D  
 Acq: 31 Oct 2022 15:18

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LIDEN-GAS-PIPELINE



Tgt Ion:180 Resp: 88  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 47.3 141.9#  
 145 0.0 15.3 45.9#

