

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062824\  
 Data File : VY018732.D  
 Acq On : 28 Jun 2024 16:37  
 Operator : SY/MD  
 Sample : P3115-14  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20071

Quant Time: Jul 01 01:47:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y061324S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 14 07:08:24 2024  
 Response via : Initial Calibration

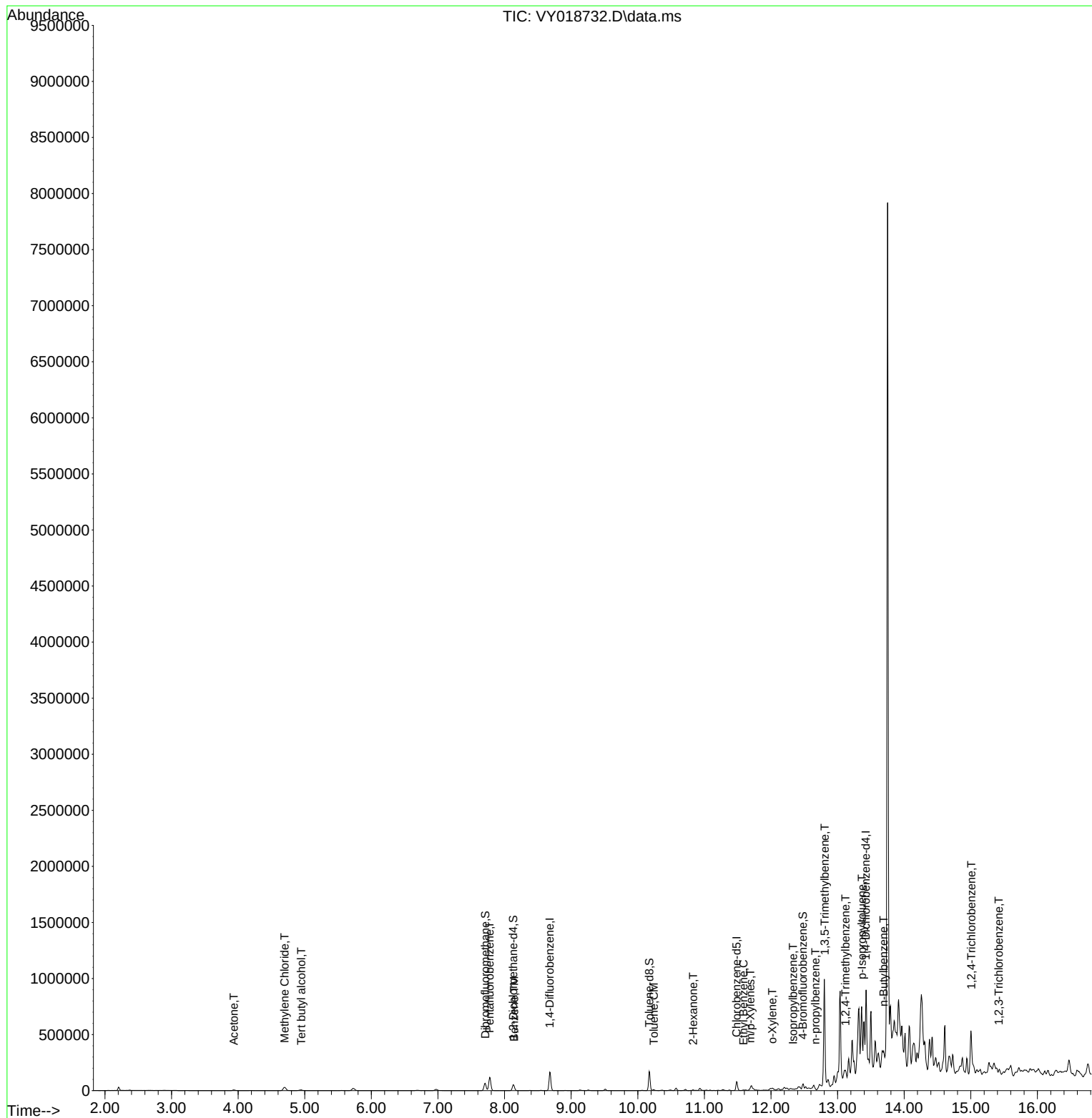
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 7.777  | 168   | 93231    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.679  | 114   | 147286   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.484 | 117   | 44726    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.422 | 152   | 12757    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.130  | 65    | 37155    | 39.584   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =      | 79.160%  |
| 35) Dibromofluoromethane    | 7.710  | 113   | 46709    | 51.987   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =      | 103.980% |
| 50) Toluene-d8              | 10.173 | 98    | 109058   | 31.563   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =      | 63.120%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 10078    | 9.237    | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =      | 18.480%# |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol      | 4.948  | 59    | 12165    | 72.051   | ug/l # | 74       |
| 16) Acetone                 | 3.936  | 43    | 11955    | 62.602   | ug/l # | 80       |
| 20) Methylene Chloride      | 4.698  | 84    | 23534    | 13.446   | ug/l   | 94       |
| 40) Benzene                 | 8.143  | 78    | 5912     | 1.546    | ug/l # | 89       |
| 52) Toluene                 | 10.240 | 92    | 4140     | 1.686    | ug/l   | 83       |
| 59) 2-Hexanone              | 10.831 | 43    | 5670     | 14.123   | ug/l   | 80       |
| 67) Ethyl Benzene           | 11.587 | 91    | 3084     | 1.924    | ug/l # | 80       |
| 68) m/p-Xylenes             | 11.691 | 106   | 5549     | 8.895    | ug/l   | 96       |
| 69) o-Xylene                | 12.020 | 106   | 3849     | 6.416    | ug/l   | 93       |
| 73) Isopropylbenzene        | 12.331 | 105   | 2486     | 2.669    | ug/l   | 98       |
| 78) n-propylbenzene         | 12.666 | 91    | 3608     | 3.309    | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.806 | 105   | 14459    | 19.584   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.117 | 105   | 25897    | 35.094   | ug/l   | 100      |
| 86) p-Isopropyltoluene      | 13.367 | 119   | 9997     | 12.100   | ug/l   | 98       |
| 89) n-Butylbenzene          | 13.690 | 91    | 50966    | 68.438   | ug/l # | 76       |
| 93) 1,2,4-Trichlorobenzene  | 15.007 | 180   | 99019    | 478.810  | ug/l # | 90       |
| 96) 1,2,3-Trichlorobenzene  | 15.422 | 180   | 22056    | 126.228  | ug/l # | 75       |
| -----                       |        |       |          |          |        |          |

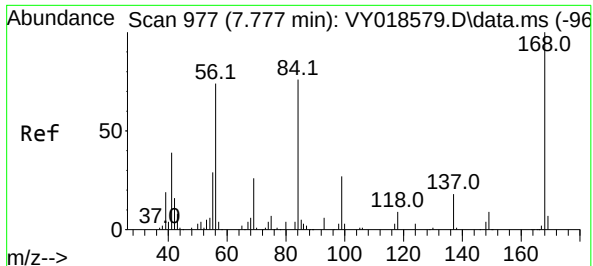
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062824\  
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Instrument :  
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Quant Title : SW846 8260  
QLast Update : Fri Jun 14 07:08:24 2024  
Response via : Initial Calibration

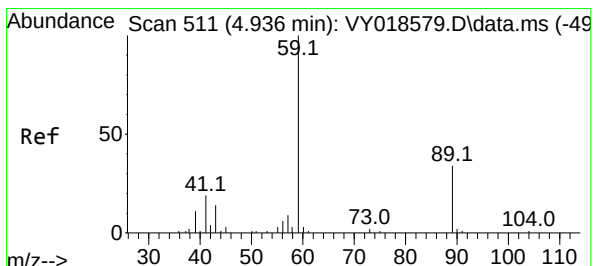
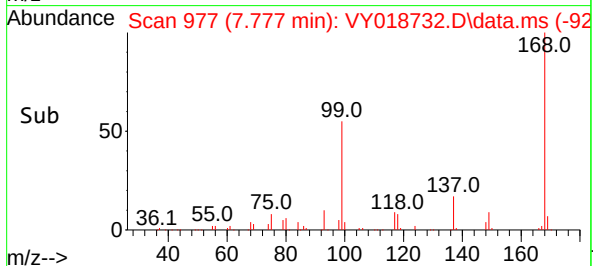
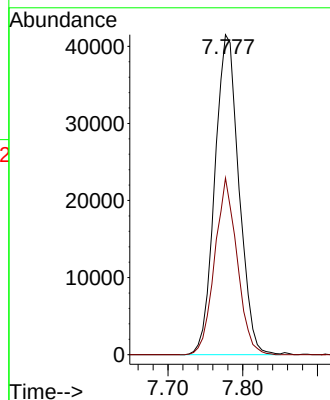
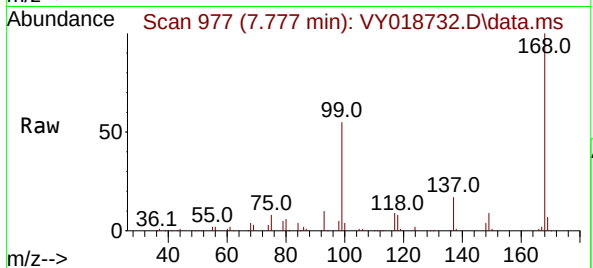




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

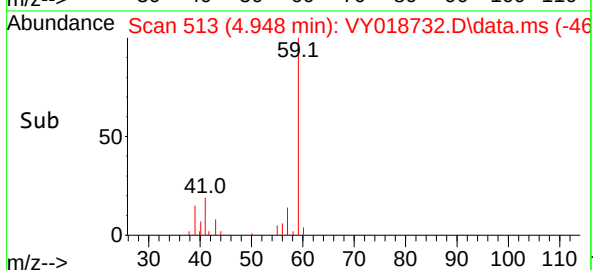
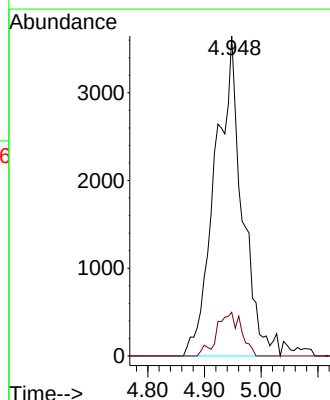
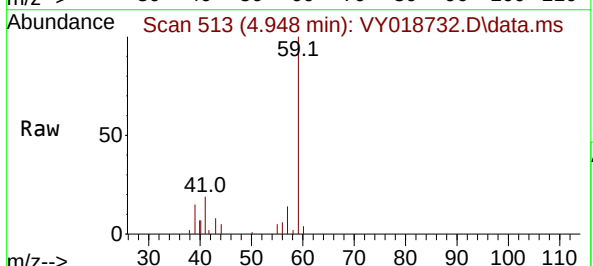
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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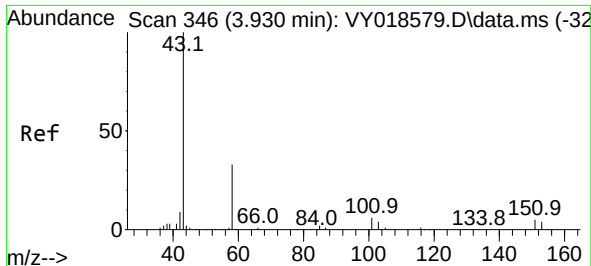
Tgt Ion:168 Resp: 93231  
Ion Ratio Lower Upper  
168 100  
99 55.2 39.1 58.7



#11  
Tert butyl alcohol  
Concen: 72.051 ug/l  
RT: 4.948 min Scan# 513  
Delta R.T. 0.012 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

Tgt Ion: 59 Resp: 12165  
Ion Ratio Lower Upper  
59 100  
57 12.3 3.0 4.6#





#16

Acetone

Concen: 62.602 ug/l

RT: 3.936 min Scan# 346

Delta R.T. 0.006 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

Instrument :

MSVOA\_Y

ClientSampleId :

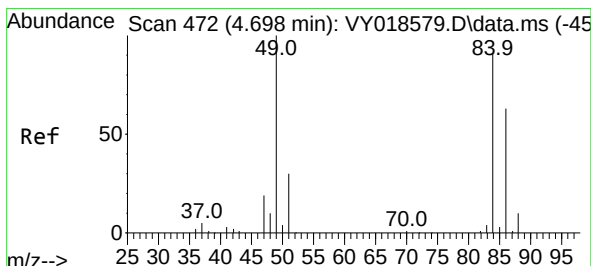
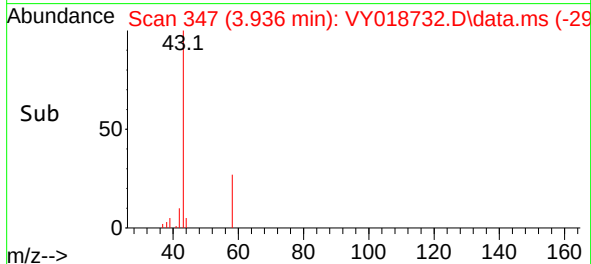
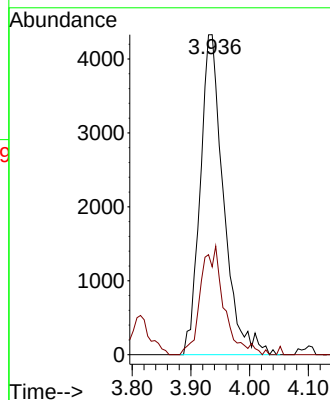
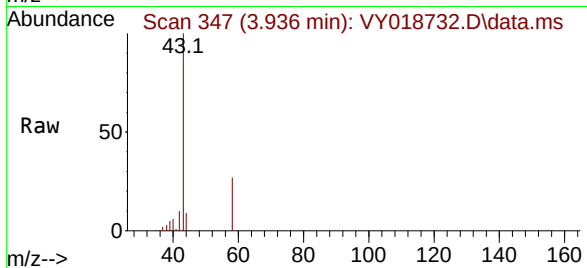
20071

Tgt Ion: 43 Resp: 11955

Ion Ratio Lower Upper

43 100

58 27.5 31.7 47.5#



#20

Methylene Chloride

Concen: 13.446 ug/l

RT: 4.698 min Scan# 472

Delta R.T. 0.000 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

Tgt Ion: 84 Resp: 23534

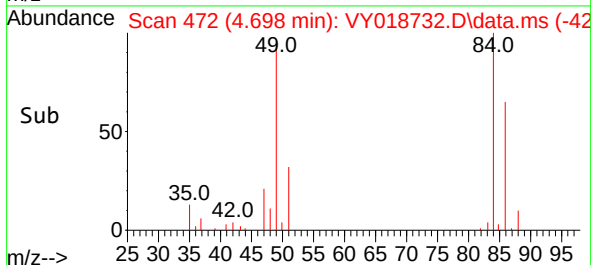
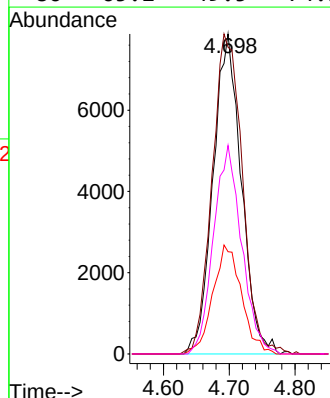
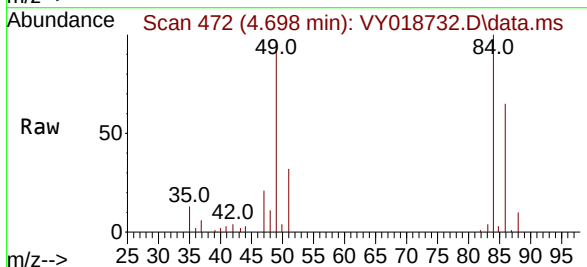
Ion Ratio Lower Upper

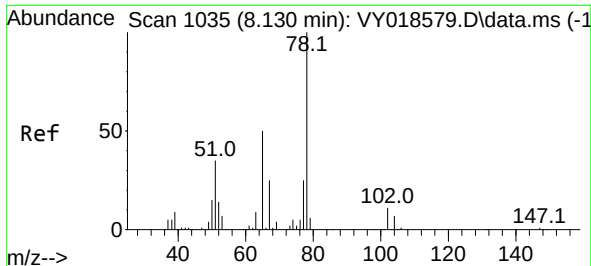
84 100

49 95.8 84.4 126.6

51 32.0 26.0 39.0

86 65.2 49.5 74.3

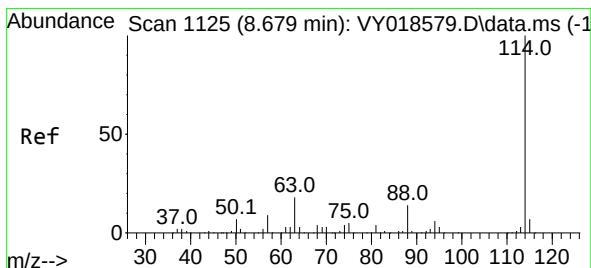
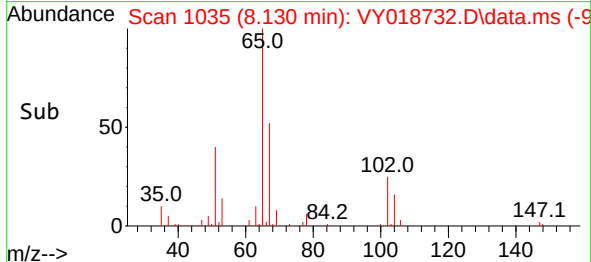
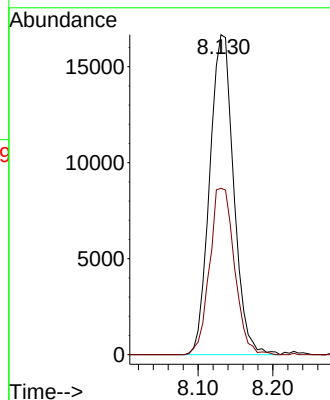
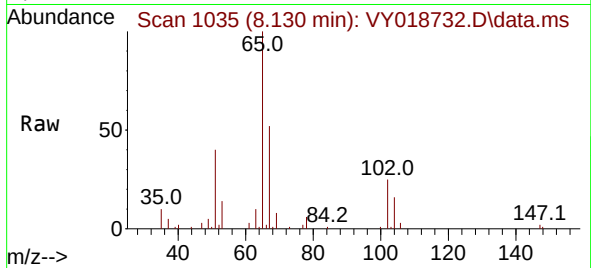




#33  
1,2-Dichloroethane-d4  
Concen: 39.584 ug/l  
RT: 8.130 min Scan# 1035  
Delta R.T. 0.000 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

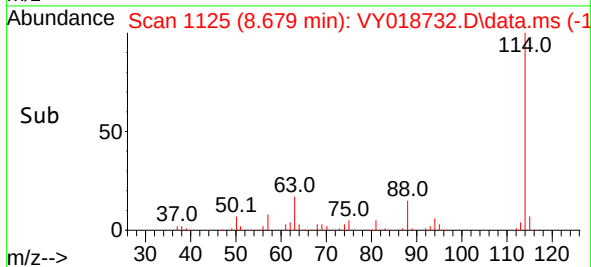
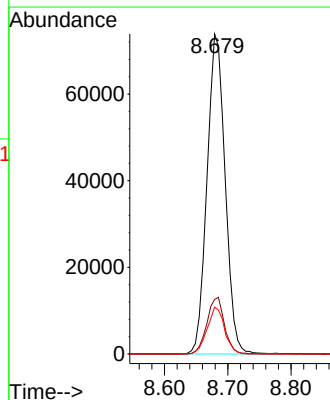
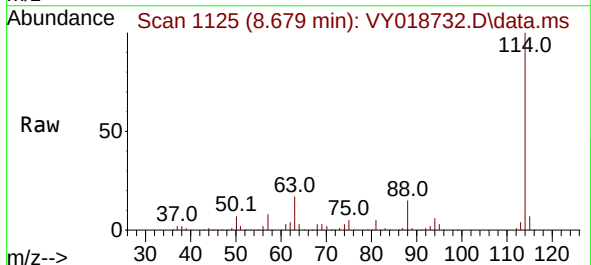
Instrument :  
MSVOA\_Y  
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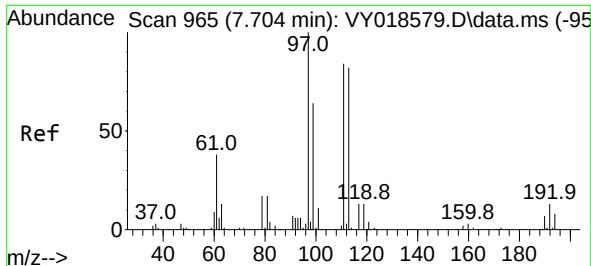
Tgt Ion: 65 Resp: 37155  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 109.6



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.679 min Scan# 1125  
Delta R.T. 0.000 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

Tgt Ion:114 Resp: 147286  
Ion Ratio Lower Upper  
114 100  
63 17.0 0.0 35.0  
88 14.6 0.0 27.2

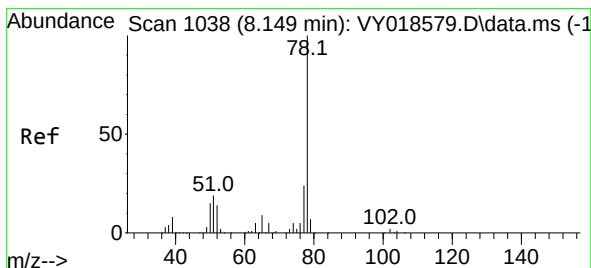
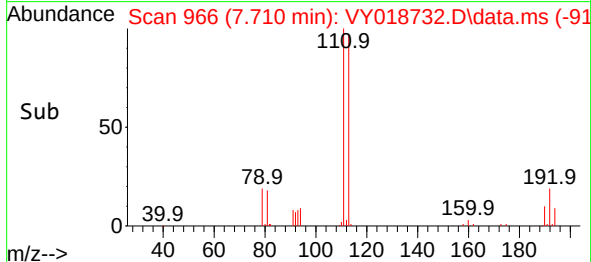
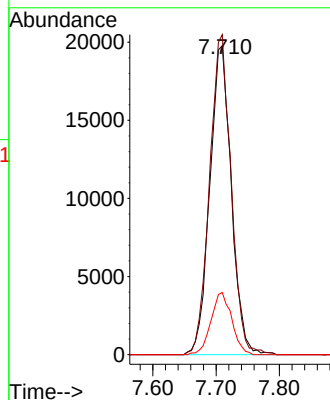
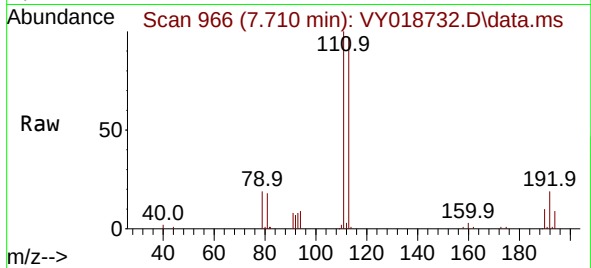




#35  
Dibromofluoromethane  
Concen: 51.987 ug/l  
RT: 7.710 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

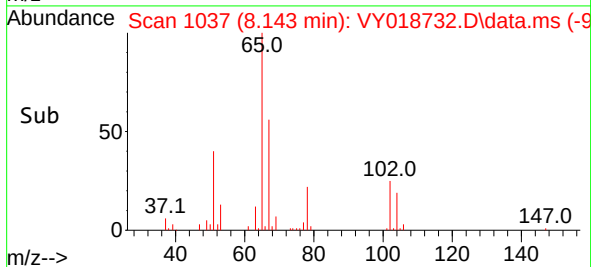
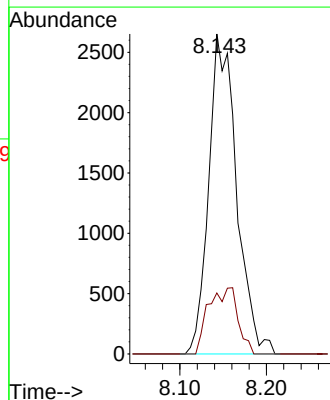
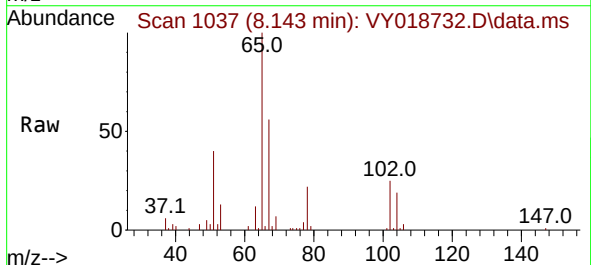
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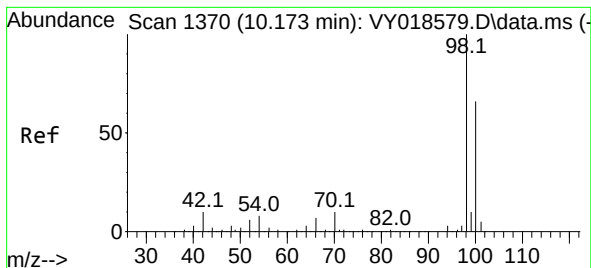
Tgt Ion:113 Resp: 46709  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.2 123.4  
192 19.5 15.9 23.9



#40  
Benzene  
Concen: 1.546 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. -0.006 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

Tgt Ion: 78 Resp: 5912  
Ion Ratio Lower Upper  
78 100  
77 19.0 19.5 29.3#





#50

Toluene-d8

Concen: 31.563 ug/l

RT: 10.173 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

Instrument :

MSVOA\_Y

ClientSampleId :

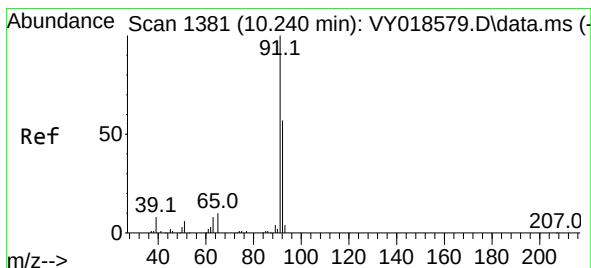
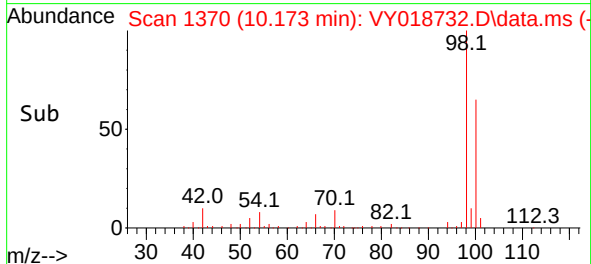
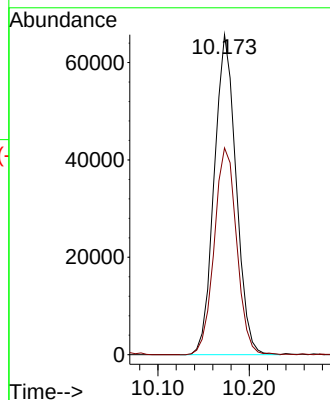
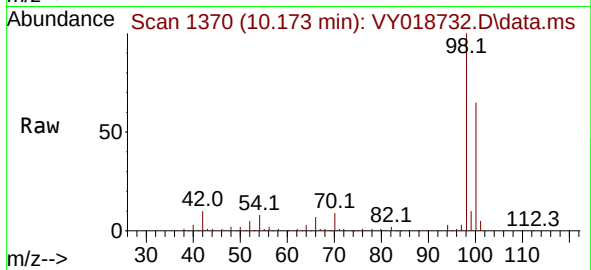
20071

Tgt Ion: 98 Resp: 109058

Ion Ratio Lower Upper

98 100

100 66.4 52.0 78.0



#52

Toluene

Concen: 1.686 ug/l

RT: 10.240 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VY018732.D

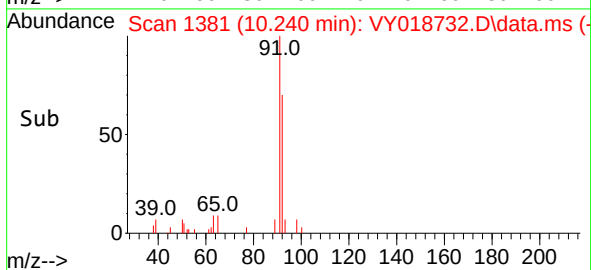
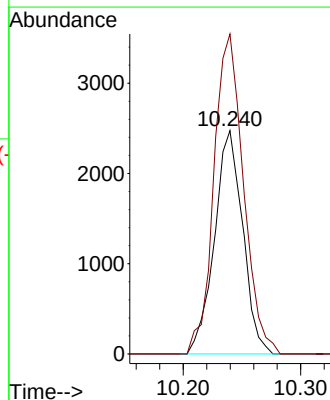
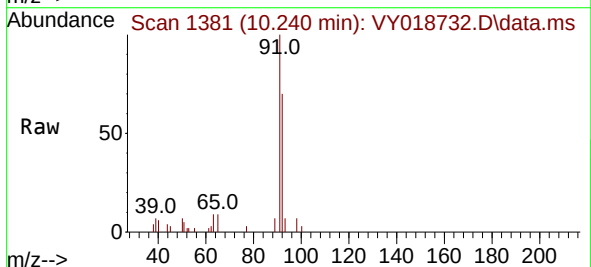
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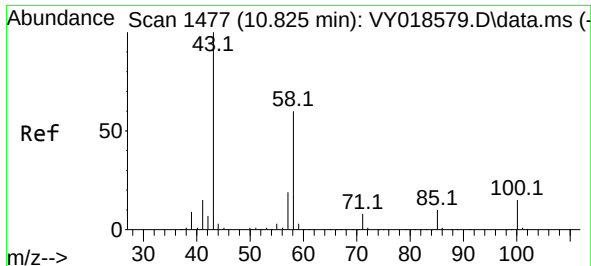
Tgt Ion: 92 Resp: 4140

Ion Ratio Lower Upper

92 100

91 149.8 139.0 208.6

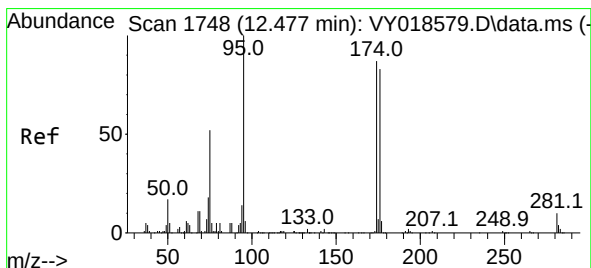
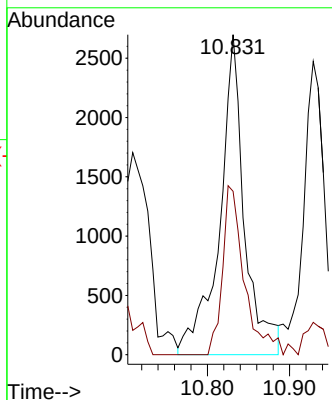
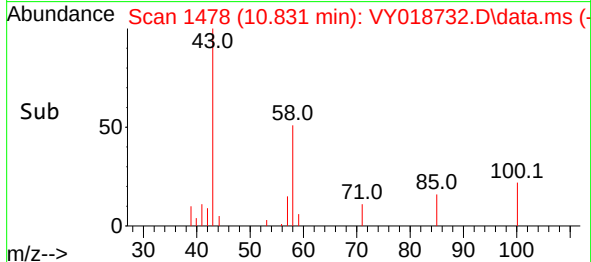
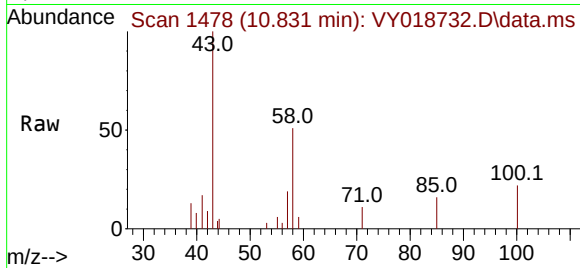




#59  
2-Hexanone  
Concen: 14.123 ug/l  
RT: 10.831 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

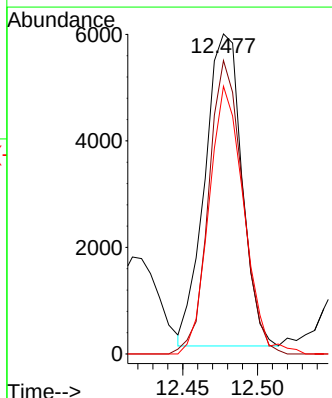
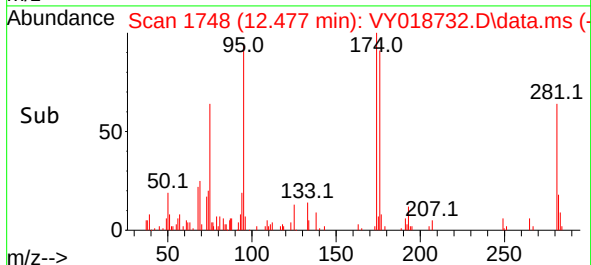
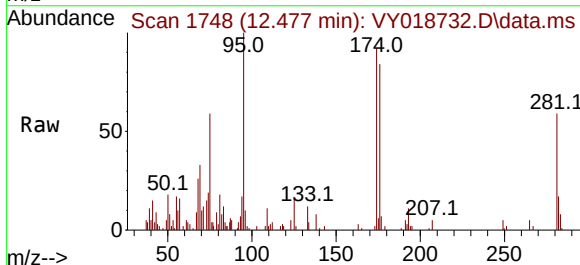
Instrument :  
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Tgt Ion: 43 Resp: 5670  
Ion Ratio Lower Upper  
43 100  
58 47.0 31.4 94.0

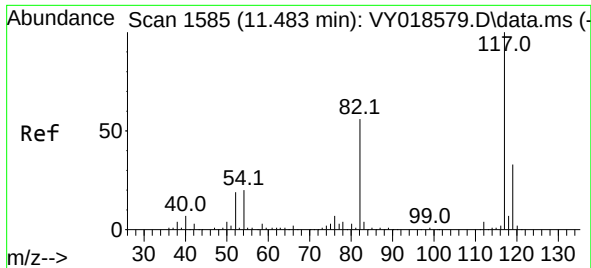


#62  
4-Bromofluorobenzene  
Concen: 9.237 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

Tgt Ion: 95 Resp: 10078  
Ion Ratio Lower Upper  
95 100  
174 86.0 0.0 175.6  
176 81.1 0.0 171.4



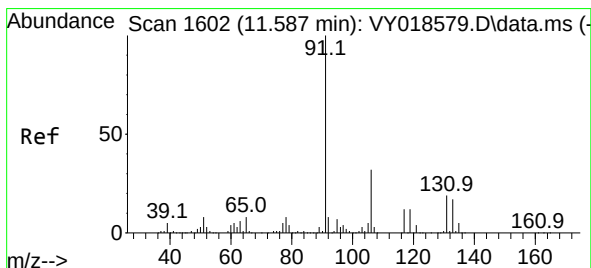
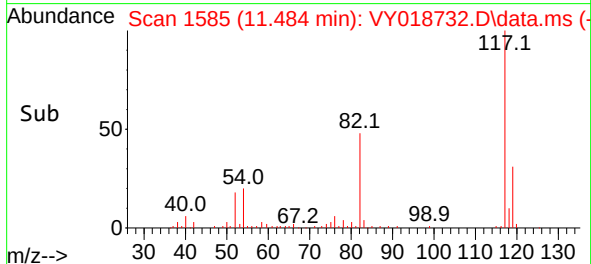
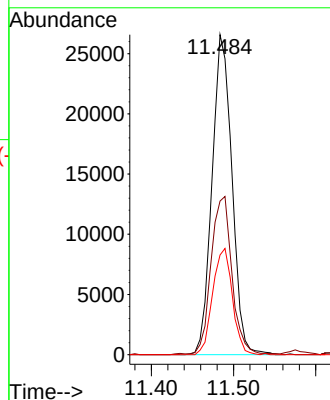
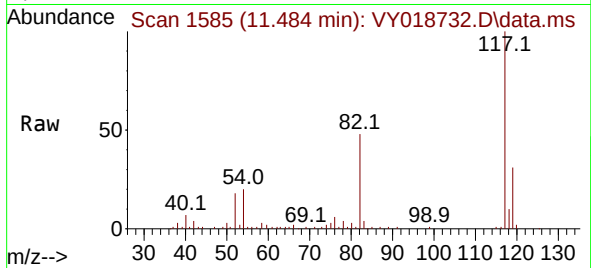




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.484 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

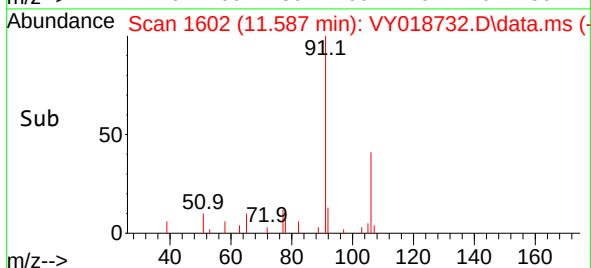
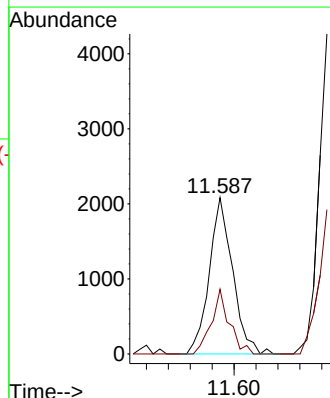
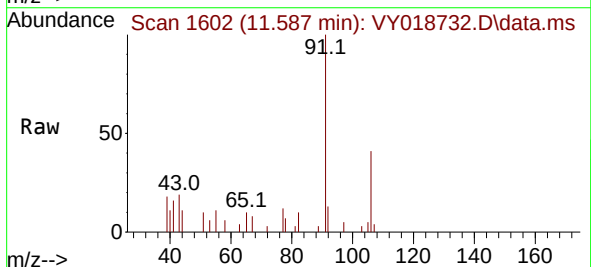
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20071

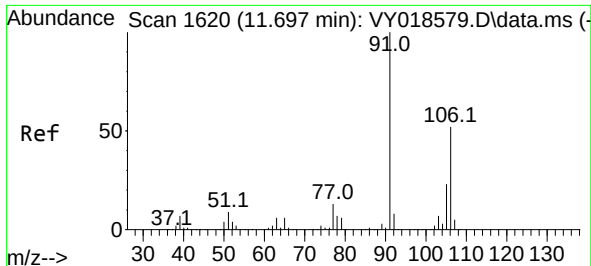
Tgt Ion:117 Resp: 44726  
Ion Ratio Lower Upper  
117 100  
82 47.7 42.4 63.6  
119 31.1 25.9 38.9



#67  
Ethyl Benzene  
Concen: 1.924 ug/l  
RT: 11.587 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

Tgt Ion: 91 Resp: 3084  
Ion Ratio Lower Upper  
91 100  
106 41.4 24.5 36.7#

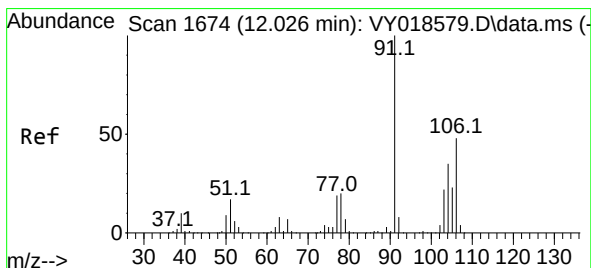
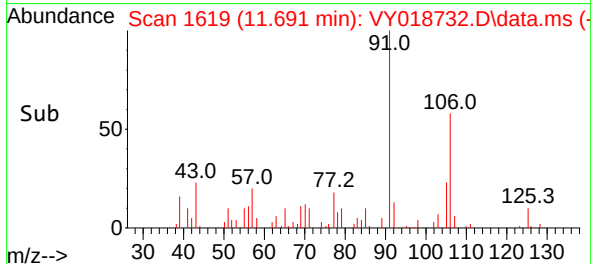
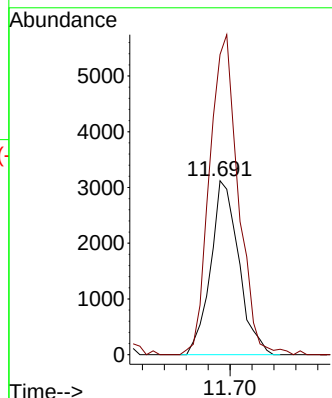
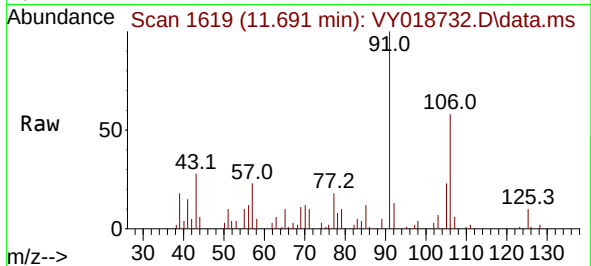




#68  
m/p-Xylenes  
Concen: 8.895 ug/l  
RT: 11.691 min Scan# 1619  
Delta R.T. -0.006 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

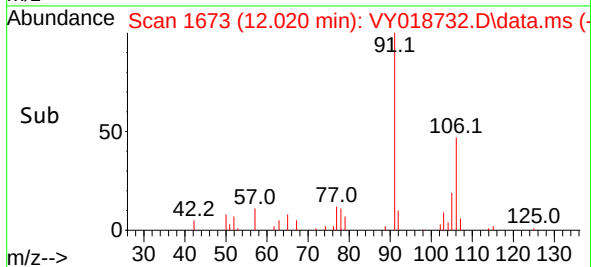
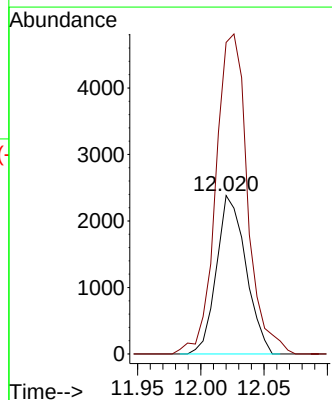
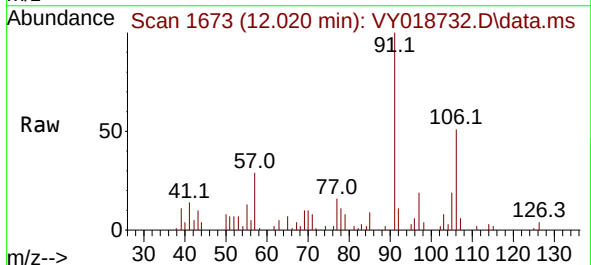
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20071

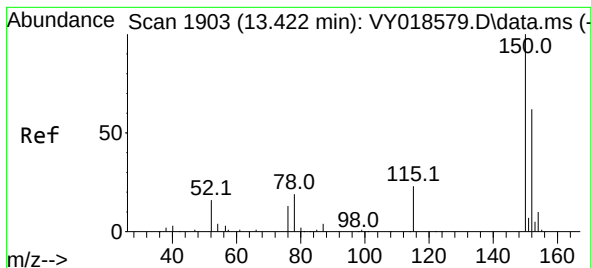
Tgt Ion:106 Resp: 5549  
Ion Ratio Lower Upper  
106 100  
91 188.6 156.0 234.0



#69  
o-Xylene  
Concen: 6.416 ug/l  
RT: 12.020 min Scan# 1673  
Delta R.T. -0.006 min  
Lab File: VY018732.D  
Acq: 28 Jun 2024 16:37

Tgt Ion:106 Resp: 3849  
Ion Ratio Lower Upper  
106 100  
91 217.3 103.6 310.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

Instrument :

MSVOA\_Y

ClientSampleId :

20071

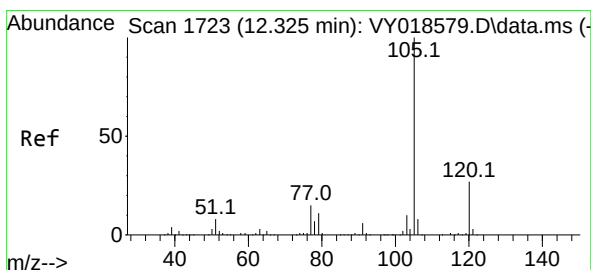
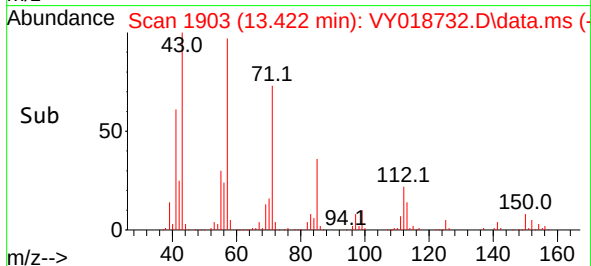
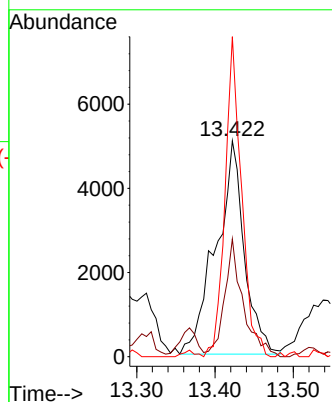
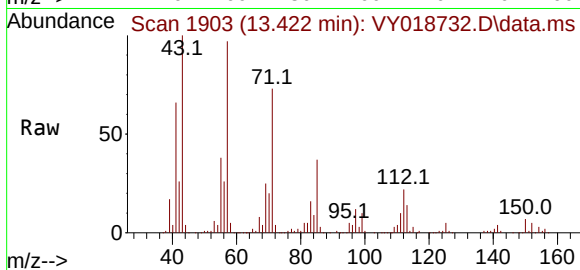
Tgt Ion:152 Resp: 12757

Ion Ratio Lower Upper

152 100

115 36.4 28.2 84.7

150 87.7 0.0 345.6



#73

Isopropylbenzene

Concen: 2.669 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. 0.006 min

Lab File: VY018732.D

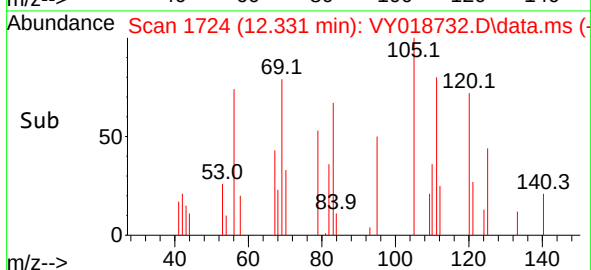
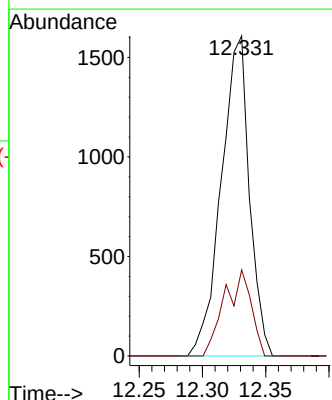
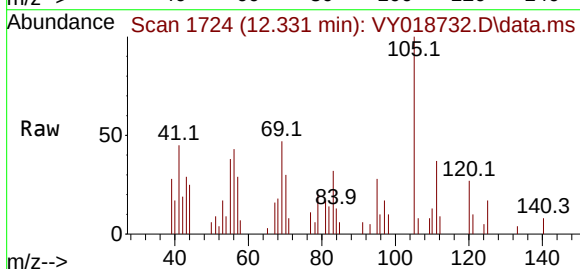
Acq: 28 Jun 2024 16:37

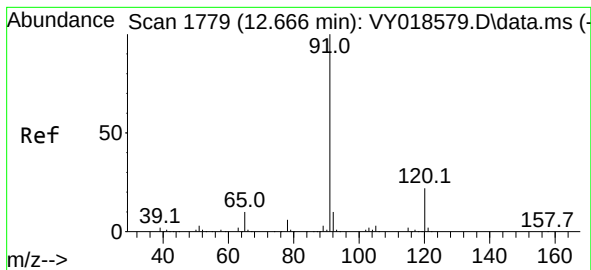
Tgt Ion:105 Resp: 2486

Ion Ratio Lower Upper

105 100

120 25.7 13.4 40.1





#78

n-propylbenzene

Concen: 3.309 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

Instrument :

MSVOA\_Y

ClientSampleId :

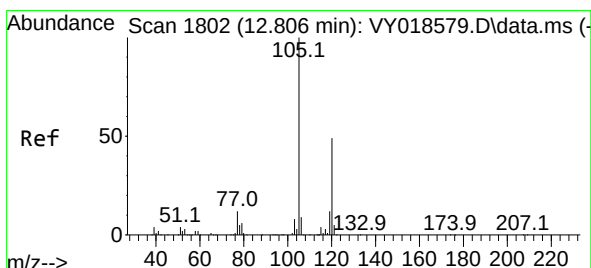
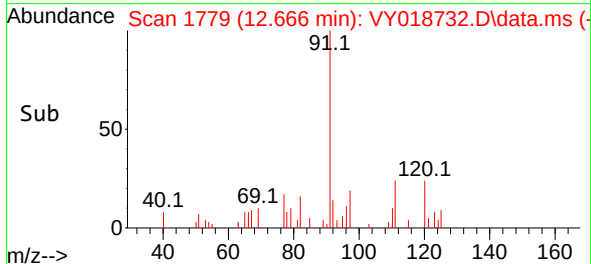
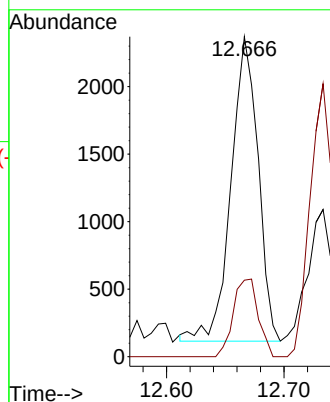
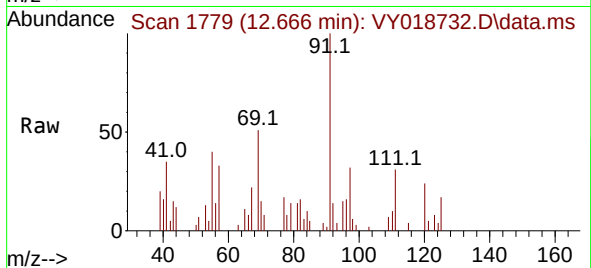
20071

Tgt Ion: 91 Resp: 3608

Ion Ratio Lower Upper

91 100

120 23.4 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 19.584 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. 0.000 min

Lab File: VY018732.D

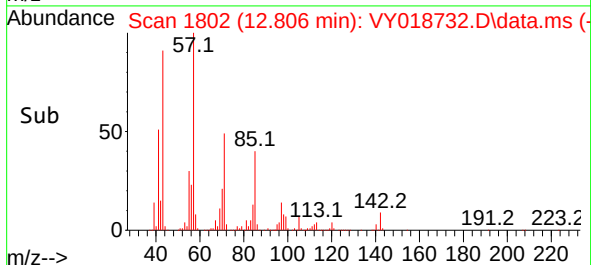
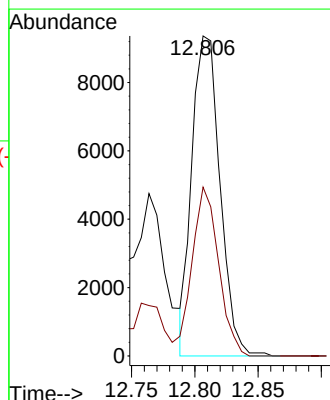
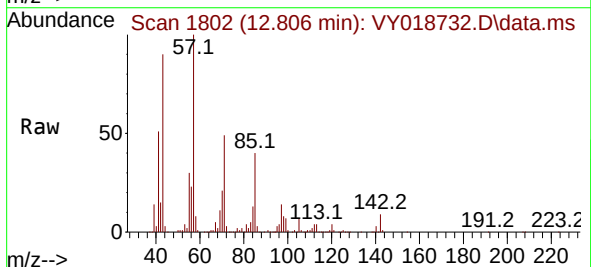
Acq: 28 Jun 2024 16:37

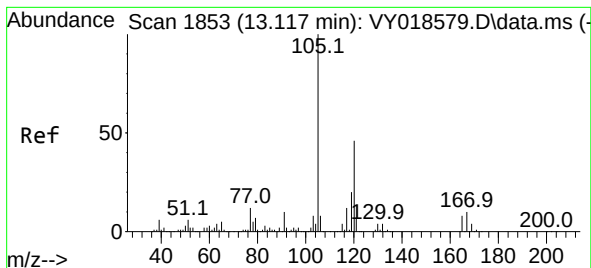
Tgt Ion:105 Resp: 14459

Ion Ratio Lower Upper

105 100

120 50.1 25.1 75.2





#84

1,2,4-Trimethylbenzene

Concen: 35.094 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

Instrument :

MSVOA\_Y

ClientSampleId :

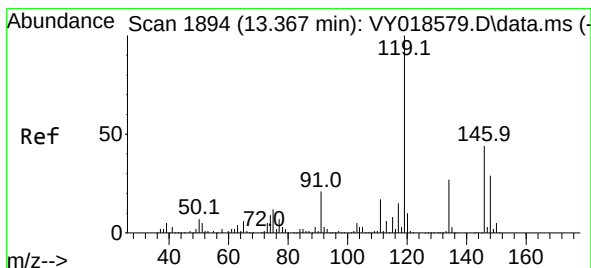
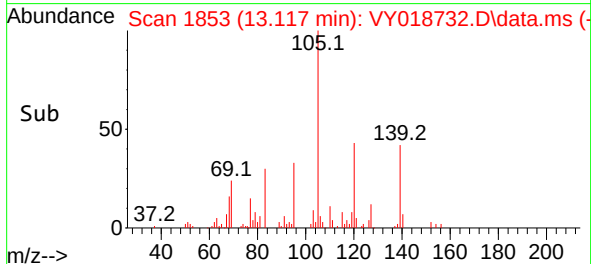
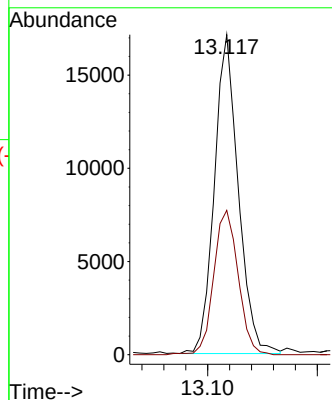
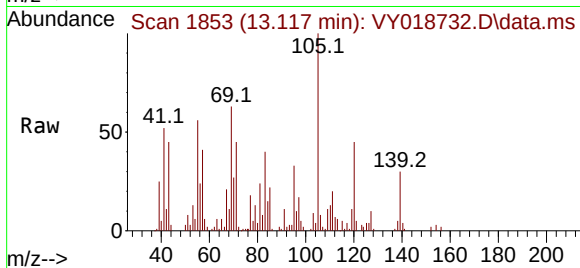
20071

Tgt Ion:105 Resp: 25897

Ion Ratio Lower Upper

105 100

120 46.3 23.2 69.6



#86

p-Isopropyltoluene

Concen: 12.100 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

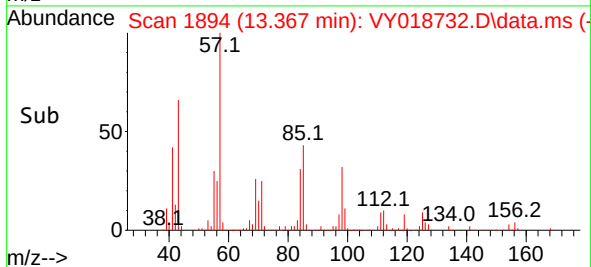
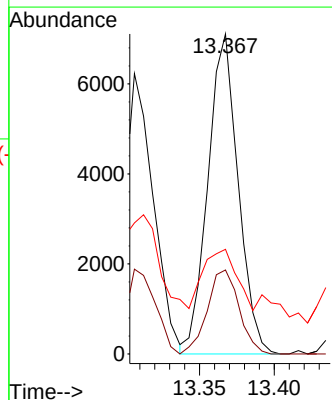
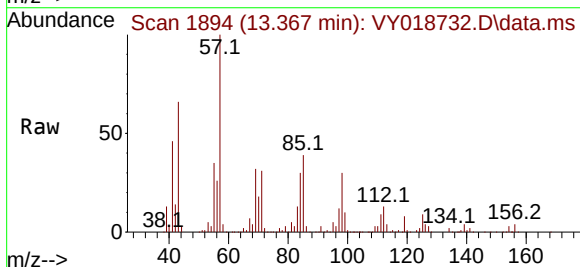
Tgt Ion:119 Resp: 9997

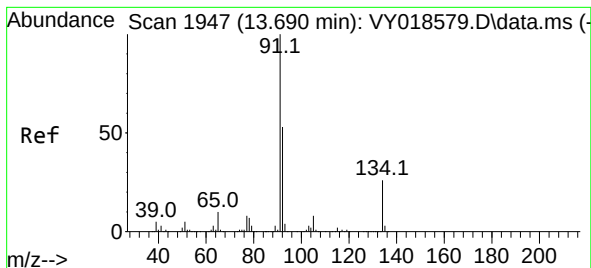
Ion Ratio Lower Upper

119 100

134 27.5 13.1 39.3

91 21.8 10.7 32.1





#89

n-Butylbenzene

Concen: 68.438 ug/l

RT: 13.690 min Scan# 1947

Delta R.T. 0.000 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

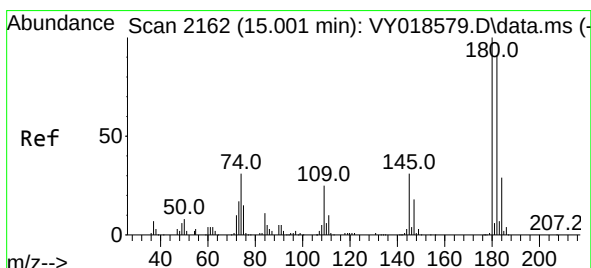
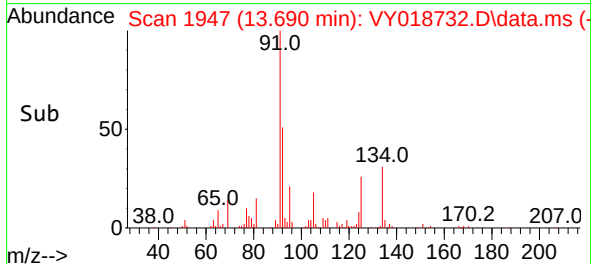
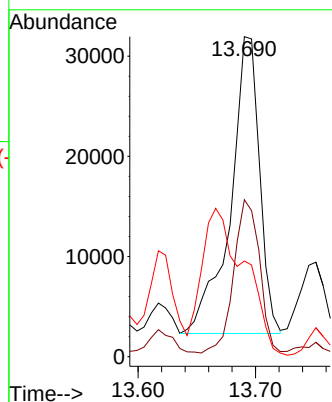
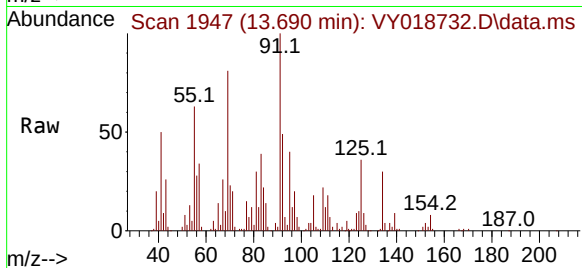
Instrument :

MSVOA\_Y

ClientSampleId :

20071

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 91 | Resp: | 50966      |
| Ion Ratio   | Lower | Upper      |
| 91          | 100   |            |
| 92          | 45.7  | 26.6 79.7  |
| 134         | 0.0   | 12.9 38.7# |



#93

1,2,4-Trichlorobenzene

Concen: 478.810 ug/l

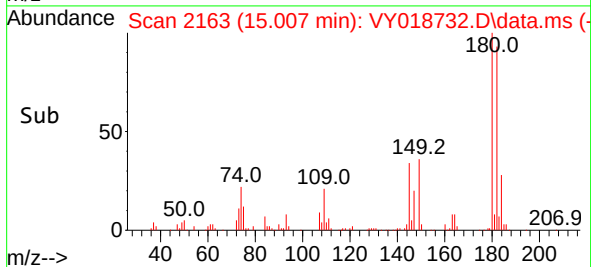
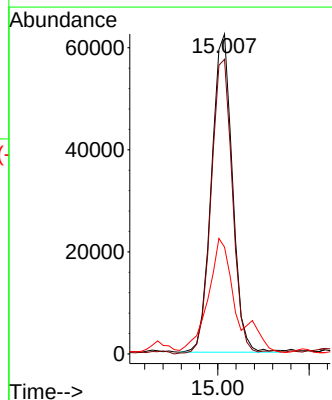
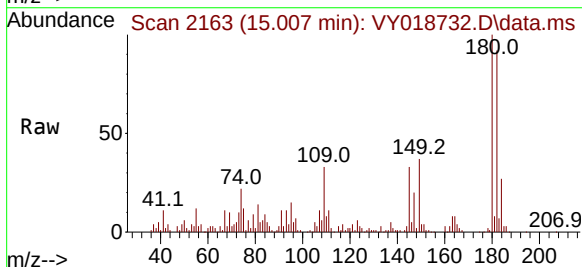
RT: 15.007 min Scan# 2163

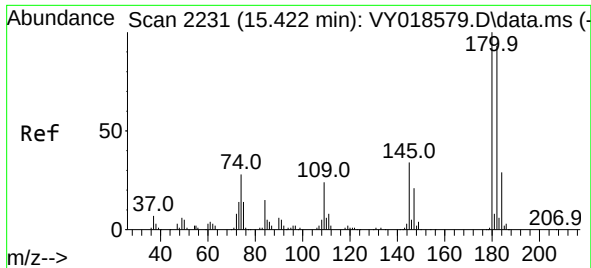
Delta R.T. 0.006 min

Lab File: VY018732.D

Acq: 28 Jun 2024 16:37

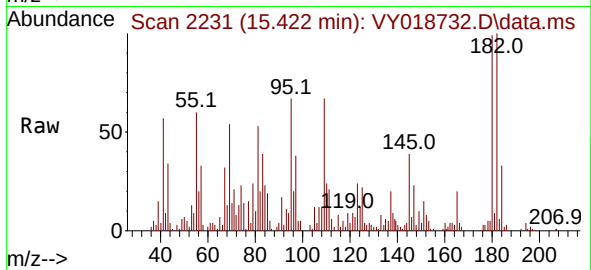
|              |       |            |
|--------------|-------|------------|
| Tgt Ion: 180 | Resp: | 99019      |
| Ion Ratio    | Lower | Upper      |
| 180          | 100   |            |
| 182          | 94.5  | 47.9 143.8 |
| 145          | 49.4  | 14.2 42.6# |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 126.228 ug/l  
 RT: 15.422 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VY018732.D  
 Acq: 28 Jun 2024 16:37

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20071



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 22056 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 76.7  | 47.6  | 142.9 |
| 145       | 54.3  | 15.4  | 46.1# |

