

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081424\  
 Data File : VY019061.D  
 Acq On : 14 Aug 2024 16:15  
 Operator : SY/MD  
 Sample : P3512-01  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 14 21:47:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080824S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 09 04:24:33 2024  
 Response via : Initial Calibration

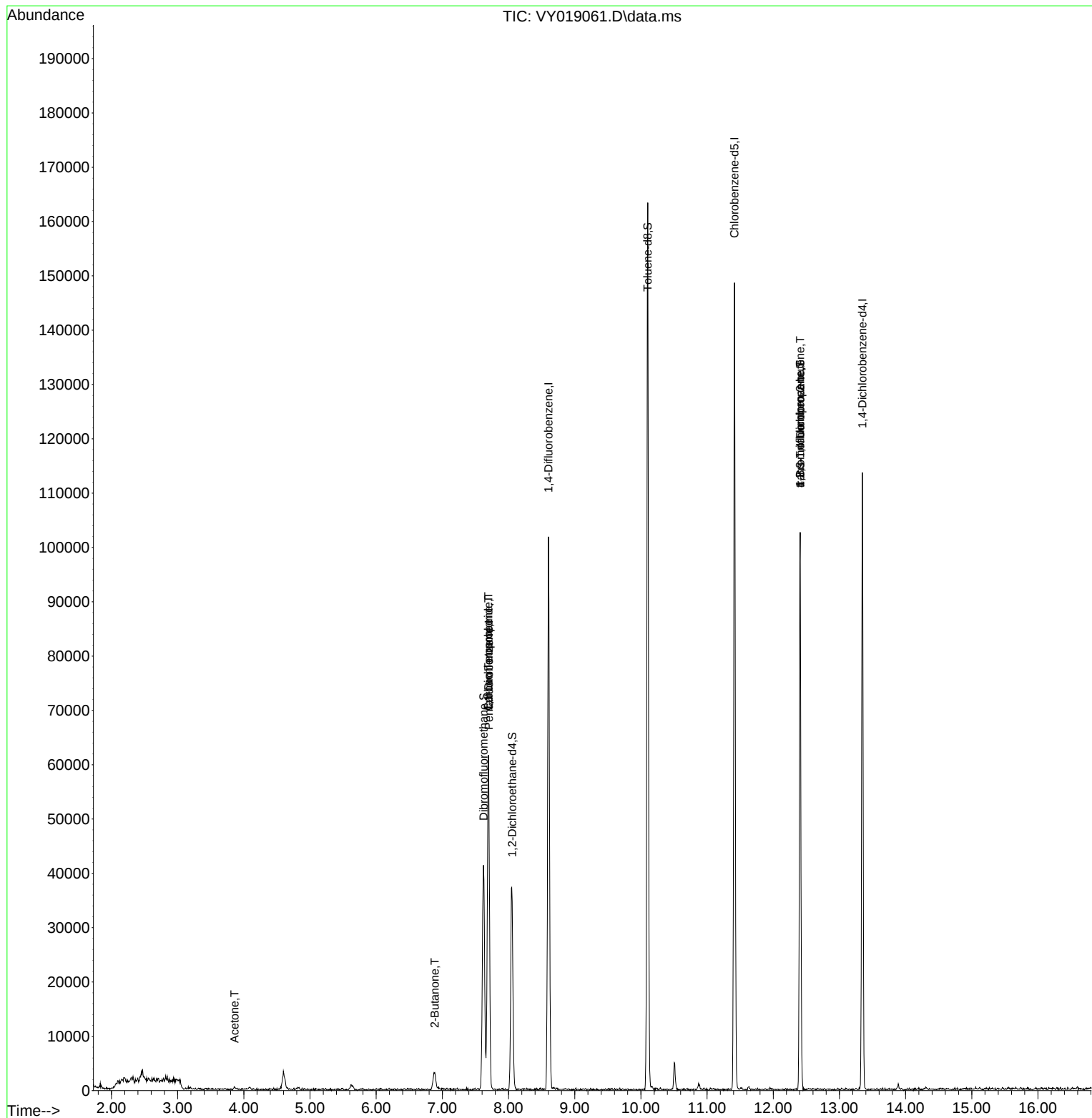
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.701  | 168   | 49949    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.603  | 114   | 83423    | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 71442    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346 | 152   | 26004    | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.055  | 65    | 22853    | 52.111    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 104.220% |          |
| 35) Dibromofluoromethane      | 7.622  | 113   | 27374    | 51.376    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 102.760% |          |
| 50) Toluene-d8                | 10.103 | 98    | 95667    | 46.745    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 93.500%  |          |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 24090    | 39.676    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 29 - 146 | Recovery  | = 79.360%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.190  | 50    | 46       | Below Cal | #          | 43       |
| 11) Tert butyl alcohol        | 4.811  | 59    | 151      | Below Cal | #          | 88       |
| 16) Acetone                   | 3.860  | 43    | 563      | 17.243    | ug/l #     | 36       |
| 20) Methylene Chloride        | 4.604  | 84    | 1924     | Below Cal | #          | 87       |
| 25) 2-Butanone                | 6.884  | 43    | 316      | 2.225     | ug/l #     | 41       |
| 31) Cyclohexane               | 7.695  | 56    | 1176     | Below Cal | #          | 47       |
| 36) 1,1-Dichloropropene       | 7.695  | 75    | 3774     | 5.277     | ug/l #     | 46       |
| 38) Carbon Tetrachloride      | 7.695  | 117   | 4148     | 5.058     | ug/l #     | 20       |
| 41) Methacrylonitrile         | 7.256  | 41    | 19       | Below Cal | #          | 15       |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 14109    | 72.830    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 14109    | 150.072   | ug/l #     | 16       |
| -----                         |        |       |          |           |            |          |

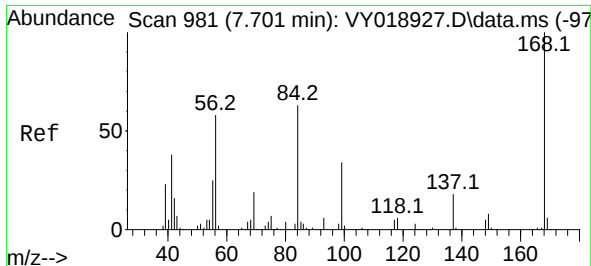
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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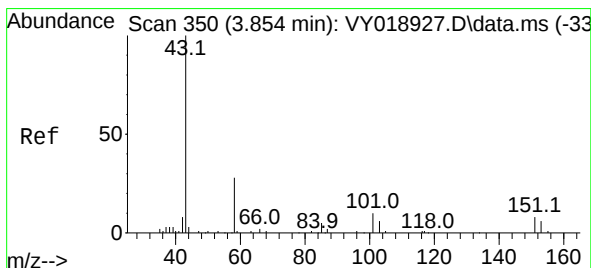
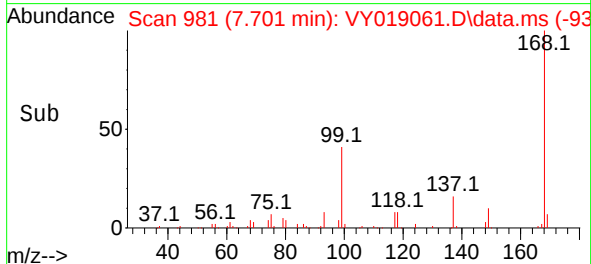
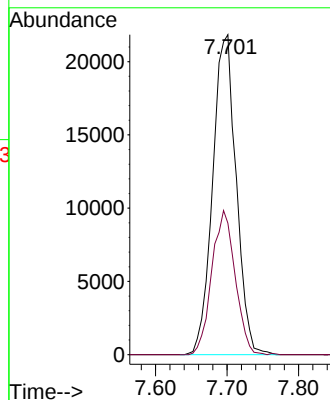
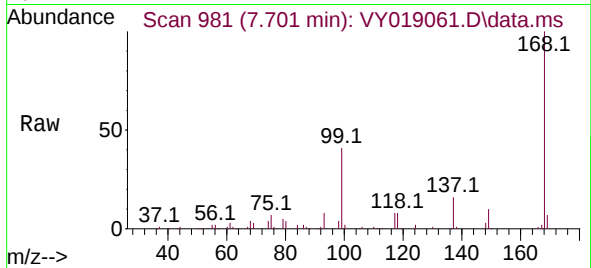




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: VY019061.D  
Acq: 14 Aug 2024 16:15

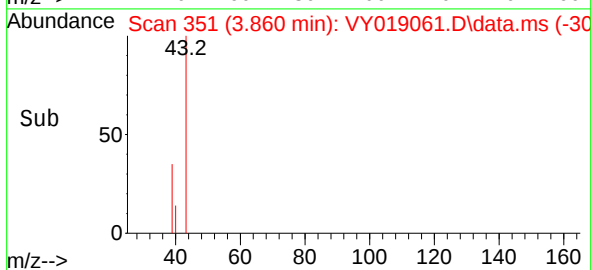
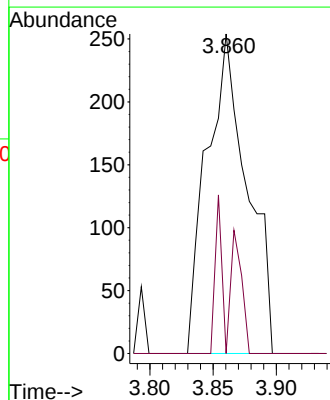
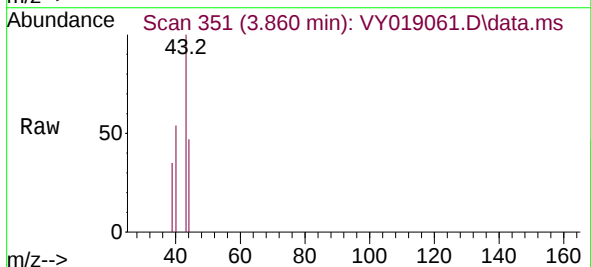
Instrument :  
MSVOA\_Y  
ClientSampleId :

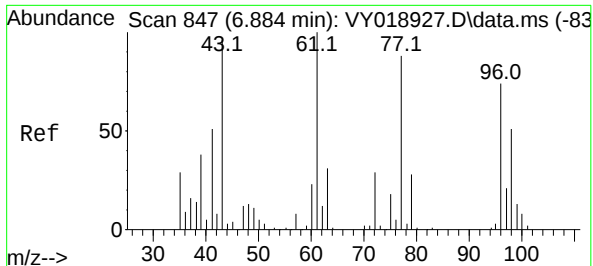
Tgt Ion:168 Resp: 49949  
Ion Ratio Lower Upper  
168 100  
99 41.1 39.1 58.7



#16  
Acetone  
Concen: 17.243 ug/l  
RT: 3.860 min Scan# 351  
Delta R.T. 0.006 min  
Lab File: VY019061.D  
Acq: 14 Aug 2024 16:15

Tgt Ion: 43 Resp: 563  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 47.5#





#25

2-Butanone

Concen: 2.225 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.000 min

Lab File: VY019061.D

Acq: 14 Aug 2024 16:15

Instrument :

MSVOA\_Y

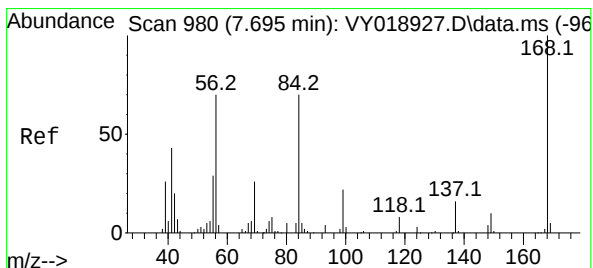
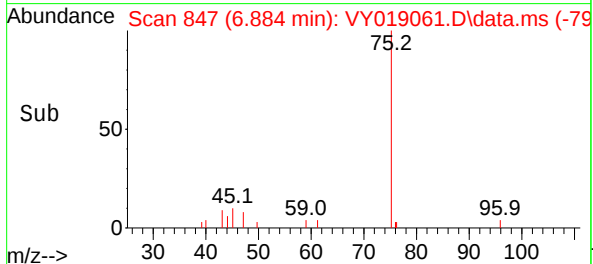
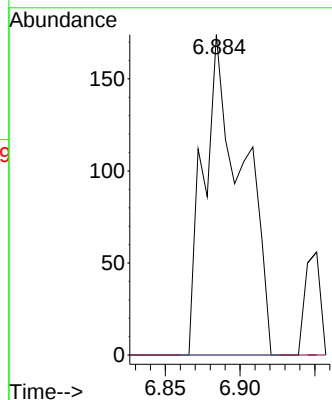
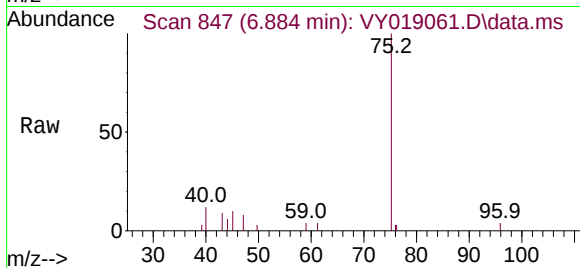
ClientSampleId :

Tgt Ion: 43 Resp: 316

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#31

Cyclohexane

Concen: Below Cal

RT: 7.695 min Scan# 980

Delta R.T. -0.000 min

Lab File: VY019061.D

Acq: 14 Aug 2024 16:15

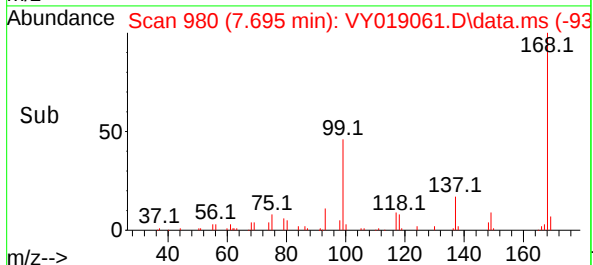
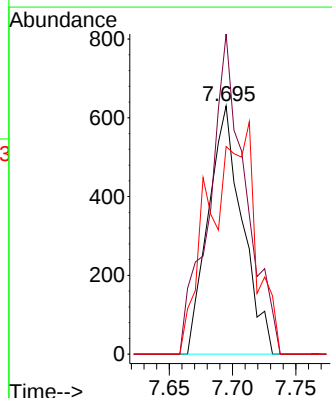
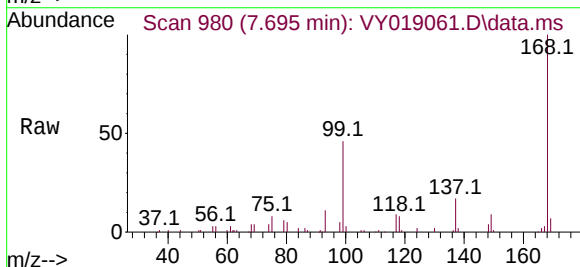
Tgt Ion: 56 Resp: 1176

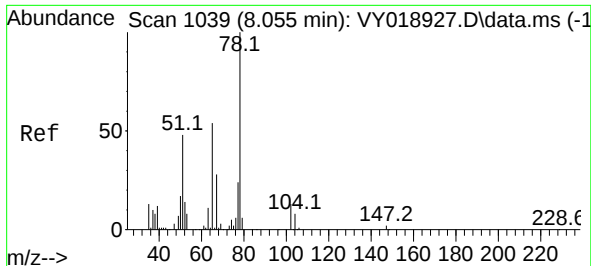
Ion Ratio Lower Upper

56 100

69 129.0 28.7 43.1#

84 83.7 77.7 116.5

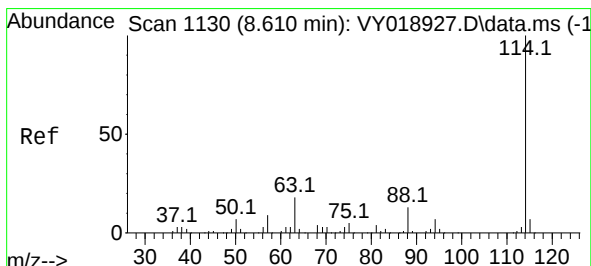
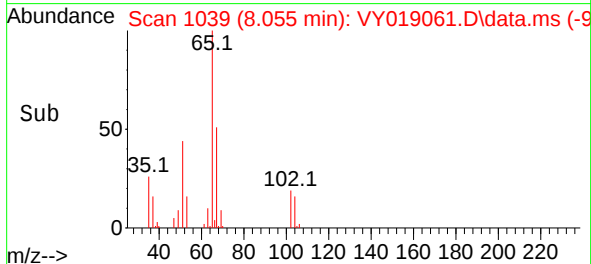
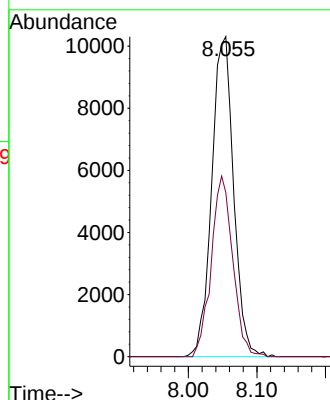
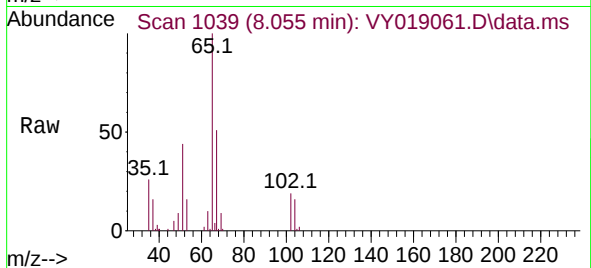




#33  
1,2-Dichloroethane-d4  
Concen: 52.111 ug/l  
RT: 8.055 min Scan# 1109  
Delta R.T. -0.000 min  
Lab File: VY019061.D  
Acq: 14 Aug 2024 16:15

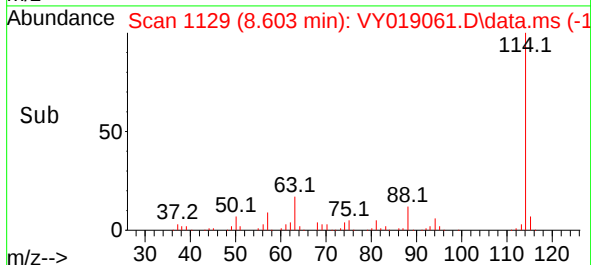
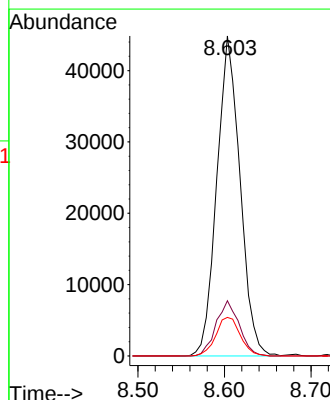
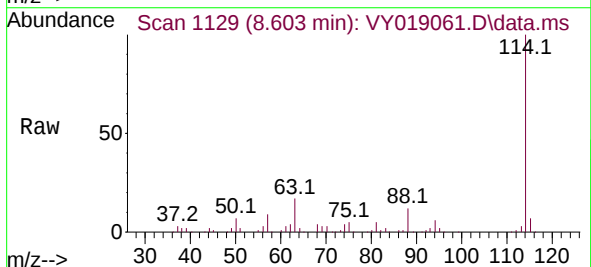
Instrument :  
MSVOA\_Y  
ClientSampleId :

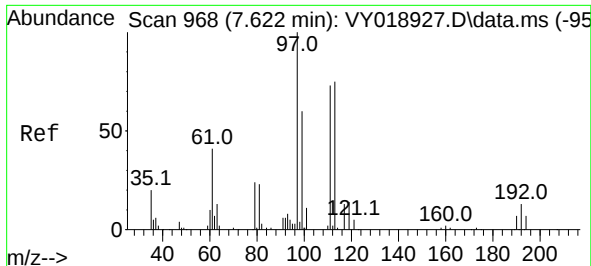
Tgt Ion: 65 Resp: 22853  
Ion Ratio Lower Upper  
65 100  
67 55.4 0.0 109.6



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.603 min Scan# 1129  
Delta R.T. -0.006 min  
Lab File: VY019061.D  
Acq: 14 Aug 2024 16:15

Tgt Ion:114 Resp: 83423  
Ion Ratio Lower Upper  
114 100  
63 17.3 0.0 35.0  
88 12.1 0.0 27.2

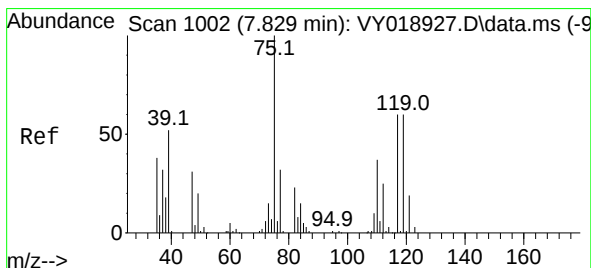
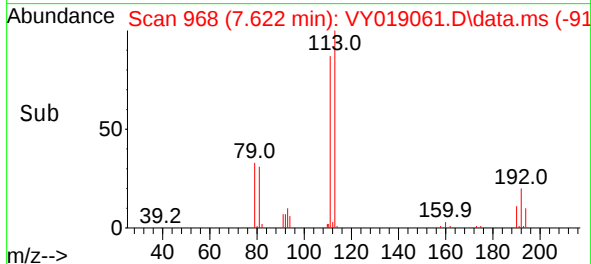
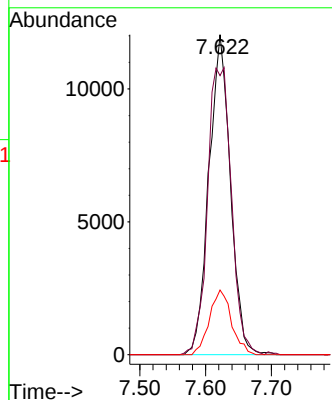
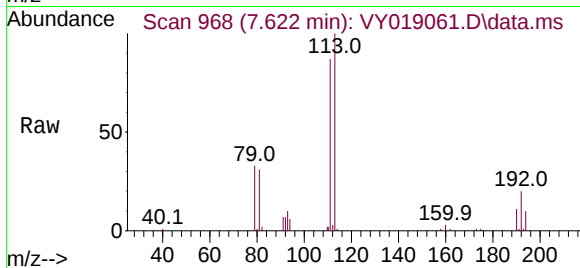




#35  
Dibromofluoromethane  
Concen: 51.376 ug/l  
RT: 7.622 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY019061.D  
Acq: 14 Aug 2024 16:15

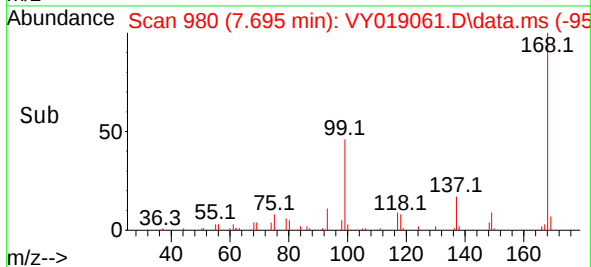
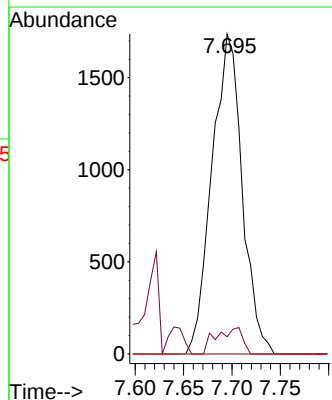
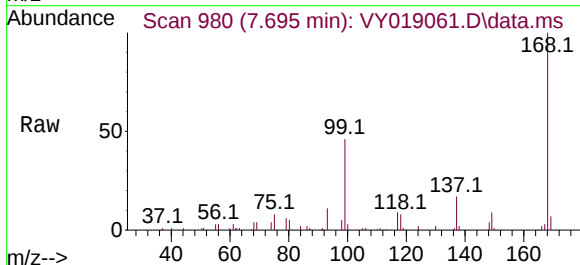
Instrument :  
MSVOA\_Y  
ClientSampleId :

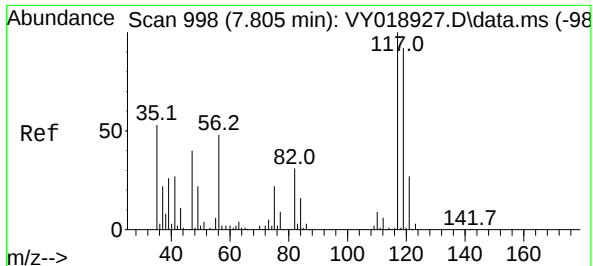
Tgt Ion:113 Resp: 27374  
Ion Ratio Lower Upper  
113 100  
111 99.7 82.2 123.4  
192 20.8 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 5.277 ug/l  
RT: 7.695 min Scan# 980  
Delta R.T. -0.134 min  
Lab File: VY019061.D  
Acq: 14 Aug 2024 16:15

Tgt Ion: 75 Resp: 3774  
Ion Ratio Lower Upper  
75 100  
110 7.2 19.0 57.0#  
77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 5.058 ug/l

RT: 7.695 min Scan# 91

Delta R.T. -0.110 min

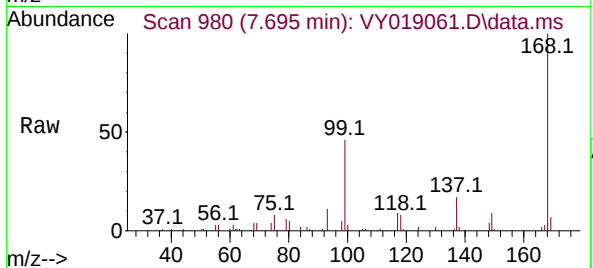
Lab File: VY019061.D

Acq: 14 Aug 2024 16:15

Instrument :

MSVOA\_Y

ClientSampleId :



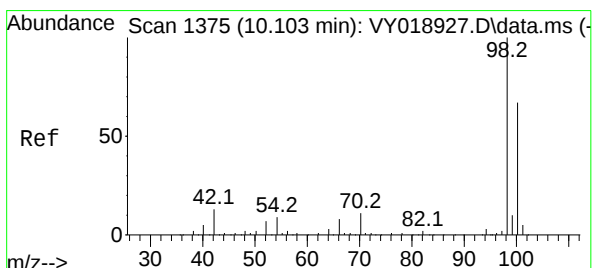
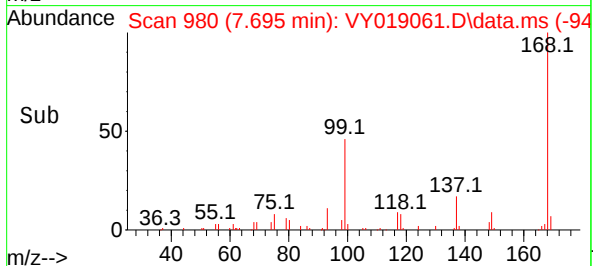
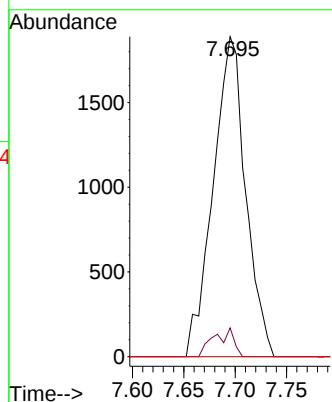
Tgt Ion:117 Resp: 4148

Ion Ratio Lower Upper

117 100

119 9.0 75.8 113.6#

121 0.0 24.0 36.0#



#50

Toluene-d8

Concen: 46.745 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY019061.D

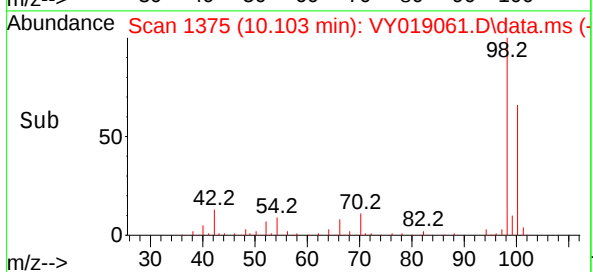
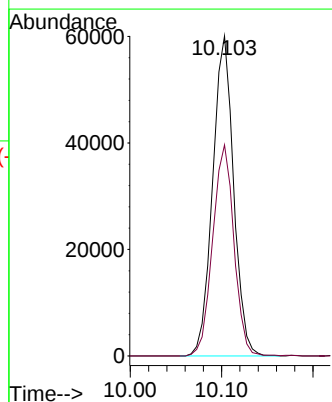
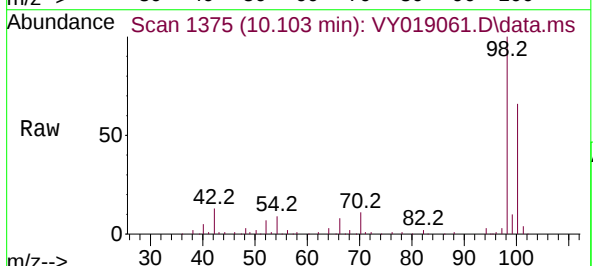
Acq: 14 Aug 2024 16:15

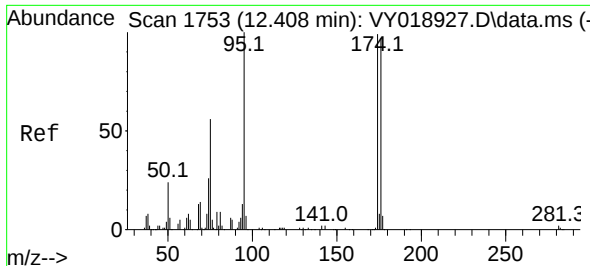
Tgt Ion: 98 Resp: 95667

Ion Ratio Lower Upper

98 100

100 66.9 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 39.676 ug/l

RT: 12.408 min Scan# 1

Delta R.T. -0.000 min

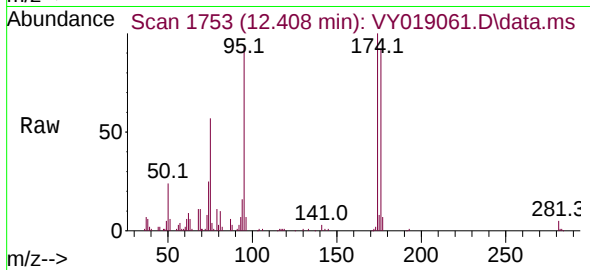
Lab File: VY019061.D

Acq: 14 Aug 2024 16:15

Instrument :

MSVOA\_Y

ClientSampleId :



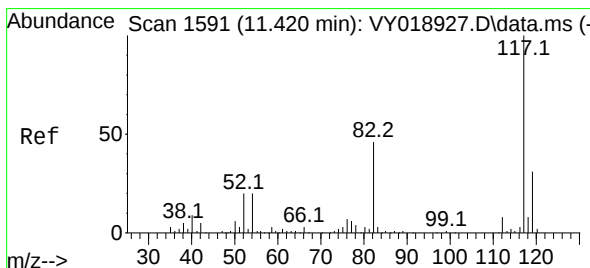
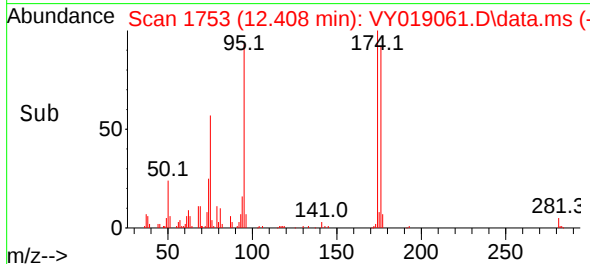
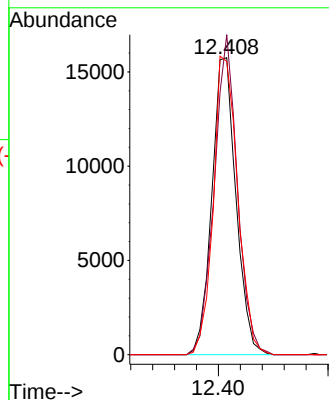
Tgt Ion: 95 Resp: 24090

Ion Ratio Lower Upper

95 100

174 103.5 0.0 175.6

176 101.5 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY019061.D

Acq: 14 Aug 2024 16:15

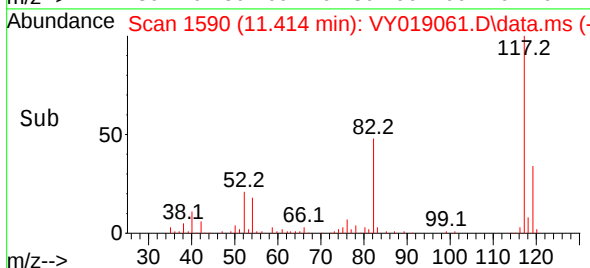
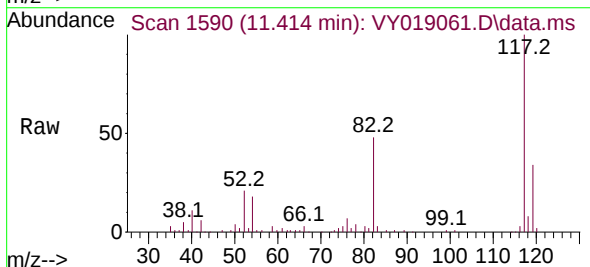
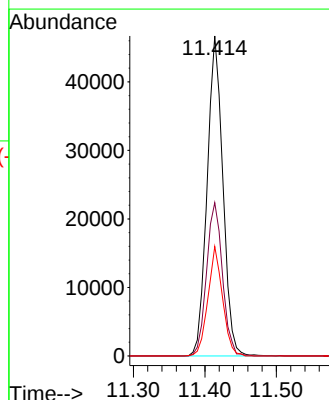
Tgt Ion: 117 Resp: 71442

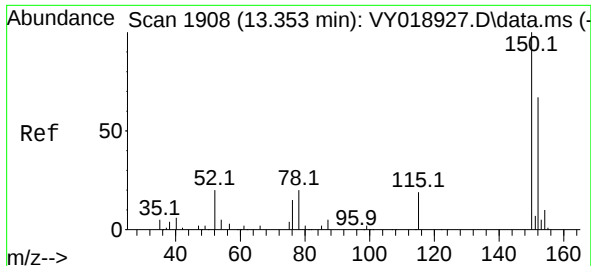
Ion Ratio Lower Upper

117 100

82 47.9 42.4 63.6

119 34.2 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY019061.D

Acq: 14 Aug 2024 16:15

Instrument :

MSVOA\_Y

ClientSampleId :

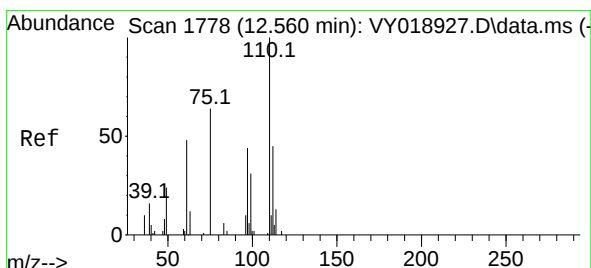
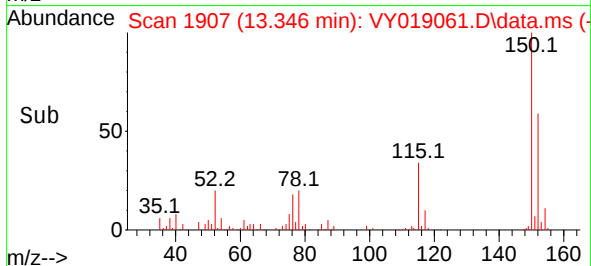
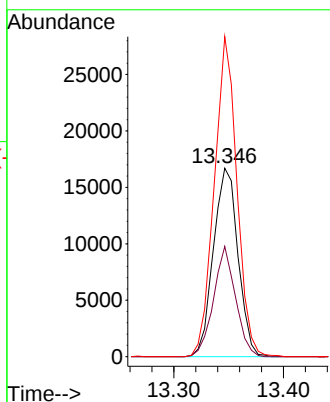
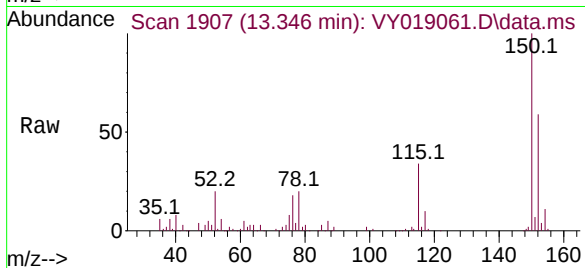
Tgt Ion:152 Resp: 26004

Ion Ratio Lower Upper

152 100

115 52.4 28.2 84.7

150 156.4 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 72.830 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019061.D

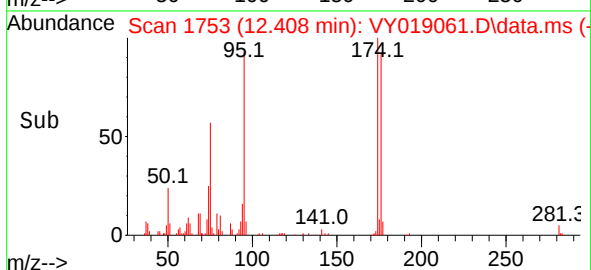
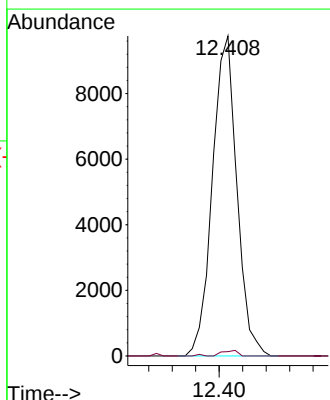
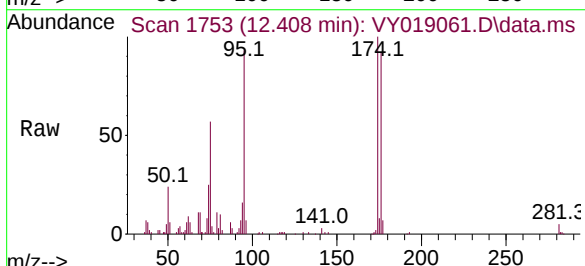
Acq: 14 Aug 2024 16:15

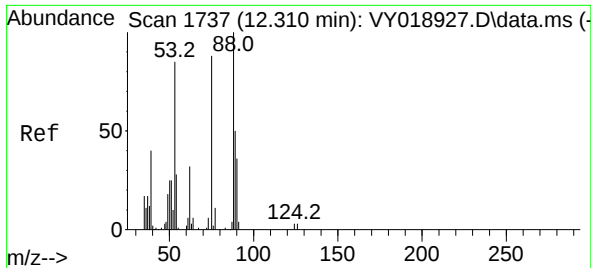
Tgt Ion: 75 Resp: 14109

Ion Ratio Lower Upper

75 100

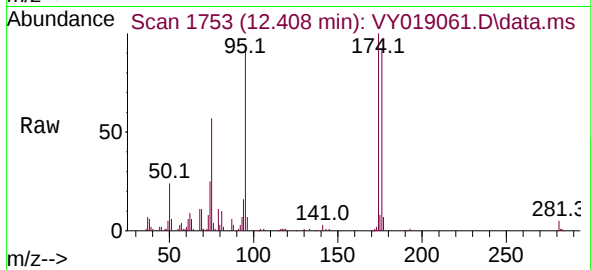
77 1.1 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 150.072 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. 0.097 min  
 Lab File: VY019061.D  
 Acq: 14 Aug 2024 16:15

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 14109  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 66.8  | 100.2# |
| 89       | 0.0   | 35.8  | 53.6#  |

