

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081224\  
 Data File : VY019014.D  
 Acq On : 12 Aug 2024 20:04  
 Operator : SY/MD  
 Sample : P3518-23  
 Misc : 4.28g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OU4-TS-12-080724RE

Quant Time: Aug 13 01:20:10 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

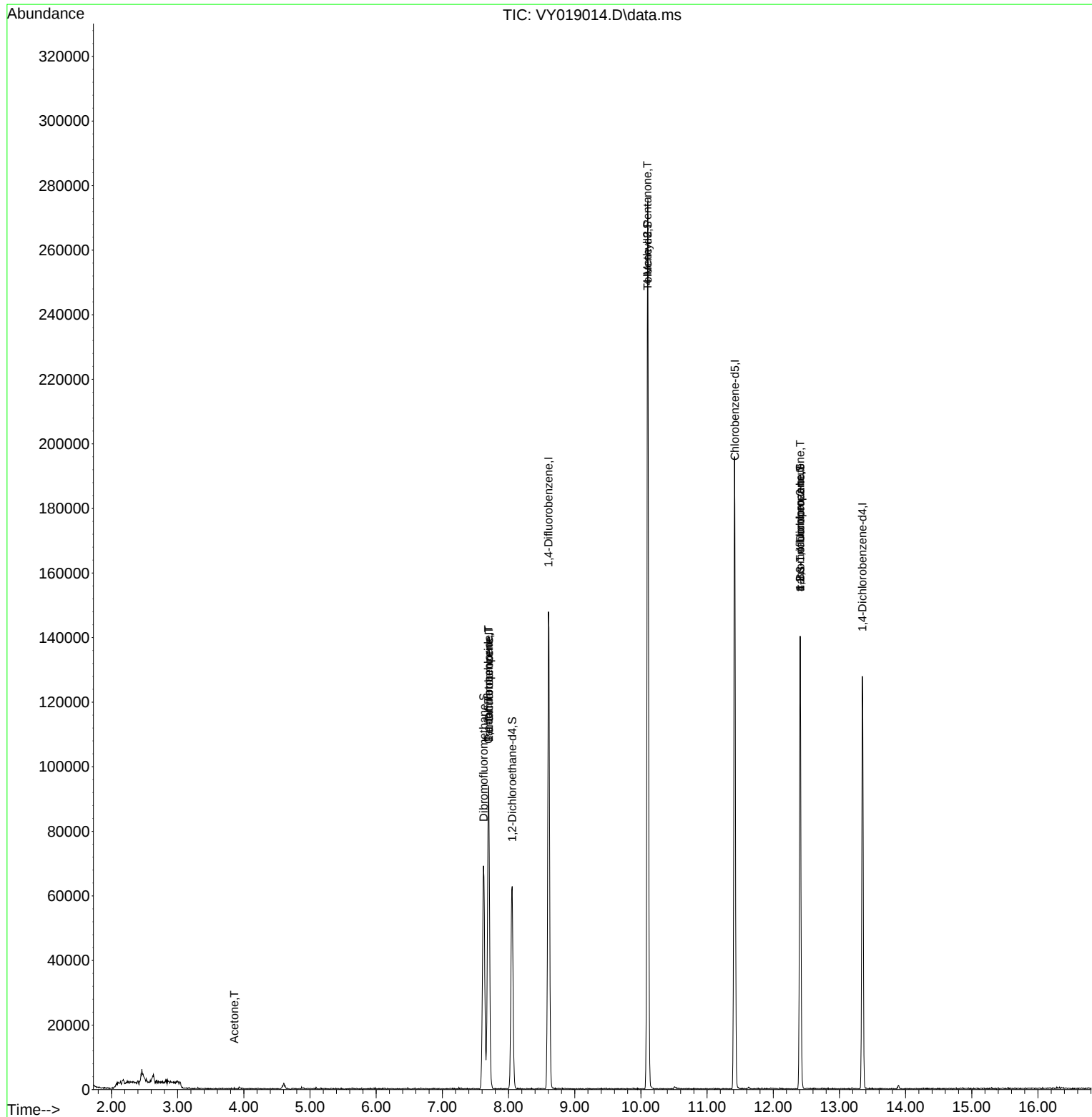
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| -----                         |           |       |          |           |        |          |
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.701     | 168   | 76017    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.604     | 114   | 123839   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420    | 117   | 94854    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347    | 152   | 29529    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.055     | 65    | 39980    | 59.902    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | =      | 119.800% |
| 35) Dibromofluoromethane      | 7.622     | 113   | 44178    | 55.855    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | =      | 111.700% |
| 50) Toluene-d8                | 10.103    | 98    | 161599   | 53.192    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery  | =      | 106.380% |
| 62) 4-Bromofluorobenzene      | 12.408    | 95    | 32981    | 36.592    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery  | =      | 73.180%  |
| Target Compounds              |           |       |          |           |        |          |
|                               |           |       |          |           |        | Qvalue   |
| 3) Chloromethane              | 2.074     | 50    | 42       | Below Cal | #      | 43       |
| 16) Acetone                   | 3.854     | 43    | 147      | 13.335    | ug/l # | 36       |
| 20) Methylene Chloride        | 4.610     | 84    | 995      | Below Cal | #      | 67       |
| 31) Cyclohexane               | 7.695     | 56    | 1908     | Below Cal | #      | 37       |
| 36) 1,1-Dichloropropene       | 7.701     | 75    | 5239     | 4.934     | ug/l # | 40       |
| 38) Carbon Tetrachloride      | 7.695     | 117   | 6704     | 5.507     | ug/l # | 20       |
| 51) 4-Methyl-2-Pentanone      | 10.097    | 43    | 848      | 1.666     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.408    | 75    | 19515    | 88.710    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408    | 75    | 19515    | 182.795   | ug/l # | 16       |
| -----                         |           |       |          |           |        |          |

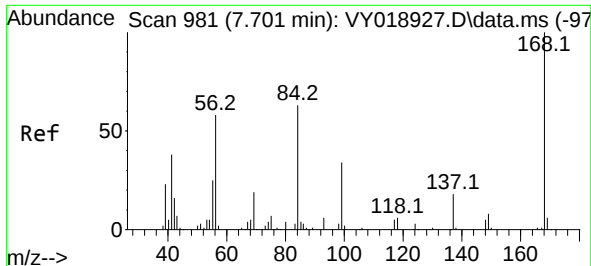
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
OU4-TS-12-080724RE

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080824S.M  
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QLast Update : Fri Aug 09 04:24:33 2024  
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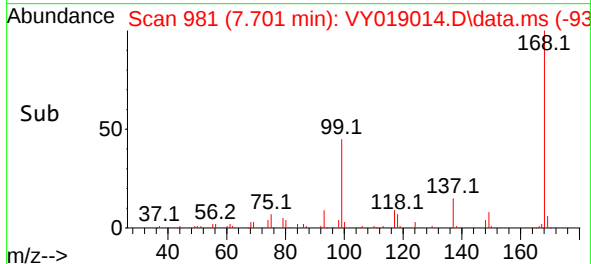
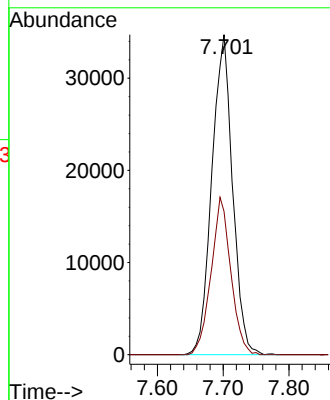
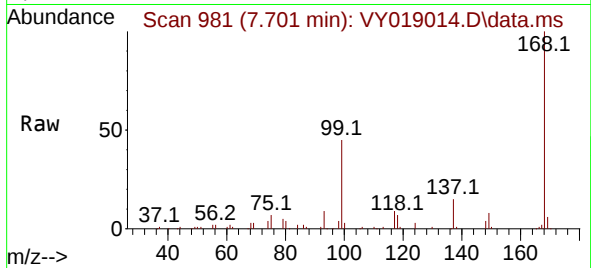




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: VY019014.D  
Acq: 12 Aug 2024 20:04

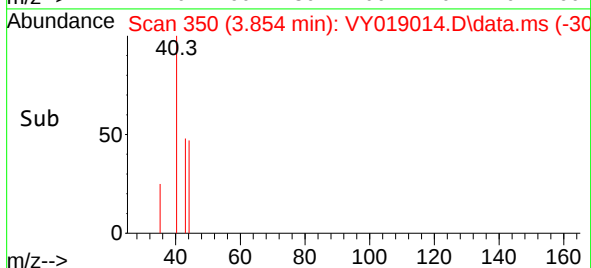
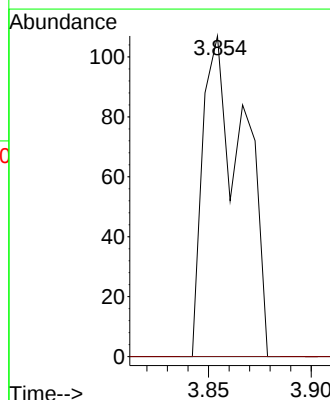
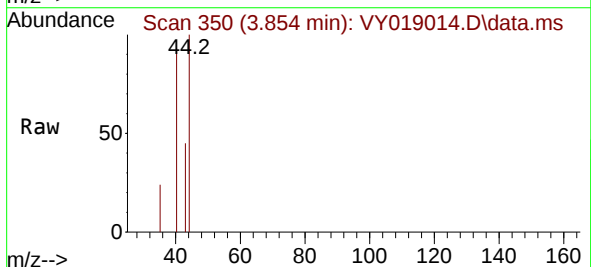
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-12-080724RE

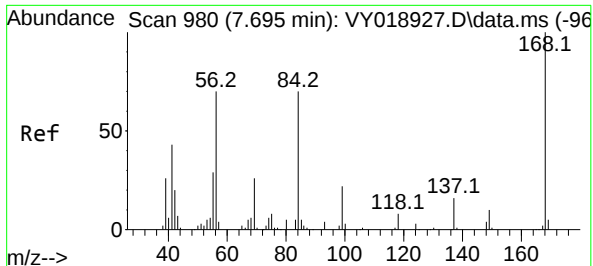
Tgt Ion:168 Resp: 76017  
Ion Ratio Lower Upper  
168 100  
99 44.7 39.1 58.7



#16  
Acetone  
Concen: 13.335 ug/l  
RT: 3.854 min Scan# 350  
Delta R.T. 0.000 min  
Lab File: VY019014.D  
Acq: 12 Aug 2024 20:04

Tgt Ion: 43 Resp: 147  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 47.5#

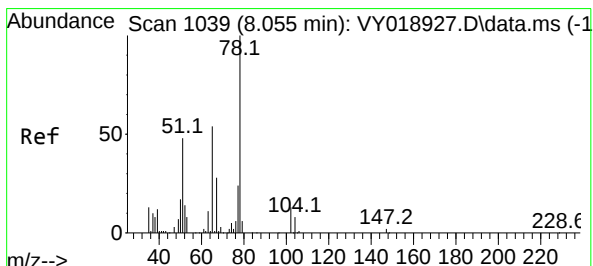
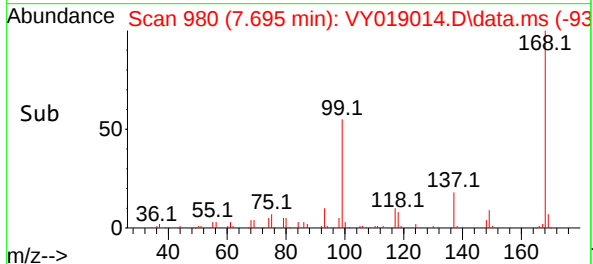
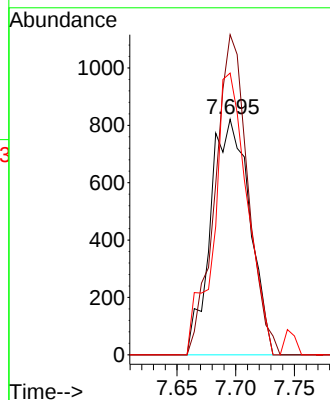
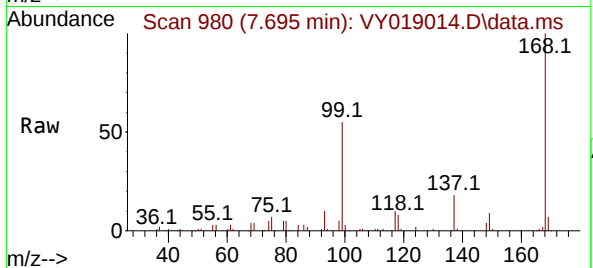




#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.695 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY019014.D  
Acq: 12 Aug 2024 20:04

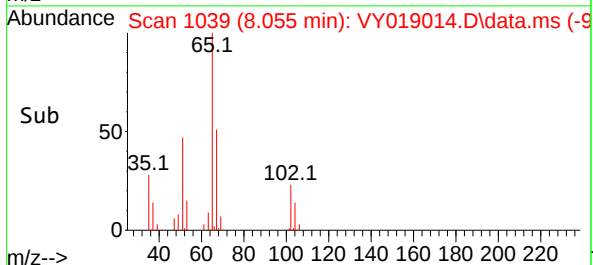
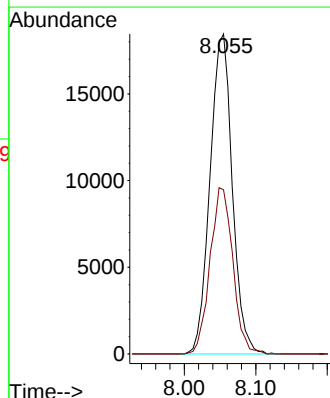
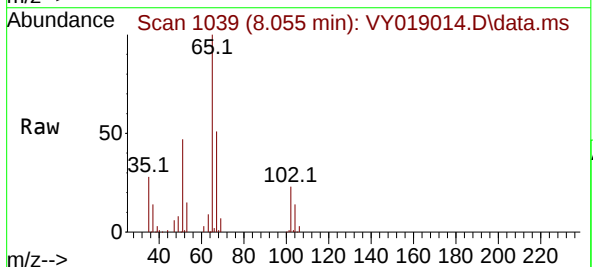
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-12-080724RE

Tgt Ion: 56 Resp: 1908  
Ion Ratio Lower Upper  
56 100  
69 135.9 28.7 43.1#  
84 119.6 77.7 116.5#



#33  
1,2-Dichloroethane-d4  
Concen: 59.902 ug/l  
RT: 8.055 min Scan# 1039  
Delta R.T. 0.000 min  
Lab File: VY019014.D  
Acq: 12 Aug 2024 20:04

Tgt Ion: 65 Resp: 39980  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.604 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY019014.D

Acq: 12 Aug 2024 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-TS-12-080724RE

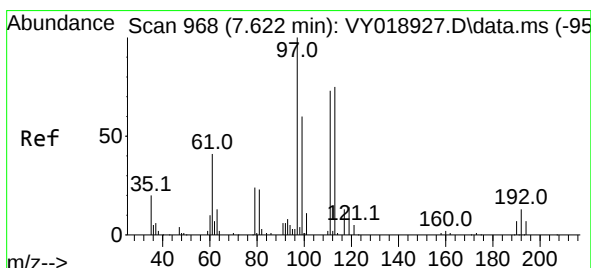
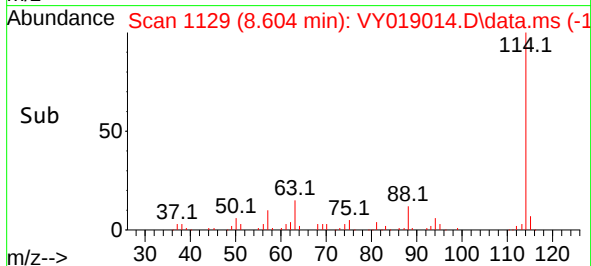
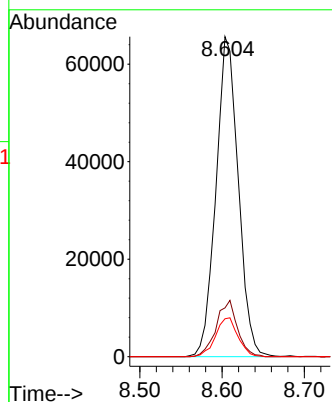
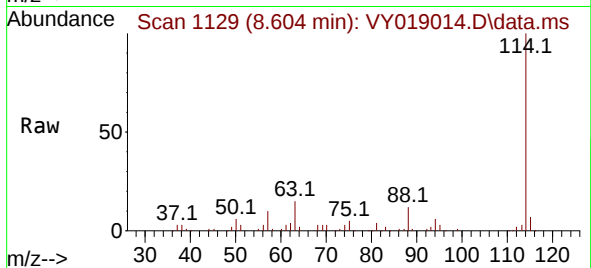
Tgt Ion:114 Resp: 123839

Ion Ratio Lower Upper

114 100

63 15.3 0.0 35.0

88 11.9 0.0 27.2



#35

Dibromofluoromethane

Concen: 55.855 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.000 min

Lab File: VY019014.D

Acq: 12 Aug 2024 20:04

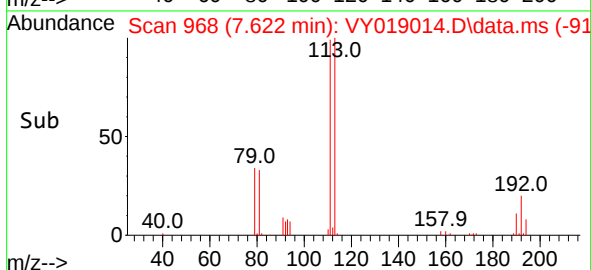
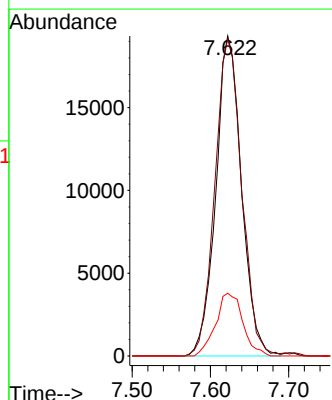
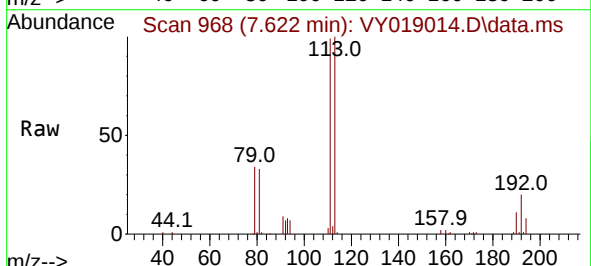
Tgt Ion:113 Resp: 44178

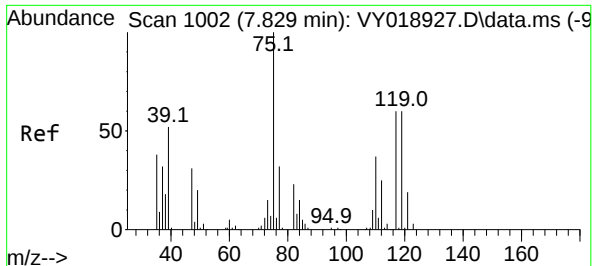
Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

192 20.7 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.934 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY019014.D

Acq: 12 Aug 2024 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-TS-12-080724RE

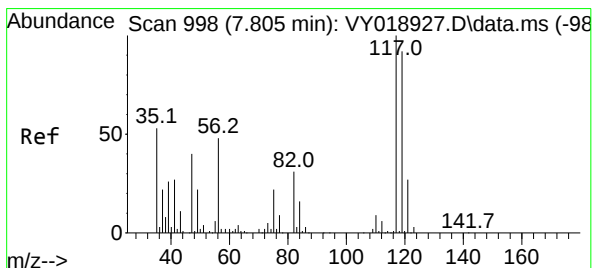
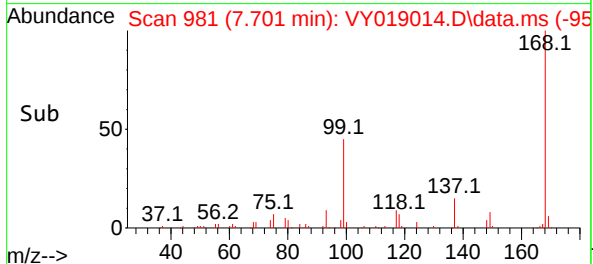
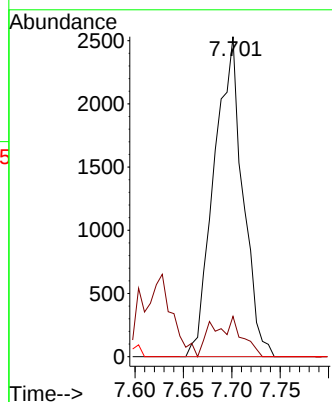
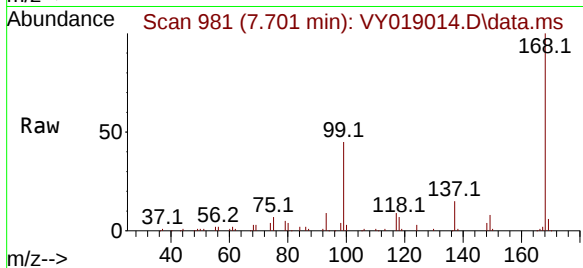
Tgt Ion: 75 Resp: 5239

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.507 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.110 min

Lab File: VY019014.D

Acq: 12 Aug 2024 20:04

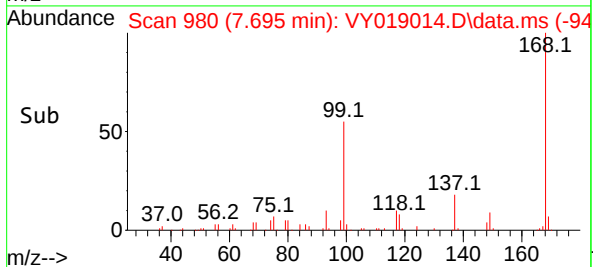
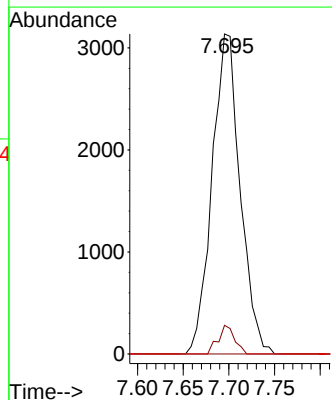
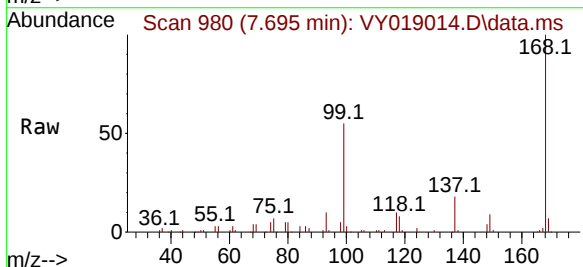
Tgt Ion: 117 Resp: 6704

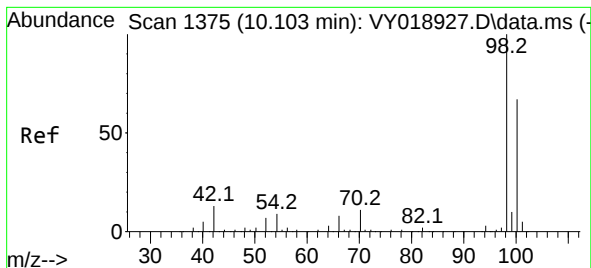
Ion Ratio Lower Upper

117 100

119 9.0 75.8 113.6#

121 0.0 24.0 36.0#





#50

Toluene-d8

Concen: 53.192 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY019014.D

Acq: 12 Aug 2024 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

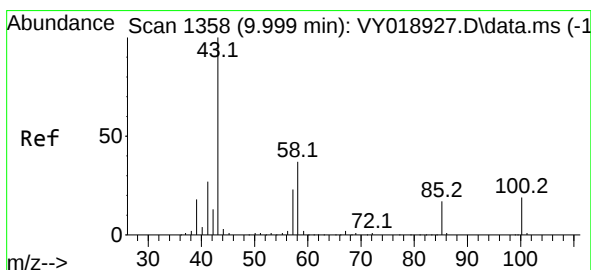
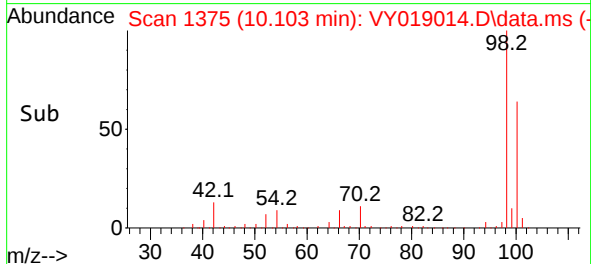
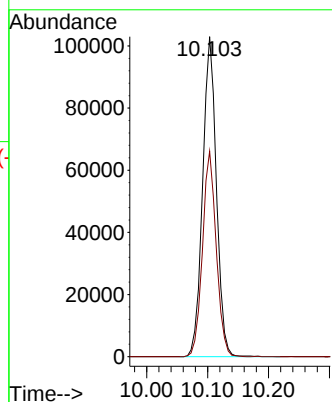
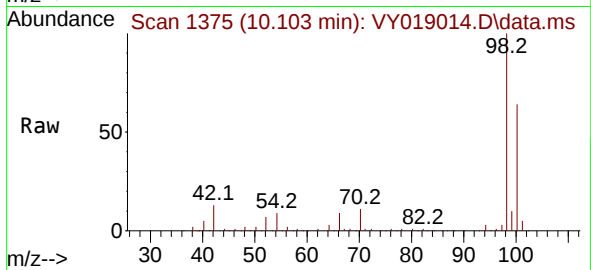
OU4-TS-12-080724RE

Tgt Ion: 98 Resp: 161599

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 1.666 ug/l

RT: 10.097 min Scan# 1374

Delta R.T. 0.098 min

Lab File: VY019014.D

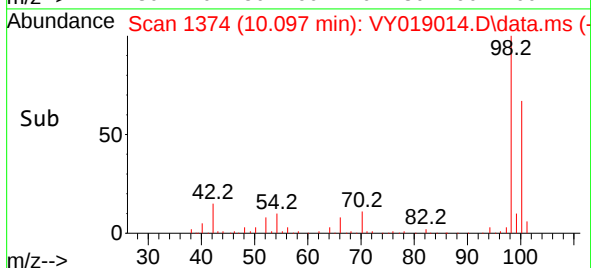
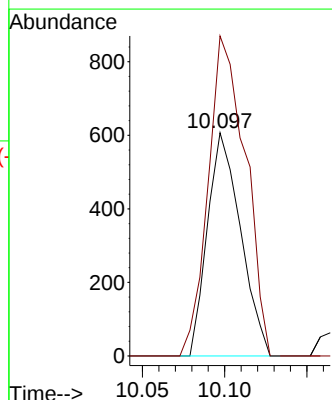
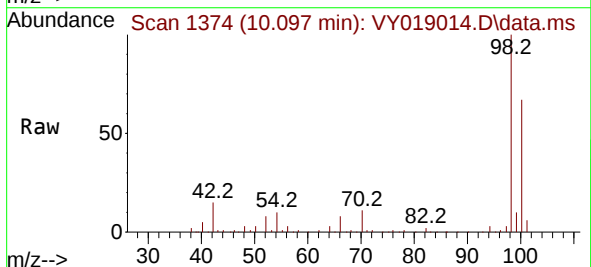
Acq: 12 Aug 2024 20:04

Tgt Ion: 43 Resp: 848

Ion Ratio Lower Upper

43 100

58 161.3 35.7 53.5#

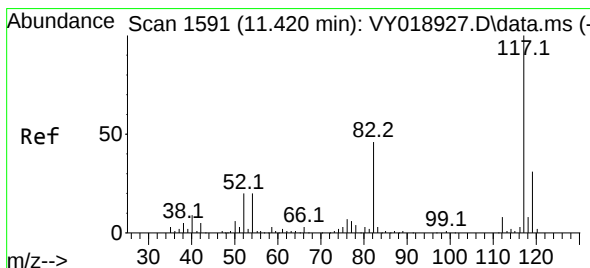
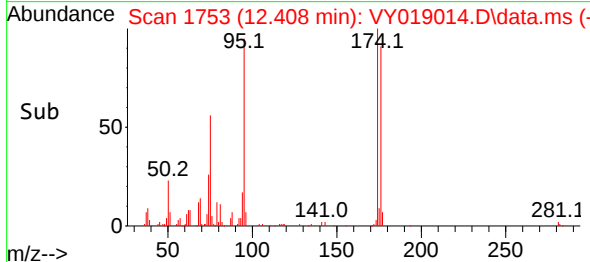
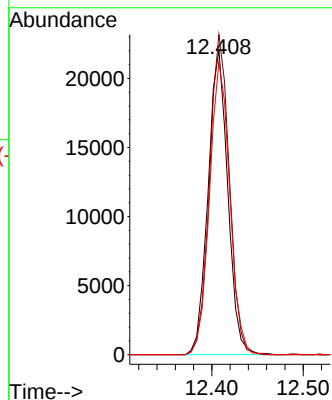
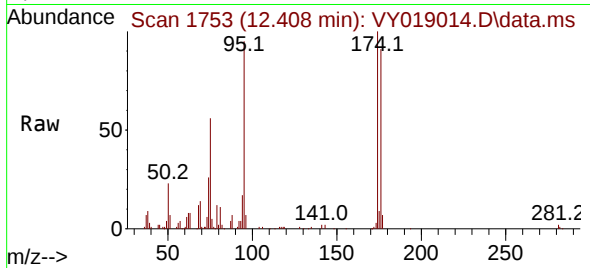




#62  
4-Bromofluorobenzene  
Concen: 36.592 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VY019014.D  
Acq: 12 Aug 2024 20:04

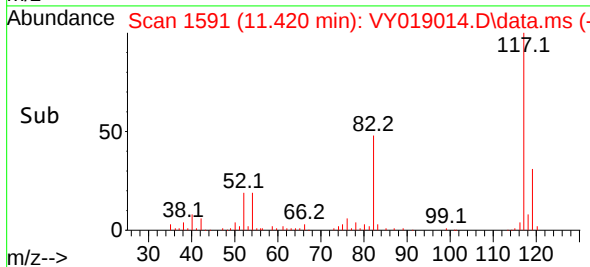
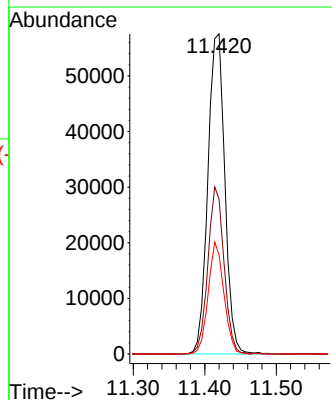
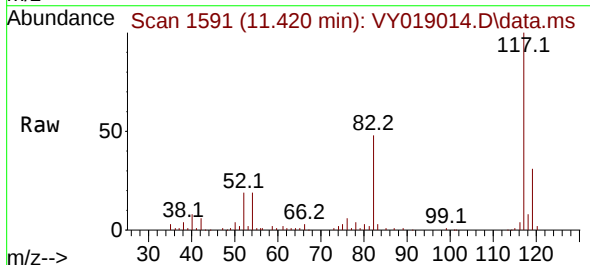
Instrument :  
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ClientSampleId :  
OU4-TS-12-080724RE

Tgt Ion: 95 Resp: 32981  
Ion Ratio Lower Upper  
95 100  
174 106.0 0.0 175.6  
176 98.7 0.0 171.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.000 min  
Lab File: VY019014.D  
Acq: 12 Aug 2024 20:04

Tgt Ion: 117 Resp: 94854  
Ion Ratio Lower Upper  
117 100  
82 48.4 42.4 63.6  
119 30.9 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1908

Delta R.T. -0.006 min

Lab File: VY019014.D

Acq: 12 Aug 2024 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-TS-12-080724RE

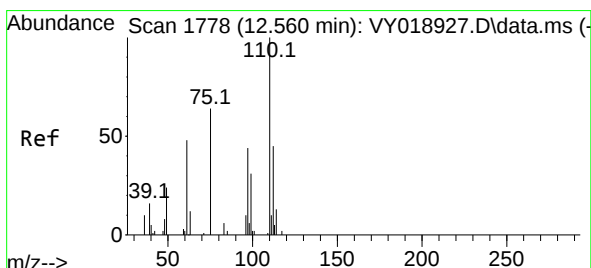
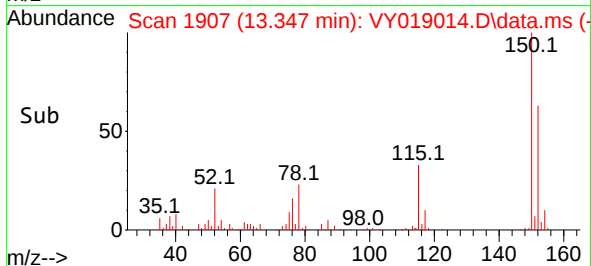
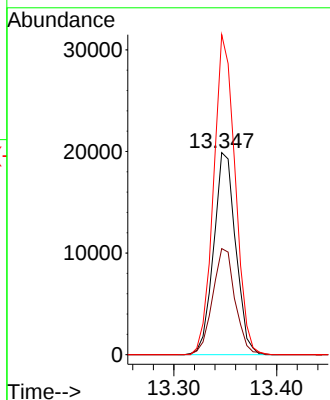
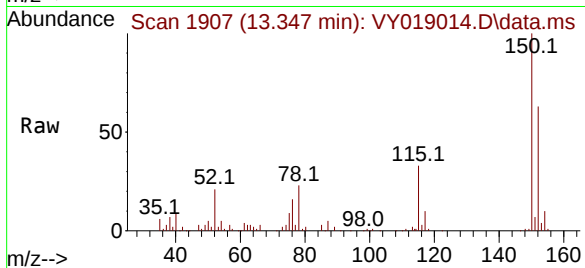
Tgt Ion:152 Resp: 29529

Ion Ratio Lower Upper

152 100

115 53.7 28.2 84.7

150 155.1 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 88.710 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019014.D

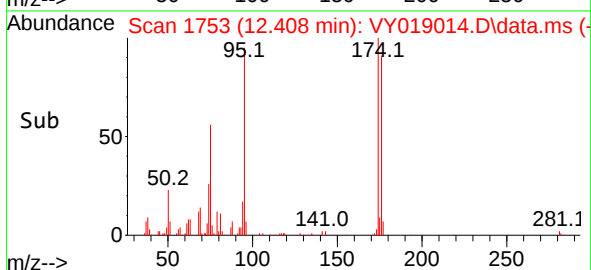
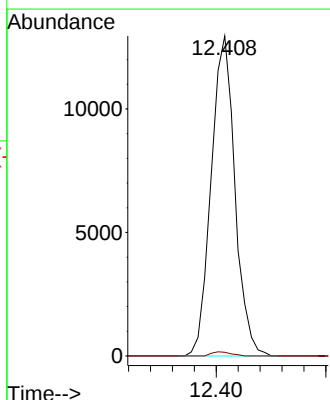
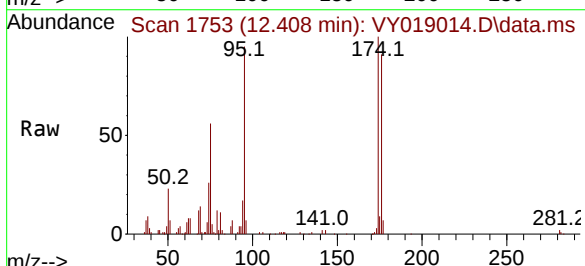
Acq: 12 Aug 2024 20:04

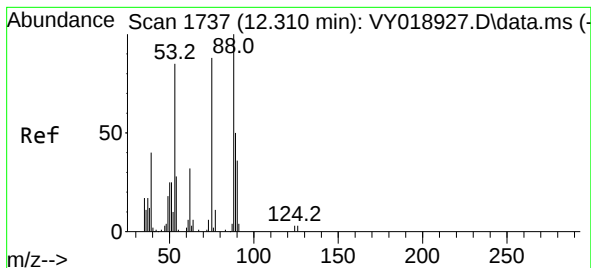
Tgt Ion: 75 Resp: 19515

Ion Ratio Lower Upper

75 100

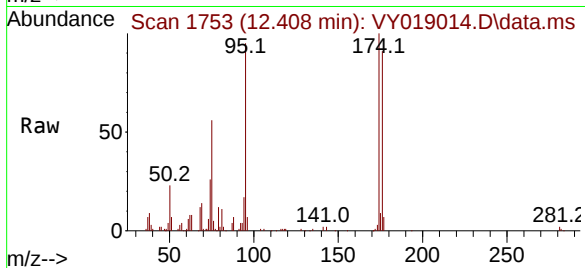
77 1.1 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 182.795 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. 0.098 min  
 Lab File: VY019014.D  
 Acq: 12 Aug 2024 20:04

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OU4-TS-12-080724RE



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 66.8  | 100.2# |
| 89      | 0.2   | 35.8  | 53.6#  |

