

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY083023\  
 Data File : VY015381.D  
 Acq On : 30 Aug 2023 16:37  
 Operator : SY/MD  
 Sample : 04219-03  
 Misc : 5.03g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 31 01:02:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082923S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 29 22:47:33 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 43149    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 67991    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 55206    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 22585    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 22938    | 49.590   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 99.180%  |
| 35) Dibromofluoromethane    | 7.716  | 113   | 21298    | 54.385   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 108.780% |
| 50) Toluene-d8              | 10.179 | 98    | 78530    | 55.374   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 110.740% |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 21324    | 40.503   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 81.000%  |

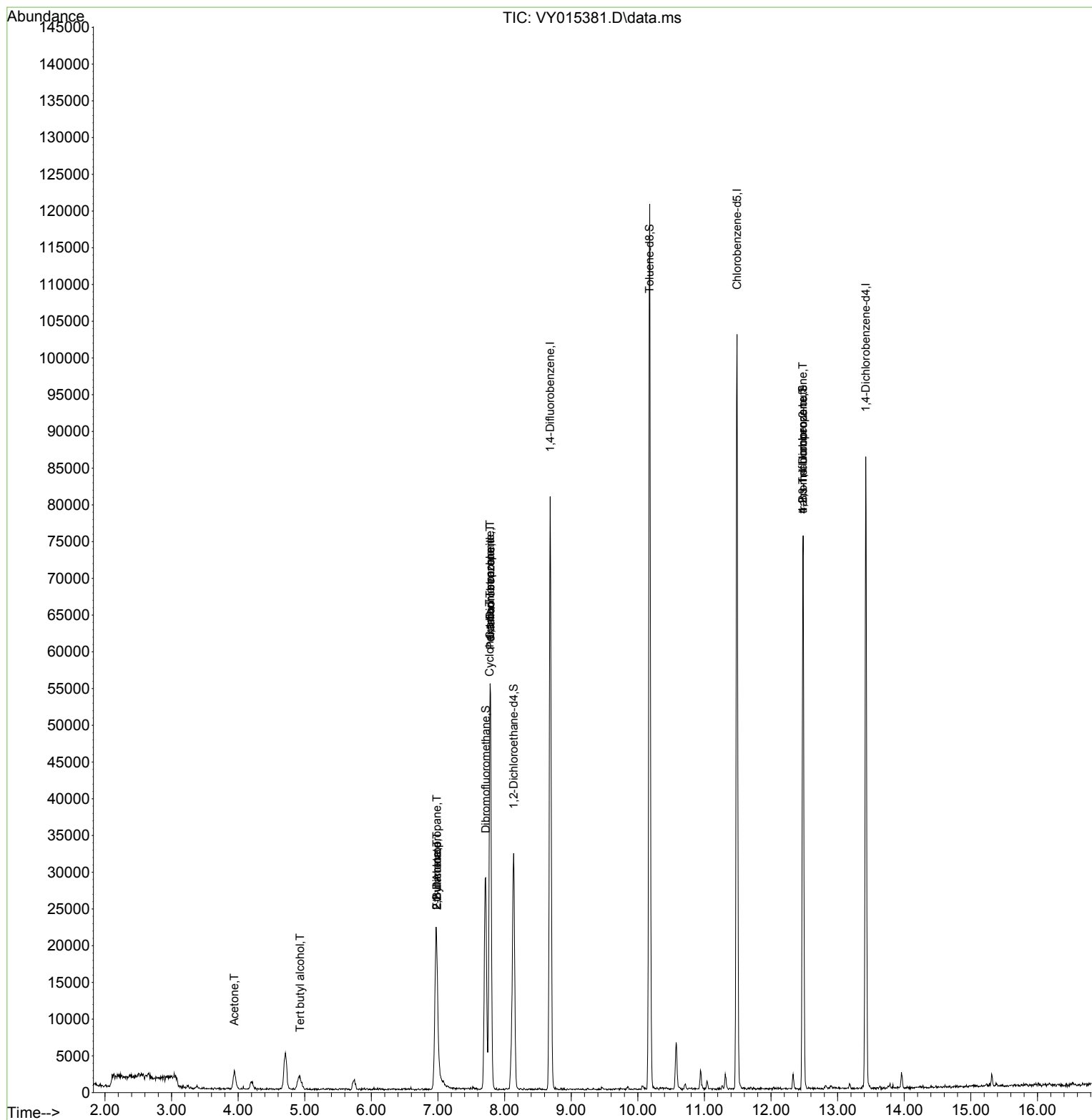
| Target Compounds              |        |     |       |        | Qvalue |     |
|-------------------------------|--------|-----|-------|--------|--------|-----|
| 11) Tert butyl alcohol        | 4.930  | 59  | 1796  | 16.745 | ug/l # | 89  |
| 16) Acetone                   | 3.942  | 43  | 4479  | 23.199 | ug/l # | 89  |
| 25) 2-Butanone                | 6.984  | 43  | 1446  | 5.281  | ug/l # | 49  |
| 26) 2,2-Dichloropropane       | 6.984  | 77  | 1906  | 2.599  | ug/l # | 54  |
| 31) Cyclohexane               | 7.777  | 56  | 851   | 1.036  | ug/l # | 44  |
| 36) 1,1-Dichloropropene       | 7.783  | 75  | 3689  | 5.365  | ug/l # | 49  |
| 37) Ethyl Acetate             | 6.984  | 43  | 1446  | 2.727  | ug/l # | 1   |
| 38) Carbon Tetrachloride      | 7.783  | 117 | 4337  | 6.107  | ug/l # | 15  |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75  | 11606 | 38.911 | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75  | 11606 | 85.481 | ug/l # | 10  |

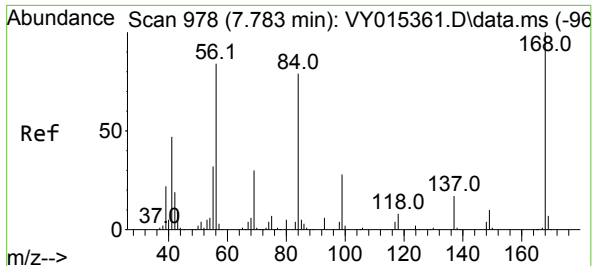
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Aug 31 01:02:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082923S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 29 22:47:33 2023  
Response via : Initial Calibration

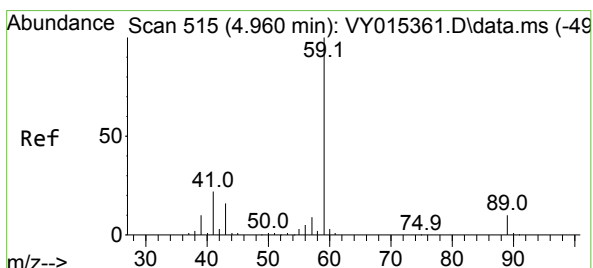
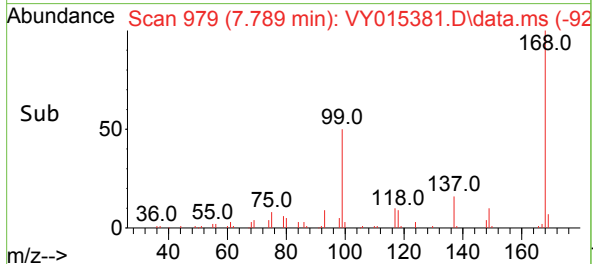
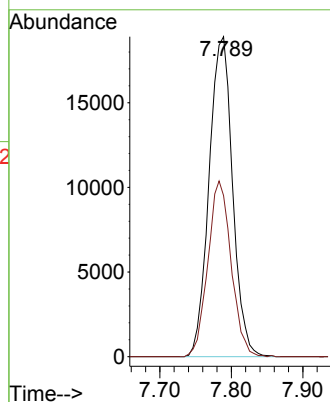
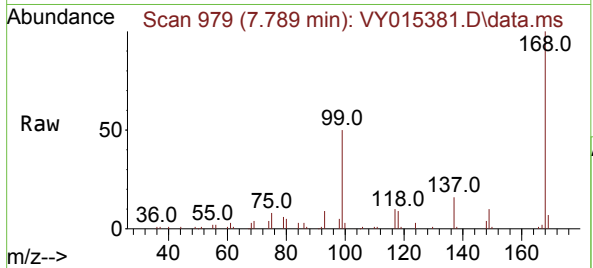




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

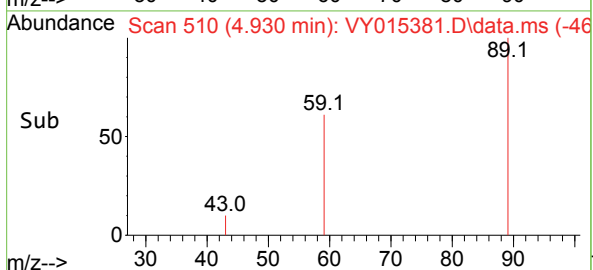
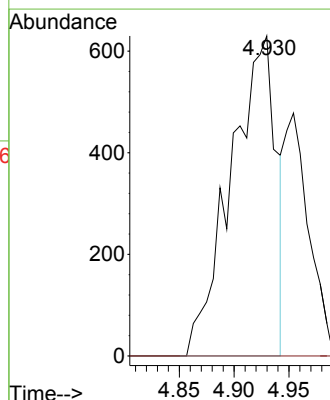
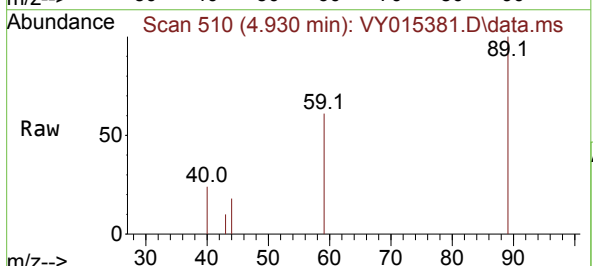
Instrument :  
MSVOA\_Y  
ClientSampleId :

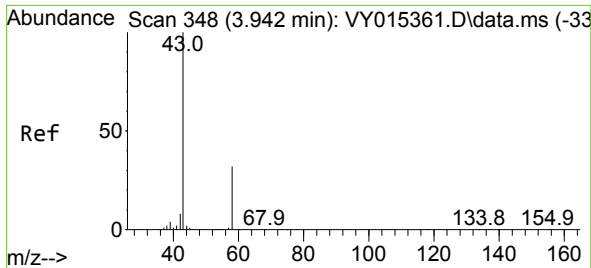
Tgt Ion:168 Resp: 43149  
Ion Ratio Lower Upper  
168 100  
99 50.3 43.4 65.0



#11  
Tert butyl alcohol  
Concen: 16.745 ug/l  
RT: 4.930 min Scan# 510  
Delta R.T. -0.024 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

Tgt Ion: 59 Resp: 1796  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#

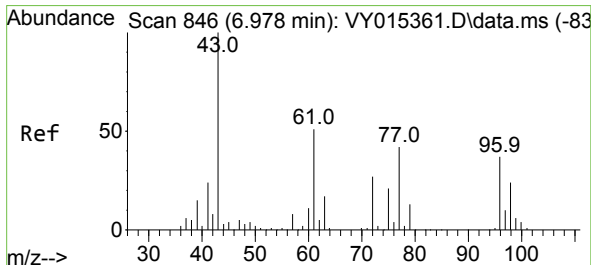
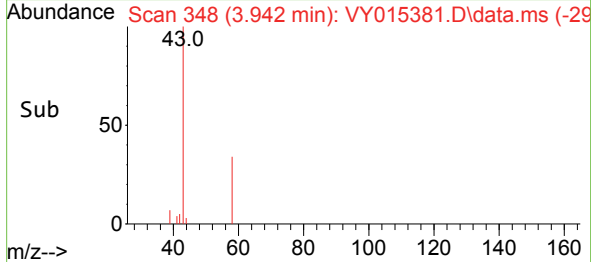
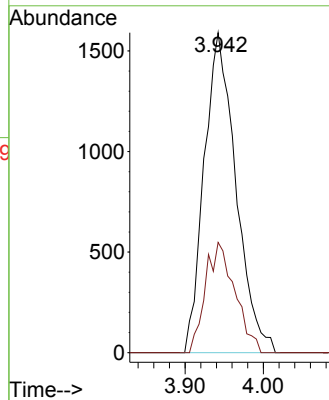
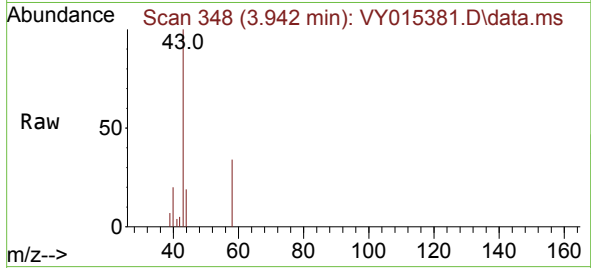




#16  
Acetone  
Concen: 23.199 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. 0.000 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

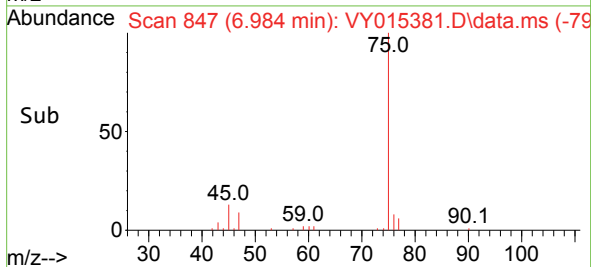
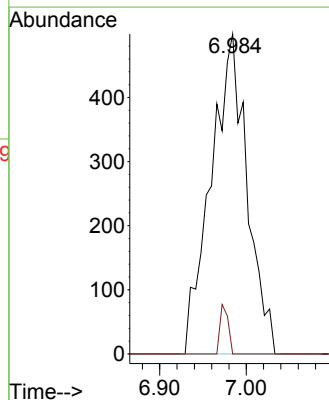
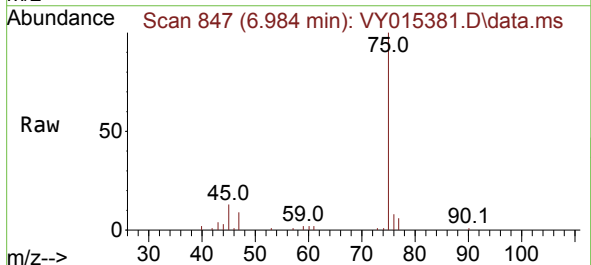
Instrument :  
MSVOA\_Y  
ClientSampleId :

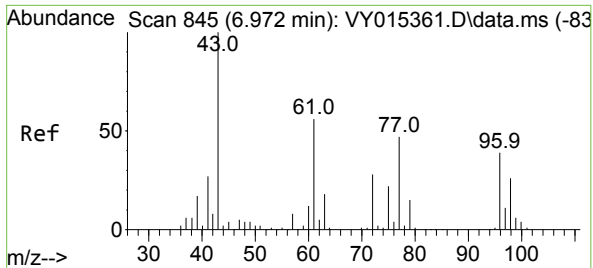
Tgt Ion: 43 Resp: 4479  
Ion Ratio Lower Upper  
43 100  
58 34.4 22.7 34.1#



#25  
2-Butanone  
Concen: 5.281 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

Tgt Ion: 43 Resp: 1446  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.5 30.7#

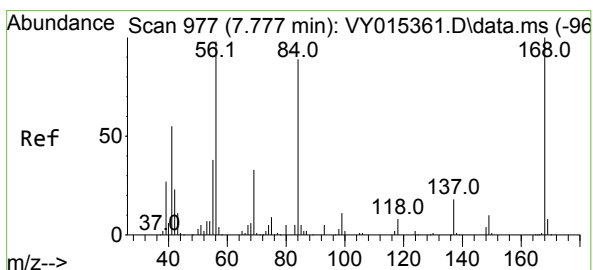
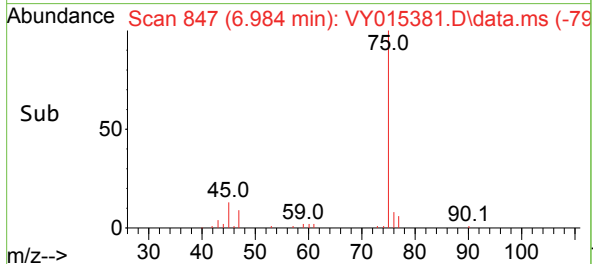
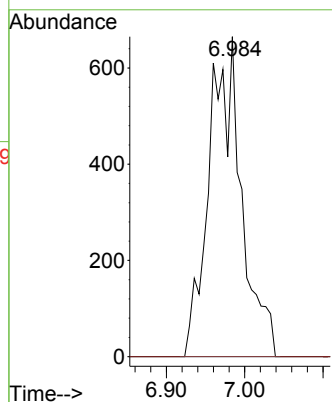
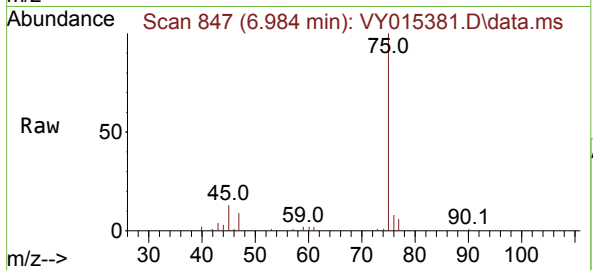




#26  
2,2-Dichloropropane  
Concen: 2.599 ug/l  
RT: 6.984 min Scan# 845  
Delta R.T. 0.012 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

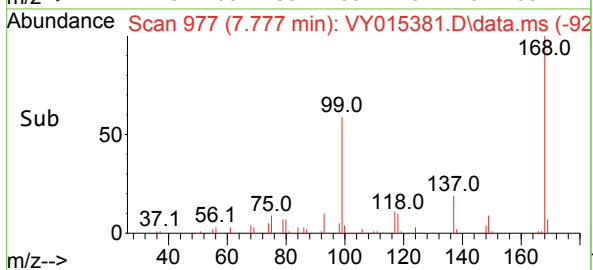
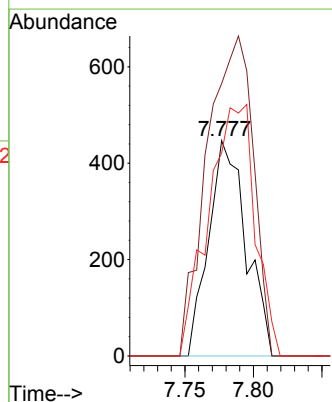
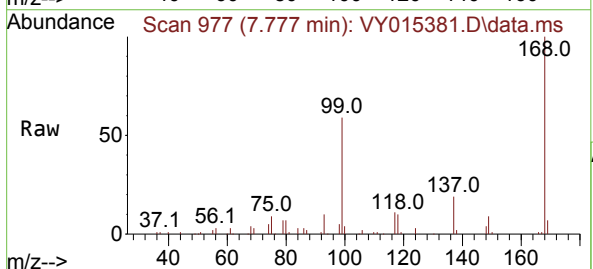
Instrument :  
MSVOA\_Y  
ClientSampleId :

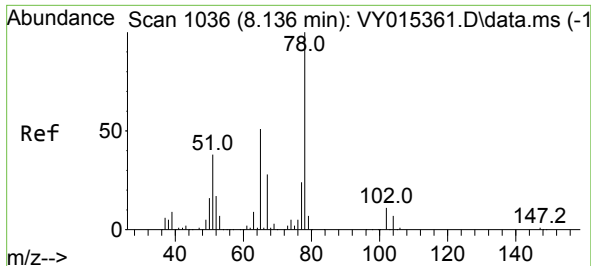
Tgt Ion: 77 Resp: 1906  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.9 32.9#



#31  
Cyclohexane  
Concen: 1.036 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.006 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

Tgt Ion: 56 Resp: 851  
Ion Ratio Lower Upper  
56 100  
69 126.4 27.8 41.6#  
84 94.2 66.4 99.6

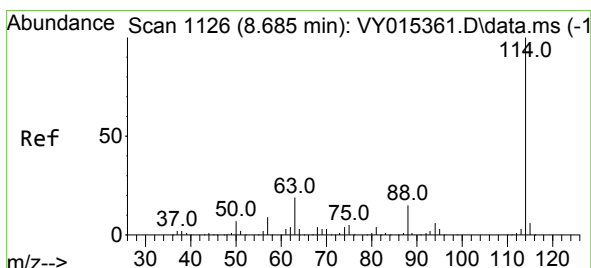
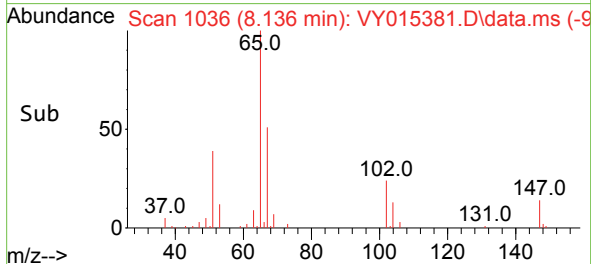
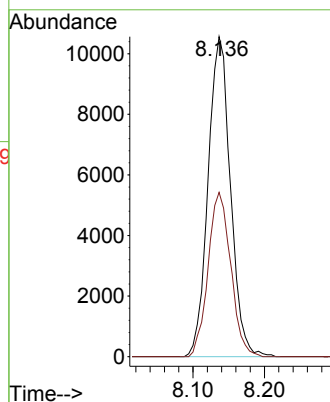
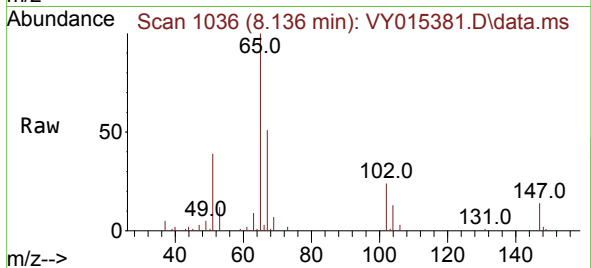




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.590 ug/l  
 RT: 8.136 min Scan# 1036  
 Delta R.T. 0.000 min  
 Lab File: VY015381.D  
 Acq: 30 Aug 2023 16:37

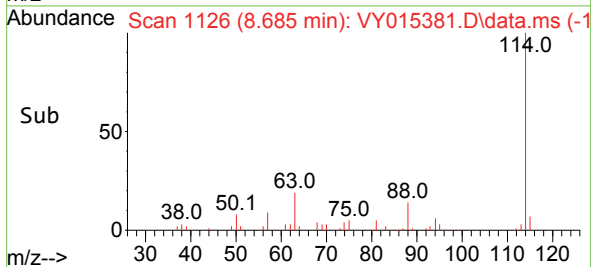
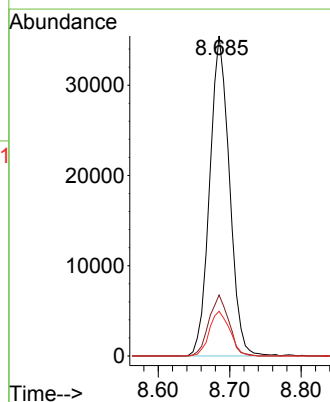
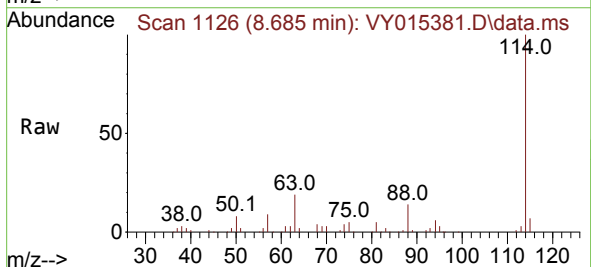
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tgt Ion: 65 Resp: 22938  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.685 min Scan# 1126  
 Delta R.T. 0.000 min  
 Lab File: VY015381.D  
 Acq: 30 Aug 2023 16:37

Tgt Ion: 114 Resp: 67991  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 42.4  
 88 13.9 0.0 30.6

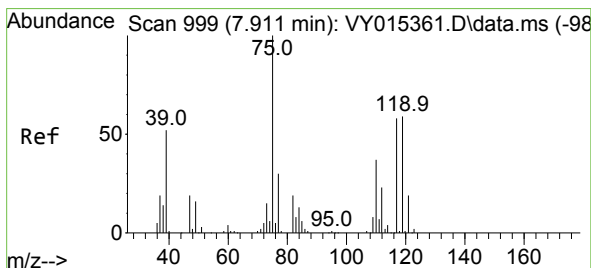
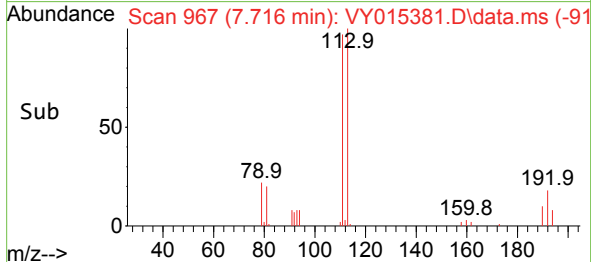
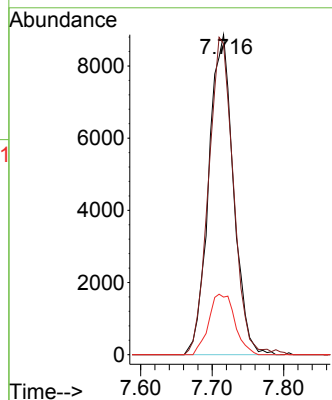
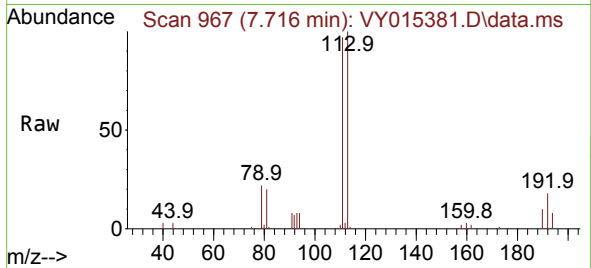




#35  
Dibromofluoromethane  
Concen: 54.385 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

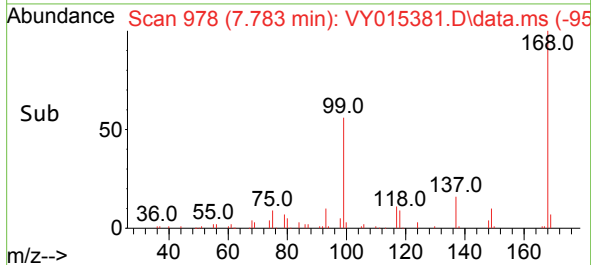
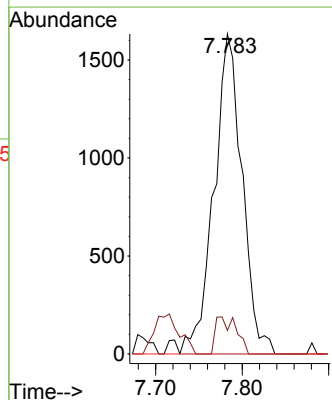
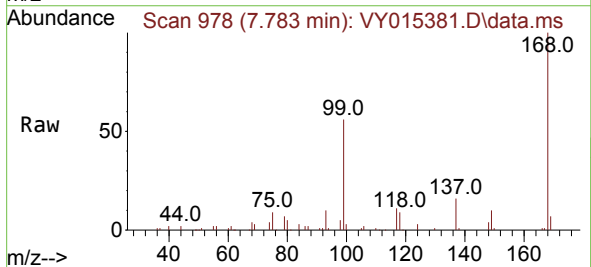
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MSVOA\_Y  
ClientSampleId :

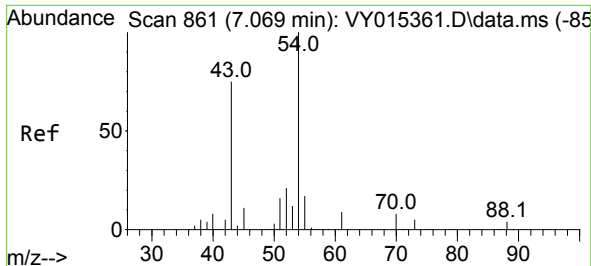
Tgt Ion:113 Resp: 21298  
Ion Ratio Lower Upper  
113 100  
111 99.8 81.3 121.9  
192 19.9 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 5.365 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.128 min  
Lab File: VY015381.D  
Acq: 30 Aug 2023 16:37

Tgt Ion: 75 Resp: 3689  
Ion Ratio Lower Upper  
75 100  
110 8.5 17.8 53.5#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.727 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.079 min

Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

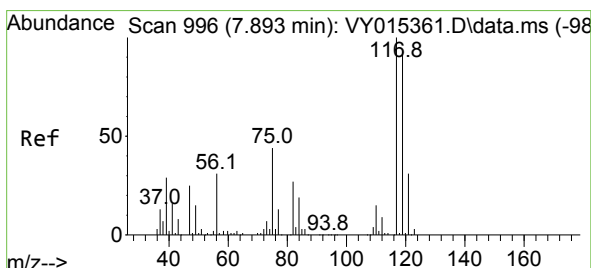
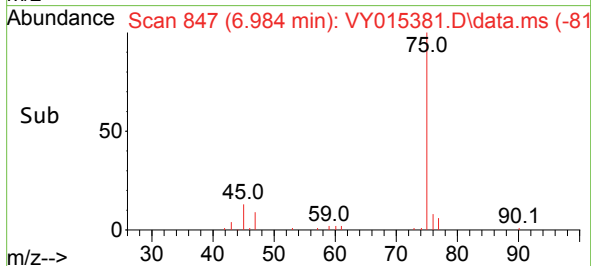
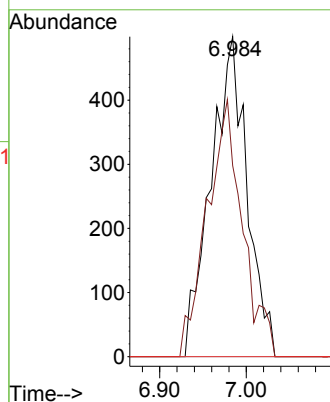
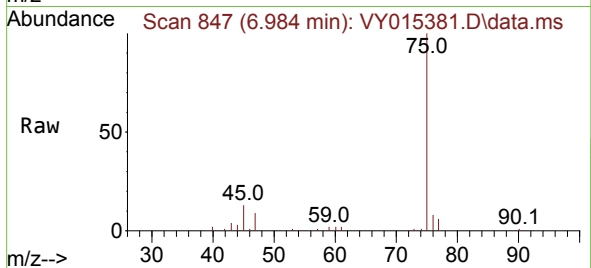
Instrument :

MSVOA\_Y

ClientSampleId :

Tgt Ion: 43 Resp: 1446

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 78.7  | 10.1  | 15.1# |
| 70  | 0.0   | 7.1   | 10.7# |



#38

Carbon Tetrachloride

Concen: 6.107 ug/l

RT: 7.783 min Scan# 978

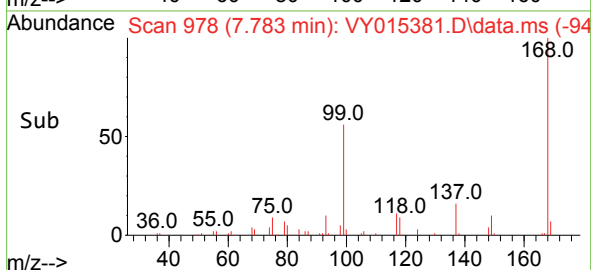
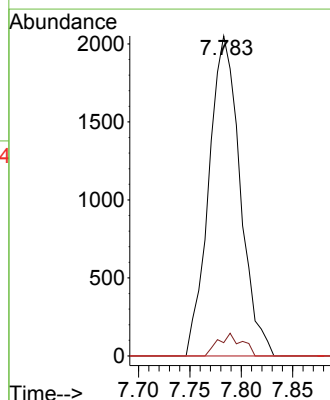
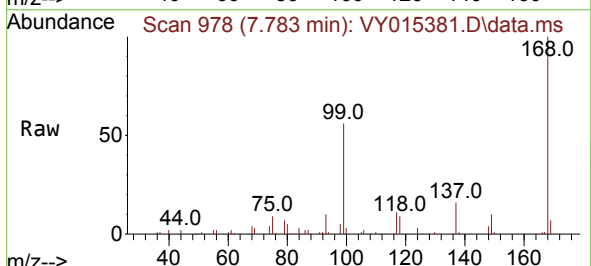
Delta R.T. -0.110 min

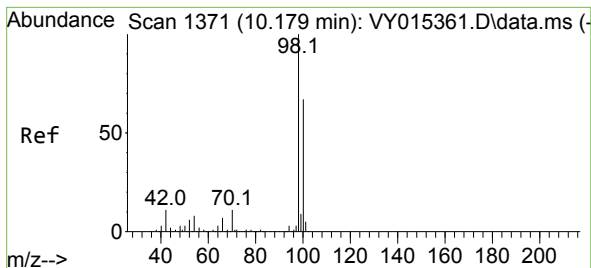
Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

Tgt Ion: 117 Resp: 4337

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 4.1   | 76.4  | 114.6# |
| 121 | 0.0   | 25.8  | 38.6#  |





#50

Toluene-d8

Concen: 55.374 ug/l

RT: 10.179 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

Instrument :

MSVOA\_Y

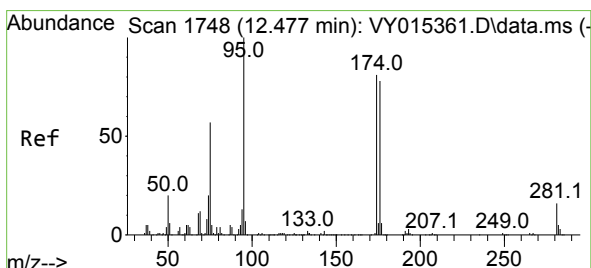
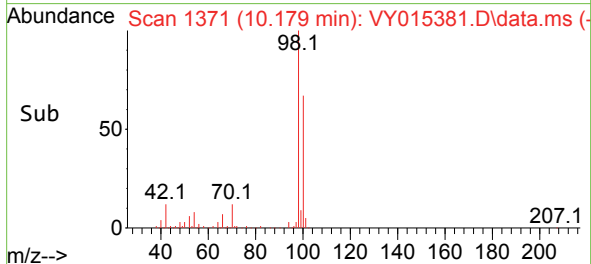
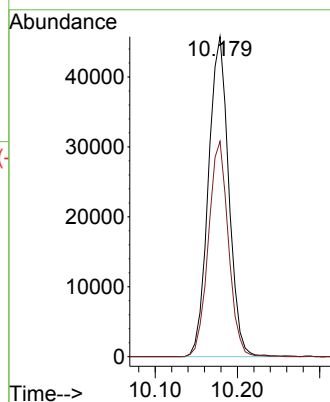
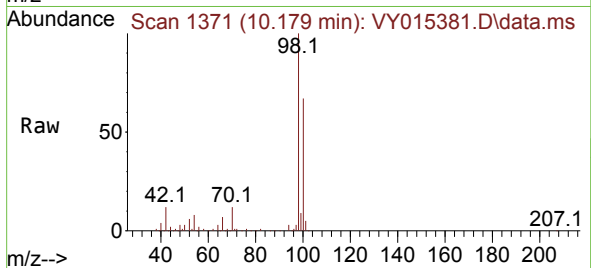
ClientSampleId :

Tgt Ion: 98 Resp: 78530

Ion Ratio Lower Upper

98 100

100 66.2 50.1 75.1



#62

4-Bromofluorobenzene

Concen: 40.503 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

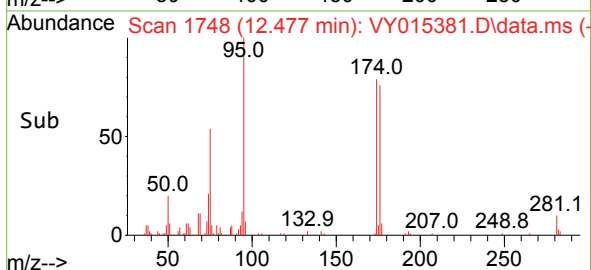
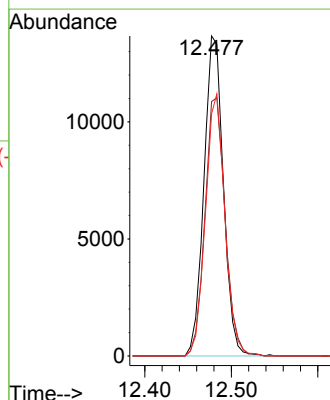
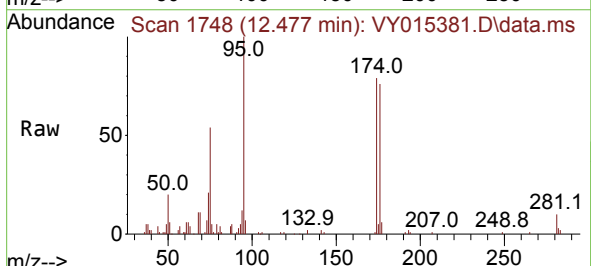
Tgt Ion: 95 Resp: 21324

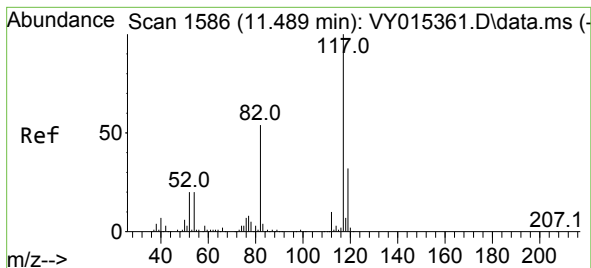
Ion Ratio Lower Upper

95 100

174 84.0 0.0 178.2

176 81.8 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

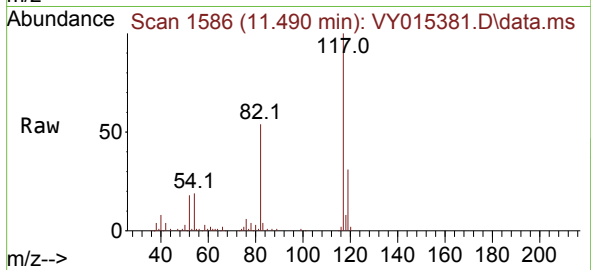
Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

Instrument :

MSVOA\_Y

ClientSampleId :



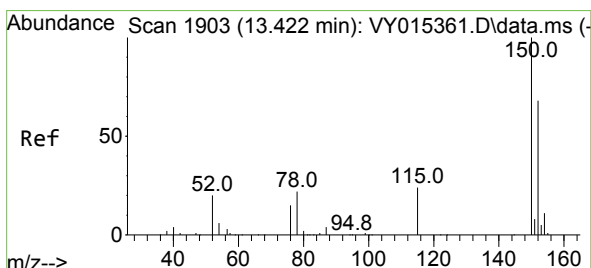
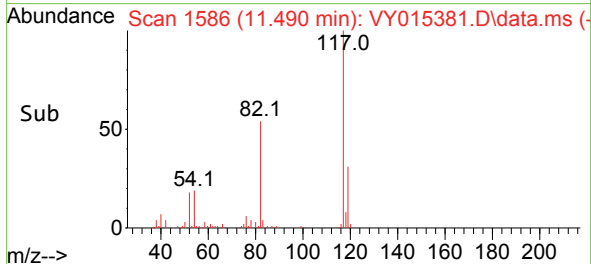
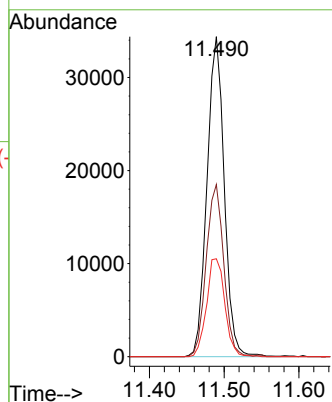
Tgt Ion:117 Resp: 55206

Ion Ratio Lower Upper

117 100

82 53.8 43.4 65.0

119 30.6 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

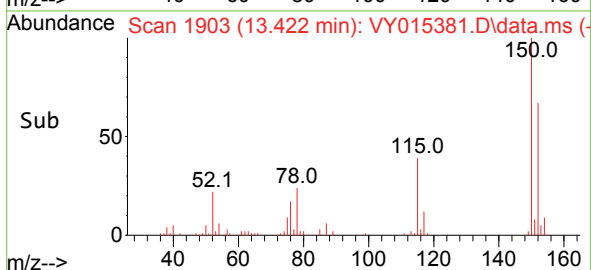
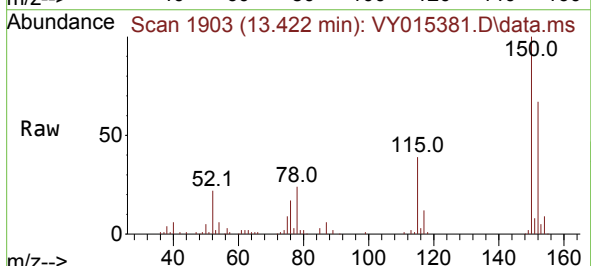
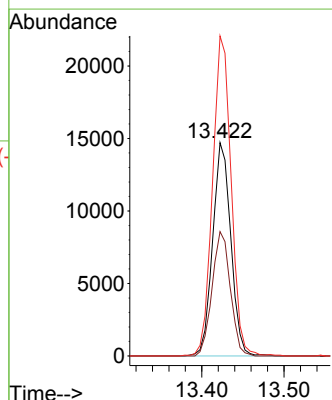
Tgt Ion:152 Resp: 22585

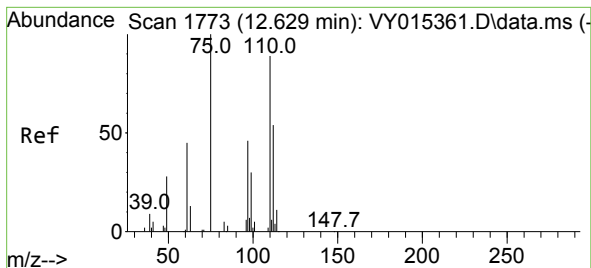
Ion Ratio Lower Upper

152 100

115 58.3 28.8 86.5

150 153.1 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 38.911 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

Instrument :

MSVOA\_Y

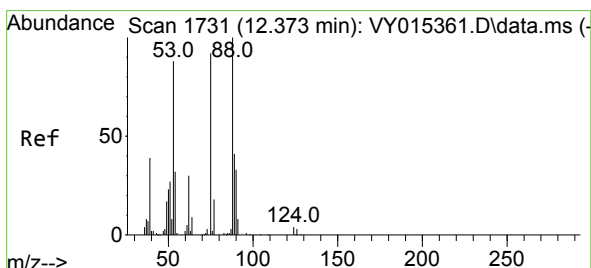
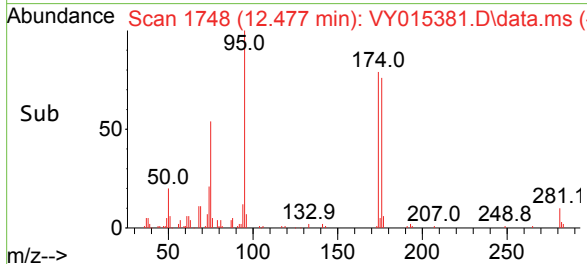
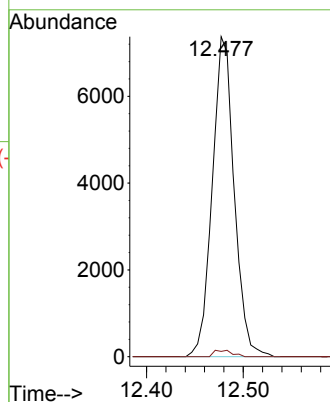
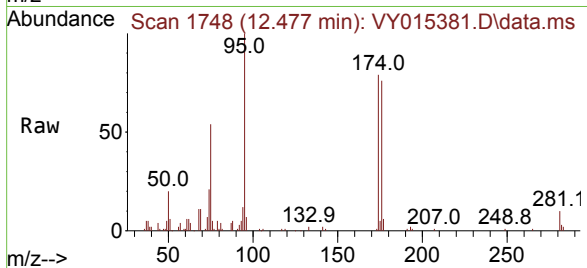
ClientSampleId :

Tgt Ion: 75 Resp: 11606

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.481 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY015381.D

Acq: 30 Aug 2023 16:37

Tgt Ion: 75 Resp: 11606

Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.0 37.4 56.0#

