

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021523\  
 Data File : VY012613.D  
 Acq On : 15 Feb 2023 14:30  
 Operator : KP/MD  
 Sample : 01552-05RE  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Feb 16 00:56:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 01:09:03 2023  
 Response via : Initial Calibration

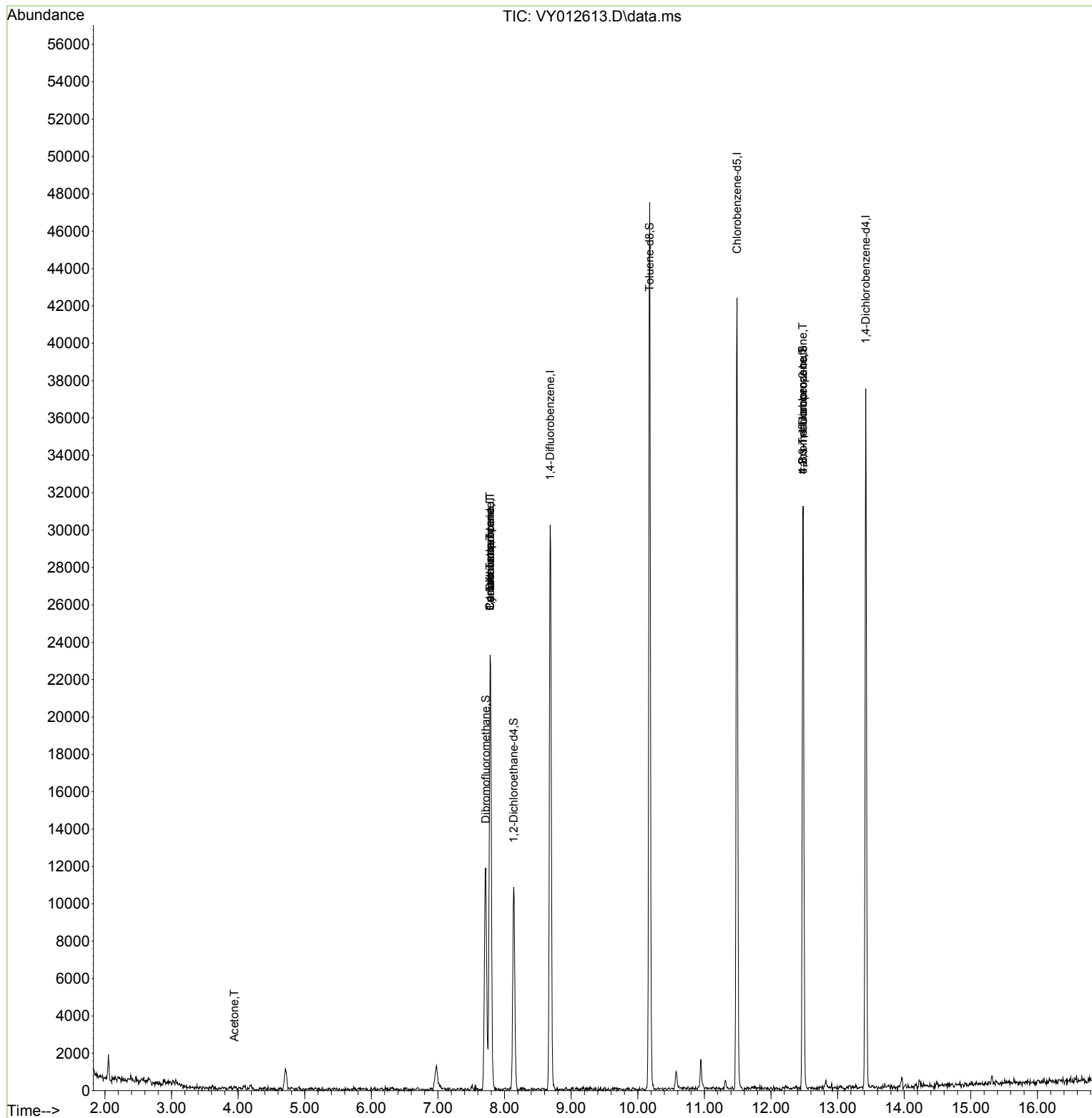
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 19793    | 50.000    | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 29436    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 26182    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 10894    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65    | 9388     | 37.300    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 74.600%  |
| 35) Dibromofluoromethane      | 7.716  | 113   | 8261     | 38.536    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 77.080%  |
| 50) Toluene-d8                | 10.179 | 98    | 33221    | 37.232    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 74.460%  |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 9310     | 29.914    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 59.820%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.668  | 94    | 50       | Below Cal |        | 91       |
| 11) Tert butyl alcohol        | 4.912  | 59    | 18       | Below Cal | #      | 75       |
| 16) Acetone                   | 3.942  | 43    | 70       | 1.156     | ug/l # | 41       |
| 20) Methylene Chloride        | 4.710  | 84    | 870      | Below Cal |        | 92       |
| 31) Cyclohexane               | 7.783  | 56    | 296      | 1.017     | ug/l # | 40       |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 1132     | 3.902     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 1919     | 4.927     | ug/l # | 13       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 4640     | 38.123    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 4640     | 85.969    | ug/l # | 12       |
| -----                         |        |       |          |           |        |          |

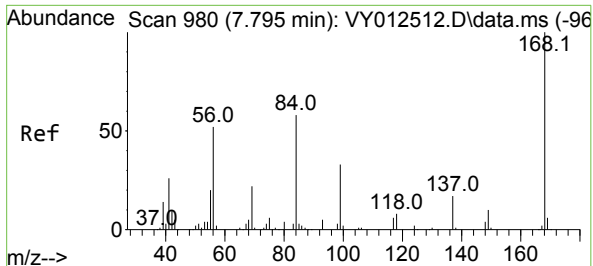
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Feb 16 00:56:26 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020723S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 08 01:09:03 2023  
Response via : Initial Calibration

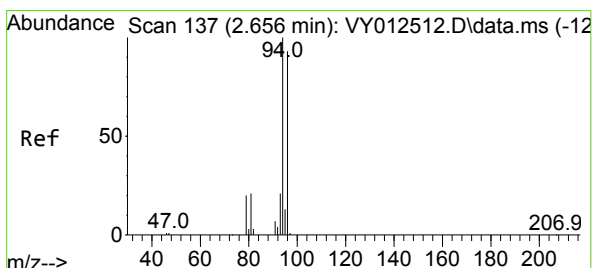
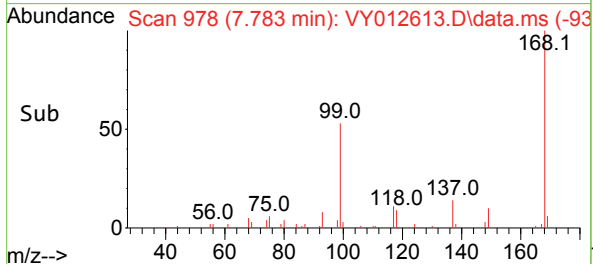
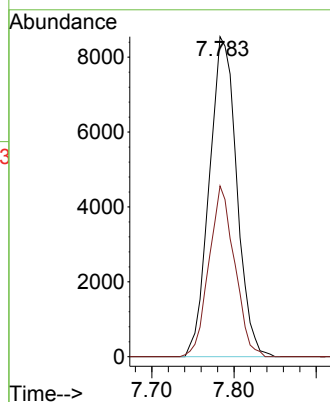
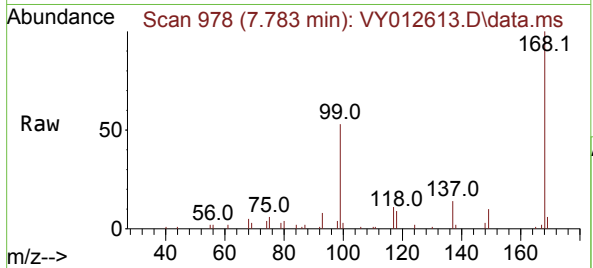




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

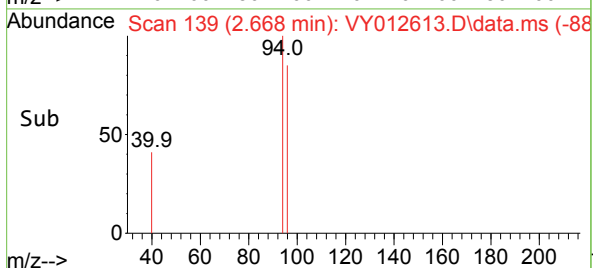
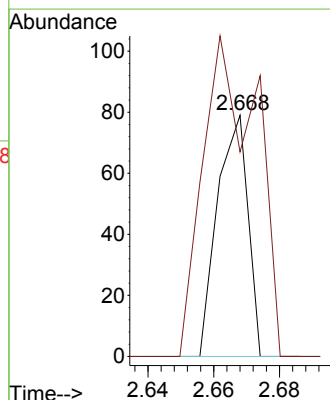
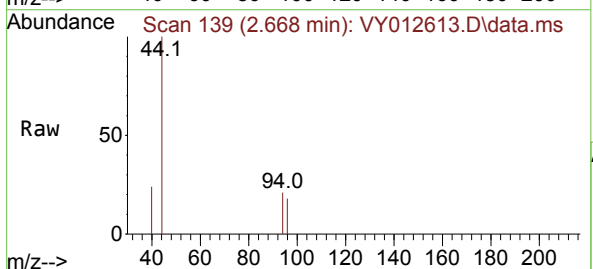
Instrument :  
MSVOA\_Y  
ClientSampleId :

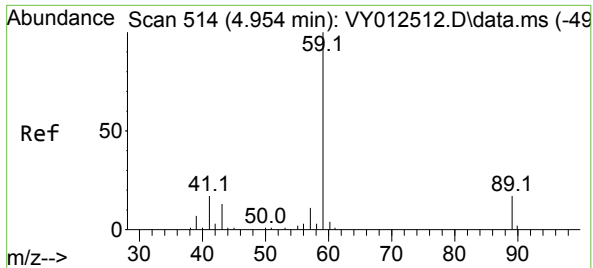
Tgt Ion:168 Resp: 19793  
Ion Ratio Lower Upper  
168 100  
99 53.4 40.8 61.2



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.668 min Scan# 139  
Delta R.T. 0.012 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

Tgt Ion: 94 Resp: 50  
Ion Ratio Lower Upper  
94 100  
96 84.8 74.7 112.1





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.912 min Scan# 50

Delta R.T. -0.042 min

Lab File: VY012613.D

Acq: 15 Feb 2023 14:30

Instrument :

MSVOA\_Y

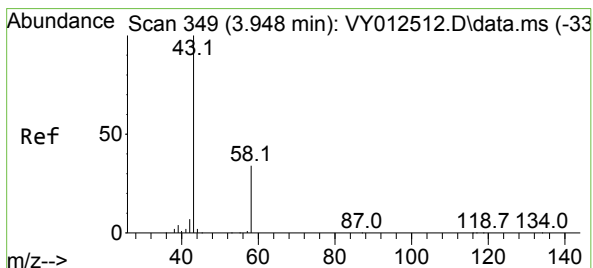
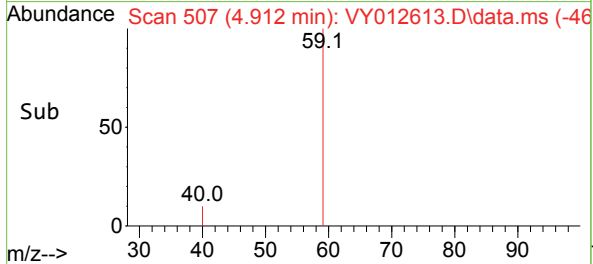
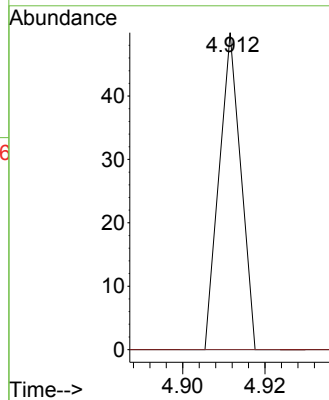
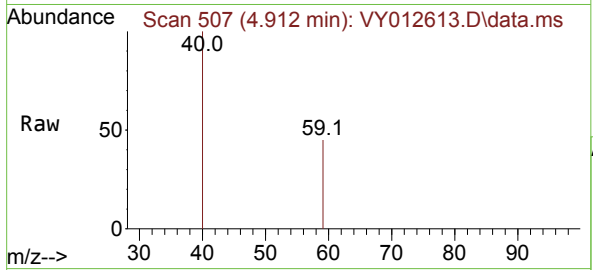
ClientSampleId :

Tgt Ion: 59 Resp: 18

Ion Ratio Lower Upper

59 100

57 0.0 7.2 10.8#



#16

Acetone

Concen: 1.156 ug/l

RT: 3.942 min Scan# 348

Delta R.T. -0.006 min

Lab File: VY012613.D

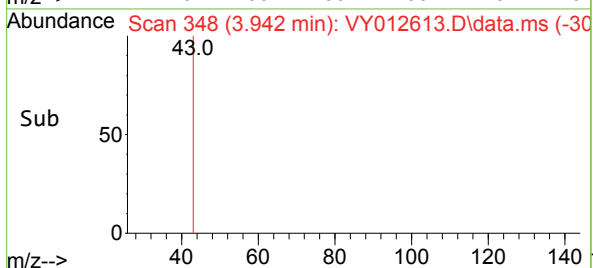
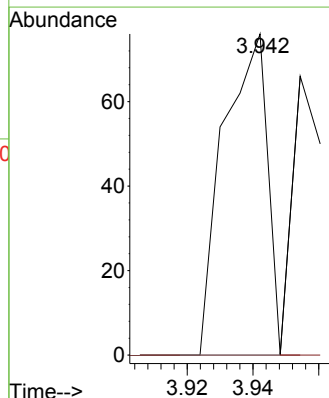
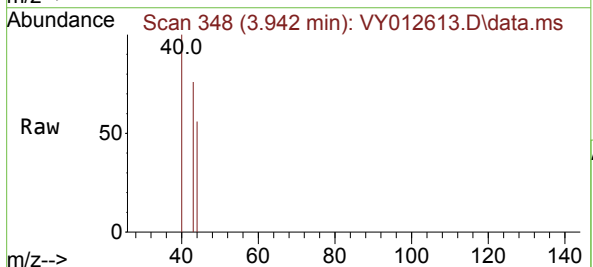
Acq: 15 Feb 2023 14:30

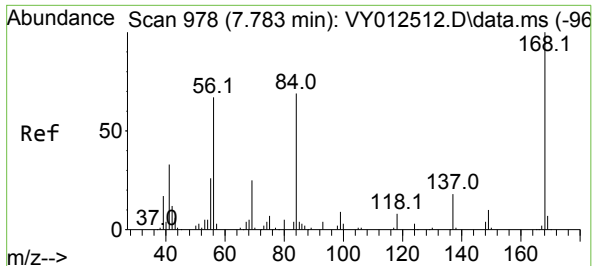
Tgt Ion: 43 Resp: 70

Ion Ratio Lower Upper

43 100

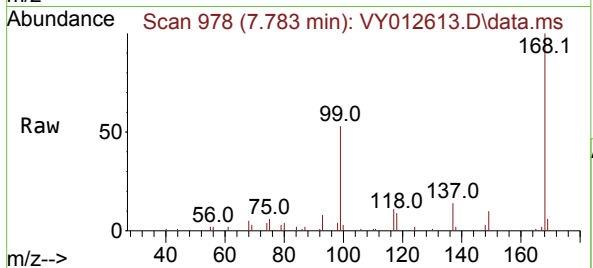
58 0.0 27.1 40.7#



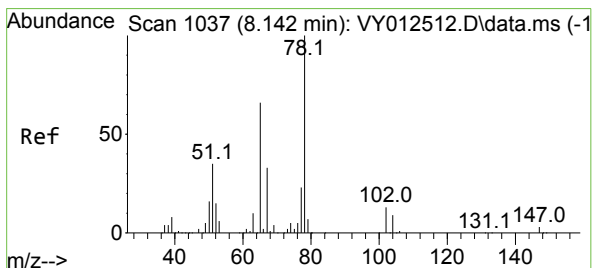
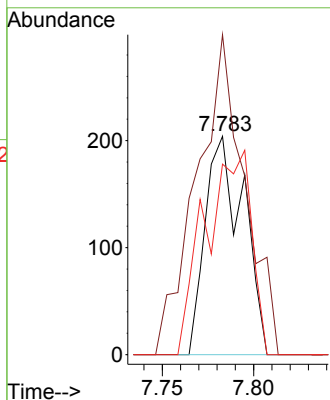
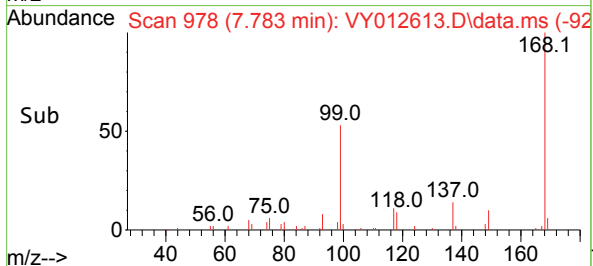


#31  
Cyclohexane  
Concen: 1.017 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

Instrument :  
MSVOA\_Y  
ClientSampleId :

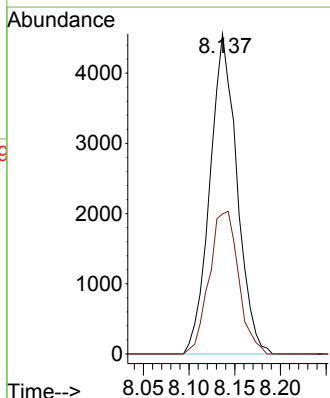
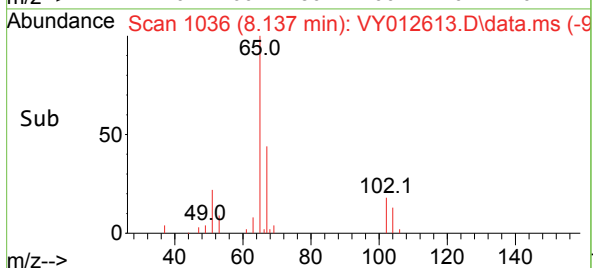
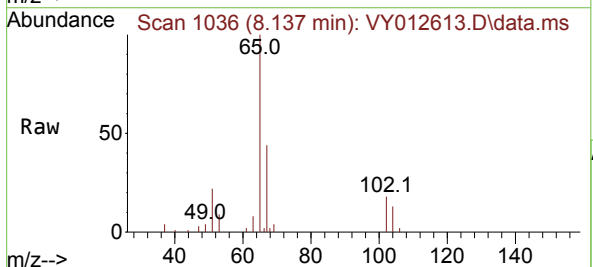


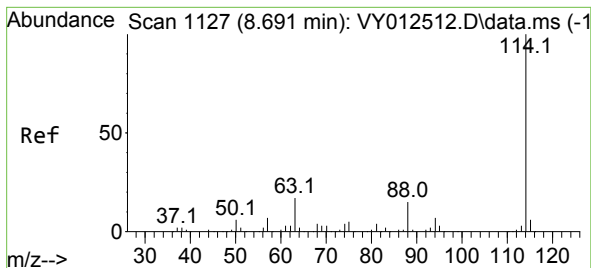
Tgt Ion: 56 Resp: 296  
Ion Ratio Lower Upper  
56 100  
69 146.6 29.5 44.3#  
84 87.3 81.9 122.9



#33  
1,2-Dichloroethane-d4  
Concen: 37.300 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. -0.006 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

Tgt Ion: 65 Resp: 9388  
Ion Ratio Lower Upper  
65 100  
67 48.2 0.0 98.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY012613.D

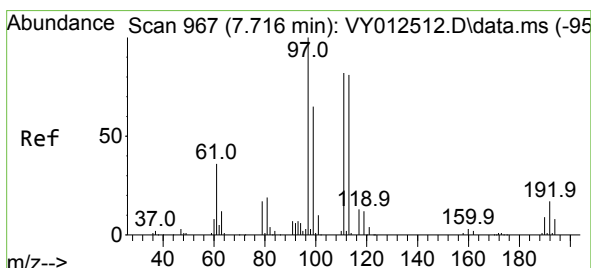
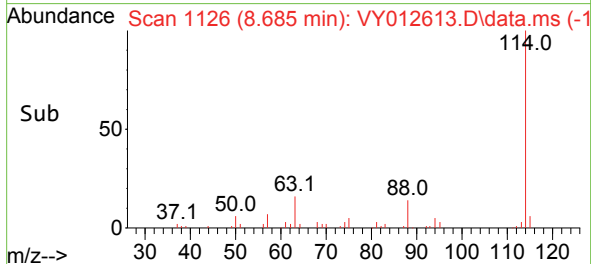
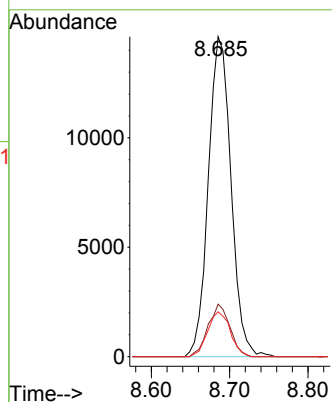
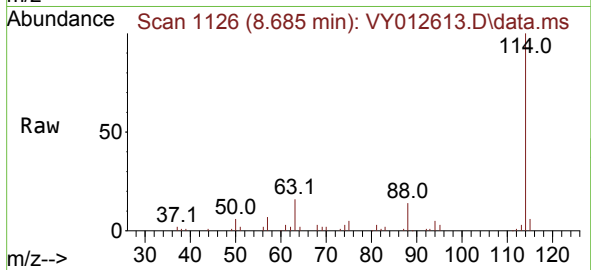
Acq: 15 Feb 2023 14:30

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:114 | Resp: | 29436    |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 16.4  | 0.0 33.6 |
| 88          | 14.0  | 0.0 29.8 |



#35

Dibromofluoromethane

Concen: 38.536 ug/l

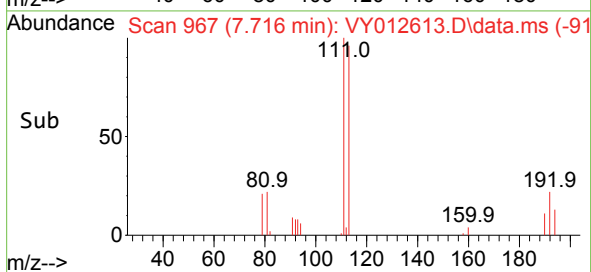
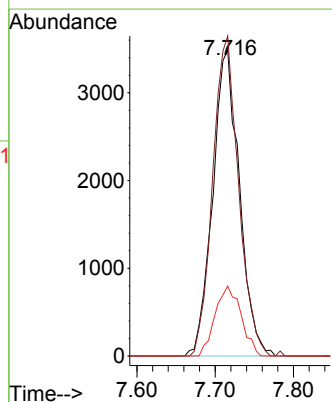
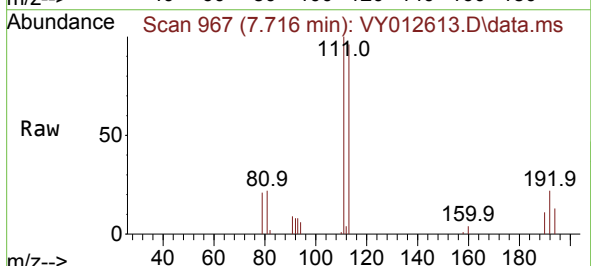
RT: 7.716 min Scan# 967

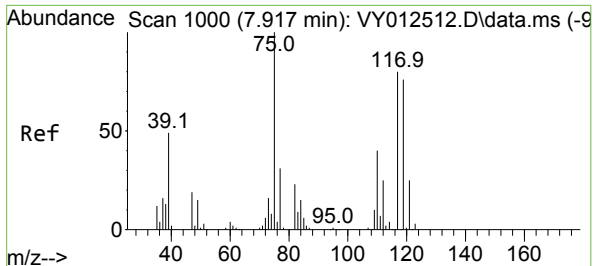
Delta R.T. 0.000 min

Lab File: VY012613.D

Acq: 15 Feb 2023 14:30

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 8261       |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 101.2 | 81.9 122.9 |
| 192         | 22.2  | 17.5 26.3  |





#36

1,1-Dichloropropene

Concen: 3.902 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY012613.D

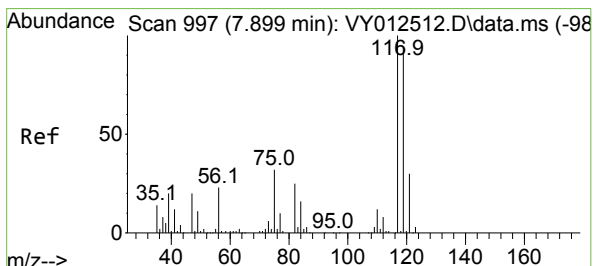
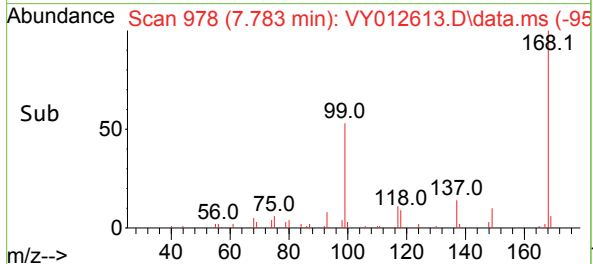
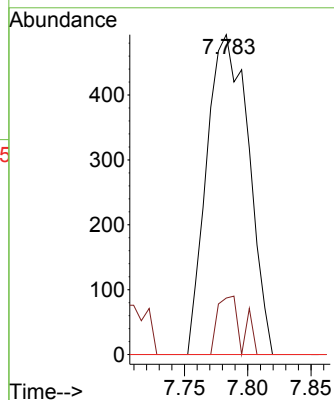
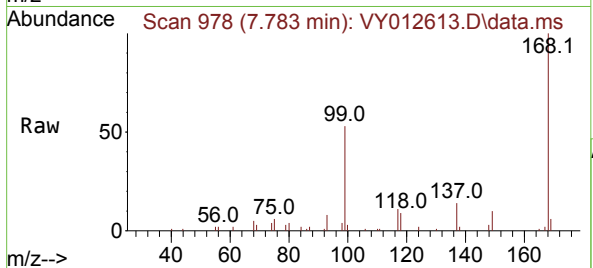
Acq: 15 Feb 2023 14:30

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 75 | Resp: | 1132       |
| Ion Ratio   | Lower | Upper      |
| 75          | 100   |            |
| 110         | 10.5  | 19.5 58.5# |
| 77          | 0.0   | 24.9 37.3# |



#38

Carbon Tetrachloride

Concen: 4.927 ug/l

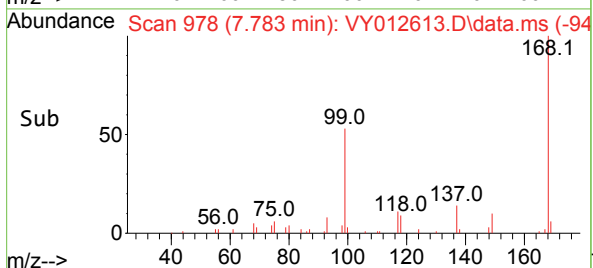
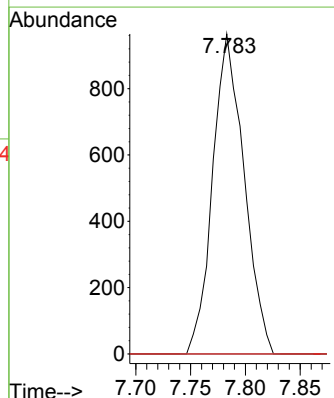
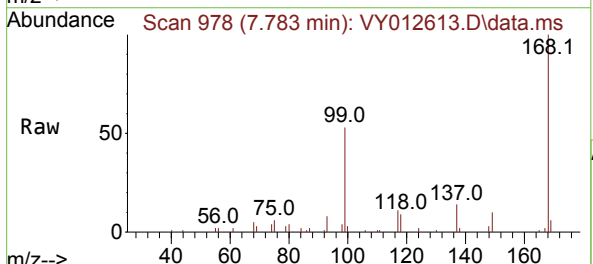
RT: 7.783 min Scan# 978

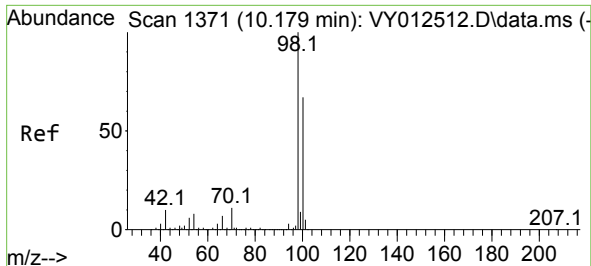
Delta R.T. -0.116 min

Lab File: VY012613.D

Acq: 15 Feb 2023 14:30

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 117 | Resp: | 1919        |
| Ion Ratio    | Lower | Upper       |
| 117          | 100   |             |
| 119          | 0.0   | 75.1 112.7# |
| 121          | 0.0   | 24.3 36.5#  |

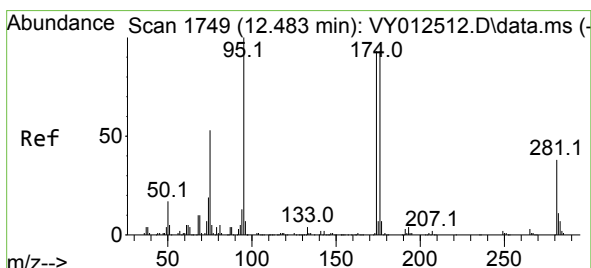
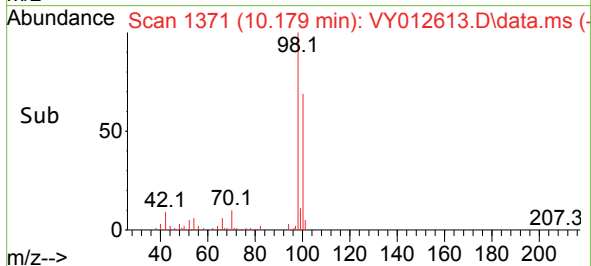
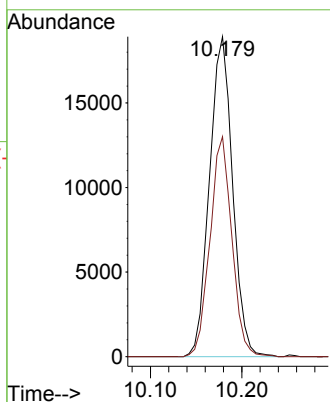
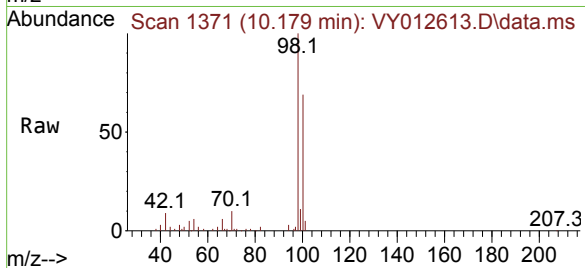




#50  
Toluene-d8  
Concen: 37.232 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

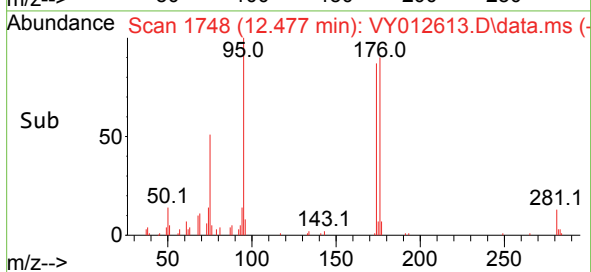
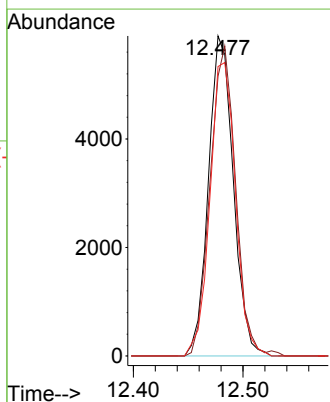
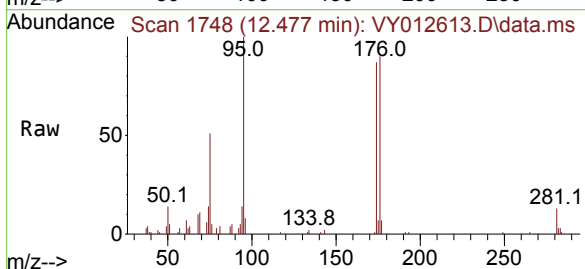
Instrument :  
MSVOA\_Y  
ClientSampleId :

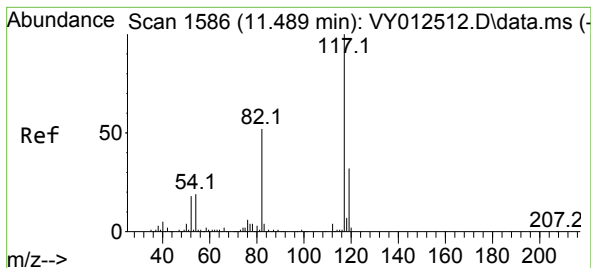
Tgt Ion: 98 Resp: 33221  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 29.914 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

Tgt Ion: 95 Resp: 9310  
Ion Ratio Lower Upper  
95 100  
174 99.3 0.0 188.0  
176 94.3 0.0 183.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY012613.D

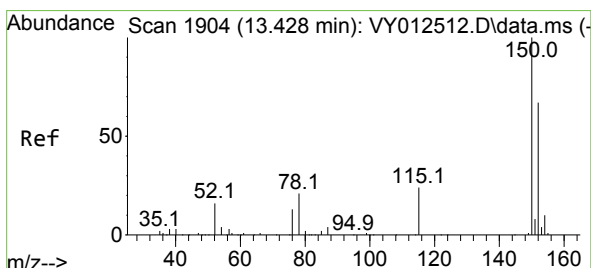
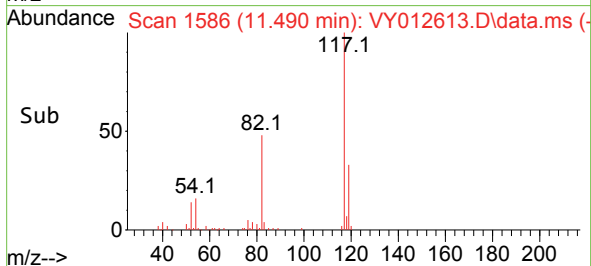
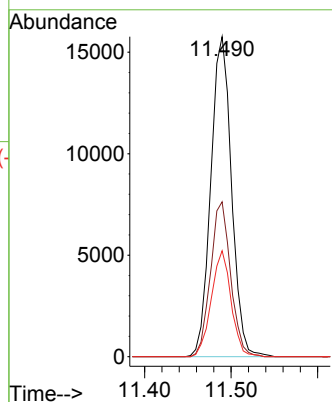
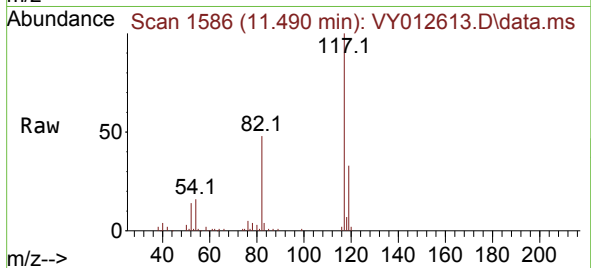
Acq: 15 Feb 2023 14:30

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:117 | Resp: | 26182     |
| Ion Ratio   | Lower | Upper     |
| 117         | 100   |           |
| 82          | 48.4  | 41.7 62.5 |
| 119         | 33.1  | 25.8 38.8 |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

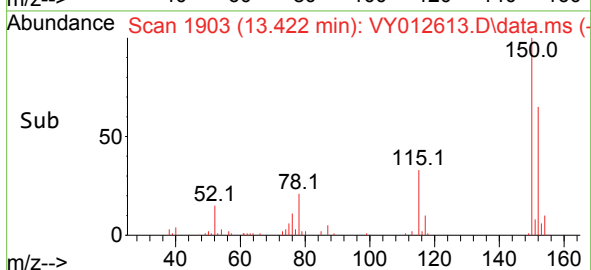
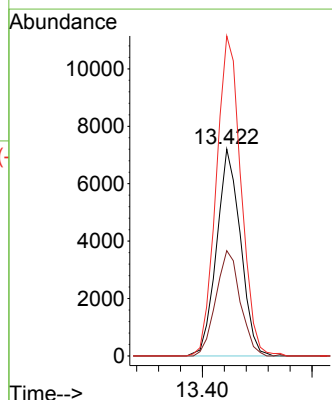
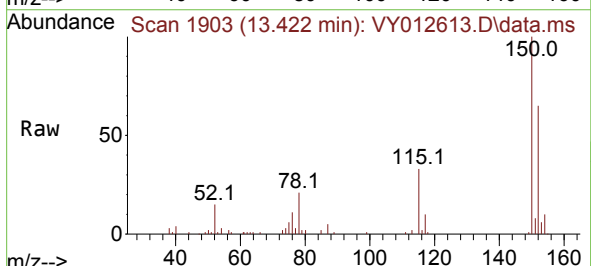
RT: 13.422 min Scan# 1903

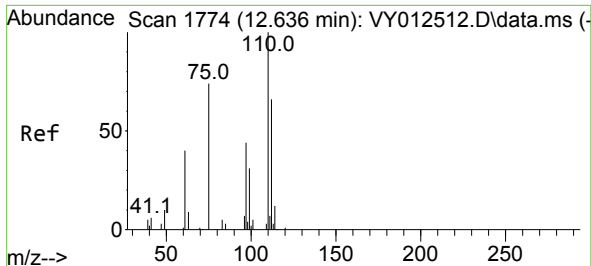
Delta R.T. -0.006 min

Lab File: VY012613.D

Acq: 15 Feb 2023 14:30

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 10894     |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 115         | 52.0  | 28.1 84.3 |
| 150         | 160.5 | 0.0 351.0 |

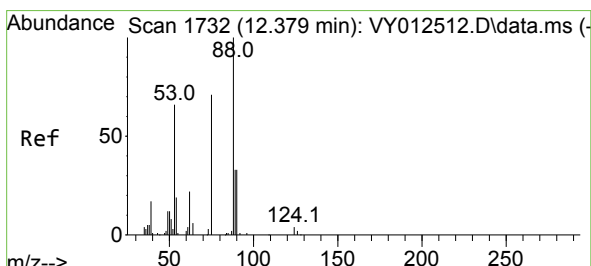
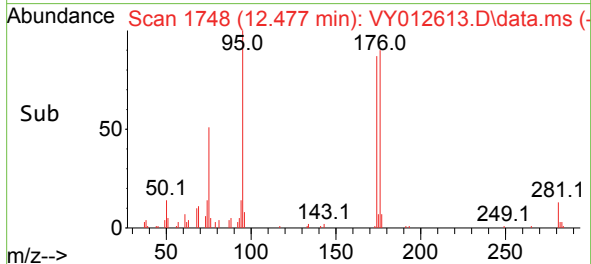
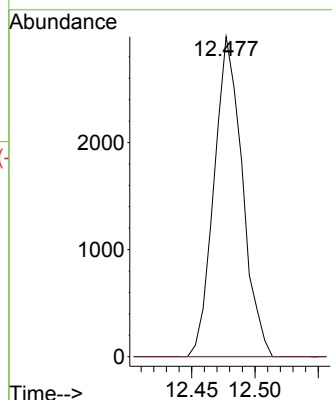
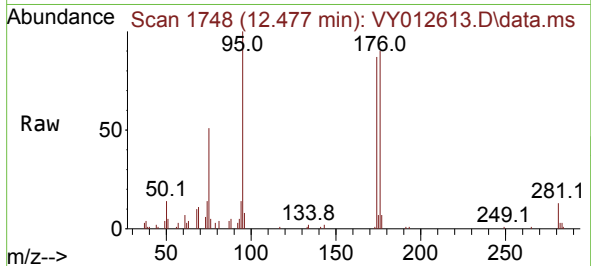




#76  
1,2,3-Trichloropropane  
Concen: 38.123 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.158 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 4640  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 85.969 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.098 min  
Lab File: VY012613.D  
Acq: 15 Feb 2023 14:30

Tgt Ion: 75 Resp: 4640  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.1 109.7#  
89 0.0 39.9 59.9#

