

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062823\  
 Data File : VY014478.D  
 Acq On : 28 Jun 2023 14:11  
 Operator : KP/MD  
 Sample : 03434-03  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 350

Quant Time: Jun 29 02:17:44 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 17:18:46 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 118177   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 178589   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 169184   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 80624    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.143  | 65    | 77201    | 52.615   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 105.240% |
| 35) Dibromofluoromethane    | 7.716  | 113   | 57431    | 52.051   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 104.100% |
| 50) Toluene-d8              | 10.179 | 98    | 212779   | 48.513   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 97.020%  |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 67388    | 43.037   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 86.080%  |

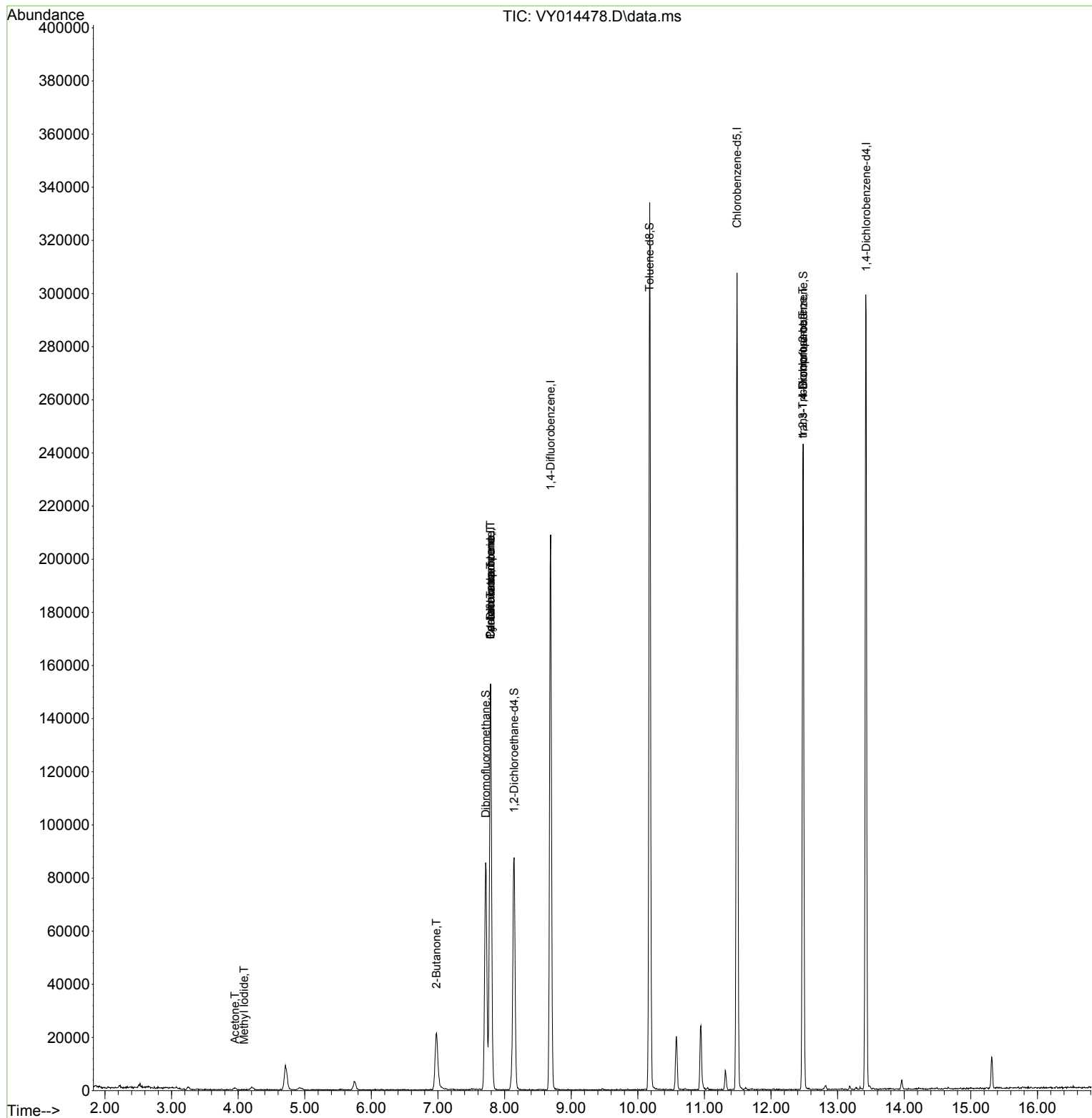
| Target Compounds              |        |     |       |           | Qvalue |     |
|-------------------------------|--------|-----|-------|-----------|--------|-----|
| 10) Methyl Iodide             | 4.088  | 142 | 150   | 2.973     | ug/l # | 38  |
| 11) Tert butyl alcohol        | 4.942  | 59  | 159   | Below Cal | #      | 89  |
| 16) Acetone                   | 3.954  | 43  | 753   | 1.631     | ug/l # | 86  |
| 20) Methylene Chloride        | 4.710  | 84  | 7048  | Below Cal | #      | 84  |
| 25) 2-Butanone                | 6.978  | 43  | 946   | 1.645     | ug/l # | 49  |
| 31) Cyclohexane               | 7.789  | 56  | 2550  | 1.407     | ug/l # | 6   |
| 36) 1,1-Dichloropropene       | 7.789  | 75  | 8356  | 4.914     | ug/l # | 51  |
| 38) Carbon Tetrachloride      | 7.789  | 117 | 11607 | 5.425     | ug/l # | 16  |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75  | 37690 | 37.267    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75  | 37690 | 84.844    | ug/l # | 11  |

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

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
350

Quant Time: Jun 29 02:17:44 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062323S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 17:18:46 2023  
Response via : Initial Calibration

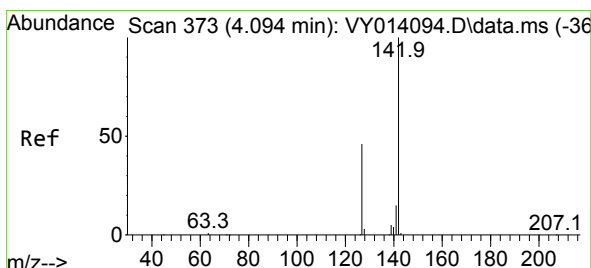
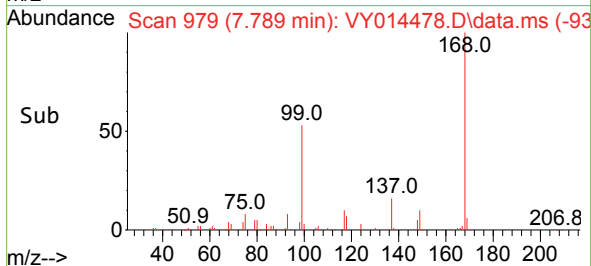
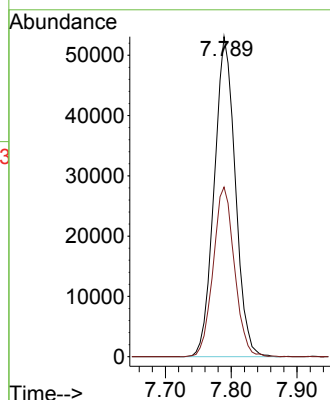
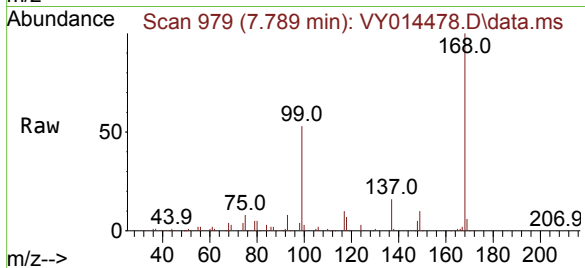




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014478.D  
Acq: 28 Jun 2023 14:11

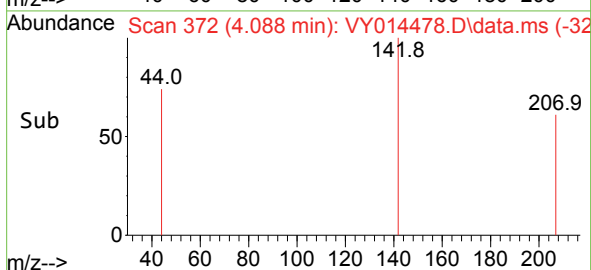
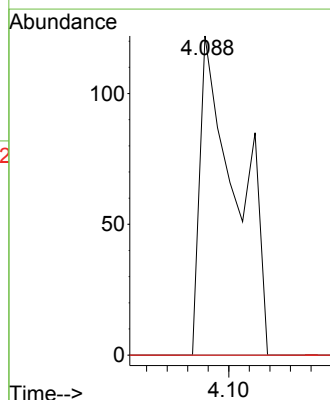
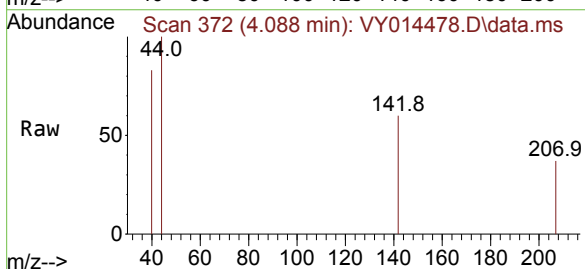
Instrument :  
MSVOA\_Y  
ClientSampleId :  
350

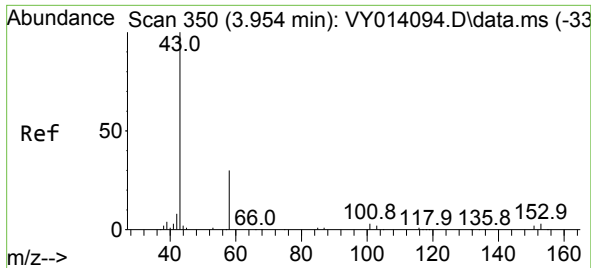
Tgt Ion:168 Resp: 118177  
Ion Ratio Lower Upper  
168 100  
99 53.0 43.4 65.0



#10  
Methyl Iodide  
Concen: 2.973 ug/l  
RT: 4.088 min Scan# 372  
Delta R.T. -0.006 min  
Lab File: VY014478.D  
Acq: 28 Jun 2023 14:11

Tgt Ion:142 Resp: 150  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#





#16

Acetone

Concen: 1.631 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.000 min

Lab File: VY014478.D

Acq: 28 Jun 2023 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

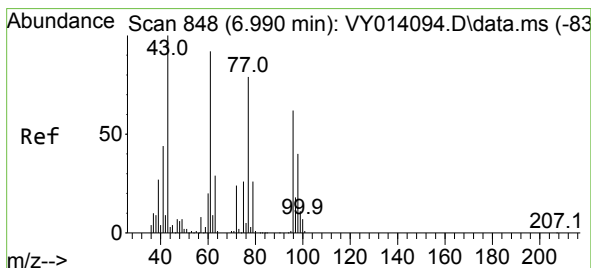
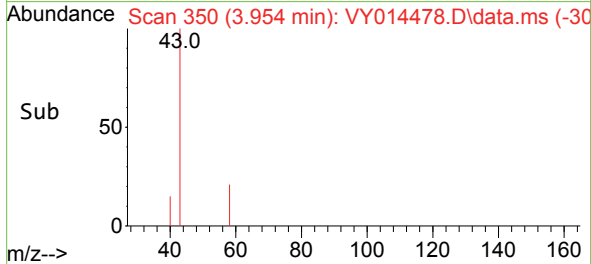
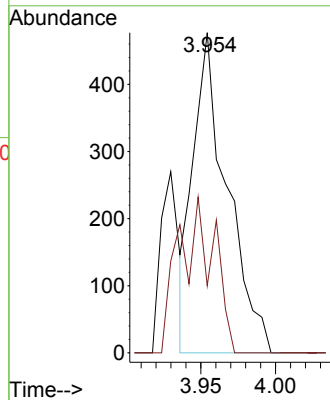
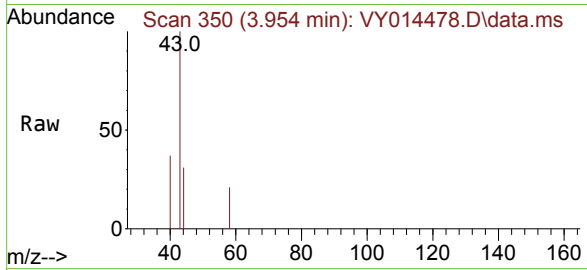
350

Tgt Ion: 43 Resp: 753

Ion Ratio Lower Upper

43 100

58 21.0 22.7 34.1#



#25

2-Butanone

Concen: 1.645 ug/l

RT: 6.978 min Scan# 846

Delta R.T. -0.012 min

Lab File: VY014478.D

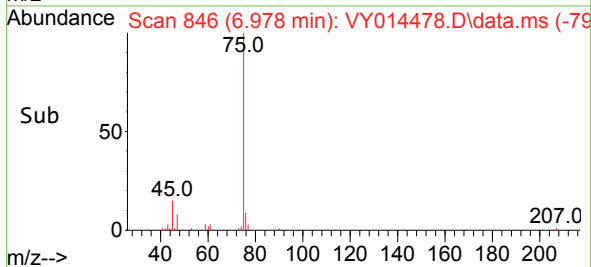
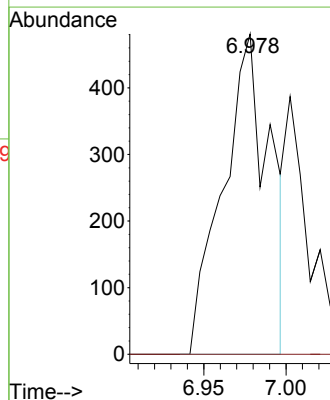
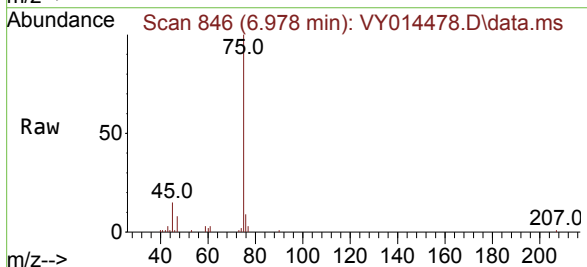
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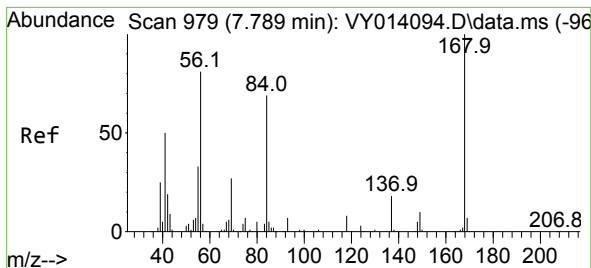
Tgt Ion: 43 Resp: 946

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#





#31

Cyclohexane

Concen: 1.407 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY014478.D

Acq: 28 Jun 2023 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

350

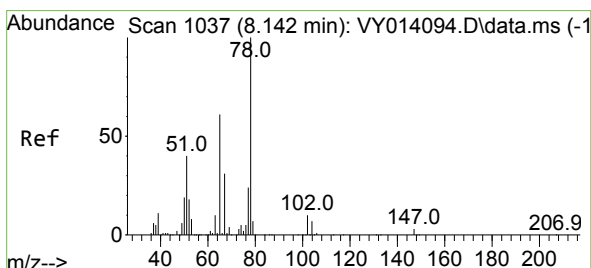
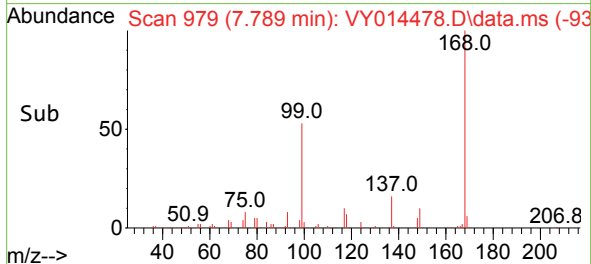
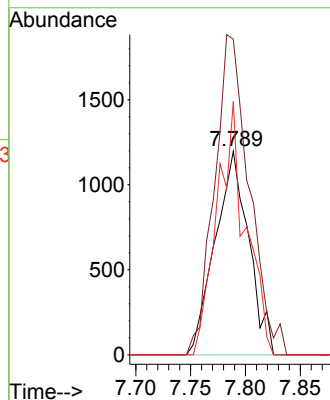
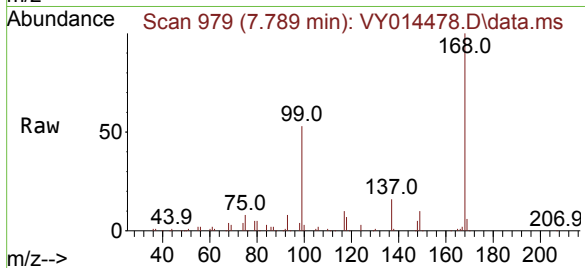
Tgt Ion: 56 Resp: 2550

Ion Ratio Lower Upper

56 100

69 155.1 27.8 41.6#

84 124.5 66.4 99.6#



#33

1,2-Dichloroethane-d4

Concen: 52.615 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.001 min

Lab File: VY014478.D

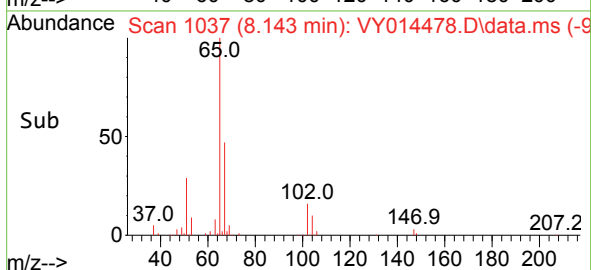
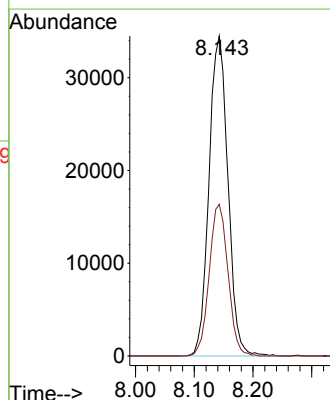
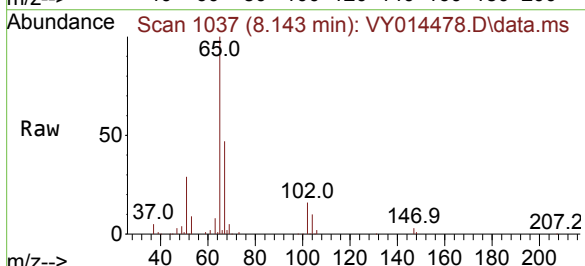
Acq: 28 Jun 2023 14:11

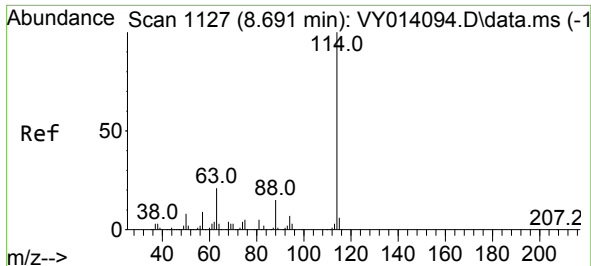
Tgt Ion: 65 Resp: 77201

Ion Ratio Lower Upper

65 100

67 47.0 0.0 101.8

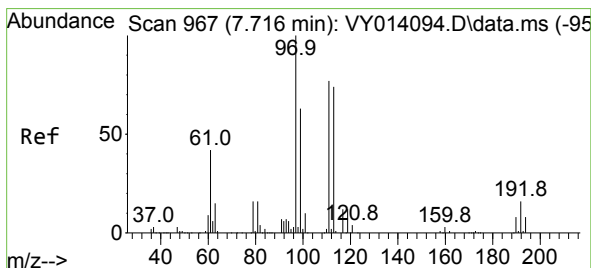
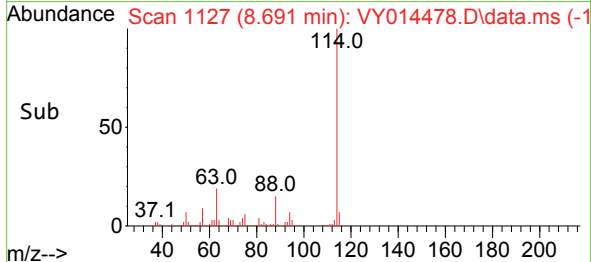
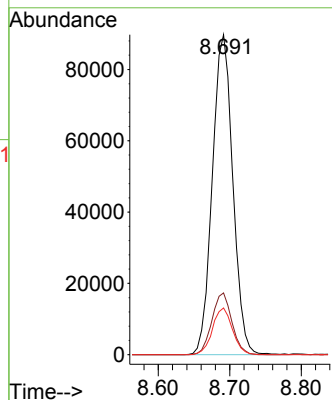
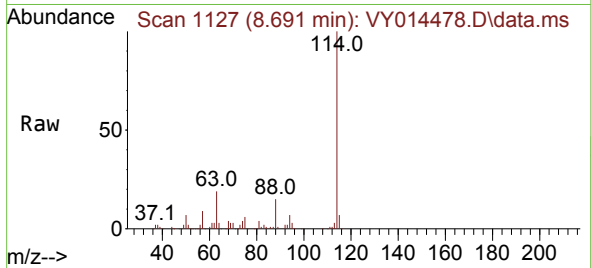




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VY014478.D  
Acq: 28 Jun 2023 14:11

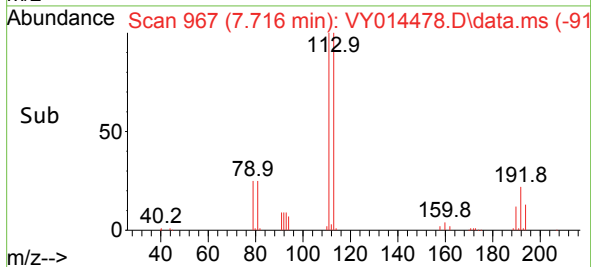
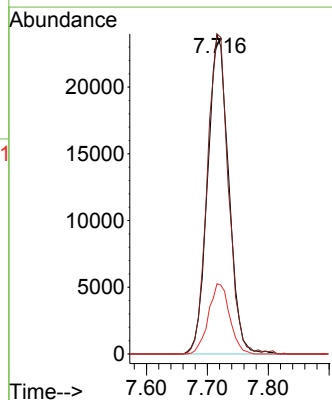
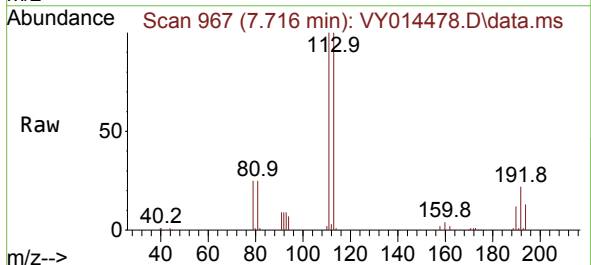
Instrument :  
MSVOA\_Y  
ClientSampleId :  
350

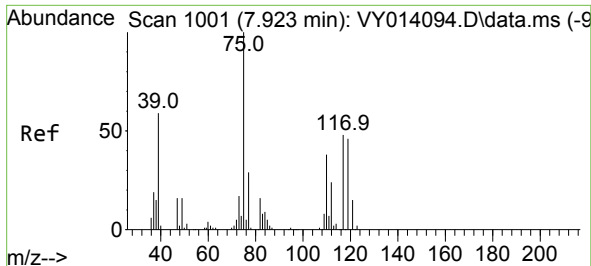
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 178589 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 19.3  | 0.0   | 42.4   |
| 88        | 14.6  | 0.0   | 30.6   |



#35  
Dibromofluoromethane  
Concen: 52.051 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VY014478.D  
Acq: 28 Jun 2023 14:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 57431 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 100.6 | 81.3  | 121.9 |
| 192       | 22.1  | 16.9  | 25.3  |

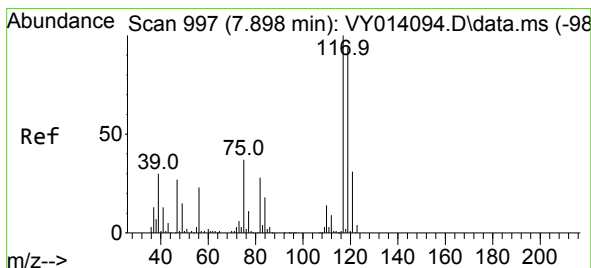
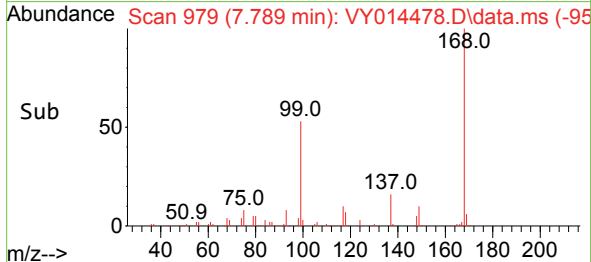
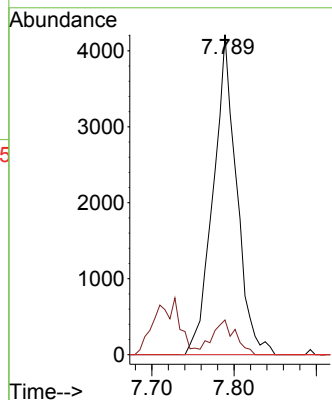
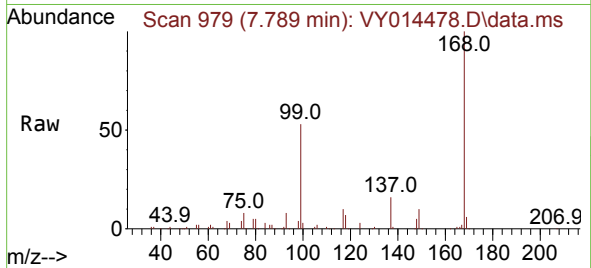




#36  
 1,1-Dichloropropene  
 Concen: 4.914 ug/l  
 RT: 7.789 min Scan# 91  
 Delta R.T. -0.134 min  
 Lab File: VY014478.D  
 Acq: 28 Jun 2023 14:11

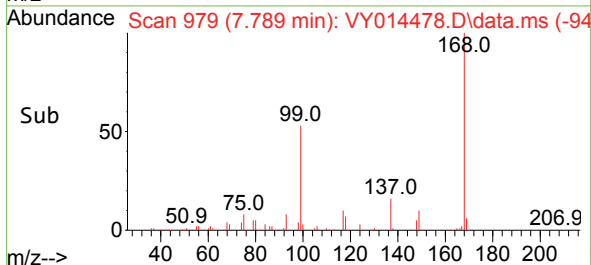
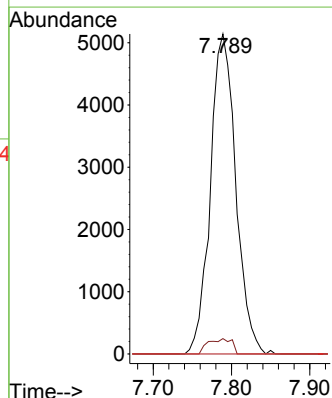
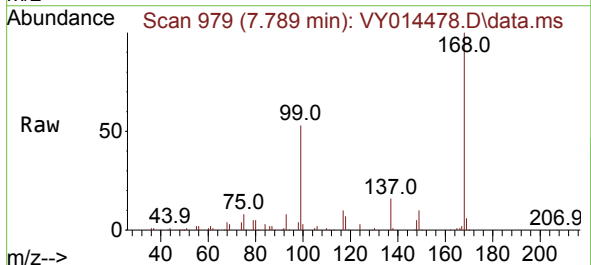
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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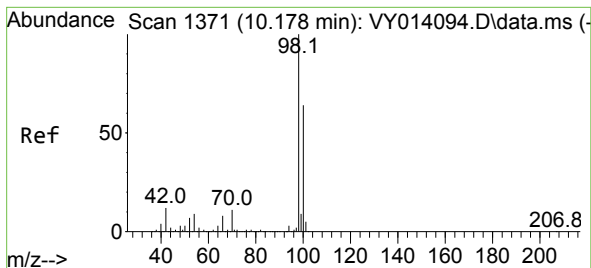
Tgt Ion: 75 Resp: 8356  
 Ion Ratio Lower Upper  
 75 100  
 110 10.5 17.8 53.5#  
 77 0.0 24.4 36.6#



#38  
 Carbon Tetrachloride  
 Concen: 5.425 ug/l  
 RT: 7.789 min Scan# 979  
 Delta R.T. -0.109 min  
 Lab File: VY014478.D  
 Acq: 28 Jun 2023 14:11

Tgt Ion: 117 Resp: 11607  
 Ion Ratio Lower Upper  
 117 100  
 119 4.8 76.4 114.6#  
 121 0.0 25.8 38.6#

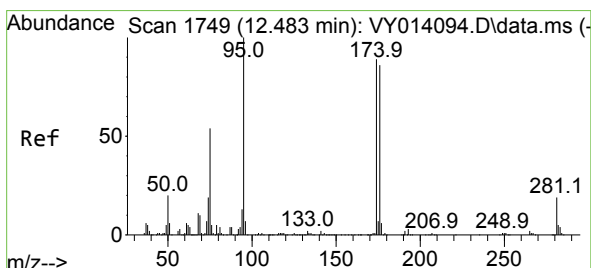
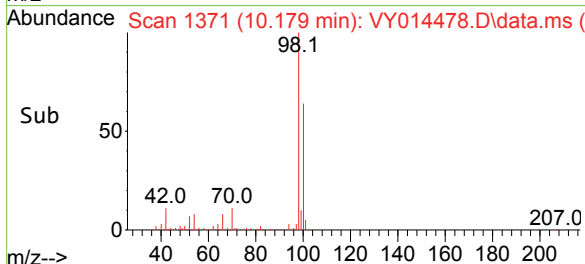
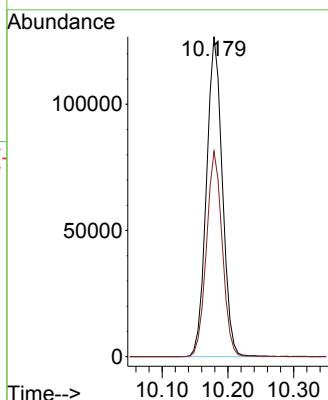
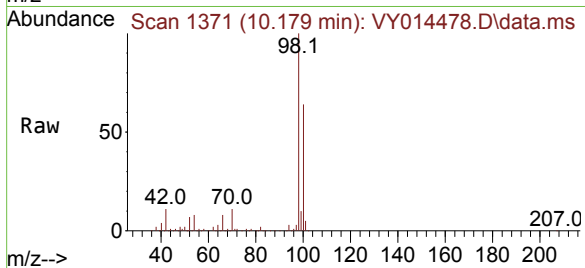




#50  
Toluene-d8  
Concen: 48.513 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.001 min  
Lab File: VY014478.D  
Acq: 28 Jun 2023 14:11

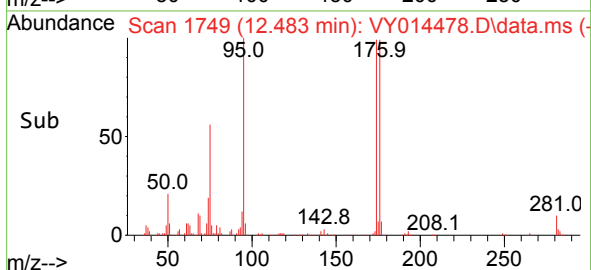
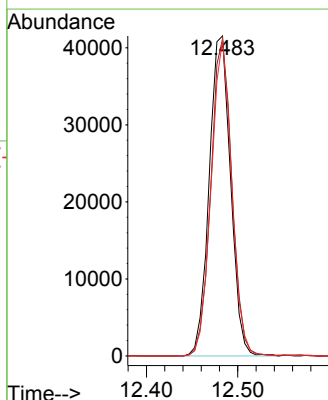
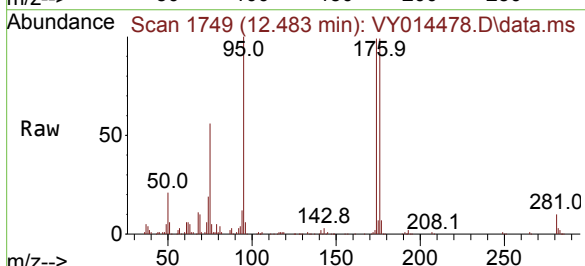
Instrument :  
MSVOA\_Y  
ClientSampleId :  
350

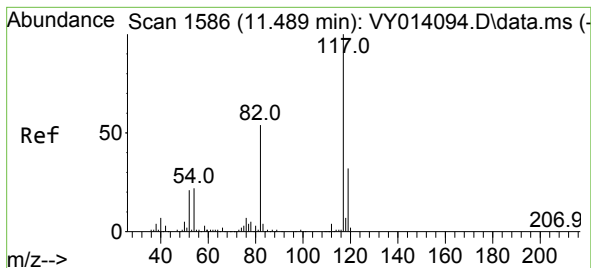
Tgt Ion: 98 Resp: 212779  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 43.037 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY014478.D  
Acq: 28 Jun 2023 14:11

Tgt Ion: 95 Resp: 67388  
Ion Ratio Lower Upper  
95 100  
174 97.2 0.0 178.2  
176 94.9 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: VY014478.D

Acq: 28 Jun 2023 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

350

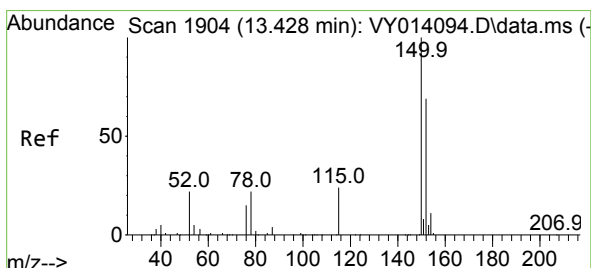
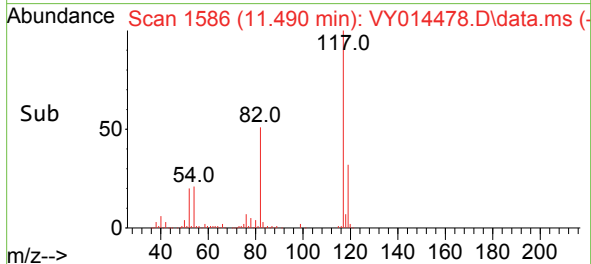
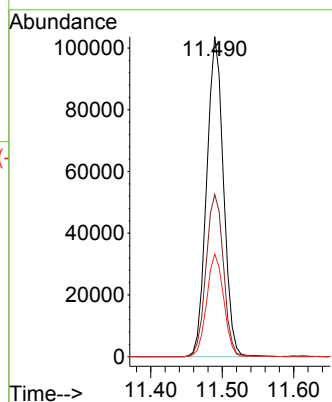
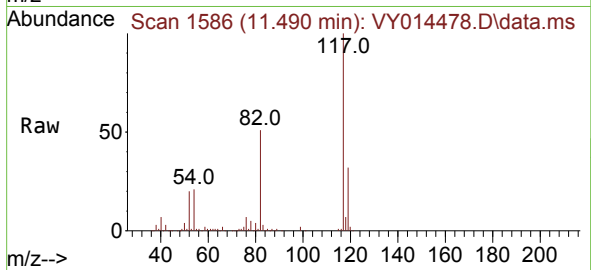
Tgt Ion:117 Resp: 169184

Ion Ratio Lower Upper

117 100

82 50.6 43.4 65.0

119 32.1 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY014478.D

Acq: 28 Jun 2023 14:11

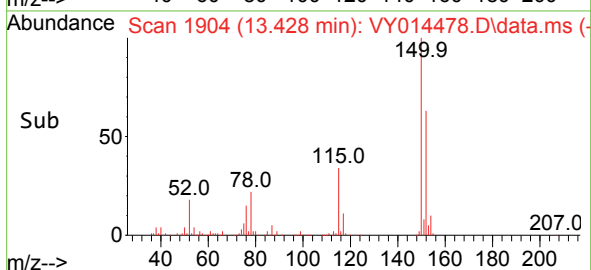
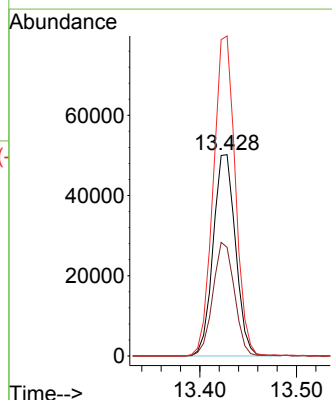
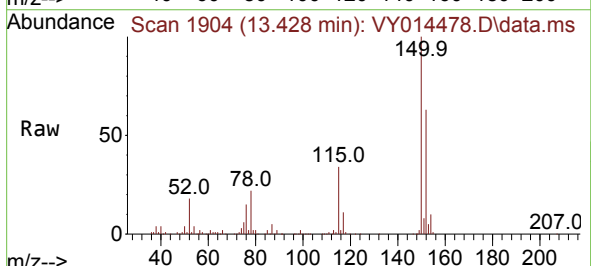
Tgt Ion:152 Resp: 80624

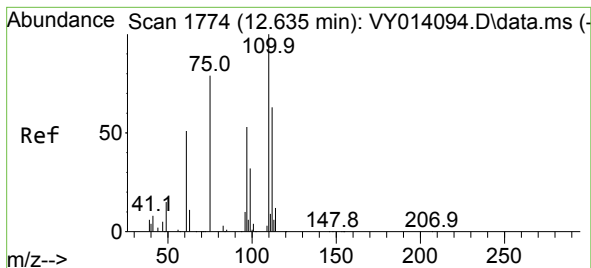
Ion Ratio Lower Upper

152 100

115 54.6 28.8 86.5

150 156.7 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 37.267 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.158 min

Lab File: VY014478.D

Acq: 28 Jun 2023 14:11

Instrument :

MSVOA\_Y

ClientSampleId :

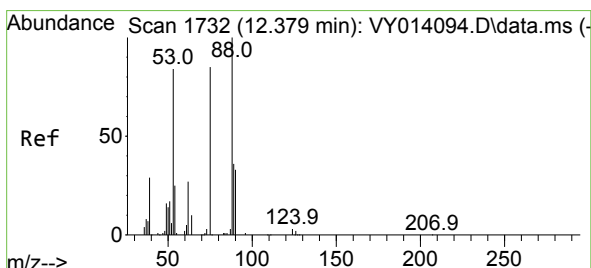
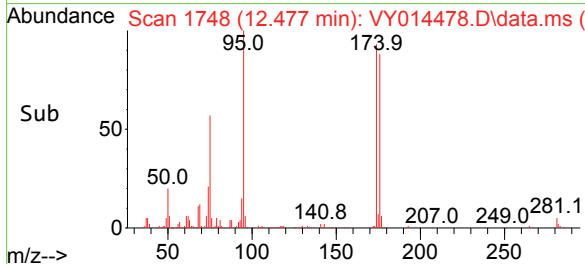
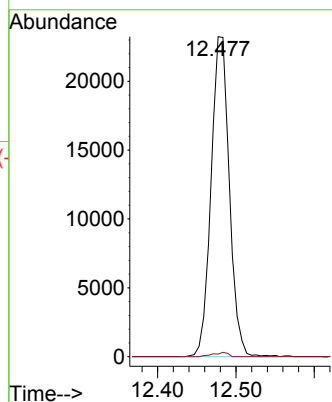
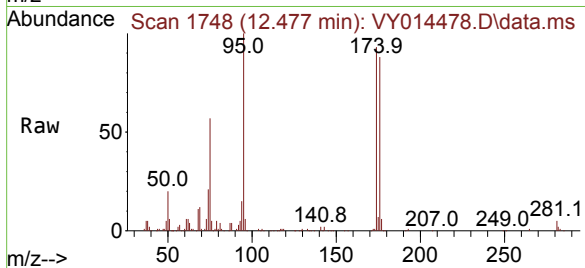
350

Tgt Ion: 75 Resp: 37690

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.844 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY014478.D

Acq: 28 Jun 2023 14:11

Tgt Ion: 75 Resp: 37690

Ion Ratio Lower Upper

75 100

53 0.2 77.8 116.8#

89 0.1 37.4 56.0#

