

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY013123\  
 Data File : VY012426.D  
 Acq On : 31 Jan 2023 17:32  
 Operator : KP/MD  
 Sample : 01371-03  
 Misc : 7.32g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 3-RT-15-S

Quant Time: Feb 01 01:26:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 04:31:47 2023  
 Response via : Initial Calibration

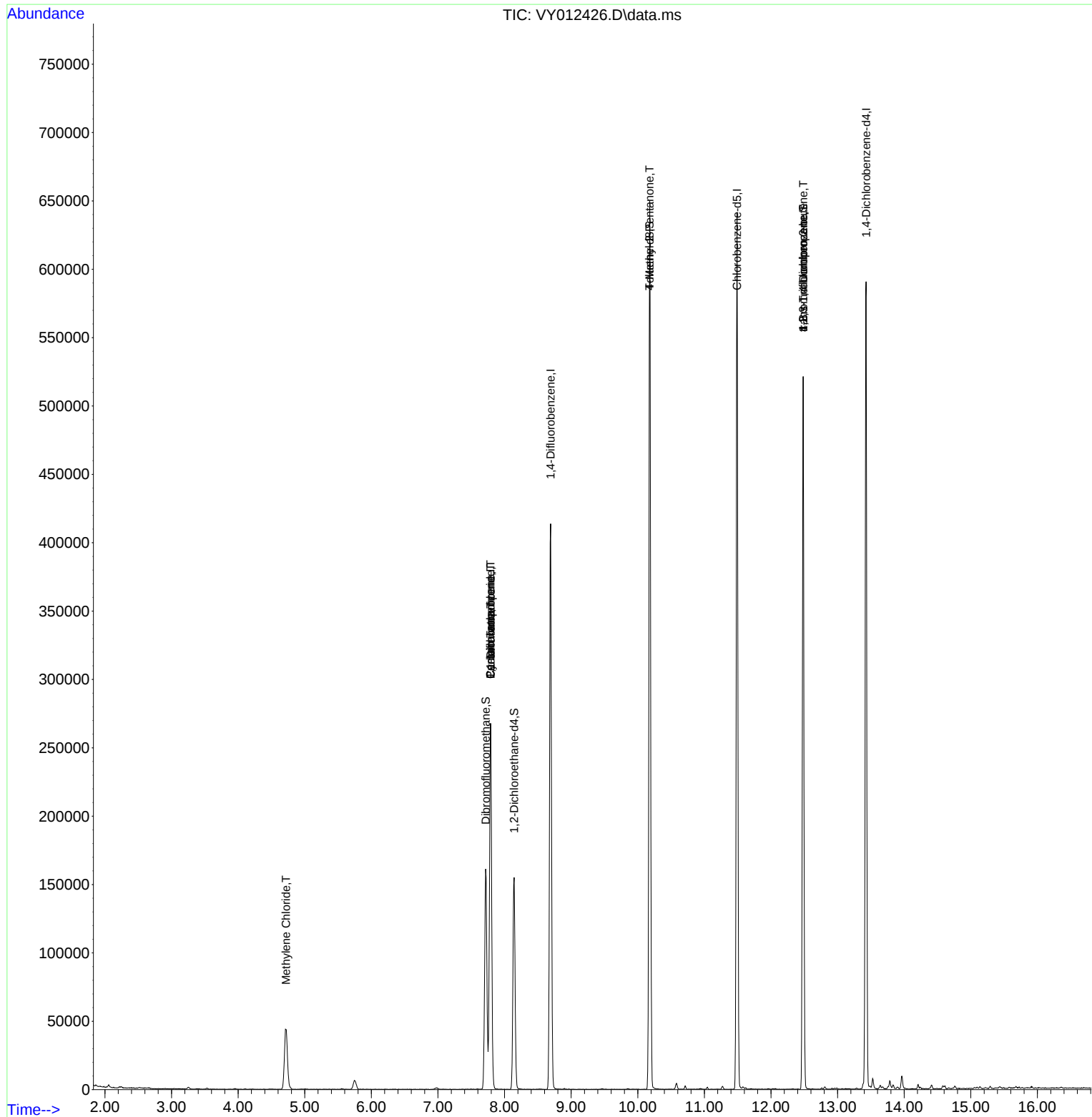
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 217066   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 367795   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 356978   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 164513   | 50.000    | ug/l       | 0.00     |
|                               |           |       |          |           |            |          |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143     | 65    | 128789   | 73.422    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 146.840% |          |
| 35) Dibromofluoromethane      | 7.716     | 113   | 112304   | 57.666    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 115.340% |          |
| 50) Toluene-d8                | 10.179    | 98    | 437062   | 66.174    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 132.340% |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 149243   | 54.362    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 108.720% |          |
|                               |           |       |          |           |            |          |
| Target Compounds              |           |       |          |           |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.930     | 59    | 148      | Below Cal | #          | 74       |
| 20) Methylene Chloride        | 4.716     | 84    | 37435    | 8.143     | ug/l       | 88       |
| 31) Cyclohexane               | 7.789     | 56    | 3884     | 1.227     | ug/l #     | 11       |
| 36) 1,1-Dichloropropene       | 7.789     | 75    | 14520    | 4.387     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.789     | 117   | 20504    | 4.797     | ug/l #     | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.179    | 43    | 1643     | 1.135     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75    | 76369    | 50.483    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75    | 76369    | 104.018   | ug/l #     | 13       |
| -----                         |           |       |          |           |            |          |

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

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MSVOA\_Y  
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3-RT-15-S

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 17 04:31:47 2023  
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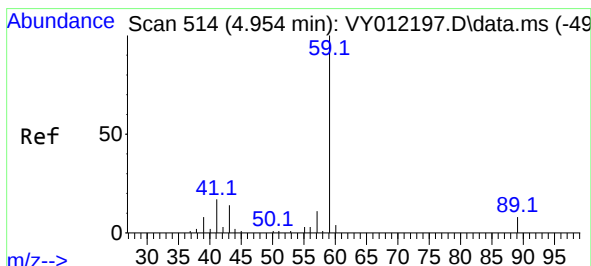
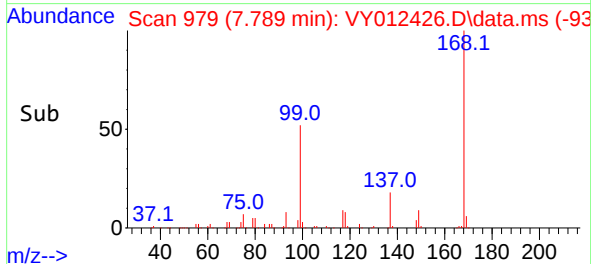
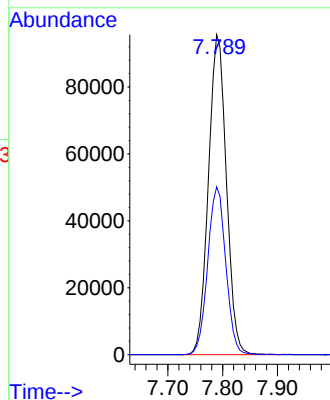
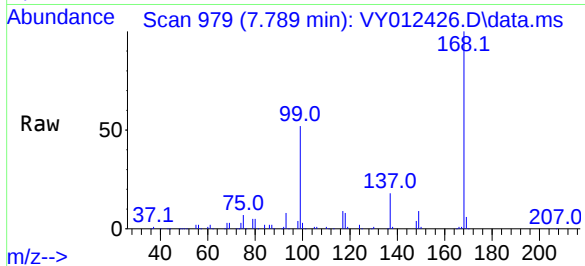




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

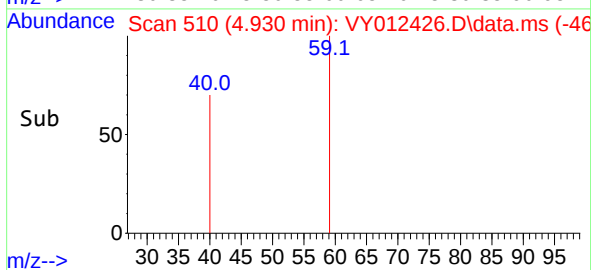
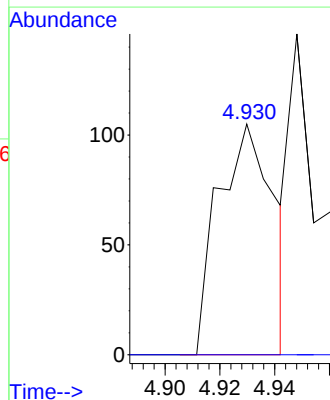
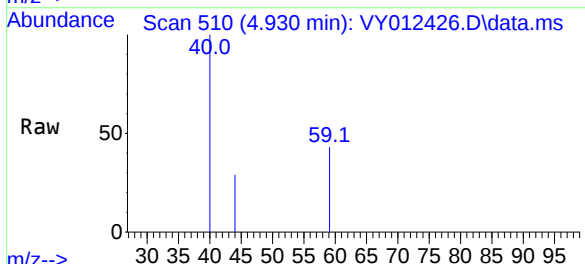
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-RT-15-S

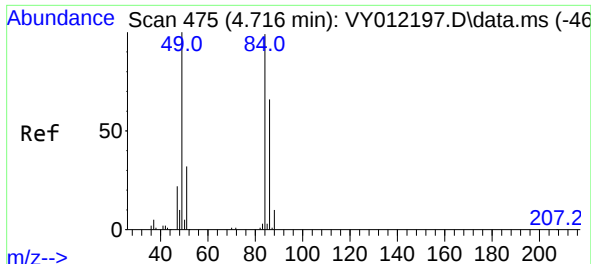
Tgt Ion:168 Resp: 217066  
Ion Ratio Lower Upper  
168 100  
99 52.4 44.0 66.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.930 min Scan# 510  
Delta R.T. -0.018 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

Tgt Ion: 59 Resp: 148  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



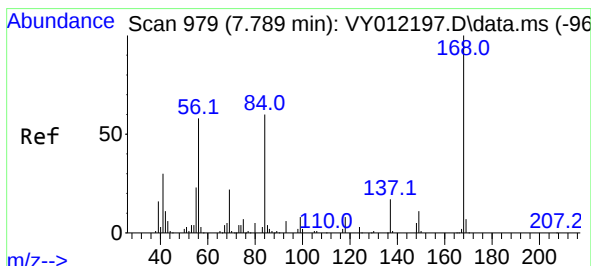
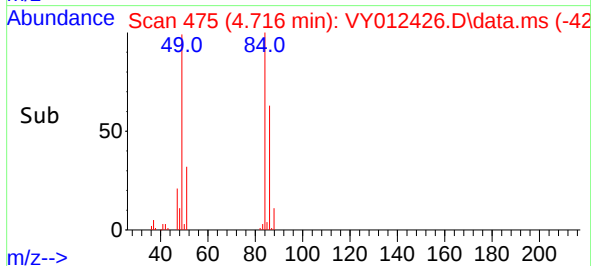
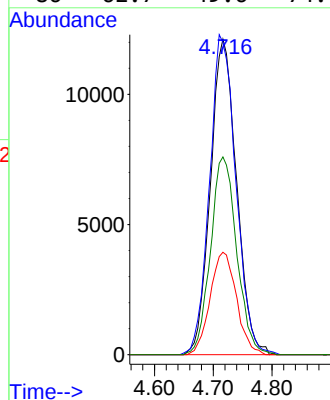
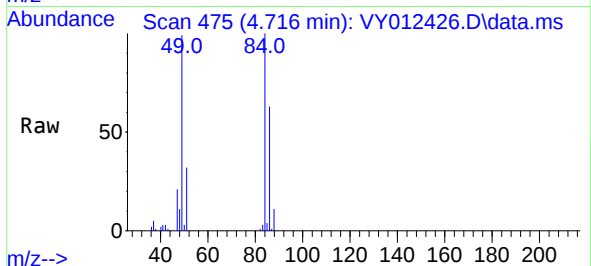


#20  
Methylene Chloride  
Concen: 8.143 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-RT-15-S

Tgt Ion: 84 Resp: 37435

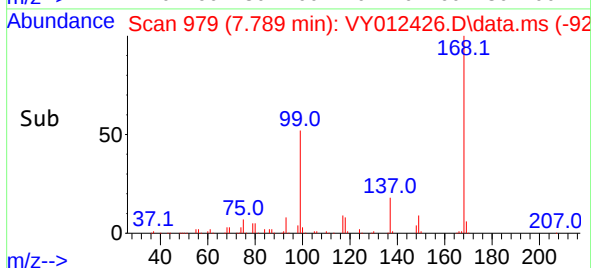
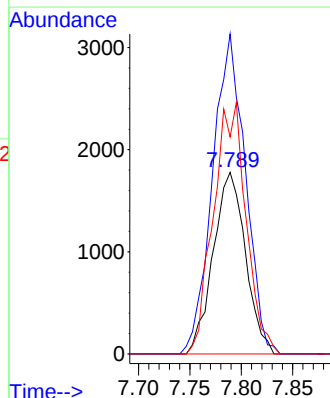
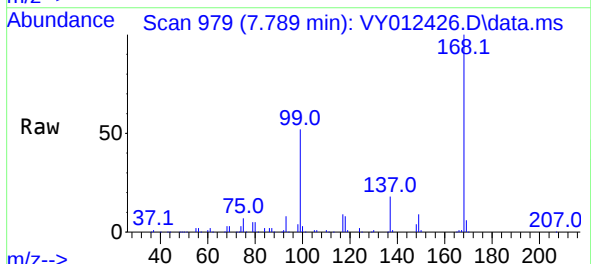
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 99.0  | 95.4  | 143.2 |
| 51  | 32.5  | 29.9  | 44.9  |
| 86  | 62.7  | 49.6  | 74.4  |

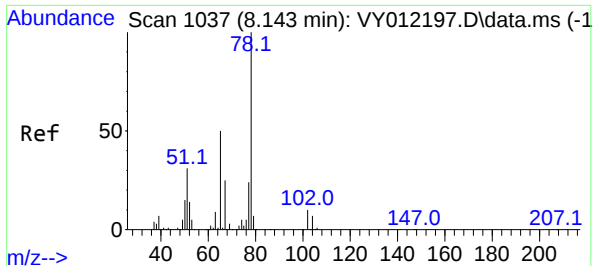


#31  
Cyclohexane  
Concen: 1.227 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. 0.006 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

Tgt Ion: 56 Resp: 3884

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 176.2 | 29.2  | 43.8#  |
| 84  | 119.5 | 72.6  | 108.8# |





#33

1,2-Dichloroethane-d4

Concen: 73.422 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VY012426.D

Acq: 31 Jan 2023 17:32

Instrument :

MSVOA\_Y

ClientSampleId :

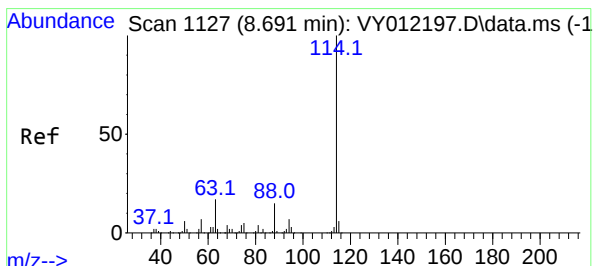
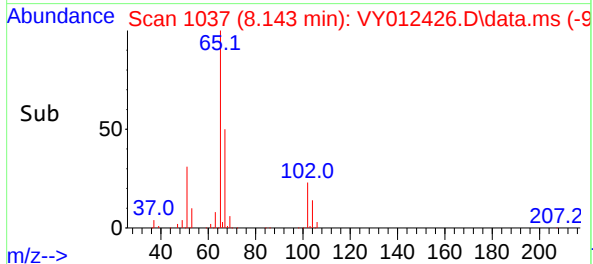
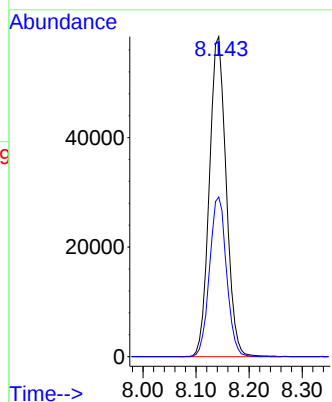
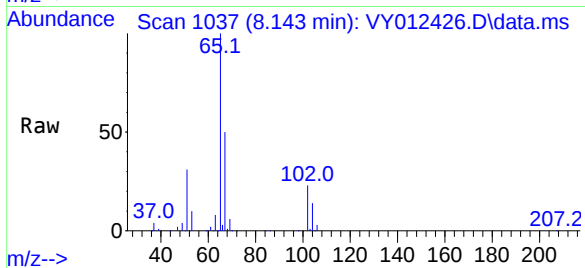
3-RT-15-S

Tgt Ion: 65 Resp: 128789

Ion Ratio Lower Upper

65 100

67 50.2 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY012426.D

Acq: 31 Jan 2023 17:32

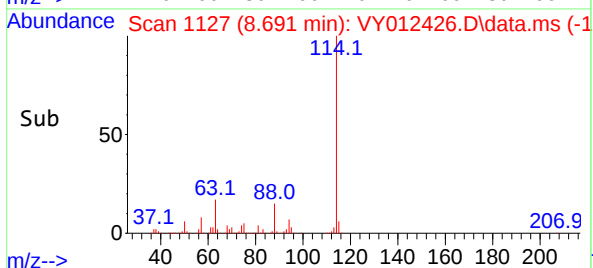
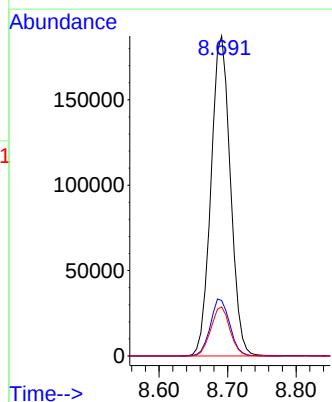
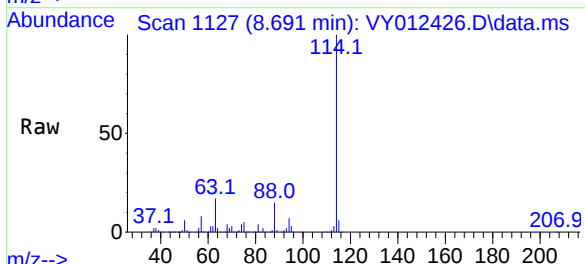
Tgt Ion: 114 Resp: 367795

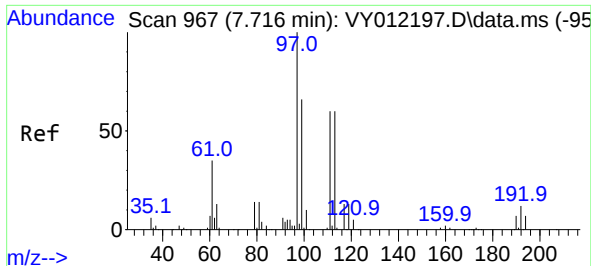
Ion Ratio Lower Upper

114 100

63 17.4 0.0 39.6

88 15.3 0.0 32.2



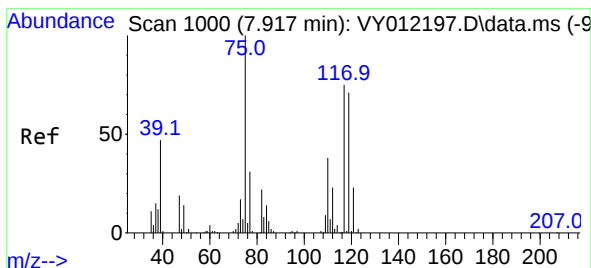
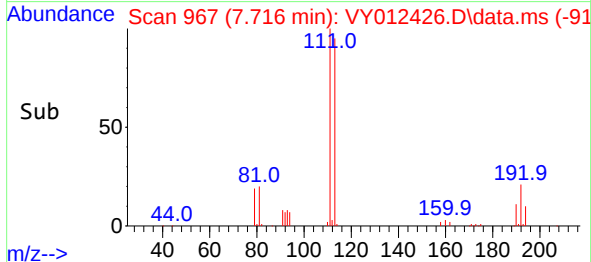
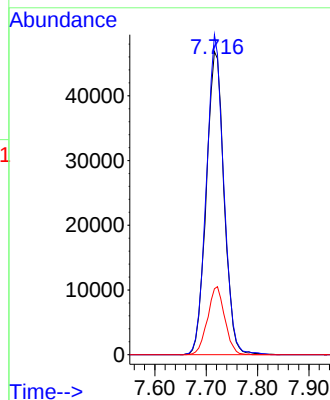
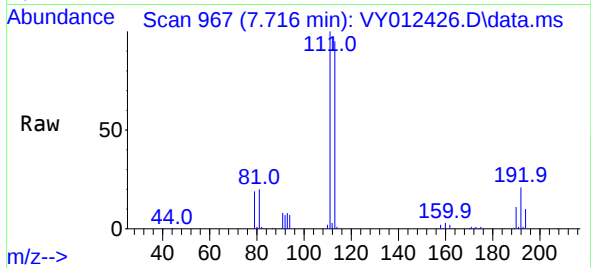


#35  
 Dibromofluoromethane  
 Concen: 57.666 ug/l  
 RT: 7.716 min Scan# 913  
 Delta R.T. -0.000 min  
 Lab File: VY012426.D  
 Acq: 31 Jan 2023 17:32

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 3-RT-15-S

Tgt Ion:113 Resp: 112304

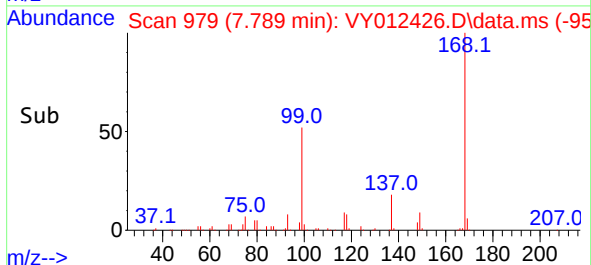
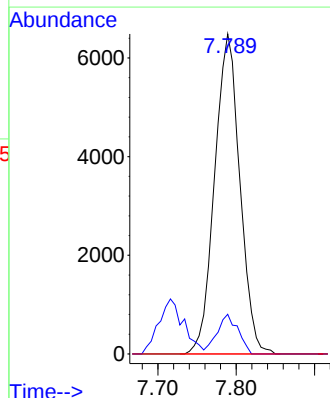
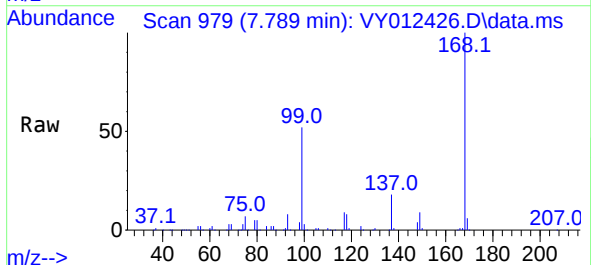
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.8 | 83.0  | 124.4 |
| 192 | 21.8  | 16.0  | 24.0  |

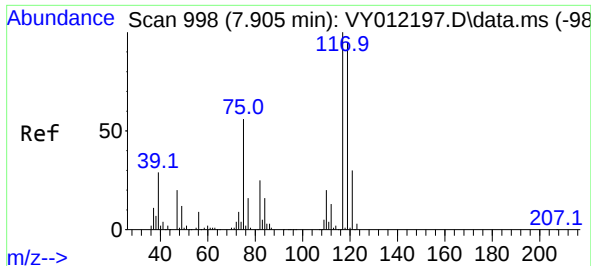


#36  
 1,1-Dichloropropene  
 Concen: 4.387 ug/l  
 RT: 7.789 min Scan# 979  
 Delta R.T. -0.128 min  
 Lab File: VY012426.D  
 Acq: 31 Jan 2023 17:32

Tgt Ion: 75 Resp: 14520

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 10.3  | 18.1  | 54.1# |
| 77  | 0.0   | 25.1  | 37.7# |

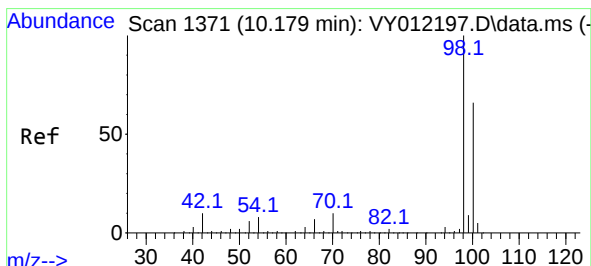
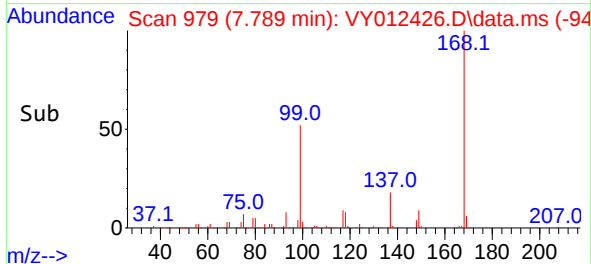
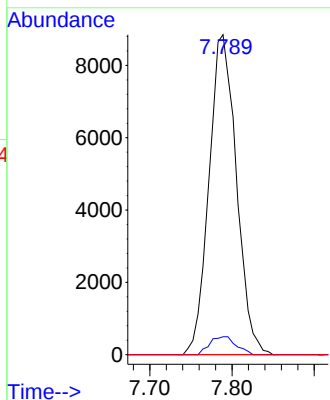
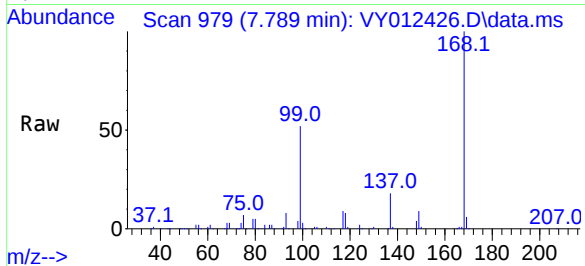




#38  
Carbon Tetrachloride  
Concen: 4.797 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

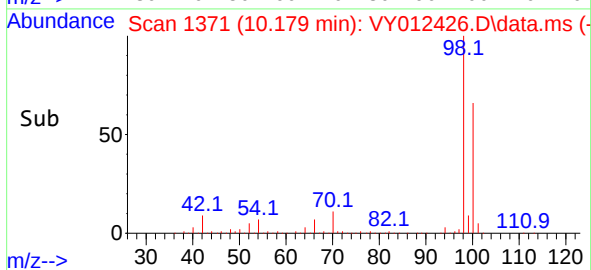
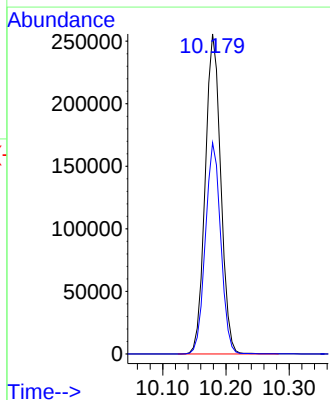
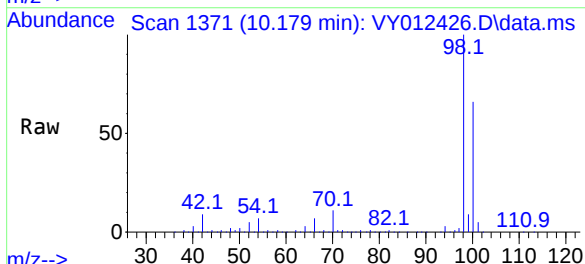
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-RT-15-S

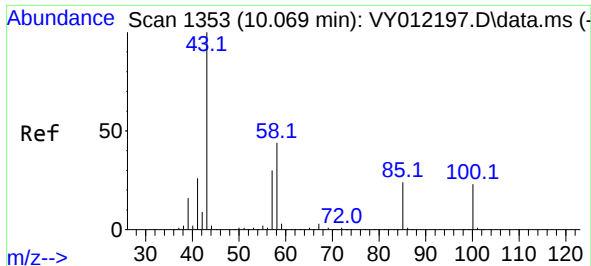
Tgt Ion:117 Resp: 20504  
Ion Ratio Lower Upper  
117 100  
119 5.6 73.8 110.8#  
121 0.0 25.2 37.8#



#50  
Toluene-d8  
Concen: 66.174 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

Tgt Ion: 98 Resp: 437062  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 1.135 ug/l

RT: 10.179 min Scan# 11

Delta R.T. 0.110 min

Lab File: VY012426.D

Acq: 31 Jan 2023 17:32

Instrument :

MSVOA\_Y

ClientSampleId :

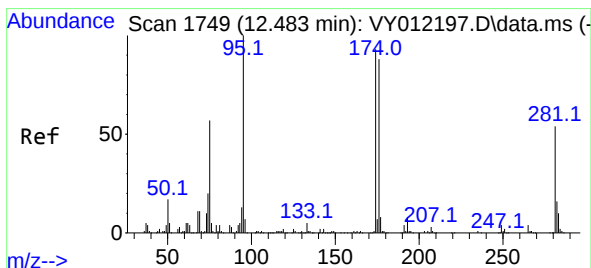
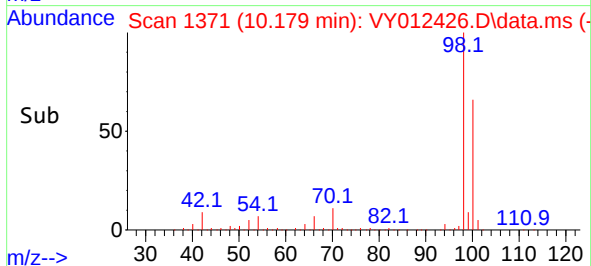
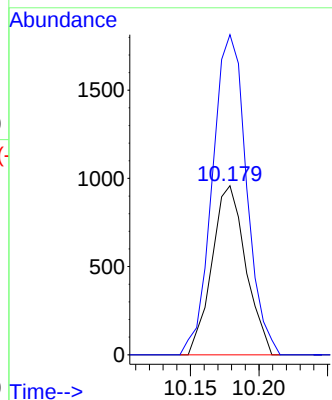
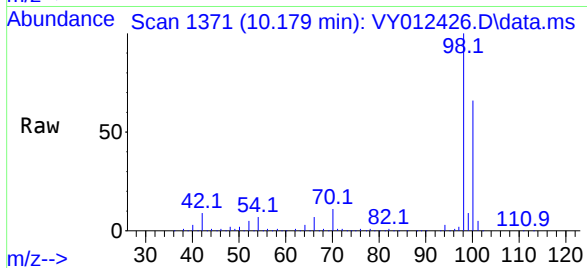
3-RT-15-S

Tgt Ion: 43 Resp: 1643

Ion Ratio Lower Upper

43 100

58 191.5 32.9 49.3#



#62

4-Bromofluorobenzene

Concen: 54.362 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY012426.D

Acq: 31 Jan 2023 17:32

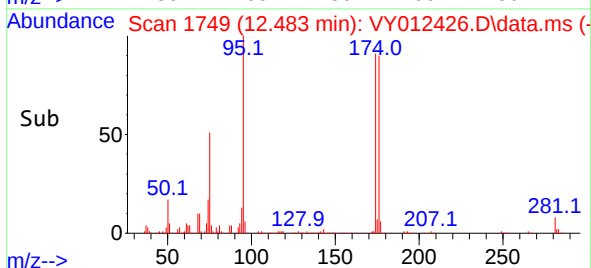
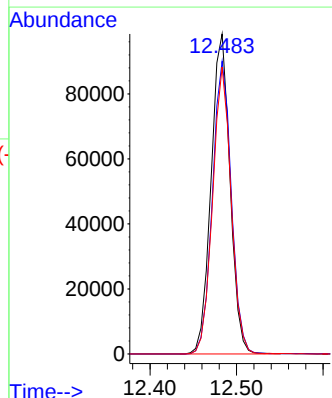
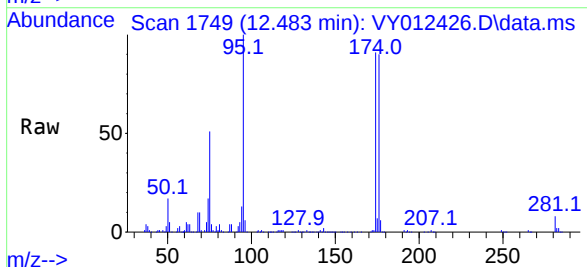
Tgt Ion: 95 Resp: 149243

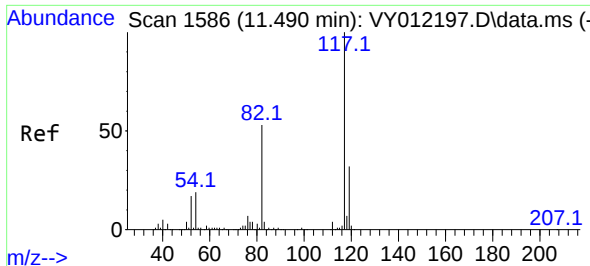
Ion Ratio Lower Upper

95 100

174 91.4 0.0 172.0

176 87.8 0.0 167.6

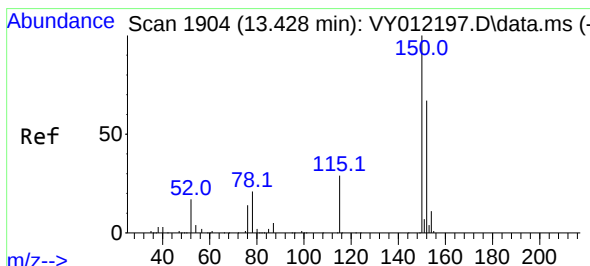
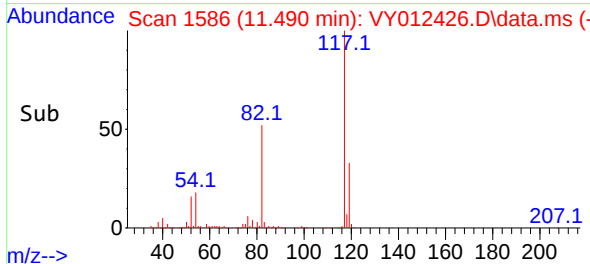
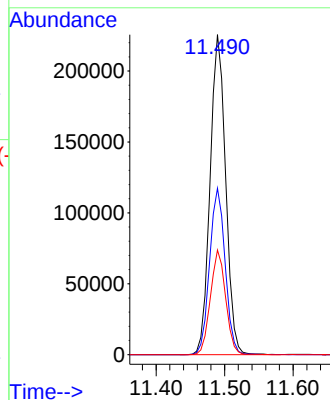
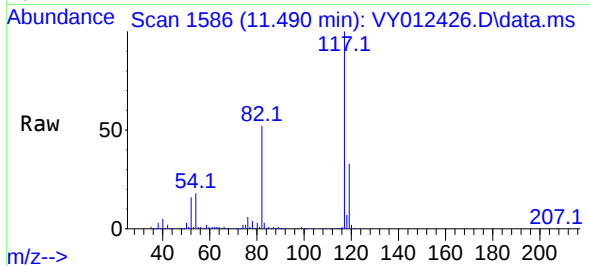




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

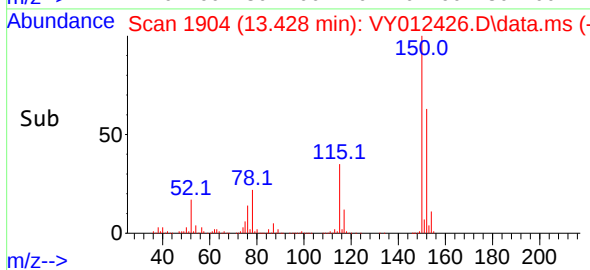
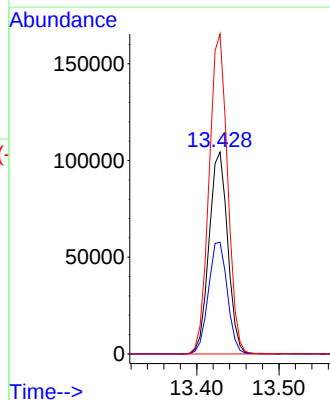
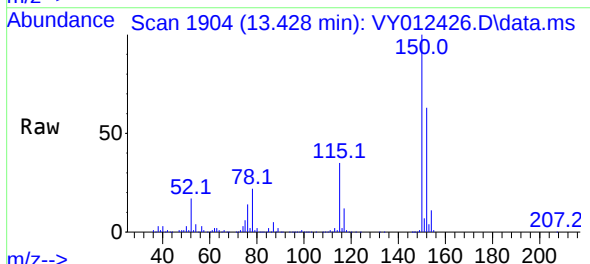
Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-RT-15-S

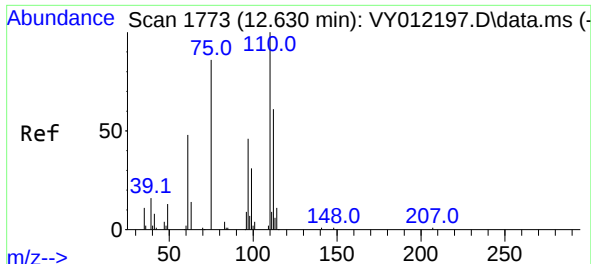
Tgt Ion:117 Resp: 356978  
Ion Ratio Lower Upper  
117 100  
82 52.0 44.8 67.2  
119 32.7 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

Tgt Ion:152 Resp: 164513  
Ion Ratio Lower Upper  
152 100  
115 56.4 29.1 87.3  
150 157.1 0.0 342.6

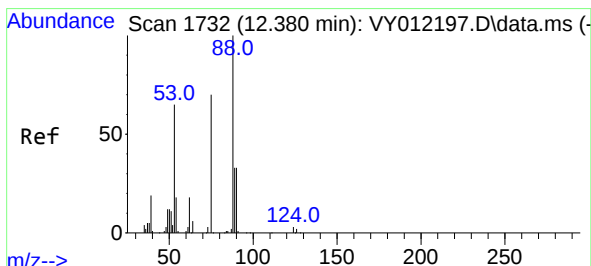
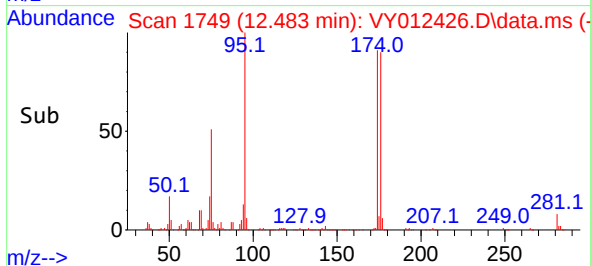
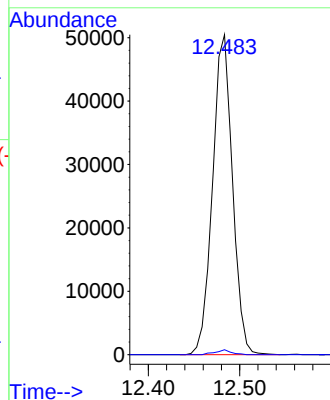
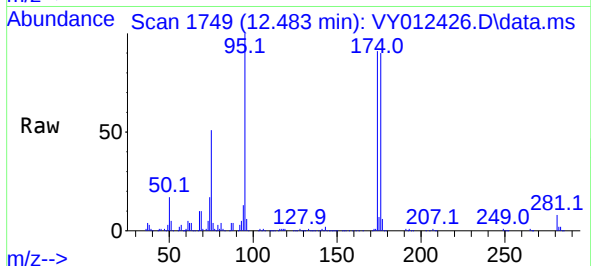




#76  
1,2,3-Trichloropropane  
Concen: 50.483 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.147 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

Instrument :  
MSVOA\_Y  
ClientSampleId :  
3-RT-15-S

Tgt Ion: 75 Resp: 76369  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 104.018 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.109 min  
Lab File: VY012426.D  
Acq: 31 Jan 2023 17:32

Tgt Ion: 75 Resp: 76369  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.5 108.7#  
89 0.0 37.0 55.4#

