

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031723\  
 Data File : VY012991.D  
 Acq On : 17 Mar 2023 16:59  
 Operator : KP/MD  
 Sample : 01954-03  
 Misc : 5.34g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Mar 18 05:47:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 03 01:13:13 2023  
 Response via : Initial Calibration

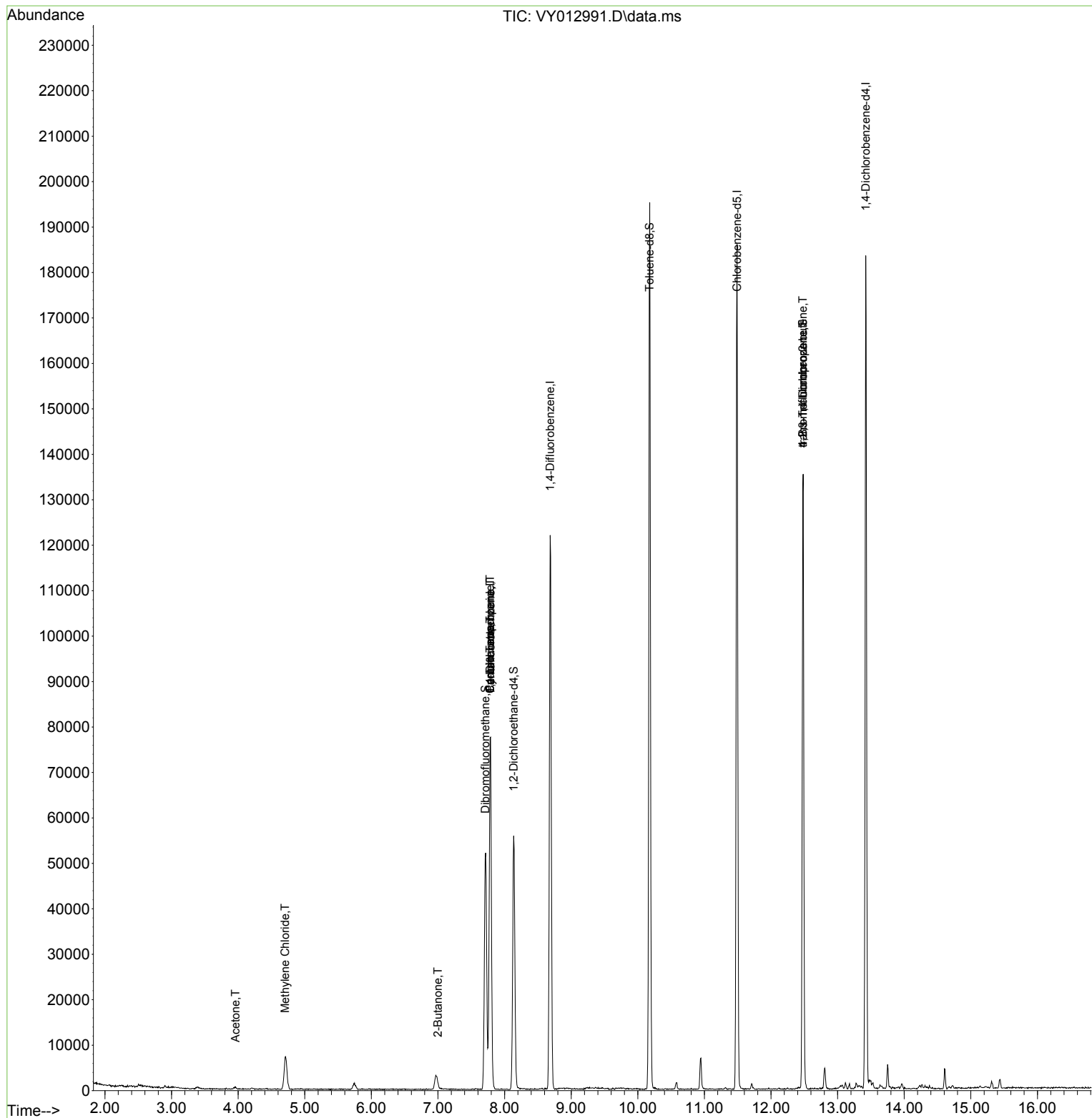
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 60222               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 103230              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 98283               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 46750               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 43564               | 72.858    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 145.720% |           |        |          |
| 35) Dibromofluoromethane      | 7.710          | 113  | 37263               | 59.813    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 119.620% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 124202              | 54.534    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 109.060% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 40223               | 52.324    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 104.640% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.948          | 59   | 76                  | Below Cal | #      | 74       |
| 16) Acetone                   | 3.960          | 43   | 675                 | 2.876     | ug/l # | 70       |
| 20) Methylene Chloride        | 4.704          | 84   | 5366                | 2.375     | ug/l   | 97       |
| 25) 2-Butanone                | 6.996          | 43   | 626                 | 2.154     | ug/l # | 49       |
| 31) Cyclohexane               | 7.783          | 56   | 1257                | 1.098     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 4895                | 4.689     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 5996                | 5.562     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 20946               | 37.519    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 20946               | 77.742    | ug/l # | 13       |
| -----                         |                |      |                     |           |        |          |

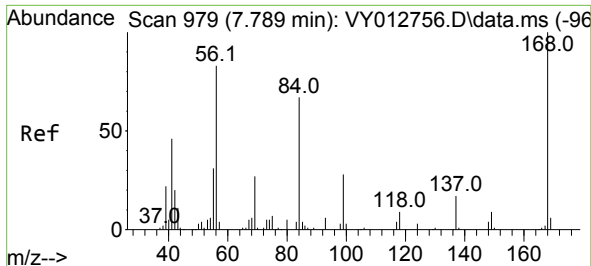
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Mar 03 01:13:13 2023  
Response via : Initial Calibration

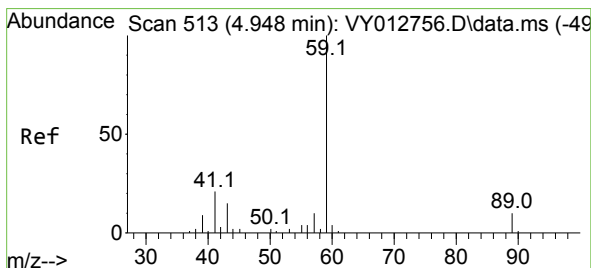
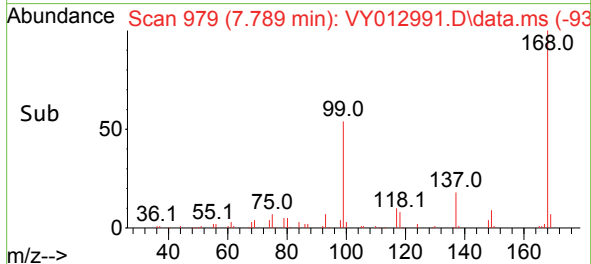
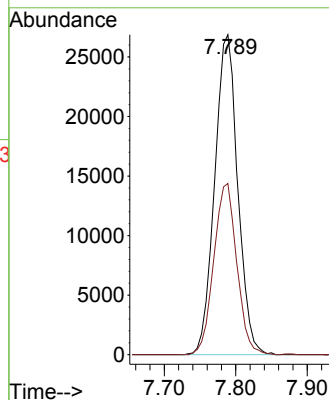
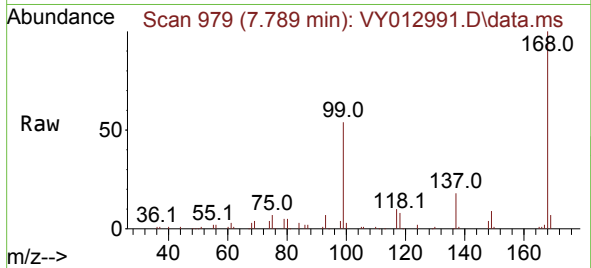




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

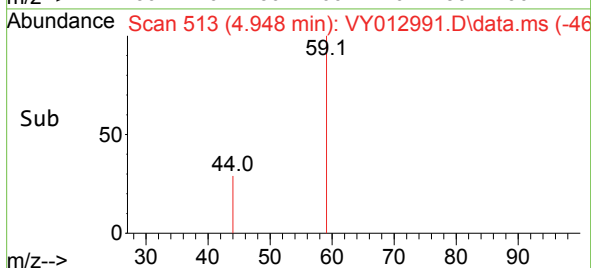
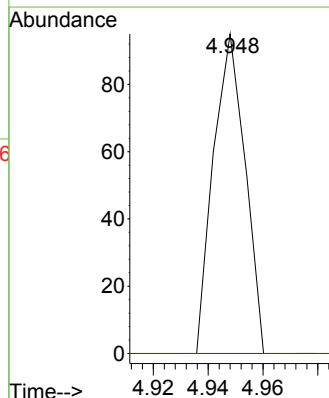
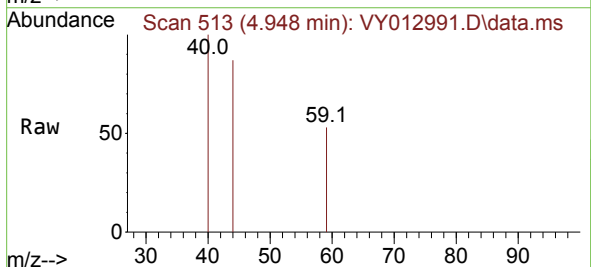
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion:168 Resp: 60222  
Ion Ratio Lower Upper  
168 100  
99 53.5 41.7 62.5



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.948 min Scan# 513  
Delta R.T. -0.000 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

Tgt Ion: 59 Resp: 76  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.7 11.5#

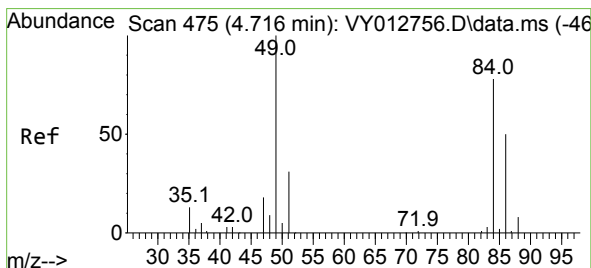
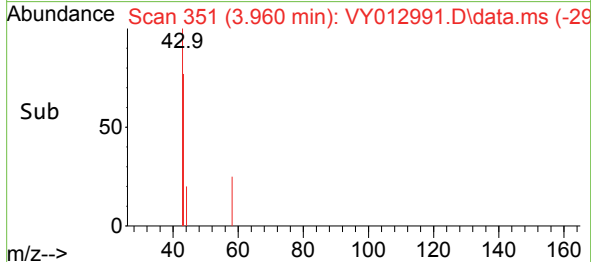
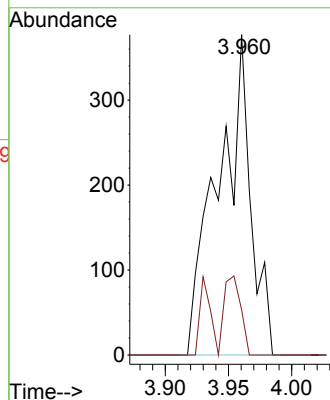
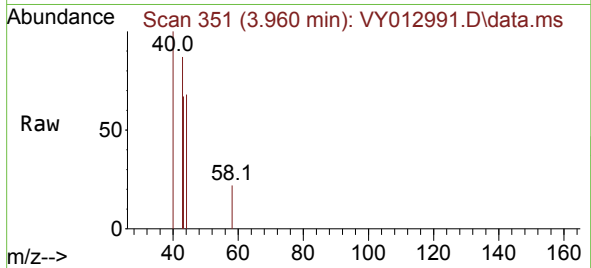




#16  
Acetone  
Concen: 2.876 ug/l  
RT: 3.960 min Scan# 31  
Delta R.T. 0.018 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

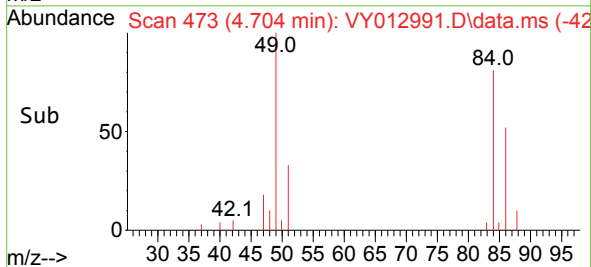
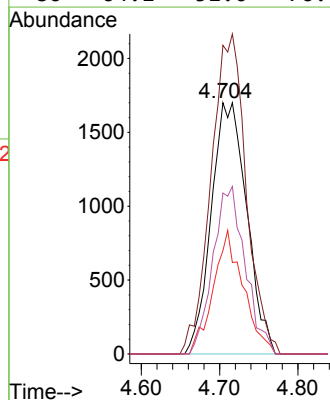
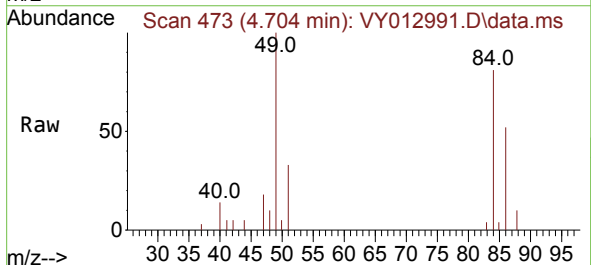
Instrument :  
MSVOA\_Y  
ClientSampleId :

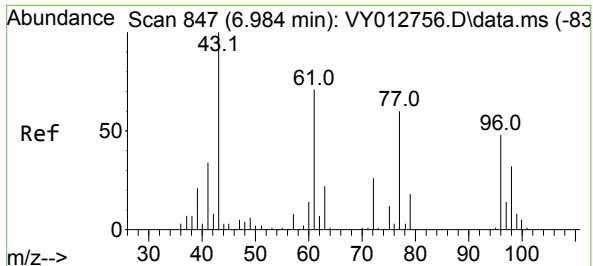
Tgt Ion: 43 Resp: 675  
Ion Ratio Lower Upper  
43 100  
58 14.1 24.2 36.2#



#20  
Methylene Chloride  
Concen: 2.375 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. -0.012 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

Tgt Ion: 84 Resp: 5366  
Ion Ratio Lower Upper  
84 100  
49 122.9 102.6 154.0  
51 41.1 31.9 47.9  
86 64.1 51.0 76.6





#25

2-Butanone

Concen: 2.154 ug/l

RT: 6.996 min Scan# 847

Delta R.T. 0.012 min

Lab File: VY012991.D

Acq: 17 Mar 2023 16:59

Instrument :

MSVOA\_Y

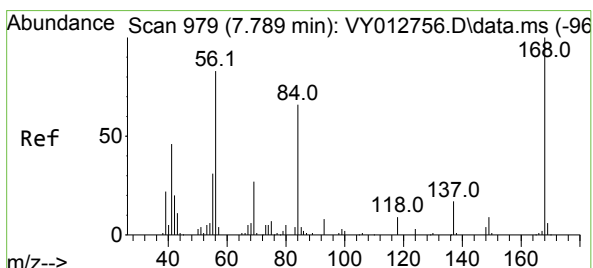
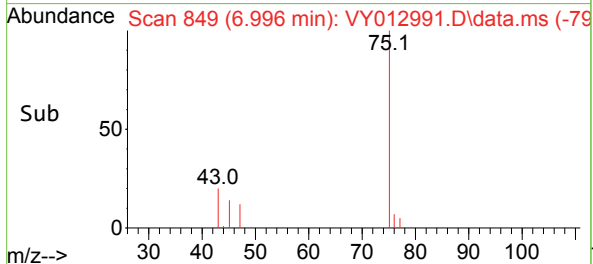
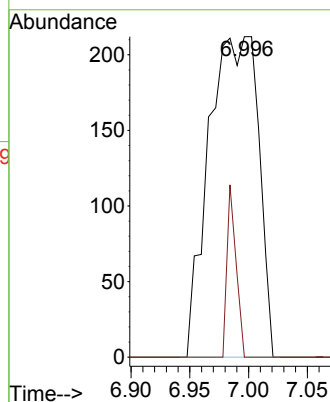
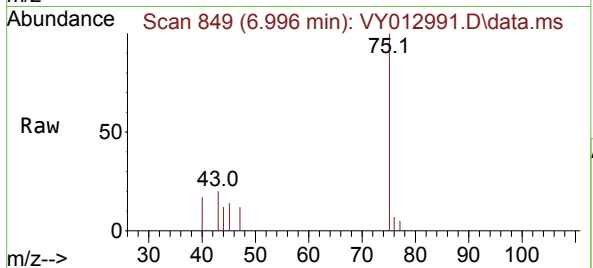
ClientSampleId :

Tgt Ion: 43 Resp: 626

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



#31

Cyclohexane

Concen: 1.098 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.006 min

Lab File: VY012991.D

Acq: 17 Mar 2023 16:59

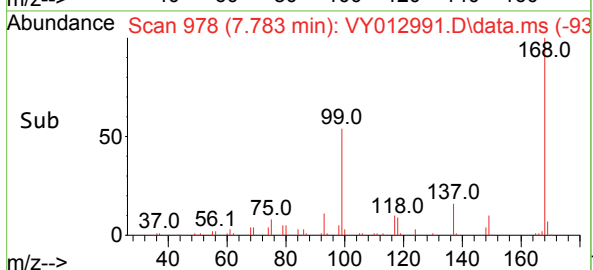
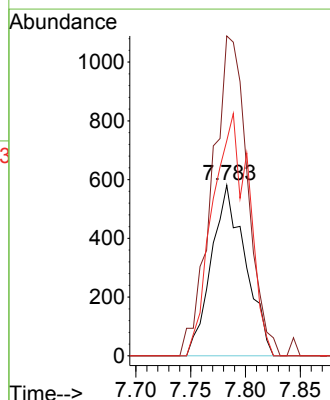
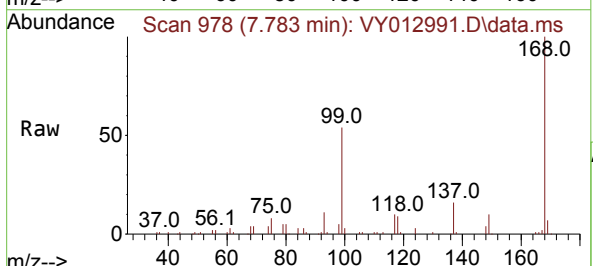
Tgt Ion: 56 Resp: 1257

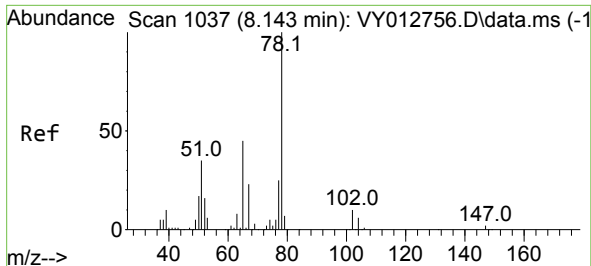
Ion Ratio Lower Upper

56 100

69 187.4 25.7 38.5#

84 126.0 64.3 96.5#

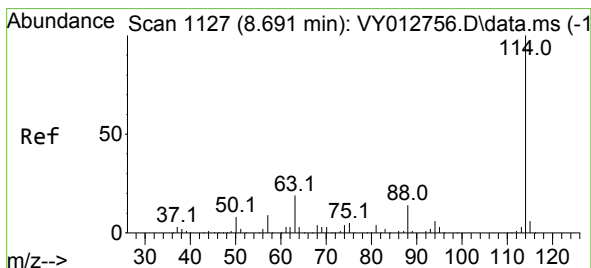
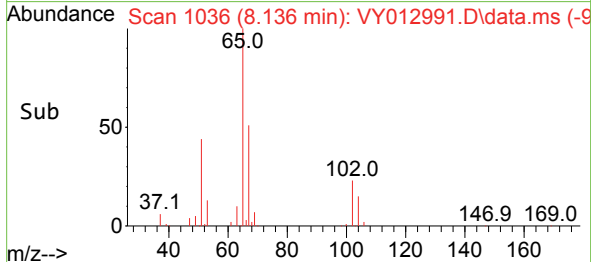
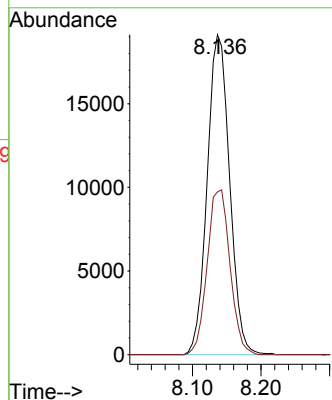
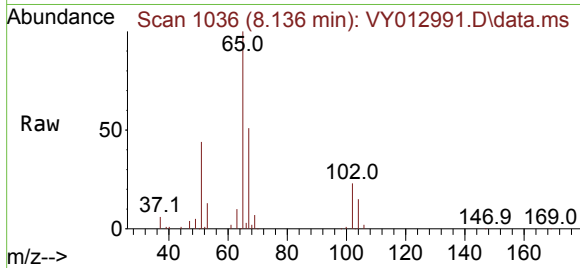




#33  
 1,2-Dichloroethane-d4  
 Concen: 72.858 ug/l  
 RT: 8.136 min Scan# 1036  
 Delta R.T. -0.007 min  
 Lab File: VY012991.D  
 Acq: 17 Mar 2023 16:59

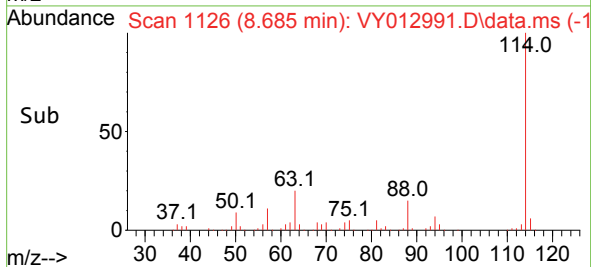
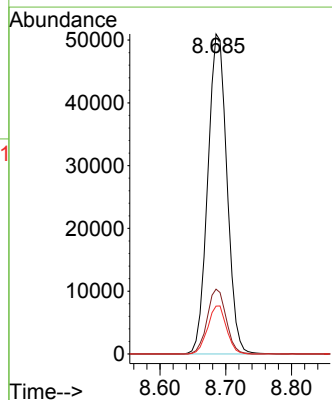
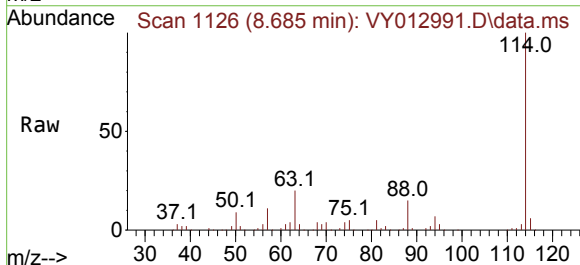
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

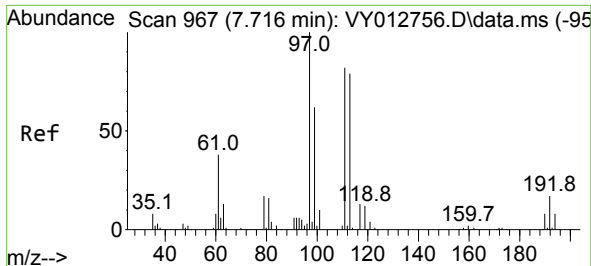
Tgt Ion: 65 Resp: 43564  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.685 min Scan# 1126  
 Delta R.T. -0.006 min  
 Lab File: VY012991.D  
 Acq: 17 Mar 2023 16:59

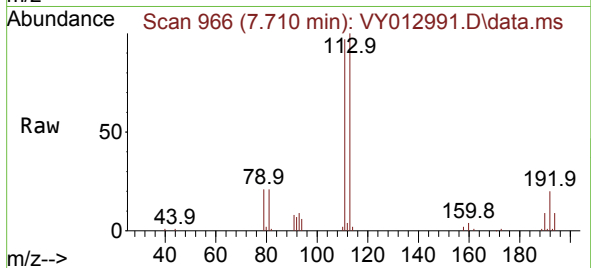
Tgt Ion:114 Resp: 103230  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 37.4  
 88 14.9 0.0 28.6



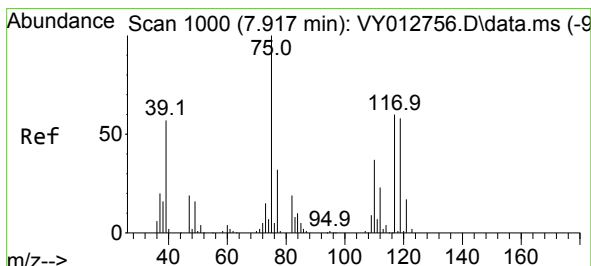
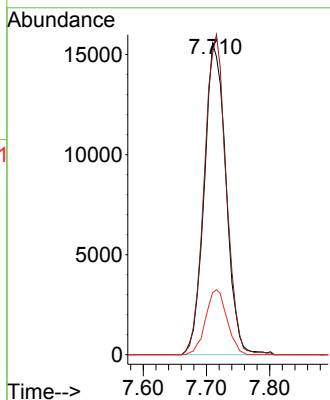
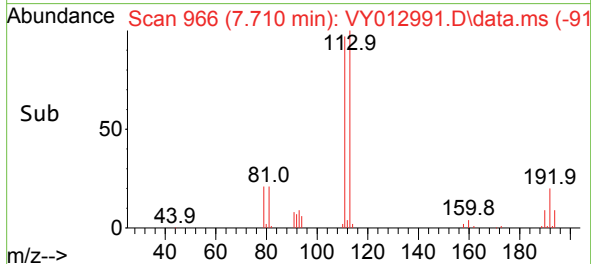


#35  
Dibromofluoromethane  
Concen: 59.813 ug/l  
RT: 7.710 min Scan# 910  
Delta R.T. -0.006 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

Instrument :  
MSVOA\_Y  
ClientSampleId :

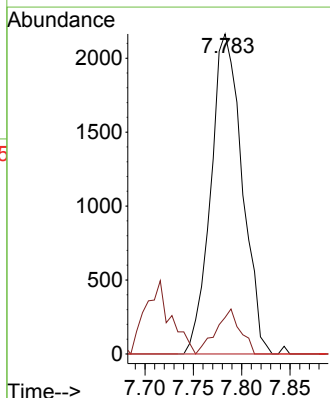
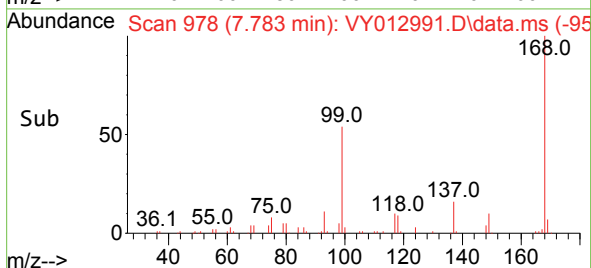
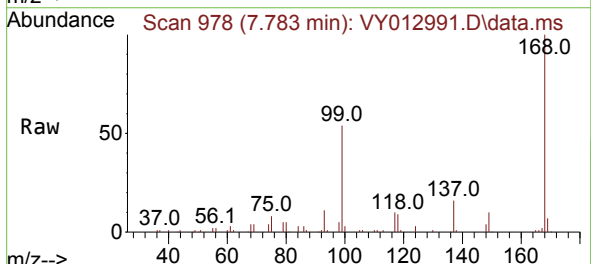


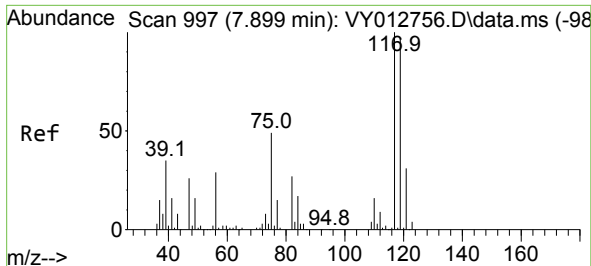
Tgt Ion:113 Resp: 37263  
Ion Ratio Lower Upper  
113 100  
111 103.1 82.2 123.2  
192 20.5 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 4.689 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.134 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

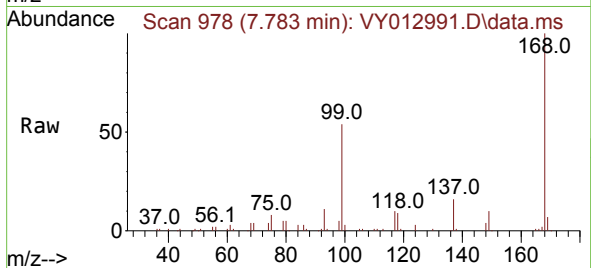
Tgt Ion: 75 Resp: 4895  
Ion Ratio Lower Upper  
75 100  
110 10.8 17.8 53.3#  
77 0.0 25.0 37.4#



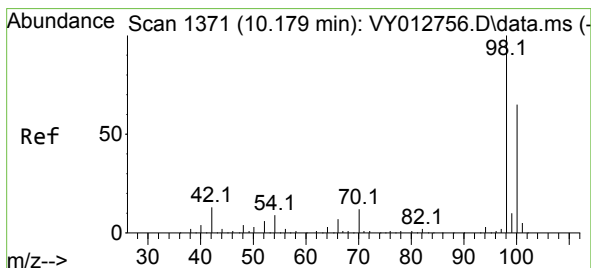
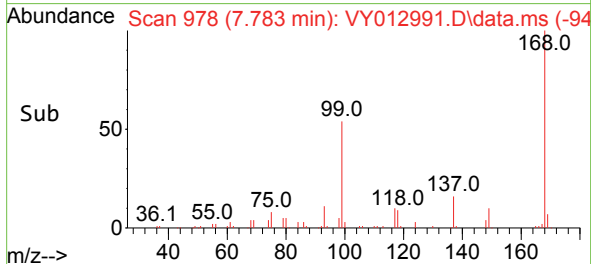
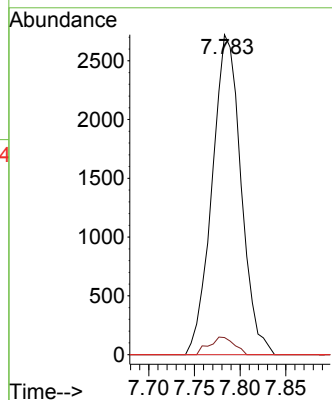


#38  
Carbon Tetrachloride  
Concen: 5.562 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

Instrument :  
MSVOA\_Y  
ClientSampleId :

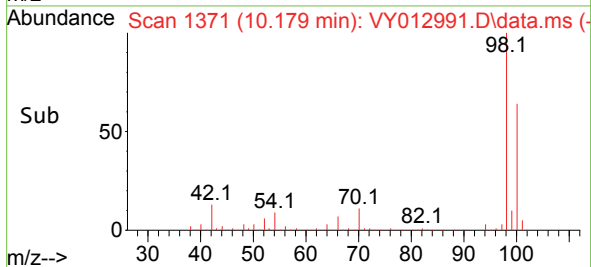
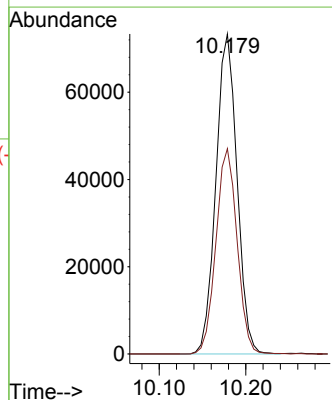
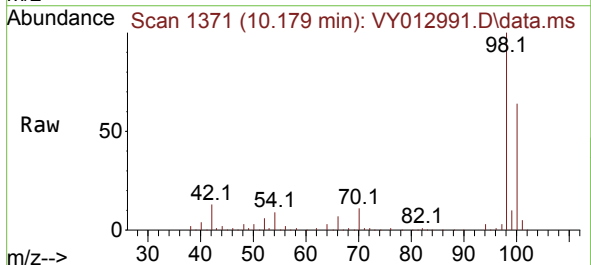


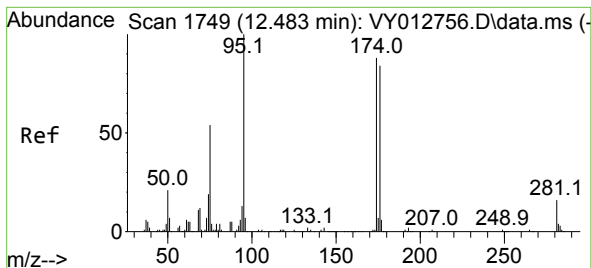
Tgt Ion:117 Resp: 5996  
Ion Ratio Lower Upper  
117 100  
119 5.3 77.2 115.8#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 54.534 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

Tgt Ion: 98 Resp: 124202  
Ion Ratio Lower Upper  
98 100  
100 64.3 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 52.324 ug/l

RT: 12.477 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY012991.D

Acq: 17 Mar 2023 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

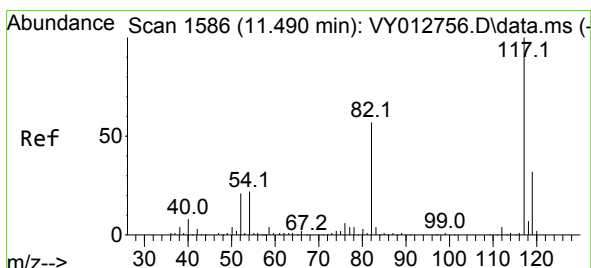
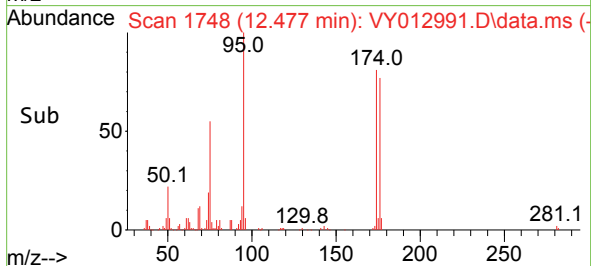
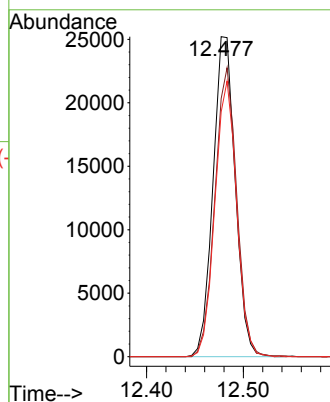
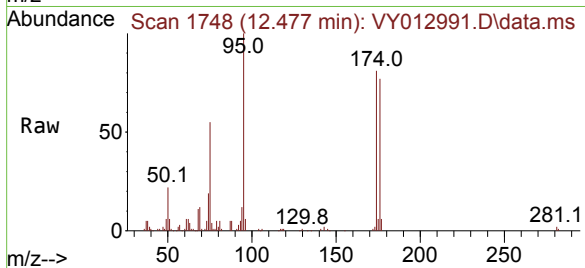
Tgt Ion: 95 Resp: 40223

Ion Ratio Lower Upper

95 100

174 89.1 0.0 176.6

176 84.2 0.0 170.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. -0.000 min

Lab File: VY012991.D

Acq: 17 Mar 2023 16:59

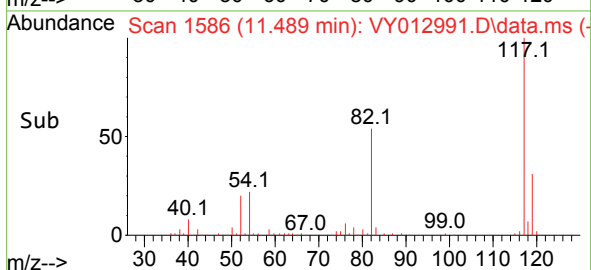
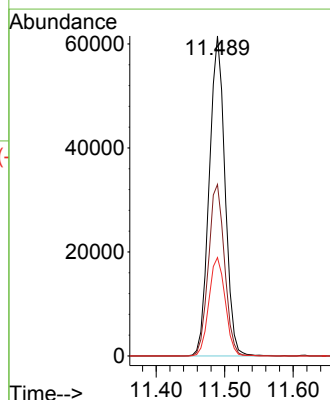
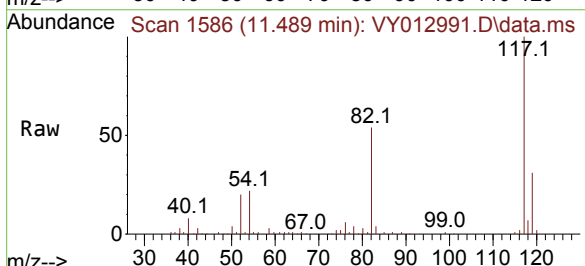
Tgt Ion: 117 Resp: 98283

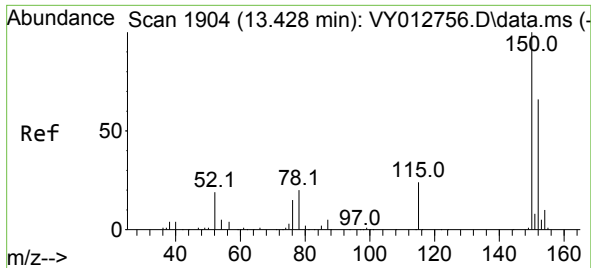
Ion Ratio Lower Upper

117 100

82 53.6 45.4 68.0

119 30.8 25.6 38.4

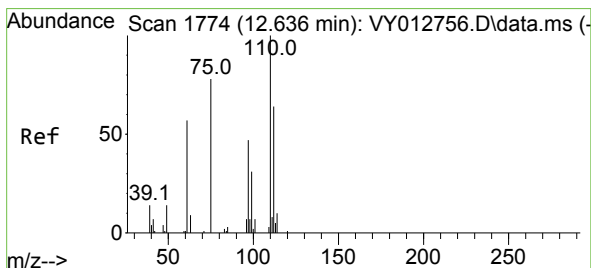
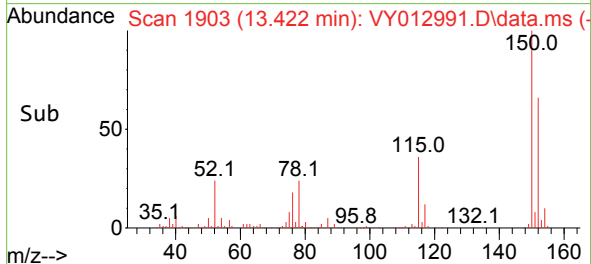
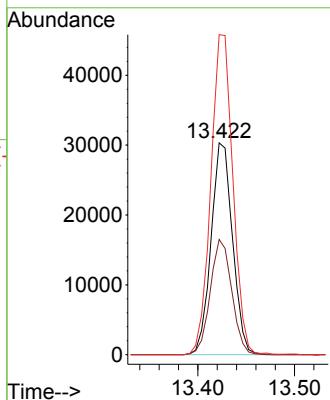
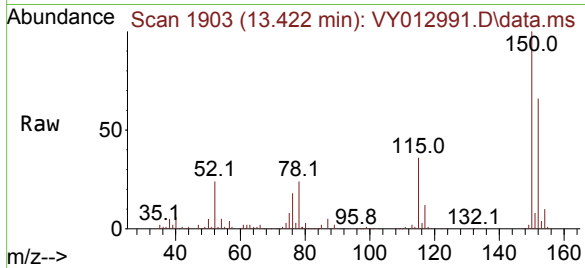




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1904  
 Delta R.T. -0.006 min  
 Lab File: VY012991.D  
 Acq: 17 Mar 2023 16:59

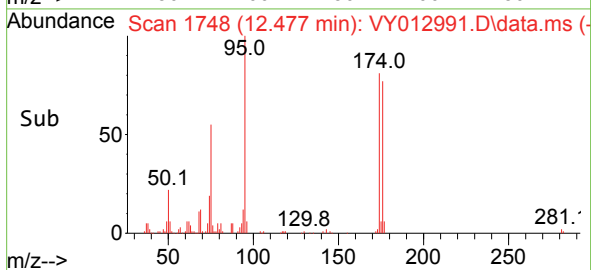
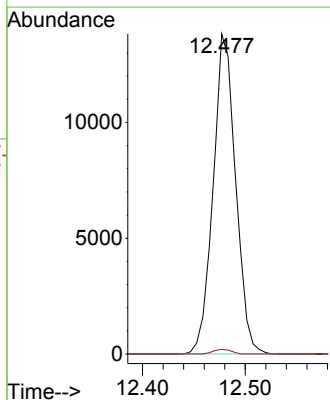
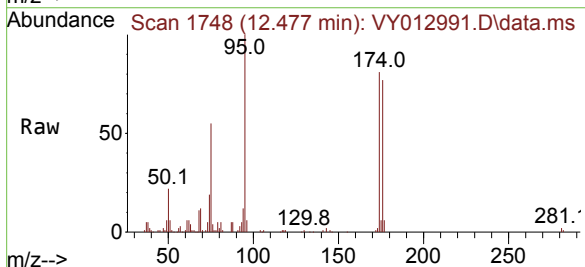
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

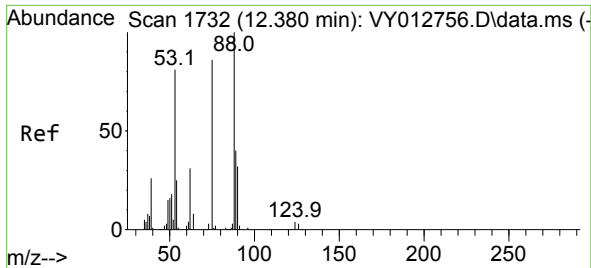
Tgt Ion:152 Resp: 46750  
 Ion Ratio Lower Upper  
 152 100  
 115 54.5 27.1 81.3  
 150 155.2 0.0 347.8



#76  
 1,2,3-Trichloropropane  
 Concen: 37.519 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.159 min  
 Lab File: VY012991.D  
 Acq: 17 Mar 2023 16:59

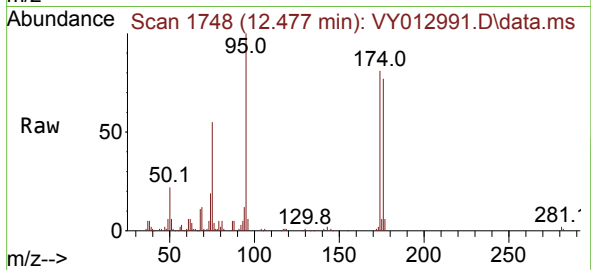
Tgt Ion: 75 Resp: 20946  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.742 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.097 min  
Lab File: VY012991.D  
Acq: 17 Mar 2023 16:59

Instrument :  
MSVOA\_Y  
ClientSampleId :



| Tgt Ion: | 75    | Resp: | 20946  |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.2   | 73.4  | 110.0# |
| 89       | 0.0   | 36.6  | 55.0#  |

