

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042723\  
 Data File : VY013510.D  
 Acq On : 27 Apr 2023 22:21  
 Operator : KP/MD  
 Sample : 02502-03  
 Misc : 5.64g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 BU-511-VOC-01

Quant Time: Apr 28 01:36:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

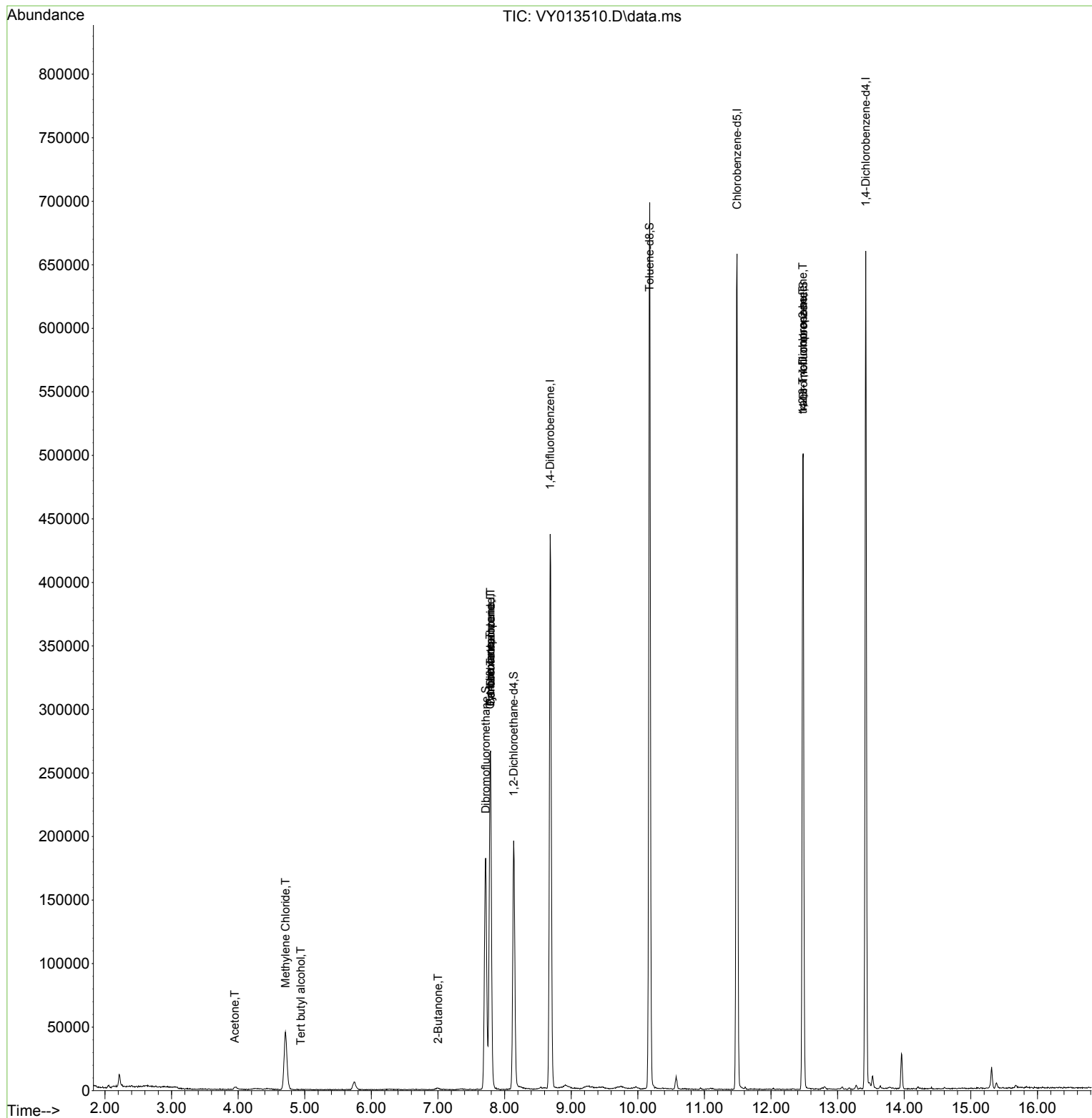
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 209412              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 361156              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 355372              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 162322              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 151952              | 66.192 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 132.380% |        |        |          |
| 35) Dibromofluoromethane      | 7.715          | 113  | 125903              | 55.427 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 110.860% |        |        |          |
| 50) Toluene-d8                | 10.178         | 98   | 443972              | 54.942 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 109.880% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 144790              | 53.150 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 106.300% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 11) Tert butyl alcohol        | 4.942          | 59   | 232                 | 1.545  | ug/l # | 89       |
| 16) Acetone                   | 3.948          | 43   | 1618                | 1.790  | ug/l   | 93       |
| 20) Methylene Chloride        | 4.710          | 84   | 31958               | 3.811  | ug/l # | 82       |
| 25) 2-Butanone                | 7.002          | 43   | 1701                | 1.484  | ug/l # | 69       |
| 31) Cyclohexane               | 7.783          | 56   | 5080                | 1.236  | ug/l # | 24       |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 16571               | 4.396  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 20008               | 5.064  | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 76661               | 35.019 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 76661               | 71.634 | ug/l # | 13       |
| -----                         |                |      |                     |        |        |          |

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

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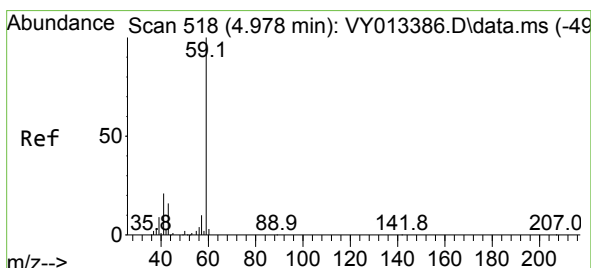
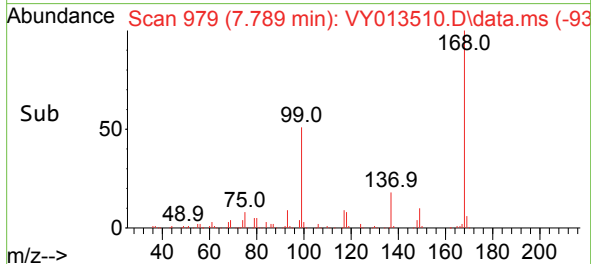
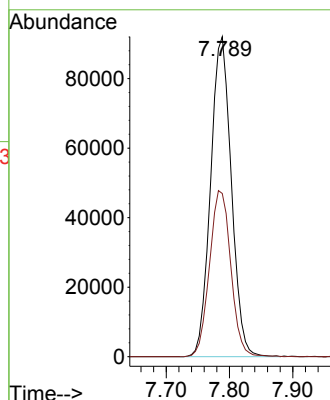
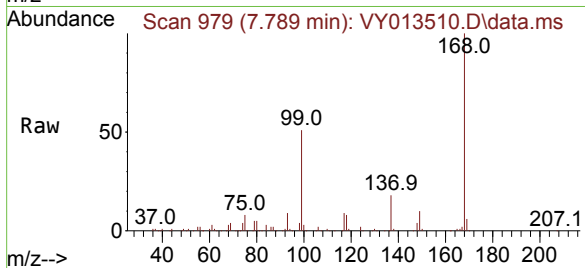




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

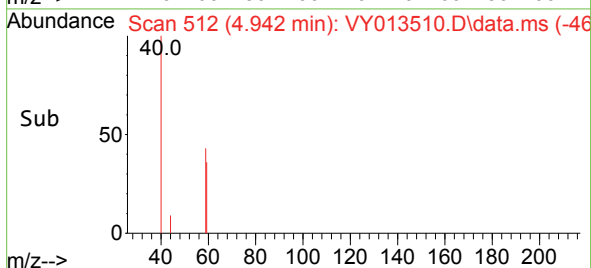
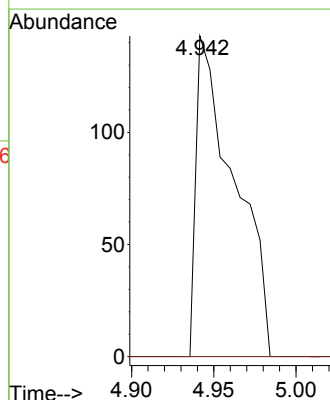
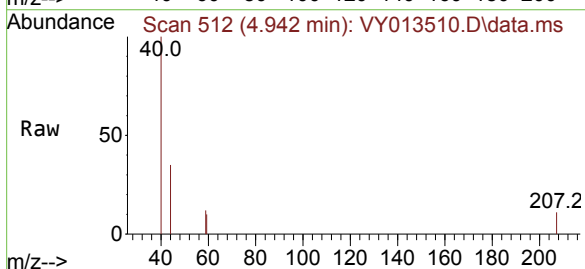
Instrument :  
MSVOA\_Y  
ClientSampleId :  
BU-511-VOC-01

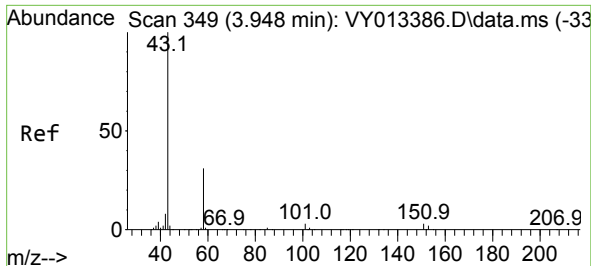
Tgt Ion:168 Resp: 209412  
Ion Ratio Lower Upper  
168 100  
99 51.0 41.8 62.6



#11  
Tert butyl alcohol  
Concen: 1.545 ug/l  
RT: 4.942 min Scan# 512  
Delta R.T. -0.036 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

Tgt Ion: 59 Resp: 232  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#





#16

Acetone

Concen: 1.790 ug/l

RT: 3.948 min Scan# 349

Delta R.T. -0.000 min

Lab File: VY013510.D

Acq: 27 Apr 2023 22:21

Instrument :

MSVOA\_Y

ClientSampleId :

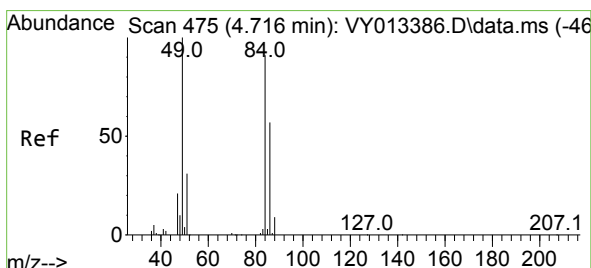
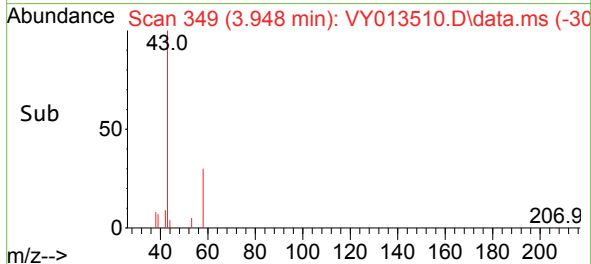
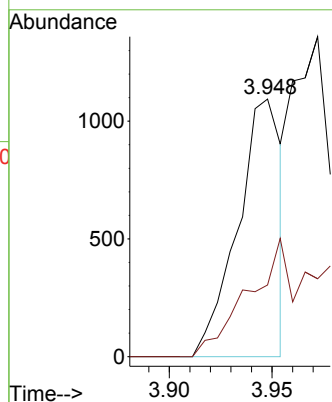
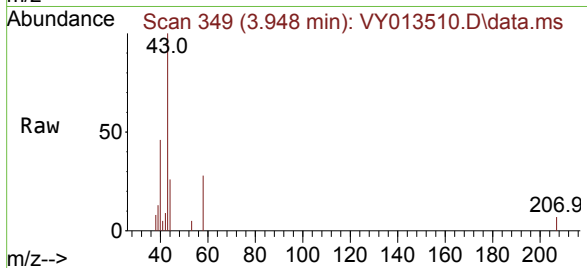
BU-511-VOC-01

Tgt Ion: 43 Resp: 1618

Ion Ratio Lower Upper

43 100

58 27.8 25.4 38.0



#20

Methylene Chloride

Concen: 3.811 ug/l

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY013510.D

Acq: 27 Apr 2023 22:21

Tgt Ion: 84 Resp: 31958

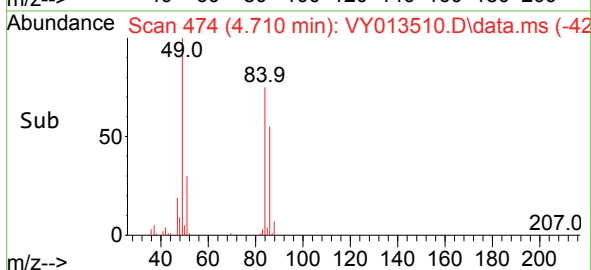
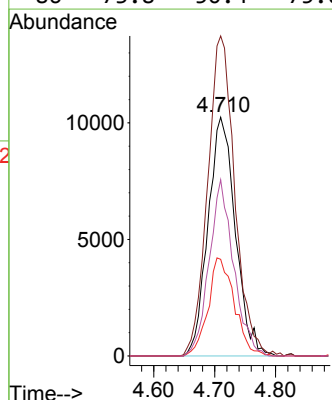
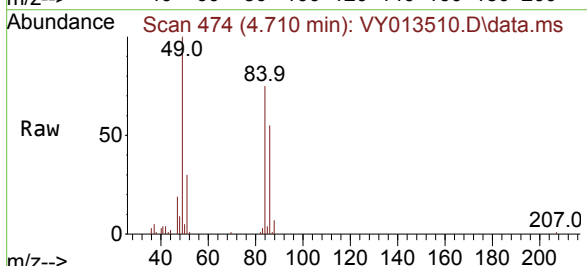
Ion Ratio Lower Upper

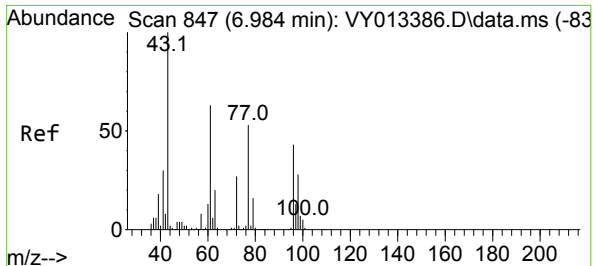
84 100

49 134.0 88.0 132.0#

51 40.5 27.4 41.0

86 73.8 50.4 75.6





#25

2-Butanone

Concen: 1.484 ug/l

RT: 7.002 min Scan# 8

Delta R.T. 0.018 min

Lab File: VY013510.D

Acq: 27 Apr 2023 22:21

Instrument :

MSVOA\_Y

ClientSampleId :

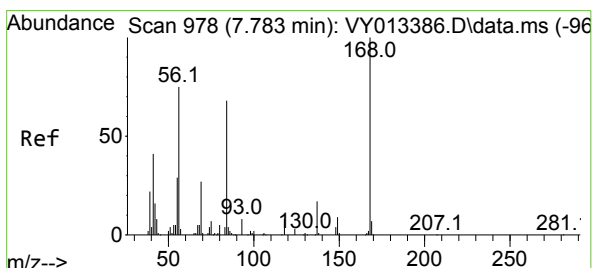
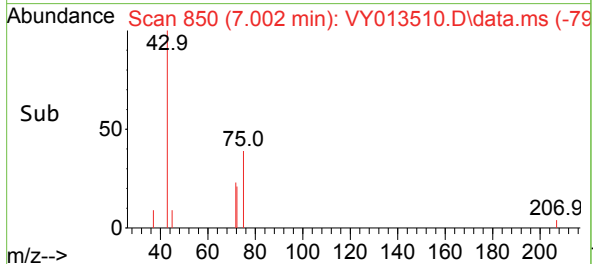
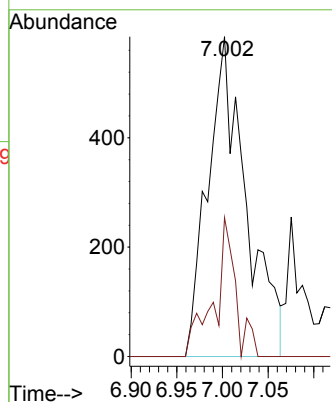
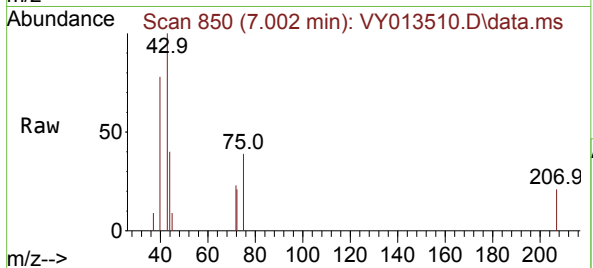
BU-511-VOC-01

Tgt Ion: 43 Resp: 1701

Ion Ratio Lower Upper

43 100

72 43.4 21.9 32.9#



#31

Cyclohexane

Concen: 1.236 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.000 min

Lab File: VY013510.D

Acq: 27 Apr 2023 22:21

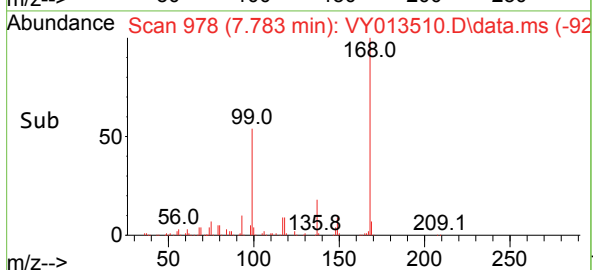
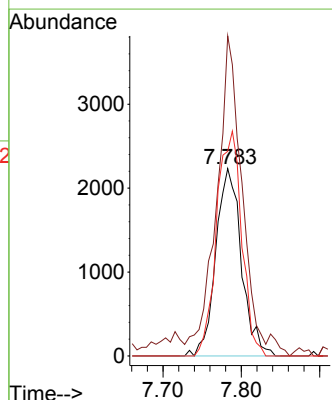
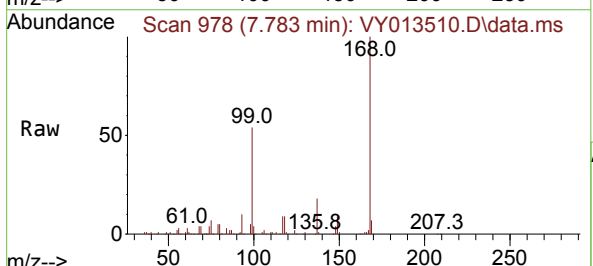
Tgt Ion: 56 Resp: 5080

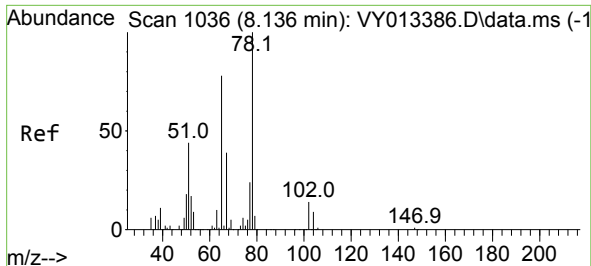
Ion Ratio Lower Upper

56 100

69 166.5 29.2 43.8#

84 109.2 73.0 109.6





#33

1,2-Dichloroethane-d4

Concen: 66.192 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY013510.D

Acq: 27 Apr 2023 22:21

Instrument :

MSVOA\_Y

ClientSampleId :

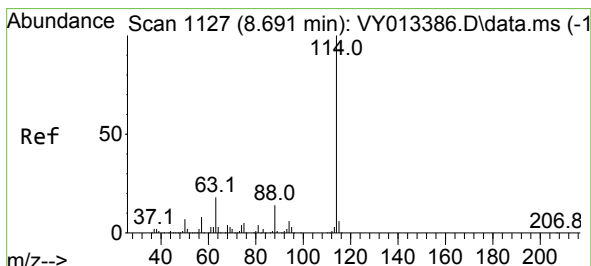
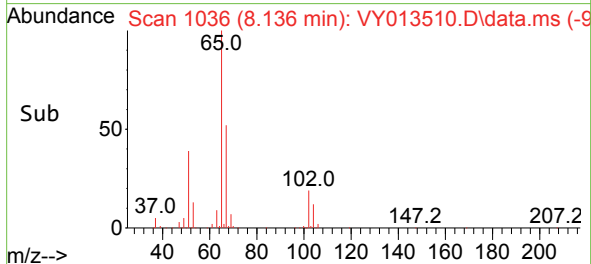
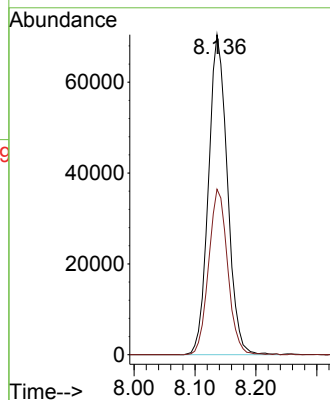
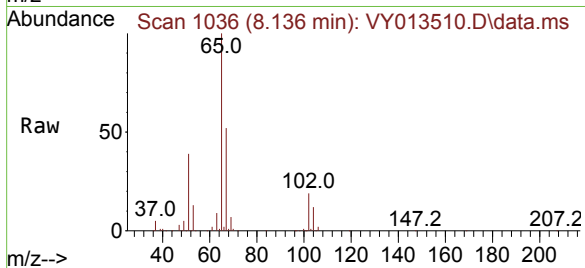
BU-511-VOC-01

Tgt Ion: 65 Resp: 151952

Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013510.D

Acq: 27 Apr 2023 22:21

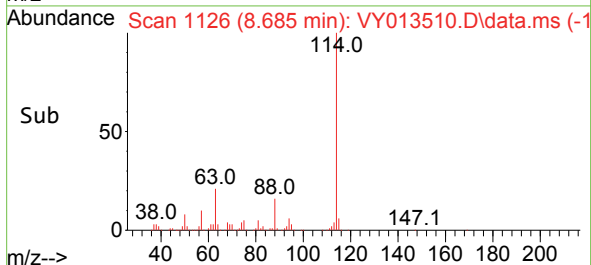
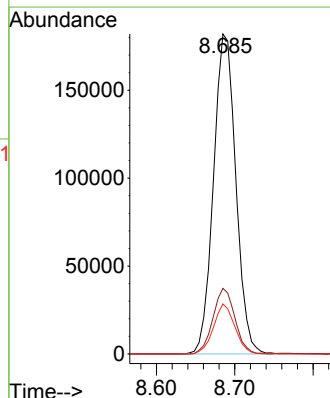
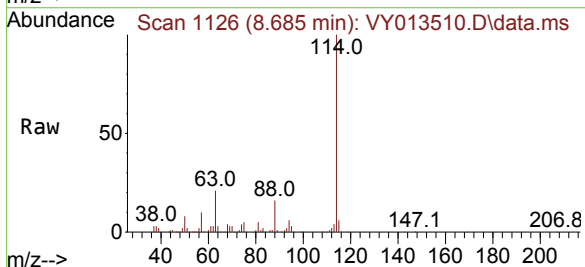
Tgt Ion: 114 Resp: 361156

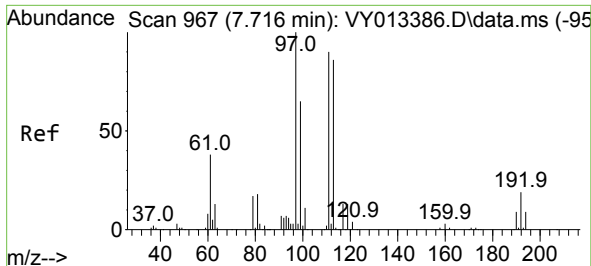
Ion Ratio Lower Upper

114 100

63 20.5 0.0 36.6

88 15.6 0.0 28.8

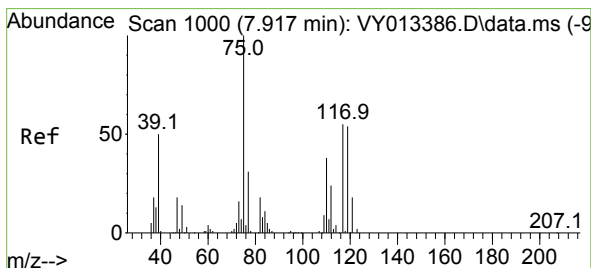
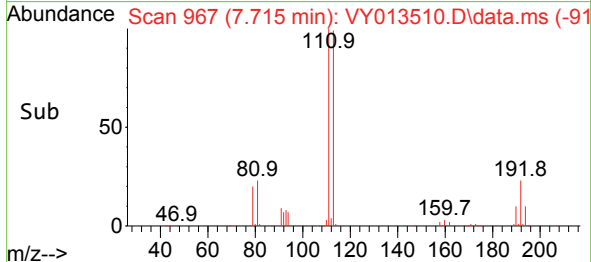
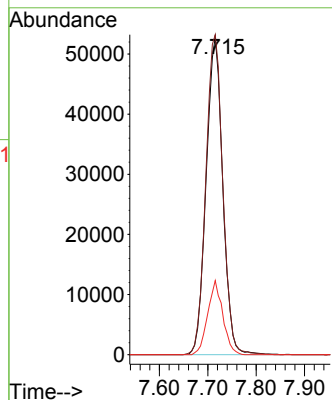
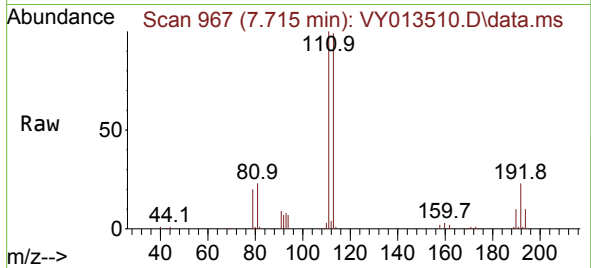




#35  
Dibromofluoromethane  
Concen: 55.427 ug/l  
RT: 7.715 min Scan# 910  
Delta R.T. -0.001 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

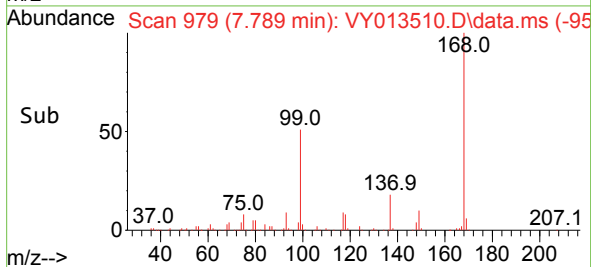
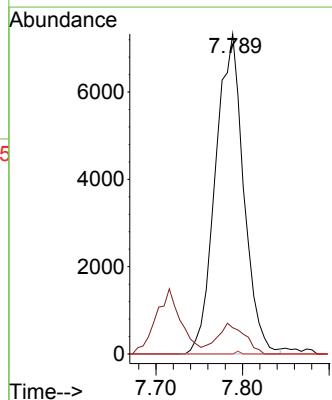
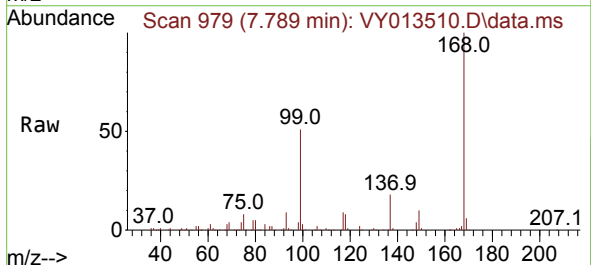
Instrument :  
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BU-511-VOC-01

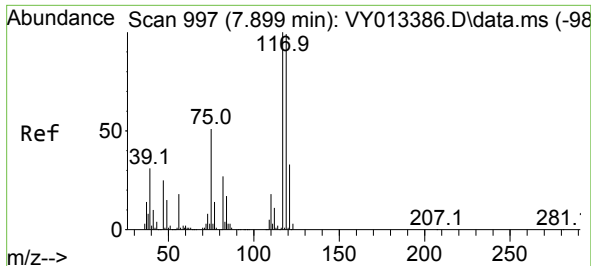
Tgt Ion:113 Resp: 125903  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.2 123.2  
192 21.3 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 4.396 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

Tgt Ion: 75 Resp: 16571  
Ion Ratio Lower Upper  
75 100  
110 9.4 18.7 56.1#  
77 0.1 24.6 37.0#

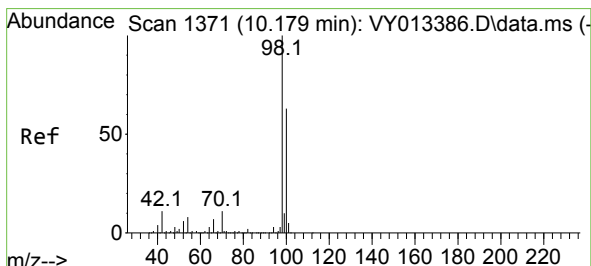
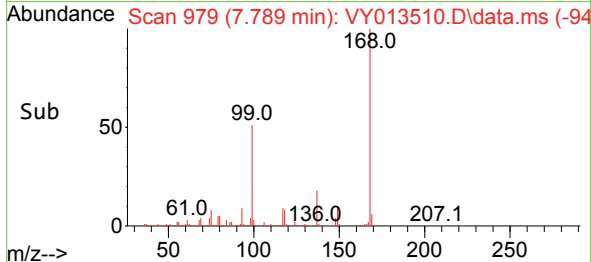
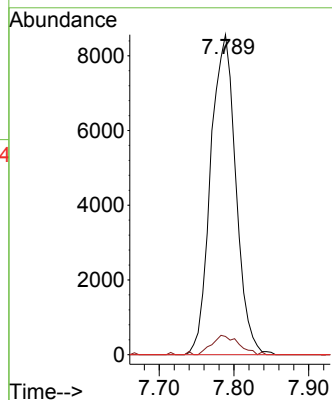
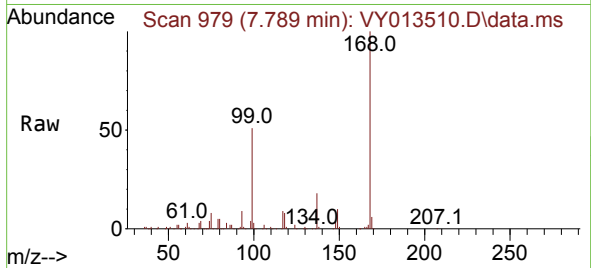




#38  
Carbon Tetrachloride  
Concen: 5.064 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

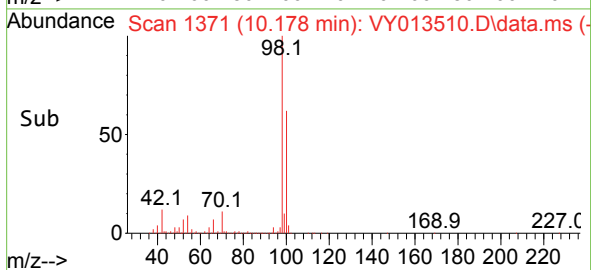
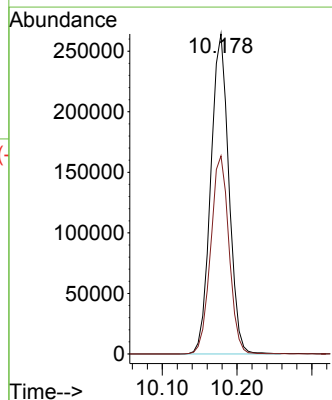
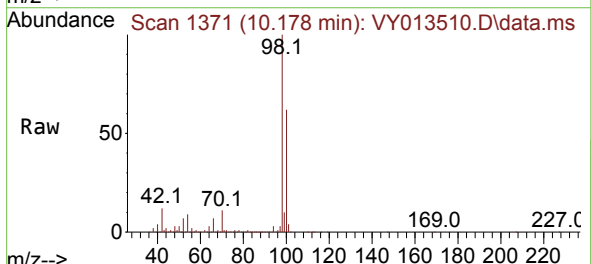
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BU-511-VOC-01

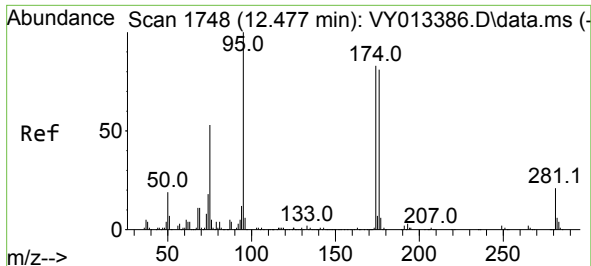
Tgt Ion:117 Resp: 20008  
Ion Ratio Lower Upper  
117 100  
119 5.7 79.0 118.6#  
121 0.0 26.6 40.0#



#50  
Toluene-d8  
Concen: 54.942 ug/l  
RT: 10.178 min Scan# 1371  
Delta R.T. -0.001 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

Tgt Ion: 98 Resp: 443972  
Ion Ratio Lower Upper  
98 100  
100 62.7 50.5 75.7

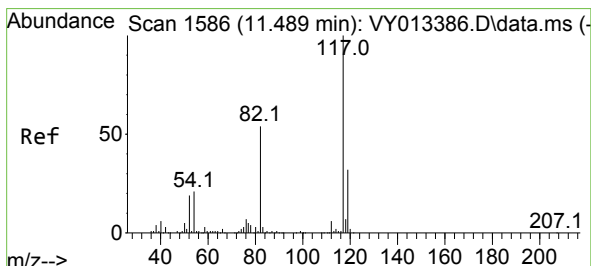
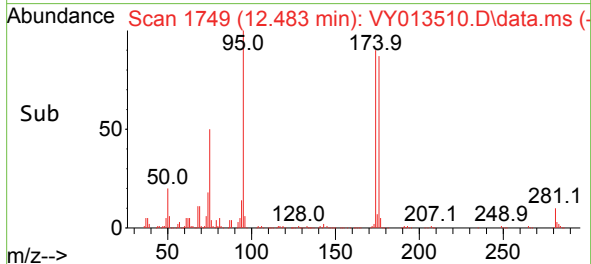
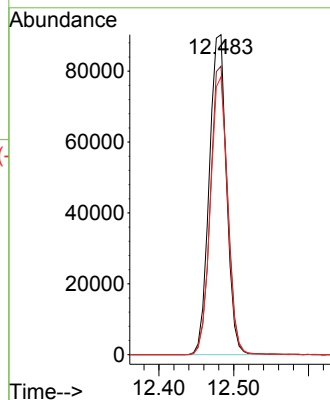
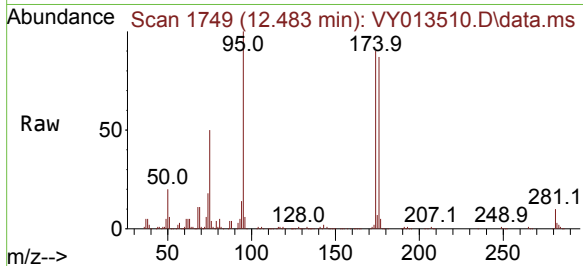




#62  
4-Bromofluorobenzene  
Concen: 53.150 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

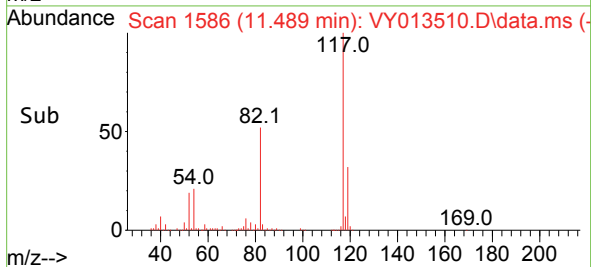
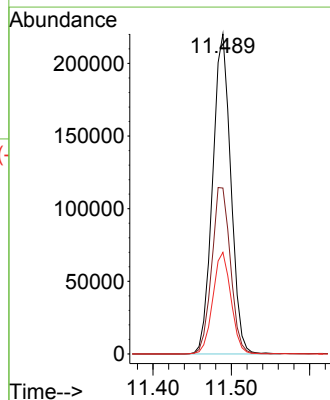
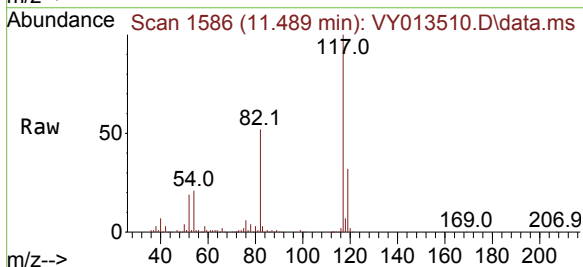
Instrument :  
MSVOA\_Y  
ClientSampleId :  
BU-511-VOC-01

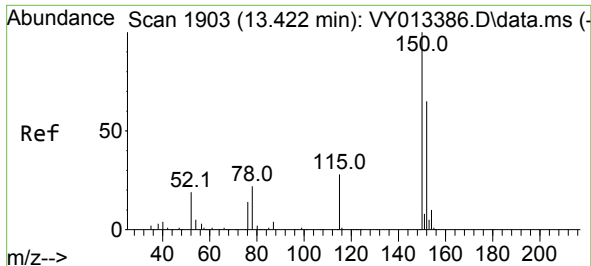
Tgt Ion: 95 Resp: 144790  
Ion Ratio Lower Upper  
95 100  
174 90.1 0.0 182.0  
176 86.6 0.0 175.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

Tgt Ion: 117 Resp: 355372  
Ion Ratio Lower Upper  
117 100  
82 51.8 43.0 64.6  
119 31.8 25.5 38.3

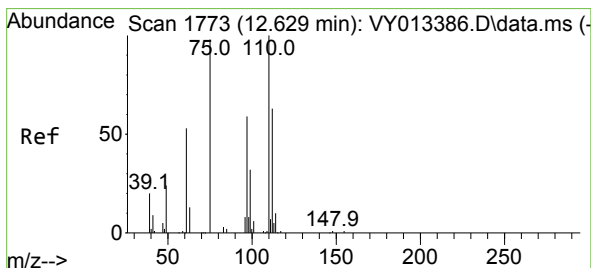
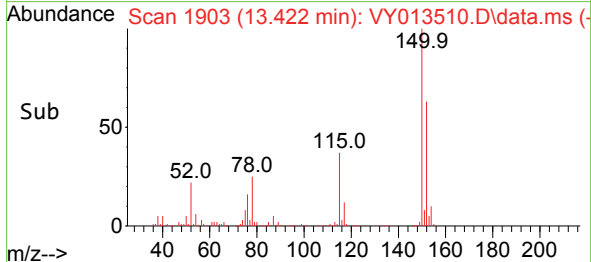
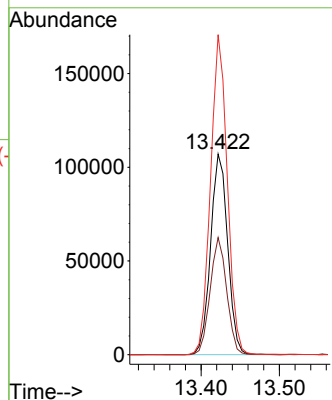
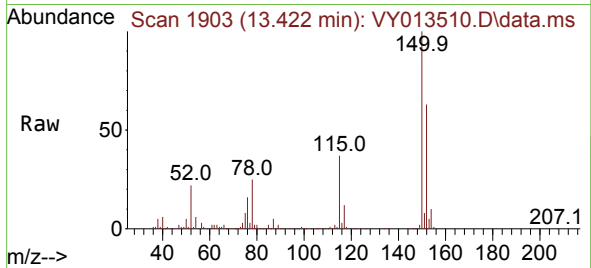




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1903  
 Delta R.T. -0.000 min  
 Lab File: VY013510.D  
 Acq: 27 Apr 2023 22:21

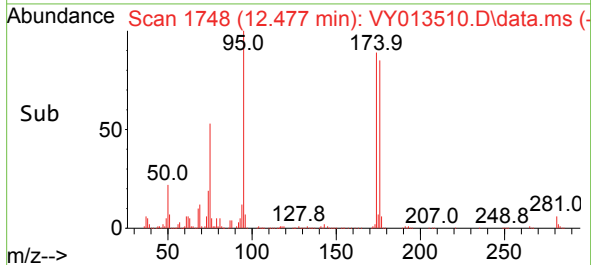
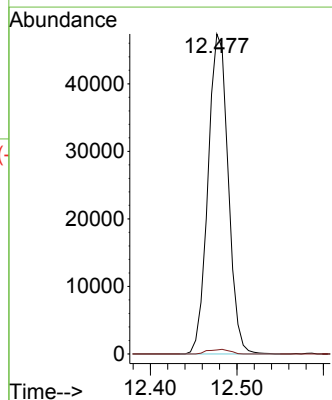
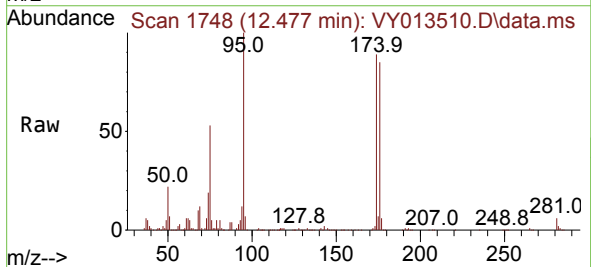
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 BU-511-VOC-01

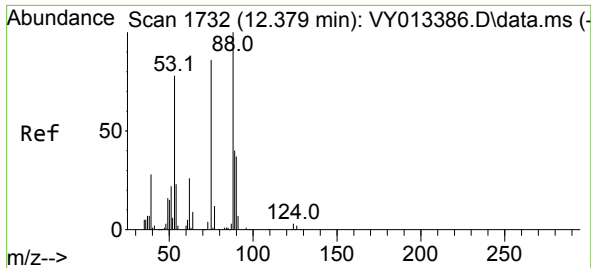
Tgt Ion:152 Resp: 162322  
 Ion Ratio Lower Upper  
 152 100  
 115 56.5 28.1 84.2  
 150 156.0 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 35.019 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.152 min  
 Lab File: VY013510.D  
 Acq: 27 Apr 2023 22:21

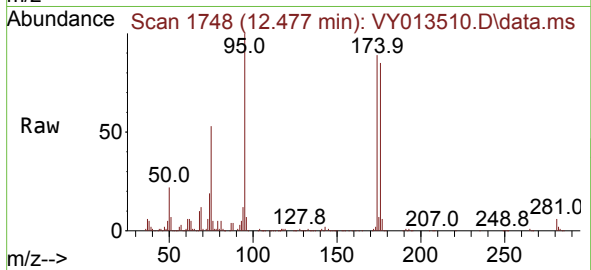
Tgt Ion: 75 Resp: 76661  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.634 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.098 min  
Lab File: VY013510.D  
Acq: 27 Apr 2023 22:21

Instrument :  
MSVOA\_Y  
ClientSampleId :  
BU-511-VOC-01



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.4   | 73.2  | 109.8# |
| 89      | 0.1   | 38.0  | 57.0#  |

