

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061523\  
 Data File : VY014187.D  
 Acq On : 15 Jun 2023 14:19  
 Operator : KP/MD  
 Sample : 03222-12RE  
 Misc : 8.22g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-GRAB-5-SB-26

Quant Time: Jun 16 02:08:15 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 2023  
 Response via : Initial Calibration

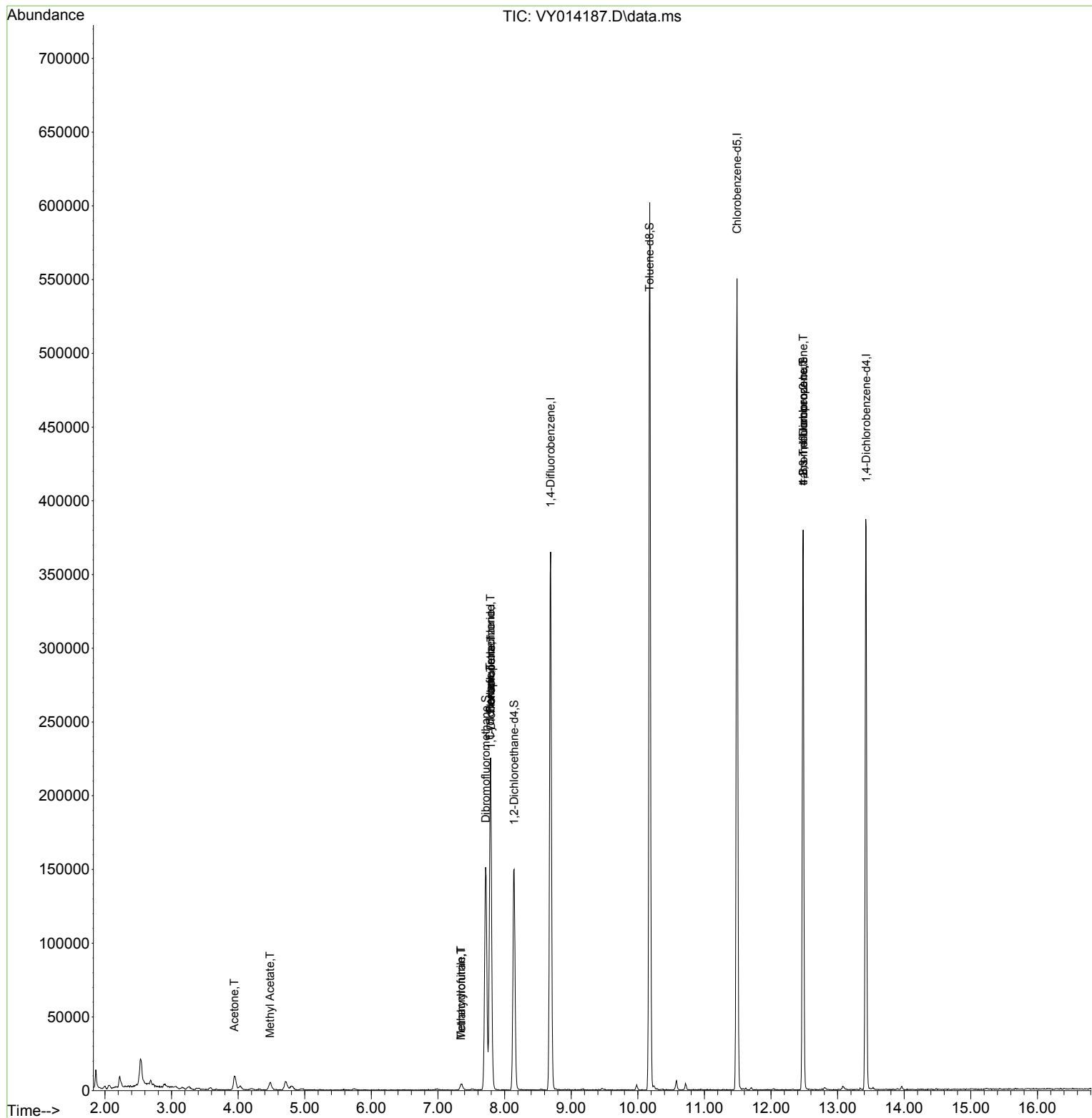
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 171867   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 300596   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 287466   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 101399   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 124917   | 52.195    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 104.400% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 103647   | 48.620    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 97.240%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 373573   | 46.874    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 93.740%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 104838   | 37.031    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 74.060%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.942  | 59    | 1622     | Below Cal | #          | 94       |
| 16) Acetone                   | 3.942  | 43    | 16693    | 23.139    | ug/l       | 99       |
| 18) Methyl Acetate            | 4.479  | 43    | 9659     | 3.449     | ug/l       | 97       |
| 20) Methylene Chloride        | 4.716  | 84    | 4166     | Below Cal | #          | 82       |
| 29) Tetrahydrofuran           | 7.350  | 42    | 3329     | 5.912     | ug/l       | 92       |
| 31) Cyclohexane               | 7.783  | 56    | 3725     | 1.162     | ug/l #     | 21       |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 12797    | 3.851     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 17076    | 4.452     | ug/l #     | 17       |
| 41) Methacrylonitrile         | 7.344  | 41    | 2036     | 1.740     | ug/l #     | 46       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 58171    | 43.727    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 58171    | 94.520    | ug/l #     | 11       |
| -----                         |        |       |          |           |            |          |

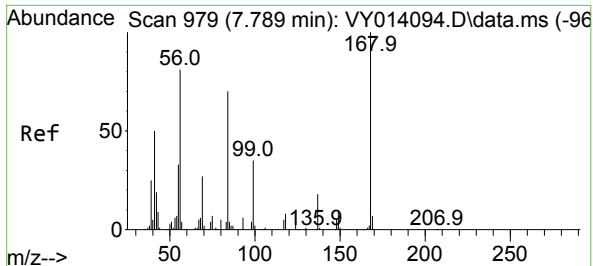
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061523\  
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TOTAL-VOC-GRAB-5-SB-26

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Quant Title : SW846 8260  
QLast Update : Fri Jun 09 18:07:13 2023  
Response via : Initial Calibration

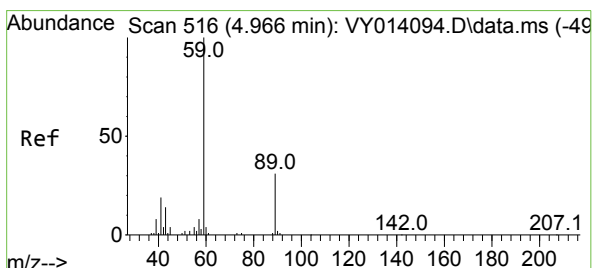
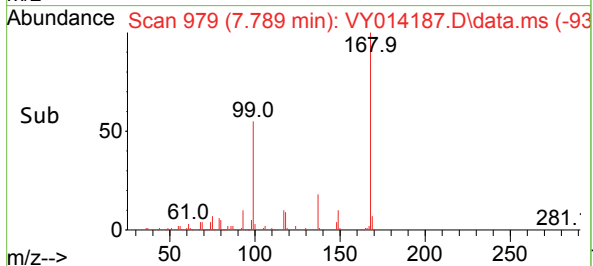
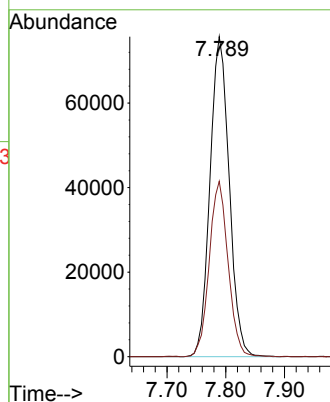
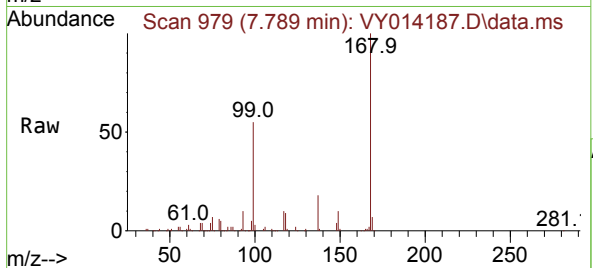




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

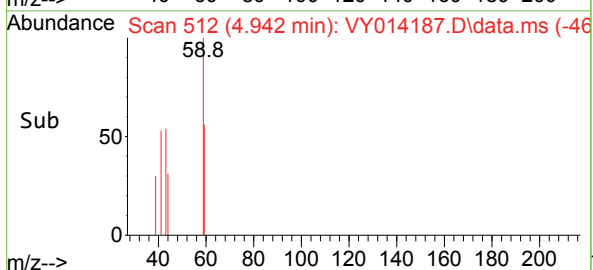
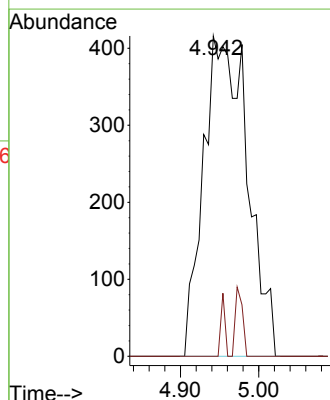
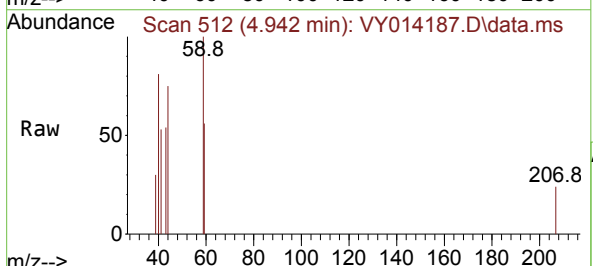
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-GRAB-5-SB-26

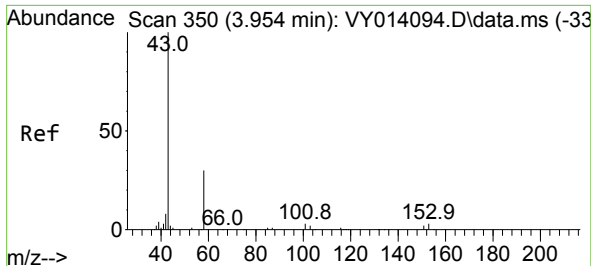
Tgt Ion:168 Resp: 171867  
Ion Ratio Lower Upper  
168 100  
99 54.8 43.4 65.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.942 min Scan# 512  
Delta R.T. -0.024 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

Tgt Ion: 59 Resp: 1622  
Ion Ratio Lower Upper  
59 100  
57 1.8 3.0 4.4#





#16

Acetone

Concen: 23.139 ug/l

RT: 3.942 min Scan# 34

Delta R.T. -0.012 min

Lab File: VY014187.D

Acq: 15 Jun 2023 14:19

Instrument :

MSVOA\_Y

ClientSampleId :

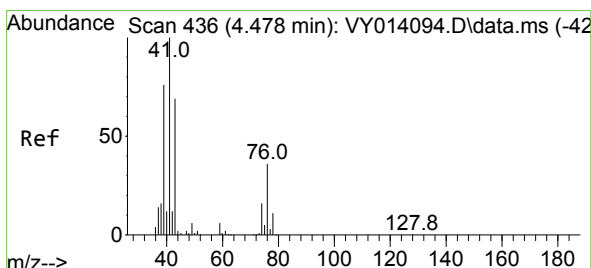
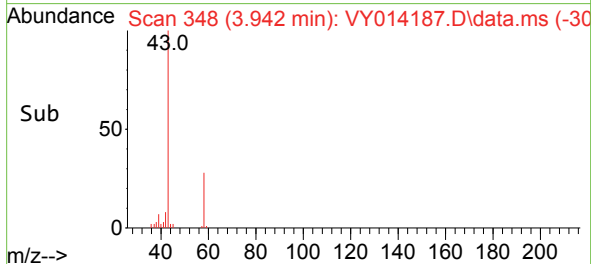
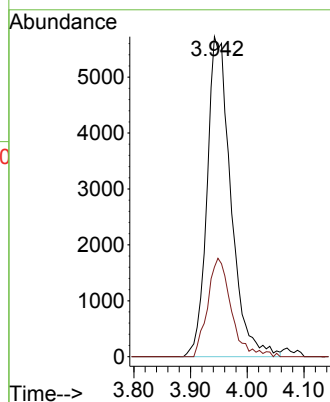
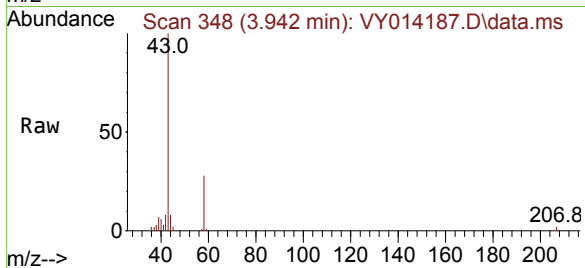
TOTAL-VOC-GRAB-5-SB-26

Tgt Ion: 43 Resp: 16693

Ion Ratio Lower Upper

43 100

58 28.0 22.7 34.1



#18

Methyl Acetate

Concen: 3.449 ug/l

RT: 4.479 min Scan# 436

Delta R.T. 0.001 min

Lab File: VY014187.D

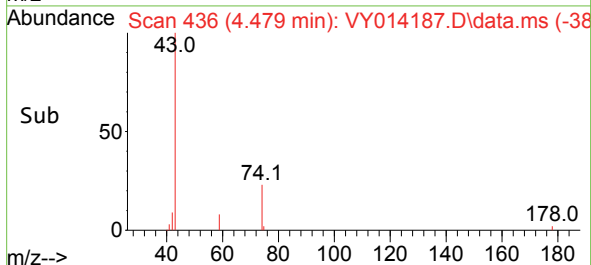
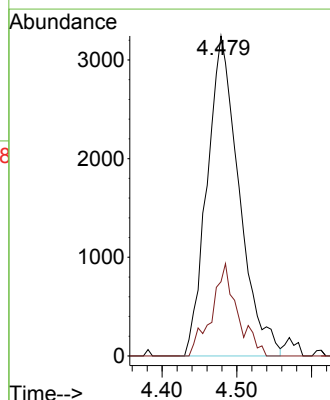
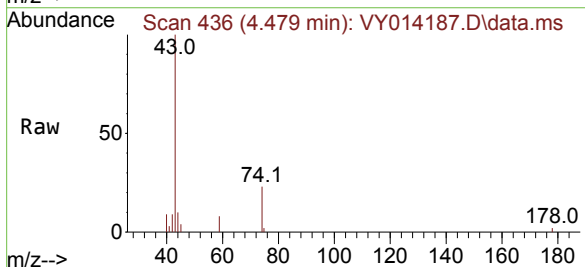
Acq: 15 Jun 2023 14:19

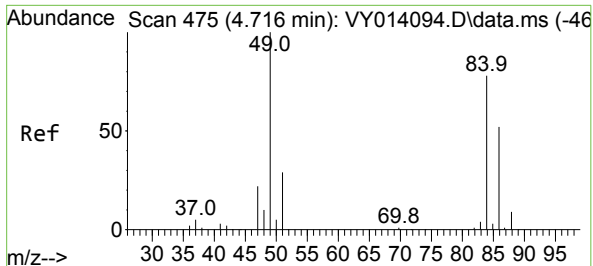
Tgt Ion: 43 Resp: 9659

Ion Ratio Lower Upper

43 100

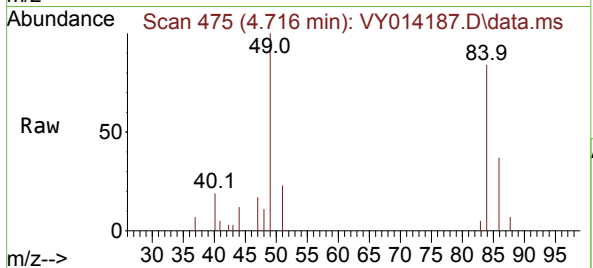
74 23.3 17.4 26.0



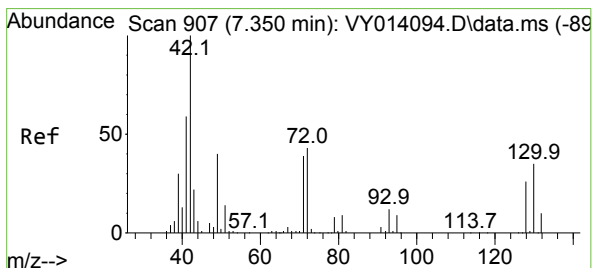
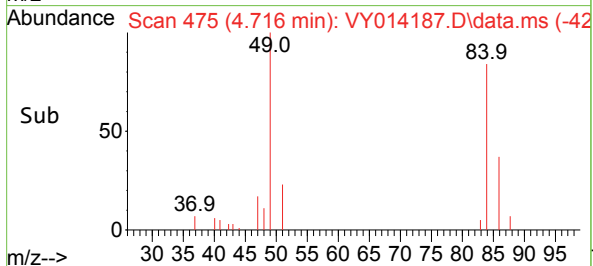
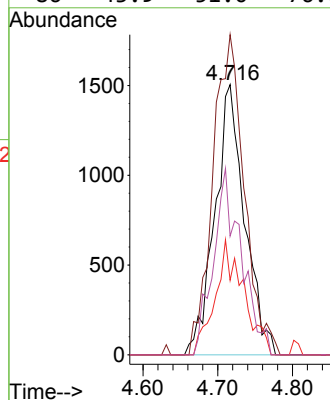


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-GRAB-5-SB-26

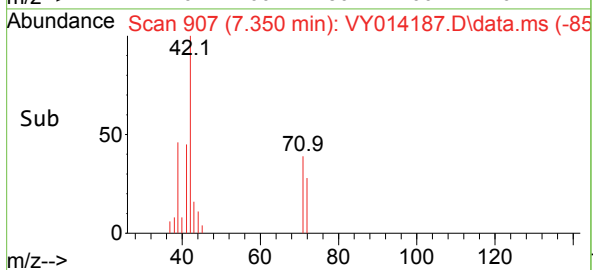
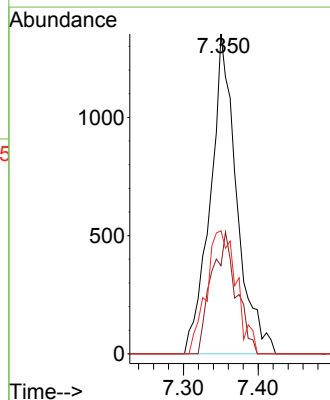
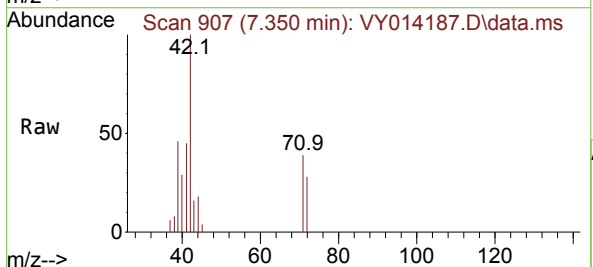


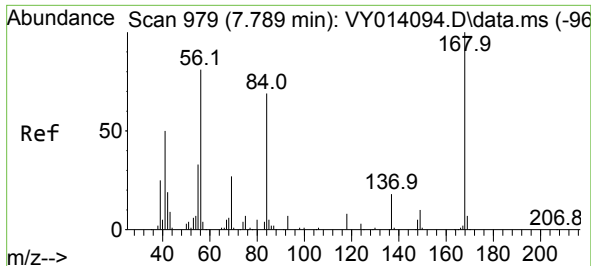
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 4166  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.5 | 106.9 | 160.3 |
| 51       | 27.6  | 33.2  | 49.8# |
| 86       | 43.9  | 51.0  | 76.6# |



#29  
Tetrahydrofuran  
Concen: 5.912 ug/l  
RT: 7.350 min Scan# 907  
Delta R.T. 0.000 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 3329  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 35.7  | 32.8  | 49.2  |
| 71       | 43.8  | 31.0  | 46.4  |

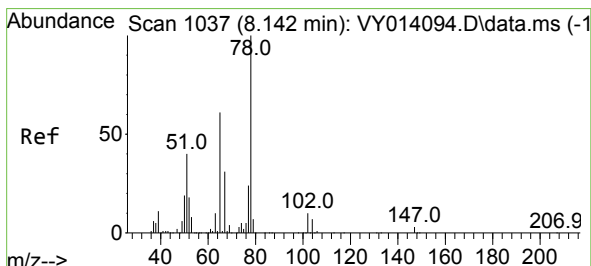
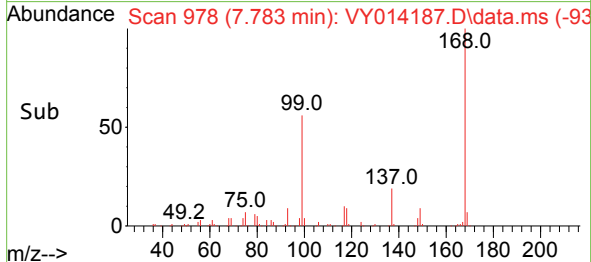
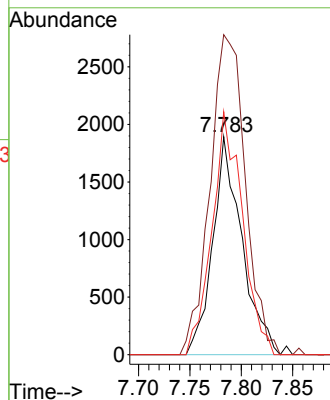
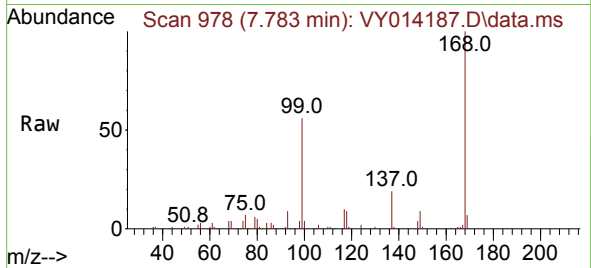




#31  
Cyclohexane  
Concen: 1.162 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

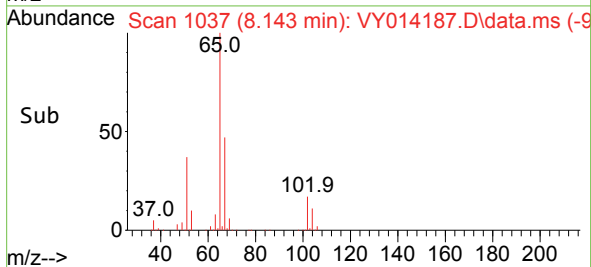
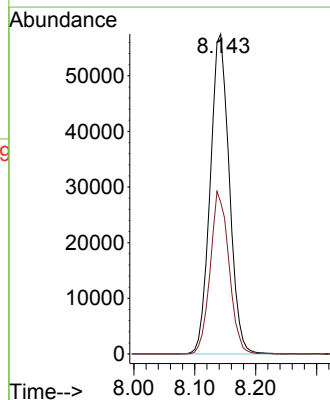
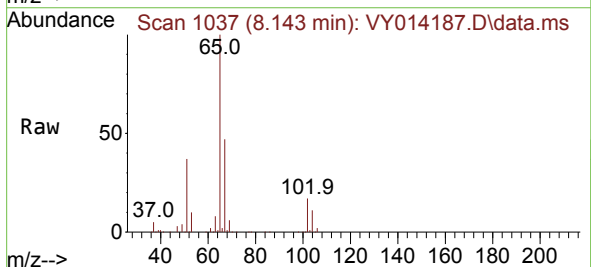
Instrument :  
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Tgt Ion: 56 Resp: 3725  
Ion Ratio Lower Upper  
56 100  
69 146.9 27.8 41.6#  
84 111.5 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 52.195 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.001 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

Tgt Ion: 65 Resp: 124917  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 101.8

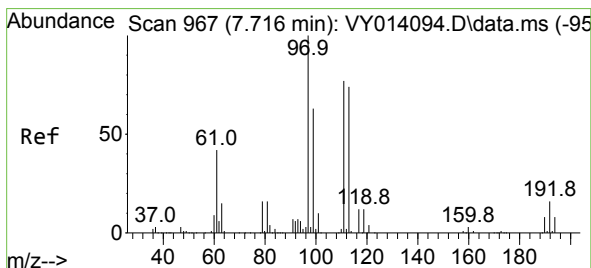
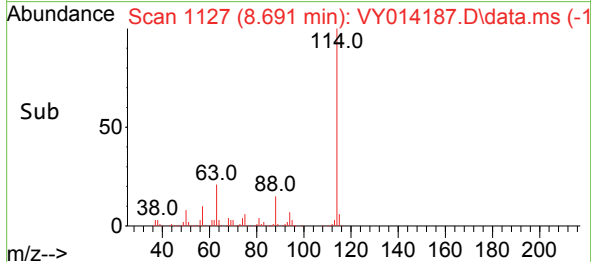
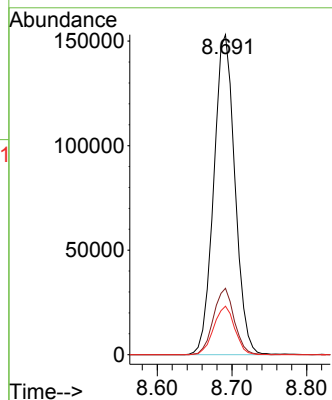
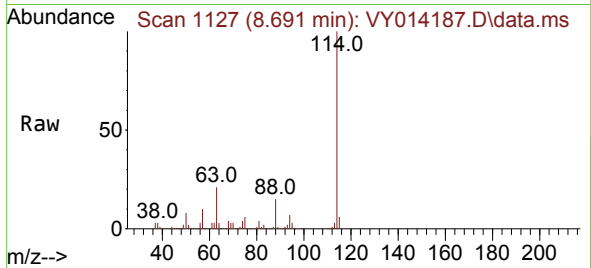




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

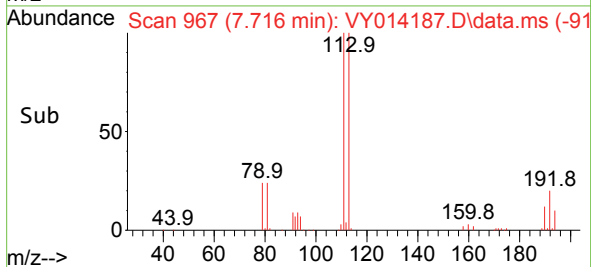
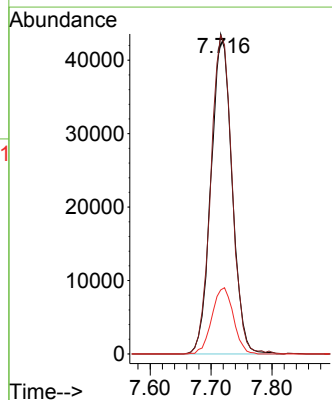
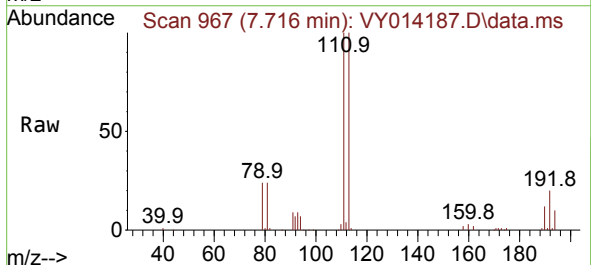
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-GRAB-5-SB-26

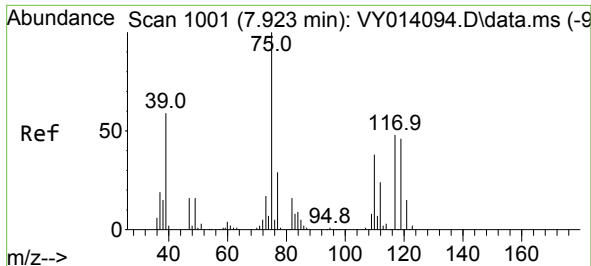
Tgt Ion:114 Resp: 300596  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 42.4  
88 15.2 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 48.620 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

Tgt Ion:113 Resp: 103647  
Ion Ratio Lower Upper  
113 100  
111 101.7 81.3 121.9  
192 21.3 16.9 25.3

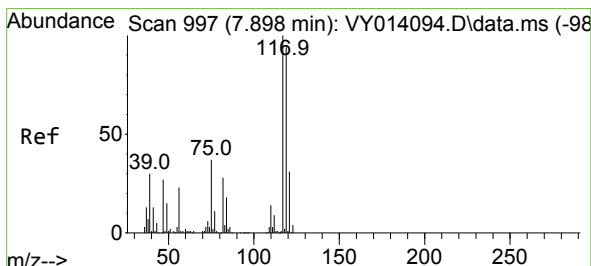
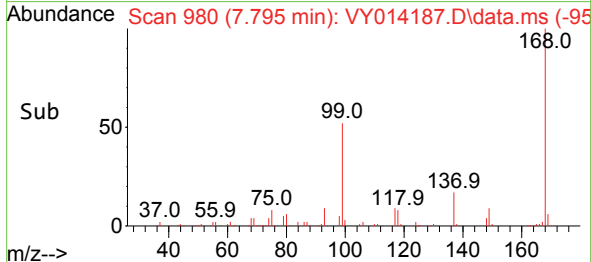
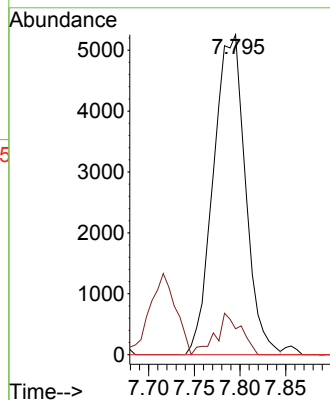
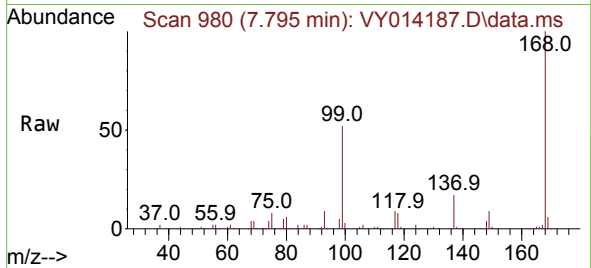




#36  
1,1-Dichloropropene  
Concen: 3.851 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

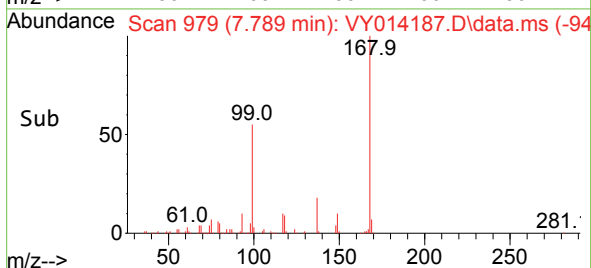
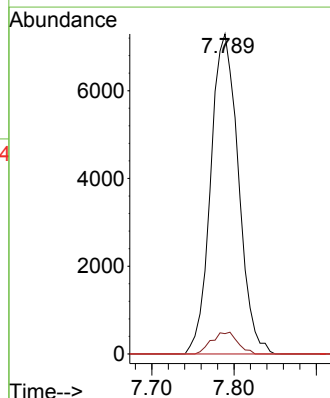
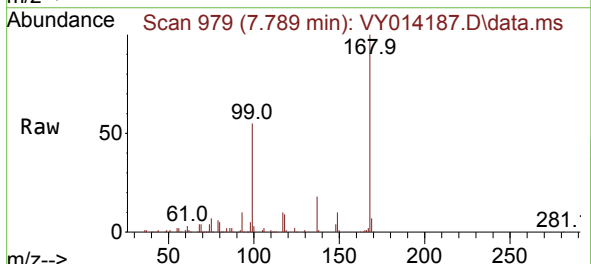
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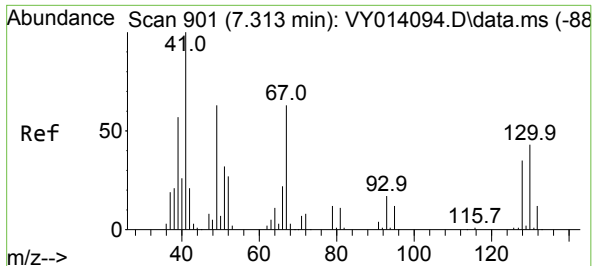
Tgt Ion: 75 Resp: 12797  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.8 53.5#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 4.452 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.109 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

Tgt Ion: 117 Resp: 17076  
Ion Ratio Lower Upper  
117 100  
119 6.3 76.4 114.6#  
121 0.0 25.8 38.6#

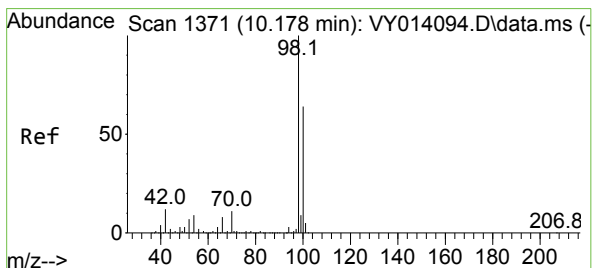
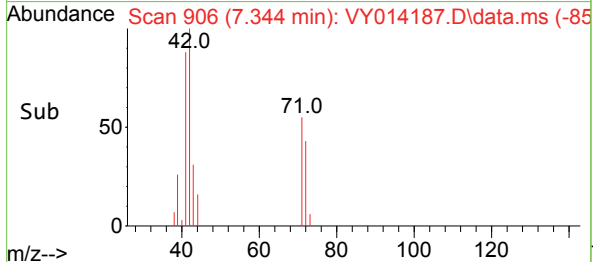
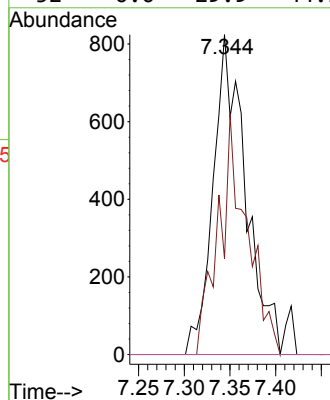
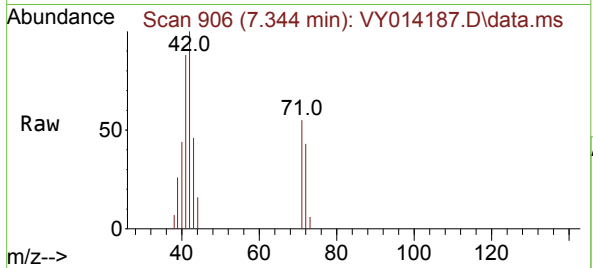




#41  
Methacrylonitrile  
Concen: 1.740 ug/l  
RT: 7.344 min Scan# 901  
Delta R.T. 0.031 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

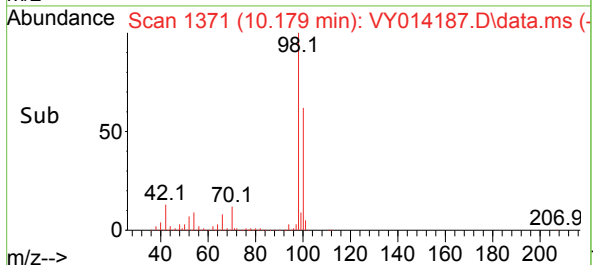
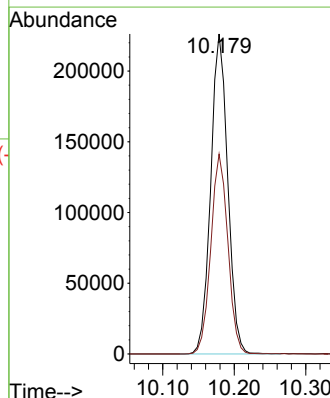
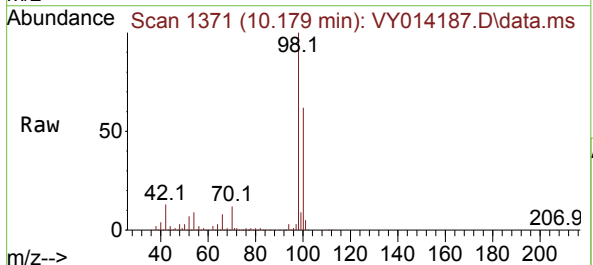
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-GRAB-5-SB-26

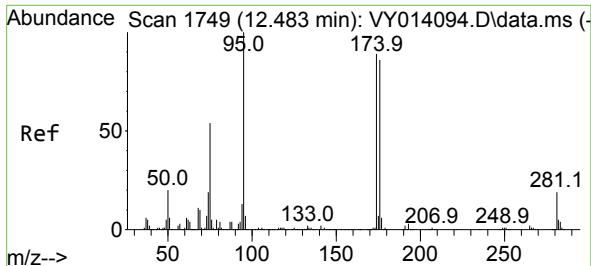
|             |                |
|-------------|----------------|
| Tgt Ion: 41 | Resp: 2036     |
| Ion Ratio   | Lower Upper    |
| 41          | 100            |
| 39          | 65.8 52.1 78.1 |
| 67          | 0.0 66.2 99.2# |
| 52          | 0.0 29.9 44.9# |



#50  
Toluene-d8  
Concen: 46.874 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.001 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 373573   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 62.5 50.1 75.1 |

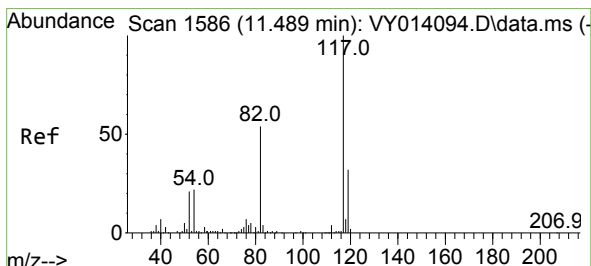
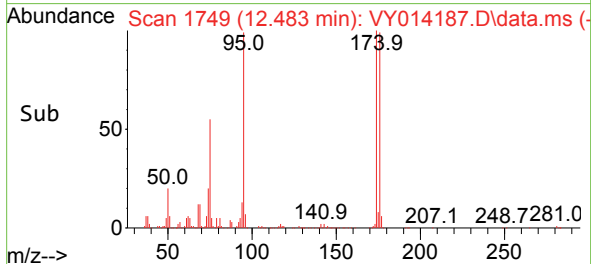
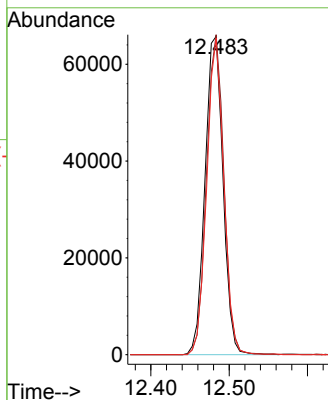
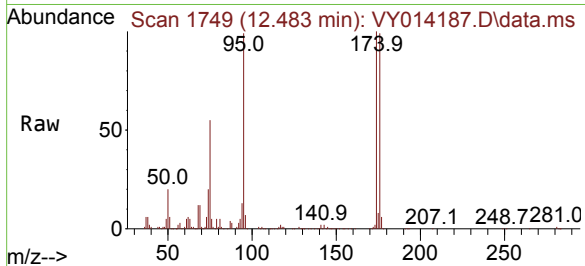




#62  
4-Bromofluorobenzene  
Concen: 37.031 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

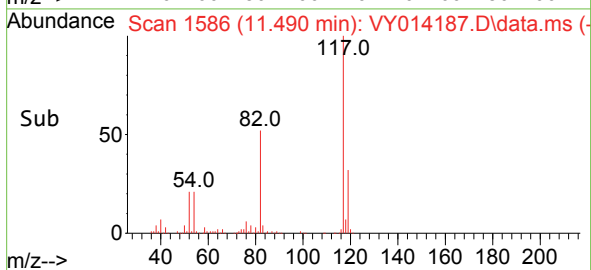
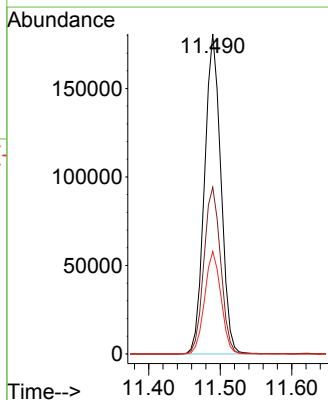
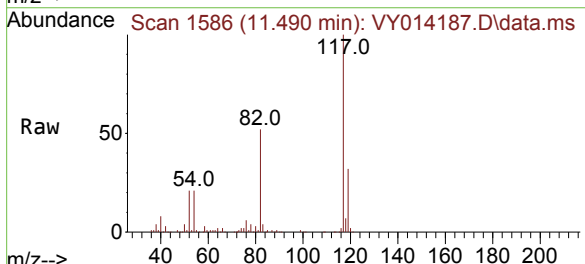
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-GRAB-5-SB-26

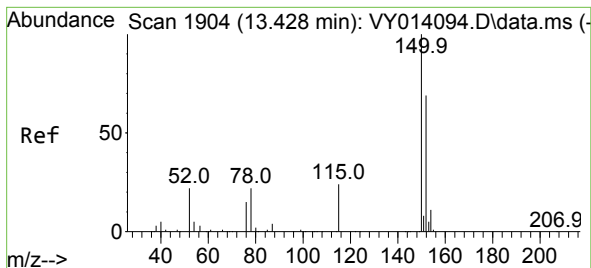
Tgt Ion: 95 Resp: 104838  
Ion Ratio Lower Upper  
95 100  
174 97.0 0.0 178.2  
176 94.2 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.001 min  
Lab File: VY014187.D  
Acq: 15 Jun 2023 14:19

Tgt Ion: 117 Resp: 287466  
Ion Ratio Lower Upper  
117 100  
82 52.1 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: VY014187.D

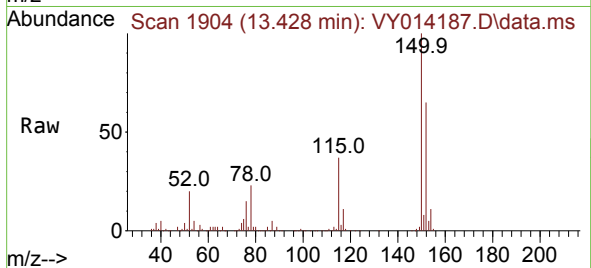
Acq: 15 Jun 2023 14:19

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-GRAB-5-SB-26



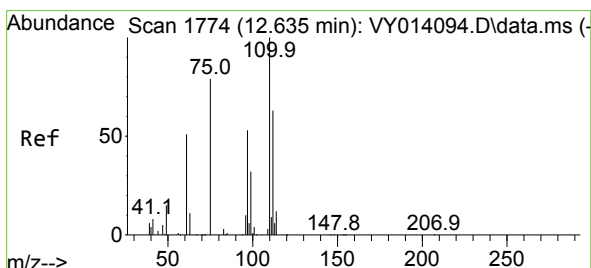
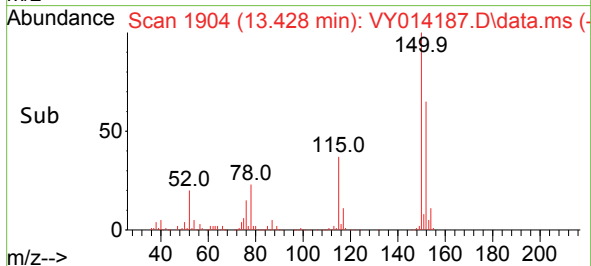
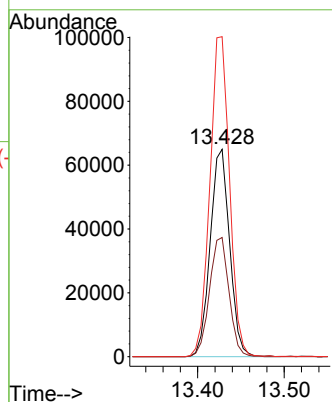
Tgt Ion:152 Resp: 101399

Ion Ratio Lower Upper

152 100

115 57.6 28.8 86.5

150 156.0 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 43.727 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY014187.D

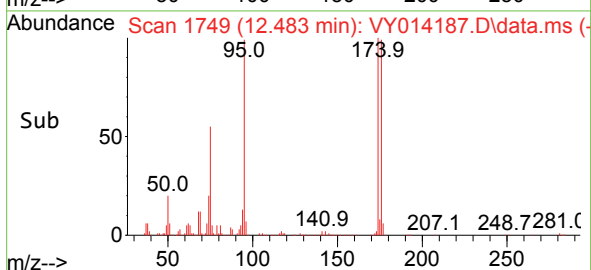
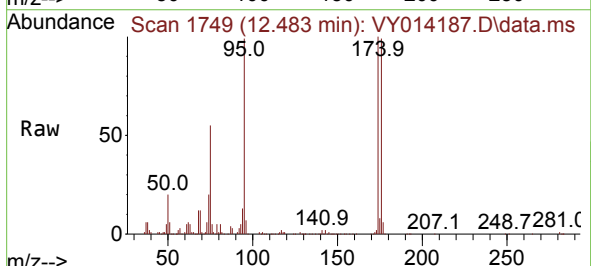
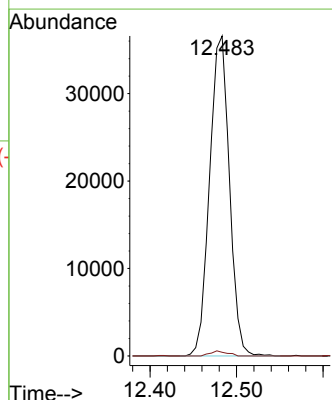
Acq: 15 Jun 2023 14:19

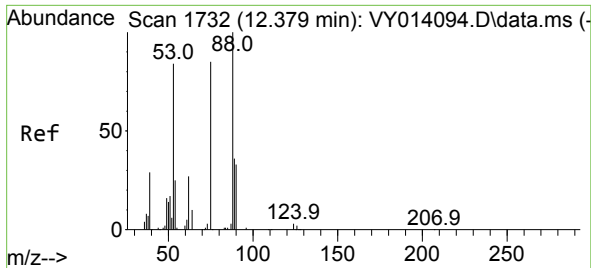
Tgt Ion: 75 Resp: 58171

Ion Ratio Lower Upper

75 100

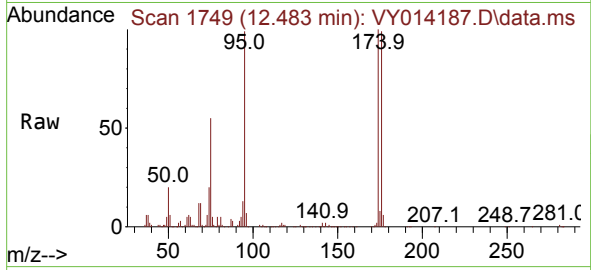
77 1.3 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 94.520 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY014187.D  
 Acq: 15 Jun 2023 14:19

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-GRAB-5-SB-26



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.2   | 77.8  | 116.8# |
| 89      | 0.1   | 37.4  | 56.0#  |

