

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062923\  
 Data File : VY014501.D  
 Acq On : 29 Jun 2023 17:13  
 Operator : KP/MD  
 Sample : 03473-07  
 Misc : 5.54g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CMC-EME-TOPSOIL-012

Quant Time: Jun 30 04:11:06 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

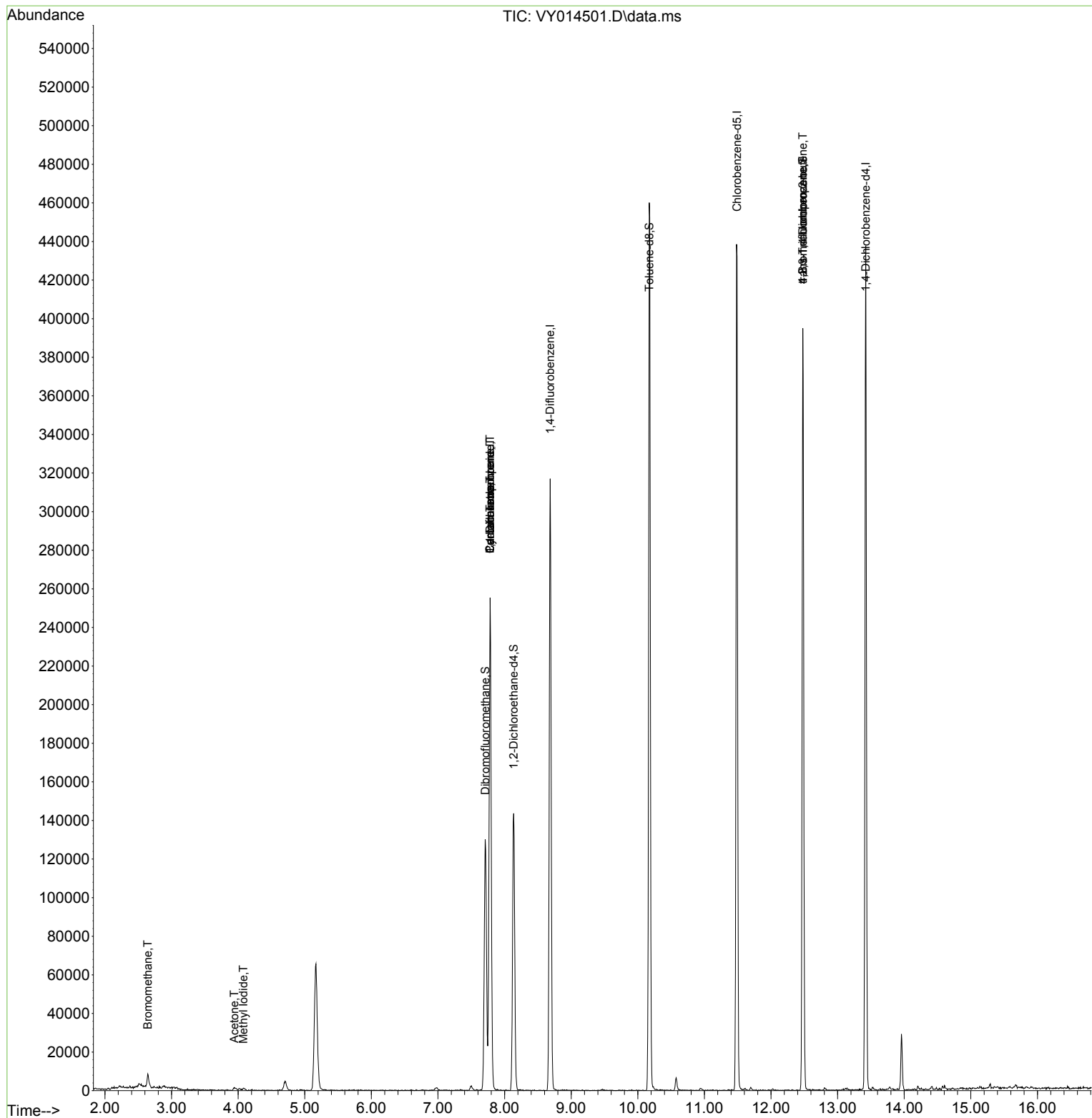
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 193484   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 269013   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 241143   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 114725   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 138857   | 57.802    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 115.600% |
| 35) Dibromofluoromethane      | 7.709  | 113   | 83604    | 50.303    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 100.600% |
| 50) Toluene-d8                | 10.172 | 98    | 305440   | 46.232    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 92.460%  |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 93414    | 39.605    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 79.220%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.643  | 94    | 3750     | 2.228     | ug/l   | 91       |
| 10) Methyl Iodide             | 4.076  | 142   | 1441     | 3.450     | ug/l # | 86       |
| 11) Tert butyl alcohol        | 4.942  | 59    | 777      | Below Cal | #      | 89       |
| 16) Acetone                   | 3.942  | 43    | 959      | 1.269     | ug/l # | 78       |
| 20) Methylene Chloride        | 4.704  | 84    | 3495     | Below Cal | #      | 64       |
| 31) Cyclohexane               | 7.783  | 56    | 3865     | 1.303     | ug/l # | 35       |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 12669    | 4.947     | ug/l # | 54       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 19254    | 5.974     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 60208    | 41.836    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 60208    | 95.248    | ug/l # | 11       |
| -----                         |        |       |          |           |        |          |

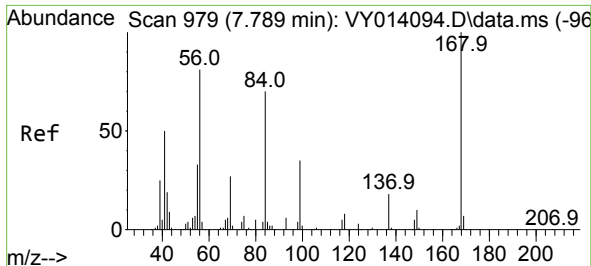
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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CMC-EME-TOPSOIL-012

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QLast Update : Fri Jun 23 17:18:46 2023  
Response via : Initial Calibration

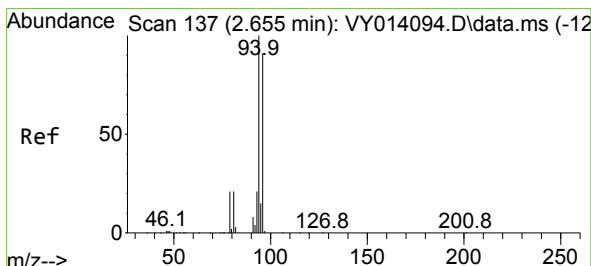
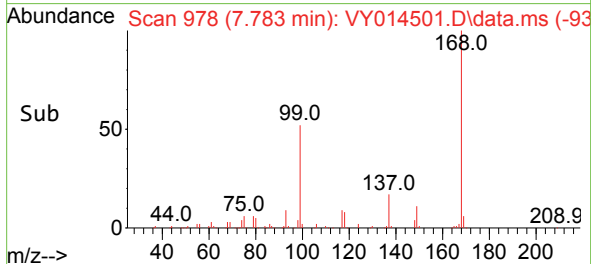
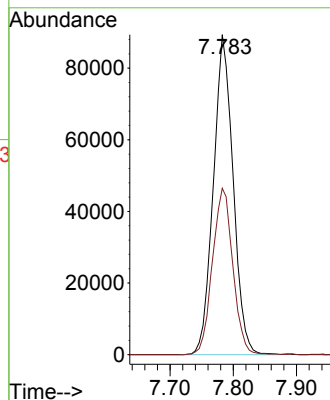
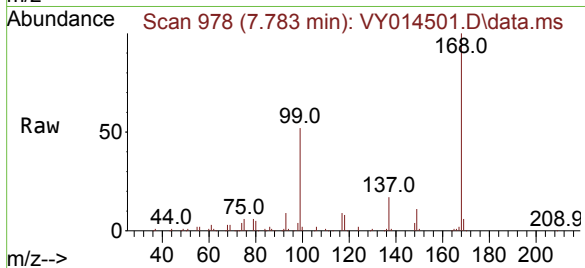




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

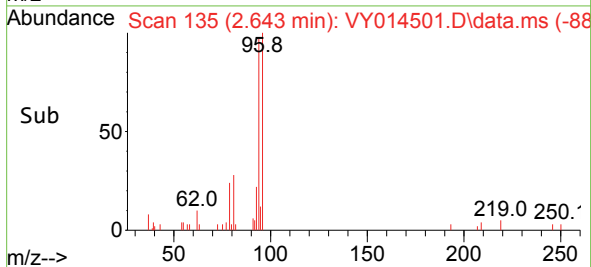
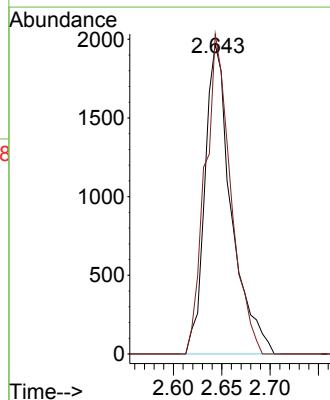
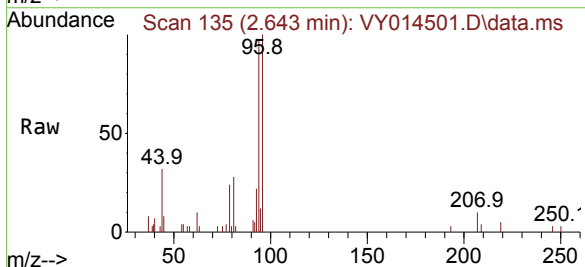
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CMC-EME-TOPSOIL-012

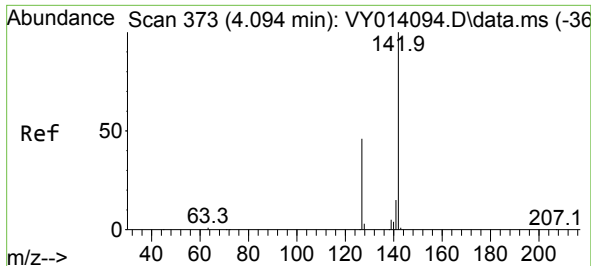
Tgt Ion:168 Resp: 193484  
Ion Ratio Lower Upper  
168 100  
99 52.0 43.4 65.0



#5  
Bromomethane  
Concen: 2.228 ug/l  
RT: 2.643 min Scan# 135  
Delta R.T. -0.012 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

Tgt Ion: 94 Resp: 3750  
Ion Ratio Lower Upper  
94 100  
96 103.4 75.8 113.6

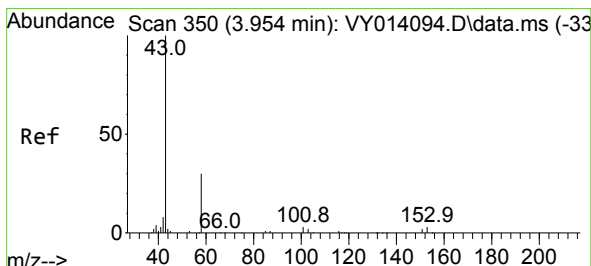
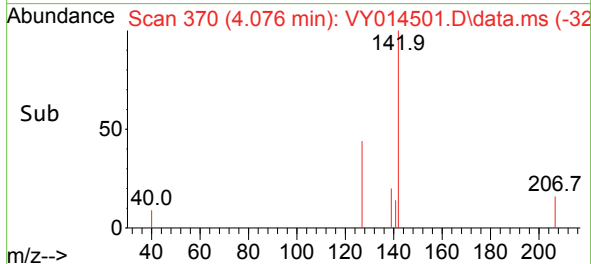
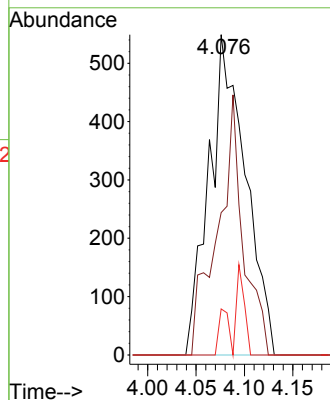
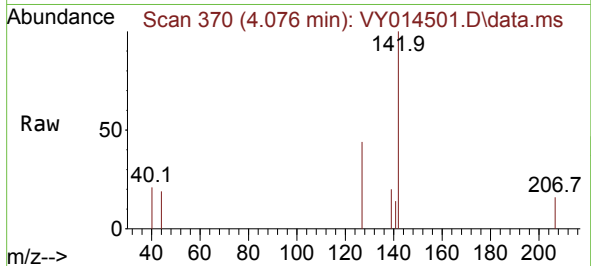




#10  
Methyl Iodide  
Concen: 3.450 ug/l  
RT: 4.076 min Scan# 31  
Delta R.T. -0.018 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

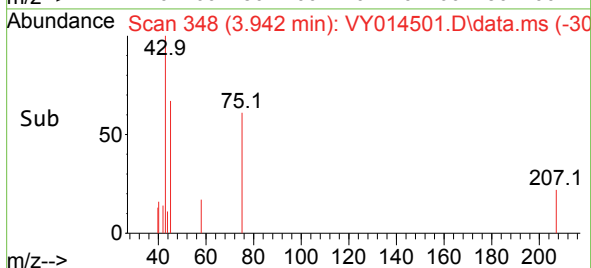
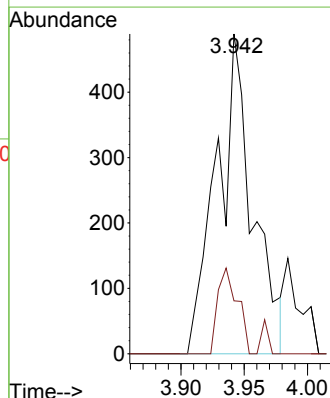
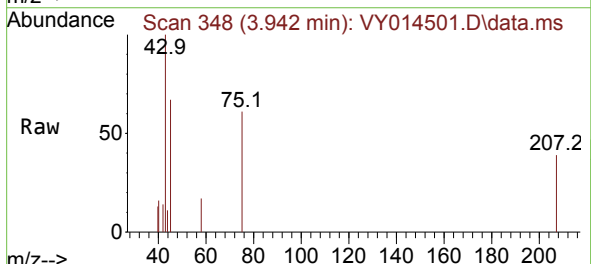
Instrument :  
MSVOA\_Y  
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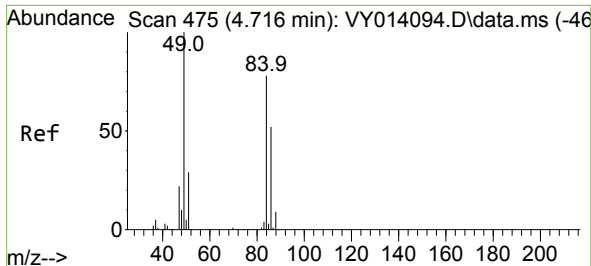
Tgt Ion:142 Resp: 1441  
Ion Ratio Lower Upper  
142 100  
127 57.2 37.6 56.4#  
141 9.9 11.8 17.8#



#16  
Acetone  
Concen: 1.269 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. -0.012 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

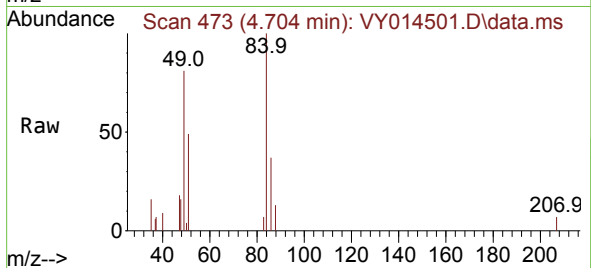
Tgt Ion: 43 Resp: 959  
Ion Ratio Lower Upper  
43 100  
58 16.6 22.7 34.1#



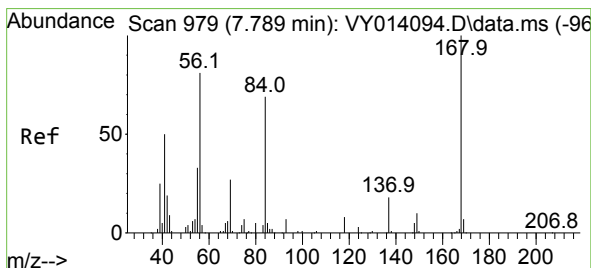
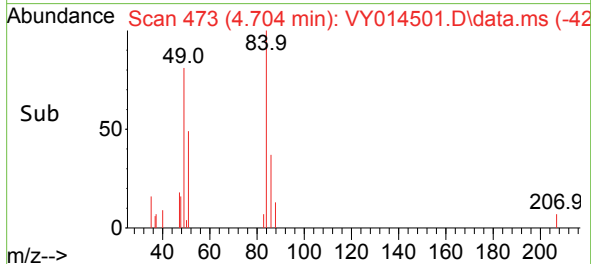
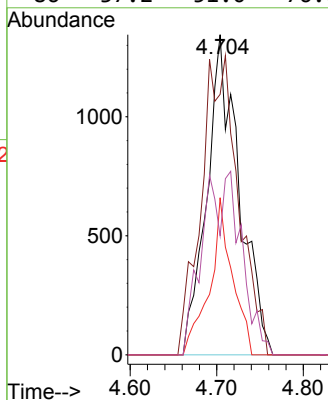


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.704 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CMC-EME-TOPSOIL-012

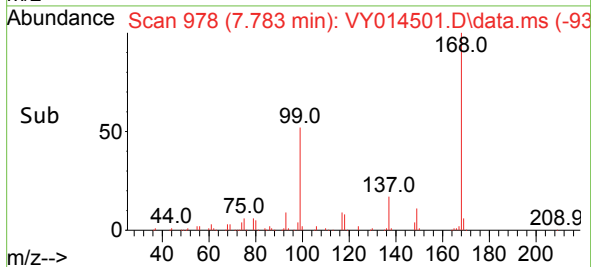
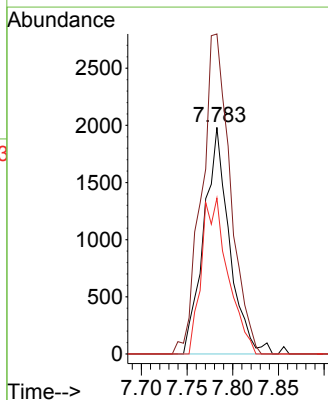
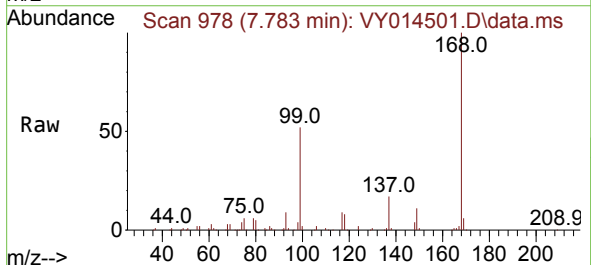


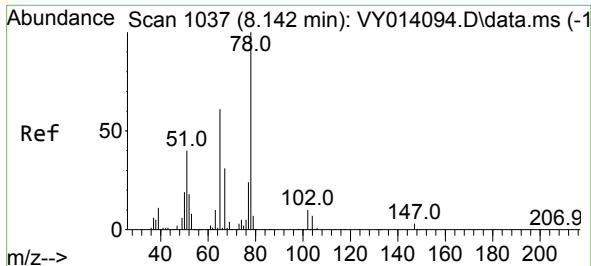
Tgt Ion: 84 Resp: 3495  
Ion Ratio Lower Upper  
84 100  
49 81.3 106.9 160.3#  
51 49.1 33.2 49.8  
86 37.2 51.0 76.6#



#31  
Cyclohexane  
Concen: 1.303 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.006 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

Tgt Ion: 56 Resp: 3865  
Ion Ratio Lower Upper  
56 100  
69 141.2 27.8 41.6#  
84 68.8 66.4 99.6

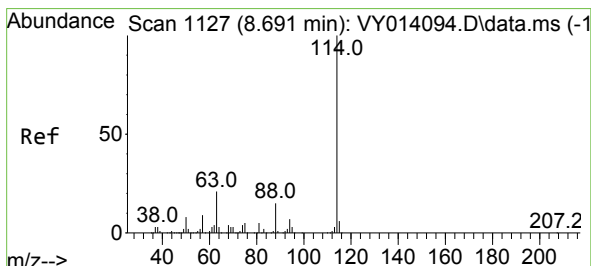
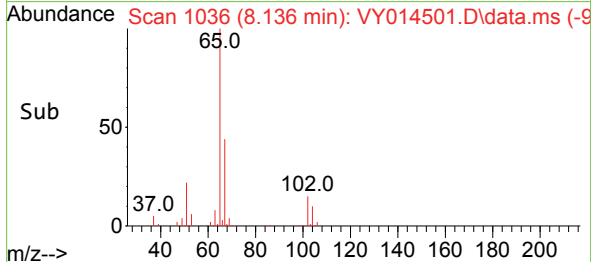
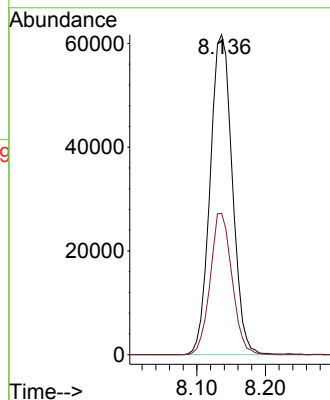
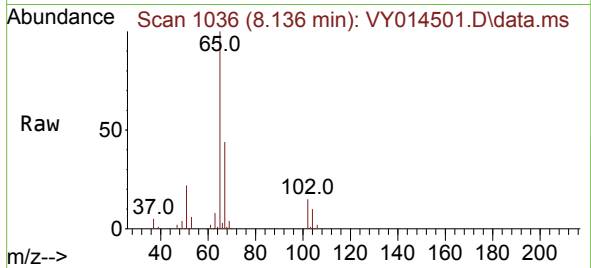




#33  
1,2-Dichloroethane-d4  
Concen: 57.802 ug/l  
RT: 8.136 min Scan# 110  
Delta R.T. -0.006 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

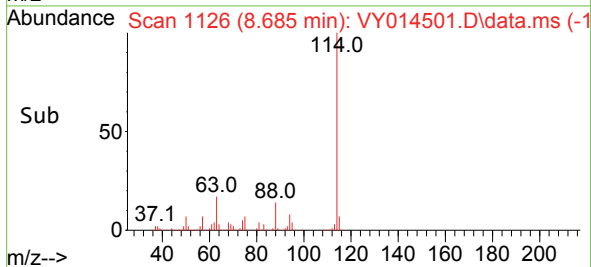
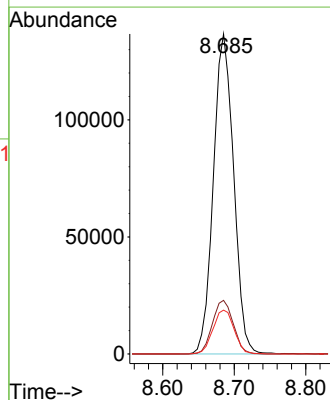
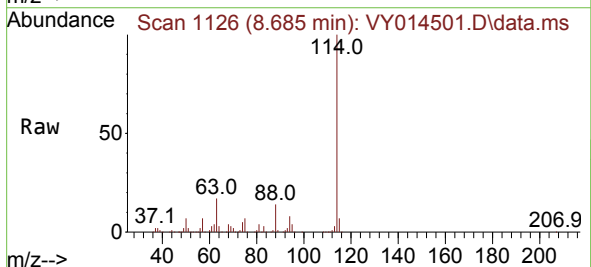
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CMC-EME-TOPSOIL-012

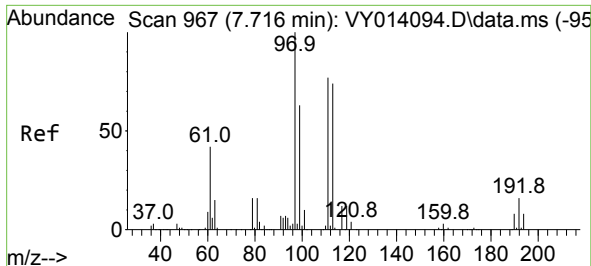
Tgt Ion: 65 Resp: 138857  
Ion Ratio Lower Upper  
65 100  
67 43.6 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. -0.006 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

Tgt Ion: 114 Resp: 269013  
Ion Ratio Lower Upper  
114 100  
63 16.7 0.0 42.4  
88 13.7 0.0 30.6

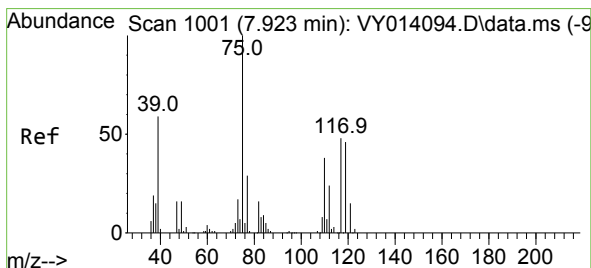
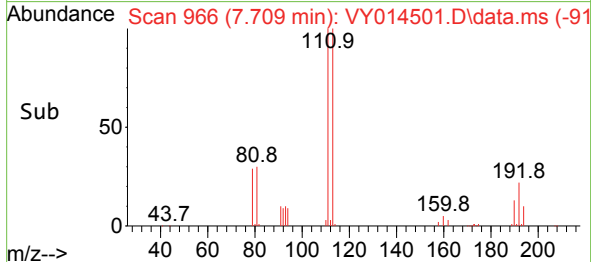
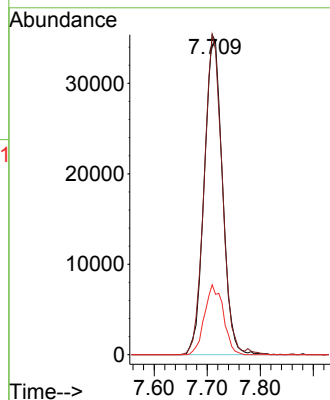
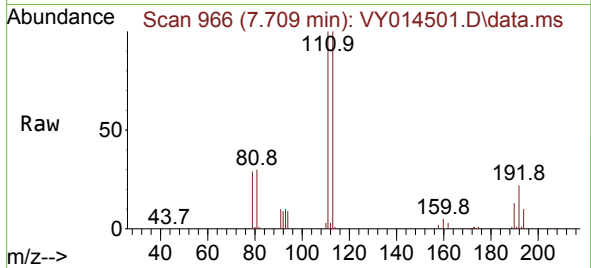




#35  
Dibromofluoromethane  
Concen: 50.303 ug/l  
RT: 7.709 min Scan# 91  
Delta R.T. -0.007 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

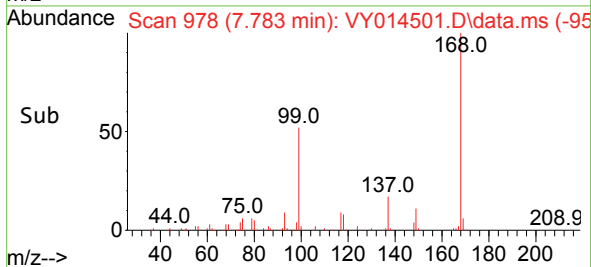
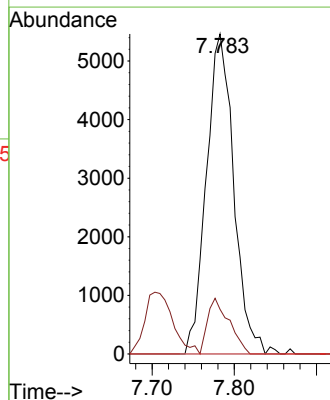
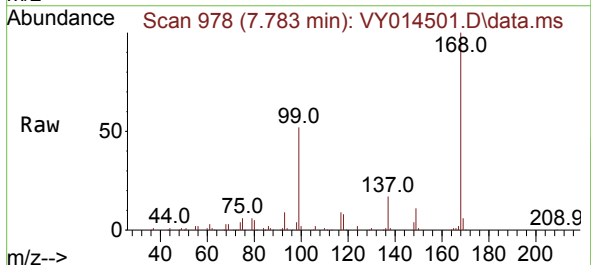
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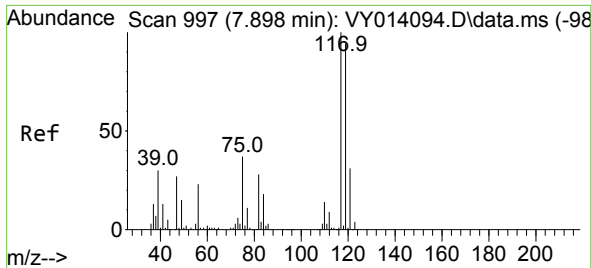
Tgt Ion:113 Resp: 83604  
Ion Ratio Lower Upper  
113 100  
111 99.7 81.3 121.9  
192 22.8 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.947 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

Tgt Ion: 75 Resp: 12669  
Ion Ratio Lower Upper  
75 100  
110 13.7 17.8 53.5#  
77 0.0 24.4 36.6#

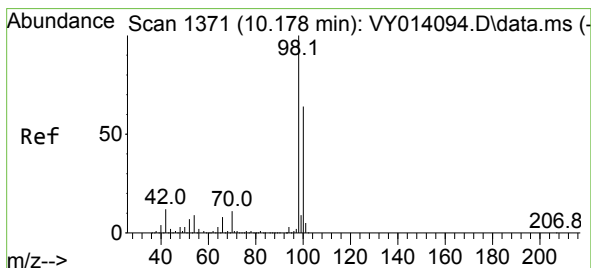
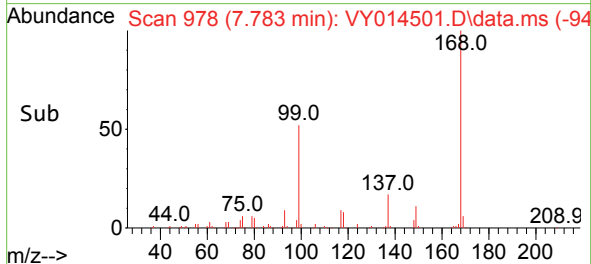
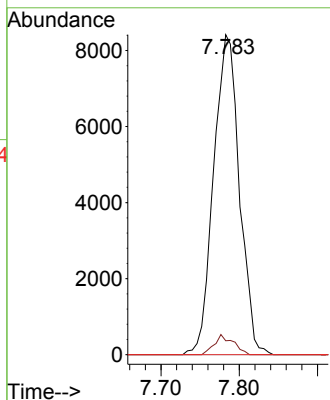
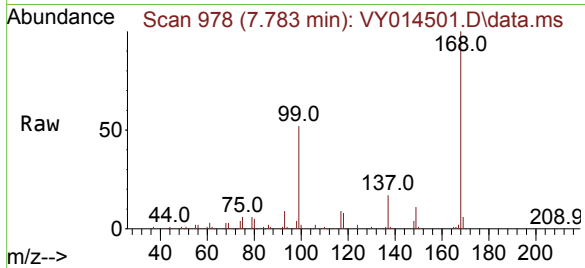




#38  
Carbon Tetrachloride  
Concen: 5.974 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.115 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

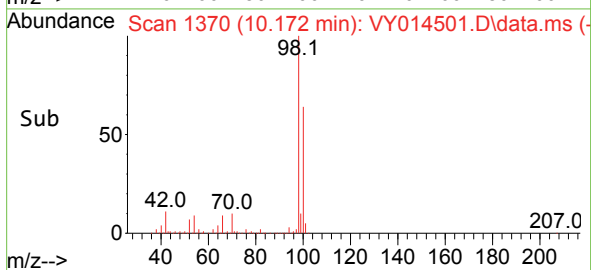
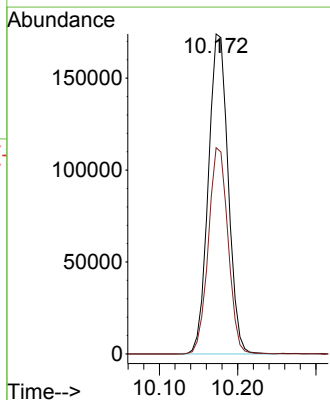
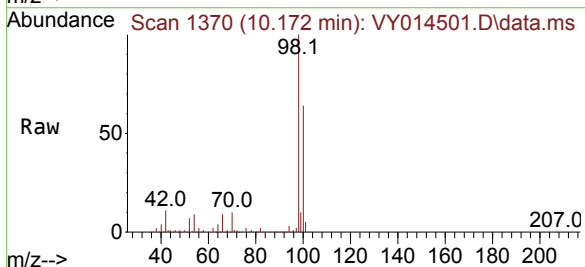
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CMC-EME-TOPSOIL-012

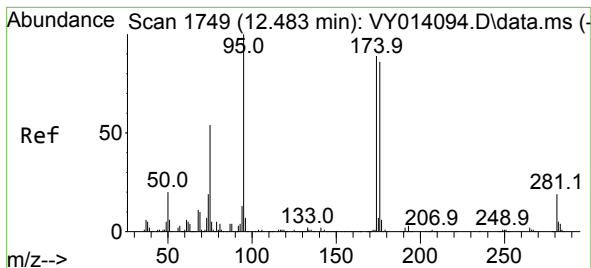
Tgt Ion:117 Resp: 19254  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 46.232 ug/l  
RT: 10.172 min Scan# 1370  
Delta R.T. -0.006 min  
Lab File: VY014501.D  
Acq: 29 Jun 2023 17:13

Tgt Ion: 98 Resp: 305440  
Ion Ratio Lower Upper  
98 100  
100 64.1 50.1 75.1





#62

4-Bromofluorobenzene

Concen: 39.605 ug/l

RT: 12.477 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY014501.D

Acq: 29 Jun 2023 17:13

Instrument :

MSVOA\_Y

ClientSampleId :

CMC-EME-TOPSOIL-012

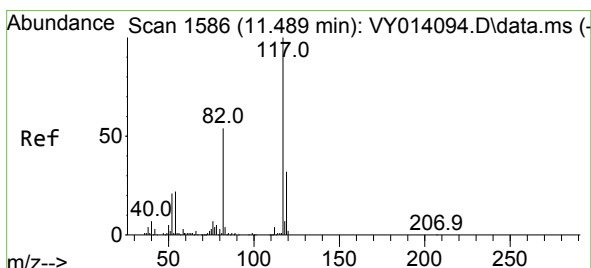
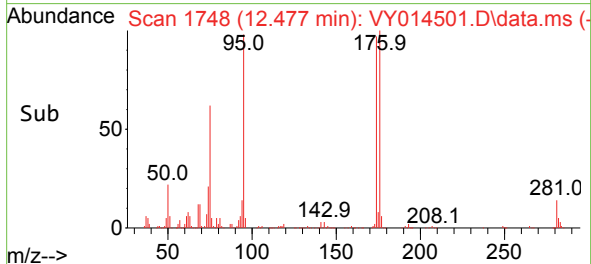
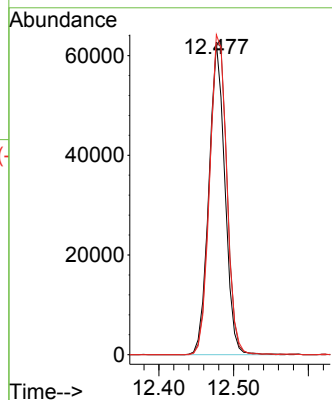
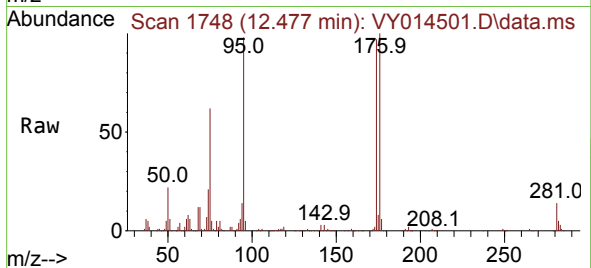
Tgt Ion: 95 Resp: 93414

Ion Ratio Lower Upper

95 100

174 109.7 0.0 178.2

176 108.7 0.0 173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY014501.D

Acq: 29 Jun 2023 17:13

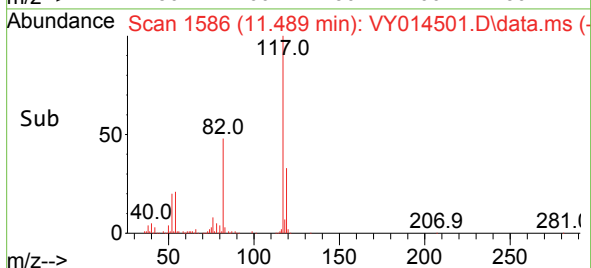
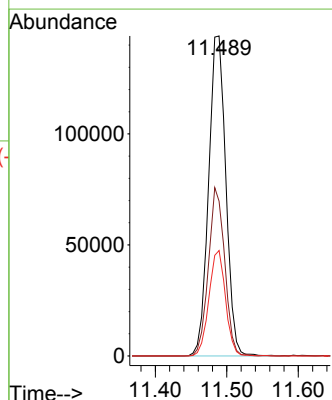
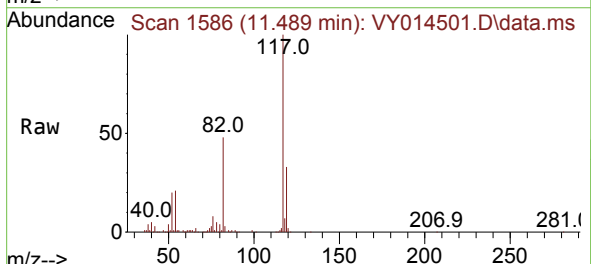
Tgt Ion: 117 Resp: 241143

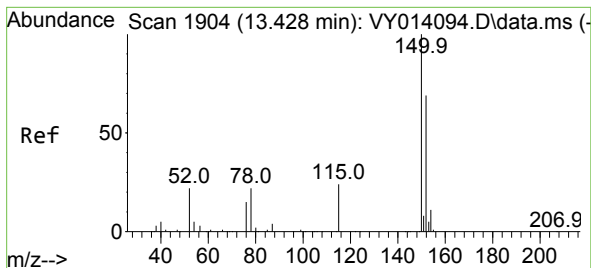
Ion Ratio Lower Upper

117 100

82 48.4 43.4 65.0

119 32.9 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1904

Delta R.T. -0.006 min

Lab File: VY014501.D

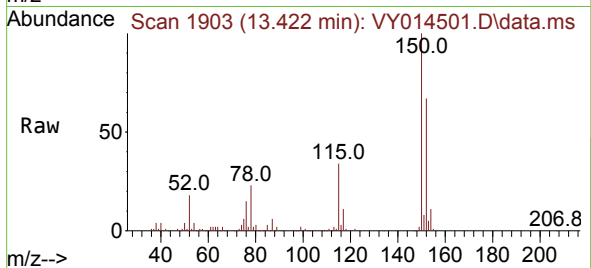
Acq: 29 Jun 2023 17:13

Instrument :

MSVOA\_Y

ClientSampleId :

CMC-EME-TOPSOIL-012



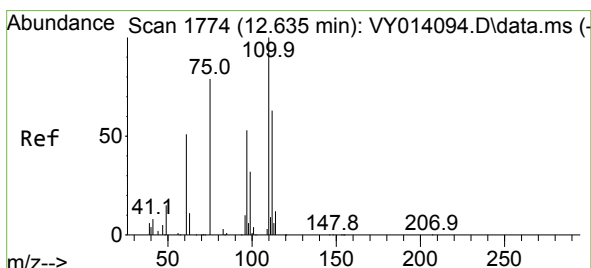
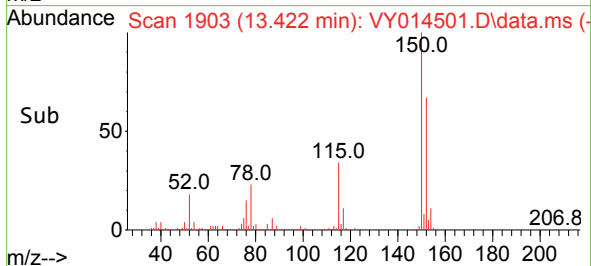
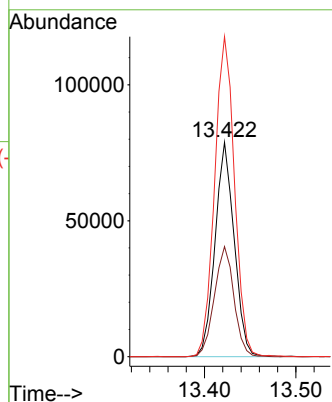
Tgt Ion:152 Resp: 114725

Ion Ratio Lower Upper

152 100

115 52.5 28.8 86.5

150 155.3 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 41.836 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.158 min

Lab File: VY014501.D

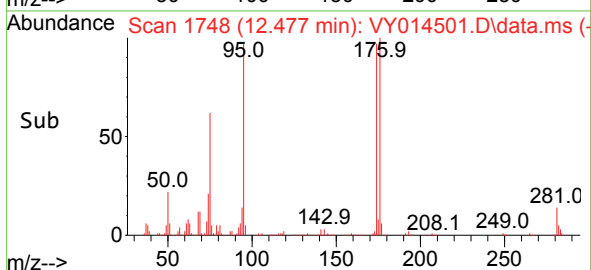
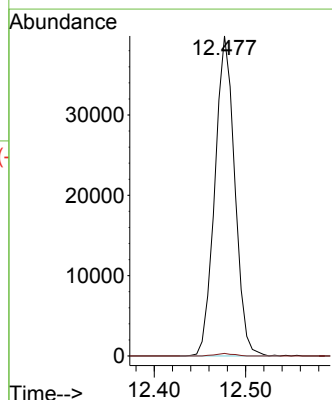
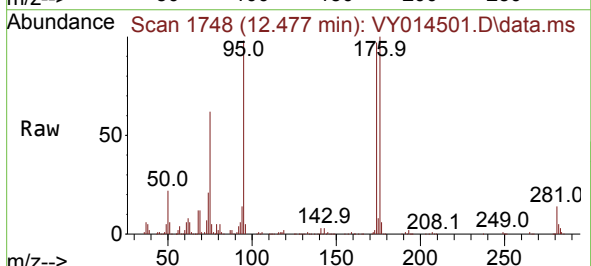
Acq: 29 Jun 2023 17:13

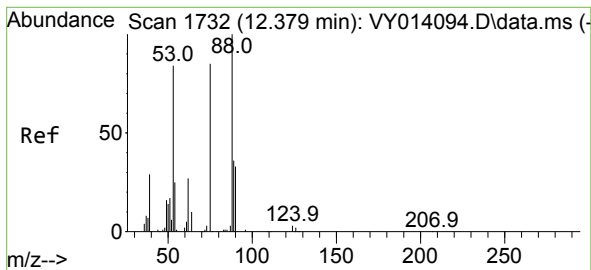
Tgt Ion: 75 Resp: 60208

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 95.248 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.098 min  
 Lab File: VY014501.D  
 Acq: 29 Jun 2023 17:13

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CMC-EME-TOPSOIL-012

Tgt Ion: 75 Resp: 60208  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 77.8 116.8#  
 89 0.1 37.4 56.0#

