

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061223\  
 Data File : VY014120.D  
 Acq On : 12 Jun 2023 15:09  
 Operator : KP/MD  
 Sample : 03109-03  
 Misc : 4.60g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SP-1-GRAB

Quant Time: Jun 13 05:42:39 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

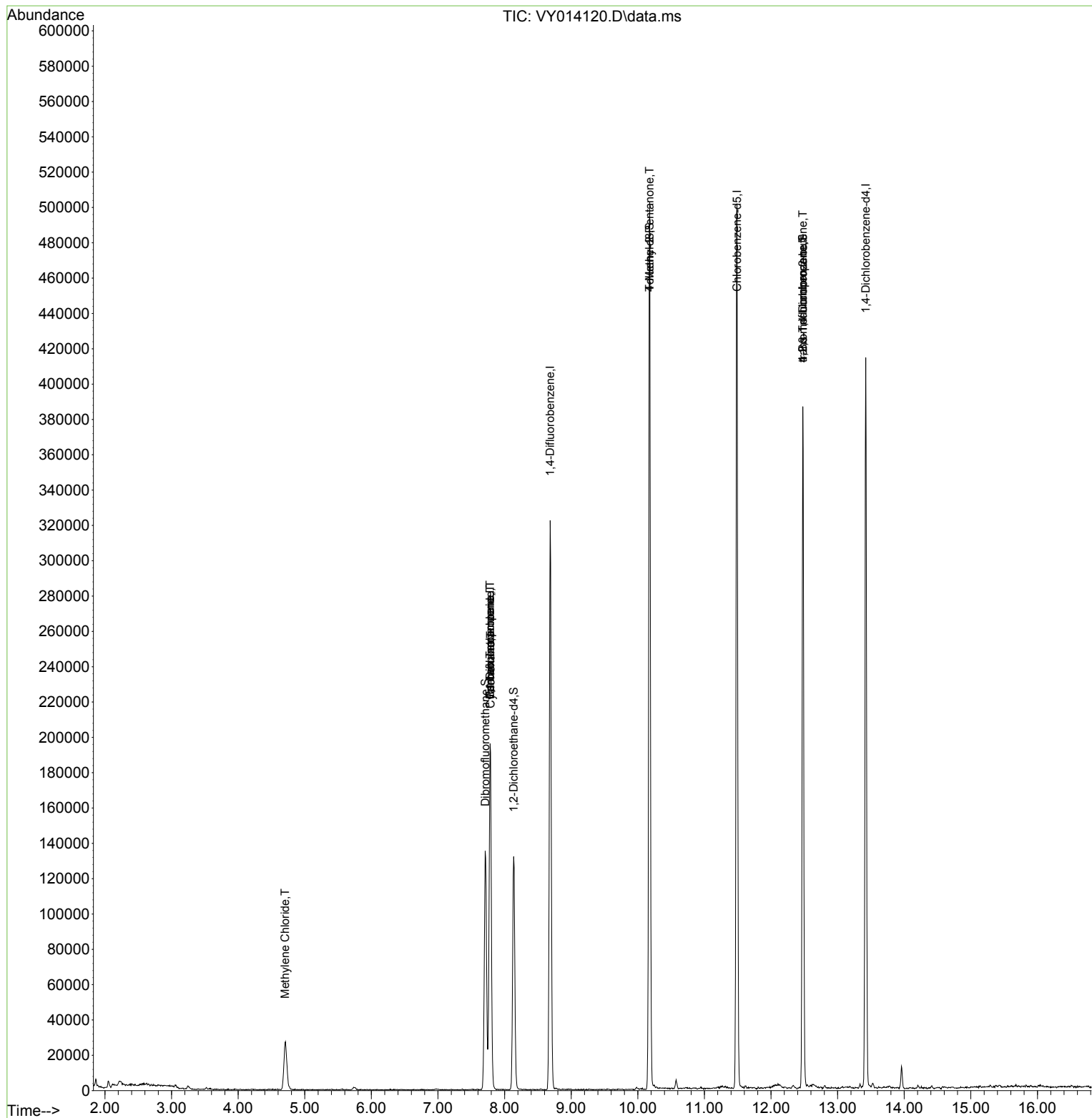
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783     | 168   | 156118   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685     | 114   | 265485   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489    | 117   | 269293   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422    | 152   | 108724   | 50.000    | ug/l       | 0.00     |
|                               |           |       |          |           |            |          |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136     | 65    | 113249   | 52.093    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 104.180% |          |
| 35) Dibromofluoromethane      | 7.710     | 113   | 91686    | 48.698    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 97.400%  |          |
| 50) Toluene-d8                | 10.179    | 98    | 326275   | 46.353    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery  | = 92.700%  |          |
| 62) 4-Bromofluorobenzene      | 12.477    | 95    | 108401   | 43.353    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery  | = 86.700%  |          |
|                               |           |       |          |           |            |          |
| Target Compounds              |           |       |          |           |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.972     | 59    | 113      | Below Cal | #          | 89       |
| 13) Acrolein                  | 3.692     | 56    | 27       | Below Cal | #          | 14       |
| 20) Methylene Chloride        | 4.704     | 84    | 19842    | 6.355     | ug/l       | 90       |
| 31) Cyclohexane               | 7.789     | 56    | 3582     | 1.230     | ug/l #     | 44       |
| 36) 1,1-Dichloropropene       | 7.783     | 75    | 11883    | 4.048     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.783     | 117   | 15762    | 4.653     | ug/l #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.179    | 43    | 2248     | 1.166     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 60211    | 42.211    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 60211    | 91.244    | ug/l #     | 11       |
| -----                         |           |       |          |           |            |          |

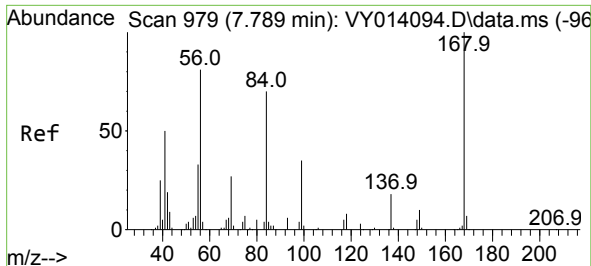
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :  
SP-1-GRAB

Quant Time: Jun 13 05:42:39 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

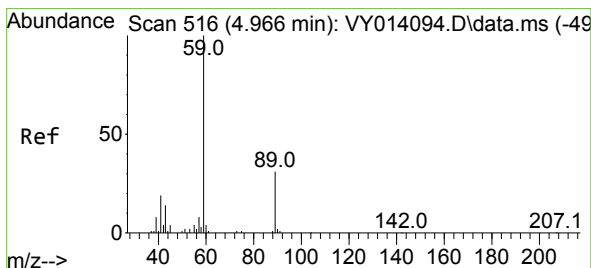
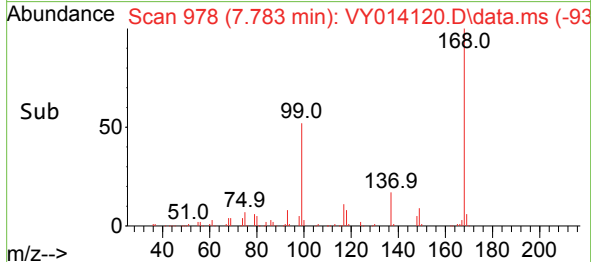
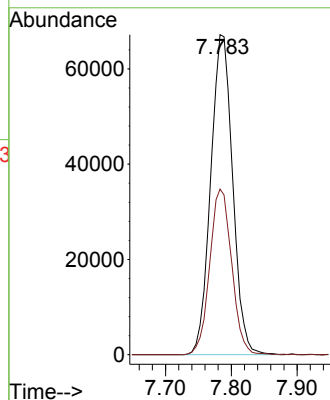
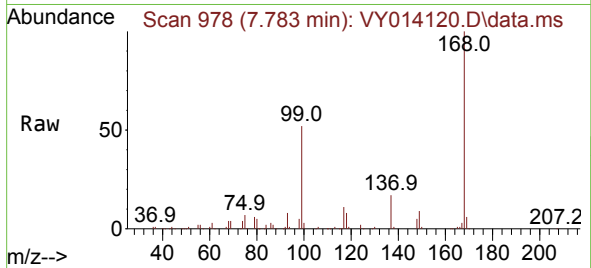




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

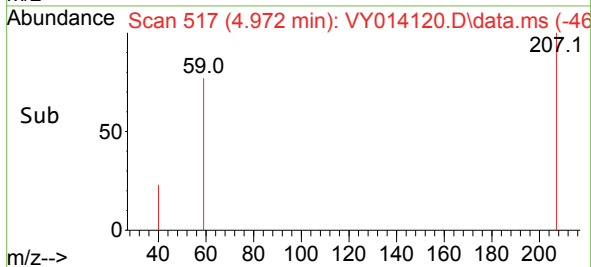
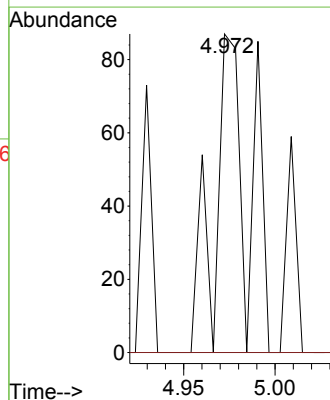
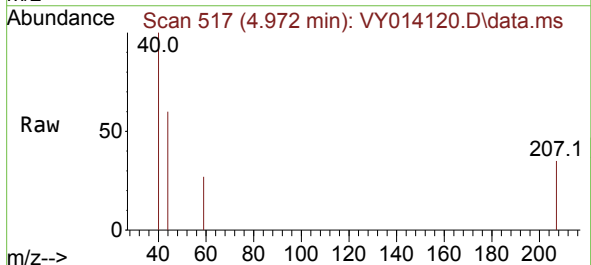
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-1-GRAB

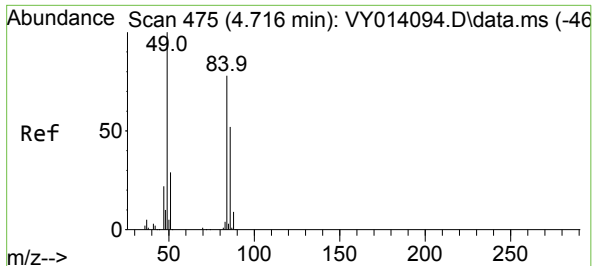
Tgt Ion:168 Resp: 156118  
Ion Ratio Lower Upper  
168 100  
99 51.7 43.4 65.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.972 min Scan# 517  
Delta R.T. 0.006 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

Tgt Ion: 59 Resp: 113  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#



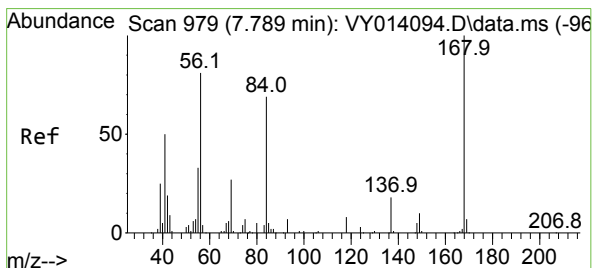
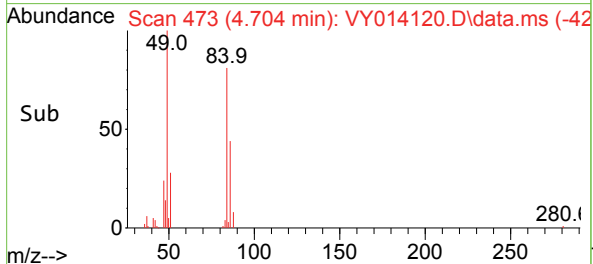
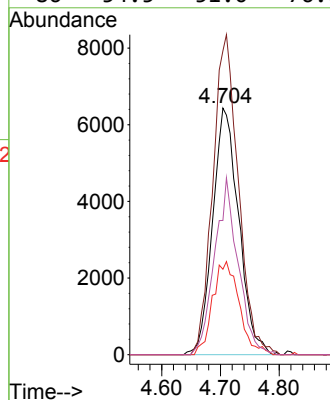
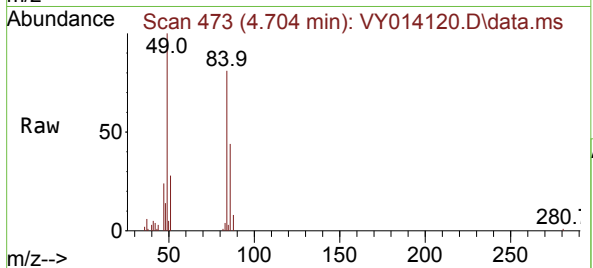


#20  
Methylene Chloride  
Concen: 6.355 ug/l  
RT: 4.704 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-1-GRAB

Tgt Ion: 84 Resp: 19842

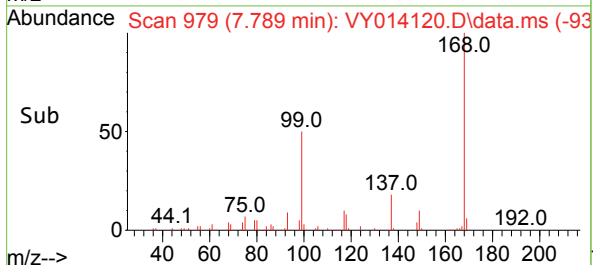
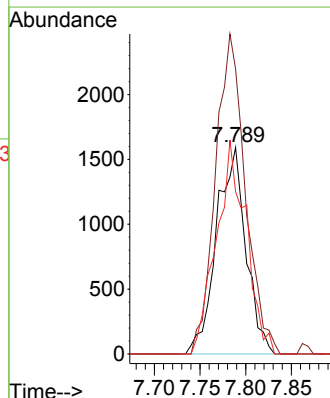
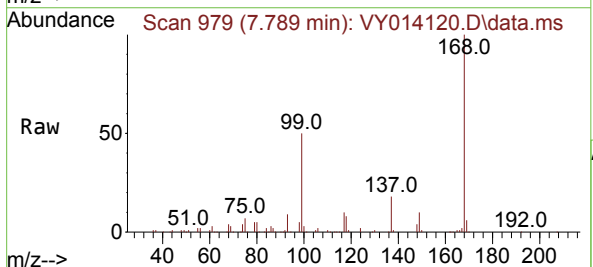
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 123.2 | 106.9 | 160.3 |
| 51  | 34.6  | 33.2  | 49.8  |
| 86  | 54.5  | 51.0  | 76.6  |

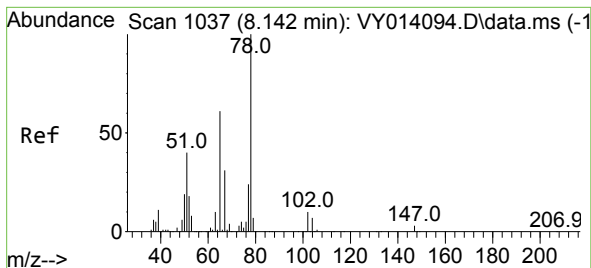


#31  
Cyclohexane  
Concen: 1.230 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.000 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

Tgt Ion: 56 Resp: 3582

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 138.0 | 27.8  | 41.6# |
| 84  | 78.6  | 66.4  | 99.6  |





#33

1,2-Dichloroethane-d4

Concen: 52.093 ug/l

RT: 8.136 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY014120.D

Acq: 12 Jun 2023 15:09

Instrument :

MSVOA\_Y

ClientSampleId :

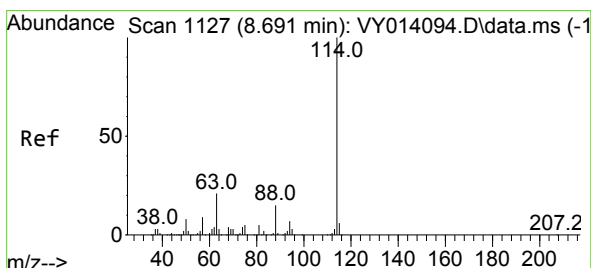
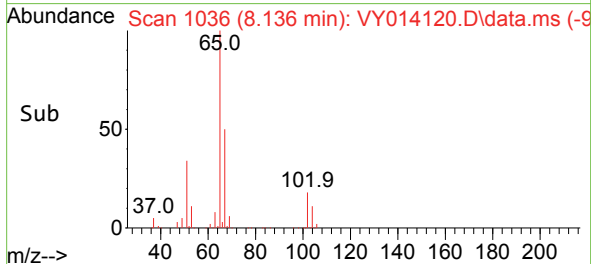
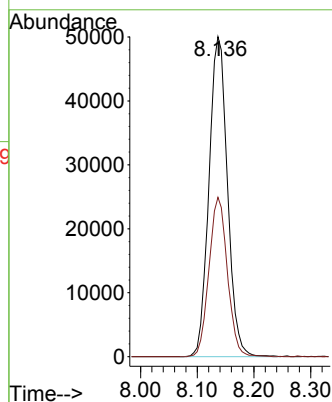
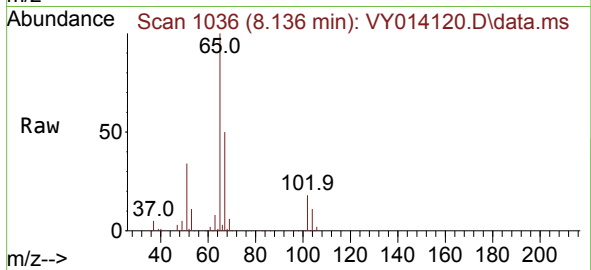
SP-1-GRAB

Tgt Ion: 65 Resp: 113249

Ion Ratio Lower Upper

65 100

67 49.5 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: VY014120.D

Acq: 12 Jun 2023 15:09

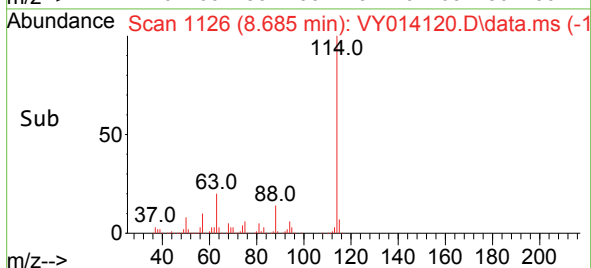
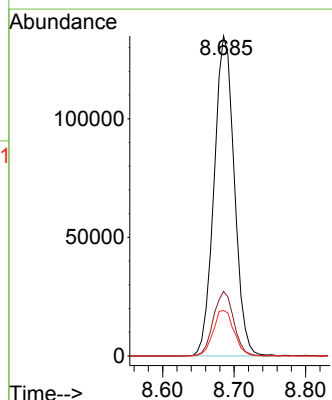
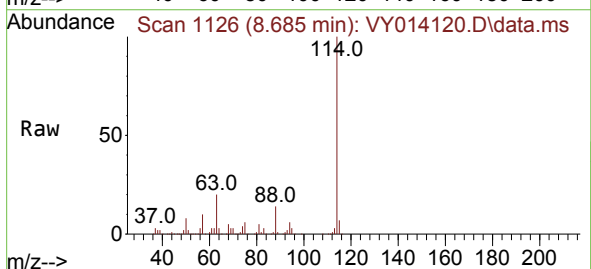
Tgt Ion:114 Resp: 265485

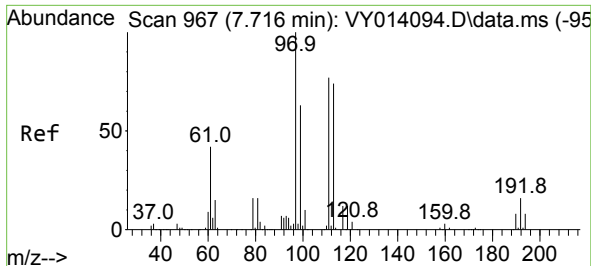
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.4

88 14.2 0.0 30.6

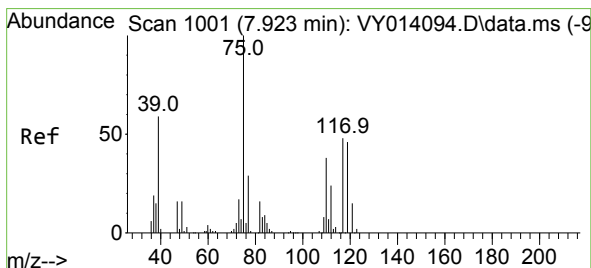
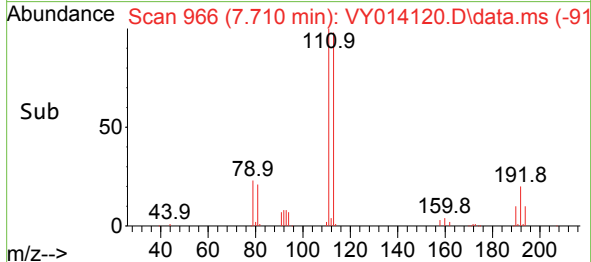
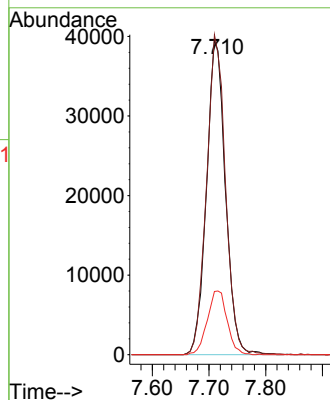
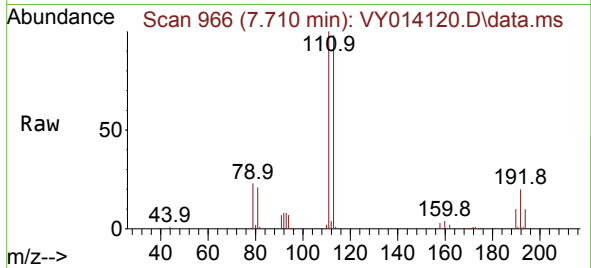




#35  
Dibromofluoromethane  
Concen: 48.698 ug/l  
RT: 7.710 min Scan# 916  
Delta R.T. -0.006 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

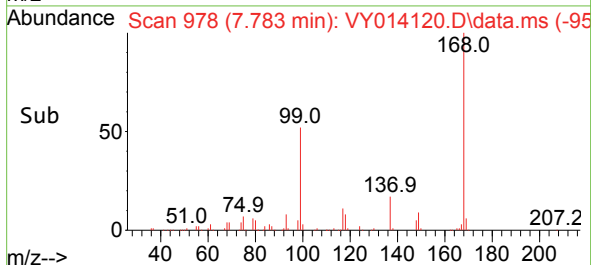
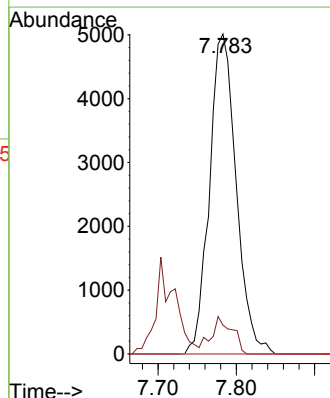
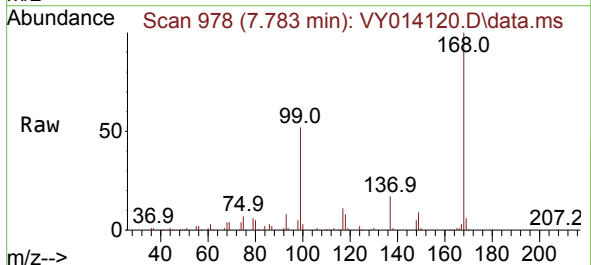
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-1-GRAB

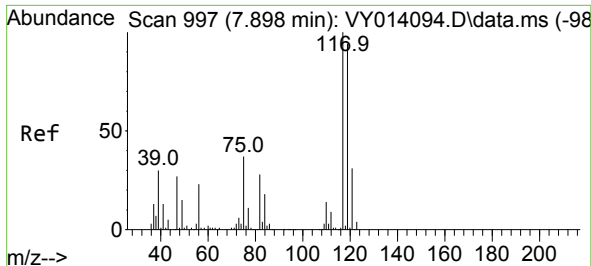
Tgt Ion:113 Resp: 91686  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.3 121.9  
192 21.2 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.048 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

Tgt Ion: 75 Resp: 11883  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.8 53.5#  
77 0.0 24.4 36.6#

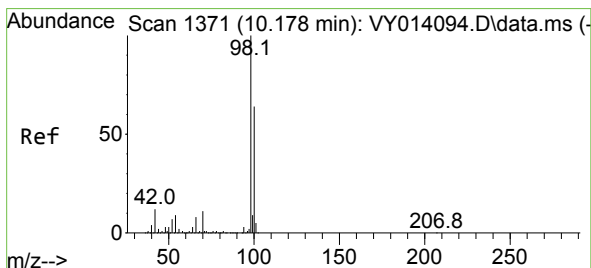
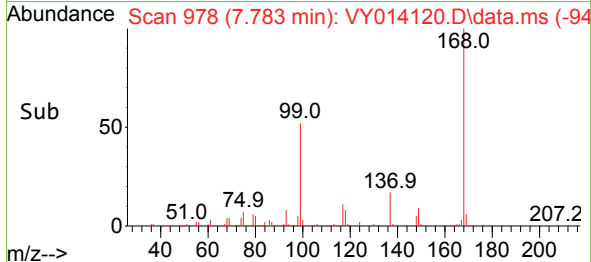
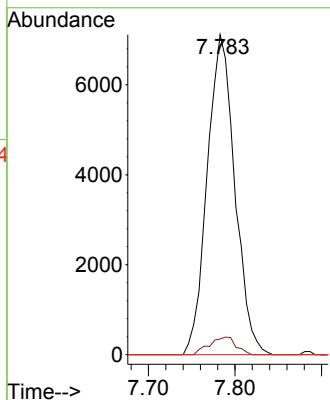
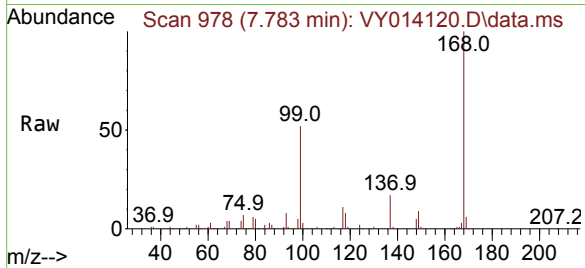




#38  
Carbon Tetrachloride  
Concen: 4.653 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.115 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

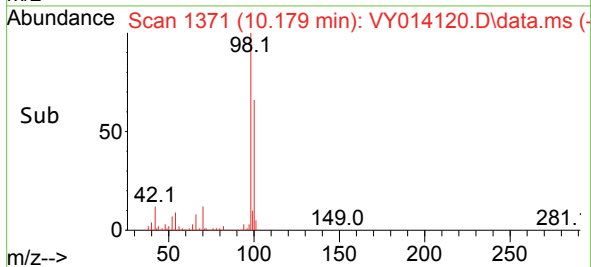
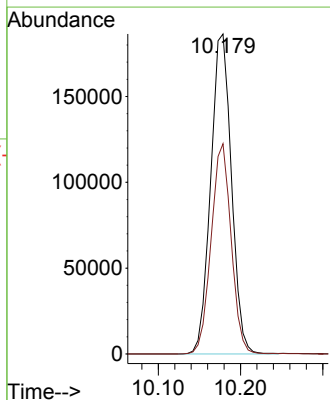
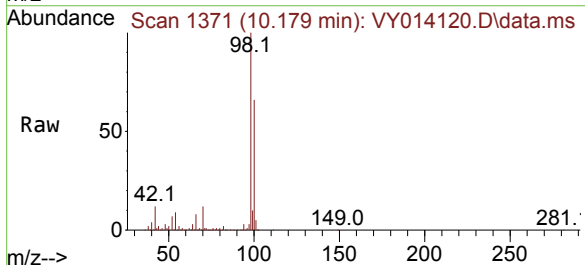
Instrument :  
MSVOA\_Y  
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SP-1-GRAB

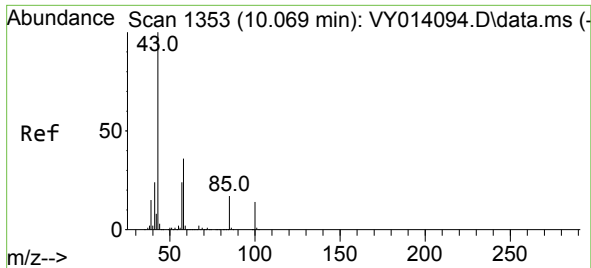
Tgt Ion:117 Resp: 15762  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 46.353 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.001 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

Tgt Ion: 98 Resp: 326275  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.1 75.1

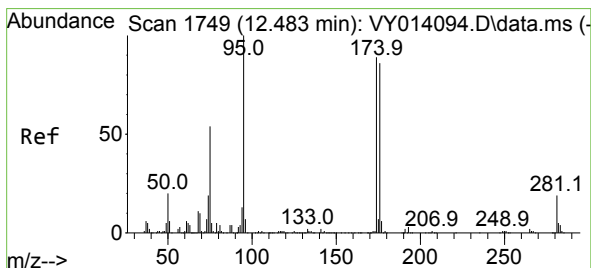
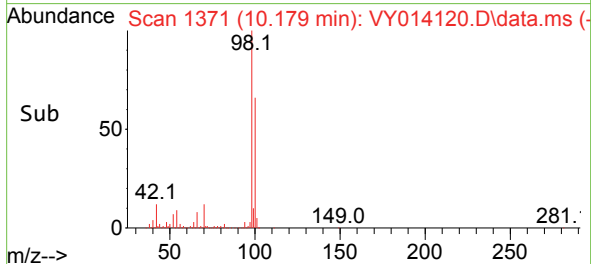
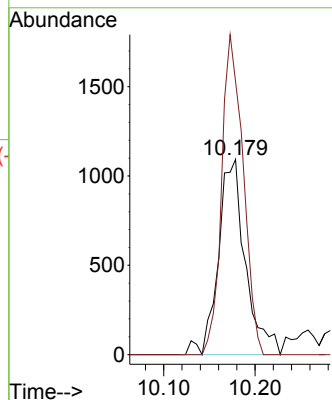
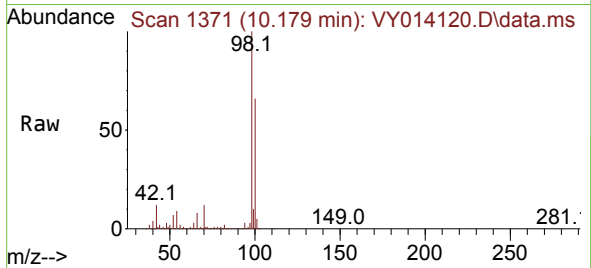




#51  
4-Methyl-2-Pentanone  
Concen: 1.166 ug/l  
RT: 10.179 min Scan# 1353  
Delta R.T. 0.110 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

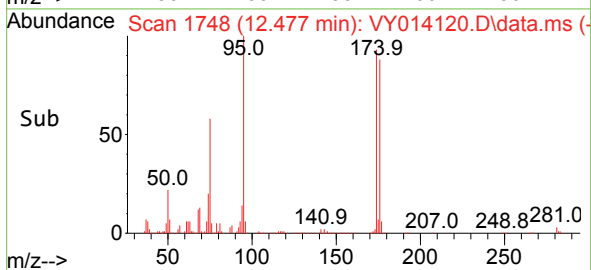
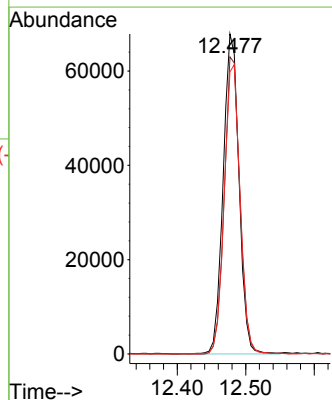
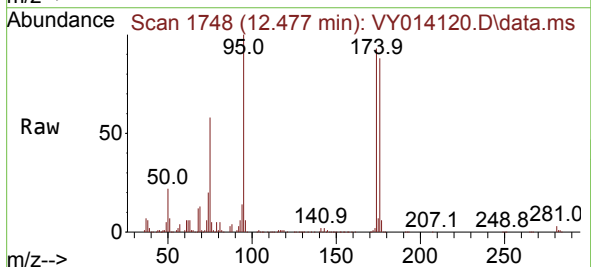
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-1-GRAB

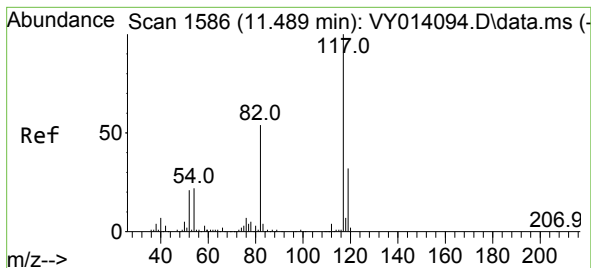
Tgt Ion: 43 Resp: 2248  
Ion Ratio Lower Upper  
43 100  
58 130.4 29.0 43.6#



#62  
4-Bromofluorobenzene  
Concen: 43.353 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY014120.D  
Acq: 12 Jun 2023 15:09

Tgt Ion: 95 Resp: 108401  
Ion Ratio Lower Upper  
95 100  
174 91.4 0.0 178.2  
176 90.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014120.D

Acq: 12 Jun 2023 15:09

Instrument :

MSVOA\_Y

ClientSampleId :

SP-1-GRAB

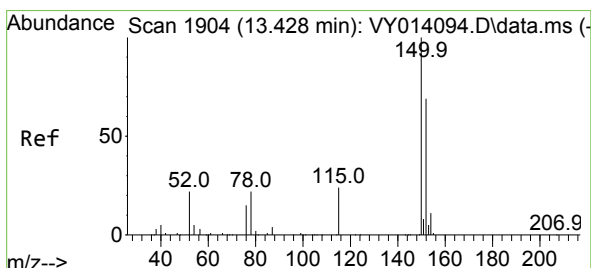
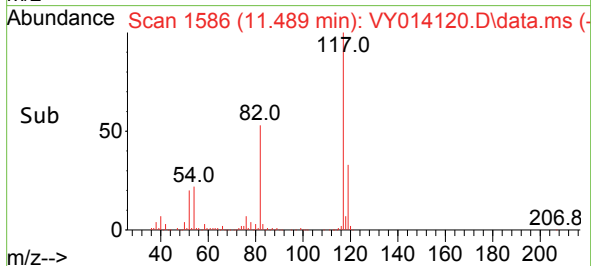
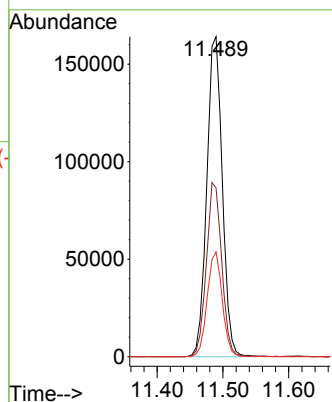
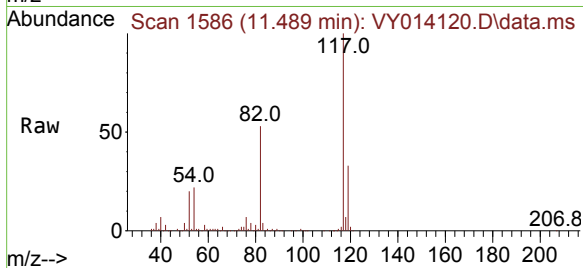
Tgt Ion:117 Resp: 269293

Ion Ratio Lower Upper

117 100

82 52.7 43.4 65.0

119 32.8 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY014120.D

Acq: 12 Jun 2023 15:09

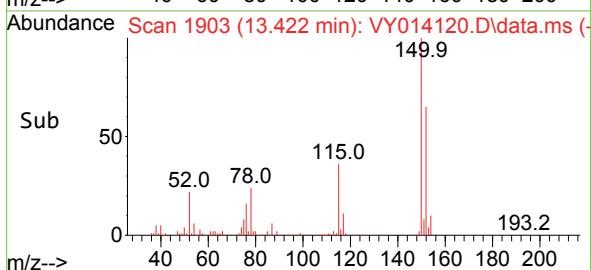
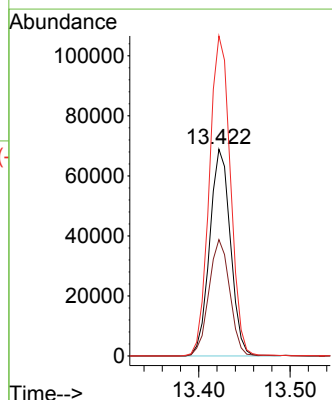
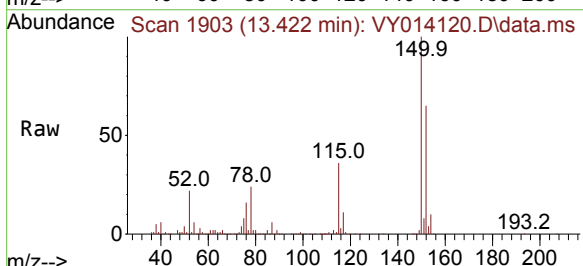
Tgt Ion:152 Resp: 108724

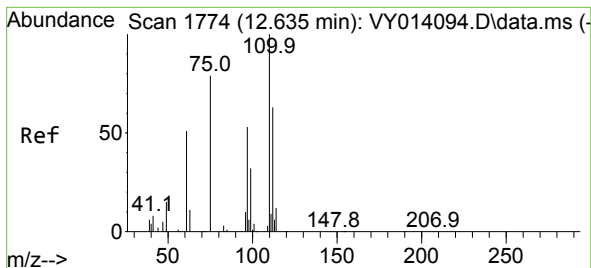
Ion Ratio Lower Upper

152 100

115 56.6 28.8 86.5

150 157.2 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 42.211 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.158 min

Lab File: VY014120.D

Acq: 12 Jun 2023 15:09

Instrument :

MSVOA\_Y

ClientSampleId :

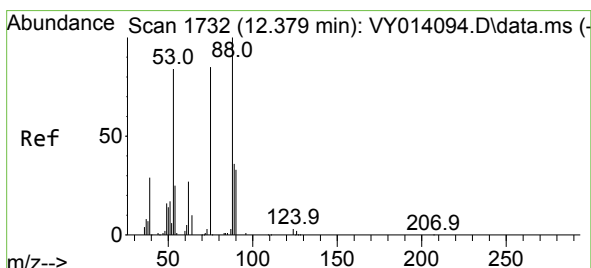
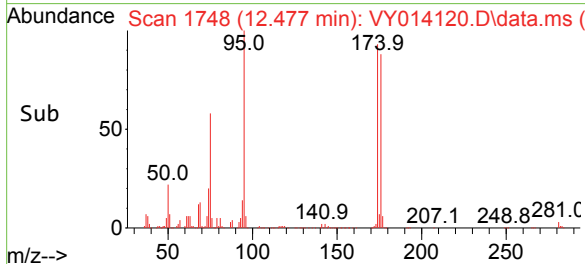
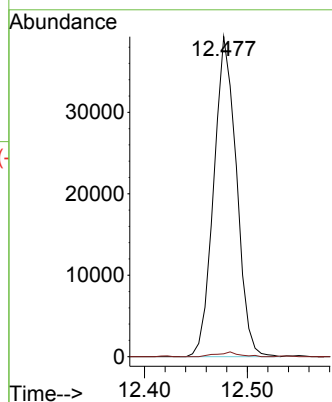
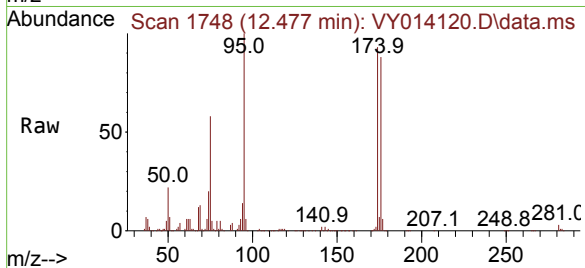
SP-1-GRAB

Tgt Ion: 75 Resp: 60211

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 91.244 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY014120.D

Acq: 12 Jun 2023 15:09

Tgt Ion: 75 Resp: 60211

Ion Ratio Lower Upper

75 100

53 0.5 77.8 116.8#

89 0.0 37.4 56.0#

