

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121623\  
 Data File : VY016672.D  
 Acq On : 16 Dec 2023 16:26  
 Operator : SY/MD  
 Sample : 05758-37RE  
 Misc : 4.12g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Dec 18 00:41:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y121523S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 16 00:39:52 2023  
 Response via : Initial Calibration

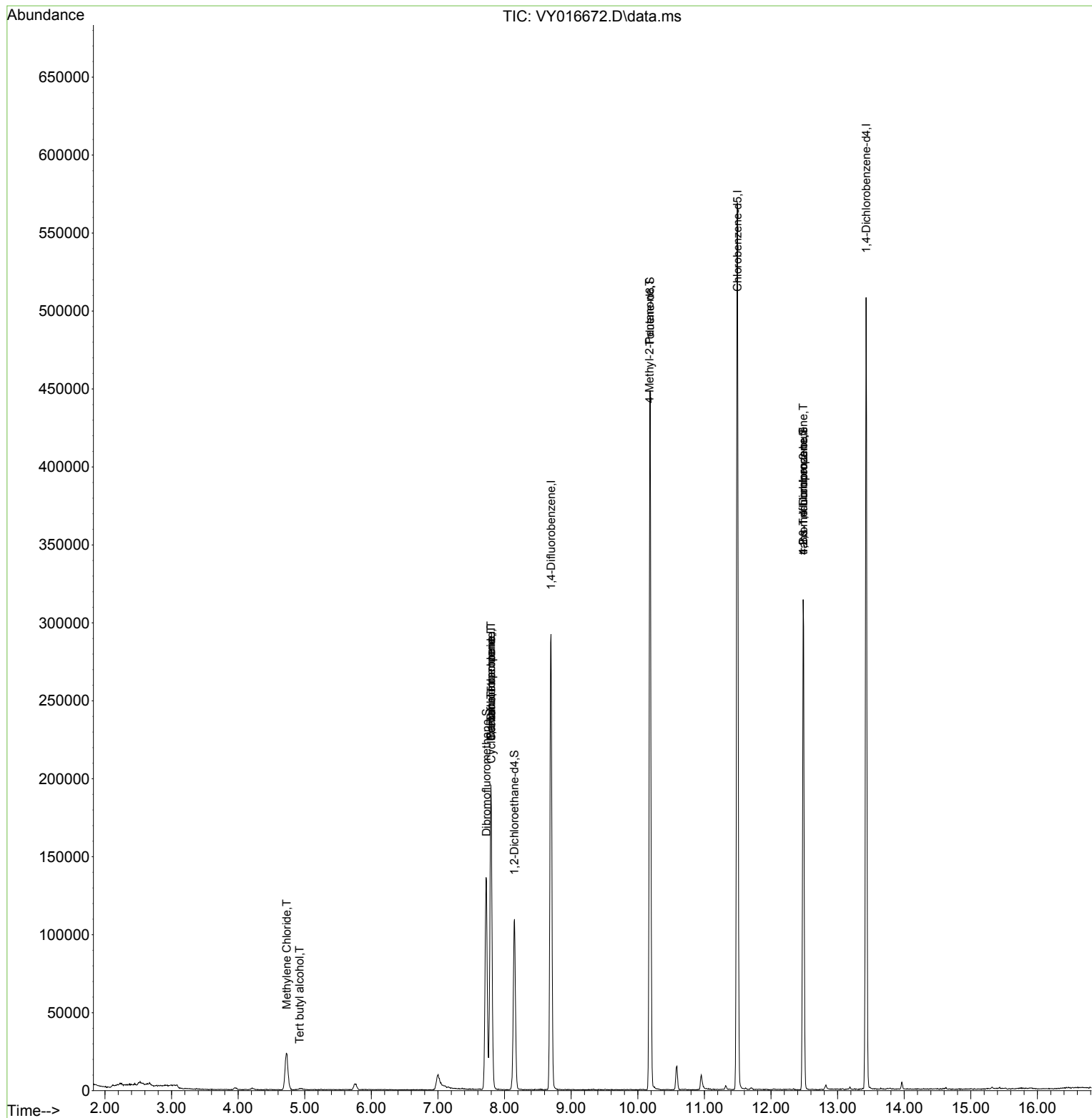
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 155530   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 266334   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 329327   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 134153   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 82939    | 65.141    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 130.280% |          |
| 35) Dibromofluoromethane      | 7.728  | 113   | 95086    | 66.559    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 133.120% |          |
| 50) Toluene-d8                | 10.185 | 98    | 300421   | 53.199    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 106.400% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 92722    | 50.646    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 101.300% |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.924  | 59    | 580      | 5.651     | ug/l #     | 89       |
| 13) Acrolein                  | 3.735  | 56    | 25       | Below Cal | #          | 14       |
| 16) Acetone                   | 3.954  | 43    | 2340     | Below Cal |            | 95       |
| 20) Methylene Chloride        | 4.729  | 84    | 18693    | 7.224     | ug/l #     | 83       |
| 25) 2-Butanone                | 7.009  | 43    | 1011     | Below Cal |            | 98       |
| 31) Cyclohexane               | 7.801  | 56    | 2935     | 1.169     | ug/l #     | 3        |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 12103    | 5.115     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 14640    | 6.160     | ug/l #     | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.179 | 43    | 1192     | 1.268     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 48159    | 39.191    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 48159    | 89.560    | ug/l #     | 11       |
| 95) Naphthalene               | 15.239 | 128   | 543      | Below Cal | #          | 69       |
| -----                         |        |       |          |           |            |          |

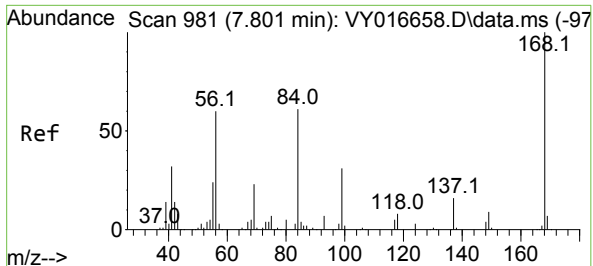
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Dec 16 00:39:52 2023  
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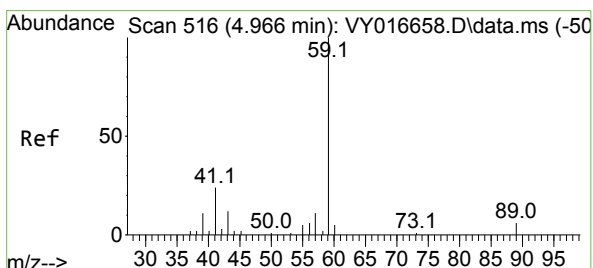
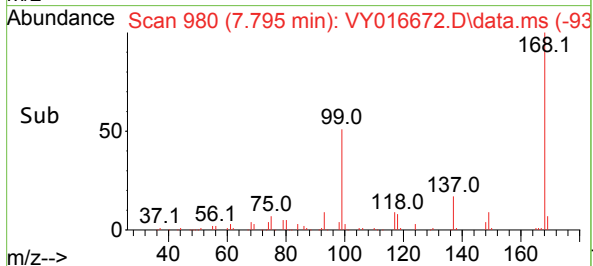
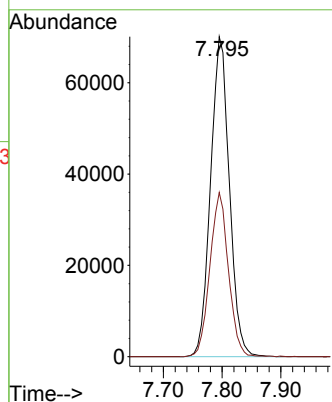
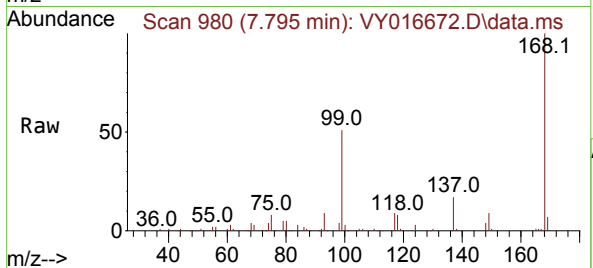




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

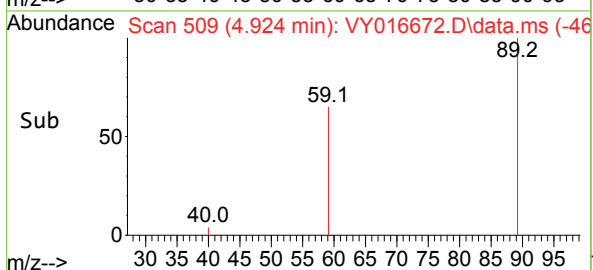
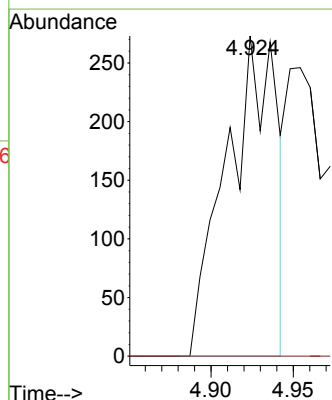
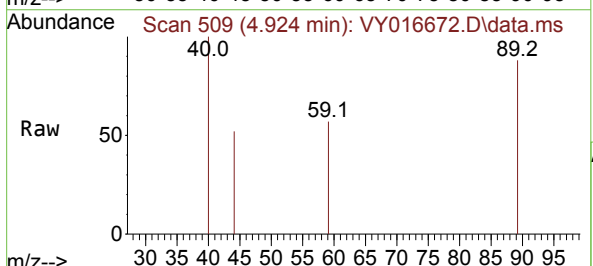
Instrument :  
MSVOA\_Y  
ClientSampleId :

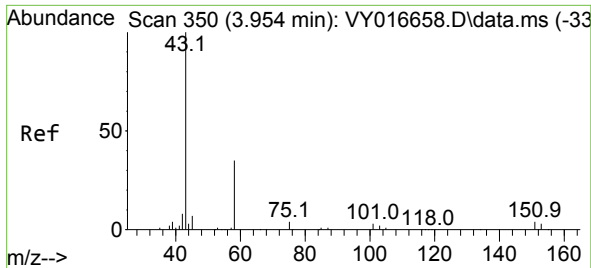
Tgt Ion:168 Resp: 155530  
Ion Ratio Lower Upper  
168 100  
99 51.3 43.4 65.0



#11  
Tert butyl alcohol  
Concen: 5.651 ug/l  
RT: 4.924 min Scan# 509  
Delta R.T. -0.042 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

Tgt Ion: 59 Resp: 580  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#





#16

Acetone

Concen: Below Cal

RT: 3.954 min Scan# 31

Delta R.T. 0.000 min

Lab File: VY016672.D

Acq: 16 Dec 2023 16:26

Instrument :

MSVOA\_Y

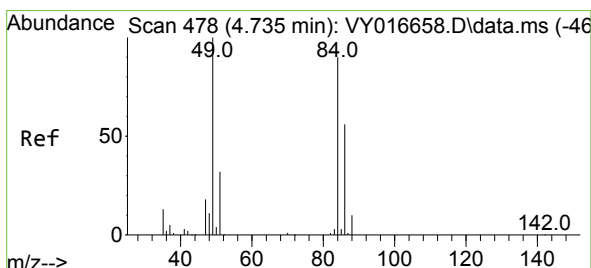
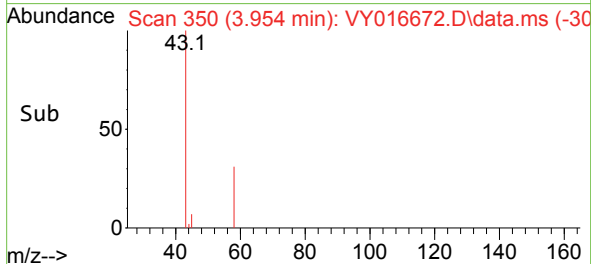
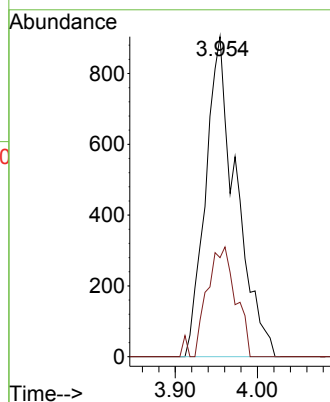
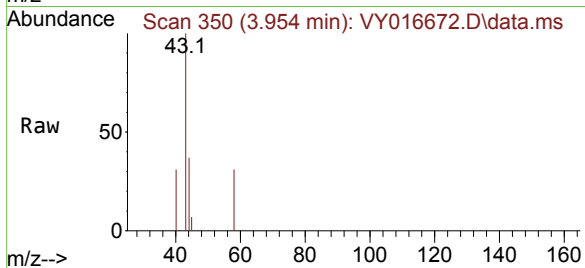
ClientSampleId :

Tgt Ion: 43 Resp: 2340

Ion Ratio Lower Upper

43 100

58 31.0 22.7 34.1



#20

Methylene Chloride

Concen: 7.224 ug/l

RT: 4.729 min Scan# 477

Delta R.T. -0.006 min

Lab File: VY016672.D

Acq: 16 Dec 2023 16:26

Tgt Ion: 84 Resp: 18693

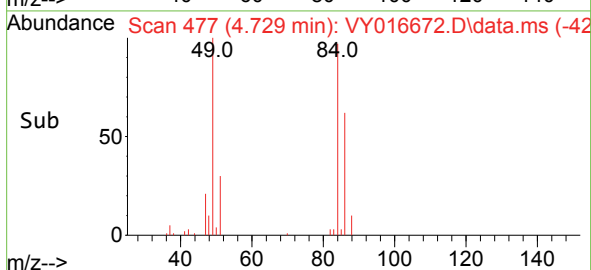
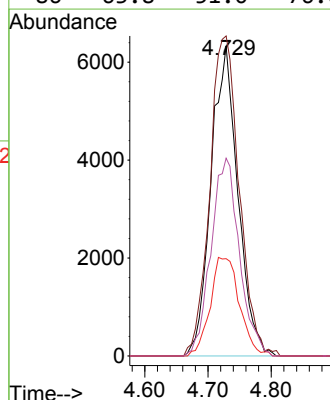
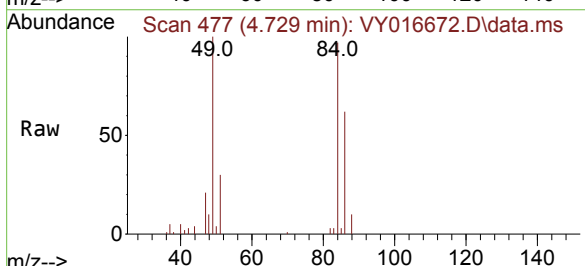
Ion Ratio Lower Upper

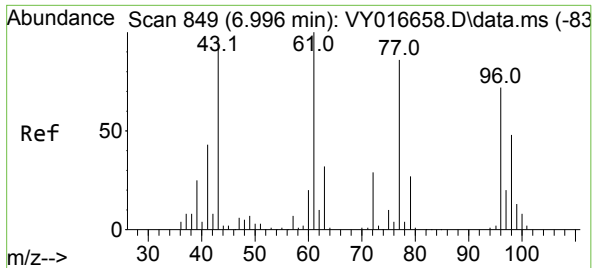
84 100

49 103.2 106.9 160.3#

51 31.4 33.2 49.8#

86 63.8 51.0 76.6





#25

2-Butanone

Concen: Below Cal

RT: 7.009 min Scan# 81

Delta R.T. 0.013 min

Lab File: VY016672.D

Acq: 16 Dec 2023 16:26

Instrument :

MSVOA\_Y

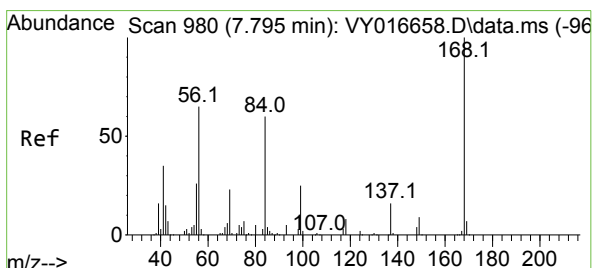
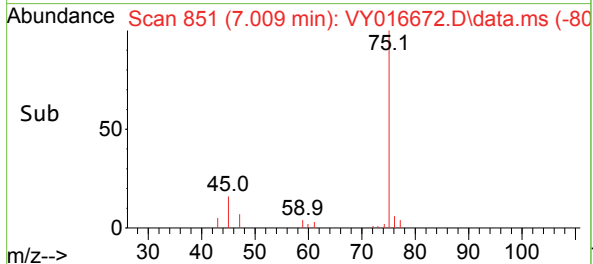
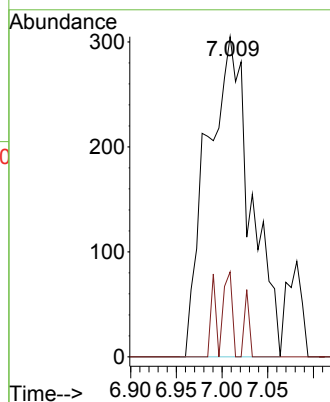
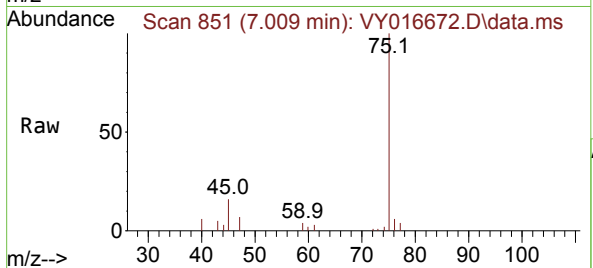
ClientSampleId :

Tgt Ion: 43 Resp: 1011

Ion Ratio Lower Upper

43 100

72 26.6 20.5 30.7



#31

Cyclohexane

Concen: 1.169 ug/l

RT: 7.801 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY016672.D

Acq: 16 Dec 2023 16:26

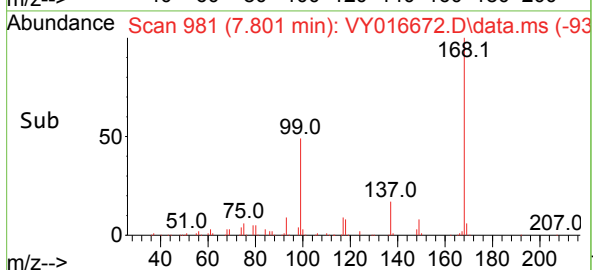
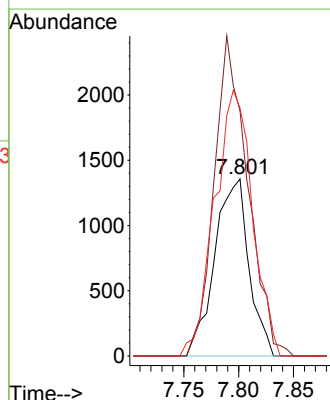
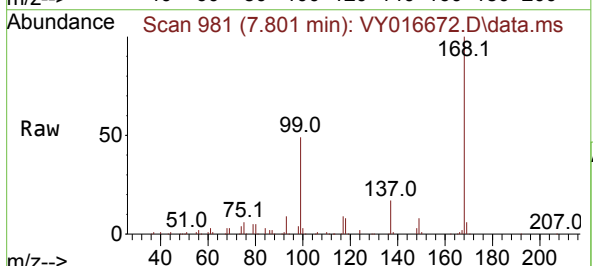
Tgt Ion: 56 Resp: 2935

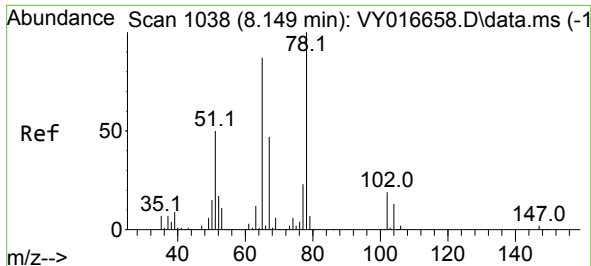
Ion Ratio Lower Upper

56 100

69 138.3 27.8 41.6#

84 140.0 66.4 99.6#

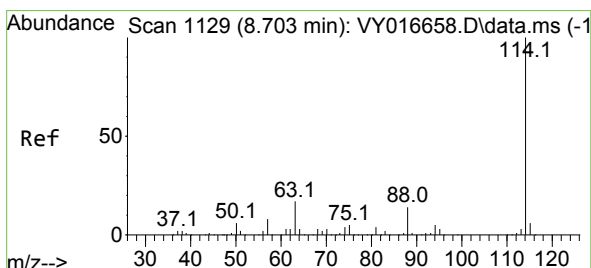
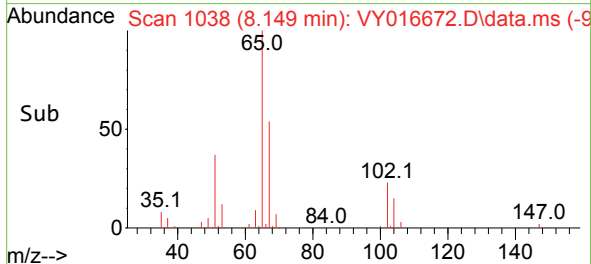
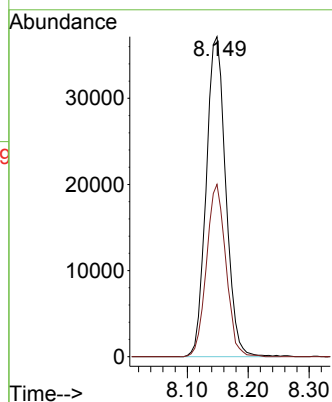
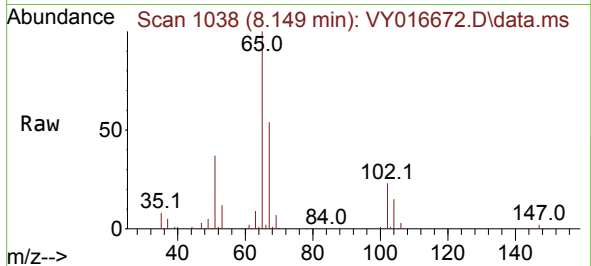




#33  
1,2-Dichloroethane-d4  
Concen: 65.141 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. -0.000 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

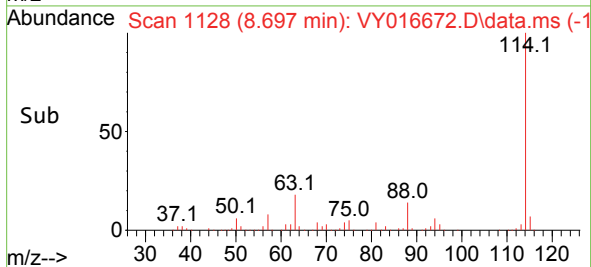
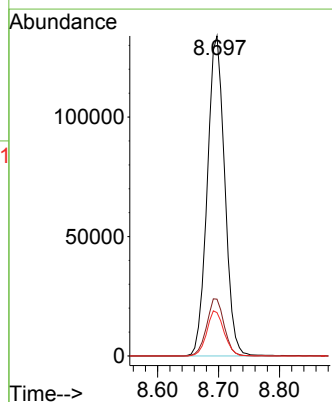
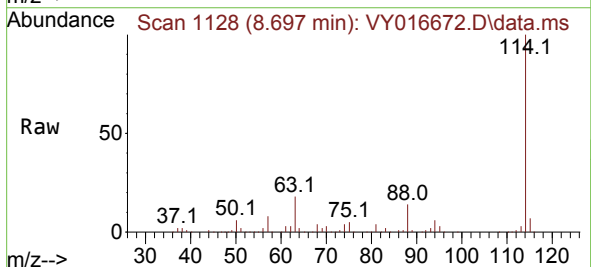
Instrument :  
MSVOA\_Y  
ClientSampleId :

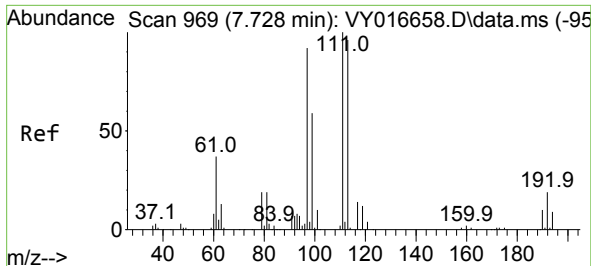
Tgt Ion: 65 Resp: 82939  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.697 min Scan# 1128  
Delta R.T. -0.006 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

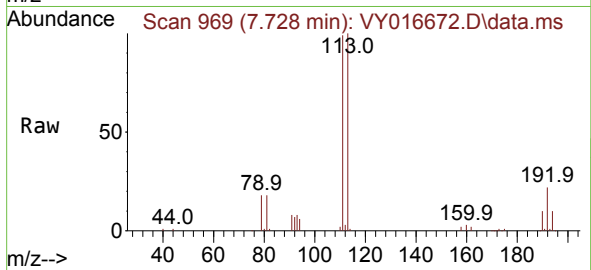
Tgt Ion: 114 Resp: 266334  
Ion Ratio Lower Upper  
114 100  
63 17.8 0.0 42.4  
88 13.6 0.0 30.6



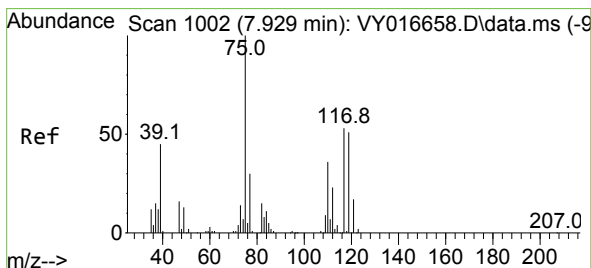
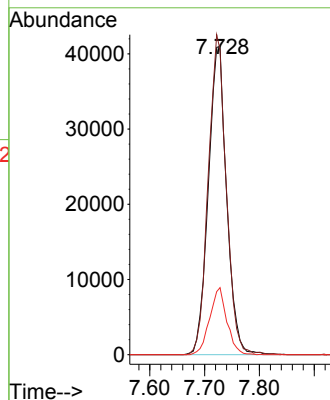
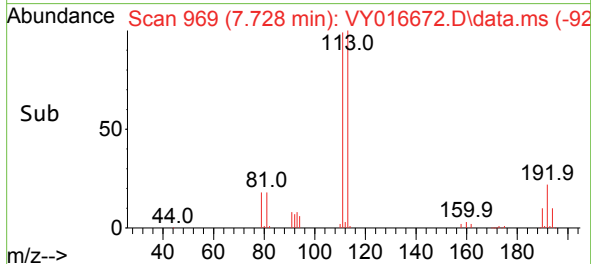


#35  
Dibromofluoromethane  
Concen: 66.559 ug/l  
RT: 7.728 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

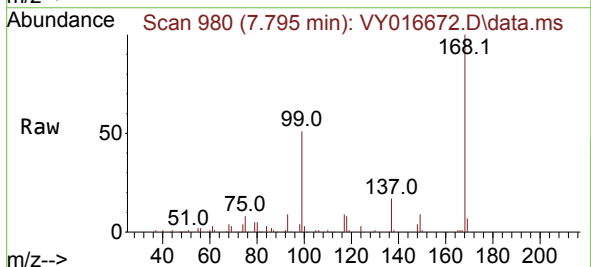
Instrument :  
MSVOA\_Y  
ClientSampleId :



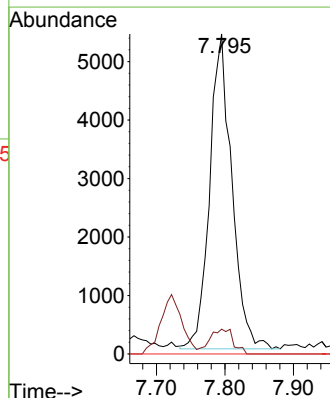
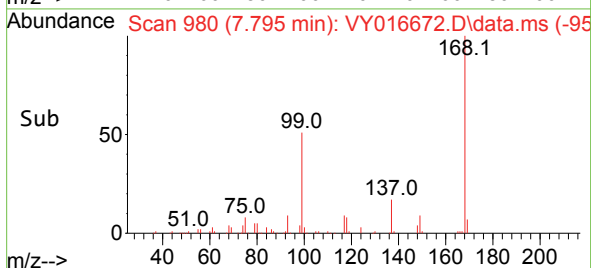
Tgt Ion:113 Resp: 95086  
Ion Ratio Lower Upper  
113 100  
111 101.6 81.3 121.9  
192 20.5 16.9 25.3

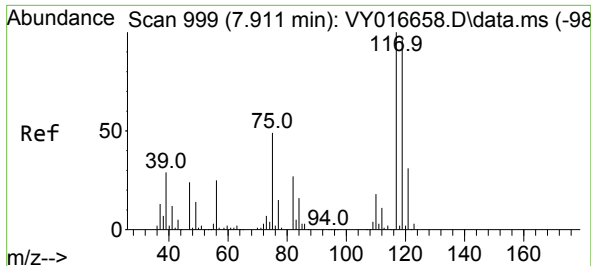


#36  
1,1-Dichloropropene  
Concen: 5.115 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.134 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26



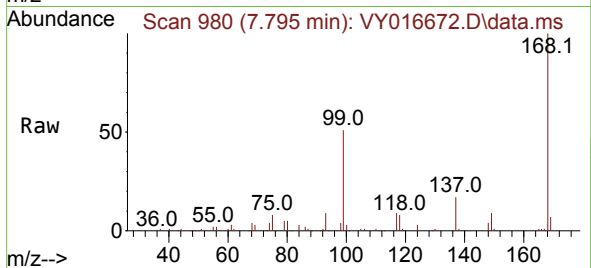
Tgt Ion: 75 Resp: 12103  
Ion Ratio Lower Upper  
75 100  
110 8.4 17.8 53.5#  
77 0.0 24.4 36.6#



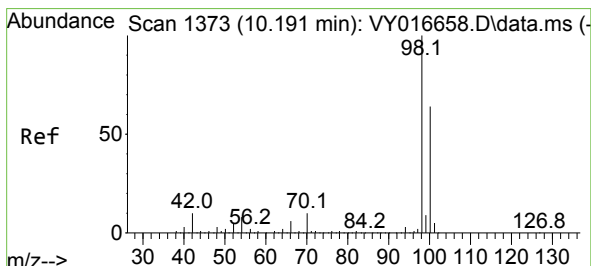
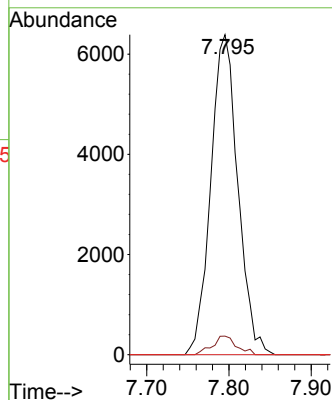
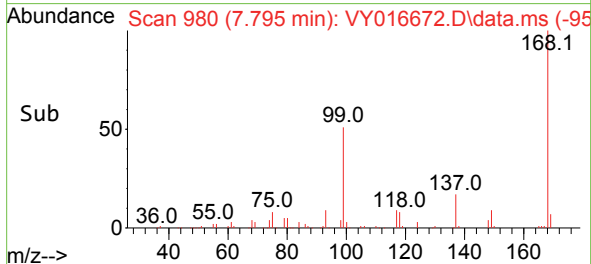


#38  
Carbon Tetrachloride  
Concen: 6.160 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

Instrument :  
MSVOA\_Y  
ClientSampleId :

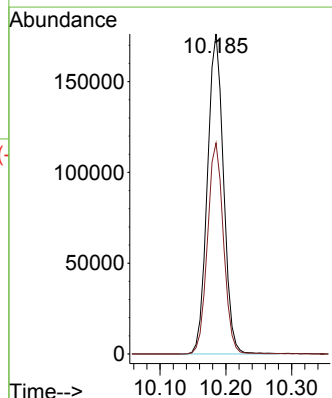
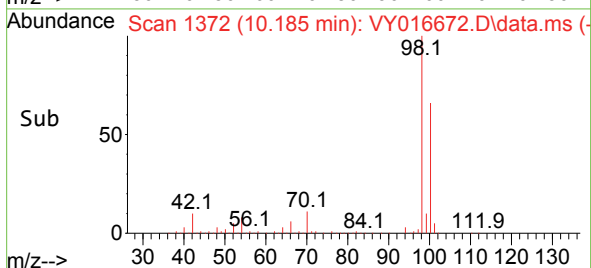
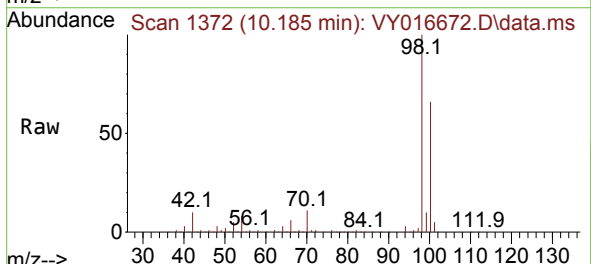


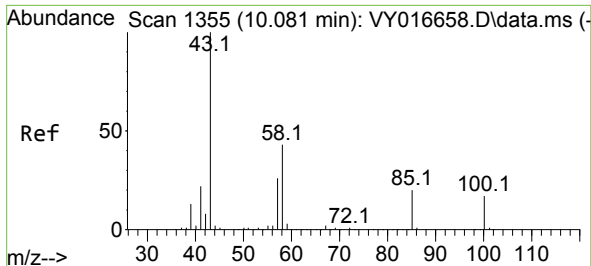
Tgt Ion:117 Resp: 14640  
Ion Ratio Lower Upper  
117 100  
119 5.8 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 53.199 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.006 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

Tgt Ion: 98 Resp: 300421  
Ion Ratio Lower Upper  
98 100  
100 65.4 50.1 75.1





#51

4-Methyl-2-Pentanone

Concen: 1.268 ug/l

RT: 10.179 min Scan# 11

Delta R.T. 0.098 min

Lab File: VY016672.D

Acq: 16 Dec 2023 16:26

Instrument :

MSVOA\_Y

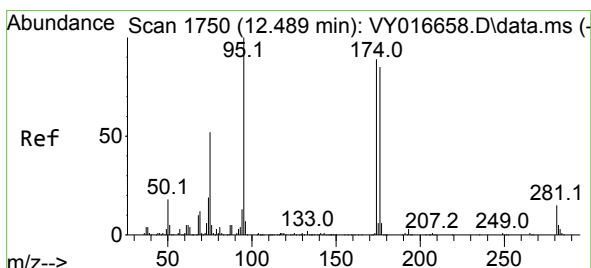
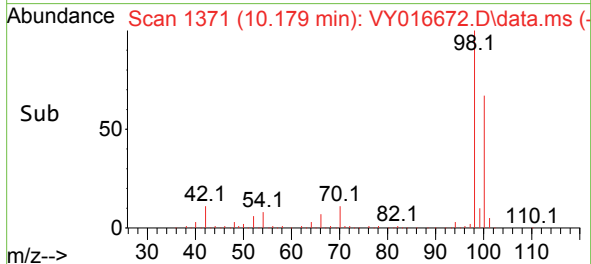
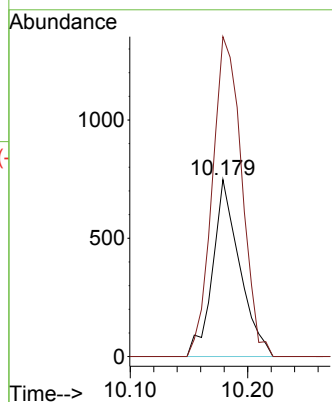
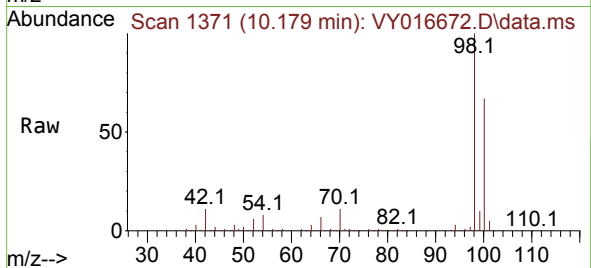
ClientSampleId :

Tgt Ion: 43 Resp: 1192

Ion Ratio Lower Upper

43 100

58 197.3 29.0 43.6#



#62

4-Bromofluorobenzene

Concen: 50.646 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.006 min

Lab File: VY016672.D

Acq: 16 Dec 2023 16:26

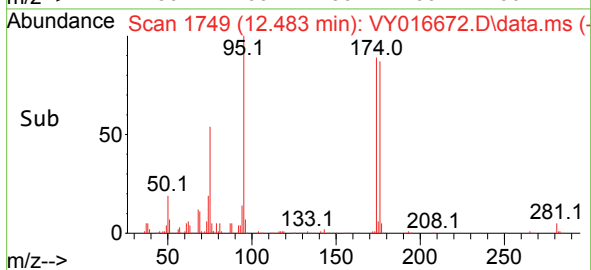
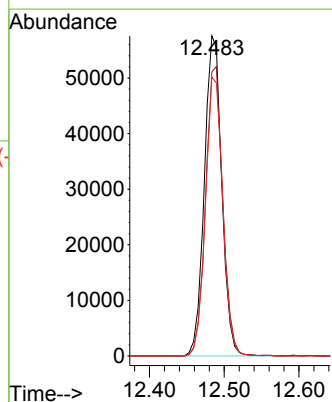
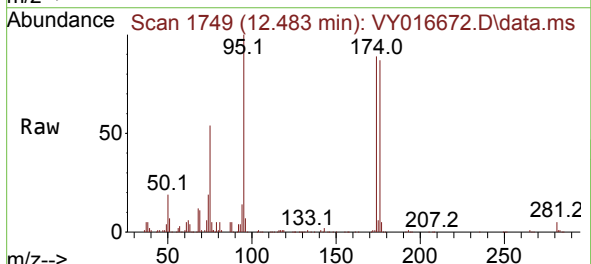
Tgt Ion: 95 Resp: 92722

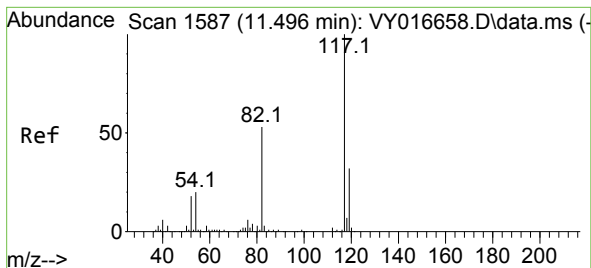
Ion Ratio Lower Upper

95 100

174 89.8 0.0 178.2

176 86.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY016672.D

Acq: 16 Dec 2023 16:26

Instrument :

MSVOA\_Y

ClientSampleId :

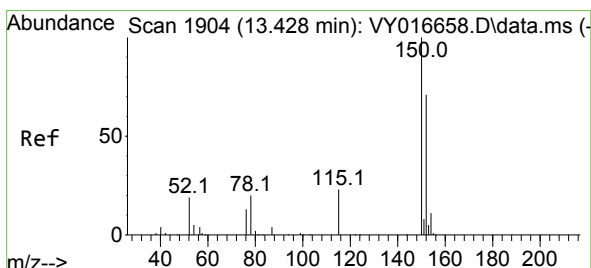
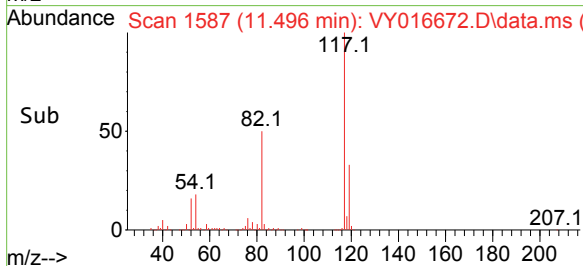
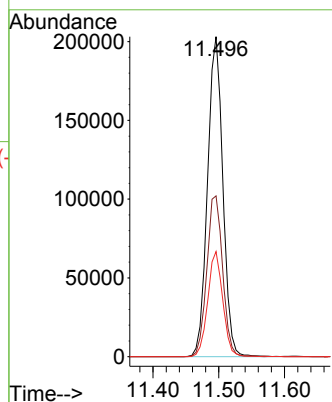
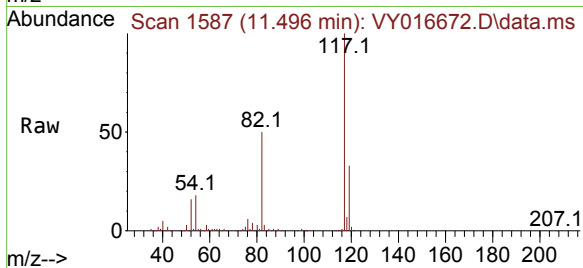
Tgt Ion:117 Resp: 329327

Ion Ratio Lower Upper

117 100

82 50.3 43.4 65.0

119 32.9 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: VY016672.D

Acq: 16 Dec 2023 16:26

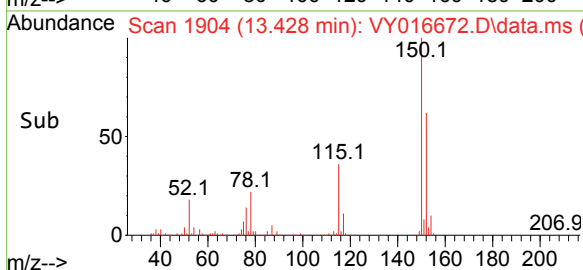
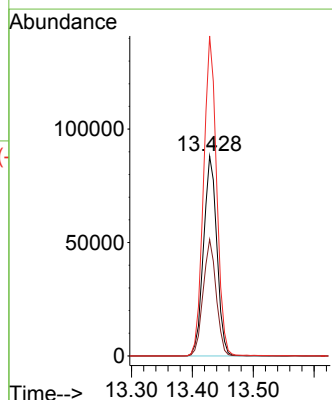
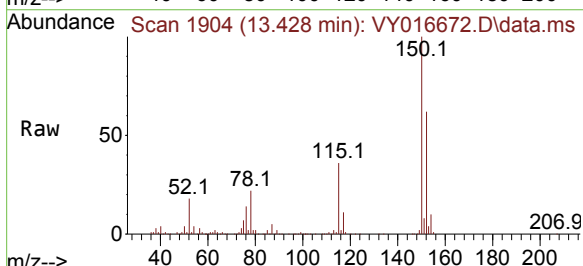
Tgt Ion:152 Resp: 134153

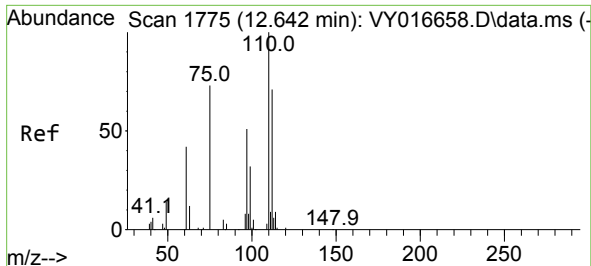
Ion Ratio Lower Upper

152 100

115 56.9 28.8 86.5

150 157.3 0.0 348.8

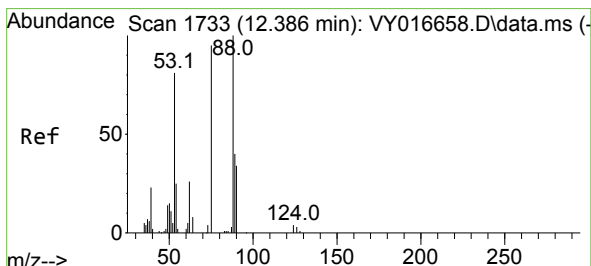
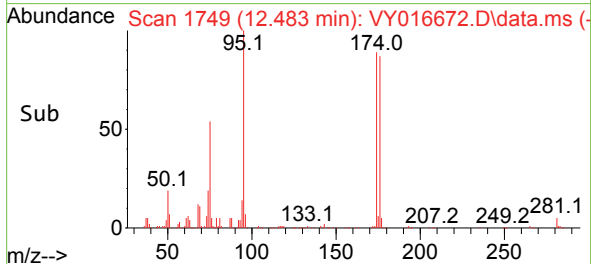
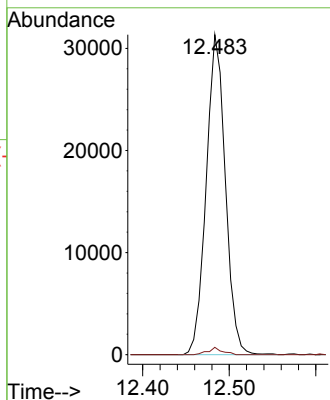
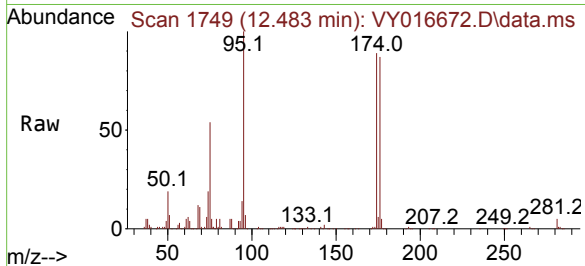




#76  
1,2,3-Trichloropropane  
Concen: 39.191 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.158 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 48159  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 89.560 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.098 min  
Lab File: VY016672.D  
Acq: 16 Dec 2023 16:26

Tgt Ion: 75 Resp: 48159  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.1 37.4 56.0#

