

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041824\  
 Data File : VY017981.D  
 Acq On : 18 Apr 2024 17:14  
 Operator : SY/MD  
 Sample : P2124-01  
 Misc : 7.47g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 20 Sample Multiplier: 1

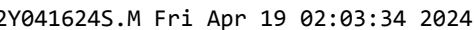
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

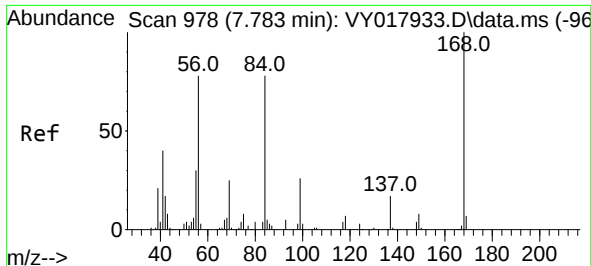
Quant Time: Apr 19 02:03:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041624S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:24:42 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 323511   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 578453   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 541197   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.434 | 152   | 250064   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 155903   | 55.69     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 111.38%  |
| 35) Dibromofluoromethane      | 7.722  | 113   | 184728   | 51.76     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 103.52%  |
| 50) Toluene-d8                | 10.185 | 98    | 672758   | 49.68     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 99.36%   |
| 62) 4-Bromofluorobenzene      | 12.489 | 95    | 228795   | 54.56     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 109.12%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.936  | 59    | 595      | Below Cal | #      | 88       |
| 13) Acrolein                  | 3.729  | 56    | 356      | 1.63      | ug/l # | 66       |
| 16) Acetone                   | 3.948  | 43    | 17071    | 30.86     | ug/l   | 95       |
| 20) Methylene Chloride        | 4.716  | 84    | 21939    | 5.85      | ug/l   | 97       |
| 25) 2-Butanone                | 6.990  | 43    | 4797     | 5.90      | ug/l   | 89       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 21808    | 4.20      | ug/l # | 47       |
| 37) Ethyl Acetate             | 6.990  | 43    | 4797     | 2.25      | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 28570    | 5.45      | ug/l # | 17       |
| 73) Isopropylbenzene          | 12.343 | 105   | 124387   | 6.83      | ug/l # | 64       |
| 74) N-amyl acetate            | 12.343 | 43    | 53810    | 14.63     | ug/l # | 13       |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75    | 109010   | 46.46     | ug/l # | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105   | 24866    | 1.72      | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.343 | 75    | 3999     | 3.51      | ug/l # | 1        |
| 84) 1,2,4-Trimethylbenzene    | 13.130 | 105   | 32506    | 2.26      | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119   | 40830    | 2.51      | ug/l # | 76       |
| 90) Hexachloroethane          | 13.977 | 117   | 14247    | 4.27      | ug/l # | 12       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.343 | 75    | 1432     | 3.28      | ug/l # | 1        |
| 95) Naphthalene               | 15.239 | 128   | 171448   | 23.67     | ug/l   | 99       |
| -----                         |        |       |          |           |        |          |

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

Quant Time: Apr 19 02:03:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041624S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 17 06:24:42 2024  
Response via : Initial Calibration

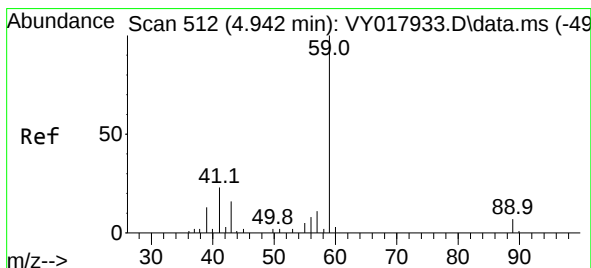
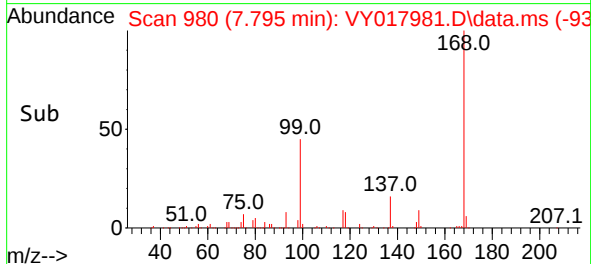
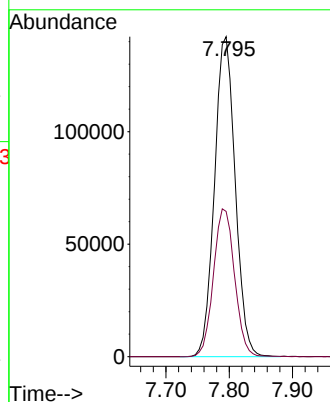
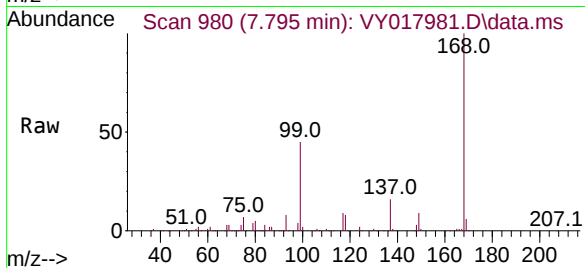




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

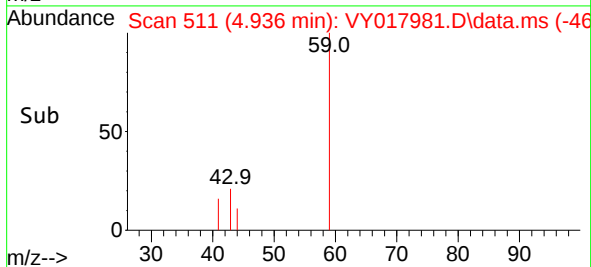
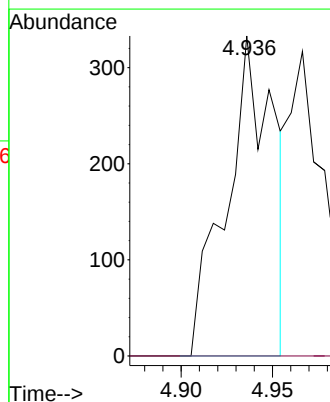
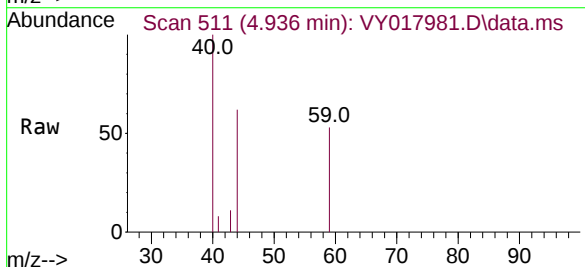
Instrument :  
MSVOA\_Y  
ClientSampleId :

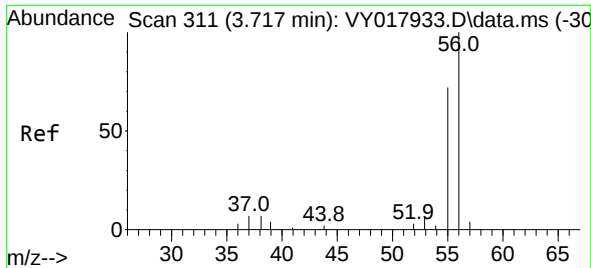
Tgt Ion:168 Resp: 323511  
Ion Ratio Lower Upper  
168 100  
99 45.4 39.1 58.7



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.936 min Scan# 511  
Delta R.T. -0.018 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Tgt Ion: 59 Resp: 595  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#





#13

Acrolein

Concen: 1.63 ug/l

RT: 3.729 min Scan# 311

Delta R.T. 0.000 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

Instrument :

MSVOA\_Y

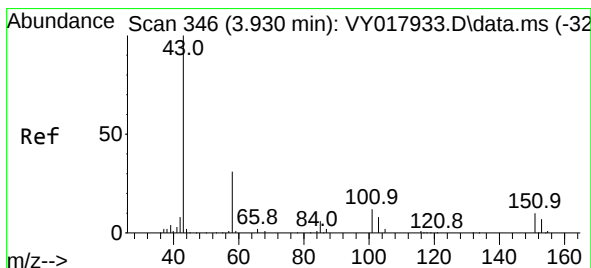
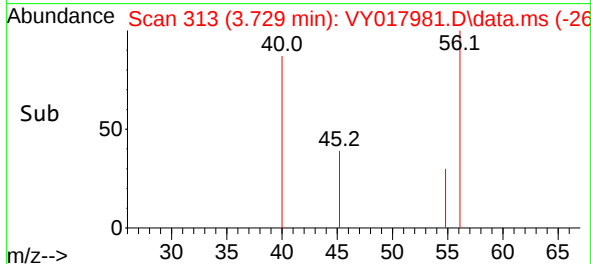
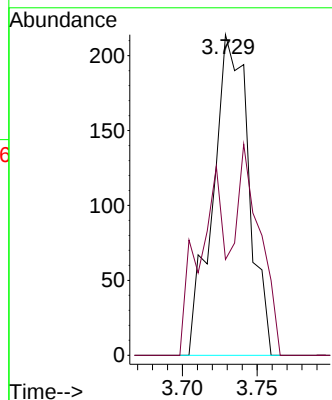
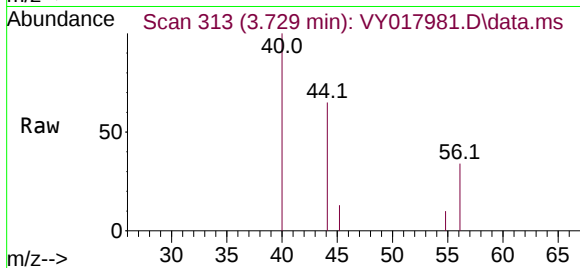
ClientSampleId :

Tgt Ion: 56 Resp: 356

Ion Ratio Lower Upper

56 100

55 41.6 55.7 83.5#



#16

Acetone

Concen: 30.86 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.000 min

Lab File: VY017981.D

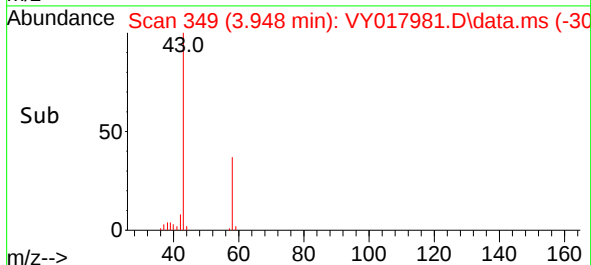
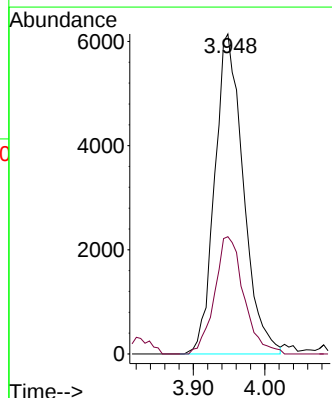
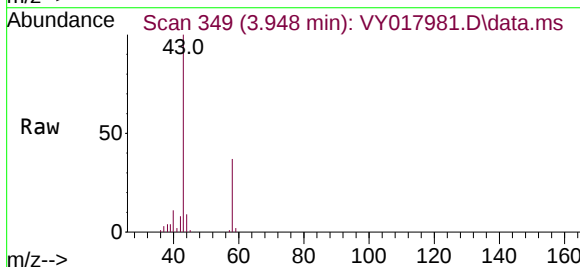
Acq: 18 Apr 2024 17:14

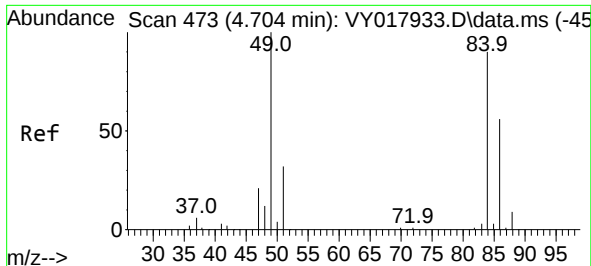
Tgt Ion: 43 Resp: 17071

Ion Ratio Lower Upper

43 100

58 36.7 31.7 47.5





#20

Methylene Chloride

Concen: 5.85 ug/l

RT: 4.716 min Scan# 41

Delta R.T. 0.000 min

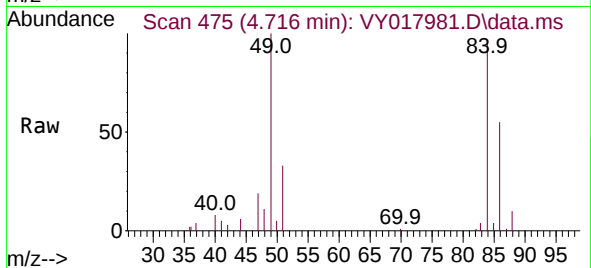
Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion: 84 Resp: 21939

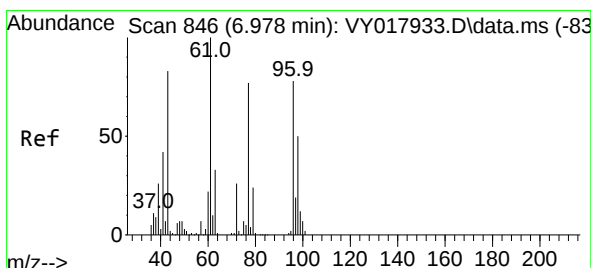
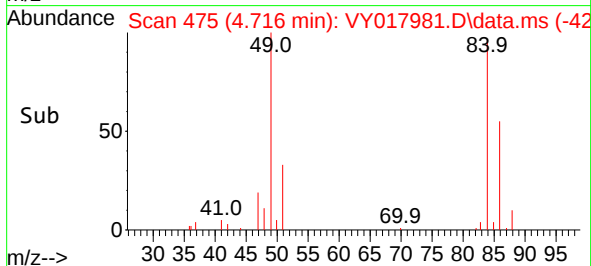
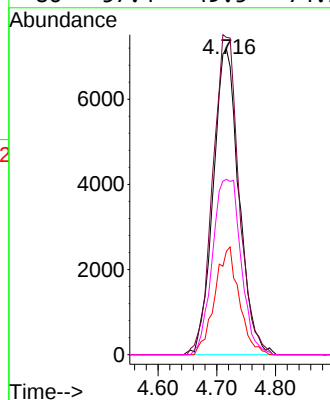
Ion Ratio Lower Upper

84 100

49 103.8 84.4 126.6

51 33.9 26.0 39.0

86 57.4 49.5 74.3



#25

2-Butanone

Concen: 5.90 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY017981.D

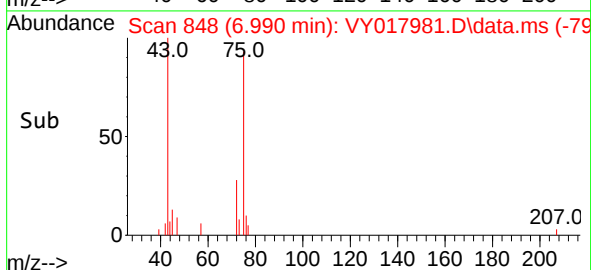
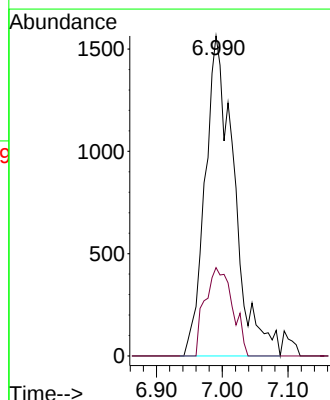
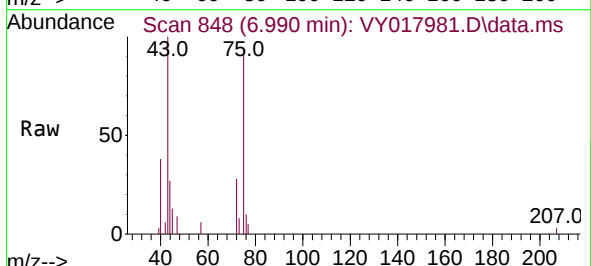
Acq: 18 Apr 2024 17:14

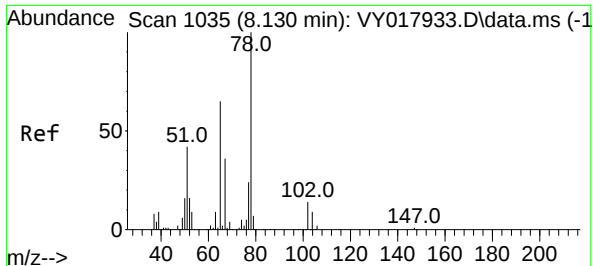
Tgt Ion: 43 Resp: 4797

Ion Ratio Lower Upper

43 100

72 27.6 27.3 40.9





#33

1,2-Dichloroethane-d4

Concen: 55.69 ug/l

RT: 8.143 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

Instrument :

MSVOA\_Y

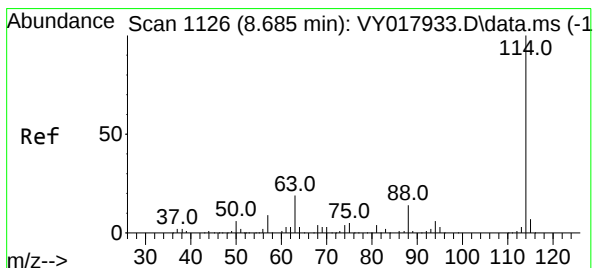
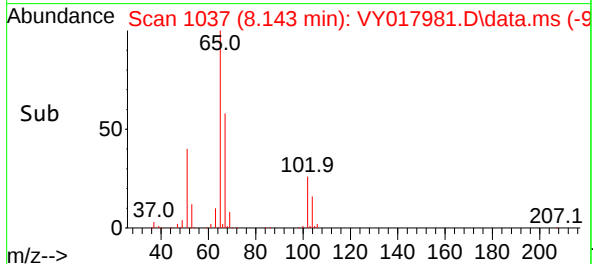
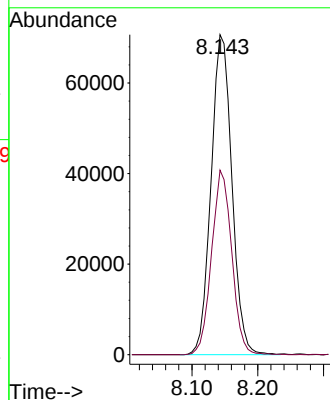
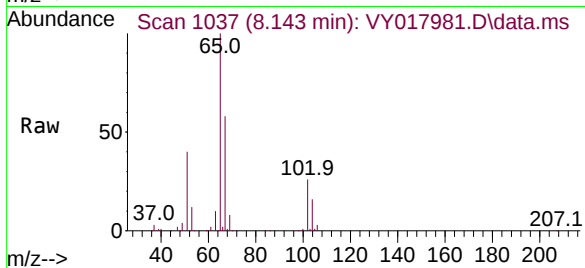
ClientSampleId :

Tgt Ion: 65 Resp: 155903

Ion Ratio Lower Upper

65 100

67 55.8 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

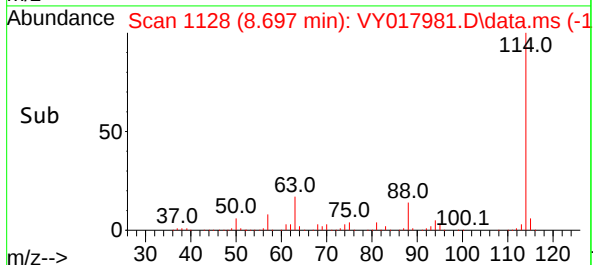
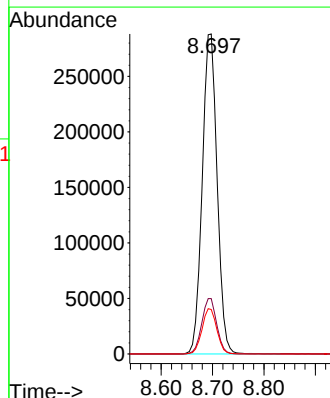
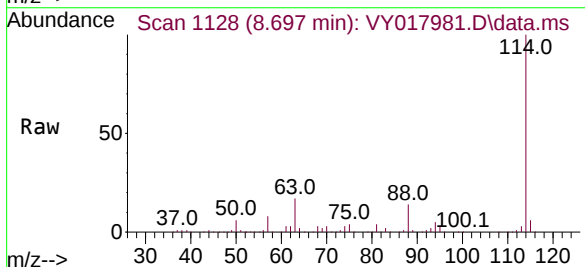
Tgt Ion: 114 Resp: 578453

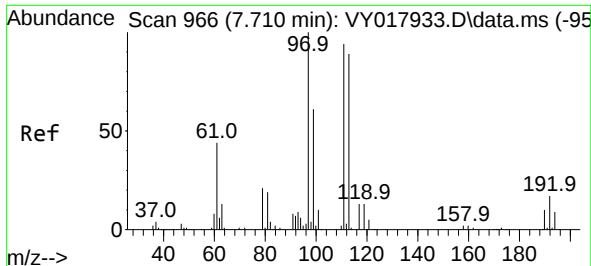
Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.0

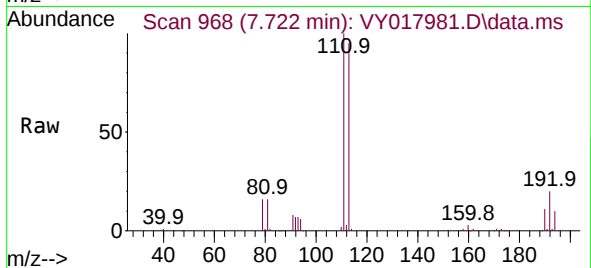
88 13.9 0.0 27.2



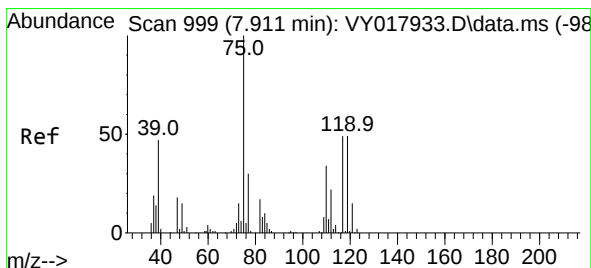
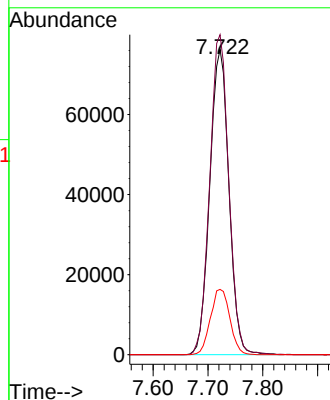
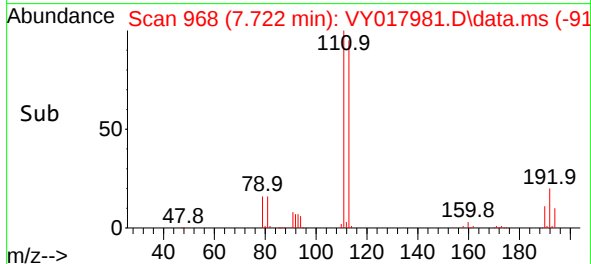


#35  
Dibromofluoromethane  
Concen: 51.76 ug/l  
RT: 7.722 min Scan# 910  
Delta R.T. 0.000 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Instrument :  
MSVOA\_Y  
ClientSampleId :

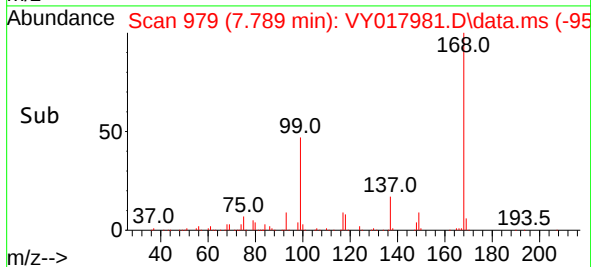
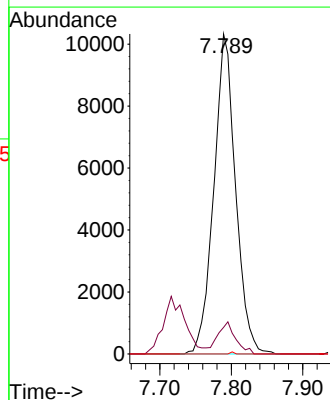
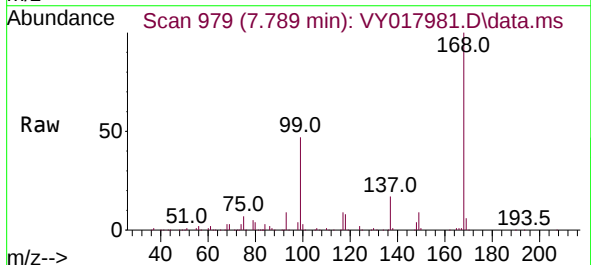


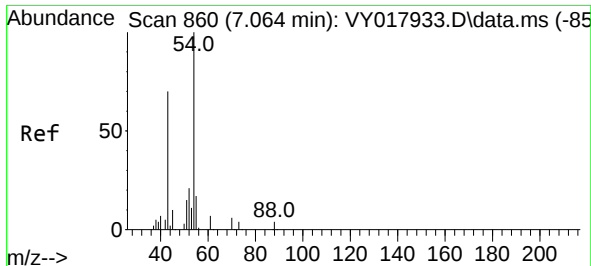
Tgt Ion:113 Resp: 184728  
Ion Ratio Lower Upper  
113 100  
111 104.1 82.2 123.4  
192 21.6 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 4.20 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

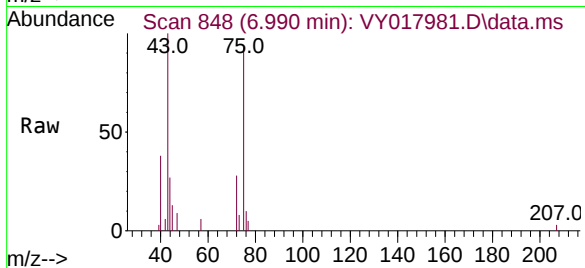
Tgt Ion: 75 Resp: 21808  
Ion Ratio Lower Upper  
75 100  
110 8.3 19.0 57.0#  
77 0.1 25.3 37.9#



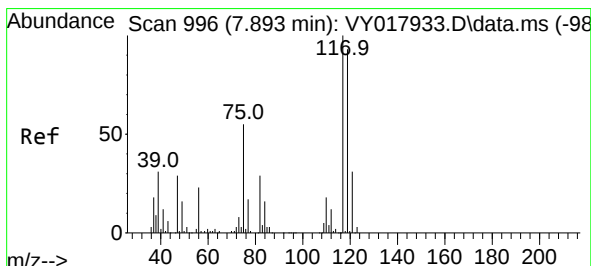
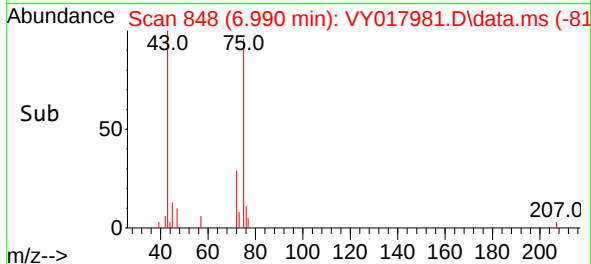
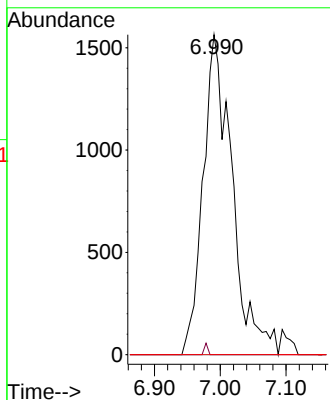


#37  
Ethyl Acetate  
Concen: 2.25 ug/l  
RT: 6.990 min Scan# 84  
Delta R.T. -0.085 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Instrument :  
MSVOA\_Y  
ClientSampleId :

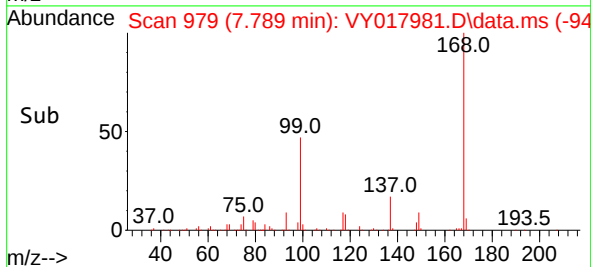
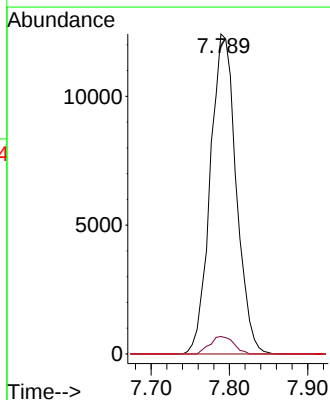
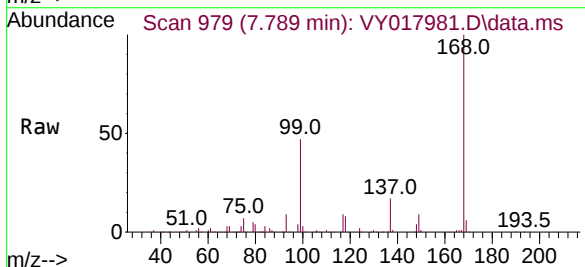


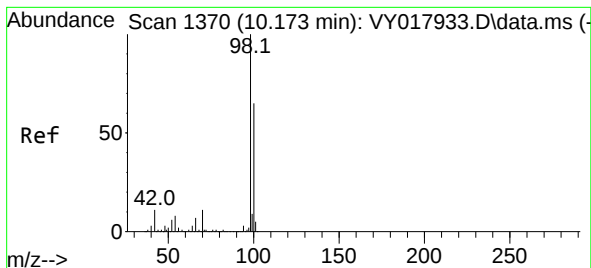
Tgt Ion: 43 Resp: 4797  
Ion Ratio Lower Upper  
43 100  
61 0.4 12.6 19.0#  
70 0.0 7.8 11.8#



#38  
Carbon Tetrachloride  
Concen: 5.45 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.116 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Tgt Ion: 117 Resp: 28570  
Ion Ratio Lower Upper  
117 100  
119 5.5 75.8 113.6#  
121 0.0 24.0 36.0#





#50

Toluene-d8

Concen: 49.68 ug/l

RT: 10.185 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

Instrument :

MSVOA\_Y

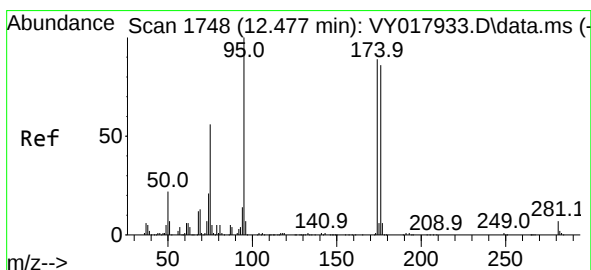
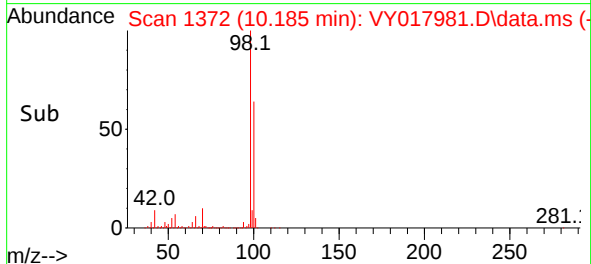
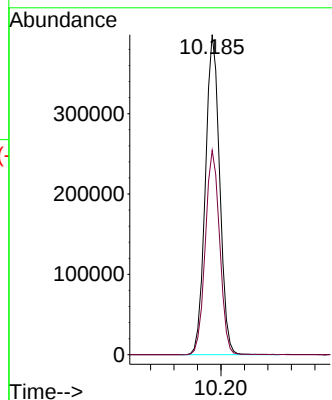
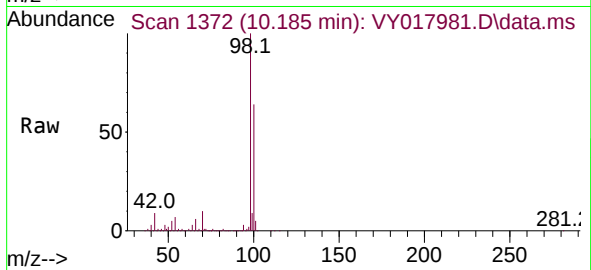
ClientSampleId :

Tgt Ion: 98 Resp: 672758

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 54.56 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

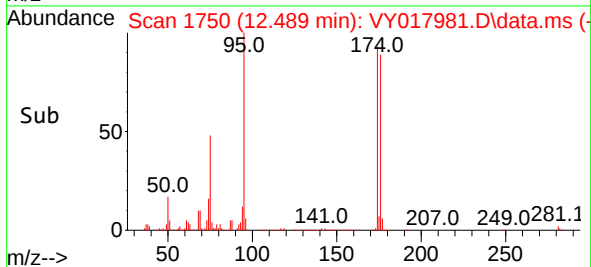
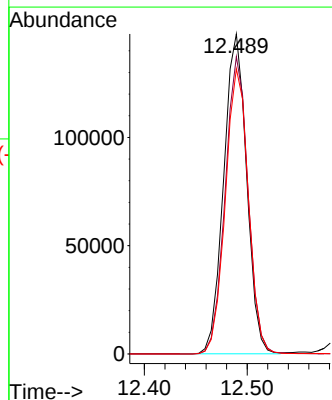
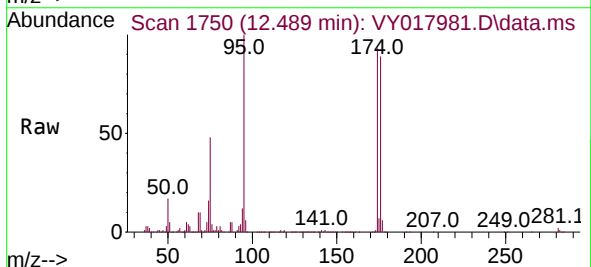
Tgt Ion: 95 Resp: 228795

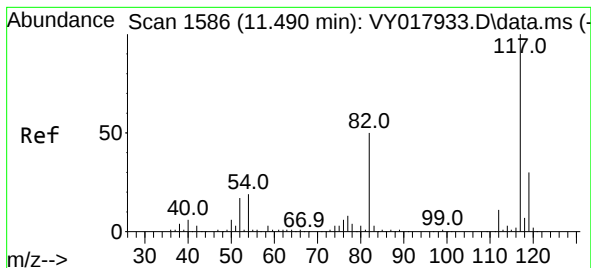
Ion Ratio Lower Upper

95 100

174 92.8 0.0 175.6

176 89.6 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.496 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

Instrument :

MSVOA\_Y

ClientSampleId :

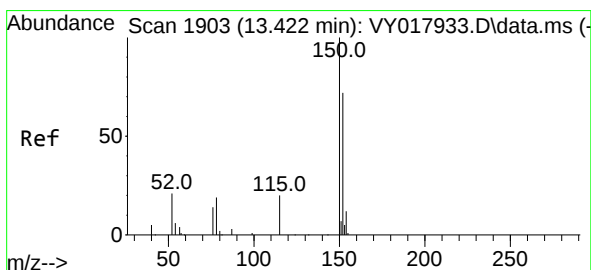
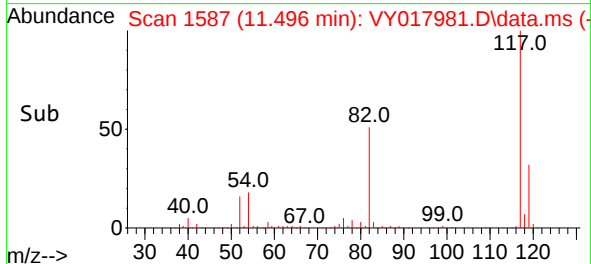
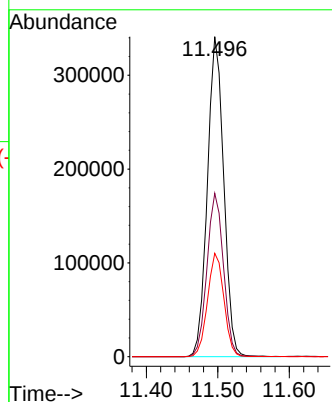
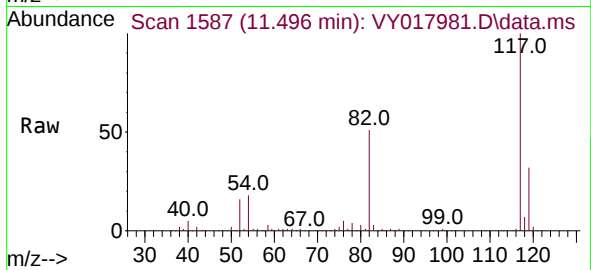
Tgt Ion:117 Resp: 541197

Ion Ratio Lower Upper

117 100

82 51.1 42.4 63.6

119 32.3 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

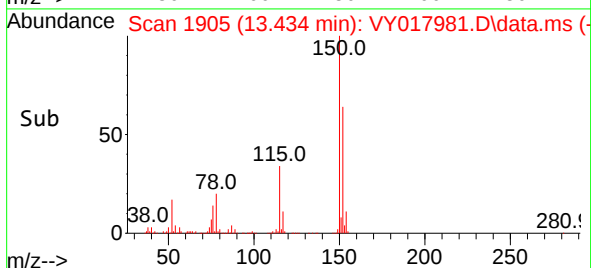
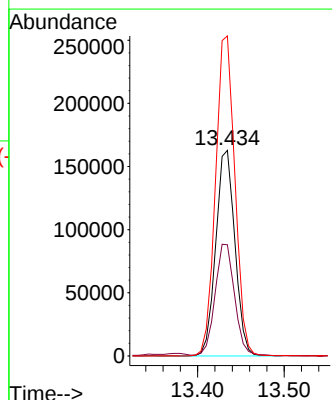
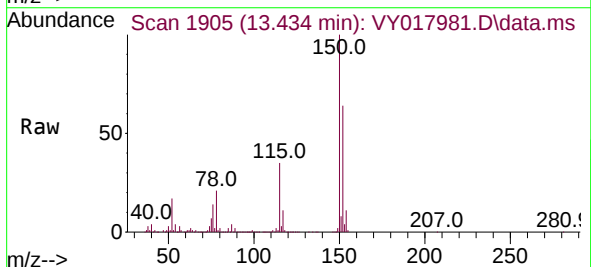
Tgt Ion:152 Resp: 250064

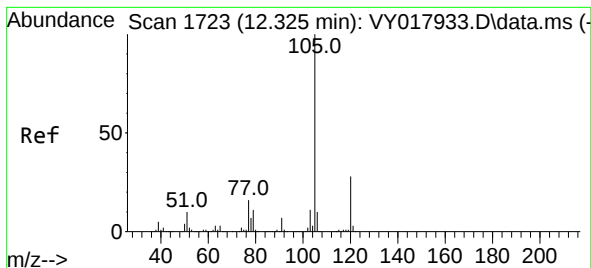
Ion Ratio Lower Upper

152 100

115 55.2 28.2 84.7

150 157.4 0.0 345.6





#73

Isopropylbenzene

Concen: 6.83 ug/l

RT: 12.343 min Scan# 1726

Delta R.T. 0.012 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

Instrument :

MSVOA\_Y

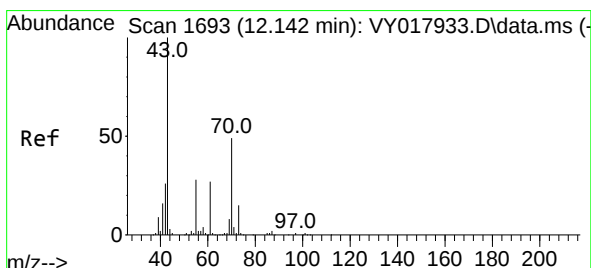
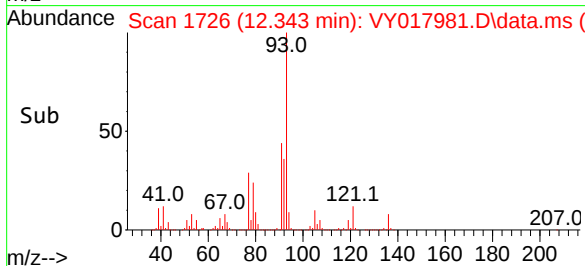
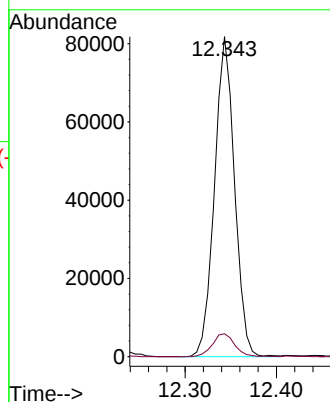
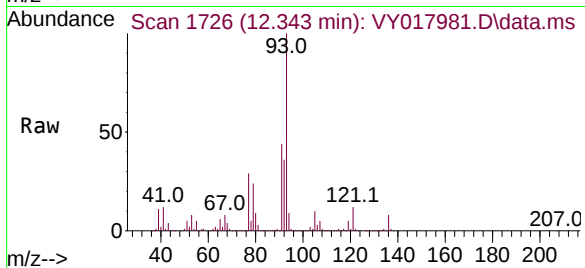
ClientSampleId :

Tgt Ion:105 Resp: 124387

Ion Ratio Lower Upper

105 100

120 8.1 13.4 40.1#



#74

N-ethyl acetate

Concen: 14.63 ug/l

RT: 12.343 min Scan# 1726

Delta R.T. 0.201 min

Lab File: VY017981.D

Acq: 18 Apr 2024 17:14

Tgt Ion: 43 Resp: 53810

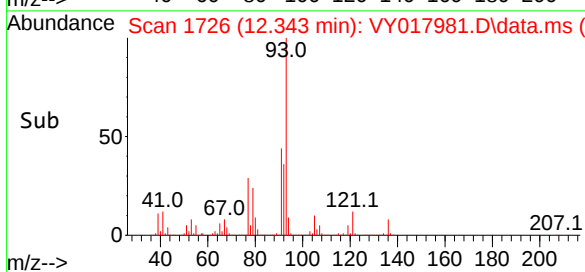
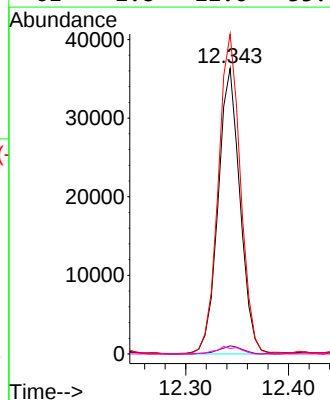
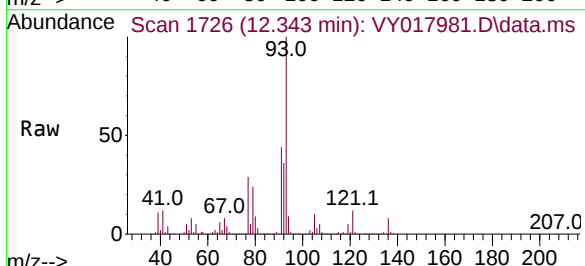
Ion Ratio Lower Upper

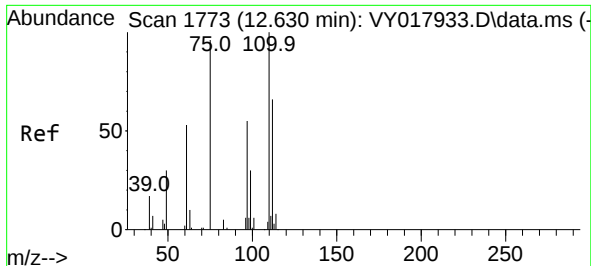
43 100

70 3.1 41.4 62.2#

55 113.4 23.3 34.9#

61 2.8 22.6 33.8#

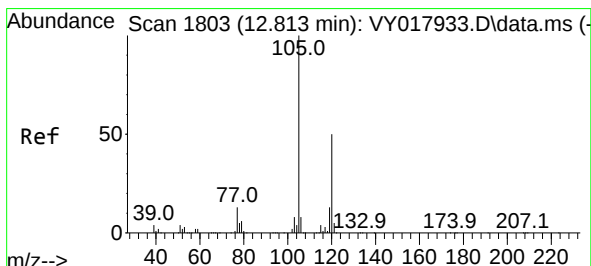
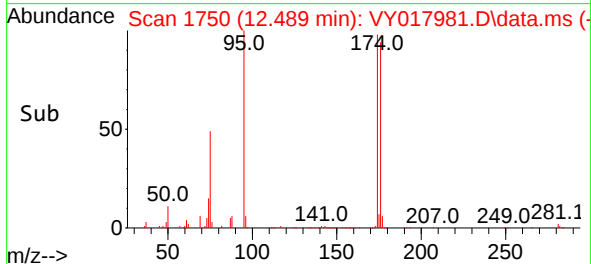
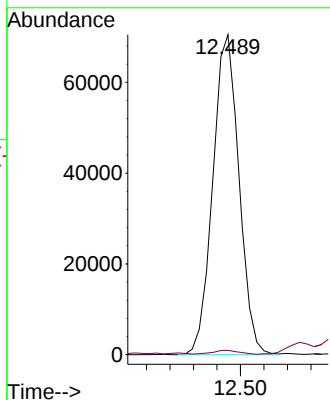
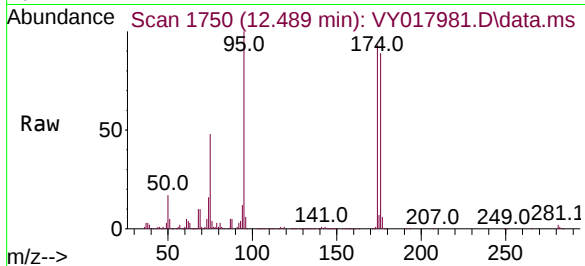




#76  
1,2,3-Trichloropropane  
Concen: 46.46 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. -0.146 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

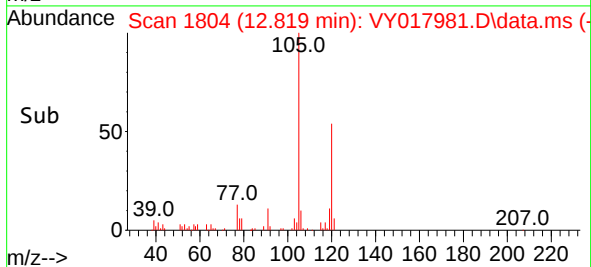
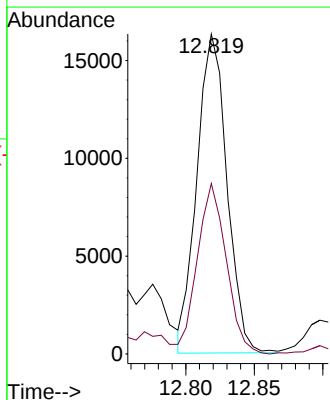
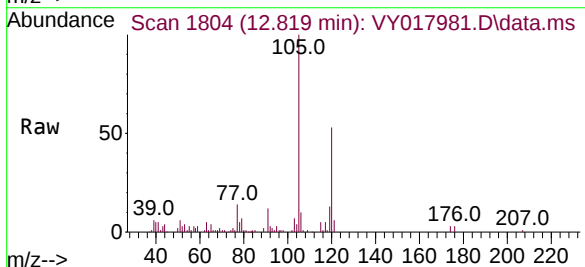
Instrument :  
MSVOA\_Y  
ClientSampleId :

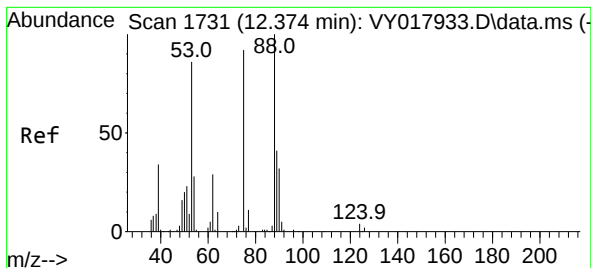
Tgt Ion: 75 Resp: 109010  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#80  
1,3,5-Trimethylbenzene  
Concen: 1.72 ug/l  
RT: 12.819 min Scan# 1804  
Delta R.T. 0.006 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

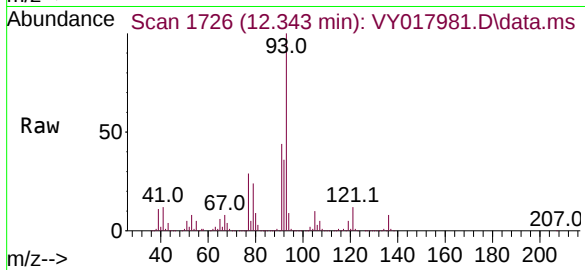
Tgt Ion: 105 Resp: 24866  
Ion Ratio Lower Upper  
105 100  
120 52.0 25.1 75.2



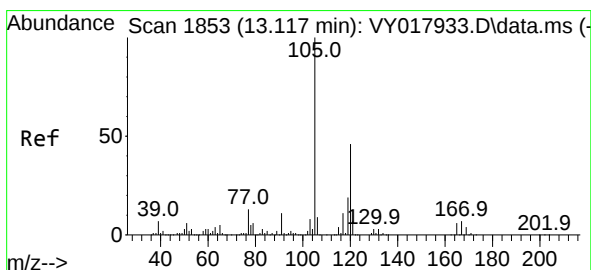
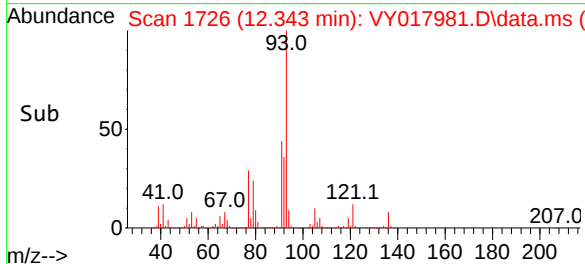
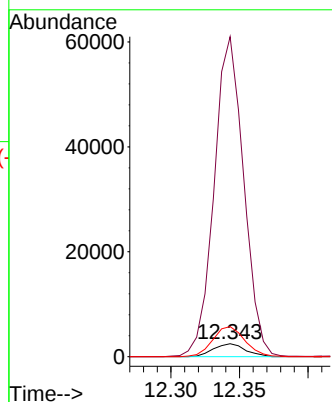


#81  
trans-1,4-Dichloro-2-butene  
Concen: 3.51 ug/l  
RT: 12.343 min Scan# 1726  
Delta R.T. -0.036 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Instrument :  
MSVOA\_Y  
ClientSampleId :

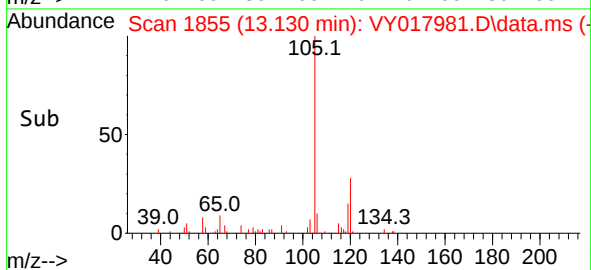
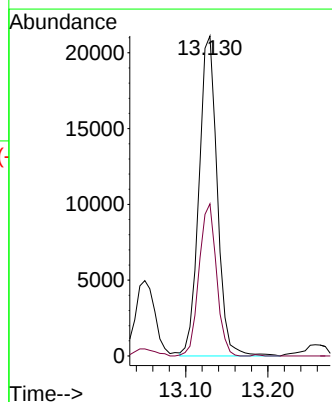
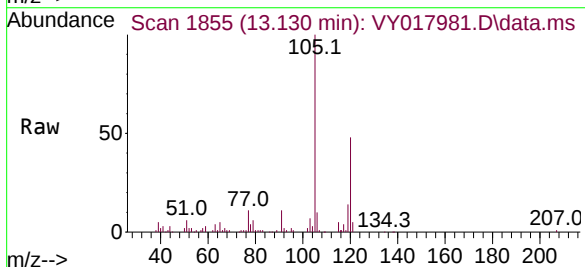


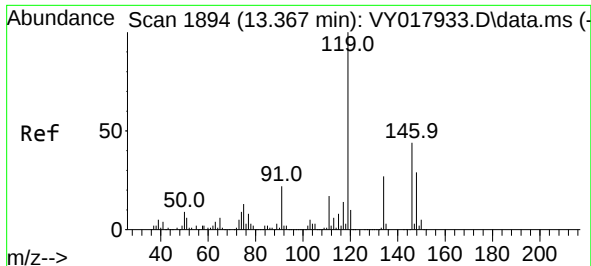
Tgt Ion: 75 Resp: 3999  
Ion Ratio Lower Upper  
75 100  
53 2295.0 66.8 100.2#  
89 235.1 35.8 53.6#



#84  
1,2,4-Trimethylbenzene  
Concen: 2.26 ug/l  
RT: 13.130 min Scan# 1855  
Delta R.T. 0.012 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Tgt Ion: 105 Resp: 32506  
Ion Ratio Lower Upper  
105 100  
120 45.5 23.2 69.6

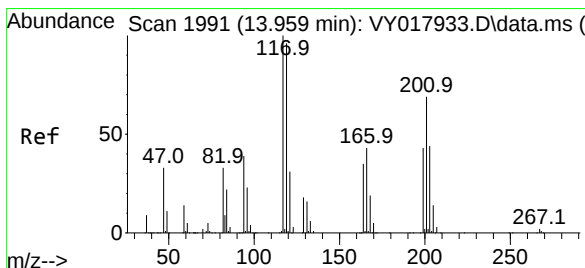
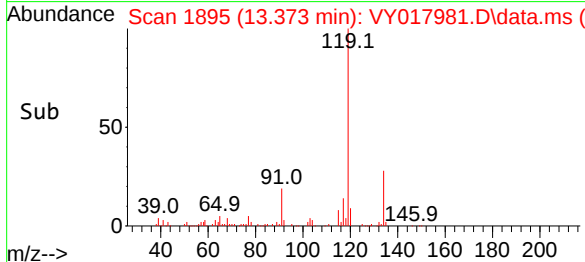
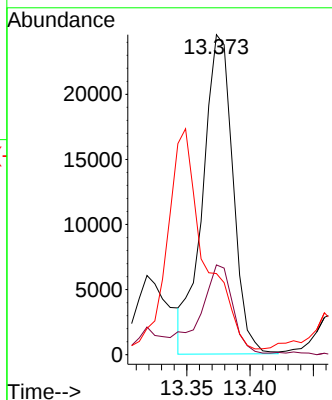
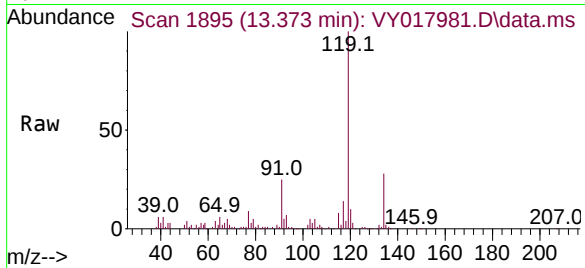




#86  
p-Isopropyltoluene  
Concen: 2.51 ug/l  
RT: 13.373 min Scan# 119  
Delta R.T. 0.006 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

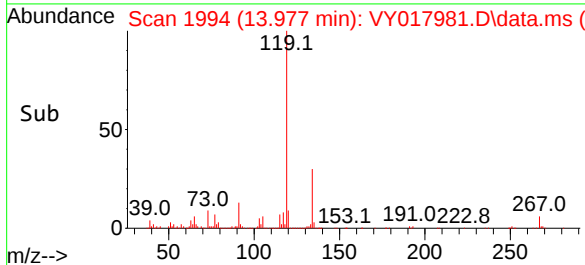
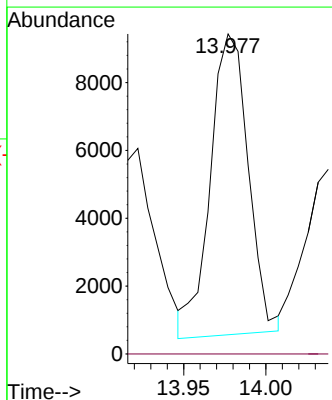
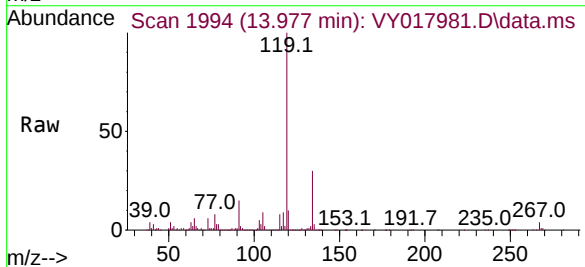
Instrument :  
MSVOA\_Y  
ClientSampleId :

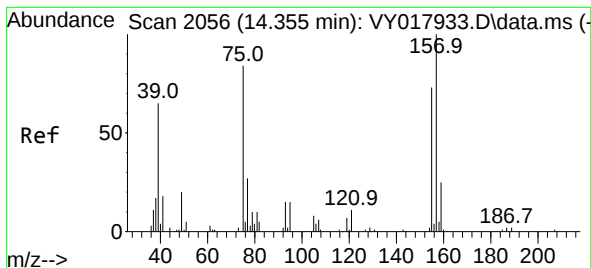
Tgt Ion:119 Resp: 40830  
Ion Ratio Lower Upper  
119 100  
134 29.3 13.1 39.3  
91 0.0 10.7 32.1#



#90  
Hexachloroethane  
Concen: 4.27 ug/l  
RT: 13.977 min Scan# 1994  
Delta R.T. 0.019 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Tgt Ion:117 Resp: 14247  
Ion Ratio Lower Upper  
117 100  
201 0.0 37.4 112.2#

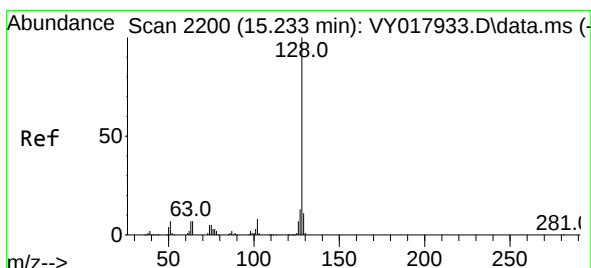
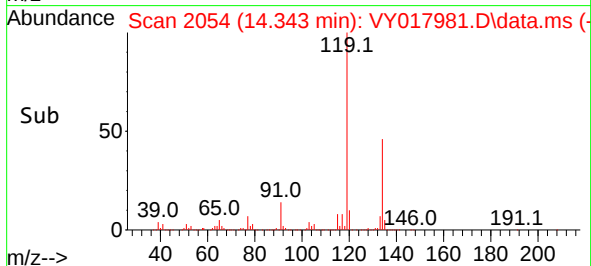
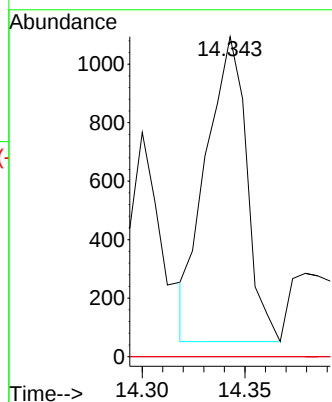
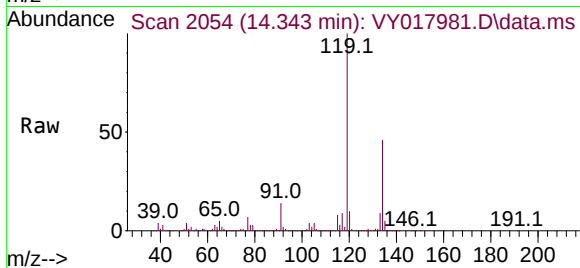




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 3.28 ug/l  
RT: 14.343 min Scan# 2056  
Delta R.T. -0.012 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 1432  
Ion Ratio Lower Upper  
75 100  
155 0.0 48.6 145.8#  
157 0.0 62.7 188.2#



#95  
Naphthalene  
Concen: 23.67 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. 0.006 min  
Lab File: VY017981.D  
Acq: 18 Apr 2024 17:14

Tgt Ion:128 Resp: 171448  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.6 16.0  
129 10.6 8.6 13.0

