

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032524\  
 Data File : VY017755.D  
 Acq On : 25 Mar 2024 17:11  
 Operator : SY/MD  
 Sample : P1861-01RE  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HD-02-03252024RE

Quant Time: Mar 26 04:26:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032224S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 04:03:52 2024  
 Response via : Initial Calibration

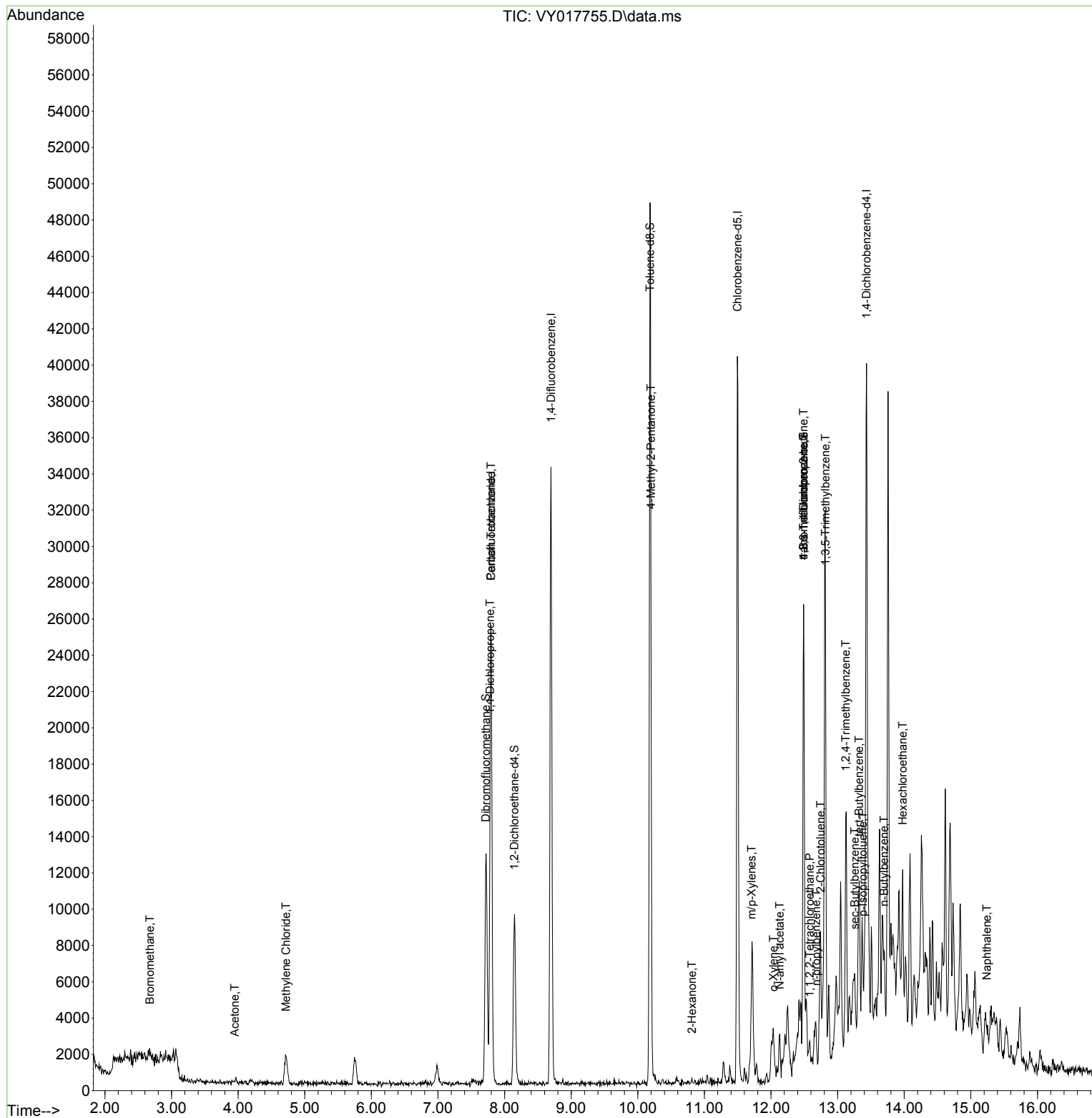
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.795          | 168  | 21768               | 50.000  | ug/l   | -0.02    |
| 34) 1,4-Difluorobenzene       | 8.697          | 114  | 30456               | 50.000  | ug/l   | -0.01    |
| 63) Chlorobenzene-d5          | 11.496         | 117  | 23588               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.434         | 152  | 8536                | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.149          | 65   | 7424                | 39.148  | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 78.300%  |         |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 9310                | 51.139  | ug/l   | -0.02    |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 102.280% |         |        |          |
| 50) Toluene-d8                | 10.185         | 98   | 32919               | 47.246  | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 94.500%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.489         | 95   | 7856                | 37.548  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 75.100%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 5) Bromomethane               | 2.674          | 94   | 254                 | 1.105   | ug/l   | 100      |
| 16) Acetone                   | 3.948          | 43   | 207                 | 6.241   | ug/l # | 36       |
| 20) Methylene Chloride        | 4.716          | 84   | 1268                | 5.256   | ug/l   | 99       |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 1551                | 5.515   | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 7.795          | 117  | 2010                | 6.825   | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.197         | 43   | 135                 | 6.788   | ug/l # | 1        |
| 59) 2-Hexanone                | 10.813         | 43   | 25                  | 9.781   | ug/l # | 19       |
| 68) m/p-Xylenes               | 11.709         | 106  | 1037                | 3.065   | ug/l   | 99       |
| 69) o-Xylene                  | 12.038         | 106  | 647                 | 2.095   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.130         | 43   | 480                 | 5.770   | ug/l # | 73       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581         | 83   | 101                 | 1.018   | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 12.489         | 75   | 4090                | 51.887  | ug/l # | 100      |
| 78) n-propylbenzene           | 12.678         | 91   | 1924                | 2.466   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.745         | 91   | 525                 | 1.227   | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 12.818         | 105  | 2169                | 4.299   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.489         | 75   | 4090                | 119.896 | ug/l # | 16       |
| 83) tert-Butylbenzene         | 13.325         | 119  | 1150                | 2.519   | ug/l   | 83       |
| 84) 1,2,4-Trimethylbenzene    | 13.123         | 105  | 7132                | 14.418  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257         | 105  | 1273                | 1.860   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.379         | 119  | 650                 | 1.144   | ug/l # | 53       |
| 89) n-Butylbenzene            | 13.696         | 91   | 1475                | 2.869   | ug/l # | 70       |
| 90) Hexachloroethane          | 13.977         | 117  | 381                 | 3.288   | ug/l # | 12       |
| 95) Naphthalene               | 15.239         | 128  | 436                 | 4.481   | ug/l # | 69       |
| -----                         |                |      |                     |         |        |          |

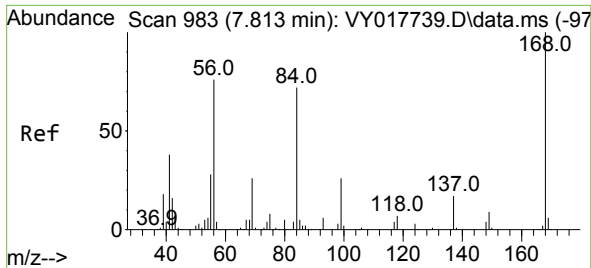
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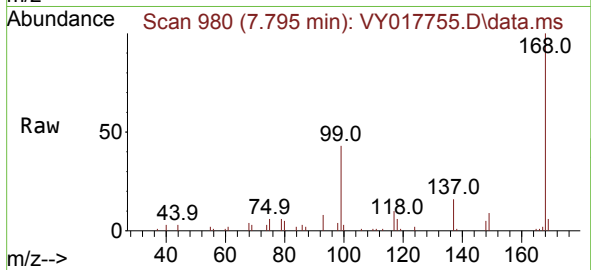
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QLast Update : Sat Mar 23 04:03:52 2024  
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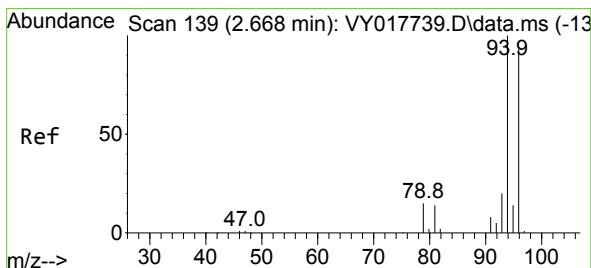
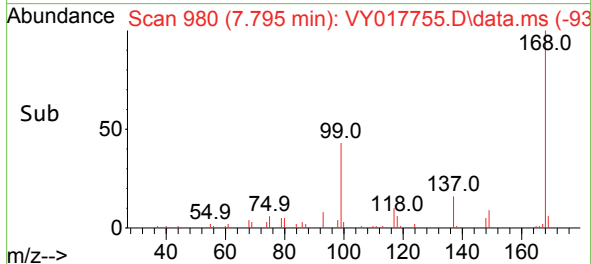
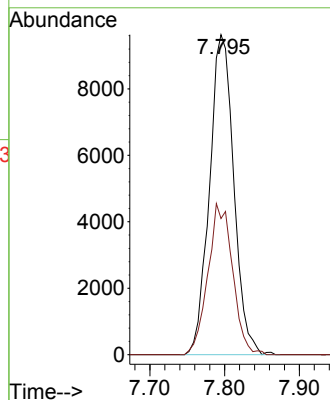


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.018 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Instrument :  
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ClientSampleId :  
HD-02-03252024RE

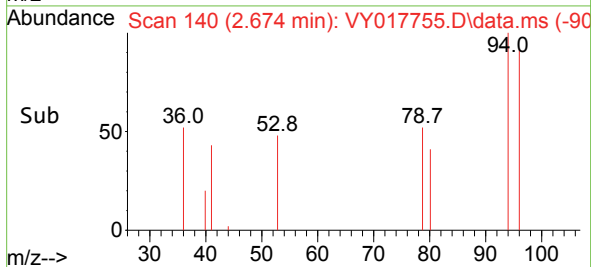
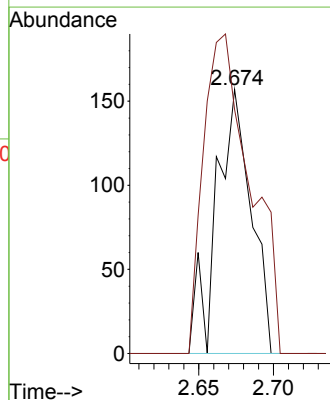
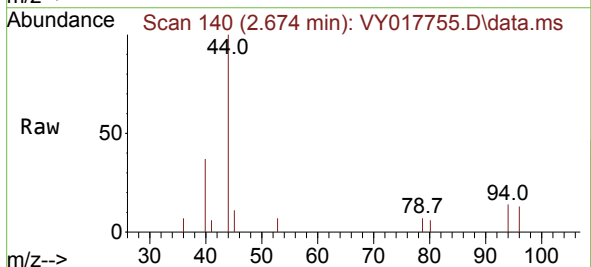


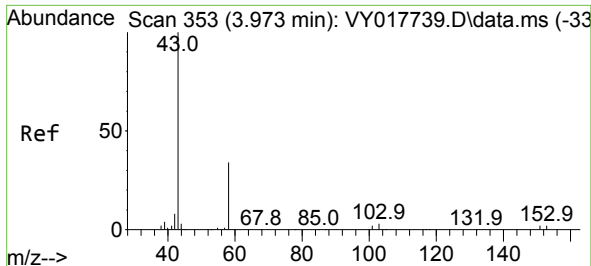
Tgt Ion:168 Resp: 21768  
Ion Ratio Lower Upper  
168 100  
99 42.5 39.1 58.7



#5  
Bromomethane  
Concen: 1.105 ug/l  
RT: 2.674 min Scan# 140  
Delta R.T. 0.006 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Tgt Ion: 94 Resp: 254  
Ion Ratio Lower Upper  
94 100  
96 92.4 74.1 111.1

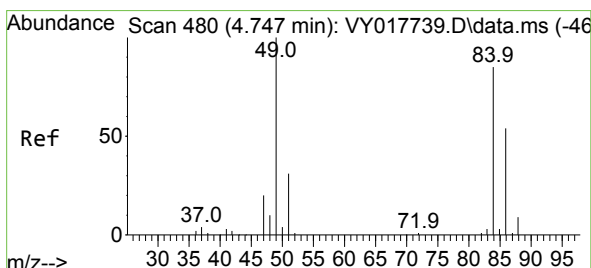
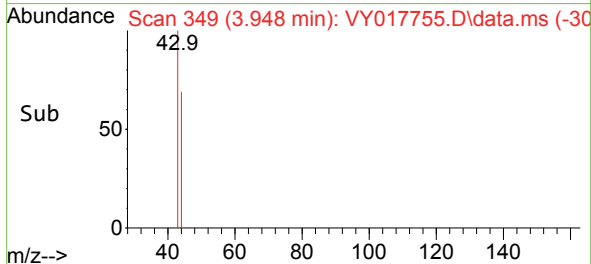
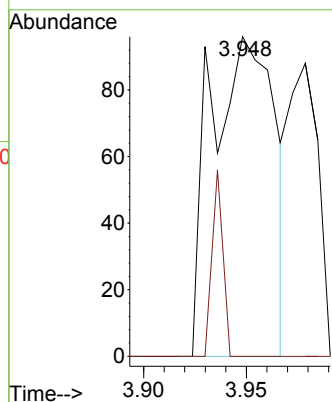
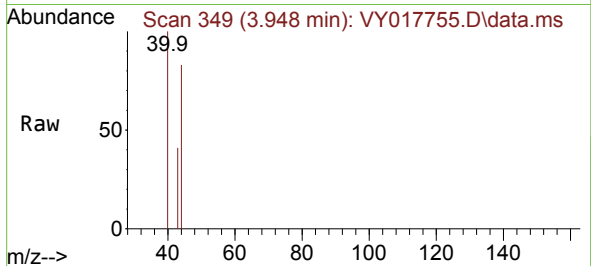




#16  
Acetone  
Concen: 6.241 ug/l  
RT: 3.948 min Scan# 34  
Delta R.T. -0.024 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

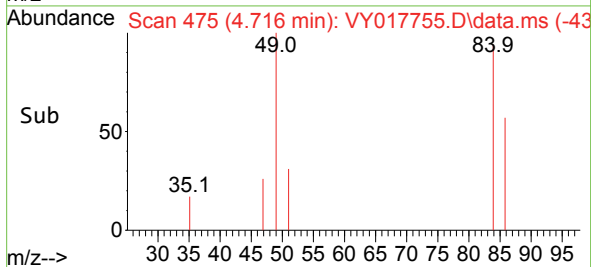
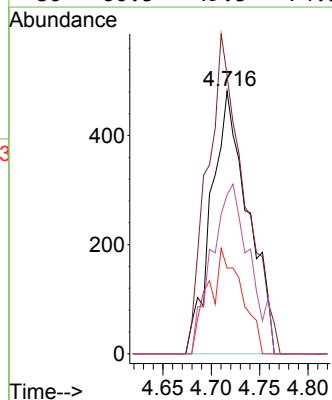
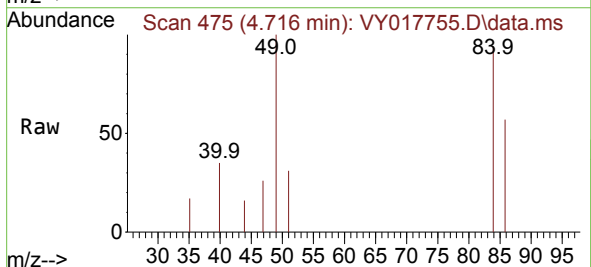
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HD-02-03252024RE

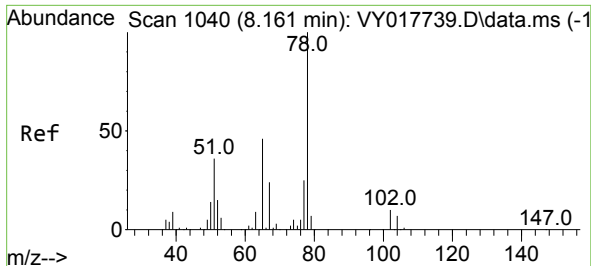
Tgt Ion: 43 Resp: 207  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 47.5#



#20  
Methylene Chloride  
Concen: 5.256 ug/l  
RT: 4.716 min Scan# 475  
Delta R.T. -0.031 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Tgt Ion: 84 Resp: 1268  
Ion Ratio Lower Upper  
84 100  
49 106.0 84.4 126.6  
51 32.6 26.0 39.0  
86 60.5 49.5 74.3





#33

1,2-Dichloroethane-d4

Concen: 39.148 ug/l

RT: 8.149 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

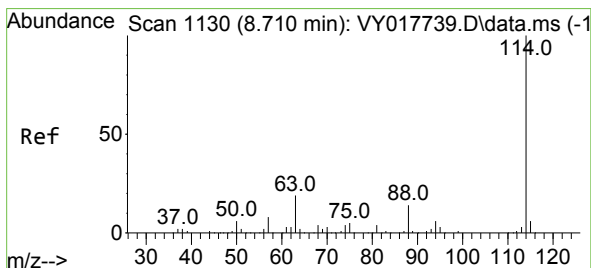
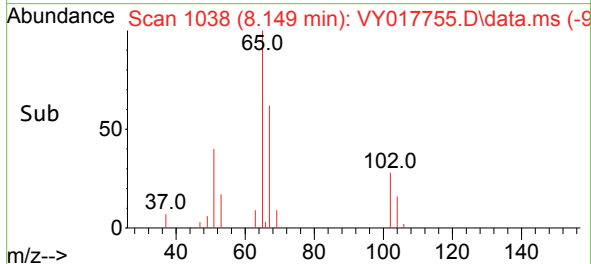
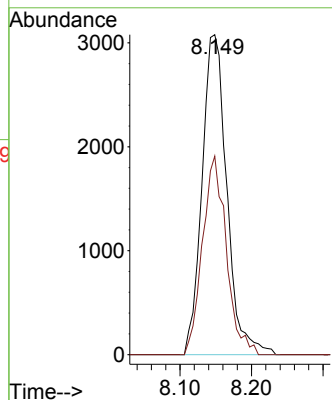
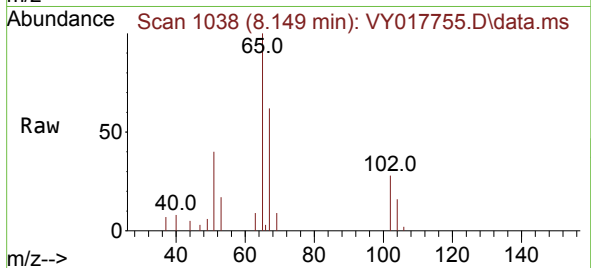
HD-02-03252024RE

Tgt Ion: 65 Resp: 7424

Ion Ratio Lower Upper

65 100

67 59.6 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.012 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

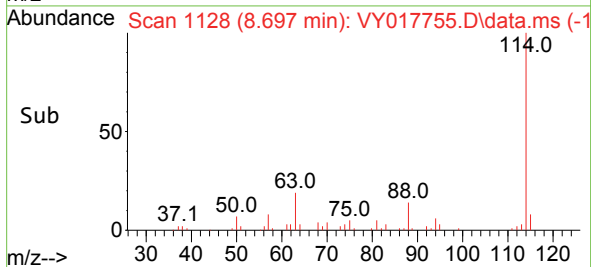
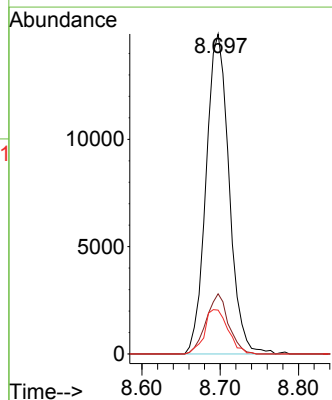
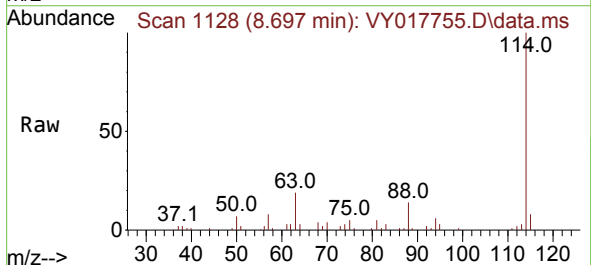
Tgt Ion: 114 Resp: 30456

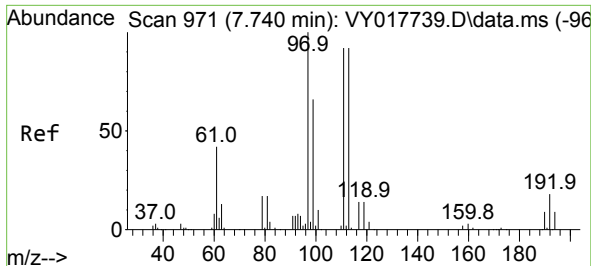
Ion Ratio Lower Upper

114 100

63 18.8 0.0 35.0

88 13.7 0.0 27.2

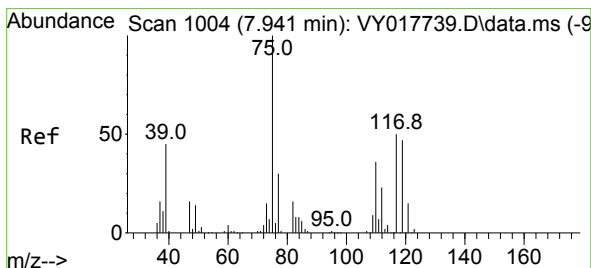
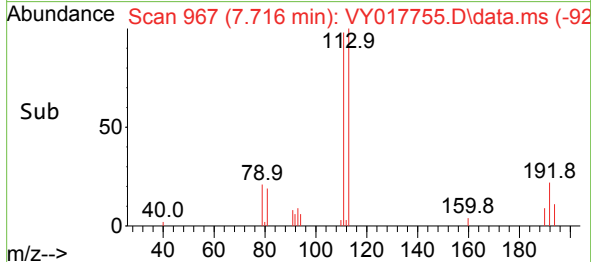
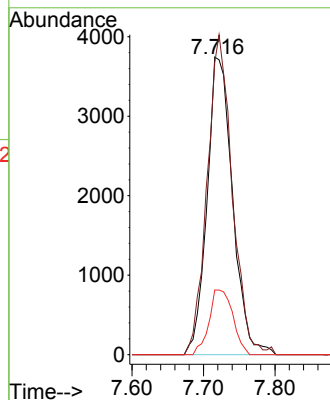
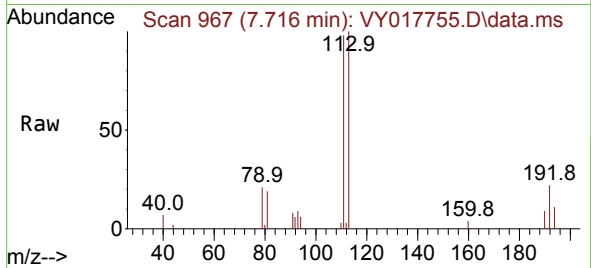




#35  
Dibromofluoromethane  
Concen: 51.139 ug/l  
RT: 7.716 min Scan# 910  
Delta R.T. -0.024 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

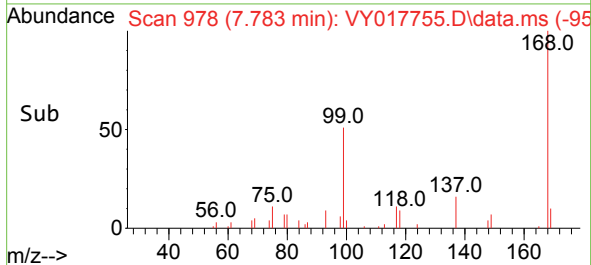
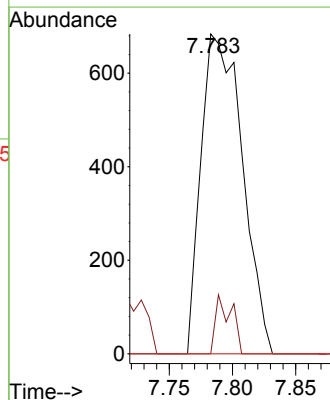
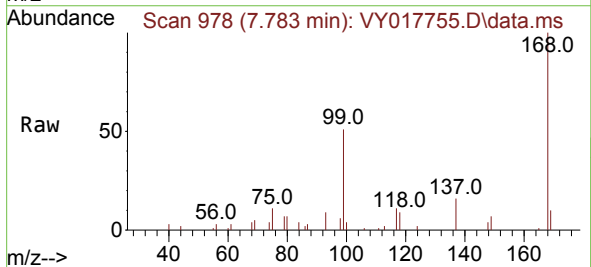
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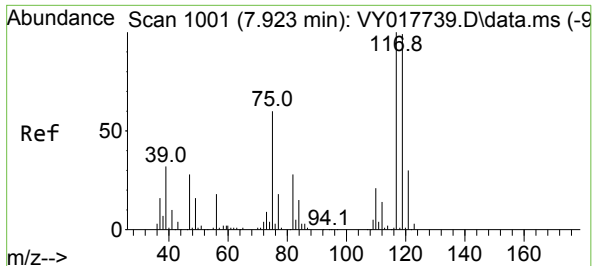
Tgt Ion:113 Resp: 9310  
Ion Ratio Lower Upper  
113 100  
111 105.5 82.2 123.4  
192 20.2 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 5.515 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.159 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Tgt Ion: 75 Resp: 1551  
Ion Ratio Lower Upper  
75 100  
110 7.1 19.0 57.0#  
77 0.0 25.3 37.9#

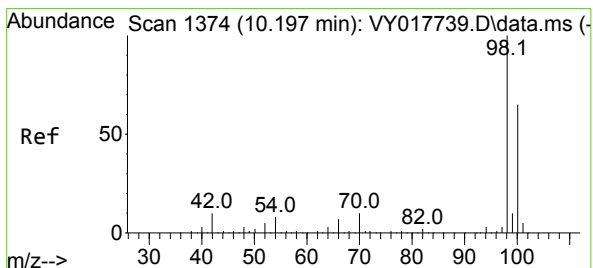
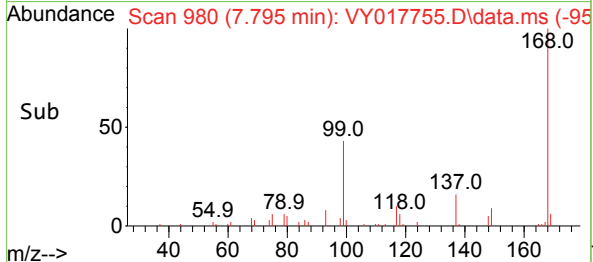
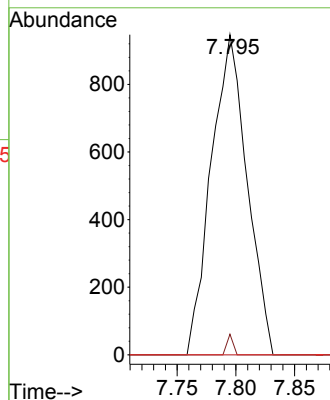
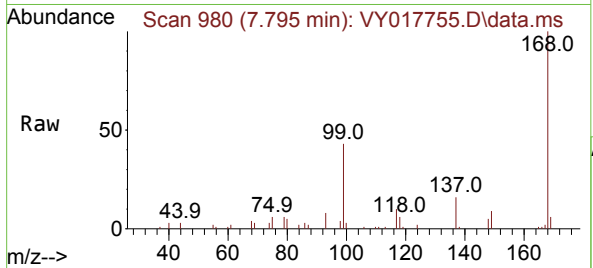




#38  
Carbon Tetrachloride  
Concen: 6.825 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

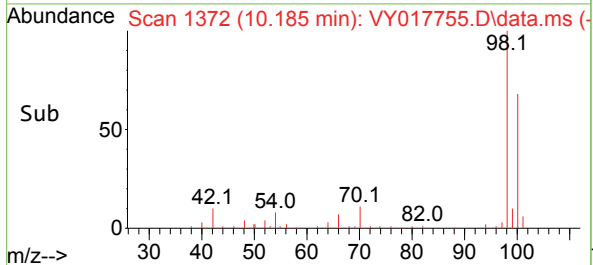
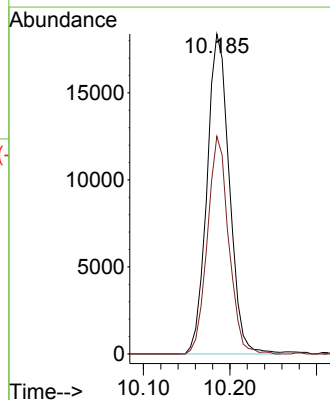
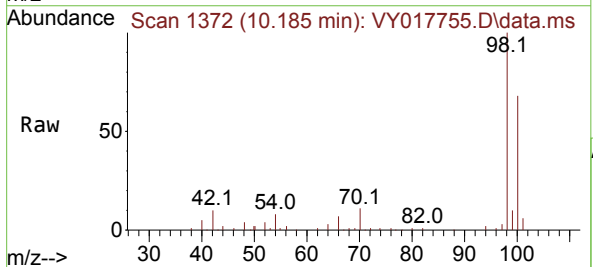
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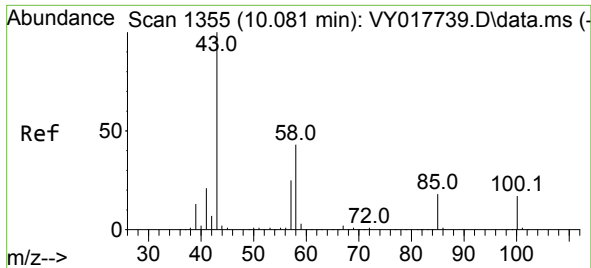
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Ion Ratio Lower Upper  
117 100  
119 6.4 75.8 113.6#  
121 0.0 24.0 36.0#



#50  
Toluene-d8  
Concen: 47.246 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.012 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Tgt Ion: 98 Resp: 32919  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.0 78.0

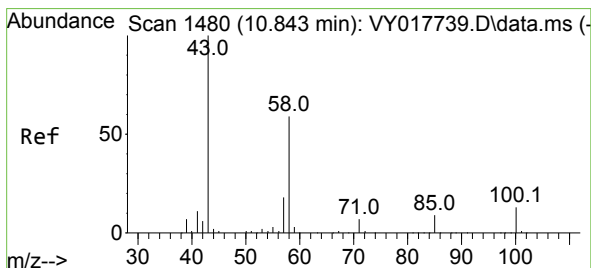
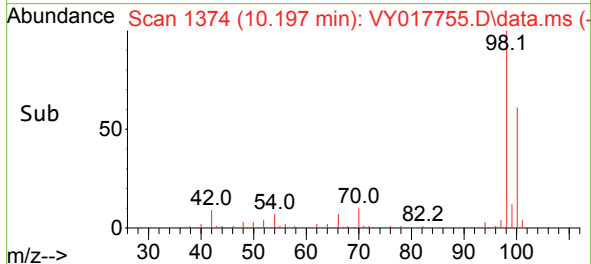
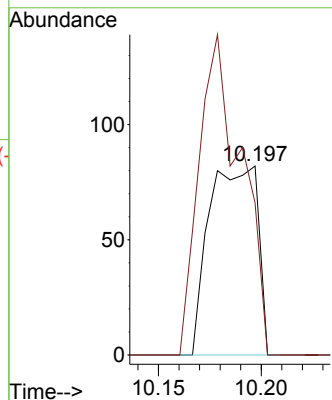
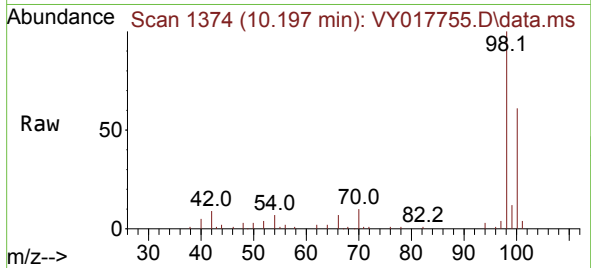




#51  
4-Methyl-2-Pentanone  
Concen: 6.788 ug/l  
RT: 10.197 min Scan# 11  
Delta R.T. 0.116 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

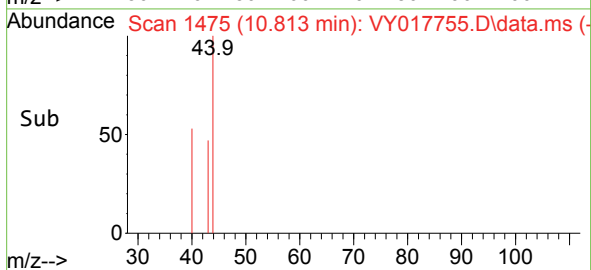
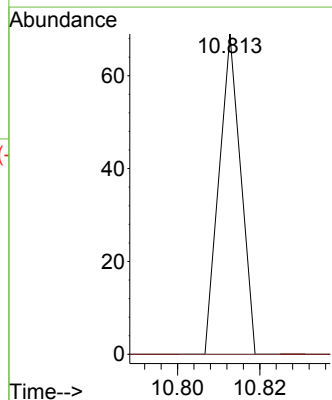
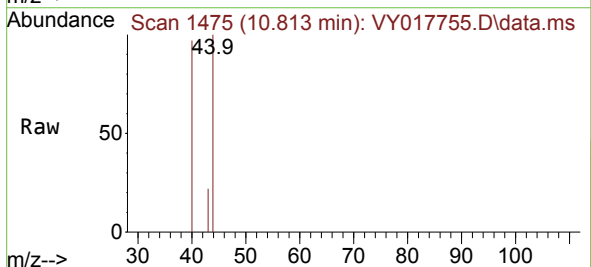
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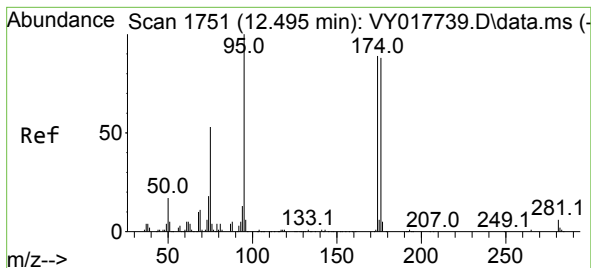
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Ion Ratio Lower Upper  
43 100  
58 146.7 35.7 53.5#



#59  
2-Hexanone  
Concen: 9.781 ug/l  
RT: 10.813 min Scan# 1475  
Delta R.T. -0.030 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Tgt Ion: 43 Resp: 25  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.4 94.0#





#62

4-Bromofluorobenzene

Concen: 37.548 ug/l

RT: 12.489 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

HD-02-03252024RE

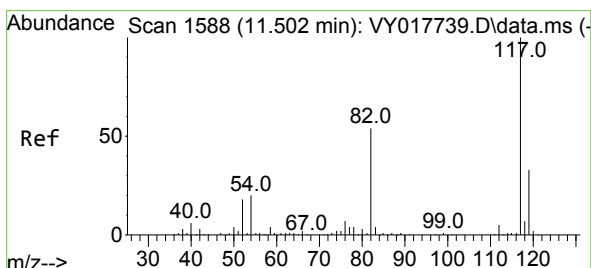
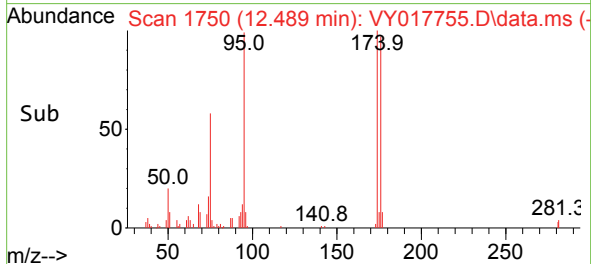
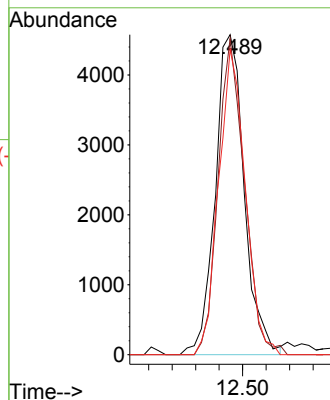
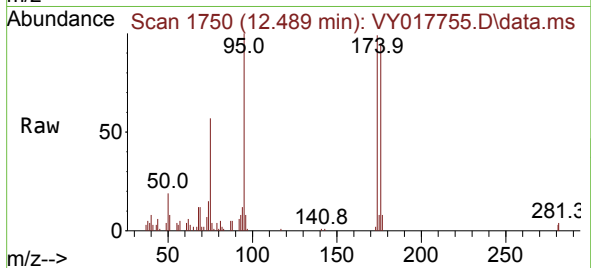
Tgt Ion: 95 Resp: 7856

Ion Ratio Lower Upper

95 100

174 89.7 0.0 175.6

176 87.9 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 1587

Delta R.T. -0.006 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

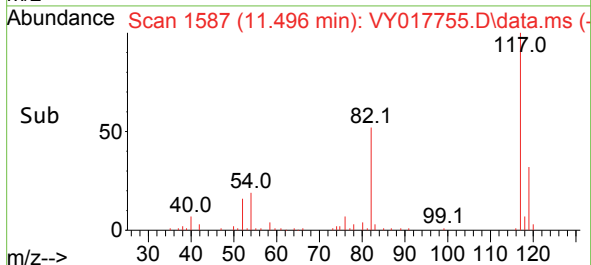
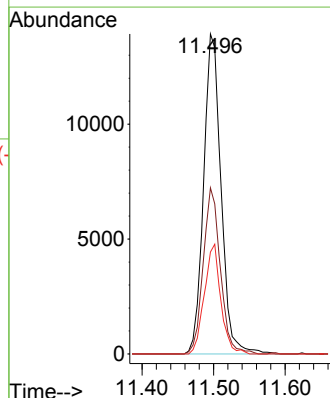
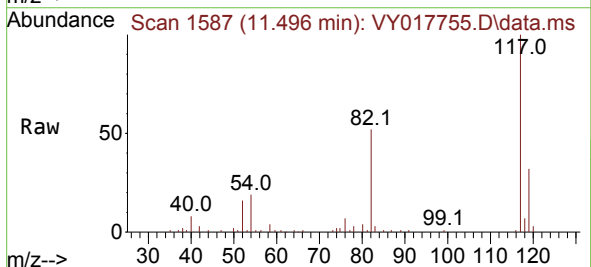
Tgt Ion: 117 Resp: 23588

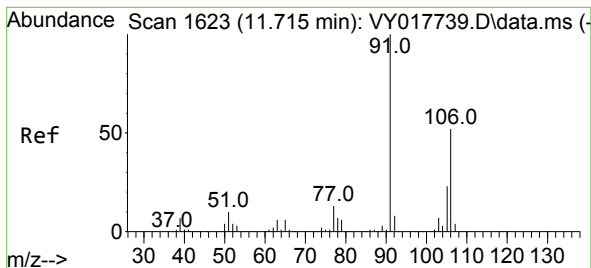
Ion Ratio Lower Upper

117 100

82 51.9 42.4 63.6

119 31.8 25.9 38.9





#68

m/p-Xylenes

Concen: 3.065 ug/l

RT: 11.709 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

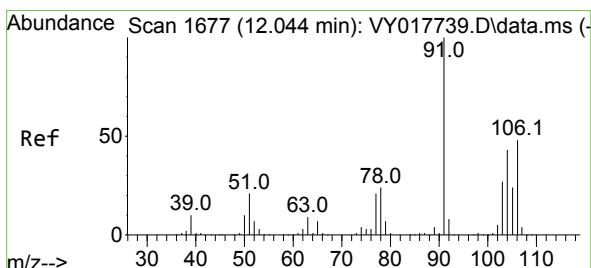
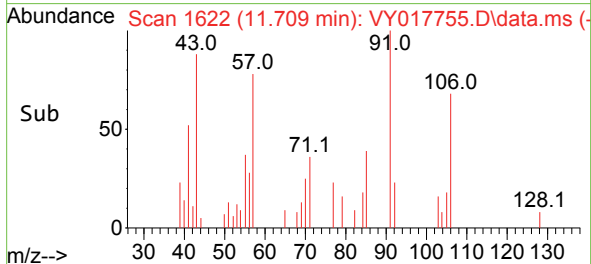
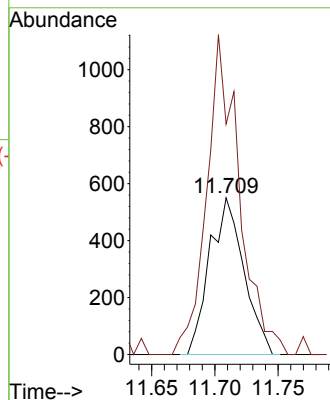
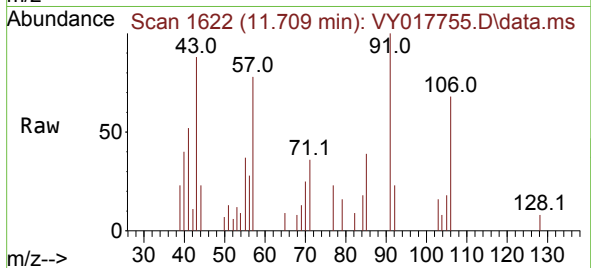
HD-02-03252024RE

Tgt Ion:106 Resp: 1037

Ion Ratio Lower Upper

106 100

91 193.9 156.0 234.0



#69

o-Xylene

Concen: 2.095 ug/l

RT: 12.038 min Scan# 1676

Delta R.T. -0.006 min

Lab File: VY017755.D

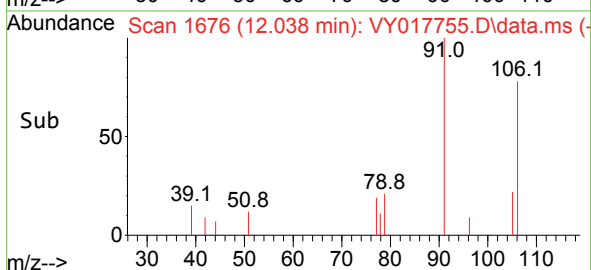
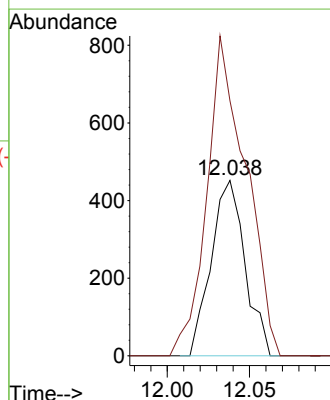
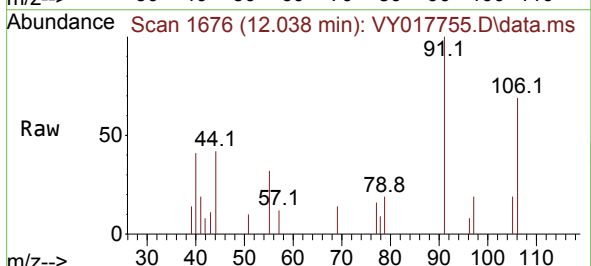
Acq: 25 Mar 2024 17:11

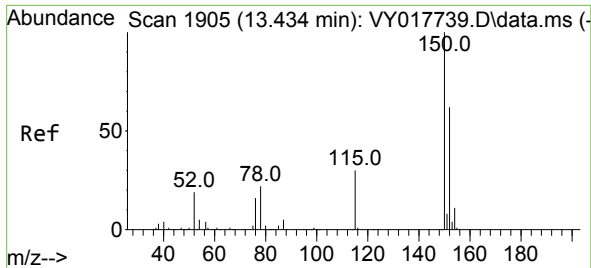
Tgt Ion:106 Resp: 647

Ion Ratio Lower Upper

106 100

91 210.4 103.6 310.8

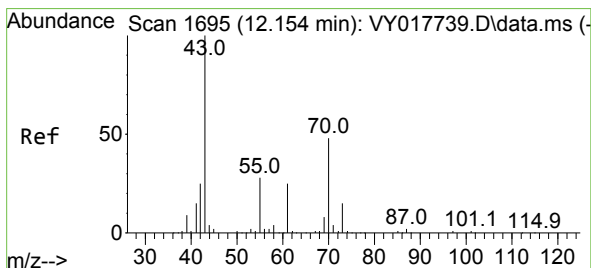
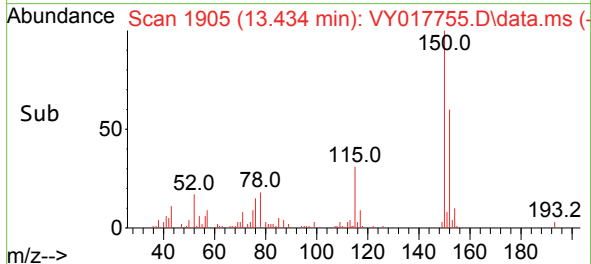
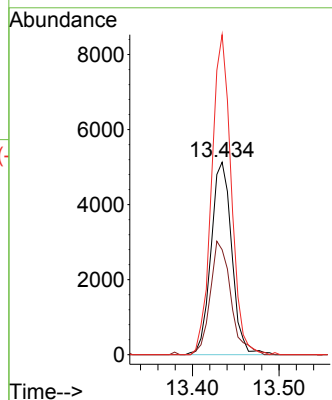
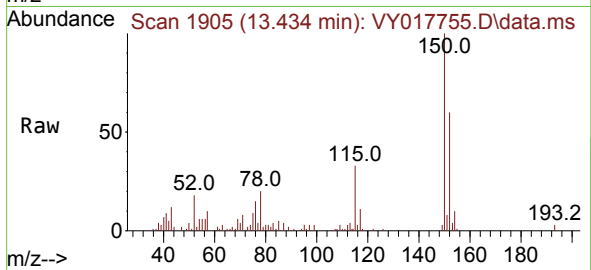




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.434 min Scan# 1905  
Delta R.T. -0.000 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

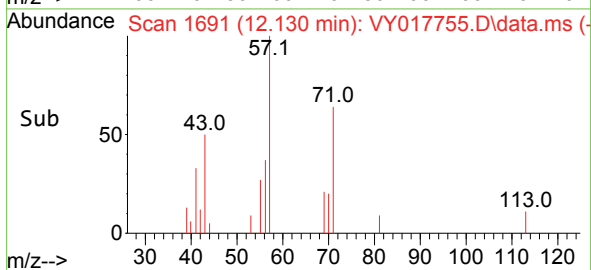
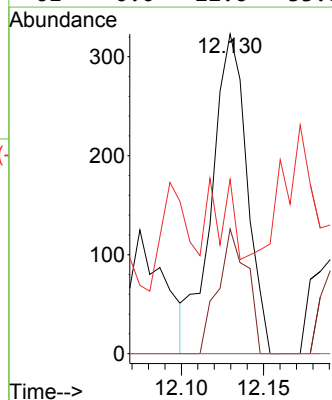
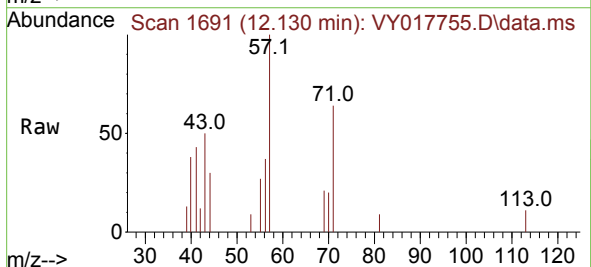
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HD-02-03252024RE

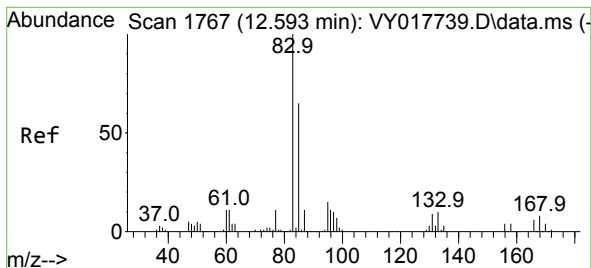
Tgt Ion:152 Resp: 8536  
Ion Ratio Lower Upper  
152 100  
115 58.4 28.2 84.7  
150 157.0 0.0 345.6



#74  
N-ethyl acetate  
Concen: 5.770 ug/l  
RT: 12.130 min Scan# 1691  
Delta R.T. -0.024 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Tgt Ion: 43 Resp: 480  
Ion Ratio Lower Upper  
43 100  
70 32.3 41.4 62.2#  
55 28.3 23.3 34.9  
61 0.0 22.6 33.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.018 ug/l

RT: 12.581 min Scan# 1765

Delta R.T. -0.012 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

HD-02-03252024RE

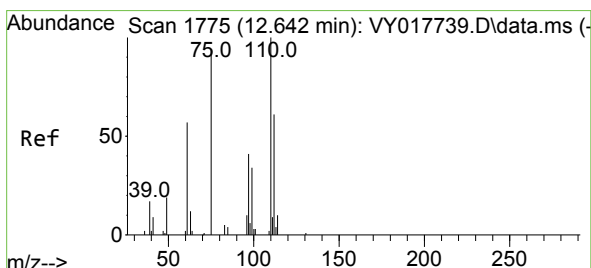
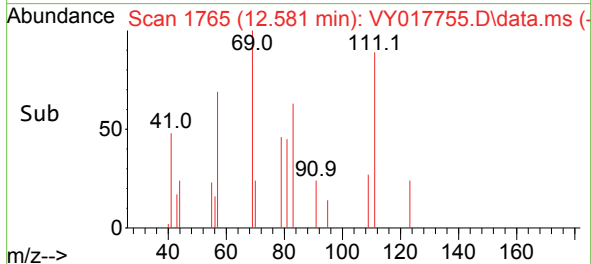
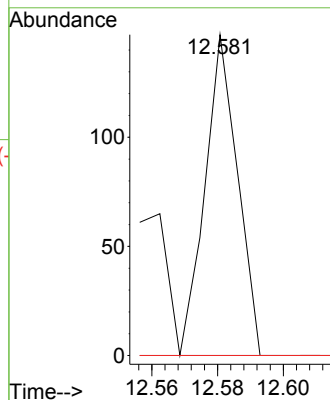
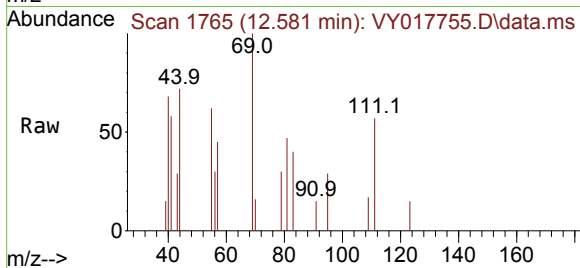
Tgt Ion: 83 Resp: 101

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 51.887 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.152 min

Lab File: VY017755.D

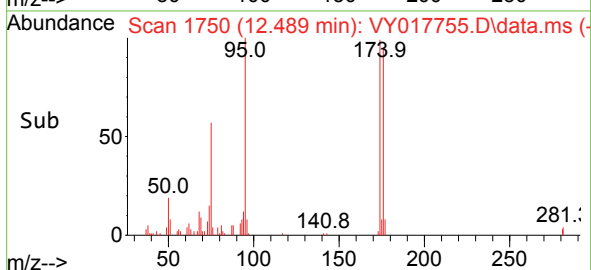
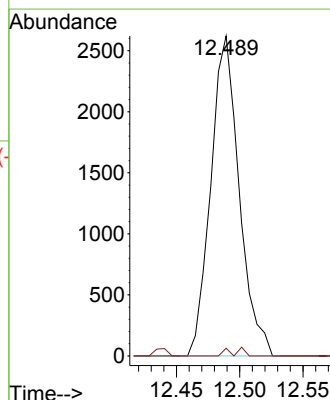
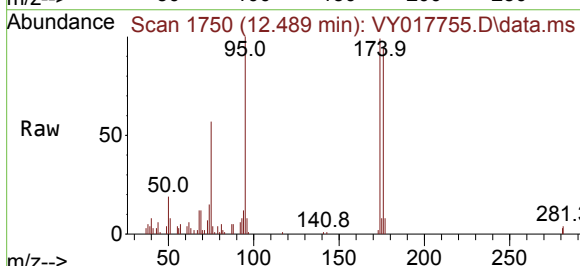
Acq: 25 Mar 2024 17:11

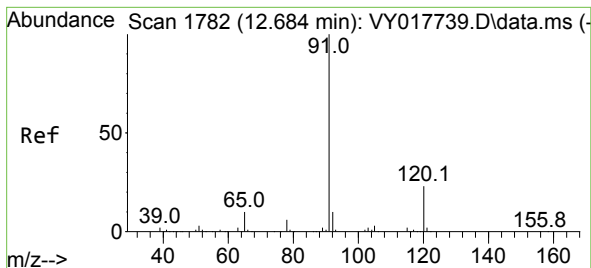
Tgt Ion: 75 Resp: 4090

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#





#78

n-propylbenzene

Concen: 2.466 ug/l

RT: 12.678 min Scan# 1781

Delta R.T. -0.006 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

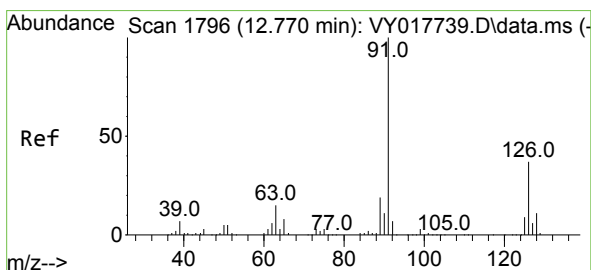
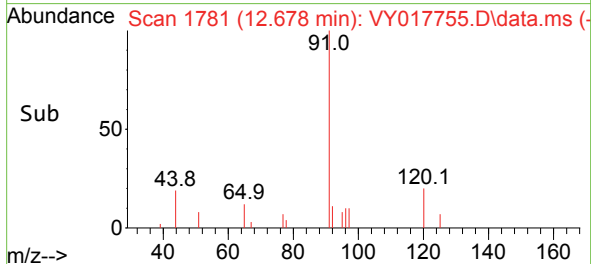
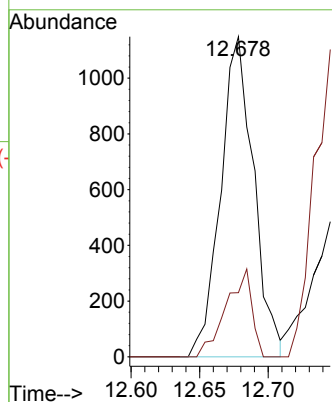
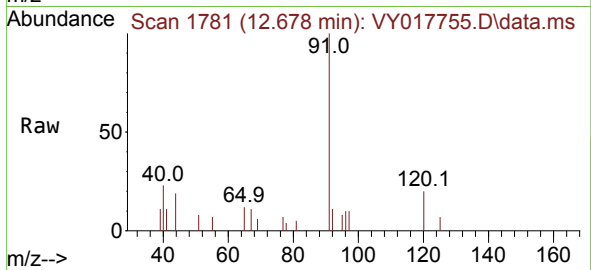
HD-02-03252024RE

Tgt Ion: 91 Resp: 1924

Ion Ratio Lower Upper

91 100

120 21.4 11.5 34.4



#79

2-Chlorotoluene

Concen: 1.227 ug/l

RT: 12.745 min Scan# 1792

Delta R.T. -0.024 min

Lab File: VY017755.D

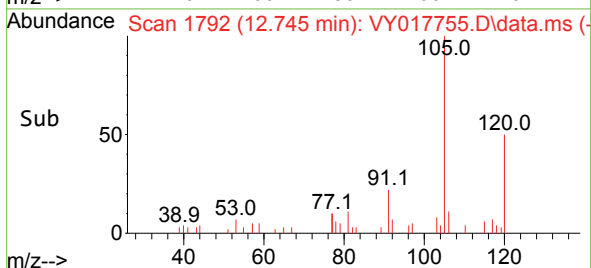
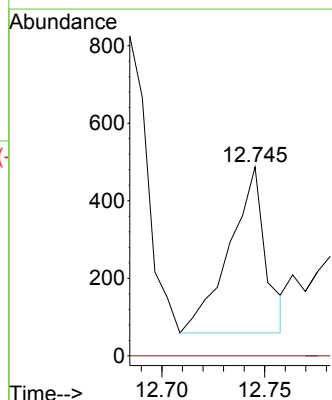
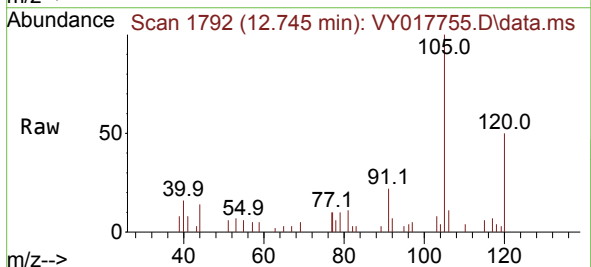
Acq: 25 Mar 2024 17:11

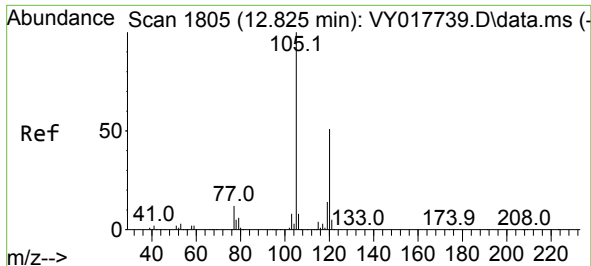
Tgt Ion: 91 Resp: 525

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.5#

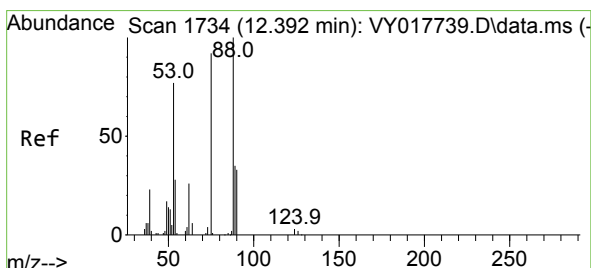
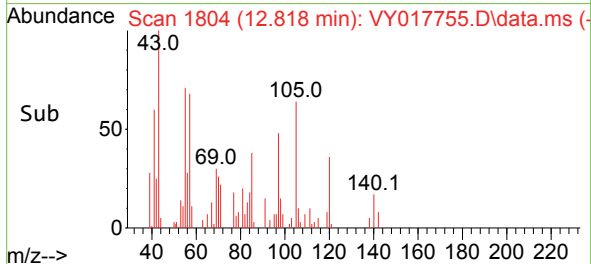
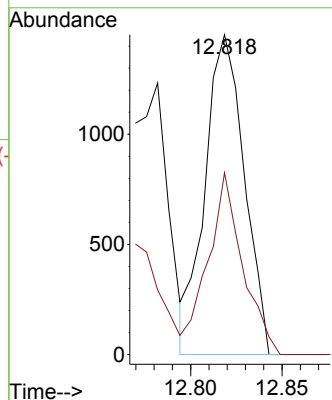
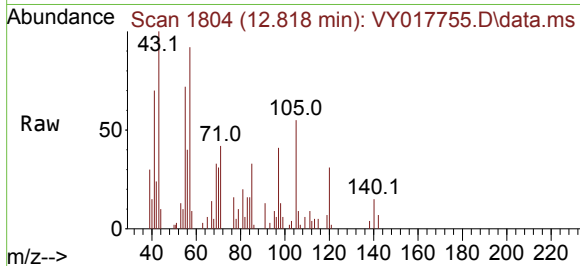




#80  
1,3,5-Trimethylbenzene  
Concen: 4.299 ug/l  
RT: 12.818 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

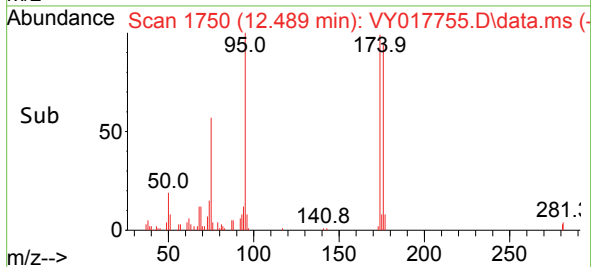
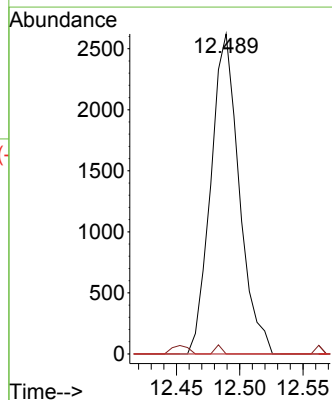
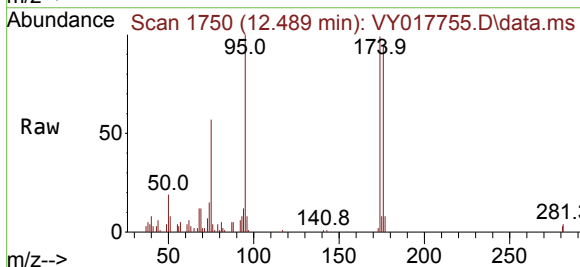
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HD-02-03252024RE

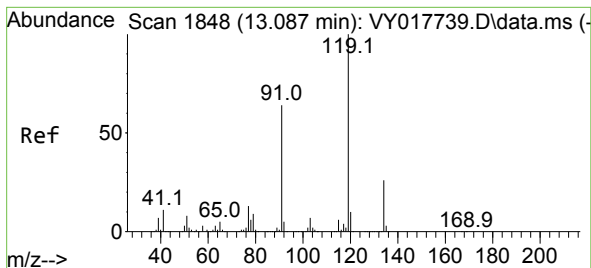
Tgt Ion:105 Resp: 2169  
Ion Ratio Lower Upper  
105 100  
120 50.4 25.1 75.2



#81  
trans-1,4-Dichloro-2-butene  
Concen: 119.896 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.097 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

Tgt Ion: 75 Resp: 4090  
Ion Ratio Lower Upper  
75 100  
53 0.7 66.8 100.2#  
89 0.0 35.8 53.6#





#83

tert-Butylbenzene

Concen: 2.519 ug/l

RT: 13.325 min Scan# 1887

Delta R.T. 0.238 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

HD-02-03252024RE

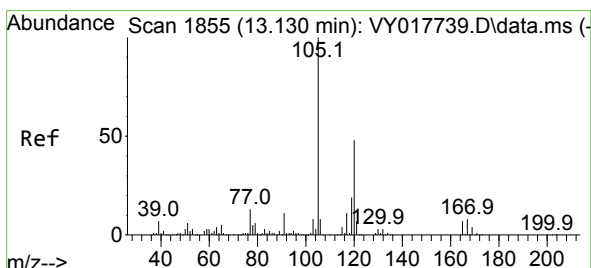
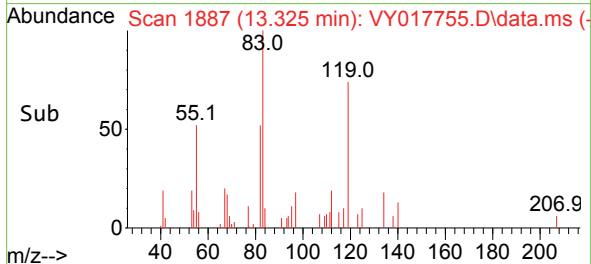
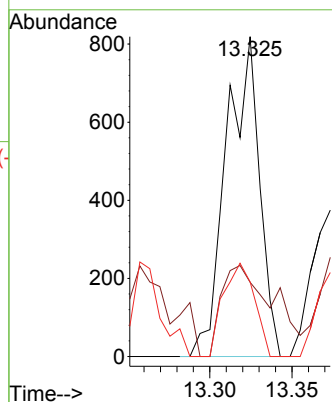
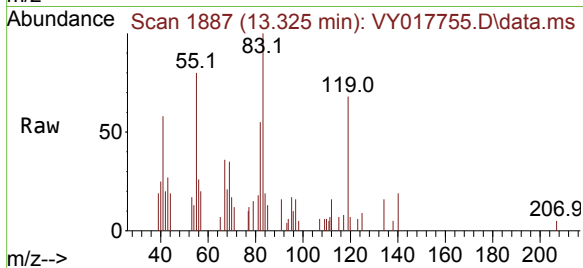
Tgt Ion:119 Resp: 1150

Ion Ratio Lower Upper

119 100

91 44.4 31.3 93.8

134 27.5 13.4 40.1



#84

1,2,4-Trimethylbenzene

Concen: 14.418 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.006 min

Lab File: VY017755.D

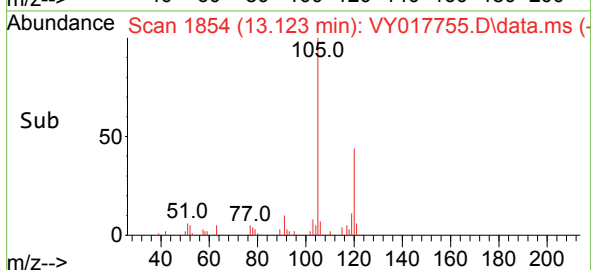
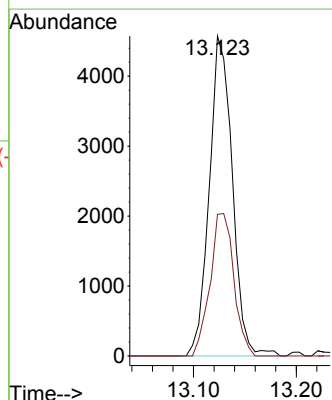
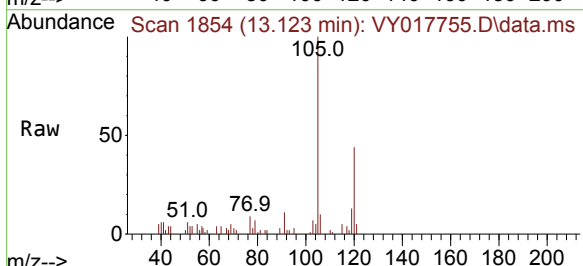
Acq: 25 Mar 2024 17:11

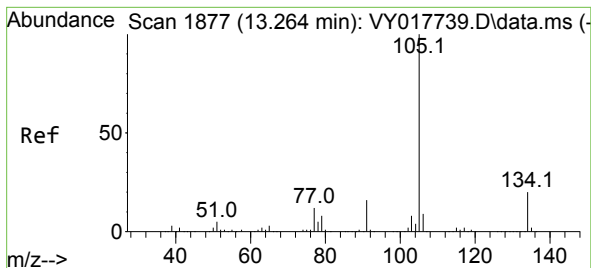
Tgt Ion:105 Resp: 7132

Ion Ratio Lower Upper

105 100

120 45.8 23.2 69.6





#85

sec-Butylbenzene

Concen: 1.860 ug/l

RT: 13.257 min Scan# 1876

Delta R.T. -0.006 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

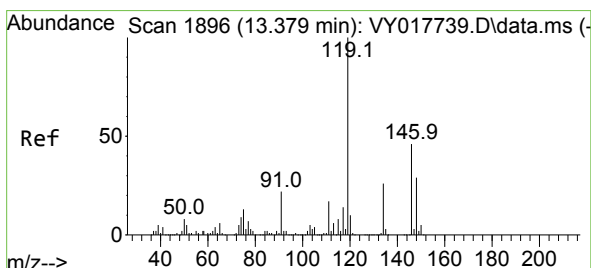
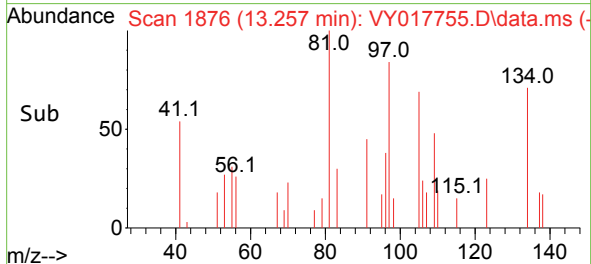
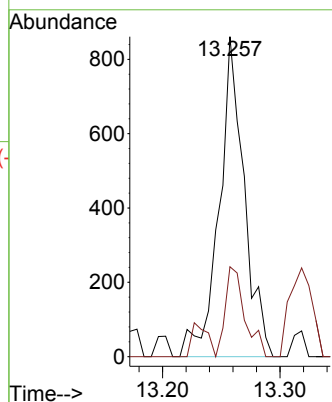
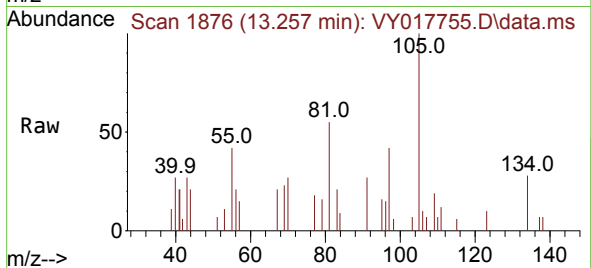
HD-02-03252024RE

Tgt Ion:105 Resp: 1273

Ion Ratio Lower Upper

105 100

134 22.0 10.1 30.1



#86

p-Isopropyltoluene

Concen: 1.144 ug/l

RT: 13.379 min Scan# 1896

Delta R.T. -0.000 min

Lab File: VY017755.D

Acq: 25 Mar 2024 17:11

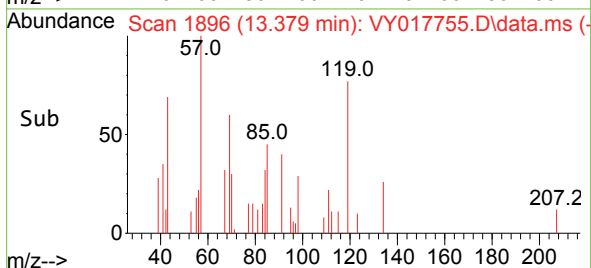
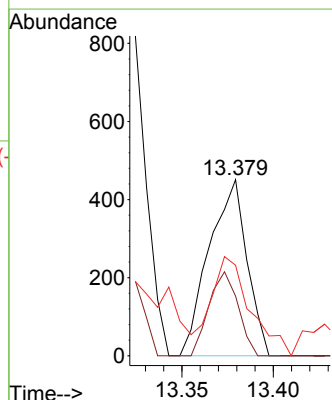
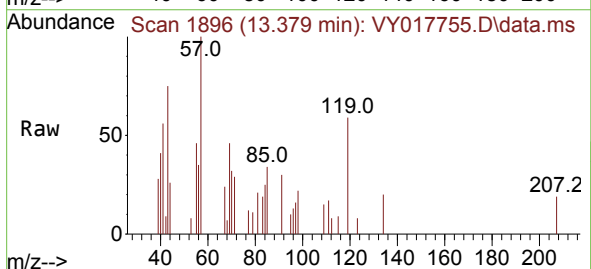
Tgt Ion:119 Resp: 650

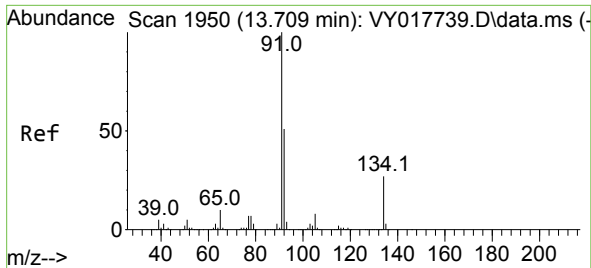
Ion Ratio Lower Upper

119 100

134 36.9 13.1 39.3

91 58.9 10.7 32.1#

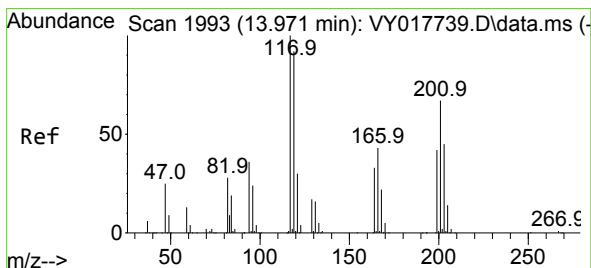
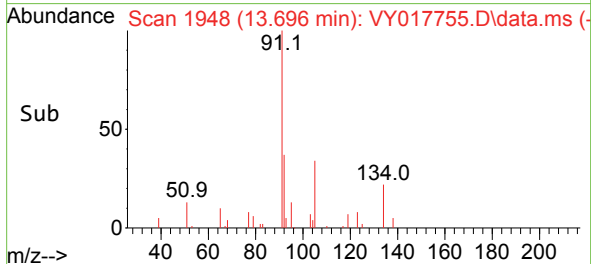
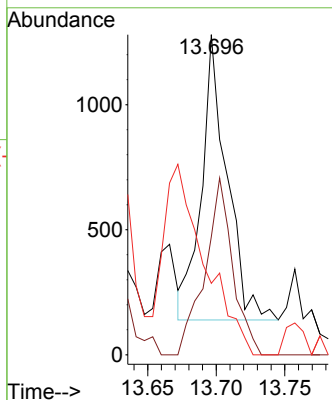
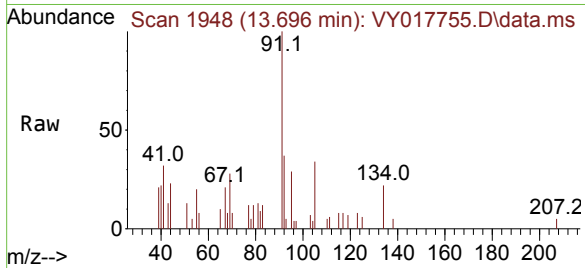




#89  
n-Butylbenzene  
Concen: 2.869 ug/l  
RT: 13.696 min Scan# 1948  
Delta R.T. -0.012 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

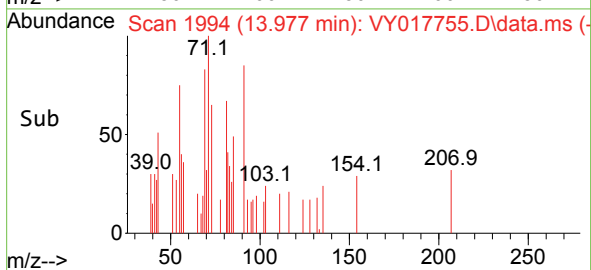
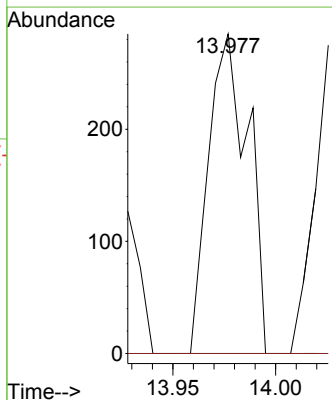
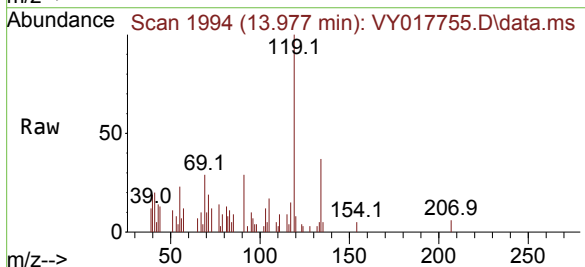
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HD-02-03252024RE

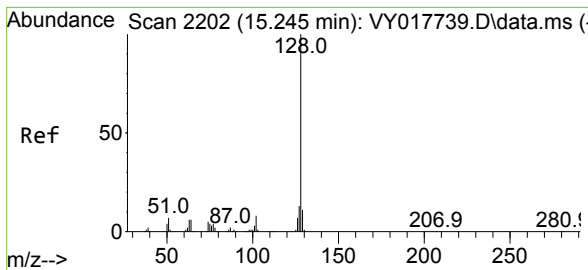
Tgt Ion: 91 Resp: 1475  
Ion Ratio Lower Upper  
91 100  
92 67.5 26.6 79.7  
134 0.0 12.9 38.7#



#90  
Hexachloroethane  
Concen: 3.288 ug/l  
RT: 13.977 min Scan# 1994  
Delta R.T. 0.006 min  
Lab File: VY017755.D  
Acq: 25 Mar 2024 17:11

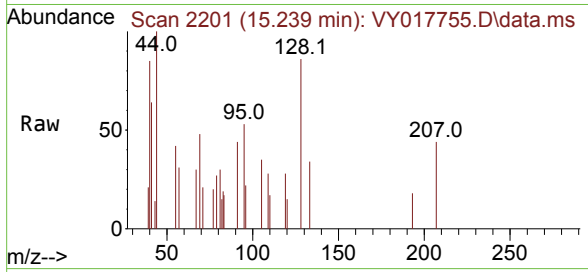
Tgt Ion: 117 Resp: 381  
Ion Ratio Lower Upper  
117 100  
201 0.0 37.4 112.2#





#95  
 Naphthalene  
 Concen: 4.481 ug/l  
 RT: 15.239 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VY017755.D  
 Acq: 25 Mar 2024 17:11

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HD-02-03252024RE



Tgt Ion:128 Resp: 436  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.6 16.0#  
 129 0.0 8.6 13.0#

