

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020123\  
 Data File : VY012439.D  
 Acq On : 01 Feb 2023 13:53  
 Operator : KP/MD  
 Sample : 01374-03  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 JC-3-13123-B

Quant Time: Feb 01 23:04:37 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 04:31:47 2023  
 Response via : Initial Calibration

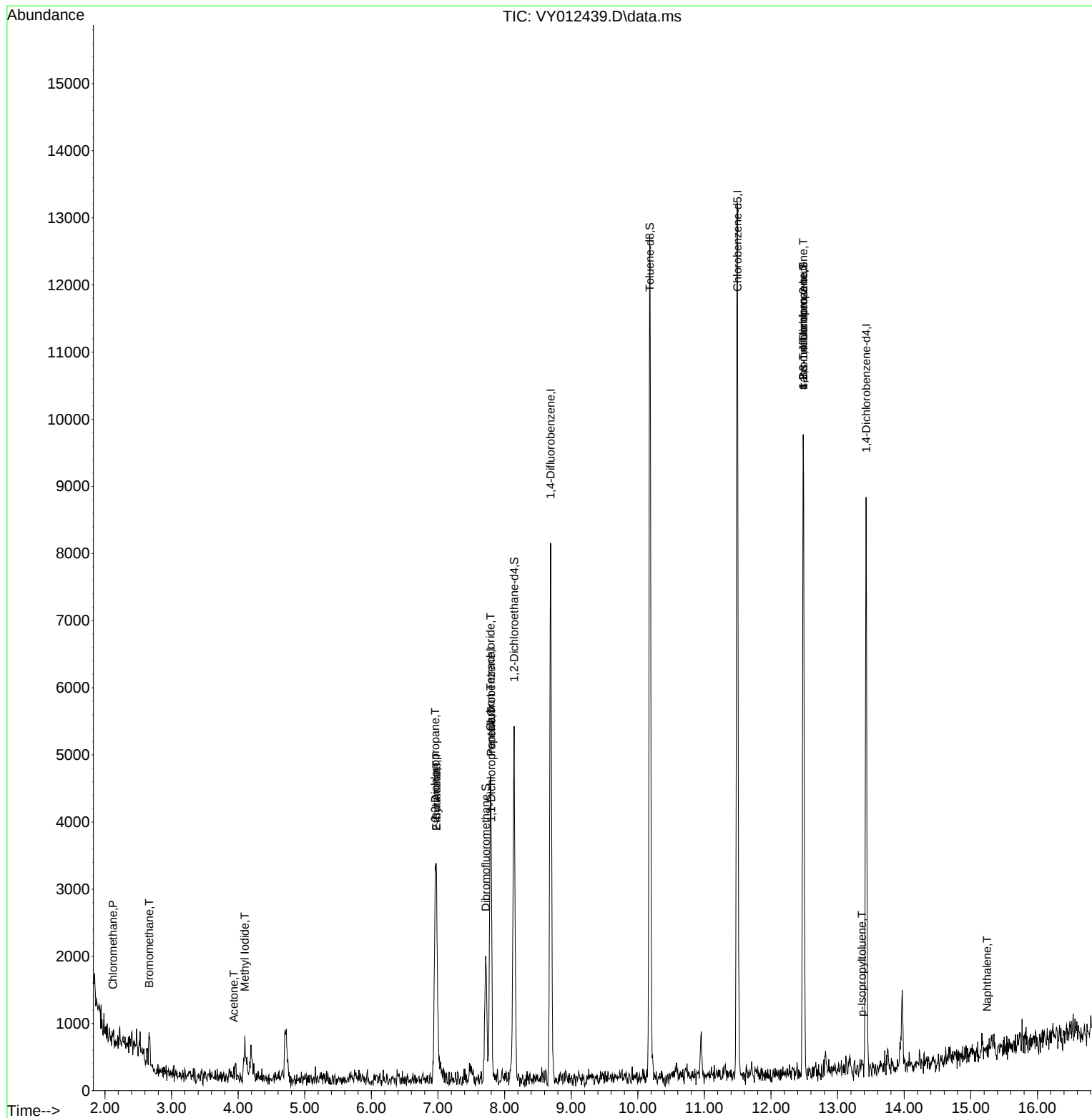
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.795          | 168  | 4248                 | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 7798                 | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.496         | 117  | 8353                 | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 2520                 | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143          | 65   | 4038                 | 120.200   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 240.400%# |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 1457                 | 35.287    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 70.580%   |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 9450                 | 67.577    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 135.160%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 3021                 | 51.901    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 103.800%  |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        | Qvalue   |
| 3) Chloromethane              | 2.119          | 50   | 206                  | 6.011     | ug/l # | 41       |
| 5) Bromomethane               | 2.662          | 94   | 277                  | 8.957     | ug/l   | 94       |
| 10) Methyl Iodide             | 4.101          | 142  | 922                  | 15.967    | ug/l # | 81       |
| 16) Acetone                   | 3.936          | 43   | 52                   | 4.396     | ug/l # | 40       |
| 20) Methylene Chloride        | 4.704          | 84   | 305                  | Below Cal | #      | 64       |
| 25) 2-Butanone                | 6.978          | 43   | 44                   | 3.369     | ug/l # | 46       |
| 26) 2,2-Dichloropropane       | 6.960          | 77   | 219                  | 3.024     | ug/l # | 53       |
| 36) 1,1-Dichloropropene       | 7.801          | 75   | 258                  | 3.677     | ug/l # | 41       |
| 37) Ethyl Acetate             | 6.978          | 43   | 44                   | 1.422     | ug/l # | 1        |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 371                  | 4.094     | ug/l # | 14       |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 1607                 | 69.350    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 1607                 | 142.892   | ug/l # | 13       |
| 86) p-Isopropyltoluene        | 13.367         | 119  | 175                  | 1.022     | ug/l # | 50       |
| 95) Naphthalene               | 15.245         | 128  | 113                  | 1.151     | ug/l # | 69       |
| -----                         |                |      |                      |           |        |          |

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

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MSVOA\_Y  
ClientSampleId :  
JC-3-13123-B

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QLast Update : Tue Jan 17 04:31:47 2023  
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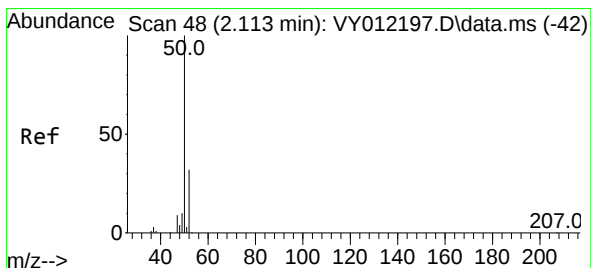
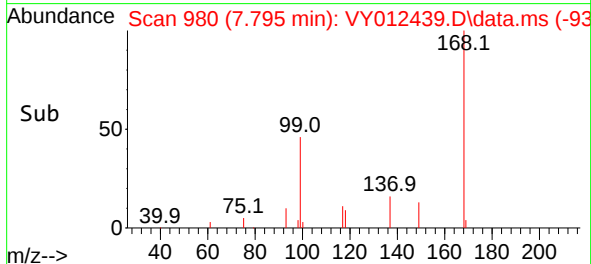
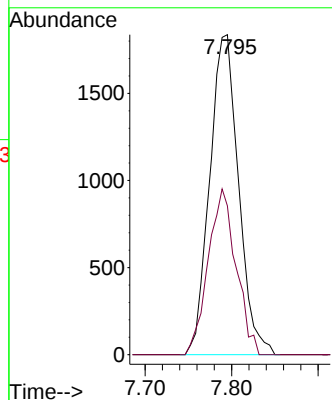
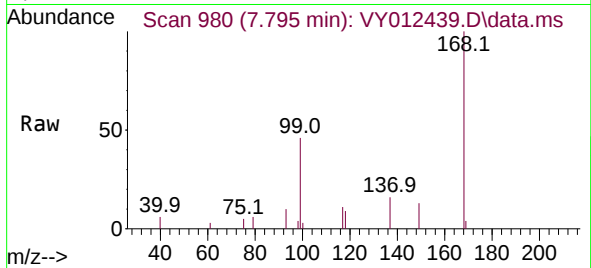




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

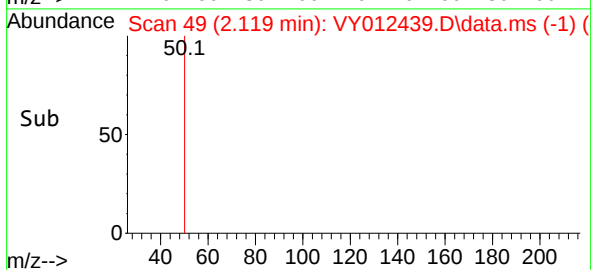
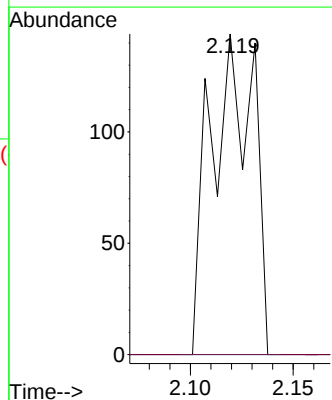
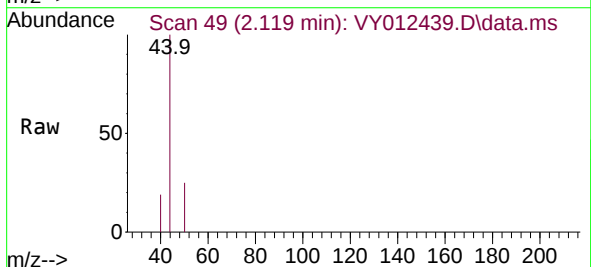
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JC-3-13123-B

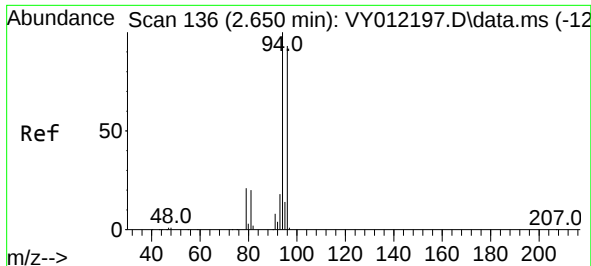
Tgt Ion:168 Resp: 4248  
Ion Ratio Lower Upper  
168 100  
99 46.5 44.0 66.0



#3  
Chloromethane  
Concen: 6.011 ug/l  
RT: 2.119 min Scan# 49  
Delta R.T. 0.006 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

Tgt Ion: 50 Resp: 206  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#

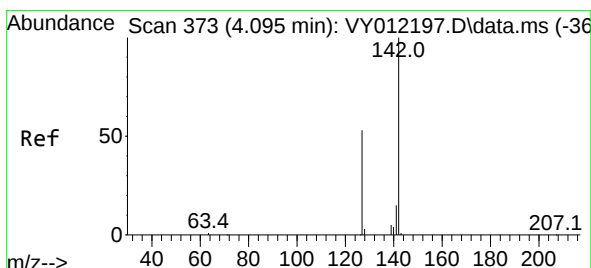
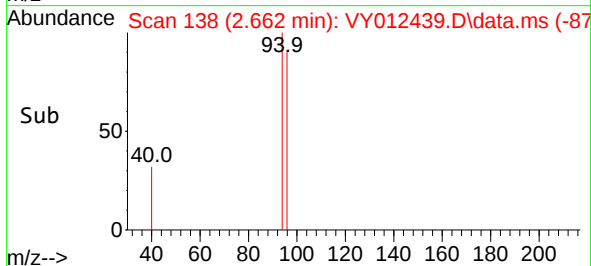
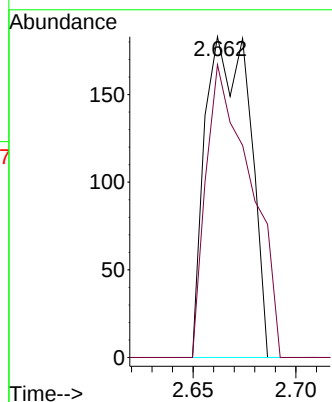
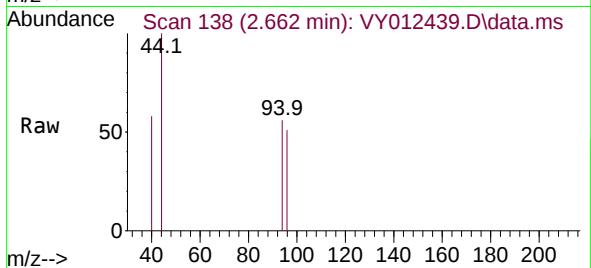




#5  
Bromomethane  
Concen: 8.957 ug/l  
RT: 2.662 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

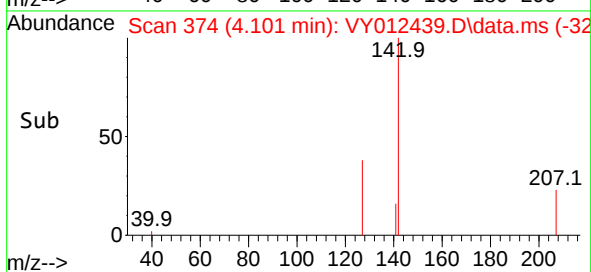
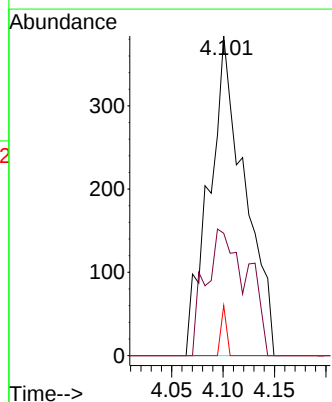
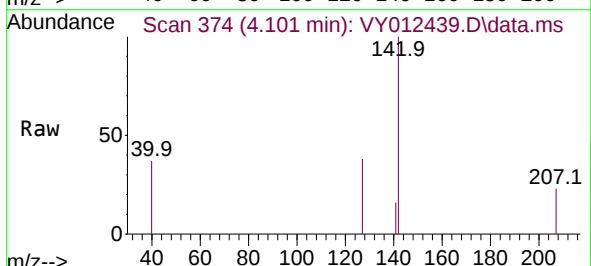
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JC-3-13123-B

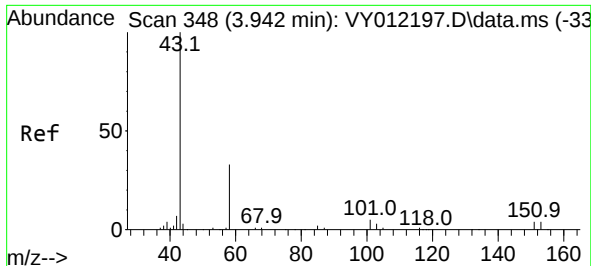
Tgt Ion: 94 Resp: 277  
Ion Ratio Lower Upper  
94 100  
96 91.3 77.4 116.2



#10  
Methyl Iodide  
Concen: 15.967 ug/l  
RT: 4.101 min Scan# 374  
Delta R.T. 0.006 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

Tgt Ion:142 Resp: 922  
Ion Ratio Lower Upper  
142 100  
127 35.5 37.0 55.4#  
141 2.4 11.4 17.0#

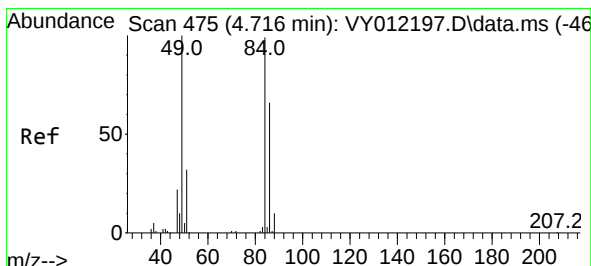
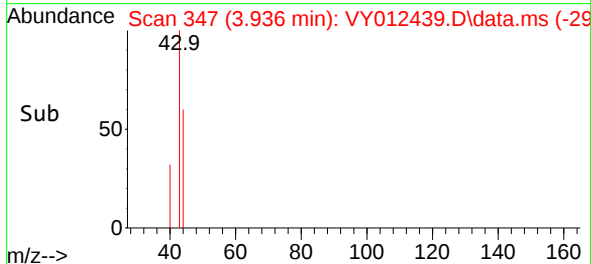
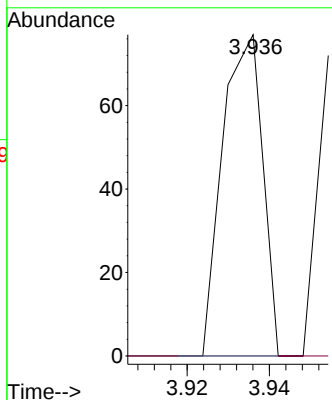
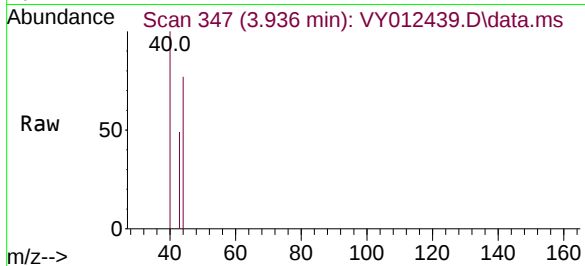




#16  
Acetone  
Concen: 4.396 ug/l  
RT: 3.936 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

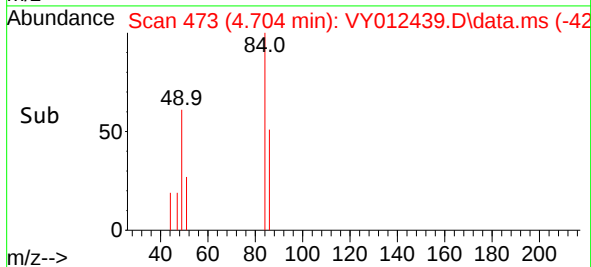
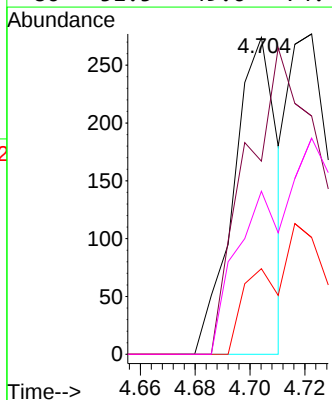
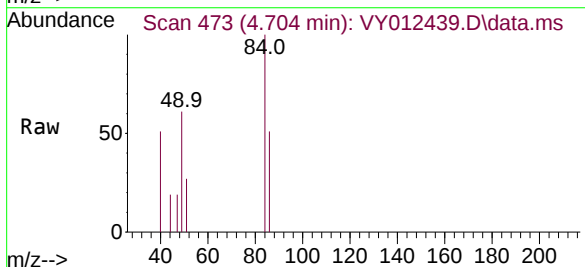
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JC-3-13123-B

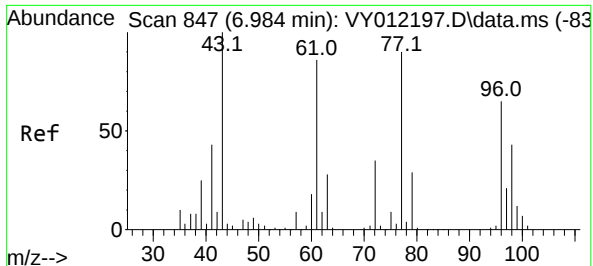
Tgt Ion: 43 Resp: 52  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.9 41.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.704 min Scan# 473  
Delta R.T. -0.012 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

Tgt Ion: 84 Resp: 305  
Ion Ratio Lower Upper  
84 100  
49 60.9 95.4 143.2#  
51 27.0 29.9 44.9#  
86 51.5 49.6 74.4





#25

2-Butanone

Concen: 3.369 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY012439.D

Acq: 01 Feb 2023 13:53

Instrument :

MSVOA\_Y

ClientSampleId :

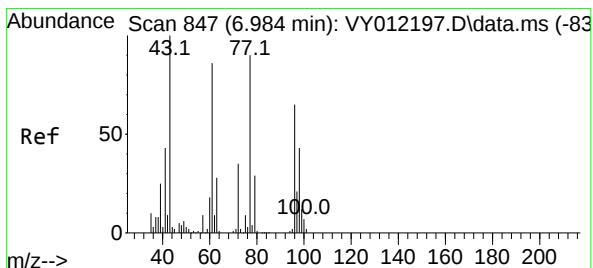
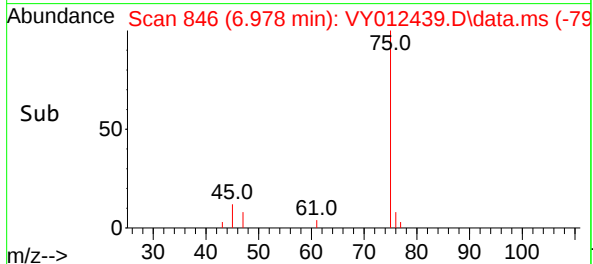
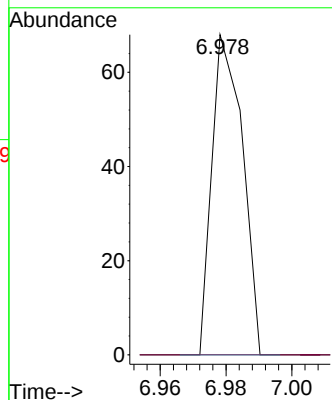
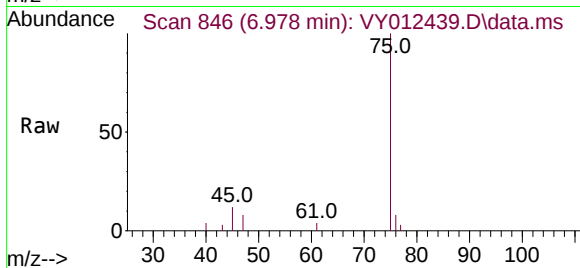
JC-3-13123-B

Tgt Ion: 43 Resp: 44

Ion Ratio Lower Upper

43 100

72 0.0 22.6 34.0#



#26

2,2-Dichloropropane

Concen: 3.024 ug/l

RT: 6.960 min Scan# 843

Delta R.T. -0.018 min

Lab File: VY012439.D

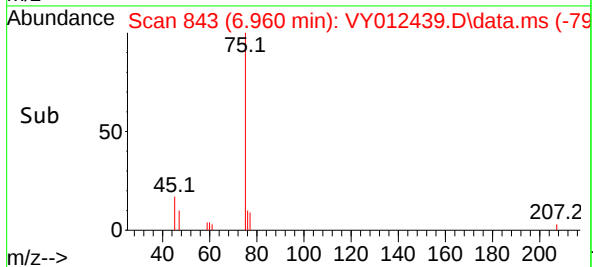
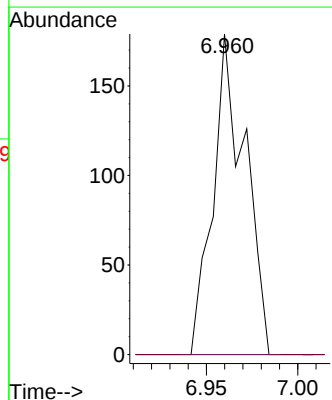
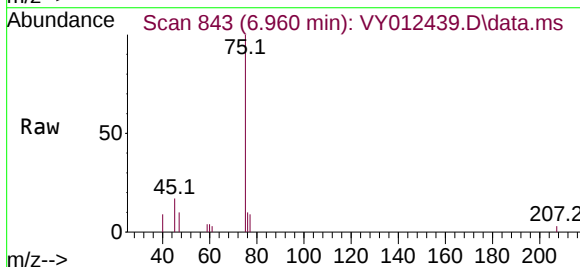
Acq: 01 Feb 2023 13:53

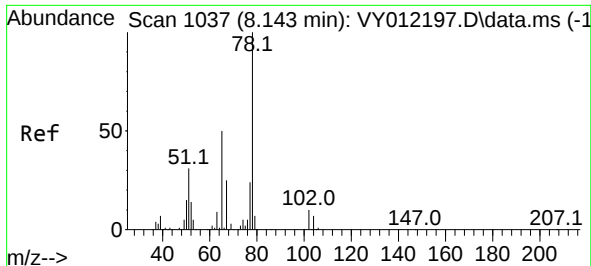
Tgt Ion: 77 Resp: 219

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#

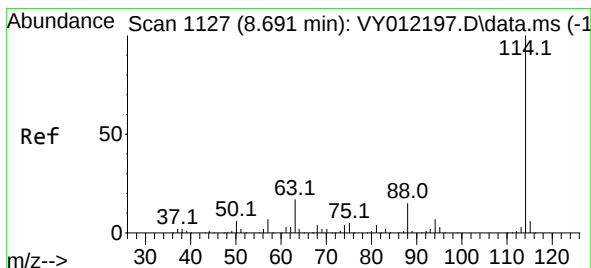
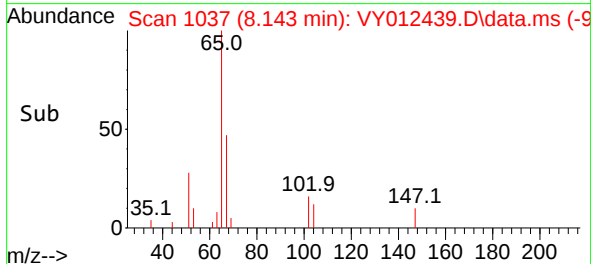
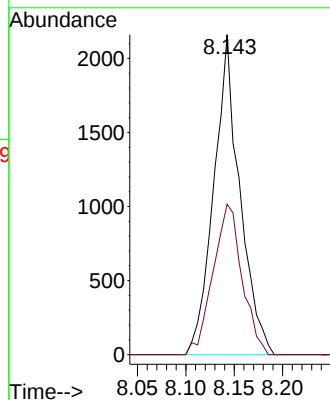
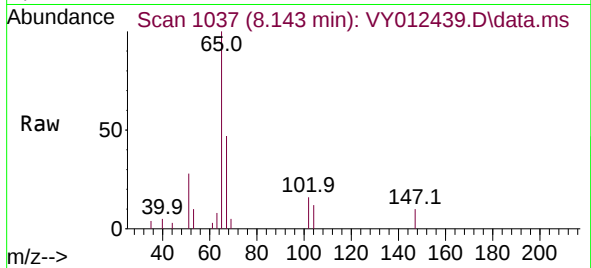




#33  
 1,2-Dichloroethane-d4  
 Concen: 120.200 ug/l  
 RT: 8.143 min Scan# 1037  
 Delta R.T. -0.000 min  
 Lab File: VY012439.D  
 Acq: 01 Feb 2023 13:53

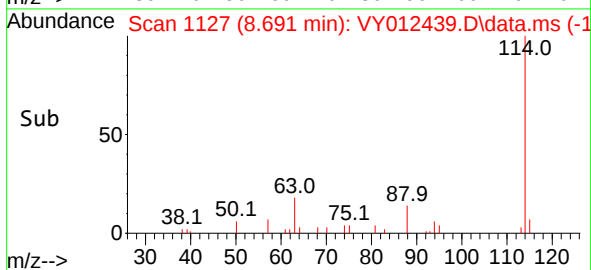
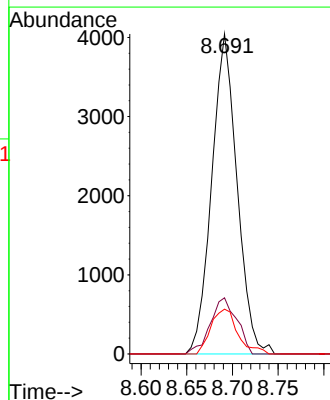
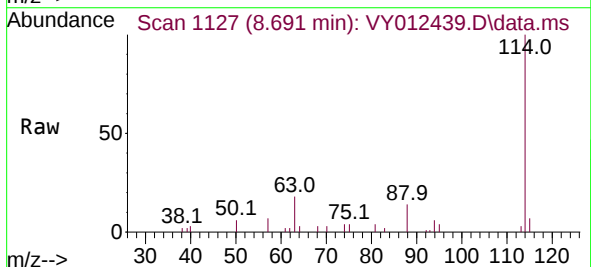
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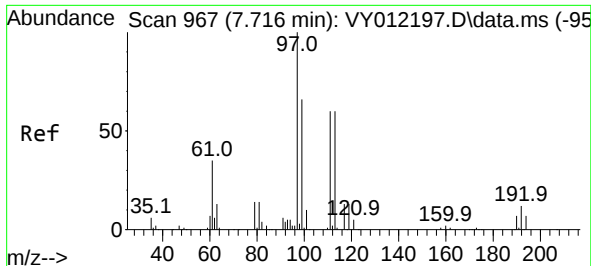
Tgt Ion: 65 Resp: 4038  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 103.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.691 min Scan# 1127  
 Delta R.T. 0.000 min  
 Lab File: VY012439.D  
 Acq: 01 Feb 2023 13:53

Tgt Ion: 114 Resp: 7798  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 39.6  
 88 14.0 0.0 32.2

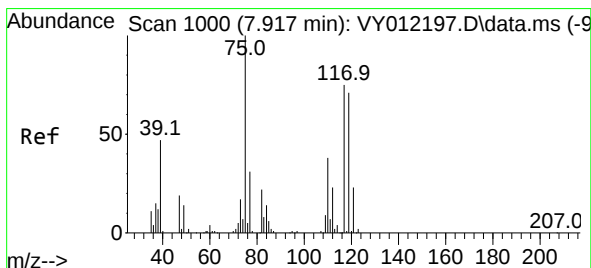
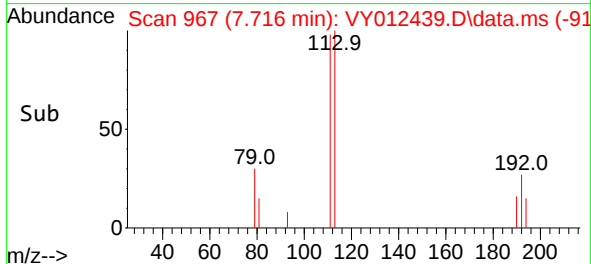
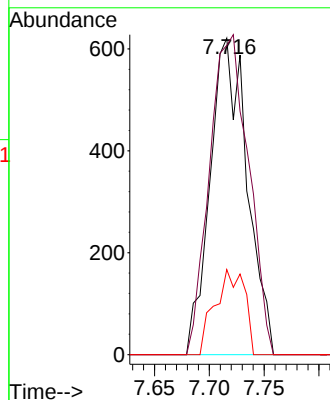
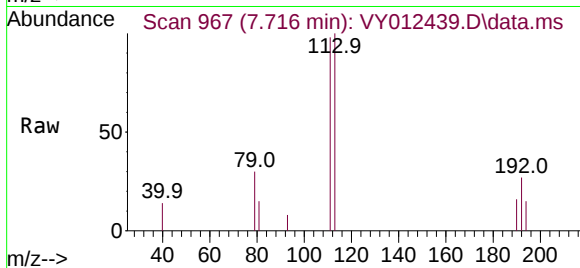




#35  
Dibromofluoromethane  
Concen: 35.287 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

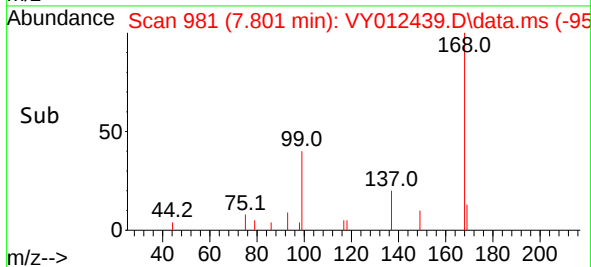
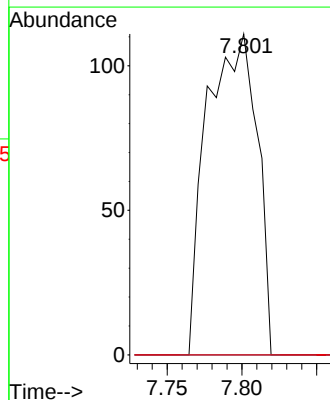
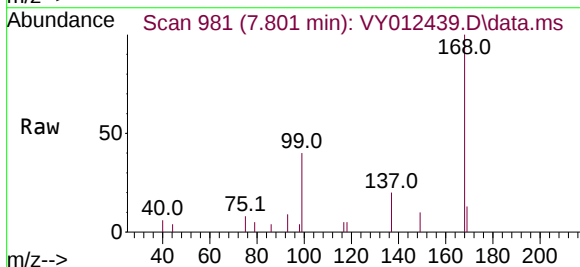
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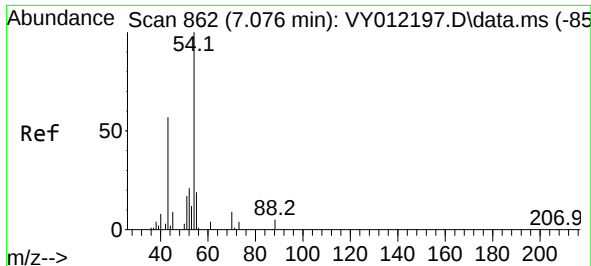
Tgt Ion:113 Resp: 1457  
Ion Ratio Lower Upper  
113 100  
111 106.7 83.0 124.4  
192 21.4 16.0 24.0



#36  
1,1-Dichloropropene  
Concen: 3.677 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. -0.116 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

Tgt Ion: 75 Resp: 258  
Ion Ratio Lower Upper  
75 100  
110 0.0 18.1 54.1#  
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 1.422 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.098 min

Lab File: VY012439.D

Acq: 01 Feb 2023 13:53

Instrument :

MSVOA\_Y

ClientSampleId :

JC-3-13123-B

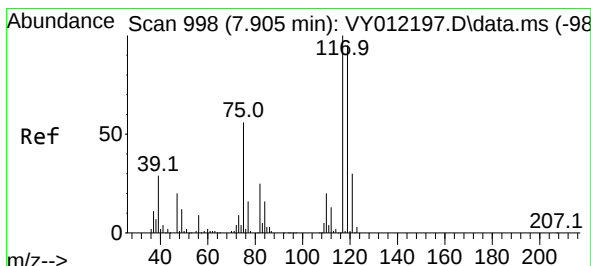
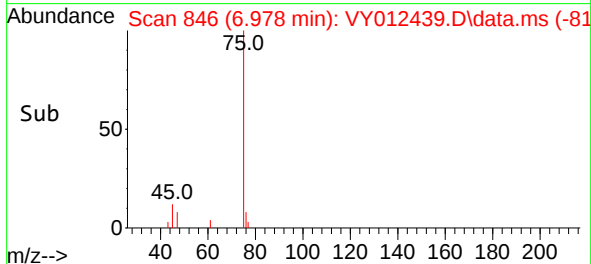
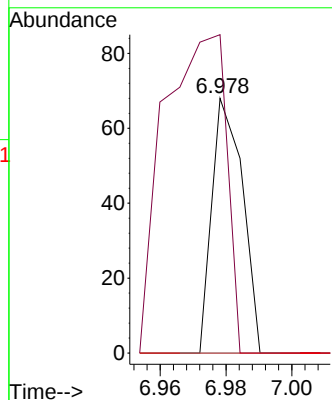
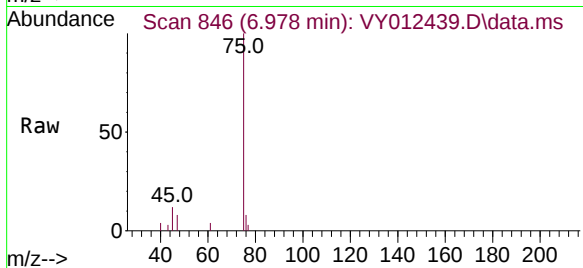
Tgt Ion: 43 Resp: 44

Ion Ratio Lower Upper

43 100

61 309.1 11.3 16.9#

70 0.0 8.2 12.4#



#38

Carbon Tetrachloride

Concen: 4.094 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY012439.D

Acq: 01 Feb 2023 13:53

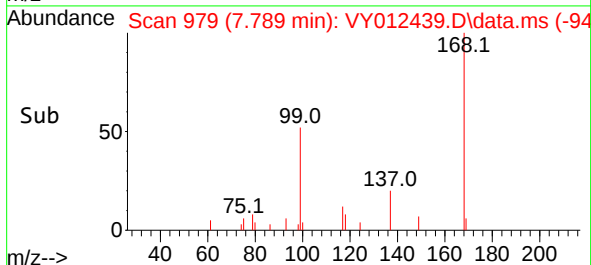
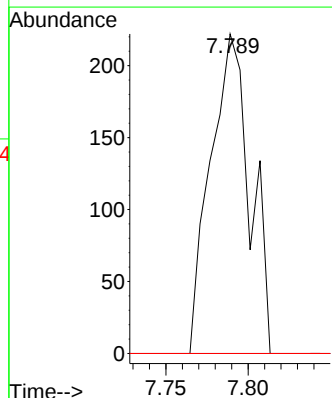
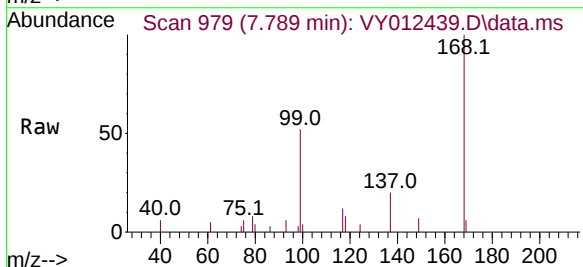
Tgt Ion: 117 Resp: 371

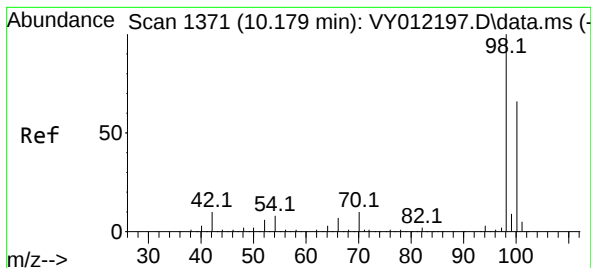
Ion Ratio Lower Upper

117 100

119 0.0 73.8 110.8#

121 0.0 25.2 37.8#





#50

Toluene-d8

Concen: 67.577 ug/l

RT: 10.179 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY012439.D

Acq: 01 Feb 2023 13:53

Instrument :

MSVOA\_Y

ClientSampleId :

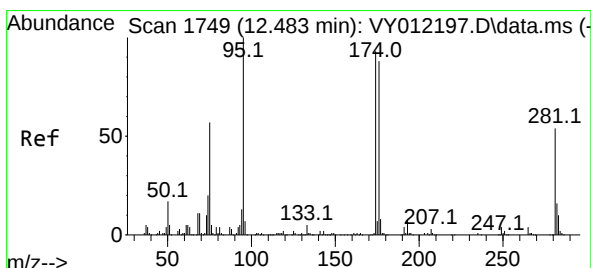
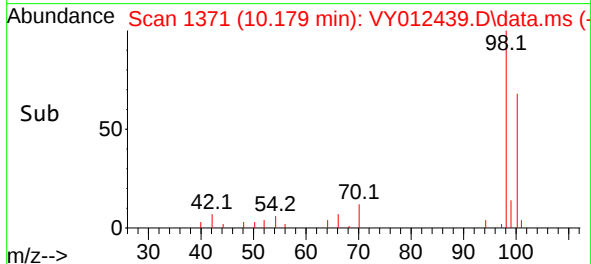
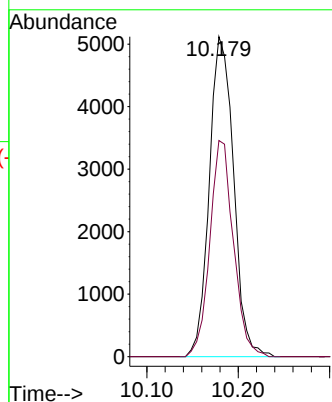
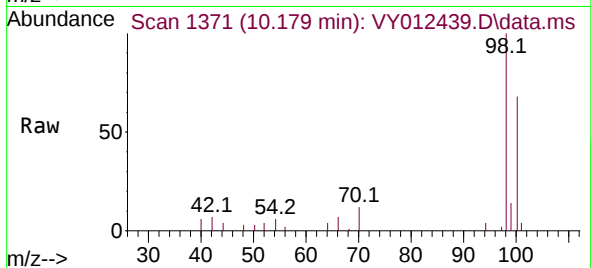
JC-3-13123-B

Tgt Ion: 98 Resp: 9450

Ion Ratio Lower Upper

98 100

100 65.7 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 51.901 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY012439.D

Acq: 01 Feb 2023 13:53

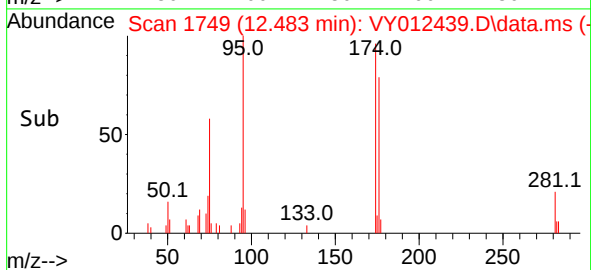
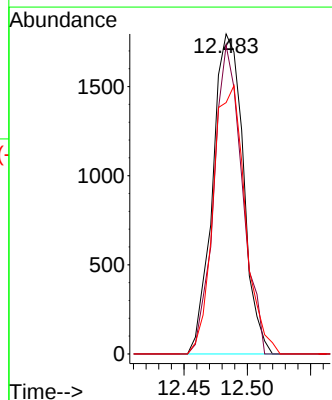
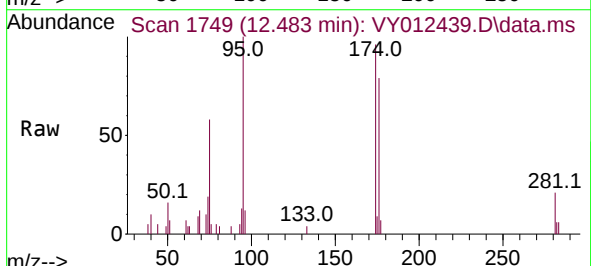
Tgt Ion: 95 Resp: 3021

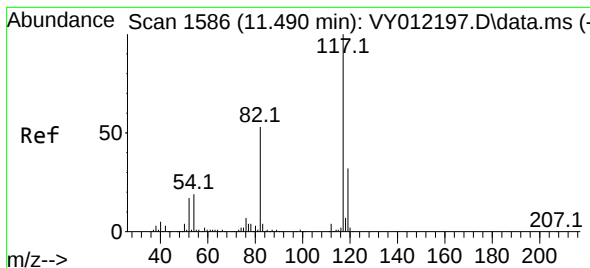
Ion Ratio Lower Upper

95 100

174 89.1 0.0 172.0

176 87.2 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 117

Delta R.T. 0.006 min

Lab File: VY012439.D

Acq: 01 Feb 2023 13:53

Instrument :

MSVOA\_Y

ClientSampleId :

JC-3-13123-B

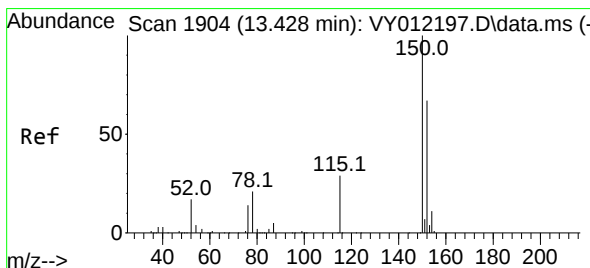
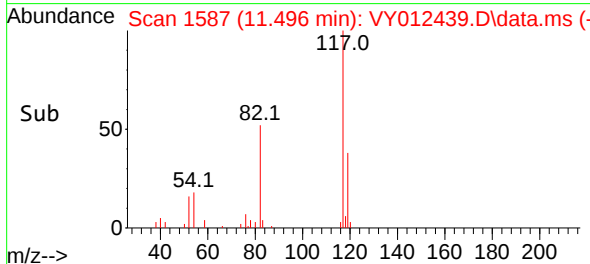
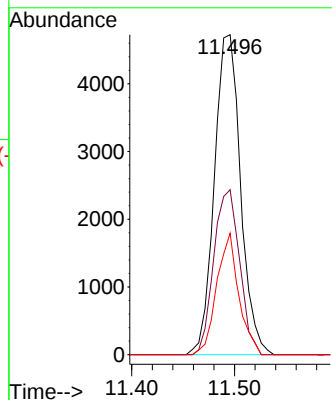
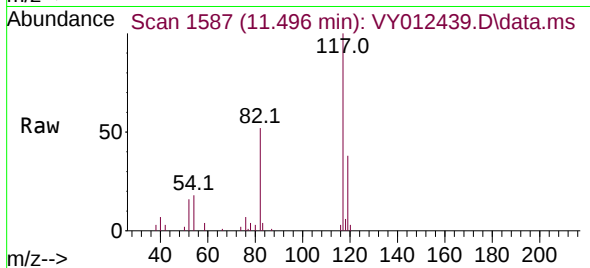
Tgt Ion:117 Resp: 8353

Ion Ratio Lower Upper

117 100

82 51.6 44.8 67.2

119 38.0 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY012439.D

Acq: 01 Feb 2023 13:53

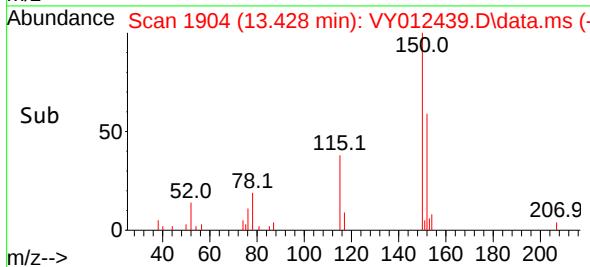
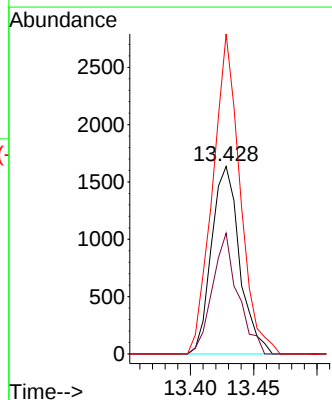
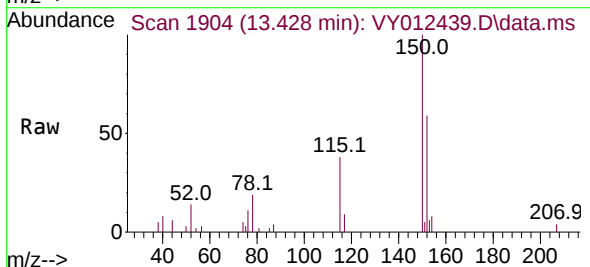
Tgt Ion:152 Resp: 2520

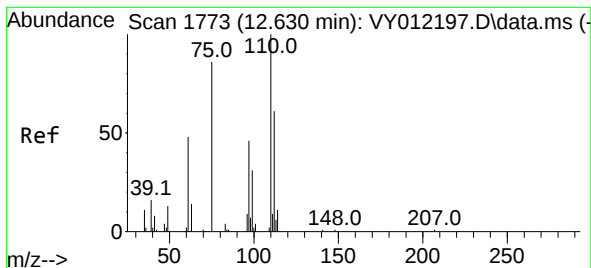
Ion Ratio Lower Upper

152 100

115 58.5 29.1 87.3

150 166.3 0.0 342.6

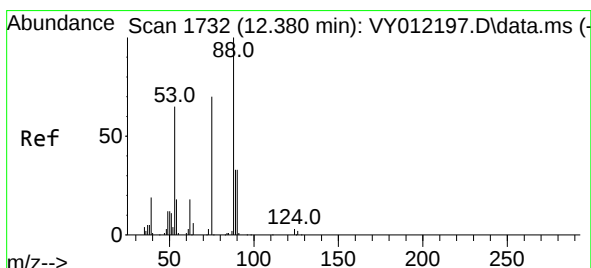
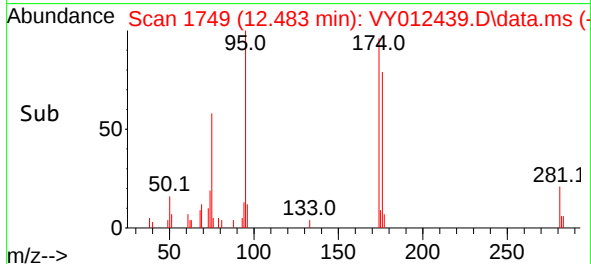
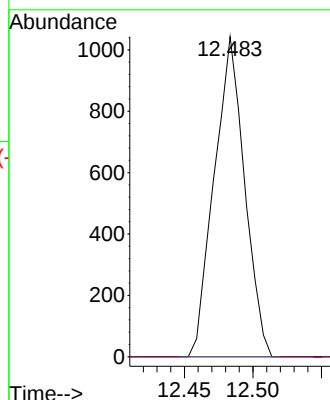
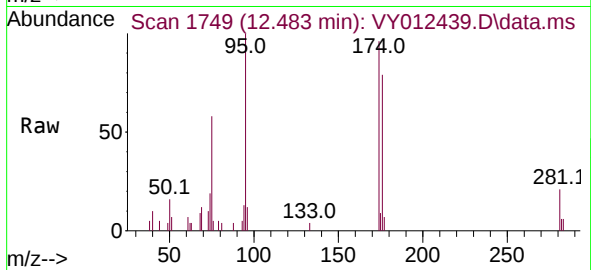




#76  
1,2,3-Trichloropropane  
Concen: 69.350 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.147 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

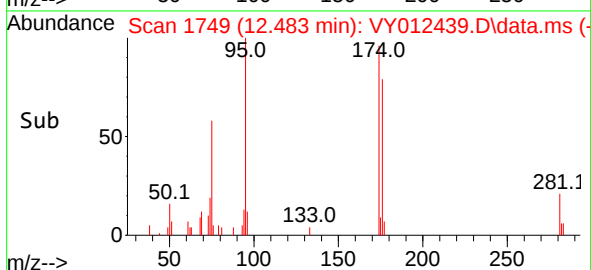
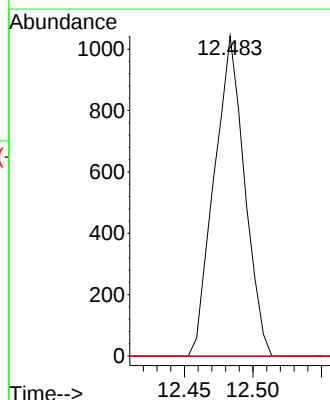
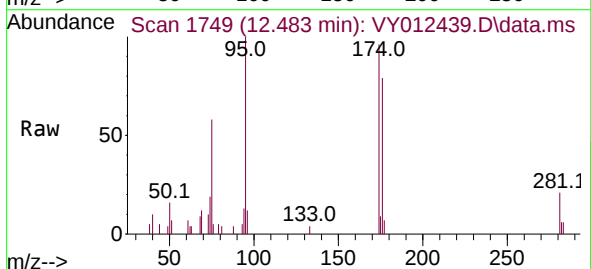
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JC-3-13123-B

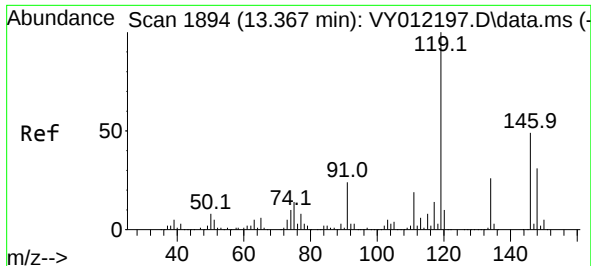
Tgt Ion: 75 Resp: 1607  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 142.892 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.109 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

Tgt Ion: 75 Resp: 1607  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.5 108.7#  
89 0.0 37.0 55.4#

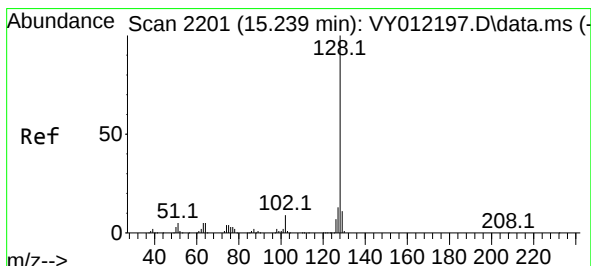
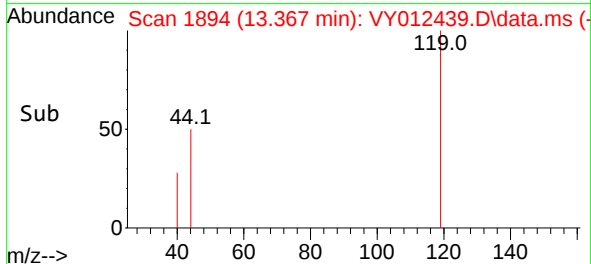
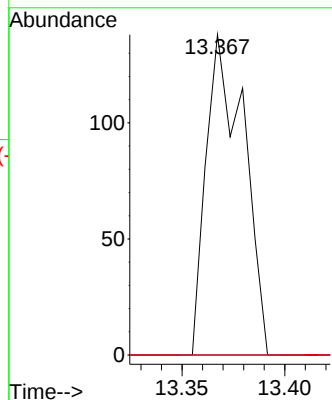
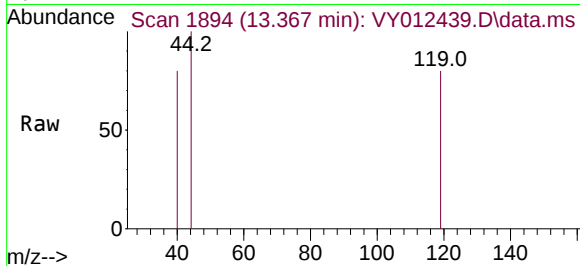




#86  
p-Isopropyltoluene  
Concen: 1.022 ug/l  
RT: 13.367 min Scan# 119  
Delta R.T. 0.000 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

Instrument :  
MSVOA\_Y  
ClientSampleId :  
JC-3-13123-B

Tgt Ion:119 Resp: 175  
Ion Ratio Lower Upper  
119 100  
134 0.0 13.0 39.0#  
91 0.0 11.9 35.9#



#95  
Naphthalene  
Concen: 1.151 ug/l  
RT: 15.245 min Scan# 2202  
Delta R.T. 0.012 min  
Lab File: VY012439.D  
Acq: 01 Feb 2023 13:53

Tgt Ion:128 Resp: 113  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.2#  
129 0.0 8.8 13.2#

