

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
 Data File : VY016878.D  
 Acq On : 27 Dec 2023 15:23  
 Operator : SY/MD  
 Sample : 05994-12RE  
 Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-D-GRAB

Quant Time: Dec 28 03:45:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 2023  
 Response via : Initial Calibration

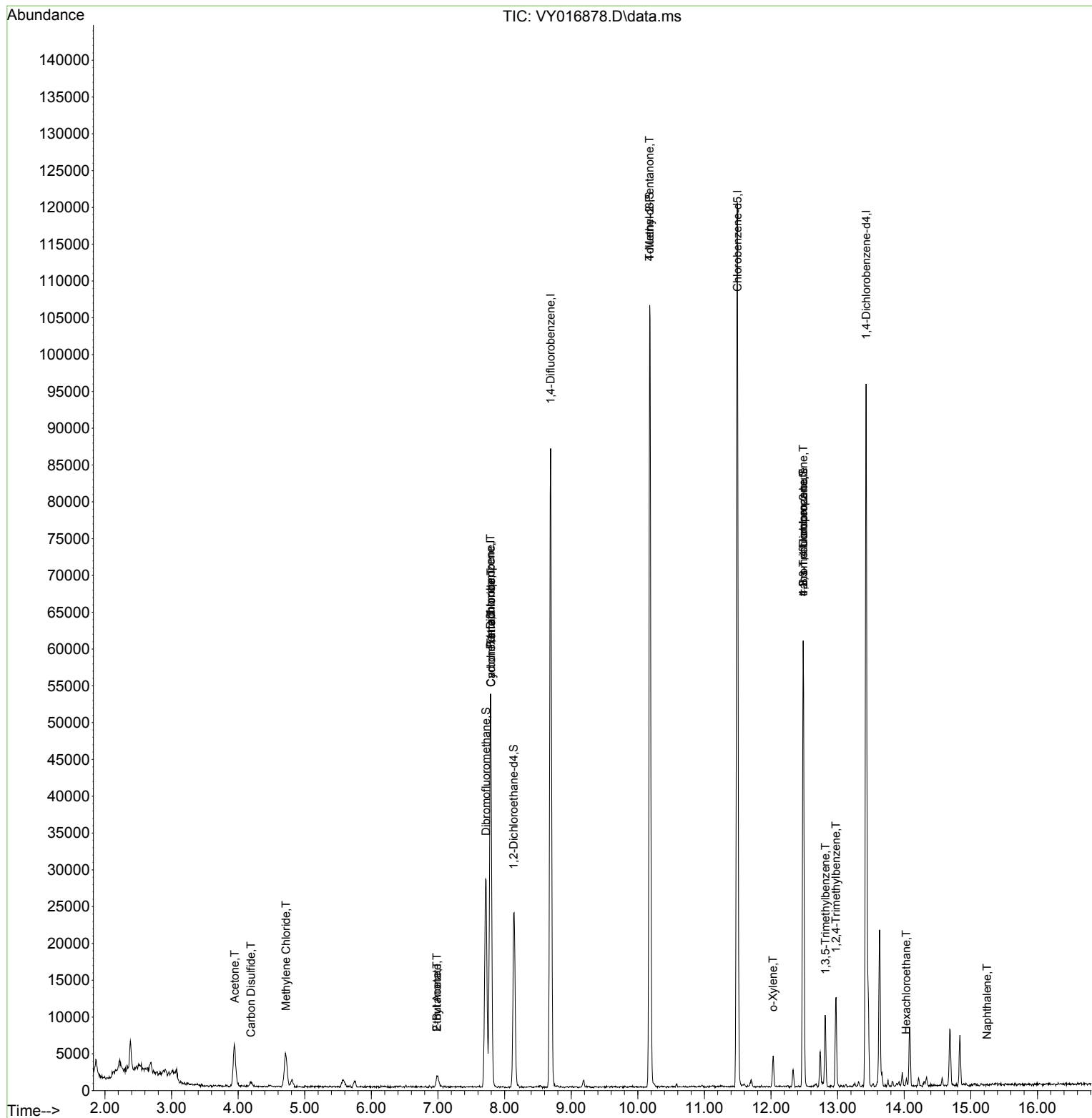
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 39076    | 50.000   | ug/l       | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 72890    | 50.000   | ug/l       | -0.01    |
| 63) Chlorobenzene-d5          | 11.496    | 117   | 66103    | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 23280    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136     | 65    | 18728    | 52.500   | ug/l       | -0.02    |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | = 105.000% |          |
| 35) Dibromofluoromethane      | 7.722     | 113   | 20905    | 50.068   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | = 100.140% |          |
| 50) Toluene-d8                | 10.179    | 98    | 71495    | 47.500   | ug/l       | -0.01    |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery | = 95.000%  |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 18907    | 38.719   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery | = 77.440%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 16) Acetone                   | 3.948     | 43    | 10234    | 106.094  | ug/l       | 93       |
| 17) Carbon Disulfide          | 4.192     | 76    | 1327     | 1.322    | ug/l #     | 83       |
| 20) Methylene Chloride        | 4.716     | 84    | 3483     | 4.287    | ug/l       | 96       |
| 25) 2-Butanone                | 6.984     | 43    | 3038     | 22.875   | ug/l       | 92       |
| 31) Cyclohexane               | 7.795     | 56    | 1026     | 1.501    | ug/l #     | 22       |
| 36) 1,1-Dichloropropene       | 7.789     | 75    | 3259     | 4.869    | ug/l #     | 51       |
| 37) Ethyl Acetate             | 6.984     | 43    | 3038     | 10.589   | ug/l #     | 69       |
| 38) Carbon Tetrachloride      | 7.795     | 117   | 4077     | 6.155    | ug/l #     | 12       |
| 51) 4-Methyl-2-Pentanone      | 10.179    | 43    | 356      | 1.199    | ug/l #     | 1        |
| 69) o-Xylene                  | 12.032    | 106   | 1244     | 1.536    | ug/l       | 86       |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75    | 10288    | 39.977   | ug/l #     | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.818    | 105   | 5230     | 3.644    | ug/l       | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75    | 10288    | 93.883   | ug/l #     | 12       |
| 84) 1,2,4-Trimethylbenzene    | 12.977    | 105   | 7197     | 5.085    | ug/l       | 80       |
| 90) Hexachloroethane          | 14.032    | 117   | 563      | 1.756    | ug/l #     | 17       |
| 95) Naphthalene               | 15.245    | 128   | 66       | 3.676    | ug/l #     | 69       |
| -----                         |           |       |          |          |            |          |

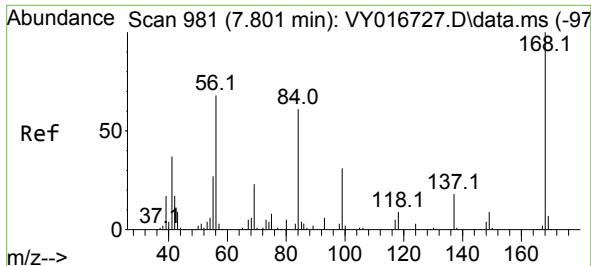
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 21 01:49:45 2023  
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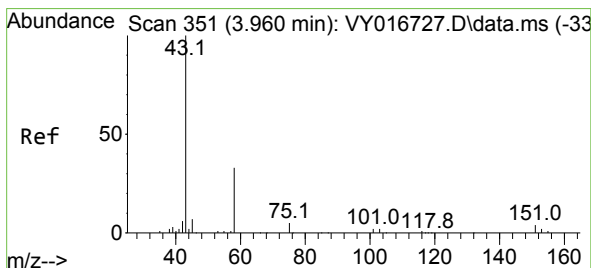
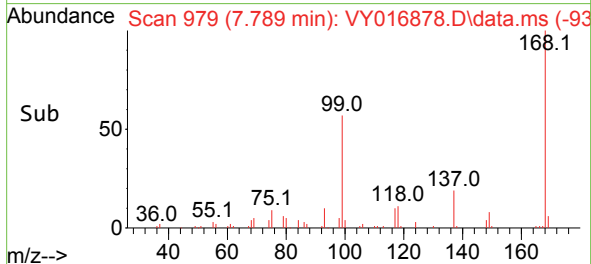
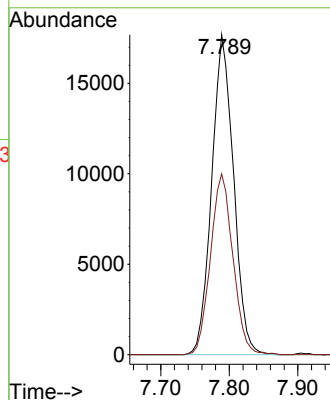
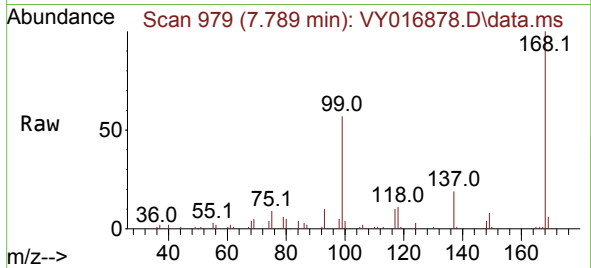




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

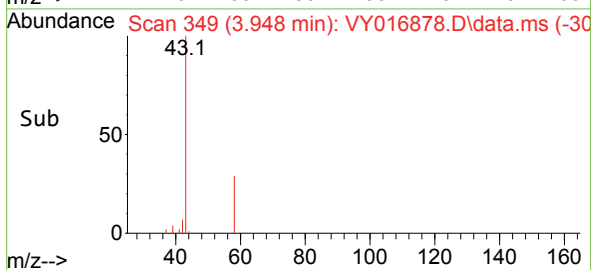
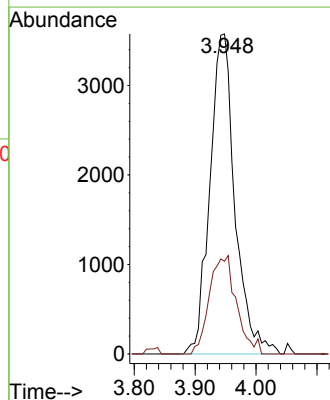
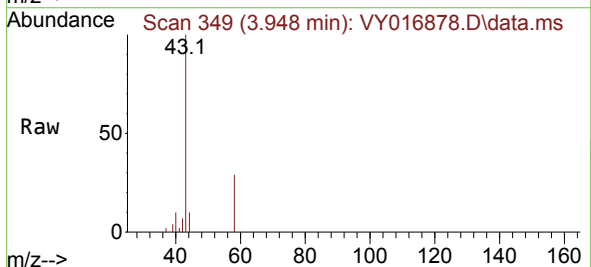
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-D-GRAB

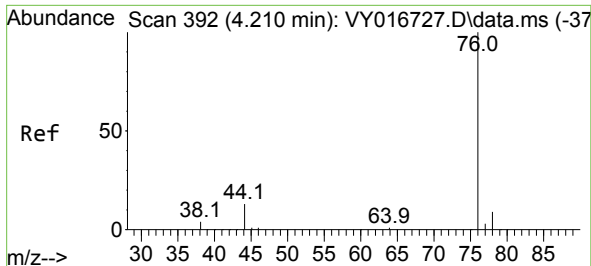
Tgt Ion:168 Resp: 39076  
Ion Ratio Lower Upper  
168 100  
99 56.5 44.2 66.4



#16  
Acetone  
Concen: 106.094 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. -0.012 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

Tgt Ion: 43 Resp: 10234  
Ion Ratio Lower Upper  
43 100  
58 29.0 26.6 39.8

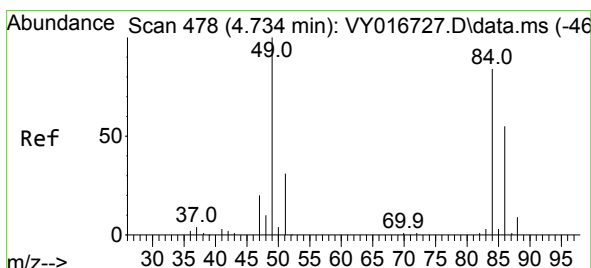
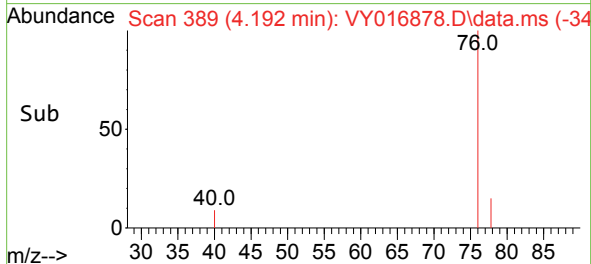
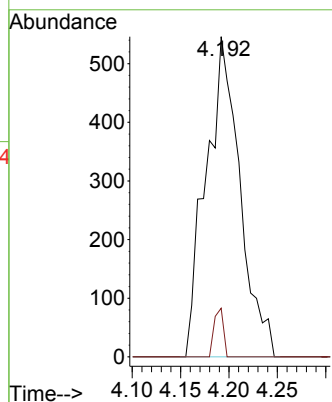
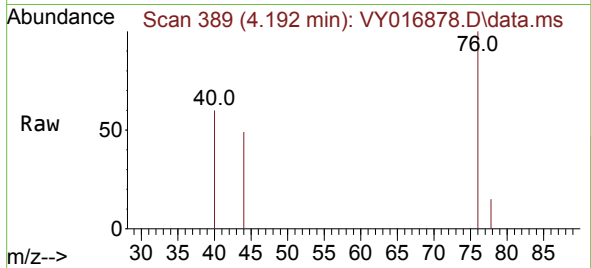




#17  
Carbon Disulfide  
Concen: 1.322 ug/l  
RT: 4.192 min Scan# 31  
Delta R.T. -0.018 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

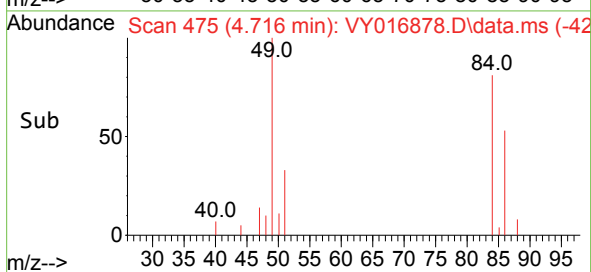
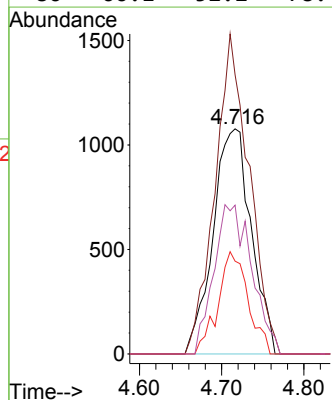
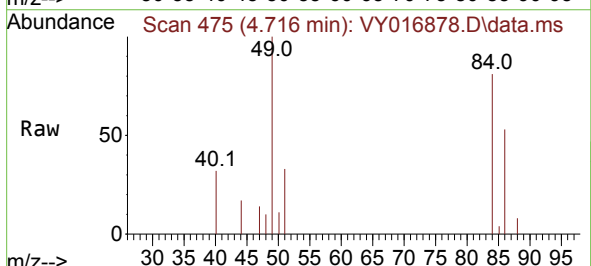
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-D-GRAB

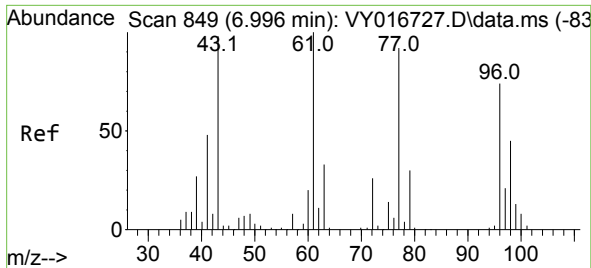
Tgt Ion: 76 Resp: 1327  
Ion Ratio Lower Upper  
76 100  
78 15.2 7.4 11.0#



#20  
Methylene Chloride  
Concen: 4.287 ug/l  
RT: 4.716 min Scan# 475  
Delta R.T. -0.018 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

Tgt Ion: 84 Resp: 3483  
Ion Ratio Lower Upper  
84 100  
49 124.0 95.2 142.8  
51 41.2 29.9 44.9  
86 66.1 52.2 78.4

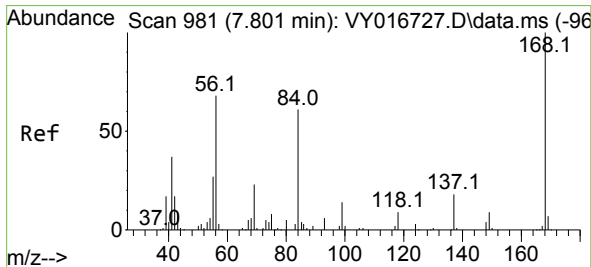
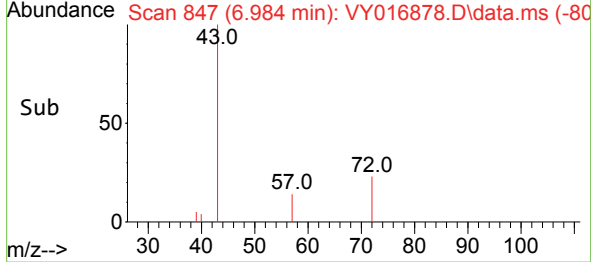
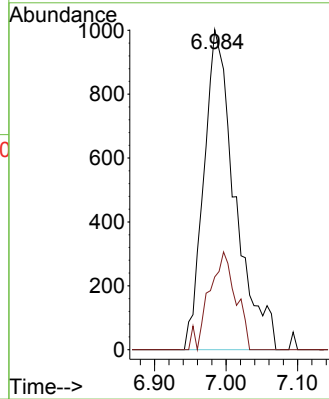
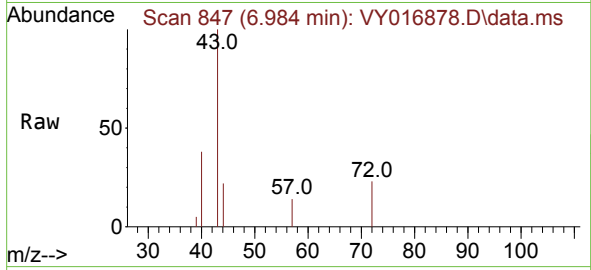




#25  
2-Butanone  
Concen: 22.875 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. -0.012 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

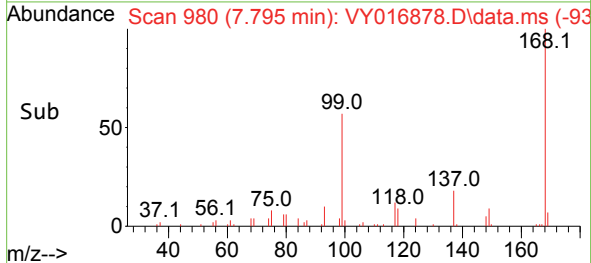
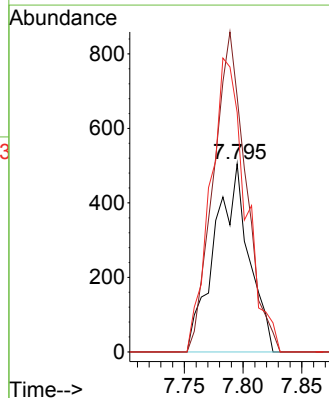
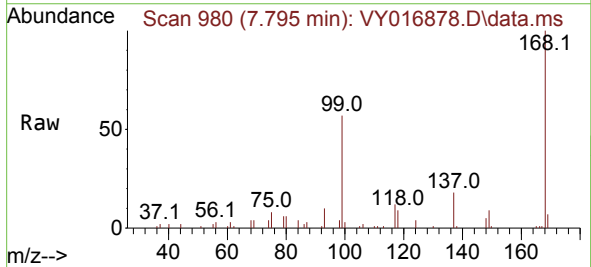
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-D-GRAB

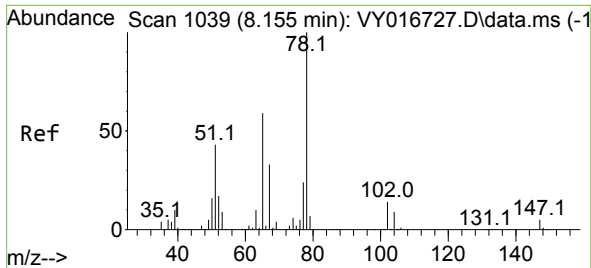
Tgt Ion: 43 Resp: 3038  
Ion Ratio Lower Upper  
43 100  
72 22.8 21.4 32.2



#31  
Cyclohexane  
Concen: 1.501 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.006 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

Tgt Ion: 56 Resp: 1026  
Ion Ratio Lower Upper  
56 100  
69 135.6 27.0 40.6#  
84 127.3 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 52.500 ug/l

RT: 8.136 min Scan# 110

Delta R.T. -0.018 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

Instrument :

MSVOA\_Y

ClientSampleId :

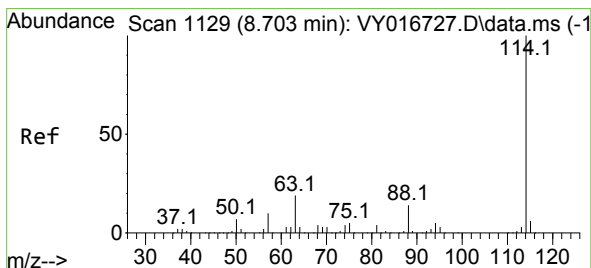
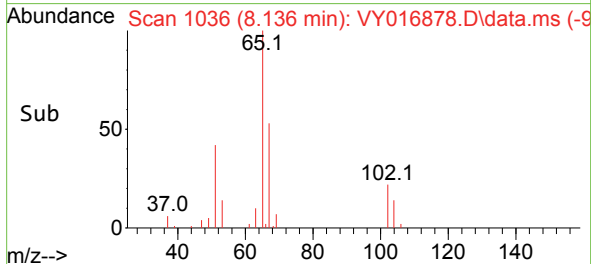
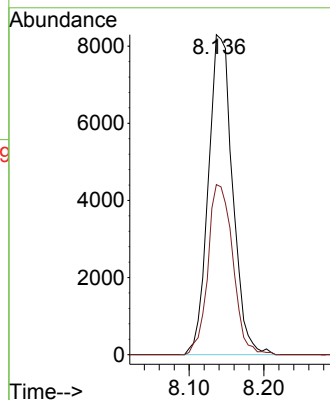
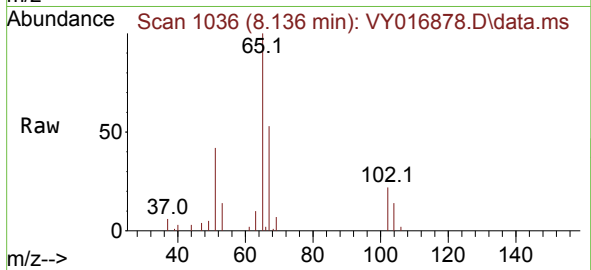
WC-D-GRAB

Tgt Ion: 65 Resp: 18728

Ion Ratio Lower Upper

65 100

67 54.6 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.012 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

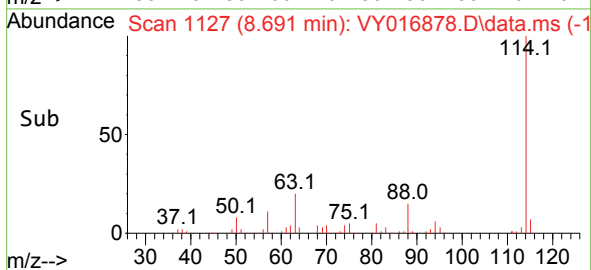
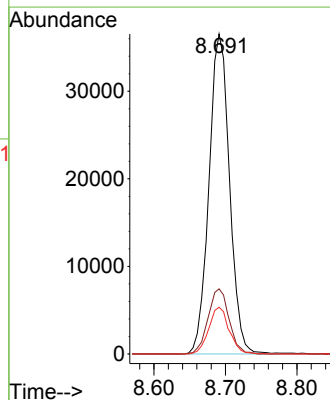
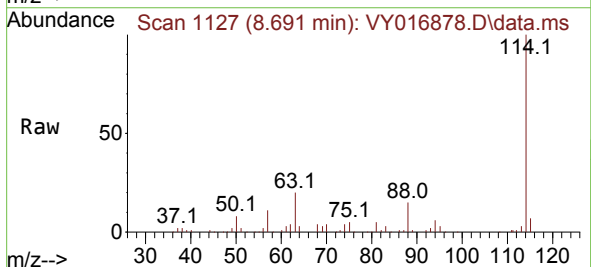
Tgt Ion: 114 Resp: 72890

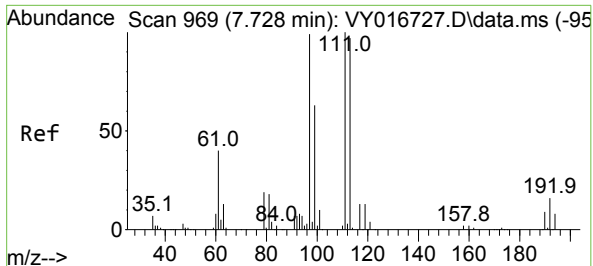
Ion Ratio Lower Upper

114 100

63 20.3 0.0 37.4

88 14.6 0.0 29.0

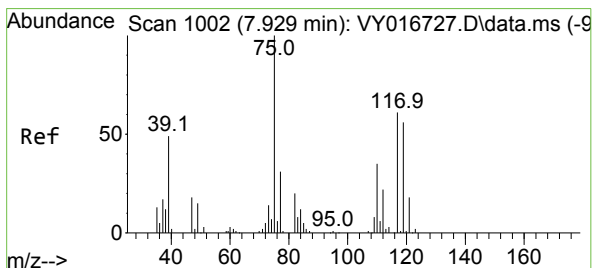
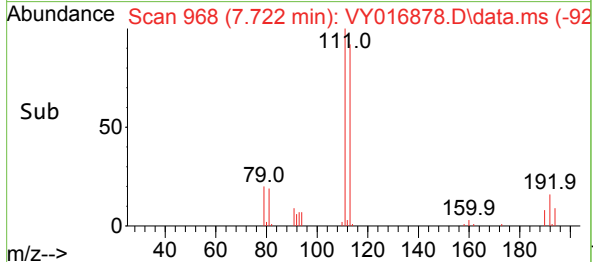
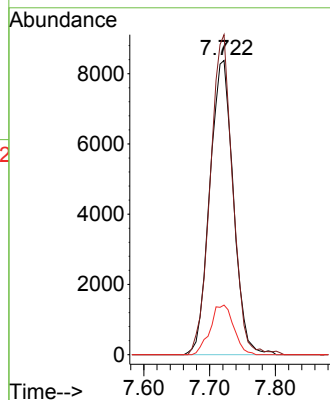
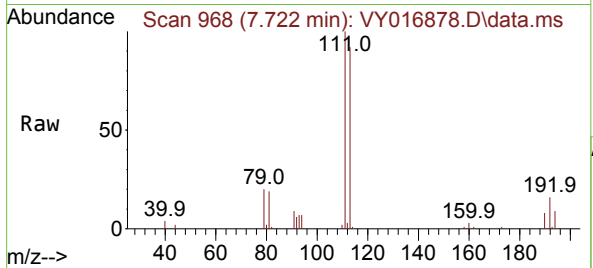




#35  
Dibromofluoromethane  
Concen: 50.068 ug/l  
RT: 7.722 min Scan# 910  
Delta R.T. -0.006 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

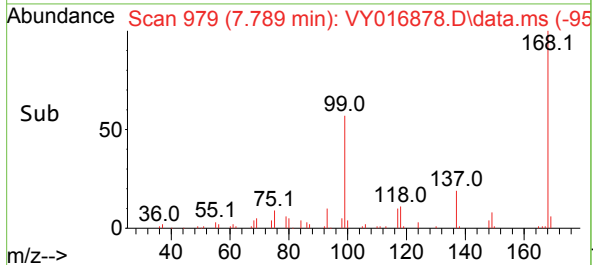
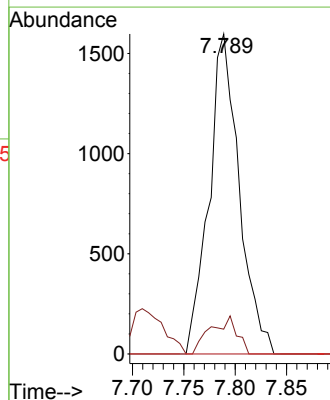
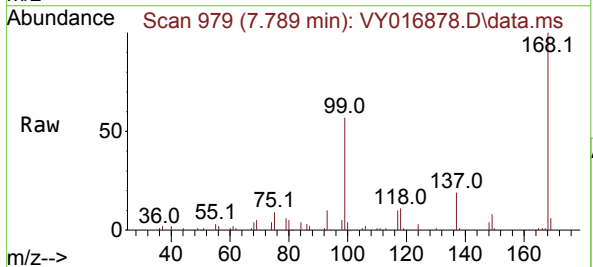
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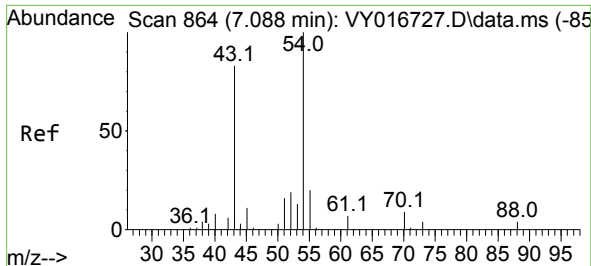
Tgt Ion:113 Resp: 20905  
Ion Ratio Lower Upper  
113 100  
111 103.5 83.8 125.6  
192 16.8 14.5 21.7



#36  
1,1-Dichloropropene  
Concen: 4.869 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.140 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

Tgt Ion: 75 Resp: 3259  
Ion Ratio Lower Upper  
75 100  
110 10.4 17.4 52.3#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 10.589 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.104 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

Instrument :

MSVOA\_Y

ClientSampleId :

WC-D-GRAB

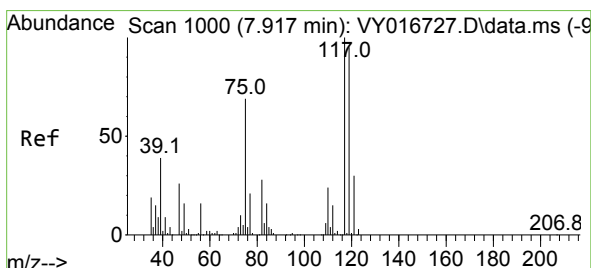
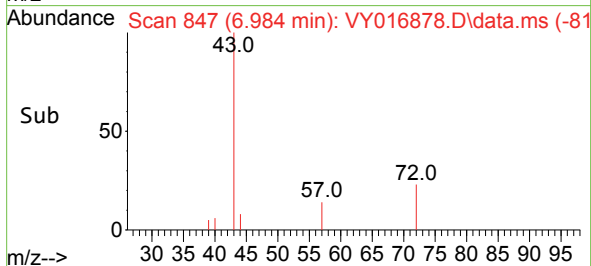
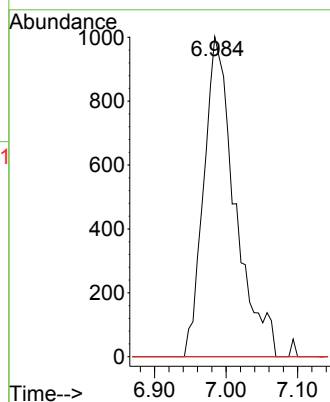
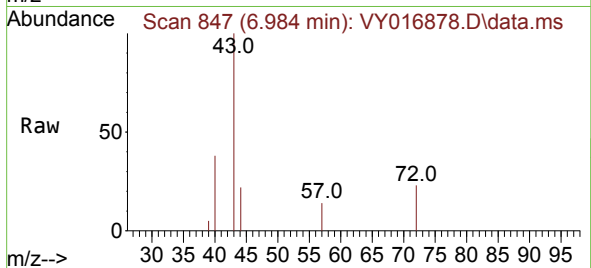
Tgt Ion: 43 Resp: 3038

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.6#

70 0.0 8.1 12.1#



#38

Carbon Tetrachloride

Concen: 6.155 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.122 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

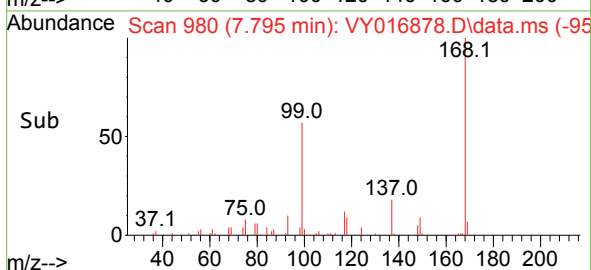
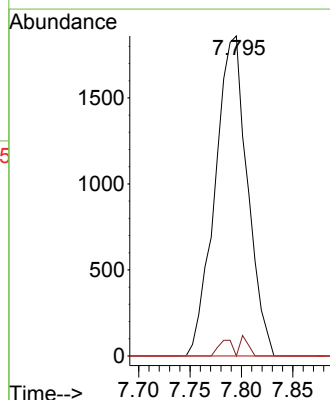
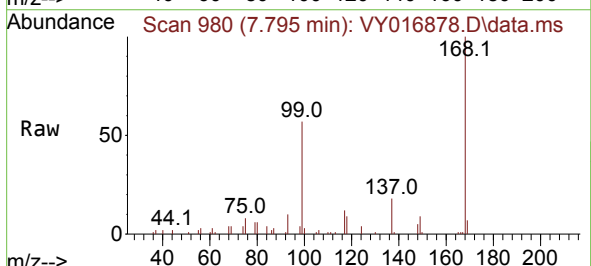
Tgt Ion: 117 Resp: 4077

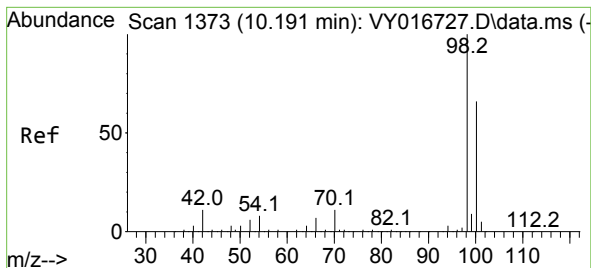
Ion Ratio Lower Upper

117 100

119 0.0 76.0 114.0#

121 0.0 24.2 36.2#





#50

Toluene-d8

Concen: 47.500 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.012 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

Instrument :

MSVOA\_Y

ClientSampleId :

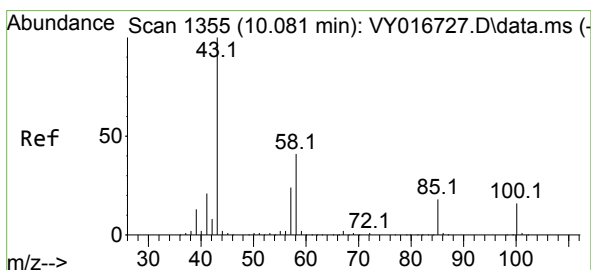
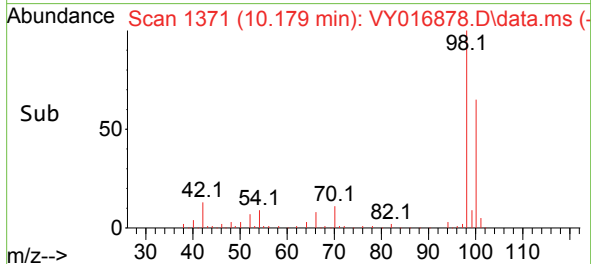
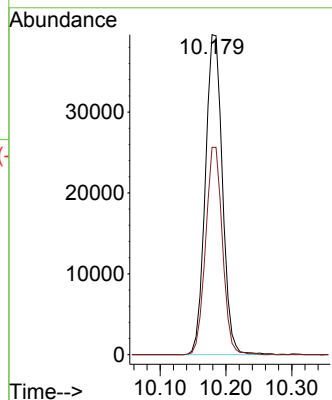
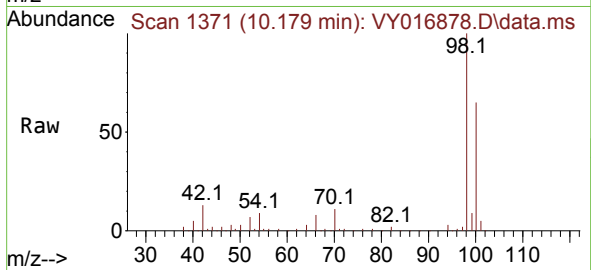
WC-D-GRAB

Tgt Ion: 98 Resp: 71495

Ion Ratio Lower Upper

98 100

100 63.8 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 1.199 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.098 min

Lab File: VY016878.D

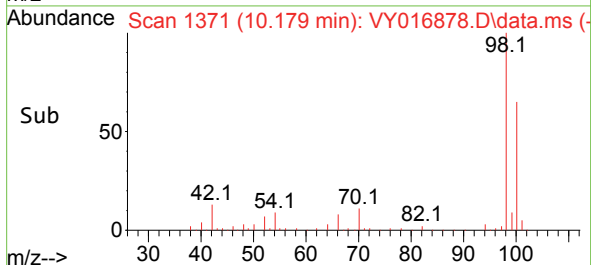
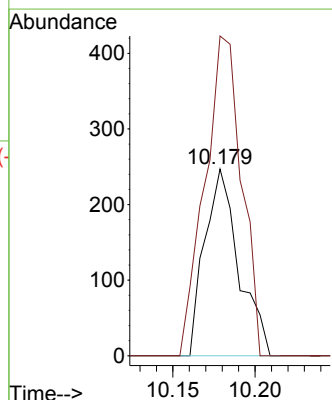
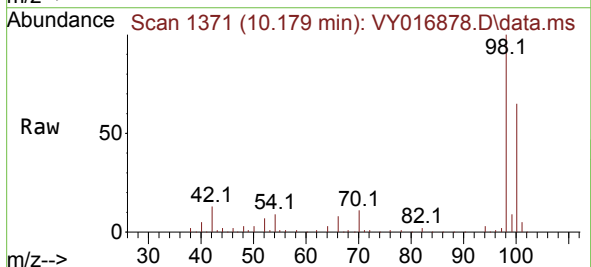
Acq: 27 Dec 2023 15:23

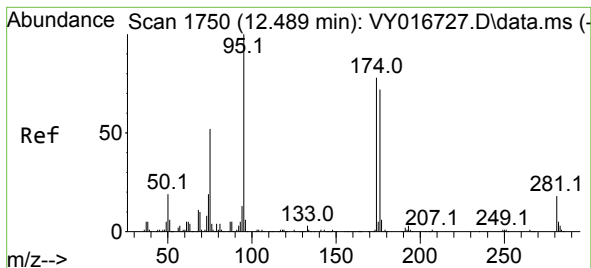
Tgt Ion: 43 Resp: 356

Ion Ratio Lower Upper

43 100

58 184.3 32.2 48.2#

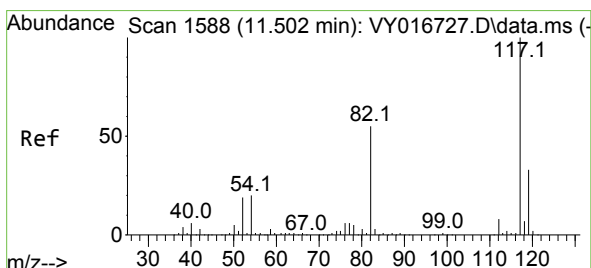
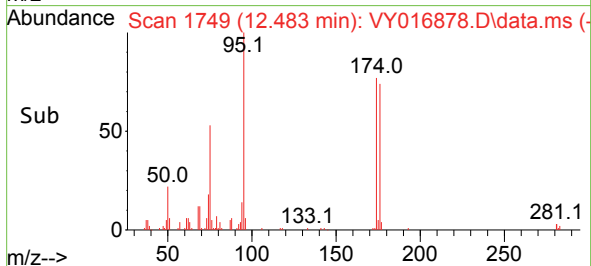
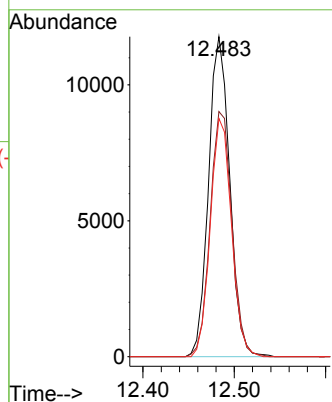
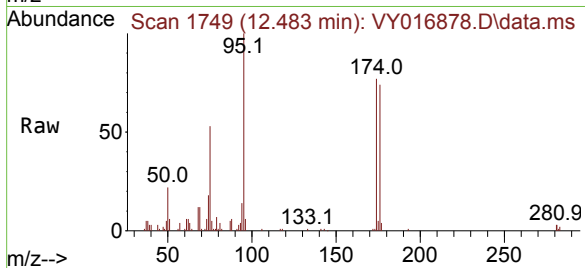




#62  
4-Bromofluorobenzene  
Concen: 38.719 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.006 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

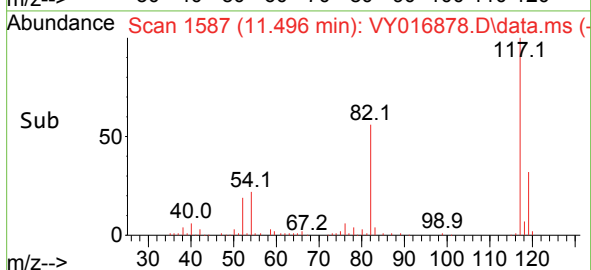
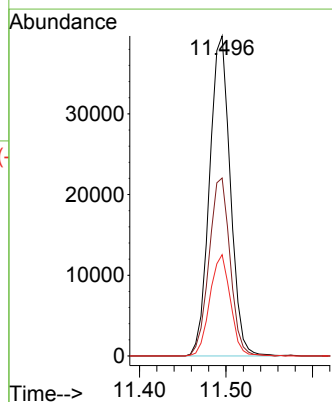
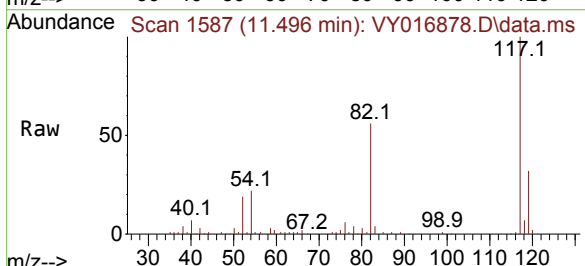
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-D-GRAB

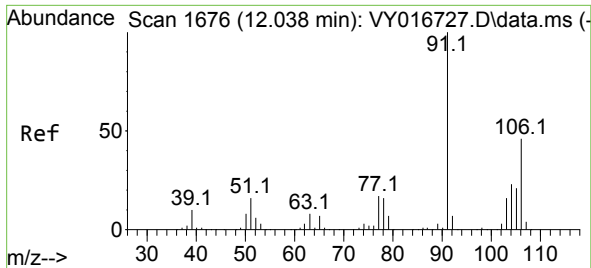
Tgt Ion: 95 Resp: 18907  
Ion Ratio Lower Upper  
95 100  
174 79.1 0.0 160.0  
176 74.4 0.0 151.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 1587  
Delta R.T. -0.006 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

Tgt Ion: 117 Resp: 66103  
Ion Ratio Lower Upper  
117 100  
82 55.6 43.8 65.8  
119 31.6 26.5 39.7

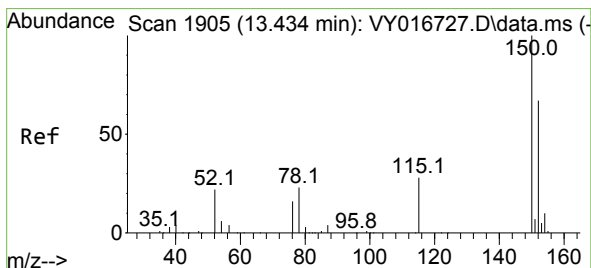
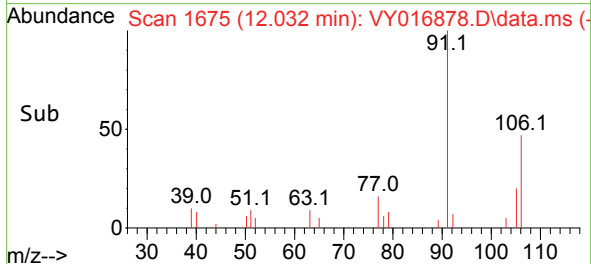
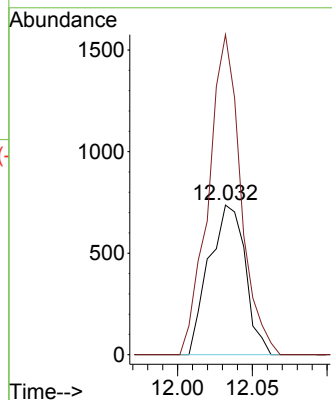
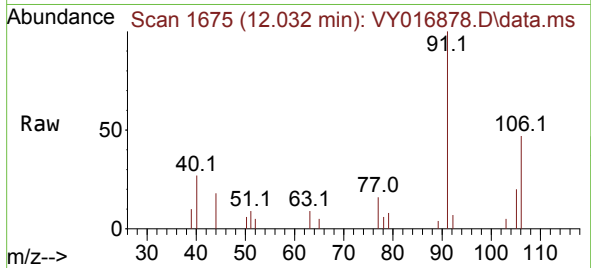




#69  
o-Xylene  
Concen: 1.536 ug/l  
RT: 12.032 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

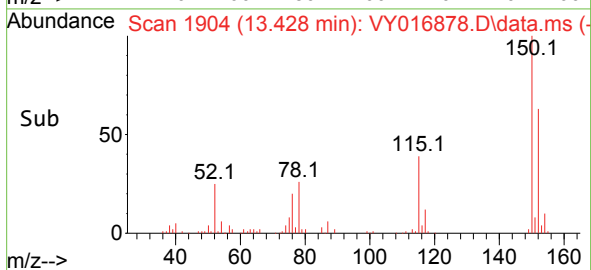
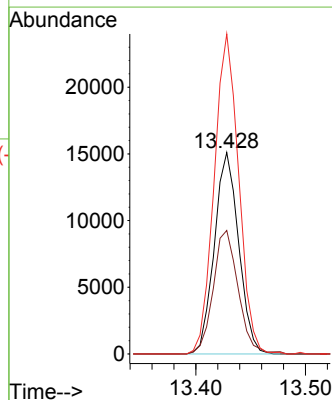
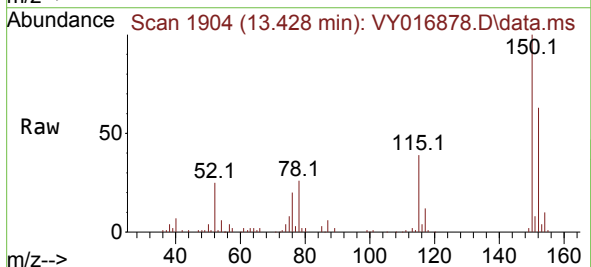
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-D-GRAB

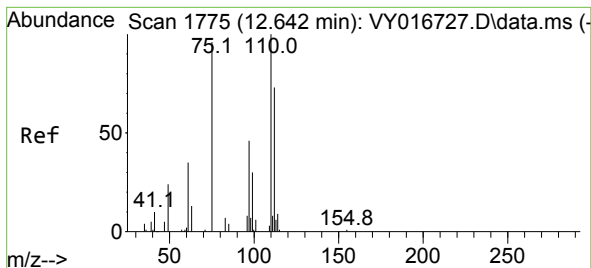
Tgt Ion:106 Resp: 1244  
Ion Ratio Lower Upper  
106 100  
91 191.1 106.5 319.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.006 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

Tgt Ion:152 Resp: 23280  
Ion Ratio Lower Upper  
152 100  
115 62.9 30.0 90.0  
150 160.1 0.0 344.6





#76

1,2,3-Trichloropropane

Concen: 39.977 ug/l

RT: 12.483 min Scan# 11

Delta R.T. -0.158 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

Instrument :

MSVOA\_Y

ClientSampleId :

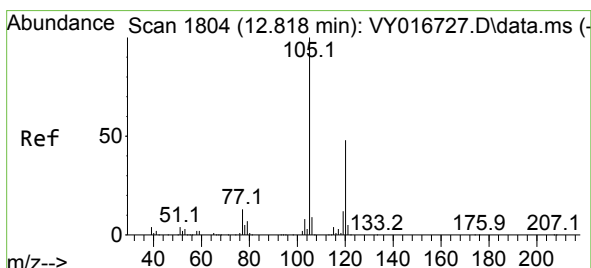
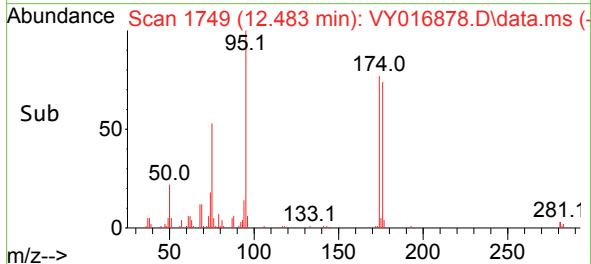
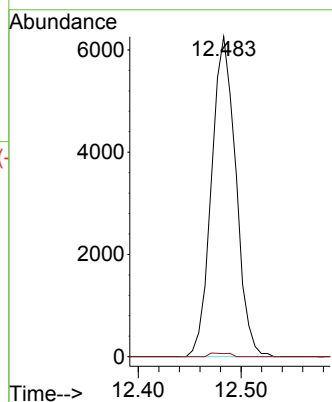
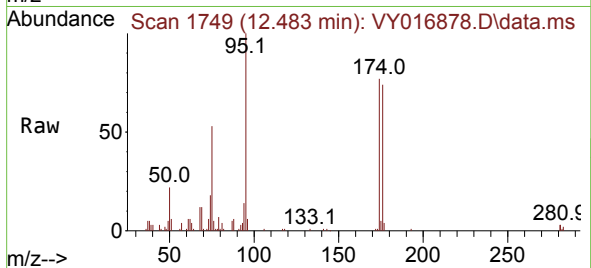
WC-D-GRAB

Tgt Ion: 75 Resp: 10288

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 3.644 ug/l

RT: 12.818 min Scan# 1804

Delta R.T. 0.000 min

Lab File: VY016878.D

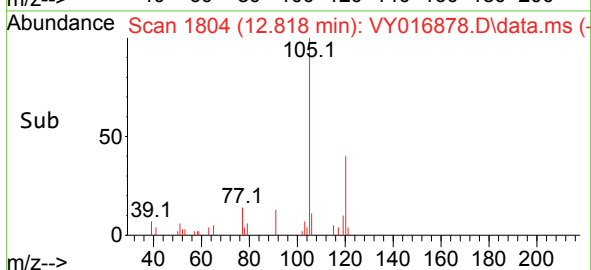
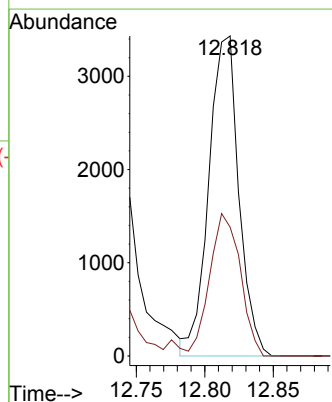
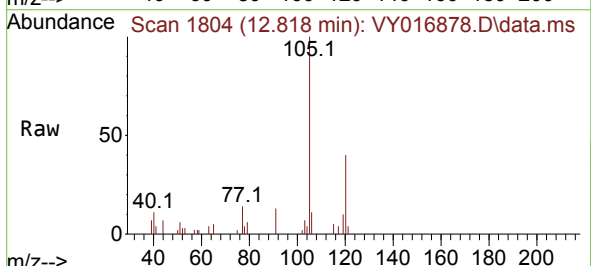
Acq: 27 Dec 2023 15:23

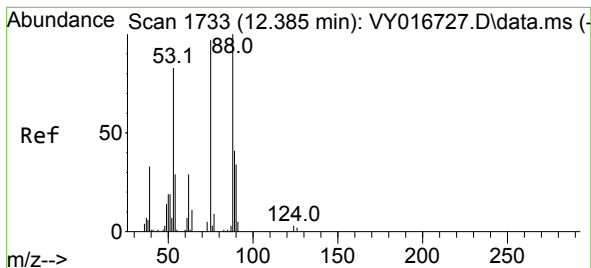
Tgt Ion: 105 Resp: 5230

Ion Ratio Lower Upper

105 100

120 45.3 24.3 72.8

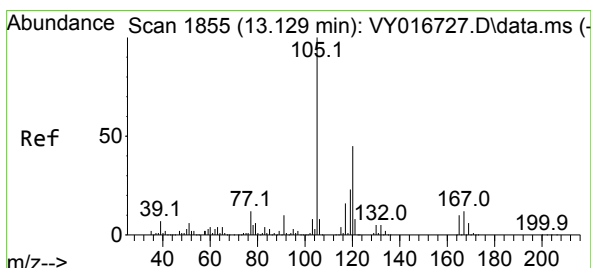
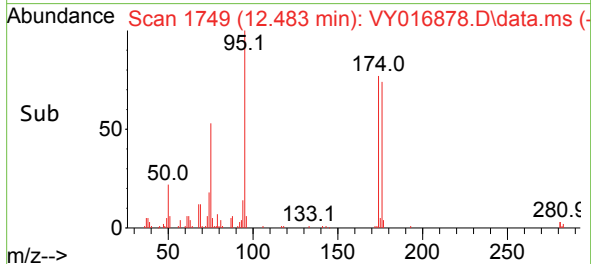
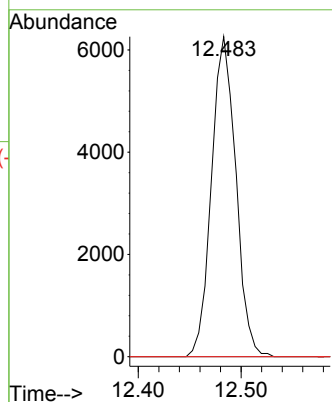
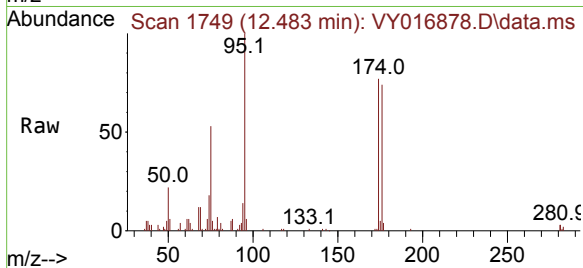




#81  
trans-1,4-Dichloro-2-butene  
Concen: 93.883 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.098 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

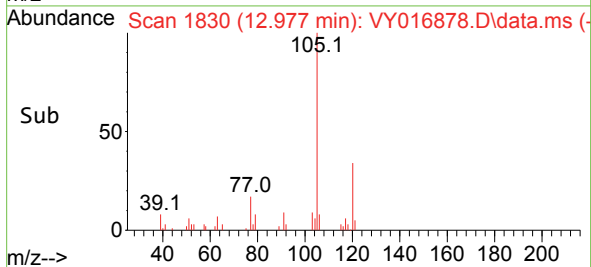
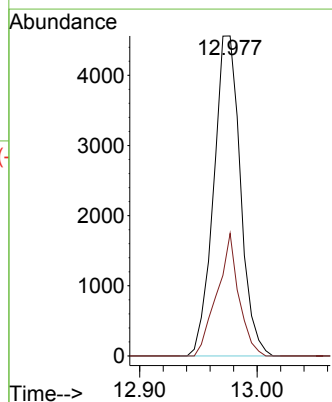
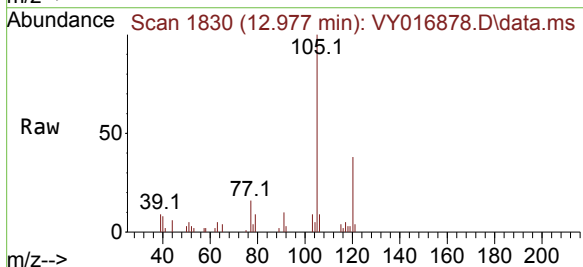
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-D-GRAB

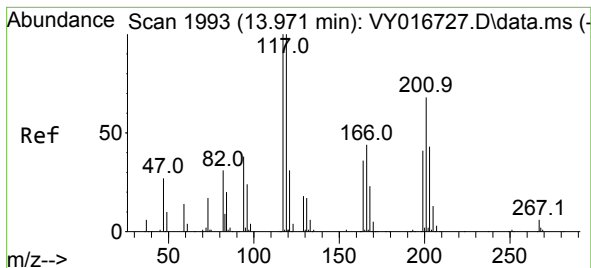
Tgt Ion: 75 Resp: 10288  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.0 111.0#  
89 0.0 36.5 54.7#



#84  
1,2,4-Trimethylbenzene  
Concen: 5.085 ug/l  
RT: 12.977 min Scan# 1830  
Delta R.T. -0.152 min  
Lab File: VY016878.D  
Acq: 27 Dec 2023 15:23

Tgt Ion: 105 Resp: 7197  
Ion Ratio Lower Upper  
105 100  
120 31.2 22.1 66.3





#90

Hexachloroethane

Concen: 1.756 ug/l

RT: 14.032 min Scan# 2003

Delta R.T. 0.061 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

Instrument :

MSVOA\_Y

ClientSampleId :

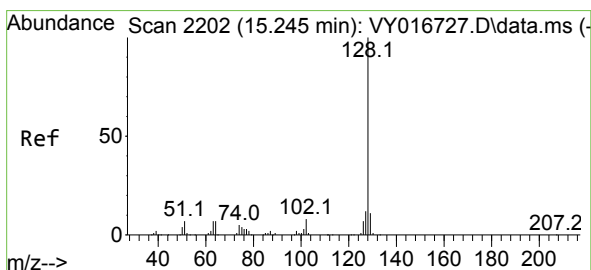
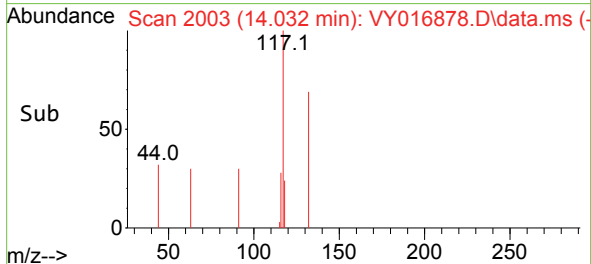
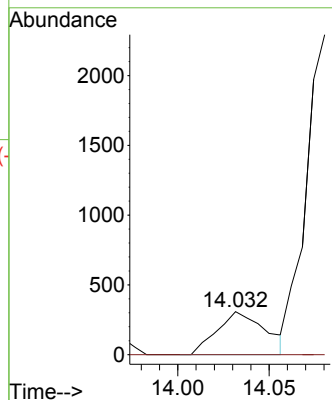
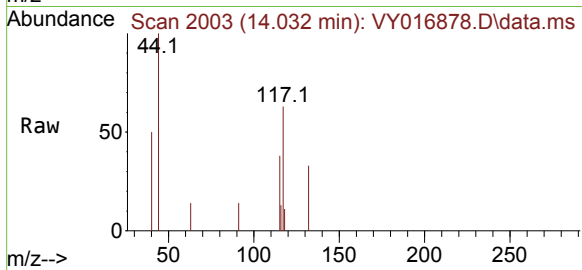
WC-D-GRAB

Tgt Ion:117 Resp: 563

Ion Ratio Lower Upper

117 100

201 0.0 33.4 100.1#



#95

Naphthalene

Concen: 3.676 ug/l

RT: 15.245 min Scan# 2202

Delta R.T. -0.000 min

Lab File: VY016878.D

Acq: 27 Dec 2023 15:23

Tgt Ion:128 Resp: 66

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.6 12.8#

