

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
 Data File : VY016876.D  
 Acq On : 27 Dec 2023 14:36  
 Operator : SY/MD  
 Sample : 05994-06RE  
 Misc : 6.02g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-B-GRABRE

Quant Time: Dec 28 03:45:22 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

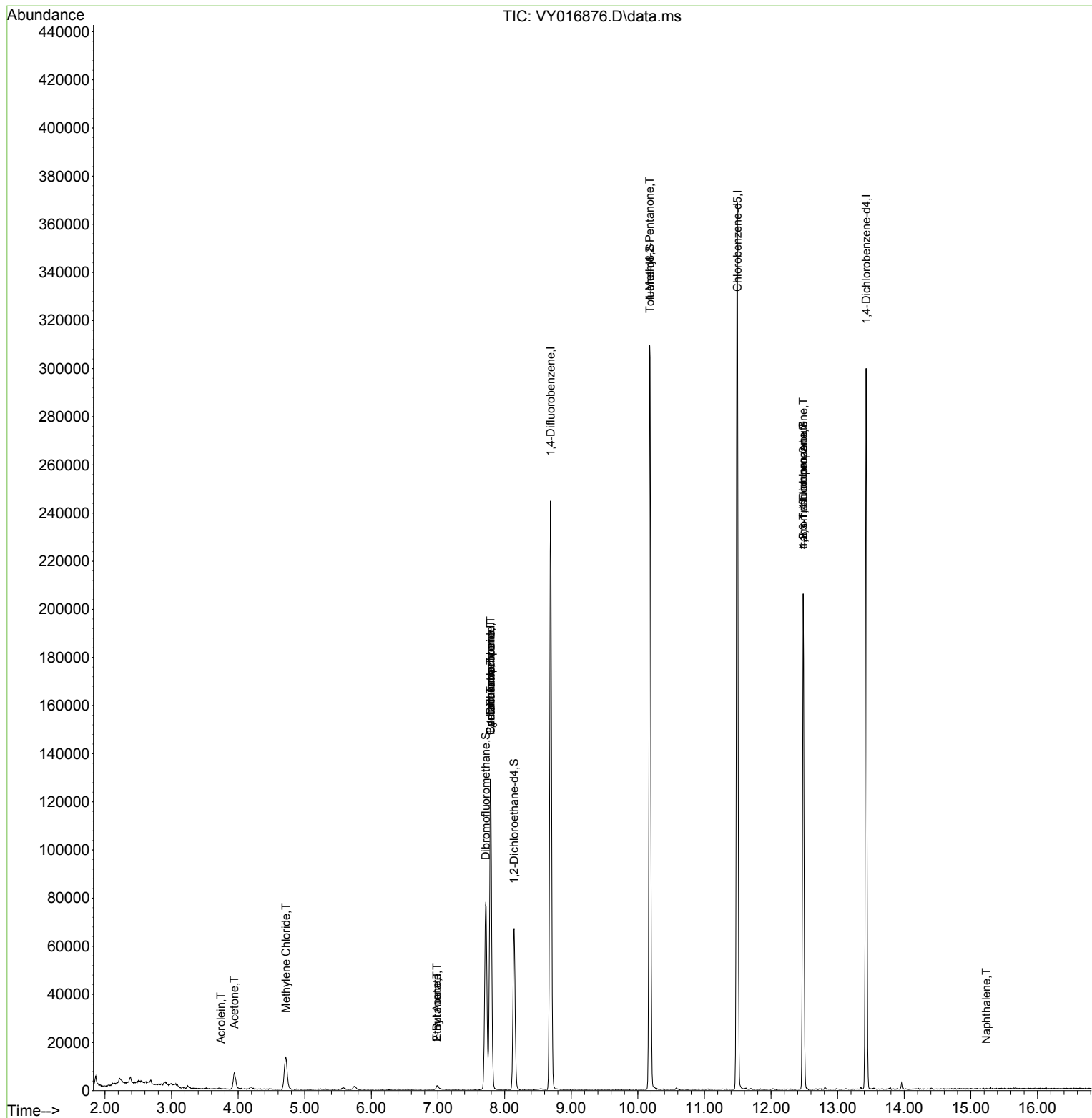
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 94223               | 50.000 | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 204555              | 50.000 | ug/l   | -0.01    |
| 63) Chlorobenzene-d5          | 11.495         | 117  | 200820              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 72619               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.142          | 65   | 51404               | 59.761 | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 119.520% |        |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 56024               | 47.813 | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 95.620%  |        |        |          |
| 50) Toluene-d8                | 10.185         | 98   | 204393              | 48.388 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 96.780%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 62459               | 45.577 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 91.160%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 13) Acrolein                  | 3.741          | 56   | 127                 | 2.334  | ug/l # | 15       |
| 16) Acetone                   | 3.942          | 43   | 12146               | 52.219 | ug/l   | 94       |
| 20) Methylene Chloride        | 4.716          | 84   | 10022               | 5.682  | ug/l   | 94       |
| 25) 2-Butanone                | 6.984          | 43   | 2951                | 9.215  | ug/l   | 98       |
| 31) Cyclohexane               | 7.789          | 56   | 2235                | 1.356  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 8291                | 4.414  | ug/l # | 49       |
| 37) Ethyl Acetate             | 6.984          | 43   | 2951                | 3.665  | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 9937                | 5.346  | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.179         | 43   | 1036                | 1.243  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 33296               | 41.477 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 33296               | 97.405 | ug/l # | 12       |
| 95) Naphthalene               | 15.233         | 128  | 28                  | 3.605  | ug/l # | 69       |
| -----                         |                |      |                     |        |        |          |

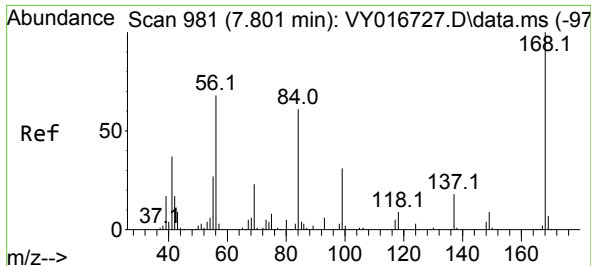
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
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Sample : 05994-06RE  
Misc : 6.02g/5.0mL/MSVOA\_Y/SOIL/B  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-B-GRABRE

Quant Time: Dec 28 03:45:22 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

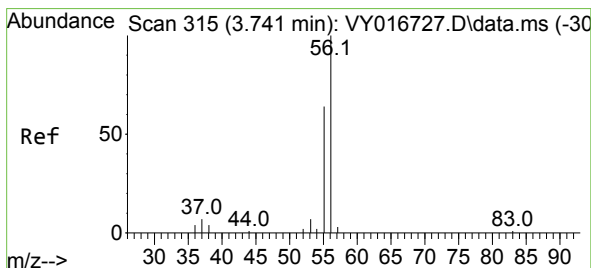
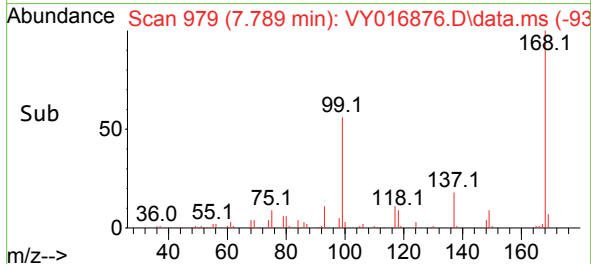
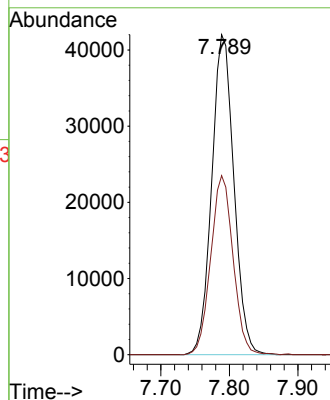
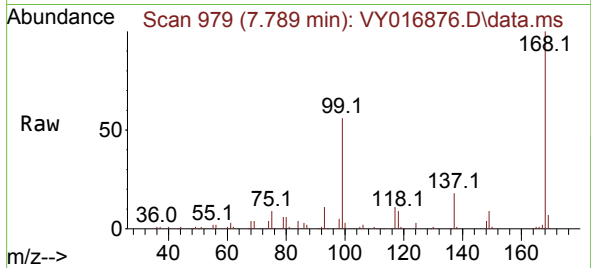




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

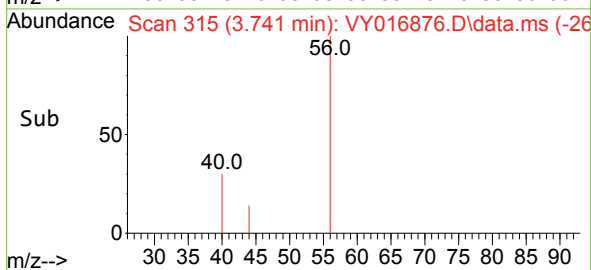
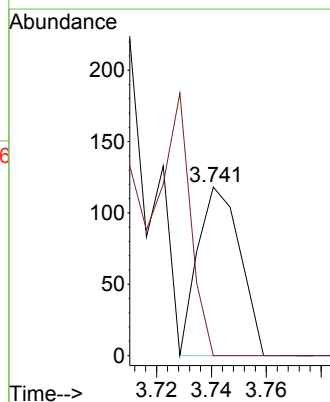
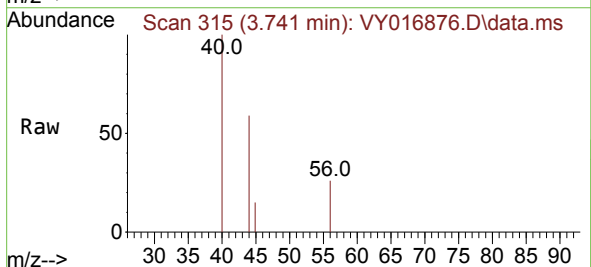
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-B-GRABRE

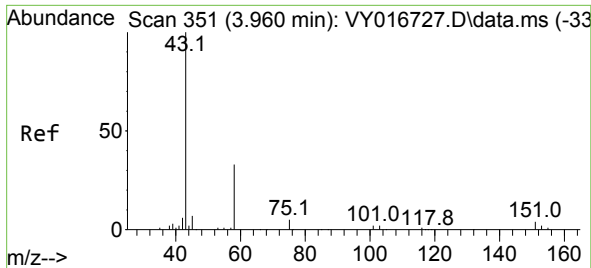
Tgt Ion:168 Resp: 94223  
Ion Ratio Lower Upper  
168 100  
99 55.9 44.2 66.4



#13  
Acrolein  
Concen: 2.334 ug/l  
RT: 3.741 min Scan# 315  
Delta R.T. -0.000 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Tgt Ion: 56 Resp: 127  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.4 83.0#

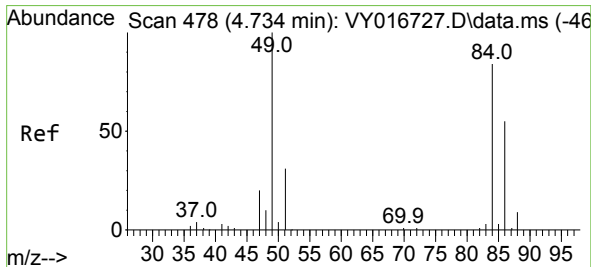
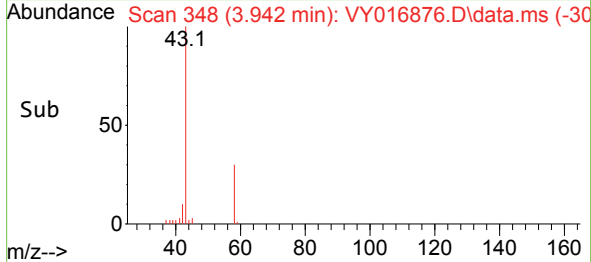
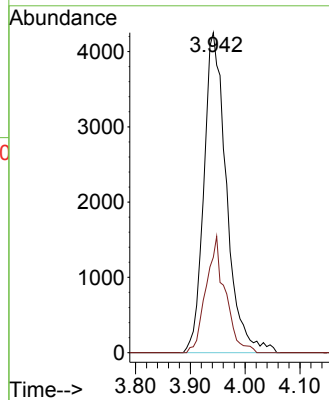
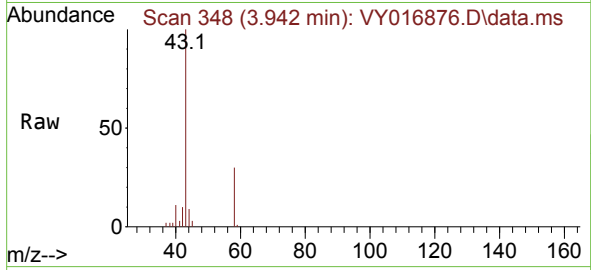




#16  
Acetone  
Concen: 52.219 ug/l  
RT: 3.942 min Scan# 341  
Delta R.T. -0.018 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

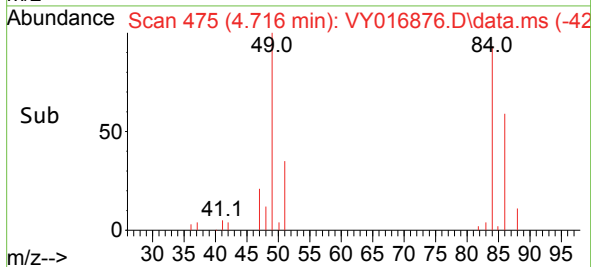
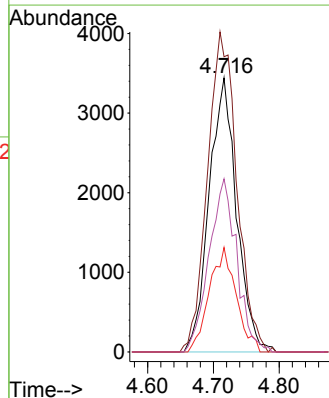
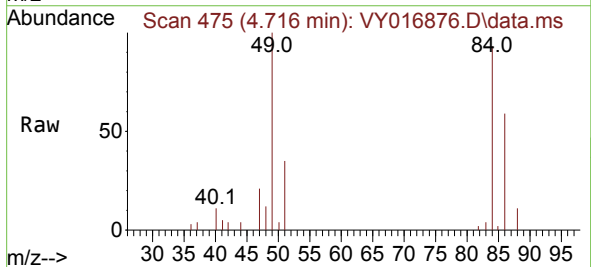
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-B-GRABRE

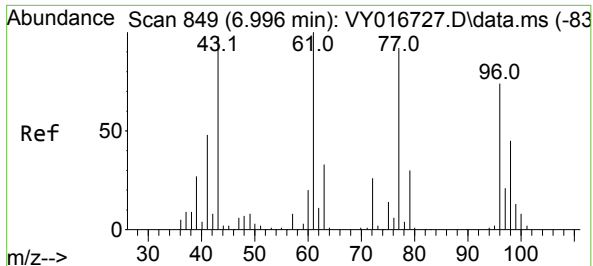
Tgt Ion: 43 Resp: 12146  
Ion Ratio Lower Upper  
43 100  
58 29.8 26.6 39.8



#20  
Methylene Chloride  
Concen: 5.682 ug/l  
RT: 4.716 min Scan# 475  
Delta R.T. -0.018 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Tgt Ion: 84 Resp: 10022  
Ion Ratio Lower Upper  
84 100  
49 107.7 95.2 142.8  
51 38.1 29.9 44.9  
86 63.2 52.2 78.4





#25

2-Butanone

Concen: 9.215 ug/l

RT: 6.984 min Scan# 849

Delta R.T. -0.012 min

Lab File: VY016876.D

Acq: 27 Dec 2023 14:36

Instrument :

MSVOA\_Y

ClientSampleId :

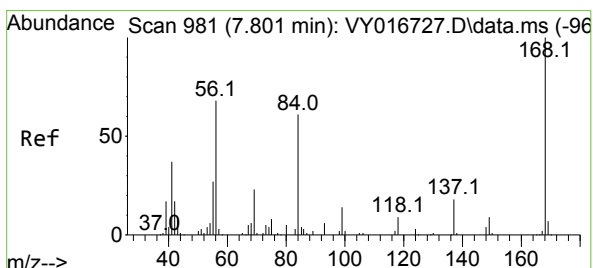
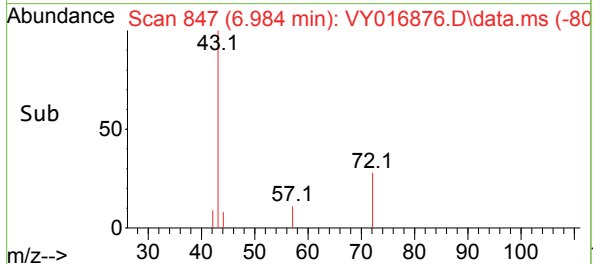
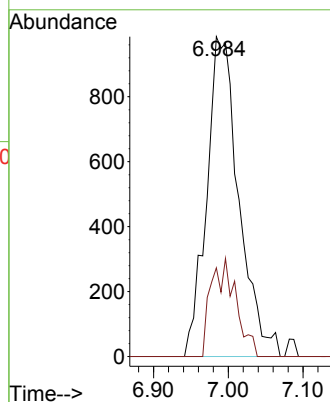
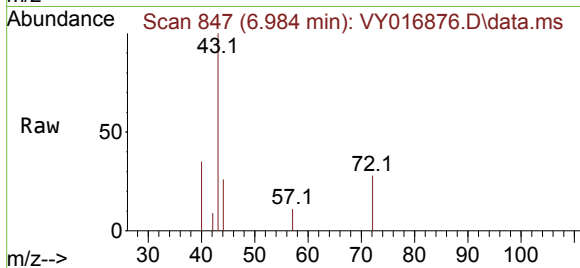
WC-B-GRABRE

Tgt Ion: 43 Resp: 2951

Ion Ratio Lower Upper

43 100

72 27.7 21.4 32.2



#31

Cyclohexane

Concen: 1.356 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.012 min

Lab File: VY016876.D

Acq: 27 Dec 2023 14:36

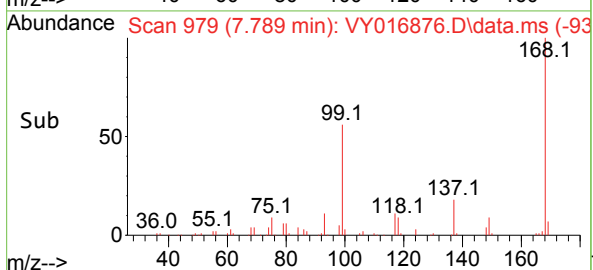
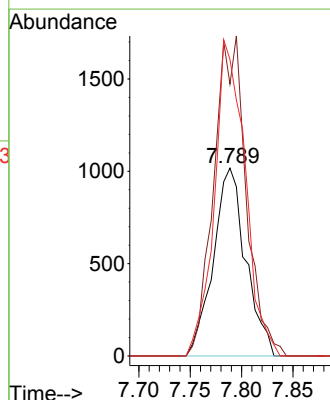
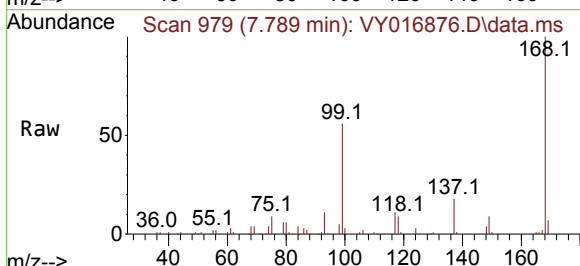
Tgt Ion: 56 Resp: 2235

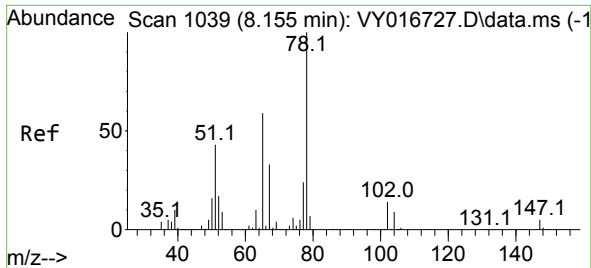
Ion Ratio Lower Upper

56 100

69 144.7 27.0 40.6#

84 157.9 71.8 107.6#

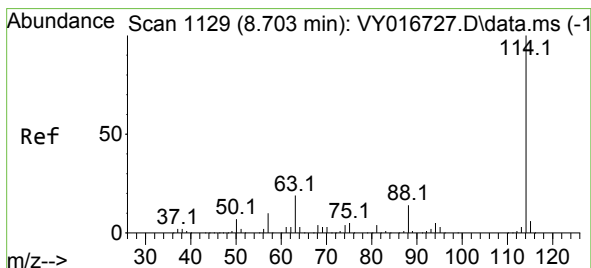
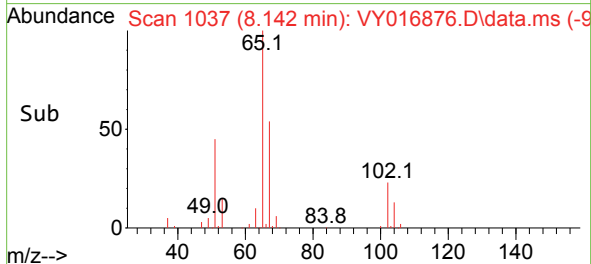
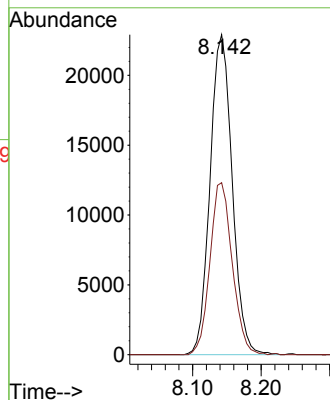
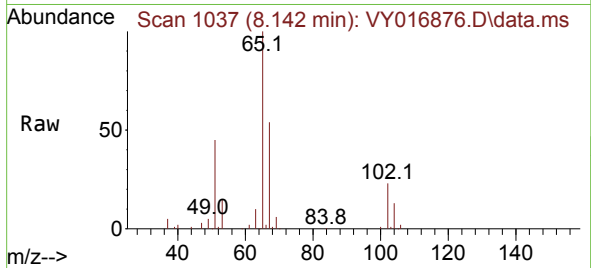




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.761 ug/l  
 RT: 8.142 min Scan# 1037  
 Delta R.T. -0.012 min  
 Lab File: VY016876.D  
 Acq: 27 Dec 2023 14:36

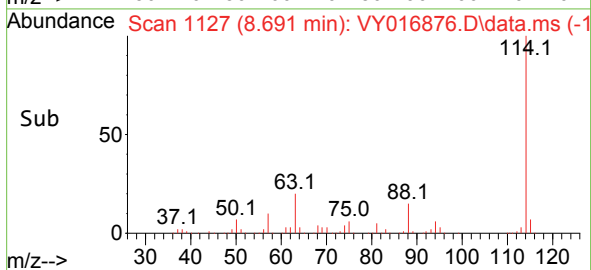
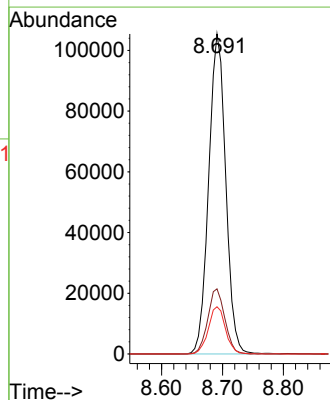
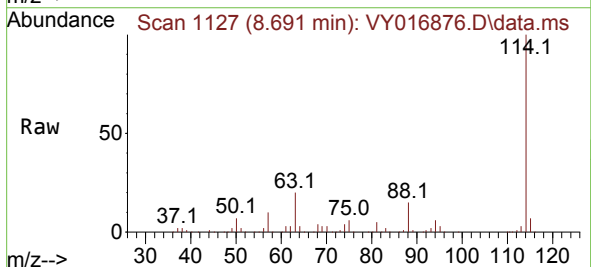
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-B-GRABRE

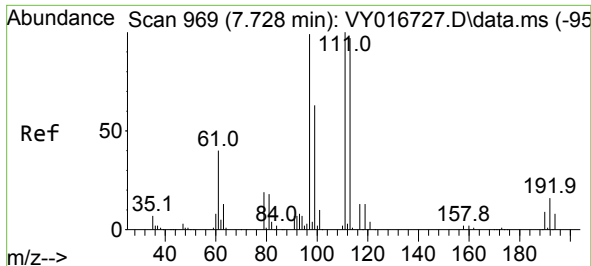
Tgt Ion: 65 Resp: 51404  
 Ion Ratio Lower Upper  
 65 100  
 67 54.2 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.691 min Scan# 1127  
 Delta R.T. -0.012 min  
 Lab File: VY016876.D  
 Acq: 27 Dec 2023 14:36

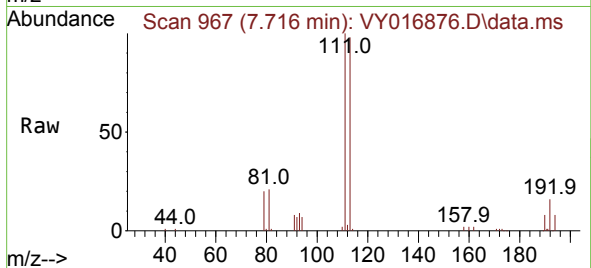
Tgt Ion: 114 Resp: 204555  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 37.4  
 88 14.7 0.0 29.0



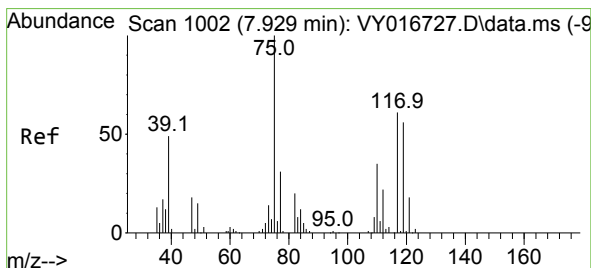
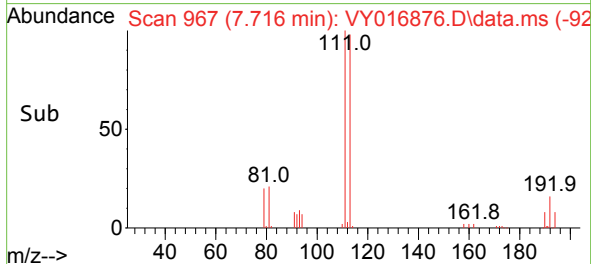
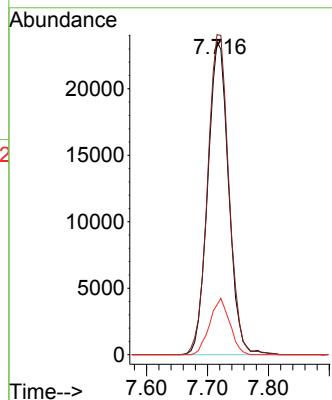


#35  
Dibromofluoromethane  
Concen: 47.813 ug/l  
RT: 7.716 min Scan# 910  
Delta R.T. -0.012 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-B-GRABRE

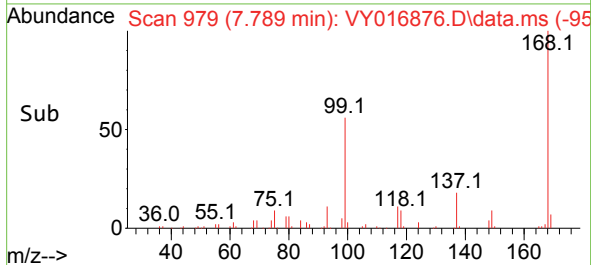
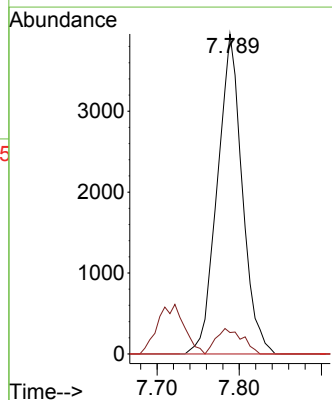
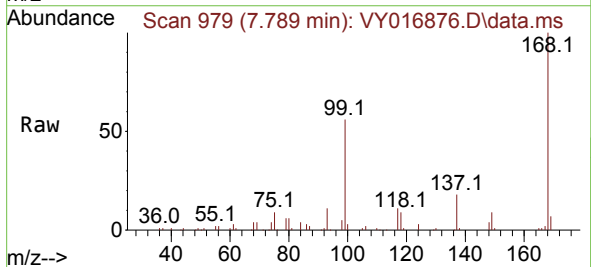


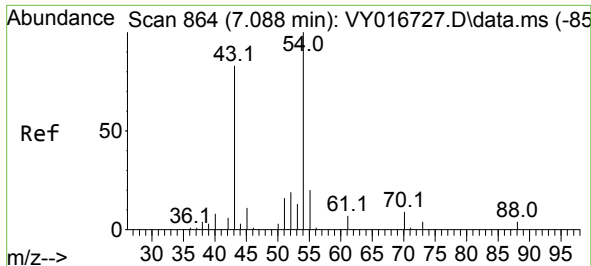
Tgt Ion:113 Resp: 56024  
Ion Ratio Lower Upper  
113 100  
111 104.1 83.8 125.6  
192 17.2 14.5 21.7



#36  
1,1-Dichloropropene  
Concen: 4.414 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.140 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Tgt Ion: 75 Resp: 8291  
Ion Ratio Lower Upper  
75 100  
110 8.4 17.4 52.3#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 3.665 ug/l

RT: 6.984 min Scan# 847

Delta R.T. -0.104 min

Lab File: VY016876.D

Acq: 27 Dec 2023 14:36

Instrument :

MSVOA\_Y

ClientSampleId :

WC-B-GRABRE

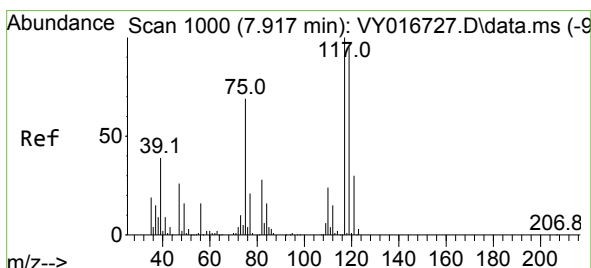
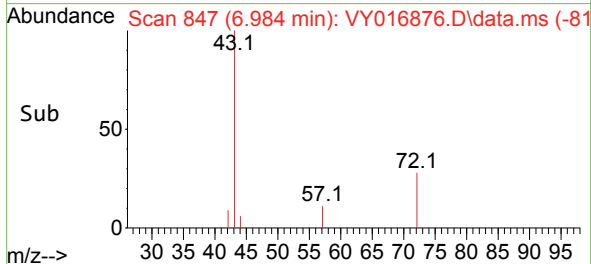
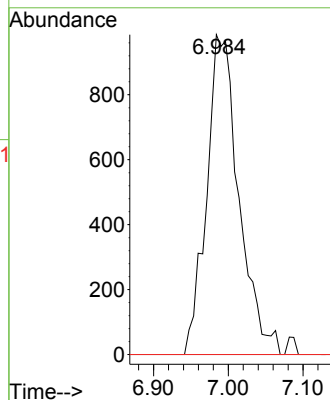
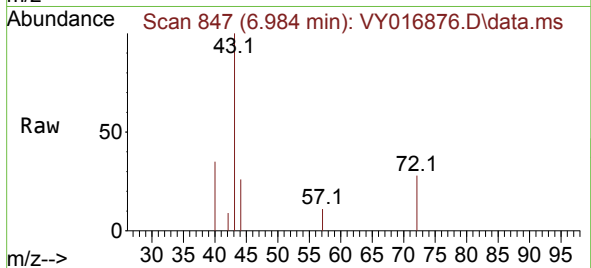
Tgt Ion: 43 Resp: 2951

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.6#

70 0.0 8.1 12.1#



#38

Carbon Tetrachloride

Concen: 5.346 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.128 min

Lab File: VY016876.D

Acq: 27 Dec 2023 14:36

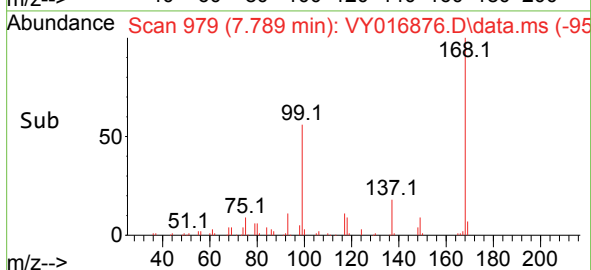
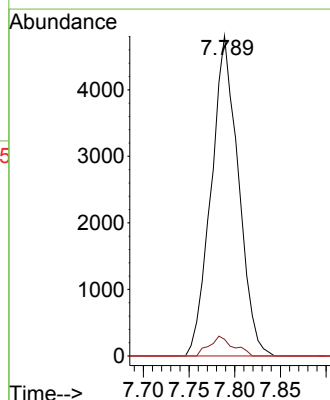
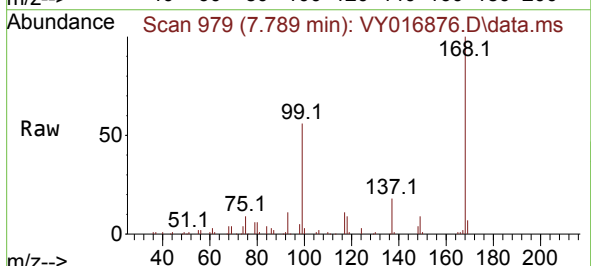
Tgt Ion: 117 Resp: 9937

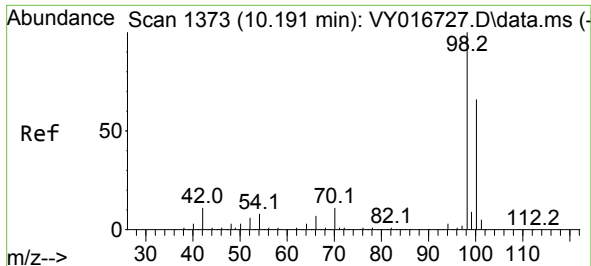
Ion Ratio Lower Upper

117 100

119 5.2 76.0 114.0#

121 0.0 24.2 36.2#

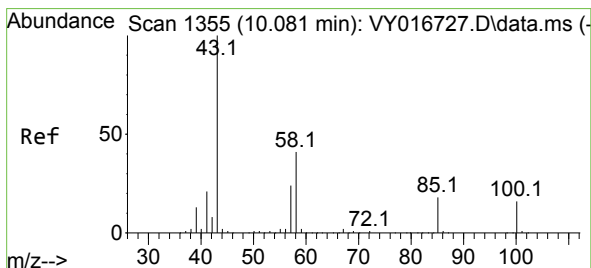
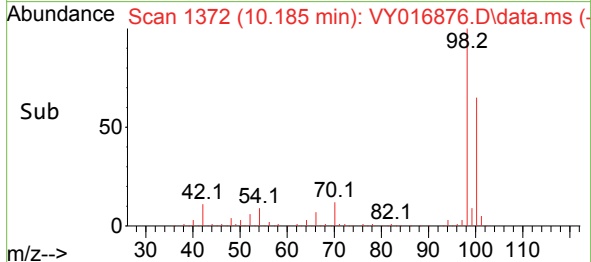
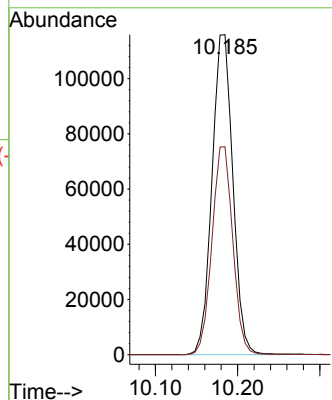
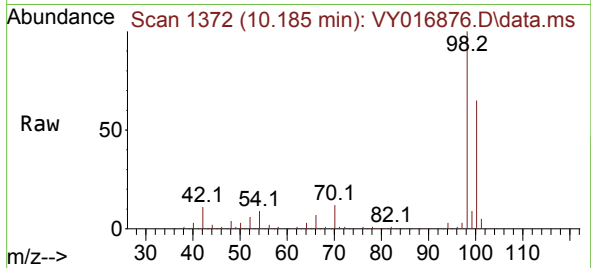




#50  
Toluene-d8  
Concen: 48.388 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.006 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

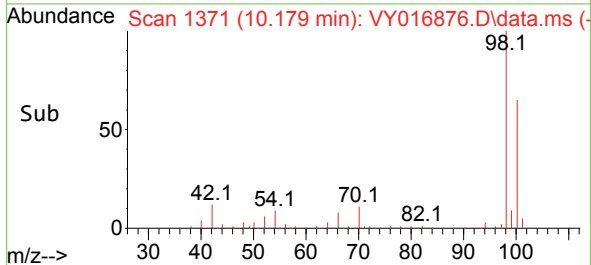
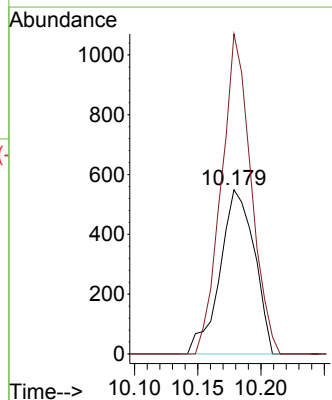
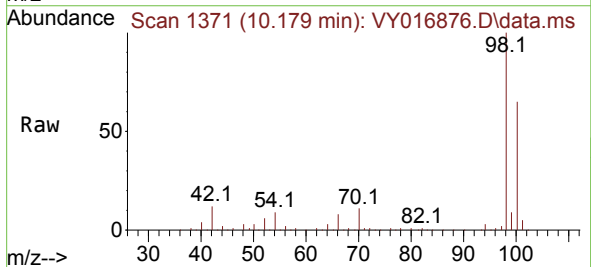
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-B-GRABRE

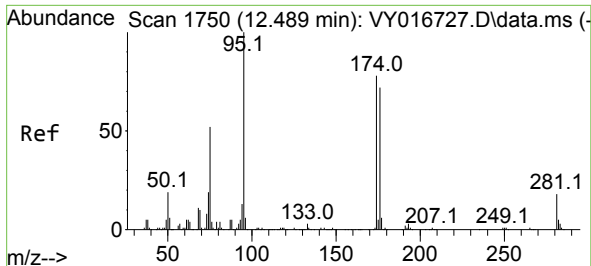
Tgt Ion: 98 Resp: 204393  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.3 78.5



#51  
4-Methyl-2-Pentanone  
Concen: 1.243 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.098 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Tgt Ion: 43 Resp: 1036  
Ion Ratio Lower Upper  
43 100  
58 168.7 32.2 48.2#

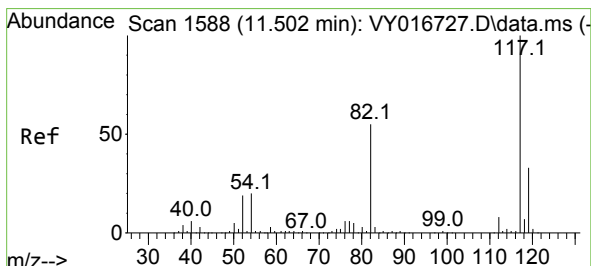
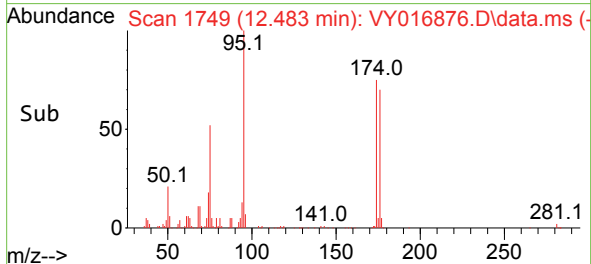
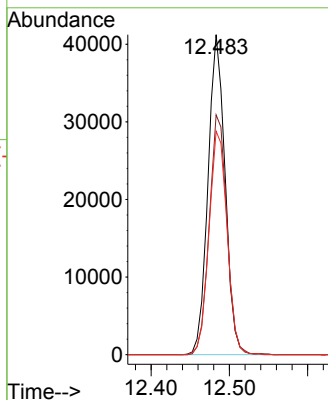
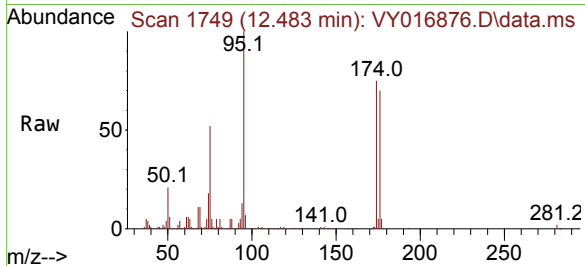




#62  
4-Bromofluorobenzene  
Concen: 45.577 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.006 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

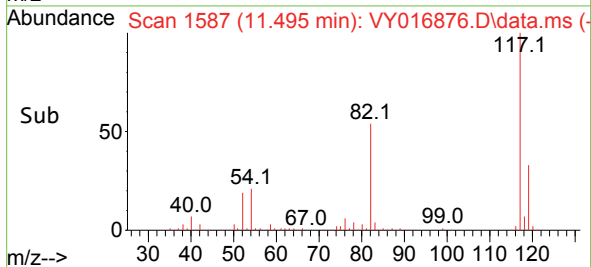
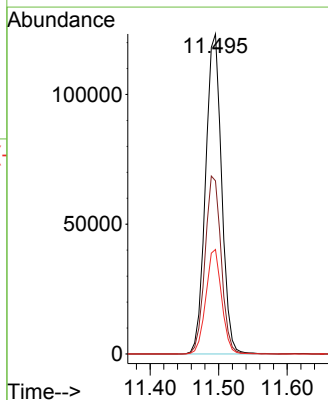
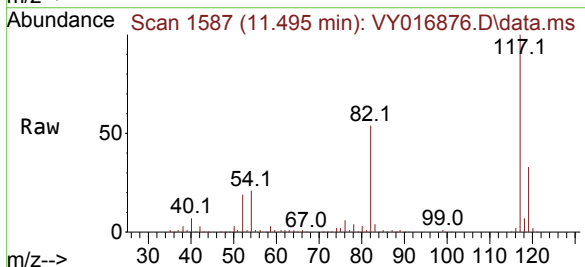
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-B-GRABRE

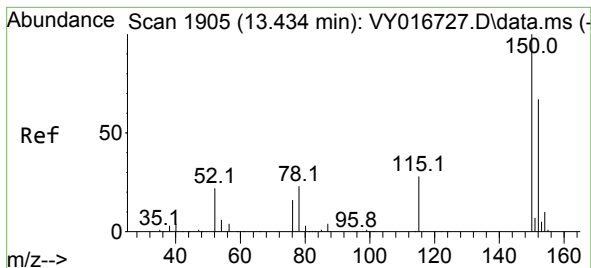
Tgt Ion: 95 Resp: 62459  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 160.0  
176 73.8 0.0 151.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.495 min Scan# 1587  
Delta R.T. -0.006 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Tgt Ion: 117 Resp: 200820  
Ion Ratio Lower Upper  
117 100  
82 54.1 43.8 65.8  
119 32.7 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.006 min

Lab File: VY016876.D

Acq: 27 Dec 2023 14:36

Instrument :

MSVOA\_Y

ClientSampleId :

WC-B-GRABRE

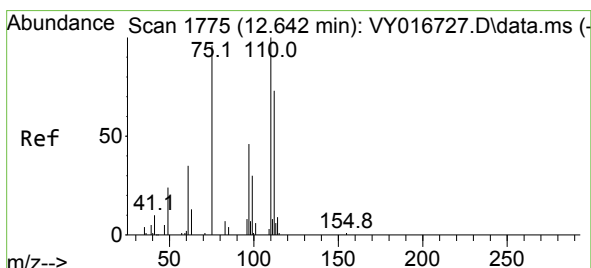
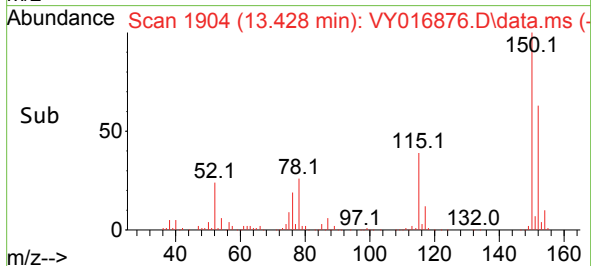
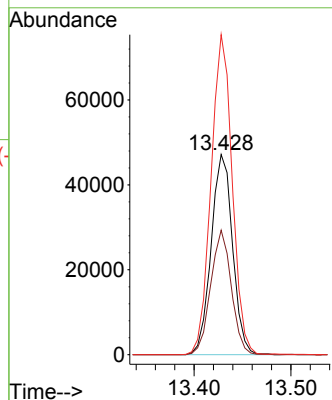
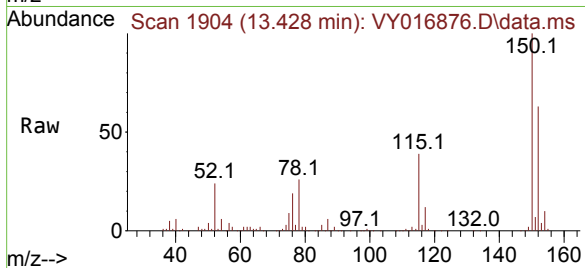
Tgt Ion:152 Resp: 72619

Ion Ratio Lower Upper

152 100

115 60.0 30.0 90.0

150 157.7 0.0 344.6



#76

1,2,3-Trichloropropane

Concen: 41.477 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.159 min

Lab File: VY016876.D

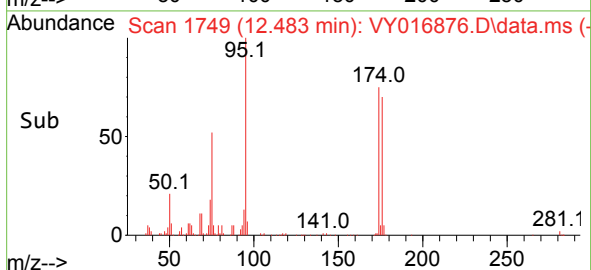
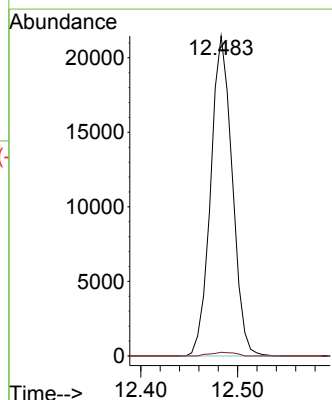
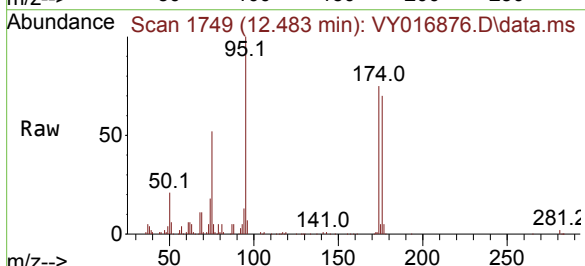
Acq: 27 Dec 2023 14:36

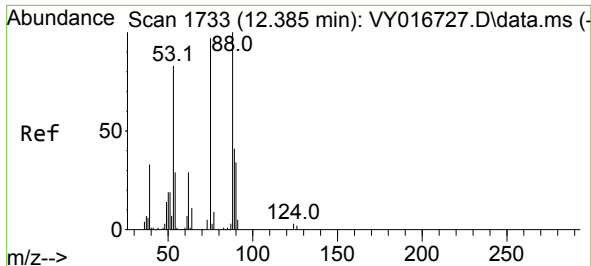
Tgt Ion: 75 Resp: 33296

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

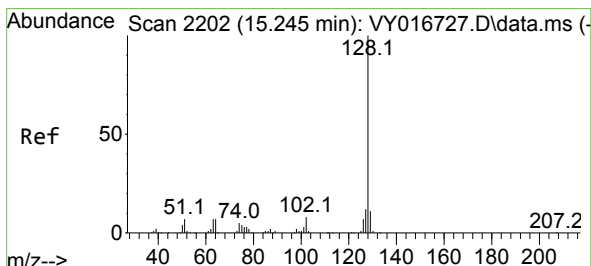
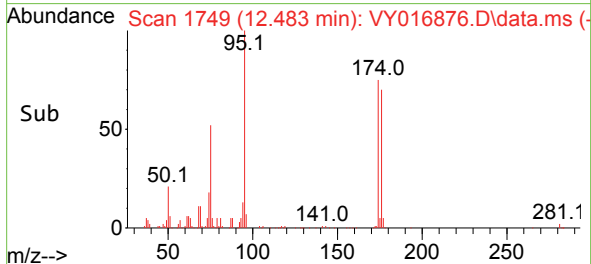
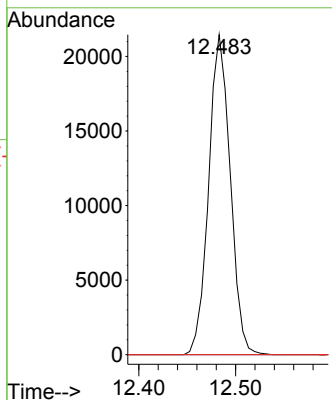
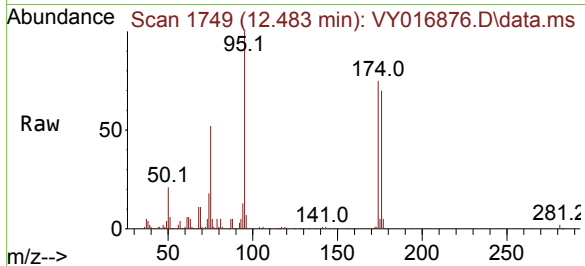




#81  
trans-1,4-Dichloro-2-butene  
Concen: 97.405 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.098 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-B-GRABRE

Tgt Ion: 75 Resp: 33296  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.0 111.0#  
89 0.0 36.5 54.7#



#95  
Naphthalene  
Concen: 3.605 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.012 min  
Lab File: VY016876.D  
Acq: 27 Dec 2023 14:36

Tgt Ion: 128 Resp: 28  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.4#  
129 0.0 8.6 12.8#

