

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY033122\  
 Data File : VY008132.D  
 Acq On : 31 Mar 2022 12:25  
 Operator : SY/MD  
 Sample : N2176-02  
 Misc : 6.20g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TT-156-IDWSO-20220329-2

Quant Time: Mar 31 14:23:02 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032522S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 26 03:24:51 2022  
 Response via : Initial Calibration

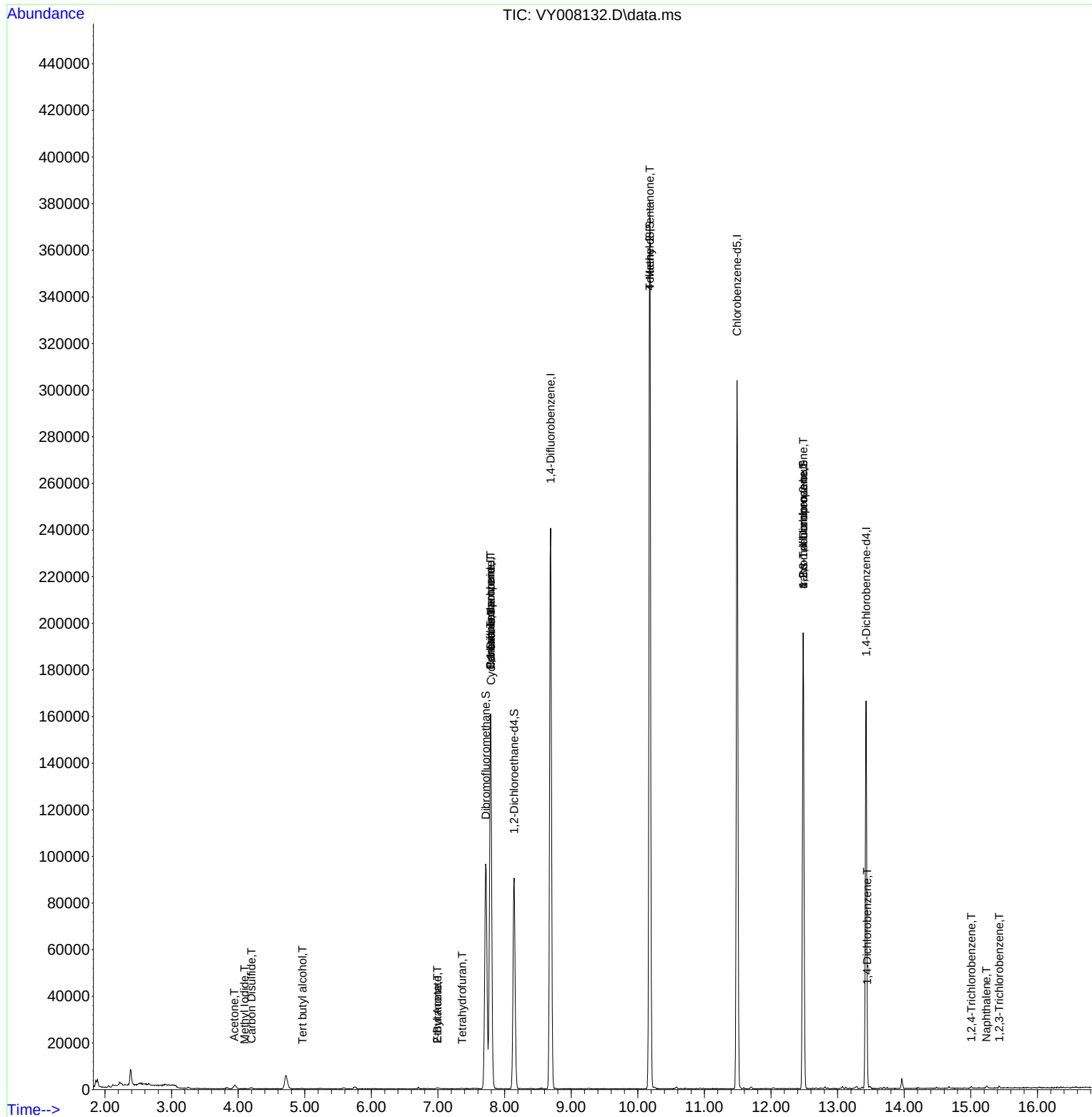
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 124677              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 218333              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 171730              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 42717               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.142          | 65   | 67374               | 53.861    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 107.720% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 70264               | 51.329    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 102.660% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 257236              | 49.878    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 99.760%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 57599               | 31.656    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 63.320%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 10) Methyl Iodide             | 4.094          | 142  | 119                 | 1.766     | ug/l # | 35       |
| 11) Tert butyl alcohol        | 4.966          | 59   | 233                 | 1.795     | ug/l # | 77       |
| 16) Acetone                   | 3.942          | 43   | 2903                | 10.153    | ug/l   | 95       |
| 17) Carbon Disulfide          | 4.198          | 76   | 1206                | 0.322     | ug/l # | 75       |
| 18) Methyl Acetate            | 4.479          | 43   | 169                 | Below Cal | #      | 56       |
| 20) Methylene Chloride        | 4.716          | 84   | 4678                | Below Cal | #      | 68       |
| 25) 2-Butanone                | 6.990          | 43   | 259                 | 0.595     | ug/l # | 54       |
| 29) Tetrahydrofuran           | 7.362          | 42   | 146                 | 0.516     | ug/l # | 38       |
| 31) Cyclohexane               | 7.795          | 56   | 2573                | 1.100     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 9576                | 4.453     | ug/l # | 51       |
| 37) Ethyl Acetate             | 6.990          | 43   | 259                 | 0.258     | ug/l # | 72       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 12716               | 5.427     | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.179         | 43   | 933                 | 0.938     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 29942               | 57.501    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 29942               | 128.294   | ug/l # | 7        |
| 88) 1,4-Dichlorobenzene       | 13.446         | 146  | 326                 | 0.204     | ug/l # | 35       |
| 93) 1,2,4-Trichlorobenzene    | 15.007         | 180  | 355                 | 0.420     | ug/l # | 52       |
| 95) Naphthalene               | 15.233         | 128  | 1067                | 0.571     | ug/l # | 85       |
| 96) 1,2,3-Trichlorobenzene    | 15.428         | 180  | 216                 | 0.295     | ug/l # | 36       |
| -----                         |                |      |                     |           |        |          |

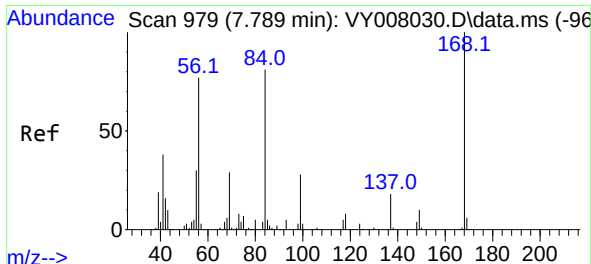
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY033122\  
Data File : VY008132.D  
Acq On : 31 Mar 2022 12:25  
Operator : SY/MD  
Sample : N2176-02  
Misc : 6.20g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TT-156-IDWSO-20220329-2

Quant Time: Mar 31 14:23:02 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032522S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 26 03:24:51 2022  
Response via : Initial Calibration

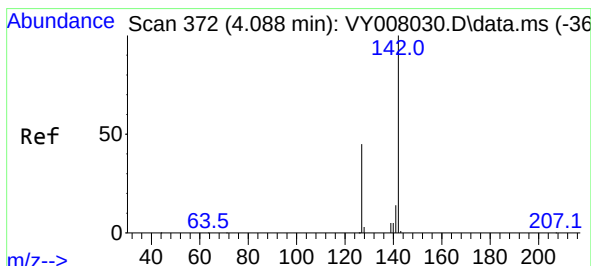
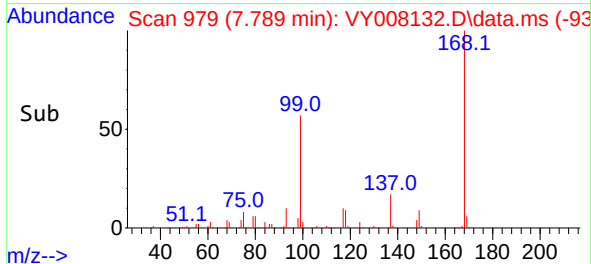
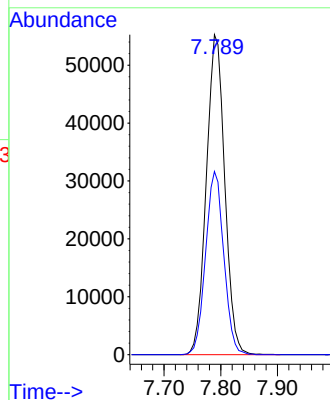
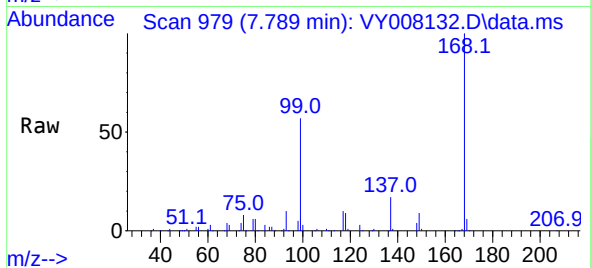




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

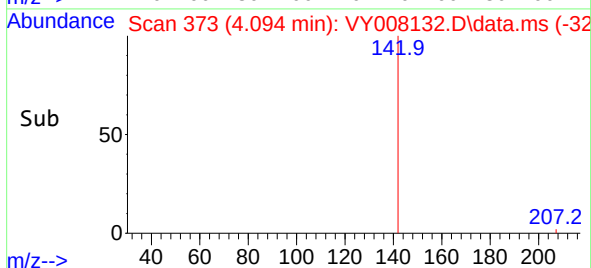
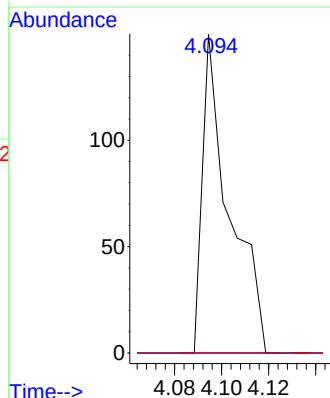
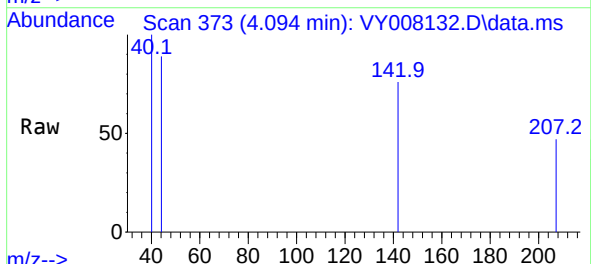
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TT-156-IDWSO-20220329-2

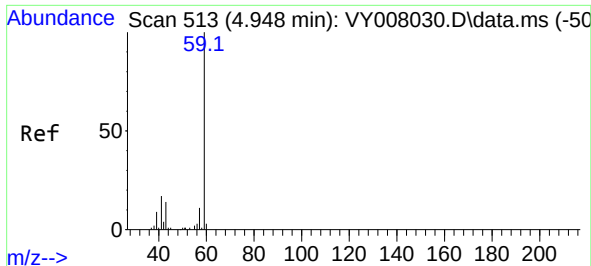
Tgt Ion:168 Resp: 124677  
Ion Ratio Lower Upper  
168 100  
99 57.2 46.9 70.3



#10  
Methyl Iodide  
Concen: 1.766 ug/l  
RT: 4.094 min Scan# 373  
Delta R.T. 0.006 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

Tgt Ion:142 Resp: 119  
Ion Ratio Lower Upper  
142 100  
127 0.0 41.5 62.3#  
141 0.0 11.9 17.9#





#11

Tert butyl alcohol

Concen: 1.795 ug/l

RT: 4.966 min Scan# 51

Delta R.T. 0.018 min

Lab File: VY008132.D

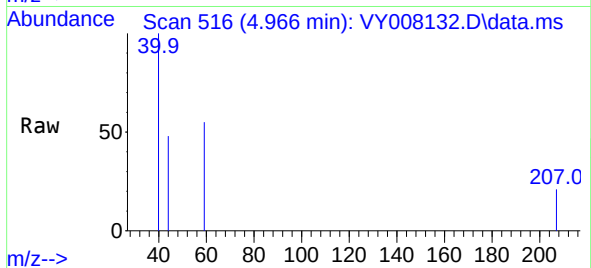
Acq: 31 Mar 2022 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

TT-156-IDWSO-20220329-2

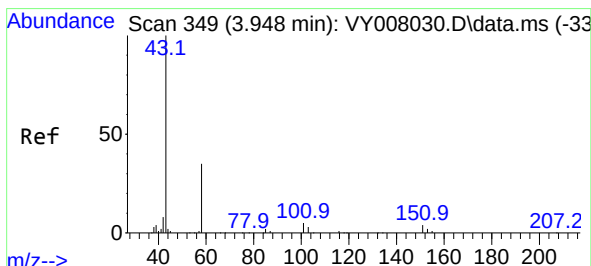
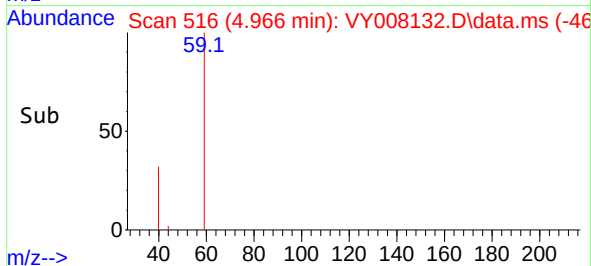
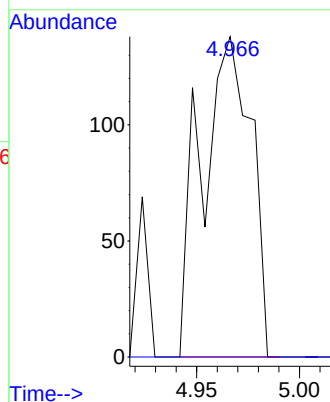


Tgt Ion: 59 Resp: 233

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#16

Acetone

Concen: 10.153 ug/l

RT: 3.942 min Scan# 348

Delta R.T. -0.006 min

Lab File: VY008132.D

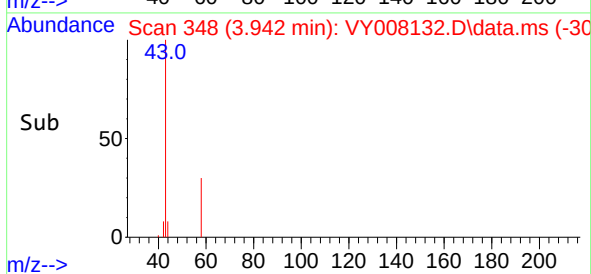
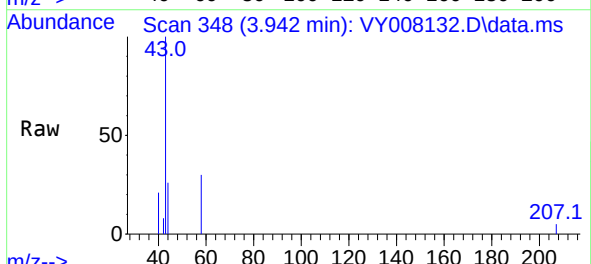
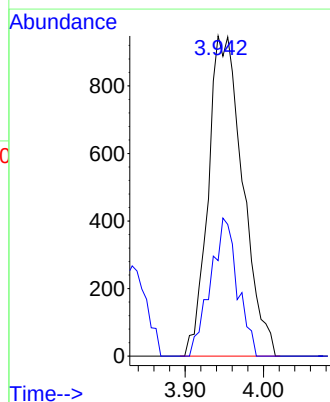
Acq: 31 Mar 2022 12:25

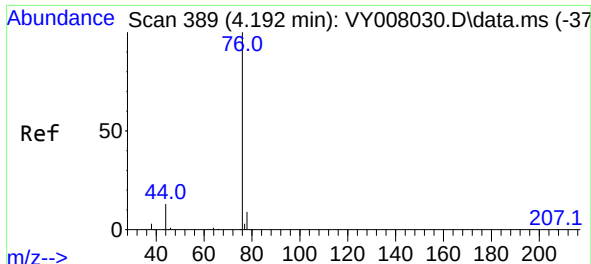
Tgt Ion: 43 Resp: 2903

Ion Ratio Lower Upper

43 100

58 29.9 22.0 33.0

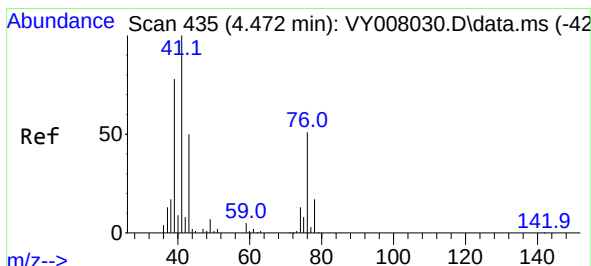
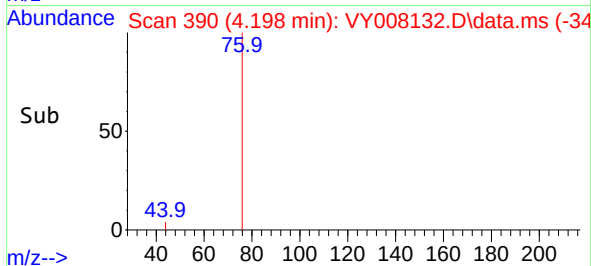
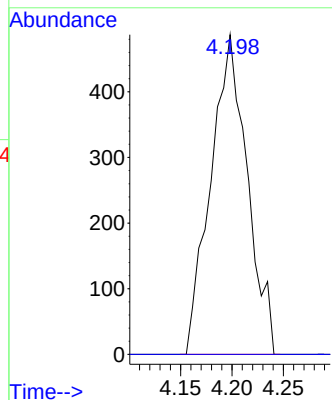
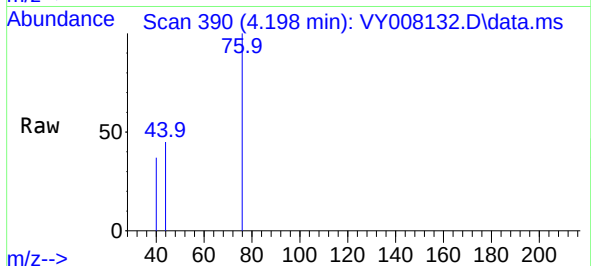




#17  
Carbon Disulfide  
Concen: 0.322 ug/l  
RT: 4.198 min Scan# 390  
Delta R.T. 0.006 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

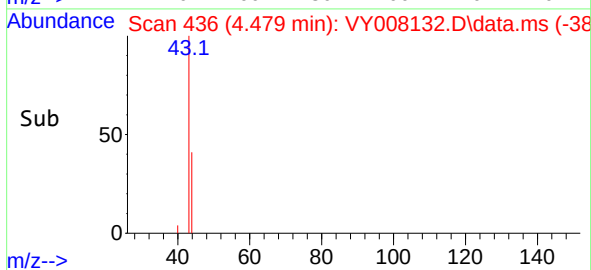
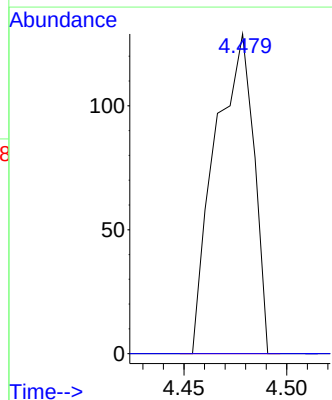
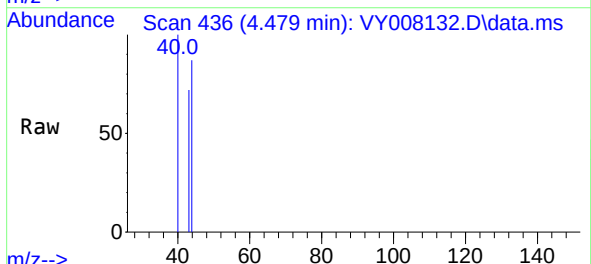
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TT-156-IDWSO-20220329-2

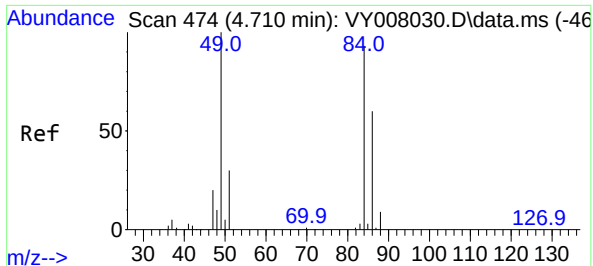
Tgt Ion: 76 Resp: 1206  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.479 min Scan# 436  
Delta R.T. 0.006 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

Tgt Ion: 43 Resp: 169  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#

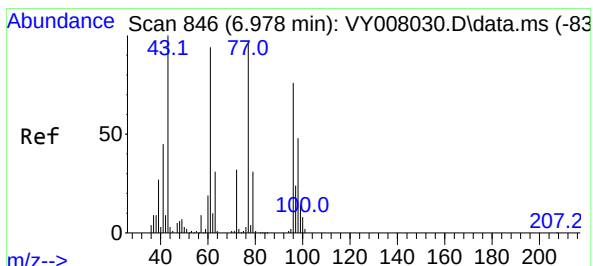
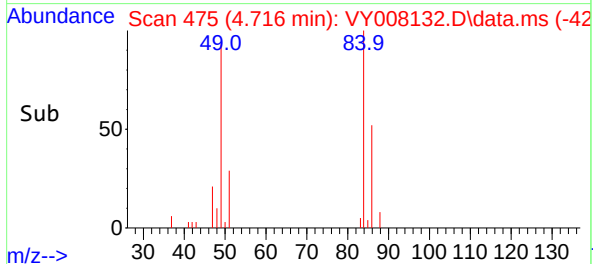
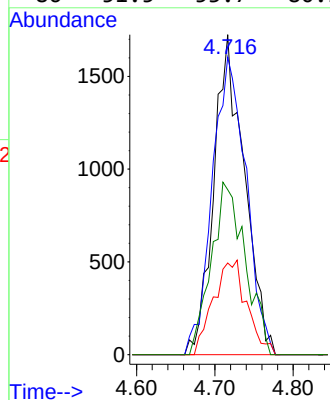
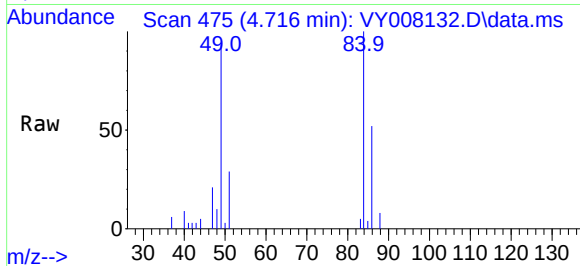




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.716 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

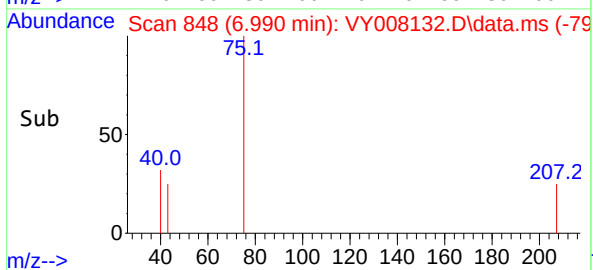
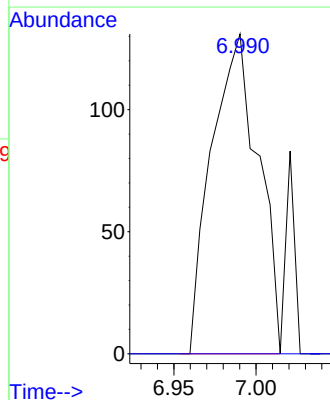
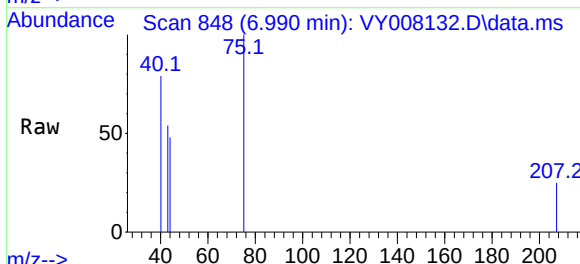
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TT-156-IDWSO-20220329-2

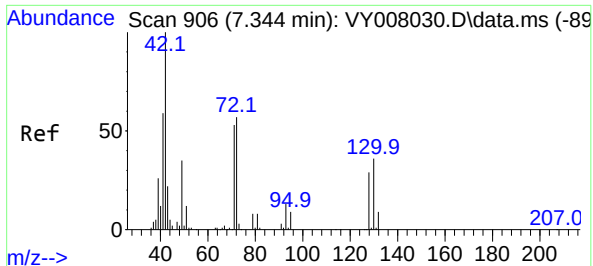
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 4678   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 93.0  | 114.4 | 171.6# |
| 51       | 28.6  | 35.3  | 52.9#  |
| 86       | 51.5  | 53.7  | 80.5#  |



#25  
2-Butanone  
Concen: 0.595 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.012 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 259   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 17.7  | 26.5# |





#29

Tetrahydrofuran

Concen: 0.516 ug/l

RT: 7.362 min Scan# 90

Delta R.T. 0.018 min

Lab File: VY008132.D

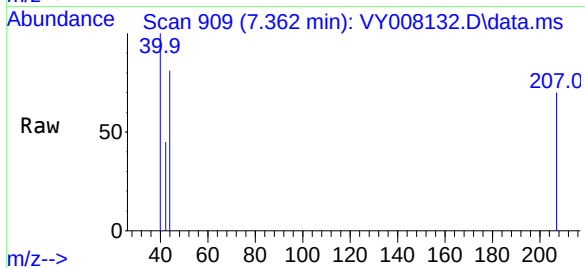
Acq: 31 Mar 2022 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

TT-156-IDWSO-20220329-2



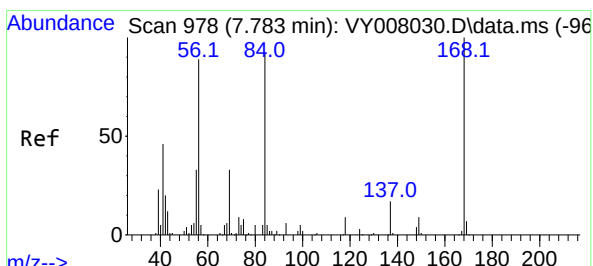
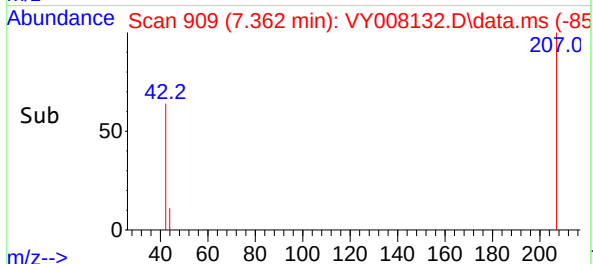
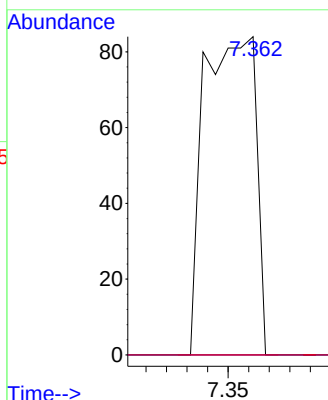
Tgt Ion: 42 Resp: 146

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 29.0 43.4#



#31

Cyclohexane

Concen: 1.100 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.012 min

Lab File: VY008132.D

Acq: 31 Mar 2022 12:25

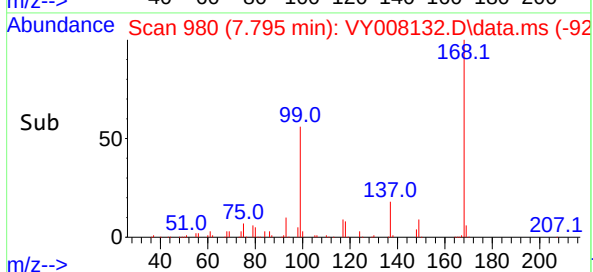
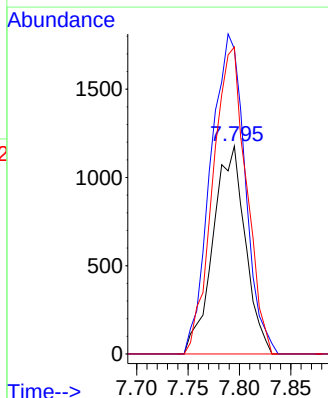
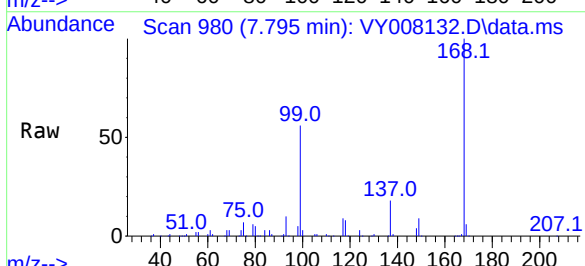
Tgt Ion: 56 Resp: 2573

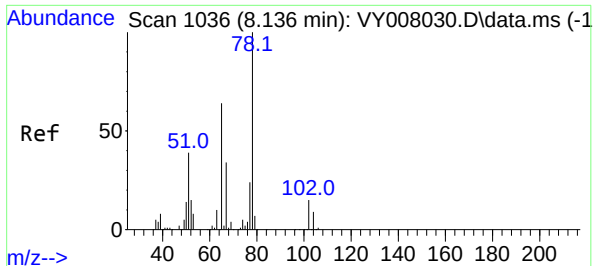
Ion Ratio Lower Upper

56 100

69 146.8 26.7 40.1#

84 147.6 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 53.861 ug/l

RT: 8.142 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY008132.D

Acq: 31 Mar 2022 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

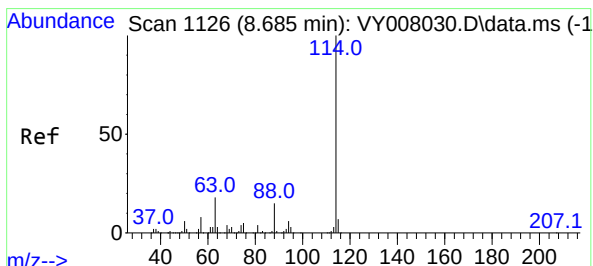
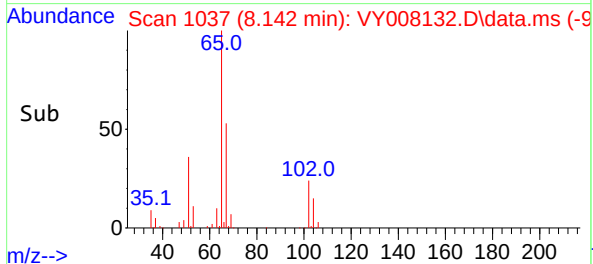
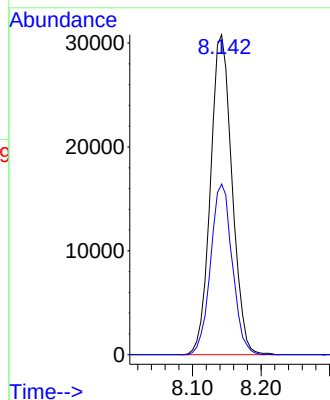
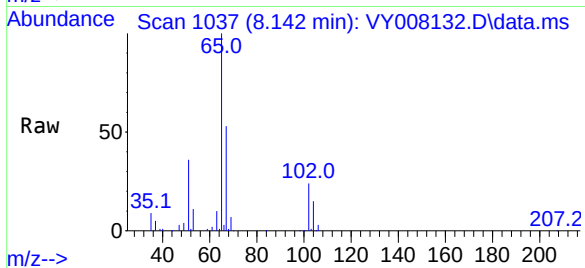
TT-156-IDWSO-20220329-2

Tgt Ion: 65 Resp: 67374

Ion Ratio Lower Upper

65 100

67 53.5 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY008132.D

Acq: 31 Mar 2022 12:25

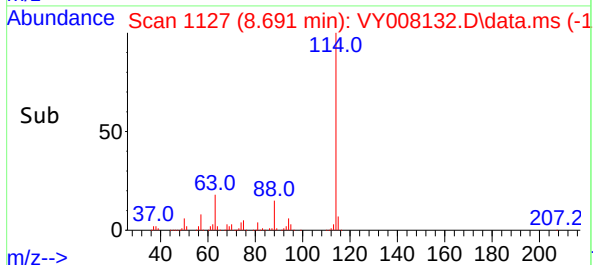
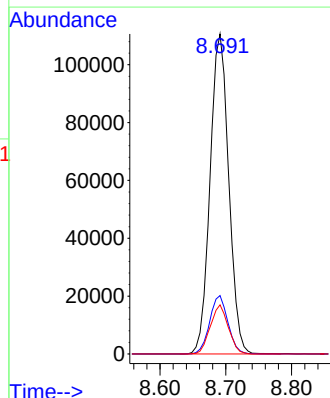
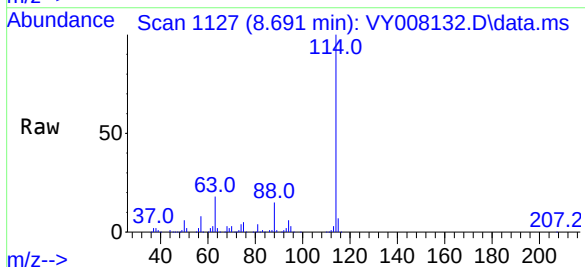
Tgt Ion: 114 Resp: 218333

Ion Ratio Lower Upper

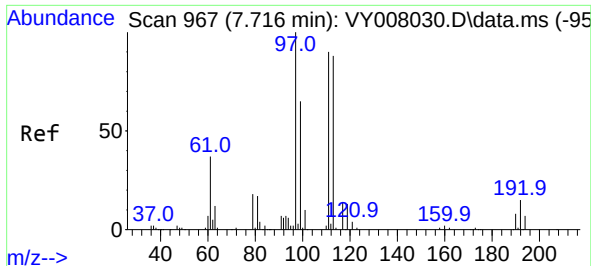
114 100

63 18.3 0.0 43.2

88 15.4 0.0 31.8







#35

Dibromofluoromethane

Concen: 51.329 ug/l

RT: 7.716 min Scan# 9

Delta R.T. -0.000 min

Lab File: VY008132.D

Acq: 31 Mar 2022 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

TT-156-IDWSO-20220329-2

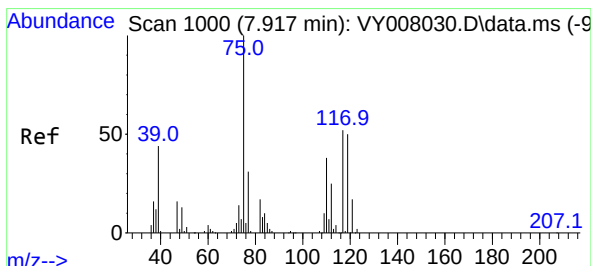
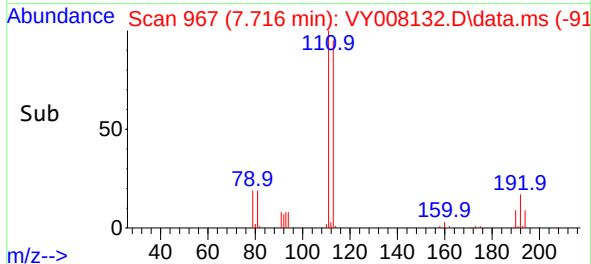
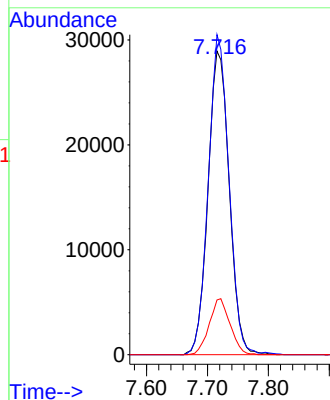
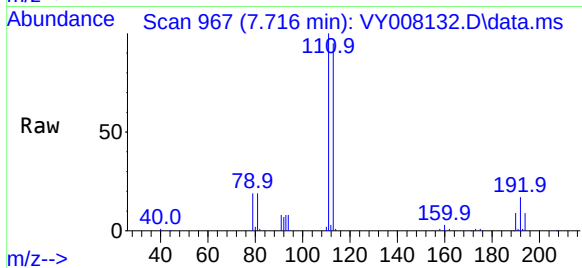
Tgt Ion:113 Resp: 70264

Ion Ratio Lower Upper

113 100

111 101.9 82.6 124.0

192 18.0 17.6 26.4



#36

1,1-Dichloropropene

Concen: 4.453 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.128 min

Lab File: VY008132.D

Acq: 31 Mar 2022 12:25

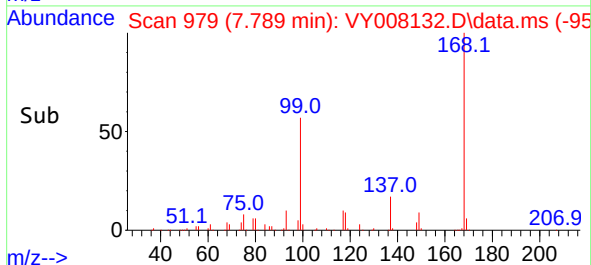
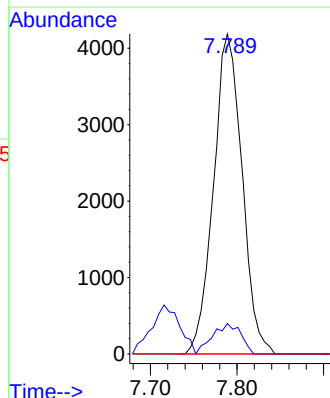
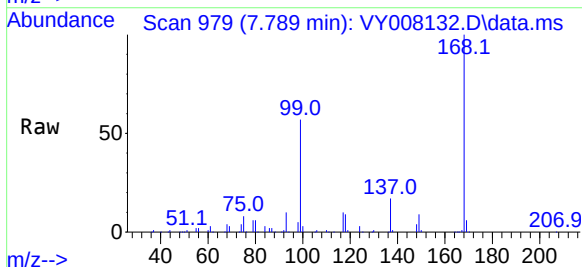
Tgt Ion: 75 Resp: 9576

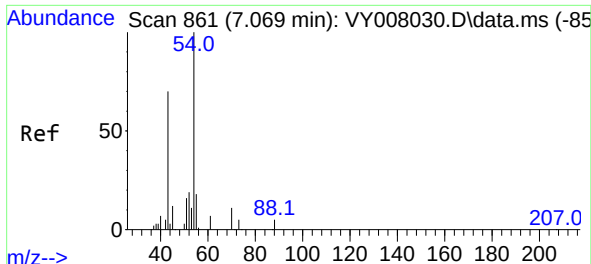
Ion Ratio Lower Upper

75 100

110 9.4 17.1 51.2#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.258 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

Lab File: VY008132.D

Acq: 31 Mar 2022 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

TT-156-IDWSO-20220329-2

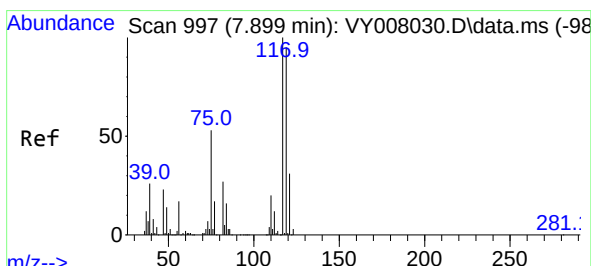
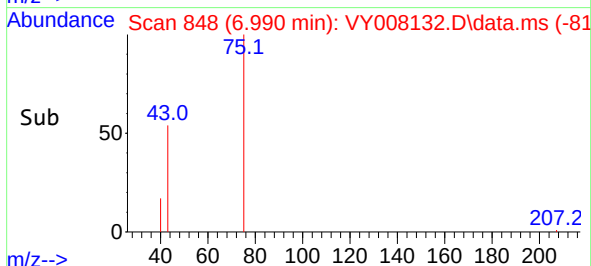
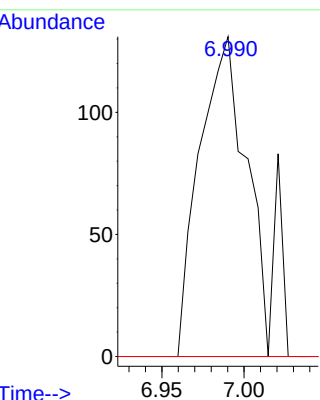
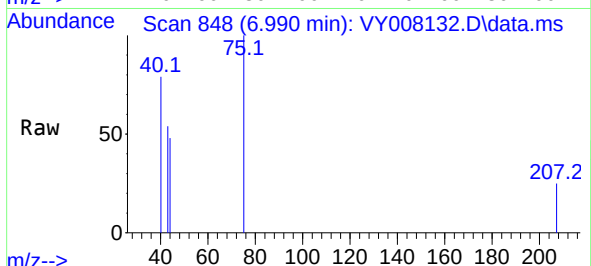
Tgt Ion: 43 Resp: 259

Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.427 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY008132.D

Acq: 31 Mar 2022 12:25

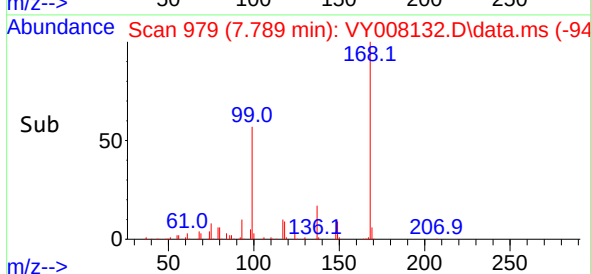
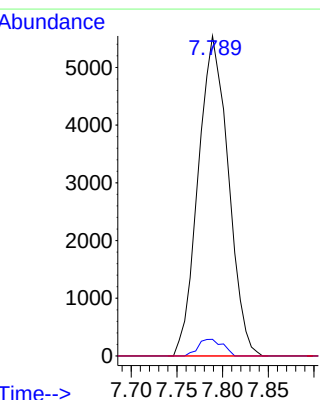
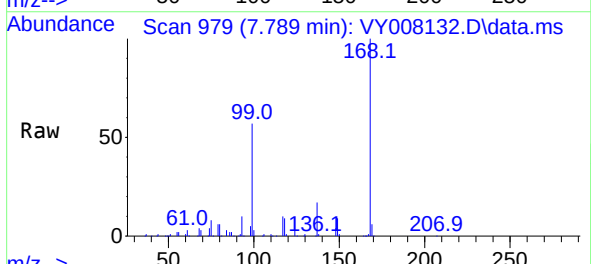
Tgt Ion: 117 Resp: 12716

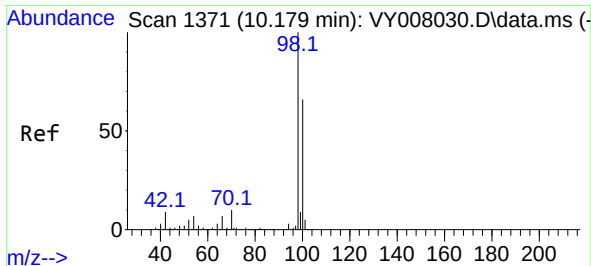
Ion Ratio Lower Upper

117 100

119 5.2 77.9 116.9#

121 0.0 24.8 37.2#

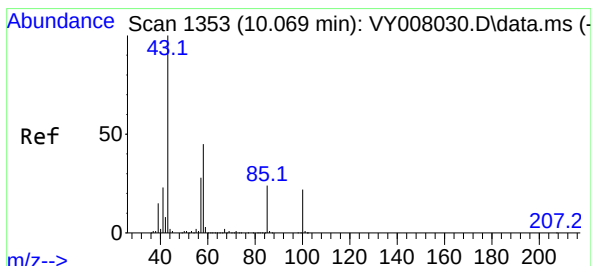
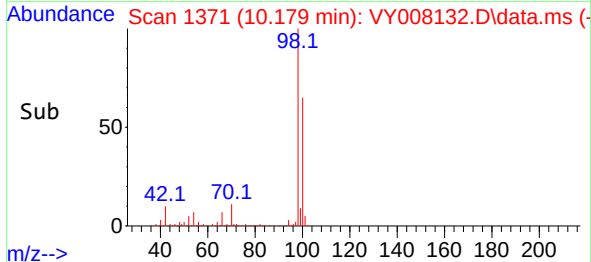
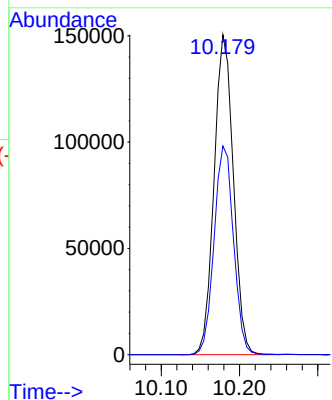
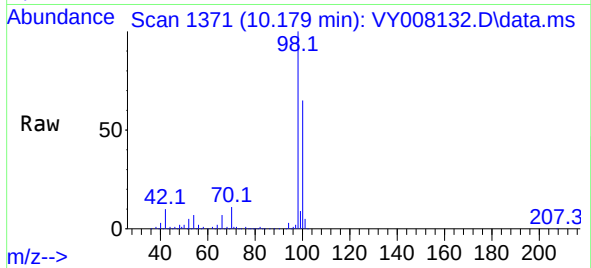




#50  
Toluene-d8  
Concen: 49.878 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

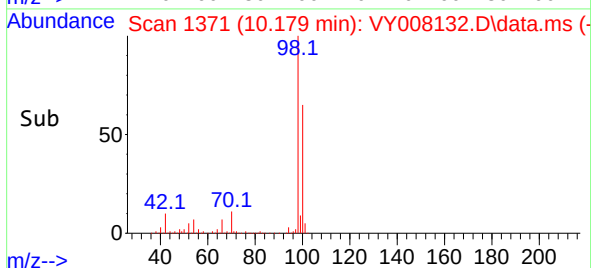
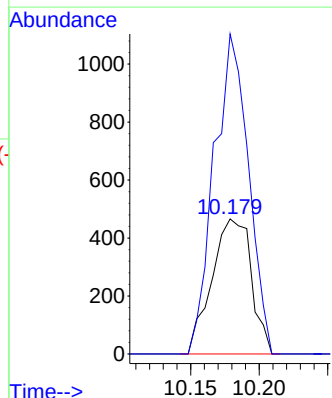
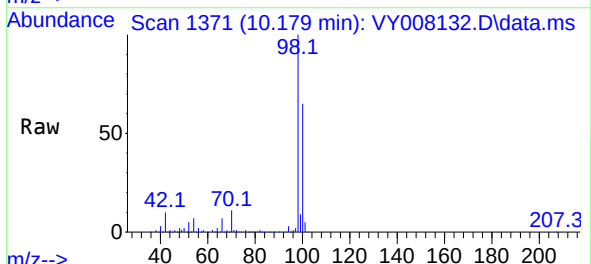
Instrument : MSVOA\_Y  
ClientSampleId : TT-156-IDWSO-20220329-2

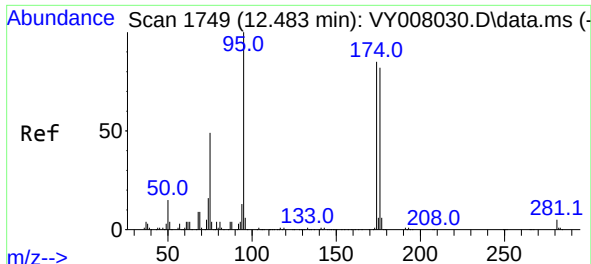
Tgt Ion: 98 Resp: 257236  
Ion Ratio Lower Upper  
98 100  
100 65.9 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 0.938 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.110 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

Tgt Ion: 43 Resp: 933  
Ion Ratio Lower Upper  
43 100  
58 206.8 28.1 42.1#

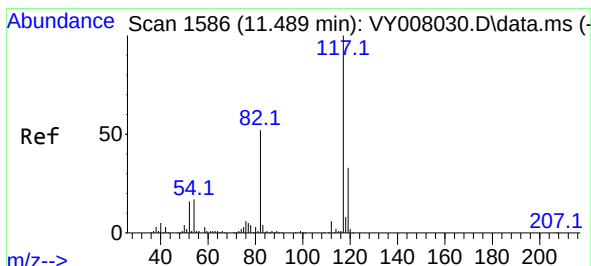
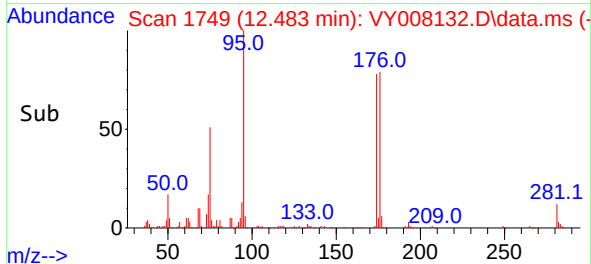
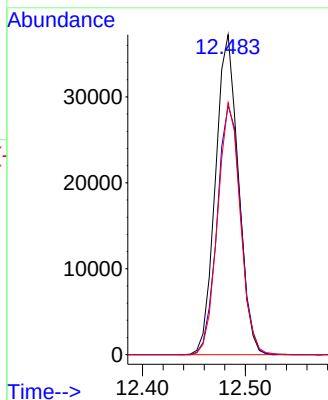
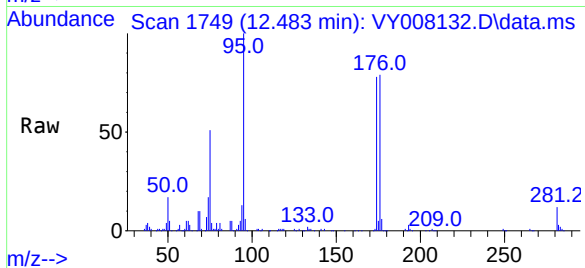




#62  
4-Bromofluorobenzene  
Concen: 31.656 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

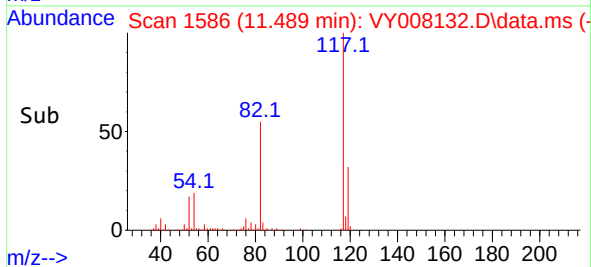
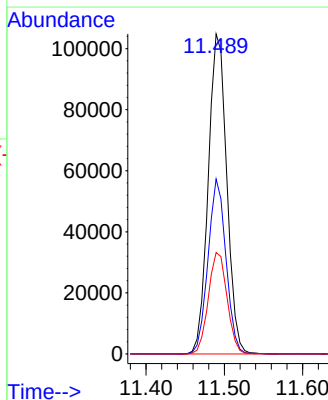
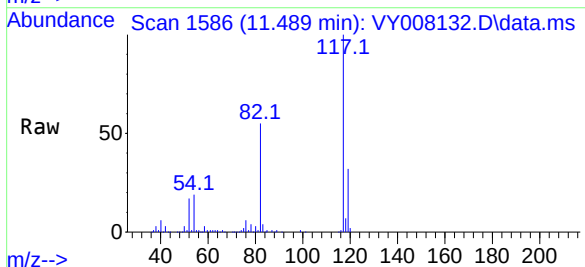
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TT-156-IDWSO-20220329-2

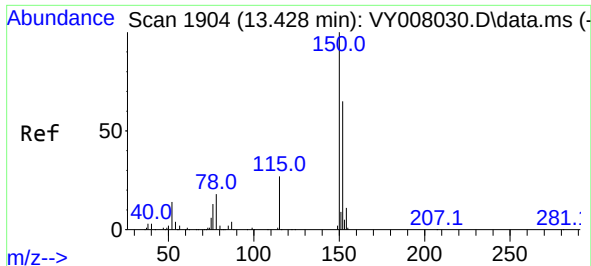
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 57599 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 80.4  | 0.0   | 177.0 |
| 176      | 78.0  | 0.0   | 175.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 171730 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.7  | 43.0  | 64.4   |
| 119      | 31.7  | 25.4  | 38.0   |

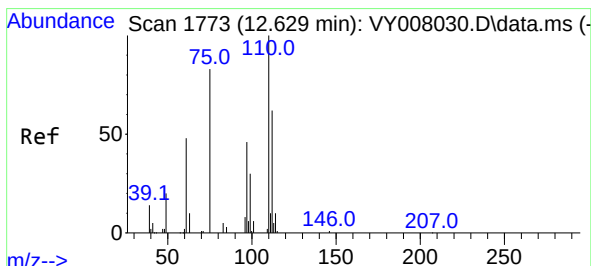
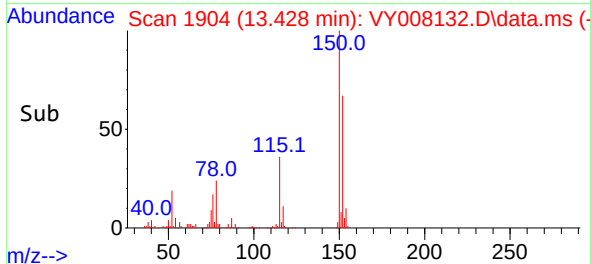
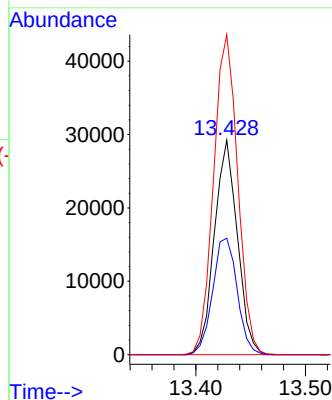
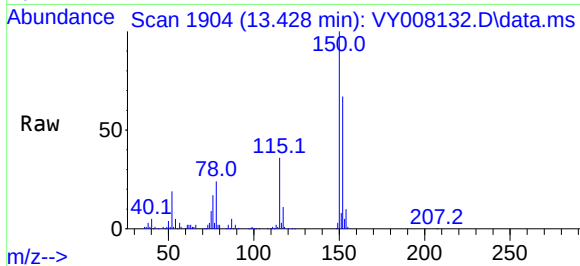




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.428 min Scan# 1904  
 Delta R.T. 0.000 min  
 Lab File: VY008132.D  
 Acq: 31 Mar 2022 12:25

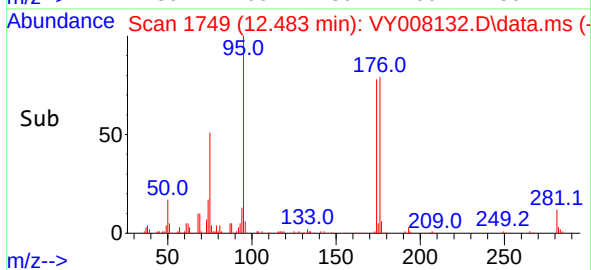
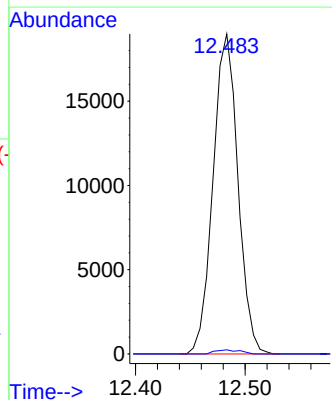
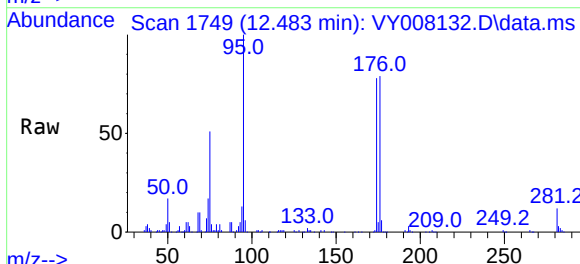
Instrument : MSVOA\_Y  
 ClientSampleId : TT-156-IDWSO-20220329-2

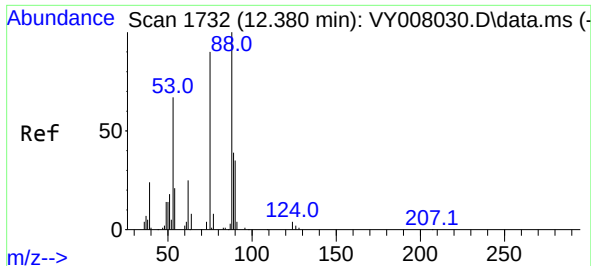
Tgt Ion:152 Resp: 42717  
 Ion Ratio Lower Upper  
 152 100  
 115 57.9 28.2 84.7  
 150 156.3 0.0 347.6



#76  
 1,2,3-Trichloropropane  
 Concen: 57.501 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. -0.146 min  
 Lab File: VY008132.D  
 Acq: 31 Mar 2022 12:25

Tgt Ion: 75 Resp: 29942  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#

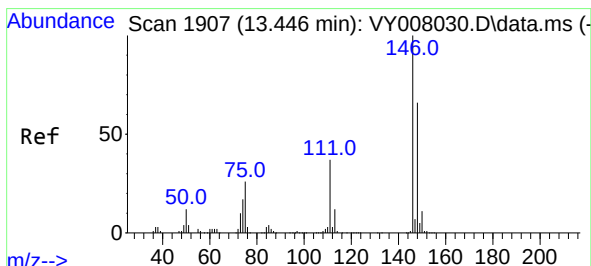
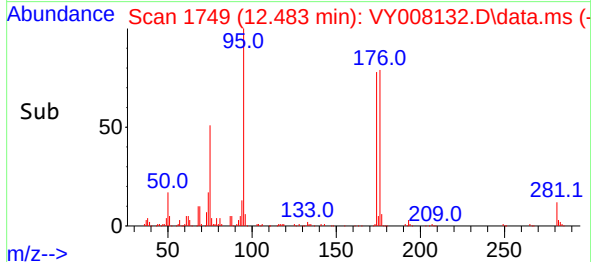
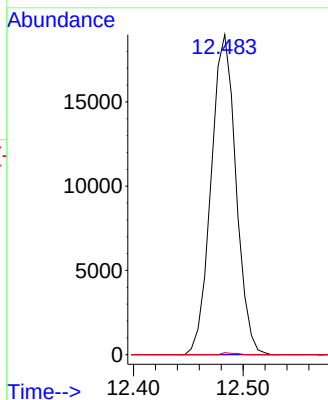
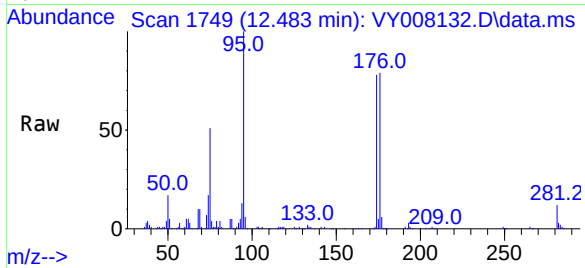




#81  
trans-1,4-Dichloro-2-butene  
Concen: 128.294 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.103 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

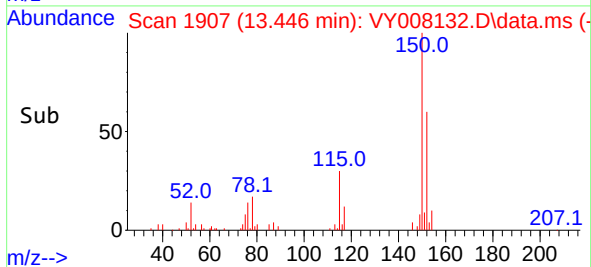
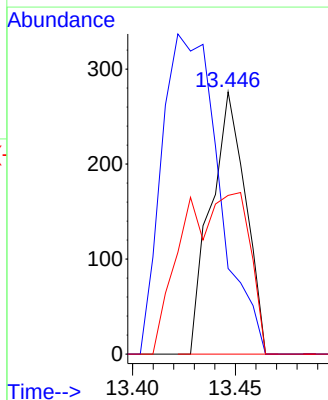
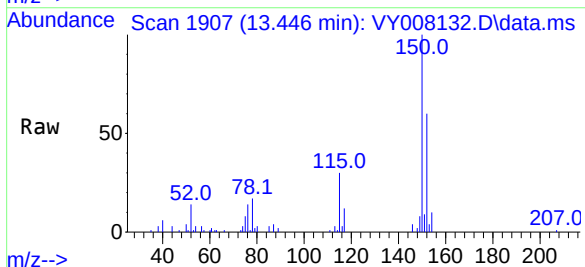
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TT-156-IDWSO-20220329-2

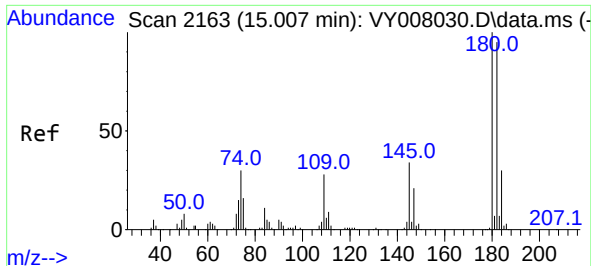
Tgt Ion: 75 Resp: 29942  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.3 37.0 55.4#



#88  
1,4-Dichlorobenzene  
Concen: 0.204 ug/l  
RT: 13.446 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

Tgt Ion:146 Resp: 326  
Ion Ratio Lower Upper  
146 100  
111 0.0 19.3 57.8#  
148 117.8 32.6 97.8#

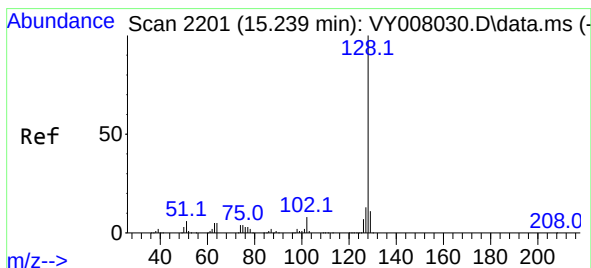
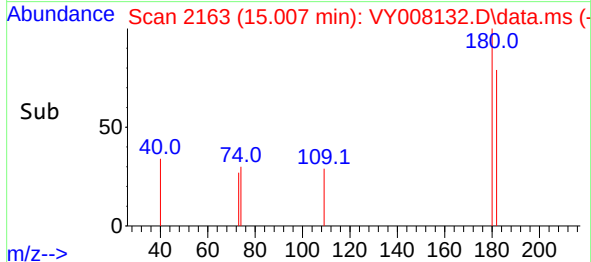
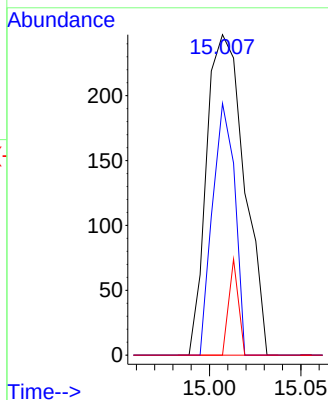
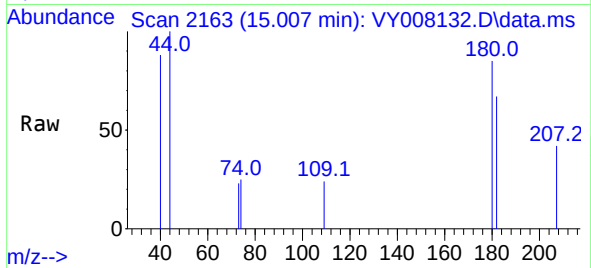




#93  
1,2,4-Trichlorobenzene  
Concen: 0.420 ug/l  
RT: 15.007 min Scan# 2163  
Delta R.T. 0.000 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

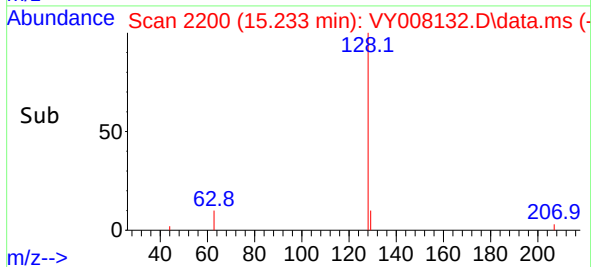
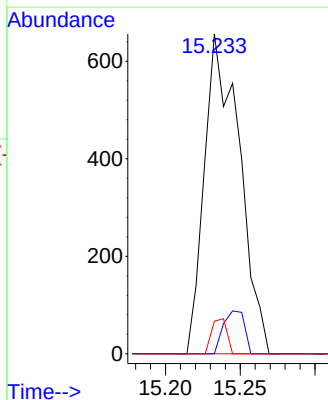
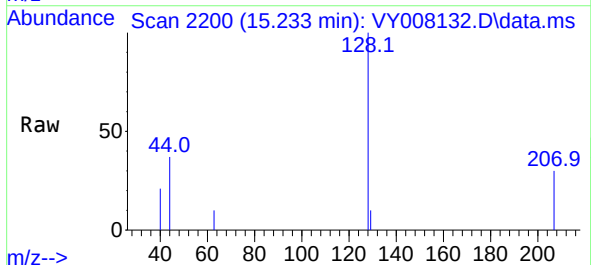
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TT-156-IDWSO-20220329-2

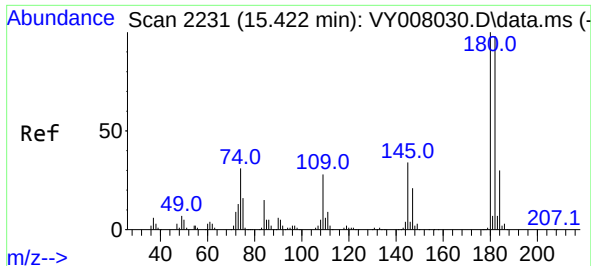
Tgt Ion:180 Resp: 355  
Ion Ratio Lower Upper  
180 100  
182 46.2 47.3 141.9#  
145 7.6 14.6 43.8#



#95  
Naphthalene  
Concen: 0.571 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.006 min  
Lab File: VY008132.D  
Acq: 31 Mar 2022 12:25

Tgt Ion:128 Resp: 1067  
Ion Ratio Lower Upper  
128 100  
127 8.1 11.0 16.4#  
129 4.8 8.4 12.6#





#96

1,2,3-Trichlorobenzene

Concen: 0.295 ug/l

RT: 15.428 min Scan# 21

Delta R.T. 0.006 min

Lab File: VY008132.D

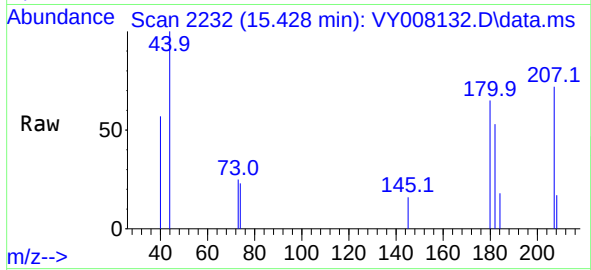
Acq: 31 Mar 2022 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

TT-156-IDWSO-20220329-2



Tgt Ion:180 Resp: 216

Ion Ratio Lower Upper

180 100

182 169.9 47.3 141.9#

145 18.5 15.3 45.9

