

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081922\  
 Data File : VY010114.D  
 Acq On : 19 Aug 2022 19:26  
 Operator : KP/MD  
 Sample : N4217-01  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP1-0815RE

Quant Time: Aug 22 02:44:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081922S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 22 02:37:07 2022  
 Response via : Initial Calibration

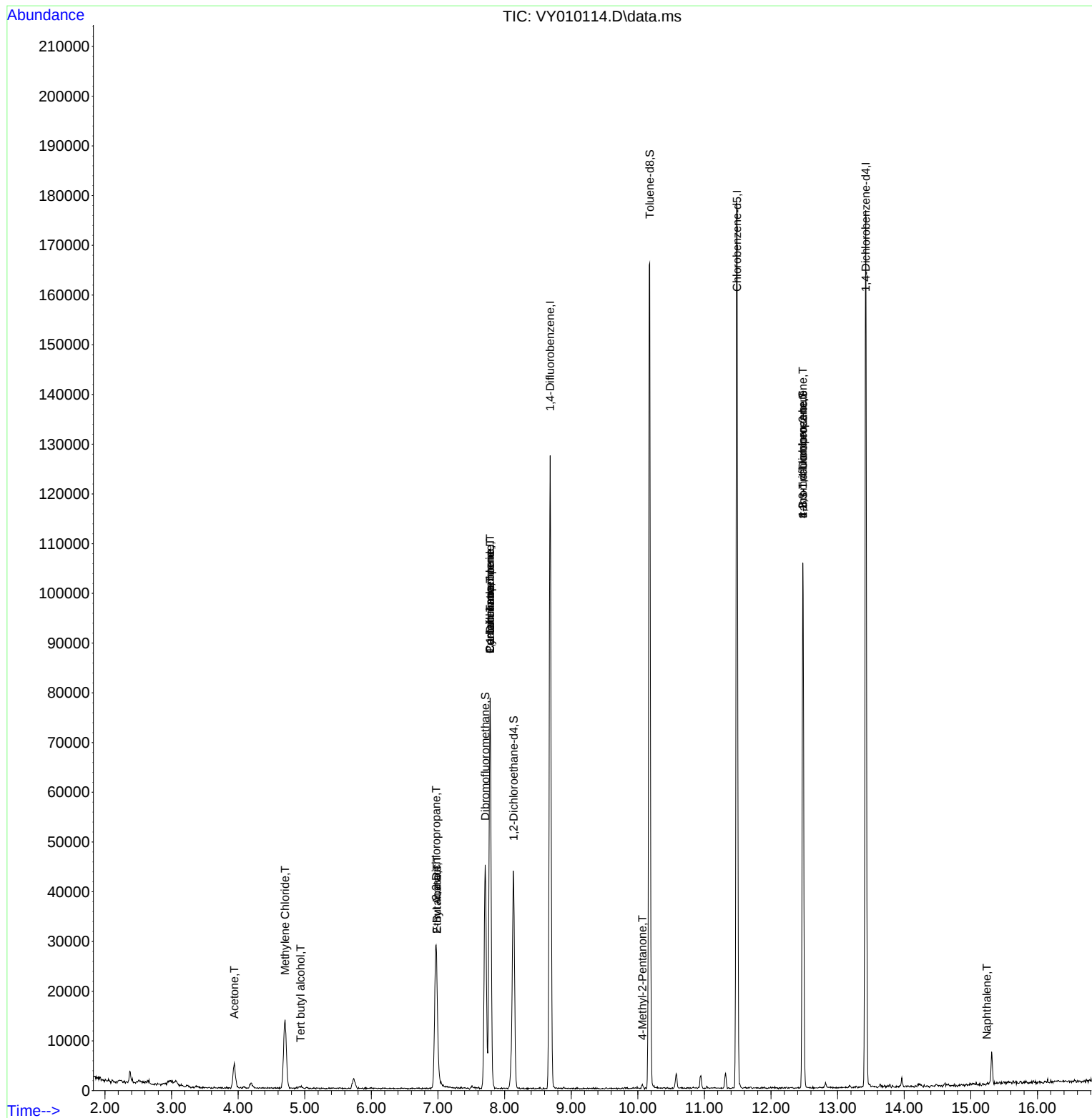
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 61640    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 109846   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 103074   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 47431    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 30682    | 60.770   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 121.540% |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 32206    | 52.032   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 104.060% |          |
| 50) Toluene-d8                | 10.179 | 98    | 114053   | 49.176   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | = 98.360%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 31545    | 38.067   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | = 76.140%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.936  | 59    | 775      | 24.642   | ug/l #     | 73       |
| 16) Acetone                   | 3.942  | 43    | 8438     | 66.775   | ug/l       | 97       |
| 20) Methylene Chloride        | 4.704  | 84    | 10483    | 7.768    | ug/l       | 95       |
| 25) 2-Butanone                | 6.984  | 43    | 2007     | 9.874    | ug/l #     | 85       |
| 26) 2,2-Dichloropropane       | 6.972  | 77    | 2389     | 2.510    | ug/l #     | 50       |
| 31) Cyclohexane               | 7.783  | 56    | 1204     | 1.164    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 4382     | 4.435    | ug/l #     | 49       |
| 37) Ethyl Acetate             | 6.984  | 43    | 2007     | 4.001    | ug/l #     | 3        |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 5887     | 5.682    | ug/l #     | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43    | 659      | 1.345    | ug/l #     | 80       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 15522    | 34.943   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 15522    | 70.184   | ug/l #     | 18       |
| 95) Naphthalene               | 15.239 | 128   | 213      | 3.996    | ug/l #     | 69       |
| -----                         |        |       |          |          |            |          |

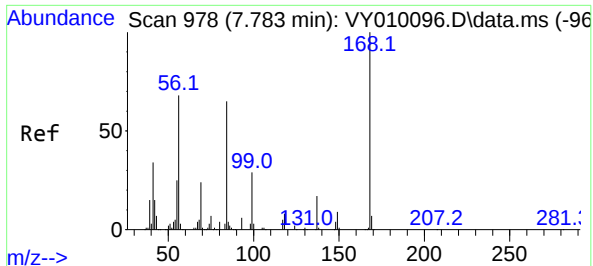
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081922\  
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QLast Update : Mon Aug 22 02:37:07 2022  
Response via : Initial Calibration

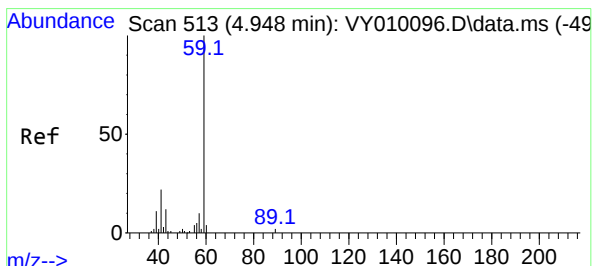
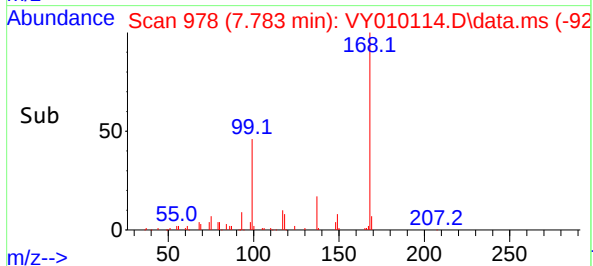
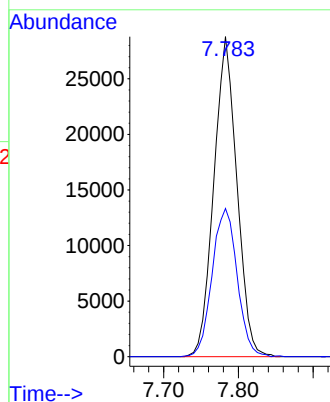
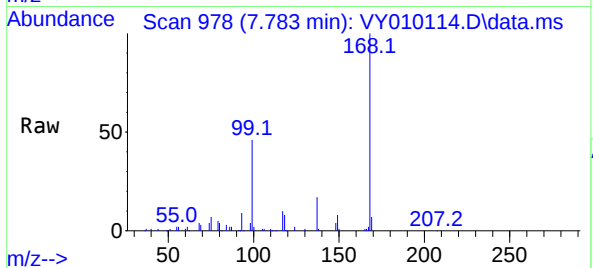




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

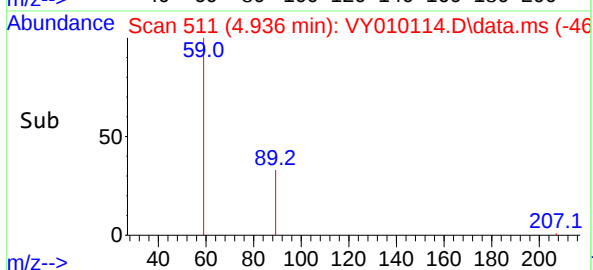
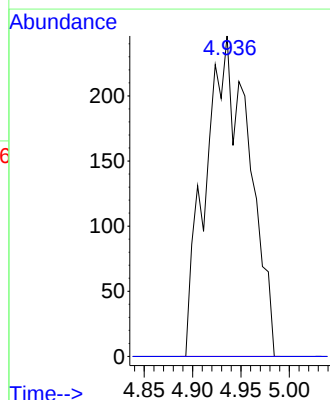
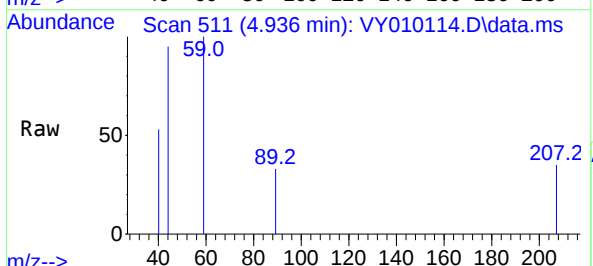
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE

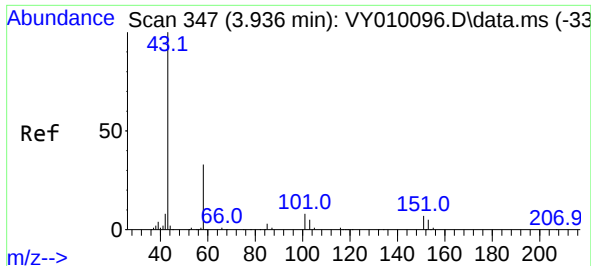
Tgt Ion:168 Resp: 61640  
Ion Ratio Lower Upper  
168 100  
99 46.3 40.7 61.1



#11  
Tert butyl alcohol  
Concen: 24.642 ug/l  
RT: 4.936 min Scan# 511  
Delta R.T. -0.012 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Tgt Ion: 59 Resp: 775  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

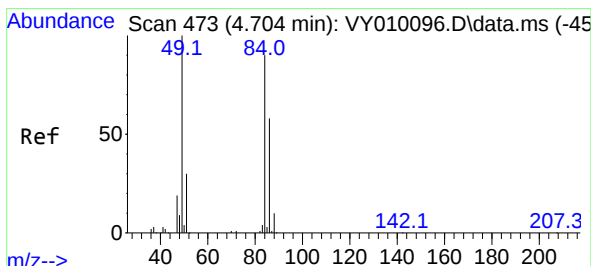
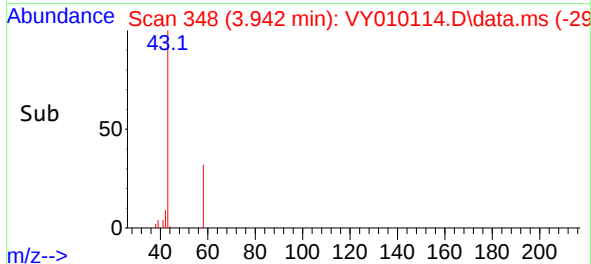
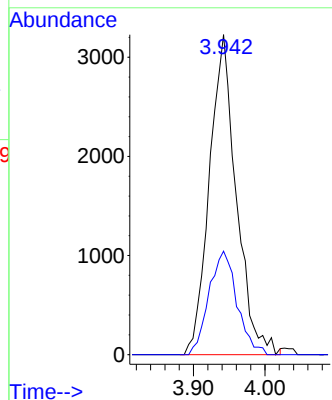
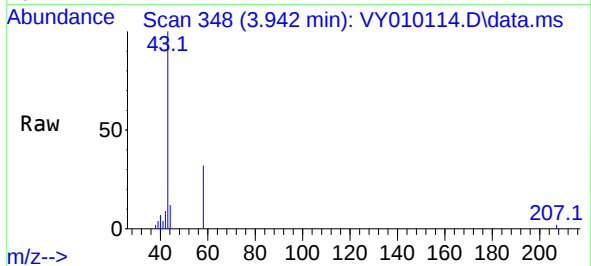




#16  
Acetone  
Concen: 66.775 ug/l  
RT: 3.942 min Scan# 347  
Delta R.T. 0.006 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

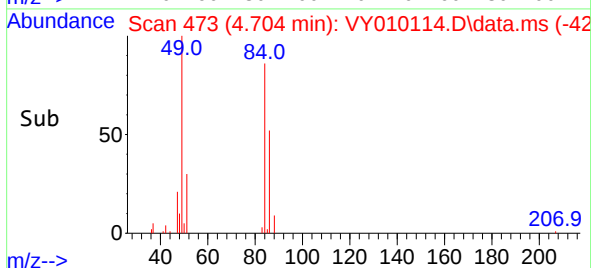
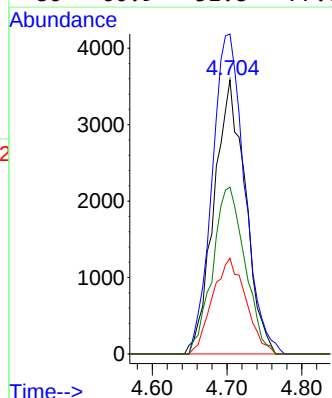
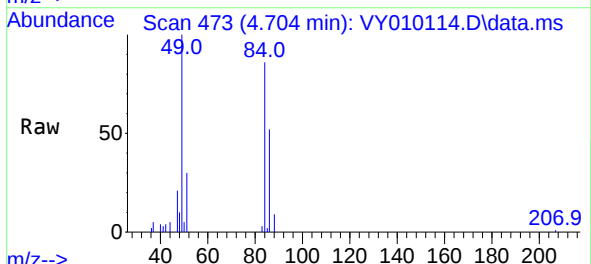
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE

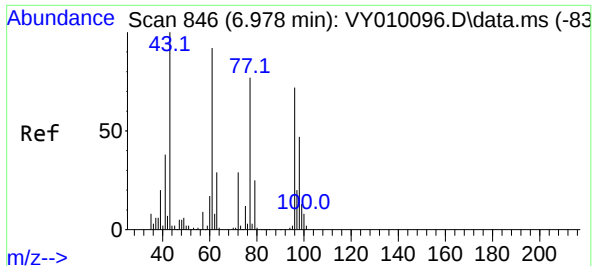
Tgt Ion: 43 Resp: 8438  
Ion Ratio Lower Upper  
43 100  
58 32.3 27.4 41.0



#20  
Methylene Chloride  
Concen: 7.768 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. -0.000 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Tgt Ion: 84 Resp: 10483  
Ion Ratio Lower Upper  
84 100  
49 116.7 89.0 133.4  
51 34.9 27.0 40.6  
86 60.9 51.8 77.6





#25

2-Butanone

Concen: 9.874 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.006 min

Lab File: VY010114.D

Acq: 19 Aug 2022 19:26

Instrument :

MSVOA\_Y

ClientSampleId :

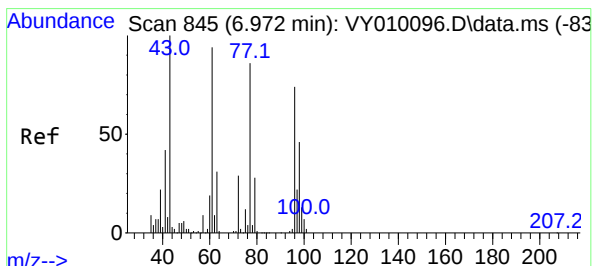
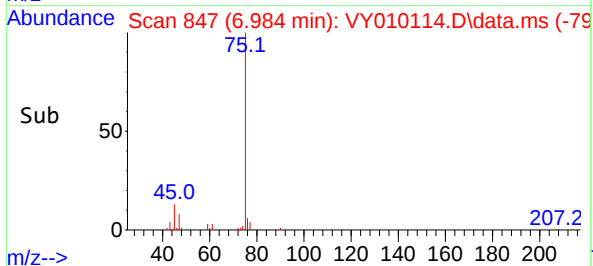
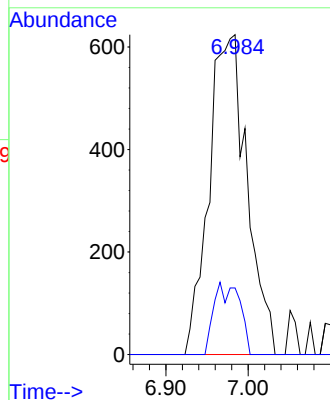
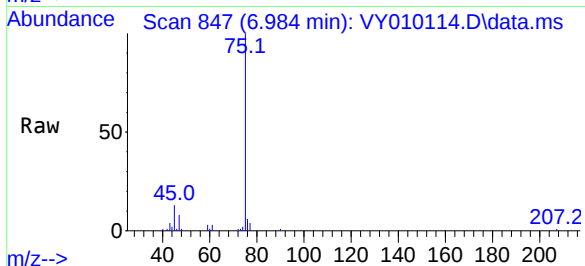
TP1-0815RE

Tgt Ion: 43 Resp: 2007

Ion Ratio Lower Upper

43 100

72 20.8 23.2 34.8#



#26

2,2-Dichloropropane

Concen: 2.510 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.000 min

Lab File: VY010114.D

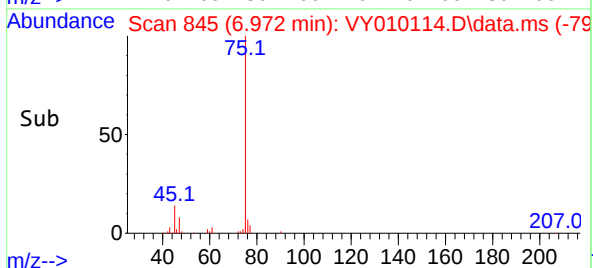
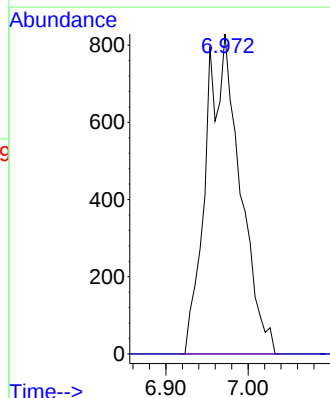
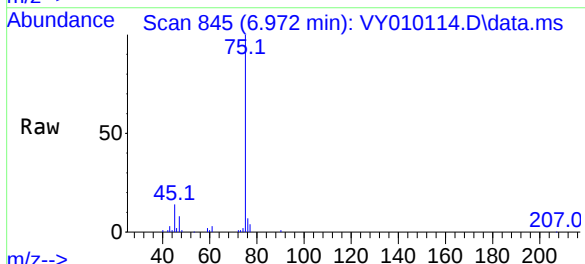
Acq: 19 Aug 2022 19:26

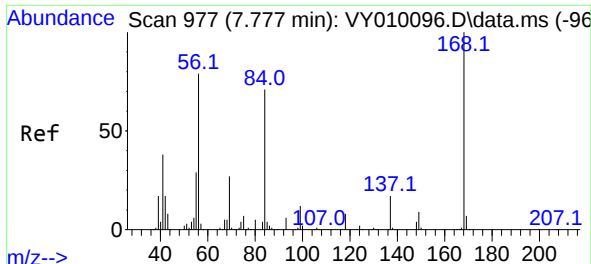
Tgt Ion: 77 Resp: 2389

Ion Ratio Lower Upper

77 100

97 0.0 12.4 37.4#

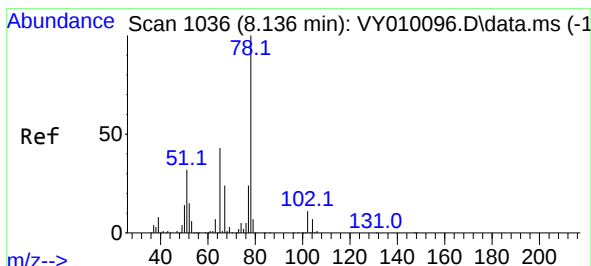
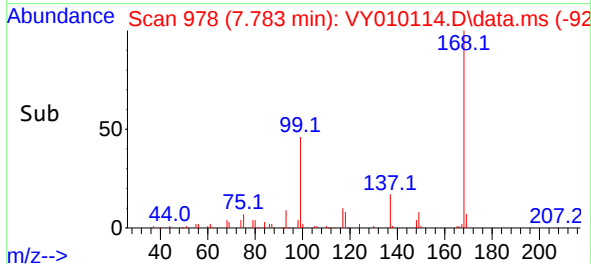
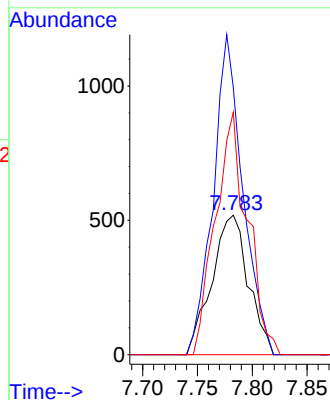
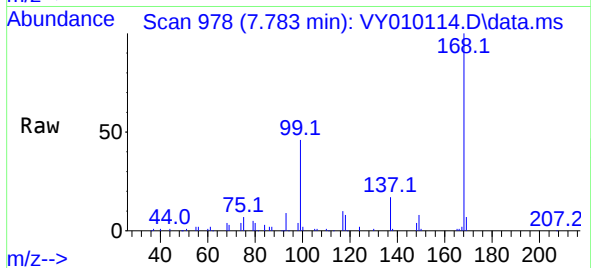




#31  
Cyclohexane  
Concen: 1.164 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

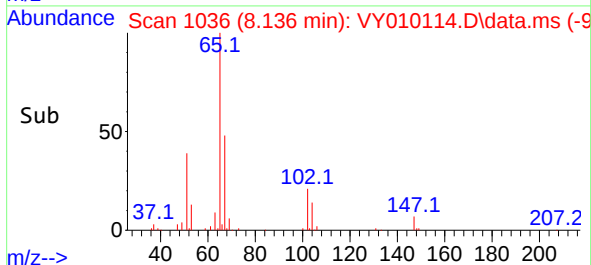
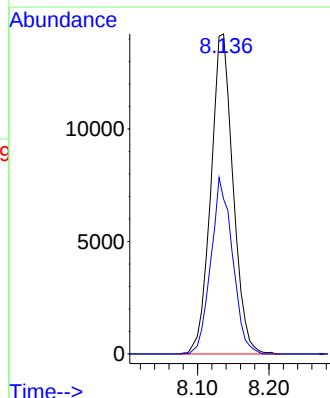
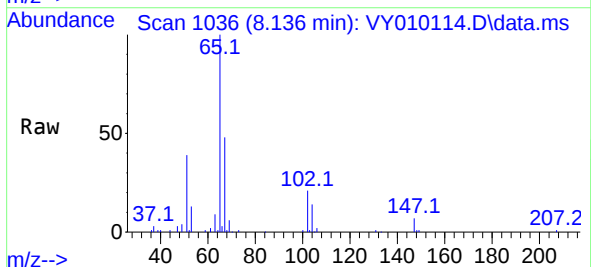
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE

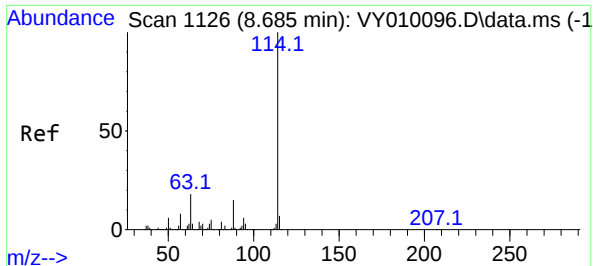
Tgt Ion: 56 Resp: 1204  
Ion Ratio Lower Upper  
56 100  
69 191.5 27.3 40.9#  
84 174.0 72.6 109.0#



#33  
1,2-Dichloroethane-d4  
Concen: 60.770 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Tgt Ion: 65 Resp: 30682  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 110.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VY010114.D

Acq: 19 Aug 2022 19:26

Instrument :

MSVOA\_Y

ClientSampleId :

TP1-0815RE

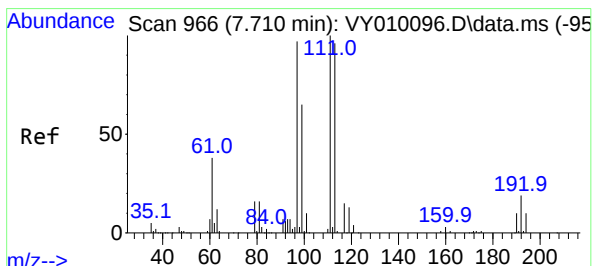
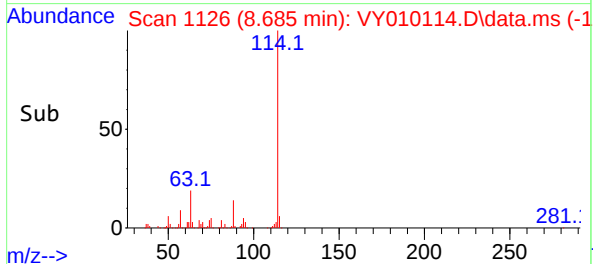
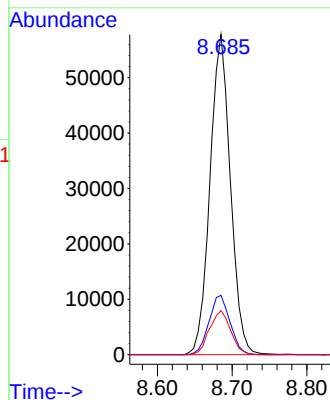
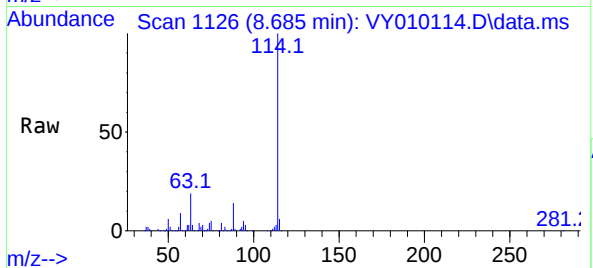
Tgt Ion:114 Resp: 109846

Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.6

88 13.8 0.0 29.6



#35

Dibromofluoromethane

Concen: 52.032 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY010114.D

Acq: 19 Aug 2022 19:26

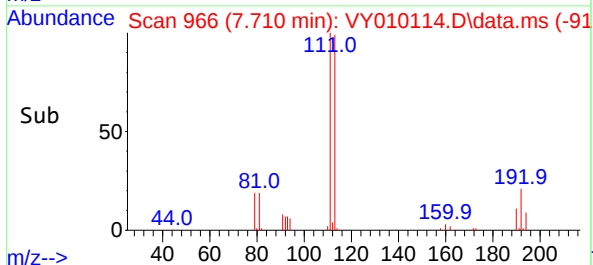
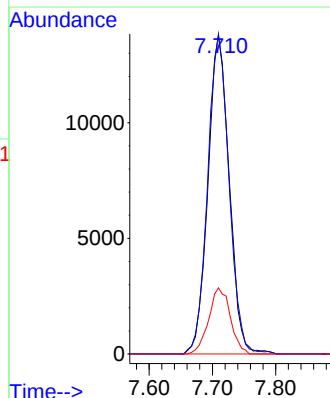
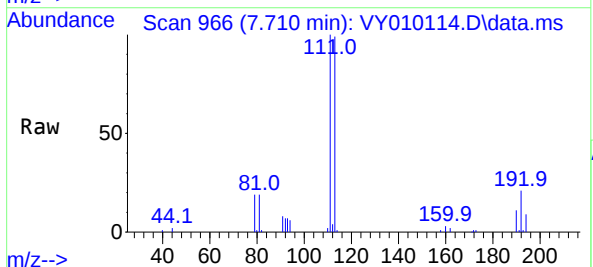
Tgt Ion:113 Resp: 32206

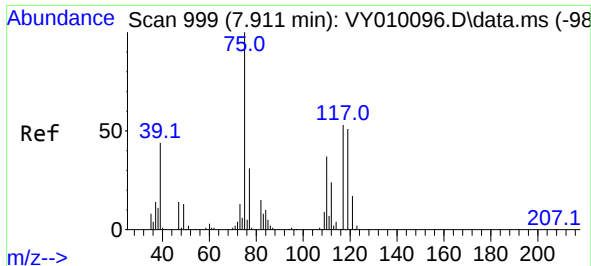
Ion Ratio Lower Upper

113 100

111 100.7 82.8 124.2

192 21.1 16.3 24.5

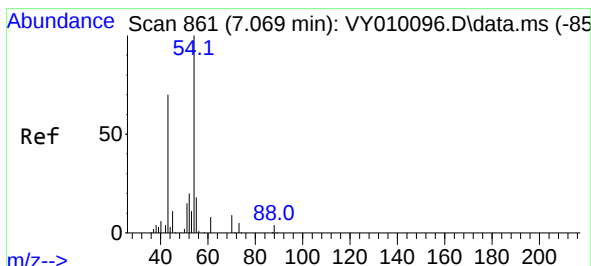
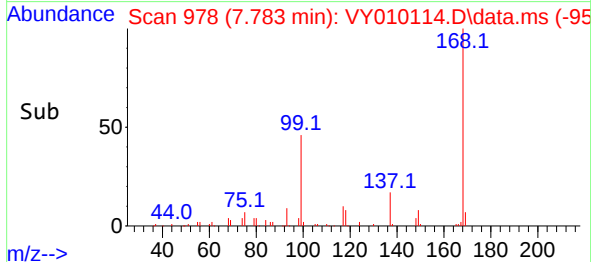
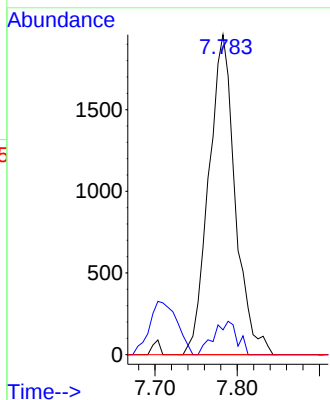
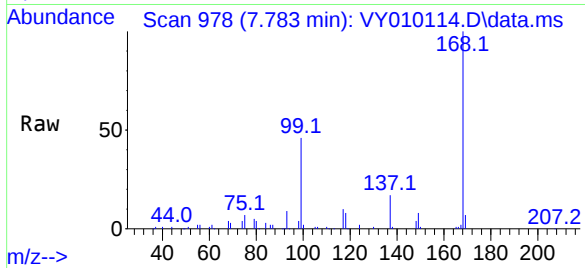




#36  
1,1-Dichloropropene  
Concen: 4.435 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

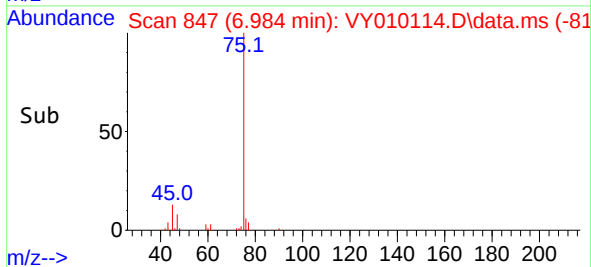
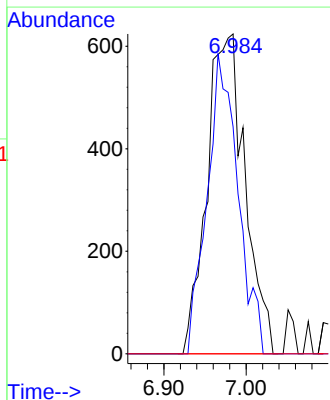
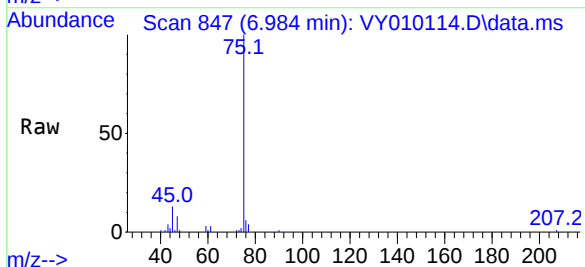
Instrument :  
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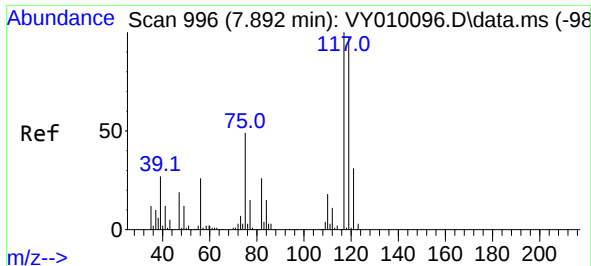
Tgt Ion: 75 Resp: 4382  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.6 56.0#  
77 0.0 24.9 37.3#



#37  
Ethyl Acetate  
Concen: 4.001 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. -0.085 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Tgt Ion: 43 Resp: 2007  
Ion Ratio Lower Upper  
43 100  
61 76.2 11.7 17.5#  
70 0.0 9.0 13.4#

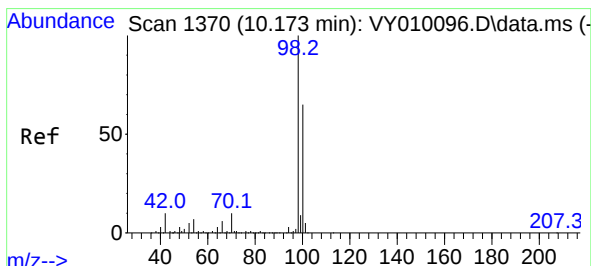
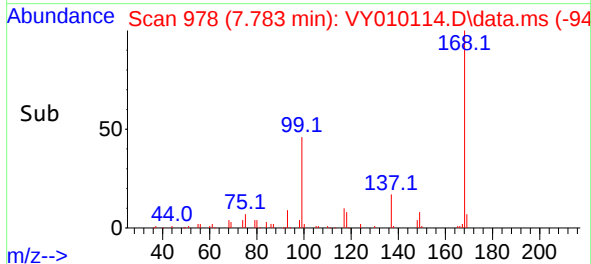
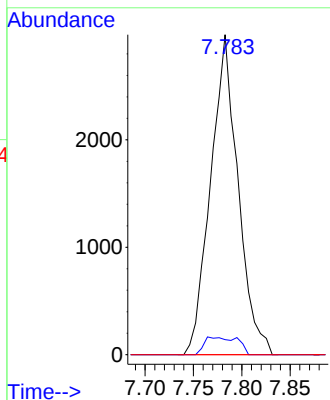
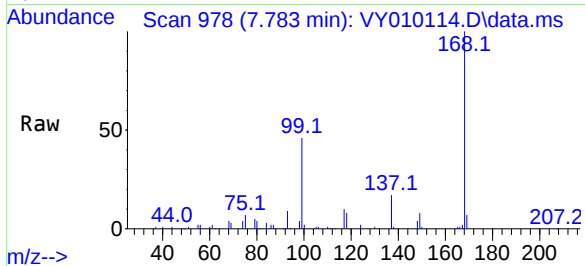




#38  
Carbon Tetrachloride  
Concen: 5.682 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.109 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

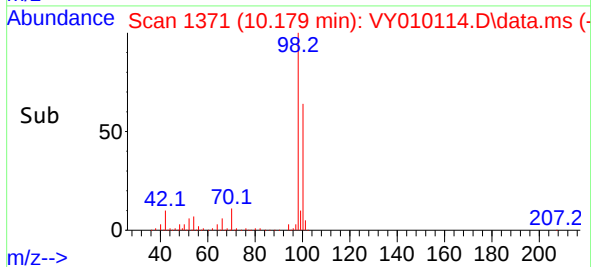
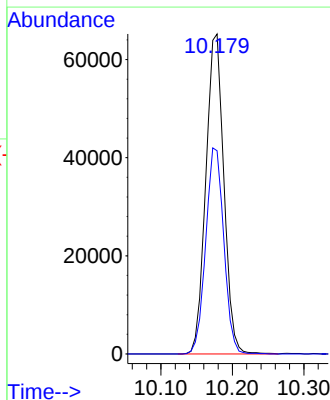
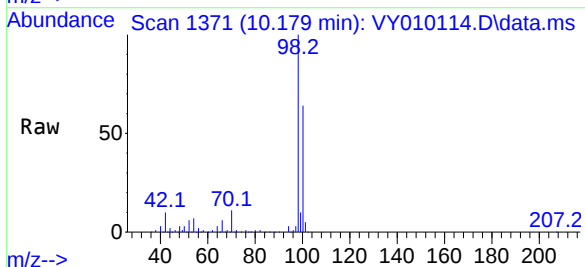
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE

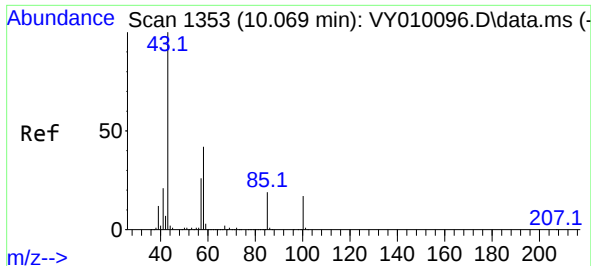
Tgt Ion:117 Resp: 5887  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.1 115.7#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 49.176 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.006 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Tgt Ion: 98 Resp: 114053  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.9 77.9

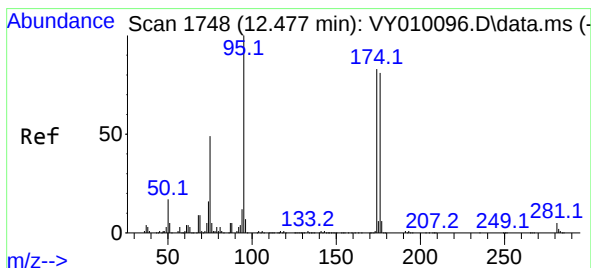
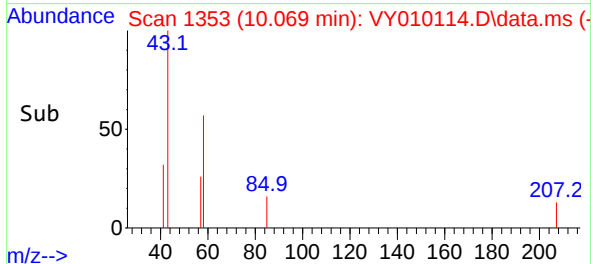
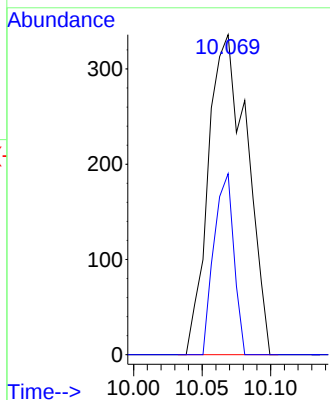
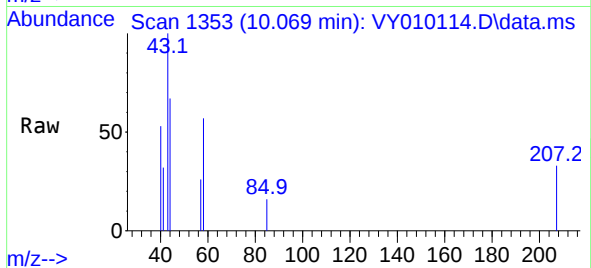




#51  
4-Methyl-2-Pentanone  
Concen: 1.345 ug/l  
RT: 10.069 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

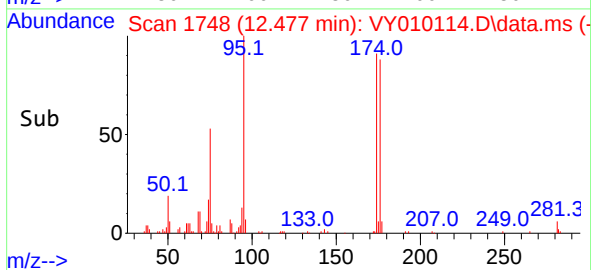
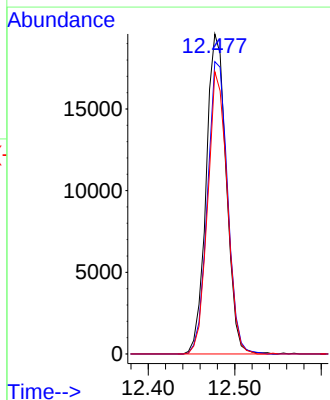
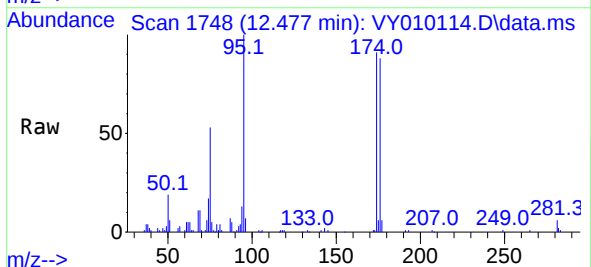
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE

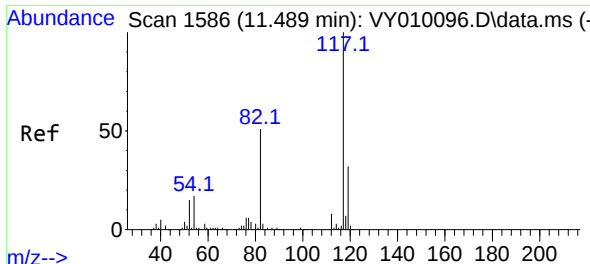
Tgt Ion: 43 Resp: 659  
Ion Ratio Lower Upper  
43 100  
58 29.0 33.3 49.9#



#62  
4-Bromofluorobenzene  
Concen: 38.067 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Tgt Ion: 95 Resp: 31545  
Ion Ratio Lower Upper  
95 100  
174 91.4 0.0 173.8  
176 85.8 0.0 167.2

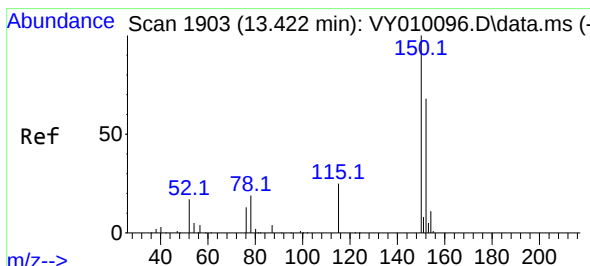
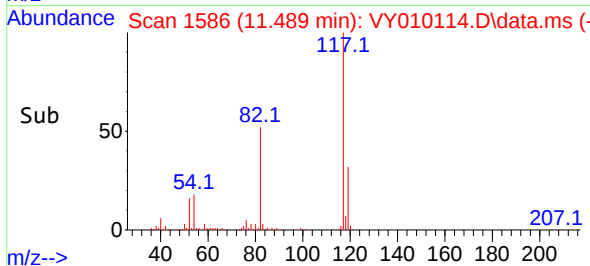
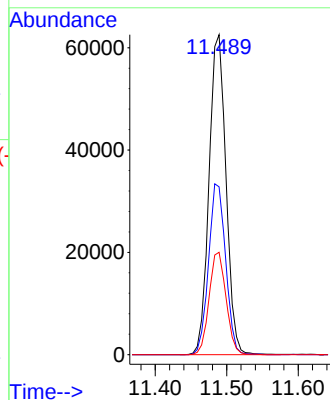
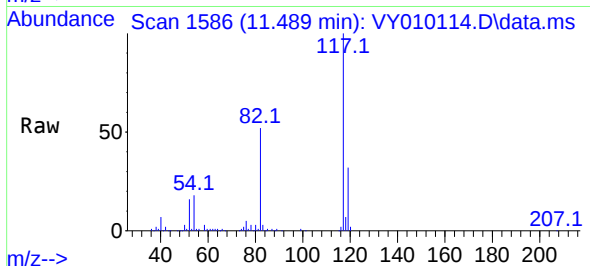




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

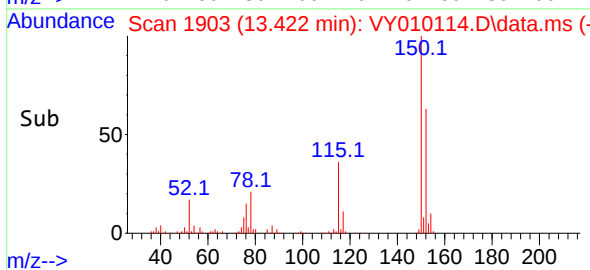
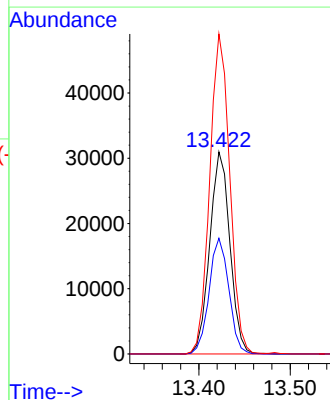
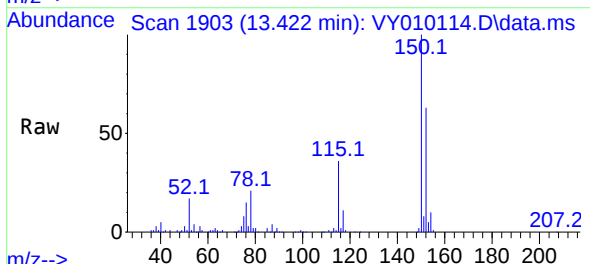
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE

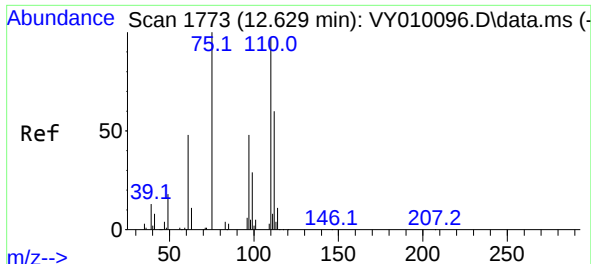
Tgt Ion:117 Resp: 103074  
Ion Ratio Lower Upper  
117 100  
82 52.5 40.6 61.0  
119 32.0 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.000 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Tgt Ion:152 Resp: 47431  
Ion Ratio Lower Upper  
152 100  
115 56.0 28.1 84.2  
150 157.0 0.0 346.2

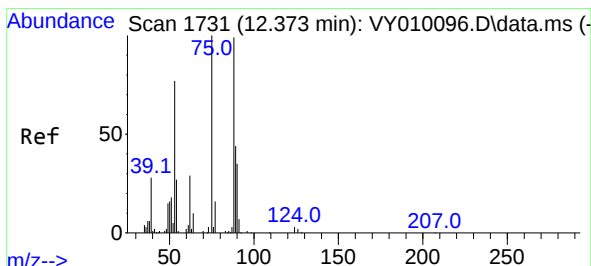
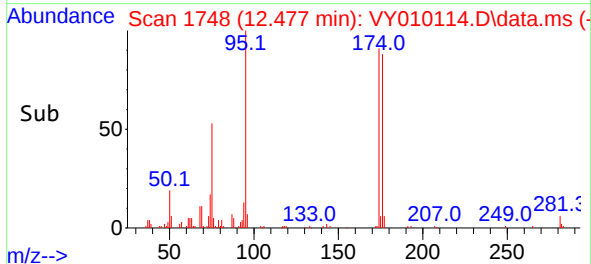
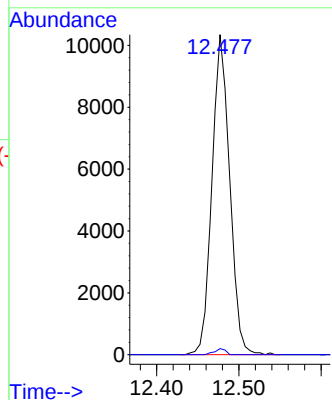
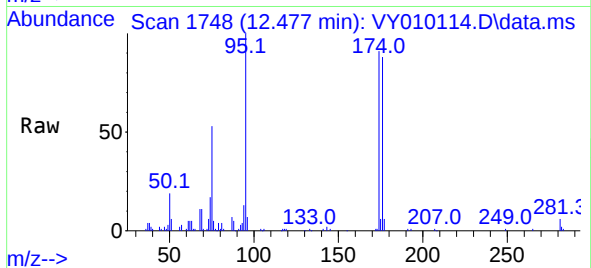




#76  
1,2,3-Trichloropropane  
Concen: 34.943 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.152 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

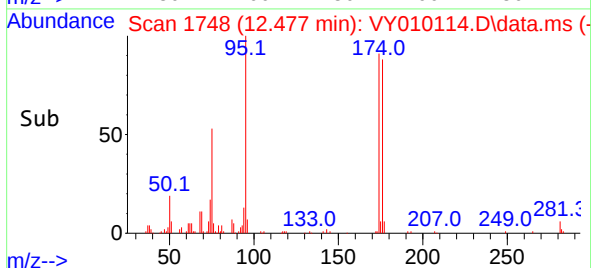
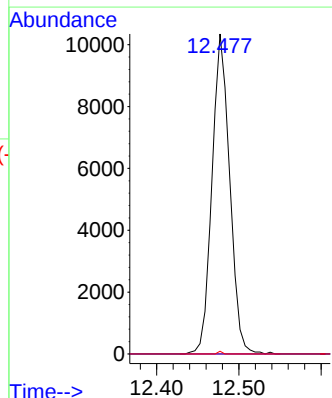
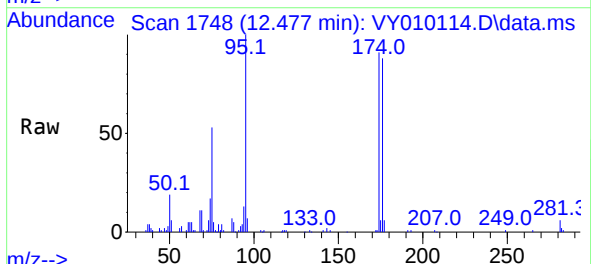
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE

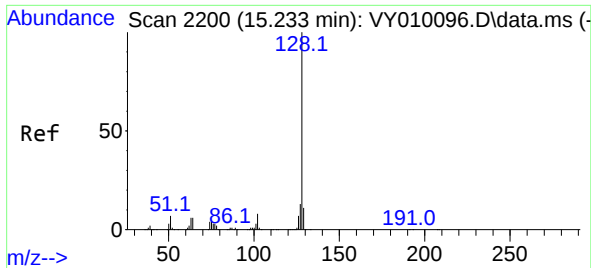
Tgt Ion: 75 Resp: 15522  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.184 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.104 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

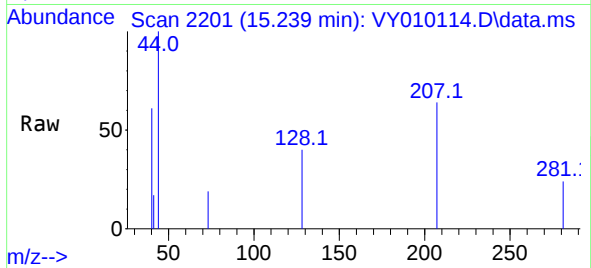
Tgt Ion: 75 Resp: 15522  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 0.2 36.8 55.2#





#95  
Naphthalene  
Concen: 3.996 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VY010114.D  
Acq: 19 Aug 2022 19:26

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-0815RE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 213   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.2  | 15.2# |
| 129      | 0.0   | 8.9   | 13.3# |

