

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042023\  
 Data File : VY013378.D  
 Acq On : 20 Apr 2023 19:07  
 Operator : KP/MD  
 Sample : 02406-07  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-15-8.5-9.0

Quant Time: Apr 21 02:16:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 13 05:55:16 2023  
 Response via : Initial Calibration

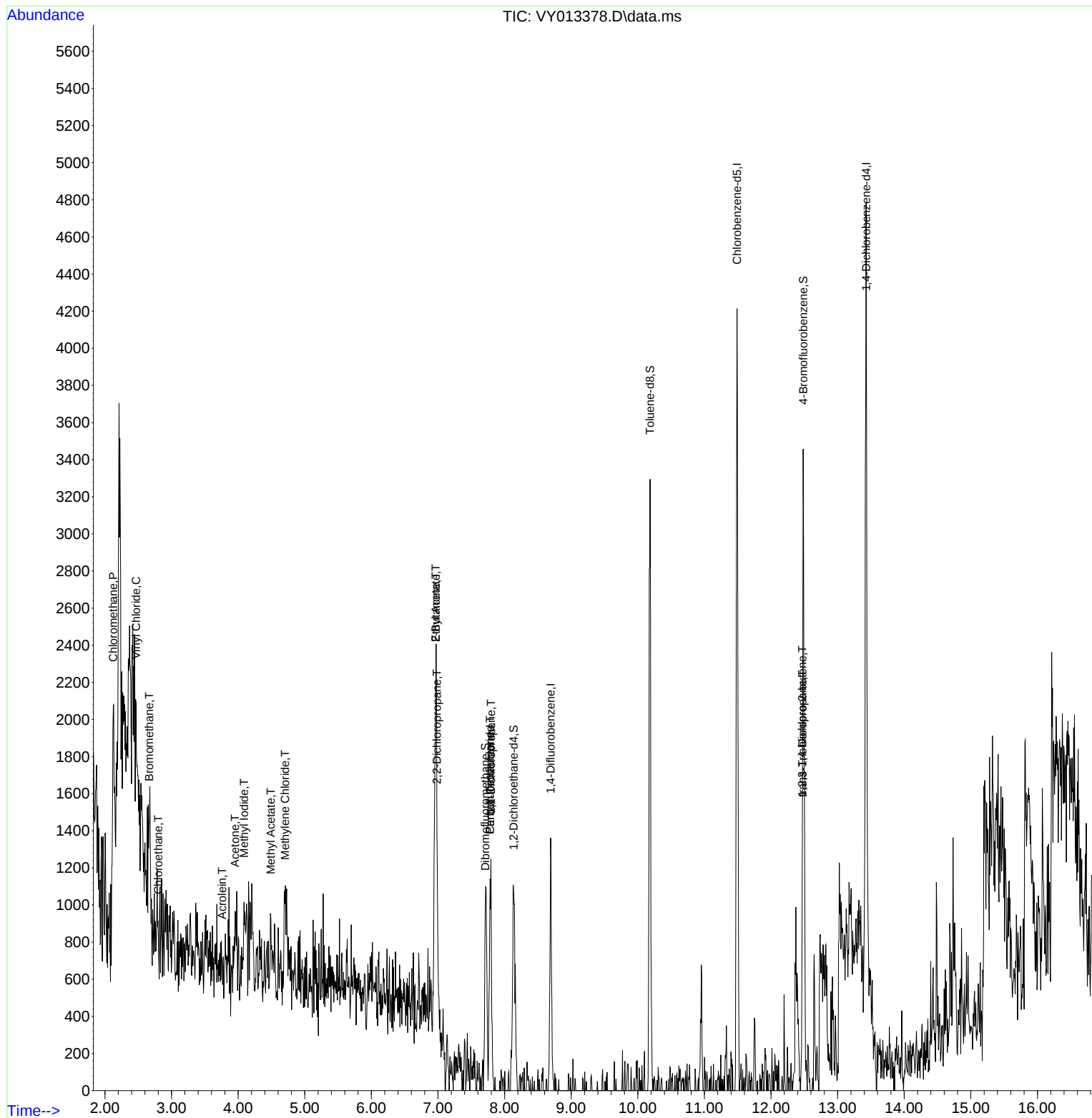
| Compound                      | R.T. QIon |       | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|-------------|----------|
| -----                         |           |       |          |           |             |          |
| Internal Standards            |           |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.783     | 168   | 1554     | 50.000    | ug/l        | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 1497     | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 2721     | 50.000    | ug/l        | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 1301     | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |           |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.136     | 65    | 1491     | 79.837    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 159.680%  |          |
| 35) Dibromofluoromethane      | 7.710     | 113   | 861      | 88.841    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 177.680%# |          |
| 50) Toluene-d8                | 10.185    | 98    | 2412     | 66.864    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 133.720%  |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 1095     | 93.424    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 186.840%# |          |
| Target Compounds              |           |       |          |           |             |          |
|                               |           |       |          |           | Qvalue      |          |
| 3) Chloromethane              | 2.125     | 50    | 420      | 23.970    | ug/l        | 96       |
| 4) Vinyl Chloride             | 2.467     | 62    | 45       | 2.709     | ug/l #      | 43       |
| 5) Bromomethane               | 2.662     | 94    | 206      | 16.170    | ug/l        | 95       |
| 6) Chloroethane               | 2.802     | 64    | 345      | 30.794    | ug/l #      | 43       |
| 10) Methyl Iodide             | 4.088     | 142   | 420      | 22.535    | ug/l #      | 56       |
| 11) Tert butyl alcohol        | 5.143     | 59    | 19       | Below Cal | #           | 74       |
| 13) Acrolein                  | 3.759     | 56    | 31       | 13.512    | ug/l #      | 14       |
| 16) Acetone                   | 3.954     | 43    | 477      | 74.286    | ug/l #      | 58       |
| 18) Methyl Acetate            | 4.491     | 43    | 61       | 2.937     | ug/l #      | 54       |
| 20) Methylene Chloride        | 4.704     | 84    | 189      | 7.513     | ug/l #      | 63       |
| 25) 2-Butanone                | 6.966     | 43    | 19       | 2.311     | ug/l #      | 49       |
| 26) 2,2-Dichloropropane       | 6.984     | 77    | 45       | 1.631     | ug/l #      | 52       |
| 36) 1,1-Dichloropropene       | 7.795     | 75    | 29       | 1.975     | ug/l #      | 41       |
| 37) Ethyl Acetate             | 6.966     | 43    | 19       | 1.605     | ug/l #      | 1        |
| 38) Carbon Tetrachloride      | 7.783     | 117   | 41       | 2.525     | ug/l #      | 12       |
| 76) 1,2,3-Trichloropropane    | 12.471    | 75    | 558      | 34.420    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.471    | 75    | 558      | 71.439    | ug/l #      | 13       |
| -----                         |           |       |          |           |             |          |

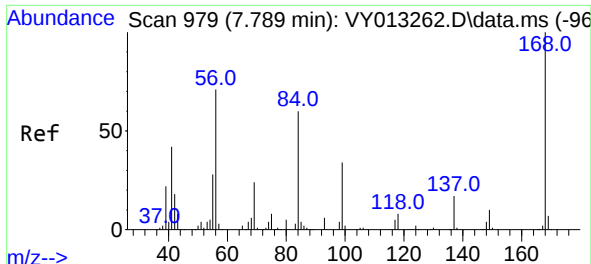
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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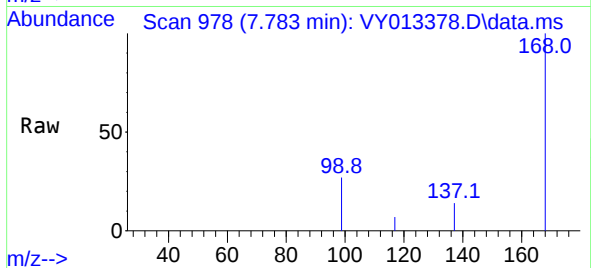
Quant Time: Apr 21 02:16:26 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 13 05:55:16 2023  
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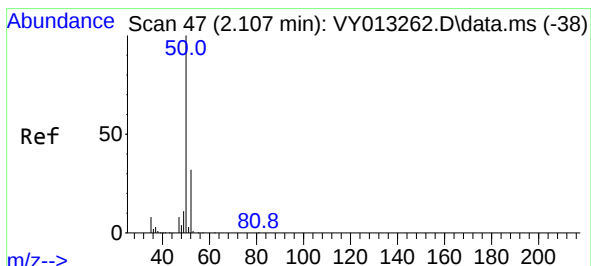
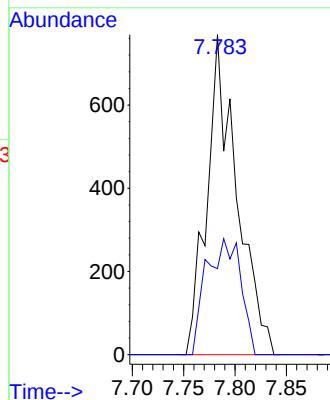
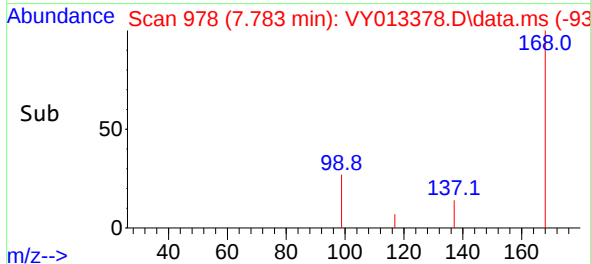


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-15-8.5-9.0

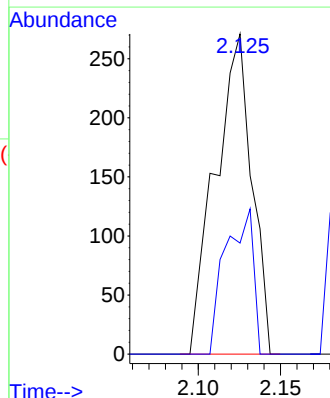
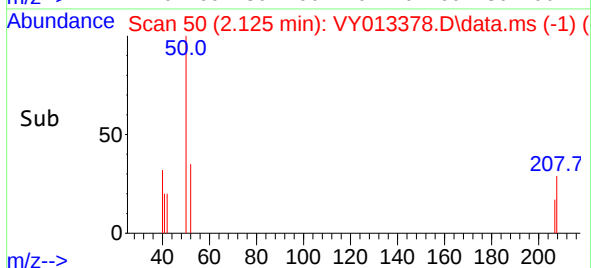
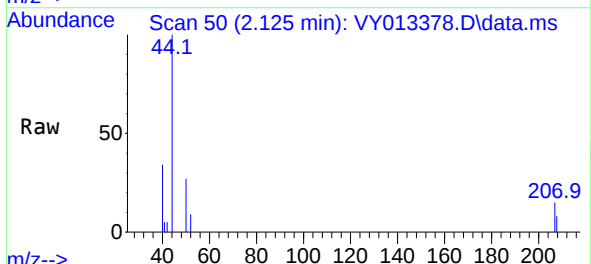


Tgt Ion:168 Resp: 1554  
Ion Ratio Lower Upper  
168 100  
99 26.9 41.7 62.5#

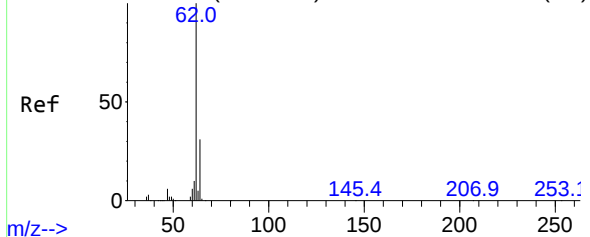


#3  
Chloromethane  
Concen: 23.970 ug/l  
RT: 2.125 min Scan# 50  
Delta R.T. 0.018 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

Tgt Ion: 50 Resp: 420  
Ion Ratio Lower Upper  
50 100  
52 34.7 26.0 39.0



Abundance Scan 70 (2.247 min): VY013262.D\data.ms (-63)



#4

Vinyl Chloride

Concen: 2.709 ug/l

RT: 2.467 min Scan# 106

Delta R.T. 0.219 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

Instrument :

MSVOA\_Y

ClientSampleId :

SB-15-8.5-9.0

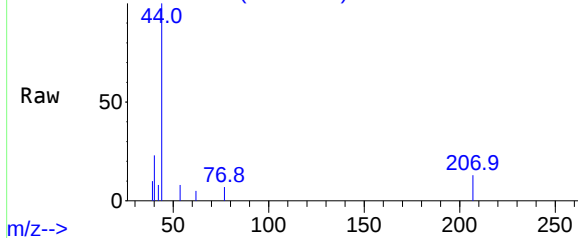
Tgt Ion: 62 Resp: 45

Ion Ratio Lower Upper

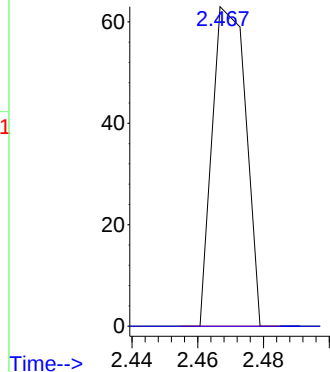
62 100

64 0.0 25.6 38.4#

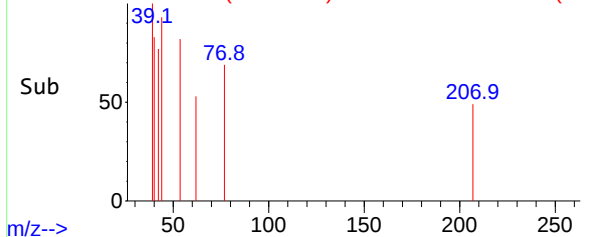
Abundance Scan 106 (2.467 min): VY013378.D\data.ms



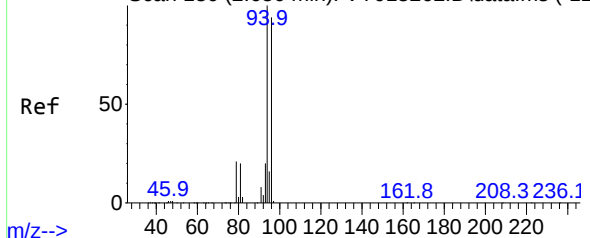
Abundance



Abundance Scan 106 (2.467 min): VY013378.D\data.ms (-21)



Abundance Scan 136 (2.650 min): VY013262.D\data.ms (-12)



#5

Bromomethane

Concen: 16.170 ug/l

RT: 2.662 min Scan# 138

Delta R.T. 0.012 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

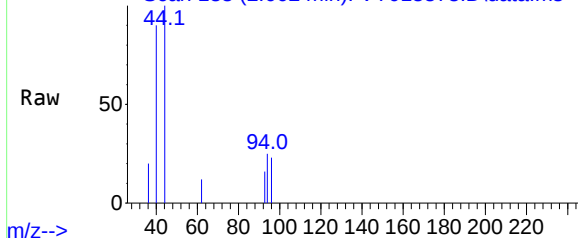
Tgt Ion: 94 Resp: 206

Ion Ratio Lower Upper

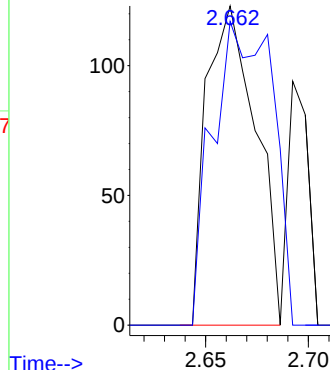
94 100

96 95.1 80.3 120.5

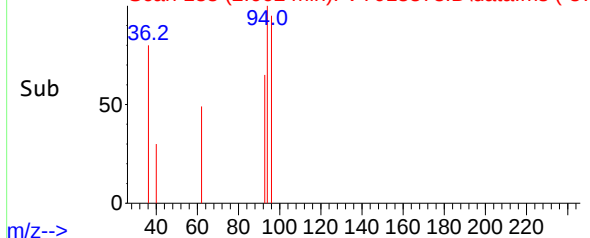
Abundance Scan 138 (2.662 min): VY013378.D\data.ms

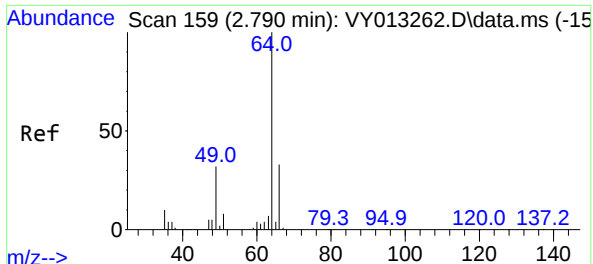


Abundance



Abundance Scan 138 (2.662 min): VY013378.D\data.ms (-87)

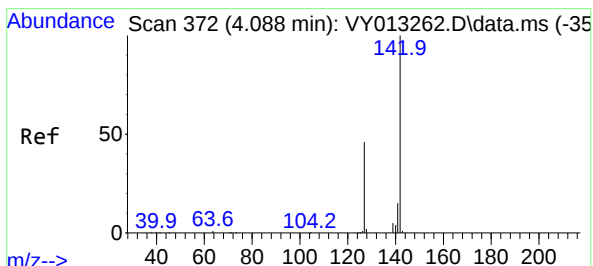
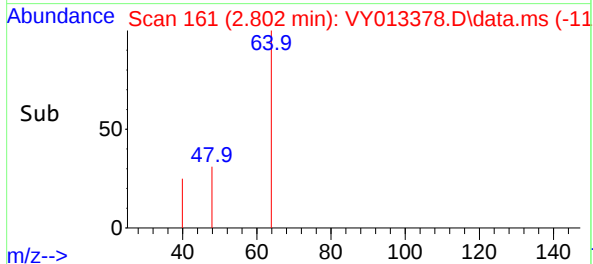
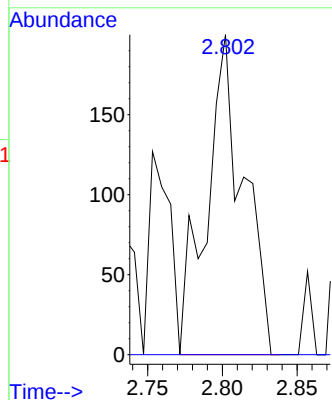
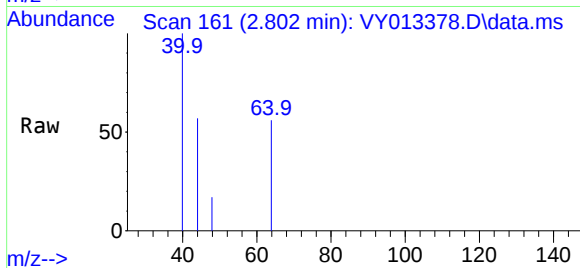




#6  
Chloroethane  
Concen: 30.794 ug/l  
RT: 2.802 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

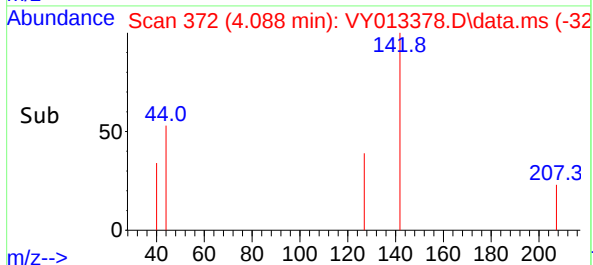
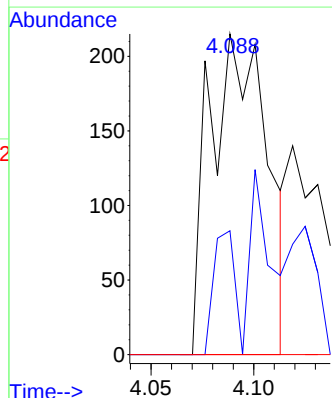
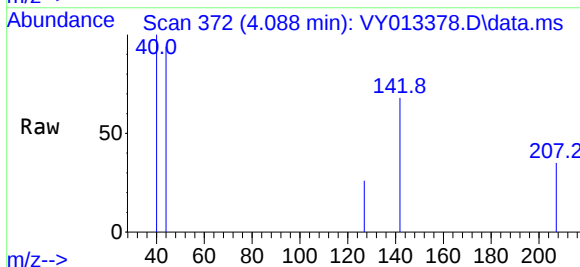
Instrument :  
MSVOA\_Y  
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SB-15-8.5-9.0

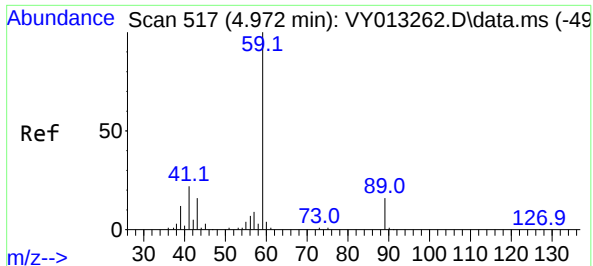
Tgt Ion: 64 Resp: 345  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.7 38.5#



#10  
Methyl Iodide  
Concen: 22.535 ug/l  
RT: 4.088 min Scan# 372  
Delta R.T. 0.000 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

Tgt Ion: 142 Resp: 420  
Ion Ratio Lower Upper  
142 100  
127 14.0 35.4 53.2#  
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.143 min Scan# 54

Delta R.T. 0.171 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

Instrument :

MSVOA\_Y

ClientSampleId :

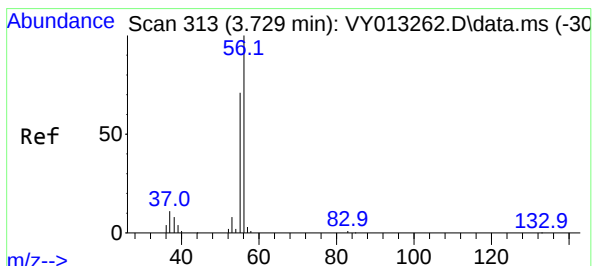
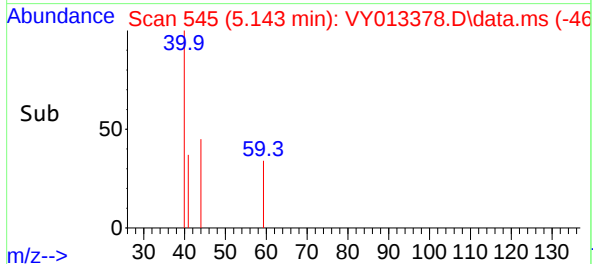
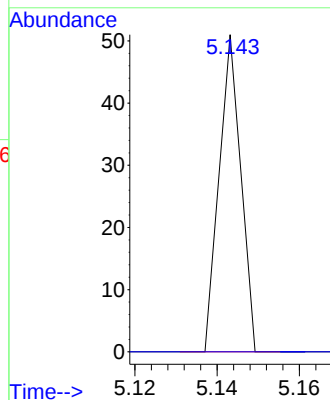
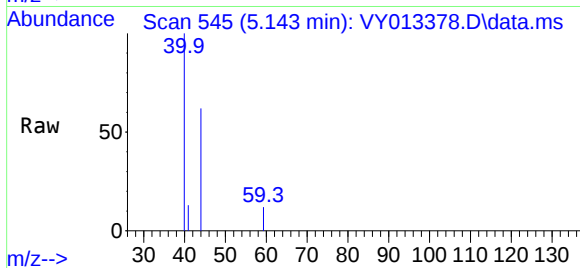
SB-15-8.5-9.0

Tgt Ion: 59 Resp: 19

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#13

Acrolein

Concen: 13.512 ug/l

RT: 3.759 min Scan# 318

Delta R.T. 0.030 min

Lab File: VY013378.D

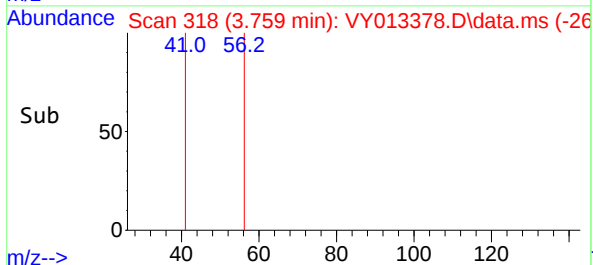
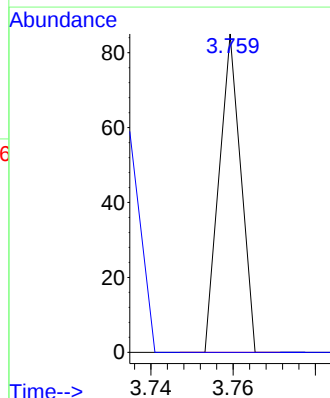
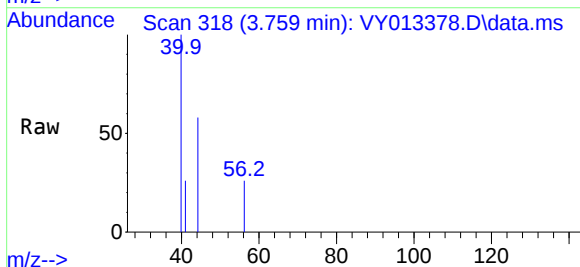
Acq: 20 Apr 2023 19:07

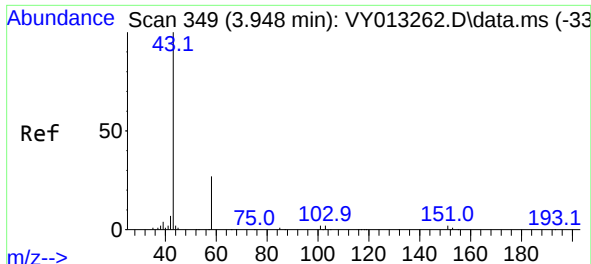
Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 0.0 56.8 85.2#

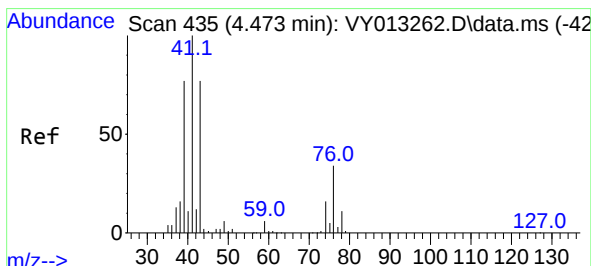
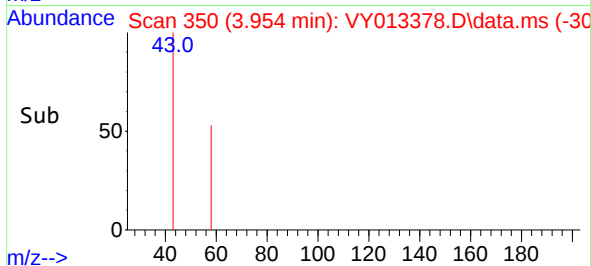
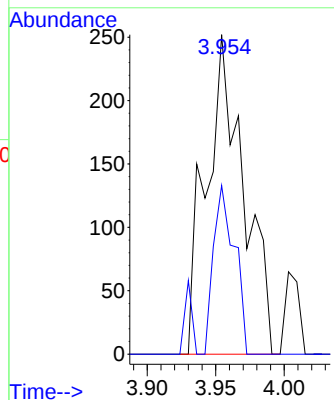
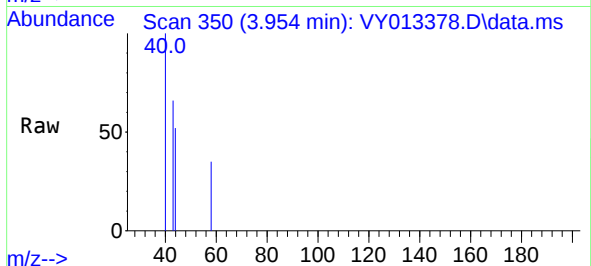




#16  
Acetone  
Concen: 74.286 ug/l  
RT: 3.954 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

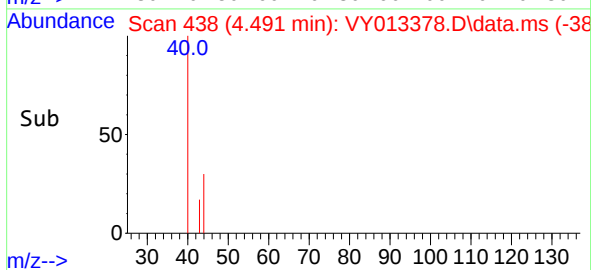
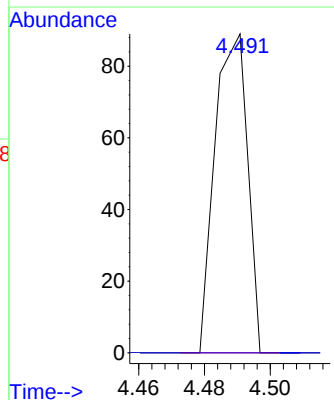
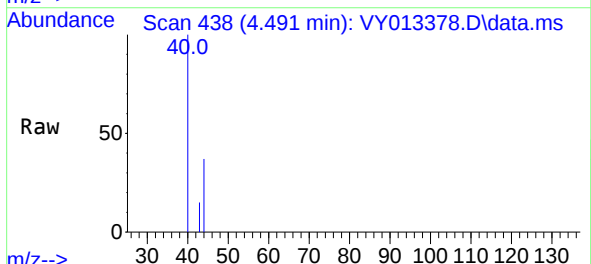
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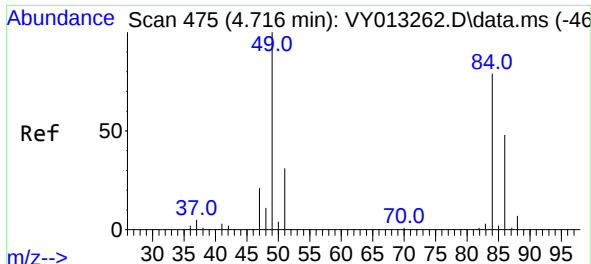
Tgt Ion: 43 Resp: 477  
Ion Ratio Lower Upper  
43 100  
58 52.8 24.2 36.2#



#18  
Methyl Acetate  
Concen: 2.937 ug/l  
RT: 4.491 min Scan# 438  
Delta R.T. 0.018 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

Tgt Ion: 43 Resp: 61  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.4 26.0#

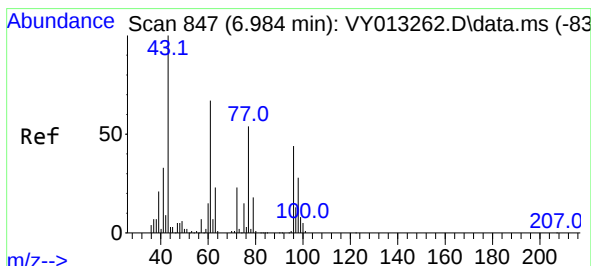
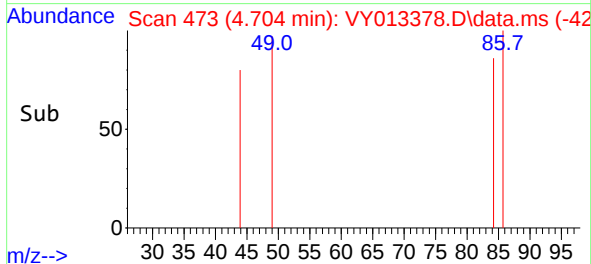
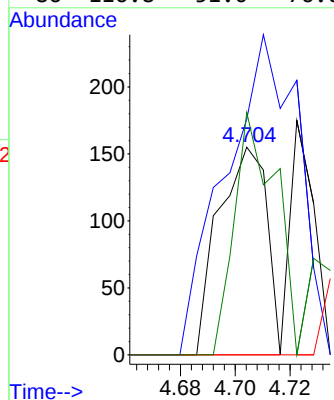
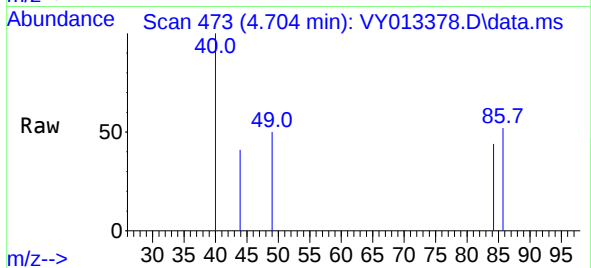




#20  
Methylene Chloride  
Concen: 7.513 ug/l  
RT: 4.704 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

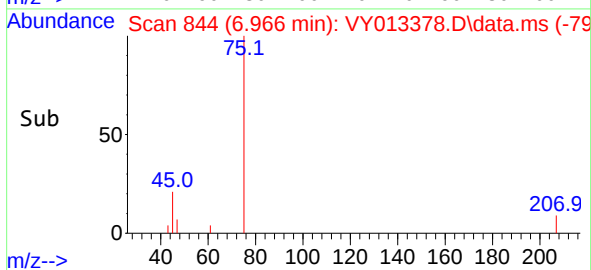
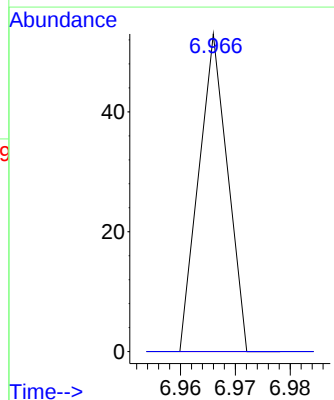
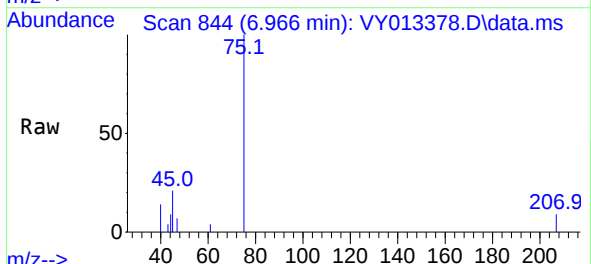
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-15-8.5-9.0

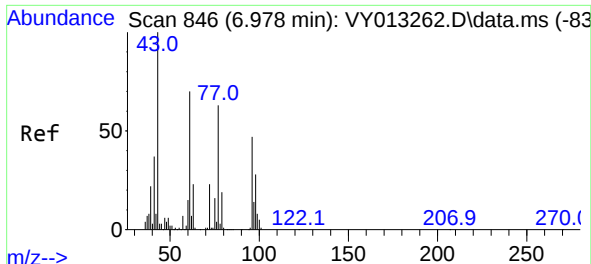
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 189   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 113.5 | 102.6 | 154.0 |
| 51       | 0.0   | 31.9  | 47.9# |
| 86       | 116.8 | 51.0  | 76.6# |



#25  
2-Butanone  
Concen: 2.311 ug/l  
RT: 6.966 min Scan# 844  
Delta R.T. -0.018 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 19    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 21.0  | 31.4# |





#26

2,2-Dichloropropane

Concen: 1.631 ug/l

RT: 6.984 min Scan# 846

Delta R.T. 0.006 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

Instrument :

MSVOA\_Y

ClientSampleId :

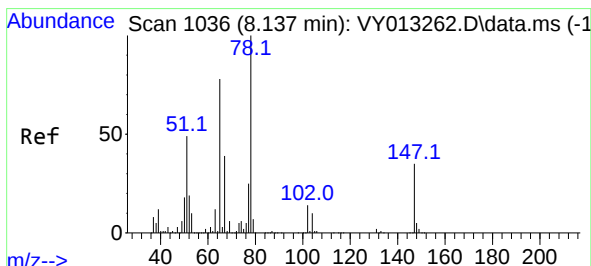
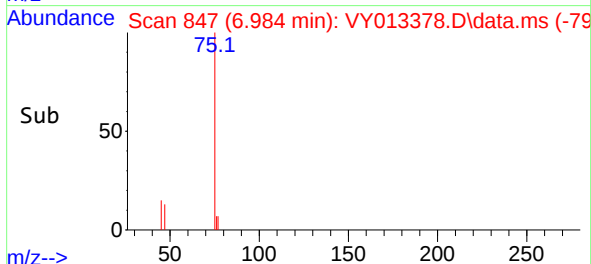
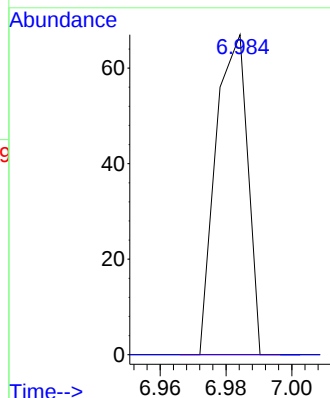
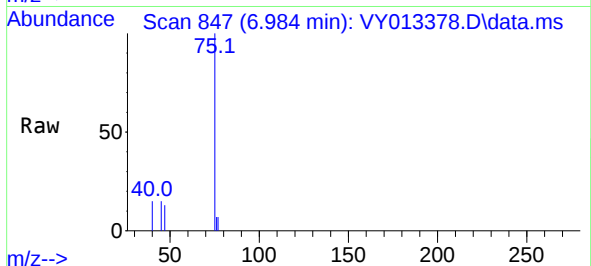
SB-15-8.5-9.0

Tgt Ion: 77 Resp: 45

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



#33

1,2-Dichloroethane-d4

Concen: 79.837 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VY013378.D

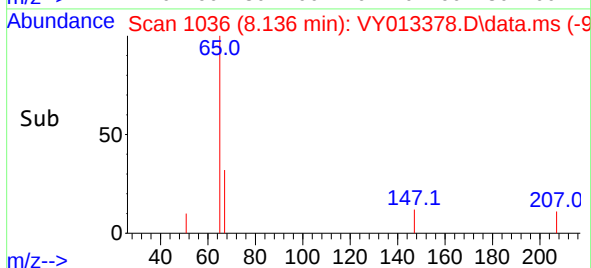
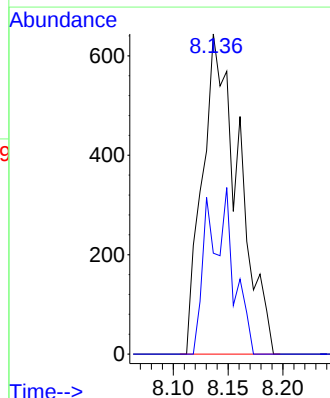
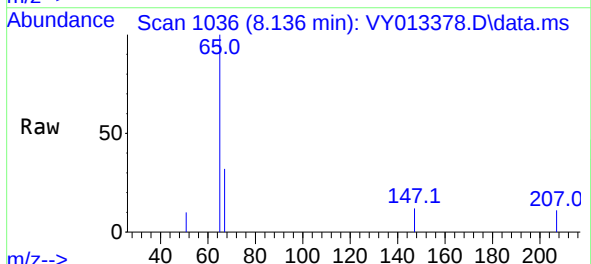
Acq: 20 Apr 2023 19:07

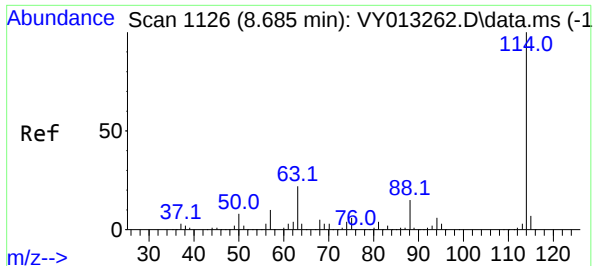
Tgt Ion: 65 Resp: 1491

Ion Ratio Lower Upper

65 100

67 20.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

Instrument :

MSVOA\_Y

ClientSampleId :

SB-15-8.5-9.0

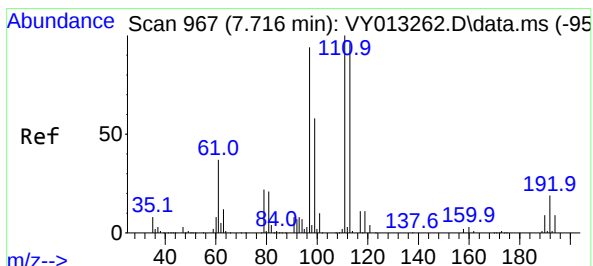
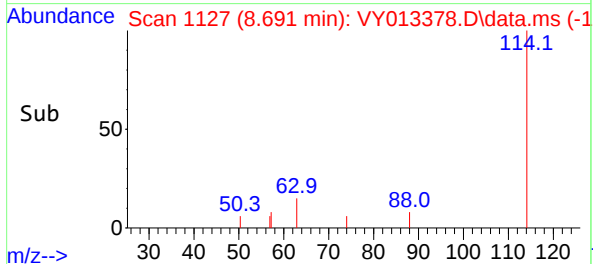
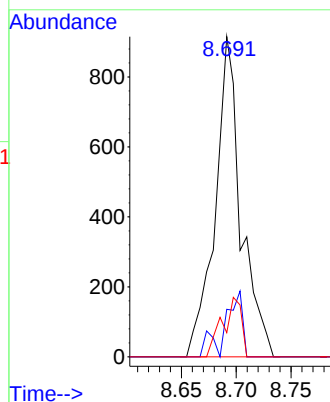
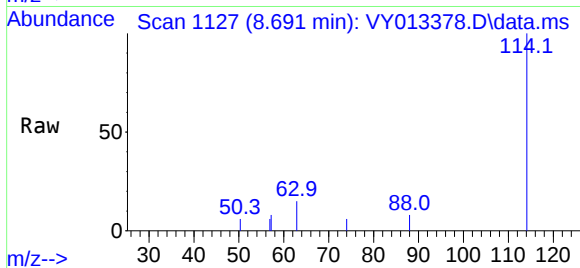
Tgt Ion:114 Resp: 1497

Ion Ratio Lower Upper

114 100

63 14.9 0.0 37.4

88 7.5 0.0 28.6



#35

Dibromofluoromethane

Concen: 88.841 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

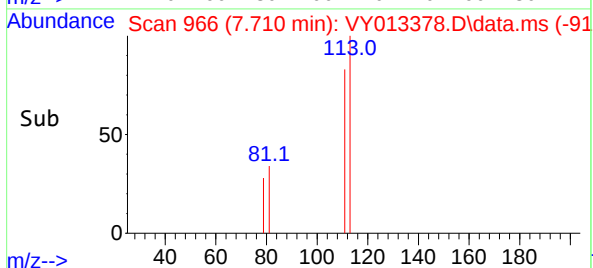
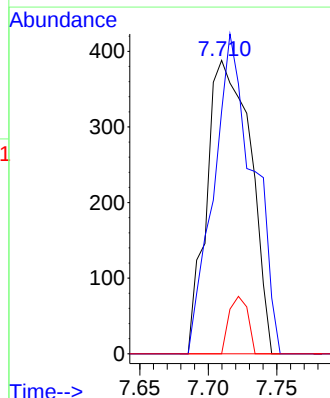
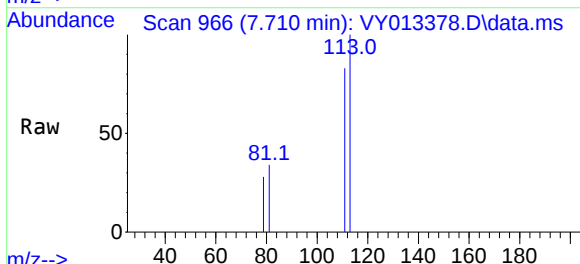
Tgt Ion:113 Resp: 861

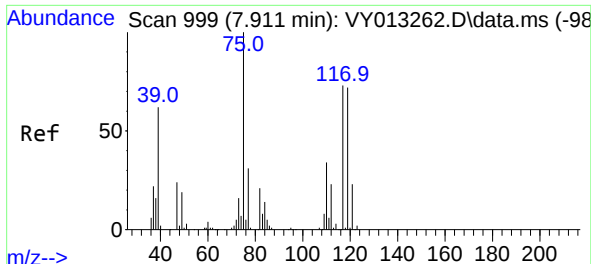
Ion Ratio Lower Upper

113 100

111 99.1 82.2 123.2

192 8.4 16.8 25.2#





#36

1,1-Dichloropropene

Concen: 1.975 ug/l

RT: 7.795 min Scan# 91

Delta R.T. -0.116 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

Instrument :

MSVOA\_Y

ClientSampleId :

SB-15-8.5-9.0

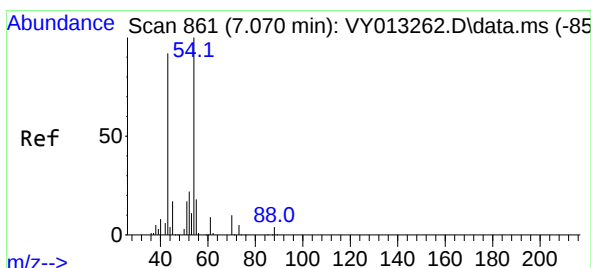
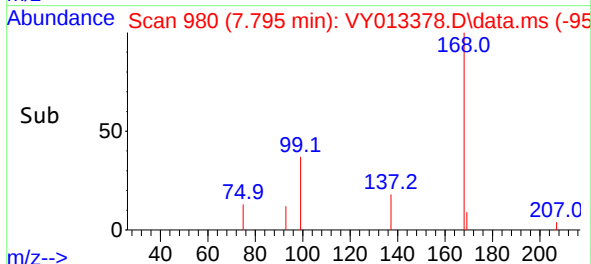
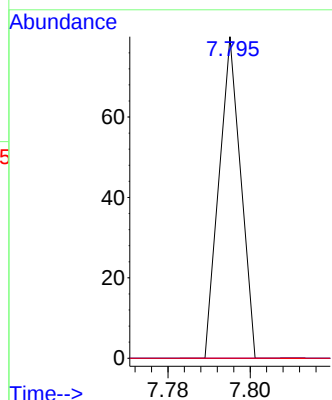
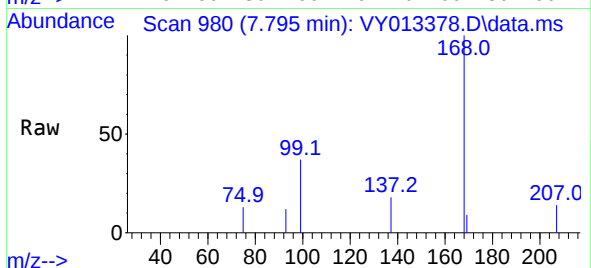
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.605 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.104 min

Lab File: VY013378.D

Acq: 20 Apr 2023 19:07

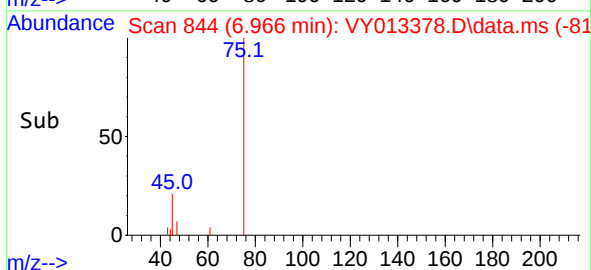
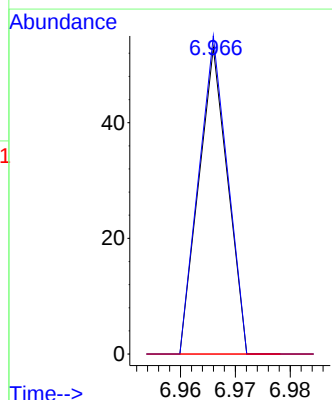
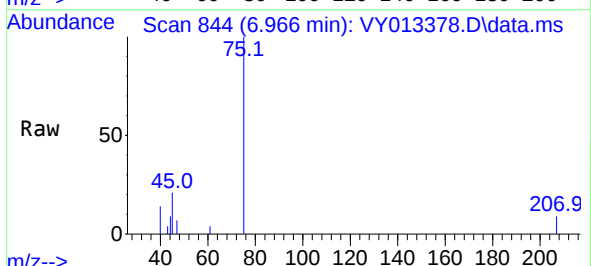
Tgt Ion: 43 Resp: 19

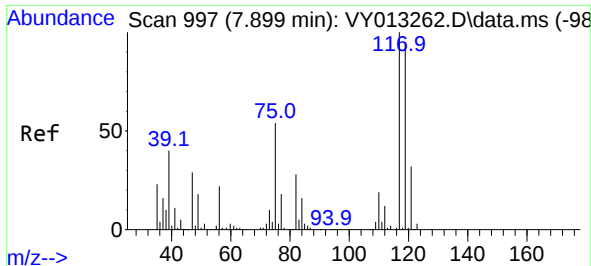
Ion Ratio Lower Upper

43 100

61 105.3 10.7 16.1#

70 0.0 7.8 11.8#

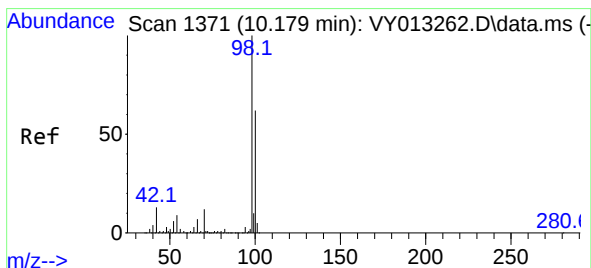
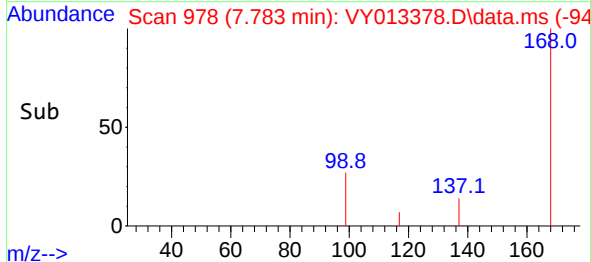
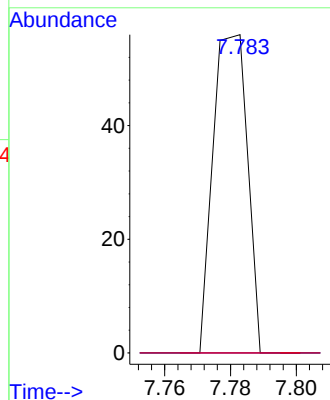
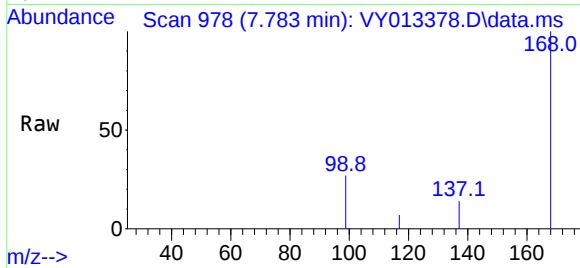




#38  
Carbon Tetrachloride  
Concen: 2.525 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

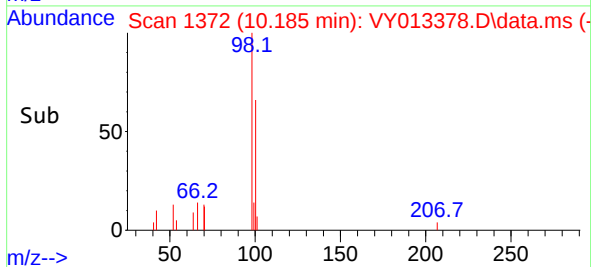
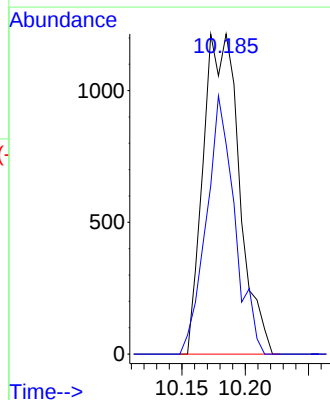
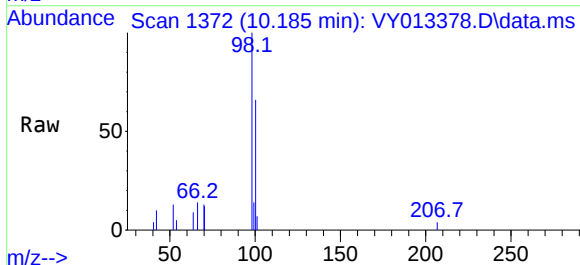
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-15-8.5-9.0

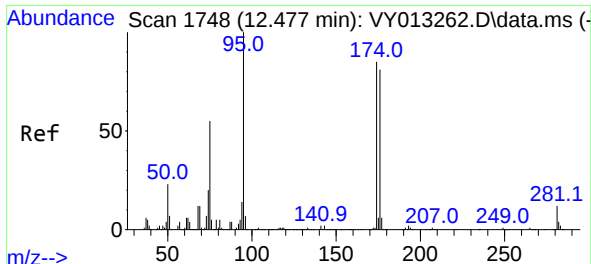
Tgt Ion:117 Resp: 41  
Ion Ratio Lower Upper  
117 100  
119 0.0 77.2 115.8#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 66.864 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. 0.006 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

Tgt Ion: 98 Resp: 2412  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.9 76.3

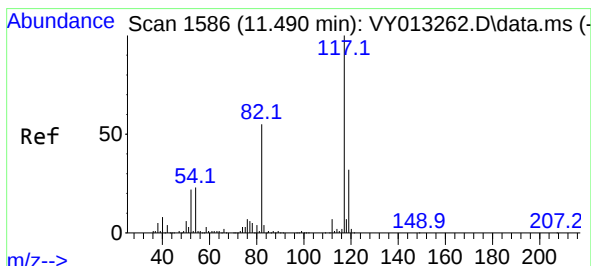
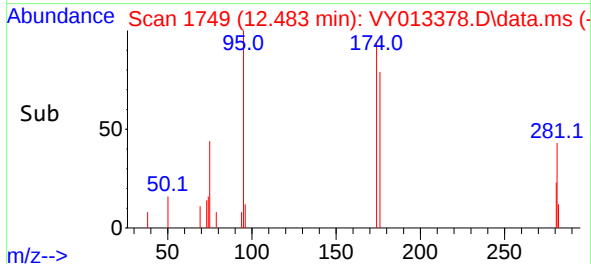
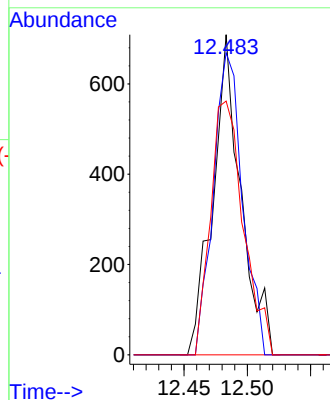
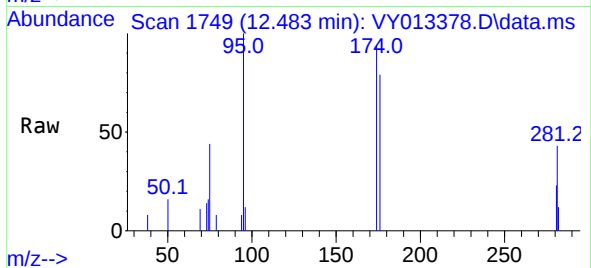




#62  
4-Bromofluorobenzene  
Concen: 93.424 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

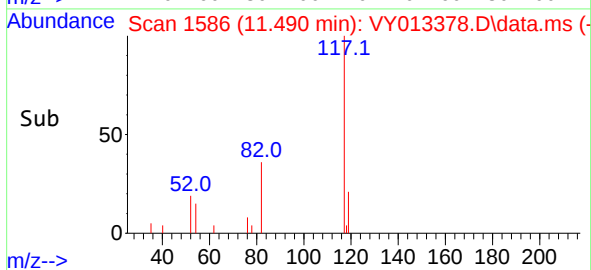
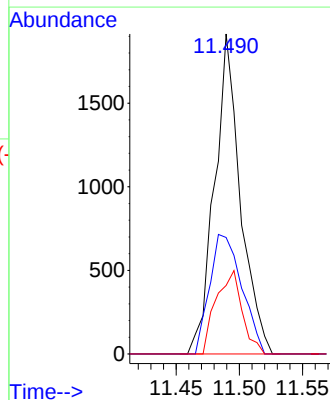
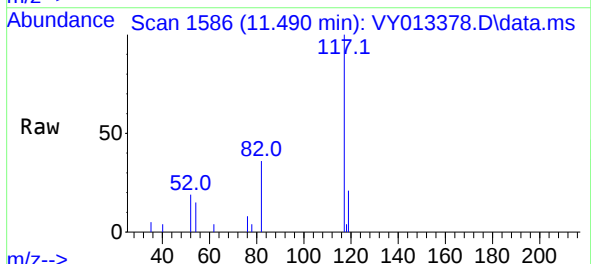
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-15-8.5-9.0

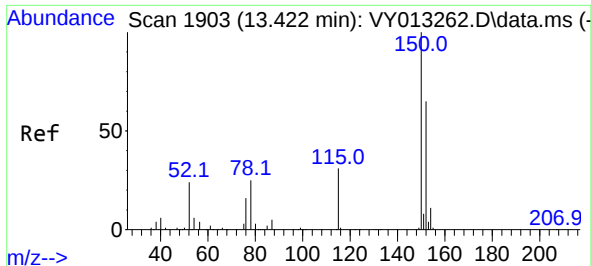
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 95 | Resp: | 1095      |
| Ion Ratio   | Lower | Upper     |
| 95          | 100   |           |
| 174         | 97.7  | 0.0 176.6 |
| 176         | 93.0  | 0.0 170.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

|              |       |            |
|--------------|-------|------------|
| Tgt Ion: 117 | Resp: | 2721       |
| Ion Ratio    | Lower | Upper      |
| 117          | 100   |            |
| 82           | 36.4  | 45.4 68.0# |
| 119          | 21.4  | 25.6 38.4# |

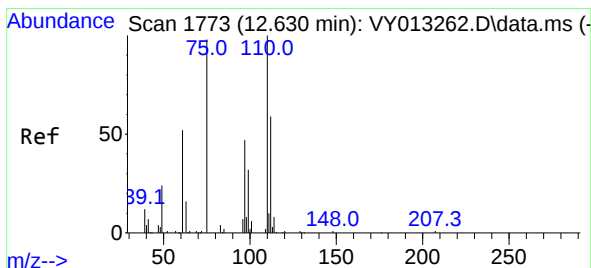
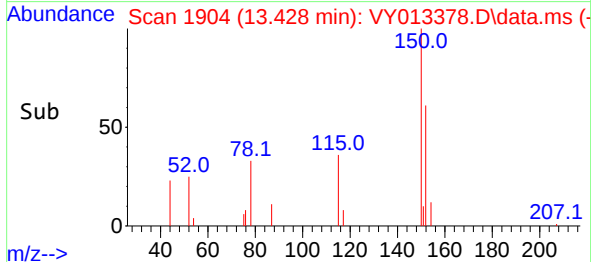
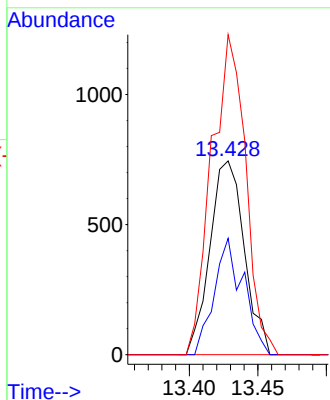
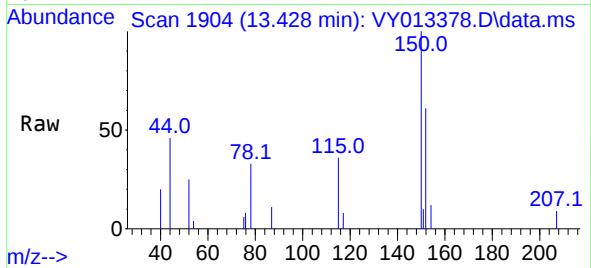




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

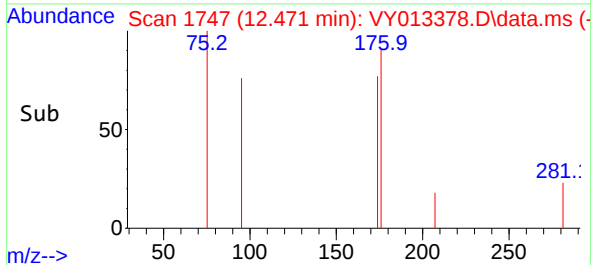
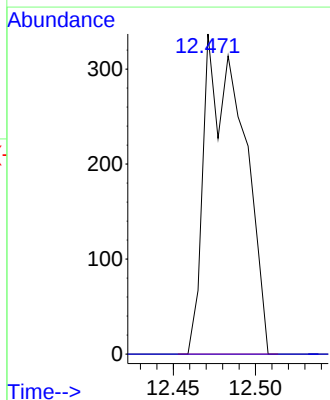
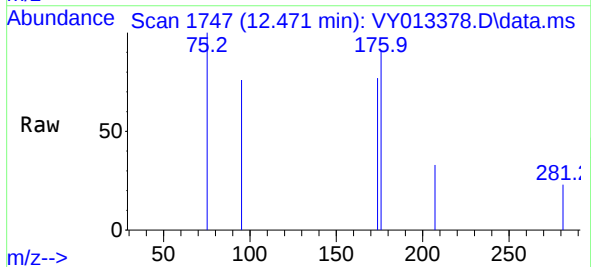
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-15-8.5-9.0

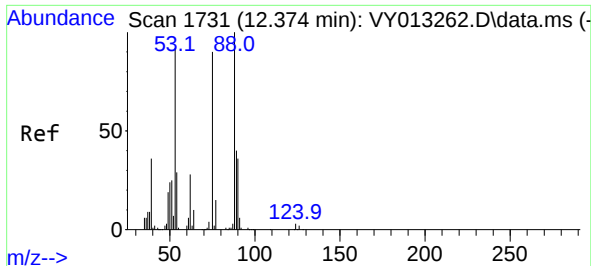
Tgt Ion:152 Resp: 1301  
Ion Ratio Lower Upper  
152 100  
115 50.9 27.1 81.3  
150 163.5 0.0 347.8



#76  
1,2,3-Trichloropropane  
Concen: 34.420 ug/l  
RT: 12.471 min Scan# 1747  
Delta R.T. -0.159 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

Tgt Ion: 75 Resp: 558  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.439 ug/l  
RT: 12.471 min Scan# 11  
Delta R.T. 0.098 min  
Lab File: VY013378.D  
Acq: 20 Apr 2023 19:07

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-15-8.5-9.0

Tgt Ion: 75 Resp: 558  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.4 110.0#  
89 0.0 36.6 55.0#

