

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062723\  
 Data File : VY014454.D  
 Acq On : 27 Jun 2023 13:38  
 Operator : KP/MD  
 Sample : 03402-03RE  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP2-0623RE

Quant Time: Jun 27 16:43:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 17:18:46 2023  
 Response via : Initial Calibration

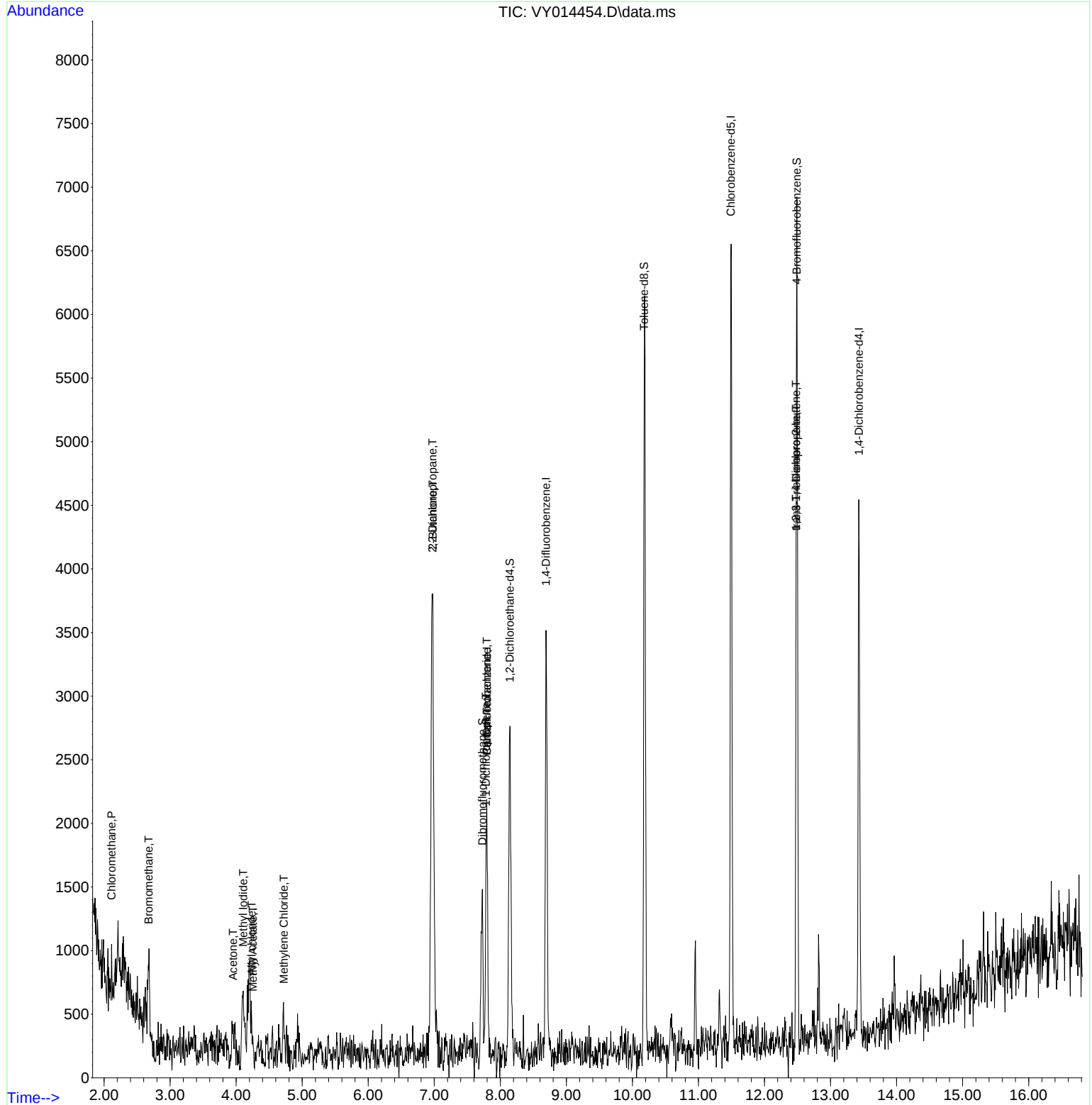
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|-------|-----------|
| -----                         |        |       |          |           |       |           |
| Internal Standards            |        |       |          |           |       |           |
| 1) Pentafluorobenzene         | 7.795  | 168   | 2029     | 50.000    | ug/l  | 0.00      |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 3764     | 50.000    | ug/l  | 0.00      |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 4251     | 50.000    | ug/l  | # 0.00    |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 1539     | 50.000    | ug/l  | 0.00      |
|                               |        |       |          |           |       |           |
| System Monitoring Compounds   |        |       |          |           |       |           |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 2730     | 108.369   | ug/l  | 0.00      |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =     | 216.740%# |
| 35) Dibromofluoromethane      | 7.728  | 113   | 974      | 41.884    | ug/l  | 0.01      |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =     | 83.760%   |
| 50) Toluene-d8                | 10.179 | 98    | 4496     | 48.637    | ug/l  | 0.00      |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =     | 97.280%   |
| 62) 4-Bromofluorobenzene      | 12.489 | 95    | 1539     | 46.634    | ug/l  | 0.00      |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =     | 93.260%   |
|                               |        |       |          |           |       |           |
| Target Compounds              |        |       |          |           |       | Qvalue    |
| 3) Chloromethane              | 2.113  | 50    | 170      | 9.223     | ug/l  | # 43      |
| 5) Bromomethane               | 2.674  | 94    | 378      | 21.416    | ug/l  | # 48      |
| 10) Methyl Iodide             | 4.107  | 142   | 820      | 34.073    | ug/l  | # 80      |
| 11) Tert butyl alcohol        | 4.911  | 59    | 20       | Below Cal | #     | 89        |
| 14) Allyl chloride            | 4.235  | 41    | 41       | 1.373     | ug/l  | # 22      |
| 16) Acetone                   | 3.954  | 43    | 486      | 61.309    | ug/l  | # 46      |
| 18) Methyl Acetate            | 4.253  | 43    | 44       | 1.615     | ug/l  | # 54      |
| 20) Methylene Chloride        | 4.722  | 84    | 269      | 6.968     | ug/l  | # 57      |
| 25) 2-Butanone                | 6.978  | 43    | 22       | 2.228     | ug/l  | # 49      |
| 26) 2,2-Dichloropropane       | 6.972  | 77    | 162      | 4.349     | ug/l  | # 54      |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 56       | 1.563     | ug/l  | # 41      |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 187      | 4.147     | ug/l  | # 12      |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 682      | 35.327    | ug/l  | # 100     |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 682      | 80.427    | ug/l  | # 10      |
| -----                         |        |       |          |           |       |           |

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

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Quant Title : SW846 8260  
QLast Update : Fri Jun 23 17:18:46 2023  
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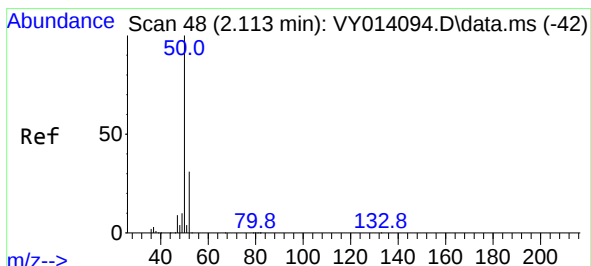
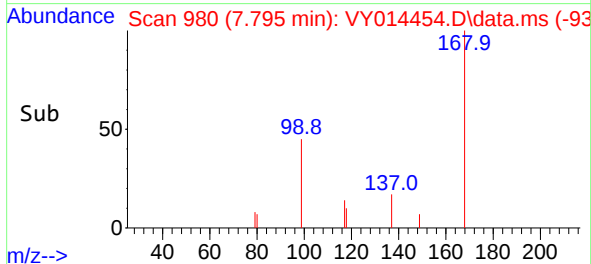
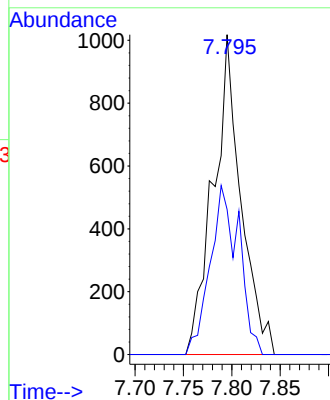
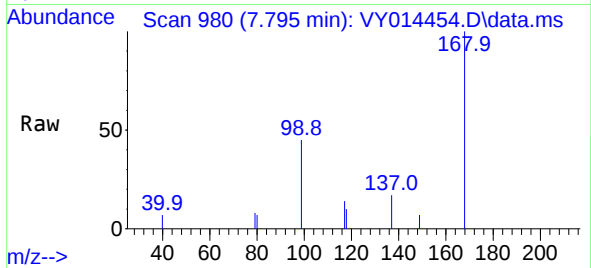




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

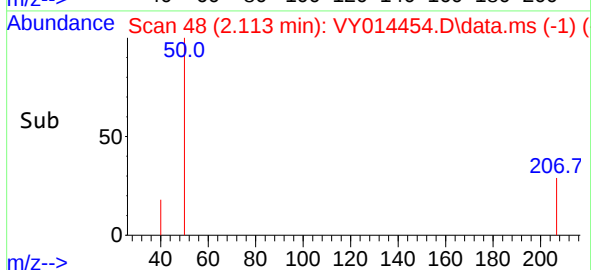
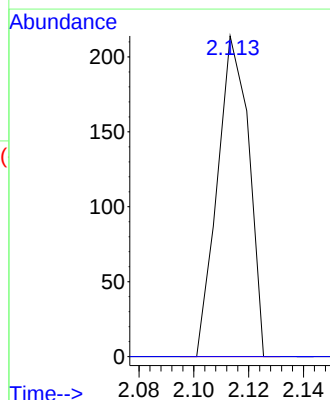
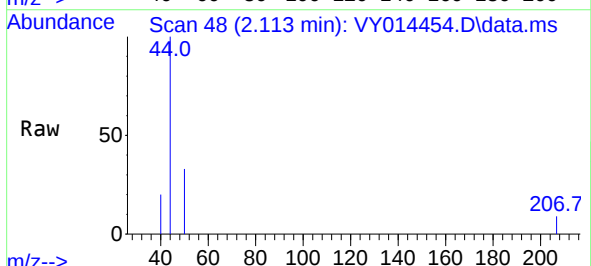
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP2-0623RE

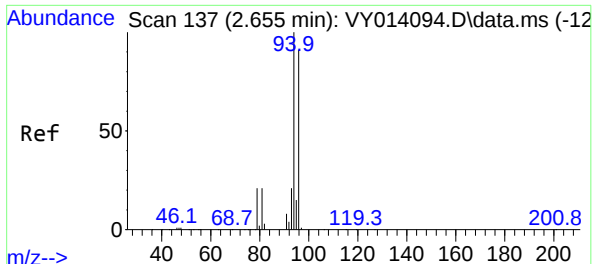
Tgt Ion:168 Resp: 2029  
Ion Ratio Lower Upper  
168 100  
99 45.4 43.4 65.0



#3  
Chloromethane  
Concen: 9.223 ug/l  
RT: 2.113 min Scan# 48  
Delta R.T. 0.000 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

Tgt Ion: 50 Resp: 170  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.2#

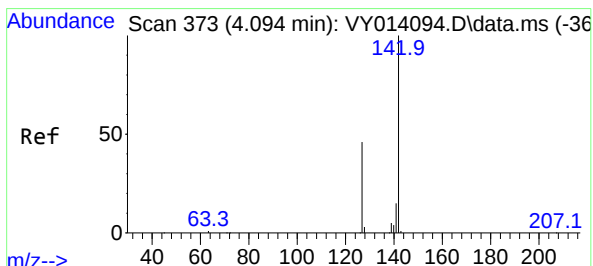
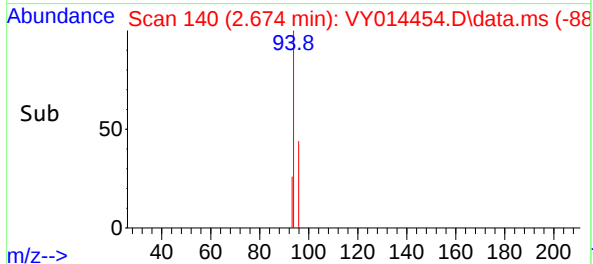
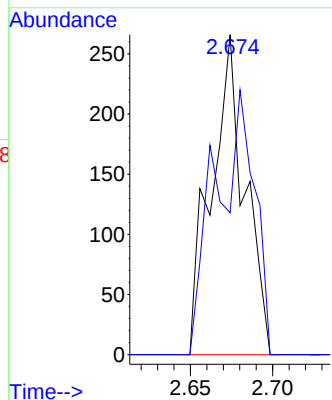
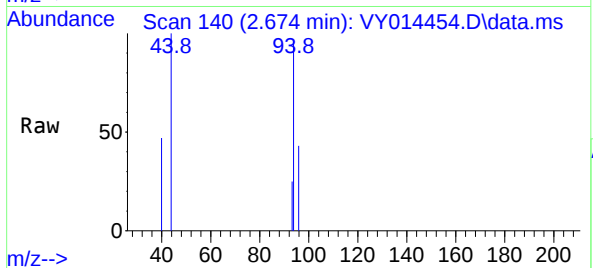




#5  
Bromomethane  
Concen: 21.416 ug/l  
RT: 2.674 min Scan# 14  
Delta R.T. 0.019 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

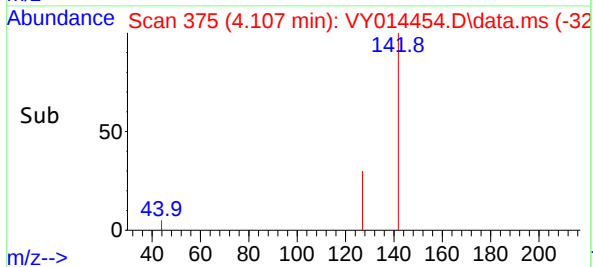
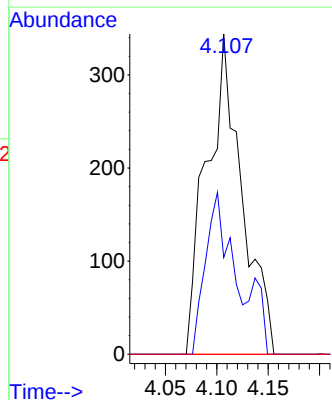
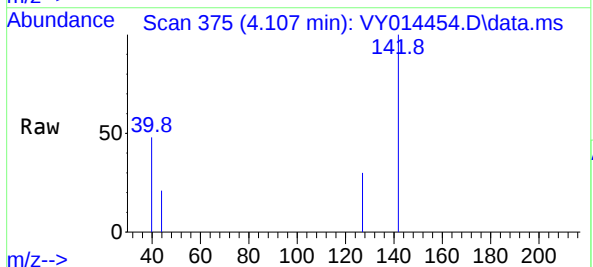
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP2-0623RE

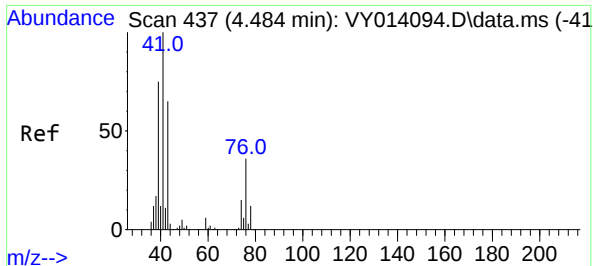
Tgt Ion: 94 Resp: 378  
Ion Ratio Lower Upper  
94 100  
96 44.4 75.8 113.6#



#10  
Methyl Iodide  
Concen: 34.073 ug/l  
RT: 4.107 min Scan# 375  
Delta R.T. 0.013 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

Tgt Ion: 142 Resp: 820  
Ion Ratio Lower Upper  
142 100  
127 36.8 37.6 56.4#  
141 0.0 11.8 17.8#

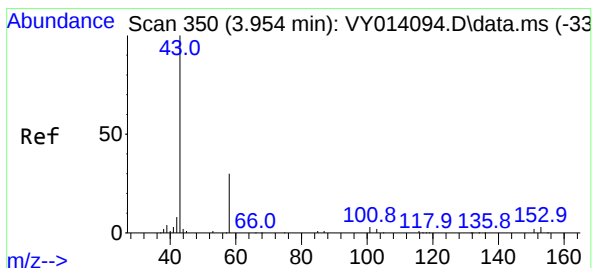
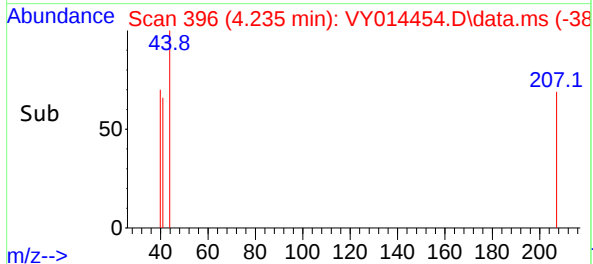
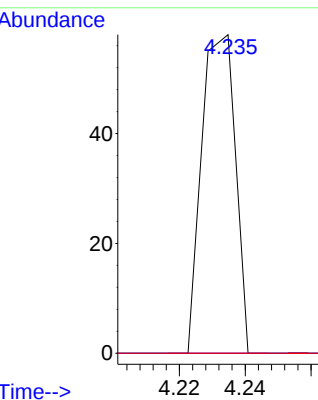
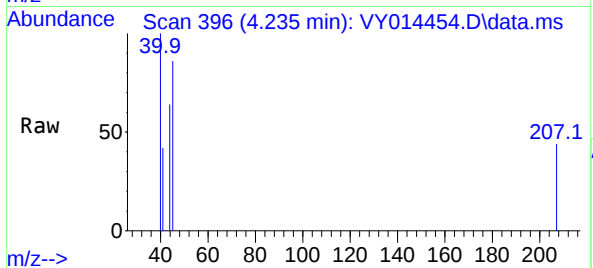




#14  
Allyl chloride  
Concen: 1.373 ug/l  
RT: 4.235 min Scan# 396  
Delta R.T. -0.249 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

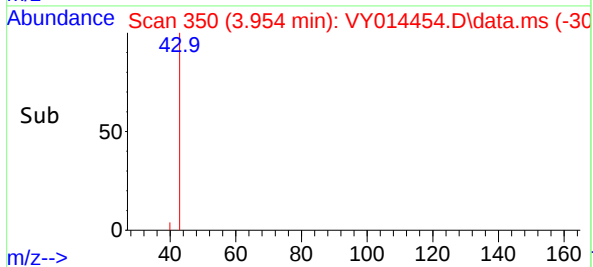
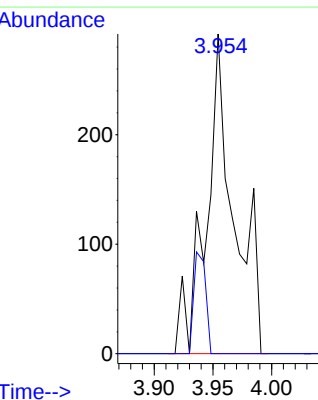
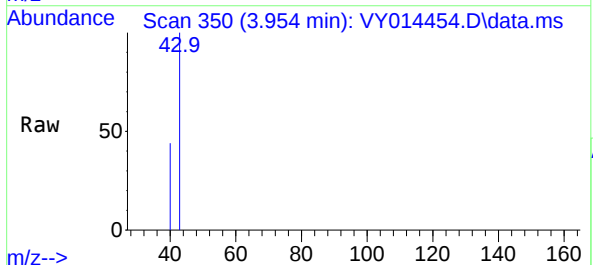
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP2-0623RE

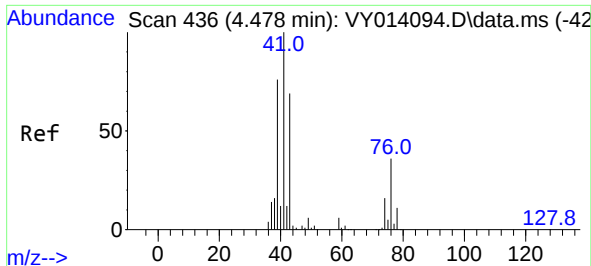
Tgt Ion: 41 Resp: 41  
Ion Ratio Lower Upper  
41 100  
39 0.0 58.0 87.0#  
76 0.0 27.4 41.2#



#16  
Acetone  
Concen: 61.309 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.000 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

Tgt Ion: 43 Resp: 486  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.7 34.1#

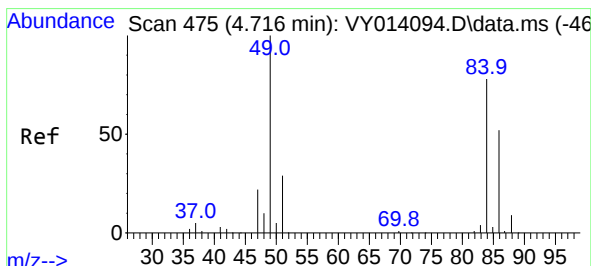
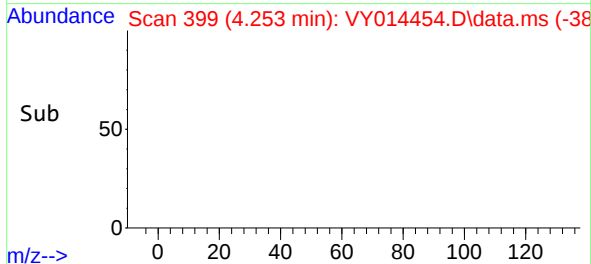
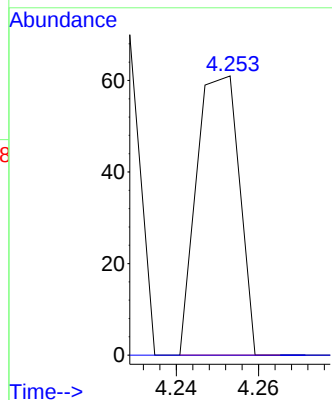
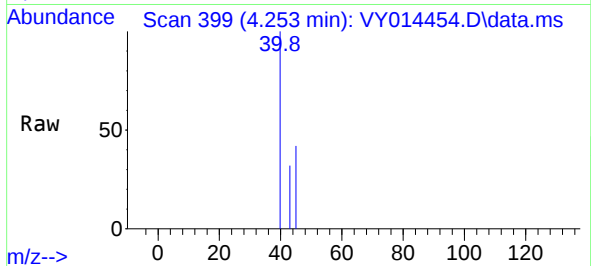




#18  
Methyl Acetate  
Concen: 1.615 ug/l  
RT: 4.253 min Scan# 399  
Delta R.T. -0.225 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

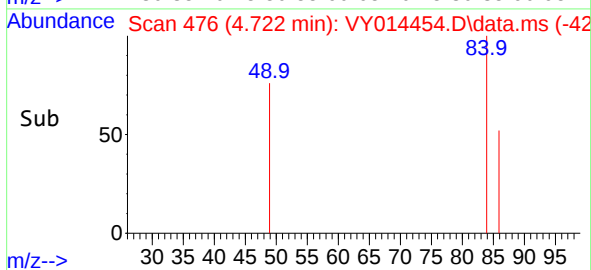
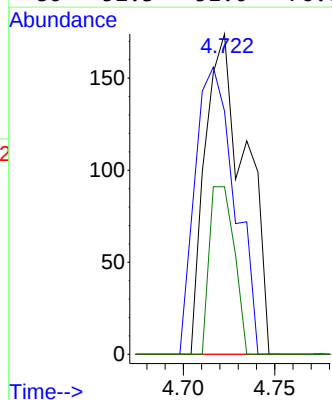
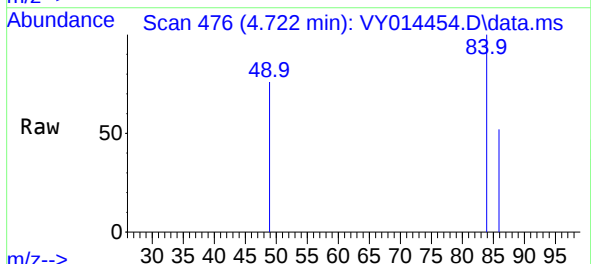
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP2-0623RE

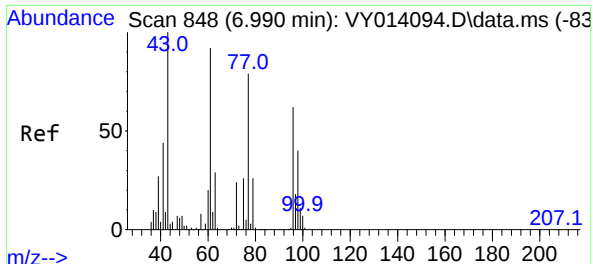
Tgt Ion: 43 Resp: 44  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.4 26.0#



#20  
Methylene Chloride  
Concen: 6.968 ug/l  
RT: 4.722 min Scan# 476  
Delta R.T. 0.006 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

Tgt Ion: 84 Resp: 269  
Ion Ratio Lower Upper  
84 100  
49 75.9 106.9 160.3#  
51 0.0 33.2 49.8#  
86 52.3 51.0 76.6





#25

2-Butanone

Concen: 2.228 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.012 min

Lab File: VY014454.D

Acq: 27 Jun 2023 13:38

Instrument :

MSVOA\_Y

ClientSampleId :

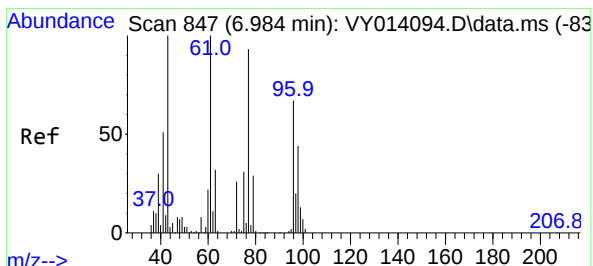
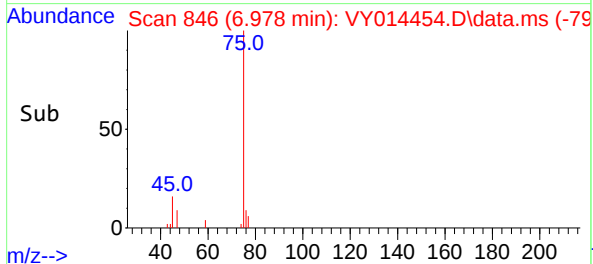
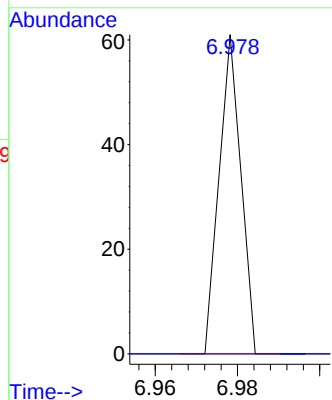
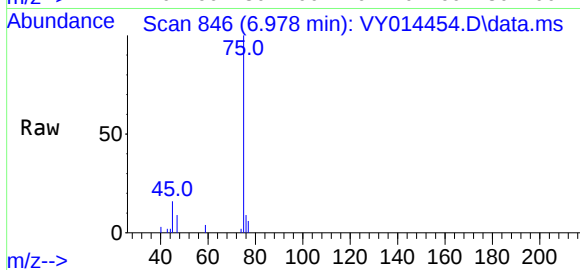
TP2-0623RE

Tgt Ion: 43 Resp: 22

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 4.349 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.012 min

Lab File: VY014454.D

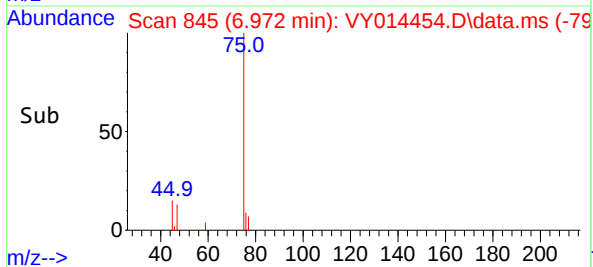
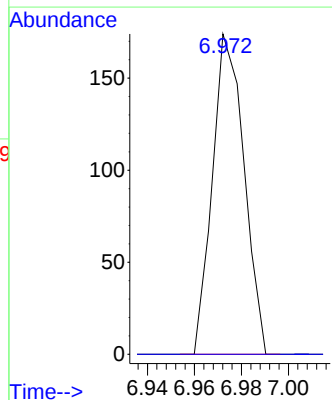
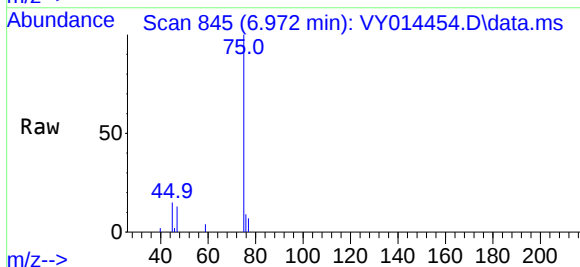
Acq: 27 Jun 2023 13:38

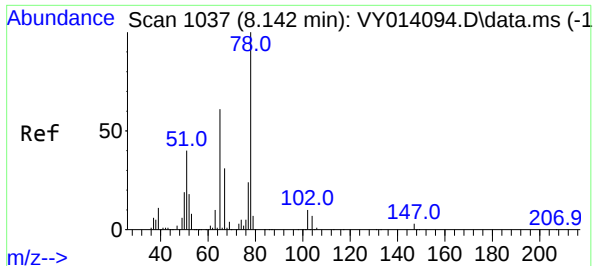
Tgt Ion: 77 Resp: 162

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 108.369 ug/l

RT: 8.143 min Scan# 1103

Delta R.T. 0.001 min

Lab File: VY014454.D

Acq: 27 Jun 2023 13:38

Instrument :

MSVOA\_Y

ClientSampleId :

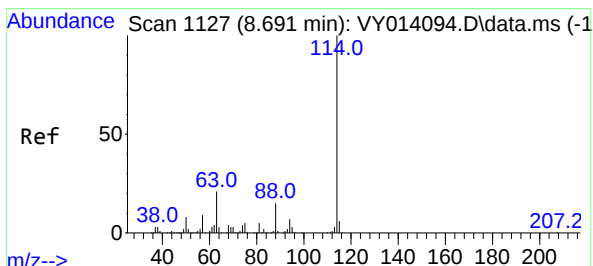
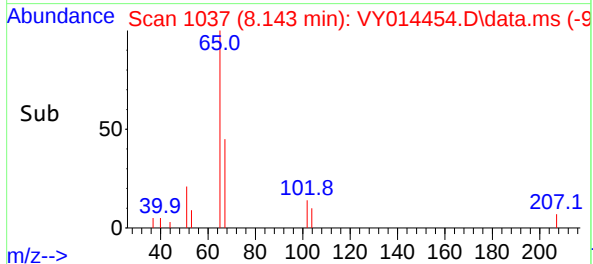
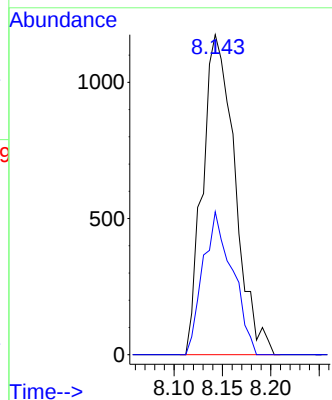
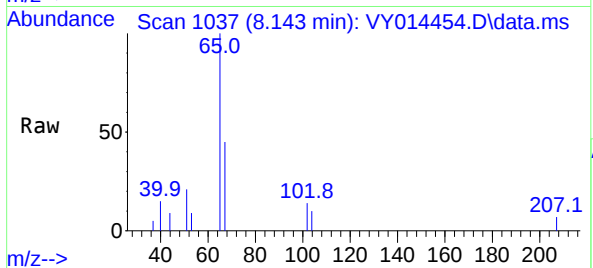
TP2-0623RE

Tgt Ion: 65 Resp: 2730

Ion Ratio Lower Upper

65 100

67 41.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY014454.D

Acq: 27 Jun 2023 13:38

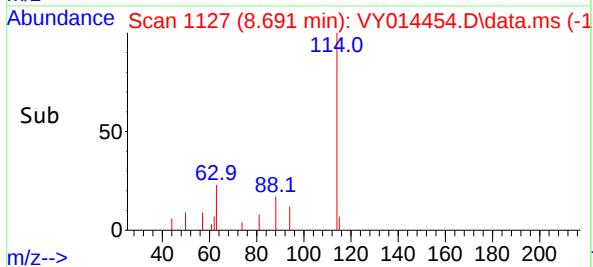
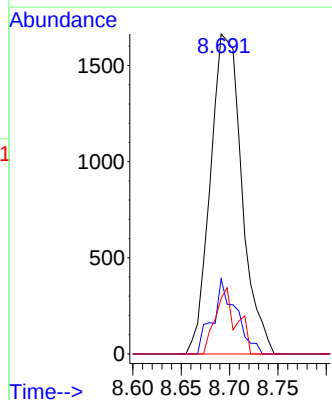
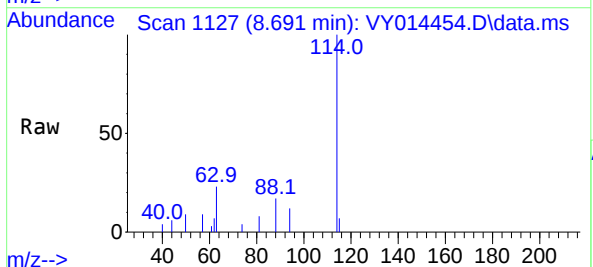
Tgt Ion: 114 Resp: 3764

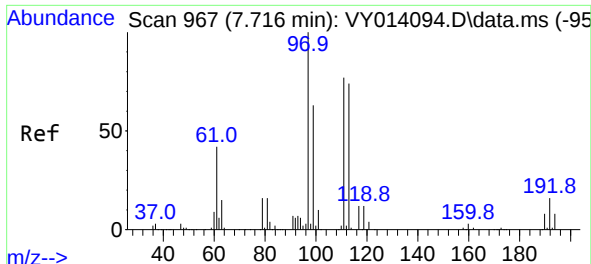
Ion Ratio Lower Upper

114 100

63 23.5 0.0 42.4

88 17.4 0.0 30.6

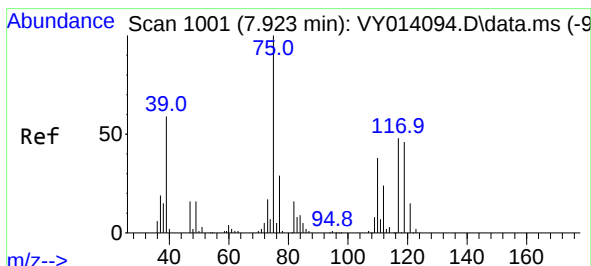
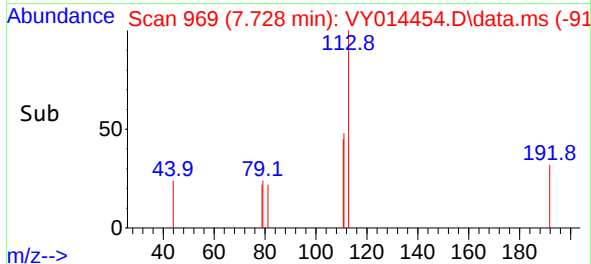
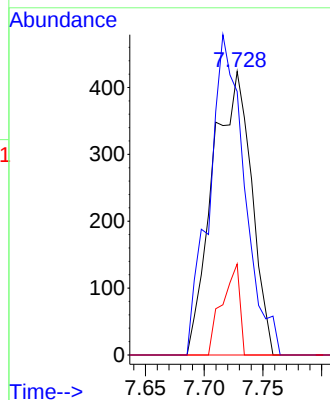
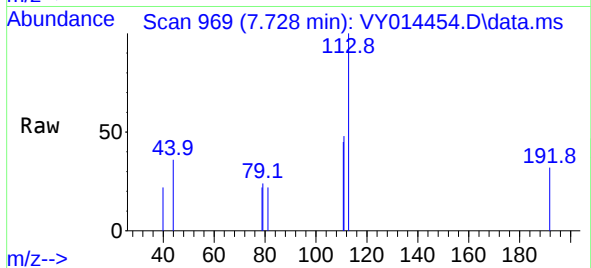




#35  
Dibromofluoromethane  
Concen: 41.884 ug/l  
RT: 7.728 min Scan# 90  
Delta R.T. 0.012 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

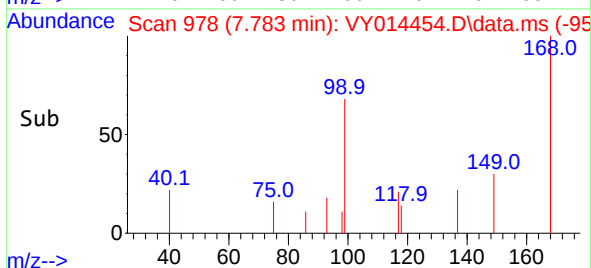
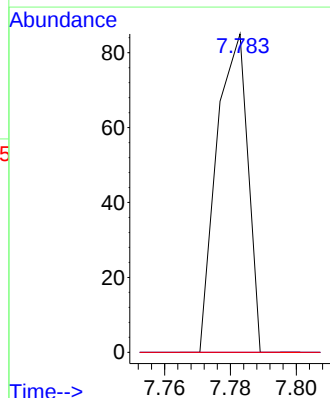
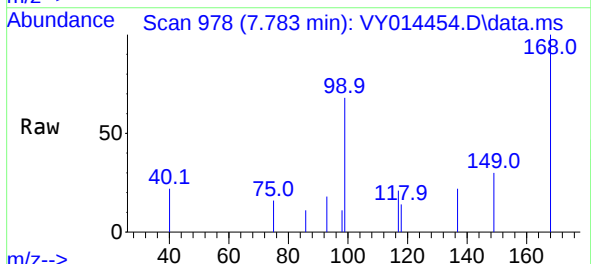
Instrument :  
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ClientSampleId :  
TP2-0623RE

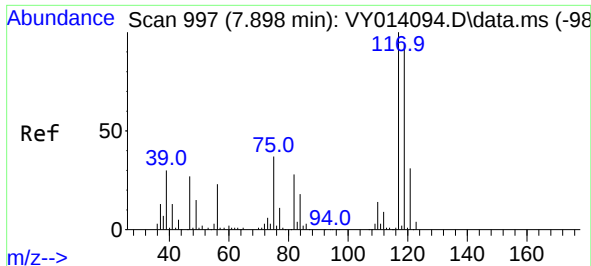
Tgt Ion:113 Resp: 974  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.3 121.9  
192 14.6 16.9 25.3#



#36  
1,1-Dichloropropene  
Concen: 1.563 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

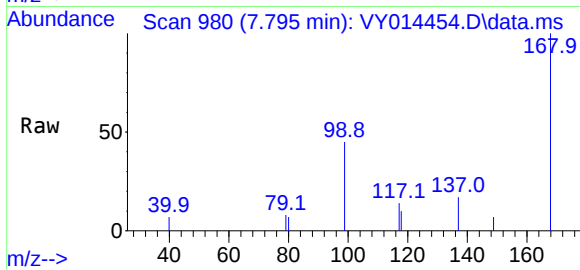
Tgt Ion: 75 Resp: 56  
Ion Ratio Lower Upper  
75 100  
110 0.0 17.8 53.5#  
77 0.0 24.4 36.6#



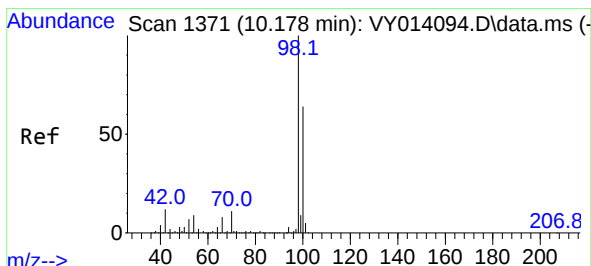
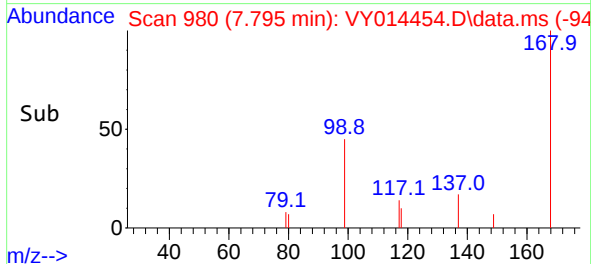
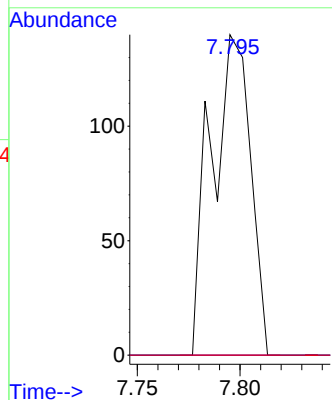


#38  
Carbon Tetrachloride  
Concen: 4.147 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.103 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP2-0623RE

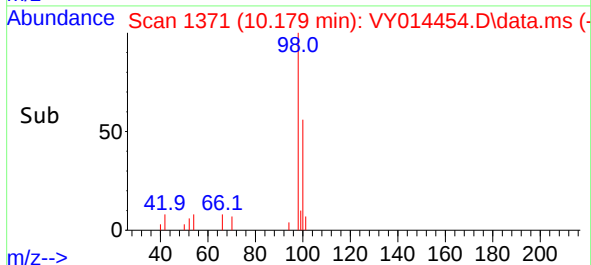
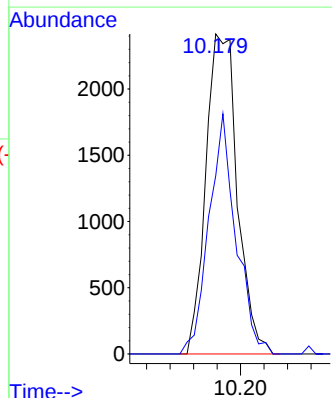
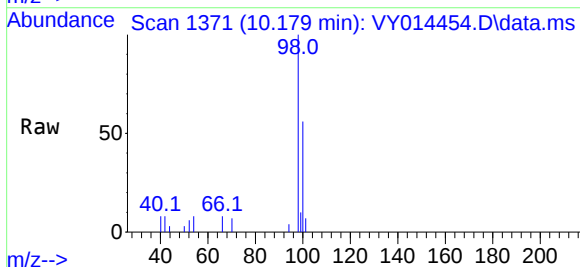


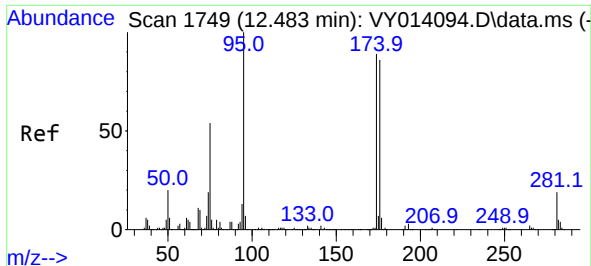
Tgt Ion:117 Resp: 187  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 48.637 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.001 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

Tgt Ion: 98 Resp: 4496  
Ion Ratio Lower Upper  
98 100  
100 64.6 50.1 75.1

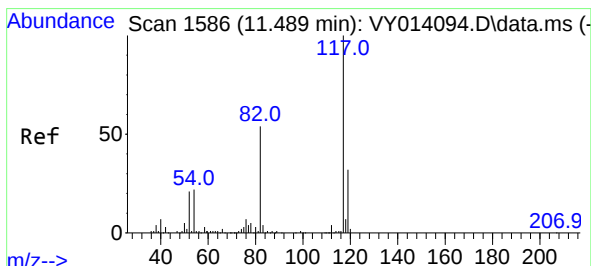
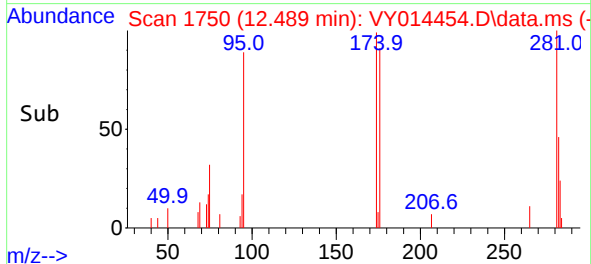
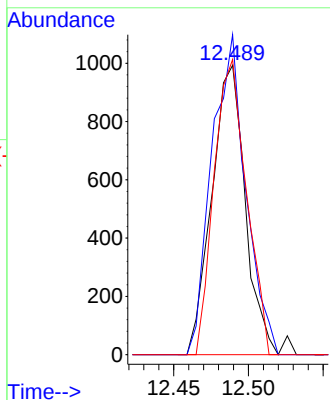
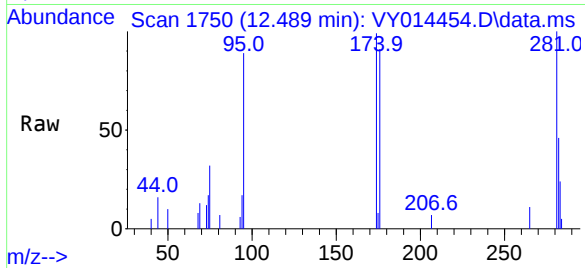




#62  
4-Bromofluorobenzene  
Concen: 46.634 ug/l  
RT: 12.489 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

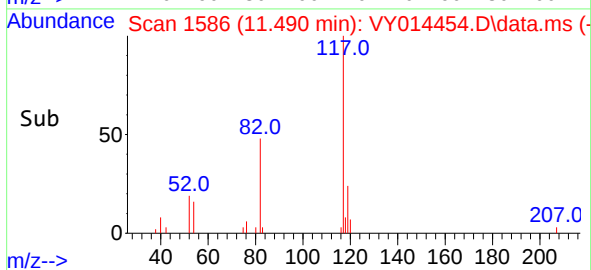
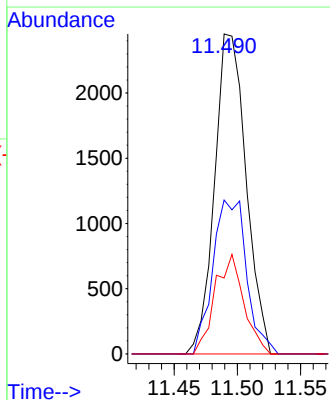
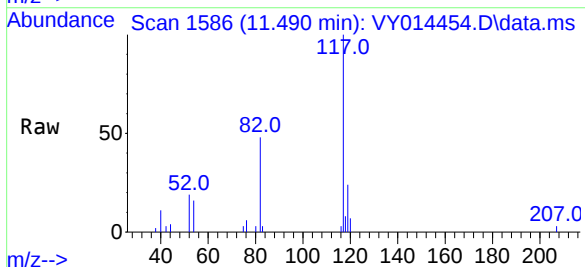
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP2-0623RE

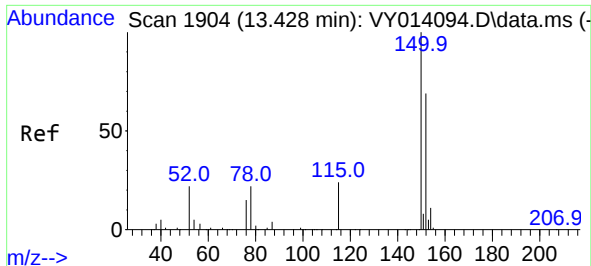
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 1539  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 113.0 | 0.0   | 178.2 |
| 176      | 99.1  | 0.0   | 173.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.001 min  
Lab File: VY014454.D  
Acq: 27 Jun 2023 13:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 4251  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 48.1  | 43.4  | 65.0  |
| 119      | 23.7  | 26.3  | 39.5  |

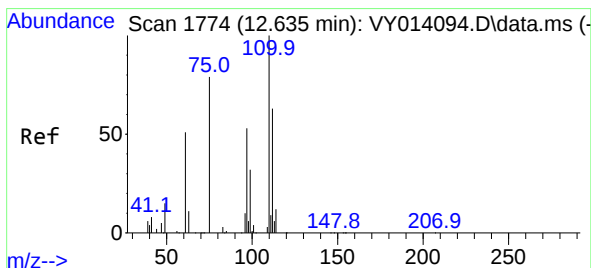
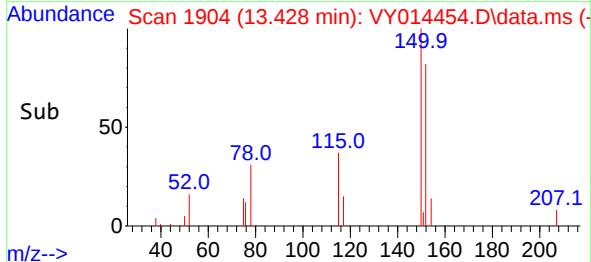
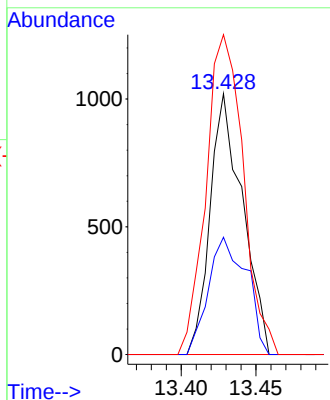
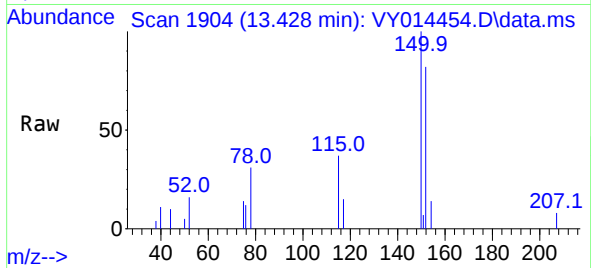




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.428 min Scan# 1904  
 Delta R.T. 0.000 min  
 Lab File: VY014454.D  
 Acq: 27 Jun 2023 13:38

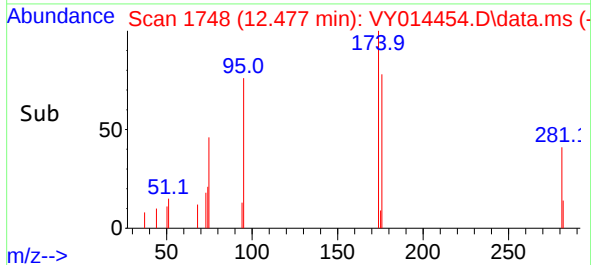
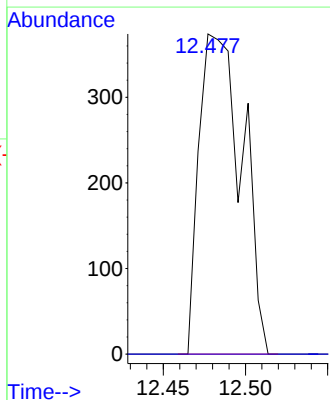
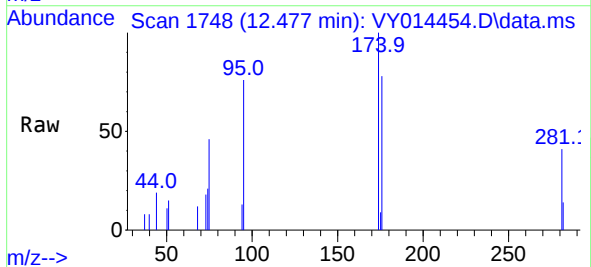
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP2-0623RE

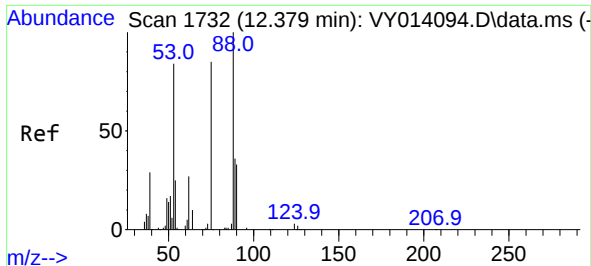
Tgt Ion:152 Resp: 1539  
 Ion Ratio Lower Upper  
 152 100  
 115 52.8 28.8 86.5  
 150 140.7 0.0 348.8



#76  
 1,2,3-Trichloropropane  
 Concen: 35.327 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.158 min  
 Lab File: VY014454.D  
 Acq: 27 Jun 2023 13:38

Tgt Ion: 75 Resp: 682  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 80.427 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.098 min  
 Lab File: VY014454.D  
 Acq: 27 Jun 2023 13:38

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP2-0623RE

Tgt Ion: 75 Resp: 682  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.8 116.8#  
 89 0.0 37.4 56.0#

