

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF052224\  
 Data File : BF138014.D  
 Acq On : 22 May 2024 19:55  
 Operator : CG\JU  
 Sample : P2564-01MS 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-05212024MS

Quant Time: May 23 01:13:56 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 15 04:12:16 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.033  | 152  | 139638   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.316  | 136  | 523313   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 10.080 | 164  | 246560   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.574 | 188  | 350146   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.227 | 240  | 281097   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.792 | 264  | 210111   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.657  | 112  | 347101   | 42.224 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.645  | 99   | 425120   | 41.981 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.592  | 82   | 250236   | 28.141 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.868 | 330  | 94029    | 37.822 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.392  | 172  | 527643   | 32.965 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.157 | 244  | 468205   | 24.548 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.951  | 88   | 59485    | 16.704 | ng    | 95       |
| 3) Pyridine                   | 3.722  | 79   | 141163   | 17.666 | ng    | 97       |
| 4) n-Nitrosodimethylamine     | 3.675  | 42   | 70309    | 19.945 | ng    | # 99     |
| 6) Aniline                    | 6.692  | 93   | 143977   | 15.896 | ng    | 99       |
| 8) 2-Chlorophenol             | 6.816  | 128  | 193050   | 21.700 | ng    | 100      |
| 9) Benzaldehyde               | 6.586  | 77   | 32006    | 5.842  | ng    | 99       |
| 10) Phenol                    | 6.657  | 94   | 219455   | 21.471 | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 6.763  | 93   | 168809   | 21.510 | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 6.975  | 146  | 207489   | 20.158 | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 7.051  | 146  | 210244   | 20.349 | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.204  | 146  | 198882   | 20.453 | ng    | 98       |
| 15) Benzyl Alcohol            | 7.169  | 79   | 148378   | 21.943 | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.298  | 45   | 212701   | 22.048 | ng    | 98       |
| 17) 2-Methylphenol            | 7.269  | 107  | 145746   | 20.543 | ng    | 99       |
| 18) Hexachloroethane          | 7.545  | 117  | 69471    | 19.871 | ng    | 95       |
| 19) n-Nitroso-di-n-propyla... | 7.433  | 70   | 125386   | 22.039 | ng    | 99       |
| 20) 3+4-Methylphenols         | 7.422  | 107  | 195099   | 20.991 | ng    | 97       |
| 22) Acetophenone              | 7.439  | 105  | 260247   | 22.199 | ng    | # 98     |
| 24) Nitrobenzene              | 7.610  | 77   | 184124   | 20.411 | ng    | 94       |
| 25) Isophorone                | 7.845  | 82   | 332089   | 21.518 | ng    | 99       |
| 26) 2-Nitrophenol             | 7.928  | 139  | 98213    | 21.668 | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 7.951  | 122  | 133119   | 22.811 | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 8.057  | 93   | 206043   | 22.028 | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 8.169  | 162  | 151451   | 20.638 | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.257  | 180  | 167466   | 20.439 | ng    | 97       |
| 31) Naphthalene               | 8.339  | 128  | 549580   | 20.887 | ng    | 99       |
| 32) Benzoic acid              | 8.033  | 122  | 80663    | 16.351 | ng    | 98       |
| 33) 4-Chloroaniline           | 8.380  | 127  | 110273   | 12.784 | ng    | 98       |
| 34) Hexachlorobutadiene       | 8.451  | 225  | 104471   | 20.144 | ng    | 97       |
| 35) Caprolactam               | 8.733  | 113  | 40353    | 18.980 | ng    | 92       |
| 36) 4-Chloro-3-methylphenol   | 8.857  | 107  | 143806   | 19.264 | ng    | 100      |
| 37) 2-Methylnaphthalene       | 9.033  | 142  | 349211   | 20.647 | ng    | 99       |
| 38) 1-Methylnaphthalene       | 9.133  | 142  | 315034   | 18.946 | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 9.198  | 216  | 160932   | 24.009 | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.180  | 237  | 59515    | 23.367 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 9.304  | 196  | 99510    | 22.642 | ng    | 99       |

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 Sample : P2564-01MS 2X  
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Instrument :  
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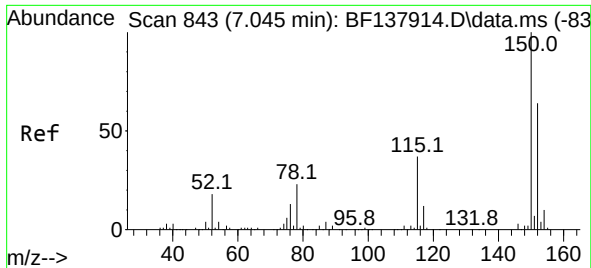
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 15 04:12:16 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.345  | 196  | 98806    | 20.547 | ng    | 95       |
| 46) 1,1'-Biphenyl             | 9.498  | 154  | 413233   | 23.895 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.522  | 162  | 304559   | 22.062 | ng    | 98       |
| 48) 2-Nitroaniline            | 9.616  | 65   | 75719    | 21.420 | ng    | 96       |
| 49) Acenaphthylene            | 9.945  | 152  | 465213   | 23.437 | ng    | 100      |
| 50) Dimethylphthalate         | 9.786  | 163  | 366857   | 23.728 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.857  | 165  | 73690    | 20.766 | ng    | 95       |
| 52) Acenaphthene              | 10.116 | 154  | 272746   | 20.790 | ng    | 100      |
| 53) 3-Nitroaniline            | 10.027 | 138  | 57619    | 16.609 | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 10.133 | 184  | 18732    | 15.888 | ng    | # 81     |
| 55) Dibenzofuran              | 10.286 | 168  | 405969   | 21.263 | ng    | 99       |
| 56) 4-Nitrophenol             | 10.174 | 139  | 93666    | 37.592 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 10.257 | 165  | 89380    | 19.483 | ng    | # 88     |
| 58) Fluorene                  | 10.633 | 166  | 306506   | 20.296 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.398 | 232  | 74414    | 19.698 | ng    | 98       |
| 60) Diethylphthalate          | 10.492 | 149  | 324466   | 22.470 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.621 | 204  | 157948   | 21.208 | ng    | 91       |
| 62) 4-Nitroaniline            | 10.639 | 138  | 56101    | 17.050 | ng    | 97       |
| 63) Azobenzene                | 10.780 | 77   | 270502   | 20.595 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.669 | 198  | 16425    | 8.124  | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 10.733 | 169  | 264339   | 24.617 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 11.116 | 248  | 88013    | 22.928 | ng    | 94       |
| 68) Hexachlorobenzene         | 11.180 | 284  | 91410    | 21.543 | ng    | 97       |
| 69) Atrazine                  | 11.257 | 200  | 79356    | 27.064 | ng    | 99       |
| 70) Pentachlorophenol         | 11.374 | 266  | 104970   | 42.233 | ng    | 99       |
| 71) Phenanthrene              | 11.598 | 178  | 401746   | 23.283 | ng    | 100      |
| 72) Anthracene                | 11.651 | 178  | 397841   | 23.238 | ng    | 100      |
| 73) Carbazole                 | 11.804 | 167  | 349627   | 22.356 | ng    | 99       |
| 74) Di-n-butylphthalate       | 12.127 | 149  | 427725   | 24.644 | ng    | 99       |
| 75) Fluoranthene              | 12.792 | 202  | 444290   | 25.368 | ng    | 98       |
| 77) Benzidine                 | 12.915 | 184  | 76257    | 20.758 | ng    | 97       |
| 78) Pyrene                    | 13.027 | 202  | 464985   | 18.913 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.633 | 149  | 172666   | 23.284 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.215 | 228  | 409893   | 23.048 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.174 | 252  | 98132    | 19.911 | ng    | 99       |
| 83) Chrysene                  | 14.257 | 228  | 388988   | 22.871 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.186 | 149  | 256559   | 27.522 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 14.815 | 149  | 425199   | 33.763 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 17.415 | 276  | 246141   | 18.234 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.321 | 252  | 311973   | 25.644 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.351 | 252  | 305550   | 25.566 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.721 | 252  | 258601   | 24.894 | ng    | # 96     |
| 91) Dibenzo(a,h)anthracene    | 17.439 | 278  | 194959   | 17.480 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.909 | 276  | 190352   | 16.247 | ng    | 99       |

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

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QLast Update : Wed May 15 04:12:16 2024  
Response via : Initial Calibration

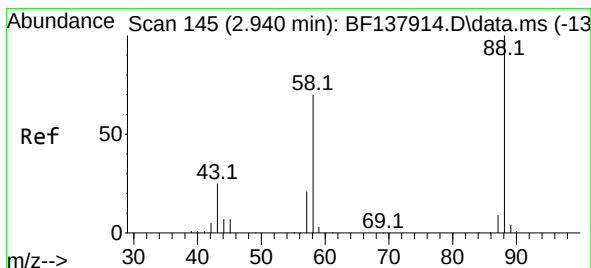
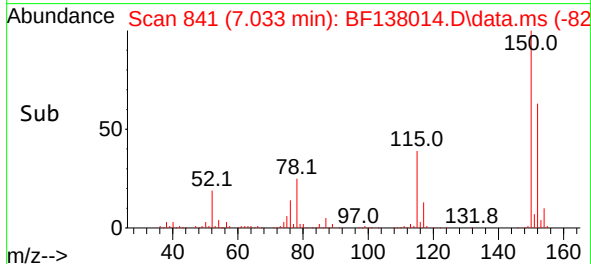
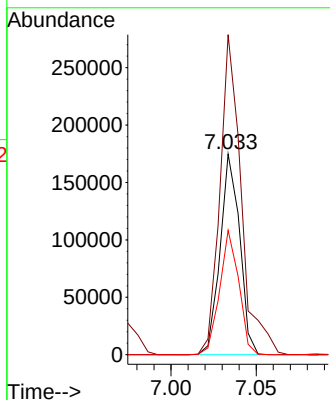
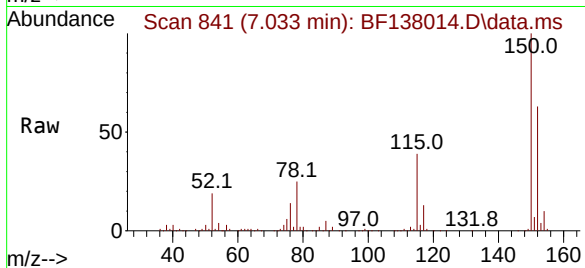




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.033 min Scan# 84  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

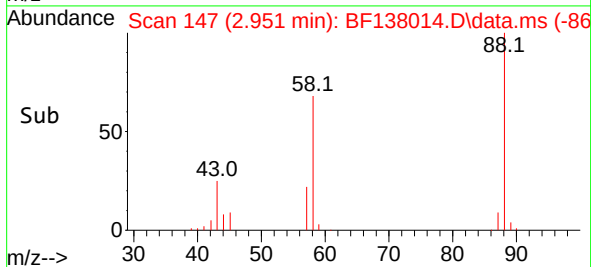
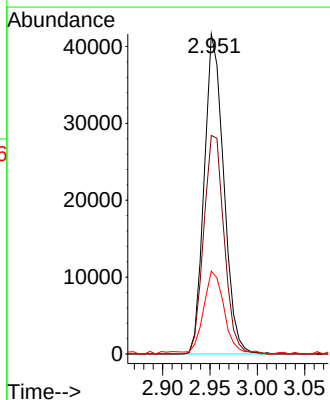
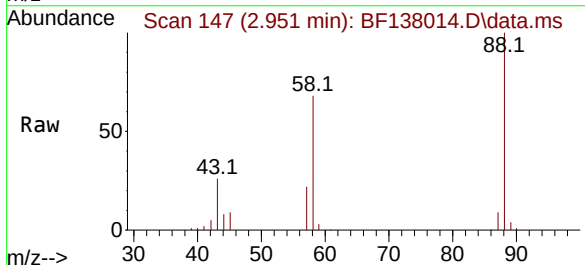
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

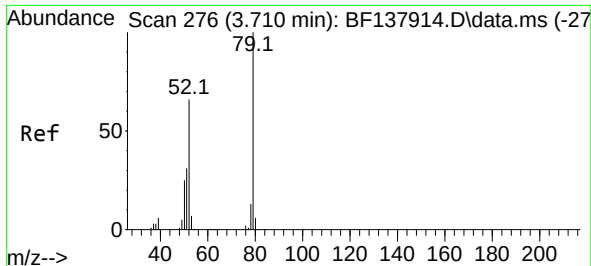
Tgt Ion:152 Resp: 139638  
Ion Ratio Lower Upper  
152 100  
150 159.5 125.7 188.5  
115 61.9 47.0 70.6



#2  
1,4-Dioxane  
Concen: 16.704 ng  
RT: 2.951 min Scan# 147  
Delta R.T. 0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion: 88 Resp: 59485  
Ion Ratio Lower Upper  
88 100  
58 71.4 54.4 81.6  
43 27.5 19.6 29.4

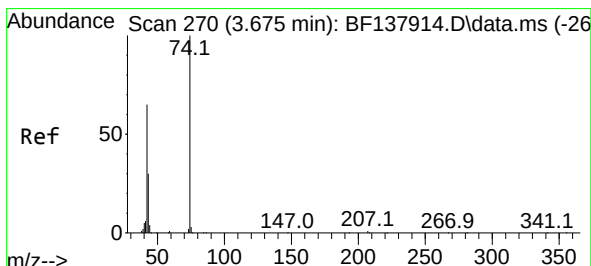
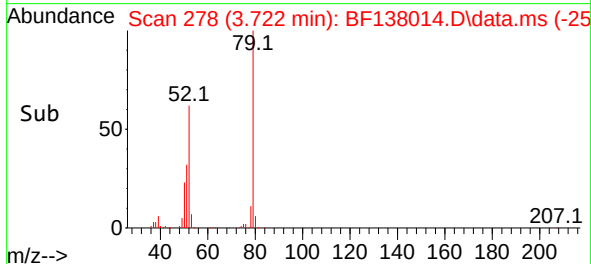
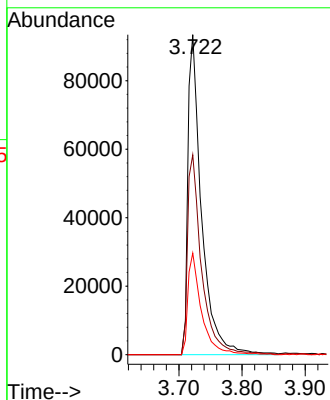
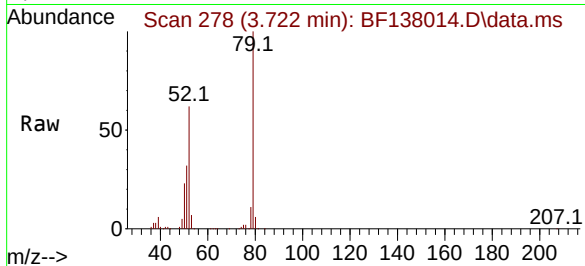




#3  
 Pyridine  
 Concen: 17.666 ng  
 RT: 3.722 min Scan# 21  
 Delta R.T. 0.012 min  
 Lab File: BF138014.D  
 Acq: 22 May 2024 19:55

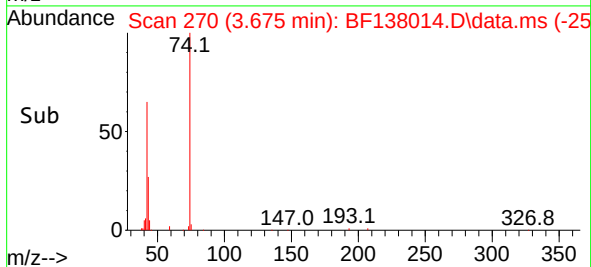
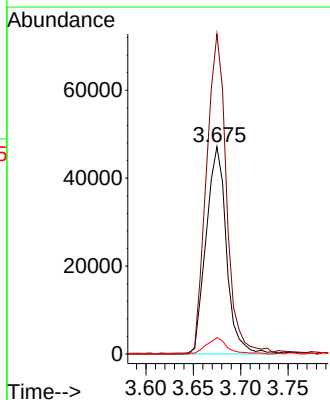
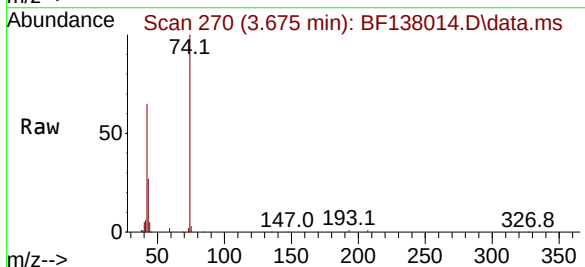
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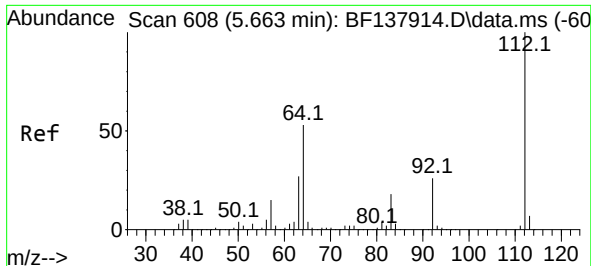
Tgt Ion: 79 Resp: 141163  
 Ion Ratio Lower Upper  
 79 100  
 52 62.5 52.5 78.7  
 51 31.8 25.1 37.7



#4  
 n-Nitrosodimethylamine  
 Concen: 19.945 ng  
 RT: 3.675 min Scan# 270  
 Delta R.T. -0.000 min  
 Lab File: BF138014.D  
 Acq: 22 May 2024 19:55

Tgt Ion: 42 Resp: 70309  
 Ion Ratio Lower Upper  
 42 100  
 74 154.4 123.1 184.7  
 44 7.8 5.0 7.6#

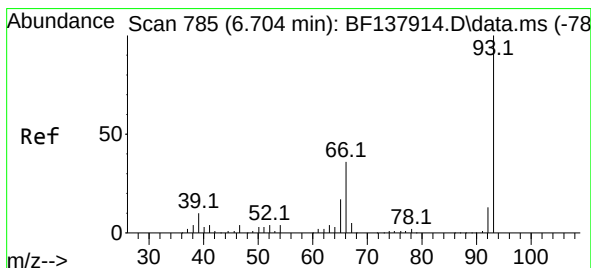
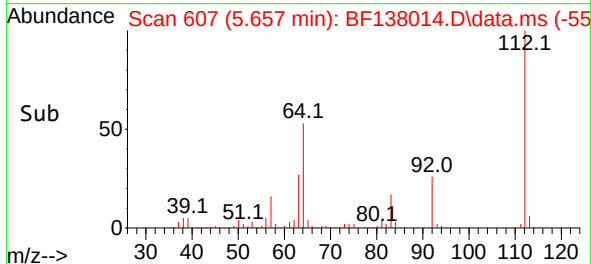
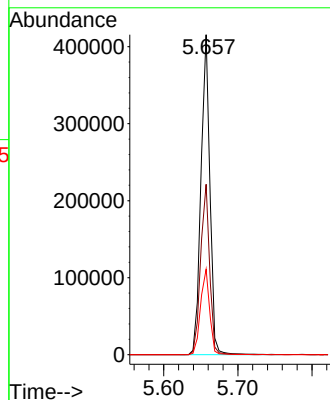
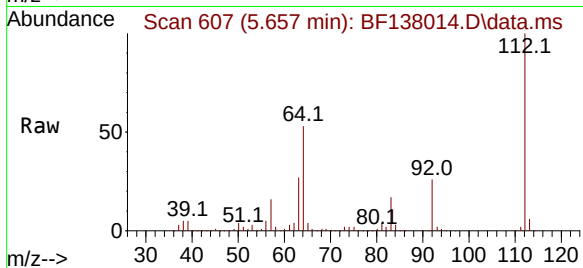




#5  
2-Fluorophenol  
Concen: 42.224 ng  
RT: 5.657 min Scan# 608  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

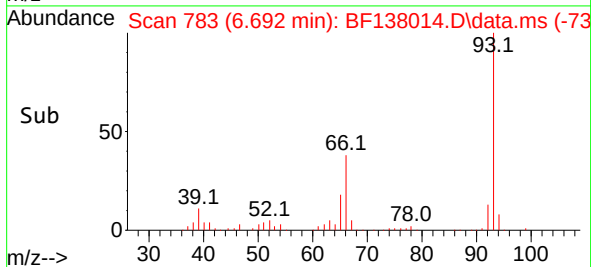
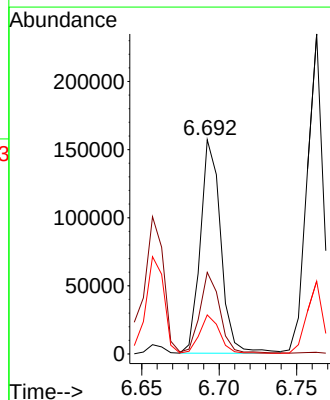
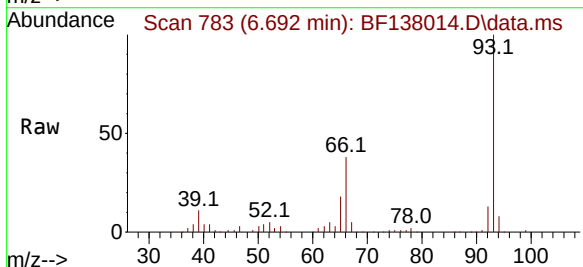
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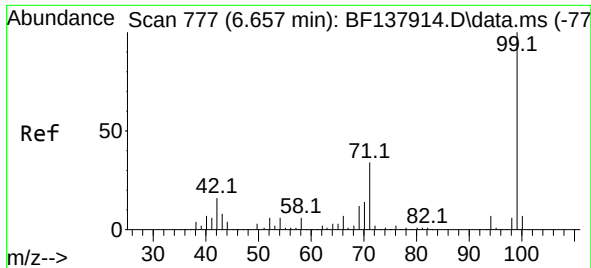
Tgt Ion:112 Resp: 347101  
Ion Ratio Lower Upper  
112 100  
64 53.2 42.4 63.6  
63 26.7 21.4 32.2



#6  
Aniline  
Concen: 15.896 ng  
RT: 6.692 min Scan# 783  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion: 93 Resp: 143977  
Ion Ratio Lower Upper  
93 100  
66 38.1 30.7 46.1  
65 18.2 15.0 22.4





#7

Phenol-d6

Concen: 41.981 ng

RT: 6.645 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

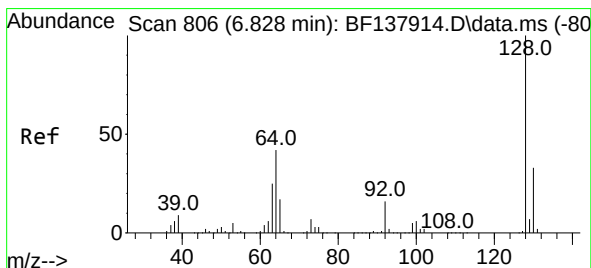
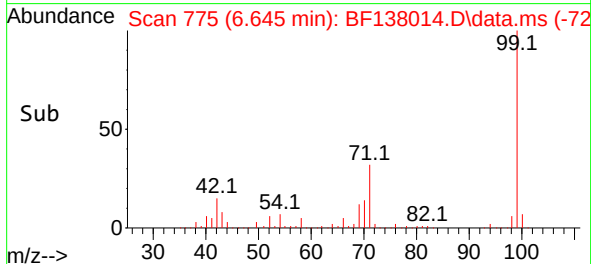
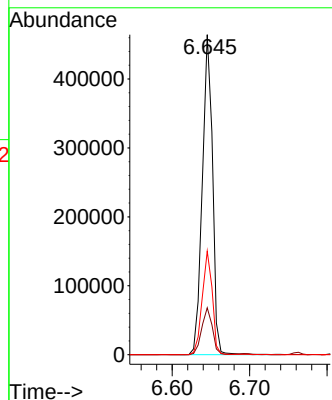
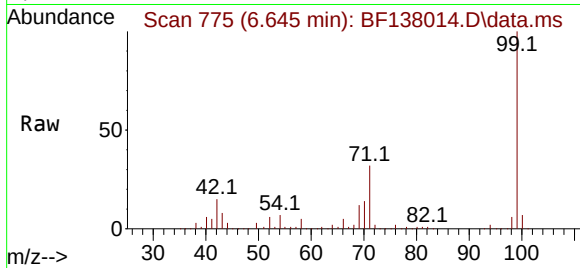
Tgt Ion: 99 Resp: 425120

Ion Ratio Lower Upper

99 100

42 14.6 12.6 18.8

71 32.3 27.1 40.7



#8

2-Chlorophenol

Concen: 21.700 ng

RT: 6.816 min Scan# 804

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

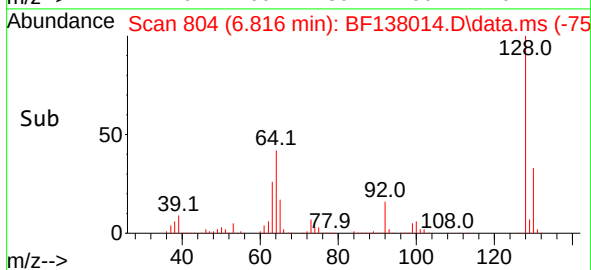
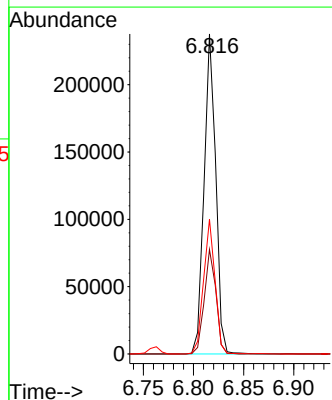
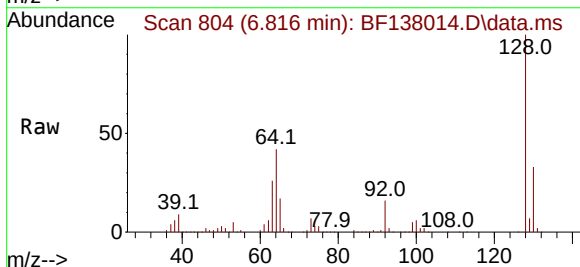
Tgt Ion: 128 Resp: 193050

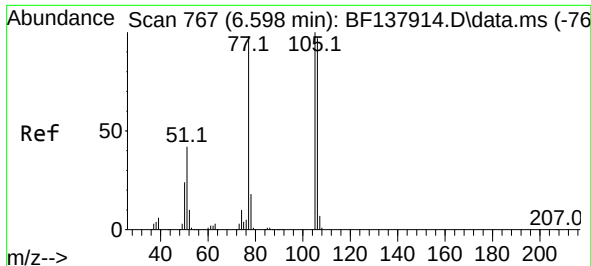
Ion Ratio Lower Upper

128 100

130 32.7 12.8 52.8

64 42.1 22.2 62.2

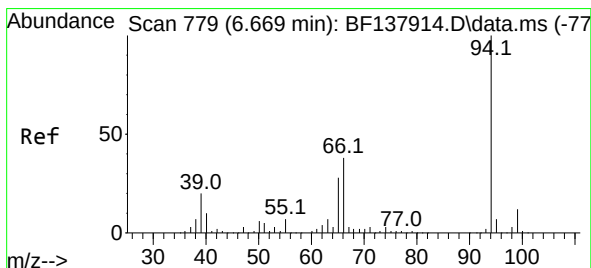
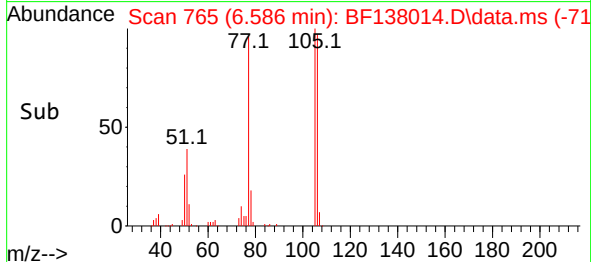
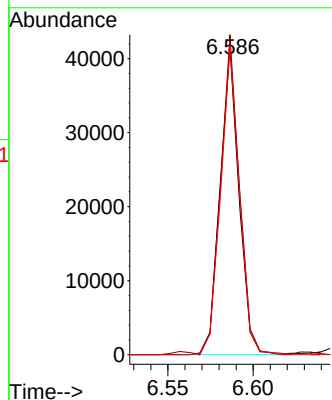
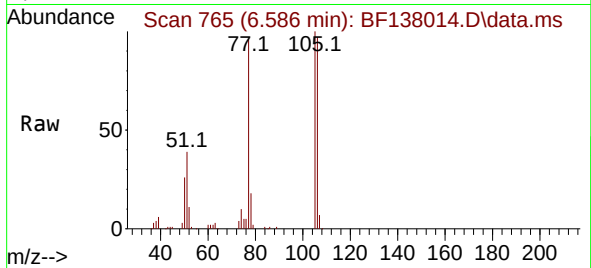




#9  
Benzaldehyde  
Concen: 5.842 ng  
RT: 6.586 min Scan# 765  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

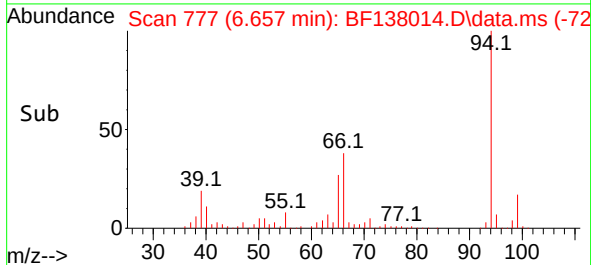
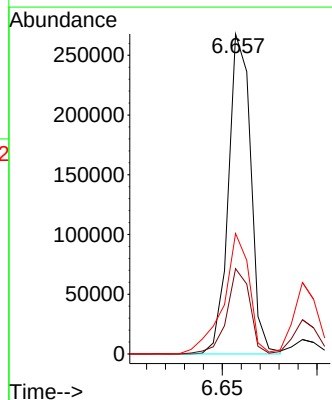
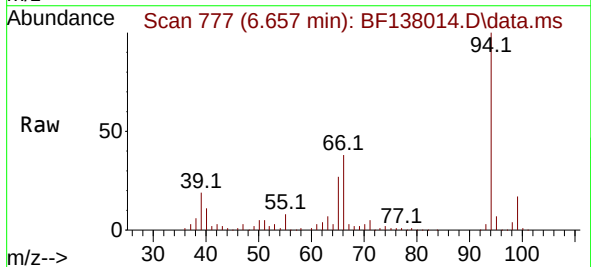
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

Tgt Ion: 77 Resp: 32006  
Ion Ratio Lower Upper  
77 100  
105 103.9 82.3 122.3  
106 100.3 79.2 119.2

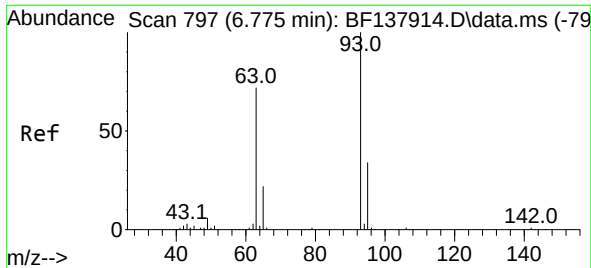


#10  
Phenol  
Concen: 21.471 ng  
RT: 6.657 min Scan# 777  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion: 94 Resp: 219455  
Ion Ratio Lower Upper  
94 100  
65 26.7 7.8 47.8  
66 37.6 18.6 58.6



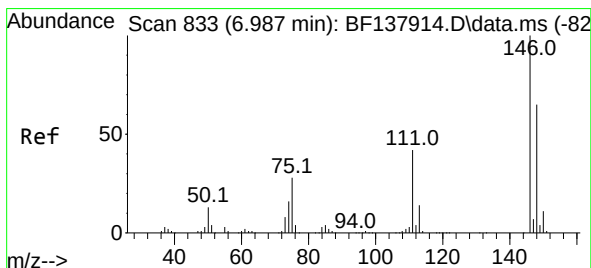
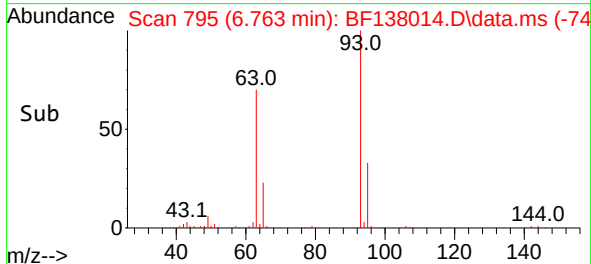
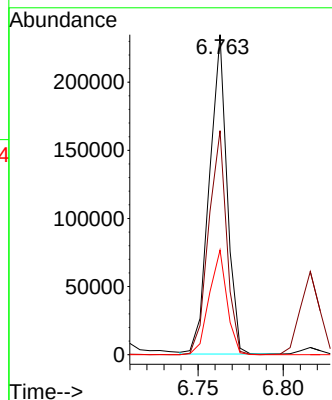
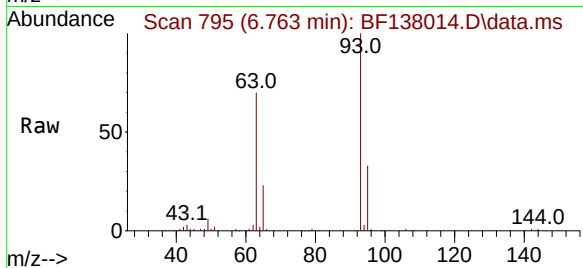




#11  
bis(2-Chloroethyl)ether  
Concen: 21.510 ng  
RT: 6.763 min Scan# 797  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

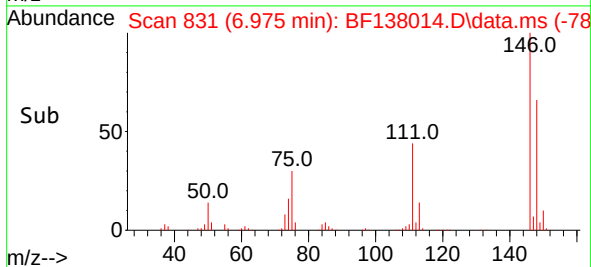
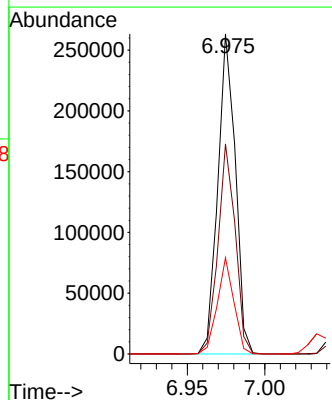
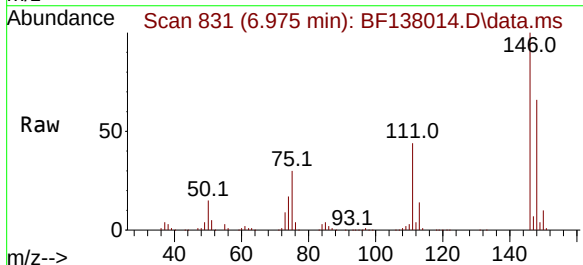
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

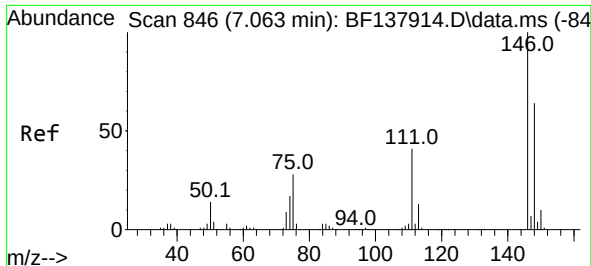
Tgt Ion: 93 Resp: 168809  
Ion Ratio Lower Upper  
93 100  
63 70.0 51.4 91.4  
95 32.7 13.5 53.5



#12  
1,3-Dichlorobenzene  
Concen: 20.158 ng  
RT: 6.975 min Scan# 831  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:146 Resp: 207489  
Ion Ratio Lower Upper  
146 100  
148 65.6 51.7 77.5  
75 30.1 22.4 33.6





#13

1,4-Dichlorobenzene

Concen: 20.349 ng

RT: 7.051 min Scan# 84

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

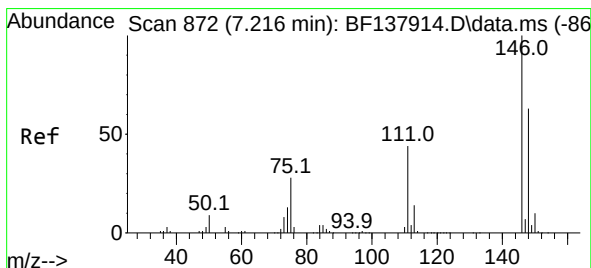
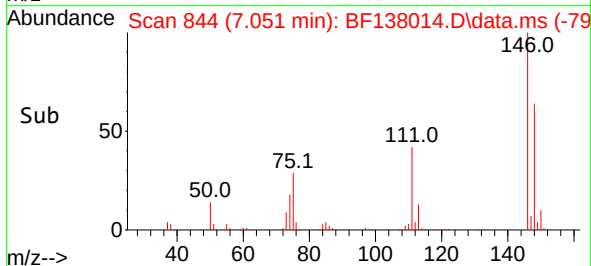
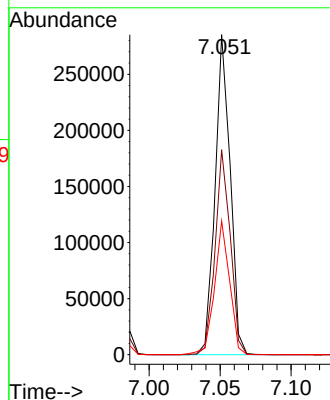
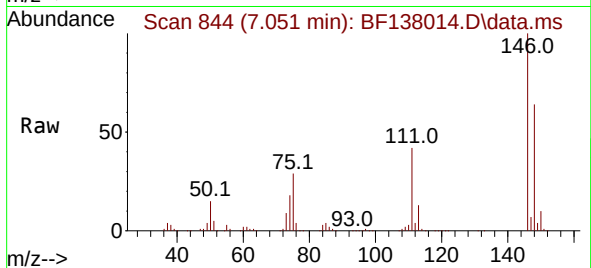
Tgt Ion:146 Resp: 210244

Ion Ratio Lower Upper

146 100

148 64.1 51.0 76.6

111 41.8 32.5 48.7



#14

1,2-Dichlorobenzene

Concen: 20.453 ng

RT: 7.204 min Scan# 870

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

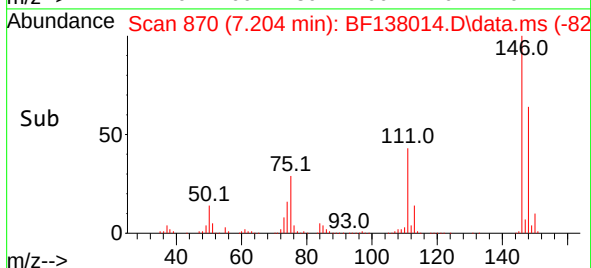
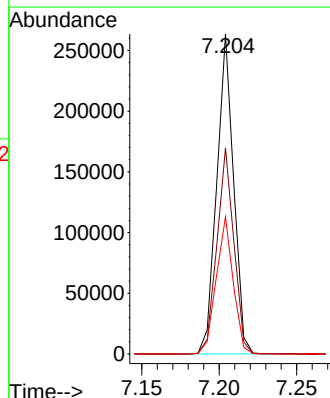
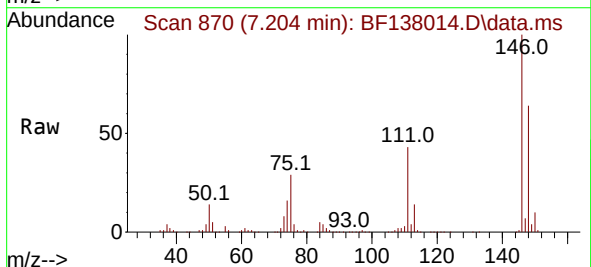
Tgt Ion:146 Resp: 198882

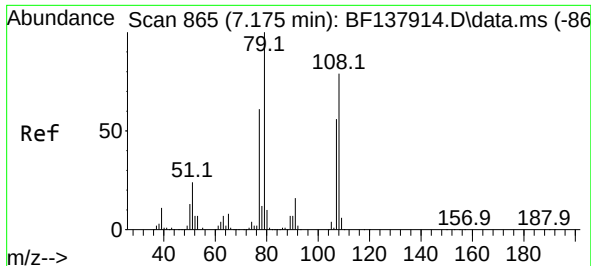
Ion Ratio Lower Upper

146 100

148 64.4 50.2 75.4

111 42.9 35.1 52.7

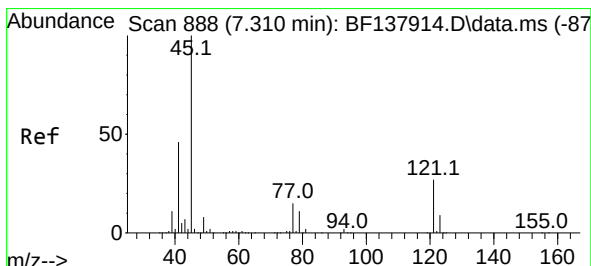
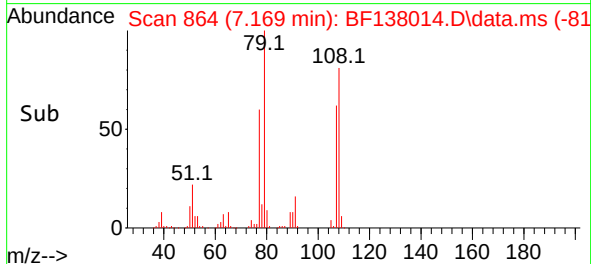
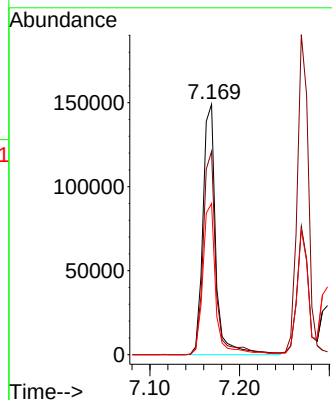
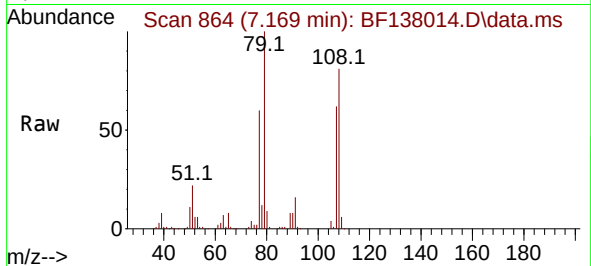




#15  
Benzyl Alcohol  
Concen: 21.943 ng  
RT: 7.169 min Scan# 864  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

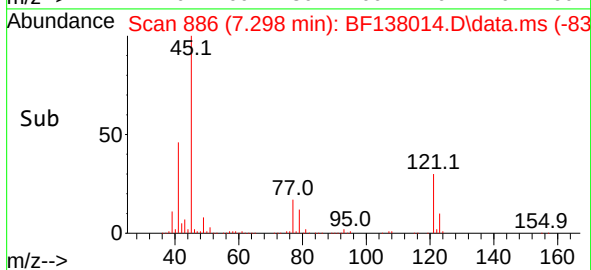
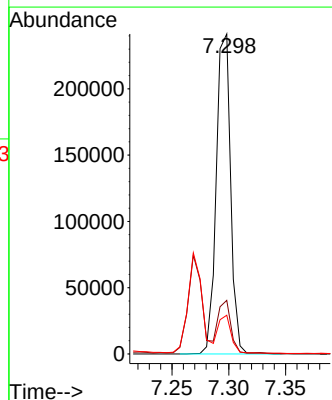
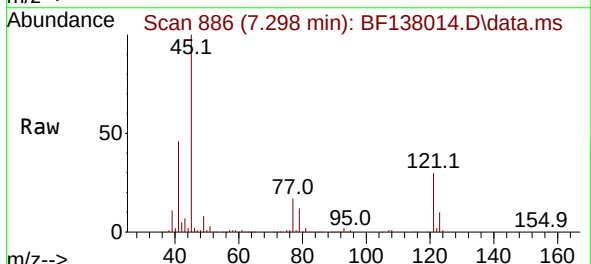
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

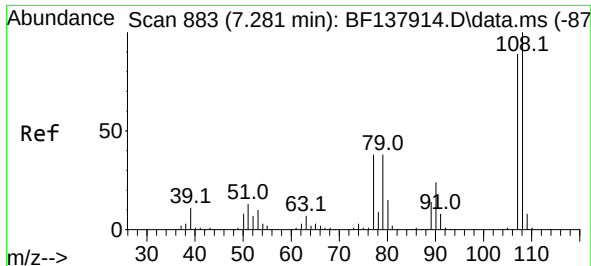
Tgt Ion: 79 Resp: 148378  
Ion Ratio Lower Upper  
79 100  
108 81.2 62.8 94.2  
77 60.4 48.7 73.1



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 22.048 ng  
RT: 7.298 min Scan# 886  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion: 45 Resp: 212701  
Ion Ratio Lower Upper  
45 100  
77 16.7 0.0 35.3  
79 12.1 0.0 32.1

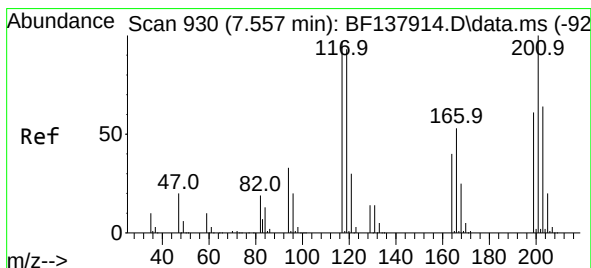
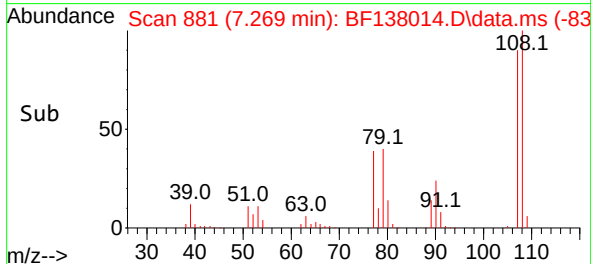
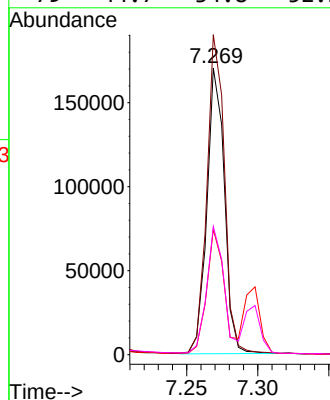
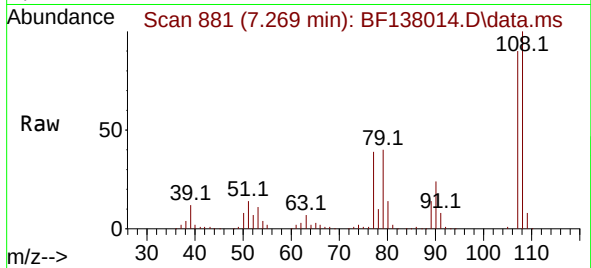




#17  
2-Methylphenol  
Concen: 20.543 ng  
RT: 7.269 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

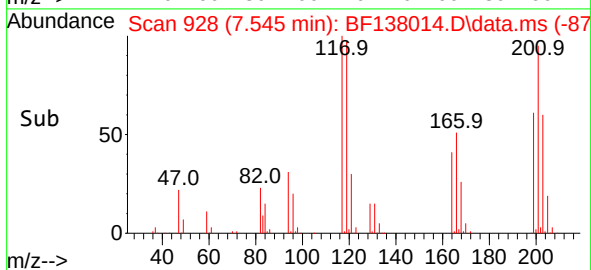
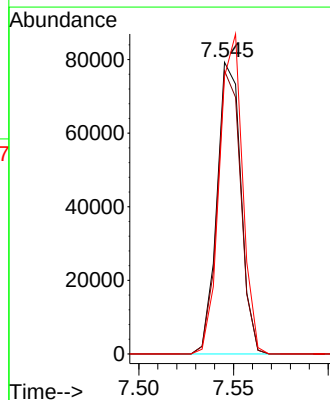
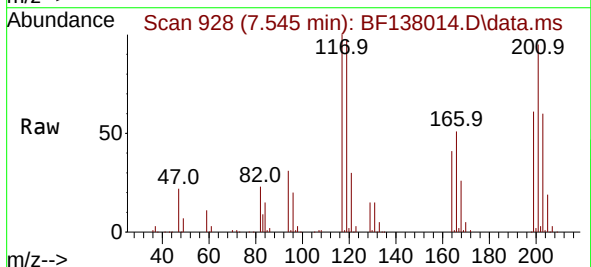
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

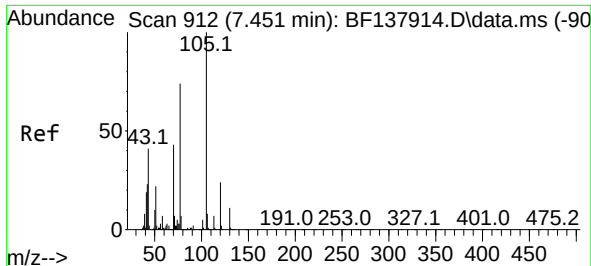
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 145746 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 111.6 | 90.1  | 135.1  |
| 77       | 43.7  | 34.3  | 51.5   |
| 79       | 44.7  | 34.8  | 52.2   |



#18  
Hexachloroethane  
Concen: 19.871 ng  
RT: 7.545 min Scan# 928  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 69471 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 97.1  | 76.8  | 115.2 |
| 201      | 95.1  | 82.7  | 124.1 |



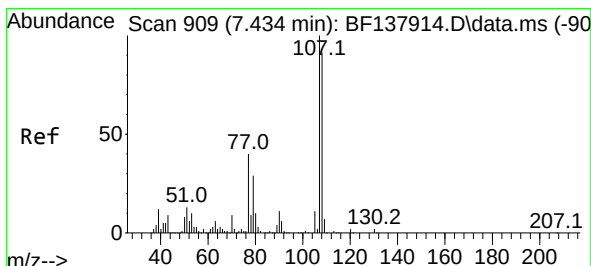
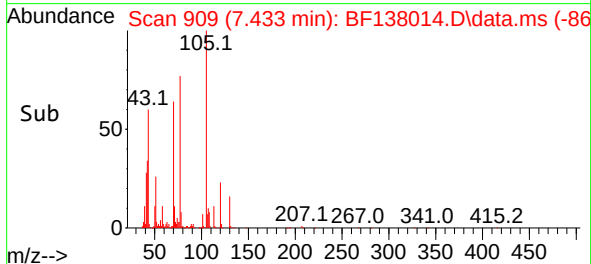
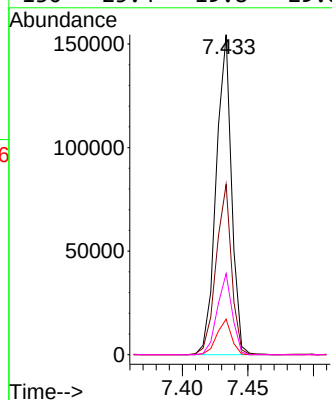
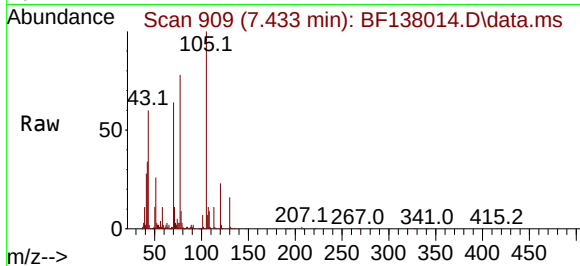


#19  
n-Nitroso-di-n-propylamine  
Concen: 22.039 ng  
RT: 7.433 min Scan# 909  
Delta R.T. -0.018 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

Tgt Ion: 70 Resp: 125386

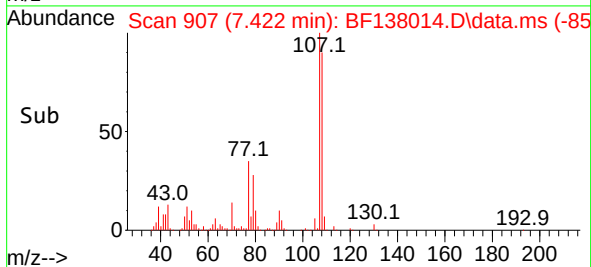
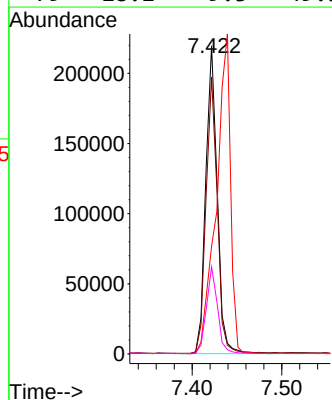
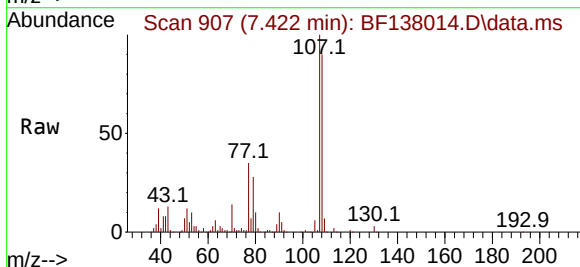
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 53.2  | 42.2  | 63.4  |
| 101 | 11.1  | 8.8   | 13.2  |
| 130 | 25.4  | 19.8  | 29.8  |

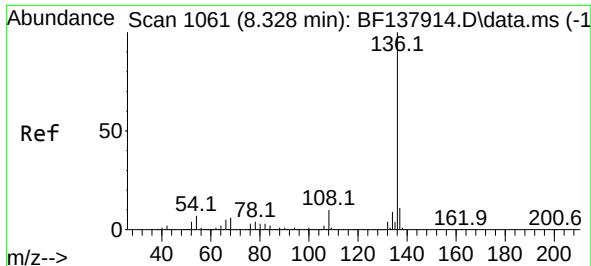


#20  
3+4-Methylphenols  
Concen: 20.991 ng  
RT: 7.422 min Scan# 907  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion: 107 Resp: 195099

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 107 | 100   |       |       |
| 108 | 89.9  | 70.8  | 110.8 |
| 77  | 35.0  | 20.2  | 60.2  |
| 79  | 28.2  | 9.3   | 49.3  |

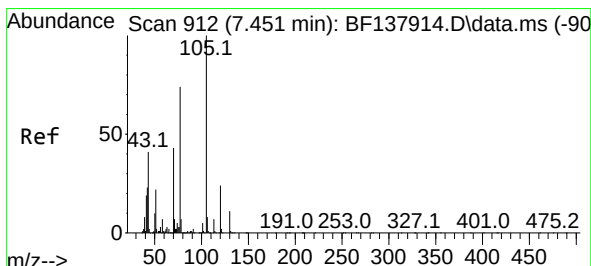
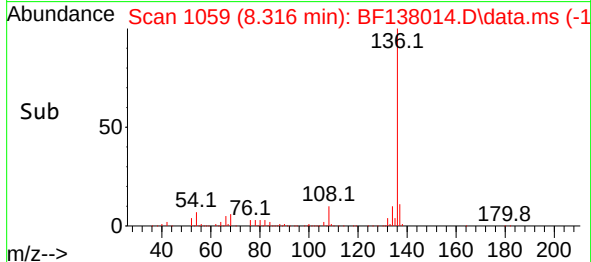
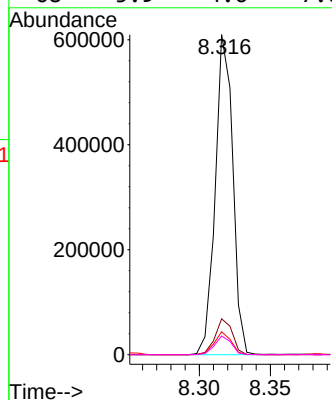
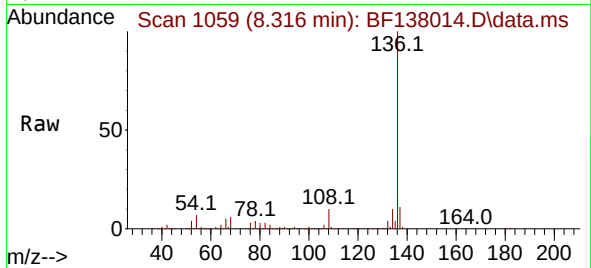




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.316 min Scan# 1061  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

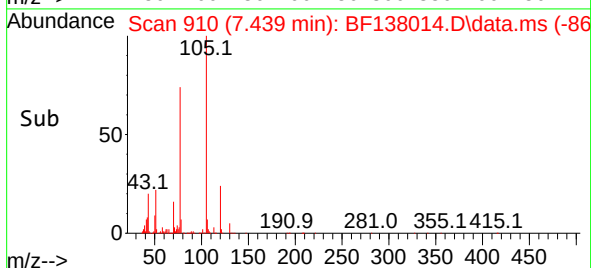
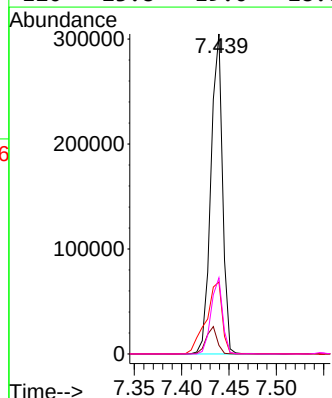
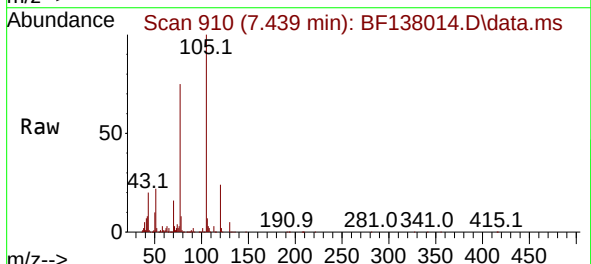
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

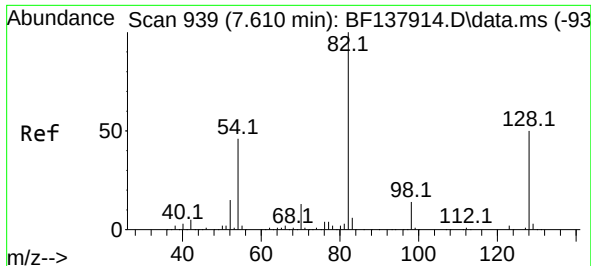
|             |              |
|-------------|--------------|
| Tgt Ion:136 | Resp: 523313 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.2    | 8.7 13.1     |
| 54 7.2      | 5.4 8.2      |
| 68 5.9      | 4.6 7.0      |



#22  
Acetophenone  
Concen: 22.199 ng  
RT: 7.439 min Scan# 910  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

|             |              |
|-------------|--------------|
| Tgt Ion:105 | Resp: 260247 |
| Ion Ratio   | Lower Upper  |
| 105 100     |              |
| 71 2.7      | 5.7 8.5#     |
| 51 22.5     | 17.8 26.8    |
| 120 23.8    | 19.0 28.6    |





#23

Nitrobenzene-d5

Concen: 28.141 ng

RT: 7.592 min Scan# 91

Delta R.T. -0.018 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

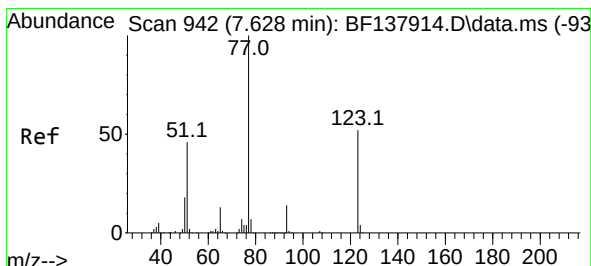
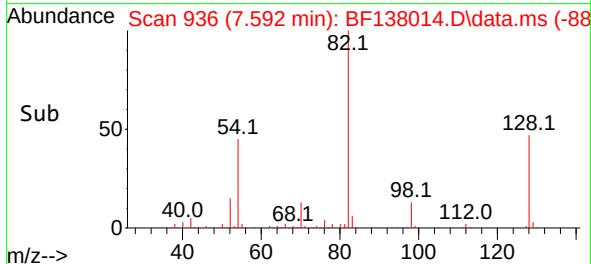
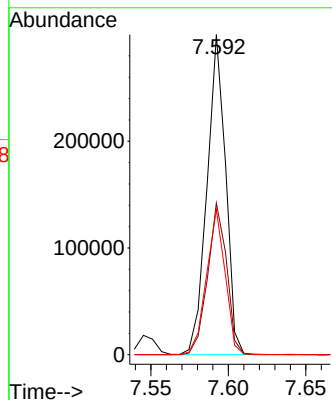
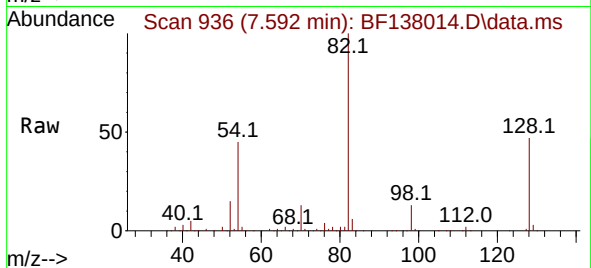
Tgt Ion: 82 Resp: 250236

Ion Ratio Lower Upper

82 100

128 47.4 40.3 60.5

54 45.3 36.8 55.2



#24

Nitrobenzene

Concen: 20.411 ng

RT: 7.610 min Scan# 939

Delta R.T. -0.018 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

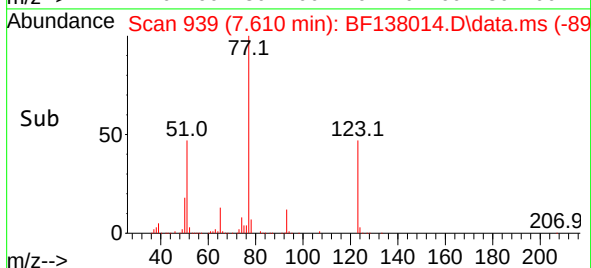
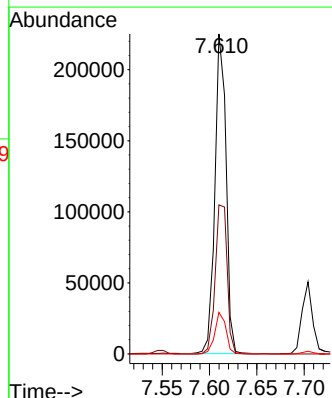
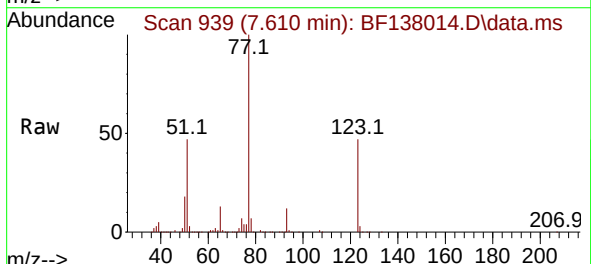
Tgt Ion: 77 Resp: 184124

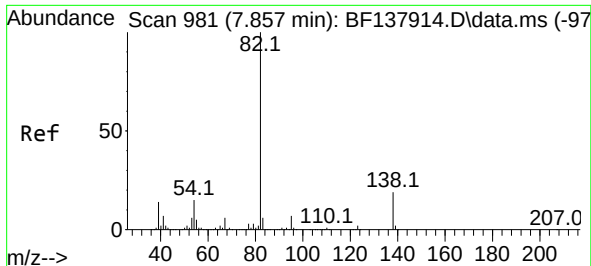
Ion Ratio Lower Upper

77 100

123 46.6 41.4 62.2

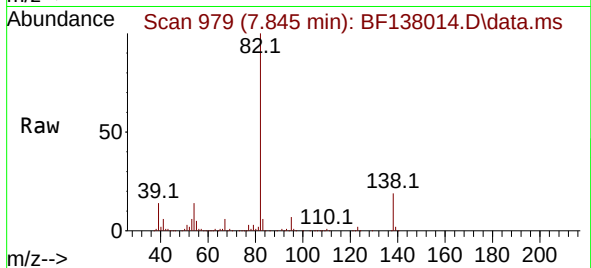
65 13.0 10.5 15.7



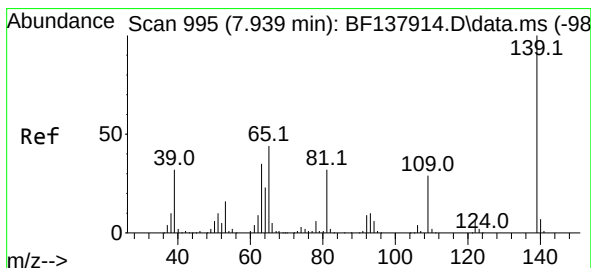
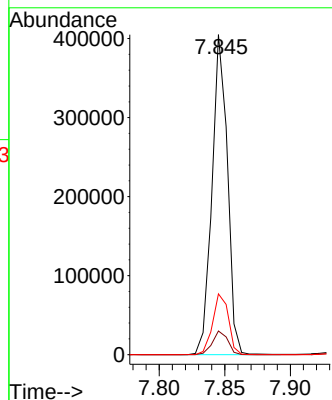
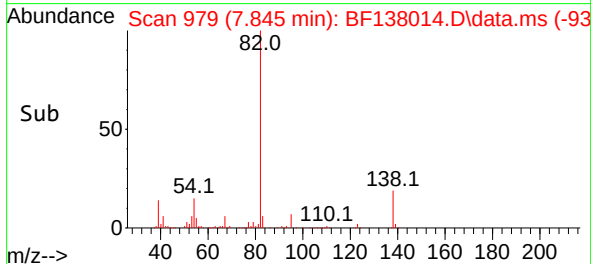


#25  
Isophorone  
Concen: 21.518 ng  
RT: 7.845 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

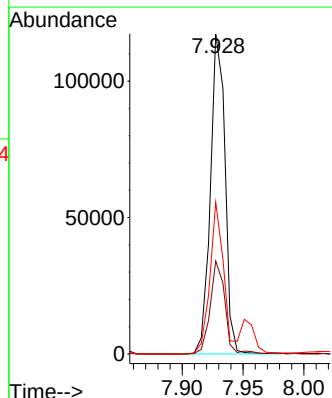
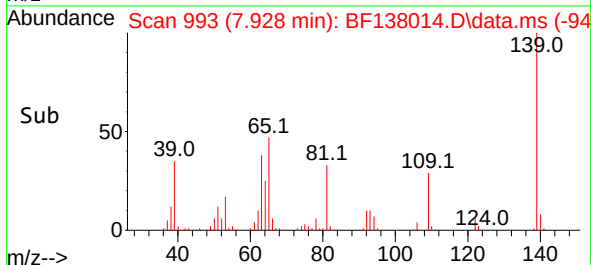
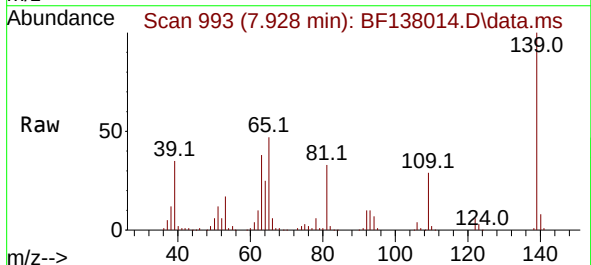


Tgt Ion: 82 Resp: 332089  
Ion Ratio Lower Upper  
82 100  
95 7.4 6.0 9.0  
138 19.0 15.0 22.4

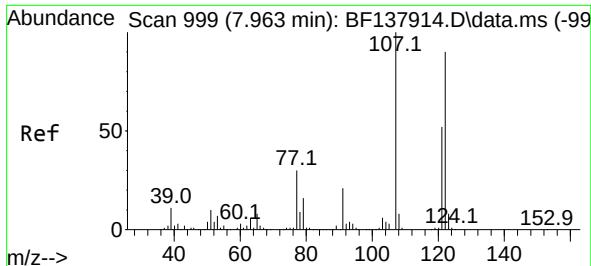


#26  
2-Nitrophenol  
Concen: 21.668 ng  
RT: 7.928 min Scan# 993  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:139 Resp: 98213  
Ion Ratio Lower Upper  
139 100  
109 29.1 22.8 34.2  
65 47.4 35.2 52.8







#27

2,4-Dimethylphenol

Concen: 22.811 ng

RT: 7.951 min Scan# 99

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

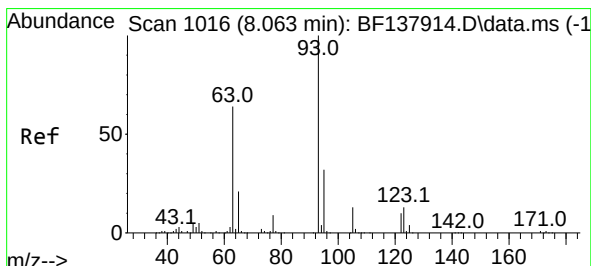
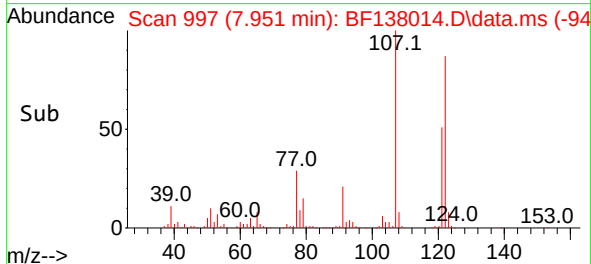
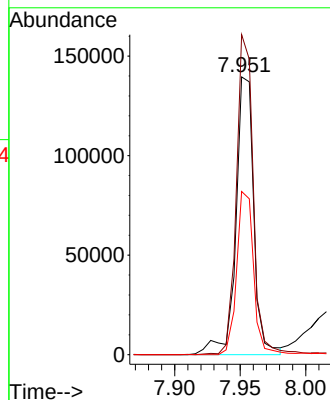
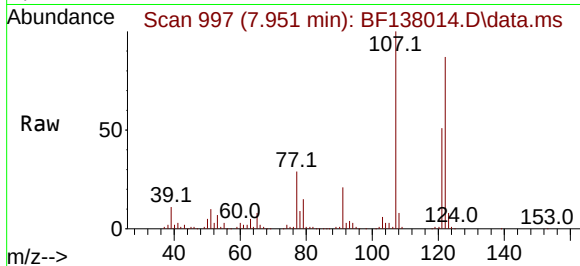
Tgt Ion:122 Resp: 133119

Ion Ratio Lower Upper

122 100

107 115.2 89.0 133.4

121 58.7 46.2 69.4



#28

bis(2-Chloroethoxy)methane

Concen: 22.028 ng

RT: 8.057 min Scan# 1015

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

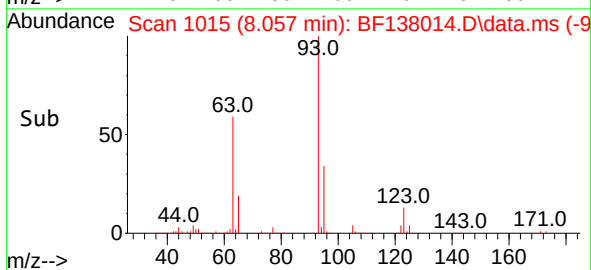
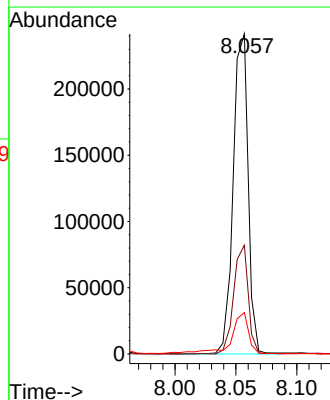
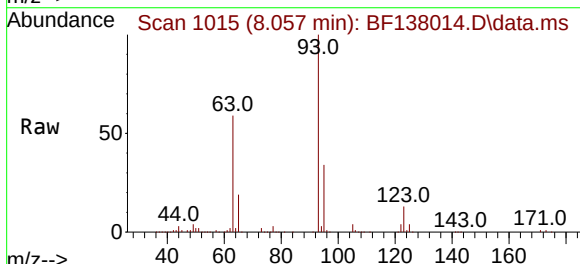
Tgt Ion: 93 Resp: 206043

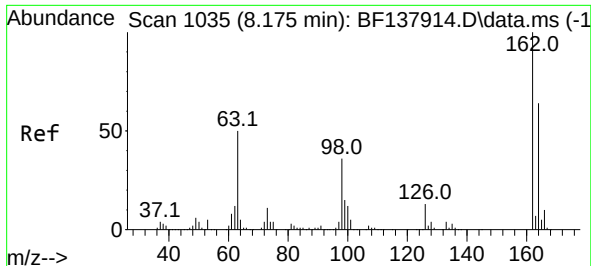
Ion Ratio Lower Upper

93 100

95 34.0 25.9 38.9

123 13.0 10.4 15.6





#29

2,4-Dichlorophenol

Concen: 20.638 ng

RT: 8.169 min Scan# 1034

Delta R.T. -0.006 min

Lab File: BF138014.D

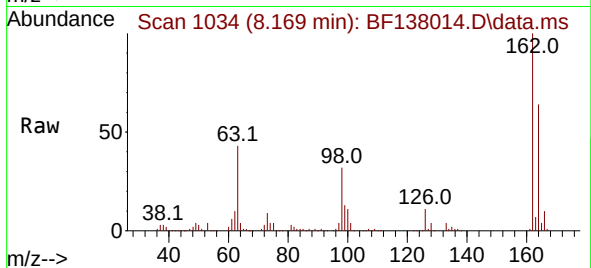
Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS



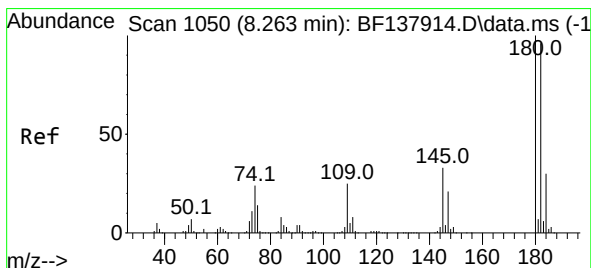
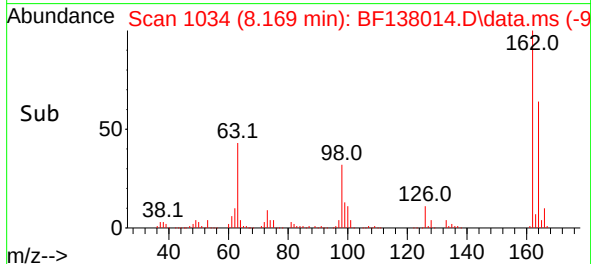
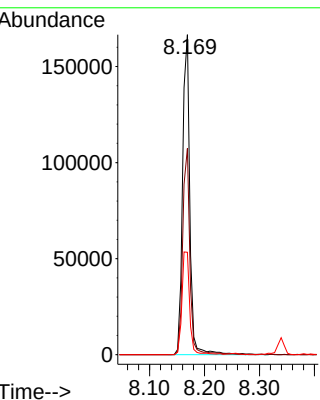
Tgt Ion:162 Resp: 151451

Ion Ratio Lower Upper

162 100

164 64.5 44.3 84.3

98 32.0 15.8 55.8



#30

1,2,4-Trichlorobenzene

Concen: 20.439 ng

RT: 8.257 min Scan# 1049

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

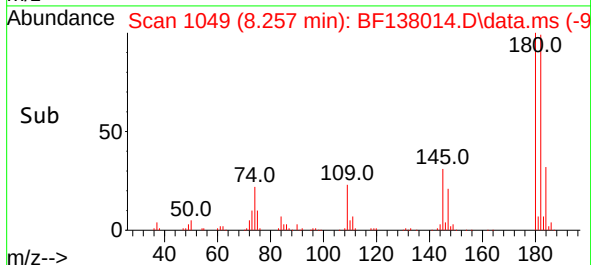
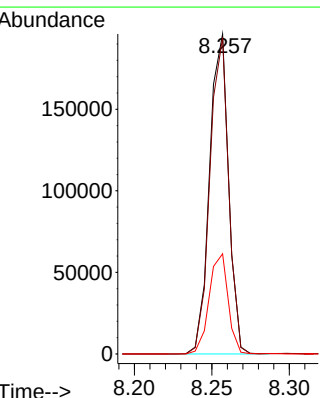
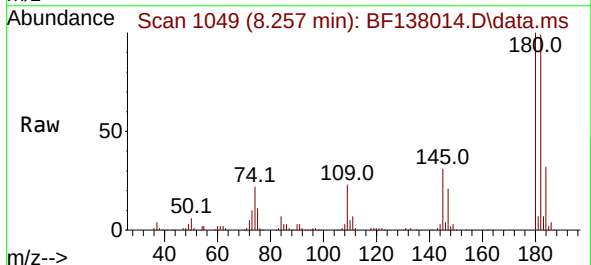
Tgt Ion:180 Resp: 167466

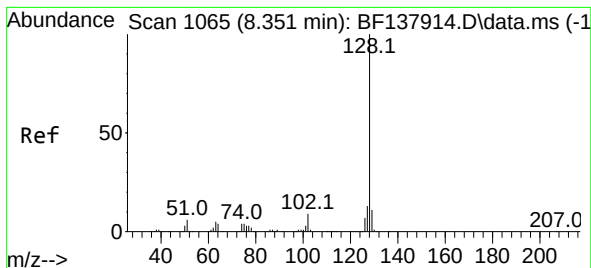
Ion Ratio Lower Upper

180 100

182 99.0 76.5 114.7

145 31.3 26.2 39.2





#31

Naphthalene

Concen: 20.887 ng

RT: 8.339 min Scan# 1063

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

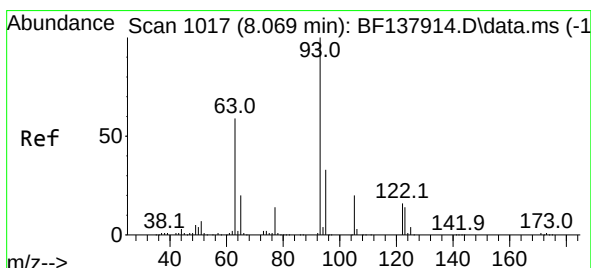
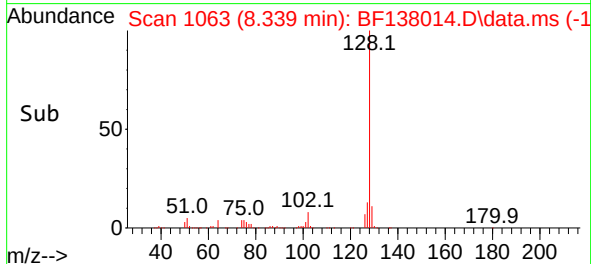
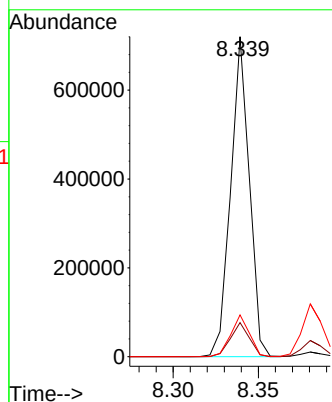
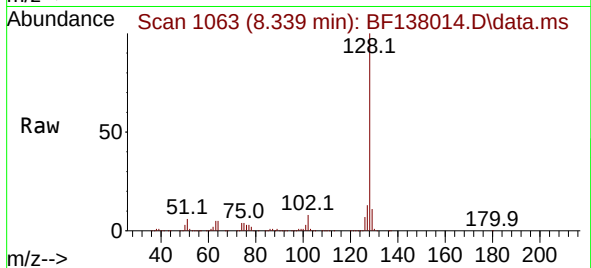
Tgt Ion:128 Resp: 549580

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 13.0 10.6 16.0



#32

Benzoic acid

Concen: 16.351 ng

RT: 8.033 min Scan# 1011

Delta R.T. -0.036 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

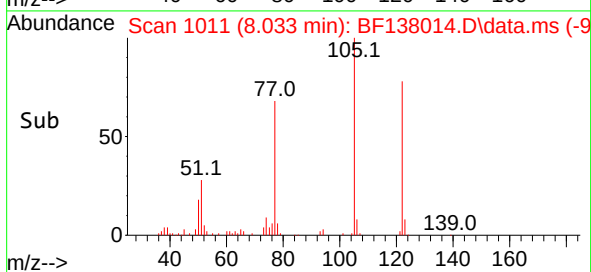
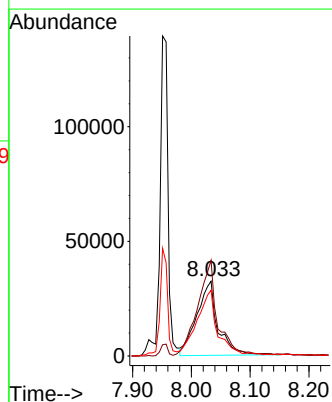
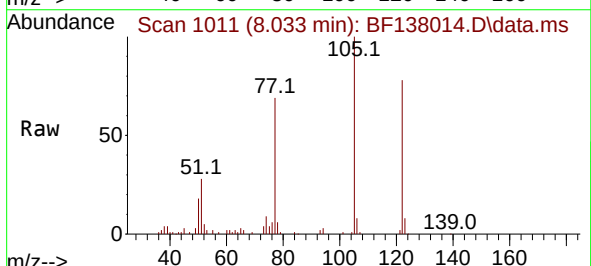
Tgt Ion:122 Resp: 80663

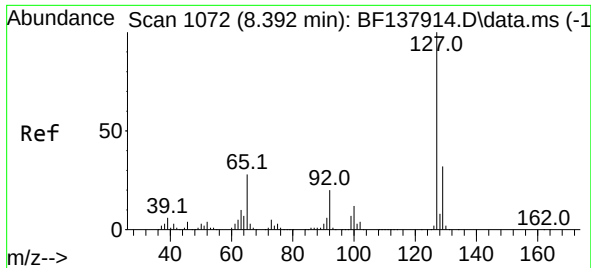
Ion Ratio Lower Upper

122 100

105 128.2 103.8 143.8

77 88.0 68.4 108.4

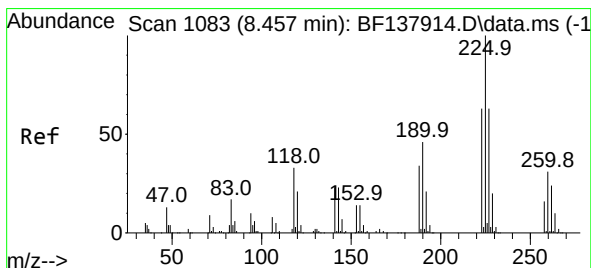
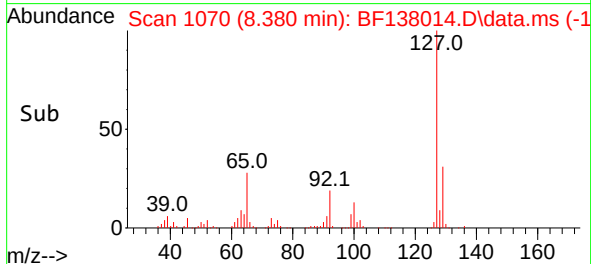
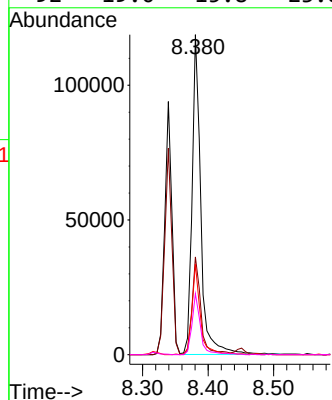
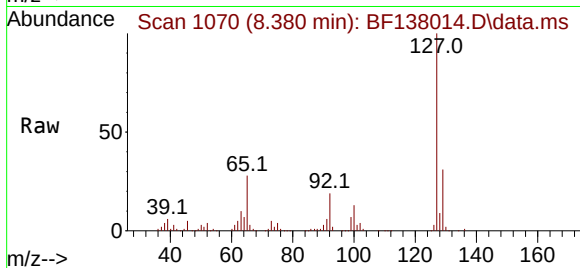




#33  
4-Chloroaniline  
Concen: 12.784 ng  
RT: 8.380 min Scan# 1072  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

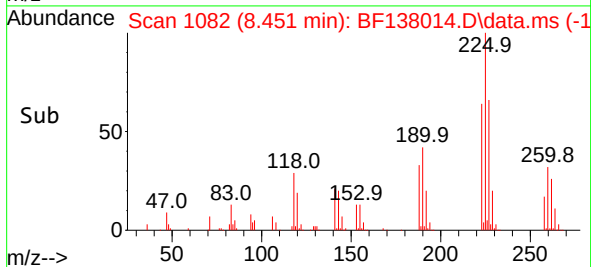
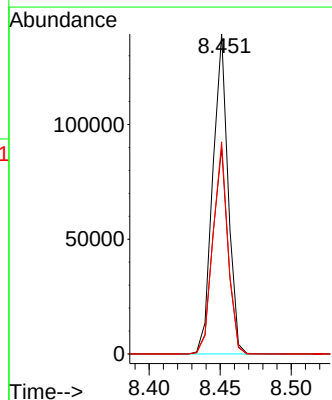
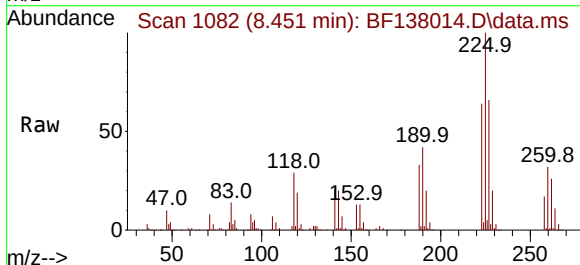
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

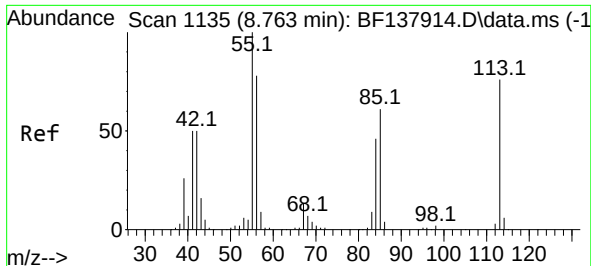
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 110273 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 30.6  | 25.4  | 38.2   |
| 65       | 28.4  | 22.0  | 33.0   |
| 92       | 19.0  | 15.8  | 23.8   |



#34  
Hexachlorobutadiene  
Concen: 20.144 ng  
RT: 8.451 min Scan# 1082  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 104471 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 64.3  | 50.0  | 75.0   |
| 227      | 66.3  | 50.2  | 75.4   |

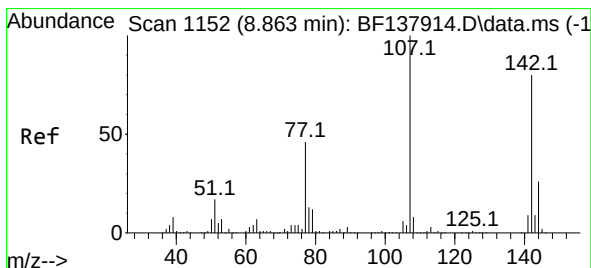
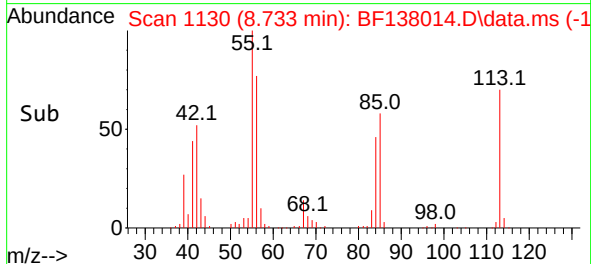
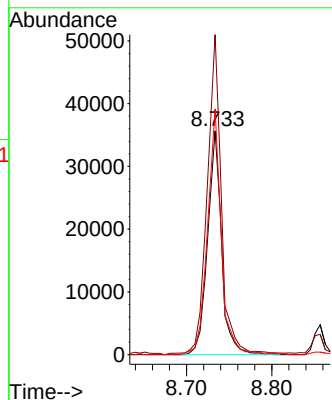
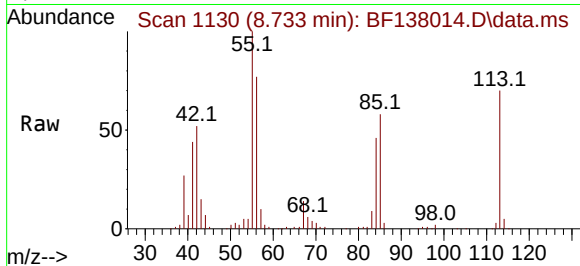




#35  
 Caprolactam  
 Concen: 18.980 ng  
 RT: 8.733 min Scan# 1130  
 Delta R.T. -0.030 min  
 Lab File: BF138014.D  
 Acq: 22 May 2024 19:55

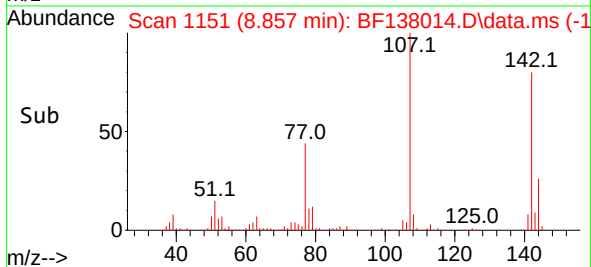
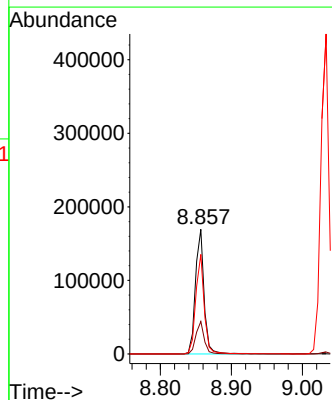
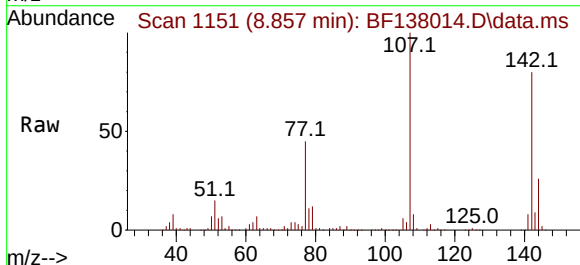
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-05212024MS

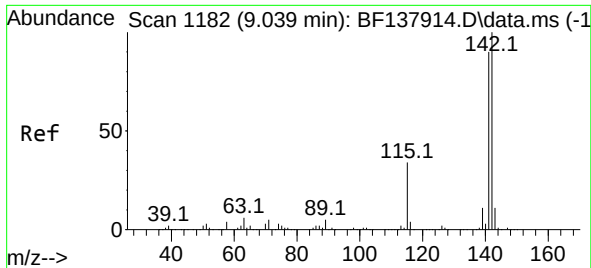
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 40353 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 55       | 143.0 | 112.3 | 152.3 |
| 56       | 109.8 | 82.7  | 122.7 |



#36  
 4-Chloro-3-methylphenol  
 Concen: 19.264 ng  
 RT: 8.857 min Scan# 1151  
 Delta R.T. -0.006 min  
 Lab File: BF138014.D  
 Acq: 22 May 2024 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 143806 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 144      | 26.0  | 20.7  | 31.1   |
| 142      | 79.9  | 64.0  | 96.0   |

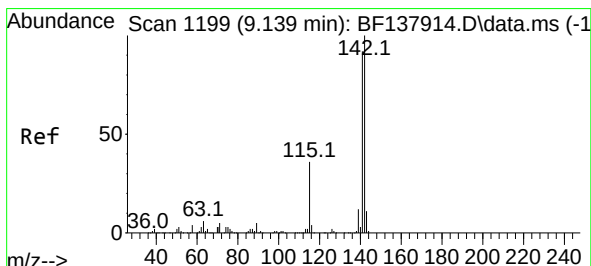
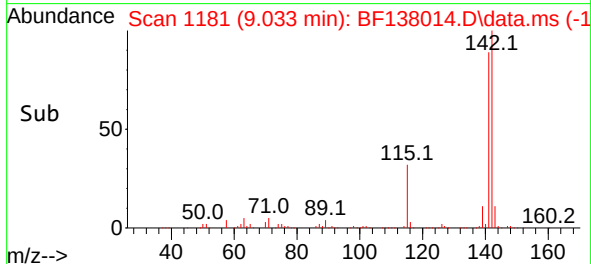
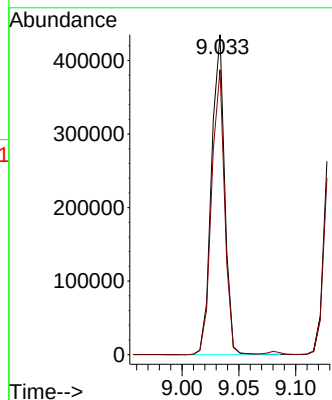
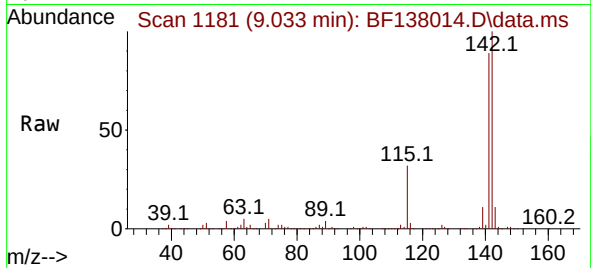




#37  
2-Methylnaphthalene  
Concen: 20.647 ng  
RT: 9.033 min Scan# 1182  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

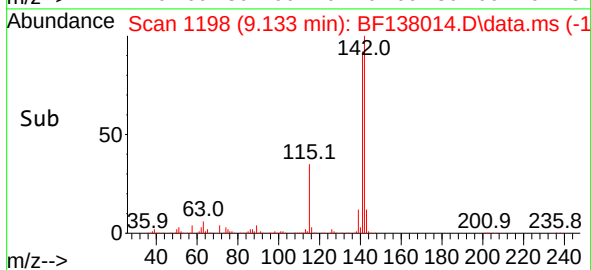
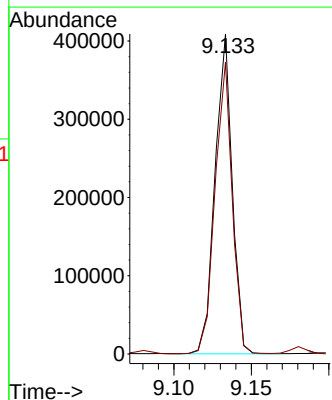
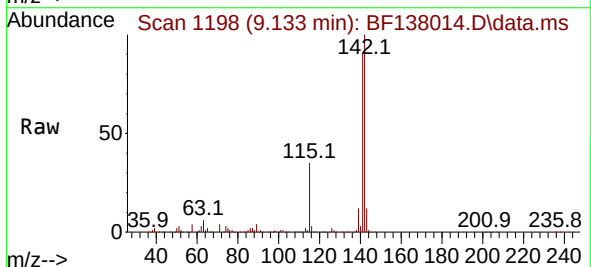
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

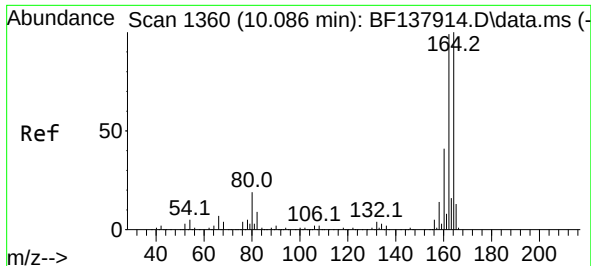
Tgt Ion:142 Resp: 349211  
Ion Ratio Lower Upper  
142 100  
141 89.0 72.0 108.0



#38  
1-Methylnaphthalene  
Concen: 18.946 ng  
RT: 9.133 min Scan# 1198  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:142 Resp: 315034  
Ion Ratio Lower Upper  
142 100  
141 91.2 73.7 110.5

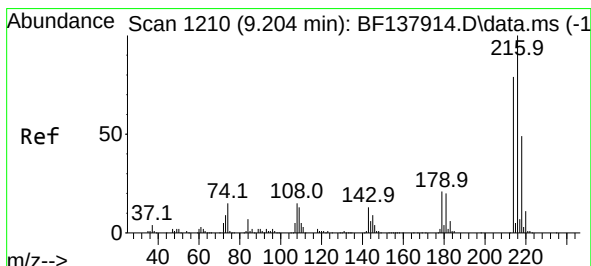
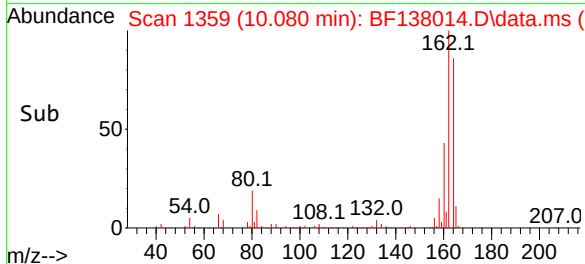
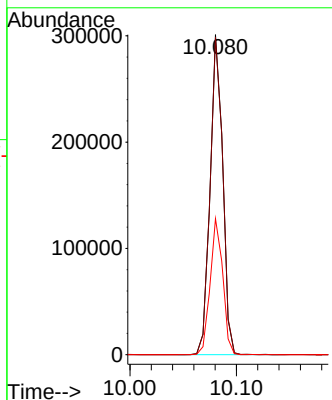
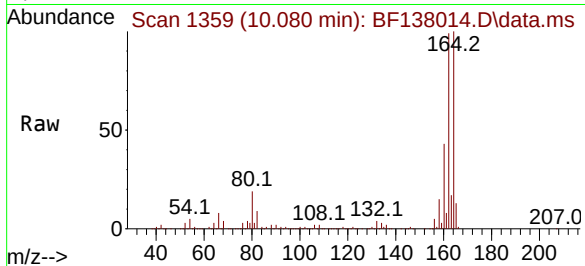




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.080 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

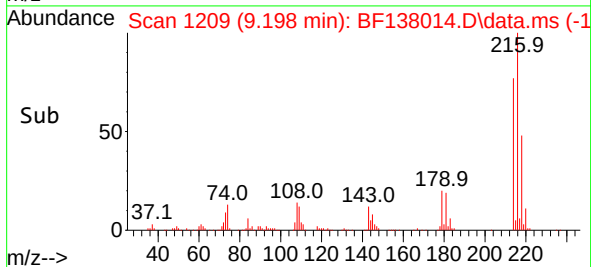
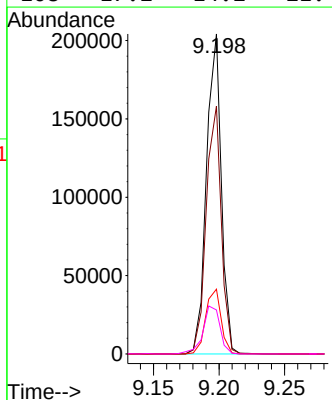
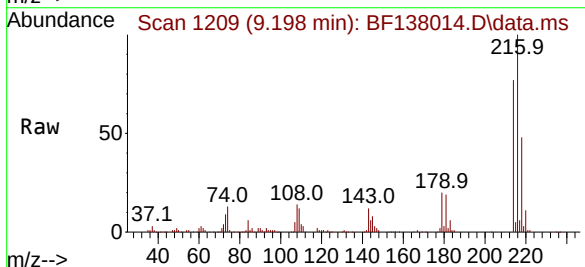
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

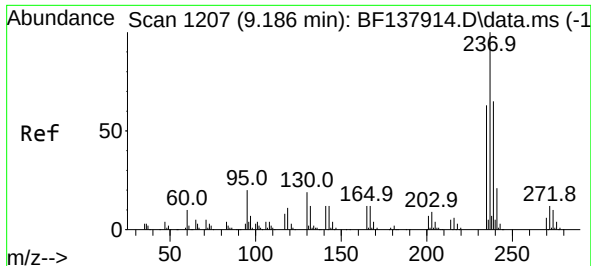
Tgt Ion:164 Resp: 246560  
Ion Ratio Lower Upper  
164 100  
162 99.1 79.4 119.2  
160 42.5 33.1 49.7



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 24.009 ng  
RT: 9.198 min Scan# 1209  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

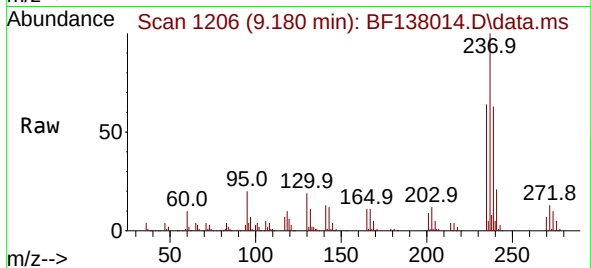
Tgt Ion:216 Resp: 160932  
Ion Ratio Lower Upper  
216 100  
214 78.9 63.4 95.2  
179 21.0 17.0 25.4  
108 17.2 14.2 21.4



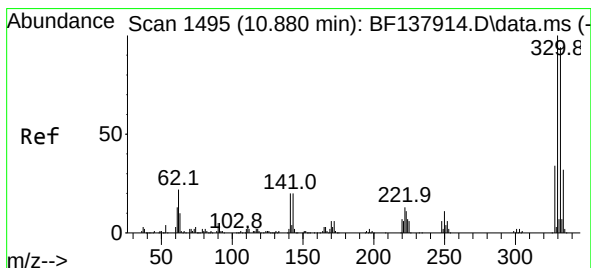
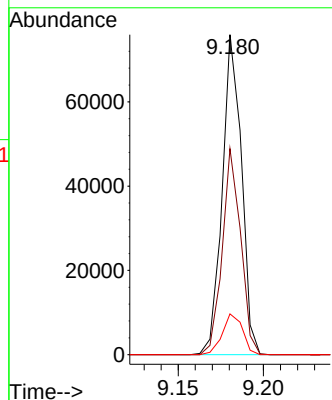
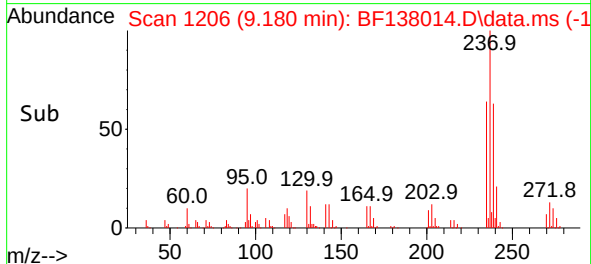


#41  
Hexachlorocyclopentadiene  
Concen: 23.367 ng  
RT: 9.180 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

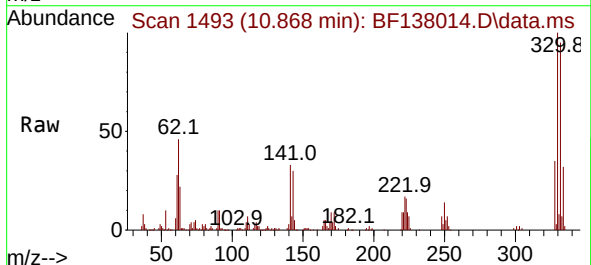
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS



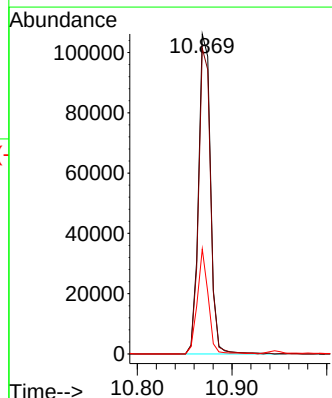
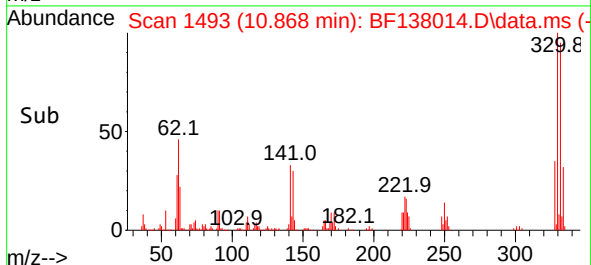
Tgt Ion:237 Resp: 59515  
Ion Ratio Lower Upper  
237 100  
235 64.4 42.8 82.8  
272 12.8 0.0 32.0



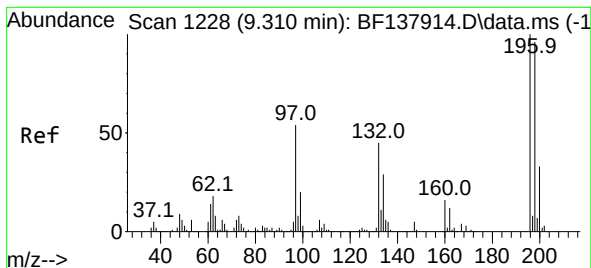
#42  
2,4,6-Tribromophenol  
Concen: 37.822 ng  
RT: 10.868 min Scan# 1493  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55



Tgt Ion:330 Resp: 94029  
Ion Ratio Lower Upper  
330 100  
332 95.2 75.8 113.8  
141 29.9 23.8 35.6







#43

2,4,6-Trichlorophenol

Concen: 22.642 ng

RT: 9.304 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

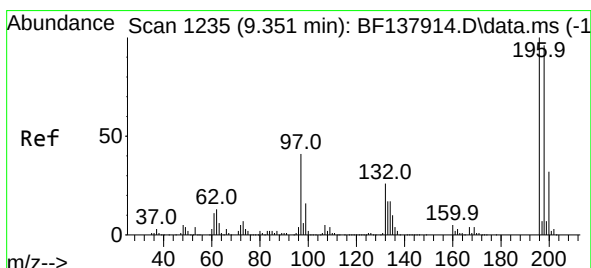
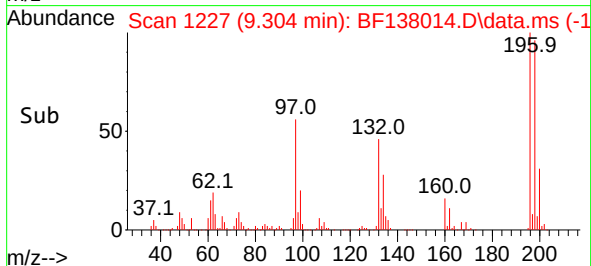
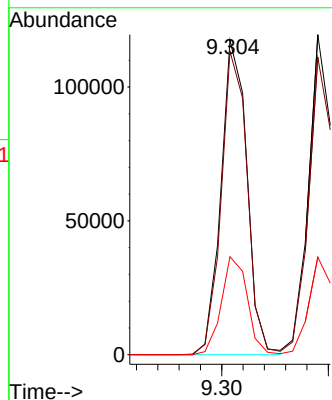
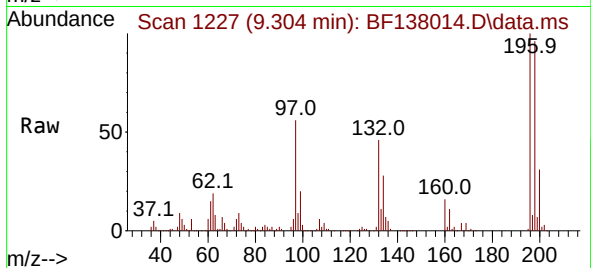
Tgt Ion:196 Resp: 99510

Ion Ratio Lower Upper

196 100

198 96.4 77.0 115.4

200 31.1 26.2 39.2



#44

2,4,5-Trichlorophenol

Concen: 20.547 ng

RT: 9.345 min Scan# 1234

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Tgt Ion:196 Resp: 98806

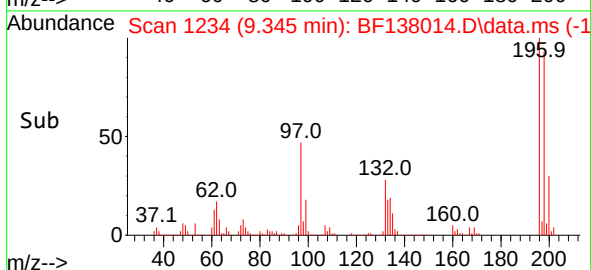
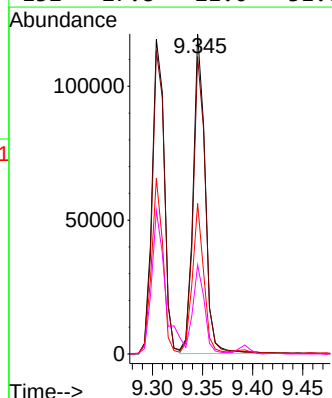
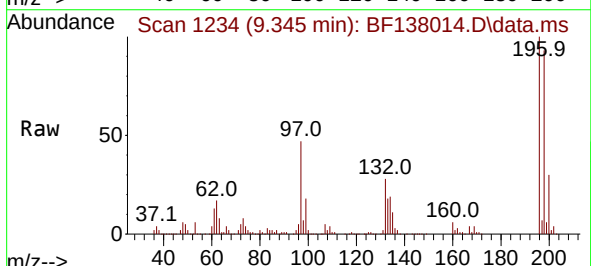
Ion Ratio Lower Upper

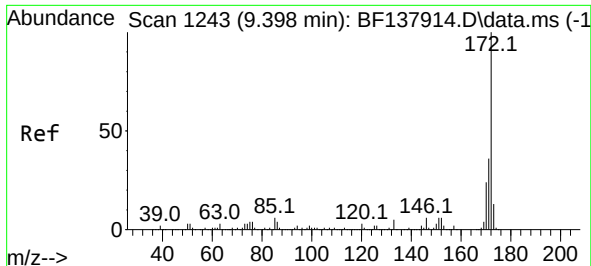
196 100

198 92.9 77.4 116.0

97 47.0 32.9 49.3

132 27.8 21.0 31.6





#45

2-Fluorobiphenyl

Concen: 32.965 ng

RT: 9.392 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

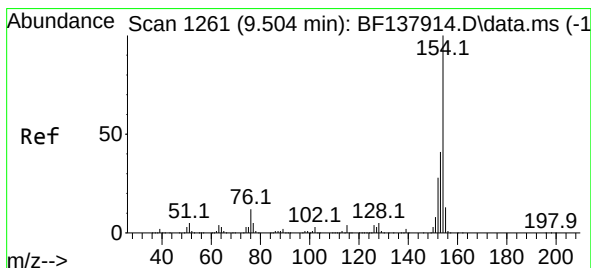
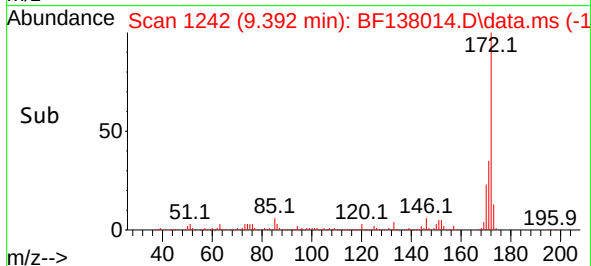
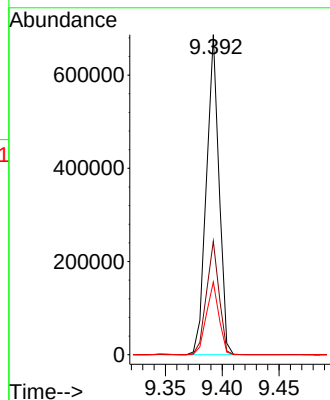
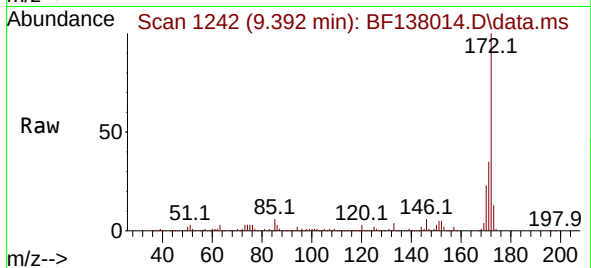
Tgt Ion:172 Resp: 527643

Ion Ratio Lower Upper

172 100

171 35.5 28.9 43.3

170 22.7 18.9 28.3



#46

1,1'-Biphenyl

Concen: 23.895 ng

RT: 9.498 min Scan# 1260

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

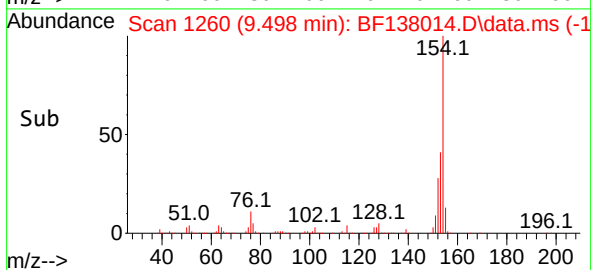
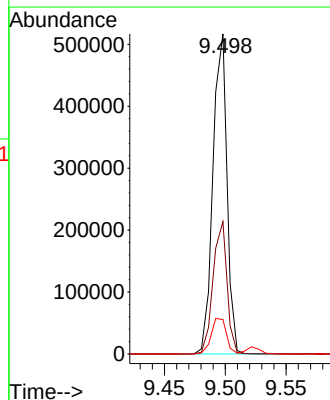
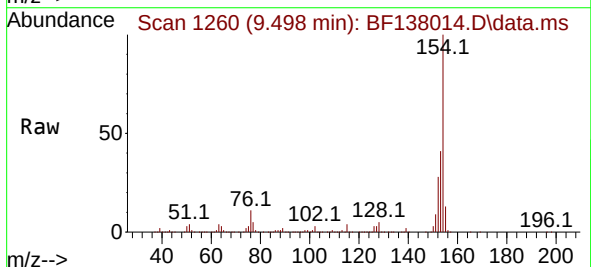
Tgt Ion:154 Resp: 413233

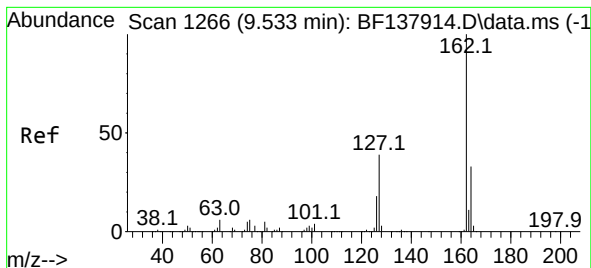
Ion Ratio Lower Upper

154 100

153 41.3 21.3 61.3

76 10.7 0.0 31.9





#47

2-Chloronaphthalene

Concen: 22.062 ng

RT: 9.522 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

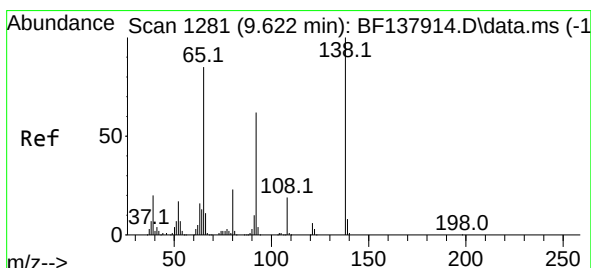
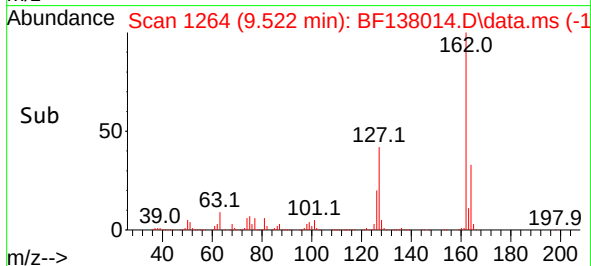
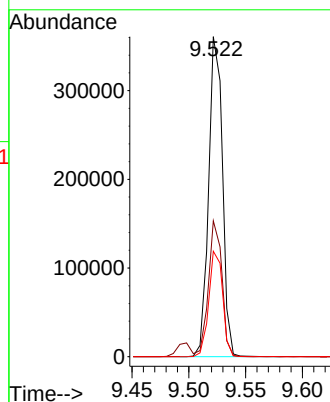
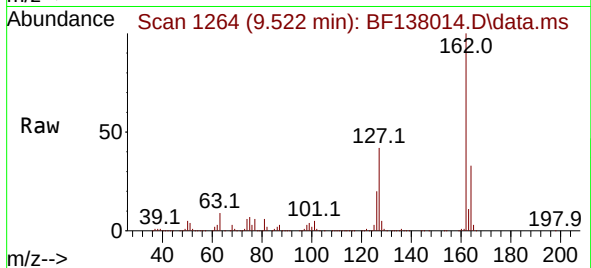
Tgt Ion:162 Resp: 304559

Ion Ratio Lower Upper

162 100

127 42.4 32.0 48.0

164 33.0 26.2 39.4



#48

2-Nitroaniline

Concen: 21.420 ng

RT: 9.616 min Scan# 1280

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

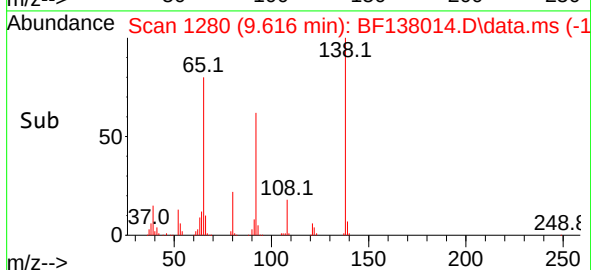
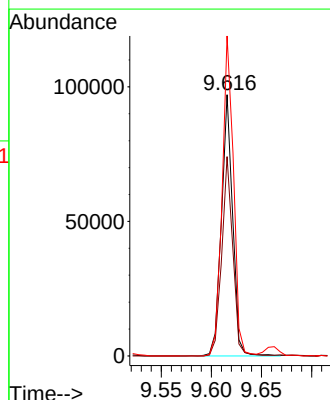
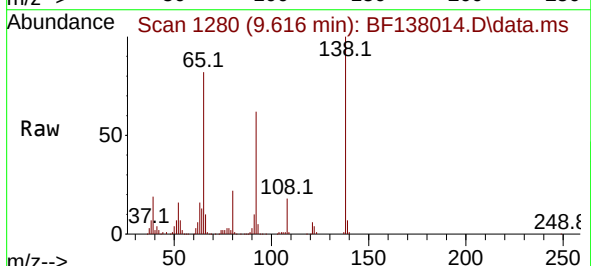
Tgt Ion: 65 Resp: 75719

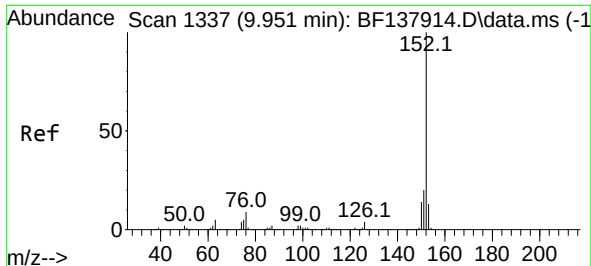
Ion Ratio Lower Upper

65 100

92 76.3 58.6 88.0

138 122.4 94.1 141.1





#49

Acenaphthylene

Concen: 23.437 ng

RT: 9.945 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

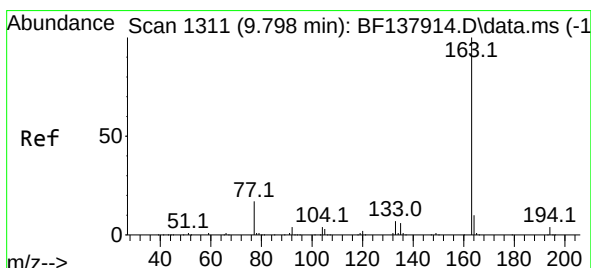
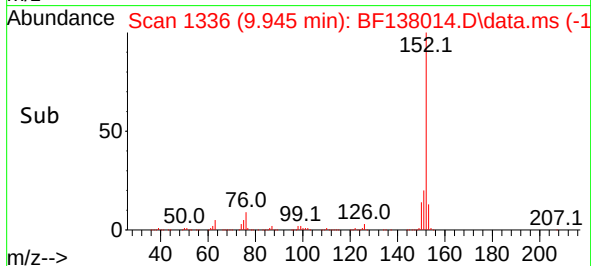
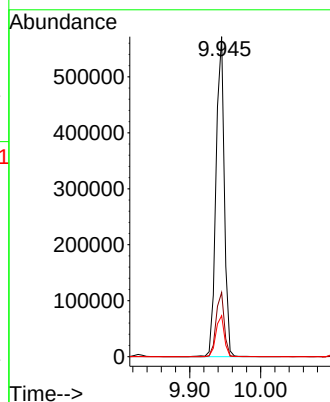
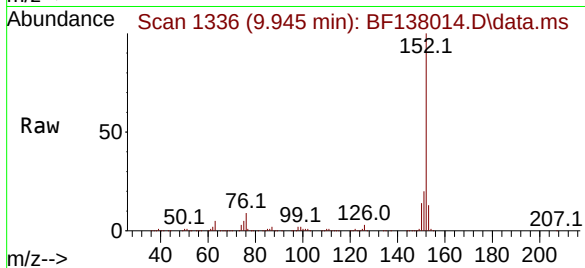
Tgt Ion:152 Resp: 465213

Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.8

153 12.8 10.2 15.4



#50

Dimethylphthalate

Concen: 23.728 ng

RT: 9.786 min Scan# 1309

Delta R.T. -0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

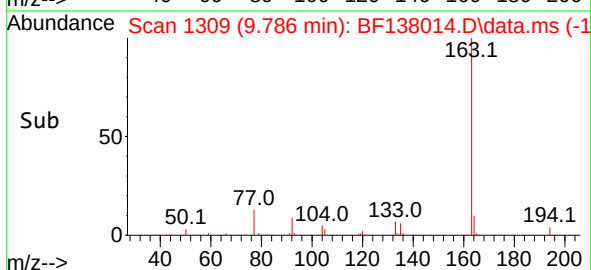
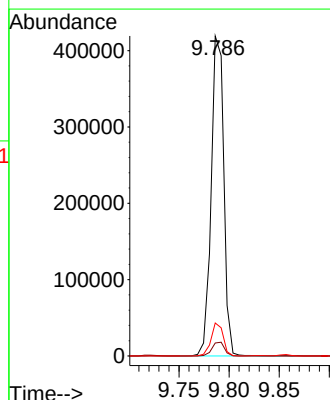
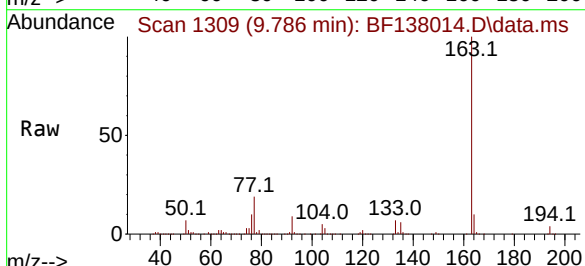
Tgt Ion:163 Resp: 366857

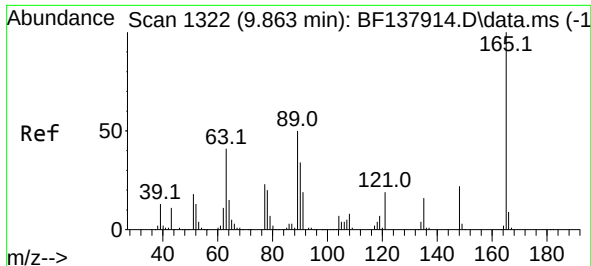
Ion Ratio Lower Upper

163 100

194 4.1 3.4 5.0

164 10.3 8.0 12.0

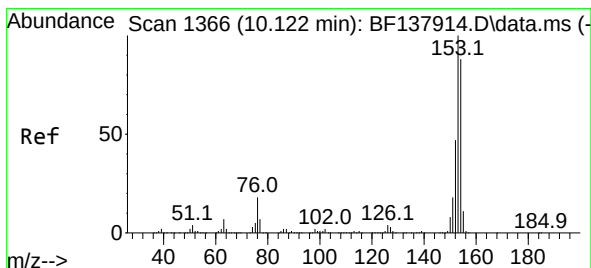
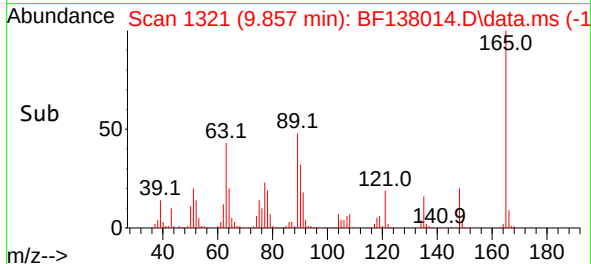
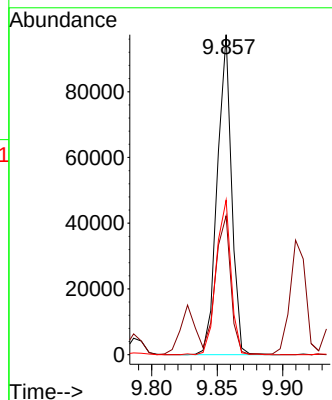
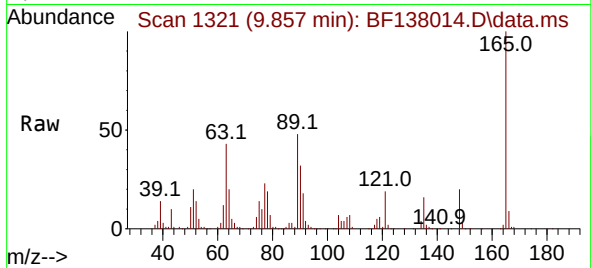




#51  
2,6-Dinitrotoluene  
Concen: 20.766 ng  
RT: 9.857 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

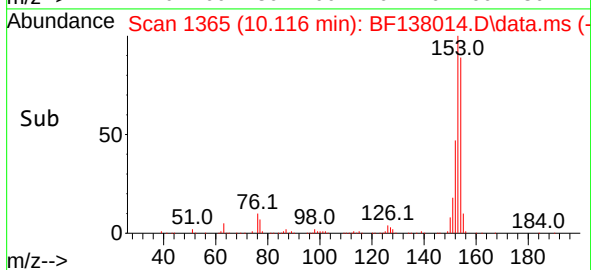
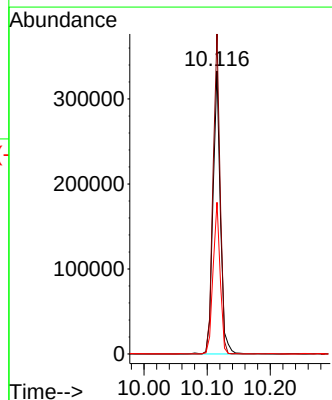
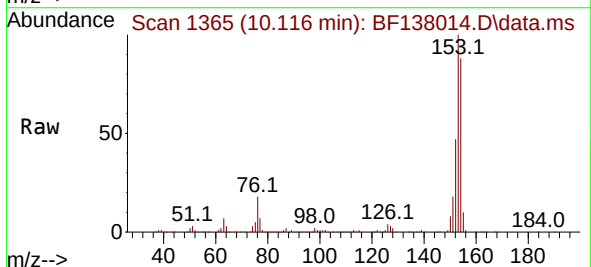
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

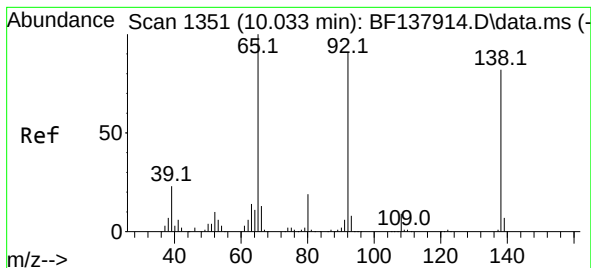
Tgt Ion:165 Resp: 73690  
Ion Ratio Lower Upper  
165 100  
63 43.4 38.9 58.3  
89 48.3 40.4 60.6



#52  
Acenaphthene  
Concen: 20.790 ng  
RT: 10.116 min Scan# 1365  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:154 Resp: 272746  
Ion Ratio Lower Upper  
154 100  
153 113.1 90.4 135.6  
152 53.6 42.3 63.5





#53

3-Nitroaniline

Concen: 16.609 ng

RT: 10.027 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

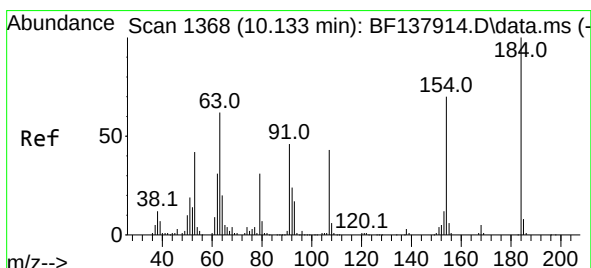
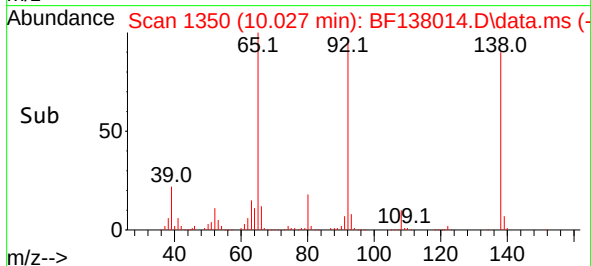
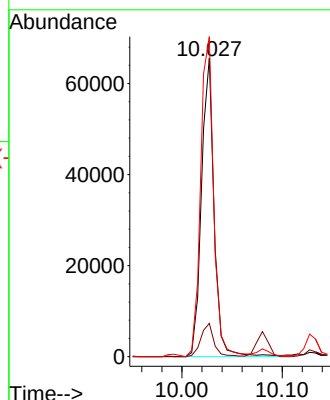
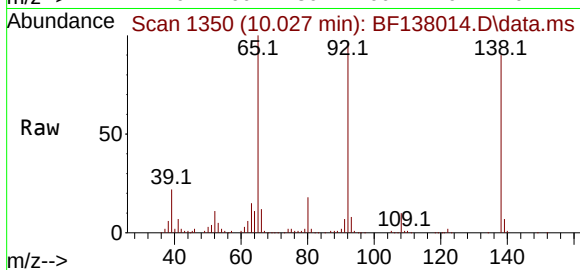
Tgt Ion:138 Resp: 57619

Ion Ratio Lower Upper

138 100

108 11.1 8.8 13.2

92 107.1 88.6 133.0



#54

2,4-Dinitrophenol

Concen: 15.888 ng

RT: 10.133 min Scan# 1368

Delta R.T. 0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

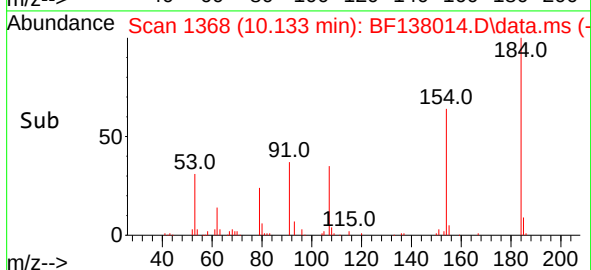
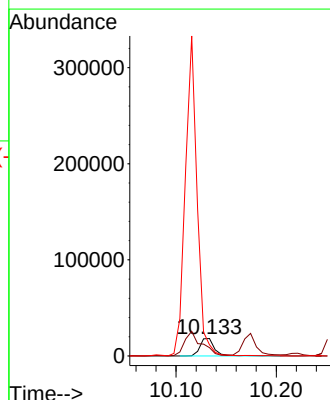
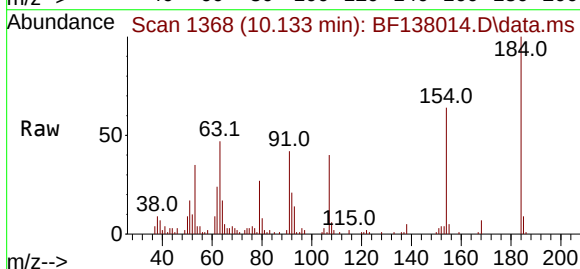
Tgt Ion:184 Resp: 18732

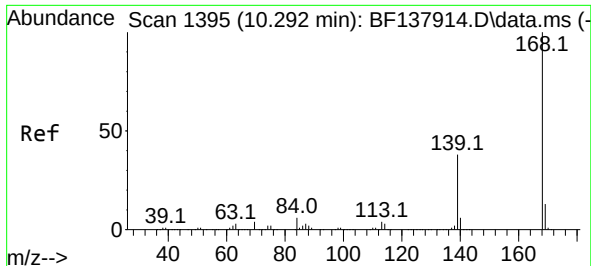
Ion Ratio Lower Upper

184 100

63 47.4 50.4 75.6#

154 63.8 63.7 95.5

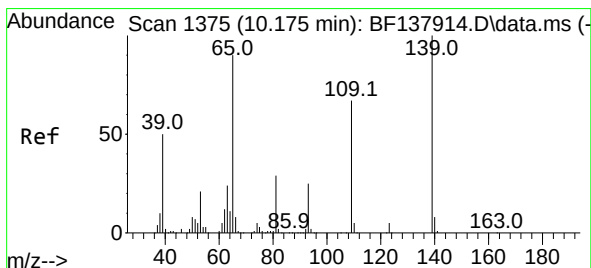
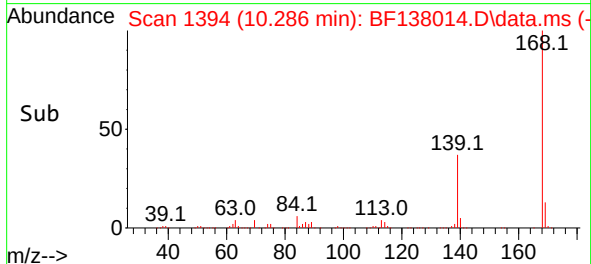
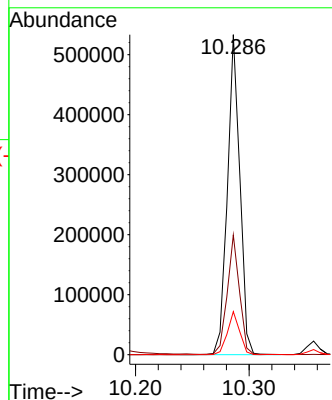
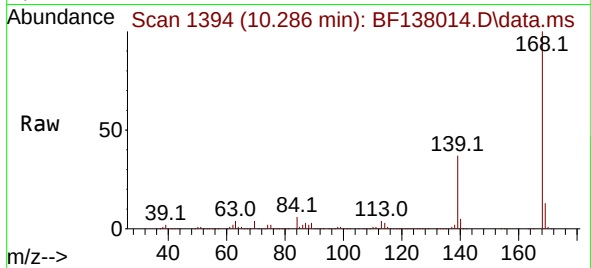




#55  
Dibenzofuran  
Concen: 21.263 ng  
RT: 10.286 min Scan# 1394  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

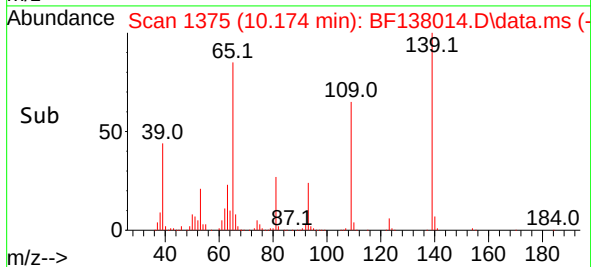
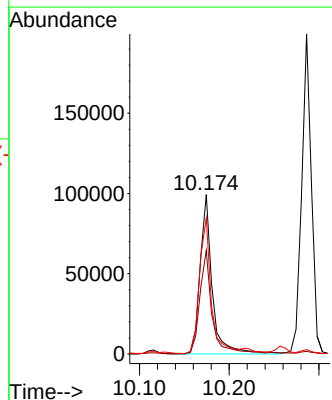
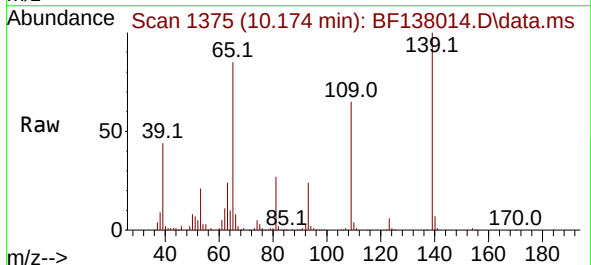
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

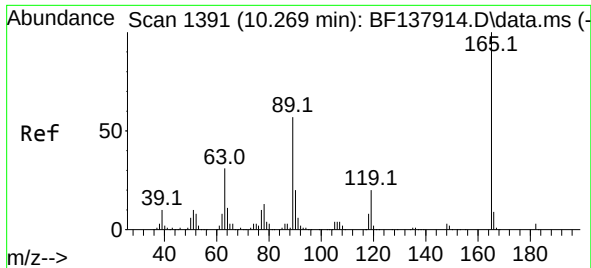
Tgt Ion:168 Resp: 405969  
Ion Ratio Lower Upper  
168 100  
139 37.4 30.4 45.6  
169 13.5 10.5 15.7



#56  
4-Nitrophenol  
Concen: 37.592 ng  
RT: 10.174 min Scan# 1375  
Delta R.T. -0.000 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:139 Resp: 93666  
Ion Ratio Lower Upper  
139 100  
109 65.0 46.5 86.5  
65 85.2 70.4 110.4

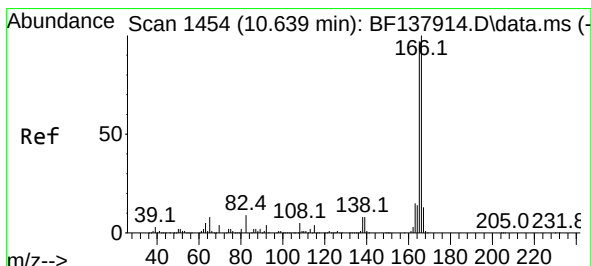
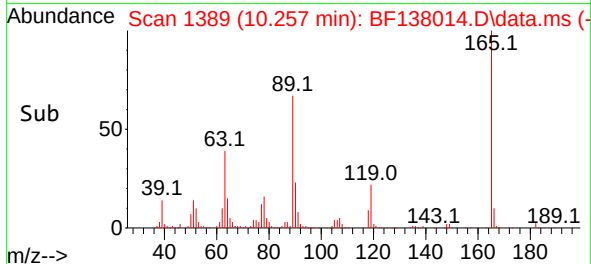
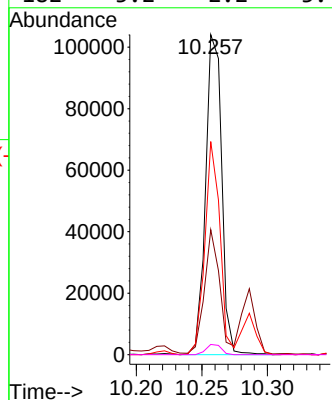
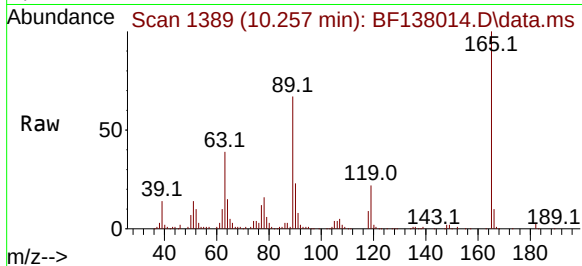




#57  
2,4-Dinitrotoluene  
Concen: 19.483 ng  
RT: 10.257 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

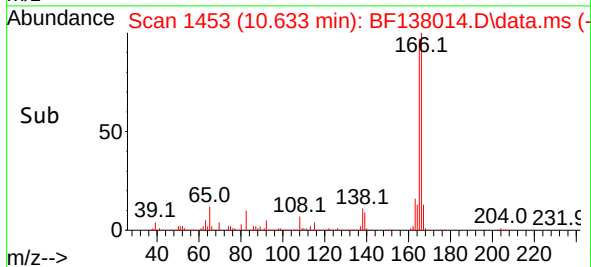
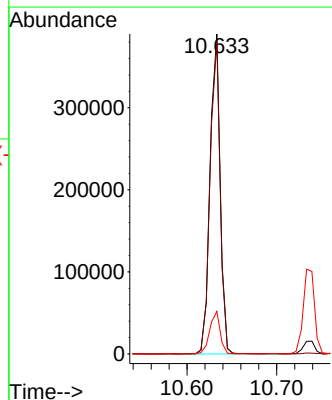
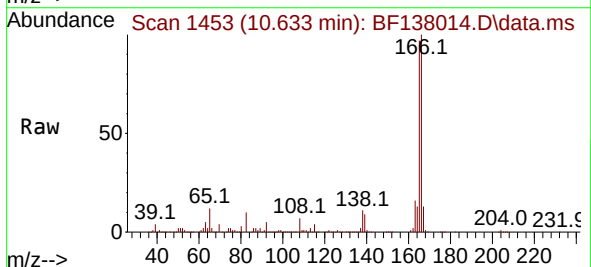
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

Tgt Ion:165 Resp: 89380  
Ion Ratio Lower Upper  
165 100  
63 39.1 25.3 37.9#  
89 66.6 45.9 68.9  
182 3.2 2.2 3.4

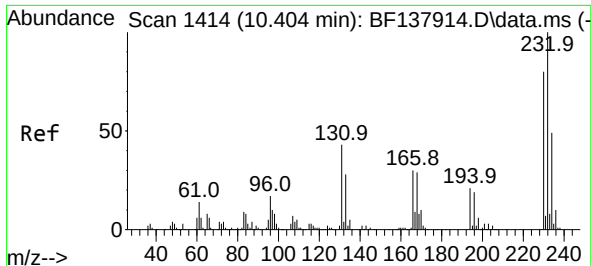


#58  
Fluorene  
Concen: 20.296 ng  
RT: 10.633 min Scan# 1453  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:166 Resp: 306506  
Ion Ratio Lower Upper  
166 100  
165 97.5 77.8 116.8  
167 13.3 10.4 15.6







#59

2,3,4,6-Tetrachlorophenol

Concen: 19.698 ng

RT: 10.398 min Scan# 1413

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

Tgt Ion:232 Resp: 74414

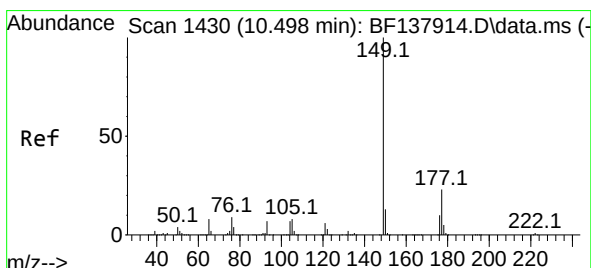
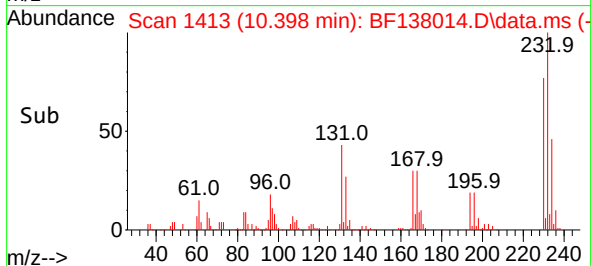
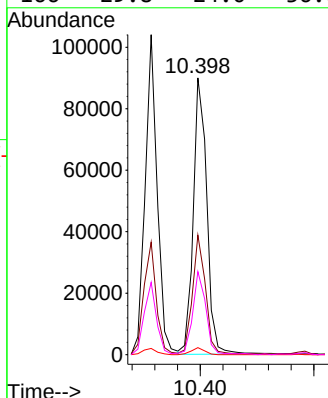
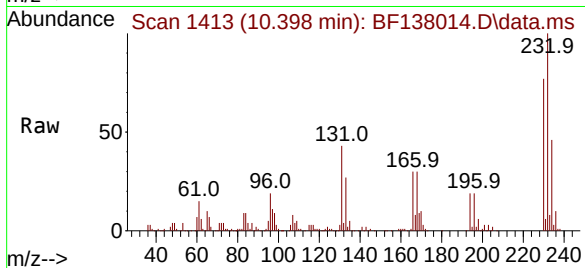
Ion Ratio Lower Upper

232 100

131 41.1 34.4 51.6

130 2.5 1.7 2.5

166 29.8 24.0 36.0



#60

Diethylphthalate

Concen: 22.470 ng

RT: 10.492 min Scan# 1429

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

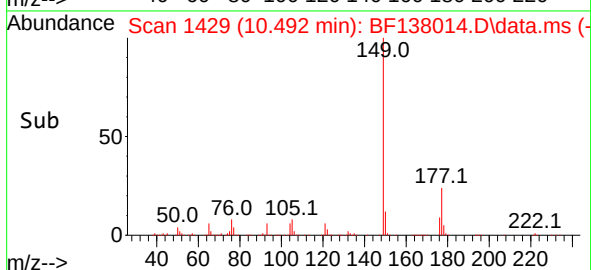
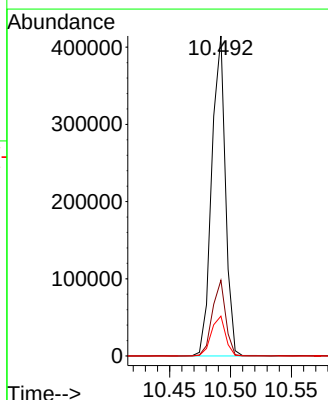
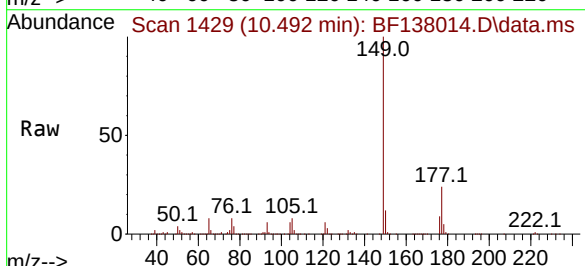
Tgt Ion:149 Resp: 324466

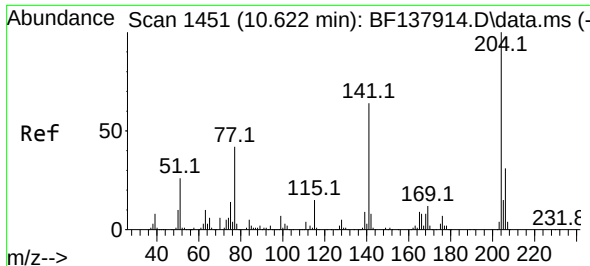
Ion Ratio Lower Upper

149 100

177 23.6 18.4 27.6

150 12.5 10.1 15.1

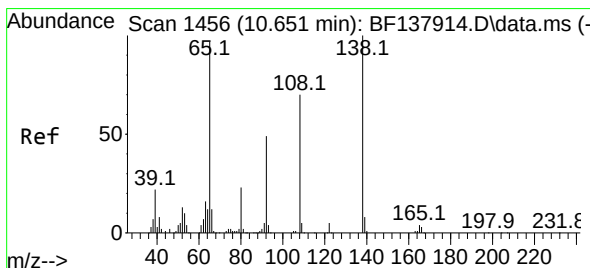
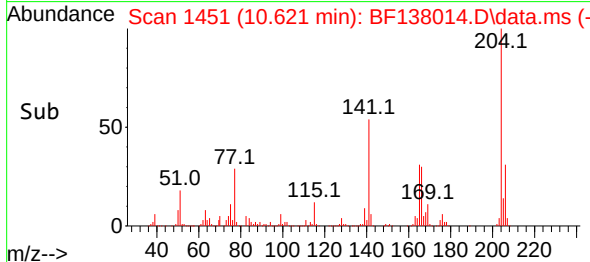
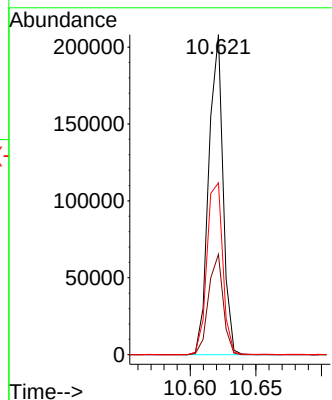
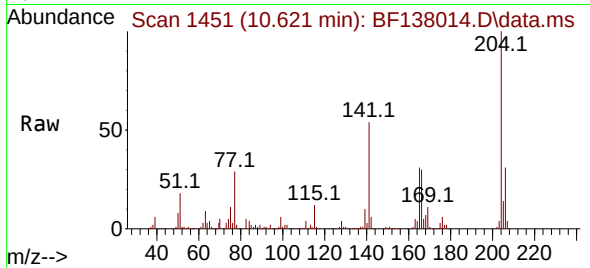




#61  
4-Chlorophenyl-phenylether  
Concen: 21.208 ng  
RT: 10.621 min Scan# 1451  
Delta R.T. -0.000 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

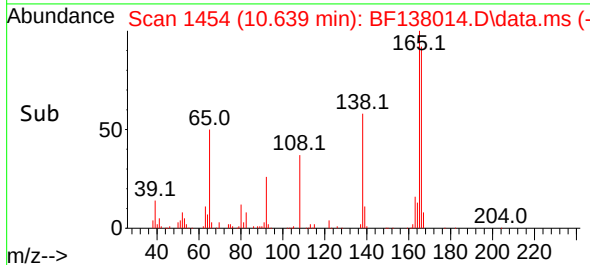
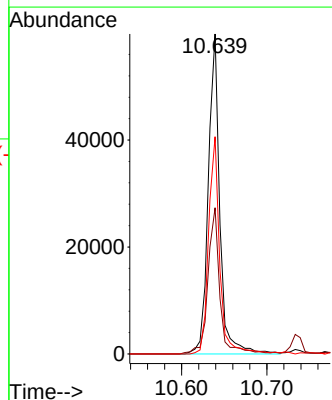
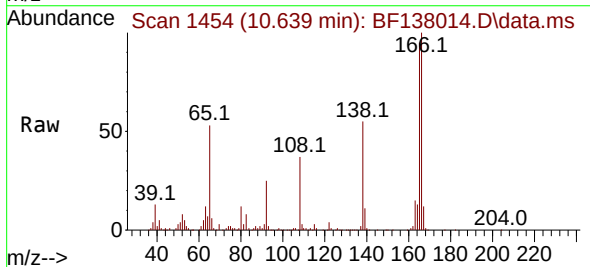
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

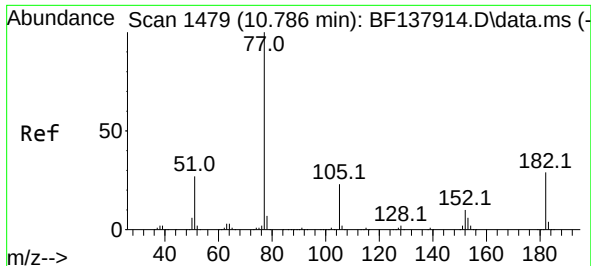
Tgt Ion:204 Resp: 157948  
Ion Ratio Lower Upper  
204 100  
206 31.4 25.1 37.7  
141 53.7 51.0 76.6



#62  
4-Nitroaniline  
Concen: 17.050 ng  
RT: 10.639 min Scan# 1454  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:138 Resp: 56101  
Ion Ratio Lower Upper  
138 100  
92 45.7 29.0 69.0  
108 67.9 49.7 89.7

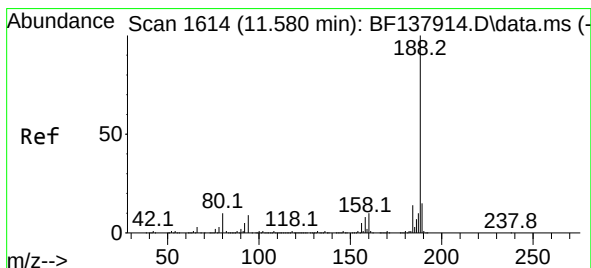
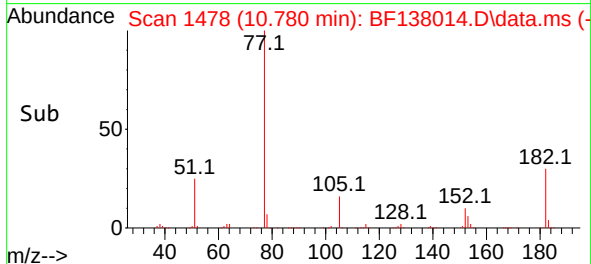
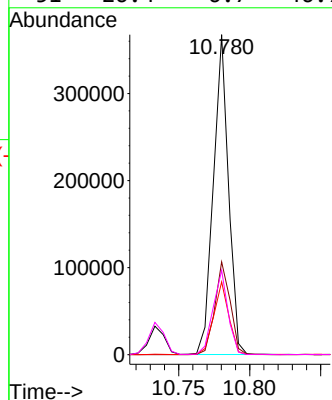
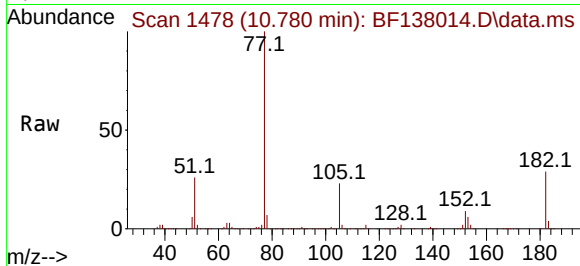




#63  
Azobenzene  
Concen: 20.595 ng  
RT: 10.780 min Scan# 1478  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

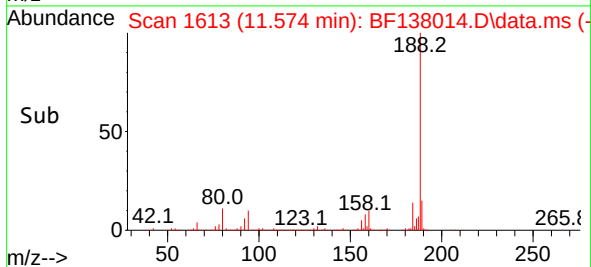
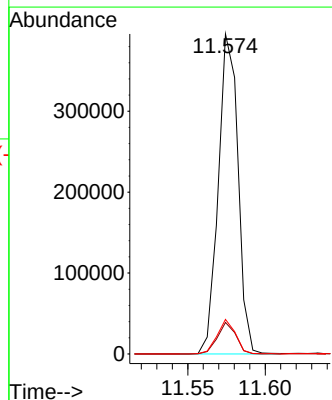
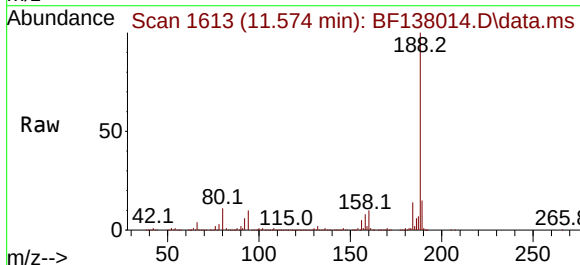
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

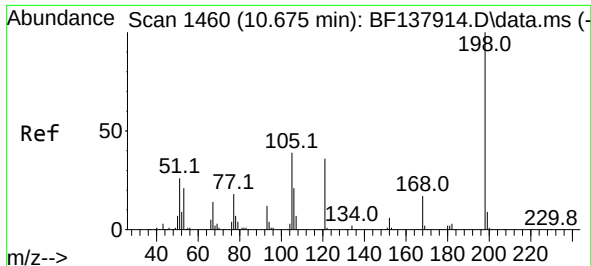
| Tgt Ion: | 77    | Resp: | 270502 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 182      | 29.0  | 9.2   | 49.2   |
| 105      | 22.7  | 3.1   | 43.1   |
| 51       | 26.4  | 6.7   | 46.7   |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.574 min Scan# 1613  
Delta R.T. -0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

| Tgt Ion: | 188   | Resp: | 350146 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.9   | 7.0   | 10.4   |
| 80       | 10.8  | 7.7   | 11.5   |

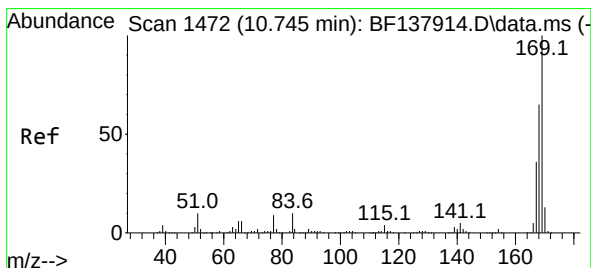
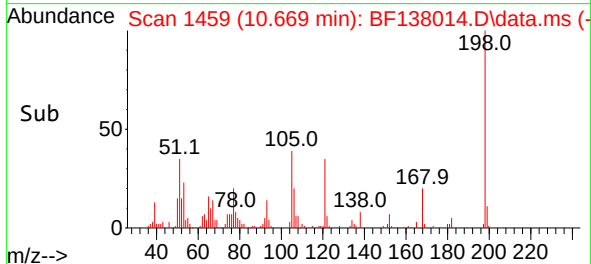
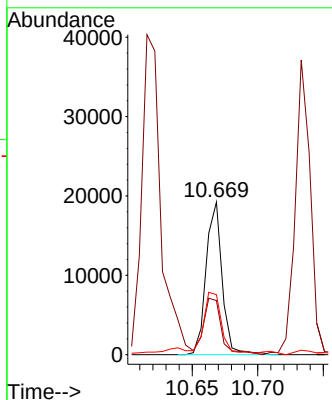
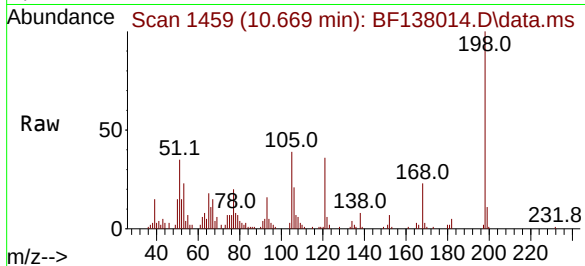




#65  
4,6-Dinitro-2-methylphenol  
Concen: 8.124 ng  
RT: 10.669 min Scan# 1460  
Delta R.T. -0.007 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

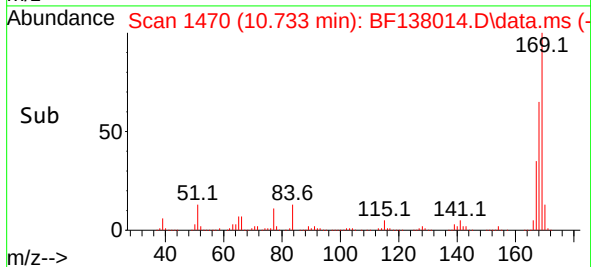
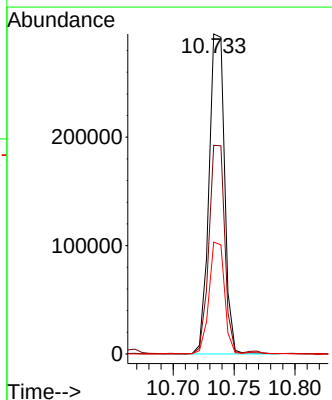
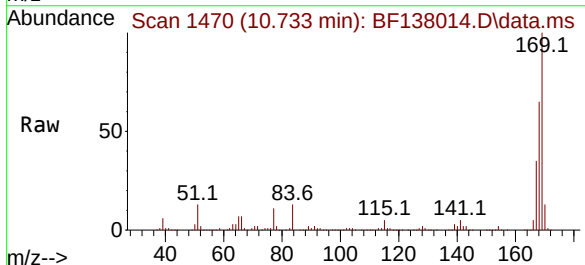
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

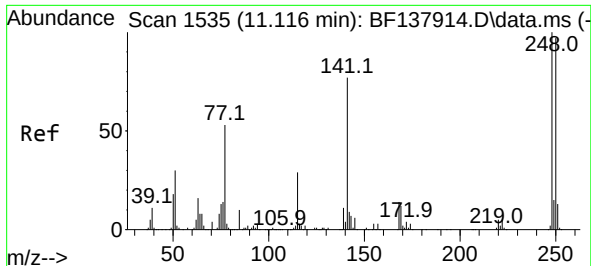
Tgt Ion:198 Resp: 16425  
Ion Ratio Lower Upper  
198 100  
51 35.4 13.8 53.8  
105 39.3 19.0 59.0



#66  
n-Nitrosodiphenylamine  
Concen: 24.617 ng  
RT: 10.733 min Scan# 1470  
Delta R.T. -0.012 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:169 Resp: 264339  
Ion Ratio Lower Upper  
169 100  
168 65.2 52.4 78.6  
167 35.0 28.9 43.3





#67

4-Bromophenyl-phenylether

Concen: 22.928 ng

RT: 11.116 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

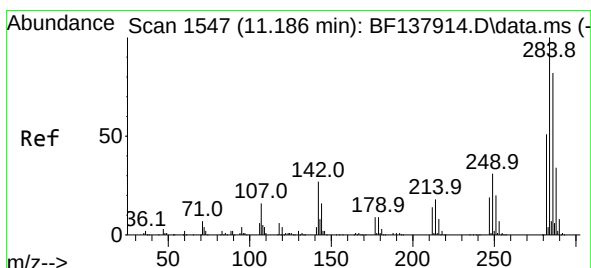
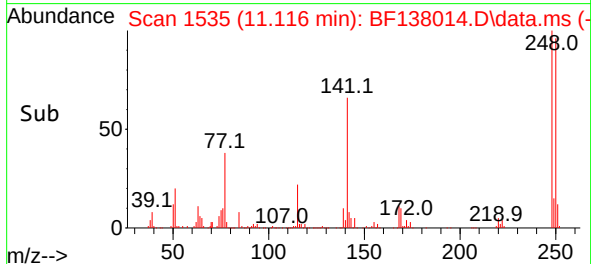
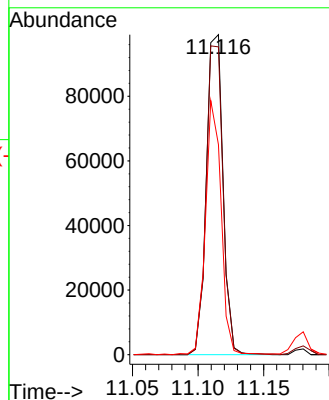
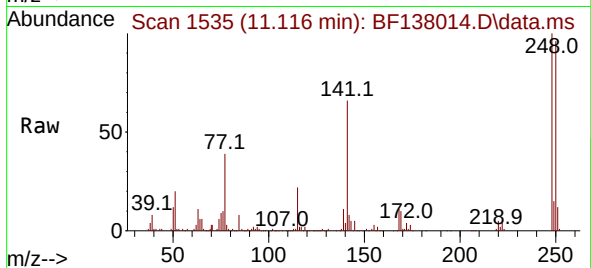
Tgt Ion:248 Resp: 88013

Ion Ratio Lower Upper

248 100

250 96.2 77.6 116.4

141 65.6 61.4 92.2



#68

Hexachlorobenzene

Concen: 21.543 ng

RT: 11.180 min Scan# 1546

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

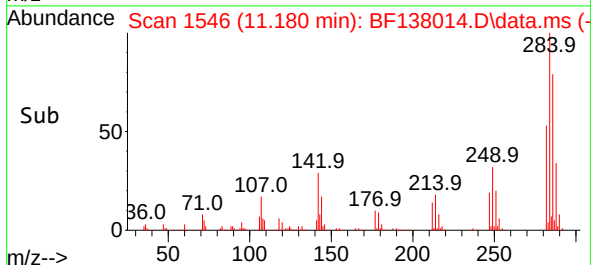
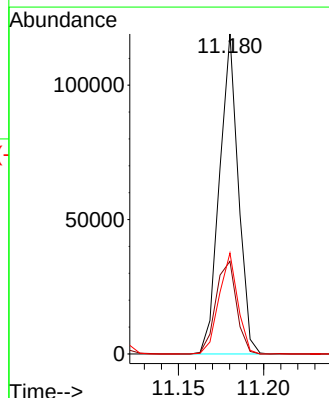
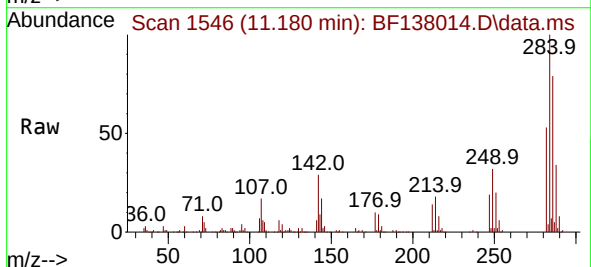
Tgt Ion:284 Resp: 91410

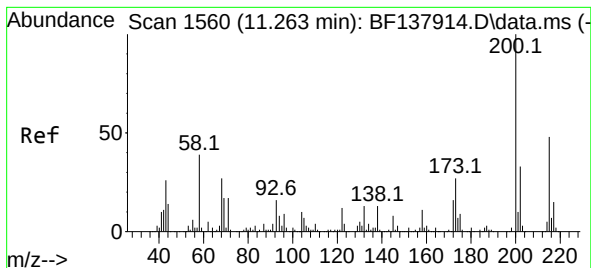
Ion Ratio Lower Upper

284 100

142 29.0 21.3 31.9

249 31.6 24.6 37.0





#69

Atrazine

Concen: 27.064 ng

RT: 11.257 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

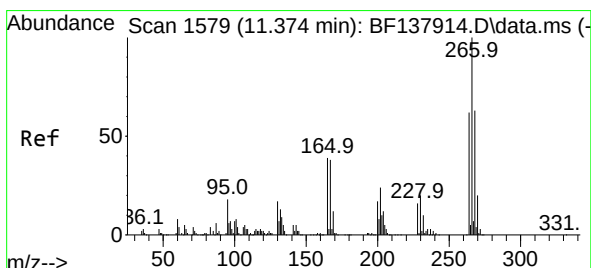
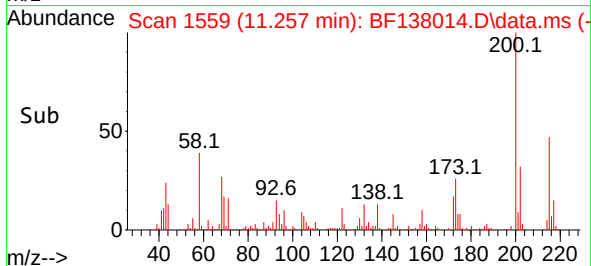
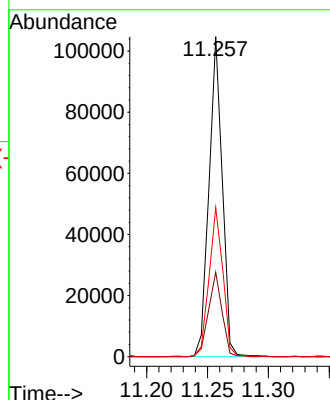
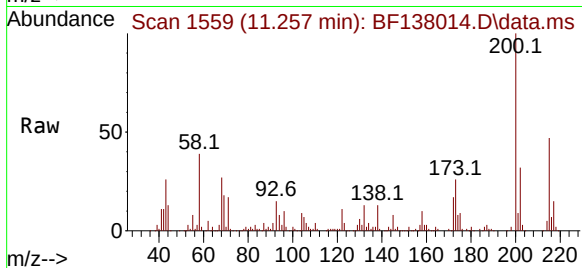
Tgt Ion:200 Resp: 79356

Ion Ratio Lower Upper

200 100

173 26.4 6.6 46.6

215 46.6 27.5 67.5



#70

Pentachlorophenol

Concen: 42.233 ng

RT: 11.374 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

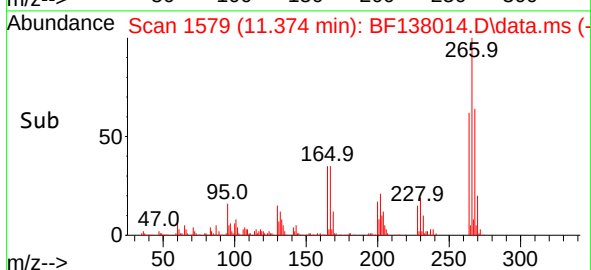
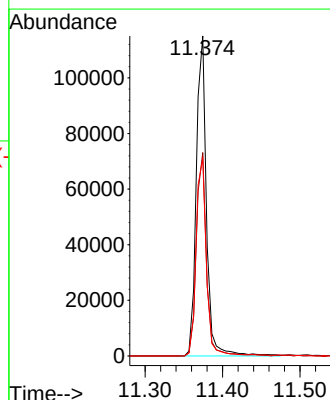
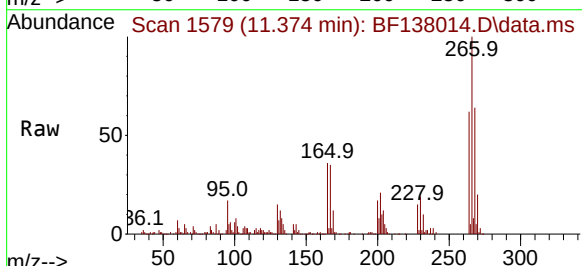
Tgt Ion:266 Resp: 104970

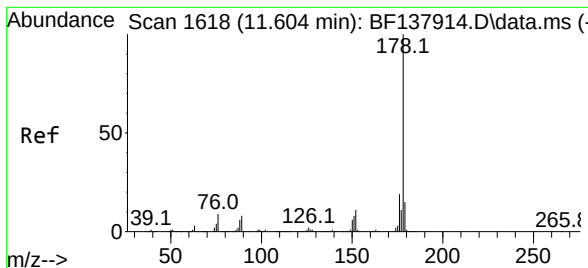
Ion Ratio Lower Upper

266 100

268 63.5 50.1 75.1

264 61.7 49.4 74.2





#71

Phenanthrene

Concen: 23.283 ng

RT: 11.598 min Scan# 1617

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

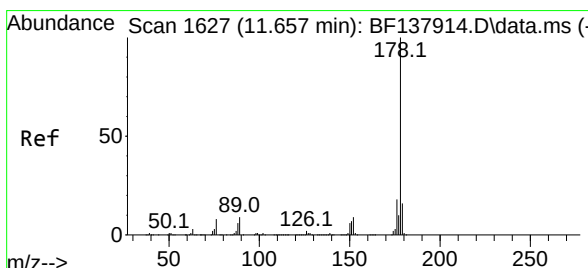
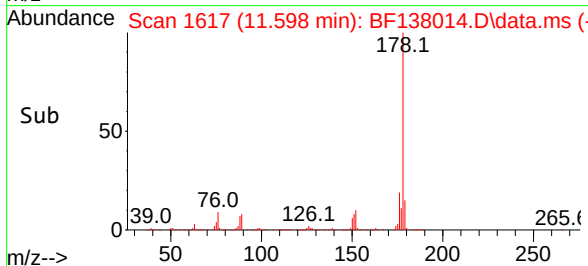
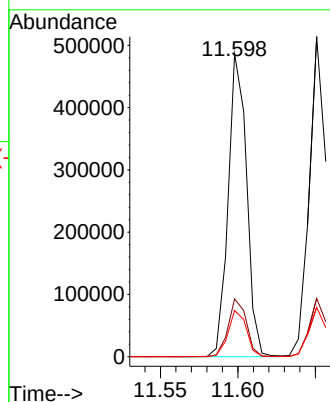
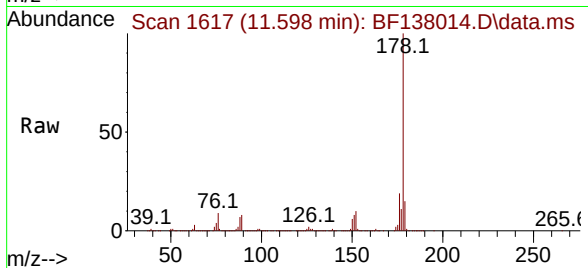
Tgt Ion:178 Resp: 401746

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 15.3 12.2 18.4



#72

Anthracene

Concen: 23.238 ng

RT: 11.651 min Scan# 1626

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

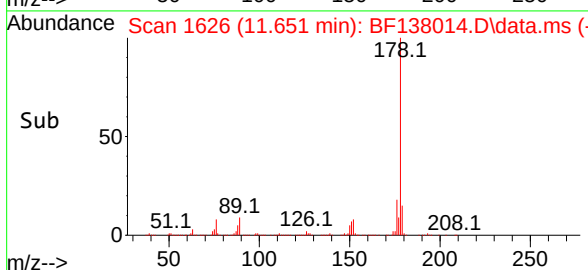
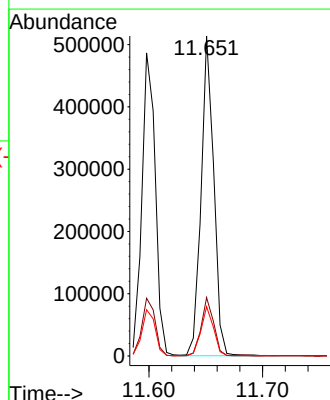
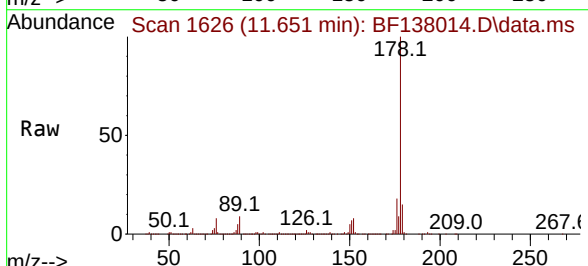
Tgt Ion:178 Resp: 397841

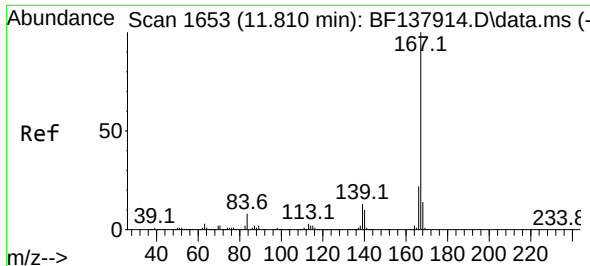
Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

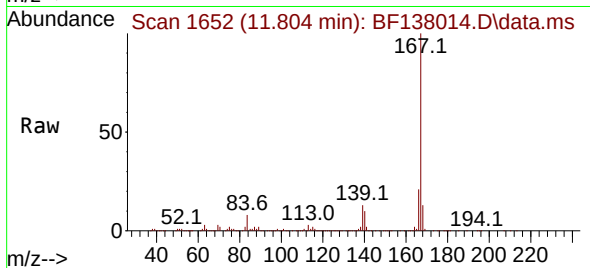
179 15.4 12.4 18.6





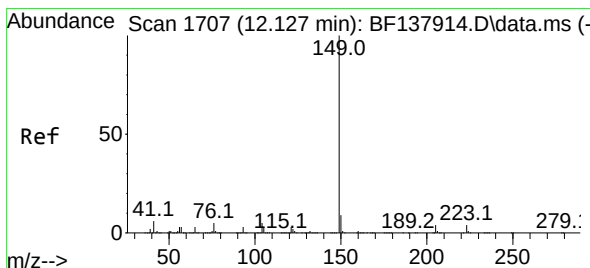
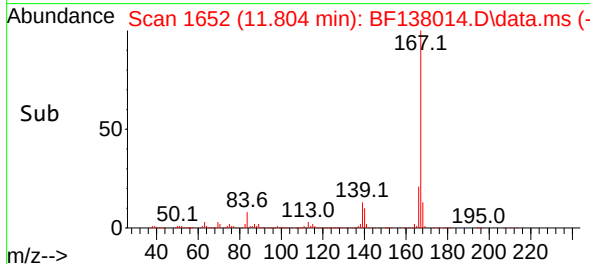
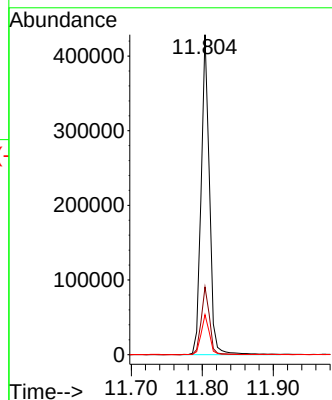
#73  
 Carbazole  
 Concen: 22.356 ng  
 RT: 11.804 min Scan# 1652  
 Delta R.T. -0.006 min  
 Lab File: BF138014.D  
 Acq: 22 May 2024 19:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-05212024MS



Tgt Ion:167 Resp: 349627

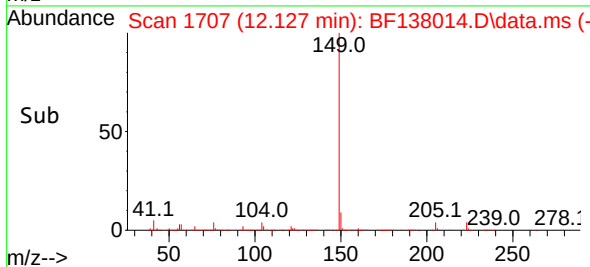
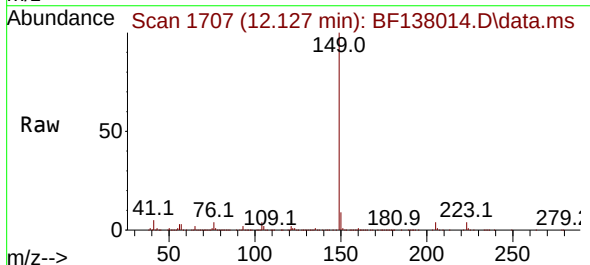
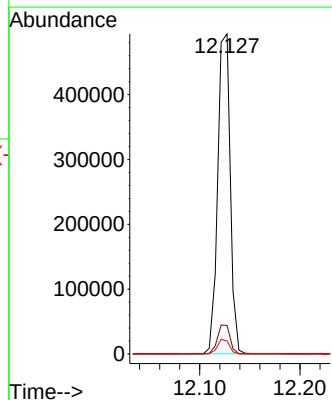
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 21.1  | 17.3  | 25.9  |
| 139 | 12.5  | 10.3  | 15.5  |



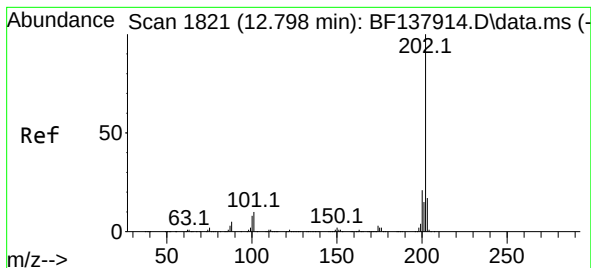
#74  
 Di-n-butylphthalate  
 Concen: 24.644 ng  
 RT: 12.127 min Scan# 1707  
 Delta R.T. -0.000 min  
 Lab File: BF138014.D  
 Acq: 22 May 2024 19:55

Tgt Ion:149 Resp: 427725

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 150 | 8.9   | 7.4   | 11.2  |
| 104 | 4.0   | 3.6   | 5.4   |







#75

Fluoranthene

Concen: 25.368 ng

RT: 12.792 min Scan# 1821

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

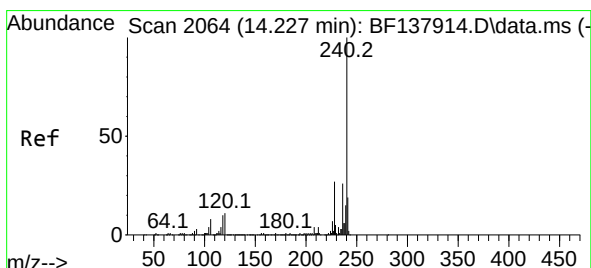
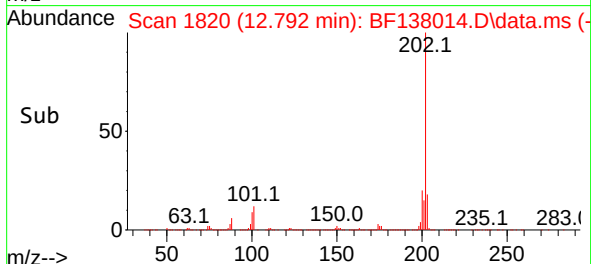
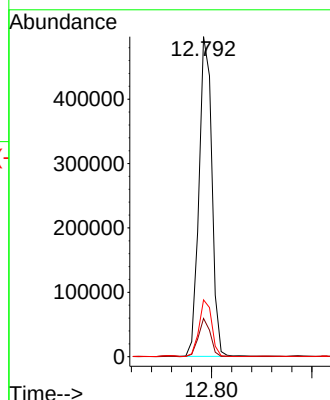
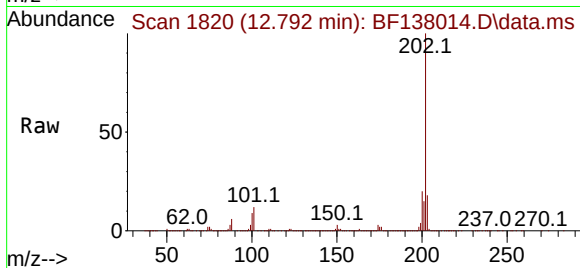
Tgt Ion:202 Resp: 444290

Ion Ratio Lower Upper

202 100

101 12.0 0.0 30.5

203 17.8 0.0 37.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.227 min Scan# 2064

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

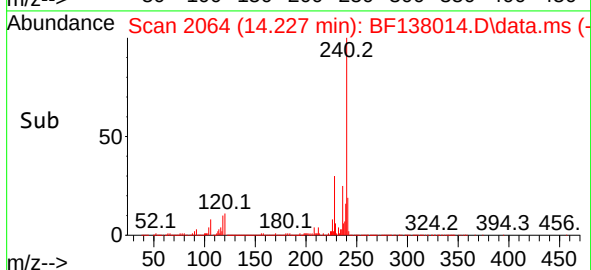
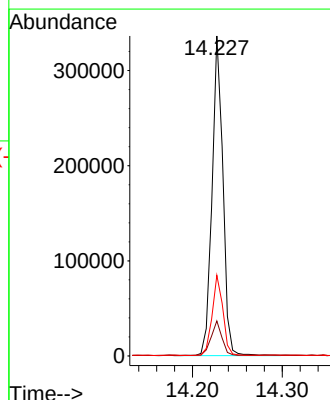
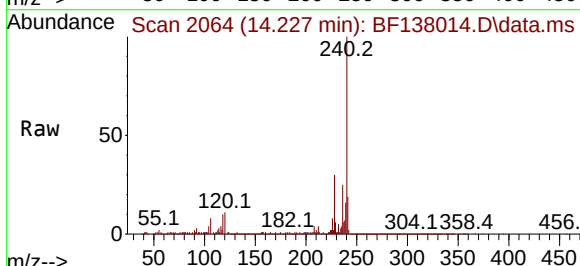
Tgt Ion:240 Resp: 281097

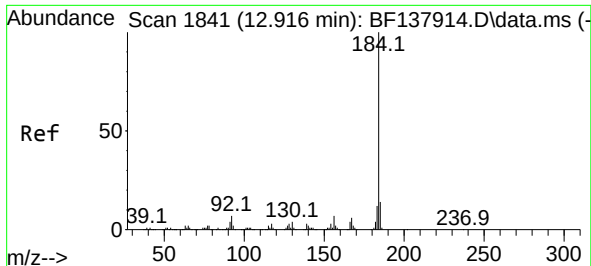
Ion Ratio Lower Upper

240 100

120 11.0 8.9 13.3

236 25.2 21.0 31.4

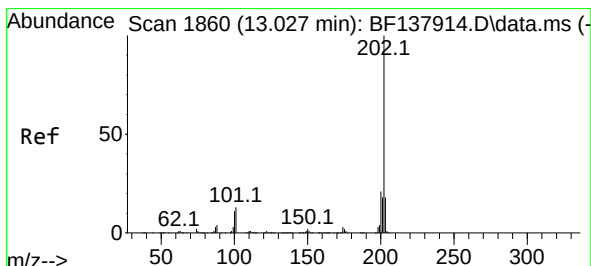
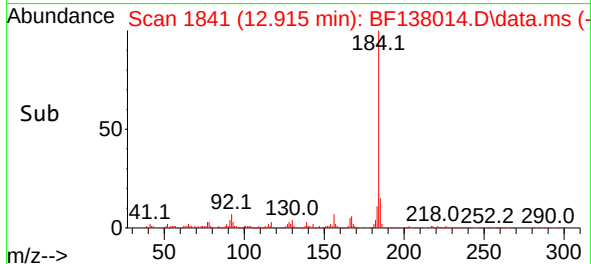
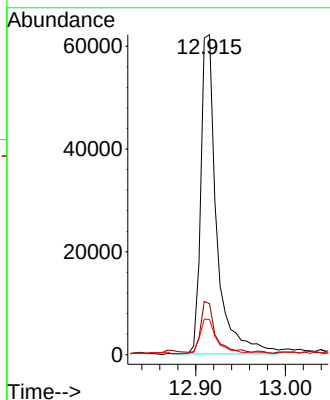
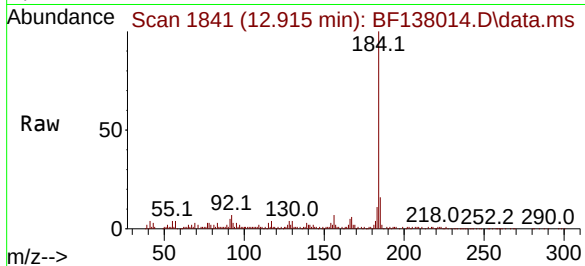




#77  
Benzidine  
Concen: 20.758 ng  
RT: 12.915 min Scan# 1841  
Delta R.T. -0.001 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

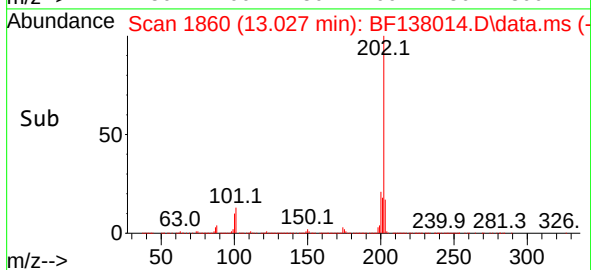
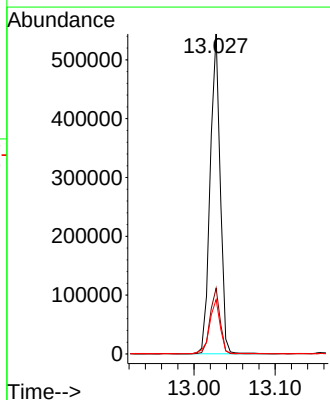
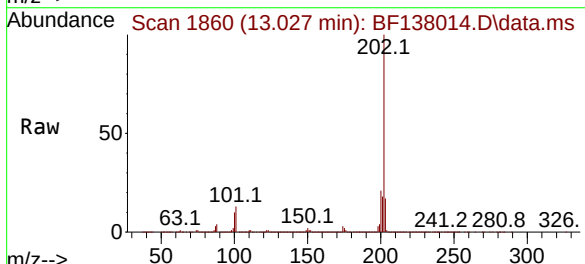
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

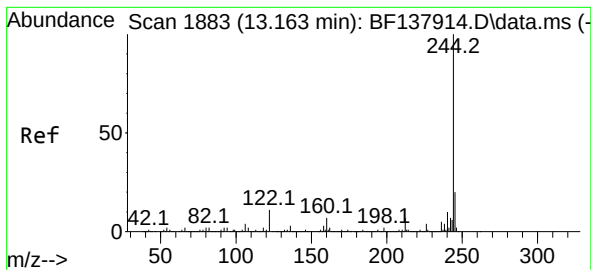
Tgt Ion:184 Resp: 76257  
Ion Ratio Lower Upper  
184 100  
185 15.9 11.4 17.2  
183 11.0 9.5 14.3



#78  
Pyrene  
Concen: 18.913 ng  
RT: 13.027 min Scan# 1860  
Delta R.T. -0.000 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:202 Resp: 464985  
Ion Ratio Lower Upper  
202 100  
200 20.5 17.0 25.4  
203 17.0 14.1 21.1





#79

Terphenyl-d14

Concen: 24.548 ng

RT: 13.157 min Scan# 1882

Delta R.T. -0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

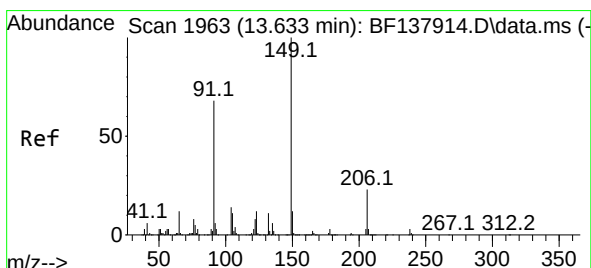
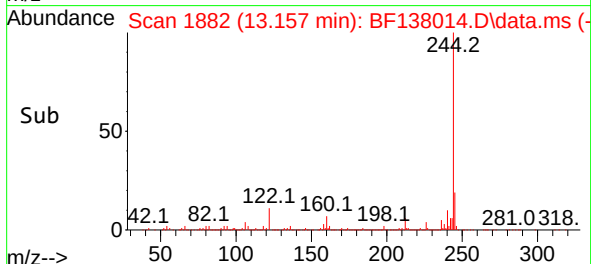
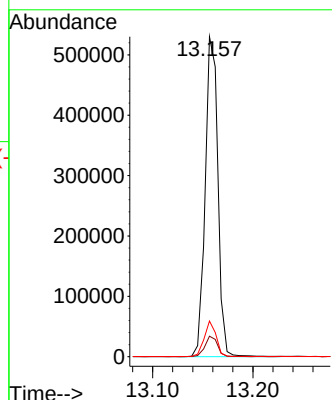
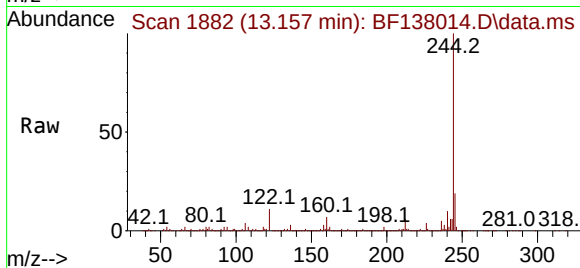
Tgt Ion:244 Resp: 468205

Ion Ratio Lower Upper

244 100

212 6.4 5.6 8.4

122 11.2 8.8 13.2



#80

Butylbenzylphthalate

Concen: 23.284 ng

RT: 13.633 min Scan# 1963

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

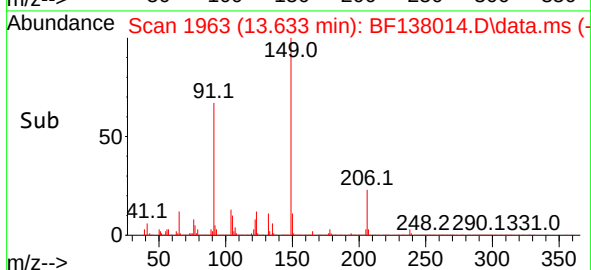
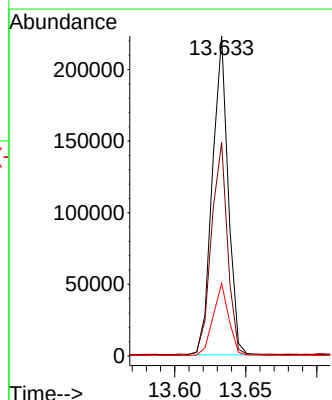
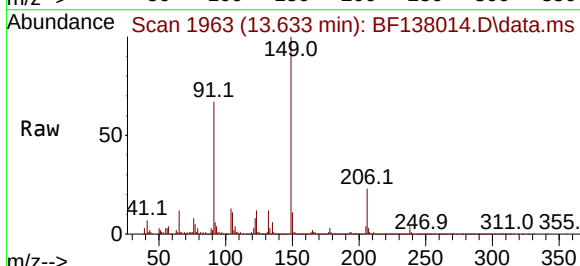
Tgt Ion:149 Resp: 172666

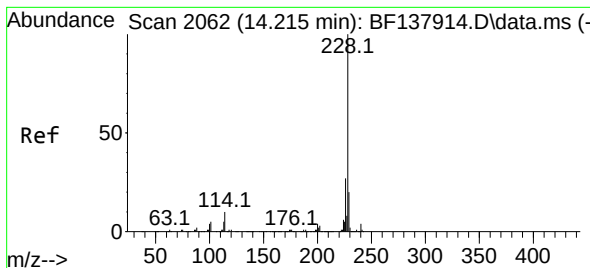
Ion Ratio Lower Upper

149 100

91 66.7 54.2 81.4

206 22.7 18.1 27.1





#81

Benzo(a)anthracene

Concen: 23.048 ng

RT: 14.215 min Scan# 2062

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

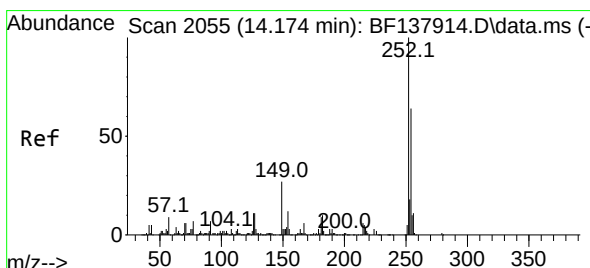
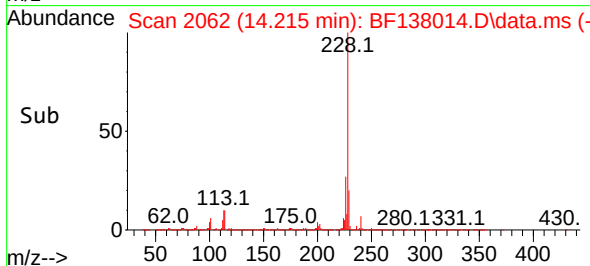
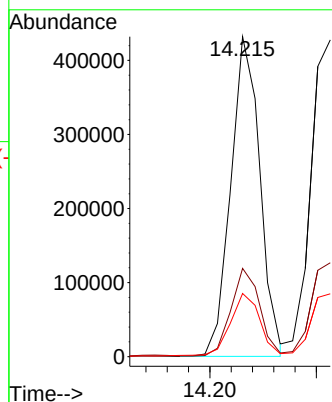
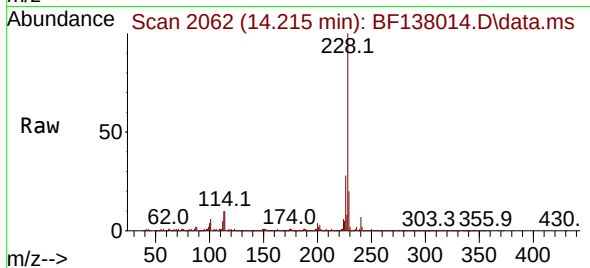
Tgt Ion:228 Resp: 409893

Ion Ratio Lower Upper

228 100

226 27.6 21.3 31.9

229 19.7 15.7 23.5



#82

3,3'-Dichlorobenzidine

Concen: 19.911 ng

RT: 14.174 min Scan# 2055

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

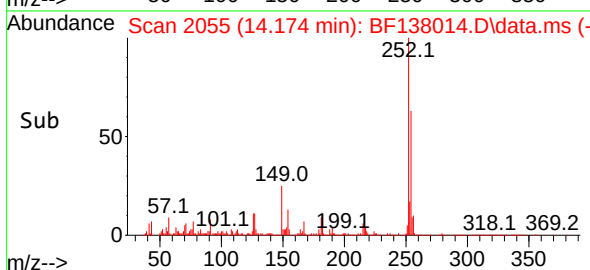
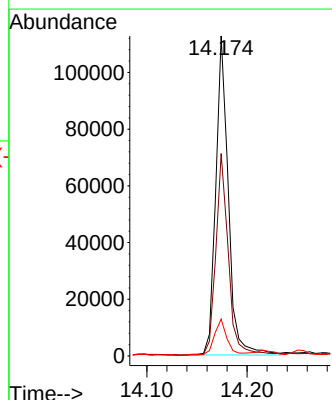
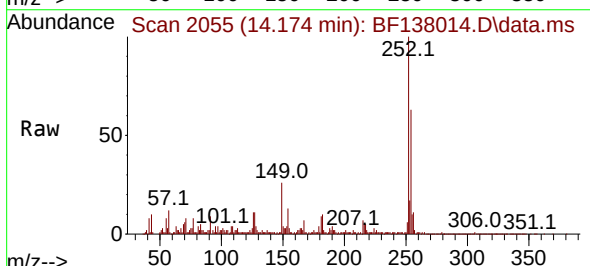
Tgt Ion:252 Resp: 98132

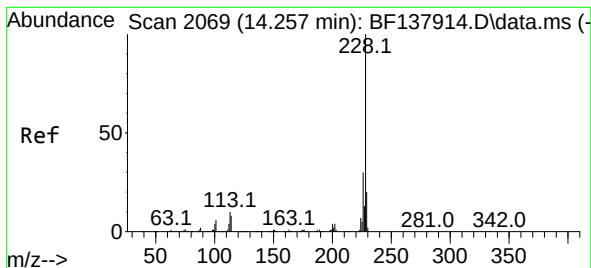
Ion Ratio Lower Upper

252 100

254 63.3 51.2 76.8

126 11.5 8.7 13.1





#83

Chrysene

Concen: 22.871 ng

RT: 14.257 min Scan# 2069

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

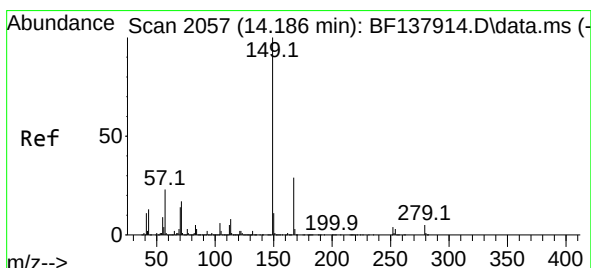
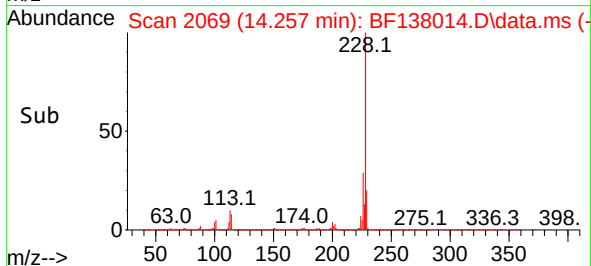
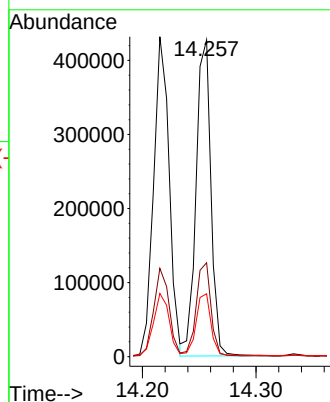
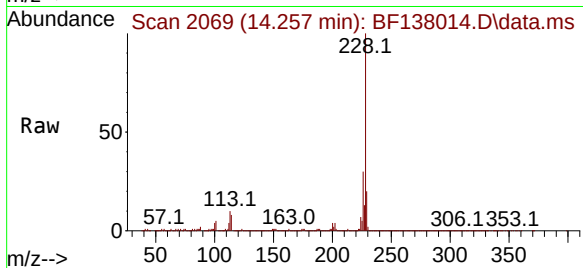
Tgt Ion:228 Resp: 388988

Ion Ratio Lower Upper

228 100

226 29.6 23.8 35.8

229 19.8 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 27.522 ng

RT: 14.186 min Scan# 2057

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

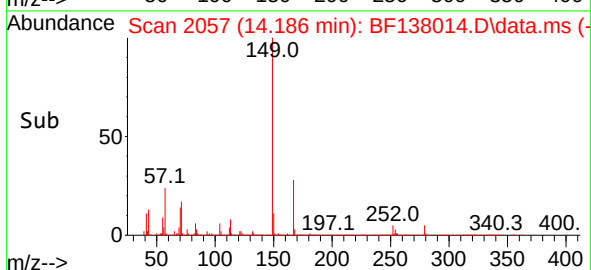
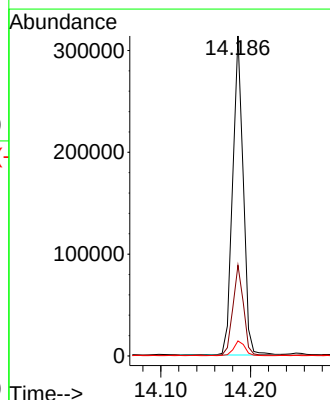
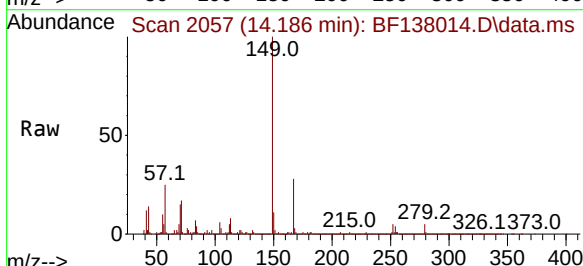
Tgt Ion:149 Resp: 256559

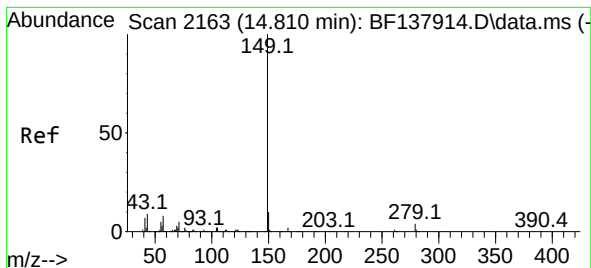
Ion Ratio Lower Upper

149 100

167 28.4 23.2 34.8

279 4.7 4.1 6.1





#85

Di-n-octyl phthalate

Concen: 33.763 ng

RT: 14.815 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

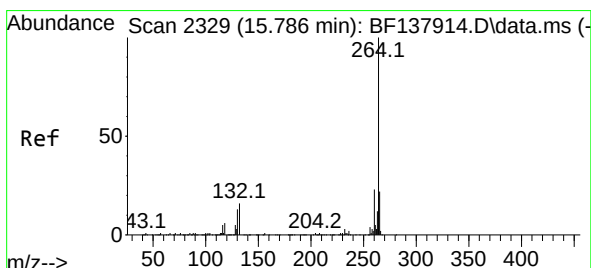
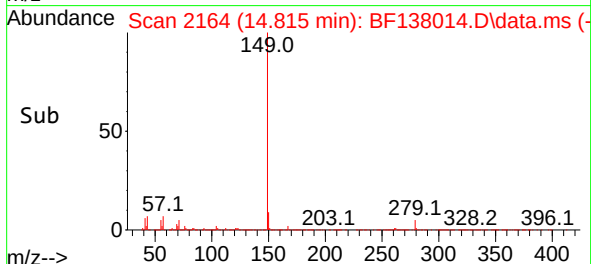
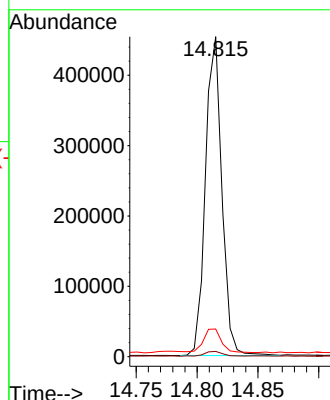
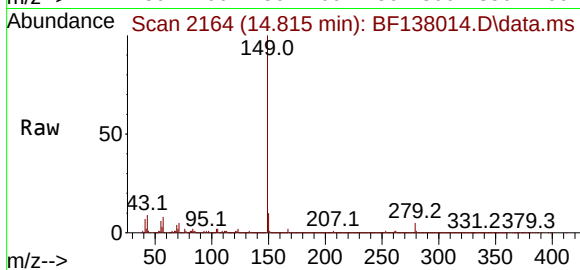
Tgt Ion:149 Resp: 425199

Ion Ratio Lower Upper

149 100

167 1.7 1.4 2.0

43 8.0 6.6 9.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.792 min Scan# 2330

Delta R.T. 0.006 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

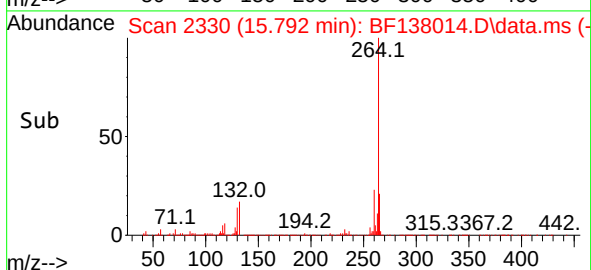
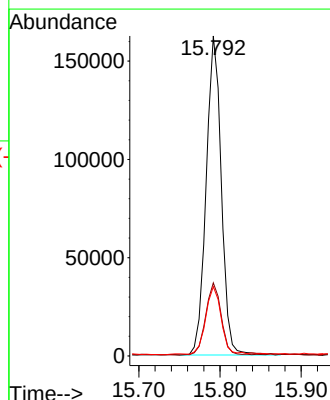
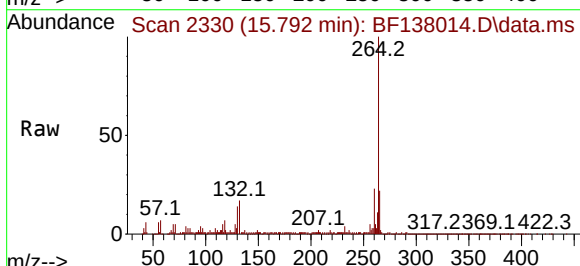
Tgt Ion:264 Resp: 210111

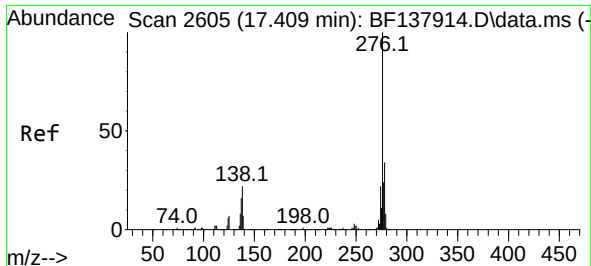
Ion Ratio Lower Upper

264 100

260 22.8 18.3 27.5

265 21.7 17.6 26.4

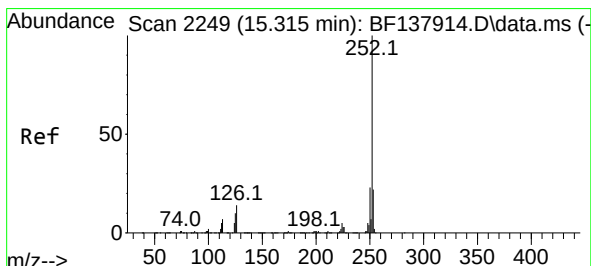
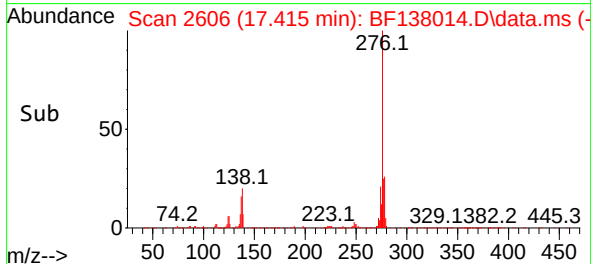
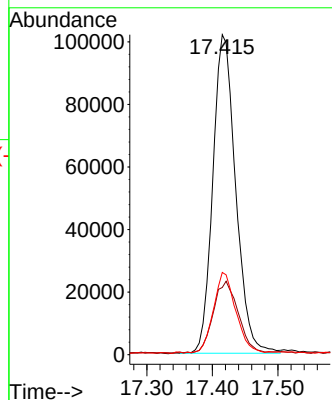
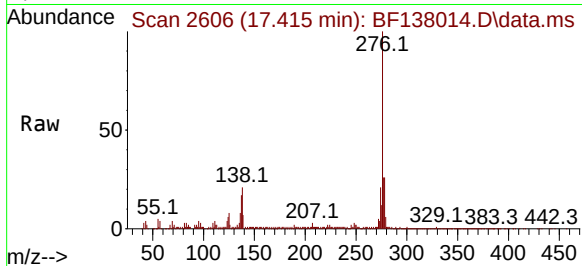




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 18.234 ng  
RT: 17.415 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

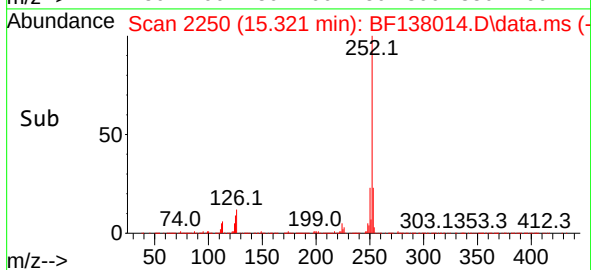
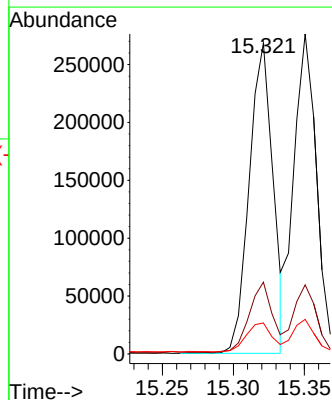
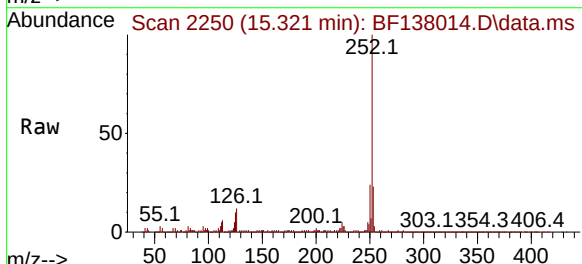
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-05212024MS

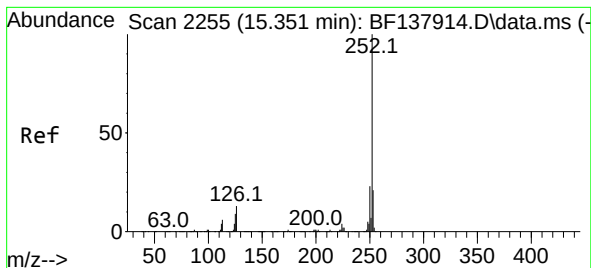
Tgt Ion:276 Resp: 246141  
Ion Ratio Lower Upper  
276 100  
138 24.5 20.6 30.8  
277 24.8 20.2 30.2



#88  
Benzo(b)fluoranthene  
Concen: 25.644 ng  
RT: 15.321 min Scan# 2250  
Delta R.T. 0.006 min  
Lab File: BF138014.D  
Acq: 22 May 2024 19:55

Tgt Ion:252 Resp: 311973  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.6 26.4  
125 10.0 8.2 12.4





#89

Benzo(k)fluoranthene

Concen: 25.566 ng

RT: 15.351 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

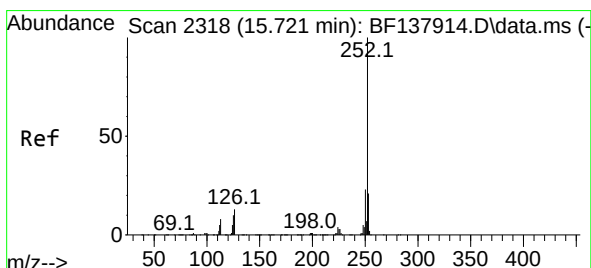
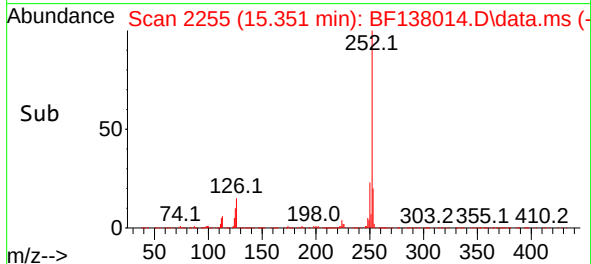
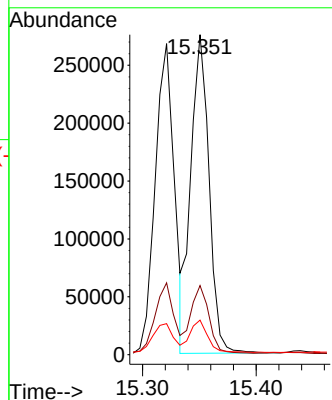
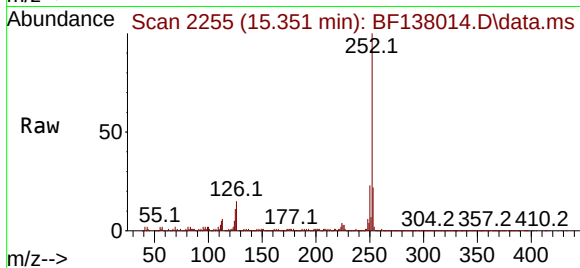
Tgt Ion:252 Resp: 305550

Ion Ratio Lower Upper

252 100

253 21.6 17.4 26.0

125 10.8 7.7 11.5



#90

Benzo(a)pyrene

Concen: 24.894 ng

RT: 15.721 min Scan# 2318

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

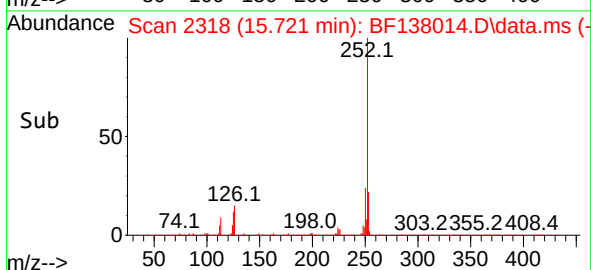
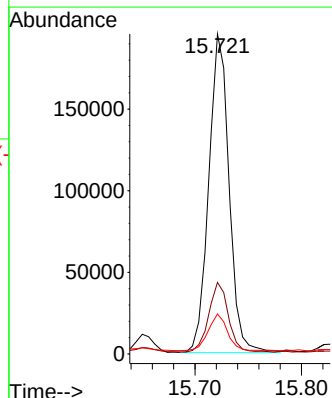
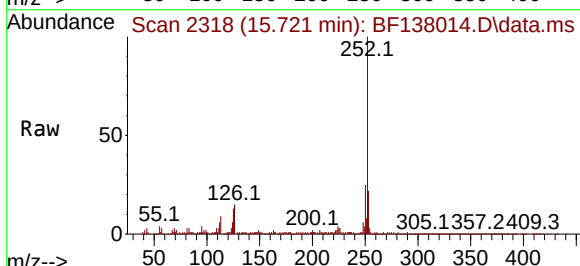
Tgt Ion:252 Resp: 258601

Ion Ratio Lower Upper

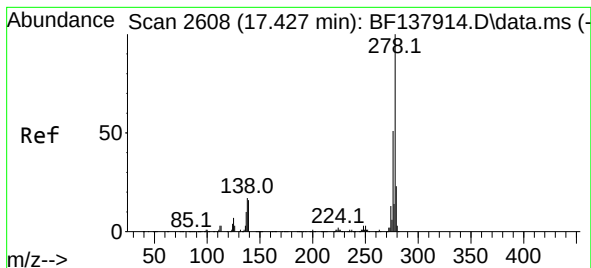
252 100

253 22.4 17.0 25.6

125 12.5 7.8 11.8#







#91

Dibenzo(a,h)anthracene

Concen: 17.480 ng

RT: 17.439 min Scan# 2610

Delta R.T. 0.012 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Instrument :

BNA\_F

ClientSampleId :

HD-01-05212024MS

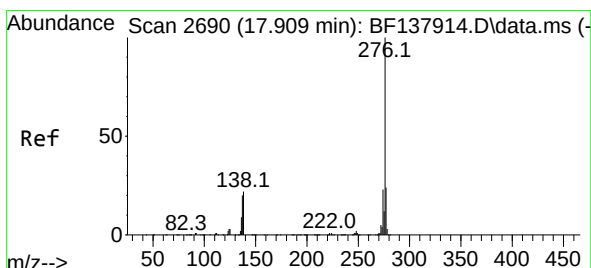
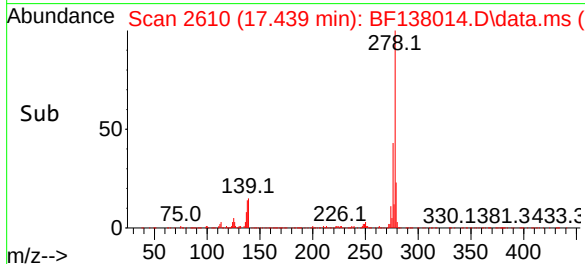
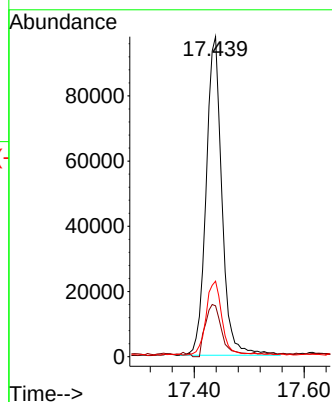
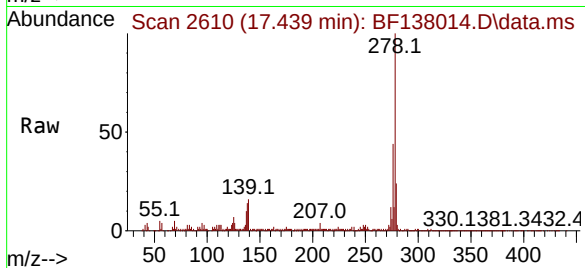
Tgt Ion:278 Resp: 194959

Ion Ratio Lower Upper

278 100

139 15.9 13.1 19.7

279 23.6 18.5 27.7



#92

Benzo(g,h,i)perylene

Concen: 16.247 ng

RT: 17.909 min Scan# 2690

Delta R.T. -0.000 min

Lab File: BF138014.D

Acq: 22 May 2024 19:55

Tgt Ion:276 Resp: 190352

Ion Ratio Lower Upper

276 100

277 24.2 18.9 28.3

138 22.8 17.6 26.4

