

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011123\  
 Data File : BF132028.D  
 Acq On : 11 Jan 2023 17:56  
 Operator : CG\JU  
 Sample : 01072-01MSD  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 H-5-MIDDLE(4-8)MSD

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 01/12/2023  
 Supervised By : Jagrut Upadhyay 01/12/2023

Quant Time: Jan 12 00:36:13 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF010923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 10 00:32:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.781  | 152  | 79988    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.069  | 136  | 296082   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.833  | 164  | 173588   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.327 | 188  | 313335   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 13.980 | 240  | 139174   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.439 | 264  | 145219   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.404  | 112  | 283905   | 58.485  | ng    | 0.01     |
| 7) Phenol-d6                  | 6.434  | 99   | 649135   | 100.857 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.357  | 82   | 499187   | 69.974  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.627 | 330  | 8997     | 4.508   | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.151  | 172  | 914837   | 71.145  | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.916 | 244  | 903211   | 93.016  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.557  | 88   | 86926    | 41.001  | ng    | 99       |
| 3) Pyridine                   | 3.281  | 79   | 237536   | 39.921  | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.257  | 42   | 123836   | 44.283  | ng    | 94       |
| 6) Aniline                    | 6.445  | 93   | 182787   | 21.585  | ng    | # 1      |
| 8) 2-Chlorophenol             | 6.569  | 128  | 228469   | 46.910  | ng    | 98       |
| 9) Benzaldehyde               | 6.328  | 77   | 141829   | 33.118  | ng    | 97       |
| 10) Phenol                    | 6.445  | 94   | 319010   | 44.431  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 6.522  | 93   | 239875   | 44.319  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.716  | 146  | 251742   | 46.406  | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 6.798  | 146  | 254855   | 46.432  | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 6.951  | 146  | 241825   | 46.389  | ng    | 99       |
| 15) Benzyl Alcohol            | 6.934  | 79   | 252620   | 45.072  | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.057  | 45   | 302255   | 44.251  | ng    | # 14     |
| 17) 2-Methylphenol            | 7.051  | 107  | 207062   | 42.961  | ng    | 92       |
| 18) Hexachloroethane          | 7.287  | 117  | 105819   | 46.618  | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 7.204  | 70   | 201261   | 43.228  | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.210  | 107  | 270332   | 43.688  | ng    | # 70     |
| 22) Acetophenone              | 7.198  | 105  | 381303   | 44.232  | ng    | 93       |
| 24) Nitrobenzene              | 7.375  | 77   | 304165   | 41.881  | ng    | 98       |
| 25) Isophorone                | 7.616  | 82   | 556588   | 41.763  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.692  | 139  | 128000   | 44.792  | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 7.734  | 122  | 211751   | 44.393  | ng    | 96       |
| 28) bis(2-Chloroethoxy)met... | 7.828  | 93   | 313016   | 42.437  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 7.939  | 162  | 214393   | 43.882  | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 8.010  | 180  | 247650   | 44.259  | ng    | 99       |
| 31) Naphthalene               | 8.092  | 128  | 677137   | 43.275  | ng    | 99       |
| 32) Benzoic acid              | 7.881  | 122  | 85887m   | 31.058  | ng    |          |
| 33) 4-Chloroaniline           | 8.151  | 127  | 56816    | 8.799   | ng    | 93       |
| 34) Hexachlorobutadiene       | 8.204  | 225  | 168141   | 43.342  | ng    | 98       |
| 35) Caprolactam               | 8.545  | 113  | 58720m   | 40.922  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.651  | 107  | 246308   | 42.954  | ng    | 100      |
| 37) 2-Methylnaphthalene       | 8.786  | 142  | 464434   | 41.327  | ng    | 98       |
| 38) 1-Methylnaphthalene       | 8.886  | 142  | 425527   | 40.870  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 8.957  | 216  | 268990   | 43.975  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 8.933  | 237  | 190155   | 64.300  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 9.075  | 196  | 157541   | 42.788  | ng    | 98       |

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 Sample : 01072-01MSD  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
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 H-5-MIDDLE(4-8)MSD

Quant Time: Jan 12 00:36:13 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF010923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 10 00:32:25 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

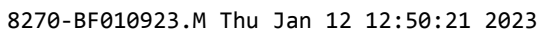
Reviewed By :Christian Giraldo 01/12/2023  
 Supervised By :Jagrut Upadhyay 01/12/2023

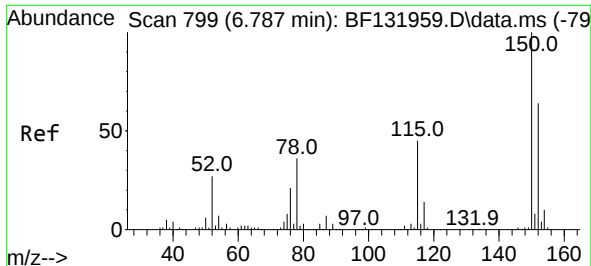
| Compound                       | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol      | 9.122  | 196  | 165906   | 38.705 | ng    | 97       |
| 46) 1,1'-Biphenyl              | 9.257  | 154  | 595780   | 44.467 | ng    | 99       |
| 47) 2-Chloronaphthalene        | 9.281  | 162  | 465919   | 44.805 | ng    | 100      |
| 48) 2-Nitroaniline             | 9.386  | 65   | 154966   | 41.029 | ng    | 99       |
| 49) Acenaphthylene             | 9.698  | 152  | 689506   | 42.728 | ng    | 99       |
| 50) Dimethylphthalate          | 9.563  | 163  | 566558   | 41.871 | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 9.633  | 165  | 121137   | 42.566 | ng    | 98       |
| 52) Acenaphthene               | 9.869  | 154  | 408689   | 42.192 | ng    | 99       |
| 53) 3-Nitroaniline             | 9.798  | 138  | 45775    | 16.579 | ng    | 93       |
| 54) 2,4-Dinitrophenol          | 9.916  | 184  | 87257    | 61.066 | ng    | 98       |
| 55) Dibenzofuran               | 10.045 | 168  | 636814   | 41.707 | ng    | 99       |
| 56) 4-Nitrophenol              | 9.986  | 139  | 108137   | 69.533 | ng    | 98       |
| 57) 2,4-Dinitrotoluene         | 10.039 | 165  | 156320   | 41.084 | ng    | 94       |
| 58) Fluorene                   | 10.386 | 166  | 508928   | 41.725 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 10.169 | 232  | 134150   | 42.002 | ng    | 94       |
| 60) Diethylphthalate           | 10.263 | 149  | 547738   | 41.167 | ng    | 100      |
| 61) 4-Chlorophenyl-phenylether | 10.375 | 204  | 283350   | 40.581 | ng    | 93       |
| 62) 4-Nitroaniline             | 10.422 | 138  | 90750    | 36.553 | ng    | 87       |
| 63) Azobenzene                 | 10.539 | 77   | 645745   | 45.752 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph...  | 10.451 | 198  | 72886    | 36.071 | ng    | 98       |
| 66) n-Nitrosodiphenylamine     | 10.504 | 169  | 430713   | 43.815 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether  | 10.869 | 248  | 170419   | 43.477 | ng    | 98       |
| 68) Hexachlorobenzene          | 10.933 | 284  | 181546   | 45.785 | ng    | 96       |
| 69) Atrazine                   | 11.033 | 200  | 161478   | 45.171 | ng    | 99       |
| 70) Pentachlorophenol          | 11.139 | 266  | 115025   | 55.792 | ng    | 98       |
| 71) Phenanthrene               | 11.351 | 178  | 709257   | 43.421 | ng    | 99       |
| 72) Anthracene                 | 11.404 | 178  | 714185   | 42.472 | ng    | 99       |
| 73) Carbazole                  | 11.563 | 167  | 570295   | 40.965 | ng    | 99       |
| 74) Di-n-butylphthalate        | 11.892 | 149  | 808825   | 41.726 | ng    | 99       |
| 75) Fluoranthene               | 12.545 | 202  | 690752   | 37.602 | ng    | 99       |
| 77) Benzidine                  | 12.669 | 184  | 157820   | 34.133 | ng    | 96       |
| 78) Pyrene                     | 12.774 | 202  | 668716   | 52.682 | ng    | 100      |
| 80) Butylbenzylphthalate       | 13.392 | 149  | 240452   | 46.930 | ng    | 100      |
| 81) Benzo(a)anthracene         | 13.968 | 228  | 435861   | 43.047 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 13.933 | 252  | 61512    | 19.465 | ng    | 98       |
| 83) Chrysene                   | 14.004 | 228  | 403383   | 42.628 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha...  | 13.951 | 149  | 315815   | 45.497 | ng    | 100      |
| 85) Di-n-octyl phthalate       | 14.568 | 149  | 478011   | 50.324 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene     | 16.909 | 276  | 467586   | 52.501 | ng    | 100      |
| 88) Benzo(b)fluoranthene       | 15.015 | 252  | 424660   | 42.635 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 15.045 | 252  | 376883   | 37.914 | ng    | 99       |
| 90) Benzo(a)pyrene             | 15.380 | 252  | 362022   | 40.341 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 16.921 | 278  | 395450   | 52.967 | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 17.351 | 276  | 378550   | 47.400 | ng    | 99       |

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

## Manual Integrations APPROVED

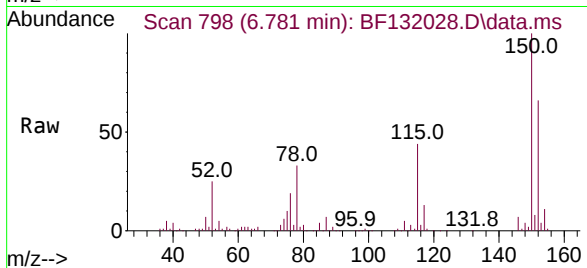
Quant Time: Jan 12 00:36:13 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF010923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 10 00:32:25 2023  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

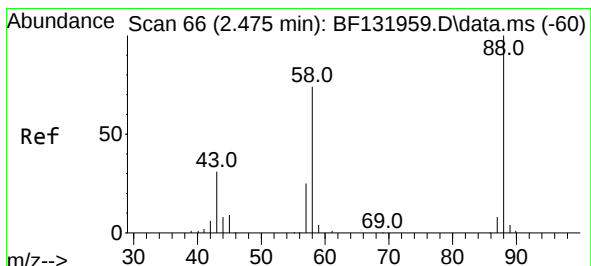
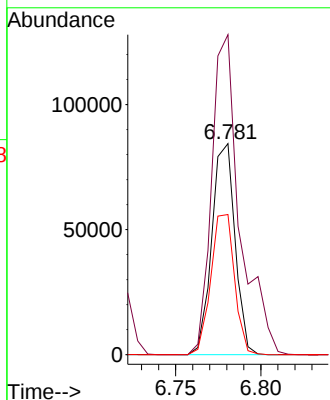
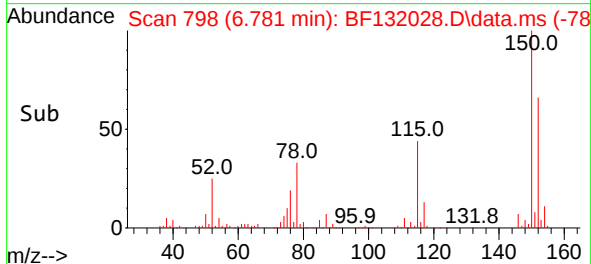
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:152 Resp: 79988  
Ion Ratio Lower Upper  
152 100  
150 151.7 124.6 186.8  
115 66.4 55.6 83.4

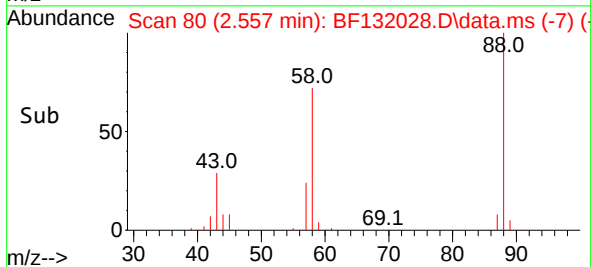
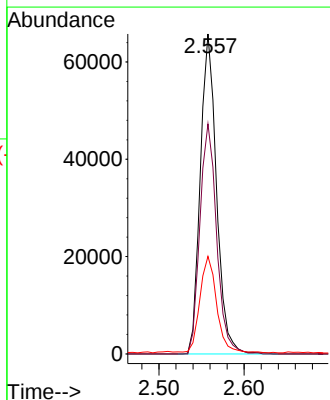
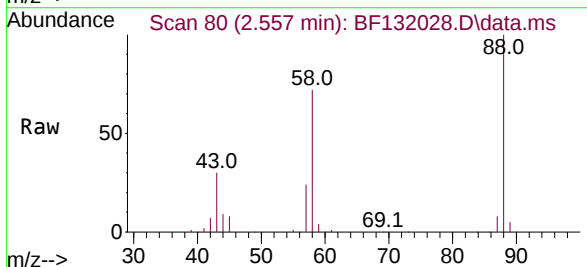
Manual Integrations  
APPROVED

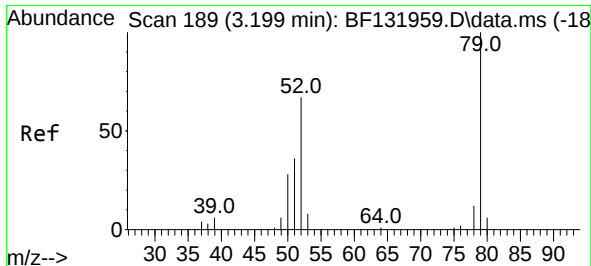
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#2  
1,4-Dioxane  
Concen: 41.001 ng  
RT: 2.557 min Scan# 80  
Delta R.T. 0.082 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion: 88 Resp: 86926  
Ion Ratio Lower Upper  
88 100  
58 74.2 59.0 88.4  
43 31.3 24.6 37.0





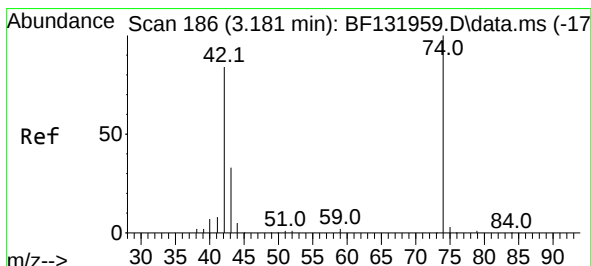
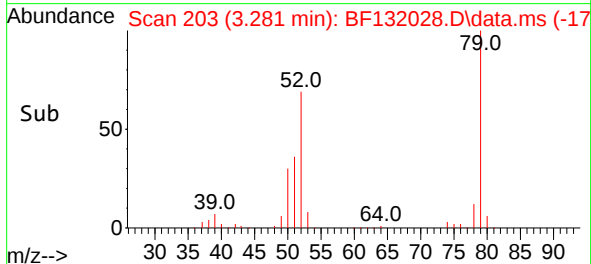
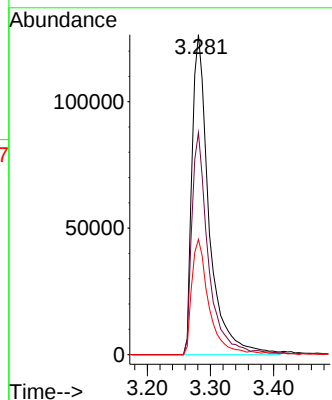
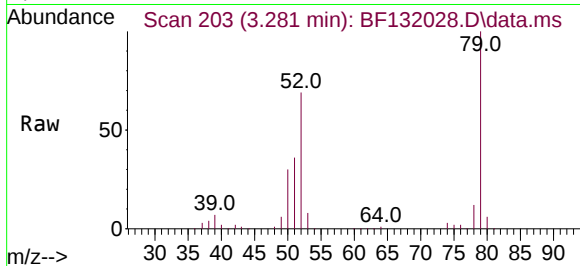
#3  
Pyridine  
Concen: 39.921 ng  
RT: 3.281 min Scan# 203  
Delta R.T. 0.082 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD

Tgt Ion: 79 Resp: 237536  
Ion Ratio Lower Upper  
79 100  
52 69.4 53.7 80.5  
51 36.0 28.6 43.0

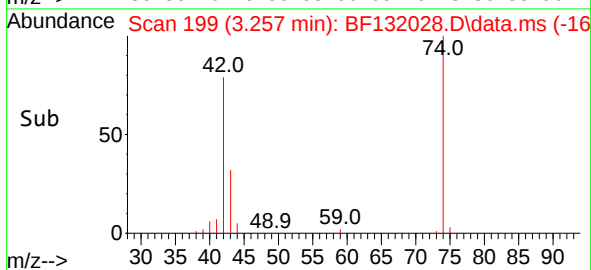
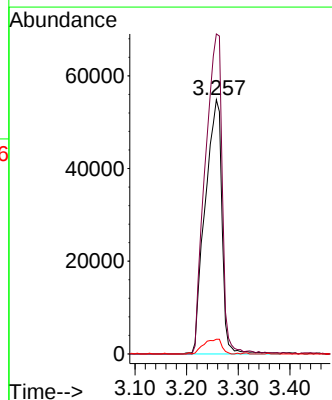
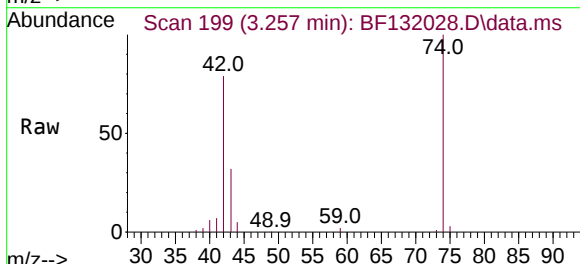
Manual Integrations  
APPROVED

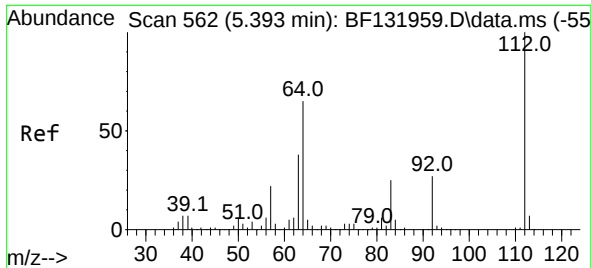
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#4  
n-Nitrosodimethylamine  
Concen: 44.283 ng  
RT: 3.257 min Scan# 199  
Delta R.T. 0.076 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion: 42 Resp: 123836  
Ion Ratio Lower Upper  
42 100  
74 125.9 94.8 142.2  
44 5.7 4.5 6.7





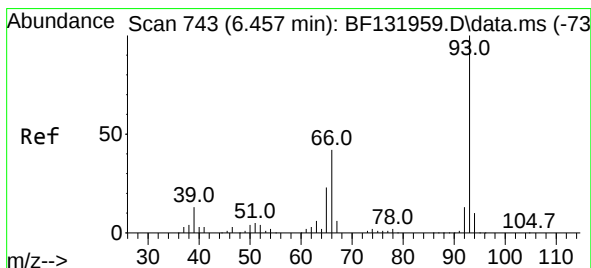
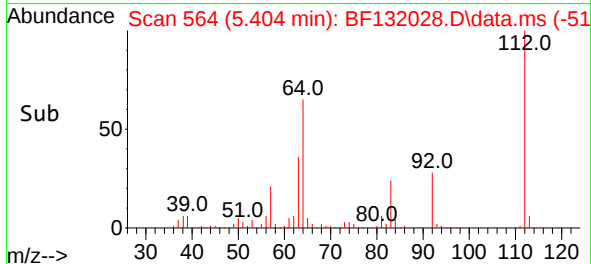
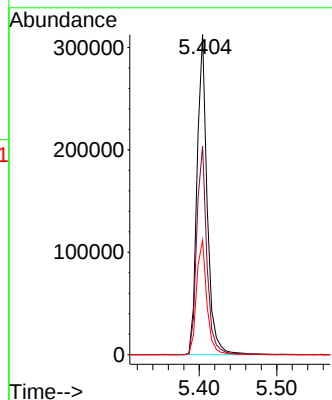
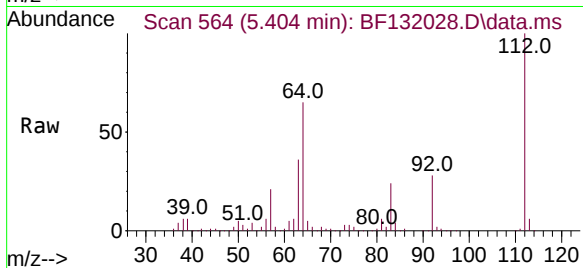
#5  
2-Fluorophenol  
Concen: 58.485 ng  
RT: 5.404 min Scan# 50  
Delta R.T. 0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD

Tgt Ion:112 Resp: 283905  
Ion Ratio Lower Upper  
112 100  
64 65.2 51.9 77.9  
63 35.8 30.2 45.2

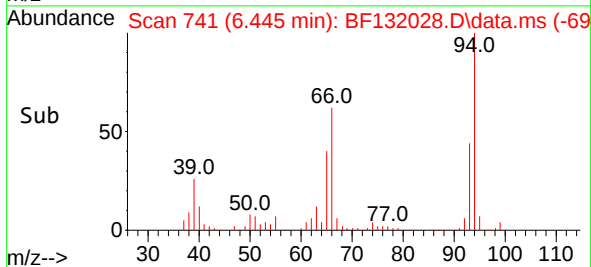
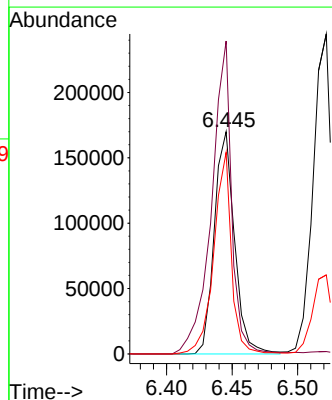
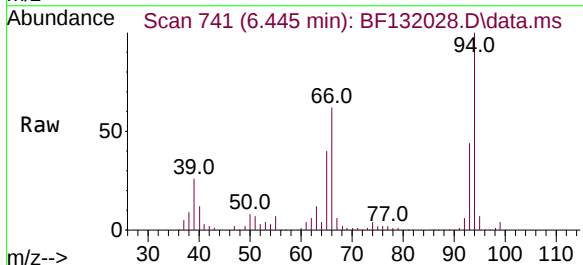
Manual Integrations  
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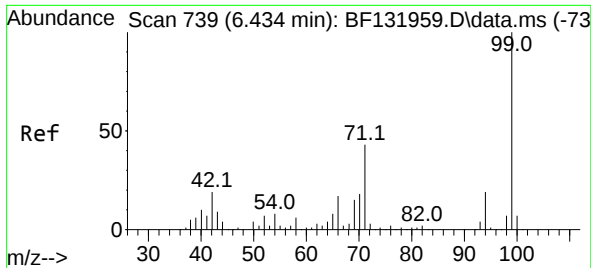
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#6  
Aniline  
Concen: 21.585 ng  
RT: 6.445 min Scan# 741  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

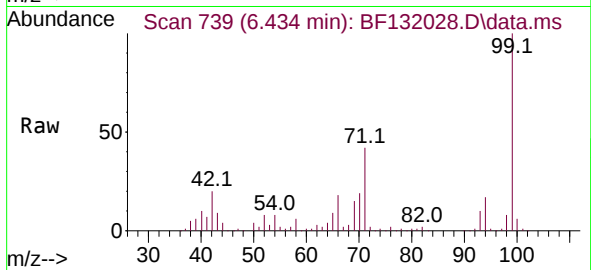
Tgt Ion: 93 Resp: 182787  
Ion Ratio Lower Upper  
93 100  
66 140.9 34.6 51.8#  
65 90.7 18.2 27.2#





#7  
Phenol-d6  
Concen: 100.857 ng  
RT: 6.434 min Scan# 739  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

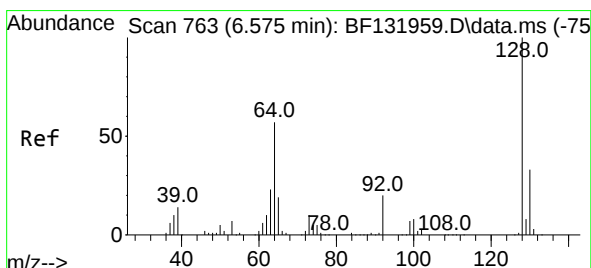
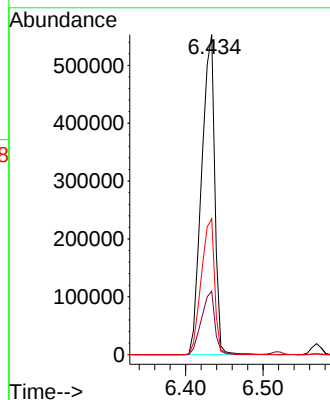
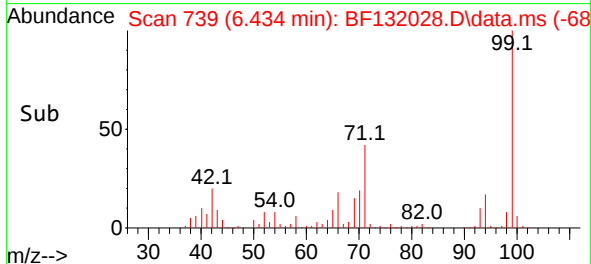
Instrument :  
BNA\_F  
Client SampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion: 99 Resp: 649135  
Ion Ratio Lower Upper  
99 100  
42 19.8 15.4 23.2  
71 42.5 34.6 51.8

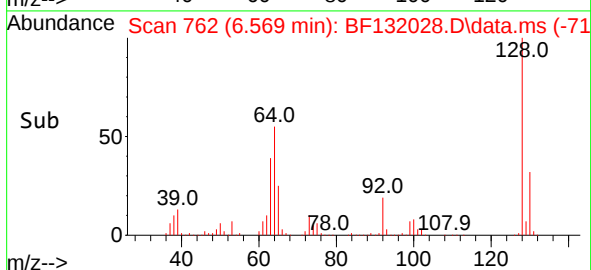
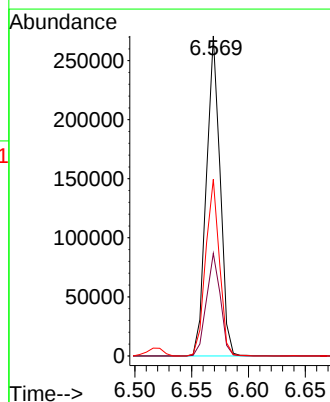
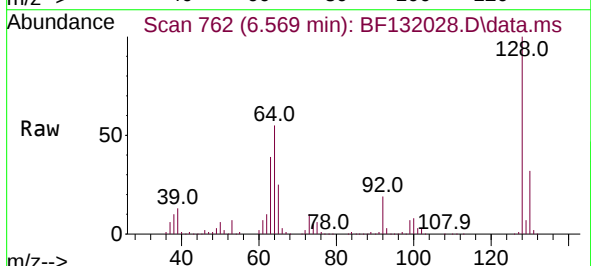
Manual Integrations  
APPROVED

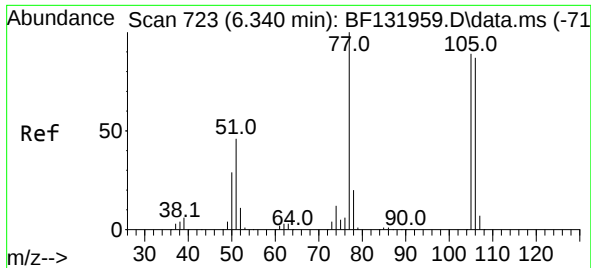
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#8  
2-Chlorophenol  
Concen: 46.910 ng  
RT: 6.569 min Scan# 762  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

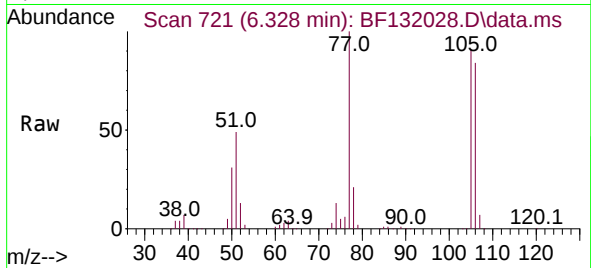
Tgt Ion:128 Resp: 228469  
Ion Ratio Lower Upper  
128 100  
130 32.1 12.5 52.5  
64 55.2 37.6 77.6





#9  
Benzaldehyde  
Concen: 33.118 ng  
RT: 6.328 min Scan# 721  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

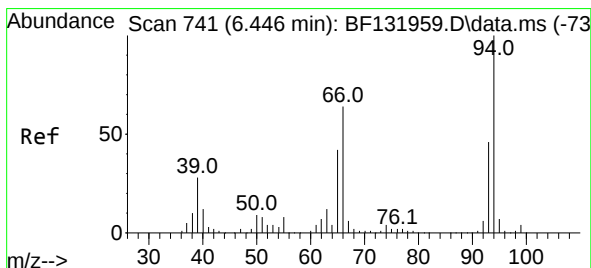
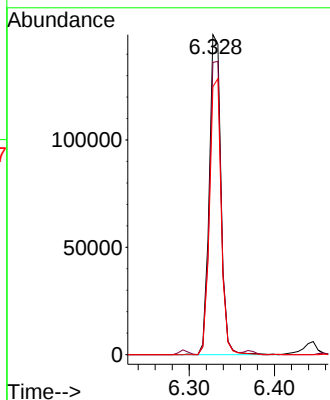
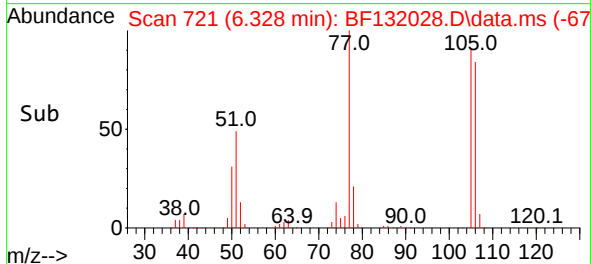
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion: 77 Resp: 141829  
Ion Ratio Lower Upper  
77 100  
105 91.3 69.0 109.0  
106 83.7 67.0 107.0

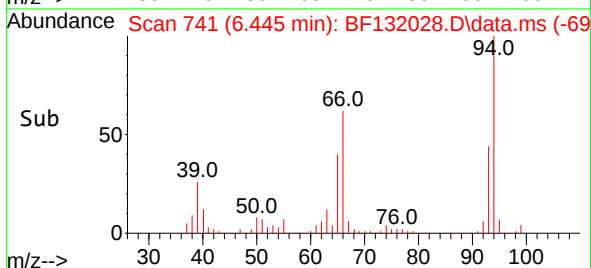
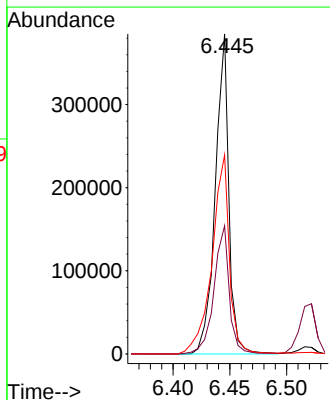
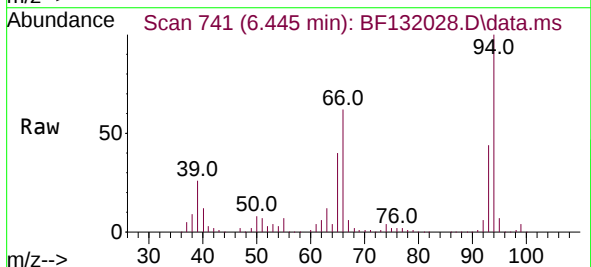
Manual Integrations  
APPROVED

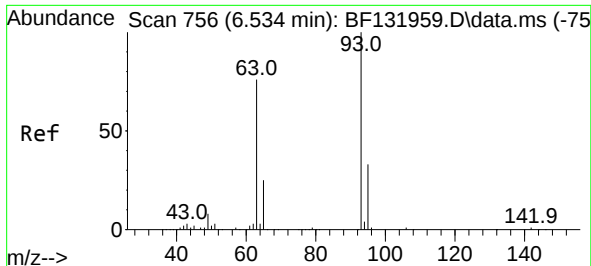
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#10  
Phenol  
Concen: 44.431 ng  
RT: 6.445 min Scan# 741  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion: 94 Resp: 319010  
Ion Ratio Lower Upper  
94 100  
65 40.0 22.2 62.2  
66 62.2 44.4 84.4





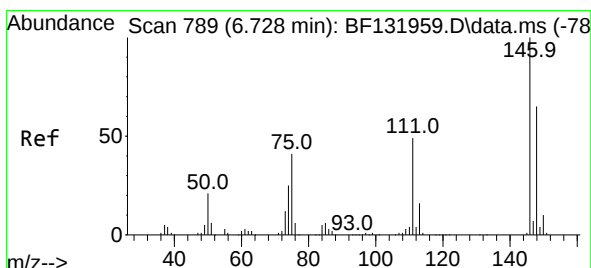
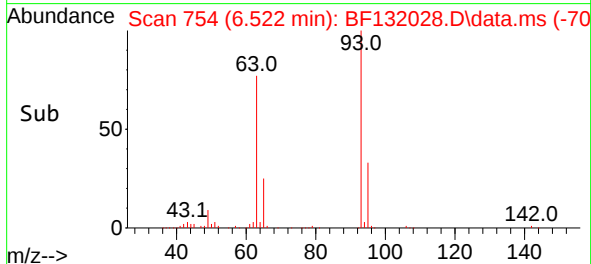
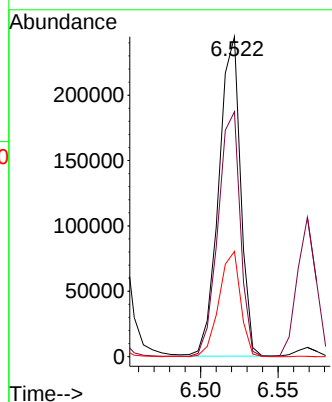
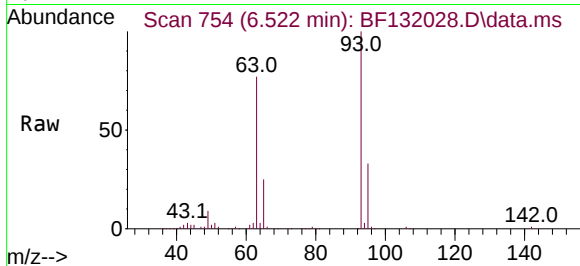
#11  
bis(2-Chloroethyl)ether  
Concen: 44.319 ng  
RT: 6.522 min Scan# 754  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD

Tgt Ion: 93 Resp: 239875  
Ion Ratio Lower Upper  
93 100  
63 76.5 55.5 95.5  
95 32.9 13.1 53.1

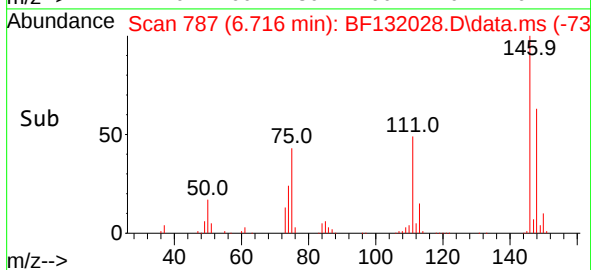
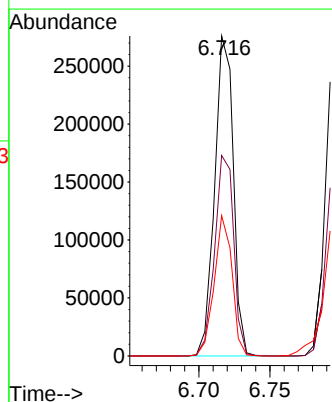
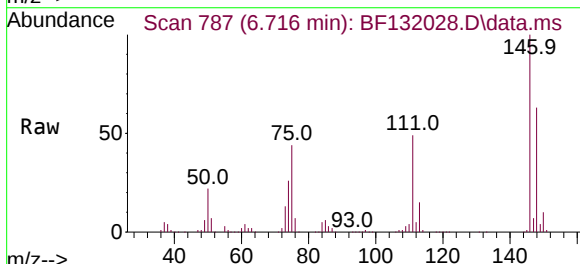
Manual Integrations  
APPROVED

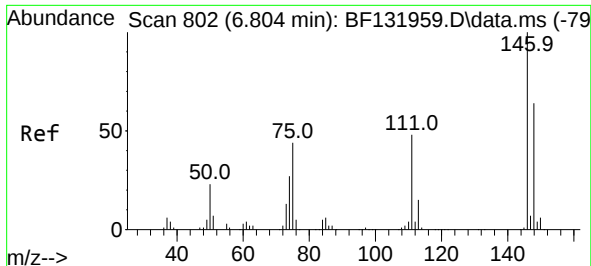
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#12  
1,3-Dichlorobenzene  
Concen: 46.406 ng  
RT: 6.716 min Scan# 787  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion:146 Resp: 251742  
Ion Ratio Lower Upper  
146 100  
148 62.6 51.7 77.5  
75 43.8 32.7 49.1





#13

1,4-Dichlorobenzene

Concen: 46.432 ng

RT: 6.798 min Scan# 80

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:146 Resp: 25485

Ion Ratio Lower Upper

146 100

148 64.8 51.0 76.6

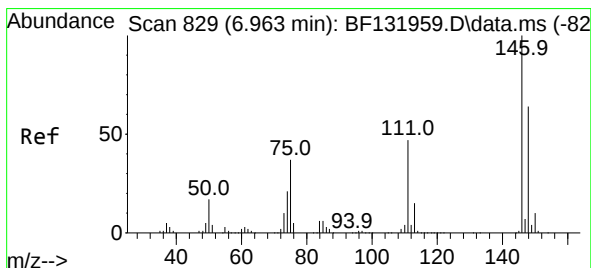
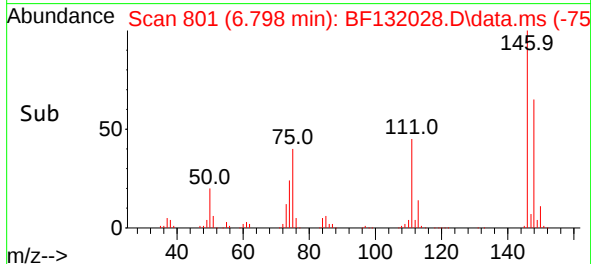
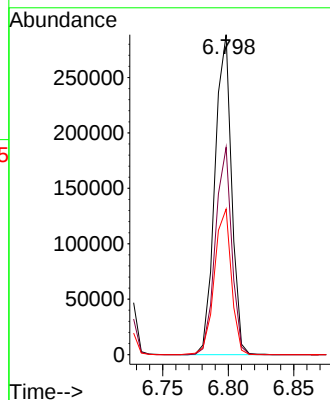
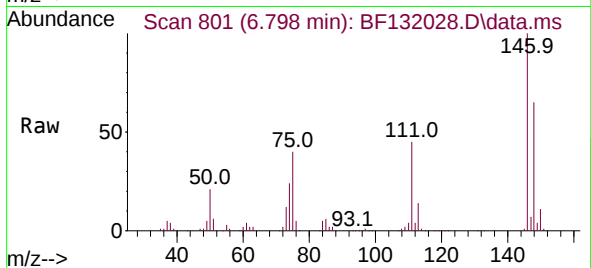
111 45.5 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#14

1,2-Dichlorobenzene

Concen: 46.389 ng

RT: 6.951 min Scan# 827

Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

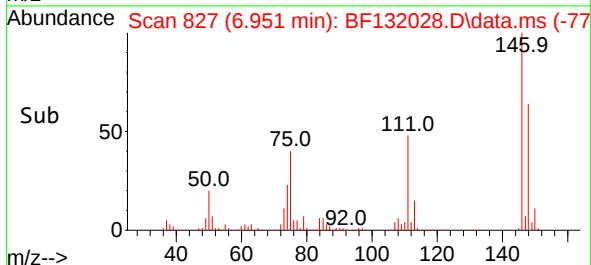
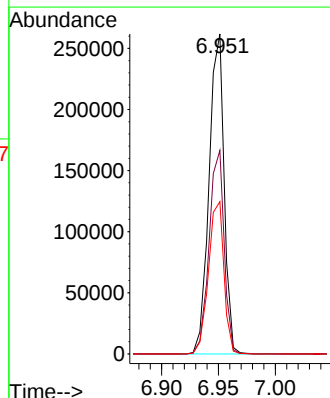
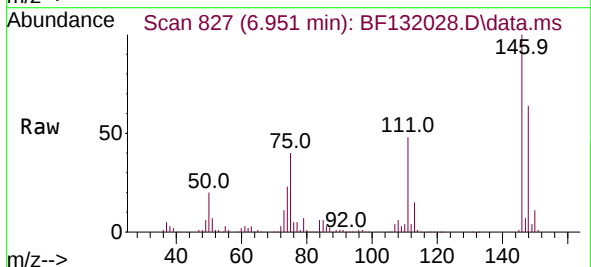
Tgt Ion:146 Resp: 241825

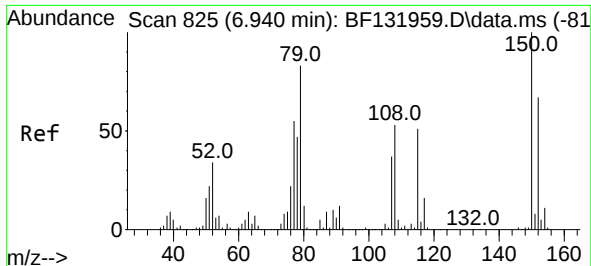
Ion Ratio Lower Upper

146 100

148 63.6 51.4 77.0

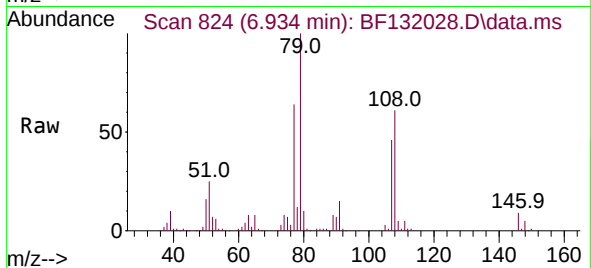
111 47.6 37.7 56.5





#15  
Benzyl Alcohol  
Concen: 45.072 ng  
RT: 6.934 min Scan# 825  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

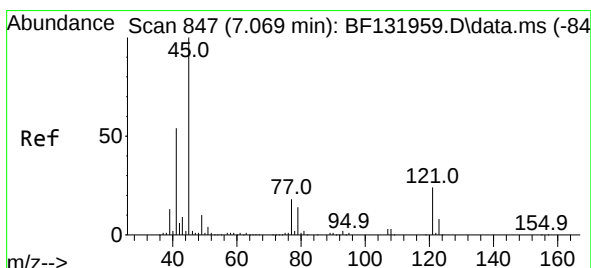
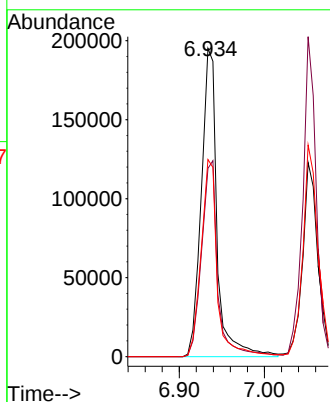
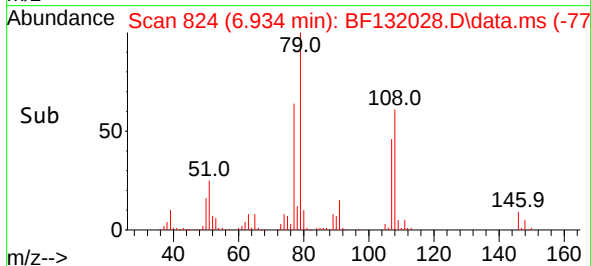
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion: 79 Resp: 252620  
Ion Ratio Lower Upper  
79 100  
108 61.1 51.7 77.5  
77 63.9 52.9 79.3

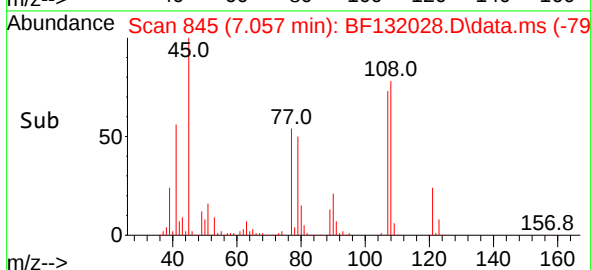
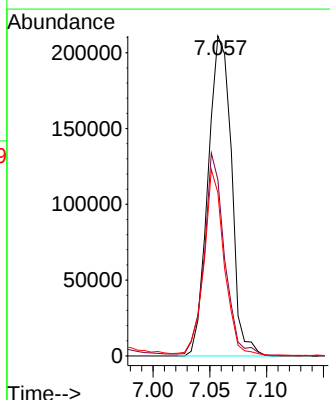
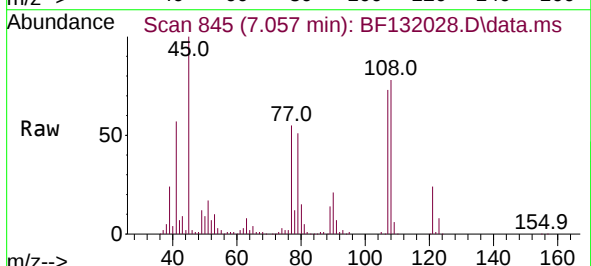
Manual Integrations  
APPROVED

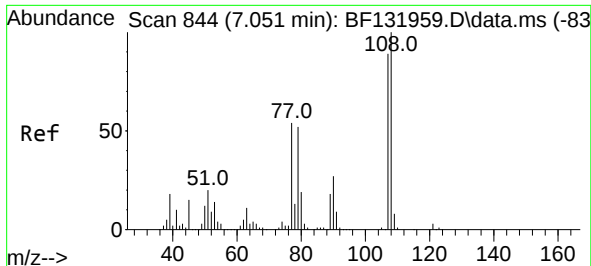
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 44.251 ng  
RT: 7.057 min Scan# 845  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

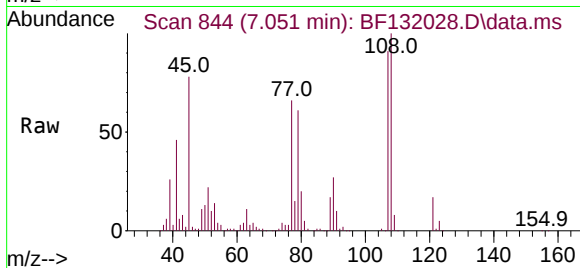
Tgt Ion: 45 Resp: 302255  
Ion Ratio Lower Upper  
45 100  
77 55.0 0.0 38.1#  
79 51.0 0.0 34.6#





#17  
2-Methylphenol  
Concen: 42.961 ng  
RT: 7.051 min Scan# 844  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

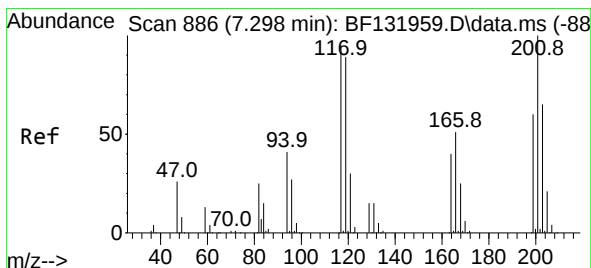
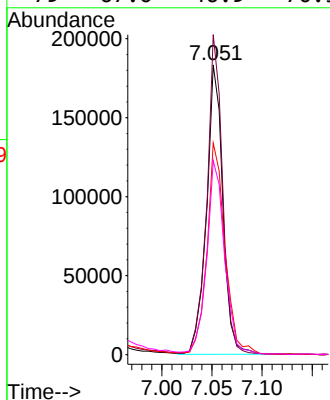
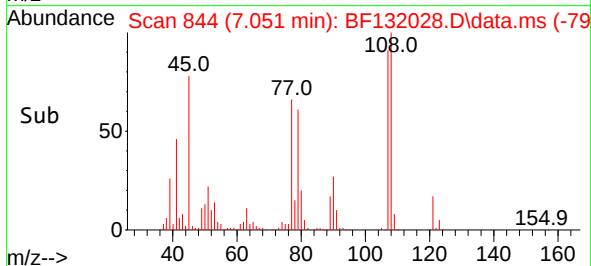
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 207062 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 108       | 110.5 | 90.0  | 135.0  |
| 77        | 73.0  | 48.8  | 73.2   |
| 79        | 67.0  | 46.9  | 70.3   |

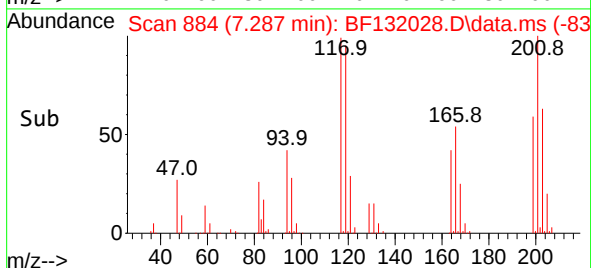
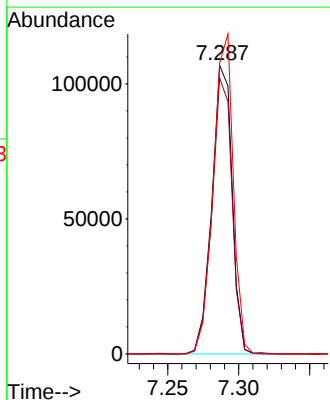
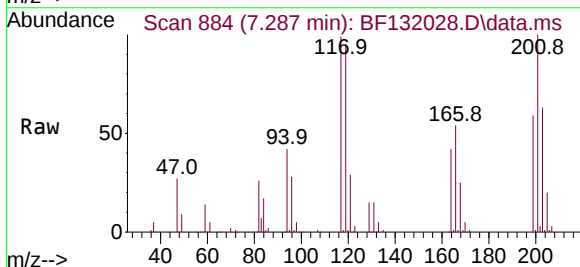
Manual Integrations  
APPROVED

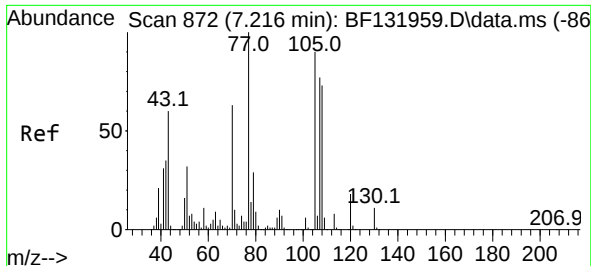
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#18  
Hexachloroethane  
Concen: 46.618 ng  
RT: 7.287 min Scan# 884  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 105819 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 95.5  | 75.4  | 113.0  |
| 201       | 100.7 | 84.2  | 126.4  |





#19

n-Nitroso-di-n-propylamine

Concen: 43.228 ng

RT: 7.204 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion: 70 Resp: 20126

Ion Ratio Lower Upper

70 100

42 54.3 44.3 66.5

101 9.1 7.5 11.3

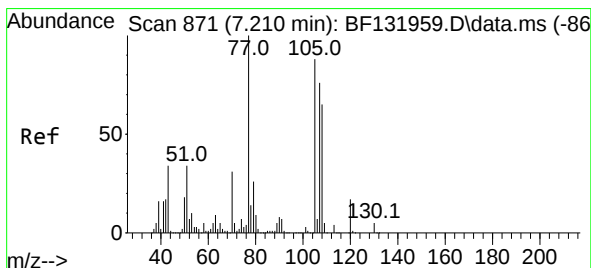
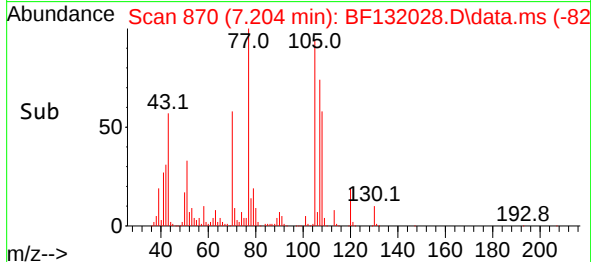
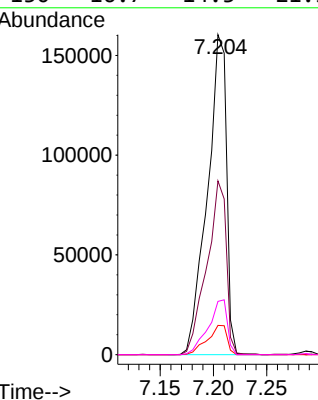
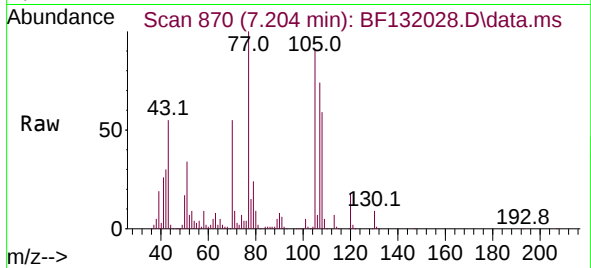
130 16.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#20

3+4-Methylphenols

Concen: 43.688 ng

RT: 7.210 min Scan# 871

Delta R.T. -0.000 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Tgt Ion:107 Resp: 270332

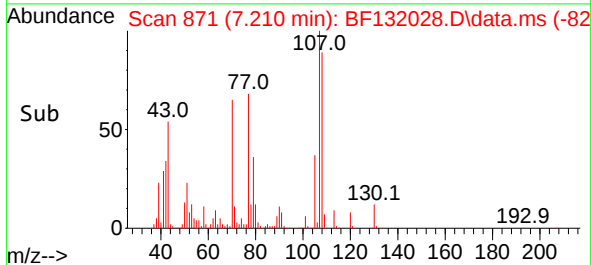
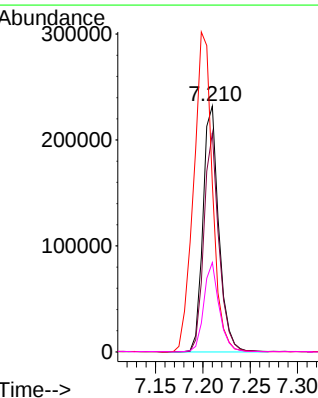
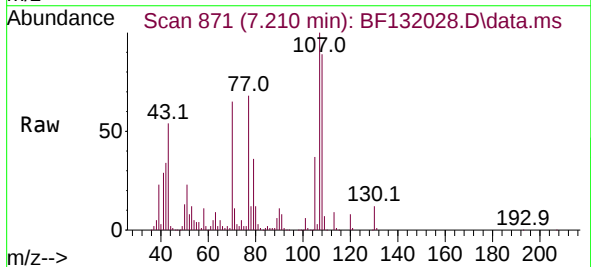
Ion Ratio Lower Upper

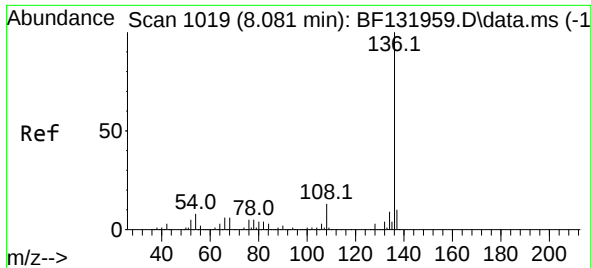
107 100

108 89.1 65.1 105.1

77 68.1 111.2 151.2#

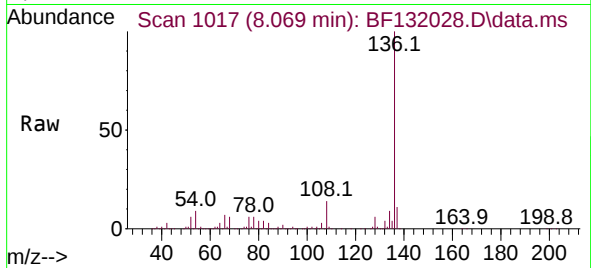
79 36.4 14.4 54.4





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.069 min Scan# 1019  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

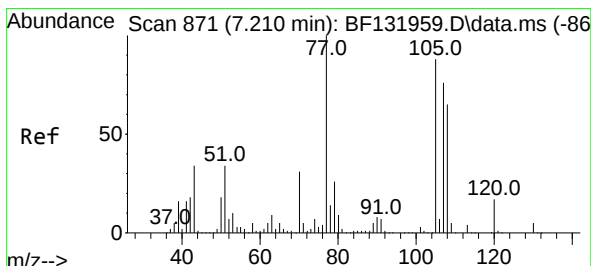
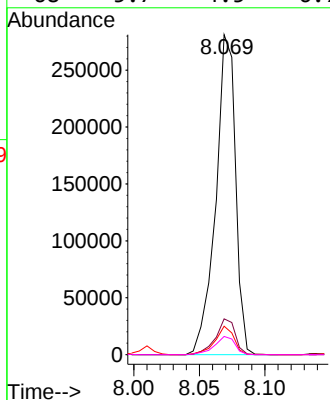
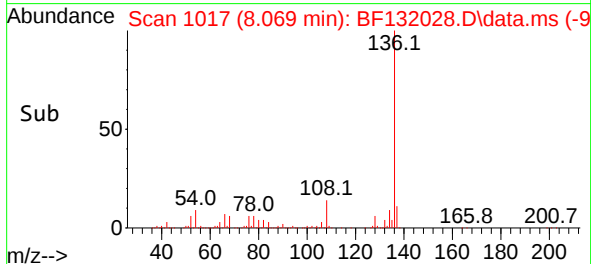
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:136 Resp: 296082  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.2 12.2  
54 8.9 6.6 9.8  
68 5.7 4.5 6.7

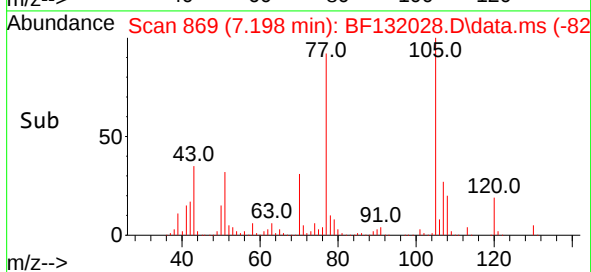
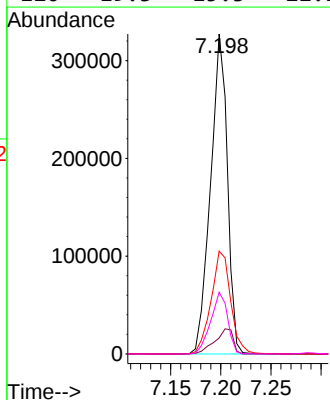
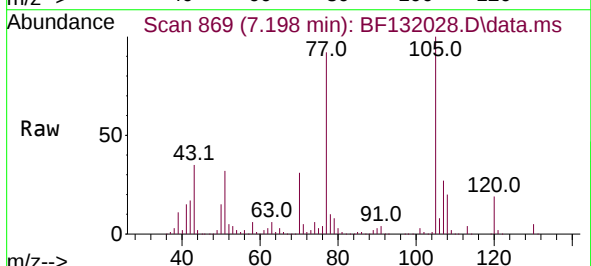
Manual Integrations  
APPROVED

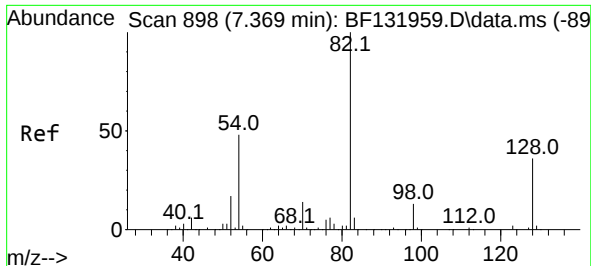
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#22  
Acetophenone  
Concen: 44.232 ng  
RT: 7.198 min Scan# 869  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion:105 Resp: 381303  
Ion Ratio Lower Upper  
105 100  
71 5.0 4.6 7.0  
51 32.1 30.6 46.0  
120 19.3 15.3 22.9





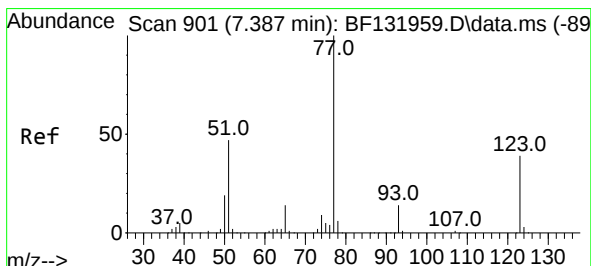
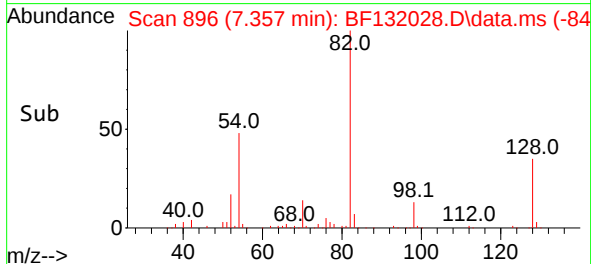
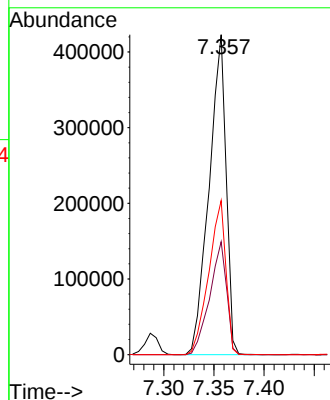
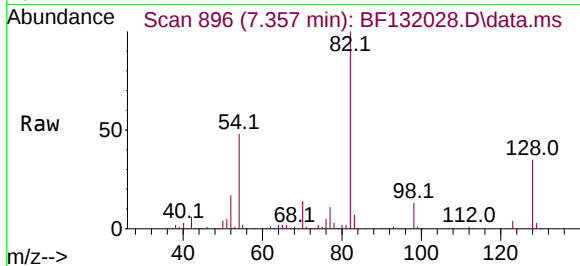
#23  
Nitrobenzene-d5  
Concen: 69.974 ng  
RT: 7.357 min Scan# 898  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Instrument :  
BNA\_F  
Client SampleId :  
H-5-MIDDLE(4-8)MSD

Tgt Ion: 82 Resp: 499187  
Ion Ratio Lower Upper  
82 100  
128 35.3 28.7 43.1  
54 48.1 38.1 57.1

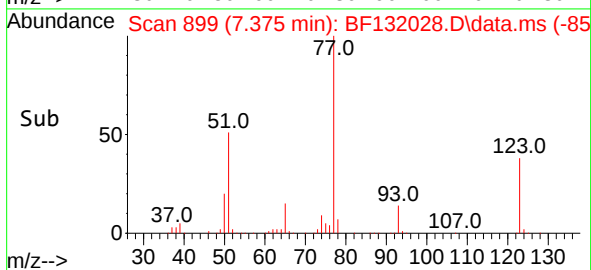
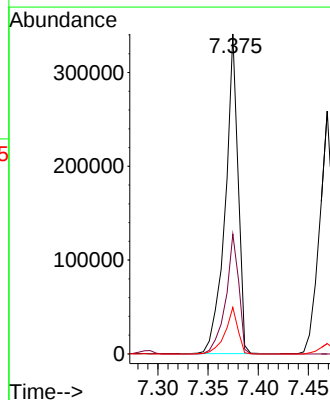
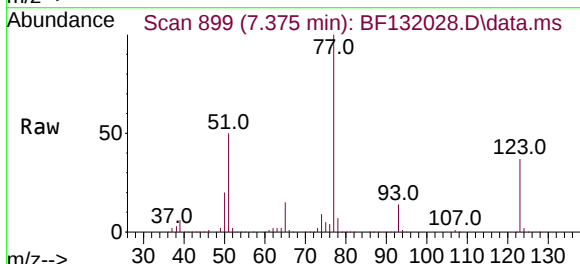
Manual Integrations  
APPROVED

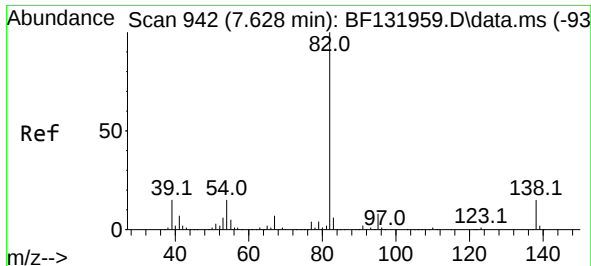
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#24  
Nitrobenzene  
Concen: 41.881 ng  
RT: 7.375 min Scan# 899  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

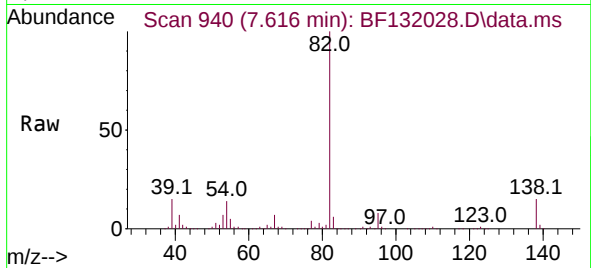
Tgt Ion: 77 Resp: 304165  
Ion Ratio Lower Upper  
77 100  
123 37.4 30.9 46.3  
65 14.6 10.8 16.2





#25  
Isophorone  
Concen: 41.763 ng  
RT: 7.616 min Scan# 94  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

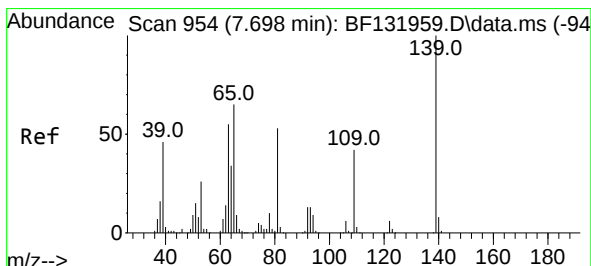
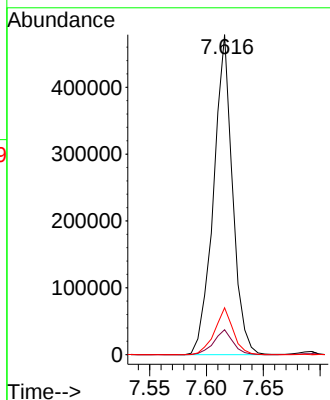
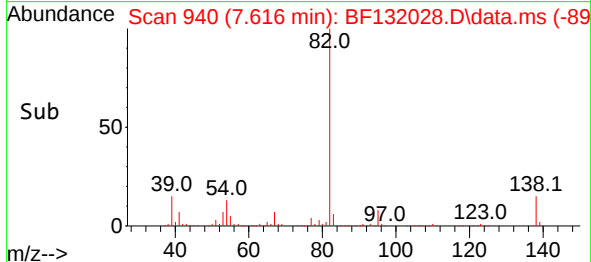
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion: 82 Resp: 556588  
Ion Ratio Lower Upper  
82 100  
95 7.8 6.5 9.7  
138 14.6 11.9 17.9

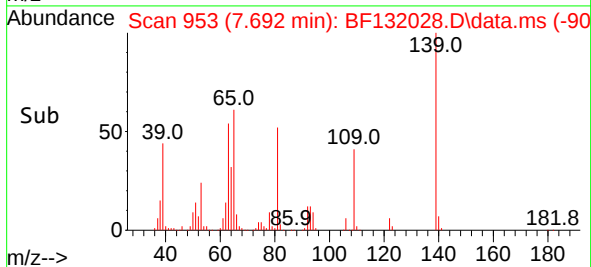
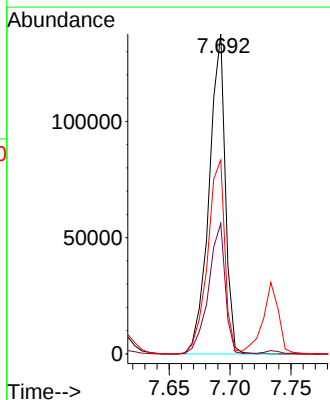
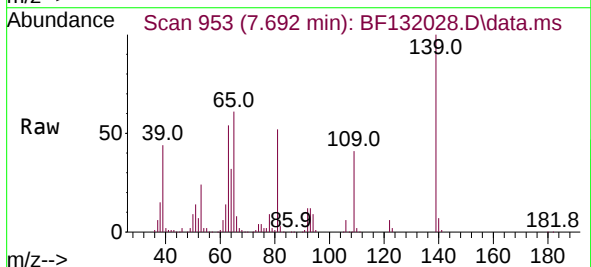
Manual Integrations  
APPROVED

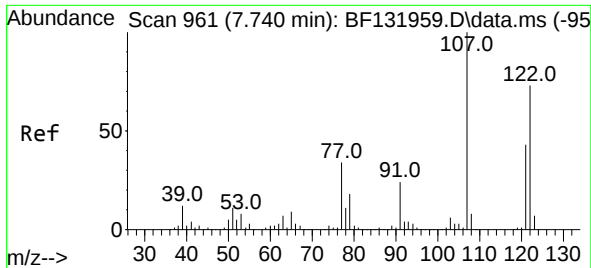
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#26  
2-Nitrophenol  
Concen: 44.792 ng  
RT: 7.692 min Scan# 953  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

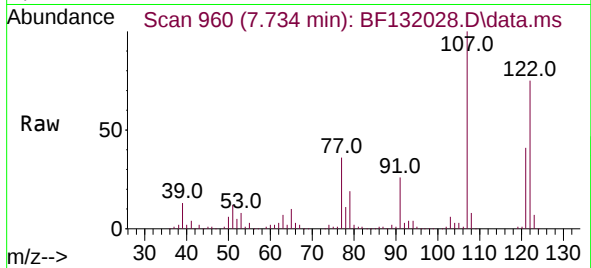
Tgt Ion:139 Resp: 128000  
Ion Ratio Lower Upper  
139 100  
109 40.8 33.9 50.9  
65 60.6 51.6 77.4





#27  
2,4-Dimethylphenol  
Concen: 44.393 ng  
RT: 7.734 min Scan# 90  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

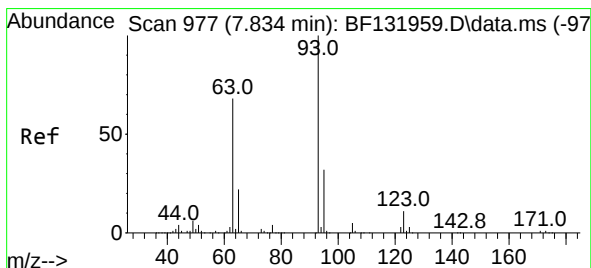
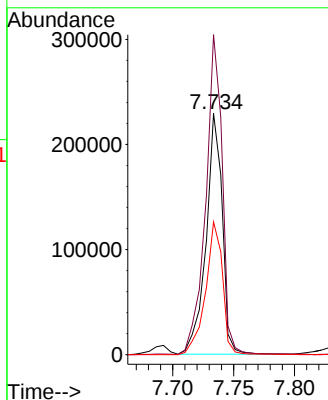
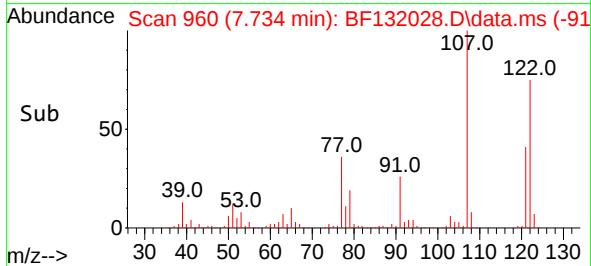
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:122 Resp: 21175  
Ion Ratio Lower Upper  
122 100  
107 132.6 109.4 164.0  
121 55.0 47.2 70.8

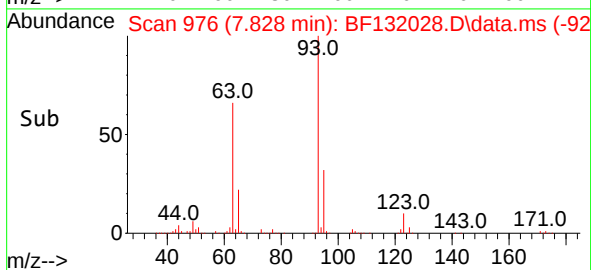
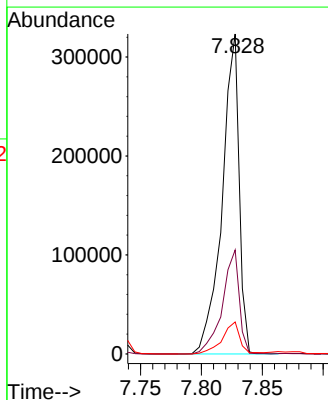
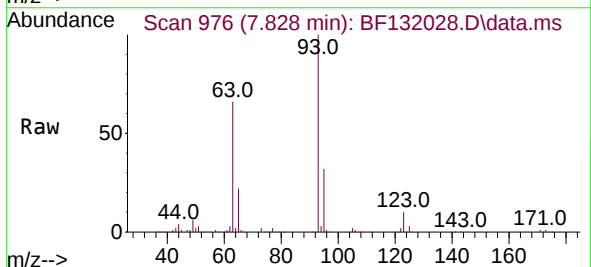
Manual Integrations  
APPROVED

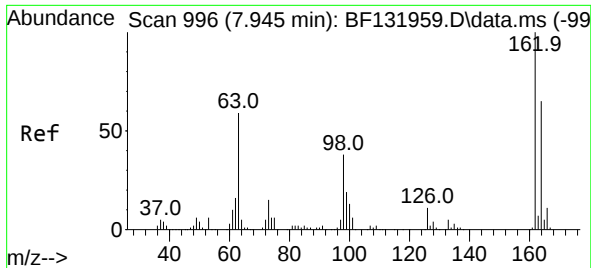
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#28  
bis(2-Chloroethoxy)methane  
Concen: 42.437 ng  
RT: 7.828 min Scan# 976  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion: 93 Resp: 313016  
Ion Ratio Lower Upper  
93 100  
95 32.5 25.8 38.6  
123 10.0 8.4 12.6





#29

2,4-Dichlorophenol

Concen: 43.882 ng

RT: 7.939 min Scan# 99

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:162 Resp: 214393

Ion Ratio Lower Upper

162 100

164 65.7 45.2 85.2

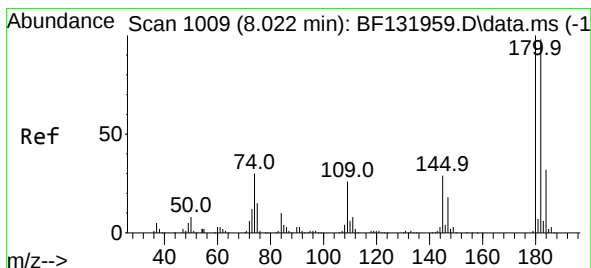
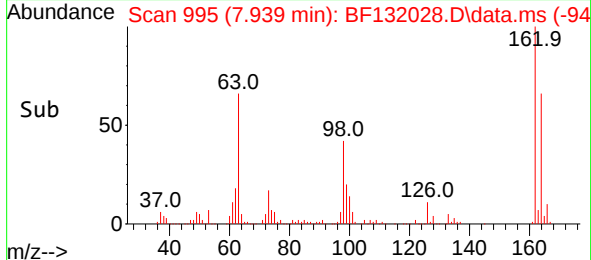
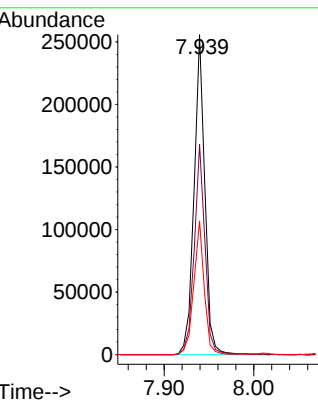
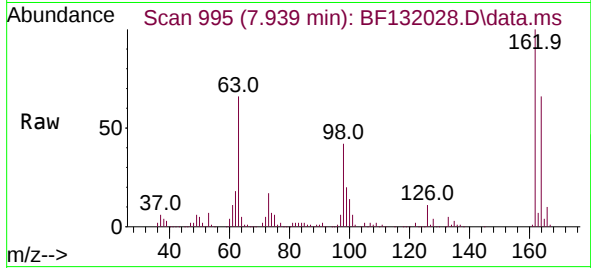
98 41.8 17.5 57.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#30

1,2,4-Trichlorobenzene

Concen: 44.259 ng

RT: 8.010 min Scan# 1007

Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

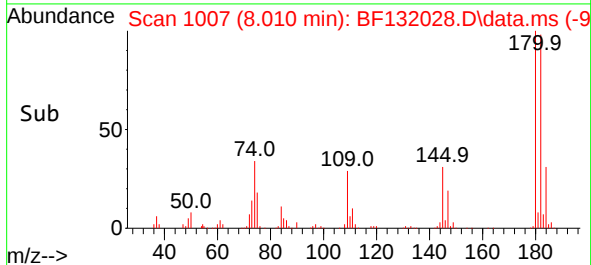
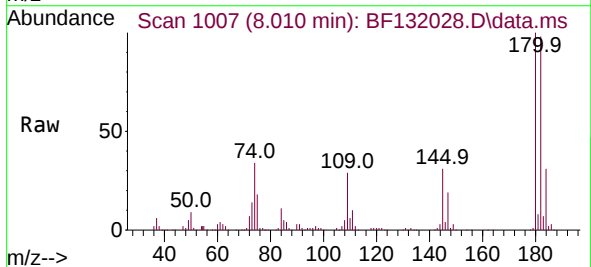
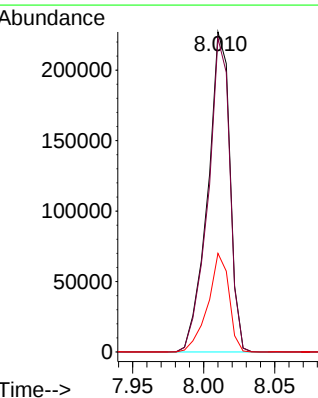
Tgt Ion:180 Resp: 247650

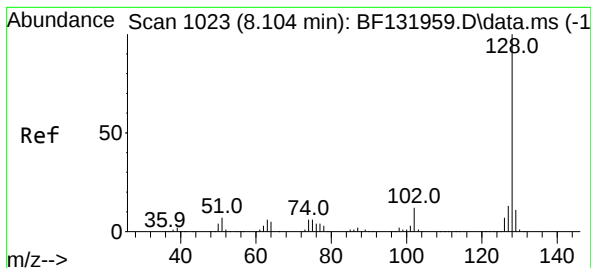
Ion Ratio Lower Upper

180 100

182 98.0 78.4 117.6

145 30.8 23.2 34.8





#31

Naphthalene

Concen: 43.275 ng

RT: 8.092 min Scan# 10

Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

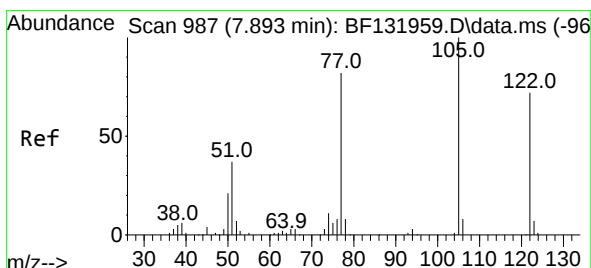
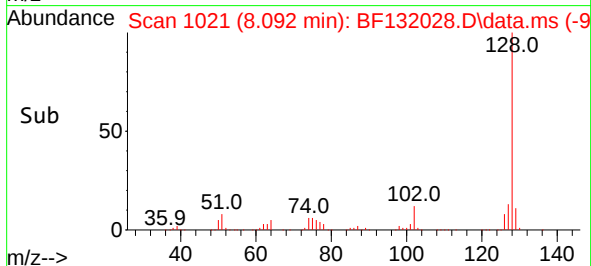
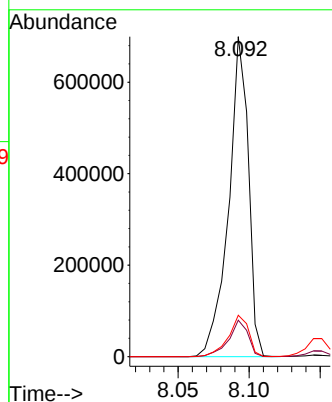
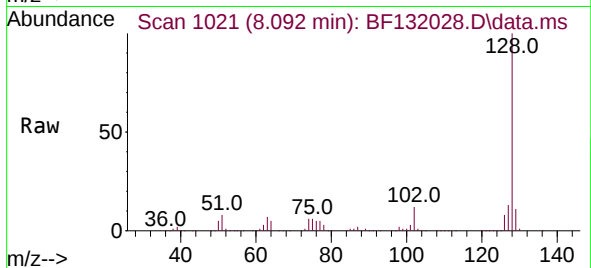
H-5-MIDDLE(4-8)MSD

Tgt Ion:128 Resp: 677137  
 Ion Ratio Lower Upper  
 128 100  
 129 11.4 8.8 13.2  
 127 12.9 10.5 15.7

Manual Integrations

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Reviewed By :Christian Giraldo 01/12/2023  
 Supervised By :Jagrut Upadhyay 01/12/2023



#32

Benzoic acid

Concen: 31.058 ng m

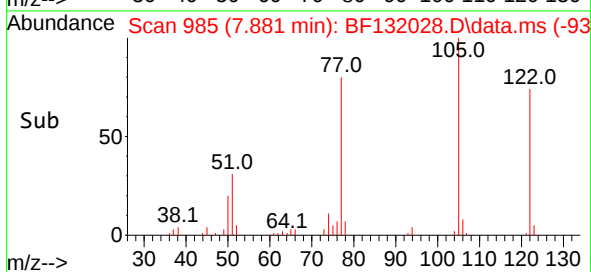
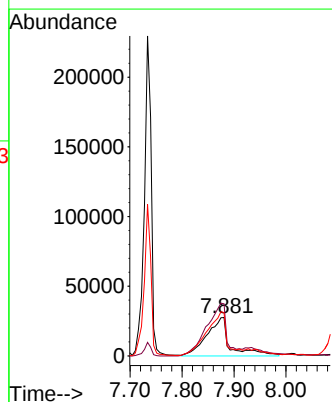
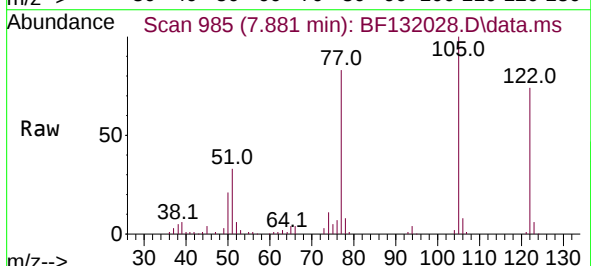
RT: 7.881 min Scan# 985

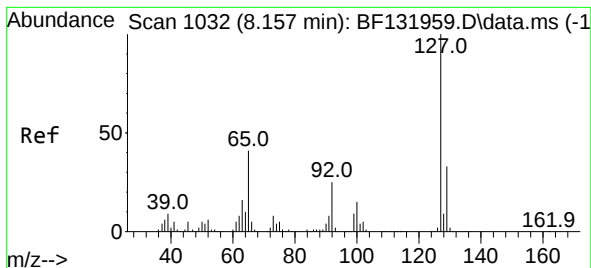
Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Tgt Ion:122 Resp: 85887  
 Ion Ratio Lower Upper  
 122 100  
 105 135.9 116.3 156.3  
 77 112.4 92.7 132.7





#33

4-Chloroaniline

Concen: 8.799 ng

RT: 8.151 min Scan# 1031

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:127 Resp: 56816

Ion Ratio Lower Upper

127 100

129 30.2 26.5 39.7

65 34.3 33.1 49.7

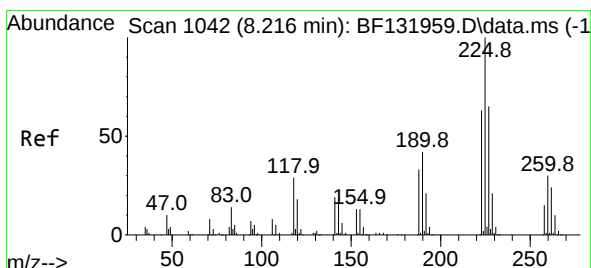
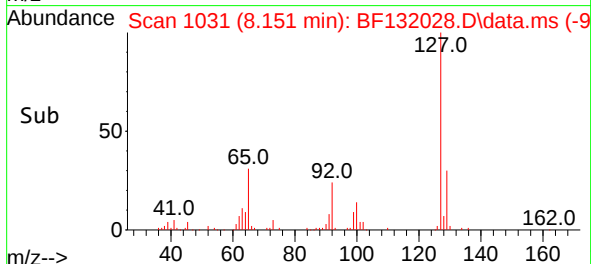
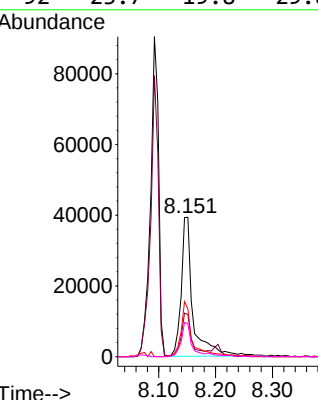
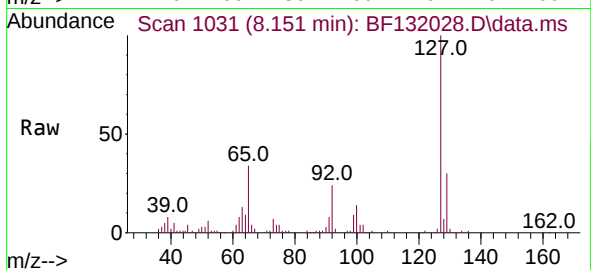
92 23.7 19.8 29.8

Manual Integrations

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Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#34

Hexachlorobutadiene

Concen: 43.342 ng

RT: 8.204 min Scan# 1040

Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

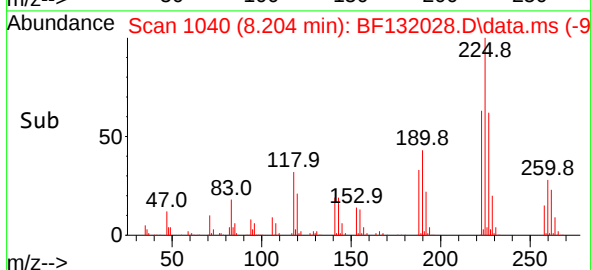
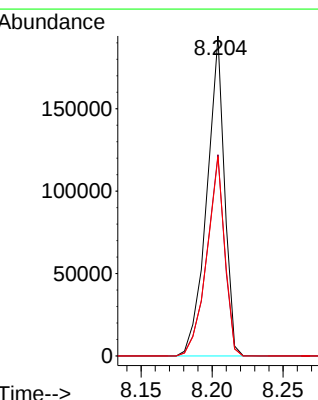
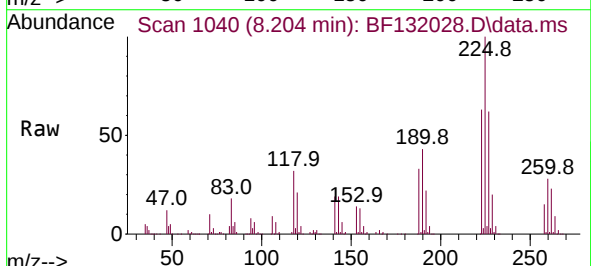
Tgt Ion:225 Resp: 168141

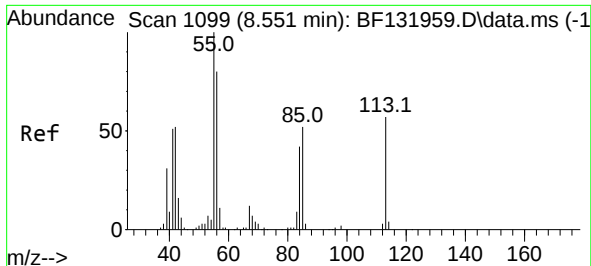
Ion Ratio Lower Upper

225 100

223 62.9 50.6 75.8

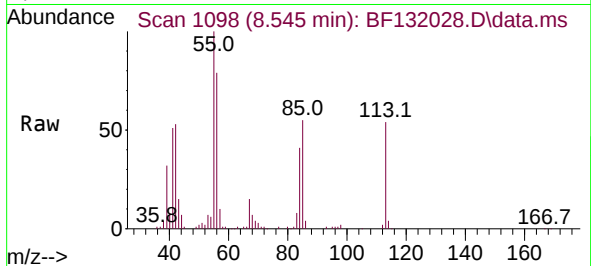
227 62.3 51.6 77.4





#35  
Caprolactam  
Concen: 40.922 ng m  
RT: 8.545 min Scan# 1099  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

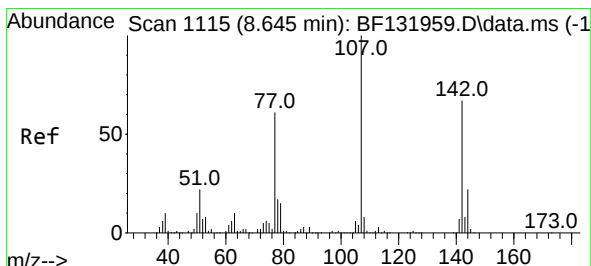
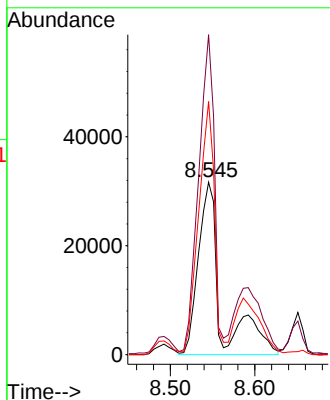
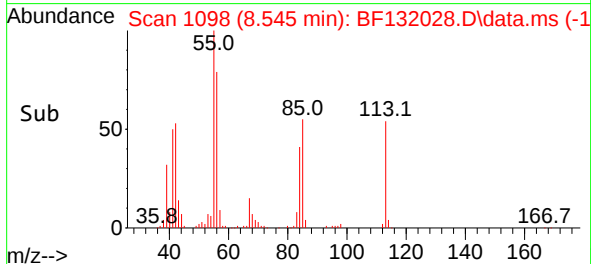
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:113 Resp: 58720  
Ion Ratio Lower Upper  
113 100  
55 185.6 154.4 194.4  
56 146.8 119.6 159.6

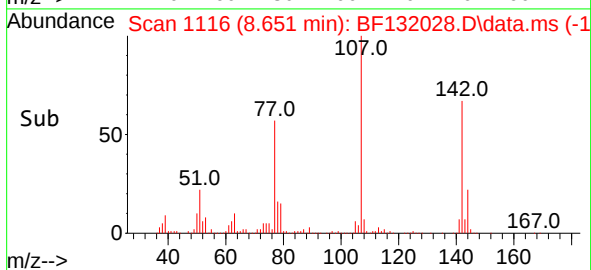
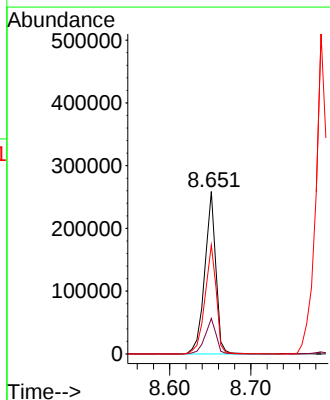
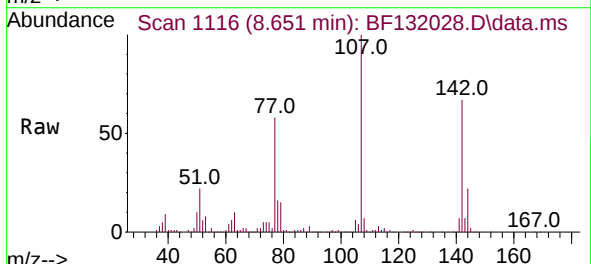
Manual Integrations  
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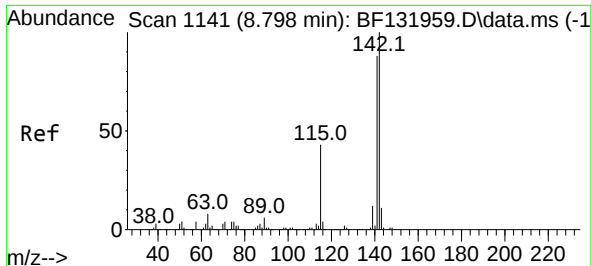
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#36  
4-Chloro-3-methylphenol  
Concen: 42.954 ng  
RT: 8.651 min Scan# 1116  
Delta R.T. 0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion:107 Resp: 246308  
Ion Ratio Lower Upper  
107 100  
144 21.9 17.4 26.2  
142 67.1 53.7 80.5





#37

2-Methylnaphthalene

Concen: 41.327 ng

RT: 8.786 min Scan# 1141

Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:142 Resp: 464434

Ion Ratio Lower Upper

142 100

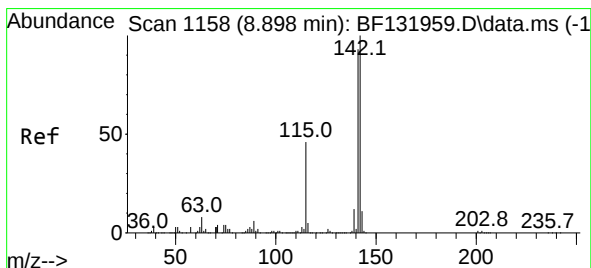
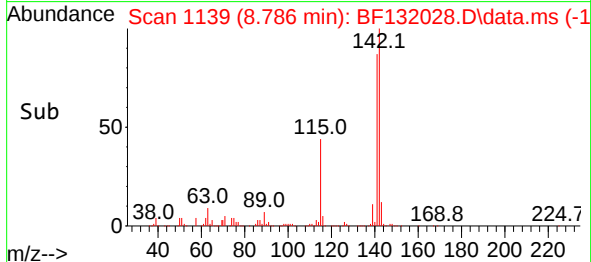
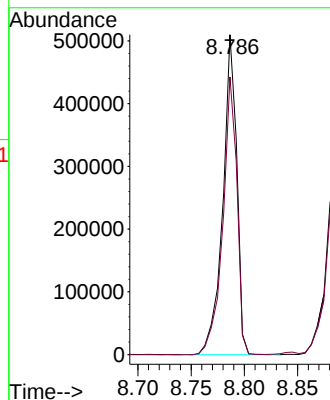
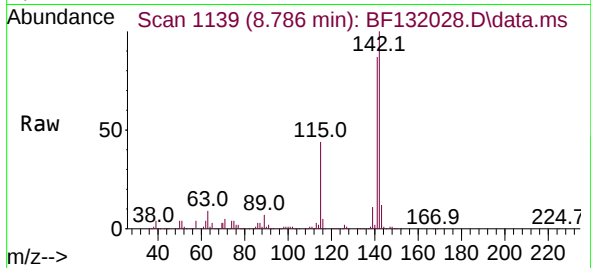
141 86.8 70.6 106.0

Manual Integrations

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Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#38

1-Methylnaphthalene

Concen: 40.870 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.012 min

Lab File: BF132028.D

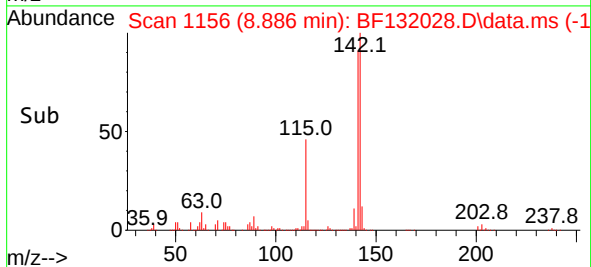
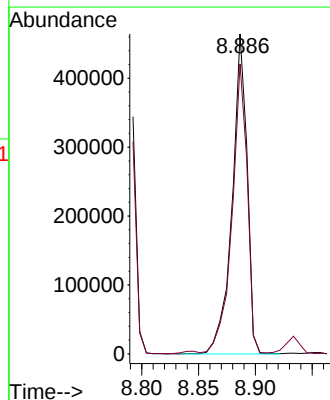
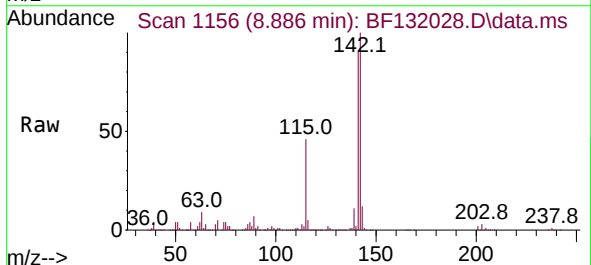
Acq: 11 Jan 2023 17:56

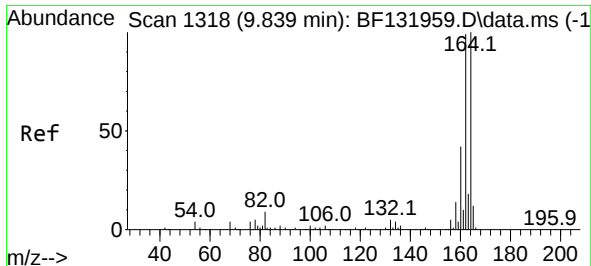
Tgt Ion:142 Resp: 425527

Ion Ratio Lower Upper

142 100

141 90.6 74.3 111.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.833 min Scan# 1318

Delta R.T. -0.006 min

Lab File: BF132028.D

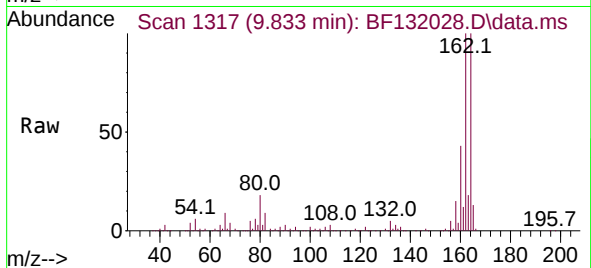
Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD



Tgt Ion:164 Resp: 173588

Ion Ratio Lower Upper

164 100

162 100.0 79.4 119.0

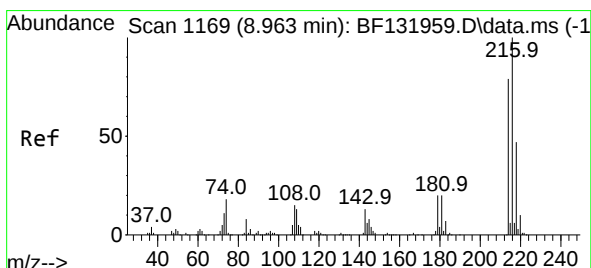
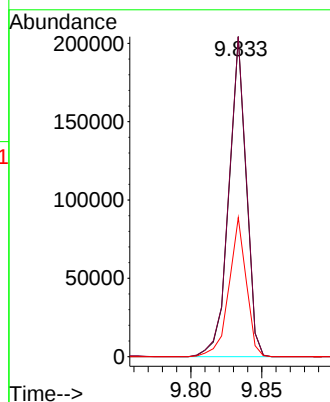
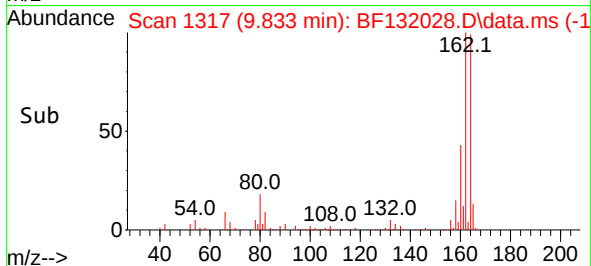
160 43.4 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#40

1,2,4,5-Tetrachlorobenzene

Concen: 43.975 ng

RT: 8.957 min Scan# 1168

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Tgt Ion:216 Resp: 268990

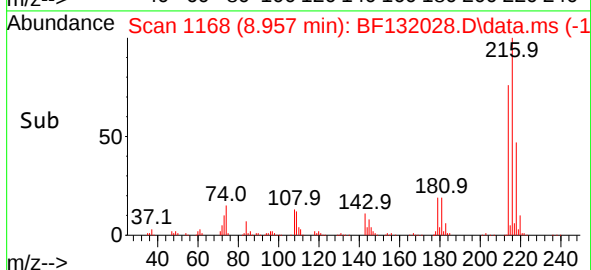
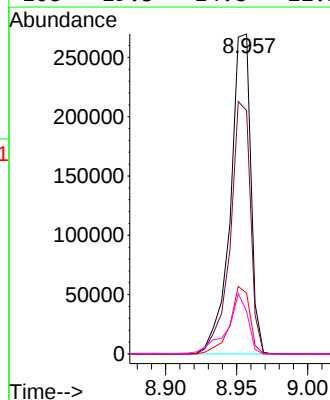
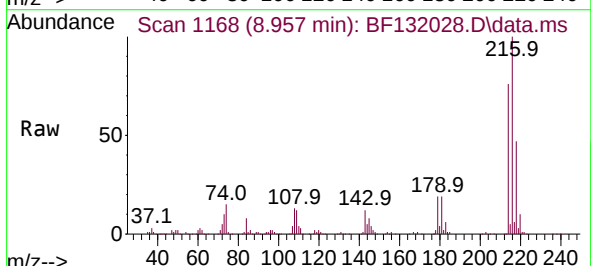
Ion Ratio Lower Upper

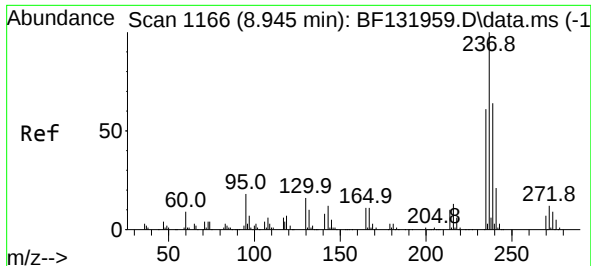
216 100

214 78.1 63.9 95.9

179 20.4 16.4 24.6

108 19.3 14.8 22.2





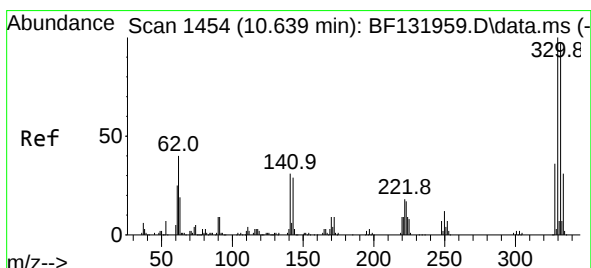
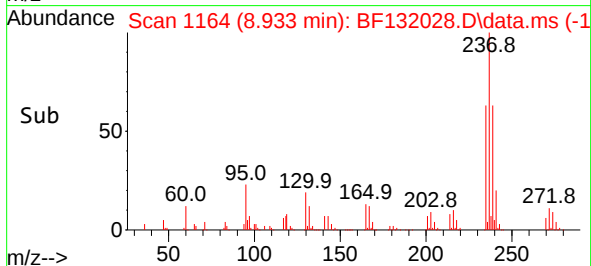
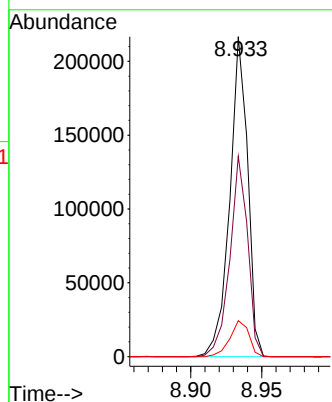
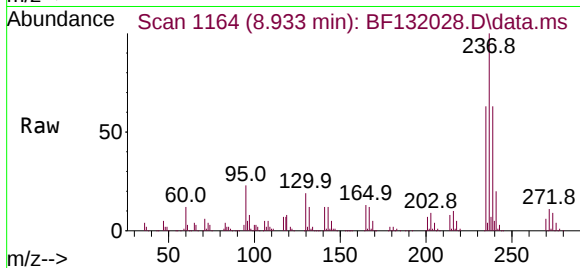
#41  
Hexachlorocyclopentadiene  
Concen: 64.300 ng  
RT: 8.933 min Scan# 1164  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD

Tgt Ion: 237 Resp: 190155  
Ion Ratio Lower Upper  
237 100  
235 62.6 41.2 81.2  
272 11.2 0.0 31.7

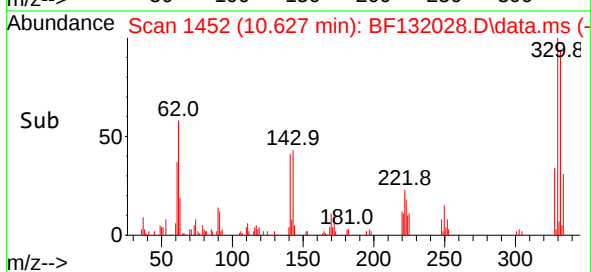
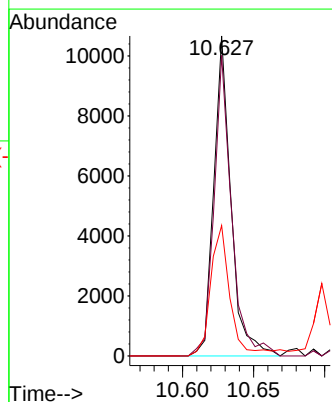
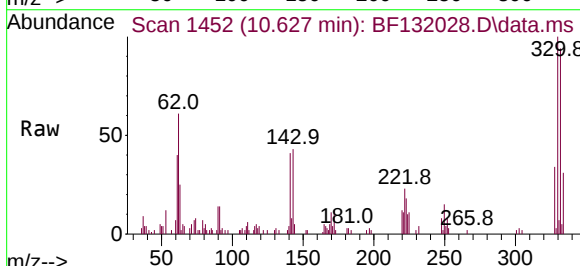
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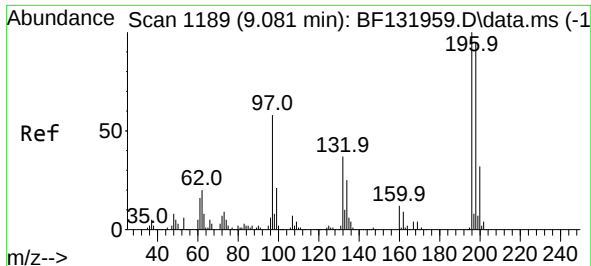
Reviewed By : Christian Giraldo 01/12/2023  
Supervised By : Jagrut Upadhyay 01/12/2023



#42  
2,4,6-Tribromophenol  
Concen: 4.508 ng  
RT: 10.627 min Scan# 1452  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion: 330 Resp: 8997  
Ion Ratio Lower Upper  
330 100  
332 96.0 76.9 115.3  
141 0.0 31.3 46.9#





#43

2,4,6-Trichlorophenol

Concen: 42.788 ng

RT: 9.075 min Scan# 1188

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:196 Resp: 15754

Ion Ratio Lower Upper

196 100

198 98.3 76.3 114.5

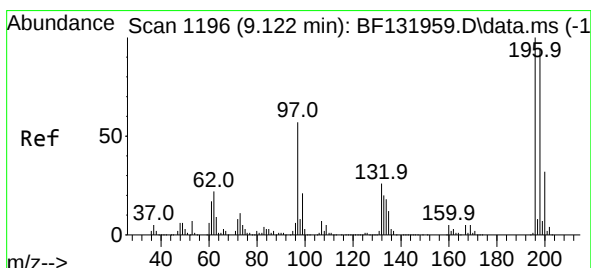
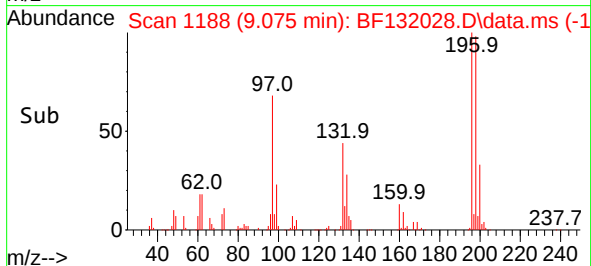
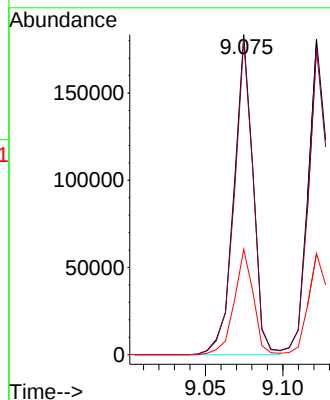
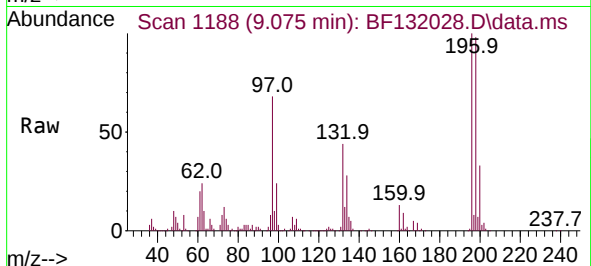
200 32.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#44

2,4,5-Trichlorophenol

Concen: 38.705 ng

RT: 9.122 min Scan# 1196

Delta R.T. -0.000 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Tgt Ion:196 Resp: 165906

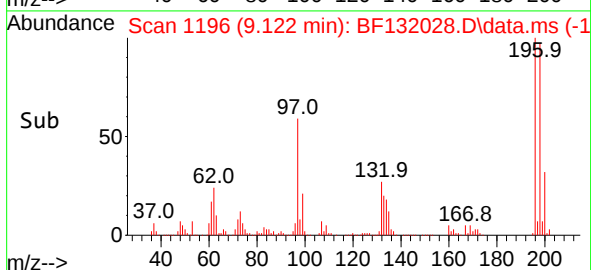
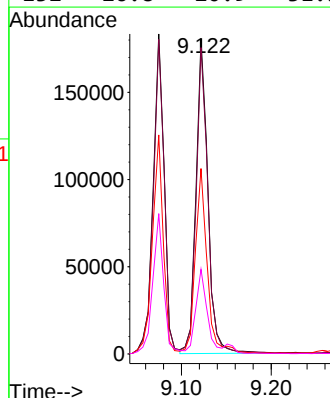
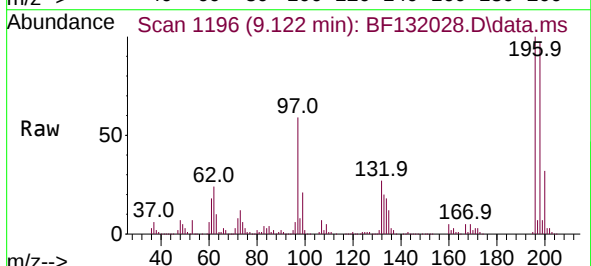
Ion Ratio Lower Upper

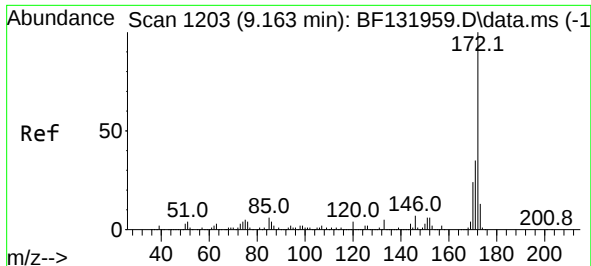
196 100

198 97.1 75.3 112.9

97 58.8 45.6 68.4

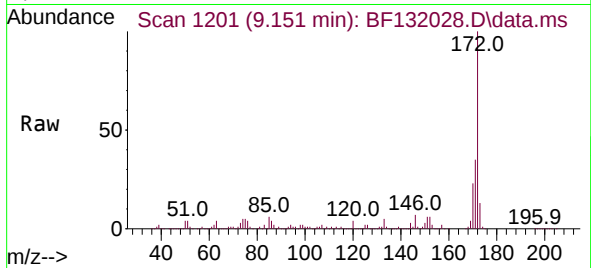
132 26.8 20.9 31.3





#45  
2-Fluorobiphenyl  
Concen: 71.145 ng  
RT: 9.151 min Scan# 1219  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

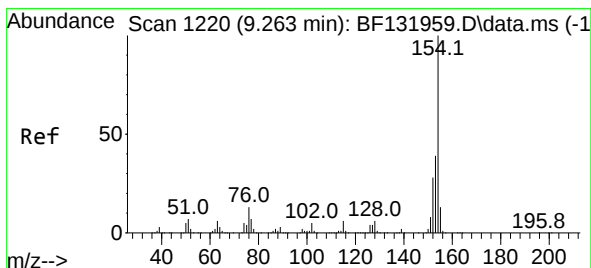
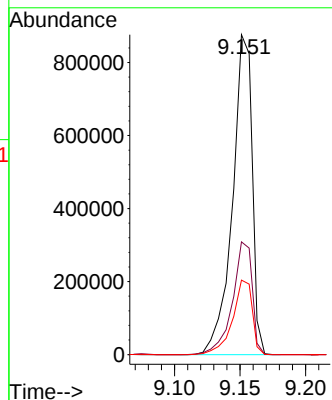
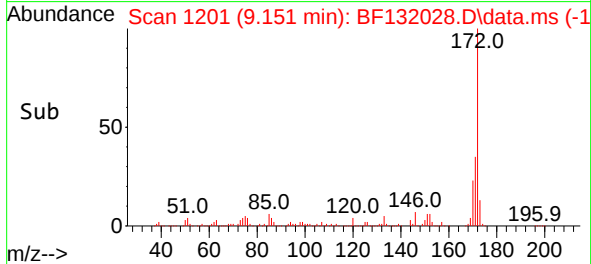
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:172 Resp: 91483  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.0 42.0  
170 23.3 18.9 28.3

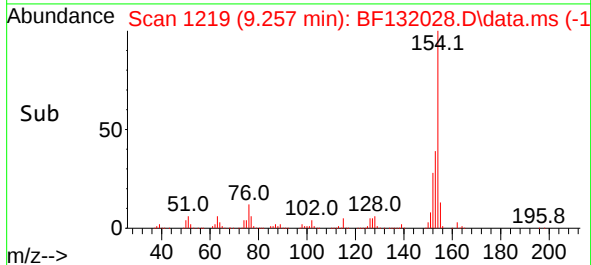
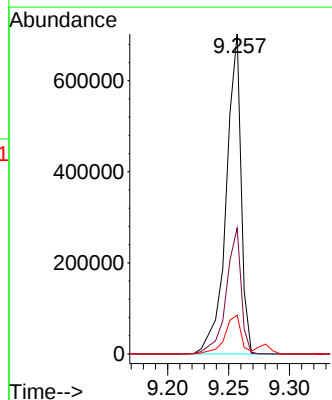
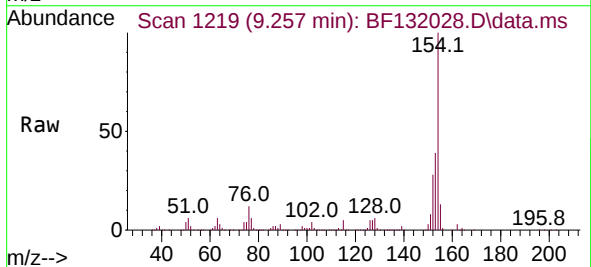
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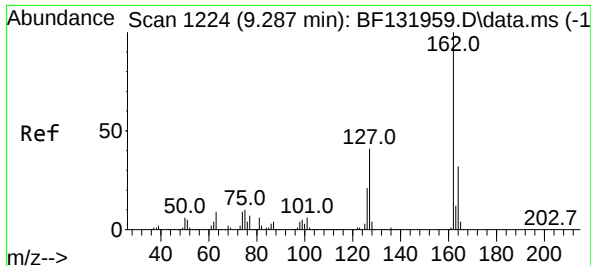
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#46  
1,1'-Biphenyl  
Concen: 44.467 ng  
RT: 9.257 min Scan# 1219  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion:154 Resp: 595780  
Ion Ratio Lower Upper  
154 100  
153 39.3 18.9 58.9  
76 12.1 0.0 33.2





#47

2-Chloronaphthalene

Concen: 44.805 ng

RT: 9.281 min Scan# 1224

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:162 Resp: 465919

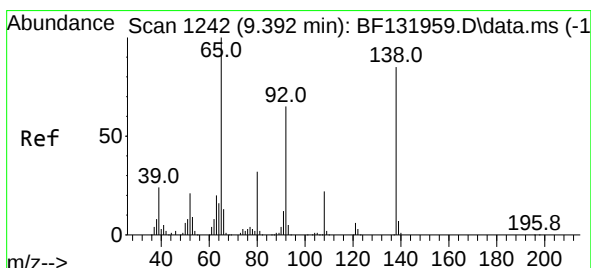
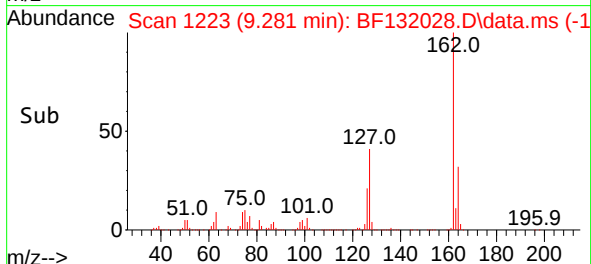
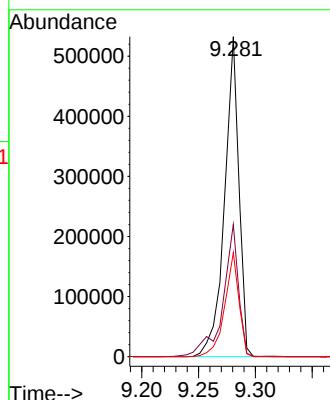
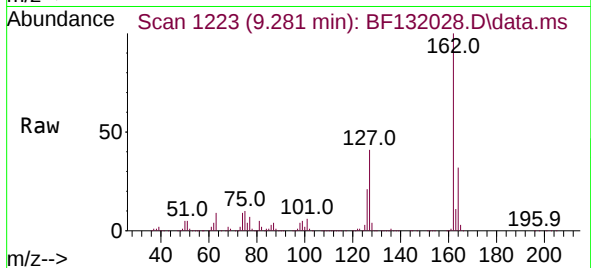
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 162 | 100   |       |       |
| 127 | 41.3  | 33.0  | 49.4  |
| 164 | 32.5  | 25.8  | 38.8  |

Manual Integrations

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Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#48

2-Nitroaniline

Concen: 41.029 ng

RT: 9.386 min Scan# 1241

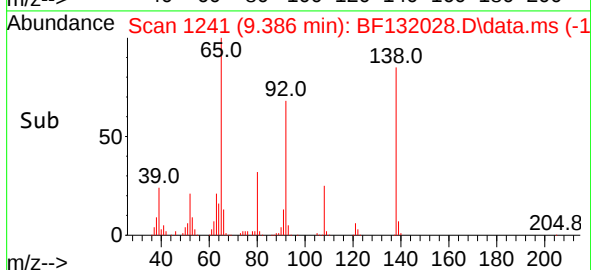
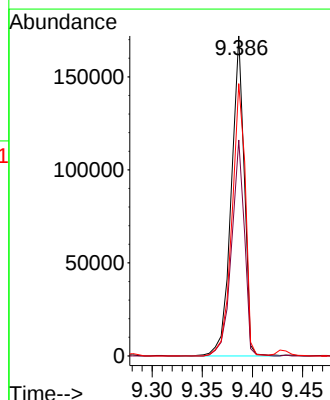
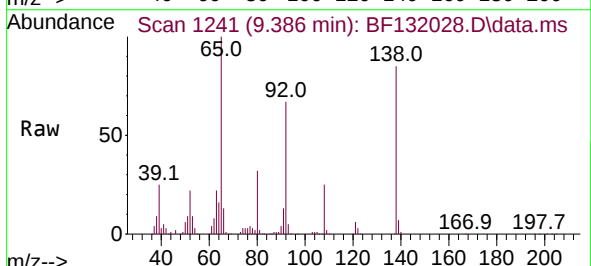
Delta R.T. -0.006 min

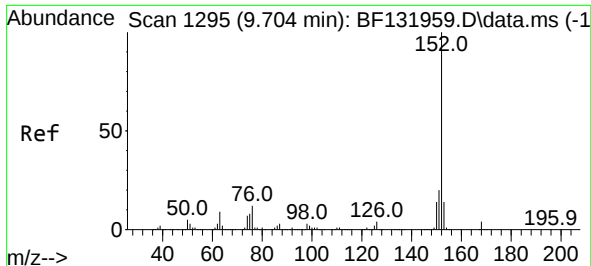
Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Tgt Ion: 65 Resp: 154966

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 92  | 67.5  | 52.2  | 78.2  |
| 138 | 85.1  | 67.8  | 101.8 |





#49

Acenaphthylene

Concen: 42.728 ng

RT: 9.698 min Scan# 1294

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:152 Resp: 689506

Ion Ratio Lower Upper

152 100

151 19.9 16.2 24.2

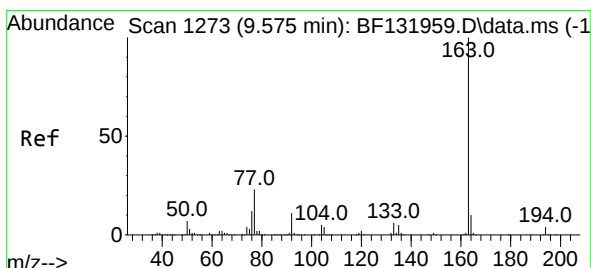
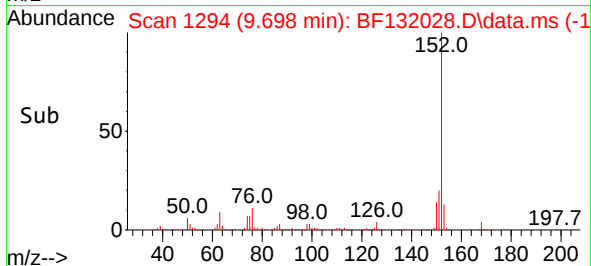
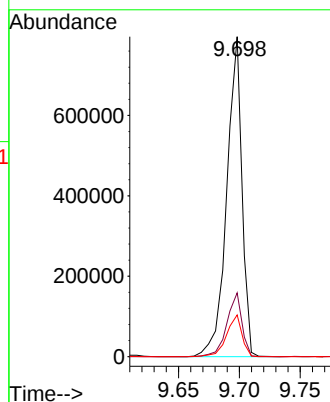
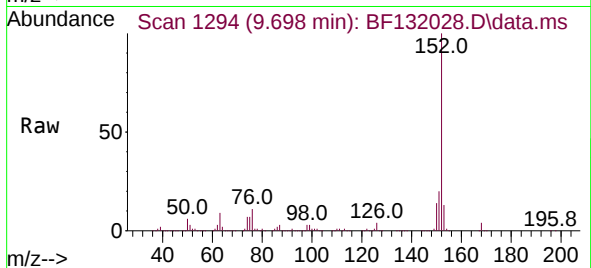
153 13.0 10.8 16.2

Manual Integrations

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Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#50

Dimethylphthalate

Concen: 41.871 ng

RT: 9.563 min Scan# 1271

Delta R.T. -0.012 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

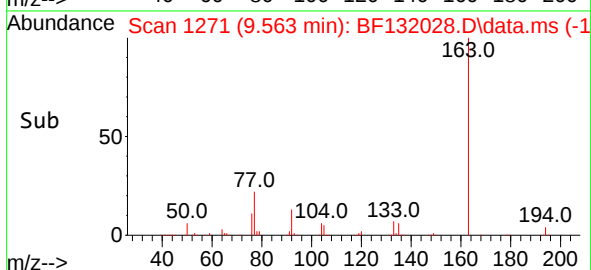
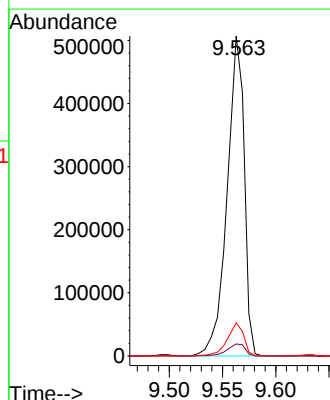
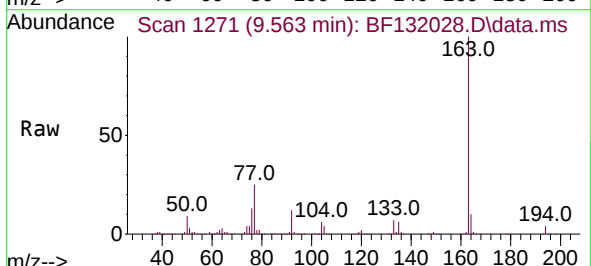
Tgt Ion:163 Resp: 566558

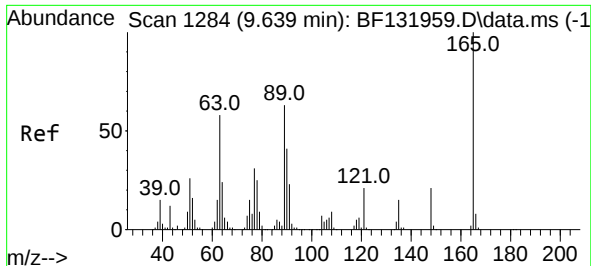
Ion Ratio Lower Upper

163 100

194 3.7 3.1 4.7

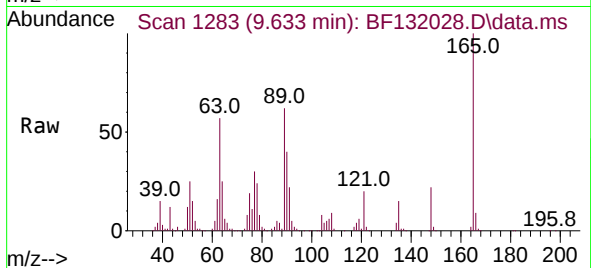
164 10.3 7.8 11.6





#51  
2,6-Dinitrotoluene  
Concen: 42.566 ng  
RT: 9.633 min Scan# 1283  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

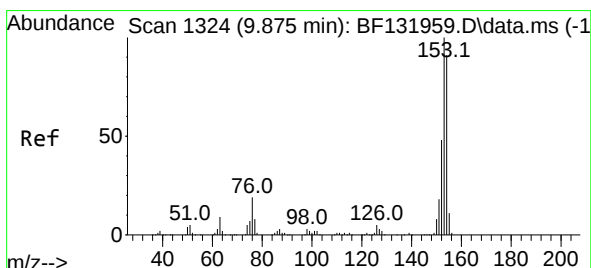
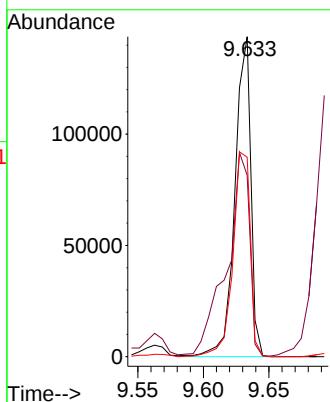
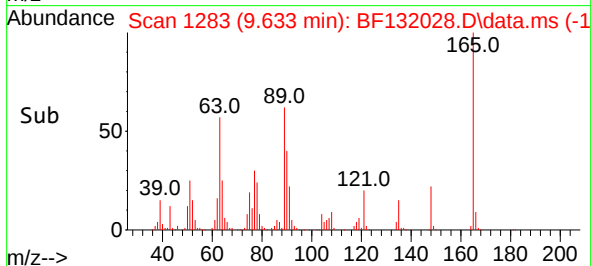
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



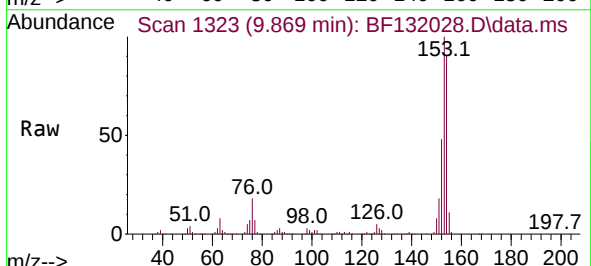
Tgt Ion:165 Resp: 121137  
Ion Ratio Lower Upper  
165 100  
63 56.7 47.4 71.0  
89 62.3 50.2 75.2

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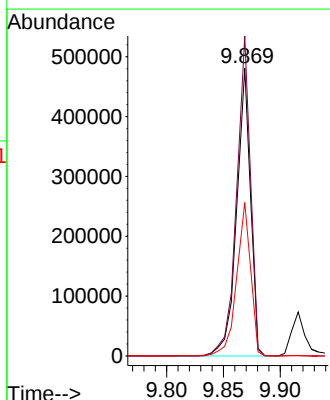
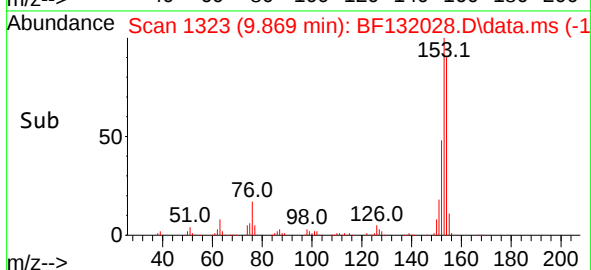
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

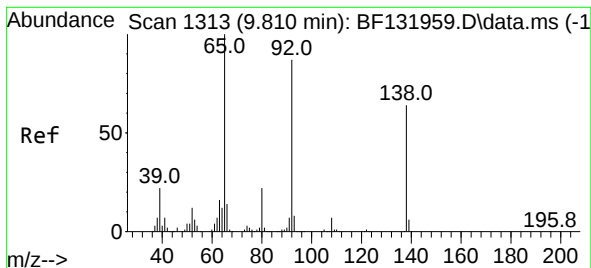


#52  
Acenaphthene  
Concen: 42.192 ng  
RT: 9.869 min Scan# 1323  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



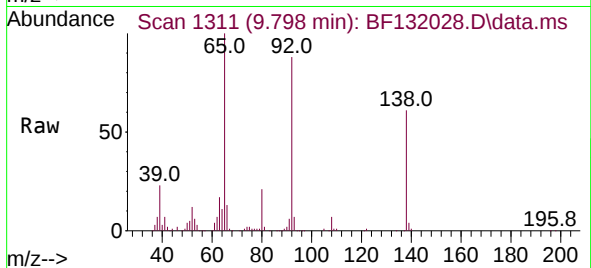
Tgt Ion:154 Resp: 408689  
Ion Ratio Lower Upper  
154 100  
153 111.1 87.7 131.5  
152 53.3 42.2 63.2





#53  
3-Nitroaniline  
Concen: 16.579 ng  
RT: 9.798 min Scan# 1311  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

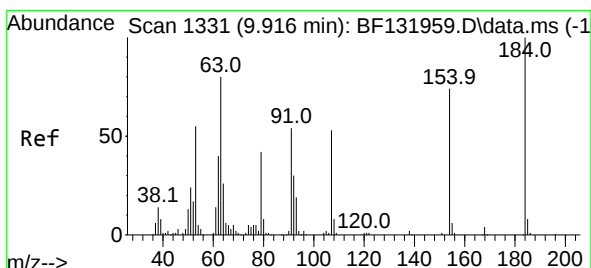
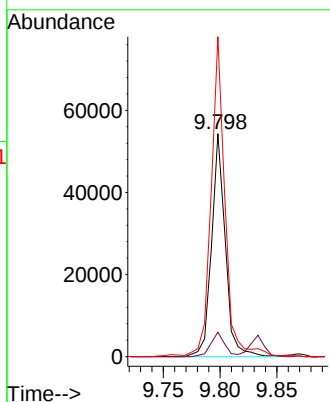
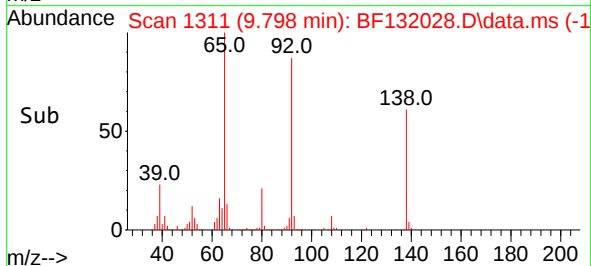
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:138 Resp: 45775  
Ion Ratio Lower Upper  
138 100  
108 10.9 8.8 13.2  
92 143.5 108.1 162.1

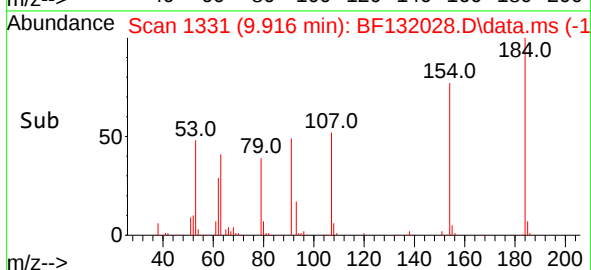
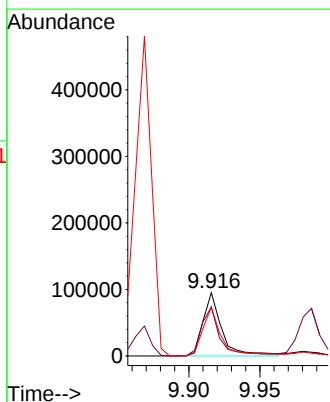
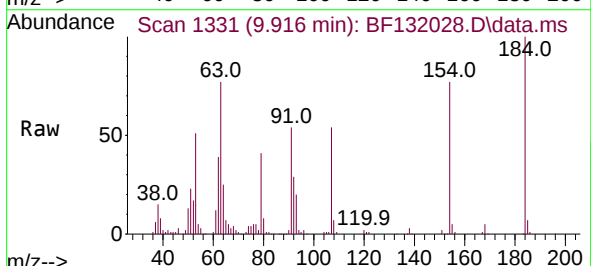
Manual Integrations  
APPROVED

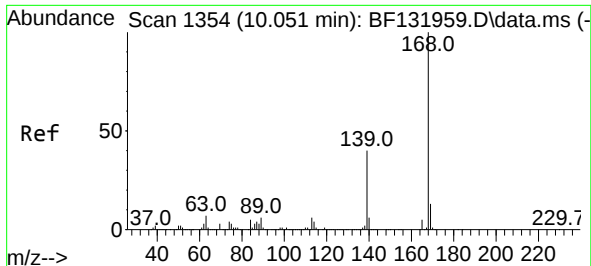
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#54  
2,4-Dinitrophenol  
Concen: 61.066 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

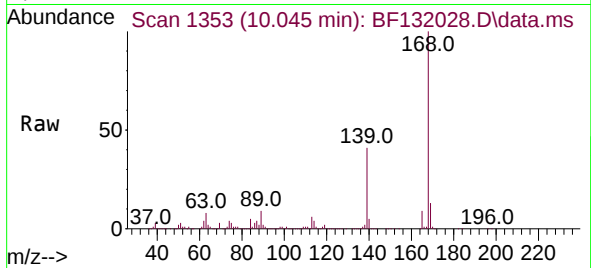
Tgt Ion:184 Resp: 87257  
Ion Ratio Lower Upper  
184 100  
63 77.4 63.7 95.5  
154 77.2 60.1 90.1





#55  
Dibenzenofuran  
Concen: 41.707 ng  
RT: 10.045 min Scan# 1353  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

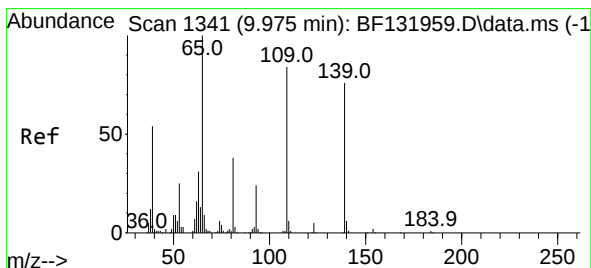
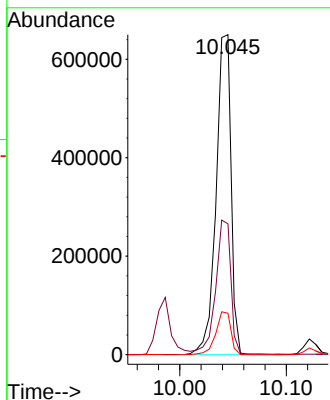
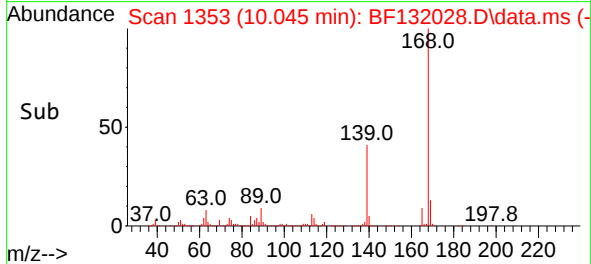
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:168 Resp: 636814  
Ion Ratio Lower Upper  
168 100  
139 40.9 32.4 48.6  
169 12.9 10.7 16.1

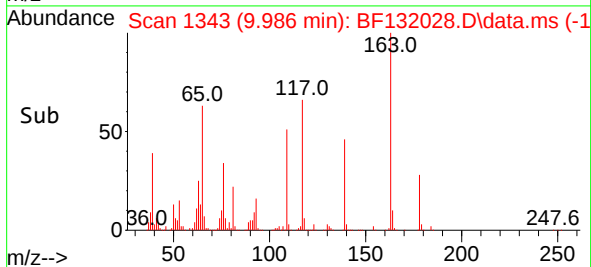
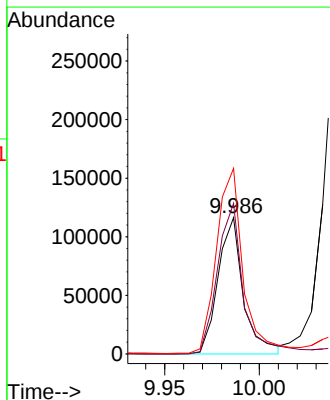
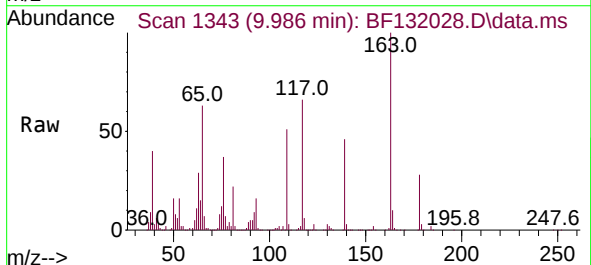
Manual Integrations  
APPROVED

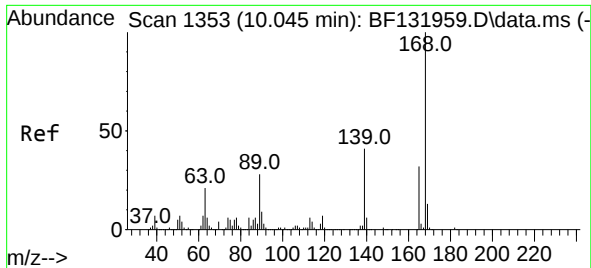
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#56  
4-Nitrophenol  
Concen: 69.533 ng  
RT: 9.986 min Scan# 1343  
Delta R.T. 0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

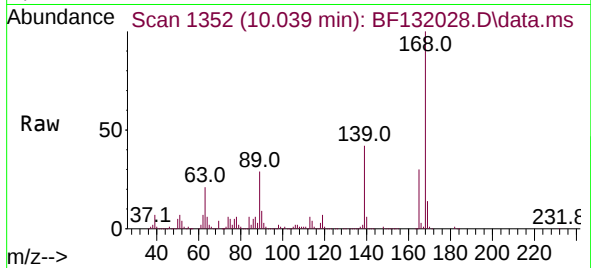
Tgt Ion:139 Resp: 108137  
Ion Ratio Lower Upper  
139 100  
109 110.4 90.5 130.5  
65 136.2 112.6 152.6





#57  
2,4-Dinitrotoluene  
Concen: 41.084 ng  
RT: 10.039 min Scan# 1410  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

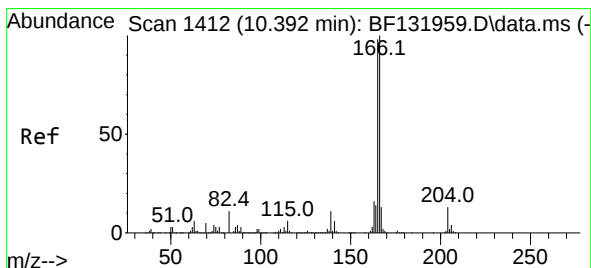
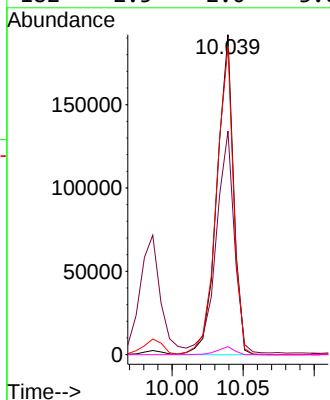
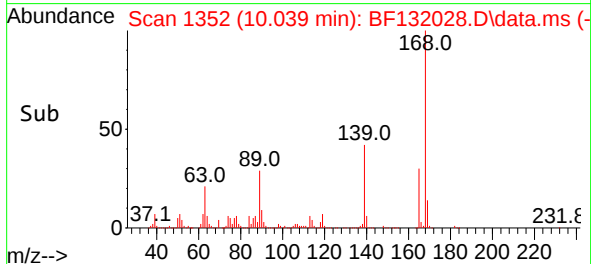
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:165 Resp: 156320  
Ion Ratio Lower Upper  
165 100  
63 69.8 53.2 79.8  
89 96.3 71.2 106.8  
182 2.5 2.0 3.0

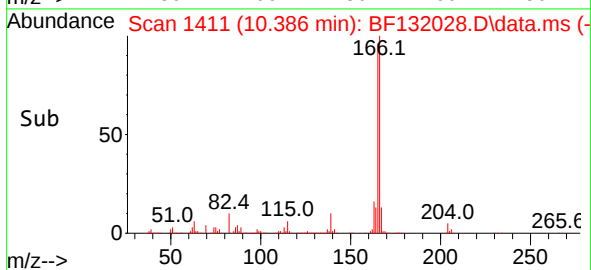
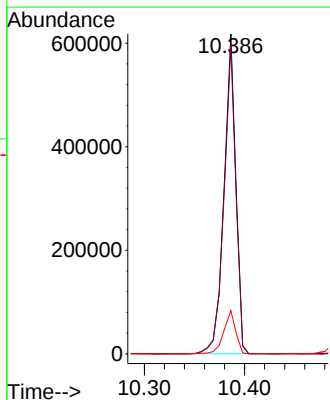
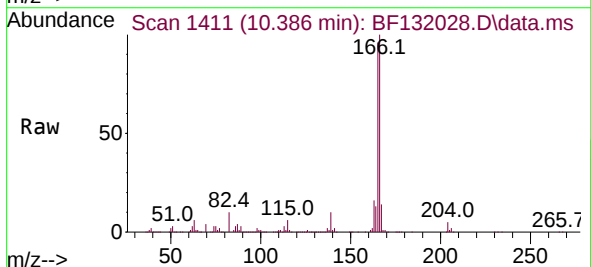
Manual Integrations  
APPROVED

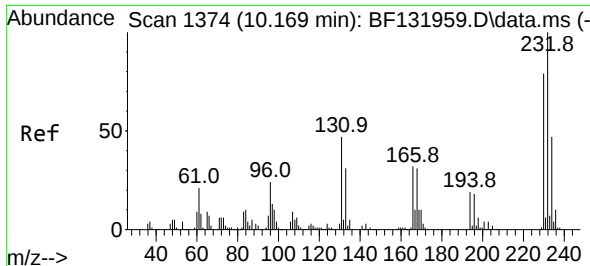
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#58  
Fluorene  
Concen: 41.725 ng  
RT: 10.386 min Scan# 1411  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

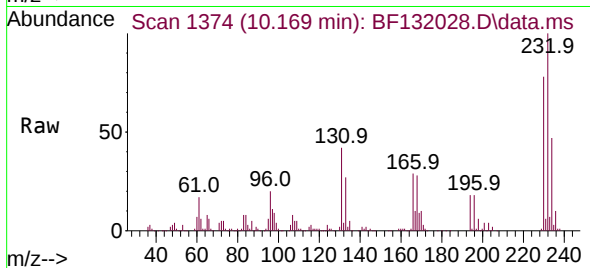
Tgt Ion:166 Resp: 508928  
Ion Ratio Lower Upper  
166 100  
165 96.5 78.3 117.5  
167 13.5 10.7 16.1





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 42.002 ng  
RT: 10.169 min Scan# 1374  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

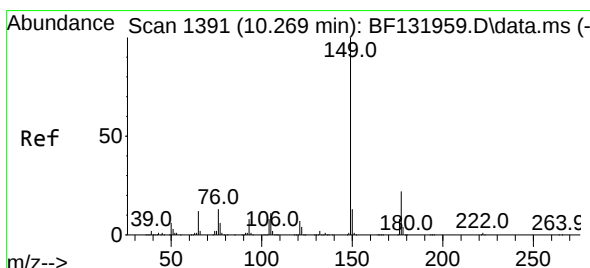
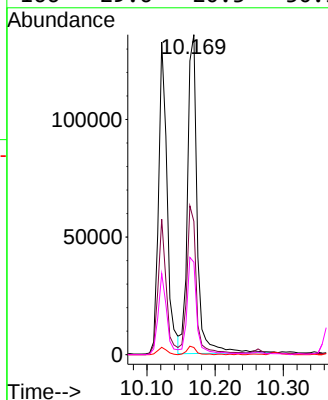
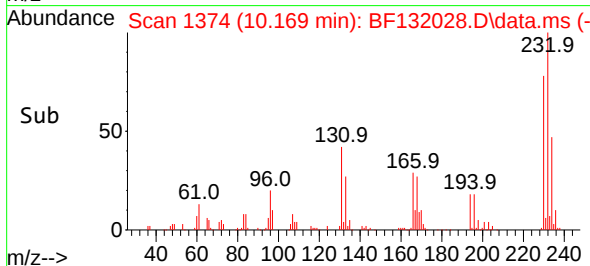
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:232 Resp: 134150  
Ion Ratio Lower Upper  
232 100  
131 44.2 33.0 49.4  
130 2.5 1.8 2.8  
166 29.6 20.3 30.5

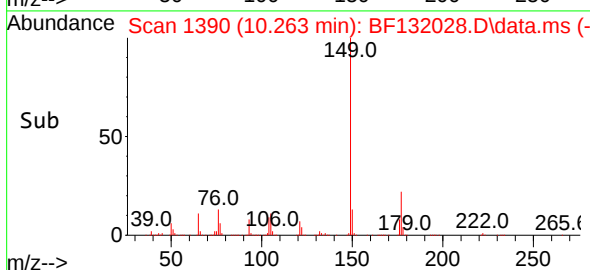
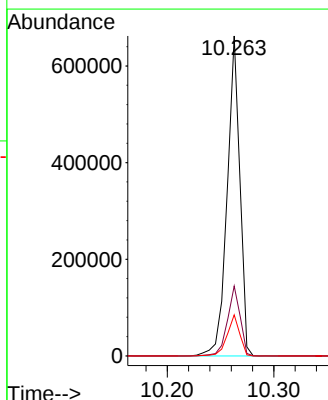
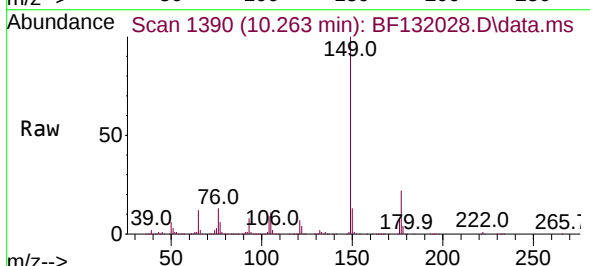
Manual Integrations  
APPROVED

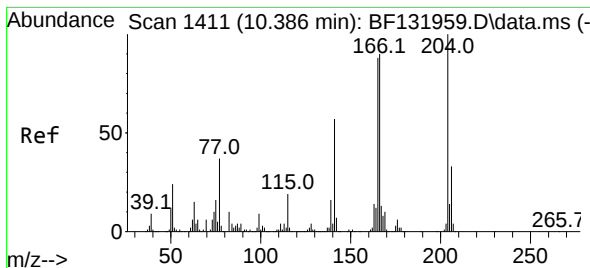
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#60  
Diethylphthalate  
Concen: 41.167 ng  
RT: 10.263 min Scan# 1390  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

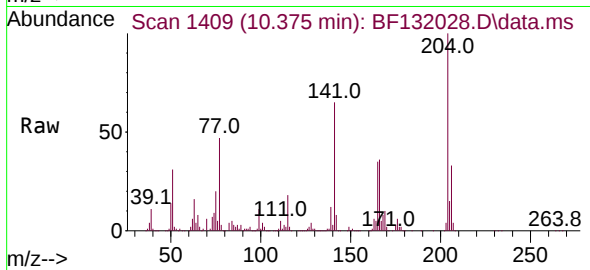
Tgt Ion:149 Resp: 547738  
Ion Ratio Lower Upper  
149 100  
177 21.8 17.7 26.5  
150 12.8 10.2 15.2





#61  
4-Chlorophenyl-phenylether  
Concen: 40.581 ng  
RT: 10.375 min Scan# 1410  
Delta R.T. -0.012 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

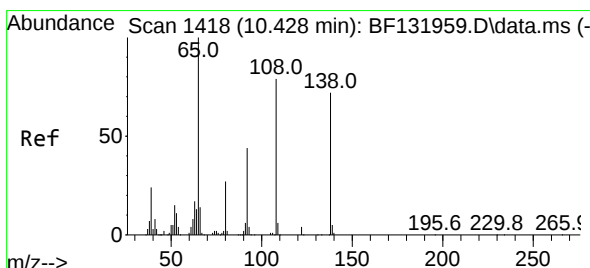
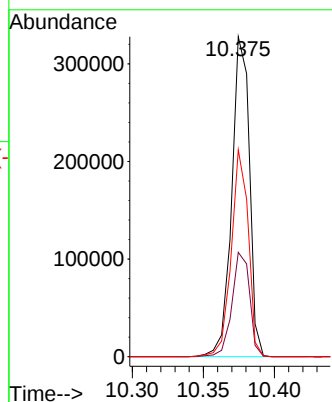
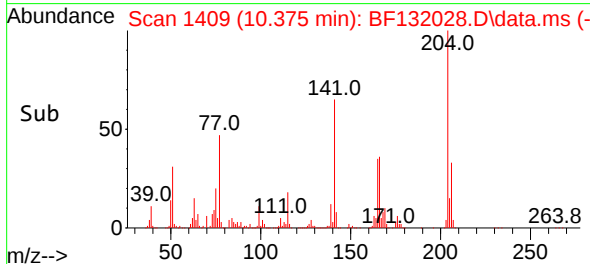
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



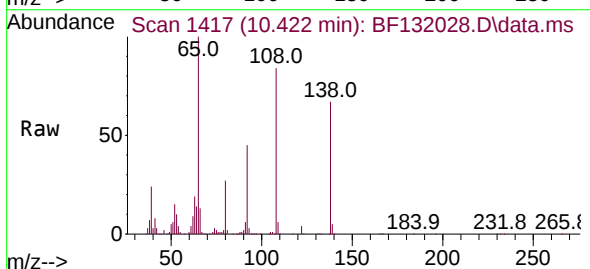
Tgt Ion:204 Resp: 283350  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.3 39.5  
141 64.6 45.6 68.4

Manual Integrations  
APPROVED

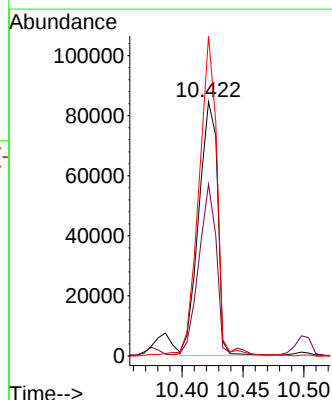
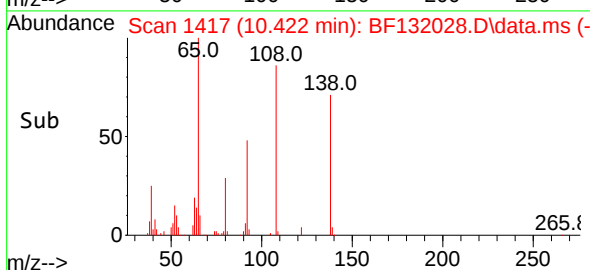
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

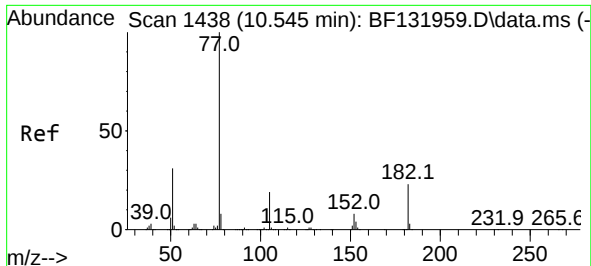


#62  
4-Nitroaniline  
Concen: 36.553 ng  
RT: 10.422 min Scan# 1417  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



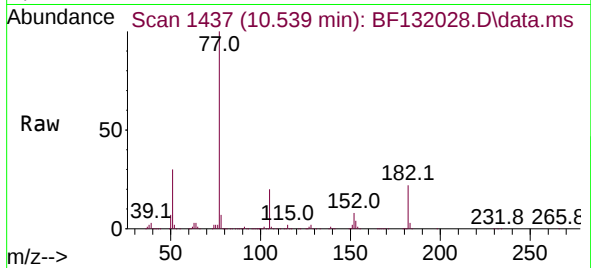
Tgt Ion:138 Resp: 90750  
Ion Ratio Lower Upper  
138 100  
92 67.6 41.3 81.3  
108 125.9 89.8 129.8





#63  
Azobenzene  
Concen: 45.752 ng  
RT: 10.539 min Scan# 1437  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

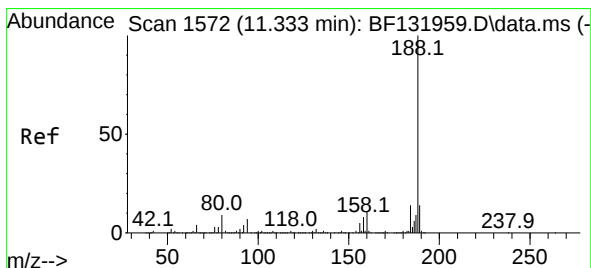
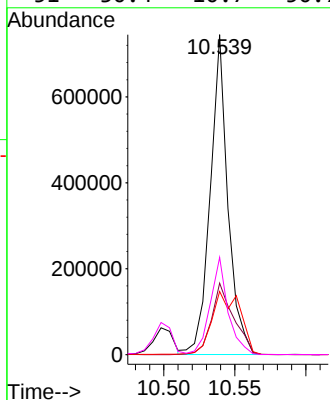
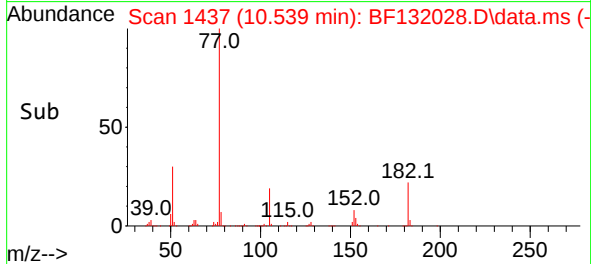
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



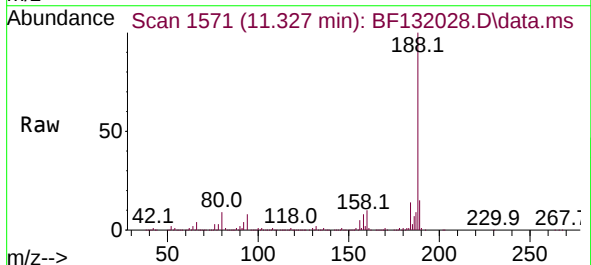
Tgt Ion: 77 Resp: 645745  
Ion Ratio Lower Upper  
77 100  
182 22.3 2.9 42.9  
105 19.7 0.0 39.3  
51 30.4 10.7 50.7

Manual Integrations  
APPROVED

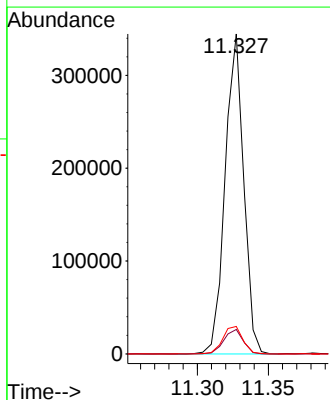
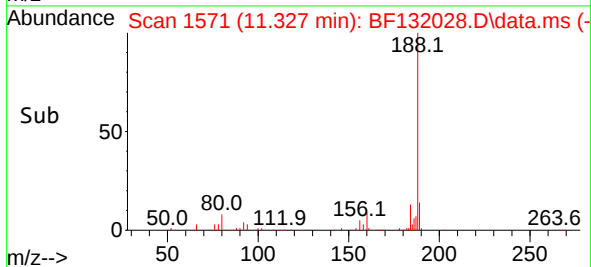
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

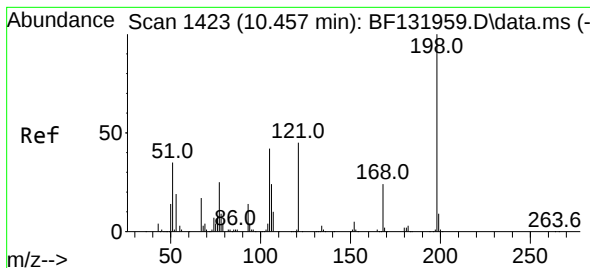


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.327 min Scan# 1571  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



Tgt Ion:188 Resp: 313335  
Ion Ratio Lower Upper  
188 100  
94 7.6 5.8 8.6  
80 8.6 7.4 11.0





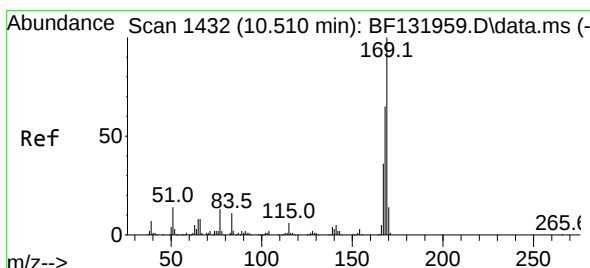
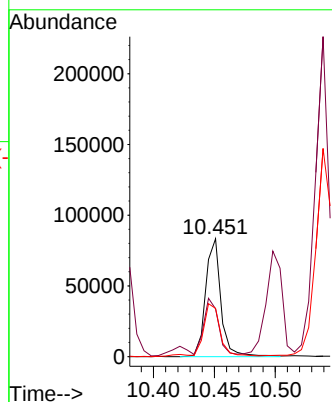
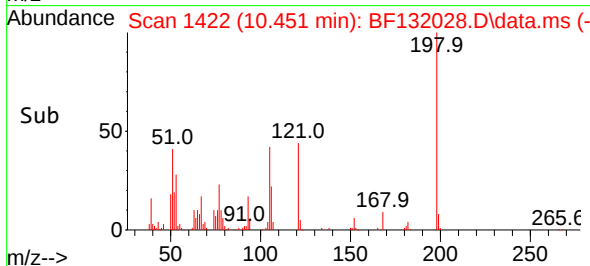
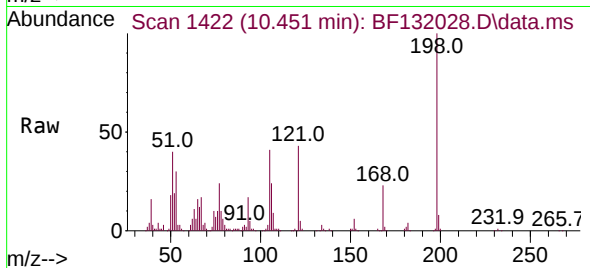
#65  
4,6-Dinitro-2-methylphenol  
Concen: 36.071 ng  
RT: 10.451 min Scan# 1422  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD

Tgt Ion:198 Resp: 72886  
Ion Ratio Lower Upper  
198 100  
51 40.5 21.4 61.4  
105 40.9 23.0 63.0

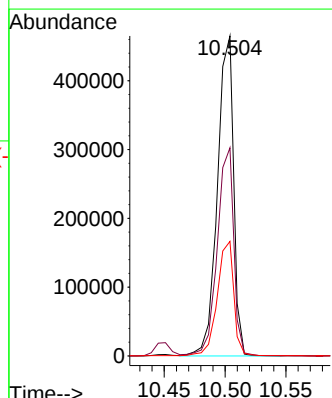
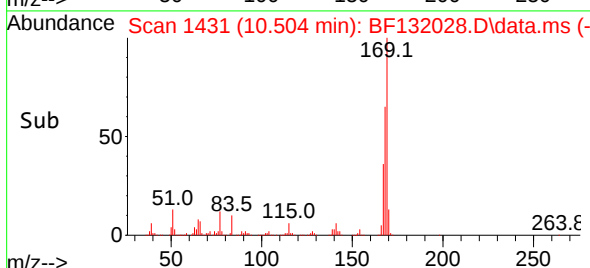
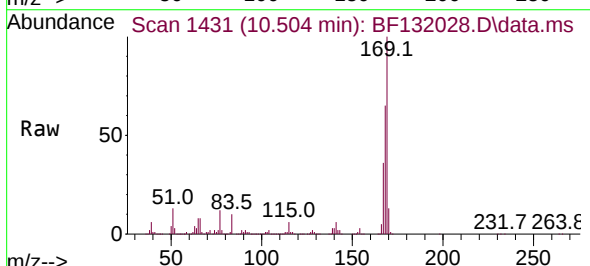
Manual Integrations  
APPROVED

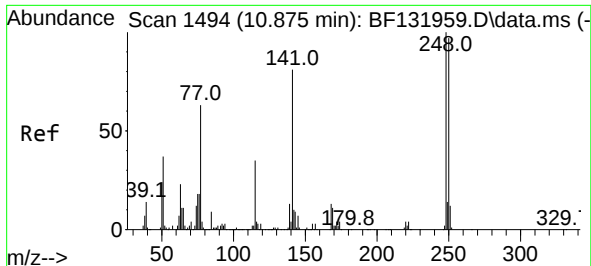
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#66  
n-Nitrosodiphenylamine  
Concen: 43.815 ng  
RT: 10.504 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

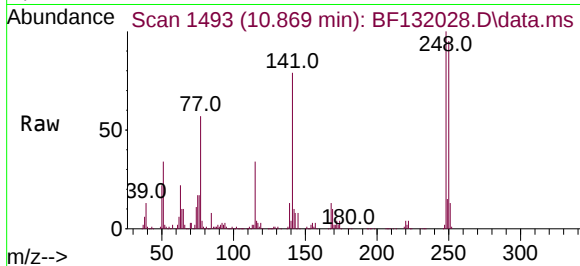
Tgt Ion:169 Resp: 430713  
Ion Ratio Lower Upper  
169 100  
168 65.0 52.5 78.7  
167 35.8 28.6 43.0





#67  
4-Bromophenyl-phenylether  
Concen: 43.477 ng  
RT: 10.869 min Scan# 1493  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

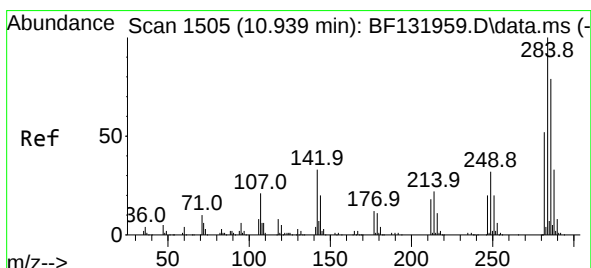
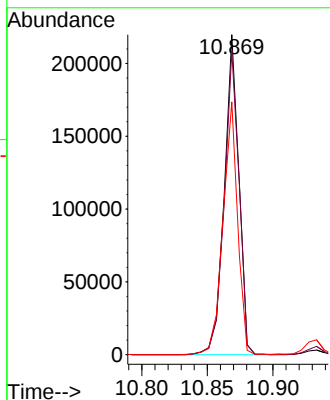
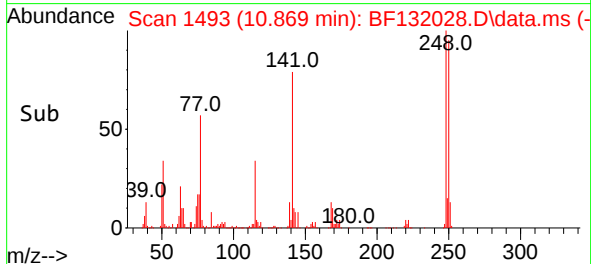
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



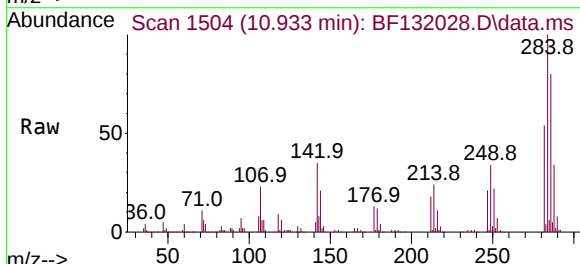
Tgt Ion:248 Resp: 170419  
Ion Ratio Lower Upper  
248 100  
250 94.8 77.4 116.2  
141 79.0 65.0 97.6

Manual Integrations  
APPROVED

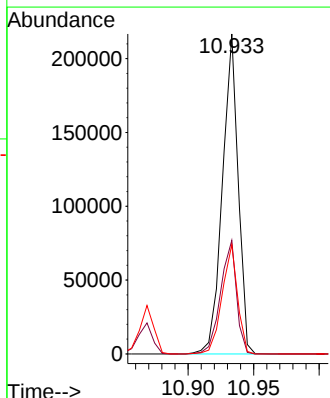
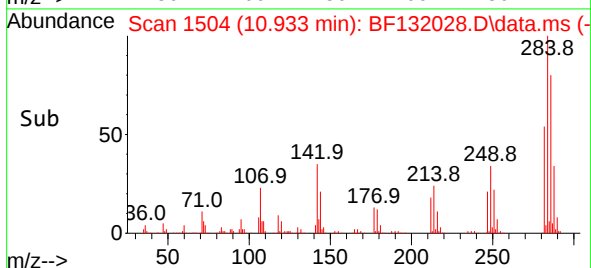
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

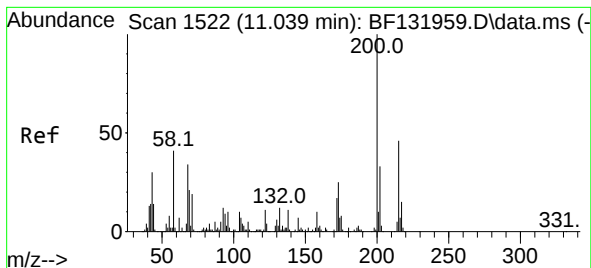


#68  
Hexachlorobenzene  
Concen: 45.785 ng  
RT: 10.933 min Scan# 1504  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



Tgt Ion:284 Resp: 181546  
Ion Ratio Lower Upper  
284 100  
142 35.5 26.4 39.6  
249 34.1 25.4 38.2





#69

Atrazine

Concen: 45.171 ng

RT: 11.033 min Scan# 1522

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:200 Resp: 161478

Ion Ratio Lower Upper

200 100

173 24.3 5.1 45.1

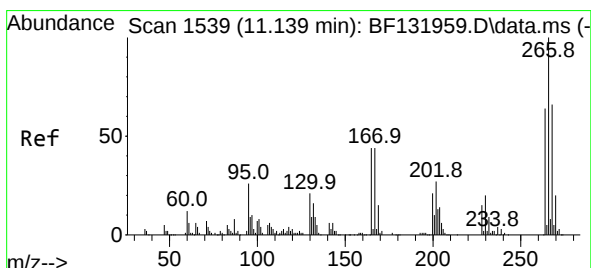
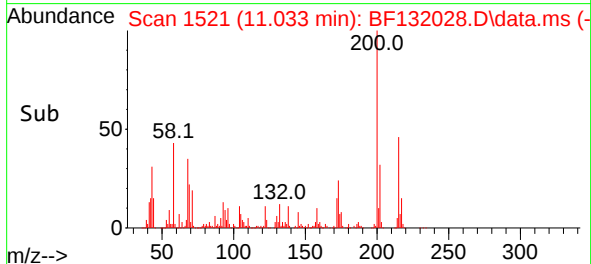
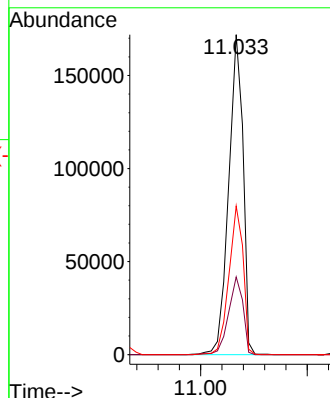
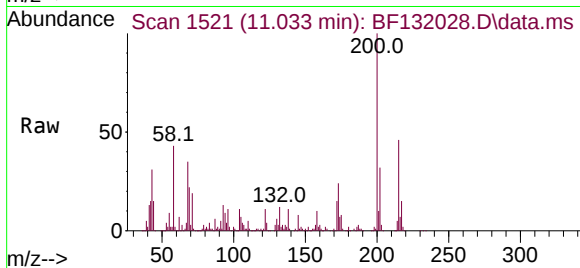
215 46.4 25.6 65.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#70

Pentachlorophenol

Concen: 55.792 ng

RT: 11.139 min Scan# 1539

Delta R.T. 0.000 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

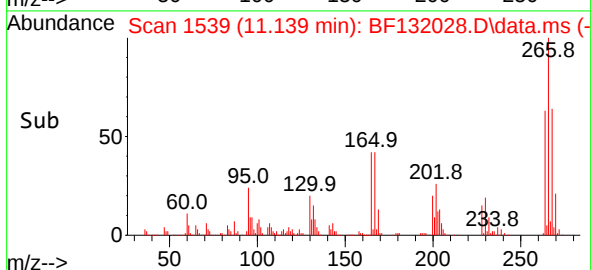
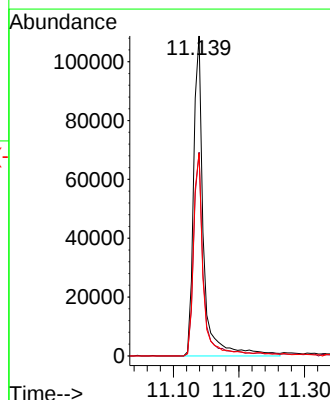
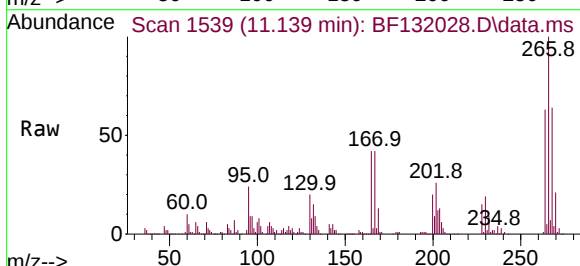
Tgt Ion:266 Resp: 115025

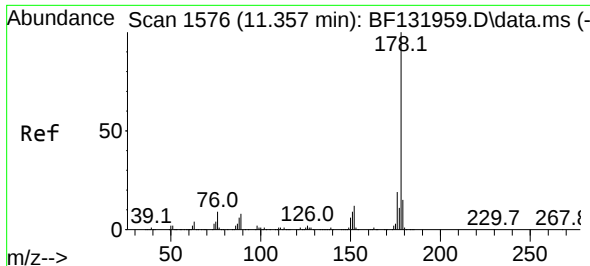
Ion Ratio Lower Upper

266 100

268 63.6 52.7 79.1

264 63.3 51.6 77.4





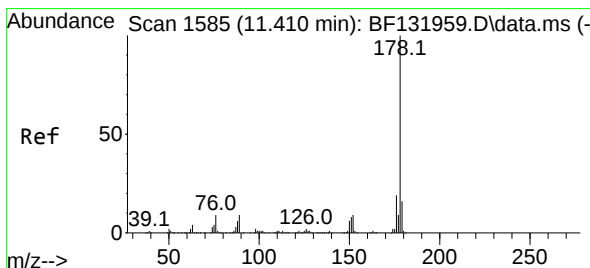
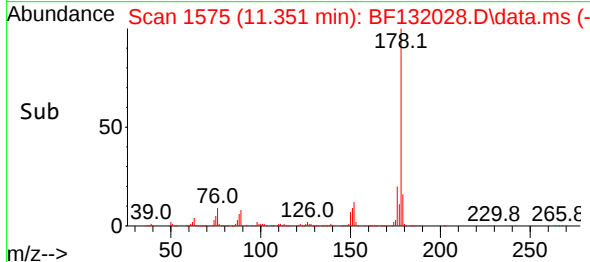
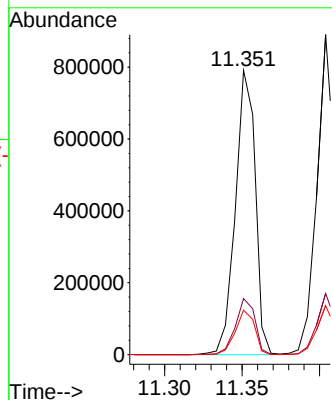
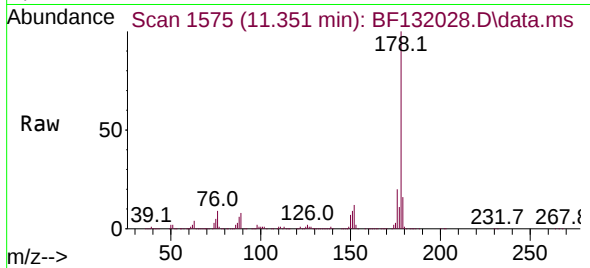
#71  
Phenanthrene  
Concen: 43.421 ng  
RT: 11.351 min Scan# 1575  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD

Tgt Ion:178 Resp: 70925  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.5 23.3  
179 15.6 12.4 18.6

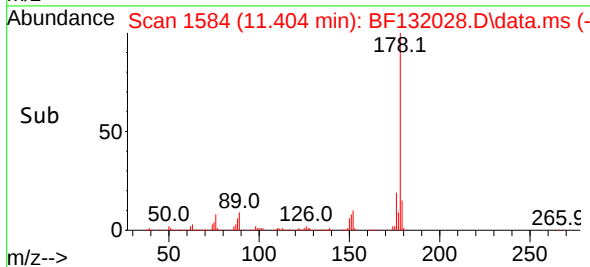
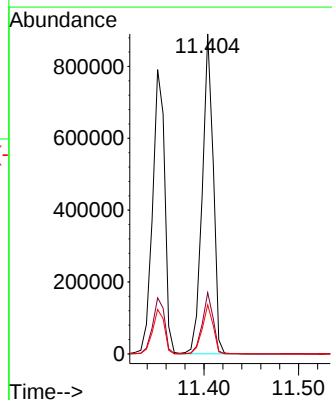
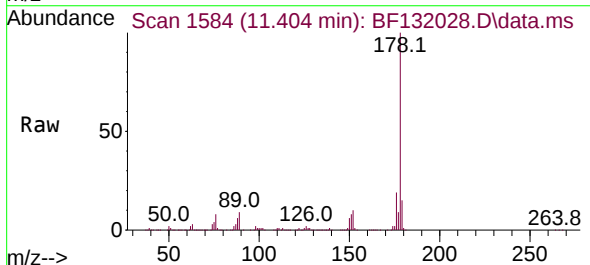
Manual Integrations  
APPROVED

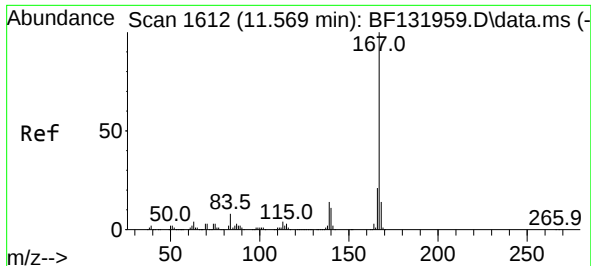
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#72  
Anthracene  
Concen: 42.472 ng  
RT: 11.404 min Scan# 1584  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

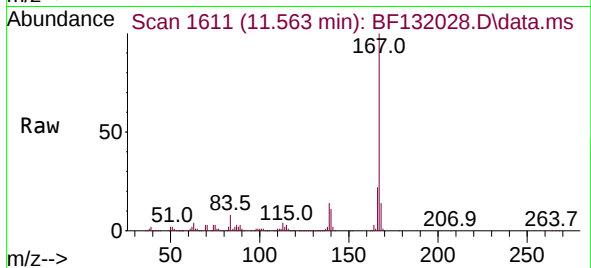
Tgt Ion:178 Resp: 714185  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 15.3 12.6 19.0





#73  
Carbazole  
Concen: 40.965 ng  
RT: 11.563 min Scan# 1611  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

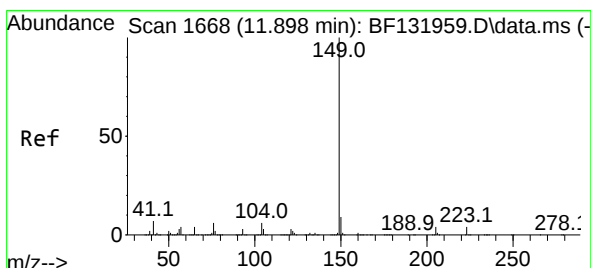
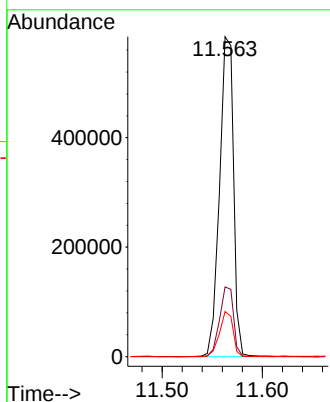
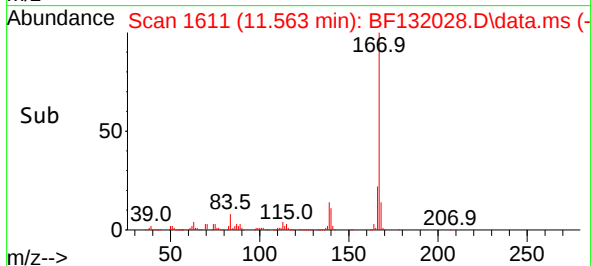
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



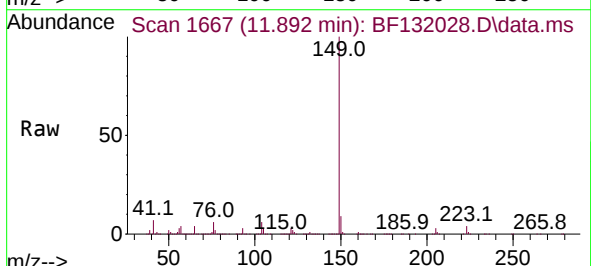
Tgt Ion:167 Resp: 570295  
Ion Ratio Lower Upper  
167 100  
166 21.8 16.8 25.2  
139 14.1 11.1 16.7

Manual Integrations  
APPROVED

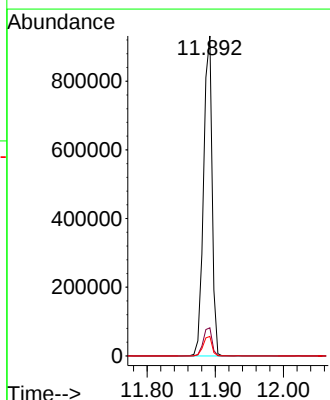
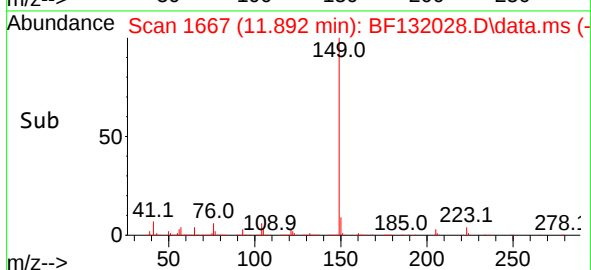
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

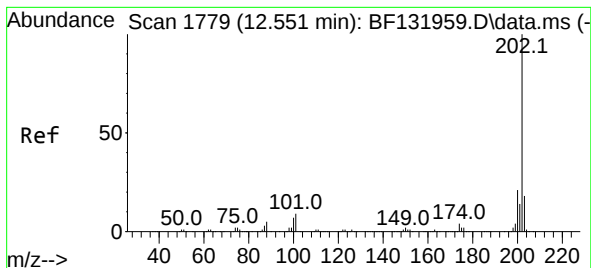


#74  
Di-n-butylphthalate  
Concen: 41.726 ng  
RT: 11.892 min Scan# 1667  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



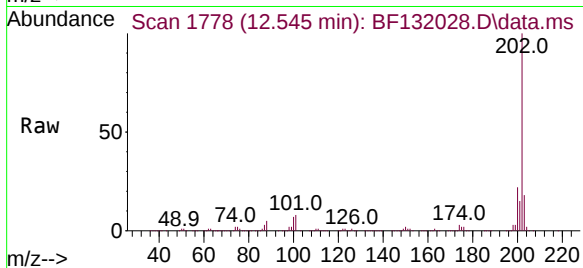
Tgt Ion:149 Resp: 808825  
Ion Ratio Lower Upper  
149 100  
150 8.8 7.3 10.9  
104 6.1 5.0 7.6





#75  
Fluoranthene  
Concen: 37.602 ng  
RT: 12.545 min Scan# 1779  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

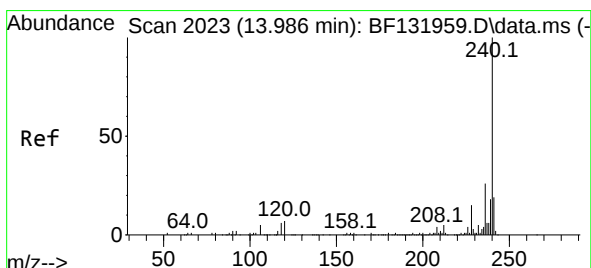
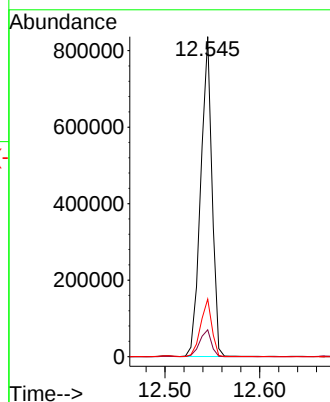
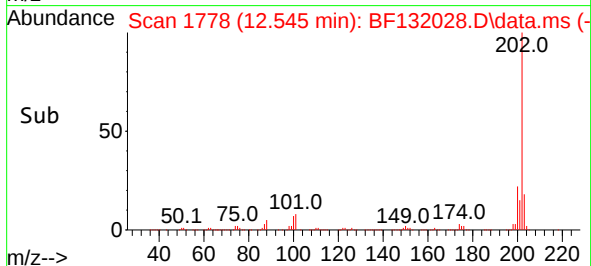
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



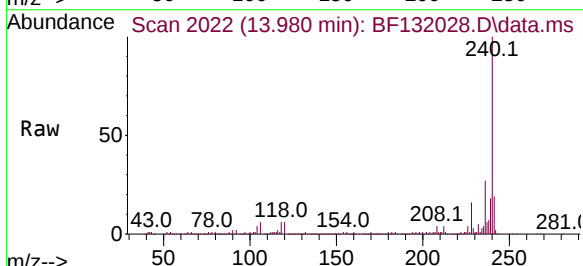
Tgt Ion:202 Resp: 690752  
Ion Ratio Lower Upper  
202 100  
101 8.4 0.0 28.8  
203 18.0 0.0 37.6

Manual Integrations  
APPROVED

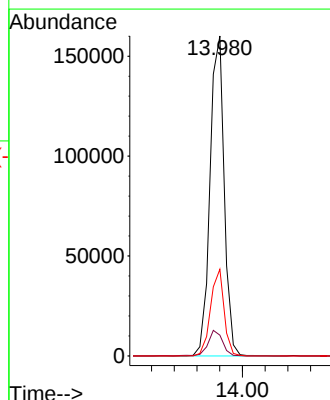
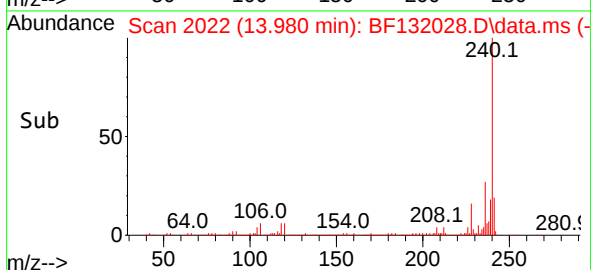
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

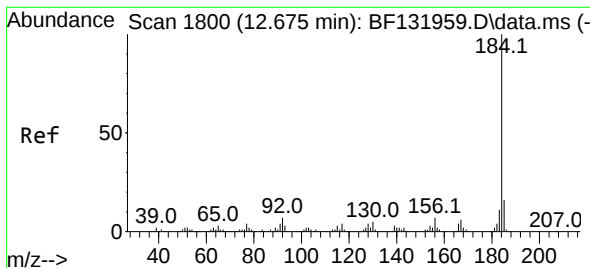


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.980 min Scan# 2022  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



Tgt Ion:240 Resp: 139174  
Ion Ratio Lower Upper  
240 100  
120 6.5 5.4 8.0  
236 27.1 21.1 31.7





#77

Benzidine

Concen: 34.133 ng

RT: 12.669 min Scan# 1799

Delta R.T. -0.006 min

Lab File: BF132028.D

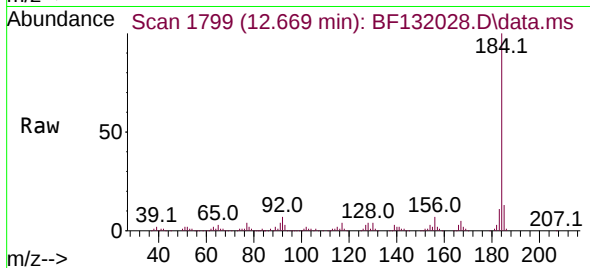
Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD



Tgt Ion:184 Resp: 157820

Ion Ratio Lower Upper

184 100

185 13.3 12.8 19.2

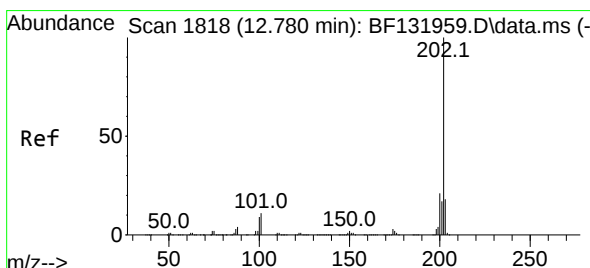
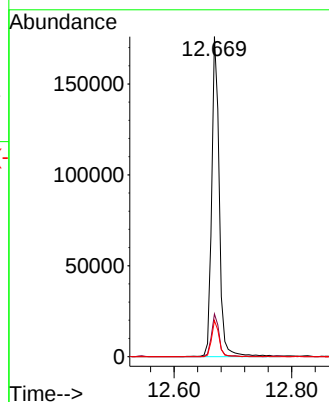
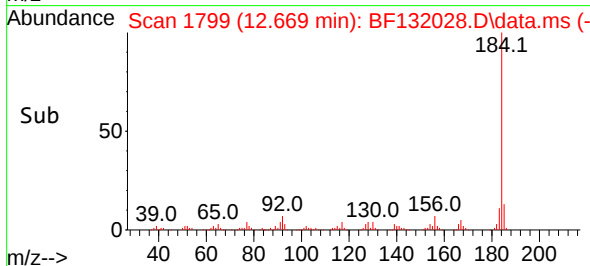
183 11.2 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#78

Pyrene

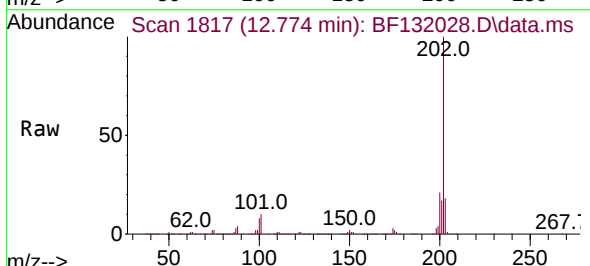
Concen: 52.682 ng

RT: 12.774 min Scan# 1817

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56



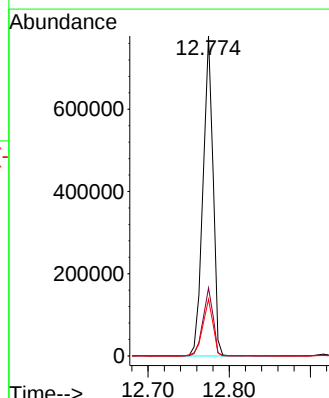
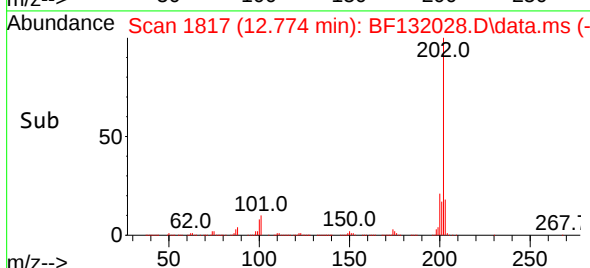
Tgt Ion:202 Resp: 668716

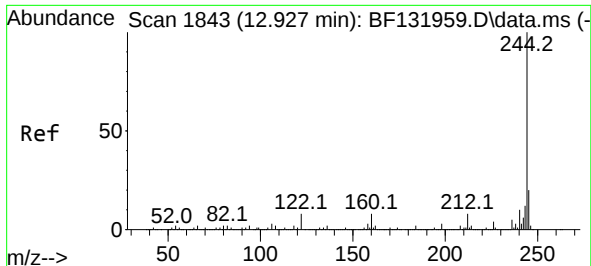
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.6

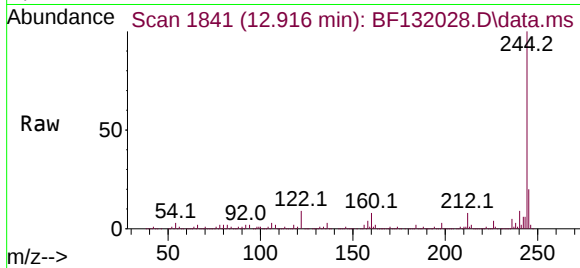
203 17.7 14.1 21.1





#79  
 Terphenyl-d14  
 Concen: 93.016 ng  
 RT: 12.916 min Scan# 1841  
 Delta R.T. -0.012 min  
 Lab File: BF132028.D  
 Acq: 11 Jan 2023 17:56

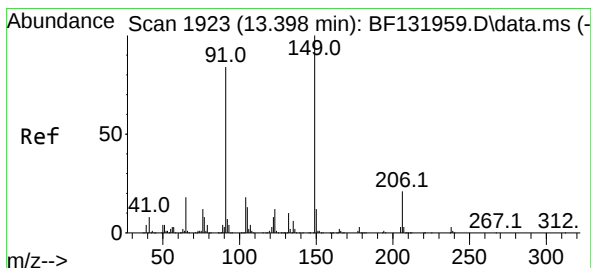
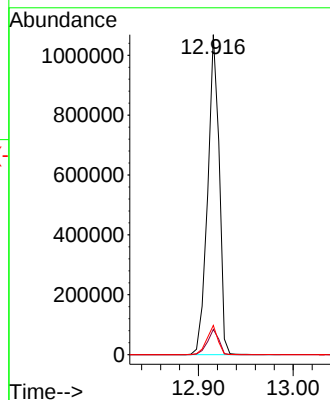
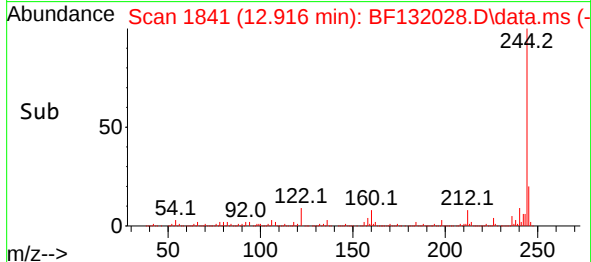
Instrument :  
 BNA\_F  
 ClientSampleId :  
 H-5-MIDDLE(4-8)MSD



Tgt Ion:244 Resp: 903211  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 6.3 9.5  
 122 9.1 6.8 10.2

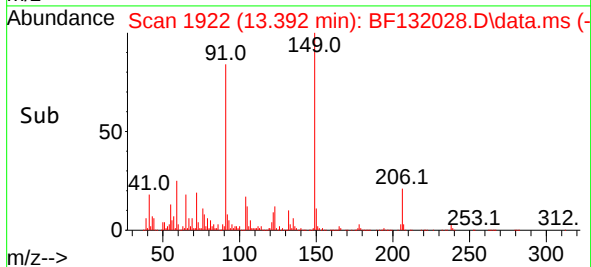
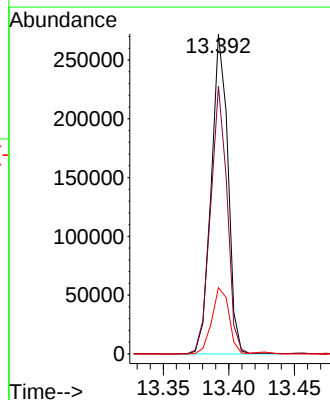
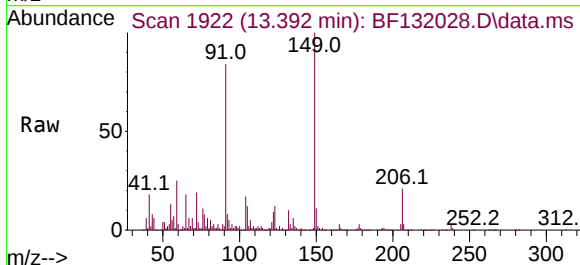
Manual Integrations  
 APPROVED

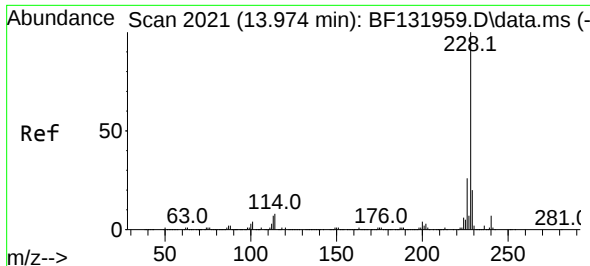
Reviewed By :Christian Giraldo 01/12/2023  
 Supervised By :Jagrut Upadhyay 01/12/2023



#80  
 Butylbenzylphthalate  
 Concen: 46.930 ng  
 RT: 13.392 min Scan# 1922  
 Delta R.T. -0.006 min  
 Lab File: BF132028.D  
 Acq: 11 Jan 2023 17:56

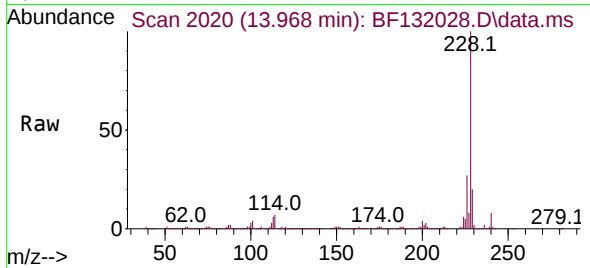
Tgt Ion:149 Resp: 240452  
 Ion Ratio Lower Upper  
 149 100  
 91 83.7 67.0 100.4  
 206 20.7 16.9 25.3





#81  
Benzo(a)anthracene  
Concen: 43.047 ng  
RT: 13.968 min Scan# 2014  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

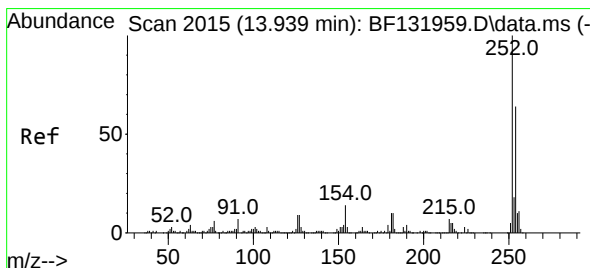
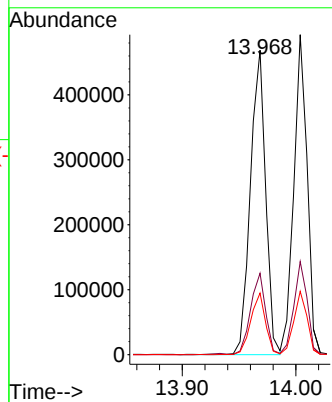
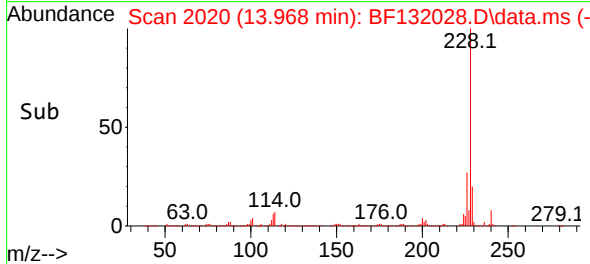
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



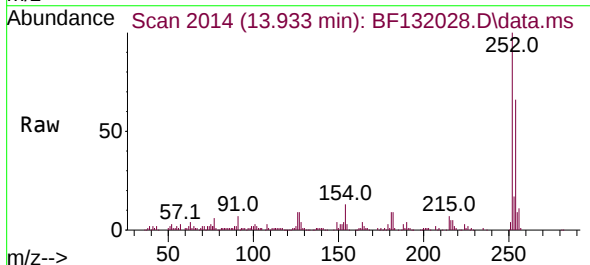
Tgt Ion:228 Resp: 435861  
Ion Ratio Lower Upper  
228 100  
226 26.8 21.0 31.4  
229 20.2 15.8 23.6

Manual Integrations  
APPROVED

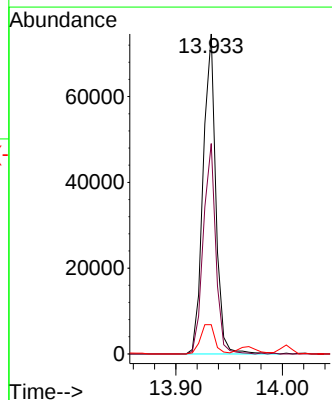
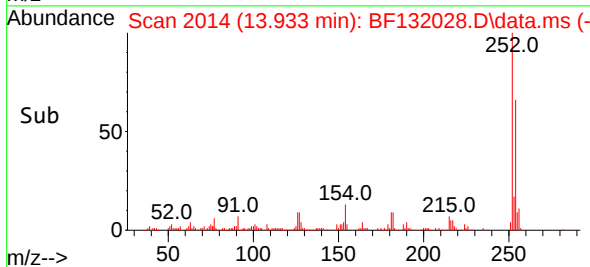
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

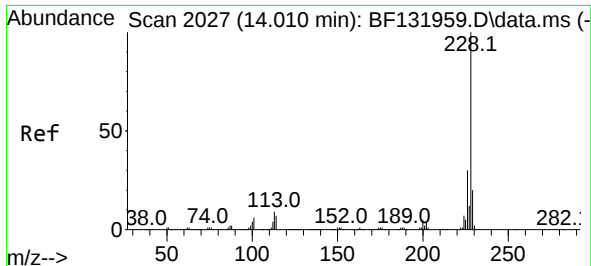


#82  
3,3'-Dichlorobenzidine  
Concen: 19.465 ng  
RT: 13.933 min Scan# 2014  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



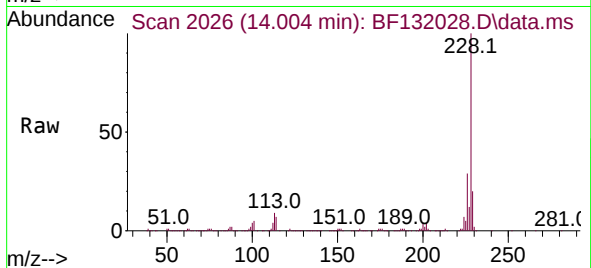
Tgt Ion:252 Resp: 61512  
Ion Ratio Lower Upper  
252 100  
254 65.7 51.5 77.3  
126 9.1 6.9 10.3





#83  
Chrysene  
Concen: 42.628 ng  
RT: 14.004 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

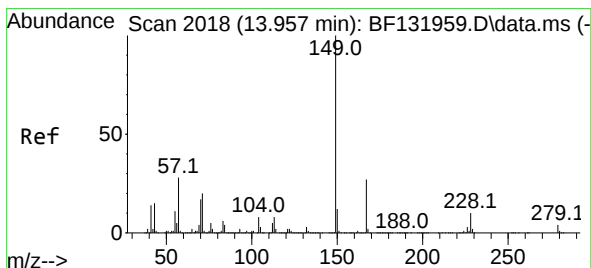
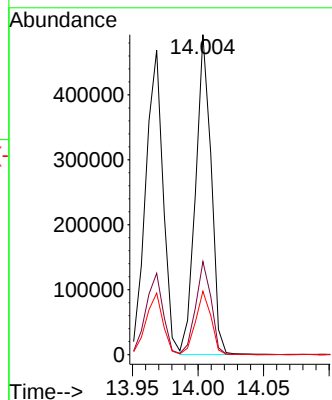
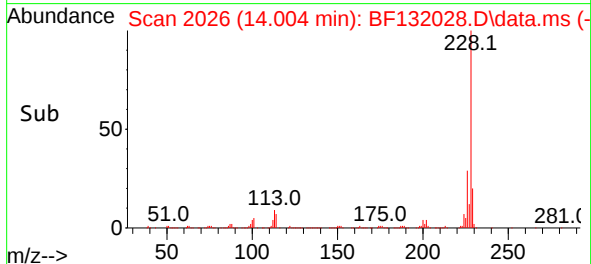
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:228 Resp: 403383  
Ion Ratio Lower Upper  
228 100  
226 29.1 24.0 36.0  
229 19.8 16.2 24.4

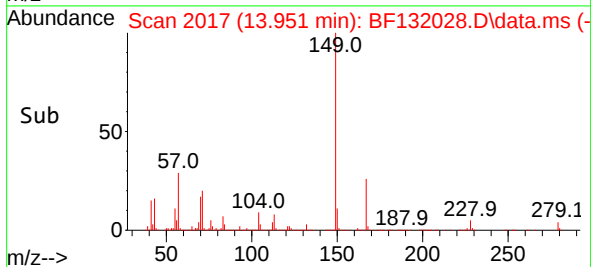
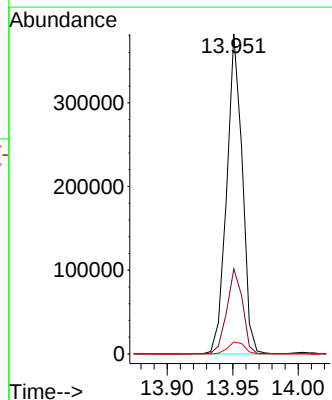
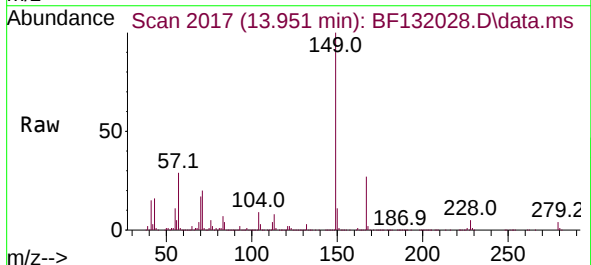
Manual Integrations  
APPROVED

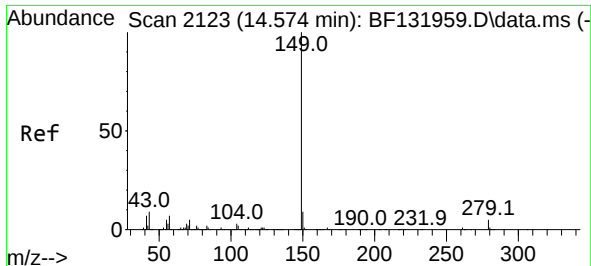
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 45.497 ng  
RT: 13.951 min Scan# 2017  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

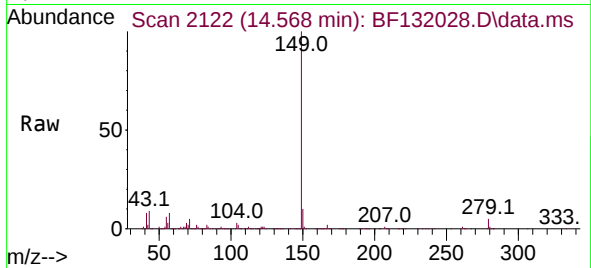
Tgt Ion:149 Resp: 315815  
Ion Ratio Lower Upper  
149 100  
167 26.5 21.3 31.9  
279 3.7 3.2 4.8





#85  
Di-n-octyl phthalate  
Concen: 50.324 ng  
RT: 14.568 min Scan# 2123  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

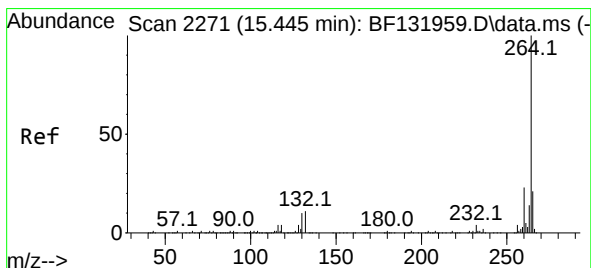
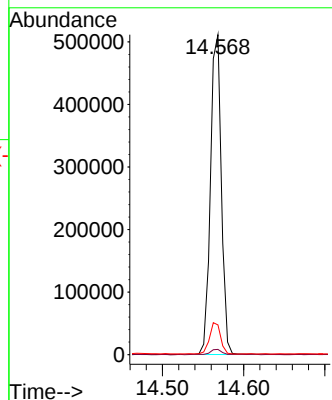
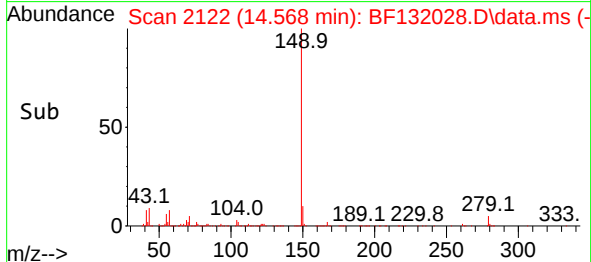
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



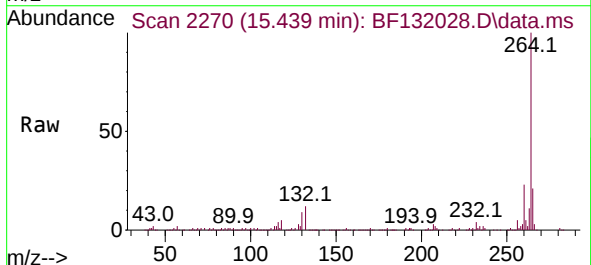
Tgt Ion:149 Resp: 478011  
Ion Ratio Lower Upper  
149 100  
167 1.9 1.3 1.9  
43 10.1 7.8 11.6

Manual Integrations  
APPROVED

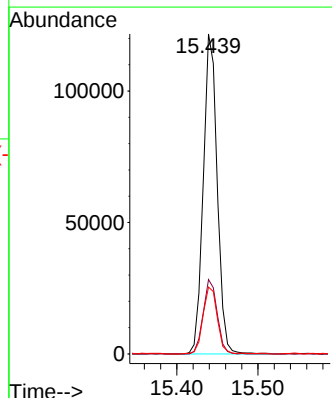
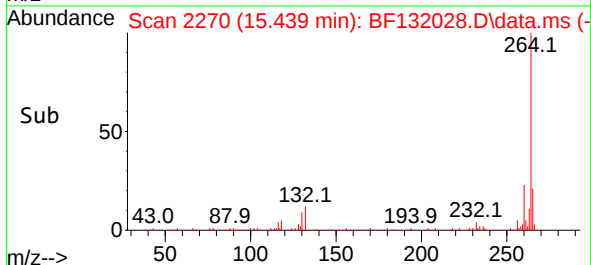
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023

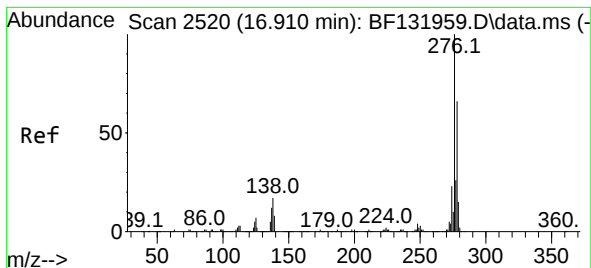


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.439 min Scan# 2270  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56



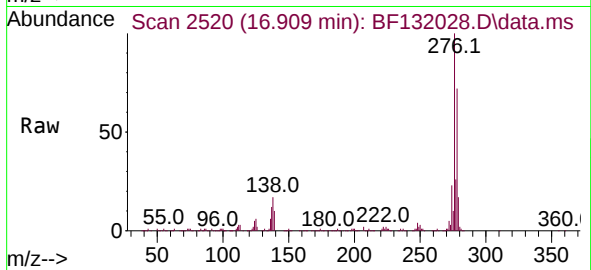
Tgt Ion:264 Resp: 145219  
Ion Ratio Lower Upper  
264 100  
260 23.2 18.3 27.5  
265 20.9 16.9 25.3





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 52.501 ng  
RT: 16.909 min Scan# 2198  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

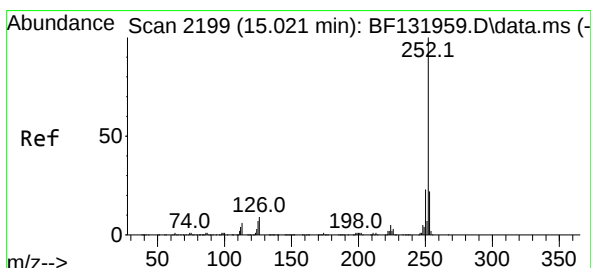
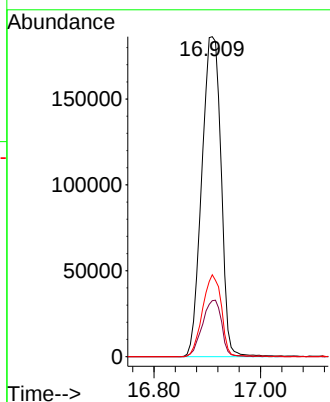
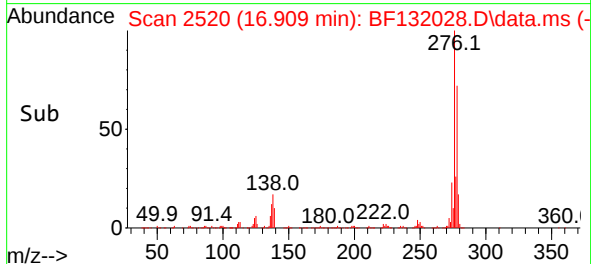
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:276 Resp: 467586  
Ion Ratio Lower Upper  
276 100  
138 17.6 14.2 21.2  
277 25.0 20.2 30.4

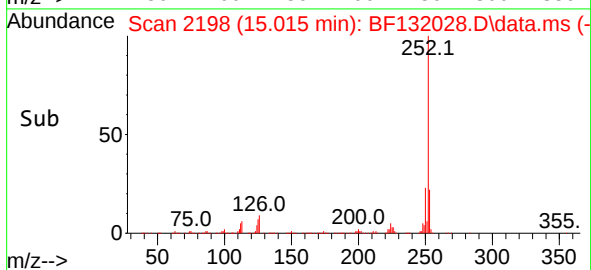
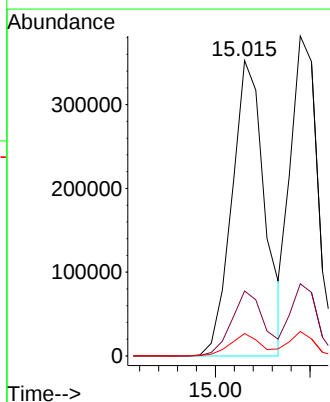
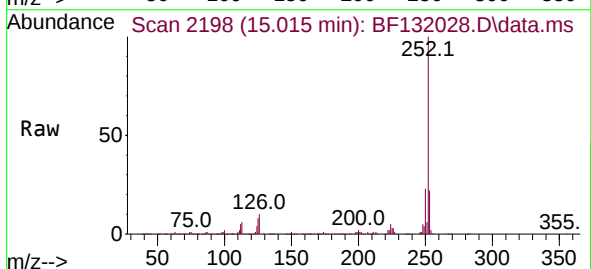
Manual Integrations  
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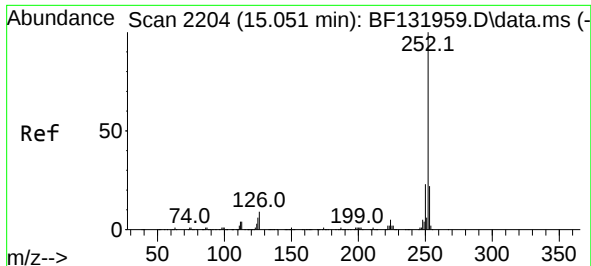
Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#88  
Benzo(b)fluoranthene  
Concen: 42.635 ng  
RT: 15.015 min Scan# 2198  
Delta R.T. -0.006 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion:252 Resp: 424660  
Ion Ratio Lower Upper  
252 100  
253 22.0 18.0 27.0  
125 7.6 5.8 8.6





#89

Benzo(k)fluoranthene

Concen: 37.914 ng

RT: 15.045 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

H-5-MIDDLE(4-8)MSD

Tgt Ion:252 Resp: 376883

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.6

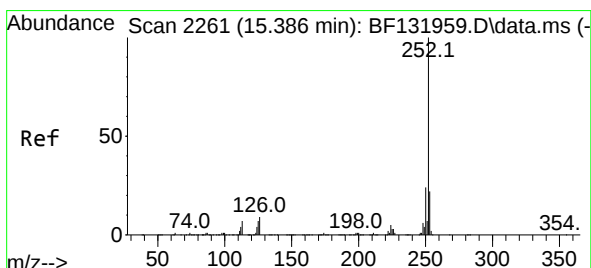
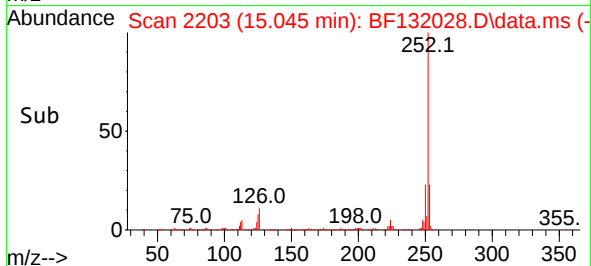
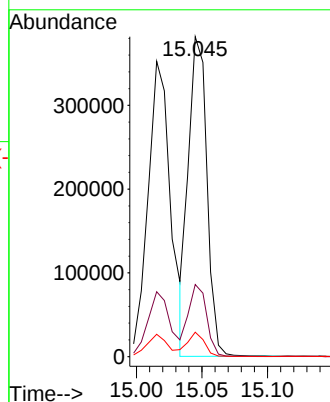
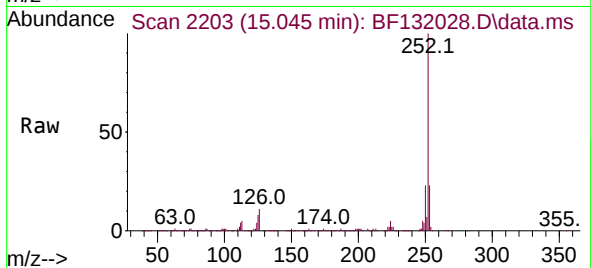
125 7.6 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#90

Benzo(a)pyrene

Concen: 40.341 ng

RT: 15.380 min Scan# 2260

Delta R.T. -0.006 min

Lab File: BF132028.D

Acq: 11 Jan 2023 17:56

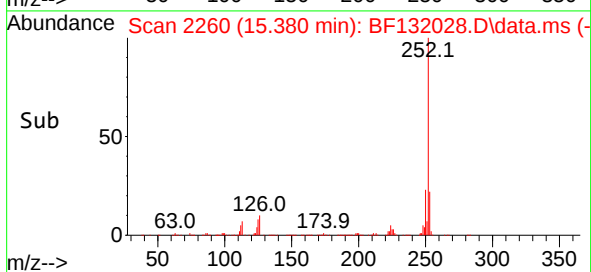
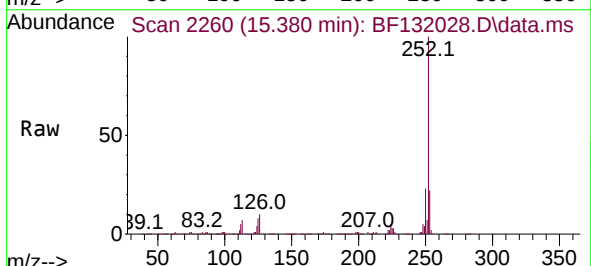
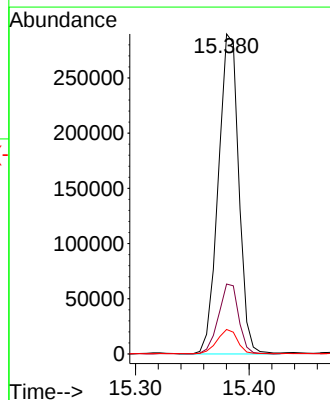
Tgt Ion:252 Resp: 362022

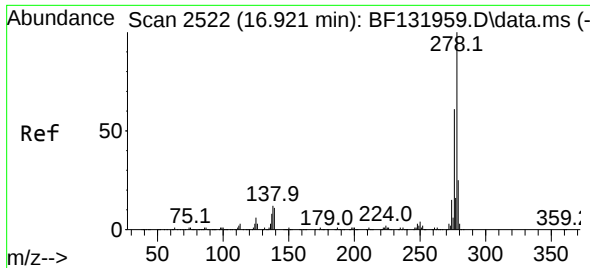
Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.0

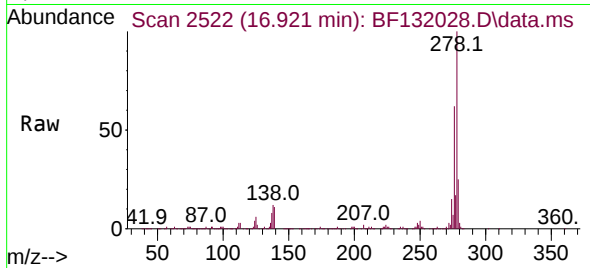
125 7.6 5.7 8.5





#91  
Dibenzo(a,h)anthracene  
Concen: 52.967 ng  
RT: 16.921 min Scan# 2522  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

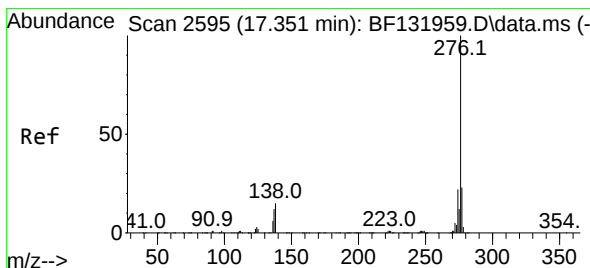
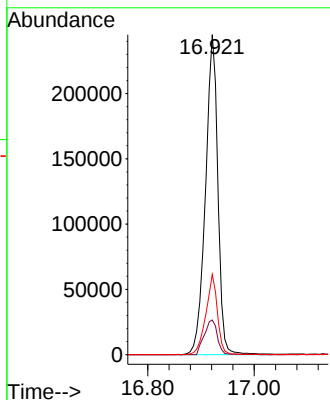
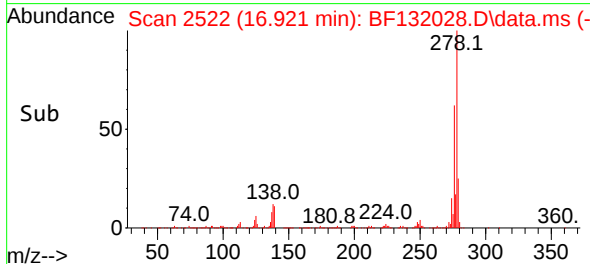
Instrument :  
BNA\_F  
ClientSampleId :  
H-5-MIDDLE(4-8)MSD



Tgt Ion:278 Resp: 395450  
Ion Ratio Lower Upper  
278 100  
139 10.8 8.8 13.2  
279 25.1 19.8 29.6

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 01/12/2023  
Supervised By :Jagrut Upadhyay 01/12/2023



#92  
Benzo(g,h,i)perylene  
Concen: 47.400 ng  
RT: 17.351 min Scan# 2595  
Delta R.T. -0.000 min  
Lab File: BF132028.D  
Acq: 11 Jan 2023 17:56

Tgt Ion:276 Resp: 378550  
Ion Ratio Lower Upper  
276 100  
277 22.4 18.2 27.2  
138 15.2 11.7 17.5

