

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071625\  
 Data File : BF143123.D  
 Acq On : 16 Jul 2025 22:38  
 Operator : RC/JU  
 Sample : Q2592-02MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-SOIL-20250711MSD

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 07/17/2025  
 Supervised By :Jagrut Upadhyay 07/17/2025

Quant Time: Jul 17 03:46:35 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF071525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 15 17:53:25 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.969  | 152  | 155046   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.245  | 136  | 589623   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 10.004 | 164  | 296871   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.492 | 188  | 461806   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.127 | 240  | 242870   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.633 | 264  | 288284   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.604  | 112  | 985165   | 100.389 | ng    | 0.02     |
| 7) Phenol-d6                  | 6.587  | 99   | 1187920  | 96.301  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.522  | 82   | 868402   | 82.622  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.792 | 330  | 335959   | 126.918 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.322  | 172  | 1531577  | 68.578  | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.074 | 244  | 1141518  | 68.707  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.051  | 88   | 158532   | 32.453  | ng    | # 88     |
| 3) Pyridine                   | 3.746  | 79   | 359677   | 29.076  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.657  | 42   | 235146   | 36.690  | ng    | 99       |
| 6) Aniline                    | 6.628  | 93   | 248322   | 14.295  | ng    | 99       |
| 8) 2-Chlorophenol             | 6.751  | 128  | 399351   | 40.503  | ng    | 98       |
| 9) Benzaldehyde               | 6.516  | 77   | 208065   | 22.136  | ng    | 99       |
| 10) Phenol                    | 6.604  | 94   | 474280   | 35.516  | ng    | 100      |
| 11) bis(2-Chloroethyl)ether   | 6.698  | 93   | 401788   | 38.865  | ng    | 100      |
| 12) 1,3-Dichlorobenzene       | 6.910  | 146  | 401439   | 36.039  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.986  | 146  | 403710   | 36.025  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.139  | 146  | 390356   | 36.527  | ng    | 100      |
| 15) Benzyl Alcohol            | 7.098  | 79   | 377846   | 41.339  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.239  | 45   | 712236   | 37.375  | ng    | 99       |
| 17) 2-Methylphenol            | 7.210  | 107  | 341828   | 40.174  | ng    | 99       |
| 18) Hexachloroethane          | 7.486  | 117  | 140139   | 38.414  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.375  | 70   | 303492   | 40.159  | ng    | 99       |
| 20) 3+4-Methylphenols         | 7.363  | 107  | 420120   | 40.262  | ng    | 97       |
| 22) Acetophenone              | 7.369  | 105  | 555372   | 39.074  | ng    | # 93     |
| 24) Nitrobenzene              | 7.545  | 77   | 436738   | 43.043  | ng    | 99       |
| 25) Isophorone                | 7.781  | 82   | 836111   | 41.156  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.857  | 139  | 183091   | 45.388  | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.892  | 122  | 393628   | 41.746  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.992  | 93   | 511274   | 41.502  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.098  | 162  | 331282   | 42.946  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.186  | 180  | 342733   | 39.150  | ng    | 98       |
| 31) Naphthalene               | 8.269  | 128  | 1148259  | 39.217  | ng    | 100      |
| 33) 4-Chloroaniline           | 8.310  | 127  | 45970    | 3.904   | ng    | 98       |
| 34) Hexachlorobutadiene       | 8.392  | 225  | 205545   | 39.259  | ng    | 99       |
| 35) Caprolactam               | 8.663  | 113  | 86853m   | 36.057  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.786  | 107  | 366909   | 42.700  | ng    | 98       |
| 37) 2-Methylnaphthalene       | 8.963  | 142  | 713317   | 40.837  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 9.063  | 142  | 735969   | 40.624  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.128  | 216  | 345751   | 39.964  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.122  | 237  | 383185   | 79.887  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 9.233  | 196  | 237559   | 44.192  | ng    | 98       |
| 44) 2,4,5-Trichlorophenol     | 9.275  | 196  | 243096   | 43.128  | ng    | 99       |

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Manual Integrations  
 APPROVED

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 Supervised By :Jagrut Upadhyay 07/17/2025

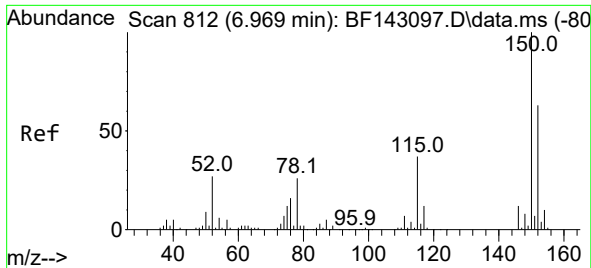
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) 1,1'-Biphenyl             | 9.428  | 154  | 957169   | 40.430 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.451  | 162  | 694587   | 39.937 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.539  | 65   | 227895   | 44.159 | ng    | 96       |
| 49) Acenaphthylene            | 9.869  | 152  | 1183859  | 40.849 | ng    | 99       |
| 50) Dimethylphthalate         | 9.722  | 163  | 822343   | 44.031 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.780  | 165  | 167499   | 45.539 | ng    | 91       |
| 52) Acenaphthene              | 10.039 | 154  | 682900   | 39.930 | ng    | 100      |
| 53) 3-Nitroaniline            | 9.945  | 138  | 97193    | 24.084 | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 10.045 | 184  | 22054    | 24.116 | ng    | # 1      |
| 55) Dibenzofuran              | 10.210 | 168  | 1040598  | 40.822 | ng    | 99       |
| 56) 4-Nitrophenol             | 10.098 | 139  | 226579   | 70.644 | ng    | 97       |
| 57) 2,4-Dinitrotoluene        | 10.180 | 165  | 214229   | 46.591 | ng    | 99       |
| 58) Fluorene                  | 10.557 | 166  | 764679   | 40.011 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.327 | 232  | 199674   | 44.577 | ng    | 98       |
| 60) Diethylphthalate          | 10.422 | 149  | 771529   | 42.818 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.545 | 204  | 381957   | 41.698 | ng    | 99       |
| 62) 4-Nitroaniline            | 10.557 | 138  | 152045   | 43.324 | ng    | 98       |
| 63) Azobenzene                | 10.704 | 77   | 841015   | 42.203 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.586 | 198  | 29165    | 22.144 | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 10.663 | 169  | 682136   | 42.051 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 11.033 | 248  | 230049   | 43.804 | ng    | 98       |
| 68) Hexachlorobenzene         | 11.104 | 284  | 243166   | 43.638 | ng    | 97       |
| 69) Atrazine                  | 11.180 | 200  | 192588   | 46.405 | ng    | 96       |
| 70) Pentachlorophenol         | 11.292 | 266  | 218021   | 71.314 | ng    | 99       |
| 71) Phenanthrene              | 11.516 | 178  | 1028670  | 41.274 | ng    | 100      |
| 72) Anthracene                | 11.569 | 178  | 1040808  | 41.528 | ng    | 99       |
| 73) Carbazole                 | 11.716 | 167  | 918194   | 40.894 | ng    | 100      |
| 74) Di-n-butylphthalate       | 12.051 | 149  | 973531   | 47.235 | ng    | 100      |
| 75) Fluoranthene              | 12.704 | 202  | 940517   | 41.503 | ng    | 99       |
| 77) Benzidine                 | 12.816 | 184  | 133752   | 16.165 | ng    | 99       |
| 78) Pyrene                    | 12.933 | 202  | 913146   | 40.522 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.545 | 149  | 226545   | 49.895 | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.121 | 228  | 700338   | 43.273 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.074 | 252  | 72202    | 15.363 | ng    | 99       |
| 83) Chrysene                  | 14.157 | 228  | 626869   | 42.056 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.110 | 149  | 344266   | 50.248 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.727 | 149  | 680638   | 52.034 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.180 | 276  | 928932   | 43.324 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.192 | 252  | 707624   | 42.554 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.221 | 252  | 722763   | 45.560 | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.574 | 252  | 704754   | 44.811 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.198 | 278  | 764803   | 43.634 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.645 | 276  | 746877   | 41.795 | ng    | 99       |

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

## Manual Integrations

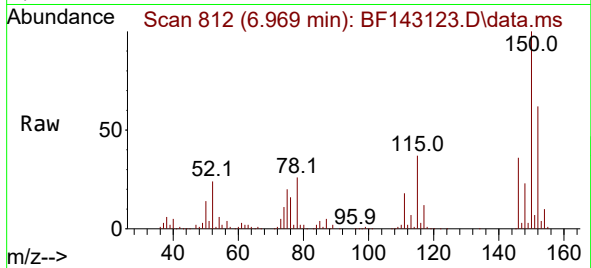
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

[illegible]



#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.969 min Scan# 812  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

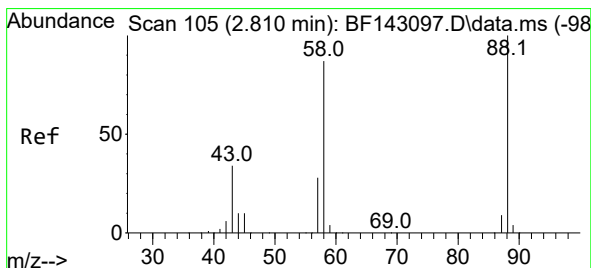
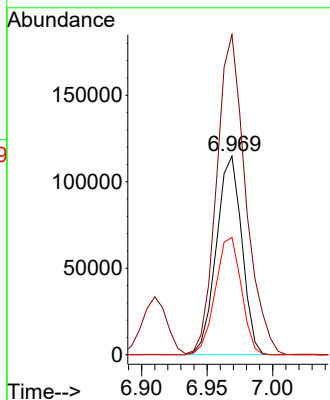
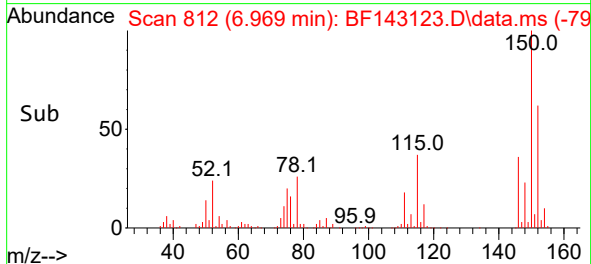
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



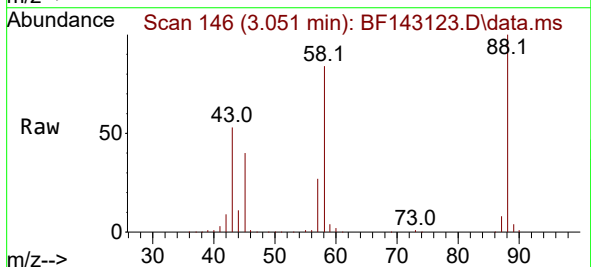
Tgt Ion:152 Resp: 155040  
Ion Ratio Lower Upper  
152 100  
150 161.3 126.5 189.7  
115 59.1 47.0 70.6

Manual Integrations  
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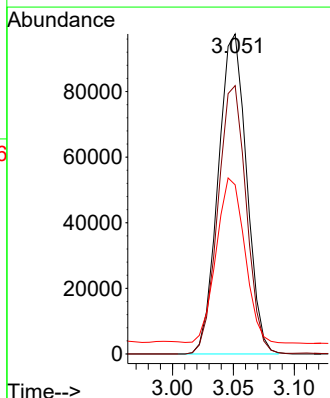
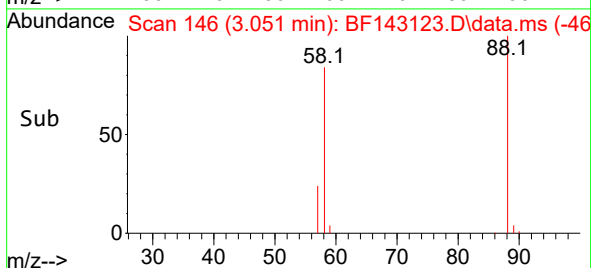
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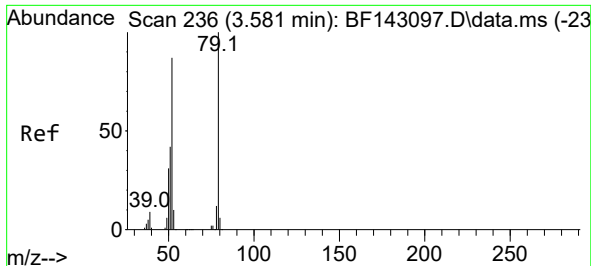


#2  
1,4-Dioxane  
Concen: 32.453 ng  
RT: 3.051 min Scan# 146  
Delta R.T. 0.241 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



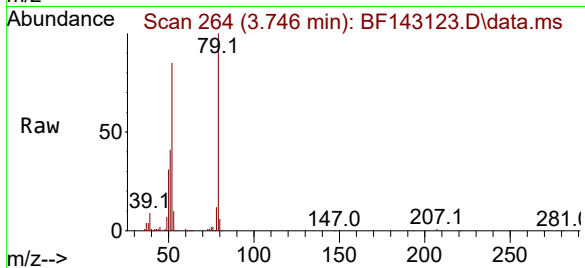
Tgt Ion: 88 Resp: 158532  
Ion Ratio Lower Upper  
88 100  
58 83.4 70.5 105.7  
43 51.5 27.3 40.9





#3  
Pyridine  
Concen: 29.076 ng  
RT: 3.746 min Scan# 20  
Delta R.T. 0.165 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

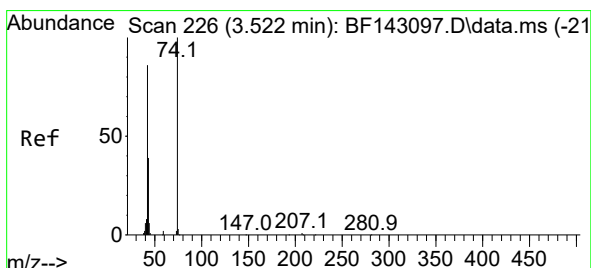
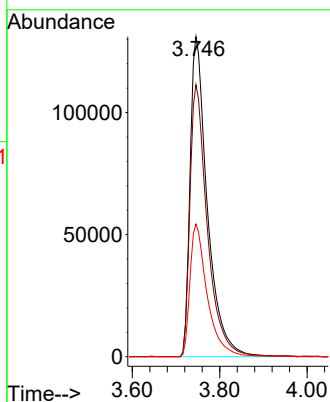
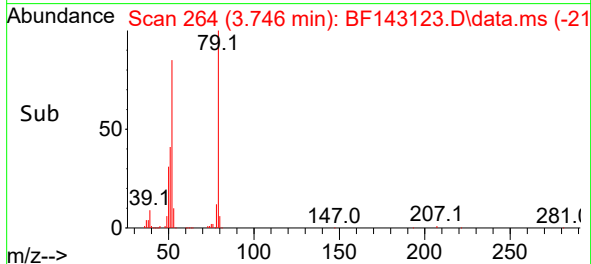
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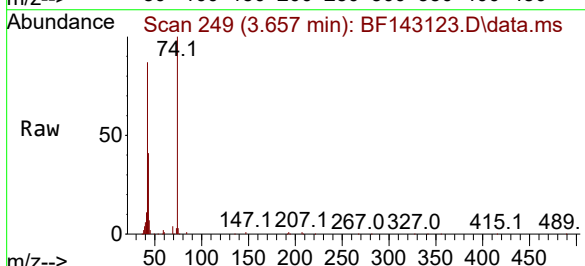
Tgt Ion: 79 Resp: 35967  
Ion Ratio Lower Upper  
79 100  
52 85.0 69.2 103.8  
51 41.4 33.3 49.9

Manual Integrations  
APPROVED

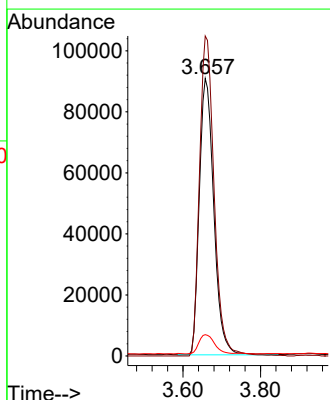
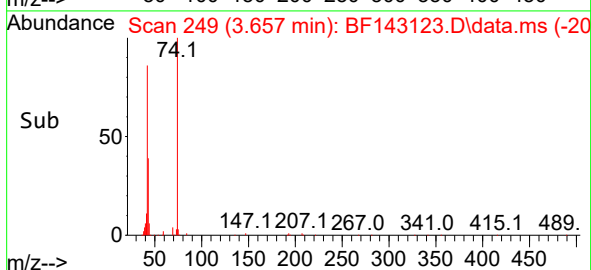
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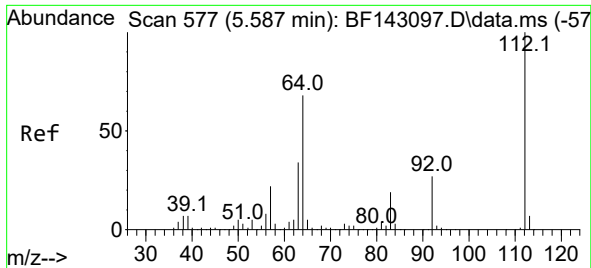


#4  
n-Nitrosodimethylamine  
Concen: 36.690 ng  
RT: 3.657 min Scan# 249  
Delta R.T. 0.135 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



Tgt Ion: 42 Resp: 235146  
Ion Ratio Lower Upper  
42 100  
74 115.3 92.8 139.2  
44 7.7 5.8 8.6





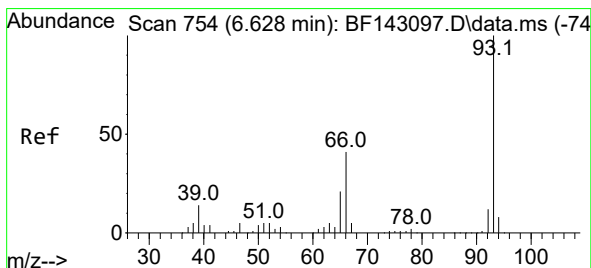
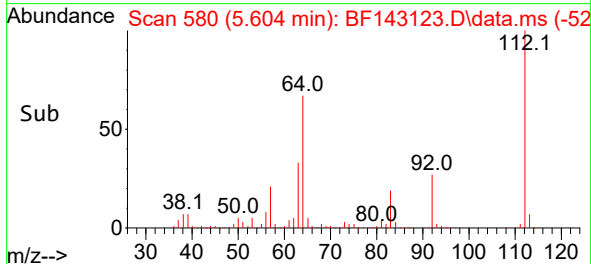
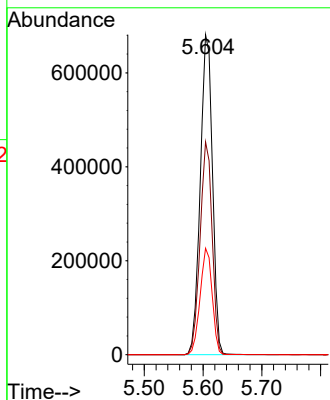
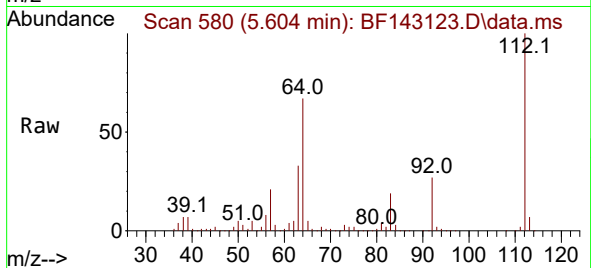
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2-Fluorophenol  
Concen: 100.389 ng  
RT: 5.604 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Instrument :  
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Tgt Ion:112 Resp: 98516  
Ion Ratio Lower Upper  
112 100  
64 66.5 54.6 82.0  
63 33.2 27.3 40.9

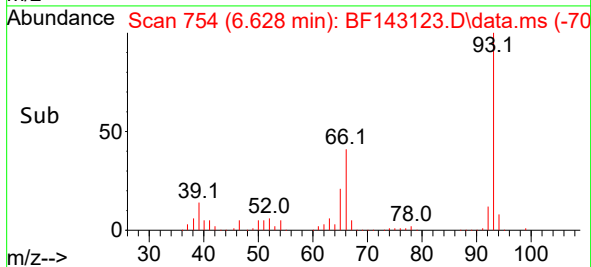
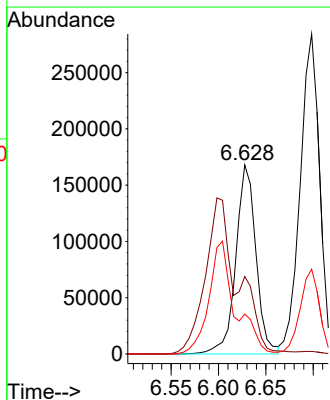
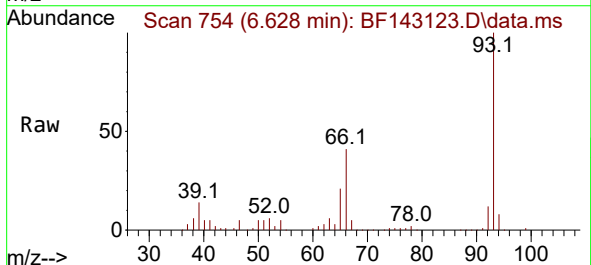
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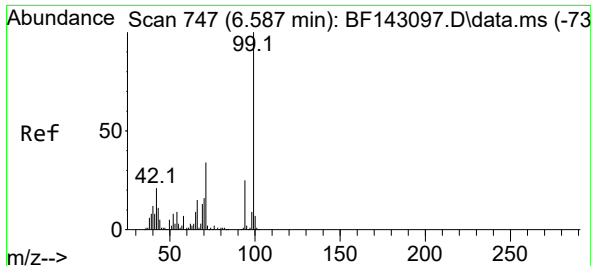
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#6  
Aniline  
Concen: 14.295 ng  
RT: 6.628 min Scan# 754  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

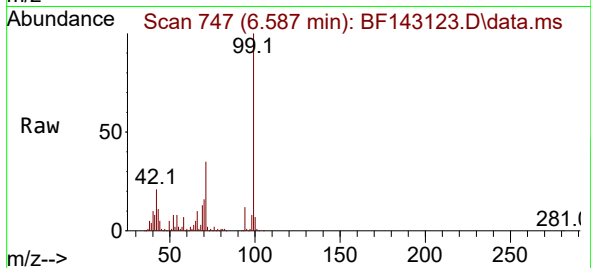
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Ion Ratio Lower Upper  
93 100  
66 40.9 33.1 49.7  
65 21.1 16.9 25.3





#7  
Phenol-d6  
Concen: 96.301 ng  
RT: 6.587 min Scan# 747  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

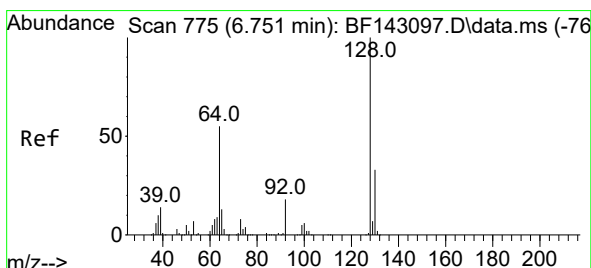
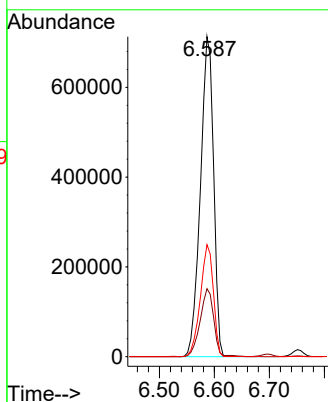
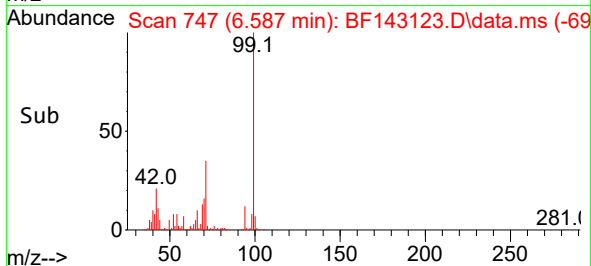
Instrument :  
BNA\_F  
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Tgt Ion: 99 Resp: 1187920  
Ion Ratio Lower Upper  
99 100  
42 21.2 17.2 25.8  
71 35.0 27.4 41.0

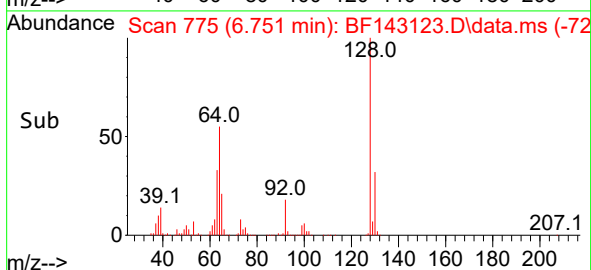
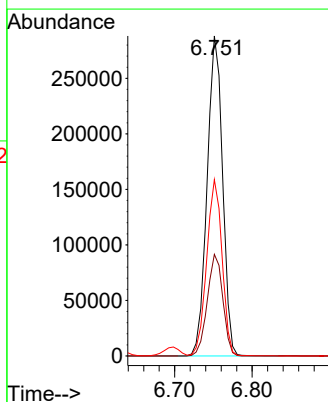
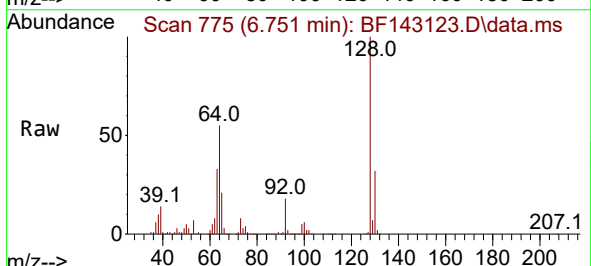
Manual Integrations  
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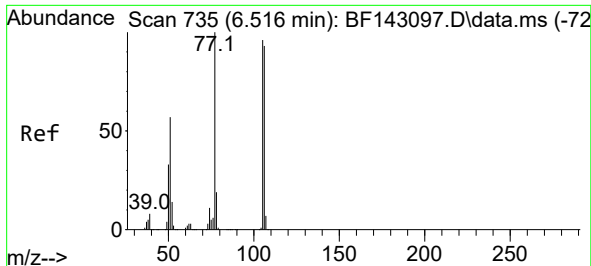
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#8  
2-Chlorophenol  
Concen: 40.503 ng  
RT: 6.751 min Scan# 775  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

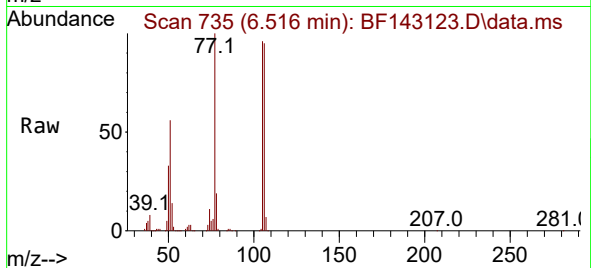
Tgt Ion:128 Resp: 399351  
Ion Ratio Lower Upper  
128 100  
130 31.8 12.8 52.8  
64 55.1 36.1 76.1





#9  
Benzaldehyde  
Concen: 22.136 ng  
RT: 6.516 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

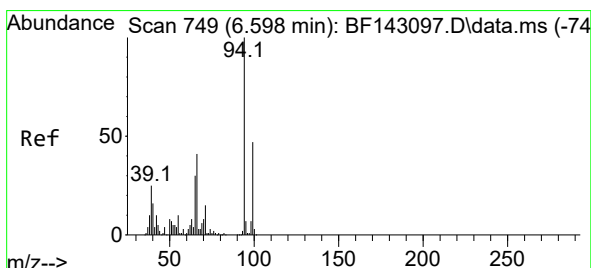
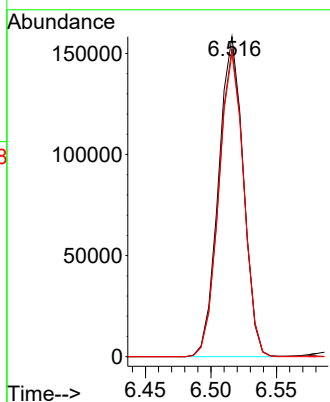
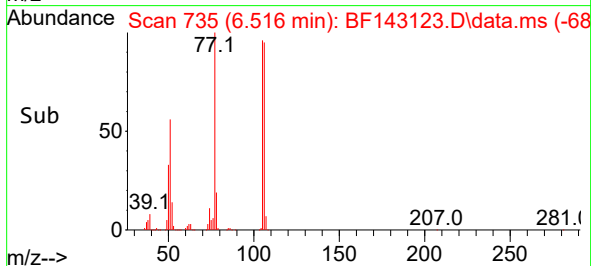
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 77 Resp: 20806  
Ion Ratio Lower Upper  
77 100  
105 96.2 76.3 116.3  
106 94.7 72.8 112.8

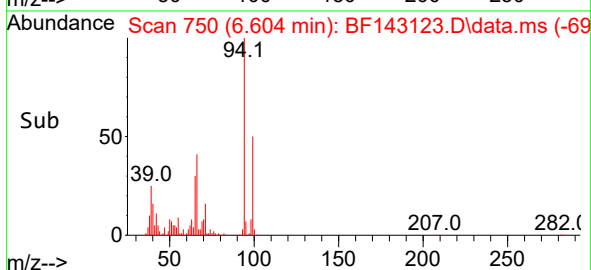
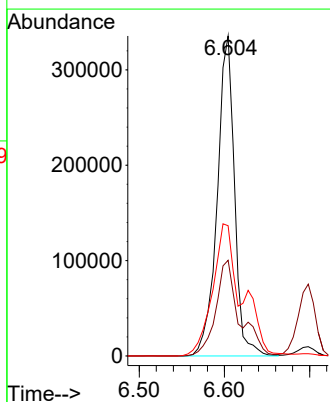
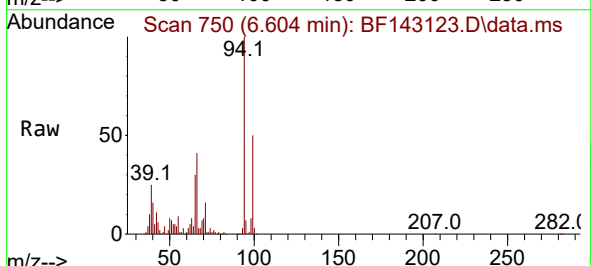
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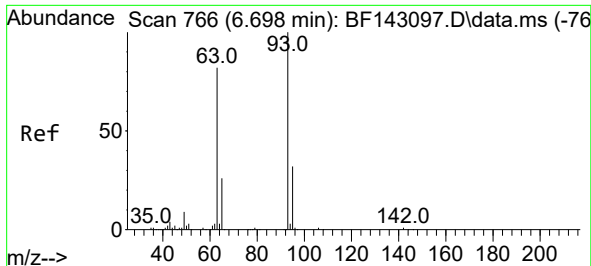
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#10  
Phenol  
Concen: 35.516 ng  
RT: 6.604 min Scan# 750  
Delta R.T. 0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Tgt Ion: 94 Resp: 474280  
Ion Ratio Lower Upper  
94 100  
65 29.9 9.8 49.8  
66 40.7 20.5 60.5





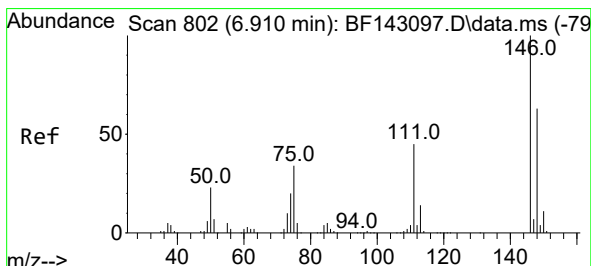
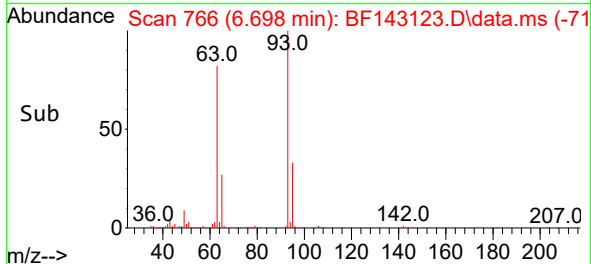
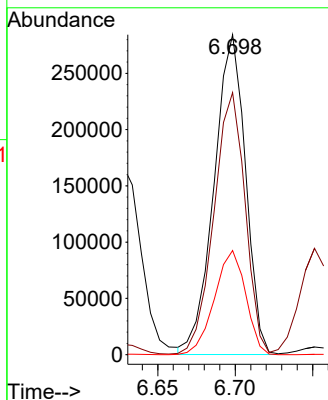
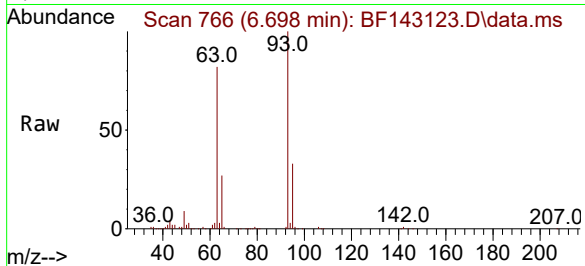
#11  
bis(2-Chloroethyl)ether  
Concen: 38.865 ng  
RT: 6.698 min Scan# 766  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD

Tgt Ion: 93 Resp: 401788  
Ion Ratio Lower Upper  
93 100  
63 81.9 61.9 101.9  
95 32.6 12.2 52.2

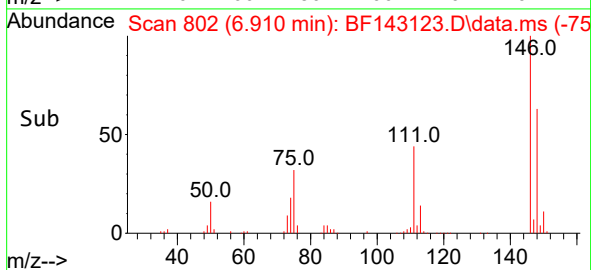
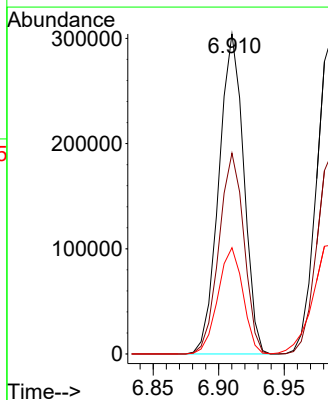
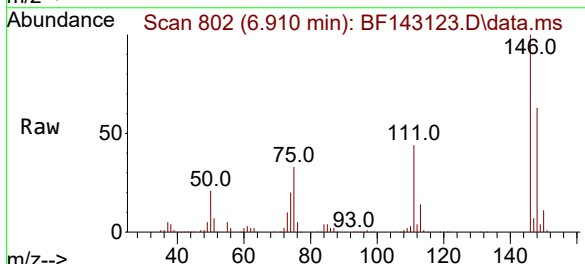
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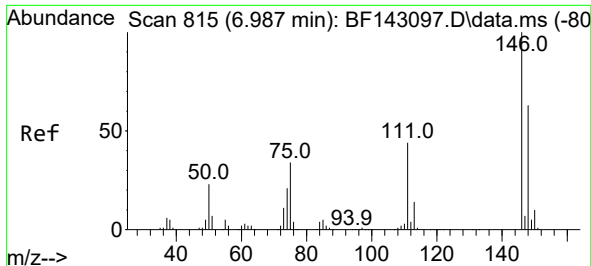
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#12  
1,3-Dichlorobenzene  
Concen: 36.039 ng  
RT: 6.910 min Scan# 802  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Tgt Ion:146 Resp: 401439  
Ion Ratio Lower Upper  
146 100  
148 62.7 50.1 75.1  
75 33.2 27.4 41.0





#13

1,4-Dichlorobenzene

Concen: 36.025 ng

RT: 6.986 min Scan# 815

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD

Tgt Ion:146 Resp: 403710

Ion Ratio Lower Upper

146 100

148 63.2 50.6 76.0

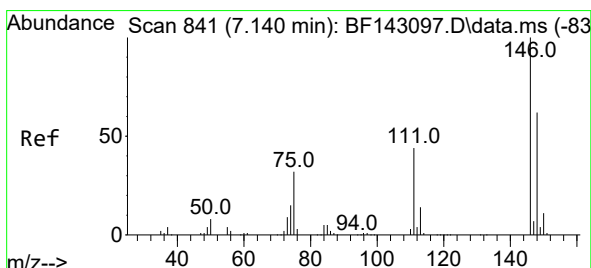
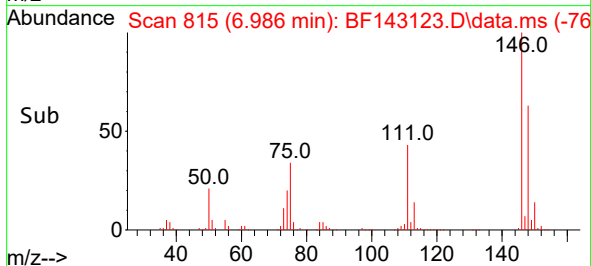
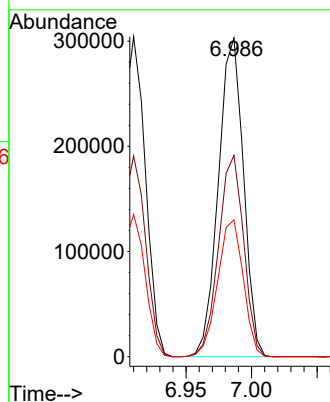
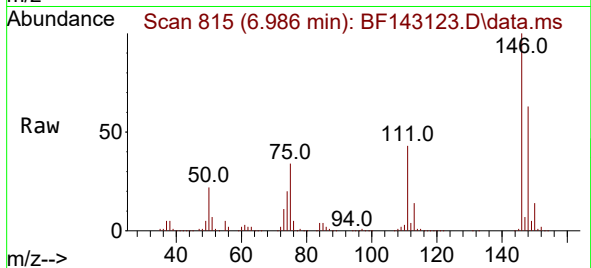
111 43.0 35.0 52.6

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Supervised By :Jagrut Upadhyay 07/17/2025



#14

1,2-Dichlorobenzene

Concen: 36.527 ng

RT: 7.139 min Scan# 841

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

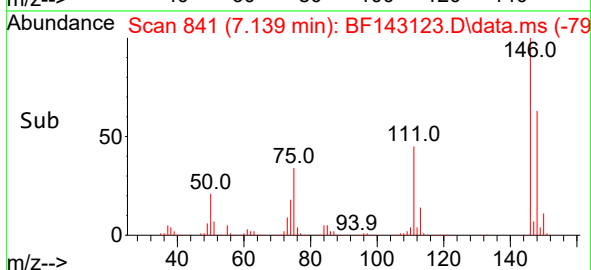
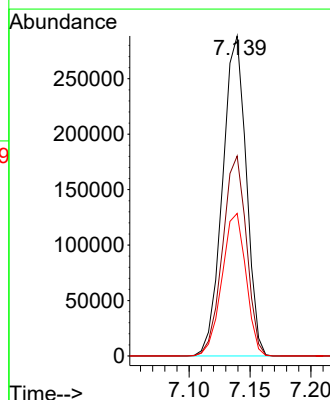
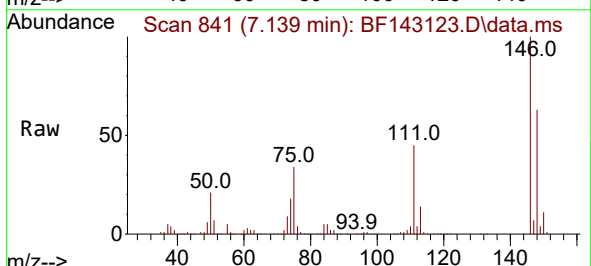
Tgt Ion:146 Resp: 390356

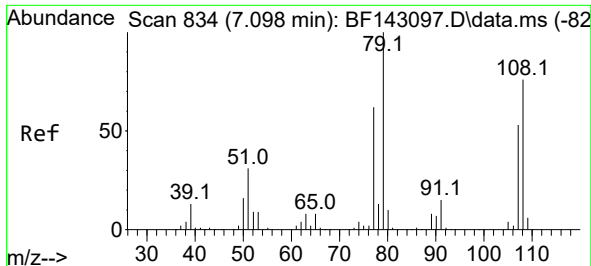
Ion Ratio Lower Upper

146 100

148 62.5 49.8 74.6

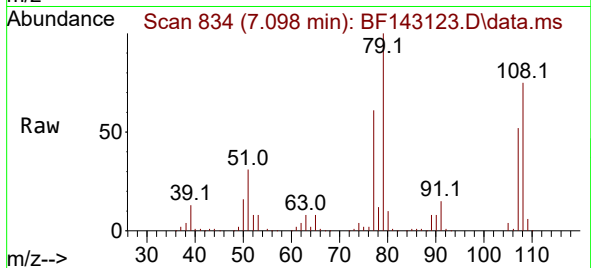
111 44.5 35.4 53.0





#15  
Benzyl Alcohol  
Concen: 41.339 ng  
RT: 7.098 min Scan# 811  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD

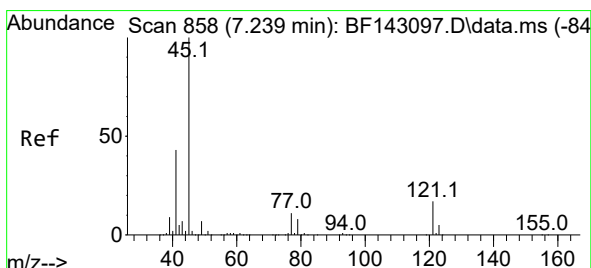
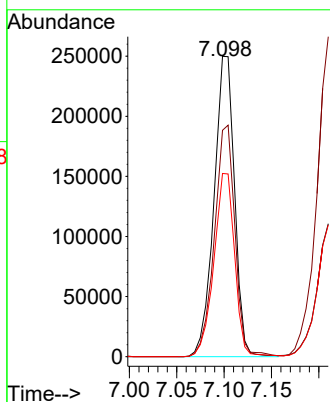
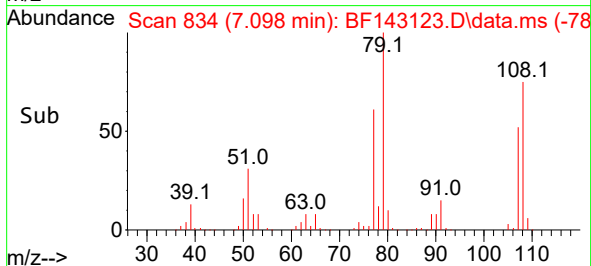


Tgt Ion: 79 Resp: 377840

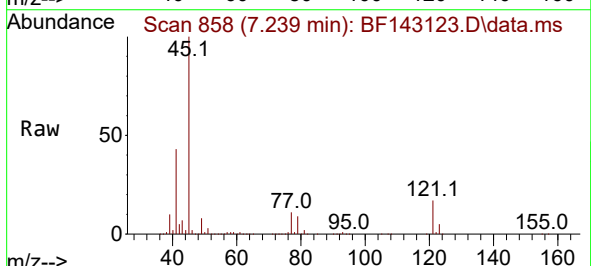
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 108 | 75.4  | 61.1  | 91.7  |
| 77  | 61.0  | 49.9  | 74.9  |

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Supervised By :Jagrut Upadhyay 07/17/2025

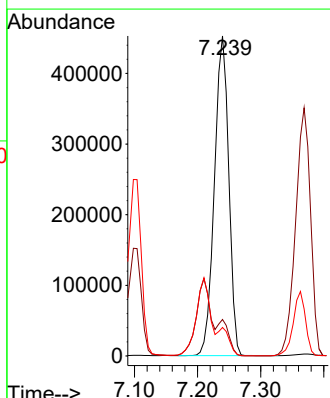
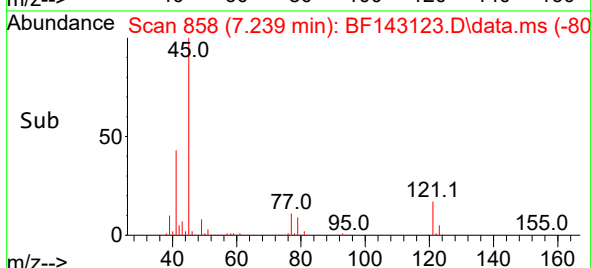


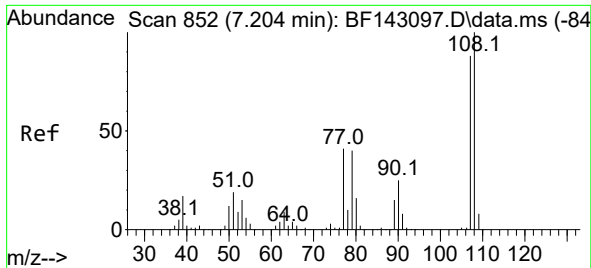
#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 37.375 ng  
RT: 7.239 min Scan# 858  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



Tgt Ion: 45 Resp: 712236

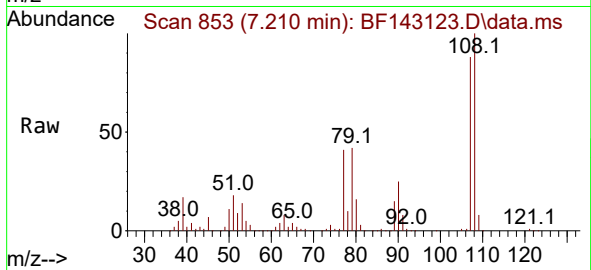
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 77  | 11.4  | 0.0   | 31.1  |
| 79  | 8.9   | 0.0   | 28.4  |





#17  
2-Methylphenol  
Concen: 40.174 ng  
RT: 7.210 min Scan# 852  
Delta R.T. 0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

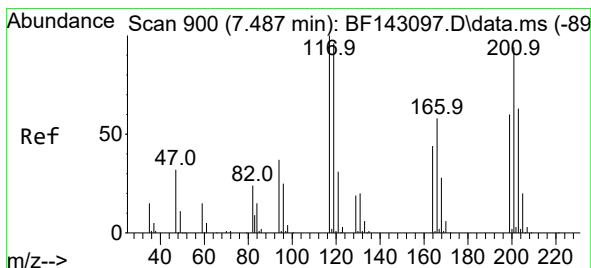
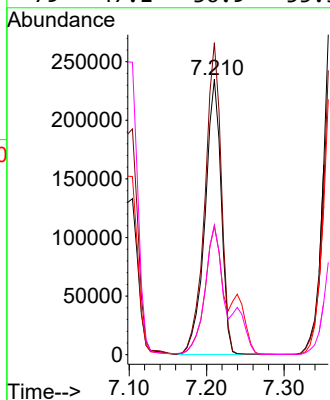
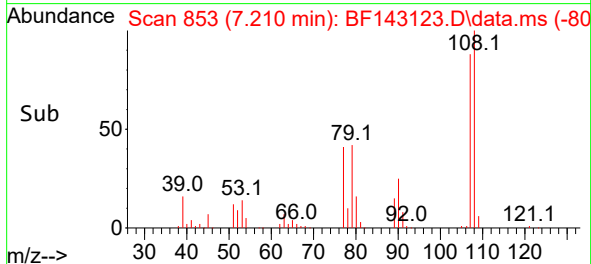
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 341828 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 113.3 | 90.9  | 136.3  |
| 77       | 46.7  | 37.5  | 56.3   |
| 79       | 47.1  | 36.9  | 55.3   |

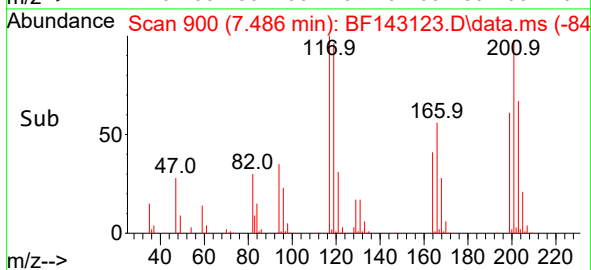
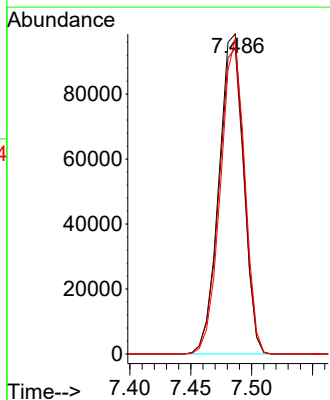
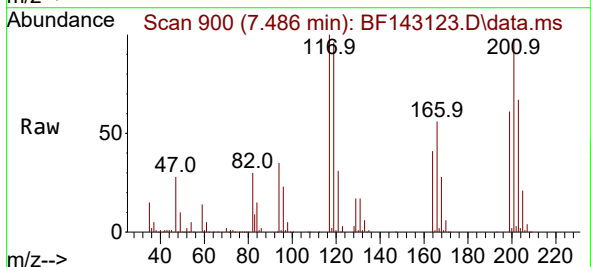
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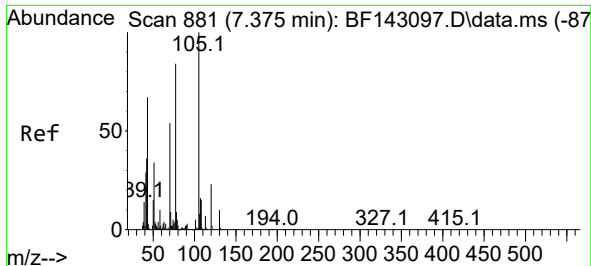
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#18  
Hexachloroethane  
Concen: 38.414 ng  
RT: 7.486 min Scan# 900  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

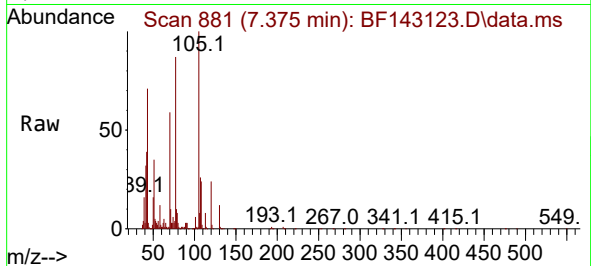
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 140139 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 95.6  | 76.7  | 115.1  |
| 201      | 98.3  | 75.0  | 112.4  |





#19  
n-Nitroso-di-n-propylamine  
Concen: 40.159 ng  
RT: 7.375 min Scan# 881  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

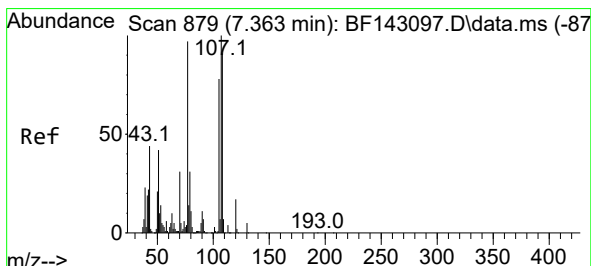
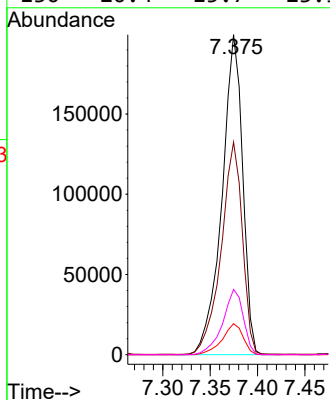
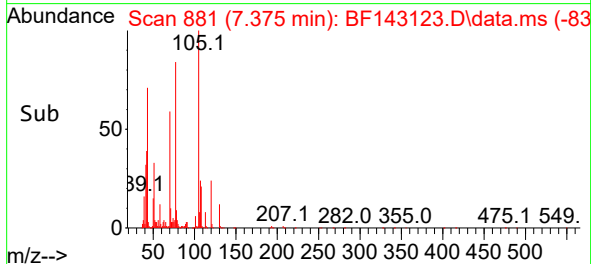
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



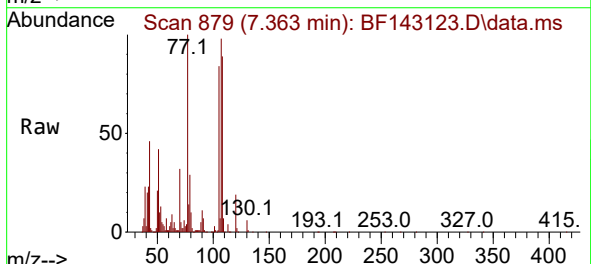
Tgt Ion: 70 Resp: 303492  
Ion Ratio Lower Upper  
70 100  
42 66.4 53.2 79.8  
101 9.7 7.5 11.3  
130 20.4 15.7 23.5

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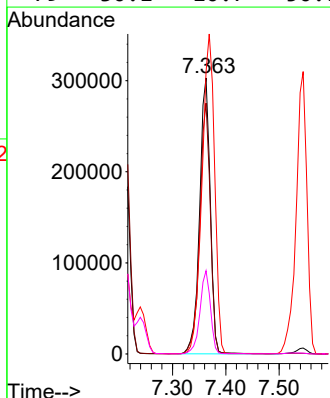
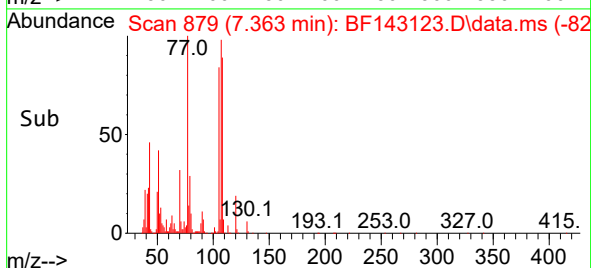
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

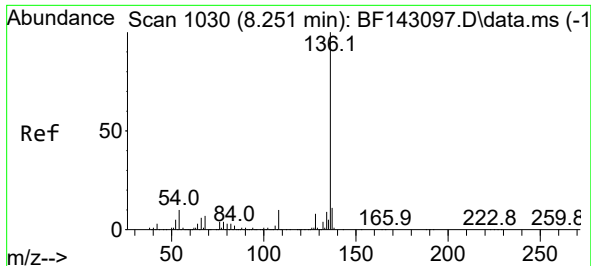


#20  
3+4-Methylphenols  
Concen: 40.262 ng  
RT: 7.363 min Scan# 879  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



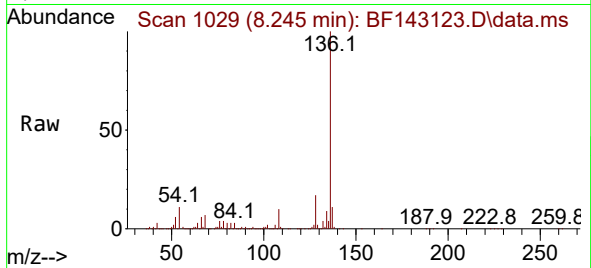
Tgt Ion:107 Resp: 420120  
Ion Ratio Lower Upper  
107 100  
108 90.9 71.3 111.3  
77 102.2 77.2 117.2  
79 30.1 10.7 50.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.245 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

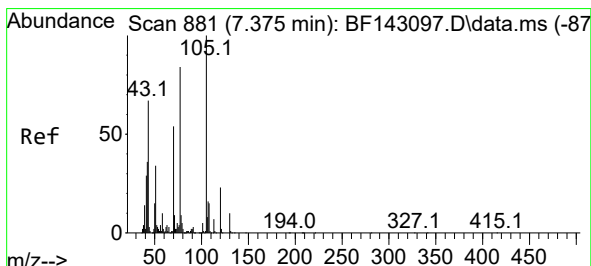
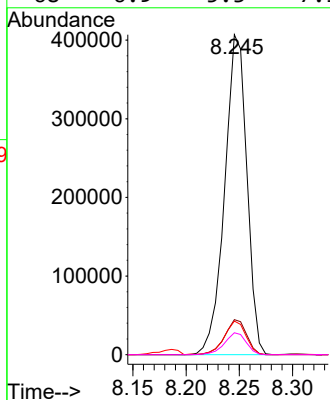
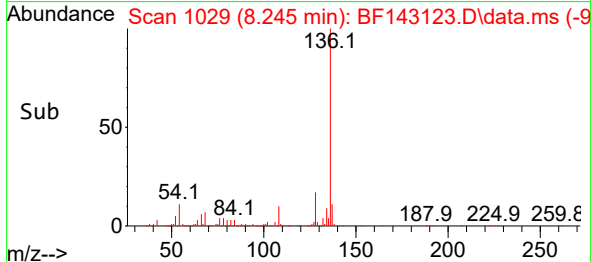
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:136 Resp: 58962  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 10.5 8.3 12.5  
68 6.9 5.3 7.9

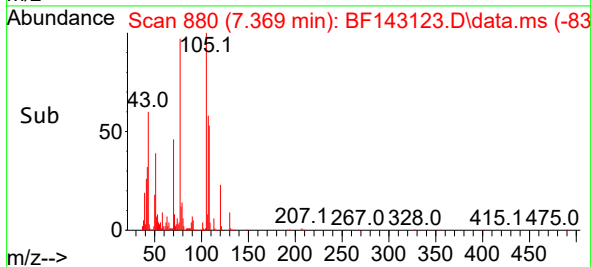
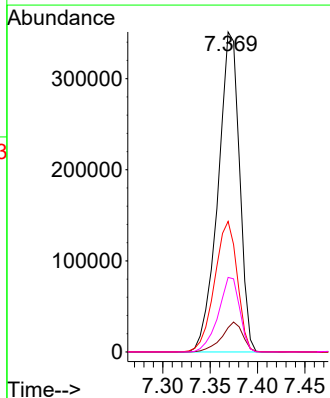
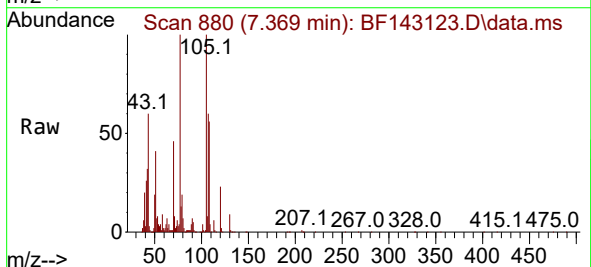
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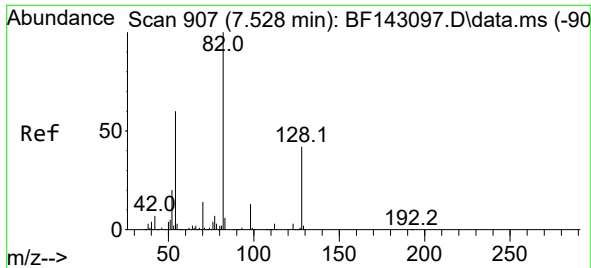
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#22  
Acetophenone  
Concen: 39.074 ng  
RT: 7.369 min Scan# 880  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

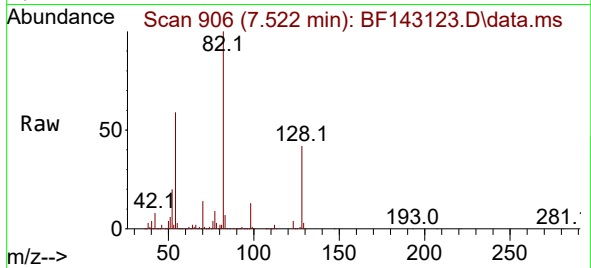
Tgt Ion:105 Resp: 555372  
Ion Ratio Lower Upper  
105 100  
71 7.6 7.2 10.8  
51 40.8 27.0 40.4#  
120 23.3 18.2 27.2





#23  
Nitrobenzene-d5  
Concen: 82.622 ng  
RT: 7.522 min Scan# 907  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

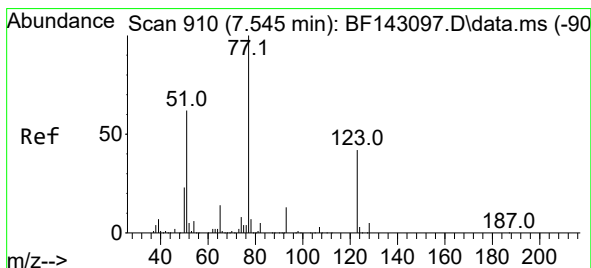
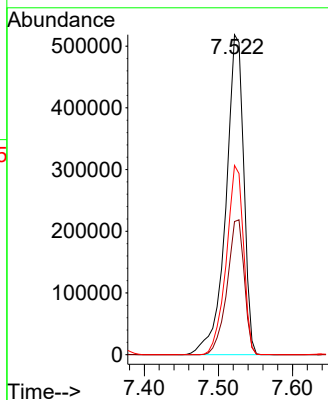
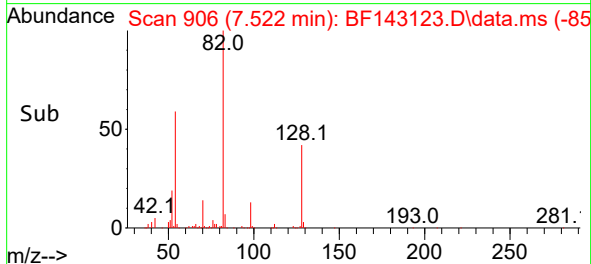
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



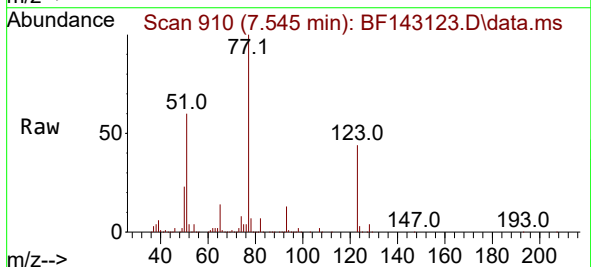
Tgt Ion: 82 Resp: 868402  
Ion Ratio Lower Upper  
82 100  
128 41.6 33.3 49.9  
54 59.1 47.4 71.2

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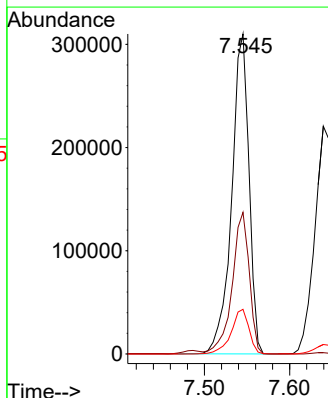
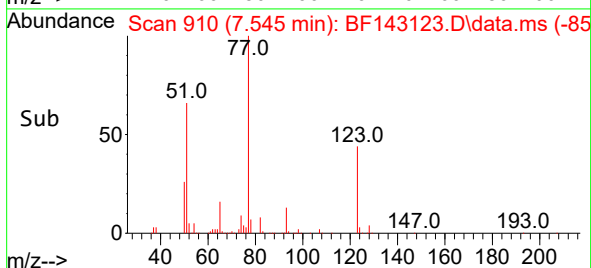
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

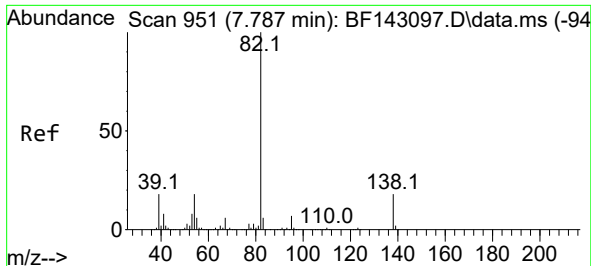


#24  
Nitrobenzene  
Concen: 43.043 ng  
RT: 7.545 min Scan# 910  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



Tgt Ion: 77 Resp: 436738  
Ion Ratio Lower Upper  
77 100  
123 44.3 34.5 51.7  
65 13.9 11.3 16.9





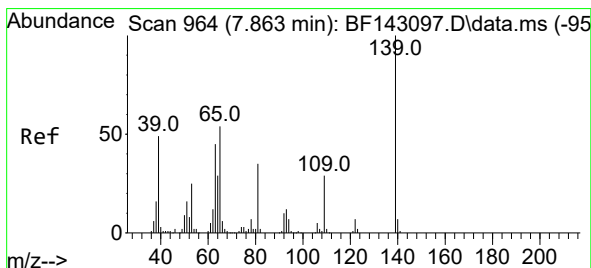
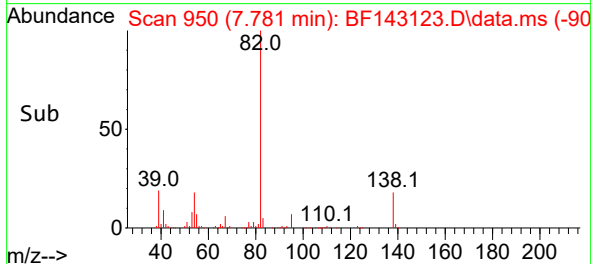
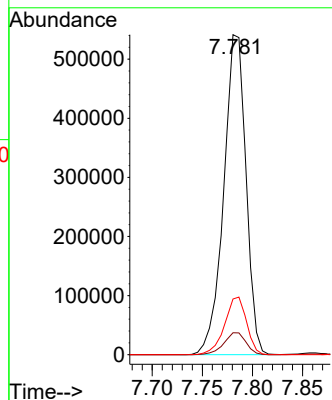
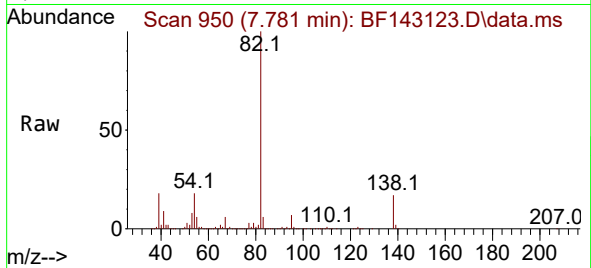
#25  
Isophorone  
Concen: 41.156 ng  
RT: 7.781 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD

Tgt Ion: 82 Resp: 83611  
Ion Ratio Lower Upper  
82 100  
95 6.8 5.6 8.4  
138 17.4 14.3 21.5

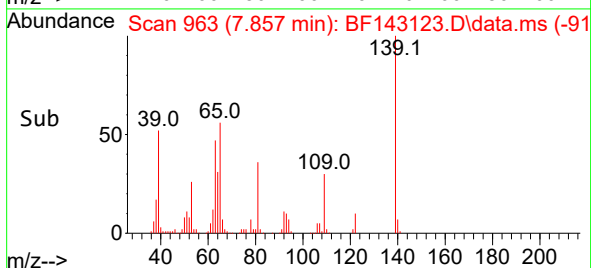
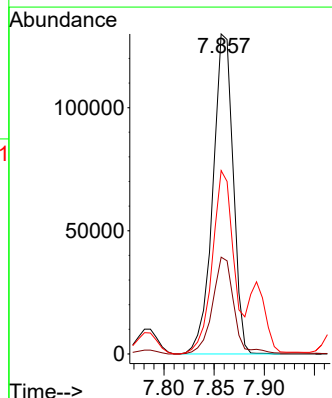
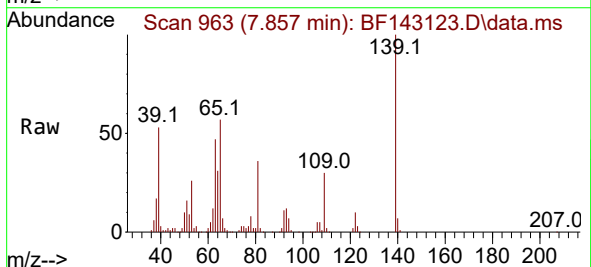
Manual Integrations  
APPROVED

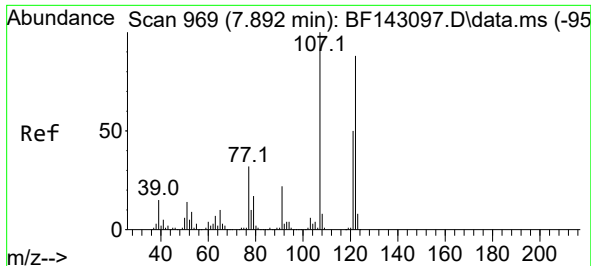
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#26  
2-Nitrophenol  
Concen: 45.388 ng  
RT: 7.857 min Scan# 963  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Tgt Ion:139 Resp: 183091  
Ion Ratio Lower Upper  
139 100  
109 30.2 23.4 35.0  
65 57.3 43.4 65.2





#27

2,4-Dimethylphenol

Concen: 41.746 ng

RT: 7.892 min Scan# 969

Delta R.T. -0.000 min

Lab File: BF143123.D

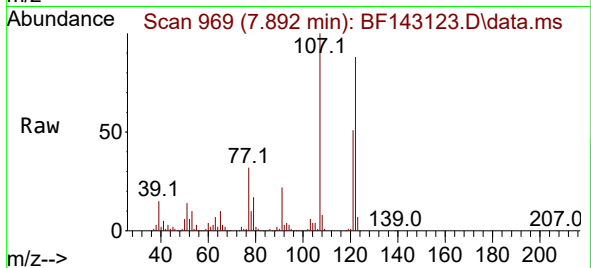
Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD



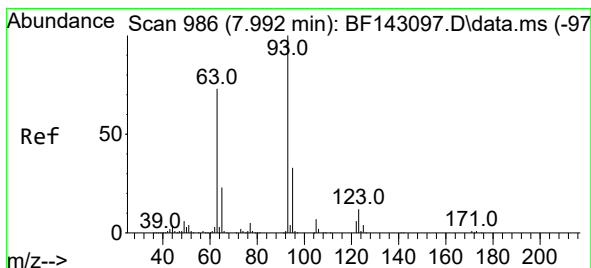
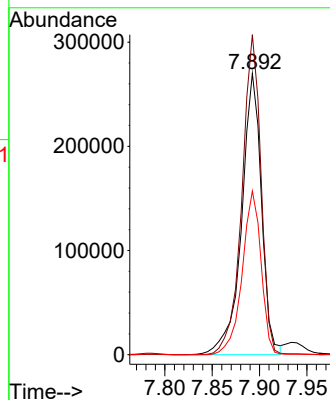
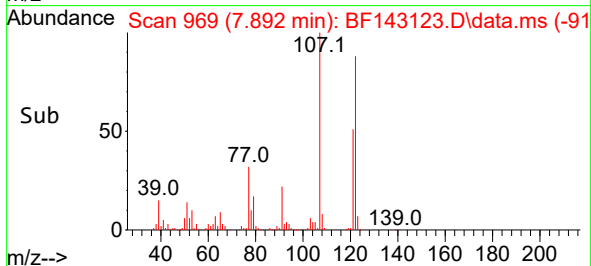
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 122   | Resp: | 393628 |
| Ion      | Ratio | Lower | Upper  |
| 122      | 100   |       |        |
| 107      | 113.8 | 91.3  | 136.9  |
| 121      | 58.2  | 45.5  | 68.3   |

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#28

bis(2-Chloroethoxy)methane

Concen: 41.502 ng

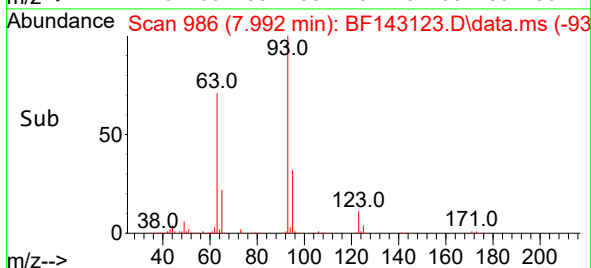
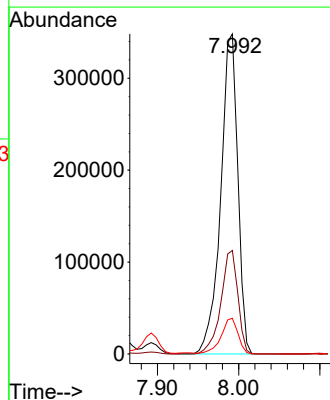
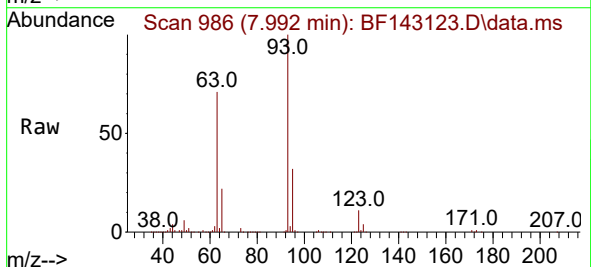
RT: 7.992 min Scan# 986

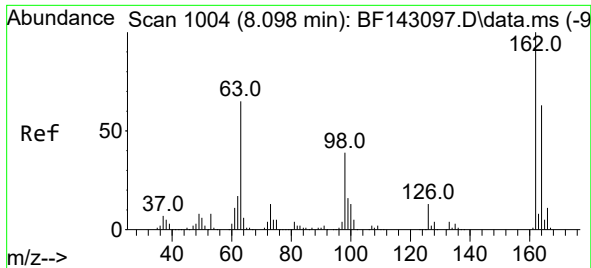
Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 511274 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 95       | 32.3  | 26.2  | 39.4   |
| 123      | 11.2  | 9.6   | 14.4   |





#29

2,4-Dichlorophenol

Concen: 42.946 ng

RT: 8.098 min Scan# 1019

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD

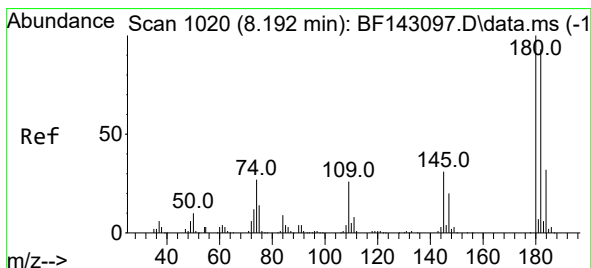
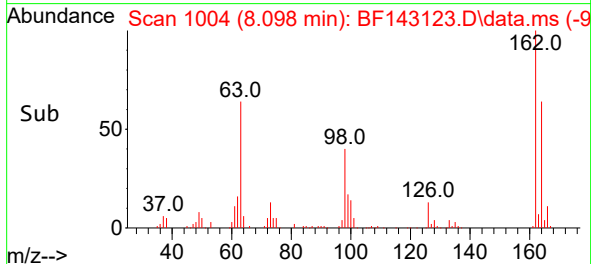
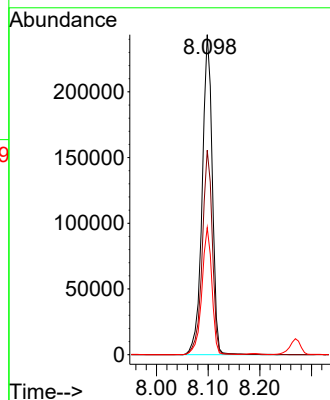
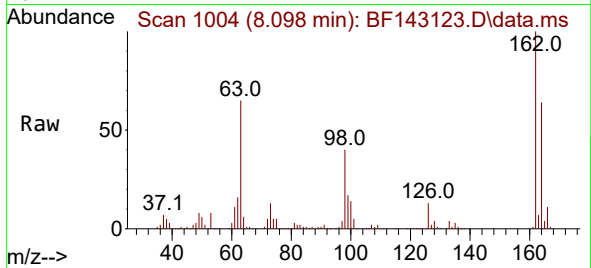
|             |             |
|-------------|-------------|
| Tgt Ion:162 | Resp: 33128 |
| Ion Ratio   | Lower Upper |
| 162 100     |             |
| 164 63.9    | 43.1 83.1   |
| 98 39.7     | 19.2 59.2   |

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#30

1,2,4-Trichlorobenzene

Concen: 39.150 ng

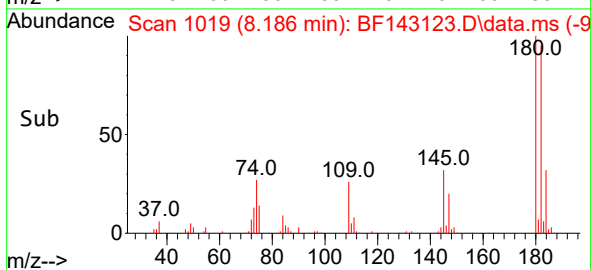
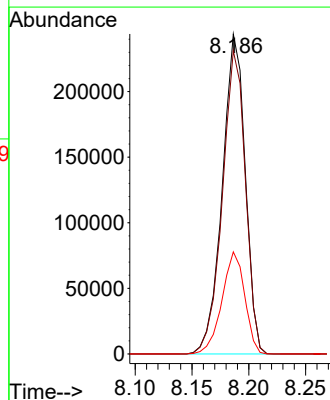
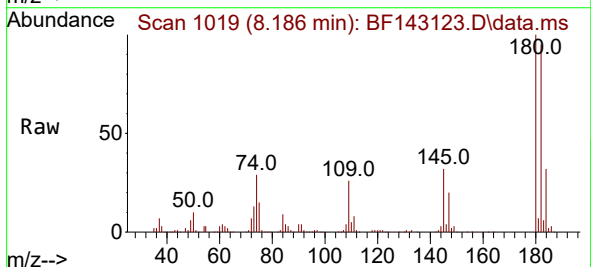
RT: 8.186 min Scan# 1019

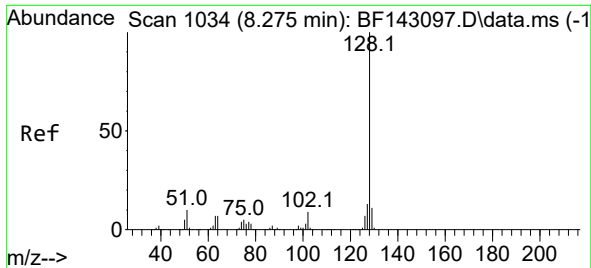
Delta R.T. -0.006 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

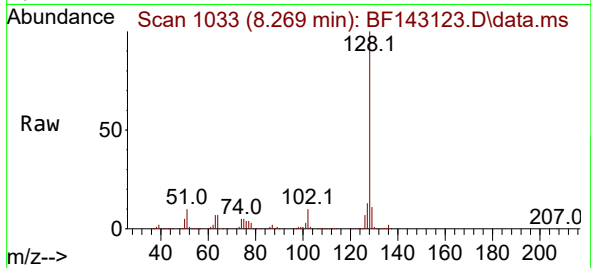
|             |              |
|-------------|--------------|
| Tgt Ion:180 | Resp: 342733 |
| Ion Ratio   | Lower Upper  |
| 180 100     |              |
| 182 94.7    | 74.7 112.1   |
| 145 31.9    | 24.5 36.7    |





#31  
Naphthalene  
Concen: 39.217 ng  
RT: 8.269 min Scan# 1033  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

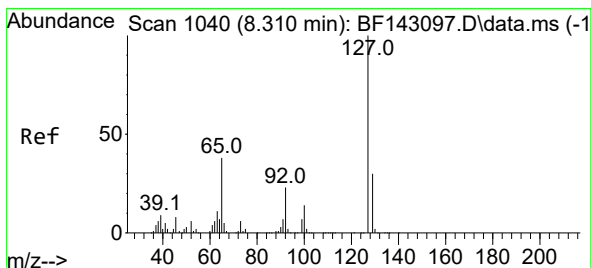
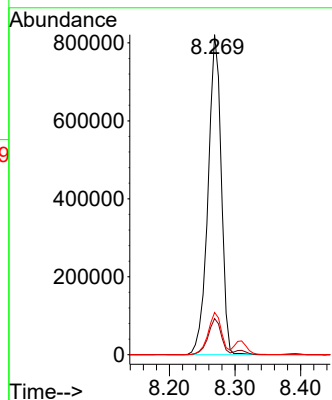
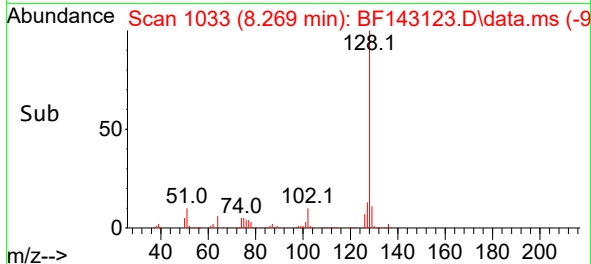
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:128 Resp: 114825  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.0 13.4  
127 13.2 10.5 15.7

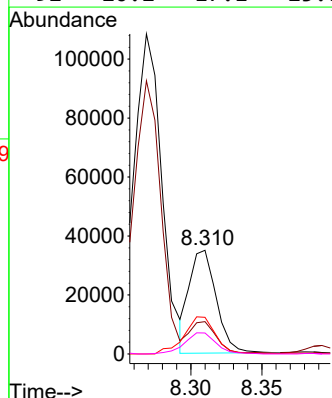
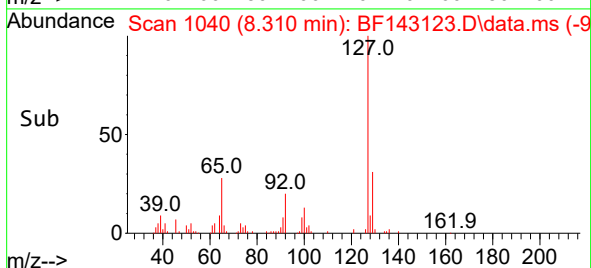
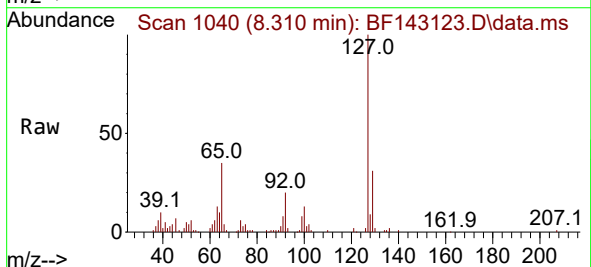
Manual Integrations  
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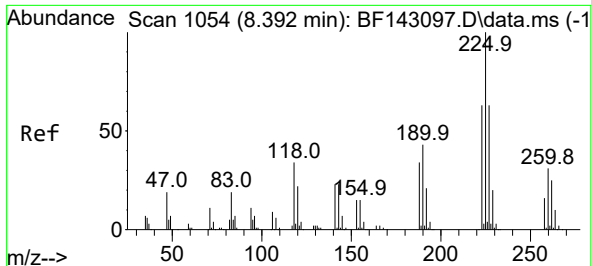
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#33  
4-Chloroaniline  
Concen: 3.904 ng  
RT: 8.310 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

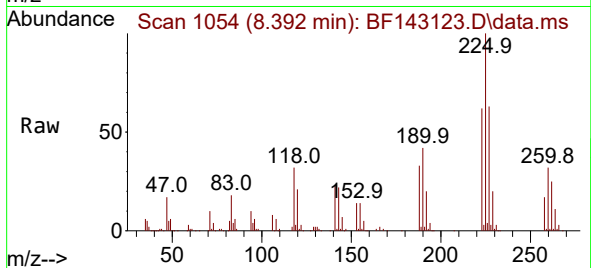
Tgt Ion:127 Resp: 45970  
Ion Ratio Lower Upper  
127 100  
129 31.2 26.2 39.4  
65 35.4 28.6 42.8  
92 20.2 17.1 25.7





#34  
Hexachlorobutadiene  
Concen: 39.259 ng  
RT: 8.392 min Scan# 1054  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

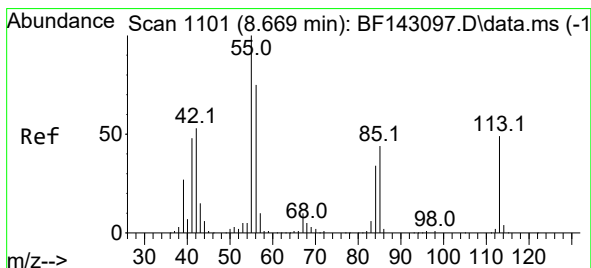
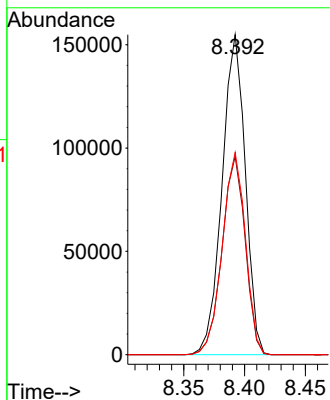
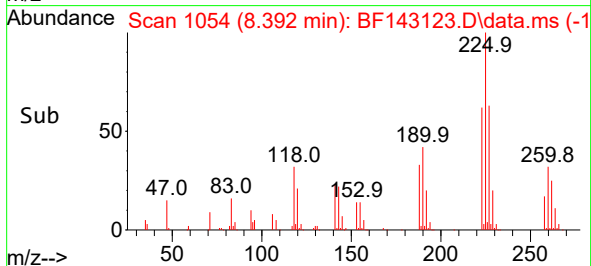
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:225 Resp: 205549  
Ion Ratio Lower Upper  
225 100  
223 61.9 50.3 75.5  
227 63.2 50.1 75.1

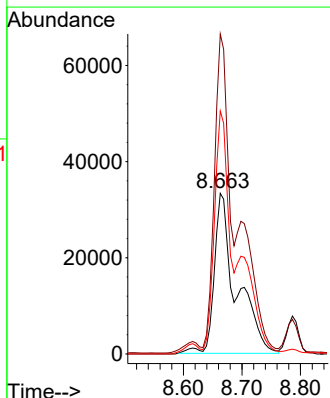
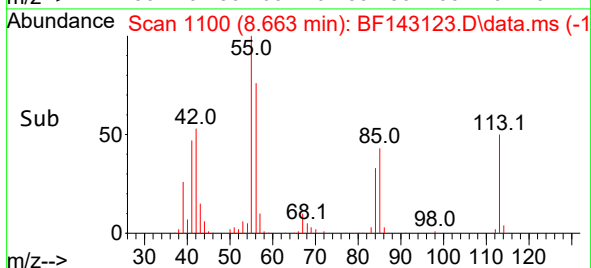
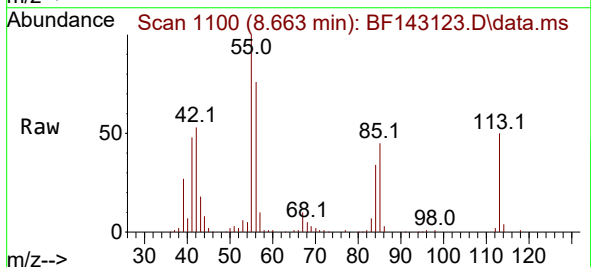
Manual Integrations  
APPROVED

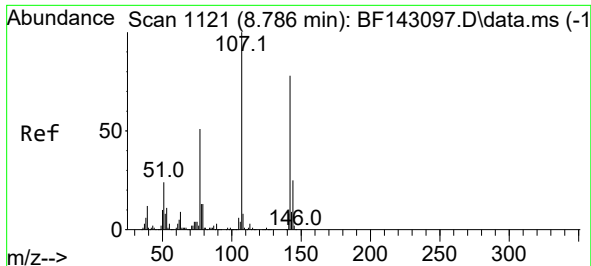
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#35  
Caprolactam  
Concen: 36.057 ng m  
RT: 8.663 min Scan# 1100  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

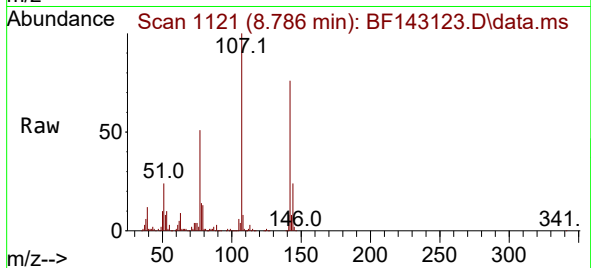
Tgt Ion:113 Resp: 86853  
Ion Ratio Lower Upper  
113 100  
55 199.1 186.2 226.2  
56 151.3 134.1 174.1





#36  
4-Chloro-3-methylphenol  
Concen: 42.700 ng  
RT: 8.786 min Scan# 1121  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

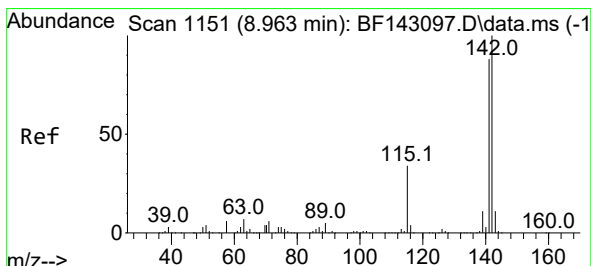
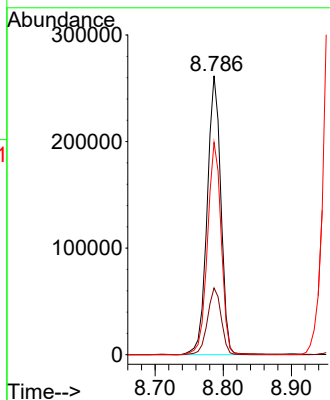
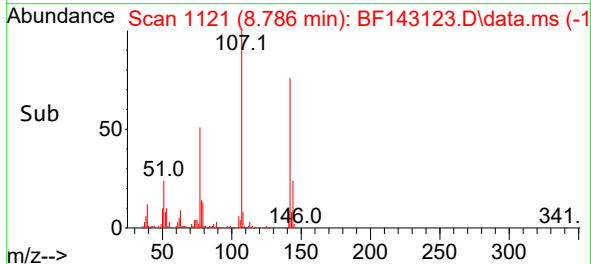
Instrument : BNA\_F  
ClientSampleId : WC-SOIL-20250711MSD



Tgt Ion:107 Resp: 366909  
Ion Ratio Lower Upper  
107 100  
144 23.9 20.2 30.2  
142 76.2 62.4 93.6

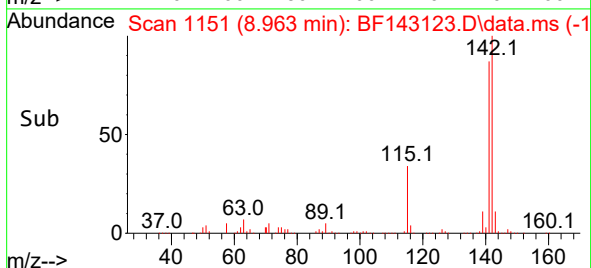
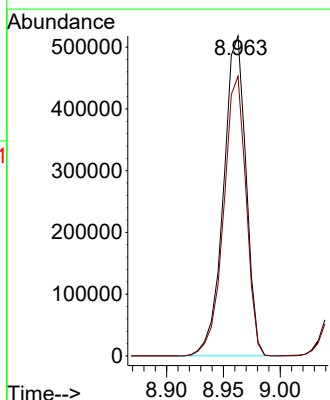
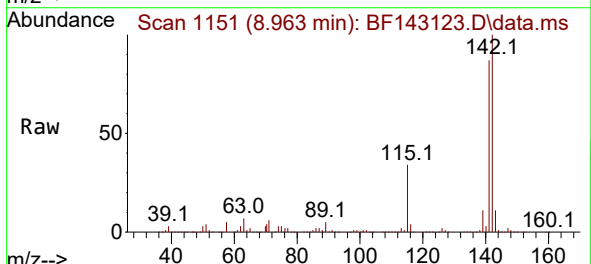
Manual Integrations  
APPROVED

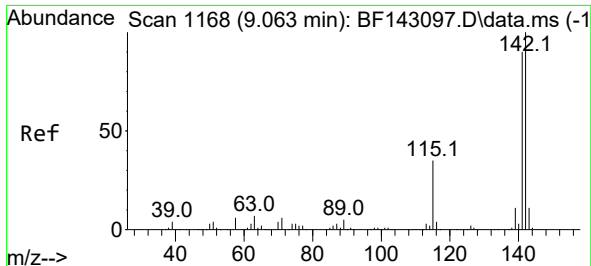
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#37  
2-Methylnaphthalene  
Concen: 40.837 ng  
RT: 8.963 min Scan# 1151  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Tgt Ion:142 Resp: 713317  
Ion Ratio Lower Upper  
142 100  
141 87.4 70.2 105.2





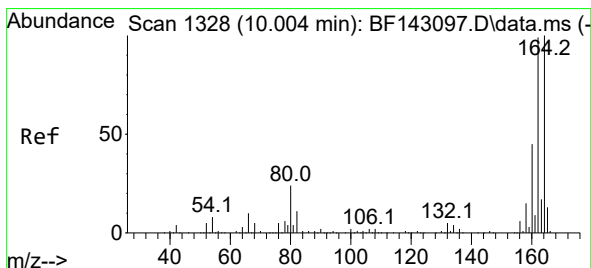
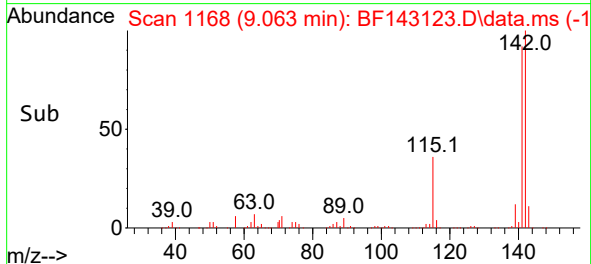
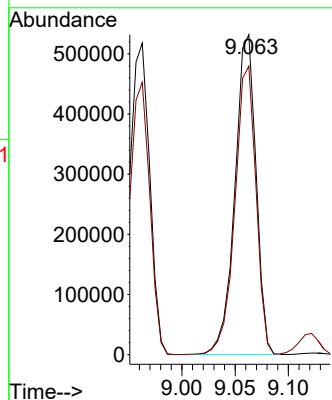
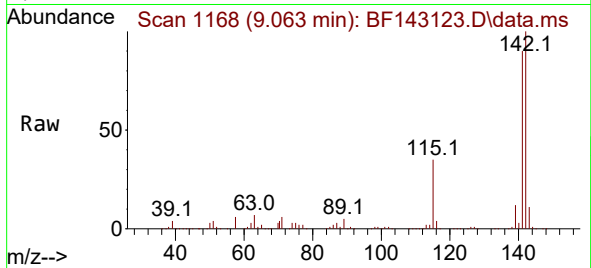
#38  
1-Methylnaphthalene  
Concen: 40.624 ng  
RT: 9.063 min Scan# 1168  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD

Tgt Ion:142 Resp: 735969  
Ion Ratio Lower Upper  
142 100  
141 90.2 72.2 108.4

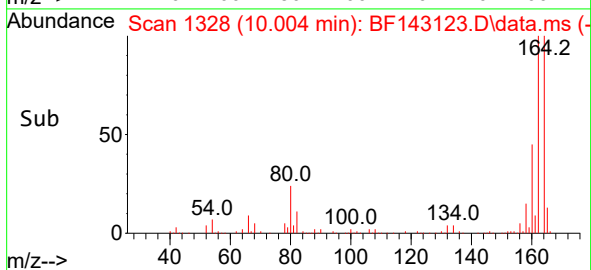
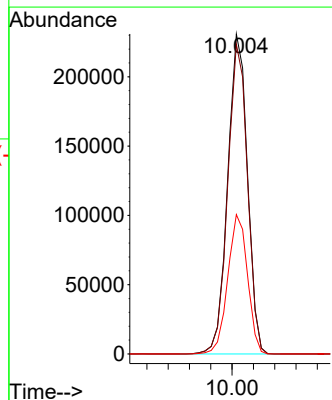
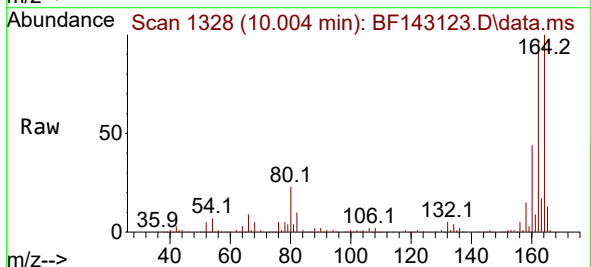
Manual Integrations  
APPROVED

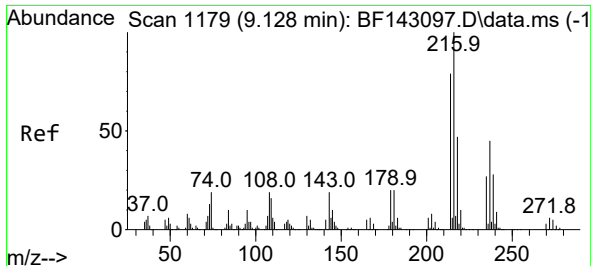
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.004 min Scan# 1328  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

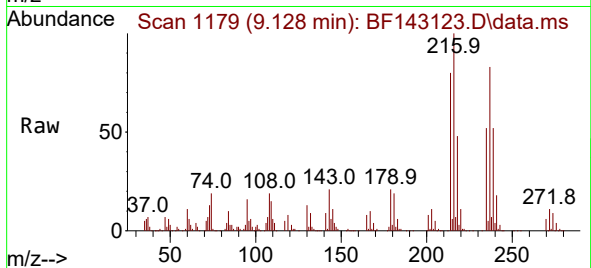
Tgt Ion:164 Resp: 296871  
Ion Ratio Lower Upper  
164 100  
162 96.8 79.0 118.6  
160 43.5 35.8 53.6





#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 39.964 ng  
RT: 9.128 min Scan# 1179  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

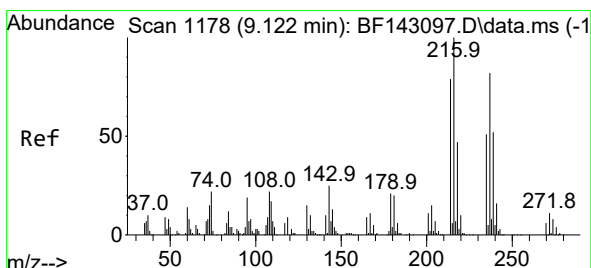
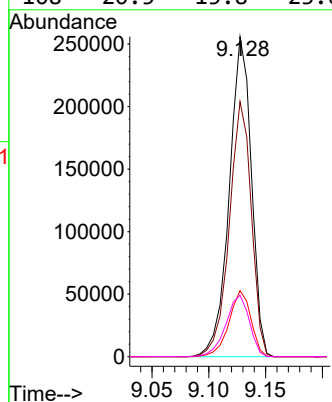
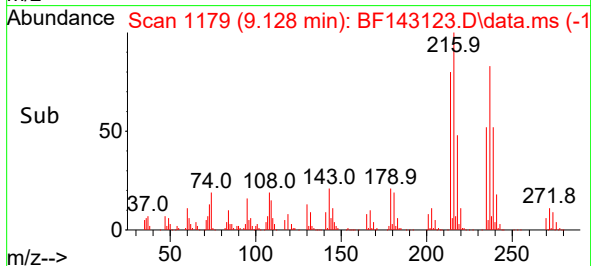
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



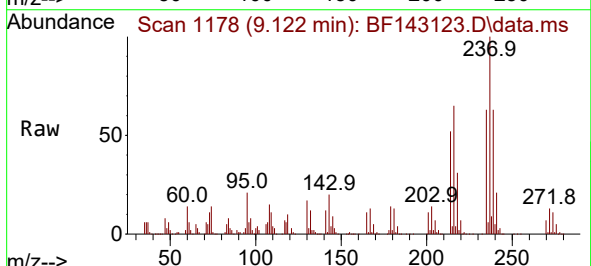
Tgt Ion:216 Resp: 34575  
Ion Ratio Lower Upper  
216 100  
214 79.3 62.6 94.0  
179 20.5 16.2 24.2  
108 20.5 15.8 23.6

Manual Integrations  
APPROVED

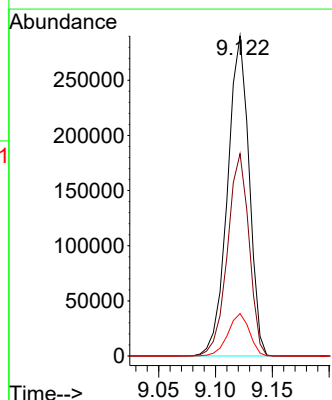
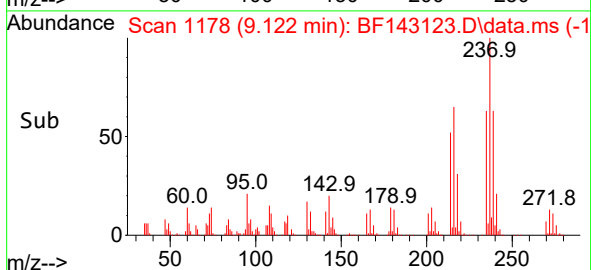
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

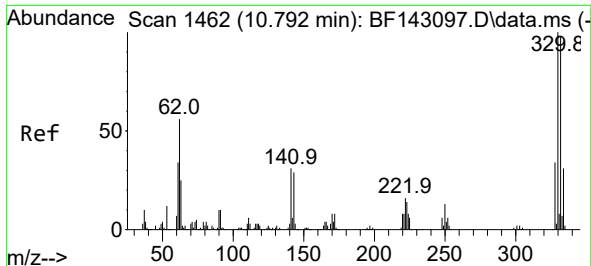


#41  
Hexachlorocyclopentadiene  
Concen: 79.887 ng  
RT: 9.122 min Scan# 1178  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



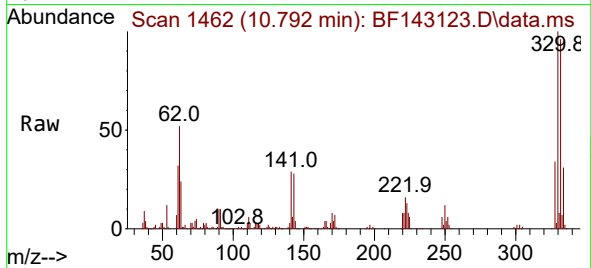
Tgt Ion:237 Resp: 383185  
Ion Ratio Lower Upper  
237 100  
235 63.2 41.6 81.6  
272 13.3 0.0 32.9





#42  
2,4,6-Tribromophenol  
Concen: 126.918 ng  
RT: 10.792 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

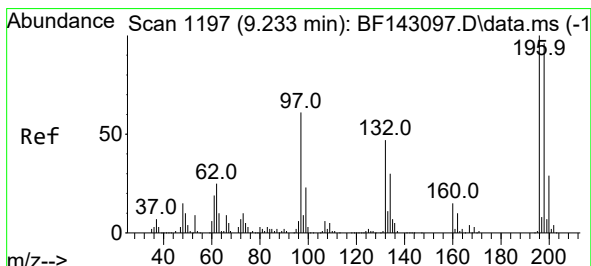
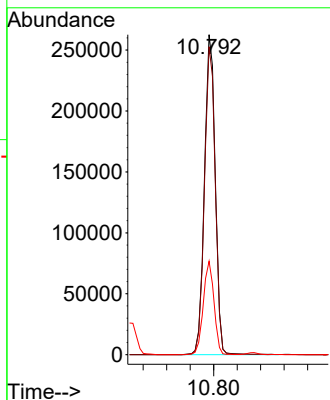
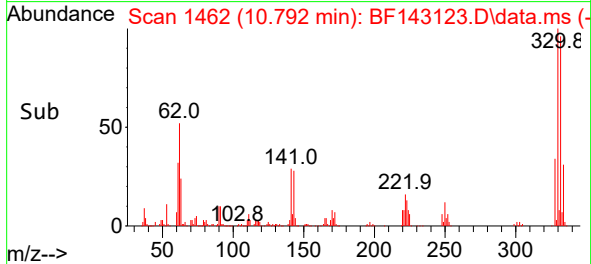
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



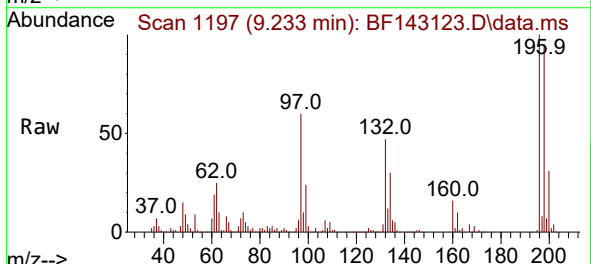
Tgt Ion:330 Resp: 335959  
Ion Ratio Lower Upper  
330 100  
332 96.3 77.9 116.9  
141 29.0 25.9 38.9

Manual Integrations  
APPROVED

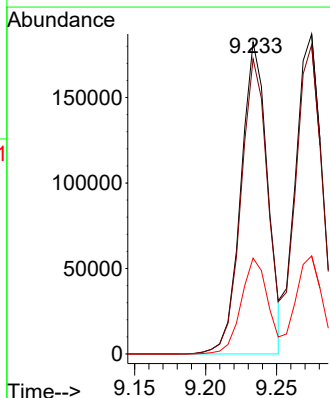
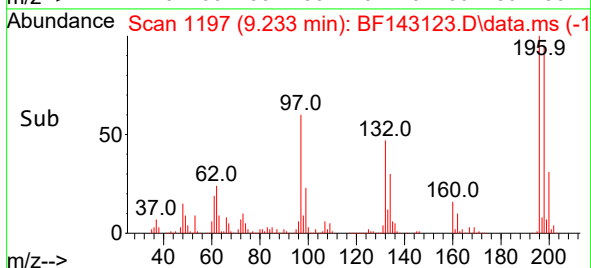
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

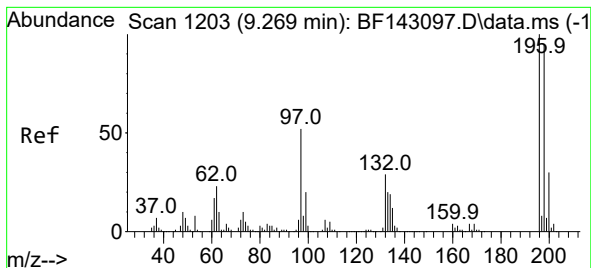


#43  
2,4,6-Trichlorophenol  
Concen: 44.192 ng  
RT: 9.233 min Scan# 1197  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



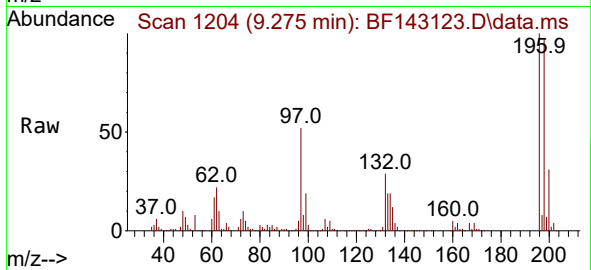
Tgt Ion:196 Resp: 237559  
Ion Ratio Lower Upper  
196 100  
198 94.6 76.9 115.3  
200 30.7 23.5 35.3





#44  
2,4,5-Trichlorophenol  
Concen: 43.128 ng  
RT: 9.275 min Scan# 1204  
Delta R.T. 0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

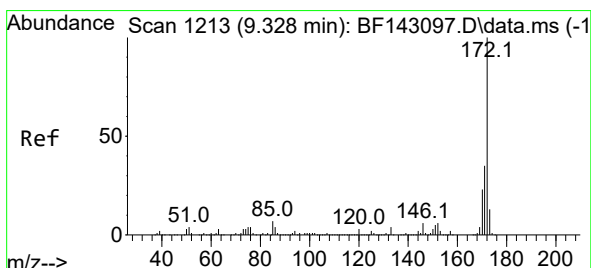
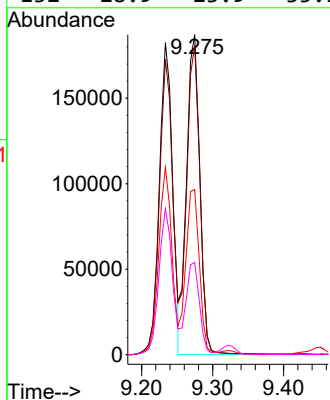
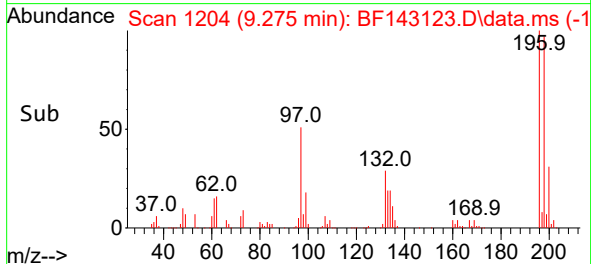
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



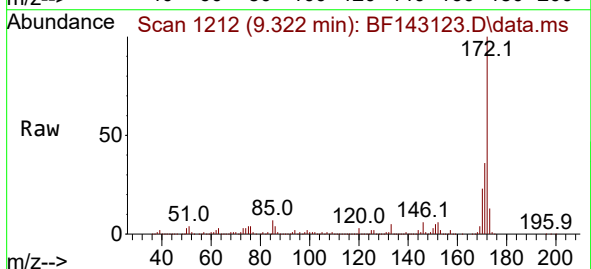
Tgt Ion:196 Resp: 243090  
Ion Ratio Lower Upper  
196 100  
198 96.6 76.4 114.6  
97 51.6 42.4 63.6  
132 28.9 23.9 35.9

Manual Integrations  
APPROVED

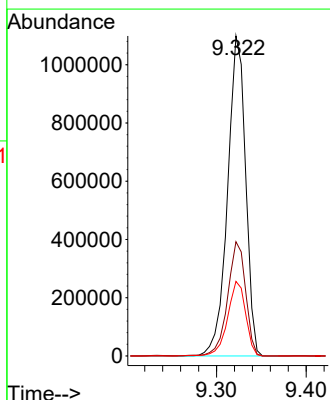
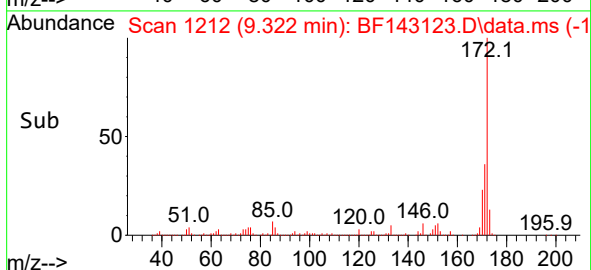
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

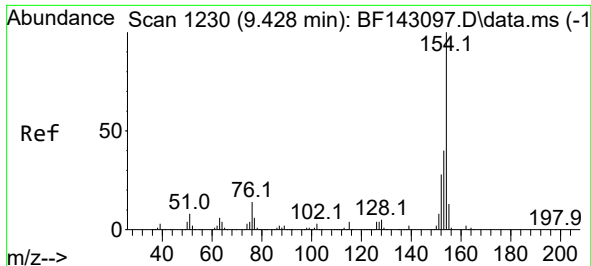


#45  
2-Fluorobiphenyl  
Concen: 68.578 ng  
RT: 9.322 min Scan# 1212  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



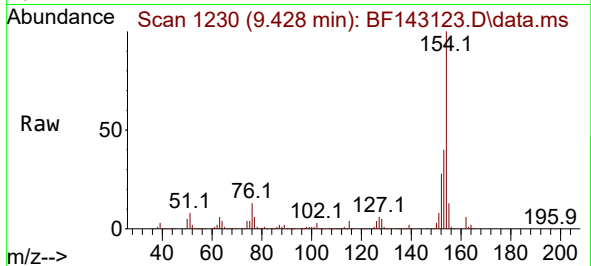
Tgt Ion:172 Resp: 1531577  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.2 42.4  
170 23.3 18.6 28.0





#46  
1,1'-Biphenyl  
Concen: 40.430 ng  
RT: 9.428 min Scan# 1230  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

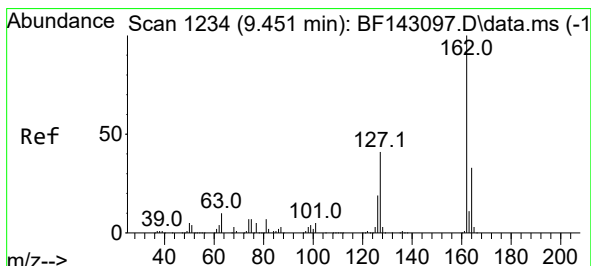
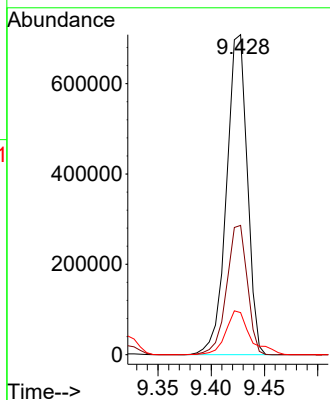
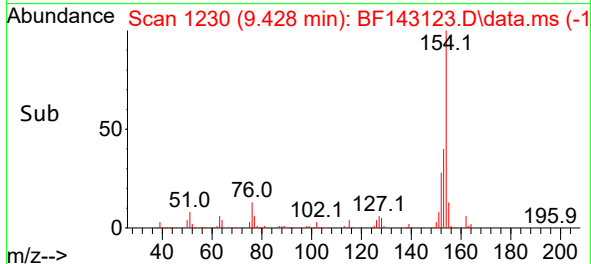
Instrument : BNA\_F  
ClientSampleId : WC-SOIL-20250711MSD



Tgt Ion:154 Resp: 957169  
Ion Ratio Lower Upper  
154 100  
153 40.4 20.1 60.1  
76 13.1 0.0 33.7

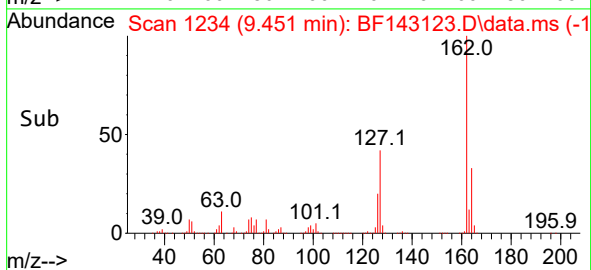
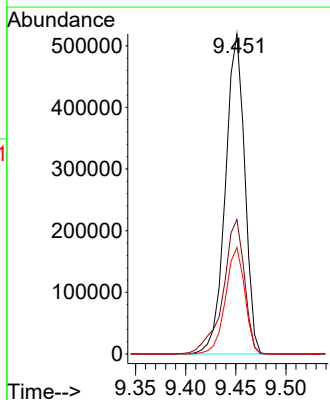
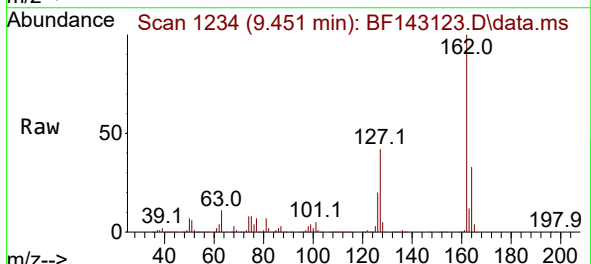
Manual Integrations  
APPROVED

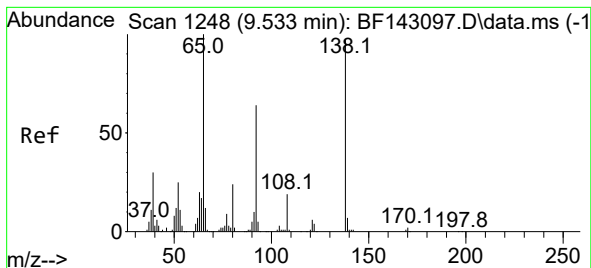
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#47  
2-Chloronaphthalene  
Concen: 39.937 ng  
RT: 9.451 min Scan# 1234  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Tgt Ion:162 Resp: 694587  
Ion Ratio Lower Upper  
162 100  
127 42.0 33.0 49.6  
164 33.3 26.1 39.1





#48

2-Nitroaniline

Concen: 44.159 ng

RT: 9.539 min Scan# 1248

Delta R.T. 0.006 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD

Tgt Ion: 65 Resp: 22789

Ion Ratio Lower Upper

65 100

92 66.1 51.3 76.9

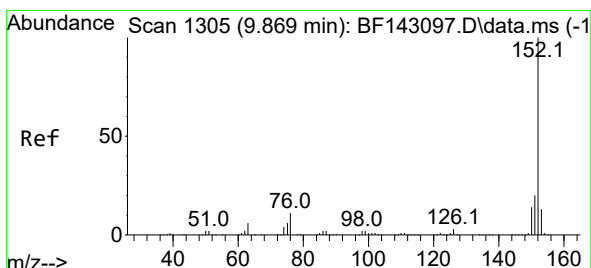
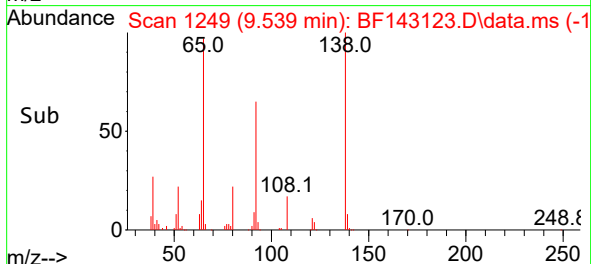
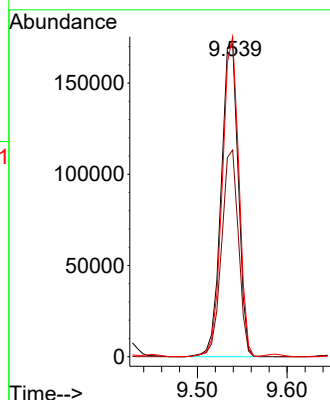
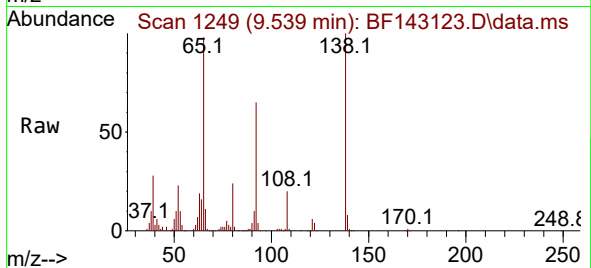
138 102.3 77.8 116.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#49

Acenaphthylene

Concen: 40.849 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

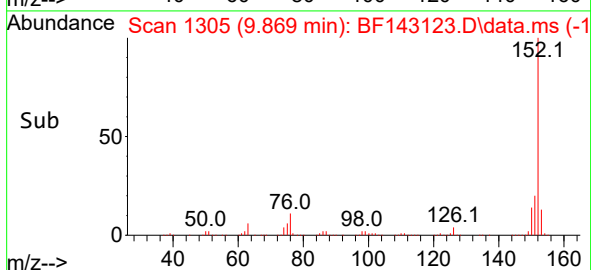
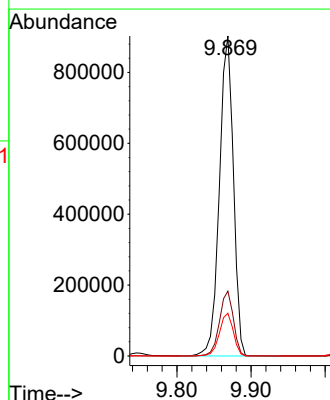
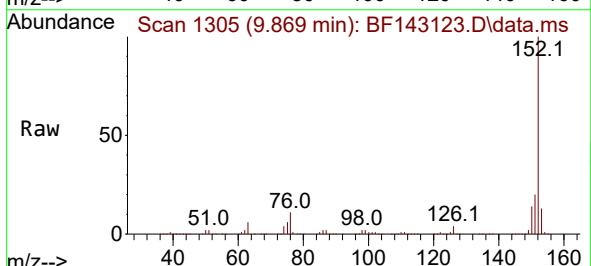
Tgt Ion:152 Resp: 1183859

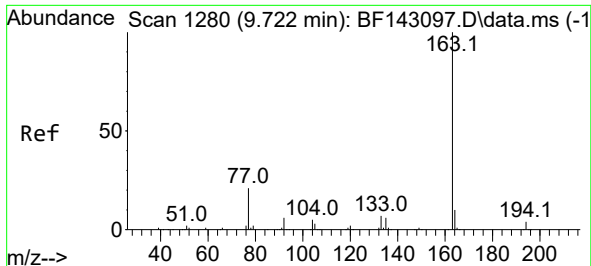
Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.8

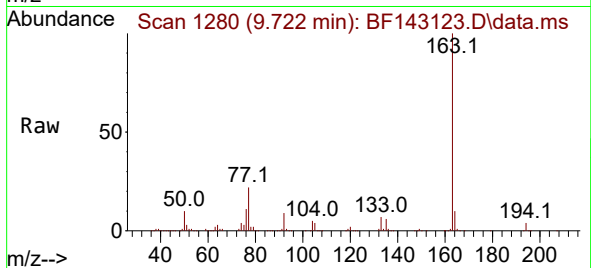
153 13.4 10.4 15.6





#50  
Dimethylphthalate  
Concen: 44.031 ng  
RT: 9.722 min Scan# 1280  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

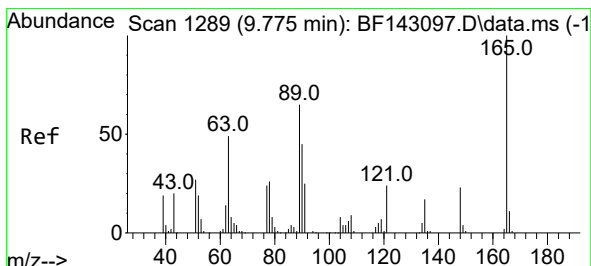
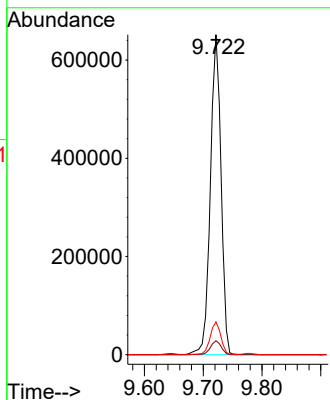
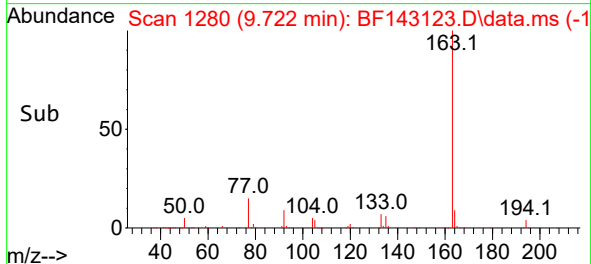
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:163 Resp: 82234  
Ion Ratio Lower Upper  
163 100  
194 4.4 3.4 5.2  
164 10.2 8.2 12.2

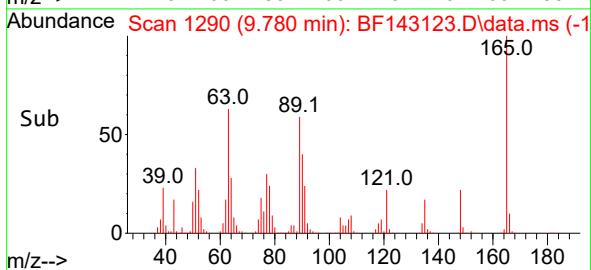
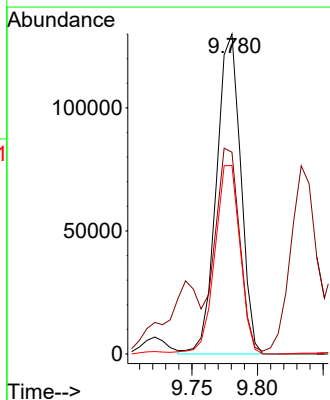
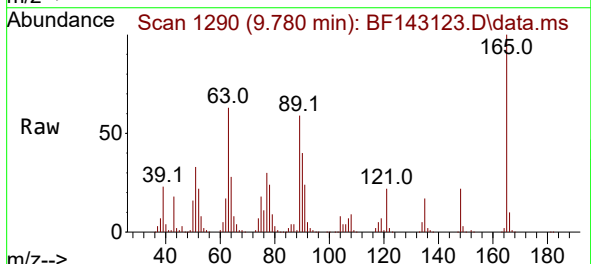
Manual Integrations  
APPROVED

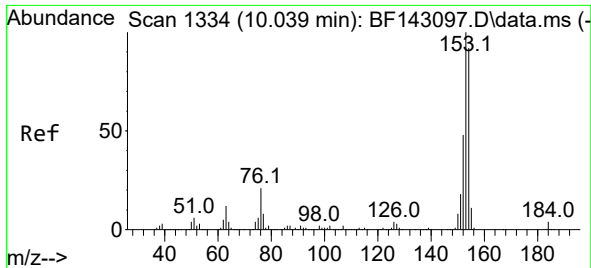
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#51  
2,6-Dinitrotoluene  
Concen: 45.539 ng  
RT: 9.780 min Scan# 1290  
Delta R.T. 0.005 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

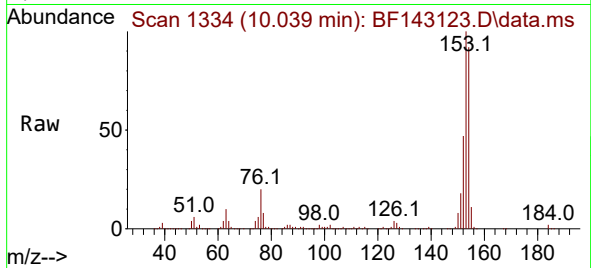
Tgt Ion:165 Resp: 167499  
Ion Ratio Lower Upper  
165 100  
63 63.1 57.4 86.0  
89 58.9 51.8 77.8





#52  
Acenaphthene  
Concen: 39.930 ng  
RT: 10.039 min Scan# 1334  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

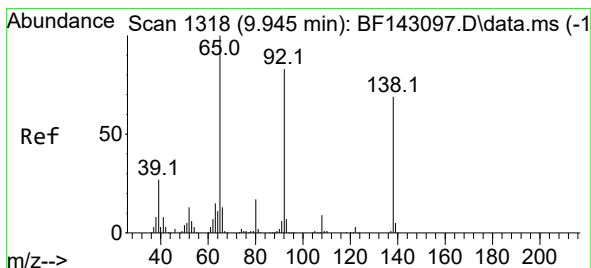
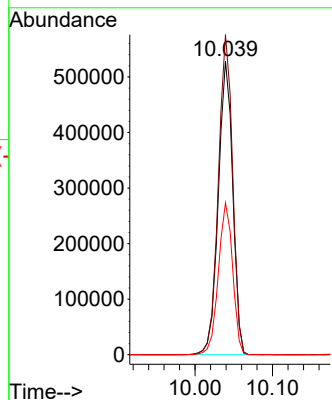
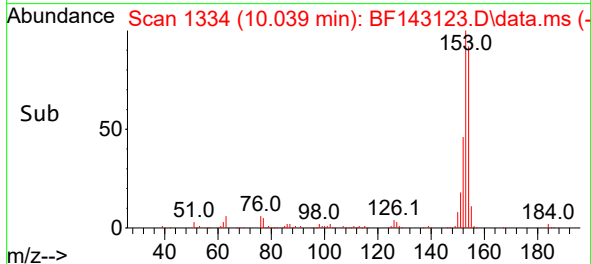
Instrument : BNA\_F  
ClientSampleId : WC-SOIL-20250711MSD



Tgt Ion:154 Resp: 682900  
Ion Ratio Lower Upper  
154 100  
153 109.0 86.7 130.1  
152 51.7 41.4 62.2

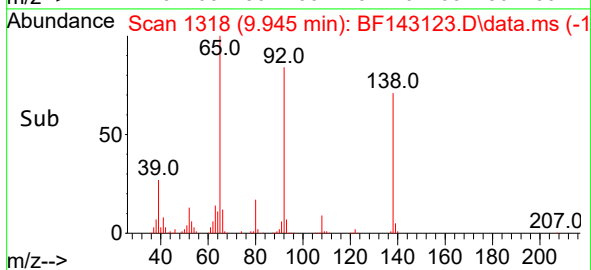
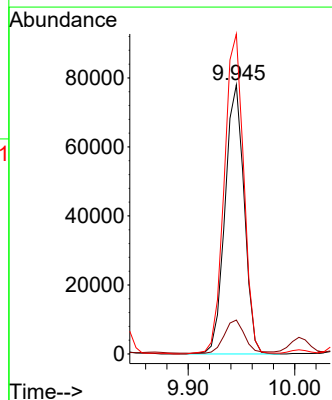
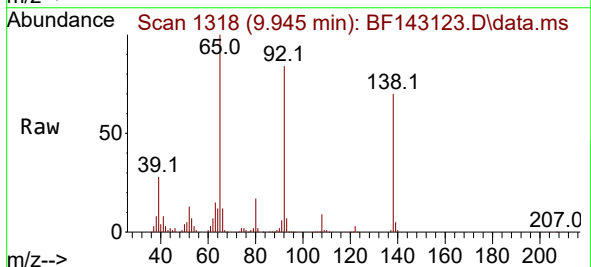
Manual Integrations  
APPROVED

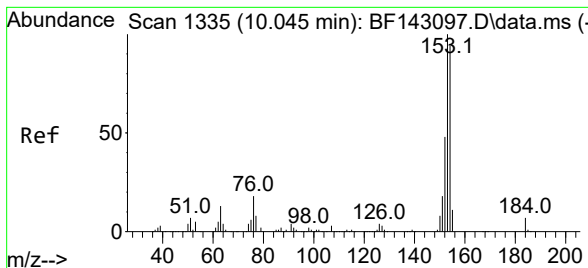
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#53  
3-Nitroaniline  
Concen: 24.084 ng  
RT: 9.945 min Scan# 1318  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

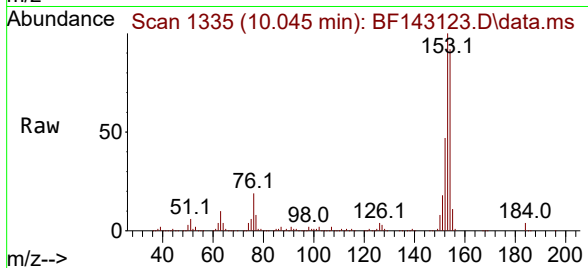
Tgt Ion:138 Resp: 97193  
Ion Ratio Lower Upper  
138 100  
108 12.6 10.1 15.1  
92 118.9 96.4 144.6





#54  
2,4-Dinitrophenol  
Concen: 24.116 ng  
RT: 10.045 min Scan# 1335  
Delta R.T. 0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

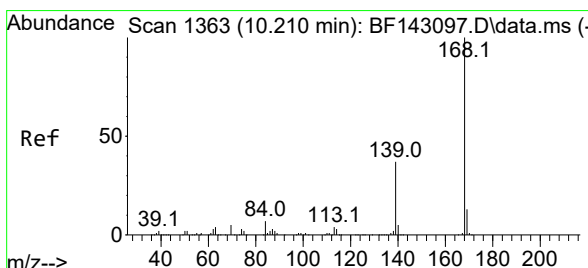
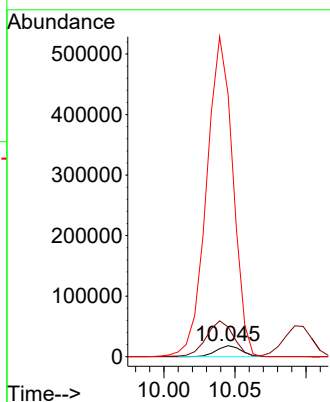
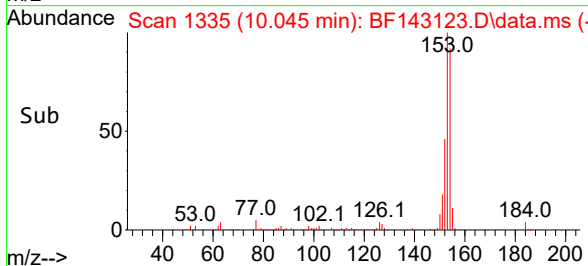
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



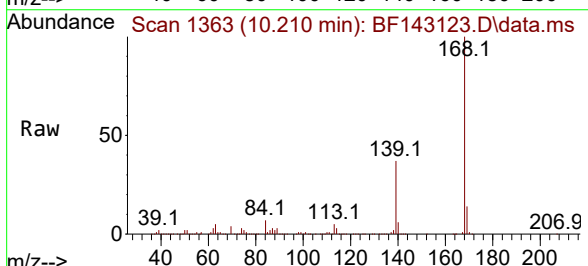
Tgt Ion:184 Resp: 22054  
Ion Ratio Lower Upper  
184 100  
63 271.8 149.3 223.9  
154 2390.5 1048.0 1572

Manual Integrations  
APPROVED

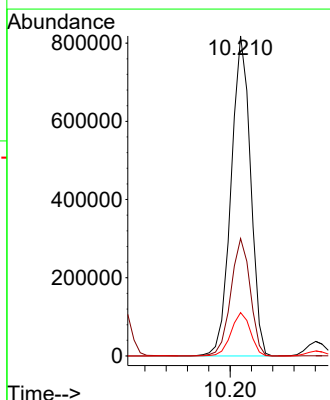
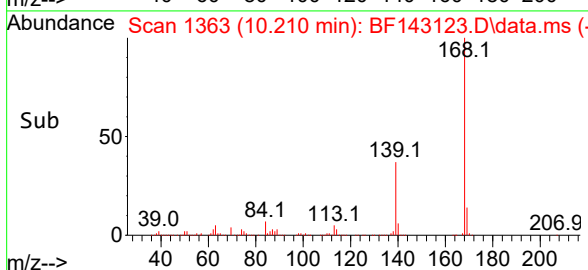
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

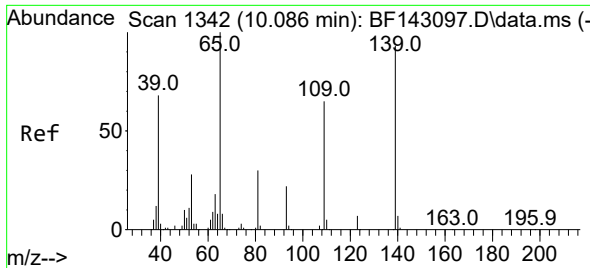


#55  
Dibenzofuran  
Concen: 40.822 ng  
RT: 10.210 min Scan# 1363  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



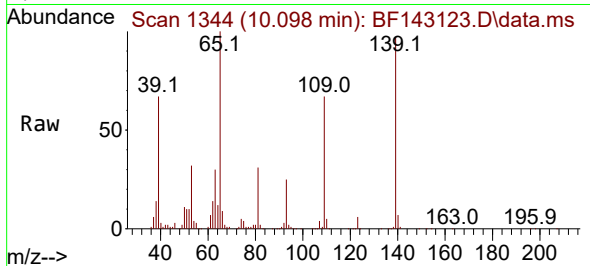
Tgt Ion:168 Resp: 1040598  
Ion Ratio Lower Upper  
168 100  
139 36.7 29.8 44.6  
169 13.6 10.8 16.2





#56  
4-Nitrophenol  
Concen: 70.644 ng  
RT: 10.098 min Scan# 1344  
Delta R.T. 0.012 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

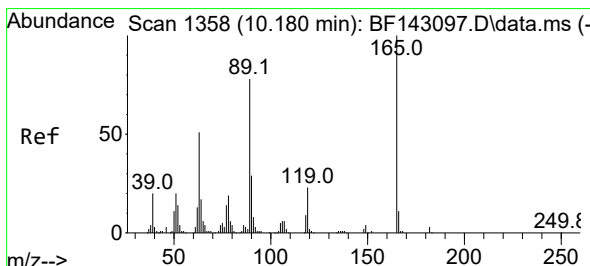
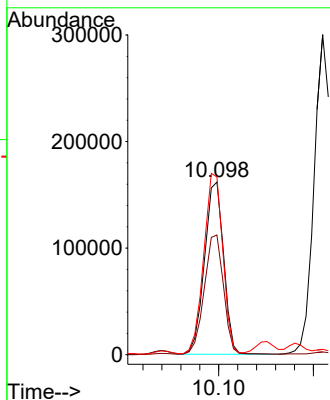
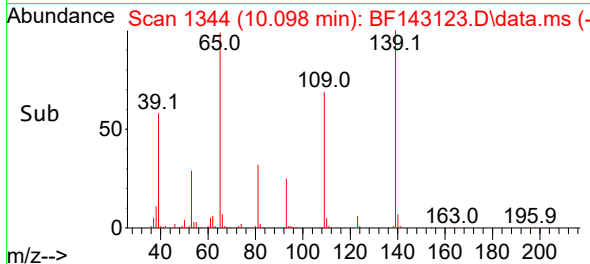
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:139 Resp: 226579  
Ion Ratio Lower Upper  
139 100  
109 69.3 49.4 89.4  
65 102.9 88.2 128.2

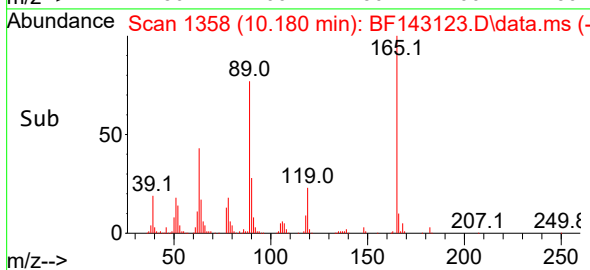
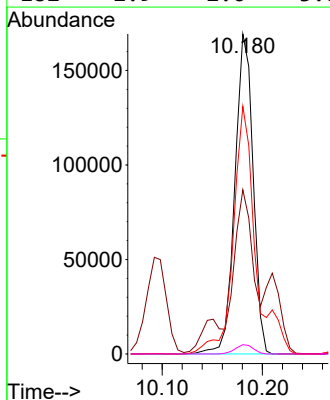
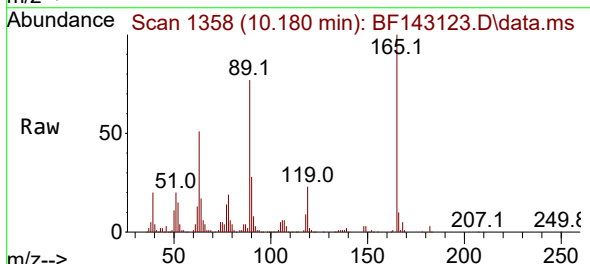
Manual Integrations  
APPROVED

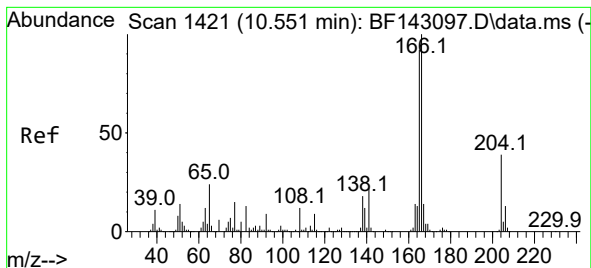
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#57  
2,4-Dinitrotoluene  
Concen: 46.591 ng  
RT: 10.180 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Tgt Ion:165 Resp: 214229  
Ion Ratio Lower Upper  
165 100  
63 51.3 40.6 61.0  
89 77.4 62.3 93.5  
182 2.9 2.6 3.8





#58

Fluorene

Concen: 40.011 ng

RT: 10.557 min Scan# 1421

Delta R.T. 0.006 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD

Tgt Ion:166 Resp: 764679

Ion Ratio Lower Upper

166 100

165 92.0 73.7 110.5

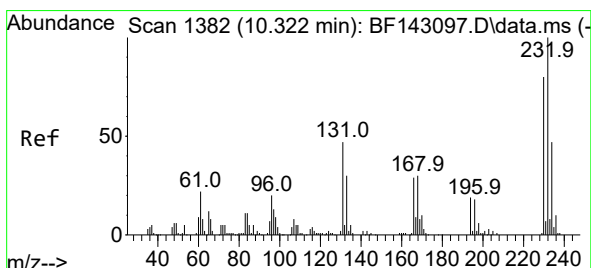
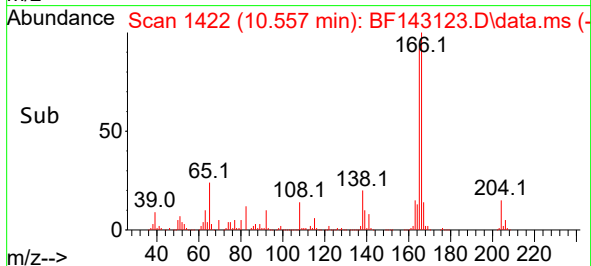
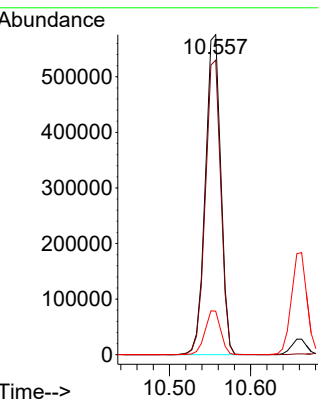
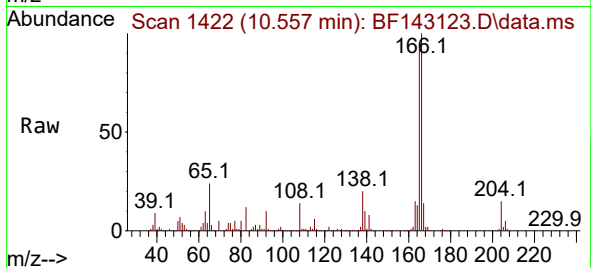
167 13.6 10.9 16.3

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#59

2,3,4,6-Tetrachlorophenol

Concen: 44.577 ng

RT: 10.327 min Scan# 1383

Delta R.T. 0.006 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

Tgt Ion:232 Resp: 199674

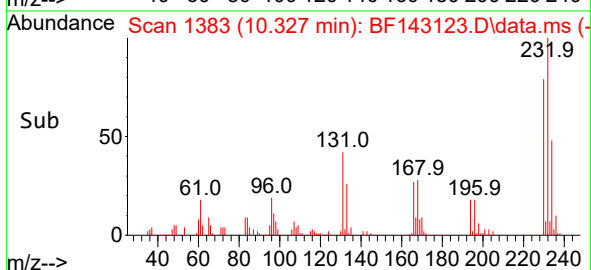
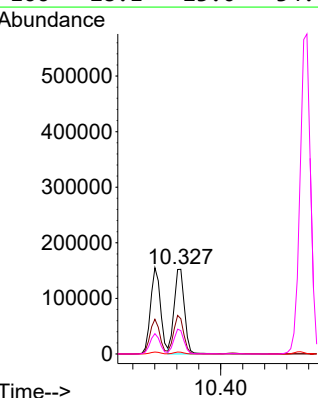
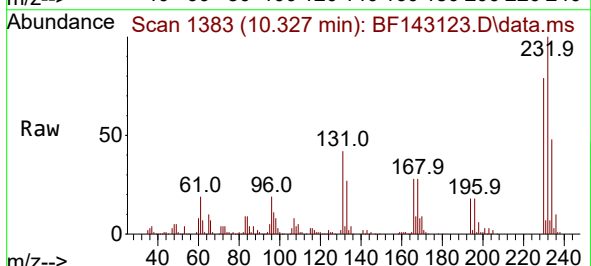
Ion Ratio Lower Upper

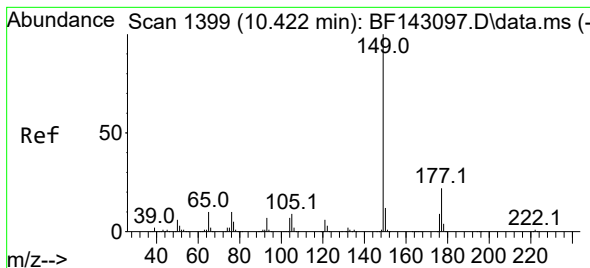
232 100

131 43.9 36.9 55.3

130 2.1 1.8 2.8

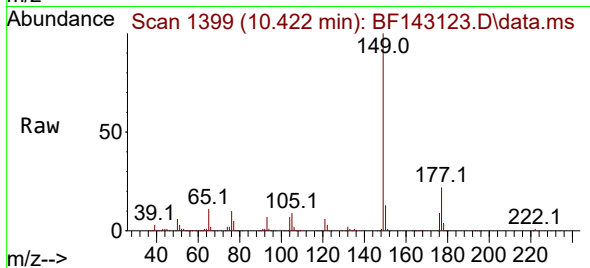
166 28.1 23.0 34.6





#60  
Diethylphthalate  
Concen: 42.818 ng  
RT: 10.422 min Scan# 1399  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

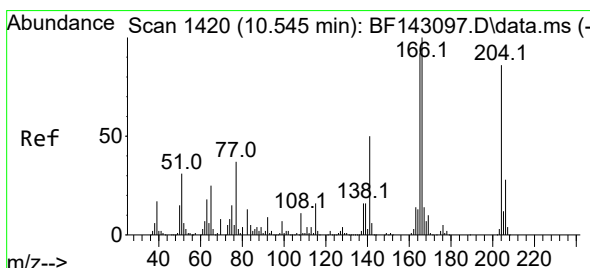
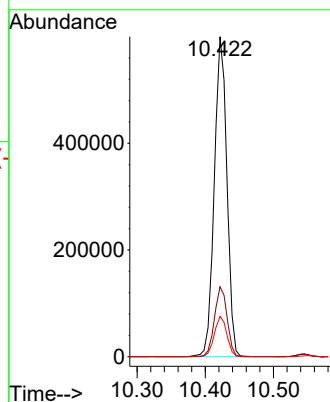
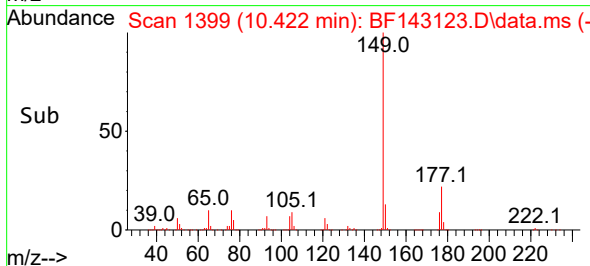
Instrument : BNA\_F  
ClientSampleId : WC-SOIL-20250711MSD



Tgt Ion:149 Resp: 771529  
Ion Ratio Lower Upper  
149 100  
177 21.9 17.3 25.9  
150 12.6 9.9 14.9

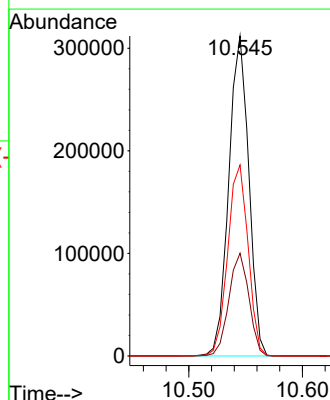
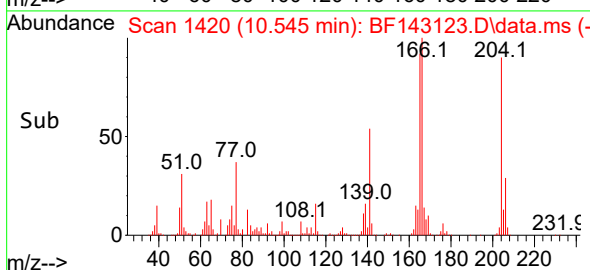
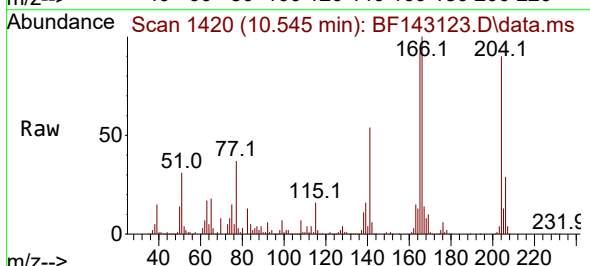
Manual Integrations  
APPROVED

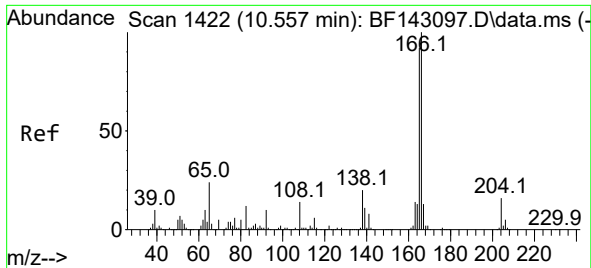
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#61  
4-Chlorophenyl-phenylether  
Concen: 41.698 ng  
RT: 10.545 min Scan# 1420  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

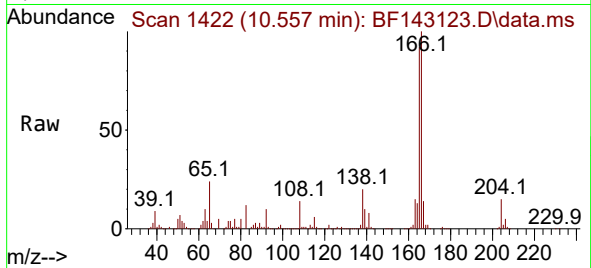
Tgt Ion:204 Resp: 381957  
Ion Ratio Lower Upper  
204 100  
206 32.1 25.8 38.6  
141 59.7 46.8 70.2





#62  
4-Nitroaniline  
Concen: 43.324 ng  
RT: 10.557 min Scan# 1422  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

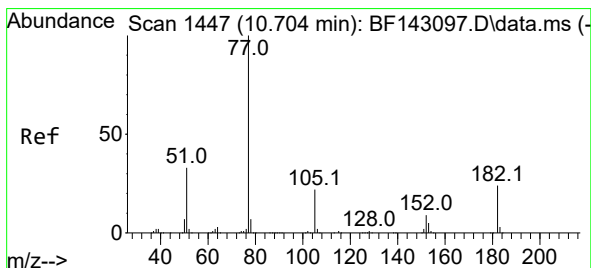
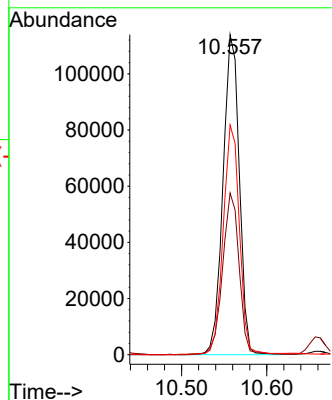
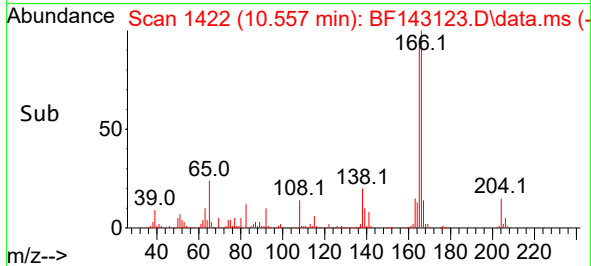
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:138 Resp: 152045  
Ion Ratio Lower Upper  
138 100  
92 50.5 30.4 70.4  
108 71.7 49.5 89.5

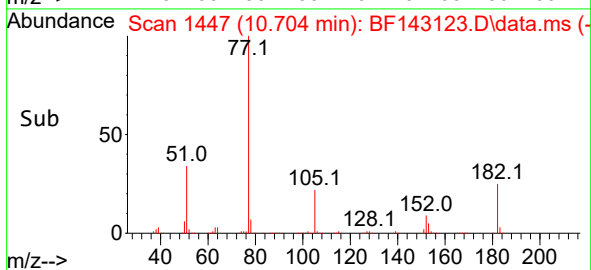
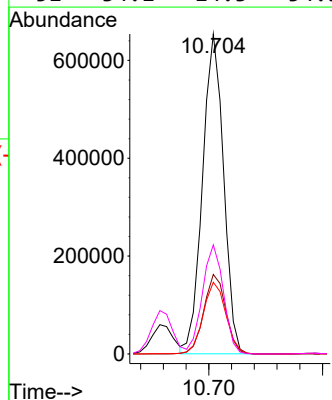
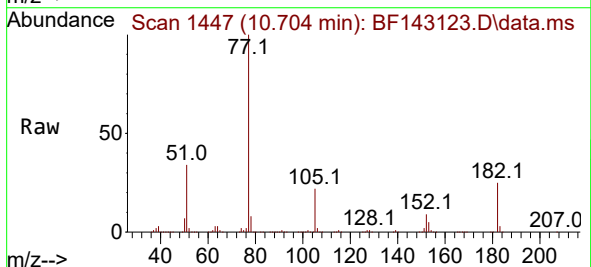
Manual Integrations  
APPROVED

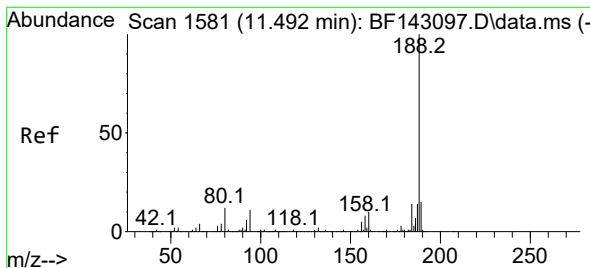
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#63  
Azobenzene  
Concen: 42.203 ng  
RT: 10.704 min Scan# 1447  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

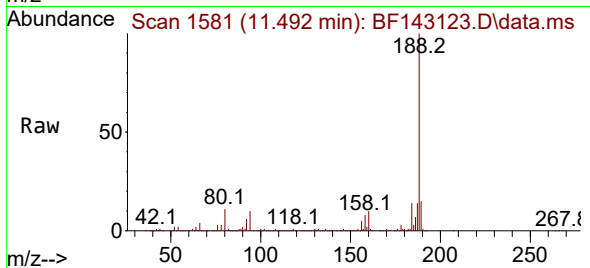
Tgt Ion: 77 Resp: 841015  
Ion Ratio Lower Upper  
77 100  
182 24.8 4.0 44.0  
105 22.4 1.4 41.4  
51 34.1 14.3 54.3





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.492 min Scan# 1581  
Delta R.T. 0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

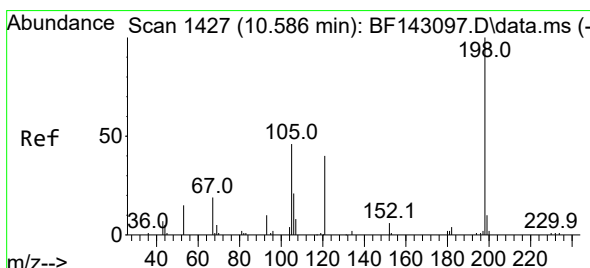
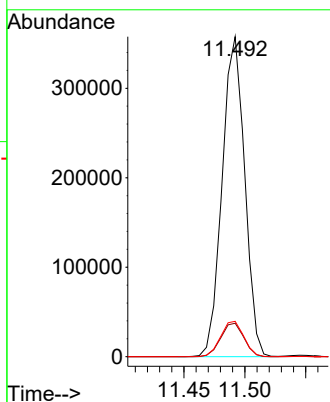
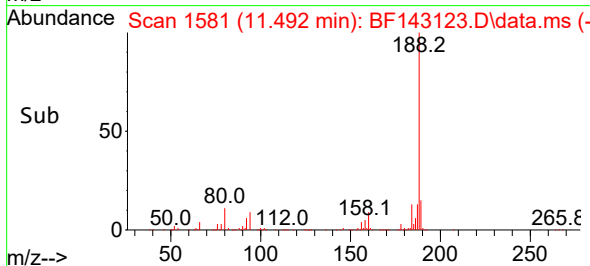
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:188 Resp: 461800  
Ion Ratio Lower Upper  
188 100  
94 10.4 8.6 13.0  
80 11.0 9.3 13.9

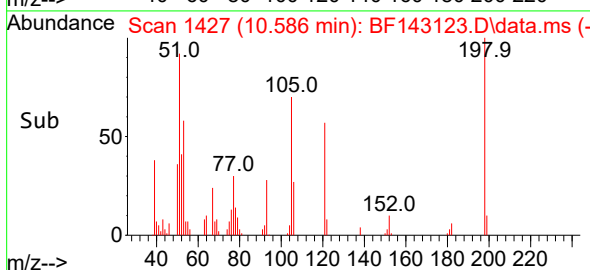
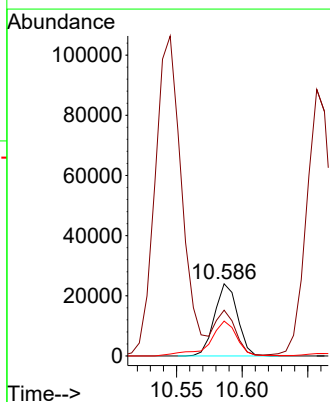
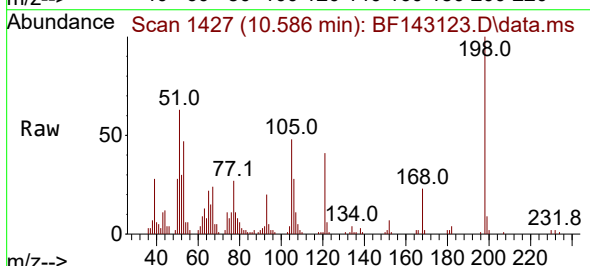
Manual Integrations  
APPROVED

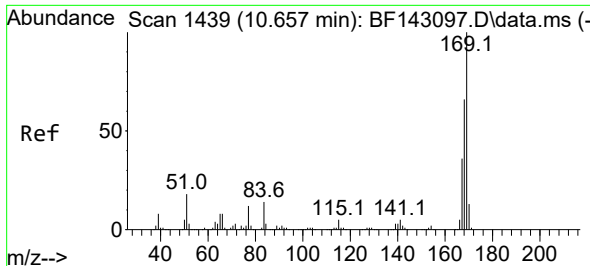
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#65  
4,6-Dinitro-2-methylphenol  
Concen: 22.144 ng  
RT: 10.586 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

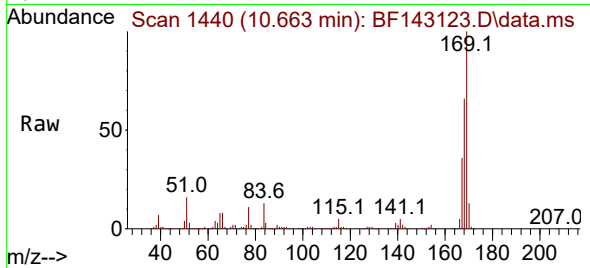
Tgt Ion:198 Resp: 29165  
Ion Ratio Lower Upper  
198 100  
51 63.4 44.6 84.6  
105 48.2 29.3 69.3





#66  
n-Nitrosodiphenylamine  
Concen: 42.051 ng  
RT: 10.663 min Scan# 1439  
Delta R.T. 0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

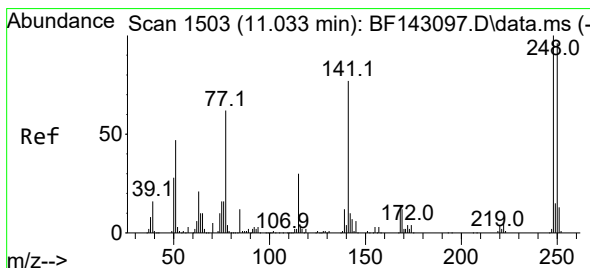
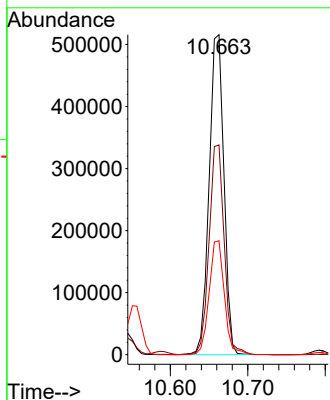
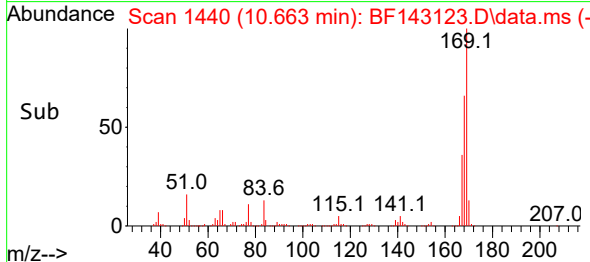
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:169 Resp: 682130  
Ion Ratio Lower Upper  
169 100  
168 65.6 53.0 79.6  
167 35.6 28.4 42.6

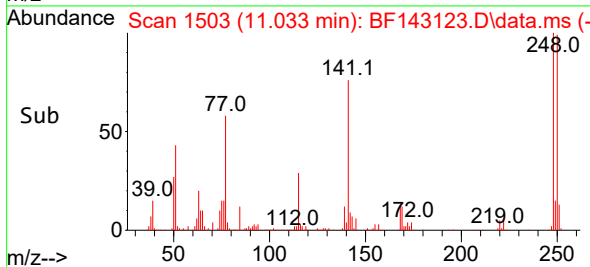
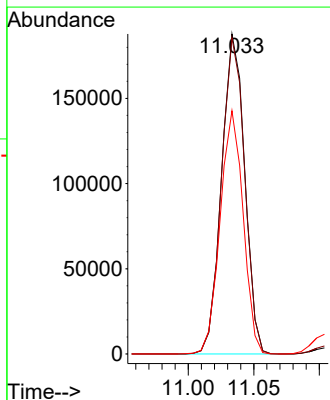
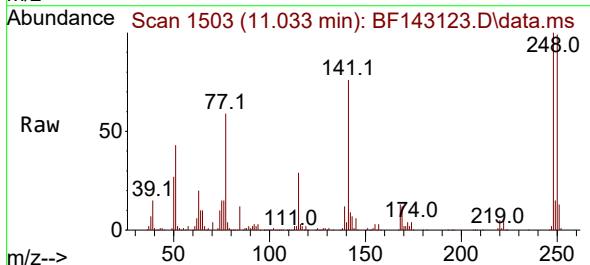
Manual Integrations  
APPROVED

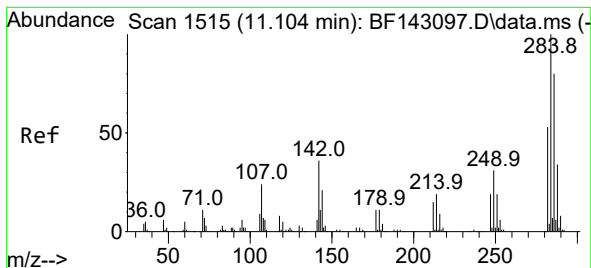
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#67  
4-Bromophenyl-phenylether  
Concen: 43.804 ng  
RT: 11.033 min Scan# 1503  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Tgt Ion:248 Resp: 230049  
Ion Ratio Lower Upper  
248 100  
250 98.8 76.7 115.1  
141 76.0 61.7 92.5





#68

Hexachlorobenzene

Concen: 43.638 ng

RT: 11.104 min Scan# 1515

Delta R.T. -0.000 min

Lab File: BF143123.D

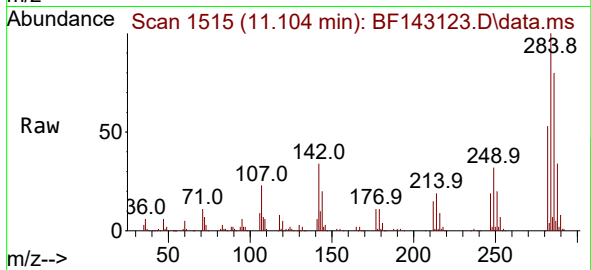
Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD



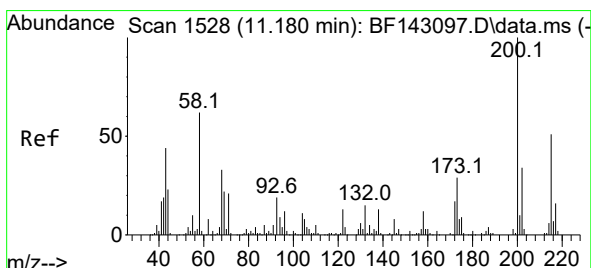
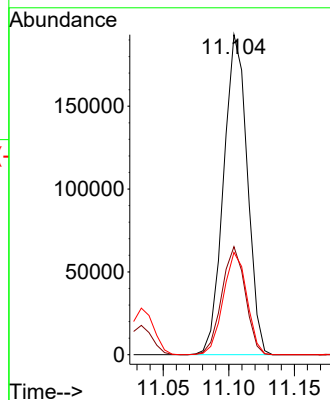
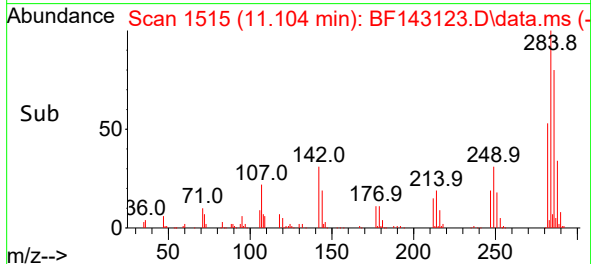
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:284 | Resp: | 243160    |
| Ion Ratio   | Lower | Upper     |
| 284         | 100   |           |
| 142         | 33.8  | 28.9 43.3 |
| 249         | 32.0  | 24.6 37.0 |

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#69

Atrazine

Concen: 46.405 ng

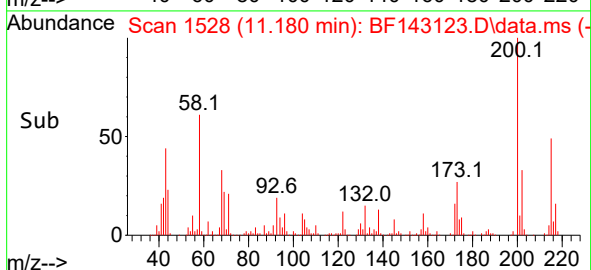
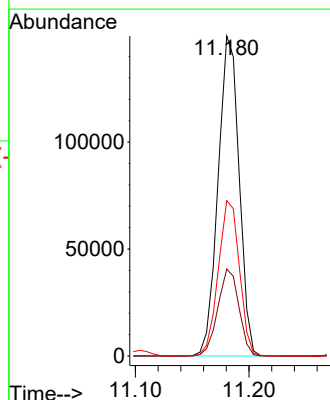
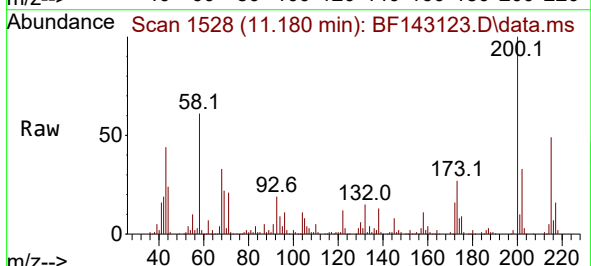
RT: 11.180 min Scan# 1528

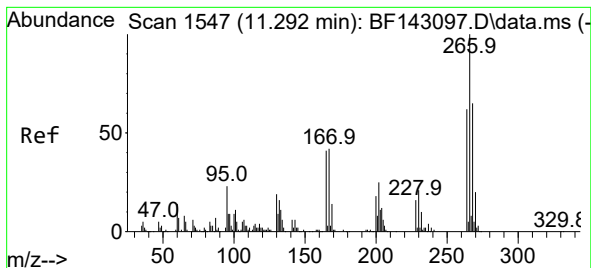
Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

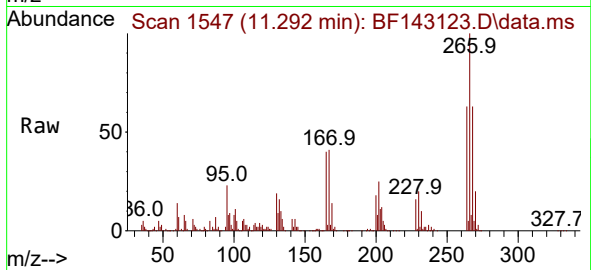
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:200 | Resp: | 192588    |
| Ion Ratio   | Lower | Upper     |
| 200         | 100   |           |
| 173         | 27.1  | 9.1 49.1  |
| 215         | 48.6  | 31.0 71.0 |





#70  
Pentachlorophenol  
Concen: 71.314 ng  
RT: 11.292 min Scan# 1547  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

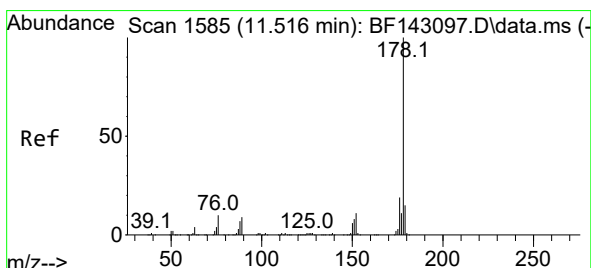
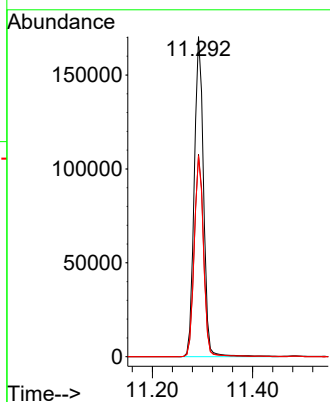
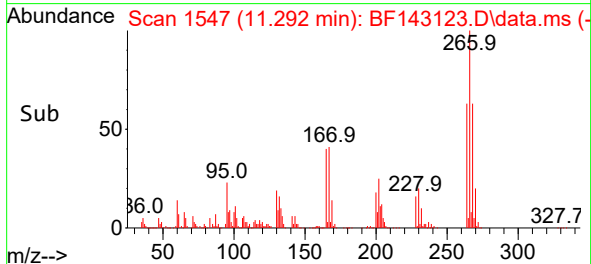
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:266 Resp: 21802  
Ion Ratio Lower Upper  
266 100  
268 63.2 51.8 77.6  
264 62.7 49.7 74.5

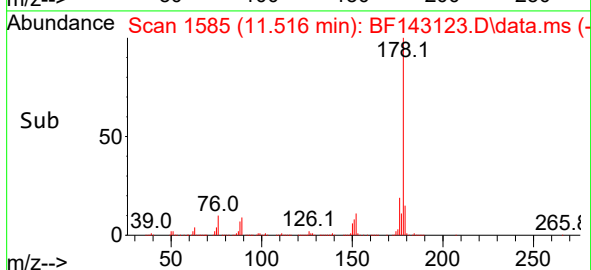
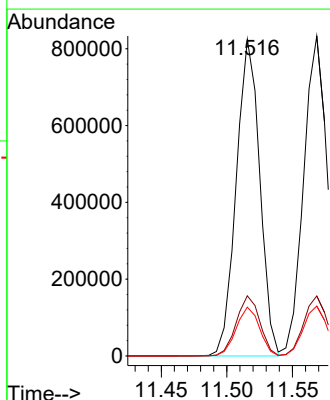
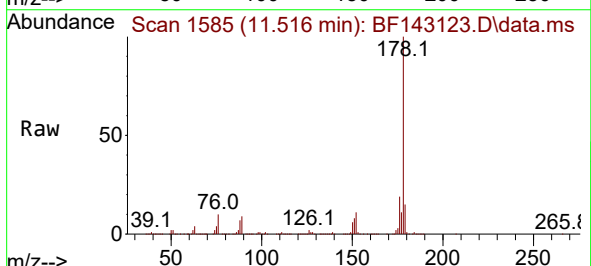
Manual Integrations  
APPROVED

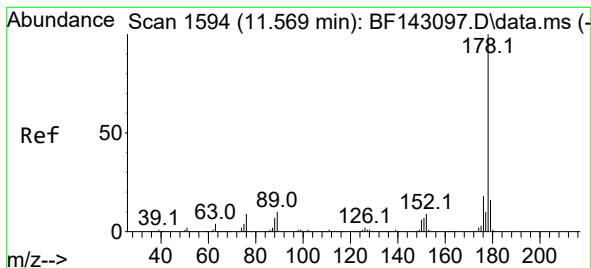
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#71  
Phenanthrene  
Concen: 41.274 ng  
RT: 11.516 min Scan# 1585  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

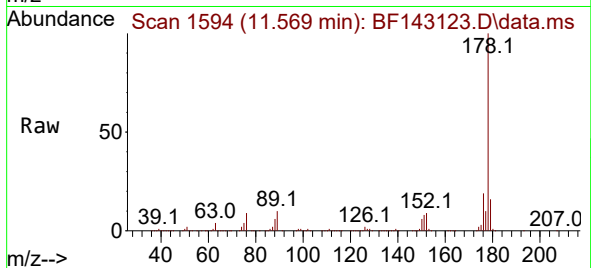
Tgt Ion:178 Resp: 1028670  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.1 22.7  
179 15.4 12.2 18.4





#72  
Anthracene  
Concen: 41.528 ng  
RT: 11.569 min Scan# 11594  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

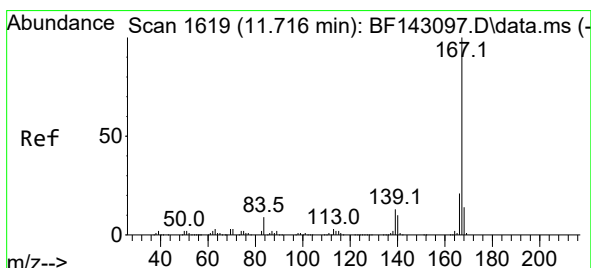
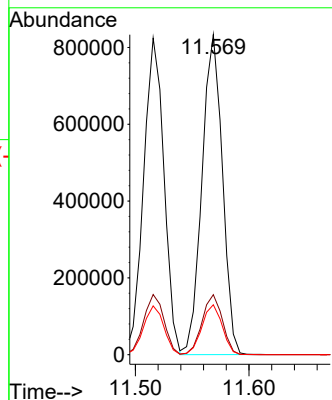
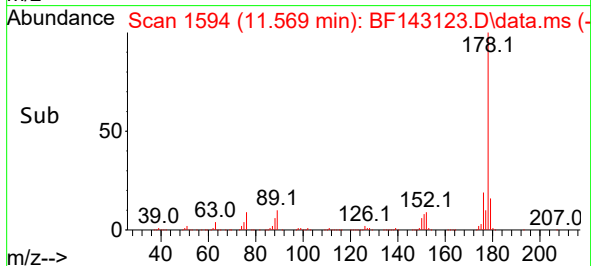
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



Tgt Ion:178 Resp: 1040808  
Ion Ratio Lower Upper  
178 100  
176 18.7 14.7 22.1  
179 15.6 12.4 18.6

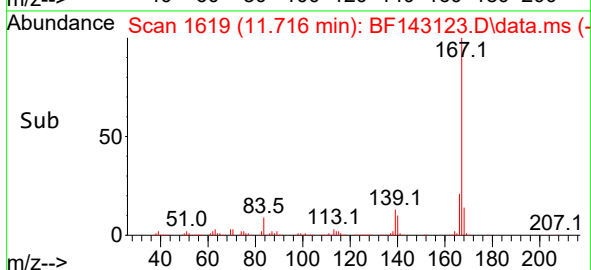
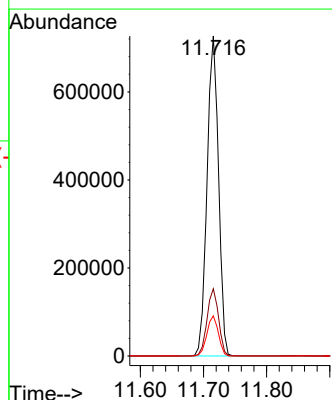
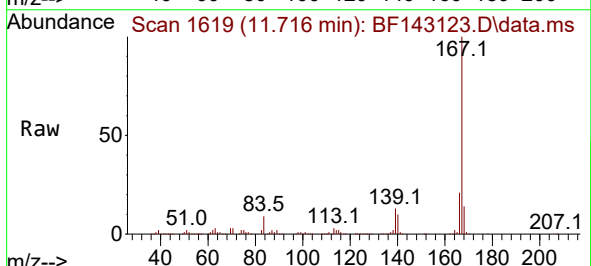
Manual Integrations  
APPROVED

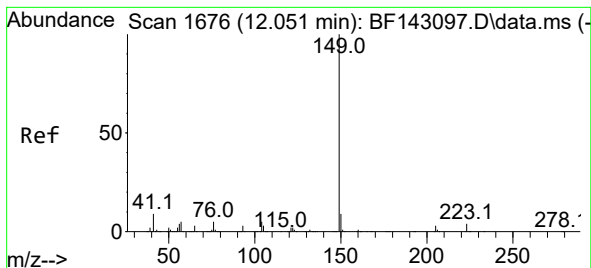
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#73  
Carbazole  
Concen: 40.894 ng  
RT: 11.716 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

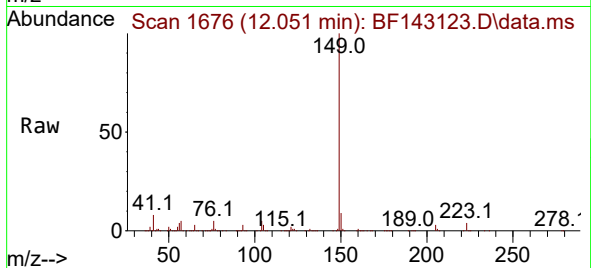
Tgt Ion:167 Resp: 918194  
Ion Ratio Lower Upper  
167 100  
166 21.0 17.0 25.4  
139 12.6 10.2 15.4





#74  
Di-n-butylphthalate  
Concen: 47.235 ng  
RT: 12.051 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

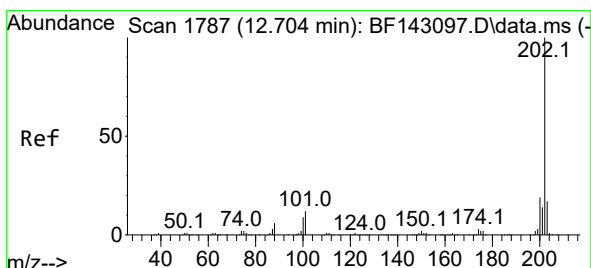
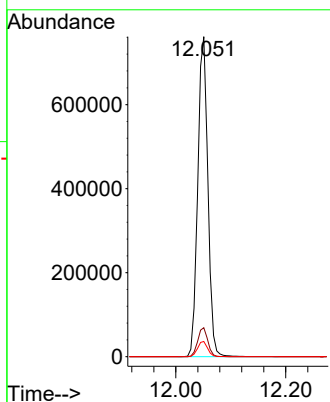
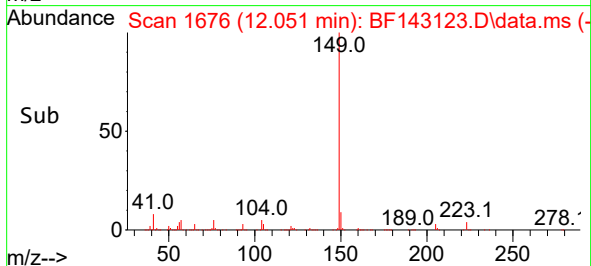
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



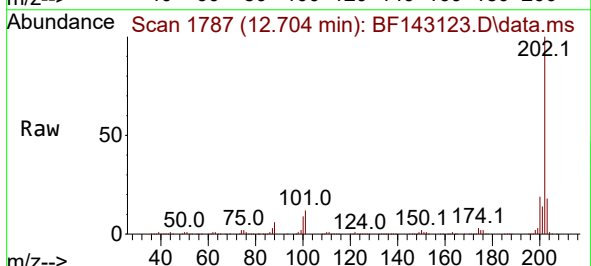
Tgt Ion:149 Resp: 97353  
Ion Ratio Lower Upper  
149 100  
150 9.0 7.3 10.9  
104 4.7 3.8 5.8

Manual Integrations  
APPROVED

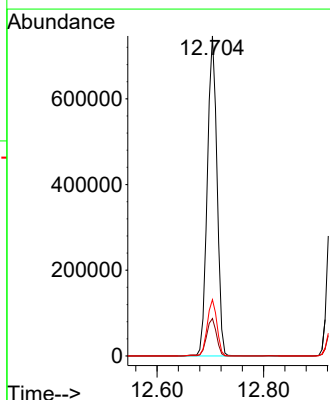
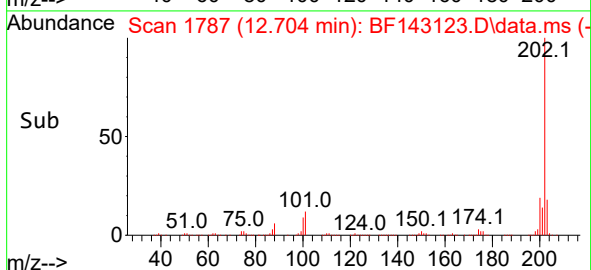
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

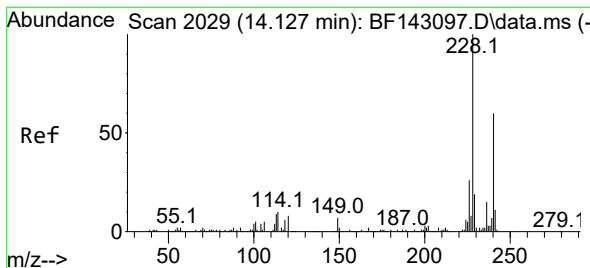


#75  
Fluoranthene  
Concen: 41.503 ng  
RT: 12.704 min Scan# 1787  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



Tgt Ion:202 Resp: 940517  
Ion Ratio Lower Upper  
202 100  
101 11.7 0.0 32.4  
203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.127 min Scan# 2029

Delta R.T. -0.000 min

Lab File: BF143123.D

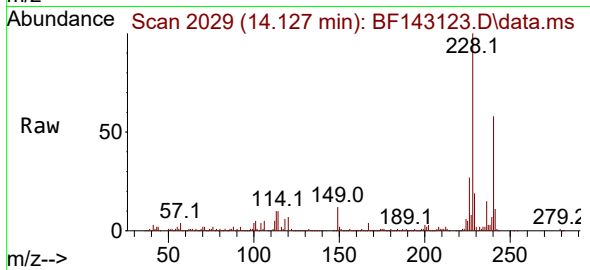
Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD



Tgt Ion:240 Resp: 242870

Ion Ratio Lower Upper

240 100

120 12.4 10.0 15.0

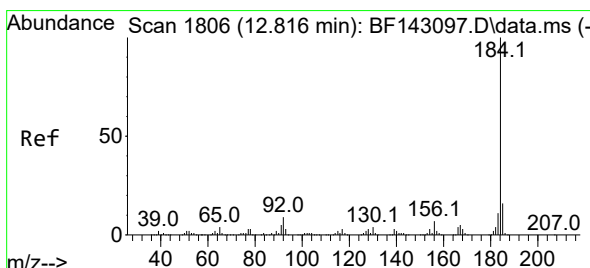
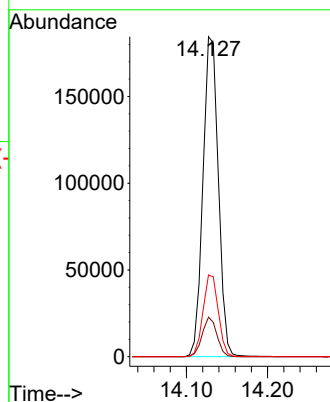
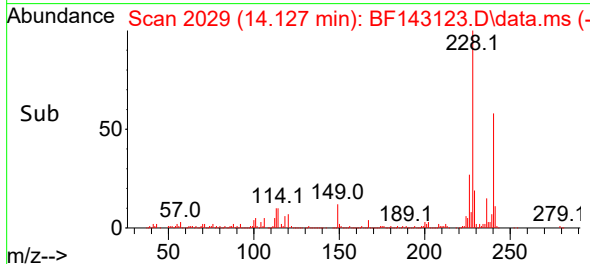
236 25.5 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#77

Benzidine

Concen: 16.165 ng

RT: 12.816 min Scan# 1806

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

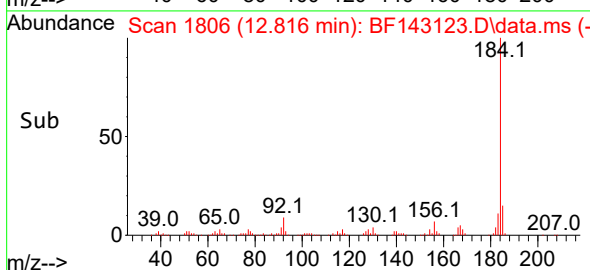
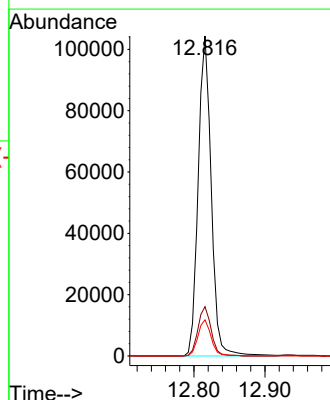
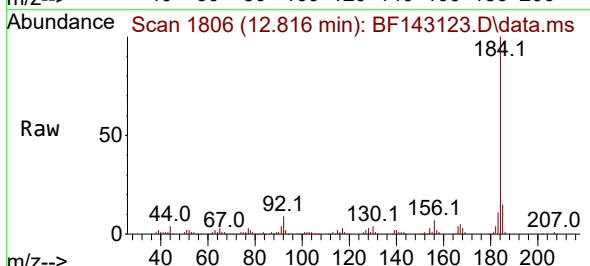
Tgt Ion:184 Resp: 133752

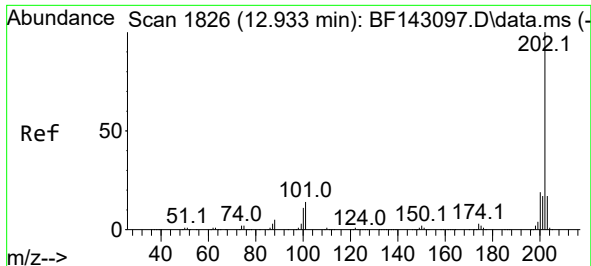
Ion Ratio Lower Upper

184 100

185 15.4 12.4 18.6

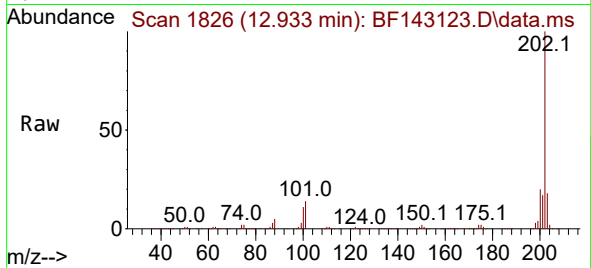
183 11.3 8.6 12.8





#78  
Pyrene  
Concen: 40.522 ng  
RT: 12.933 min Scan# 1826  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

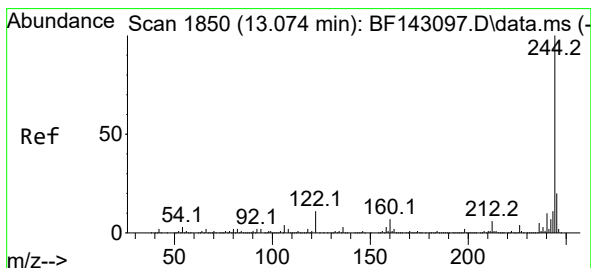
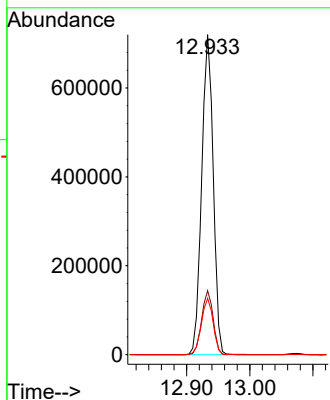
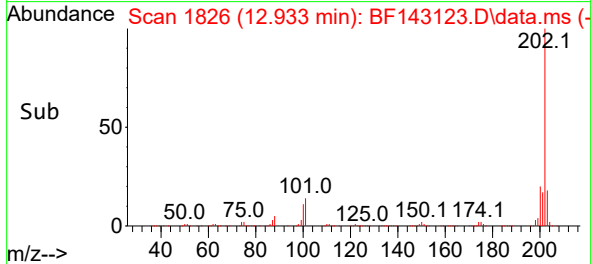
Instrument : BNA\_F  
ClientSampleId : WC-SOIL-20250711MSD



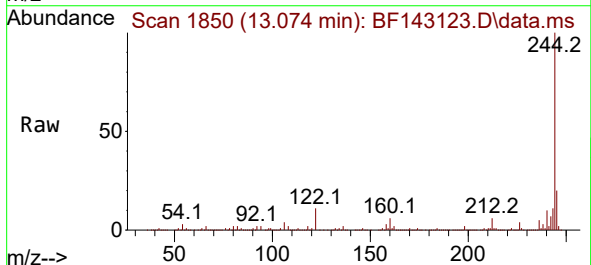
Tgt Ion:202 Resp: 913140  
Ion Ratio Lower Upper  
202 100  
200 20.0 15.5 23.3  
203 17.6 14.0 21.0

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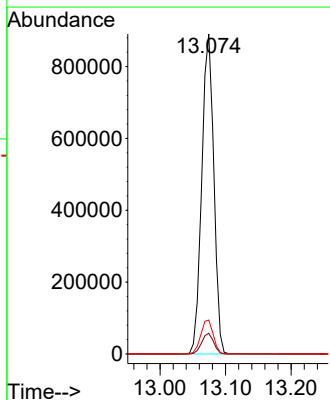
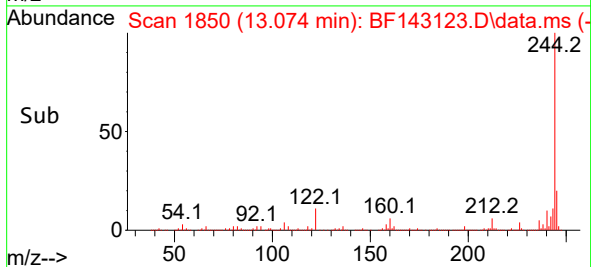
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

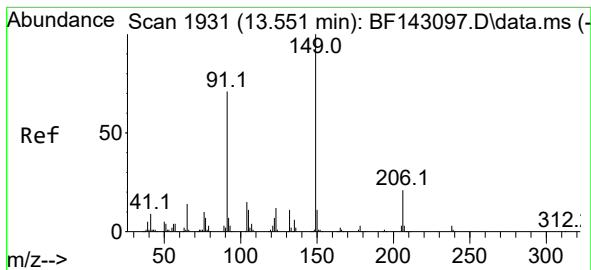


#79  
Terphenyl-d14  
Concen: 68.707 ng  
RT: 13.074 min Scan# 1850  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



Tgt Ion:244 Resp: 1141518  
Ion Ratio Lower Upper  
244 100  
212 6.4 5.2 7.8  
122 10.6 8.8 13.2





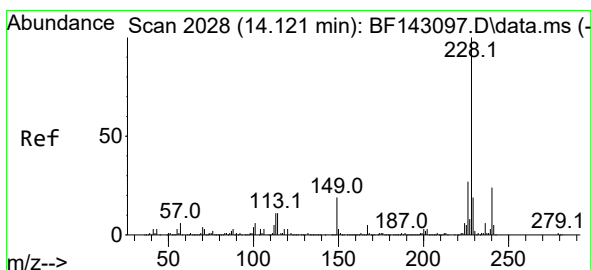
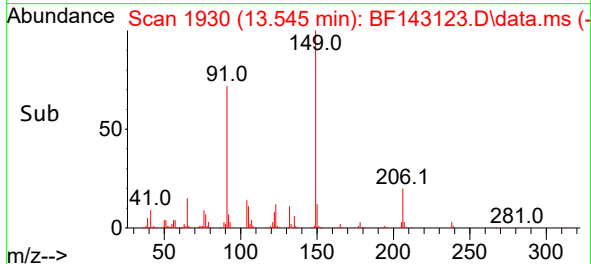
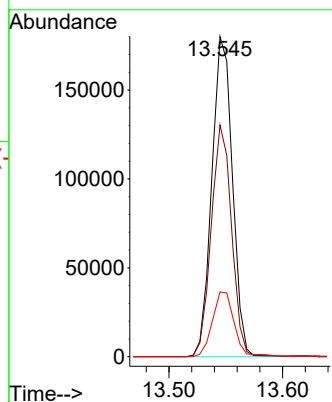
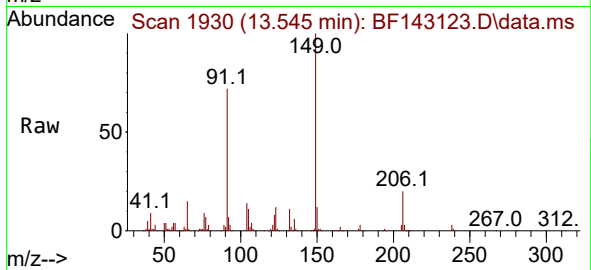
#80  
Butylbenzylphthalate  
Concen: 49.895 ng  
RT: 13.545 min Scan# 1931  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD

Tgt Ion:149 Resp: 226549  
Ion Ratio Lower Upper  
149 100  
91 72.4 57.0 85.4  
206 20.2 17.2 25.8

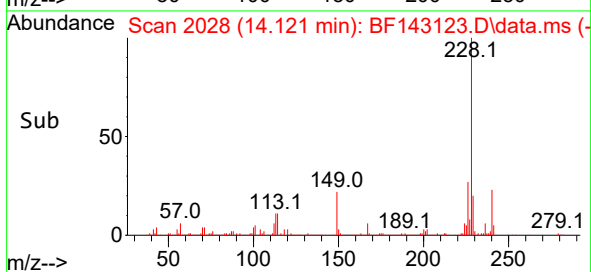
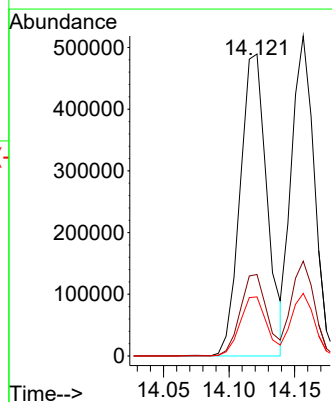
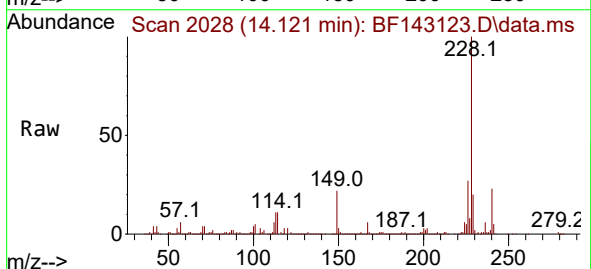
Manual Integrations  
APPROVED

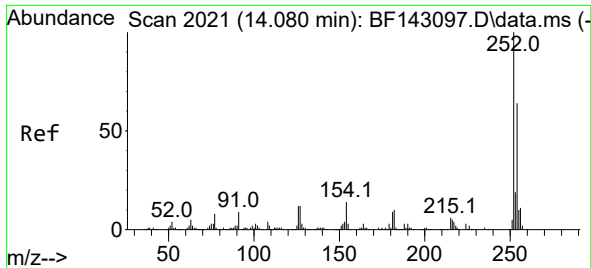
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025



#81  
Benzo(a)anthracene  
Concen: 43.273 ng  
RT: 14.121 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

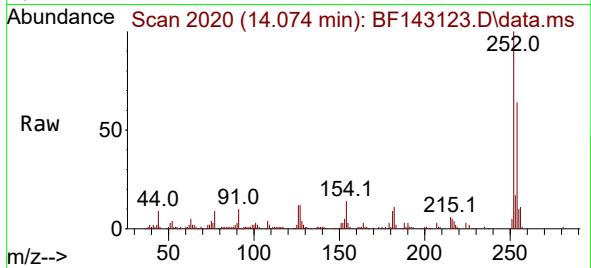
Tgt Ion:228 Resp: 700338  
Ion Ratio Lower Upper  
228 100  
226 27.0 21.3 31.9  
229 19.5 15.5 23.3





#82  
3,3'-Dichlorobenzidine  
Concen: 15.363 ng  
RT: 14.074 min Scan# 2020  
Delta R.T. -0.006 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

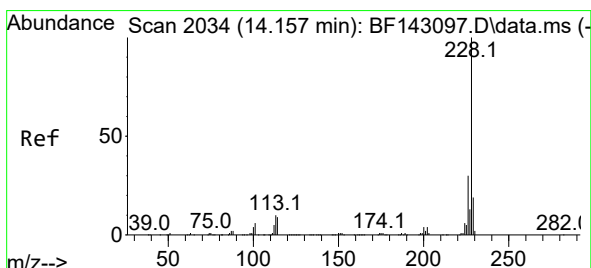
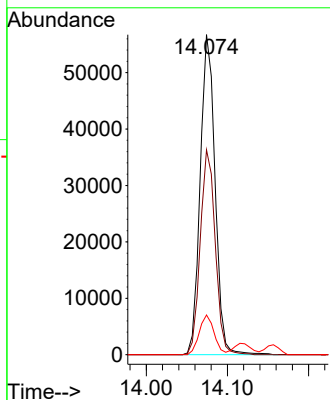
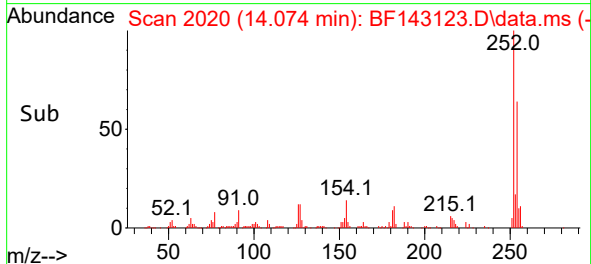
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



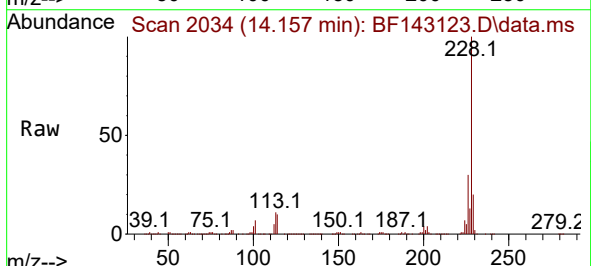
Tgt Ion:252 Resp: 7220  
Ion Ratio Lower Upper  
252 100  
254 64.0 51.5 77.3  
126 12.4 9.4 14.0

Manual Integrations  
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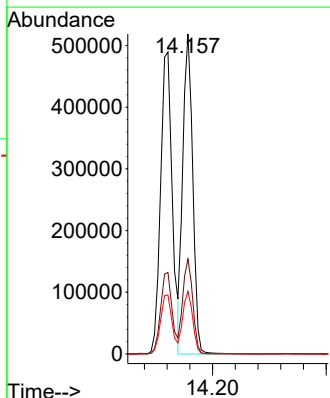
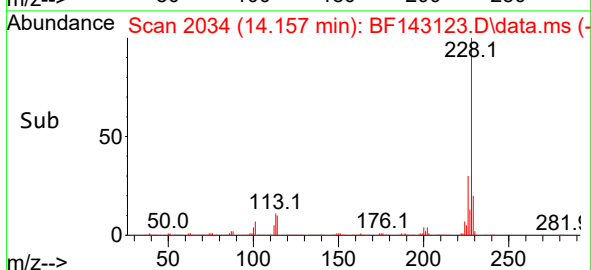
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

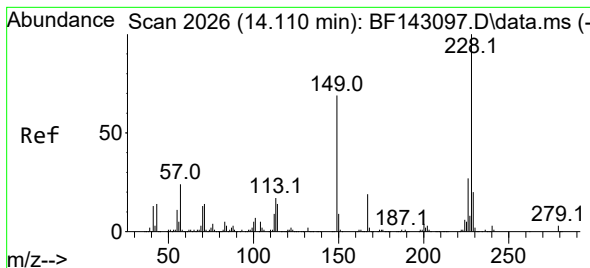


#83  
Chrysene  
Concen: 42.056 ng  
RT: 14.157 min Scan# 2034  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



Tgt Ion:228 Resp: 626869  
Ion Ratio Lower Upper  
228 100  
226 29.6 23.4 35.2  
229 19.6 15.3 22.9





#84

Bis(2-ethylhexyl)phthalate

Concen: 50.248 ng

RT: 14.110 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD

Tgt Ion:149 Resp: 344260

Ion Ratio Lower Upper

149 100

167 27.4 21.9 32.9

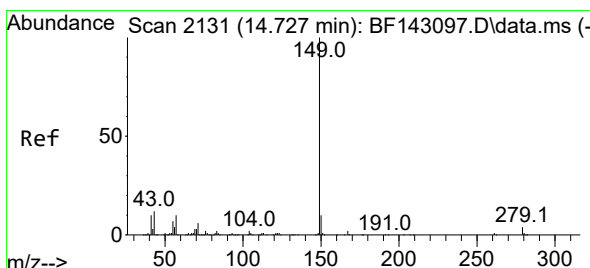
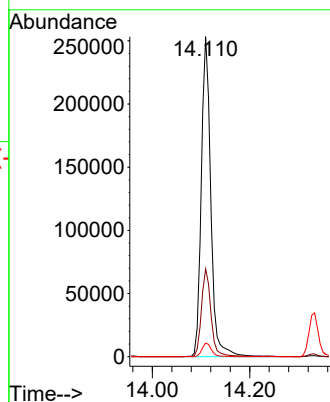
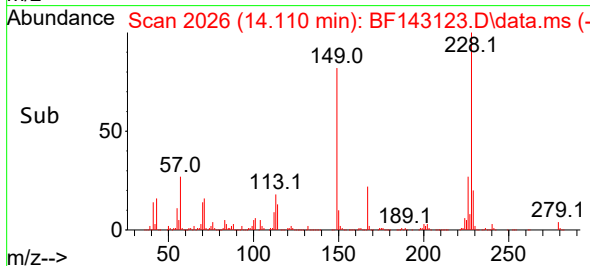
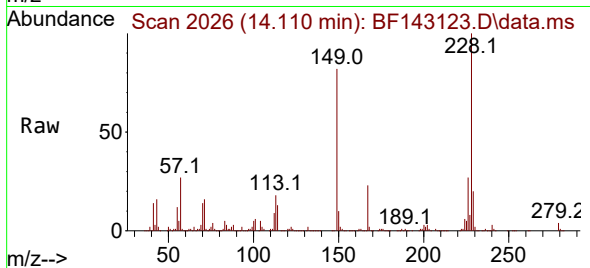
279 4.3 3.4 5.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#85

Di-n-octyl phthalate

Concen: 52.034 ng

RT: 14.727 min Scan# 2131

Delta R.T. 0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

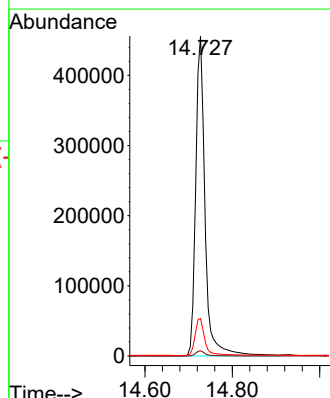
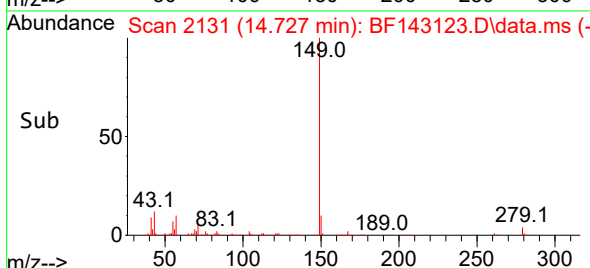
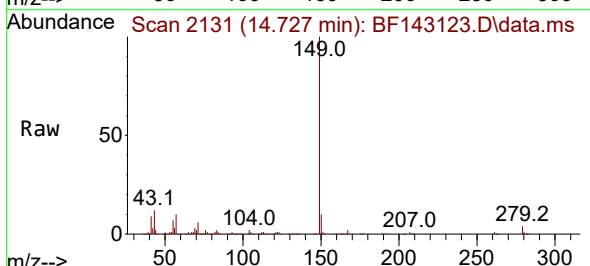
Tgt Ion:149 Resp: 680638

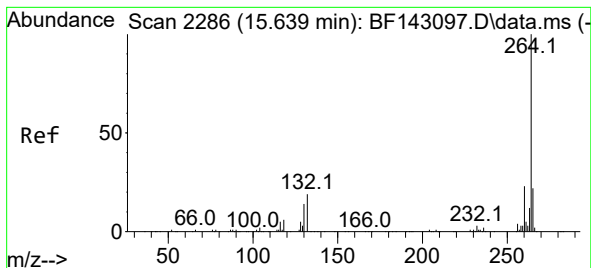
Ion Ratio Lower Upper

149 100

167 1.7 1.2 1.8

43 12.3 10.6 16.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.633 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD

Tgt Ion:264 Resp: 288284

Ion Ratio Lower Upper

264 100

260 23.0 18.5 27.7

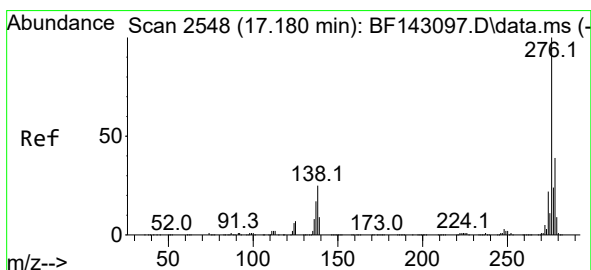
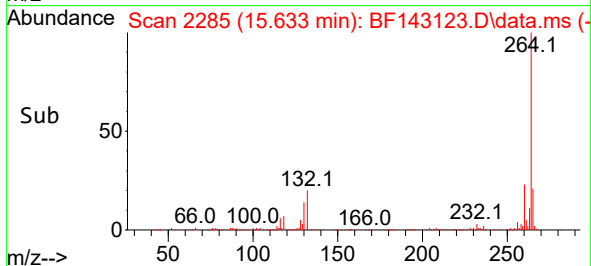
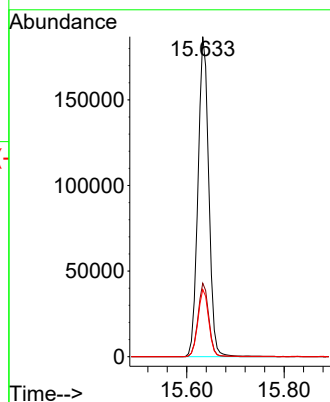
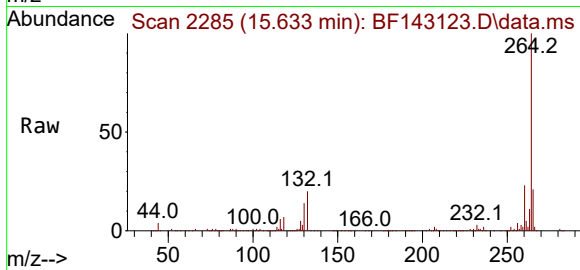
265 21.0 17.5 26.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 43.324 ng

RT: 17.180 min Scan# 2548

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

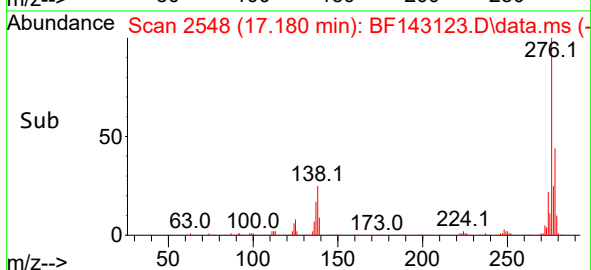
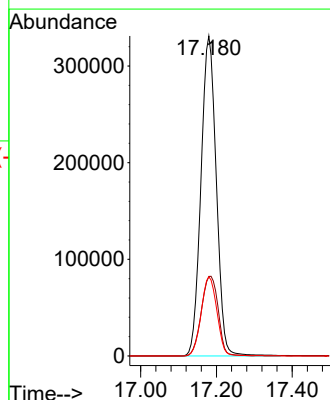
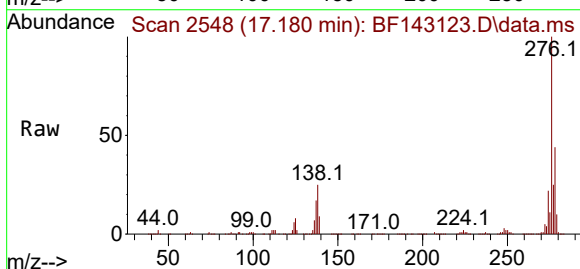
Tgt Ion:276 Resp: 928932

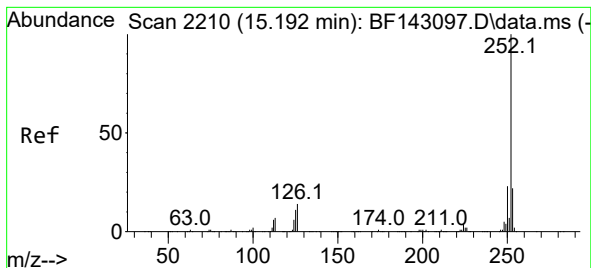
Ion Ratio Lower Upper

276 100

138 27.3 22.6 34.0

277 25.4 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 42.554 ng

RT: 15.192 min Scan# 2210

Delta R.T. -0.000 min

Lab File: BF143123.D

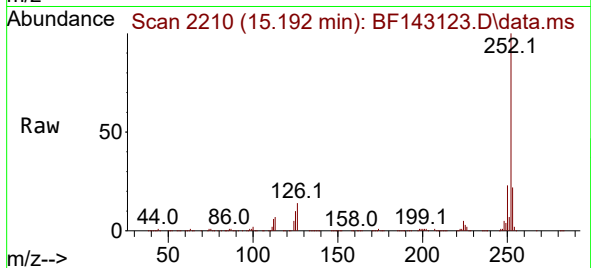
Acq: 16 Jul 2025 22:38

Instrument :

BNA\_F

ClientSampleId :

WC-SOIL-20250711MSD



Tgt Ion:252 Resp: 707624

Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

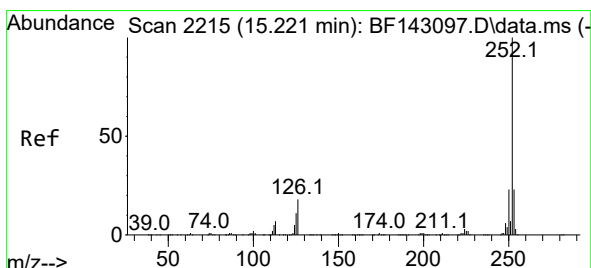
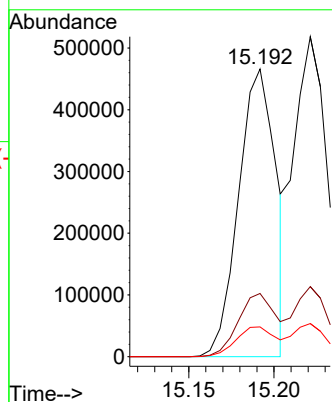
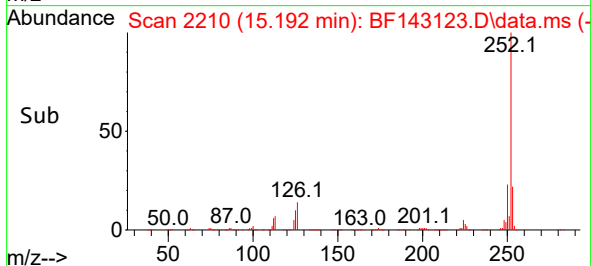
125 10.3 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#89

Benzo(k)fluoranthene

Concen: 45.560 ng

RT: 15.221 min Scan# 2215

Delta R.T. -0.000 min

Lab File: BF143123.D

Acq: 16 Jul 2025 22:38

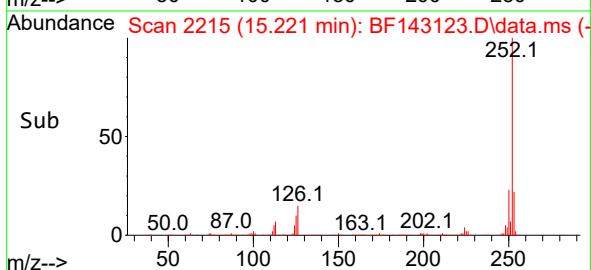
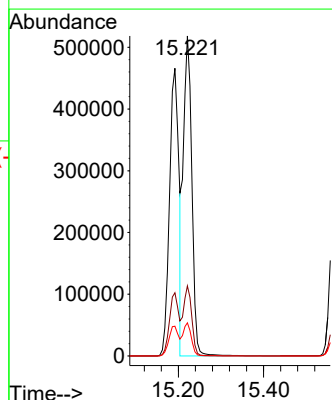
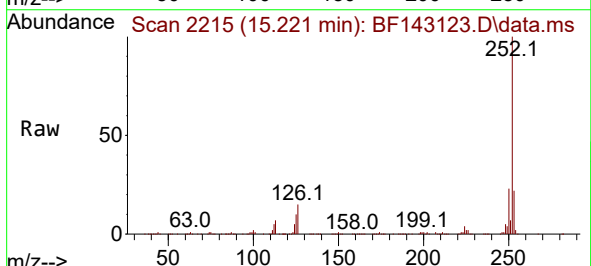
Tgt Ion:252 Resp: 722763

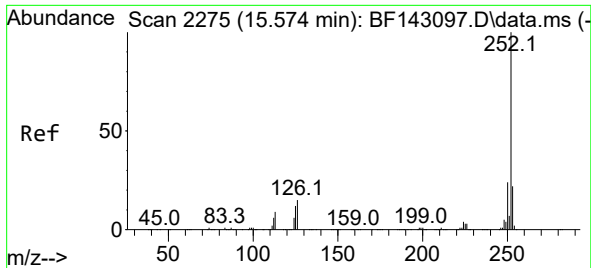
Ion Ratio Lower Upper

252 100

253 21.9 17.4 26.2

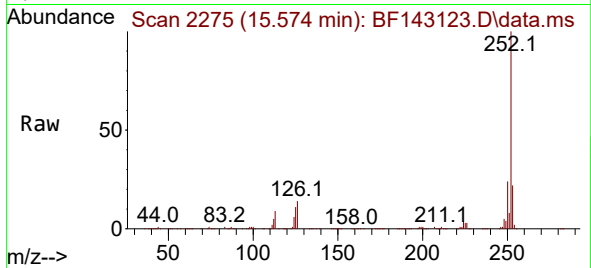
125 10.4 8.5 12.7





#90  
Benzo(a)pyrene  
Concen: 44.811 ng  
RT: 15.574 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38

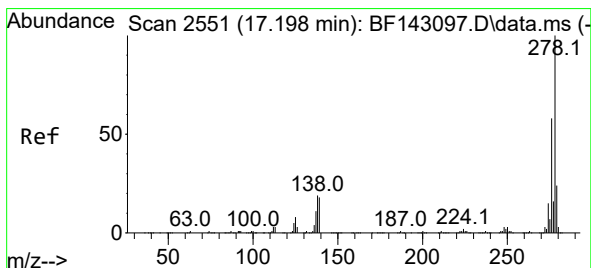
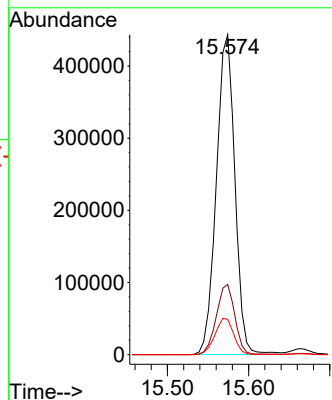
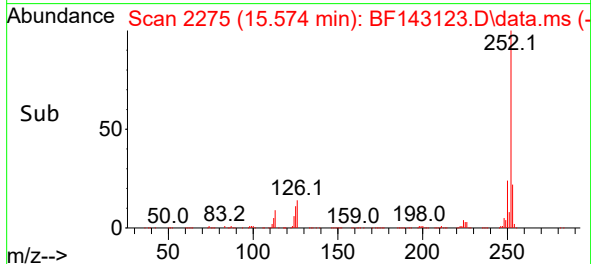
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20250711MSD



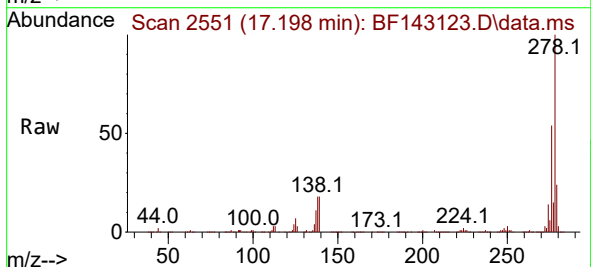
Tgt Ion:252 Resp: 704754  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.5 26.3  
125 11.0 9.4 14.0

Manual Integrations  
APPROVED

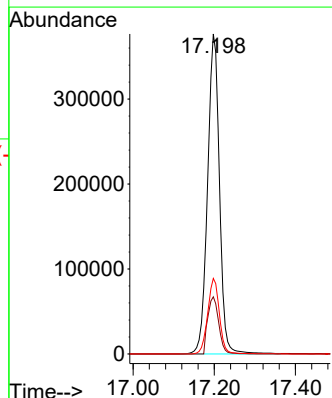
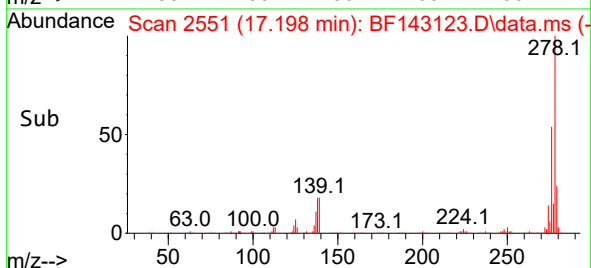
Reviewed By :Rahul Chavli 07/17/2025  
Supervised By :Jagrut Upadhyay 07/17/2025

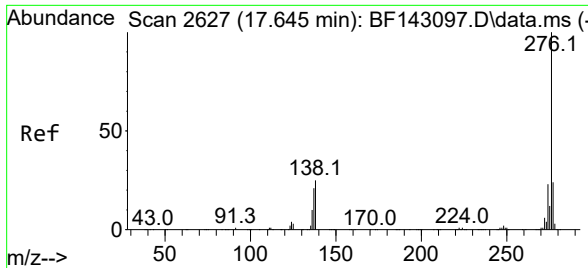


#91  
Dibenzo(a,h)anthracene  
Concen: 43.634 ng  
RT: 17.198 min Scan# 2551  
Delta R.T. -0.000 min  
Lab File: BF143123.D  
Acq: 16 Jul 2025 22:38



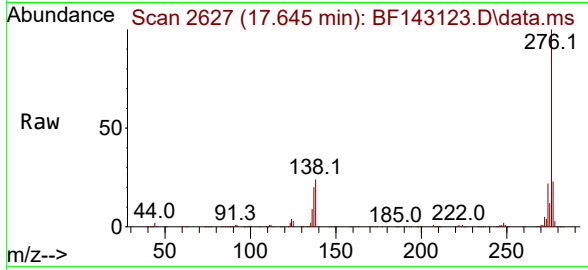
Tgt Ion:278 Resp: 764803  
Ion Ratio Lower Upper  
278 100  
139 17.9 14.6 22.0  
279 23.6 18.8 28.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 41.795 ng  
 RT: 17.645 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: BF143123.D  
 Acq: 16 Jul 2025 22:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-SOIL-20250711MSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 74687 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.5  | 19.2  | 28.8  |
| 138       | 24.3  | 19.8  | 29.6  |

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 07/17/2025  
 Supervised By :Jagrut Upadhyay 07/17/2025

