

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071423\  
 Data File : BF134303.D  
 Acq On : 14 Jul 2023 22:30  
 Operator : CG\JU  
 Sample : 03592-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-PILE

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/15/2023  
 Supervised By :mohammad ahmed 07/19/2023

Quant Time: Jul 15 01:14:35 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 14 22:51:27 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.840  | 152  | 73642    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.122  | 136  | 276130   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.881  | 164  | 134632   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.375 | 188  | 240545   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.039 | 240  | 166077   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.539 | 264  | 129717   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.475  | 112  | 469360   | 106.615 | ng    | 0.00     |
| 7) Phenol-d6                | 6.481  | 99   | 542559   | 100.212 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.404  | 82   | 375294   | 73.264  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.675 | 330  | 170700   | 101.125 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.198  | 172  | 686232   | 74.106  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.974 | 244  | 643140   | 62.325  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.398 | 178  | 28351    | 2.341   | ng    | 100      |
| 75) Fluoranthene            | 12.598 | 202  | 147425   | 11.261  | ng    | 98       |
| 78) Pyrene                  | 12.827 | 202  | 128389   | 8.307   | ng    | 100      |
| 81) Benzo(a)anthracene      | 14.027 | 228  | 61873    | 5.372   | ng    | 99       |
| 83) Chrysene                | 14.063 | 228  | 43823    | 3.928   | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.098 | 252  | 38567m   | 5.056   | ng    |          |
| 90) Benzo(a)pyrene          | 15.480 | 252  | 24117    | 3.270   | ng    | 95       |
| -----                       |        |      |          |         |       |          |

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

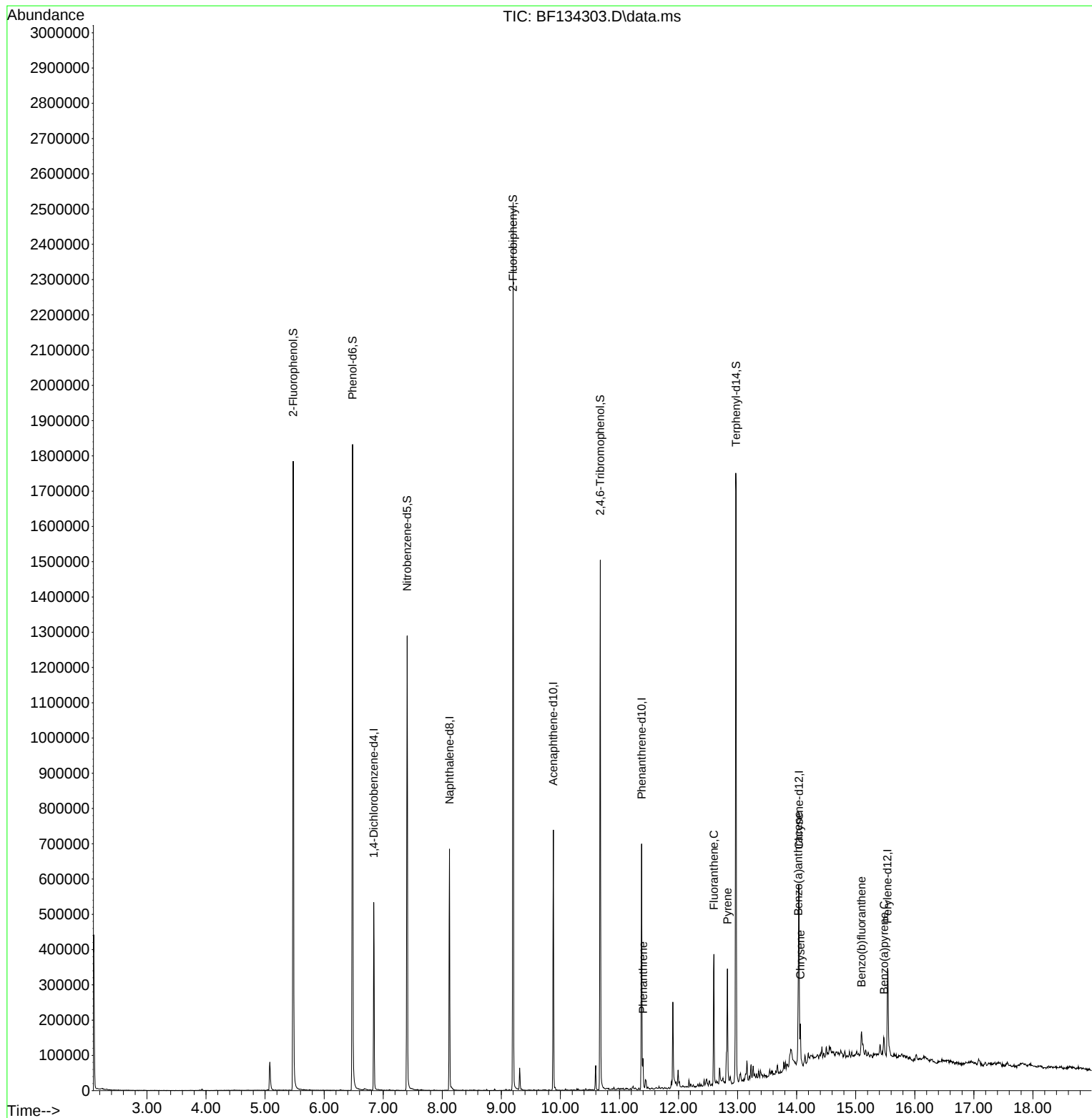
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071423\  
Data File : BF134303.D  
Acq On : 14 Jul 2023 22:30  
Operator : CG\JU  
Sample : 03592-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE

Quant Time: Jul 15 01:14:35 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 14 22:51:27 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

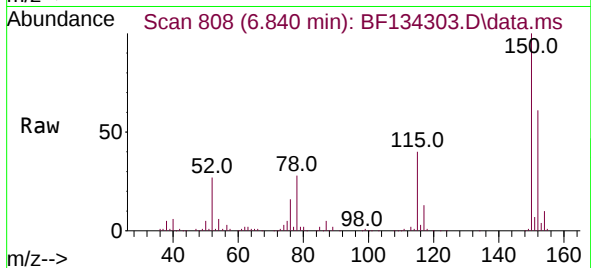
Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.840 min Scan# 80  
Delta R.T. -0.005 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

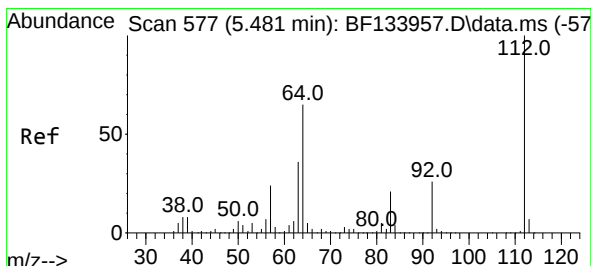
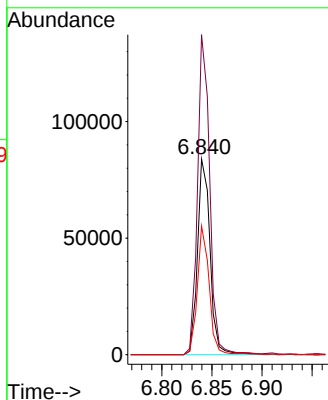
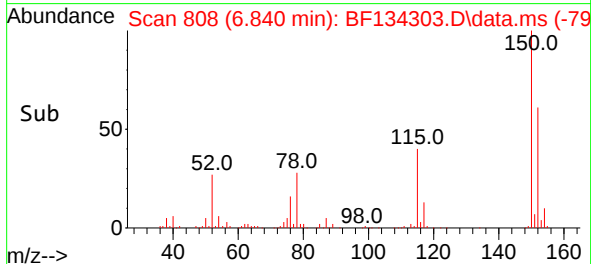
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE



Tgt Ion:152 Resp: 7364  
Ion Ratio Lower Upper  
152 100  
150 163.5 124.5 186.7  
115 65.7 50.2 75.2

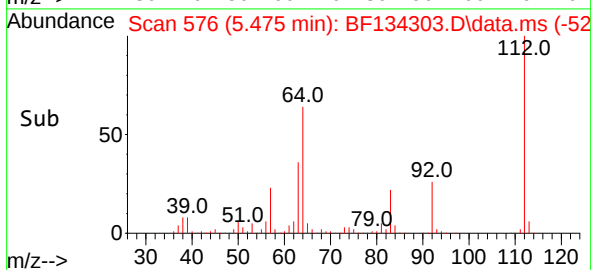
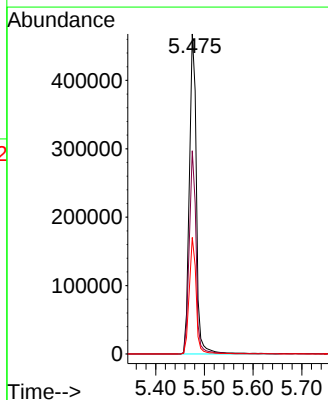
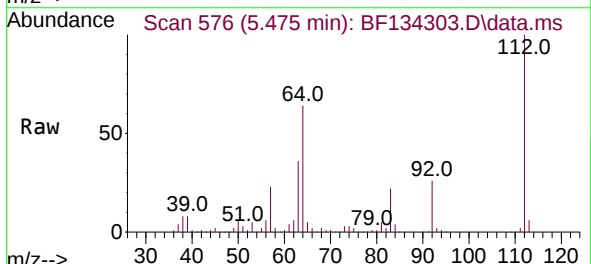
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023



#5  
2-Fluorophenol  
Concen: 106.615 ng  
RT: 5.475 min Scan# 576  
Delta R.T. 0.006 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

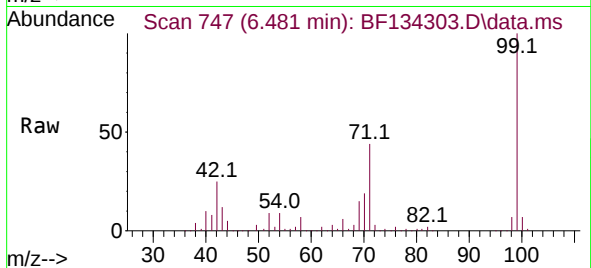
Tgt Ion:112 Resp: 469360  
Ion Ratio Lower Upper  
112 100  
64 63.5 52.1 78.1  
63 36.4 28.6 42.8





#7  
Phenol-d6  
Concen: 100.212 ng  
RT: 6.481 min Scan# 749  
Delta R.T. -0.006 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

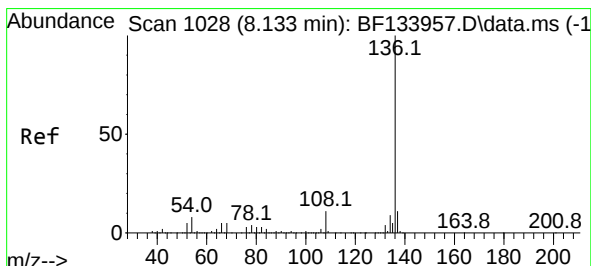
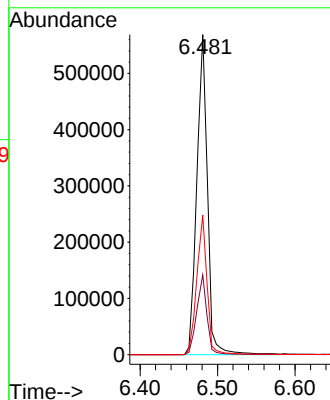
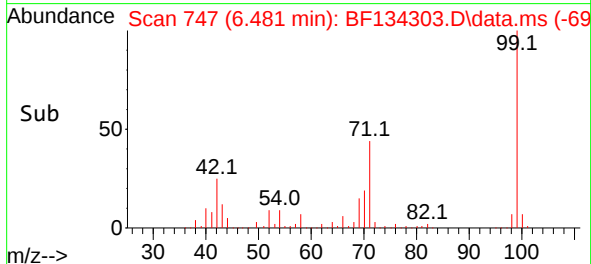
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE



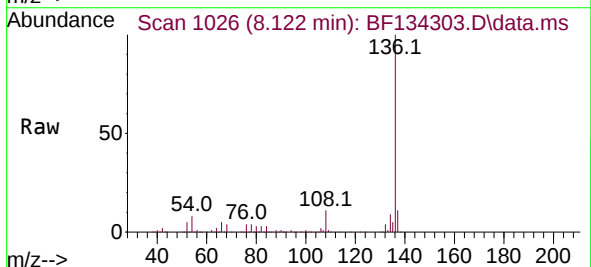
Tgt Ion: 99 Resp: 54255  
Ion Ratio Lower Upper  
99 100  
42 25.0 19.8 29.6  
71 43.6 31.9 47.9

Manual Integrations  
APPROVED

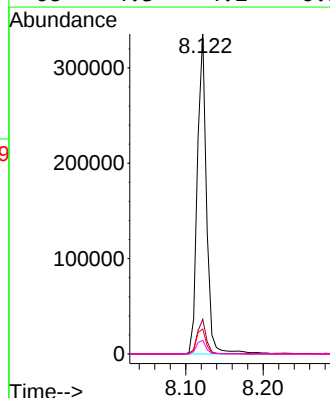
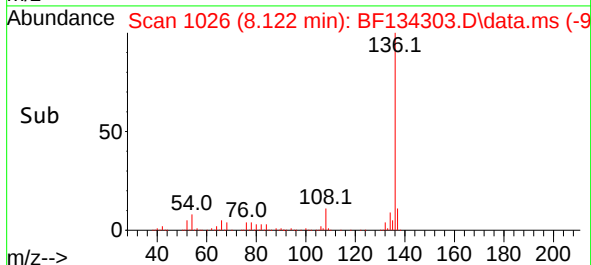
Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023

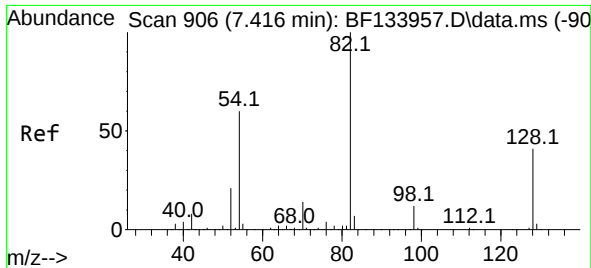


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.122 min Scan# 1026  
Delta R.T. 0.000 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30



Tgt Ion:136 Resp: 276130  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 12.8  
54 7.8 6.5 9.7  
68 4.3 4.2 6.2





#23

Nitrobenzene-d5

Concen: 73.264 ng

RT: 7.404 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Instrument :

BNA\_F

ClientSampleId :

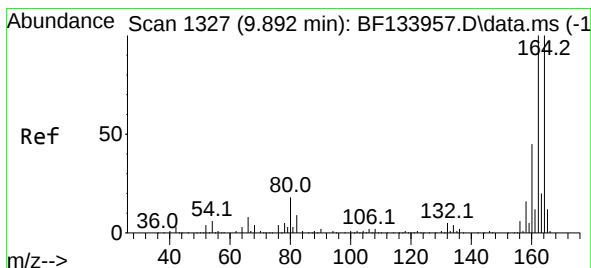
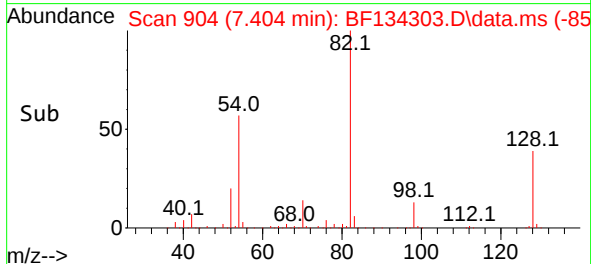
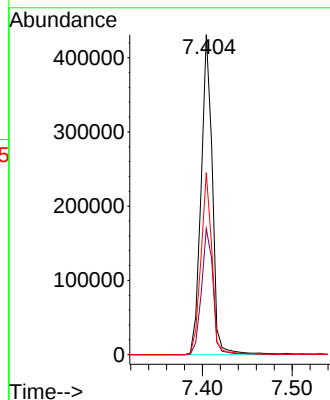
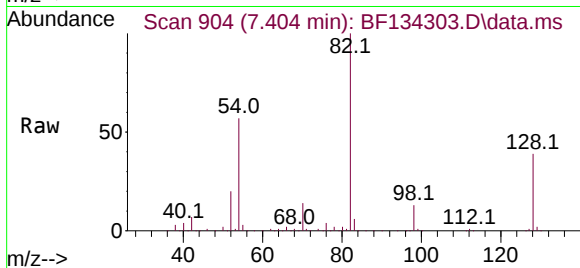
SOIL-PILE

Tgt Ion: 82 Resp: 375294  
 Ion Ratio Lower Upper  
 82 100  
 128 39.4 32.5 48.7  
 54 56.9 48.2 72.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 07/15/2023  
 Supervised By :mohammad ahmed 07/19/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

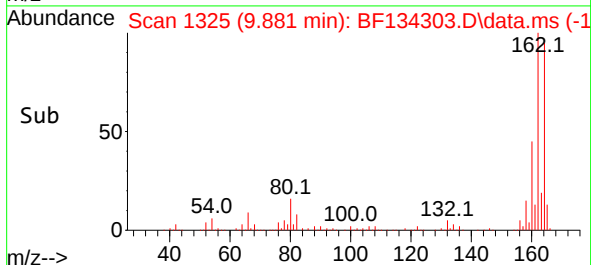
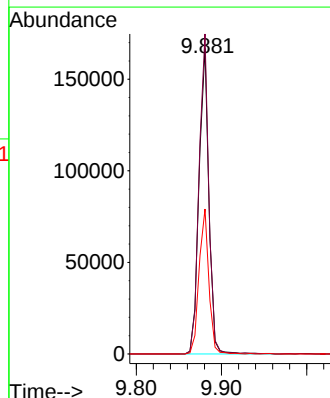
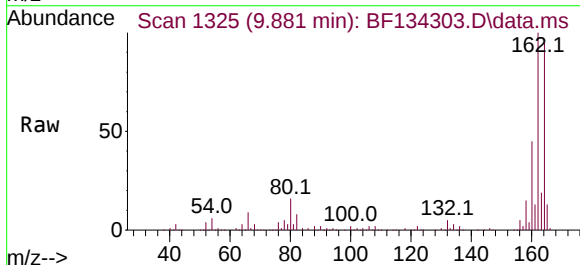
RT: 9.881 min Scan# 1325

Delta R.T. 0.000 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Tgt Ion:164 Resp: 134632  
 Ion Ratio Lower Upper  
 164 100  
 162 104.7 80.0 120.0  
 160 47.4 35.9 53.9





#42  
2,4,6-Tribromophenol  
Concen: 101.125 ng  
RT: 10.675 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Instrument :

BNA\_F

ClientSampleId :

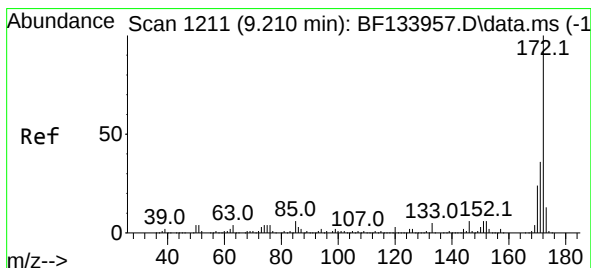
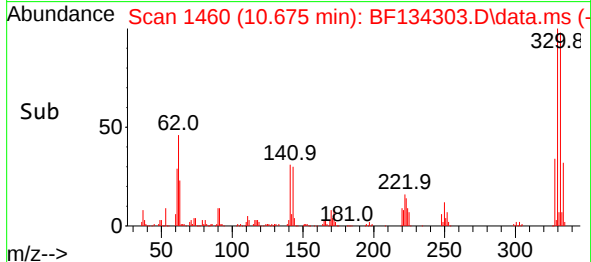
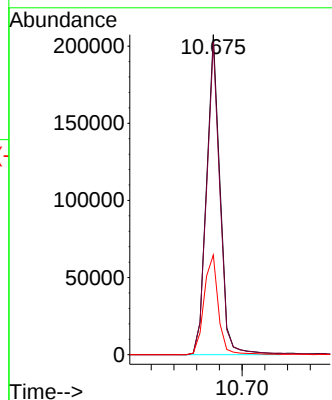
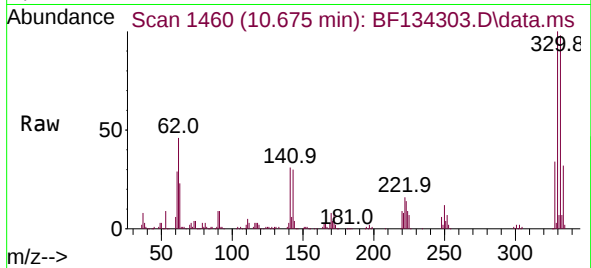
SOIL-PILE

Tgt Ion:330 Resp: 170700  
Ion Ratio Lower Upper  
330 100  
332 98.0 77.0 115.6  
141 33.1 26.3 39.5

Manual Integrations

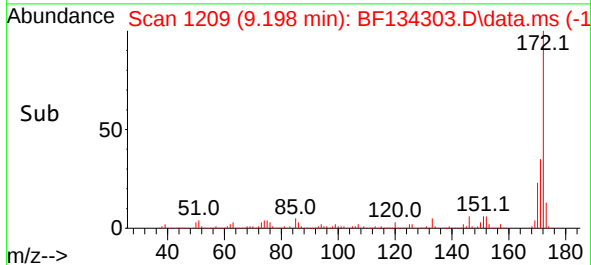
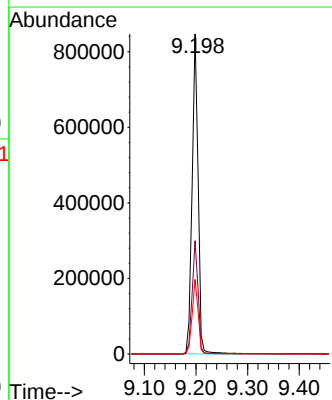
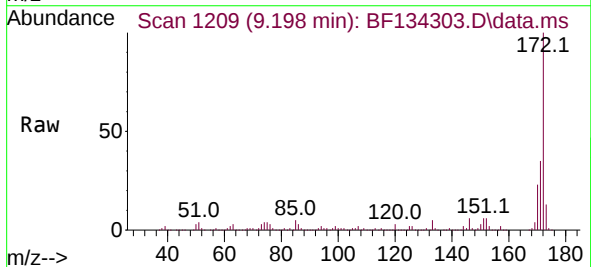
APPROVED

Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023



#45  
2-Fluorobiphenyl  
Concen: 74.106 ng  
RT: 9.198 min Scan# 1209  
Delta R.T. -0.006 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Tgt Ion:172 Resp: 686232  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.6 43.0  
170 23.3 19.4 29.0





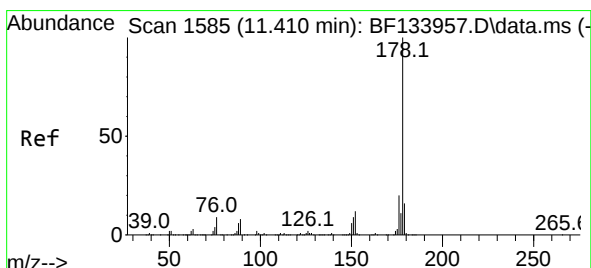
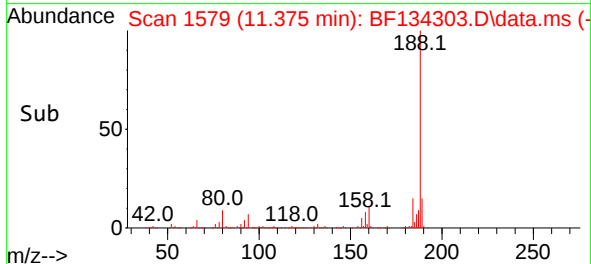
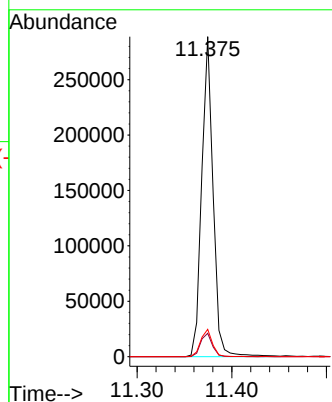
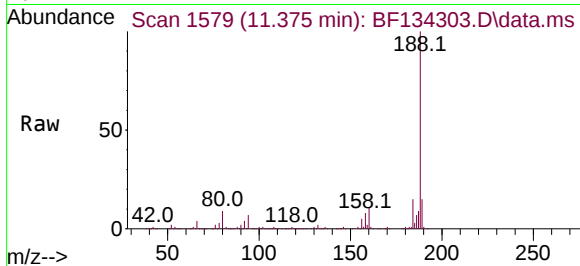
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.375 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE

Tgt Ion:188 Resp: 24054  
Ion Ratio Lower Upper  
188 100  
94 7.3 6.4 9.6  
80 8.5 7.3 10.9

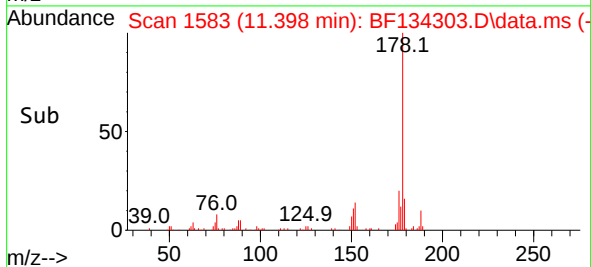
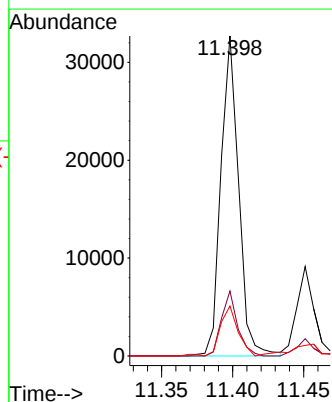
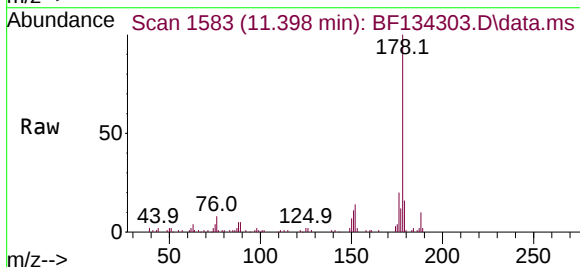
Manual Integrations  
APPROVED

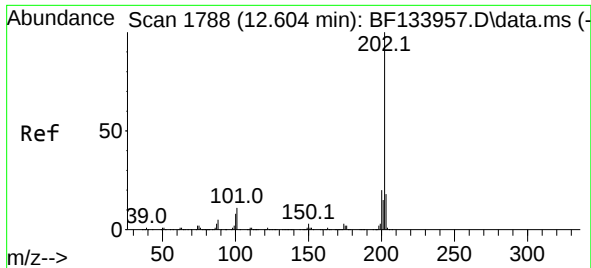
Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023



#71  
Phenanthrene  
Concen: 2.341 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.006 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Tgt Ion:178 Resp: 28351  
Ion Ratio Lower Upper  
178 100  
176 20.3 16.0 24.0  
179 15.6 12.4 18.6





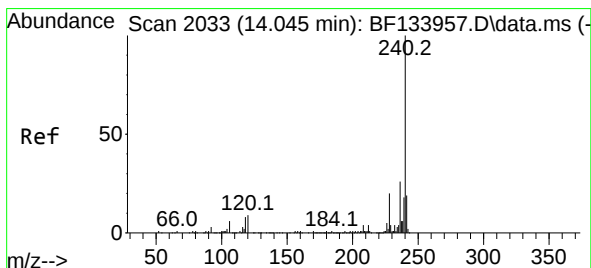
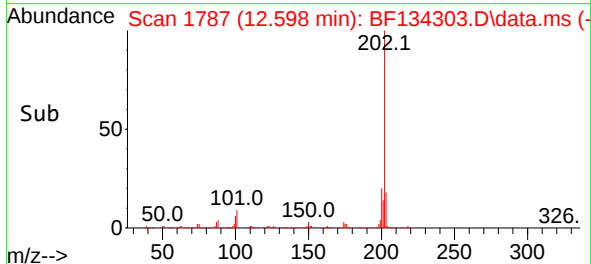
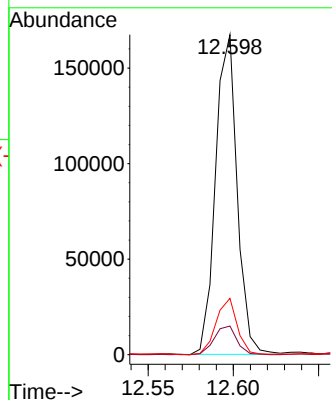
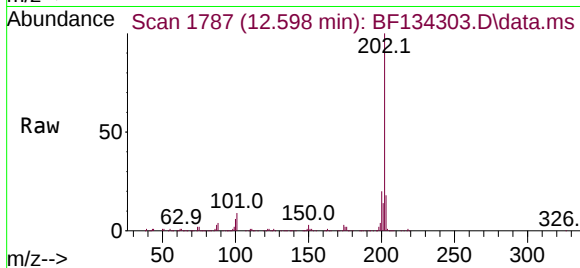
#75  
Fluoranthene  
Concen: 11.261 ng  
RT: 12.598 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE

Tgt Ion:202 Resp: 147425  
Ion Ratio Lower Upper  
202 100  
101 8.9 0.0 31.0  
203 17.6 0.0 37.6

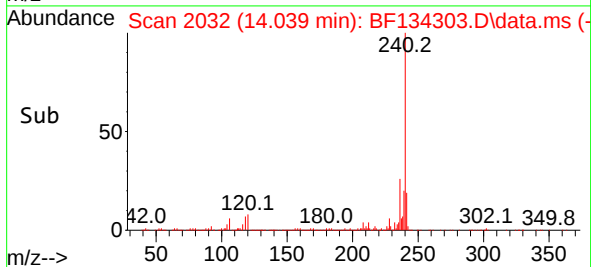
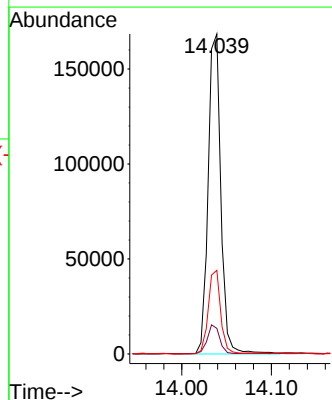
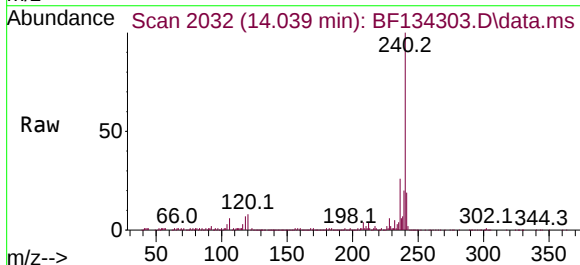
Manual Integrations  
APPROVED

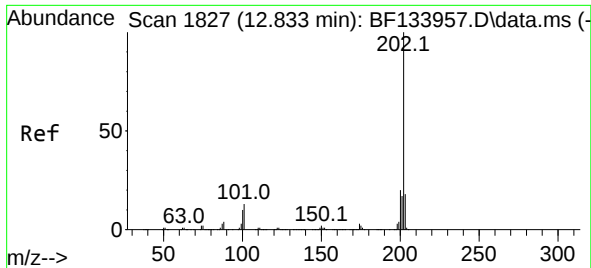
Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. 0.000 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

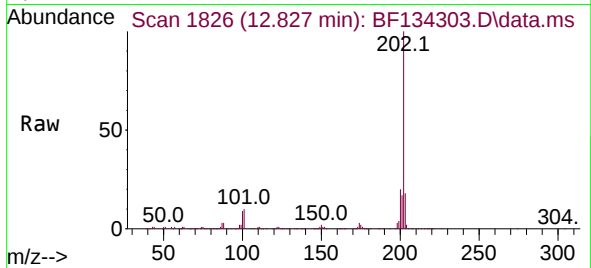
Tgt Ion:240 Resp: 166077  
Ion Ratio Lower Upper  
240 100  
120 8.0 7.4 11.0  
236 26.1 21.0 31.6





#78  
Pyrene  
Concen: 8.307 ng  
RT: 12.827 min Scan# 1826  
Delta R.T. -0.006 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

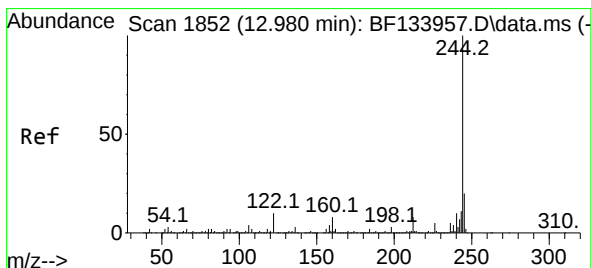
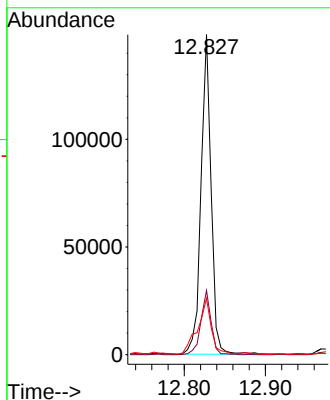
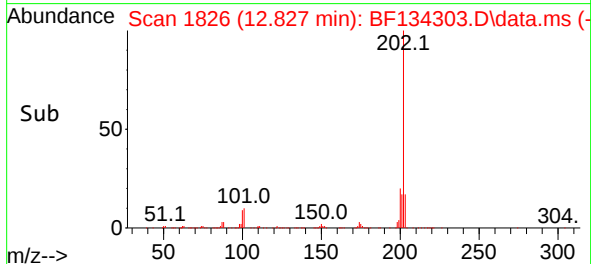
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE



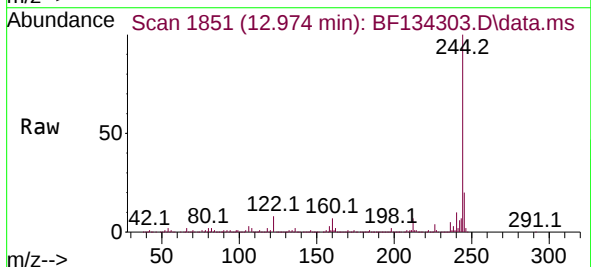
Tgt Ion:202 Resp: 128389  
Ion Ratio Lower Upper  
202 100  
200 20.1 16.1 24.1  
203 17.6 14.3 21.5

Manual Integrations  
APPROVED

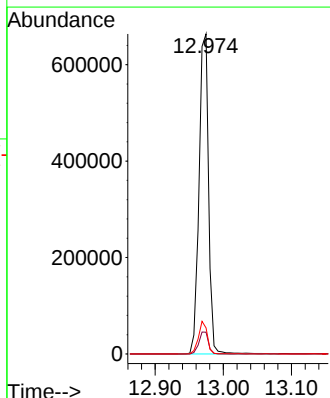
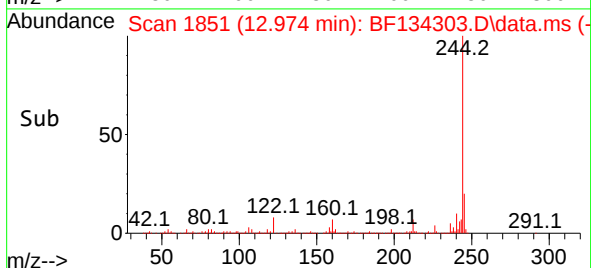
Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023

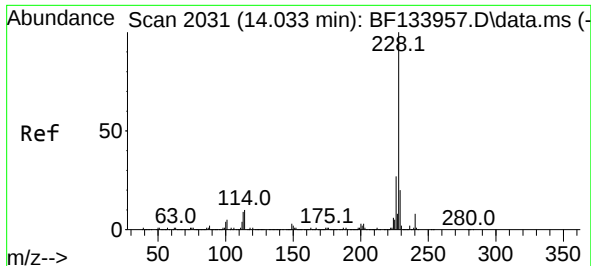


#79  
Terphenyl-d14  
Concen: 62.325 ng  
RT: 12.974 min Scan# 1851  
Delta R.T. 0.000 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30



Tgt Ion:244 Resp: 643140  
Ion Ratio Lower Upper  
244 100  
212 6.8 6.0 9.0  
122 8.2 8.3 12.5





#81  
Benzo(a)anthracene  
Concen: 5.372 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. 0.000 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Instrument :

BNA\_F

ClientSampleId :

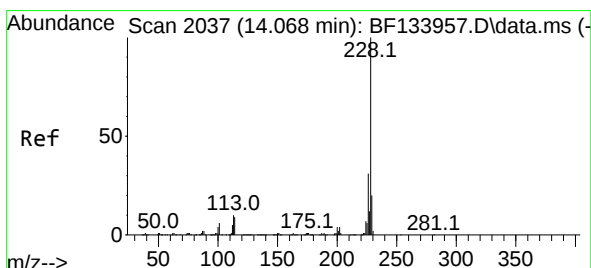
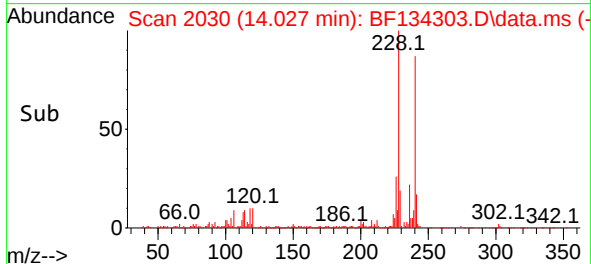
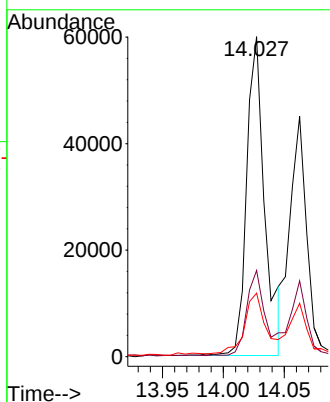
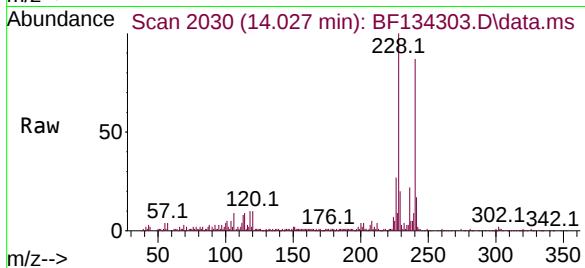
SOIL-PILE

Tgt Ion:228 Resp: 6187  
Ion Ratio Lower Upper  
228 100  
226 26.9 22.0 33.0  
229 19.8 16.3 24.5

Manual Integrations

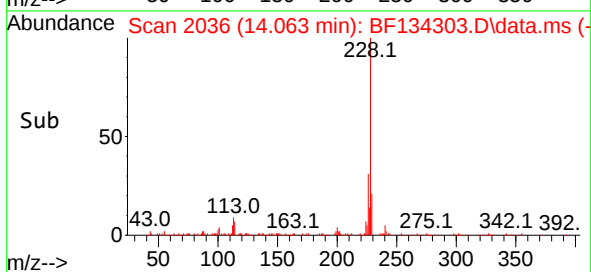
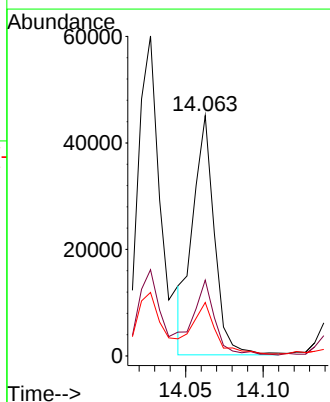
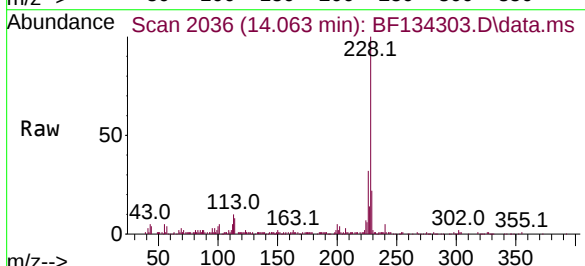
APPROVED

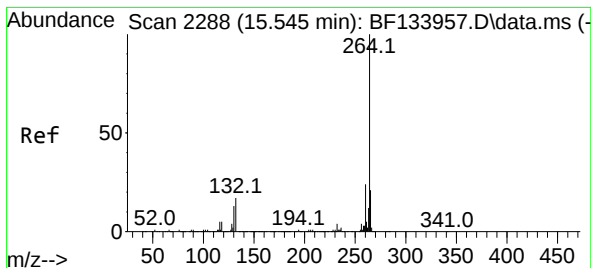
Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023



#83  
Chrysene  
Concen: 3.928 ng  
RT: 14.063 min Scan# 2036  
Delta R.T. -0.006 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Tgt Ion:228 Resp: 43823  
Ion Ratio Lower Upper  
228 100  
226 31.5 24.4 36.6  
229 22.2 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Instrument :

BNA\_F

ClientSampleId :

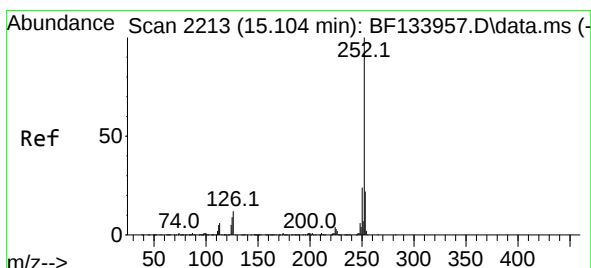
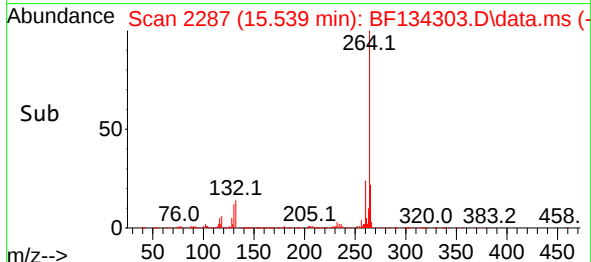
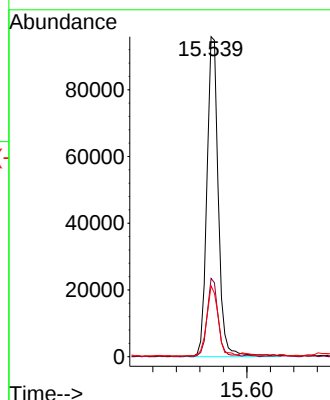
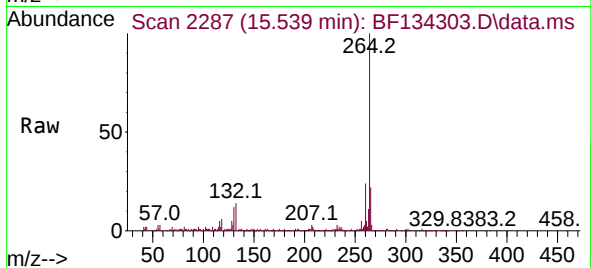
SOIL-PILE

Tgt Ion:264 Resp: 12971  
 Ion Ratio Lower Upper  
 264 100  
 260 24.5 19.5 29.3  
 265 22.2 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 07/15/2023  
 Supervised By :mohammad ahmed 07/19/2023



#88

Benzo(b)fluoranthene

Concen: 5.056 ng m

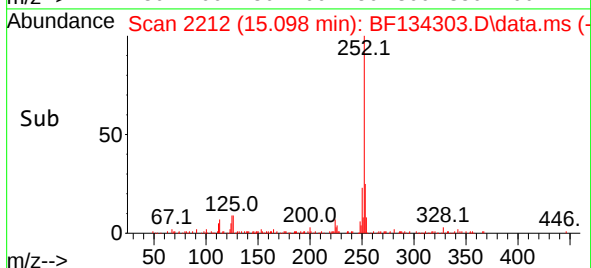
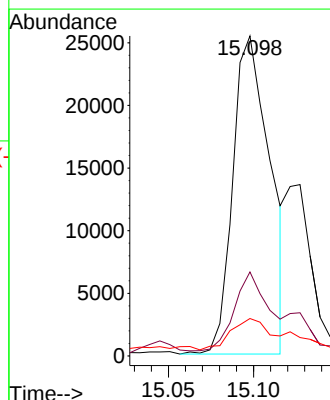
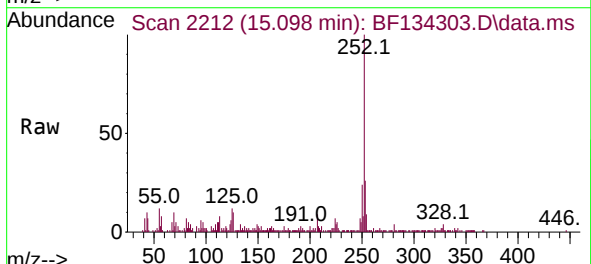
RT: 15.098 min Scan# 2212

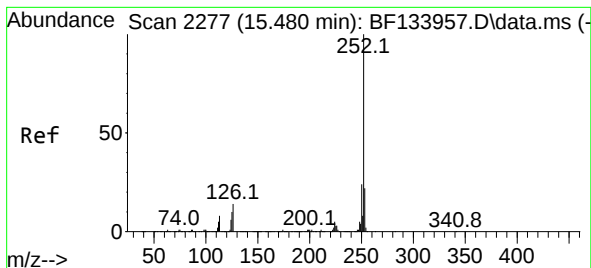
Delta R.T. -0.006 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

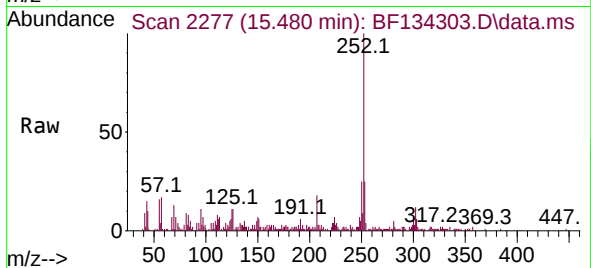
Tgt Ion:252 Resp: 38567  
 Ion Ratio Lower Upper  
 252 100  
 253 26.2 17.4 26.0#  
 125 11.7 7.1 10.7#





#90  
Benzo(a)pyrene  
Concen: 3.270 ng  
RT: 15.480 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: BF134303.D  
Acq: 14 Jul 2023 22:30

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-PILE



Tgt Ion:252 Resp: 2411  
Ion Ratio Lower Upper  
252 100  
253 25.3 17.4 26.0  
125 10.7 8.4 12.6

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 07/15/2023  
Supervised By :mohammad ahmed 07/19/2023

