

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091923\  
 Data File : BF135343.D  
 Acq On : 19 Sep 2023 19:29  
 Operator : CG\JU  
 Sample : 04460-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DEL-2-RIGHT-SIDE

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/20/2023  
 Supervised By :mohammad ahmed 09/20/2023

Quant Time: Sep 20 01:38:22 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 00:19:07 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.757  | 152  | 130884   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.033  | 136  | 474327   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.792  | 164  | 193684   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.280 | 188  | 304673   | 20.000 | ng    | #-0.01   |
| 76) Chrysene-d12            | 13.939 | 240  | 232702   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.409 | 264  | 217855   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.386  | 112  | 575876   | 71.562 | ng    | 0.00     |
| 7) Phenol-d6                | 6.398  | 99   | 714999   | 69.875 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.322  | 82   | 421735   | 48.306 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.586 | 330  | 100481   | 52.205 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.116  | 172  | 678785   | 52.875 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.880 | 244  | 504711   | 33.622 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.304 | 178  | 53388    | 3.705  | ng    | 99       |
| 75) Fluoranthene            | 12.504 | 202  | 130716   | 8.706  | ng    | 99       |
| 78) Pyrene                  | 12.733 | 202  | 138150   | 6.236  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.933 | 228  | 66610    | 4.433  | ng    | 94       |
| 83) Chrysene                | 13.968 | 228  | 68052m   | 4.555  | ng    |          |
| 88) Benzo(b)fluoranthene    | 14.986 | 252  | 75689m   | 6.418  | ng    |          |
| 90) Benzo(a)pyrene          | 15.345 | 252  | 49978    | 4.444  | ng    | # 87     |
| 92) Benzo(g,h,i)perylene    | 17.339 | 276  | 26518    | 2.173  | ng    | # 90     |
| -----                       |        |      |          |        |       |          |

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

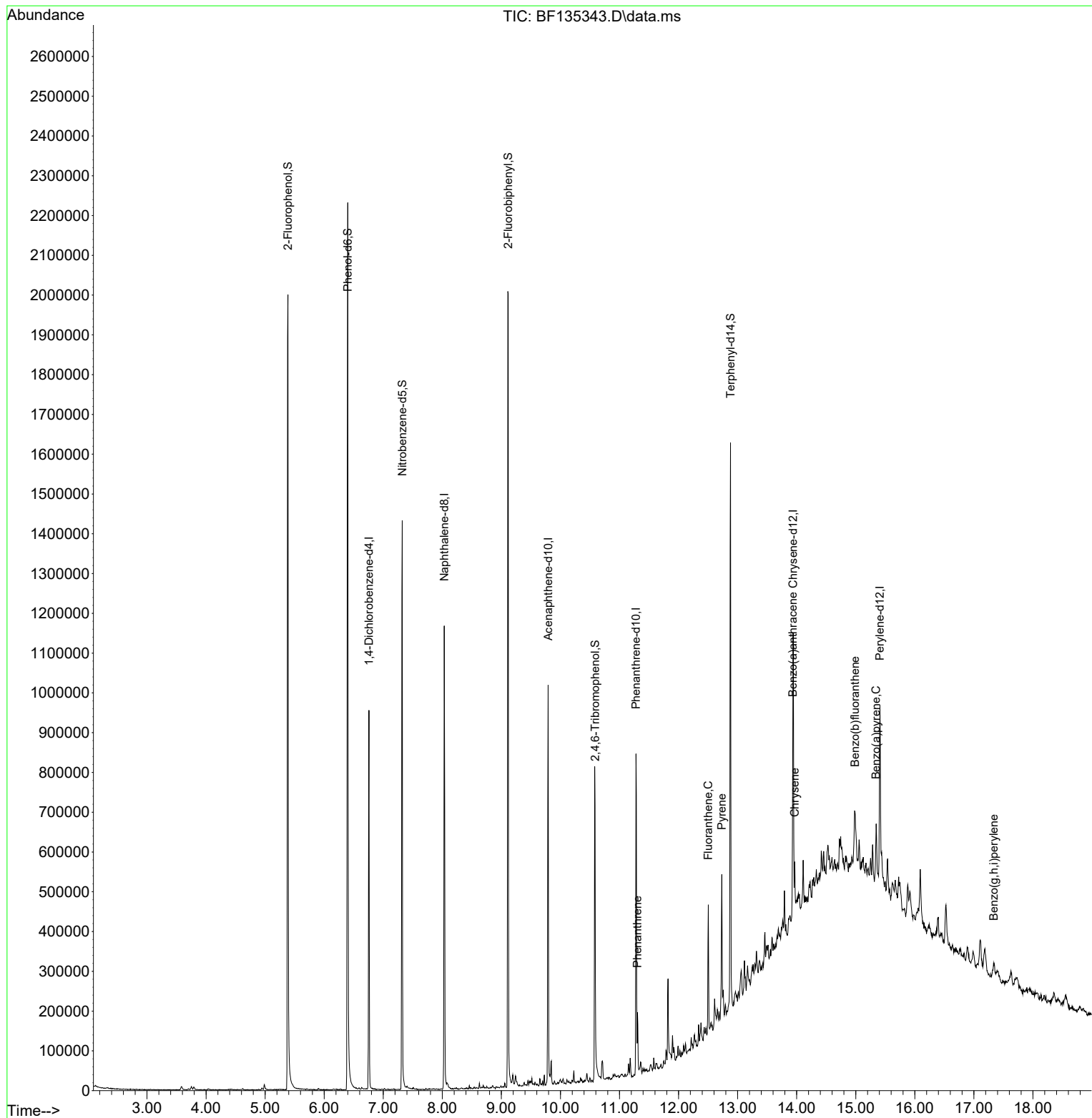
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091923\  
Data File : BF135343.D  
Acq On : 19 Sep 2023 19:29  
Operator : CG\JU  
Sample : 04460-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

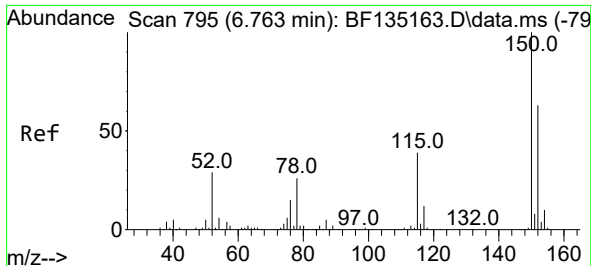
Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE

Quant Time: Sep 20 01:38:22 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 12 00:19:07 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

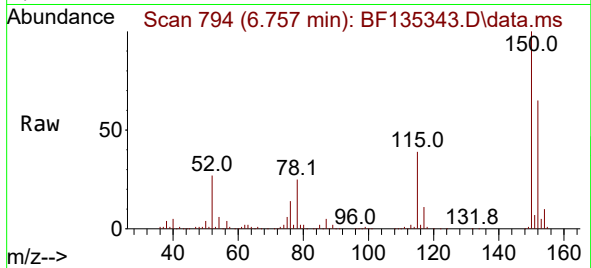
Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/20/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.757 min Scan# 795  
Delta R.T. -0.006 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

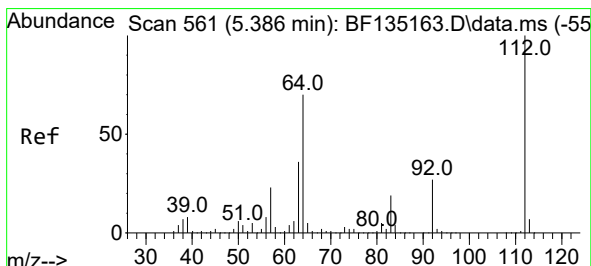
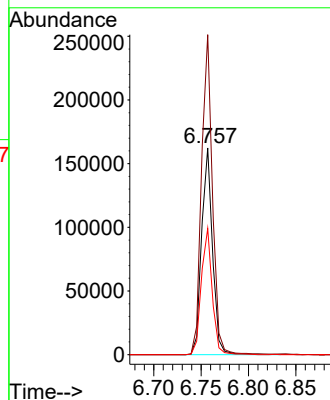
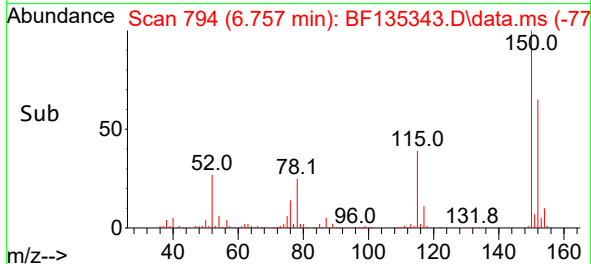
Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE



Tgt Ion:152 Resp: 130884  
Ion Ratio Lower Upper  
152 100  
150 154.7 127.8 191.6  
115 61.1 49.8 74.8

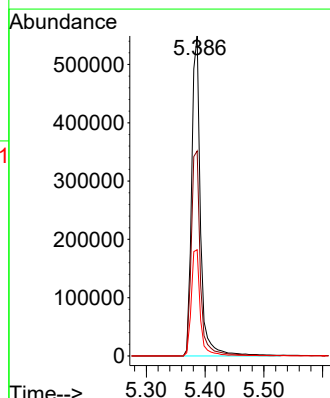
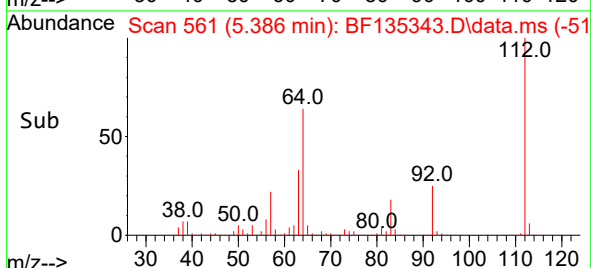
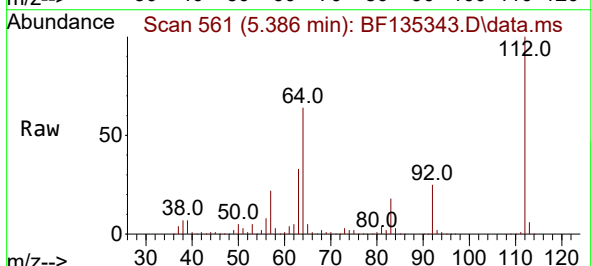
Manual Integrations  
APPROVED

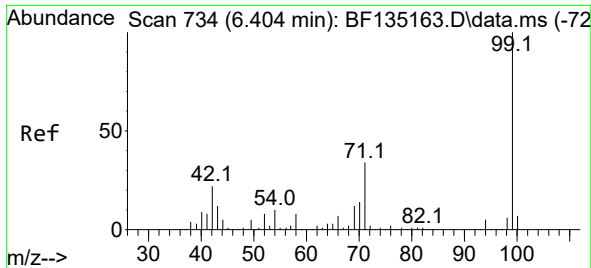
Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/20/2023



#5  
2-Fluorophenol  
Concen: 71.562 ng  
RT: 5.386 min Scan# 561  
Delta R.T. 0.000 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Tgt Ion:112 Resp: 575876  
Ion Ratio Lower Upper  
112 100  
64 64.0 55.9 83.9  
63 33.2 29.0 43.6





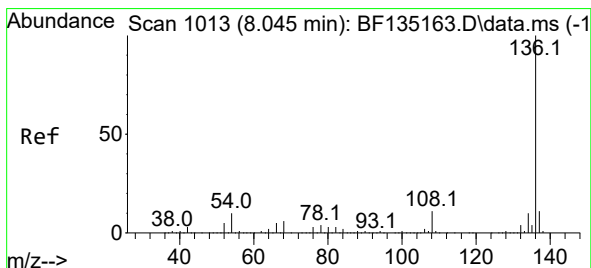
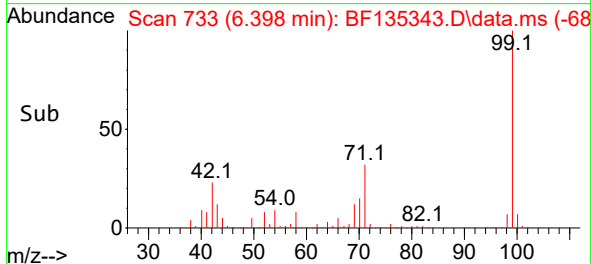
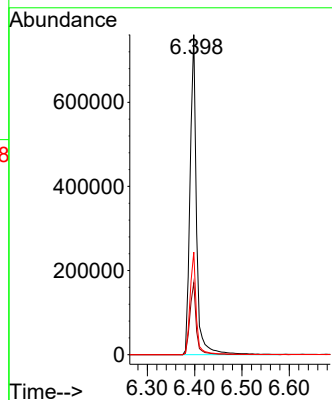
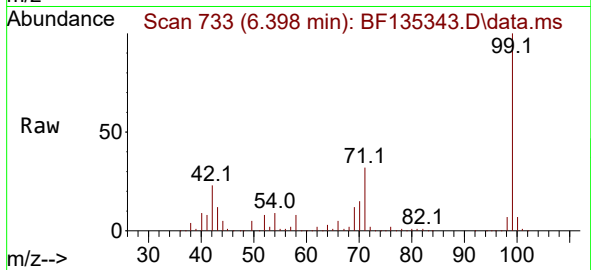
#7  
Phenol-d6  
Concen: 69.875 ng  
RT: 6.398 min Scan# 714  
Delta R.T. -0.006 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE

Tgt Ion: 99 Resp: 714999  
Ion Ratio Lower Upper  
99 100  
42 22.5 17.9 26.9  
71 32.0 27.0 40.6

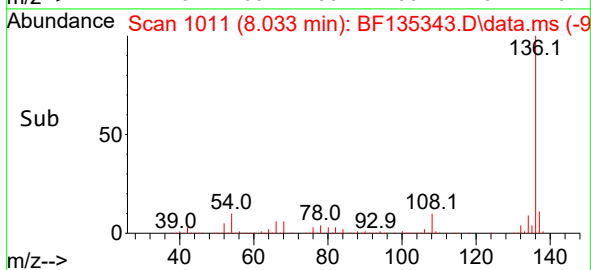
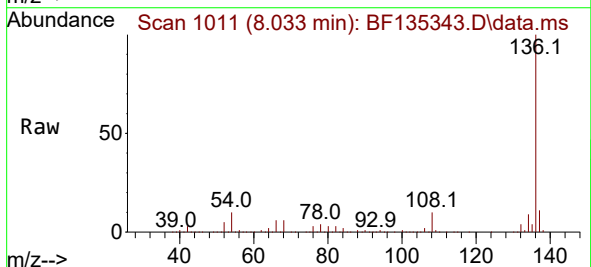
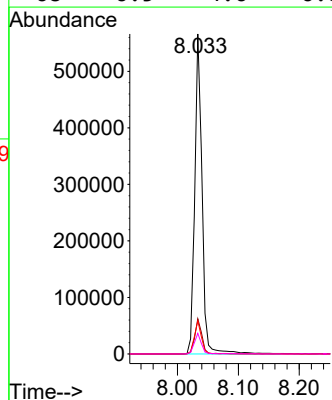
Manual Integrations  
APPROVED

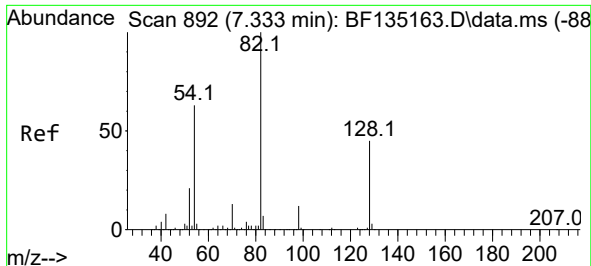
Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/20/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.033 min Scan# 1011  
Delta R.T. -0.012 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Tgt Ion:136 Resp: 474327  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.8 13.2  
54 10.3 7.7 11.5  
68 6.5 4.6 6.8





#23

Nitrobenzene-d5

Concen: 48.306 ng

RT: 7.322 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF135343.D

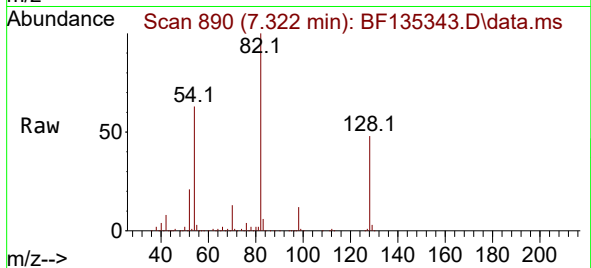
Acq: 19 Sep 2023 19:29

Instrument :

BNA\_F

ClientSampleId :

DEL-2-RIGHT-SIDE



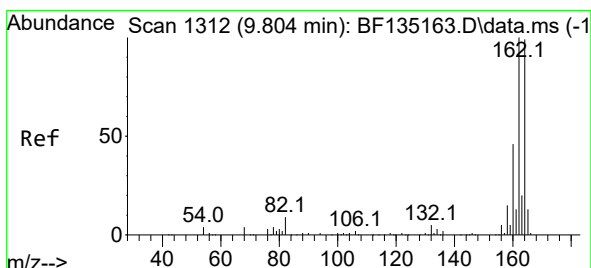
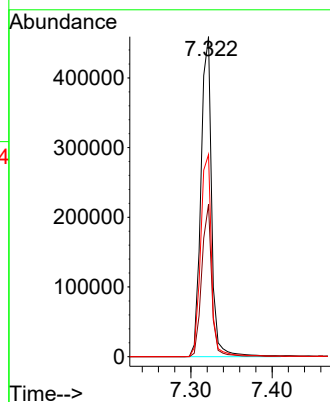
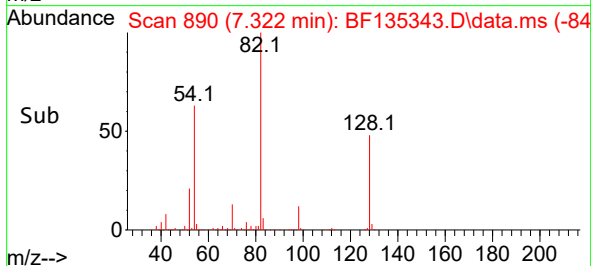
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 421735 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.6  | 35.8  | 53.6   |
| 54        | 63.2  | 50.6  | 76.0   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/20/2023

Supervised By :mohammad ahmed 09/20/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

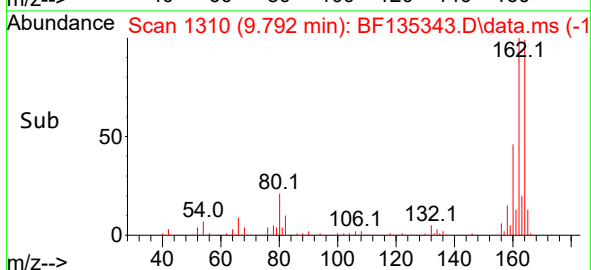
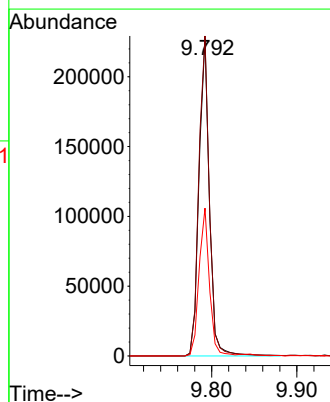
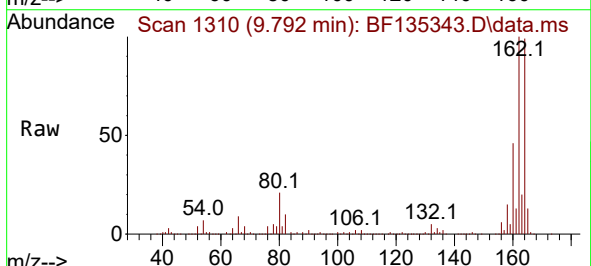
RT: 9.792 min Scan# 1310

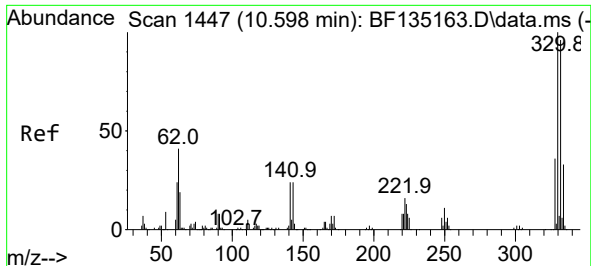
Delta R.T. -0.012 min

Lab File: BF135343.D

Acq: 19 Sep 2023 19:29

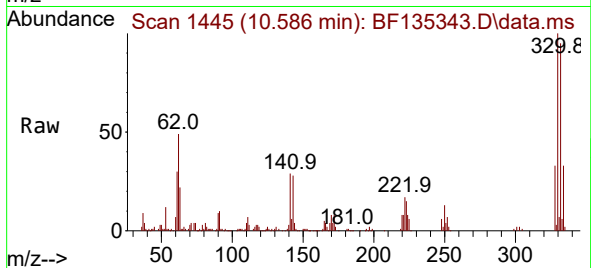
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 193684 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 100.8 | 81.0  | 121.4  |
| 160       | 46.6  | 37.0  | 55.4   |





#42  
2,4,6-Tribromophenol  
Concen: 52.205 ng  
RT: 10.586 min Scan# 1445  
Delta R.T. -0.012 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

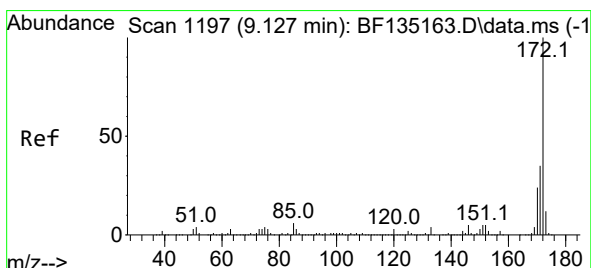
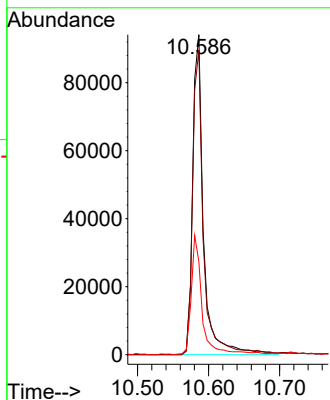
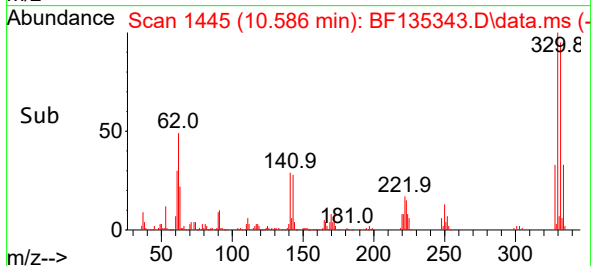
Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE



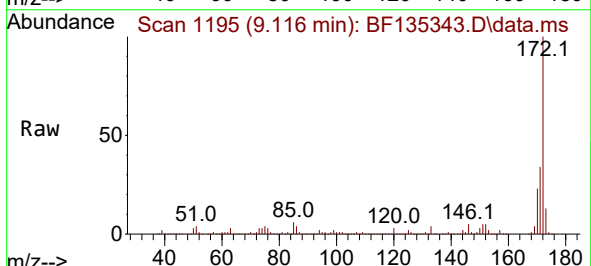
Tgt Ion: 330 Resp: 10048  
Ion Ratio Lower Upper  
330 100  
332 95.2 77.3 115.9  
141 37.6 25.8 38.8

Manual Integrations  
APPROVED

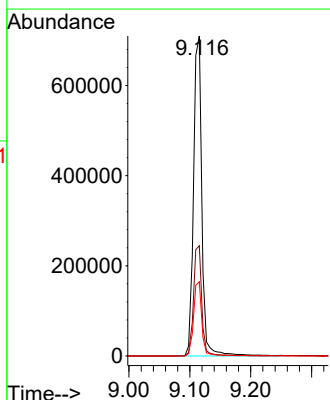
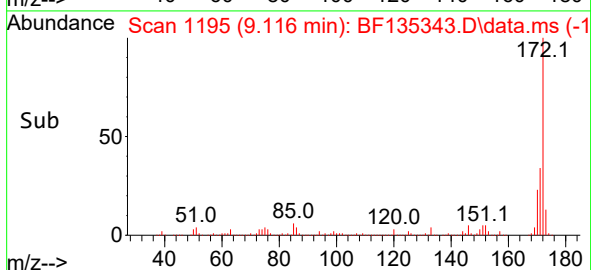
Reviewed By : Yogesh Patel 09/20/2023  
Supervised By : mohammad ahmed 09/20/2023

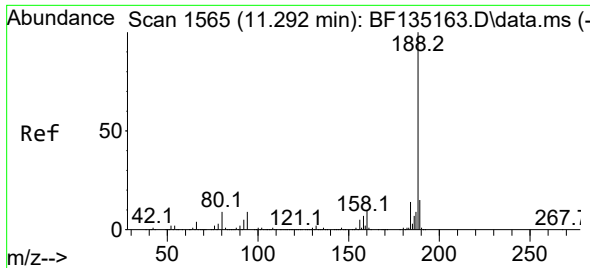


#45  
2-Fluorobiphenyl  
Concen: 52.875 ng  
RT: 9.116 min Scan# 1195  
Delta R.T. -0.012 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29



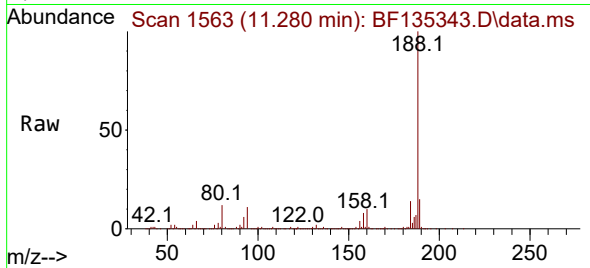
Tgt Ion: 172 Resp: 678785  
Ion Ratio Lower Upper  
172 100  
171 34.5 28.4 42.6  
170 23.2 19.0 28.4





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.280 min Scan# 1565  
Delta R.T. -0.012 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

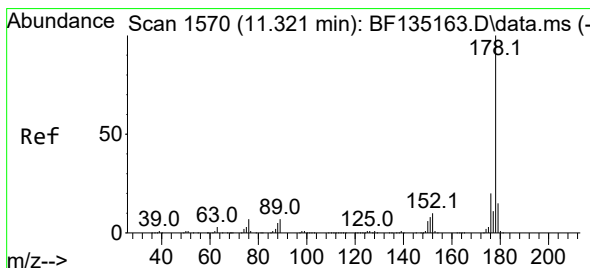
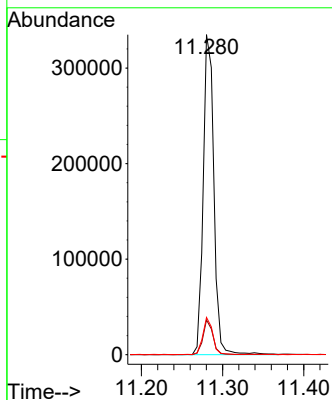
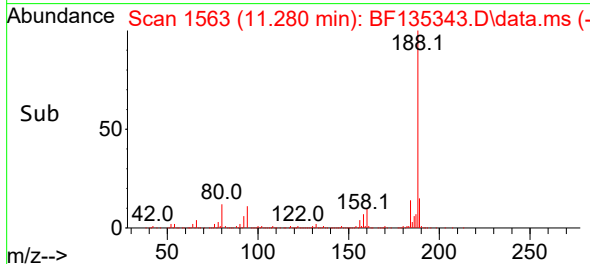
Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE



Tgt Ion:188 Resp: 304673  
Ion Ratio Lower Upper  
188 100  
94 10.9 7.0 10.6  
80 11.7 7.5 11.3

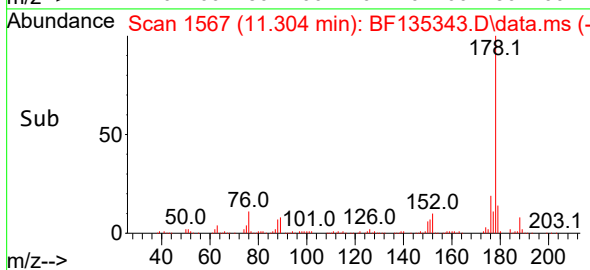
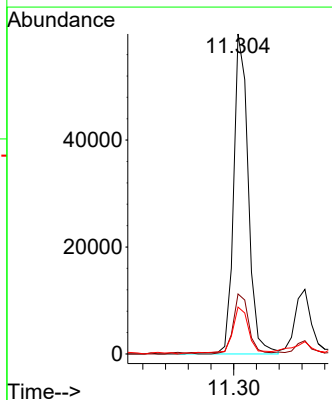
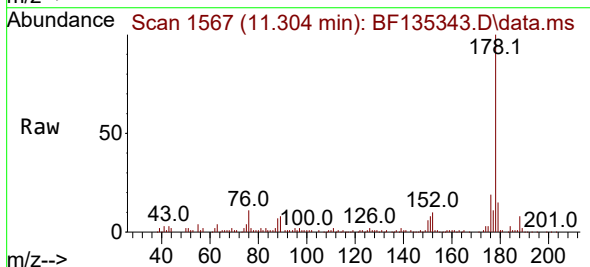
Manual Integrations  
APPROVED

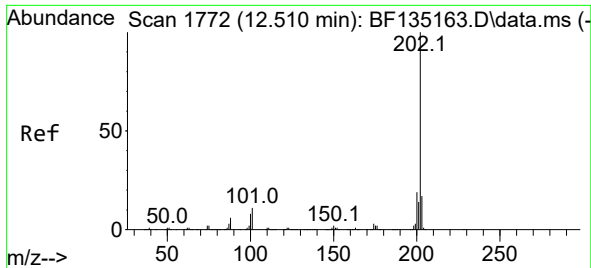
Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/20/2023



#71  
Phenanthrene  
Concen: 3.705 ng  
RT: 11.304 min Scan# 1567  
Delta R.T. -0.018 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

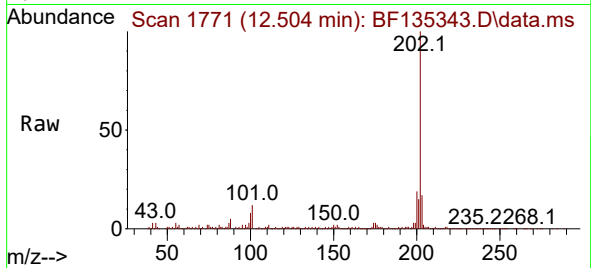
Tgt Ion:178 Resp: 53388  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.6 23.4  
179 14.7 12.0 18.0





#75  
Fluoranthene  
Concen: 8.706 ng  
RT: 12.504 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

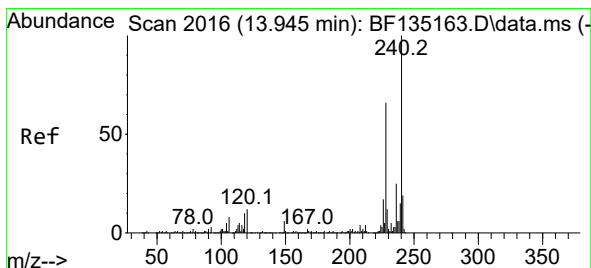
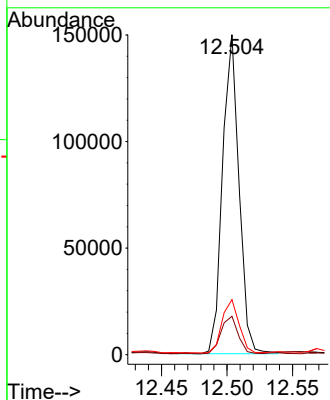
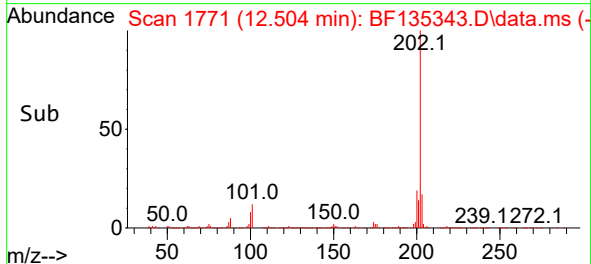
Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE



Tgt Ion:202 Resp: 130710  
Ion Ratio Lower Upper  
202 100  
101 12.0 0.0 31.3  
203 17.2 0.0 37.4

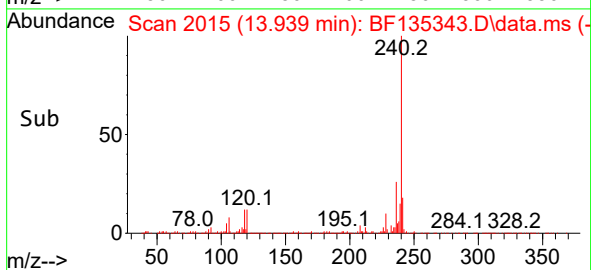
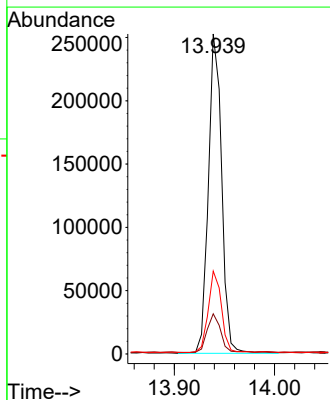
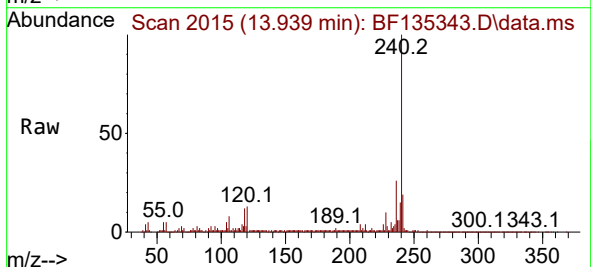
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/20/2023

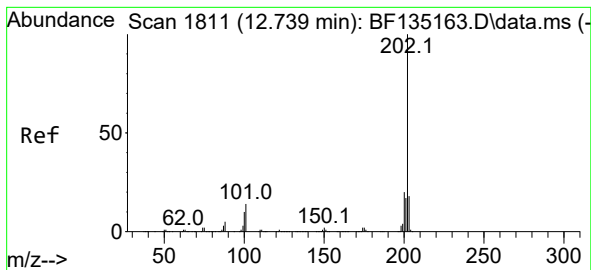


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.939 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Tgt Ion:240 Resp: 232702  
Ion Ratio Lower Upper  
240 100  
120 12.5 9.4 14.2  
236 25.9 19.8 29.8







#78

Pyrene

Concen: 6.236 ng

RT: 12.733 min Scan# 1811

Delta R.T. -0.006 min

Lab File: BF135343.D

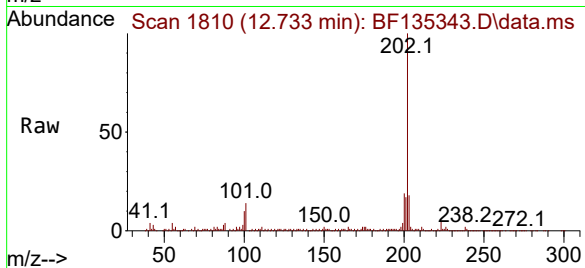
Acq: 19 Sep 2023 19:29

Instrument :

BNA\_F

ClientSampleId :

DEL-2-RIGHT-SIDE



Tgt Ion:202 Resp: 138150

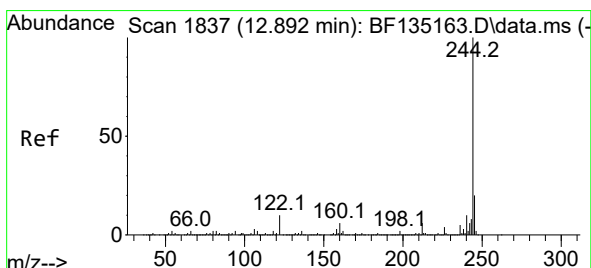
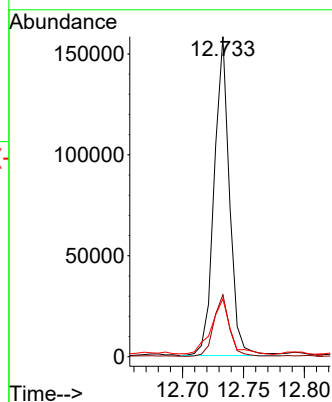
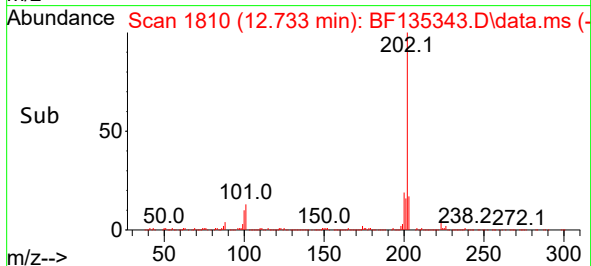
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 19.4  | 16.2  | 24.2  |
| 203 | 18.0  | 14.2  | 21.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/20/2023

Supervised By :mohammad ahmed 09/20/2023



#79

Terphenyl-d14

Concen: 33.622 ng

RT: 12.880 min Scan# 1835

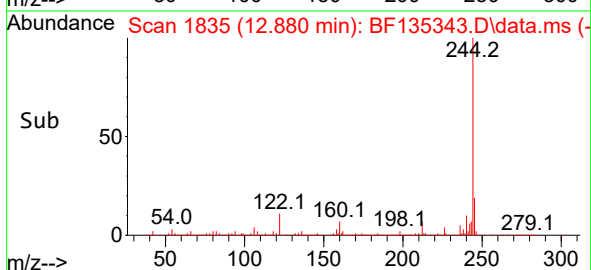
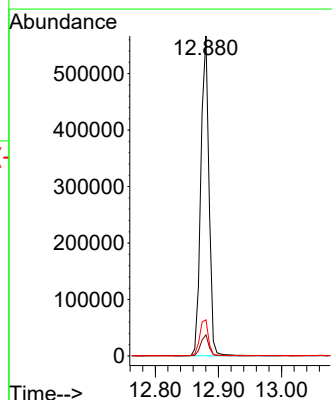
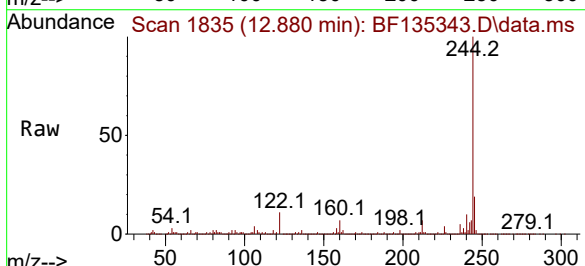
Delta R.T. -0.012 min

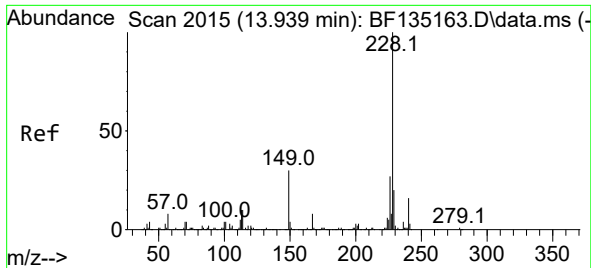
Lab File: BF135343.D

Acq: 19 Sep 2023 19:29

Tgt Ion:244 Resp: 504711

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.6   | 5.1   | 7.7   |
| 122 | 11.3  | 7.9   | 11.9  |





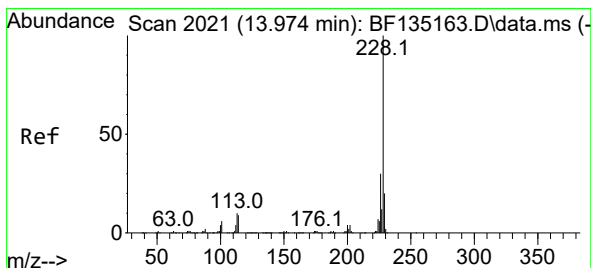
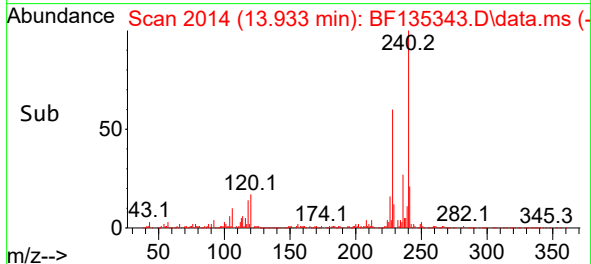
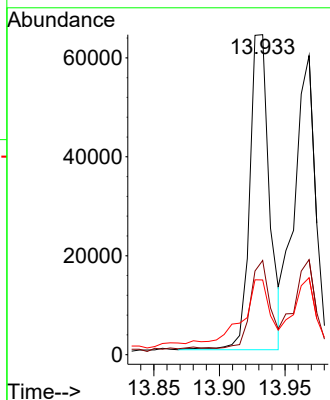
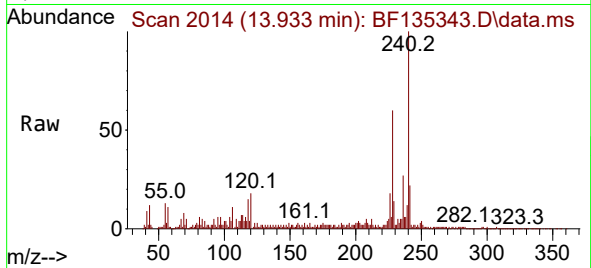
#81  
Benzo(a)anthracene  
Concen: 4.433 ng  
RT: 13.933 min Scan# 2014  
Delta R.T. -0.006 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE

Tgt Ion:228 Resp: 66610  
Ion Ratio Lower Upper  
228 100  
226 29.5 21.7 32.5  
229 23.3 15.8 23.8

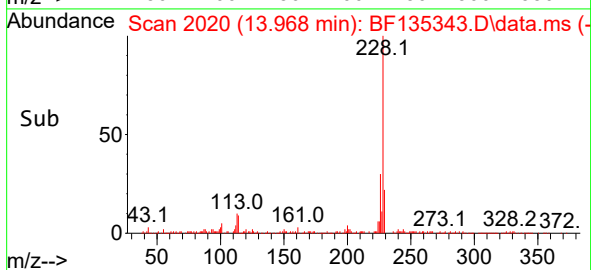
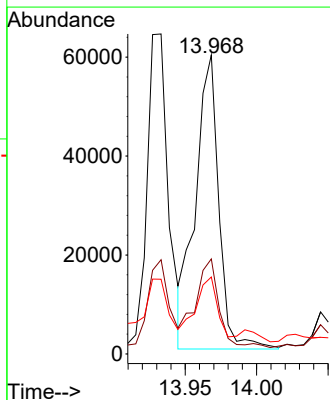
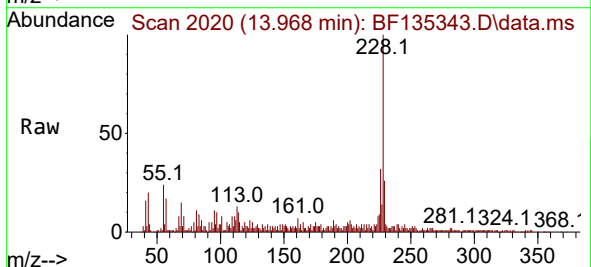
Manual Integrations  
APPROVED

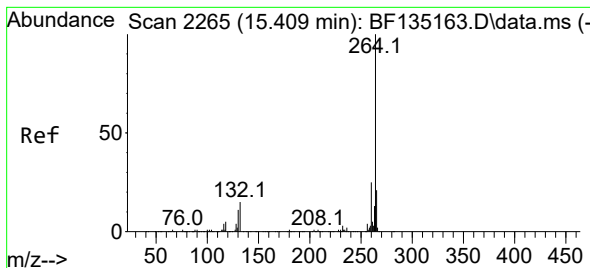
Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/20/2023



#83  
Chrysene  
Concen: 4.555 ng m  
RT: 13.968 min Scan# 2020  
Delta R.T. -0.006 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Tgt Ion:228 Resp: 68052  
Ion Ratio Lower Upper  
228 100  
226 31.8 24.3 36.5  
229 25.7 16.0 24.0#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.409 min Scan# 21785

Delta R.T. 0.000 min

Lab File: BF135343.D

Acq: 19 Sep 2023 19:29

Instrument :

BNA\_F

ClientSampleId :

DEL-2-RIGHT-SIDE

Tgt Ion:264 Resp: 21785

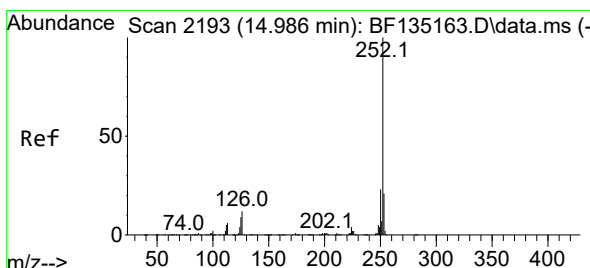
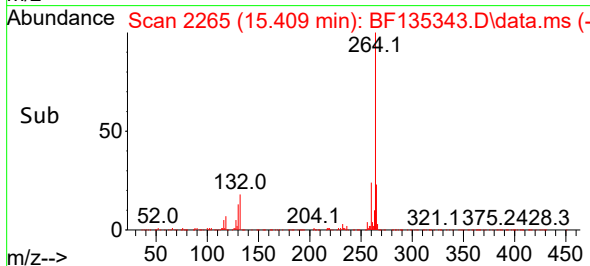
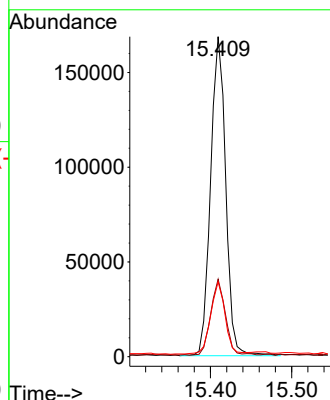
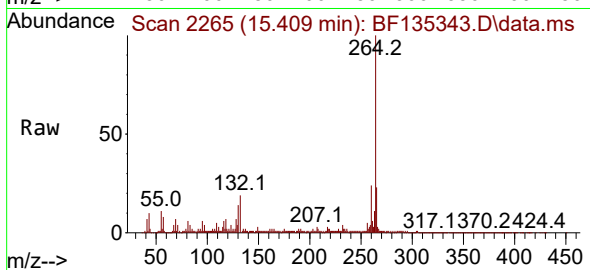
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.2  | 19.8  | 29.6  |
| 265 | 23.4  | 17.0  | 25.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/20/2023

Supervised By :mohammad ahmed 09/20/2023



#88

Benzo(b)fluoranthene

Concen: 6.418 ng m

RT: 14.986 min Scan# 2193

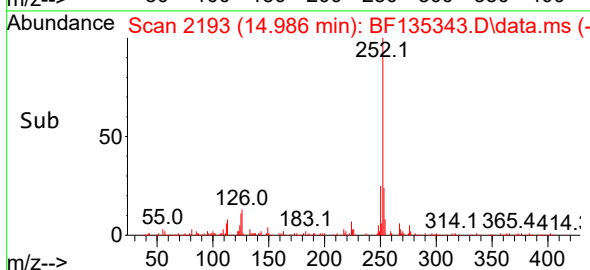
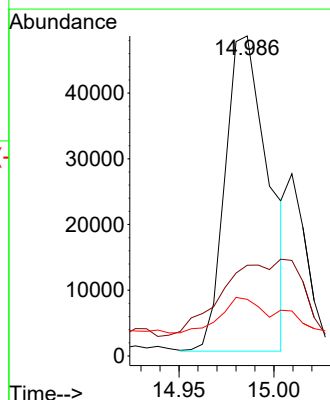
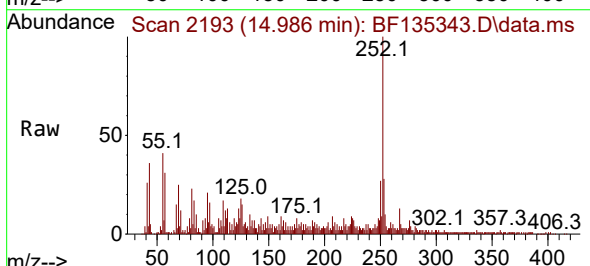
Delta R.T. 0.000 min

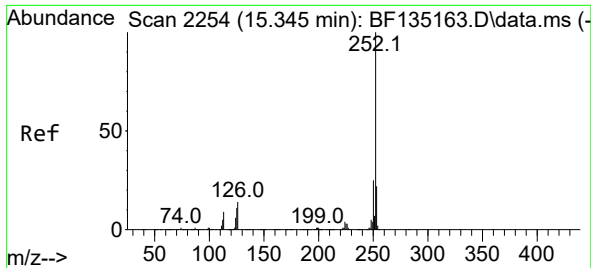
Lab File: BF135343.D

Acq: 19 Sep 2023 19:29

Tgt Ion:252 Resp: 75689

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 28.4  | 17.2  | 25.8# |
| 125 | 17.7  | 7.1   | 10.7# |





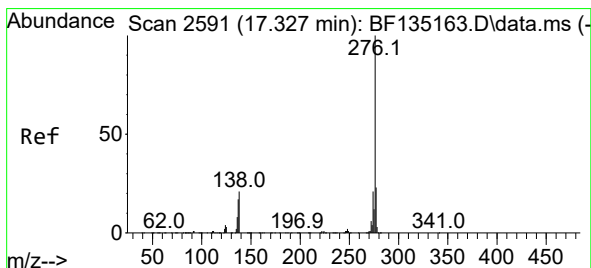
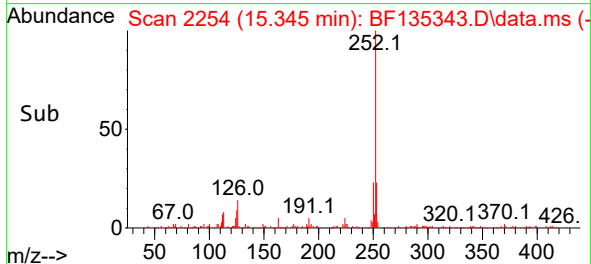
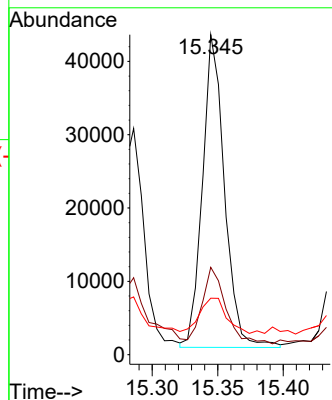
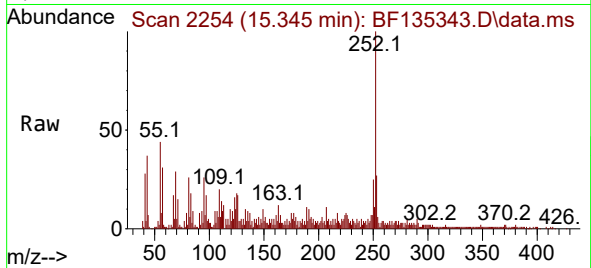
#90  
Benzo(a)pyrene  
Concen: 4.444 ng  
RT: 15.345 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Instrument :  
BNA\_F  
ClientSampleId :  
DEL-2-RIGHT-SIDE

Tgt Ion:252 Resp: 49978  
Ion Ratio Lower Upper  
252 100  
253 27.3 17.5 26.3  
125 17.7 9.2 13.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/20/2023



#92  
Benzo(g,h,i)perylene  
Concen: 2.173 ng  
RT: 17.339 min Scan# 2593  
Delta R.T. 0.012 min  
Lab File: BF135343.D  
Acq: 19 Sep 2023 19:29

Tgt Ion:276 Resp: 26518  
Ion Ratio Lower Upper  
276 100  
277 28.8 18.8 28.2  
138 25.1 16.9 25.3

