

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091824\  
 Data File : BF139426.D  
 Acq On : 18 Sep 2024 14:45  
 Operator : RC/JU  
 Sample : P4015-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-1-TANK17

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/19/2024  
 Supervised By :mohammad ahmed 09/20/2024

Quant Time: Sep 18 15:18:43 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091324.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 14 02:58:23 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.875  | 152  | 72138    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.157  | 136  | 274413   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.910  | 164  | 149302   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.392 | 188  | 247633   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.027 | 240  | 117181   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.498 | 264  | 135289   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.498  | 112  | 425778   | 96.286 | ng    | 0.00     |
| 7) Phenol-d6                | 6.504  | 99   | 565020   | 97.347 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.439  | 82   | 388327   | 66.527 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.698 | 330  | 141591   | 89.079 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.233  | 172  | 699947   | 65.752 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.980 | 244  | 460200   | 64.462 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.416 | 178  | 57111    | 4.780  | ng    | 99       |
| 75) Fluoranthene            | 12.604 | 202  | 79974    | 6.268  | ng    | 98       |
| 78) Pyrene                  | 12.833 | 202  | 58265    | 5.791  | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.021 | 228  | 34567    | 4.453  | ng    | 96       |
| 83) Chrysene                | 14.051 | 228  | 23524    | 3.294  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 15.068 | 252  | 36718m   | 4.401  | ng    |          |
| 90) Benzo(a)pyrene          | 15.433 | 252  | 24361    | 3.520  | ng    | # 95     |
| -----                       |        |      |          |        |       |          |

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

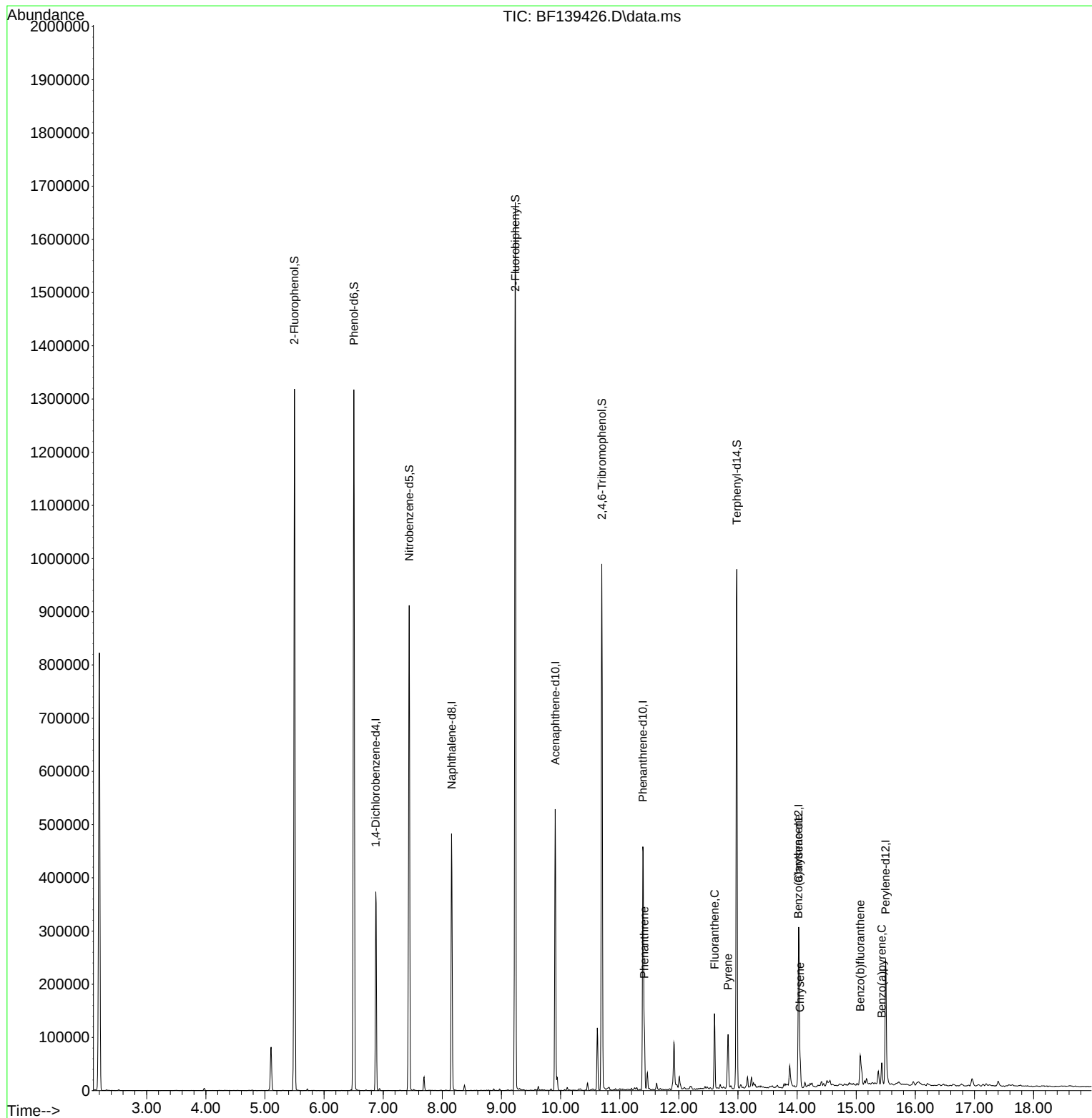
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091824\  
Data File : BF139426.D  
Acq On : 18 Sep 2024 14:45  
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Quant Time: Sep 18 15:18:43 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091324.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 14 02:58:23 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

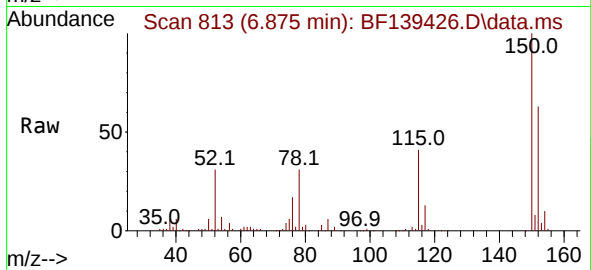
Reviewed By :Yogesh Patel 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

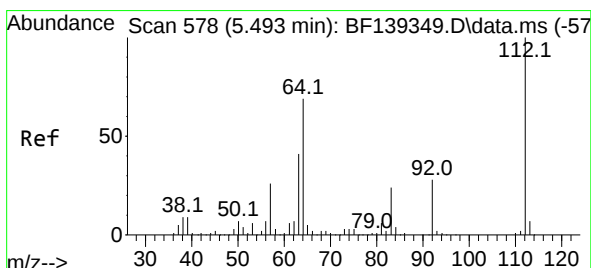
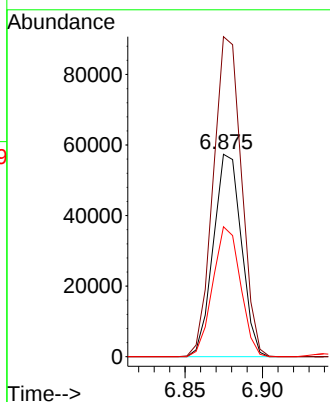
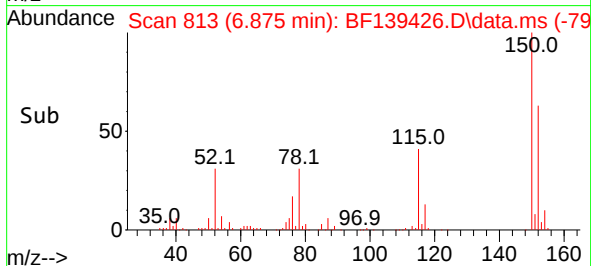
Instrument :  
BNA\_F  
ClientSampleId :  
B-1-TANK17



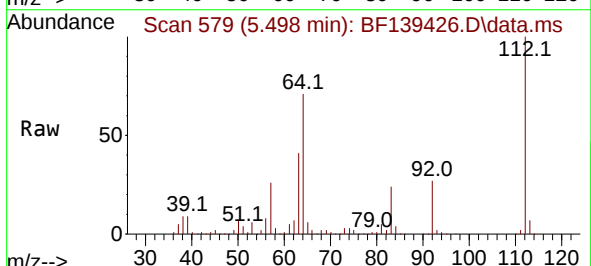
Tgt Ion:152 Resp: 72138  
Ion Ratio Lower Upper  
152 100  
150 158.2 124.1 186.1  
115 64.3 48.1 72.1

Manual Integrations  
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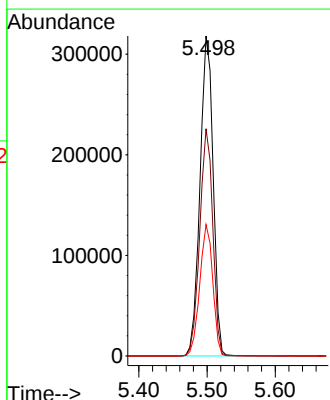
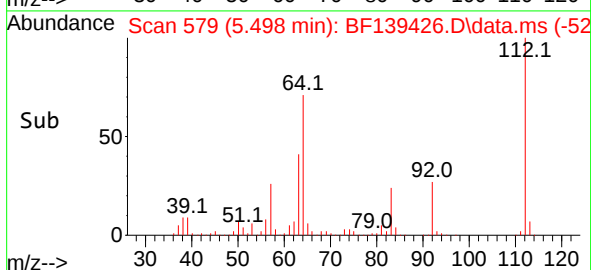
Reviewed By :Yogesh Patel 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#5  
2-Fluorophenol  
Concen: 96.286 ng  
RT: 5.498 min Scan# 579  
Delta R.T. 0.005 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45



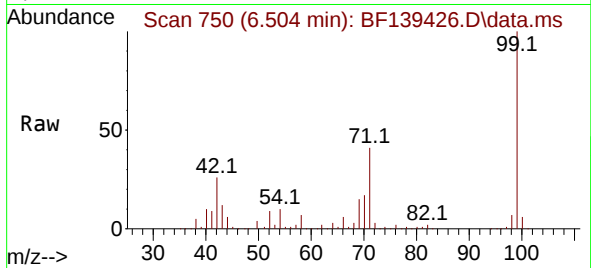
Tgt Ion:112 Resp: 425778  
Ion Ratio Lower Upper  
112 100  
64 71.0 54.8 82.2  
63 41.1 33.0 49.4





#7  
Phenol-d6  
Concen: 97.347 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

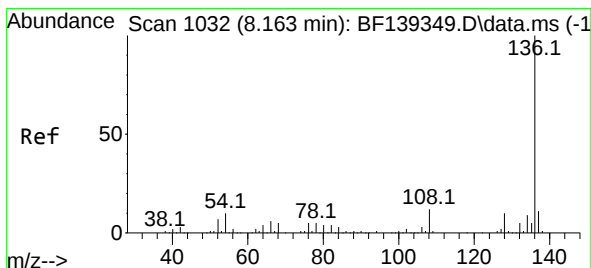
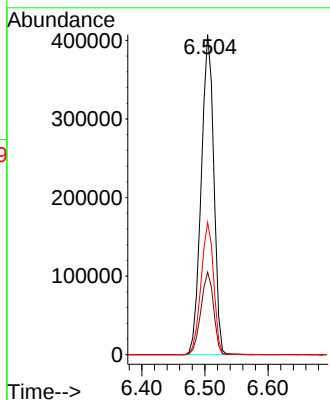
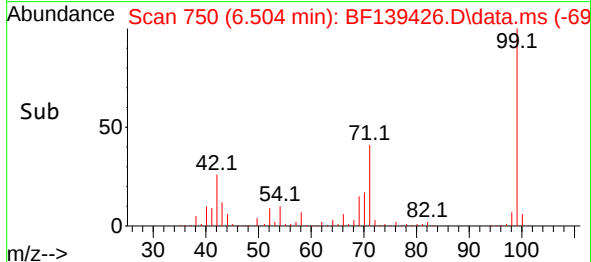
Instrument :  
BNA\_F  
ClientSampleId :  
B-1-TANK17



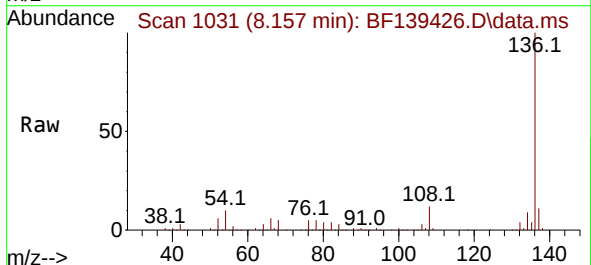
Tgt Ion: 99 Resp: 565020  
Ion Ratio Lower Upper  
99 100  
42 25.8 21.9 32.9  
71 41.3 34.6 52.0

Manual Integrations  
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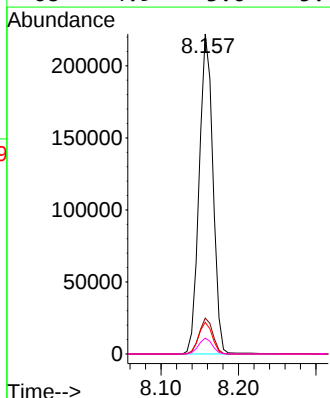
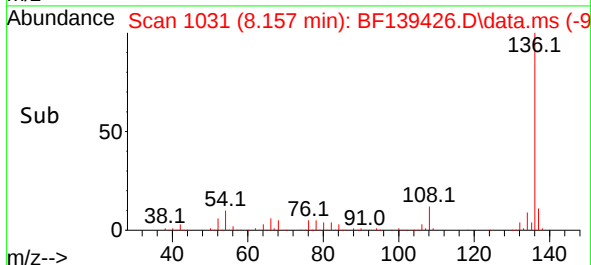
Reviewed By :Yogesh Patel 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45



Tgt Ion:136 Resp: 274413  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.6 12.8  
54 9.9 7.8 11.8  
68 4.9 3.6 5.4





#23

Nitrobenzene-d5

Concen: 66.527 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

Instrument :

BNA\_F

ClientSampleId :

B-1-TANK17

Tgt Ion: 82 Resp: 38832

Ion Ratio Lower Upper

82 100

128 39.6 31.8 47.6

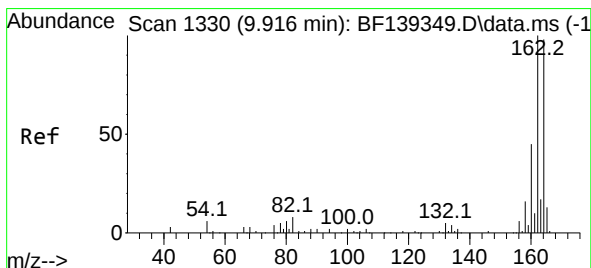
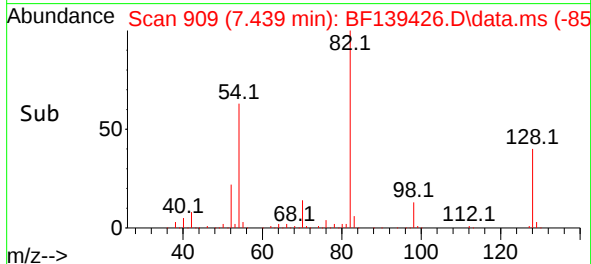
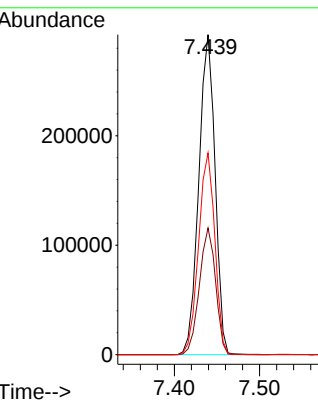
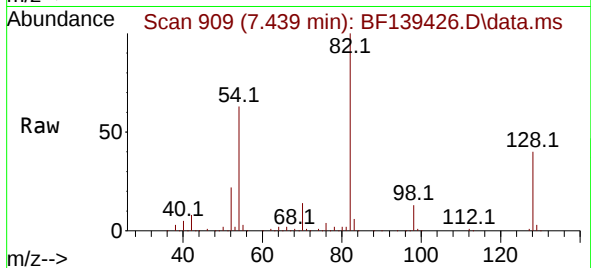
54 63.0 50.6 75.8

Manual Integrations

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Reviewed By :Yogesh Patel 09/19/2024

Supervised By :mohammad ahmed 09/20/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1329

Delta R.T. -0.006 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

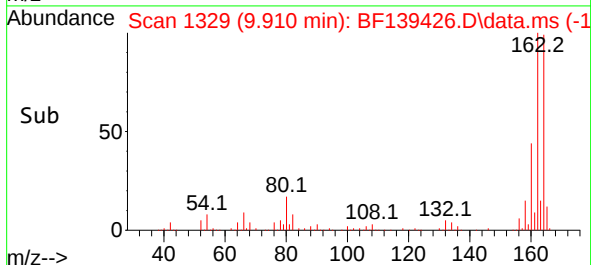
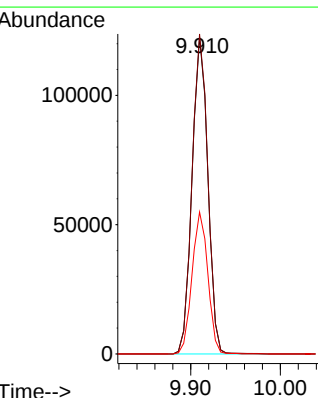
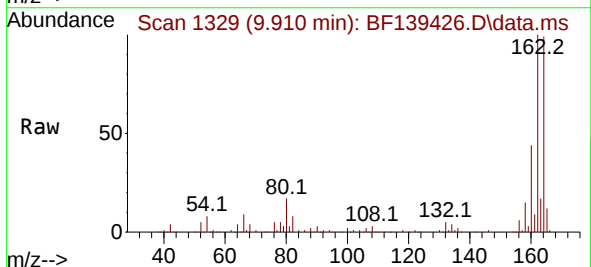
Tgt Ion:164 Resp: 149302

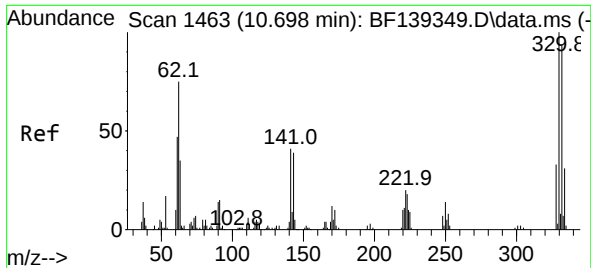
Ion Ratio Lower Upper

164 100

162 100.9 81.3 121.9

160 44.7 36.4 54.6





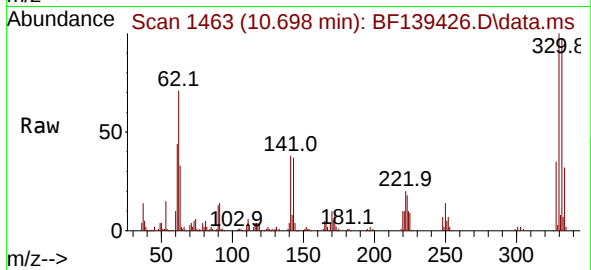
#42  
2,4,6-Tribromophenol  
Concen: 89.079 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.000 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

Instrument :

BNA\_F

ClientSampleId :

B-1-TANK17



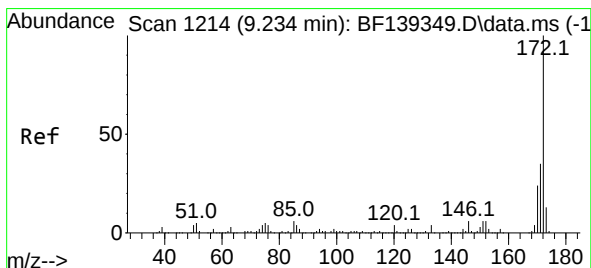
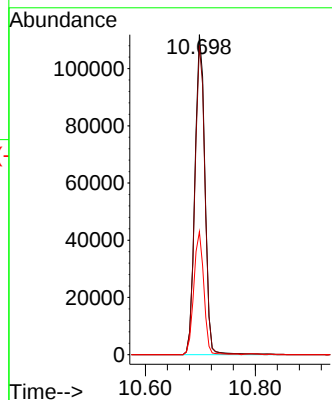
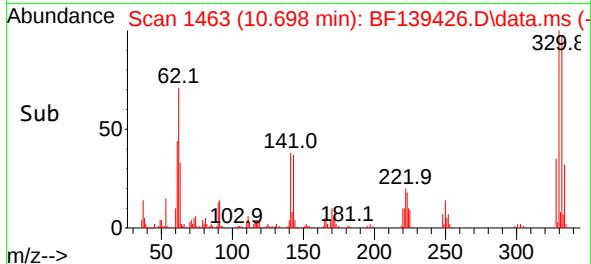
Tgt Ion: 330 Resp: 14159  
Ion Ratio Lower Upper  
330 100  
332 96.9 75.2 112.8  
141 38.3 31.2 46.8

Manual Integrations

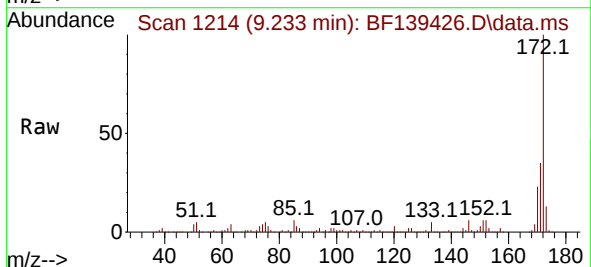
APPROVED

Reviewed By : Yogesh Patel 09/19/2024

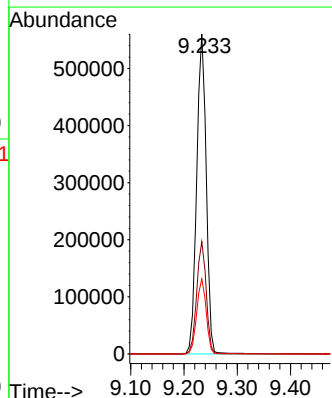
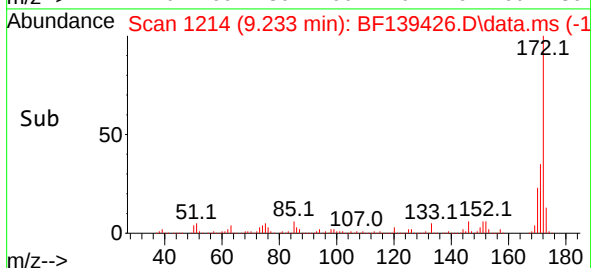
Supervised By : mohammad ahmed 09/20/2024



#45  
2-Fluorobiphenyl  
Concen: 65.752 ng  
RT: 9.233 min Scan# 1214  
Delta R.T. -0.000 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45



Tgt Ion: 172 Resp: 699947  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.3 42.5  
170 23.5 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1581

Delta R.T. -0.006 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

Instrument :

BNA\_F

ClientSampleId :

B-1-TANK17

Tgt Ion:188 Resp: 24763

Ion Ratio Lower Upper

188 100

94 8.1 5.5 8.3

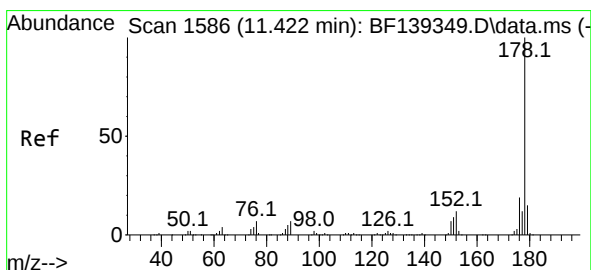
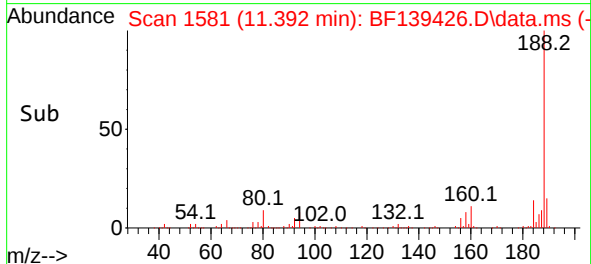
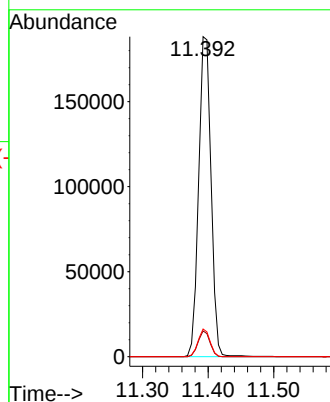
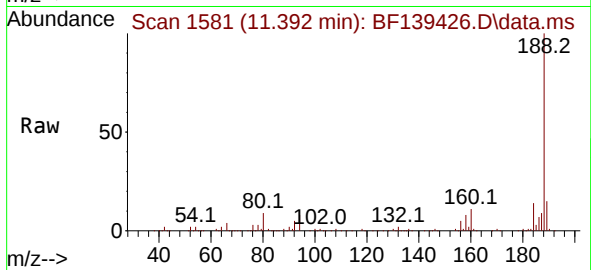
80 8.7 6.6 9.8

Manual Integrations

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Reviewed By :Yogesh Patel 09/19/2024

Supervised By :mohammad ahmed 09/20/2024



#71

Phenanthrene

Concen: 4.780 ng

RT: 11.416 min Scan# 1585

Delta R.T. -0.006 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

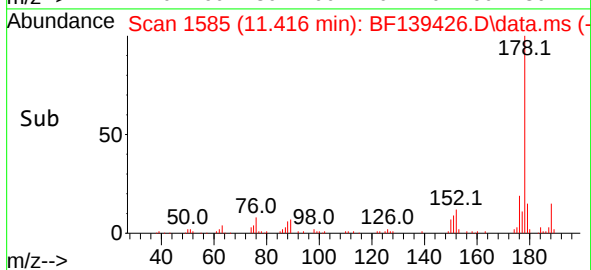
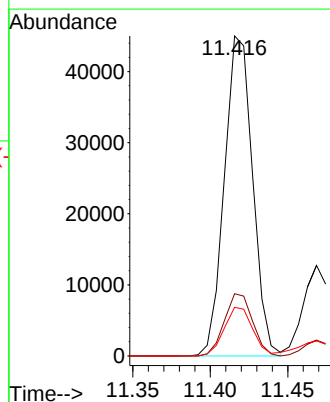
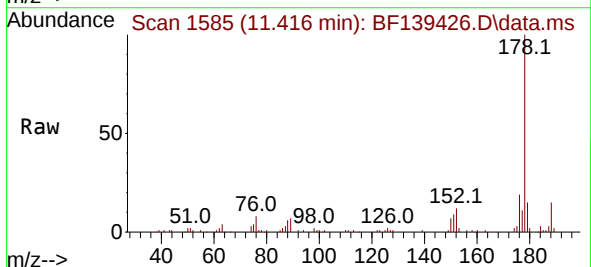
Tgt Ion:178 Resp: 57111

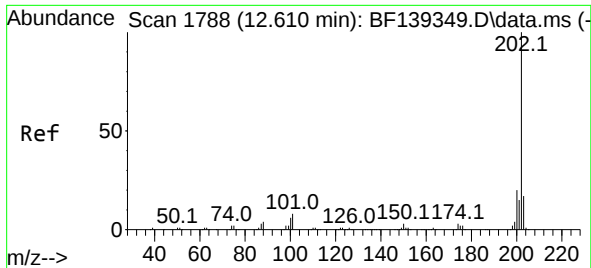
Ion Ratio Lower Upper

178 100

176 19.5 15.2 22.8

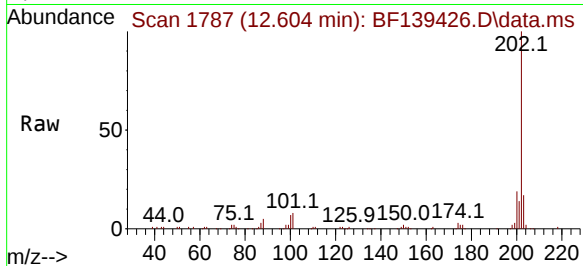
179 15.2 12.2 18.4





#75  
Fluoranthene  
Concen: 6.268 ng  
RT: 12.604 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

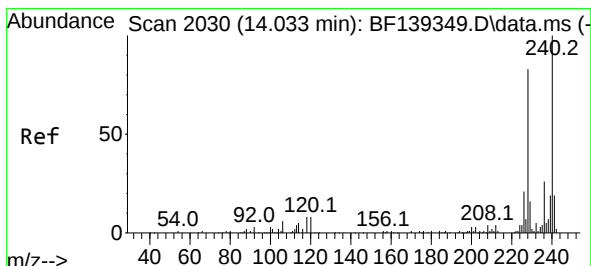
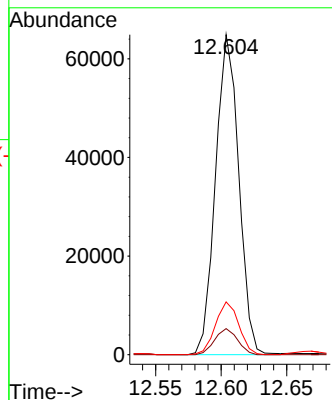
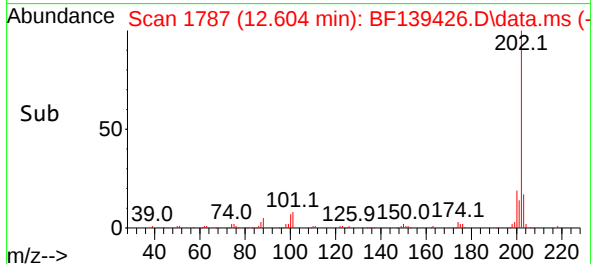
Instrument :  
BNA\_F  
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Tgt Ion:202 Resp: 79974  
Ion Ratio Lower Upper  
202 100  
101 8.1 0.0 27.7  
203 16.5 0.0 37.4

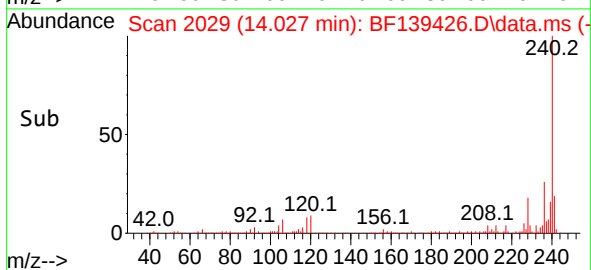
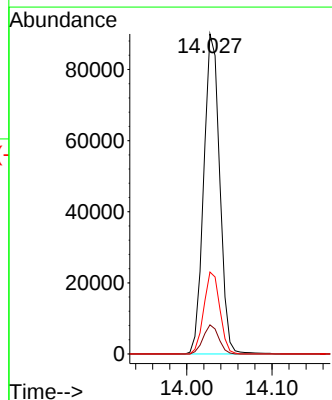
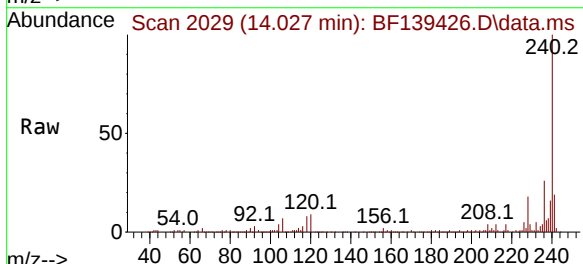
Manual Integrations  
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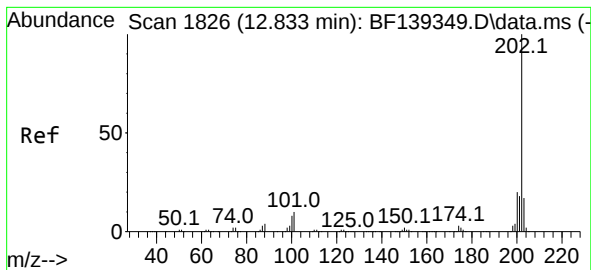
Reviewed By :Yogesh Patel 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.027 min Scan# 2029  
Delta R.T. -0.006 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

Tgt Ion:240 Resp: 117181  
Ion Ratio Lower Upper  
240 100  
120 9.1 6.2 9.2  
236 25.6 20.9 31.3





#78

Pyrene

Concen: 5.791 ng

RT: 12.833 min Scan# 1826

Delta R.T. -0.000 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

Instrument :

BNA\_F

ClientSampleId :

B-1-TANK17

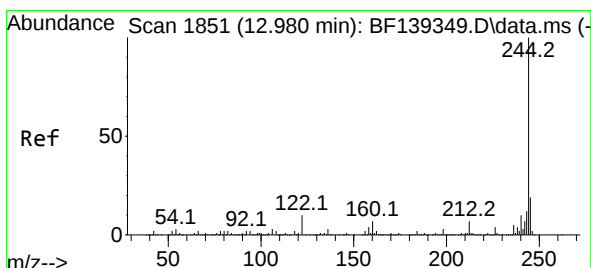
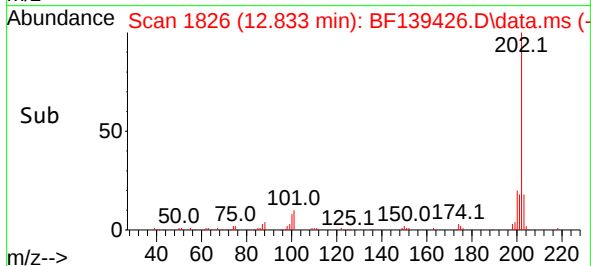
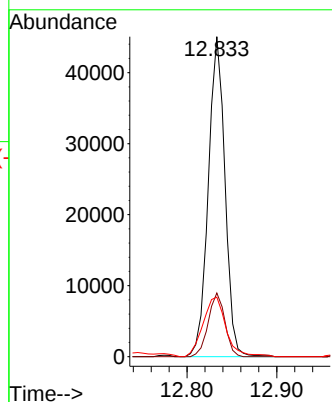
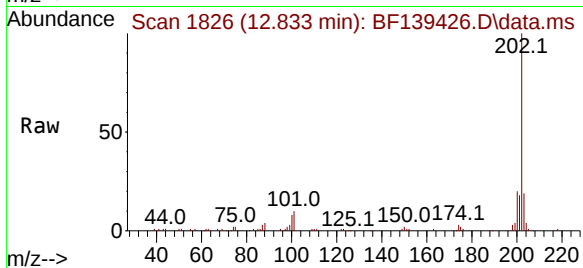
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5826 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 19.9  | 16.2  | 24.2 |
| 203       | 18.6  | 13.9  | 20.9 |

Manual Integrations

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Reviewed By :Yogesh Patel 09/19/2024

Supervised By :mohammad ahmed 09/20/2024



#79

Terphenyl-d14

Concen: 64.462 ng

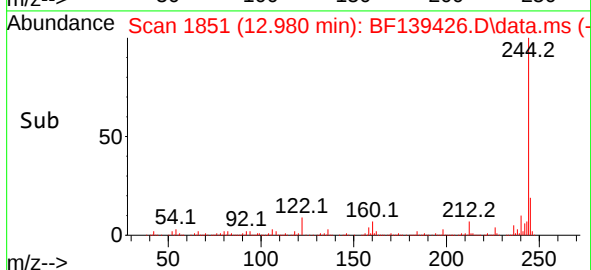
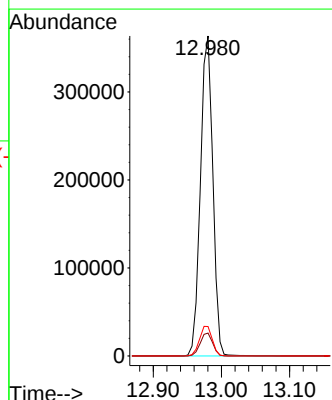
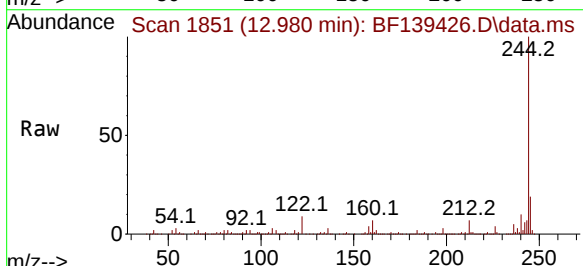
RT: 12.980 min Scan# 1851

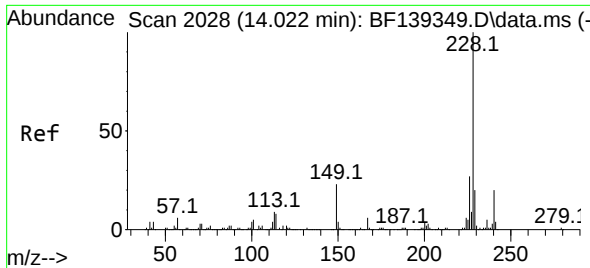
Delta R.T. -0.000 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 460200 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.2   | 6.0   | 9.0    |
| 122       | 9.2   | 7.6   | 11.4   |





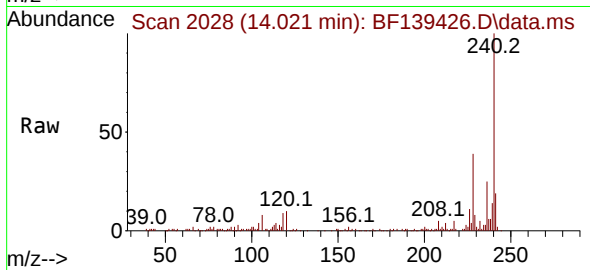
#81  
Benzo(a)anthracene  
Concen: 4.453 ng  
RT: 14.021 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

Instrument :

BNA\_F

ClientSampleId :

B-1-TANK17

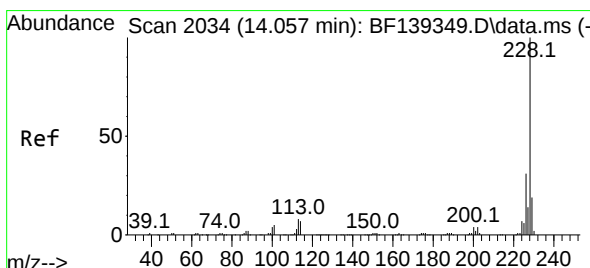
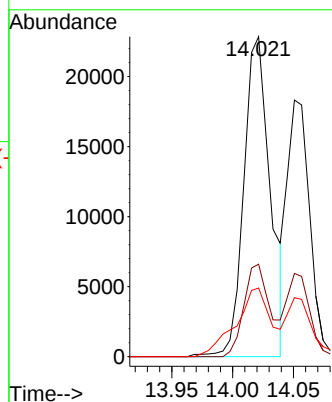
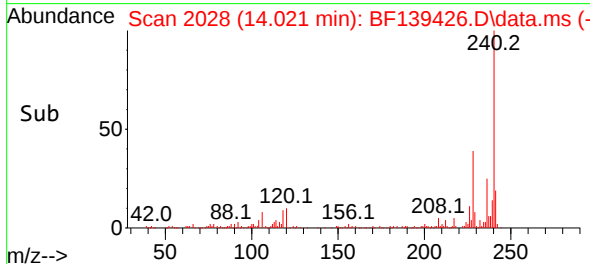


Tgt Ion:228 Resp: 3456  
Ion Ratio Lower Upper  
228 100  
226 28.9 21.6 32.4  
229 21.5 15.7 23.5

Manual Integrations

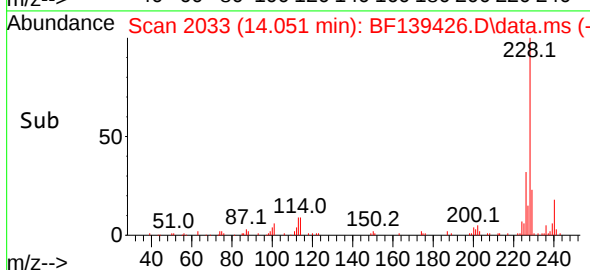
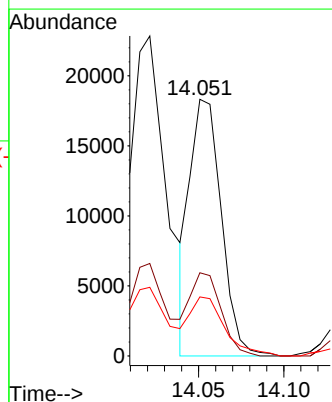
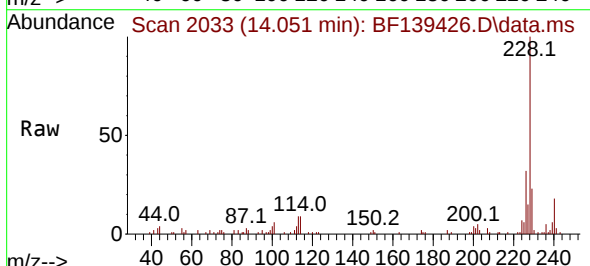
APPROVED

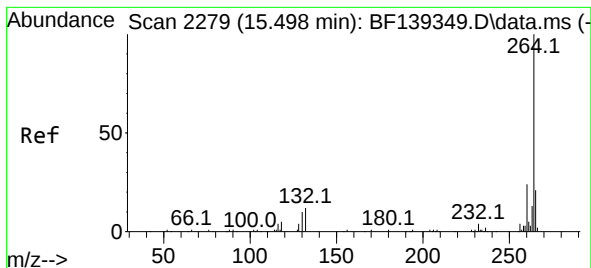
Reviewed By :Yogesh Patel 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#83  
Chrysene  
Concen: 3.294 ng  
RT: 14.051 min Scan# 2033  
Delta R.T. -0.006 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

Tgt Ion:228 Resp: 23524  
Ion Ratio Lower Upper  
228 100  
226 32.4 24.1 36.1  
229 23.0 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 2279

Delta R.T. -0.000 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

Instrument :

BNA\_F

ClientSampleId :

B-1-TANK17

Tgt Ion:264 Resp: 135289

Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

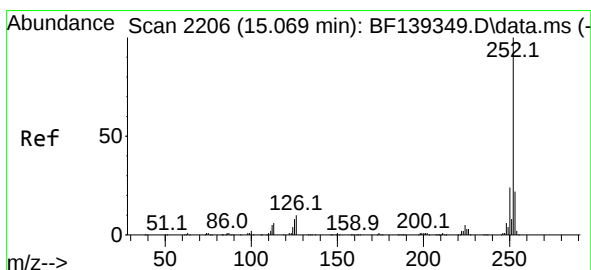
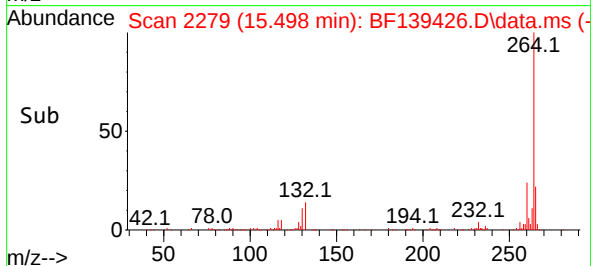
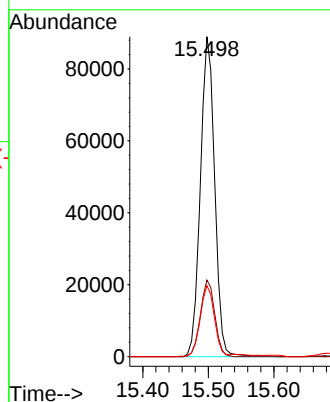
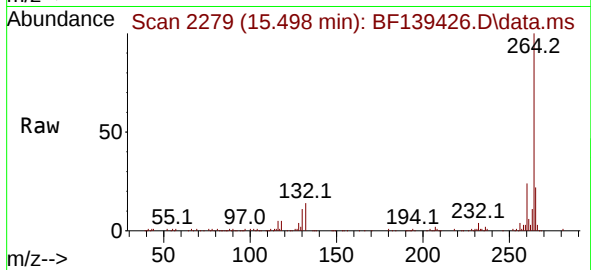
265 22.2 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/19/2024

Supervised By :mohammad ahmed 09/20/2024



#88

Benzo(b)fluoranthene

Concen: 4.401 ng m

RT: 15.068 min Scan# 2206

Delta R.T. -0.000 min

Lab File: BF139426.D

Acq: 18 Sep 2024 14:45

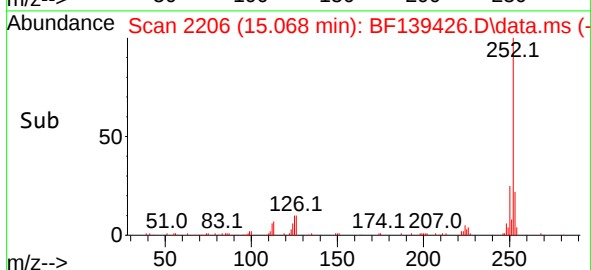
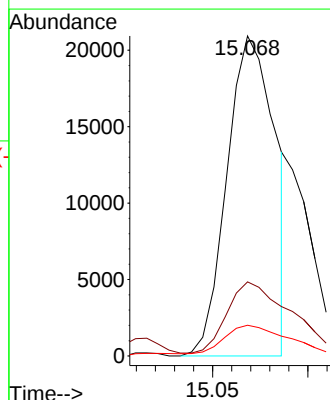
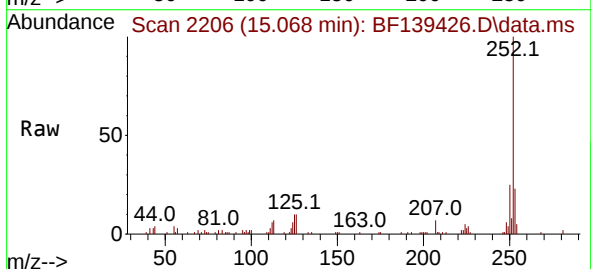
Tgt Ion:252 Resp: 36718

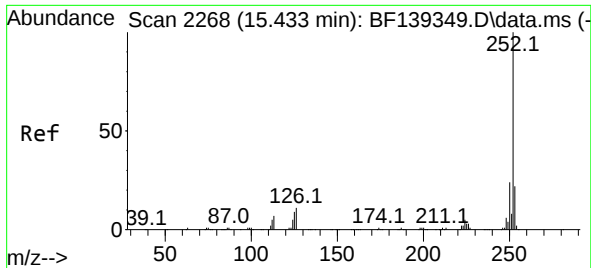
Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

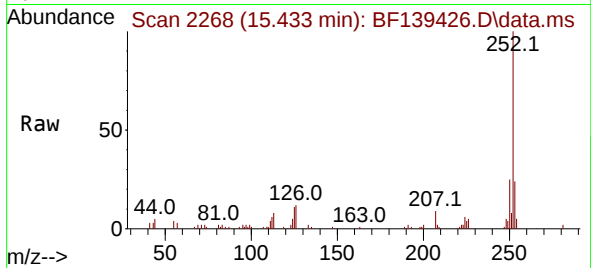
125 9.6 6.2 9.2#





#90  
Benzo(a)pyrene  
Concen: 3.520 ng  
RT: 15.433 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF139426.D  
Acq: 18 Sep 2024 14:45

Instrument :  
BNA\_F  
ClientSampleId :  
B-1-TANK17



Tgt Ion:252 Resp: 2436  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.3 25.9  
125 10.5 6.8 10.2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024

