

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122922\  
 Data File : BF131885.D  
 Acq On : 29 Dec 2022 18:55  
 Operator : CG\JU  
 Sample : N6228-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4

Quant Time: Dec 30 02:11:48 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 30 02:06:40 2022  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By :Jagrut Upadhyay 12/30/2022  
 Supervised By :Yogesh Patel 12/30/2022

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.816  | 152  | 66160    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.104  | 136  | 225614   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.869  | 164  | 107140   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.357 | 188  | 165249   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 14.016 | 240  | 119436   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.492 | 264  | 98555    | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.428  | 112  | 393571   | 98.584 | ng    | 0.00     |
| 7) Phenol-d6                | 6.451  | 99   | 500529   | 95.429 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.387  | 82   | 362155   | 64.089 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.663 | 330  | 96894    | 83.237 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.186  | 172  | 535539   | 68.466 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.951 | 244  | 420072   | 59.493 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.380 | 178  | 102284   | 11.256 | ng    | 100      |
| 72) Anthracene              | 11.433 | 178  | 24634    | 2.771  | ng    | 97       |
| 75) Fluoranthene            | 12.580 | 202  | 158878   | 15.010 | ng    | 98       |
| 78) Pyrene                  | 12.810 | 202  | 166040   | 16.586 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.004 | 228  | 92281    | 10.672 | ng    | 97       |
| 83) Chrysene                | 14.039 | 228  | 85866    | 10.567 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.974 | 276  | 26812    | 4.282  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.057 | 252  | 83431m   | 11.545 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.086 | 252  | 21350m   | 3.058  | ng    |          |
| 90) Benzo(a)pyrene          | 15.427 | 252  | 55865    | 9.985  | ng    | # 93     |
| 92) Benzo(g,h,i)perylene    | 17.421 | 276  | 25840    | 9.041  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

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

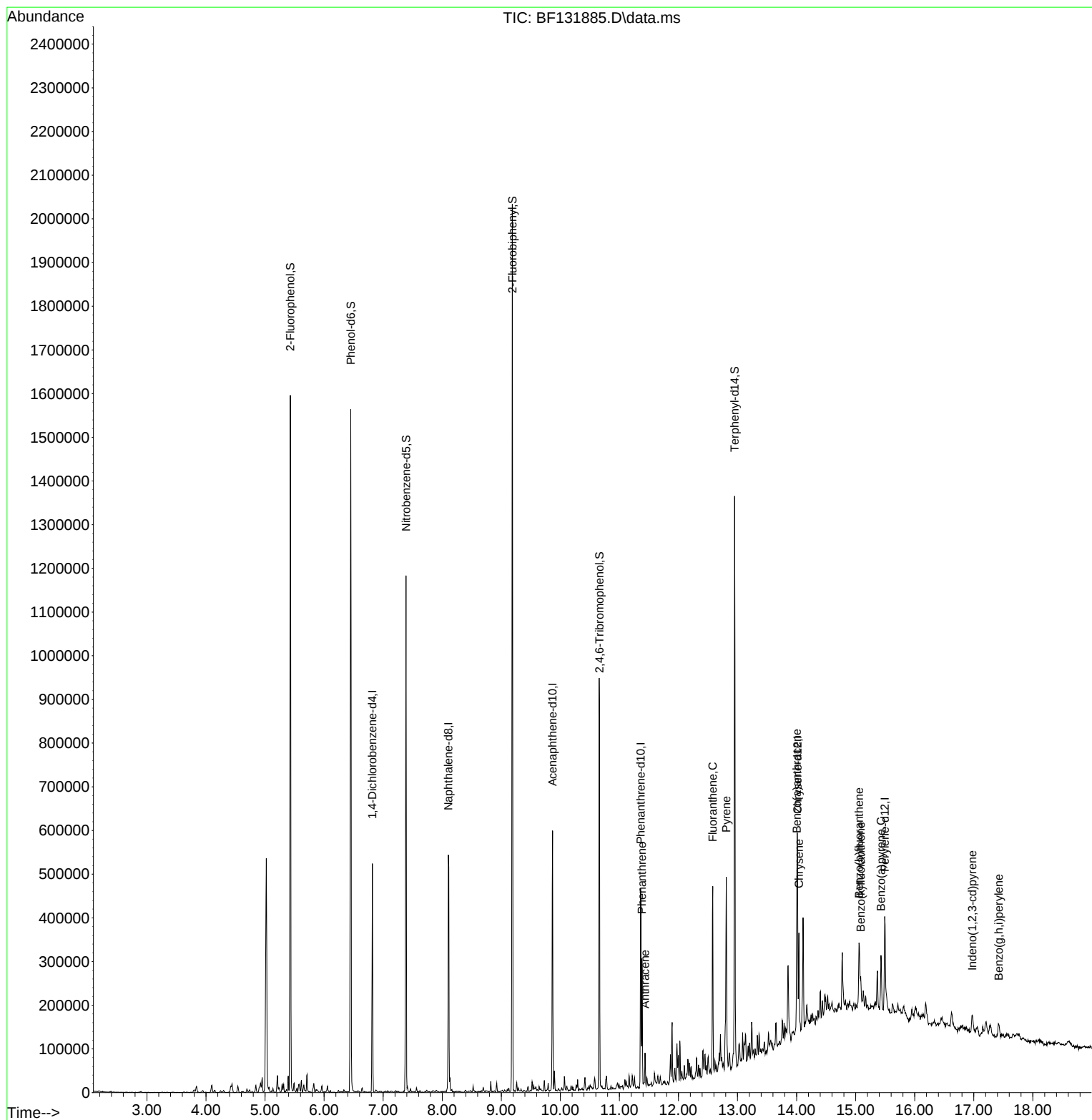
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122922\  
Data File : BF131885.D  
Acq On : 29 Dec 2022 18:55  
Operator : CG\JU  
Sample : N6228-10  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

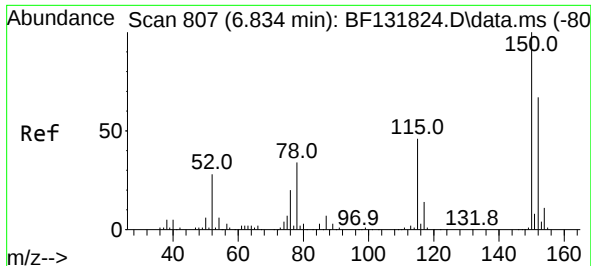
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Quant Time: Dec 30 02:11:48 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 30 02:06:40 2022  
Response via : Initial Calibration

Manual Integrations  
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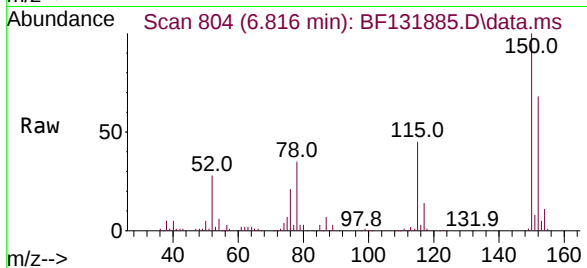
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.816 min Scan# 807  
Delta R.T. 0.000 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

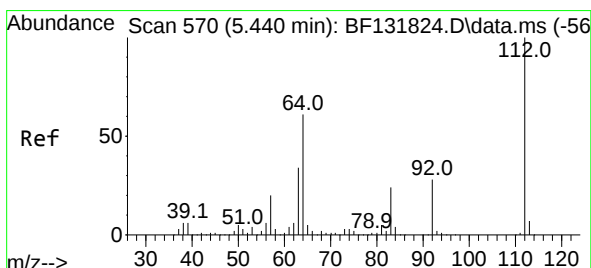
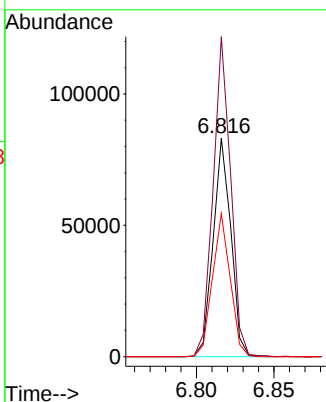
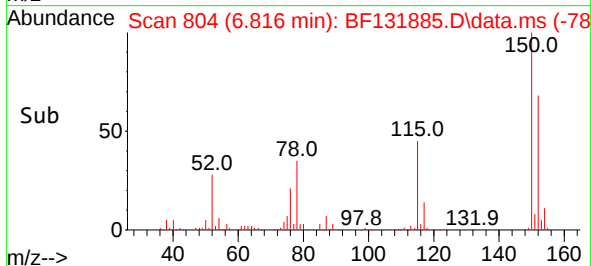
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4



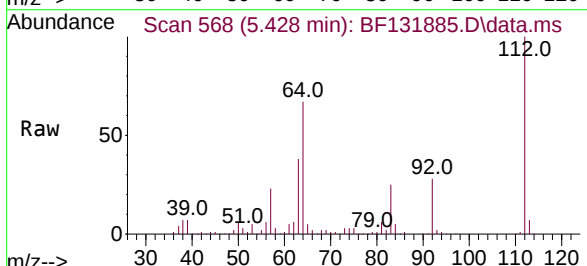
Tgt Ion:152 Resp: 66160  
Ion Ratio Lower Upper  
152 100  
150 146.5 120.0 180.0  
115 65.4 55.1 82.7

Manual Integrations  
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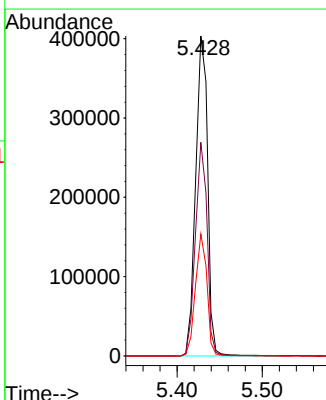
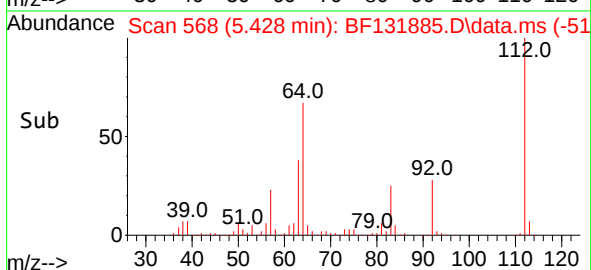
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022

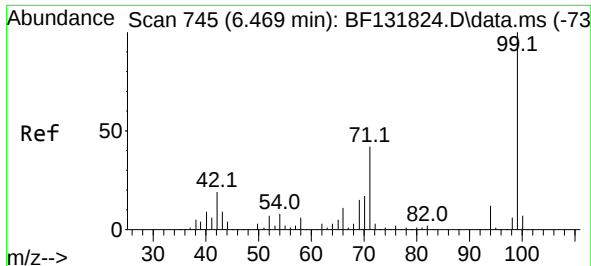


#5  
2-Fluorophenol  
Concen: 98.584 ng  
RT: 5.428 min Scan# 568  
Delta R.T. 0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55



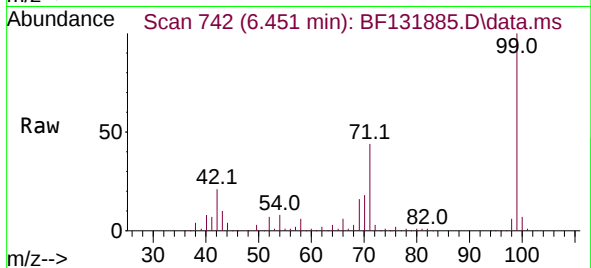
Tgt Ion:112 Resp: 393571  
Ion Ratio Lower Upper  
112 100  
64 66.7 49.2 73.8  
63 38.1 27.5 41.3





#7  
Phenol-d6  
Concen: 95.429 ng  
RT: 6.451 min Scan# 745  
Delta R.T. -0.000 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

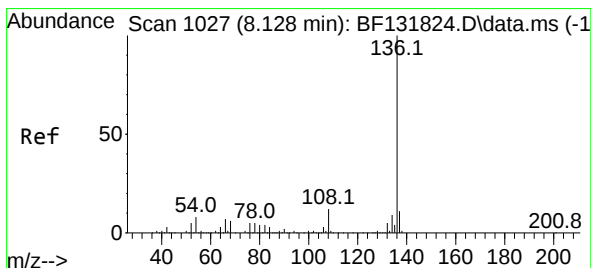
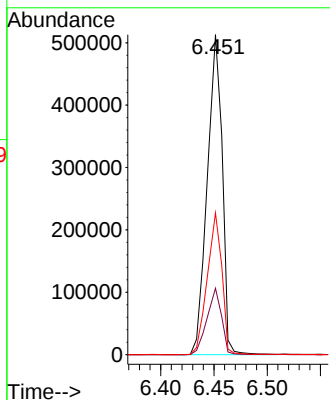
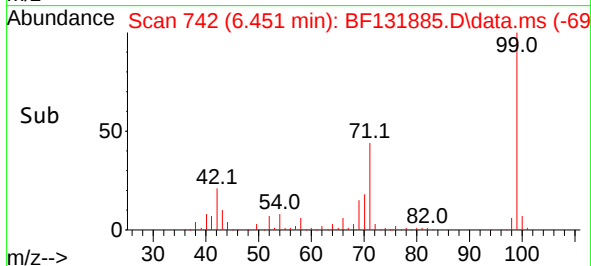
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4



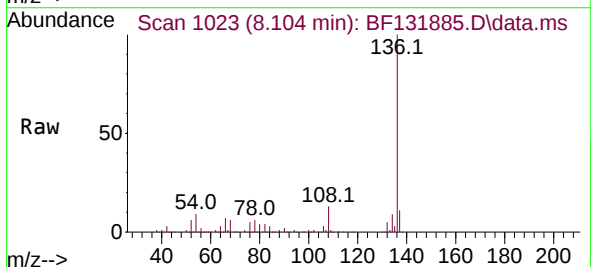
Tgt Ion: 99 Resp: 500529  
Ion Ratio Lower Upper  
99 100  
42 20.7 15.3 22.9  
71 44.3 33.5 50.3

Manual Integrations  
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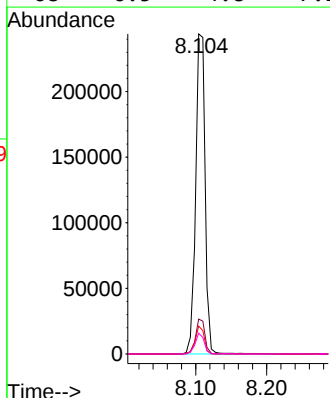
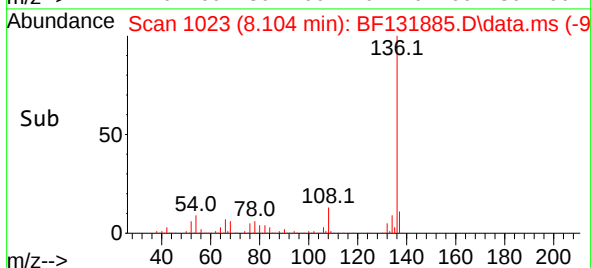
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022

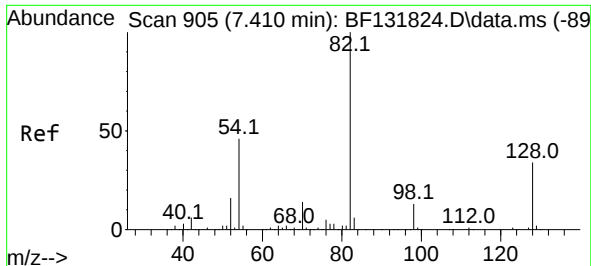


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55



Tgt Ion:136 Resp: 225614  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 8.7 6.7 10.1  
68 6.5 4.8 7.2





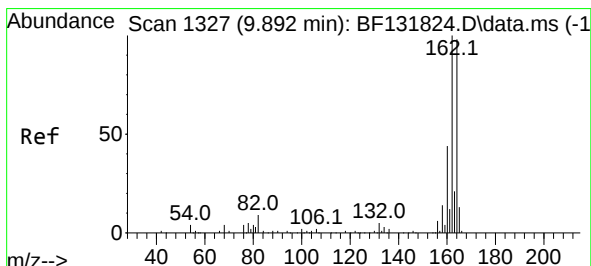
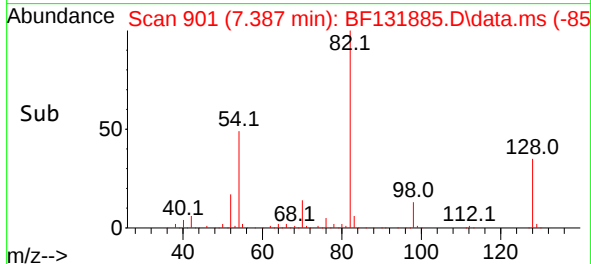
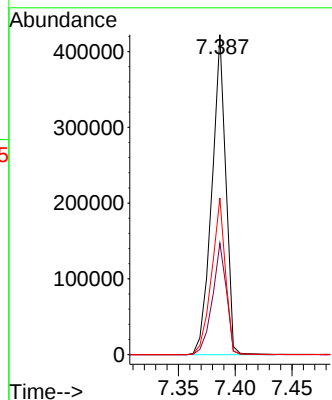
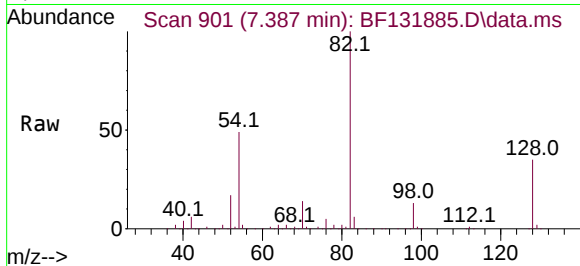
#23  
Nitrobenzene-d5  
Concen: 64.089 ng  
RT: 7.387 min Scan# 905  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion: 82 Resp: 362155  
Ion Ratio Lower Upper  
82 100  
128 34.8 27.1 40.7  
54 48.9 37.0 55.6

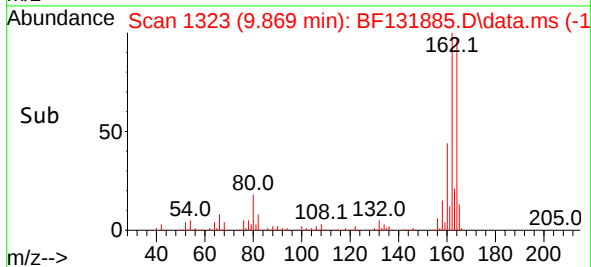
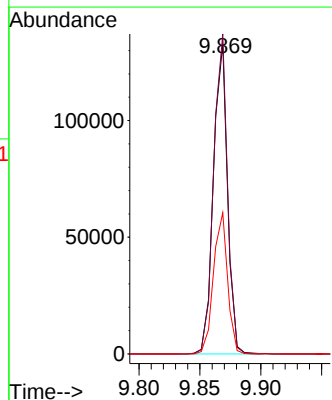
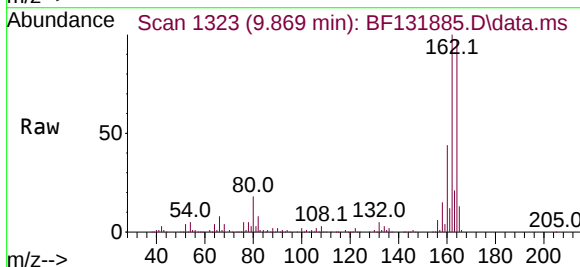
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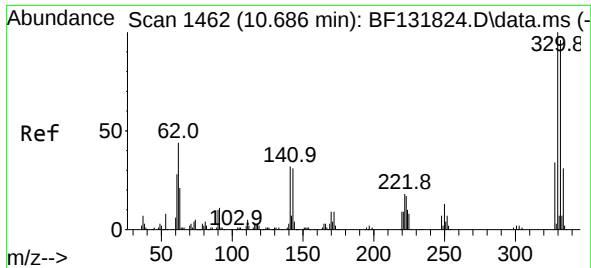
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.869 min Scan# 1323  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

Tgt Ion:164 Resp: 107140  
Ion Ratio Lower Upper  
164 100  
162 103.2 81.8 122.6  
160 45.5 35.7 53.5





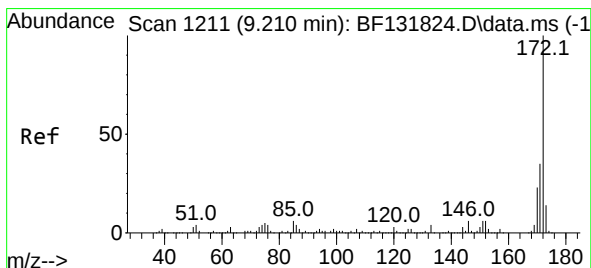
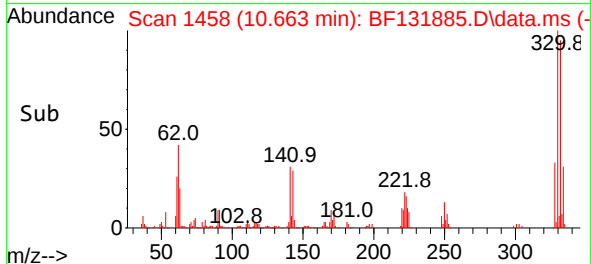
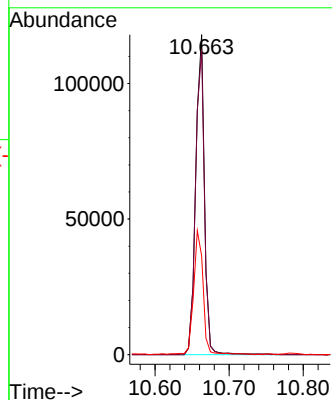
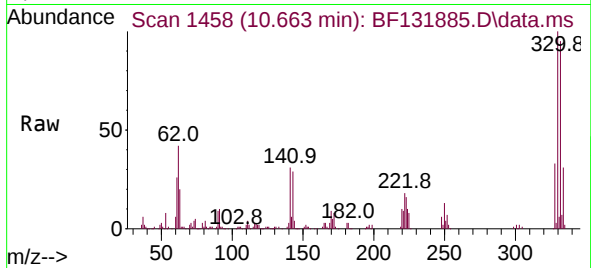
#42  
2,4,6-Tribromophenol  
Concen: 83.237 ng  
RT: 10.663 min Scan# 1462  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion: 330 Resp: 96894  
Ion Ratio Lower Upper  
330 100  
332 97.2 77.0 115.4  
141 42.6 31.0 46.4

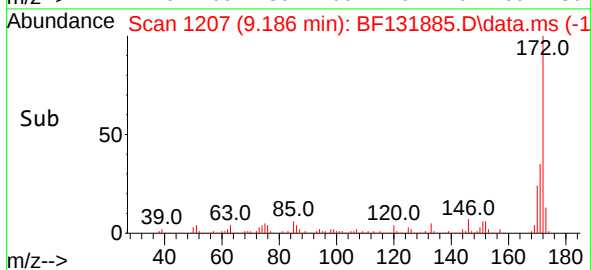
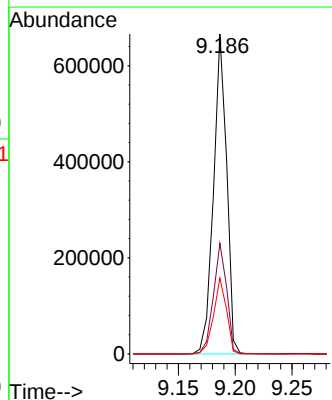
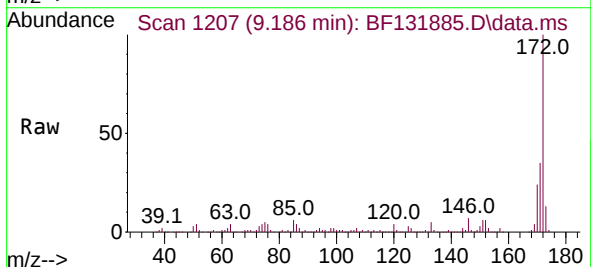
Manual Integrations  
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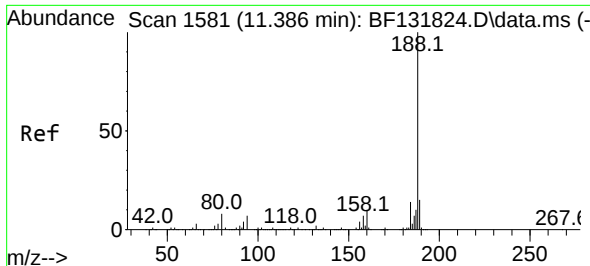
Reviewed By : Jagrut Upadhyay 12/30/2022  
Supervised By : Yogesh Patel 12/30/2022



#45  
2-Fluorobiphenyl  
Concen: 68.466 ng  
RT: 9.186 min Scan# 1207  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

Tgt Ion: 172 Resp: 535539  
Ion Ratio Lower Upper  
172 100  
171 34.6 27.9 41.9  
170 23.7 18.7 28.1





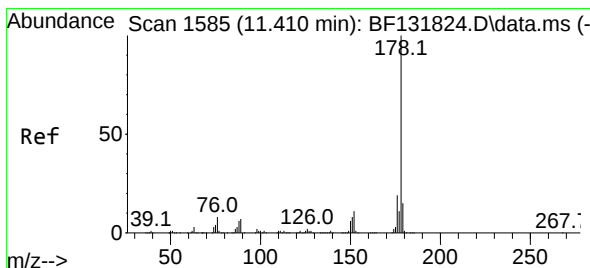
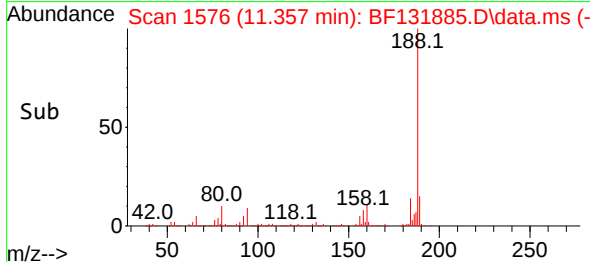
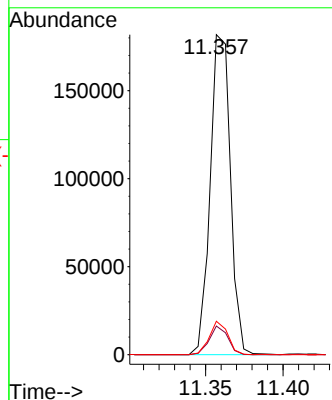
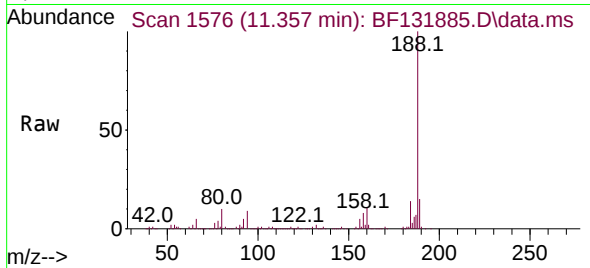
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.357 min Scan# 1576  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion:188 Resp: 165249  
Ion Ratio Lower Upper  
188 100  
94 8.9 5.8 8.6  
80 10.4 6.7 10.1

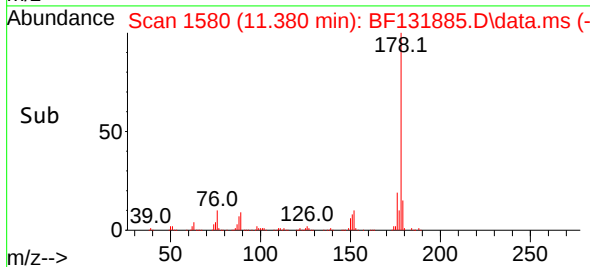
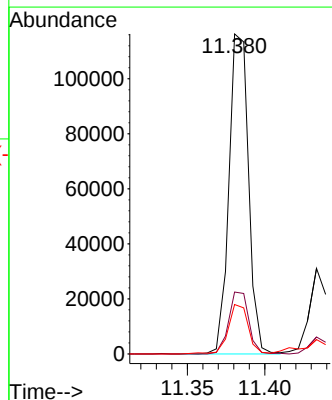
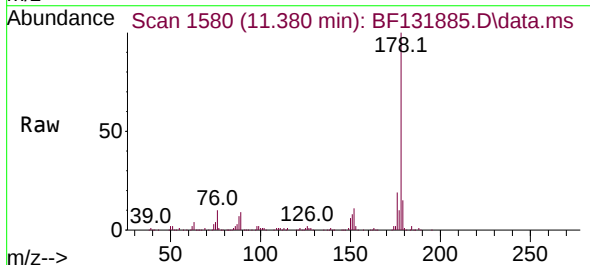
Manual Integrations  
APPROVED

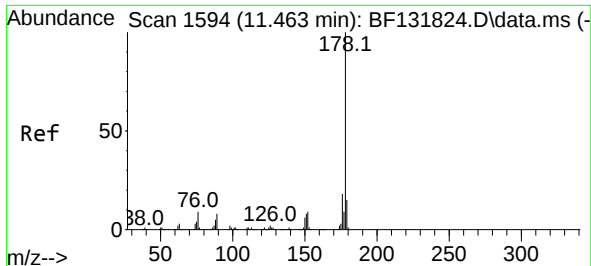
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022



#71  
Phenanthrene  
Concen: 11.256 ng  
RT: 11.380 min Scan# 1580  
Delta R.T. -0.012 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

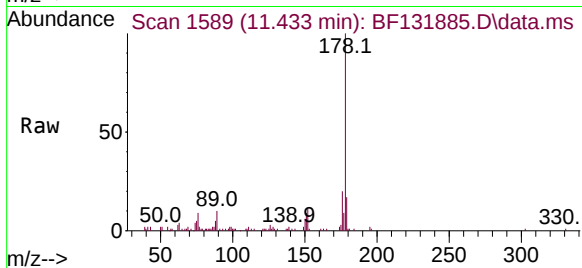
Tgt Ion:178 Resp: 102284  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.5 23.3  
179 15.4 12.2 18.4





#72  
 Anthracene  
 Concen: 2.771 ng  
 RT: 11.433 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF131885.D  
 Acq: 29 Dec 2022 18:55

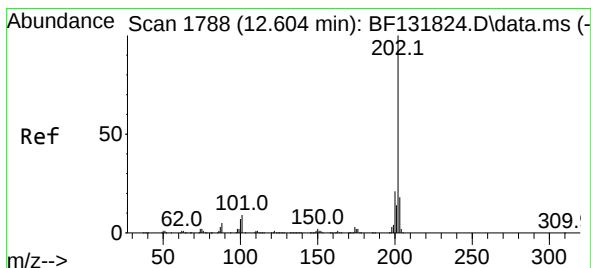
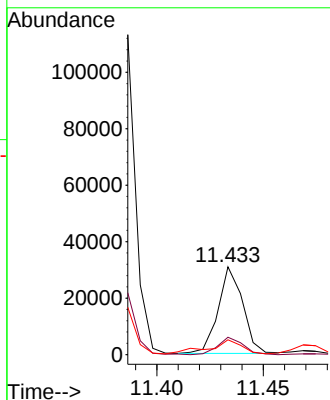
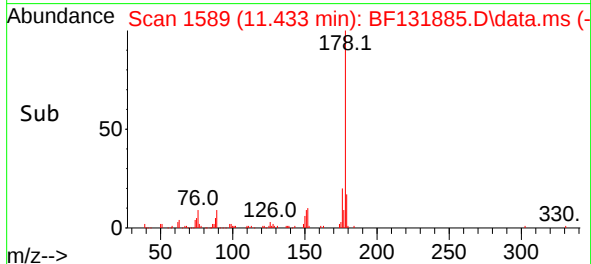
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4



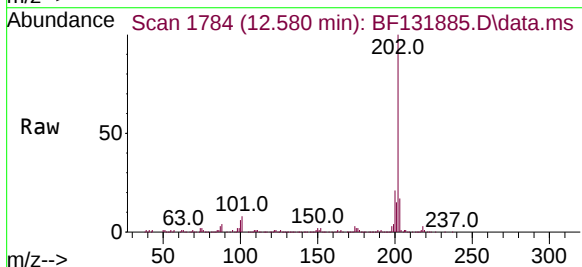
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 Ion Ratio Lower Upper  
 178 100  
 176 19.7 14.8 22.2  
 179 16.8 12.2 18.2

Manual Integrations  
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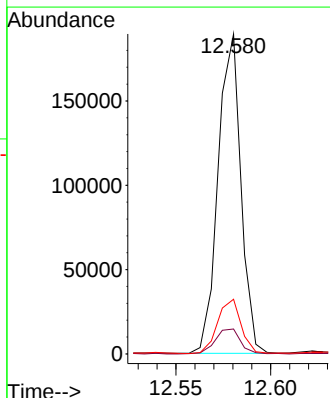
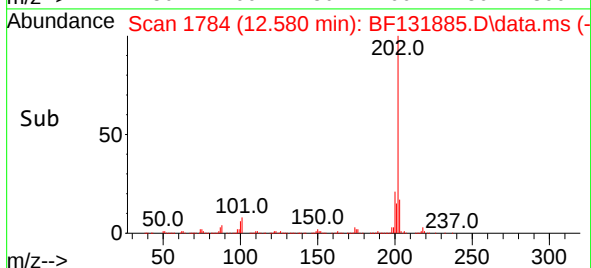
Reviewed By :Jagrut Upadhyay 12/30/2022  
 Supervised By :Yogesh Patel 12/30/2022

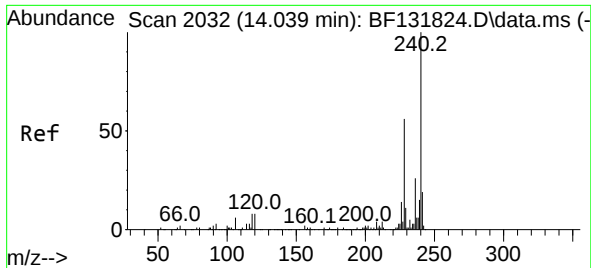


#75  
 Fluoranthene  
 Concen: 15.010 ng  
 RT: 12.580 min Scan# 1784  
 Delta R.T. -0.000 min  
 Lab File: BF131885.D  
 Acq: 29 Dec 2022 18:55



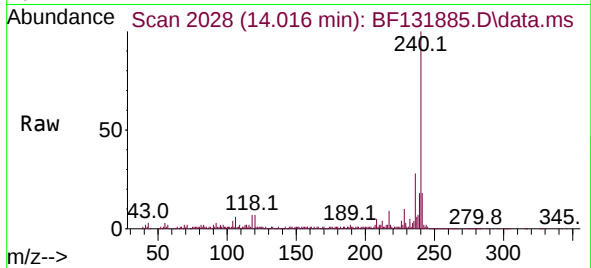
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 Ion Ratio Lower Upper  
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 101 7.8 0.0 28.6  
 203 17.1 0.0 37.8





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.016 min Scan# 2032  
Delta R.T. -0.000 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

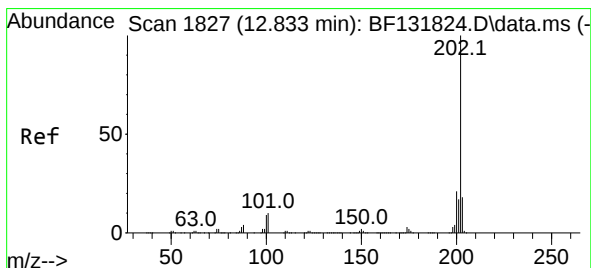
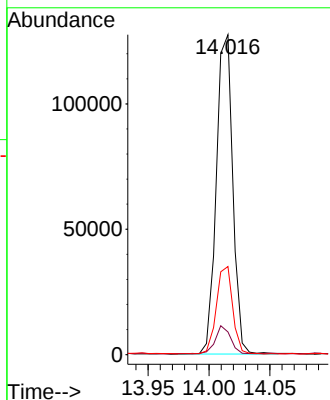
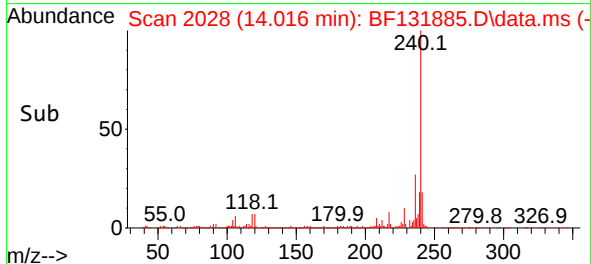
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4



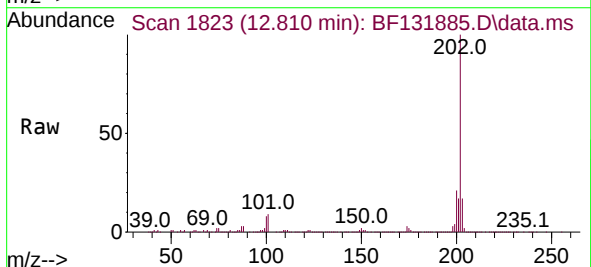
Tgt Ion:240 Resp: 119436  
Ion Ratio Lower Upper  
240 100  
120 7.1 6.7 10.1  
236 27.5 20.6 31.0

Manual Integrations  
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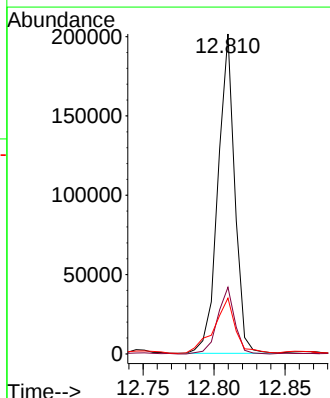
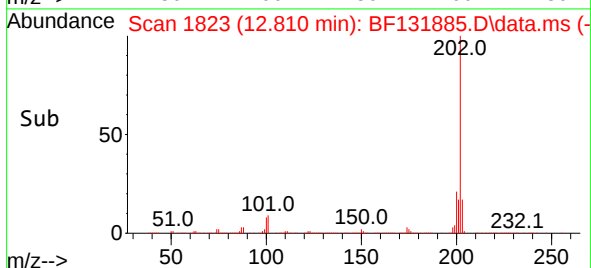
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022

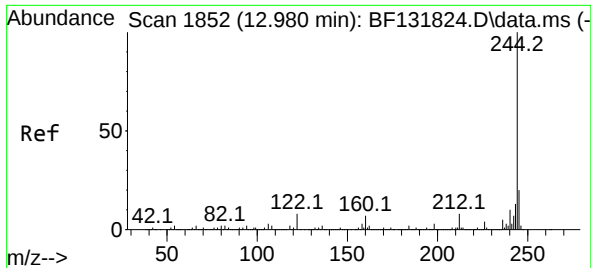


#78  
Pyrene  
Concen: 16.586 ng  
RT: 12.810 min Scan# 1823  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55



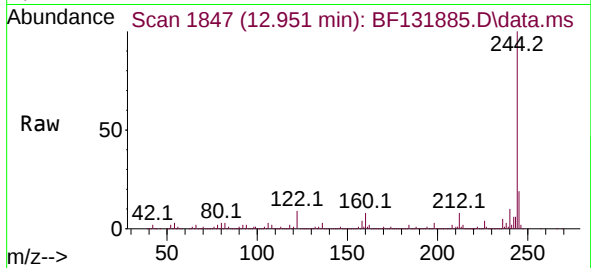
Tgt Ion:202 Resp: 166040  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.7 25.1  
203 17.4 14.4 21.6





#79  
 Terphenyl-d14  
 Concen: 59.493 ng  
 RT: 12.951 min Scan# 1852  
 Delta R.T. -0.006 min  
 Lab File: BF131885.D  
 Acq: 29 Dec 2022 18:55

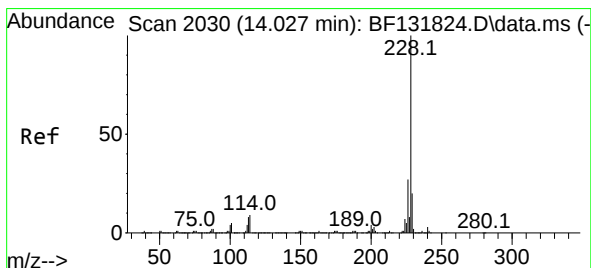
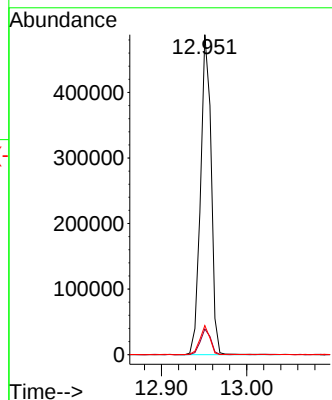
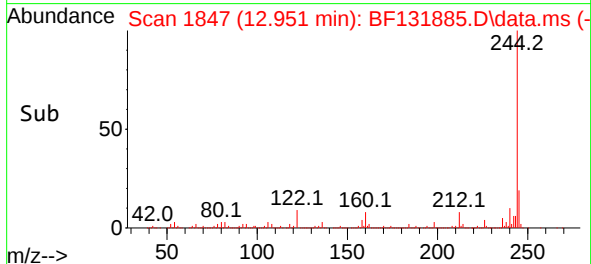
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4



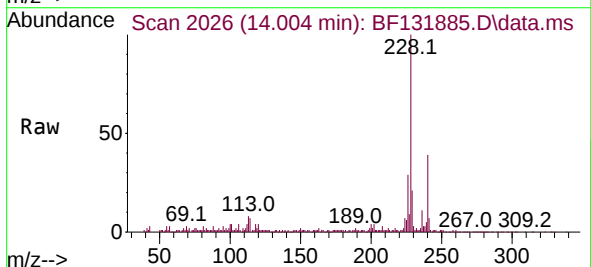
Tgt Ion:244 Resp: 420072  
 Ion Ratio Lower Upper  
 244 100  
 212 8.0 6.3 9.5  
 122 9.1 6.4 9.6

Manual Integrations  
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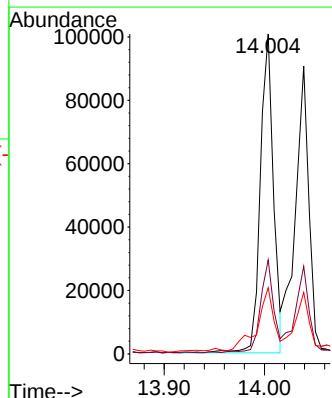
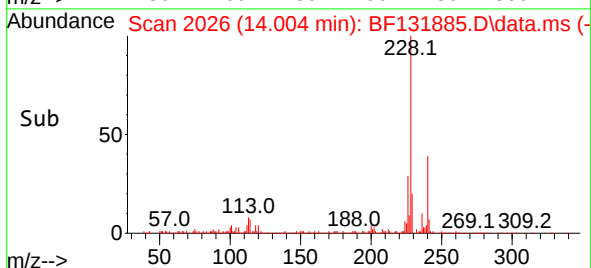
Reviewed By :Jagrut Upadhyay 12/30/2022  
 Supervised By :Yogesh Patel 12/30/2022

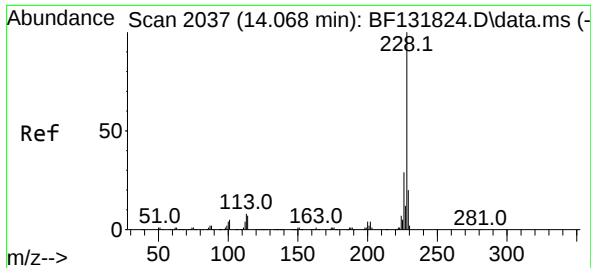


#81  
 Benzo(a)anthracene  
 Concen: 10.672 ng  
 RT: 14.004 min Scan# 2026  
 Delta R.T. -0.000 min  
 Lab File: BF131885.D  
 Acq: 29 Dec 2022 18:55



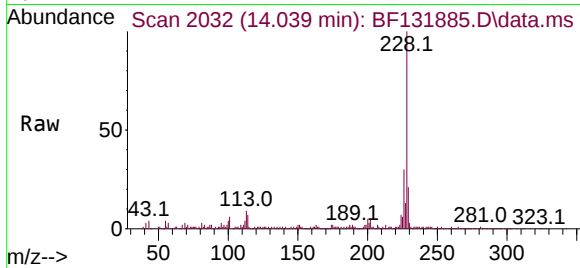
Tgt Ion:228 Resp: 92281  
 Ion Ratio Lower Upper  
 228 100  
 226 29.4 22.0 33.0  
 229 20.7 16.0 24.0





#83  
Chrysene  
Concen: 10.567 ng  
RT: 14.039 min Scan# 2037  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

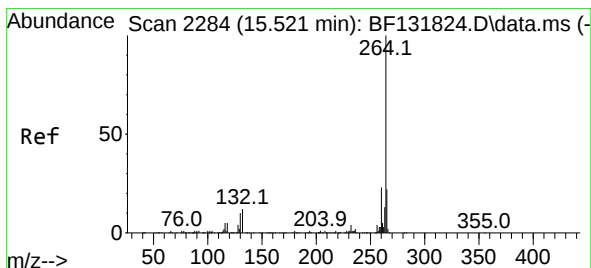
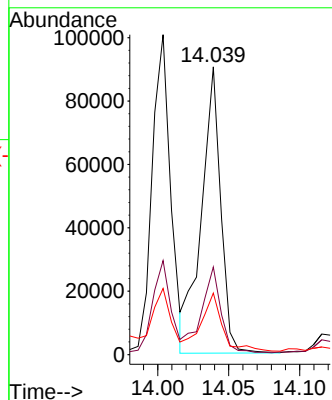
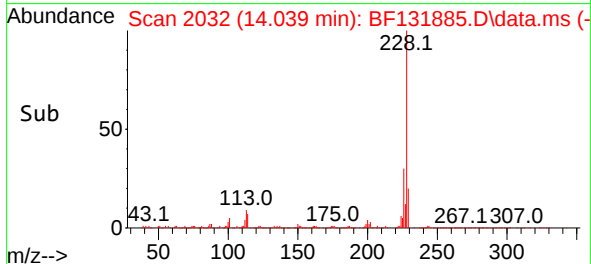
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4



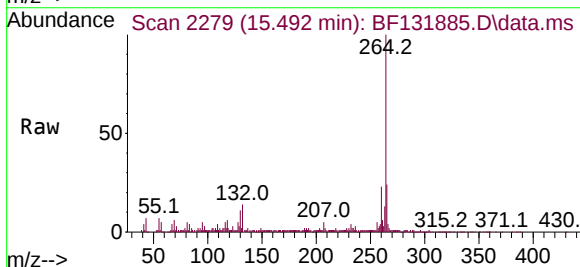
Tgt Ion:228 Resp: 85866  
Ion Ratio Lower Upper  
228 100  
226 30.5 23.5 35.3  
229 21.4 16.2 24.2

Manual Integrations  
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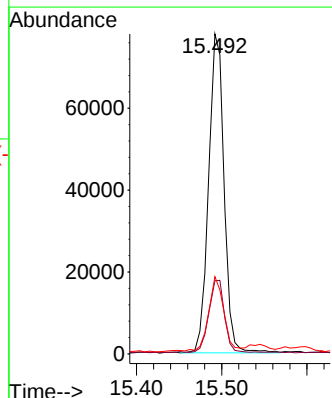
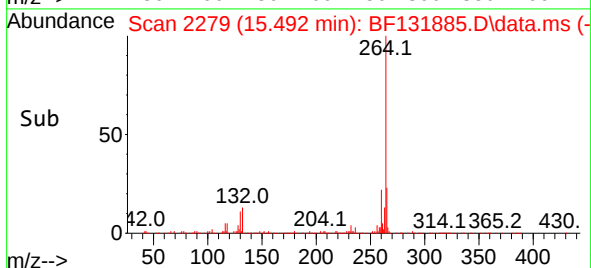
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022

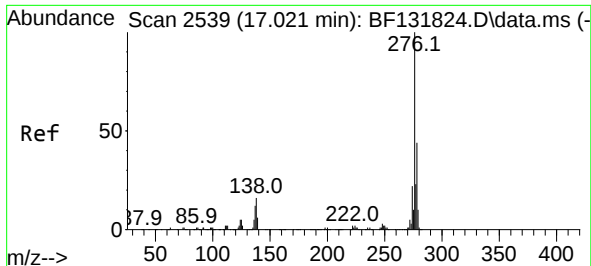


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.492 min Scan# 2279  
Delta R.T. -0.000 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55



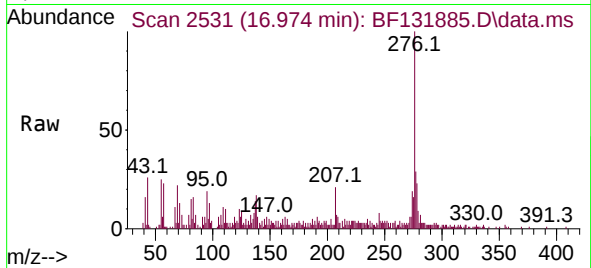
Tgt Ion:264 Resp: 98555  
Ion Ratio Lower Upper  
264 100  
260 22.9 18.6 28.0  
265 24.1 17.4 26.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.282 ng  
RT: 16.974 min Scan# 2188  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55

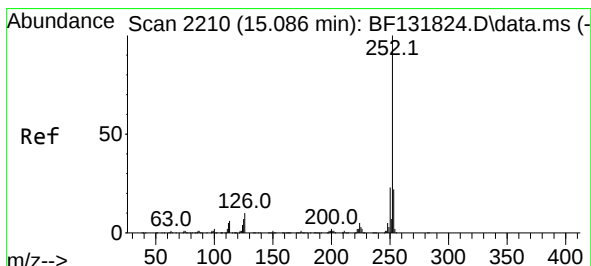
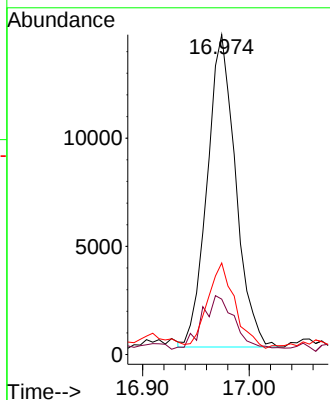
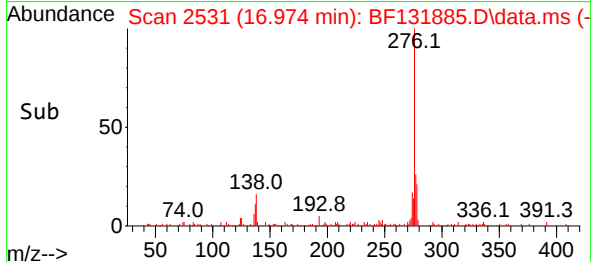
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4



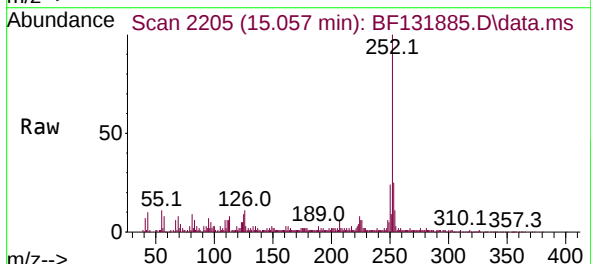
Tgt Ion:276 Resp: 26812  
Ion Ratio Lower Upper  
276 100  
138 19.4 14.5 21.7  
277 26.3 19.7 29.5

Manual Integrations  
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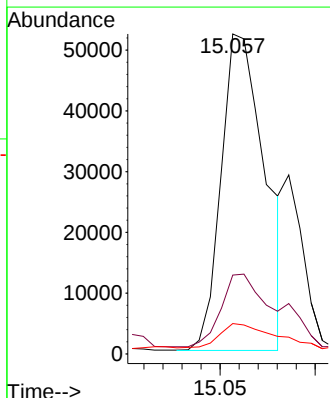
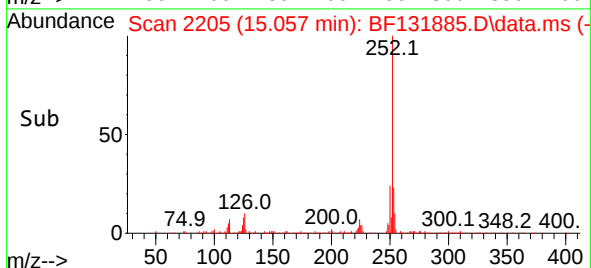
Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022

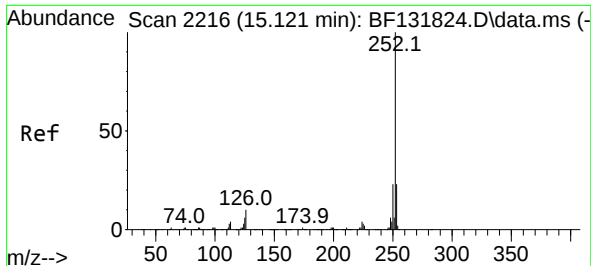


#88  
Benzo(b)fluoranthene  
Concen: 11.545 ng m  
RT: 15.057 min Scan# 2205  
Delta R.T. -0.006 min  
Lab File: BF131885.D  
Acq: 29 Dec 2022 18:55



Tgt Ion:252 Resp: 83431  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.6 26.4  
125 9.5 5.8 8.8#





#89

Benzo(k)fluoranthene

Concen: 3.058 ng m

RT: 15.086 min Scan# 21350

Delta R.T. -0.006 min

Lab File: BF131885.D

Acq: 29 Dec 2022 18:55

Instrument :

BNA\_F

ClientSampleId :

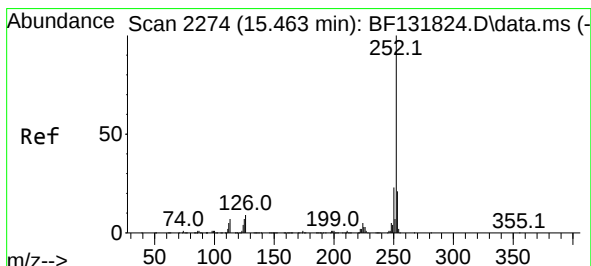
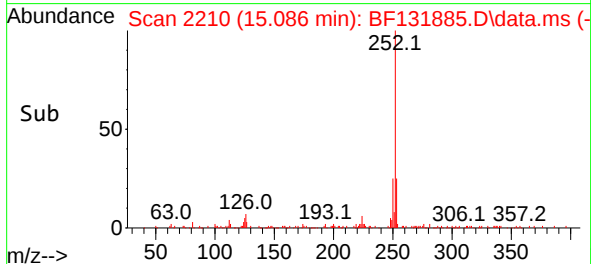
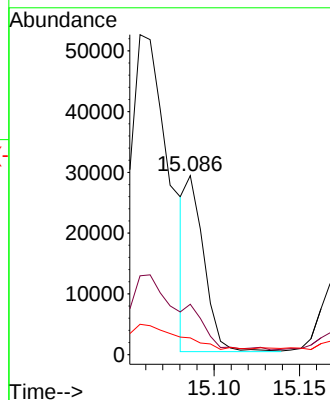
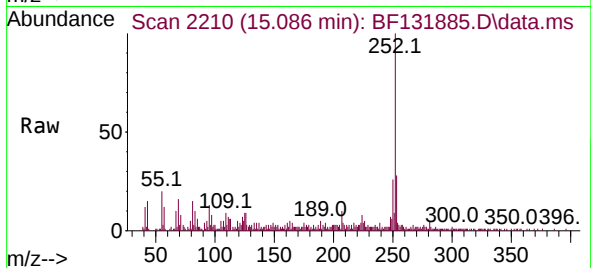
TP-4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 21350 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.1  | 17.7  | 26.5  |
| 125       | 9.4   | 5.4   | 8.0   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/30/2022  
Supervised By :Yogesh Patel 12/30/2022



#90

Benzo(a)pyrene

Concen: 9.985 ng

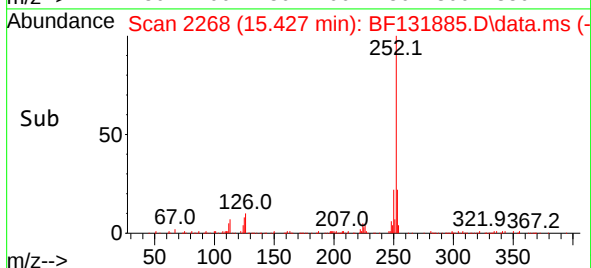
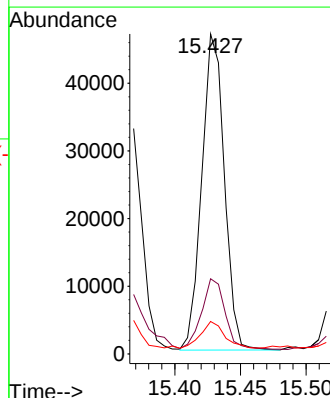
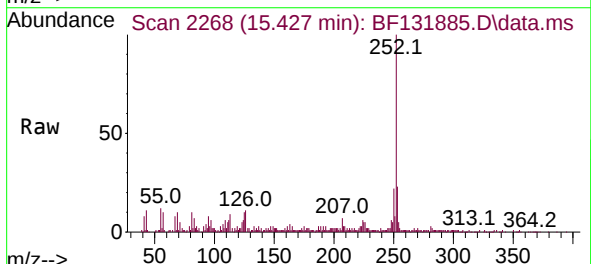
RT: 15.427 min Scan# 2268

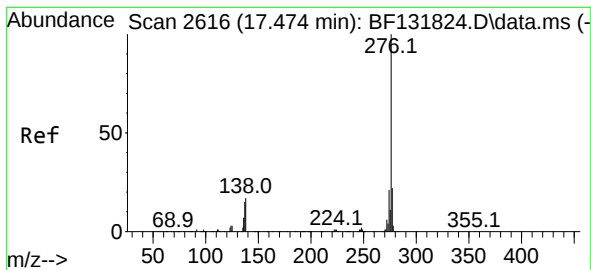
Delta R.T. -0.006 min

Lab File: BF131885.D

Acq: 29 Dec 2022 18:55

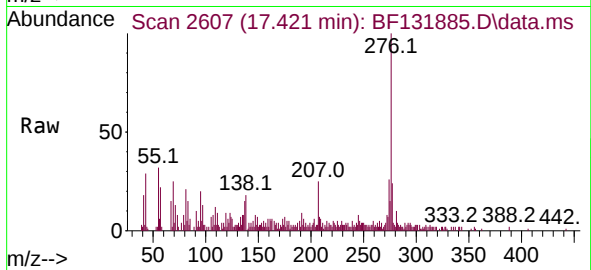
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 55865 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.5  | 16.6  | 24.8  |
| 125       | 10.1  | 5.8   | 8.8   |





#92  
 Benzo(g,h,i)perylene  
 Concen: 9.041 ng  
 RT: 17.421 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: BF131885.D  
 Acq: 29 Dec 2022 18:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4



Tgt Ion: 276 Resp: 25840

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 23.9  | 17.9  | 26.9  |
| 138 | 18.3  | 13.7  | 20.5  |

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/30/2022  
 Supervised By :Yogesh Patel 12/30/2022

