

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091824\  
 Data File : BF139448.D  
 Acq On : 19 Sep 2024 01:57  
 Operator : RC/JU  
 Sample : P4090-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-091724

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024  
 Supervised By :mohammad ahmed 09/20/2024

Quant Time: Sep 19 02:34:35 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   | 6.881  | 152  | 58177    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.163  | 136  | 183501   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.910  | 164  | 81354    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.398 | 188  | 146174   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.033 | 240  | 92515    | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.504 | 264  | 75546    | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.499  | 112  | 285696   | 80.112 | ng    | 0.00     |
| 7) Phenol-d6                | 6.504  | 99   | 354775   | 75.793 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.440  | 82   | 223051   | 57.144 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.698 | 330  | 62124    | 71.727 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.234  | 172  | 348278   | 60.042 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.980 | 244  | 351182   | 62.306 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 37) 2-Methylnaphthalene     | 8.875  | 142  | 14962    | 2.461  | ng    | 95       |
| 71) Phenanthrene            | 11.422 | 178  | 14692    | 2.083  | ng    | # 95     |
| 75) Fluoranthene            | 12.610 | 202  | 26384    | 3.503  | ng    | 97       |
| 78) Pyrene                  | 12.839 | 202  | 32483    | 4.089  | ng    | 96       |
| 81) Benzo(a)anthracene      | 14.022 | 228  | 13938    | 2.274  | ng    | # 78     |
| 83) Chrysene                | 14.057 | 228  | 14048    | 2.492  | ng    | # 90     |
| 88) Benzo(b)fluoranthene    | 15.074 | 252  | 14753m   | 3.166  | ng    |          |
| 90) Benzo(a)pyrene          | 15.439 | 252  | 11112    | 2.876  | ng    | # 78     |
| -----                       |        |      |          |        |       |          |

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

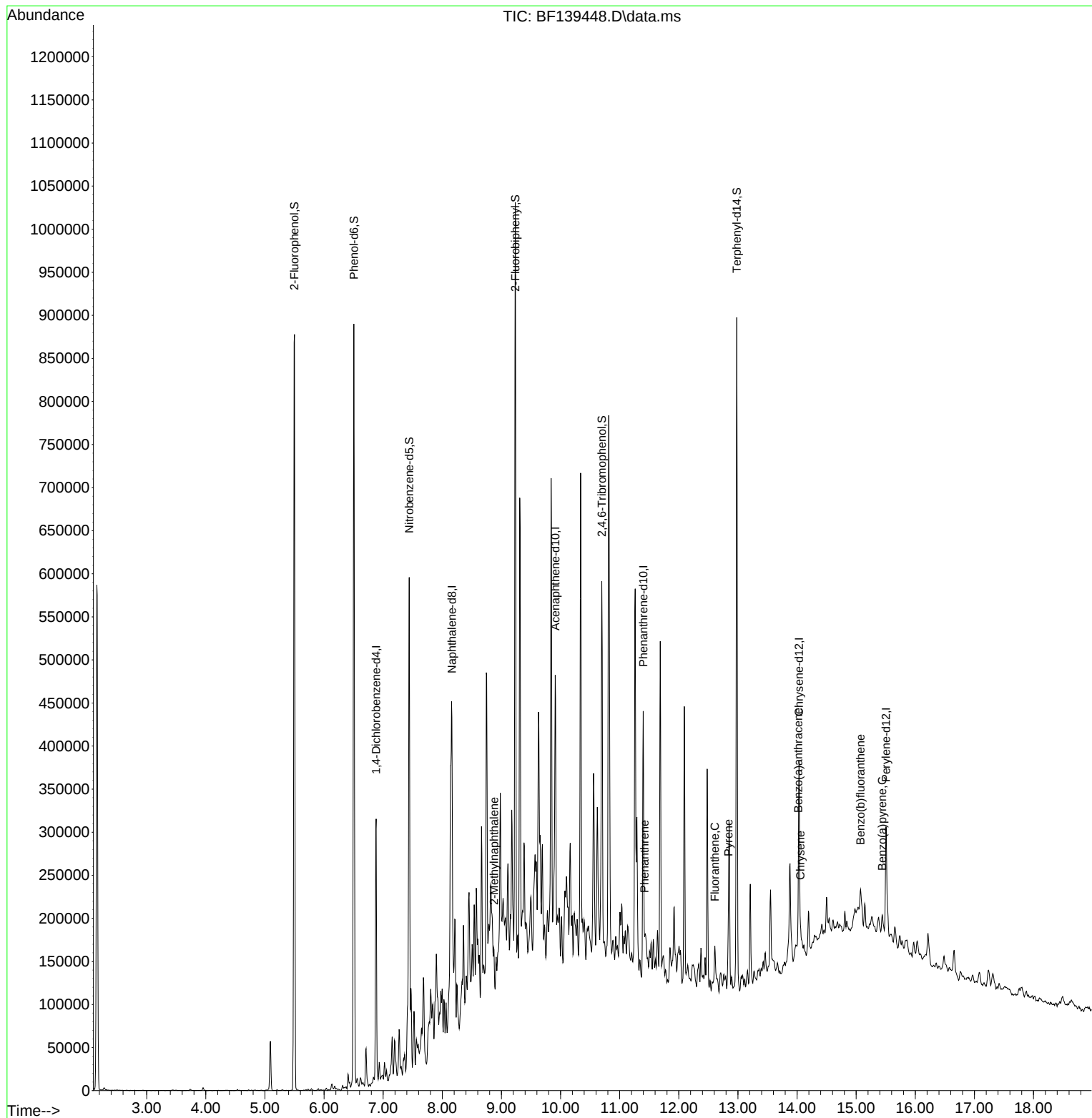
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091824\  
Data File : BF139448.D  
Acq On : 19 Sep 2024 01:57  
Operator : RC/JU  
Sample : P4090-01  
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ALS Vial : 22 Sample Multiplier: 1

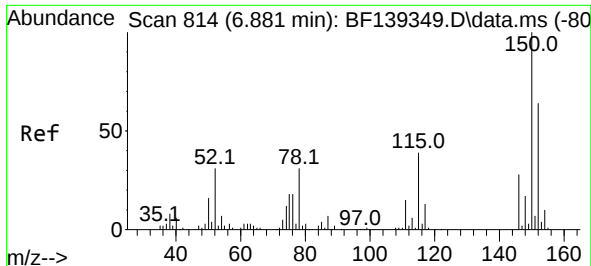
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Sep 19 02:34:35 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091324.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Supervised By :mohammad ahmed 09/20/2024





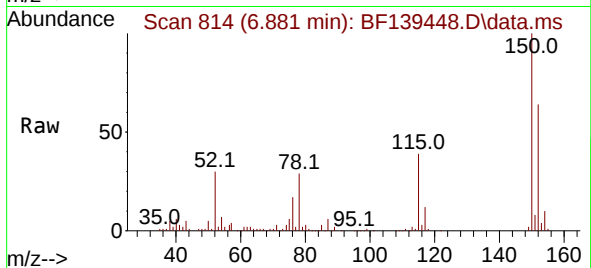
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 814  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Instrument :

BNA\_F

ClientSampleId :

TR-04-091724

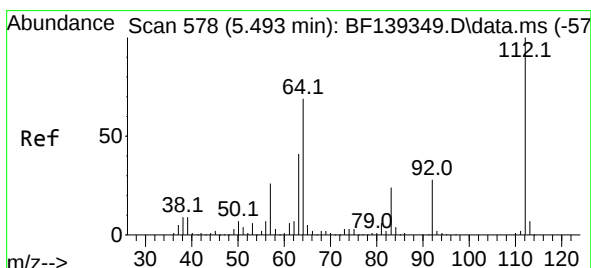
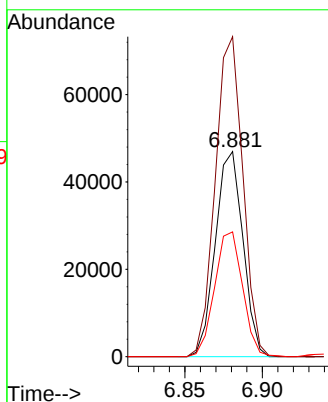
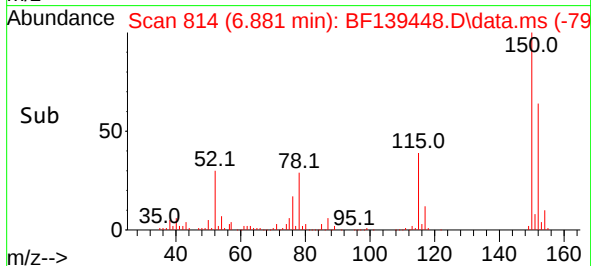


Tgt Ion:152 Resp: 5817  
Ion Ratio Lower Upper  
152 100  
150 156.0 124.1 186.1  
115 60.9 48.1 72.1

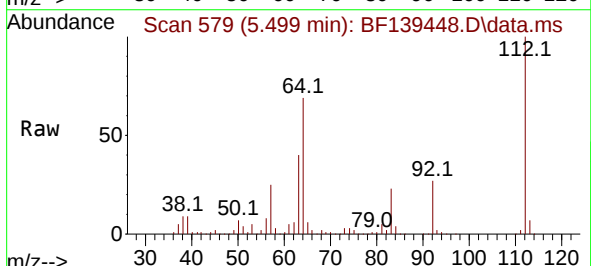
Manual Integrations

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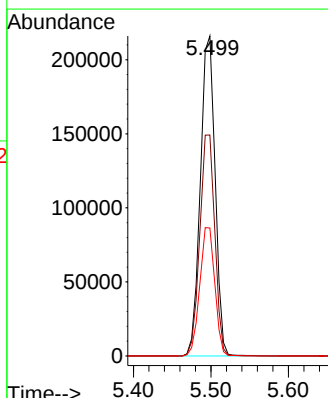
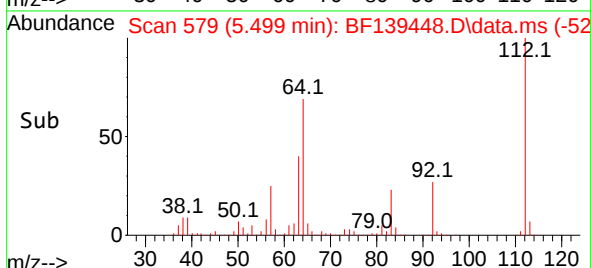
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024

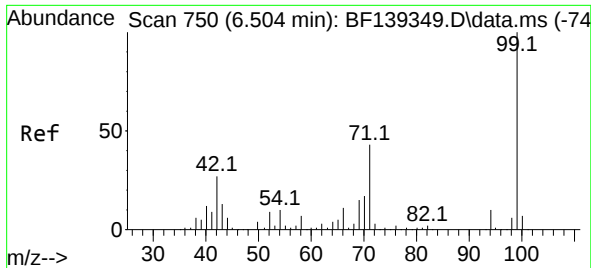


#5  
2-Fluorophenol  
Concen: 80.112 ng  
RT: 5.499 min Scan# 579  
Delta R.T. 0.006 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57



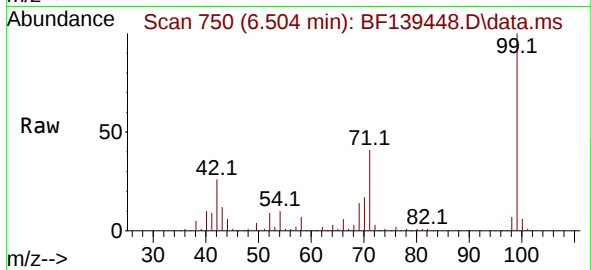
Tgt Ion:112 Resp: 285696  
Ion Ratio Lower Upper  
112 100  
64 69.0 54.8 82.2  
63 40.0 33.0 49.4





#7  
Phenol-d6  
Concen: 75.793 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

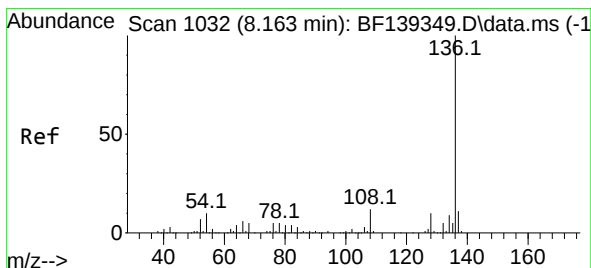
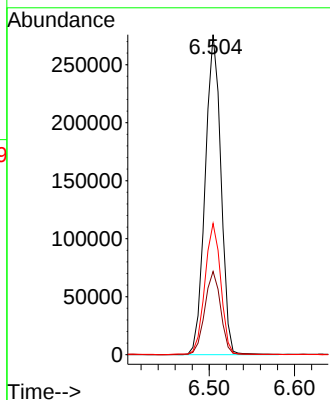
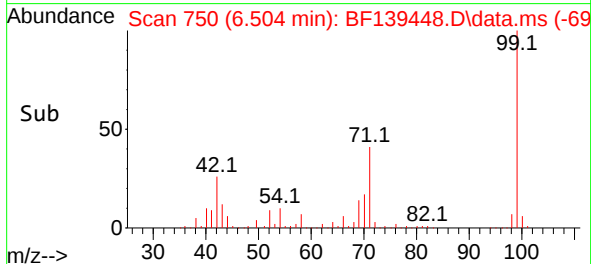
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 99 Resp: 354775  
Ion Ratio Lower Upper  
99 100  
42 26.0 21.9 32.9  
71 41.0 34.6 52.0

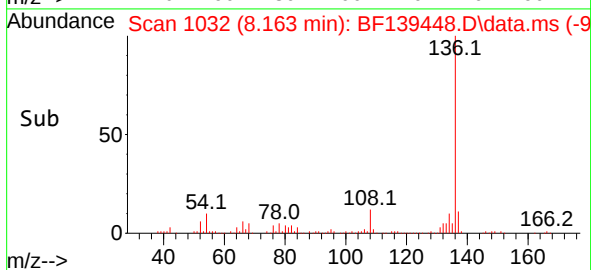
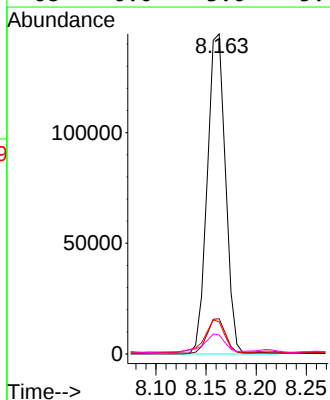
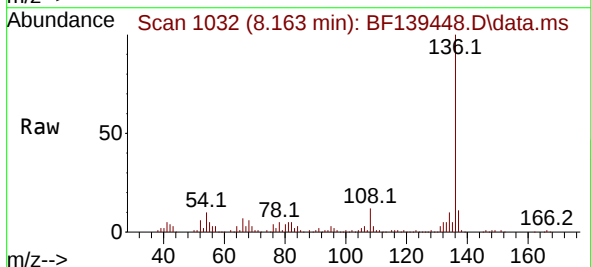
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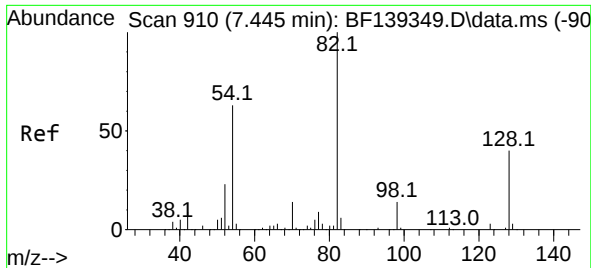
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 1032  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Tgt Ion:136 Resp: 183501  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 12.8  
54 10.0 7.8 11.8  
68 6.0 3.6 5.4#





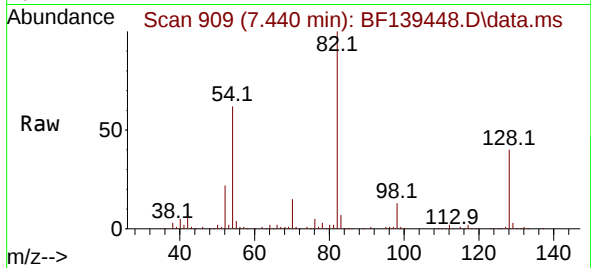
#23  
Nitrobenzene-d5  
Concen: 57.144 ng  
RT: 7.440 min Scan# 909  
Delta R.T. -0.006 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Instrument :

BNA\_F

ClientSampleId :

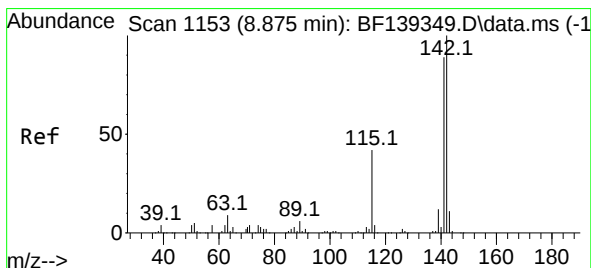
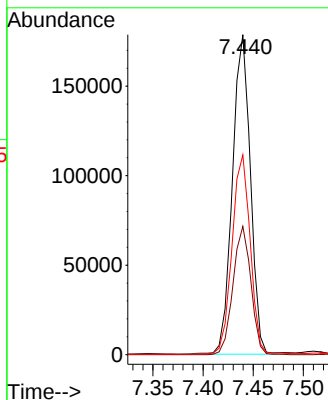
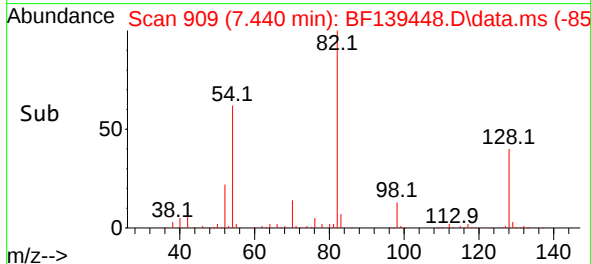
TR-04-091724



Tgt Ion: 82 Resp: 22305  
Ion Ratio Lower Upper  
82 100  
128 40.1 31.8 47.6  
54 62.4 50.6 75.8

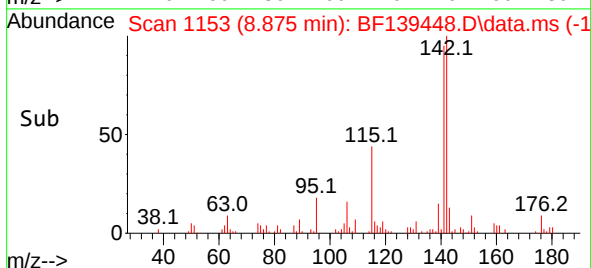
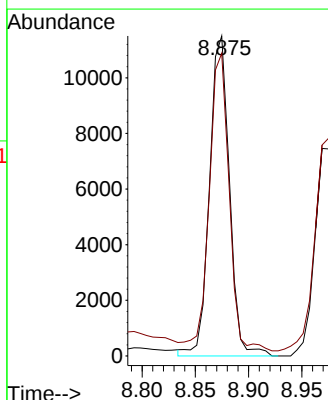
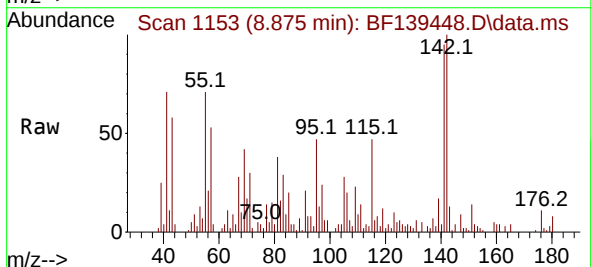
Manual Integrations  
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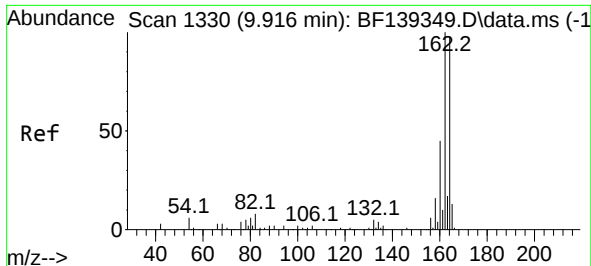
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#37  
2-Methylnaphthalene  
Concen: 2.461 ng  
RT: 8.875 min Scan# 1153  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Tgt Ion:142 Resp: 14962  
Ion Ratio Lower Upper  
142 100  
141 94.6 71.6 107.4





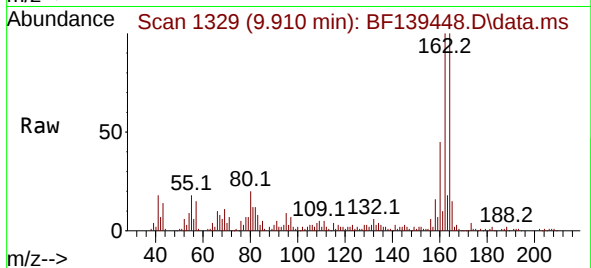
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Instrument :

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ClientSampleId :

TR-04-091724

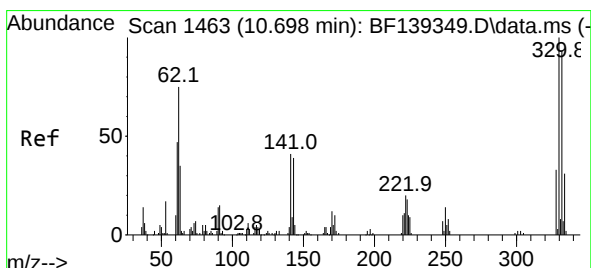
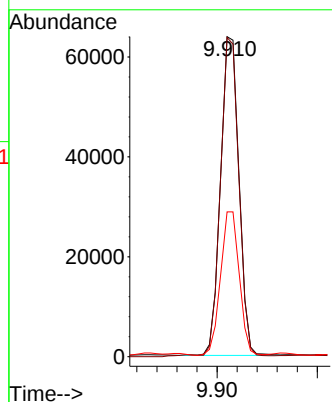
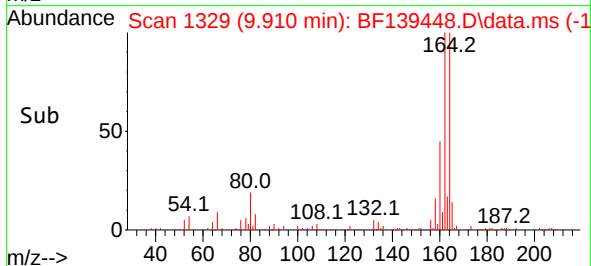


Tgt Ion:164 Resp: 81354  
Ion Ratio Lower Upper  
164 100  
162 99.8 81.3 121.9  
160 45.2 36.4 54.6

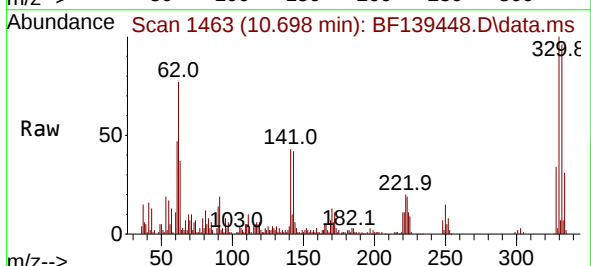
Manual Integrations

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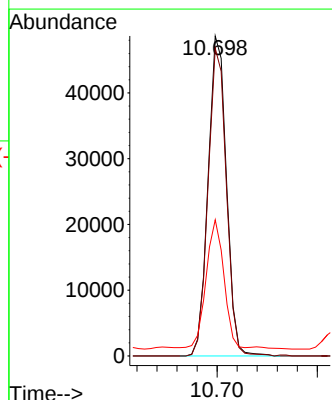
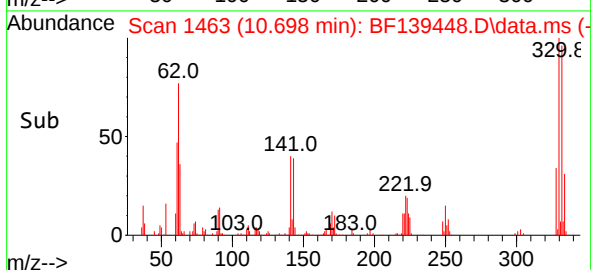
Reviewed By :Jagrut Upadhyay 09/19/2024  
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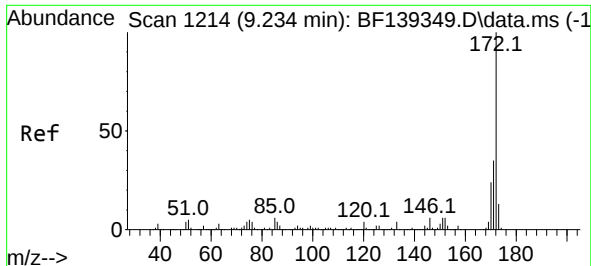


#42  
2,4,6-Tribromophenol  
Concen: 71.727 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57



Tgt Ion:330 Resp: 62124  
Ion Ratio Lower Upper  
330 100  
332 95.7 75.2 112.8  
141 38.2 31.2 46.8





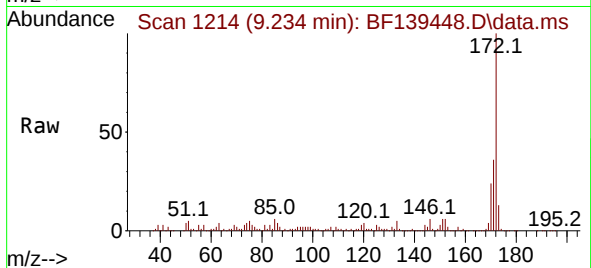
#45  
2-Fluorobiphenyl  
Concen: 60.042 ng  
RT: 9.234 min Scan# 1214  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Instrument :

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TR-04-091724

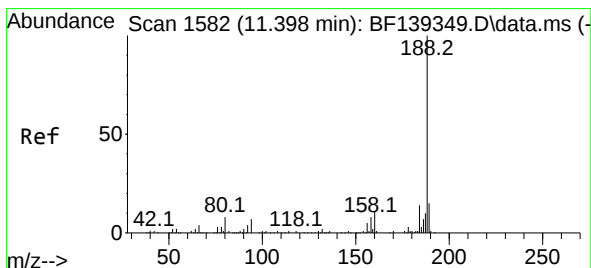
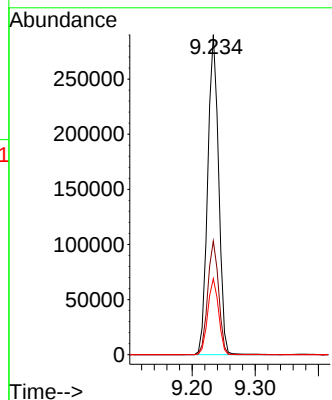
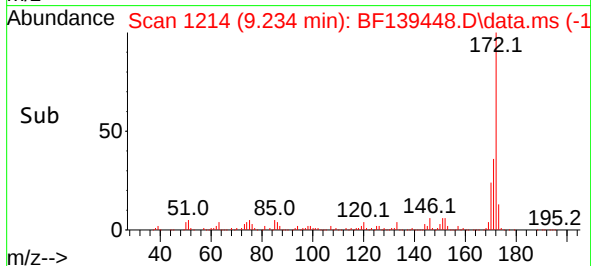


Tgt Ion:172 Resp: 348278  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.3 42.5  
170 23.8 19.0 28.6

Manual Integrations

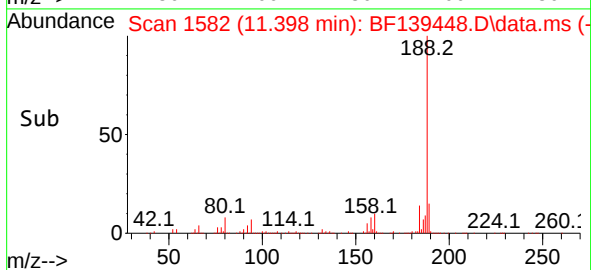
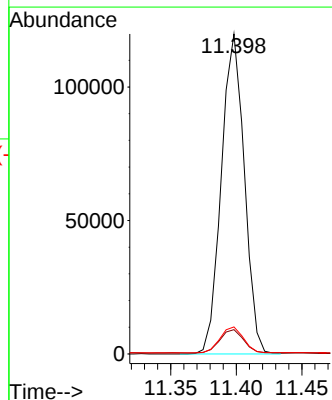
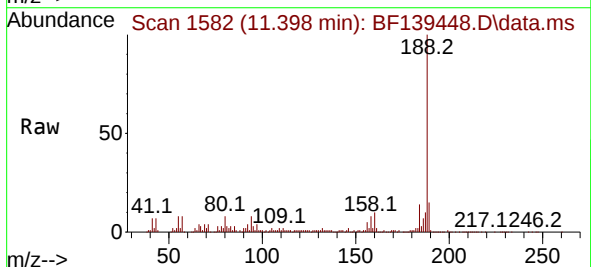
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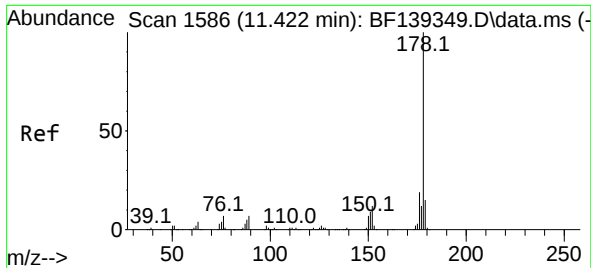
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.398 min Scan# 1582  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Tgt Ion:188 Resp: 146174  
Ion Ratio Lower Upper  
188 100  
94 7.6 5.5 8.3  
80 8.4 6.6 9.8





#71  
Phenanthrene  
Concen: 2.083 ng  
RT: 11.422 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Instrument :

BNA\_F

ClientSampleId :

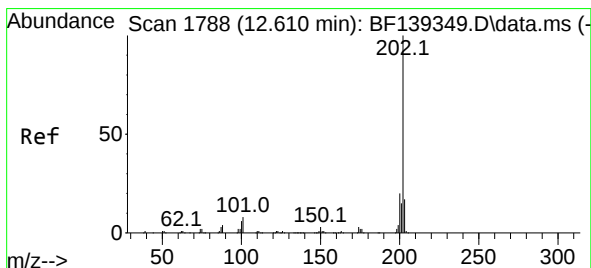
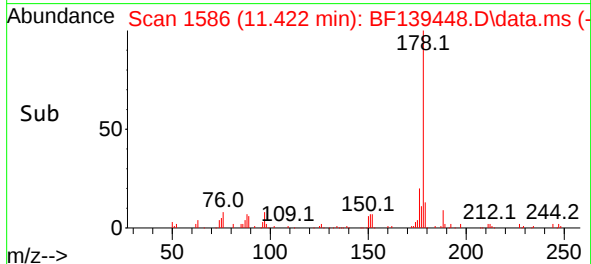
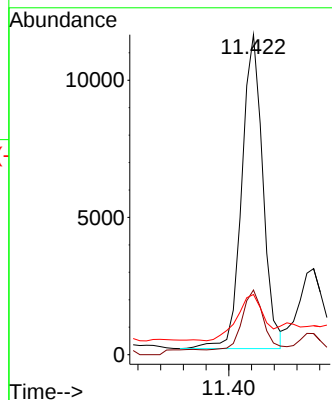
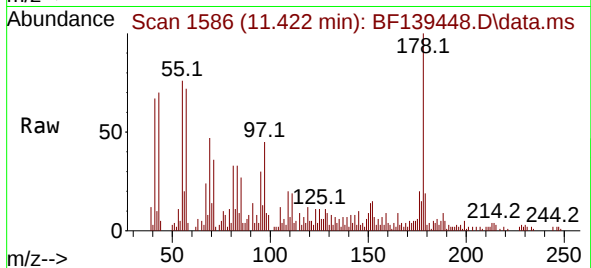
TR-04-091724

Tgt Ion:178 Resp: 14692  
Ion Ratio Lower Upper  
178 100  
176 20.2 15.2 22.8  
179 18.8 12.2 18.4

Manual Integrations

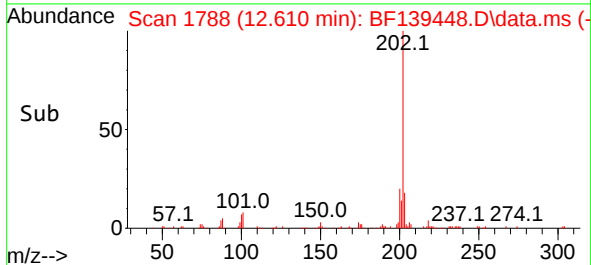
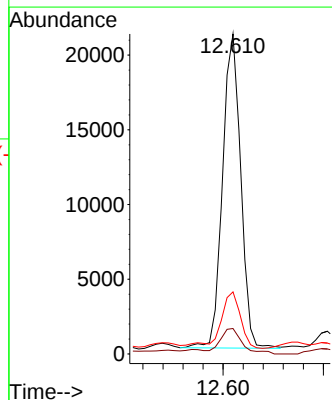
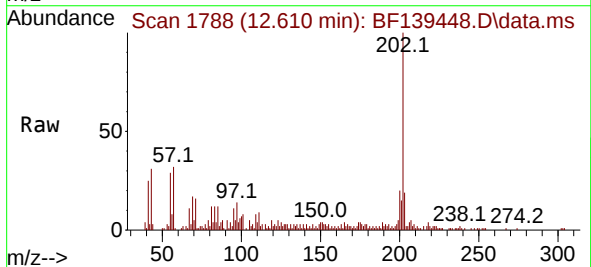
APPROVED

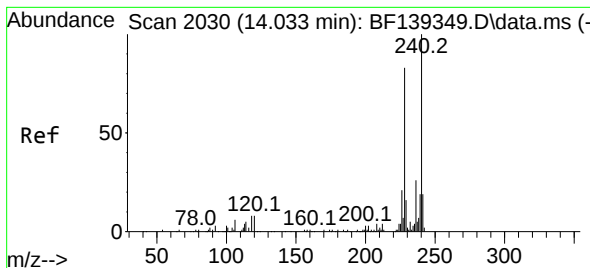
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#75  
Fluoranthene  
Concen: 3.503 ng  
RT: 12.610 min Scan# 1788  
Delta R.T. -0.000 min  
Lab File: BF139448.D  
Acq: 19 Sep 2024 01:57

Tgt Ion:202 Resp: 26384  
Ion Ratio Lower Upper  
202 100  
101 7.9 0.0 27.7  
203 19.4 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.000 min

Lab File: BF139448.D

Acq: 19 Sep 2024 01:57

Instrument :

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ClientSampleId :

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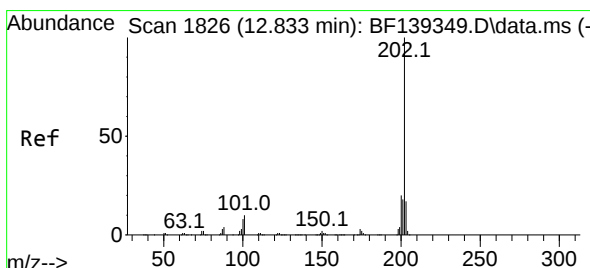
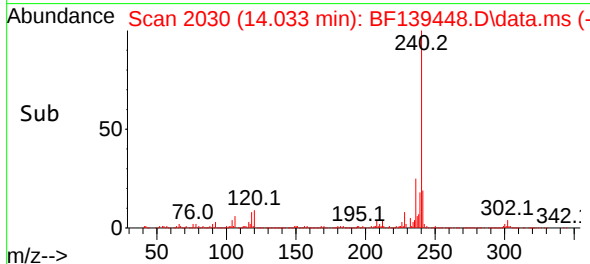
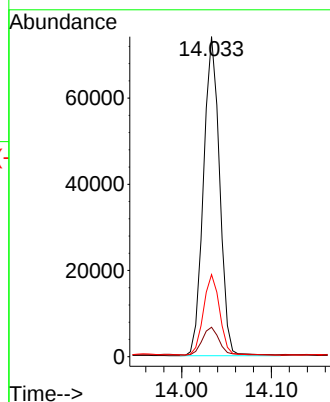
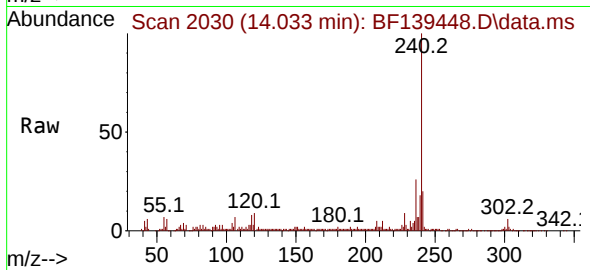
Tgt Ion:240 Resp: 9251

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 9.2   | 6.2   | 9.2   |
| 236 | 25.7  | 20.9  | 31.3  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#78

Pyrene

Concen: 4.089 ng

RT: 12.839 min Scan# 1827

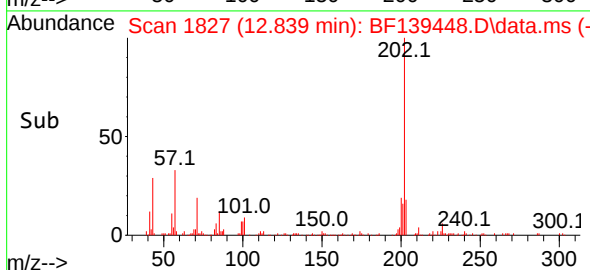
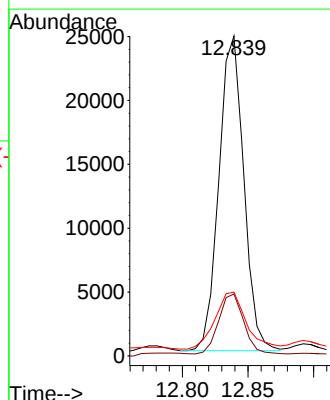
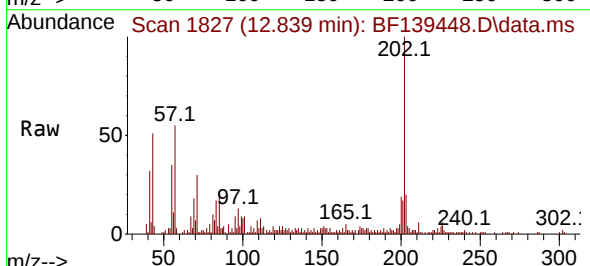
Delta R.T. 0.006 min

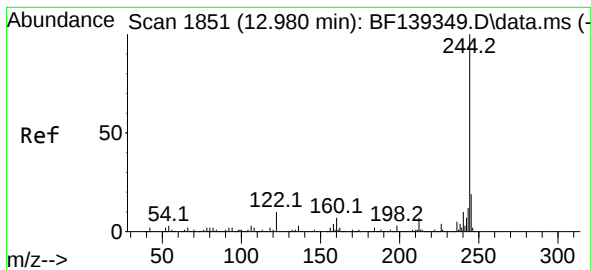
Lab File: BF139448.D

Acq: 19 Sep 2024 01:57

Tgt Ion:202 Resp: 32483

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 19.4  | 16.2  | 24.2  |
| 203 | 19.9  | 13.9  | 20.9  |





#79

Terphenyl-d14

Concen: 62.306 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BF139448.D

Acq: 19 Sep 2024 01:57

Instrument :

BNA\_F

ClientSampleId :

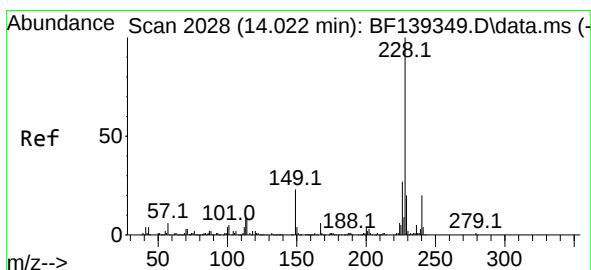
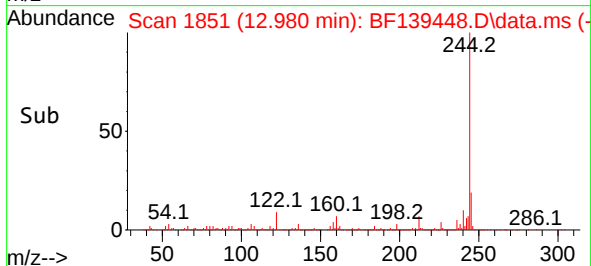
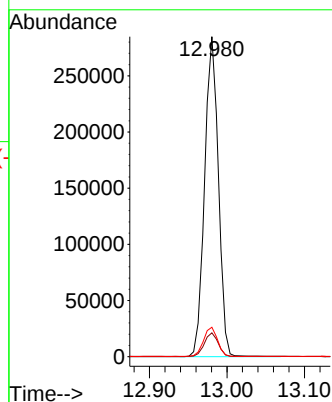
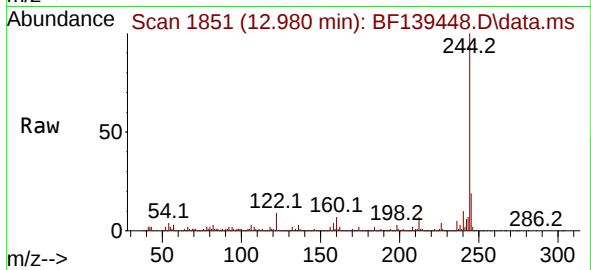
TR-04-091724

Tgt Ion:244 Resp: 35118  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 6.0 9.0  
 122 9.2 7.6 11.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024  
 Supervised By :mohammad ahmed 09/20/2024



#81

Benzo(a)anthracene

Concen: 2.274 ng

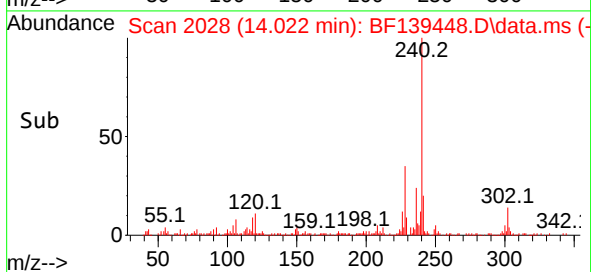
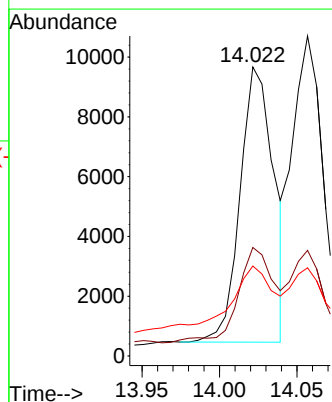
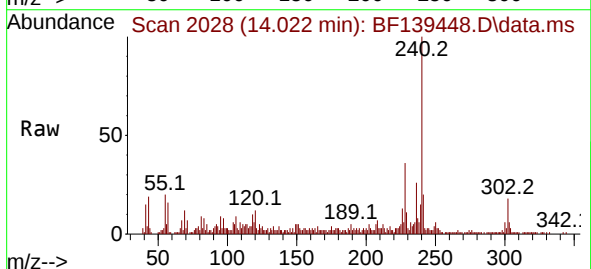
RT: 14.022 min Scan# 2028

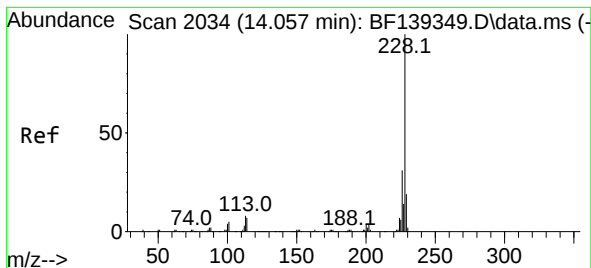
Delta R.T. -0.000 min

Lab File: BF139448.D

Acq: 19 Sep 2024 01:57

Tgt Ion:228 Resp: 13938  
 Ion Ratio Lower Upper  
 228 100  
 226 37.5 21.6 32.4#  
 229 31.1 15.7 23.5#





#83

Chrysene

Concen: 2.492 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.000 min

Lab File: BF139448.D

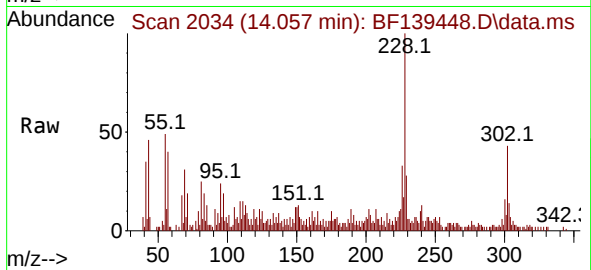
Acq: 19 Sep 2024 01:57

Instrument :

BNA\_F

ClientSampleId :

TR-04-091724

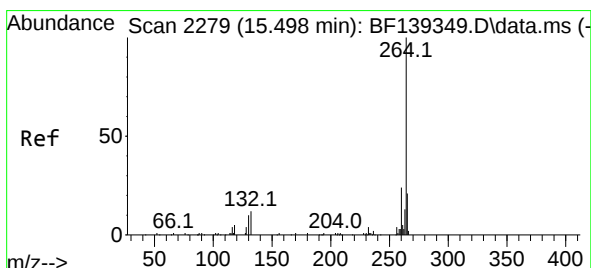
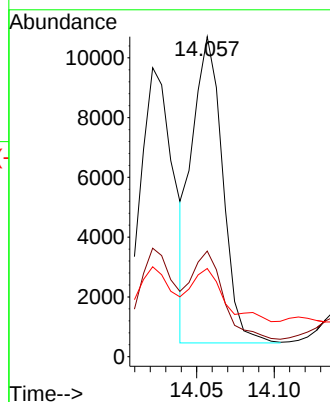
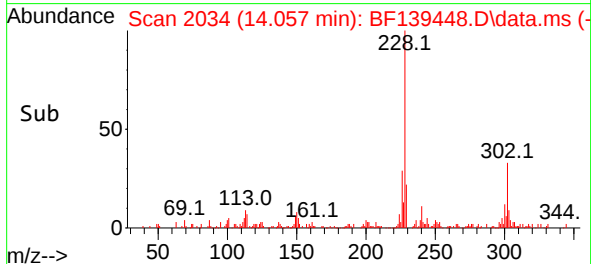


|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 1404 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 33.0  | 24.1  | 36.1 |
| 229       | 27.6  | 15.4  | 23.0 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#86

Perylene-d12

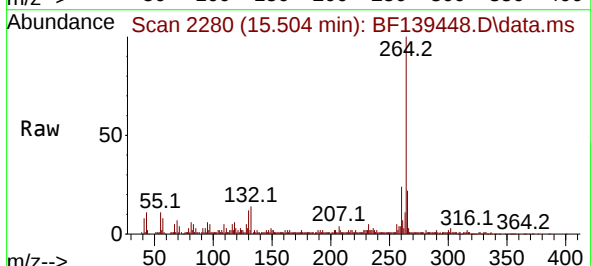
Concen: 20.000 ng

RT: 15.504 min Scan# 2280

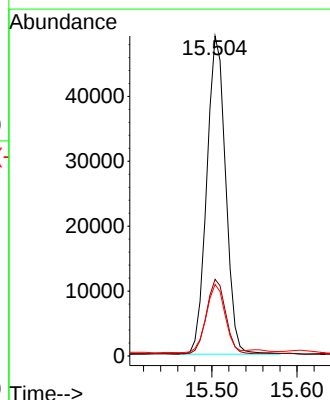
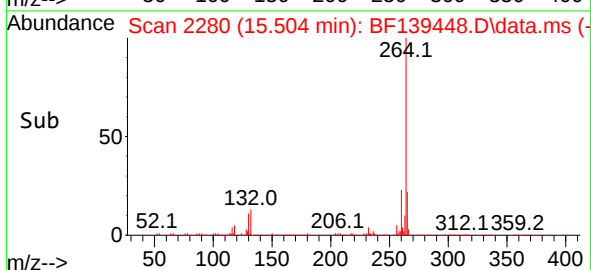
Delta R.T. 0.006 min

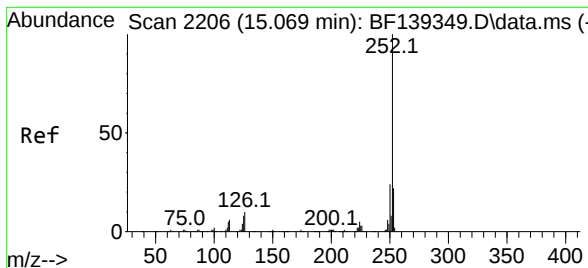
Lab File: BF139448.D

Acq: 19 Sep 2024 01:57



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 75546 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 24.0  | 19.5  | 29.3  |
| 265       | 22.4  | 16.6  | 25.0  |





#88

Benzo(b)fluoranthene

Concen: 3.166 ng m

RT: 15.074 min Scan# 2207

Delta R.T. 0.006 min

Lab File: BF139448.D

Acq: 19 Sep 2024 01:57

Instrument :

BNA\_F

ClientSampleId :

TR-04-091724

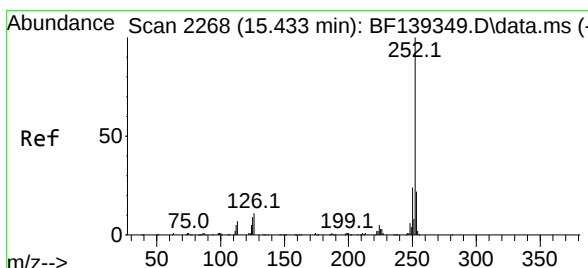
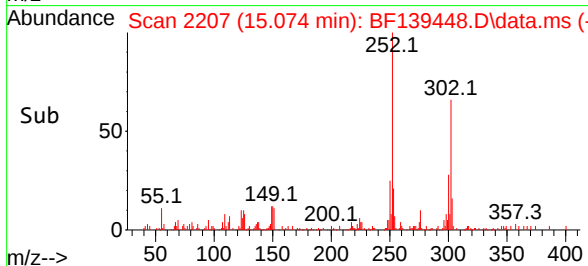
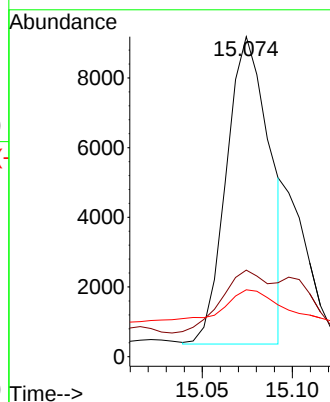
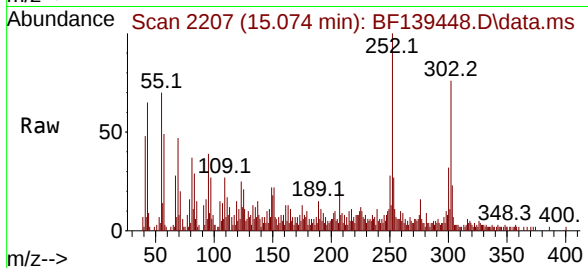
Tgt Ion:252 Resp: 1475

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 27.1  | 17.6  | 26.4  |
| 125 | 20.9  | 6.2   | 9.2   |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#90

Benzo(a)pyrene

Concen: 2.876 ng

RT: 15.439 min Scan# 2269

Delta R.T. 0.006 min

Lab File: BF139448.D

Acq: 19 Sep 2024 01:57

Tgt Ion:252 Resp: 11112

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 29.6  | 17.3  | 25.9  |
| 125 | 21.0  | 6.8   | 10.2  |

