

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091824\  
 Data File : BF139433.D  
 Acq On : 18 Sep 2024 18:50  
 Operator : RC/JU  
 Sample : P3984-01DL 10X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-A-COMPDL

Manual Integrations  
 APPROVED

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

Quant Time: Sep 19 01:28:30 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  | 66918    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.157  | 136  | 251794   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.910  | 164  | 133484   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.392 | 188  | 223401   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.033 | 240  | 121358   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.498 | 264  | 139149   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.487  | 112  | 40422    | 9.854  | ng    | 0.00     |
| 7) Phenol-d6                | 6.492  | 99   | 54960    | 10.208 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.434  | 82   | 36335    | 6.784  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.692 | 330  | 11693    | 8.228  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.228  | 172  | 72247    | 7.591  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.974 | 244  | 52001    | 7.033  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.422 | 178  | 244337   | 22.670 | ng    | 100      |
| 72) Anthracene              | 11.469 | 178  | 54523    | 5.174  | ng    | 98       |
| 73) Carbazole               | 11.622 | 167  | 28333    | 2.809  | ng    | 100      |
| 75) Fluoranthene            | 12.604 | 202  | 287043   | 24.938 | ng    | 99       |
| 78) Pyrene                  | 12.833 | 202  | 224121   | 21.508 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.021 | 228  | 125244   | 15.580 | ng    | 97       |
| 83) Chrysene                | 14.057 | 228  | 95634    | 12.931 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.962 | 276  | 46627    | 5.635  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.074 | 252  | 144288m  | 16.813 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.086 | 252  | 53075m   | 6.708  | ng    |          |
| 90) Benzo(a)pyrene          | 15.433 | 252  | 100425   | 14.110 | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 17.404 | 276  | 39649    | 5.857  | ng    | 96       |
| -----                       |        |      |          |        |       |          |

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

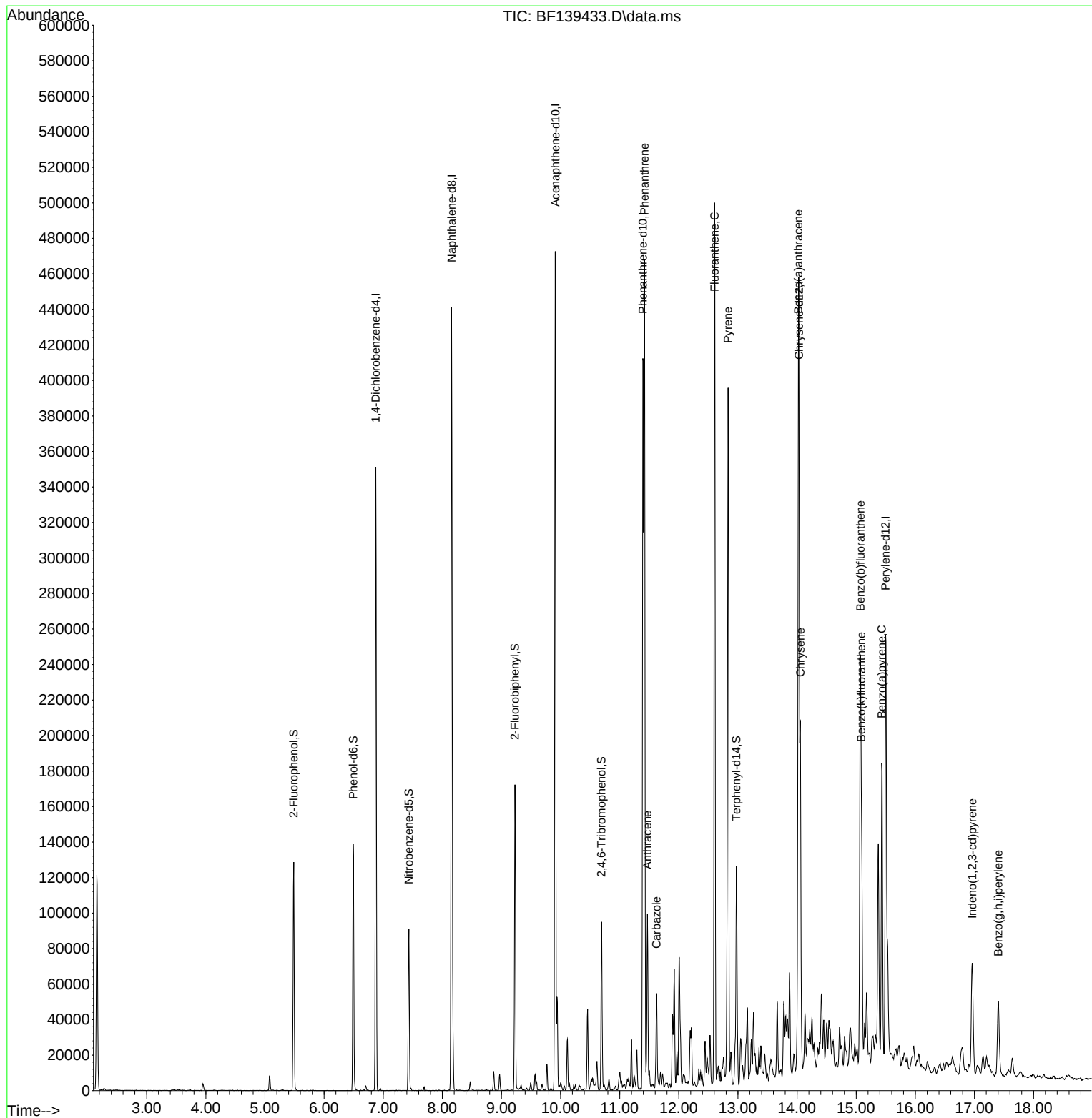
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091824\  
Data File : BF139433.D  
Acq On : 18 Sep 2024 18:50  
Operator : RC/JU  
Sample : P3984-01DL 10X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

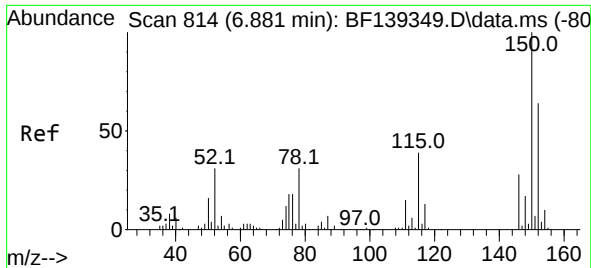
Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL

Quant Time: Sep 19 01:28:30 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

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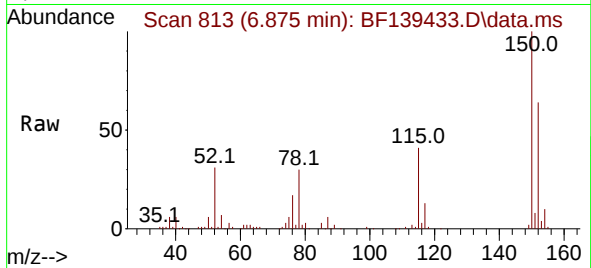
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

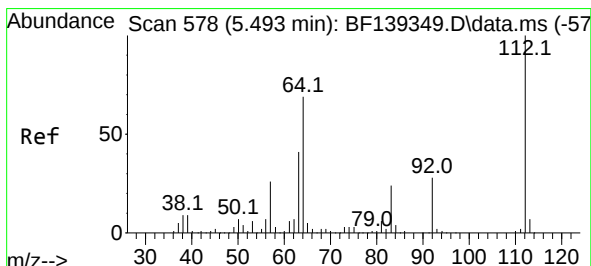
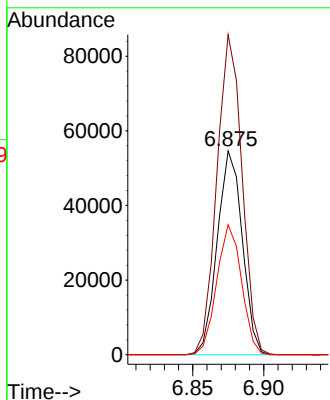
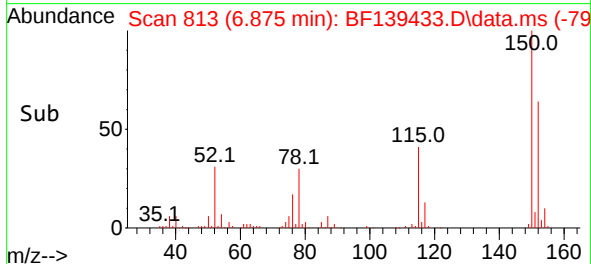
Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL



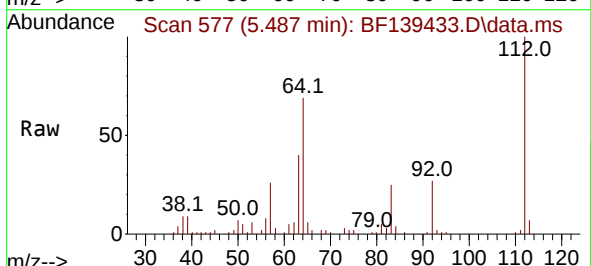
Tgt Ion:152 Resp: 66918  
Ion Ratio Lower Upper  
152 100  
150 157.1 124.1 186.1  
115 63.8 48.1 72.1

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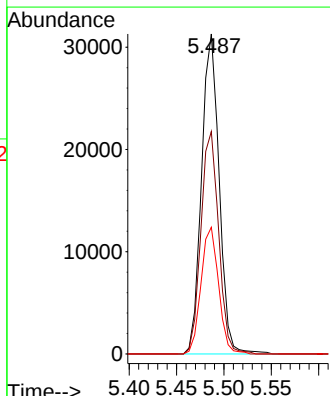
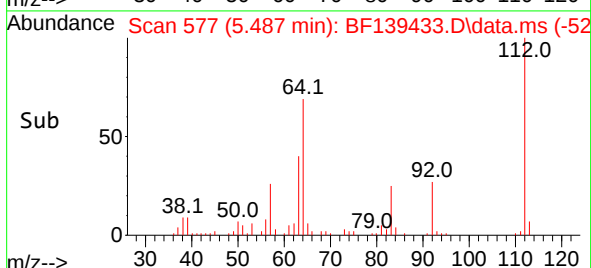
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024

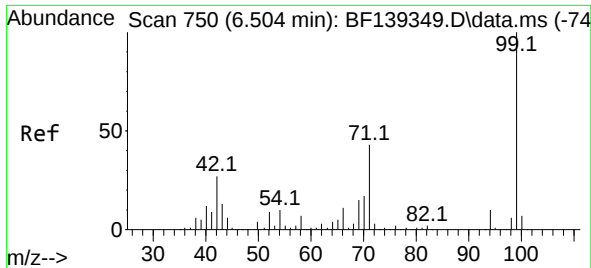


#5  
2-Fluorophenol  
Concen: 9.854 ng  
RT: 5.487 min Scan# 577  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50



Tgt Ion:112 Resp: 40422  
Ion Ratio Lower Upper  
112 100  
64 69.5 54.8 82.2  
63 39.6 33.0 49.4





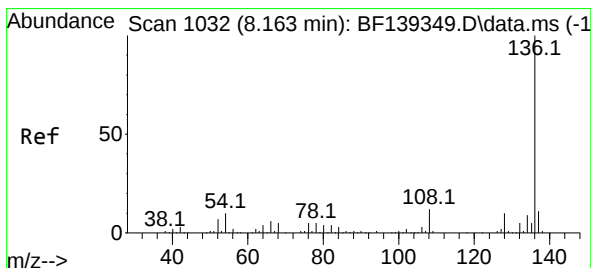
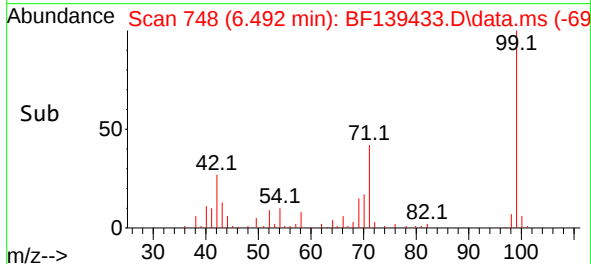
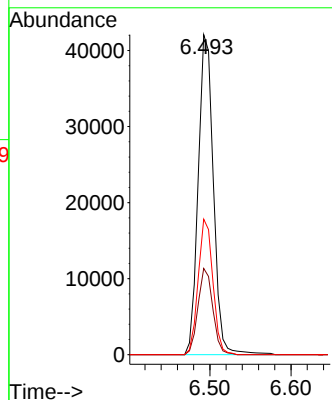
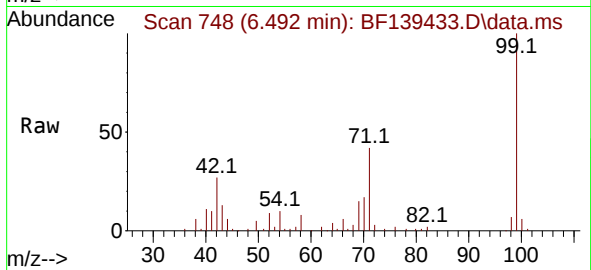
#7  
Phenol-d6  
Concen: 10.208 ng  
RT: 6.492 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL

Tgt Ion: 99 Resp: 54960  
Ion Ratio Lower Upper  
99 100  
42 26.9 21.9 32.9  
71 42.3 34.6 52.0

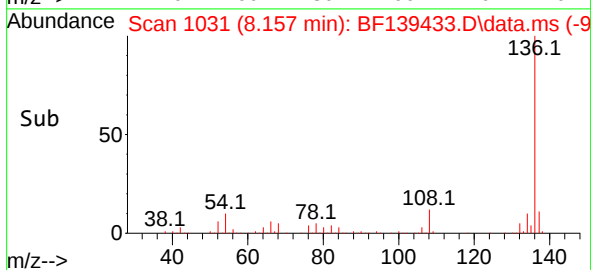
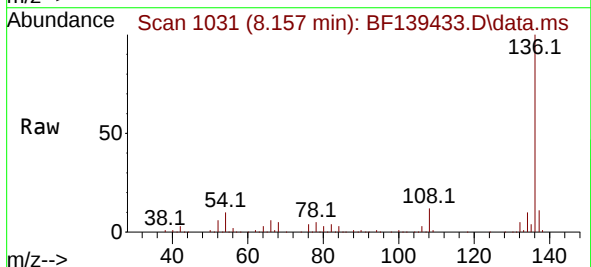
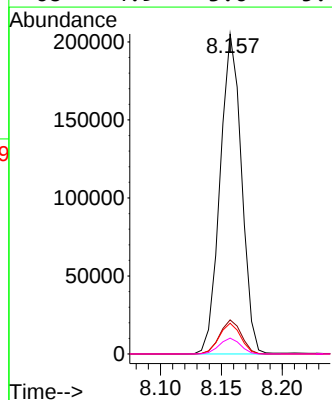
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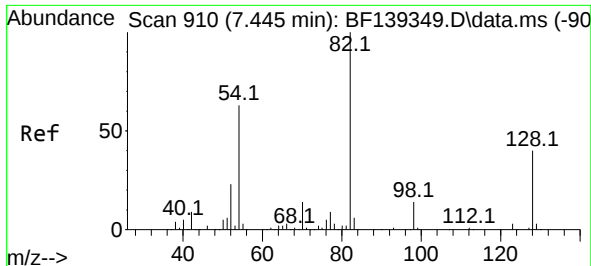
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

Tgt Ion:136 Resp: 251794  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.6 12.8  
54 9.6 7.8 11.8  
68 4.9 3.6 5.4





#23

Nitrobenzene-d5

Concen: 6.784 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF139433.D

Acq: 18 Sep 2024 18:50

Instrument :

BNA\_F

ClientSampleId :

WC-A-COMPDL

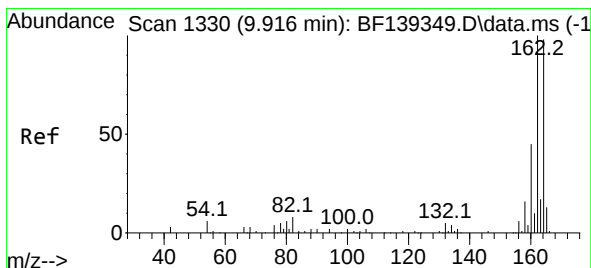
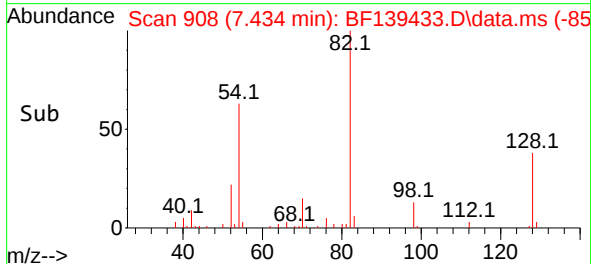
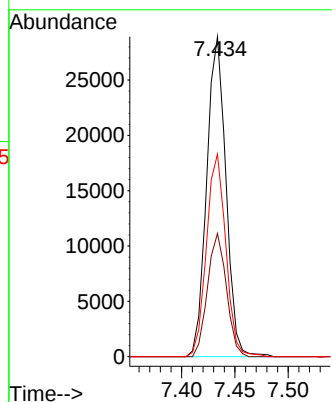
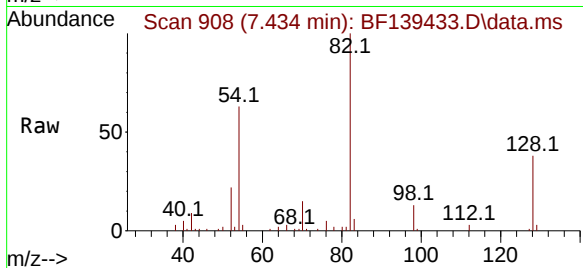
Tgt Ion: 82 Resp: 3633

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 38.5  | 31.8  | 47.6  |
| 54  | 63.3  | 50.6  | 75.8  |

Manual Integrations

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Supervised By :mohammad ahmed 09/20/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1329

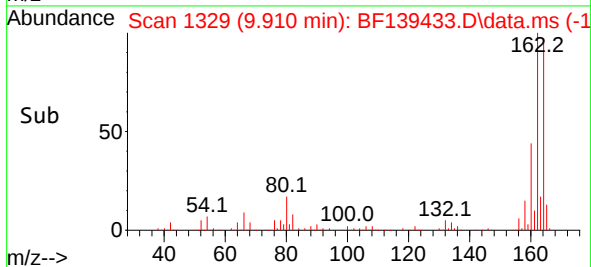
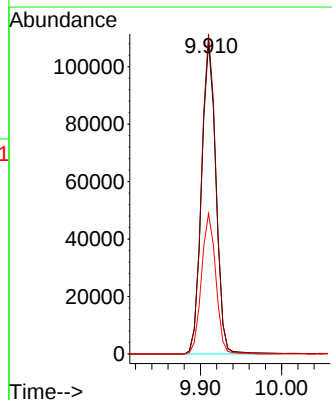
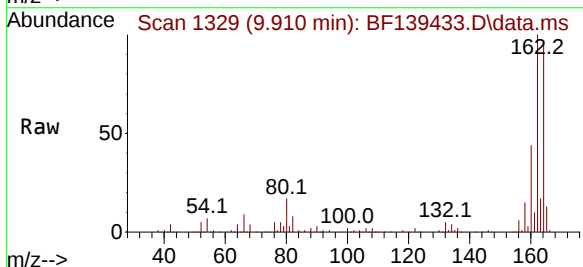
Delta R.T. -0.006 min

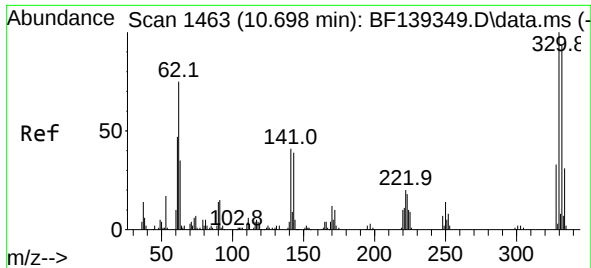
Lab File: BF139433.D

Acq: 18 Sep 2024 18:50

Tgt Ion:164 Resp: 133484

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 102.6 | 81.3  | 121.9 |
| 160 | 45.0  | 36.4  | 54.6  |





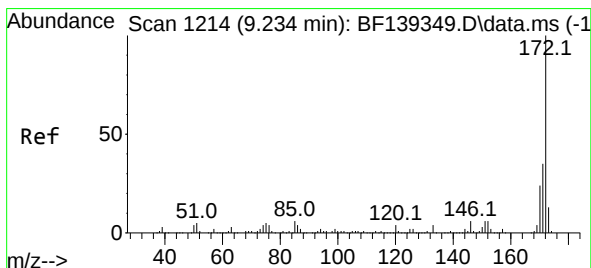
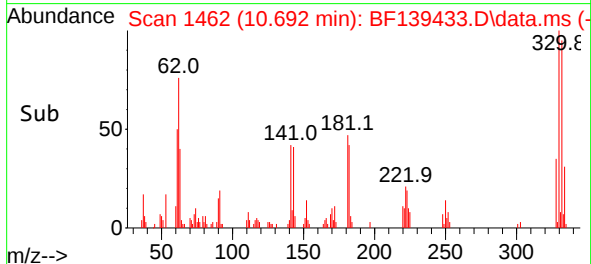
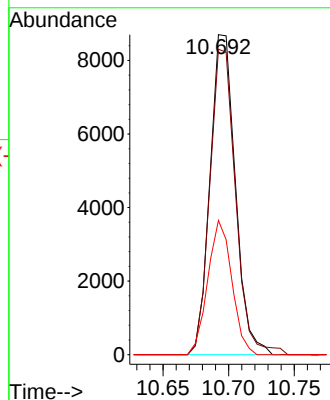
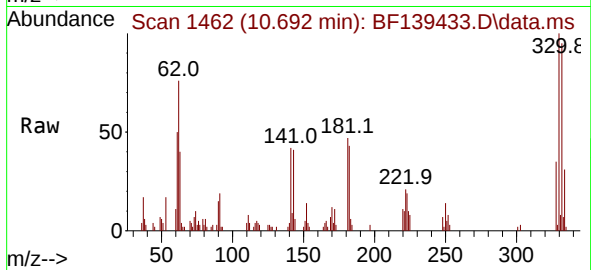
#42  
2,4,6-Tribromophenol  
Concen: 8.228 ng  
RT: 10.692 min Scan# 1462  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL

Tgt Ion: 330 Resp: 1169  
Ion Ratio Lower Upper  
330 100  
332 96.8 75.2 112.8  
141 39.8 31.2 46.8

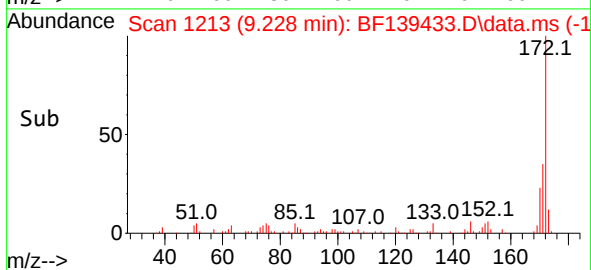
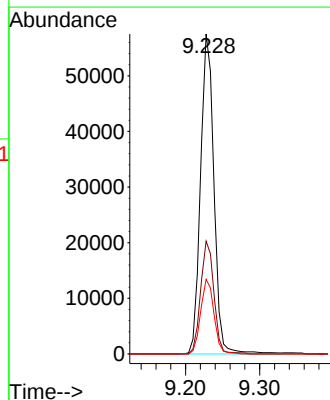
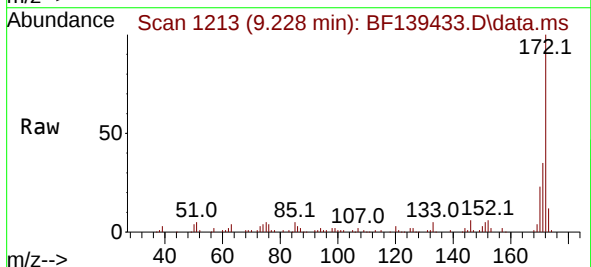
Manual Integrations  
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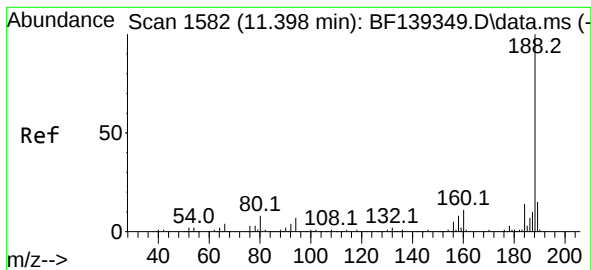
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#45  
2-Fluorobiphenyl  
Concen: 7.591 ng  
RT: 9.228 min Scan# 1213  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

Tgt Ion: 172 Resp: 72247  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.3 42.5  
170 23.3 19.0 28.6





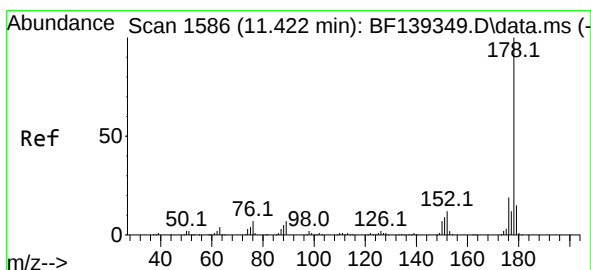
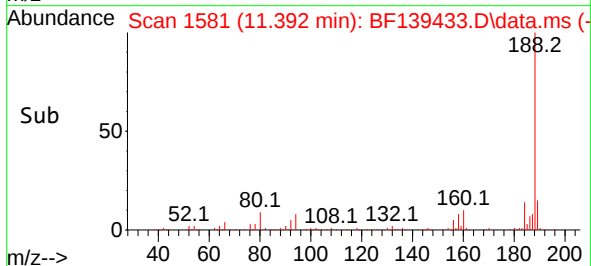
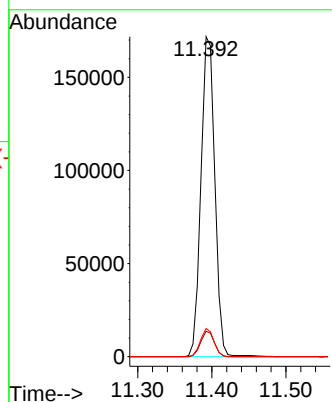
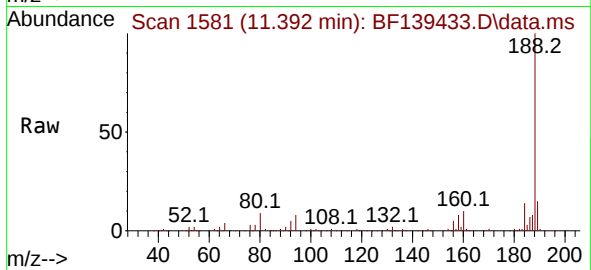
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.392 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL

Tgt Ion:188 Resp: 22340  
Ion Ratio Lower Upper  
188 100  
94 7.9 5.5 8.3  
80 8.8 6.6 9.8

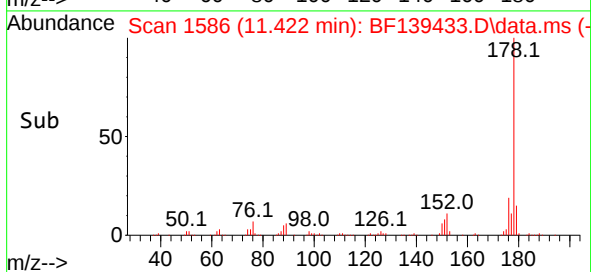
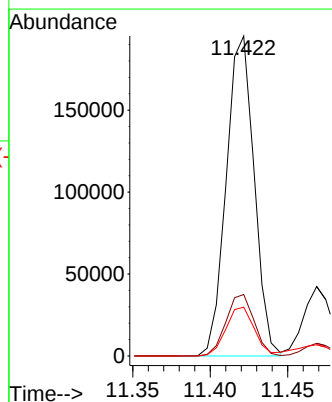
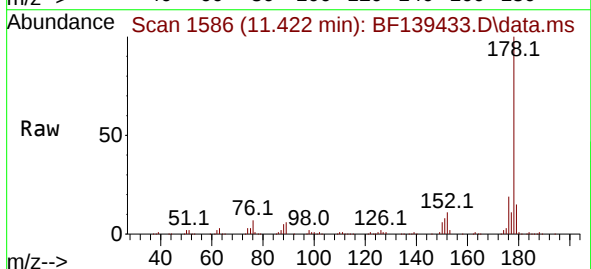
Manual Integrations  
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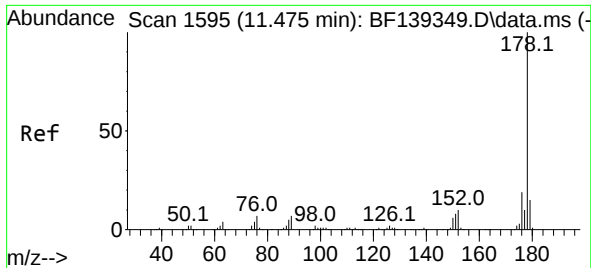
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#71  
Phenanthrene  
Concen: 22.670 ng  
RT: 11.422 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

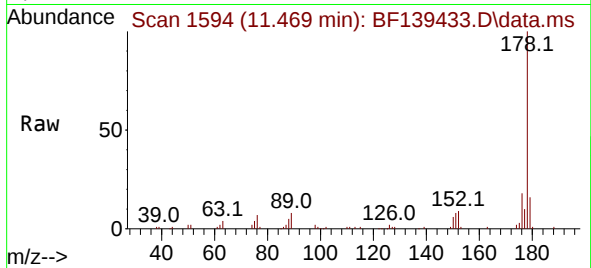
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Ion Ratio Lower Upper  
178 100  
176 19.2 15.2 22.8  
179 15.2 12.2 18.4





#72  
 Anthracene  
 Concen: 5.174 ng  
 RT: 11.469 min Scan# 11469  
 Delta R.T. -0.006 min  
 Lab File: BF139433.D  
 Acq: 18 Sep 2024 18:50

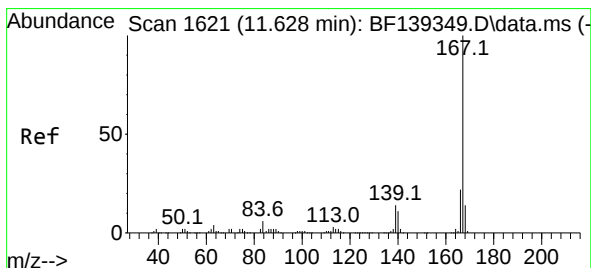
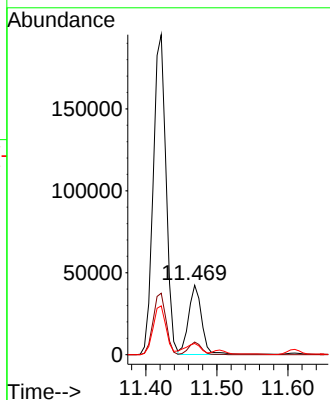
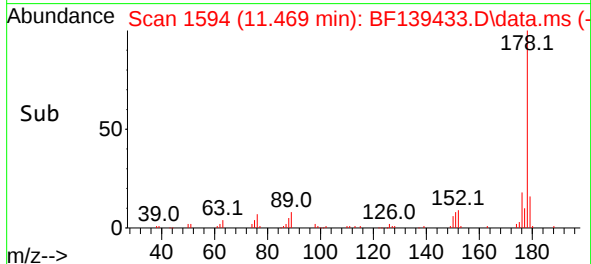
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-A-COMPDL



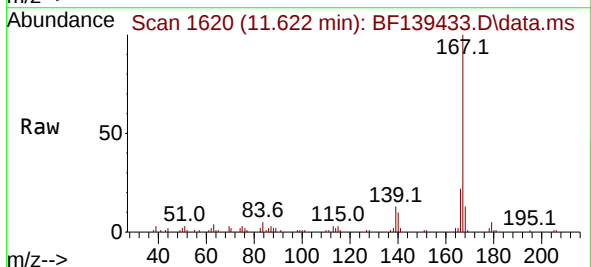
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 Ion Ratio Lower Upper  
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 176 18.2 15.0 22.6  
 179 16.1 12.0 18.0

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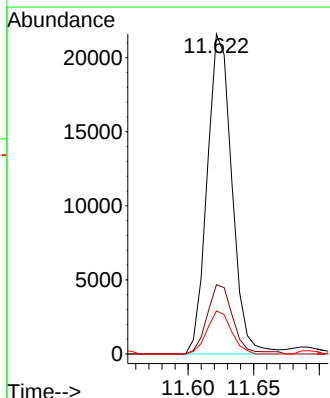
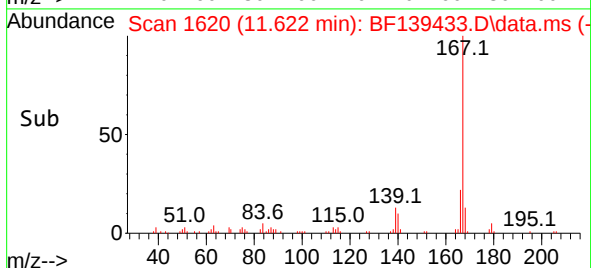
Reviewed By :Jagrut Upadhyay 09/19/2024  
 Supervised By :mohammad ahmed 09/20/2024

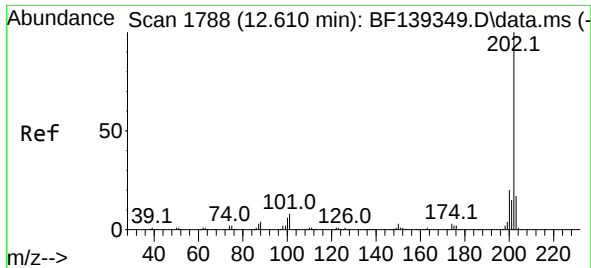


#73  
 Carbazole  
 Concen: 2.809 ng  
 RT: 11.622 min Scan# 1620  
 Delta R.T. -0.006 min  
 Lab File: BF139433.D  
 Acq: 18 Sep 2024 18:50



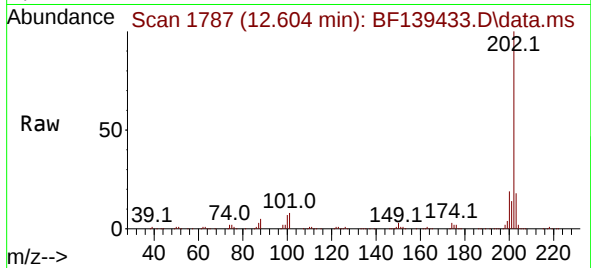
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 Ion Ratio Lower Upper  
 167 100  
 166 21.6 17.5 26.3  
 139 13.4 10.9 16.3





#75  
Fluoranthene  
Concen: 24.938 ng  
RT: 12.604 min Scan# 1787  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

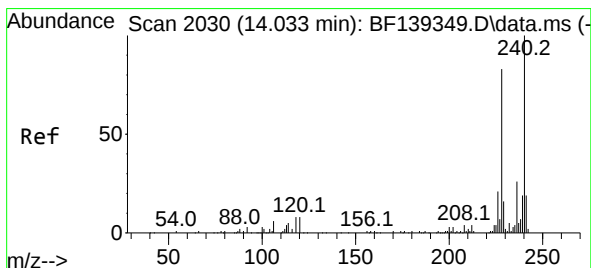
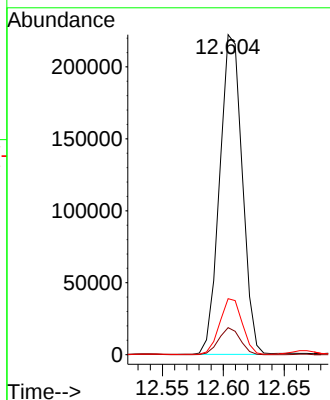
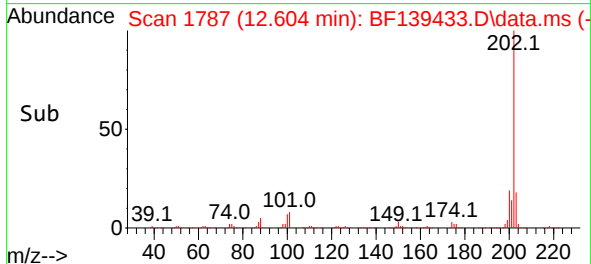
Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL



Tgt Ion:202 Resp: 28704  
Ion Ratio Lower Upper  
202 100  
101 8.5 0.0 27.7  
203 17.5 0.0 37.4

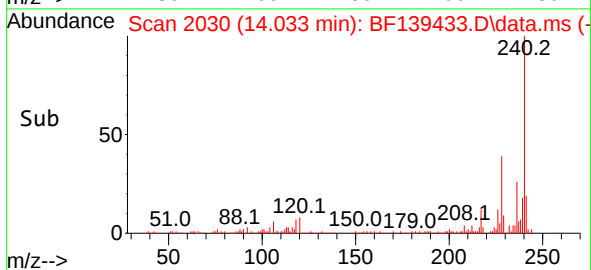
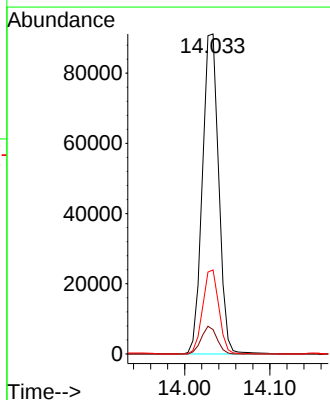
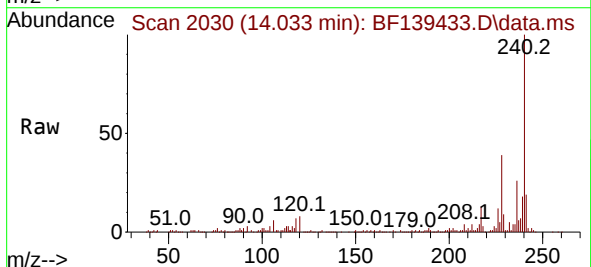
Manual Integrations  
APPROVED

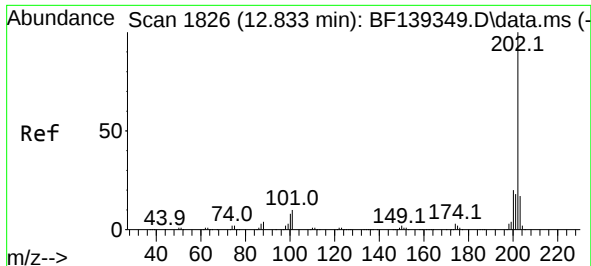
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.033 min Scan# 2030  
Delta R.T. -0.000 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

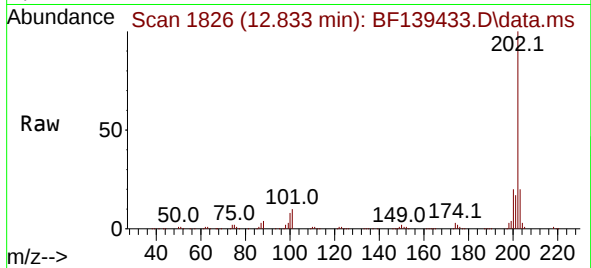
Tgt Ion:240 Resp: 121358  
Ion Ratio Lower Upper  
240 100  
120 7.6 6.2 9.2  
236 26.2 20.9 31.3





#78  
Pyrene  
Concen: 21.508 ng  
RT: 12.833 min Scan# 1826  
Delta R.T. -0.000 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

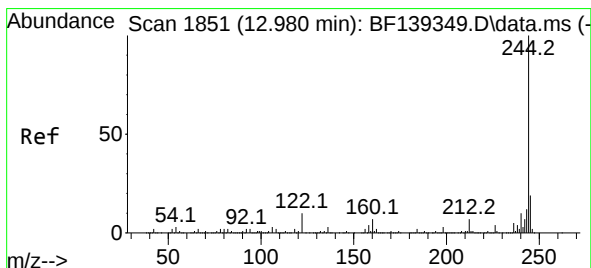
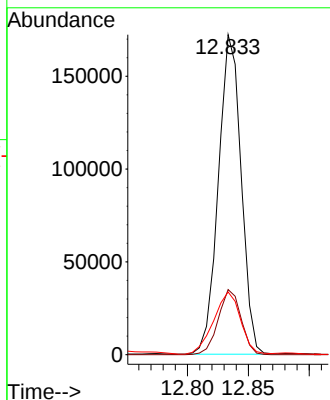
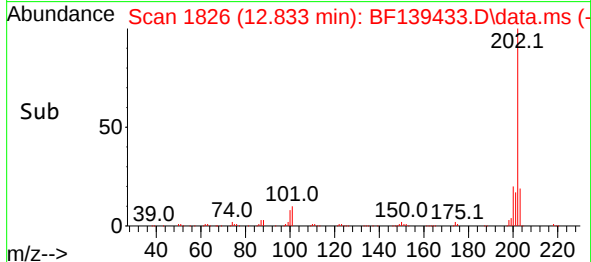
Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL



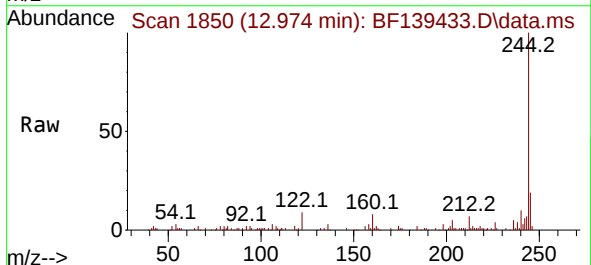
Tgt Ion:202 Resp: 22412  
Ion Ratio Lower Upper  
202 100  
200 20.3 16.2 24.2  
203 19.6 13.9 20.9

Manual Integrations  
APPROVED

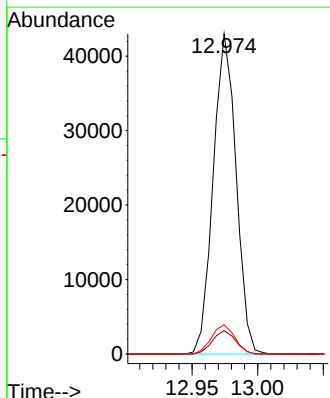
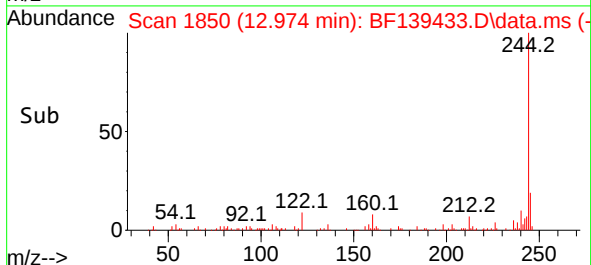
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024

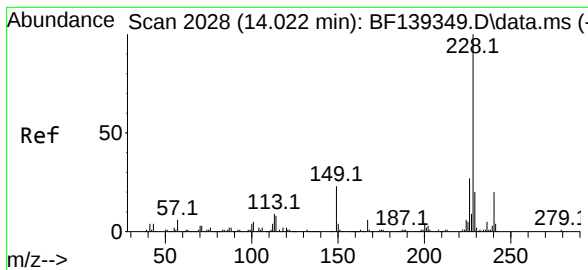


#79  
Terphenyl-d14  
Concen: 7.033 ng  
RT: 12.974 min Scan# 1850  
Delta R.T. -0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50



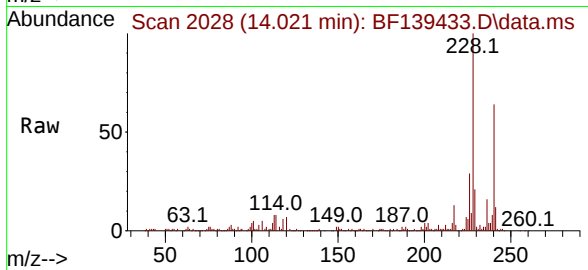
Tgt Ion:244 Resp: 52001  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.0 9.0  
122 9.2 7.6 11.4





#81  
Benzo(a)anthracene  
Concen: 15.580 ng  
RT: 14.021 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

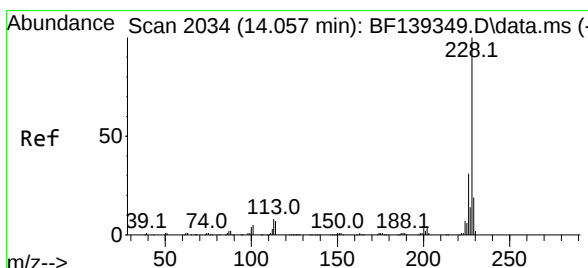
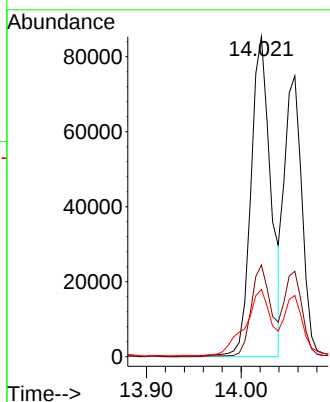
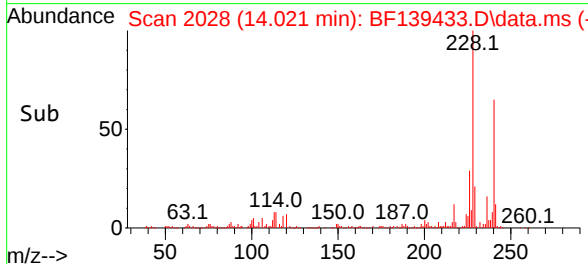
Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL



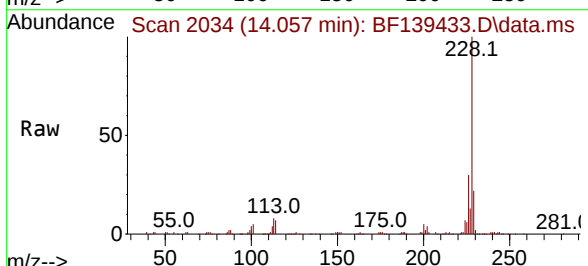
Tgt Ion:228 Resp: 125244  
Ion Ratio Lower Upper  
228 100  
226 28.6 21.6 32.4  
229 21.0 15.7 23.5

Manual Integrations  
APPROVED

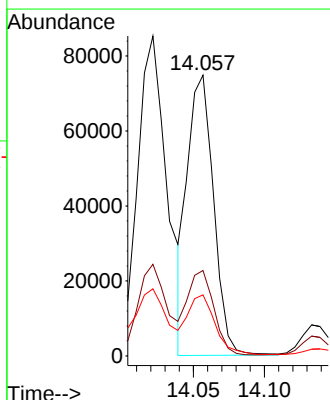
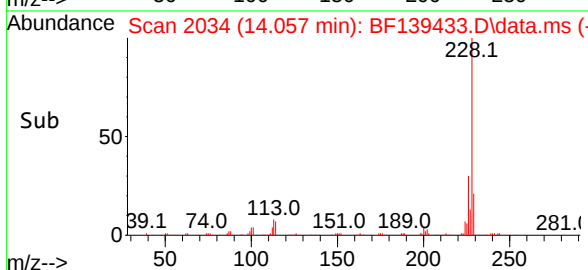
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024

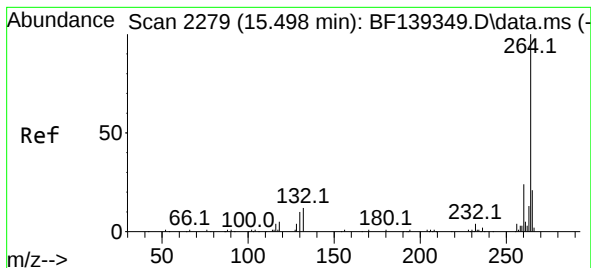


#83  
Chrysene  
Concen: 12.931 ng  
RT: 14.057 min Scan# 2034  
Delta R.T. -0.000 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50



Tgt Ion:228 Resp: 95634  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.1 36.1  
229 21.8 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139433.D

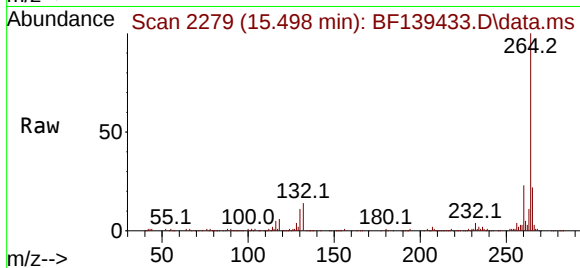
Acq: 18 Sep 2024 18:50

Instrument :

BNA\_F

ClientSampleId :

WC-A-COMPD



Tgt Ion:264 Resp: 139149

Ion Ratio Lower Upper

264 100

260 23.0 19.5 29.3

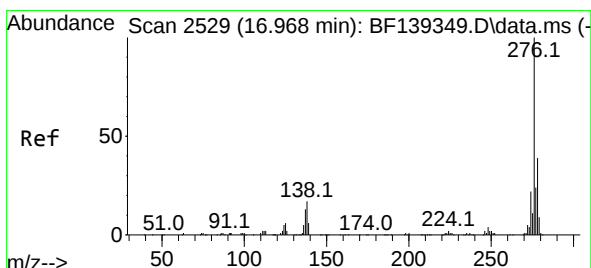
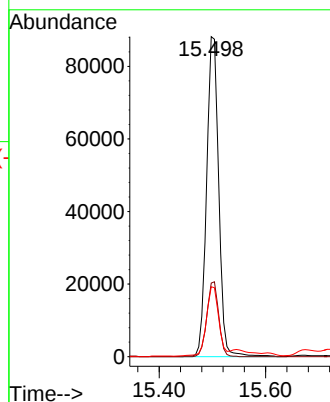
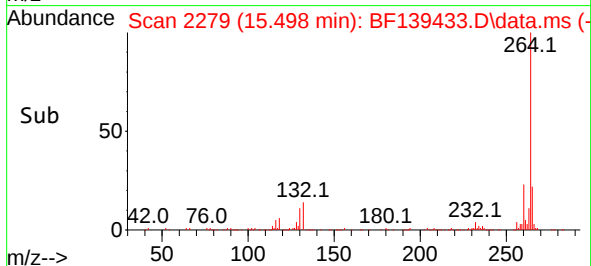
265 21.9 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2024

Supervised By :mohammad ahmed 09/20/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.635 ng

RT: 16.962 min Scan# 2528

Delta R.T. -0.006 min

Lab File: BF139433.D

Acq: 18 Sep 2024 18:50

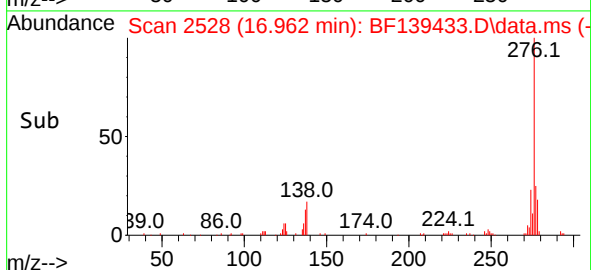
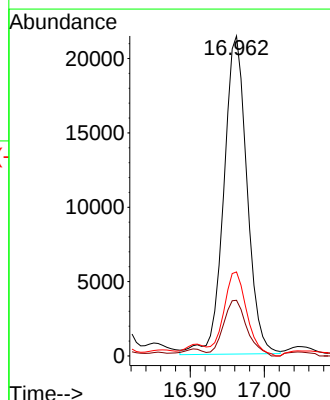
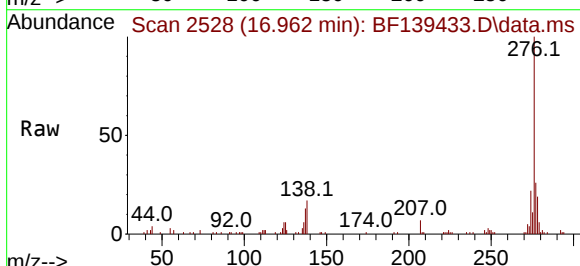
Tgt Ion:276 Resp: 46627

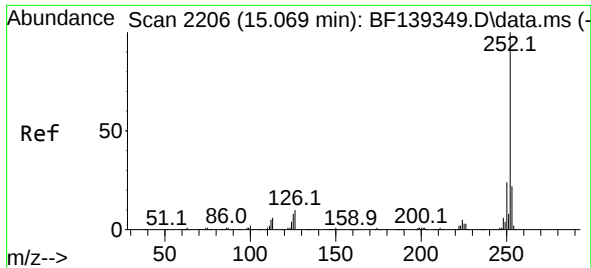
Ion Ratio Lower Upper

276 100

138 17.8 15.4 23.2

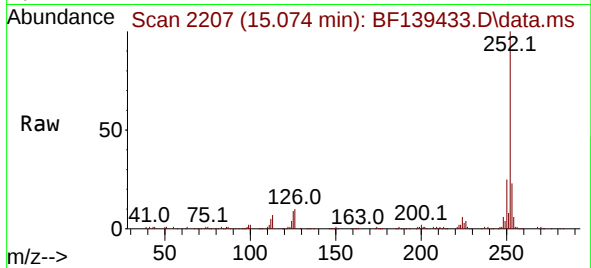
277 26.3 20.4 30.6





#88  
Benzo(b)fluoranthene  
Concen: 16.813 ng m  
RT: 15.074 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

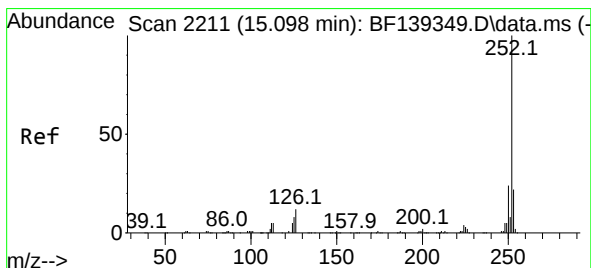
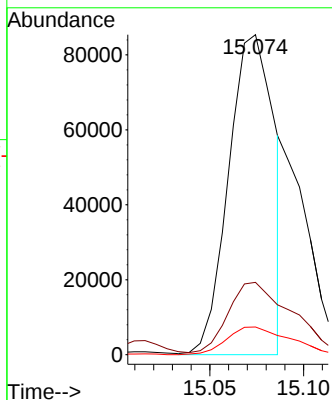
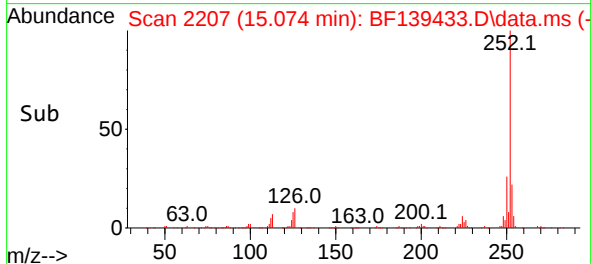
Instrument :  
BNA\_F  
ClientSampleId :  
WC-A-COMPDL



Tgt Ion:252 Resp: 144288  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.6 26.4  
125 8.7 6.2 9.2

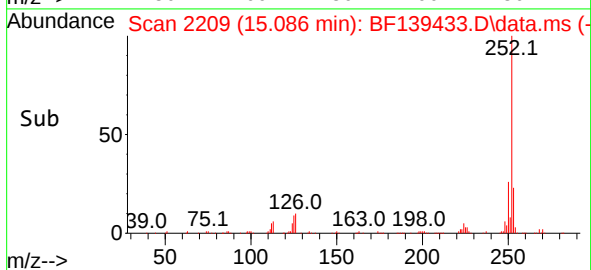
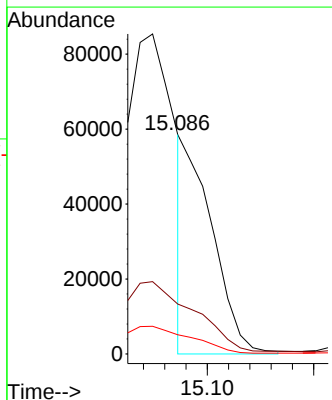
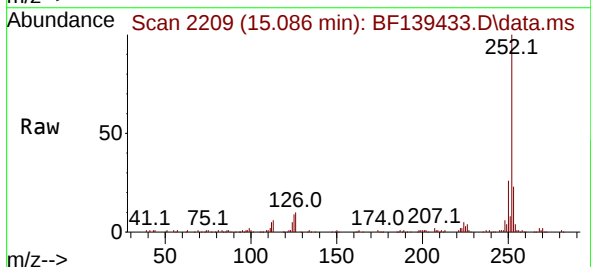
Manual Integrations  
APPROVED

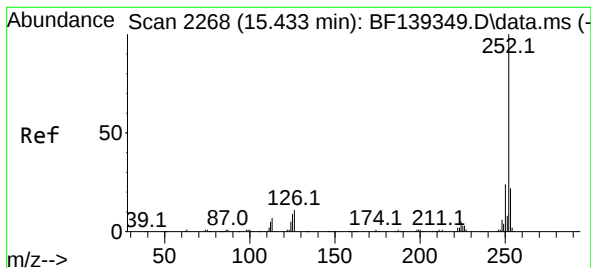
Reviewed By :Jagrut Upadhyay 09/19/2024  
Supervised By :mohammad ahmed 09/20/2024



#89  
Benzo(k)fluoranthene  
Concen: 6.708 ng m  
RT: 15.086 min Scan# 2209  
Delta R.T. -0.012 min  
Lab File: BF139433.D  
Acq: 18 Sep 2024 18:50

Tgt Ion:252 Resp: 53075  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.3 25.9  
125 8.8 5.9 8.9





#90

Benzo(a)pyrene

Concen: 14.110 ng

RT: 15.433 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139433.D

Acq: 18 Sep 2024 18:50

Instrument :

BNA\_F

ClientSampleId :

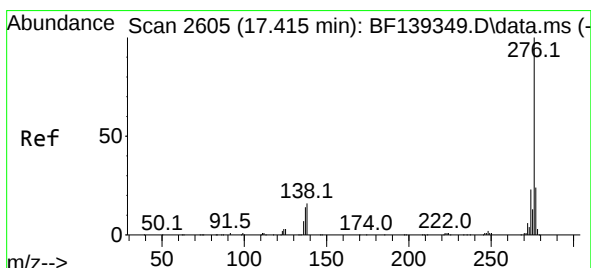
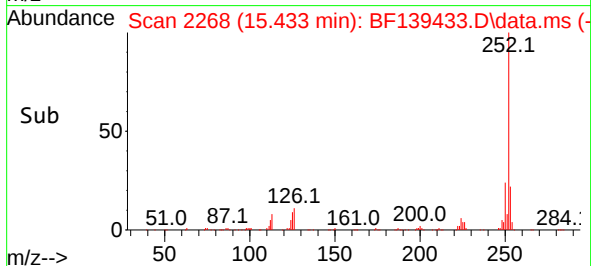
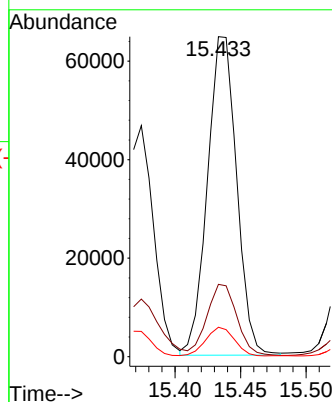
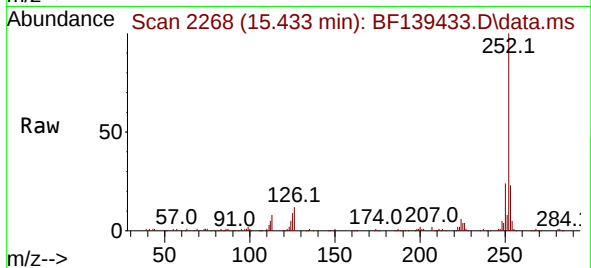
WC-A-COMPDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 10042 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.6  | 17.3  | 25.9  |
| 125       | 9.2   | 6.8   | 10.2  |

Manual Integrations

APPROVED

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



#92

Benzo(g,h,i)perylene

Concen: 5.857 ng

RT: 17.404 min Scan# 2603

Delta R.T. -0.012 min

Lab File: BF139433.D

Acq: 18 Sep 2024 18:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 39649 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.3  | 18.9  | 28.3  |
| 138       | 18.3  | 13.0  | 19.6  |

