

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121823\  
 Data File : BF136626.D  
 Acq On : 18 Dec 2023 21:17  
 Operator : CG\JU  
 Sample : 05485-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AU-14-STOCKPILE-BIN-5

Quant Time: Dec 19 01:07:07 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 19 00:56:37 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/19/2023  
 Supervised By :mohammad ahmed 12/19/2023

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 ahmed

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.786  | 152  | 69917    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.063  | 136  | 234125   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.822  | 164  | 99912    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.316 | 188  | 200489   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.968 | 240  | 188171   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12            | 15.451 | 264  | 135130   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.434  | 112  | 604475   | 127.681 | ng    | 0.00     |
| 7) Phenol-d6                | 6.434  | 99   | 698069   | 118.182 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.351  | 82   | 395273   | 91.270  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.616 | 330  | 162641   | 132.022 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.145  | 172  | 698417   | 95.383  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.915 | 244  | 983687   | 68.902  | ng    | 0.00     |
| Target Compounds            |        |      |          |         |       |          |
|                             |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.339 | 178  | 72113    | 6.544   | ng    | 99       |
| 75) Fluoranthene            | 12.533 | 202  | 115786   | 10.026  | ng    | 95       |
| 78) Pyrene                  | 12.763 | 202  | 138154   | 7.497   | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.957 | 228  | 74109m   | 5.654   | ng    |          |
| 83) Chrysene                | 13.998 | 228  | 69514    | 5.390   | ng    | # 96     |
| 87) Indeno(1,2,3-cd)pyrene  | 16.956 | 276  | 23395    | 2.492   | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.015 | 252  | 61192m   | 6.623   | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.039 | 252  | 21289m   | 2.445   | ng    |          |
| 90) Benzo(a)pyrene          | 15.386 | 252  | 45288    | 5.935   | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 17.415 | 276  | 22189    | 2.811   | ng    | 98       |
| -----                       |        |      |          |         |       |          |

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

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Sample : 05485-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-14-STOCKPILE-BIN-5

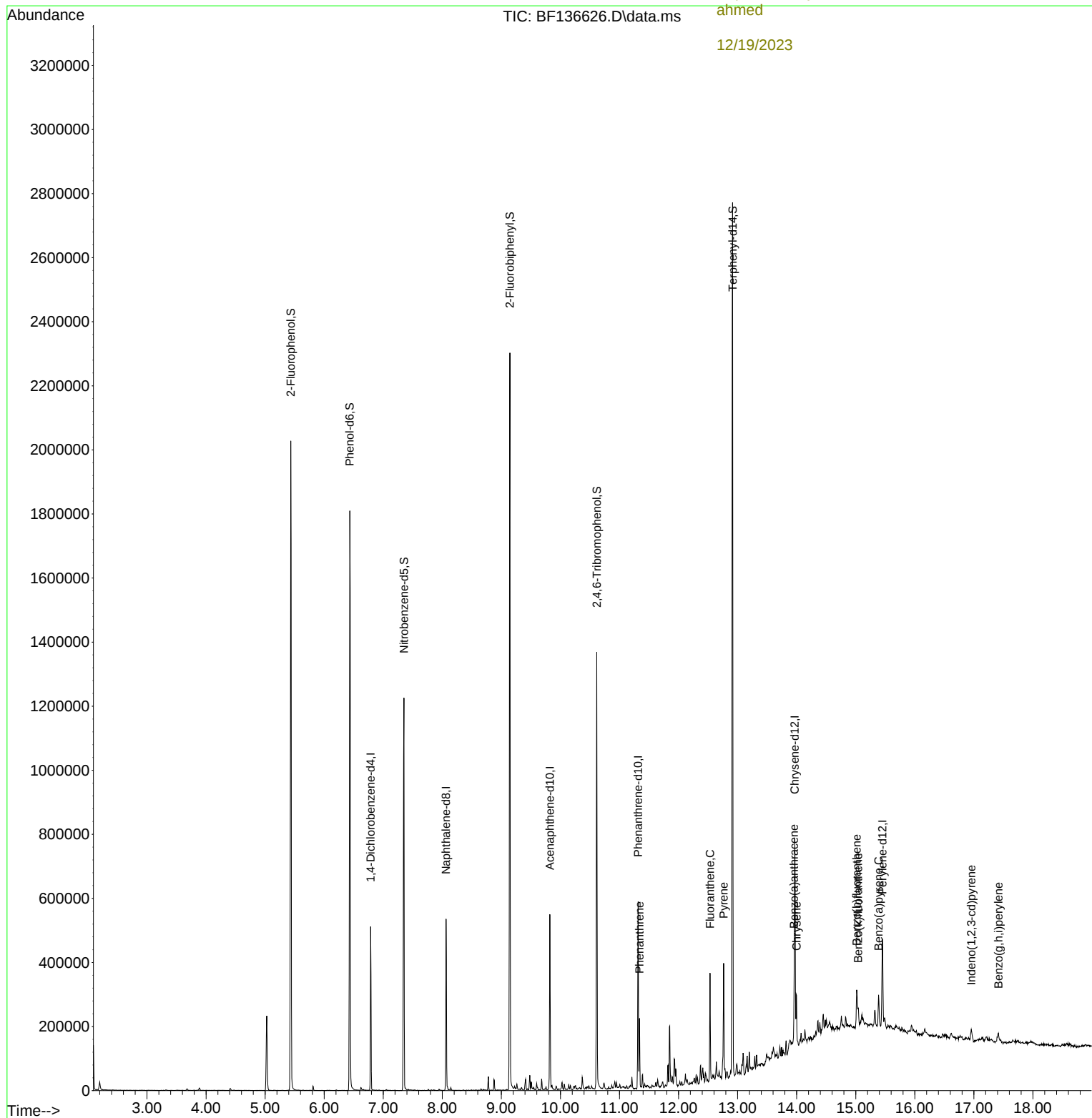
Quant Time: Dec 19 01:07:07 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 19 00:56:37 2023  
Response via : Initial Calibration

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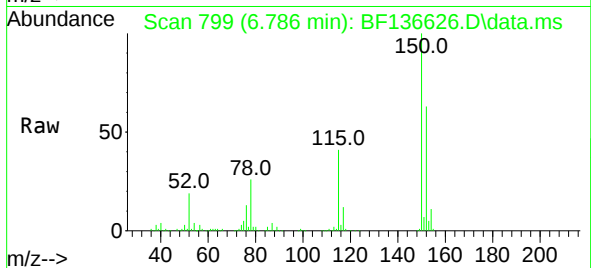
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#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.786 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Instrument :  
BNA\_F  
ClientSampleId :  
AU-14-STOCKPILE-BIN-5



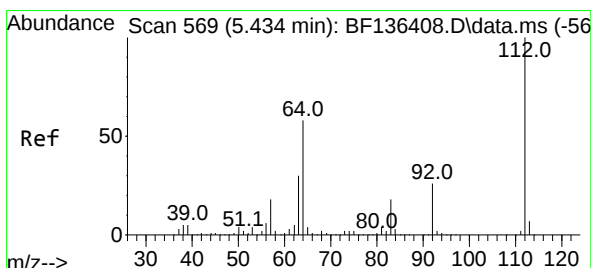
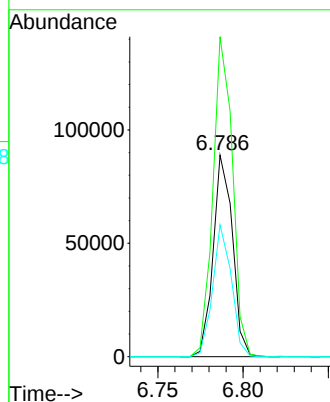
Tgt Ion:152 Resp: 6991  
Ion Ratio Lower Upper  
152 100  
150 158.8 126.4 189.6  
115 65.4 48.2 72.4

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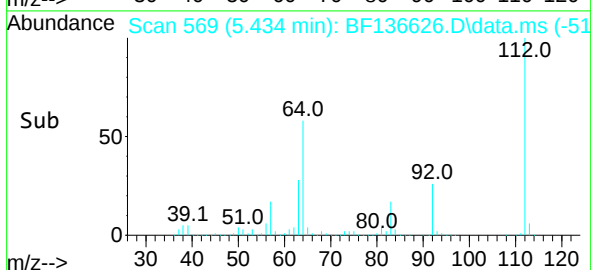
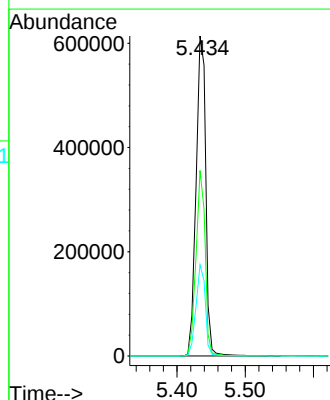
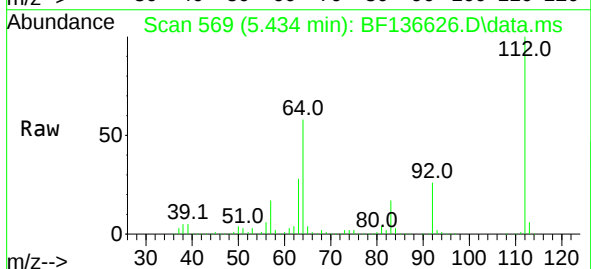
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#5  
2-Fluorophenol  
Concen: 127.681 ng  
RT: 5.434 min Scan# 569  
Delta R.T. 0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

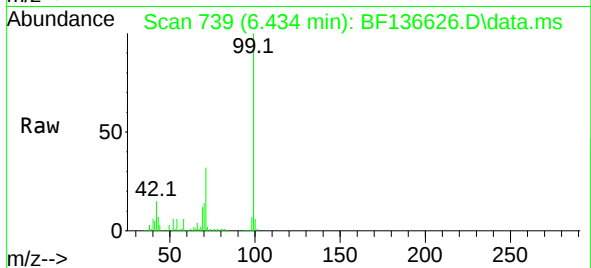
Tgt Ion:112 Resp: 604475  
Ion Ratio Lower Upper  
112 100  
64 58.0 46.5 69.7  
63 28.5 23.9 35.9





#7  
Phenol-d6  
Concen: 118.182 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Instrument :  
BNA\_F  
ClientSampleId :  
AU-14-STOCKPILE-BIN-5



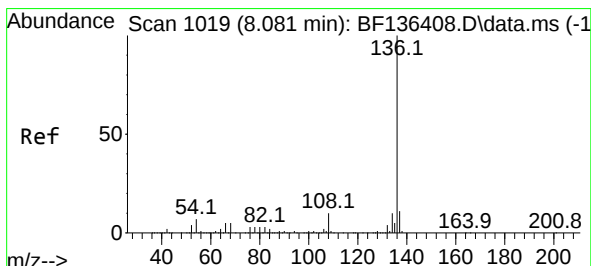
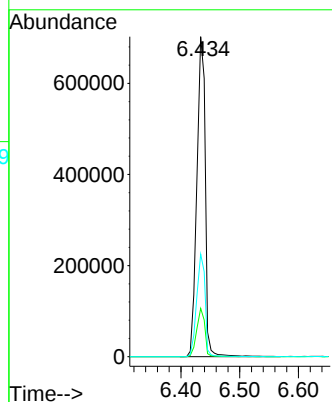
Tgt Ion: 99 Resp: 698069  
Ion Ratio Lower Upper  
99 100  
42 15.1 12.8 19.2  
71 32.0 27.0 40.4

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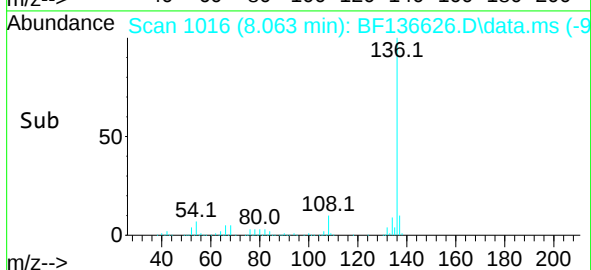
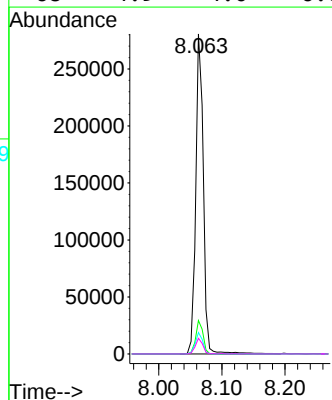
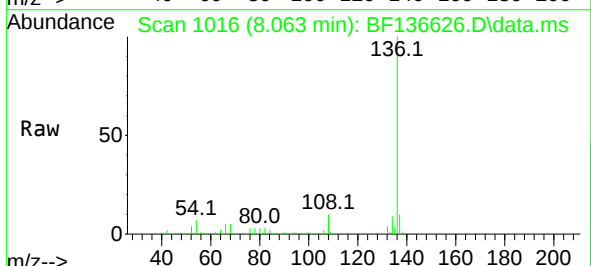
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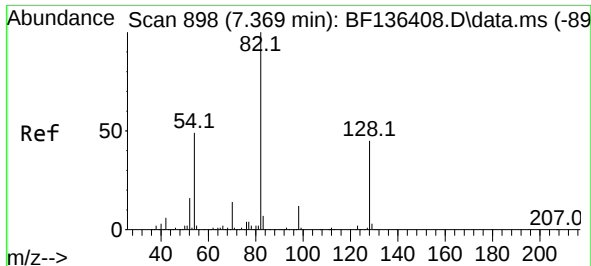
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.063 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Tgt Ion:136 Resp: 234125  
Ion Ratio Lower Upper  
136 100  
137 10.4 8.6 12.8  
54 6.7 5.7 8.5  
68 4.9 4.0 6.0





#23

Nitrobenzene-d5

Concen: 91.270 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF136626.D

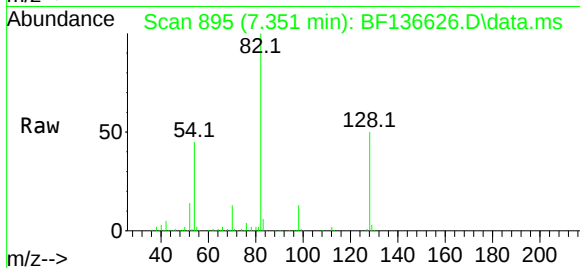
Acq: 18 Dec 2023 21:17

Instrument :

BNA\_F

ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 39527 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 50.3  | 36.3  | 54.5  |
| 54        | 45.4  | 39.0  | 58.6  |

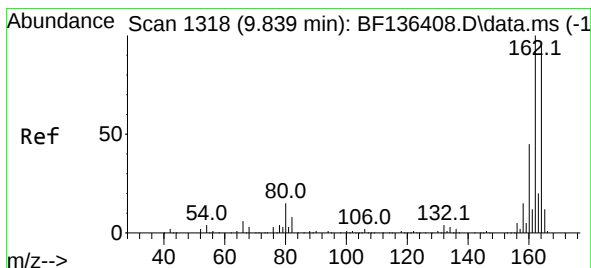
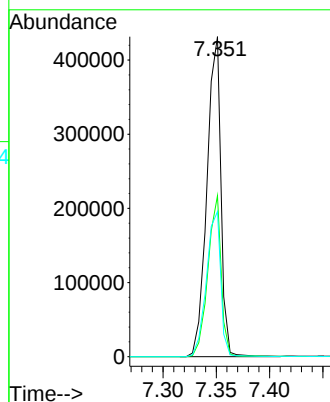
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#39

Acenaphthene-d10

Concen: 20.000 ng

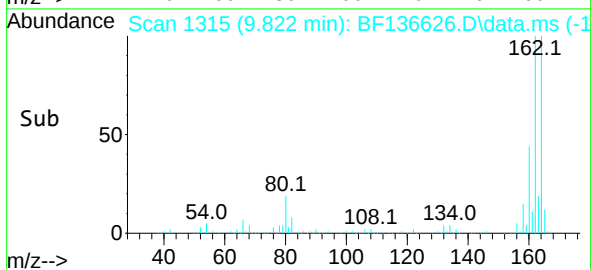
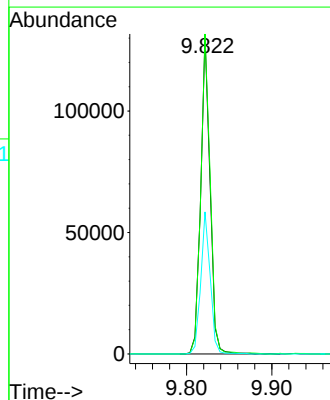
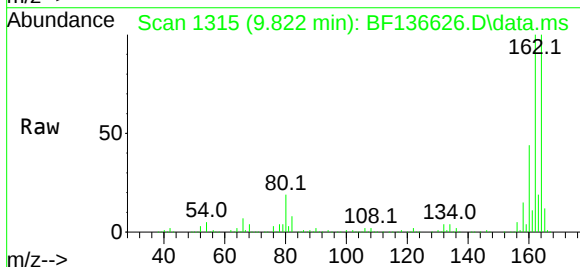
RT: 9.822 min Scan# 1315

Delta R.T. -0.006 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 99912 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 100.4 | 84.4  | 126.6 |
| 160       | 44.6  | 37.6  | 56.4  |





#42

2,4,6-Tribromophenol

Concen: 132.022 ng

RT: 10.616 min Scan# 1453

Delta R.T. -0.012 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

Instrument :

BNA\_F

ClientSampleId :

AU-14-STOCKPILE-BIN-5

Tgt Ion:330 Resp: 16264

Ion Ratio Lower Upper

330 100

332 97.3 76.4 114.6

141 28.7 23.4 35.2

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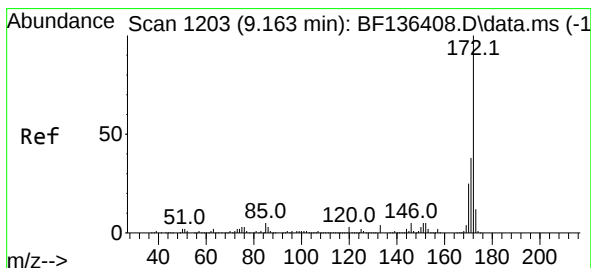
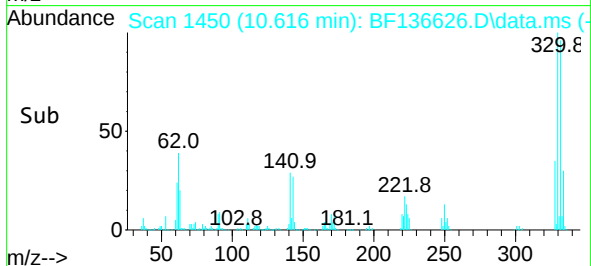
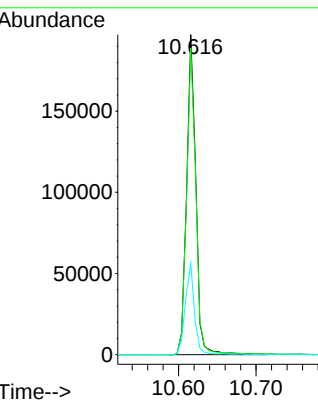
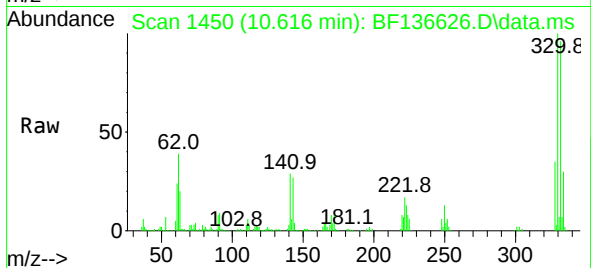
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#45

2-Fluorobiphenyl

Concen: 95.383 ng

RT: 9.145 min Scan# 1200

Delta R.T. -0.006 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

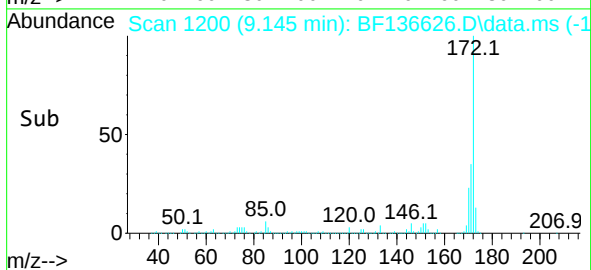
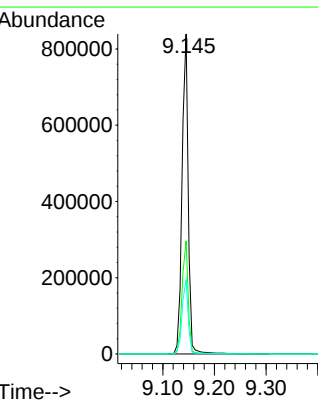
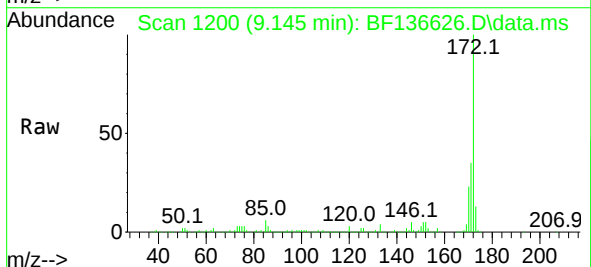
Tgt Ion:172 Resp: 698417

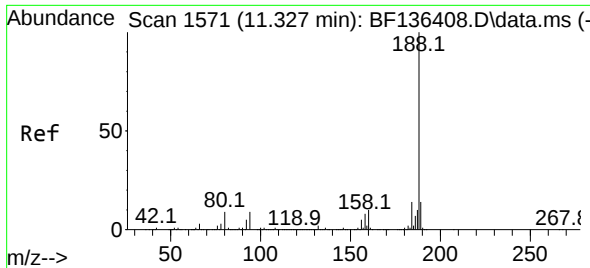
Ion Ratio Lower Upper

172 100

171 35.4 30.5 45.7

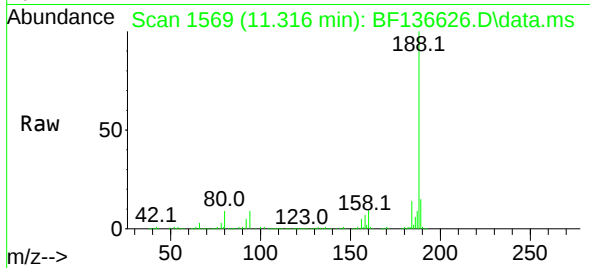
170 23.1 19.9 29.9





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.316 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Instrument :  
BNA\_F  
ClientSampleId :  
AU-14-STOCKPILE-BIN-5



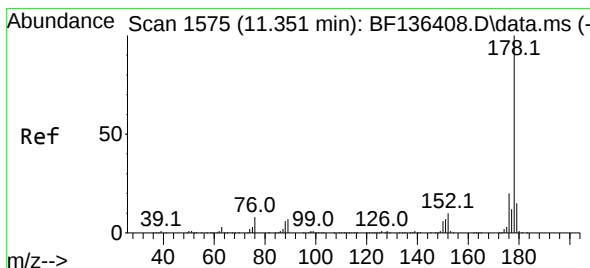
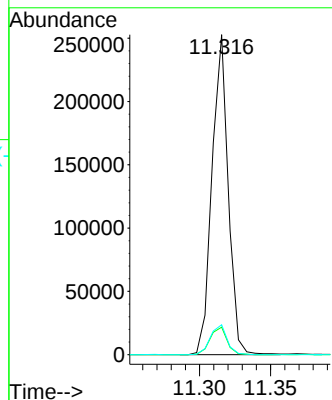
Tgt Ion:188 Resp: 200489  
Ion Ratio Lower Upper  
188 100  
94 8.6 7.2 10.8  
80 9.4 7.2 10.8

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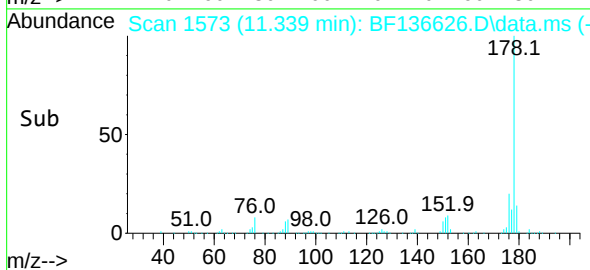
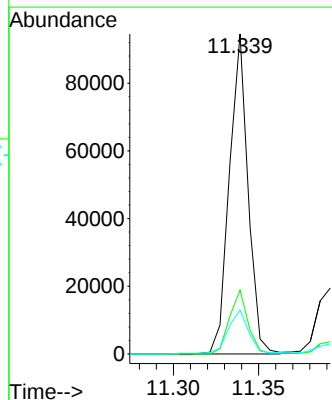
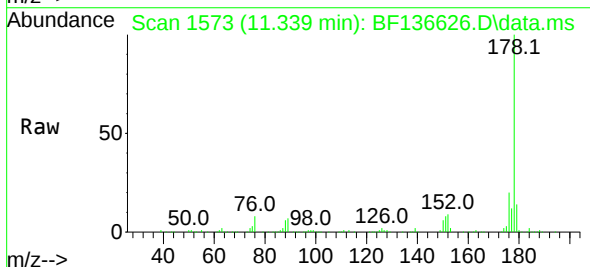
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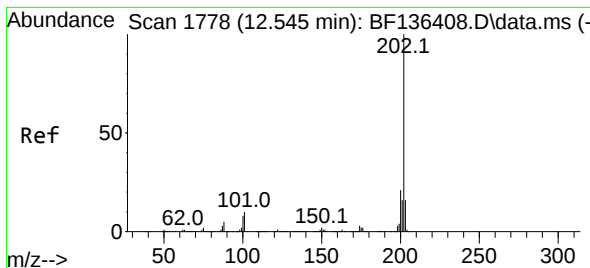
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#71  
Phenanthrene  
Concen: 6.544 ng  
RT: 11.339 min Scan# 1573  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

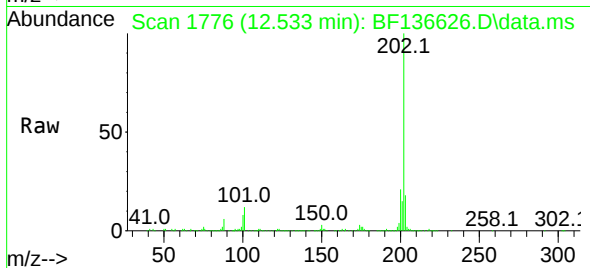
Tgt Ion:178 Resp: 72113  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.9 23.9  
179 13.7 11.8 17.6





#75  
Fluoranthene  
Concen: 10.026 ng  
RT: 12.533 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Instrument :  
BNA\_F  
ClientSampleId :  
AU-14-STOCKPILE-BIN-5



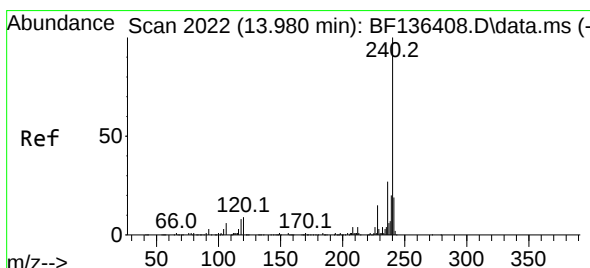
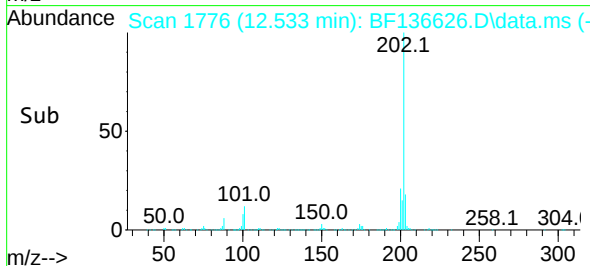
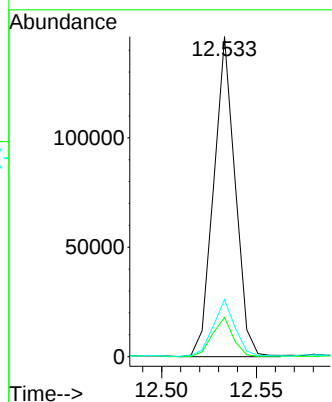
Tgt Ion:202 Resp: 115780  
Ion Ratio Lower Upper  
202 100  
101 12.3 0.0 29.9  
203 17.9 0.0 36.3

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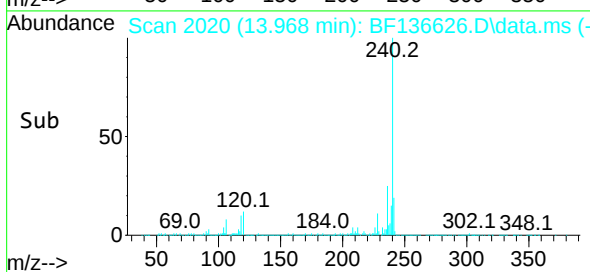
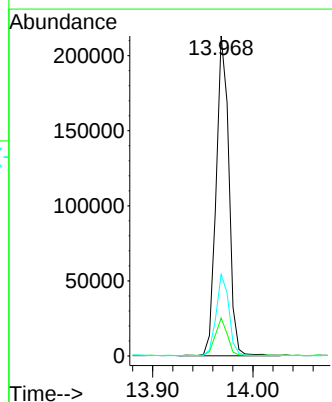
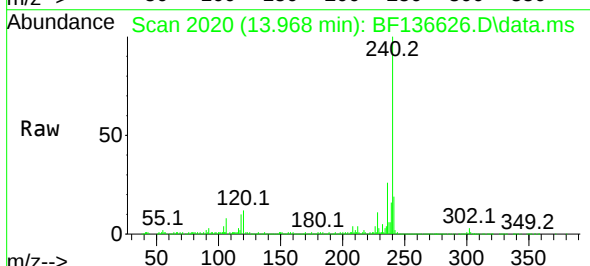
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ahmed

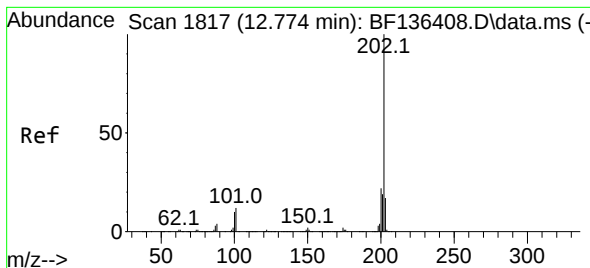
12/19/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.968 min Scan# 2020  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Tgt Ion:240 Resp: 188171  
Ion Ratio Lower Upper  
240 100  
120 11.8 7.3 10.9#  
236 25.5 21.3 31.9





#78

Pyrene

Concen: 7.497 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.012 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

Instrument :

BNA\_F

ClientSampleId :

AU-14-STOCKPILE-BIN-5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 138154 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.9  | 18.0  | 27.0   |
| 203       | 18.5  | 13.5  | 20.3   |

Manual Integrations

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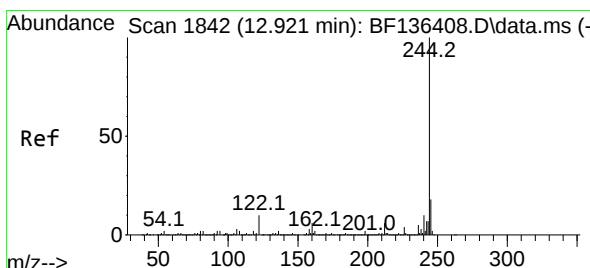
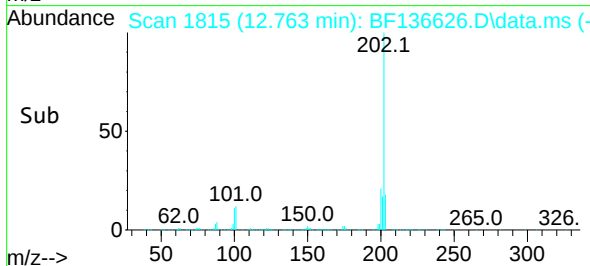
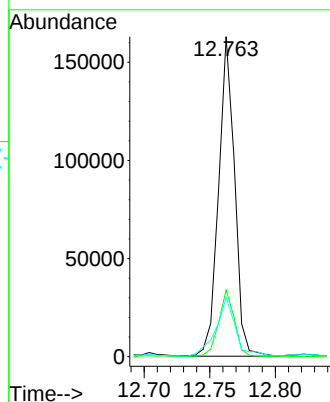
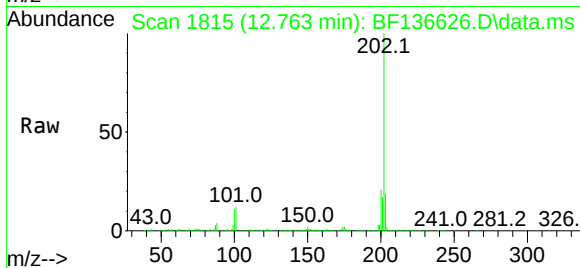
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#79

Terphenyl-d14

Concen: 68.902 ng

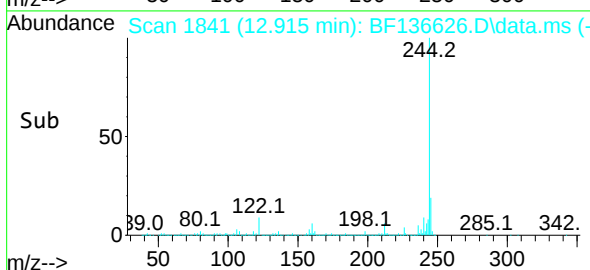
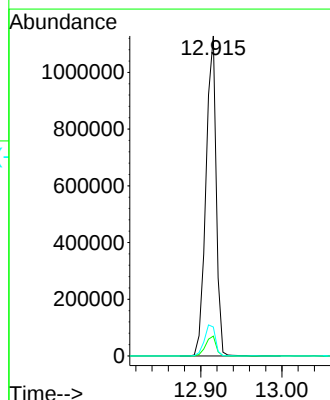
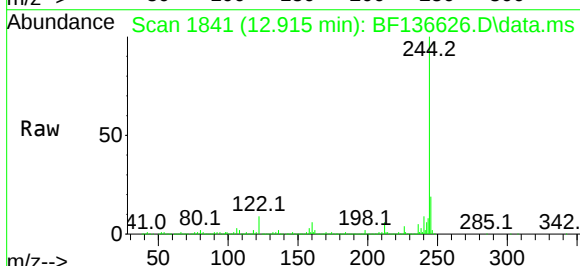
RT: 12.915 min Scan# 1841

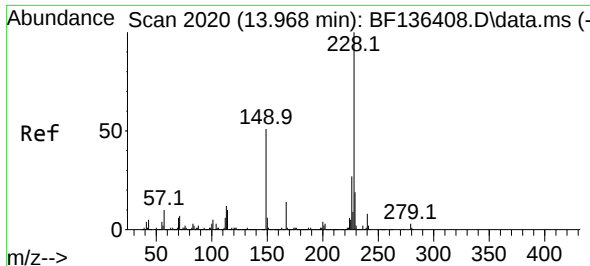
Delta R.T. -0.006 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

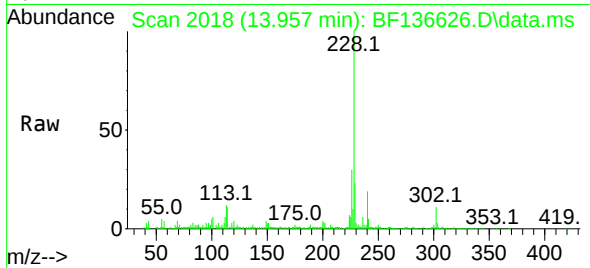
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 983687 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.2   | 5.0   | 7.4    |
| 122       | 9.1   | 8.3   | 12.5   |





#81  
Benzo(a)anthracene  
Concen: 5.654 ng m  
RT: 13.957 min Scan# 20  
Delta R.T. -0.012 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Instrument :  
BNA\_F  
ClientSampleId :  
AU-14-STOCKPILE-BIN-5



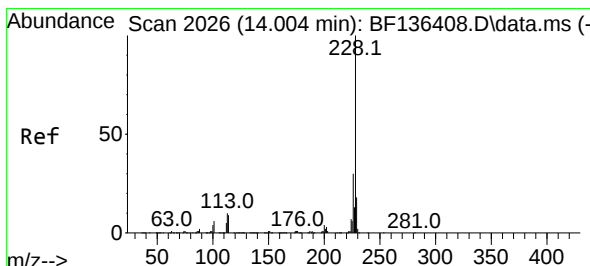
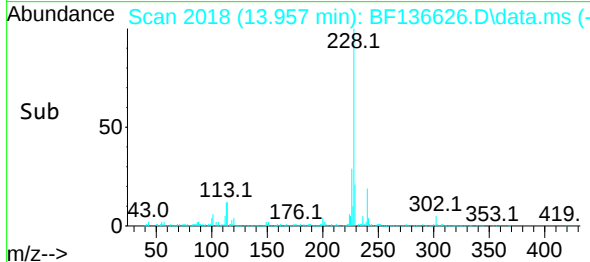
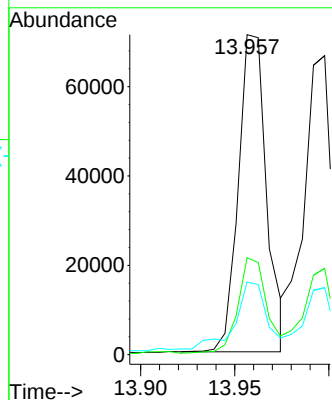
Tgt Ion:228 Resp: 74109  
Ion Ratio Lower Upper  
228 100  
226 30.3 21.8 32.8  
229 22.7 15.0 22.4

Manual Integrations  
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Reviewed By :Yogesh Patel 12/19/2023  
Supervised By :mohammad ahmed 12/19/2023

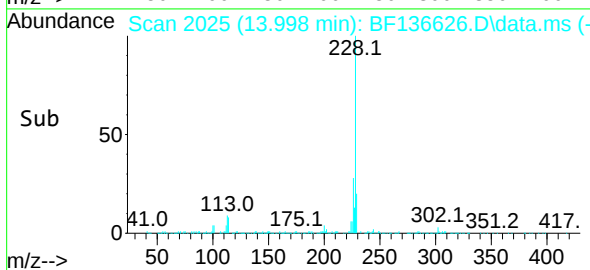
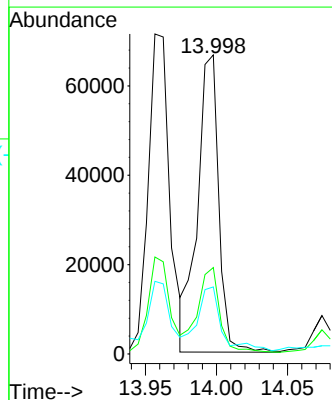
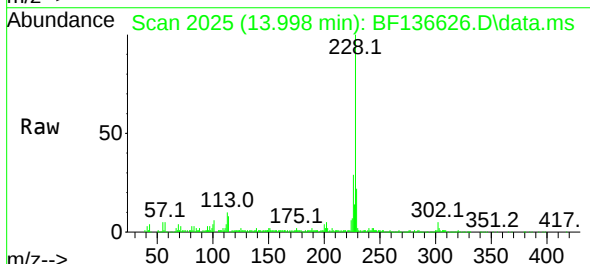
12/19/2023  
Supervised By :mohammad  
ahmed

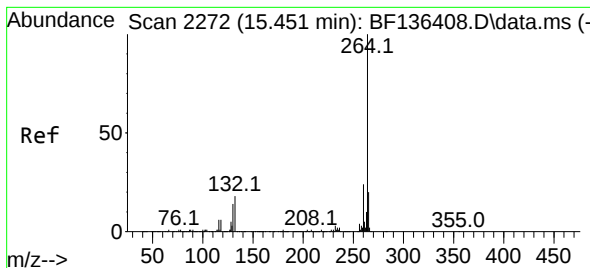
12/19/2023



#83  
Chrysene  
Concen: 5.390 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Tgt Ion:228 Resp: 69514  
Ion Ratio Lower Upper  
228 100  
226 28.9 23.8 35.6  
229 22.4 14.8 22.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

Instrument :

BNA\_F

ClientSampleId :

AU-14-STOCKPILE-BIN-5

Tgt Ion:264 Resp: 135130

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 19.2  | 28.8  |
| 265 | 21.7  | 15.9  | 23.9  |

Manual Integrations

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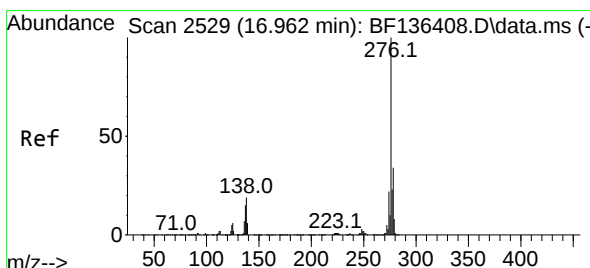
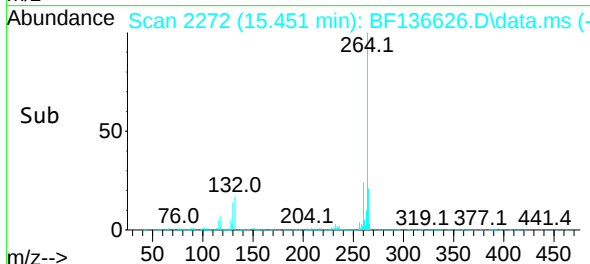
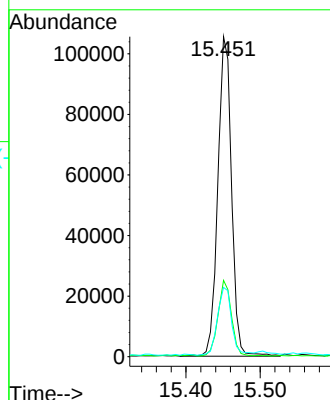
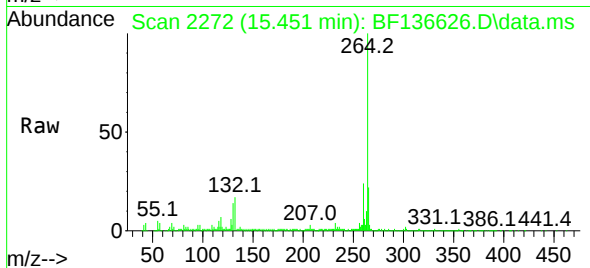
Reviewed By :Yogesh Patel 12/19/2023

Supervised By :mohammad ahmed 12/19/2023

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Supervised By :mohammad  
ahmed

12/19/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.492 ng

RT: 16.956 min Scan# 2528

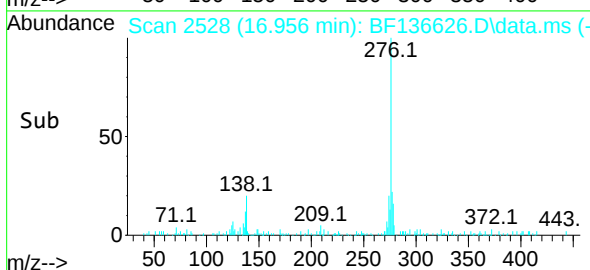
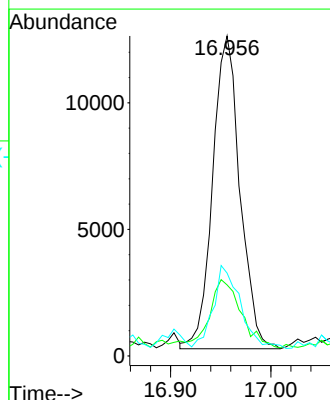
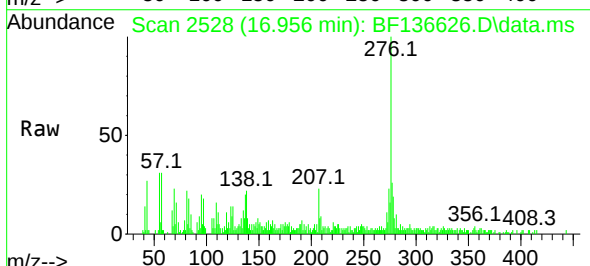
Delta R.T. -0.018 min

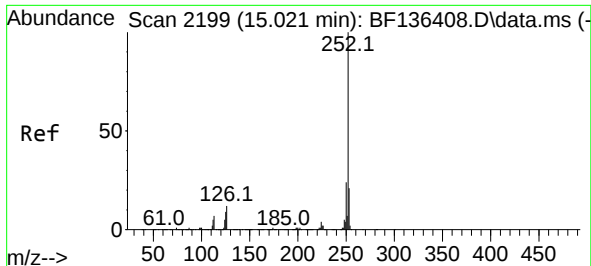
Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

Tgt Ion:276 Resp: 23395

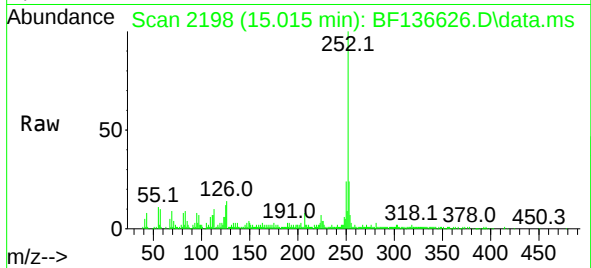
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 25.0  | 19.0  | 28.4  |
| 277 | 26.3  | 20.0  | 30.0  |





#88  
Benzo(b)fluoranthene  
Concen: 6.623 ng m  
RT: 15.015 min Scan# 2199  
Delta R.T. -0.006 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Instrument :  
BNA\_F  
ClientSampleId :  
AU-14-STOCKPILE-BIN-5



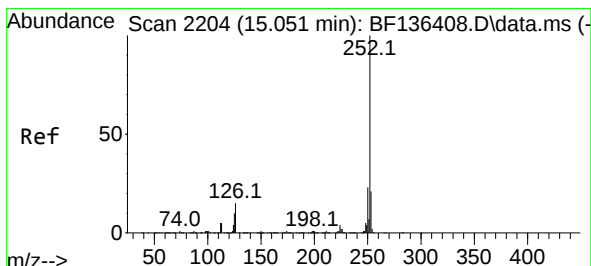
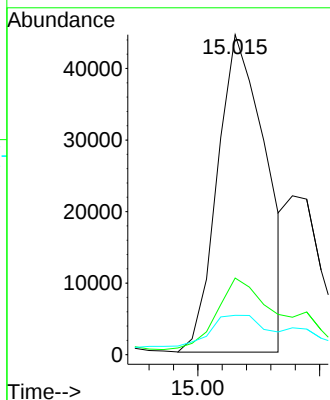
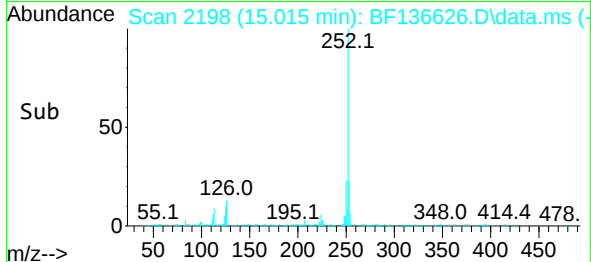
Tgt Ion:252 Resp: 61192  
Ion Ratio Lower Upper  
252 100  
253 24.0 16.9 25.3  
125 12.3 7.4 11.2

Manual Integrations  
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Reviewed By :Yogesh Patel 12/19/2023  
Supervised By :mohammad ahmed 12/19/2023

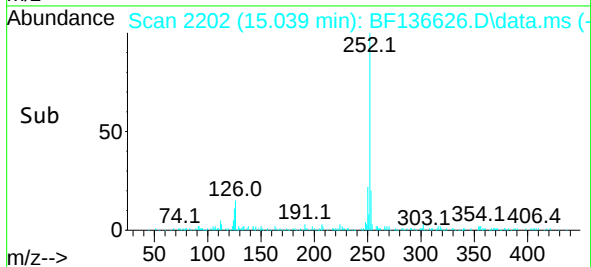
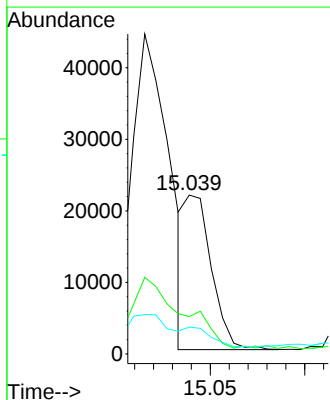
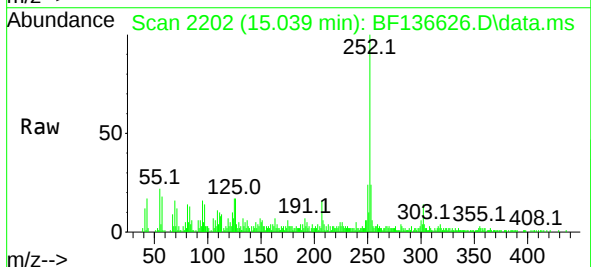
12/19/2023  
Supervised By :mohammad  
ahmed

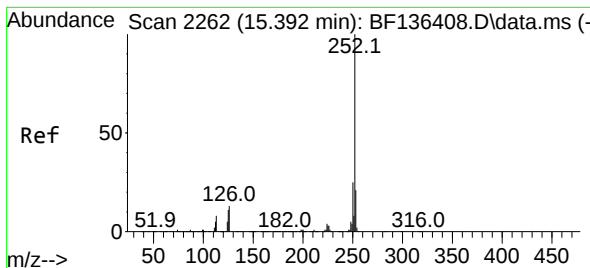
12/19/2023



#89  
Benzo(k)fluoranthene  
Concen: 2.445 ng m  
RT: 15.039 min Scan# 2202  
Delta R.T. -0.012 min  
Lab File: BF136626.D  
Acq: 18 Dec 2023 21:17

Tgt Ion:252 Resp: 21289  
Ion Ratio Lower Upper  
252 100  
253 23.6 16.9 25.3  
125 17.0 7.5 11.3





#90

Benzo(a)pyrene

Concen: 5.935 ng

RT: 15.386 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

Instrument :

BNA\_F

ClientSampleId :

AU-14-STOCKPILE-BIN-5

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4528 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 21.6  | 17.0  | 25.4 |
| 125       | 12.8  | 8.6   | 13.0 |

Manual Integrations

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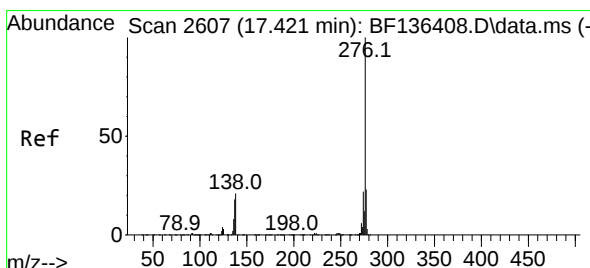
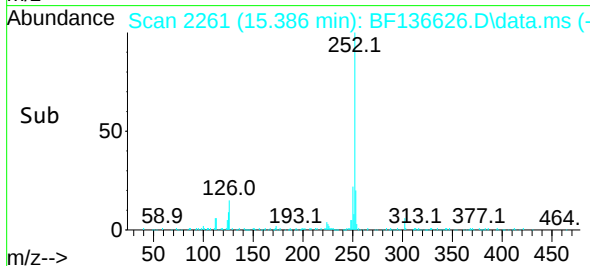
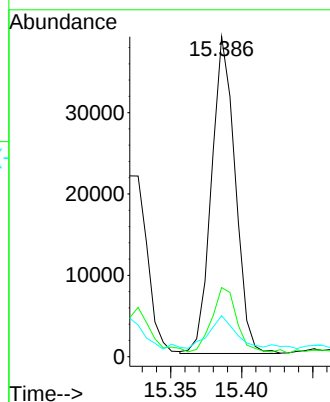
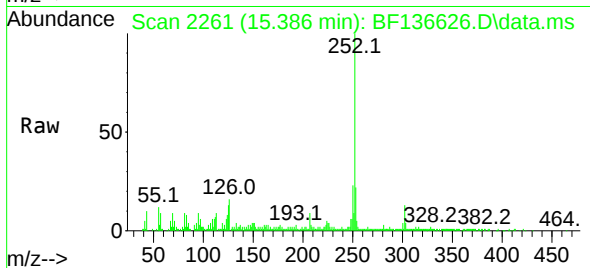
Reviewed By :Yogesh Patel 12/19/2023

Supervised By :mohammad ahmed 12/19/2023

12/19/2023

Supervised By :mohammad ahmed

12/19/2023



#92

Benzo(g,h,i)perylene

Concen: 2.811 ng

RT: 17.415 min Scan# 2606

Delta R.T. -0.024 min

Lab File: BF136626.D

Acq: 18 Dec 2023 21:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 22189 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.1  | 18.7  | 28.1  |
| 138       | 21.3  | 16.6  | 25.0  |

