

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071723\  
 Data File : BF134324.D  
 Acq On : 17 Jul 2023 19:48  
 Operator : CG\JU  
 Sample : 03601-01RE  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-1-071223RE

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023  
 Supervised By :mohammad ahmed 07/19/2023

Quant Time: Jul 18 01:16:12 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 14 22:51:27 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.840  | 152  | 65305    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.116  | 136  | 231142   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.869  | 164  | 102373   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.369 | 188  | 184390   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.027 | 240  | 104068   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 15.539 | 264  | 84950    | 20.000 | ng    | # 0.00   |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.469  | 112  | 365111   | 93.522 | ng    | 0.00     |
| 7) Phenol-d6                | 6.475  | 99   | 427952   | 89.135 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.398  | 82   | 287569   | 67.065 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.669 | 330  | 118222   | 92.105 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.192  | 172  | 512778   | 72.824 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.963 | 244  | 509750   | 78.833 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.392 | 178  | 58848    | 6.340  | ng    | 97       |
| 75) Fluoranthene            | 12.586 | 202  | 102043   | 10.168 | ng    | 99       |
| 78) Pyrene                  | 12.821 | 202  | 89740    | 9.266  | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.021 | 228  | 34186m   | 4.737  | ng    |          |
| 83) Chrysene                | 14.057 | 228  | 35696    | 5.106  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.086 | 276  | 13509    | 2.292  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.092 | 252  | 32192m   | 6.445  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.121 | 252  | 12868m   | 2.530  | ng    |          |
| 90) Benzo(a)pyrene          | 15.474 | 252  | 24162    | 5.002  | ng    | # 83     |
| 92) Benzo(g,h,i)perylene    | 17.562 | 276  | 15626    | 3.147  | ng    | # 75     |
| -----                       |        |      |          |        |       |          |

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

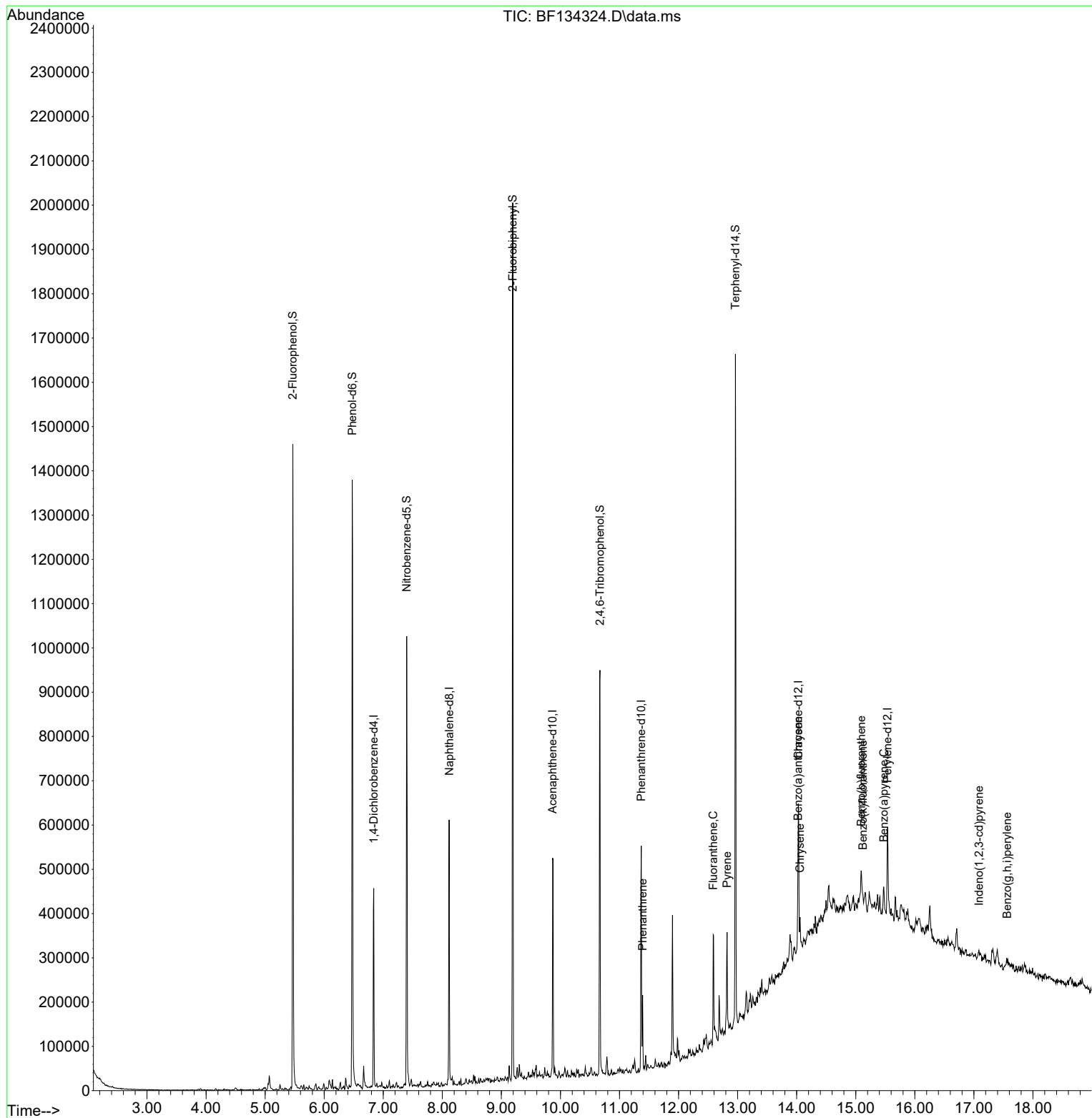
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF071723\  
Data File : BF134324.D  
Acq On : 17 Jul 2023 19:48  
Operator : CG\JU  
Sample : 03601-01RE  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

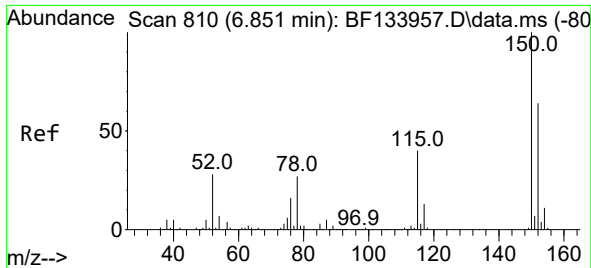
Instrument :  
BNA\_F  
ClientSampleId :  
HR-1-071223RE

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Supervised By :mohammad ahmed 07/19/2023

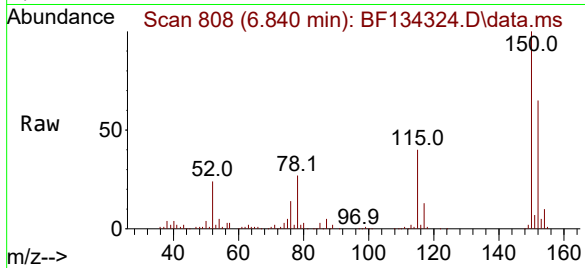
Quant Time: Jul 18 01:16:12 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 14 22:51:27 2023  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.840 min Scan# 80  
Delta R.T. -0.005 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

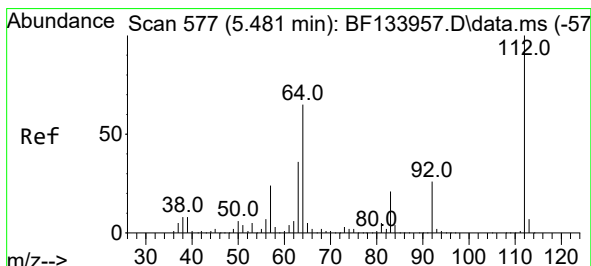
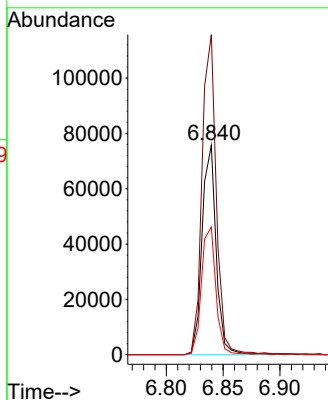
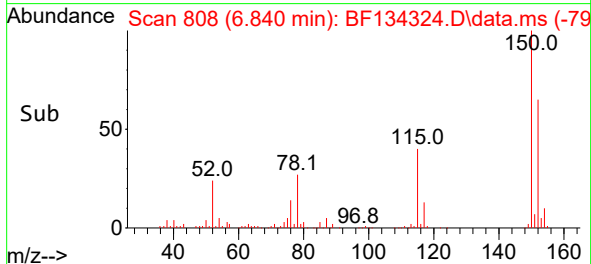
Instrument :  
BNA\_F  
ClientSampleId :  
HR-1-071223RE



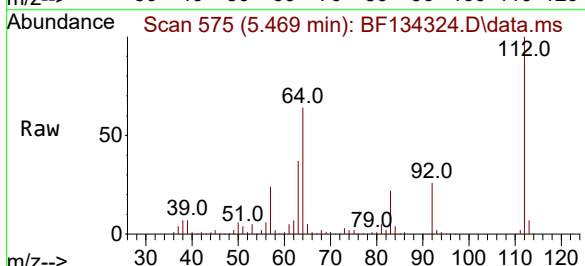
Tgt Ion:152 Resp: 6530  
Ion Ratio Lower Upper  
152 100  
150 152.9 124.5 186.7  
115 61.0 50.2 75.2

Manual Integrations  
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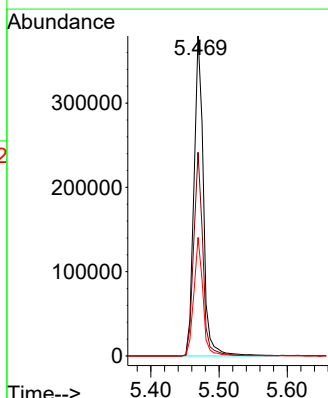
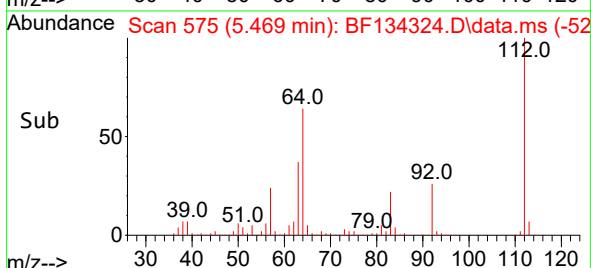
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

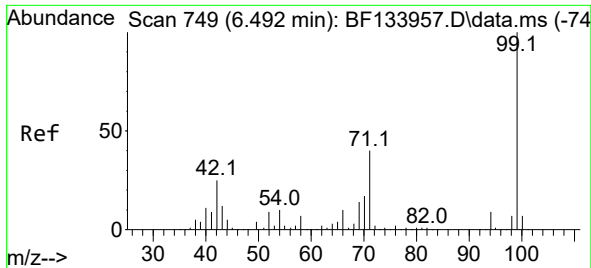


#5  
2-Fluorophenol  
Concen: 93.522 ng  
RT: 5.469 min Scan# 575  
Delta R.T. 0.000 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48



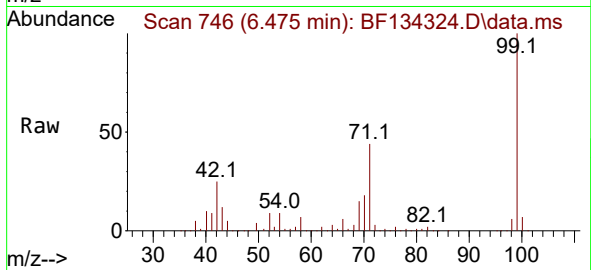
Tgt Ion:112 Resp: 365111  
Ion Ratio Lower Upper  
112 100  
64 63.7 52.1 78.1  
63 37.1 28.6 42.8





#7  
Phenol-d6  
Concen: 89.135 ng  
RT: 6.475 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

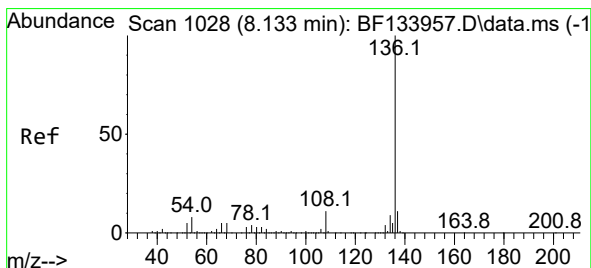
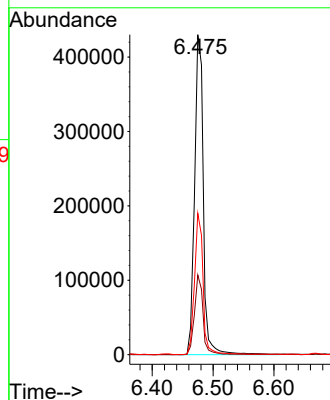
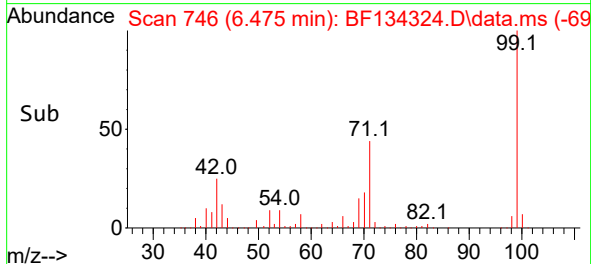
Instrument :  
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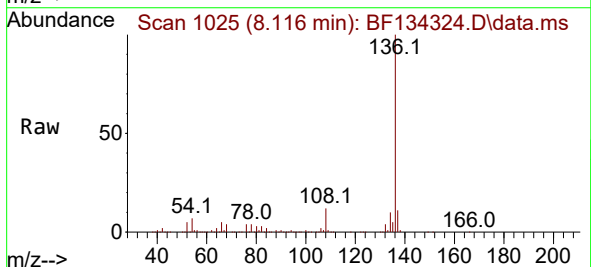
Tgt Ion: 99 Resp: 427952  
Ion Ratio Lower Upper  
99 100  
42 24.9 19.8 29.6  
71 44.2 31.9 47.9

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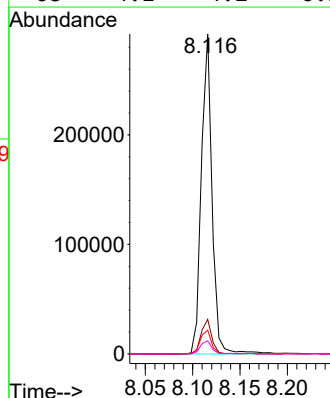
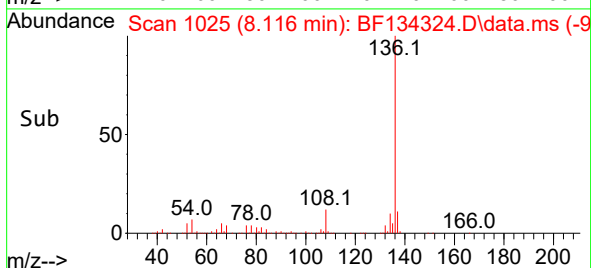
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

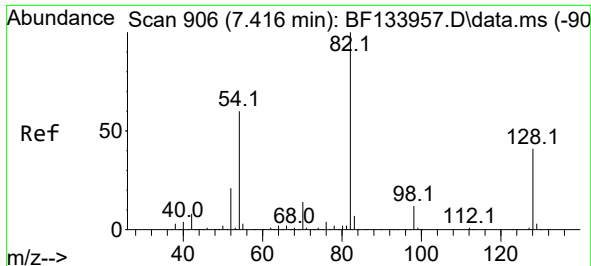


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48



Tgt Ion:136 Resp: 231142  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 12.8  
54 7.4 6.5 9.7  
68 4.1 4.2 6.2#





#23

Nitrobenzene-d5

Concen: 67.065 ng

RT: 7.398 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF134324.D

Acq: 17 Jul 2023 19:48

Instrument :

BNA\_F

ClientSampleId :

HR-1-071223RE

Tgt Ion: 82 Resp: 287569

Ion Ratio Lower Upper

82 100

128 40.3 32.5 48.7

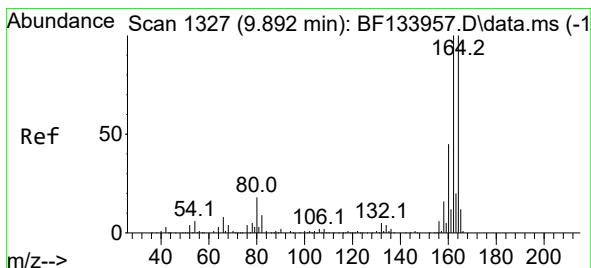
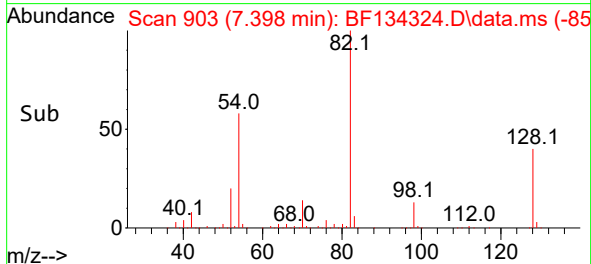
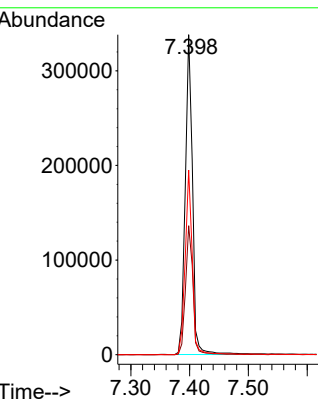
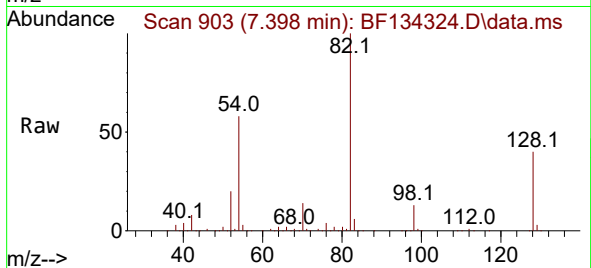
54 57.7 48.2 72.2

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.869 min Scan# 1323

Delta R.T. -0.012 min

Lab File: BF134324.D

Acq: 17 Jul 2023 19:48

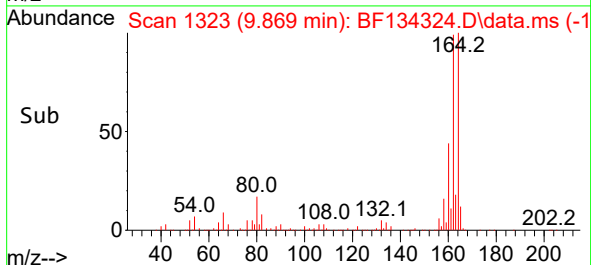
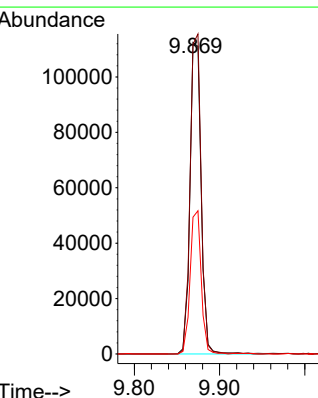
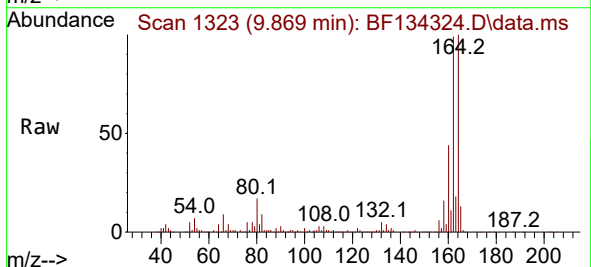
Tgt Ion:164 Resp: 102373

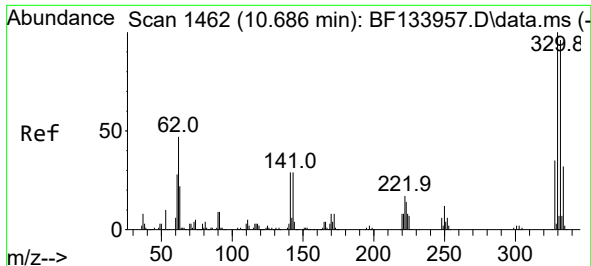
Ion Ratio Lower Upper

164 100

162 99.4 80.0 120.0

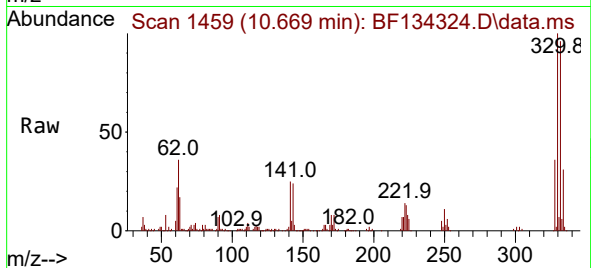
160 43.9 35.9 53.9





#42  
2,4,6-Tribromophenol  
Concen: 92.105 ng  
RT: 10.669 min Scan# 1462  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

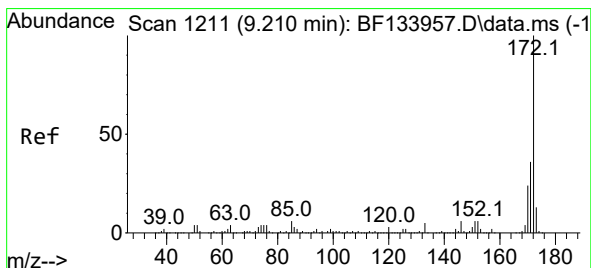
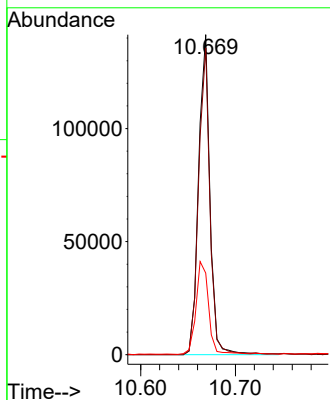
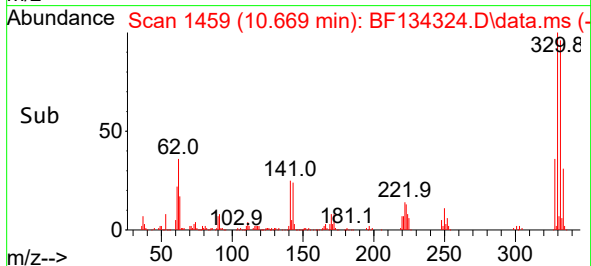
Instrument :  
BNA\_F  
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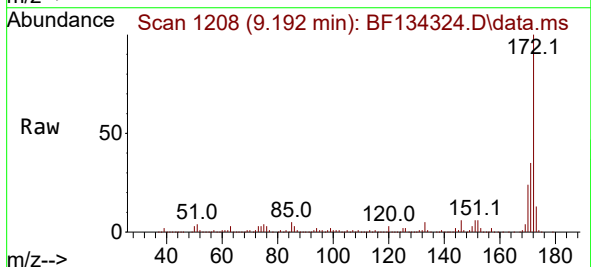
Tgt Ion:330 Resp: 118222  
Ion Ratio Lower Upper  
330 100  
332 94.7 77.0 115.6  
141 31.9 26.3 39.5

Manual Integrations  
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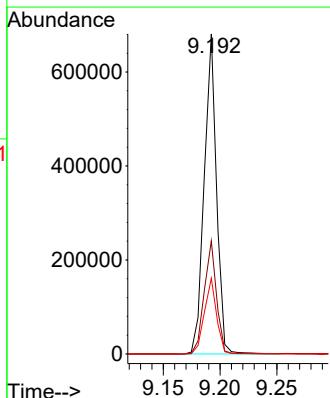
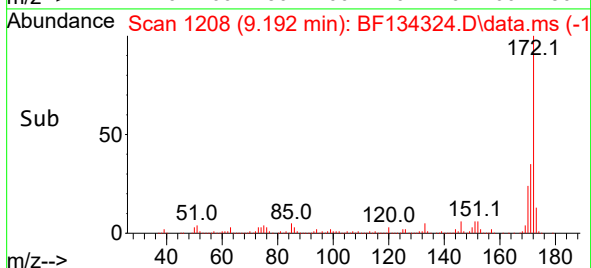
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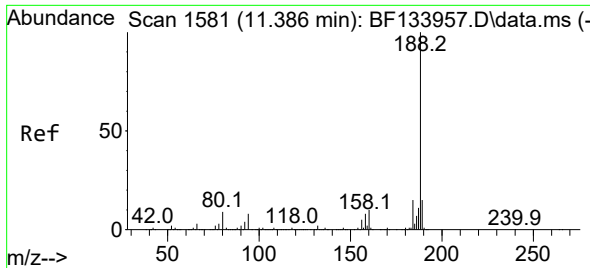


#45  
2-Fluorobiphenyl  
Concen: 72.824 ng  
RT: 9.192 min Scan# 1208  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48



Tgt Ion:172 Resp: 512778  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.6 43.0  
170 23.7 19.4 29.0





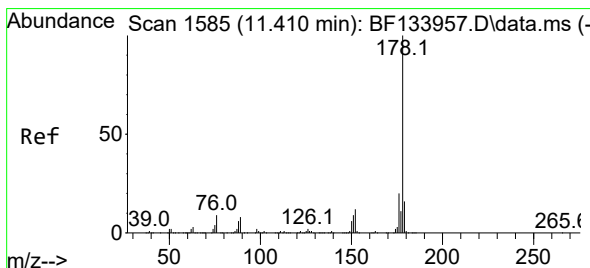
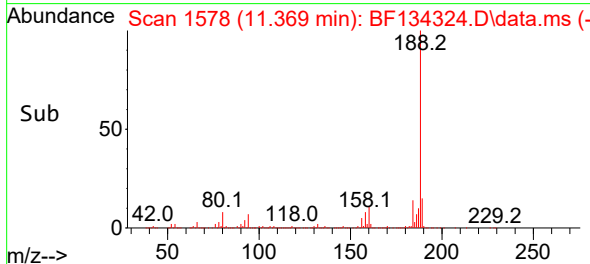
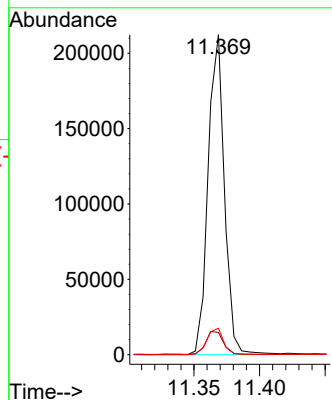
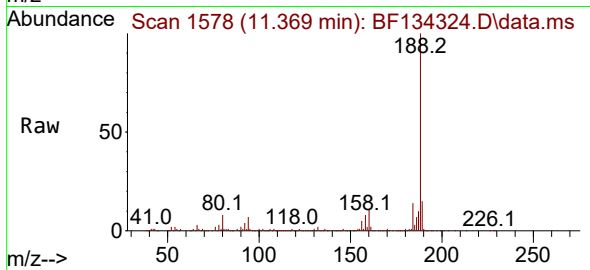
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.369 min Scan# 1578  
Delta R.T. -0.006 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Instrument :  
BNA\_F  
ClientSampleId :  
HR-1-071223RE

Tgt Ion:188 Resp: 184390  
Ion Ratio Lower Upper  
188 100  
94 7.0 6.4 9.6  
80 8.3 7.3 10.9

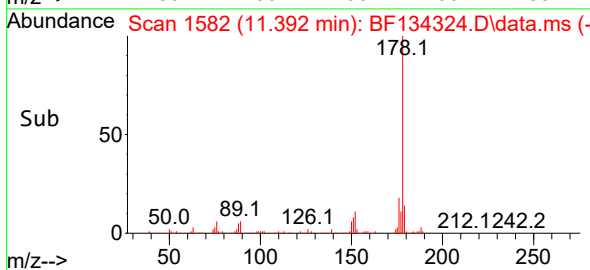
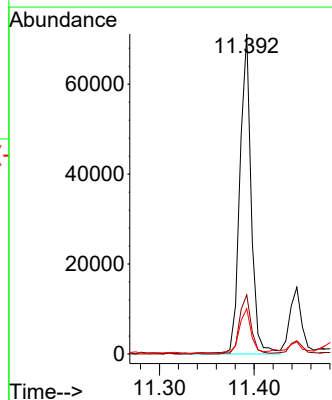
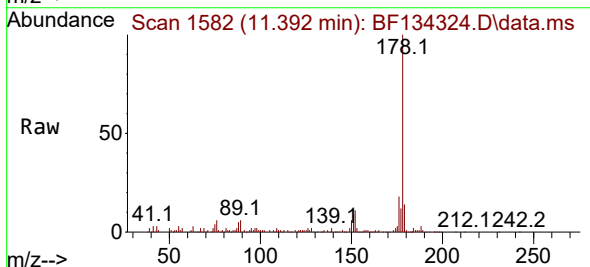
Manual Integrations  
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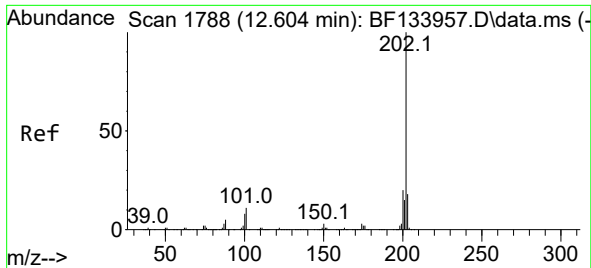
Reviewed By :Yogesh Patel 07/19/2023  
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#71  
Phenanthrene  
Concen: 6.340 ng  
RT: 11.392 min Scan# 1582  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

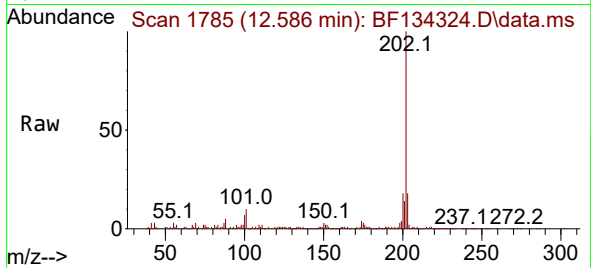
Tgt Ion:178 Resp: 58848  
Ion Ratio Lower Upper  
178 100  
176 18.4 16.0 24.0  
179 14.2 12.4 18.6





#75  
Fluoranthene  
Concen: 10.168 ng  
RT: 12.586 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

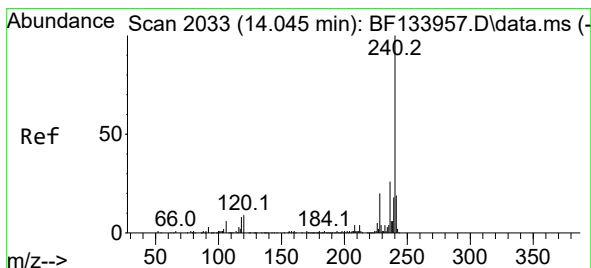
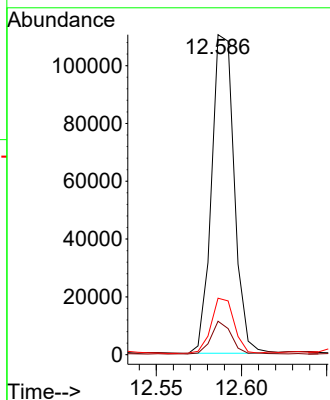
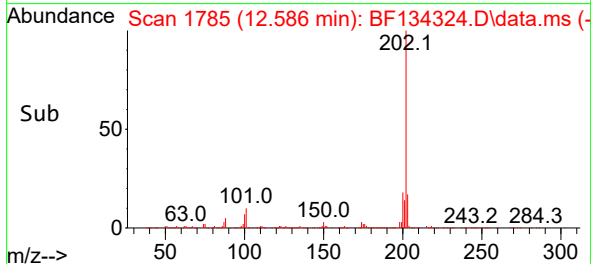
Instrument :  
BNA\_F  
ClientSampleId :  
HR-1-071223RE



Tgt Ion:202 Resp: 10204  
Ion Ratio Lower Upper  
202 100  
101 10.4 0.0 31.0  
203 17.7 0.0 37.6

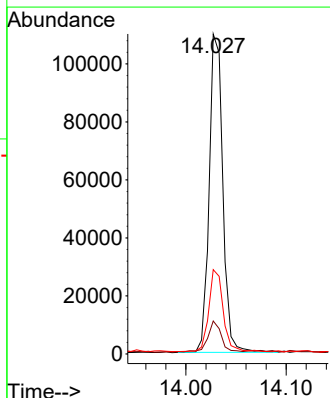
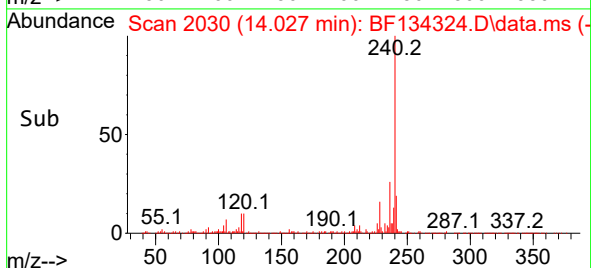
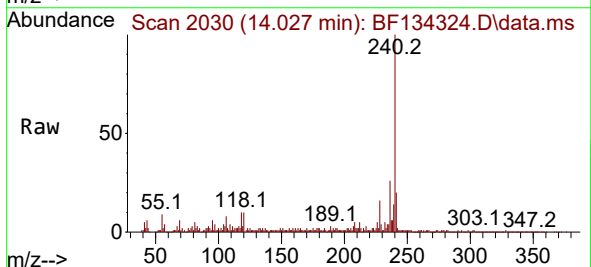
Manual Integrations  
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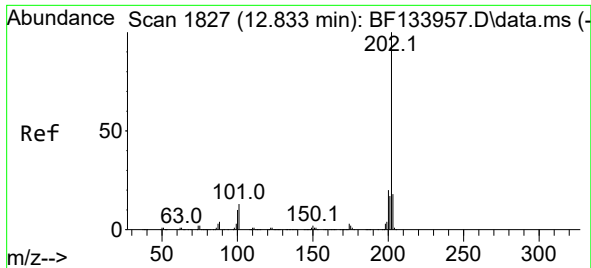
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Tgt Ion:240 Resp: 104068  
Ion Ratio Lower Upper  
240 100  
120 10.3 7.4 11.0  
236 26.4 21.0 31.6





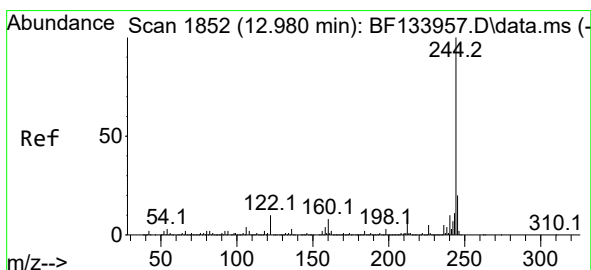
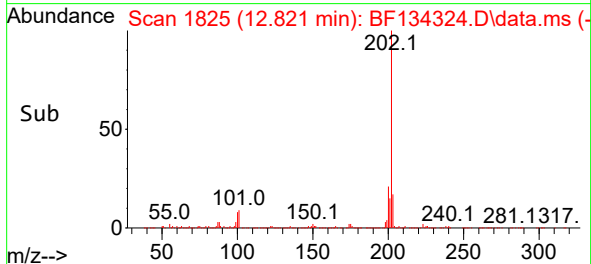
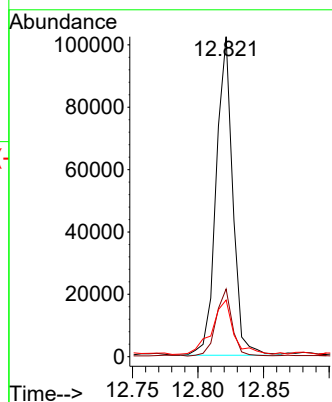
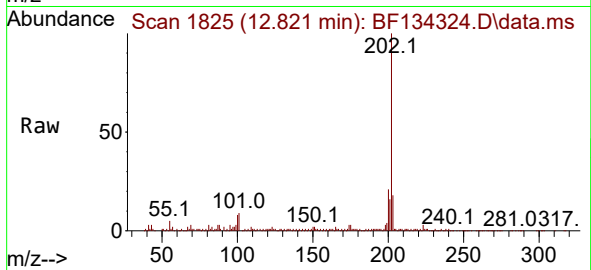
#78  
Pyrene  
Concen: 9.266 ng  
RT: 12.821 min Scan# 1825  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Instrument :  
BNA\_F  
ClientSampleId :  
HR-1-071223RE

Tgt Ion:202 Resp: 89740  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.1 24.1  
203 17.7 14.3 21.5

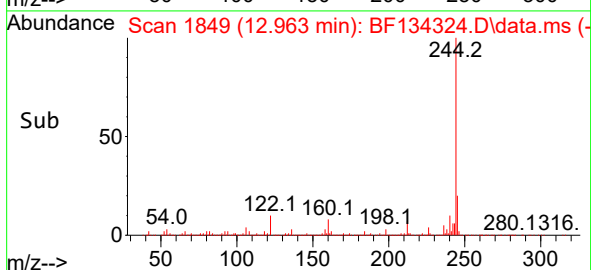
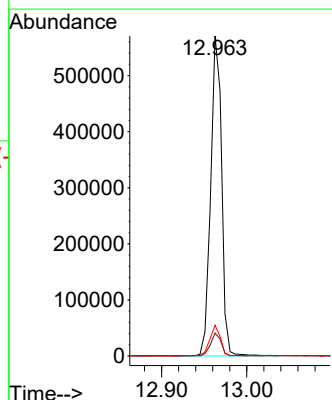
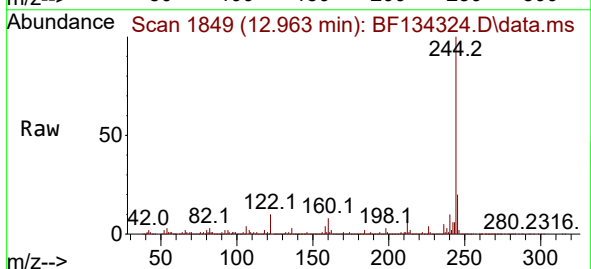
Manual Integrations  
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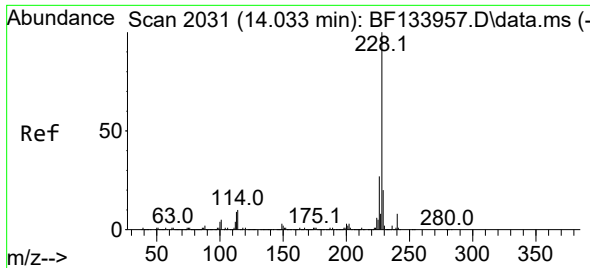
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#79  
Terphenyl-d14  
Concen: 78.833 ng  
RT: 12.963 min Scan# 1849  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Tgt Ion:244 Resp: 509750  
Ion Ratio Lower Upper  
244 100  
212 7.1 6.0 9.0  
122 9.6 8.3 12.5





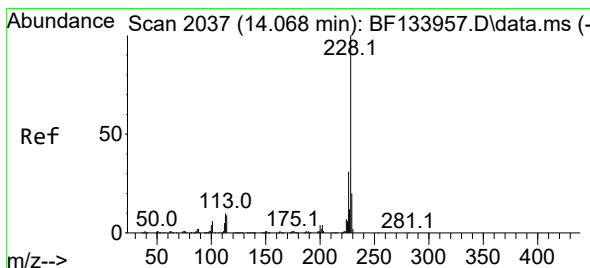
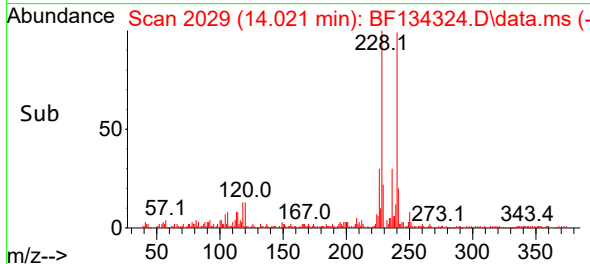
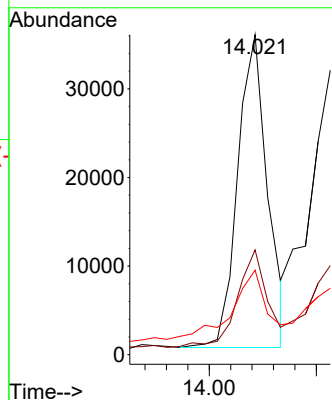
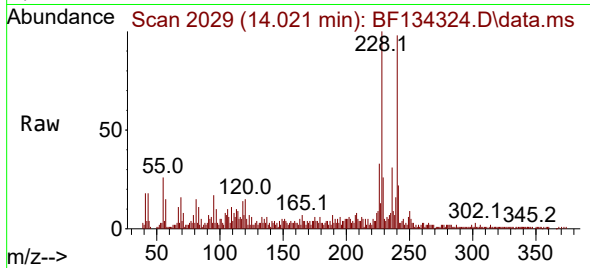
#81  
Benzo(a)anthracene  
Concen: 4.737 ng m  
RT: 14.021 min Scan# 2031  
Delta R.T. -0.006 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Instrument :  
BNA\_F  
ClientSampleId :  
HR-1-071223RE

Tgt Ion:228 Resp: 34180  
Ion Ratio Lower Upper  
228 100  
226 32.8 22.0 33.0  
229 26.4 16.3 24.5

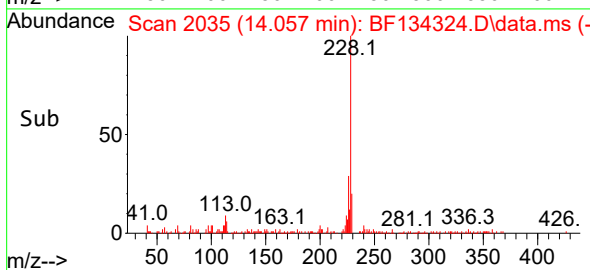
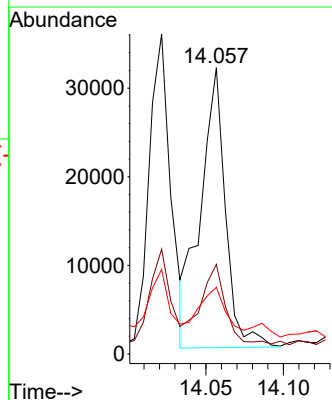
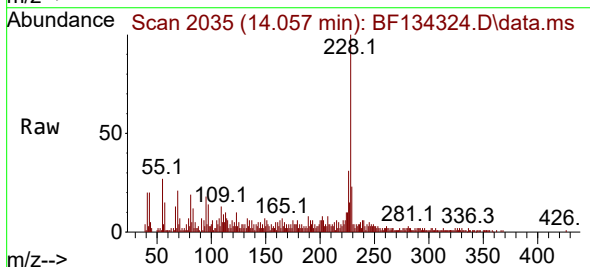
Manual Integrations  
APPROVED

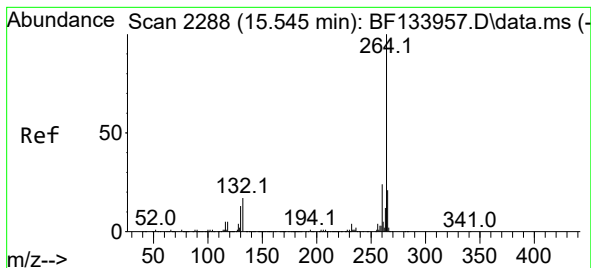
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#83  
Chrysene  
Concen: 5.106 ng  
RT: 14.057 min Scan# 2035  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Tgt Ion:228 Resp: 35696  
Ion Ratio Lower Upper  
228 100  
226 31.3 24.4 36.6  
229 23.3 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134324.D

Acq: 17 Jul 2023 19:48

Instrument :

BNA\_F

ClientSampleId :

HR-1-071223RE

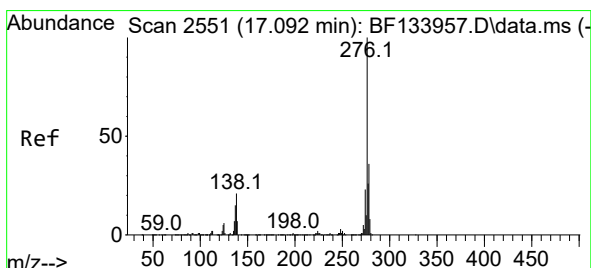
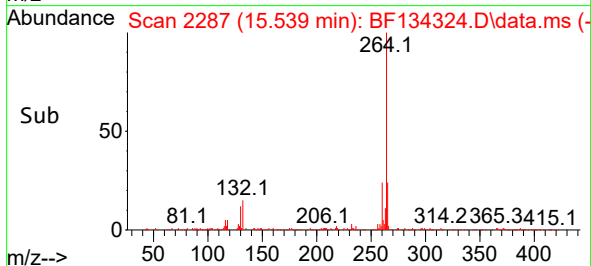
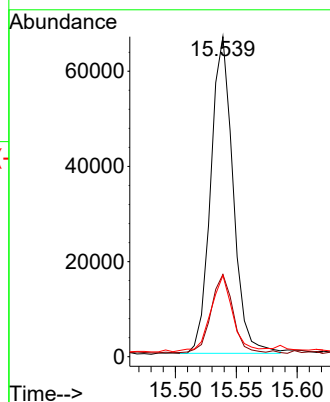
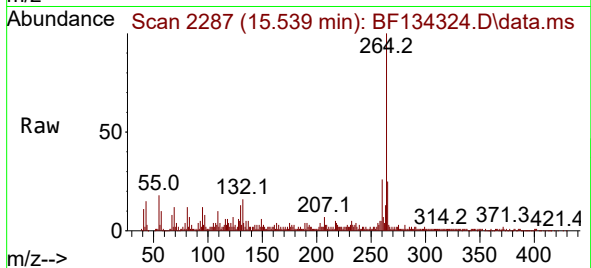
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 84950 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 25.7  | 19.5  | 29.3  |
| 265       | 25.4  | 16.6  | 25.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.292 ng

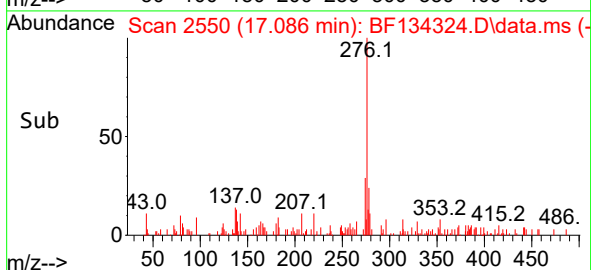
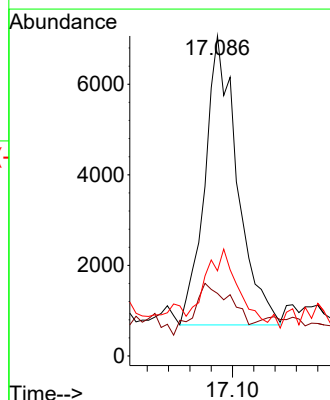
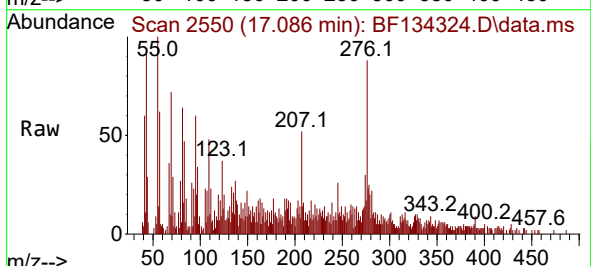
RT: 17.086 min Scan# 2550

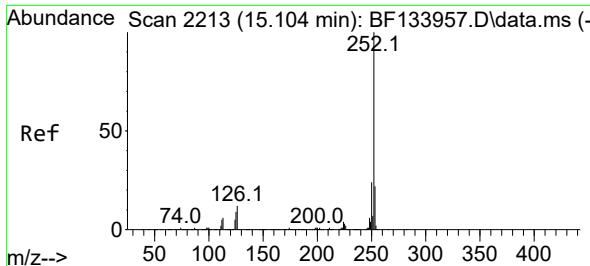
Delta R.T. -0.012 min

Lab File: BF134324.D

Acq: 17 Jul 2023 19:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 13509 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 21.7  | 18.7  | 28.1  |
| 277       | 25.4  | 19.9  | 29.9  |





#88  
Benzo(b)fluoranthene  
Concen: 6.445 ng m  
RT: 15.092 min Scan# 2210  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Instrument :

BNA\_F

ClientSampleId :

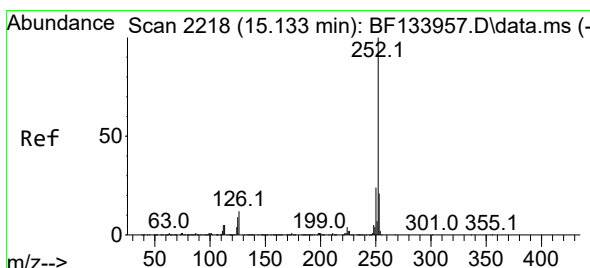
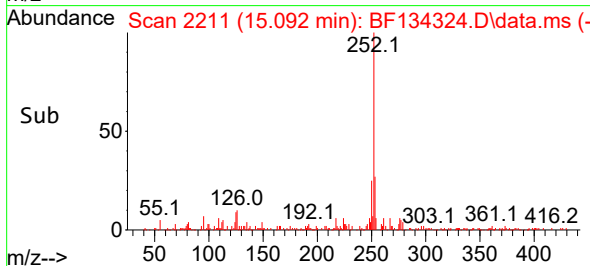
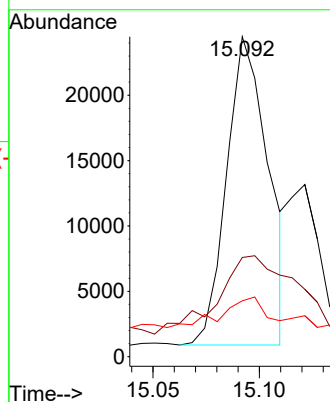
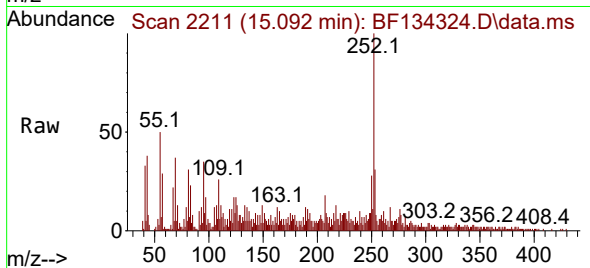
HR-1-071223RE

Tgt Ion:252 Resp: 32192  
Ion Ratio Lower Upper  
252 100  
253 31.0 17.4 26.0#  
125 17.4 7.1 10.7#

Manual Integrations

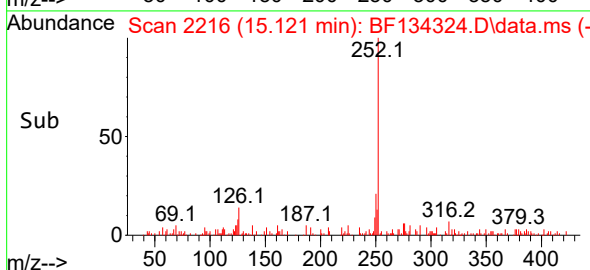
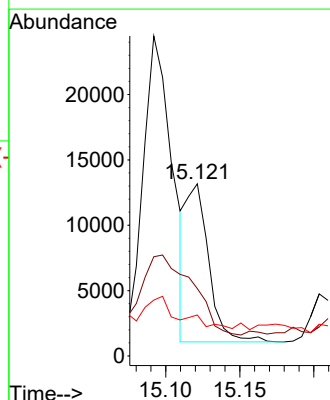
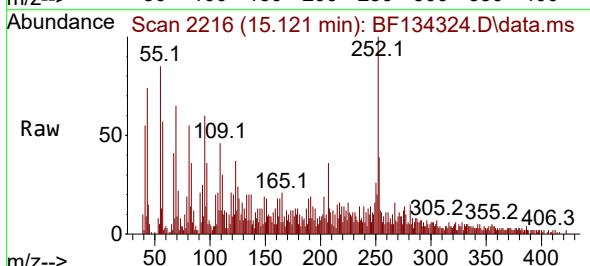
APPROVED

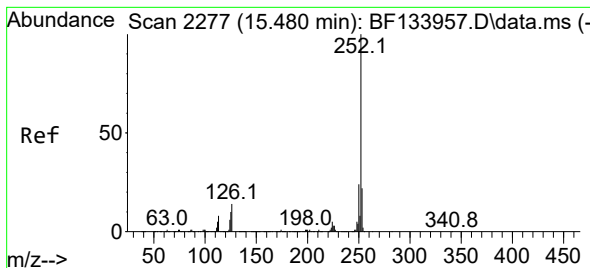
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#89  
Benzo(k)fluoranthene  
Concen: 2.530 ng m  
RT: 15.121 min Scan# 2216  
Delta R.T. -0.012 min  
Lab File: BF134324.D  
Acq: 17 Jul 2023 19:48

Tgt Ion:252 Resp: 12868  
Ion Ratio Lower Upper  
252 100  
253 39.1 16.9 25.3#  
125 23.8 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 5.002 ng

RT: 15.474 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134324.D

Acq: 17 Jul 2023 19:48

Instrument :

BNA\_F

ClientSampleId :

HR-1-071223RE

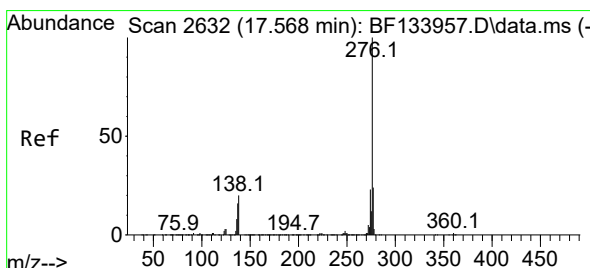
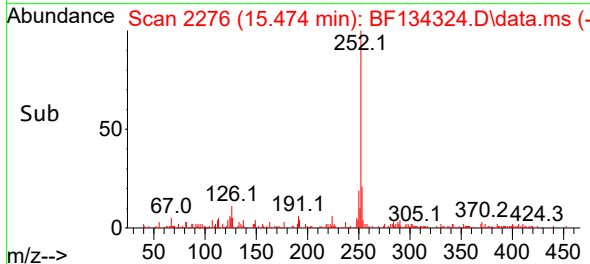
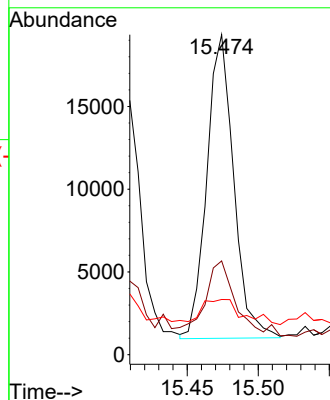
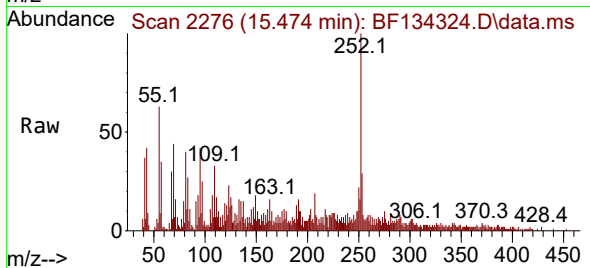
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2416 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.3  | 17.4  | 26.0 |
| 125       | 17.2  | 8.4   | 12.6 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#92

Benzo(g,h,i)perylene

Concen: 3.147 ng

RT: 17.562 min Scan# 2631

Delta R.T. -0.006 min

Lab File: BF134324.D

Acq: 17 Jul 2023 19:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 15626 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 40.3  | 19.0  | 28.6  |
| 138       | 27.4  | 16.2  | 24.2  |

