

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110821\  
 Data File : BF126061.D  
 Acq On : 8 Nov 2021 12:55  
 Operator : JU/CG  
 Sample : M4500-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-8-110321

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 11/08/2021  
 Supervised By :mohammad ahmed 11/09/2021

Quant Time: Nov 08 14:21:35 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 03 17:21:25 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.851  | 152  | 159827   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.133  | 136  | 574990   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.886  | 164  | 308308   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.368 | 188  | 474450   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.009 | 240  | 342452   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.474 | 264  | 328848   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.469  | 112  | 837569   | 89.994 | ng    | 0.00     |
| 7) Phenol-d6                | 6.481  | 99   | 1082105  | 82.479 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.416  | 82   | 812130   | 66.610 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.674 | 330  | 281846   | 79.770 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.210  | 172  | 1487283  | 65.190 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.957 | 244  | 1210545  | 57.002 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.392 | 178  | 85714    | 3.331  | ng    | 99       |
| 75) Fluoranthene            | 12.586 | 202  | 107878   | 3.765  | ng    | 95       |
| 78) Pyrene                  | 12.810 | 202  | 130823   | 4.764  | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.998 | 228  | 50784m   | 2.159  | ng    |          |
| 83) Chrysene                | 14.033 | 228  | 52332m   | 2.391  | ng    |          |
| 88) Benzo(b)fluoranthene    | 15.045 | 252  | 54858m   | 2.565  | ng    |          |
| 90) Benzo(a)pyrene          | 15.409 | 252  | 36471    | 2.164  | ng    | # 92     |
| -----                       |        |      |          |        |       |          |

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

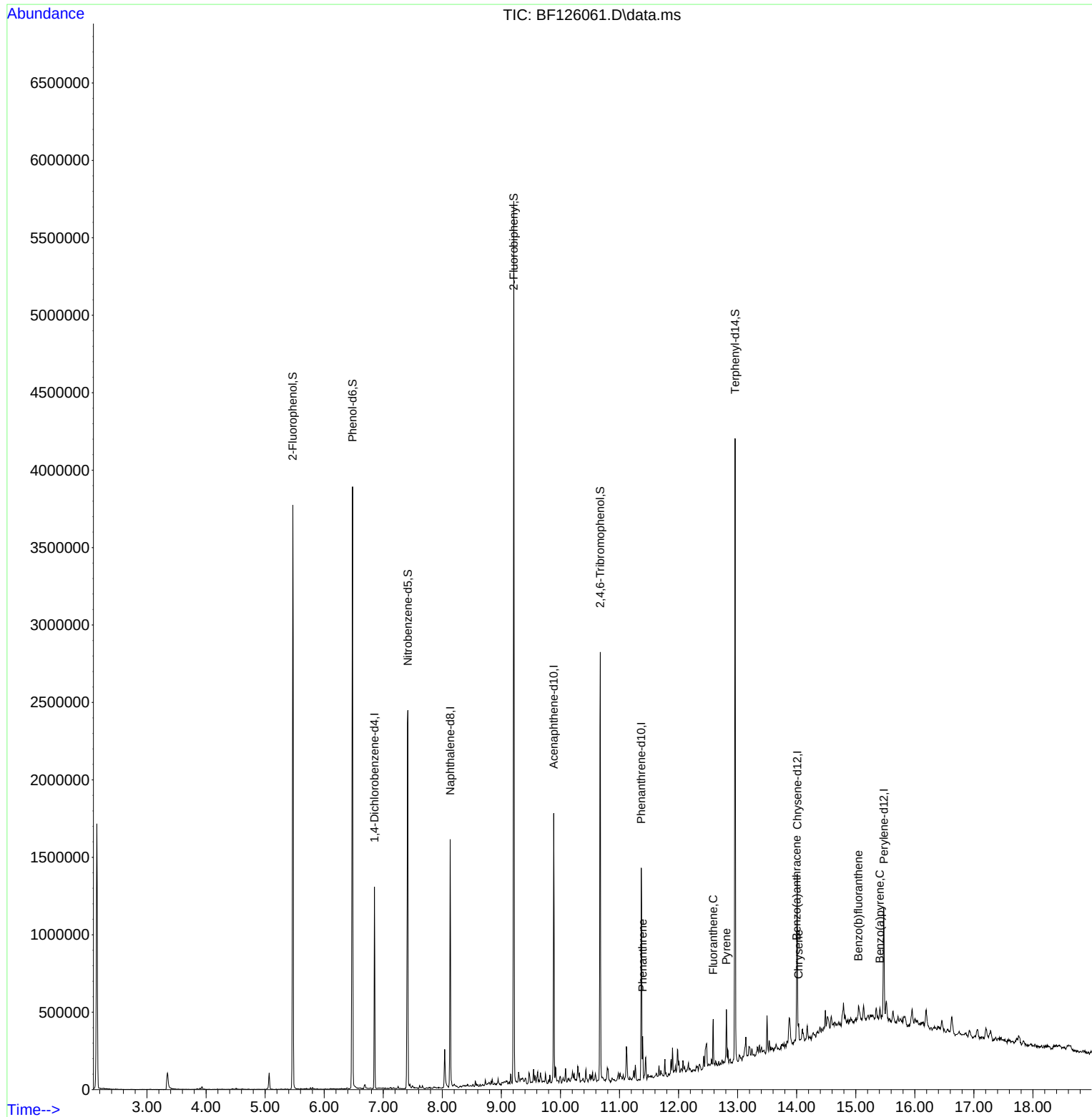
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110821\  
Data File : BF126061.D  
Acq On : 8 Nov 2021 12:55  
Operator : JU/CG  
Sample : M4500-03  
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ALS Vial : 6 Sample Multiplier: 1

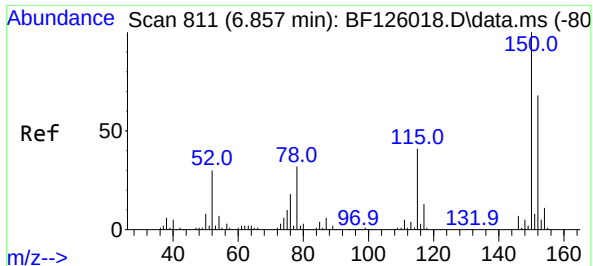
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 03 17:21:25 2021  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.851 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

Instrument :

BNA\_F

ClientSampleId :

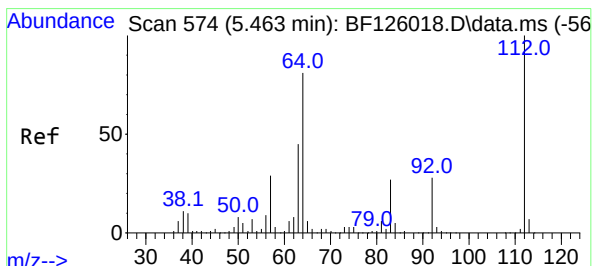
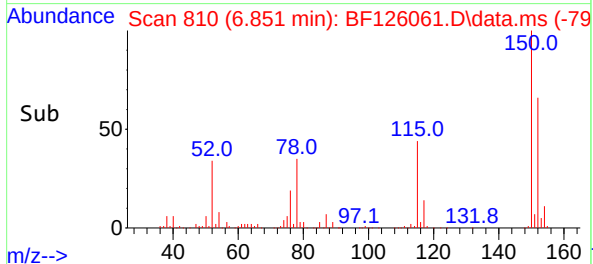
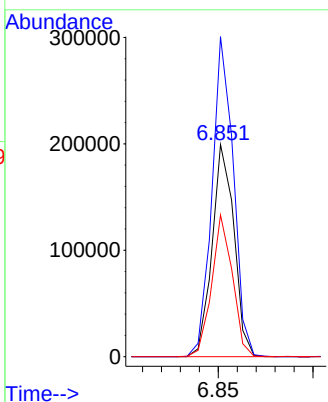
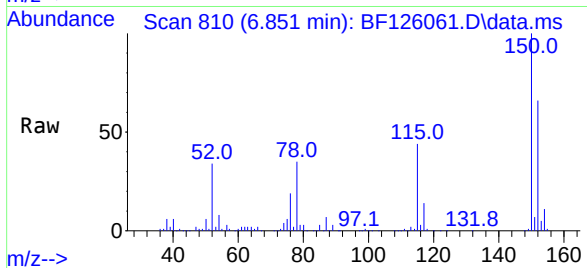
TR-8-110321

Tgt Ion:152 Resp: 159827  
Ion Ratio Lower Upper  
152 100  
150 150.9 117.6 176.4  
115 66.8 47.1 70.7

Manual Integrations

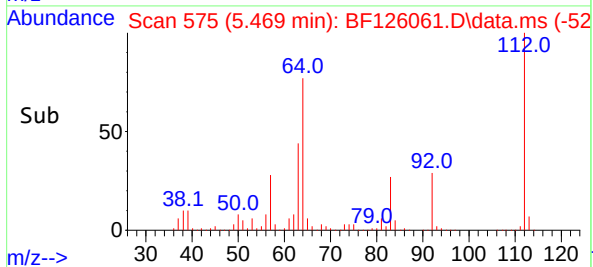
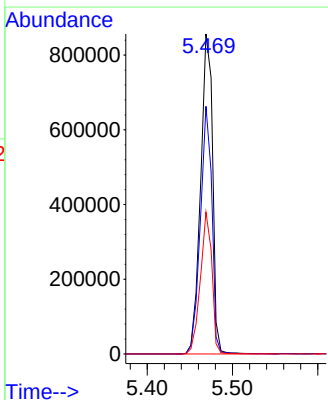
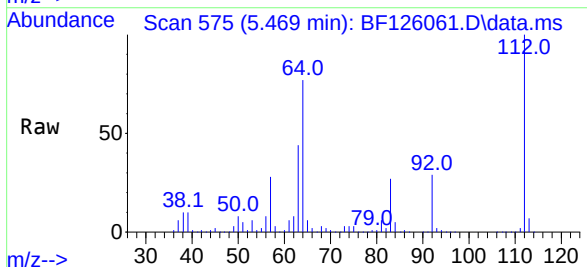
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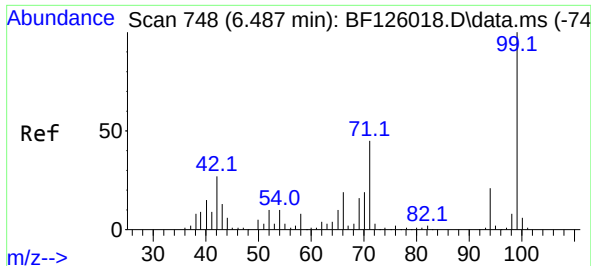
Reviewed By :Jagrut Upadhyay 11/08/2021  
Supervised By :mohammad ahmed 11/09/2021



#5  
2-Fluorophenol  
Concen: 89.994 ng  
RT: 5.469 min Scan# 575  
Delta R.T. 0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

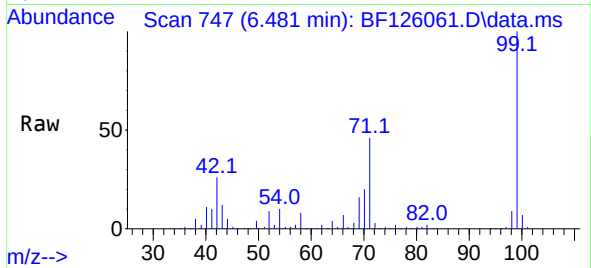
Tgt Ion:112 Resp: 837569  
Ion Ratio Lower Upper  
112 100  
64 77.4 44.2 66.2#  
63 44.3 26.2 39.2#





#7  
Phenol-d6  
Concen: 82.479 ng  
RT: 6.481 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

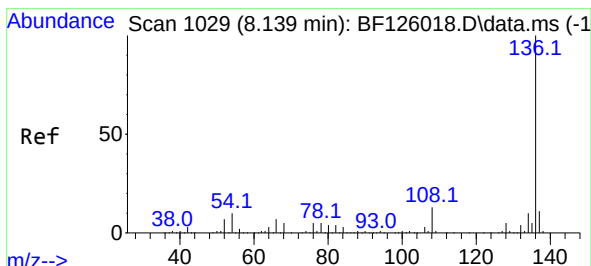
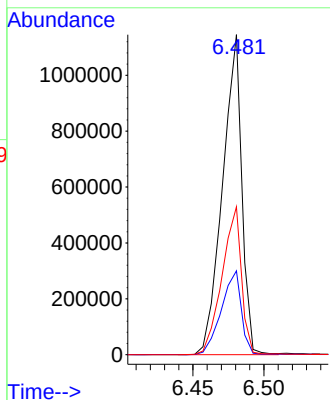
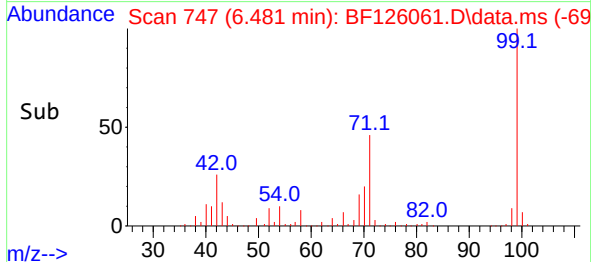
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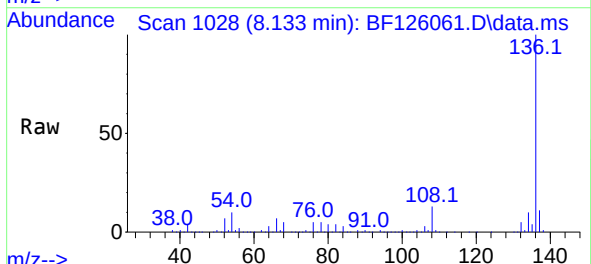
Tgt Ion: 99 Resp: 108210  
Ion Ratio Lower Upper  
99 100  
42 26.2 23.5 35.3  
71 46.2 25.6 38.4

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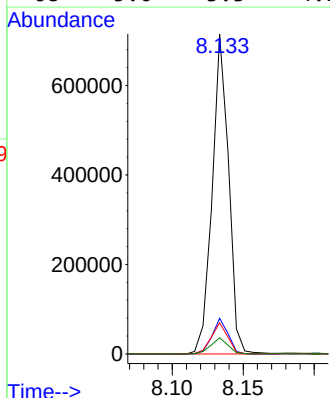
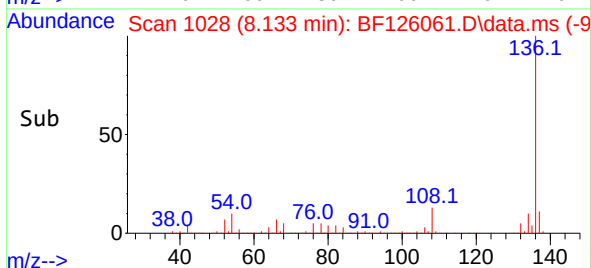
Reviewed By :Jagrut Upadhyay 11/08/2021  
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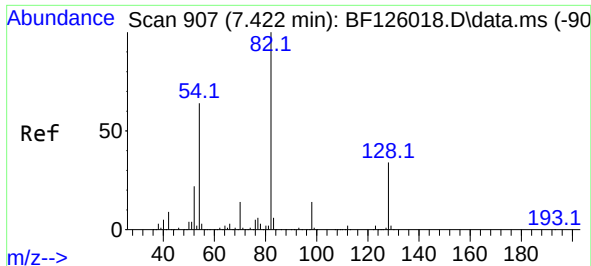


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.133 min Scan# 1028  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55



Tgt Ion:136 Resp: 574990  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.8 14.6  
54 9.8 6.4 9.6#  
68 5.0 3.3 4.9#





#23

Nitrobenzene-d5

Concen: 66.610 ng

RT: 7.416 min Scan# 907

Delta R.T. -0.006 min

Lab File: BF126061.D

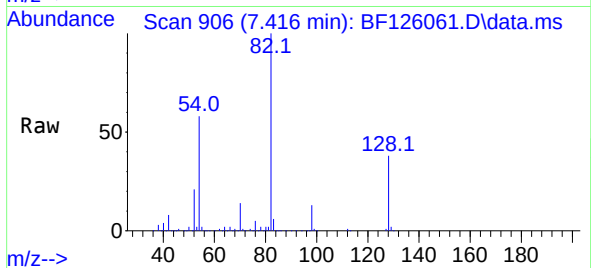
Acq: 8 Nov 2021 12:55

Instrument :

BNA\_F

ClientSampleId :

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Tgt Ion: 82 Resp: 812130

Ion Ratio Lower Upper

82 100

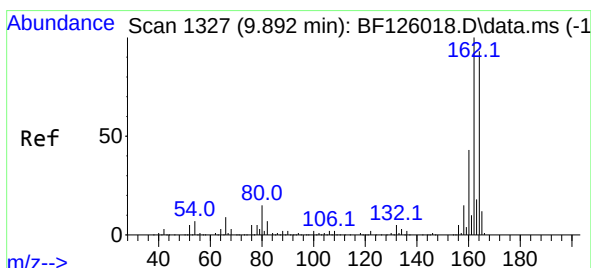
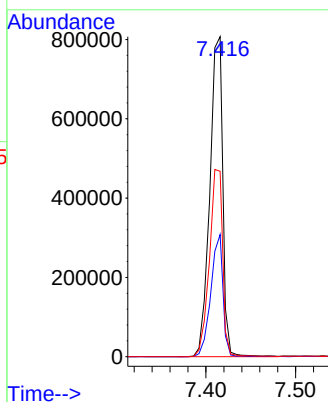
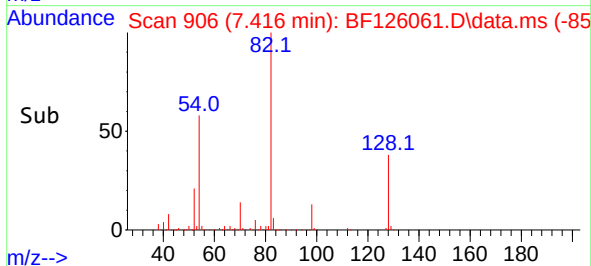
128 38.2 40.6 60.8

54 58.0 49.6 74.4

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.886 min Scan# 1326

Delta R.T. -0.006 min

Lab File: BF126061.D

Acq: 8 Nov 2021 12:55

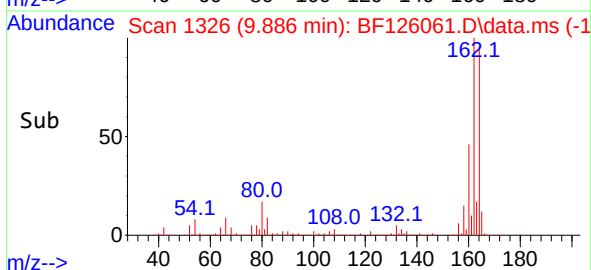
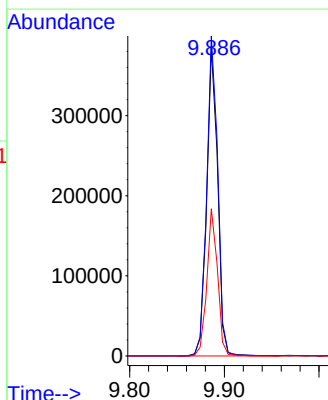
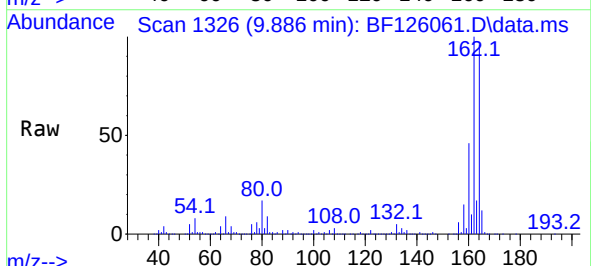
Tgt Ion:164 Resp: 308308

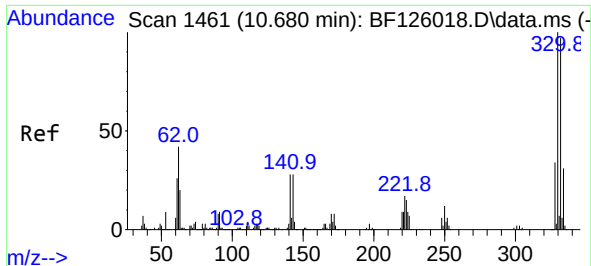
Ion Ratio Lower Upper

164 100

162 104.0 81.3 121.9

160 47.8 38.0 57.0





#42  
2,4,6-Tribromophenol  
Concen: 79.770 ng  
RT: 10.674 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

Instrument :

BNA\_F

ClientSampleId :

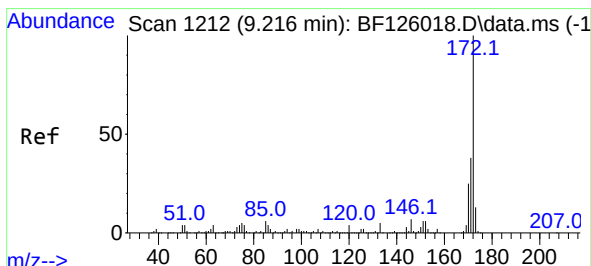
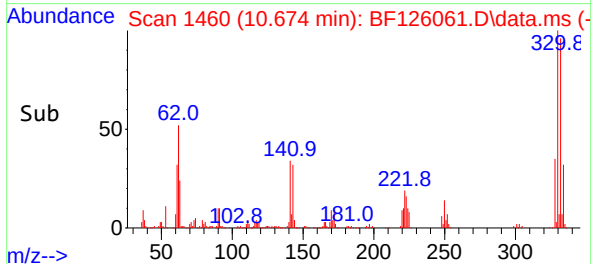
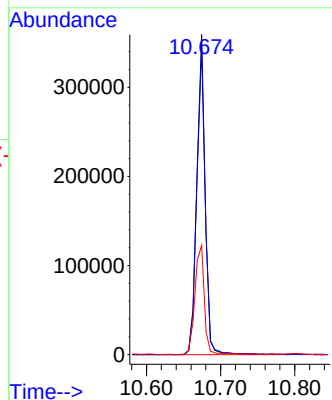
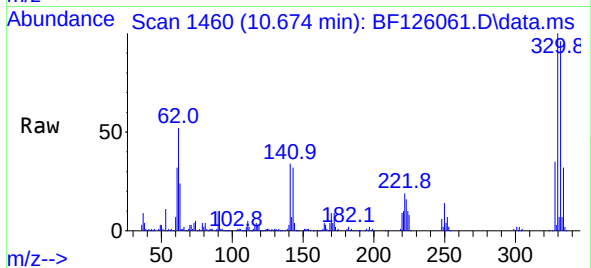
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Tgt Ion:330 Resp: 281840  
Ion Ratio Lower Upper  
330 100  
332 96.8 76.2 114.4  
141 39.3 44.6 66.8

Manual Integrations

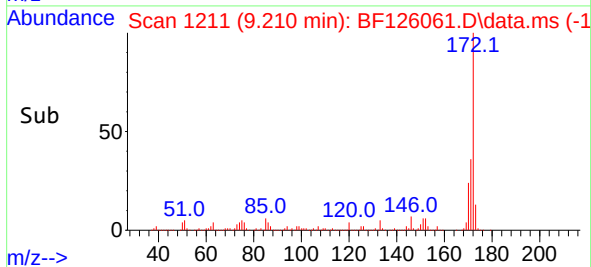
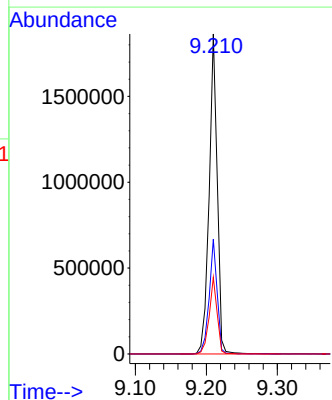
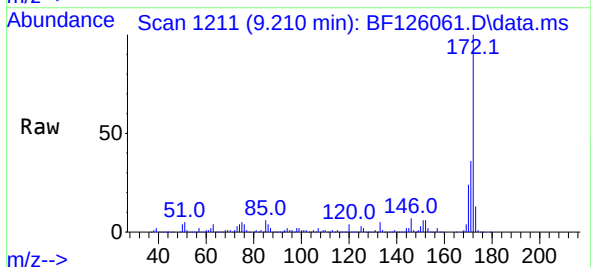
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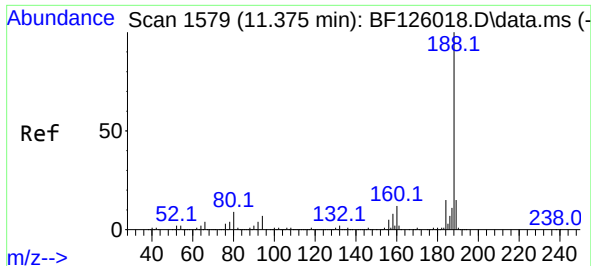
Reviewed By :Jagrut Upadhyay 11/08/2021  
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#45  
2-Fluorobiphenyl  
Concen: 65.190 ng  
RT: 9.210 min Scan# 1211  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

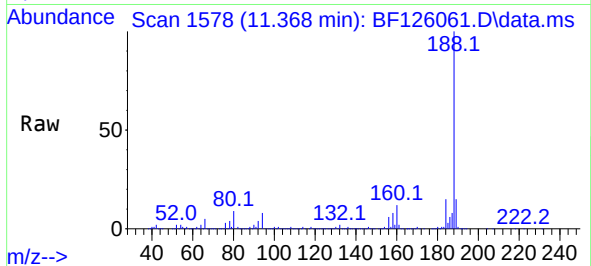
Tgt Ion:172 Resp: 1487283  
Ion Ratio Lower Upper  
172 100  
171 35.8 26.5 39.7  
170 24.0 18.8 28.2





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.368 min Scan# 1579  
Delta R.T. -0.007 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

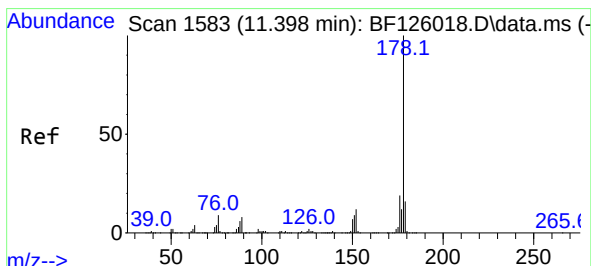
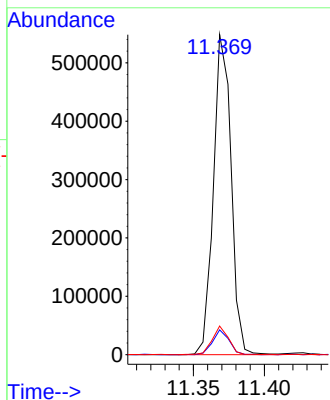
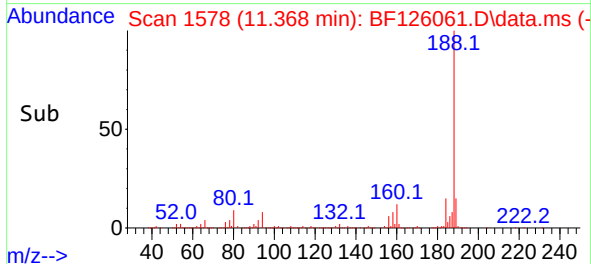
Instrument :  
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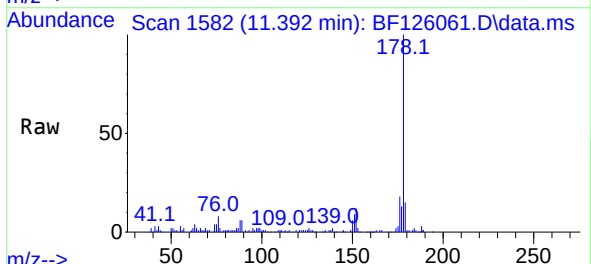
Tgt Ion:188 Resp: 474450  
Ion Ratio Lower Upper  
188 100  
94 7.7 6.7 10.1  
80 9.0 7.5 11.3

Manual Integrations  
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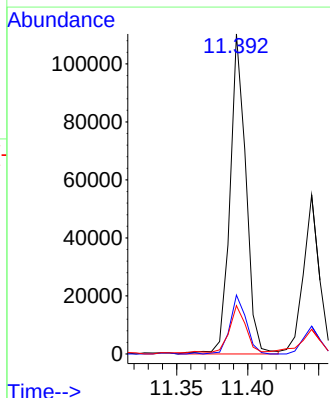
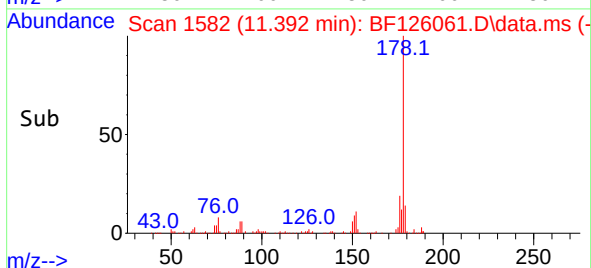
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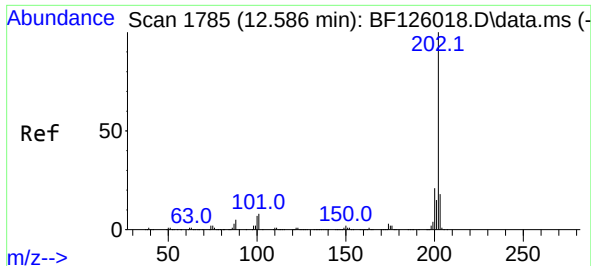


#71  
Phenanthrene  
Concen: 3.331 ng  
RT: 11.392 min Scan# 1582  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55



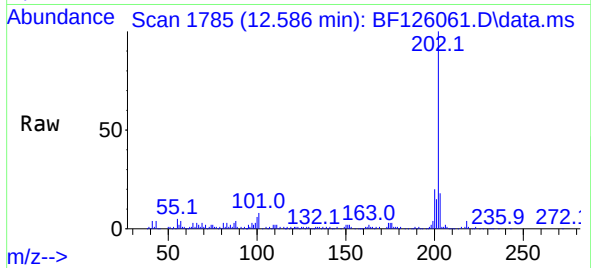
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Ion Ratio Lower Upper  
178 100  
176 18.4 14.7 22.1  
179 15.1 11.5 17.3





#75  
Fluoranthene  
Concen: 3.765 ng  
RT: 12.586 min Scan# 1785  
Delta R.T. 0.000 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

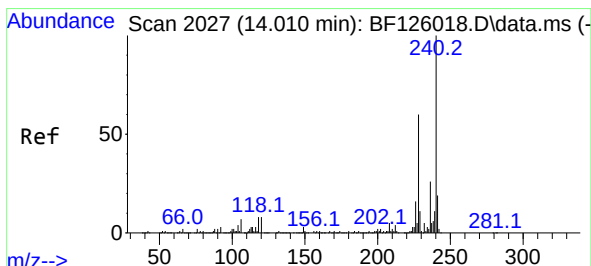
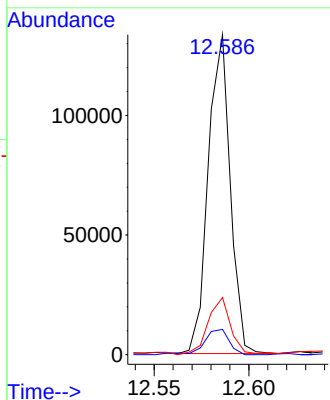
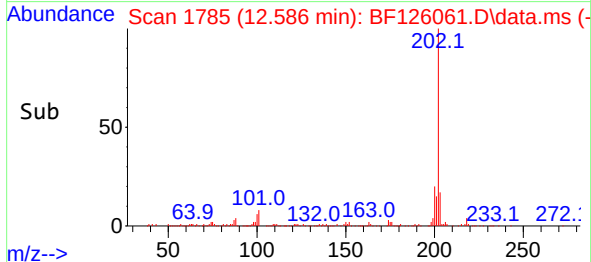
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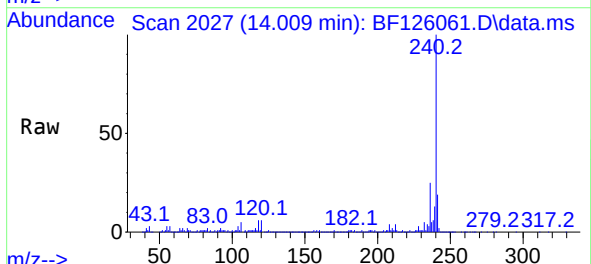
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101 7.9 0.0 30.7  
203 17.9 0.0 36.3

Manual Integrations  
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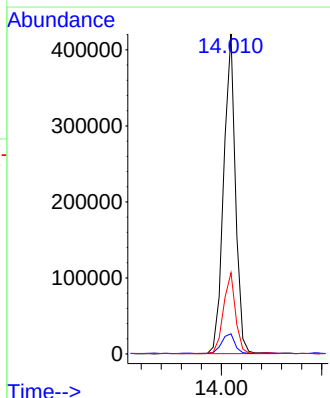
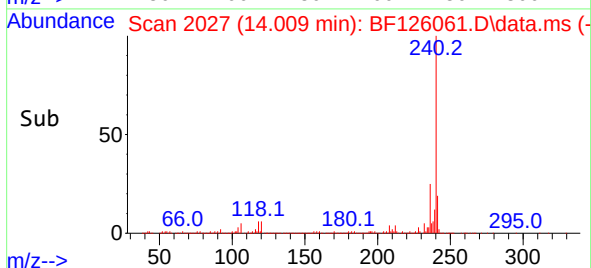
Reviewed By :Jagrut Upadhyay 11/08/2021  
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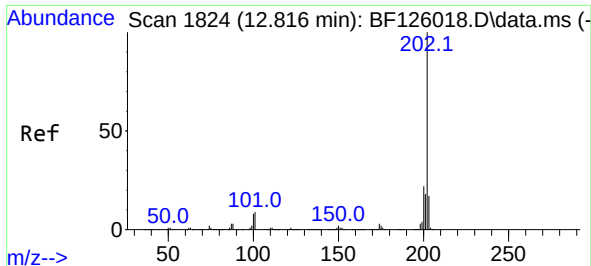
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.009 min Scan# 2027  
Delta R.T. -0.001 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55



Tgt Ion:240 Resp: 342452  
Ion Ratio Lower Upper  
240 100  
120 6.3 10.8 16.2#  
236 25.4 21.6 32.4

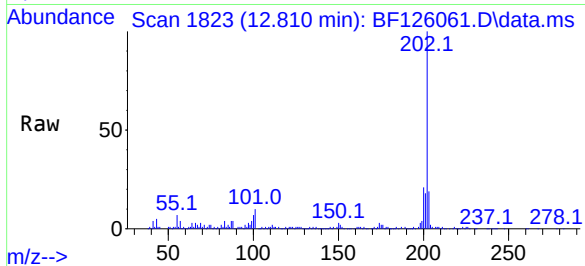






#78  
Pyrene  
Concen: 4.764 ng  
RT: 12.810 min Scan# 1823  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

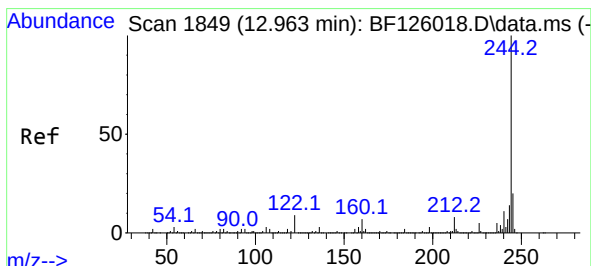
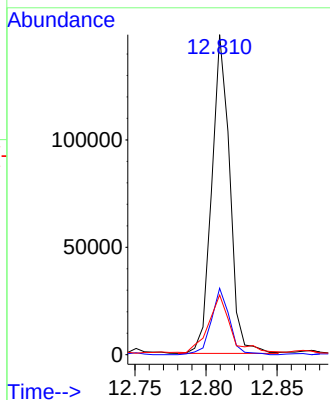
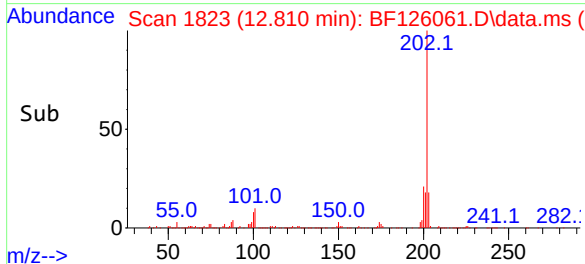
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ClientSampleId :  
TR-8-110321



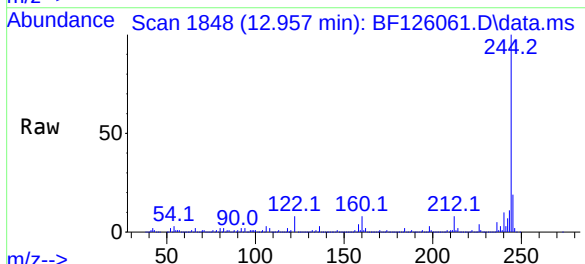
Tgt Ion:202 Resp: 130823  
Ion Ratio Lower Upper  
202 100  
200 20.7 15.3 22.9  
203 18.6 13.4 20.0

Manual Integrations  
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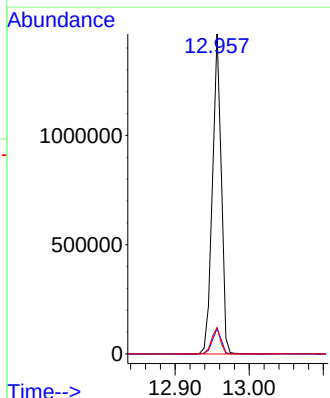
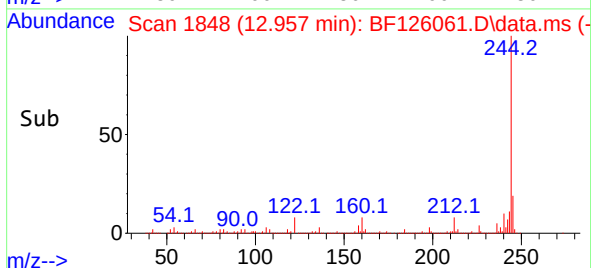
Reviewed By :Jagrut Upadhyay 11/08/2021  
Supervised By :mohammad ahmed 11/09/2021

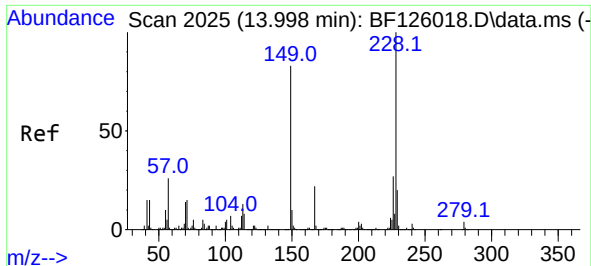


#79  
Terphenyl-d14  
Concen: 57.002 ng  
RT: 12.957 min Scan# 1848  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55



Tgt Ion:244 Resp: 1210545  
Ion Ratio Lower Upper  
244 100  
212 7.9 5.9 8.9  
122 8.3 9.0 13.4#





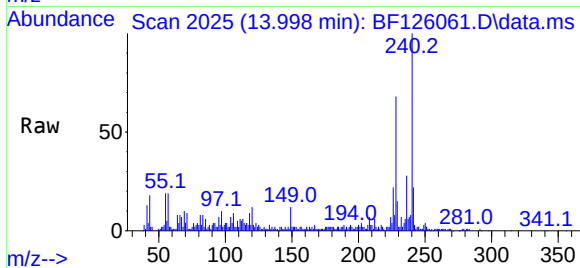
#81  
Benzo(a)anthracene  
Concen: 2.159 ng m  
RT: 13.998 min Scan# 2025  
Delta R.T. -0.000 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

Instrument :

BNA\_F

ClientSampleId :

TR-8-110321

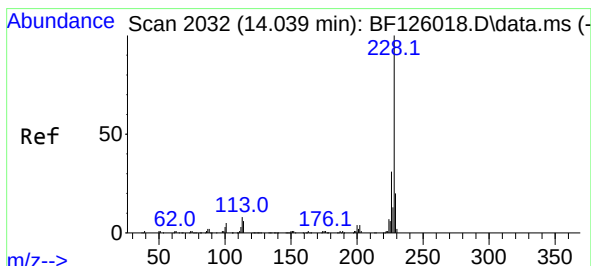
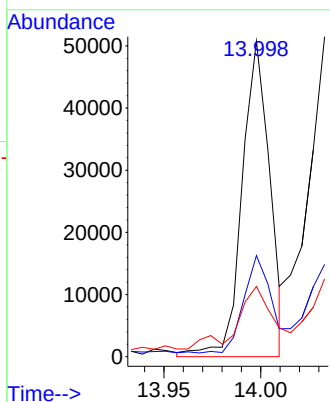
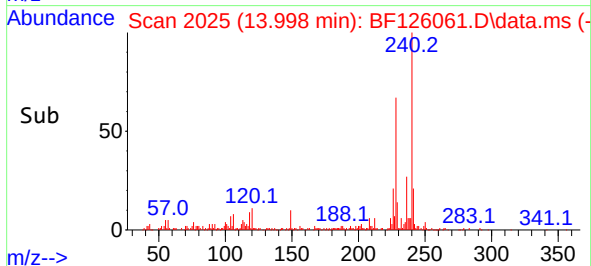


Tgt Ion:228 Resp: 50784  
Ion Ratio Lower Upper  
228 100  
226 32.0 21.6 32.4  
229 22.3 15.6 23.4

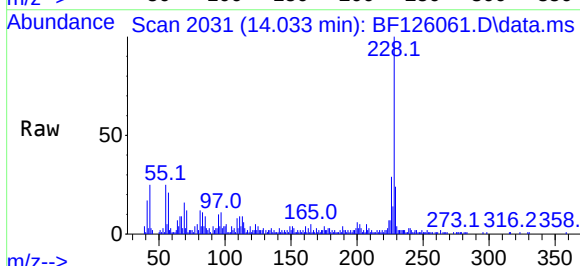
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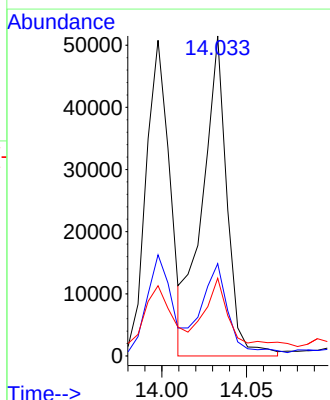
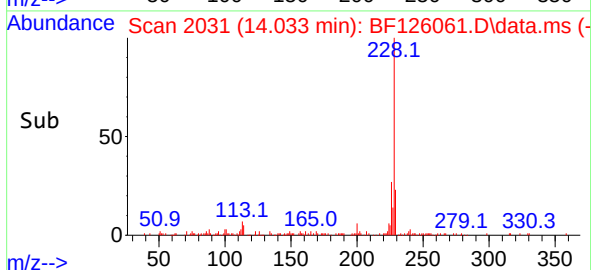
Reviewed By :Jagrut Upadhyay 11/08/2021  
Supervised By :mohammad ahmed 11/09/2021

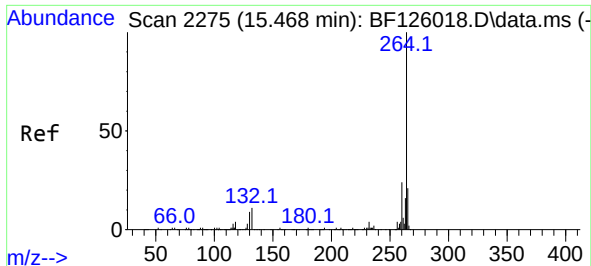


#83  
Chrysene  
Concen: 2.391 ng m  
RT: 14.033 min Scan# 2031  
Delta R.T. -0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55



Tgt Ion:228 Resp: 52332  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.6 34.0  
229 24.3 15.9 23.9#





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.474 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

Instrument :

BNA\_F

ClientSampleId :

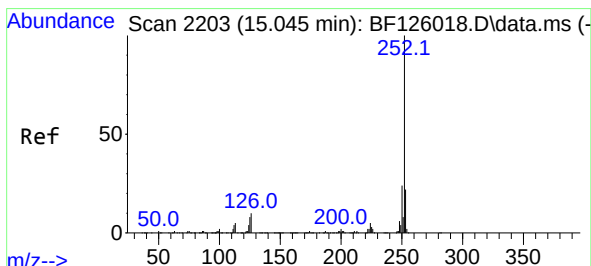
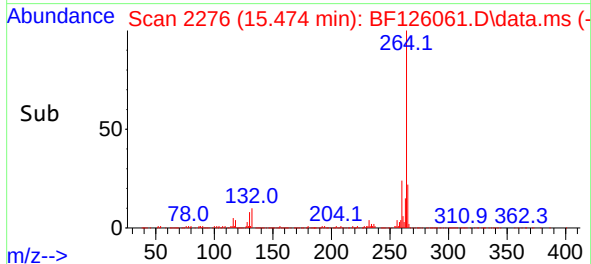
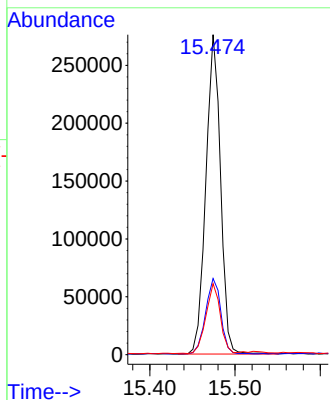
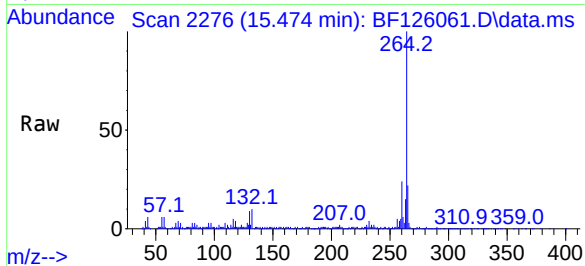
TR-8-110321

Tgt Ion:264 Resp: 32884  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.6 29.4  
265 22.2 17.2 25.8

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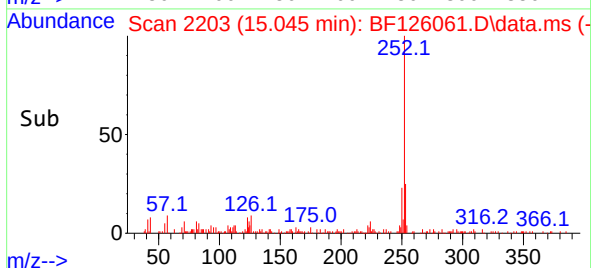
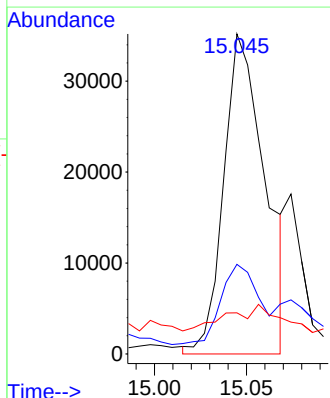
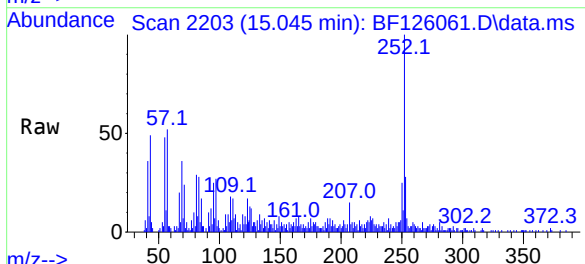
APPROVED

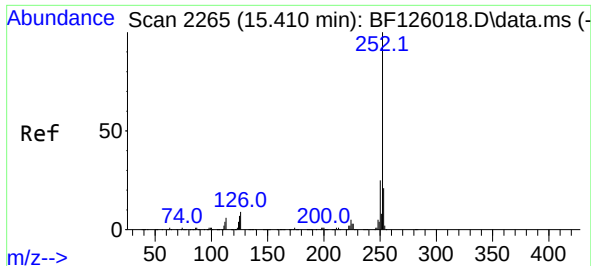
Reviewed By :Jagrut Upadhyay 11/08/2021  
Supervised By :mohammad ahmed 11/09/2021



#88  
Benzo(b)fluoranthene  
Concen: 2.565 ng m  
RT: 15.045 min Scan# 2203  
Delta R.T. -0.000 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

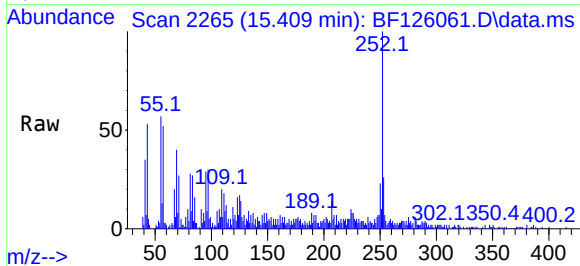
Tgt Ion:252 Resp: 54858  
Ion Ratio Lower Upper  
252 100  
253 28.0 16.8 25.2#  
125 12.9 9.8 14.8





#90  
Benzo(a)pyrene  
Concen: 2.164 ng  
RT: 15.409 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BF126061.D  
Acq: 8 Nov 2021 12:55

Instrument :  
BNA\_F  
ClientSampleId :  
TR-8-110321



Tgt Ion:252 Resp: 3647  
Ion Ratio Lower Upper  
252 100  
253 26.3 18.4 27.6  
125 16.7 9.9 14.9

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Reviewed By :Jagrut Upadhyay 11/08/2021  
Supervised By :mohammad ahmed 11/09/2021

