

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
 Data File : BF126030.D  
 Acq On : 3 Nov 2021 20:56  
 Operator : JU/CG  
 Sample : M4427-03 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FDR-BH-4-20211029-7.5-8

Quant Time: Nov 04 10:11:55 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

### Manual Integrations APPROVED

Reviewed By : Christian Giraldo 11/04/2021  
 Supervised By : mohammad ahmed 11/08/2021

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.851  | 152  | 164547   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.134  | 136  | 622519   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.886  | 164  | 352916   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.369 | 188  | 580212   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.010 | 240  | 358424   | 20.00 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.468 | 264  | 356491   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.451  | 112  | 197205   | 20.58 | ng    | -0.01    |
| 7) Phenol-d6                | 6.463  | 99   | 259983   | 19.25 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.404  | 82   | 190804   | 14.45 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.669 | 330  | 71350    | 17.64 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.204  | 172  | 382800   | 14.66 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.951 | 244  | 311068   | 13.99 | ng    | -0.01    |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 8.151  | 128  | 64534    | 2.00  | ng    | 98       |
| 71) Phenanthrene            | 11.392 | 178  | 90565    | 2.88  | ng    | 99       |
| 72) Anthracene              | 11.445 | 178  | 155767   | 4.96  | ng    | 99       |
| 75) Fluoranthene            | 12.592 | 202  | 1774733  | 50.65 | ng    | 94       |
| 78) Pyrene                  | 12.816 | 202  | 1333513  | 46.39 | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.998 | 228  | 688839   | 27.98 | ng    | 97       |
| 83) Chrysene                | 14.033 | 228  | 511777   | 22.34 | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.915 | 276  | 199003   | 9.43  | ng    | # 84     |
| 88) Benzo(b)fluoranthene    | 15.045 | 252  | 572854m  | 24.70 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.068 | 252  | 205208m  | 9.12  | ng    |          |
| 90) Benzo(a)pyrene          | 15.410 | 252  | 482784m  | 26.43 | ng    |          |
| 91) Dibenzo(a,h)anthracene  | 16.927 | 278  | 62864m   | 3.63  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.356 | 276  | 161365   | 9.71  | ng    | # 85     |
| -----                       |        |      |          |       |       |          |

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

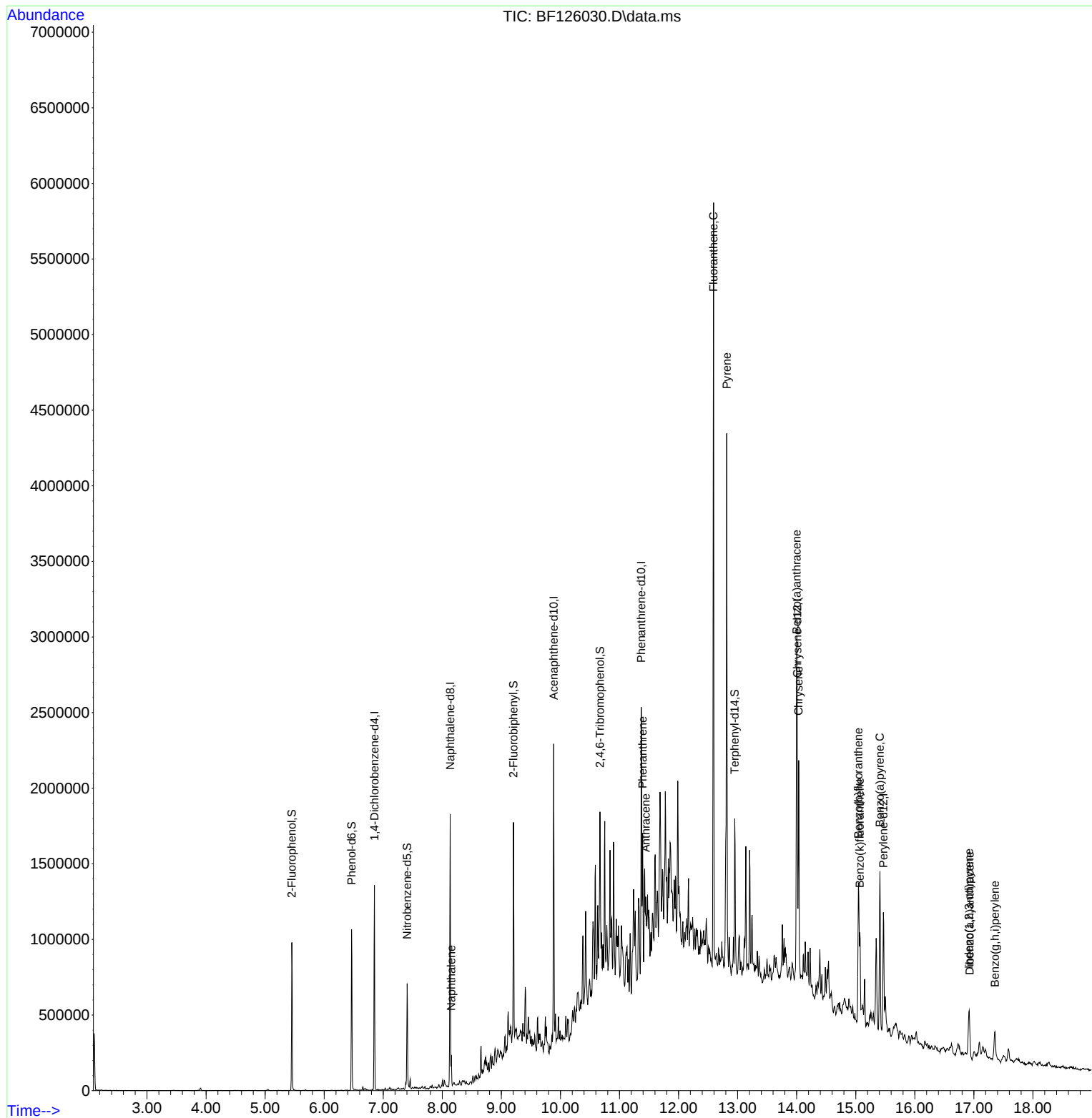
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110321\  
Data File : BF126030.D  
Acq On : 3 Nov 2021 20:56  
Operator : JU/CG  
Sample : M4427-03 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8

Quant Time: Nov 04 10:11:55 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

Manual Integrations  
APPROVED

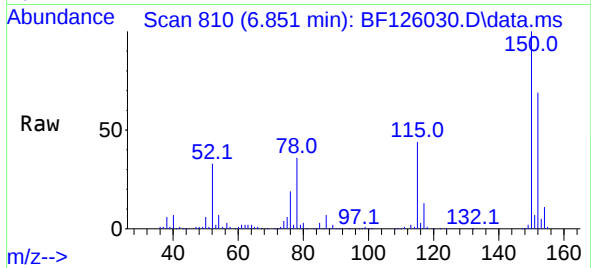
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.851 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

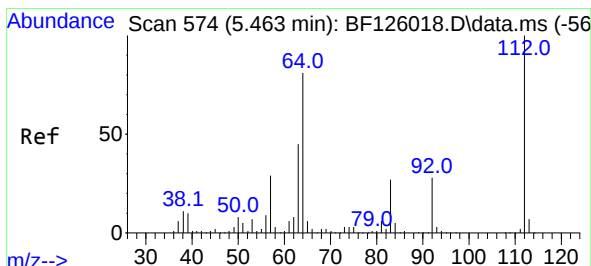
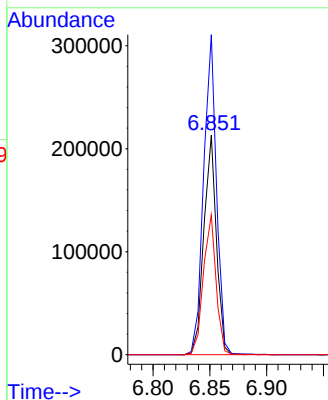
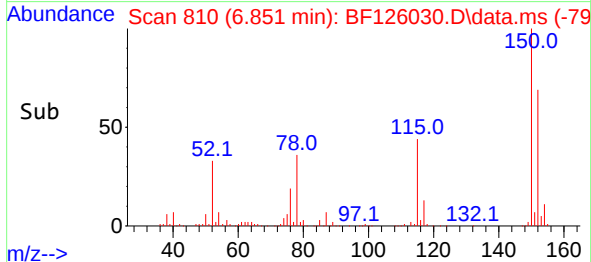
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



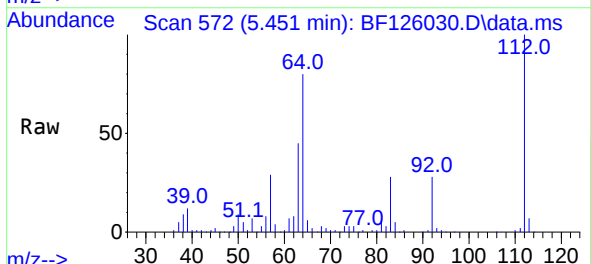
Tgt Ion:152 Resp: 16454  
Ion Ratio Lower Upper  
152 100  
150 145.8 117.6 176.4  
115 63.7 47.1 70.7

Manual Integrations  
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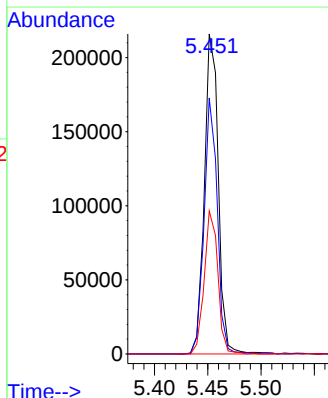
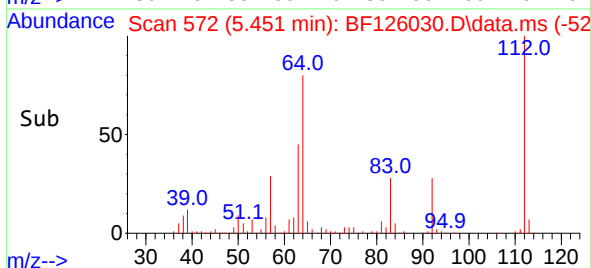
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



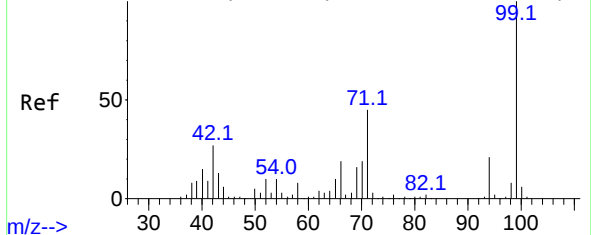
#5  
2-Fluorophenol  
Concen: 20.58 ng  
RT: 5.451 min Scan# 572  
Delta R.T. -0.012 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56



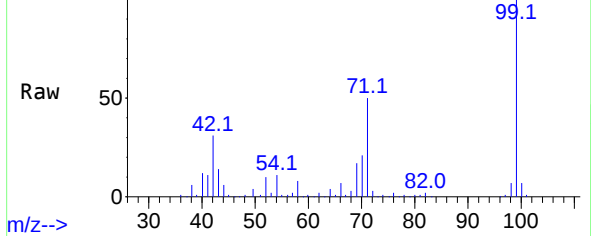
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Ion Ratio Lower Upper  
112 100  
64 79.9 44.2 66.2#  
63 44.7 26.2 39.2#



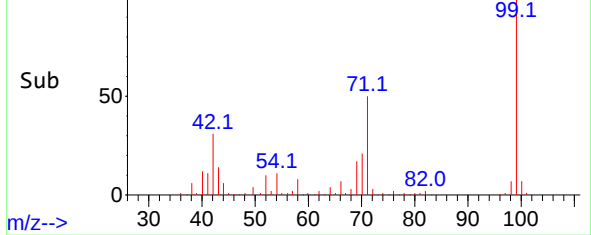
Abundance Scan 748 (6.487 min): BF126018.D\data.ms (-74



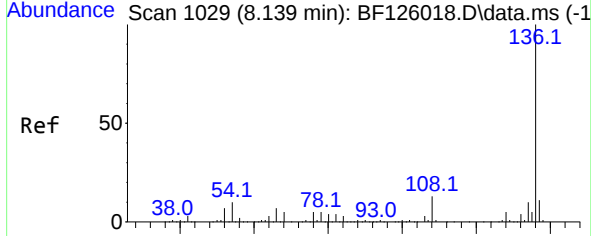
m/z--> Scan 744 (6.463 min): BF126030.D\data.ms



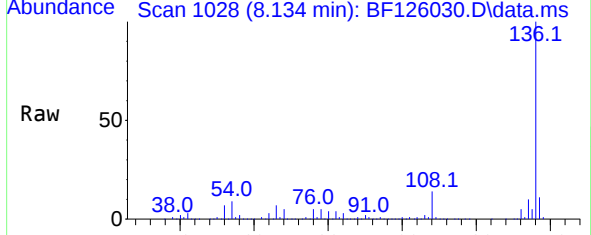
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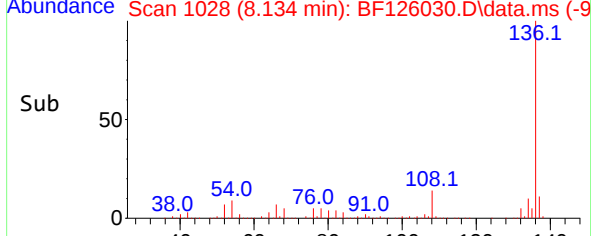
m/z--> Scan 1029 (8.139 min): BF126018.D\data.ms (-1



m/z--> Scan 1028 (8.134 min): BF126030.D\data.ms



Abundance Scan 1028 (8.134 min): BF126030.D\data.ms (-9



m/z--> Scan 1028 (8.134 min): BF126030.D\data.ms (-9

#7

Phenol-d6

Concen: 19.25 ng

RT: 6.463 min Scan# 74

Delta R.T. -0.024 min

Lab File: BF126030.D

Acq: 3 Nov 2021 20:56

Instrument :

BNA\_F

ClientSampleId :

FDR-BH-4-20211029-7.5-8

Tgt Ion: 99 Resp: 25998

Ion Ratio Lower Upper

99 100

42 31.1 23.5 35.3

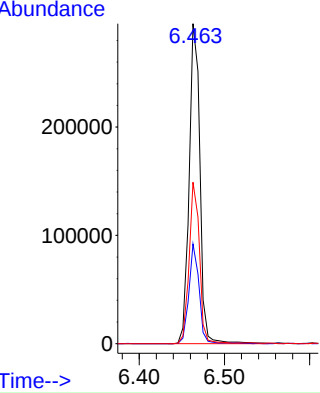
71 50.5 25.6 38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.134 min Scan# 1028

Delta R.T. -0.005 min

Lab File: BF126030.D

Acq: 3 Nov 2021 20:56

Tgt Ion:136 Resp: 622519

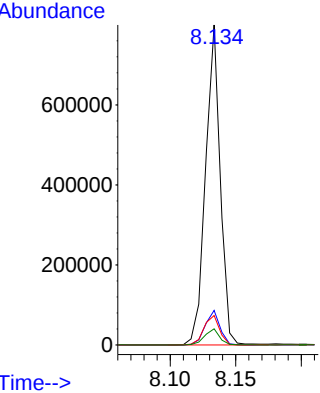
Ion Ratio Lower Upper

136 100

137 10.8 9.8 14.6

54 9.2 6.4 9.6

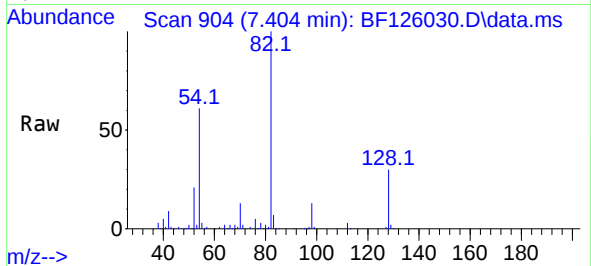
68 5.1 3.3 4.9





#23  
Nitrobenzene-d5  
Concen: 14.45 ng  
RT: 7.404 min Scan# 907  
Delta R.T. -0.018 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

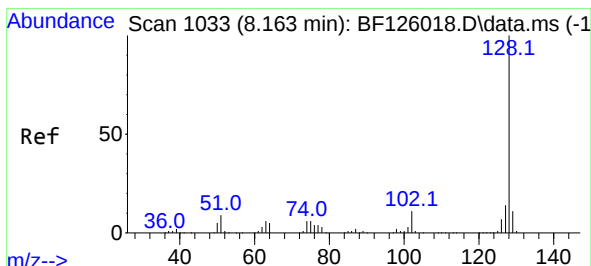
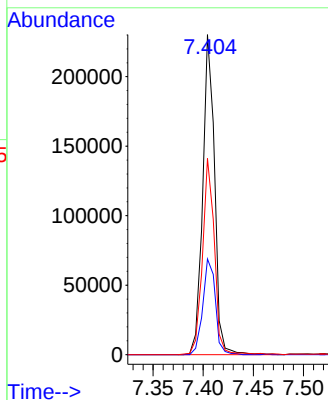
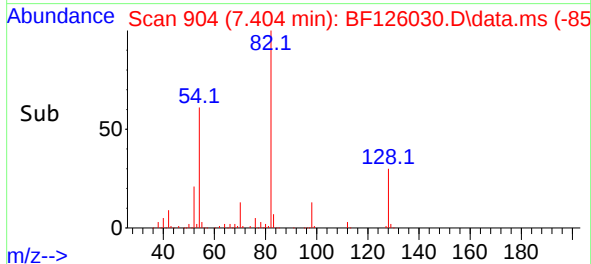
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion: 82 Resp: 190804  
Ion Ratio Lower Upper  
82 100  
128 29.9 40.6 60.8  
54 61.3 49.6 74.4

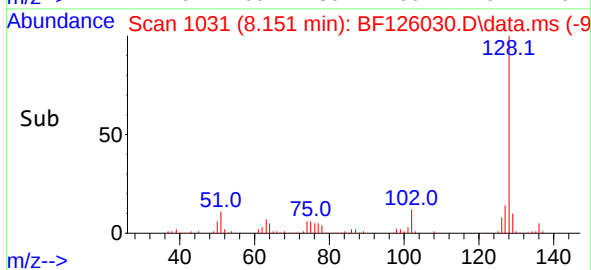
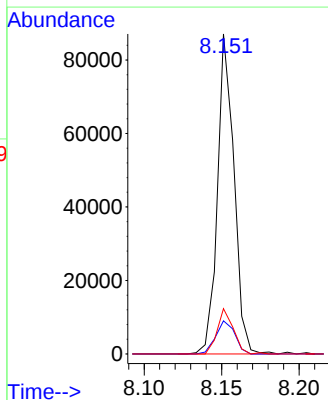
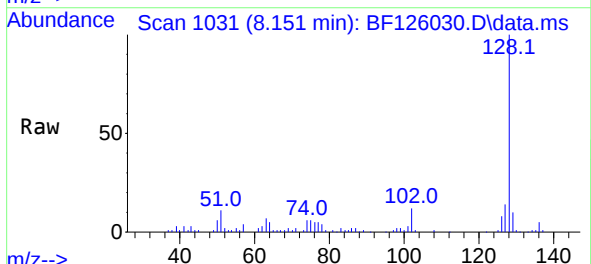
Manual Integrations  
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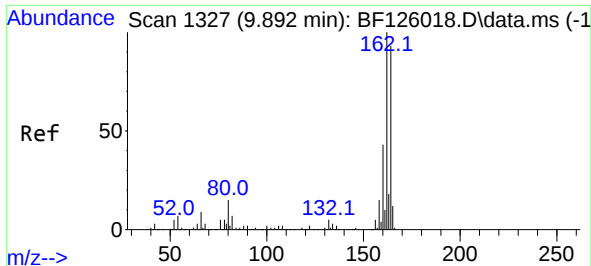
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



#31  
Naphthalene  
Concen: 2.00 ng  
RT: 8.151 min Scan# 1031  
Delta R.T. -0.012 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

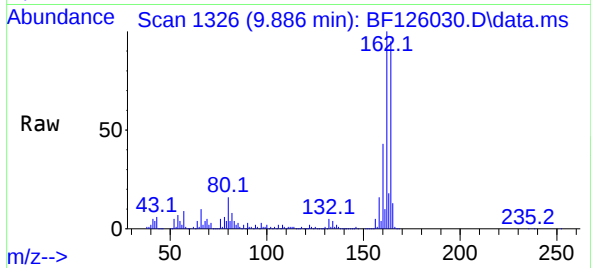
Tgt Ion:128 Resp: 64534  
Ion Ratio Lower Upper  
128 100  
129 10.3 9.4 14.0  
127 14.1 10.9 16.3





#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.886 min Scan# 1459  
Delta R.T. -0.006 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

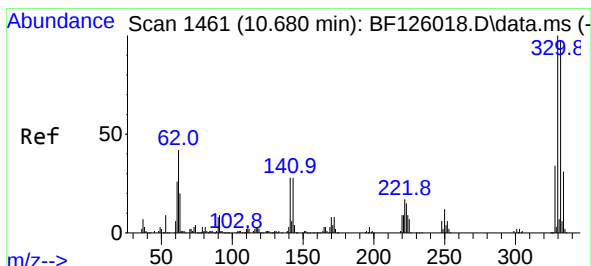
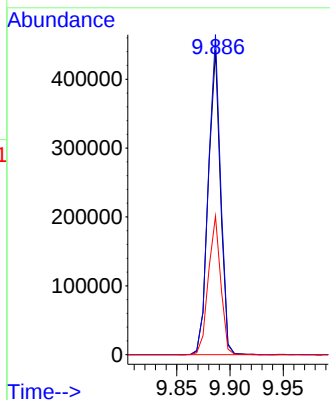
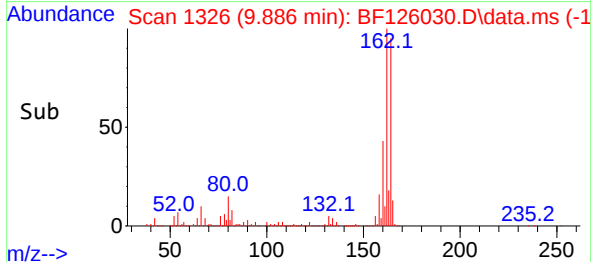
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion:164 Resp: 352910  
Ion Ratio Lower Upper  
164 100  
162 105.1 81.3 121.9  
160 45.5 38.0 57.0

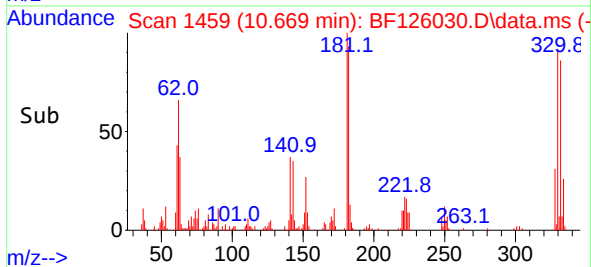
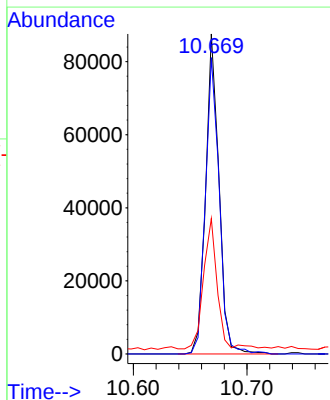
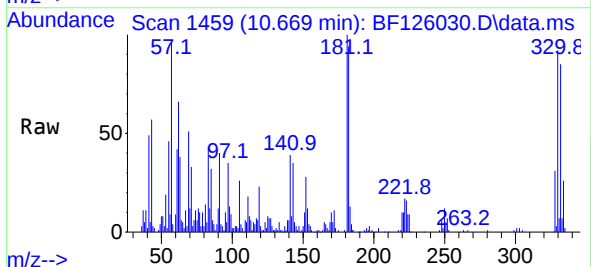
Manual Integrations  
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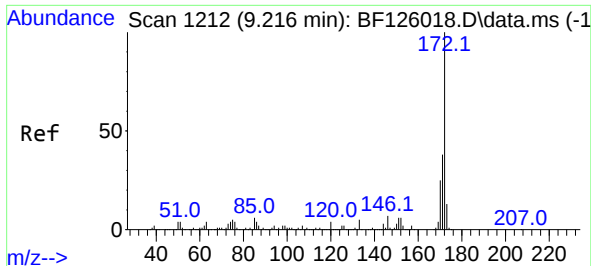
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



#42  
2,4,6-Tribromophenol  
Concen: 17.64 ng  
RT: 10.669 min Scan# 1459  
Delta R.T. -0.012 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

Tgt Ion:330 Resp: 71350  
Ion Ratio Lower Upper  
330 100  
332 96.3 76.2 114.4  
141 42.1 44.6 66.8#





#45

2-Fluorobiphenyl

Concen: 14.66 ng

RT: 9.204 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF126030.D

Acq: 3 Nov 2021 20:56

Instrument :

BNA\_F

ClientSampleId :

FDR-BH-4-20211029-7.5-8

Tgt Ion:172 Resp: 382800

Ion Ratio Lower Upper

172 100

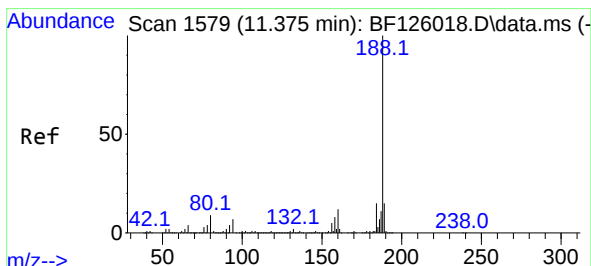
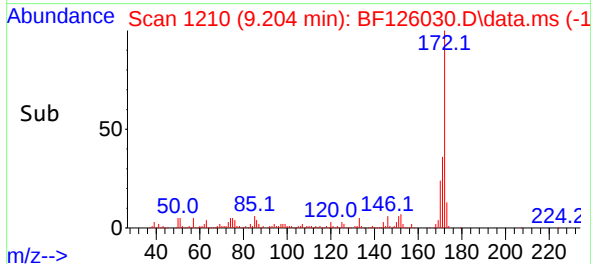
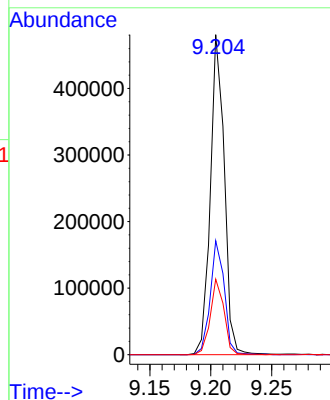
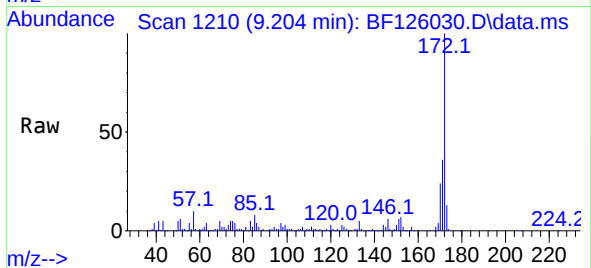
171 35.6 26.5 39.7

170 23.6 18.8 28.2

Manual Integrations

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#64

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.369 min Scan# 1578

Delta R.T. -0.006 min

Lab File: BF126030.D

Acq: 3 Nov 2021 20:56

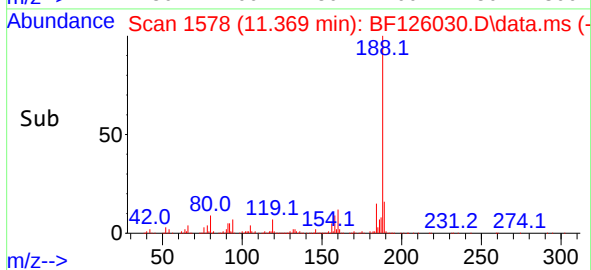
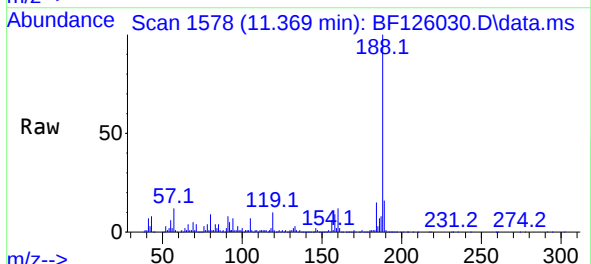
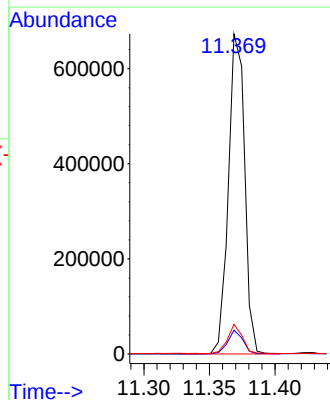
Tgt Ion:188 Resp: 580212

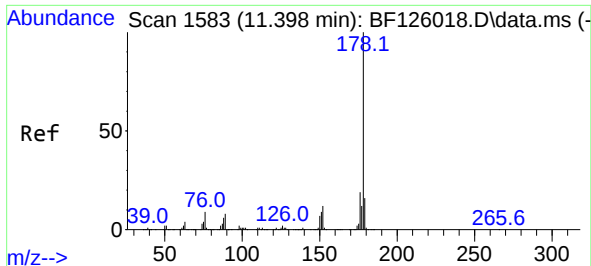
Ion Ratio Lower Upper

188 100

94 7.5 6.7 10.1

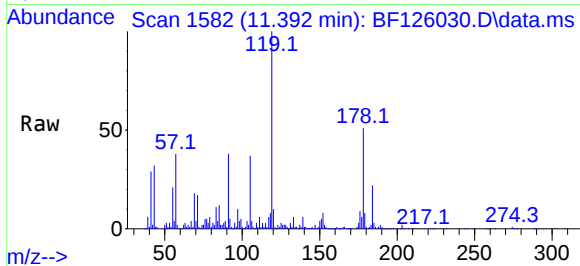
80 9.2 7.5 11.3





#71  
Phenanthrene  
Concen: 2.88 ng  
RT: 11.392 min Scan# 1139  
Delta R.T. -0.006 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

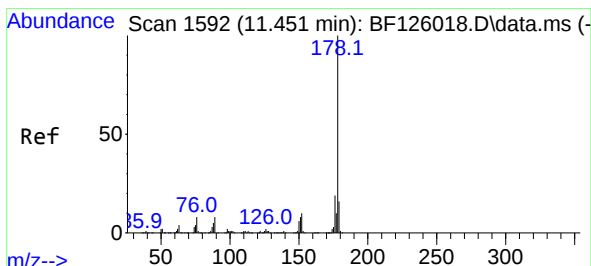
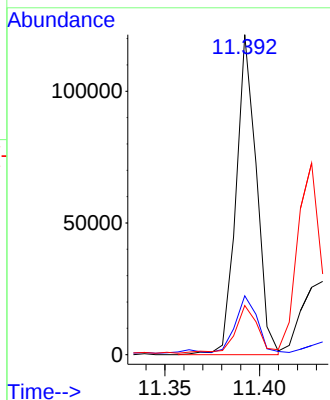
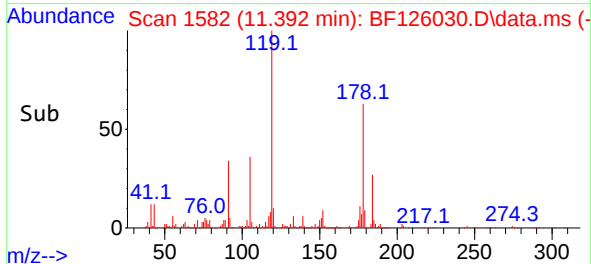
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



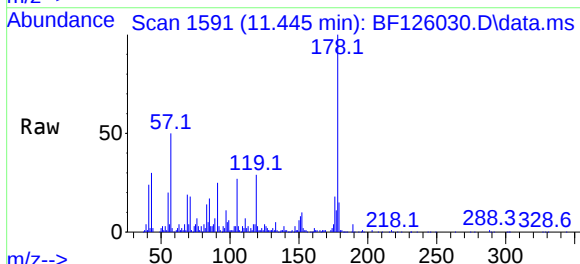
Tgt Ion:178 Resp: 9056  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.7 22.1  
179 15.3 11.5 17.3

Manual Integrations  
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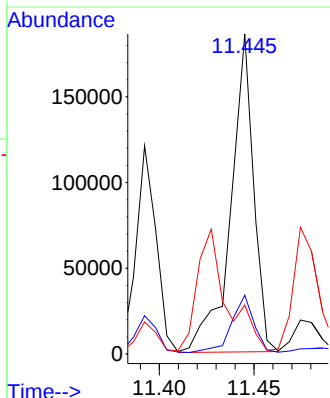
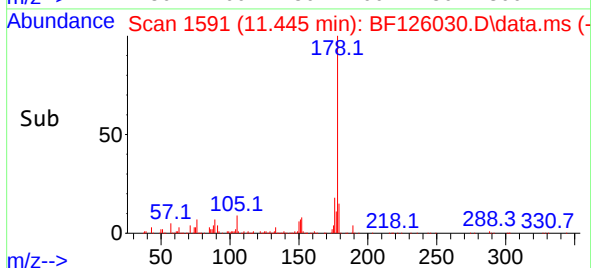
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021

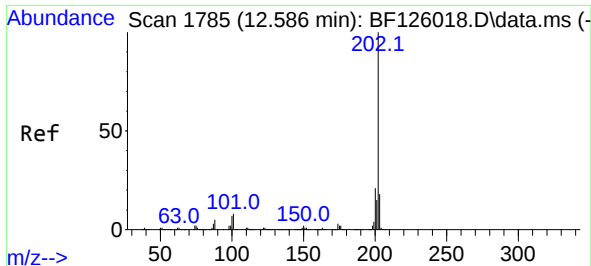


#72  
Anthracene  
Concen: 4.96 ng  
RT: 11.445 min Scan# 1591  
Delta R.T. -0.006 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56



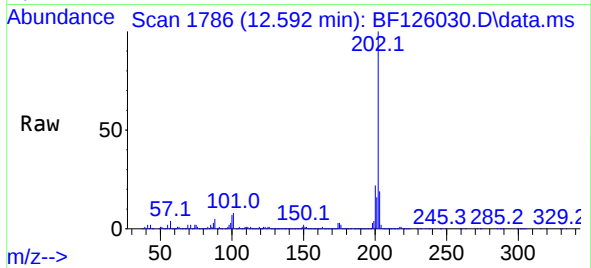
Tgt Ion:178 Resp: 155767  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.3 21.5  
179 15.3 12.2 18.4





#75  
Fluoranthene  
Concen: 50.65 ng  
RT: 12.592 min Scan# 1785  
Delta R.T. 0.006 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

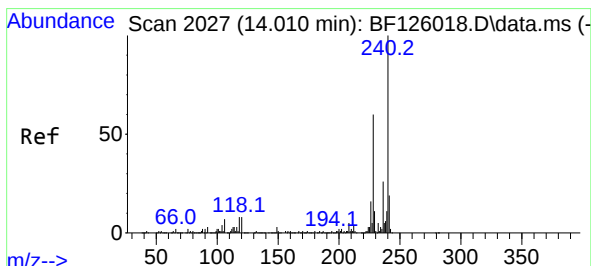
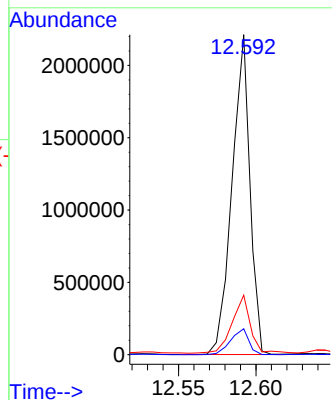
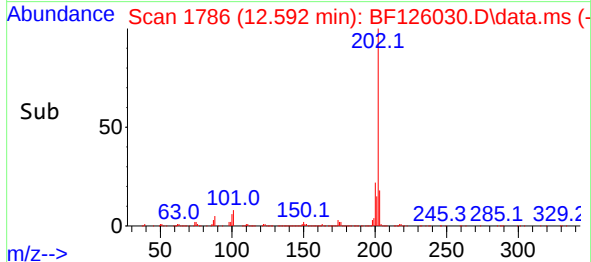
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion:202 Resp: 1774733  
Ion Ratio Lower Upper  
202 100  
101 8.1 0.0 30.7  
203 18.6 0.0 36.3

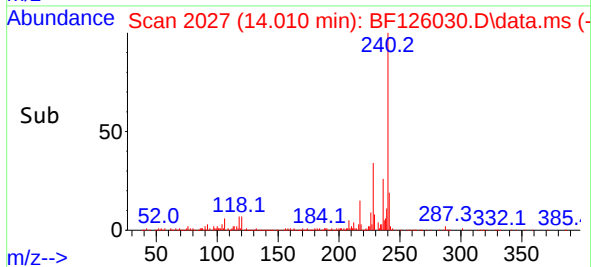
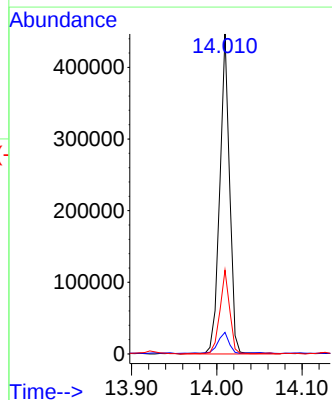
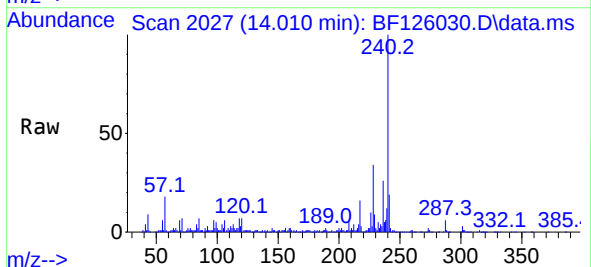
Manual Integrations  
APPROVED

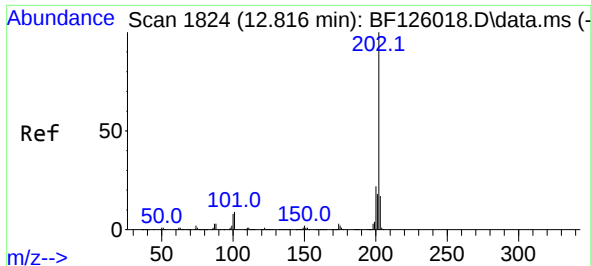
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. -0.000 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

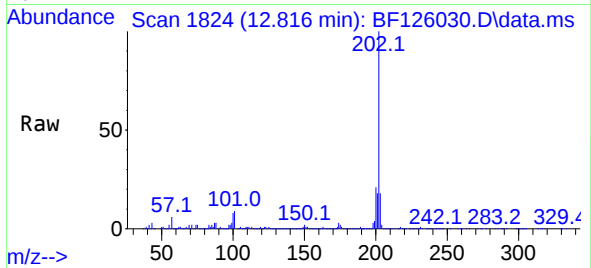
Tgt Ion:240 Resp: 358424  
Ion Ratio Lower Upper  
240 100  
120 6.8 10.8 16.2#  
236 26.2 21.6 32.4





#78  
Pyrene  
Concen: 46.39 ng  
RT: 12.816 min Scan# 1824  
Delta R.T. -0.000 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

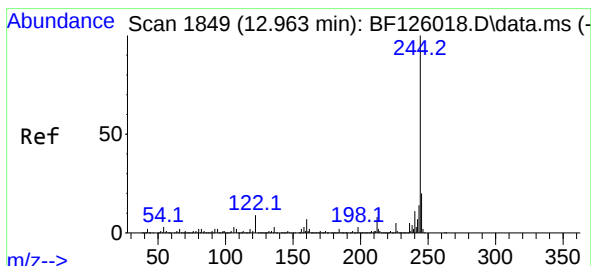
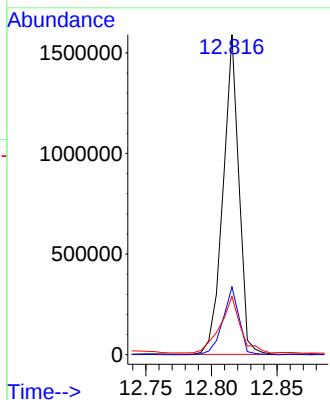
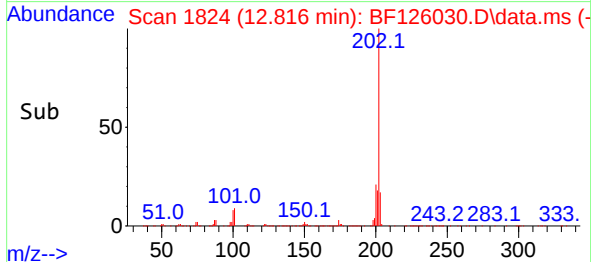
Instrument : BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion:202 Resp: 133351  
Ion Ratio Lower Upper  
202 100  
200 21.1 15.3 22.9  
203 18.2 13.4 20.0

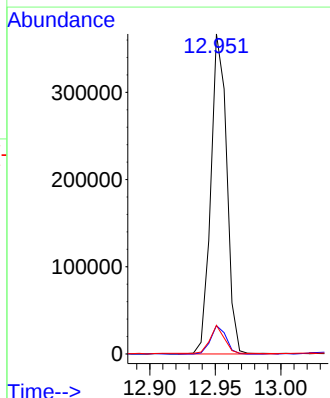
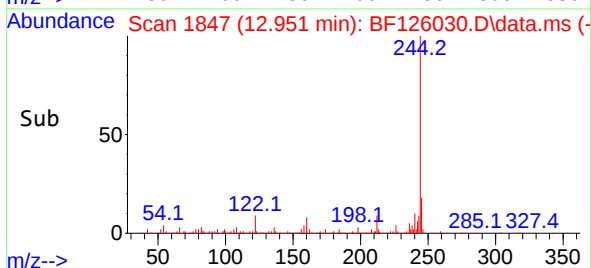
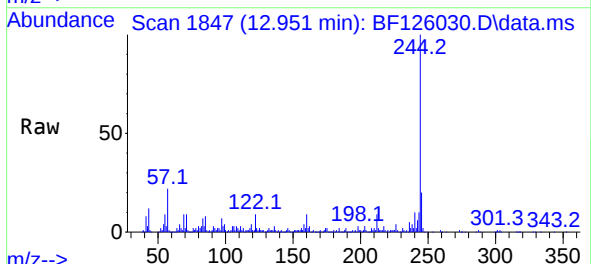
Manual Integrations  
APPROVED

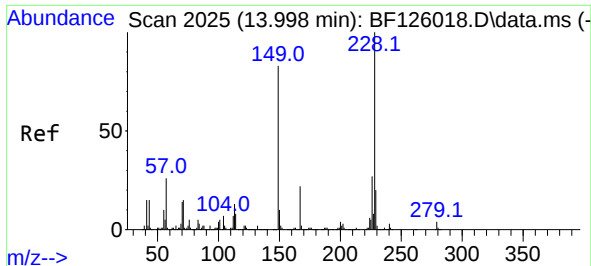
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



#79  
Terphenyl-d14  
Concen: 13.99 ng  
RT: 12.951 min Scan# 1847  
Delta R.T. -0.012 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

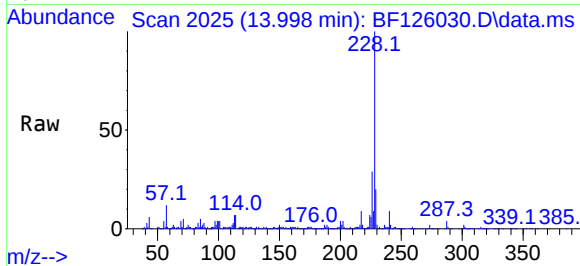
Tgt Ion:244 Resp: 311068  
Ion Ratio Lower Upper  
244 100  
212 8.9 5.9 8.9  
122 8.9 9.0 13.4#





#81  
Benzo(a)anthracene  
Concen: 27.98 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. -0.000 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

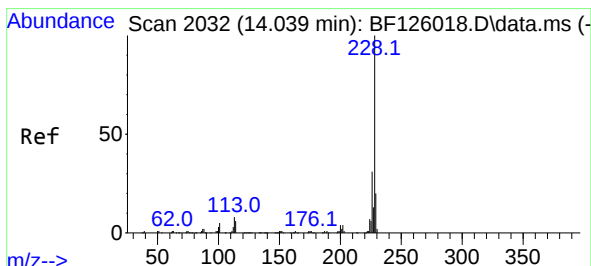
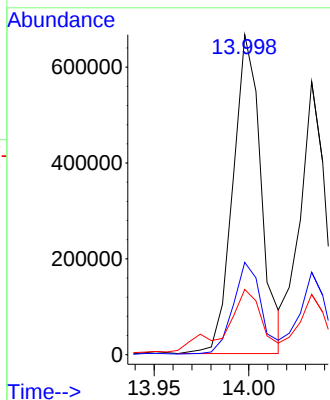
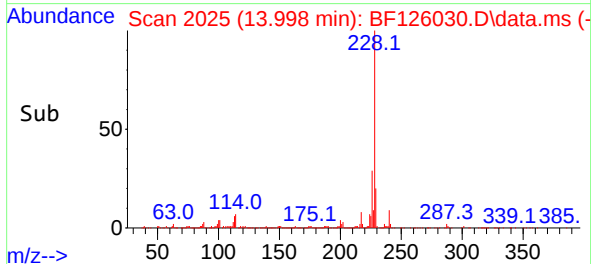
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion:228 Resp: 688839  
Ion Ratio Lower Upper  
228 100  
226 28.9 21.6 32.4  
229 20.4 15.6 23.4

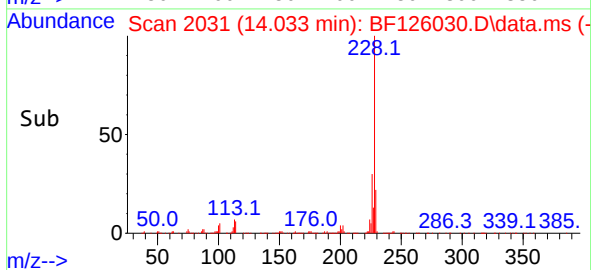
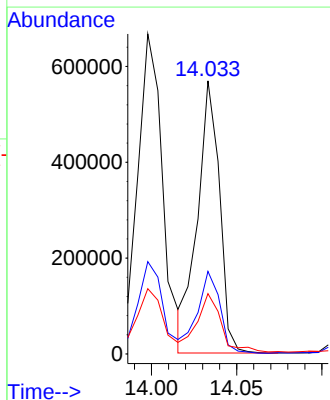
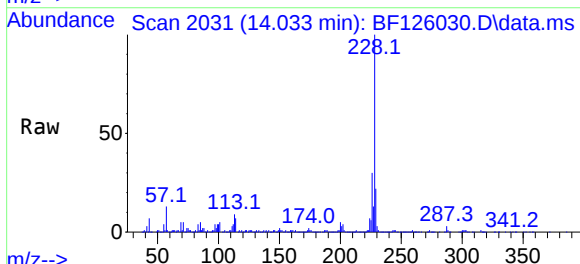
Manual Integrations  
APPROVED

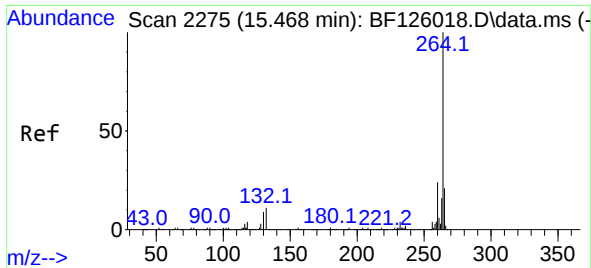
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



#83  
Chrysene  
Concen: 22.34 ng  
RT: 14.033 min Scan# 2031  
Delta R.T. -0.006 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

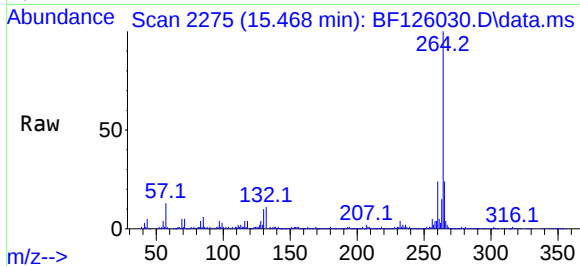
Tgt Ion:228 Resp: 511777  
Ion Ratio Lower Upper  
228 100  
226 30.2 22.6 34.0  
229 22.1 15.9 23.9





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.468 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

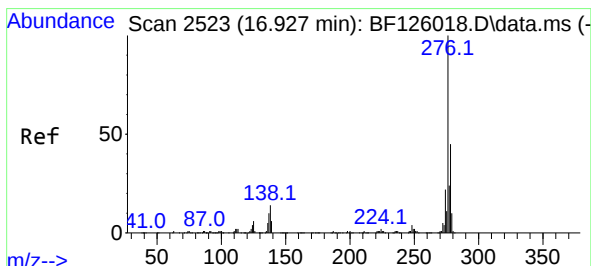
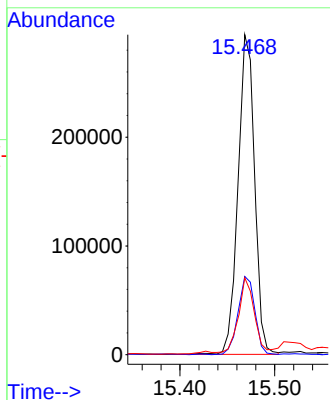
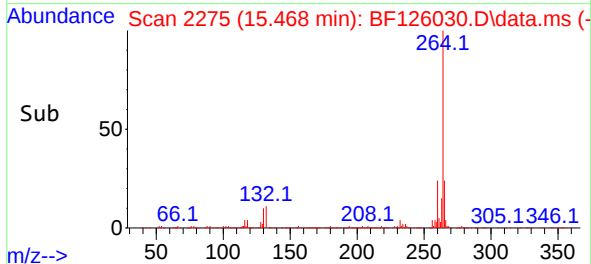
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



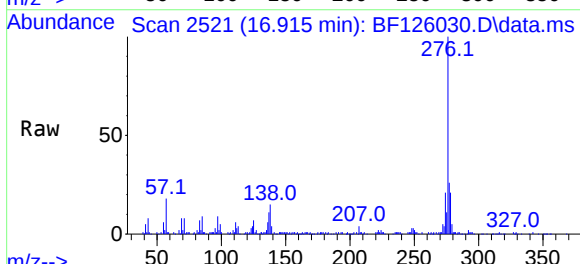
Tgt Ion:264 Resp: 35649  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.6 29.4  
265 24.0 17.2 25.8

Manual Integrations  
APPROVED

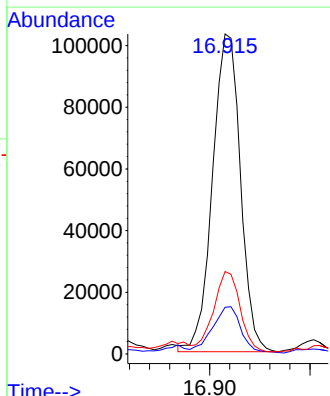
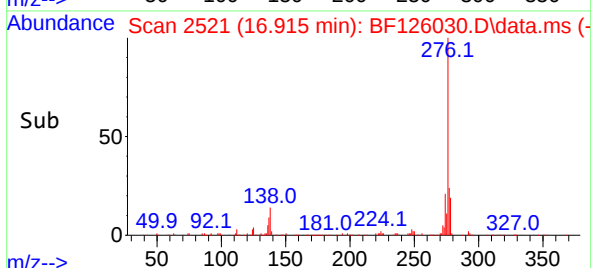
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021

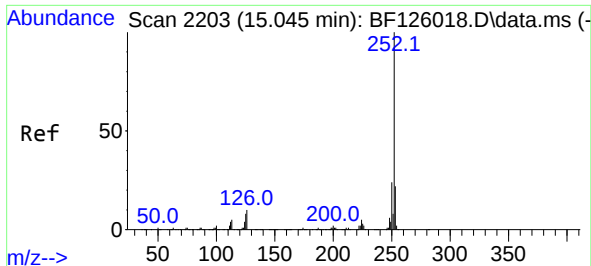


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 9.43 ng  
RT: 16.915 min Scan# 2521  
Delta R.T. -0.012 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56



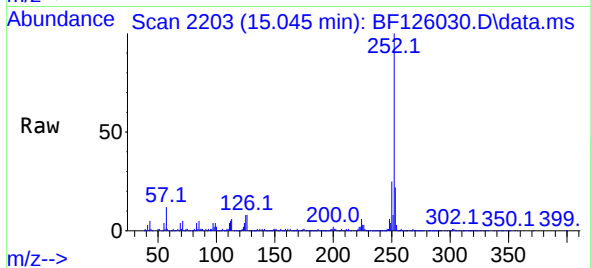
Tgt Ion:276 Resp: 199003  
Ion Ratio Lower Upper  
276 100  
138 15.0 24.1 36.1#  
277 24.2 18.8 28.2





#88  
Benzo(b)fluoranthene  
Concen: 24.70 ng m  
RT: 15.045 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

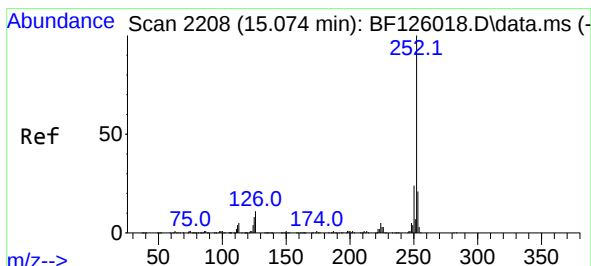
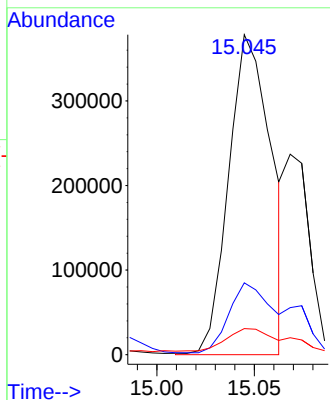
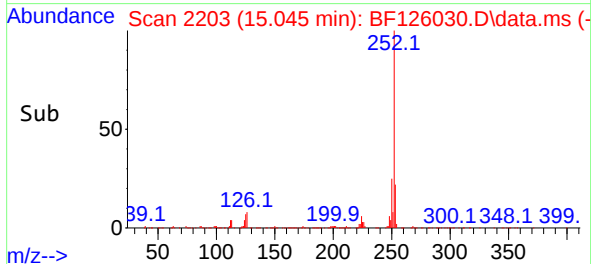
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion:252 Resp: 572854  
Ion Ratio Lower Upper  
252 100  
253 22.5 16.8 25.2  
125 8.2 9.8 14.8

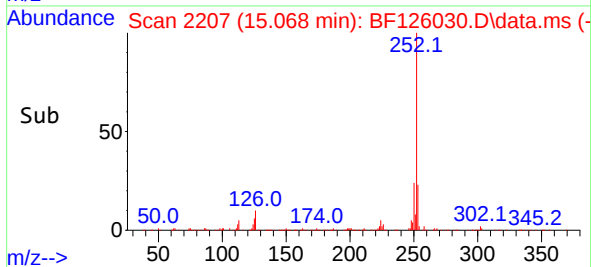
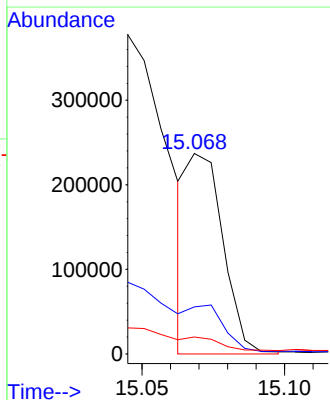
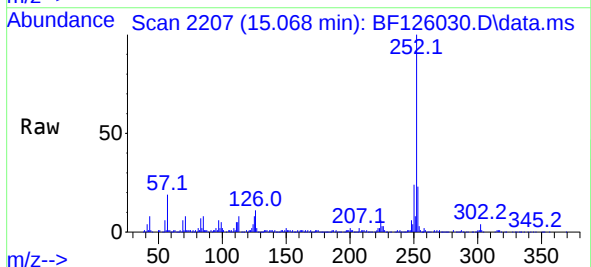
Manual Integrations  
APPROVED

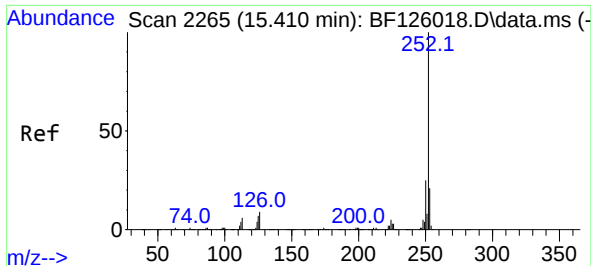
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



#89  
Benzo(k)fluoranthene  
Concen: 9.12 ng m  
RT: 15.068 min Scan# 2207  
Delta R.T. -0.006 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

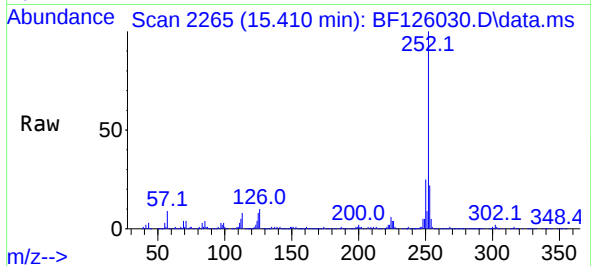
Tgt Ion:252 Resp: 205208  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.8 26.8  
125 8.4 7.2 10.8





#90  
Benzo(a)pyrene  
Concen: 26.43 ng m  
RT: 15.410 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

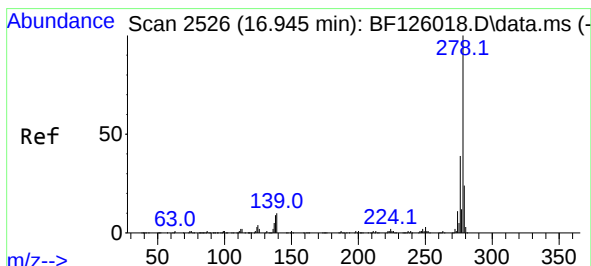
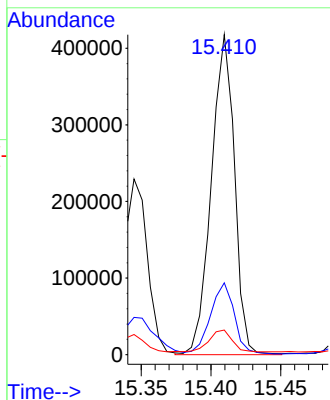
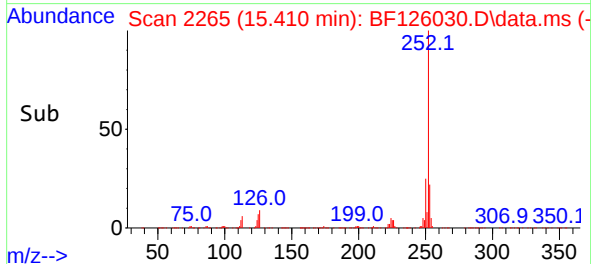
Instrument :  
BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion:252 Resp: 482784  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.4 27.6  
125 7.7 9.9 14.9

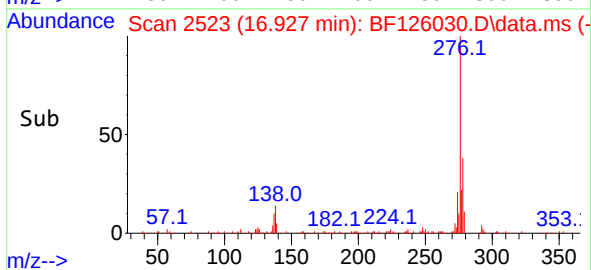
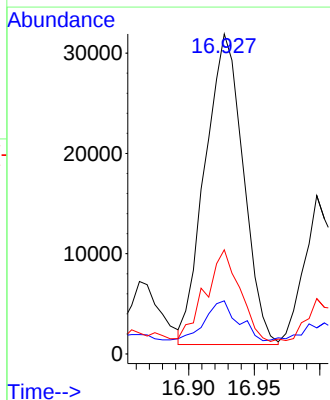
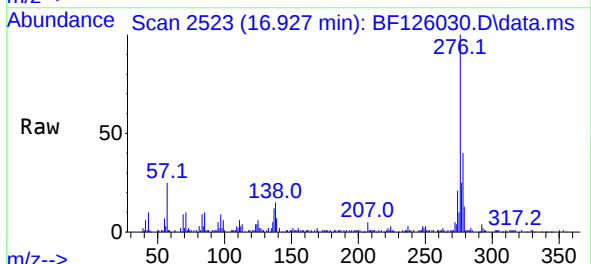
Manual Integrations  
APPROVED

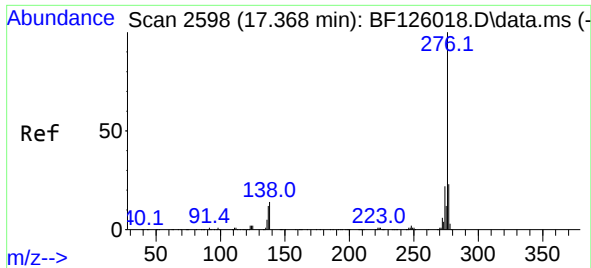
Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021



#91  
Dibenzo(a,h)anthracene  
Concen: 3.63 ng m  
RT: 16.927 min Scan# 2523  
Delta R.T. -0.018 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

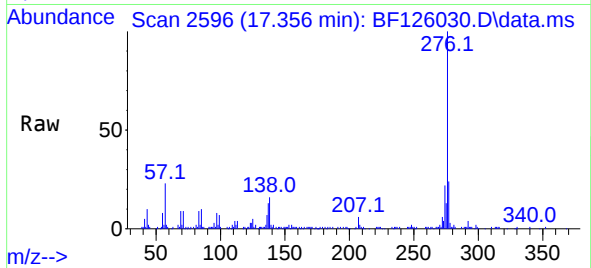
Tgt Ion:278 Resp: 62864  
Ion Ratio Lower Upper  
278 100  
139 16.6 14.9 22.3  
279 32.6 19.7 29.5





#92  
Benzo(g,h,i)perylene  
Concen: 9.71 ng  
RT: 17.356 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BF126030.D  
Acq: 3 Nov 2021 20:56

Instrument : BNA\_F  
ClientSampleId :  
FDR-BH-4-20211029-7.5-8



Tgt Ion:276 Resp: 16136  
Ion Ratio Lower Upper  
276 100  
277 23.6 22.0 33.0  
138 16.0 22.2 33.4

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 11/04/2021  
Supervised By :mohammad ahmed 11/08/2021

