

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092222\  
 Data File : BF130382.D  
 Acq On : 22 Sep 2022 18:43  
 Operator : CG\JU  
 Sample : N4752-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-07-092122

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 09/23/2022  
 Supervised By :Jagrut Upadhyay 09/23/2022

Quant Time: Sep 23 02:57:50 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 19 15:06:14 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.657  | 152  | 118831   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.940  | 136  | 429687   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.687  | 164  | 184502   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.169 | 188  | 278805   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.804 | 240  | 226142   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.198 | 264  | 171016   | 20.000 | ng    | 0.01     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.257  | 112  | 575927   | 84.063 | ng    | 0.00     |
| 7) Phenol-d6                | 6.298  | 99   | 679994   | 79.324 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.222  | 82   | 423100   | 50.305 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.475 | 330  | 132962   | 75.210 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.016  | 172  | 681359   | 53.777 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.757 | 244  | 615985   | 45.121 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.192 | 178  | 36293    | 2.319  | ng    | 97       |
| 75) Fluoranthene            | 12.375 | 202  | 107887   | 7.133  | ng    | 89       |
| 78) Pyrene                  | 12.604 | 202  | 108138   | 5.466  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.792 | 228  | 60482    | 4.020  | ng    | 97       |
| 83) Chrysene                | 13.827 | 228  | 59951m   | 4.197  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 16.515 | 276  | 27692    | 2.283  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 14.804 | 252  | 72799m   | 6.522  | ng    |          |
| 90) Benzo(a)pyrene          | 15.133 | 252  | 44819    | 5.068  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 16.921 | 276  | 28281    | 2.822  | ng    | # 90     |
| -----                       |        |      |          |        |       |          |

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

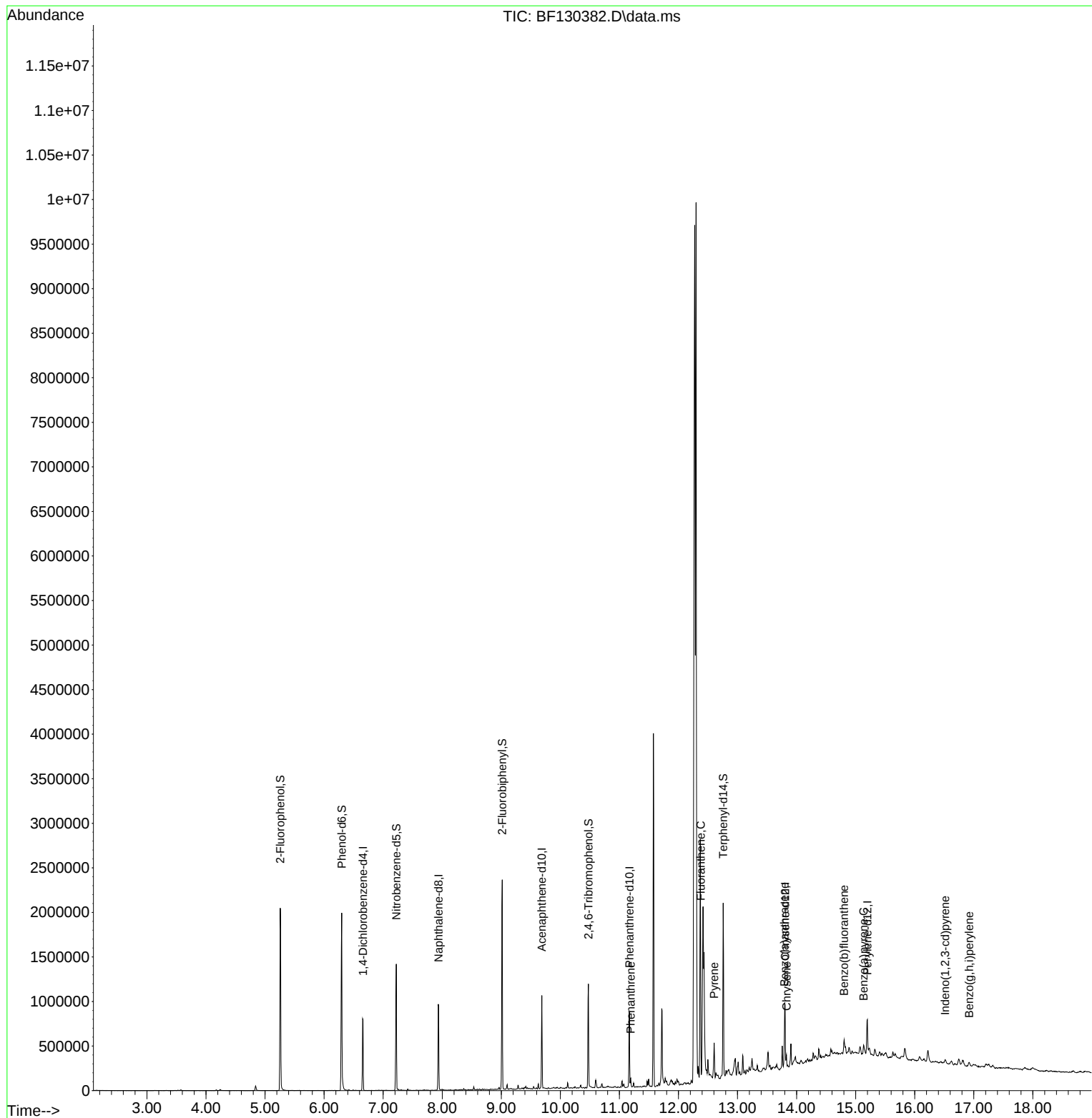
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092222\  
Data File : BF130382.D  
Acq On : 22 Sep 2022 18:43  
Operator : CG\JU  
Sample : N4752-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

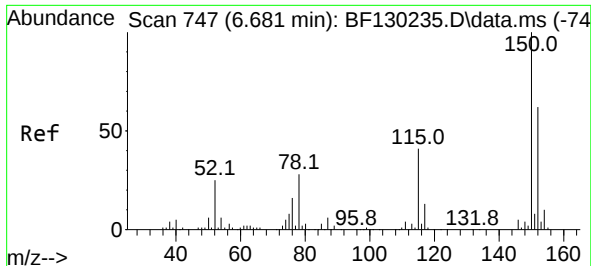
Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-092122

Quant Time: Sep 23 02:57:50 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 19 15:06:14 2022  
Response via : Initial Calibration

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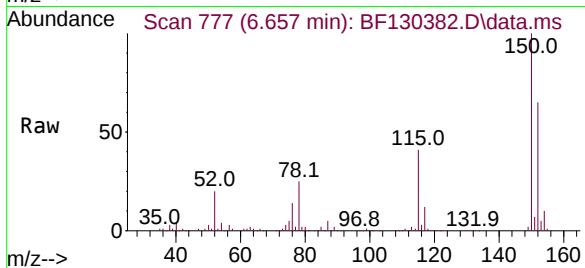
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.657 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

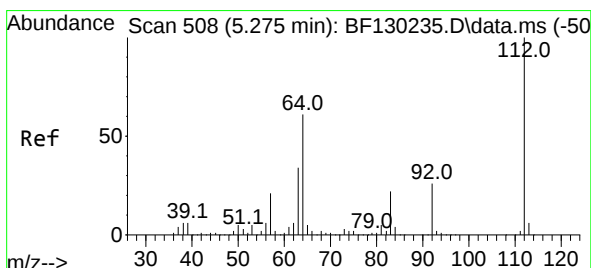
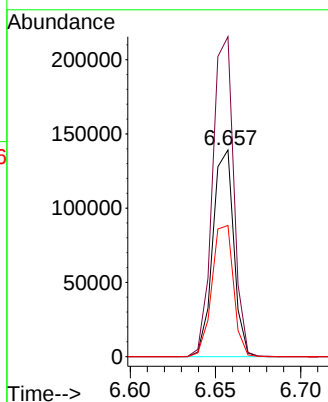
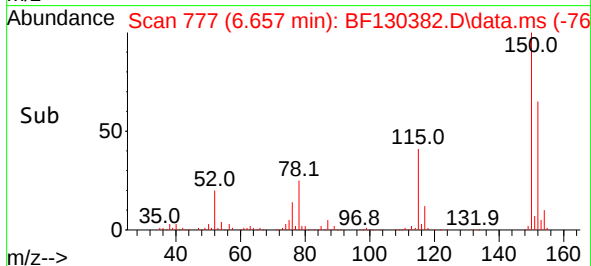
Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-092122



Tgt Ion:152 Resp: 118831  
Ion Ratio Lower Upper  
152 100  
150 154.9 122.8 184.2  
115 63.5 53.8 80.8

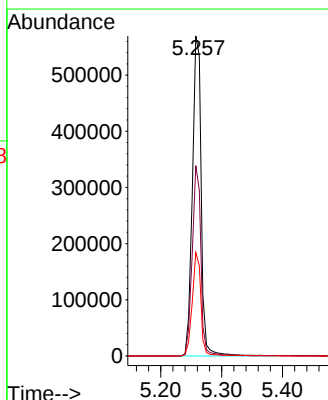
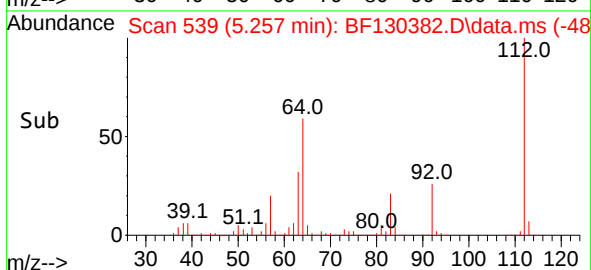
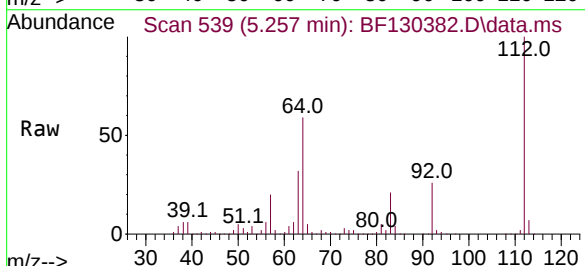
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Supervised By :Jagrut Upadhyay 09/23/2022



#5  
2-Fluorophenol  
Concen: 84.063 ng  
RT: 5.257 min Scan# 539  
Delta R.T. 0.000 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

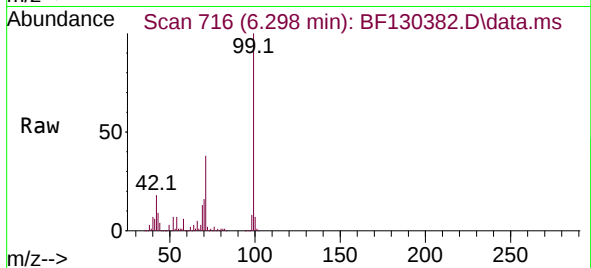
Tgt Ion:112 Resp: 575927  
Ion Ratio Lower Upper  
112 100  
64 59.5 51.4 77.0  
63 32.3 28.8 43.2





#7  
Phenol-d6  
Concen: 79.324 ng  
RT: 6.298 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

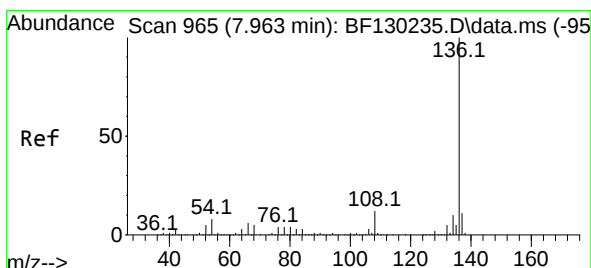
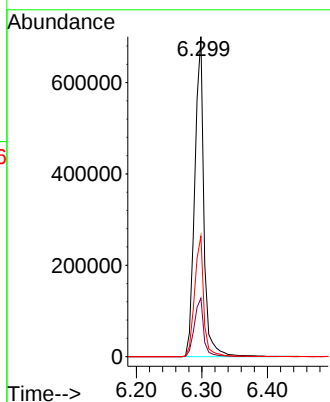
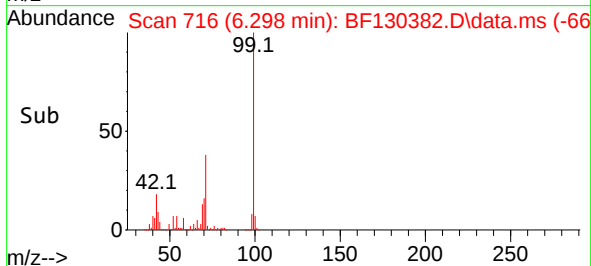
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 99 Resp: 679994  
Ion Ratio Lower Upper  
99 100  
42 18.2 17.0 25.6  
71 37.7 32.3 48.5

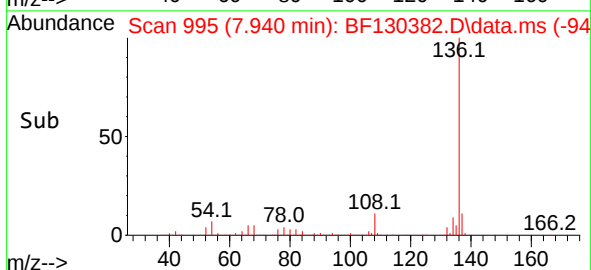
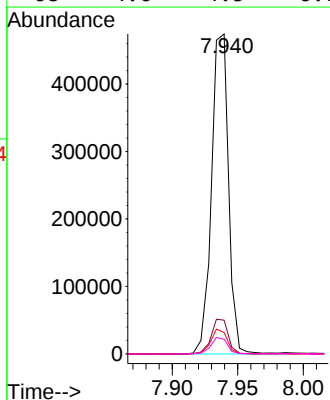
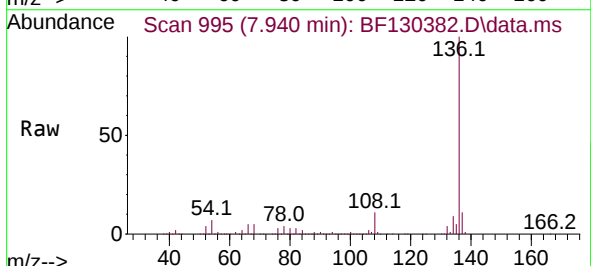
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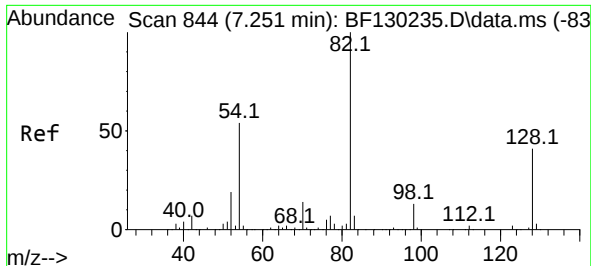
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.940 min Scan# 995  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Tgt Ion:136 Resp: 429687  
Ion Ratio Lower Upper  
136 100  
137 10.5 9.1 13.7  
54 6.7 7.1 10.7#  
68 4.6 4.5 6.7





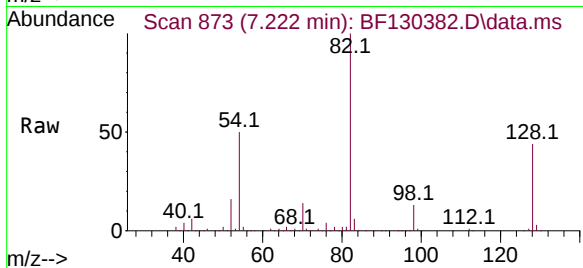
#23  
Nitrobenzene-d5  
Concen: 50.305 ng  
RT: 7.222 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Instrument :

BNA\_F

ClientSampleId :

NB-07-092122

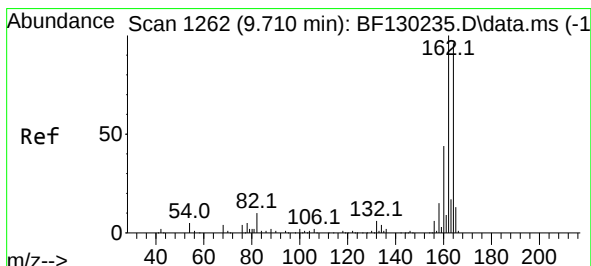
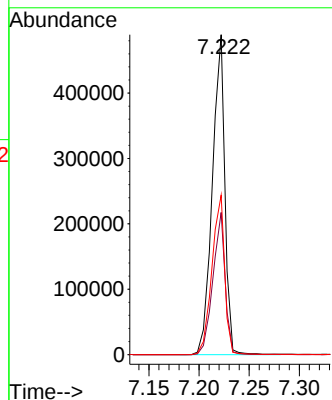
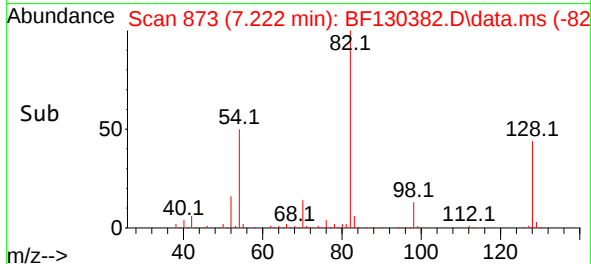


Tgt Ion: 82 Resp: 423100  
Ion Ratio Lower Upper  
82 100  
128 44.4 32.6 49.0  
54 49.8 43.8 65.6

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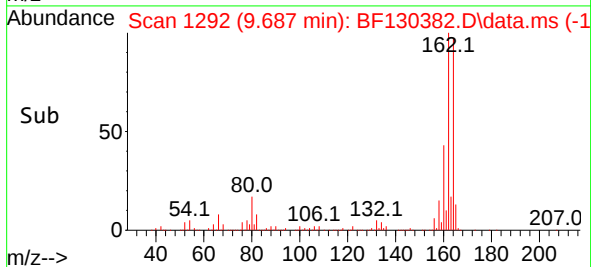
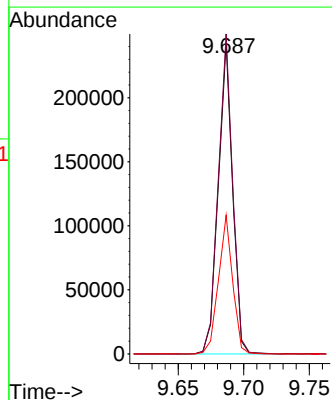
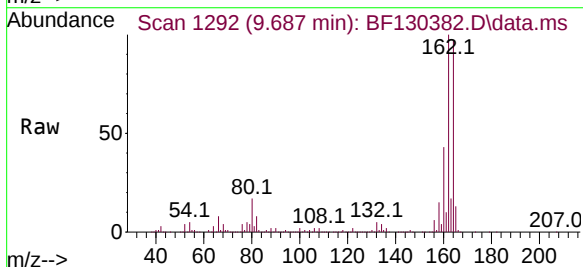
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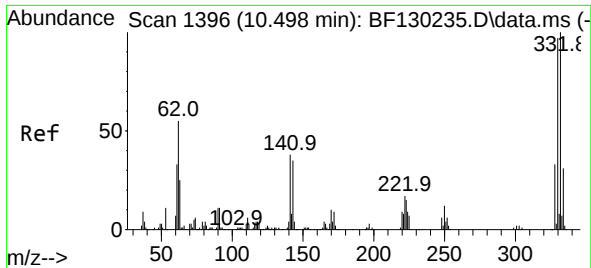
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.687 min Scan# 1292  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Tgt Ion:164 Resp: 184502  
Ion Ratio Lower Upper  
164 100  
162 102.9 81.4 122.0  
160 44.6 36.2 54.4





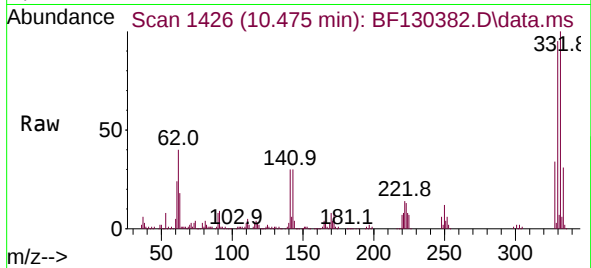
#42  
2,4,6-Tribromophenol  
Concen: 75.210 ng  
RT: 10.475 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Instrument :

BNA\_F

ClientSampleId :

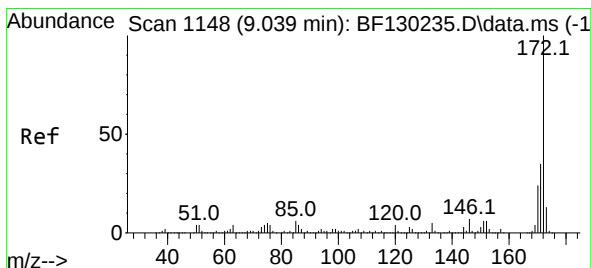
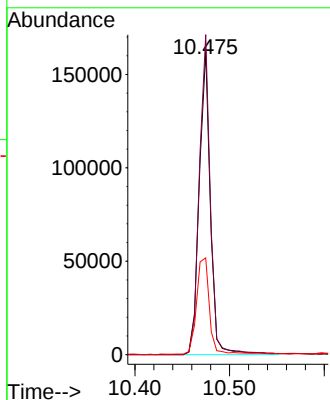
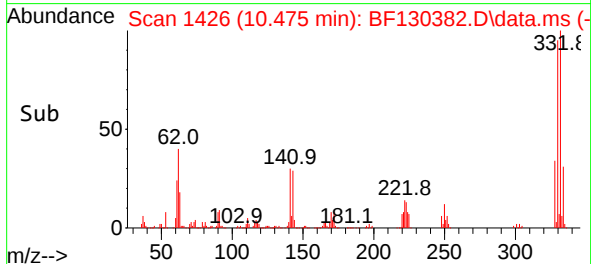
NB-07-092122



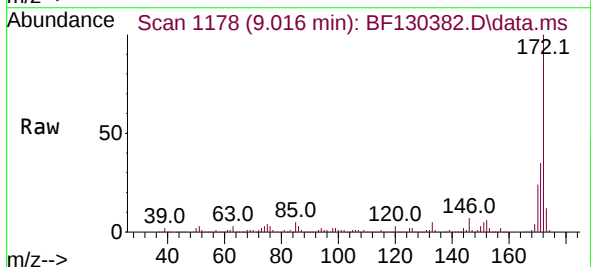
Tgt Ion: 330 Resp: 132962  
Ion Ratio Lower Upper  
330 100  
332 104.4 83.4 125.2  
141 36.5 34.0 51.0

Manual Integrations  
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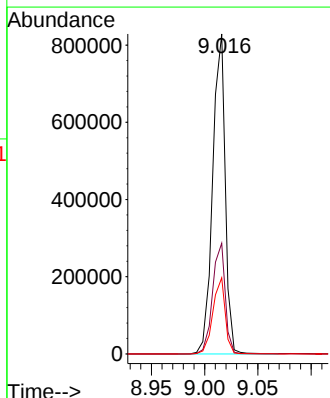
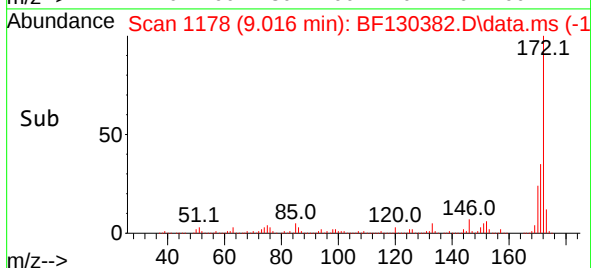
Reviewed By : Christian Giraldo 09/23/2022  
Supervised By : Jagrut Upadhyay 09/23/2022

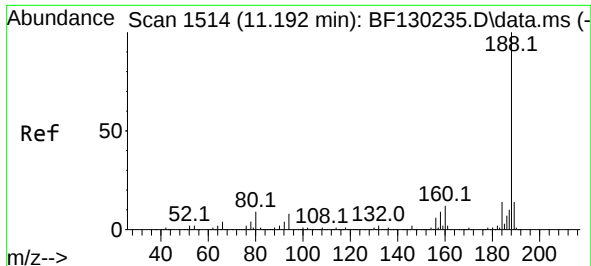


#45  
2-Fluorobiphenyl  
Concen: 53.777 ng  
RT: 9.016 min Scan# 1178  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43



Tgt Ion: 172 Resp: 681359  
Ion Ratio Lower Upper  
172 100  
171 34.6 28.3 42.5  
170 23.8 18.7 28.1





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.169 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Instrument :

BNA\_F

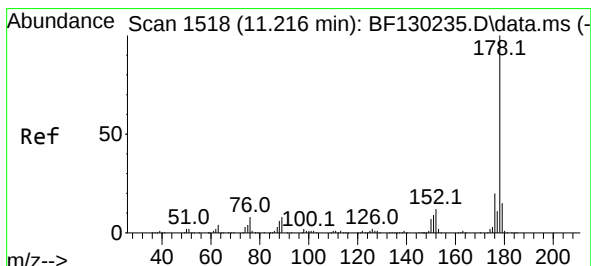
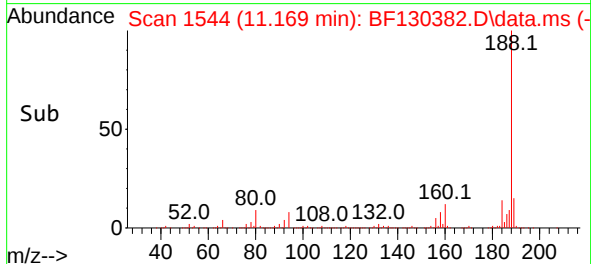
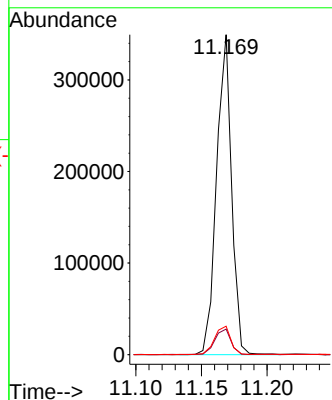
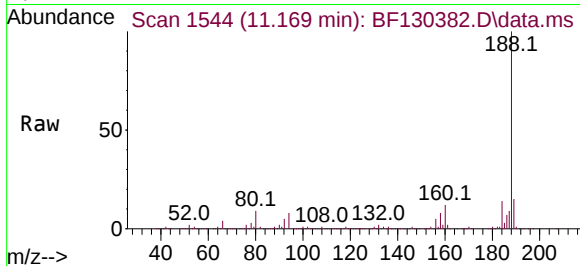
ClientSampleId :

NB-07-092122

Tgt Ion:188 Resp: 278805  
Ion Ratio Lower Upper  
188 100  
94 8.0 7.4 11.2  
80 8.9 7.9 11.9

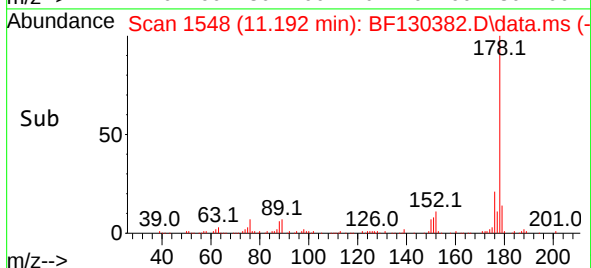
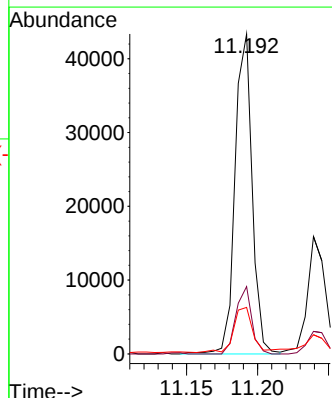
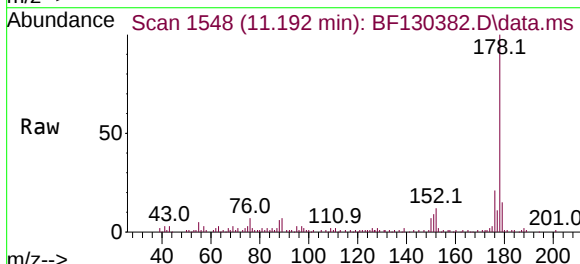
Manual Integrations  
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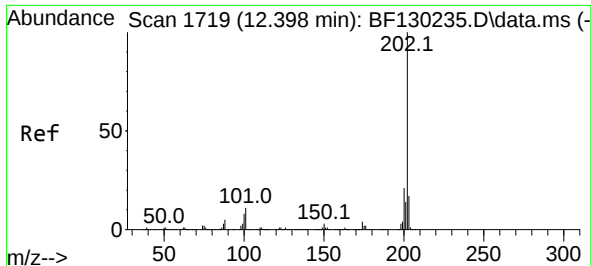
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022



#71  
Phenanthrene  
Concen: 2.319 ng  
RT: 11.192 min Scan# 1548  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

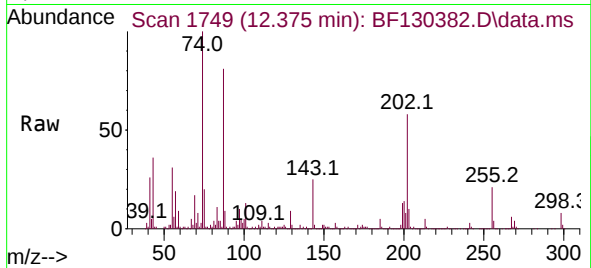
Tgt Ion:178 Resp: 36293  
Ion Ratio Lower Upper  
178 100  
176 21.0 15.4 23.0  
179 14.5 12.4 18.6





#75  
Fluoranthene  
Concen: 7.133 ng  
RT: 12.375 min Scan# 1749  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

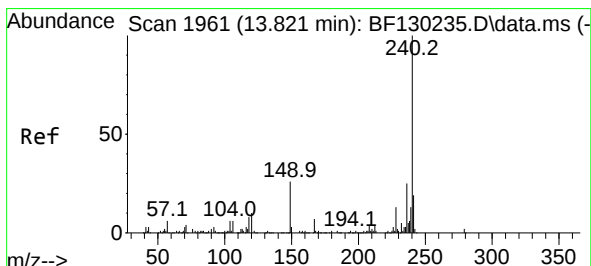
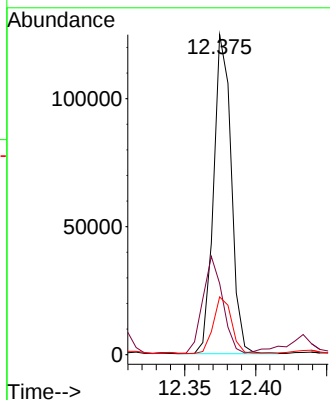
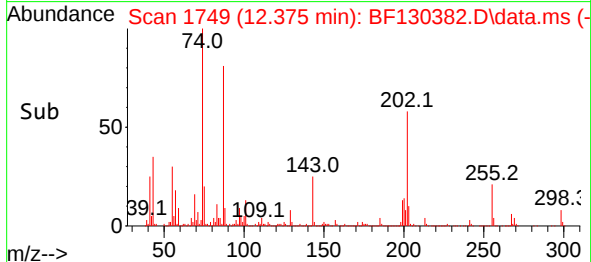
Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-092122



Tgt Ion:202 Resp: 10788  
Ion Ratio Lower Upper  
202 100  
101 22.2 0.0 31.8  
203 18.0 0.0 37.8

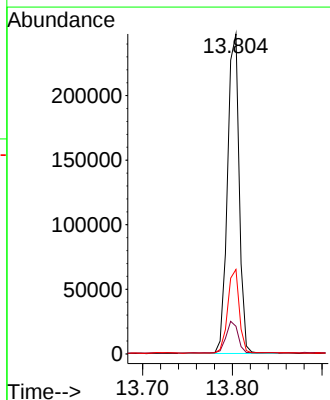
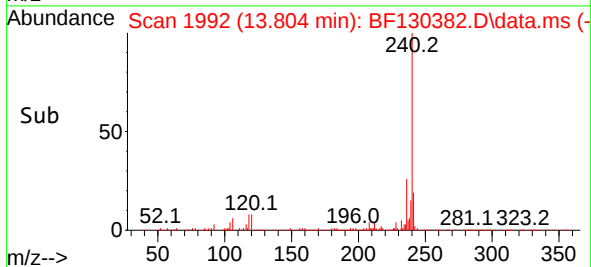
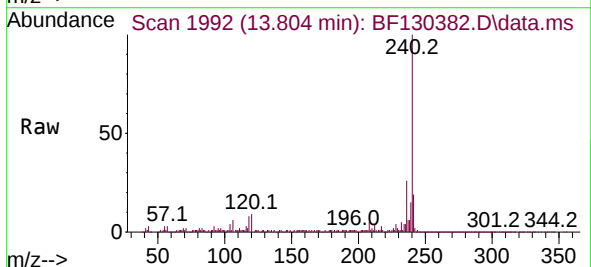
Manual Integrations  
APPROVED

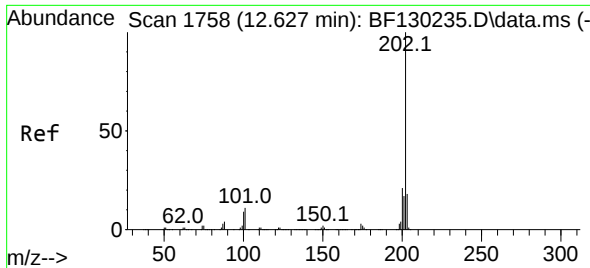
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.804 min Scan# 1992  
Delta R.T. 0.000 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

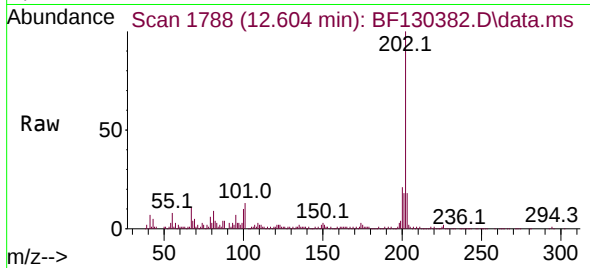
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Ion Ratio Lower Upper  
240 100  
120 8.7 8.7 13.1#  
236 26.4 20.9 31.3





#78  
Pyrene  
Concen: 5.466 ng  
RT: 12.604 min Scan# 1814  
Delta R.T. -0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

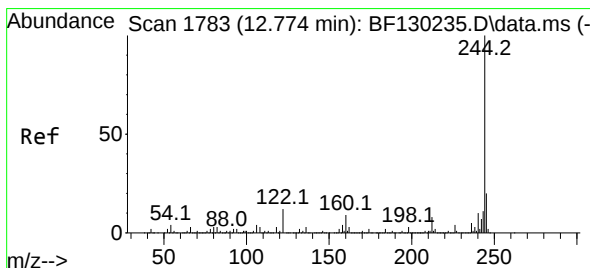
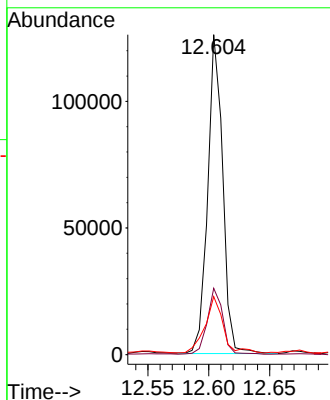
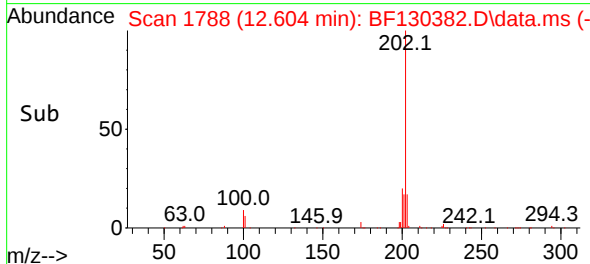
Instrument :  
BNA\_F  
ClientSampleId :  
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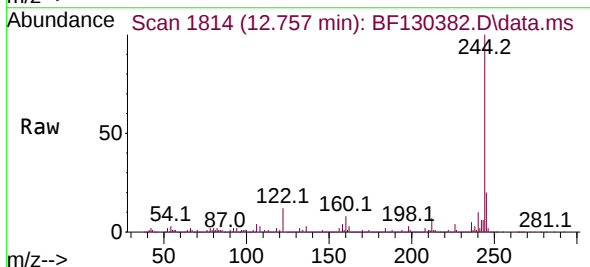
Tgt Ion:202 Resp: 108138  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.2 25.8  
203 18.1 14.3 21.5

Manual Integrations  
APPROVED

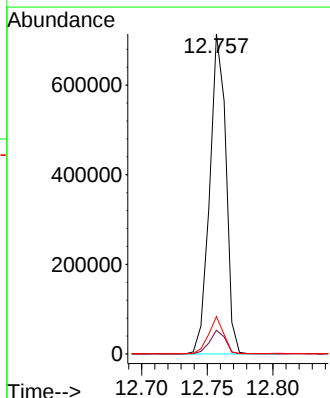
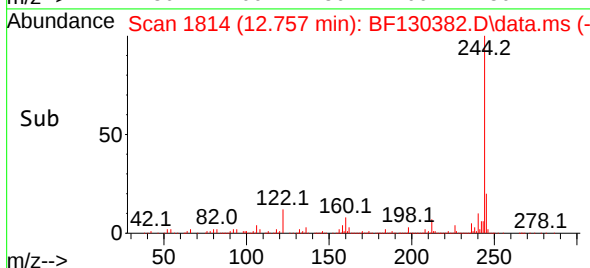
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022

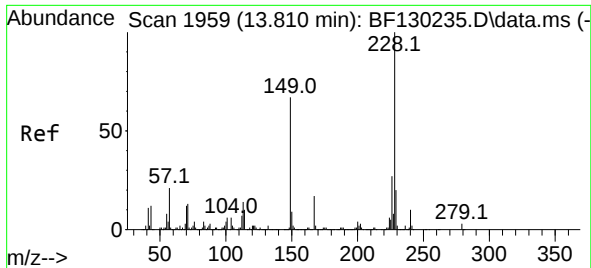


#79  
Terphenyl-d14  
Concen: 45.121 ng  
RT: 12.757 min Scan# 1814  
Delta R.T. 0.000 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43



Tgt Ion:244 Resp: 615985  
Ion Ratio Lower Upper  
244 100  
212 7.4 5.9 8.9  
122 11.7 8.5 12.7





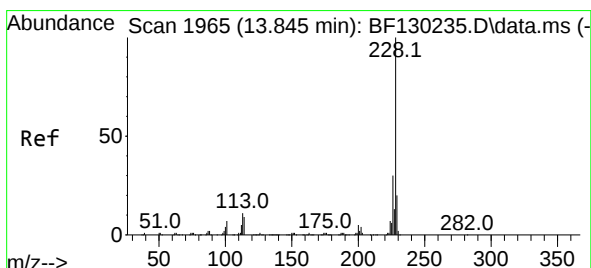
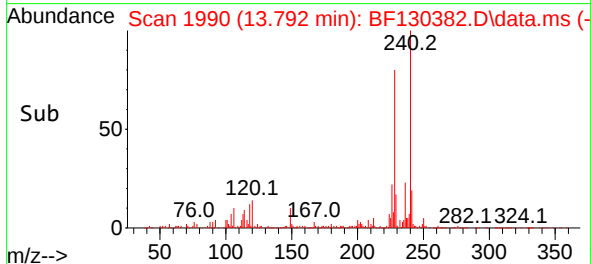
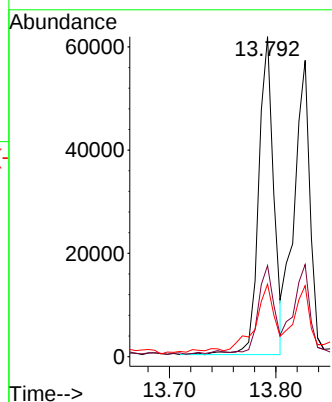
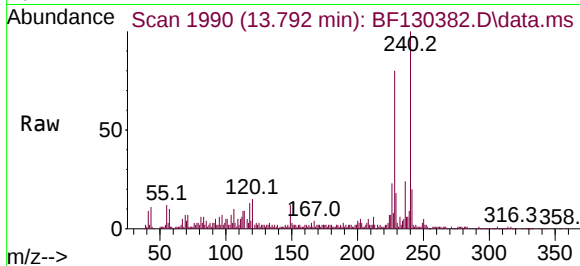
#81  
Benzo(a)anthracene  
Concen: 4.020 ng  
RT: 13.792 min Scan# 1959  
Delta R.T. 0.000 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-092122

Tgt Ion:228 Resp: 60482  
Ion Ratio Lower Upper  
228 100  
226 28.4 21.9 32.9  
229 22.6 16.1 24.1

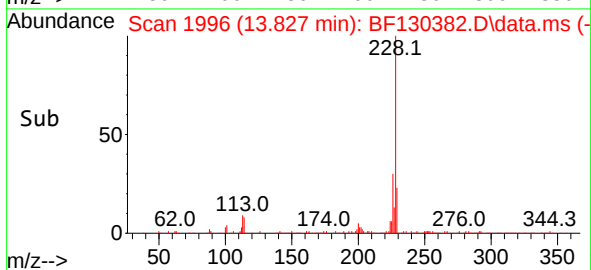
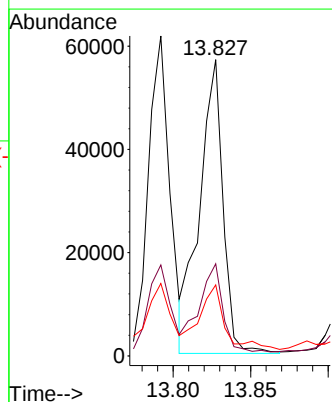
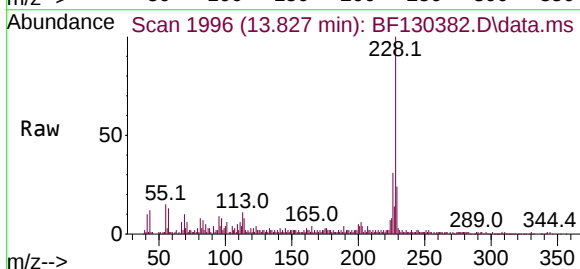
Manual Integrations  
APPROVED

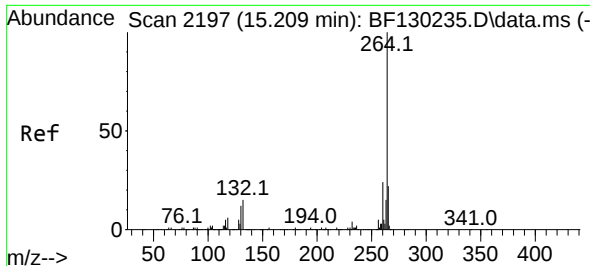
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022



#83  
Chrysene  
Concen: 4.197 ng m  
RT: 13.827 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Tgt Ion:228 Resp: 59951  
Ion Ratio Lower Upper  
228 100  
226 31.1 23.8 35.8  
229 24.0 15.3 22.9





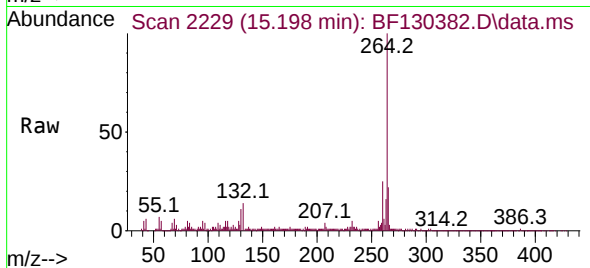
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.198 min Scan# 2197  
Delta R.T. 0.012 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Instrument :

BNA\_F

ClientSampleId :

NB-07-092122

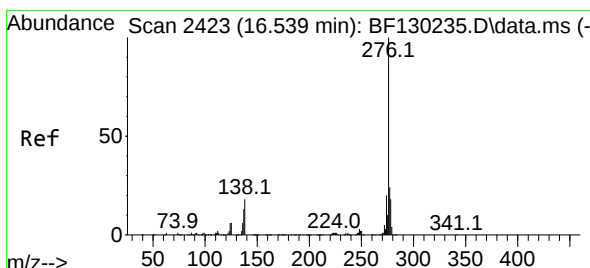
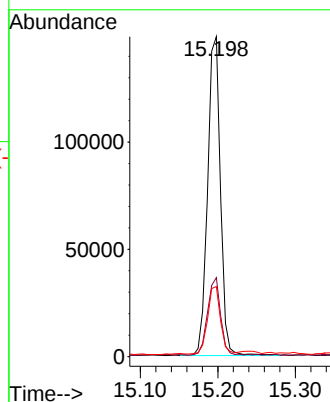
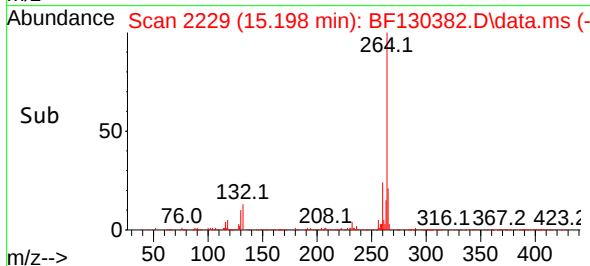


Tgt Ion:264 Resp: 171016  
Ion Ratio Lower Upper  
264 100  
260 24.7 19.3 28.9  
265 21.9 17.0 25.4

Manual Integrations

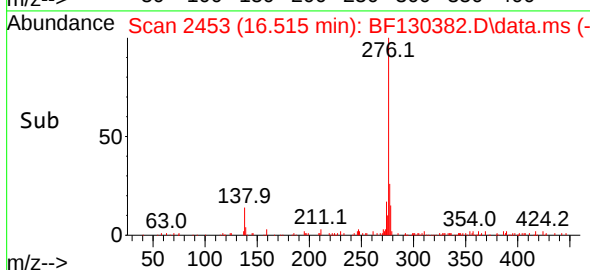
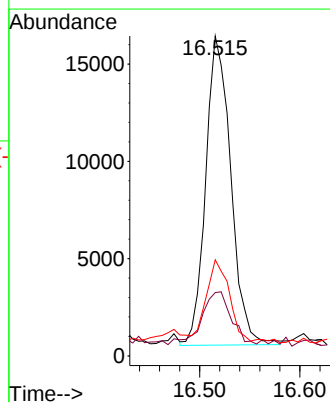
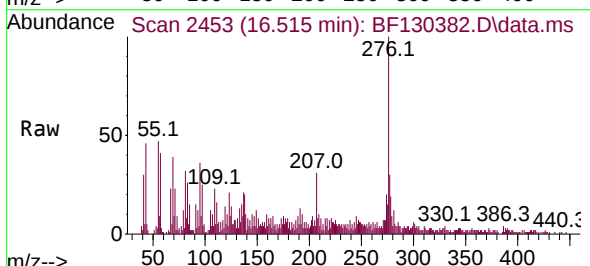
APPROVED

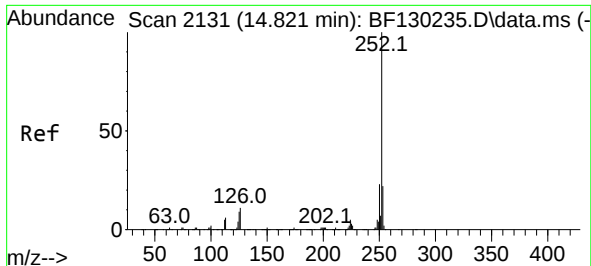
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.283 ng  
RT: 16.515 min Scan# 2453  
Delta R.T. 0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Tgt Ion:276 Resp: 27692  
Ion Ratio Lower Upper  
276 100  
138 20.0 18.5 27.7  
277 22.6 20.2 30.4





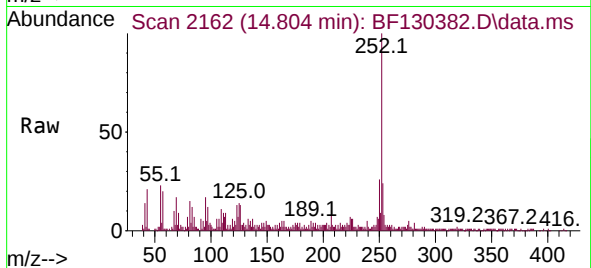
#88  
Benzo(b)fluoranthene  
Concen: 6.522 ng m  
RT: 14.804 min Scan# 2131  
Delta R.T. 0.006 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Instrument :

BNA\_F

ClientSampleId :

NB-07-092122

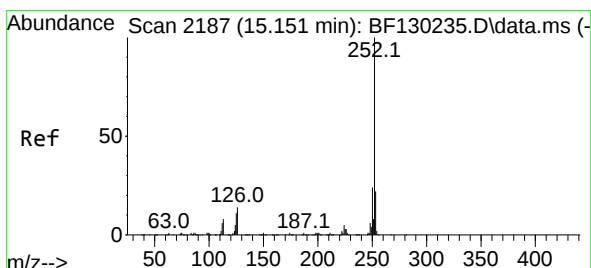
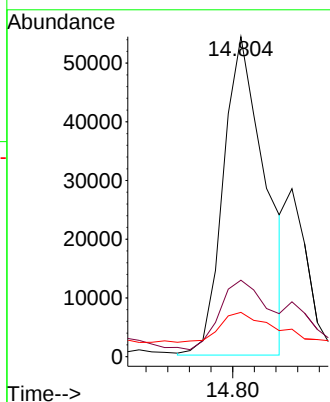
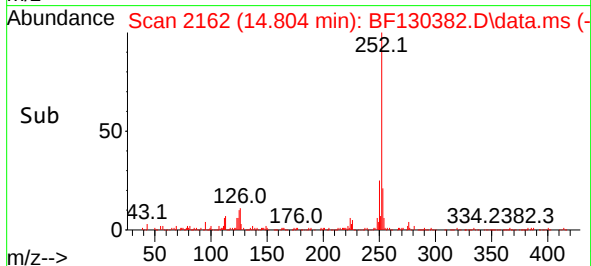


Tgt Ion:252 Resp: 72799  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.7 26.5  
125 13.8 8.1 12.1

Manual Integrations

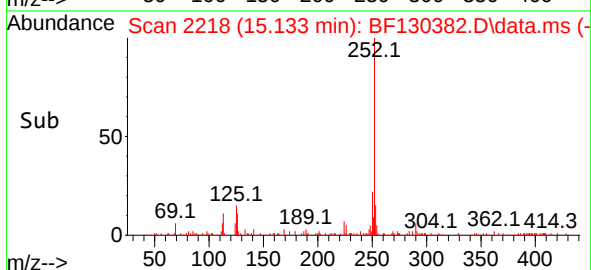
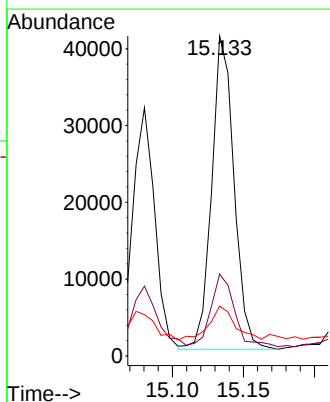
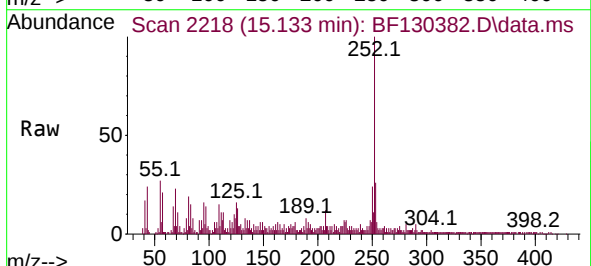
APPROVED

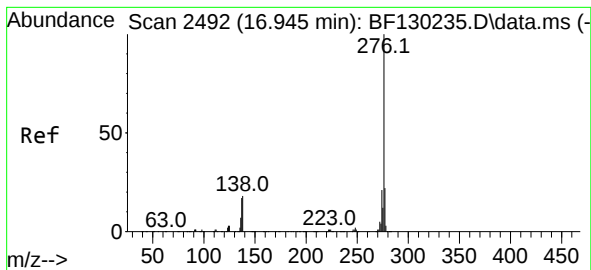
Reviewed By :Christian Giraldo 09/23/2022  
Supervised By :Jagrut Upadhyay 09/23/2022



#90  
Benzo(a)pyrene  
Concen: 5.068 ng  
RT: 15.133 min Scan# 2218  
Delta R.T. 0.000 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

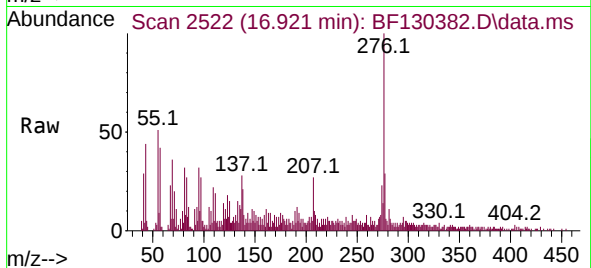
Tgt Ion:252 Resp: 44819  
Ion Ratio Lower Upper  
252 100  
253 25.6 17.8 26.6  
125 15.6 9.0 13.6





#92  
Benzo(g,h,i)perylene  
Concen: 2.822 ng  
RT: 16.921 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF130382.D  
Acq: 22 Sep 2022 18:43

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-092122



Tgt Ion: 276 Resp: 2828  
Ion Ratio Lower Upper  
276 100  
277 29.1 18.6 27.8  
138 20.9 14.6 21.8

Manual Integrations  
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Reviewed By : Christian Giraldo 09/23/2022  
Supervised By : Jagrut Upadhyay 09/23/2022

