

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092022\  
 Data File : BF130349.D  
 Acq On : 20 Sep 2022 17:49  
 Operator : CG\JU  
 Sample : N4702-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-03-091622

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/21/2022  
 Supervised By : Jagrut Upadhyay 09/21/2022

Quant Time: Sep 21 05:16:33 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  | 71303    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.939  | 136  | 236351   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.686  | 164  | 110889   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.169 | 188  | 201165   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.798 | 240  | 207605   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.192 | 264  | 180479   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.257  | 112  | 335455   | 81.600 | ng    | 0.00     |
| 7) Phenol-d6                | 6.298  | 99   | 378667   | 73.617 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.222  | 82   | 242790   | 52.480 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.475 | 330  | 99964    | 94.081 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.016  | 172  | 409221   | 53.739 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.757 | 244  | 524288   | 41.833 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.192 | 178  | 49448    | 4.378  | ng    | 97       |
| 75) Fluoranthene            | 12.374 | 202  | 98868    | 9.059  | ng    | 97       |
| 78) Pyrene                  | 12.604 | 202  | 112105   | 6.173  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.786 | 228  | 66434    | 4.810  | ng    | 94       |
| 83) Chrysene                | 13.821 | 228  | 72918    | 5.561  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.509 | 276  | 27840    | 2.175  | ng    | # 90     |
| 88) Benzo(b)fluoranthene    | 14.804 | 252  | 91276m   | 7.749  | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.827 | 252  | 42464m   | 3.665  | ng    |          |
| 90) Benzo(a)pyrene          | 15.133 | 252  | 60121    | 6.442  | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 16.909 | 276  | 28672    | 2.711  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

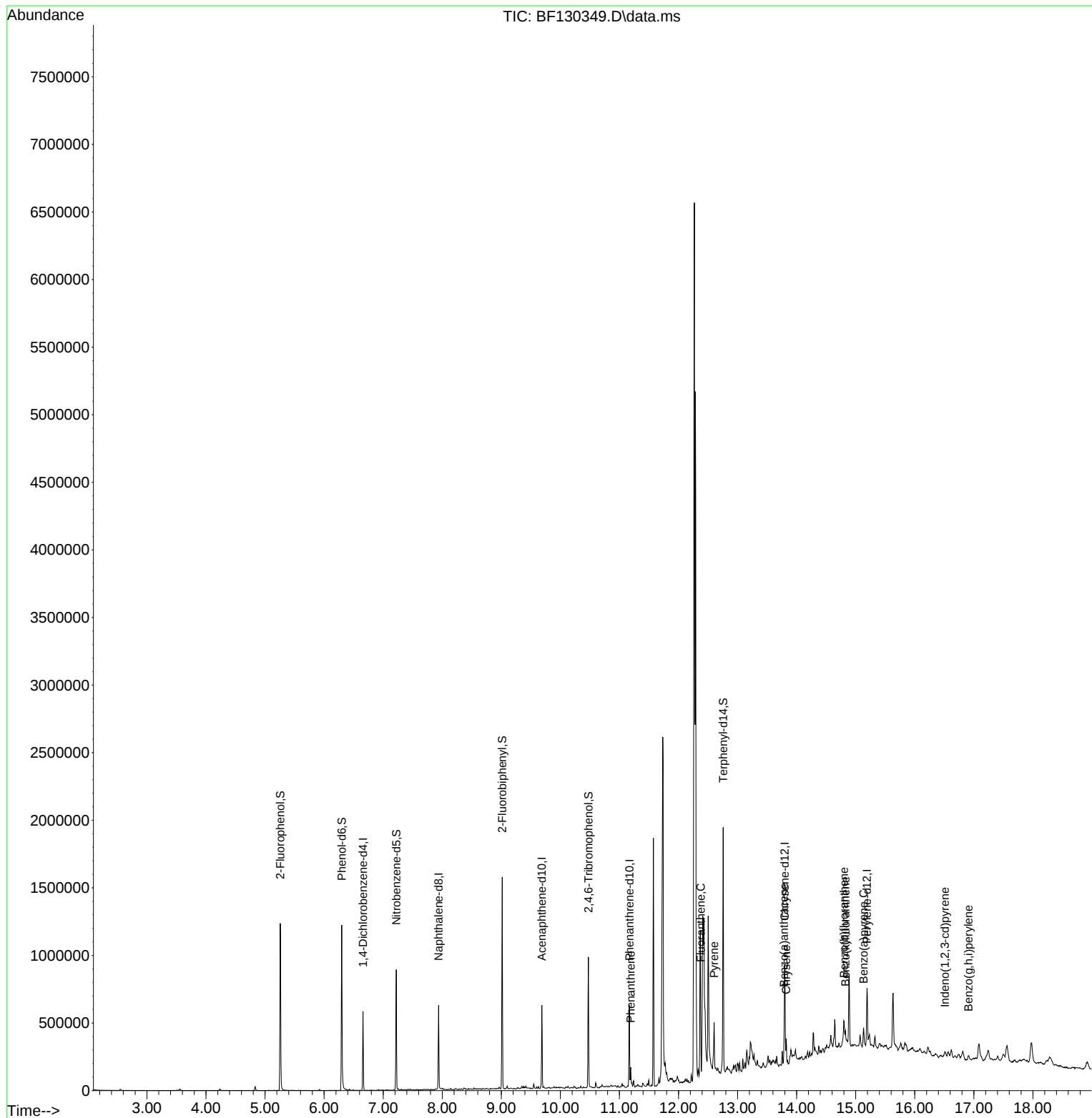
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092022\  
Data File : BF130349.D  
Acq On : 20 Sep 2022 17:49  
Operator : CG\JU  
Sample : N4702-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

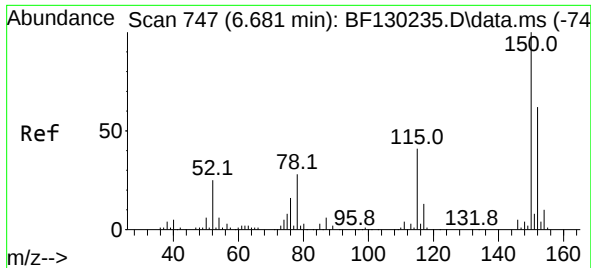
Instrument :  
BNA\_F  
ClientSampleId :  
BU-03-091622

Quant Time: Sep 21 05:16:33 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

Manual Integrations  
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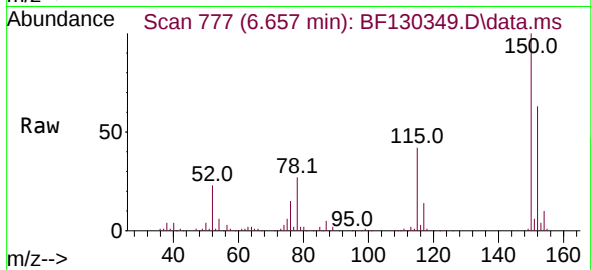
Reviewed By : Christian Giraldo 09/21/2022  
Supervised By : Jagrut Upadhyay 09/21/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.657 min Scan# 71303  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

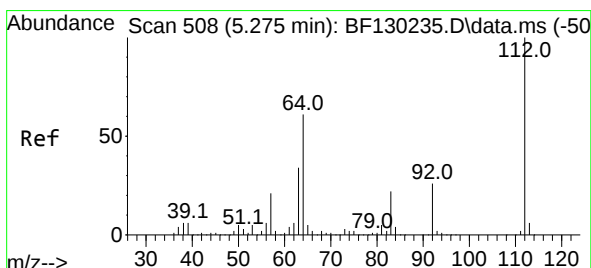
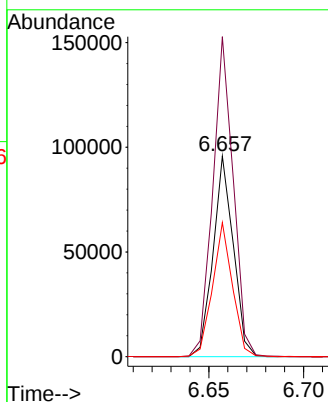
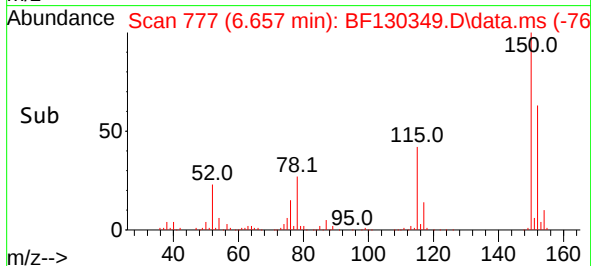
Instrument :  
BNA\_F  
ClientSampleId :  
BU-03-091622



Tgt Ion:152 Resp: 71303  
Ion Ratio Lower Upper  
152 100  
150 159.5 122.8 184.2  
115 66.8 53.8 80.8

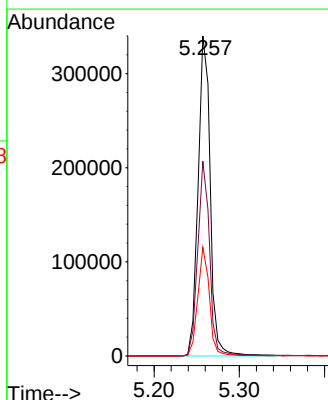
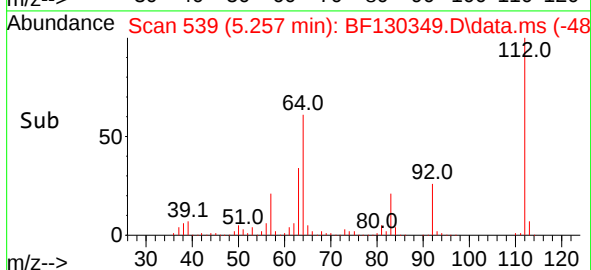
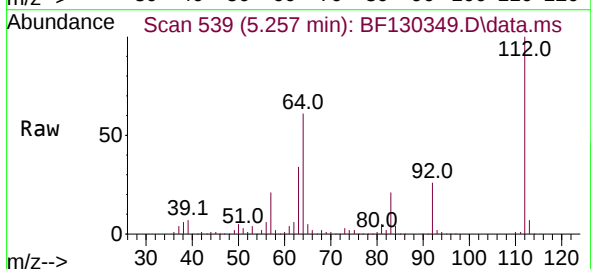
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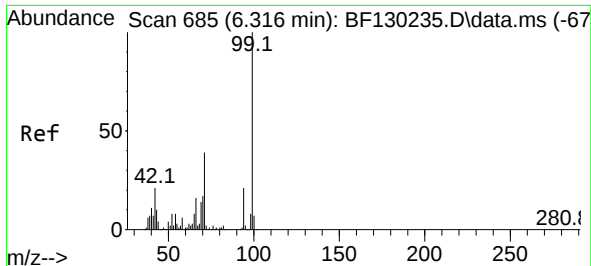
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#5  
2-Fluorophenol  
Concen: 81.600 ng  
RT: 5.257 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

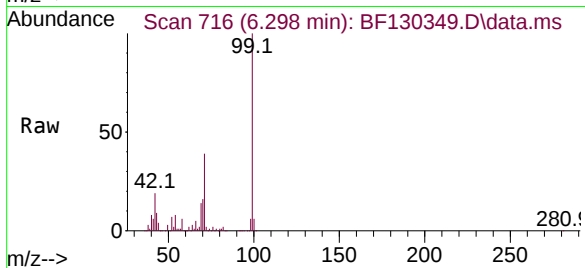
Tgt Ion:112 Resp: 335455  
Ion Ratio Lower Upper  
112 100  
64 60.8 51.4 77.0  
63 33.9 28.8 43.2





#7  
Phenol-d6  
Concen: 73.617 ng  
RT: 6.298 min Scan# 716  
Delta R.T. -0.000 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

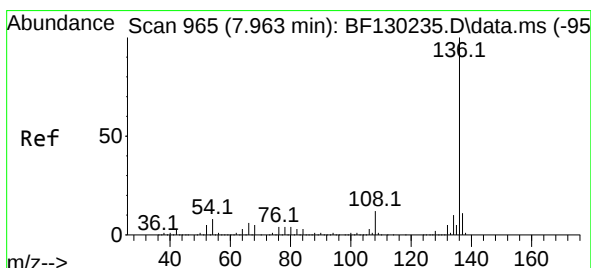
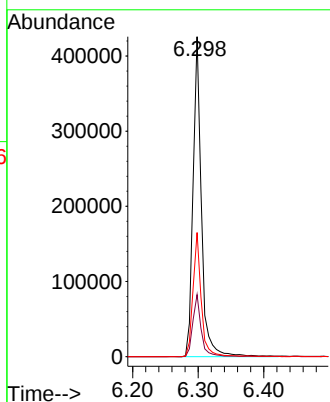
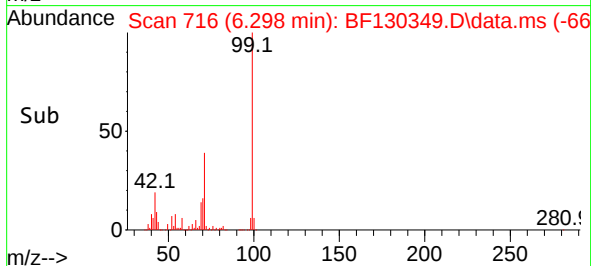
Instrument :  
BNA\_F  
ClientSampleId :  
BU-03-091622



Tgt Ion: 99 Resp: 378662  
Ion Ratio Lower Upper  
99 100  
42 19.4 17.0 25.6  
71 38.8 32.3 48.5

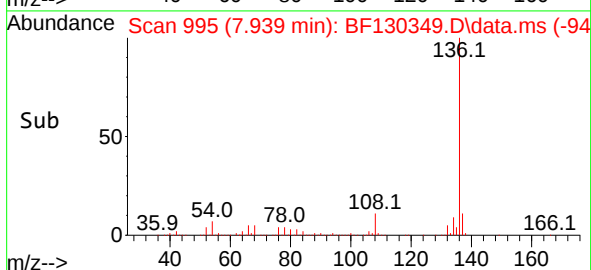
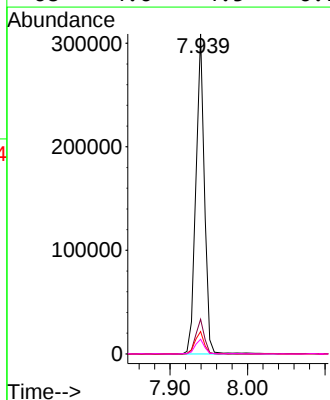
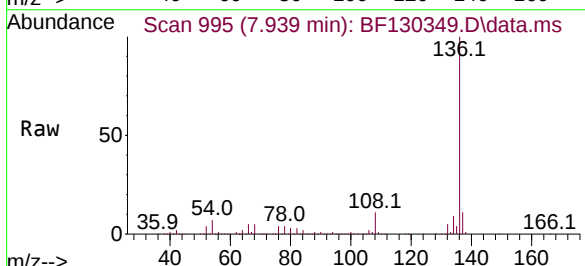
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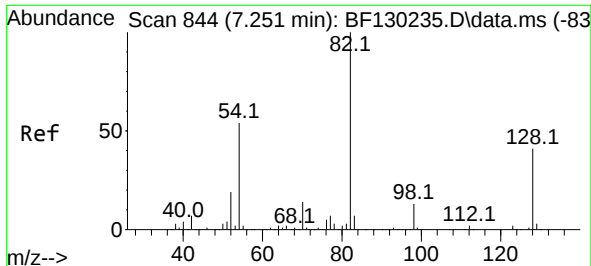
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.939 min Scan# 995  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Tgt Ion:136 Resp: 236351  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.1 13.7  
54 7.0 7.1 10.7#  
68 4.6 4.5 6.7





#23  
Nitrobenzene-d5  
Concen: 52.480 ng  
RT: 7.222 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Instrument :

BNA\_F

ClientSampleId :

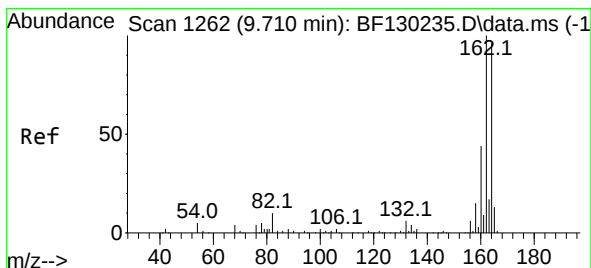
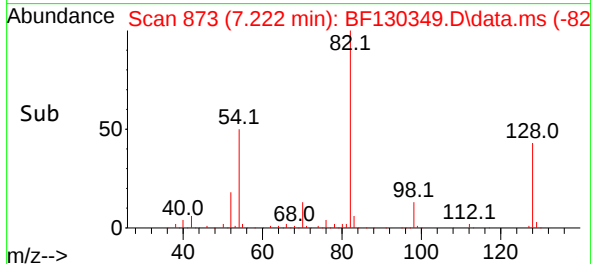
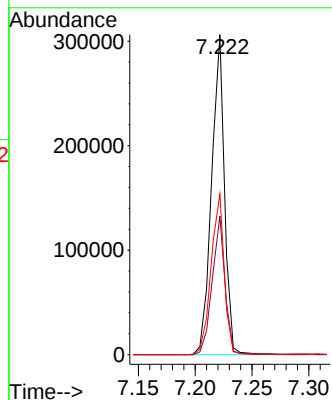
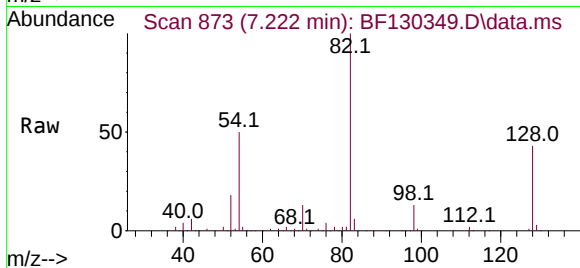
BU-03-091622

Tgt Ion: 82 Resp: 242790  
Ion Ratio Lower Upper  
82 100  
128 43.3 32.6 49.0  
54 50.2 43.8 65.6

Manual Integrations

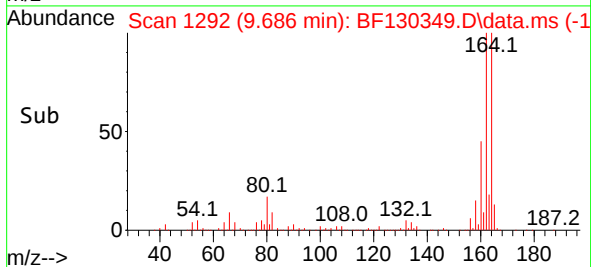
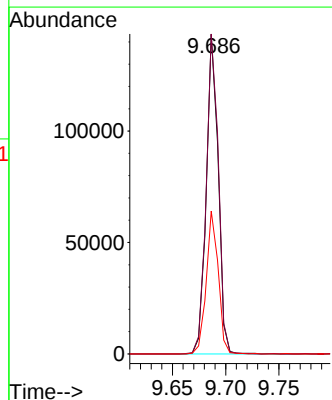
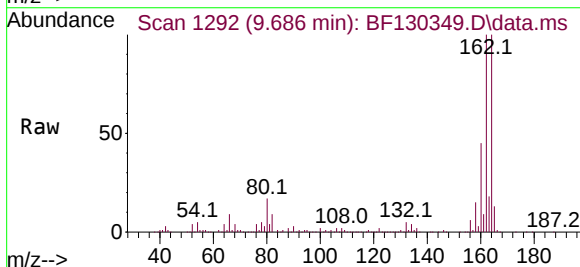
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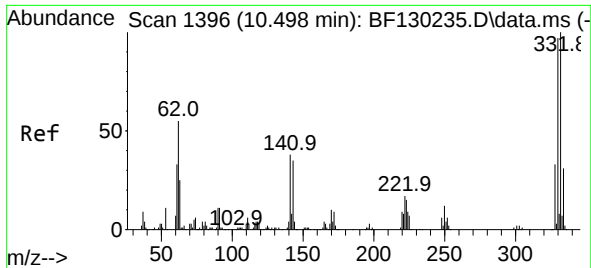
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.686 min Scan# 1292  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Tgt Ion:164 Resp: 110889  
Ion Ratio Lower Upper  
164 100  
162 100.1 81.4 122.0  
160 44.7 36.2 54.4





#42  
2,4,6-Tribromophenol  
Concen: 94.081 ng  
RT: 10.475 min Scan# 141  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Instrument :

BNA\_F

ClientSampleId :

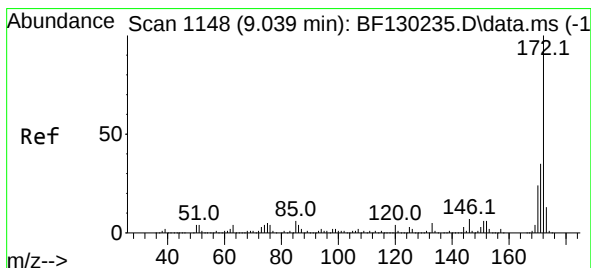
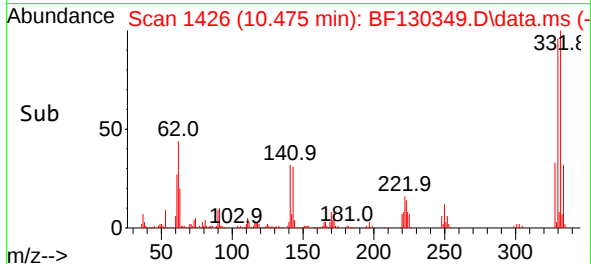
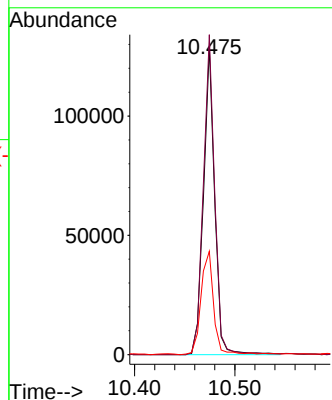
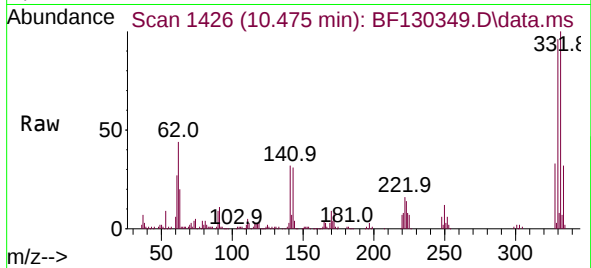
BU-03-091622

Tgt Ion:330 Resp: 99964  
Ion Ratio Lower Upper  
330 100  
332 105.2 83.4 125.2  
141 38.9 34.0 51.0

Manual Integrations

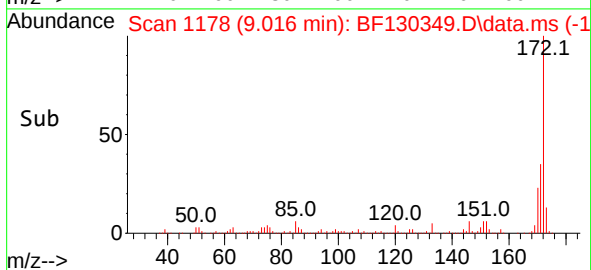
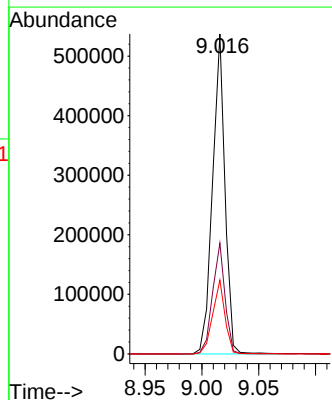
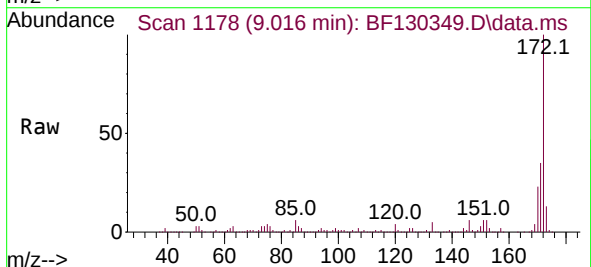
APPROVED

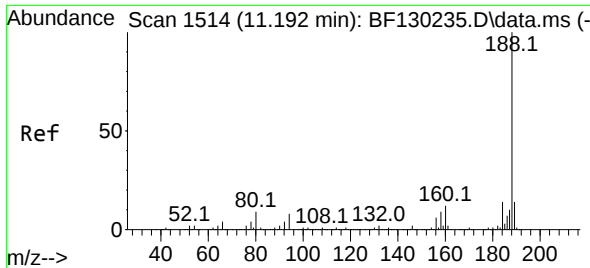
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#45  
2-Fluorobiphenyl  
Concen: 53.739 ng  
RT: 9.016 min Scan# 1178  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Tgt Ion:172 Resp: 409221  
Ion Ratio Lower Upper  
172 100  
171 34.6 28.3 42.5  
170 23.1 18.7 28.1





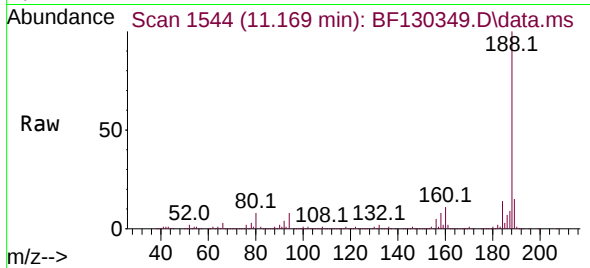
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.169 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Instrument :

BNA\_F

ClientSampleId :

BU-03-091622

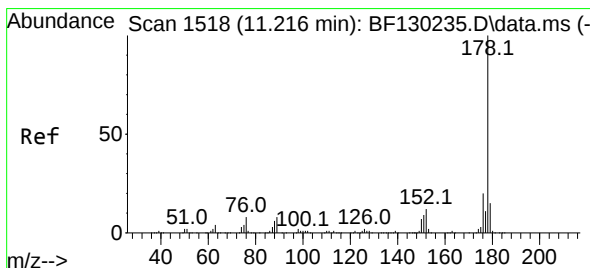
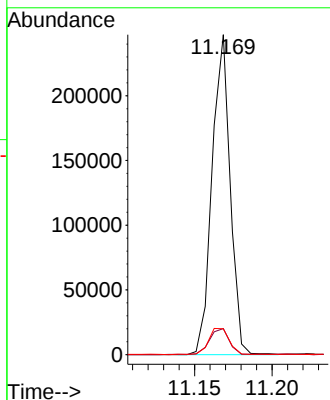
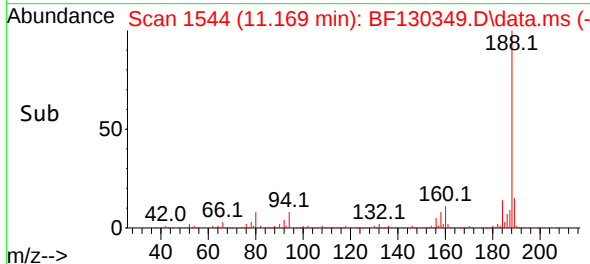


Tgt Ion:188 Resp: 201165  
Ion Ratio Lower Upper  
188 100  
94 8.1 7.4 11.2  
80 8.1 7.9 11.9

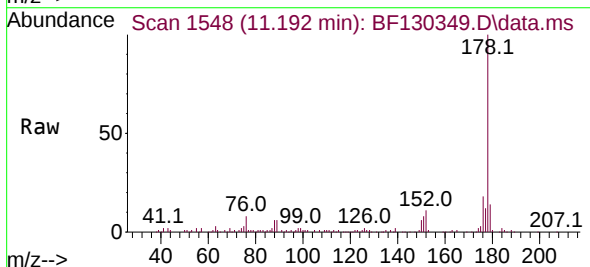
Manual Integrations

APPROVED

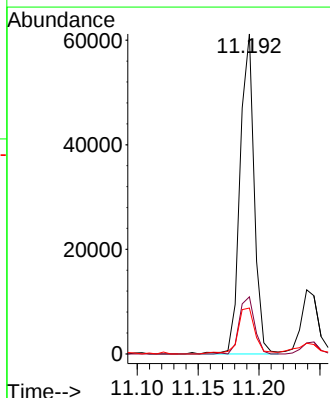
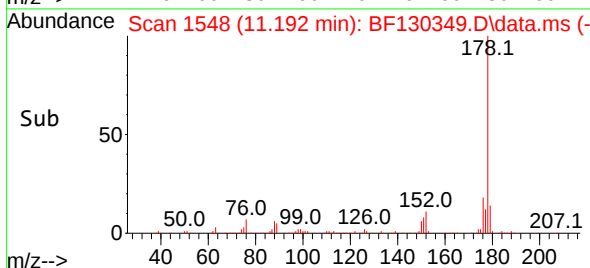
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022

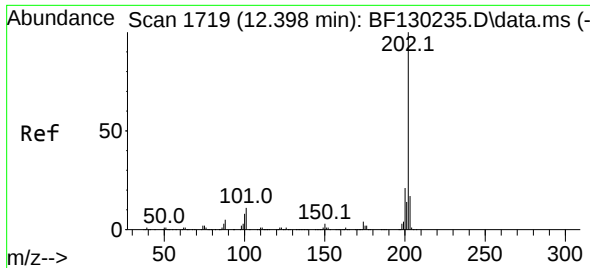


#71  
Phenanthrene  
Concen: 4.378 ng  
RT: 11.192 min Scan# 1548  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49



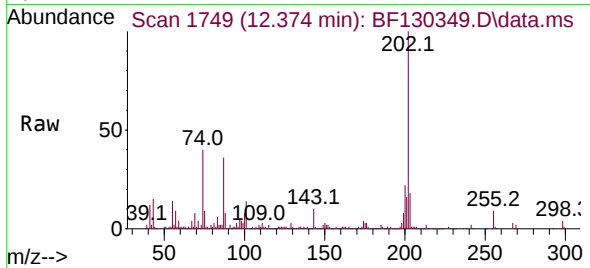
Tgt Ion:178 Resp: 49448  
Ion Ratio Lower Upper  
178 100  
176 17.8 15.4 23.0  
179 14.3 12.4 18.6





#75  
Fluoranthene  
Concen: 9.059 ng  
RT: 12.374 min Scan# 1719  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

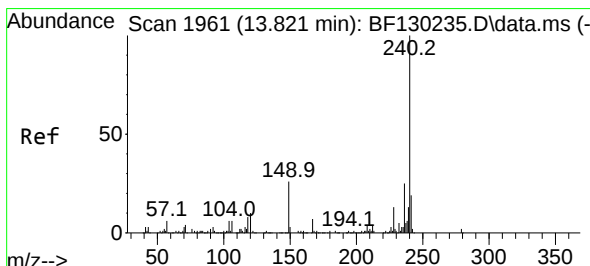
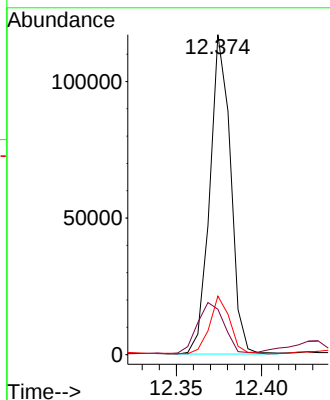
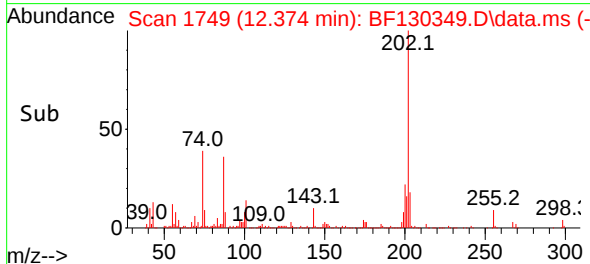
Instrument :  
BNA\_F  
ClientSampleId :  
BU-03-091622



Tgt Ion:202 Resp: 98868  
Ion Ratio Lower Upper  
202 100  
101 14.2 0.0 31.8  
203 18.3 0.0 37.8

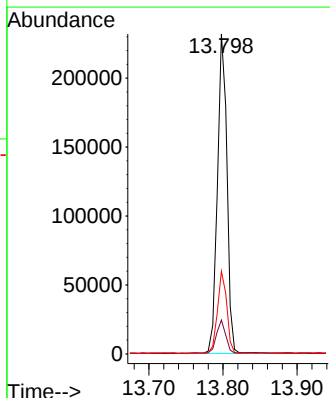
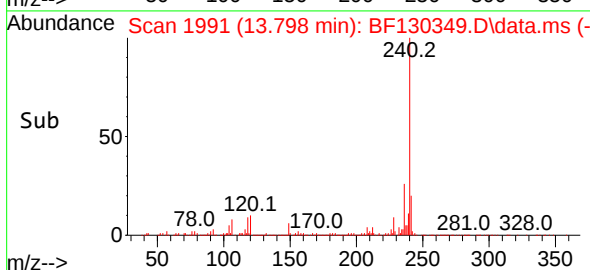
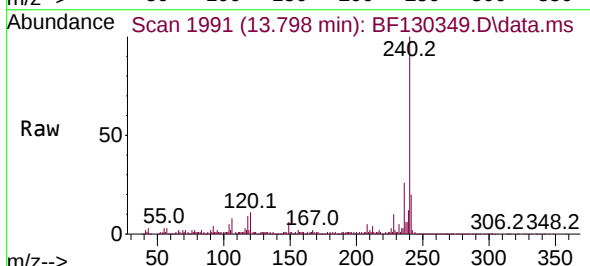
Manual Integrations  
APPROVED

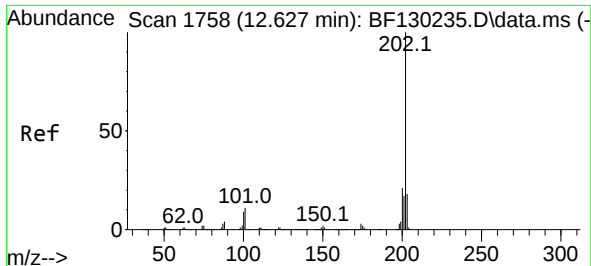
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.798 min Scan# 1991  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

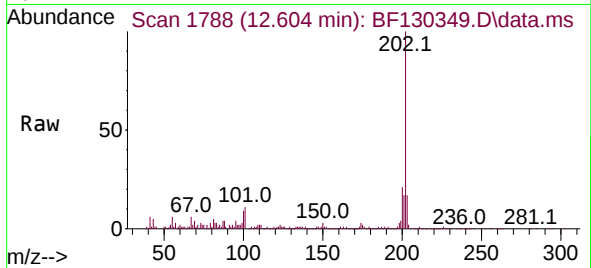
Tgt Ion:240 Resp: 207605  
Ion Ratio Lower Upper  
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120 10.6 8.7 13.1  
236 25.9 20.9 31.3





#78  
Pyrene  
Concen: 6.173 ng  
RT: 12.604 min Scan# 1111  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

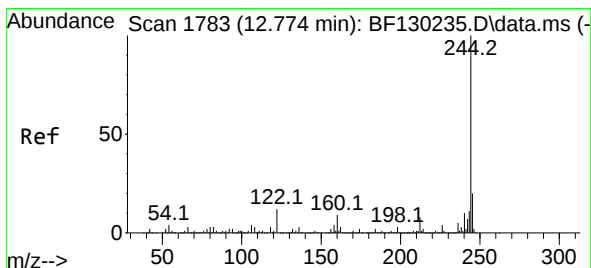
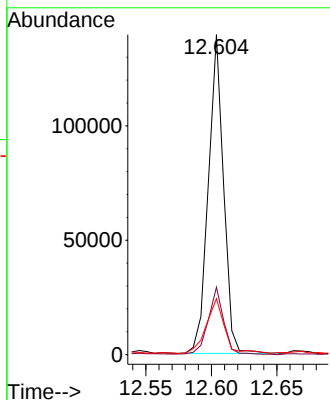
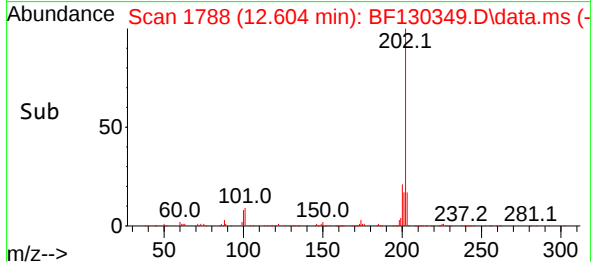
Instrument :  
BNA\_F  
ClientSampleId :  
BU-03-091622



Tgt Ion:202 Resp: 112105  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.2 25.8  
203 17.5 14.3 21.5

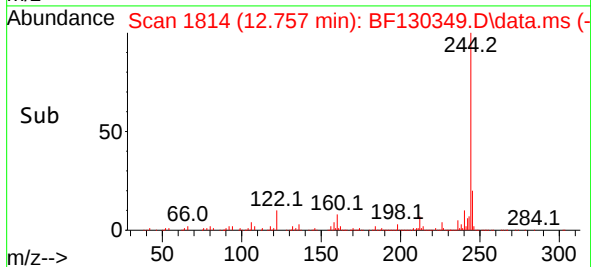
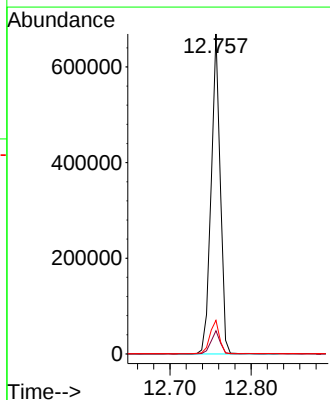
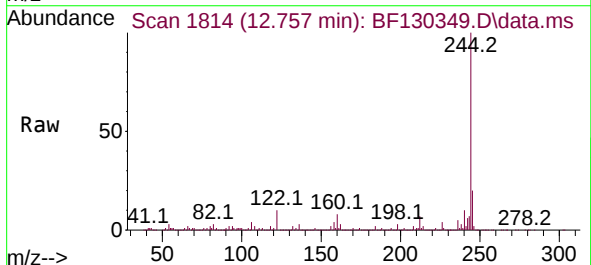
Manual Integrations  
APPROVED

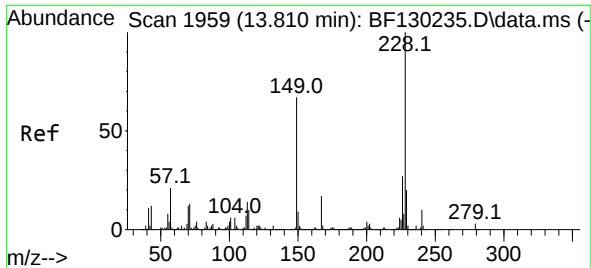
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#79  
Terphenyl-d14  
Concen: 41.833 ng  
RT: 12.757 min Scan# 1814  
Delta R.T. -0.000 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Tgt Ion:244 Resp: 524288  
Ion Ratio Lower Upper  
244 100  
212 7.2 5.9 8.9  
122 10.5 8.5 12.7





#81  
Benzo(a)anthracene  
Concen: 4.810 ng  
RT: 13.786 min Scan# 1959  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Instrument :

BNA\_F

ClientSampleId :

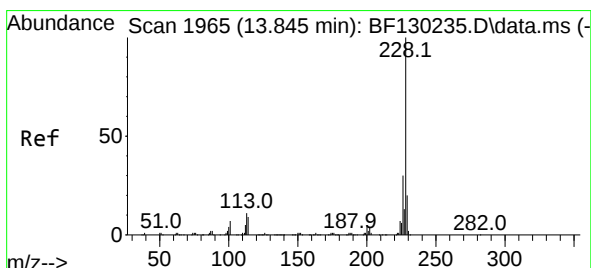
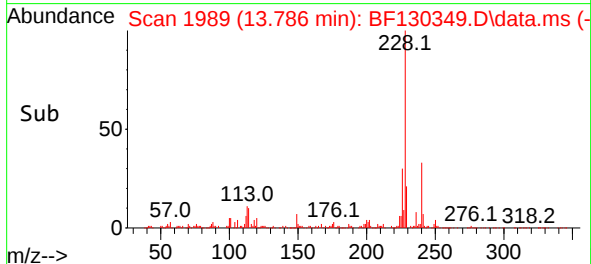
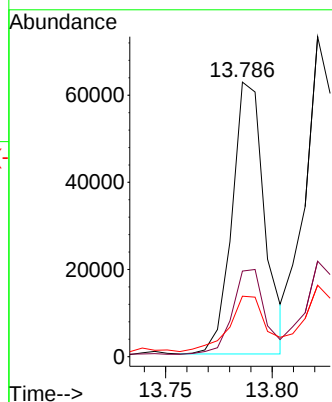
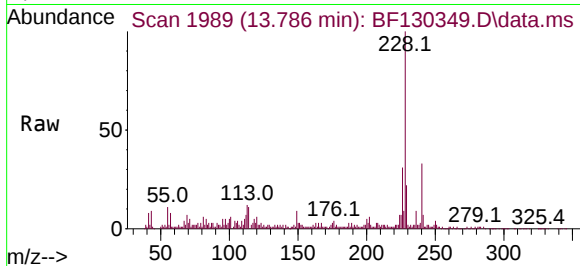
BU-03-091622

Tgt Ion:228 Resp: 66434  
Ion Ratio Lower Upper  
228 100  
226 31.1 21.9 32.9  
229 22.0 16.1 24.1

Manual Integrations

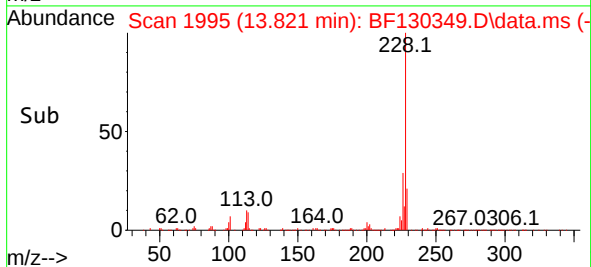
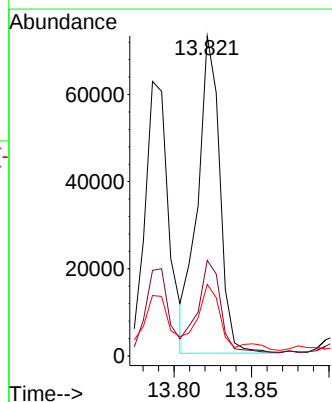
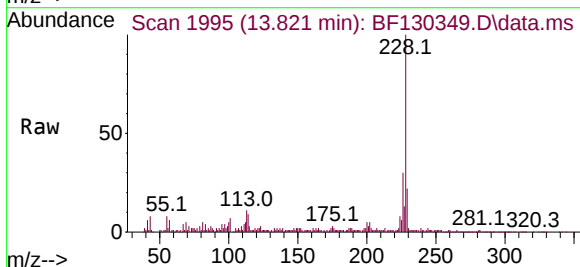
APPROVED

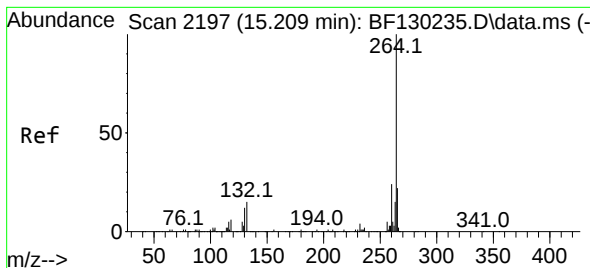
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#83  
Chrysene  
Concen: 5.561 ng  
RT: 13.821 min Scan# 1995  
Delta R.T. -0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

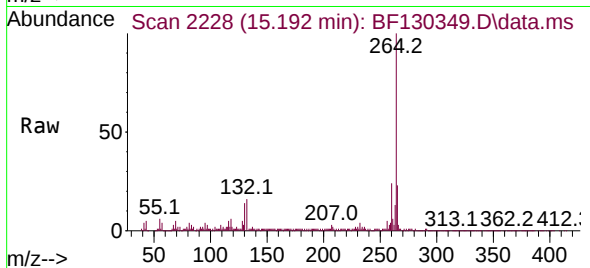
Tgt Ion:228 Resp: 72918  
Ion Ratio Lower Upper  
228 100  
226 29.8 23.8 35.8  
229 22.3 15.3 22.9





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.192 min Scan# 2197  
Delta R.T. 0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

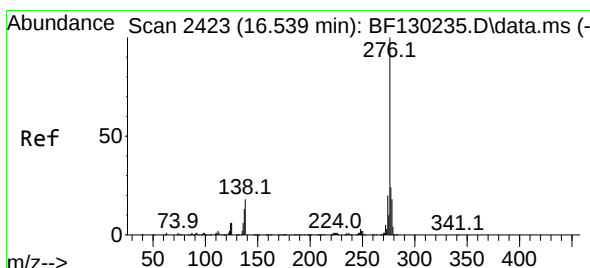
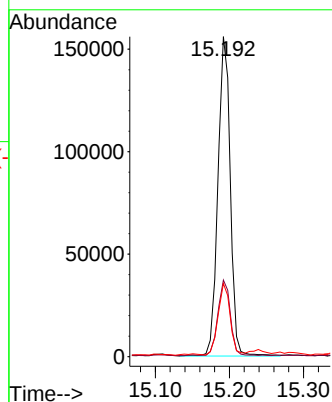
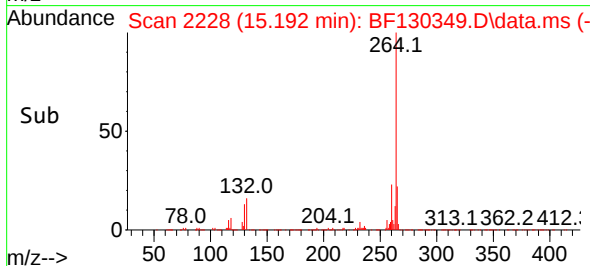
Instrument :  
BNA\_F  
ClientSampleId :  
BU-03-091622



Tgt Ion:264 Resp: 180479  
Ion Ratio Lower Upper  
264 100  
260 23.9 19.3 28.9  
265 22.8 17.0 25.4

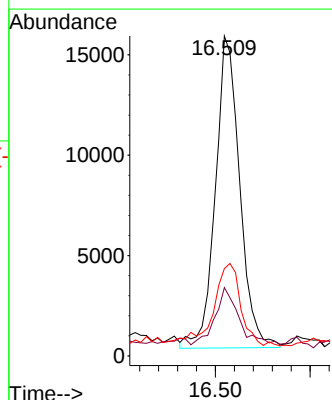
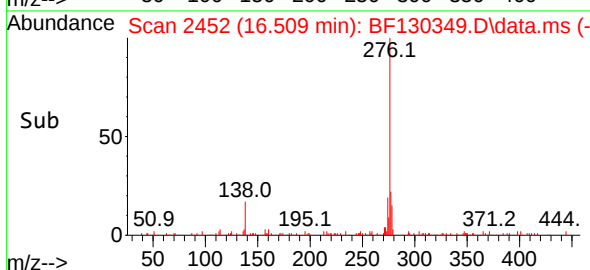
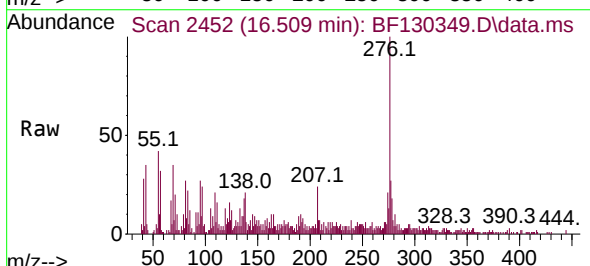
Manual Integrations  
APPROVED

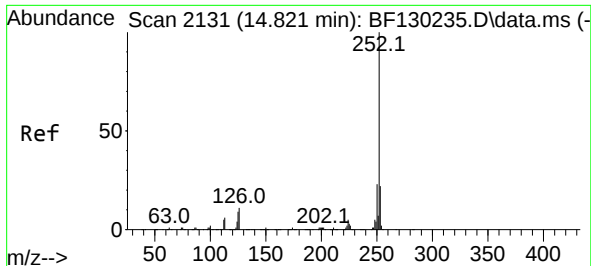
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.175 ng  
RT: 16.509 min Scan# 2452  
Delta R.T. -0.000 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

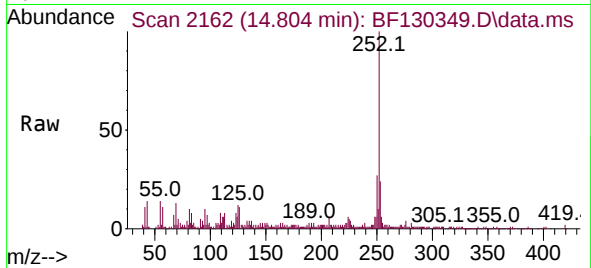
Tgt Ion:276 Resp: 27840  
Ion Ratio Lower Upper  
276 100  
138 17.6 18.5 27.7#  
277 30.1 20.2 30.4





#88  
Benzo(b)fluoranthene  
Concen: 7.749 ng m  
RT: 14.804 min Scan# 2131  
Delta R.T. 0.006 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

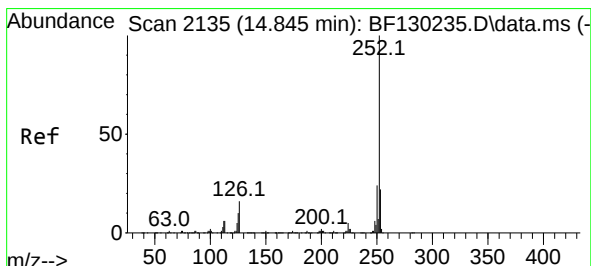
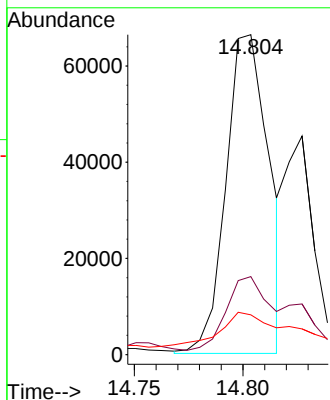
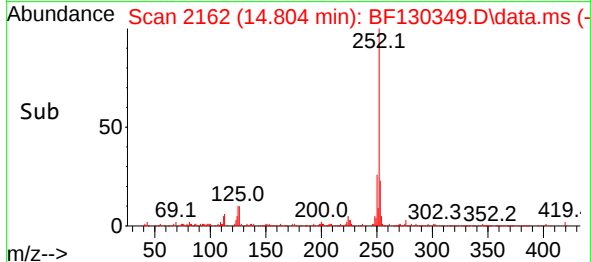
Instrument :  
BNA\_F  
ClientSampleId :  
BU-03-091622



Tgt Ion:252 Resp: 91276  
Ion Ratio Lower Upper  
252 100  
253 24.4 17.7 26.5  
125 12.4 8.1 12.1

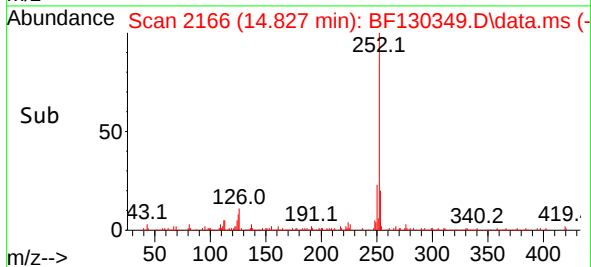
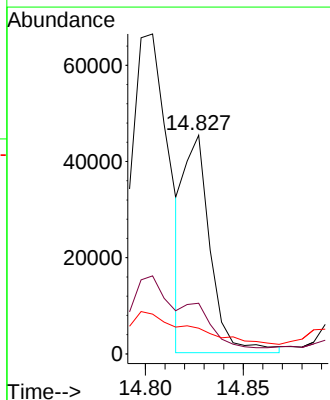
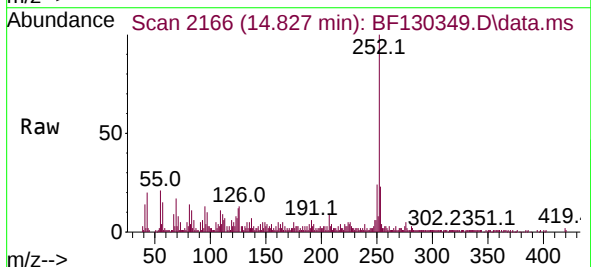
Manual Integrations  
APPROVED

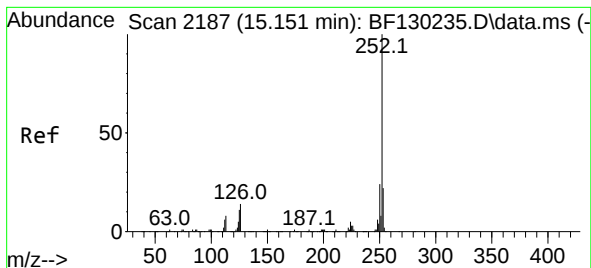
Reviewed By :Christian Giraldo 09/21/2022  
Supervised By :Jagrut Upadhyay 09/21/2022



#89  
Benzo(k)fluoranthene  
Concen: 3.665 ng m  
RT: 14.827 min Scan# 2166  
Delta R.T. -0.000 min  
Lab File: BF130349.D  
Acq: 20 Sep 2022 17:49

Tgt Ion:252 Resp: 42464  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.4 26.2  
125 11.8 7.9 11.9





#90

Benzo(a)pyrene

Concen: 6.442 ng

RT: 15.133 min Scan# 2187

Delta R.T. -0.000 min

Lab File: BF130349.D

Acq: 20 Sep 2022 17:49

Instrument :

BNA\_F

ClientSampleId :

BU-03-091622

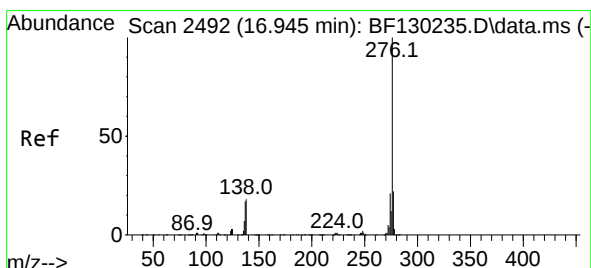
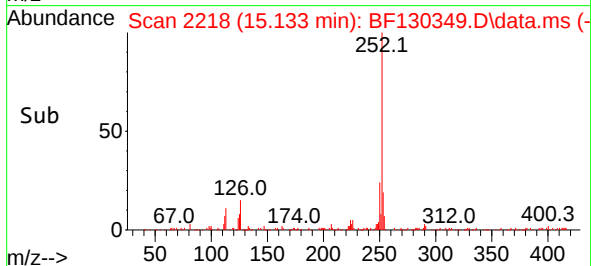
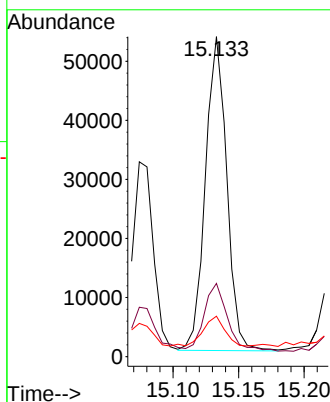
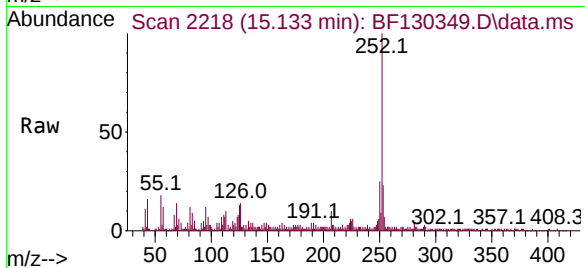
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 6012 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 22.9  | 17.8  | 26.6 |
| 125       | 12.6  | 9.0   | 13.6 |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#92

Benzo(g,h,i)perylene

Concen: 2.711 ng

RT: 16.909 min Scan# 2520

Delta R.T. 0.000 min

Lab File: BF130349.D

Acq: 20 Sep 2022 17:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 28672 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.4  | 18.6  | 27.8  |
| 138       | 20.3  | 14.6  | 21.8  |

