

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110422\  
 Data File : BF131013.D  
 Acq On : 05 Nov 2022 03:22  
 Operator : CG\JU  
 Sample : N5395-13RE  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-13-103122RE

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 11/05/2022  
 Supervised By : Jagrut Upadhyay 11/07/2022

Quant Time: Nov 05 03:58:45 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 04 06:20:24 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.910  | 152  | 50994    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.198  | 136  | 172107   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.957  | 164  | 83497    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.445 | 188  | 158775   | 20.000  | ng    | -0.01    |
| 76) Chrysene-d12            | 14.104 | 240  | 174742   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.610 | 264  | 165669   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.528  | 112  | 318481   | 108.272 | ng    | 0.00     |
| 7) Phenol-d6                | 6.534  | 99   | 373275   | 97.653  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.475  | 82   | 252757   | 88.555  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.745 | 330  | 88053    | 125.275 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.275  | 172  | 398367   | 72.132  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.039 | 244  | 480378   | 50.375  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 58) Fluorene                | 10.504 | 166  | 13618m   | 2.560   | ng    |          |
| 71) Phenanthrene            | 11.475 | 178  | 155865   | 19.020  | ng    | 99       |
| 72) Anthracene              | 11.522 | 178  | 42535    | 5.262   | ng    | 98       |
| 75) Fluoranthene            | 12.669 | 202  | 296444   | 34.047  | ng    | 97       |
| 78) Pyrene                  | 12.898 | 202  | 248164   | 16.833  | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.092 | 228  | 148357   | 12.806  | ng    | 98       |
| 83) Chrysene                | 14.127 | 228  | 143322   | 12.825  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.133 | 276  | 67191    | 6.107   | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.163 | 252  | 188851m  | 17.634  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.192 | 252  | 65235m   | 6.251   | ng    |          |
| 90) Benzo(a)pyrene          | 15.545 | 252  | 128538   | 14.931  | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 17.592 | 276  | 59637    | 6.518   | ng    | 97       |
| -----                       |        |      |          |         |       |          |

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

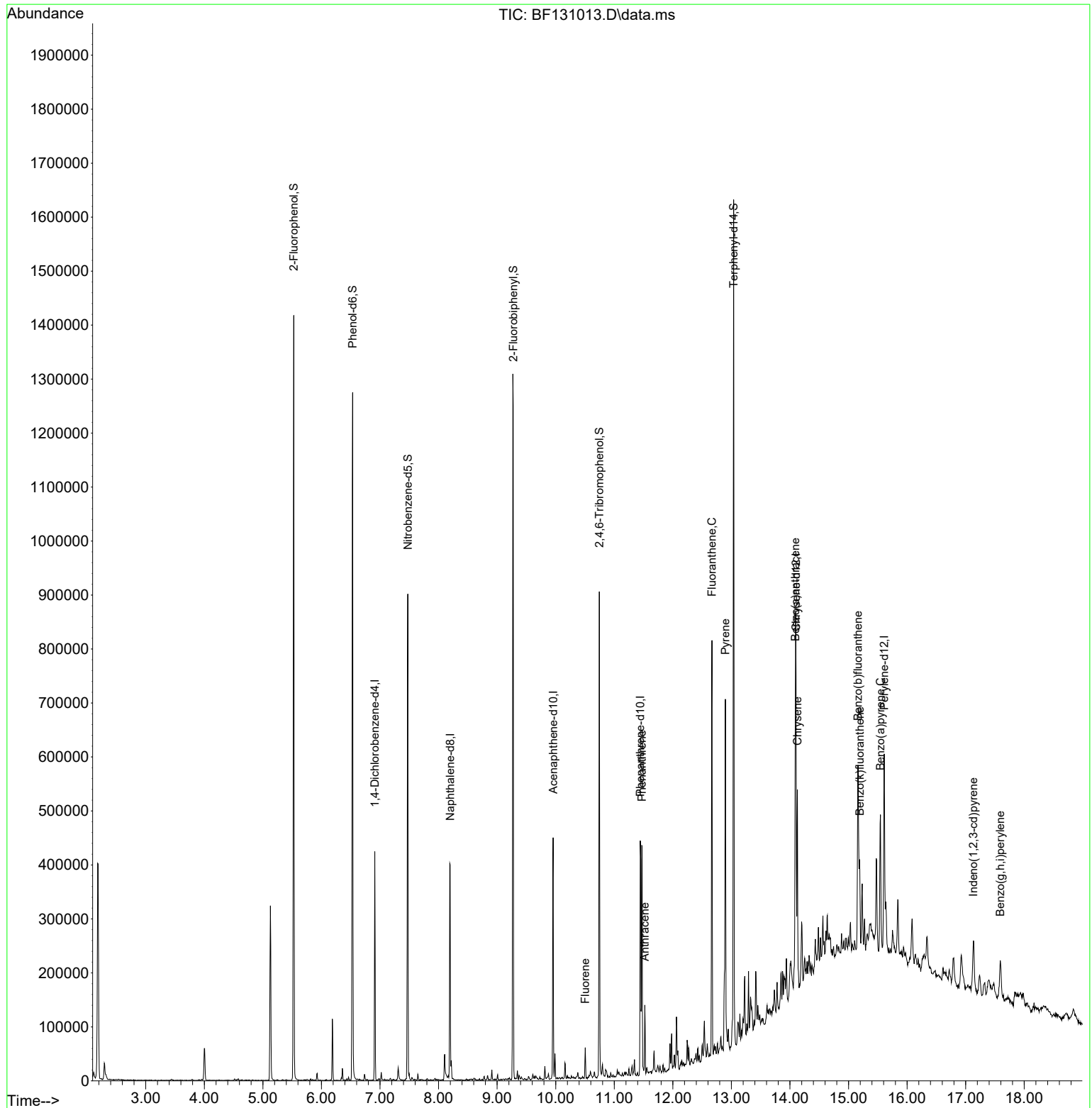
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110422\  
Data File : BF131013.D  
Acq On : 05 Nov 2022 03:22  
Operator : CG\JU  
Sample : N5395-13RE  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

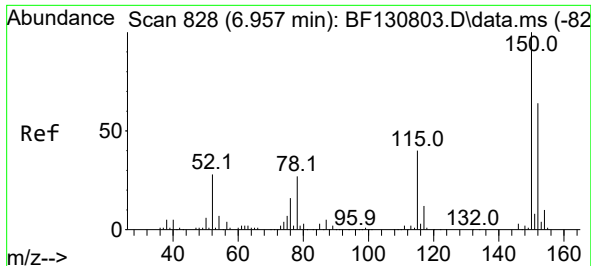
Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE

Quant Time: Nov 05 03:58:45 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102722.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 04 06:20:24 2022  
Response via : Initial Calibration

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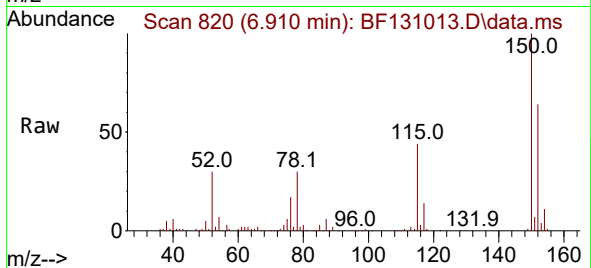
Reviewed By : Christian Giraldo 11/05/2022  
Supervised By : Jagrut Upadhyay 11/07/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.910 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

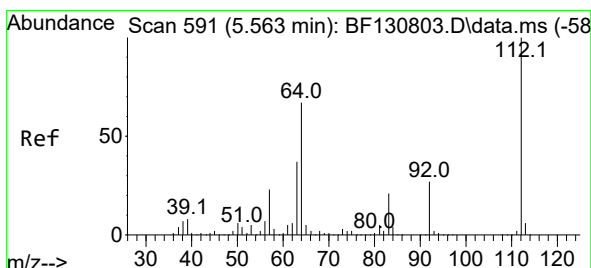
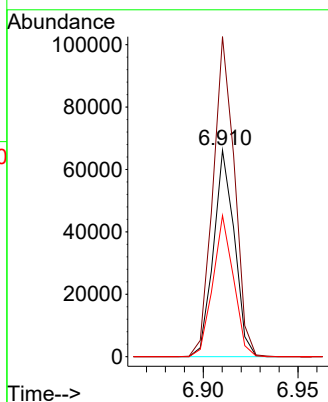
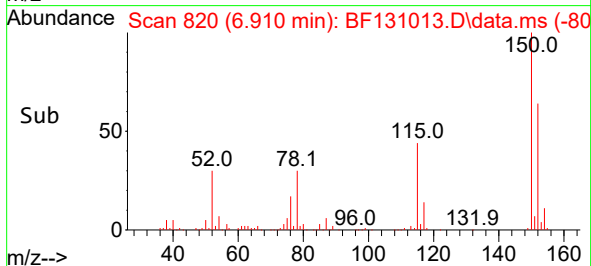
Instrument :  
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ClientSampleId :  
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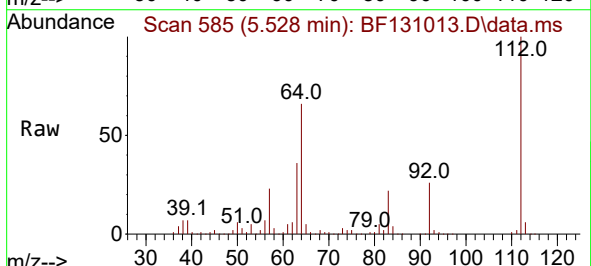
Tgt Ion:152 Resp: 50994  
Ion Ratio Lower Upper  
152 100  
150 155.0 124.1 186.1  
115 68.4 50.1 75.1

Manual Integrations  
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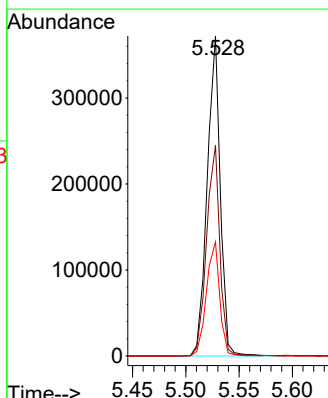
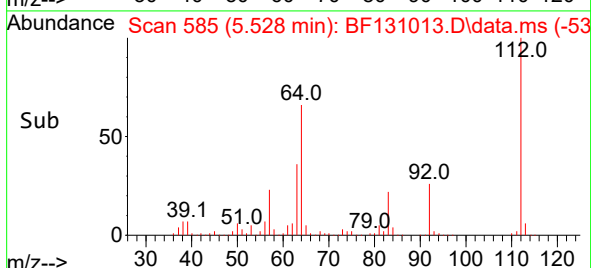
Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022

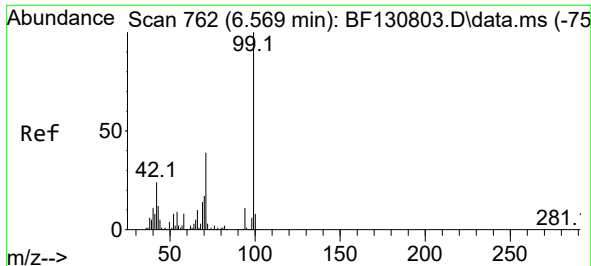


#5  
2-Fluorophenol  
Concen: 108.272 ng  
RT: 5.528 min Scan# 585  
Delta R.T. -0.000 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22



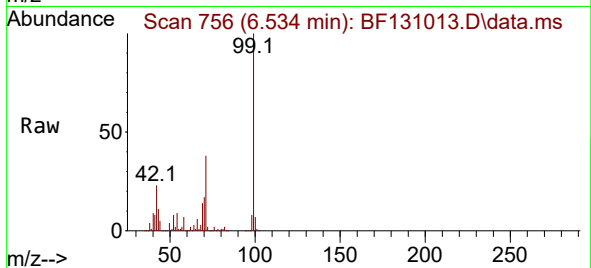
Tgt Ion:112 Resp: 318481  
Ion Ratio Lower Upper  
112 100  
64 65.8 53.9 80.9  
63 35.7 29.4 44.2





#7  
Phenol-d6  
Concen: 97.653 ng  
RT: 6.534 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

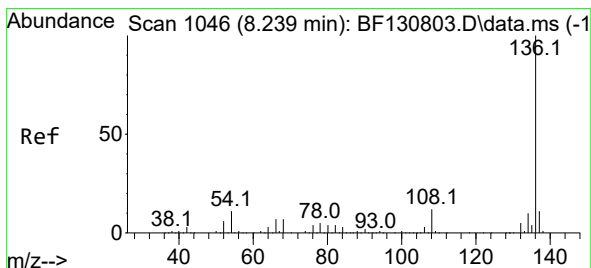
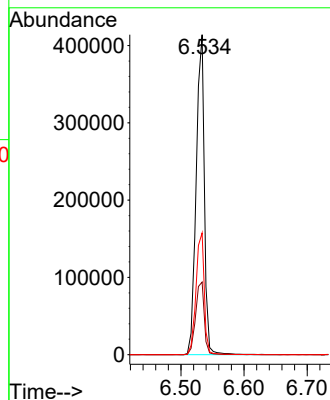
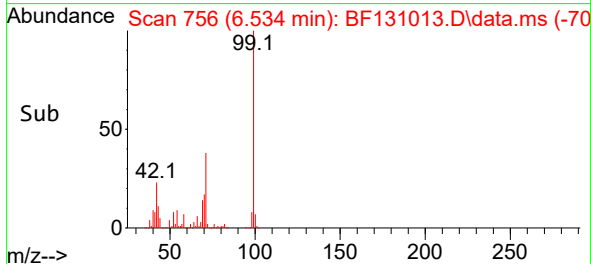
Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE



Tgt Ion: 99 Resp: 373275  
Ion Ratio Lower Upper  
99 100  
42 22.7 18.8 28.2  
71 38.1 31.4 47.0

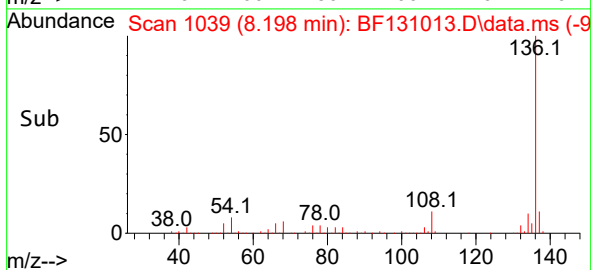
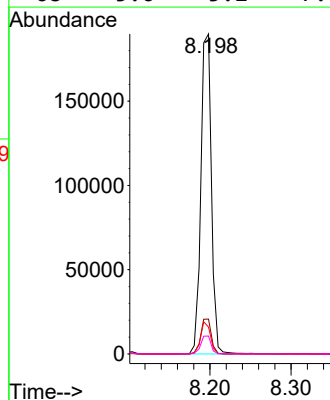
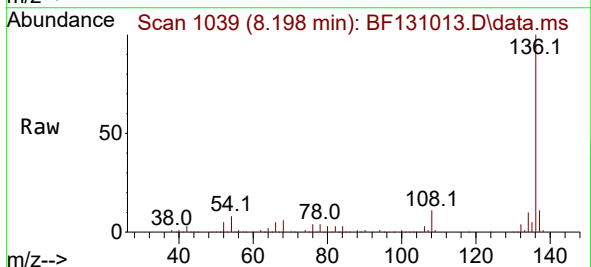
Manual Integrations  
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Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.198 min Scan# 1039  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

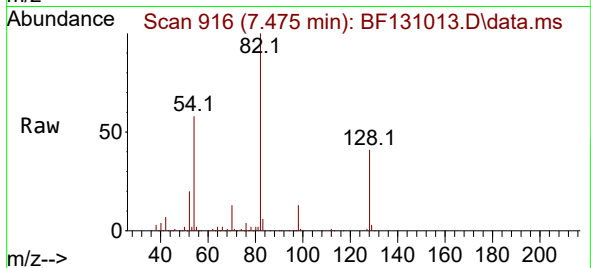
Tgt Ion:136 Resp: 172107  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.2 13.8  
54 8.4 8.8 13.2#  
68 5.6 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 88.555 ng  
RT: 7.475 min Scan# 916  
Delta R.T. -0.012 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

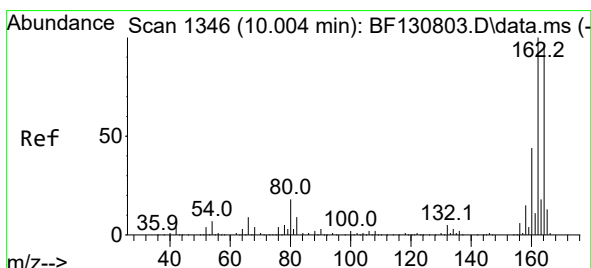
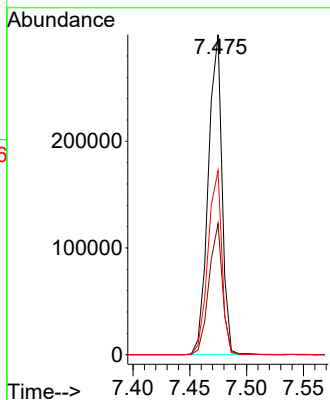
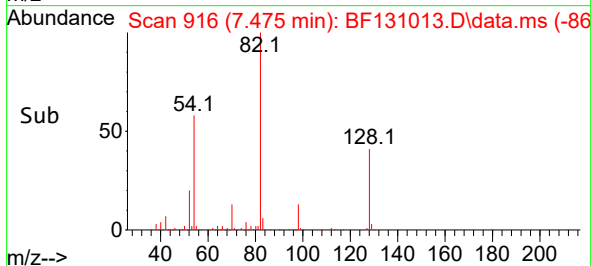
Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE



Tgt Ion: 82 Resp: 25275  
Ion Ratio Lower Upper  
82 100  
128 41.0 31.2 46.8  
54 57.5 48.0 72.0

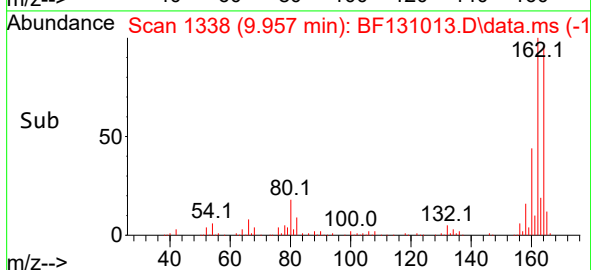
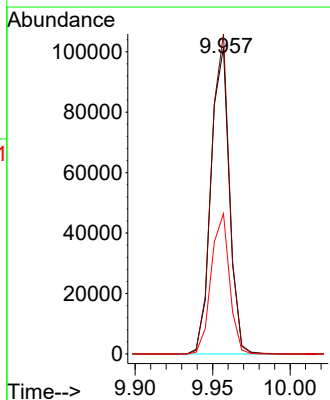
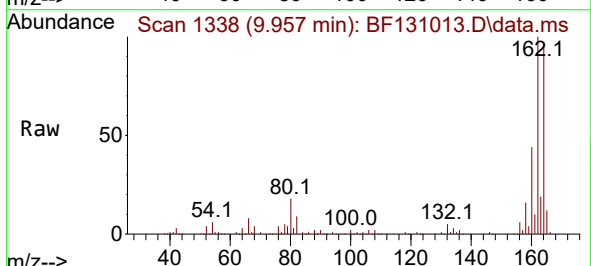
Manual Integrations  
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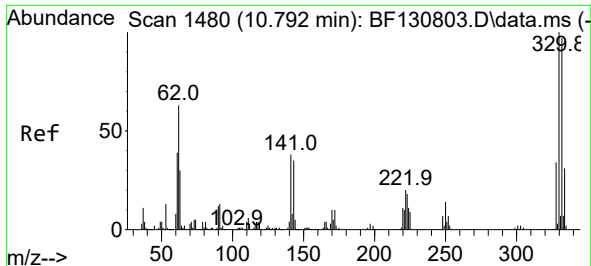
Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.957 min Scan# 1338  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

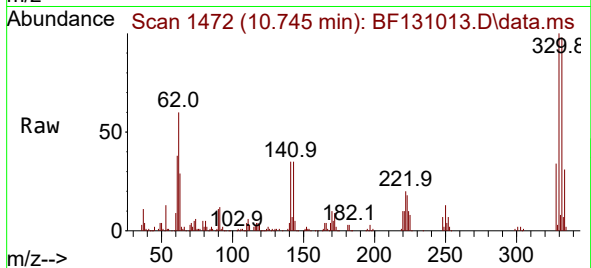
Tgt Ion:164 Resp: 83497  
Ion Ratio Lower Upper  
164 100  
162 104.4 82.2 123.2  
160 45.8 36.6 54.8





#42  
2,4,6-Tribromophenol  
Concen: 125.275 ng  
RT: 10.745 min Scan# 1480  
Delta R.T. -0.012 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

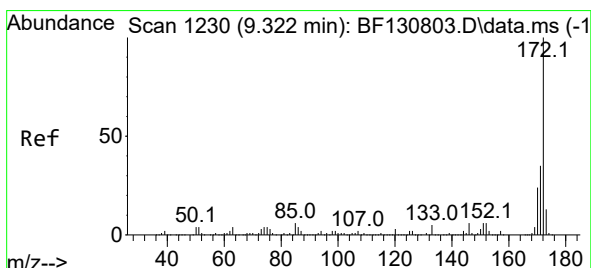
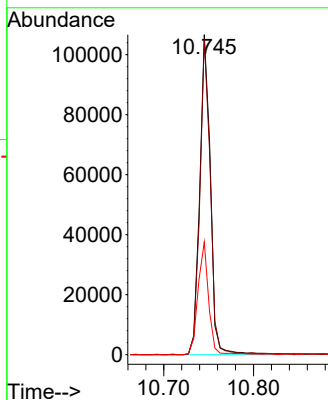
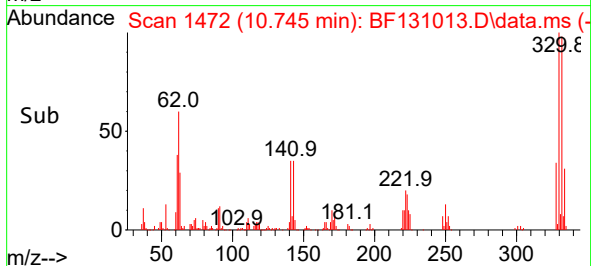
Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE



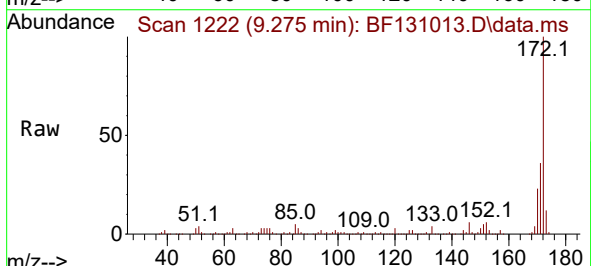
Tgt Ion: 330 Resp: 8805  
Ion Ratio Lower Upper  
330 100  
332 97.5 76.2 114.4  
141 35.5 31.4 47.0

Manual Integrations  
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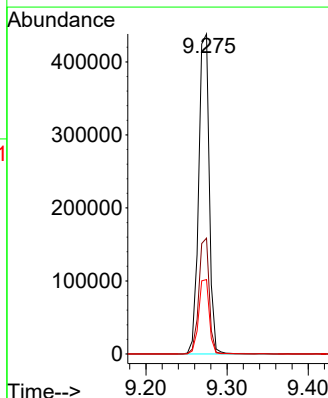
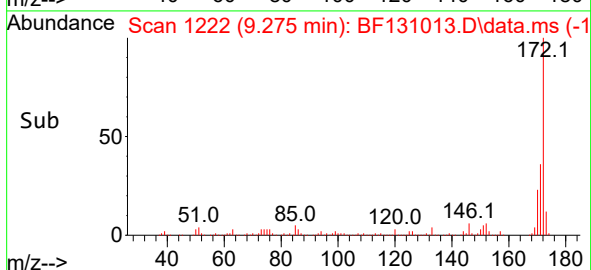
Reviewed By : Christian Giraldo 11/05/2022  
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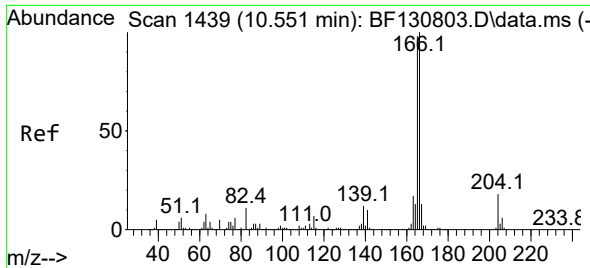


#45  
2-Fluorobiphenyl  
Concen: 72.132 ng  
RT: 9.275 min Scan# 1222  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22



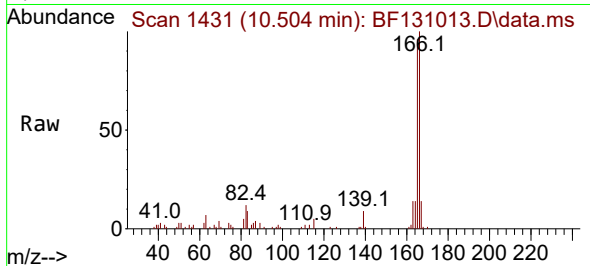
Tgt Ion: 172 Resp: 398367  
Ion Ratio Lower Upper  
172 100  
171 36.2 28.1 42.1  
170 23.2 19.0 28.4





#58  
Fluorene  
Concen: 2.560 ng m  
RT: 10.504 min Scan# 1431  
Delta R.T. -0.012 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

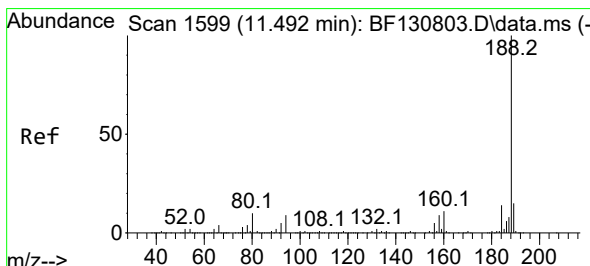
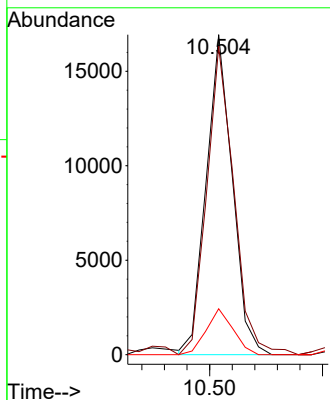
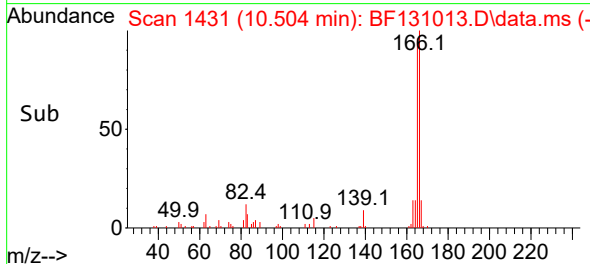
Instrument :  
BNA\_F  
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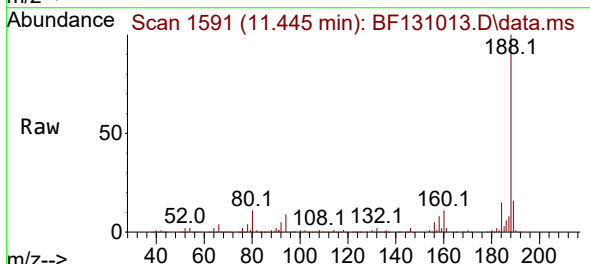
Tgt Ion:166 Resp: 13618  
Ion Ratio Lower Upper  
166 100  
165 96.3 78.1 117.1  
167 14.4 10.4 15.6

Manual Integrations  
APPROVED

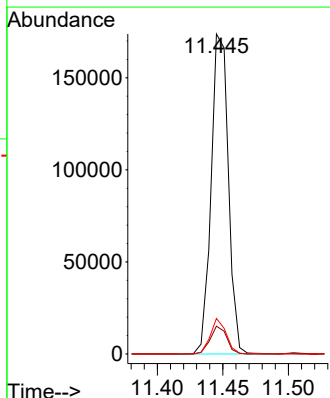
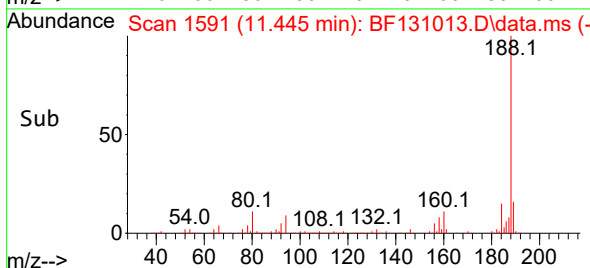
Reviewed By :Christian Giraldo 11/05/2022  
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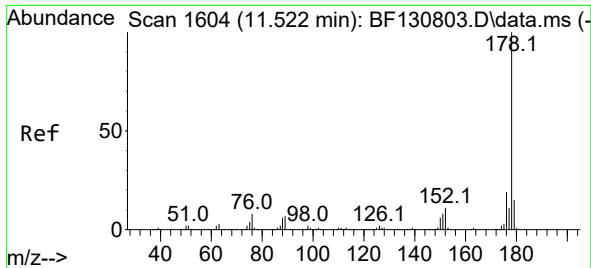


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.445 min Scan# 1591  
Delta R.T. -0.012 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22



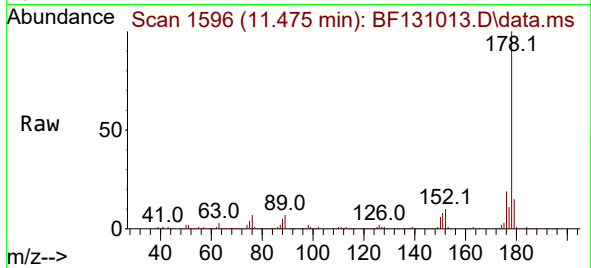
Tgt Ion:188 Resp: 158775  
Ion Ratio Lower Upper  
188 100  
94 8.7 7.4 11.2  
80 11.1 8.0 12.0





#71  
Phenanthrene  
Concen: 19.020 ng  
RT: 11.475 min Scan# 11475  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

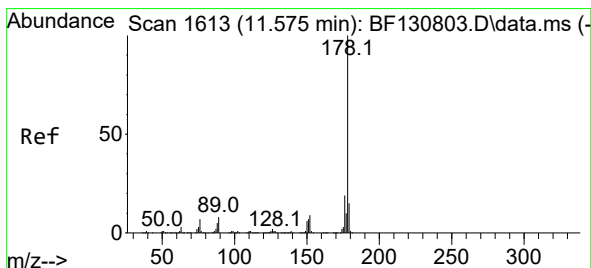
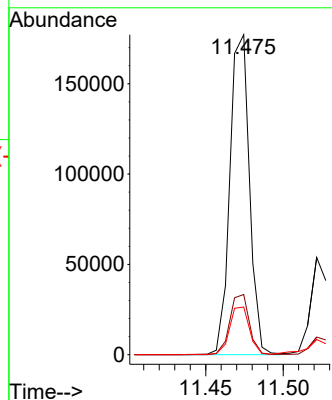
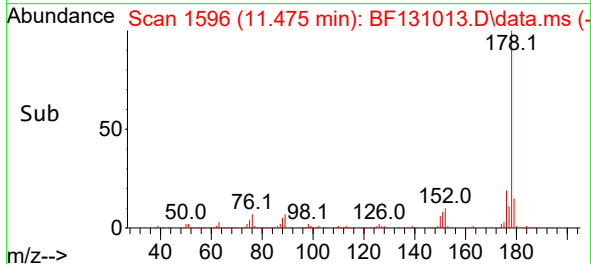
Instrument :  
BNA\_F  
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S-13-103122RE



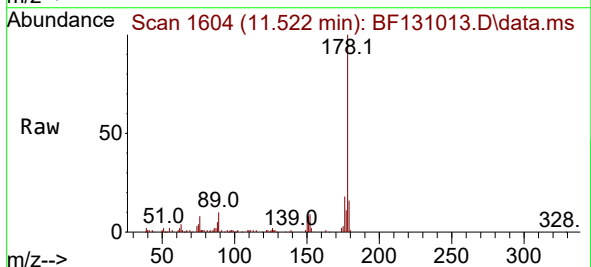
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Ion Ratio Lower Upper  
178 100  
176 18.8 15.5 23.3  
179 14.9 12.2 18.2

Manual Integrations  
APPROVED

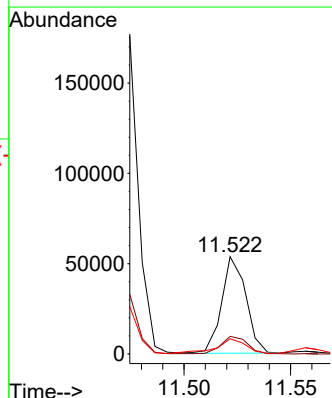
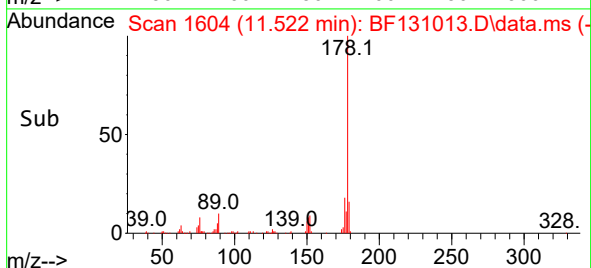
Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022

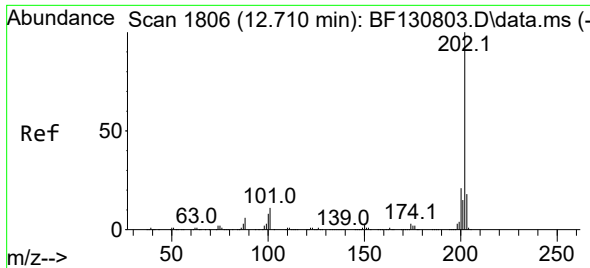


#72  
Anthracene  
Concen: 5.262 ng  
RT: 11.522 min Scan# 1604  
Delta R.T. -0.012 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22



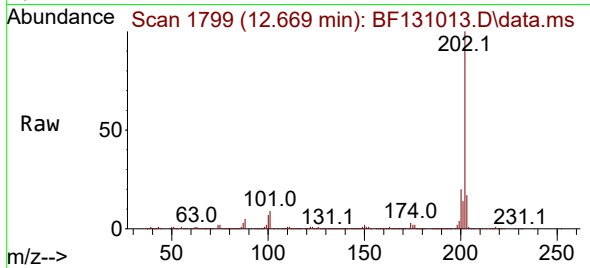
Tgt Ion:178 Resp: 42535  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.4 23.0  
179 15.7 12.2 18.4





#75  
Fluoranthene  
Concen: 34.047 ng  
RT: 12.669 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

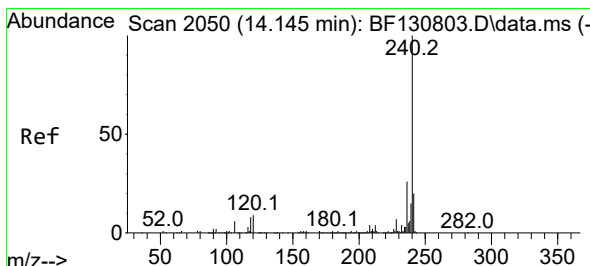
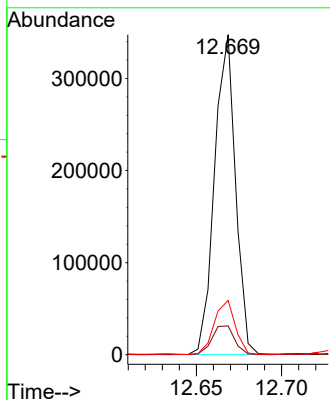
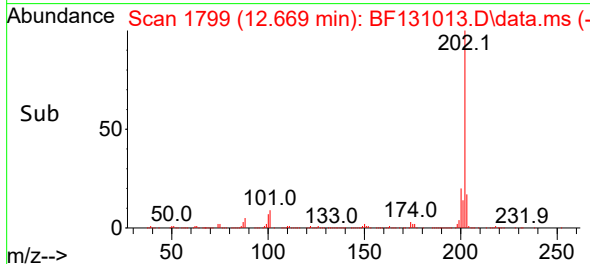
Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE



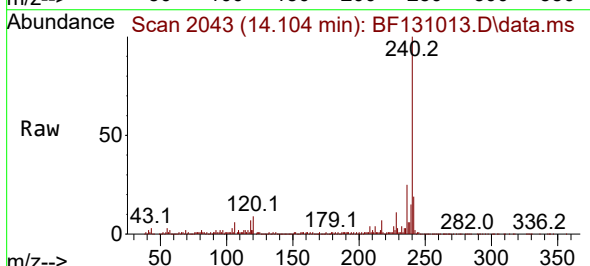
Tgt Ion:202 Resp: 296444  
Ion Ratio Lower Upper  
202 100  
101 9.0 0.0 30.9  
203 16.9 0.0 37.7

Manual Integrations  
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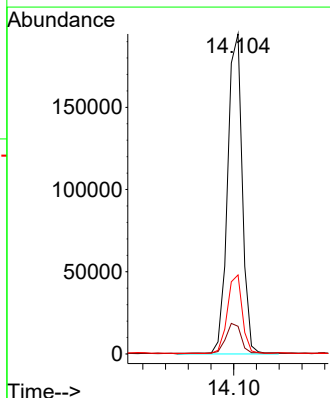
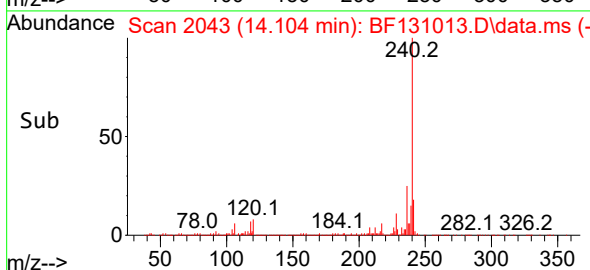
Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022

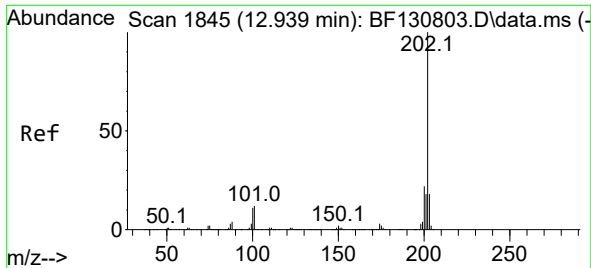


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.104 min Scan# 2043  
Delta R.T. -0.000 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22



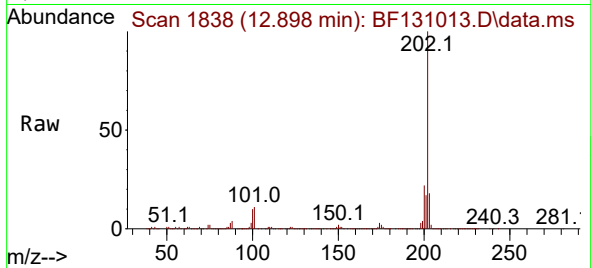
Tgt Ion:240 Resp: 174742  
Ion Ratio Lower Upper  
240 100  
120 8.6 7.0 10.4  
236 24.7 20.5 30.7





#78  
 Pyrene  
 Concen: 16.833 ng  
 RT: 12.898 min Scan# 1838  
 Delta R.T. -0.006 min  
 Lab File: BF131013.D  
 Acq: 05 Nov 2022 03:22

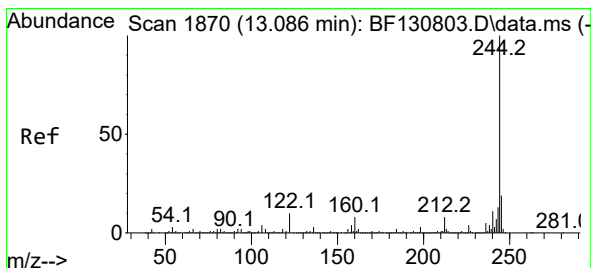
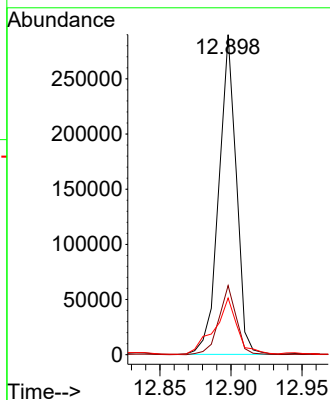
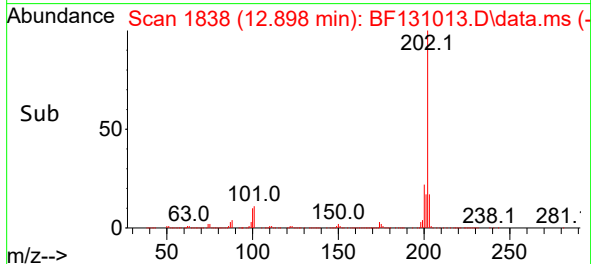
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-13-103122RE



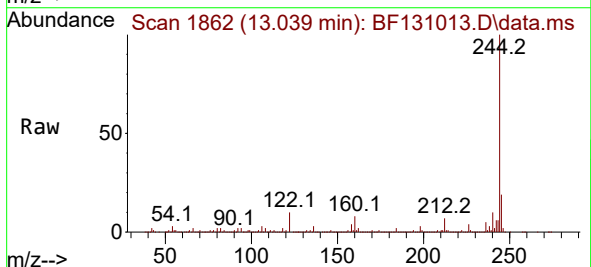
Tgt Ion:202 Resp: 248164  
 Ion Ratio Lower Upper  
 202 100  
 200 21.6 17.2 25.8  
 203 17.7 14.5 21.7

Manual Integrations  
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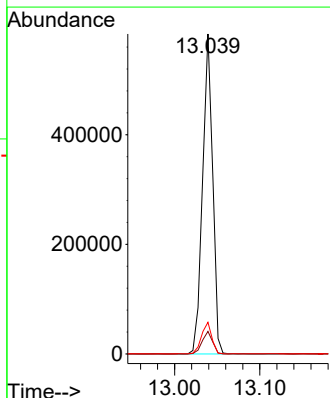
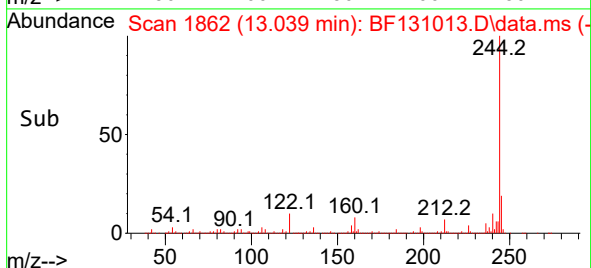
Reviewed By :Christian Giraldo 11/05/2022  
 Supervised By :Jagrut Upadhyay 11/07/2022

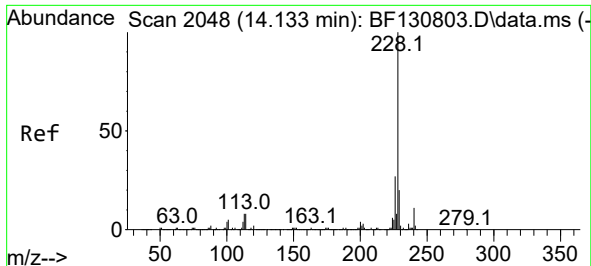


#79  
 Terphenyl-d14  
 Concen: 50.375 ng  
 RT: 13.039 min Scan# 1862  
 Delta R.T. -0.006 min  
 Lab File: BF131013.D  
 Acq: 05 Nov 2022 03:22



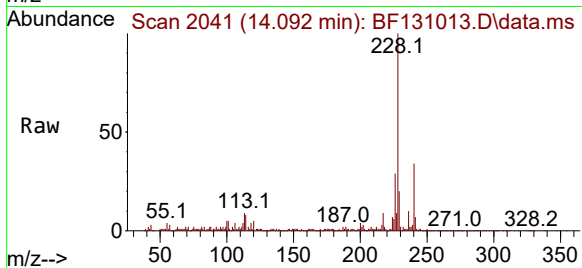
Tgt Ion:244 Resp: 480378  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.2 9.2  
 122 9.9 7.9 11.9





#81  
Benzo(a)anthracene  
Concen: 12.806 ng  
RT: 14.092 min Scan# 2041  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

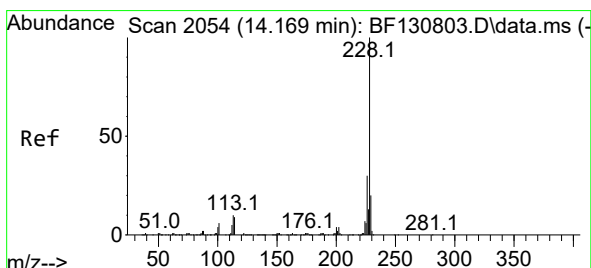
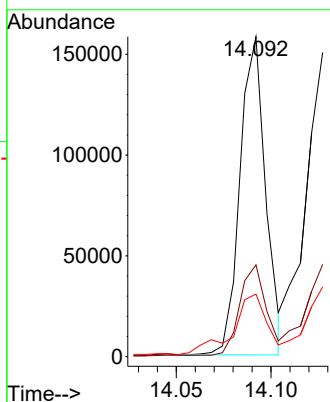
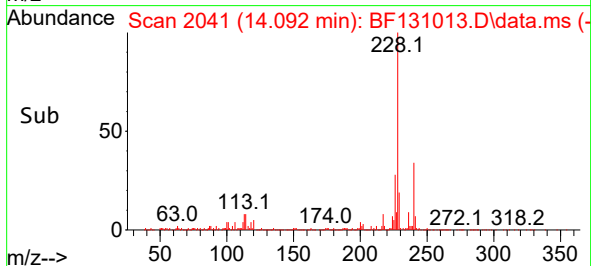
Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE



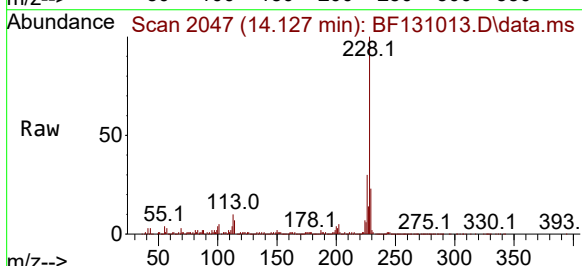
Tgt Ion:228 Resp: 14835  
Ion Ratio Lower Upper  
228 100  
226 28.7 21.4 32.2  
229 19.6 15.8 23.6

Manual Integrations  
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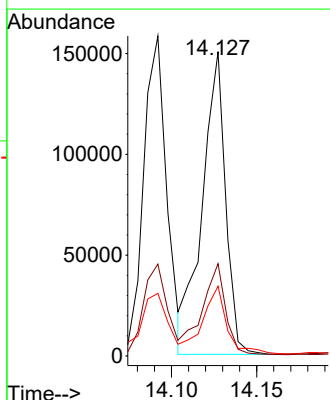
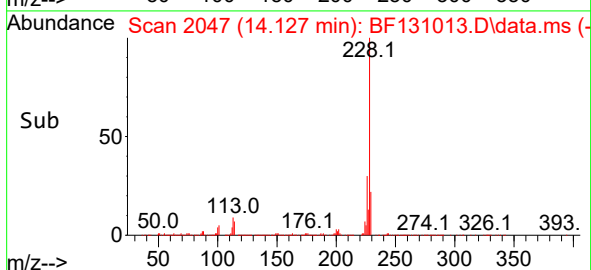
Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022

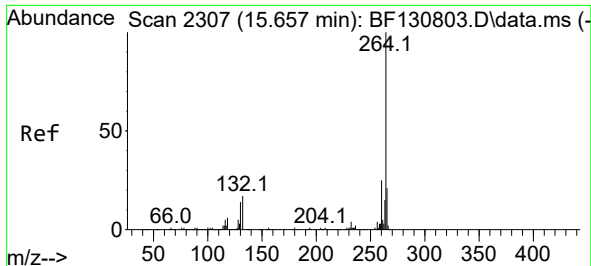


#83  
Chrysene  
Concen: 12.825 ng  
RT: 14.127 min Scan# 2047  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22



Tgt Ion:228 Resp: 143322  
Ion Ratio Lower Upper  
228 100  
226 30.3 23.9 35.9  
229 22.9 15.8 23.6





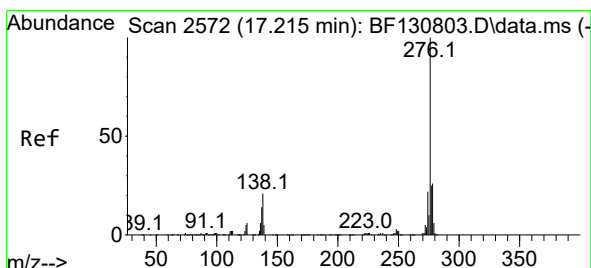
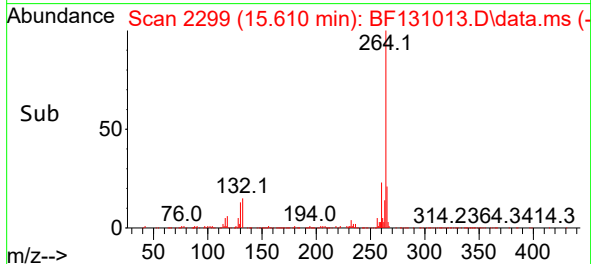
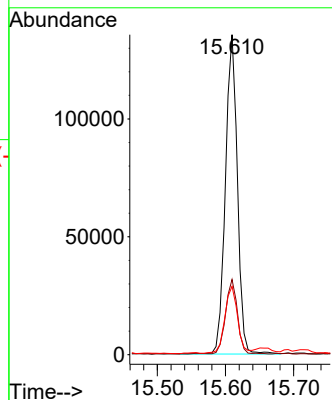
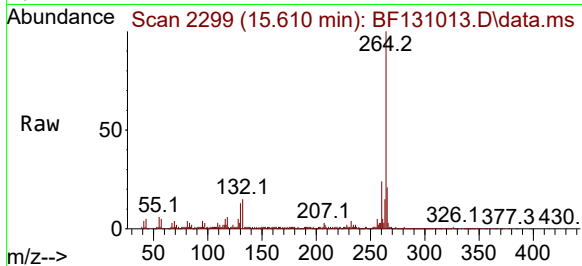
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.610 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE

Tgt Ion:264 Resp: 165669  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.9 29.9  
265 21.4 17.0 25.6

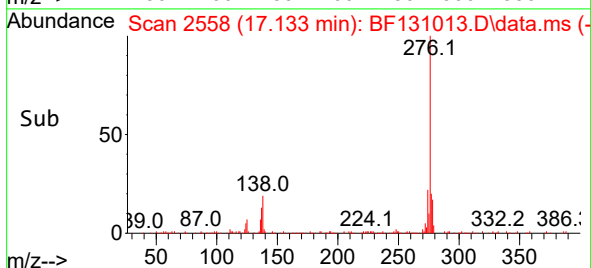
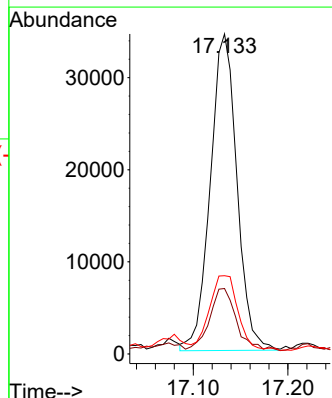
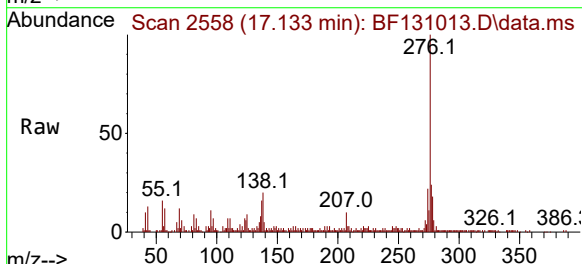
Manual Integrations  
APPROVED

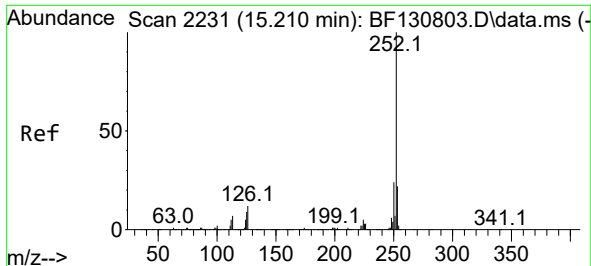
Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 6.107 ng  
RT: 17.133 min Scan# 2558  
Delta R.T. -0.012 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

Tgt Ion:276 Resp: 67191  
Ion Ratio Lower Upper  
276 100  
138 19.8 19.1 28.7  
277 25.3 20.1 30.1





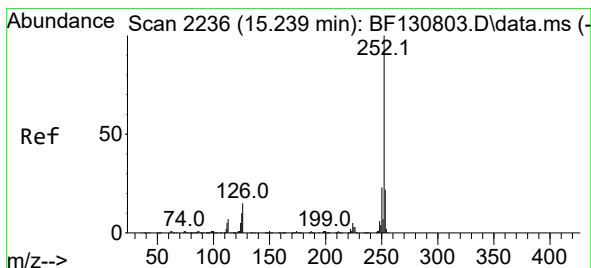
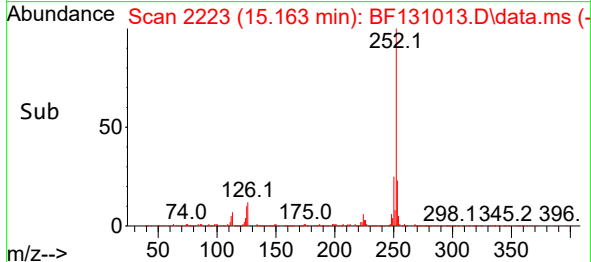
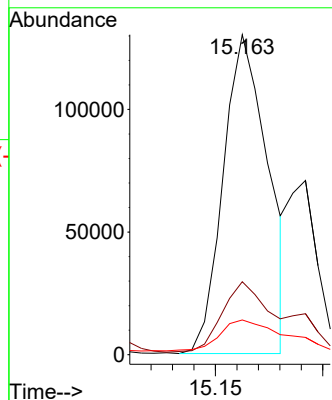
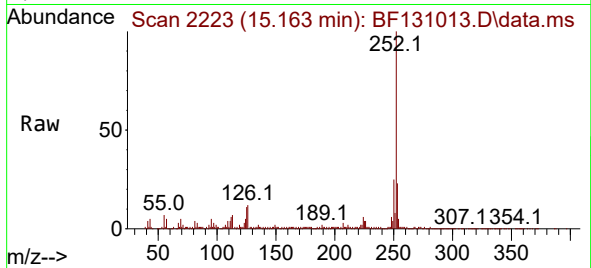
#88  
Benzo(b)fluoranthene  
Concen: 17.634 ng m  
RT: 15.163 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

Instrument :  
BNA\_F  
ClientSampleId :  
S-13-103122RE

Tgt Ion:252 Resp: 18885  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.5 26.3  
125 10.9 7.0 10.4

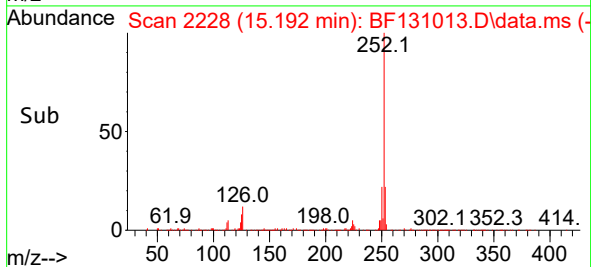
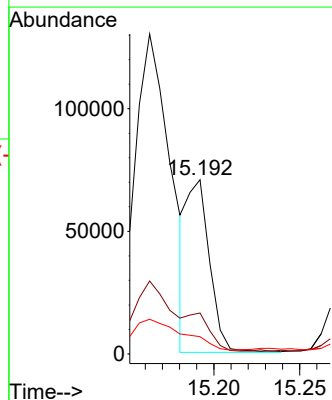
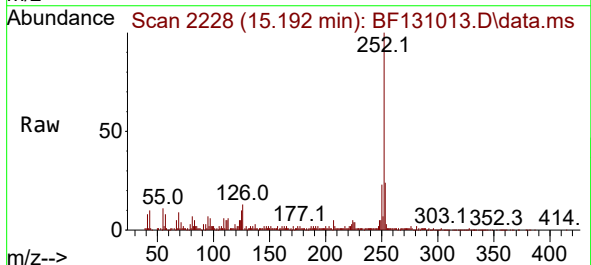
Manual Integrations  
APPROVED

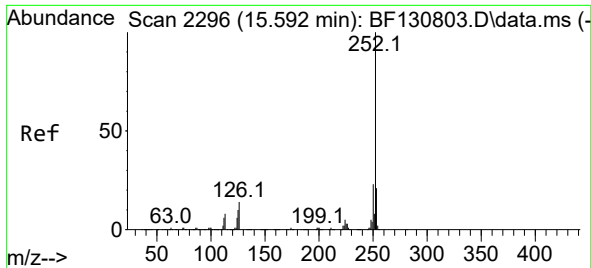
Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#89  
Benzo(k)fluoranthene  
Concen: 6.251 ng m  
RT: 15.192 min Scan# 2228  
Delta R.T. -0.006 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

Tgt Ion:252 Resp: 65235  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.5 26.3  
125 9.9 8.0 12.0





#90  
Benzo(a)pyrene  
Concen: 14.931 ng  
RT: 15.545 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

Instrument :

BNA\_F

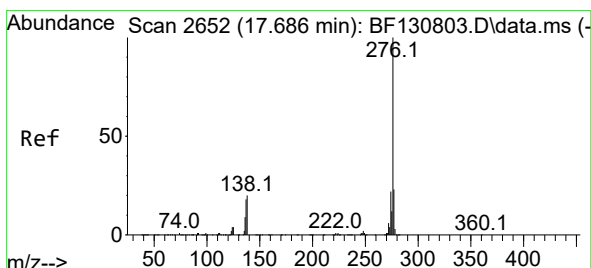
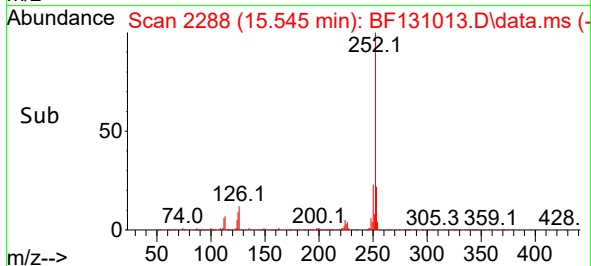
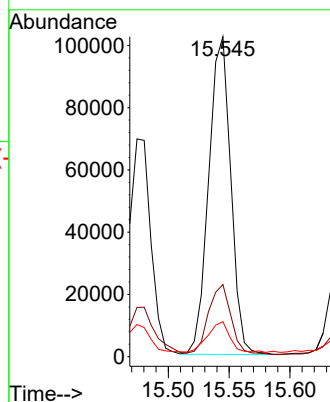
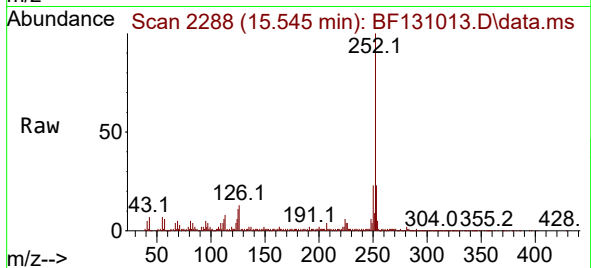
ClientSampleId :

S-13-103122RE

Tgt Ion:252 Resp: 128538  
Ion Ratio Lower Upper  
252 100  
253 22.5 16.8 25.2  
125 10.9 8.3 12.5

Manual Integrations  
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Reviewed By :Christian Giraldo 11/05/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#92  
Benzo(g,h,i)perylene  
Concen: 6.518 ng  
RT: 17.592 min Scan# 2636  
Delta R.T. -0.018 min  
Lab File: BF131013.D  
Acq: 05 Nov 2022 03:22

Tgt Ion:276 Resp: 59637  
Ion Ratio Lower Upper  
276 100  
277 26.0 18.8 28.2  
138 20.1 16.3 24.5

