

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF111122\  
 Data File : BF131177.D  
 Acq On : 12 Nov 2022 04:16  
 Operator : CG\JU  
 Sample : N5545-01 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-1-110922

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 11/12/2022  
 Supervised By : Jagrut Upadhyay 11/12/2022

Quant Time: Nov 12 04:42:55 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF110922.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 12 00:03:31 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.875  | 152  | 56364    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.163  | 136  | 184860   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.922  | 164  | 86848    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.416 | 188  | 158303   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.068 | 240  | 98658    | 20.000 | ng    | 0.01     |
| 86) Perylene-d12            | 15.568 | 264  | 73010    | 20.000 | ng    | 0.02     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.498  | 112  | 205230   | 61.922 | ng    | 0.01     |
| 7) Phenol-d6                | 6.504  | 99   | 216561   | 49.979 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.439  | 82   | 129756   | 31.670 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.716 | 330  | 47430    | 52.844 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.239  | 172  | 232003   | 37.292 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.004 | 244  | 233887   | 41.566 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 37) 2-Methylnaphthalene     | 8.875  | 142  | 18815    | 2.890  | ng    | 94       |
| 38) 1-Methylnaphthalene     | 8.975  | 142  | 17978    | 2.819  | ng    | 99       |
| 49) Acenaphthylene          | 9.780  | 152  | 18074    | 2.171  | ng    | # 94     |
| 71) Phenanthrene            | 11.439 | 178  | 88544    | 10.170 | ng    | 99       |
| 72) Anthracene              | 11.492 | 178  | 17898    | 2.118  | ng    | 99       |
| 75) Fluoranthene            | 12.633 | 202  | 98869    | 11.345 | ng    | 99       |
| 78) Pyrene                  | 12.863 | 202  | 89754    | 10.604 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.057 | 228  | 38151    | 5.410  | ng    | # 94     |
| 83) Chrysene                | 14.092 | 228  | 36384    | 5.463  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.080 | 276  | 13449    | 5.935  | ng    | # 92     |
| 88) Benzo(b)fluoranthene    | 15.127 | 252  | 47358m   | 9.175  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.151 | 252  | 13443m   | 2.710  | ng    |          |
| 90) Benzo(a)pyrene          | 15.504 | 252  | 22255    | 5.378  | ng    | # 84     |
| 92) Benzo(g,h,i)perylene    | 17.545 | 276  | 13850    | 6.818  | ng    | # 87     |
| -----                       |        |      |          |        |       |          |

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

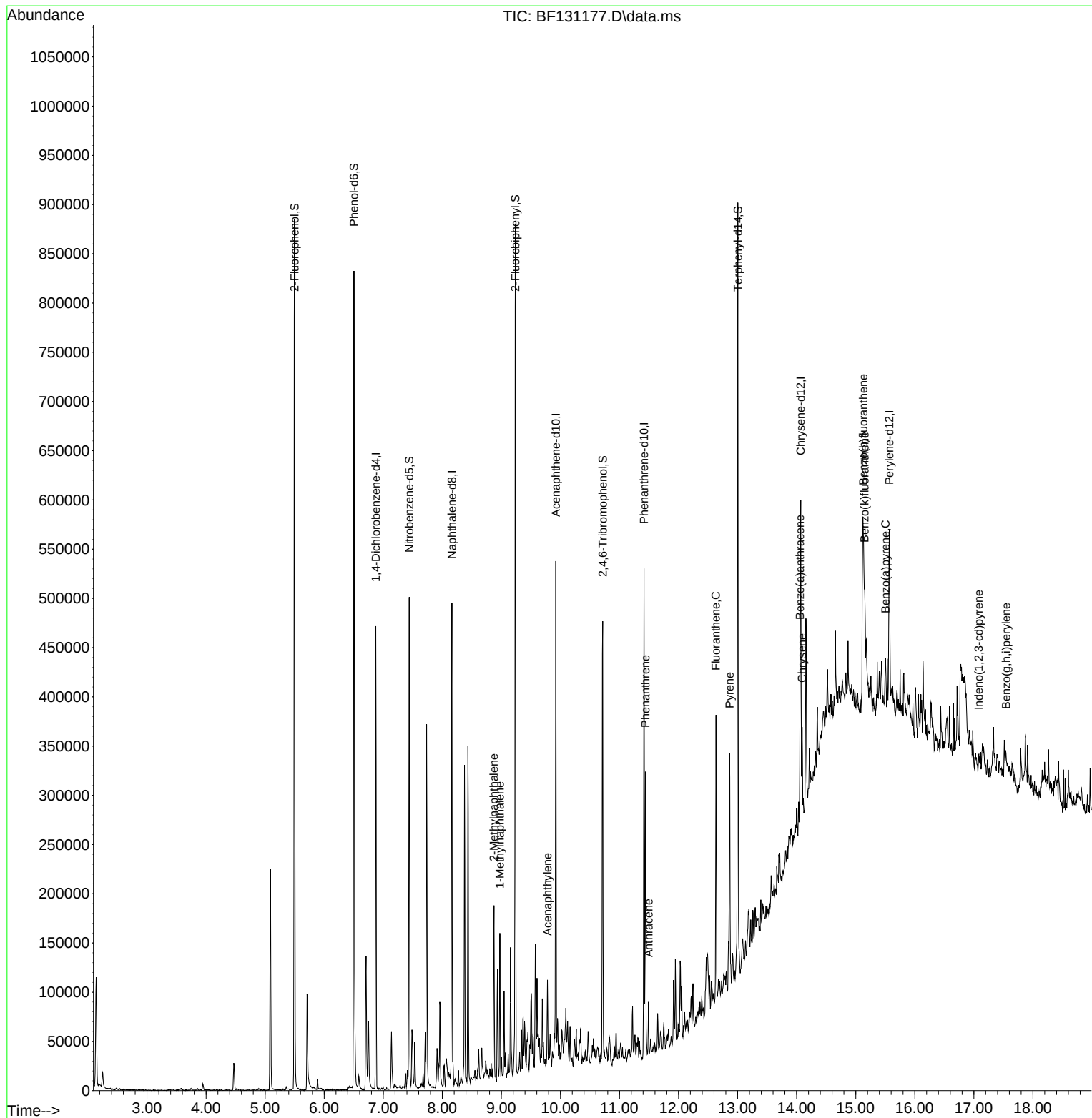
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF111122\  
Data File : BF131177.D  
Acq On : 12 Nov 2022 04:16  
Operator : CG\JU  
Sample : N5545-01 2X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

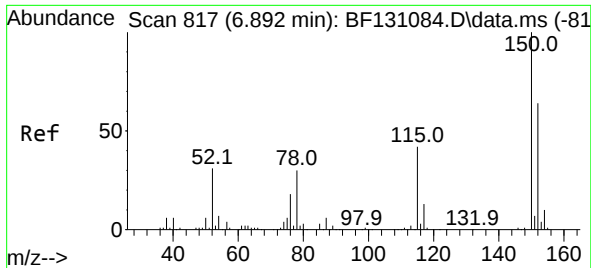
Instrument :  
BNA\_F  
ClientSampleId :  
CL-1-110922

Quant Time: Nov 12 04:42:55 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF110922.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Nov 12 00:03:31 2022  
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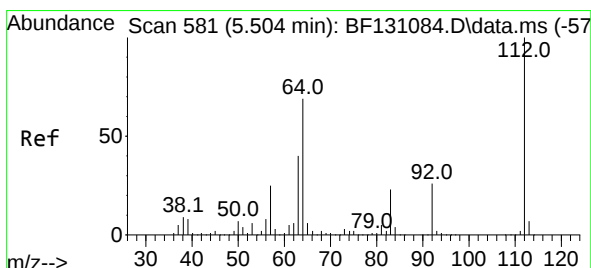
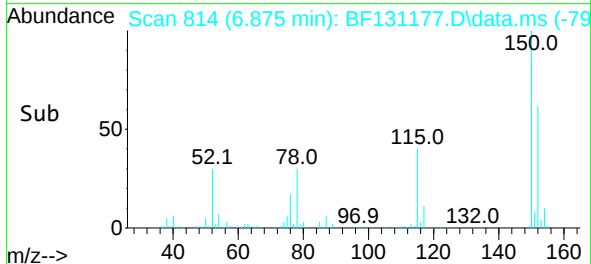
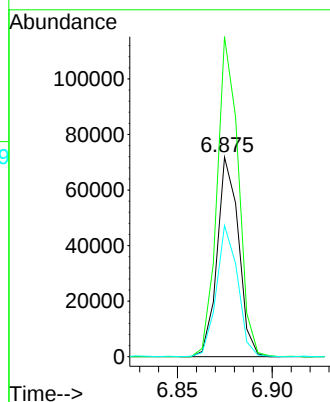
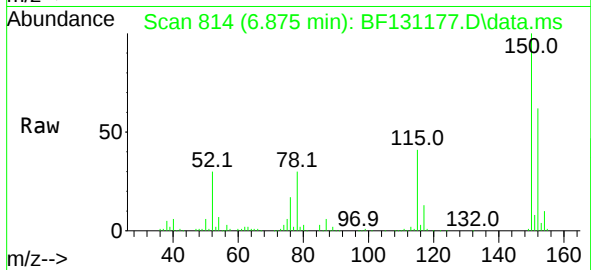
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

Instrument :  
BNA\_F  
ClientSampleId :  
CL-1-110922

Tgt Ion:152 Resp: 56364  
Ion Ratio Lower Upper  
152 100  
150 160.4 125.5 188.3  
115 65.8 52.2 78.2

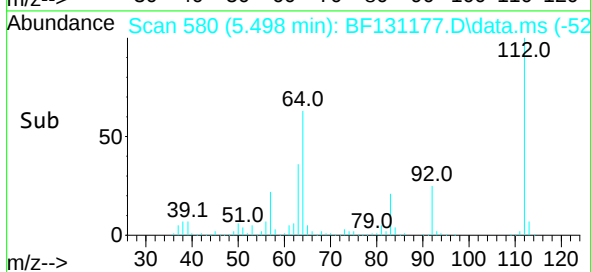
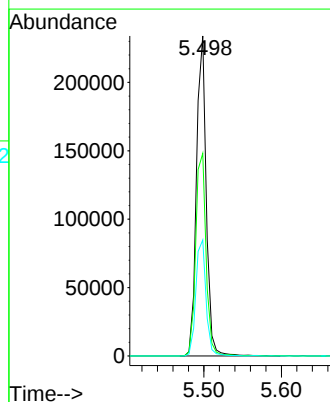
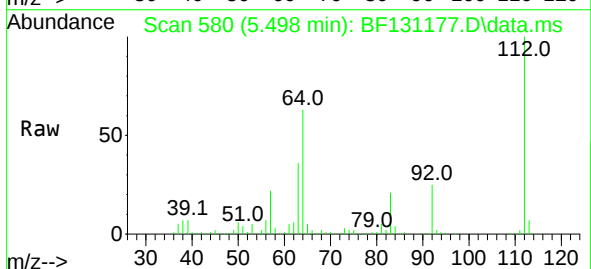
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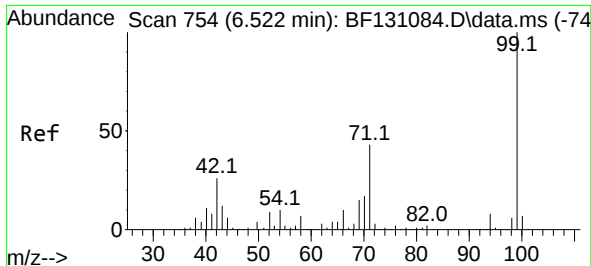
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022



#5  
2-Fluorophenol  
Concen: 61.922 ng  
RT: 5.498 min Scan# 580  
Delta R.T. 0.012 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

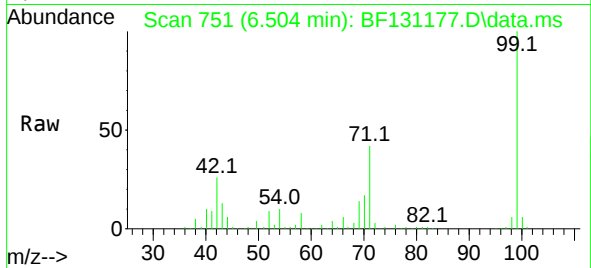
Tgt Ion:112 Resp: 205230  
Ion Ratio Lower Upper  
112 100  
64 63.3 55.1 82.7  
63 36.3 32.4 48.6





#7  
Phenol-d6  
Concen: 49.979 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

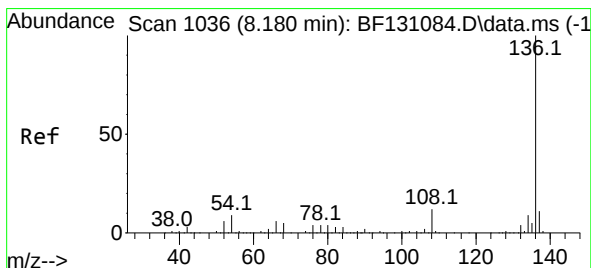
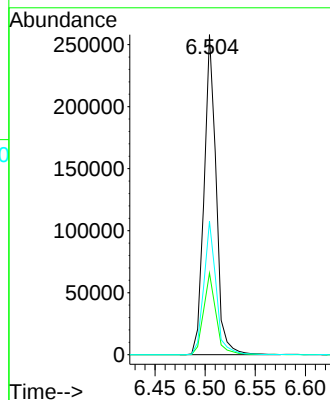
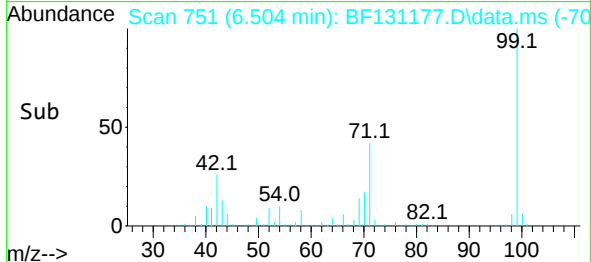
Instrument :  
BNA\_F  
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CL-1-110922



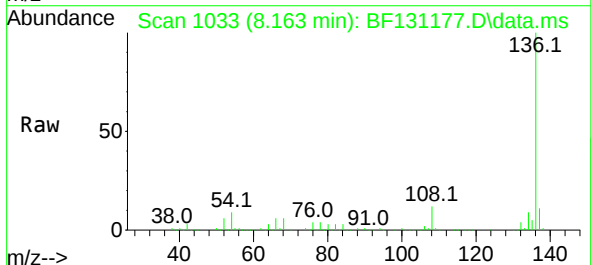
Tgt Ion: 99 Resp: 21656  
Ion Ratio Lower Upper  
99 100  
42 25.5 20.8 31.2  
71 41.7 34.2 51.4

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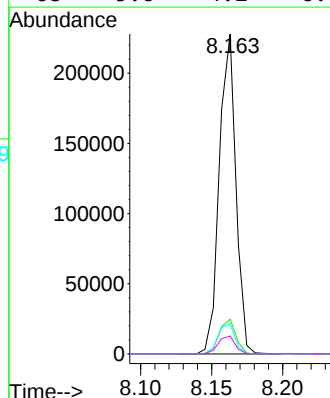
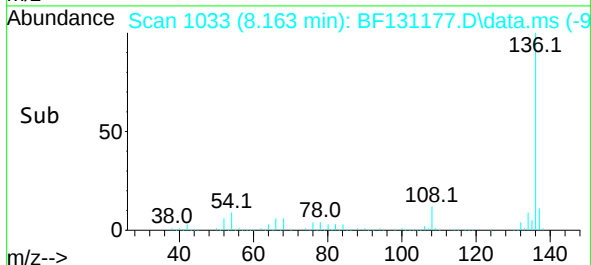
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

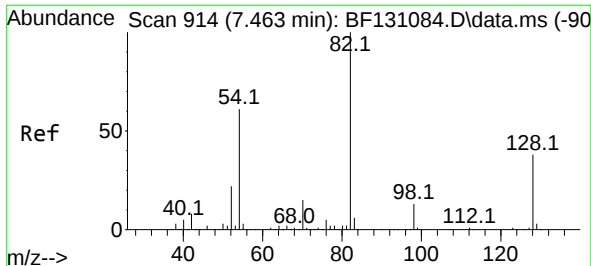


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 1033  
Delta R.T. 0.006 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16



Tgt Ion:136 Resp: 184860  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 9.4 7.2 10.8  
68 5.6 4.2 6.4





#23

Nitrobenzene-d5

Concen: 31.670 ng

RT: 7.439 min Scan# 914

Delta R.T. -0.006 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

Instrument :

BNA\_F

ClientSampleId :

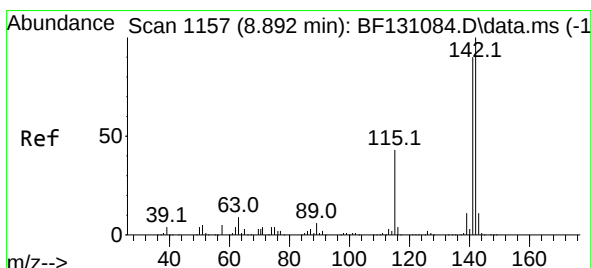
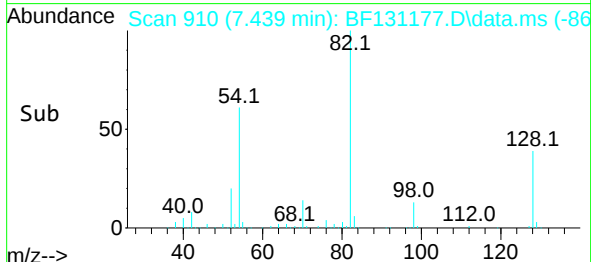
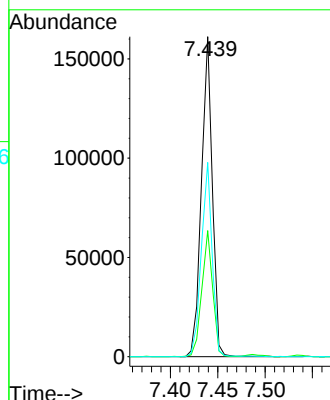
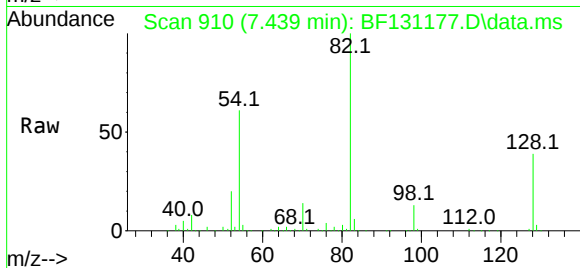
CL-1-110922

Tgt Ion: 82 Resp: 129750  
 Ion Ratio Lower Upper  
 82 100  
 128 39.4 30.5 45.7  
 54 60.7 49.1 73.7

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 Supervised By :Jagrut Upadhyay 11/12/2022



#37

2-Methylnaphthalene

Concen: 2.890 ng

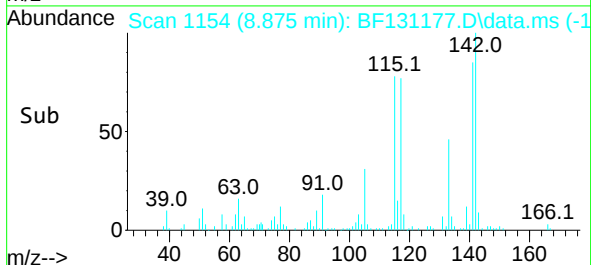
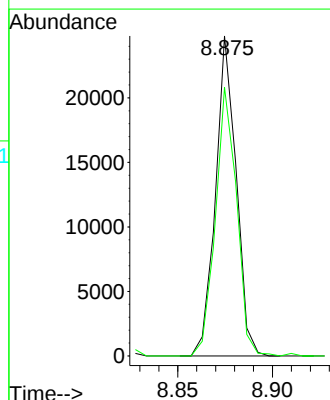
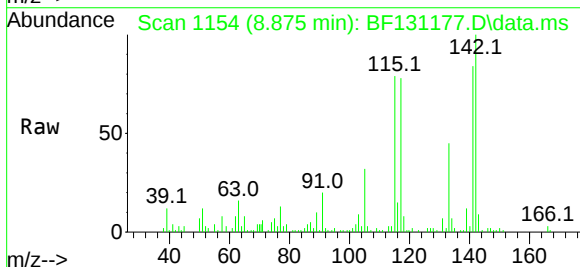
RT: 8.875 min Scan# 1154

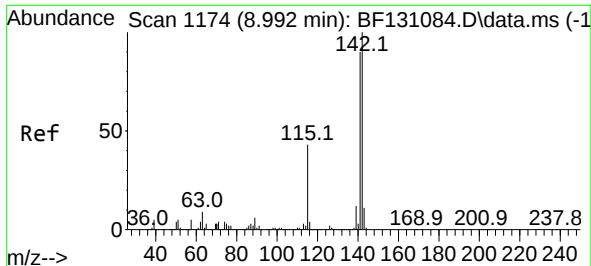
Delta R.T. -0.000 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

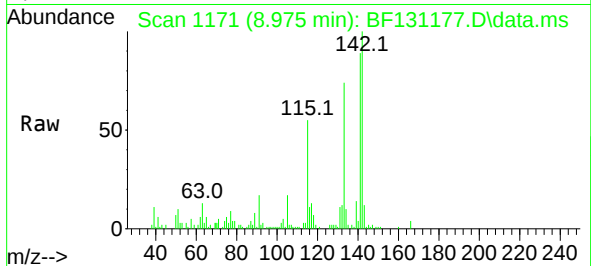
Tgt Ion:142 Resp: 18815  
 Ion Ratio Lower Upper  
 142 100  
 141 83.9 72.0 108.0





#38  
1-Methylnaphthalene  
Concen: 2.819 ng  
RT: 8.975 min Scan# 1174  
Delta R.T. -0.000 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

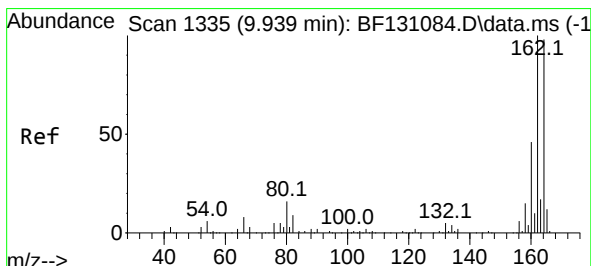
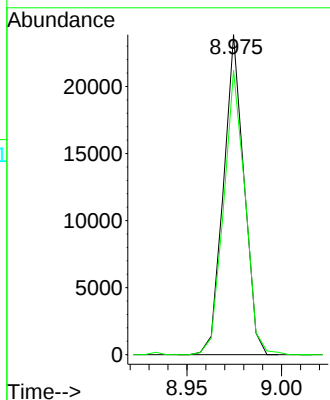
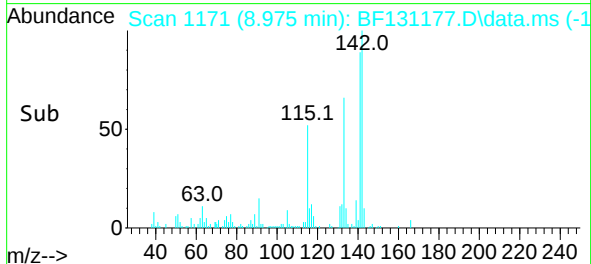
Instrument :  
BNA\_F  
ClientSampleId :  
CL-1-110922



Tgt Ion:142 Resp: 17978  
Ion Ratio Lower Upper  
142 100  
141 88.9 72.1 108.1

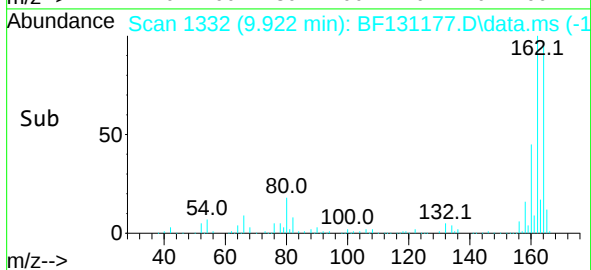
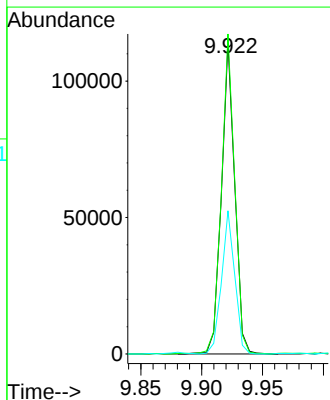
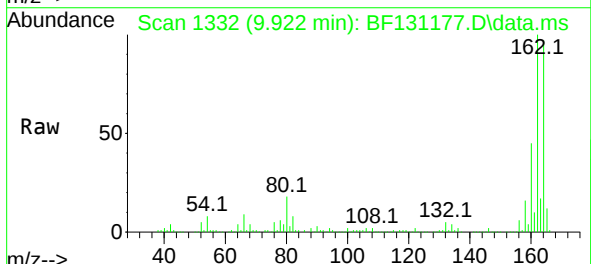
Manual Integrations  
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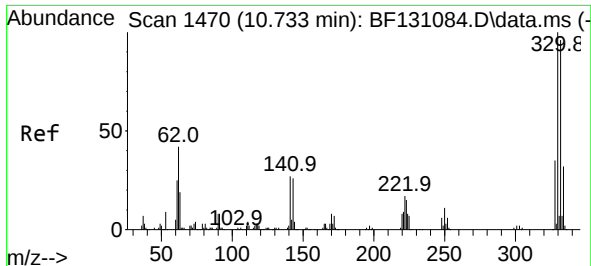
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1332  
Delta R.T. -0.000 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

Tgt Ion:164 Resp: 86848  
Ion Ratio Lower Upper  
164 100  
162 102.8 81.7 122.5  
160 46.0 37.4 56.2





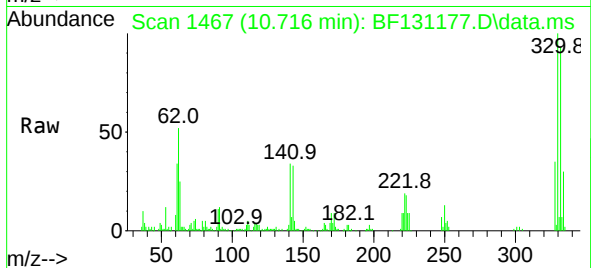
#42  
2,4,6-Tribromophenol  
Concen: 52.844 ng  
RT: 10.716 min Scan# 1470  
Delta R.T. 0.006 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

Instrument :

BNA\_F

ClientSampleId :

CL-1-110922



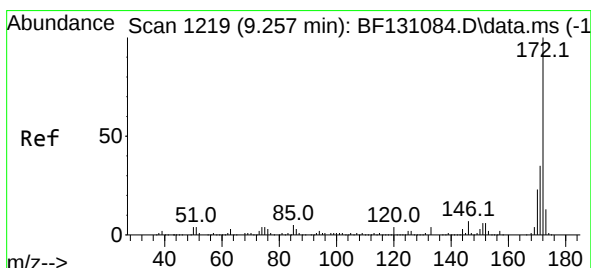
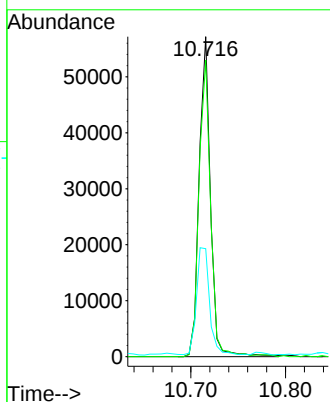
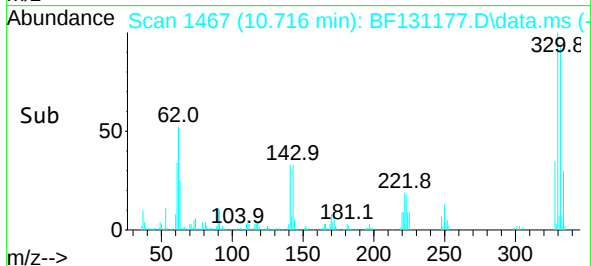
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Ion Ratio Lower Upper  
330 100  
332 95.2 77.0 115.4  
141 38.3 28.5 42.7

Manual Integrations

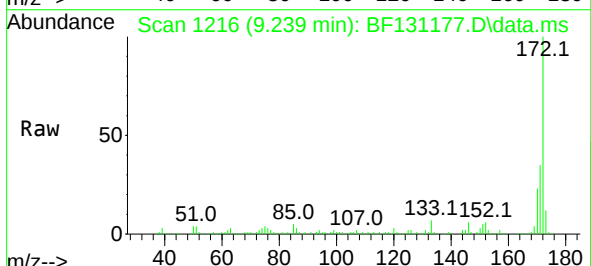
APPROVED

Reviewed By : Christian Giraldo 11/12/2022

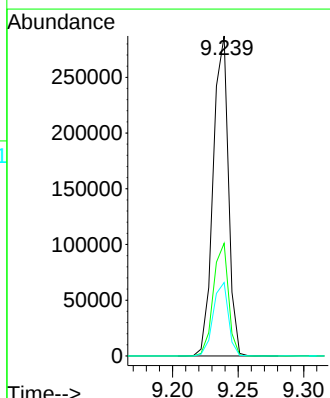
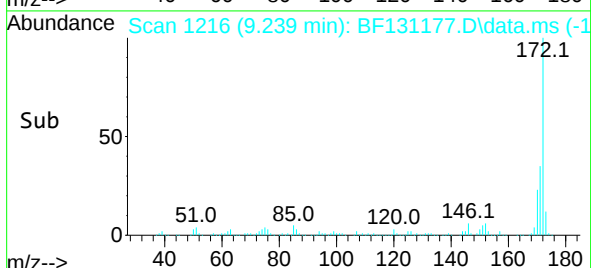
Supervised By : Jagrut Upadhyay 11/12/2022

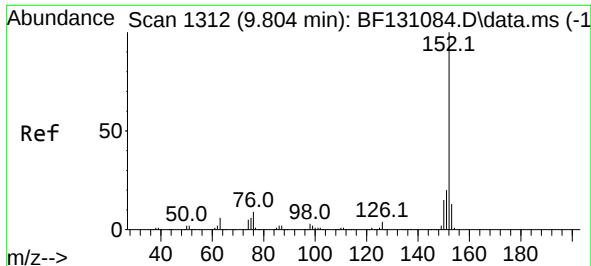


#45  
2-Fluorobiphenyl  
Concen: 37.292 ng  
RT: 9.239 min Scan# 1216  
Delta R.T. -0.000 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16



Tgt Ion: 172 Resp: 232003  
Ion Ratio Lower Upper  
172 100  
171 35.2 27.7 41.5  
170 22.9 18.8 28.2





#49

Acenaphthylene

Concen: 2.171 ng

RT: 9.780 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

Instrument :

BNA\_F

ClientSampleId :

CL-1-110922

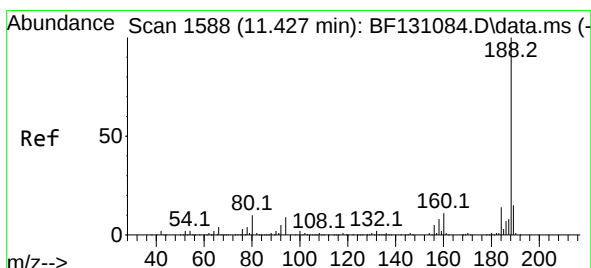
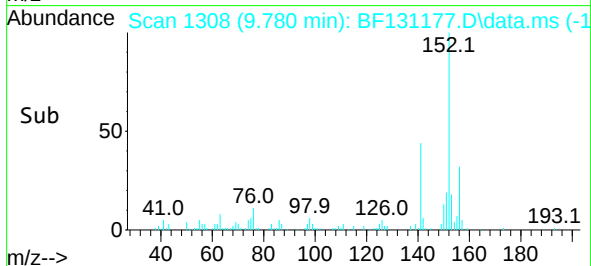
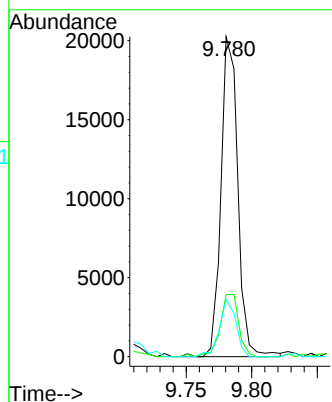
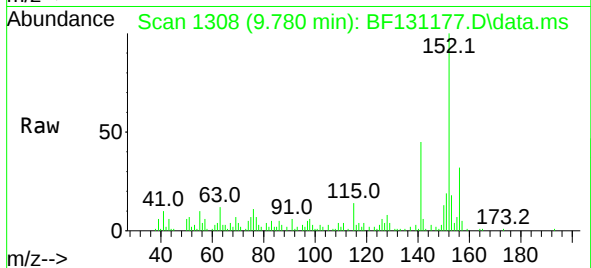
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 18074     |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 19.4  | 16.0 24.0 |
| 153         | 17.8  | 10.2 15.4 |

Manual Integrations

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#64

Phenanthrene-d10

Concen: 20.000 ng

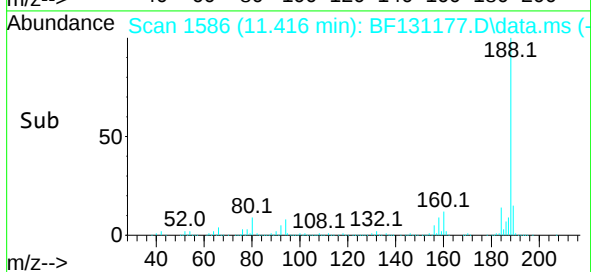
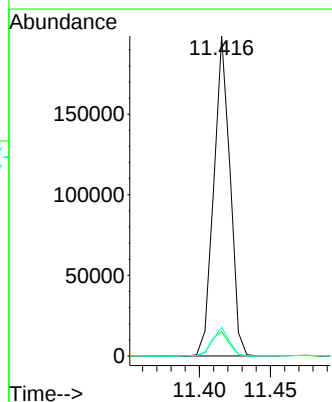
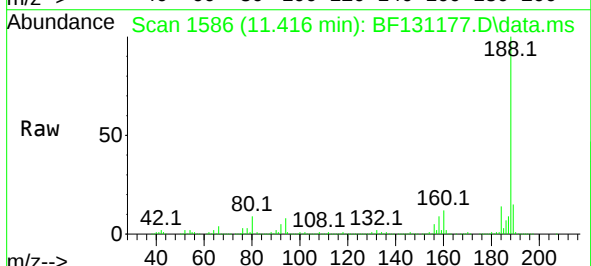
RT: 11.416 min Scan# 1586

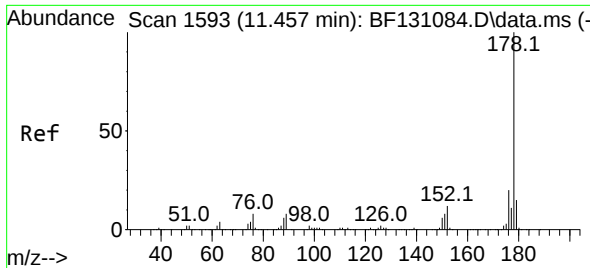
Delta R.T. 0.006 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

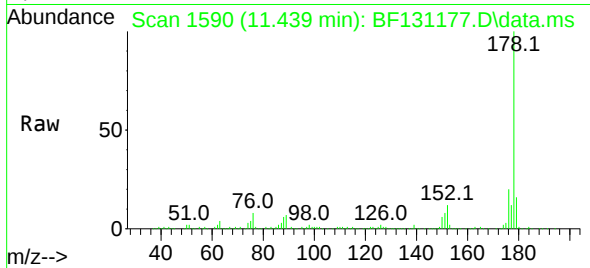
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 158303   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 7.7   | 7.0 10.6 |
| 80          | 8.9   | 7.9 11.9 |





#71  
Phenanthrene  
Concen: 10.170 ng  
RT: 11.439 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

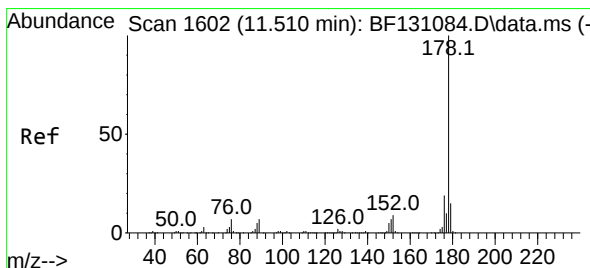
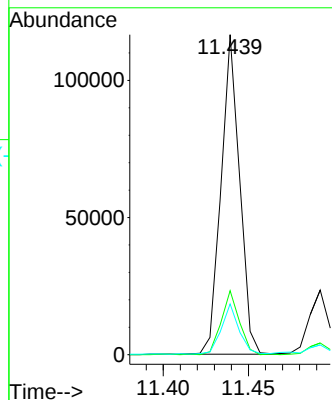
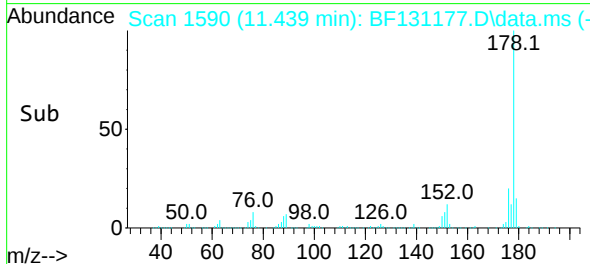
Instrument :  
BNA\_F  
ClientSampleId :  
CL-1-110922



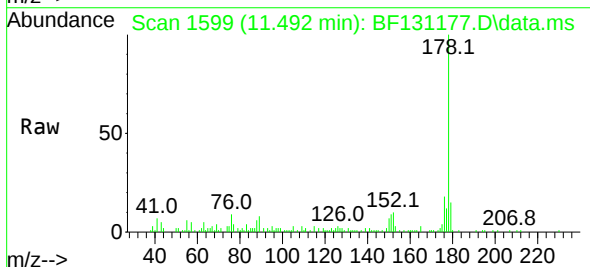
Tgt Ion:178 Resp: 88544  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.8 23.8  
179 15.9 12.2 18.2

Manual Integrations  
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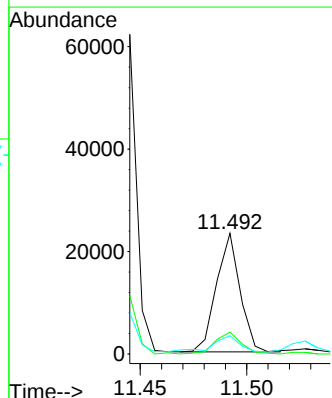
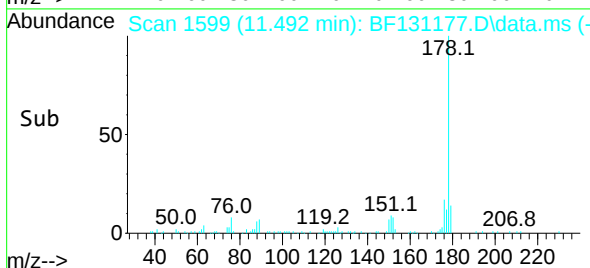
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

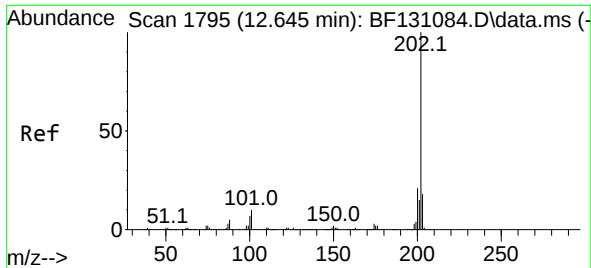


#72  
Anthracene  
Concen: 2.118 ng  
RT: 11.492 min Scan# 1599  
Delta R.T. 0.006 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16



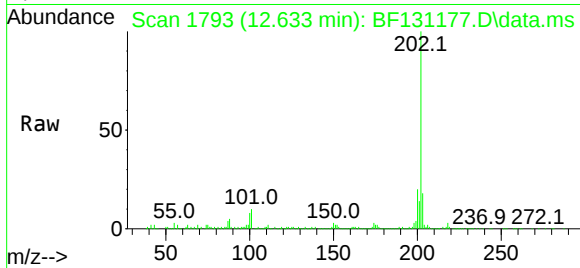
Tgt Ion:178 Resp: 17898  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.0 22.6  
179 15.2 11.8 17.8





#75  
Fluoranthene  
Concen: 11.345 ng  
RT: 12.633 min Scan# 1795  
Delta R.T. 0.006 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

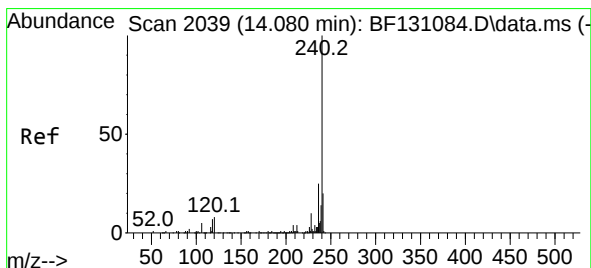
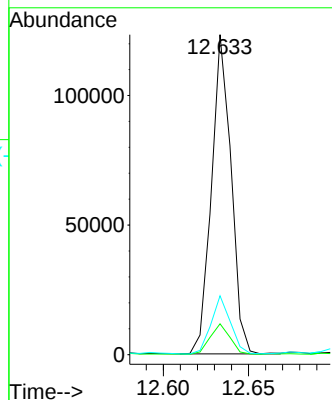
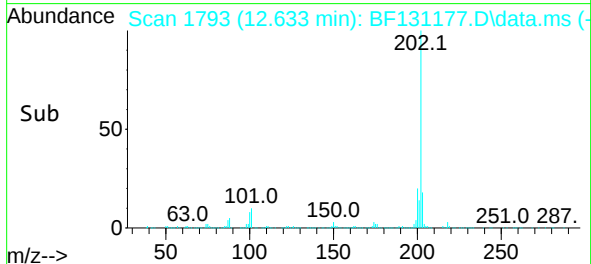
Instrument :  
BNA\_F  
ClientSampleId :  
CL-1-110922



Tgt Ion:202 Resp: 98869  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 30.0  
203 18.4 0.0 37.7

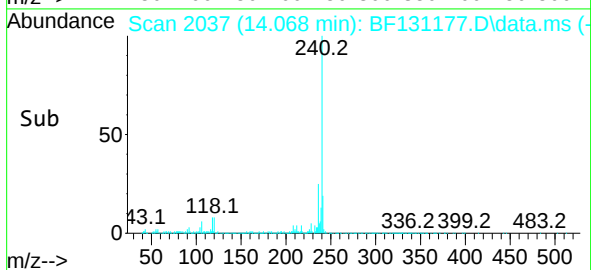
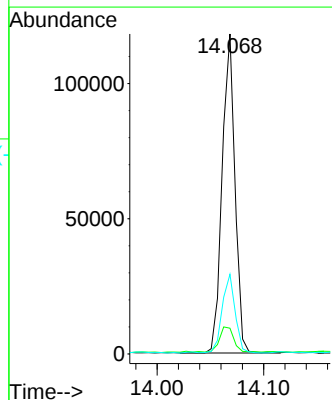
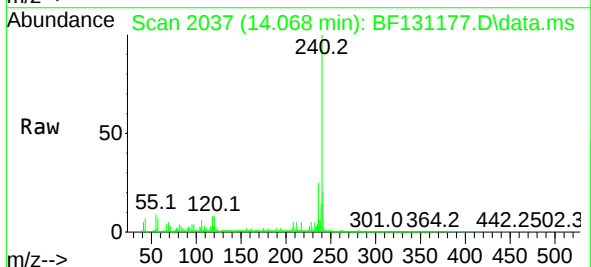
Manual Integrations  
APPROVED

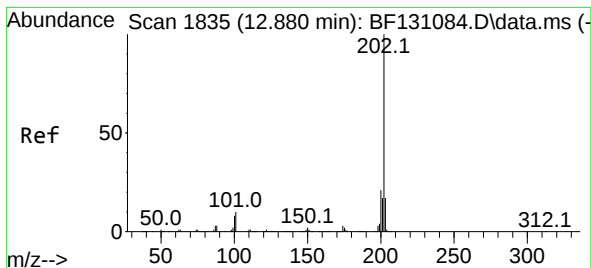
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.068 min Scan# 2037  
Delta R.T. 0.012 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

Tgt Ion:240 Resp: 98658  
Ion Ratio Lower Upper  
240 100  
120 8.0 6.5 9.7  
236 24.9 19.7 29.5





#78

Pyrene

Concen: 10.604 ng

RT: 12.863 min Scan# 1832

Delta R.T. 0.006 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

Instrument :

BNA\_F

ClientSampleId :

CL-1-110922

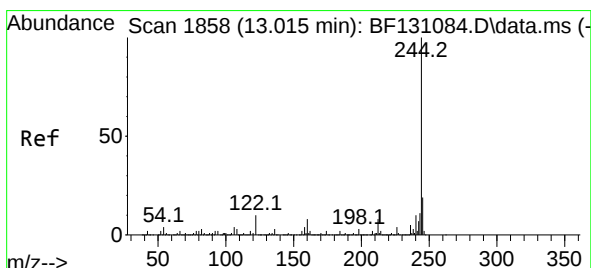
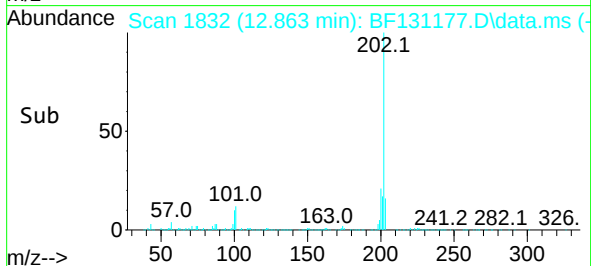
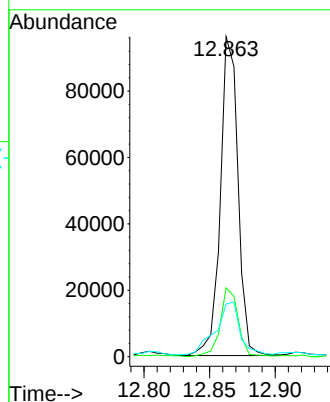
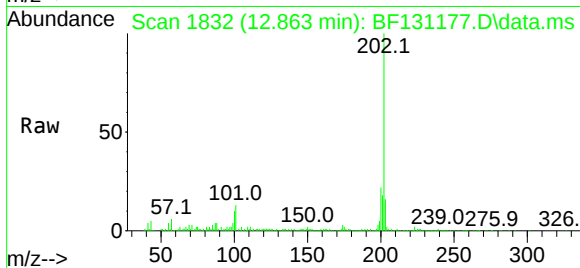
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 89754 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.5  | 16.8  | 25.2  |
| 203       | 16.4  | 13.6  | 20.4  |

Manual Integrations

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Reviewed By :Christian Giraldo 11/12/2022

Supervised By :Jagrut Upadhyay 11/12/2022



#79

Terphenyl-d14

Concen: 41.566 ng

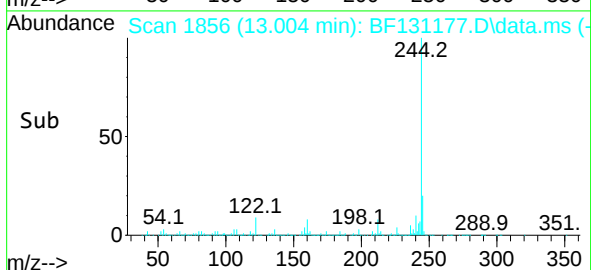
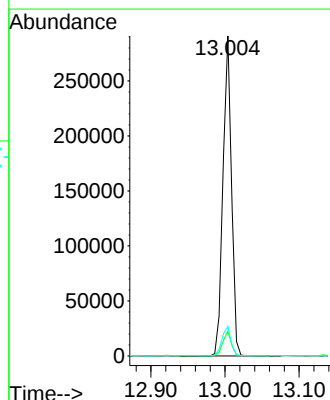
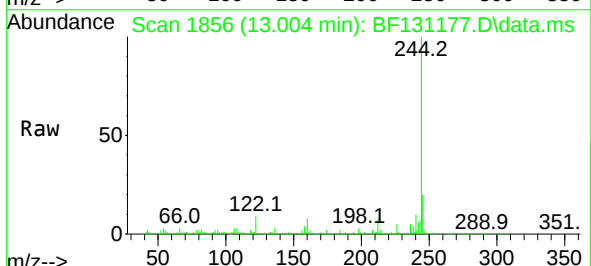
RT: 13.004 min Scan# 1856

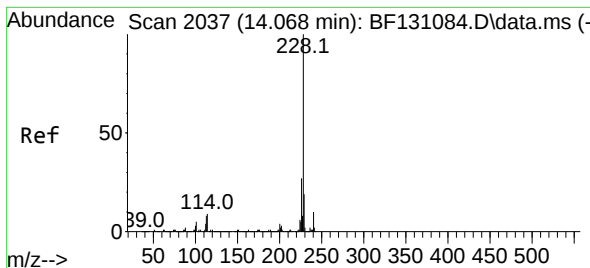
Delta R.T. 0.006 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 233887 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.7   | 6.2   | 9.2    |
| 122       | 9.2   | 7.8   | 11.8   |





#81

Benzo(a)anthracene

Concen: 5.410 ng

RT: 14.057 min Scan# 2035

Delta R.T. 0.012 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

Instrument :

BNA\_F

ClientSampleId :

CL-1-110922

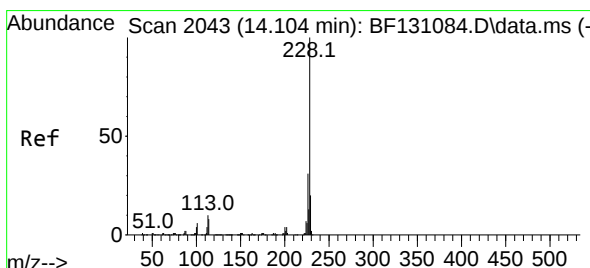
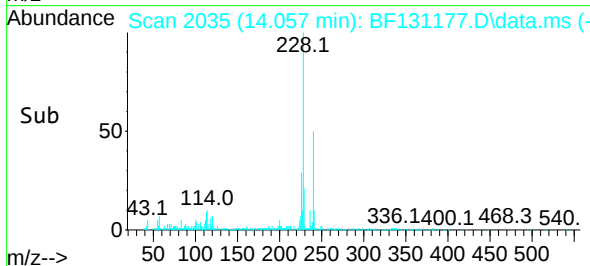
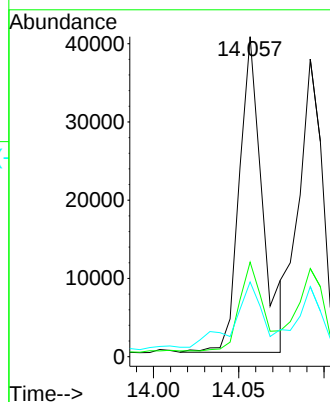
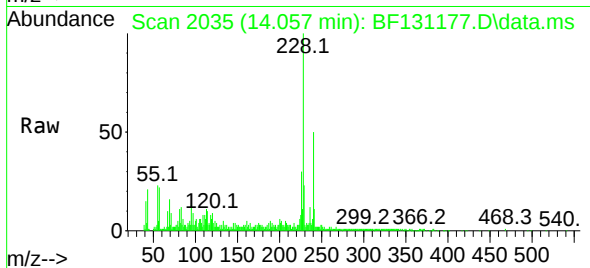
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 3815 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 29.6  | 21.8  | 32.6 |
| 229       | 23.4  | 15.4  | 23.2 |

Manual Integrations

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Reviewed By :Christian Giraldo 11/12/2022

Supervised By :Jagrut Upadhyay 11/12/2022



#83

Chrysene

Concen: 5.463 ng

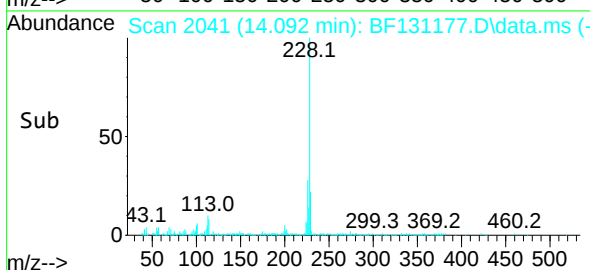
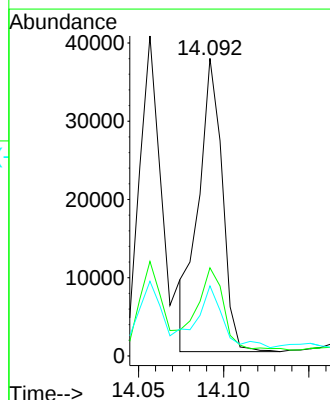
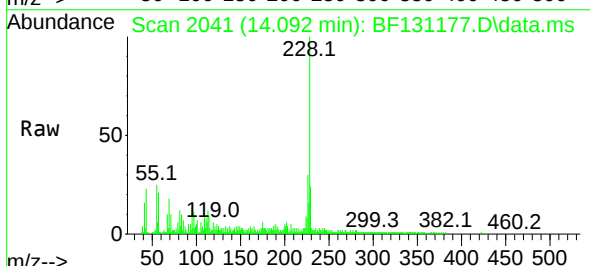
RT: 14.092 min Scan# 2041

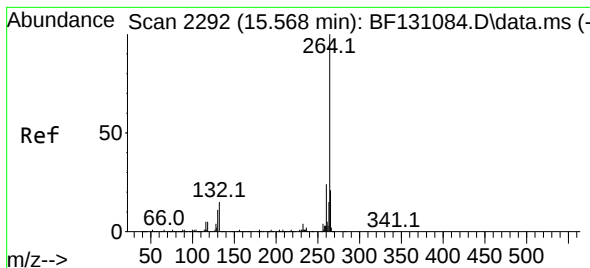
Delta R.T. 0.006 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

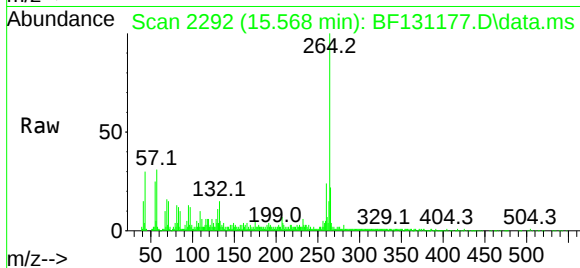
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 36384 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.6  | 24.4  | 36.6  |
| 229       | 23.6  | 15.8  | 23.6  |





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.568 min Scan# 21  
Delta R.T. 0.023 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16

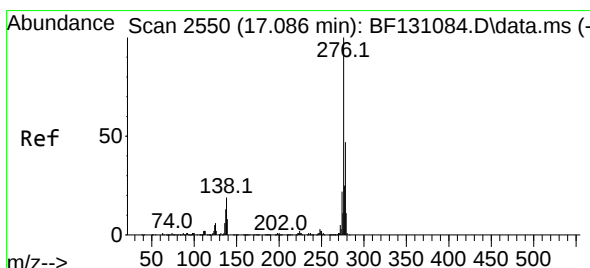
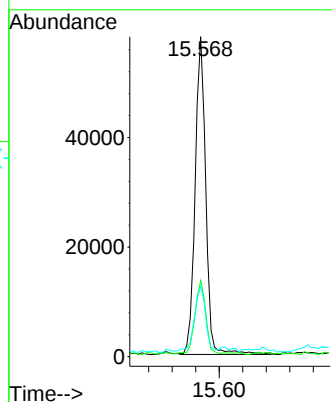
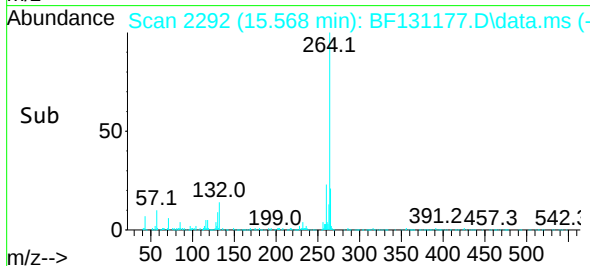
Instrument :  
BNA\_F  
ClientSampleId :  
CL-1-110922



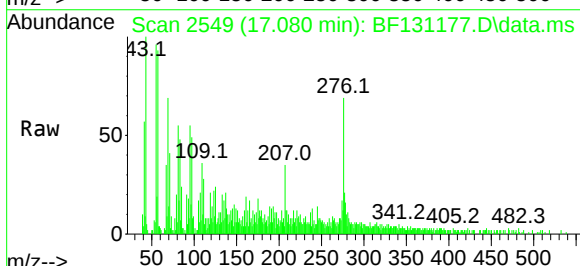
Tgt Ion:264 Resp: 73010  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.1 28.7  
265 22.0 16.7 25.1

Manual Integrations  
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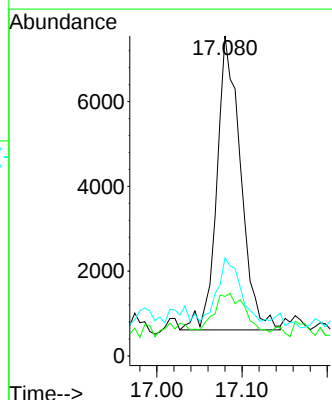
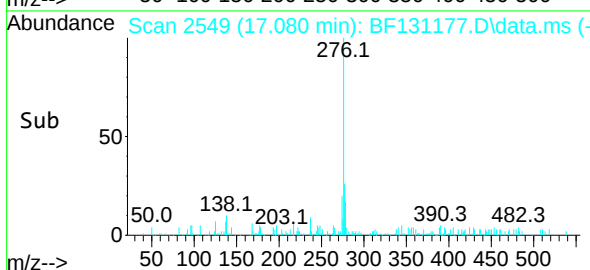
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

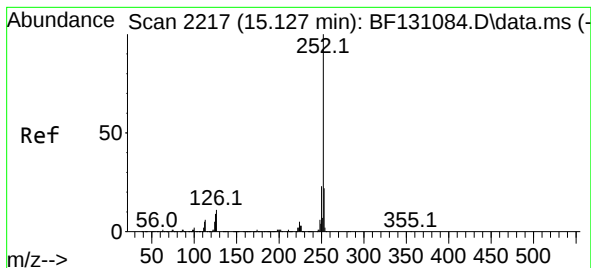


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.935 ng  
RT: 17.080 min Scan# 2549  
Delta R.T. 0.023 min  
Lab File: BF131177.D  
Acq: 12 Nov 2022 04:16



Tgt Ion:276 Resp: 13449  
Ion Ratio Lower Upper  
276 100  
138 16.6 16.9 25.3#  
277 21.9 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 9.175 ng m

RT: 15.127 min Scan# 21

Delta R.T. 0.023 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

Instrument :

BNF

ClientSampleId :

CL-1-110922

Tgt Ion:252 Resp: 47358

Ion Ratio Lower Upper

252 100

253 28.9 17.3 25.9#

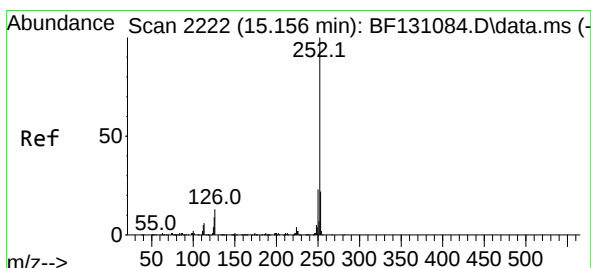
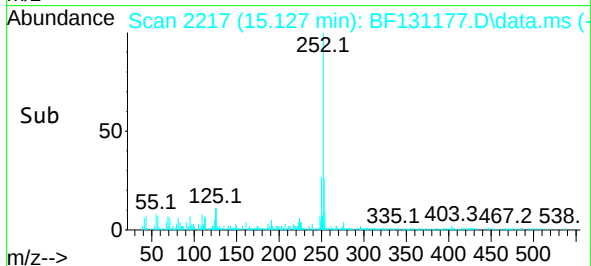
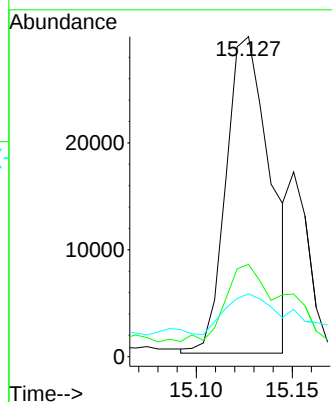
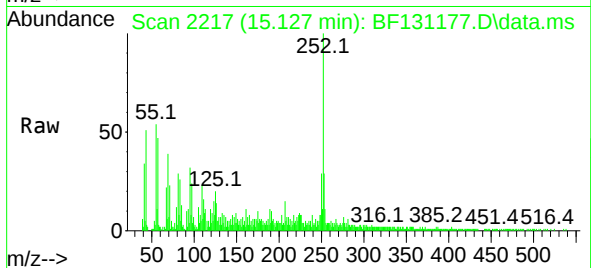
125 19.7 7.2 10.8#

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/12/2022

Supervised By :Jagrut Upadhyay 11/12/2022



#89

Benzo(k)fluoranthene

Concen: 2.710 ng m

RT: 15.151 min Scan# 2221

Delta R.T. 0.012 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

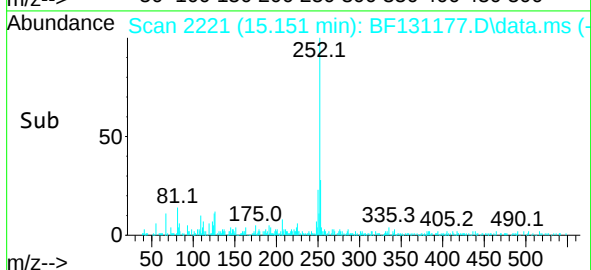
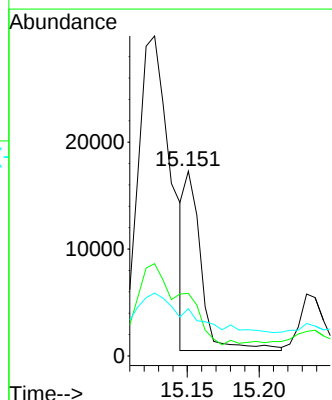
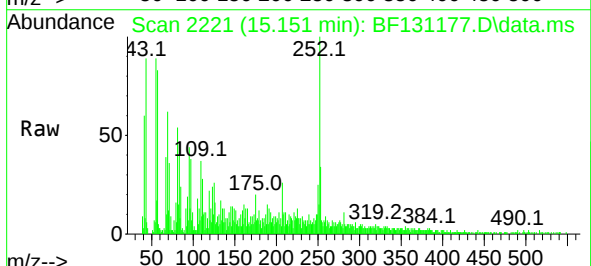
Tgt Ion:252 Resp: 13443

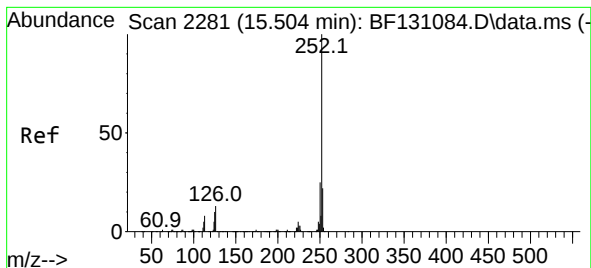
Ion Ratio Lower Upper

252 100

253 33.9 17.6 26.4#

125 25.6 7.5 11.3#





#90

Benzo(a)pyrene

Concen: 5.378 ng

RT: 15.504 min Scan# 2281

Delta R.T. 0.023 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

Instrument :

BNA\_F

ClientSampleId :

CL-1-110922

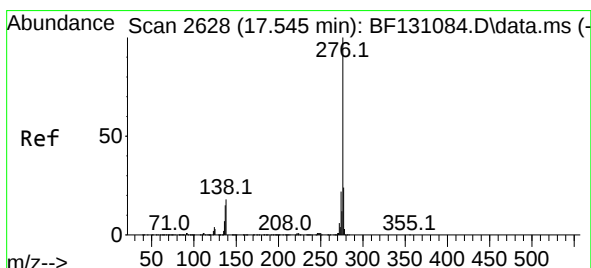
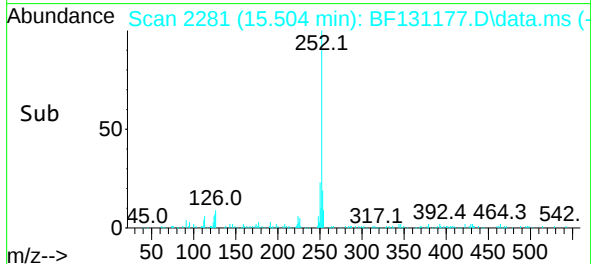
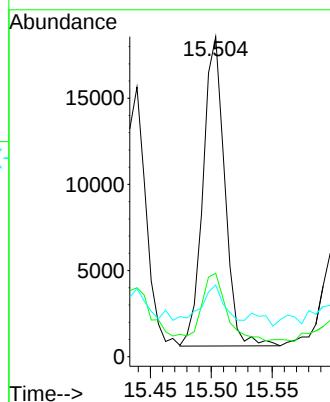
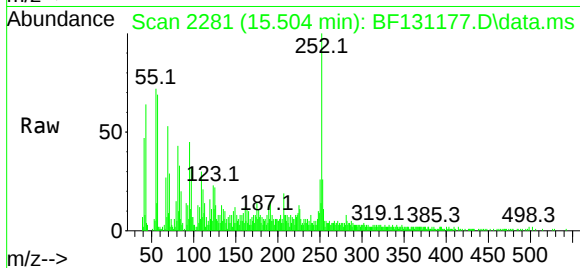
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2225 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 26.0  | 17.8  | 26.8 |
| 125       | 22.4  | 8.1   | 12.1 |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/12/2022

Supervised By :Jagrut Upadhyay 11/12/2022



#92

Benzo(g,h,i)perylene

Concen: 6.818 ng

RT: 17.545 min Scan# 2628

Delta R.T. 0.029 min

Lab File: BF131177.D

Acq: 12 Nov 2022 04:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 13850 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 30.1  | 19.0  | 28.4# |
| 138       | 24.2  | 14.6  | 21.8# |

