

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF111022\  
 Data File : BF131137.D  
 Acq On : 10 Nov 2022 22:43  
 Operator : CG\JU  
 Sample : N5494-09  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-15

Manual Integrations  
 APPROVED

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

Quant Time: Nov 11 00:52:12 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF110922.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 10 04:15:17 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.887  | 152  | 59284    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.175  | 136  | 201656   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.933  | 164  | 90376    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.422 | 188  | 149469   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.074 | 240  | 136465   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.568 | 264  | 111286   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 372940   | 106.981 | ng    | 0.00     |
| 7) Phenol-d6                | 6.516  | 99   | 481209   | 105.585 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.451  | 82   | 305079   | 68.259  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.722 | 330  | 85374    | 91.406  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.251  | 172  | 445775   | 68.856  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.010 | 244  | 384096   | 49.349  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.445 | 178  | 33392    | 4.062   | ng    | 99       |
| 75) Fluoranthene            | 12.639 | 202  | 69689    | 8.469   | ng    | 98       |
| 78) Pyrene                  | 12.874 | 202  | 113387   | 9.685   | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.063 | 228  | 69076    | 7.082   | ng    | 95       |
| 83) Chrysene                | 14.098 | 228  | 65849    | 7.148   | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.080 | 276  | 19131    | 5.797   | ng    | # 93     |
| 88) Benzo(b)fluoranthene    | 15.127 | 252  | 57131m   | 7.261   | ng    |          |
| 90) Benzo(a)pyrene          | 15.504 | 252  | 44931    | 7.123   | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 17.086 | 278  | 6225     | 4.615   | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 17.539 | 276  | 21713m   | 6.888   | ng    |          |
| -----                       |        |      |          |         |       |          |

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

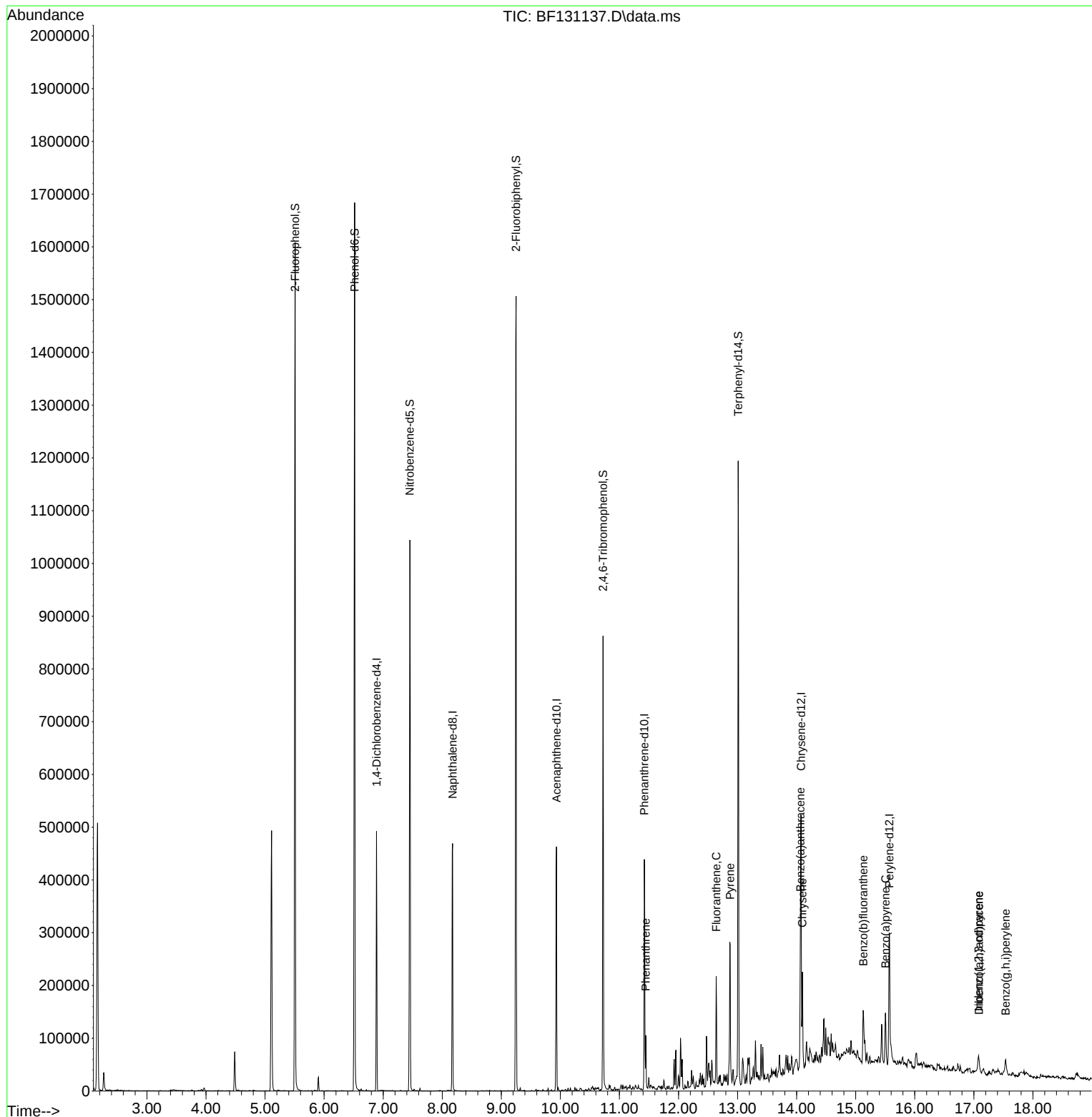
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF111022\  
Data File : BF131137.D  
Acq On : 10 Nov 2022 22:43  
Operator : CG\JU  
Sample : N5494-09  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

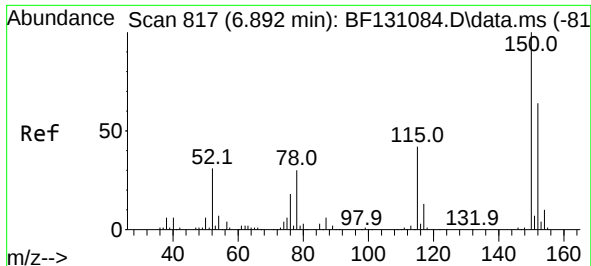
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Nov 11 00:52:12 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF110922.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 10 04:15:17 2022  
Response via : Initial Calibration

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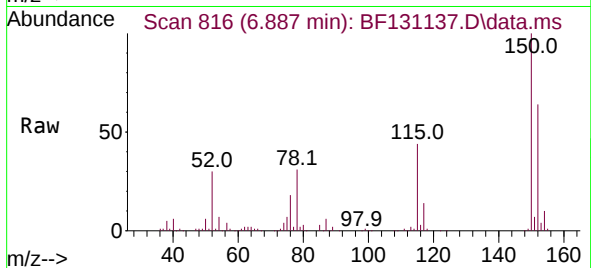
Reviewed By : Christian Giraldo 11/11/2022  
Supervised By : Jagrut Upadhyay 11/11/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 81  
Delta R.T. -0.005 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

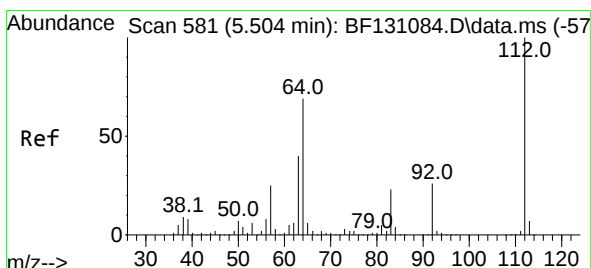
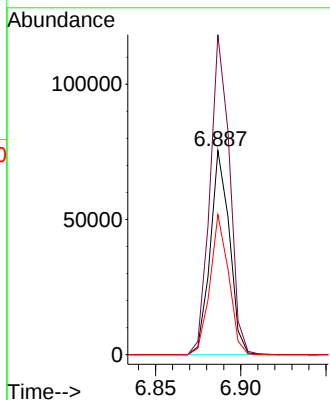
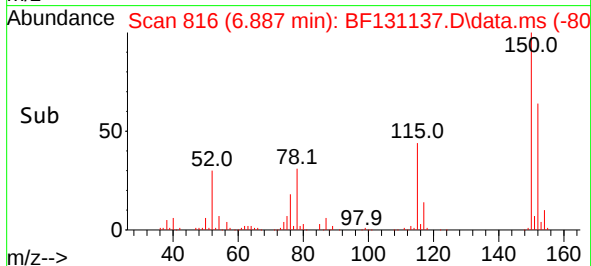
Instrument :  
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ClientSampleId :  
SB-15



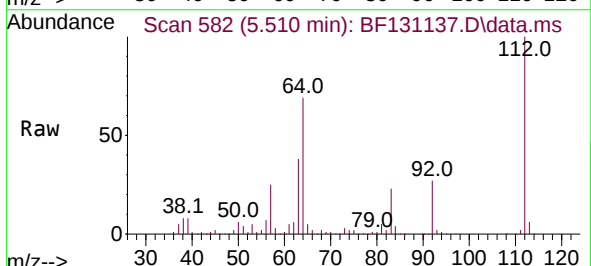
Tgt Ion:152 Resp: 59284  
Ion Ratio Lower Upper  
152 100  
150 156.8 125.5 188.3  
115 68.6 52.2 78.2

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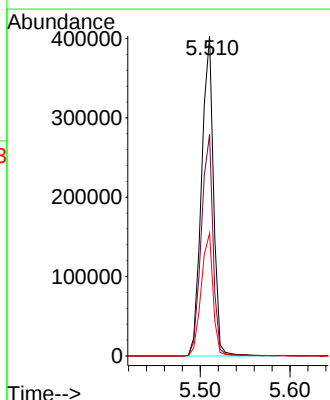
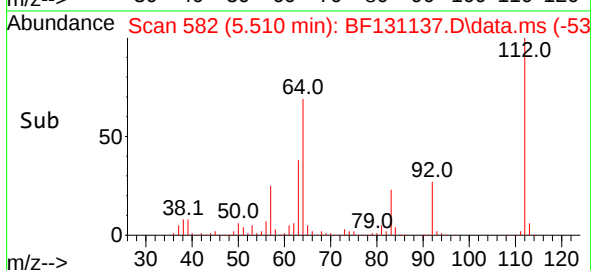
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022

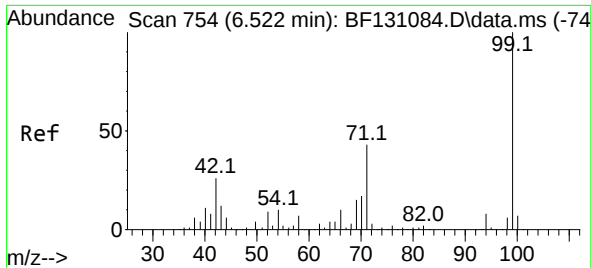


#5  
2-Fluorophenol  
Concen: 106.981 ng  
RT: 5.510 min Scan# 582  
Delta R.T. 0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43



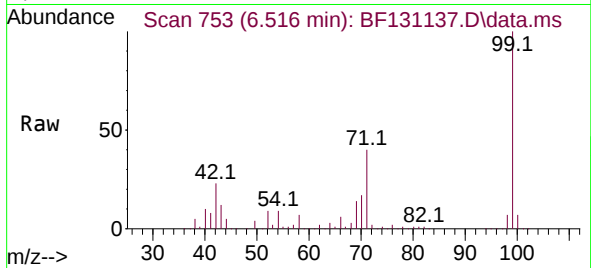
Tgt Ion:112 Resp: 372940  
Ion Ratio Lower Upper  
112 100  
64 69.2 55.1 82.7  
63 38.3 32.4 48.6





#7  
Phenol-d6  
Concen: 105.585 ng  
RT: 6.516 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

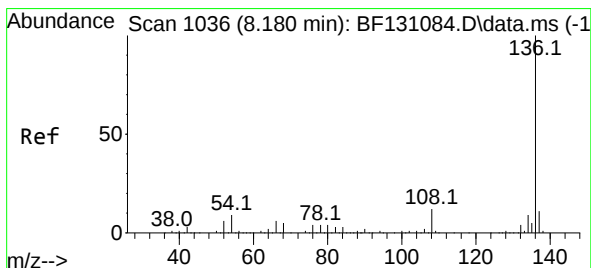
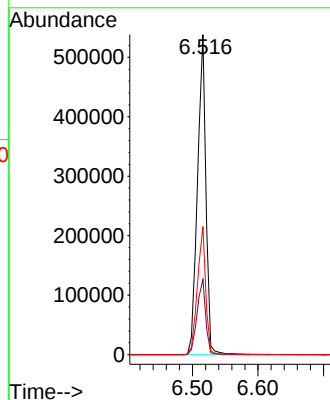
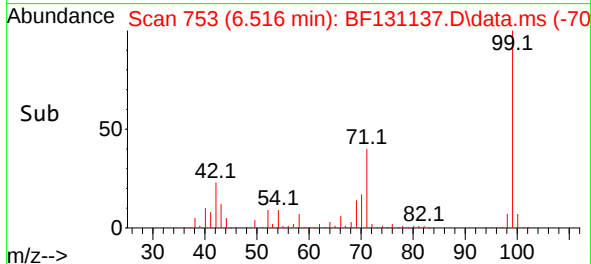
Instrument :  
BNA\_F  
ClientSampleId :  
SB-15



Tgt Ion: 99 Resp: 481209  
Ion Ratio Lower Upper  
99 100  
42 23.5 20.8 31.2  
71 40.0 34.2 51.4

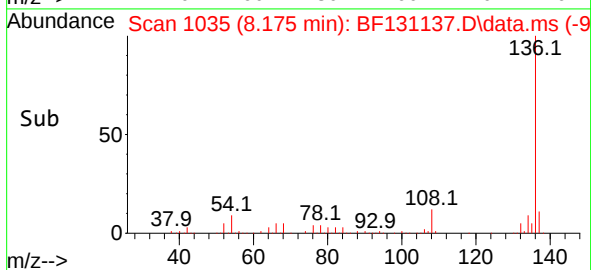
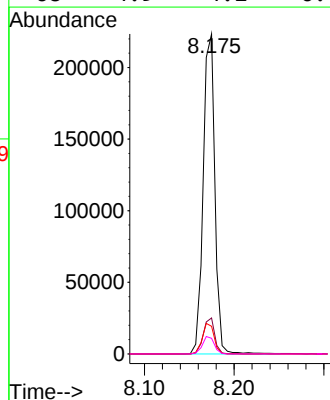
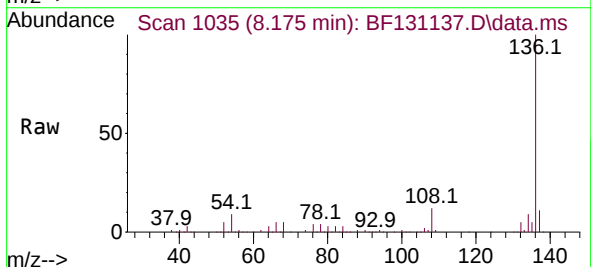
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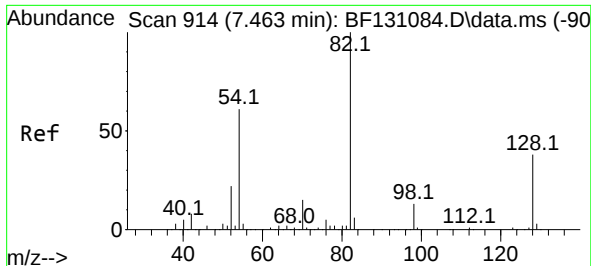
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.175 min Scan# 1035  
Delta R.T. -0.005 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

Tgt Ion:136 Resp: 201656  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.6 12.8  
54 8.6 7.2 10.8  
68 4.9 4.2 6.4





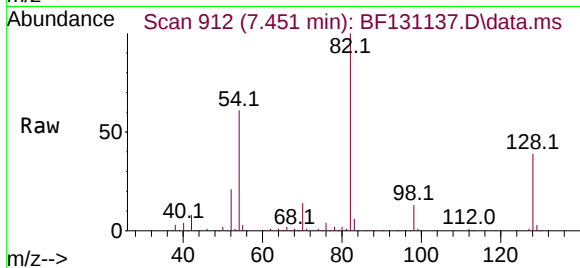
#23  
Nitrobenzene-d5  
Concen: 68.259 ng  
RT: 7.451 min Scan# 914  
Delta R.T. -0.012 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

Instrument :

BNA\_F

ClientSampleId :

SB-15

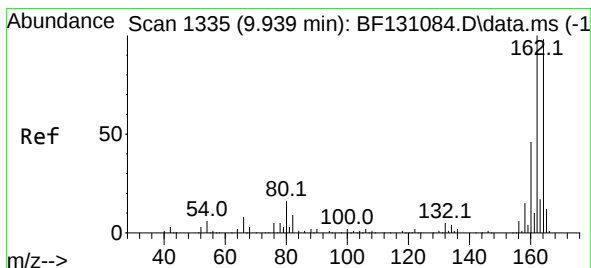
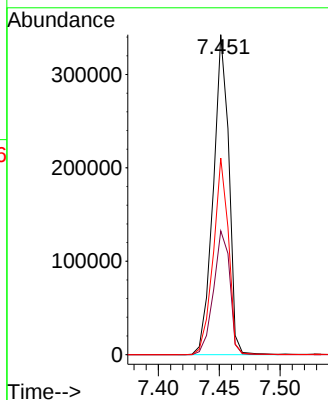
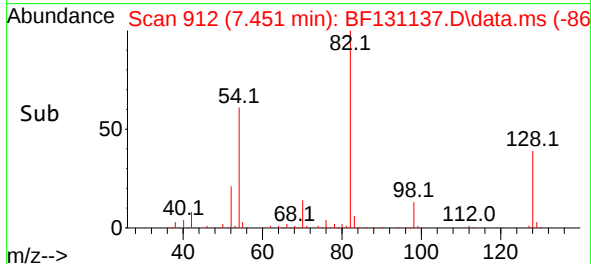


Tgt Ion: 82 Resp: 305079  
Ion Ratio Lower Upper  
82 100  
128 38.7 30.5 45.7  
54 61.4 49.1 73.7

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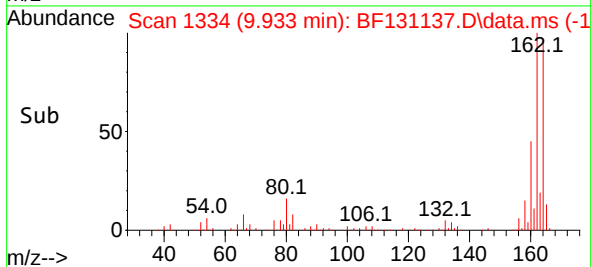
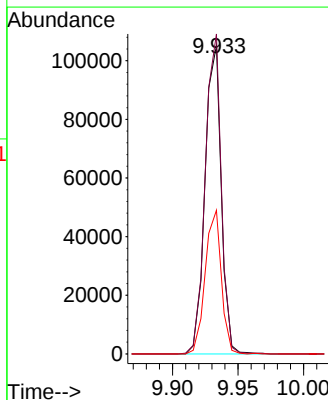
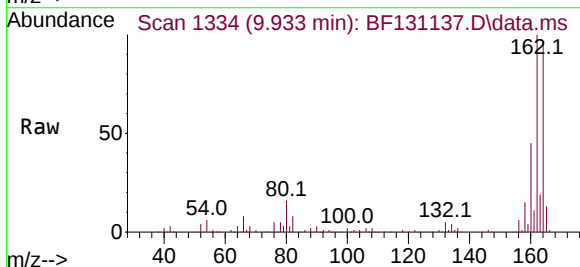
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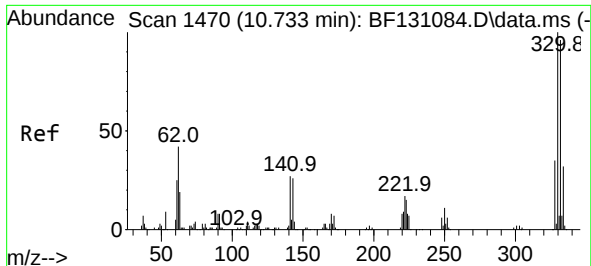
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.933 min Scan# 1334  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

Tgt Ion:164 Resp: 90376  
Ion Ratio Lower Upper  
164 100  
162 103.7 81.7 122.5  
160 46.5 37.4 56.2





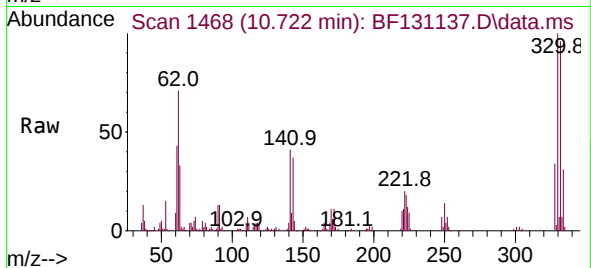
#42  
2,4,6-Tribromophenol  
Concen: 91.406 ng  
RT: 10.722 min Scan# 1470  
Delta R.T. -0.012 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

Instrument :

BNA\_F

ClientSampleId :

SB-15

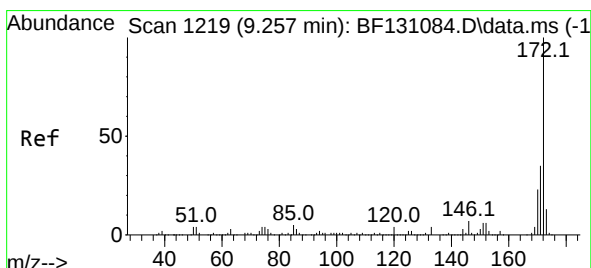
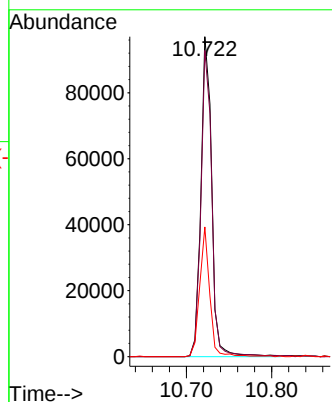
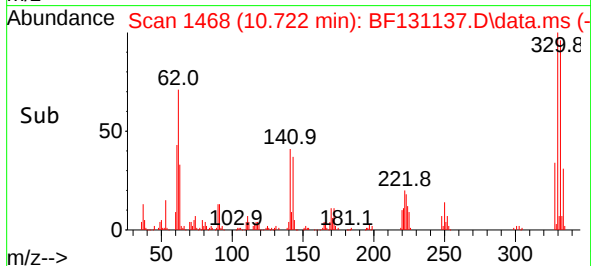


Tgt Ion: 330 Resp: 85374  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.0 115.4  
141 37.7 28.5 42.7

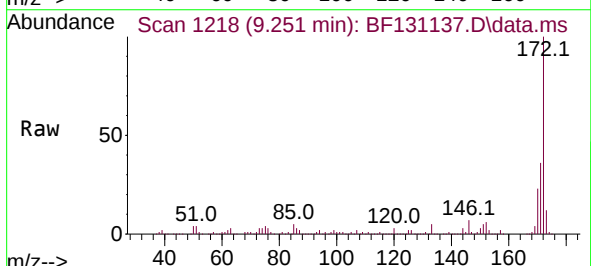
Manual Integrations

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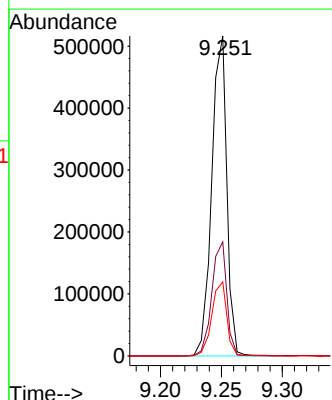
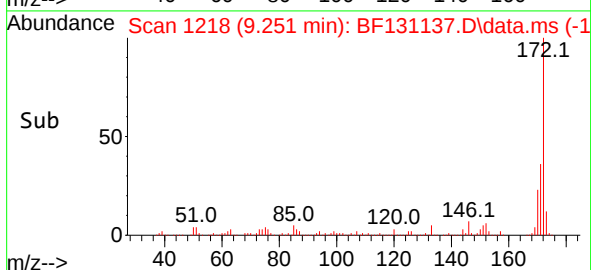
Reviewed By : Christian Giraldo 11/11/2022  
Supervised By : Jagrut Upadhyay 11/11/2022

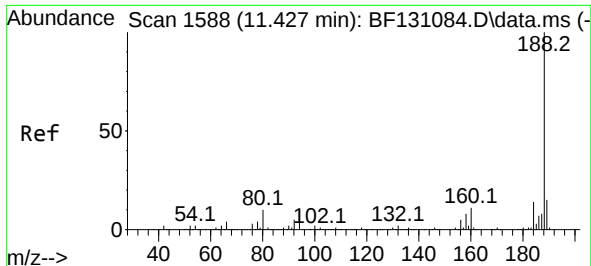


#45  
2-Fluorobiphenyl  
Concen: 68.856 ng  
RT: 9.251 min Scan# 1218  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43



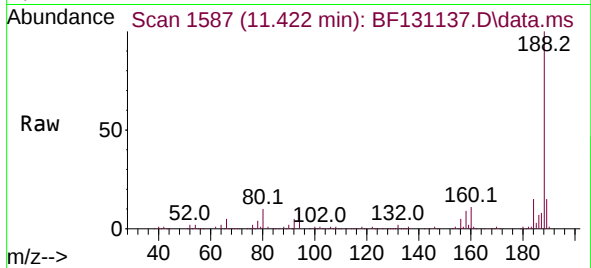
Tgt Ion: 172 Resp: 445775  
Ion Ratio Lower Upper  
172 100  
171 35.6 27.7 41.5  
170 23.1 18.8 28.2





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.422 min Scan# 1588  
Delta R.T. -0.005 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

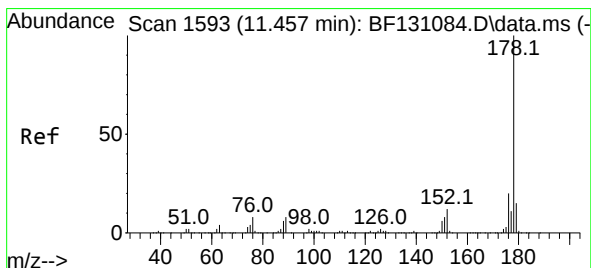
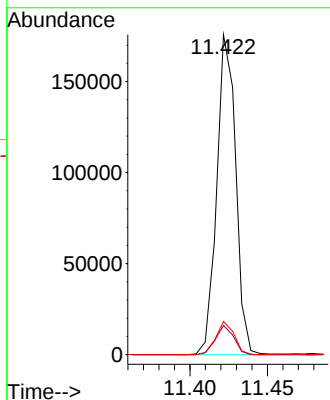
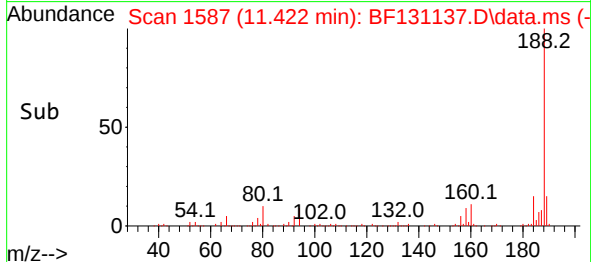
Instrument :  
BNA\_F  
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SB-15



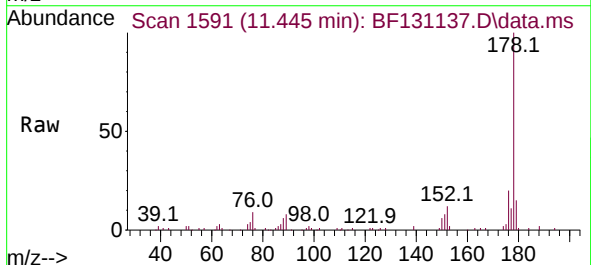
Tgt Ion:188 Resp: 149469  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.0 10.6  
80 10.4 7.9 11.9

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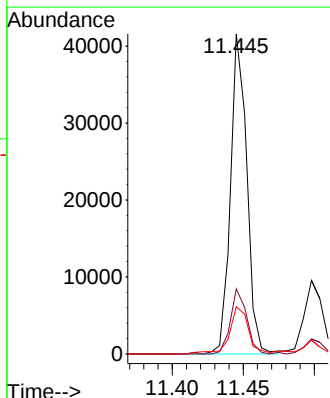
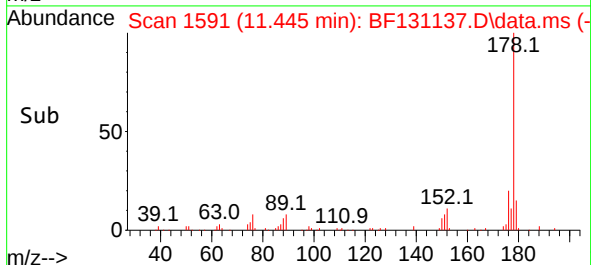
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022

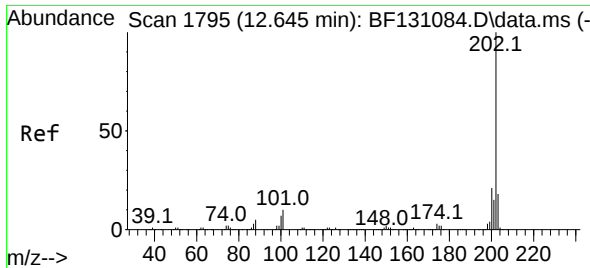


#71  
Phenanthrene  
Concen: 4.062 ng  
RT: 11.445 min Scan# 1591  
Delta R.T. -0.012 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43



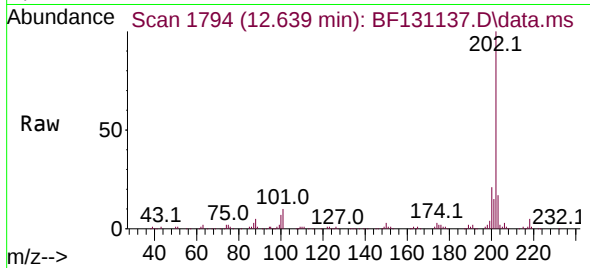
Tgt Ion:178 Resp: 33392  
Ion Ratio Lower Upper  
178 100  
176 20.3 15.8 23.8  
179 14.7 12.2 18.2





#75  
Fluoranthene  
Concen: 8.469 ng  
RT: 12.639 min Scan# 1794  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

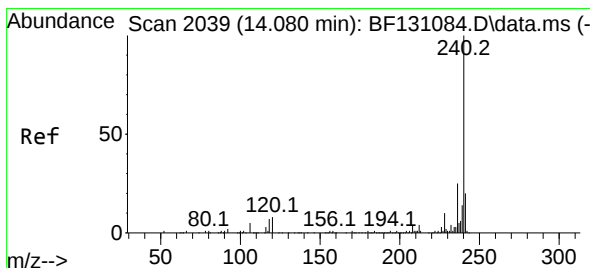
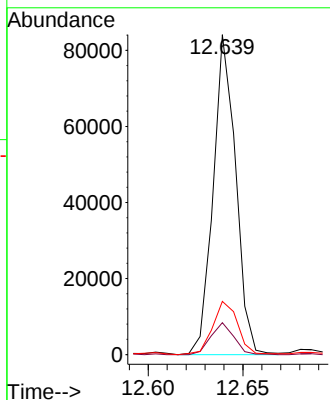
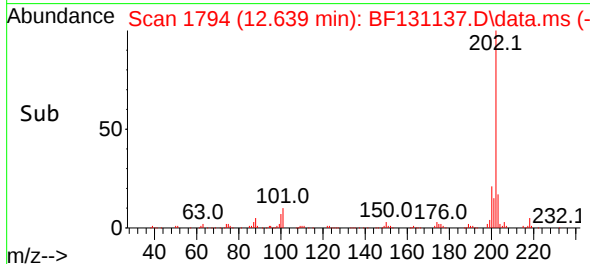
Instrument :  
BNA\_F  
ClientSampleId :  
SB-15



Tgt Ion:202 Resp: 69689  
Ion Ratio Lower Upper  
202 100  
101 10.0 0.0 30.0  
203 16.6 0.0 37.7

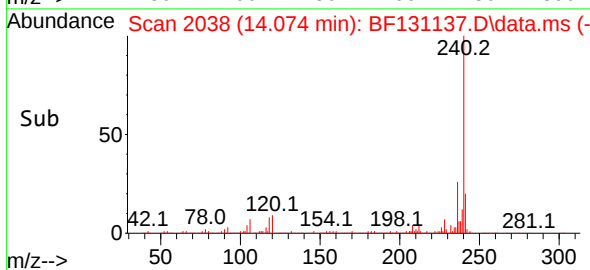
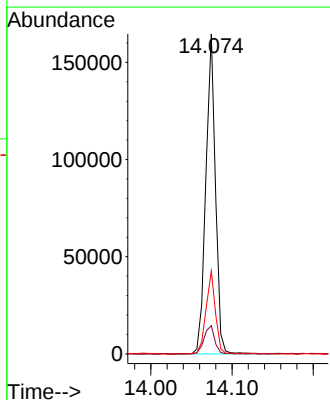
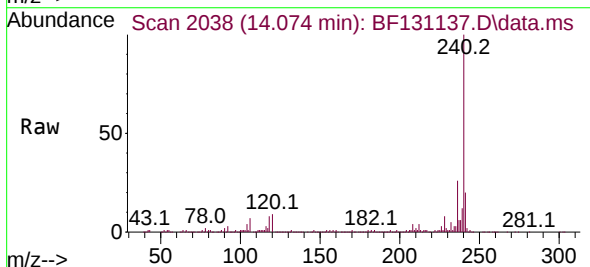
Manual Integrations  
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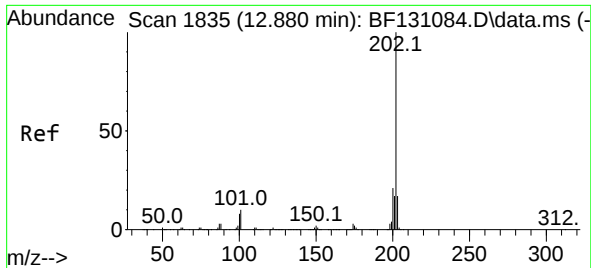
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.074 min Scan# 2038  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

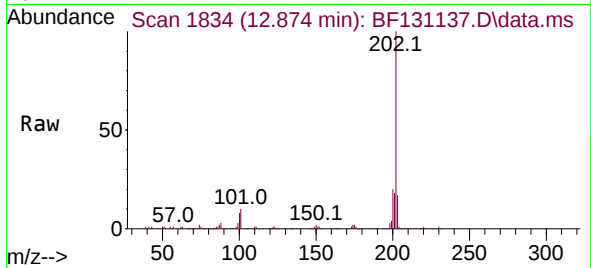
Tgt Ion:240 Resp: 136465  
Ion Ratio Lower Upper  
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120 8.8 6.5 9.7  
236 25.9 19.7 29.5





#78  
 Pyrene  
 Concen: 9.685 ng  
 RT: 12.874 min Scan# 1834  
 Delta R.T. -0.006 min  
 Lab File: BF131137.D  
 Acq: 10 Nov 2022 22:43

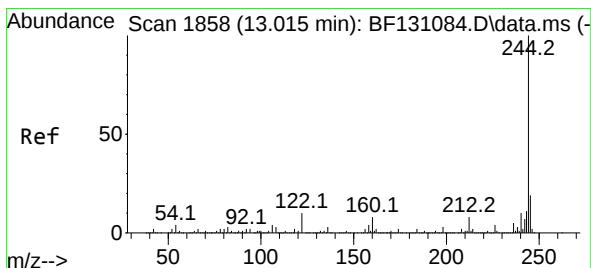
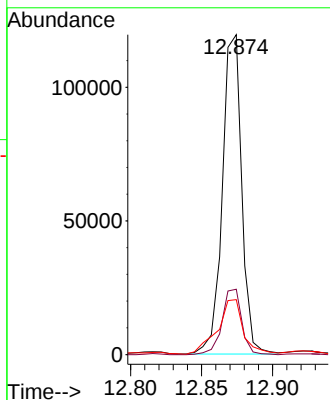
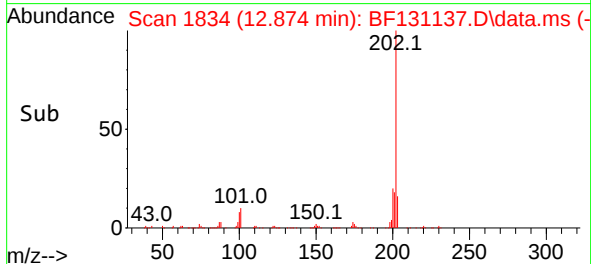
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-15



Tgt Ion:202 Resp: 11338  
 Ion Ratio Lower Upper  
 202 100  
 200 20.5 16.8 25.2  
 203 17.2 13.6 20.4

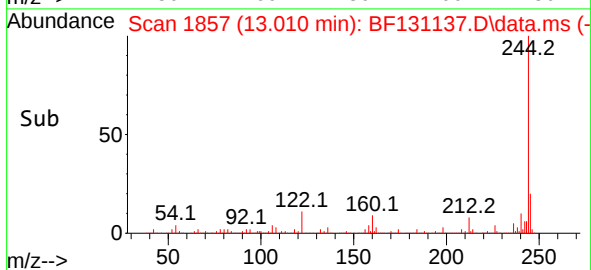
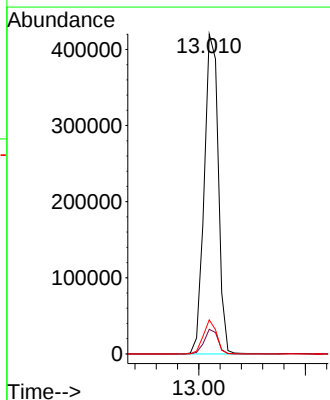
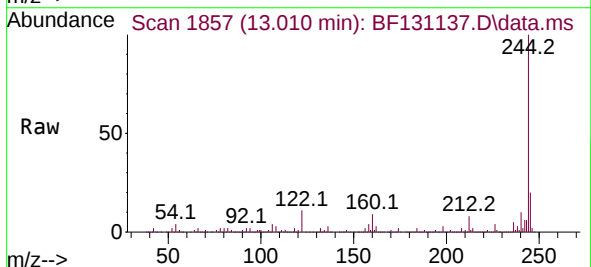
Manual Integrations  
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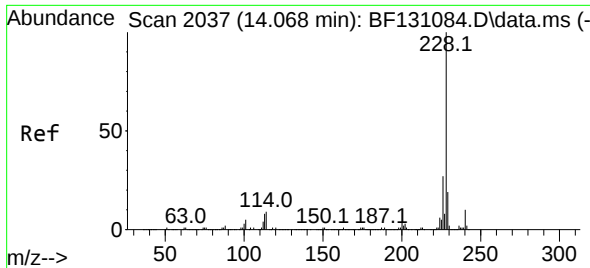
Reviewed By :Christian Giraldo 11/11/2022  
 Supervised By :Jagrut Upadhyay 11/11/2022



#79  
 Terphenyl-d14  
 Concen: 49.349 ng  
 RT: 13.010 min Scan# 1857  
 Delta R.T. -0.005 min  
 Lab File: BF131137.D  
 Acq: 10 Nov 2022 22:43

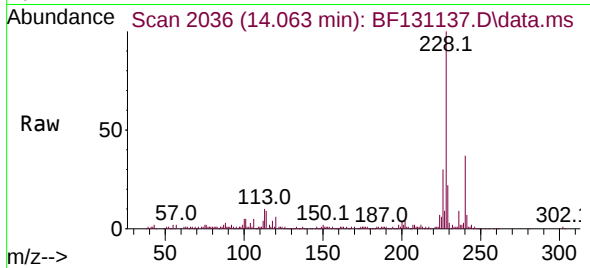
Tgt Ion:244 Resp: 384096  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.2 9.2  
 122 10.6 7.8 11.8





#81  
Benzo(a)anthracene  
Concen: 7.082 ng  
RT: 14.063 min Scan# 2037  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

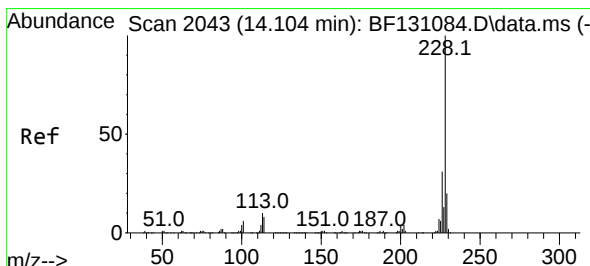
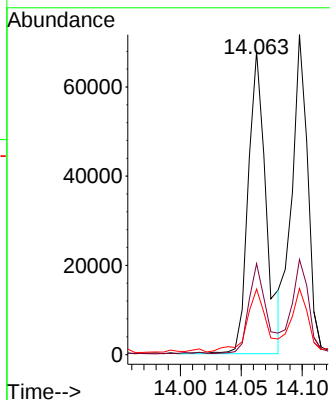
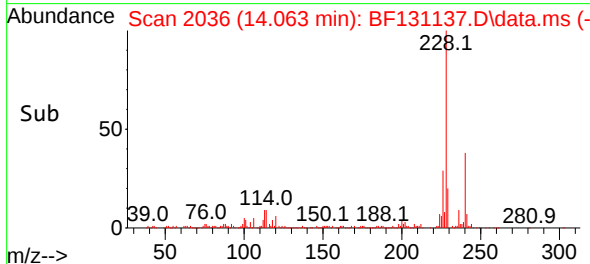
Instrument :  
BNA\_F  
ClientSampleId :  
SB-15



Tgt Ion:228 Resp: 69076  
Ion Ratio Lower Upper  
228 100  
226 30.0 21.8 32.6  
229 21.6 15.4 23.2

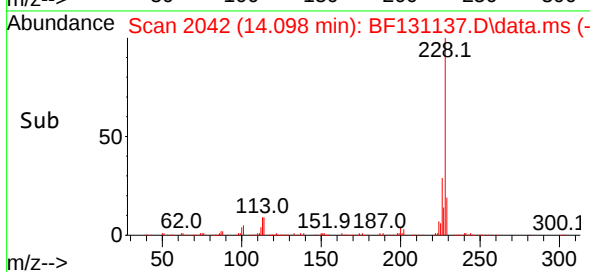
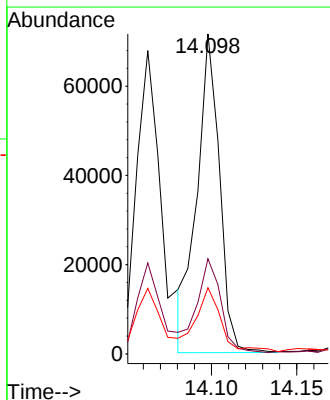
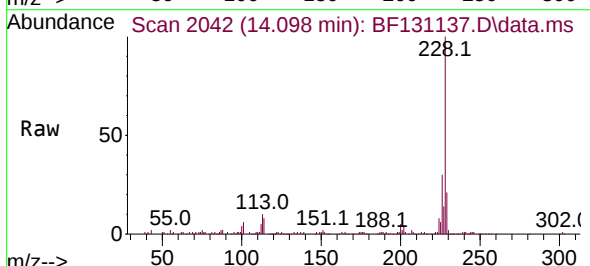
Manual Integrations  
APPROVED

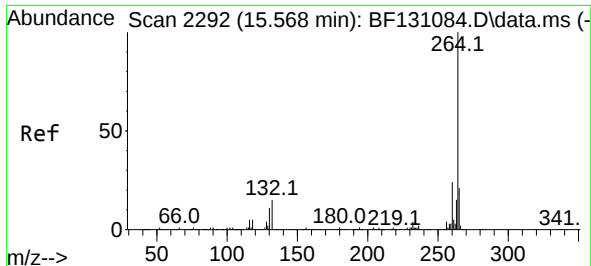
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#83  
Chrysene  
Concen: 7.148 ng  
RT: 14.098 min Scan# 2042  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

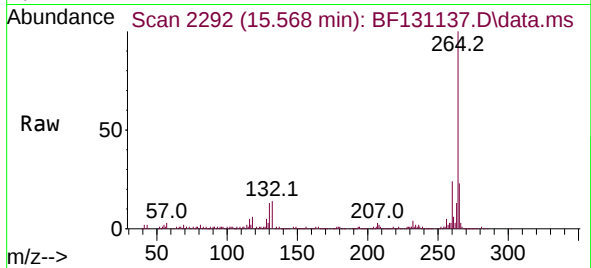
Tgt Ion:228 Resp: 65849  
Ion Ratio Lower Upper  
228 100  
226 29.7 24.4 36.6  
229 20.7 15.8 23.6





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.568 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

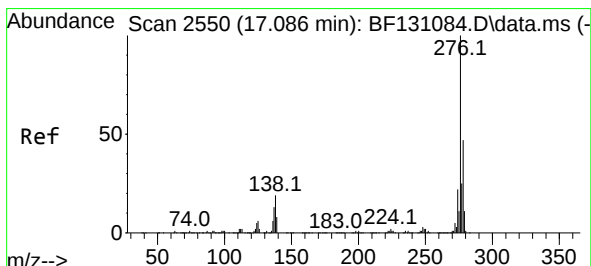
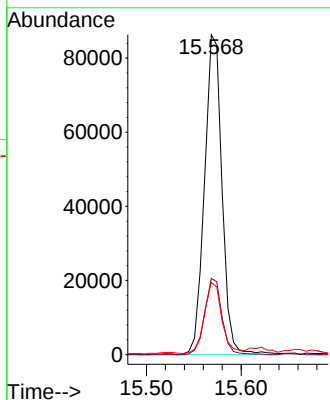
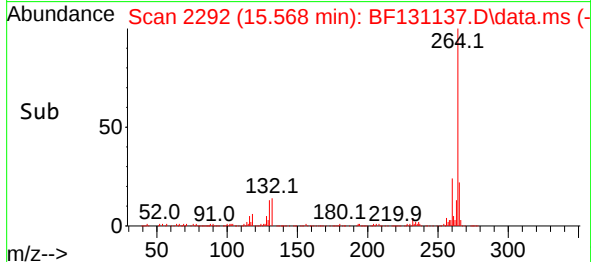
Instrument :  
BNA\_F  
ClientSampleId :  
SB-15



Tgt Ion:264 Resp: 111286  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.1 28.7  
265 22.6 16.7 25.1

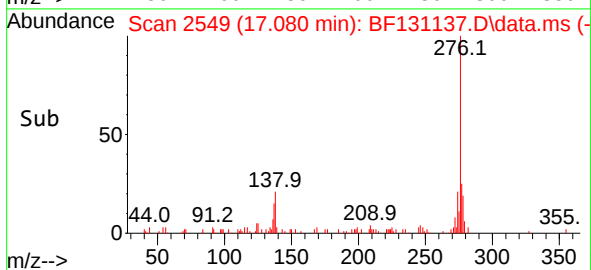
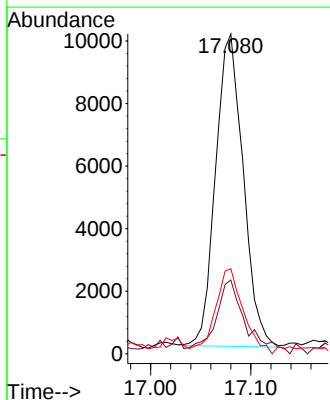
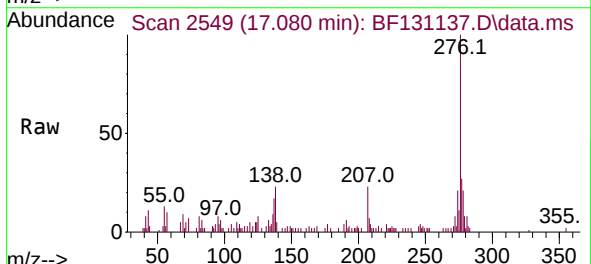
Manual Integrations  
APPROVED

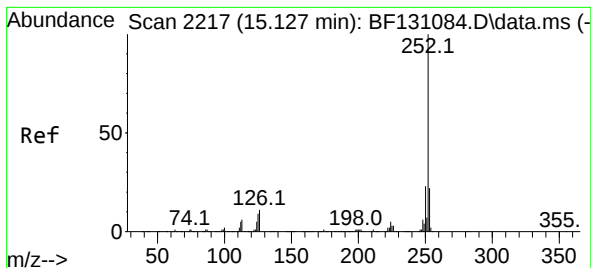
Reviewed By :Christian Giraldo 11/11/2022  
Supervised By :Jagrut Upadhyay 11/11/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.797 ng  
RT: 17.080 min Scan# 2549  
Delta R.T. -0.006 min  
Lab File: BF131137.D  
Acq: 10 Nov 2022 22:43

Tgt Ion:276 Resp: 19131  
Ion Ratio Lower Upper  
276 100  
138 25.6 16.9 25.3#  
277 27.7 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 7.261 ng m

RT: 15.127 min Scan# 2217

Delta R.T. 0.000 min

Lab File: BF131137.D

Acq: 10 Nov 2022 22:43

Instrument :

BNA\_F

ClientSampleId :

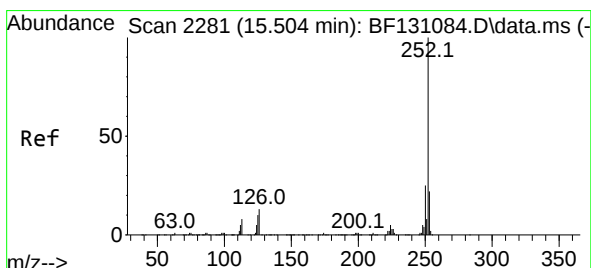
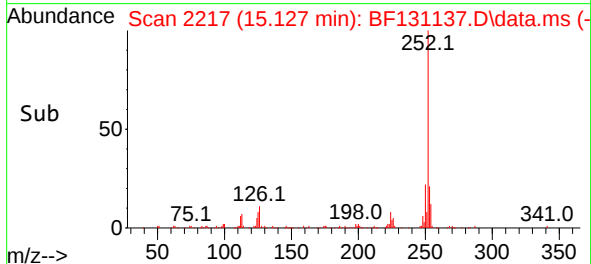
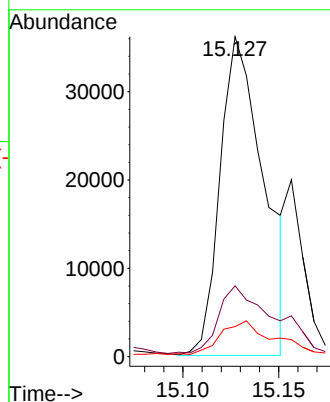
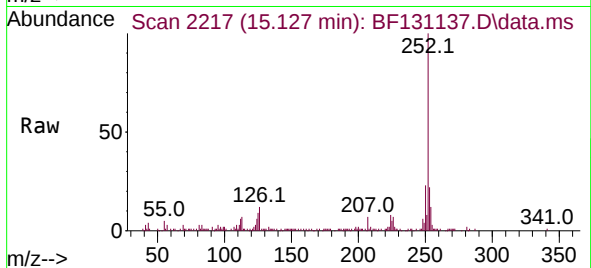
SB-15

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 5713 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 22.1  | 17.3  | 25.9 |
| 125       | 9.4   | 7.2   | 10.8 |

Manual Integrations

APPROVED

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



#90

Benzo(a)pyrene

Concen: 7.123 ng

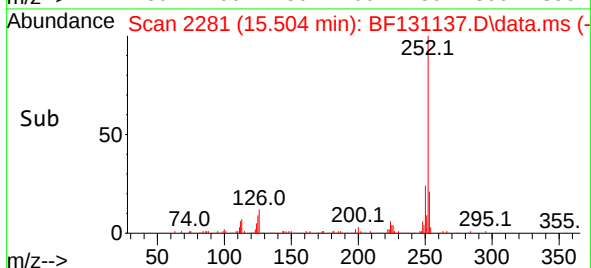
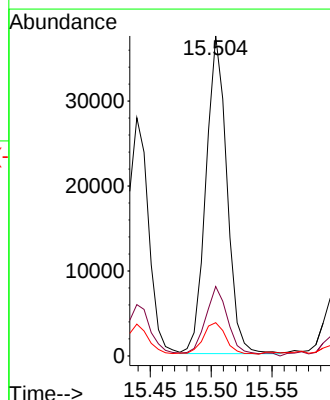
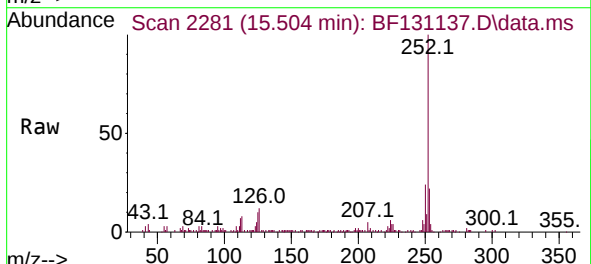
RT: 15.504 min Scan# 2281

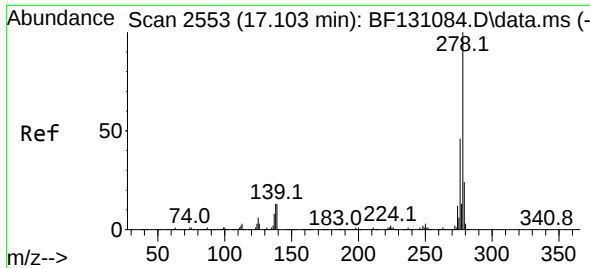
Delta R.T. -0.000 min

Lab File: BF131137.D

Acq: 10 Nov 2022 22:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 44931 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.7  | 17.8  | 26.8  |
| 125       | 10.4  | 8.1   | 12.1  |





#91

Dibenzo(a,h)anthracene

Concen: 4.615 ng

RT: 17.086 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF131137.D

Acq: 10 Nov 2022 22:43

Instrument :

BNA\_F

ClientSampleId :

SB-15

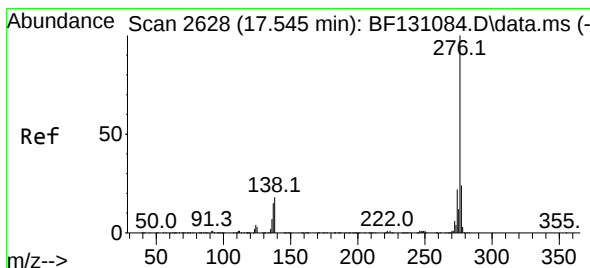
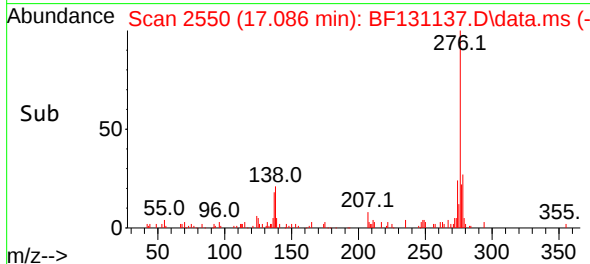
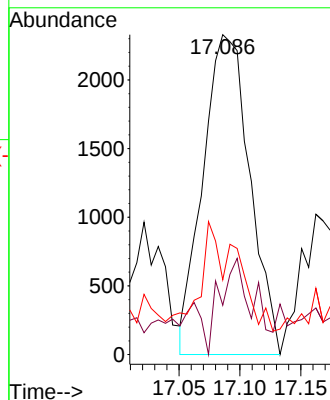
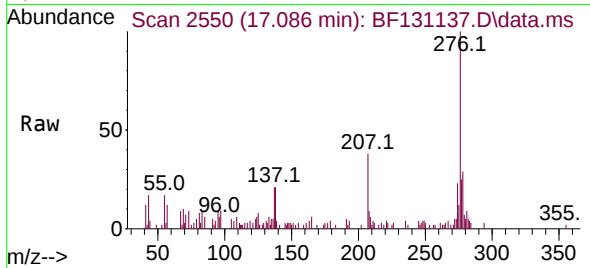
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 6225 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 15.4  | 10.8  | 16.2 |
| 279       | 23.4  | 19.2  | 28.8 |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/11/2022

Supervised By :Jagrut Upadhyay 11/11/2022



#92

Benzo(g,h,i)perylene

Concen: 6.888 ng m

RT: 17.539 min Scan# 2627

Delta R.T. -0.006 min

Lab File: BF131137.D

Acq: 10 Nov 2022 22:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 21713 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.2  | 19.0  | 28.4  |
| 138       | 24.7  | 14.6  | 21.8  |

