

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051625\  
 Data File : BF142432.D  
 Acq On : 16 May 2025 17:43  
 Operator : RC/JU  
 Sample : Q2034-17  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 L3-WC-5

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 05/19/2025  
 Supervised By :Jagrut Upadhyay 05/19/2025

Quant Time: May 16 18:41:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 05 18:41:44 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.898  | 152  | 144656   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.181  | 136  | 546027   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.939  | 164  | 273883   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.422 | 188  | 381184   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 14.063 | 240  | 291502   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.557 | 264  | 237298   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 659986   | 77.885 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.522  | 99   | 809821   | 77.701 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.457  | 82   | 484093   | 54.070 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.722 | 330  | 182449   | 68.997 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.257  | 172  | 949666   | 49.441 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.010 | 244  | 659704   | 33.497 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene              | 11.445 | 178  | 272666   | 13.646 | ng    | 99       |
| 72) Anthracene                | 11.498 | 178  | 56718    | 2.763  | ng    | 97       |
| 75) Fluoranthene              | 12.639 | 202  | 430526   | 21.555 | ng    | 98       |
| 78) Pyrene                    | 12.868 | 202  | 443834   | 17.106 | ng    | 100      |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 220397   | 11.675 | ng    | 97       |
| 83) Chrysene                  | 14.086 | 228  | 199995   | 11.380 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 14.045 | 149  | 16487    | 5.761  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 17.051 | 276  | 63137    | 3.825  | ng    | 94       |
| 88) Benzo(b)fluoranthene      | 15.115 | 252  | 193547m  | 13.467 | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 66180m   | 5.032  | ng    |          |
| 90) Benzo(a)pyrene            | 15.486 | 252  | 138688   | 10.769 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.503 | 276  | 61856    | 4.570  | ng    | 97       |
| -----                         |        |      |          |        |       |          |

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

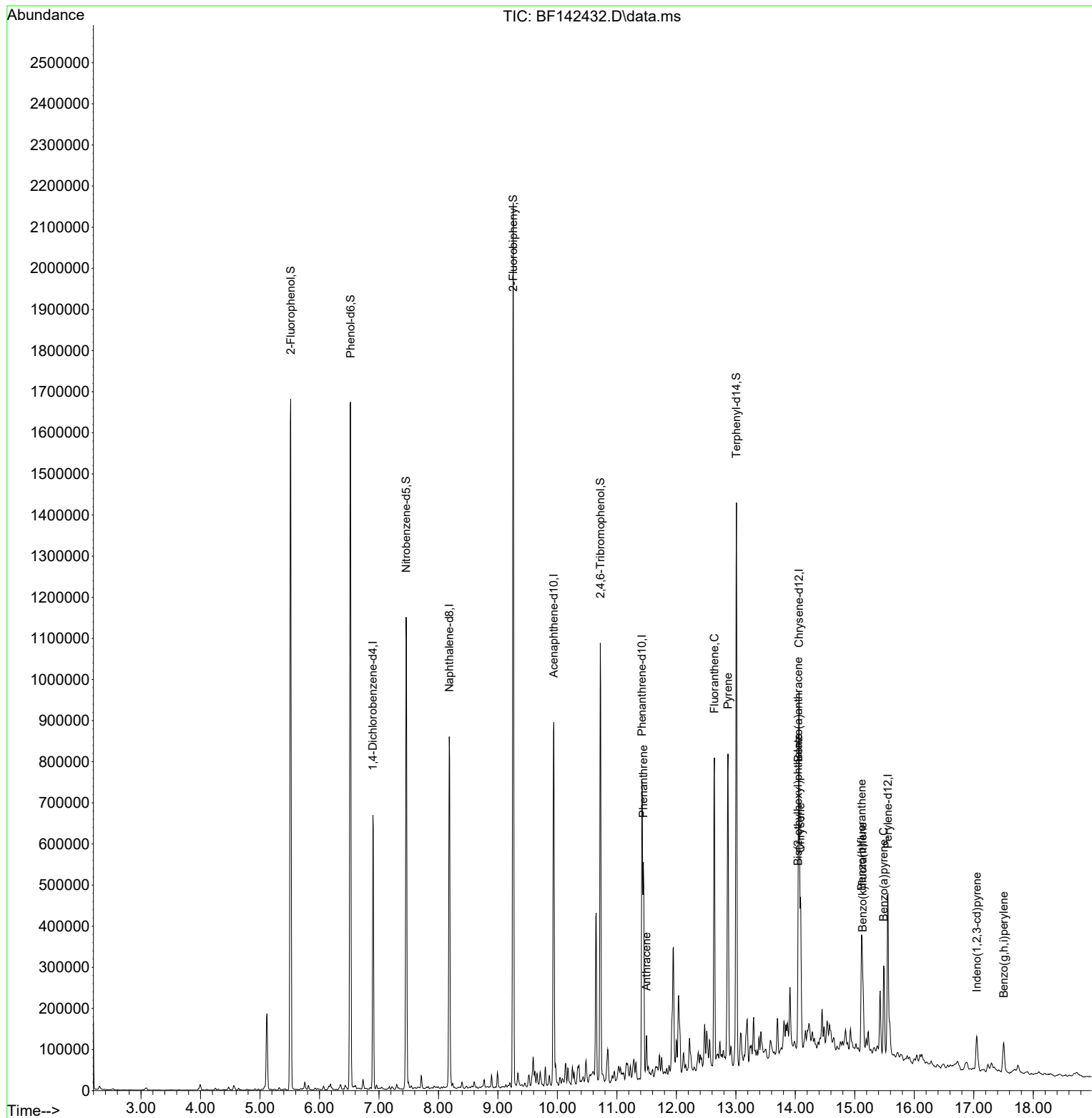
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051625\  
Data File : BF142432.D  
Acq On : 16 May 2025 17:43  
Operator : RC/JU  
Sample : Q2034-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L3-WC-5

Manual Integrations  
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Supervised By :Jagrut Upadhyay 05/19/2025

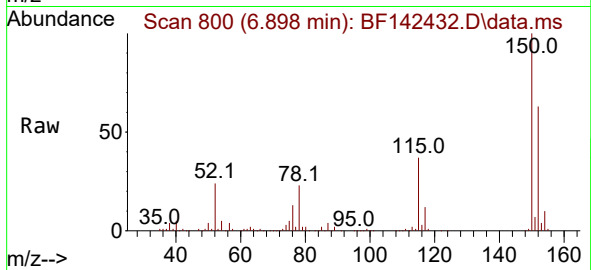
Quant Time: May 16 18:41:44 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 05 18:41:44 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.898 min Scan# 801  
Delta R.T. -0.006 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

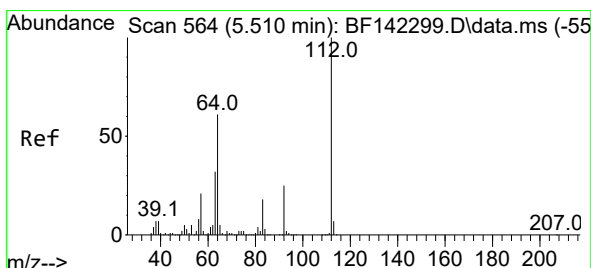
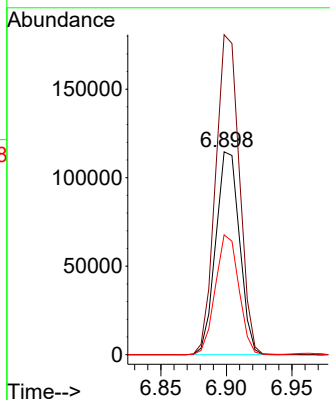
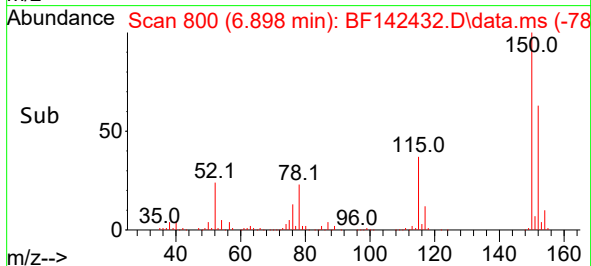
Instrument :  
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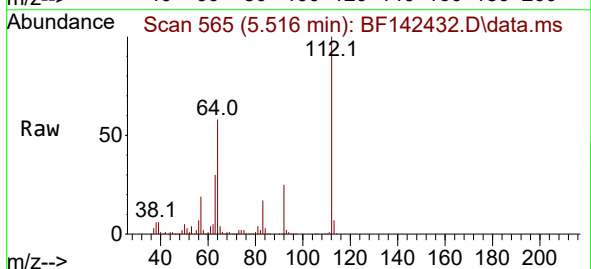
Tgt Ion:152 Resp: 144650  
Ion Ratio Lower Upper  
152 100  
150 157.8 126.6 190.0  
115 59.1 47.3 70.9

Manual Integrations  
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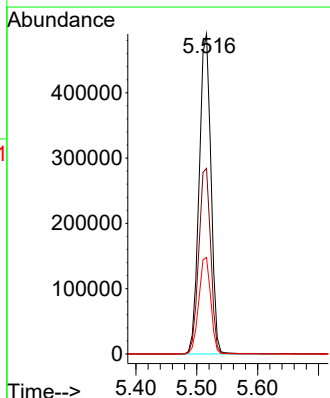
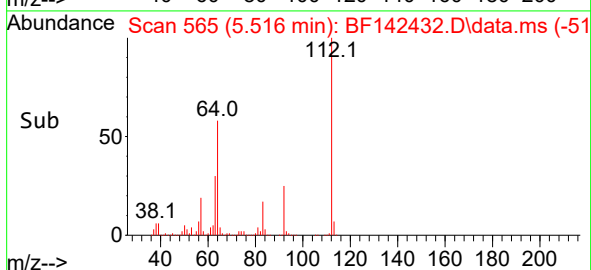
Reviewed By :Rahul Chavli 05/19/2025  
Supervised By :Jagrut Upadhyay 05/19/2025

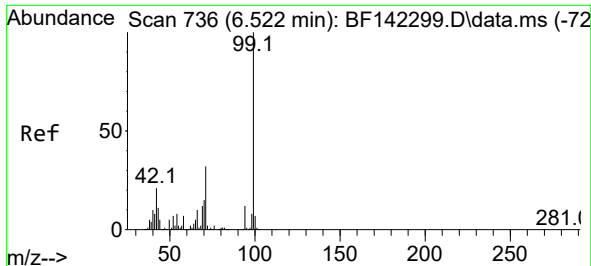


#5  
2-Fluorophenol  
Concen: 77.885 ng  
RT: 5.516 min Scan# 565  
Delta R.T. 0.006 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43



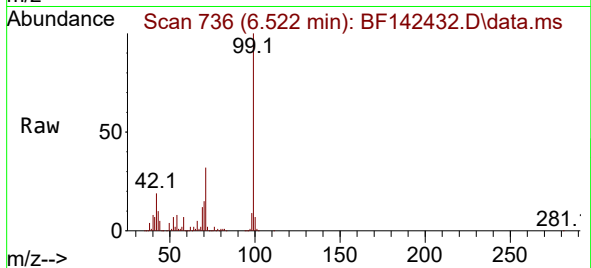
Tgt Ion:112 Resp: 659986  
Ion Ratio Lower Upper  
112 100  
64 58.0 48.9 73.3  
63 30.1 25.6 38.4





#7  
Phenol-d6  
Concen: 77.701 ng  
RT: 6.522 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

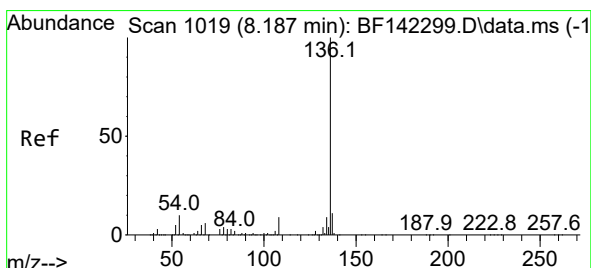
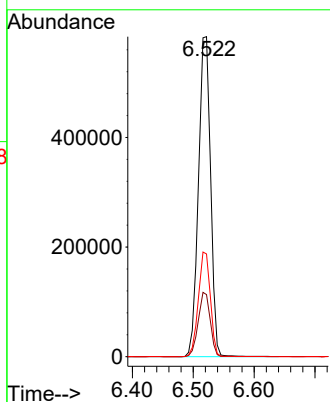
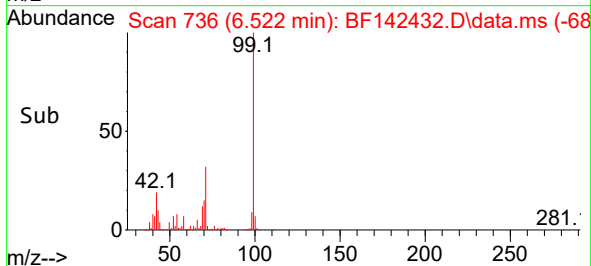
Instrument :  
BNA\_F  
ClientSampleId :  
L3-WC-5



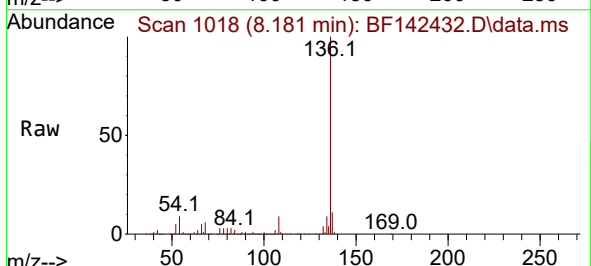
Tgt Ion: 99 Resp: 80982  
Ion Ratio Lower Upper  
99 100  
42 19.4 17.0 25.4  
71 32.1 25.8 38.8

Manual Integrations  
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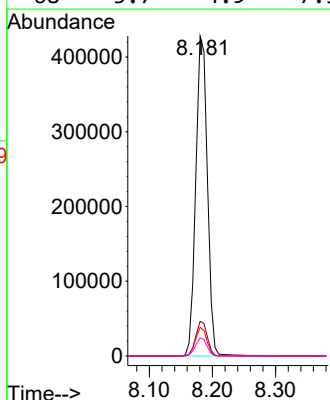
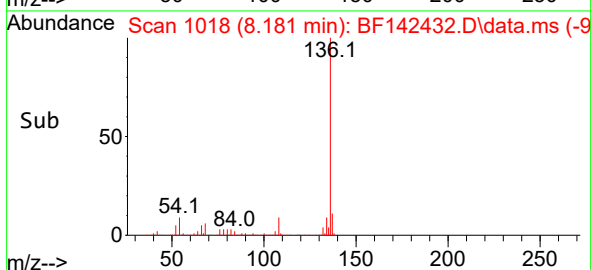
Reviewed By :Rahul Chavli 05/19/2025  
Supervised By :Jagrut Upadhyay 05/19/2025

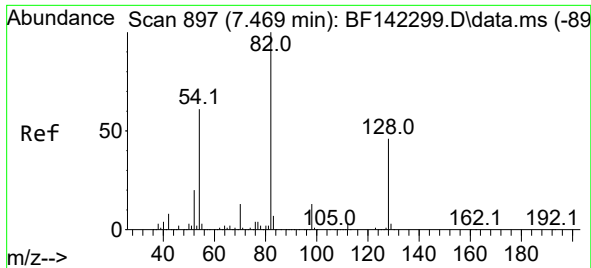


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.181 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43



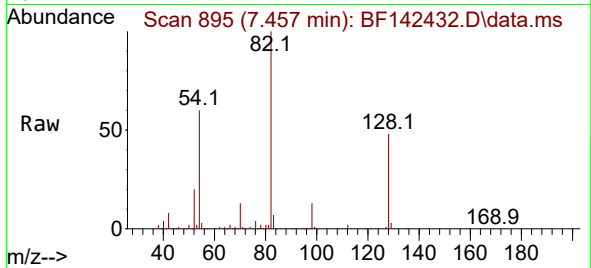
Tgt Ion:136 Resp: 546027  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.9 13.3  
54 9.0 7.7 11.5  
68 5.7 4.9 7.3





#23  
Nitrobenzene-d5  
Concen: 54.070 ng  
RT: 7.457 min Scan# 895  
Delta R.T. -0.012 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

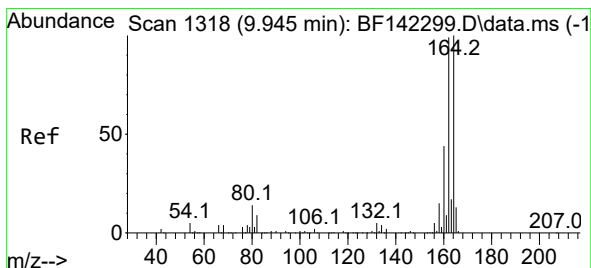
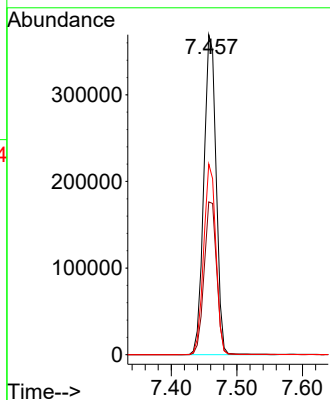
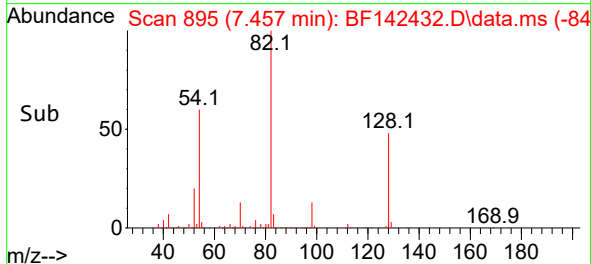
Instrument :  
BNA\_F  
ClientSampleId :  
L3-WC-5



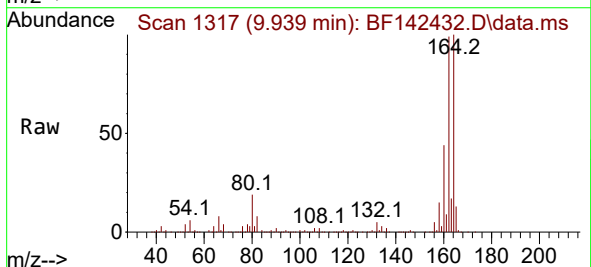
Tgt Ion: 82 Resp: 484093  
Ion Ratio Lower Upper  
82 100  
128 47.7 37.0 55.6  
54 59.6 48.6 73.0

Manual Integrations  
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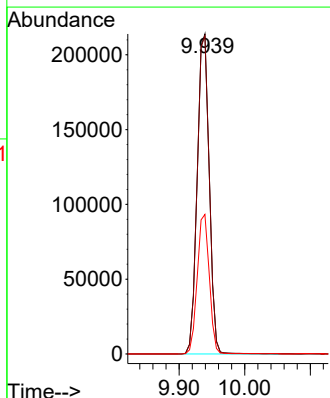
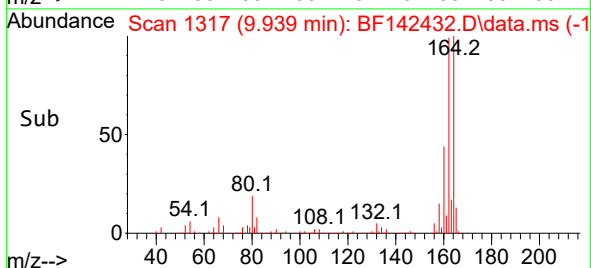
Reviewed By :Rahul Chavli 05/19/2025  
Supervised By :Jagrut Upadhyay 05/19/2025



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.939 min Scan# 1317  
Delta R.T. -0.006 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43



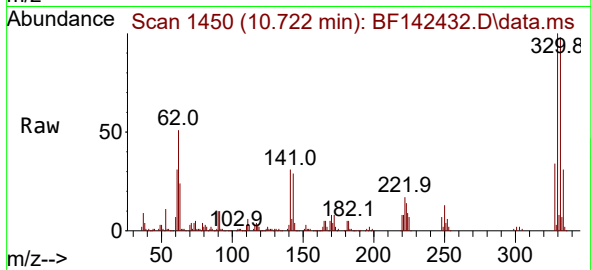
Tgt Ion:164 Resp: 273883  
Ion Ratio Lower Upper  
164 100  
162 99.4 79.2 118.8  
160 43.6 35.3 52.9





#42  
2,4,6-Tribromophenol  
Concen: 68.997 ng  
RT: 10.722 min Scan# 1452  
Delta R.T. -0.012 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

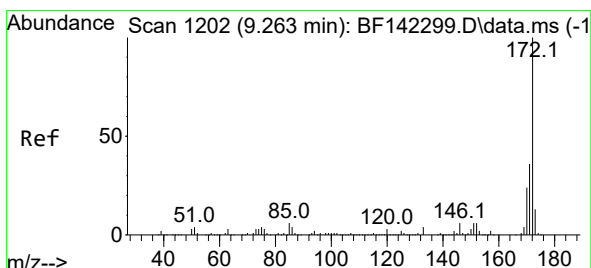
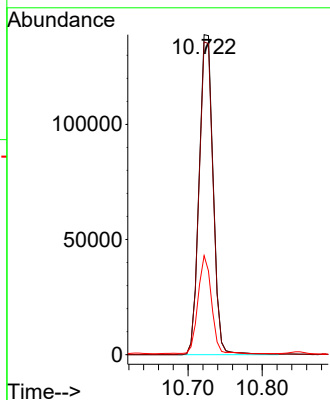
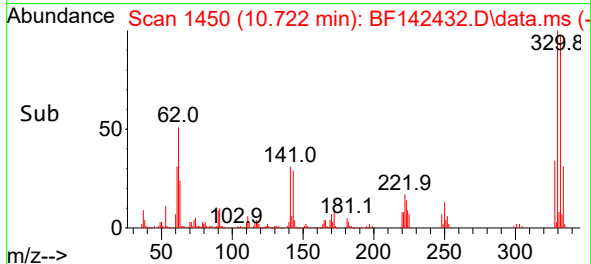
Instrument :  
BNA\_F  
ClientSampleId :  
L3-WC-5



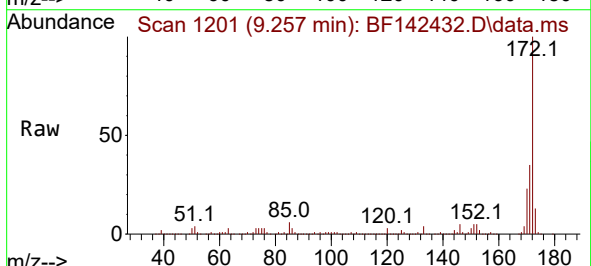
Tgt Ion:330 Resp: 182449  
Ion Ratio Lower Upper  
330 100  
332 97.7 76.8 115.2  
141 29.4 24.9 37.3

Manual Integrations  
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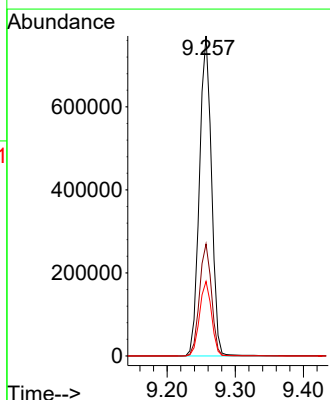
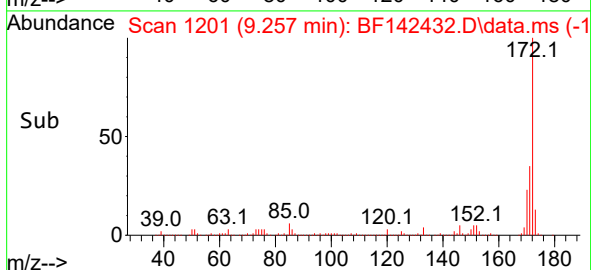
Reviewed By :Rahul Chavli 05/19/2025  
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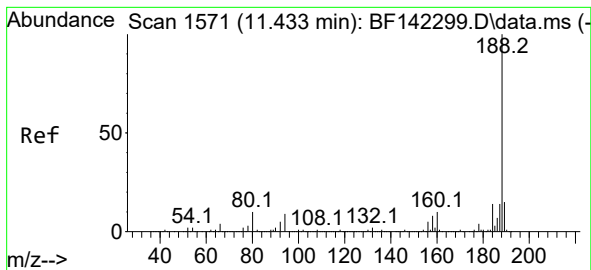


#45  
2-Fluorobiphenyl  
Concen: 49.441 ng  
RT: 9.257 min Scan# 1201  
Delta R.T. -0.006 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43



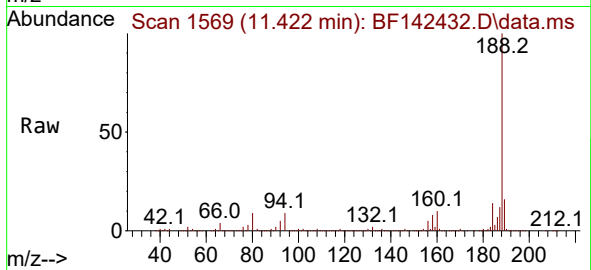
Tgt Ion:172 Resp: 949666  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.6 42.8  
170 23.3 19.0 28.4





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.422 min Scan# 1569  
Delta R.T. -0.012 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

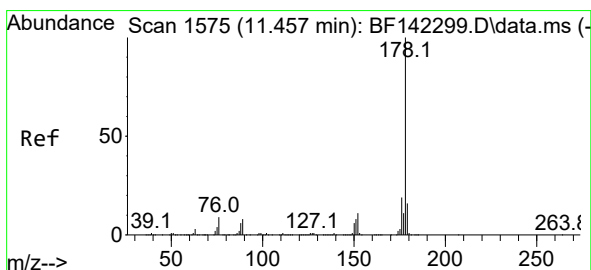
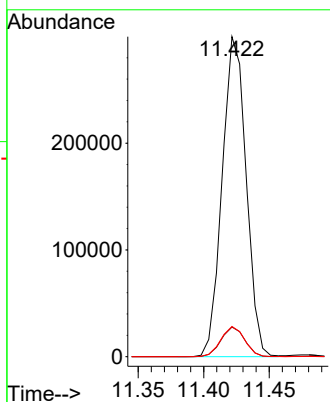
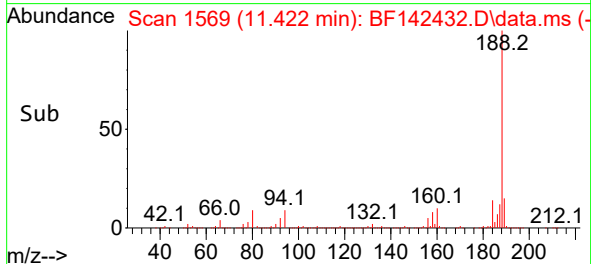
Instrument :  
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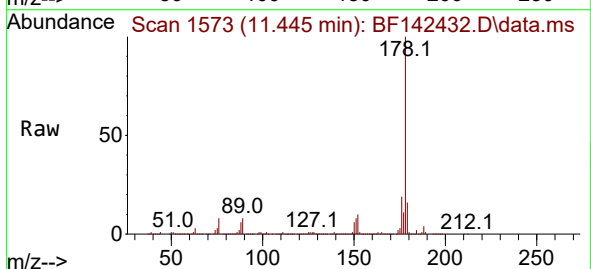
Tgt Ion:188 Resp: 381184  
Ion Ratio Lower Upper  
188 100  
94 9.3 7.5 11.3  
80 9.4 7.9 11.9

Manual Integrations  
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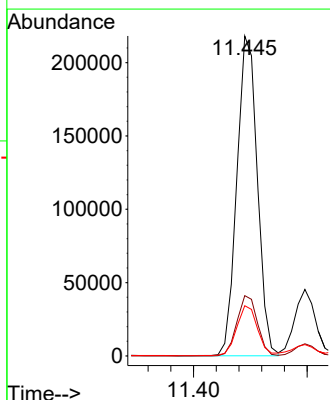
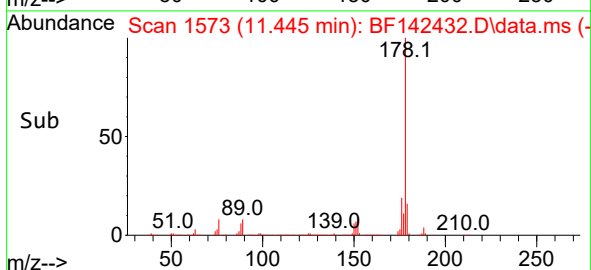
Reviewed By :Rahul Chavli 05/19/2025  
Supervised By :Jagrut Upadhyay 05/19/2025

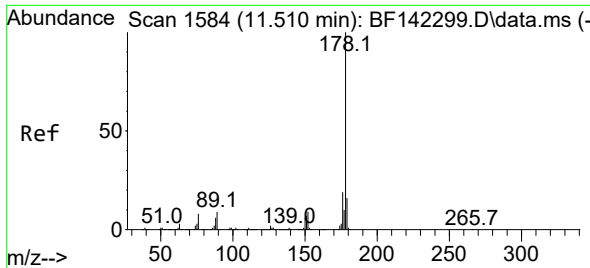


#71  
Phenanthrene  
Concen: 13.646 ng  
RT: 11.445 min Scan# 1573  
Delta R.T. -0.012 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43



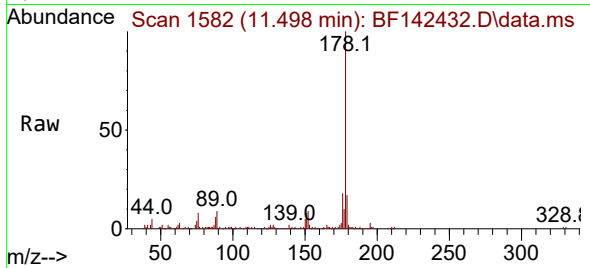
Tgt Ion:178 Resp: 272666  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.5 23.3  
179 15.7 12.6 18.8





#72  
 Anthracene  
 Concen: 2.763 ng  
 RT: 11.498 min Scan# 11498  
 Delta R.T. -0.012 min  
 Lab File: BF142432.D  
 Acq: 16 May 2025 17:43

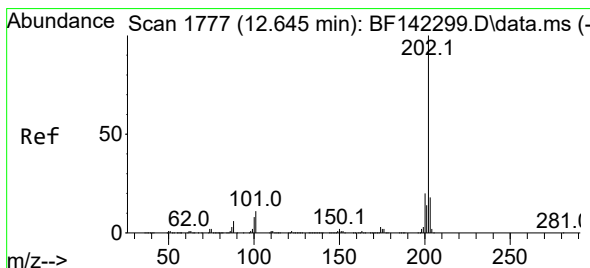
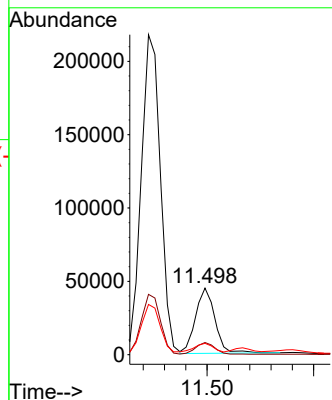
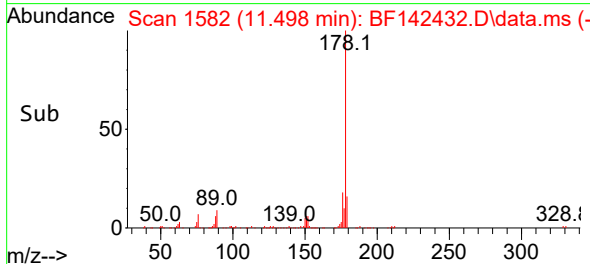
Instrument :  
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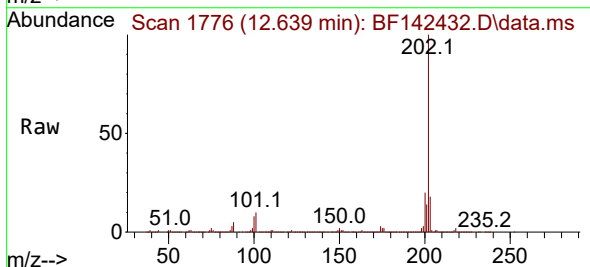
Tgt Ion:178 Resp: 56718  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 15.3 22.9  
 179 17.1 12.6 18.8

Manual Integrations  
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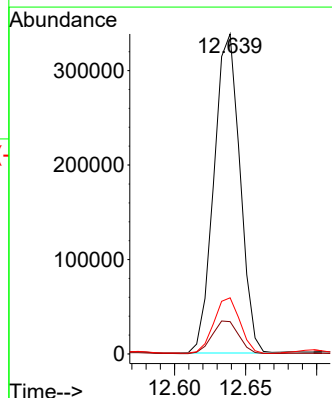
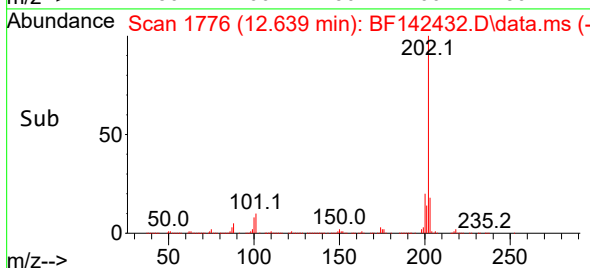
Reviewed By :Rahul Chavli 05/19/2025  
 Supervised By :Jagrut Upadhyay 05/19/2025

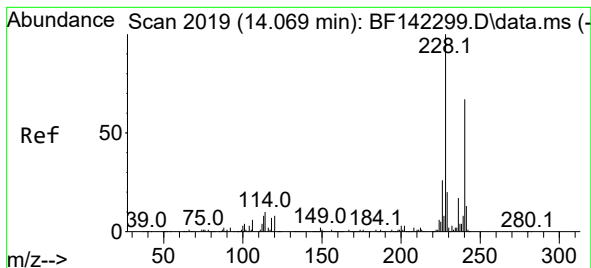


#75  
 Fluoranthene  
 Concen: 21.555 ng  
 RT: 12.639 min Scan# 1776  
 Delta R.T. -0.006 min  
 Lab File: BF142432.D  
 Acq: 16 May 2025 17:43



Tgt Ion:202 Resp: 430526  
 Ion Ratio Lower Upper  
 202 100  
 101 10.1 0.0 31.4  
 203 17.6 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF142432.D

Acq: 16 May 2025 17:43

Instrument :

BNA\_F

ClientSampleId :

L3-WC-5

Tgt Ion:240 Resp: 291502

Ion Ratio Lower Upper

240 100

120 11.3 9.7 14.5

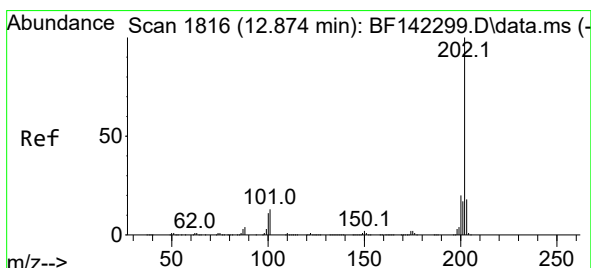
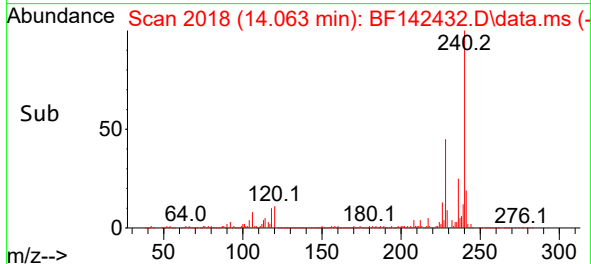
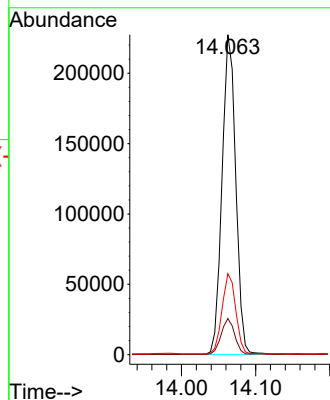
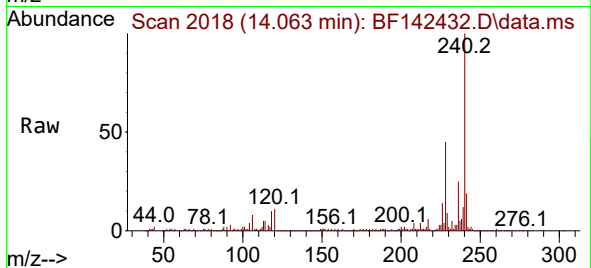
236 25.3 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/19/2025

Supervised By :Jagrut Upadhyay 05/19/2025



#78

Pyrene

Concen: 17.106 ng

RT: 12.868 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142432.D

Acq: 16 May 2025 17:43

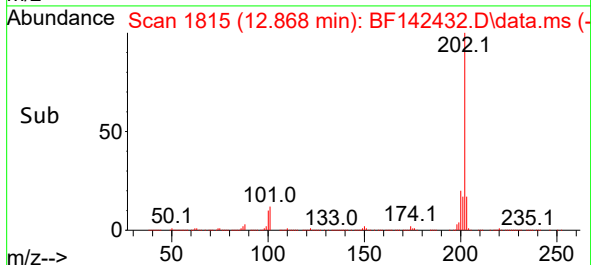
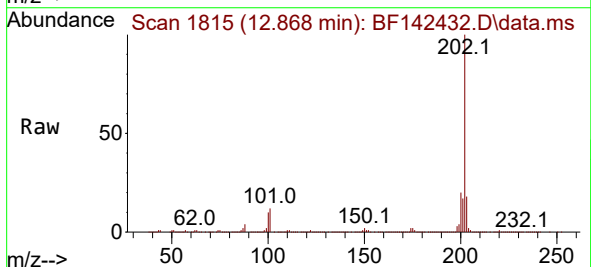
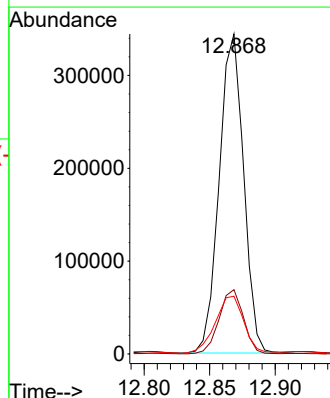
Tgt Ion:202 Resp: 443834

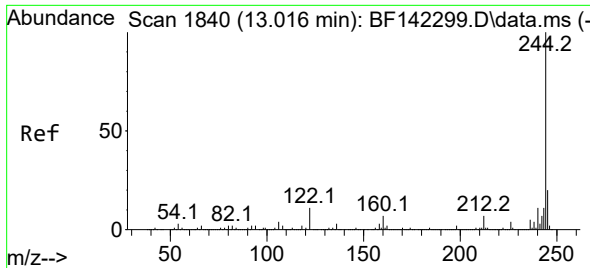
Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.4

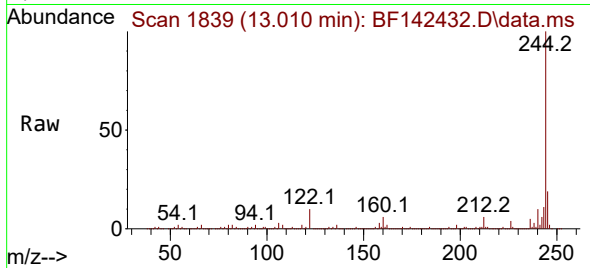
203 18.0 14.3 21.5





#79  
 Terphenyl-d14  
 Concen: 33.497 ng  
 RT: 13.010 min Scan# 1840  
 Delta R.T. -0.006 min  
 Lab File: BF142432.D  
 Acq: 16 May 2025 17:43

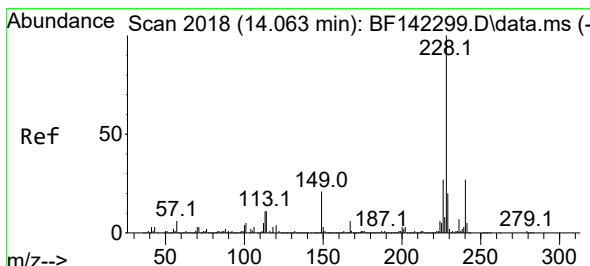
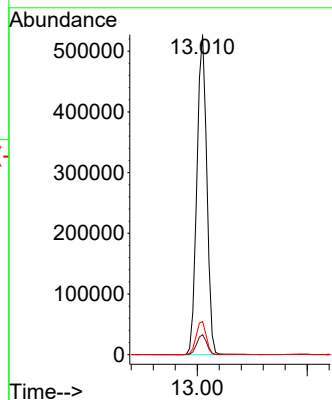
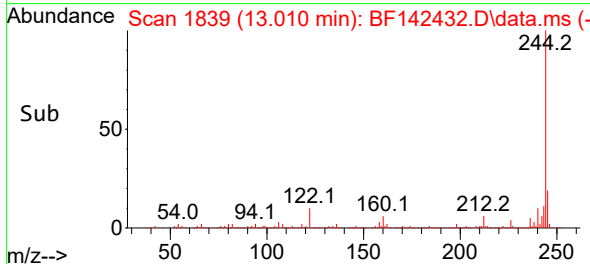
Instrument :  
 BNA\_F  
 ClientSampleId :  
 L3-WC-5



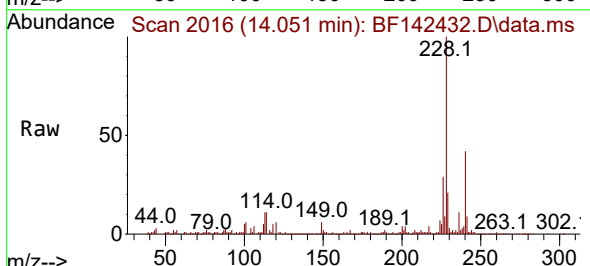
Tgt Ion:244 Resp: 659704  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 5.4 8.2  
 122 10.3 9.0 13.4

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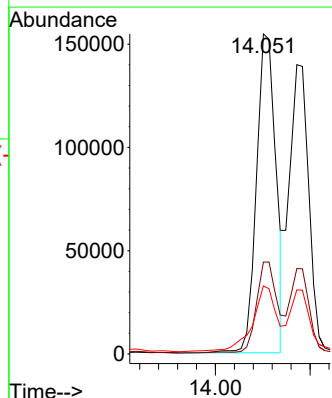
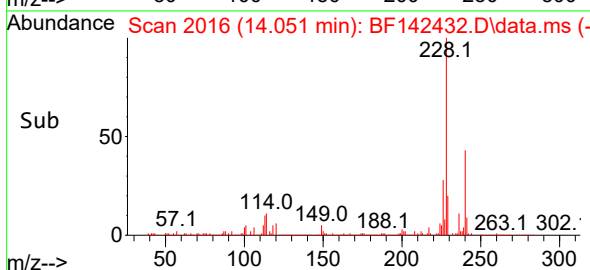
Reviewed By :Rahul Chavli 05/19/2025  
 Supervised By :Jagrut Upadhyay 05/19/2025

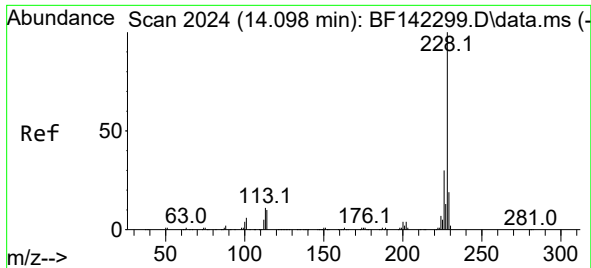


#81  
 Benzo(a)anthracene  
 Concen: 11.675 ng  
 RT: 14.051 min Scan# 2016  
 Delta R.T. -0.012 min  
 Lab File: BF142432.D  
 Acq: 16 May 2025 17:43



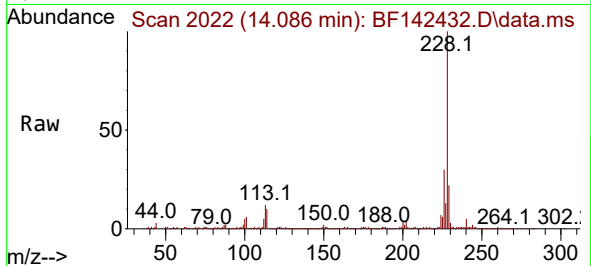
Tgt Ion:228 Resp: 220397  
 Ion Ratio Lower Upper  
 228 100  
 226 28.7 21.5 32.3  
 229 21.3 15.9 23.9





#83  
Chrysene  
Concen: 11.380 ng  
RT: 14.086 min Scan# 2015  
Delta R.T. -0.012 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

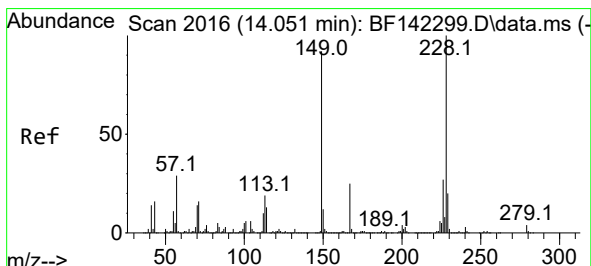
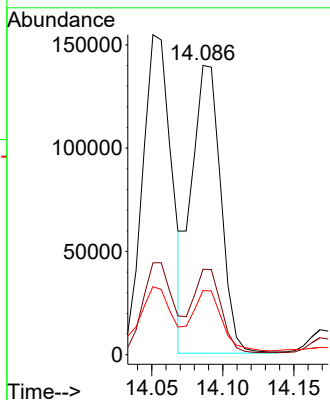
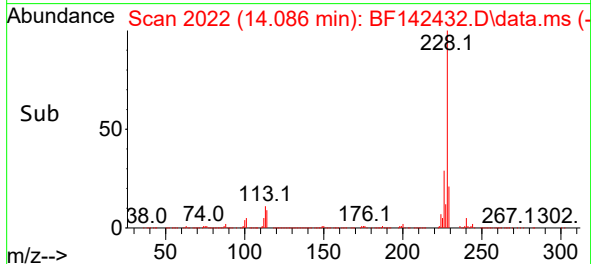
Instrument :  
BNA\_F  
ClientSampleId :  
L3-WC-5



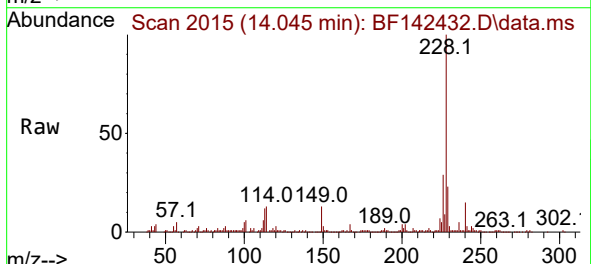
Tgt Ion:228 Resp: 199999  
Ion Ratio Lower Upper  
228 100  
226 29.5 23.9 35.9  
229 22.2 15.4 23.2

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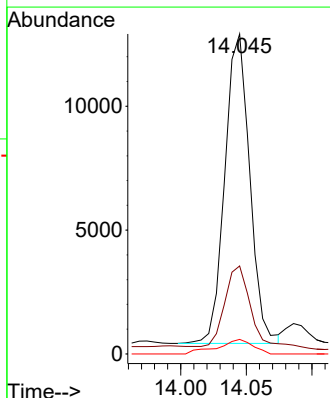
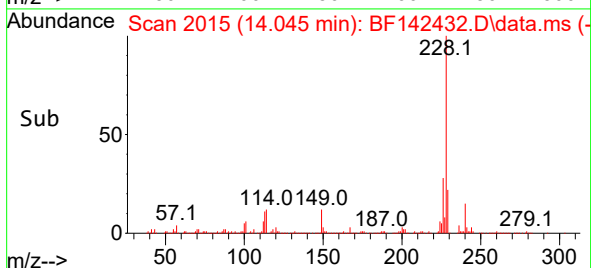
Reviewed By :Rahul Chavli 05/19/2025  
Supervised By :Jagrut Upadhyay 05/19/2025

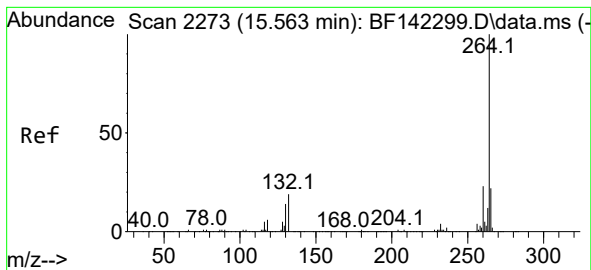


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 5.761 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43



Tgt Ion:149 Resp: 16487  
Ion Ratio Lower Upper  
149 100  
167 27.5 22.0 33.0  
279 4.5 3.0 4.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142432.D

Acq: 16 May 2025 17:43

Instrument :

BNA\_F

ClientSampleId :

L3-WC-5

Tgt Ion:264 Resp: 237298

Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

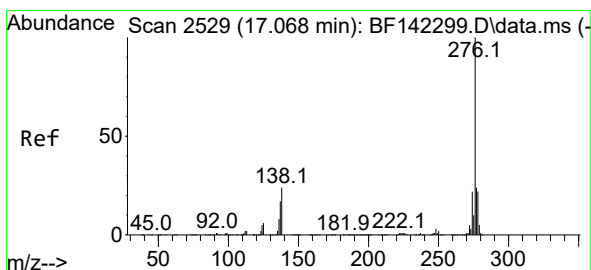
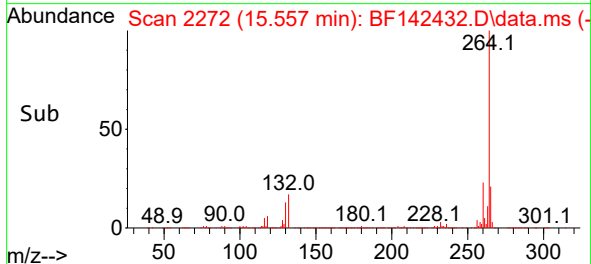
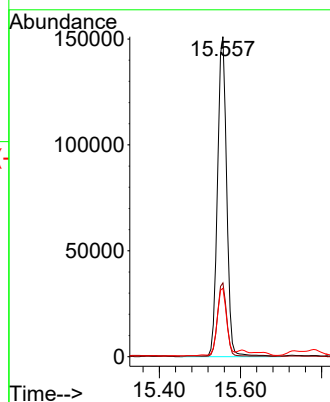
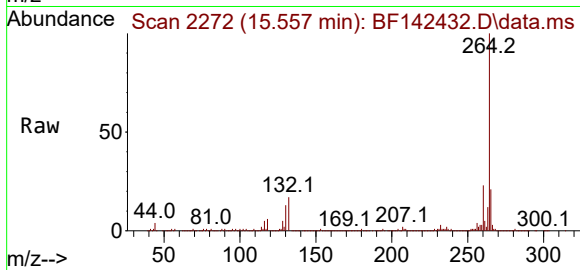
265 21.4 17.5 26.3

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#87

Indeno(1,2,3-cd)pyrene

Concen: 3.825 ng

RT: 17.051 min Scan# 2526

Delta R.T. -0.018 min

Lab File: BF142432.D

Acq: 16 May 2025 17:43

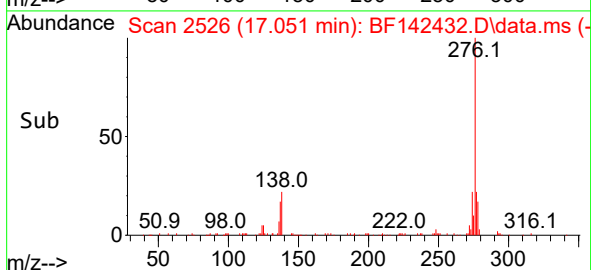
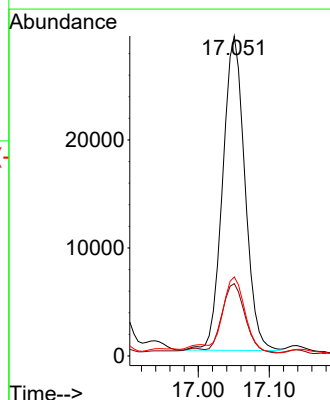
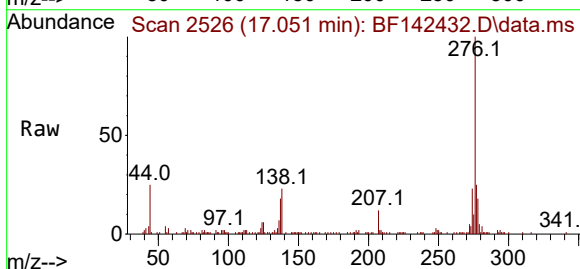
Tgt Ion:276 Resp: 63137

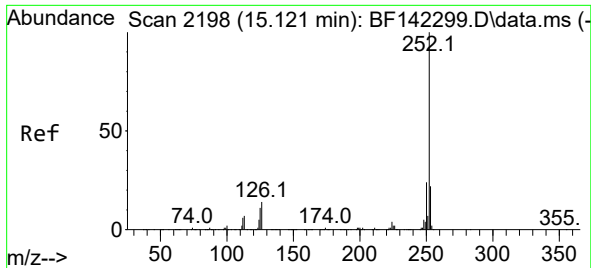
Ion Ratio Lower Upper

276 100

138 23.3 22.0 33.0

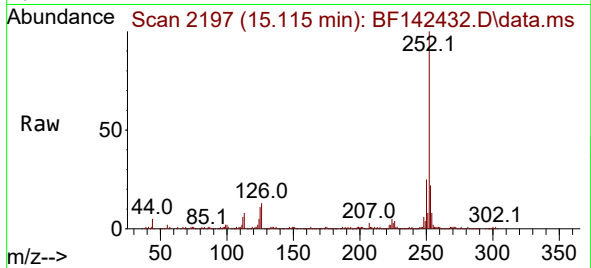
277 26.4 20.1 30.1





#88  
Benzo(b)fluoranthene  
Concen: 13.467 ng m  
RT: 15.115 min Scan# 2198  
Delta R.T. -0.006 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

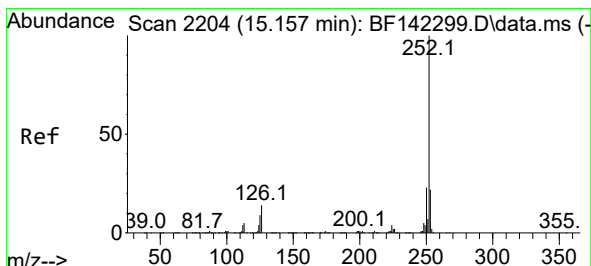
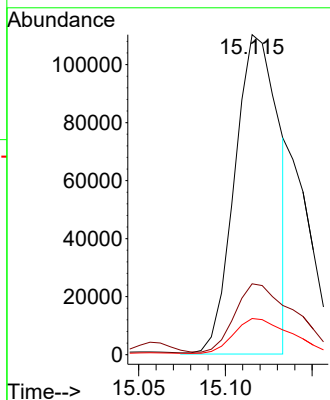
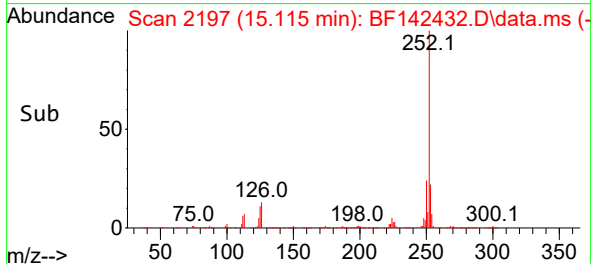
Instrument :  
BNA\_F  
ClientSampleId :  
L3-WC-5



Tgt Ion:252 Resp: 19354  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.7 26.5  
125 11.3 8.7 13.1

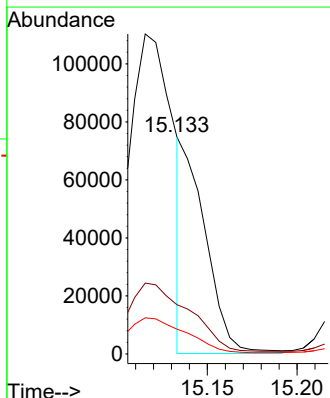
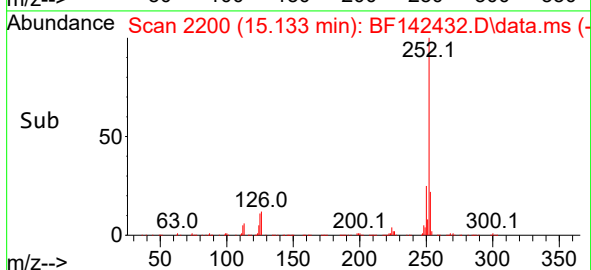
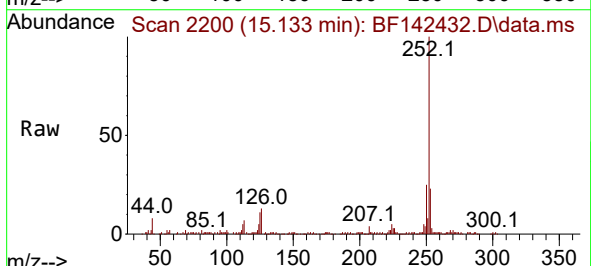
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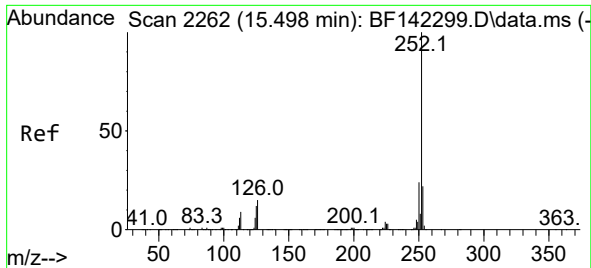
Reviewed By :Rahul Chavli 05/19/2025  
Supervised By :Jagrut Upadhyay 05/19/2025



#89  
Benzo(k)fluoranthene  
Concen: 5.032 ng m  
RT: 15.133 min Scan# 2200  
Delta R.T. -0.024 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

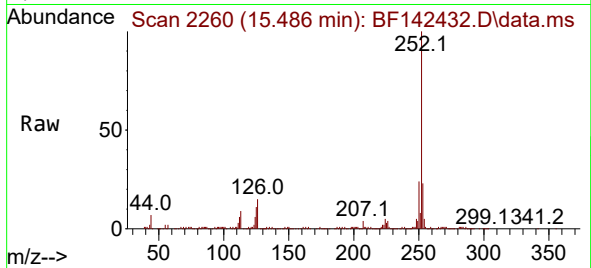
Tgt Ion:252 Resp: 66180  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.6 26.4  
125 11.4 8.1 12.1





#90  
Benzo(a)pyrene  
Concen: 10.769 ng  
RT: 15.486 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43

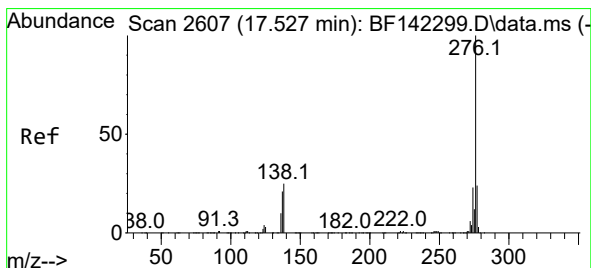
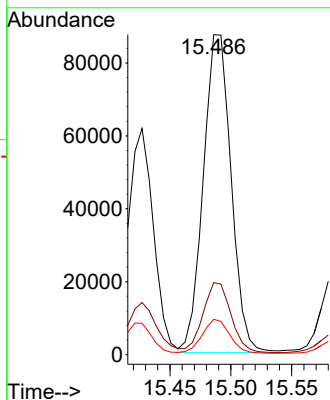
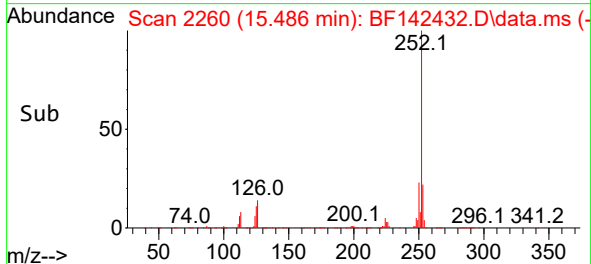
Instrument :  
BNA\_F  
ClientSampleId :  
L3-WC-5



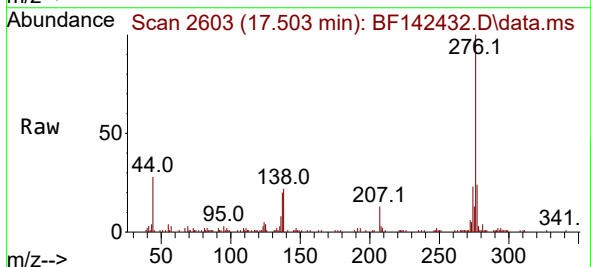
Tgt Ion: 252 Resp: 13868  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.8 26.6  
125 11.1 9.4 14.0

Manual Integrations  
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Supervised By :Jagrut Upadhyay 05/19/2025



#92  
Benzo(g,h,i)perylene  
Concen: 4.570 ng  
RT: 17.503 min Scan# 2603  
Delta R.T. -0.024 min  
Lab File: BF142432.D  
Acq: 16 May 2025 17:43



Tgt Ion: 276 Resp: 61856  
Ion Ratio Lower Upper  
276 100  
277 24.2 19.0 28.6  
138 22.2 19.8 29.6

