

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102725\  
 Data File : BF144082.D  
 Acq On : 27 Oct 2025 14:34  
 Operator : RC/JU  
 Sample : Q3404-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MOO-25-0285-0288

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 10/28/2025  
 Supervised By :mohammad ahmed 10/30/2025

Quant Time: Oct 27 14:55:18 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 24 17:30:25 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.881  | 152  | 55170    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.163  | 136  | 211780   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.916  | 164  | 116608   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.410 | 188  | 182067   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.057 | 240  | 134958   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.539 | 264  | 184122   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.493  | 112  | 183641   | 52.663 | ng    | 0.00     |
| 7) Phenol-d6                | 6.504  | 99   | 205504   | 53.362 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.440  | 82   | 127578   | 33.004 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.710 | 330  | 65358    | 44.001 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.234  | 172  | 223881   | 27.018 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.998 | 244  | 218711   | 28.331 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 75) Fluoranthene            | 12.627 | 202  | 93063    | 9.314  | ng    | 100      |
| 78) Pyrene                  | 12.857 | 202  | 123964   | 12.776 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.045 | 228  | 54978    | 6.028  | ng    | 96       |
| 83) Chrysene                | 14.080 | 228  | 117615   | 13.742 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.039 | 276  | 32630    | 2.581  | ng    | 93       |
| 88) Benzo(b)fluoranthene    | 15.104 | 252  | 141380m  | 13.582 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.121 | 252  | 49377m   | 5.141  | ng    |          |
| 90) Benzo(a)pyrene          | 15.474 | 252  | 47606    | 5.098  | ng    | # 98     |
| 92) Benzo(g,h,i)perylene    | 17.492 | 276  | 26006    | 2.585  | ng    | # 95     |
| -----                       |        |      |          |        |       |          |

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

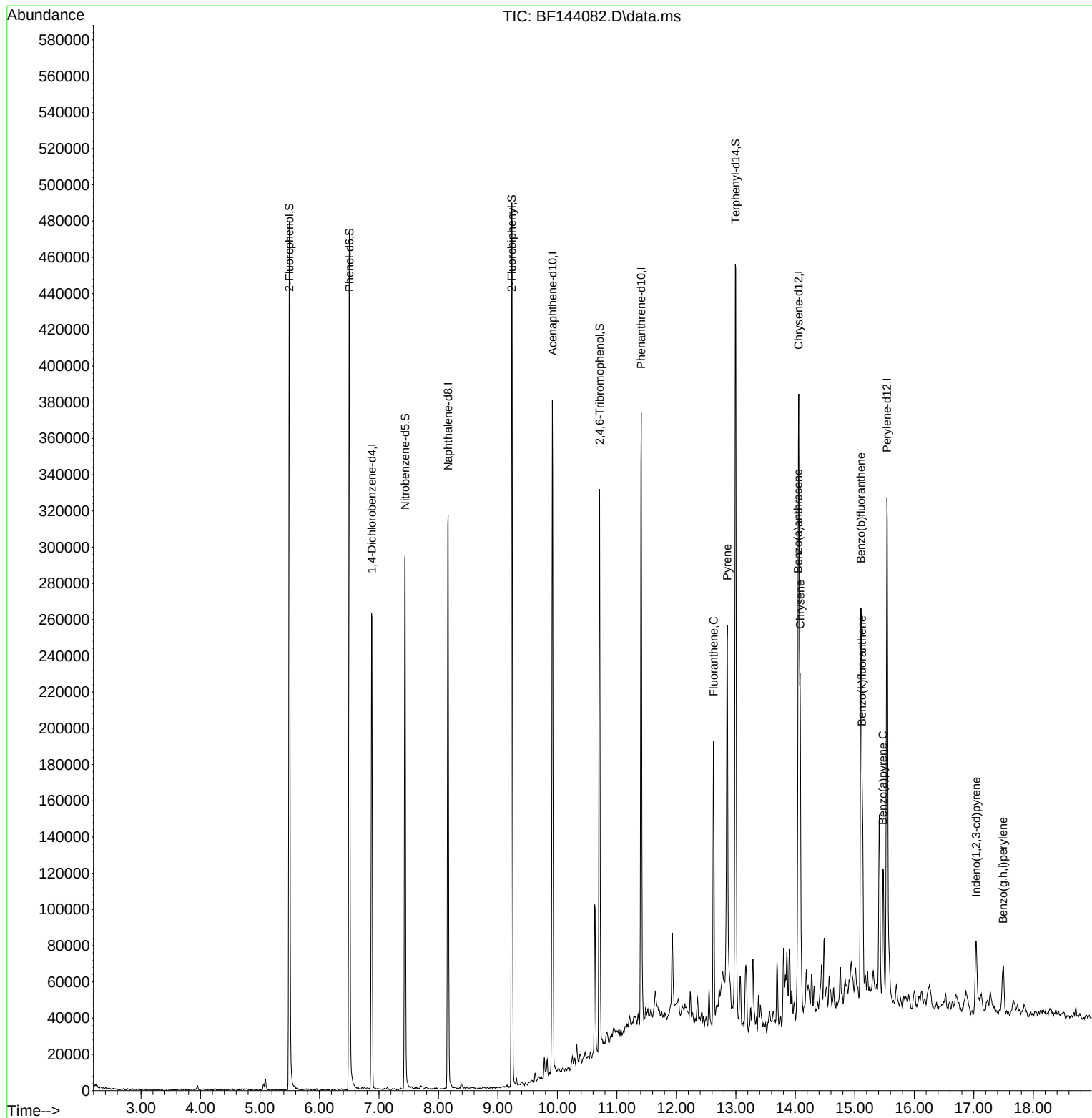
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102725\  
Data File : BF144082.D  
Acq On : 27 Oct 2025 14:34  
Operator : RC/JU  
Sample : Q3404-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

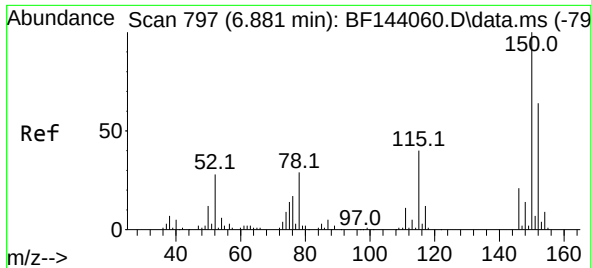
Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288

Quant Time: Oct 27 14:55:18 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 24 17:30:25 2025  
Response via : Initial Calibration

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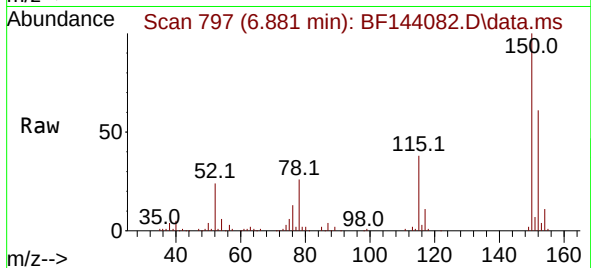
Reviewed By :Rahul Chavli 10/28/2025  
Supervised By :mohammad ahmed 10/30/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 797  
Delta R.T. -0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

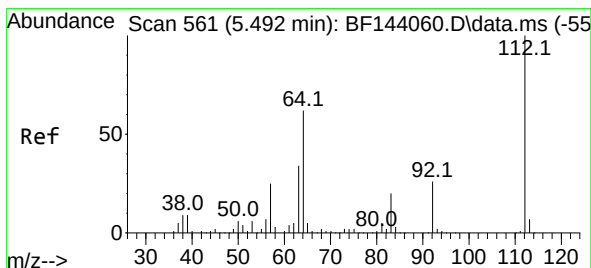
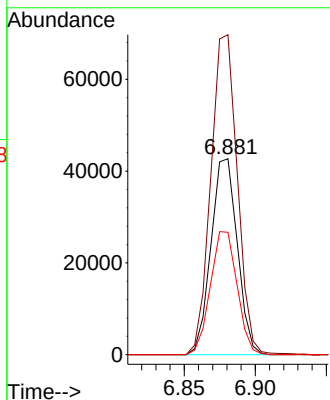
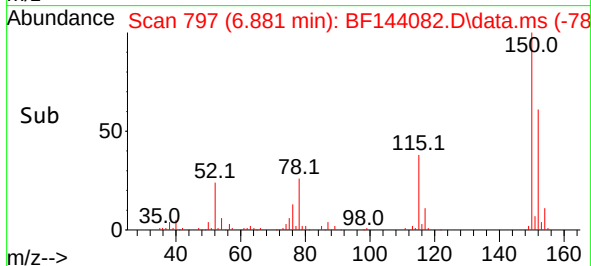
Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288



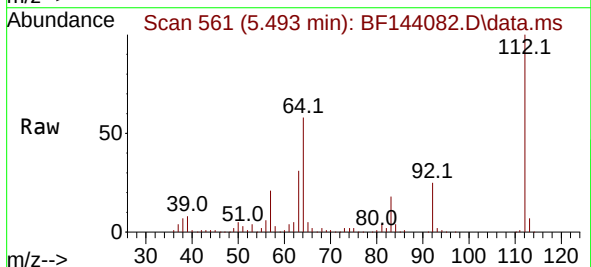
Tgt Ion:152 Resp: 55170  
Ion Ratio Lower Upper  
152 100  
150 163.2 124.4 186.6  
115 62.5 49.4 74.0

Manual Integrations  
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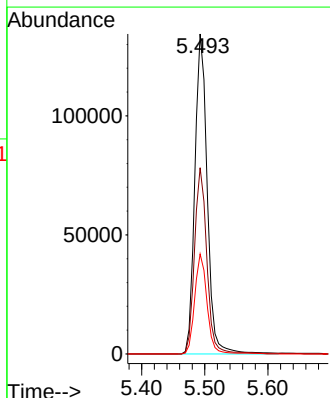
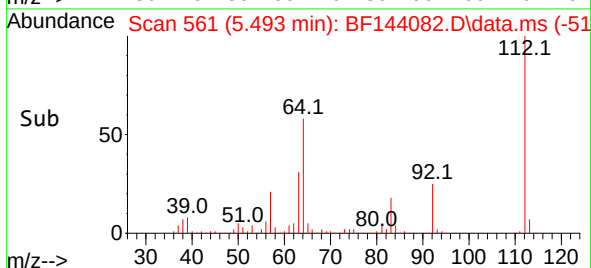
Reviewed By :Rahul Chavli 10/28/2025  
Supervised By :mohammad ahmed 10/30/2025

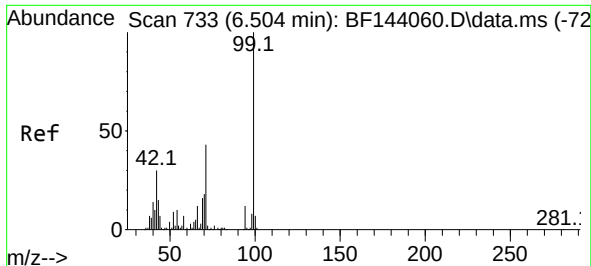


#5  
2-Fluorophenol  
Concen: 52.663 ng  
RT: 5.493 min Scan# 561  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34



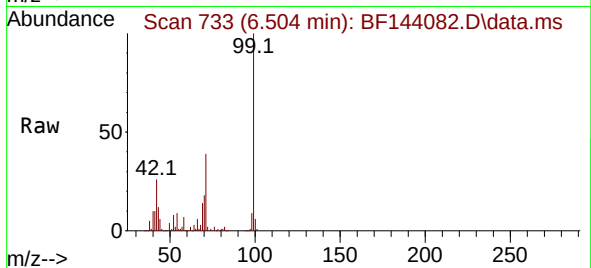
Tgt Ion:112 Resp: 183641  
Ion Ratio Lower Upper  
112 100  
64 58.2 49.8 74.8  
63 31.2 27.4 41.2





#7  
Phenol-d6  
Concen: 53.362 ng  
RT: 6.504 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

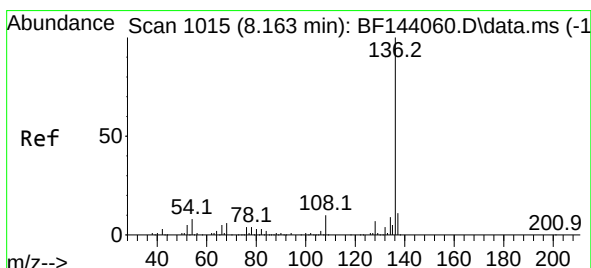
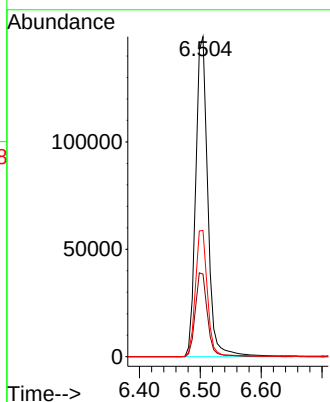
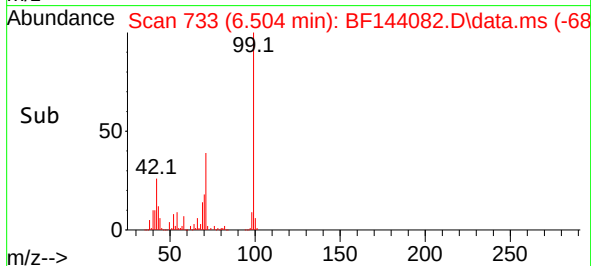
Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288



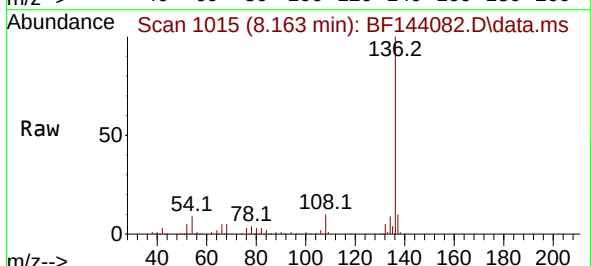
Tgt Ion: 99 Resp: 205504  
Ion Ratio Lower Upper  
99 100  
42 25.8 23.9 35.9  
71 39.4 34.4 51.6

Manual Integrations  
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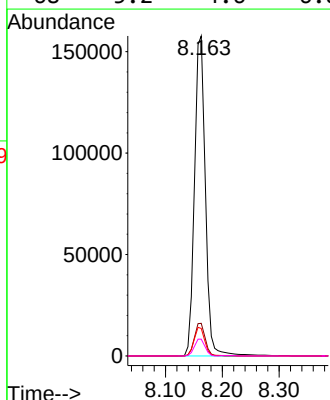
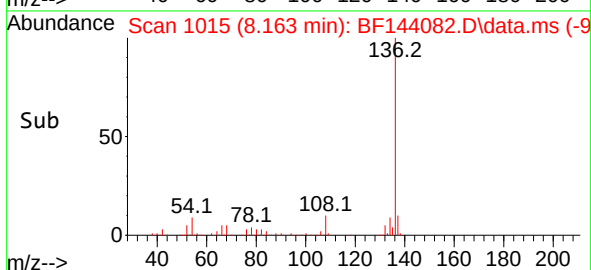
Reviewed By :Rahul Chavli 10/28/2025  
Supervised By :mohammad ahmed 10/30/2025

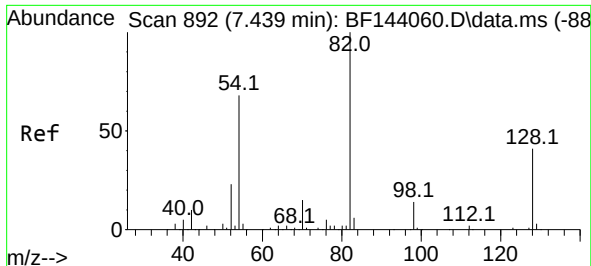


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 1015  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34



Tgt Ion:136 Resp: 211780  
Ion Ratio Lower Upper  
136 100  
137 10.2 8.6 13.0  
54 8.6 6.6 9.8  
68 5.2 4.6 6.8





#23

Nitrobenzene-d5

Concen: 33.004 ng

RT: 7.440 min Scan# 892

Delta R.T. 0.000 min

Lab File: BF144082.D

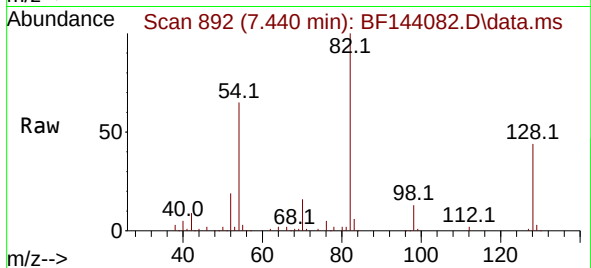
Acq: 27 Oct 2025 14:34

Instrument :

BNA\_F

ClientSampleId :

MOO-25-0285-0288



Tgt Ion: 82 Resp: 127578

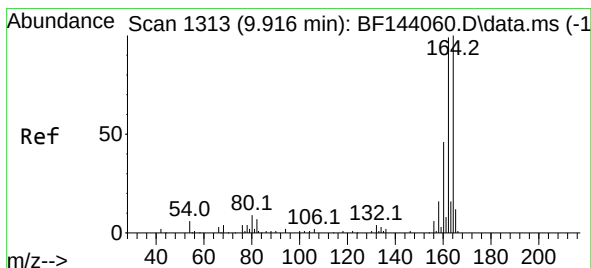
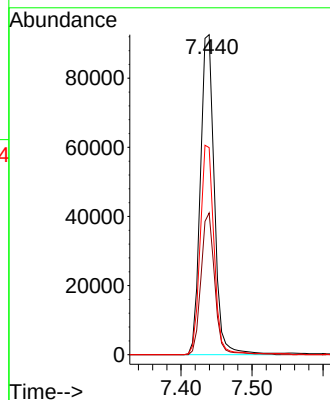
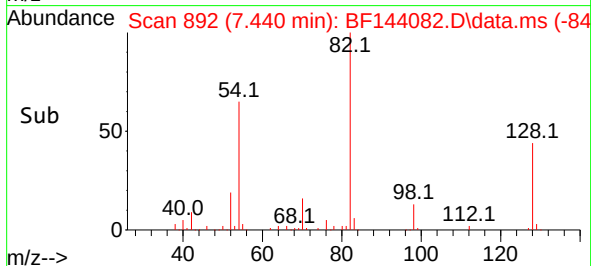
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 44.3  | 32.4  | 48.6  |
| 54  | 64.7  | 54.0  | 81.0  |

Manual Integrations

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Supervised By :mohammad ahmed 10/30/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

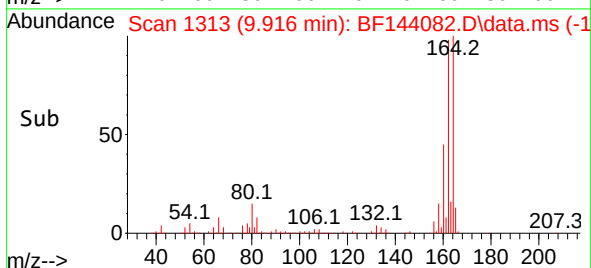
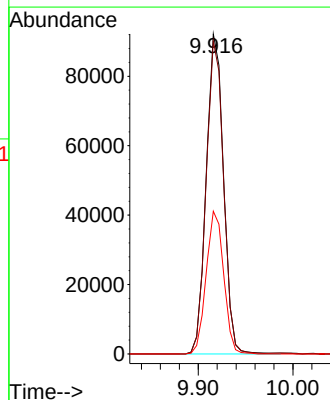
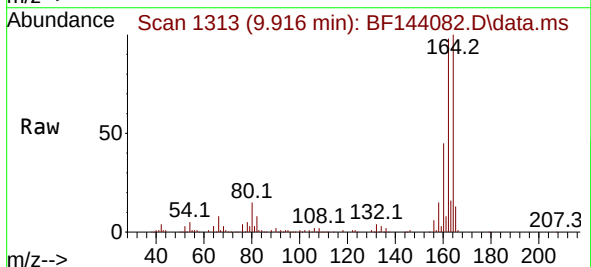
Delta R.T. 0.000 min

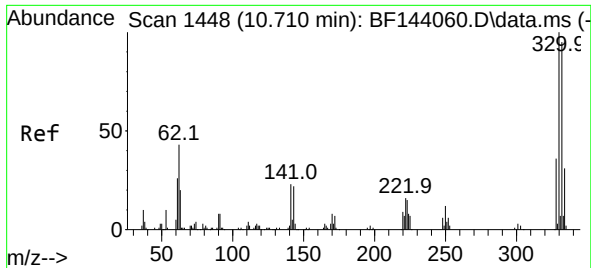
Lab File: BF144082.D

Acq: 27 Oct 2025 14:34

Tgt Ion:164 Resp: 116608

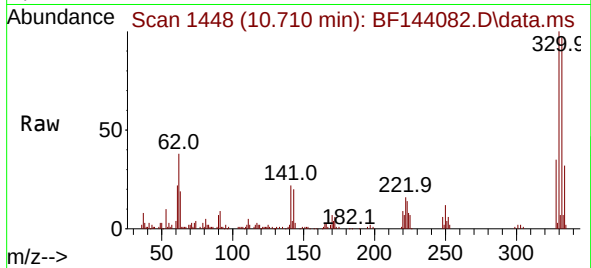
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 97.8  | 79.4  | 119.2 |
| 160 | 44.6  | 36.7  | 55.1  |





#42  
2,4,6-Tribromophenol  
Concen: 44.001 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

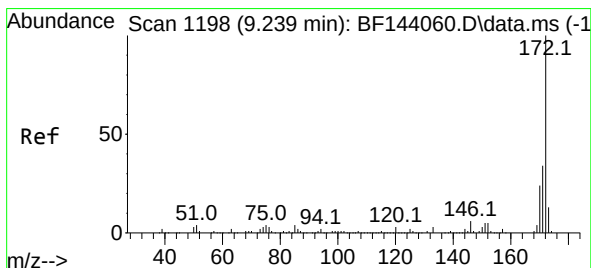
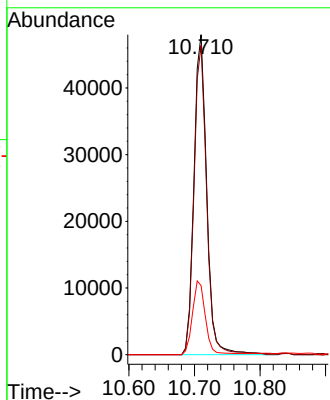
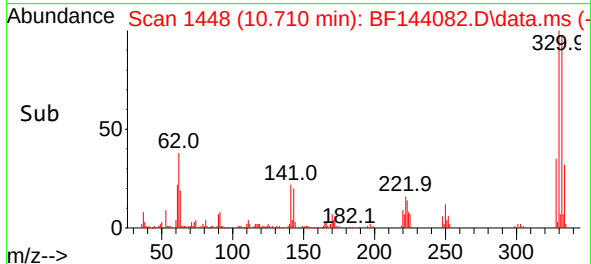
Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288



Tgt Ion:330 Resp: 65358  
Ion Ratio Lower Upper  
330 100  
332 95.1 77.0 115.6  
141 23.4 19.4 29.0

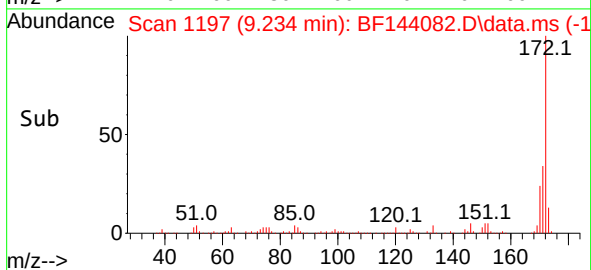
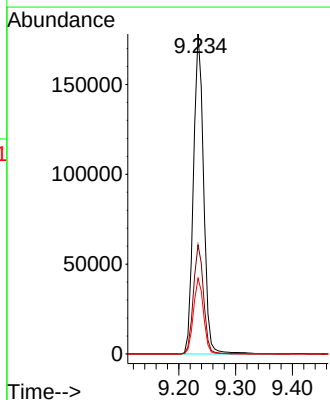
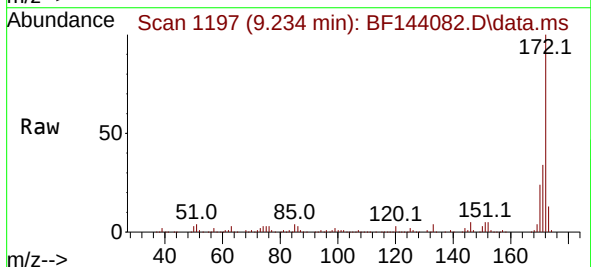
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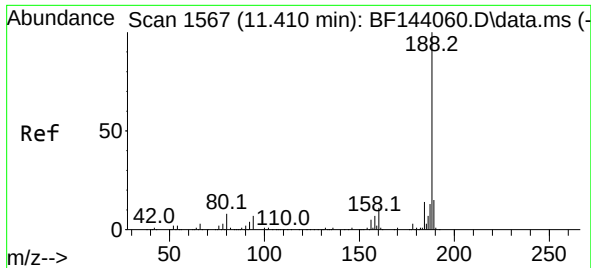
Reviewed By :Rahul Chavli 10/28/2025  
Supervised By :mohammad ahmed 10/30/2025



#45  
2-Fluorobiphenyl  
Concen: 27.018 ng  
RT: 9.234 min Scan# 1197  
Delta R.T. -0.006 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

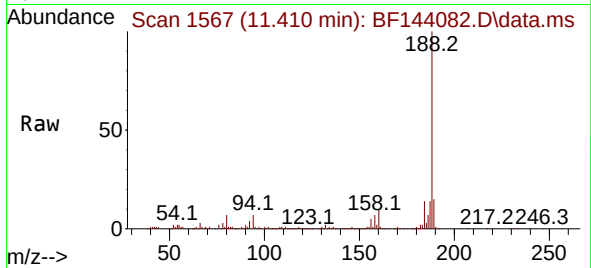
Tgt Ion:172 Resp: 223881  
Ion Ratio Lower Upper  
172 100  
171 34.1 27.5 41.3  
170 23.6 19.0 28.6





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

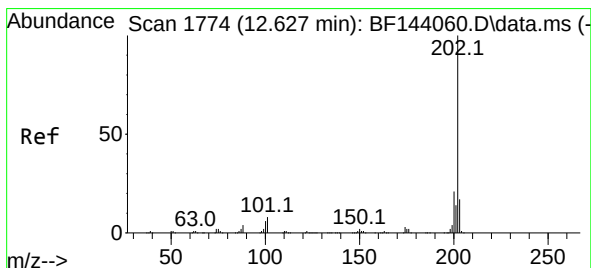
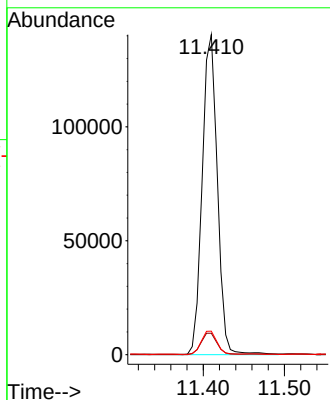
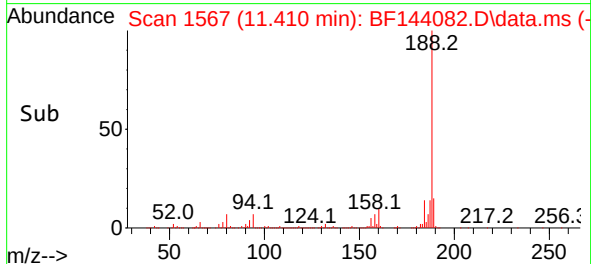
Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288



Tgt Ion:188 Resp: 18206  
Ion Ratio Lower Upper  
188 100  
94 6.7 5.4 8.0  
80 7.4 6.0 9.0

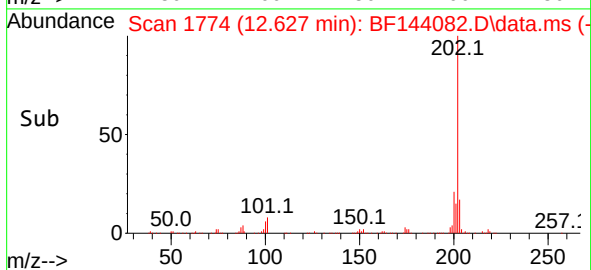
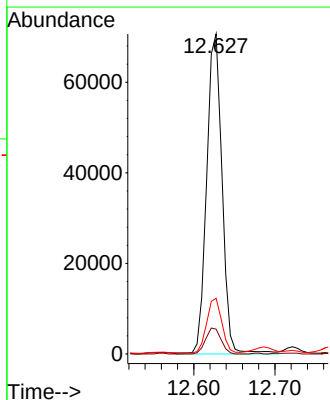
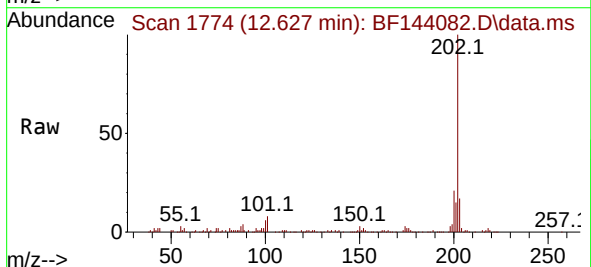
Manual Integrations  
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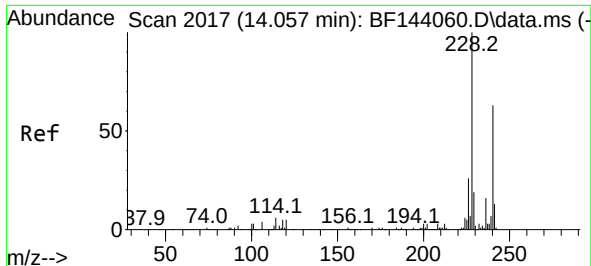
Reviewed By :Rahul Chavli 10/28/2025  
Supervised By :mohammad ahmed 10/30/2025



#75  
Fluoranthene  
Concen: 9.314 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

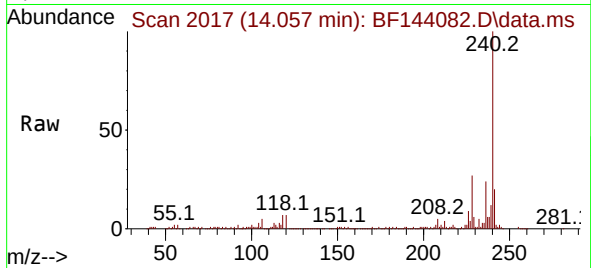
Tgt Ion:202 Resp: 93063  
Ion Ratio Lower Upper  
202 100  
101 7.8 0.0 27.7  
203 17.4 0.0 37.3





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

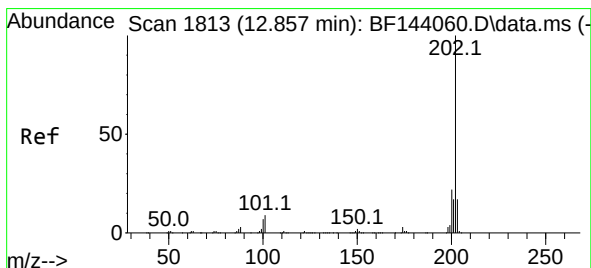
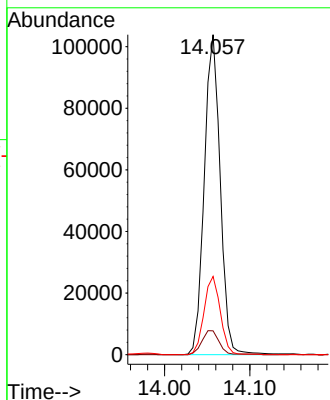
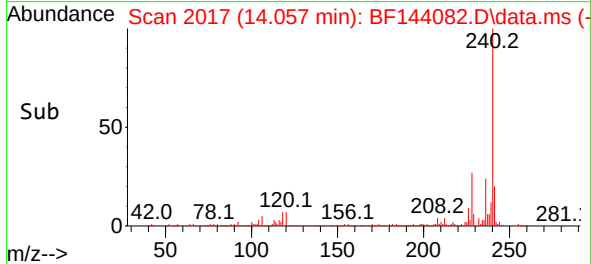
Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288



Tgt Ion:240 Resp: 134958  
Ion Ratio Lower Upper  
240 100  
120 7.4 6.5 9.7  
236 24.5 20.1 30.1

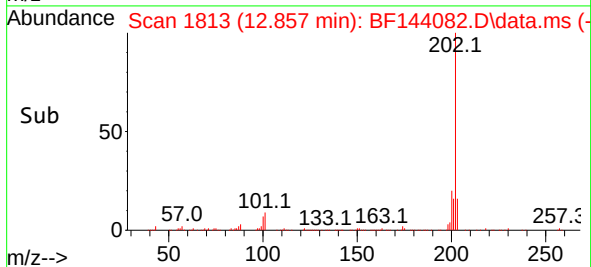
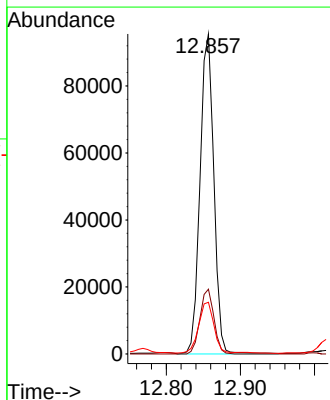
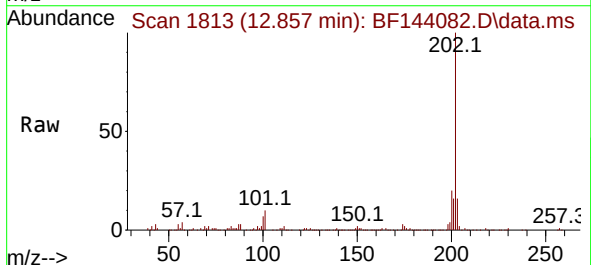
Manual Integrations  
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Supervised By :mohammad ahmed 10/30/2025

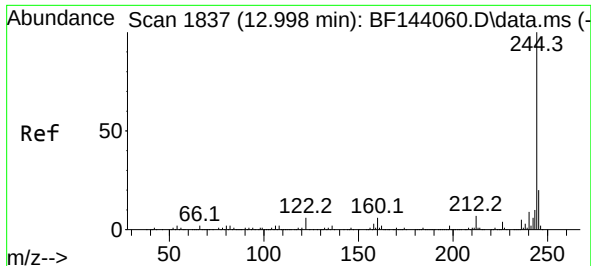


#78  
Pyrene  
Concen: 12.776 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

Tgt Ion:202 Resp: 123964  
Ion Ratio Lower Upper  
202 100  
200 20.2 17.2 25.8  
203 16.1 13.5 20.3

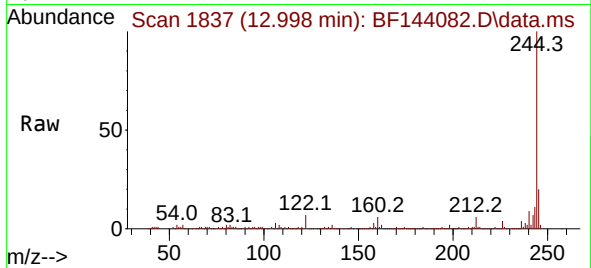






#79  
 Terphenyl-d14  
 Concen: 28.331 ng  
 RT: 12.998 min Scan# 1837  
 Delta R.T. 0.000 min  
 Lab File: BF144082.D  
 Acq: 27 Oct 2025 14:34

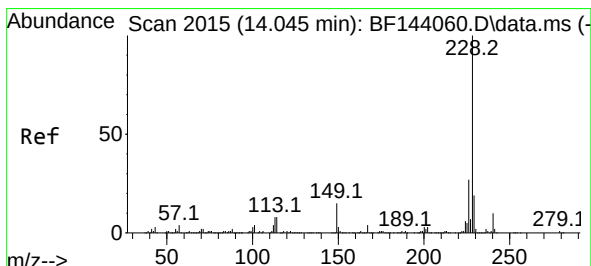
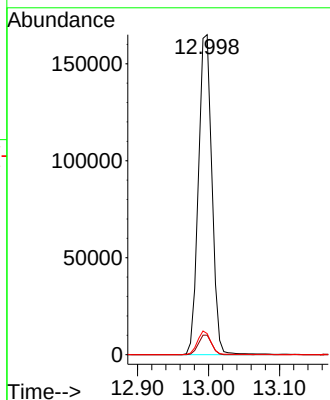
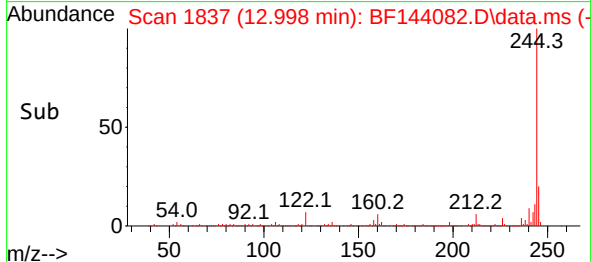
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MOO-25-0285-0288



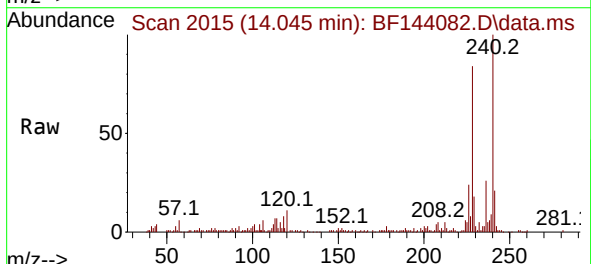
Tgt Ion:244 Resp: 21871  
 Ion Ratio Lower Upper  
 244 100  
 212 6.1 5.8 8.6  
 122 6.6 4.9 7.3

Manual Integrations  
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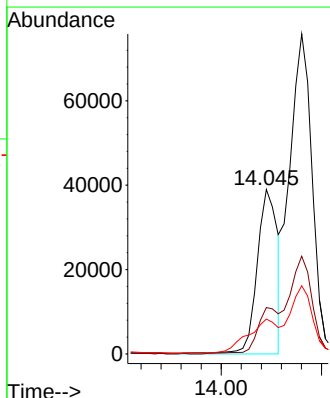
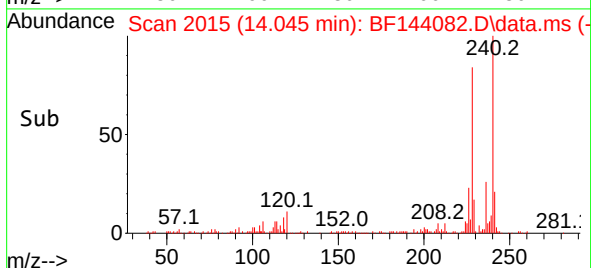
Reviewed By :Rahul Chavli 10/28/2025  
 Supervised By :mohammad ahmed 10/30/2025

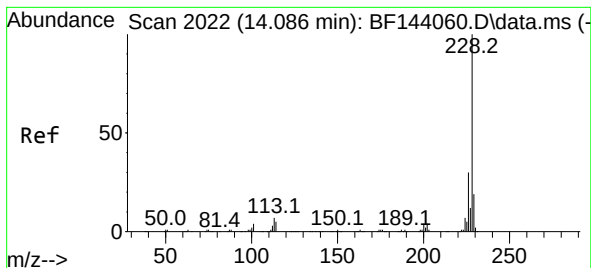


#81  
 Benzo(a)anthracene  
 Concen: 6.028 ng  
 RT: 14.045 min Scan# 2015  
 Delta R.T. 0.000 min  
 Lab File: BF144082.D  
 Acq: 27 Oct 2025 14:34



Tgt Ion:228 Resp: 54978  
 Ion Ratio Lower Upper  
 228 100  
 226 28.3 21.4 32.2  
 229 21.2 15.3 22.9





#83

Chrysene

Concen: 13.742 ng

RT: 14.080 min Scan# 2022

Delta R.T. -0.006 min

Lab File: BF144082.D

Acq: 27 Oct 2025 14:34

Instrument :

BNA\_F

ClientSampleId :

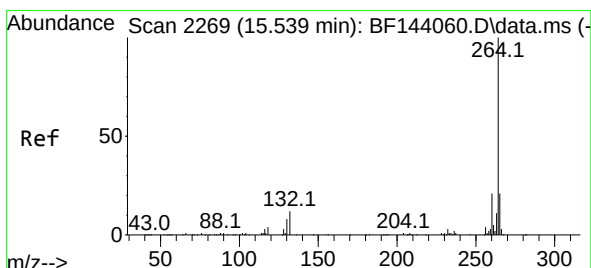
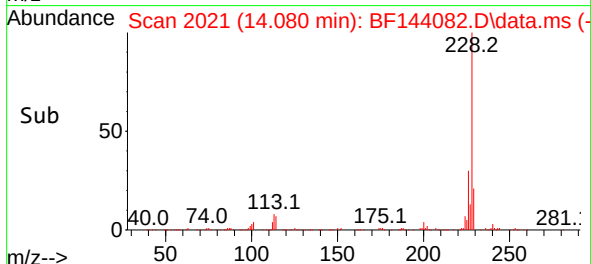
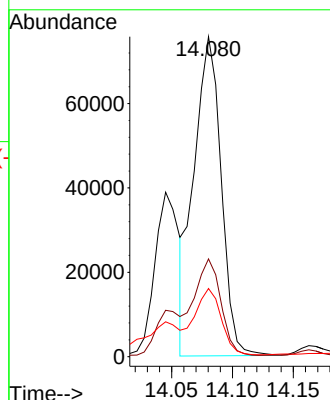
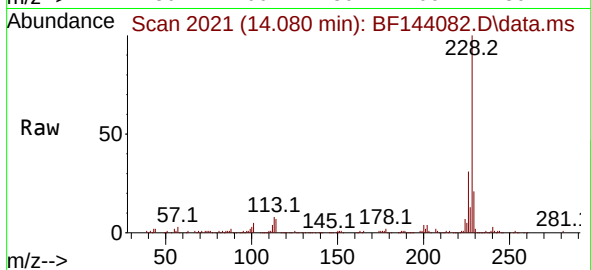
MOO-25-0285-0288

Tgt Ion:228 Resp: 117615  
 Ion Ratio Lower Upper  
 228 100  
 226 30.6 23.8 35.6  
 229 21.3 15.6 23.4

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Reviewed By :Rahul Chavli 10/28/2025  
 Supervised By :mohammad ahmed 10/30/2025



#86

Perylene-d12

Concen: 20.000 ng

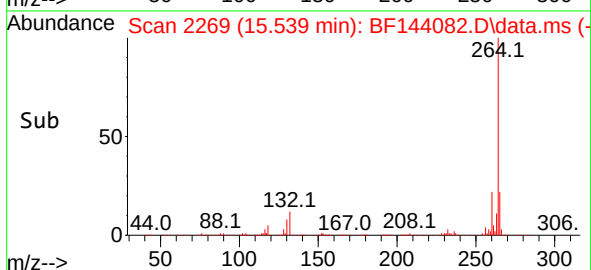
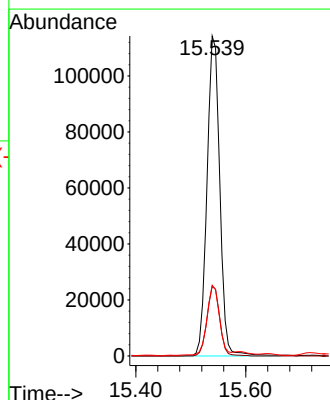
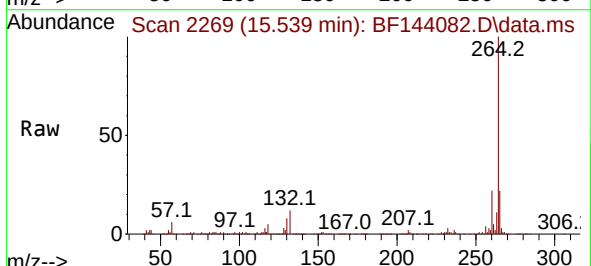
RT: 15.539 min Scan# 2269

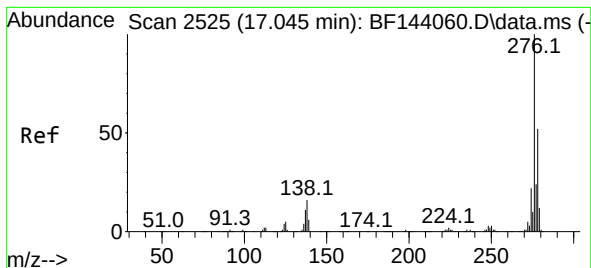
Delta R.T. 0.000 min

Lab File: BF144082.D

Acq: 27 Oct 2025 14:34

Tgt Ion:264 Resp: 184122  
 Ion Ratio Lower Upper  
 264 100  
 260 21.7 17.0 25.4  
 265 22.1 16.6 24.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.581 ng

RT: 17.039 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF144082.D

Acq: 27 Oct 2025 14:34

Instrument :

BNA\_F

ClientSampleId :

MOO-25-0285-0288

Tgt Ion:276 Resp: 32630

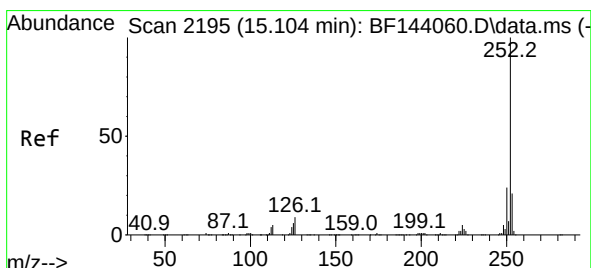
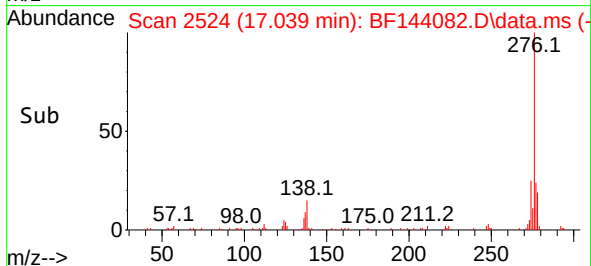
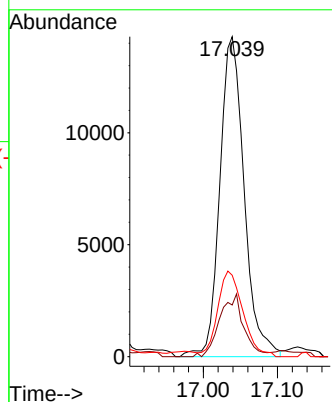
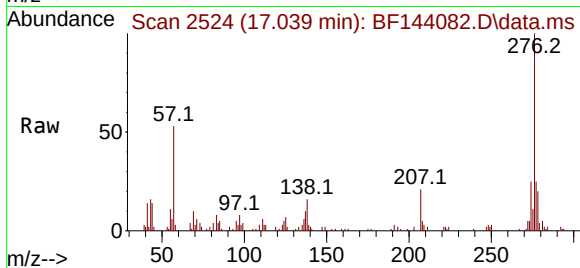
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 19.3  | 13.0  | 19.6  |
| 277 | 27.8  | 19.4  | 29.0  |

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#88

Benzo(b)fluoranthene

Concen: 13.582 ng m

RT: 15.104 min Scan# 2195

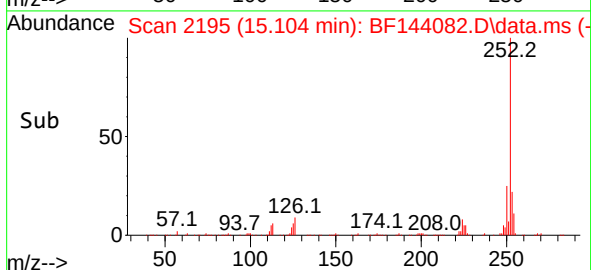
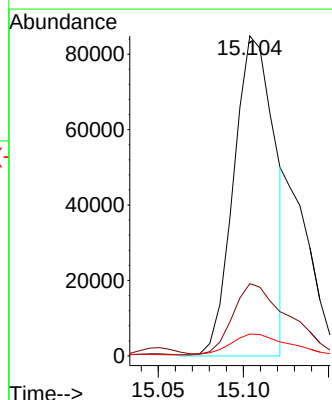
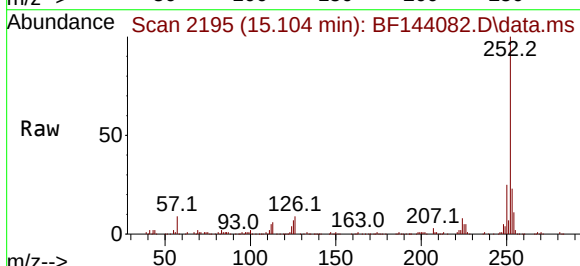
Delta R.T. 0.000 min

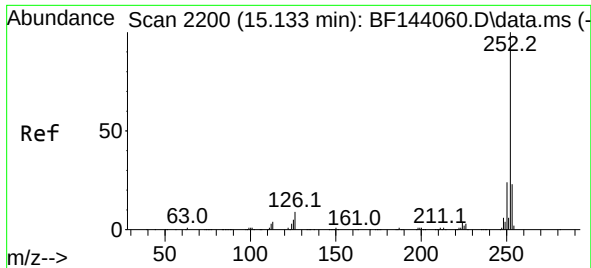
Lab File: BF144082.D

Acq: 27 Oct 2025 14:34

Tgt Ion:252 Resp: 141380

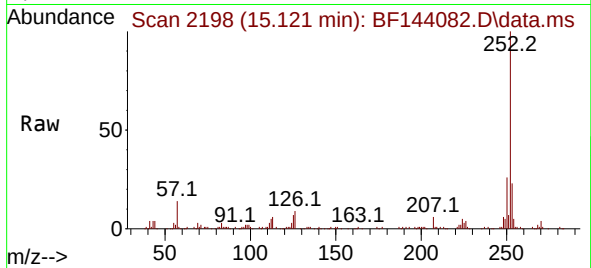
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.6  | 17.2  | 25.8  |
| 125 | 6.9   | 5.0   | 7.6   |





#89  
Benzo(k)fluoranthene  
Concen: 5.141 ng m  
RT: 15.121 min Scan# 2198  
Delta R.T. -0.012 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

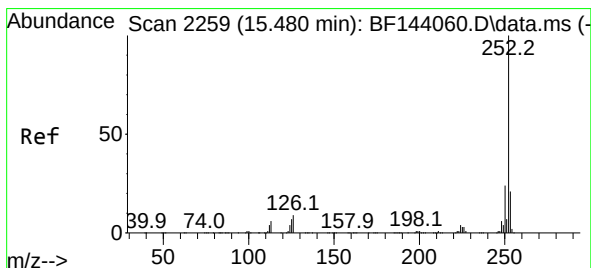
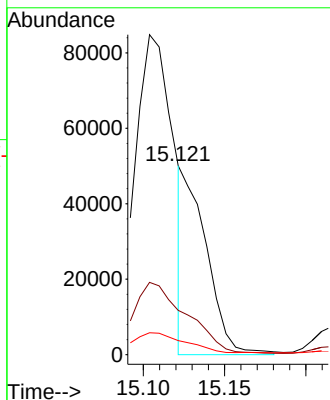
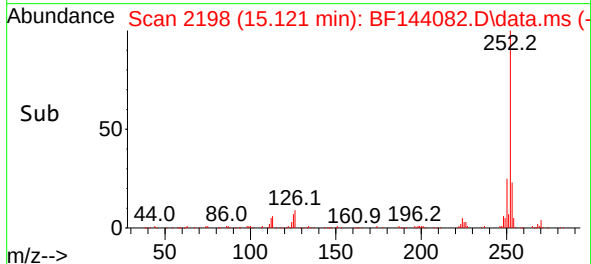
Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288



Tgt Ion:252 Resp: 4937  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.4 26.2  
125 7.5 4.9 7.3

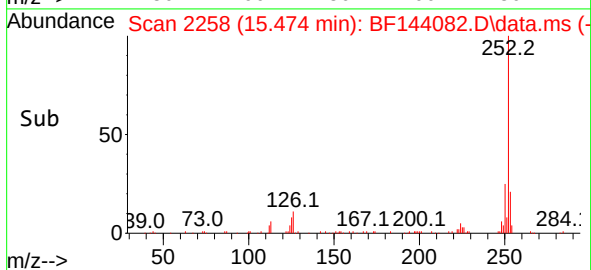
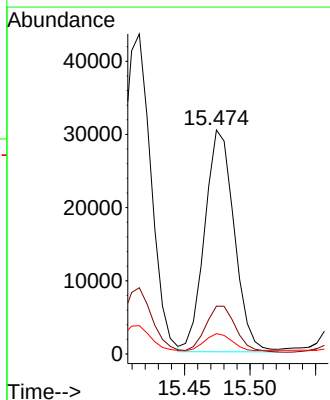
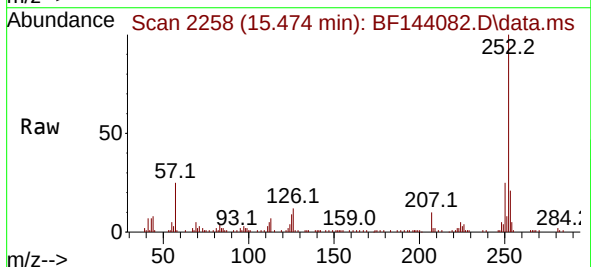
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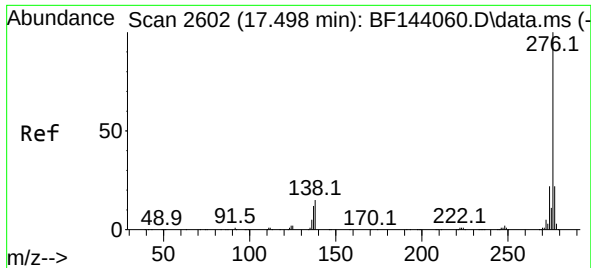
Reviewed By :Rahul Chavli 10/28/2025  
Supervised By :mohammad ahmed 10/30/2025



#90  
Benzo(a)pyrene  
Concen: 5.098 ng  
RT: 15.474 min Scan# 2258  
Delta R.T. -0.006 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

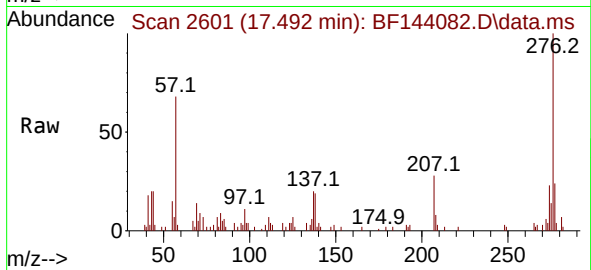
Tgt Ion:252 Resp: 47606  
Ion Ratio Lower Upper  
252 100  
253 21.4 17.1 25.7  
125 9.0 5.4 8.2





#92  
Benzo(g,h,i)perylene  
Concen: 2.585 ng  
RT: 17.492 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF144082.D  
Acq: 27 Oct 2025 14:34

Instrument :  
BNA\_F  
ClientSampleId :  
MOO-25-0285-0288



Tgt Ion:276 Resp: 2600  
Ion Ratio Lower Upper  
276 100  
277 23.8 17.9 26.9  
138 18.8 12.0 18.0

Manual Integrations  
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Reviewed By :Rahul Chavli 10/28/2025  
Supervised By :mohammad ahmed 10/30/2025

