

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081925\  
 Data File : BF143455.D  
 Acq On : 19 Aug 2025 14:28  
 Operator : RC/JU  
 Sample : Q2879-09  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OU4-TS-GRILLO-TSCP07-081425

Quant Time: Aug 19 14:51:40 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 18 04:40:19 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/20/2025  
 Supervised By :Jagrut Upadhyay 08/20/2025

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.928  | 152  | 81535    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.204  | 136  | 266043   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.963  | 164  | 139719   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.445 | 188  | 269890   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.086 | 240  | 272023   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.580 | 264  | 174368   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.563  | 112  | 408333   | 87.057  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.557  | 99   | 437182   | 73.960  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.481  | 82   | 275314   | 61.407  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.751 | 330  | 128719   | 103.505 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.281  | 172  | 499605   | 60.144  | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.027 | 244  | 755405   | 46.649  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene              | 11.469 | 178  | 43999    | 3.011   | ng    | 99       |
| 74) Di-n-butylphthalate       | 12.004 | 149  | 30134    | 2.424   | ng    | 98       |
| 75) Fluoranthene              | 12.663 | 202  | 136964   | 10.547  | ng    | 99       |
| 78) Pyrene                    | 12.892 | 202  | 122974   | 5.201   | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.080 | 228  | 67916    | 3.922   | ng    | 93       |
| 83) Chrysene                  | 14.110 | 228  | 74599    | 4.659   | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 14.057 | 149  | 74678    | 8.979   | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.098 | 276  | 29277    | 2.239   | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.145 | 252  | 75381m   | 8.066   | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.163 | 252  | 20741m   | 2.250   | ng    |          |
| 90) Benzo(a)pyrene            | 15.515 | 252  | 40917    | 4.597   | ng    | # 89     |
| 92) Benzo(g,h,i)perylene      | 17.562 | 276  | 29859    | 2.846   | ng    | # 91     |
| -----                         |        |      |          |         |       |          |

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

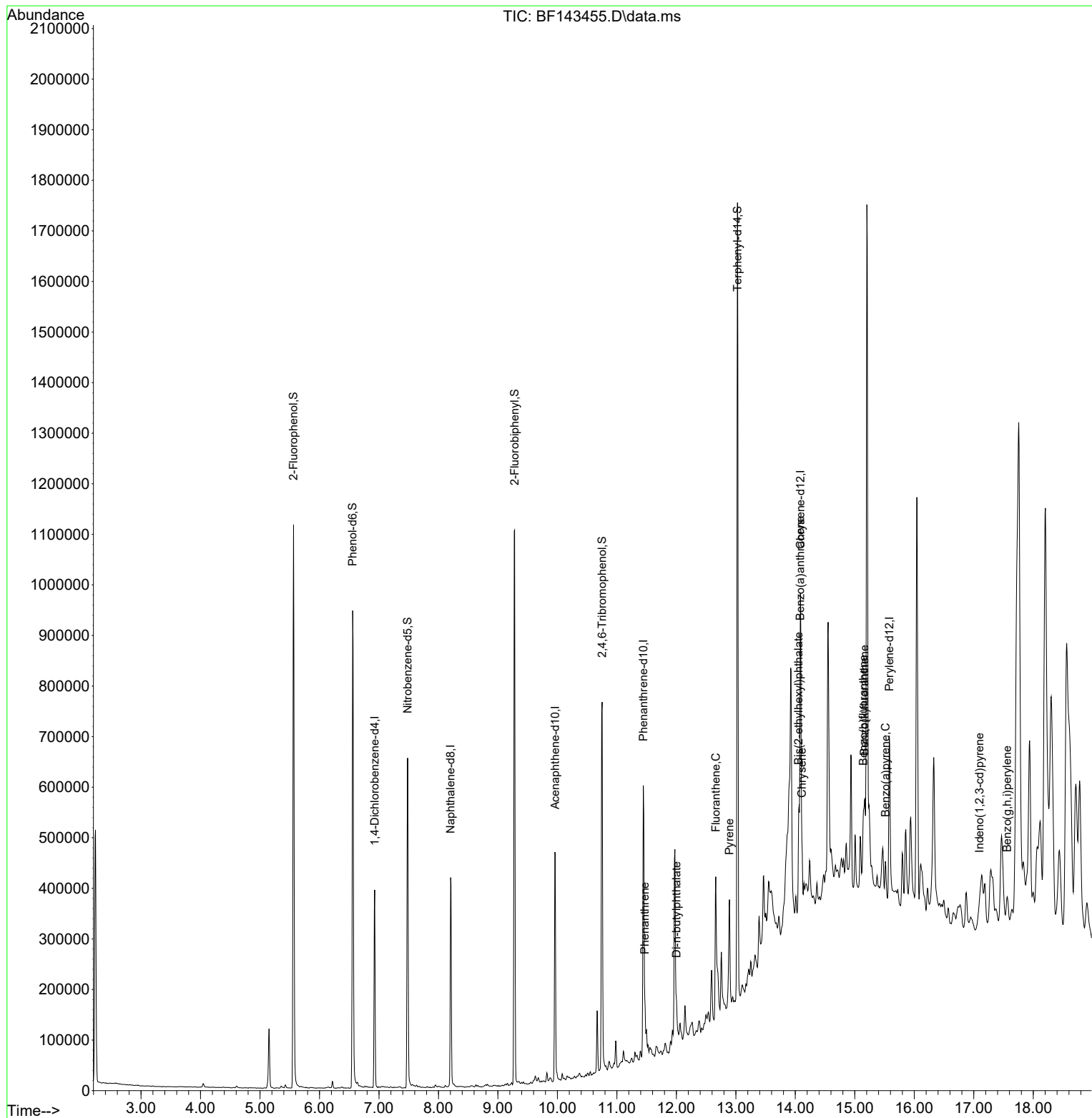
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081925\  
Data File : BF143455.D  
Acq On : 19 Aug 2025 14:28  
Operator : RC/JU  
Sample : Q2879-09  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

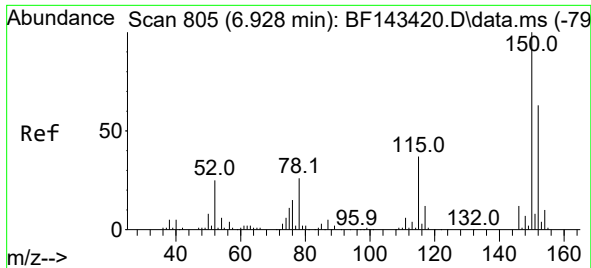
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP07-081425

Quant Time: Aug 19 14:51:40 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 18 04:40:19 2025  
Response via : Initial Calibration

Manual Integrations  
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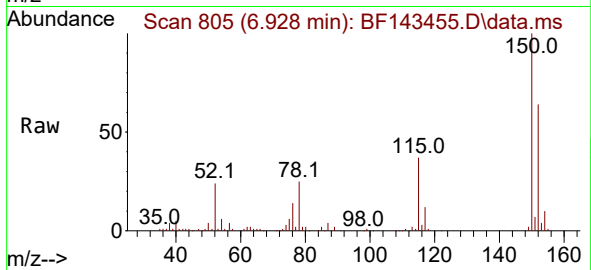
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.928 min Scan# 805  
Delta R.T. -0.000 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

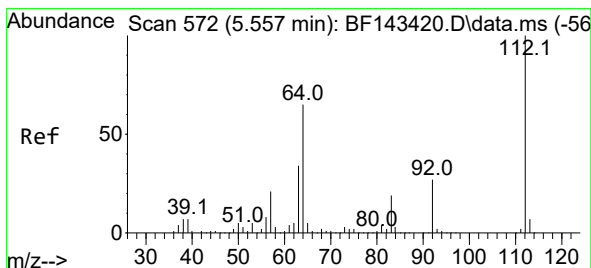
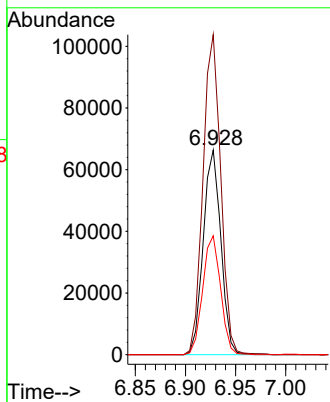
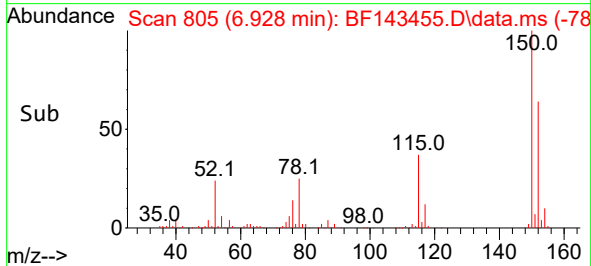
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP07-081425



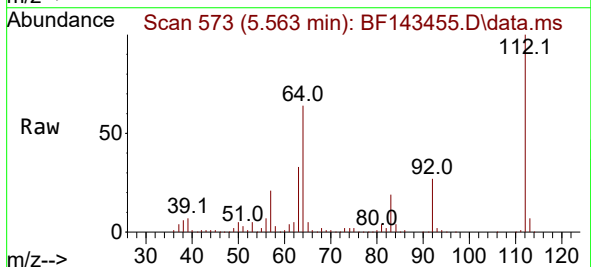
Tgt Ion:152 Resp: 81538  
Ion Ratio Lower Upper  
152 100  
150 156.4 127.4 191.2  
115 58.1 47.5 71.3

Manual Integrations  
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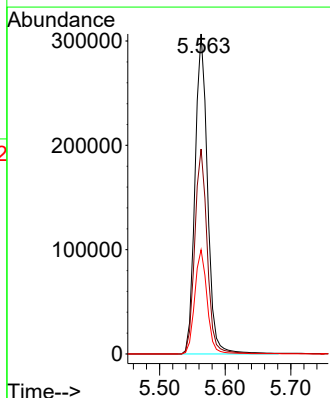
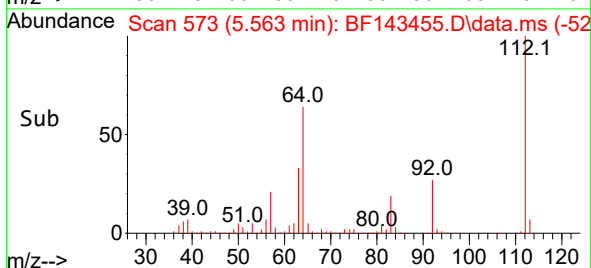
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

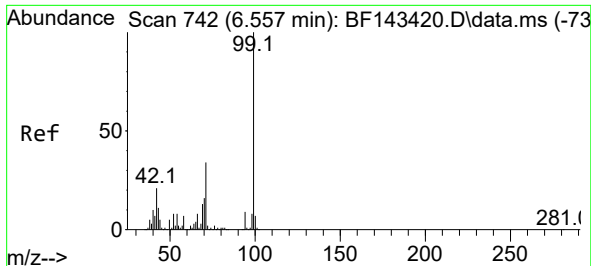


#5  
2-Fluorophenol  
Concen: 87.057 ng  
RT: 5.563 min Scan# 573  
Delta R.T. 0.006 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28



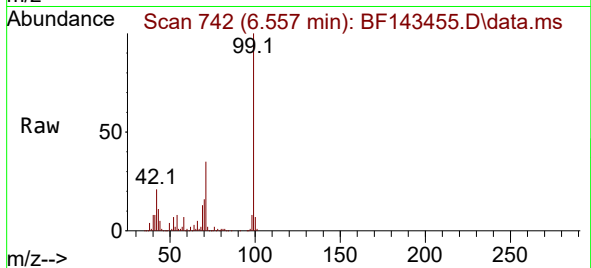
Tgt Ion:112 Resp: 408333  
Ion Ratio Lower Upper  
112 100  
64 64.0 52.2 78.2  
63 32.5 27.0 40.6





#7  
Phenol-d6  
Concen: 73.960 ng  
RT: 6.557 min Scan# 742  
Delta R.T. -0.000 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

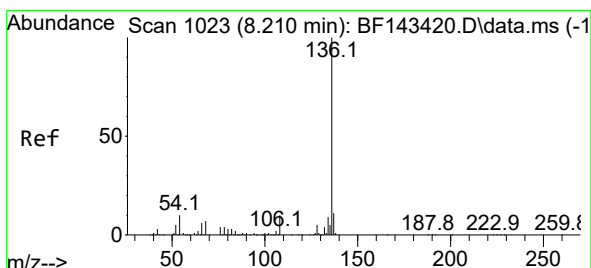
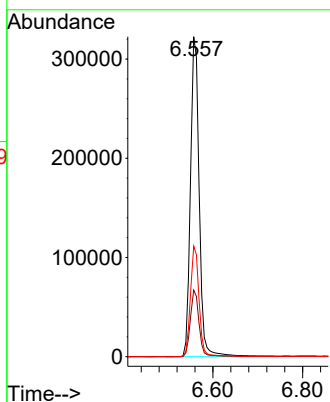
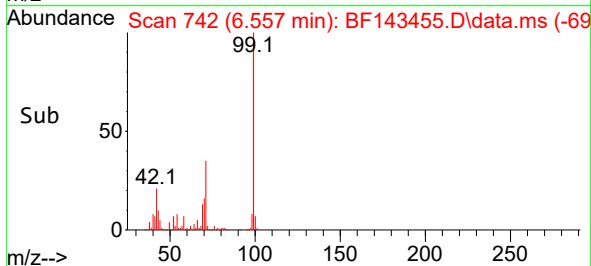
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP07-081425



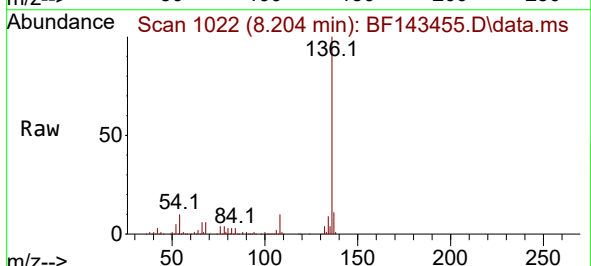
Tgt Ion: 99 Resp: 43718  
Ion Ratio Lower Upper  
99 100  
42 20.8 17.0 25.6  
71 34.5 27.4 41.2

Manual Integrations  
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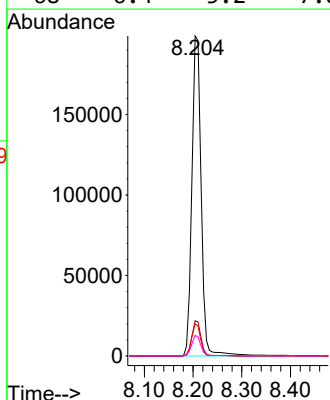
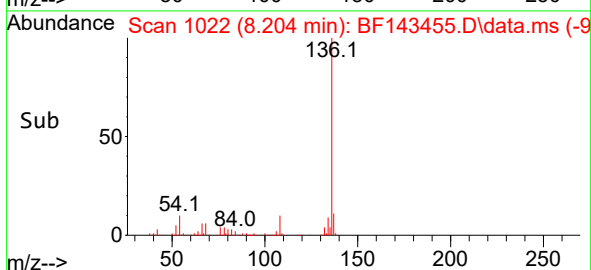
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

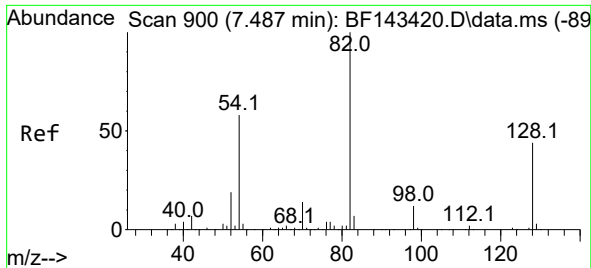


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.204 min Scan# 1022  
Delta R.T. -0.006 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28



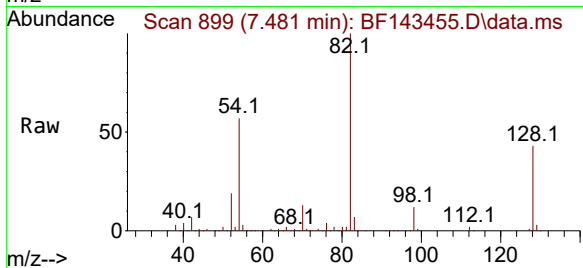
Tgt Ion:136 Resp: 266043  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.8 13.2  
54 10.0 7.8 11.8  
68 6.4 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 61.407 ng  
RT: 7.481 min Scan# 899  
Delta R.T. -0.006 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

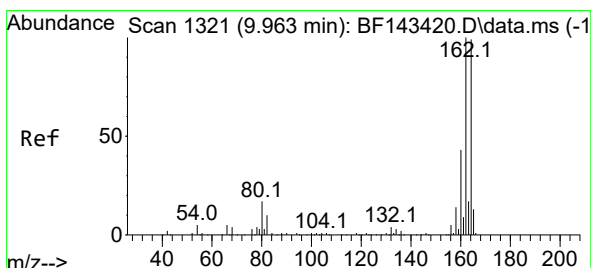
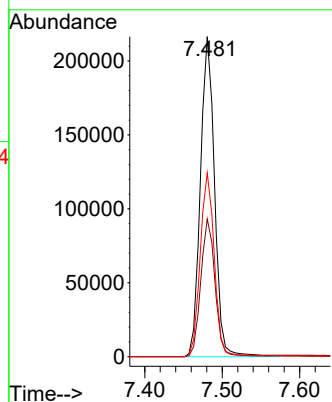
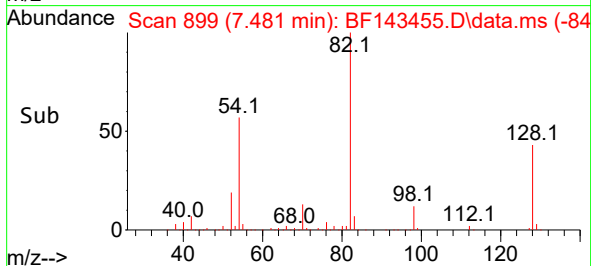
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP07-081425



Tgt Ion: 82 Resp: 275314  
Ion Ratio Lower Upper  
82 100  
128 43.1 34.6 52.0  
54 57.4 46.0 69.0

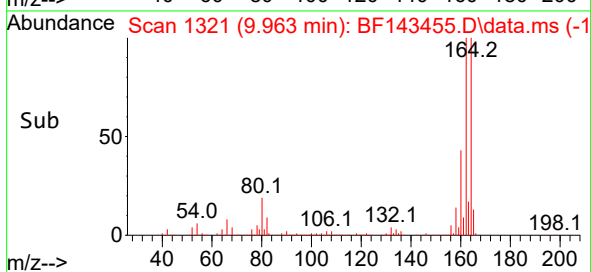
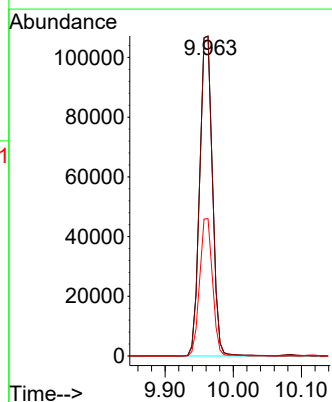
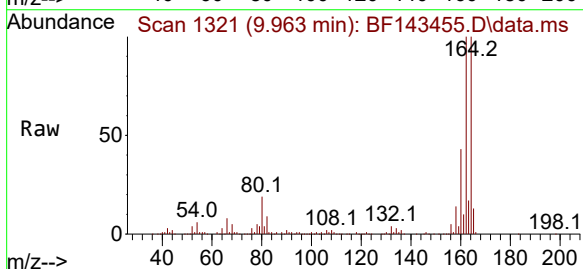
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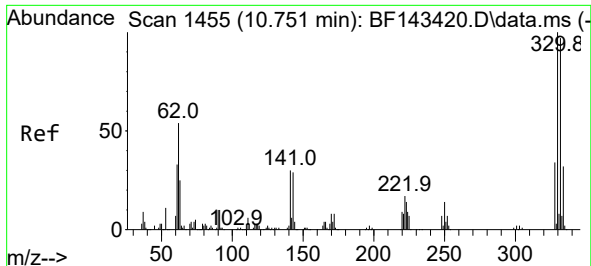
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.963 min Scan# 1321  
Delta R.T. -0.000 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

Tgt Ion:164 Resp: 139719  
Ion Ratio Lower Upper  
164 100  
162 99.9 80.6 121.0  
160 42.9 34.6 51.8





#42

2,4,6-Tribromophenol

Concen: 103.505 ng

RT: 10.751 min Scan# 1455

Delta R.T. -0.000 min

Lab File: BF143455.D

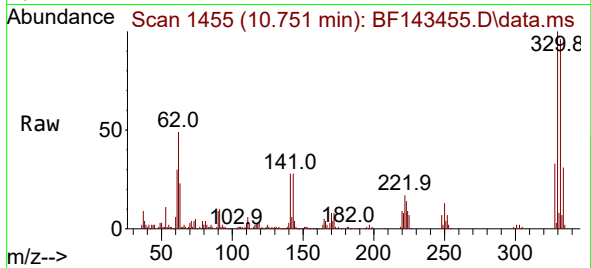
Acq: 19 Aug 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP07-081425



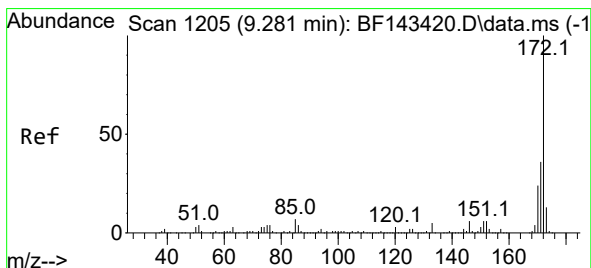
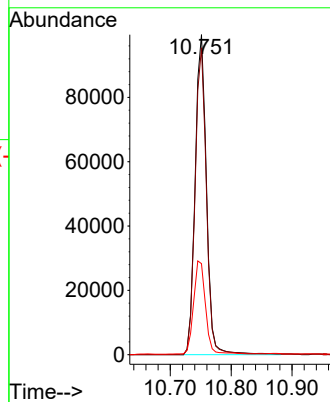
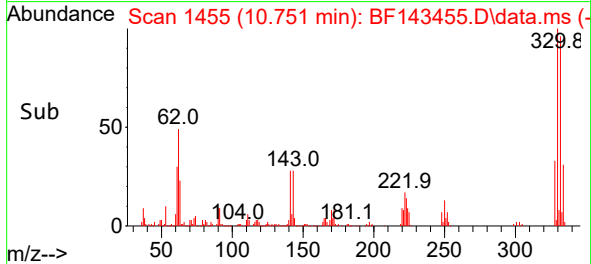
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 128719 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.4  | 77.4  | 116.2  |
| 141       | 30.6  | 24.1  | 36.1   |

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#45

2-Fluorobiphenyl

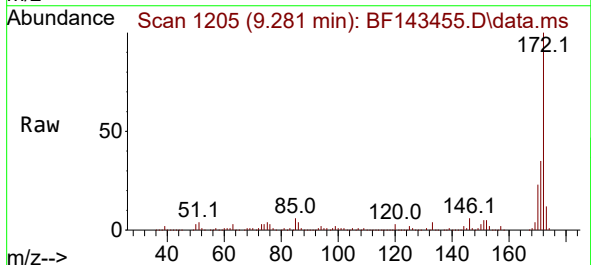
Concen: 60.144 ng

RT: 9.281 min Scan# 1205

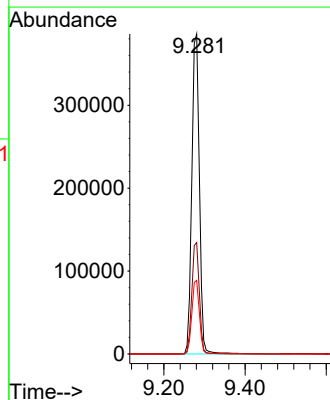
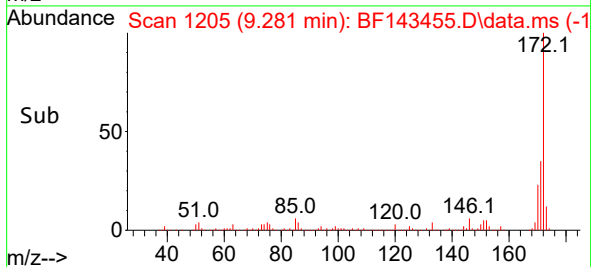
Delta R.T. -0.000 min

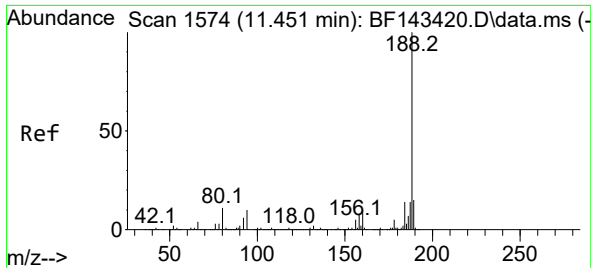
Lab File: BF143455.D

Acq: 19 Aug 2025 14:28



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 499605 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 34.8  | 28.7  | 43.1   |
| 170       | 23.0  | 19.0  | 28.6   |





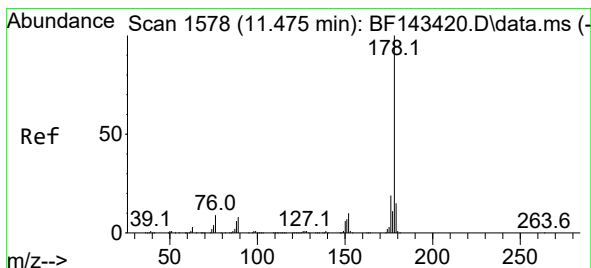
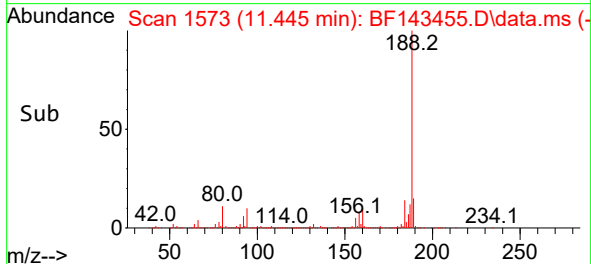
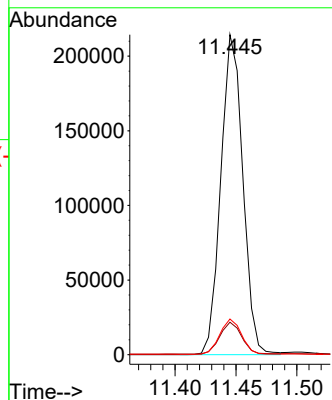
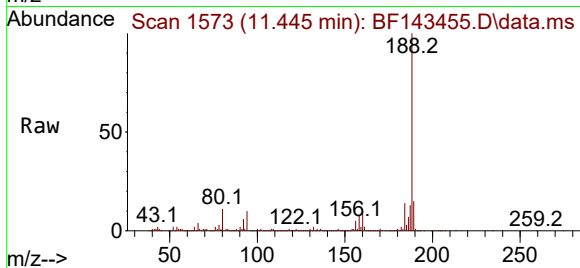
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.445 min Scan# 1573  
Delta R.T. -0.006 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP07-081425

Tgt Ion:188 Resp: 269890  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.0 12.0  
80 11.2 8.6 12.8

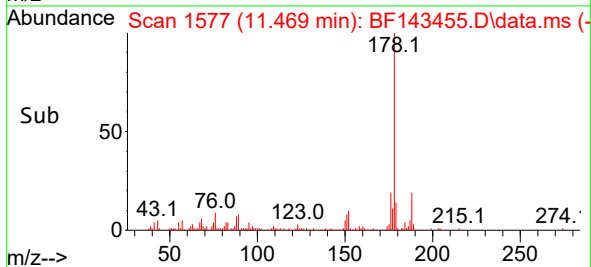
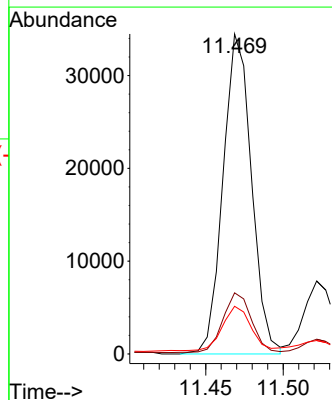
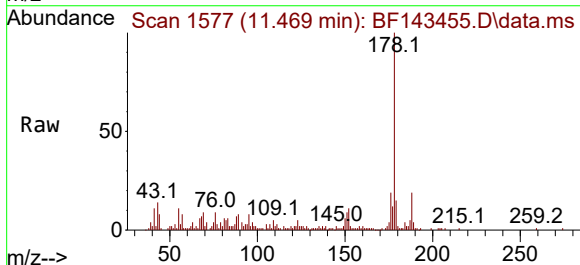
Manual Integrations  
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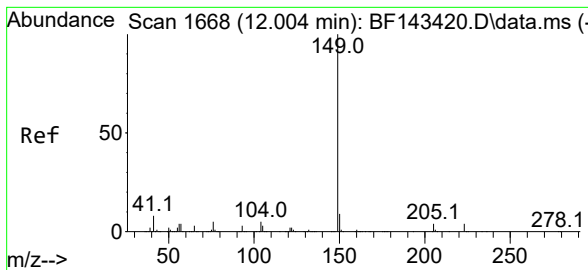
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#71  
Phenanthrene  
Concen: 3.011 ng  
RT: 11.469 min Scan# 1577  
Delta R.T. -0.006 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

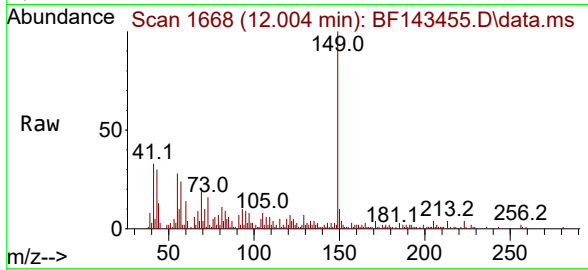
Tgt Ion:178 Resp: 43999  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.0  
179 14.9 12.3 18.5





#74  
Di-n-butylphthalate  
Concen: 2.424 ng  
RT: 12.004 min Scan# 1668  
Delta R.T. -0.000 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

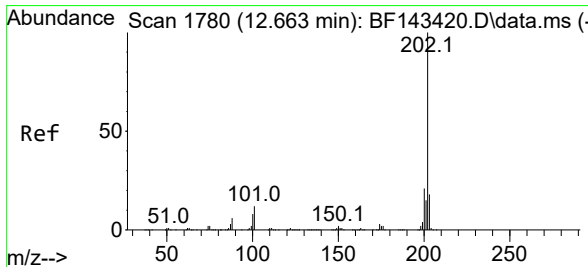
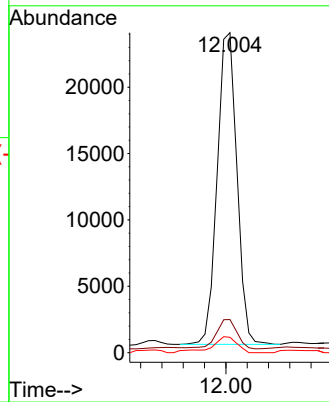
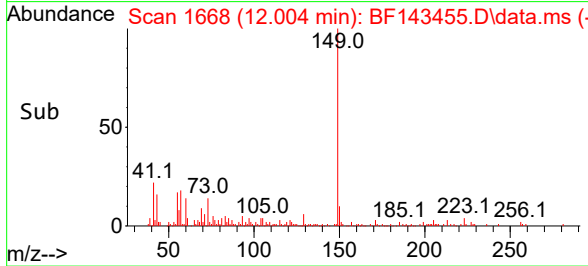
Instrument : BNA\_F  
ClientSampleId : OU4-TS-GRILLO-TSCP07-081425



Tgt Ion:149 Resp: 30134  
Ion Ratio Lower Upper  
149 100  
150 10.4 7.3 10.9  
104 4.8 3.8 5.6

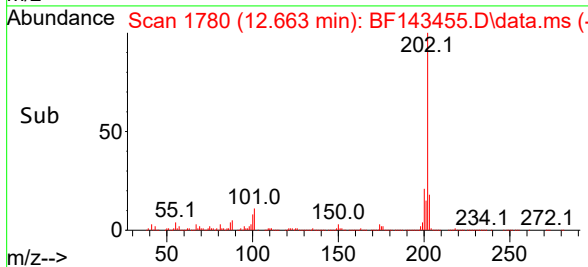
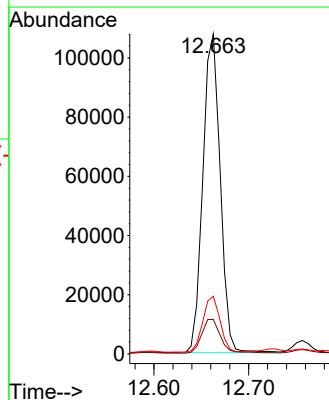
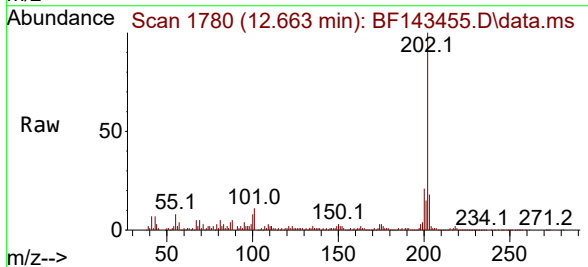
Manual Integrations  
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Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

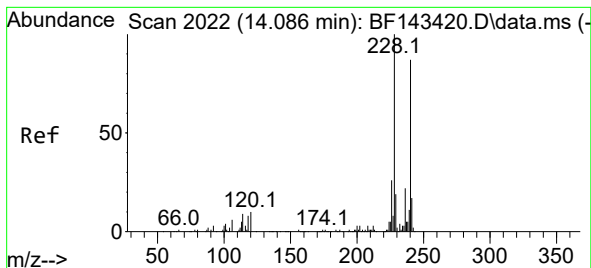


#75  
Fluoranthene  
Concen: 10.547 ng  
RT: 12.663 min Scan# 1780  
Delta R.T. -0.000 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

Tgt Ion:202 Resp: 136964  
Ion Ratio Lower Upper  
202 100  
101 10.8 0.0 31.5  
203 18.0 0.0 37.5







#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.086 min Scan# 2022

Delta R.T. -0.000 min

Lab File: BF143455.D

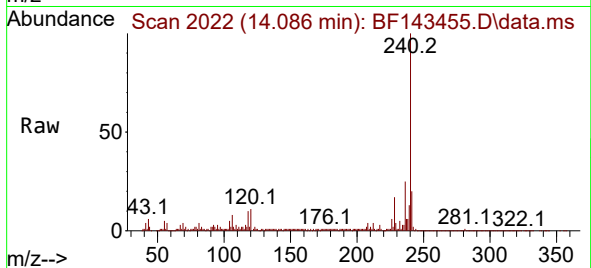
Acq: 19 Aug 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP07-081425



Tgt Ion: 240 Resp: 27202

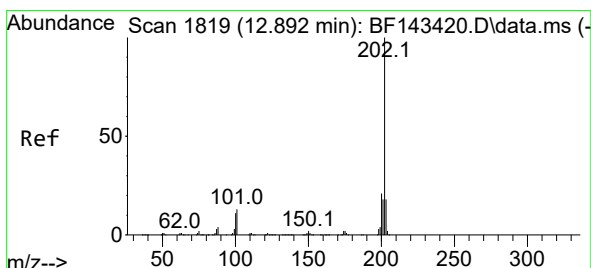
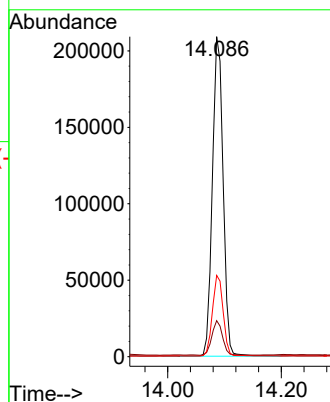
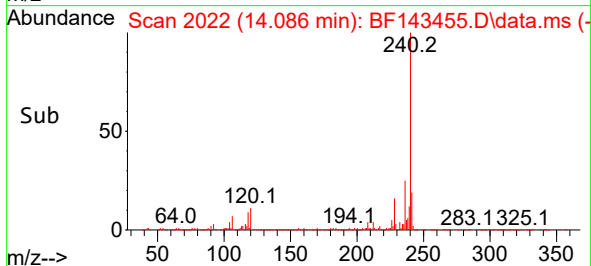
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 11.2  | 9.0   | 13.4  |
| 236 | 25.4  | 20.2  | 30.2  |

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#78

Pyrene

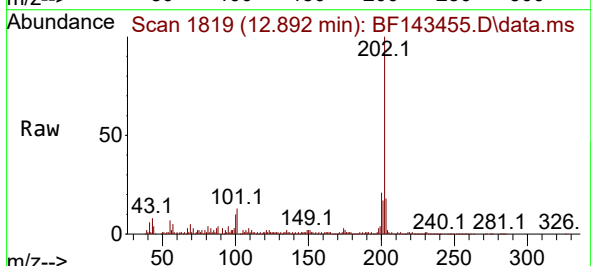
Concen: 5.201 ng

RT: 12.892 min Scan# 1819

Delta R.T. -0.000 min

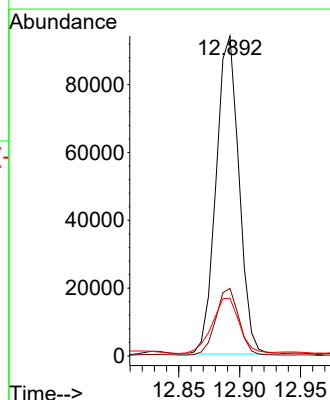
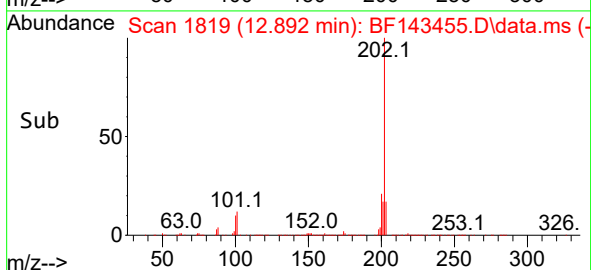
Lab File: BF143455.D

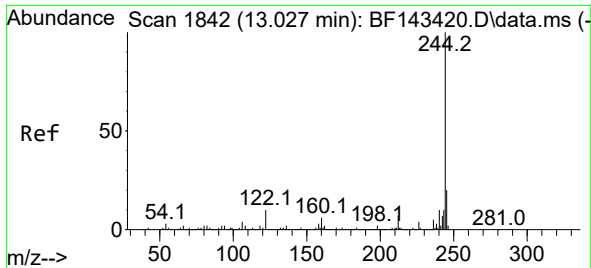
Acq: 19 Aug 2025 14:28



Tgt Ion: 202 Resp: 122974

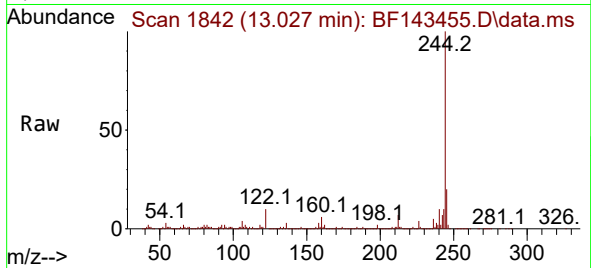
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.1  | 17.1  | 25.7  |
| 203 | 18.1  | 14.2  | 21.2  |





#79  
 Terphenyl-d14  
 Concen: 46.649 ng  
 RT: 13.027 min Scan# 1842  
 Delta R.T. -0.000 min  
 Lab File: BF143455.D  
 Acq: 19 Aug 2025 14:28

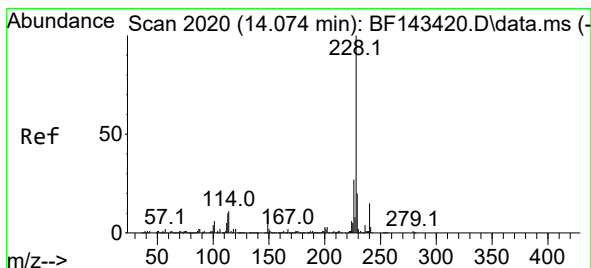
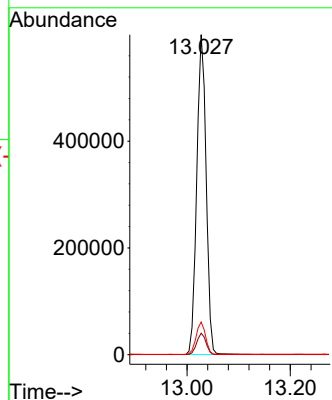
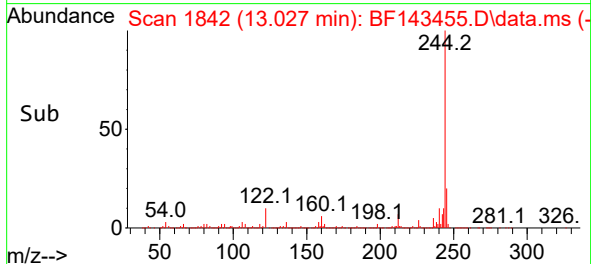
Instrument : BNA\_F  
 ClientSampleId : OU4-TS-GRILLO-TSCP07-081425



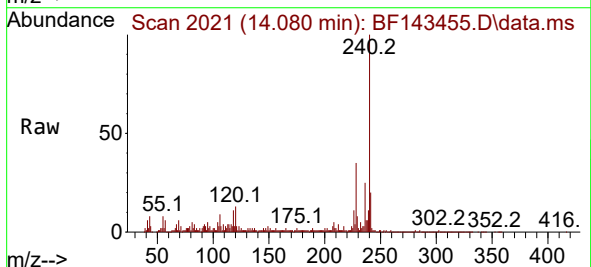
Tgt Ion:244 Resp: 75540  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.2 7.8  
 122 10.2 8.3 12.5

Manual Integrations  
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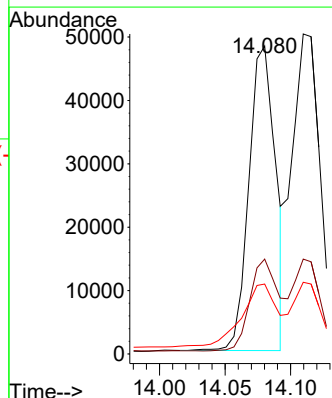
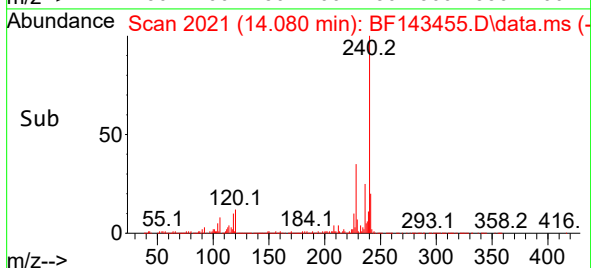
Reviewed By :Rahul Chavli 08/20/2025  
 Supervised By :Jagrut Upadhyay 08/20/2025

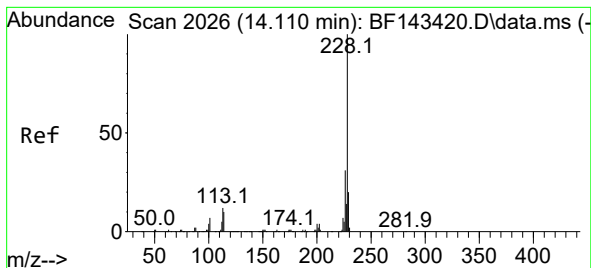


#81  
 Benzo(a)anthracene  
 Concen: 3.922 ng  
 RT: 14.080 min Scan# 2021  
 Delta R.T. 0.006 min  
 Lab File: BF143455.D  
 Acq: 19 Aug 2025 14:28



Tgt Ion:228 Resp: 67916  
 Ion Ratio Lower Upper  
 228 100  
 226 30.8 21.5 32.3  
 229 22.7 15.7 23.5





#83

Chrysene

Concen: 4.659 ng

RT: 14.110 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF143455.D

Acq: 19 Aug 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP07-081425

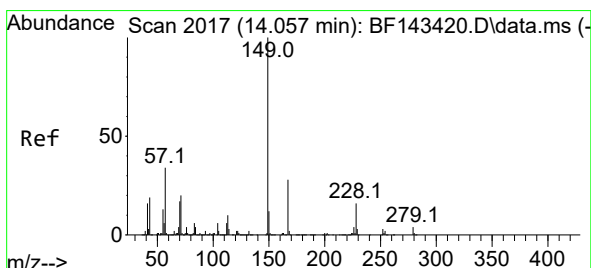
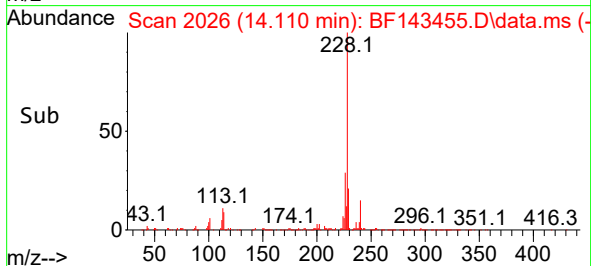
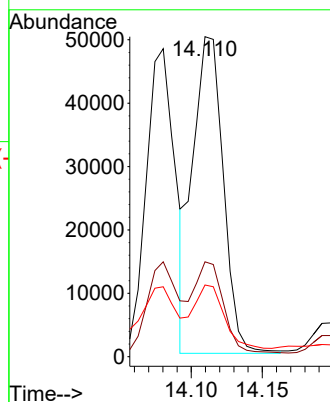
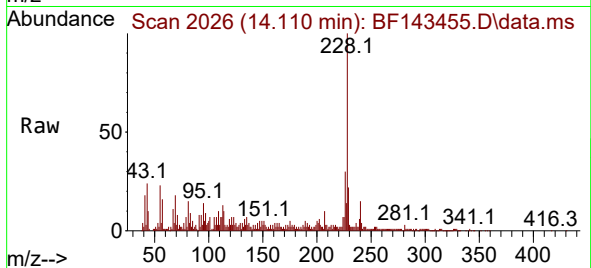
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 74599 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.7  | 24.3  | 36.5  |
| 229       | 22.4  | 16.1  | 24.1  |

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 8.979 ng

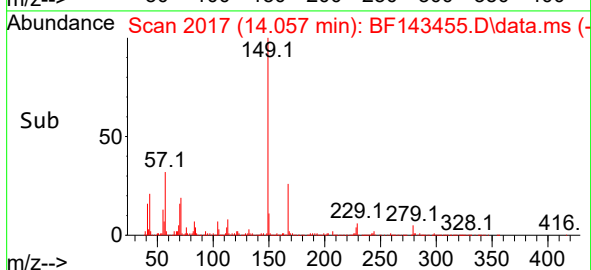
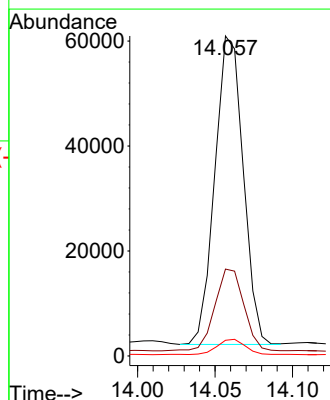
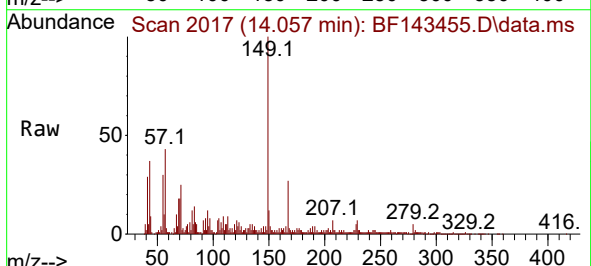
RT: 14.057 min Scan# 2017

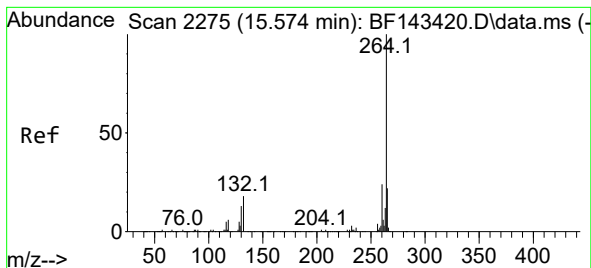
Delta R.T. -0.000 min

Lab File: BF143455.D

Acq: 19 Aug 2025 14:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 74678 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 27.1  | 22.6  | 33.8  |
| 279       | 4.9   | 3.5   | 5.3   |





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.580 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143455.D

Acq: 19 Aug 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP07-081425

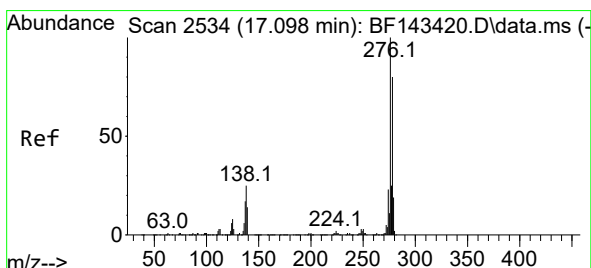
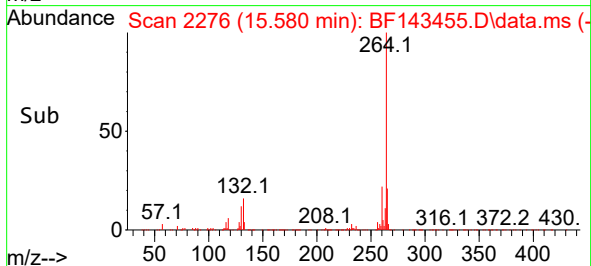
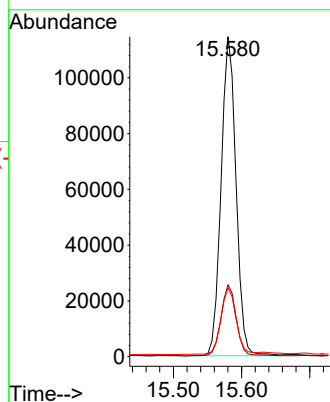
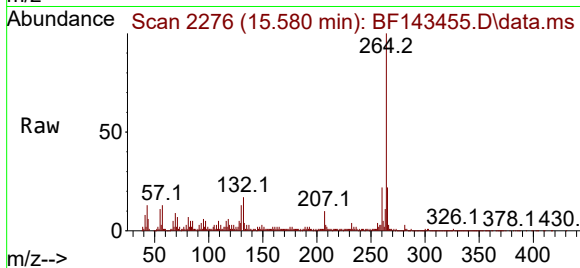
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 17436 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 22.4  | 18.8  | 28.2  |
| 265       | 21.6  | 17.4  | 26.0  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.239 ng

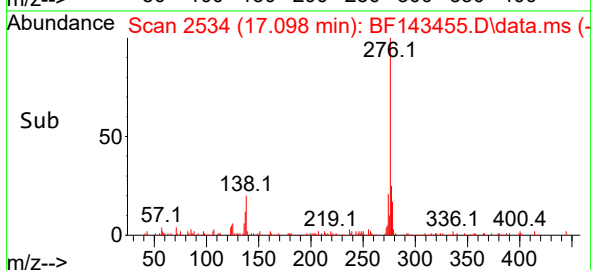
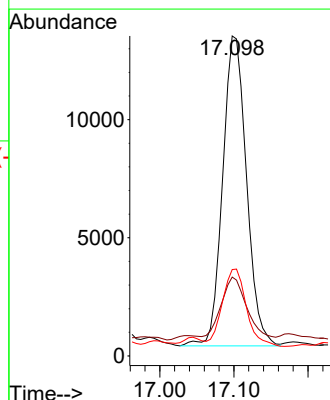
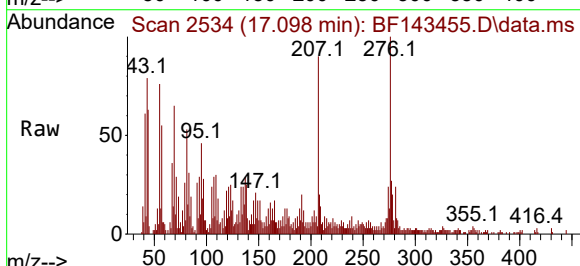
RT: 17.098 min Scan# 2534

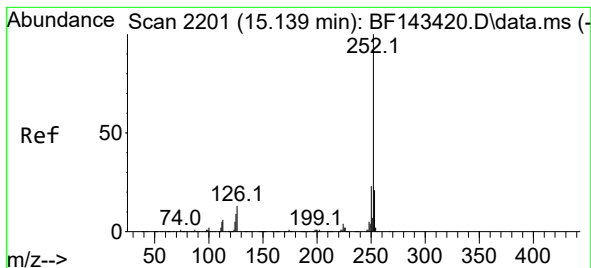
Delta R.T. -0.000 min

Lab File: BF143455.D

Acq: 19 Aug 2025 14:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 29277 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 21.5  | 20.2  | 30.4  |
| 277       | 25.2  | 20.2  | 30.2  |





#88

Benzo(b)fluoranthene

Concen: 8.066 ng m

RT: 15.145 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143455.D

Acq: 19 Aug 2025 14:28

Instrument :

BNF

ClientSampleId :

OU4-TS-GRILLO-TSCP07-081425

Tgt Ion:252 Resp: 7538

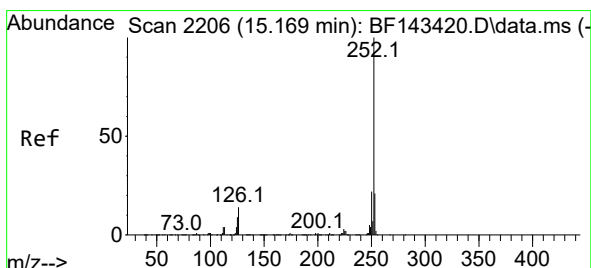
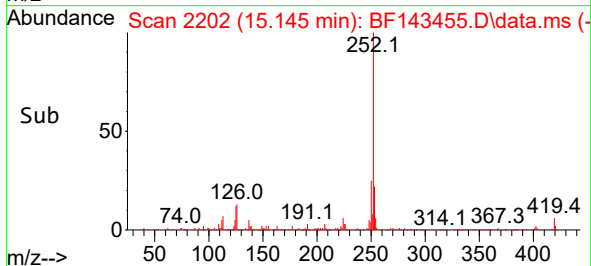
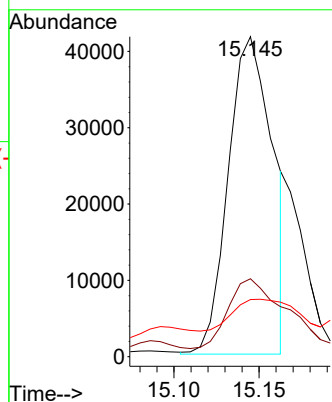
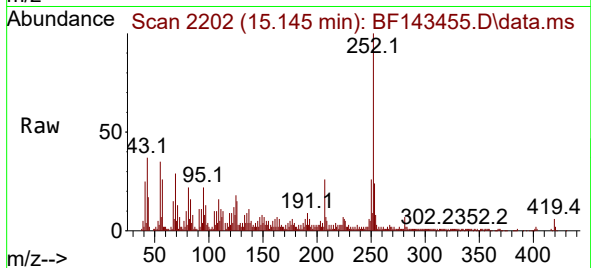
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.3  | 17.1  | 25.7  |
| 125 | 17.9  | 7.5   | 11.3  |

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#89

Benzo(k)fluoranthene

Concen: 2.250 ng m

RT: 15.163 min Scan# 2205

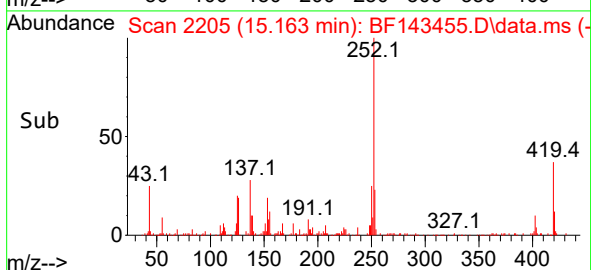
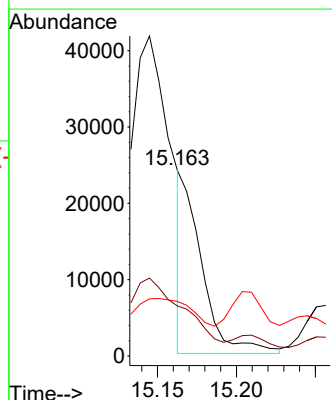
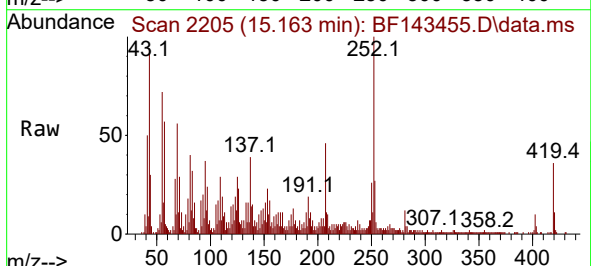
Delta R.T. -0.006 min

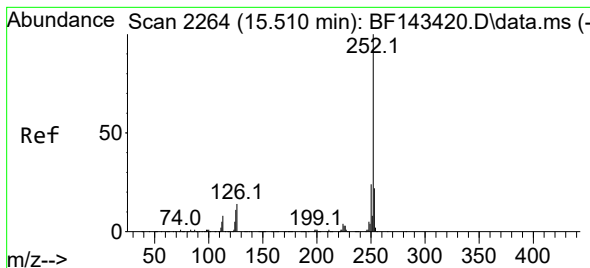
Lab File: BF143455.D

Acq: 19 Aug 2025 14:28

Tgt Ion:252 Resp: 20741

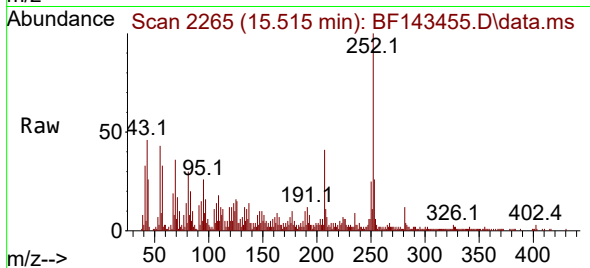
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 27.0  | 17.2  | 25.8# |
| 125 | 29.4  | 7.4   | 11.2# |





#90  
Benzo(a)pyrene  
Concen: 4.597 ng  
RT: 15.515 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

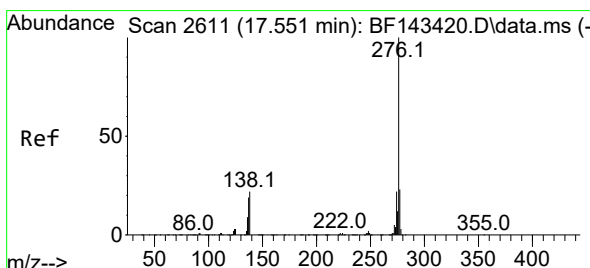
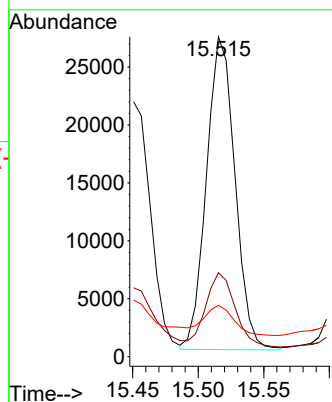
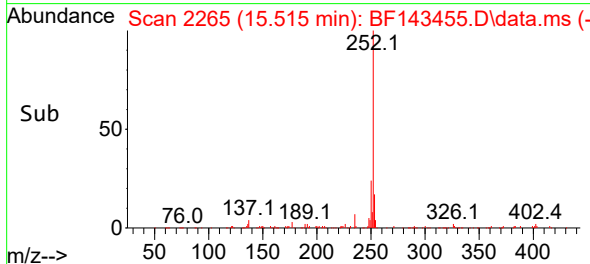
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP07-081425



Tgt Ion:252 Resp: 4091  
Ion Ratio Lower Upper  
252 100  
253 26.3 17.4 26.2  
125 16.1 8.6 12.8

Manual Integrations  
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Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#92  
Benzo(g,h,i)perylene  
Concen: 2.846 ng  
RT: 17.562 min Scan# 2613  
Delta R.T. 0.012 min  
Lab File: BF143455.D  
Acq: 19 Aug 2025 14:28

Tgt Ion:276 Resp: 29859  
Ion Ratio Lower Upper  
276 100  
277 27.8 18.7 28.1  
138 26.4 17.5 26.3

