

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020525\  
 Data File : BF141460.D  
 Acq On : 05 Feb 2025 21:05  
 Operator : RC/JU  
 Sample : Q1207-19  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-20.2-012725

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025  
 Supervised By :mohammad ahmed 02/06/2025

Quant Time: Feb 06 01:48:24 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 29 17:41:25 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.787  | 152  | 72530    | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.069  | 136  | 288100   | 20.000 | ng    | #-0.02   |
| 39) Acenaphthene-d10        | 9.828  | 164  | 141483   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.310 | 188  | 194970   | 20.000 | ng    | -0.02    |
| 76) Chrysene-d12            | 13.957 | 240  | 168850   | 20.000 | ng    | -0.02    |
| 86) Perylene-d12            | 15.421 | 264  | 153896   | 20.000 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.404  | 112  | 201167   | 42.580 | ng    | 0.00     |
| 7) Phenol-d6                | 6.422  | 99   | 243674   | 40.544 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.345  | 82   | 159822   | 29.244 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.616 | 330  | 46229    | 35.641 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.145  | 172  | 268346   | 29.193 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.898 | 244  | 197854   | 18.071 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.333 | 178  | 151900   | 14.494 | ng    | 99       |
| 72) Anthracene              | 11.386 | 178  | 33140    | 3.227  | ng    | 99       |
| 75) Fluoranthene            | 12.527 | 202  | 209398   | 20.235 | ng    | 98       |
| 78) Pyrene                  | 12.757 | 202  | 212134   | 13.088 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.945 | 228  | 105876   | 9.087  | ng    | 98       |
| 83) Chrysene                | 13.980 | 228  | 90973    | 8.519  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.862 | 276  | 32703    | 3.292  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.004 | 252  | 99906m   | 10.320 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.015 | 252  | 46109m   | 5.377  | ng    |          |
| 90) Benzo(a)pyrene          | 15.362 | 252  | 79098    | 9.669  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 17.292 | 276  | 33591    | 4.043  | ng    | 96       |
| -----                       |        |      |          |        |       |          |

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

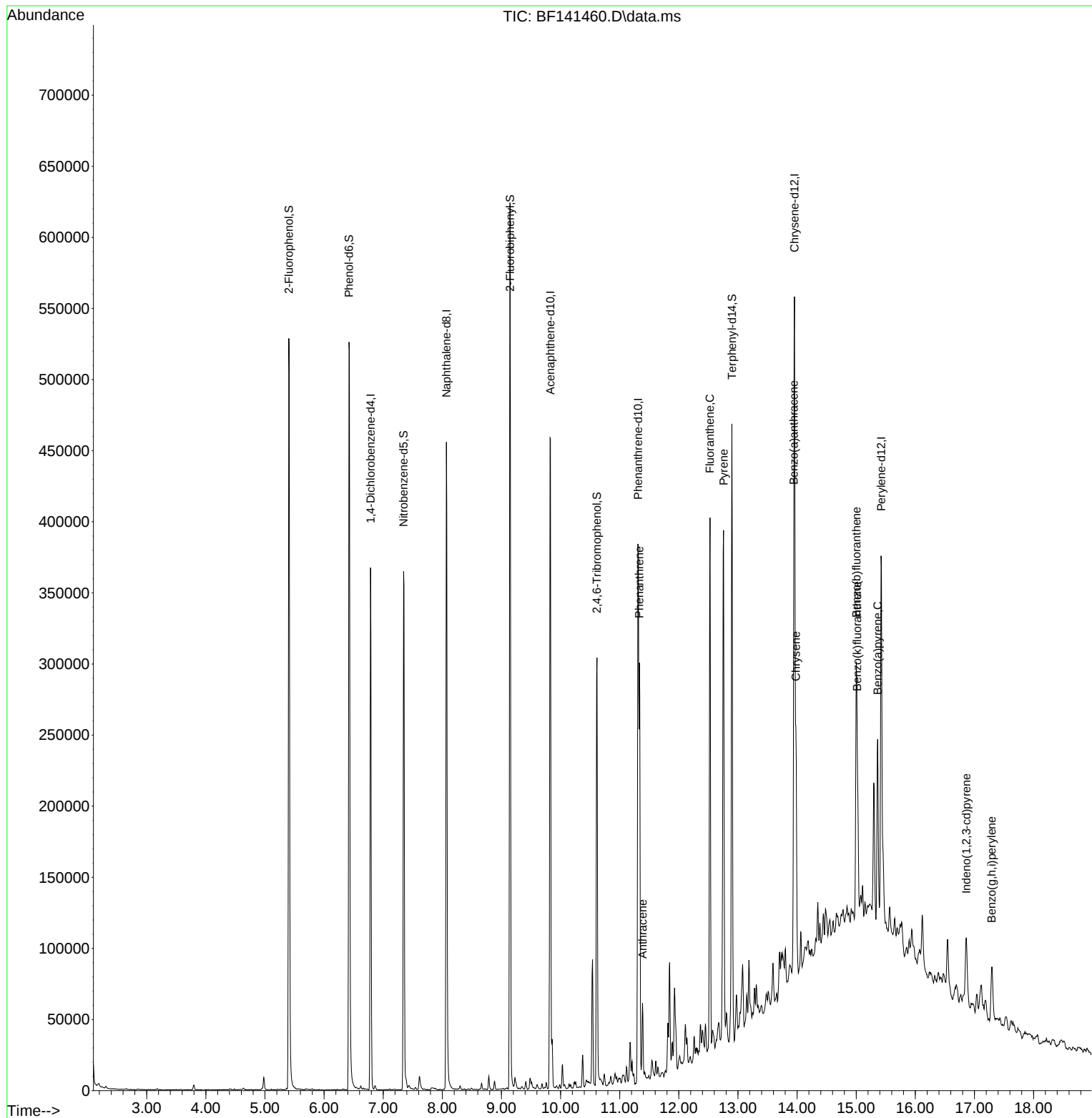
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020525\  
Data File : BF141460.D  
Acq On : 05 Feb 2025 21:05  
Operator : RC/JU  
Sample : Q1207-19  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

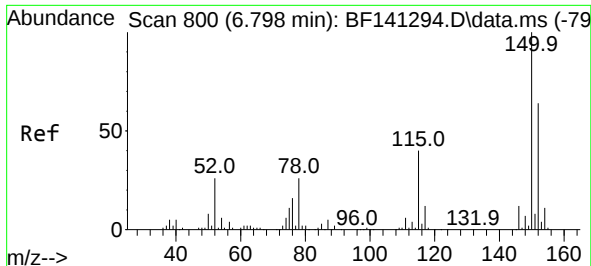
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-20.2-012725

Quant Time: Feb 06 01:48:24 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 29 17:41:25 2025  
Response via : Initial Calibration

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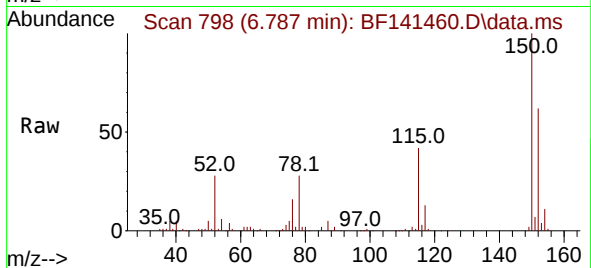
Reviewed By :Yogesh Patel 02/06/2025  
Supervised By :mohammad ahmed 02/06/2025





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.787 min Scan# 798  
 Delta R.T. -0.017 min  
 Lab File: BF141460.D  
 Acq: 05 Feb 2025 21:05

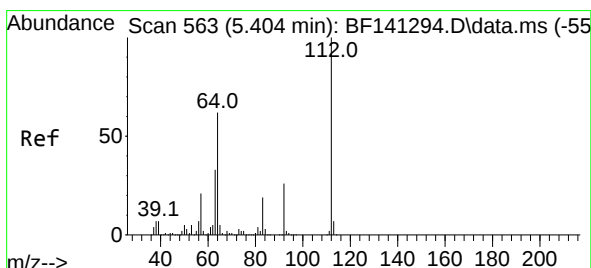
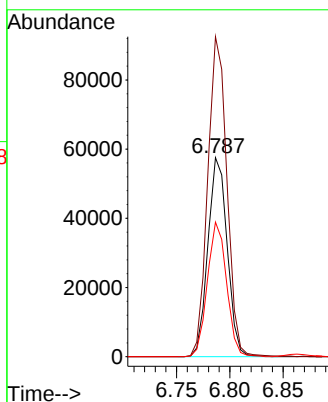
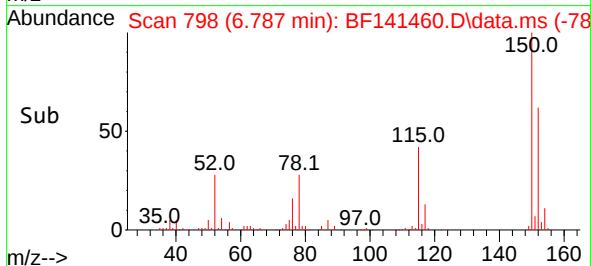
Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-20.2-012725



Tgt Ion:152 Resp: 72530  
 Ion Ratio Lower Upper  
 152 100  
 150 160.8 125.9 188.9  
 115 67.6 49.7 74.5

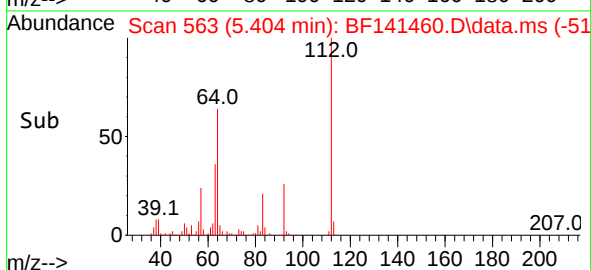
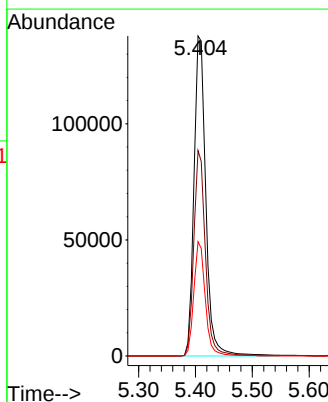
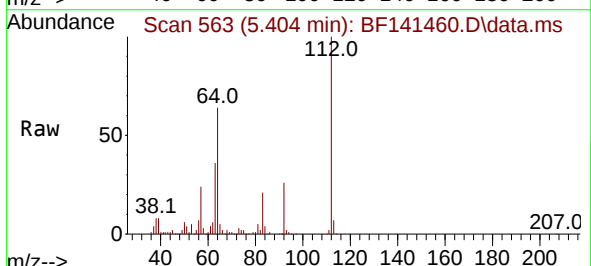
Manual Integrations  
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Reviewed By :Yogesh Patel 02/06/2025  
 Supervised By :mohammad ahmed 02/06/2025



#5  
 2-Fluorophenol  
 Concen: 42.580 ng  
 RT: 5.404 min Scan# 563  
 Delta R.T. -0.006 min  
 Lab File: BF141460.D  
 Acq: 05 Feb 2025 21:05

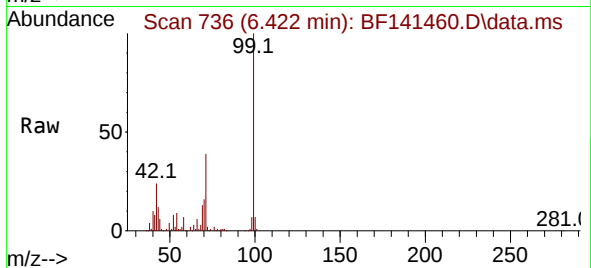
Tgt Ion:112 Resp: 201167  
 Ion Ratio Lower Upper  
 112 100  
 64 64.2 49.8 74.8  
 63 35.7 26.1 39.1





#7  
Phenol-d6  
Concen: 40.544 ng  
RT: 6.422 min Scan# 71  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

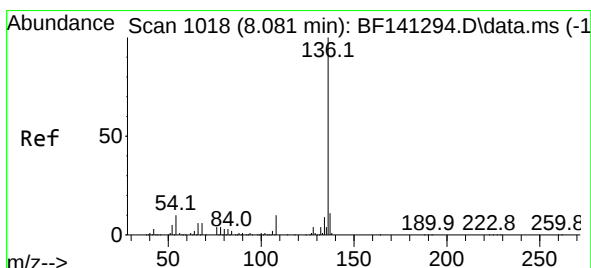
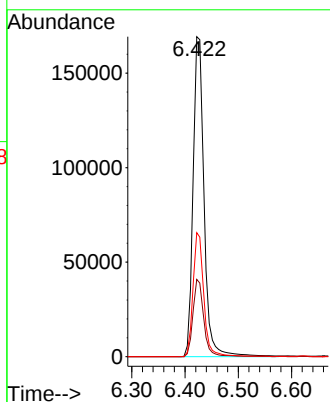
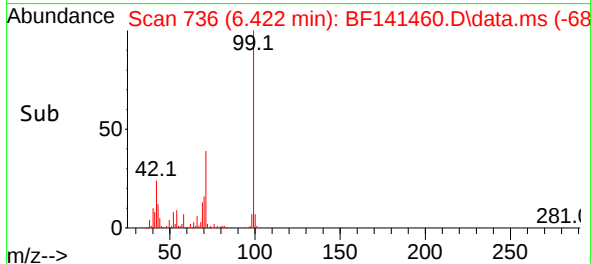
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-20.2-012725



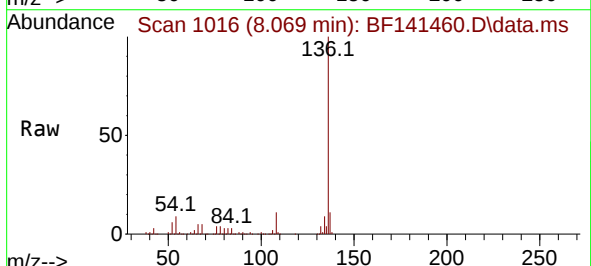
Tgt Ion: 99 Resp: 243674  
Ion Ratio Lower Upper  
99 100  
42 24.1 17.1 25.7  
71 38.7 26.9 40.3

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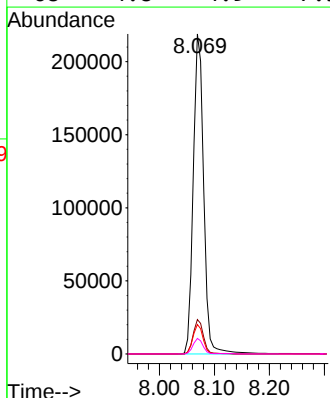
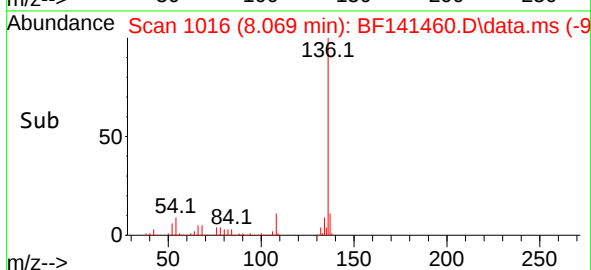
Reviewed By :Yogesh Patel 02/06/2025  
Supervised By :mohammad ahmed 02/06/2025

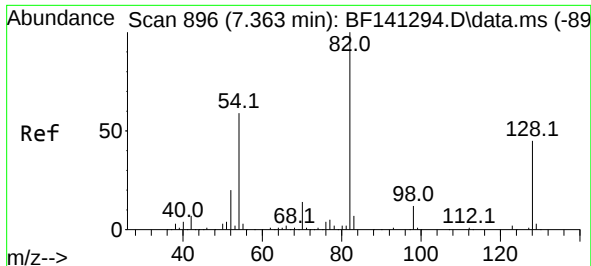


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.069 min Scan# 1016  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05



Tgt Ion:136 Resp: 288100  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.6 13.0  
54 9.2 7.8 11.8  
68 4.8 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 29.244 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.024 min

Lab File: BF141460.D

Acq: 05 Feb 2025 21:05

Instrument :

BNA\_F

ClientSampleId :

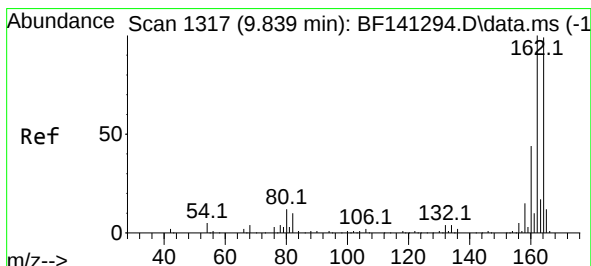
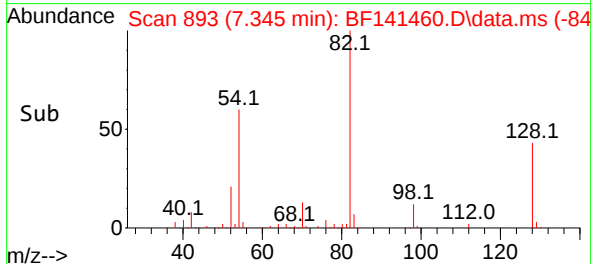
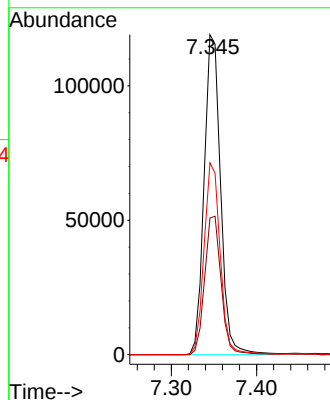
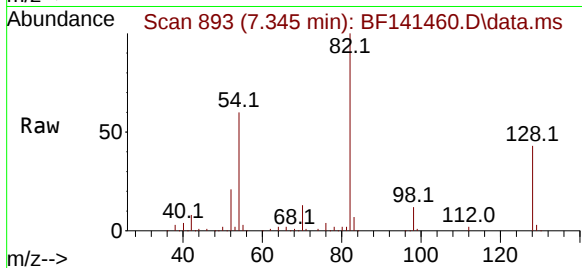
JPP-20.2-012725

Tgt Ion: 82 Resp: 15982  
 Ion Ratio Lower Upper  
 82 100  
 128 42.7 35.7 53.5  
 54 60.0 47.1 70.7

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025  
 Supervised By :mohammad ahmed 02/06/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

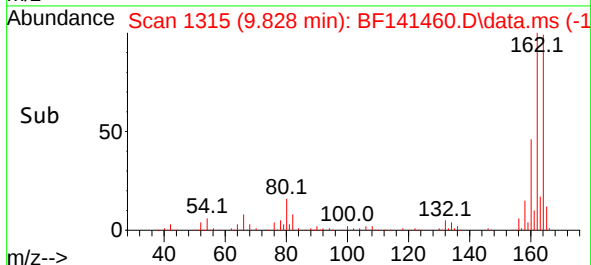
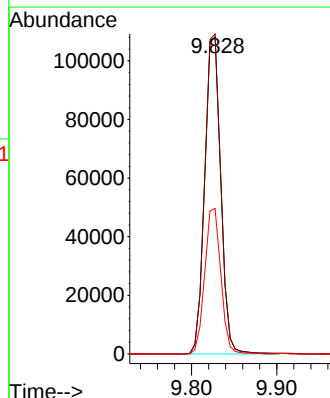
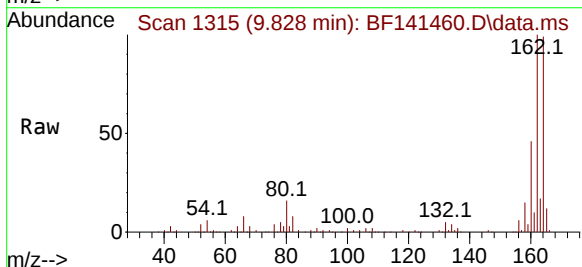
RT: 9.828 min Scan# 1315

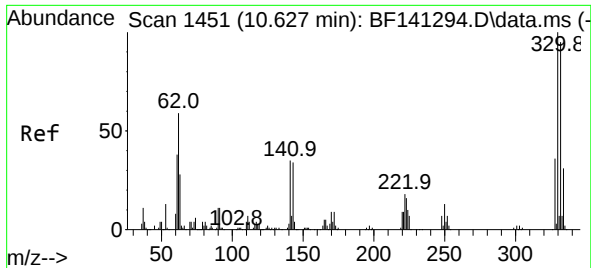
Delta R.T. -0.012 min

Lab File: BF141460.D

Acq: 05 Feb 2025 21:05

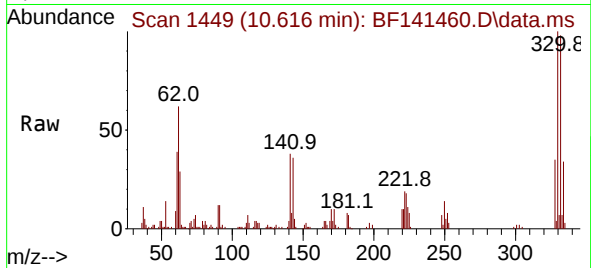
Tgt Ion:164 Resp: 141483  
 Ion Ratio Lower Upper  
 164 100  
 162 100.9 80.6 121.0  
 160 45.9 35.8 53.6





#42  
2,4,6-Tribromophenol  
Concen: 35.641 ng  
RT: 10.616 min Scan# 1449  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

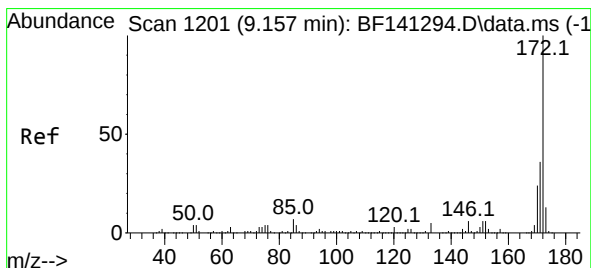
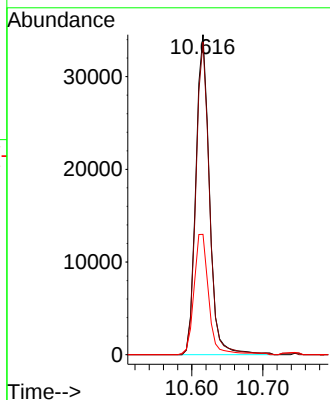
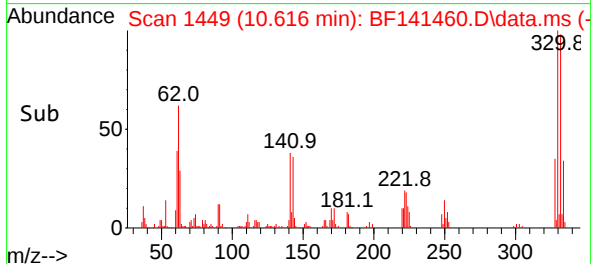
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-20.2-012725



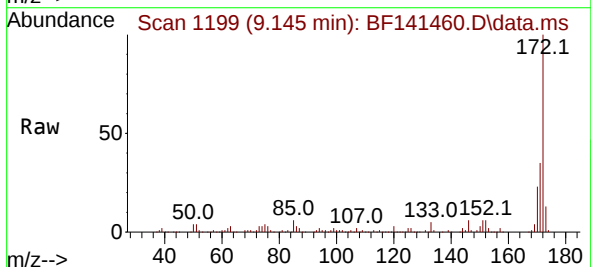
Tgt Ion: 330 Resp: 46229  
Ion Ratio Lower Upper  
330 100  
332 97.1 76.1 114.1  
141 40.1 28.8 43.2

Manual Integrations  
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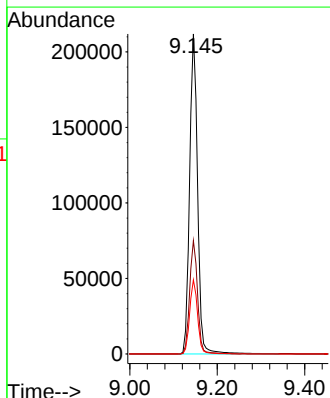
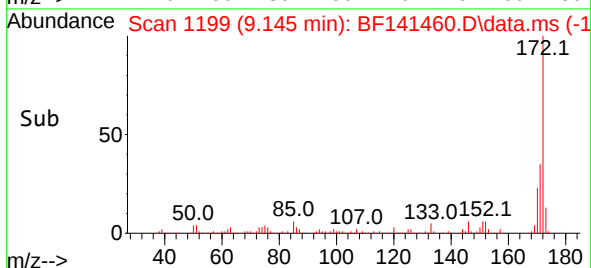
Reviewed By : Yogesh Patel 02/06/2025  
Supervised By : mohammad ahmed 02/06/2025

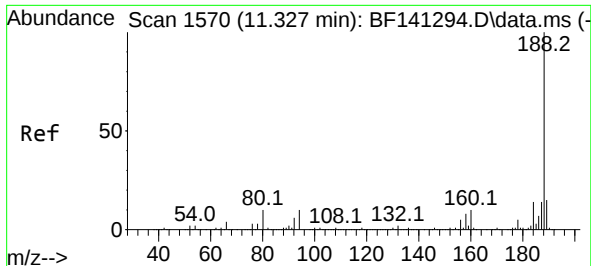


#45  
2-Fluorobiphenyl  
Concen: 29.193 ng  
RT: 9.145 min Scan# 1199  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05



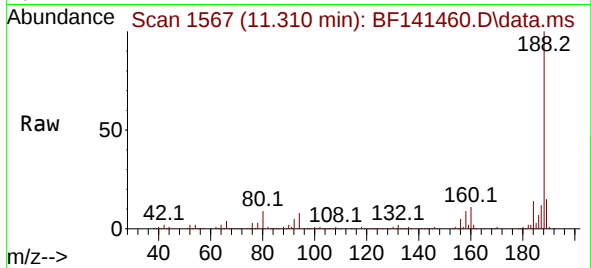
Tgt Ion: 172 Resp: 268346  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.8 43.2  
170 23.2 19.0 28.6





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 1567  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

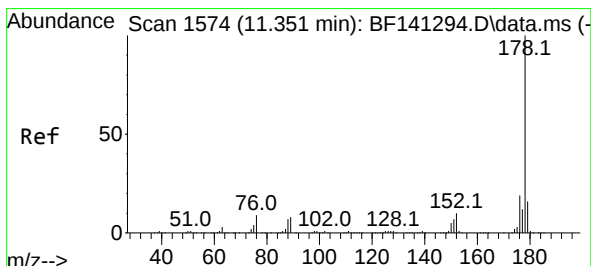
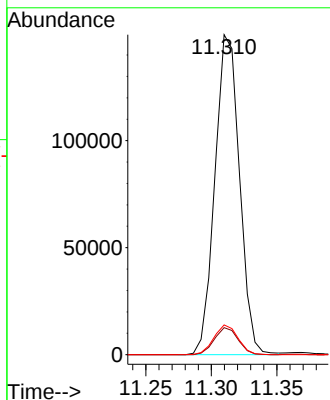
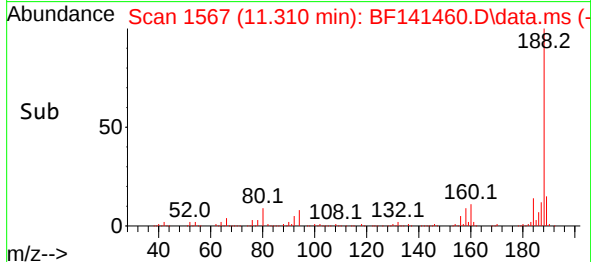
Instrument :  
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JPP-20.2-012725



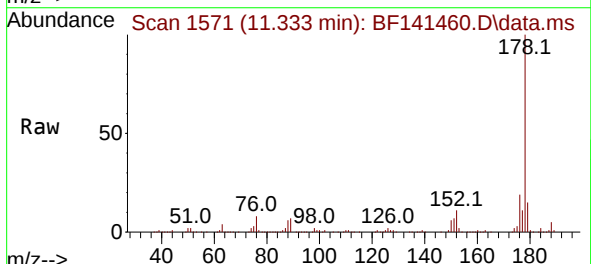
Tgt Ion:188 Resp: 194970  
Ion Ratio Lower Upper  
188 100  
94 8.5 7.8 11.6  
80 9.3 8.2 12.4

Manual Integrations  
APPROVED

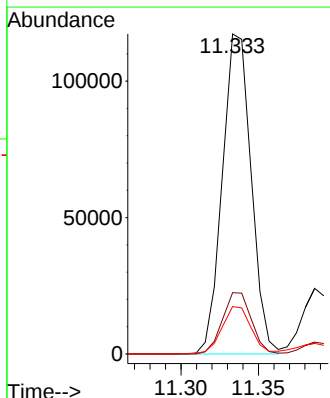
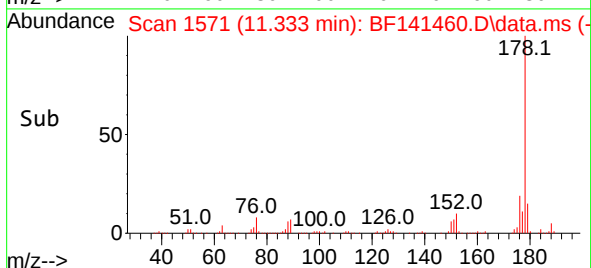
Reviewed By :Yogesh Patel 02/06/2025  
Supervised By :mohammad ahmed 02/06/2025

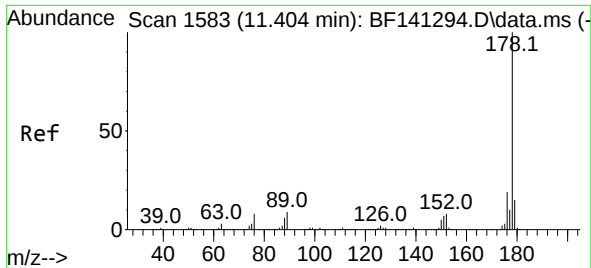


#71  
Phenanthrene  
Concen: 14.494 ng  
RT: 11.333 min Scan# 1571  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05



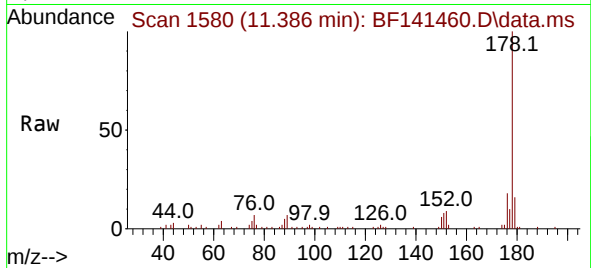
Tgt Ion:178 Resp: 151900  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.3 22.9  
179 14.8 12.5 18.7





#72  
 Anthracene  
 Concen: 3.227 ng  
 RT: 11.386 min Scan# 11386  
 Delta R.T. -0.018 min  
 Lab File: BF141460.D  
 Acq: 05 Feb 2025 21:05

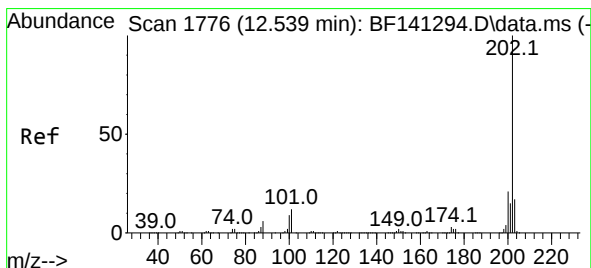
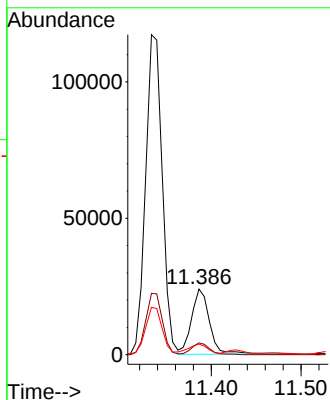
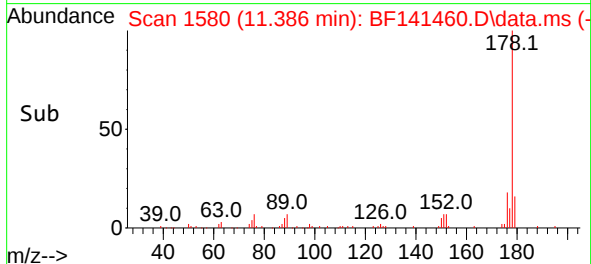
Instrument :  
 BNA\_F  
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 JPP-20.2-012725



Tgt Ion:178 Resp: 33140  
 Ion Ratio Lower Upper  
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 179 16.0 12.3 18.5

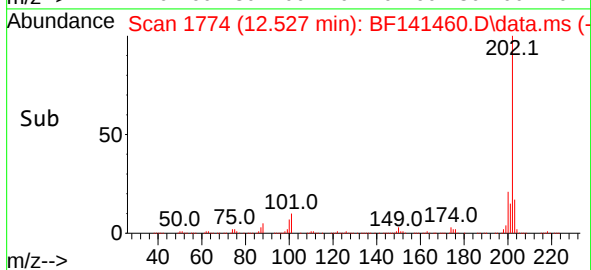
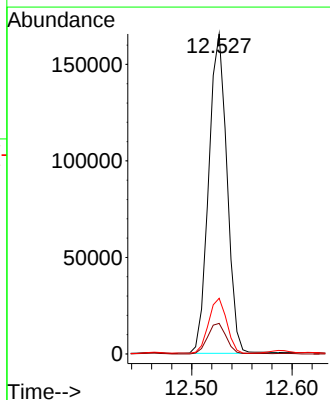
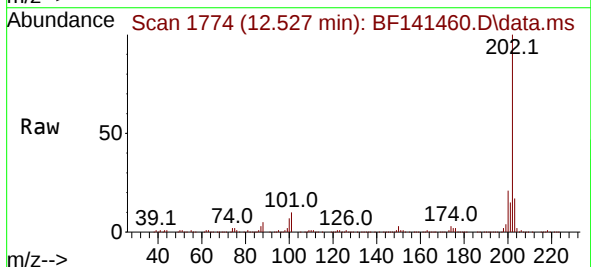
Manual Integrations  
 APPROVED

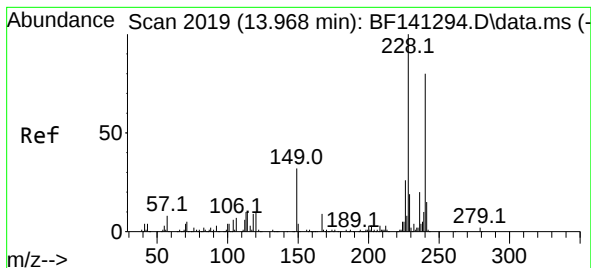
Reviewed By :Yogesh Patel 02/06/2025  
 Supervised By :mohammad ahmed 02/06/2025



#75  
 Fluoranthene  
 Concen: 20.235 ng  
 RT: 12.527 min Scan# 1774  
 Delta R.T. -0.012 min  
 Lab File: BF141460.D  
 Acq: 05 Feb 2025 21:05

Tgt Ion:202 Resp: 209398  
 Ion Ratio Lower Upper  
 202 100  
 101 9.6 0.0 31.7  
 203 17.4 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2019

Delta R.T. -0.018 min

Lab File: BF141460.D

Acq: 05 Feb 2025 21:05

Instrument :

BNA\_F

ClientSampleId :

JPP-20.2-012725

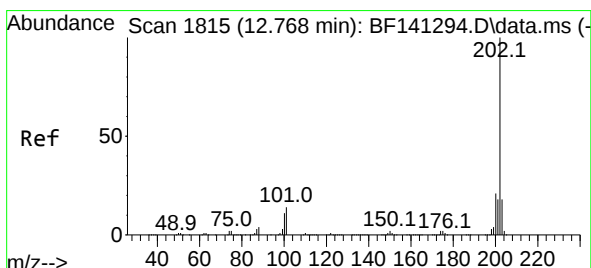
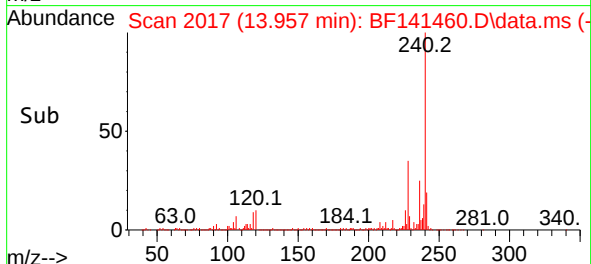
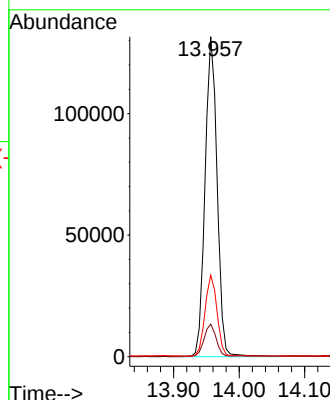
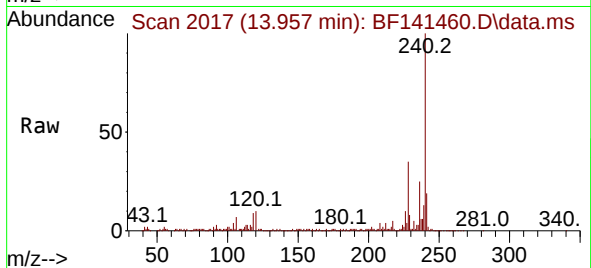
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 Ion Ratio Lower Upper  
 240 100  
 120 10.1 10.0 15.0  
 236 25.5 19.7 29.5

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#78

Pyrene

Concen: 13.088 ng

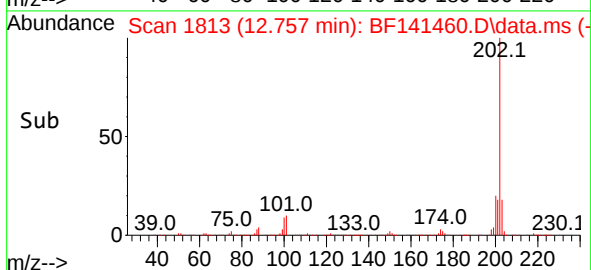
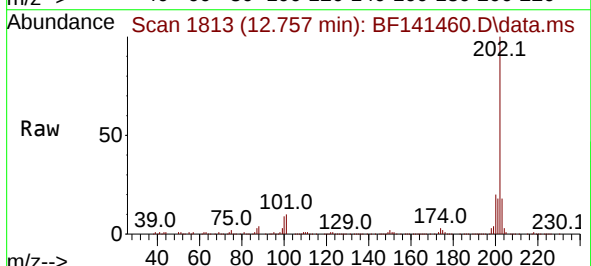
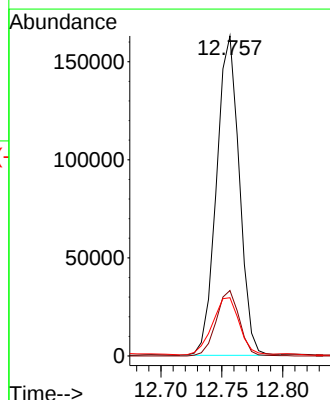
RT: 12.757 min Scan# 1813

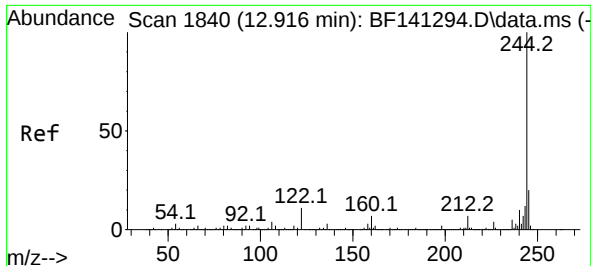
Delta R.T. -0.012 min

Lab File: BF141460.D

Acq: 05 Feb 2025 21:05

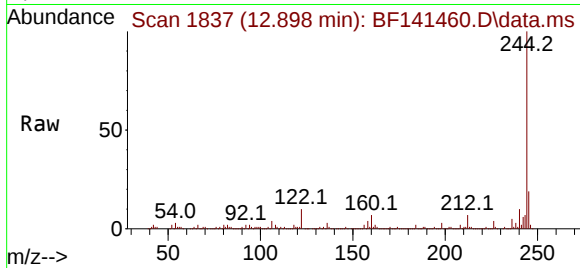
Tgt Ion:202 Resp: 212134  
 Ion Ratio Lower Upper  
 202 100  
 200 20.5 17.0 25.4  
 203 18.2 14.3 21.5





#79  
 Terphenyl-d14  
 Concen: 18.071 ng  
 RT: 12.898 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: BF141460.D  
 Acq: 05 Feb 2025 21:05

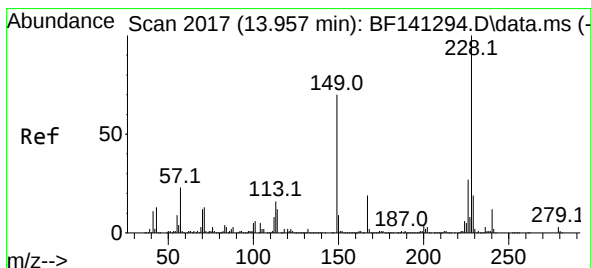
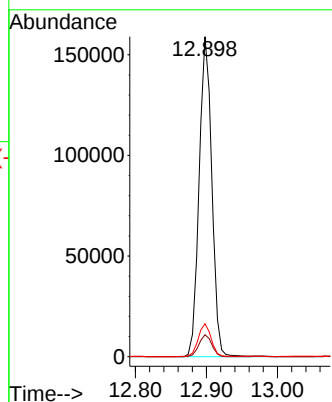
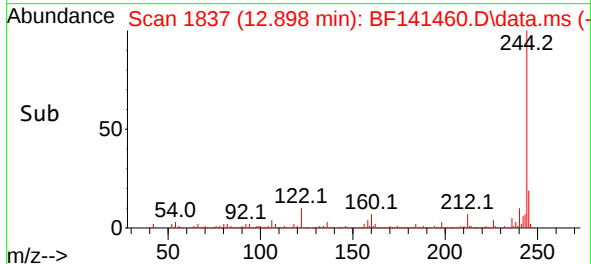
Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-20.2-012725



Tgt Ion:244 Resp: 197854  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.4 8.0  
 122 10.3 8.8 13.2

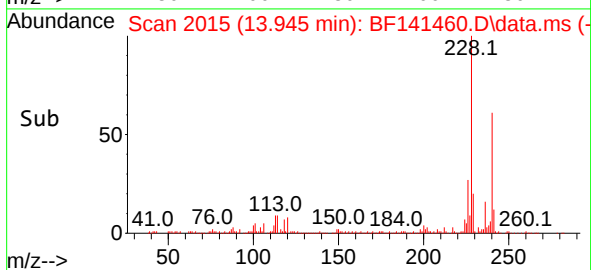
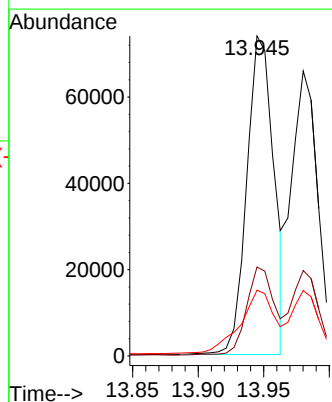
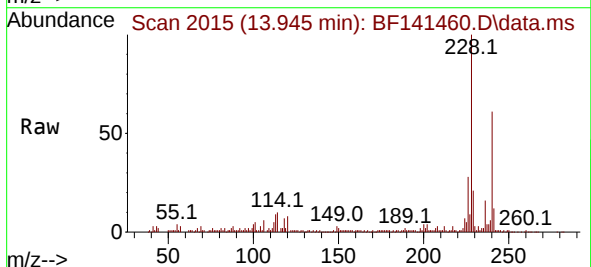
Manual Integrations  
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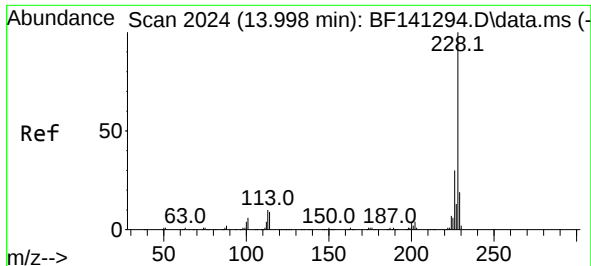
Reviewed By :Yogesh Patel 02/06/2025  
 Supervised By :mohammad ahmed 02/06/2025



#81  
 Benzo(a)anthracene  
 Concen: 9.087 ng  
 RT: 13.945 min Scan# 2015  
 Delta R.T. -0.018 min  
 Lab File: BF141460.D  
 Acq: 05 Feb 2025 21:05

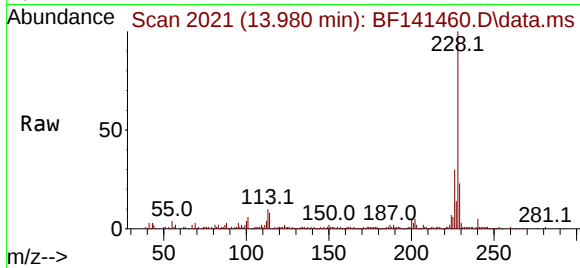
Tgt Ion:228 Resp: 105876  
 Ion Ratio Lower Upper  
 228 100  
 226 27.8 21.4 32.2  
 229 20.6 15.5 23.3





#83  
Chrysene  
Concen: 8.519 ng  
RT: 13.980 min Scan# 2024  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

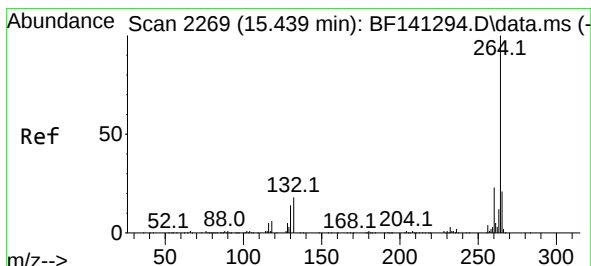
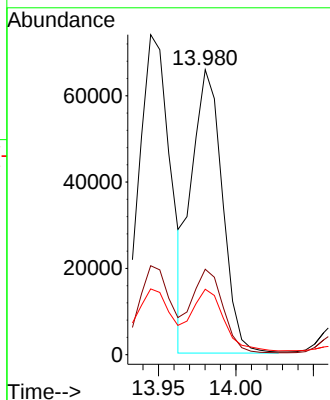
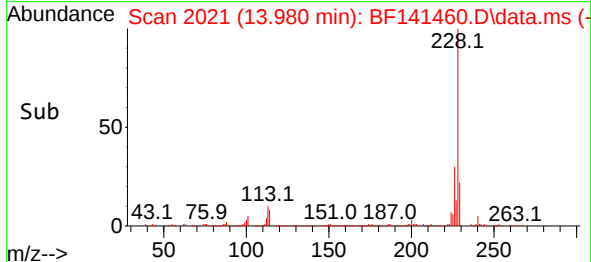
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-20.2-012725



Tgt Ion:228 Resp: 9097  
Ion Ratio Lower Upper  
228 100  
226 30.0 24.1 36.1  
229 23.0 15.6 23.4

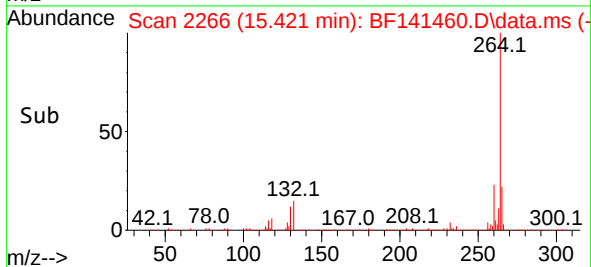
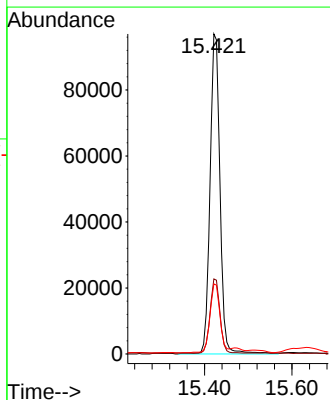
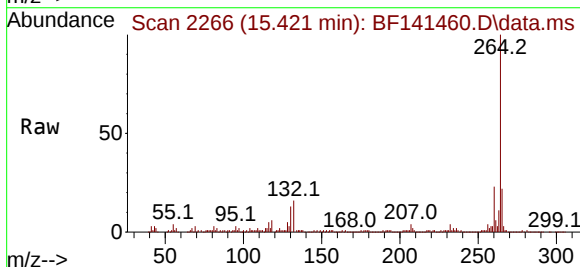
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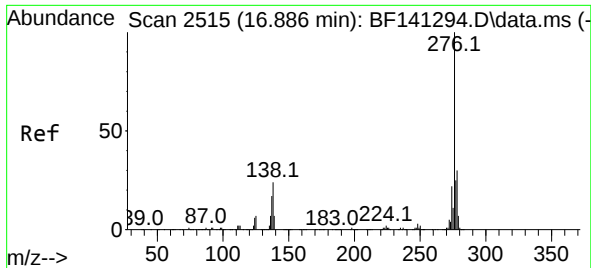
Reviewed By :Yogesh Patel 02/06/2025  
Supervised By :mohammad ahmed 02/06/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.421 min Scan# 2266  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

Tgt Ion:264 Resp: 153896  
Ion Ratio Lower Upper  
264 100  
260 23.5 18.6 27.8  
265 21.9 16.7 25.1





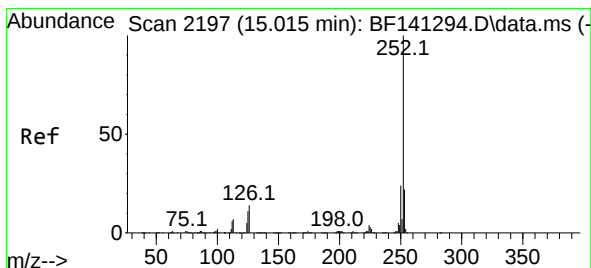
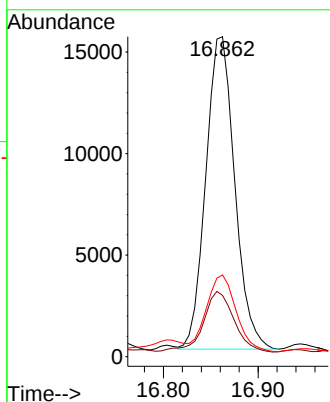
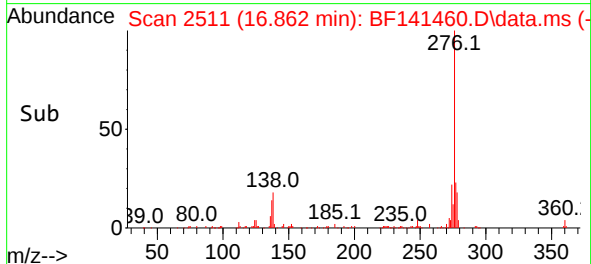
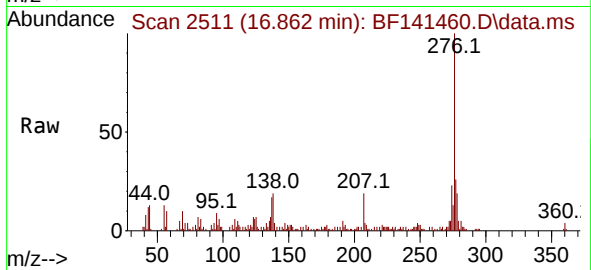
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.292 ng  
RT: 16.862 min Scan# 2195  
Delta R.T. -0.035 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-20.2-012725

Tgt Ion:276 Resp: 3270  
Ion Ratio Lower Upper  
276 100  
138 22.0 21.7 32.5  
277 25.6 20.3 30.5

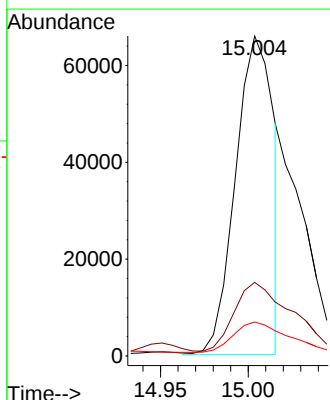
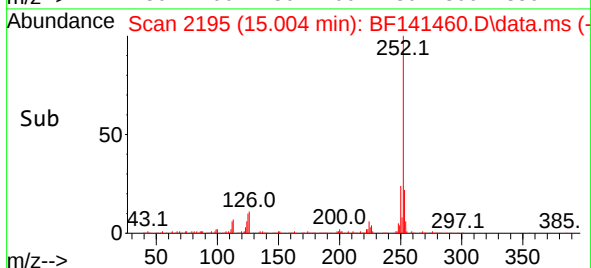
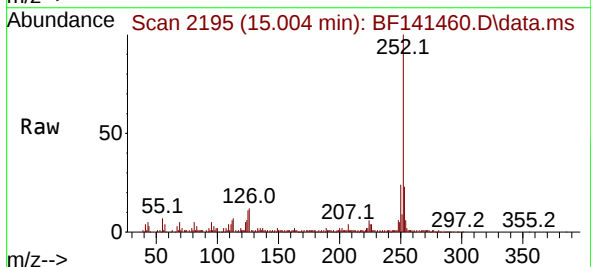
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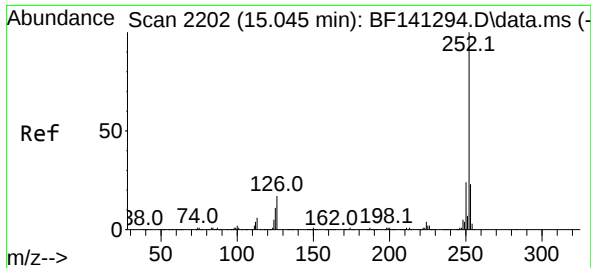
Reviewed By :Yogesh Patel 02/06/2025  
Supervised By :mohammad ahmed 02/06/2025



#88  
Benzo(b)fluoranthene  
Concen: 10.320 ng m  
RT: 15.004 min Scan# 2195  
Delta R.T. -0.018 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

Tgt Ion:252 Resp: 99906  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.4 26.2  
125 10.6 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 5.377 ng m

RT: 15.015 min Scan# 2197

Delta R.T. -0.035 min

Lab File: BF141460.D

Acq: 05 Feb 2025 21:05

Instrument :

BNA\_F

ClientSampleId :

JPP-20.2-012725

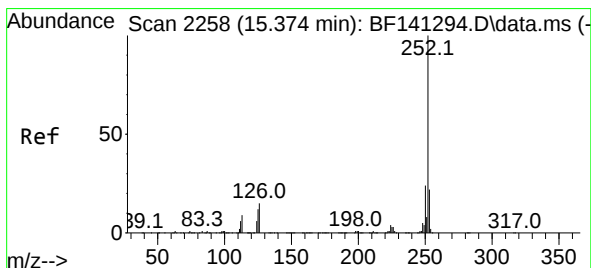
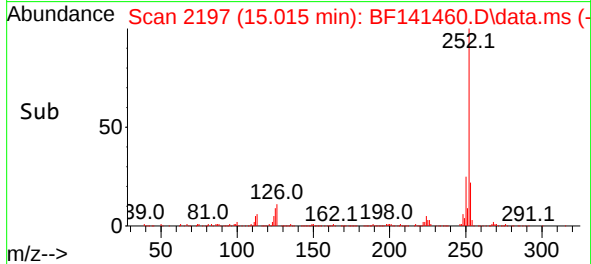
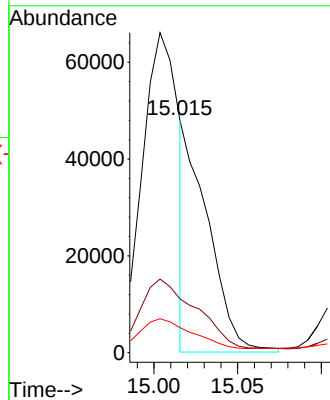
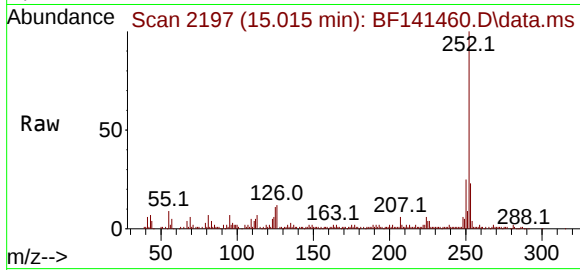
Tgt Ion:252 Resp: 46109  
 Ion Ratio Lower Upper  
 252 100  
 253 23.2 17.6 26.4  
 125 10.8 8.4 12.6

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#90

Benzo(a)pyrene

Concen: 9.669 ng

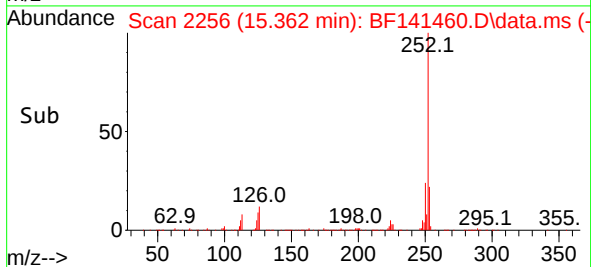
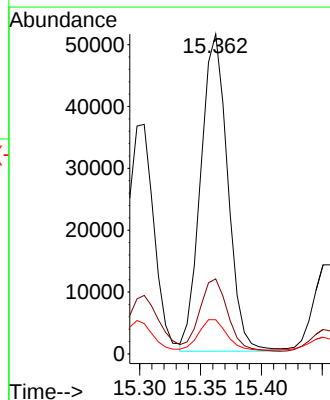
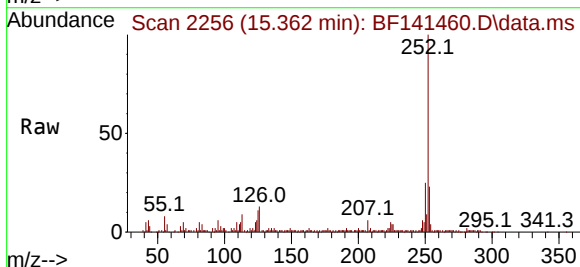
RT: 15.362 min Scan# 2256

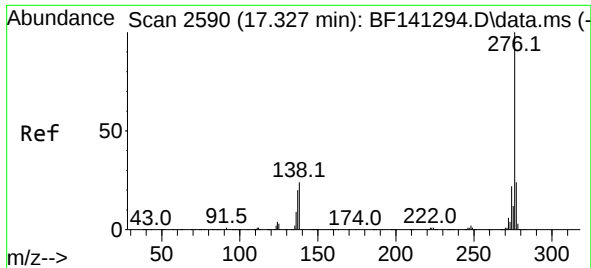
Delta R.T. -0.018 min

Lab File: BF141460.D

Acq: 05 Feb 2025 21:05

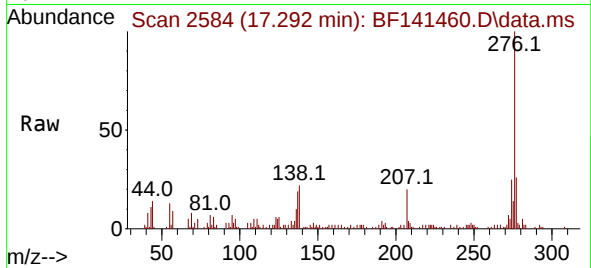
Tgt Ion:252 Resp: 79098  
 Ion Ratio Lower Upper  
 252 100  
 253 23.5 17.2 25.8  
 125 10.7 9.4 14.2





#92  
Benzo(g,h,i)perylene  
Concen: 4.043 ng  
RT: 17.292 min Scan# 21  
Delta R.T. -0.053 min  
Lab File: BF141460.D  
Acq: 05 Feb 2025 21:05

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-20.2-012725



Tgt Ion: 276 Resp: 3359  
Ion Ratio Lower Upper  
276 100  
277 26.1 19.2 28.8  
138 22.3 19.0 28.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 02/06/2025  
Supervised By :mohammad ahmed 02/06/2025

