

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

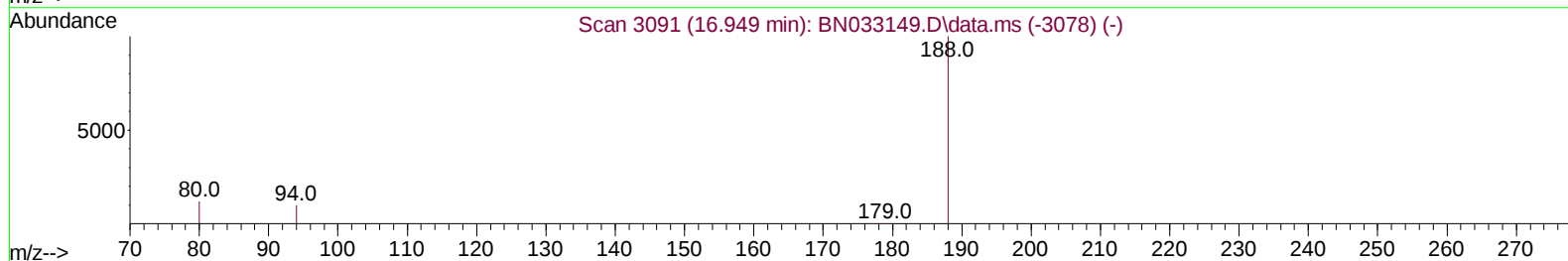
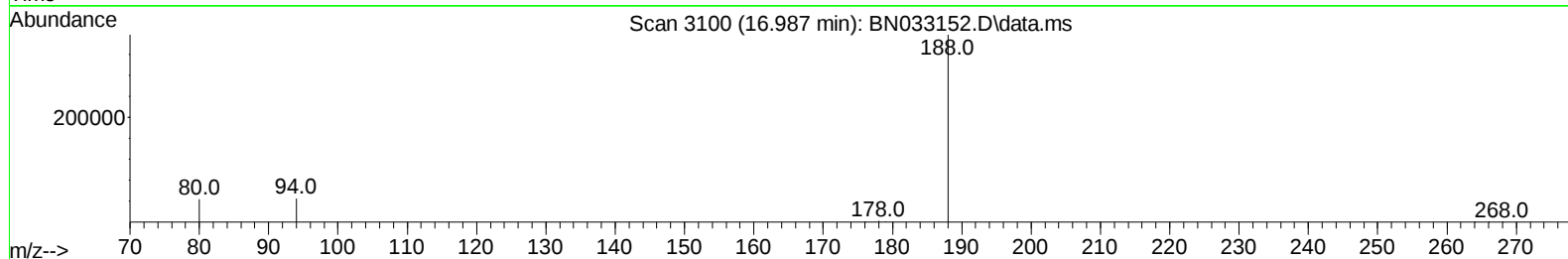
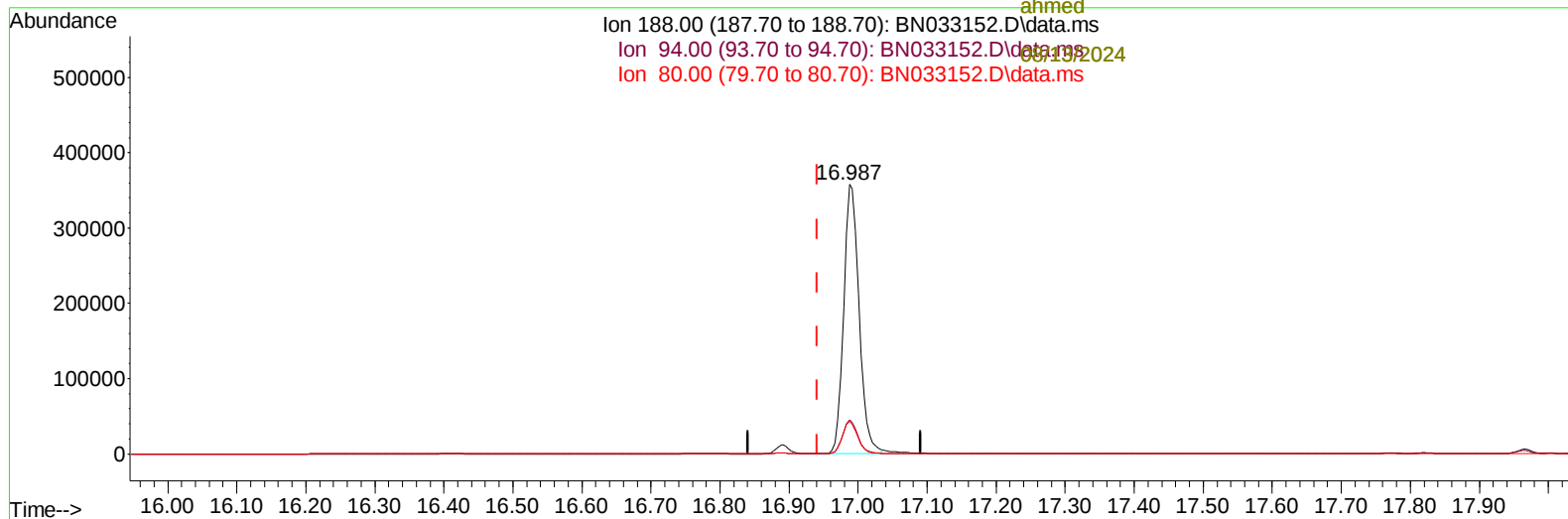
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

Ion 188.00 (187.70 to 188.70): BN033152.D\data.ms  
Ion 94.00 (93.70 to 94.70): BN033152.D\data.ms  
Ion 80.00 (79.70 to 80.70): BN033152.D\data.ms



TIC: BN033152.D\data.ms

**(13) Phenanthrene-d10 (I)****16.987min (+ 0.047) 0.40 ng/u1****response 553386**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 12.40  | 12.69  |
| 80.00  | 13.10  | 12.16  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

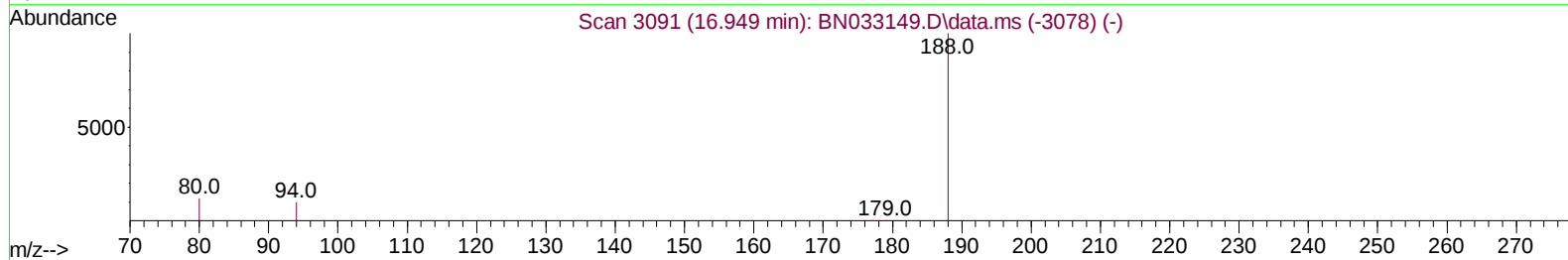
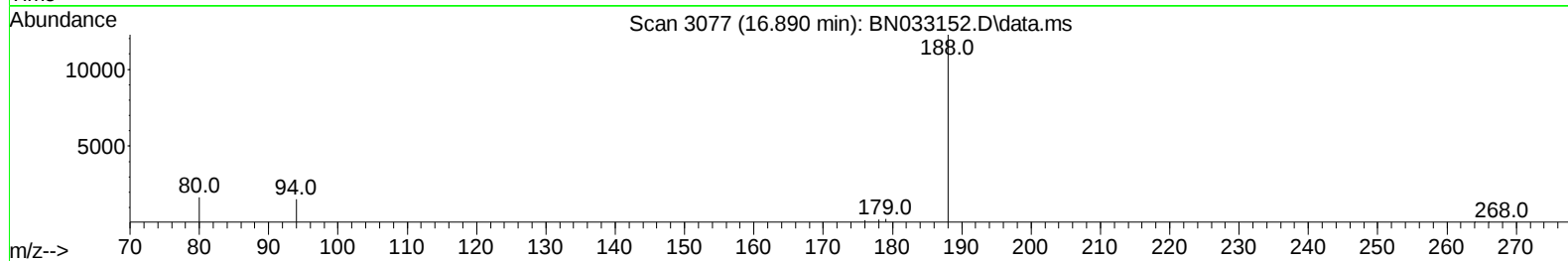
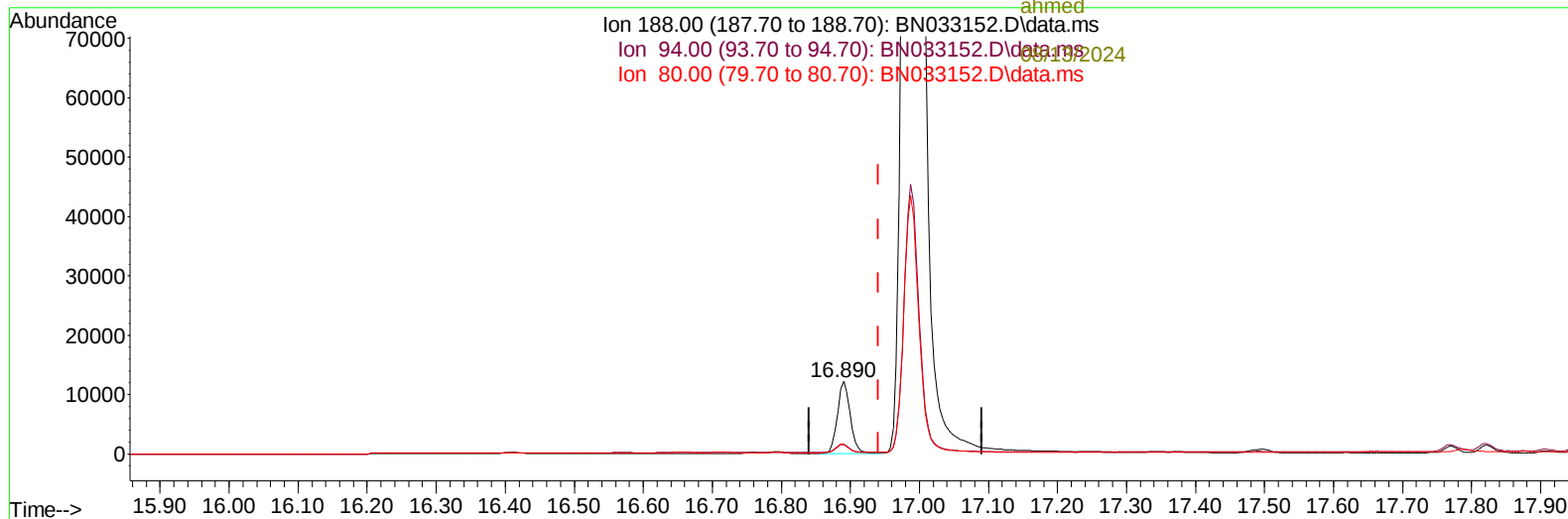
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
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ahmed



TIC: BN033152.D\data.ms

(13) Phenanthrene-d10 (I)

16.890min (-0.050) 0.40 ng/ul m

response 15771

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 12.40  | 12.56  |
| 80.00  | 13.10  | 13.66  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

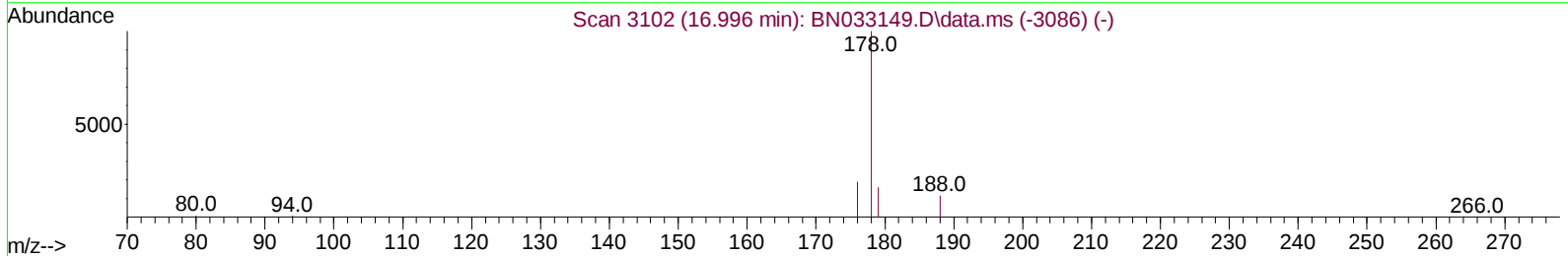
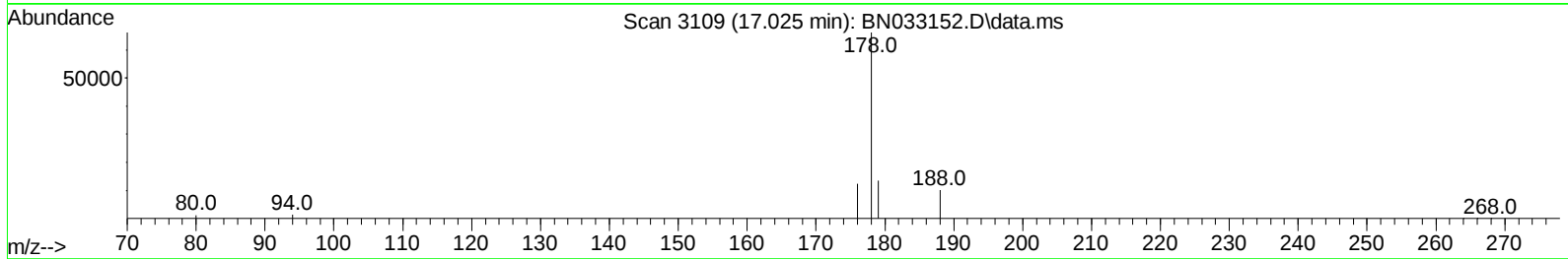
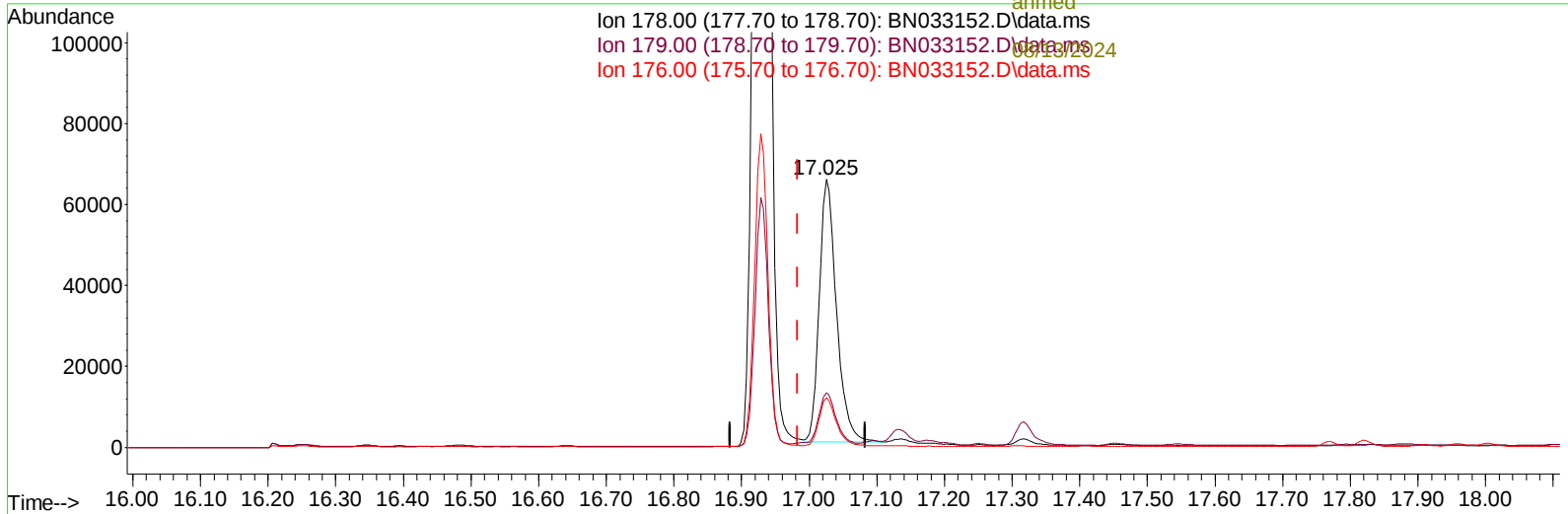
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
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Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
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ahmed



TIC: BN033152.D\data.ms

## (15) Phenanthrene

17.025min (+ 0.042) 2.71 ng/u1

response 114814

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.10  | 20.46  |
| 176.00 | 19.90  | 18.63  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
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Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

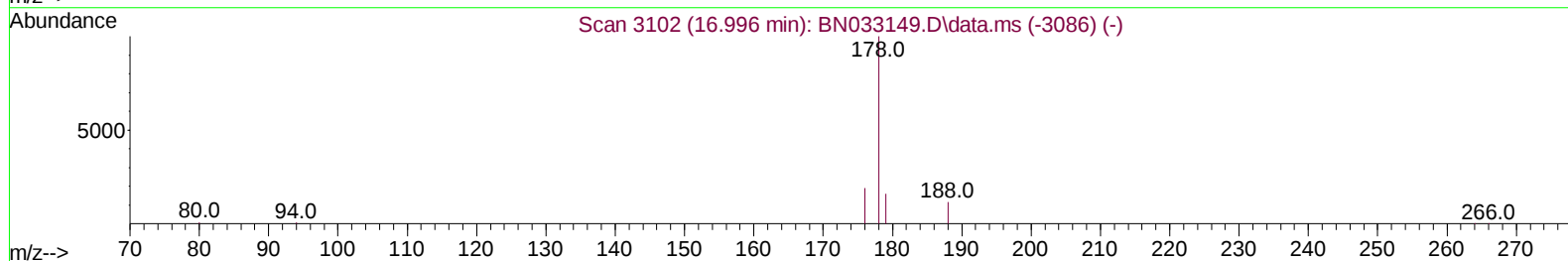
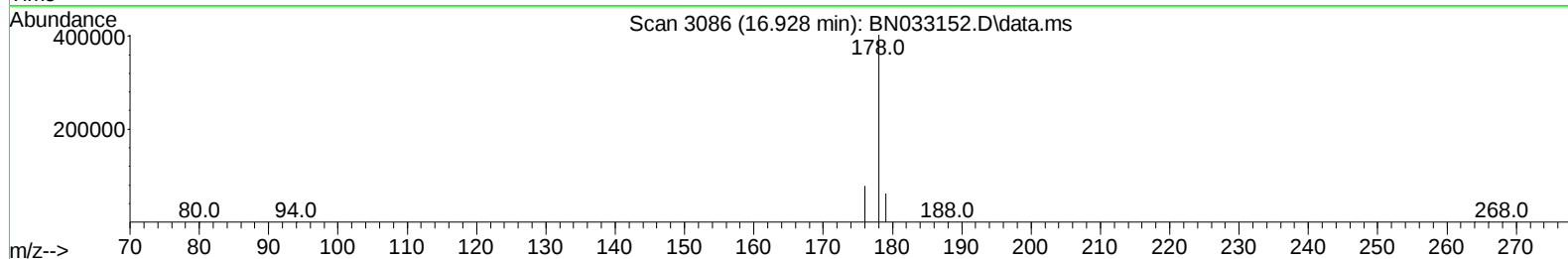
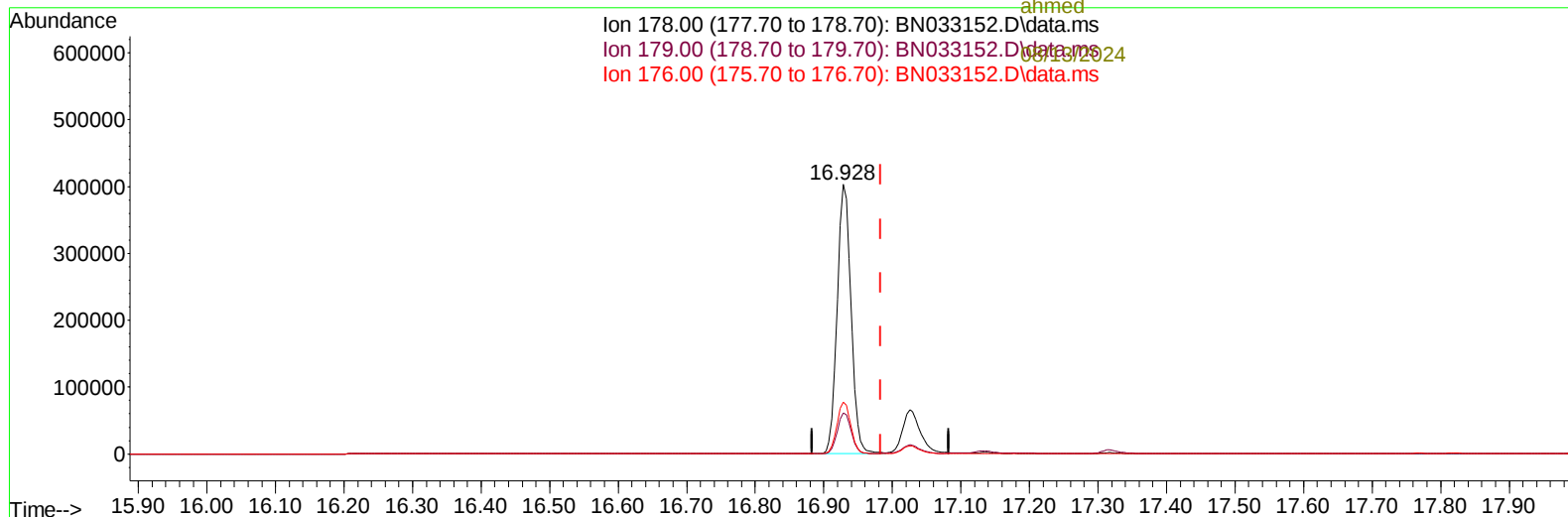
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
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Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

Ion 178.00 (177.70 to 178.70): BN033152.D\data.ms  
Ion 179.00 (178.70 to 179.70): BN033152.D\data.ms  
Ion 176.00 (175.70 to 176.70): BN033152.D\data.ms



TIC: BN033152.D\data.ms

## (15) Phenanthrene

16.928min (-0.055) 13.32 ng/ul m

response 563497

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.10  | 15.33  |
| 176.00 | 19.90  | 19.24  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

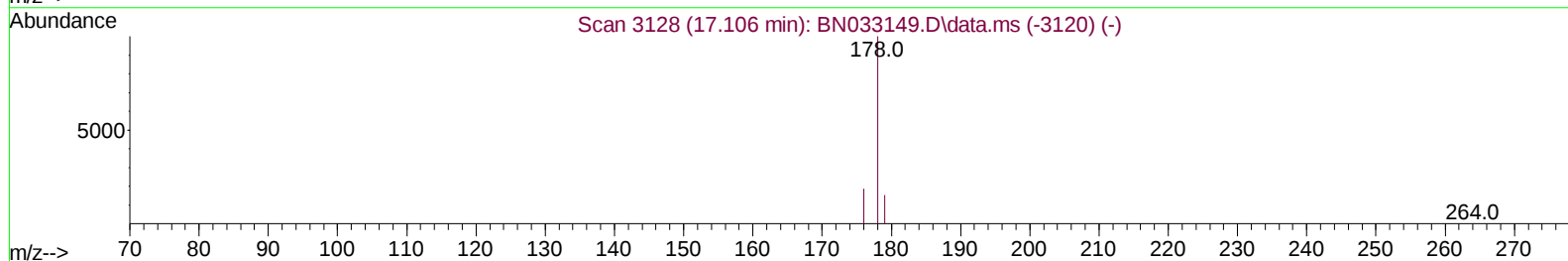
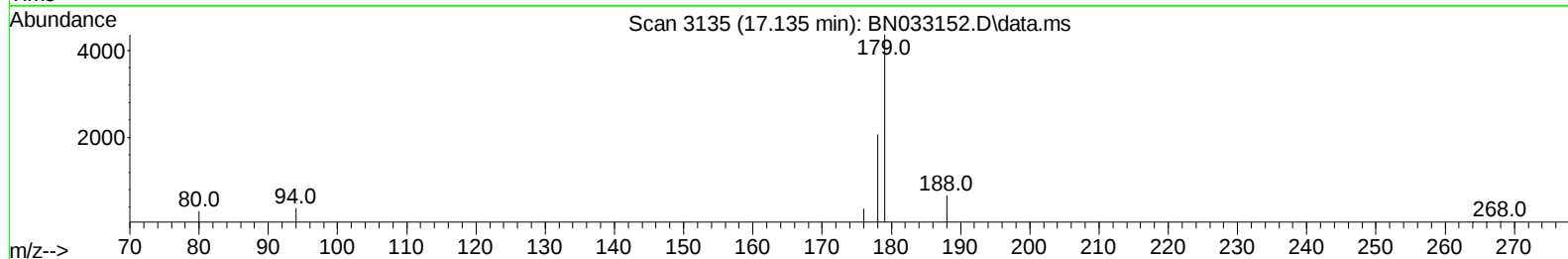
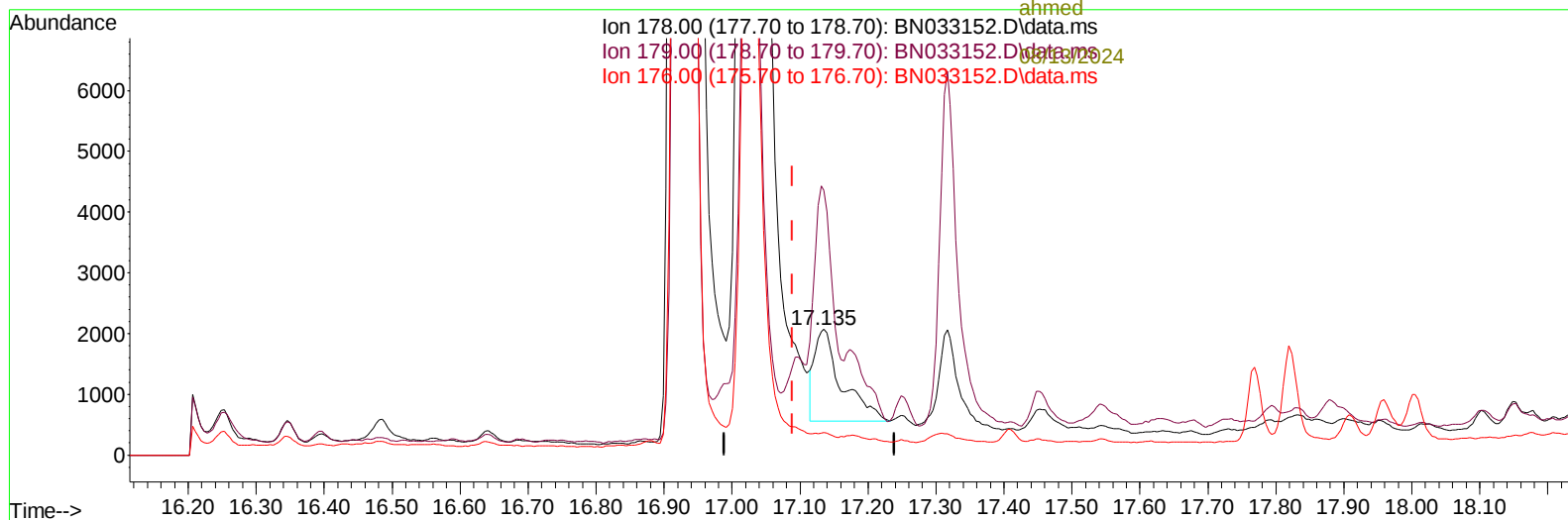
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
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QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (16) Anthracene

17.135min (+ 0.047) 0.11 ng/u1

response 4182

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 178.00 | 100.00 | 100.00  |
| 179.00 | 17.90  | 210.58# |
| 176.00 | 19.80  | 17.83   |
| 0.00   | 0.00   | 0.00    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

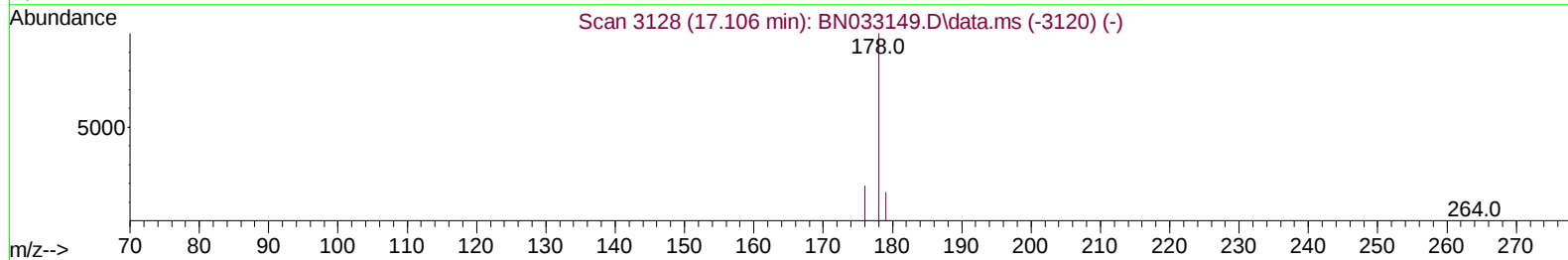
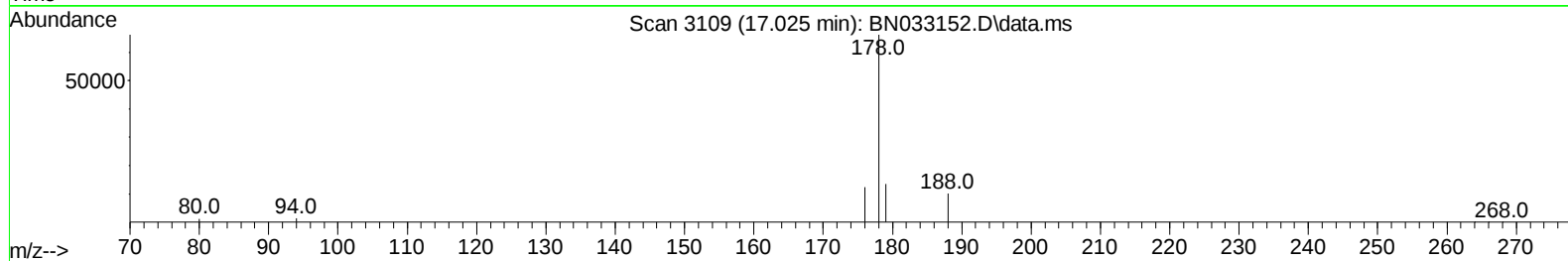
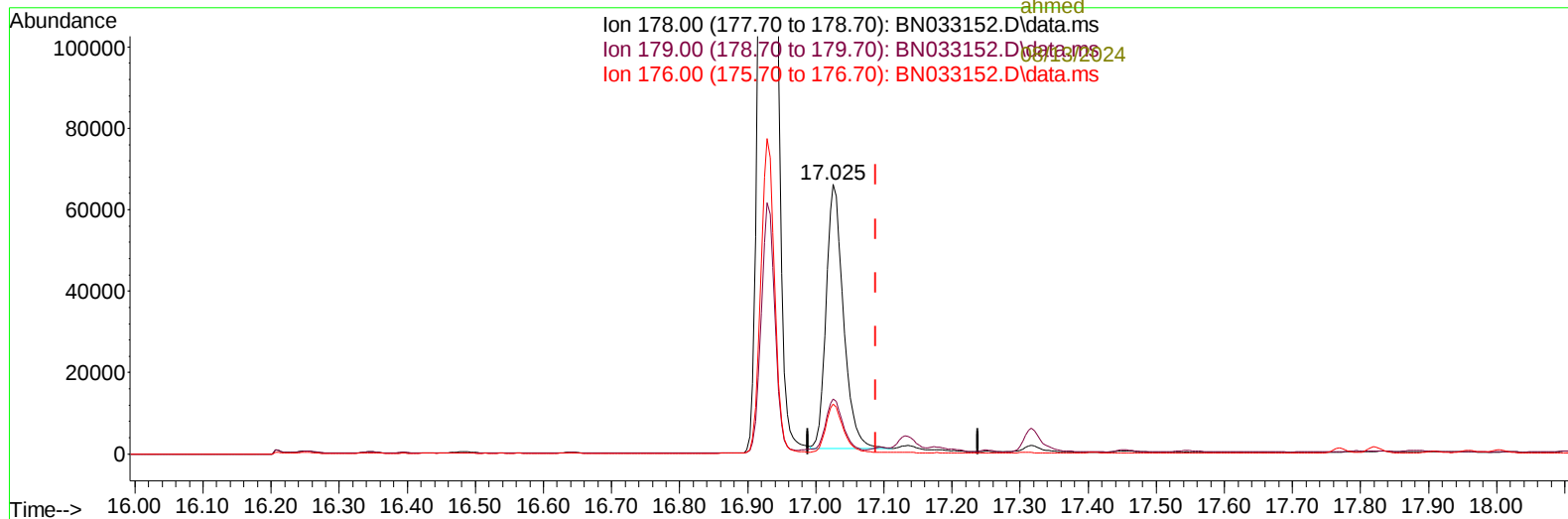
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
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08/01/2024  
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ahmed



TIC: BN033152.D\data.ms

## (16) Anthracene

17.025min (-0.063) 3.02 ng/u1 m

response 114927

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.90  | 20.46  |
| 176.00 | 19.80  | 18.63  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

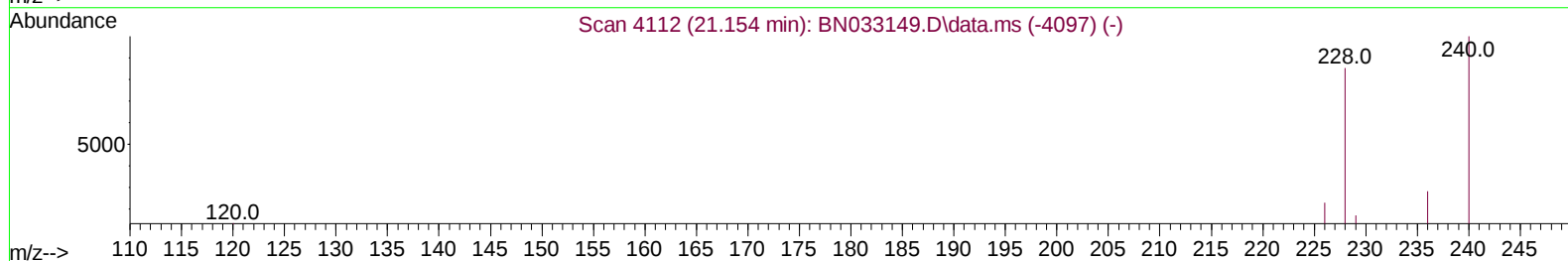
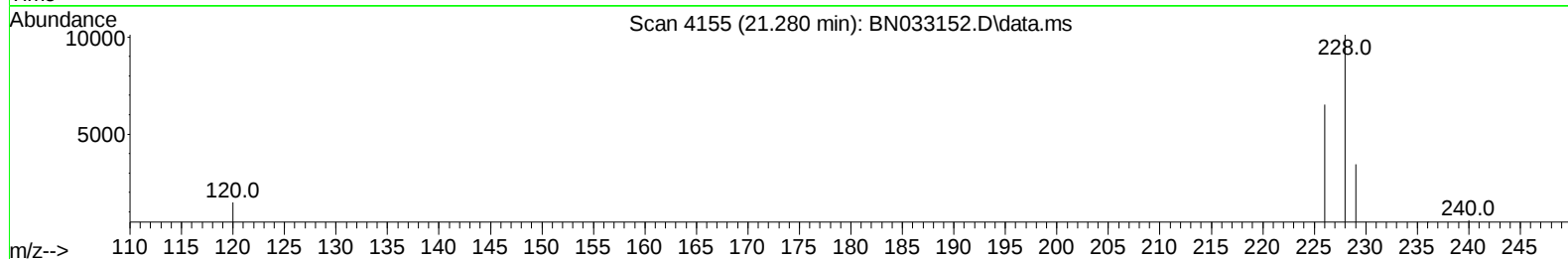
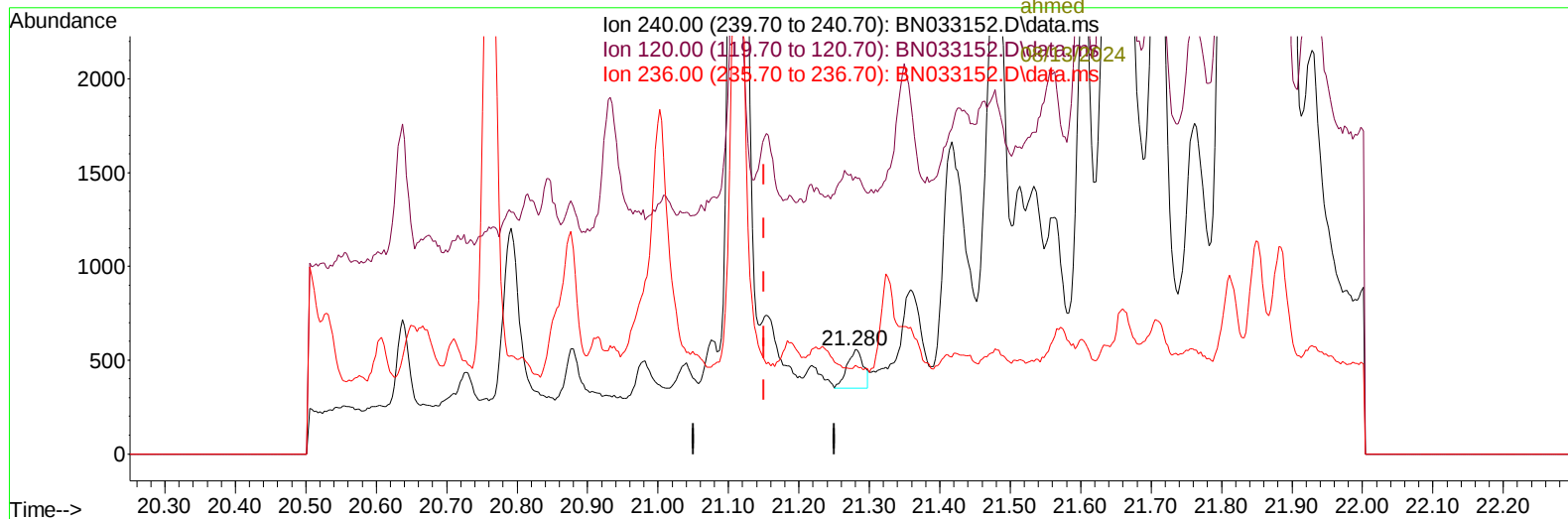
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
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08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (17) Chrysene-d12

21.280min (+ 0.129) 0.40 ng/u1

response 330

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 240.00 | 100.00 | 100.00  |
| 120.00 | 21.40  | 265.65# |
| 236.00 | 29.50  | 84.89#  |
| 0.00   | 0.00   | 0.00    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

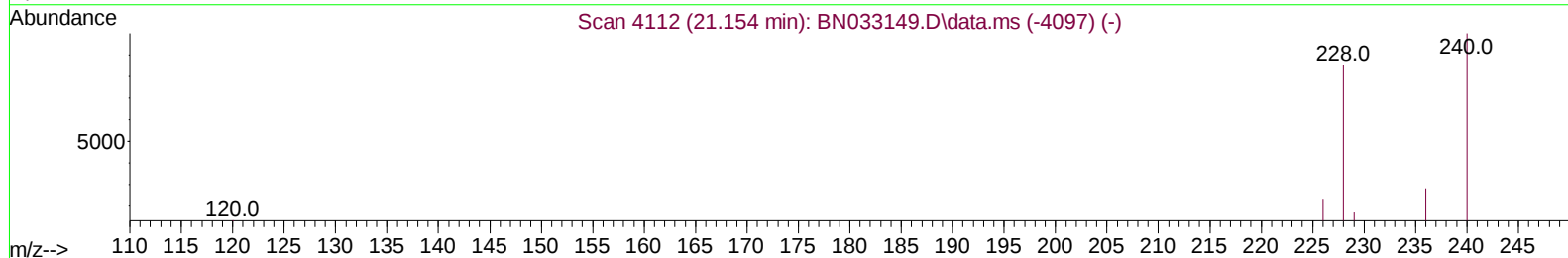
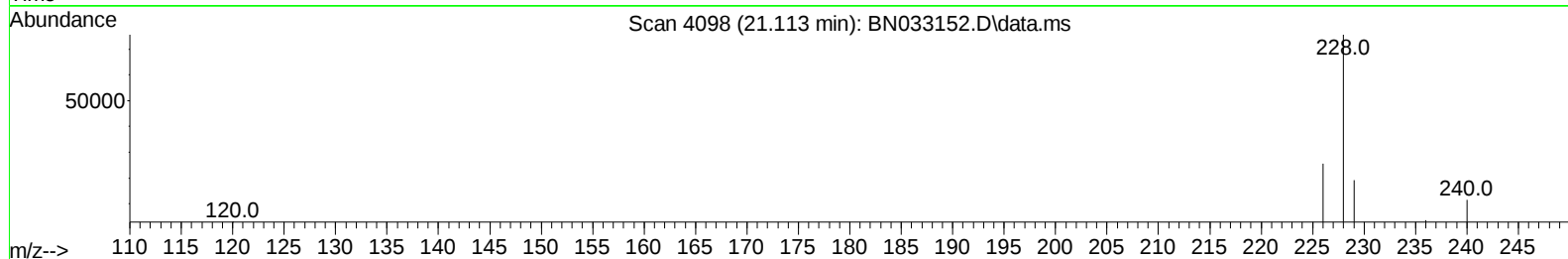
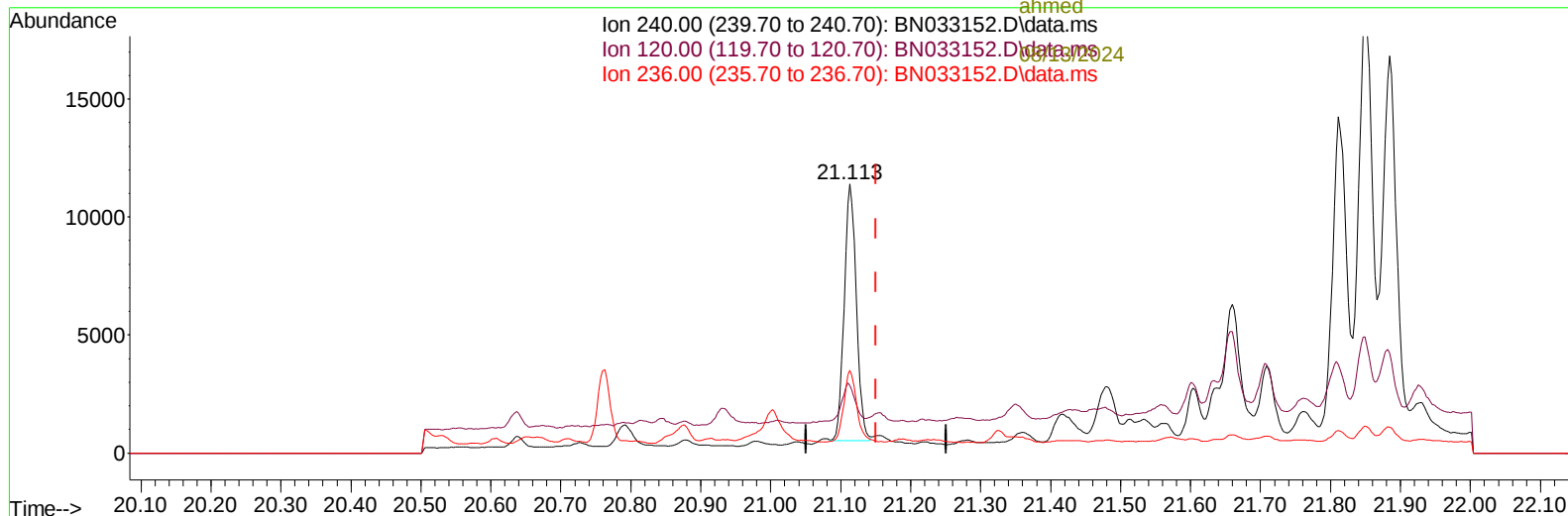
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (17) Chrysene-d12

21.113min (-0.038) 0.40 ng/u1 m

response 13065

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 240.00 | 100.00 | 100.00 |
| 120.00 | 21.40  | 25.15  |
| 236.00 | 29.50  | 30.90  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

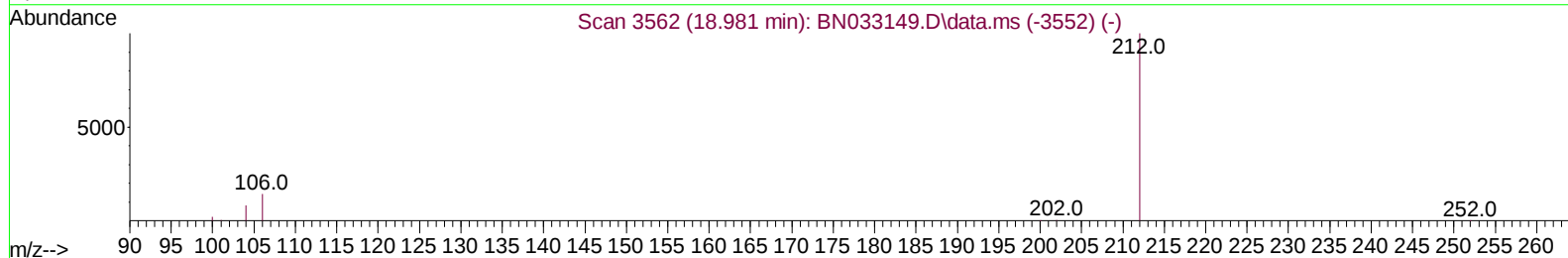
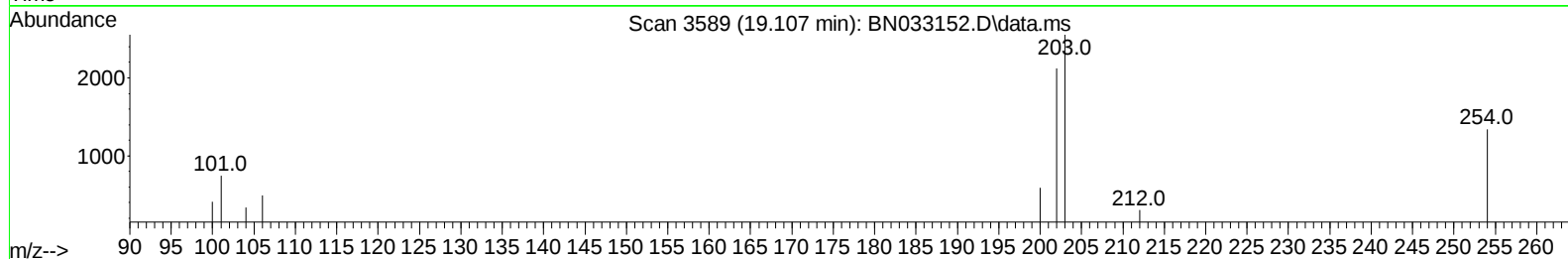
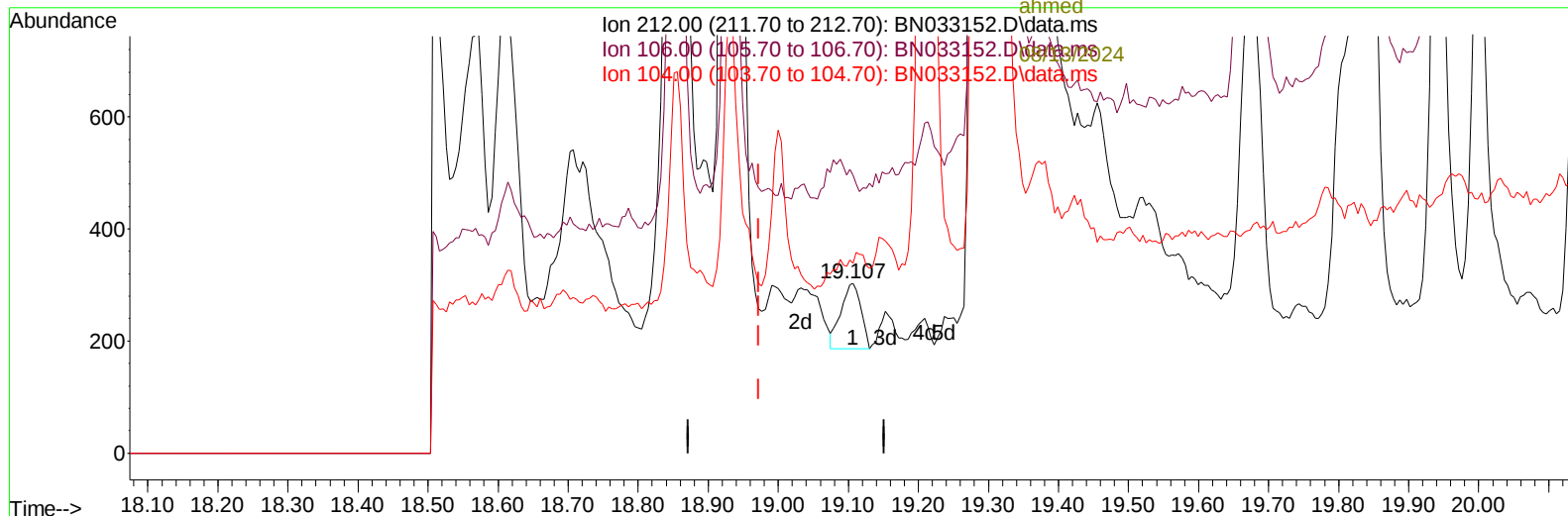
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
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Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (18) Fluoranthene-d10 (SURR)

19.107min (+ 0.135) 0.01 ng/u1

response 231

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 212.00 | 100.00 | 100.00 |
| 106.00 | 15.00  | 75.32# |
| 104.00 | 9.00   | 0.00#  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

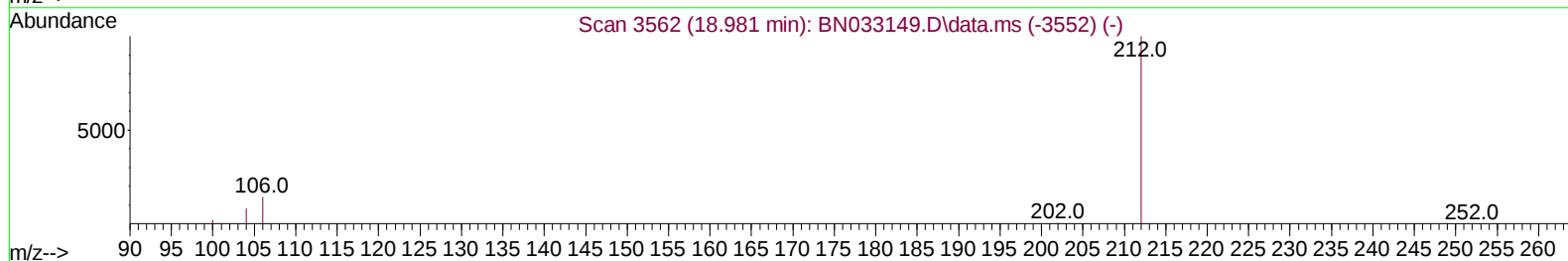
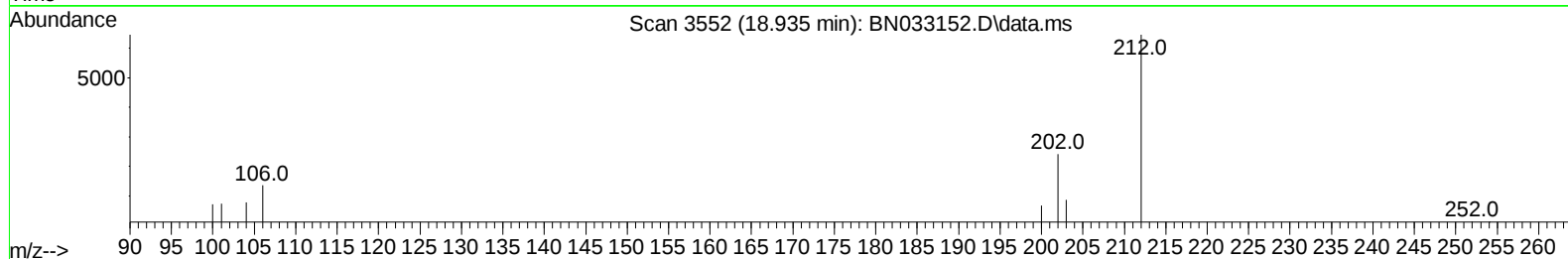
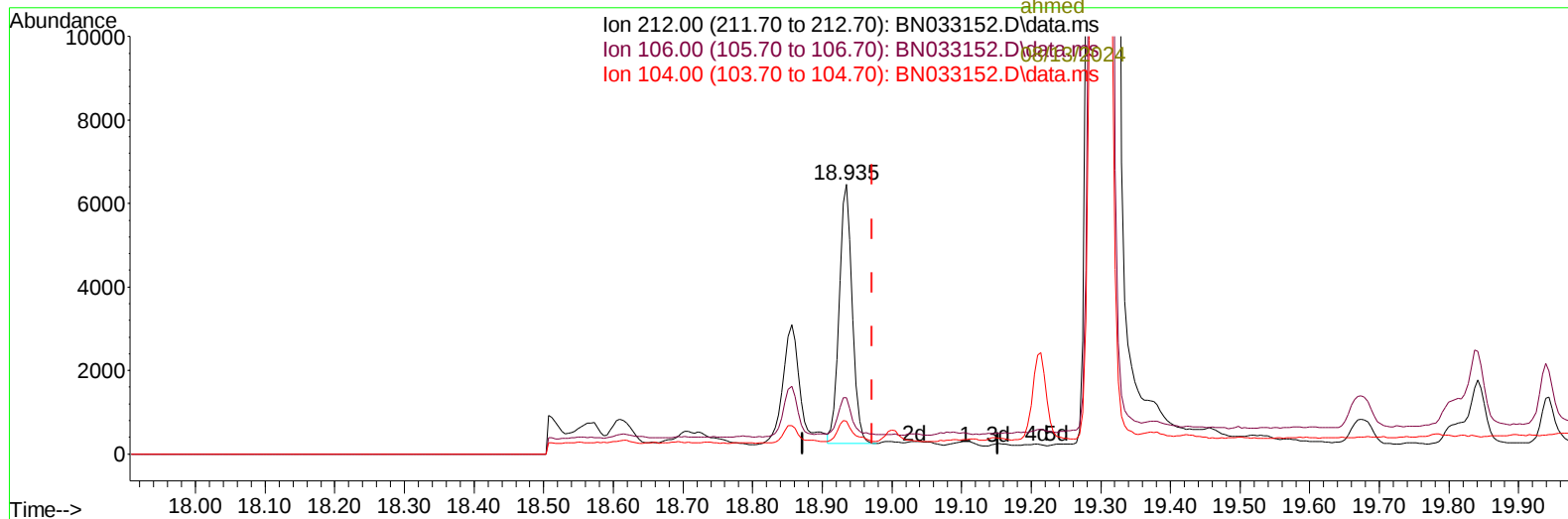
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

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Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (18) Fluoranthene-d10 (SURR)

18.935min (-0.037) 0.22 ng/u1 m

response 8129

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 212.00 | 100.00 | 100.00 |
| 106.00 | 15.00  | 2.14#  |
| 104.00 | 9.00   | 0.00#  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

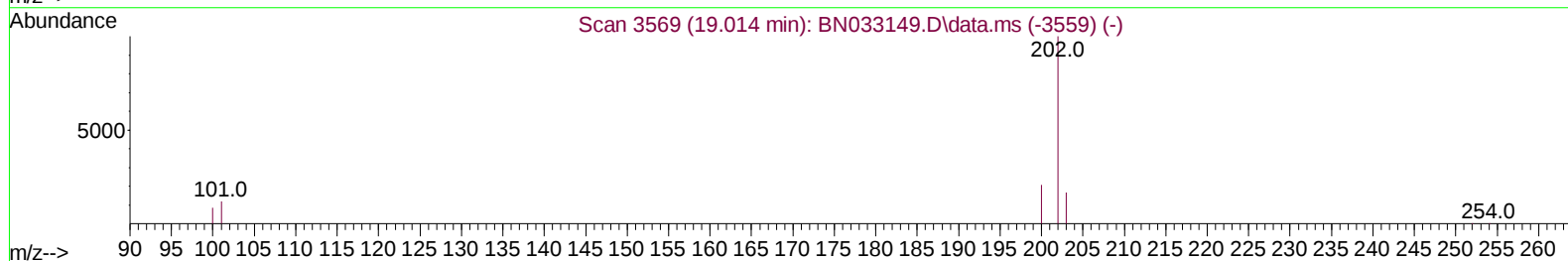
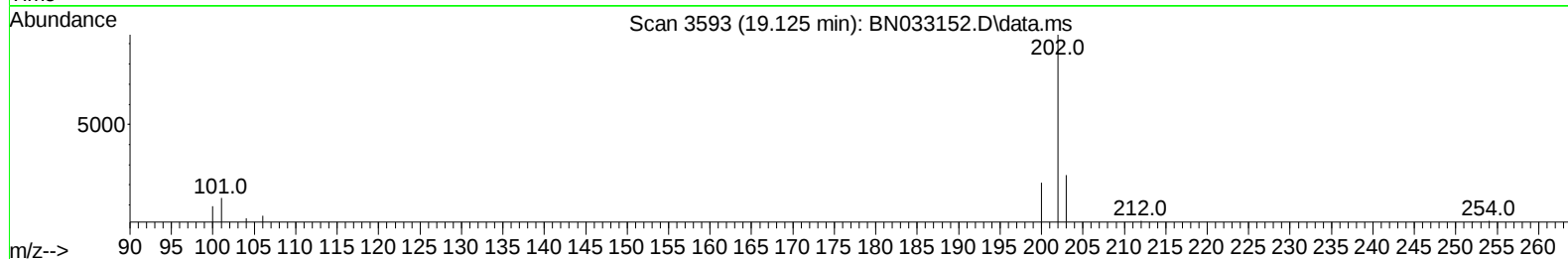
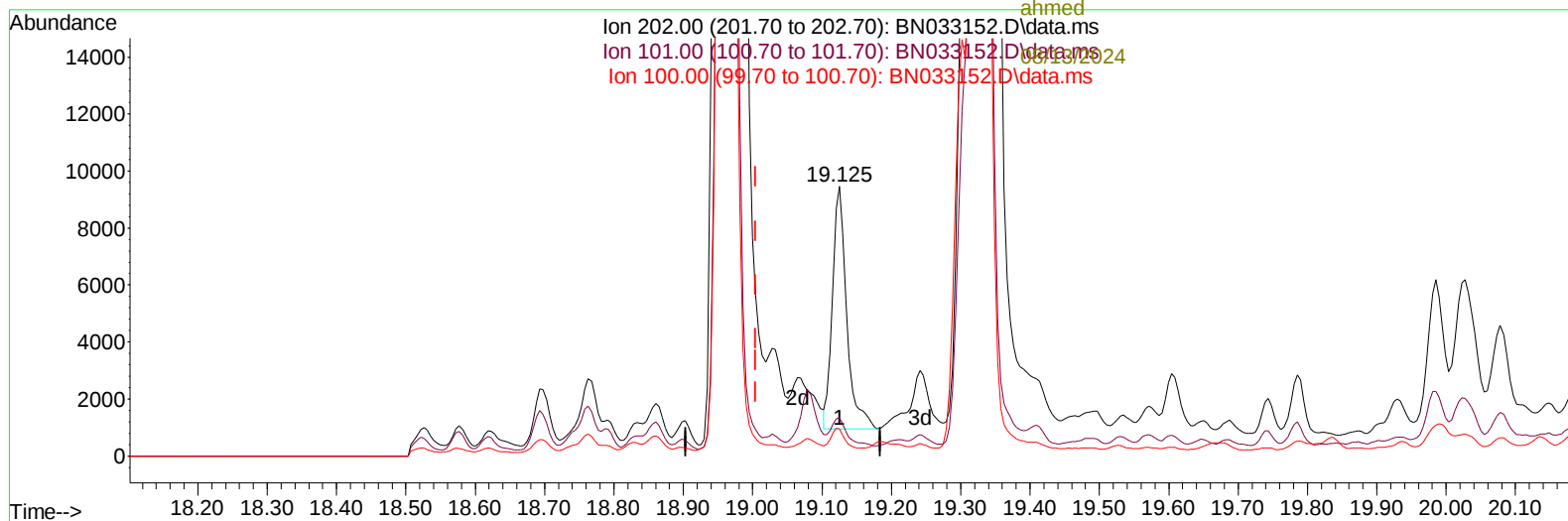
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

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08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (19) Fluoranthene (C)

19.125min (+ 0.121) 0.28 ng/u1

response 12223

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 13.40  | 14.12  |
| 100.00 | 10.40  | 9.96   |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
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 Operator : MA/JU  
 Sample : P3265-08  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

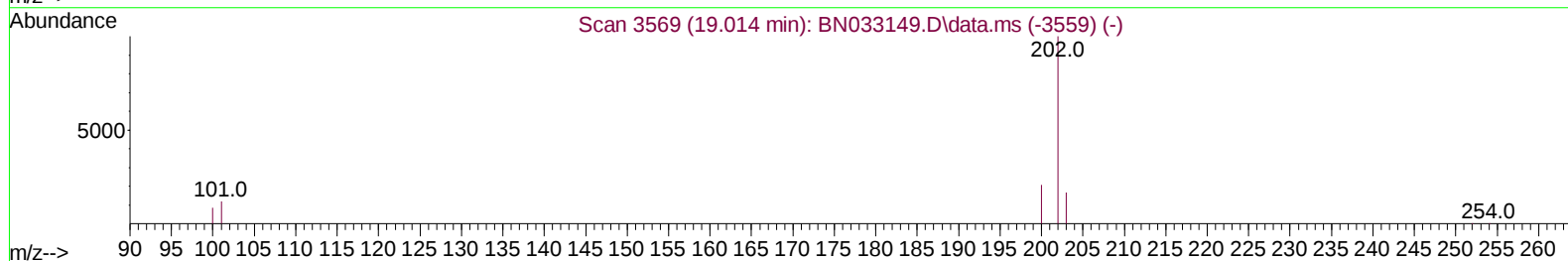
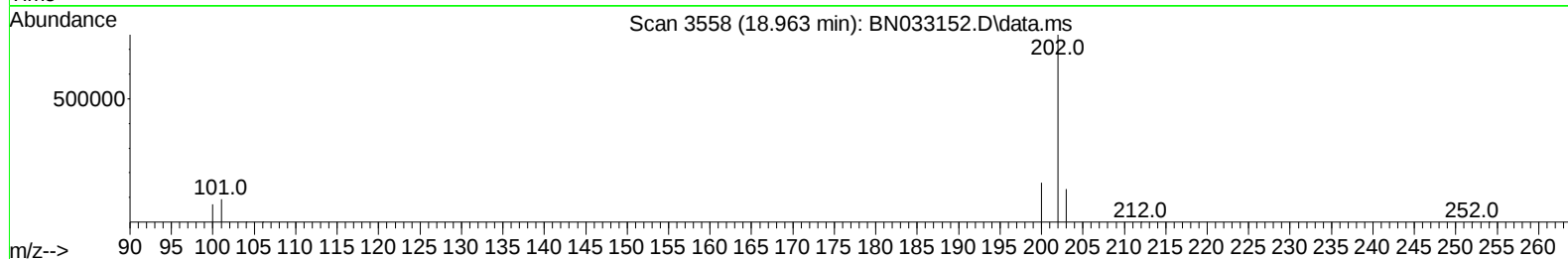
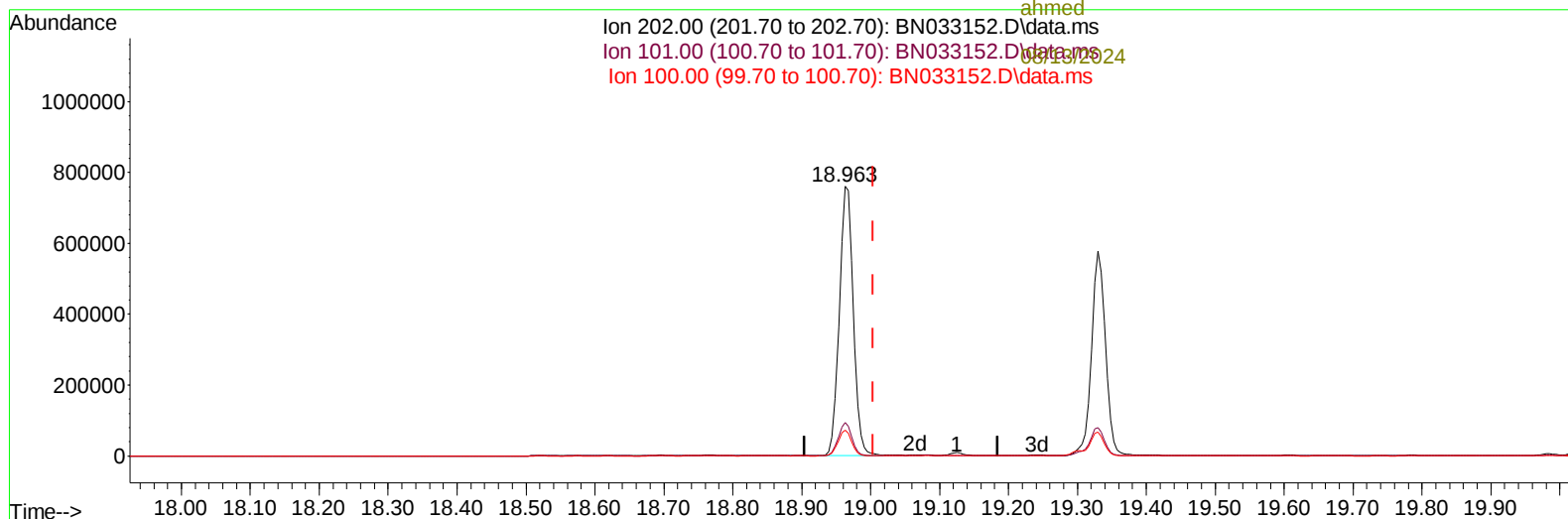
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 30 14:49:49 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
 Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
 Supervised By :mohammad  
 ahmed



TIC: BN033152.D\data.ms

## (19) Fluoranthene (C)

18.963min (-0.042) 24.76 ng/ul m

response 1065243

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 13.40  | 12.29  |
| 100.00 | 10.40  | 9.55   |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
 Data File : BN033152.D  
 Acq On : 01 Aug 2024 04:42  
 Operator : MA/JU  
 Sample : P3265-08  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

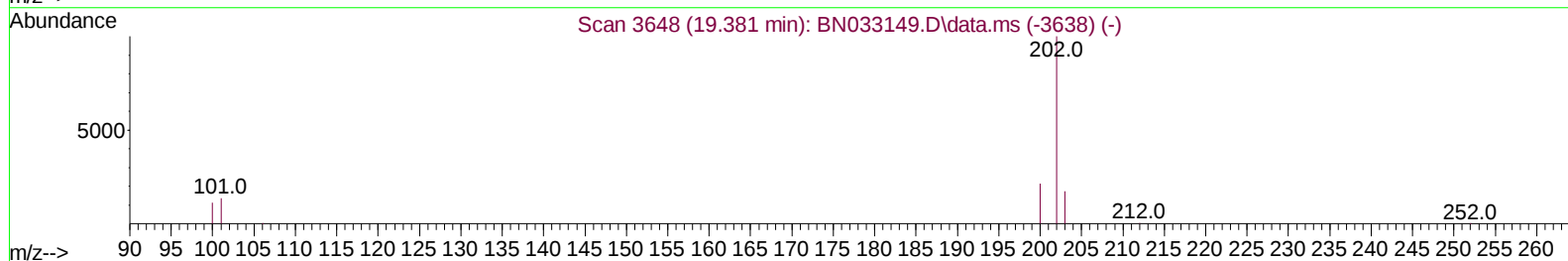
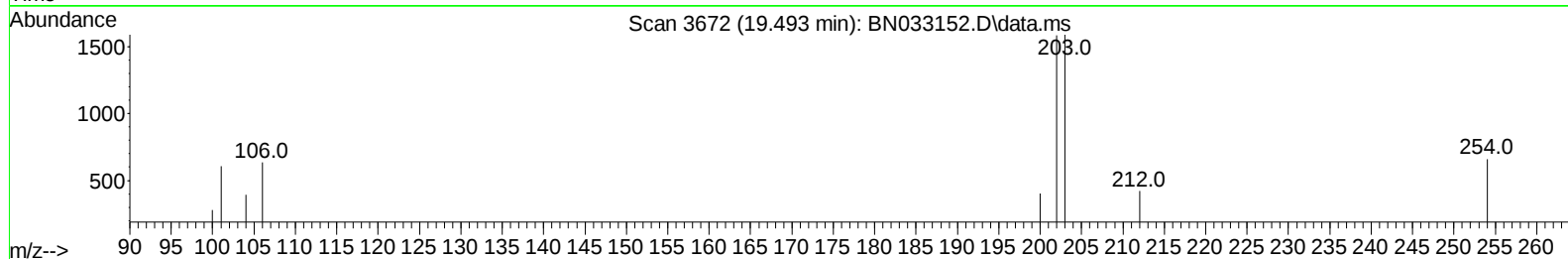
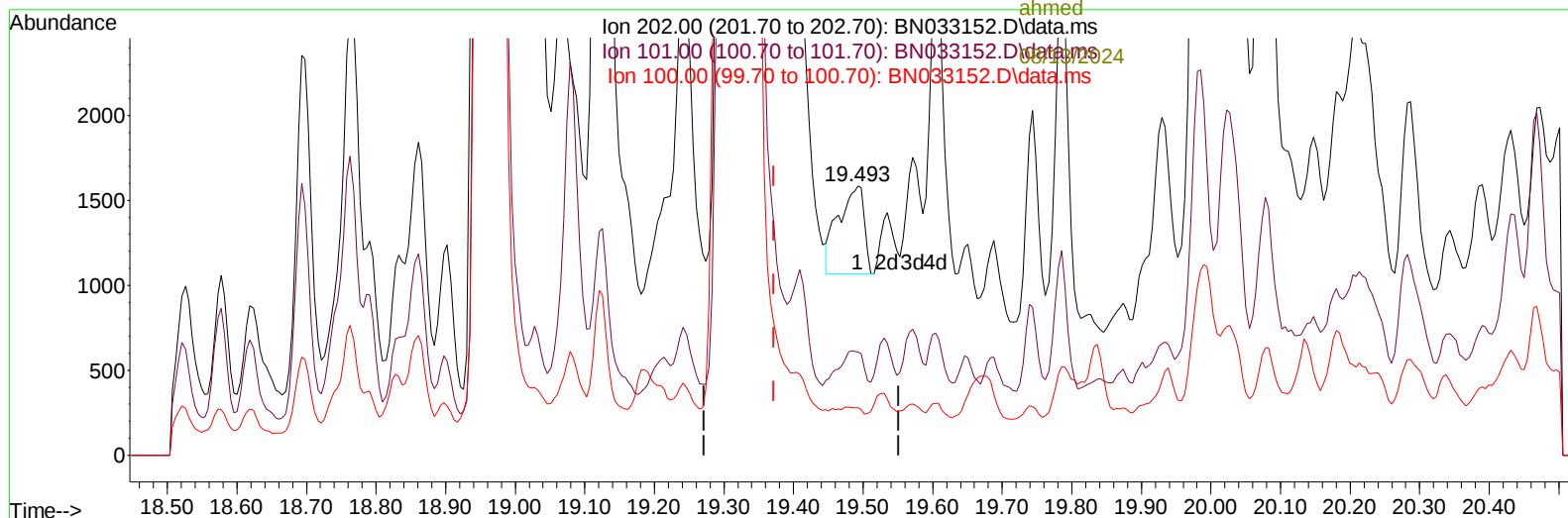
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D41

Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 30 14:49:49 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
 Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
 Supervised By :mohammad  
 ahmed



TIC: BN033152.D\data.ms

**(20) Pyrene**

**19.493min (+ 0.121) 0.03 ng/u1**

**response 1337**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 15.70  | 38.38# |
| 100.00 | 12.40  | 17.55# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

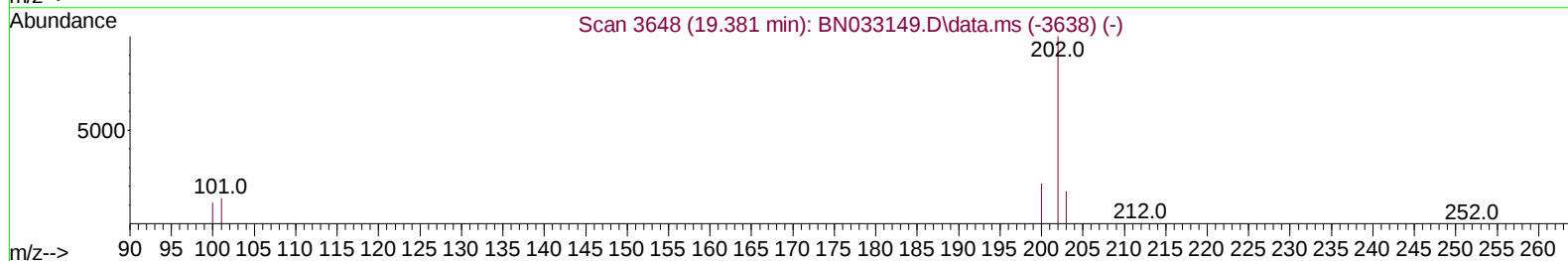
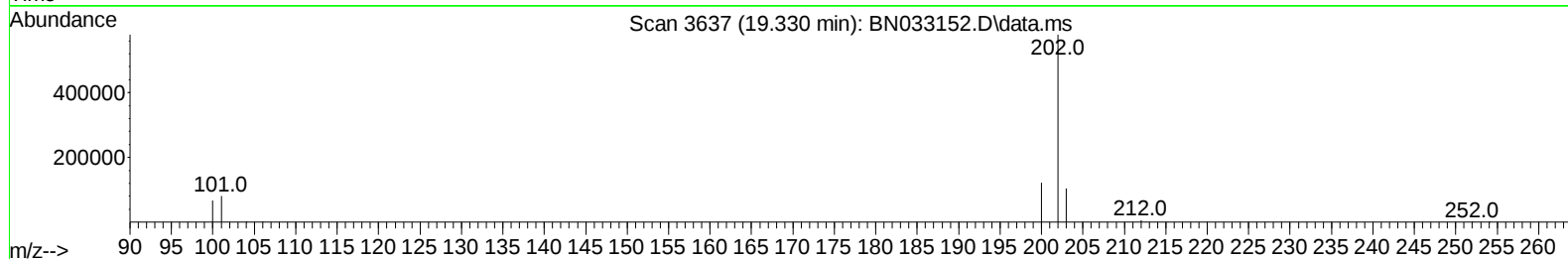
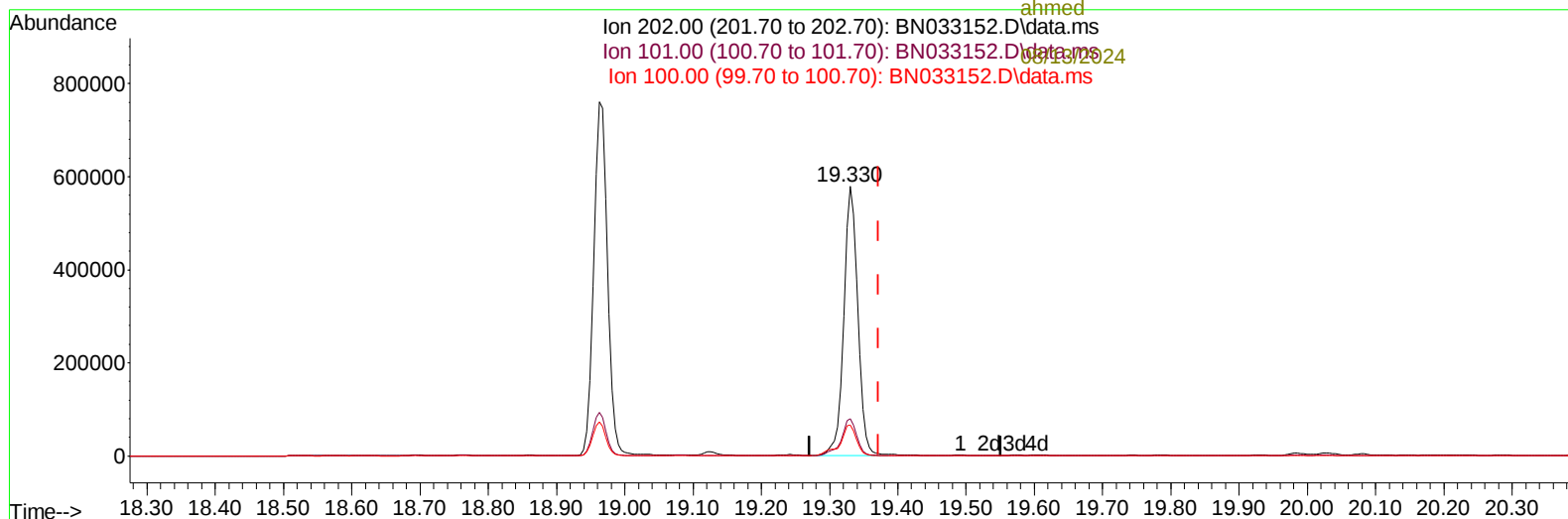
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (20) Pyrene

19.330min (-0.042) 17.81 ng/ul m

response 821737

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 15.70  | 13.92  |
| 100.00 | 12.40  | 11.53  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

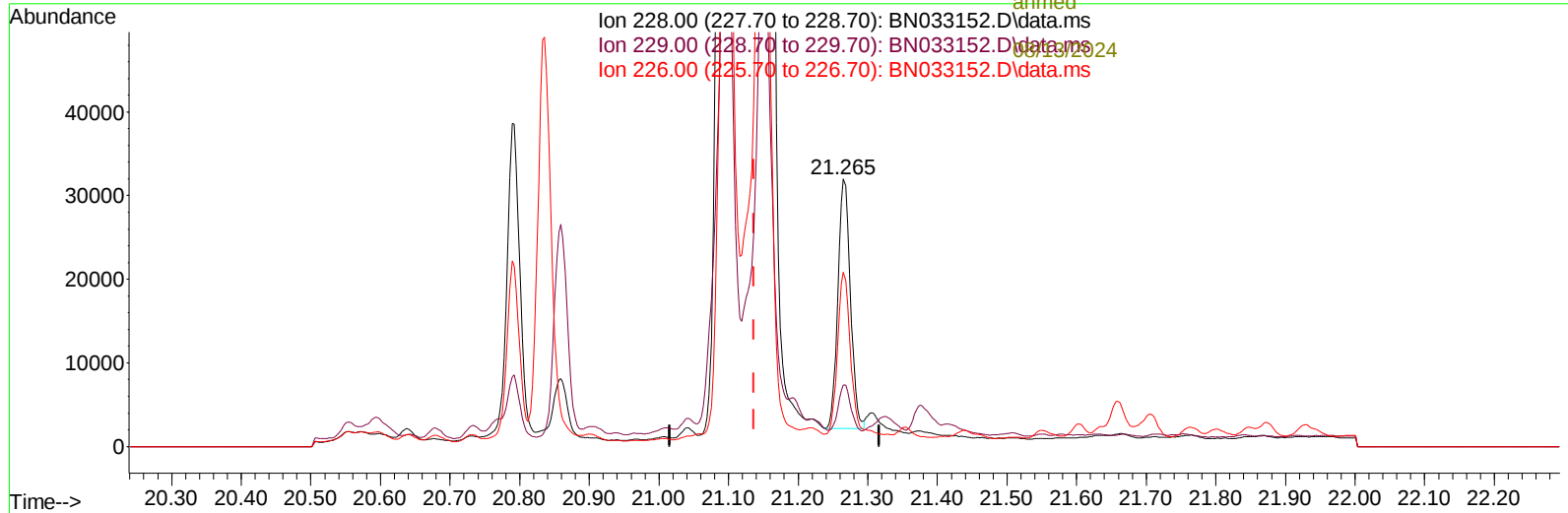
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

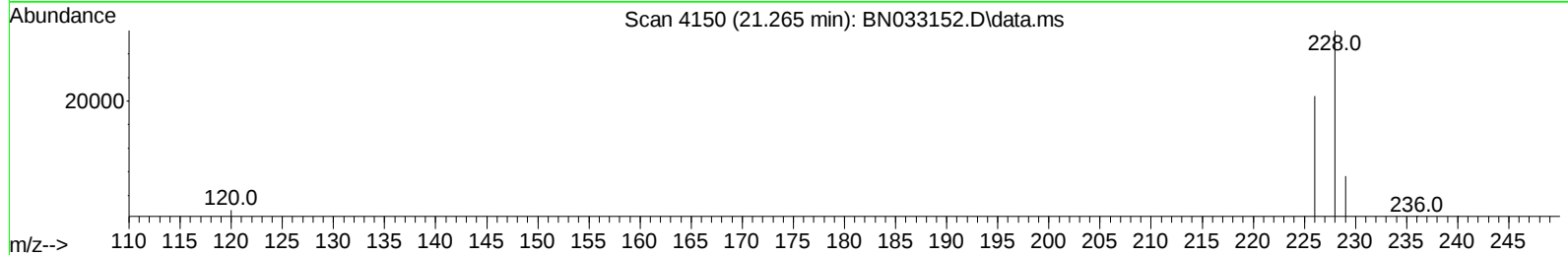
Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

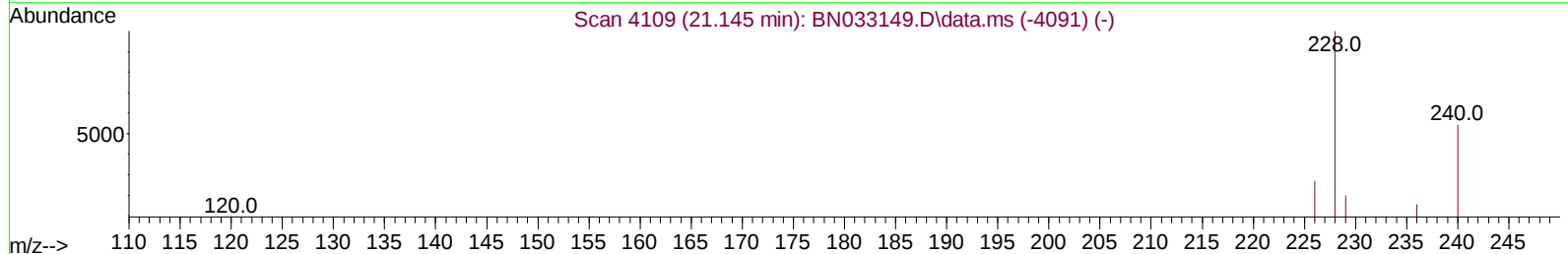
Ion 228.00 (227.70 to 228.70): BN033152.D\data.ms  
Ion 229.00 (228.70 to 229.70): BN033152.D\data.ms  
Ion 226.00 (225.70 to 226.70): BN033152.D\data.ms



Scan 4150 (21.265 min): BN033152.D\data.ms



Scan 4109 (21.145 min): BN033149.D\data.ms (-4091) (-)



TIC: BN033152.D\data.ms

**(21) Benzo(a)anthracene**

21.265min (+ 0.129) 0.83 ng/u1

response 37150

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 229.00 | 21.40  | 22.91  |
| 226.00 | 28.00  | 65.27# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

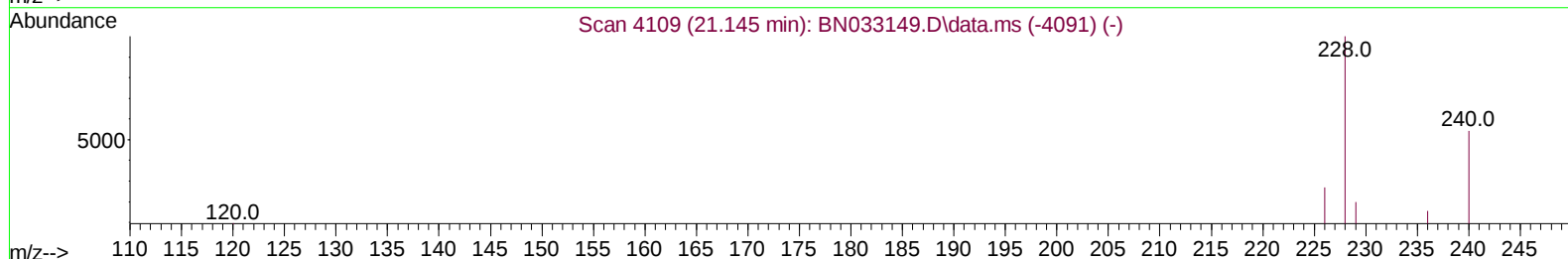
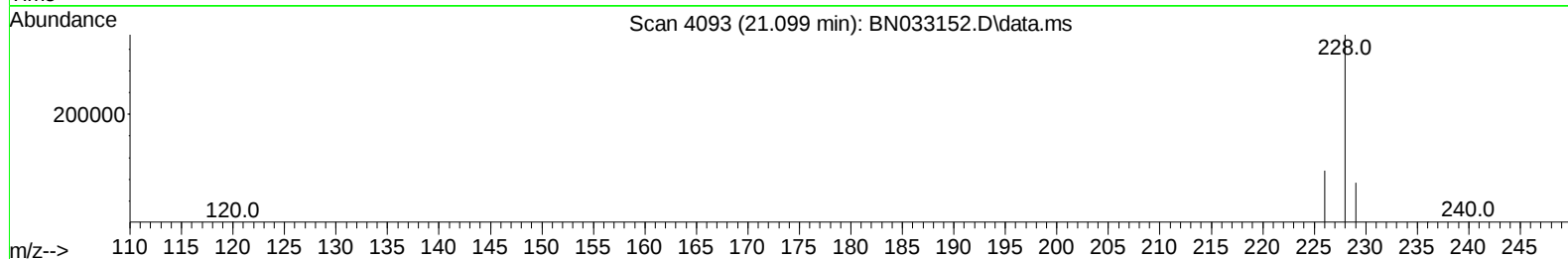
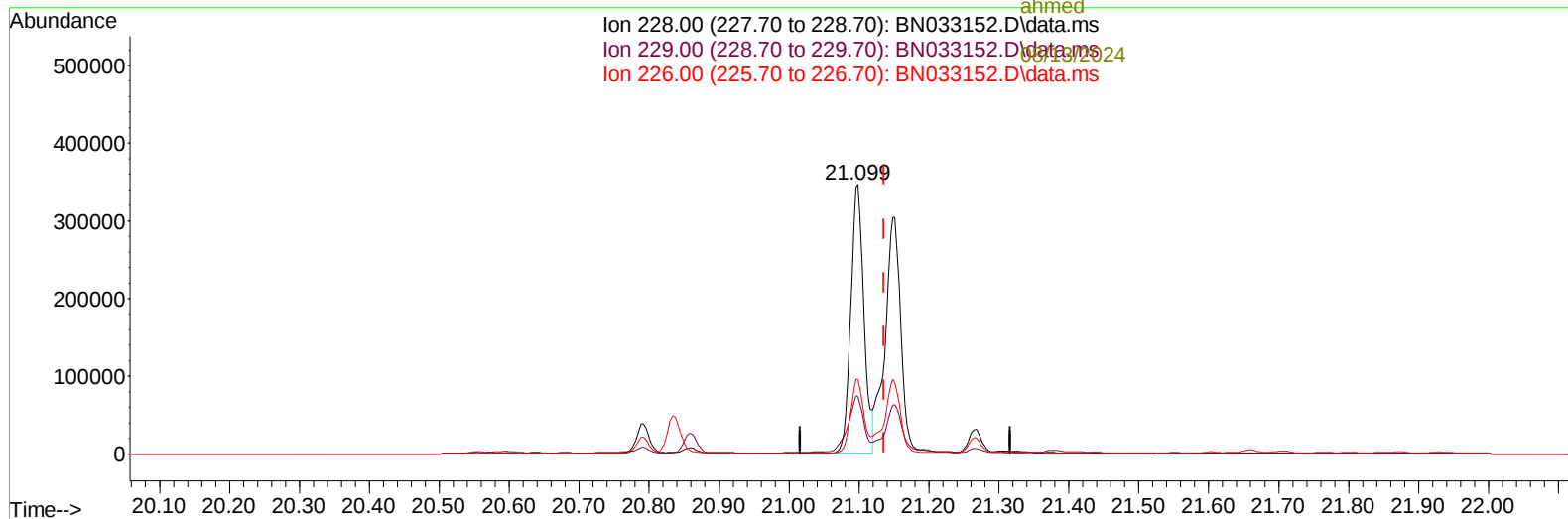
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

Ion 228.00 (227.70 to 228.70): BN033152.D\data.ms  
Ion 229.00 (228.70 to 229.70): BN033152.D\data.ms  
Ion 226.00 (225.70 to 226.70): BN033152.D\data.ms



TIC: BN033152.D\data.ms

**(21) Benzo(a)anthracene**

21.099min (-0.038) 10.12 ng/ul m

response 450965

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 229.00 | 21.40  | 21.31  |
| 226.00 | 28.00  | 27.71  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

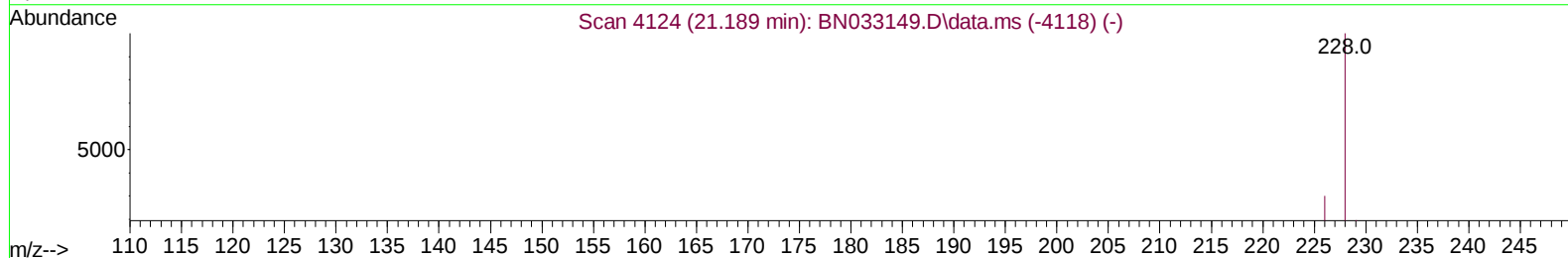
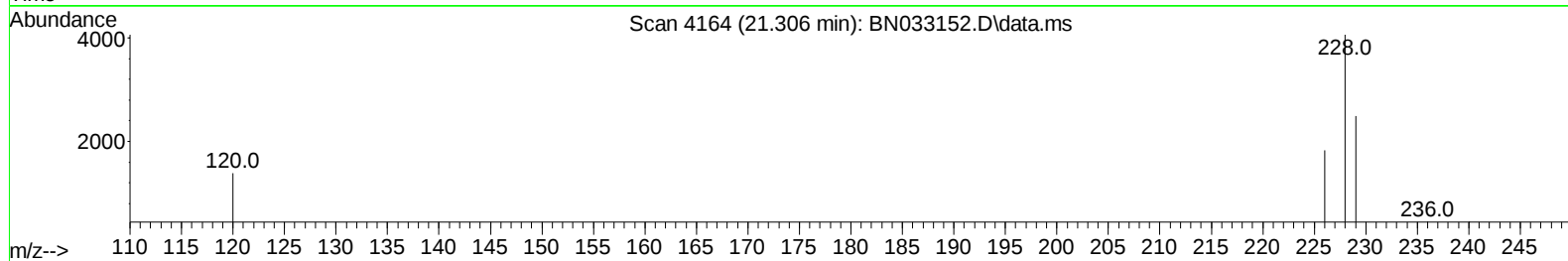
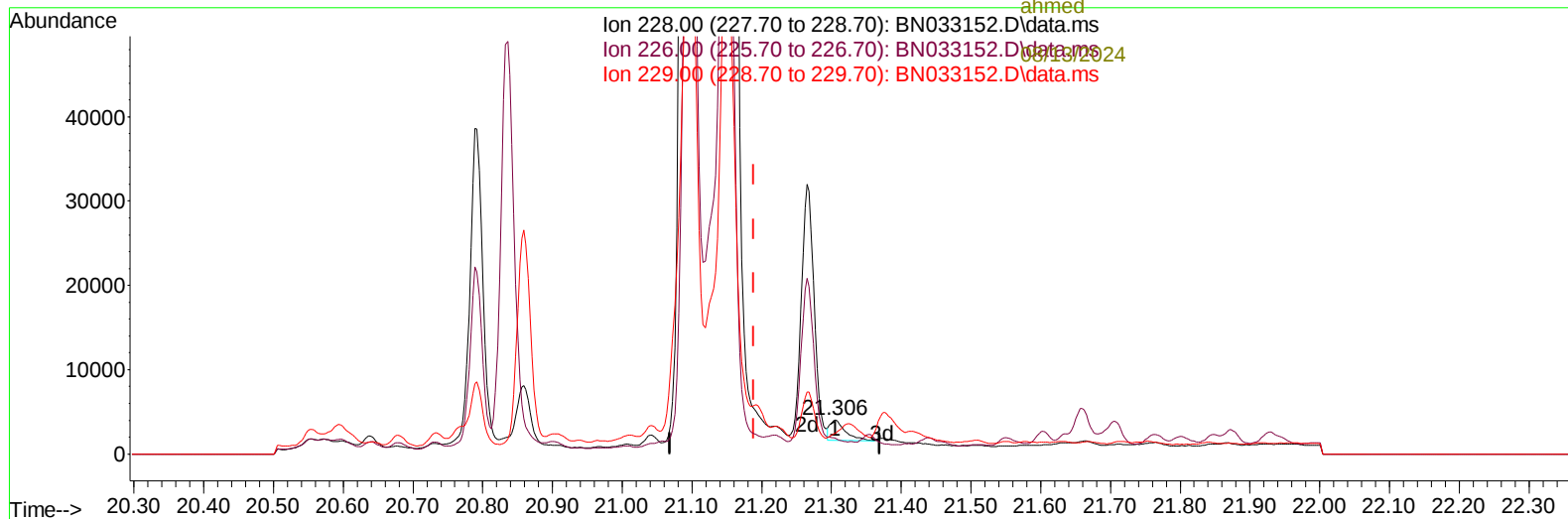
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (22) Chrysene

21.306min (+ 0.117) 0.07 ng/u1

response 3679

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.90  | 45.08# |
| 229.00 | 21.30  | 61.25# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

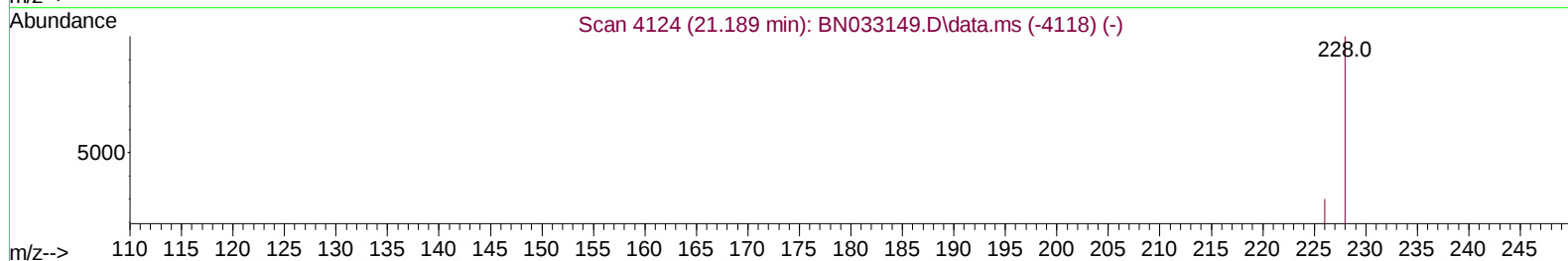
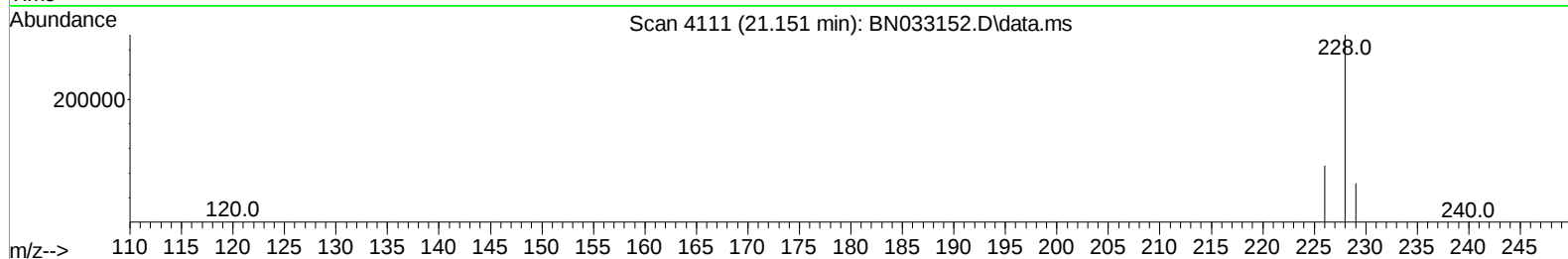
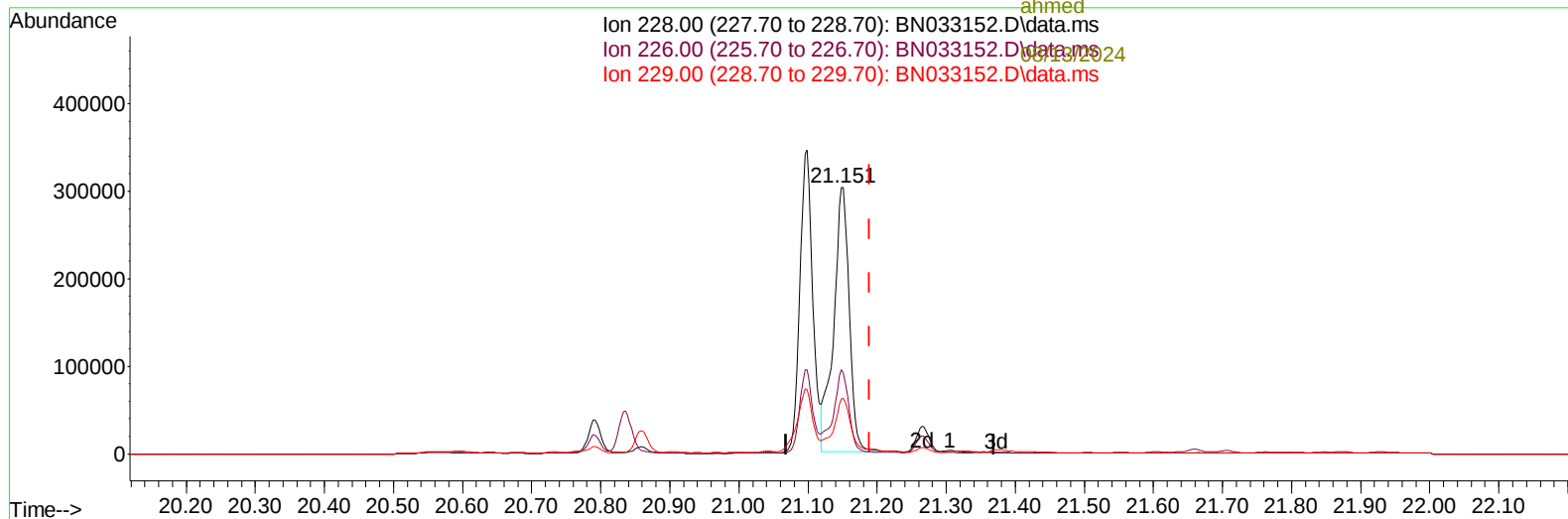
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (22) Chrysene

21.151min (-0.038) 9.03 ng/u1 m

response 469667

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.90  | 30.35  |
| 229.00 | 21.30  | 20.96  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

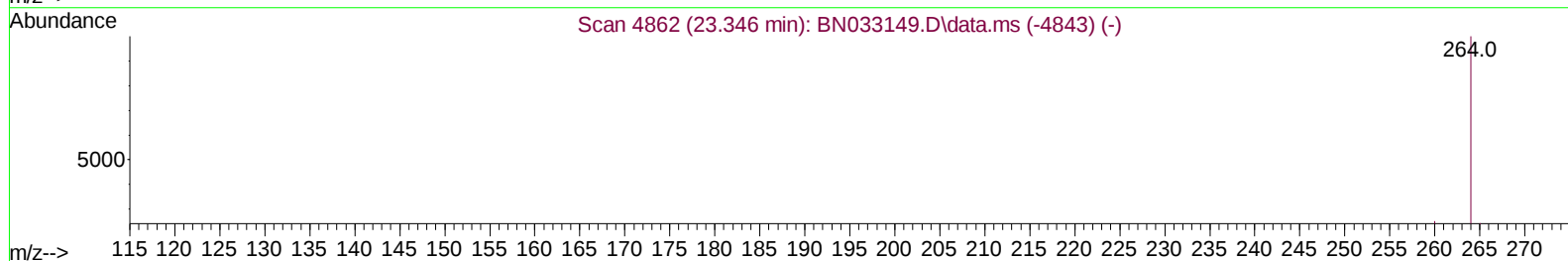
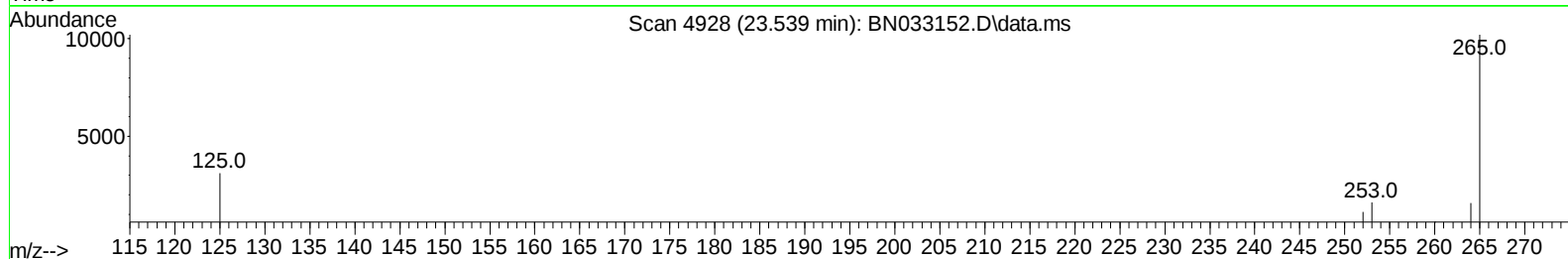
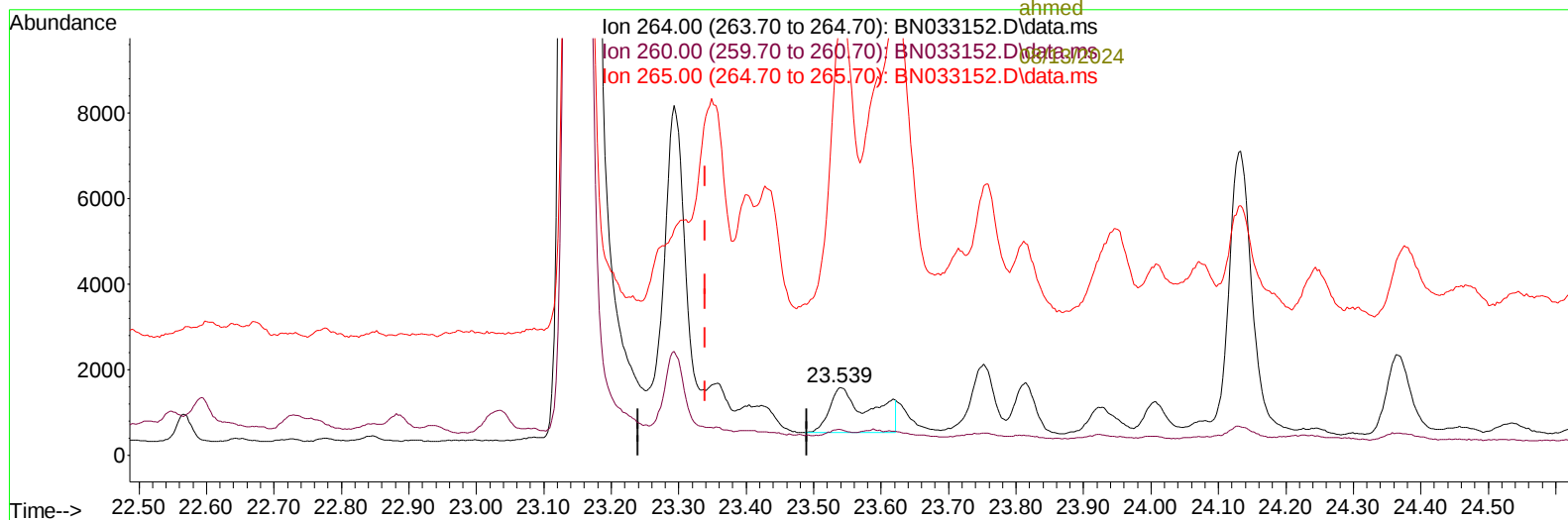
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (23) Perylene-d12 (I)

23.539min (+ 0.199) 0.40 ng/u1

response 4494

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 264.00 | 100.00 | 100.00  |
| 260.00 | 26.50  | 38.27#  |
| 265.00 | 80.60  | 645.16# |
| 0.00   | 0.00   | 0.00    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

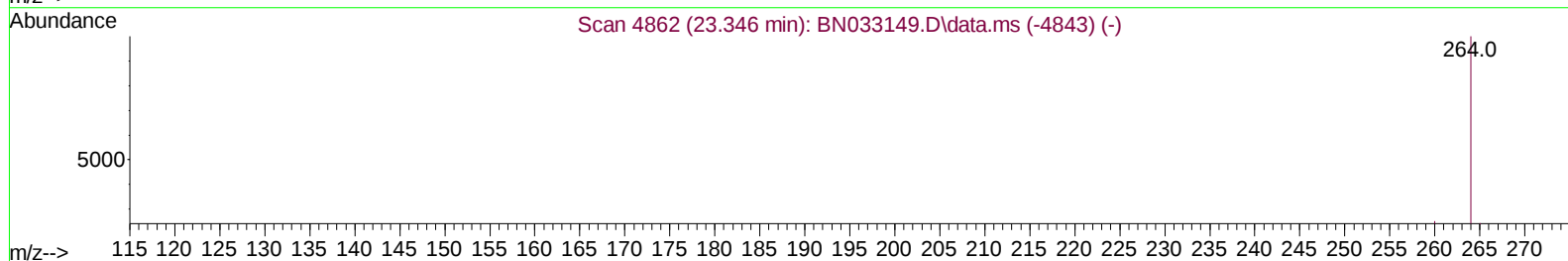
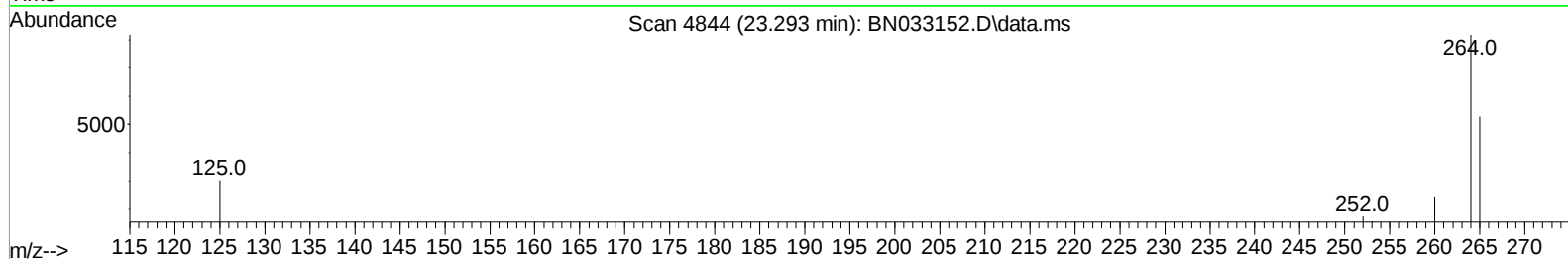
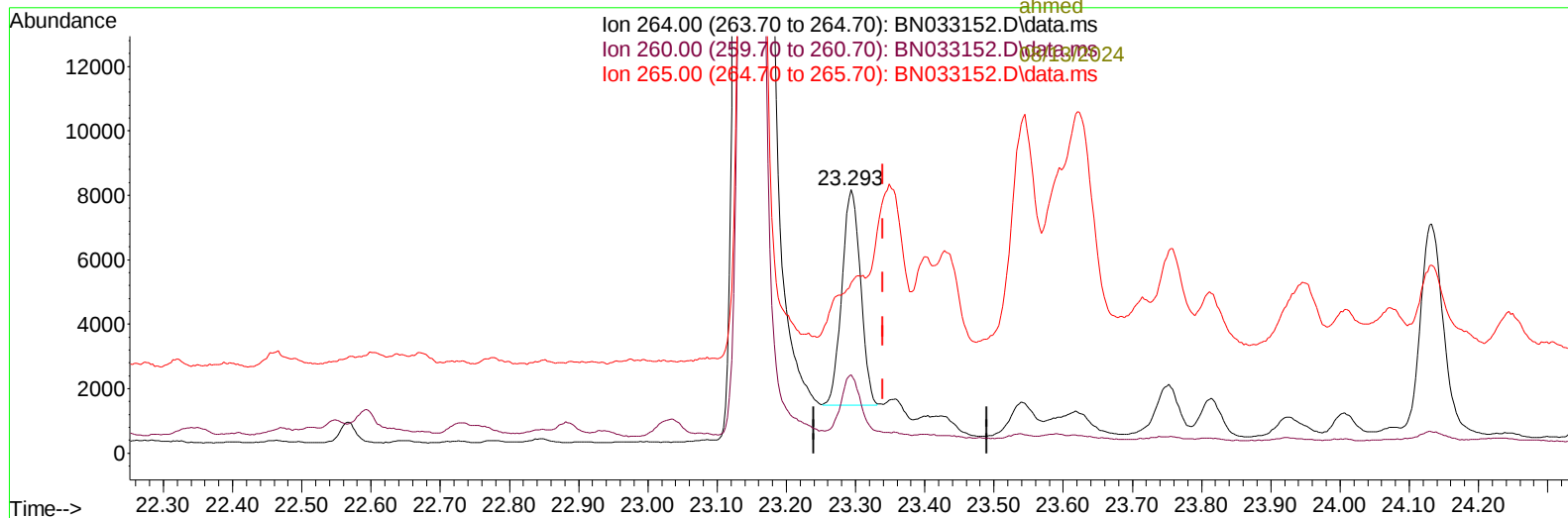
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
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08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (23) Perylene-d12 (I)

23.293min (-0.047) 0.40 ng/ul m

response 12443

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.50  | 29.68  |
| 265.00 | 80.60  | 64.55  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

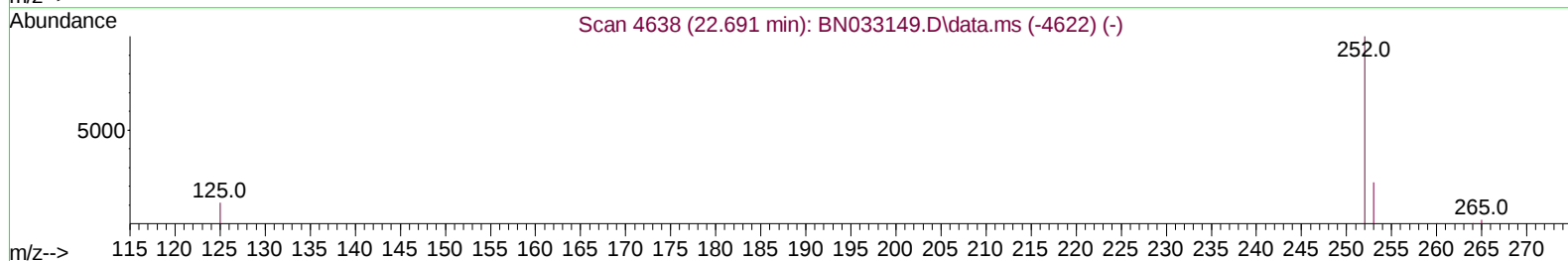
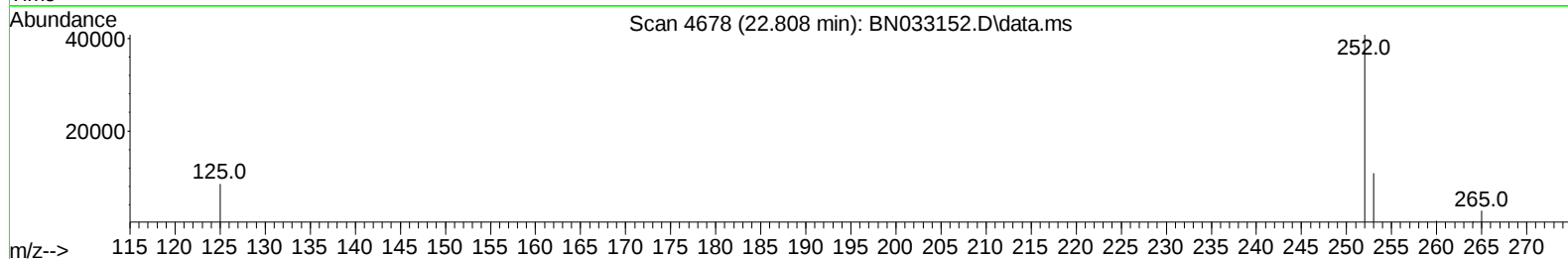
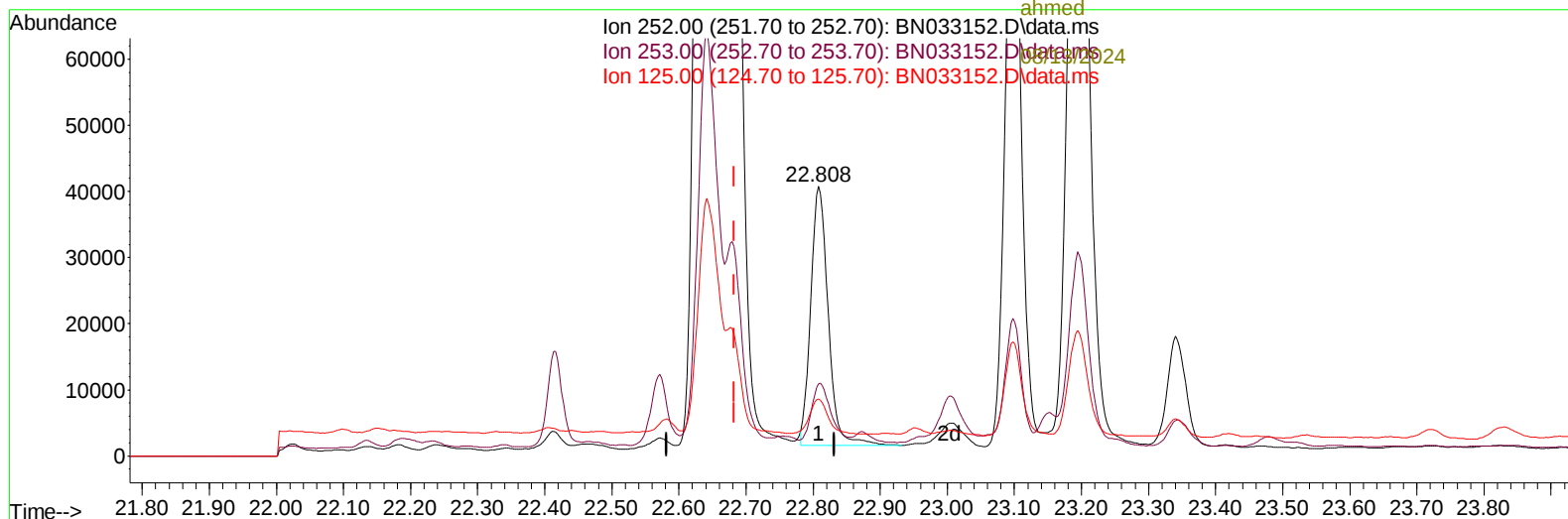
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

**(24) Benzo(b)fluoranthene**

22.808min (+ 0.126) 1.95 ng/u1

response 70889

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 30.30  | 26.81  |
| 125.00 | 25.50  | 21.05  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

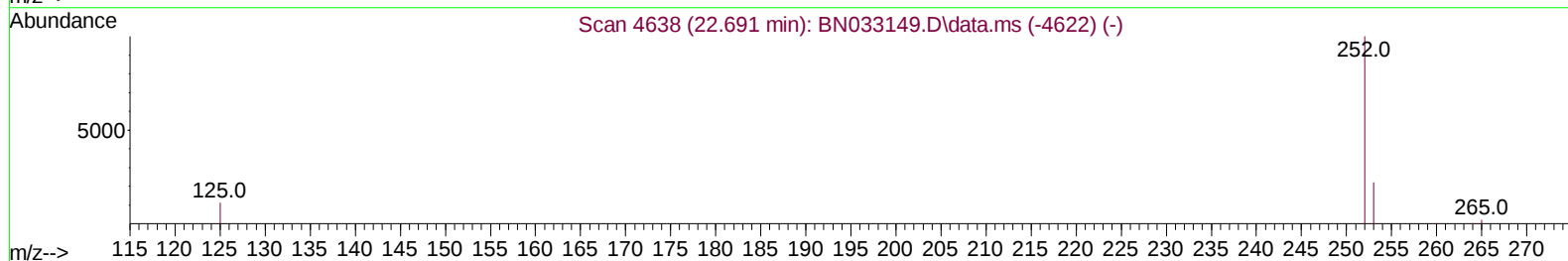
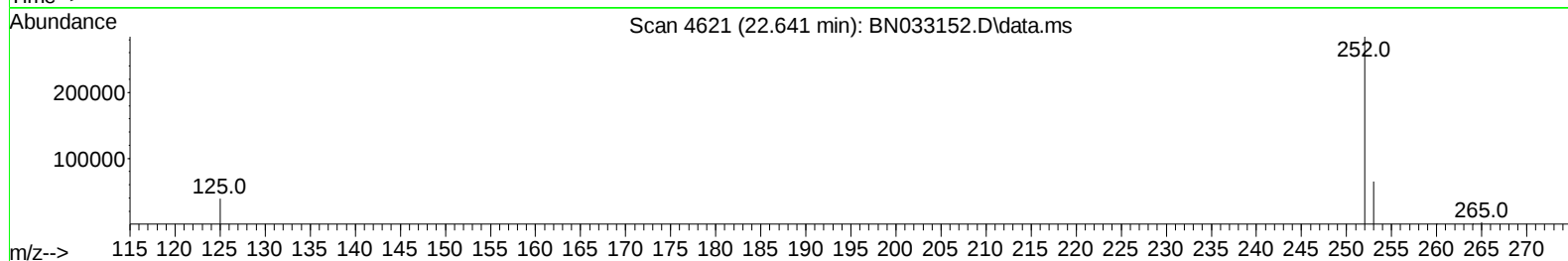
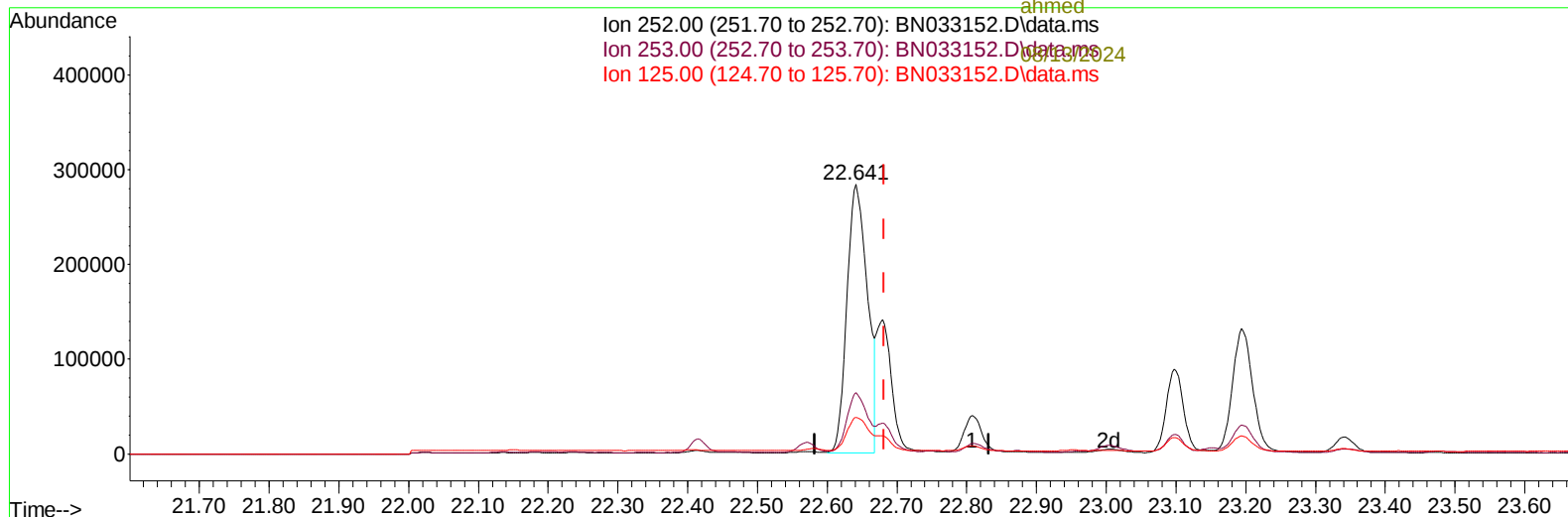
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

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Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

Ion 252.00 (251.70 to 252.70): BN033152.D\data.ms  
Ion 253.00 (252.70 to 253.70): BN033152.D\data.ms  
Ion 125.00 (124.70 to 125.70): BN033152.D\data.ms



TIC: BN033152.D\data.ms

## (24) Benzo(b)fluoranthene

22.641min (-0.041) 15.97 ng/ul m

response 580503

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 30.30  | 22.76  |
| 125.00 | 25.50  | 13.68  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

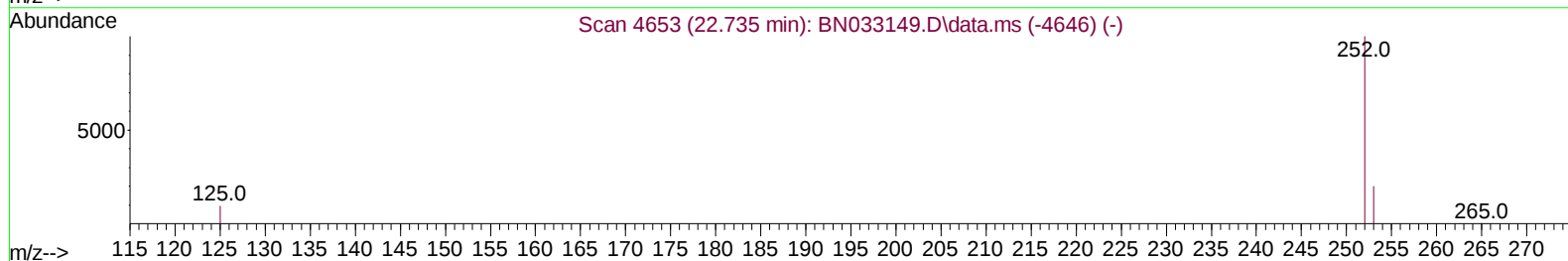
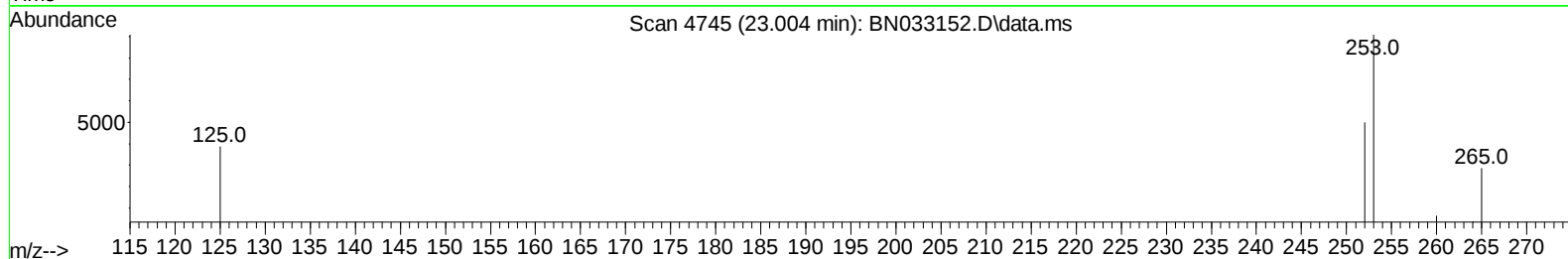
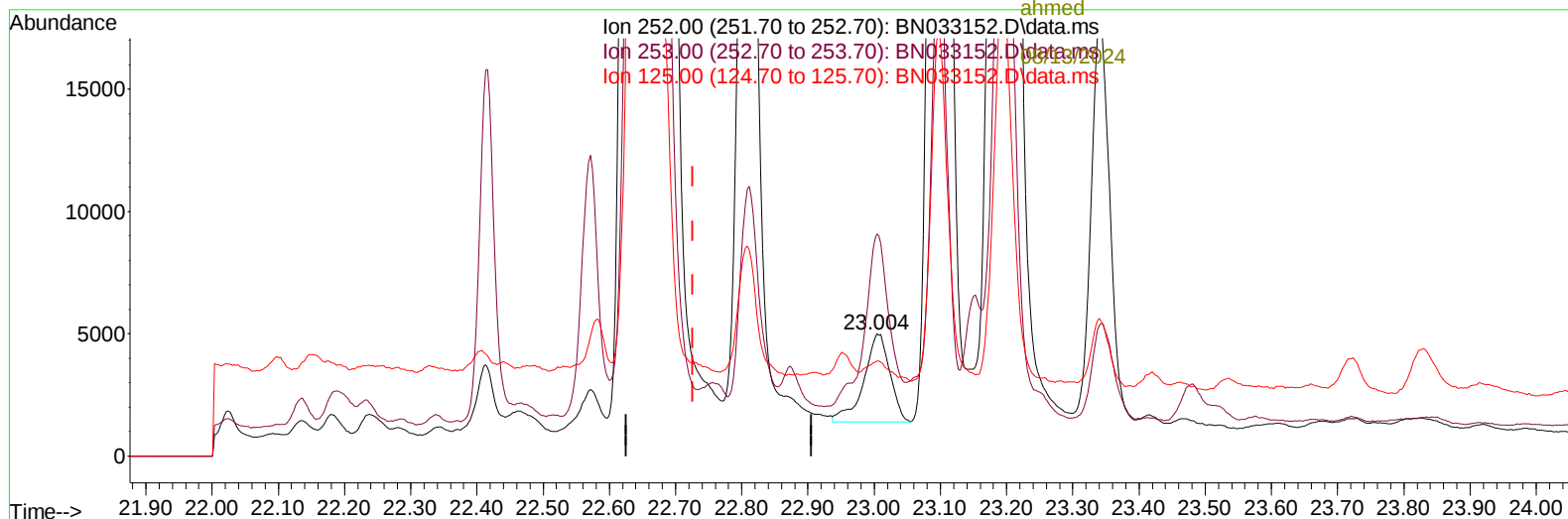
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (25) Benzo(k)fluoranthene

23.004min (+ 0.278) 0.23 ng/u1

response 9825

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 252.00 | 100.00 | 100.00  |
| 253.00 | 31.10  | 181.62# |
| 125.00 | 26.10  | 77.68#  |
| 0.00   | 0.00   | 0.00    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
 Data File : BN033152.D  
 Acq On : 01 Aug 2024 04:42  
 Operator : MA/JU  
 Sample : P3265-08  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

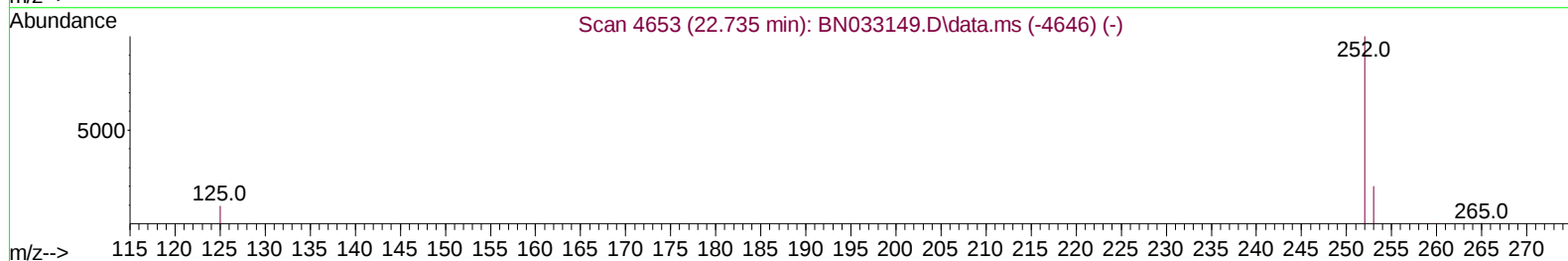
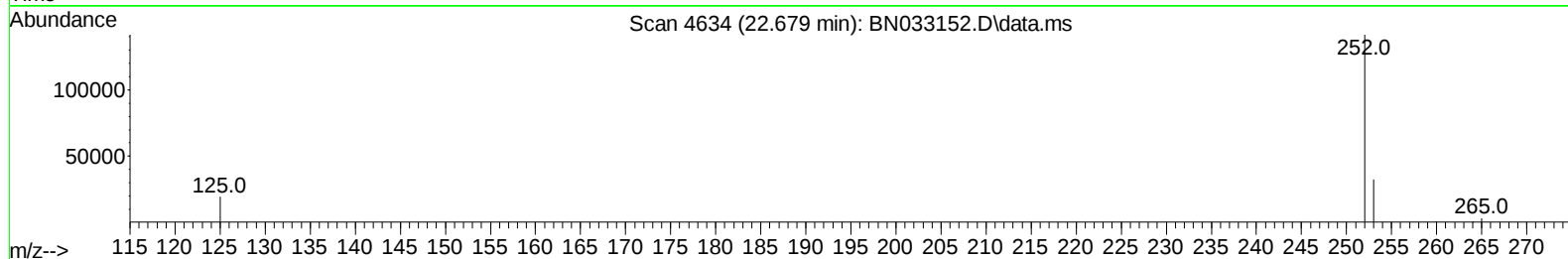
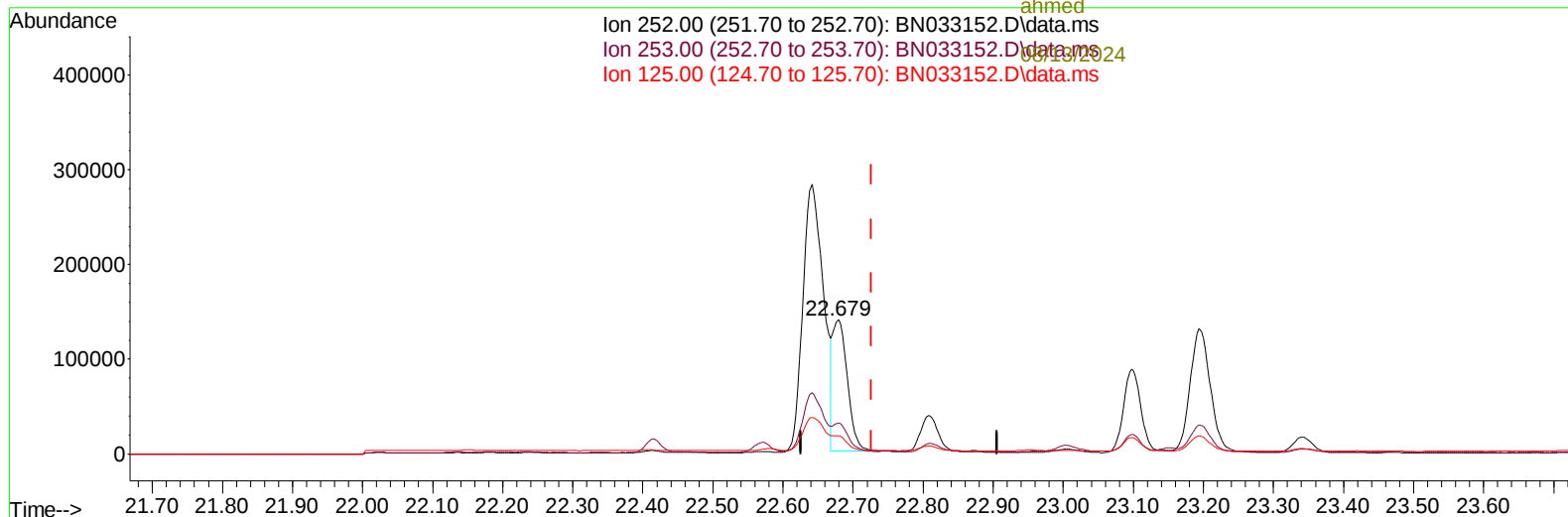
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D41

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 08/01/2024  
 Supervised By :mohammad ahmed 08/13/2024

Quant Time: Aug 01 07:31:56 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 30 14:49:49 2024  
 Response via : Initial Calibration

08/01/2024  
 Supervised By :mohammad  
 ahmed



TIC: BN033152.D\data.ms

## (25) Benzo(k)fluoranthene

22.679min (-0.047) 4.68 ng/u1 m

response 204001

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.10  | 22.91# |
| 125.00 | 26.10  | 13.63# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

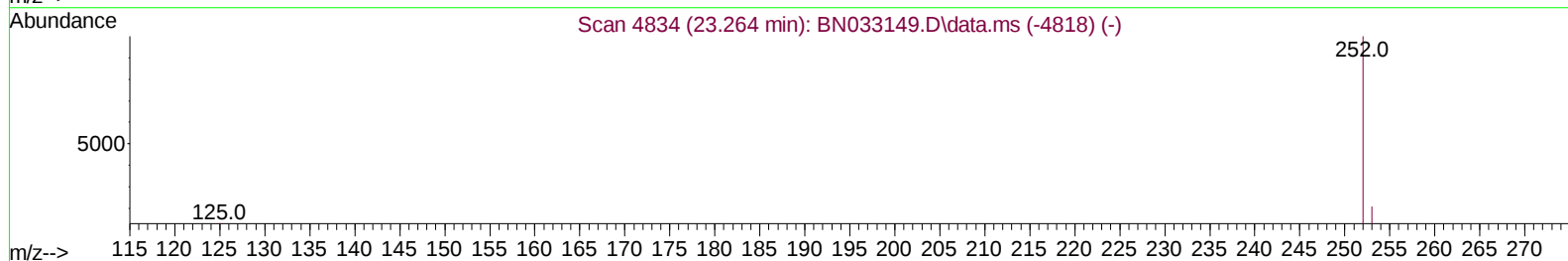
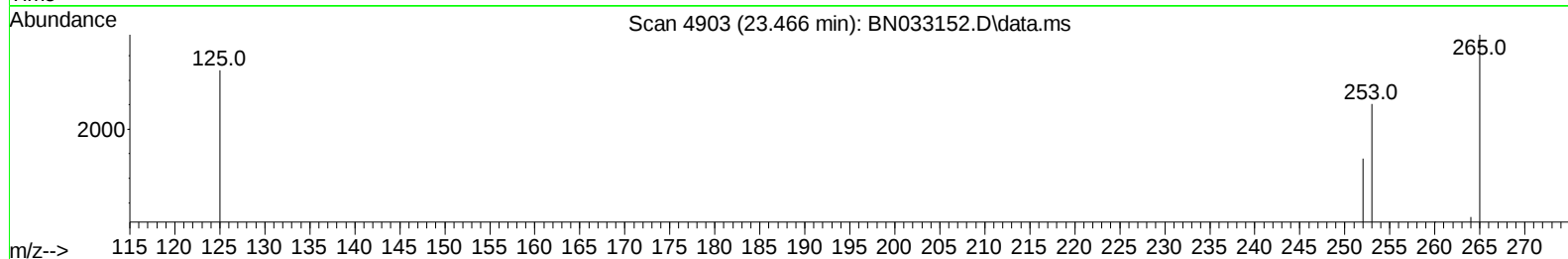
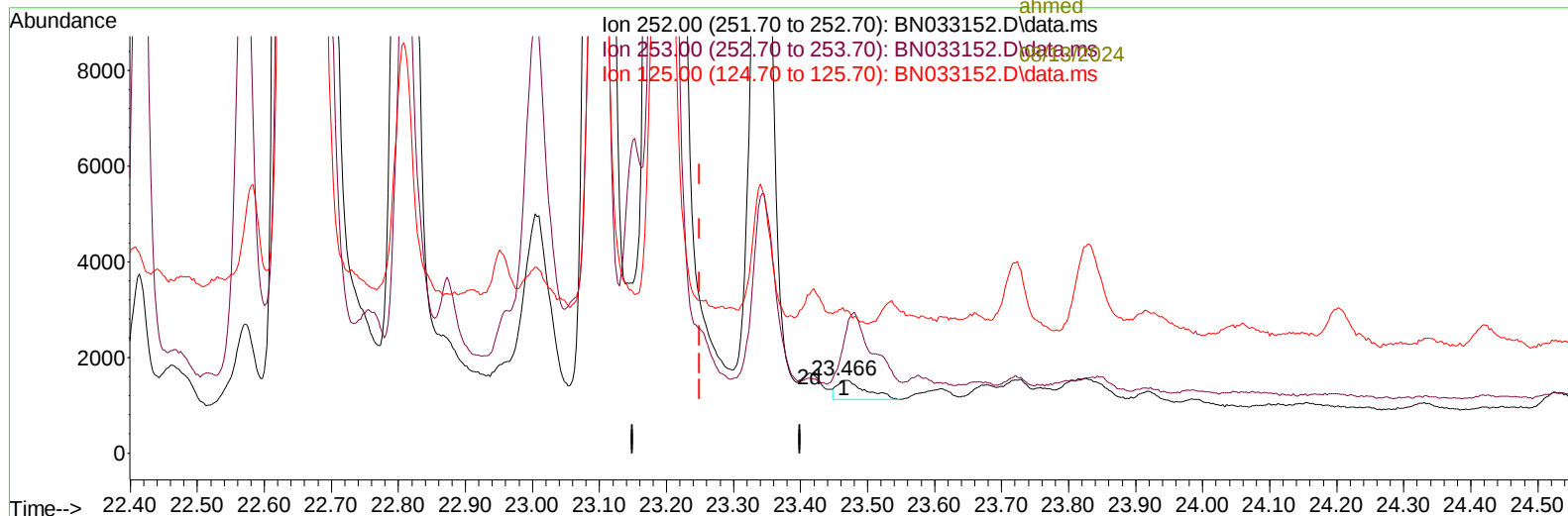
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

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Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (26) Benzo(a)pyrene (C)

23.466min (+ 0.217) 0.04 ng/u1

response 1216

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 252.00 | 100.00 | 100.00  |
| 253.00 | 34.40  | 158.95# |
| 125.00 | 33.80  | 195.20# |
| 0.00   | 0.00   | 0.00    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

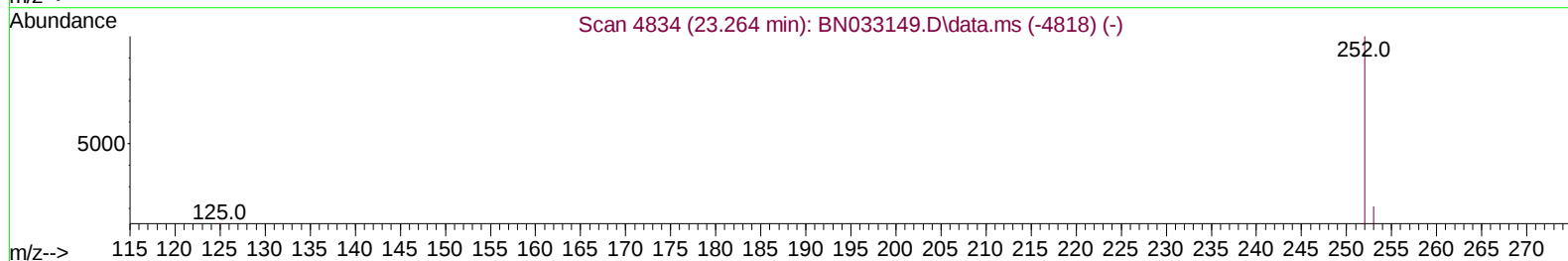
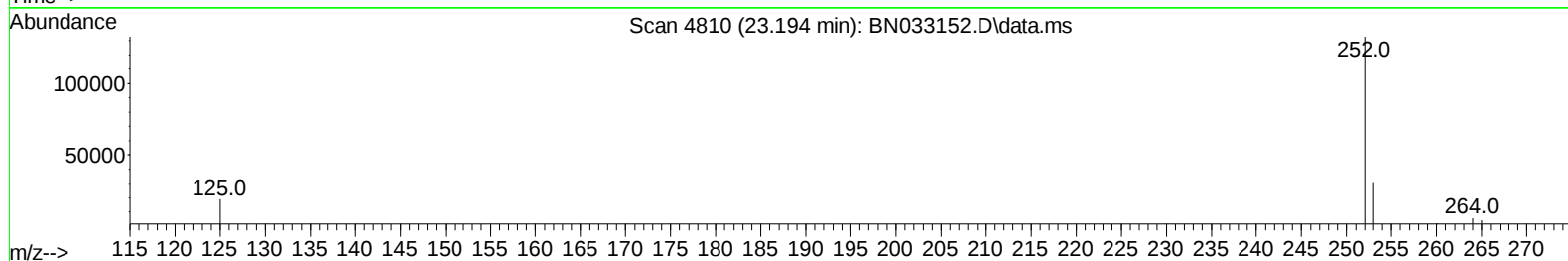
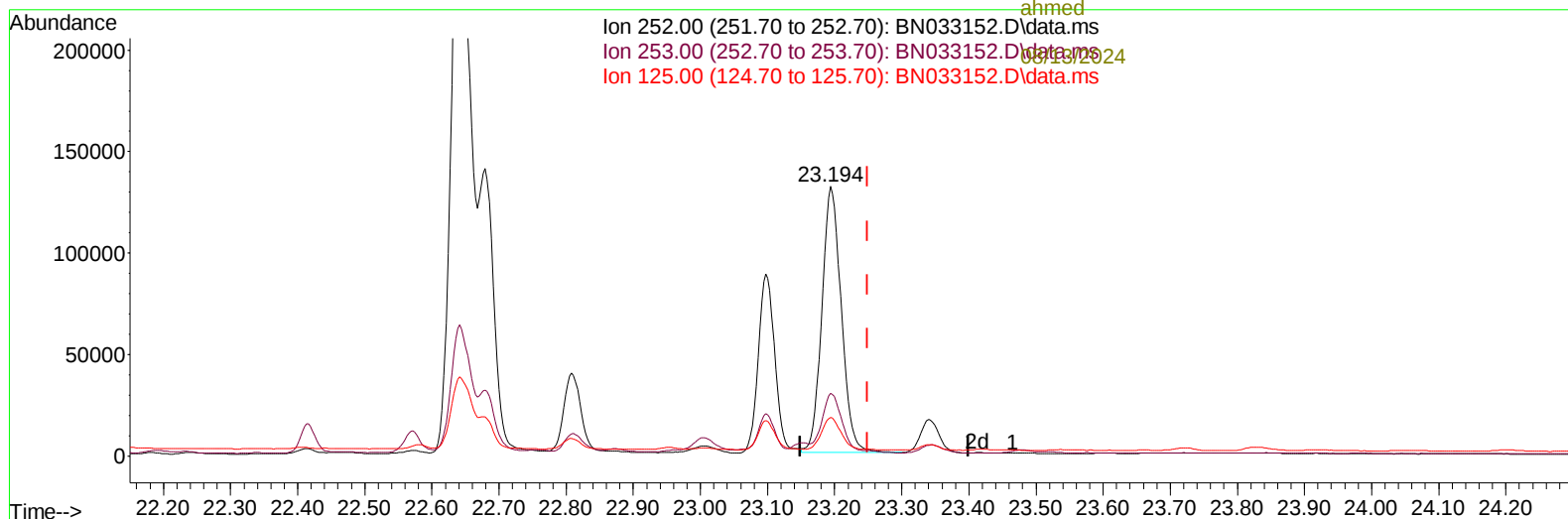
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

Ion 252.00 (251.70 to 252.70): BN033152.D\data.ms  
Ion 253.00 (252.70 to 253.70): BN033152.D\data.ms  
Ion 125.00 (124.70 to 125.70): BN033152.D\data.ms



TIC: BN033152.D\data.ms

## (26) Benzo(a)pyrene (C)

23.194min (-0.055) 7.73 ng/u1 m

response 264577

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 34.40  | 23.27# |
| 125.00 | 33.80  | 14.33# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

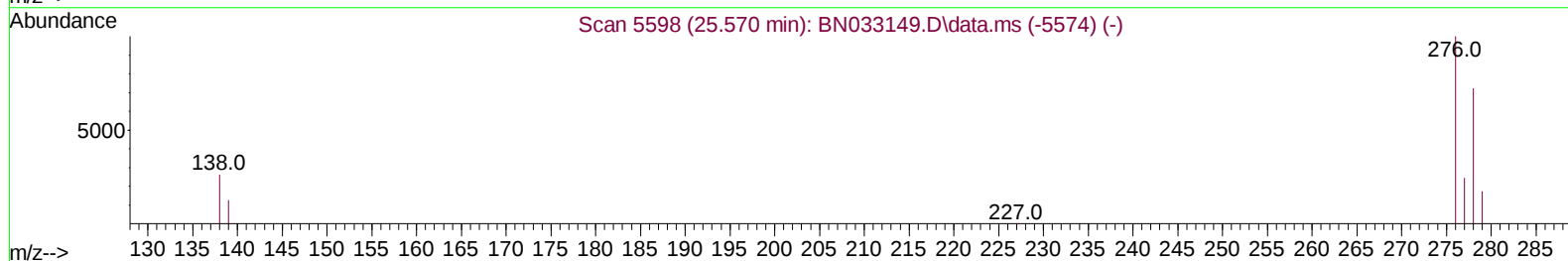
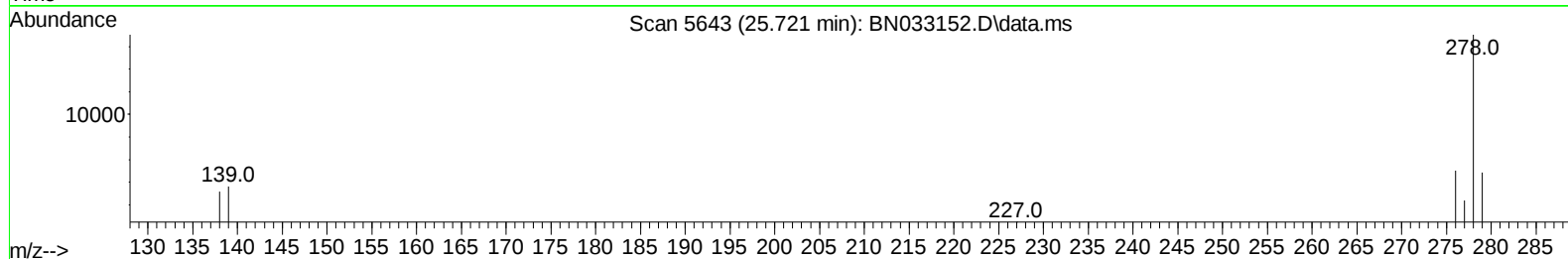
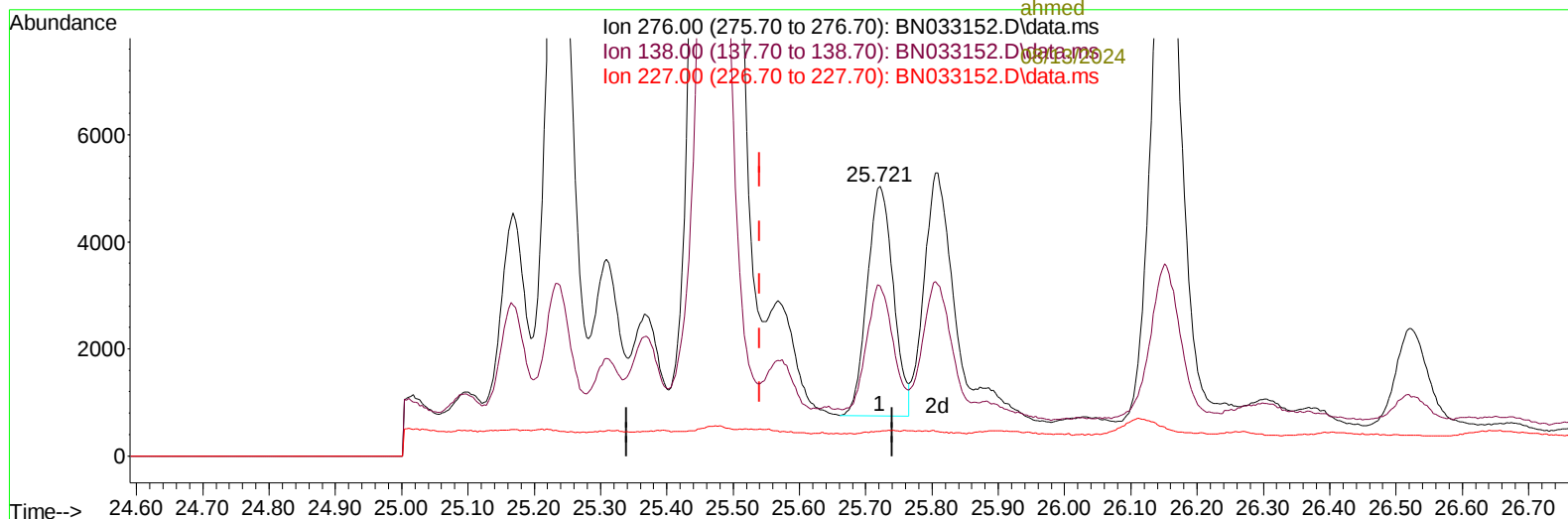
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (27) Indeno(1,2,3-cd)pyrene

25.721min (+ 0.181) 0.23 ng/u1

response 11833

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 27.30  | 54.54# |
| 227.00 | 0.20   | 2.72#  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

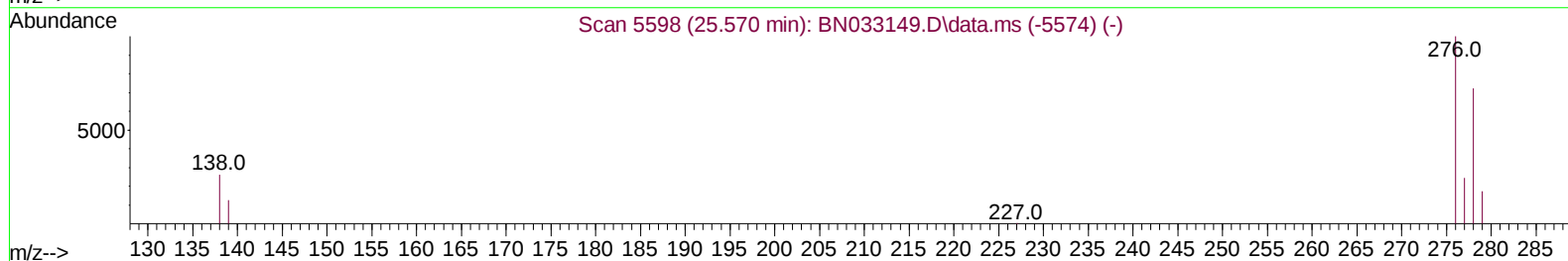
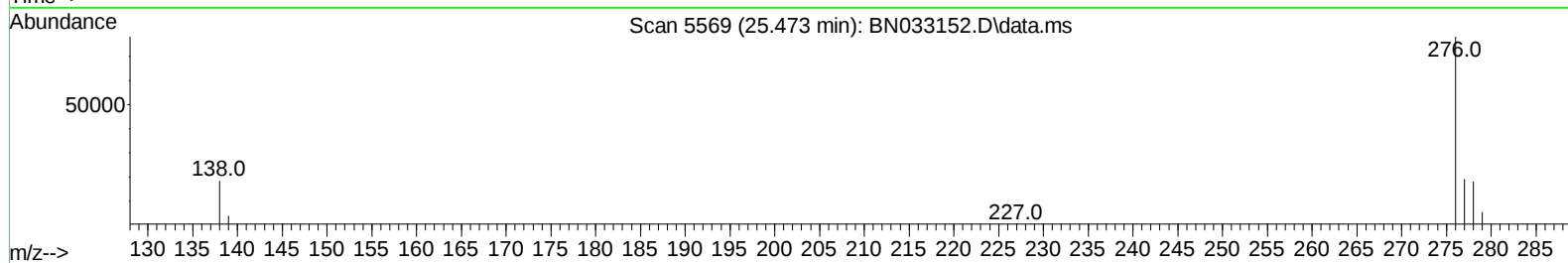
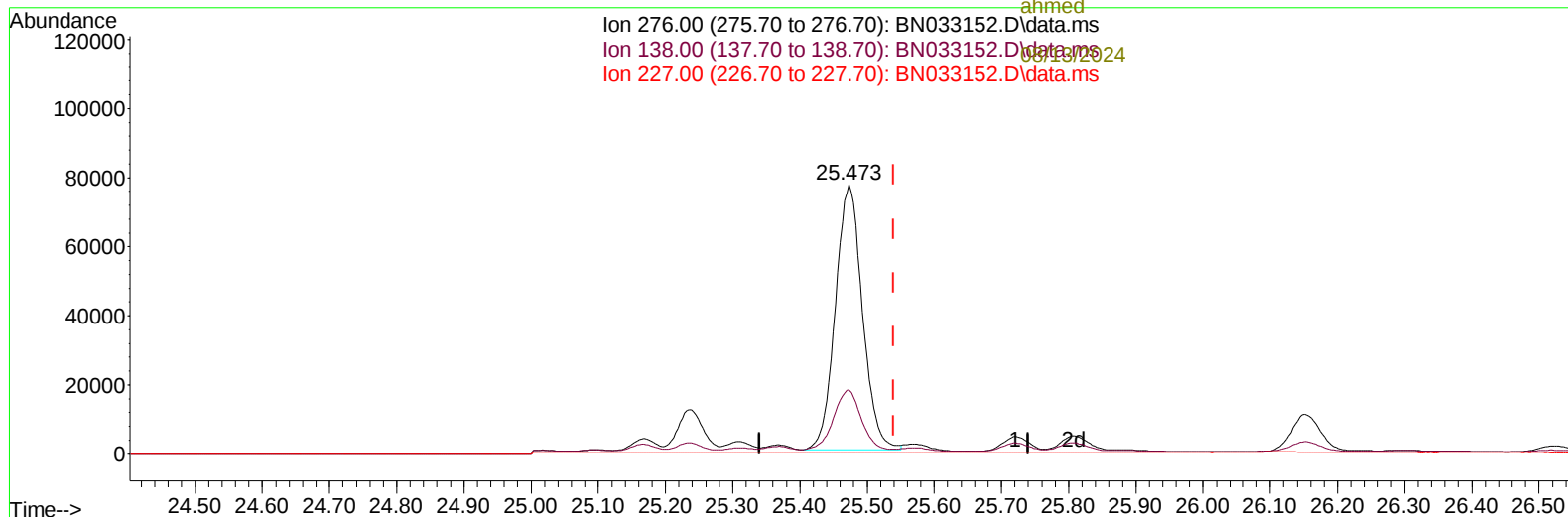
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

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Supervised By :mohammad  
ahmed

Ion 276.00 (275.70 to 276.70): BN033152.D\data.ms  
Ion 138.00 (137.70 to 138.70): BN033152.D\data.ms  
Ion 227.00 (226.70 to 227.70): BN033152.D\data.ms



TIC: BN033152.D\data.ms

**(27) Indeno(1,2,3-cd)pyrene**

25.473min (-0.067) 4.13 ng/u1 m

response 214630

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 27.30  | 3.01#  |
| 227.00 | 0.20   | 0.15#  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

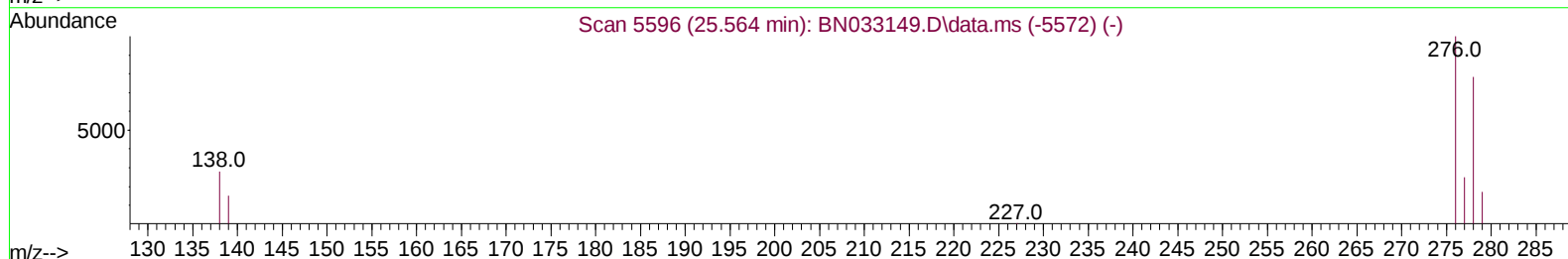
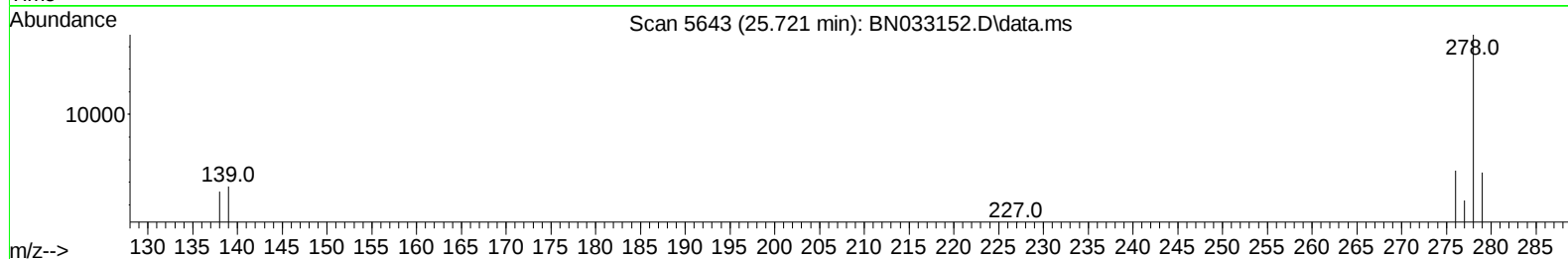
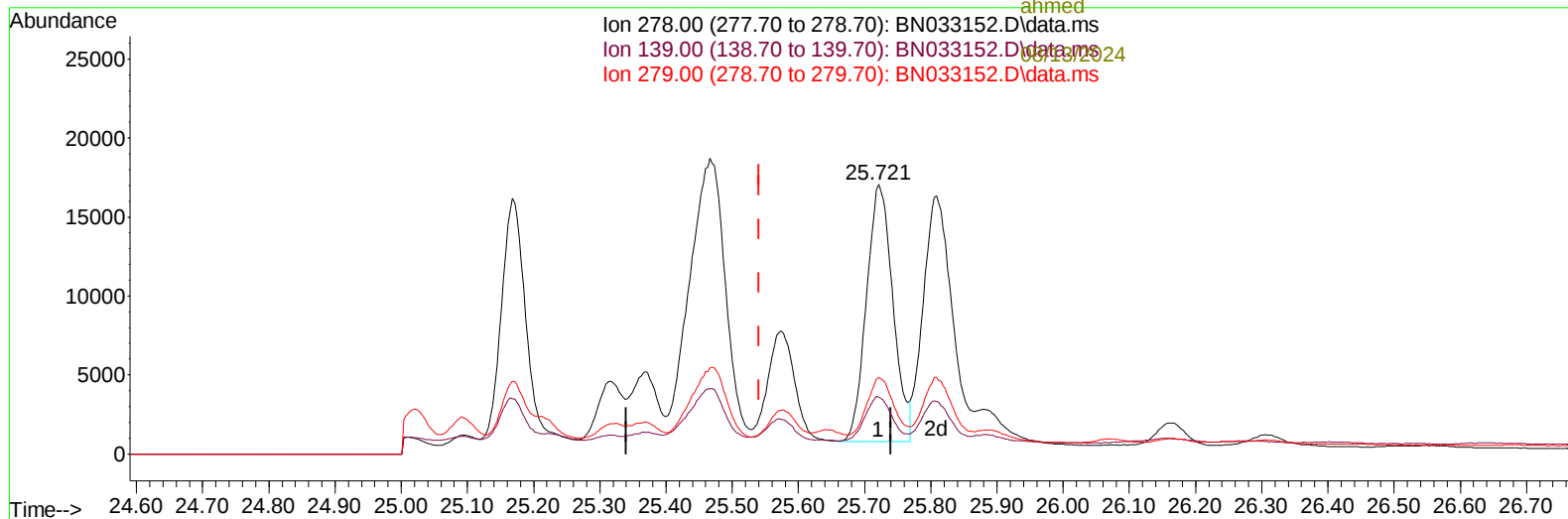
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
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Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

## (28) Dibenzo(a,h)anthracene

25.721min (+ 0.181) 1.10 ng/u1

response 45228

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 28.10  | 21.19# |
| 279.00 | 31.90  | 28.45  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

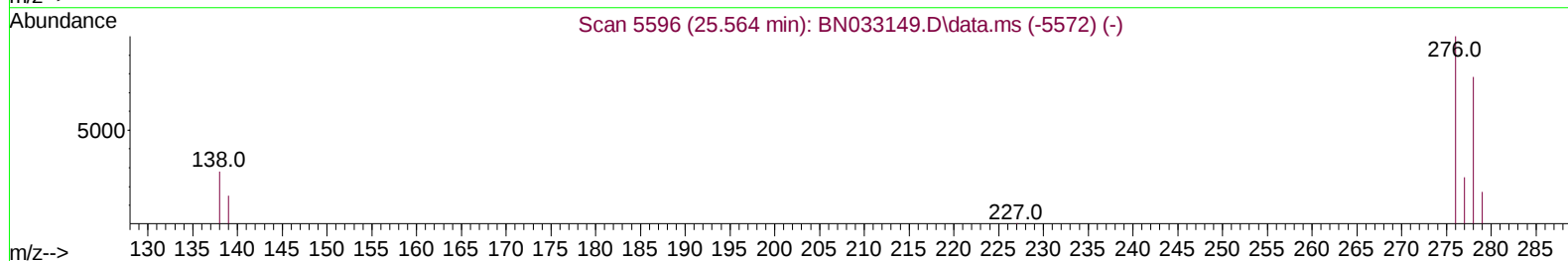
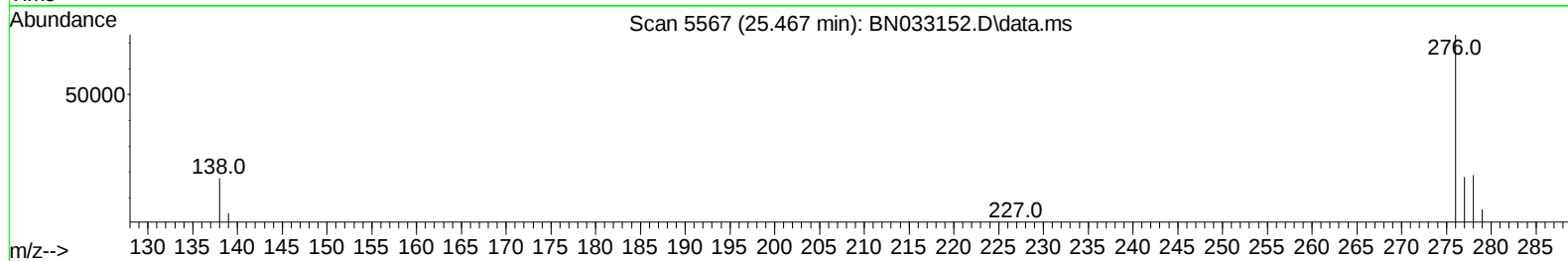
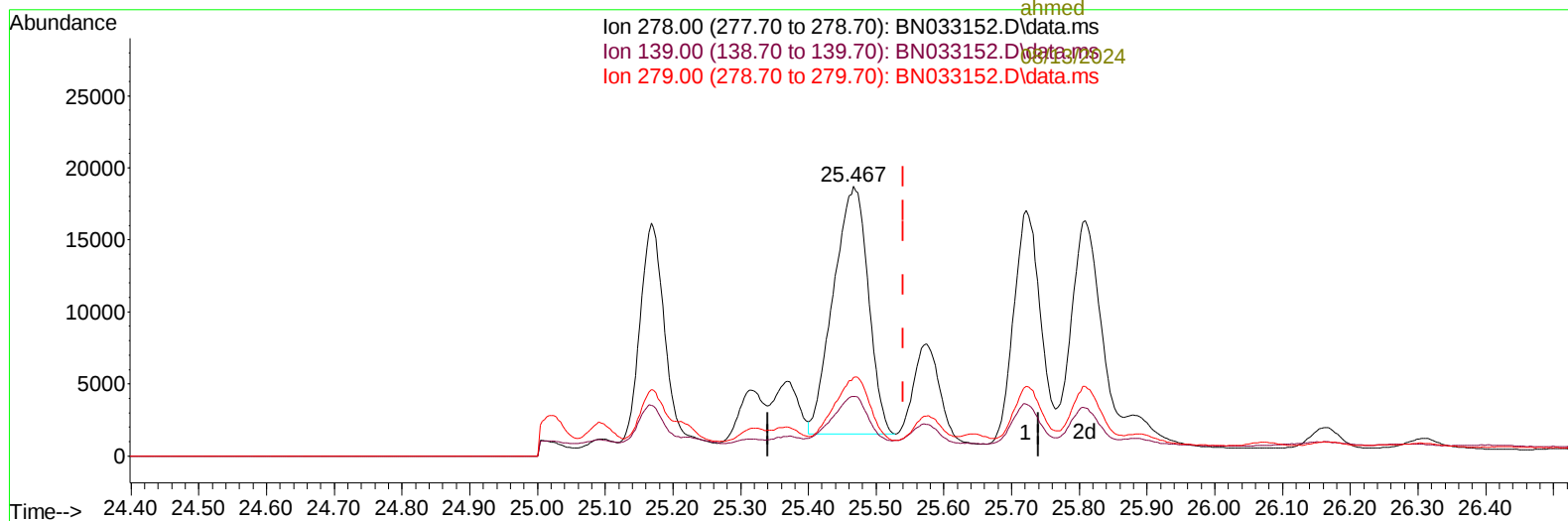
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

**(28) Dibenzo(a,h)anthracene**

25.467min (-0.074) 1.49 ng/u1 m

response 61356

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 28.10  | 22.08# |
| 279.00 | 31.90  | 29.21  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

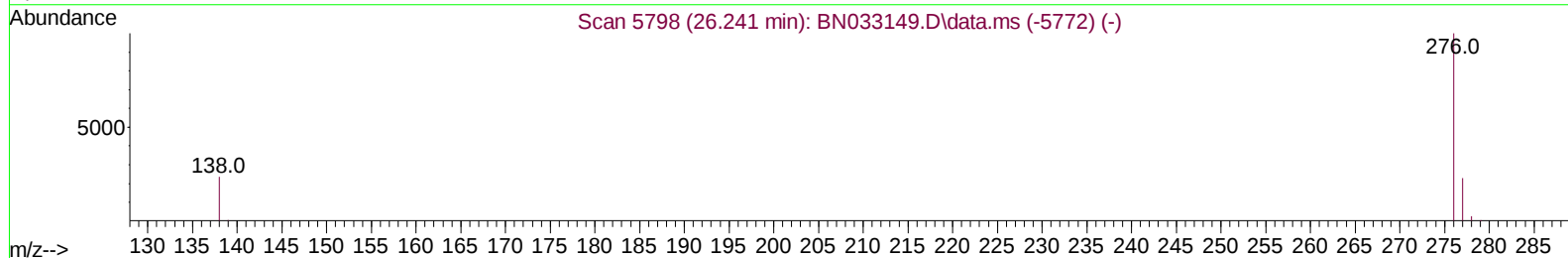
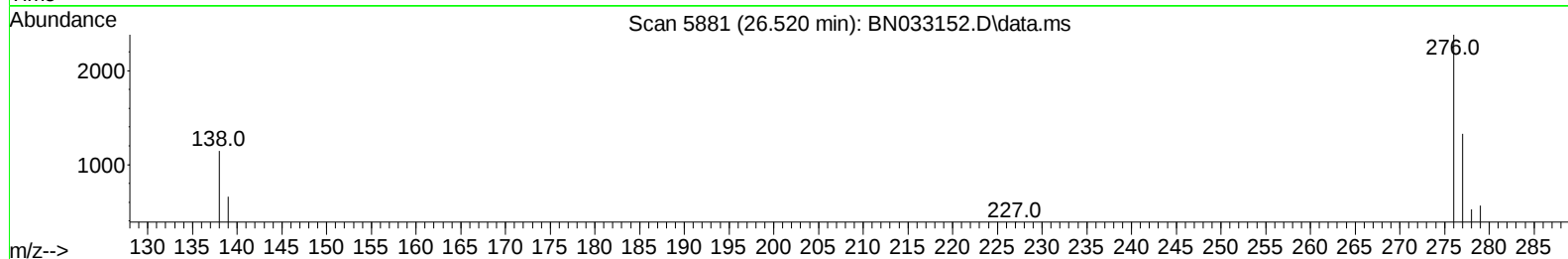
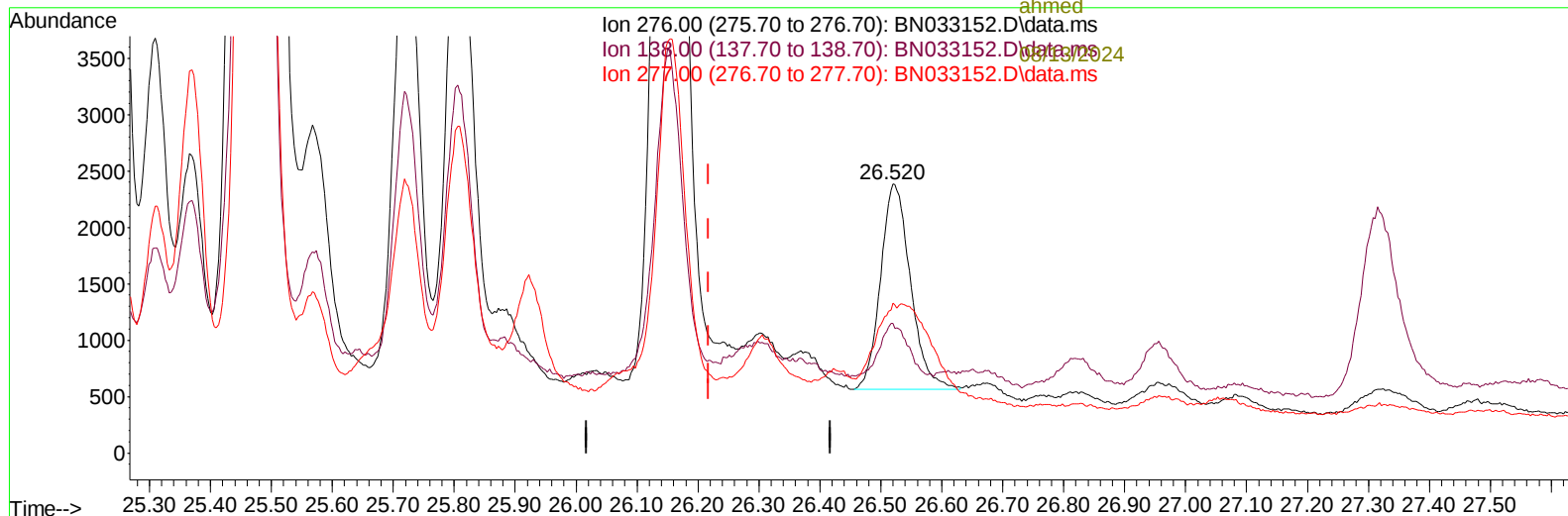
Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
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08/01/2024  
Supervised By :mohammad  
ahmed



TIC: BN033152.D\data.ms

**(29) Benzo(g,h,i)perylene**

26.520min (+ 0.302) 0.15 ng/u1

response 6196

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 30.80  | 48.17# |
| 277.00 | 28.30  | 55.73# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

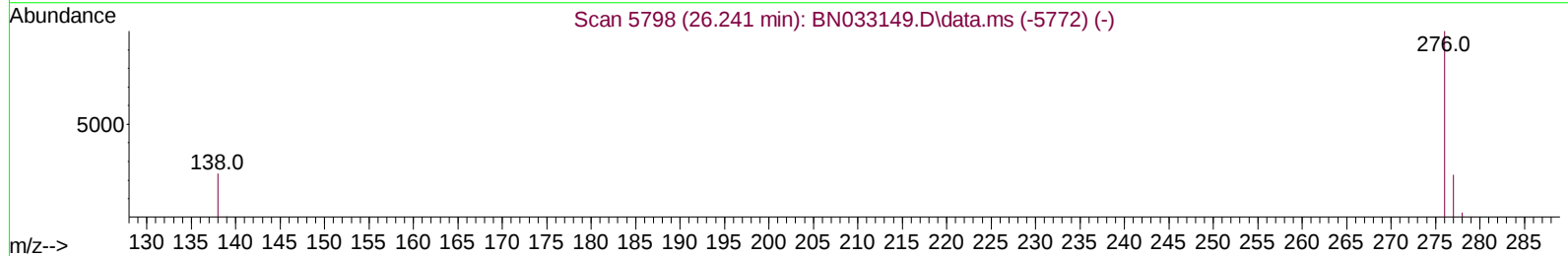
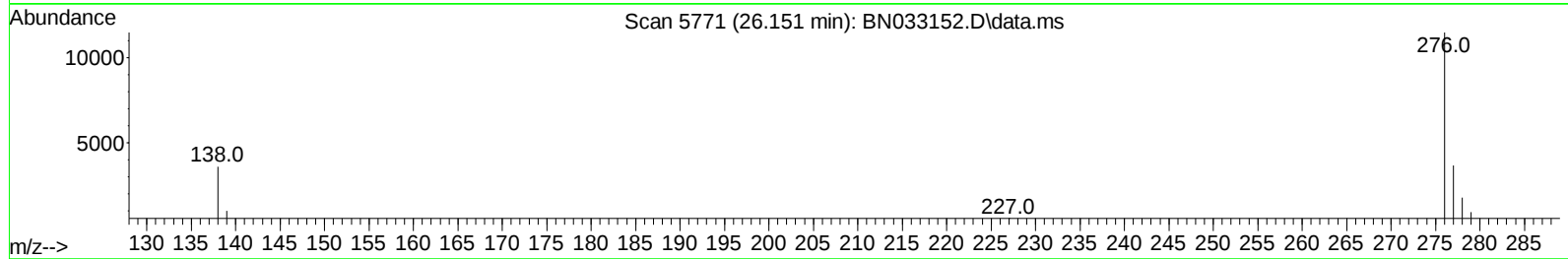
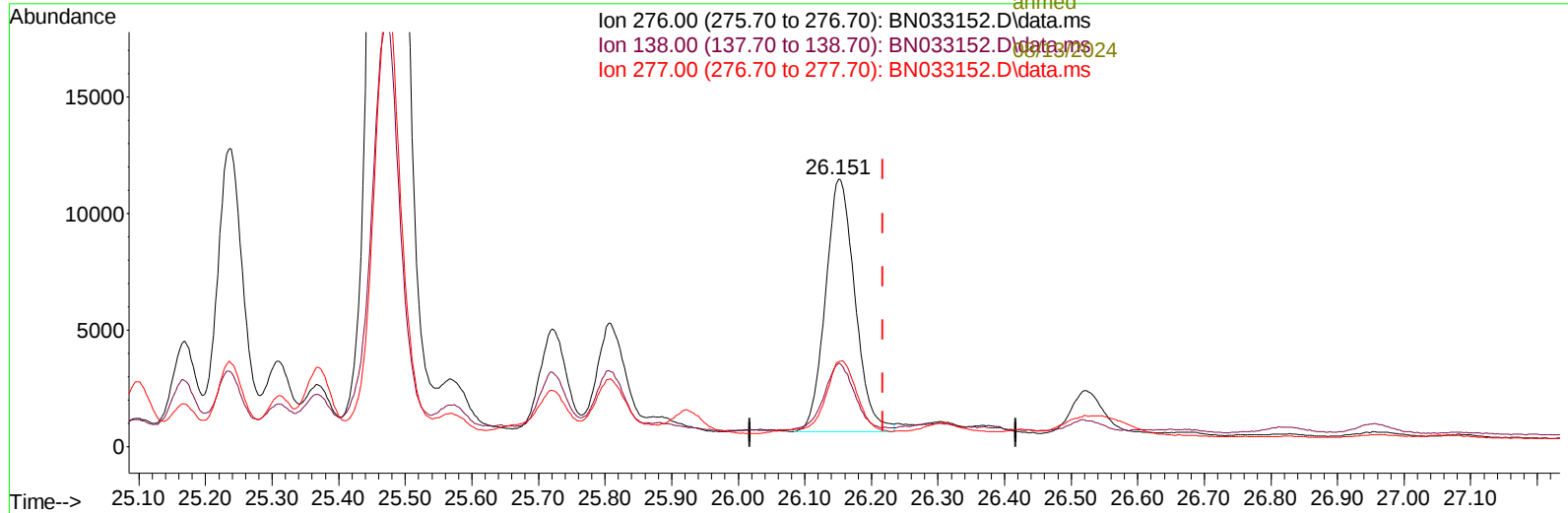
## Manual IntegrationsAPPROVED

Quant Time: Aug 01 07:31:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
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Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

Ion 276.00 (275.70 to 276.70): BN033152.D\data.ms  
Ion 138.00 (137.70 to 138.70): BN033152.D\data.ms  
Ion 277.00 (276.70 to 277.70): BN033152.D\data.ms



TIC: BN033152.D\data.ms

## (29) Benzo(g,h,i)perylene

26.151min (-0.067) 0.81 ng/u1 m

response 33316

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 30.80  | 31.33  |
| 277.00 | 28.30  | 31.82  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
 Data File : BN033152.D  
 Acq On : 01 Aug 2024 04:42  
 Operator : MA/JU  
 Sample : P3265-08  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D41

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 08/01/2024  
 Supervised By :mohammad ahmed 08/13/2024

Quant Time: Aug 01 07:31:56 2024  
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08/01/2024  
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 ahmed

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----08/13/2024             |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.495  | 152  | 3341     | 0.400  | ng/ul | -0.05    |
| 4) Naphthalene-d8           | 10.245 | 136  | 11343    | 0.400  | ng/ul | #-0.07   |
| 9) Acenaphthene-d10         | 14.129 | 164  | 6726     | 0.400  | ng/ul | -0.03    |
| 13) Phenanthrene-d10        | 16.890 | 188  | 15771m   | 0.400  | ng/ul | -0.05    |
| 17) Chrysene-d12            | 21.113 | 240  | 13065m   | 0.400  | ng/ul | -0.04    |
| 23) Perylene-d12            | 23.293 | 264  | 12443m   | 0.400  | ng/ul | -0.05    |
| System Monitoring Compounds |        |      |          |        |       |          |
| 3) 1,4-Dioxane-d8           | 3.052  | 96   | 9948     | 2.354  | ng/ul | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.873 | 152  | 2592     | 0.140  | ng/ul | -0.05    |
| 18) Fluoranthene-d10        | 18.935 | 212  | 8129m    | 0.220  | ng/ul | -0.04    |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 5) Naphthalene              | 10.295 | 128  | 11937    | 0.410  | ng/ul | 95       |
| 7) 2-Methylnaphthalene      | 11.950 | 142  | 4206     | 0.213  | ng/ul | 96       |
| 8) 1-Methylnaphthalene      | 12.165 | 142  | 3664     | 0.172  | ng/ul | 99       |
| 10) Acenaphthylene          | 13.847 | 152  | 19339    | 0.703  | ng/ul | 100      |
| 11) Acenaphthene            | 14.194 | 153  | 22604    | 1.092  | ng/ul | 99       |
| 12) Fluorene                | 15.193 | 166  | 27533    | 1.141  | ng/ul | 99       |
| 15) Phenanthrene            | 16.928 | 178  | 563497m  | 13.321 | ng/ul |          |
| 16) Anthracene              | 17.025 | 178  | 114927m  | 3.022  | ng/ul |          |
| 19) Fluoranthene            | 18.963 | 202  | 1065243m | 24.763 | ng/ul |          |
| 20) Pyrene                  | 19.330 | 202  | 821737m  | 17.813 | ng/ul |          |
| 21) Benzo(a)anthracene      | 21.099 | 228  | 450965m  | 10.119 | ng/ul |          |
| 22) Chrysene                | 21.151 | 228  | 469667m  | 9.031  | ng/ul |          |
| 24) Benzo(b)fluoranthene    | 22.641 | 252  | 580503m  | 15.970 | ng/ul |          |
| 25) Benzo(k)fluoranthene    | 22.679 | 252  | 204001m  | 4.683  | ng/ul |          |
| 26) Benzo(a)pyrene          | 23.194 | 252  | 264577m  | 7.734  | ng/ul |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.473 | 276  | 214630m  | 4.126  | ng/ul |          |
| 28) Dibenzo(a,h)anthracene  | 25.467 | 278  | 61356m   | 1.488  | ng/ul |          |
| 29) Benzo(g,h,i)perylene    | 26.151 | 276  | 33316m   | 0.806  | ng/ul |          |

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

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Data File : BN033152.D  
Acq On : 01 Aug 2024 04:42  
Operator : MA/JU  
Sample : P3265-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4D41

## Manual IntegrationsAPPROVED

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Reviewed By :Jagrut Upadhyay 08/01/2024  
Supervised By :mohammad ahmed 08/13/2024

08/01/2024  
Supervised By :mohammad  
ahmed

08/13/2024

