

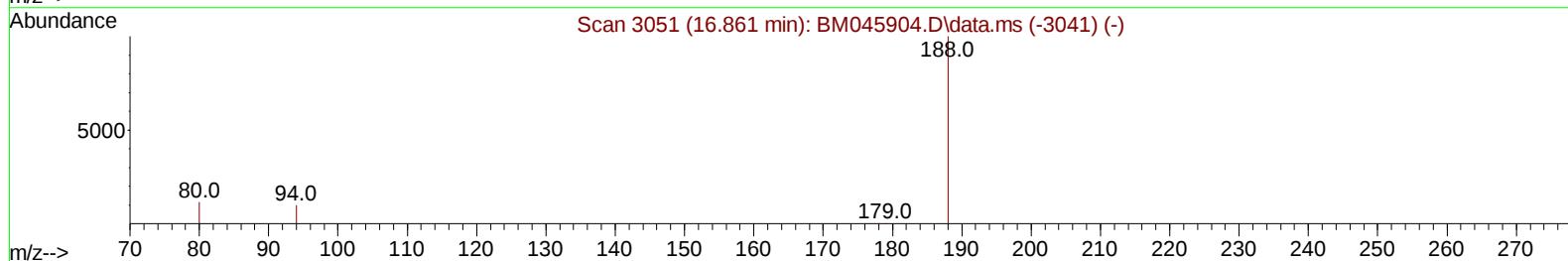
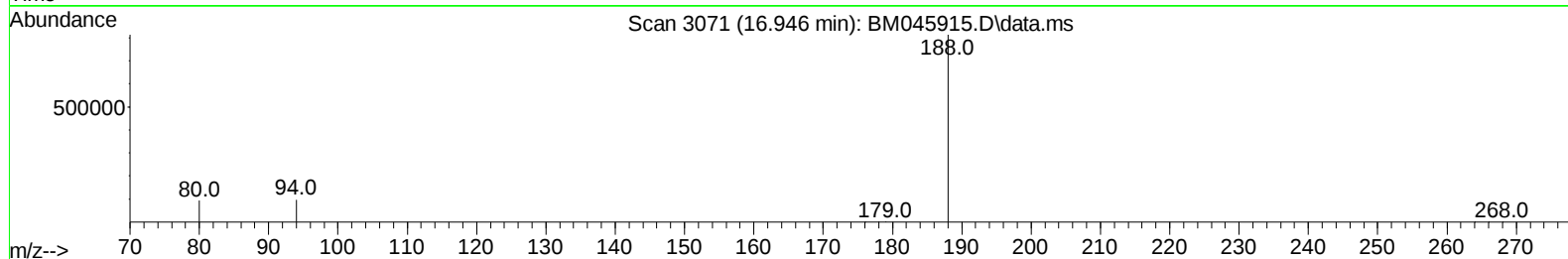
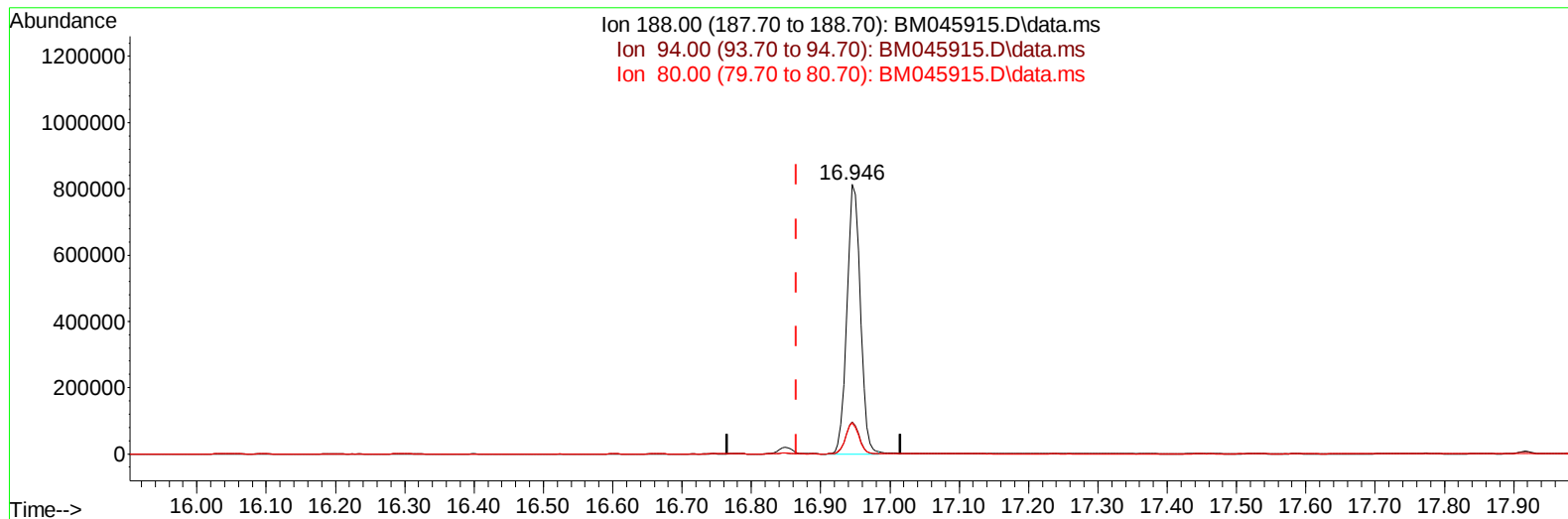
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(13) Phenanthrene-d10 (I)

16.946min (+ 0.080) 0.40 ng/u1

response 1095233

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 10.50  | 12.01  |
| 80.00  | 11.70  | 11.42  |
| 0.00   | 0.00   | 0.00   |

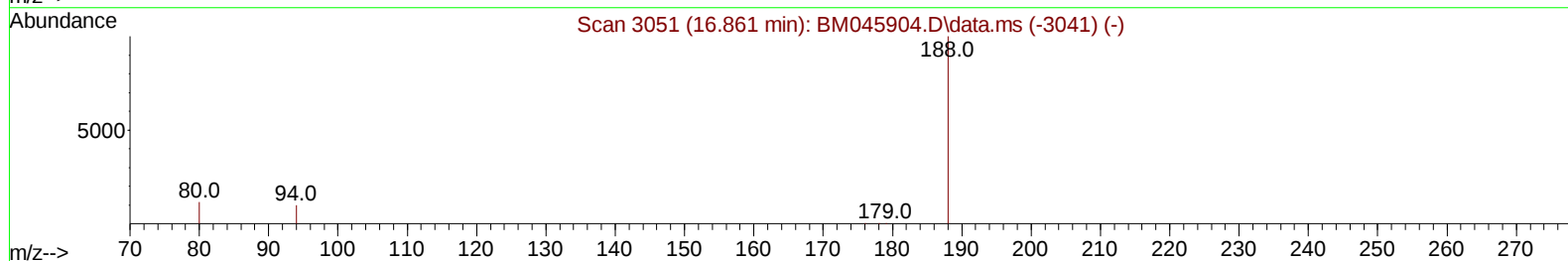
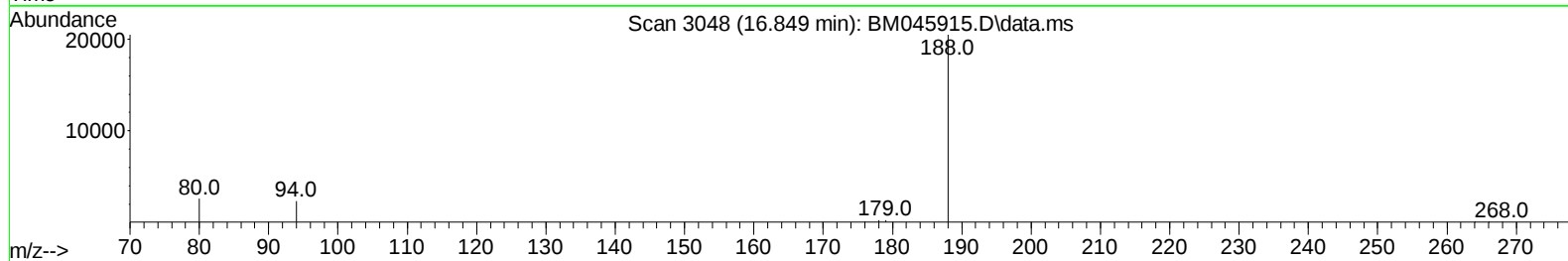
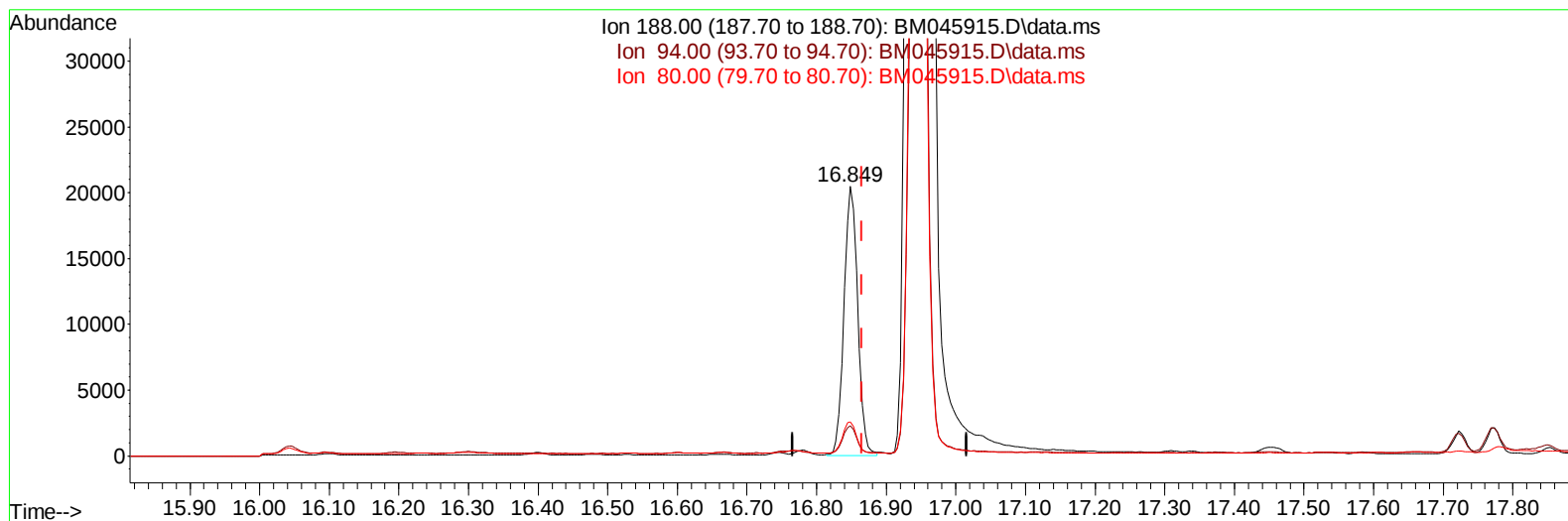
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(13) Phenanthrene-d10 (I)

16.849min (-0.017) 0.40 ng/ul m

response 28038

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 10.50  | 11.32  |
| 80.00  | 11.70  | 12.63  |
| 0.00   | 0.00   | 0.00   |

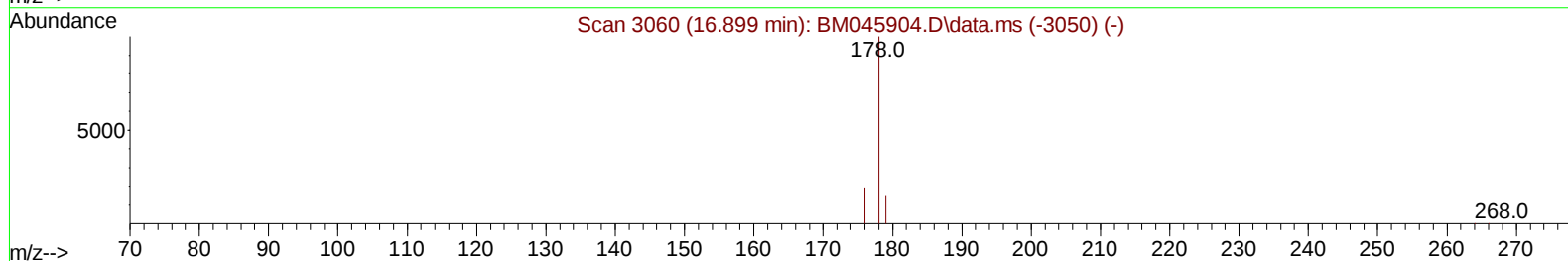
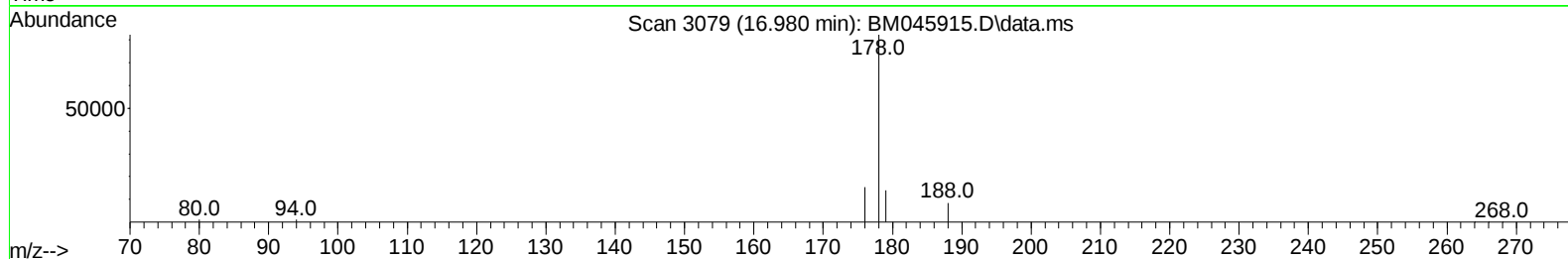
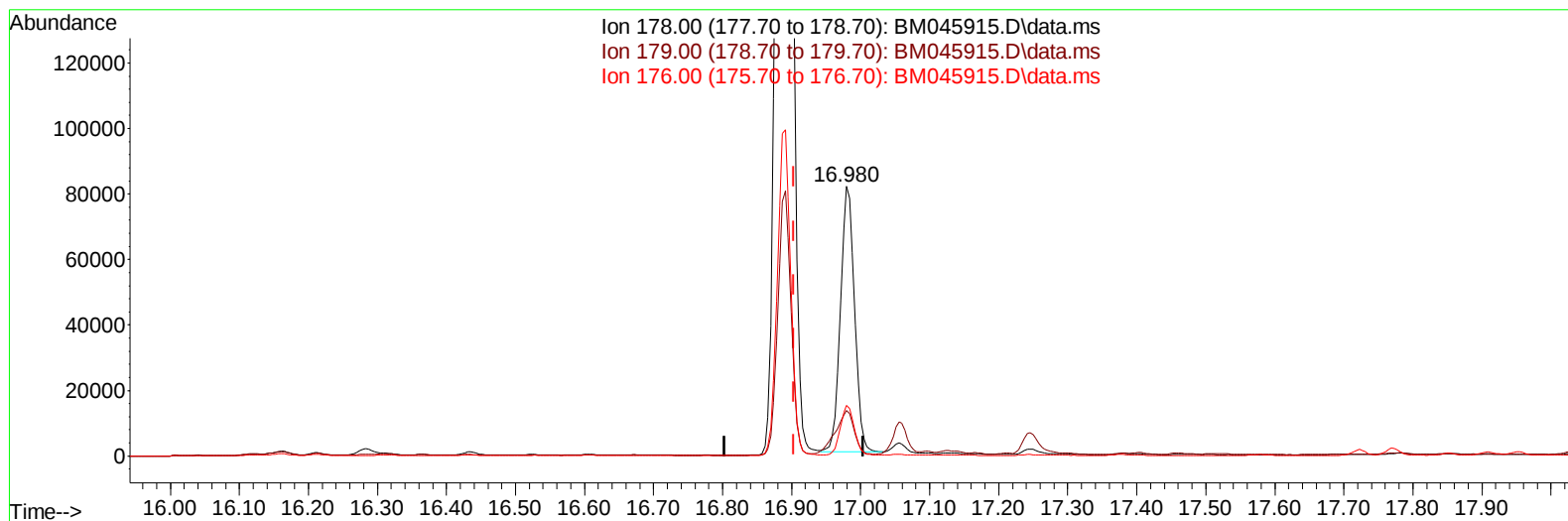
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(15) Phenanthrene

16.980min (+ 0.076) 1.45 ng/u1

response 114533

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.90  | 16.86  |
| 176.00 | 19.50  | 18.78  |
| 0.00   | 0.00   | 0.00   |

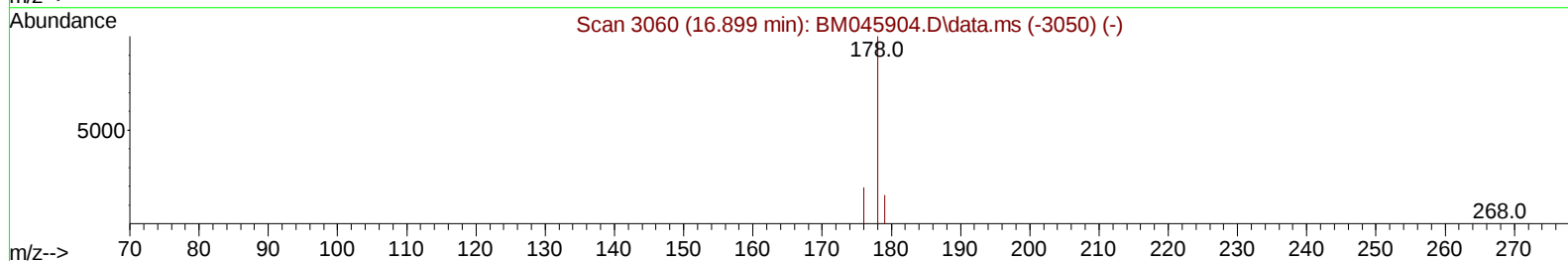
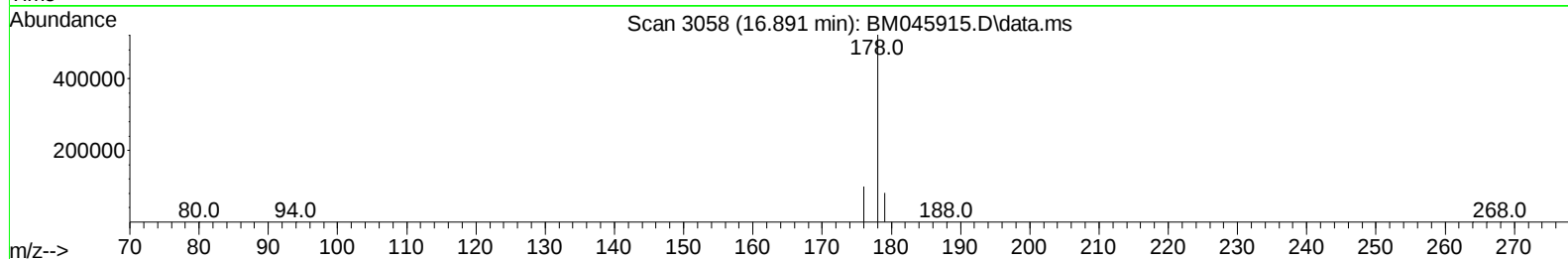
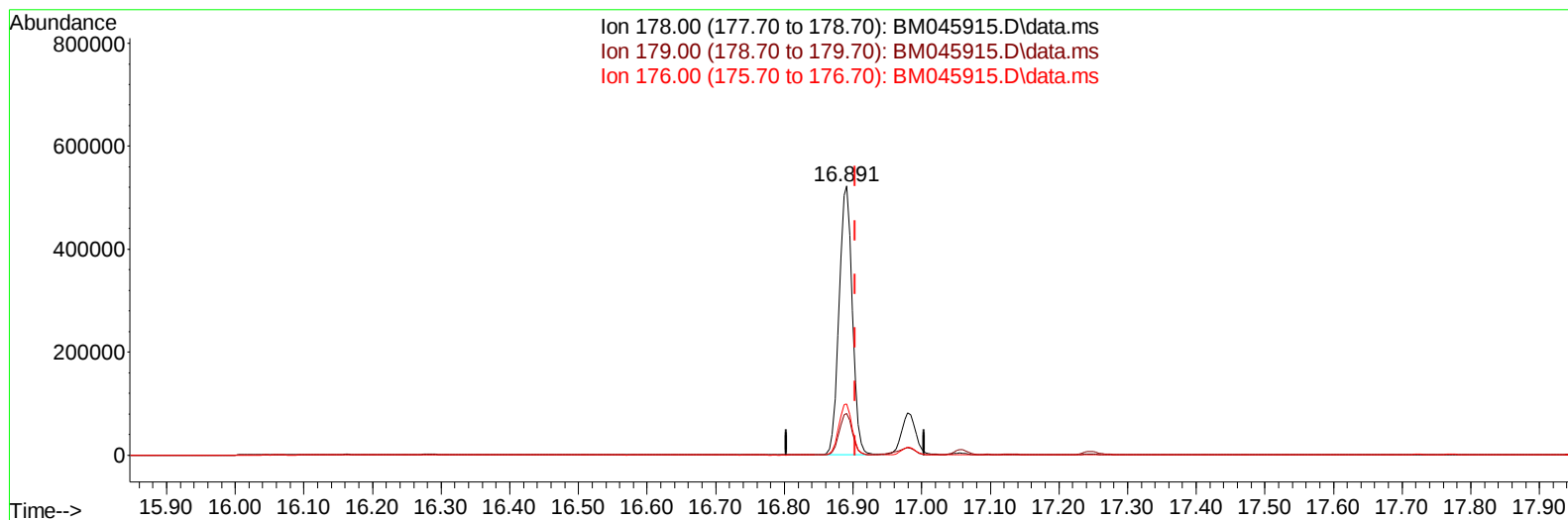
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(15) Phenanthrene

16.891min (-0.013) 8.88 ng/u1 m

response 699000

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.90  | 15.50  |
| 176.00 | 19.50  | 19.07  |
| 0.00   | 0.00   | 0.00   |

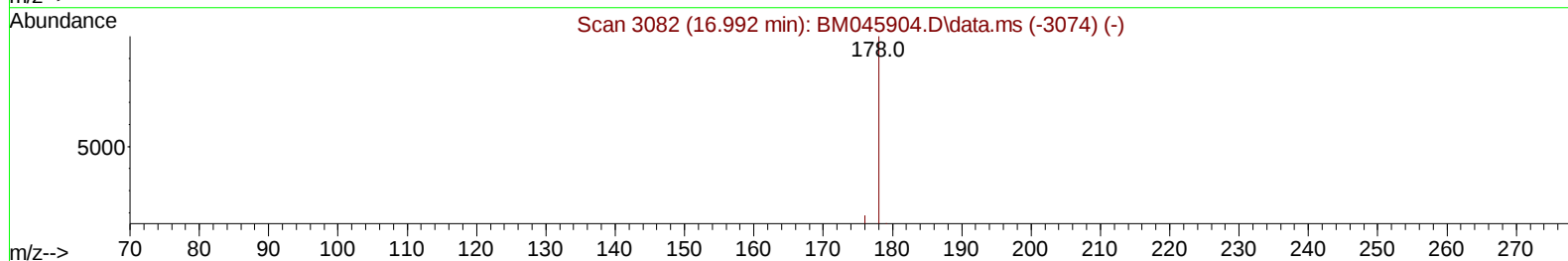
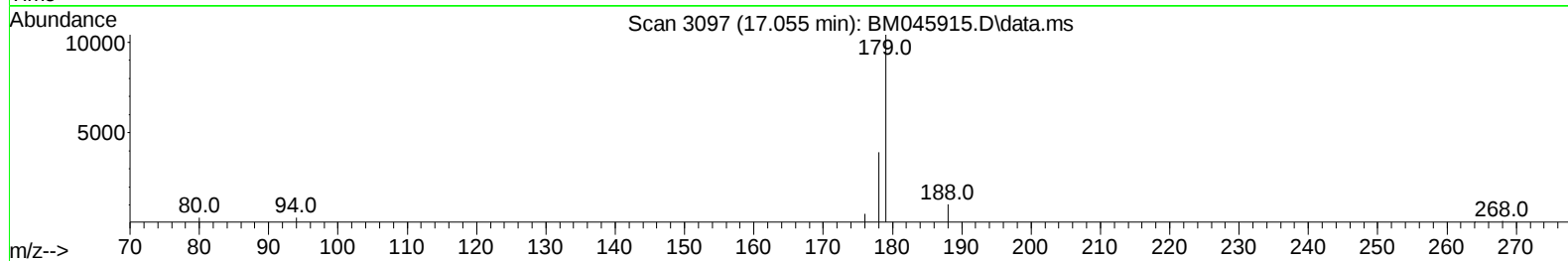
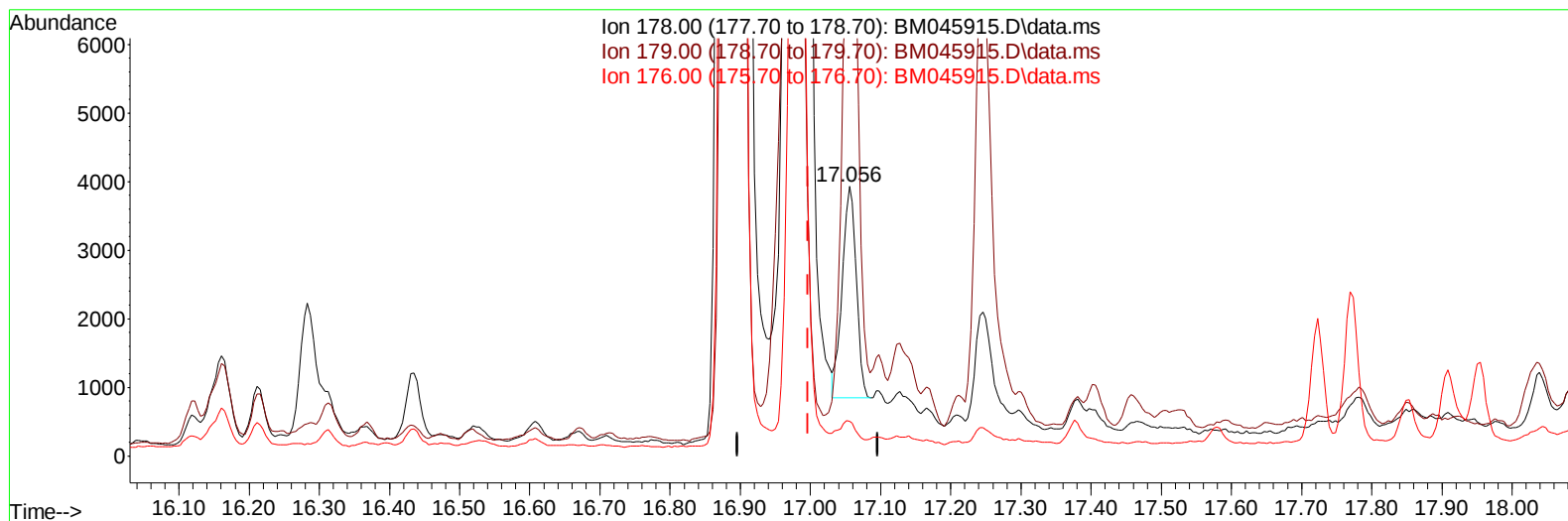
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045915.D  
 Acq On : 08 Jun 2024 14:27  
 Operator : MA/JU  
 Sample : P2640-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 07 22:59:16 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
 Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(16) Anthracene

17.055min (+ 0.059) 0.06 ng/u1

response 4300

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 178.00 | 100.00 | 100.00  |
| 179.00 | 16.40  | 265.03# |
| 176.00 | 19.40  | 12.85#  |
| 0.00   | 0.00   | 0.00    |

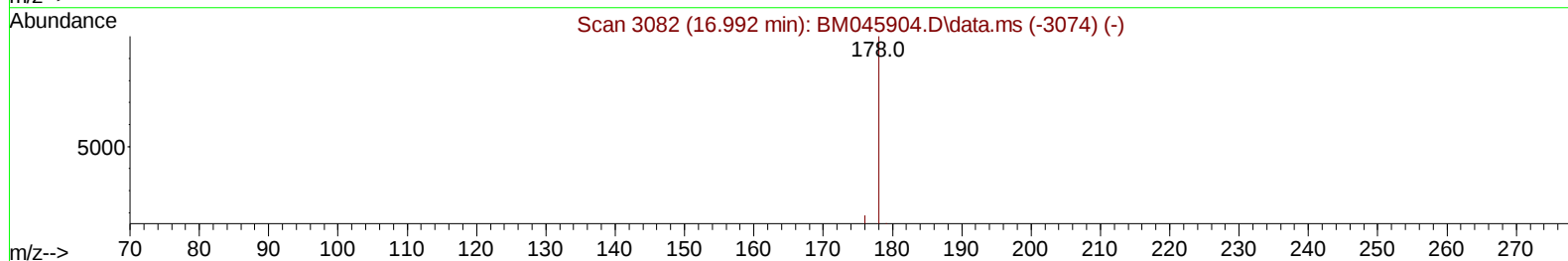
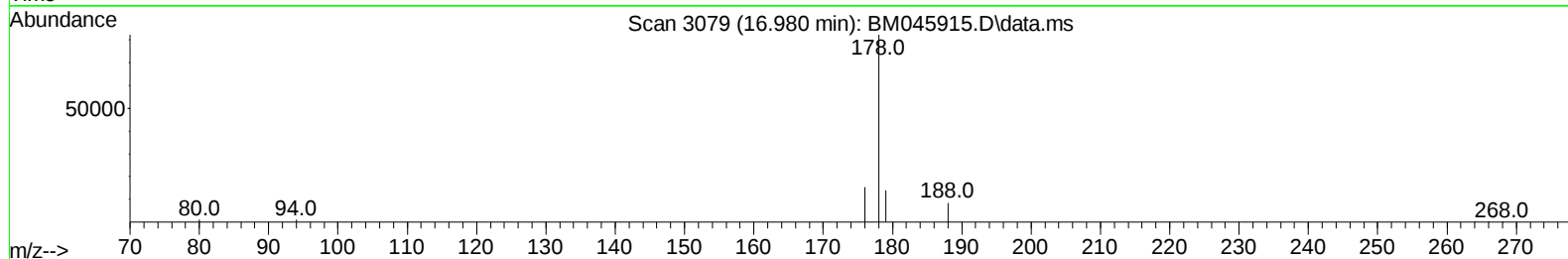
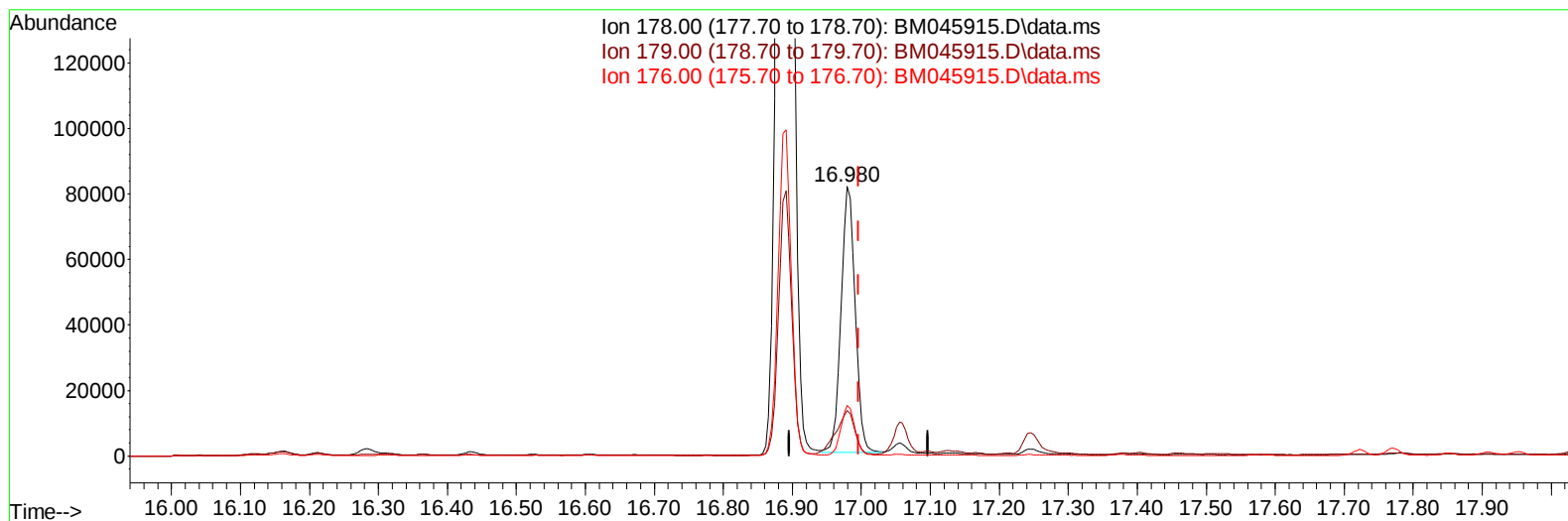
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(16) Anthracene

16.980min (-0.017) 1.71 ng/ul m

response 114948

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 16.40  | 16.86  |
| 176.00 | 19.40  | 18.78  |
| 0.00   | 0.00   | 0.00   |

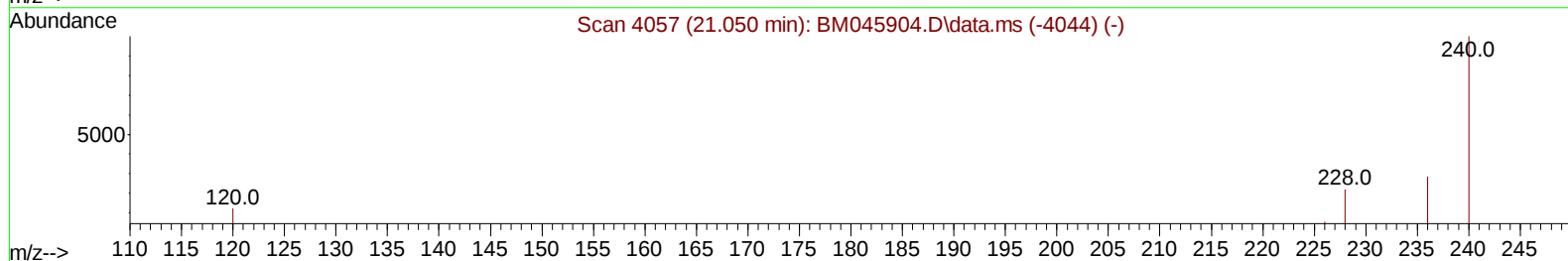
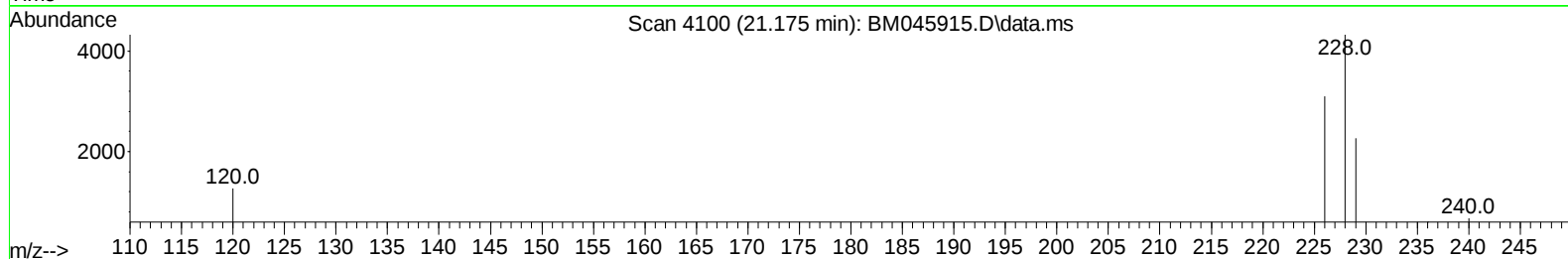
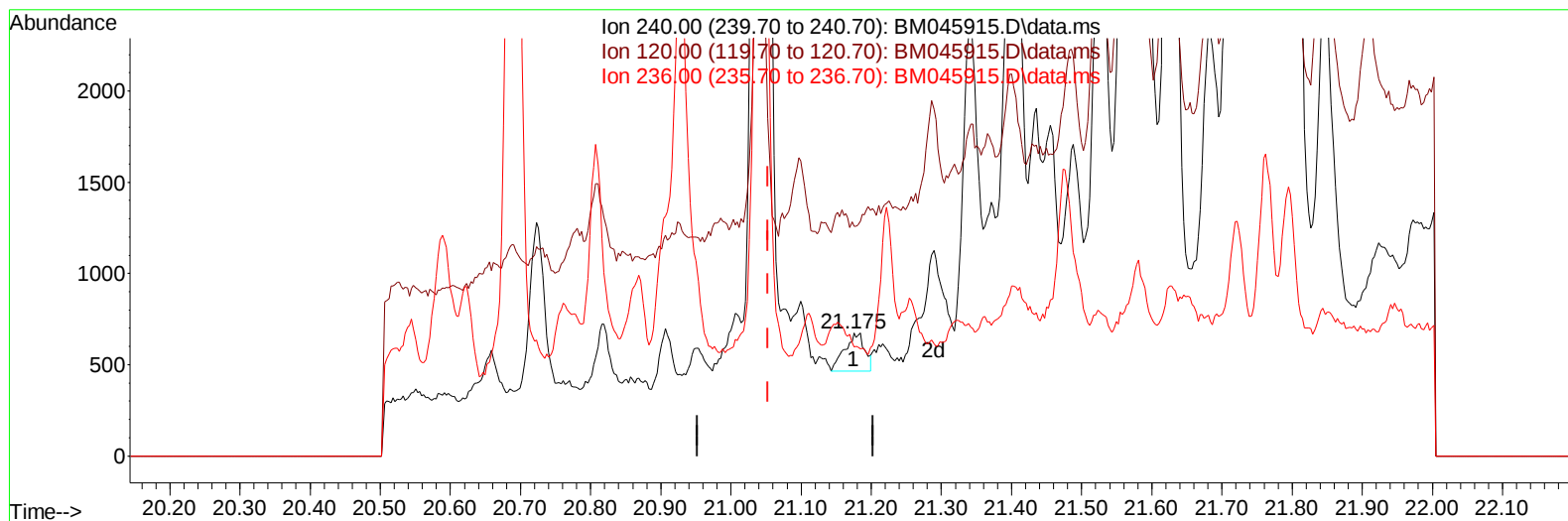
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
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Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(17) Chrysene-d12

21.175min (+ 0.123) 0.40 ng/u1

response 407

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 240.00 | 100.00 | 100.00  |
| 120.00 | 16.10  | 187.22# |
| 236.00 | 29.50  | 88.56#  |
| 0.00   | 0.00   | 0.00    |

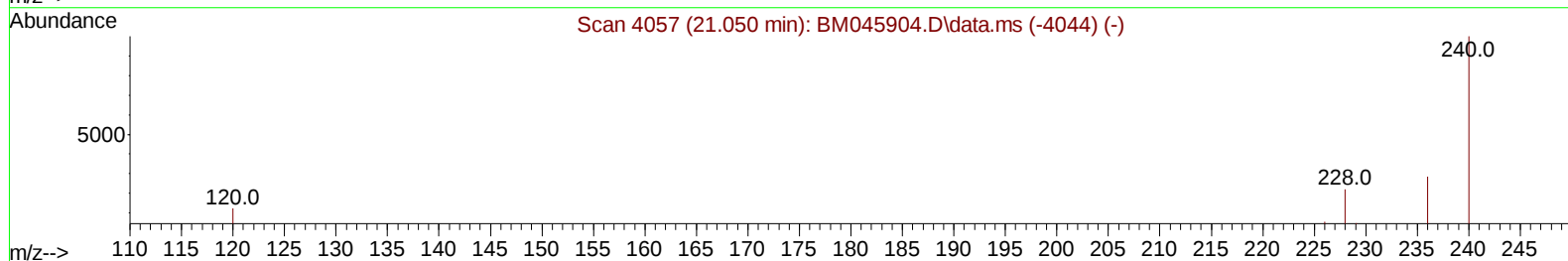
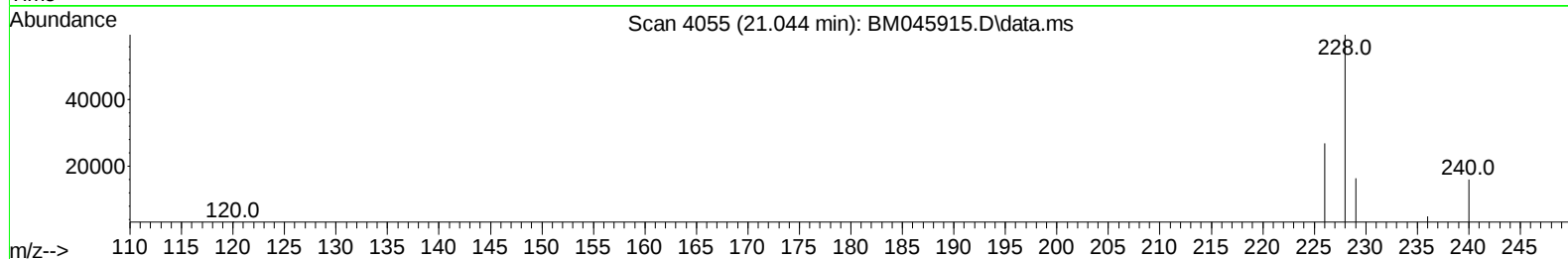
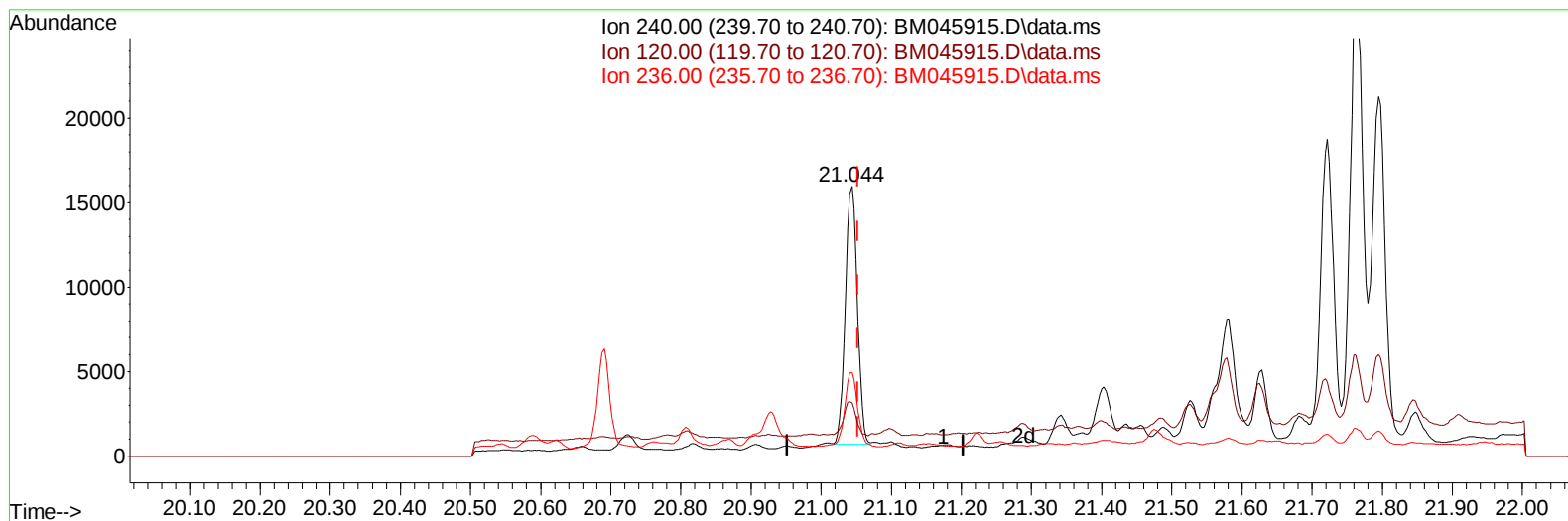
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(17) Chrysene-d12

21.044min (-0.009) 0.40 ng/ul m

response 18135

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 240.00 | 100.00 | 100.00 |
| 120.00 | 16.10  | 19.79# |
| 236.00 | 29.50  | 31.11  |
| 0.00   | 0.00   | 0.00   |

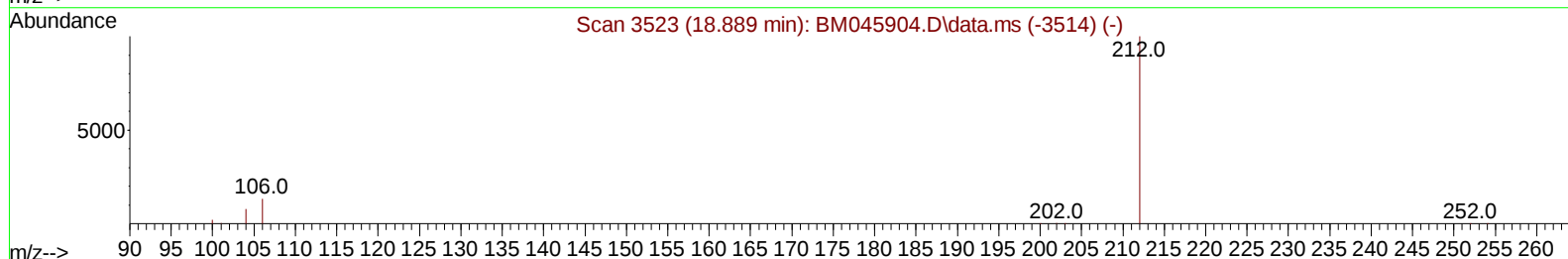
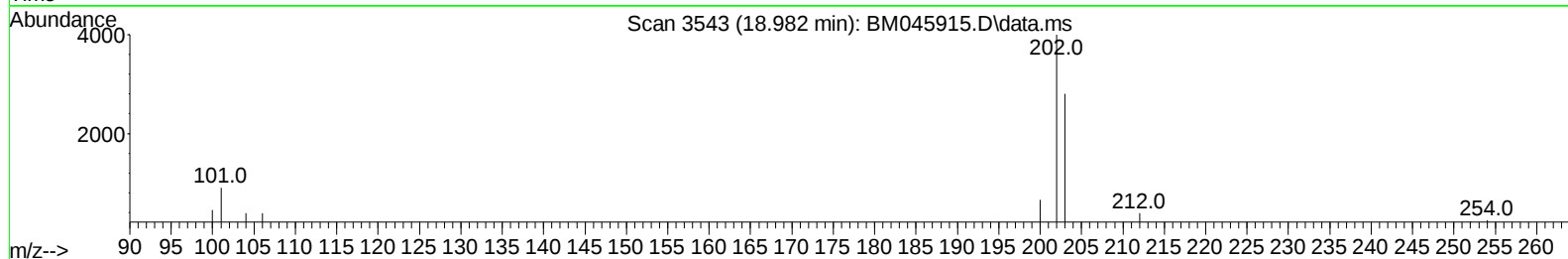
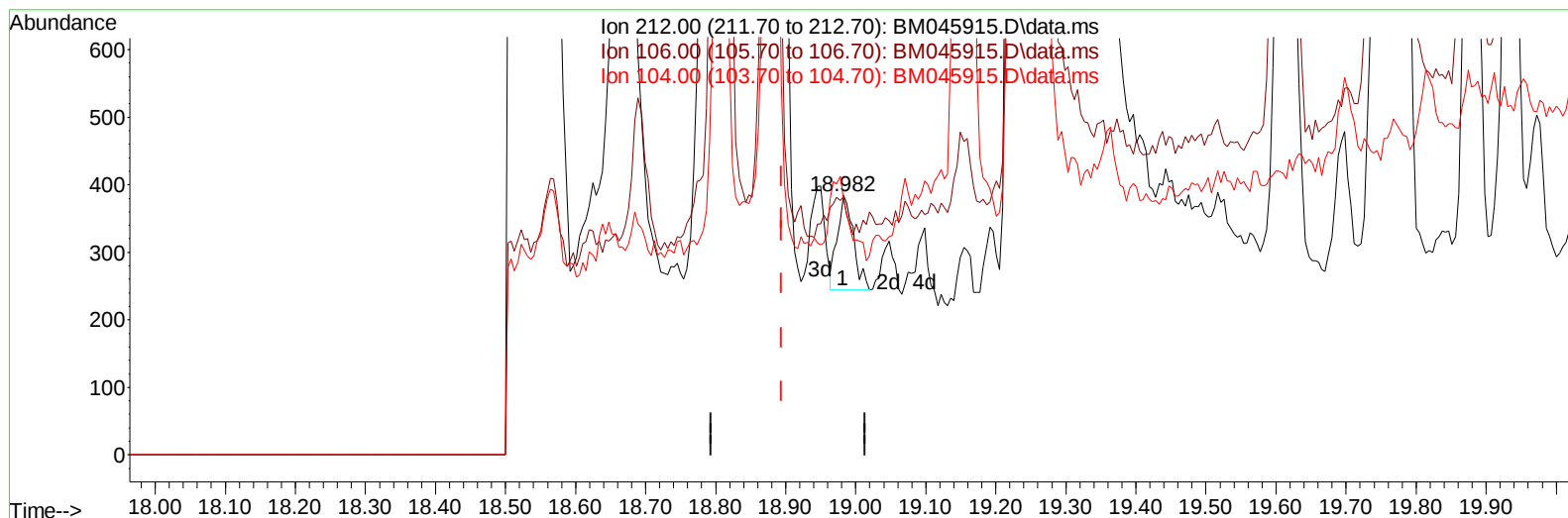
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

## Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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TIC: BM045915.D\data.ms

## (18) Fluoranthene-d10 (SURR)

18.982min (+ 0.088) 0.00 ng/u1

response 225

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 212.00 | 100.00 | 100.00  |
| 106.00 | 14.00  | 52.44#  |
| 104.00 | 8.70   | 104.00# |
| 0.00   | 0.00   | 0.00    |

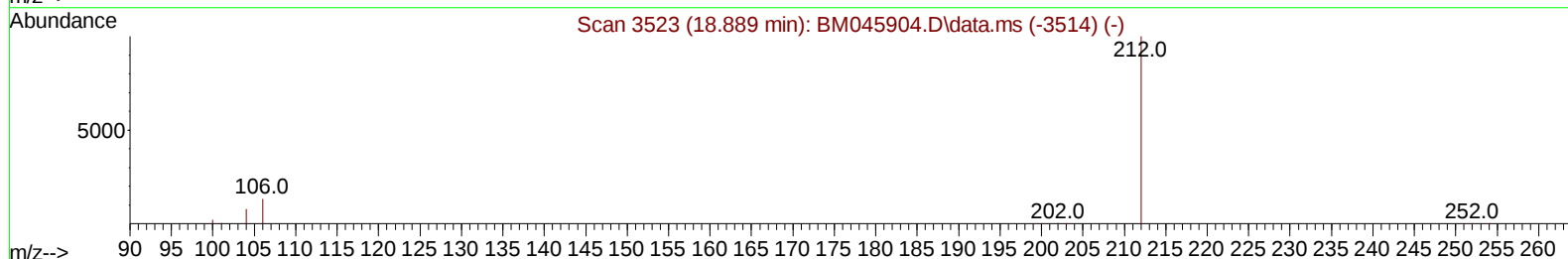
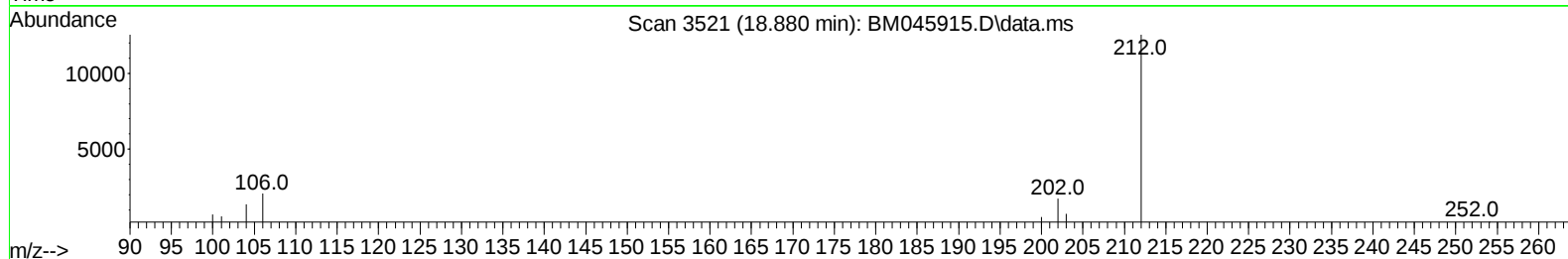
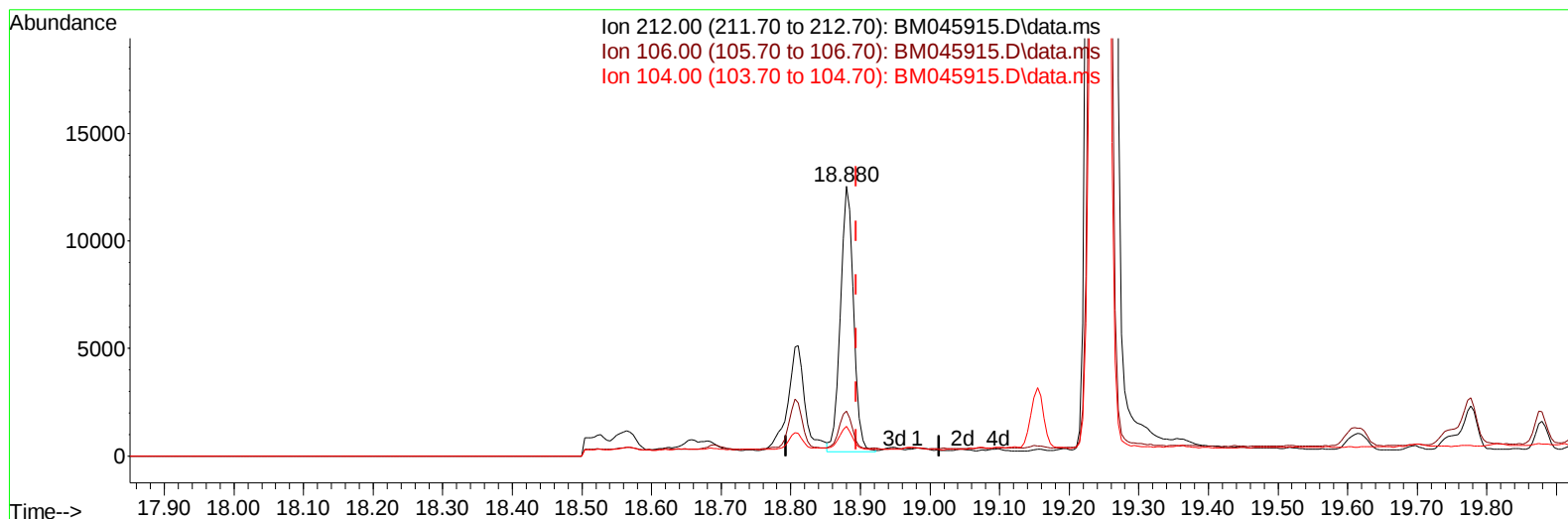
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(18) Fluoranthene-d10 (SURR)

18.880min (-0.014) 0.30 ng/u1 m

response 16334

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 212.00 | 100.00 | 100.00 |
| 106.00 | 14.00  | 0.72#  |
| 104.00 | 8.70   | 1.43#  |
| 0.00   | 0.00   | 0.00   |

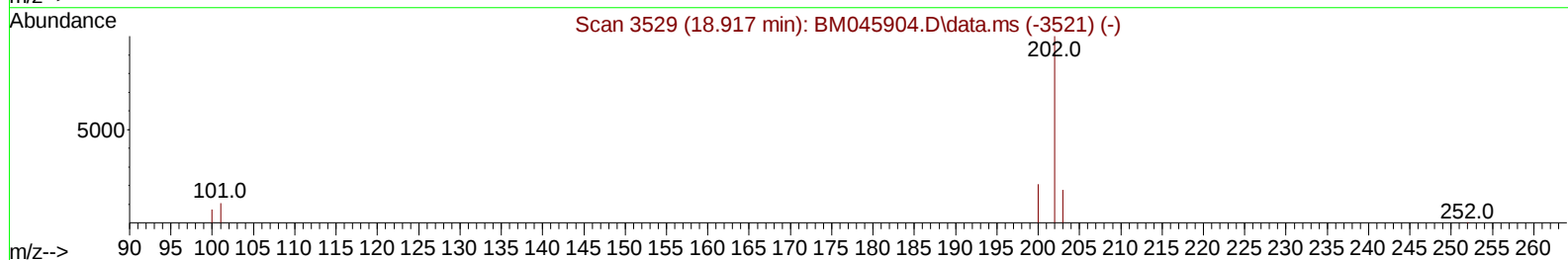
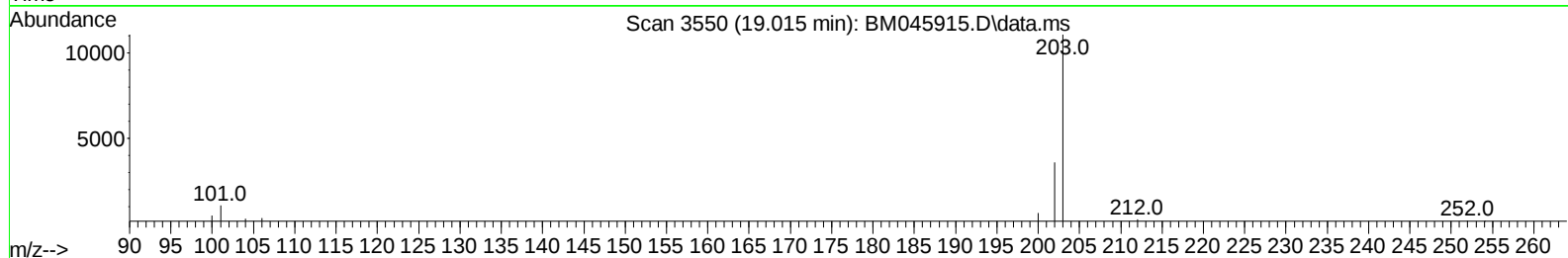
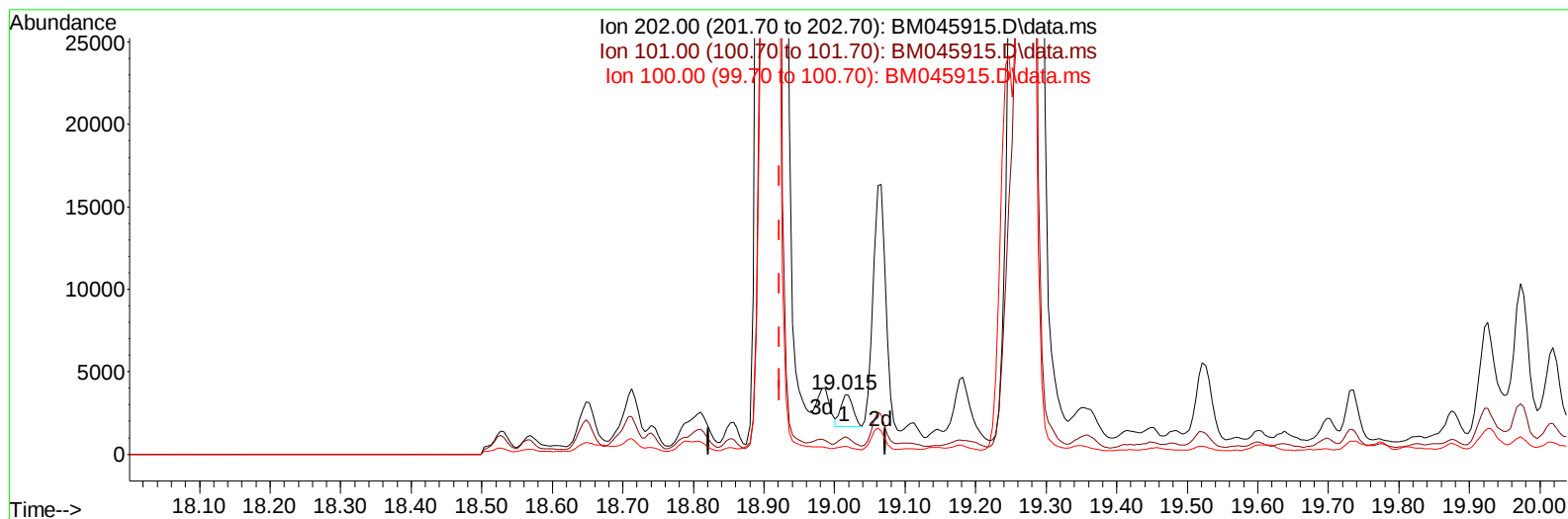
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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QLast Update : Fri Jun 07 22:59:16 2024  
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Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(19) Fluoranthene (C)

19.015min (+ 0.093) 0.03 ng/u1

response 2294

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 11.30  | 29.46# |
| 100.00 | 8.80   | 13.37# |
| 0.00   | 0.00   | 0.00   |

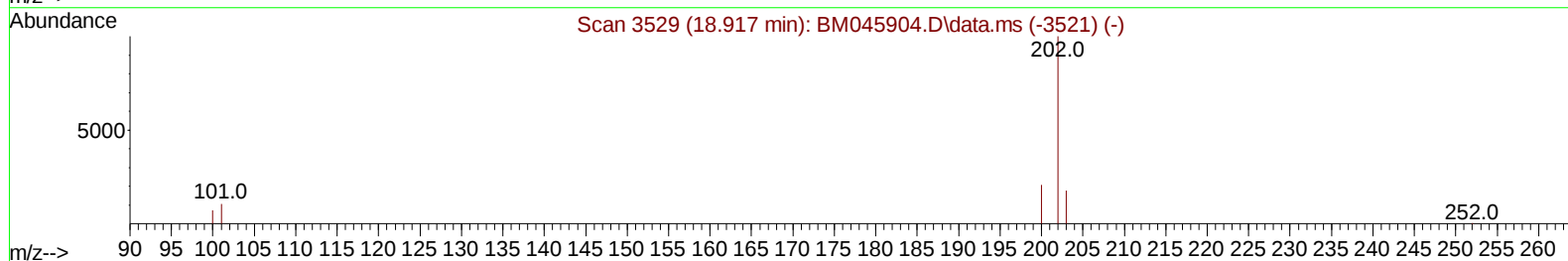
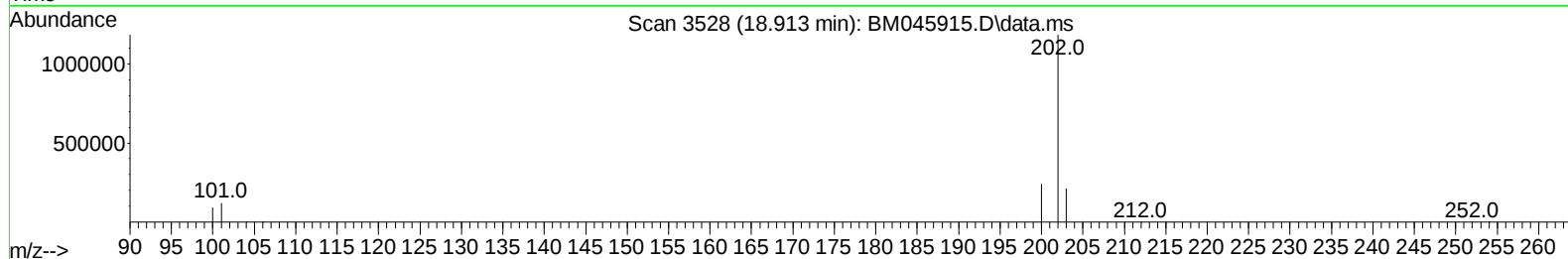
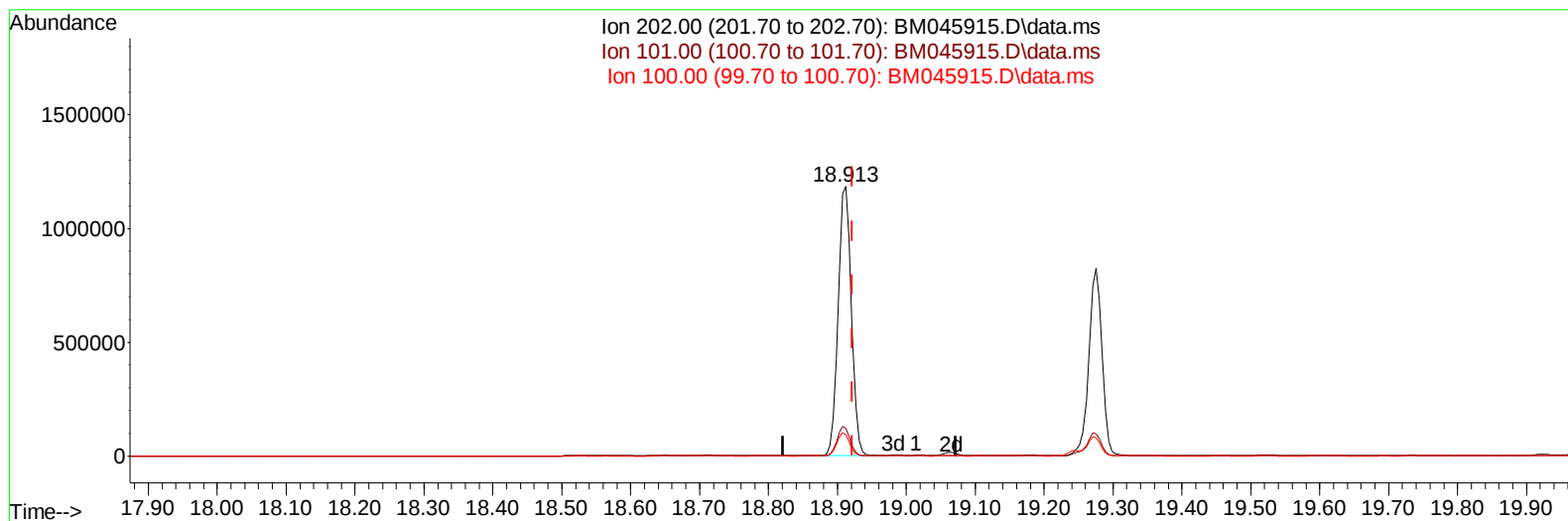
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045915.D  
 Acq On : 08 Jun 2024 14:27  
 Operator : MA/JU  
 Sample : P2640-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
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 Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

**(19) Fluoranthene (C)**

**18.913min (-0.009) 21.63 ng/ul m**

**response 1564308**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 11.30  | 10.33  |
| 100.00 | 8.80   | 7.81   |
| 0.00   | 0.00   | 0.00   |

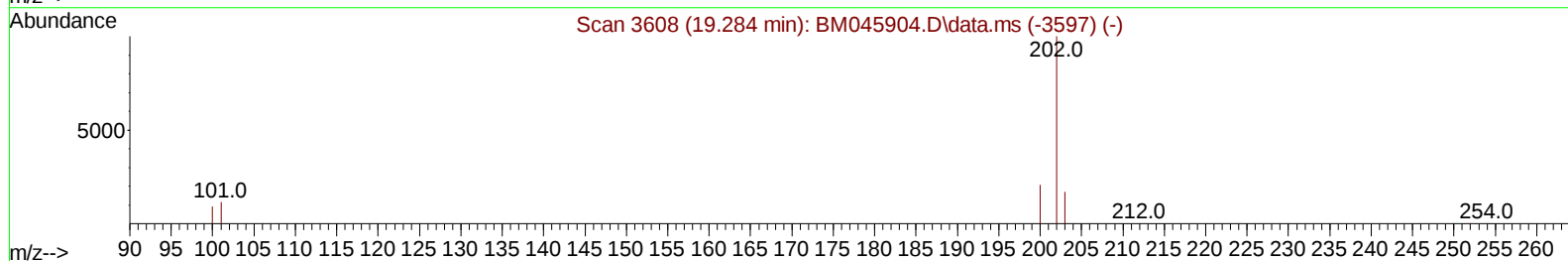
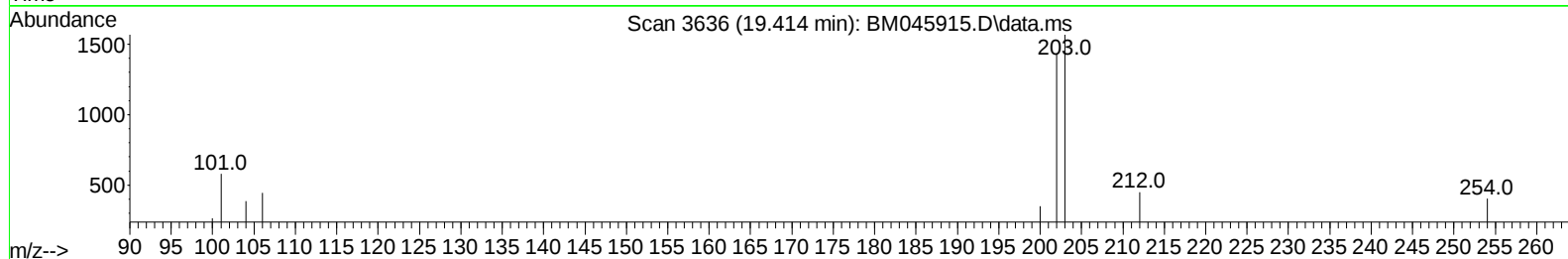
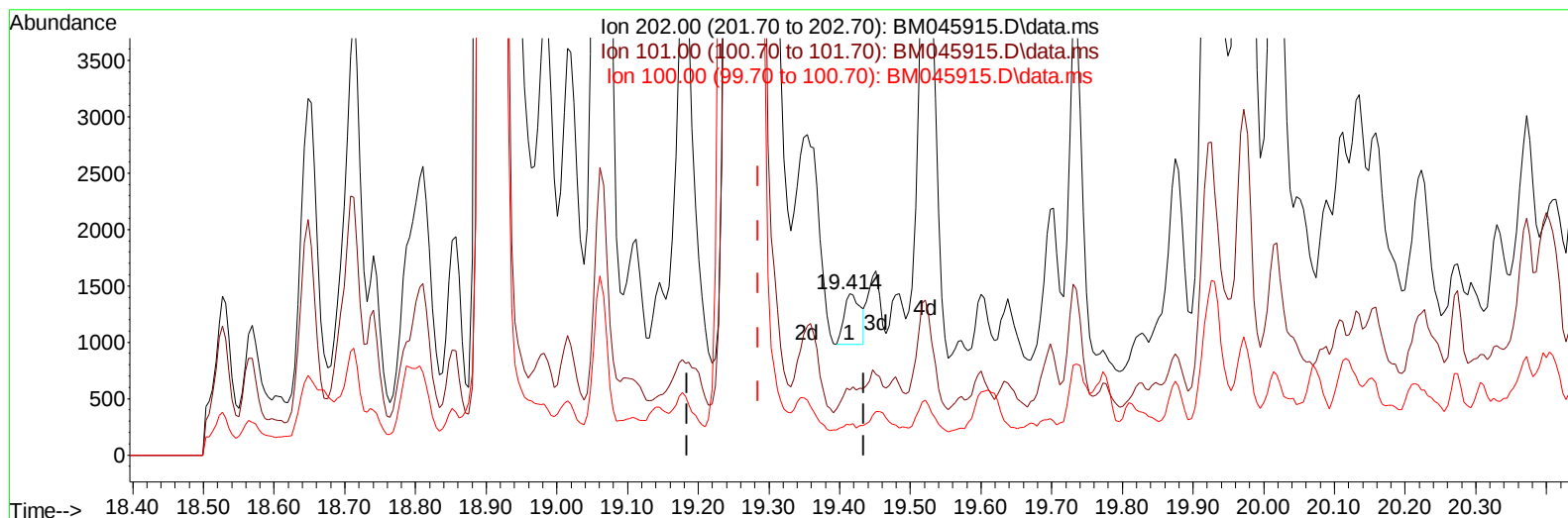
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(20) Pyrene

19.414min (+ 0.130) 0.01 ng/u1

response 725

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 13.30  | 40.49# |
| 100.00 | 11.40  | 18.60# |
| 0.00   | 0.00   | 0.00   |

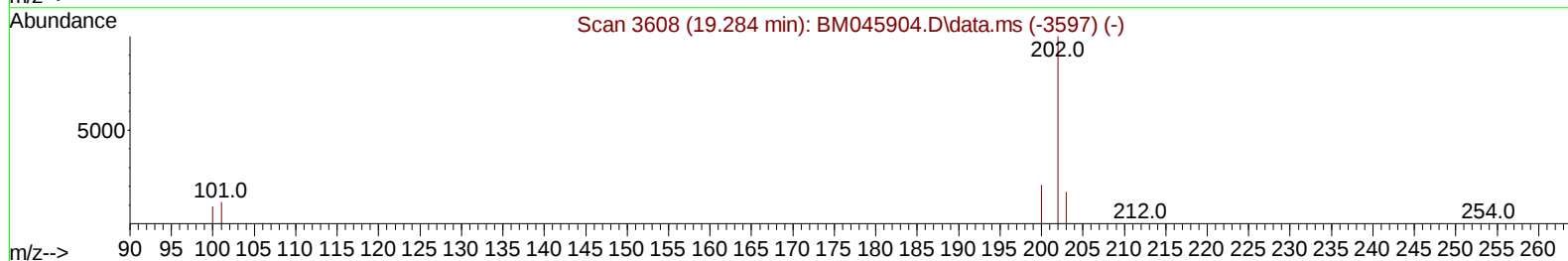
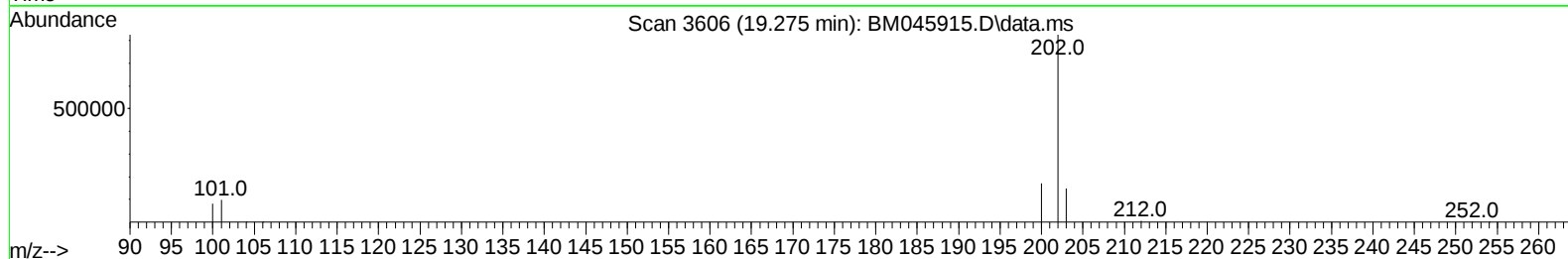
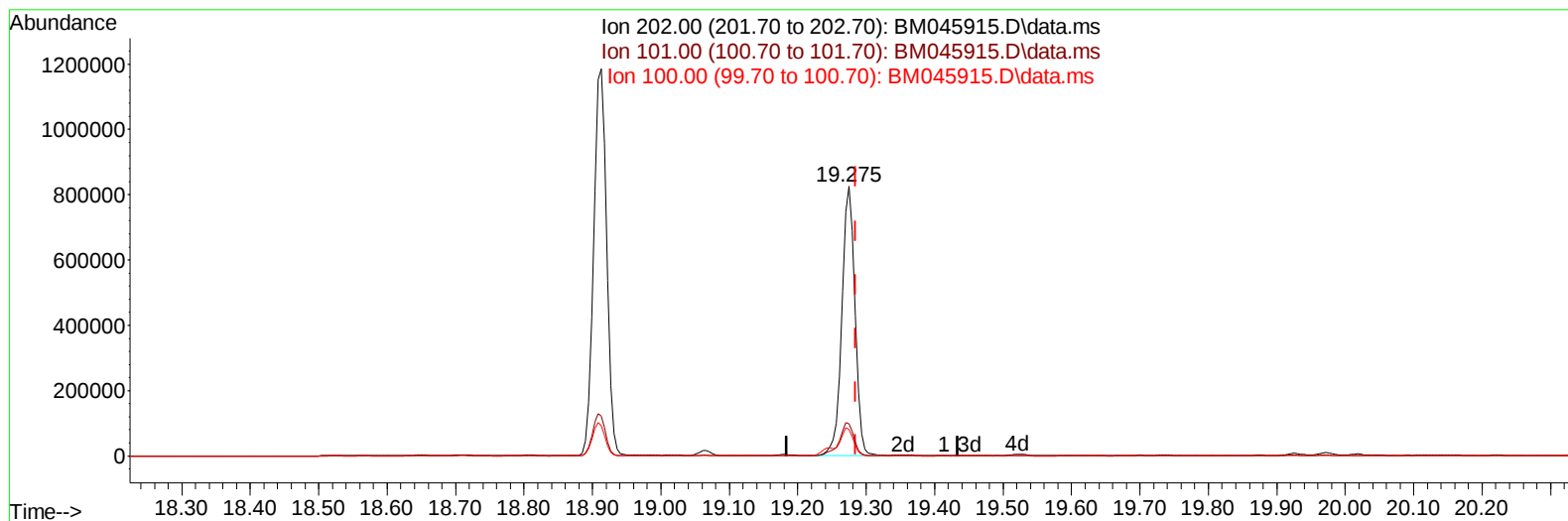
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045915.D  
 Acq On : 08 Jun 2024 14:27  
 Operator : MA/JU  
 Sample : P2640-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 07 22:59:16 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
 Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(20) Pyrene

19.275min (-0.009) 14.61 ng/ul m

response 1102268

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 13.30  | 11.87  |
| 100.00 | 11.40  | 9.77   |
| 0.00   | 0.00   | 0.00   |

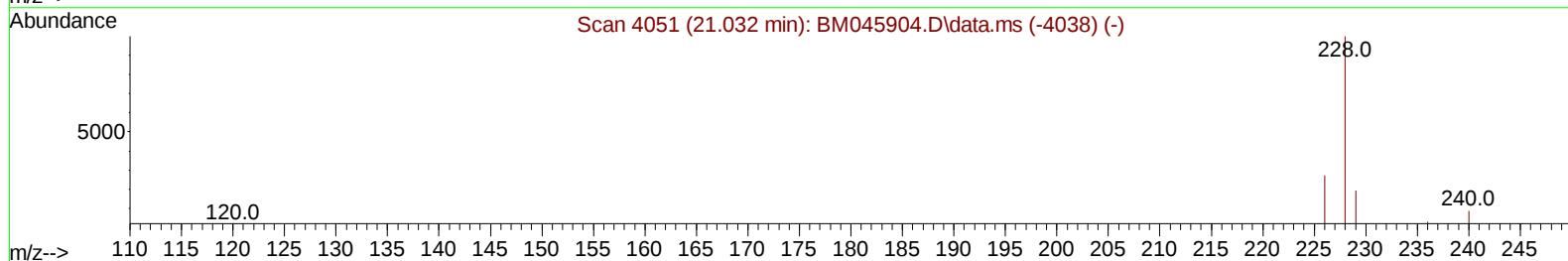
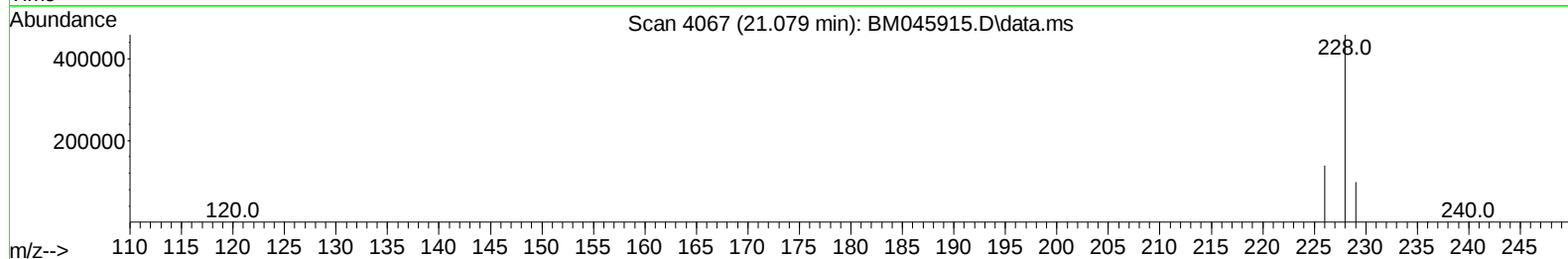
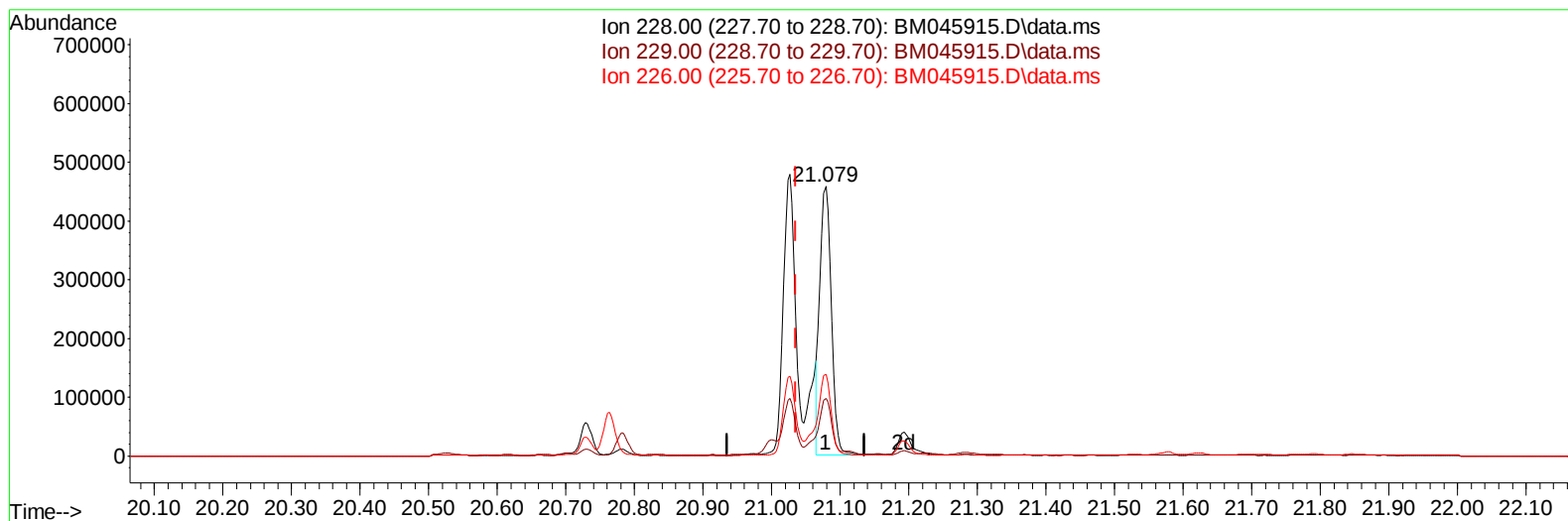
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(21) Benzo(a)anthracene

21.079min (+ 0.044) 8.02 ng/u1

response 533957

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 229.00 | 19.60  | 21.46  |
| 226.00 | 27.50  | 30.39  |
| 0.00   | 0.00   | 0.00   |



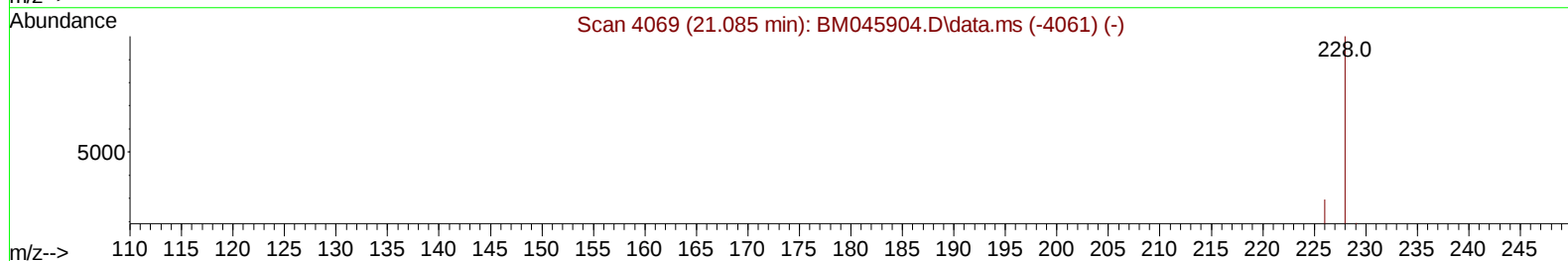
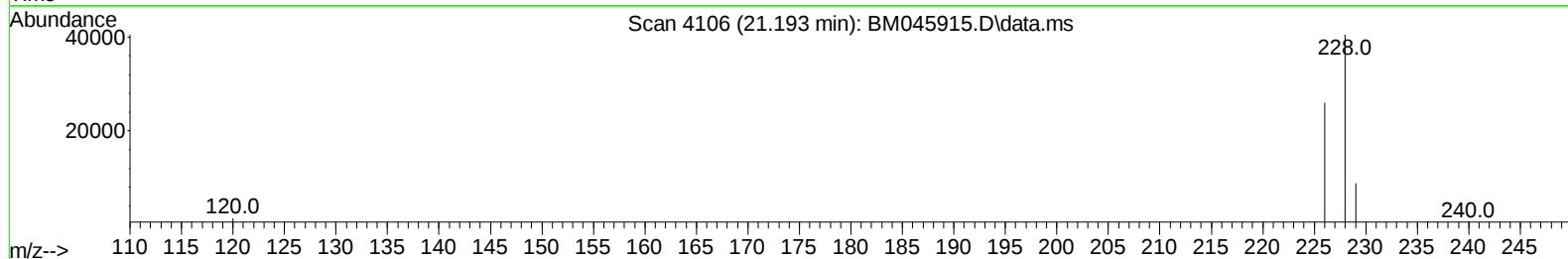
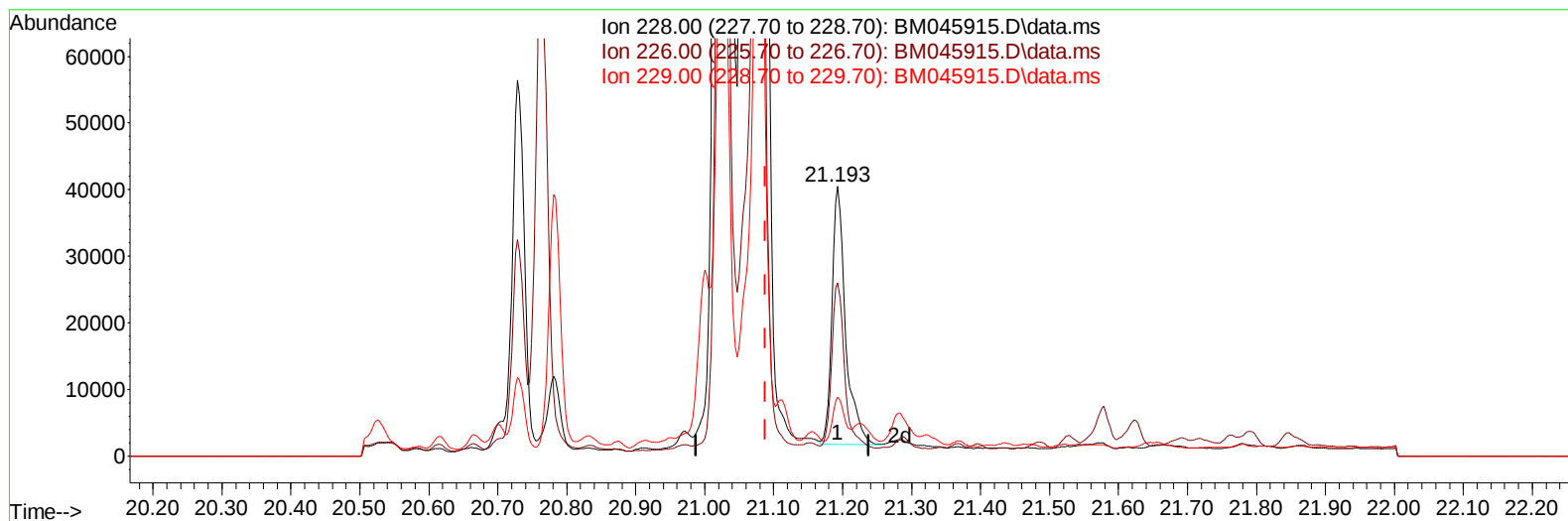
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(22) Chrysene

21.193min (+ 0.105) 0.73 ng/u1

response 52830

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.60  | 64.34# |
| 229.00 | 20.20  | 21.73  |
| 0.00   | 0.00   | 0.00   |

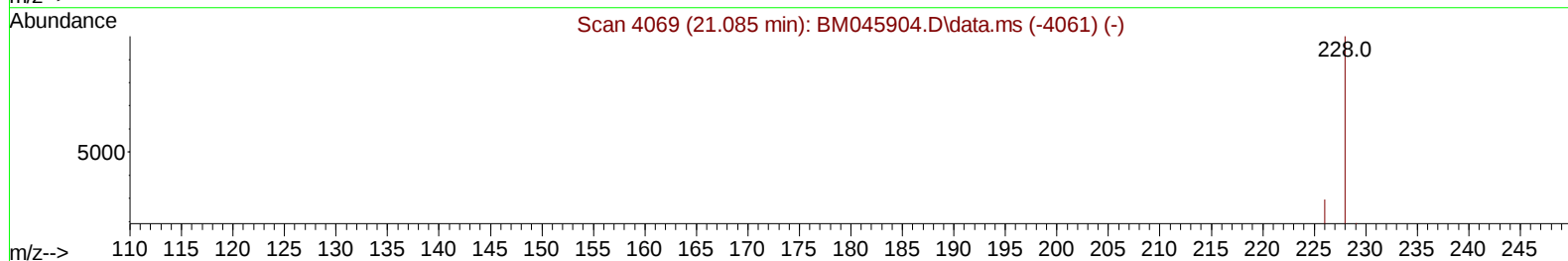
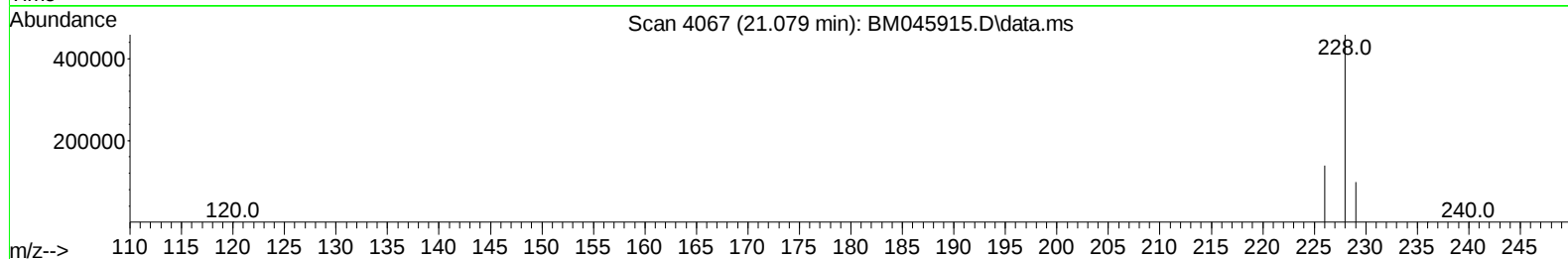
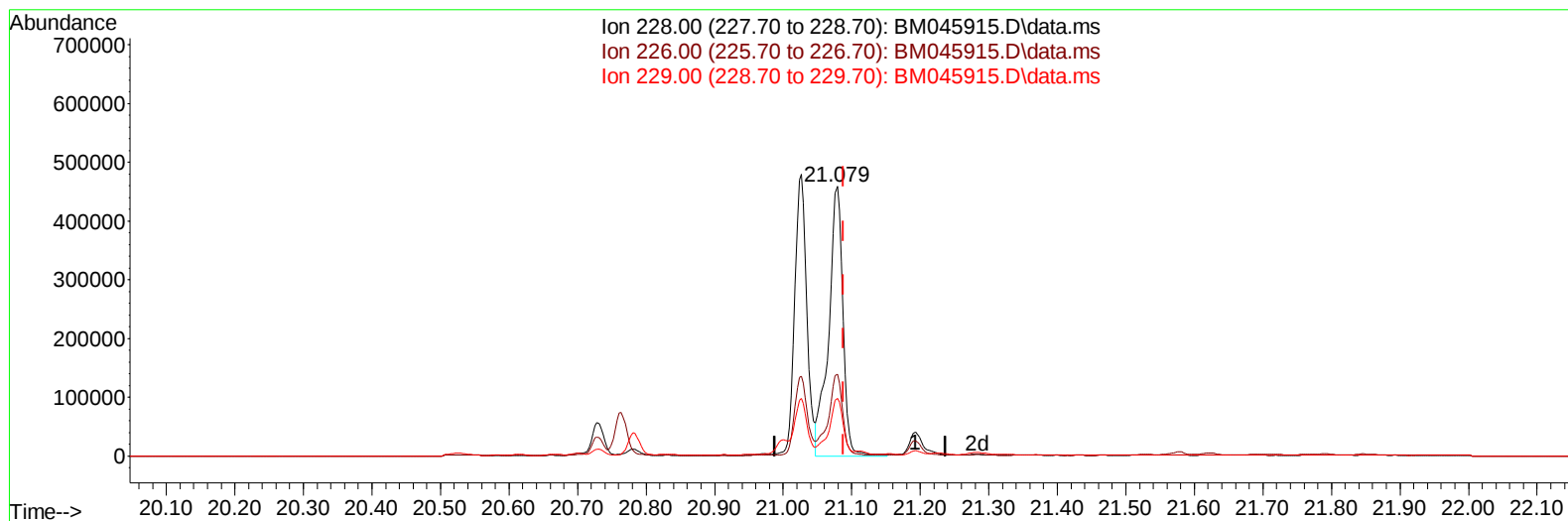
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(22) Chrysene

21.079min (-0.009) 9.18 ng/ul m

response 665016

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.60  | 30.39  |
| 229.00 | 20.20  | 21.46  |
| 0.00   | 0.00   | 0.00   |

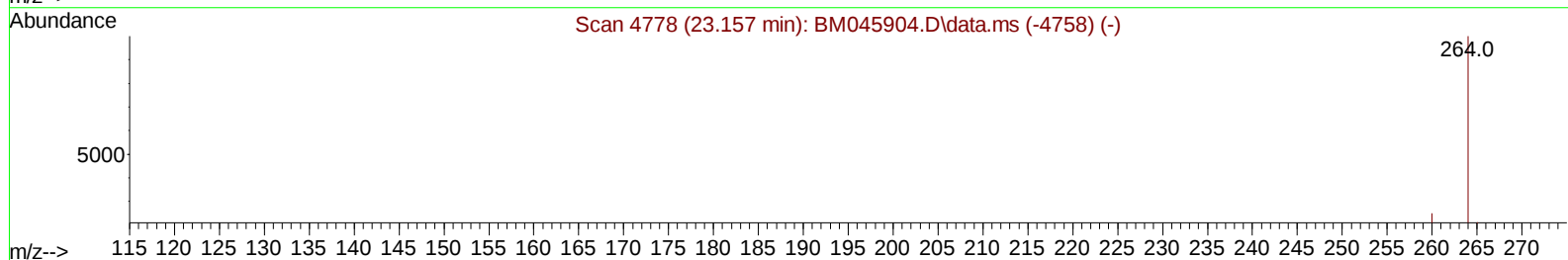
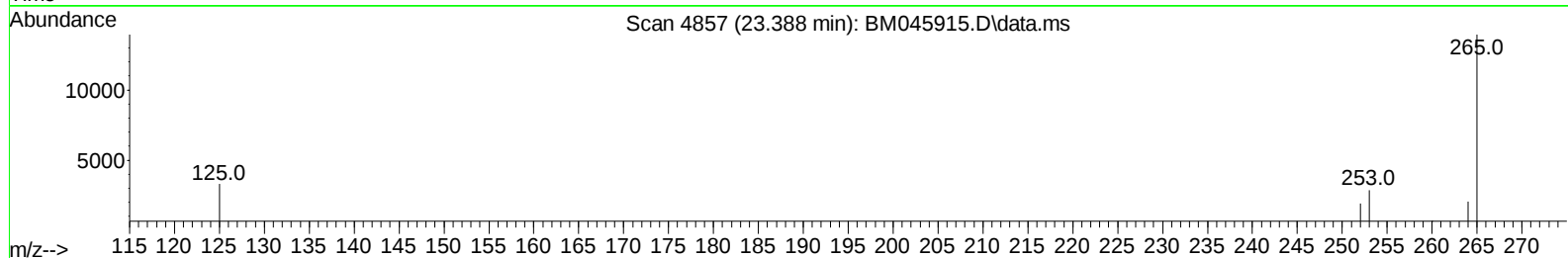
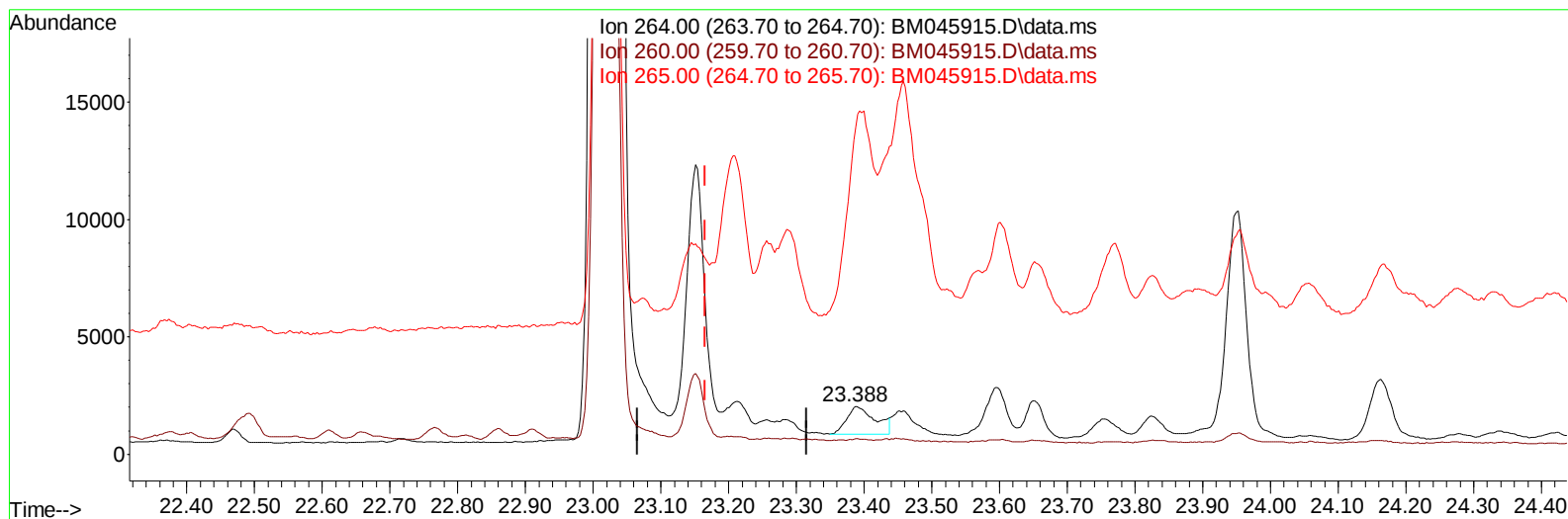
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(23) Perylene-d12 (I)

23.388min (+ 0.222) 0.40 ng/u1

response 3477

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 264.00 | 100.00 | 100.00  |
| 260.00 | 25.70  | 31.98#  |
| 265.00 | 76.60  | 681.01# |
| 0.00   | 0.00   | 0.00    |

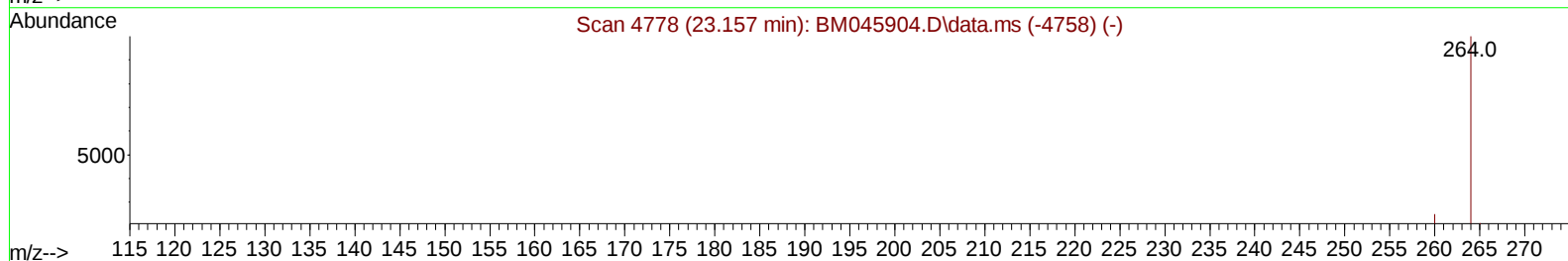
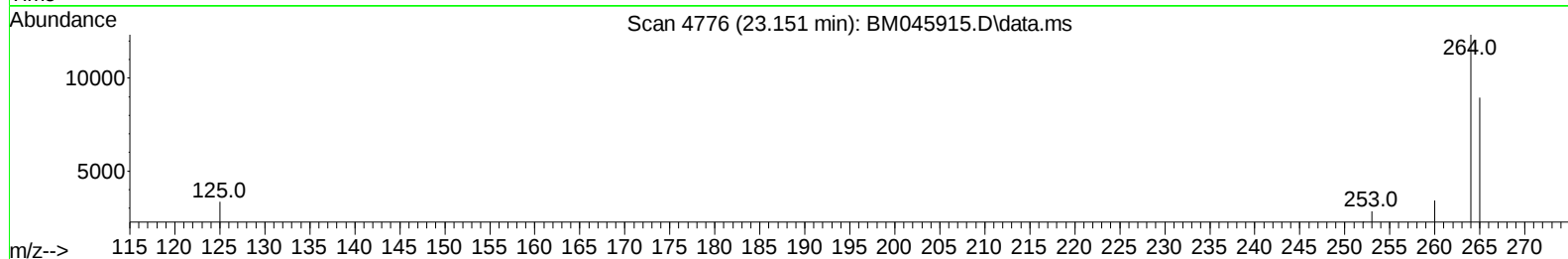
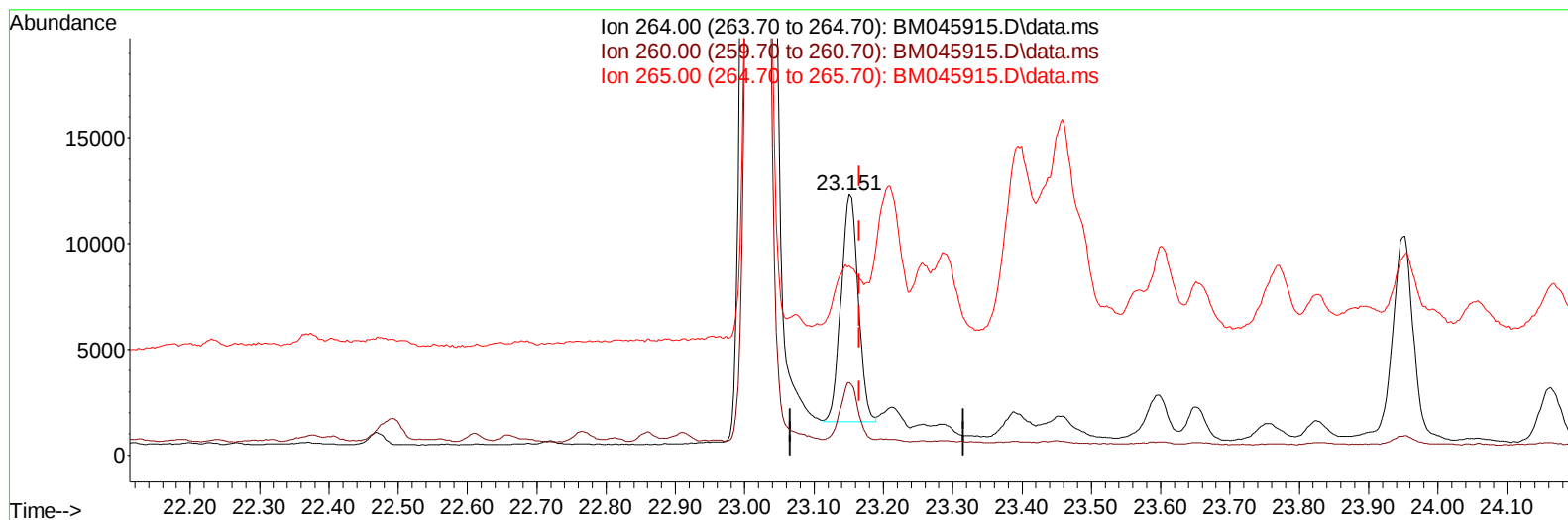
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(23) Perylene-d12 (I)

23.151min (-0.015) 0.40 ng/u1 m

response 18600

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 25.70  | 27.80  |
| 265.00 | 76.60  | 72.61  |
| 0.00   | 0.00   | 0.00   |

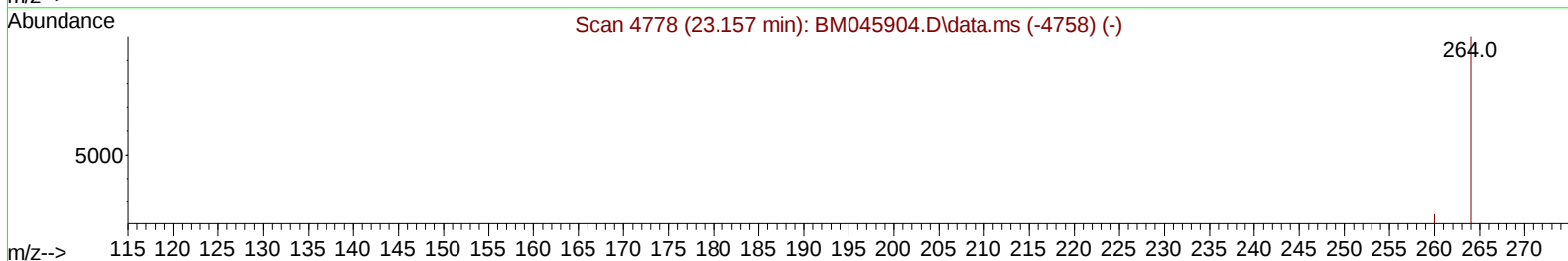
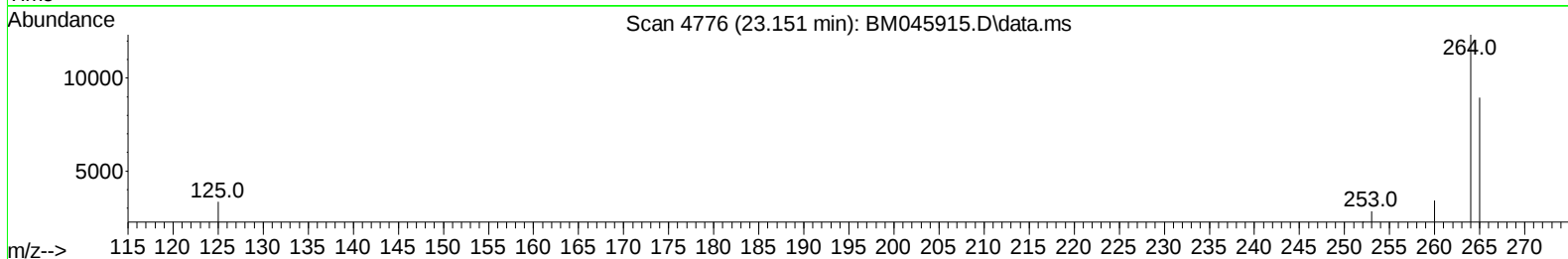
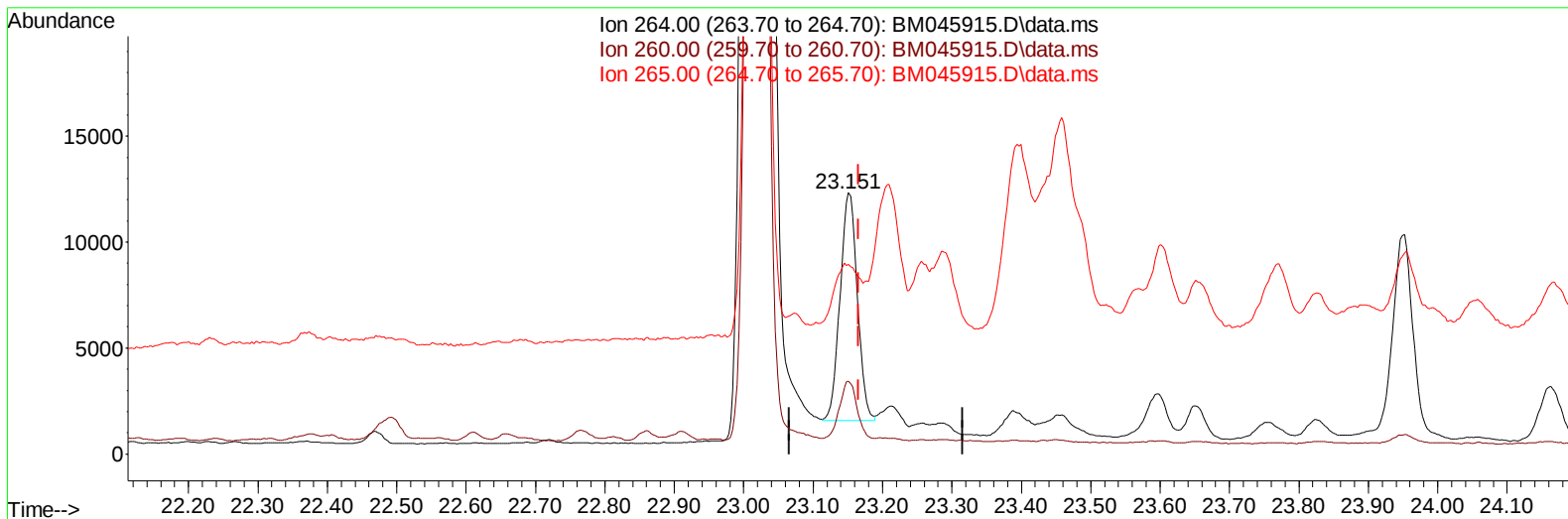
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(23) Perylene-d12 (I)

23.151min (-0.015) 0.40 ng/u1 m

response 18600

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 25.70  | 27.80  |
| 265.00 | 76.60  | 72.61  |
| 0.00   | 0.00   | 0.00   |

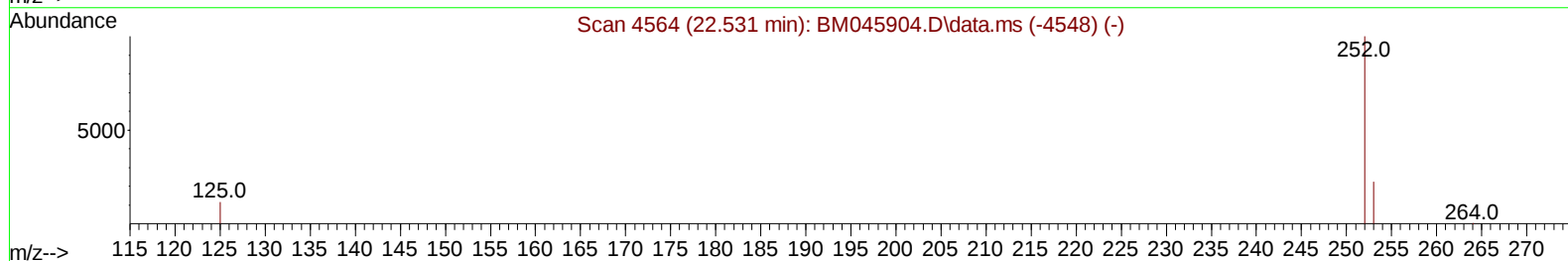
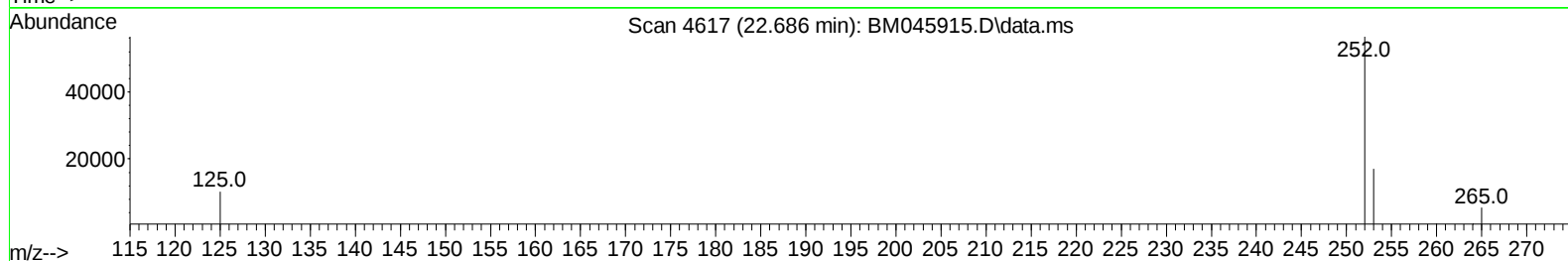
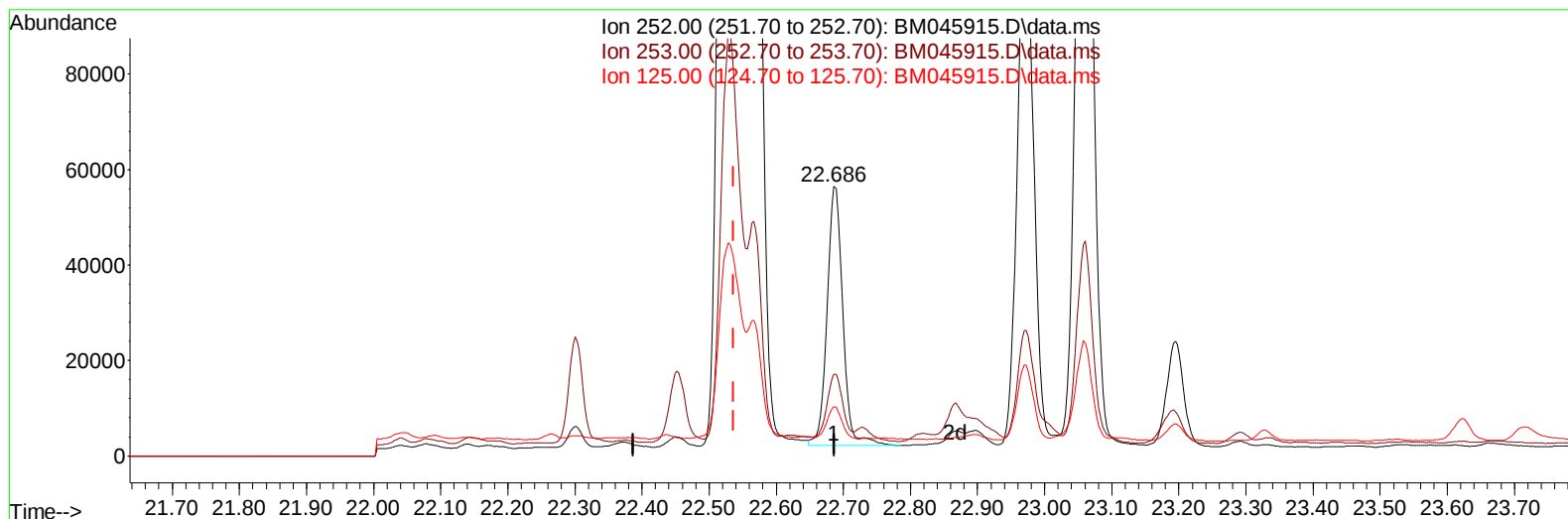
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045915.D  
 Acq On : 08 Jun 2024 14:27  
 Operator : MA/JU  
 Sample : P2640-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 07 22:59:16 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
 Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(24) Benzo(b)fluoranthene

22.686min (+ 0.149) 1.43 ng/u1

response 88241

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.80  | 30.22  |
| 125.00 | 17.90  | 18.22  |
| 0.00   | 0.00   | 0.00   |

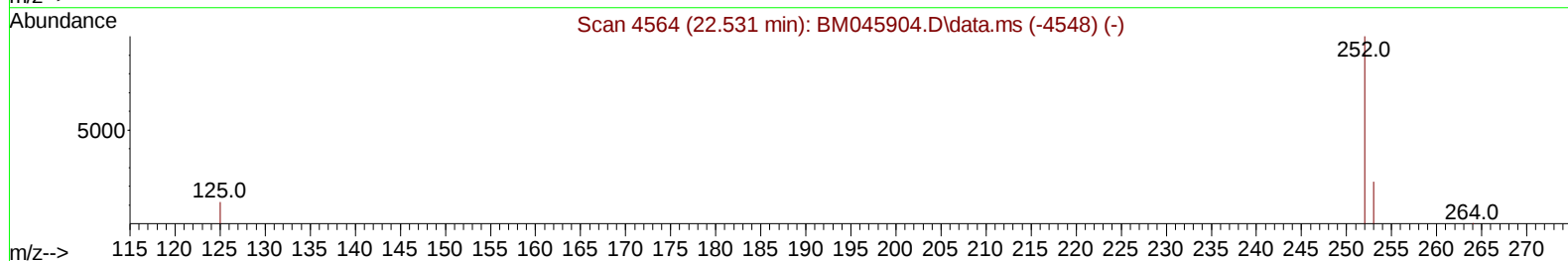
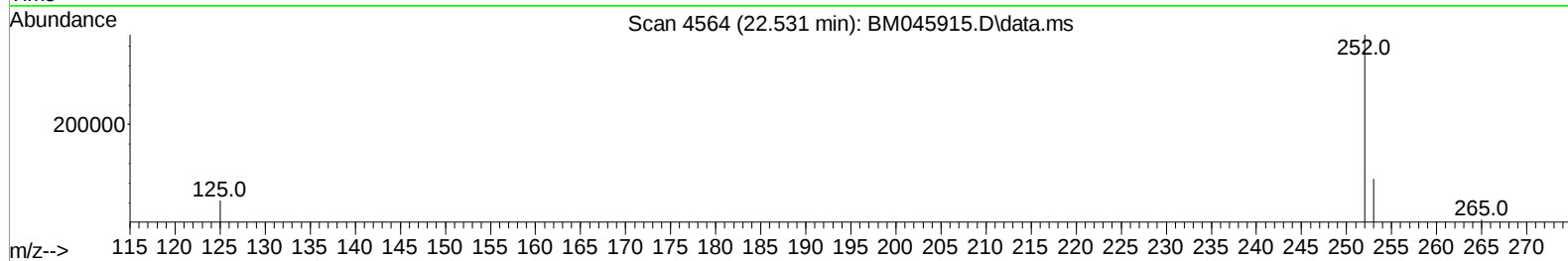
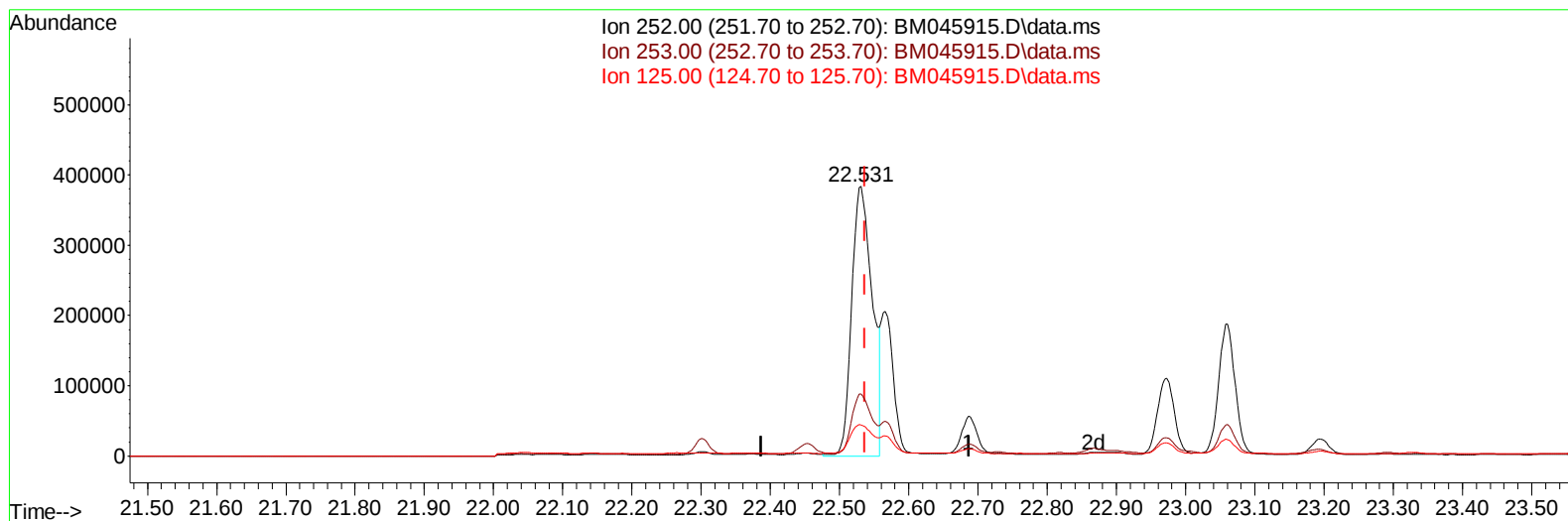
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(24) Benzo(b)fluoranthene

22.531min (-0.006) 12.87 ng/u1 m

response 794087

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.80  | 23.09  |
| 125.00 | 17.90  | 11.54  |
| 0.00   | 0.00   | 0.00   |

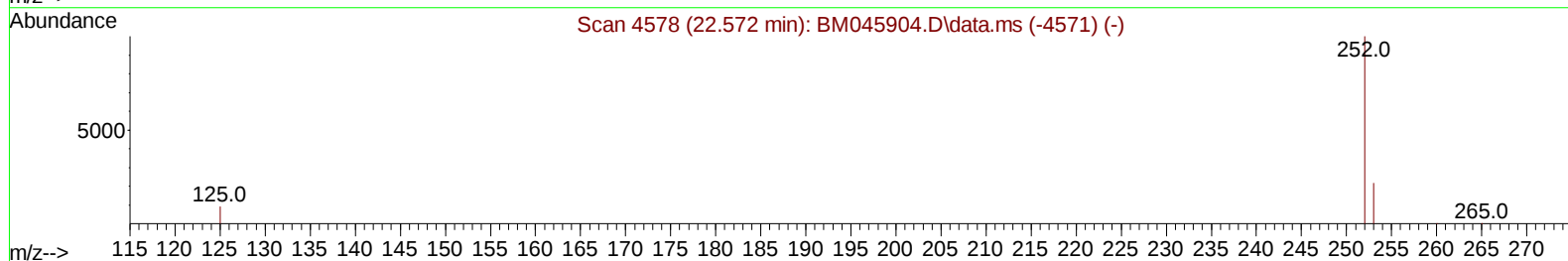
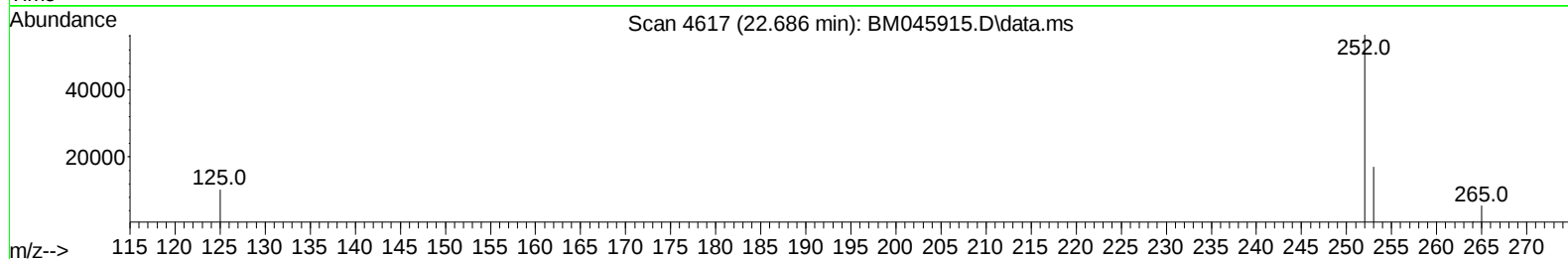
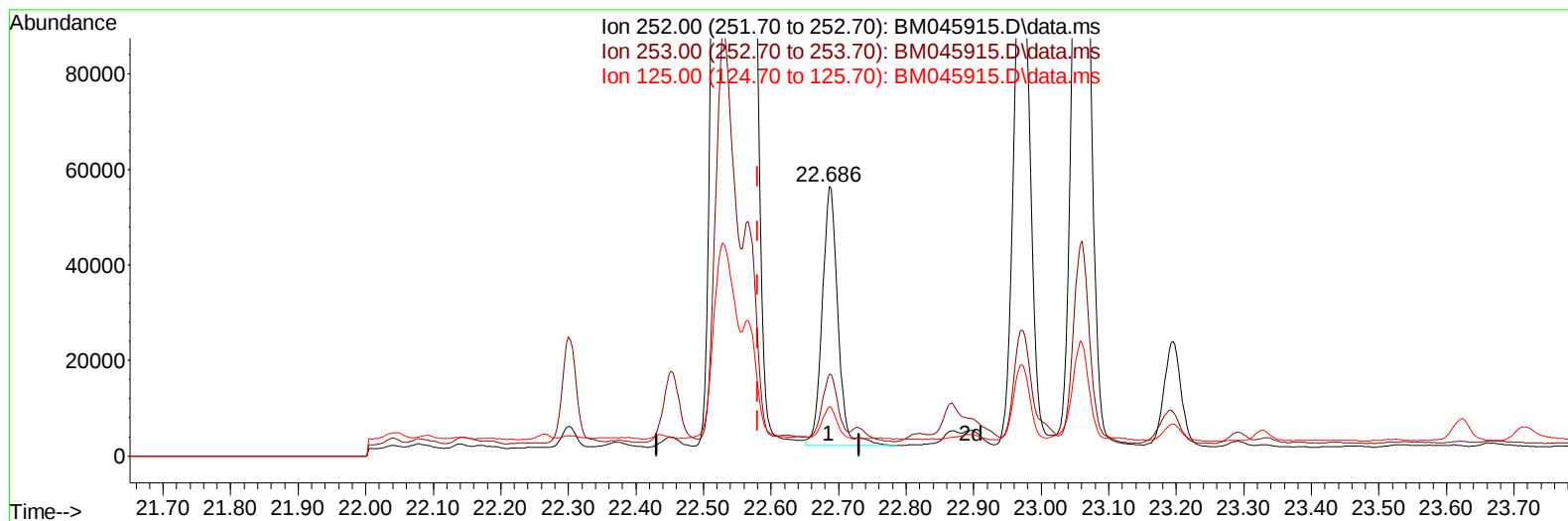
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(25) Benzo(k)fluoranthene

22.686min (+ 0.105) 1.30 ng/u1

response 88035

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.30  | 30.22  |
| 125.00 | 17.70  | 18.22  |
| 0.00   | 0.00   | 0.00   |

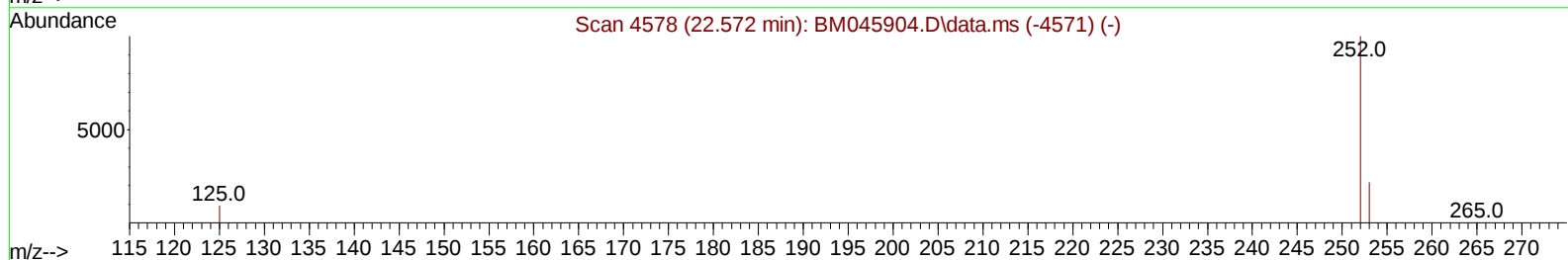
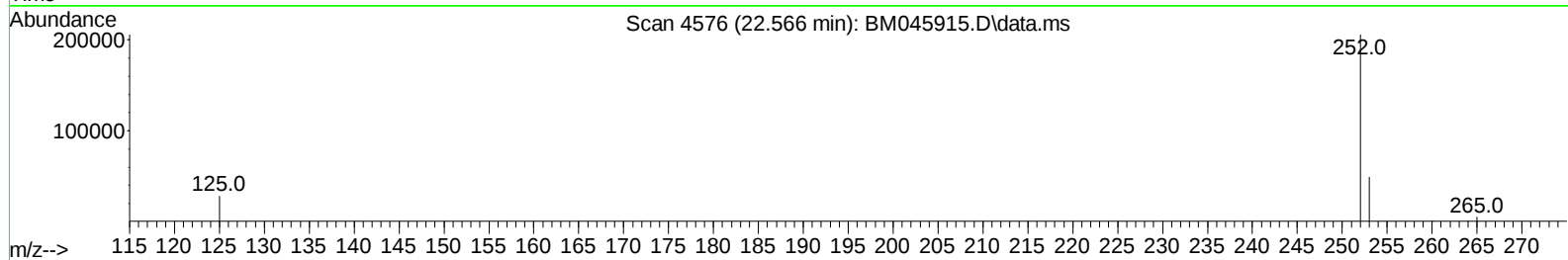
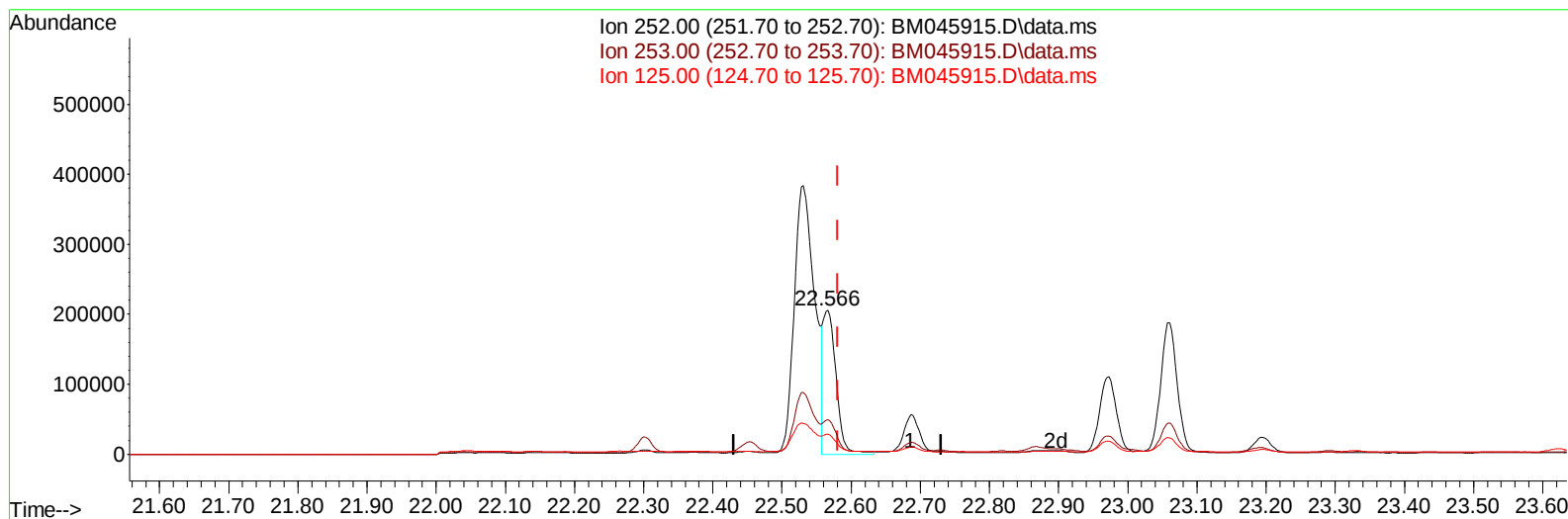
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(25) Benzo(k)fluoranthene

22.566min (-0.015) 3.88 ng/u1 m

response 262776

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.30  | 23.88# |
| 125.00 | 17.70  | 13.79# |
| 0.00   | 0.00   | 0.00   |

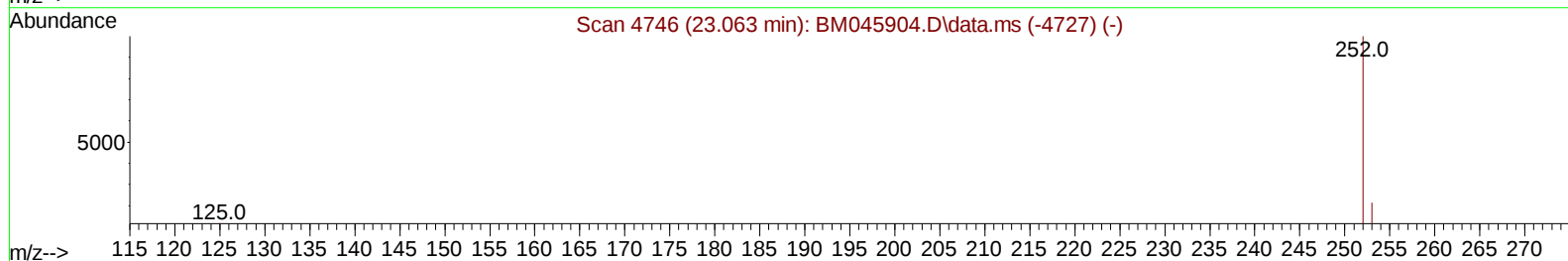
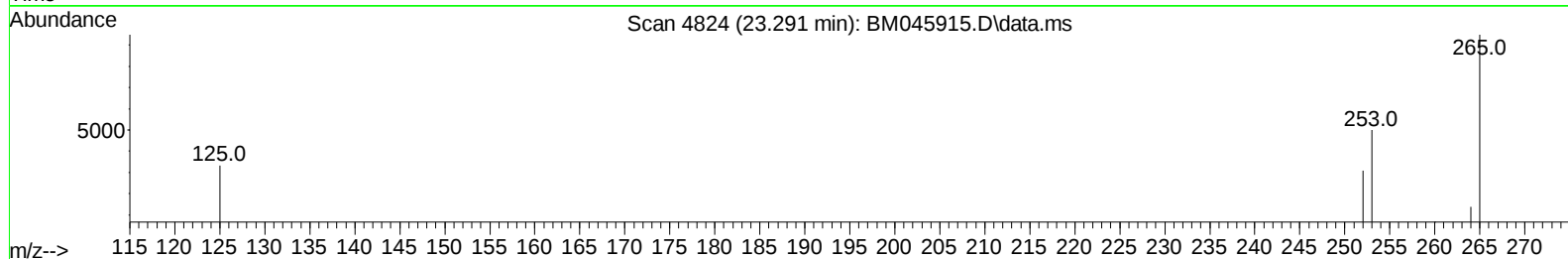
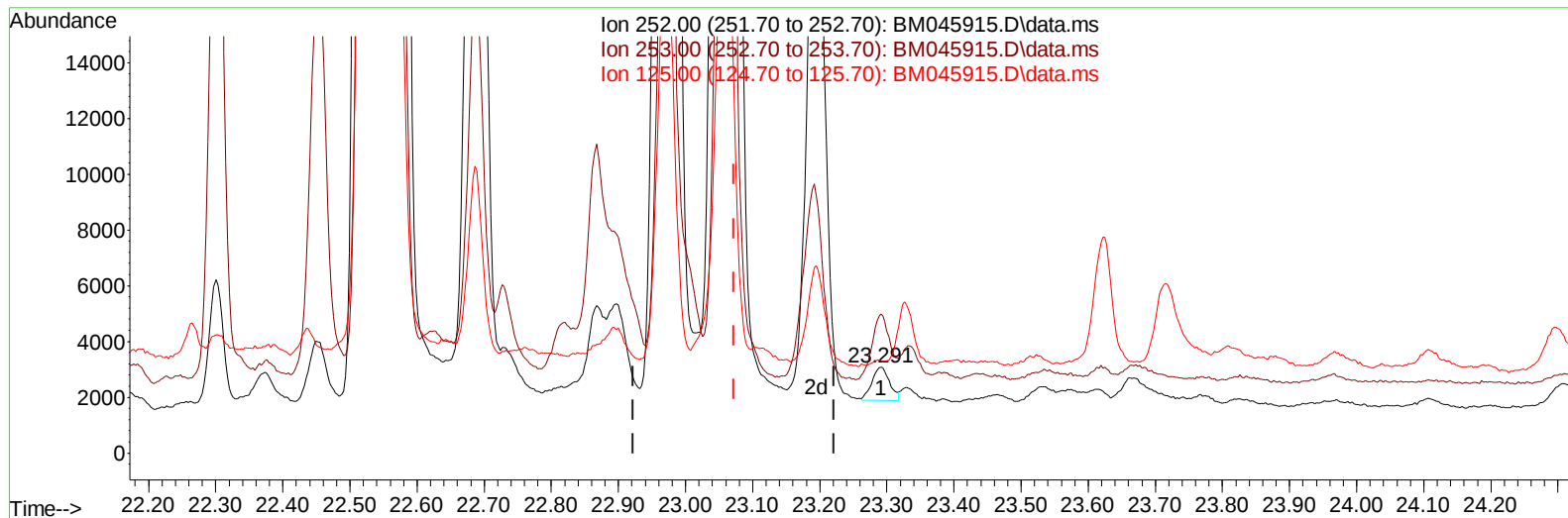
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

(26) Benzo(a)pyrene (C)

23.291min (+ 0.219) 0.04 ng/u1

response 2202

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 252.00 | 100.00 | 100.00  |
| 253.00 | 36.00  | 161.72# |
| 125.00 | 21.60  | 107.44# |
| 0.00   | 0.00   | 0.00    |

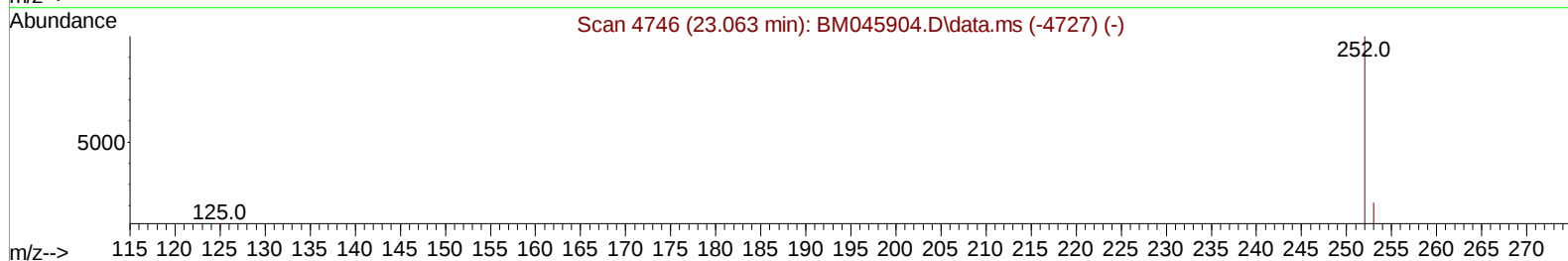
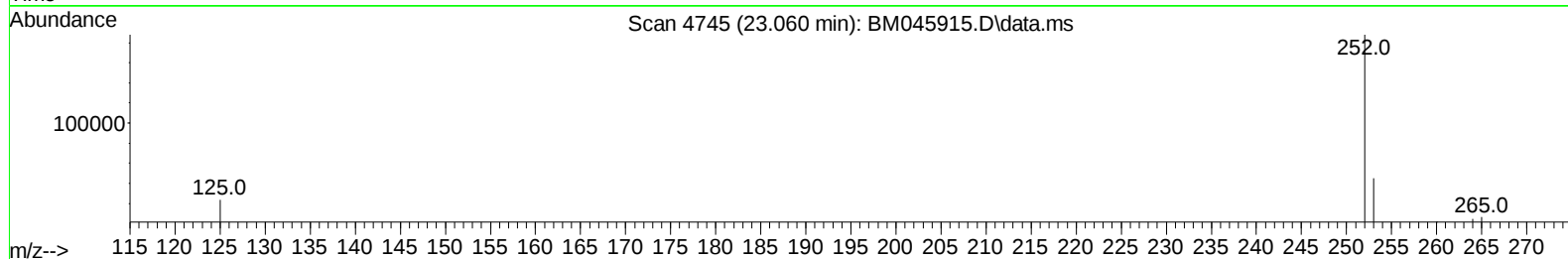
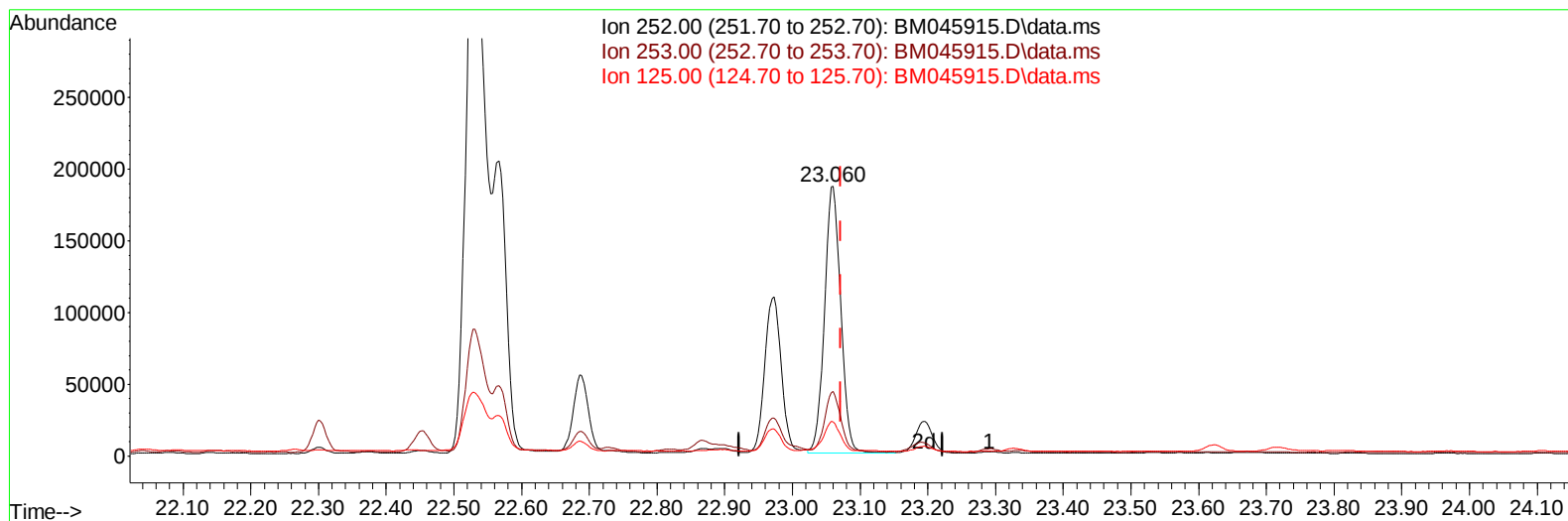
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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QLast Update : Fri Jun 07 22:59:16 2024  
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Reviewed By :Yogesh Patel 06/10/2024  
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TIC: BM045915.D\data.ms

(26) Benzo(a)pyrene (C)

23.060min (-0.012) 5.07 ng/u1 m

response 310787

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 36.00  | 23.97# |
| 125.00 | 21.60  | 12.56# |
| 0.00   | 0.00   | 0.00   |

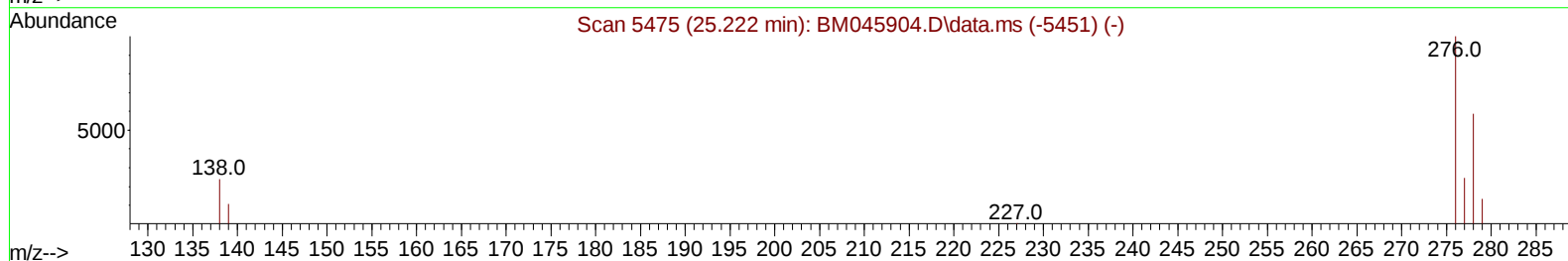
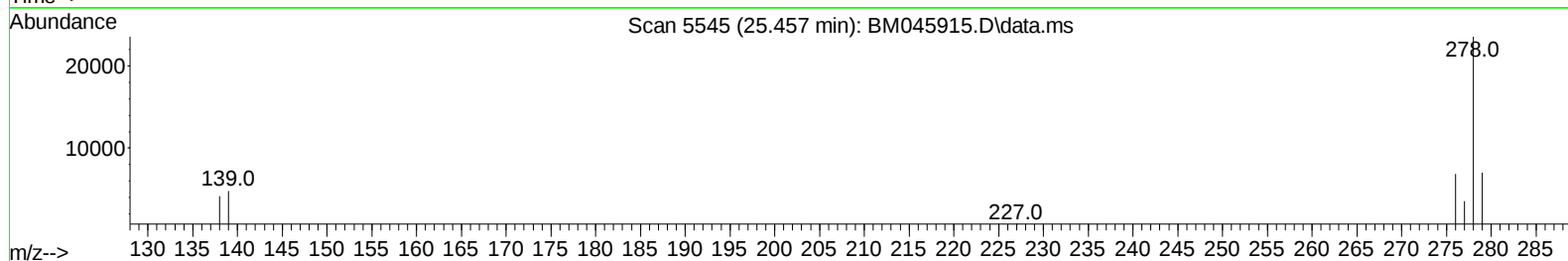
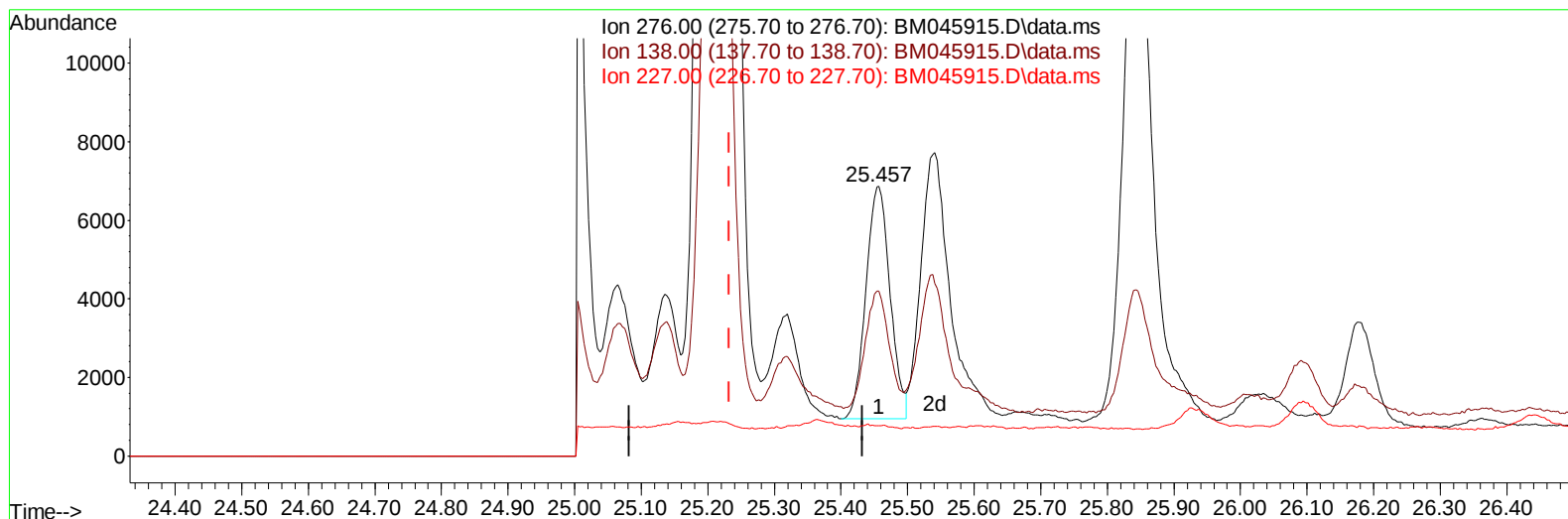
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045915.D\data.ms

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

25.457min (+ 0.225) 0.19 ng/u1

response 14847

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 25.90  | 49.40# |
| 227.00 | 0.20   | 0.46#  |
| 0.00   | 0.00   | 0.00   |

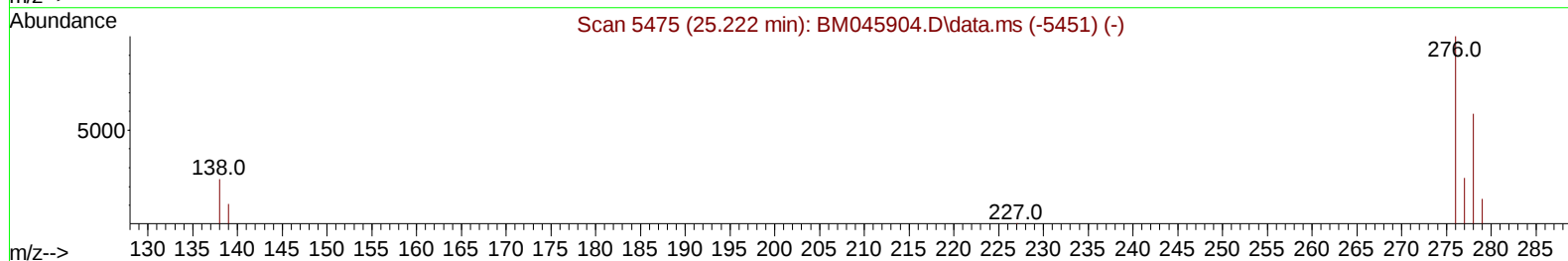
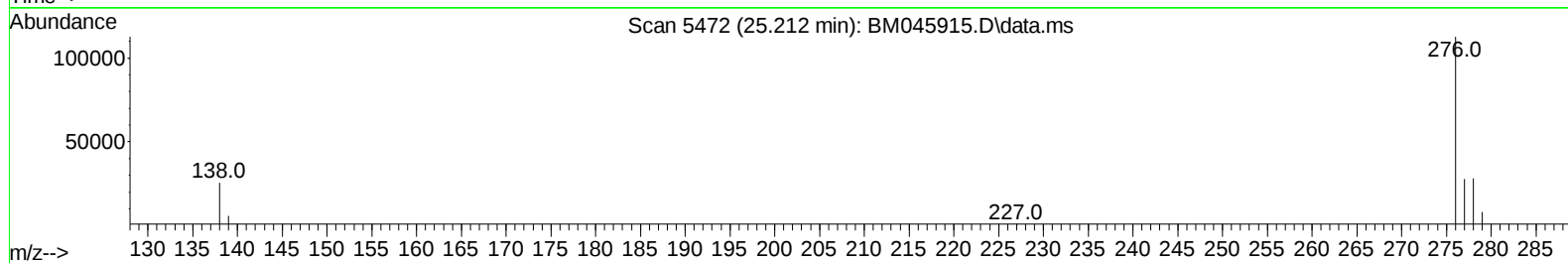
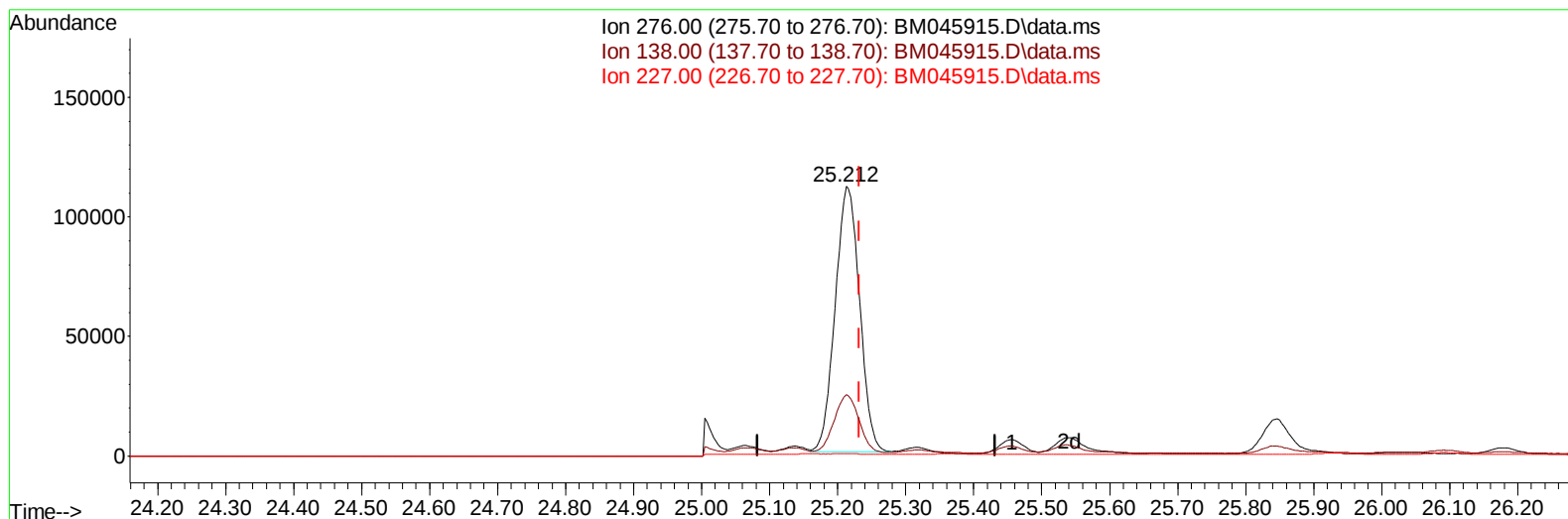
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045915.D  
 Acq On : 08 Jun 2024 14:27  
 Operator : MA/JU  
 Sample : P2640-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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 QLast Update : Fri Jun 07 22:59:16 2024  
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TIC: BM045915.D\data.ms

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

**25.212min (-0.020) 3.49 ng/u1 m**

**response 277065**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 25.90  | 2.65#  |
| 227.00 | 0.20   | 0.02#  |
| 0.00   | 0.00   | 0.00   |

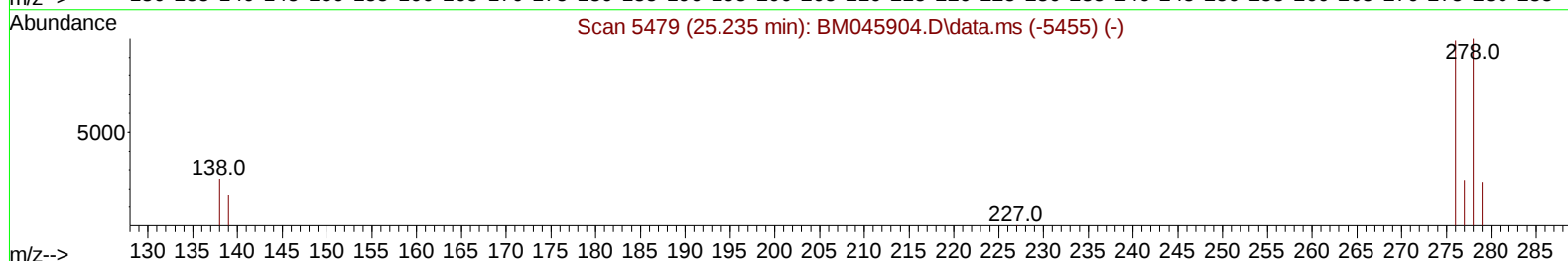
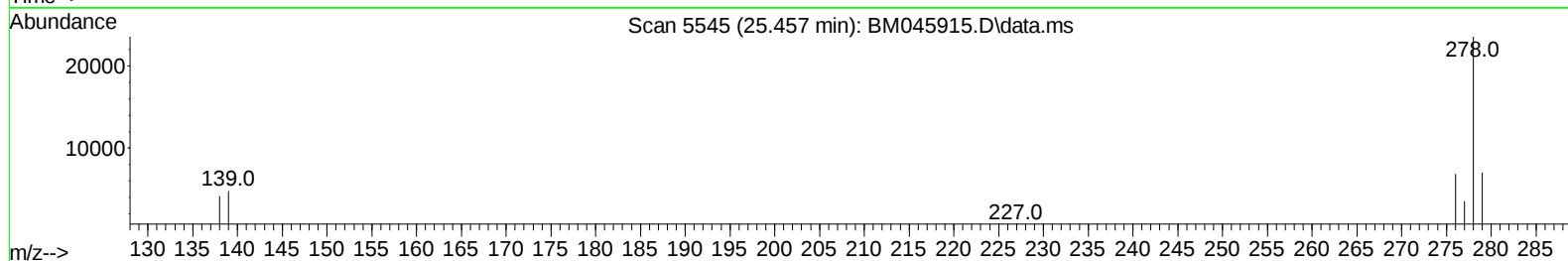
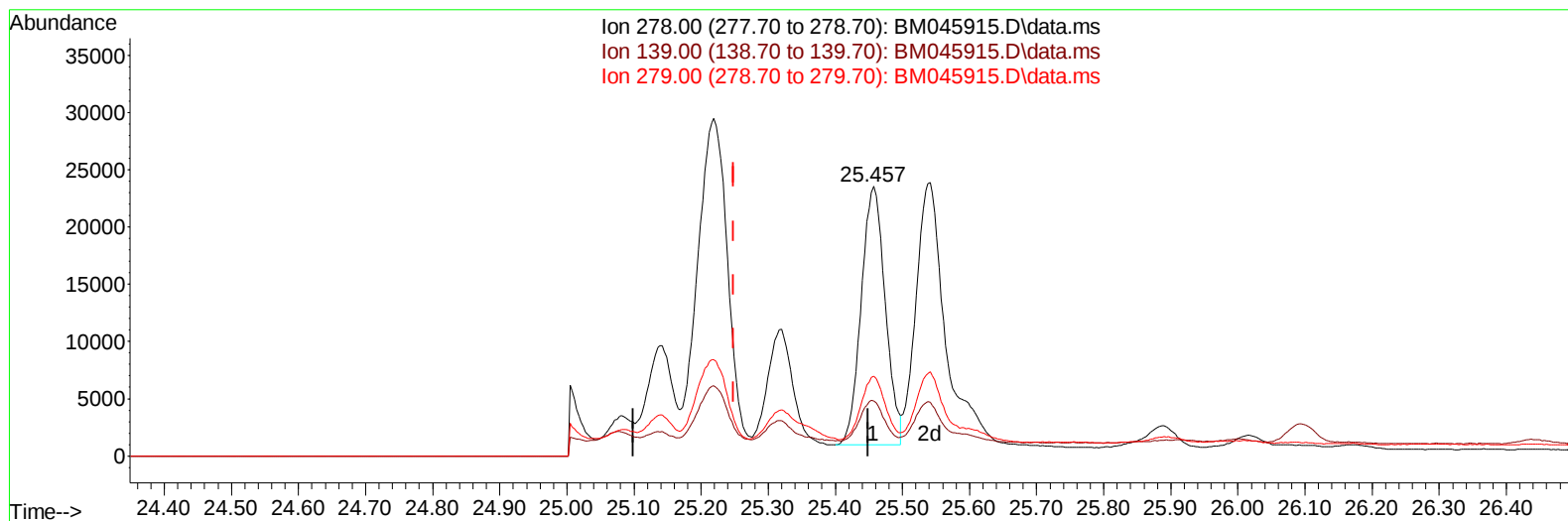
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

## Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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QLast Update : Fri Jun 07 22:59:16 2024  
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TIC: BM045915.D\data.ms

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

25.457min (+ 0.208) 0.89 ng/u1

response 56390

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 20.80  | 20.46  |
| 279.00 | 30.80  | 29.66  |
| 0.00   | 0.00   | 0.00   |

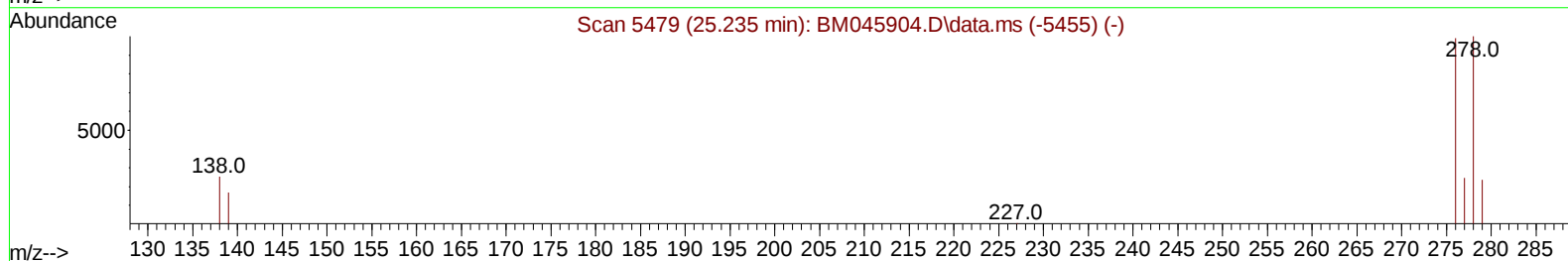
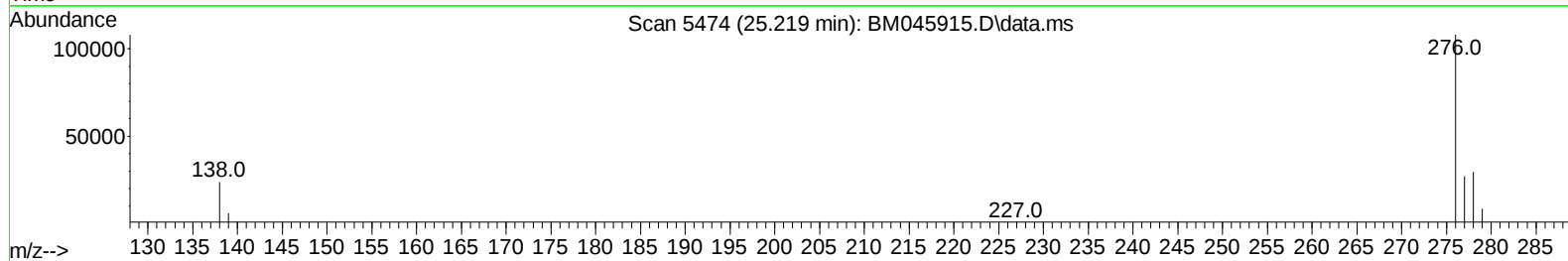
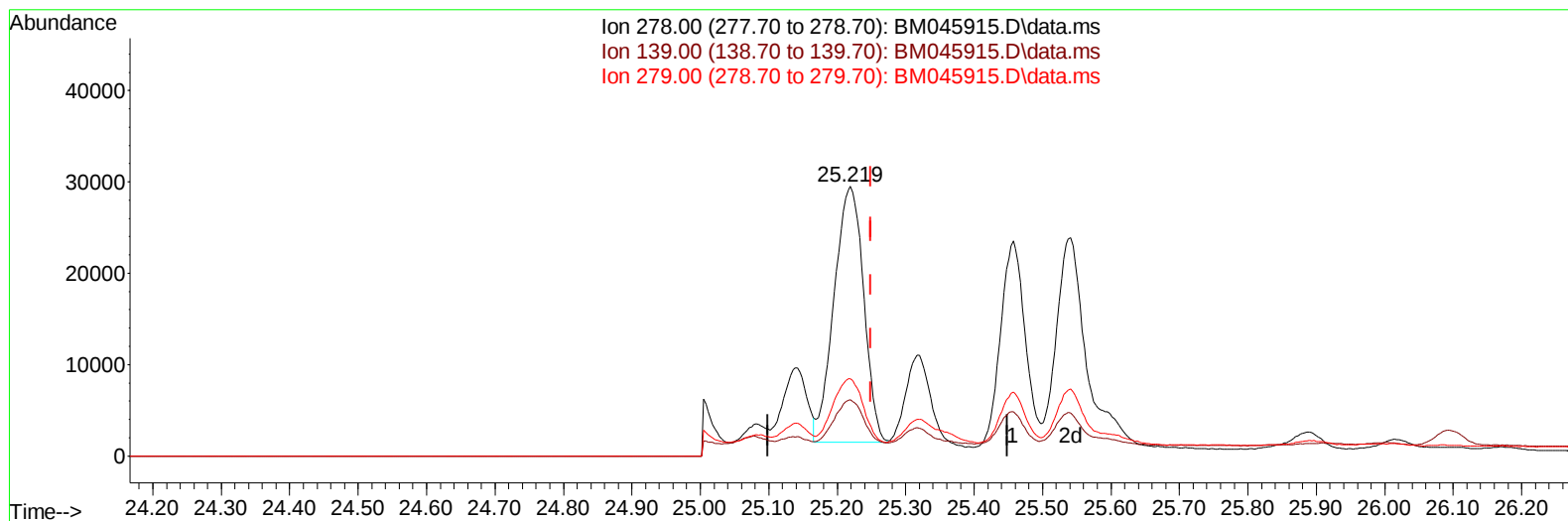
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
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QLast Update : Fri Jun 07 22:59:16 2024  
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TIC: BM045915.D\data.ms

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

**25.219min (-0.030) 1.32 ng/u1 m**

**response 84004**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 20.80  | 20.82  |
| 279.00 | 30.80  | 28.56  |
| 0.00   | 0.00   | 0.00   |

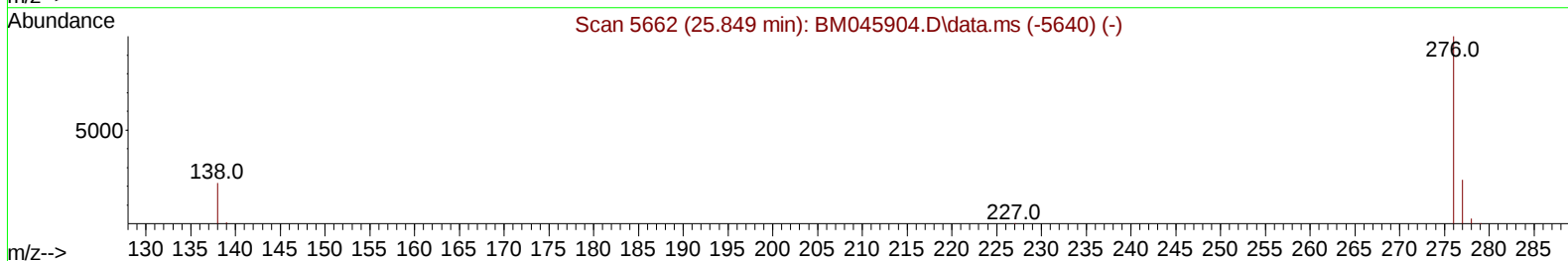
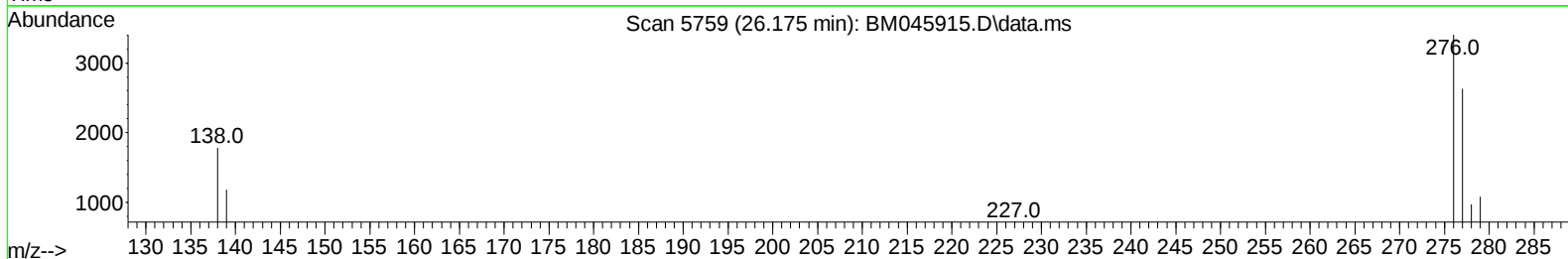
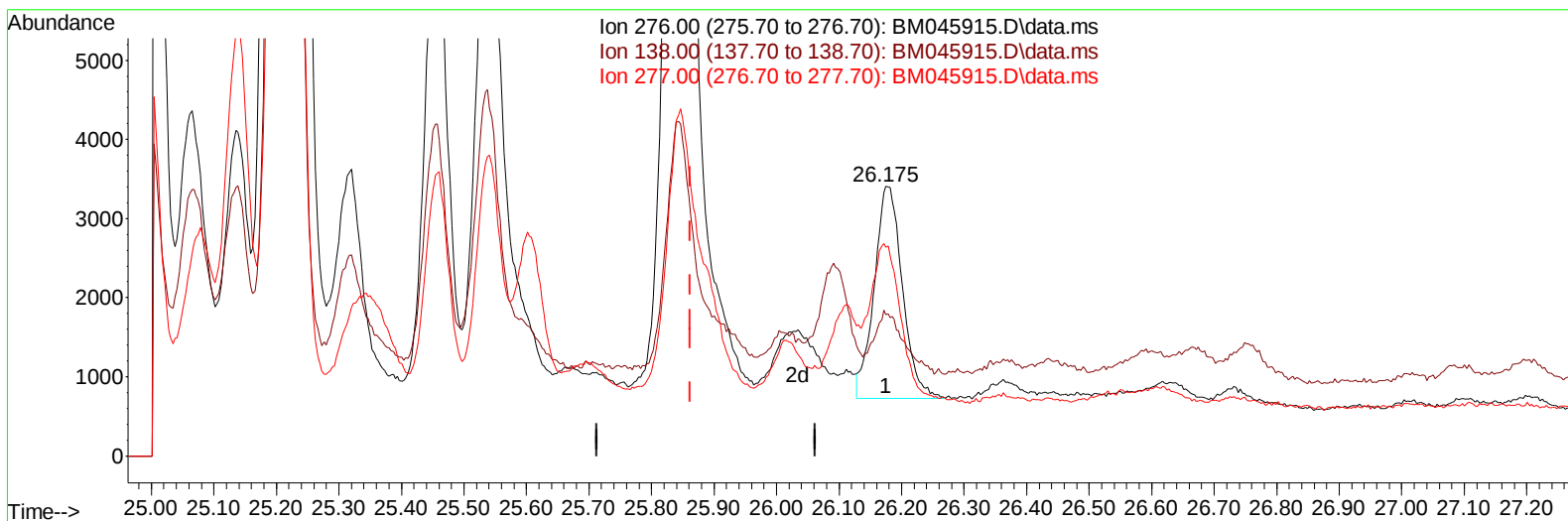
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
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TIC: BM045915.D\data.ms

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

26.175min (+ 0.312) 0.12 ng/u1

response 8356

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 26.20  | 52.42# |
| 277.00 | 25.60  | 77.39# |
| 0.00   | 0.00   | 0.00   |

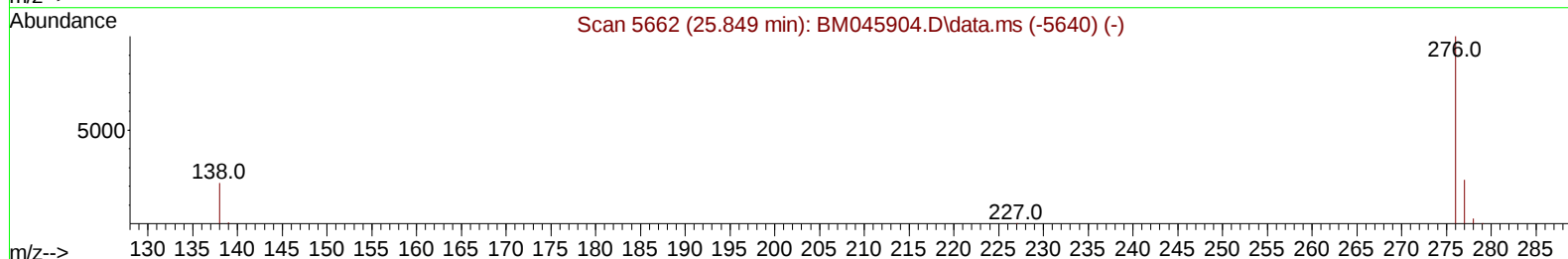
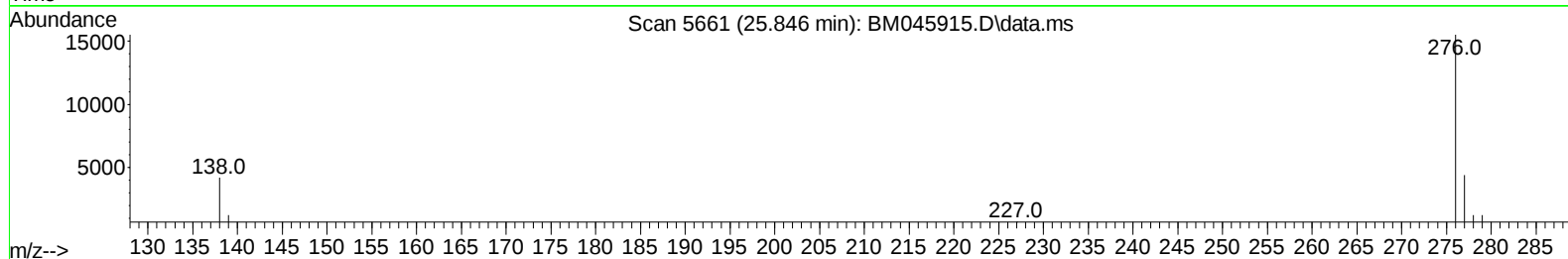
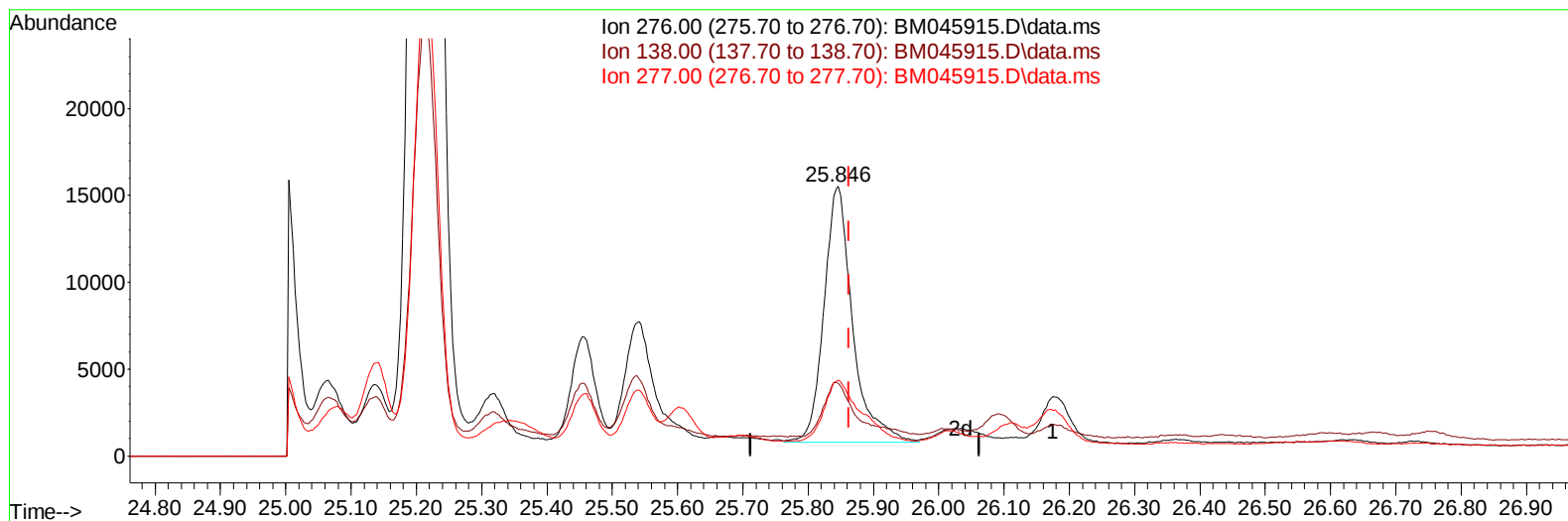
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045915.D  
Acq On : 08 Jun 2024 14:27  
Operator : MA/JU  
Sample : P2640-12  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C26

Manual IntegrationsAPPROVED

Quant Time: Jun 10 01:28:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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TIC: BM045915.D\data.ms

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

25.846min (-0.016) 0.65 ng/u1 m

response 44789

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 26.20  | 27.01  |
| 277.00 | 25.60  | 28.30  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045915.D  
 Acq On : 08 Jun 2024 14:27  
 Operator : MA/JU  
 Sample : P2640-12  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C26

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/10/2024  
 Supervised By :mohammad ahmed 06/13/2024

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| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.464  | 152  | 6565     | 0.400  | ng/ul | -0.02    |
| 4) Naphthalene-d8           | 10.231 | 136  | 22280    | 0.400  | ng/ul | -0.02    |
| 9) Acenaphthene-d10         | 14.108 | 164  | 12151    | 0.400  | ng/ul | -0.01    |
| 13) Phenanthrene-d10        | 16.849 | 188  | 28038m   | 0.400  | ng/ul | -0.02    |
| 17) Chrysene-d12            | 21.044 | 240  | 18135m   | 0.400  | ng/ul | 0.00     |
| 23) Perylene-d12            | 23.151 | 264  | 18600m   | 0.400  | ng/ul | -0.01    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 3) 1,4-Dioxane-d8           | 3.059  | 96   | 23298    | 3.116  | ng/ul | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.837 | 152  | 6709     | 0.209  | ng/ul | -0.01    |
| 18) Fluoranthene-d10        | 18.880 | 212  | 16334m   | 0.301  | ng/ul | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 5) Naphthalene              | 10.281 | 128  | 13147    | 0.226  | ng/ul | 98       |
| 7) 2-Methylnaphthalene      | 11.914 | 142  | 5066     | 0.136  | ng/ul | 99       |
| 8) 1-Methylnaphthalene      | 12.134 | 142  | 4538     | 0.112  | ng/ul | 100      |
| 10) Acenaphthylene          | 13.825 | 152  | 32877    | 0.595  | ng/ul | 99       |
| 11) Acenaphthene            | 14.168 | 153  | 19490    | 0.480  | ng/ul | 99       |
| 12) Fluorene                | 15.162 | 166  | 27453    | 0.605  | ng/ul | 98       |
| 15) Phenanthrene            | 16.891 | 178  | 699000m  | 8.879  | ng/ul |          |
| 16) Anthracene              | 16.980 | 178  | 114948m  | 1.712  | ng/ul |          |
| 19) Fluoranthene            | 18.913 | 202  | 1564308m | 21.632 | ng/ul |          |
| 20) Pyrene                  | 19.275 | 202  | 1102268m | 14.612 | ng/ul |          |
| 21) Benzo(a)anthracene      | 21.026 | 228  | 597549m  | 8.977  | ng/ul |          |
| 22) Chrysene                | 21.079 | 228  | 665016m  | 9.176  | ng/ul |          |
| 24) Benzo(b)fluoranthene    | 22.531 | 252  | 794087m  | 12.872 | ng/ul |          |
| 25) Benzo(k)fluoranthene    | 22.566 | 252  | 262776m  | 3.876  | ng/ul |          |
| 26) Benzo(a)pyrene          | 23.060 | 252  | 310787m  | 5.066  | ng/ul |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.212 | 276  | 277065m  | 3.492  | ng/ul |          |
| 28) Dibenzo(a,h)anthracene  | 25.219 | 278  | 84004m   | 1.325  | ng/ul |          |
| 29) Benzo(g,h,i)perylene    | 25.846 | 276  | 44789m   | 0.655  | ng/ul |          |
| -----                       |        |      |          |        |       |          |

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

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BNA\_M  
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A4C26

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