

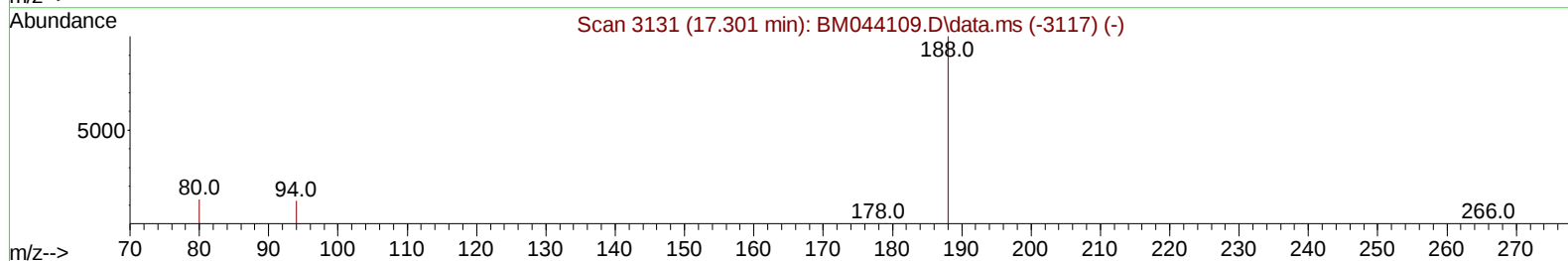
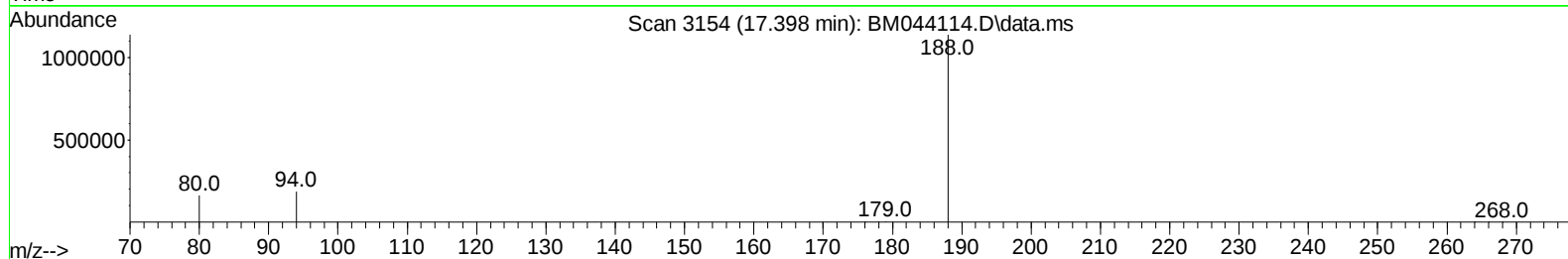
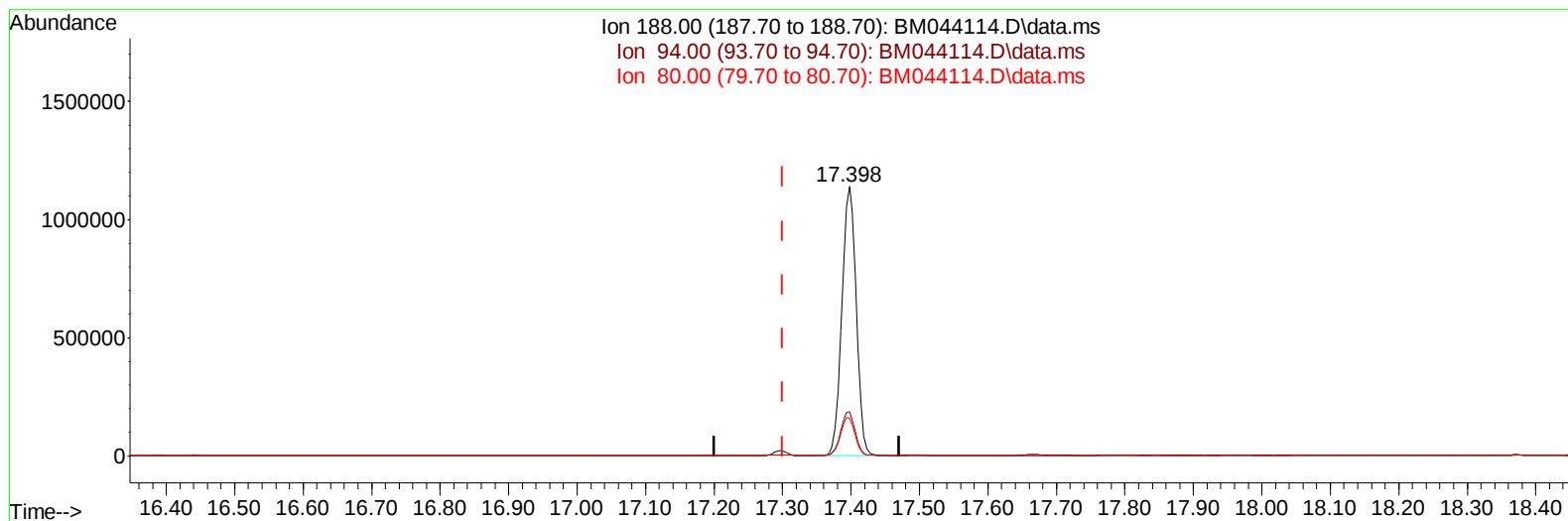
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(13) Phenanthrene-d10 (I)

17.398min (+ 0.097) 0.40 ng/u1

response 1674438

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 12.40  | 16.38# |
| 80.00  | 13.40  | 14.17  |
| 0.00   | 0.00   | 0.00   |

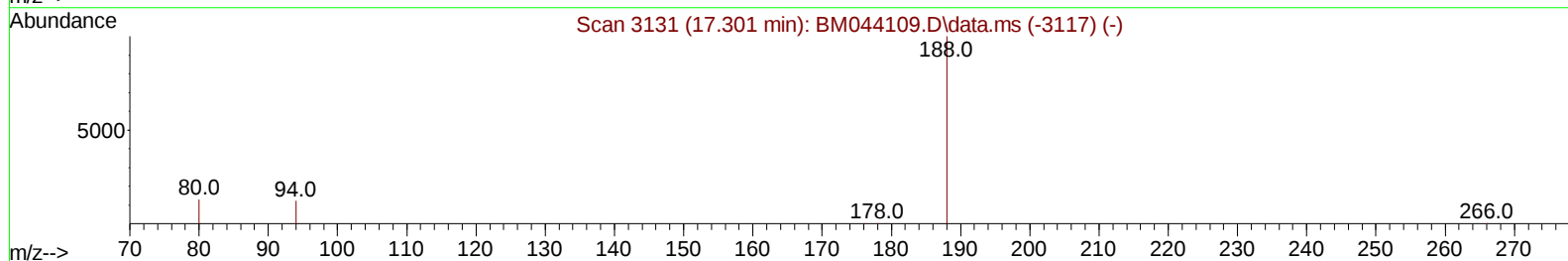
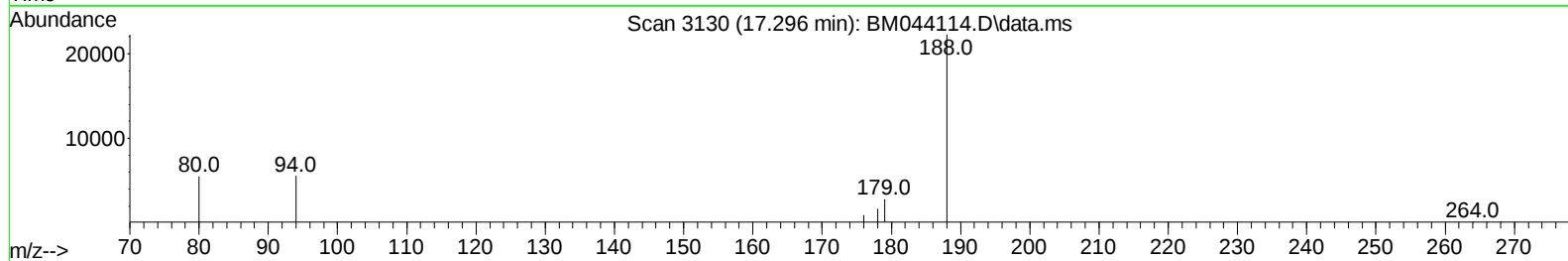
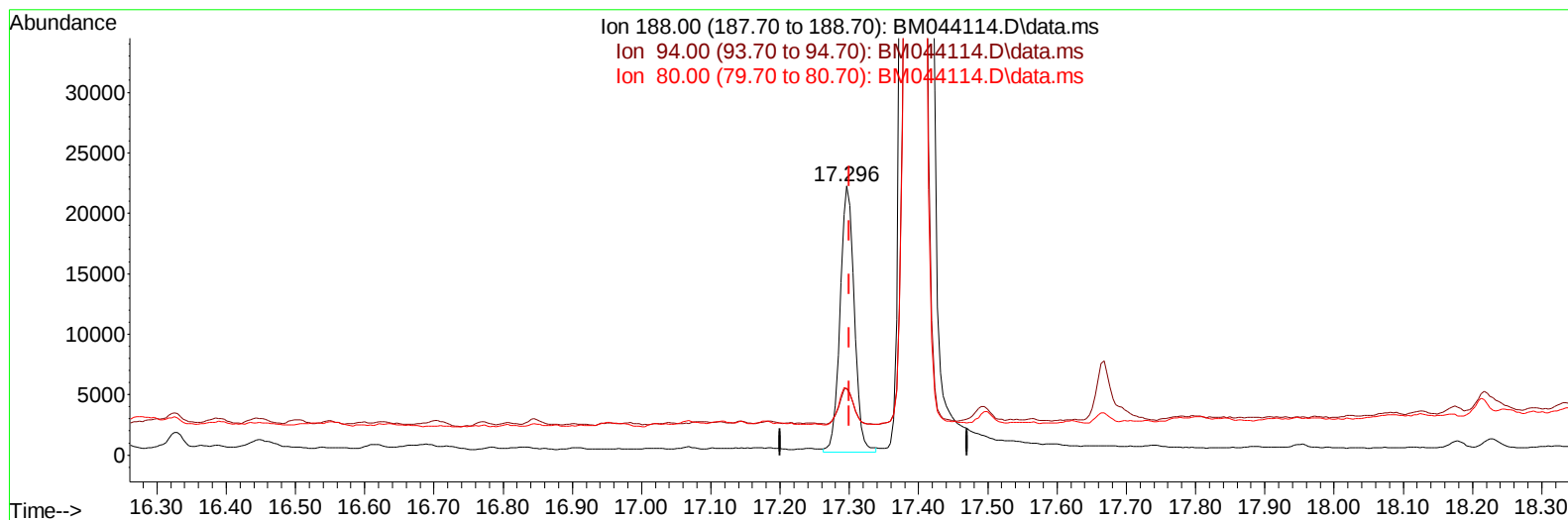
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(13) Phenanthrene-d10 (I)

17.296min (-0.004) 0.40 ng/u1 m

response 31390

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 12.40  | 24.95# |
| 80.00  | 13.40  | 24.72# |
| 0.00   | 0.00   | 0.00   |

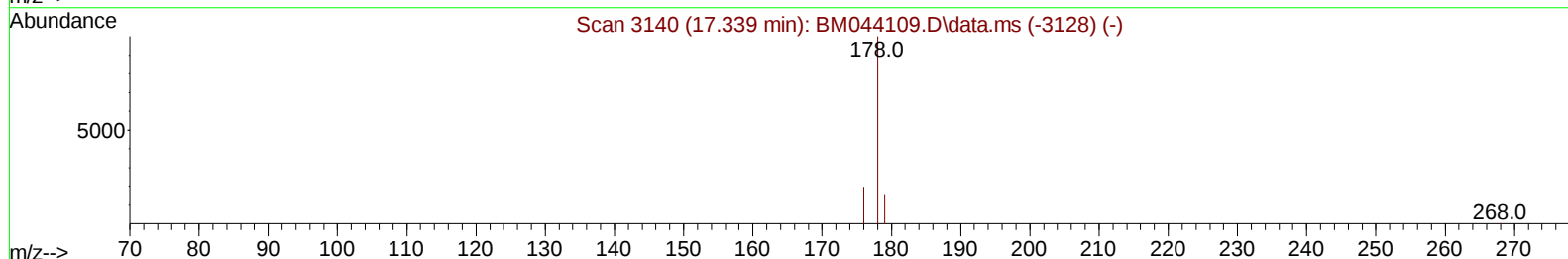
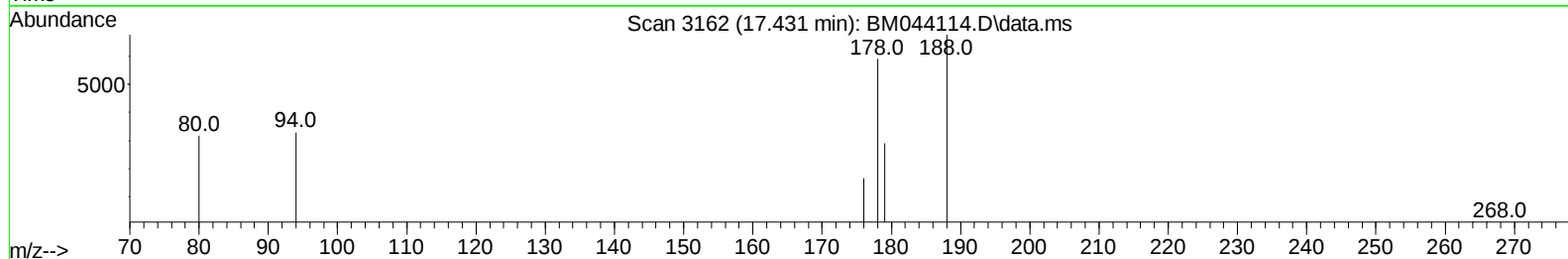
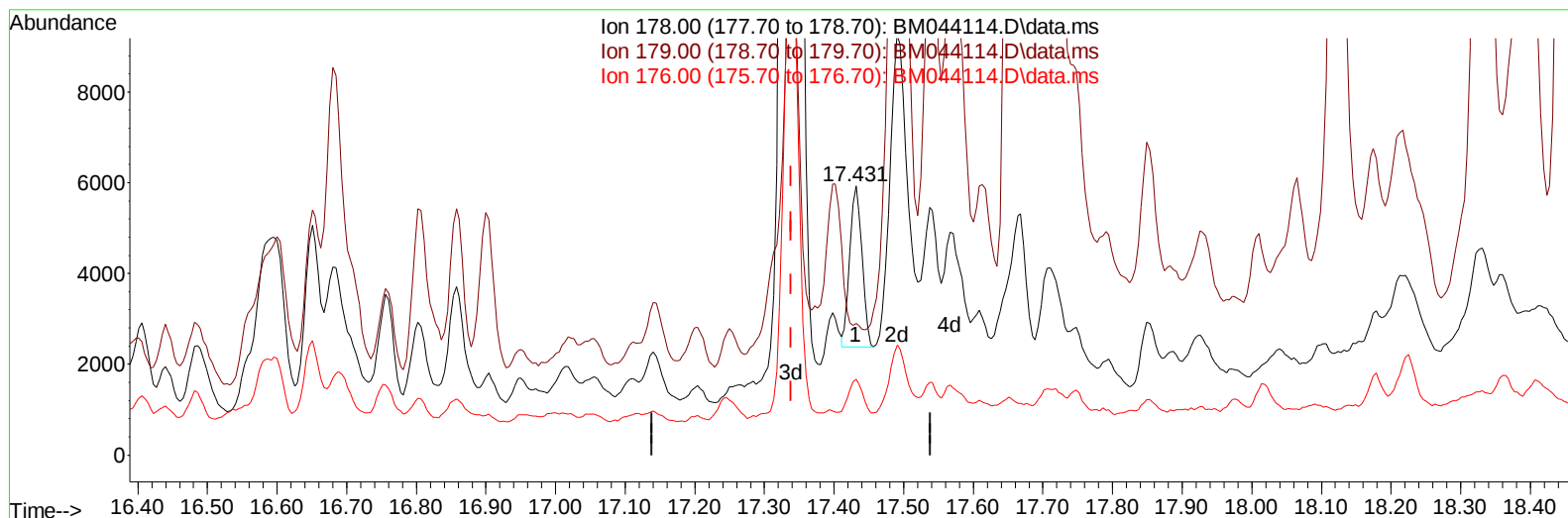
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
COFM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
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Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(15) Phenanthrene

17.431min (+ 0.093) 0.04 ng/u1

response 4307

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.80  | 48.95# |
| 176.00 | 20.00  | 28.10# |
| 0.00   | 0.00   | 0.00   |

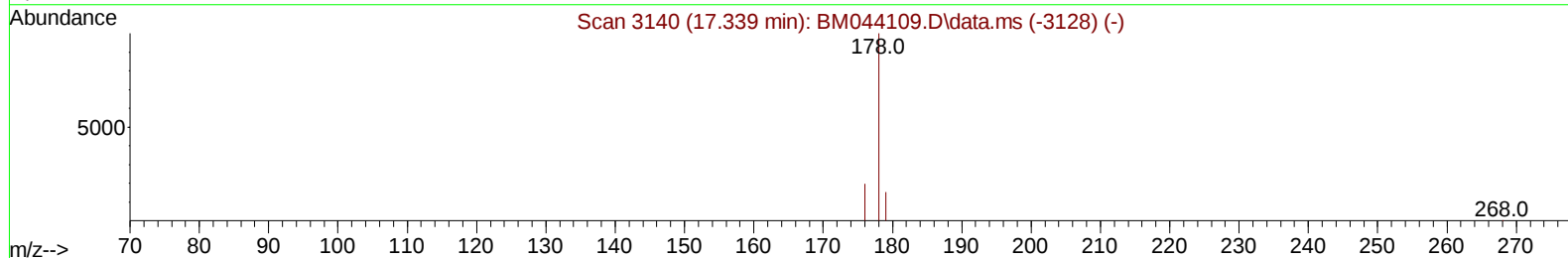
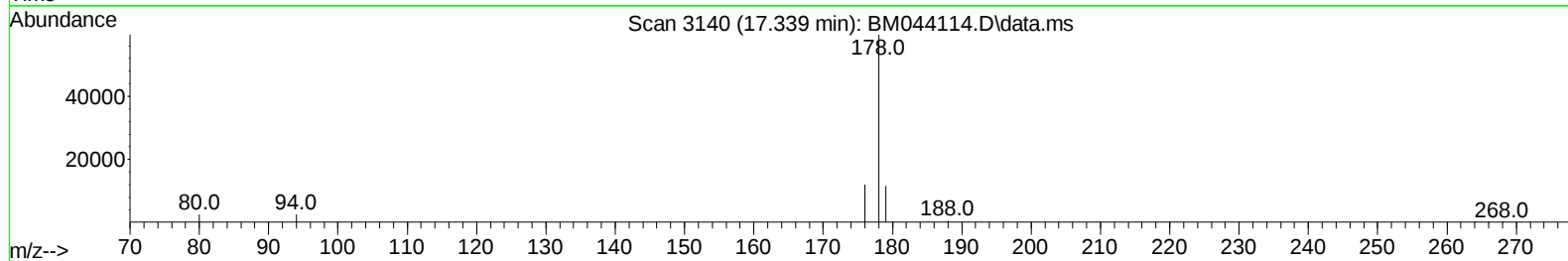
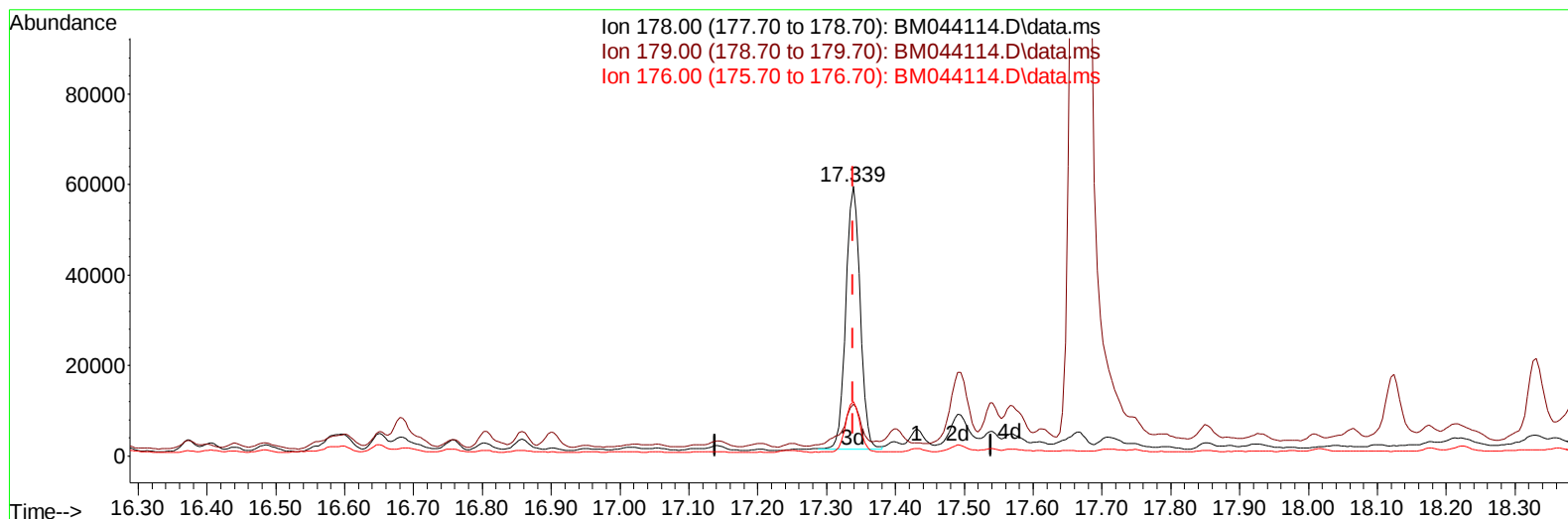
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
 Data File : BM044114.D  
 Acq On : 15 Feb 2024 23:24  
 Operator : MA/JU  
 Sample : P1329-11  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 15 13:40:24 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
 Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(15) Phenanthrene

17.339min (+ 0.000) 0.84 ng/ul m

response 83698

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.80  | 19.32# |
| 176.00 | 20.00  | 20.19  |
| 0.00   | 0.00   | 0.00   |

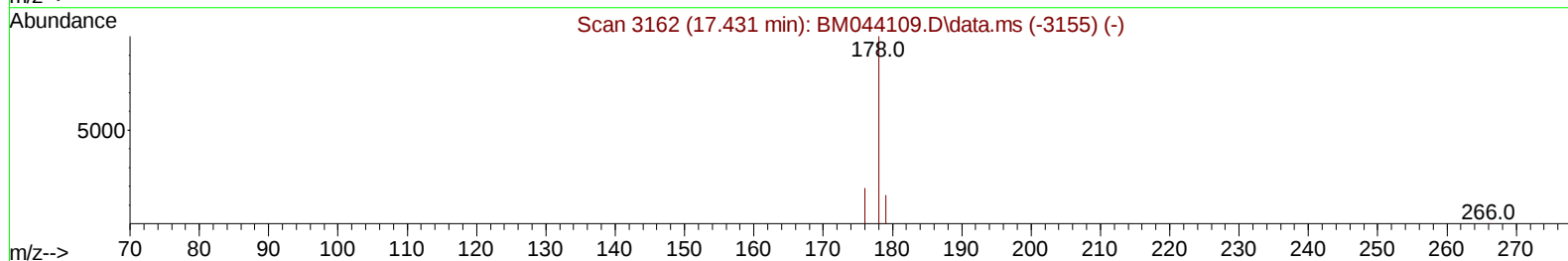
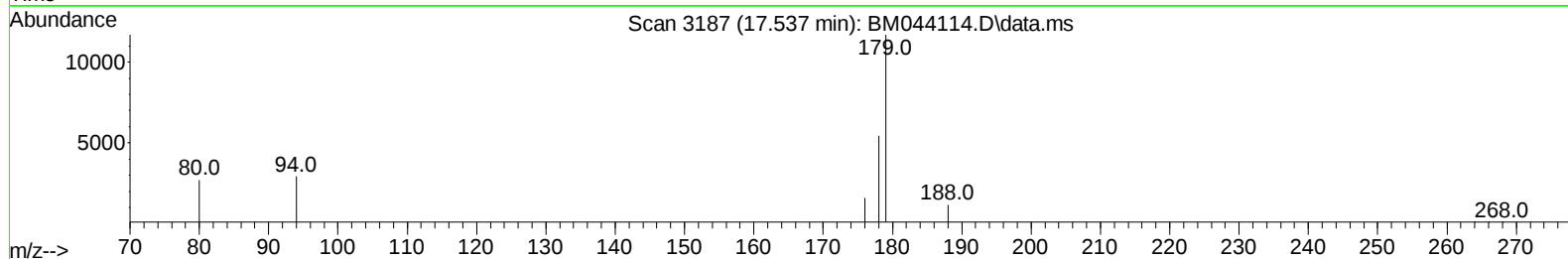
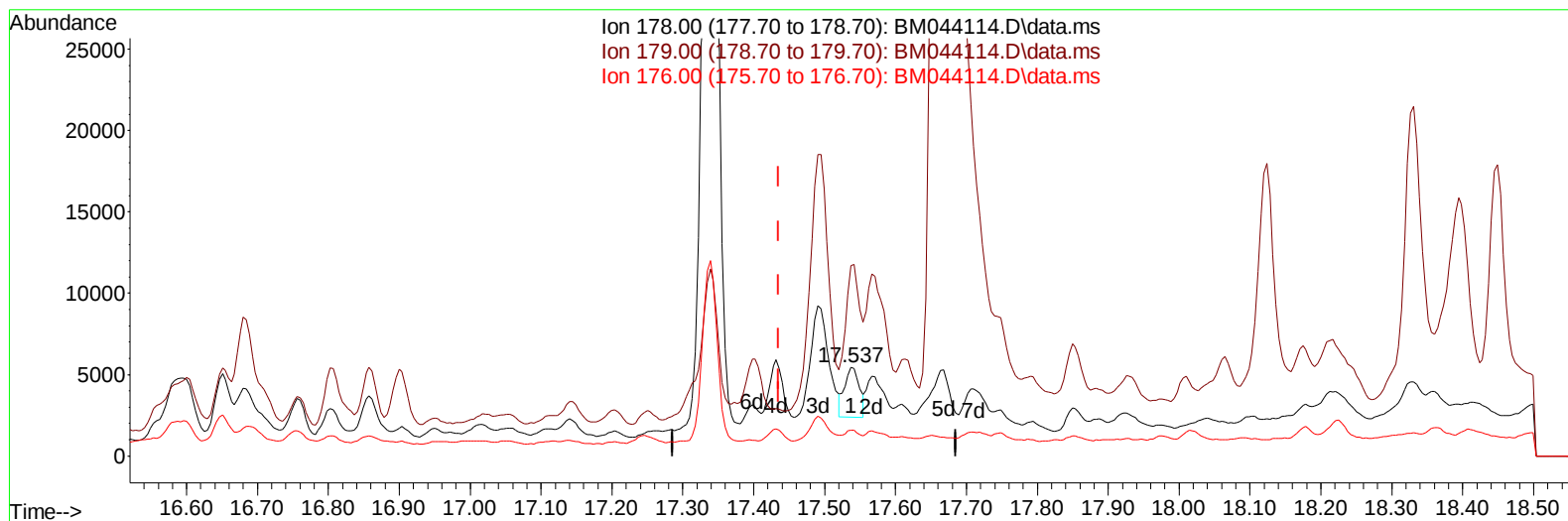
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
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Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(16) Anthracene

17.537min (+ 0.101) 0.05 ng/u1

response 4453

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 178.00 | 100.00 | 100.00  |
| 179.00 | 16.00  | 214.31# |
| 176.00 | 19.10  | 29.25#  |
| 0.00   | 0.00   | 0.00    |

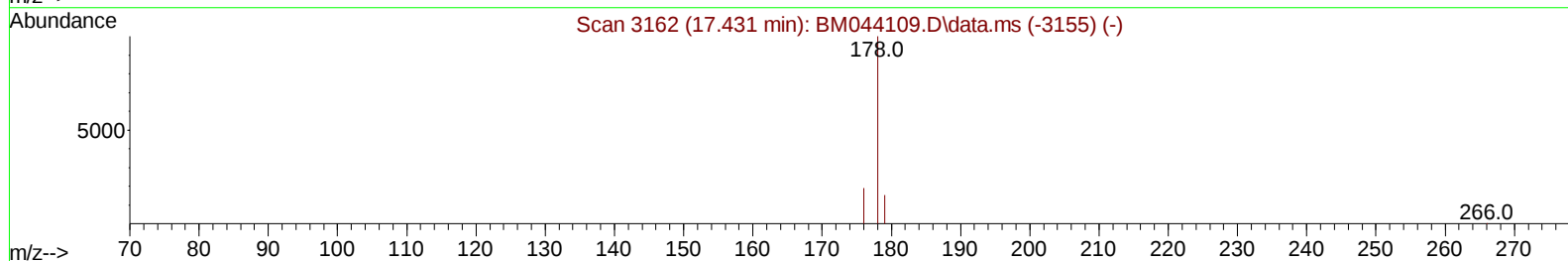
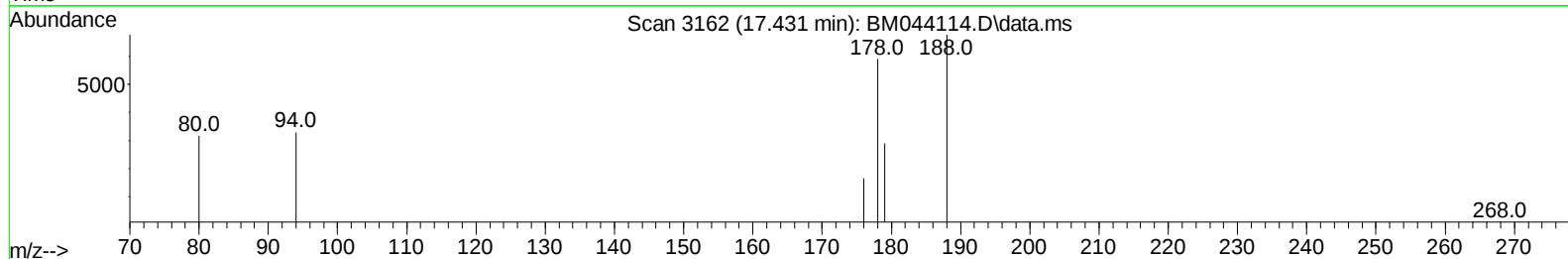
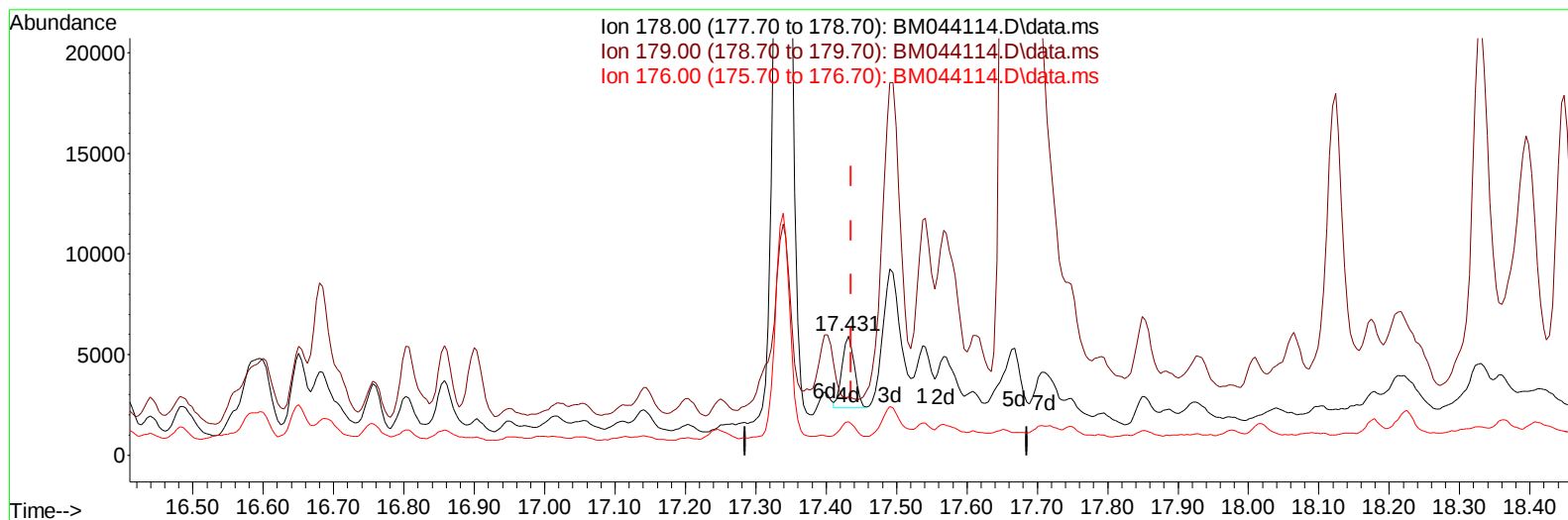
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
COFM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(16) Anthracene

17.431min (-0.004) 0.04 ng/u1 m

response 4354

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 16.00  | 48.95# |
| 176.00 | 19.10  | 28.10# |
| 0.00   | 0.00   | 0.00   |

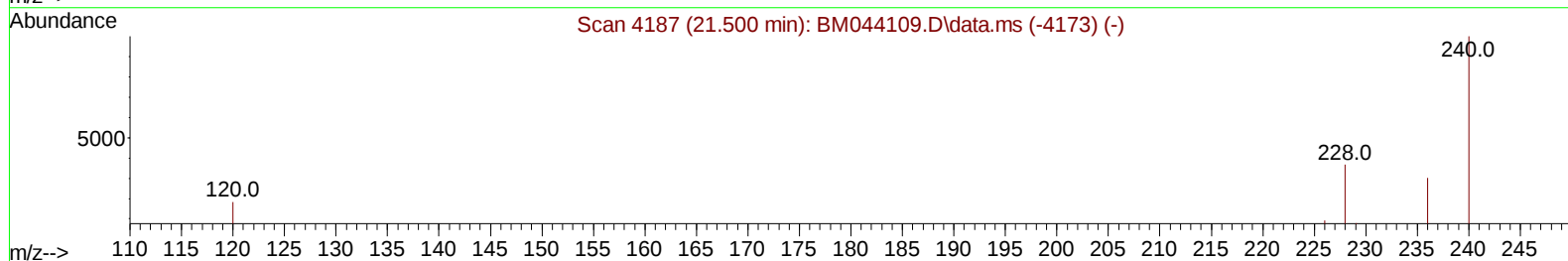
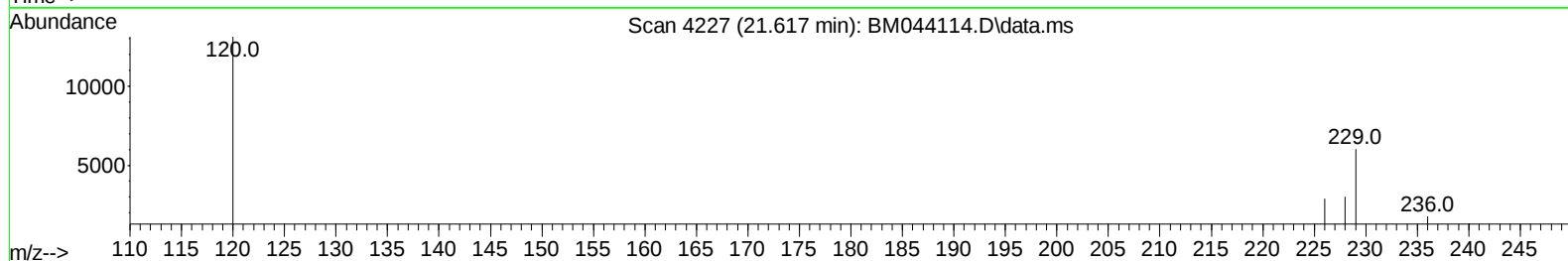
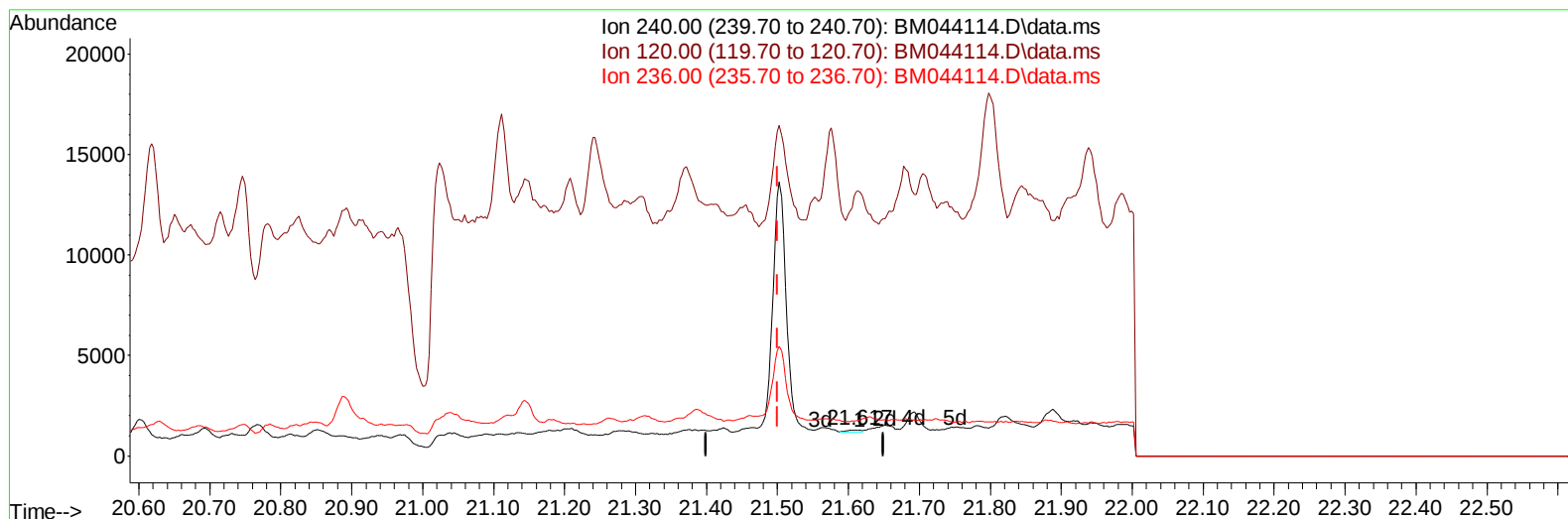
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
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Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(17) Chrysene-d12

21.617min (+ 0.117) 0.40 ng/u1

response 139

| Ion    | Exp%   | Act%     |
|--------|--------|----------|
| 240.00 | 100.00 | 100.00   |
| 120.00 | 20.50  | 1010.33# |
| 236.00 | 30.60  | 137.93#  |
| 0.00   | 0.00   | 0.00     |

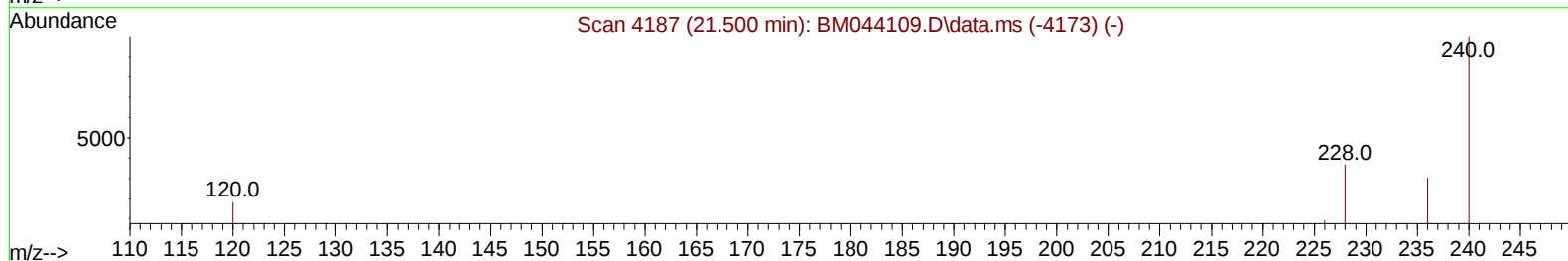
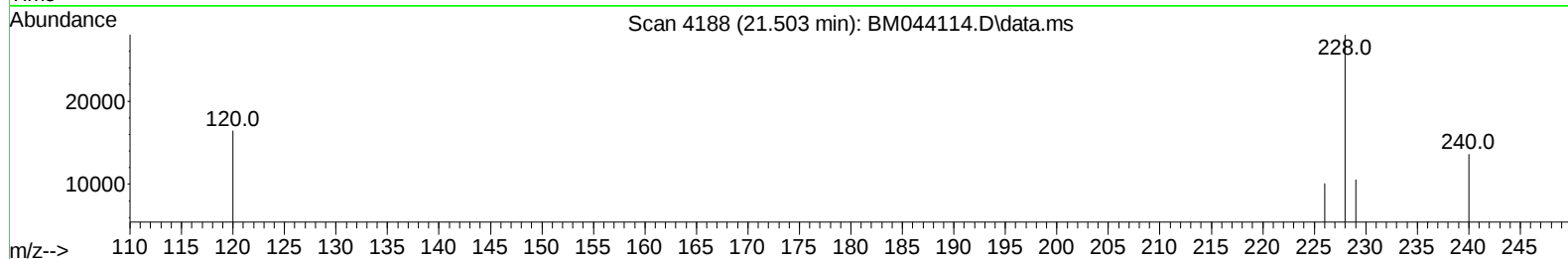
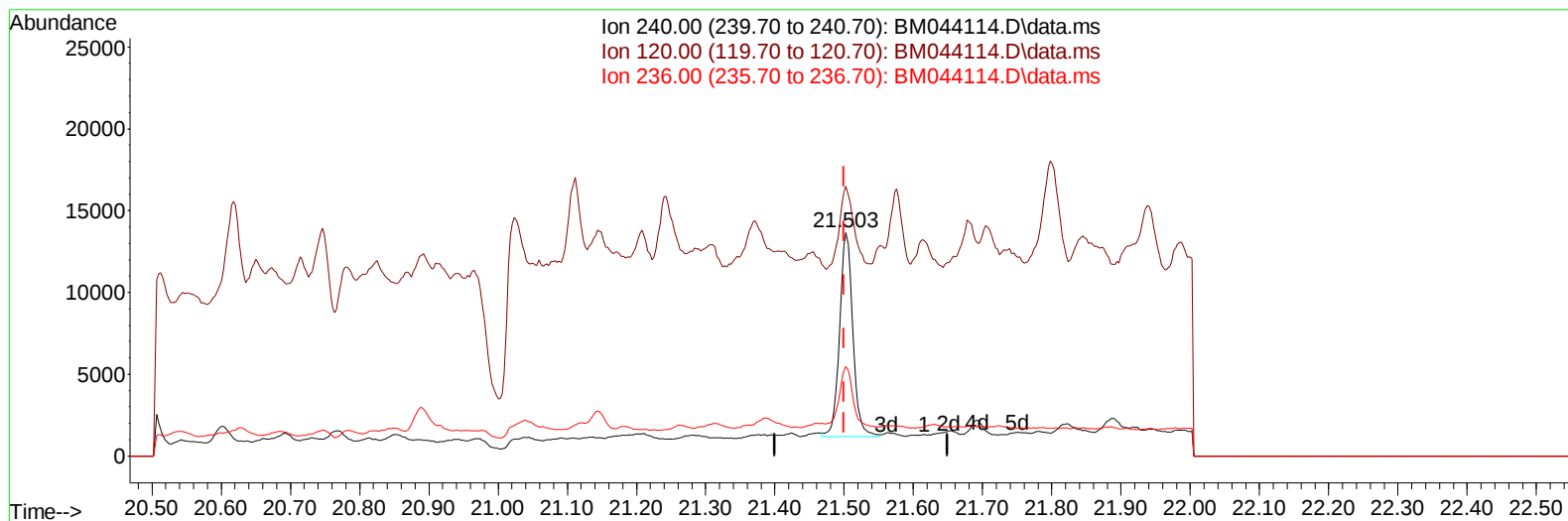
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(17) Chrysene-d12

21.503min (+ 0.003) 0.40 ng/ul m

response 16472

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 240.00 | 100.00 | 100.00  |
| 120.00 | 20.50  | 120.65# |
| 236.00 | 30.60  | 39.93#  |
| 0.00   | 0.00   | 0.00    |

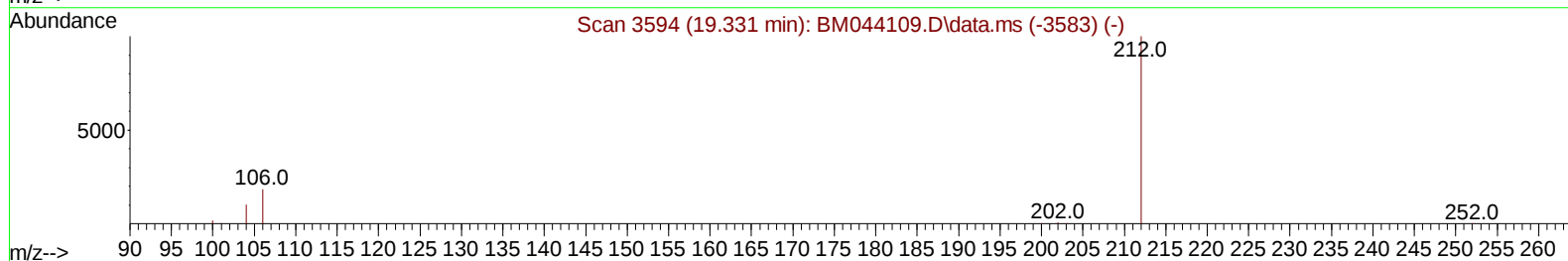
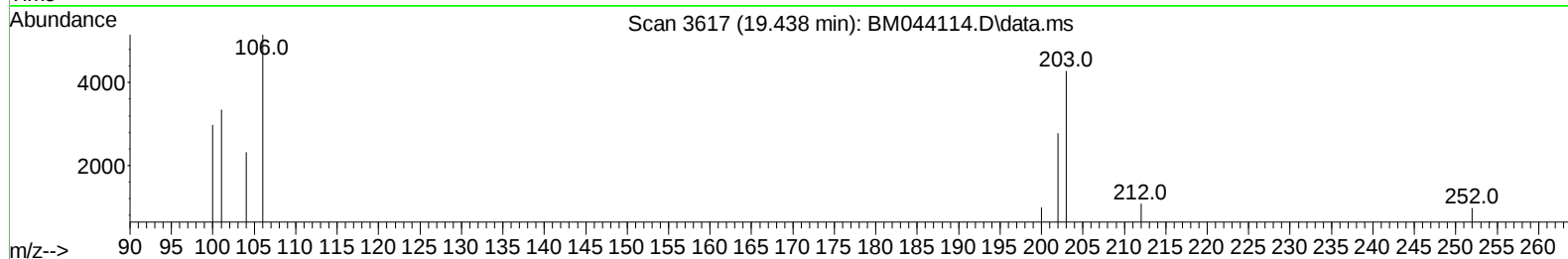
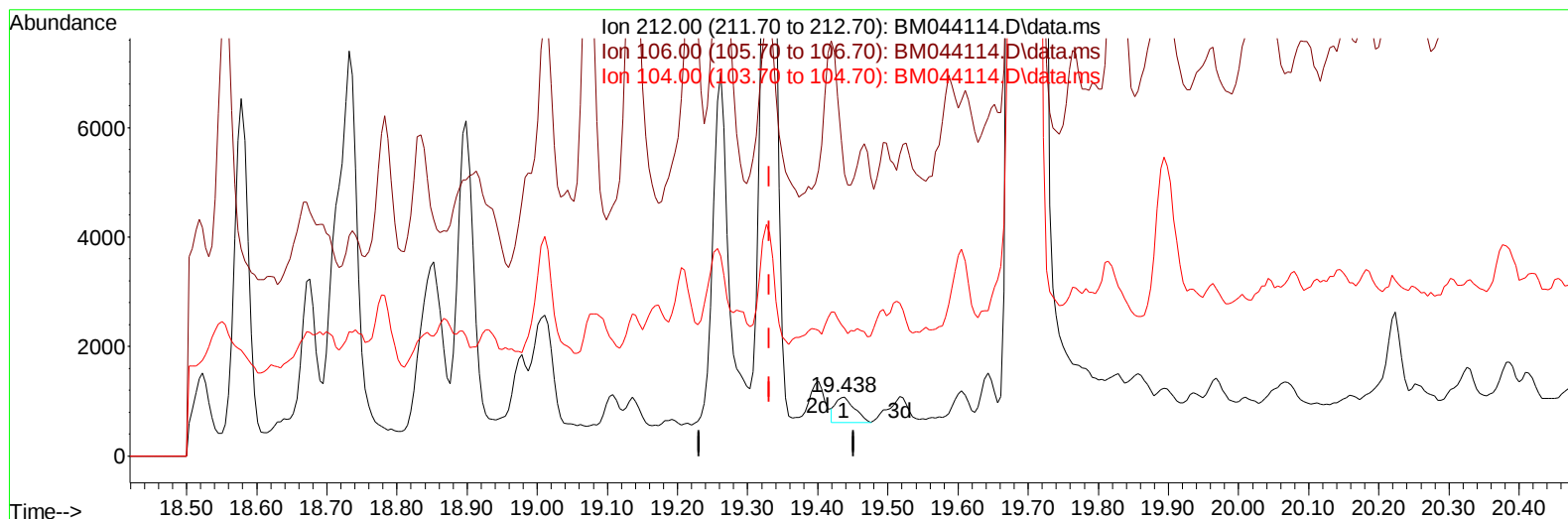
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
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QLast Update : Thu Feb 15 13:40:24 2024  
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TIC: BM044114.D\data.ms

(18) Fluoranthene-d10 (SURR)

19.438min (+ 0.107) 0.02 ng/u1

response 863

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 212.00 | 100.00 | 100.00  |
| 106.00 | 18.40  | 507.65# |
| 104.00 | 10.10  | 110.43# |
| 0.00   | 0.00   | 0.00    |

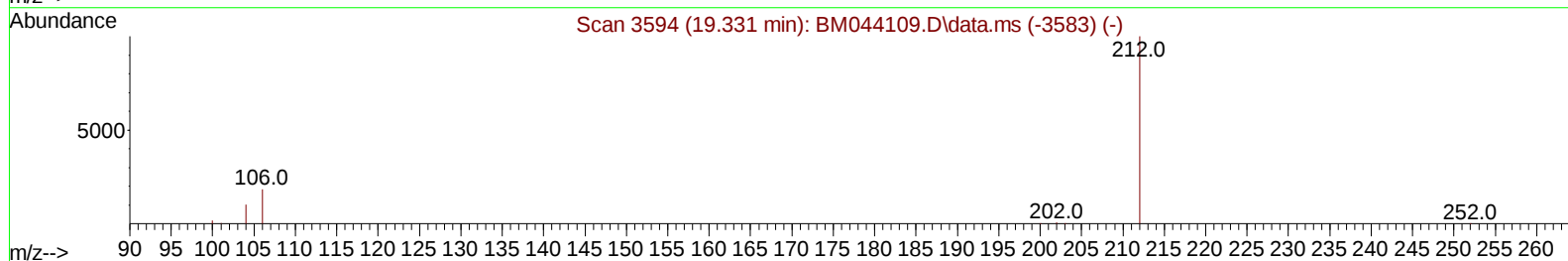
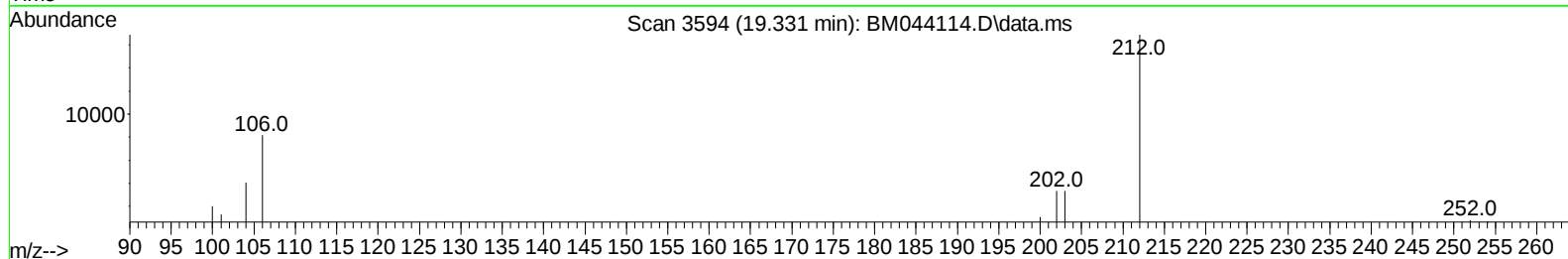
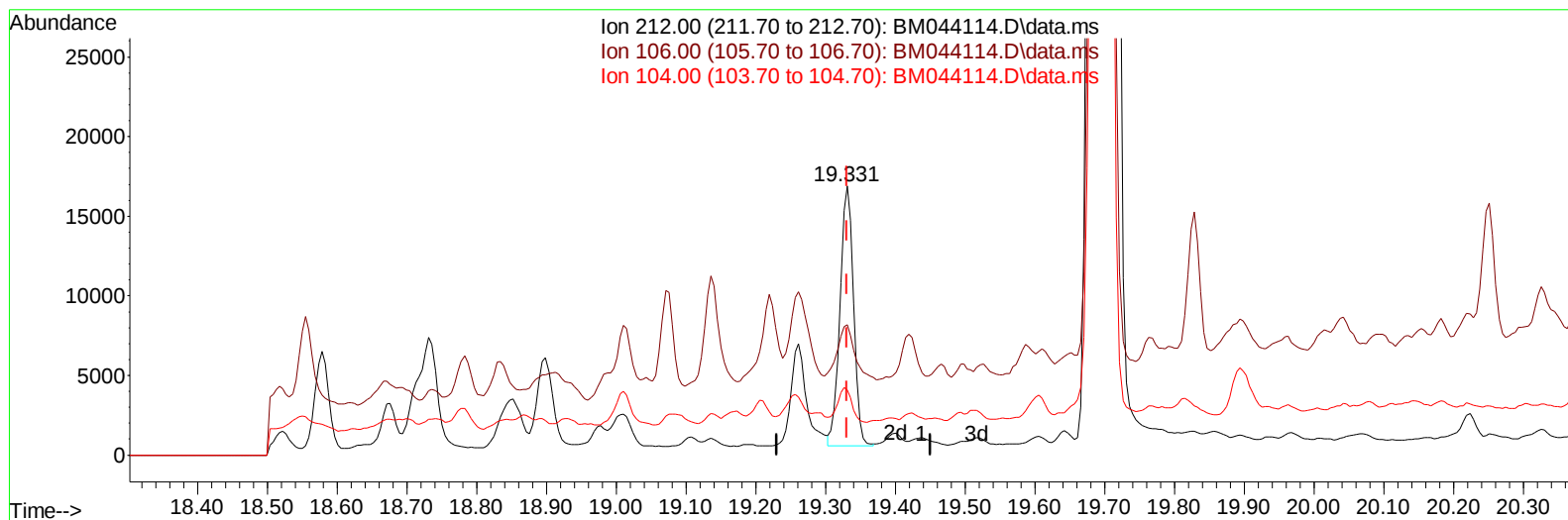
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(18) Fluoranthene-d10 (SURR)

19.331min (+ 0.000) 0.45 ng/ul m

response 22186

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 212.00 | 100.00 | 100.00 |
| 106.00 | 18.40  | 19.75  |
| 104.00 | 10.10  | 4.30#  |
| 0.00   | 0.00   | 0.00   |

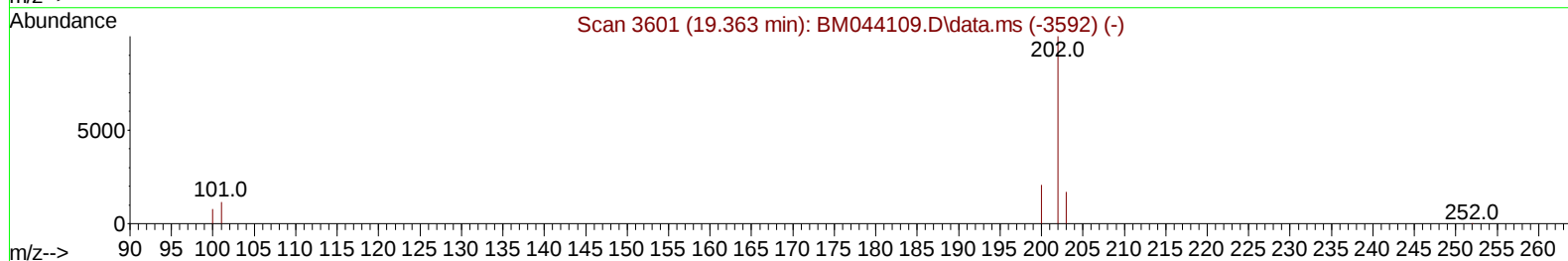
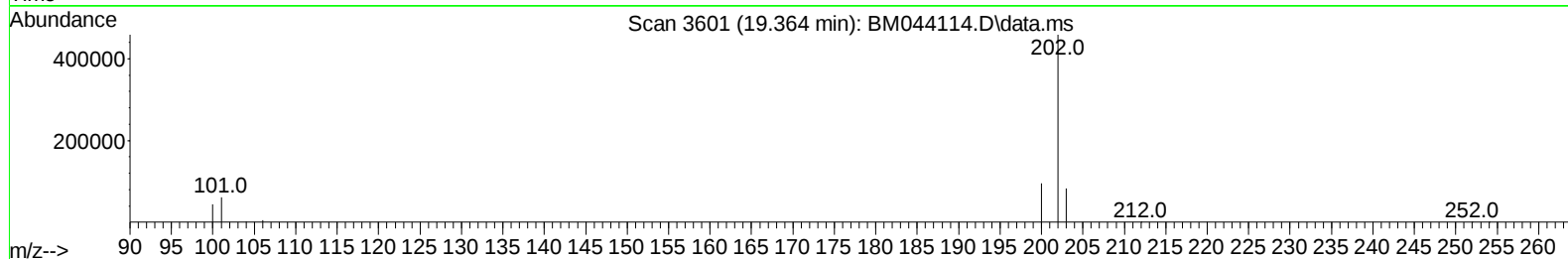
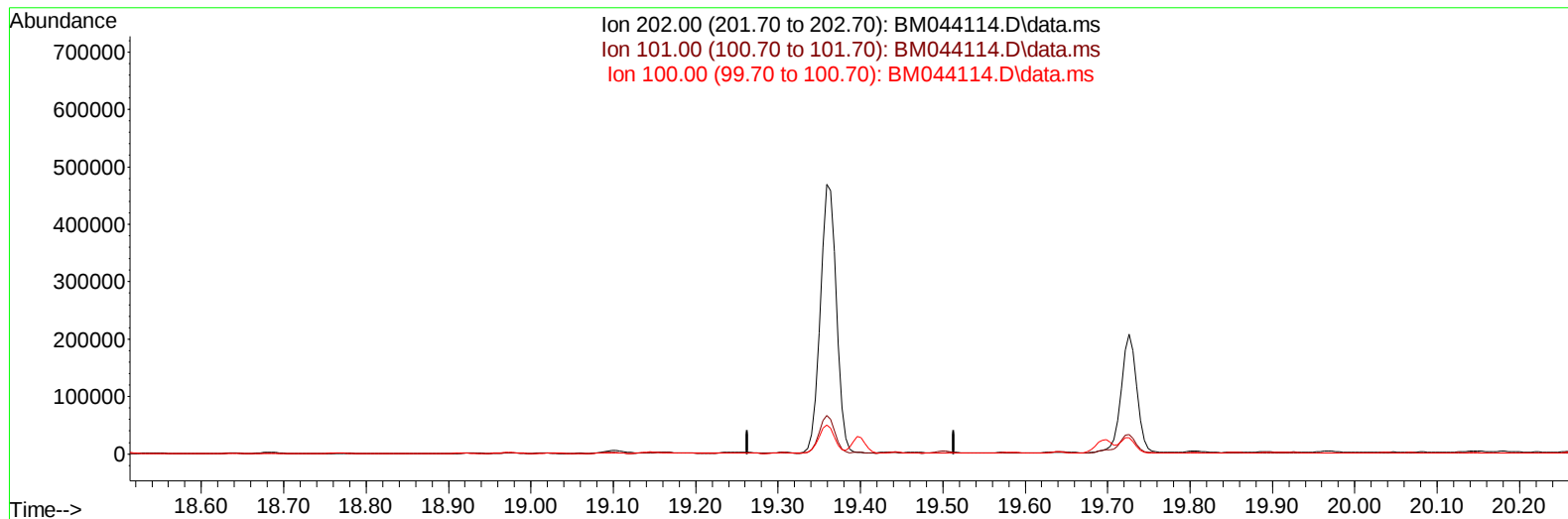
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
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Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(19) Fluoranthene (C)

19.363min (-19.363) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 202.00 | 100.00 | 0.00  |
| 101.00 | 12.20  | 0.00# |
| 100.00 | 8.70   | 0.00# |
| 0.00   | 0.00   | 0.00  |

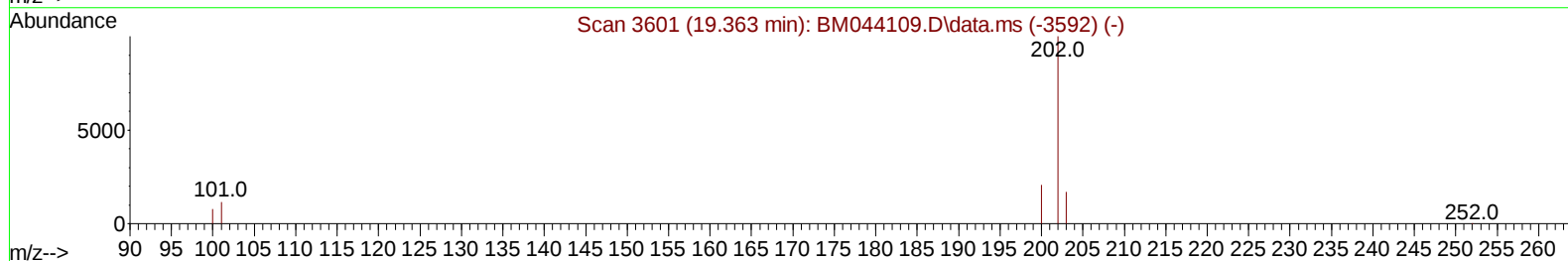
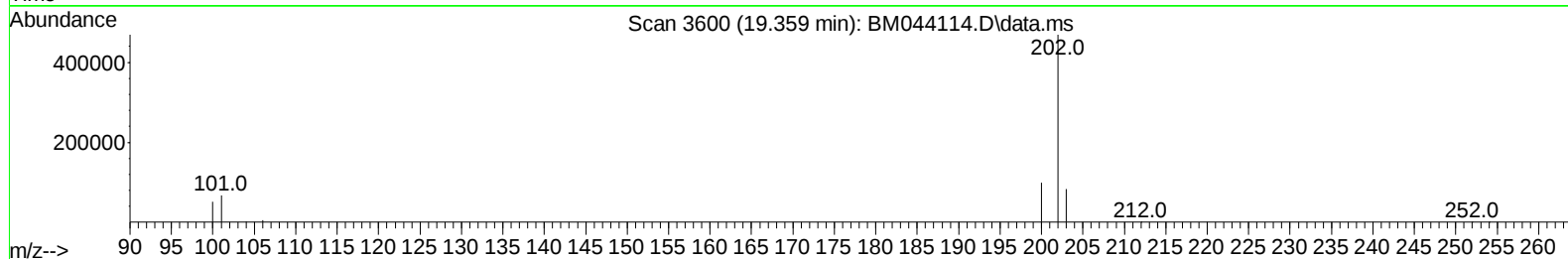
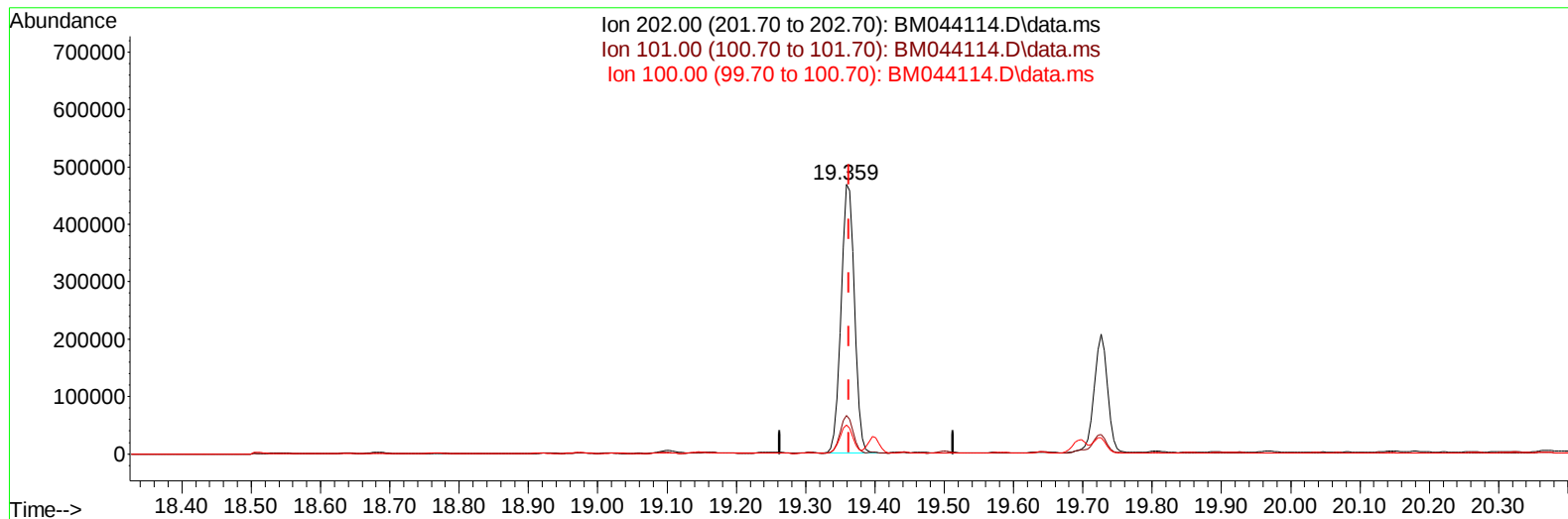
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
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QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(19) Fluoranthene (C)

19.359min (-0.005) 8.49 ng/u1 m

response 637497

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 12.20  | 14.38  |
| 100.00 | 8.70   | 10.84# |
| 0.00   | 0.00   | 0.00   |

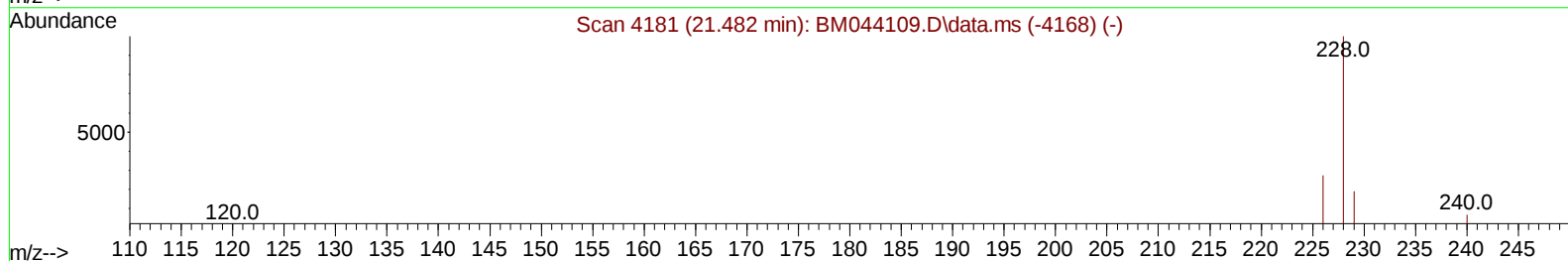
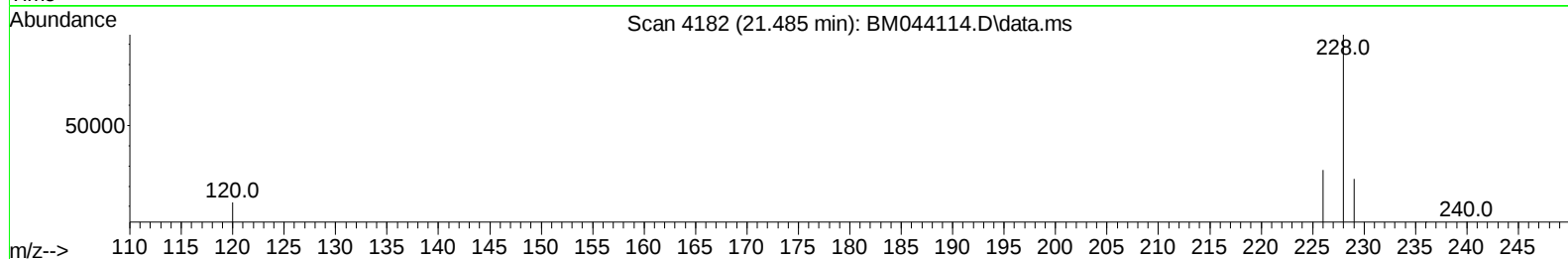
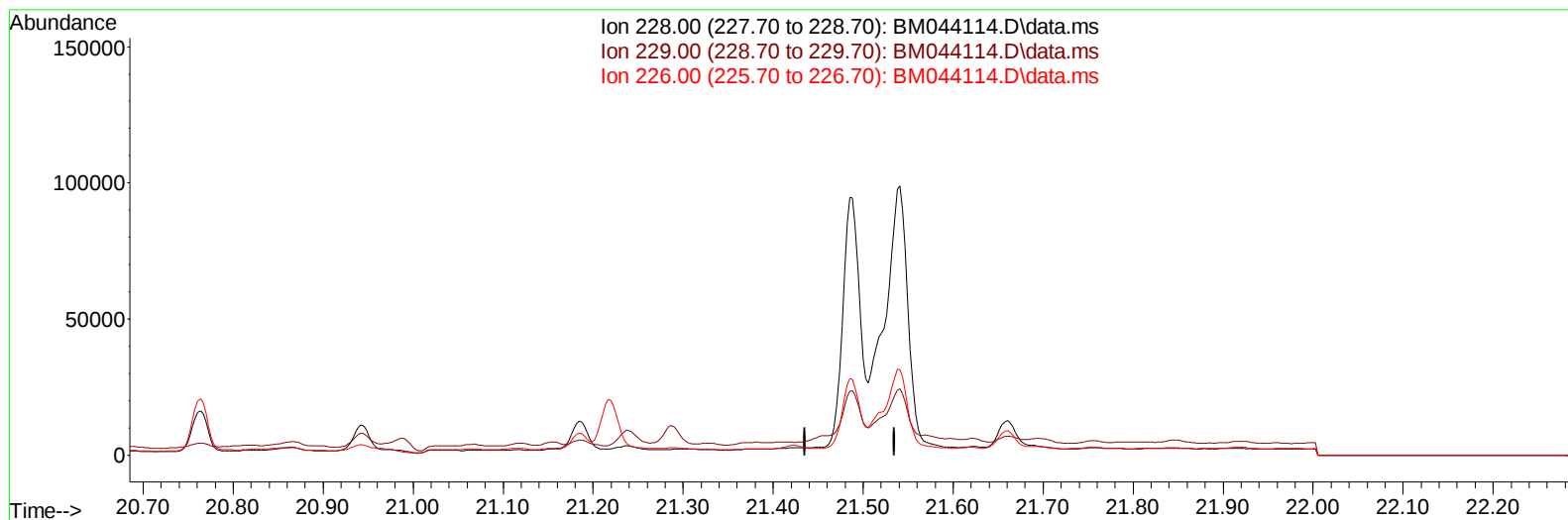
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(21) Benzo(a)anthracene

21.485min (-21.485) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 228.00 | 100.00 | 0.00  |
| 229.00 | 19.30  | 0.00# |
| 226.00 | 27.60  | 0.00# |
| 0.00   | 0.00   | 0.00  |

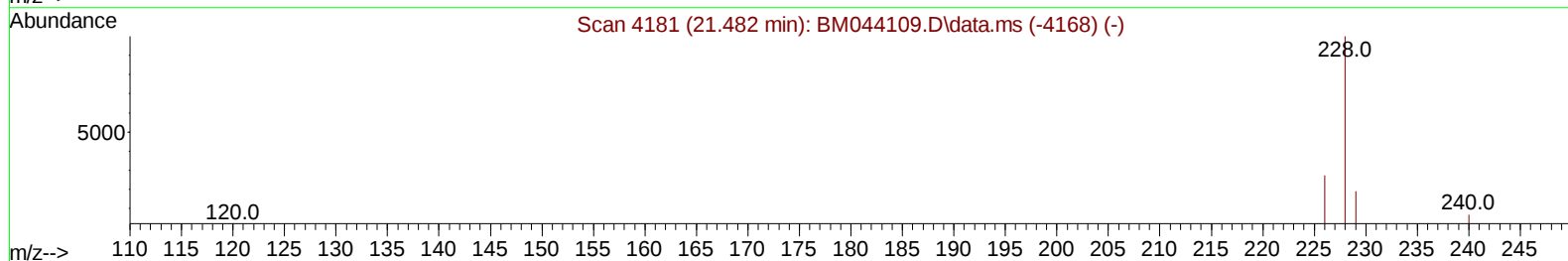
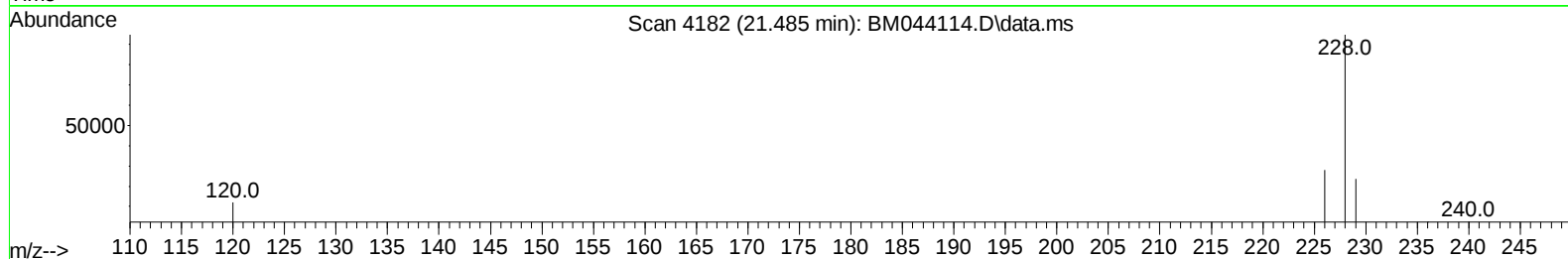
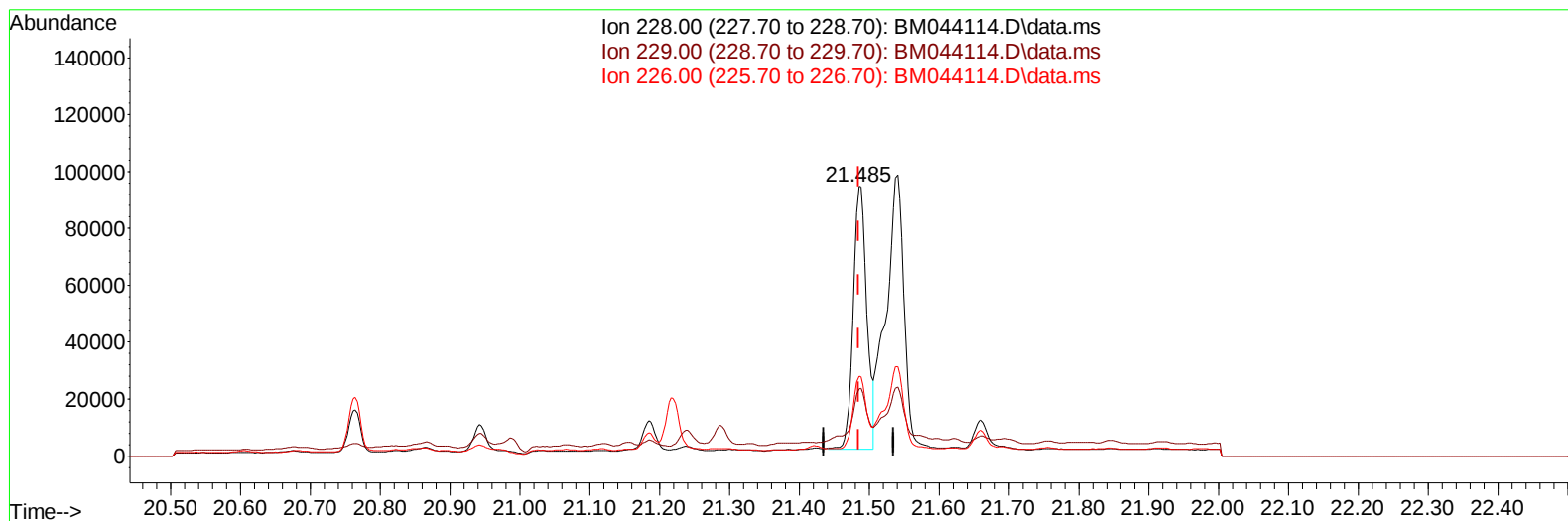
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(21) Benzo(a)anthracene

21.485min (+ 0.000) 1.67 ng/ul m

response 125827

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 229.00 | 19.30  | 24.81# |
| 226.00 | 27.60  | 29.69  |
| 0.00   | 0.00   | 0.00   |

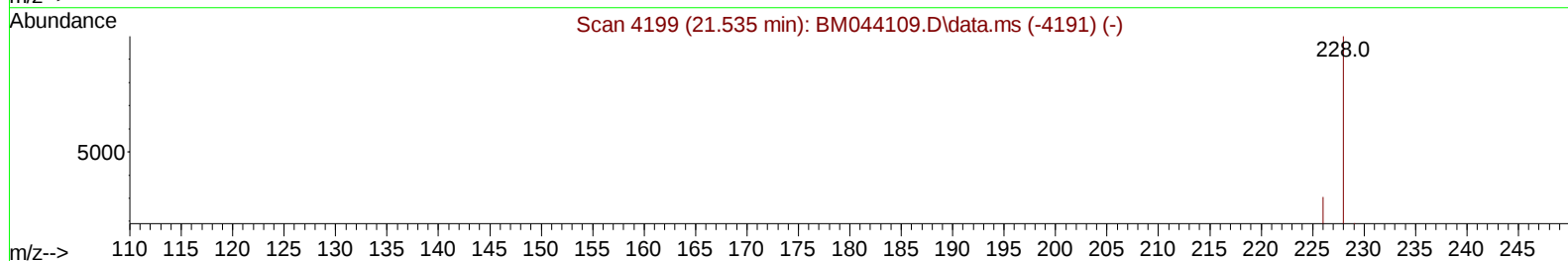
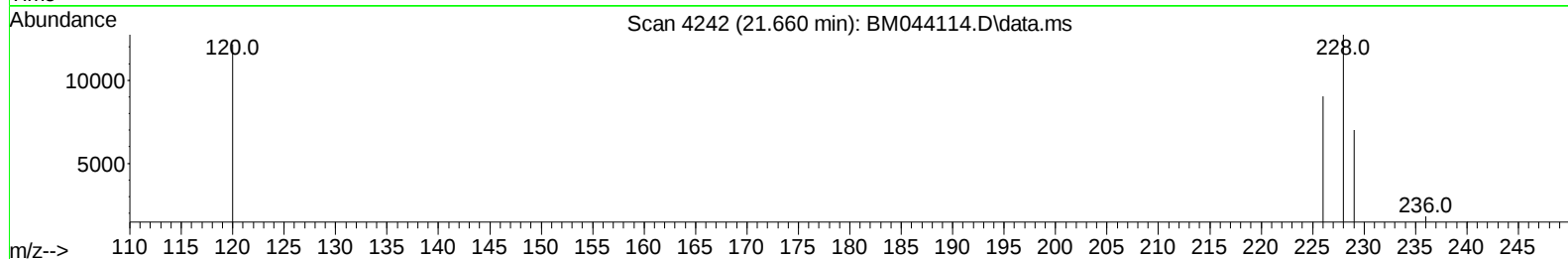
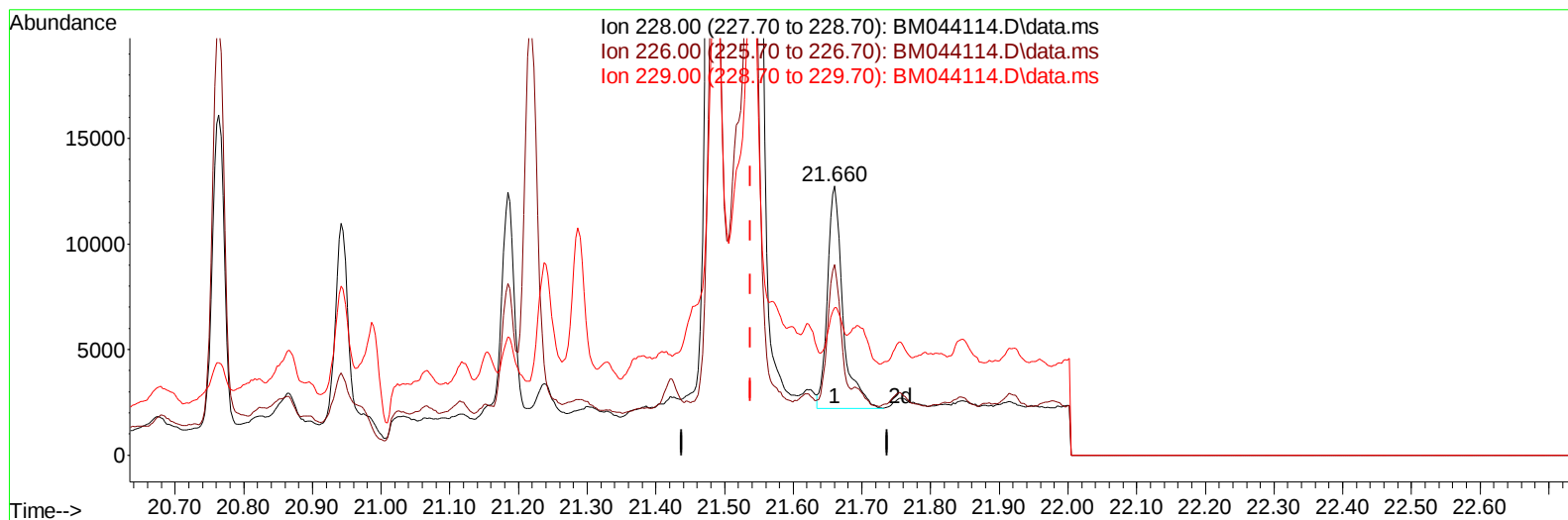
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(22) Chrysene

21.660min (+ 0.123) 0.20 ng/u1

response 16463

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.20  | 70.88# |
| 229.00 | 19.70  | 54.90# |
| 0.00   | 0.00   | 0.00   |

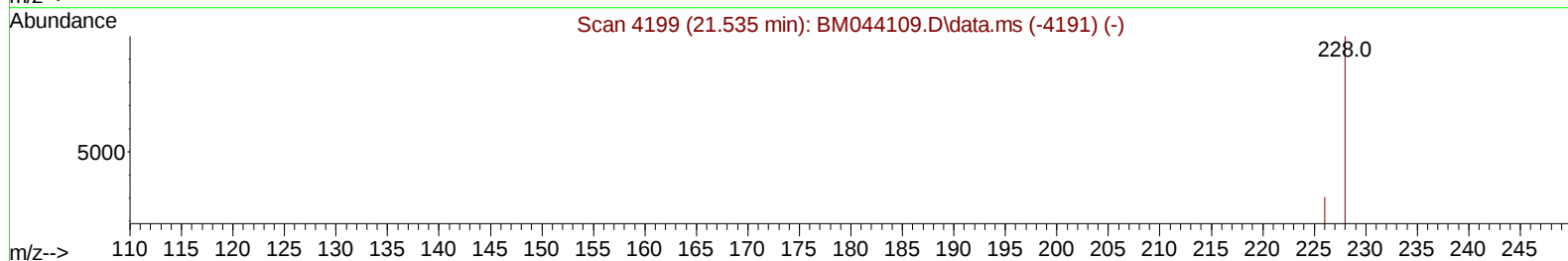
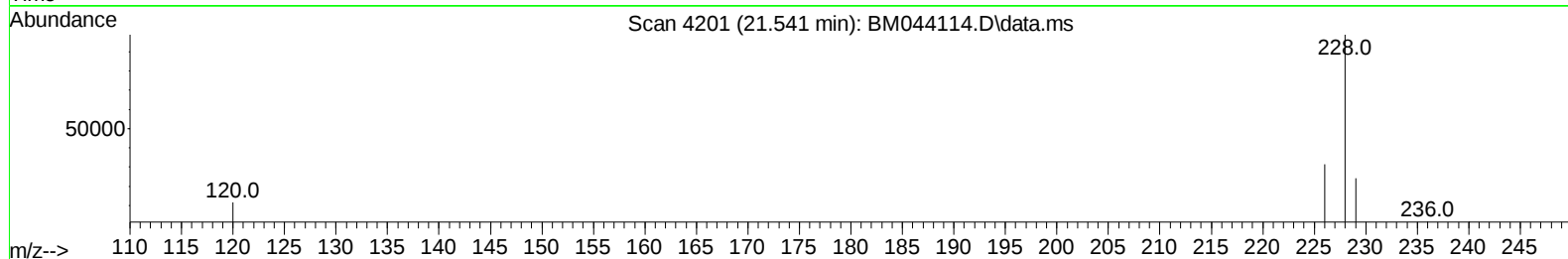
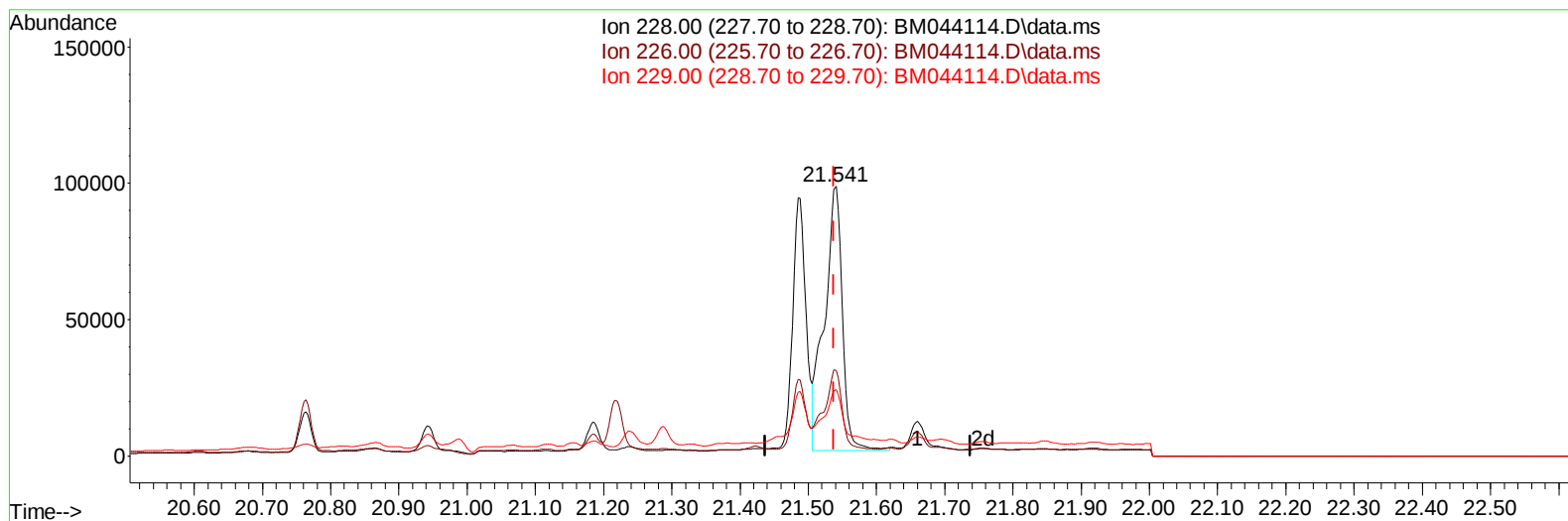
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(22) Chrysene

21.541min (+ 0.003) 2.18 ng/ul m

response 177600

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.20  | 31.68  |
| 229.00 | 19.70  | 24.62# |
| 0.00   | 0.00   | 0.00   |

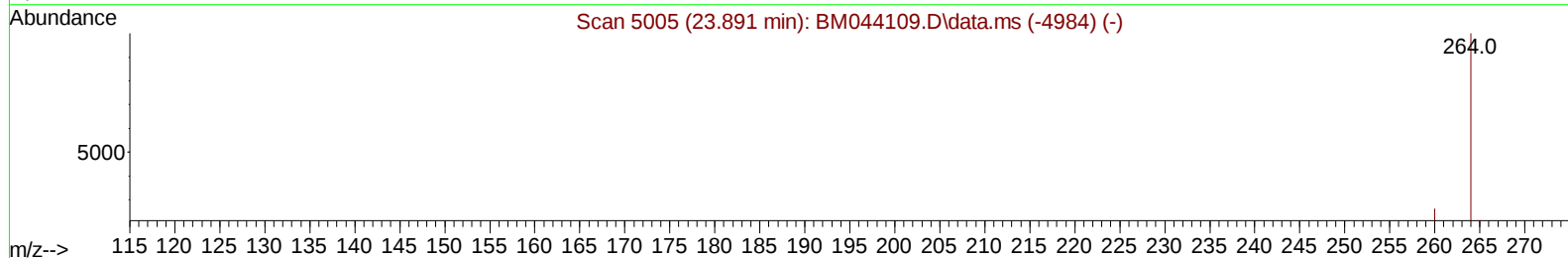
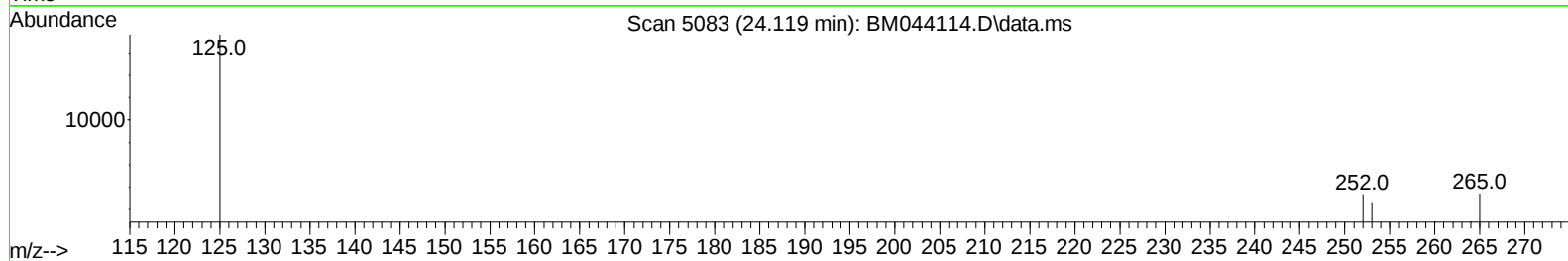
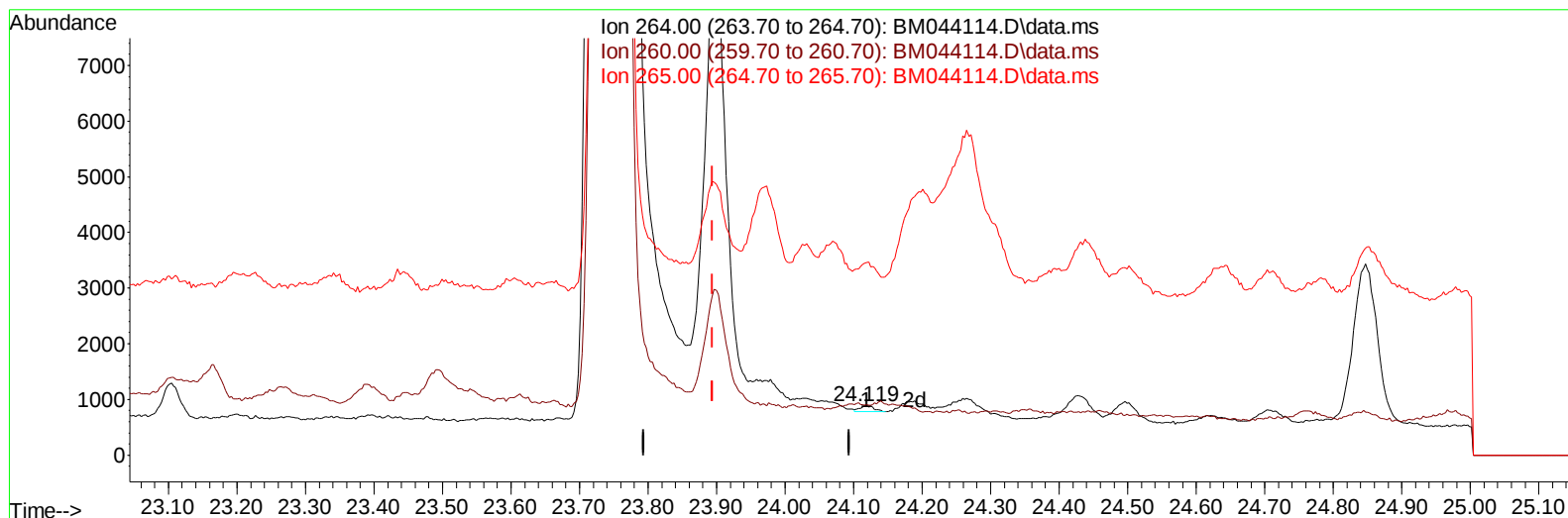
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
 Data File : BM044114.D  
 Acq On : 15 Feb 2024 23:24  
 Operator : MA/JU  
 Sample : P1329-11  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 15 13:40:24 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
 Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

**(23) Perylene-d12 (I)**

**24.119min (+ 0.225) 0.40 ng/u1**

**response 152**

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 264.00 | 100.00 | 100.00  |
| 260.00 | 27.00  | 102.02# |
| 265.00 | 45.40  | 387.88# |
| 0.00   | 0.00   | 0.00    |

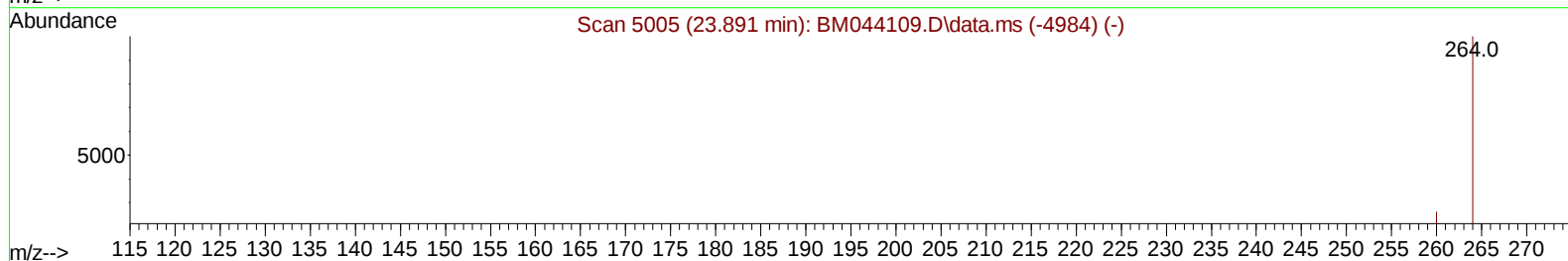
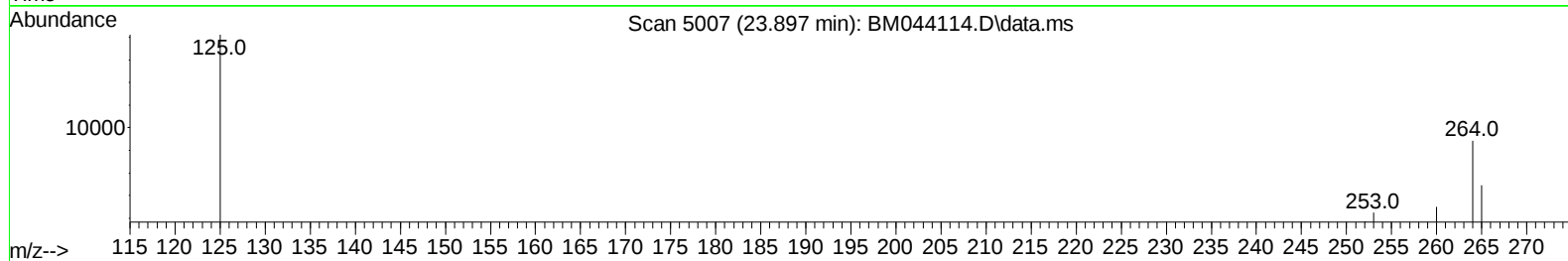
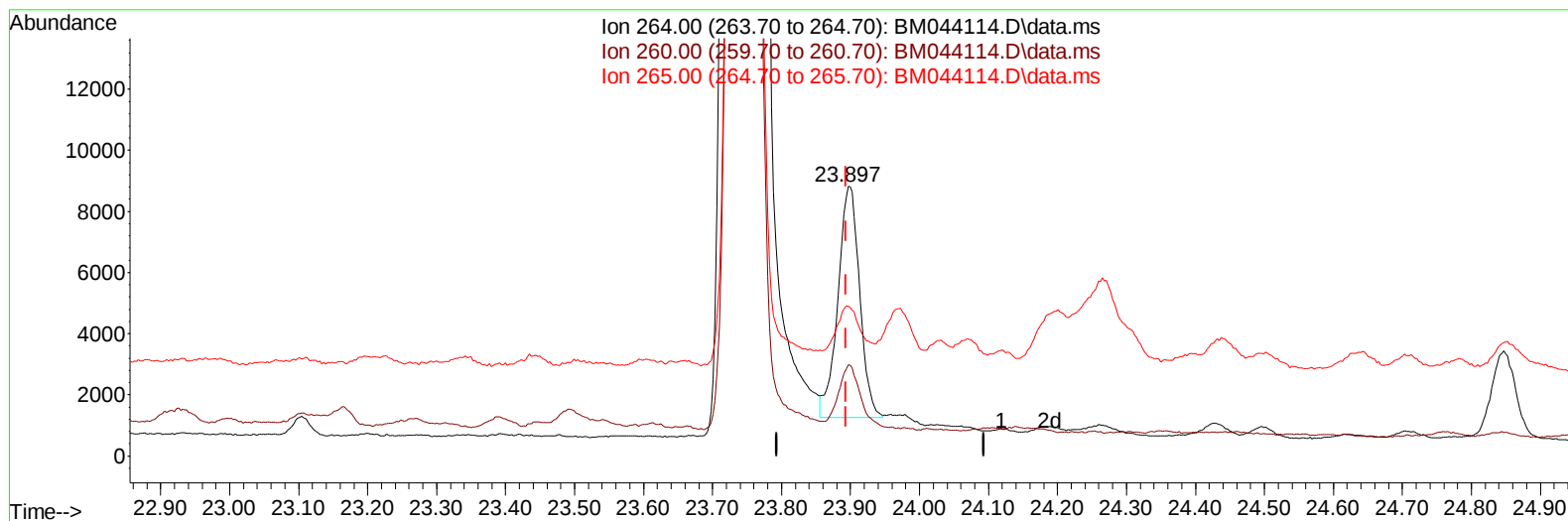
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(23) Perylene-d12 (I)

23.897min (+ 0.003) 0.40 ng/ul m

response 16437

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 27.00  | 33.77# |
| 265.00 | 45.40  | 55.65# |
| 0.00   | 0.00   | 0.00   |

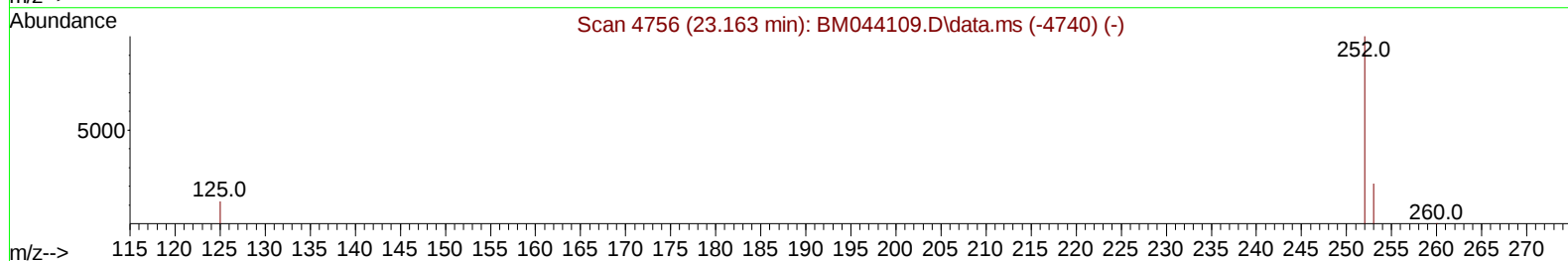
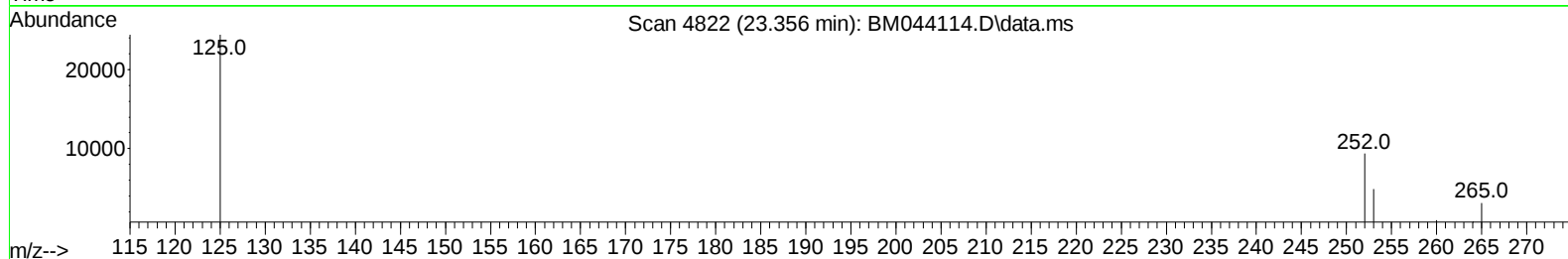
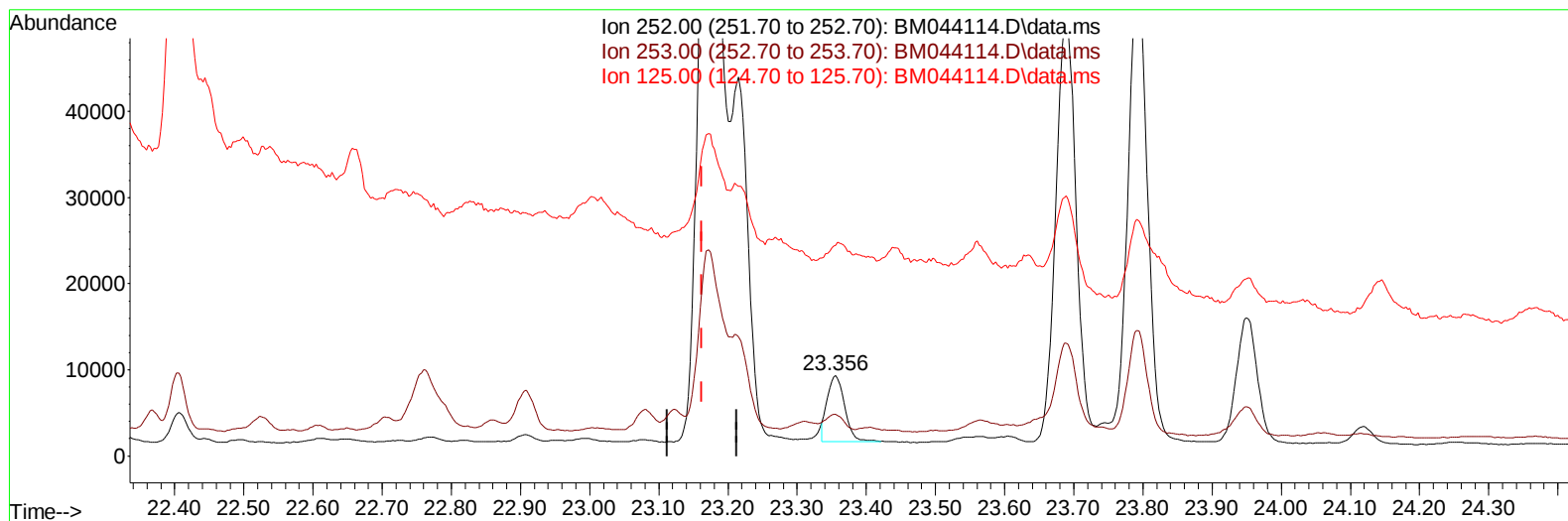
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(24) Benzo(b)fluoranthene

23.356min (+ 0.193) 0.20 ng/u1

response 13334

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 252.00 | 100.00 | 100.00  |
| 253.00 | 25.00  | 51.83#  |
| 125.00 | 14.10  | 261.19# |
| 0.00   | 0.00   | 0.00    |

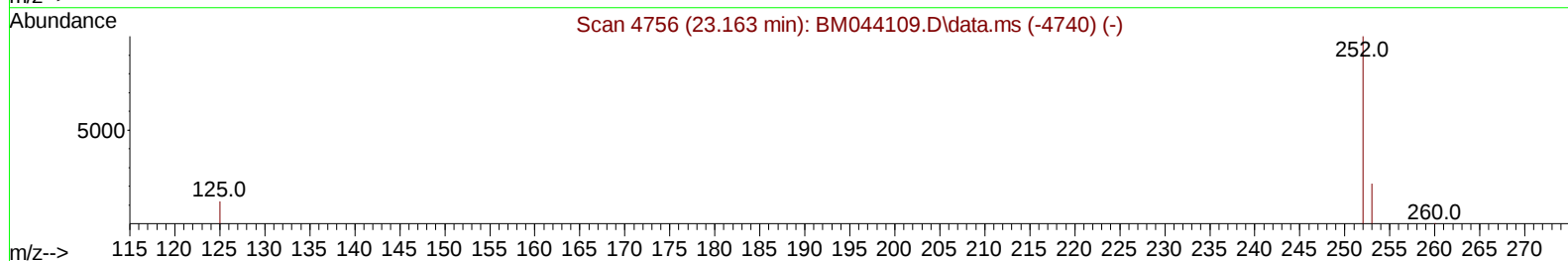
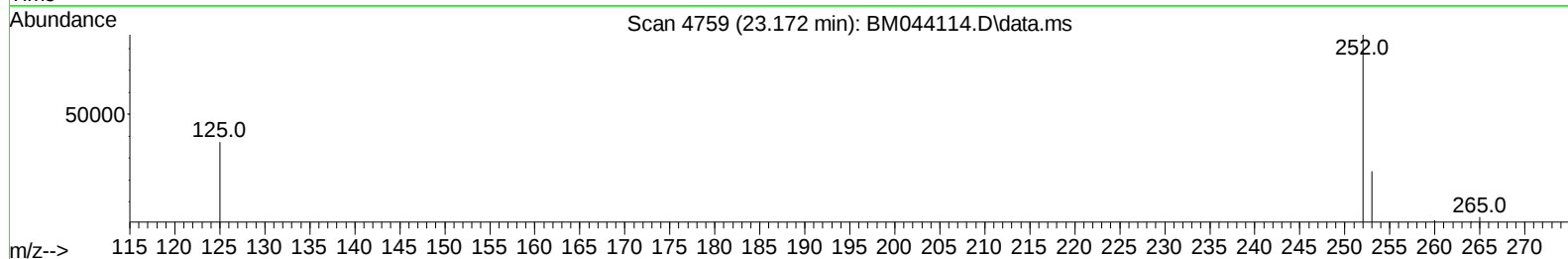
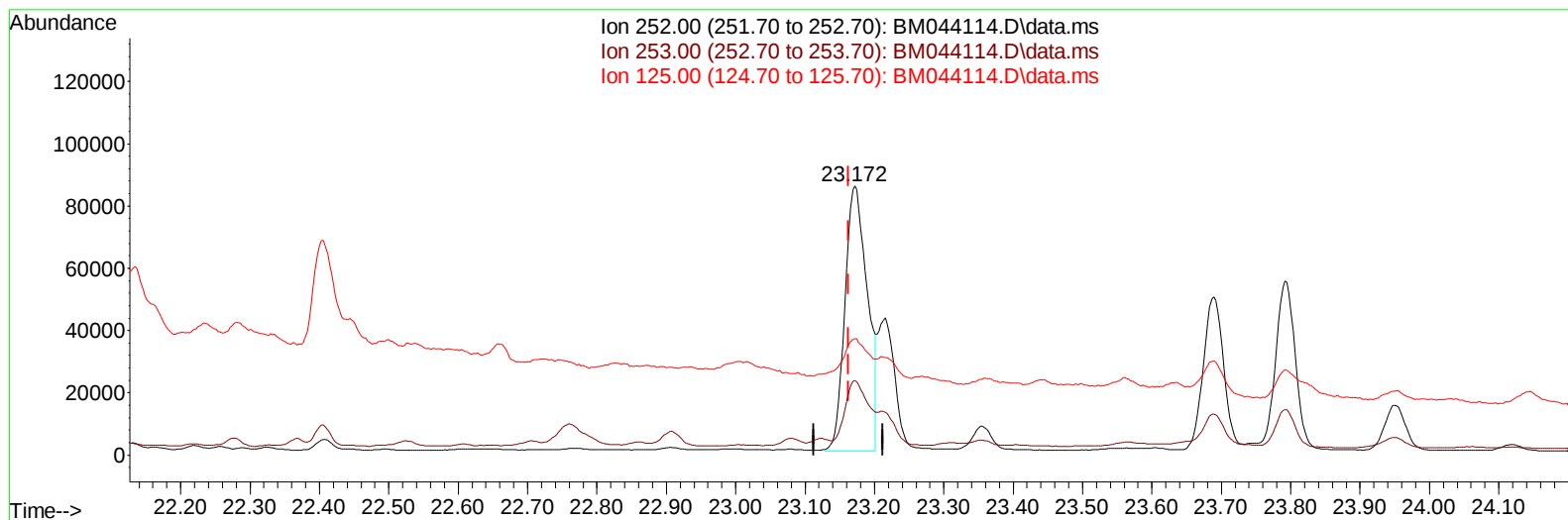
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
 Data File : BM044114.D  
 Acq On : 15 Feb 2024 23:24  
 Operator : MA/JU  
 Sample : P1329-11  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 15 13:40:24 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
 Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

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

23.172min (+ 0.009) 2.82 ng/ul m

response 191211

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 25.00  | 27.73  |
| 125.00 | 14.10  | 43.29# |
| 0.00   | 0.00   | 0.00   |

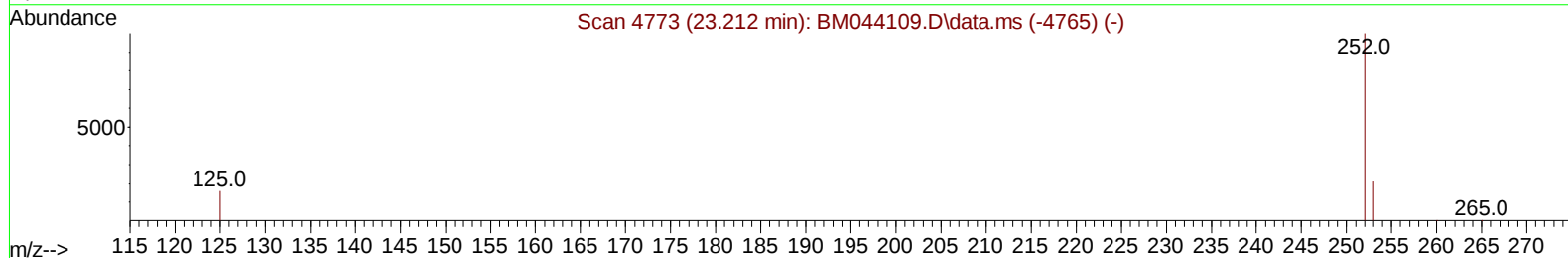
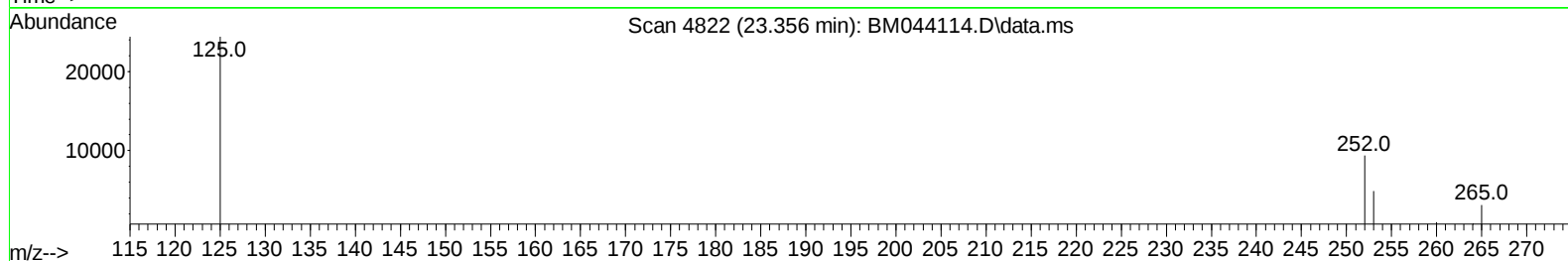
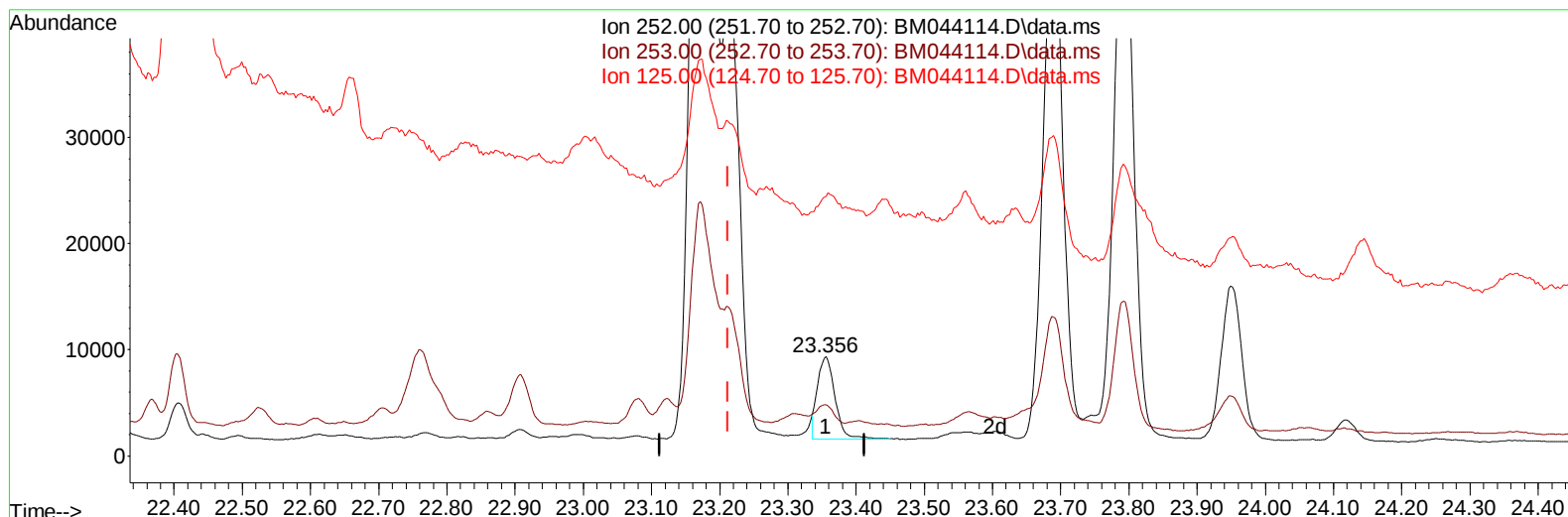
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
COFM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(25) Benzo(k)fluoranthene

23.356min (+ 0.143) 0.19 ng/u1

response 13851

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 252.00 | 100.00 | 100.00  |
| 253.00 | 25.10  | 51.83#  |
| 125.00 | 15.40  | 261.19# |
| 0.00   | 0.00   | 0.00    |

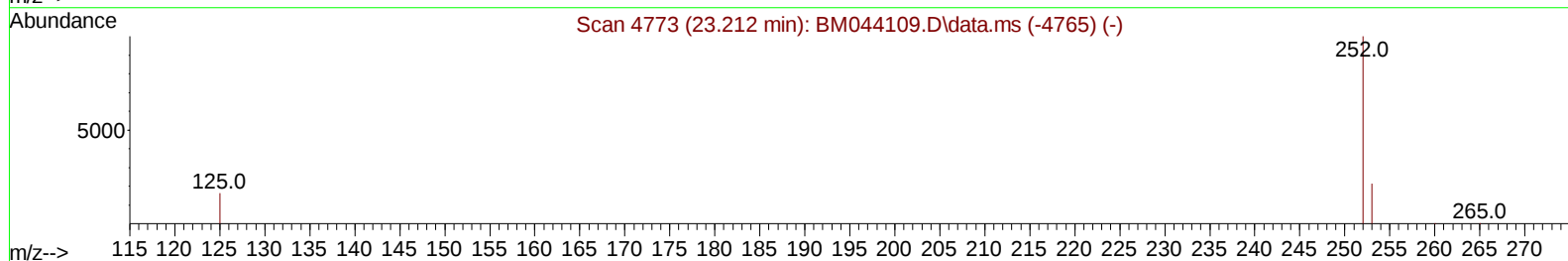
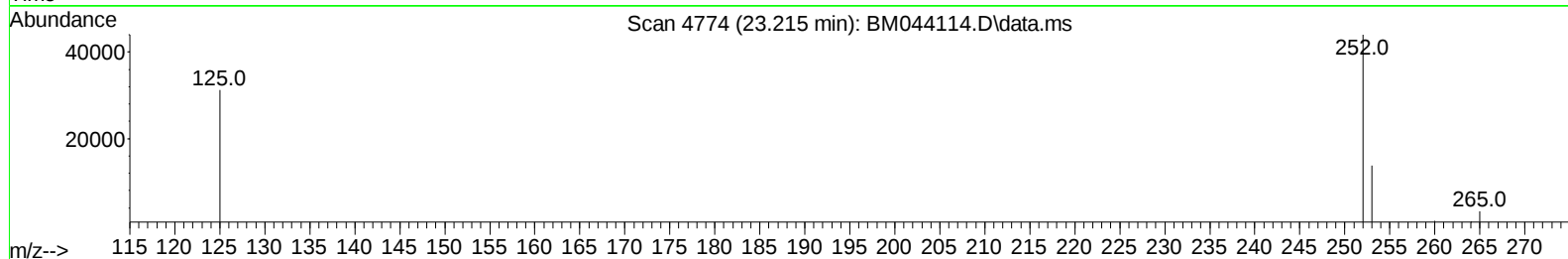
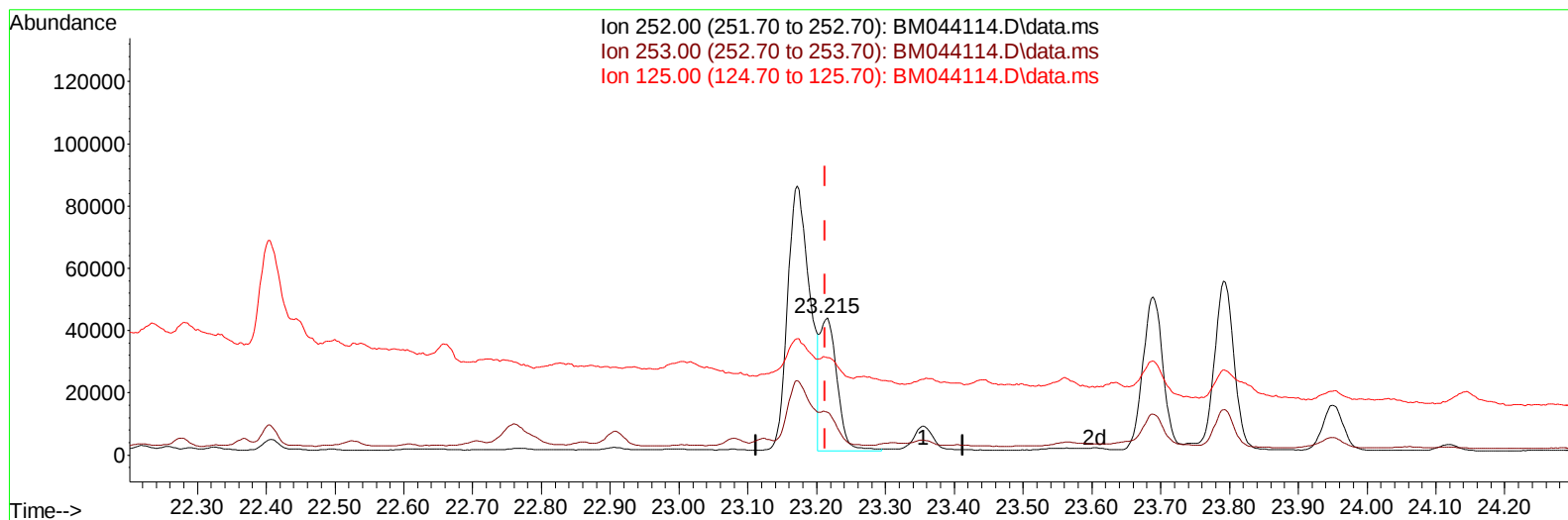
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(25) Benzo(k)fluoranthene

23.215min (+ 0.003) 1.02 ng/u1 m

response 75329

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 25.10  | 31.40# |
| 125.00 | 15.40  | 71.05# |
| 0.00   | 0.00   | 0.00   |

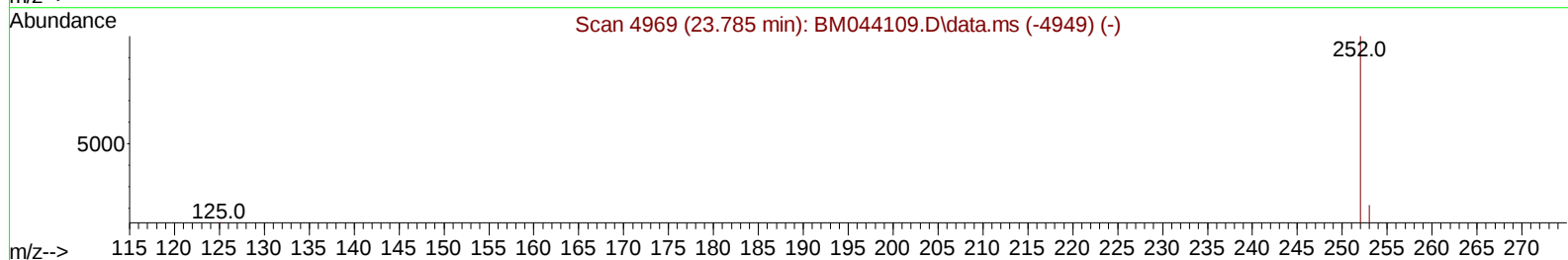
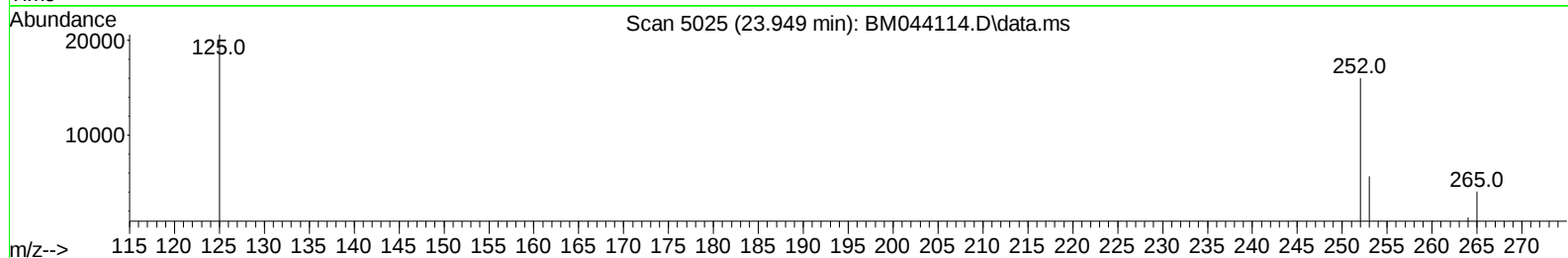
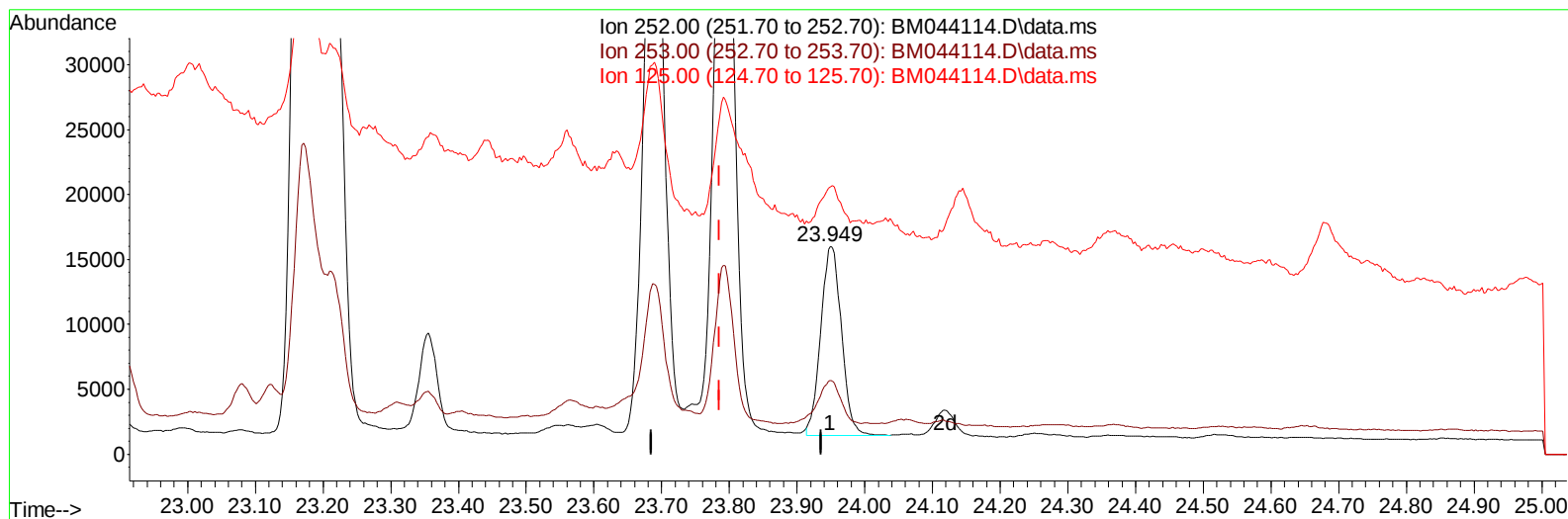
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(26) Benzo(a)pyrene (C)

23.949min (+ 0.164) 0.49 ng/u1

response 30767

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 252.00 | 100.00 | 100.00  |
| 253.00 | 26.80  | 35.53#  |
| 125.00 | 16.60  | 128.50# |
| 0.00   | 0.00   | 0.00    |

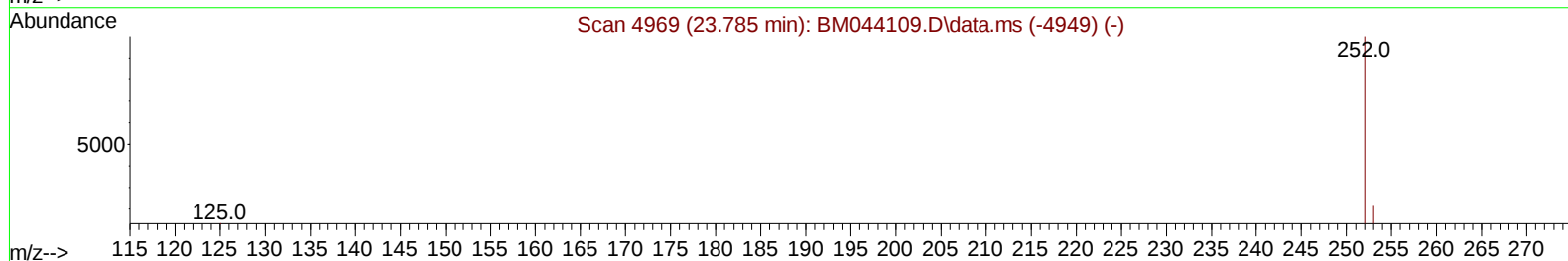
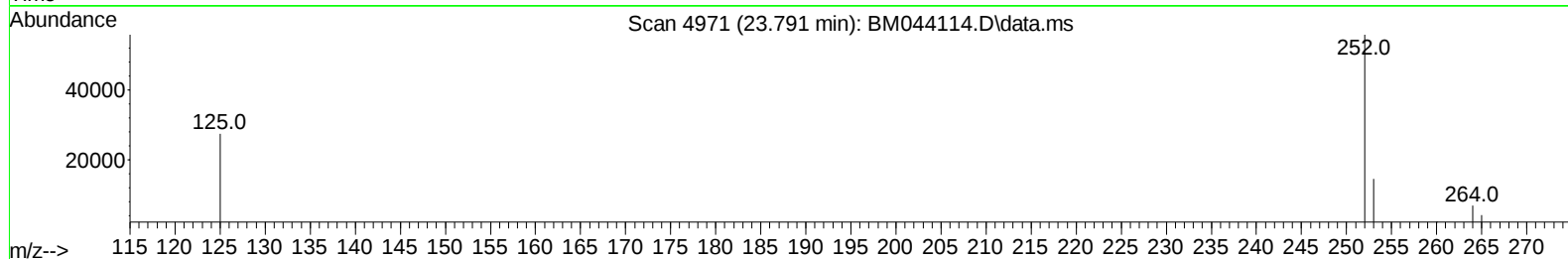
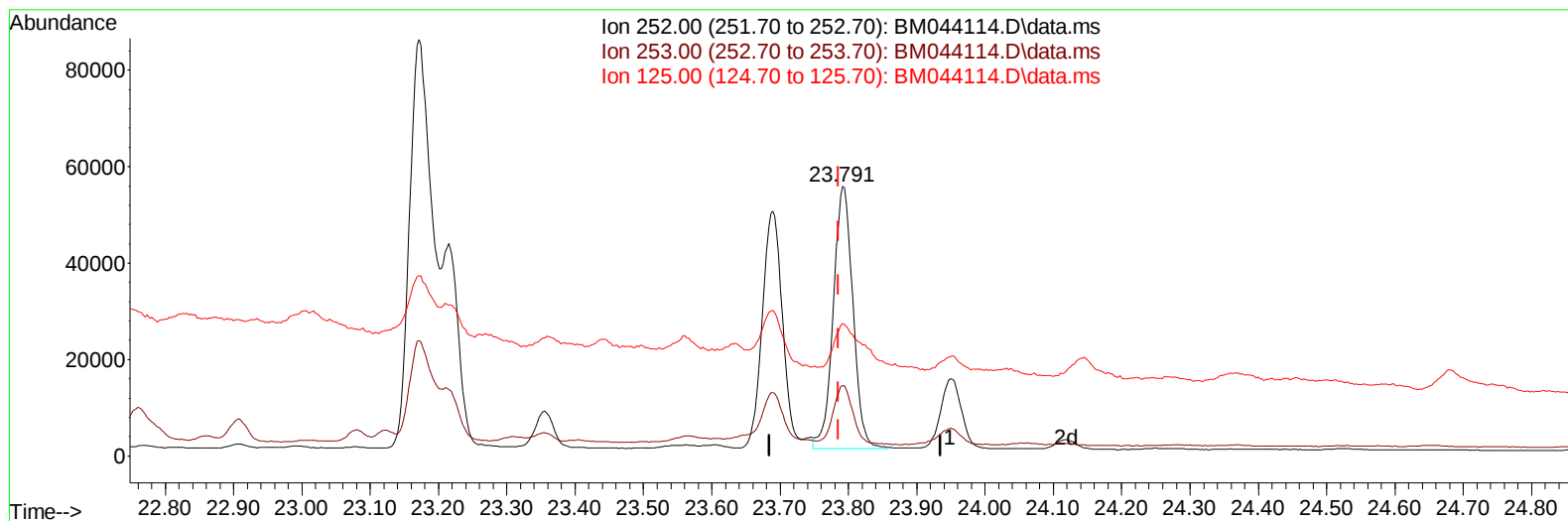
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(26) Benzo(a)pyrene (C)

23.791min (+ 0.006) 1.73 ng/u1 m

response 108780

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 26.80  | 26.03  |
| 125.00 | 16.60  | 49.21# |
| 0.00   | 0.00   | 0.00   |

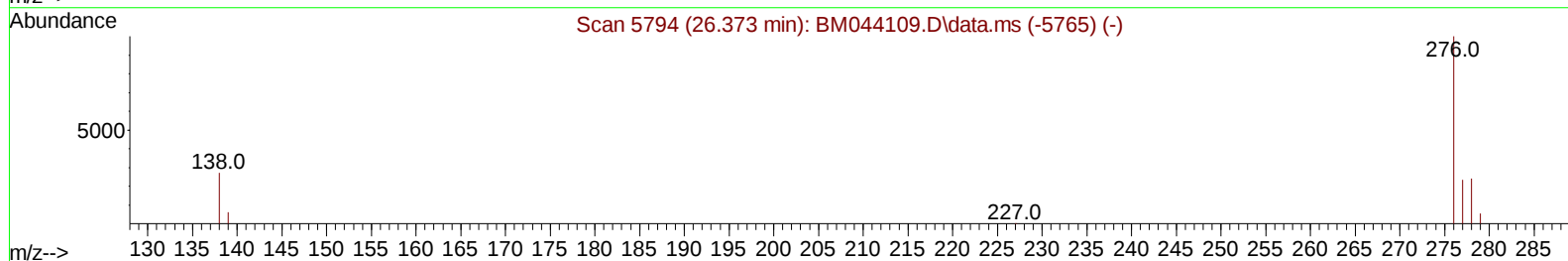
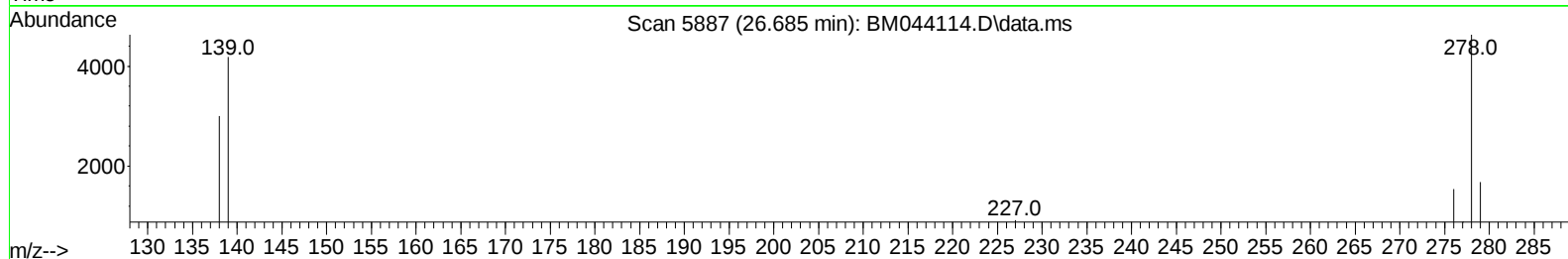
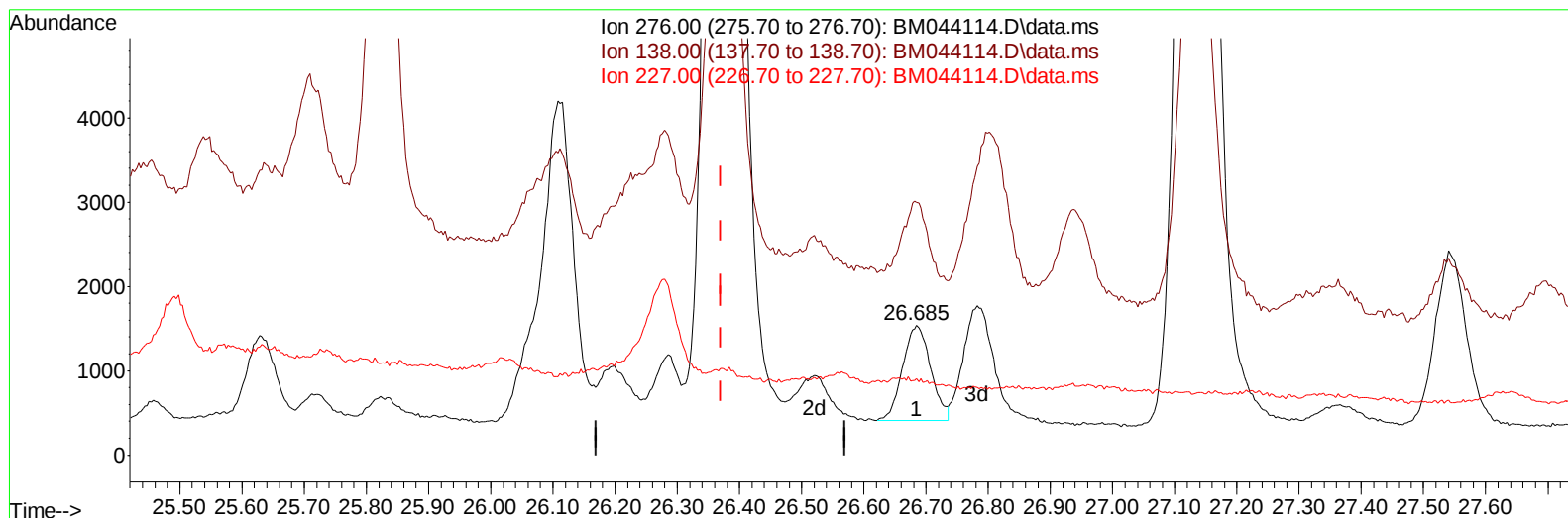
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
COFM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

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

26.685min (+ 0.315) 0.04 ng/u1

response 3544

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 31.50  | 76.72# |
| 227.00 | 0.10   | 14.90# |
| 0.00   | 0.00   | 0.00   |

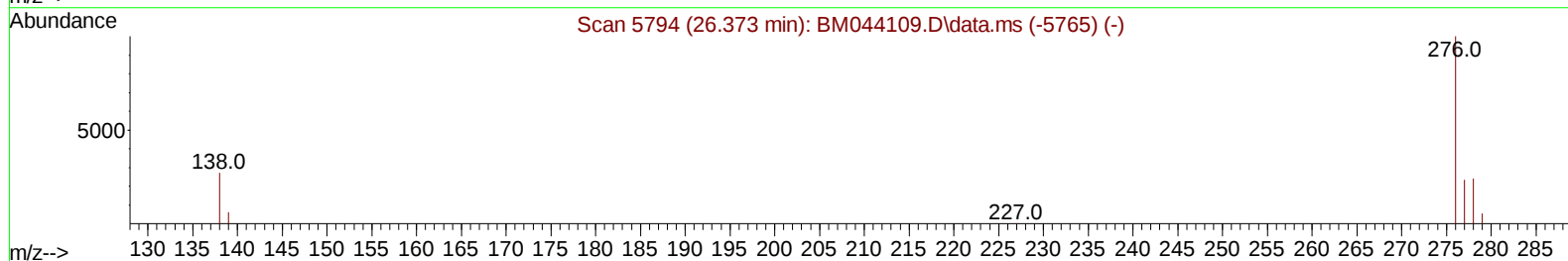
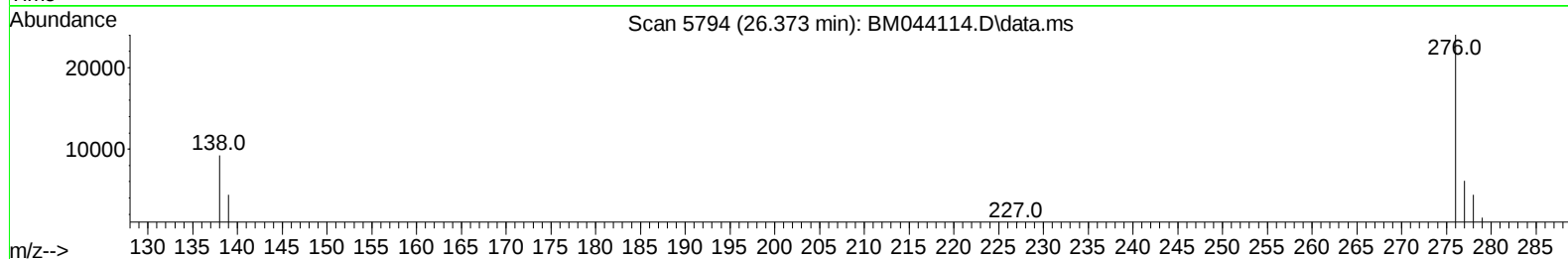
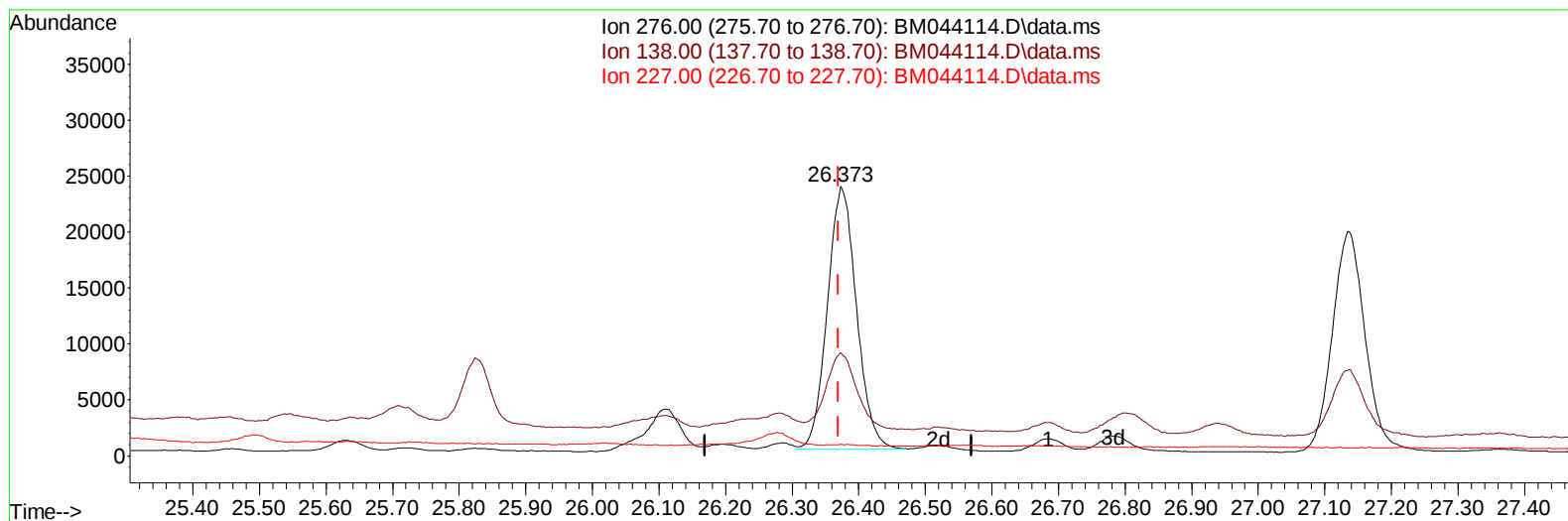
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
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Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

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

26.373min (+ 0.003) 0.90 ng/ul m

response 71895

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 31.50  | 3.78#  |
| 227.00 | 0.10   | 0.73#  |
| 0.00   | 0.00   | 0.00   |

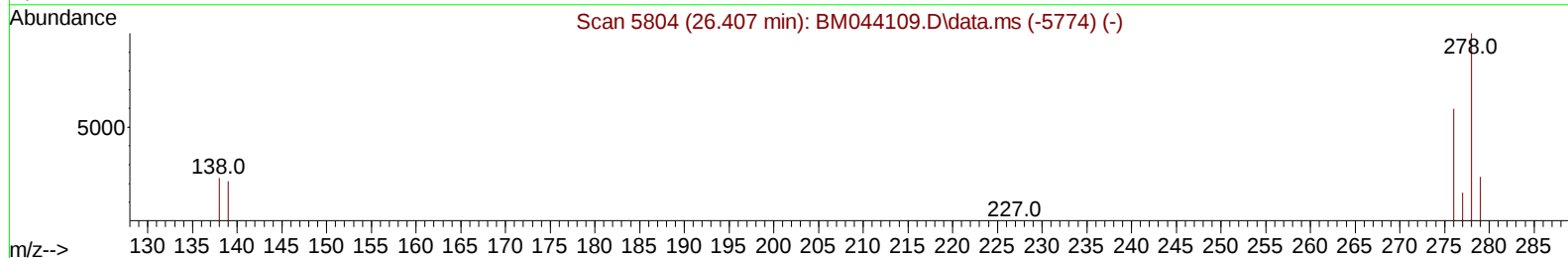
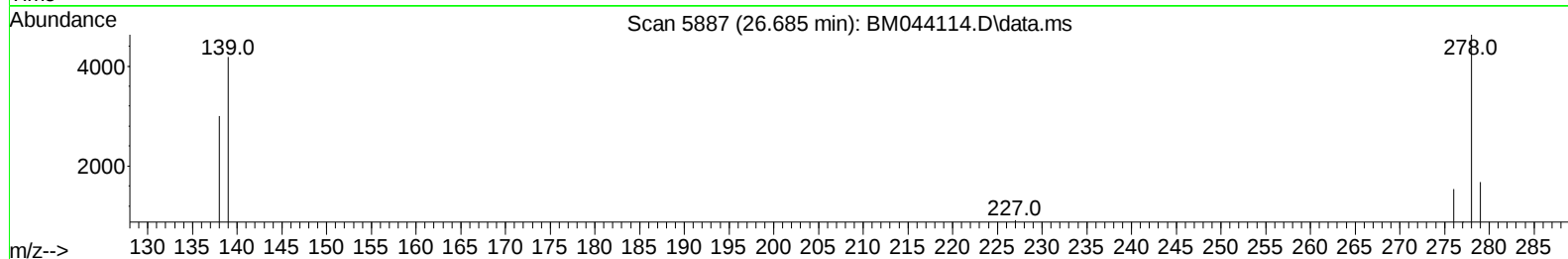
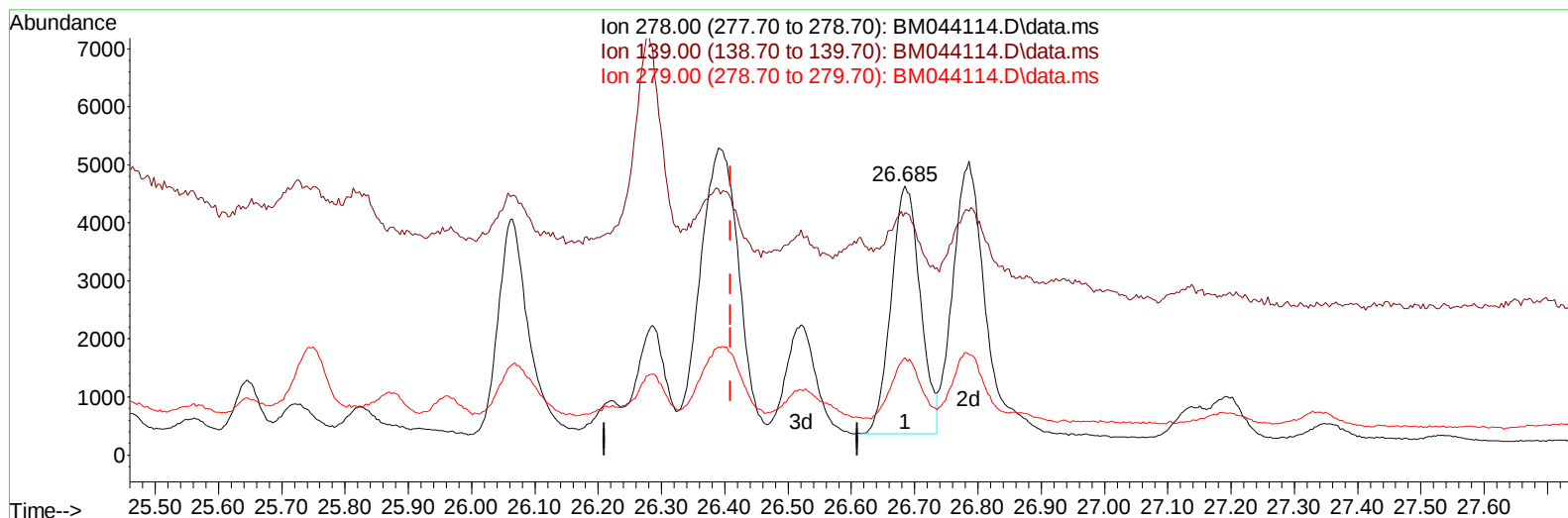
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
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TIC: BM044114.D\data.ms

(28) Dibenzo(a,h)anthracene

26.685min (+ 0.275) 0.22 ng/u1

response 13610

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 22.30  | 90.31# |
| 279.00 | 27.30  | 36.20# |
| 0.00   | 0.00   | 0.00   |

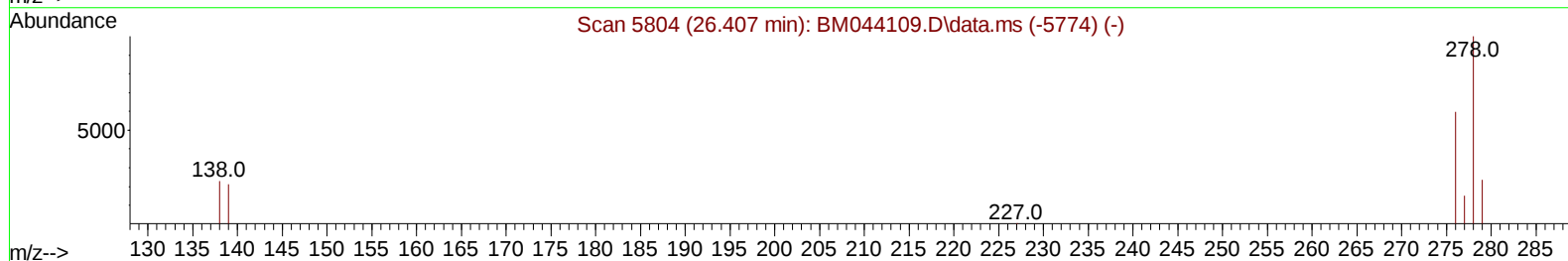
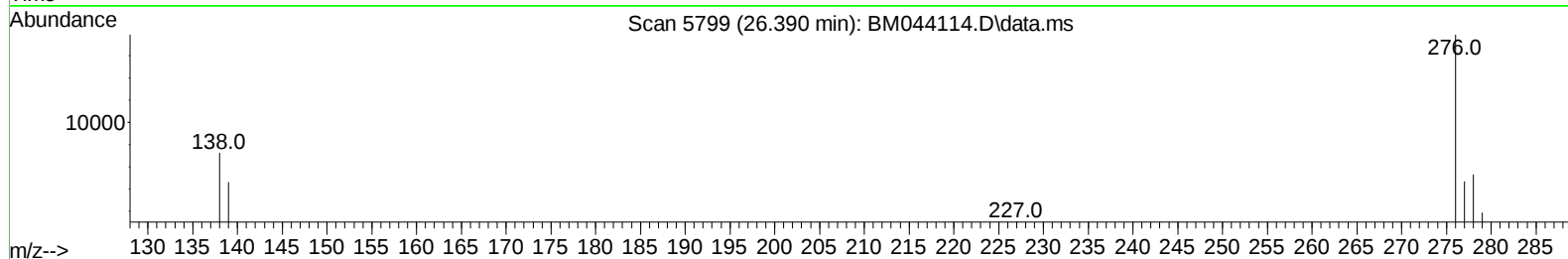
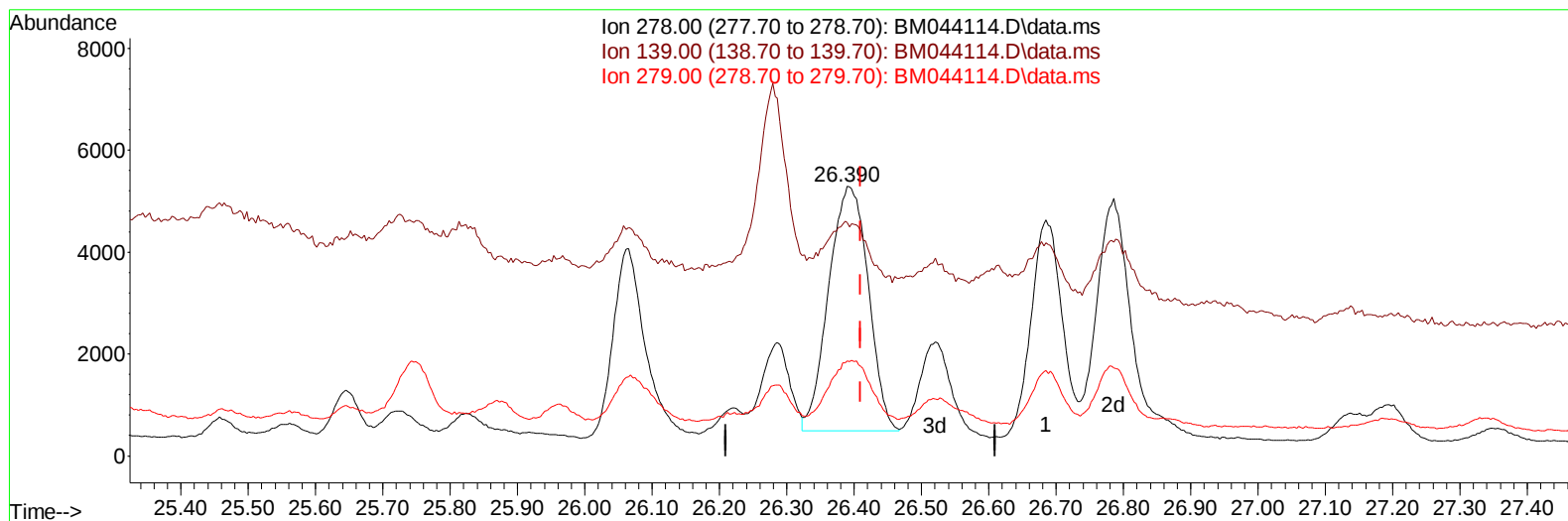
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

(28) Dibenzo(a,h)anthracene

26.390min (-0.020) 0.31 ng/u1 m

response 19612

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 22.30  | 86.63# |
| 279.00 | 27.30  | 35.28# |
| 0.00   | 0.00   | 0.00   |

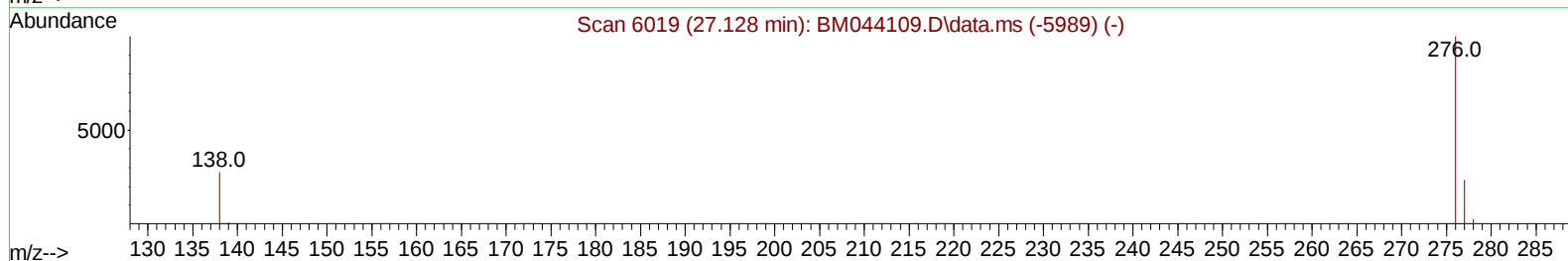
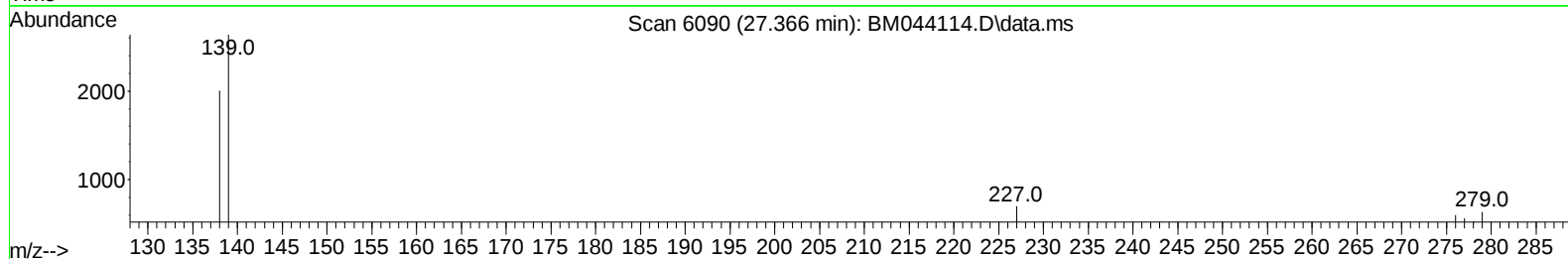
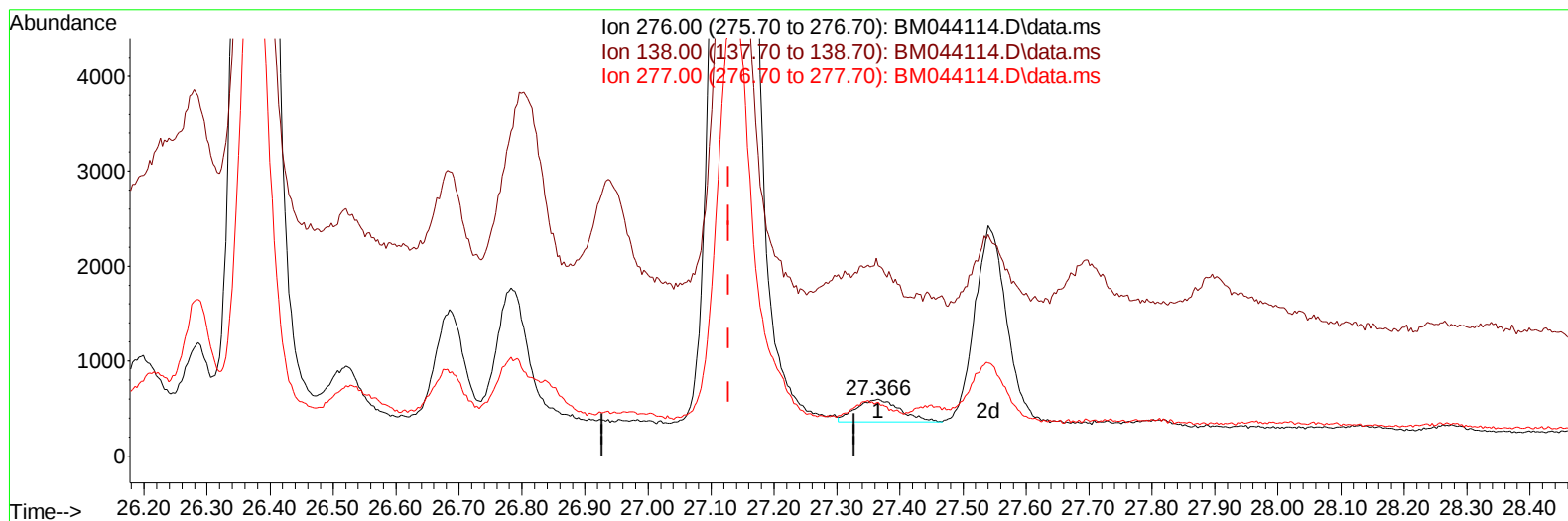
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



TIC: BM044114.D\data.ms

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

27.366min (+ 0.238) 0.02 ng/u1

response 1181

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 276.00 | 100.00 | 100.00  |
| 138.00 | 28.40  | 335.68# |
| 277.00 | 23.80  | 94.64#  |
| 0.00   | 0.00   | 0.00    |

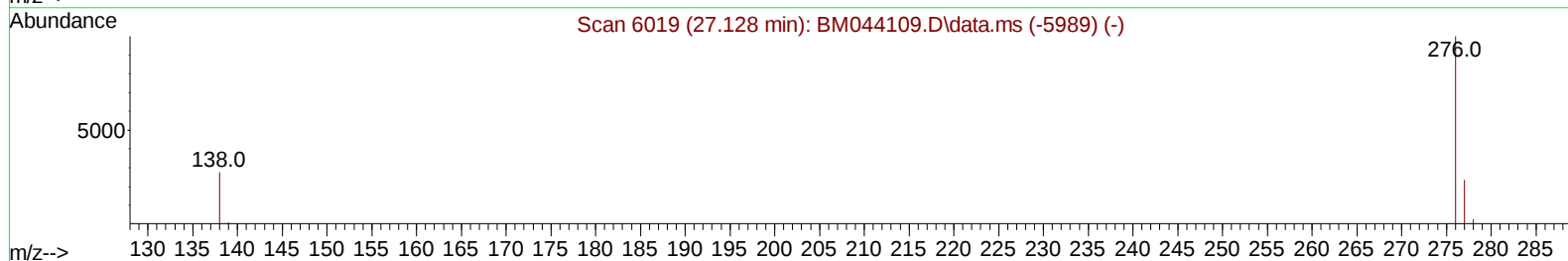
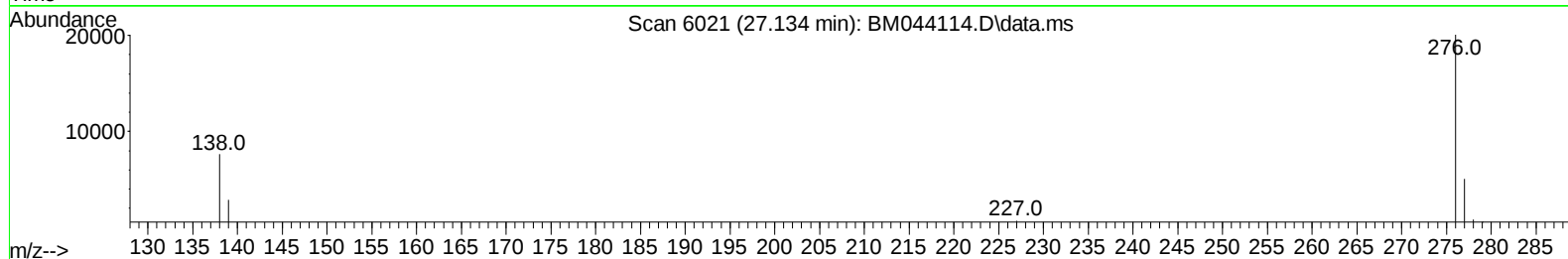
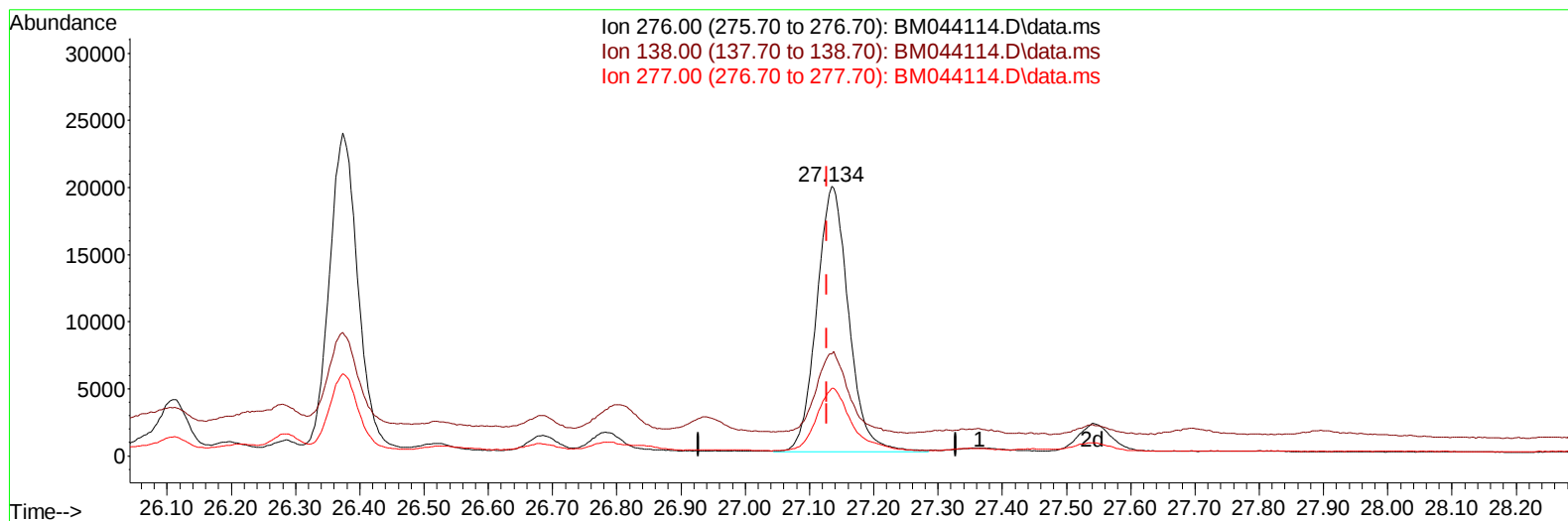
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044114.D  
Acq On : 15 Feb 2024 23:24  
Operator : MA/JU  
Sample : P1329-11  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0FM2

Manual IntegrationsAPPROVED

Quant Time: Feb 17 02:31:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/17/2024  
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TIC: BM044114.D\data.ms

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

27.134min (+ 0.007) 0.96 ng/ul m

response 68400

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 28.40  | 37.95# |
| 277.00 | 23.80  | 25.16  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
 Data File : BM044114.D  
 Acq On : 15 Feb 2024 23:24  
 Operator : MA/JU  
 Sample : P1329-11  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0FM2

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/17/2024  
 Supervised By :mohammad ahmed 02/19/2024

Quant Time: Feb 17 02:31:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 15 13:40:24 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.905  | 152  | 9201     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.704 | 136  | 27985    | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.547 | 164  | 19781    | 0.400  | ng/ul  | # 0.00   |
| 13) Phenanthrene-d10        | 17.296 | 188  | 31390m   | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.503 | 240  | 16472m   | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.897 | 264  | 16437m   | 0.400  | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.352  | 96   | 57001    | 4.375  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.294 | 152  | 20998    | 0.536  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.331 | 212  | 22186m   | 0.451  | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.754 | 128  | 263213   | 3.165  | ng/ul# | 89       |
| 7) 2-Methylnaphthalene      | 12.371 | 142  | 620362   | 12.092 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.591 | 142  | 496992   | 9.575  | ng/ul  | 96       |
| 10) Acenaphthylene          | 14.274 | 152  | 29317    | 0.270  | ng/ul# | 1        |
| 11) Acenaphthene            | 14.607 | 153  | 32526    | 0.413  | ng/ul# | 87       |
| 12) Fluorene                | 15.597 | 166  | 33943    | 0.382  | ng/ul# | 84       |
| 14) Pentachlorophenol       | 16.942 | 266  | 913      | 0.081  | ng/ul  | 97       |
| 15) Phenanthrene            | 17.339 | 178  | 83698m   | 0.841  | ng/ul  |          |
| 16) Anthracene              | 17.431 | 178  | 4354m    | 0.044  | ng/ul  |          |
| 19) Fluoranthene            | 19.359 | 202  | 637497m  | 8.489  | ng/ul  |          |
| 20) Pyrene                  | 19.726 | 202  | 275389   | 3.487  | ng/ul# | 94       |
| 21) Benzo(a)anthracene      | 21.485 | 228  | 125827m  | 1.668  | ng/ul  |          |
| 22) Chrysene                | 21.541 | 228  | 177600m  | 2.184  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.172 | 252  | 191211m  | 2.819  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.215 | 252  | 75329m   | 1.023  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.791 | 252  | 108780m  | 1.725  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 26.373 | 276  | 71895m   | 0.896  | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 26.390 | 278  | 19612m   | 0.310  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 27.134 | 276  | 68400m   | 0.963  | ng/ul  |          |
| -----                       |        |      |          |        |        |          |

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

