

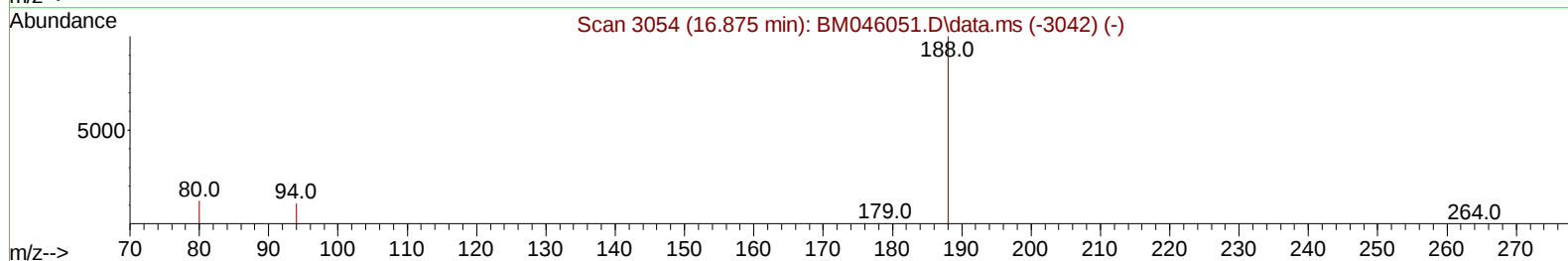
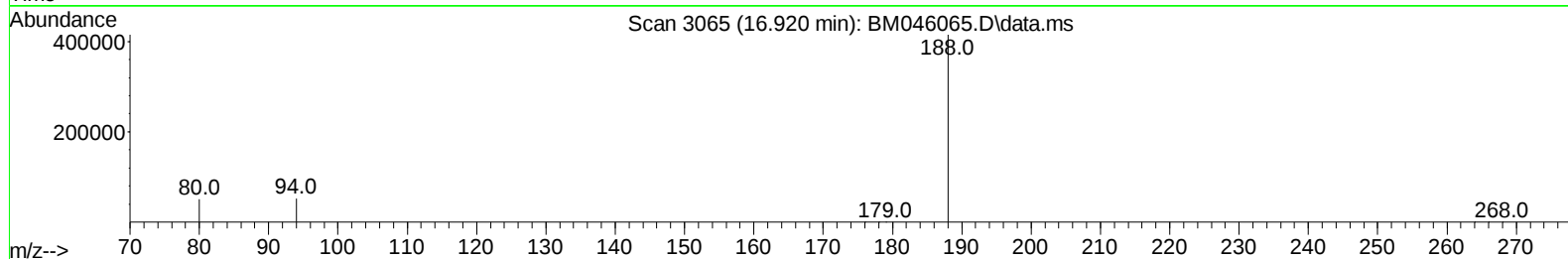
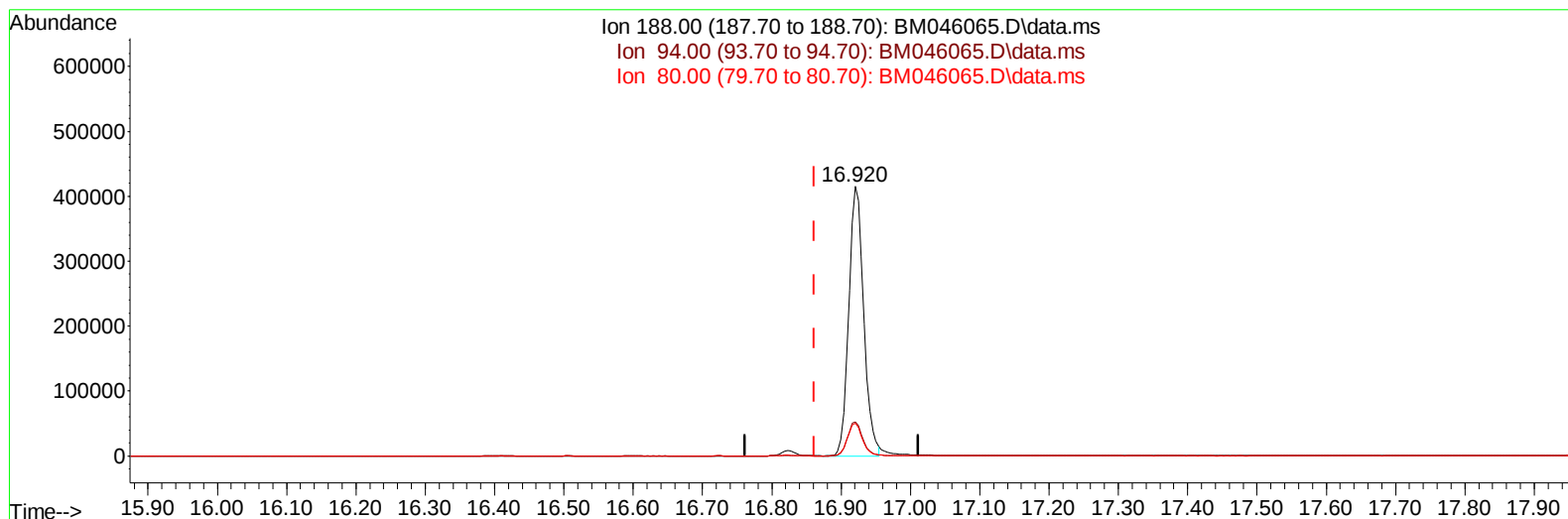
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

**(13) Phenanthrene-d10 (I)**

**16.920min (+ 0.059) 0.40 ng/u1**

**response 619052**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 13.80  | 12.69  |
| 80.00  | 15.20  | 12.20  |
| 0.00   | 0.00   | 0.00   |

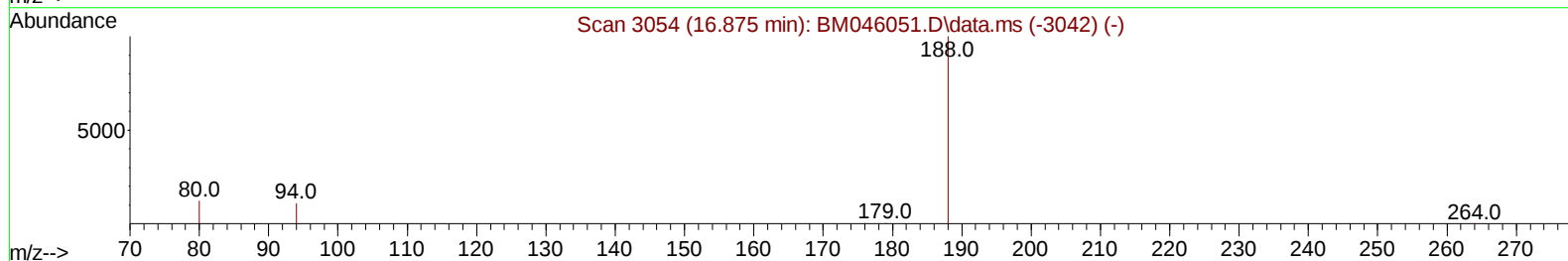
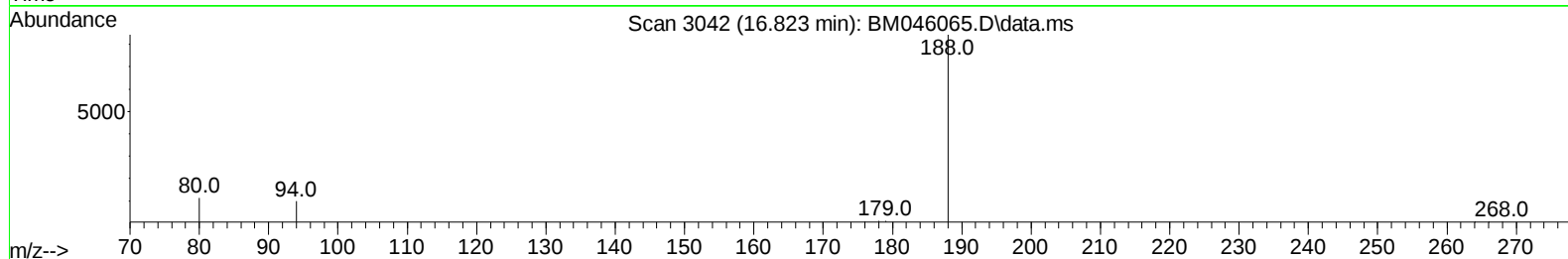
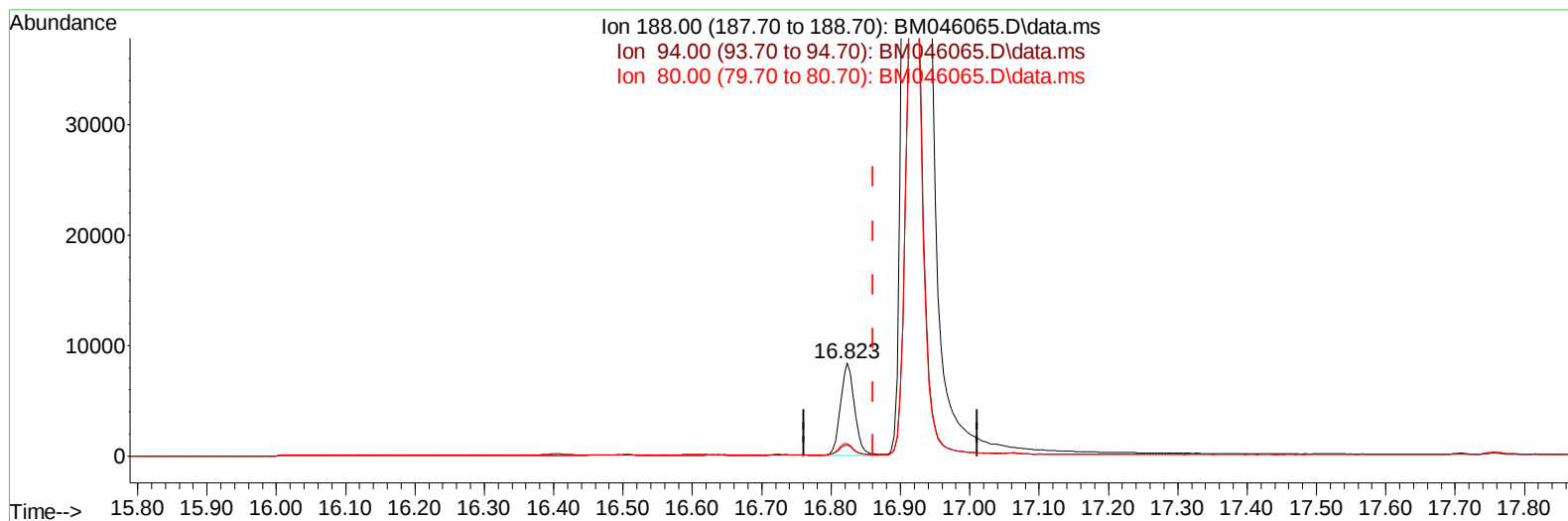
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
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Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

**(13) Phenanthrene-d10 (I)**

**16.823min (-0.038) 0.40 ng/ul m**

**response 11920**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 13.80  | 11.88  |
| 80.00  | 15.20  | 13.55  |
| 0.00   | 0.00   | 0.00   |

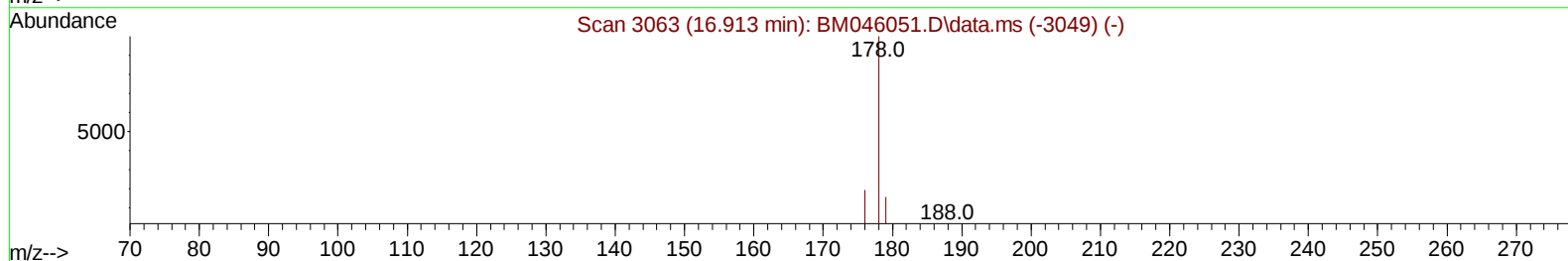
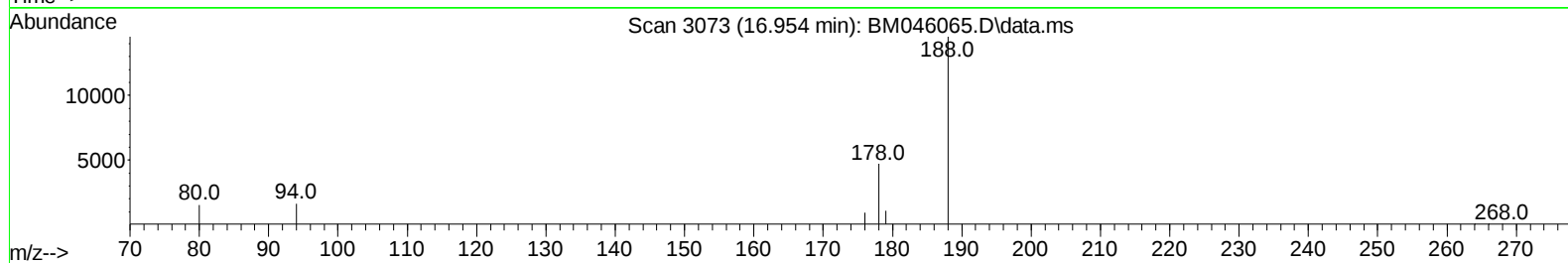
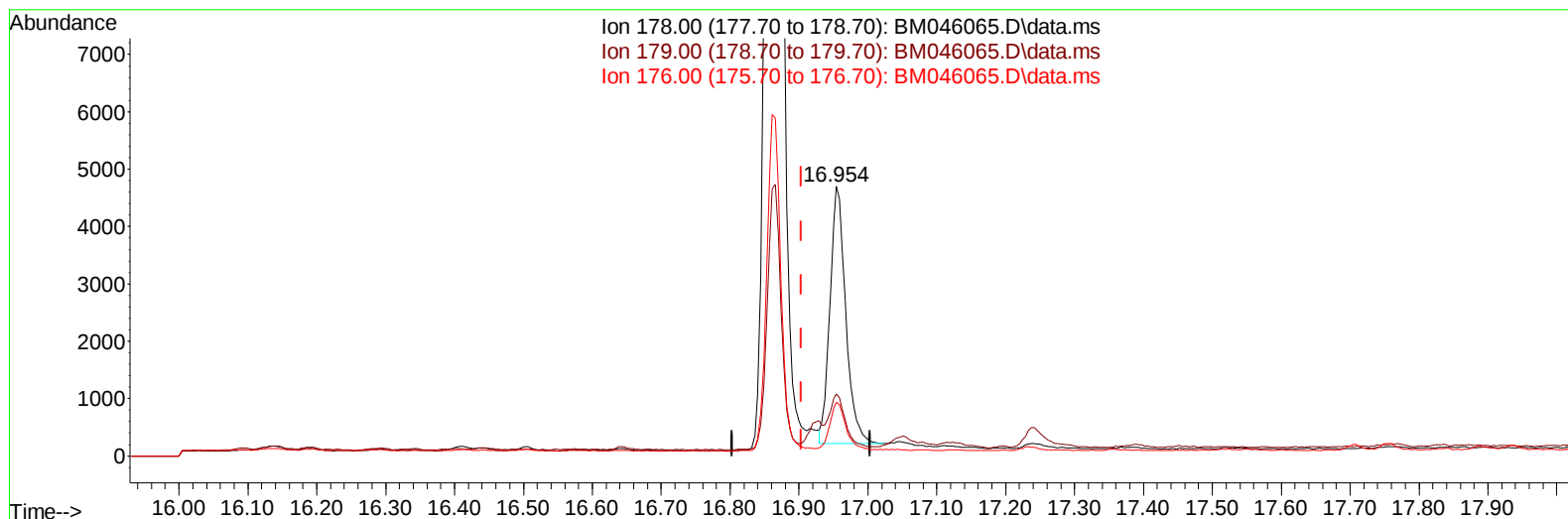
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

(15) Phenanthrene

16.954min (+ 0.051) 0.21 ng/u1

response 7153

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.70  | 23.12# |
| 176.00 | 21.40  | 19.92  |
| 0.00   | 0.00   | 0.00   |

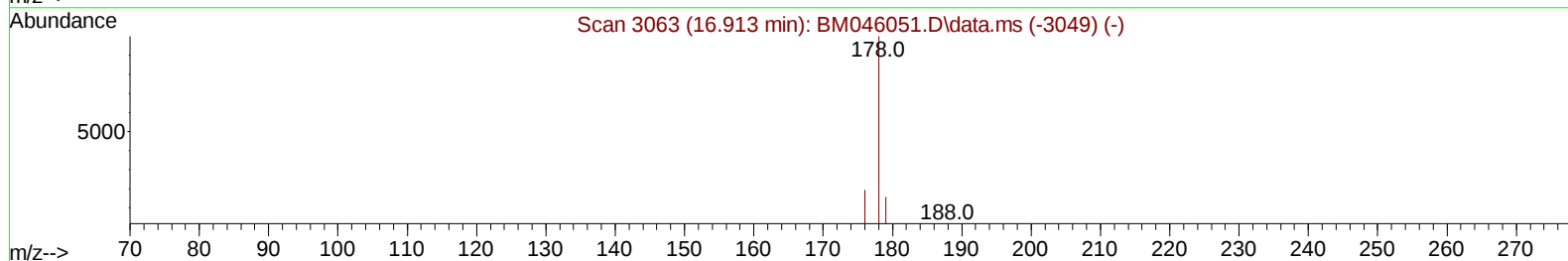
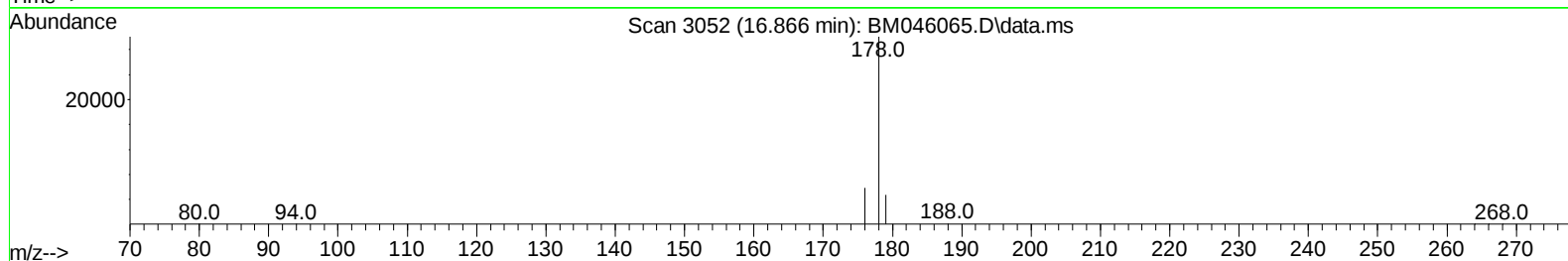
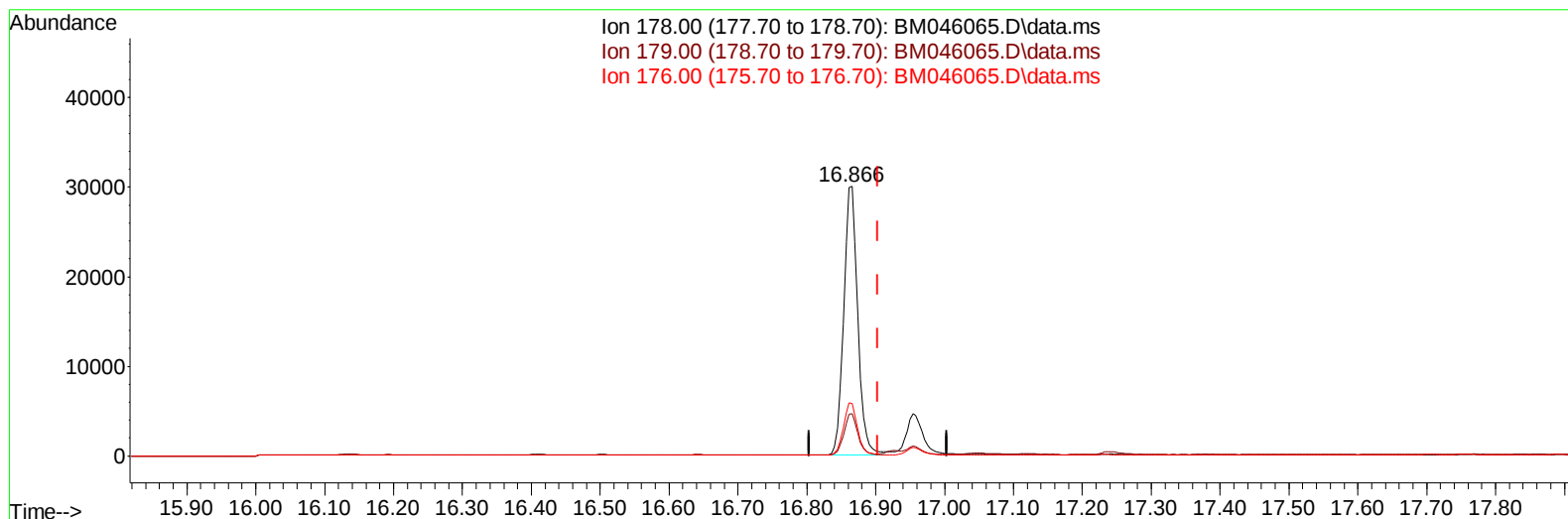
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

(15) Phenanthrene

16.866min (-0.038) 1.27 ng/u1 m

response 42558

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.70  | 15.74  |
| 176.00 | 21.40  | 19.55  |
| 0.00   | 0.00   | 0.00   |

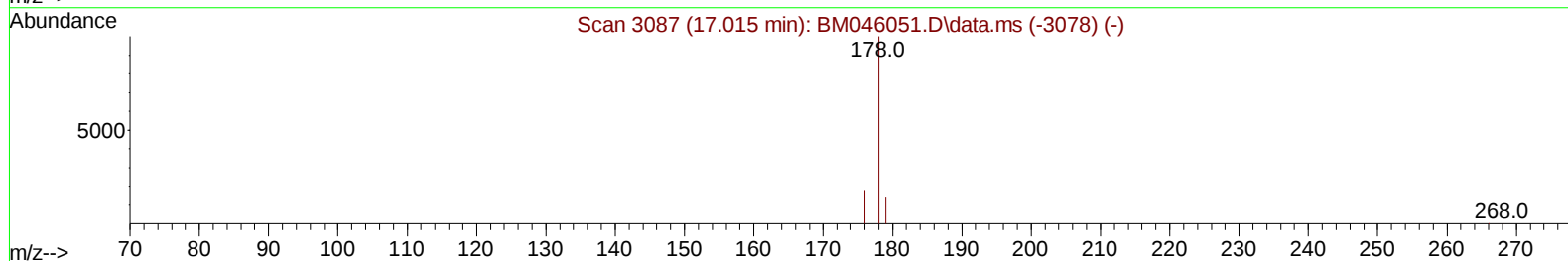
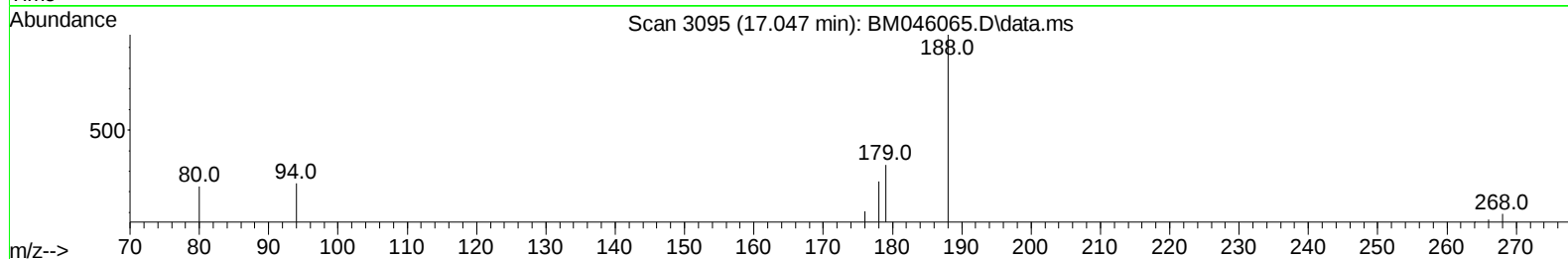
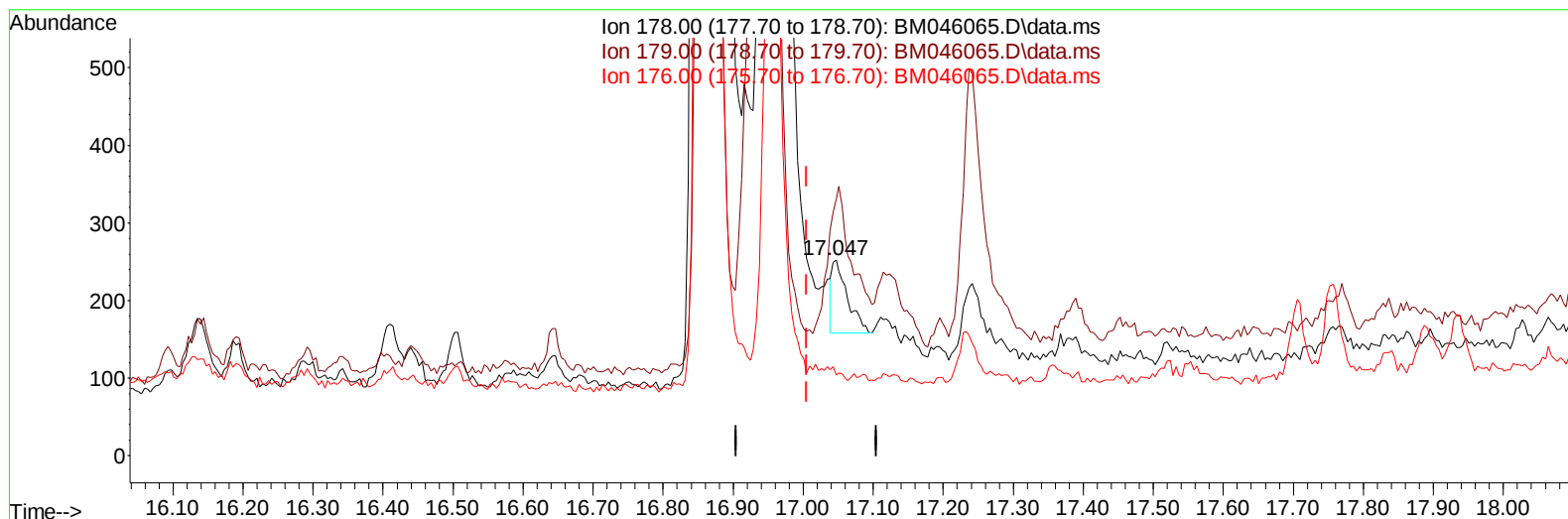
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

(16) Anthracene

17.047min (+ 0.042) 0.01 ng/u1

response 142

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 178.00 | 100.00 | 100.00  |
| 179.00 | 18.60  | 131.35# |
| 176.00 | 21.20  | 41.27#  |
| 0.00   | 0.00   | 0.00    |

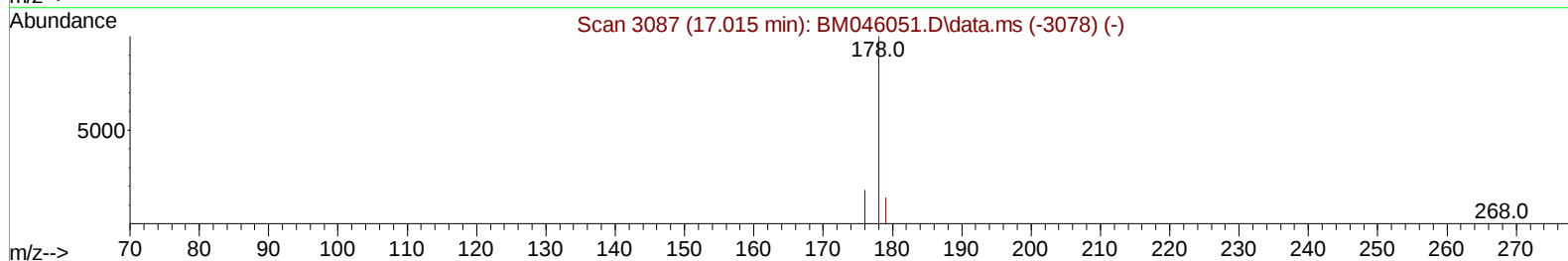
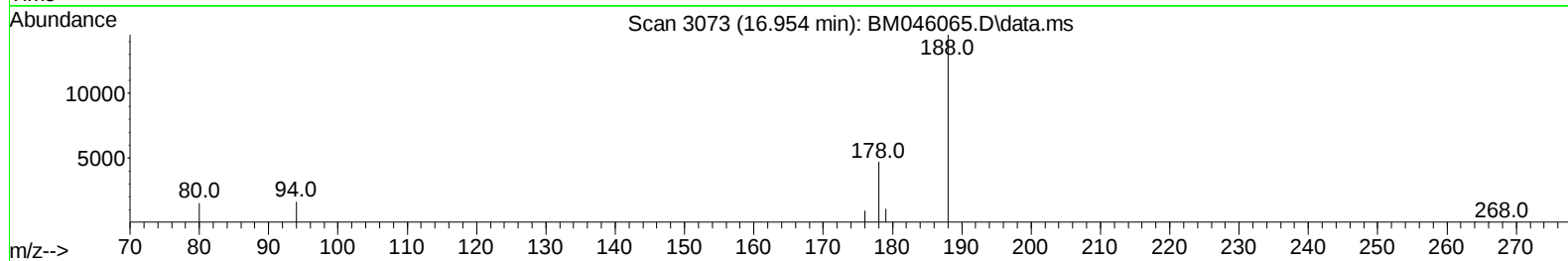
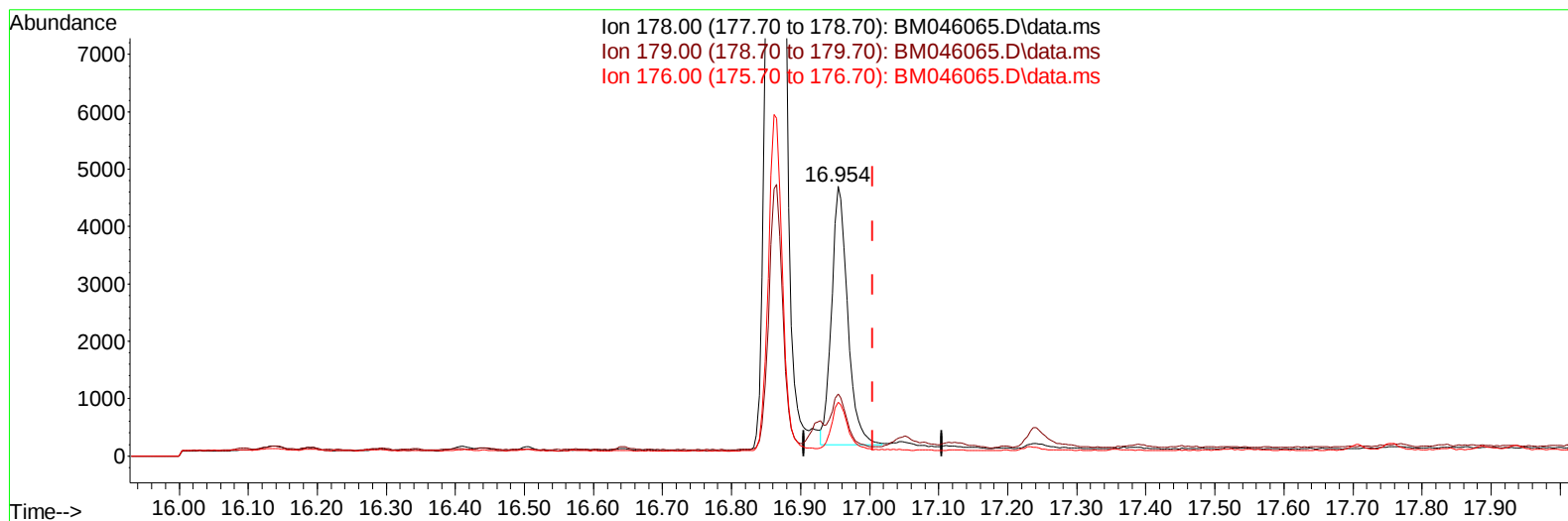
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

(16) Anthracene

16.954min (-0.051) 0.29 ng/u1 m

response 7287

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 18.60  | 23.12# |
| 176.00 | 21.20  | 19.92  |
| 0.00   | 0.00   | 0.00   |

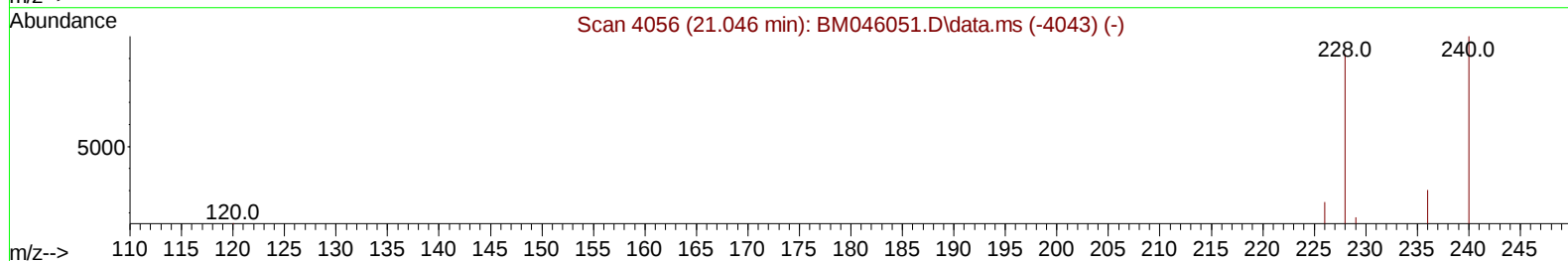
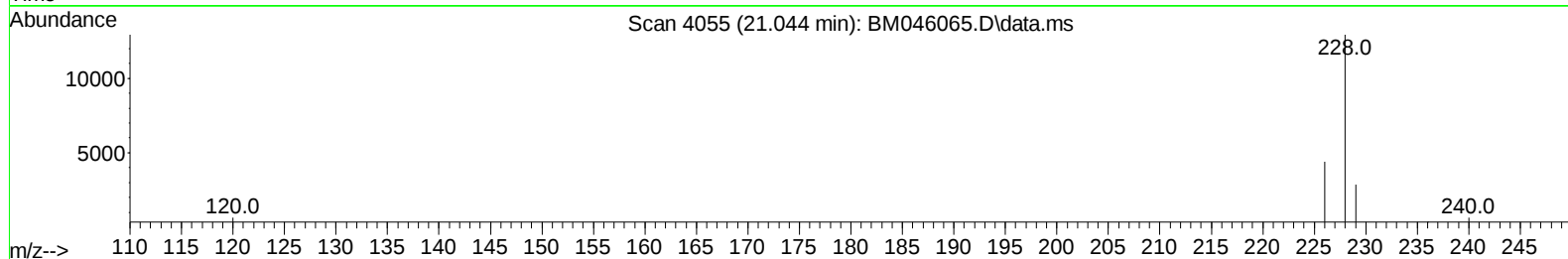
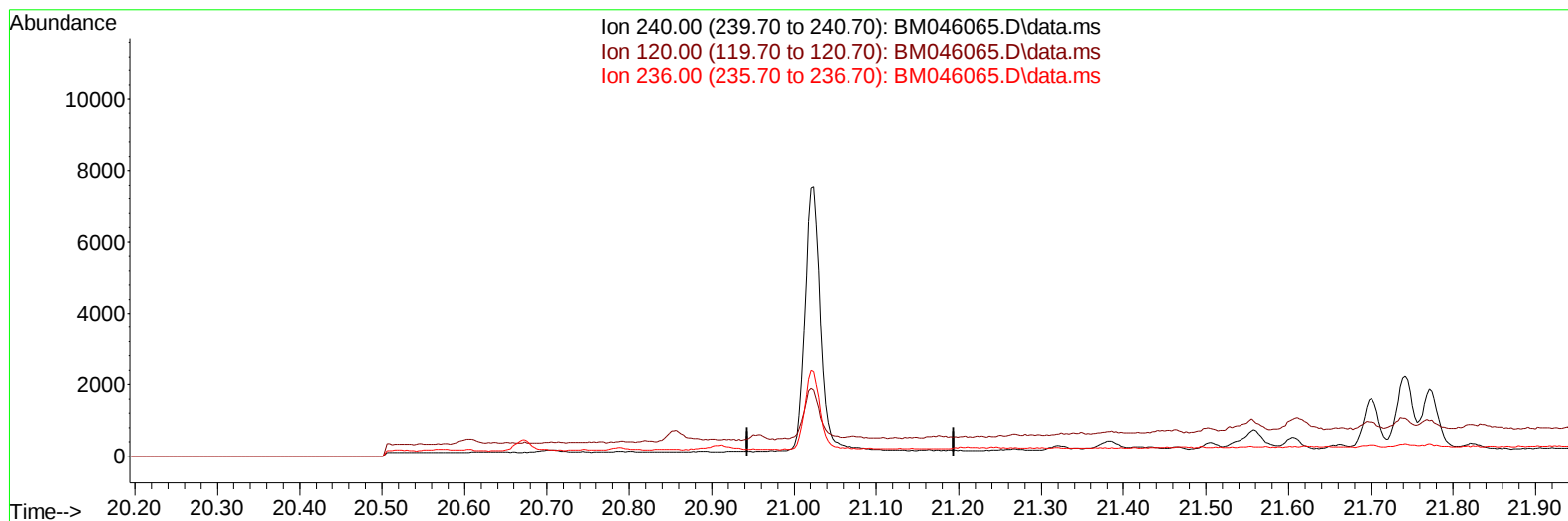
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
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TIC: BM046065.D\data.ms

(17) Chrysene-d12

21.044min (-21.044) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 240.00 | 100.00 | 0.00  |
| 120.00 | 23.50  | 0.00# |
| 236.00 | 33.60  | 0.00# |
| 0.00   | 0.00   | 0.00  |

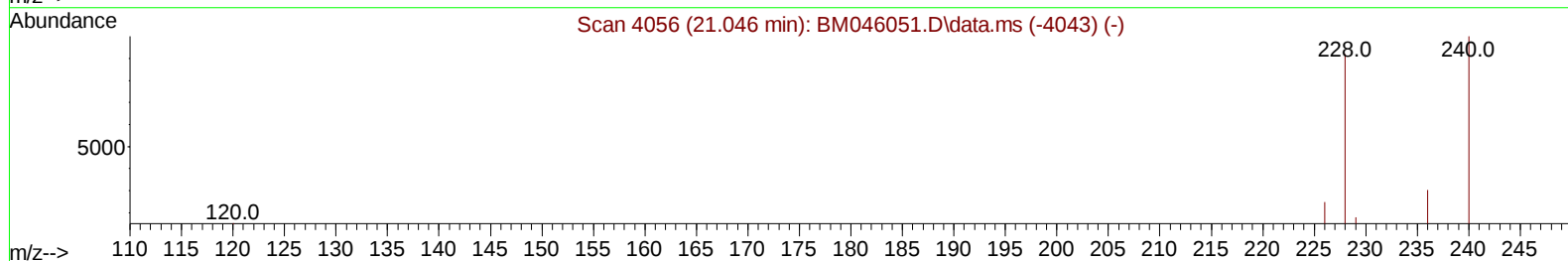
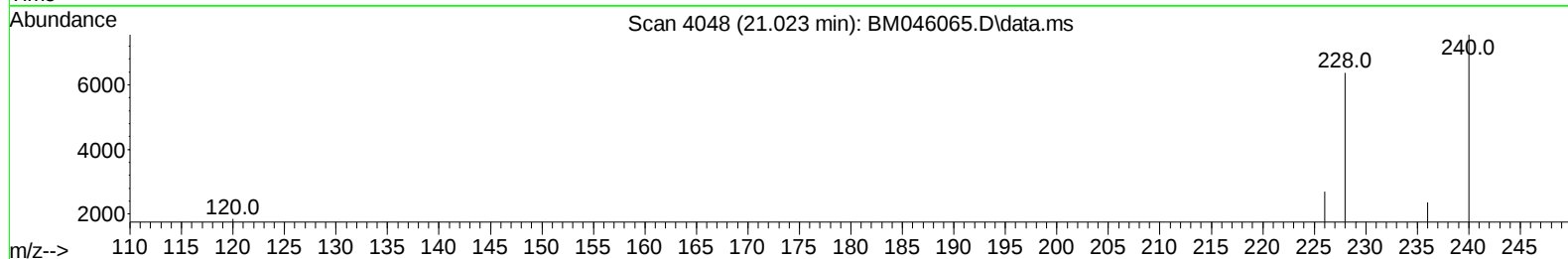
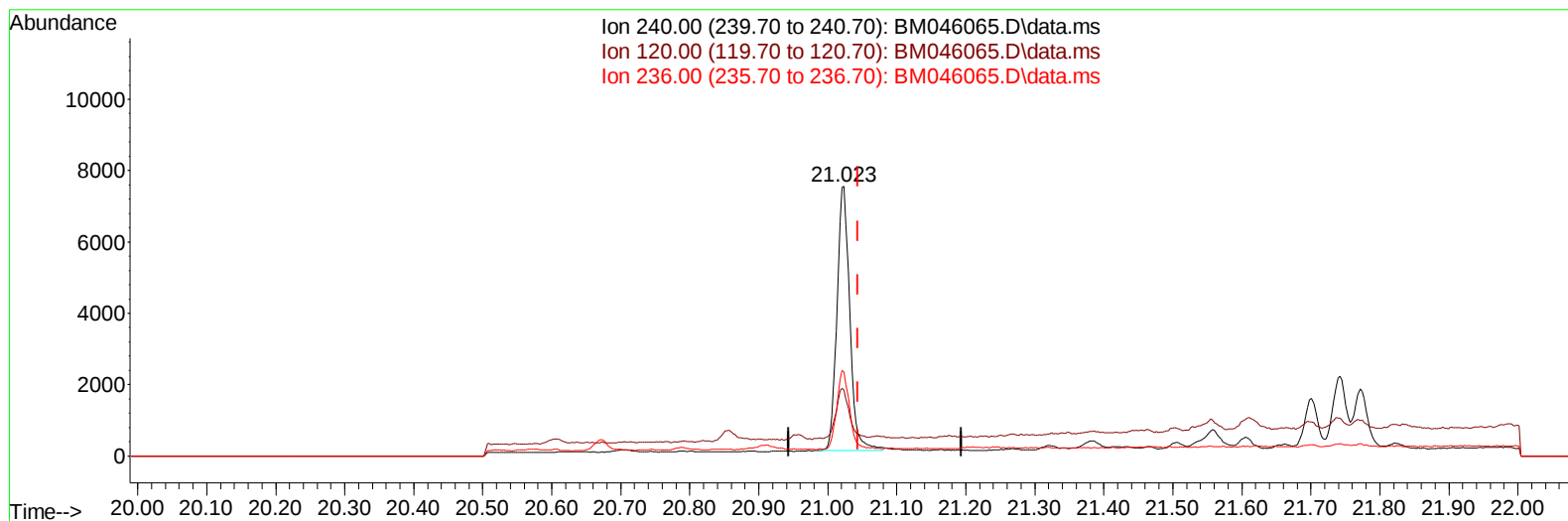
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

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Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

(17) Chrysene-d12

21.023min (-0.020) 0.40 ng/ul m

response 9614

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 240.00 | 100.00 | 100.00 |
| 120.00 | 23.50  | 24.38  |
| 236.00 | 33.60  | 31.19  |
| 0.00   | 0.00   | 0.00   |

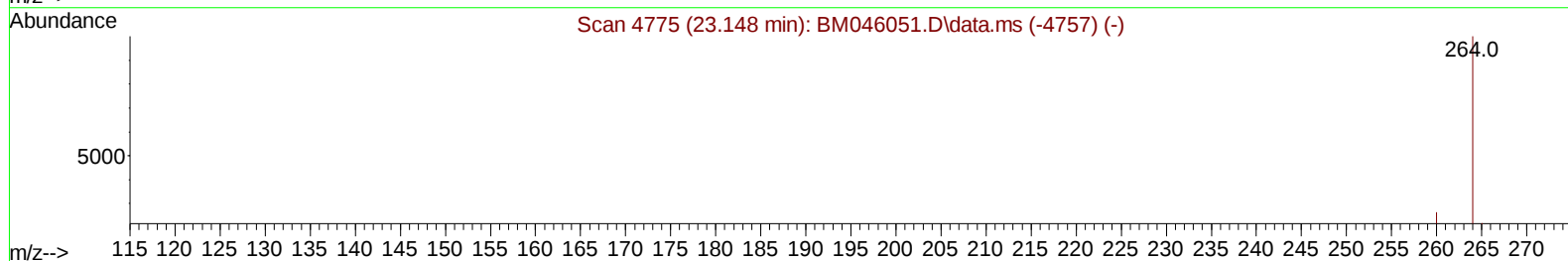
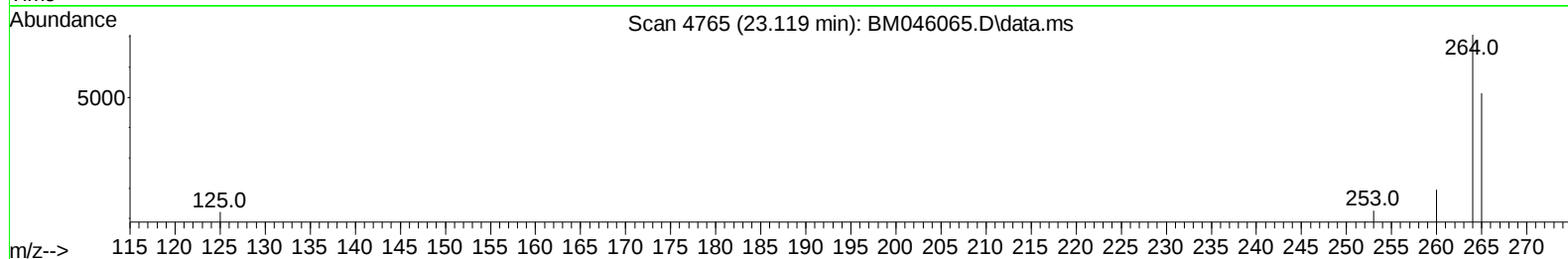
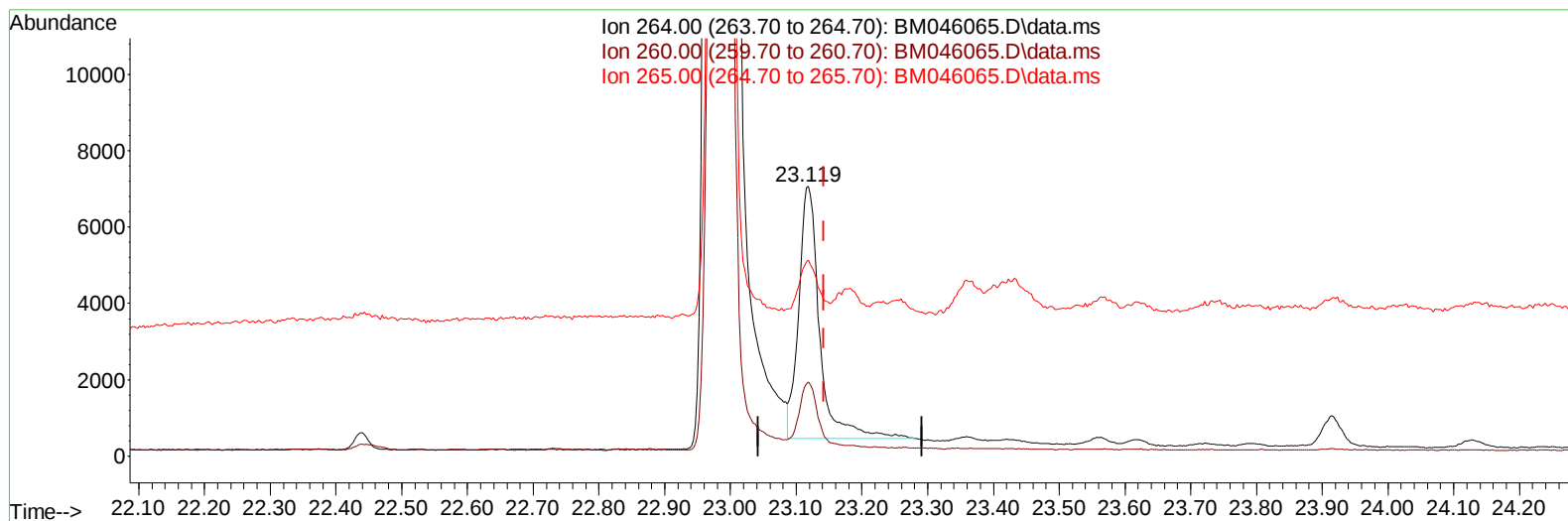
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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TIC: BM046065.D\data.ms

(23) Perylene-d12 (I)

23.119min (-0.023) 0.40 ng/u1

response 14374

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 28.20  | 27.50  |
| 265.00 | 110.60 | 72.76# |
| 0.00   | 0.00   | 0.00   |

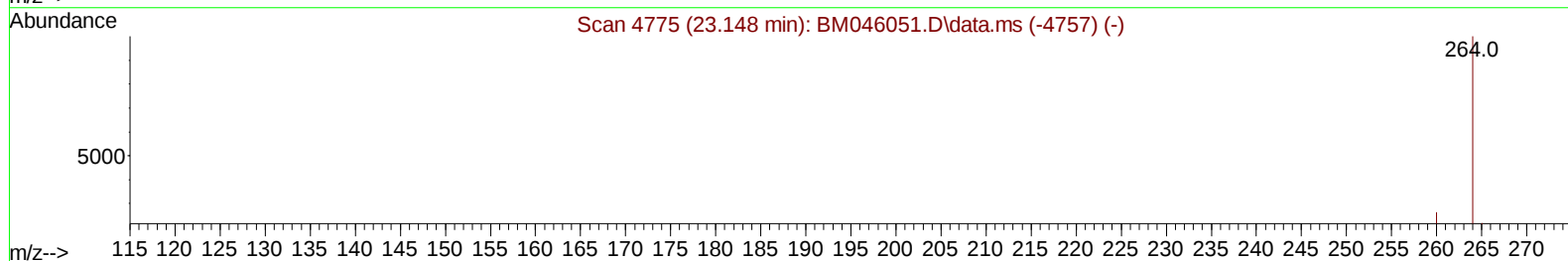
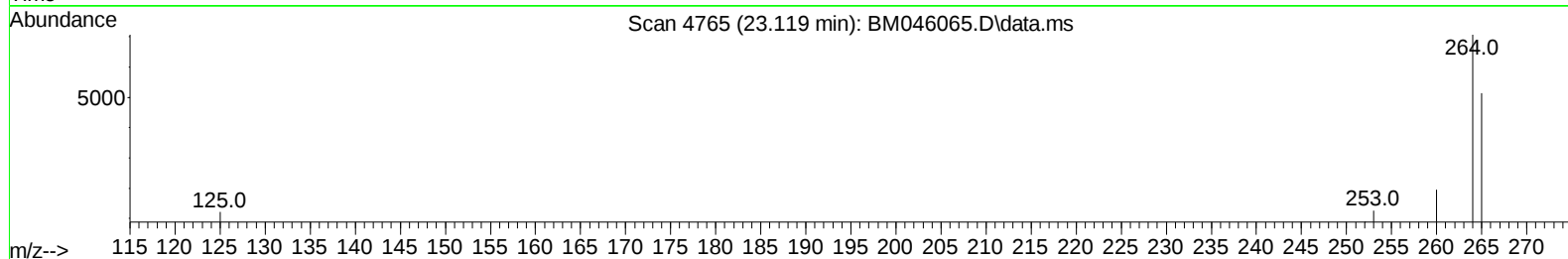
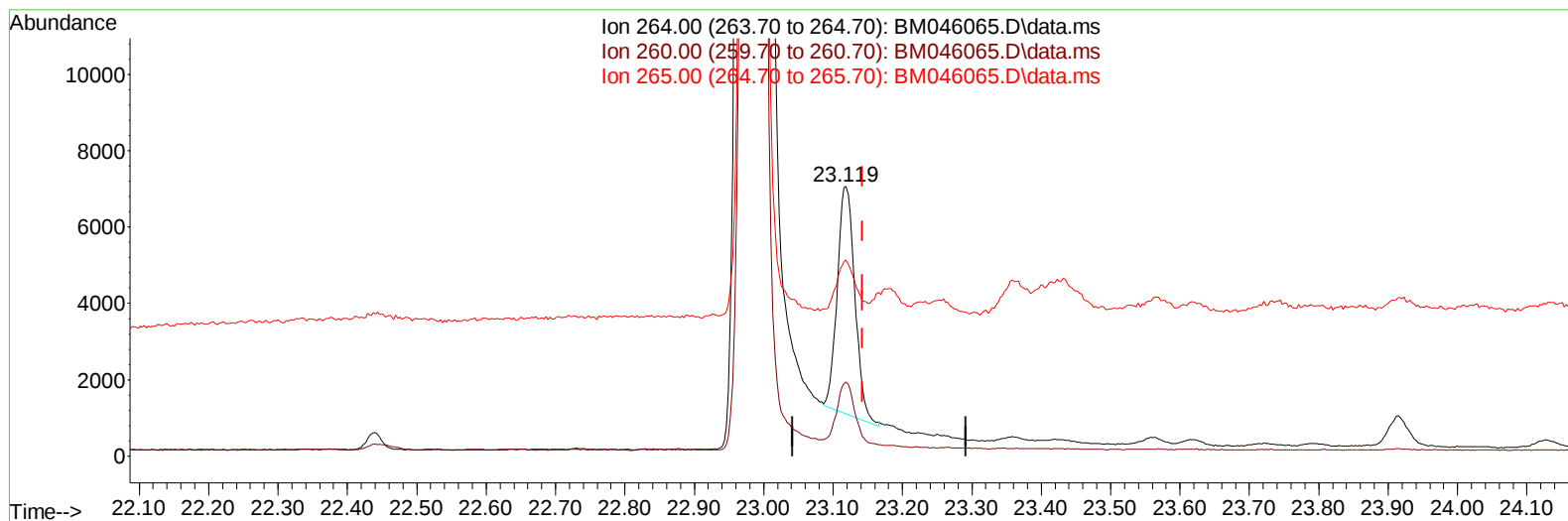
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
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TIC: BM046065.D\data.ms

(23) Perylene-d12 (I)

23.119min (-0.023) 0.40 ng/ul m

response 10530

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 28.20  | 27.50  |
| 265.00 | 110.60 | 72.76# |
| 0.00   | 0.00   | 0.00   |

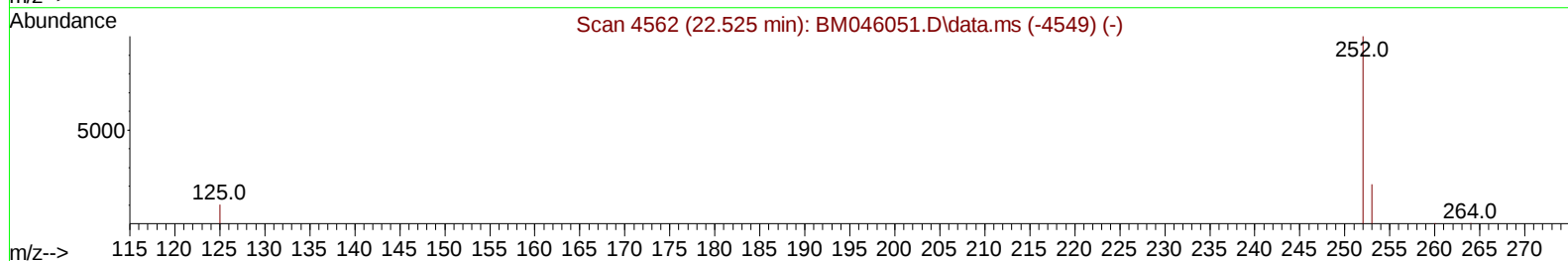
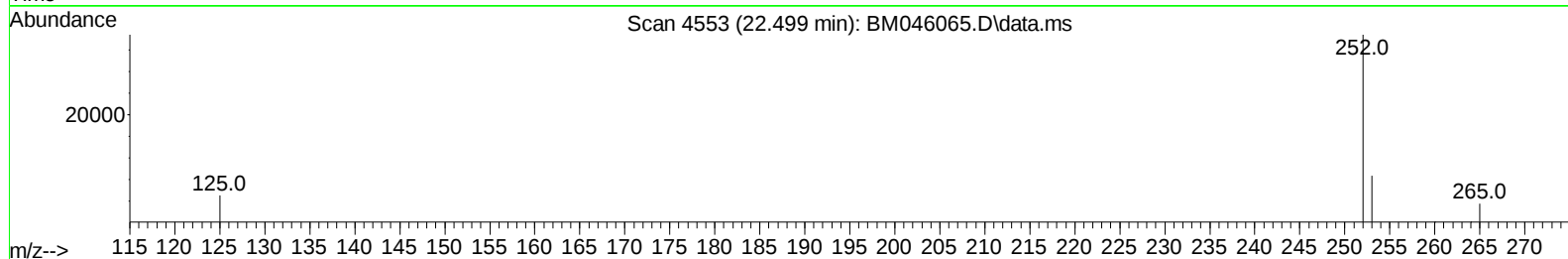
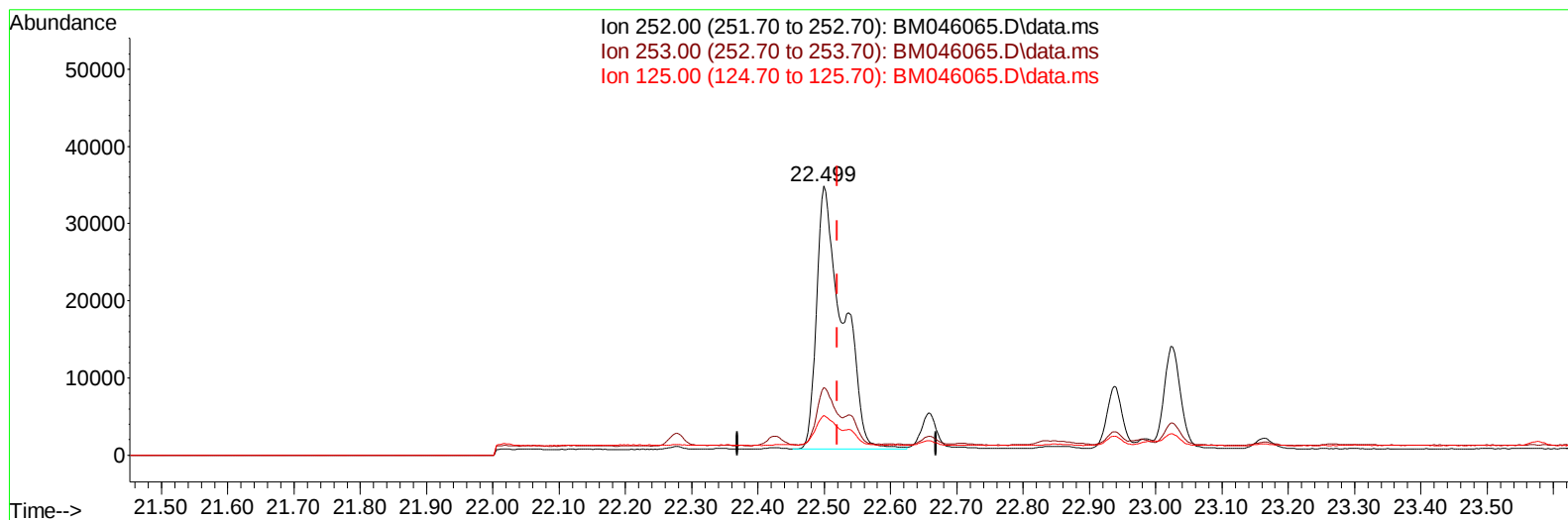
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
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QLast Update : Tue Jun 18 13:58:29 2024  
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TIC: BM046065.D\data.ms

(24) Benzo(b)fluoranthene

22.499min (-0.020) 2.46 ng/u1

response 93402

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 32.90  | 25.22  |
| 125.00 | 20.10  | 14.66  |
| 0.00   | 0.00   | 0.00   |

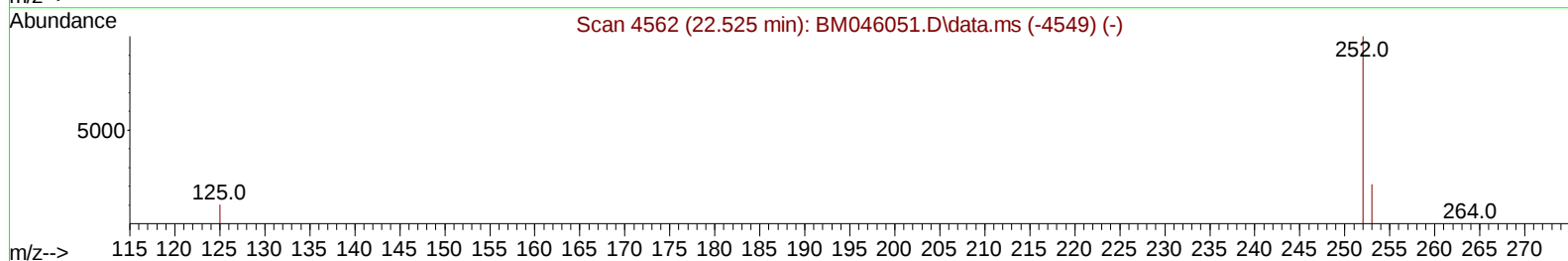
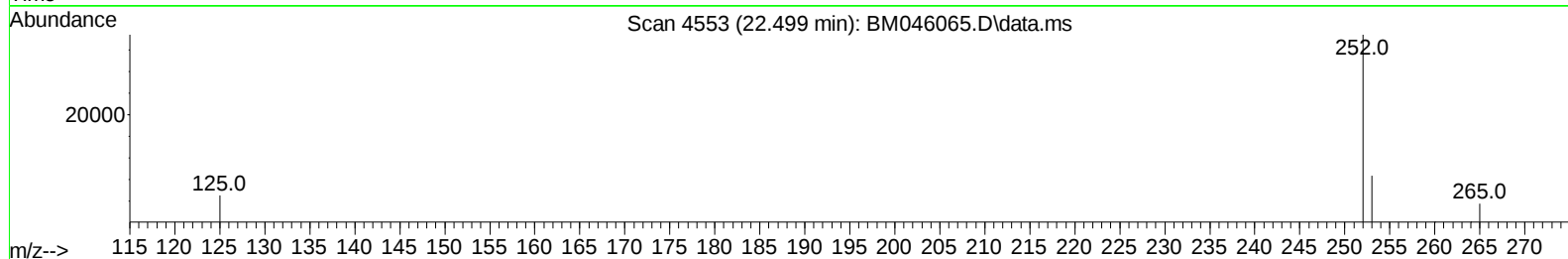
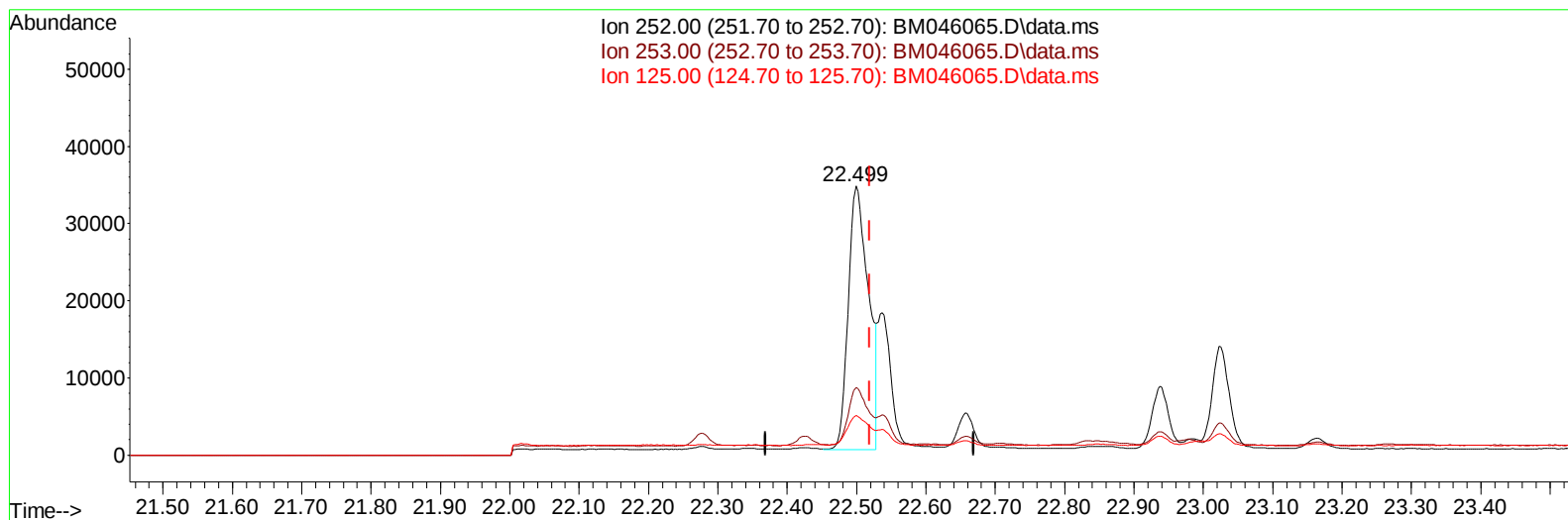
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
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Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

(24) Benzo(b)fluoranthene

22.499min (-0.020) 1.83 ng/u1 m

response 69502

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 32.90  | 25.22  |
| 125.00 | 20.10  | 14.66  |
| 0.00   | 0.00   | 0.00   |

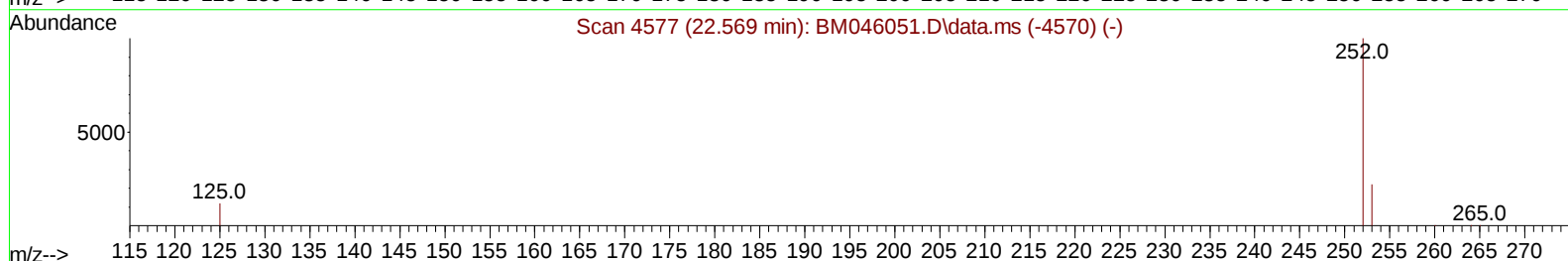
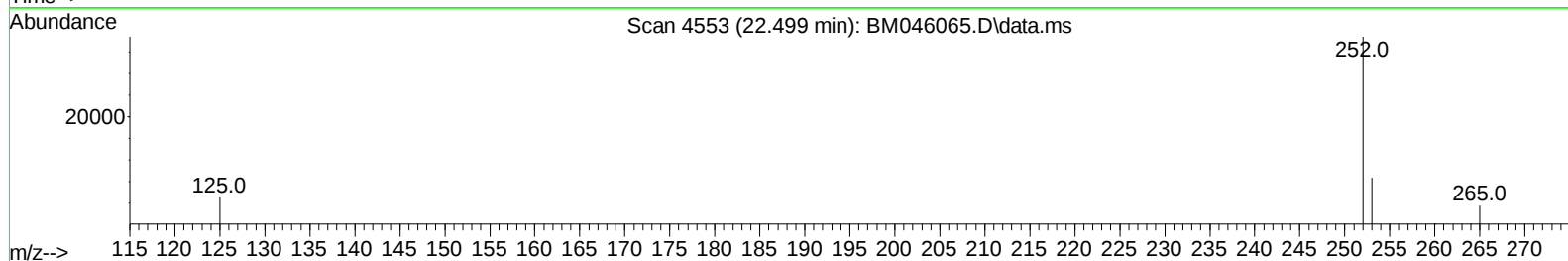
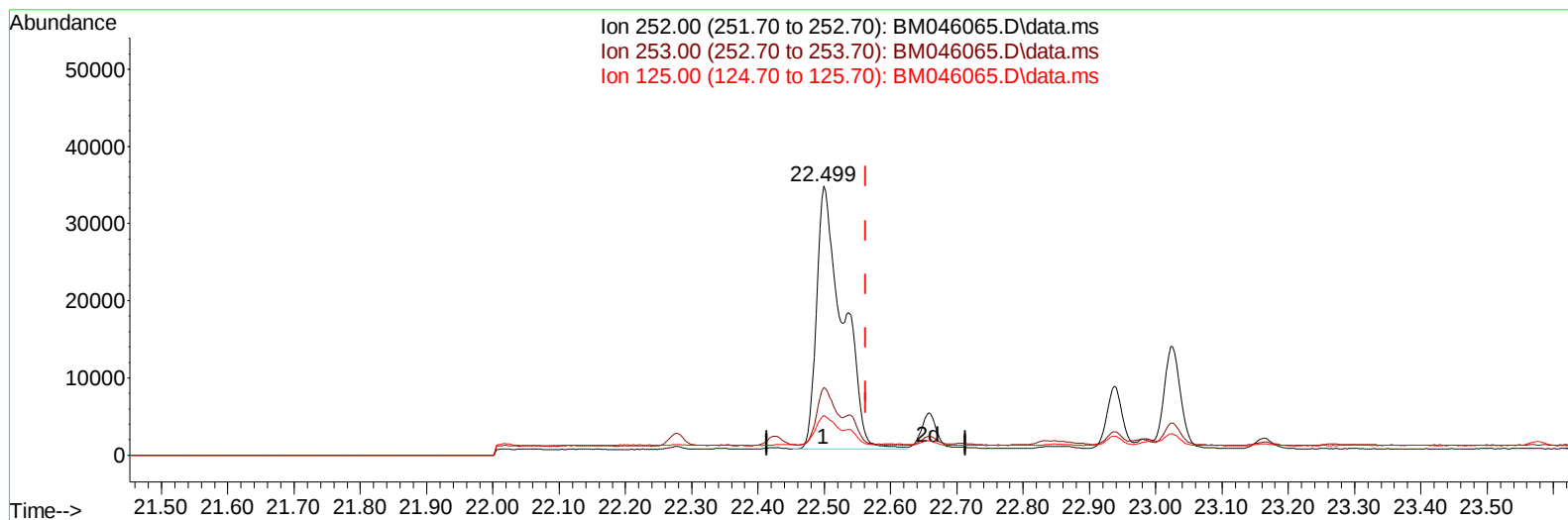
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/19/2024  
Supervised By :mohammad ahmed 06/21/2024



TIC: BM046065.D\data.ms

(25) Benzo(k)fluoranthene

22.499min (-0.064) 2.07 ng/u1

response 93402

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 34.00  | 25.22# |
| 125.00 | 20.80  | 14.66# |
| 0.00   | 0.00   | 0.00   |

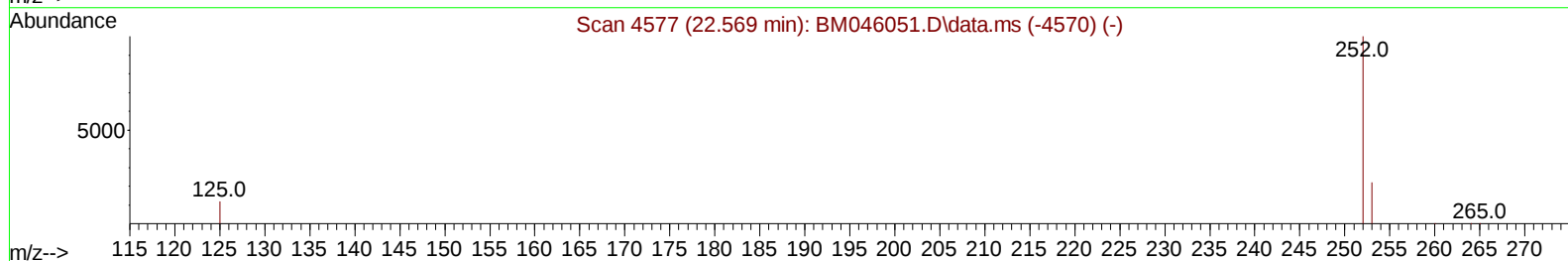
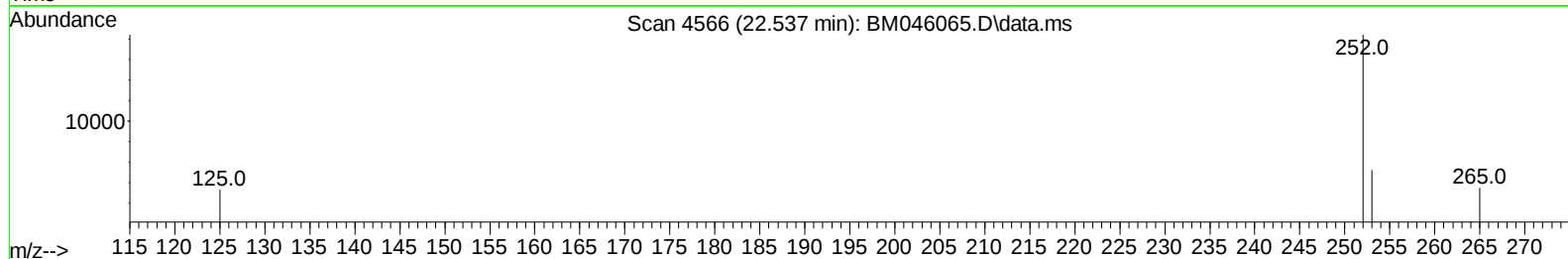
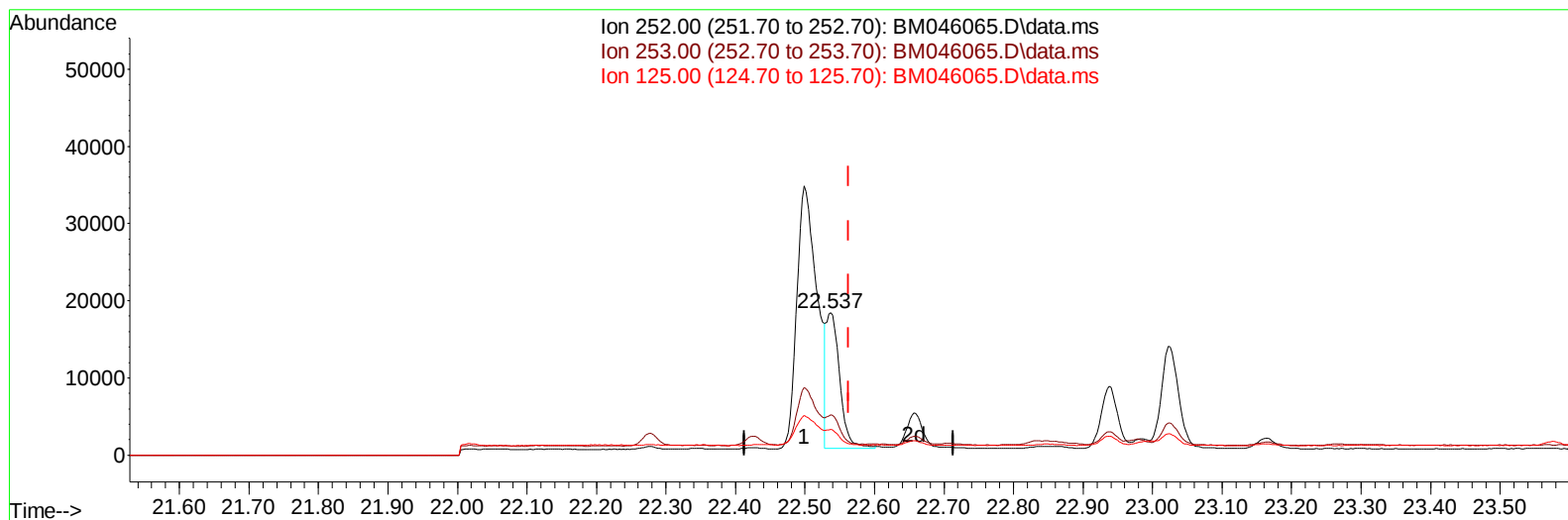
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
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TIC: BM046065.D\data.ms

(25) Benzo(k)fluoranthene

22.537min (-0.026) 0.52 ng/u1 m

response 23377

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 34.00  | 28.29  |
| 125.00 | 20.80  | 17.93  |
| 0.00   | 0.00   | 0.00   |

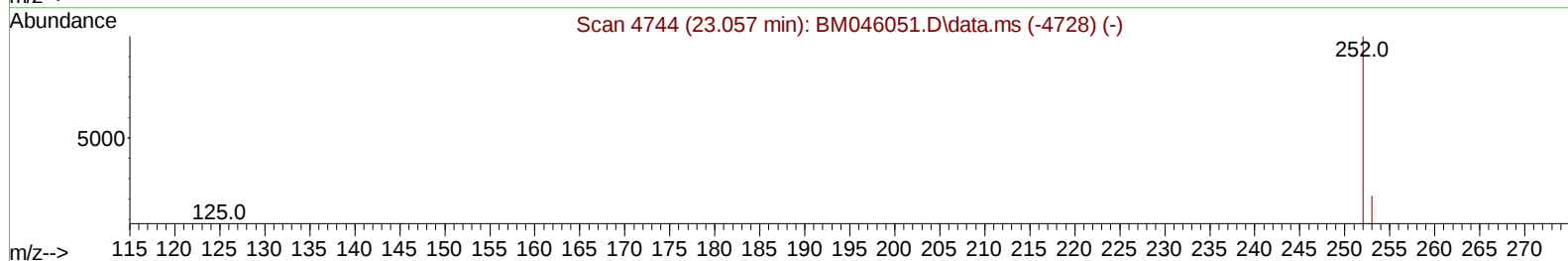
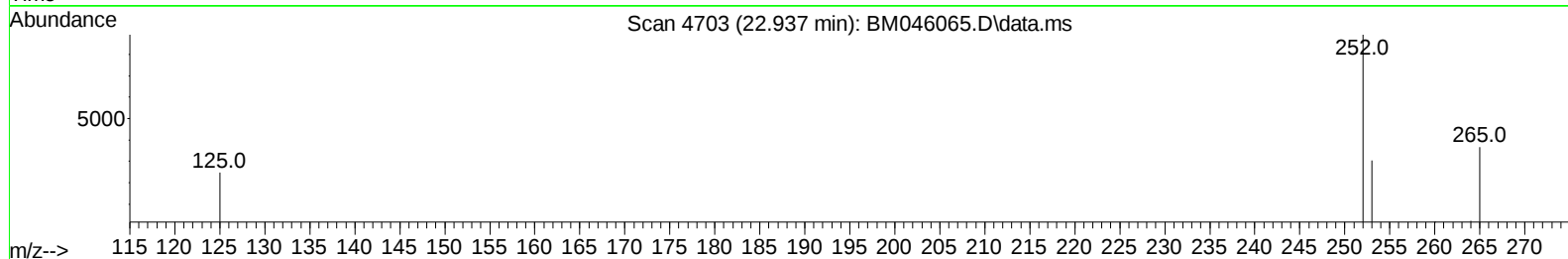
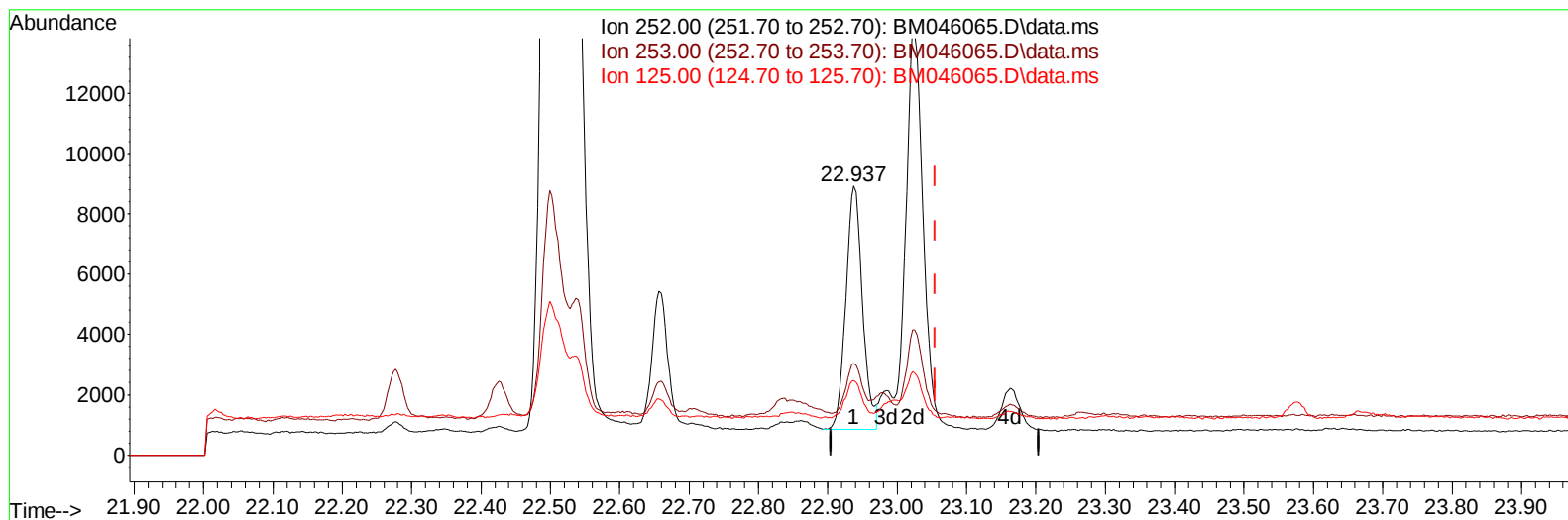
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
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TIC: BM046065.D\data.ms

(26) Benzo(a)pyrene (C)

22.937min (-0.117) 0.38 ng/u1

response 13412

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 40.10  | 34.15  |
| 125.00 | 26.50  | 27.68  |
| 0.00   | 0.00   | 0.00   |

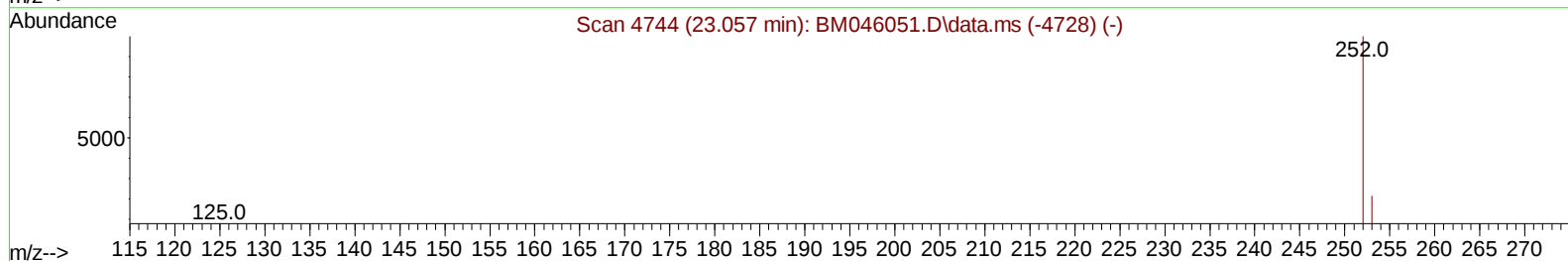
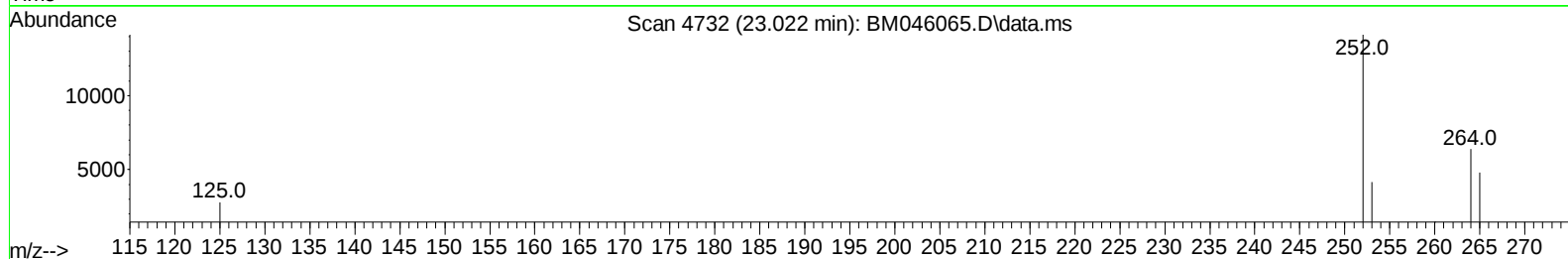
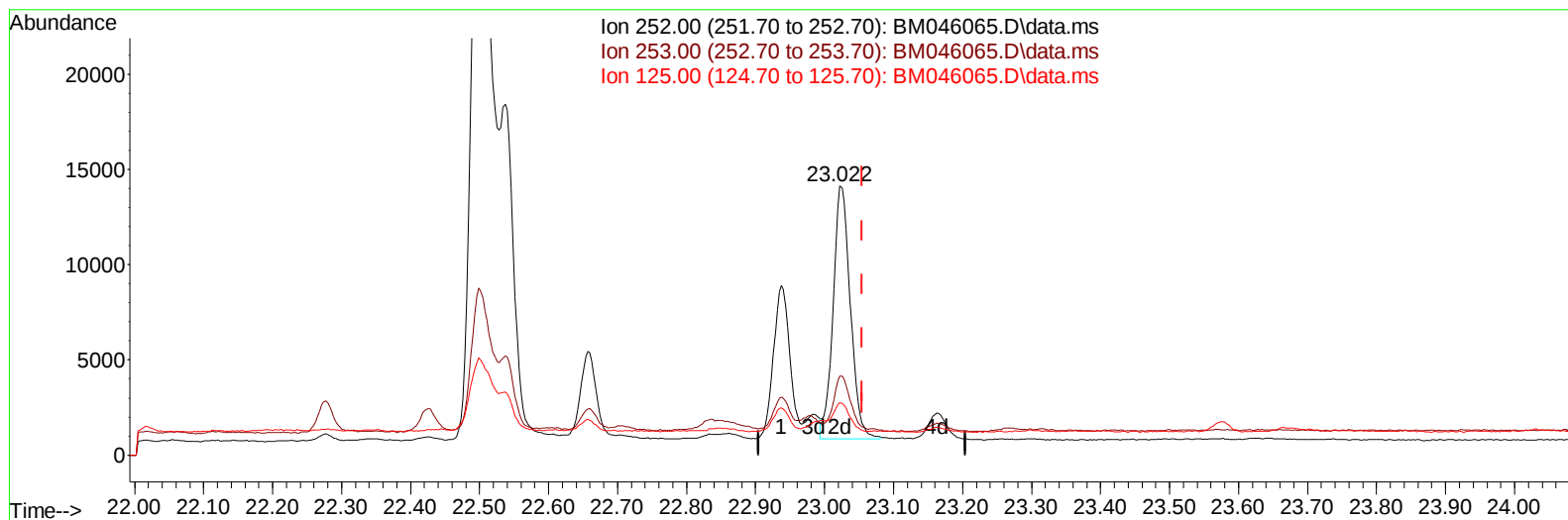
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
Data File : BM046065.D  
Acq On : 18 Jun 2024 23:41  
Operator : MA/JU  
Sample : P2695-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
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TIC: BM046065.D\data.ms

(26) Benzo(a)pyrene (C)

23.022min (-0.032) 0.66 ng/u1 m

response 23093

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 40.10  | 29.45# |
| 125.00 | 26.50  | 19.58# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061824\  
 Data File : BM046065.D  
 Acq On : 18 Jun 2024 23:41  
 Operator : MA/JU  
 Sample : P2695-13  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4BL1

Manual IntegrationsAPPROVED

Quant Time: Jun 19 08:24:51 2024  
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 18 13:58:29 2024  
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| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.434  | 152  | 3561     | 0.400 | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.204 | 136  | 10248    | 0.400 | ng/ul  | #-0.05   |
| 9) Acenaphthene-d10         | 14.080 | 164  | 5536     | 0.400 | ng/ul  | -0.03    |
| 13) Phenanthrene-d10        | 16.823 | 188  | 11920m   | 0.400 | ng/ul  | -0.04    |
| 17) Chrysene-d12            | 21.023 | 240  | 9614m    | 0.400 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 23.119 | 264  | 10530m   | 0.400 | ng/ul  | -0.02    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.037  | 96   | 16459    | 3.369 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.826 | 152  | 3507     | 0.255 | ng/ul  | -0.04    |
| 18) Fluoranthene-d10        | 18.857 | 212  | 8776     | 0.305 | ng/ul  | -0.03    |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.253 | 128  | 1878     | 0.066 | ng/ul# | 92       |
| 7) 2-Methylnaphthalene      | 11.903 | 142  | 526      | 0.033 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.118 | 142  | 461      | 0.026 | ng/ul  | 95       |
| 10) Acenaphthylene          | 13.798 | 152  | 2669     | 0.102 | ng/ul# | 93       |
| 11) Acenaphthene            | 14.145 | 153  | 1704     | 0.090 | ng/ul  | 97       |
| 12) Fluorene                | 15.135 | 166  | 2028     | 0.100 | ng/ul  | 97       |
| 15) Phenanthrene            | 16.866 | 178  | 42558m   | 1.271 | ng/ul  |          |
| 16) Anthracene              | 16.954 | 178  | 7287m    | 0.292 | ng/ul  |          |
| 19) Fluoranthene            | 18.889 | 202  | 100156   | 2.406 | ng/ul  | 96       |
| 20) Pyrene                  | 19.247 | 202  | 67233    | 1.493 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.006 | 228  | 40729    | 1.097 | ng/ul  | 100      |
| 22) Chrysene                | 21.059 | 228  | 48092    | 1.015 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.499 | 252  | 69502m   | 1.832 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.537 | 252  | 23377m   | 0.518 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.022 | 252  | 23093m   | 0.657 | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.172 | 276  | 25619    | 0.445 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 25.172 | 278  | 7763     | 0.181 | ng/ul# | 89       |
| 29) Benzo(g,h,i)perylene    | 25.796 | 276  | 3739     | 0.076 | ng/ul# | 73       |
| -----                       |        |      |          |       |        |          |

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

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