

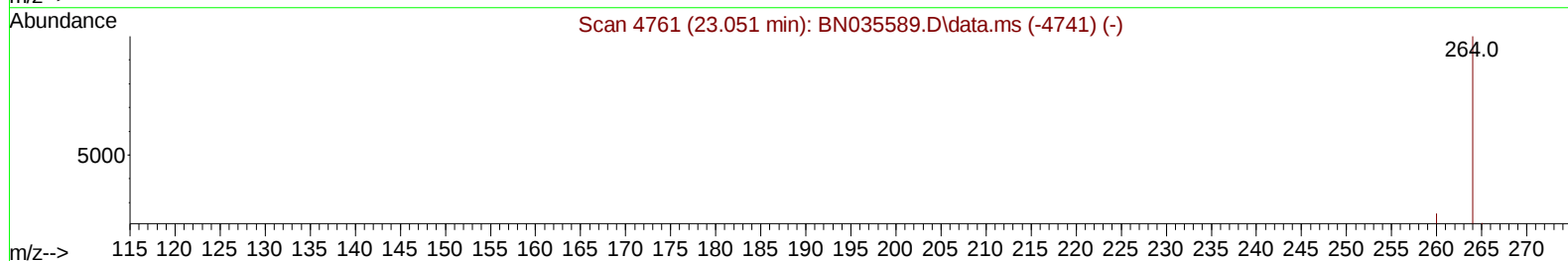
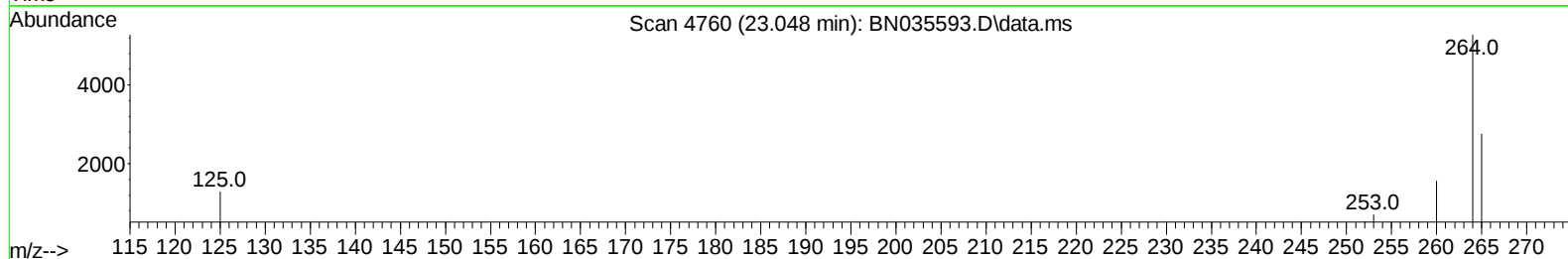
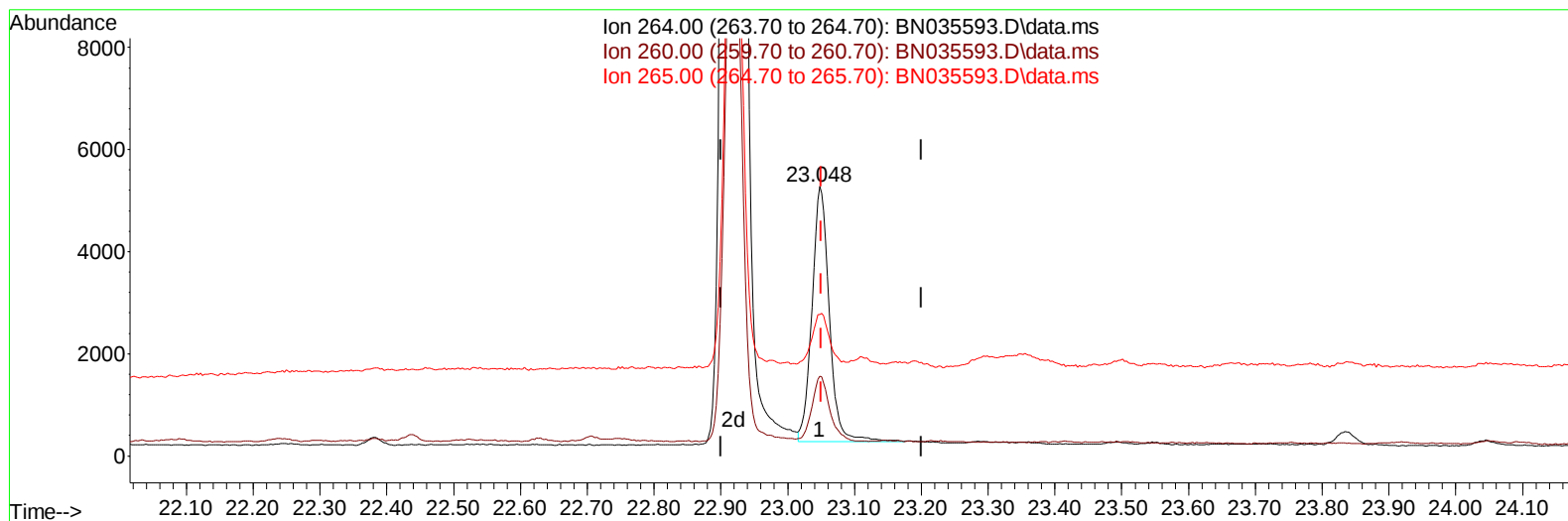
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:08:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 10 16:10:57 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035593.D\data.ms

(23) Perylene-d12 (I)

23.048min (-0.003) 0.40 ng/u1

response 8981

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.20  | 29.66  |
| 265.00 | 75.50  | 52.37# |
| 0.00   | 0.00   | 0.00   |

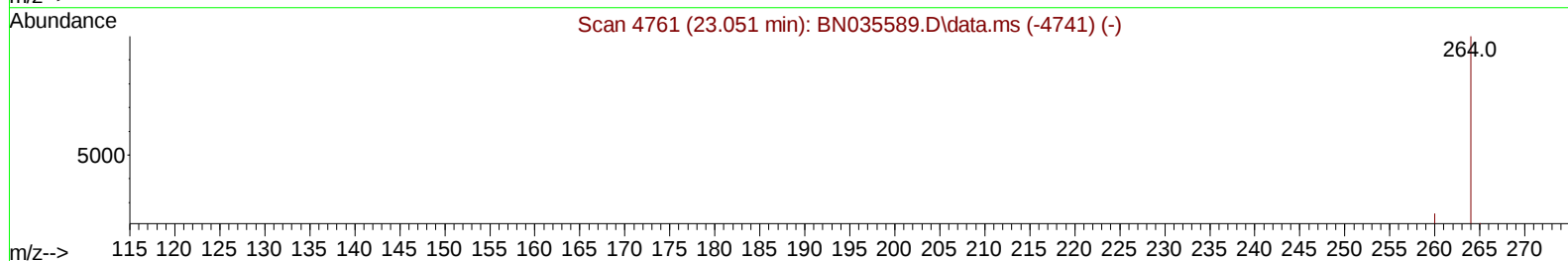
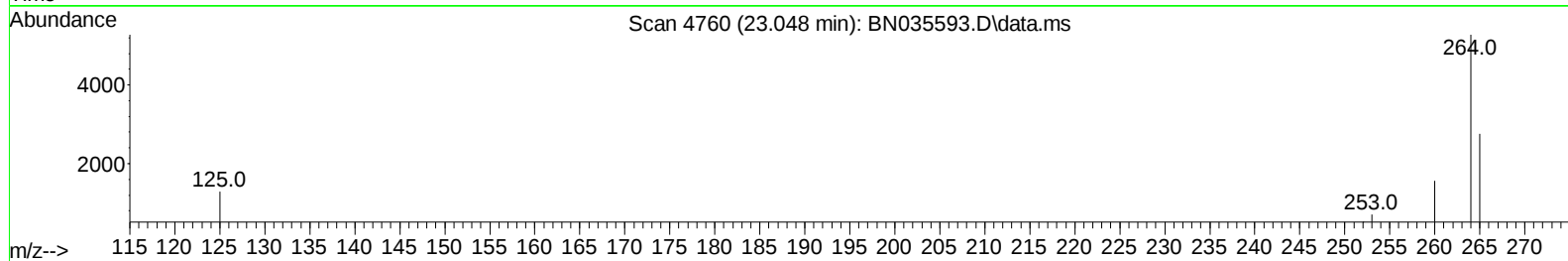
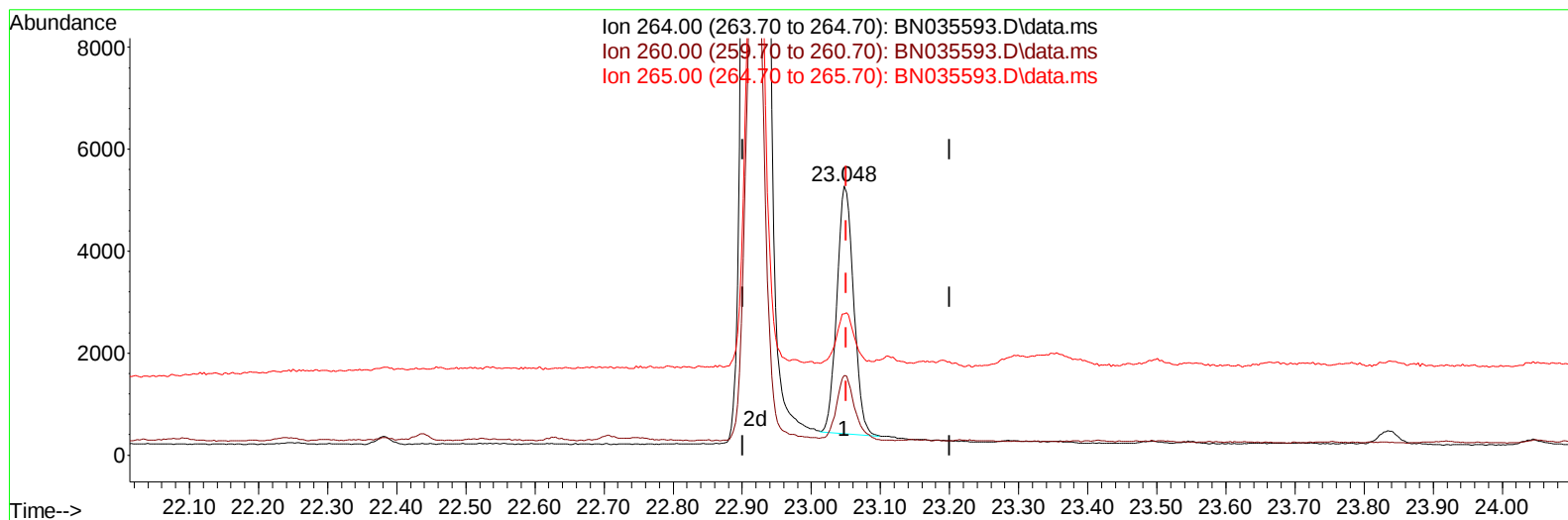
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
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Instrument :  
BNA\_N  
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Manual IntegrationsAPPROVED

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Reviewed By :Yogesh Patel 12/14/2024  
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TIC: BN035593.D\data.ms

(23) Perylene-d12 (I)

23.048min (-0.003) 0.40 ng/u1 m

response 8197

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.20  | 29.66  |
| 265.00 | 75.50  | 52.37# |
| 0.00   | 0.00   | 0.00   |

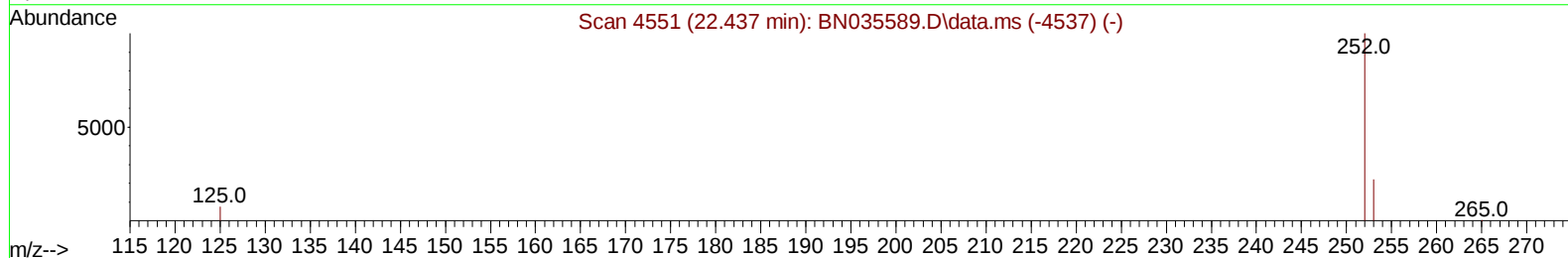
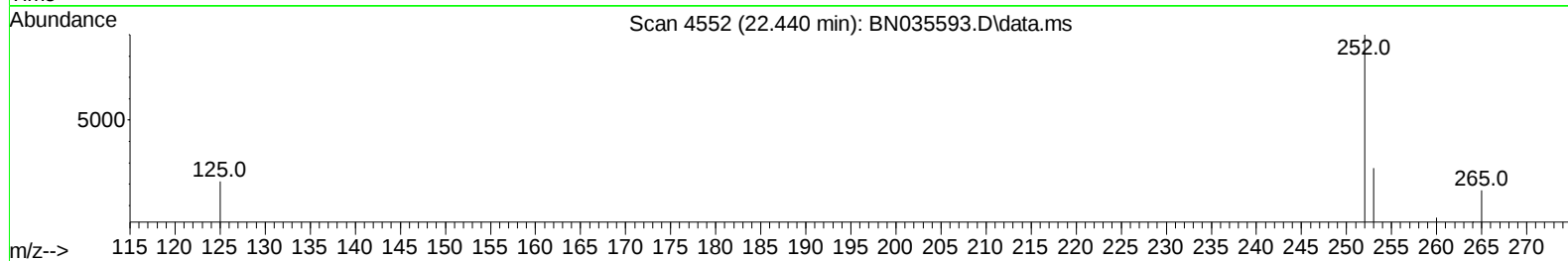
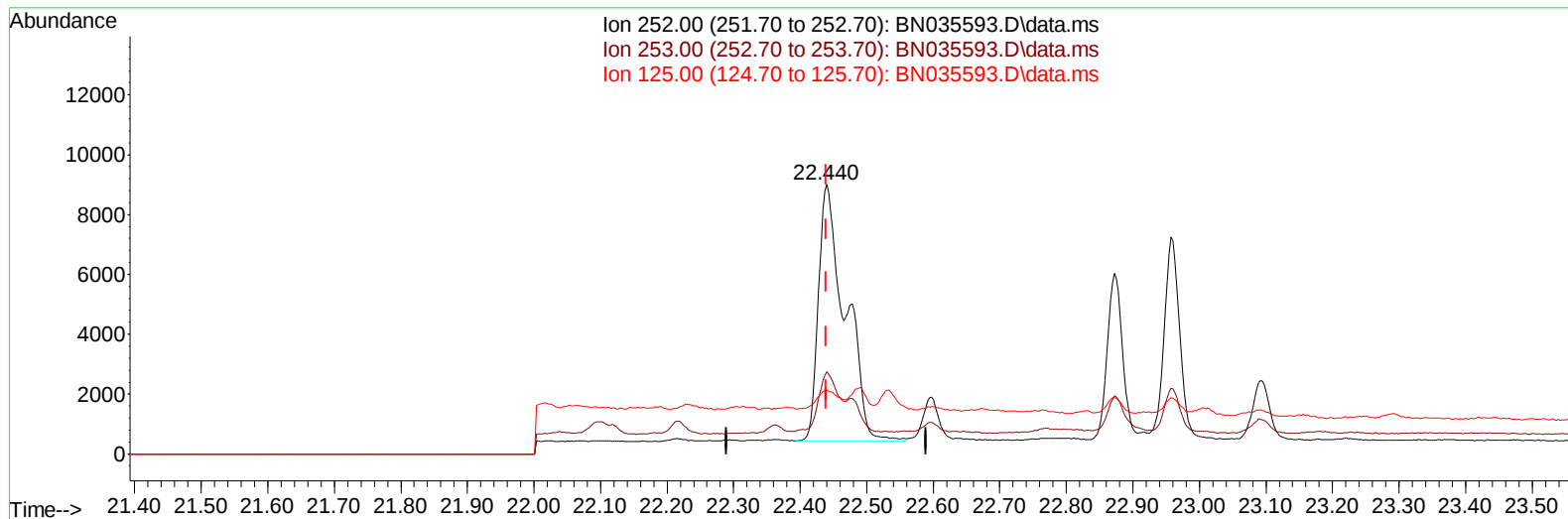
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:08:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
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Supervised By :mohammad ahmed 12/14/2024



TIC: BN035593.D\data.ms

(24) Benzo(b)fluoranthene

22.440min (+ 0.000) 0.88 ng/u1

response 23856

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 27.00  | 30.46  |
| 125.00 | 9.70   | 23.70# |
| 0.00   | 0.00   | 0.00   |

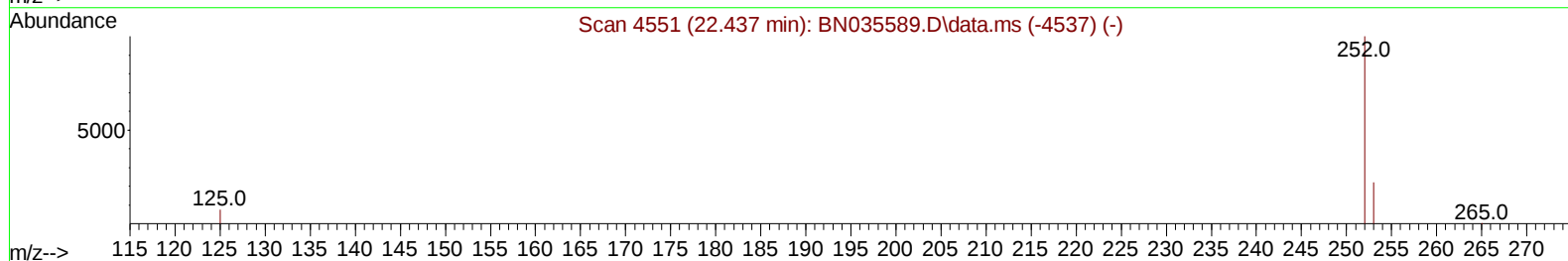
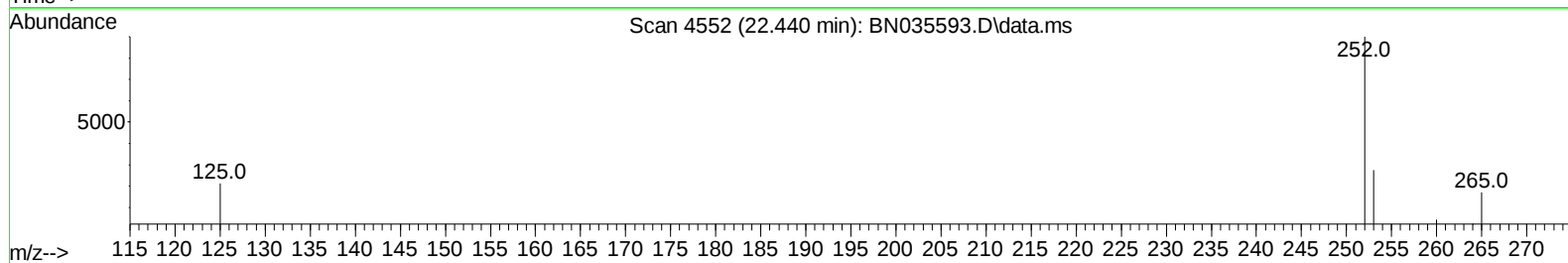
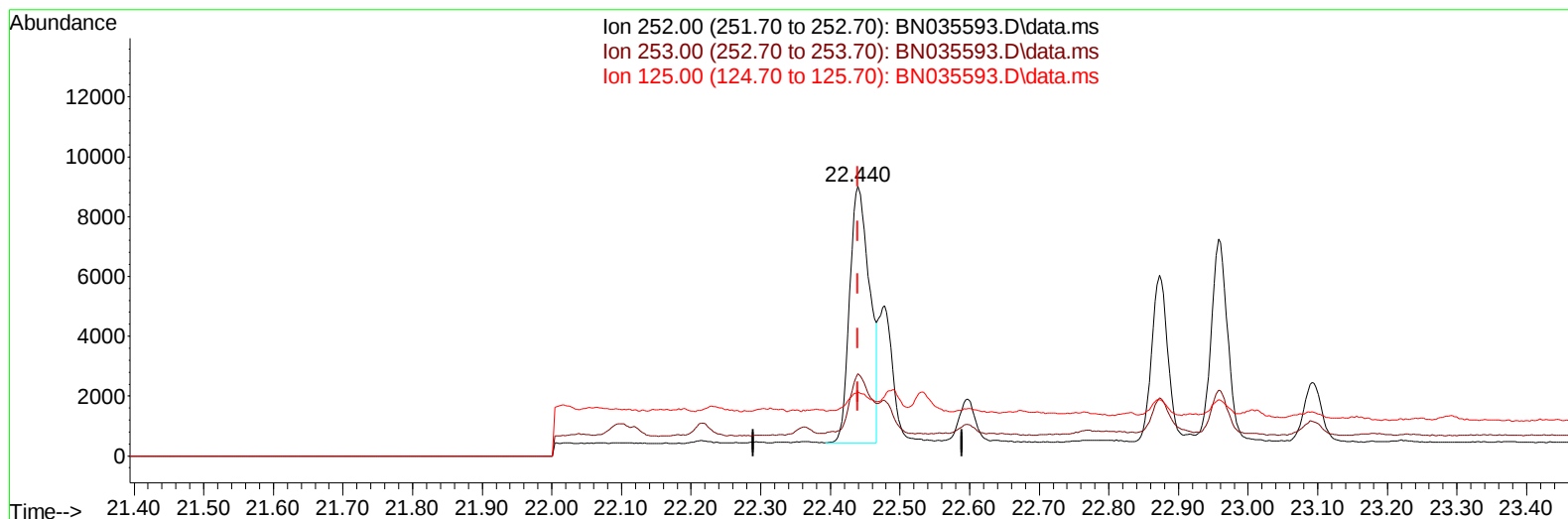
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:08:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
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QLast Update : Tue Dec 10 16:10:57 2024  
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Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035593.D\data.ms

(24) Benzo(b)fluoranthene

22.440min (+ 0.000) 0.63 ng/u1 m

response 17156

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 27.00  | 30.46  |
| 125.00 | 9.70   | 23.70# |
| 0.00   | 0.00   | 0.00   |

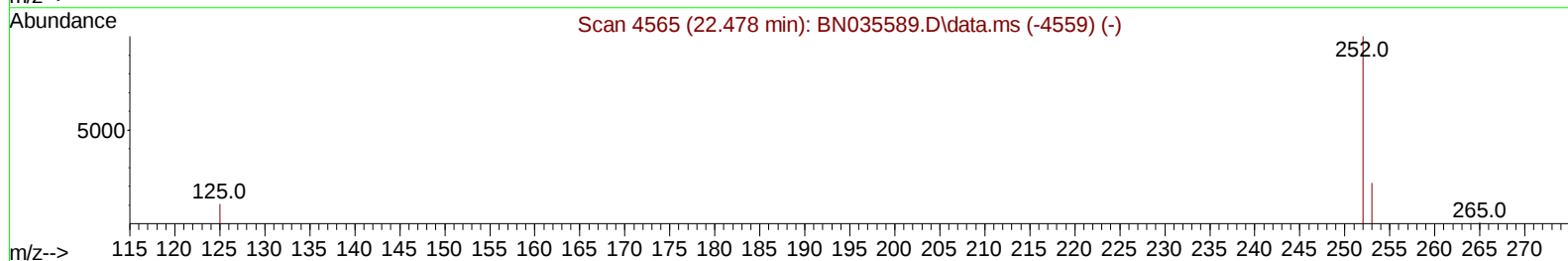
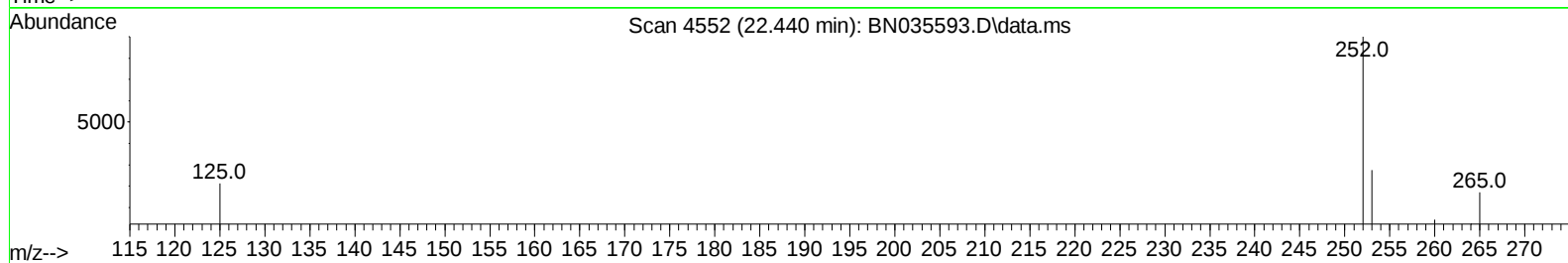
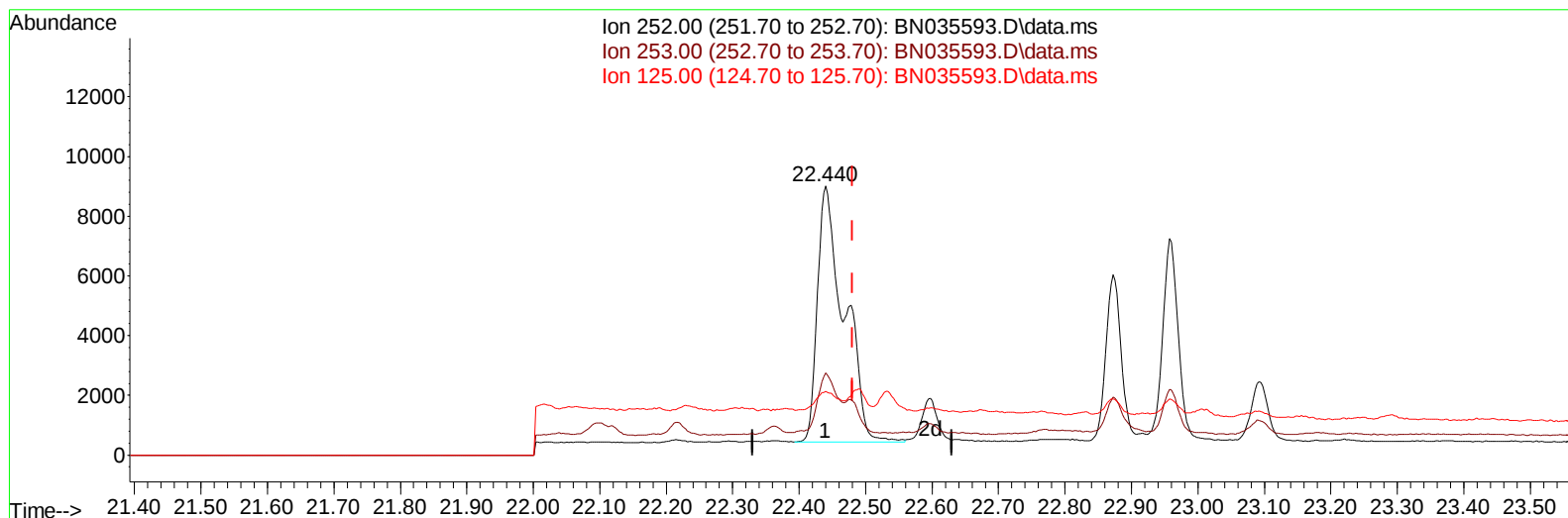
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:08:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 10 16:10:57 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035593.D\data.ms

(25) Benzo(k)fluoranthene

22.440min (-0.041) 0.85 ng/u1

response 23856

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 27.20  | 30.46  |
| 125.00 | 10.70  | 23.70# |
| 0.00   | 0.00   | 0.00   |

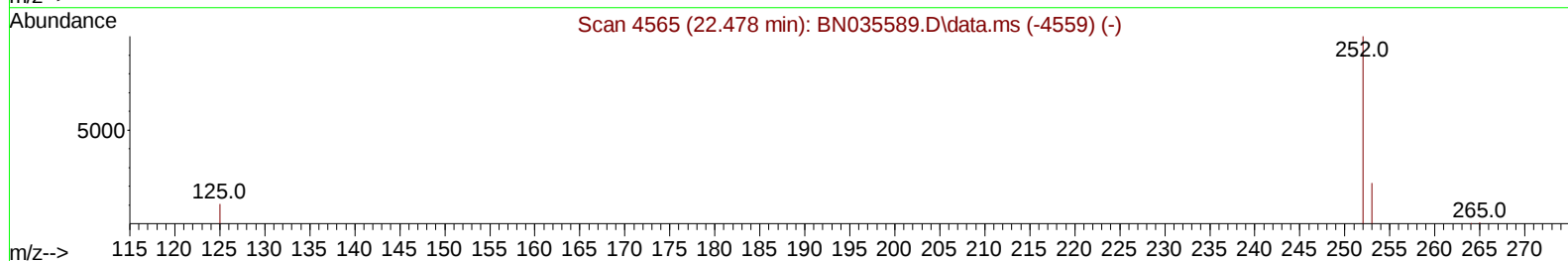
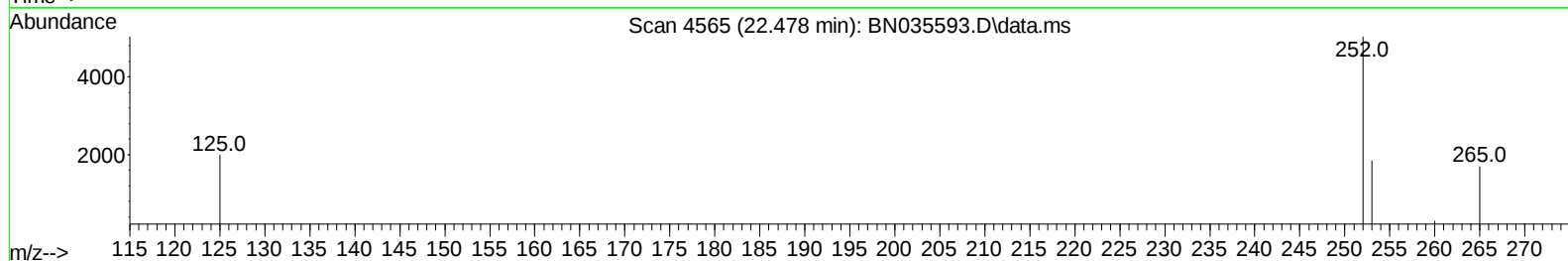
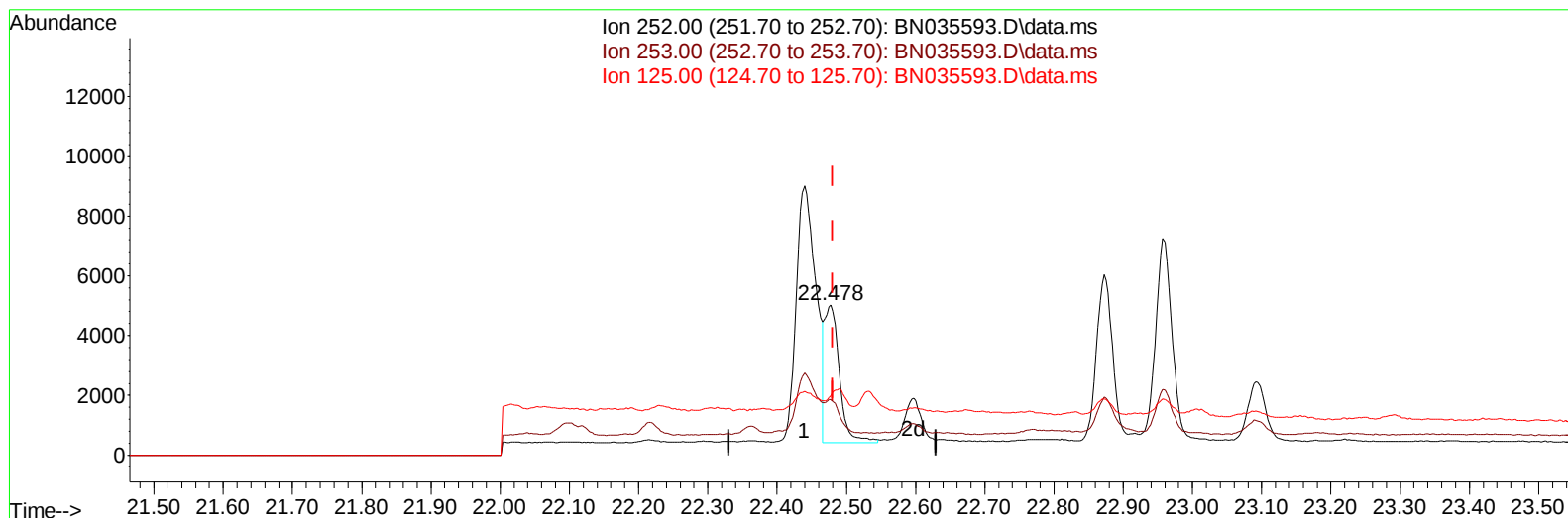
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:08:39 2024  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 10 16:10:57 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035593.D\data.ms

(25) Benzo(k)fluoranthene

22.478min (-0.003) 0.24 ng/u1 m

response 6718

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 27.20  | 36.76# |
| 125.00 | 10.70  | 39.60# |
| 0.00   | 0.00   | 0.00   |

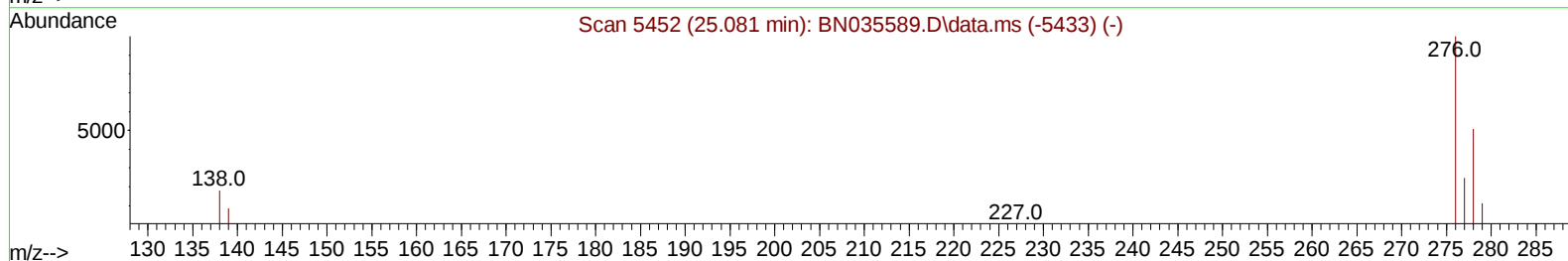
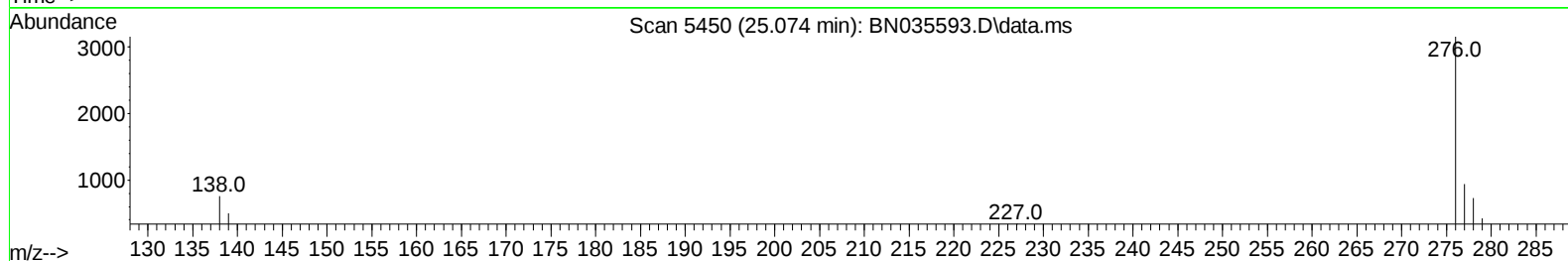
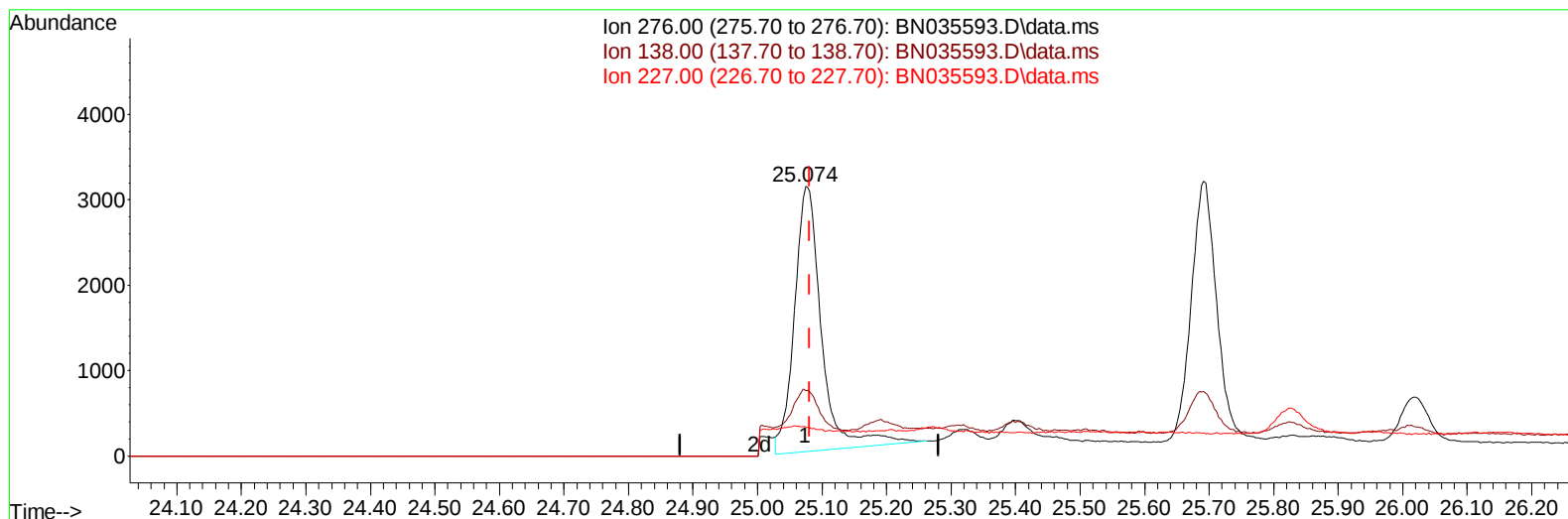
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

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TIC: BN035593.D\data.ms

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

25.074min (-0.007) 0.27 ng/u1

response 9080

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 17.30  | 14.16  |
| 227.00 | 0.30   | 53.05# |
| 0.00   | 0.00   | 0.00   |

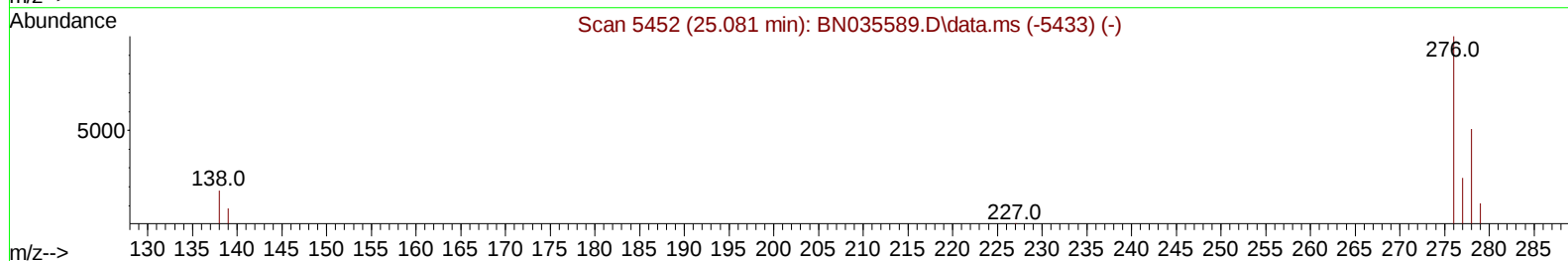
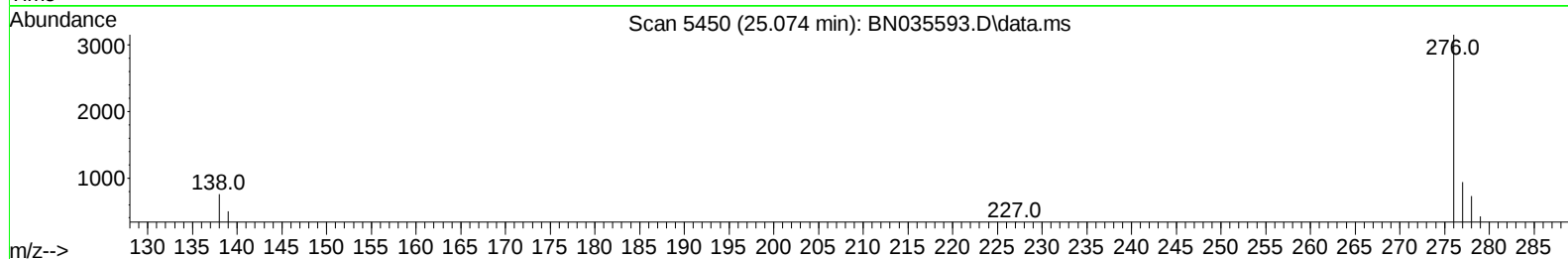
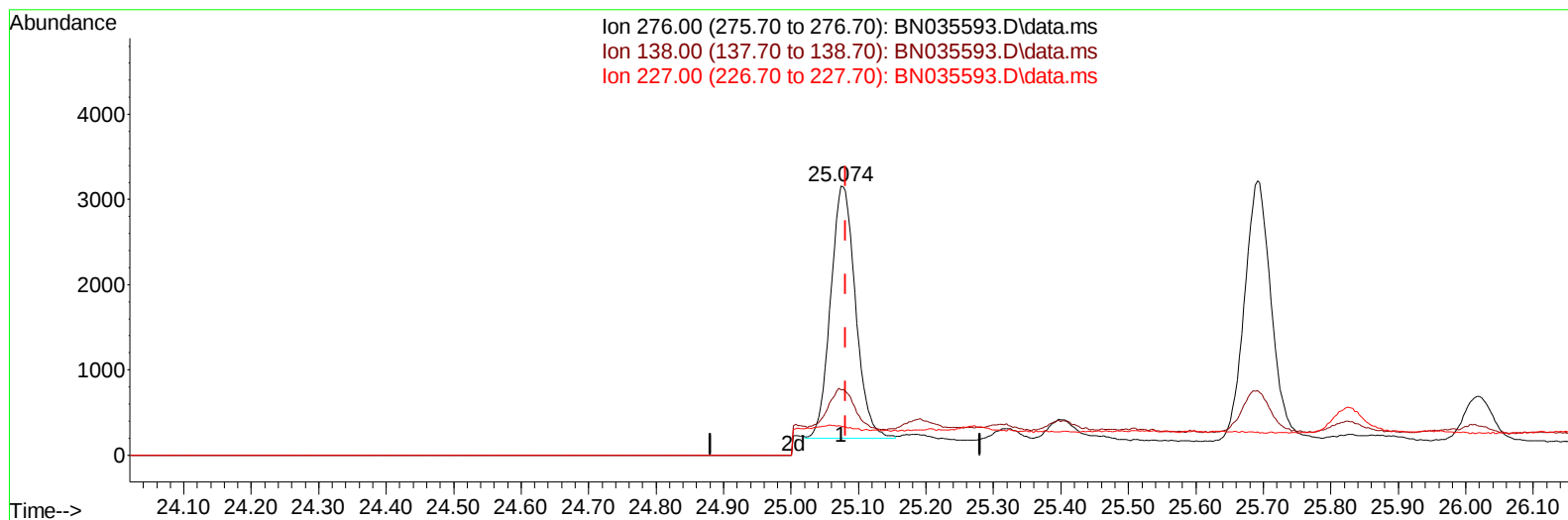
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:08:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
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Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024



TIC: BN035593.D\data.ms

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

25.074min (-0.007) 0.23 ng/ul m

response 7578

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 17.30  | 16.97  |
| 227.00 | 0.30   | 63.57# |
| 0.00   | 0.00   | 0.00   |

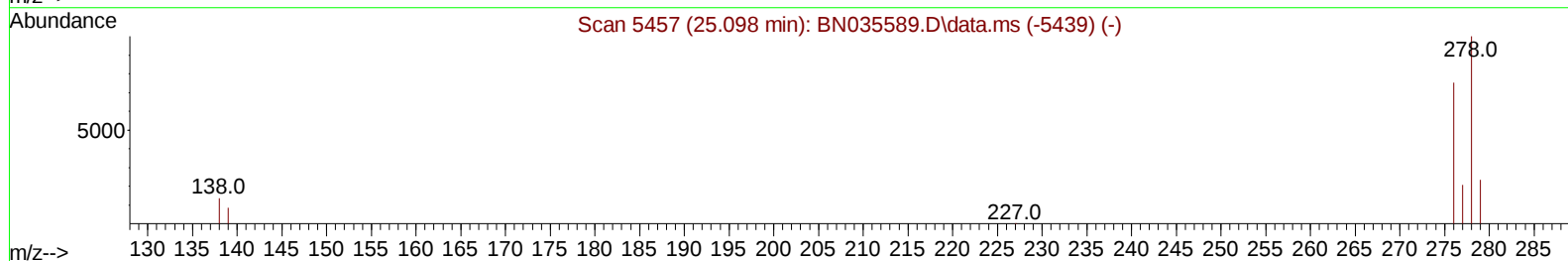
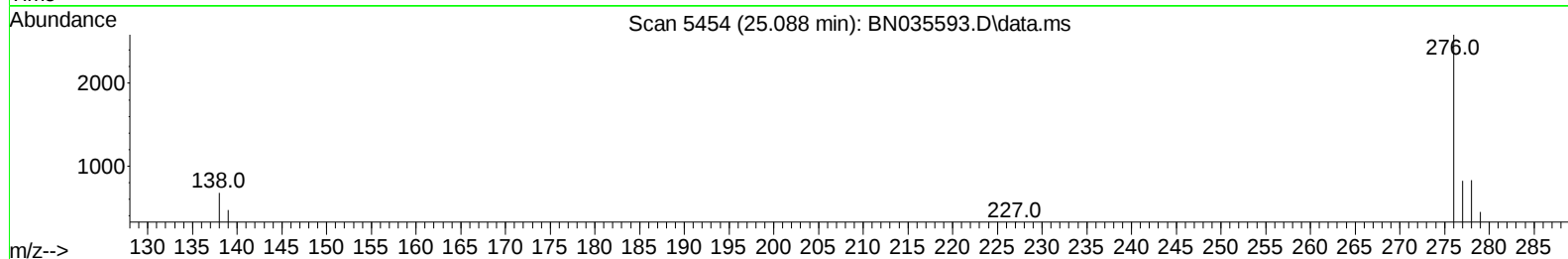
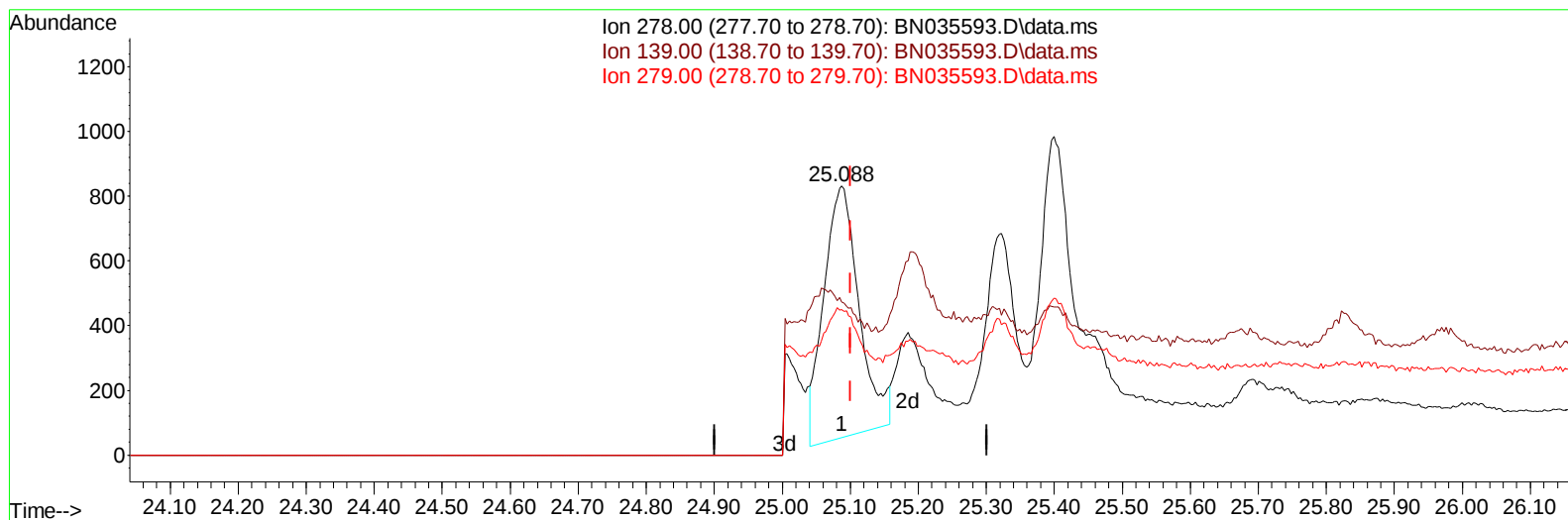
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Data File : BN035593.D  
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Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024

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TIC: BN035593.D\data.ms

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

25.088min (-0.013) 0.11 ng/u1

response 2803

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 13.40  | 56.92# |
| 279.00 | 28.50  | 54.15# |
| 0.00   | 0.00   | 0.00   |

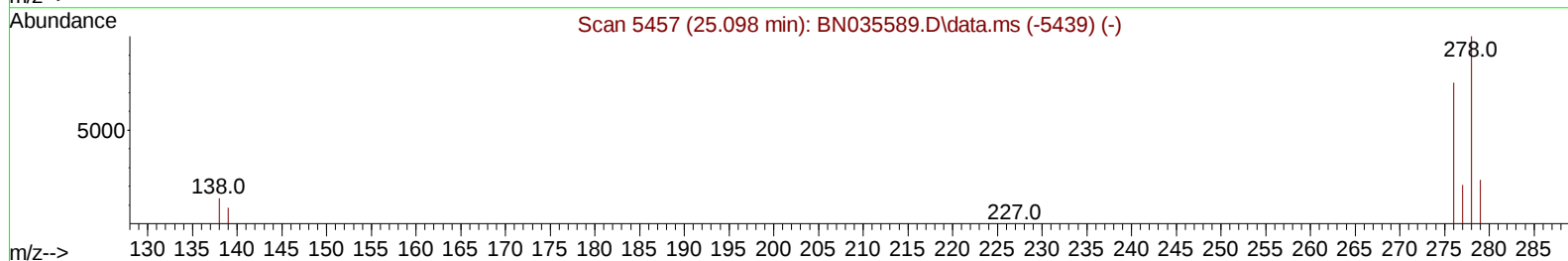
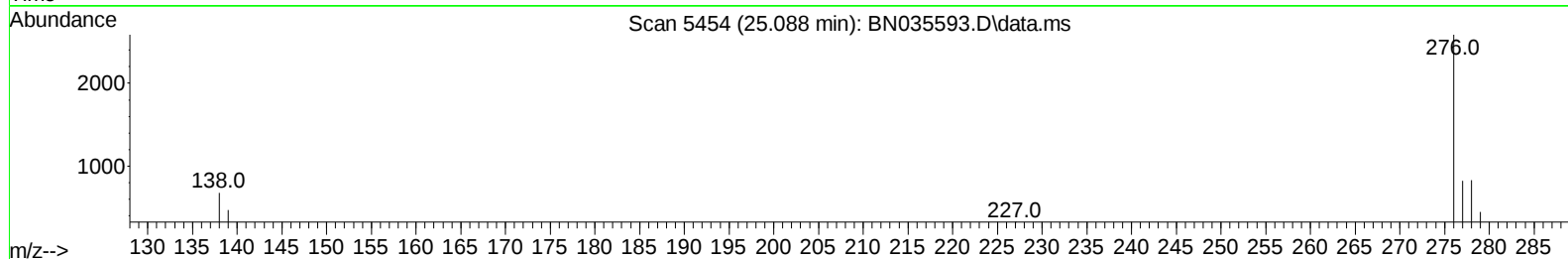
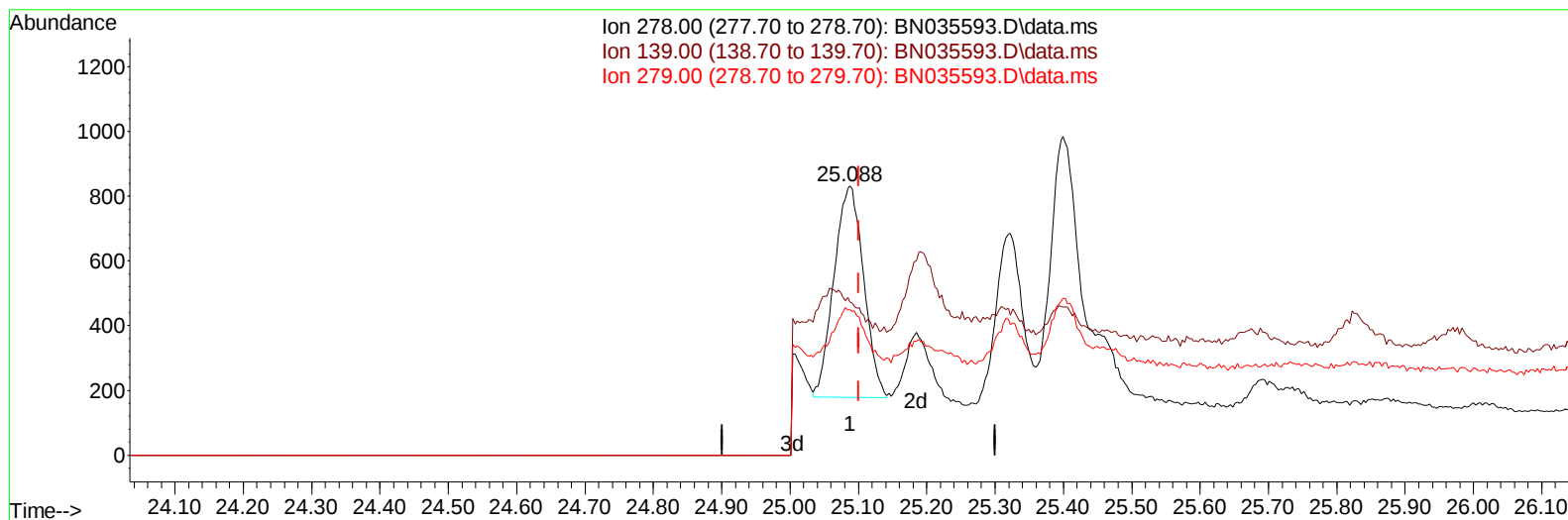
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Data File : BN035593.D  
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Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

Manual IntegrationsAPPROVED

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TIC: BN035593.D\data.ms

(28) Dibenzo(a,h)anthracene

25.088min (-0.013) 0.08 ng/u1 m

response 1971

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 13.40  | 56.92# |
| 279.00 | 28.50  | 54.15# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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Manual IntegrationsAPPROVED

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| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.288  | 152  | 1801     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.031 | 136  | 5457     | 0.400 | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 13.949 | 164  | 3758     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.713 | 188  | 8704     | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 20.961 | 240  | 8306     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.048 | 264  | 8197m    | 0.400 | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 2.959  | 96   | 1382     | 0.840 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.637 | 152  | 487      | 0.061 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.768 | 212  | 1308     | 0.057 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.080 | 128  | 951      | 0.069 | ng/ul# | 83       |
| 7) 2-Methylnaphthalene      | 11.714 | 142  | 598      | 0.063 | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 11.939 | 142  | 458      | 0.048 | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.657 | 152  | 775      | 0.052 | ng/ul# | 75       |
| 11) Acenaphthene            | 14.009 | 153  | 602      | 0.053 | ng/ul  | 94       |
| 12) Fluorene                | 15.013 | 166  | 777      | 0.058 | ng/ul# | 93       |
| 15) Phenanthrene            | 16.755 | 178  | 17382    | 0.755 | ng/ul  | 100      |
| 16) Anthracene              | 16.848 | 178  | 4719     | 0.221 | ng/ul  | 96       |
| 19) Fluoranthene            | 18.795 | 202  | 26157    | 0.905 | ng/ul  | 97       |
| 20) Pyrene                  | 19.163 | 202  | 21865    | 0.727 | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 20.944 | 228  | 12060    | 0.418 | ng/ul# | 91       |
| 22) Chrysene                | 20.996 | 228  | 14384    | 0.496 | ng/ul# | 95       |
| 24) Benzo(b)fluoranthene    | 22.440 | 252  | 17156m   | 0.633 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.478 | 252  | 6718m    | 0.240 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 22.957 | 252  | 11128    | 0.449 | ng/ul# | 87       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.074 | 276  | 7578m    | 0.227 | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.088 | 278  | 1971m    | 0.075 | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 25.691 | 276  | 8538     | 0.324 | ng/ul# | 90       |
| -----                       |        |      |          |       |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121324\  
Data File : BN035593.D  
Acq On : 13 Dec 2024 12:42  
Operator : RC/JU  
Sample : P5153-15DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2DL

## Manual IntegrationsAPPROVED

Quant Time: Dec 13 15:08:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 10 16:10:57 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024

