

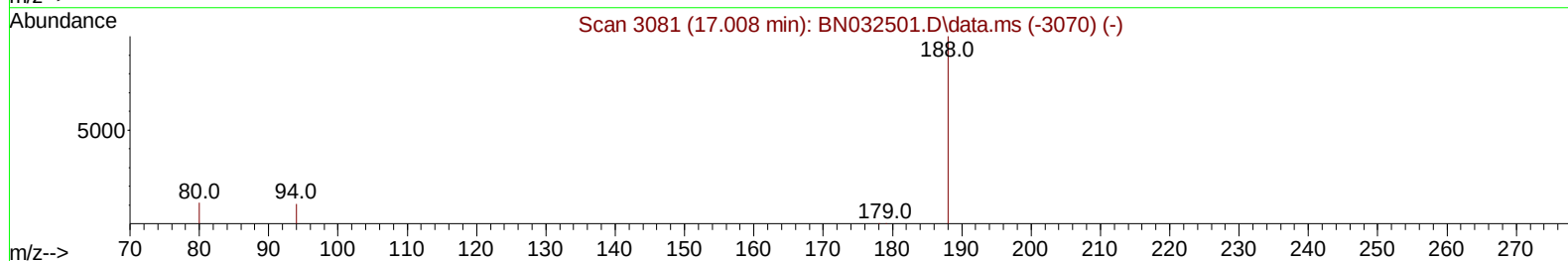
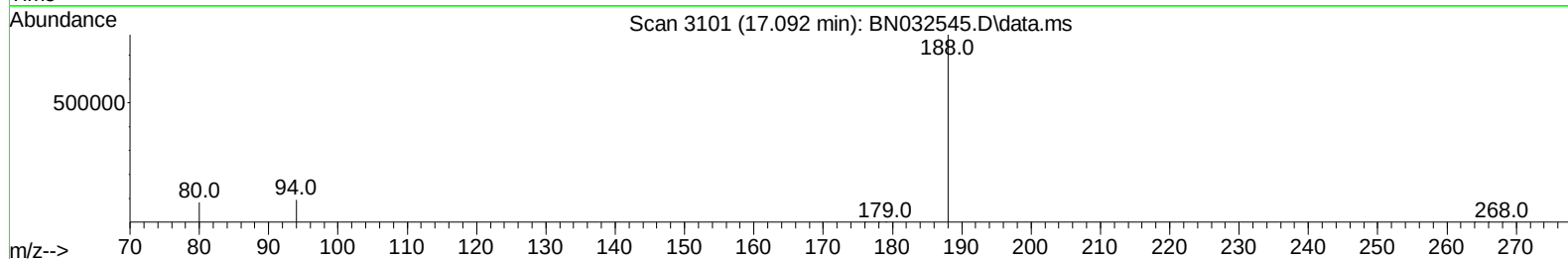
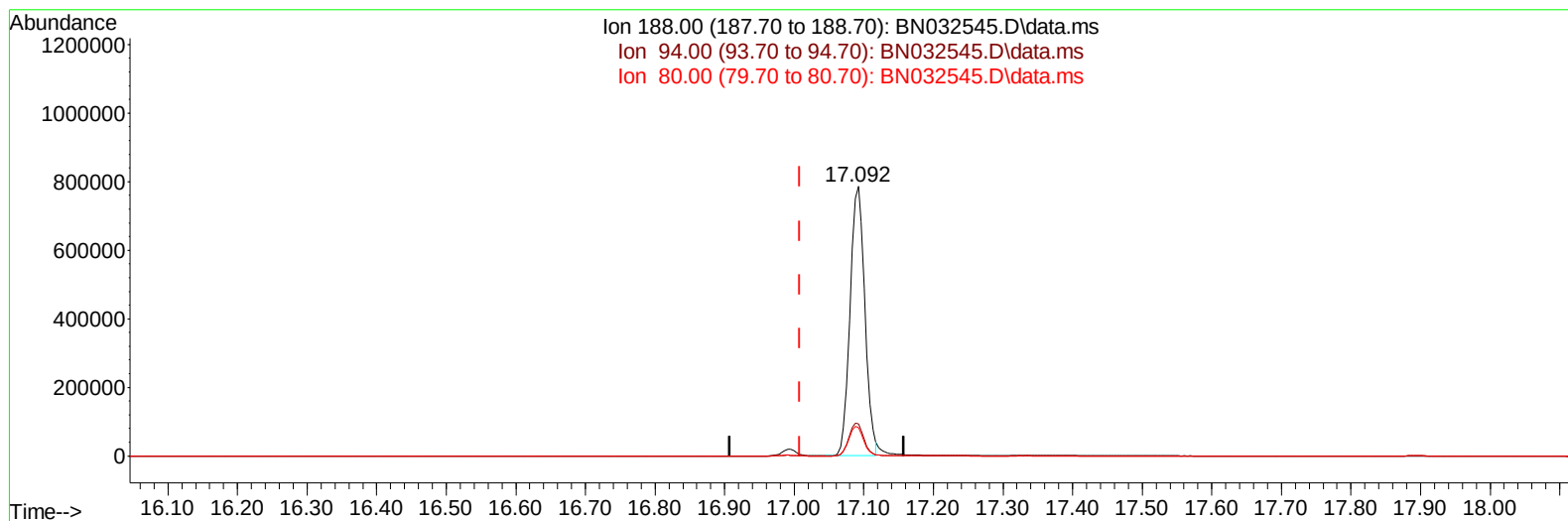
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

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

**17.092min (+ 0.084) 0.40 ng/u1**

**response 1161373**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 10.20  | 11.97  |
| 80.00  | 10.50  | 10.57  |
| 0.00   | 0.00   | 0.00   |

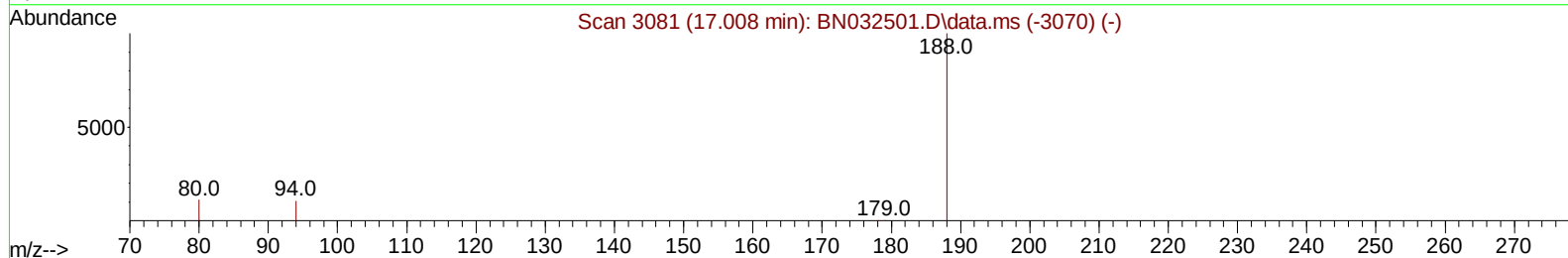
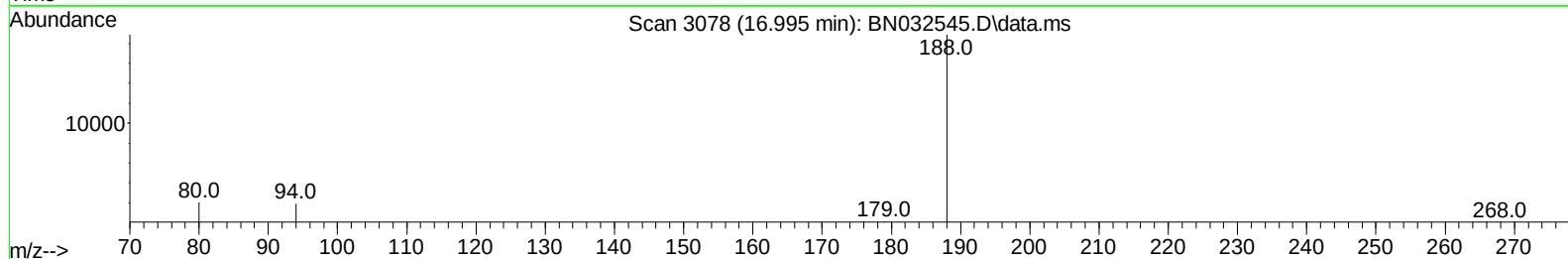
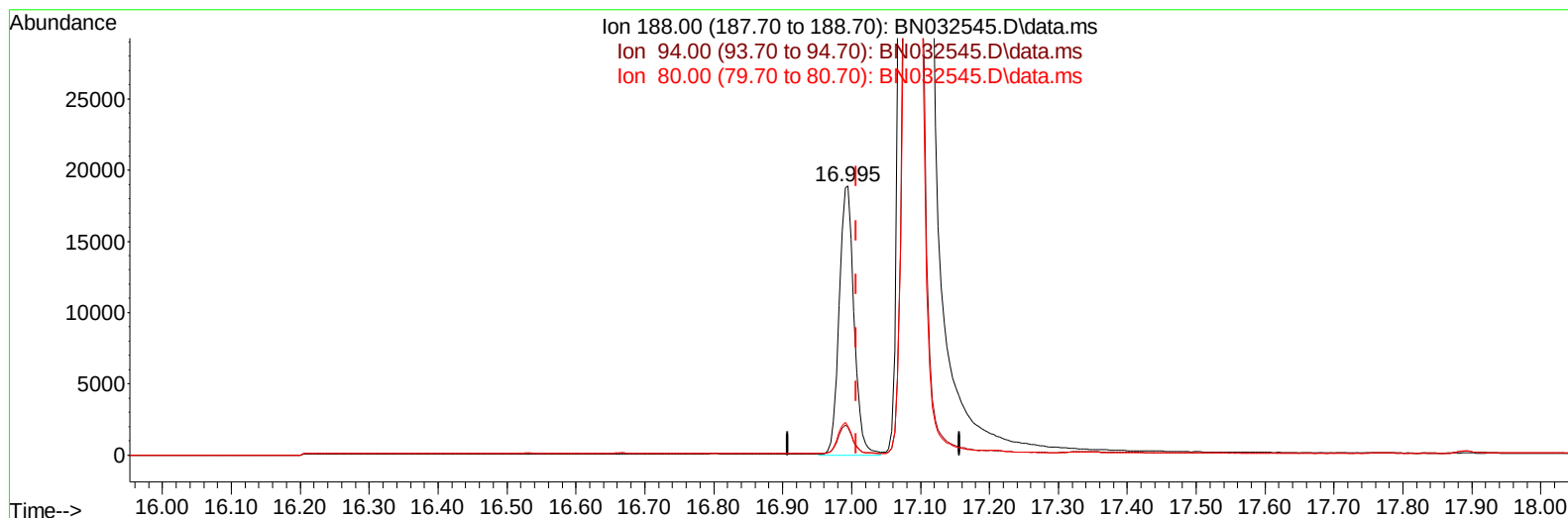
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(13) Phenanthrene-d10 (I)

16.995min (-0.013) 0.40 ng/ul m

response 28112

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 10.20  | 10.25  |
| 80.00  | 10.50  | 10.82  |
| 0.00   | 0.00   | 0.00   |

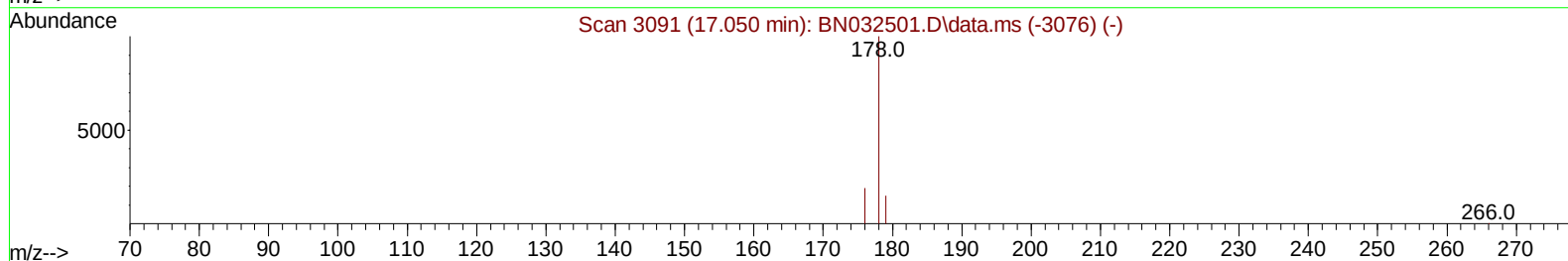
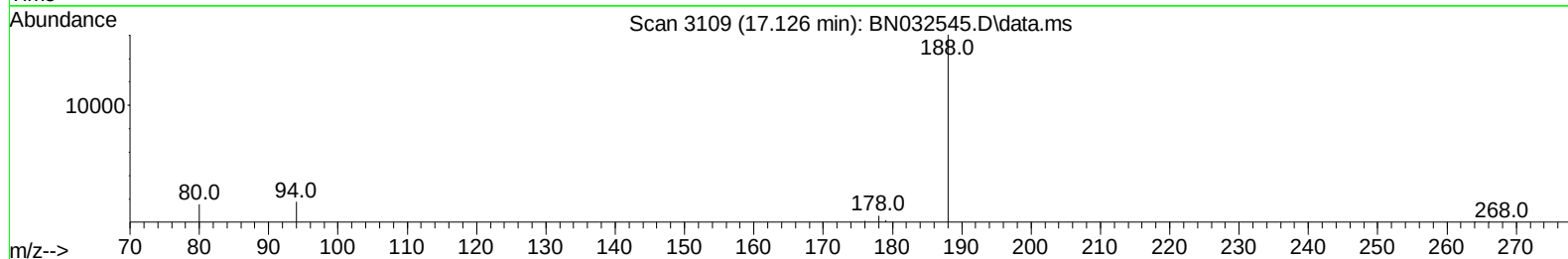
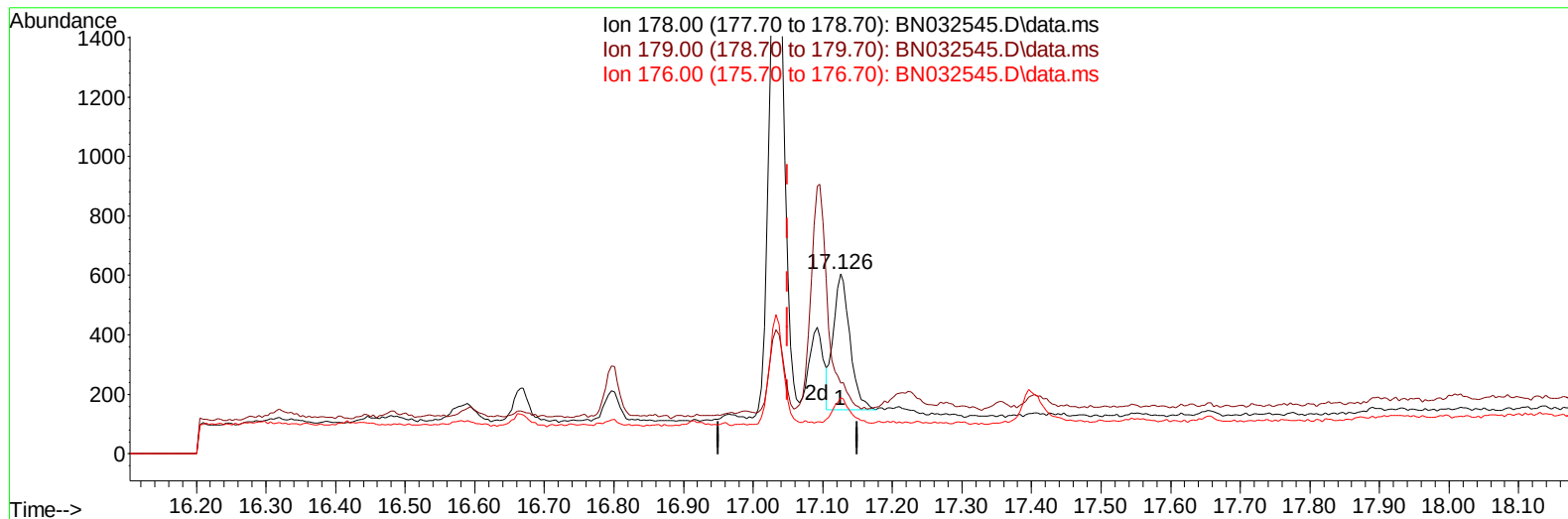
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(15) Phenanthrene

17.126min (+ 0.076) 0.01 ng/u1

response 758

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.70  | 39.50# |
| 176.00 | 19.50  | 31.07# |
| 0.00   | 0.00   | 0.00   |

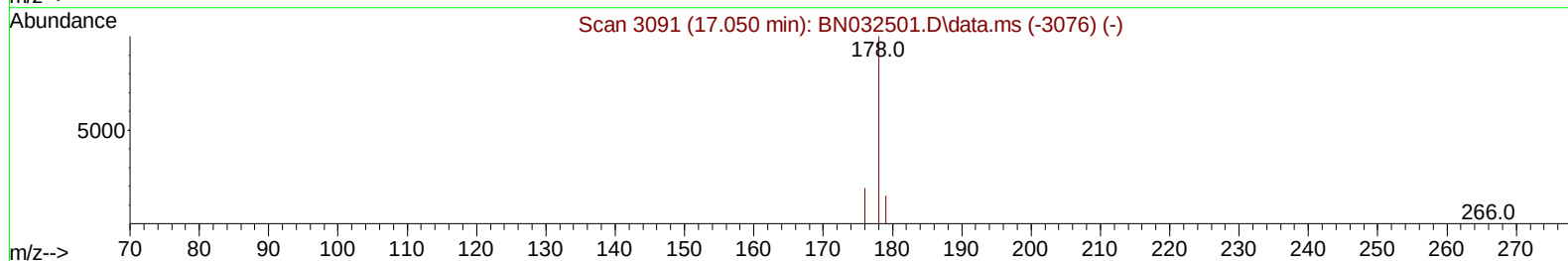
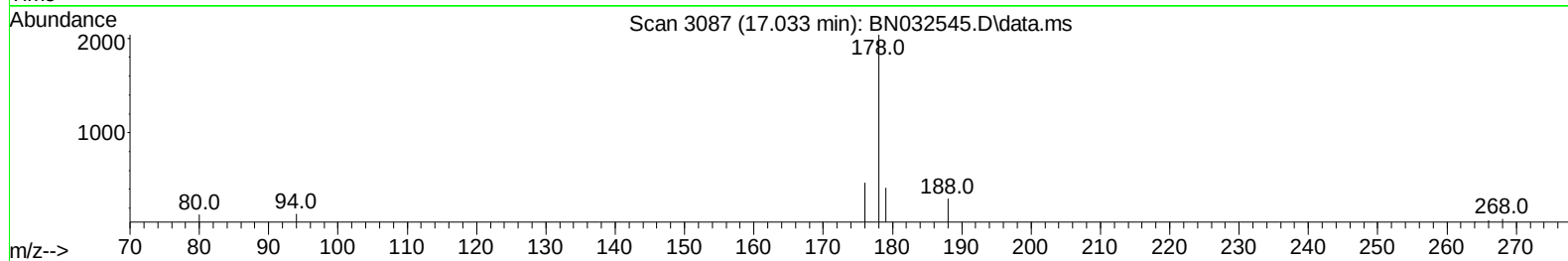
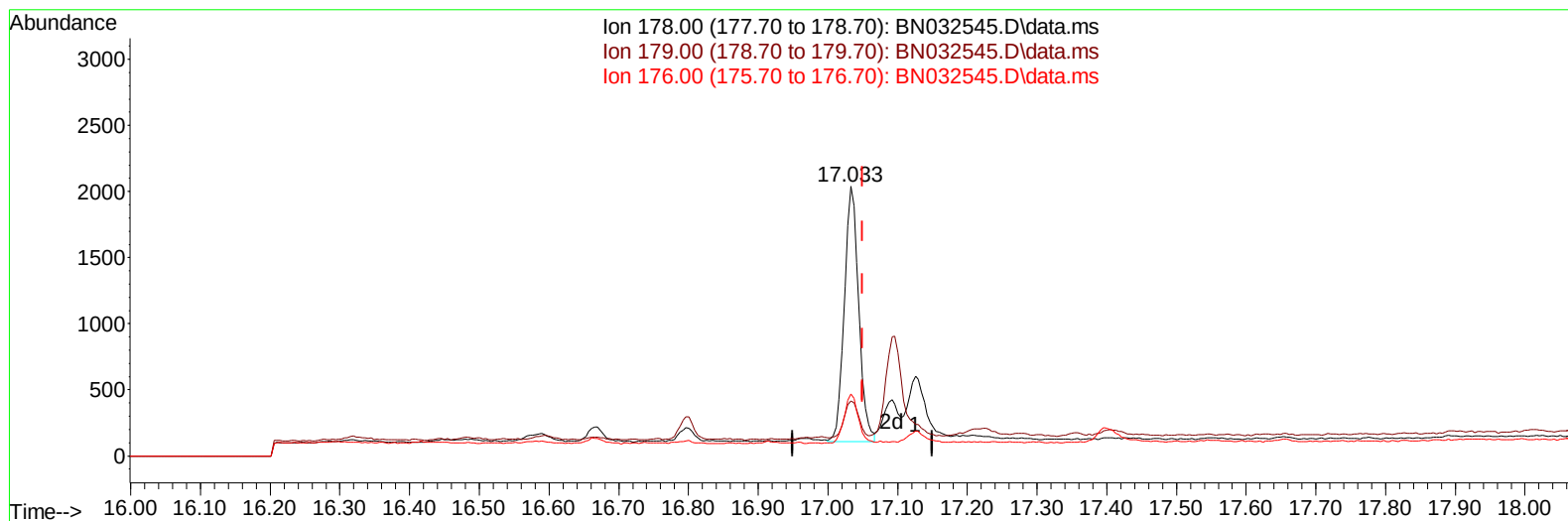
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(15) Phenanthrene

17.033min (-0.017) 0.04 ng/ul m

response 2772

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.70  | 20.51# |
| 176.00 | 19.50  | 22.96  |
| 0.00   | 0.00   | 0.00   |

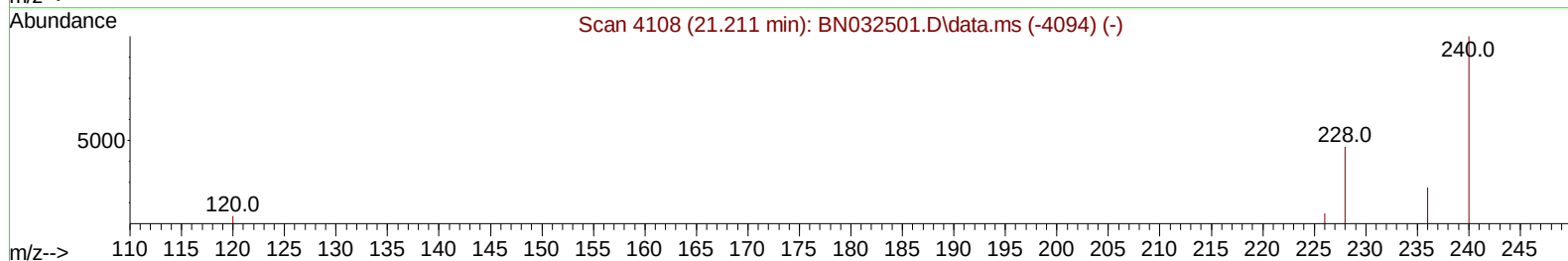
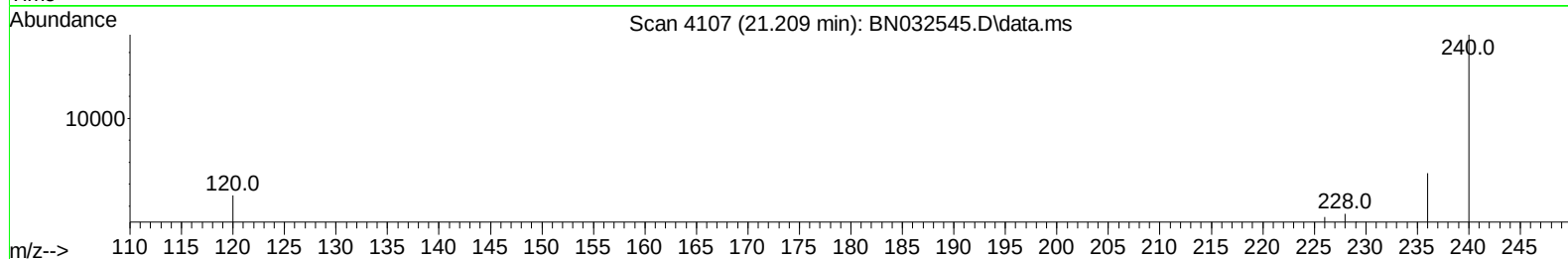
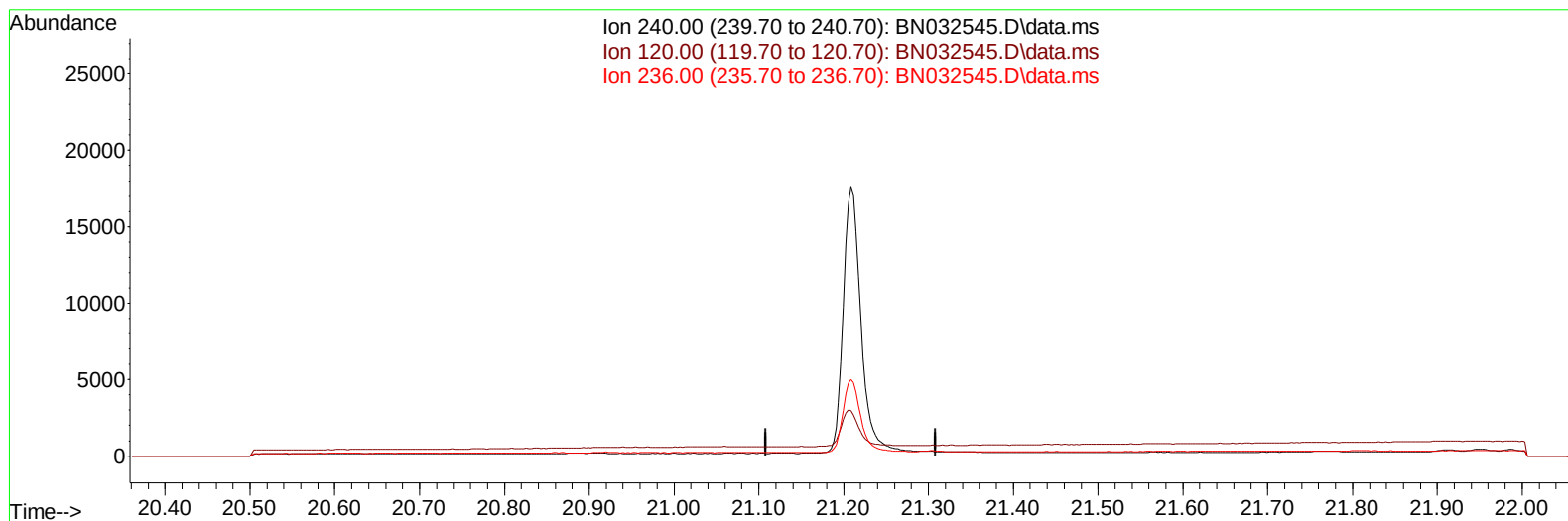
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(17) Chrysene-d12

21.209min (-21.209) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 240.00 | 100.00 | 0.00  |
| 120.00 | 16.80  | 0.00# |
| 236.00 | 28.40  | 0.00# |
| 0.00   | 0.00   | 0.00  |

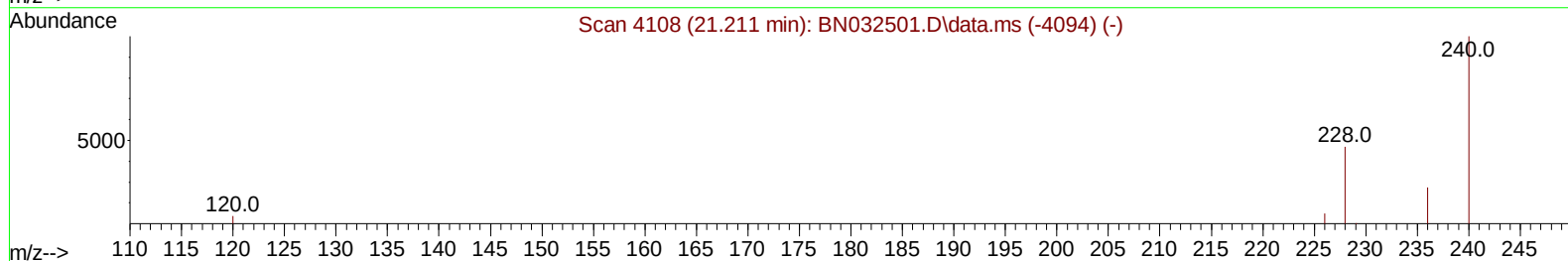
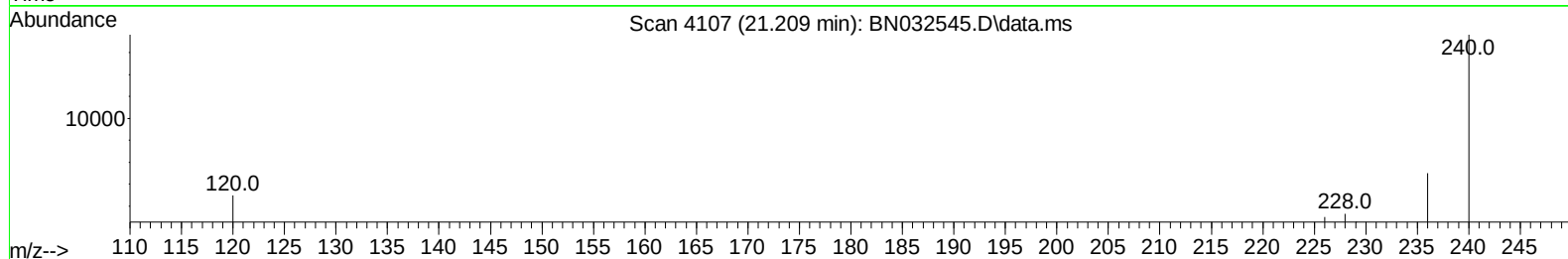
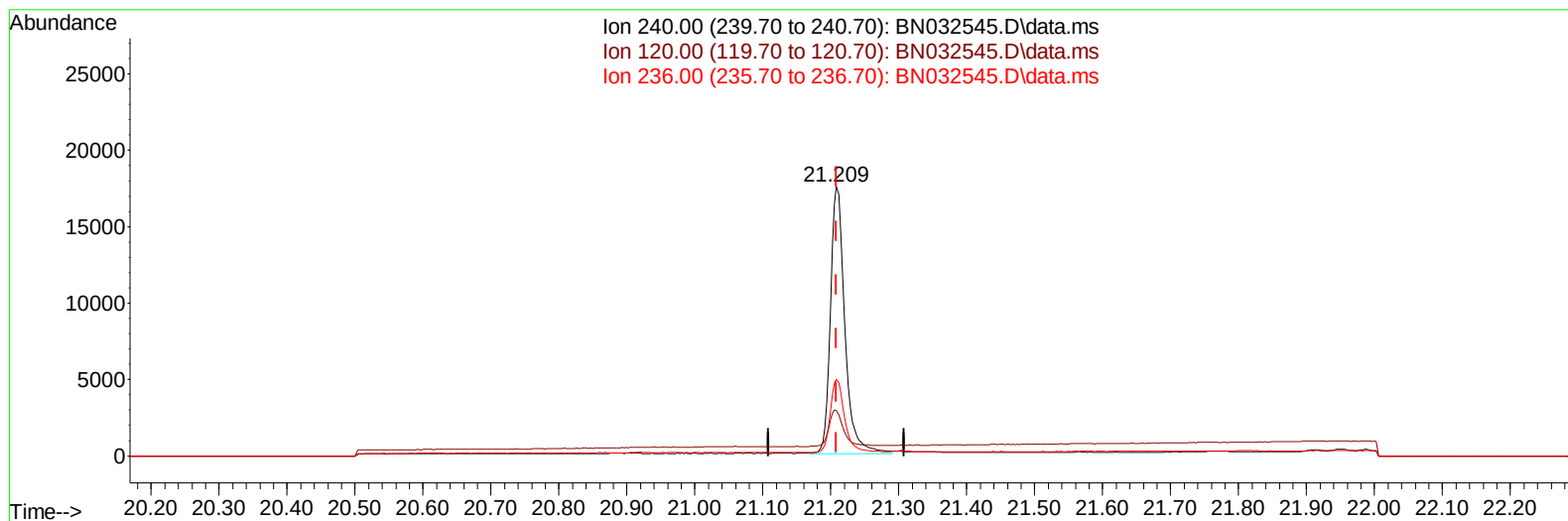
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(17) Chrysene-d12

21.209min (-0.000) 0.40 ng/ul m

response 25815

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 240.00 | 100.00 | 100.00 |
| 120.00 | 16.80  | 16.83  |
| 236.00 | 28.40  | 28.52  |
| 0.00   | 0.00   | 0.00   |

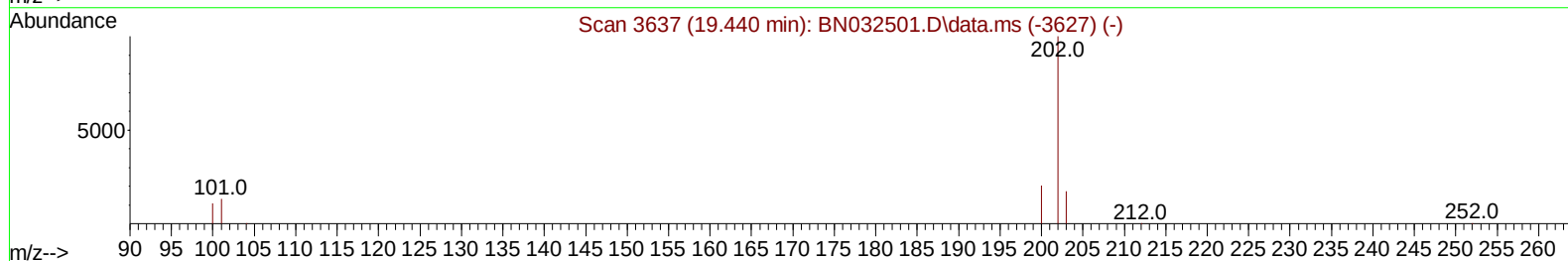
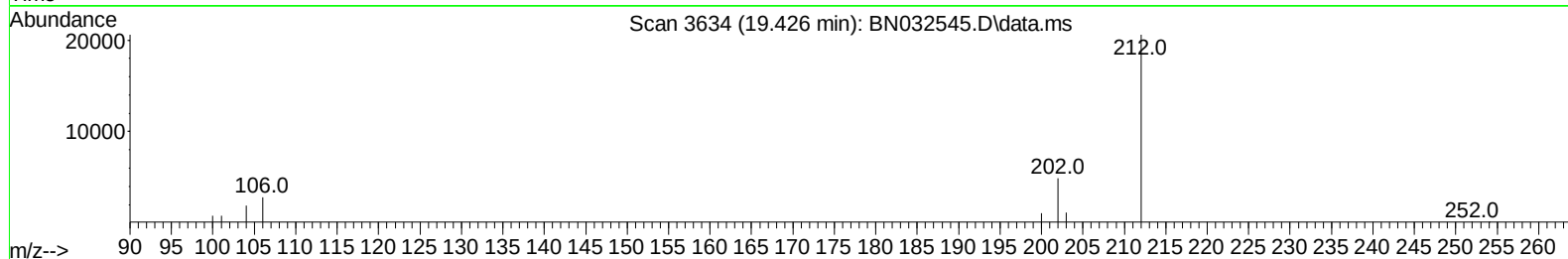
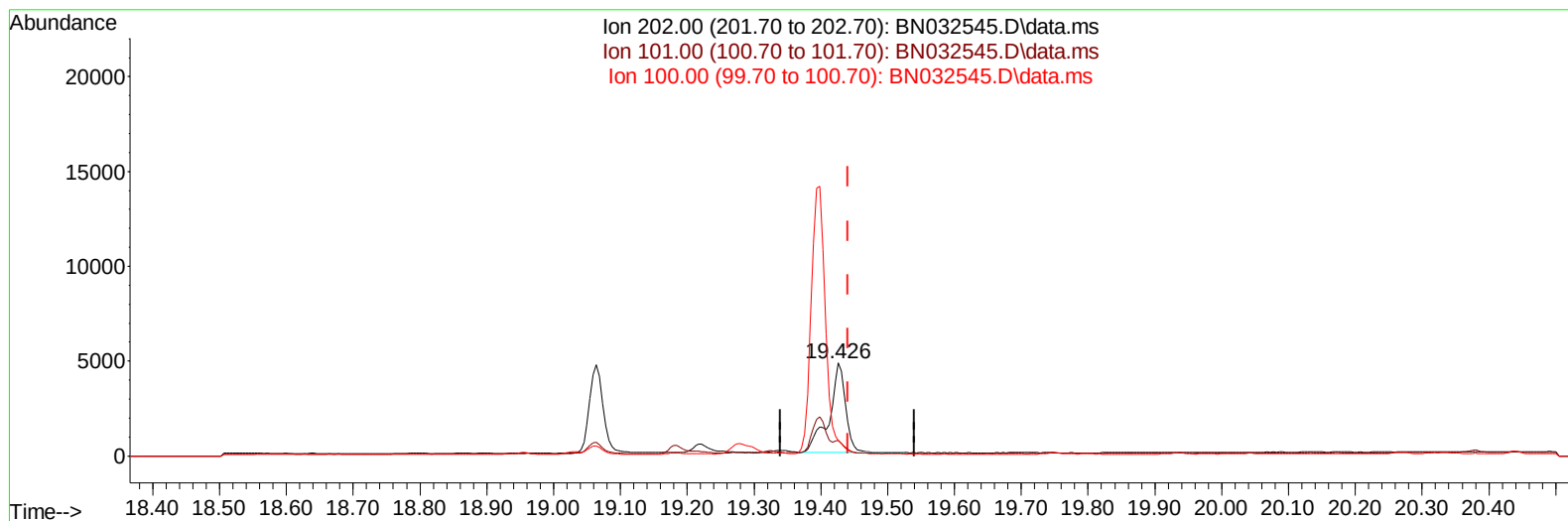
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
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Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(20) Pyrene

19.426min (-0.014) 0.08 ng/u1

response 8275

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 13.70  | 16.68# |
| 100.00 | 10.90  | 16.66# |
| 0.00   | 0.00   | 0.00   |

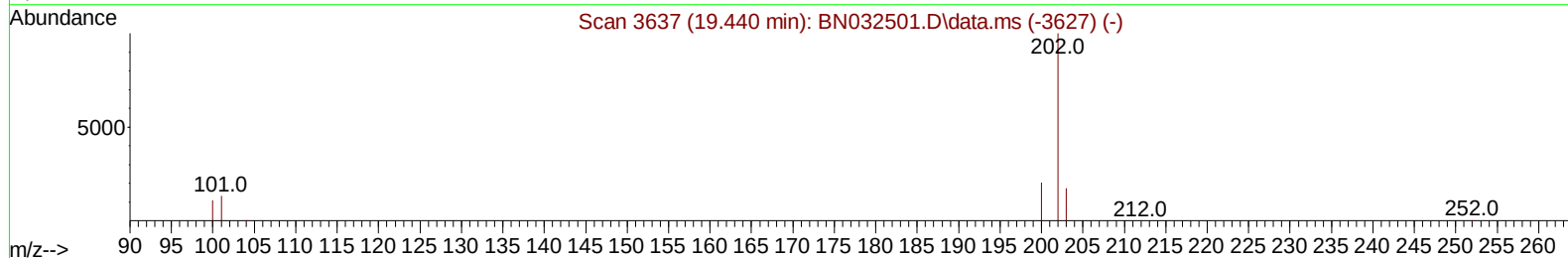
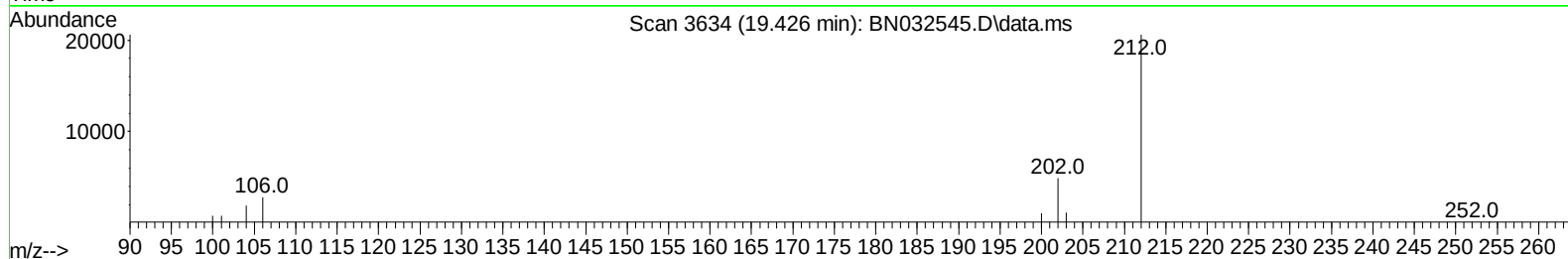
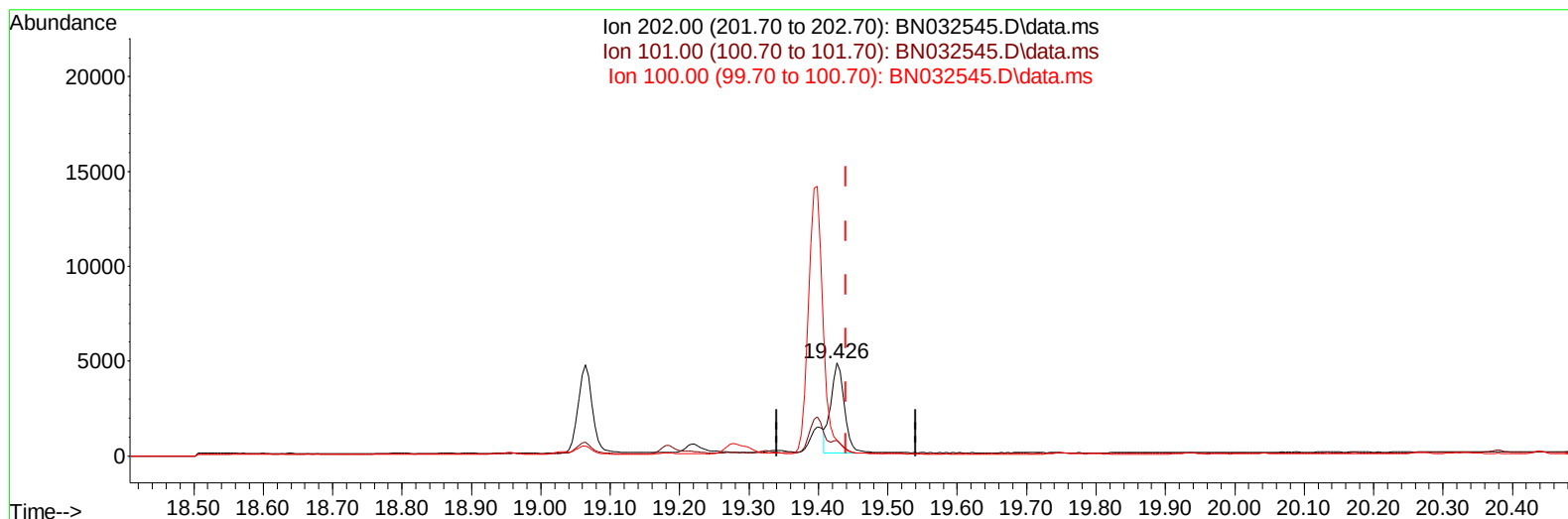
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
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Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(20) Pyrene

19.426min (-0.014) 0.06 ng/ul m

response 6445

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 13.70  | 16.68# |
| 100.00 | 10.90  | 16.66# |
| 0.00   | 0.00   | 0.00   |



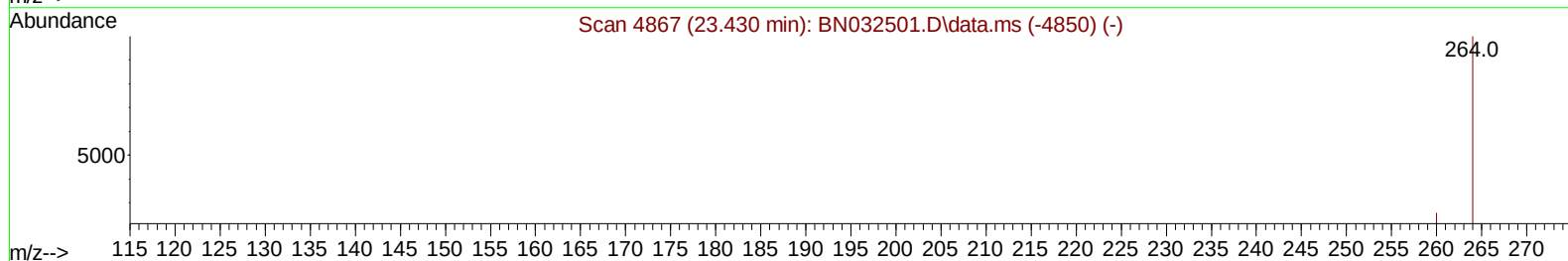
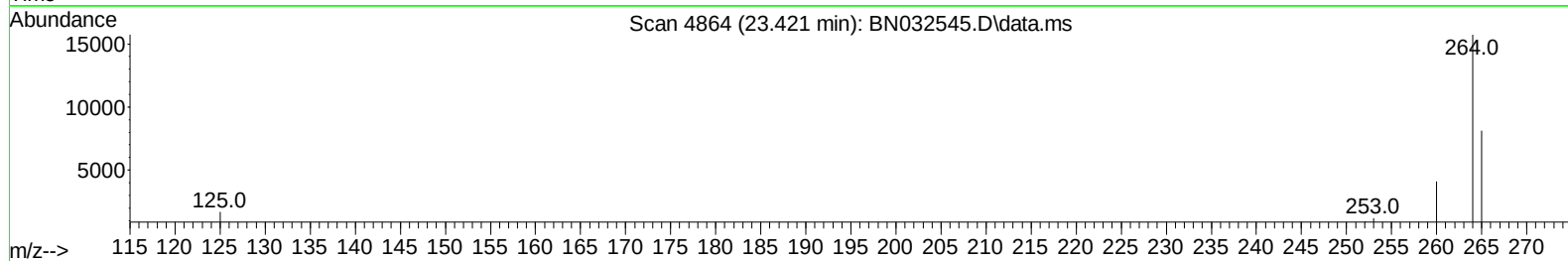
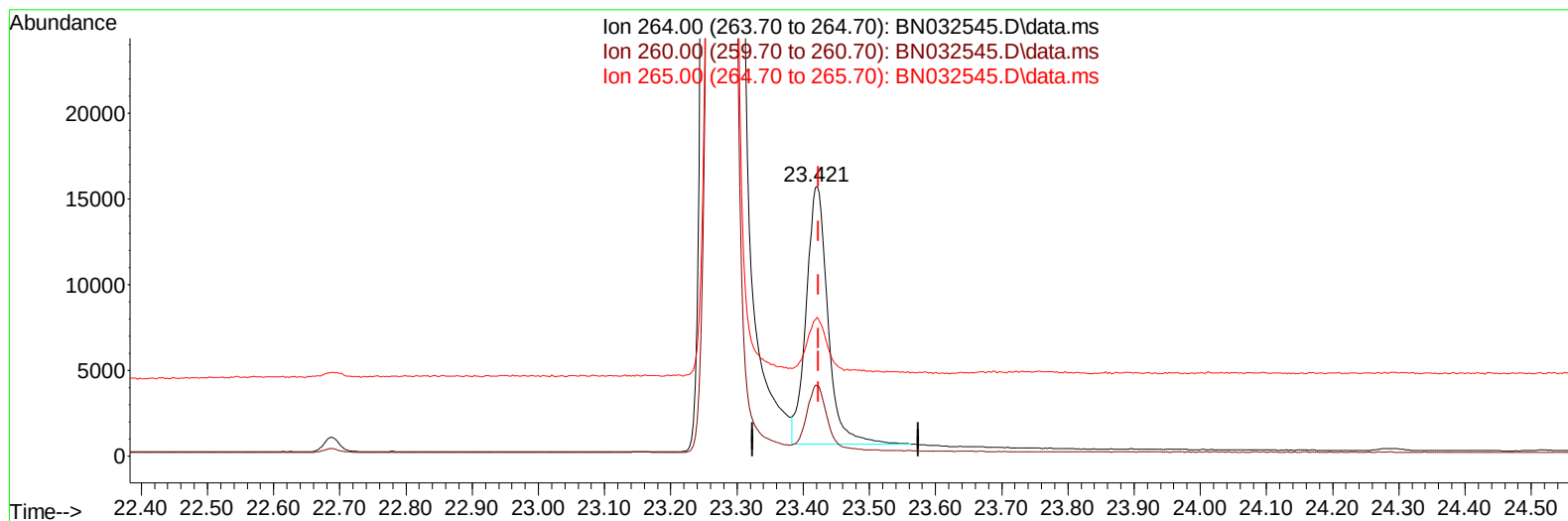
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
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Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(23) Perylene-d12 (I)

23.421min (-0.003) 0.40 ng/u1

response 34166

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.00  | 26.12  |
| 265.00 | 67.20  | 51.55# |
| 0.00   | 0.00   | 0.00   |

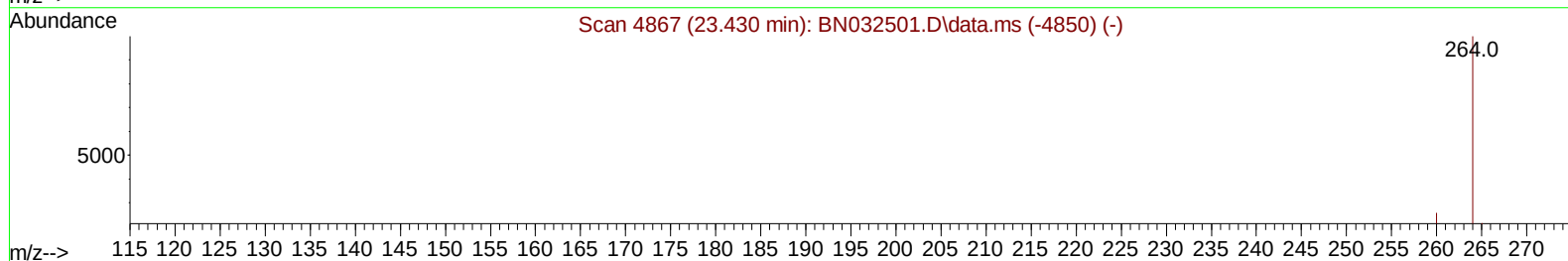
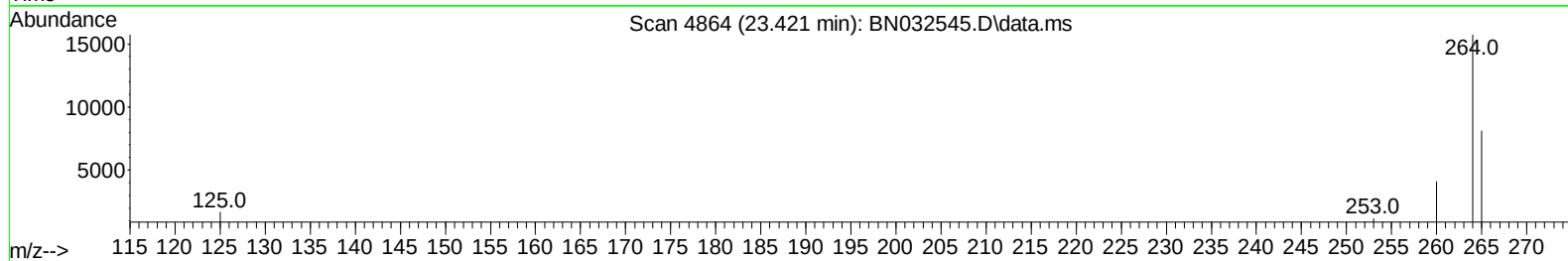
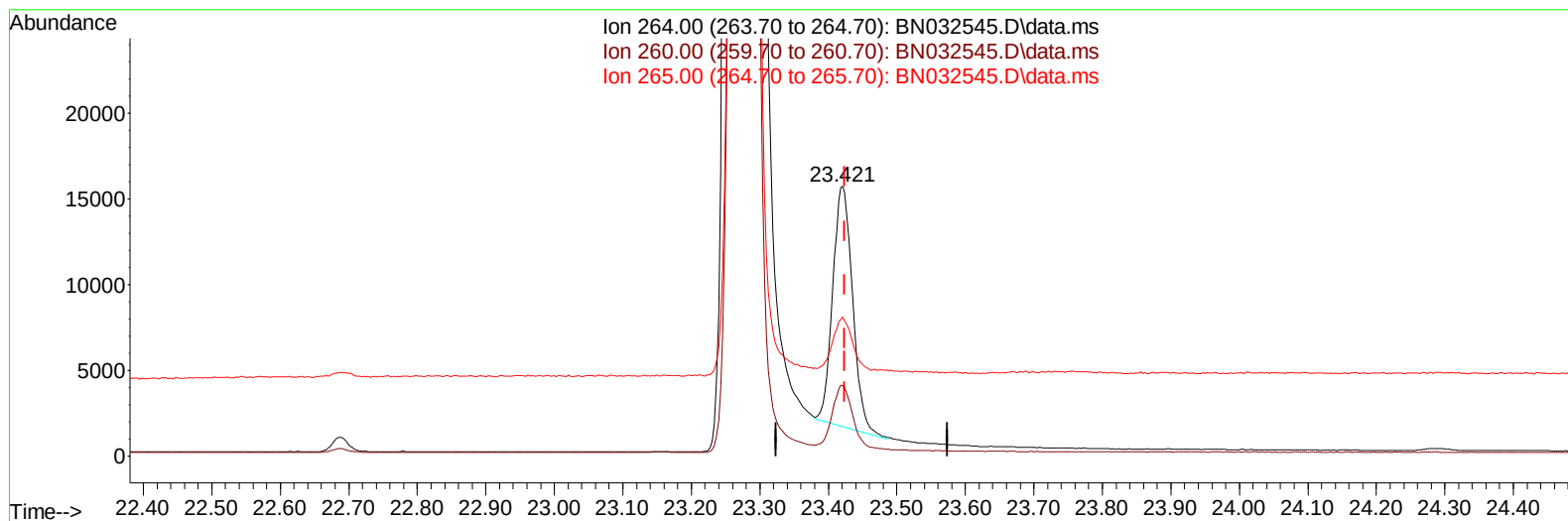
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
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Response via : Initial Calibration

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Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(23) Perylene-d12 (I)

23.421min (-0.003) 0.40 ng/ul m

response 28083

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.00  | 26.12  |
| 265.00 | 67.20  | 51.55# |
| 0.00   | 0.00   | 0.00   |

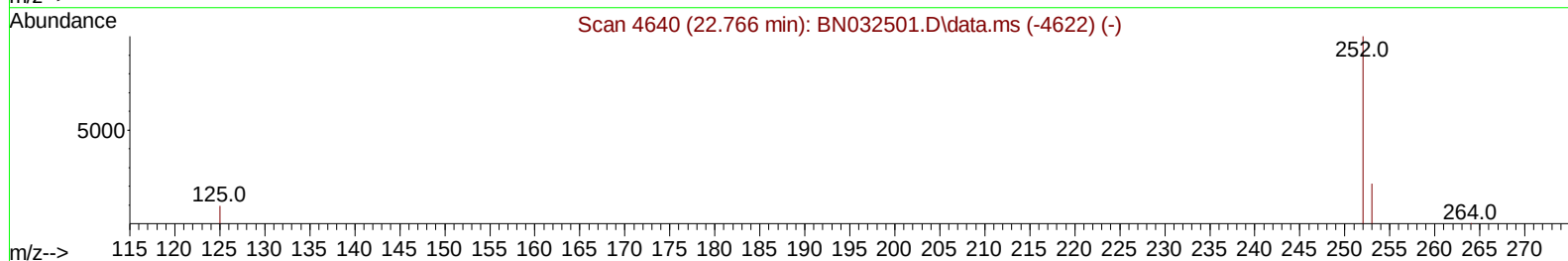
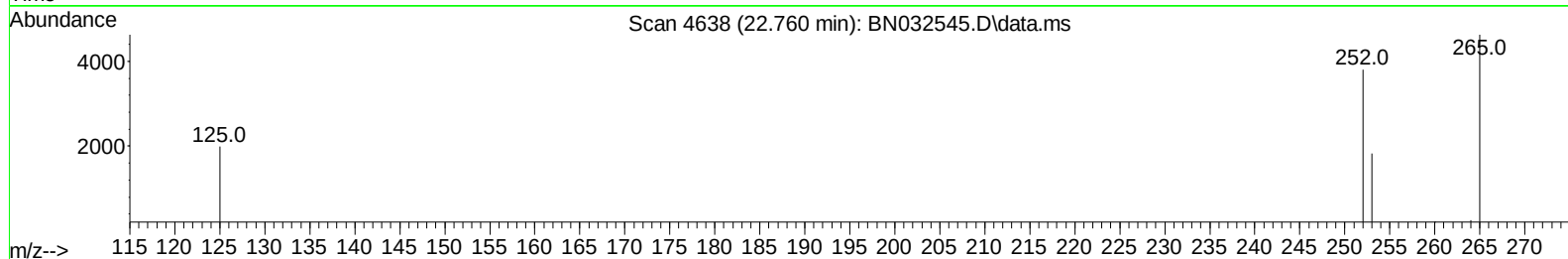
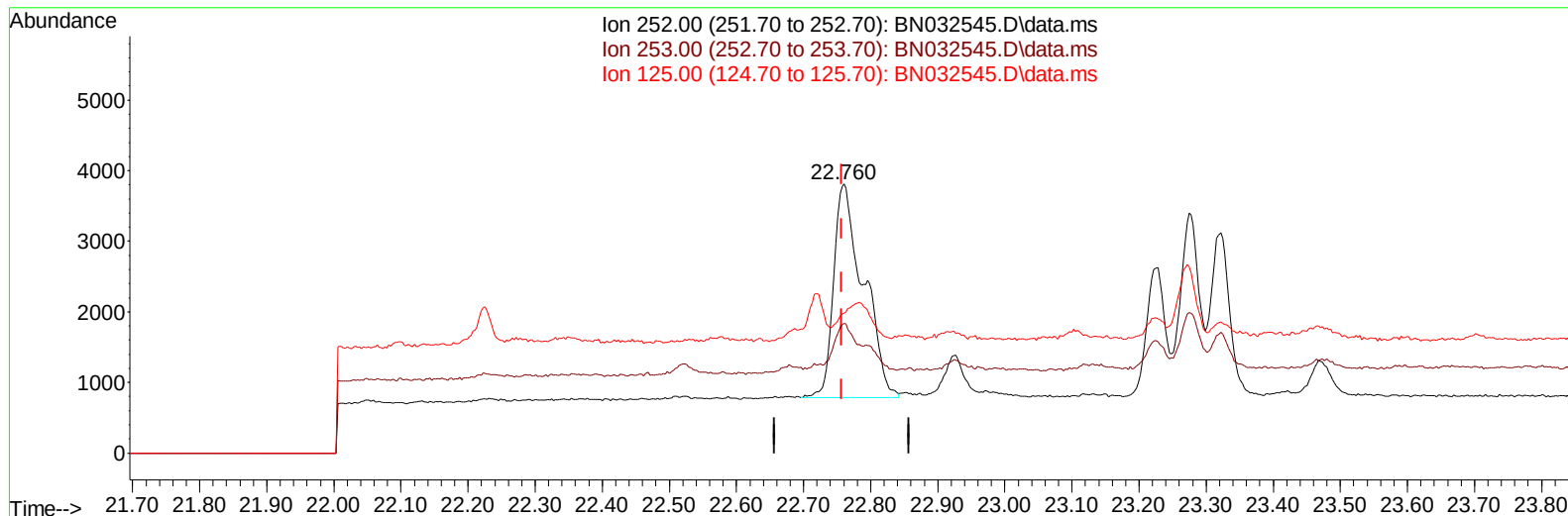
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
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Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

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QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(24) Benzo(b)fluoranthene

22.760min (+ 0.003) 0.08 ng/u1

response 9339

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 25.10  | 48.15  |
| 125.00 | 16.00  | 52.11# |
| 0.00   | 0.00   | 0.00   |

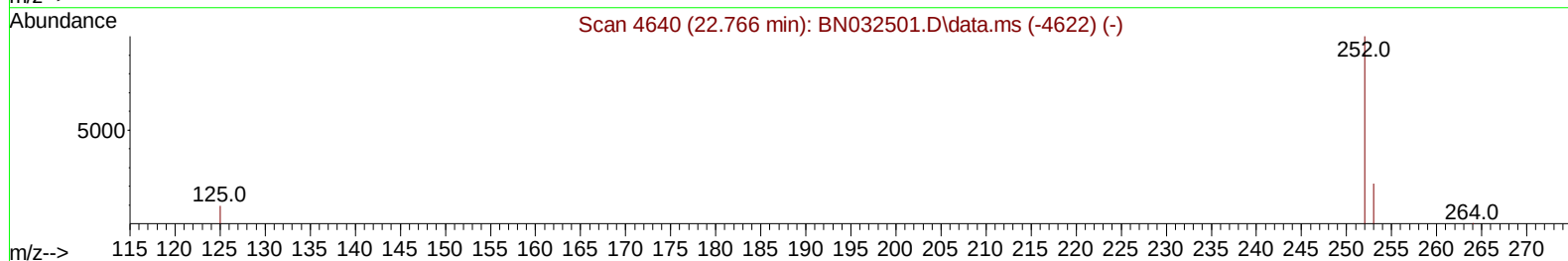
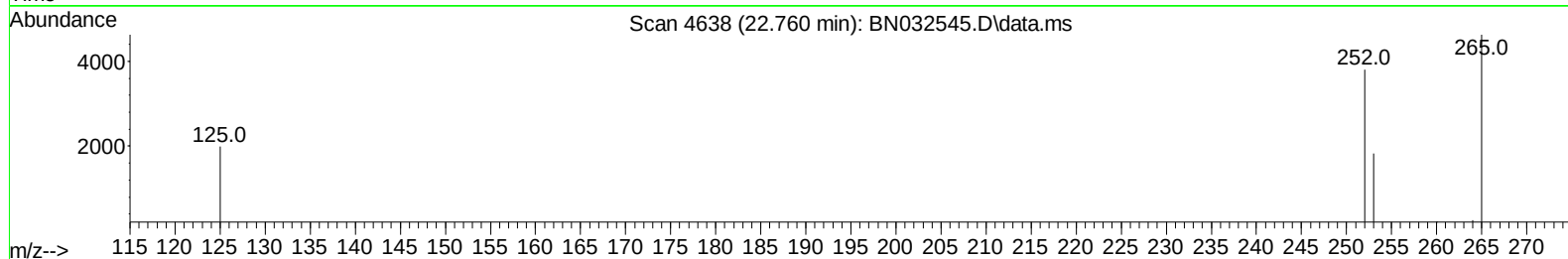
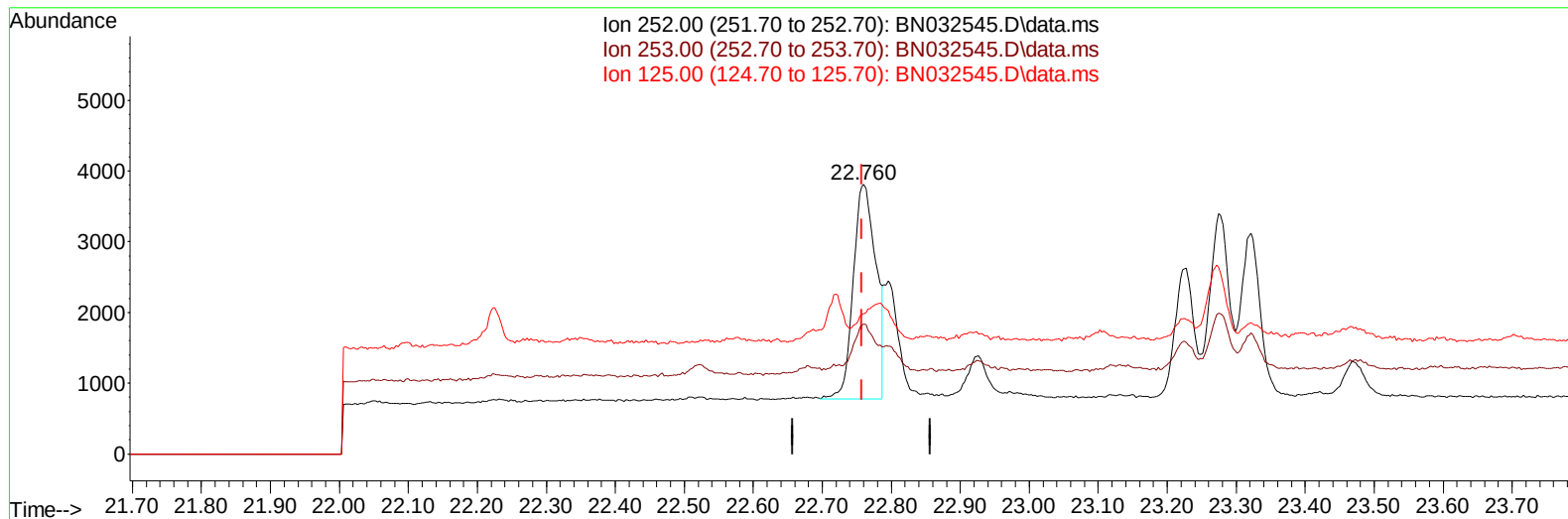
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
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Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(24) Benzo(b)fluoranthene

22.760min (+ 0.003) 0.06 ng/ul m

response 6918

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 25.10  | 48.15  |
| 125.00 | 16.00  | 52.11# |
| 0.00   | 0.00   | 0.00   |

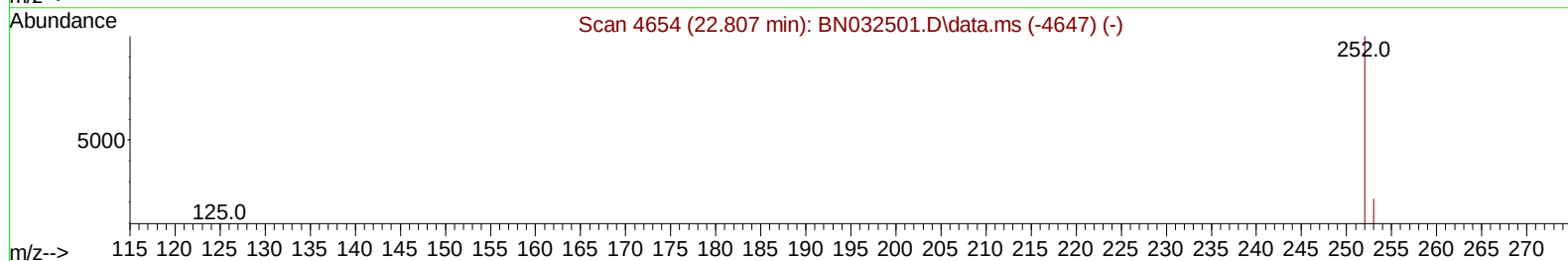
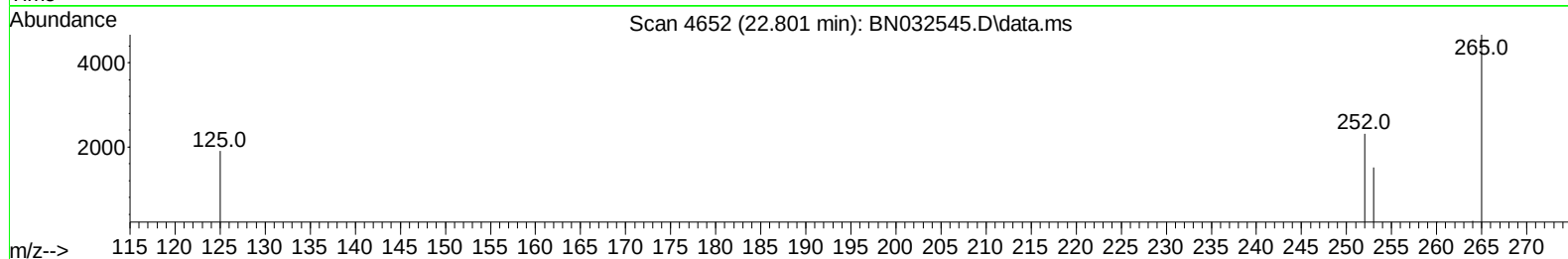
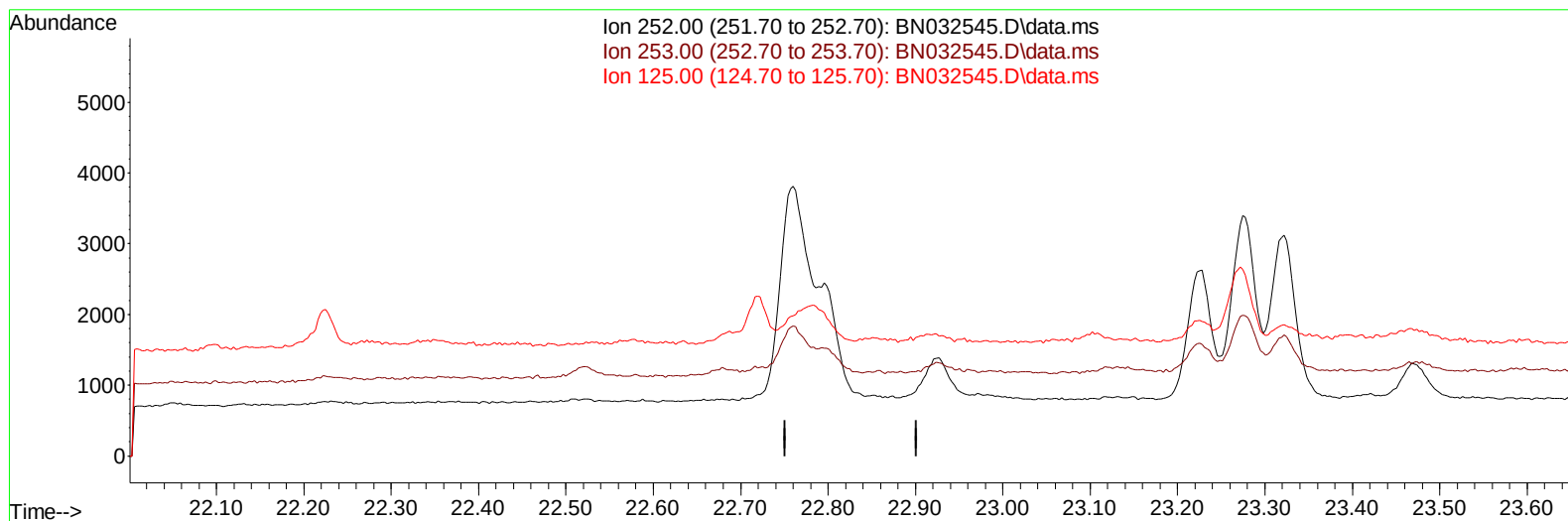
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

Manual IntegrationsAPPROVED

Quant Time: Jul 07 23:45:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/08/2024  
Supervised By :mohammad ahmed 07/08/2024



TIC: BN032545.D\data.ms

(25) Benzo(k)fluoranthene

22.801min (-22.801) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 252.00 | 100.00 | 0.00  |
| 253.00 | 25.40  | 0.00# |
| 125.00 | 16.00  | 0.00# |
| 0.00   | 0.00   | 0.00  |

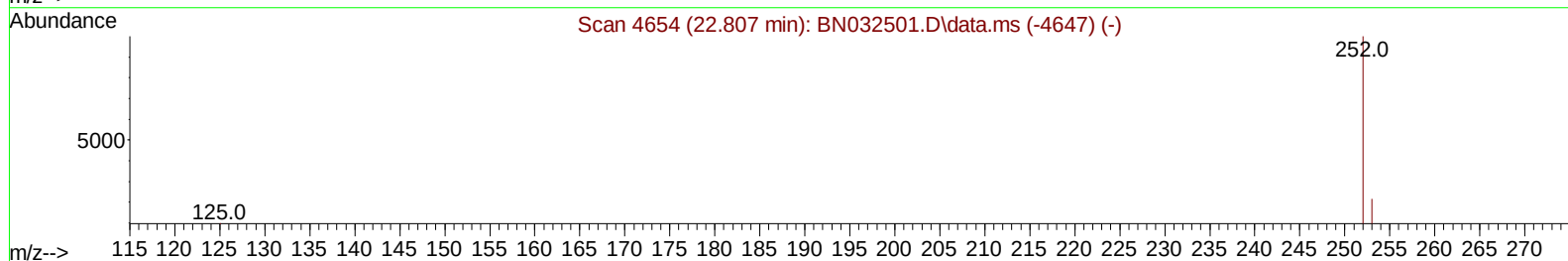
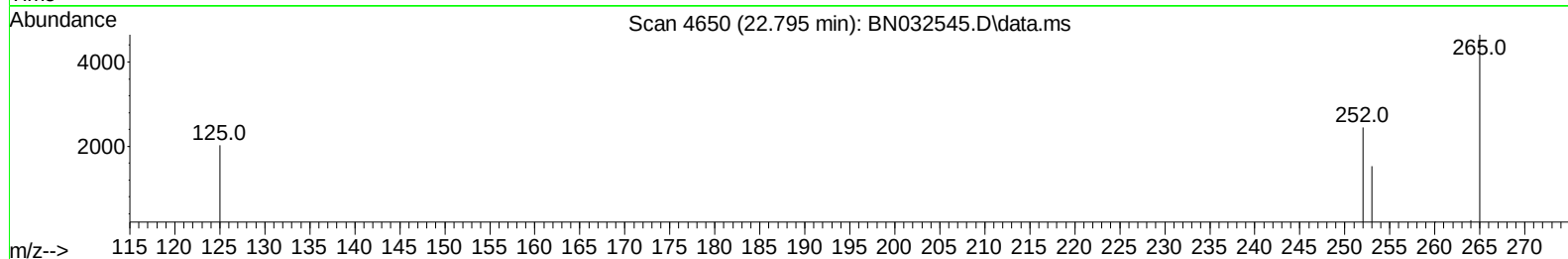
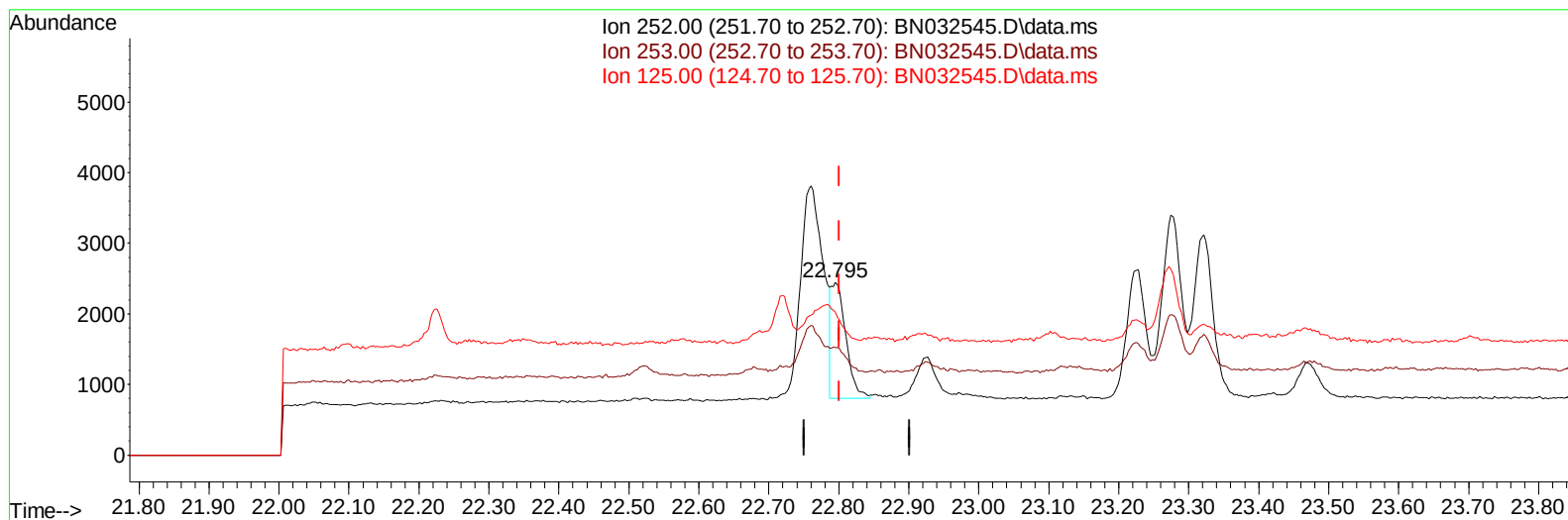
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
Data File : BN032545.D  
Acq On : 06 Jul 2024 14:13  
Operator : MA/JU  
Sample : P2982-18  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A4BB9

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/08/2024  
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Quant Time: Jul 07 23:45:38 2024  
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TIC: BN032545.D\data.ms

## (25) Benzo(k)fluoranthene

22.795min (-0.006) 0.02 ng/ul m

response 2414

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 25.40  | 62.26# |
| 125.00 | 16.00  | 82.74# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
 Data File : BN032545.D  
 Acq On : 06 Jul 2024 14:13  
 Operator : MA/JU  
 Sample : P2982-18  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BB9

## Manual IntegrationsAPPROVED

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 Supervised By :mohammad ahmed 07/08/2024

Quant Time: Jul 07 23:45:38 2024  
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 QLast Update : Wed Jul 03 03:26:42 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | Q   | Ion | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|-----|-----|----------|-------|--------|----------|
| -----                       |        |     |     |          |       |        |          |
| Internal Standards          |        |     |     |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.586  | 152 |     | 8798     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.360 | 136 |     | 25735    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.235 | 164 |     | 14372    | 0.400 | ng/ul  | -0.02    |
| 13) Phenanthrene-d10        | 16.995 | 188 |     | 28112m   | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.209 | 240 |     | 25815m   | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.421 | 264 |     | 28083m   | 0.400 | ng/ul  | 0.00     |
|                             |        |     |     |          |       |        |          |
| System Monitoring Compounds |        |     |     |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.135  | 96  |     | 31652    | 3.237 | ng/ul  | -0.01    |
| 6) 2-Methylnaphthalene-d10  | 11.966 | 152 |     | 7039     | 0.182 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.031 | 212 |     | 14217    | 0.183 | ng/ul  | -0.01    |
|                             |        |     |     |          |       |        |          |
| Target Compounds            |        |     |     |          |       |        | Qvalue   |
| 10) Acenaphthylene          | 13.957 | 152 |     | 1721     | 0.029 | ng/ul# | 78       |
| 15) Phenanthrene            | 17.033 | 178 |     | 2772m    | 0.036 | ng/ul  |          |
| 19) Fluoranthene            | 19.064 | 202 |     | 6812     | 0.069 | ng/ul# | 90       |
| 20) Pyrene                  | 19.426 | 202 |     | 6445m    | 0.063 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.194 | 228 |     | 4369     | 0.047 | ng/ul# | 80       |
| 22) Chrysene                | 21.246 | 228 |     | 4055     | 0.040 | ng/ul# | 81       |
| 24) Benzo(b)fluoranthene    | 22.760 | 252 |     | 6918m    | 0.057 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.795 | 252 |     | 2414m    | 0.020 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.322 | 252 |     | 4255     | 0.050 | ng/ul# | 35       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.673 | 276 |     | 3615     | 0.027 | ng/ul# | 49       |
| 29) Benzo(g,h,i)perylene    | 26.350 | 276 |     | 3746     | 0.035 | ng/ul# | 58       |
| -----                       |        |     |     |          |       |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070524\  
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