

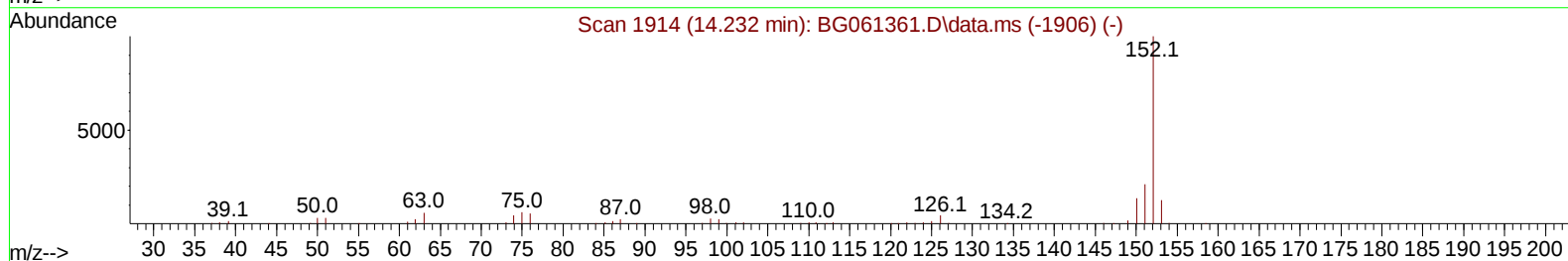
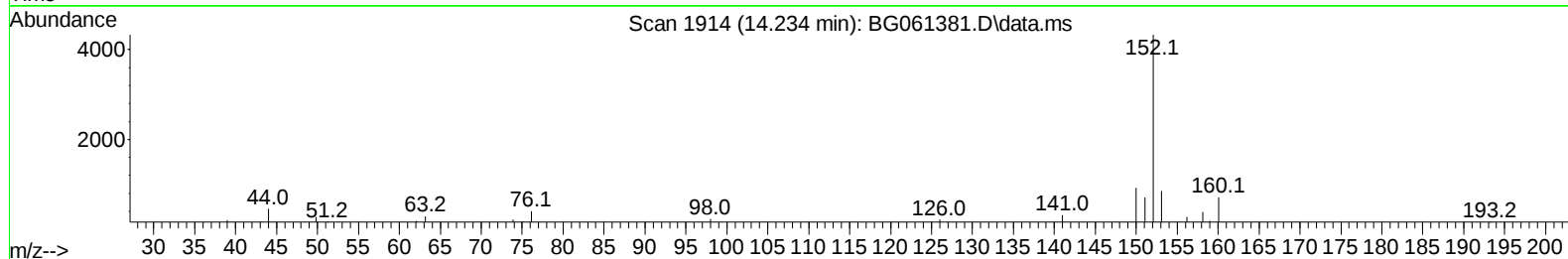
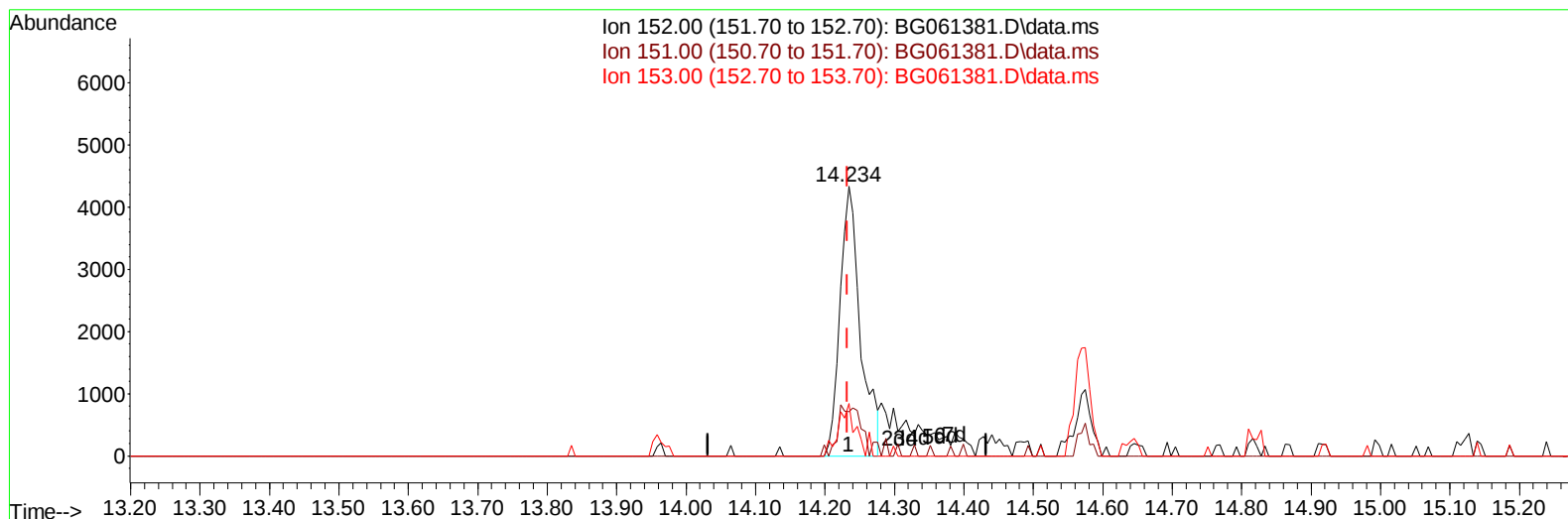
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061381.D  
Acq On : 31 May 2024 6:08  
Operator : MA/JU  
Sample : P2570-09  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:41:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

(50) Acenaphthylene

14.234min (+ 0.002) 1.29 ng/u1

response 8847

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 152.00 | 100.00 | 100.00 |
| 151.00 | 20.20  | 16.39  |
| 153.00 | 12.80  | 19.58# |
| 0.00   | 0.00   | 0.00   |

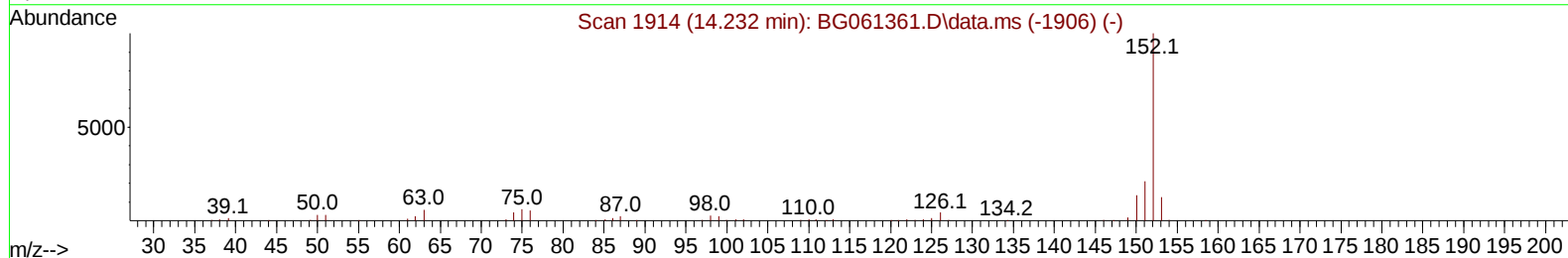
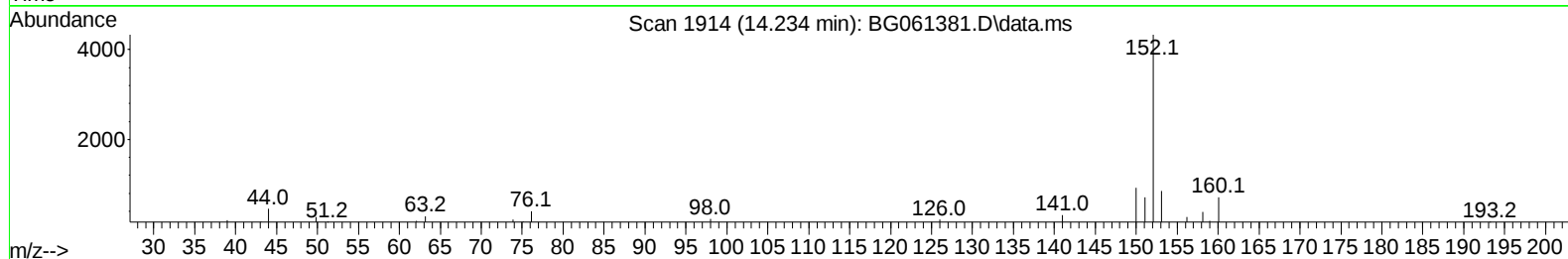
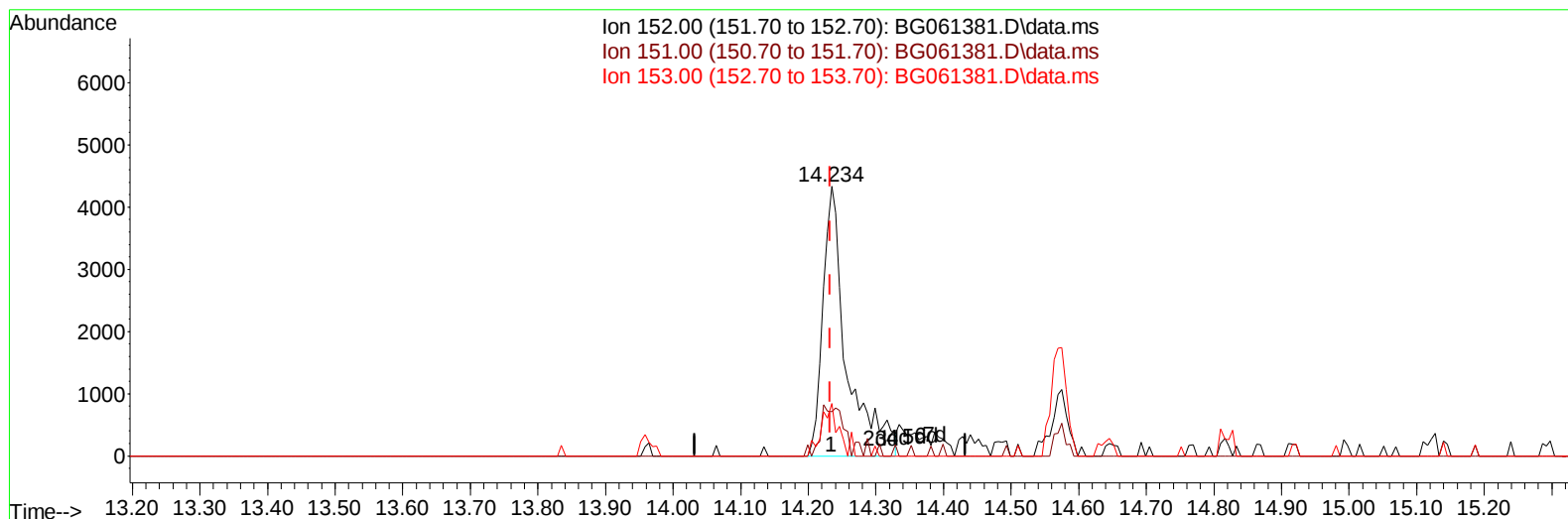
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:41:33 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

(50) Acenaphthylene

14.234min (+ 0.002) 1.55 ng/ul m

response 10598

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 152.00 | 100.00 | 100.00 |
| 151.00 | 20.20  | 16.39  |
| 153.00 | 12.80  | 19.58# |
| 0.00   | 0.00   | 0.00   |

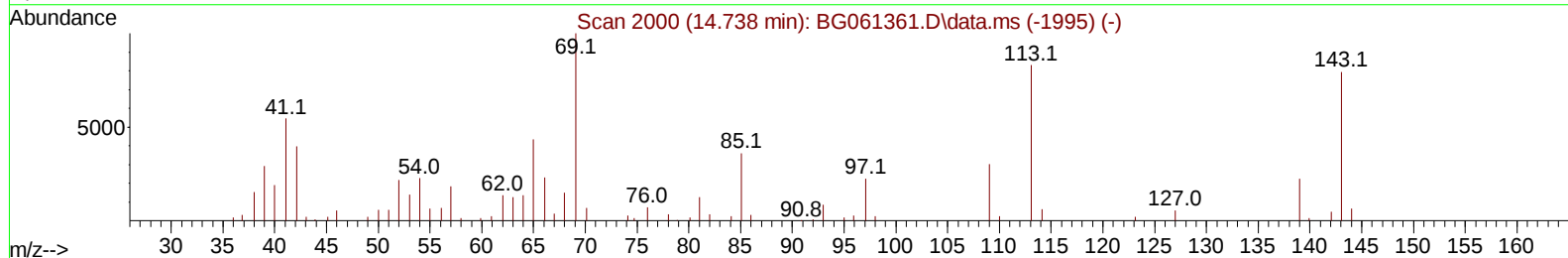
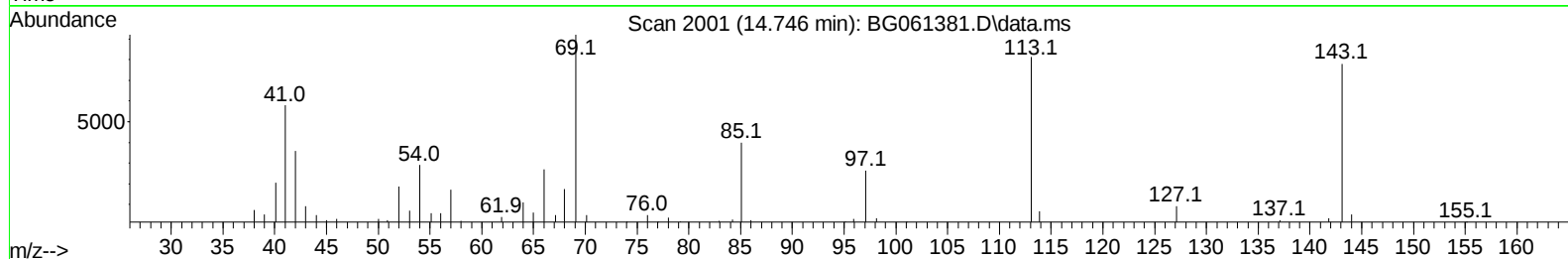
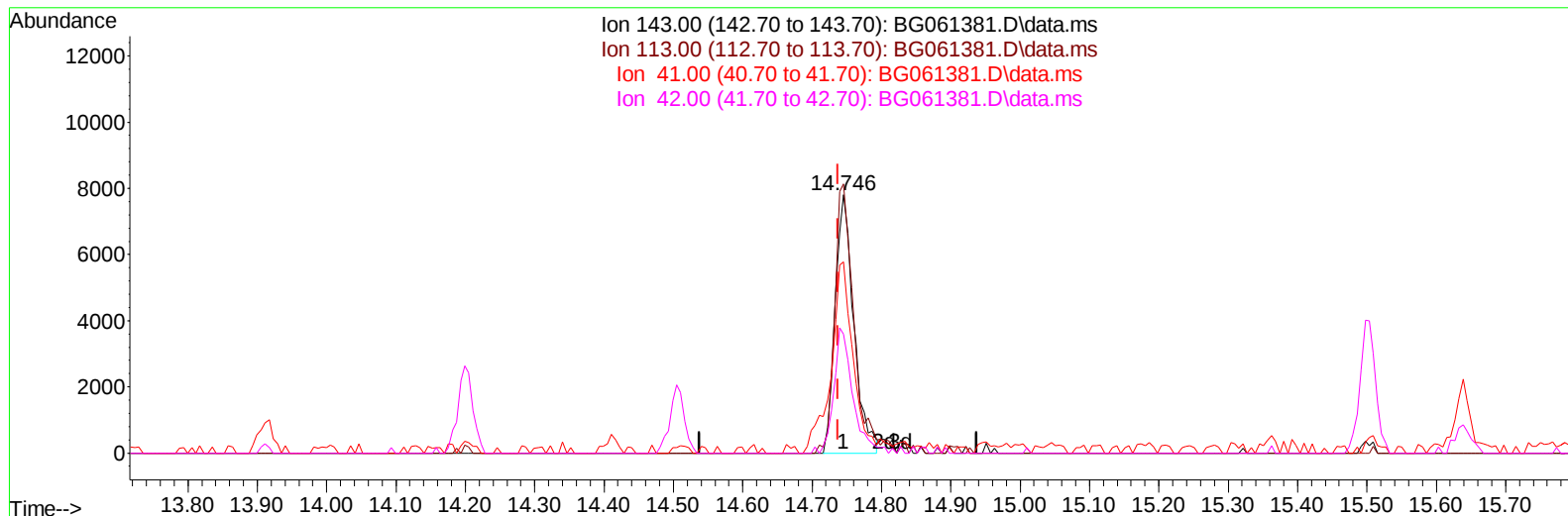
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061381.D  
Acq On : 31 May 2024 6:08  
Operator : MA/JU  
Sample : P2570-09  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:41:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

(54) 4-Nitrophenol-d4 (S)

14.746min (+ 0.008) 19.85 ng/u1

response 14563

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100.00 | 100.00 |
| 113.00 | 122.20 | 104.15 |
| 41.00  | 77.10  | 74.10  |
| 42.00  | 49.50  | 46.05  |

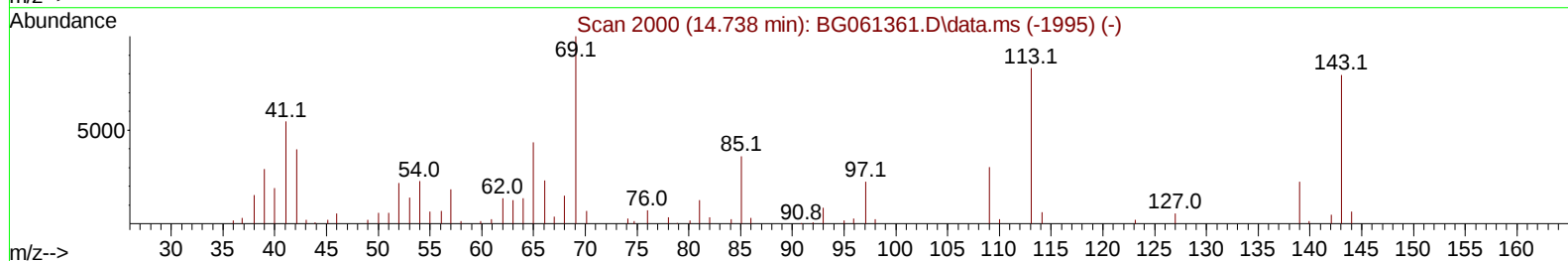
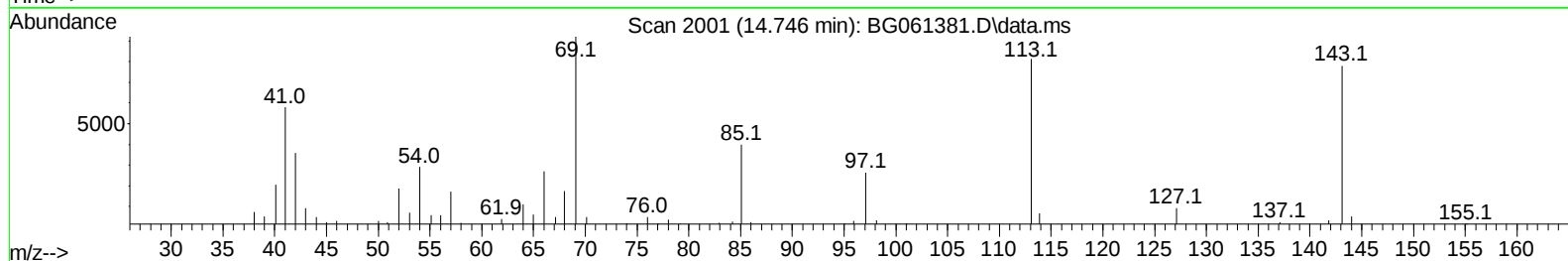
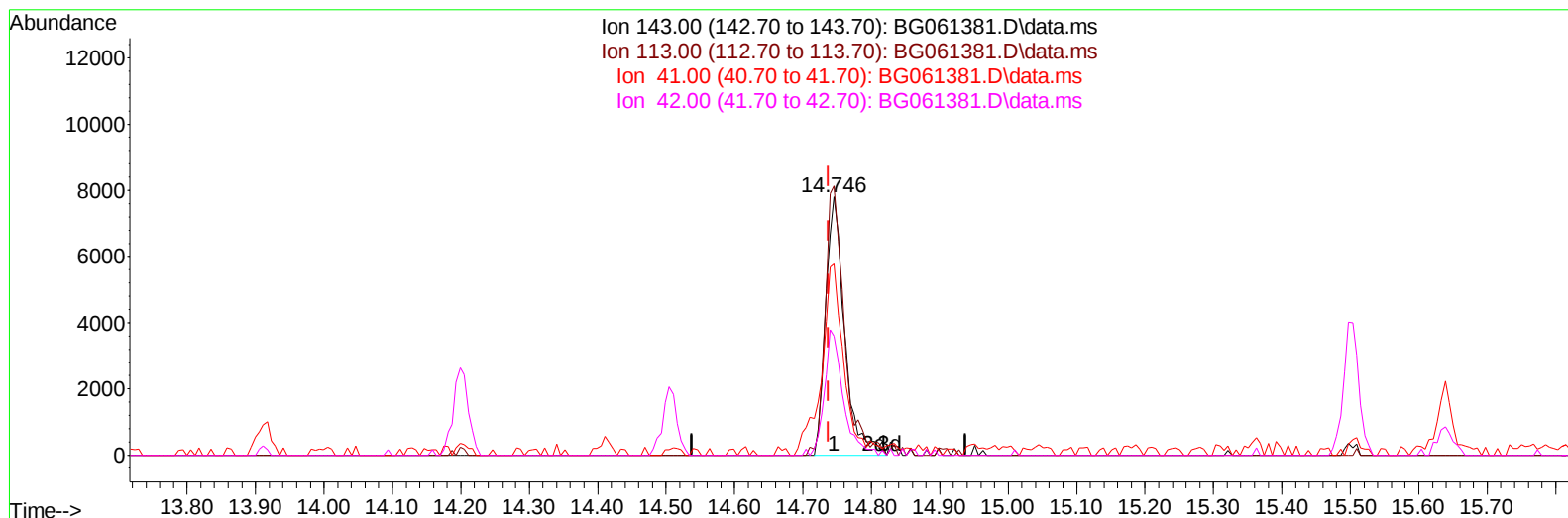
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061381.D  
Acq On : 31 May 2024 6:08  
Operator : MA/JU  
Sample : P2570-09  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B8

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024

Quant Time: May 31 06:41:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration



TIC: BG061381.D\data.ms

**(54) 4-Nitrophenol-d4 (S)**

14.746min (+ 0.008) 20.56 ng/ul m

response 15083

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100.00 | 100.00 |
| 113.00 | 122.20 | 104.15 |
| 41.00  | 77.10  | 74.10  |
| 42.00  | 49.50  | 46.05  |

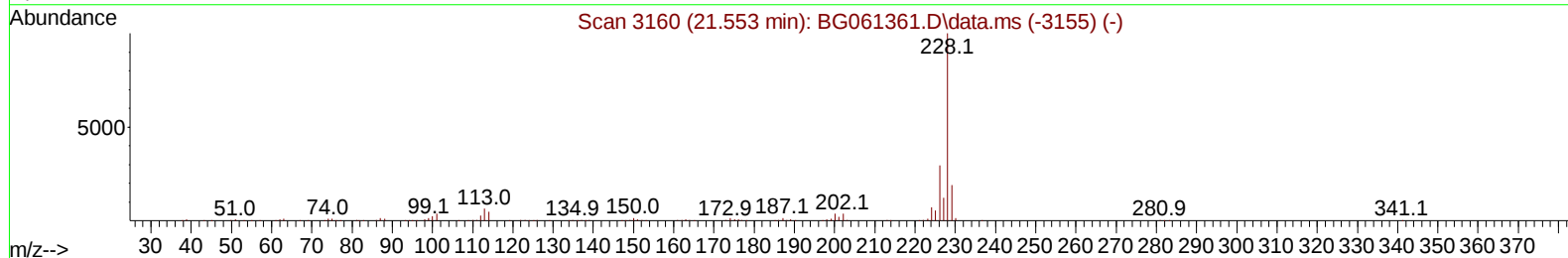
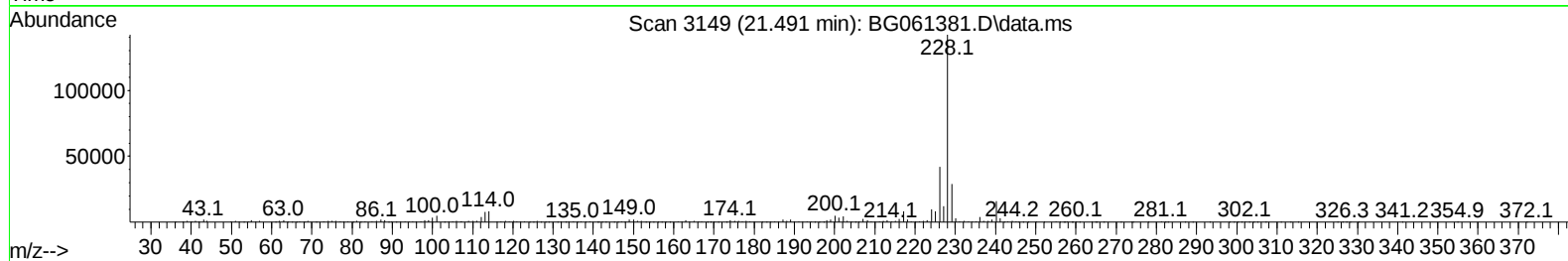
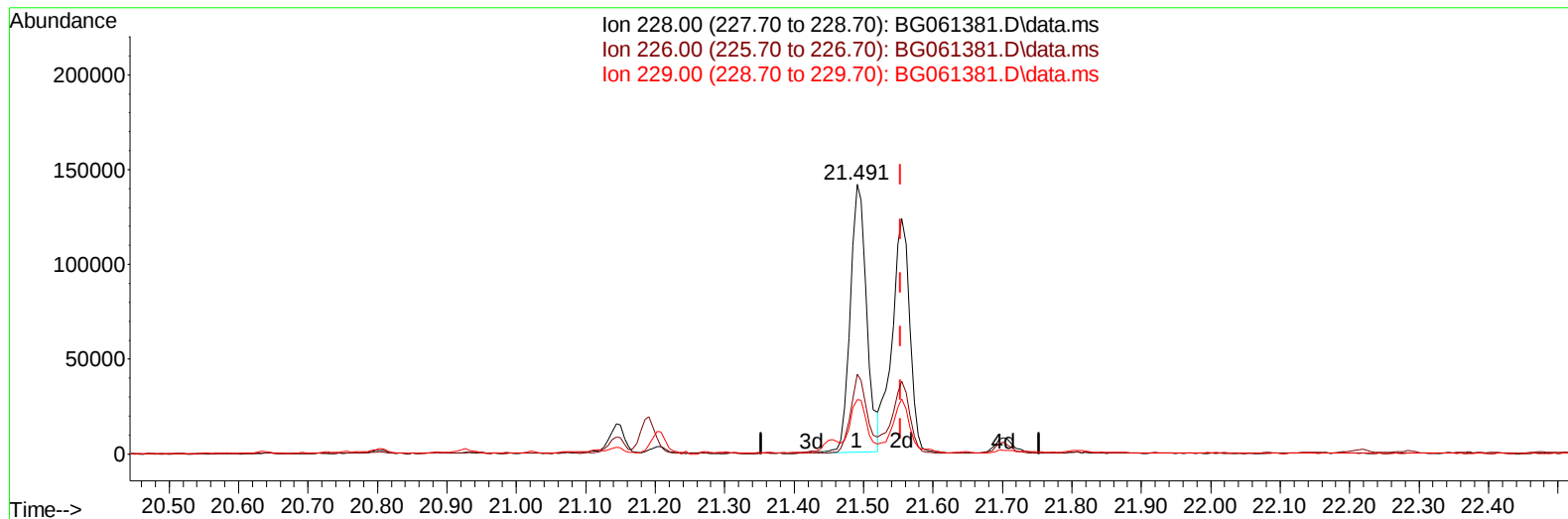
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061381.D  
Acq On : 31 May 2024 6:08  
Operator : MA/JU  
Sample : P2570-09  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:41:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

(87) Chrysene

21.491min (-0.063) 20.56 ng/u1

response 230642

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 29.20  | 29.69  |
| 229.00 | 19.30  | 20.27  |
| 0.00   | 0.00   | 0.00   |

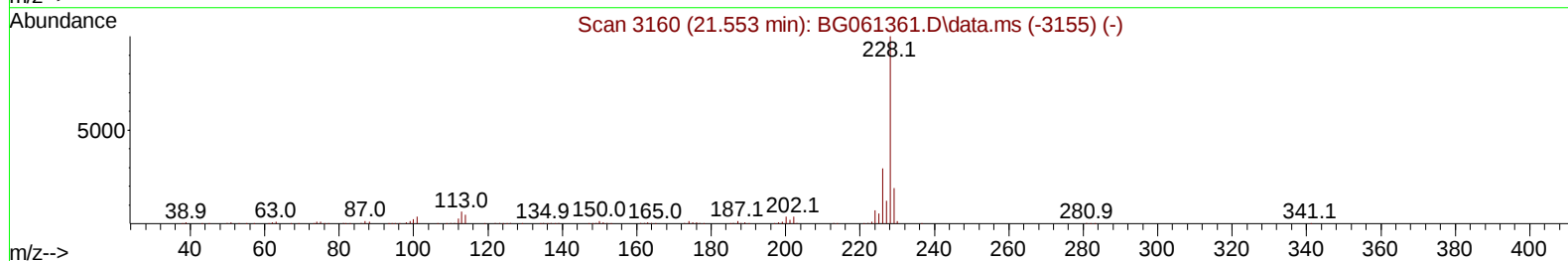
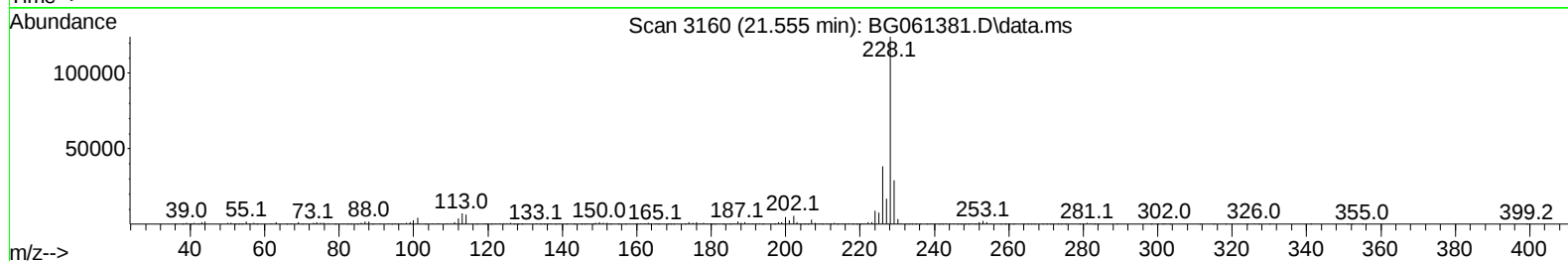
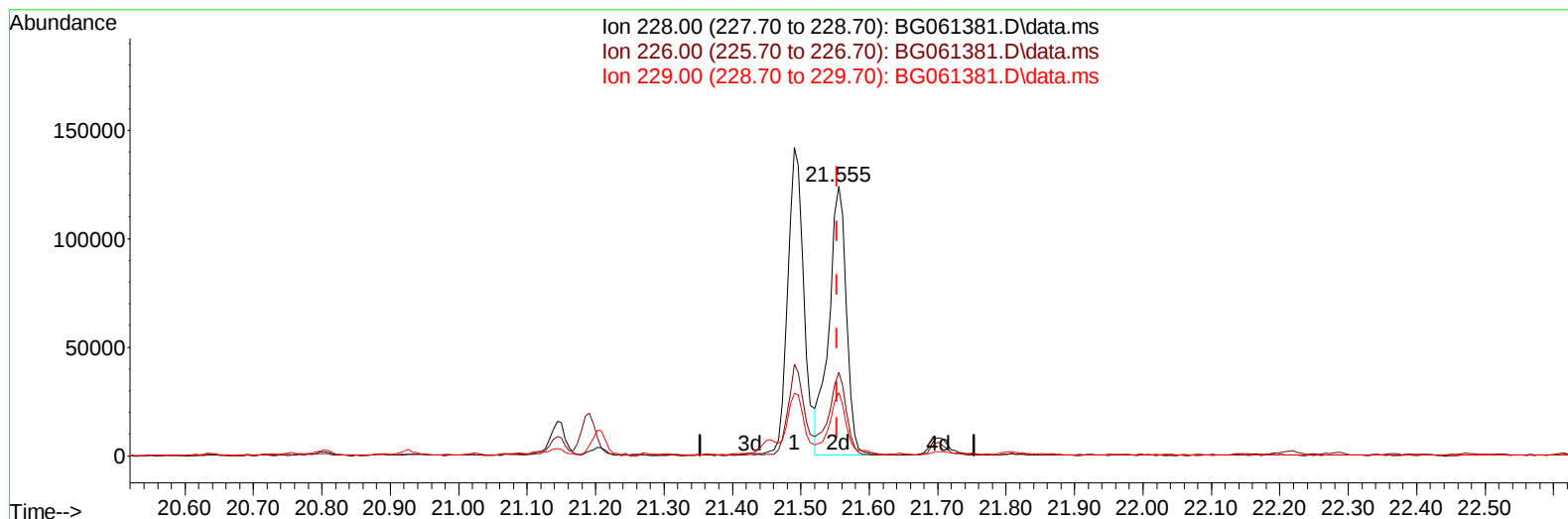
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:41:33 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

(87) Chrysene

21.555min (+ 0.002) 19.72 ng/ul m

response 221240

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 29.20  | 31.05  |
| 229.00 | 19.30  | 23.40# |
| 0.00   | 0.00   | 0.00   |

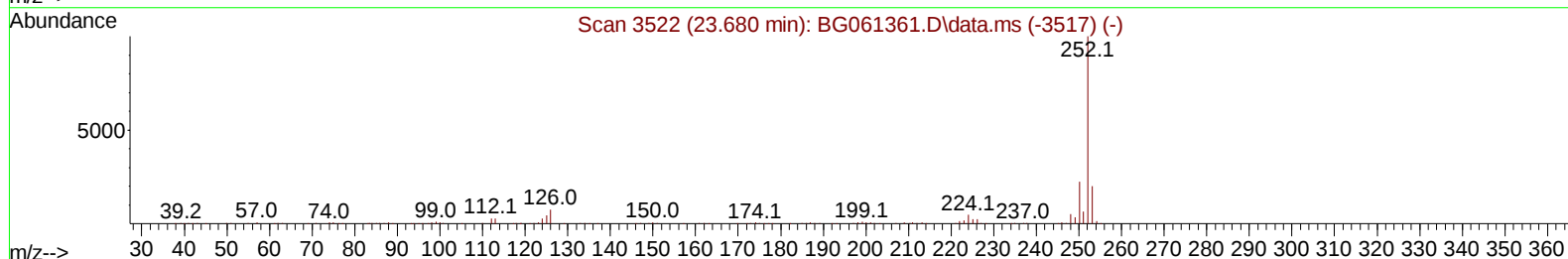
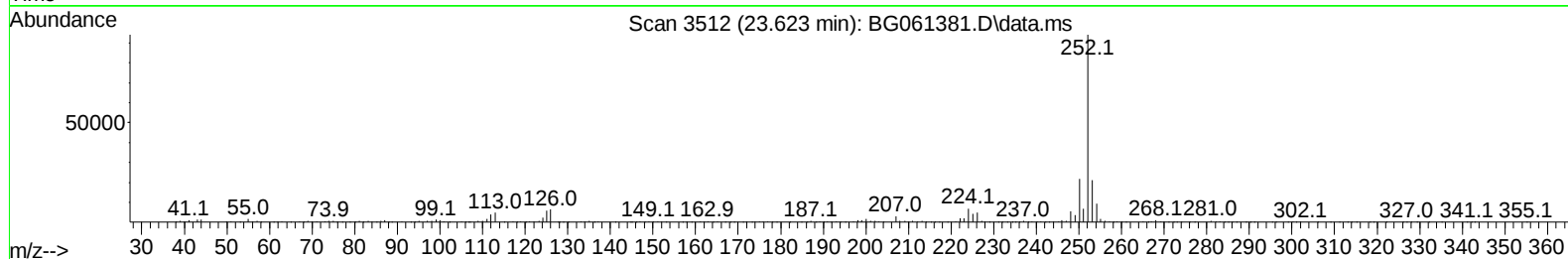
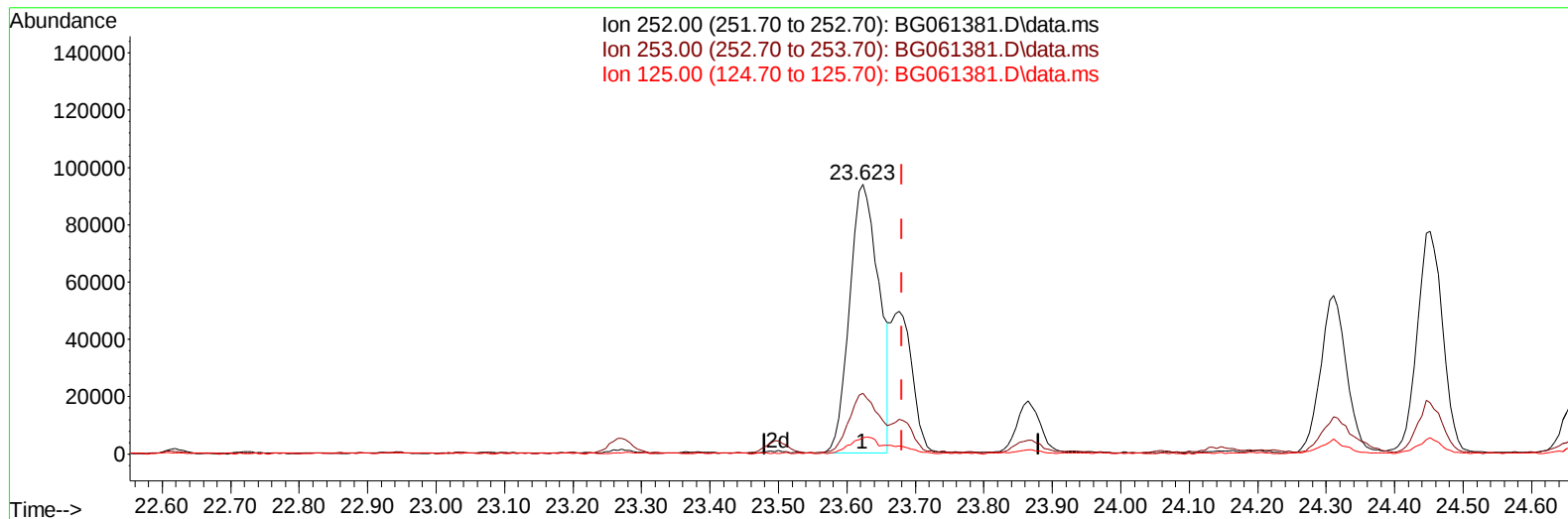
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061381.D  
Acq On : 31 May 2024 6:08  
Operator : MA/JU  
Sample : P2570-09  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:41:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

(91) Benzo(k)fluoranthene

23.623min (-0.057) 22.69 ng/u1

response 280122

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 20.00  | 22.53  |
| 125.00 | 5.40   | 6.10   |
| 0.00   | 0.00   | 0.00   |

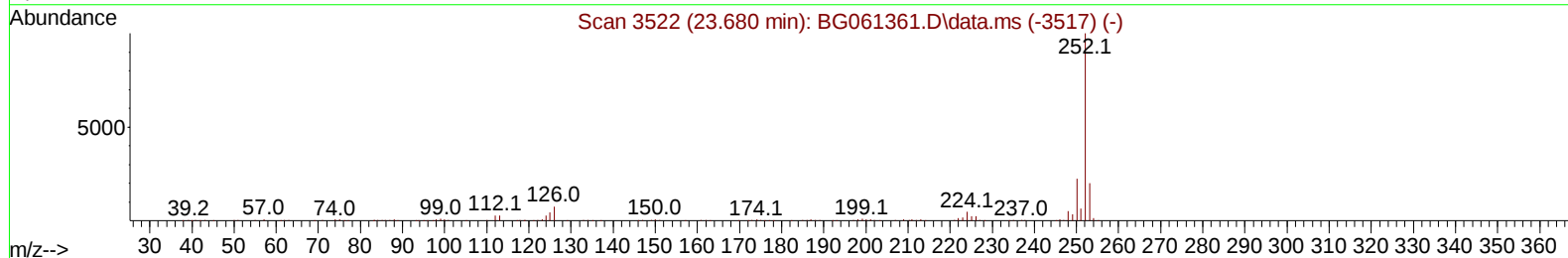
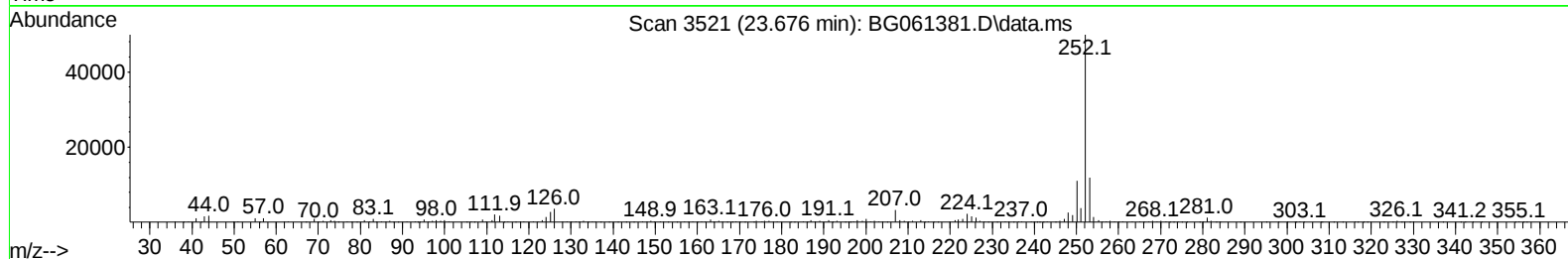
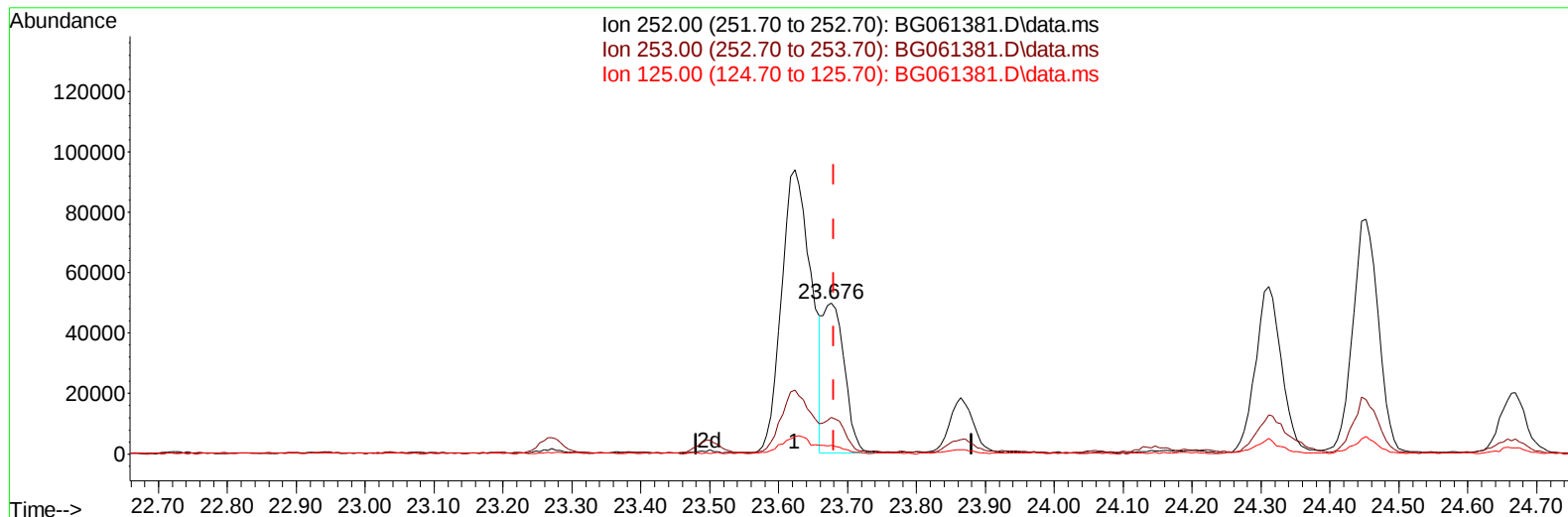
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061381.D  
Acq On : 31 May 2024 6:08  
Operator : MA/JU  
Sample : P2570-09  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:41:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

(91) Benzo(k)fluoranthene

23.676min (-0.004) 8.82 ng/u1 m

response 108925

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 20.00  | 24.08# |
| 125.00 | 5.40   | 5.71   |
| 0.00   | 0.00   | 0.00   |

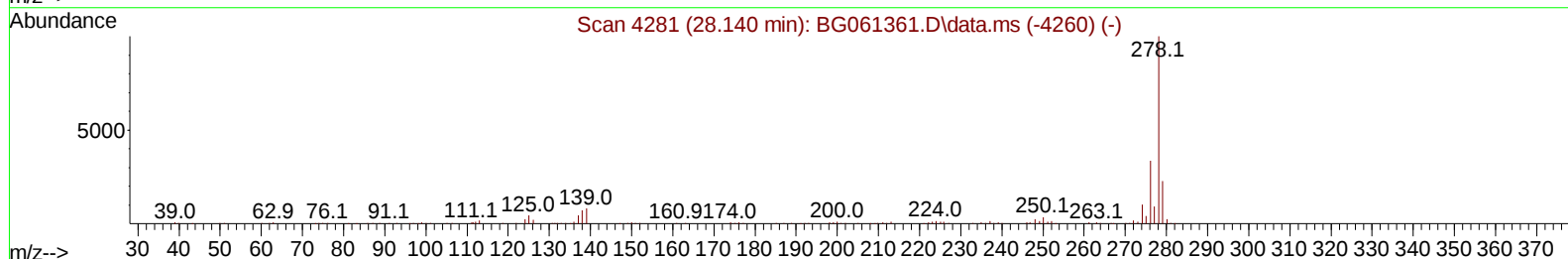
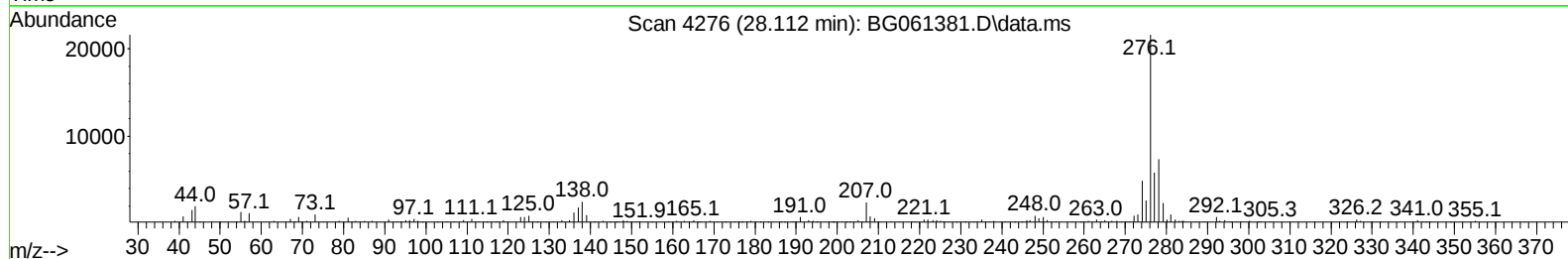
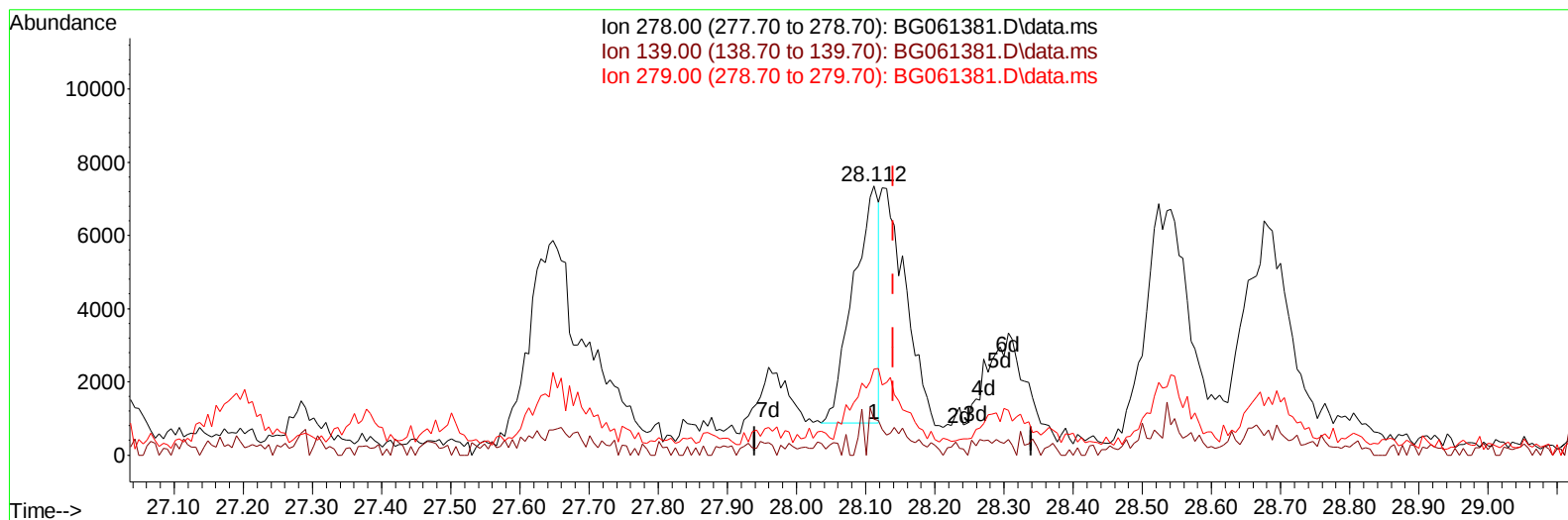
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:43:31 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

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

28.112min (-0.027) 1.44 ng/u1

response 16526

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 8.00   | 13.33# |
| 279.00 | 24.90  | 31.98# |
| 0.00   | 0.00   | 0.00   |

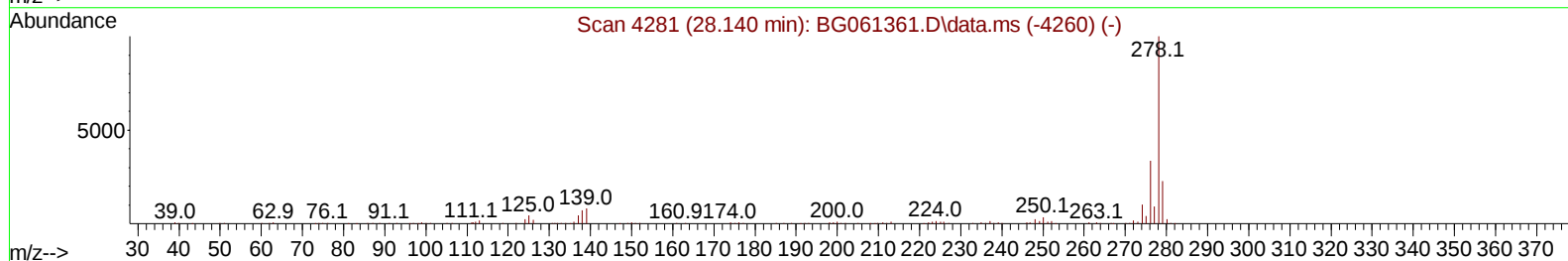
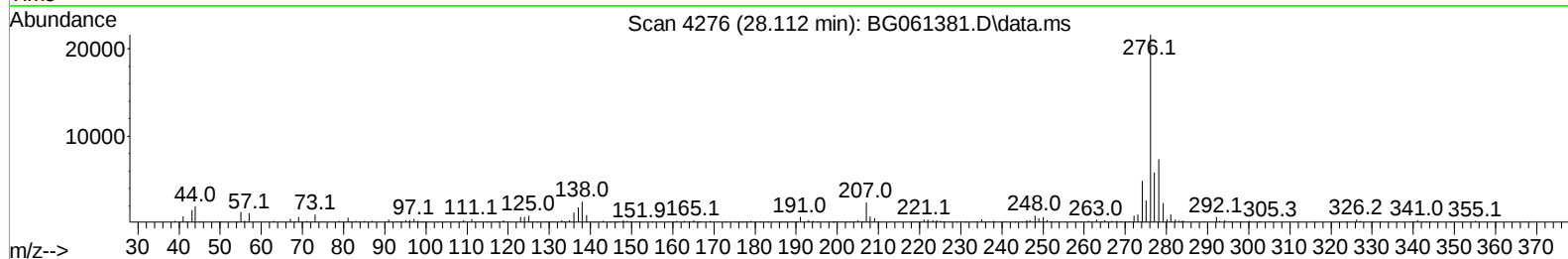
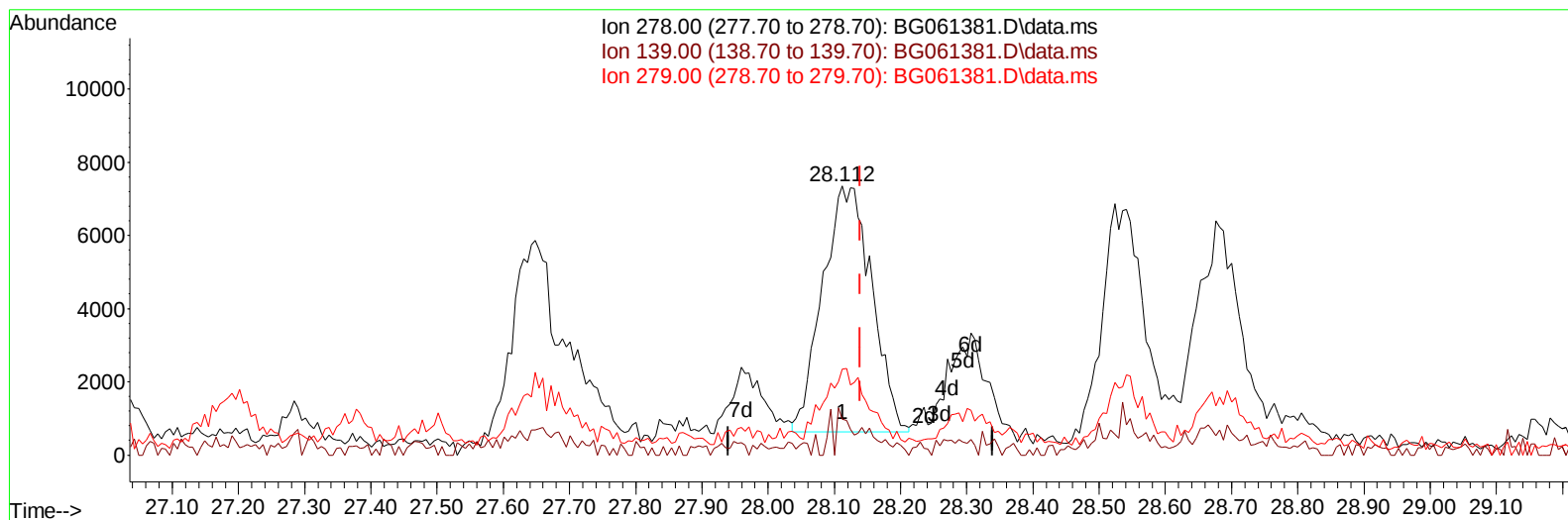
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:43:31 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

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

28.112min (-0.027) 3.01 ng/ul m

response 34618

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 8.00   | 13.33# |
| 279.00 | 24.90  | 31.98# |
| 0.00   | 0.00   | 0.00   |

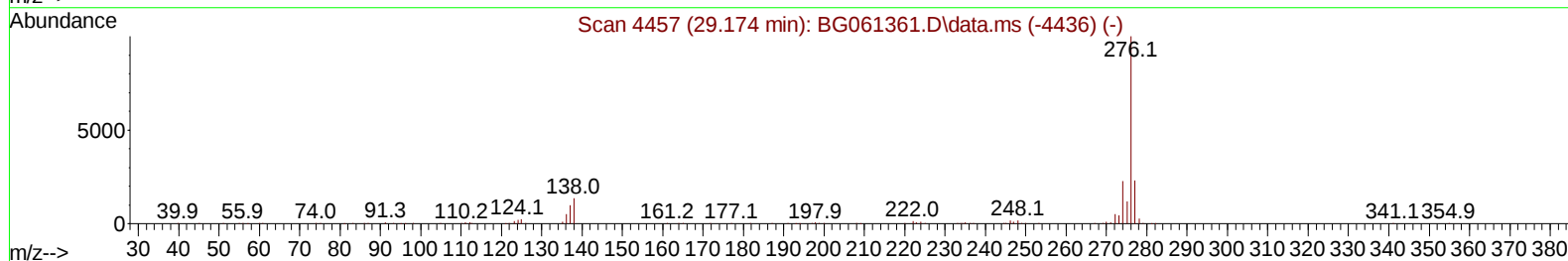
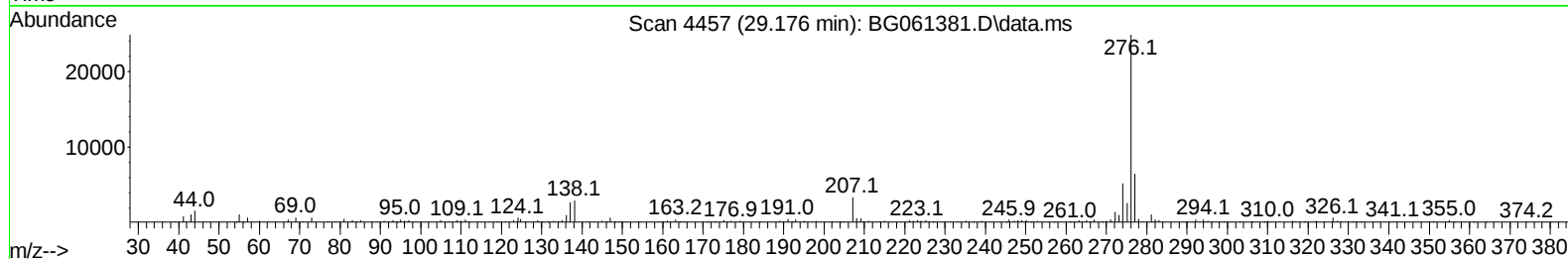
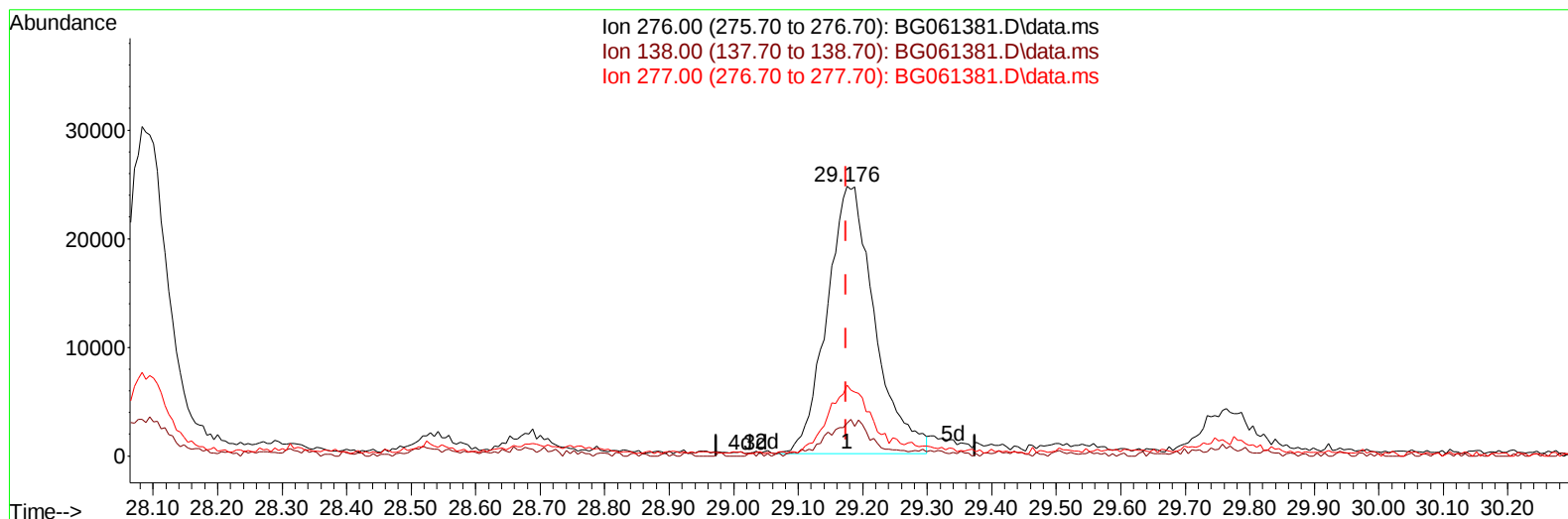
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:44:19 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

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

29.176min (+ 0.002) 11.36 ng/u1

response 126183

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.90  | 12.23  |
| 277.00 | 22.70  | 26.25  |
| 0.00   | 0.00   | 0.00   |

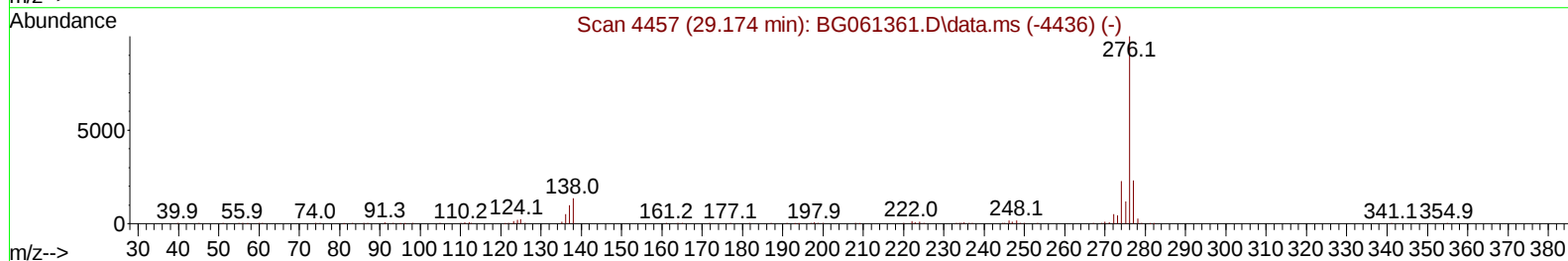
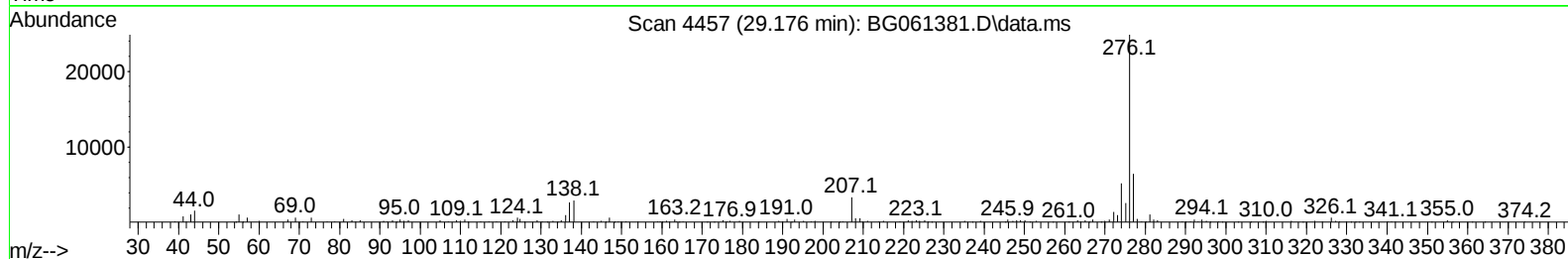
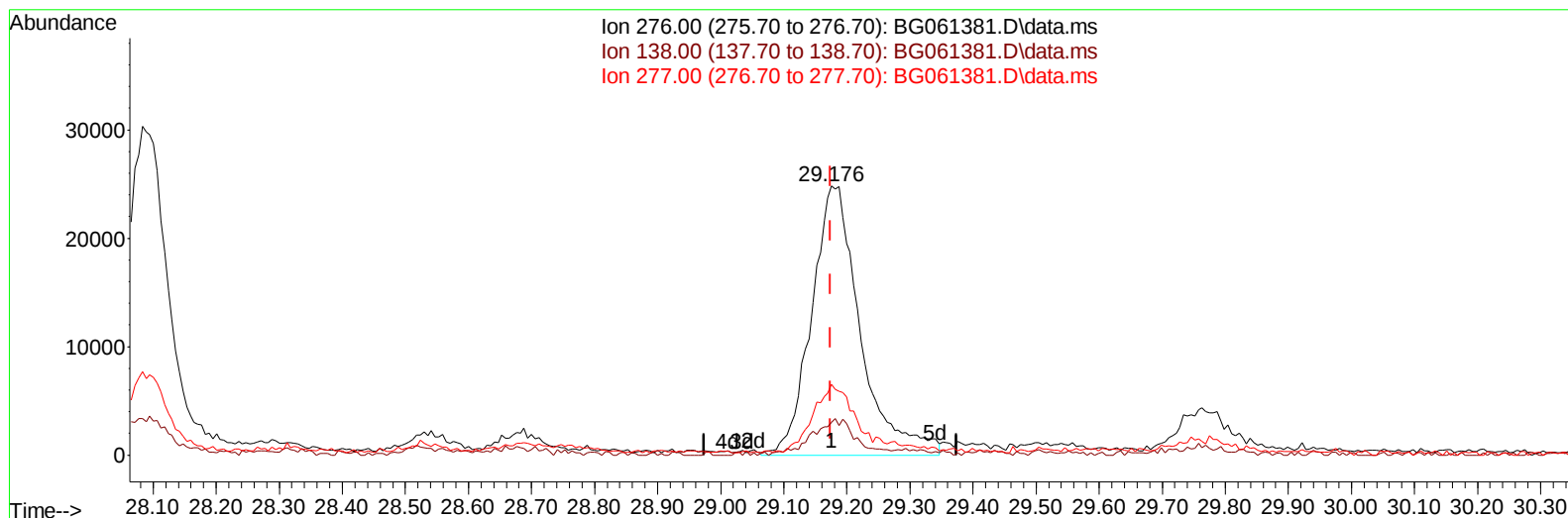
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:44:19 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061381.D\data.ms

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

29.176min (+ 0.002) 12.01 ng/ul m

response 133461

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.90  | 12.23  |
| 277.00 | 22.70  | 26.25  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:44:58 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.871  | 152  | 26217    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.668 | 136  | 101302   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.511 | 164  | 76523    | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.254 | 188  | 173765   | 20.000 | ng/ul  | # 0.00   |
| 79) Chrysene-d12              | 21.508 | 240  | 176561   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.593 | 264  | 204243   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.335  | 96   | 2459     | 5.249  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.741  | 84   | 28747    | 17.249 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.055  | 99   | 59092    | 27.447 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.201  | 67   | 39869    | 29.462 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.407  | 132  | 50602    | 31.758 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.588  | 113  | 48642    | 26.496 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.029  | 128  | 26839    | 34.411 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.751  | 143  | 32338    | 35.427 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.298 | 165  | 62391    | 35.060 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.803 | 131  | 59068    | 25.371 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.917 | 166  | 212607   | 35.823 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.199 | 160  | 233485   | 37.841 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.746 | 143  | 15083m   | 20.556 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.503 | 176  | 189736   | 37.029 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.639 | 200  | 28251    | 26.881 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.360 | 188  | 309465   | 40.396 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.652 | 212  | 372774   | 41.120 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.387 | 264  | 401180   | 40.857 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        |        | Qvalue   |
| 50) Acenaphthylene            | 14.234 | 152  | 10598m   | 1.549  | ng/ul  |          |
| 72) Phenanthrene              | 17.301 | 178  | 125606   | 14.893 | ng/ul  | 98       |
| 74) Anthracene                | 17.390 | 178  | 24711    | 2.834  | ng/ul  | 97       |
| 77) Carbazole                 | 17.666 | 167  | 11140    | 1.571  | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.224 | 149  | 14991    | 1.687  | ng/ul  | 98       |
| 80) Fluoranthene              | 19.317 | 202  | 384079   | 35.316 | ng/ul  | 100      |
| 82) Pyrene                    | 19.681 | 202  | 346659   | 30.708 | ng/ul  | 100      |
| 83) Butylbenzylphthalate      | 20.568 | 149  | 6049     | 1.560  | ng/ul  | 99       |
| 85) Benzo(a)anthracene        | 21.491 | 228  | 233223   | 19.144 | ng/ul  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 21.402 | 149  | 33442    | 5.826  | ng/ul  | 96       |
| 87) Chrysene                  | 21.555 | 228  | 221240m  | 19.722 | ng/ul  |          |
| 90) Benzo(b)fluoranthene      | 23.623 | 252  | 280122   | 23.035 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.676 | 252  | 108925m  | 8.823  | ng/ul  |          |
| 93) Benzo(a)pyrene            | 24.452 | 252  | 200912   | 17.399 | ng/ul# | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.083 | 276  | 132861   | 9.514  | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 28.112 | 278  | 34618m   | 3.007  | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.176 | 276  | 133461m  | 12.014 | ng/ul  |          |
| -----                         |        |      |          |        |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061381.D  
 Acq On : 31 May 2024 6:08  
 Operator : MA/JU  
 Sample : P2570-09  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B8

Manual IntegrationsAPPROVED

Quant Time: May 31 06:44:58 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024

