

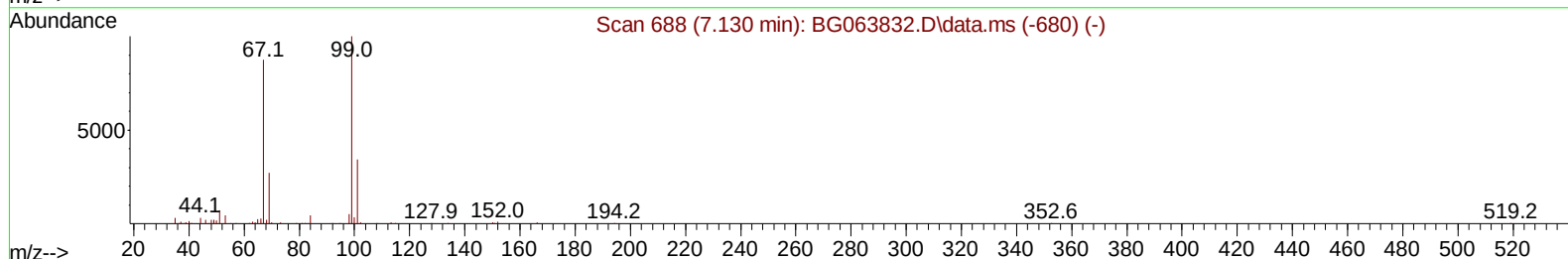
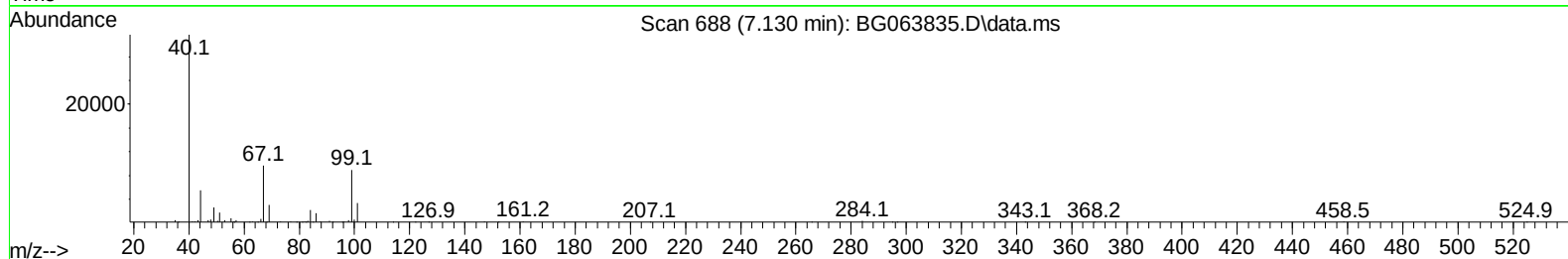
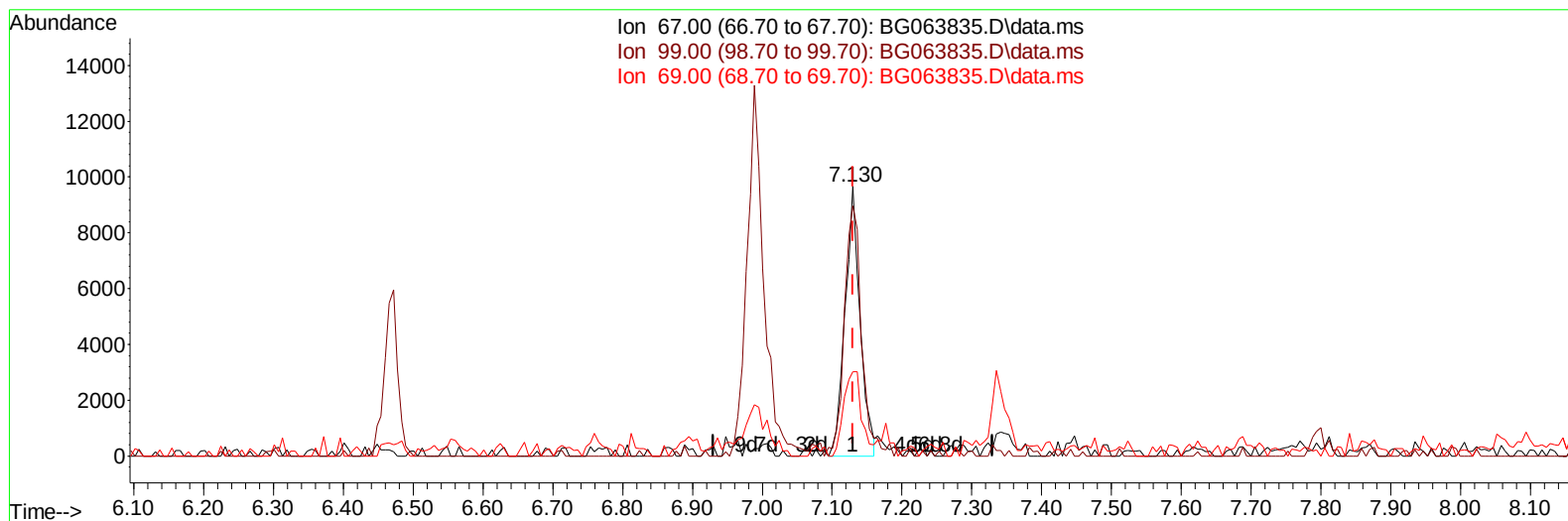
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
Data File : BG063835.D  
Acq On : 26 Dec 2024 15:08  
Operator : RC/JU  
Sample : P5333-11DL 10X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:14:15 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 24 00:44:39 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(9) Bis-(2-Chloroethyl)ether-d8 (S)

7.130min ( 0.000) 3.06 ng/u1

response 14390

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 67.00 | 100.00 | 100.00 |
| 99.00 | 106.80 | 92.69  |
| 69.00 | 34.80  | 31.37  |
| 0.00  | 0.00   | 0.00   |

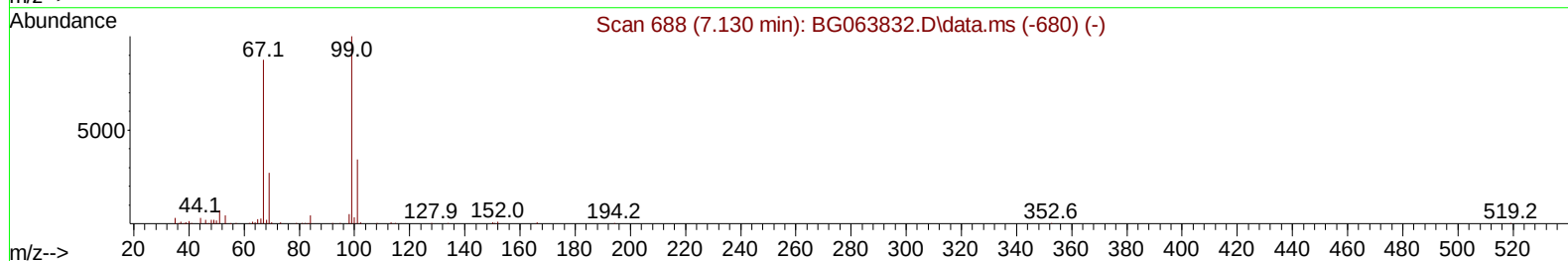
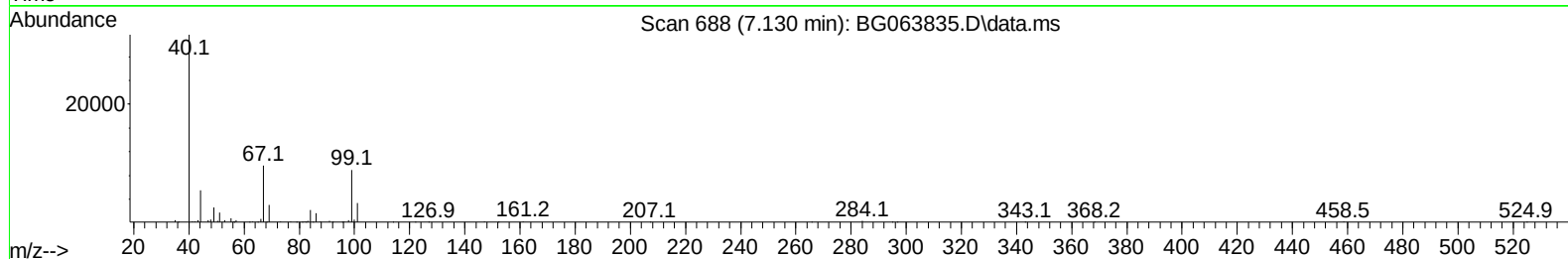
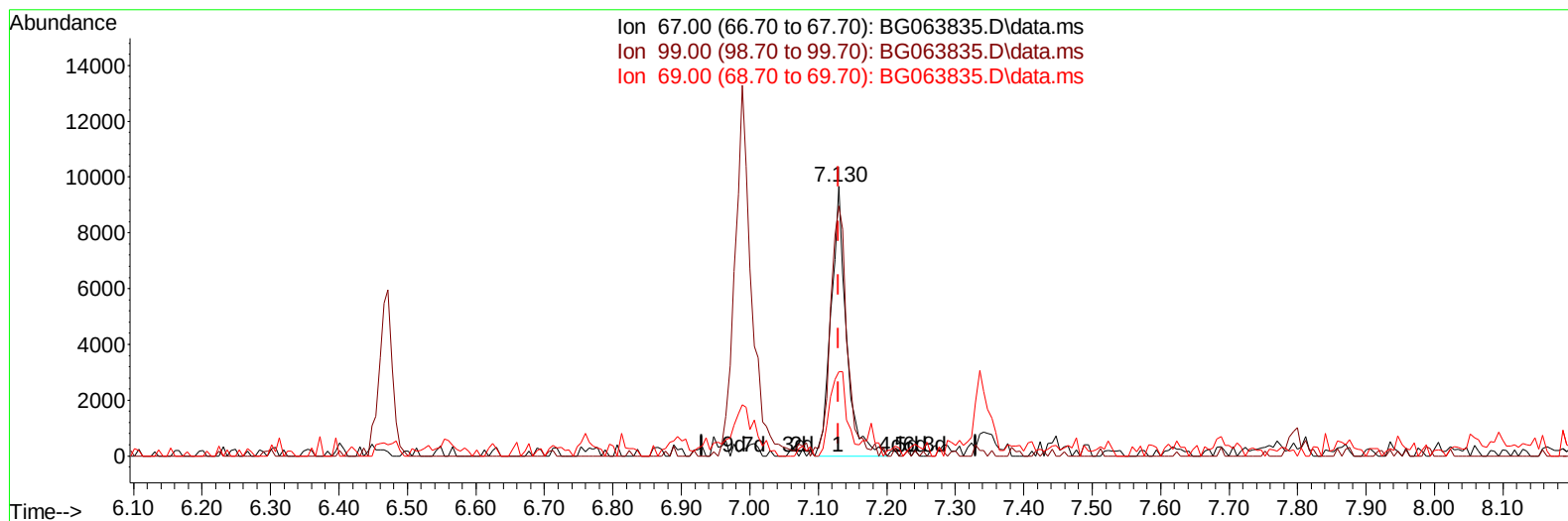
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
 Data File : BG063835.D  
 Acq On : 26 Dec 2024 15:08  
 Operator : RC/JU  
 Sample : P5333-11DL 10X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:14:15 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 24 00:44:39 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
 Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

**(9) Bis-(2-Chloroethyl)ether-d8 (S)**

7.130min ( 0.000) 3.24 ng/ul m

response 15218

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 67.00 | 100.00 | 100.00 |
| 99.00 | 106.80 | 92.69  |
| 69.00 | 34.80  | 31.37  |
| 0.00  | 0.00   | 0.00   |

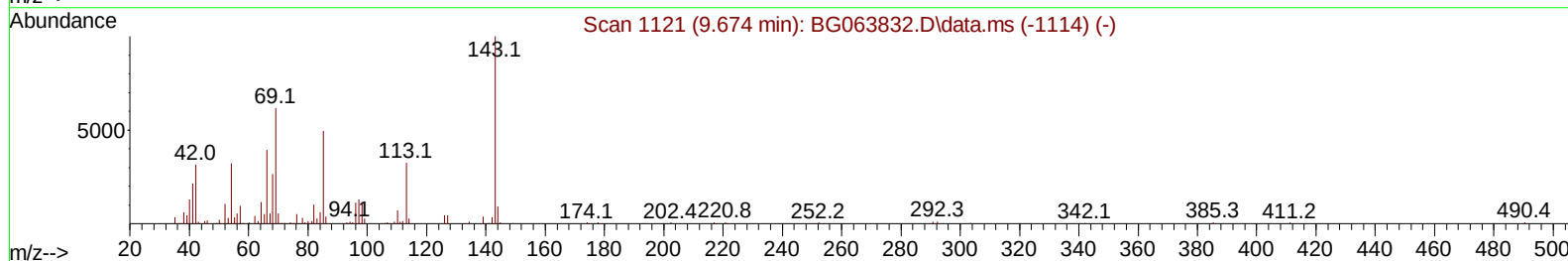
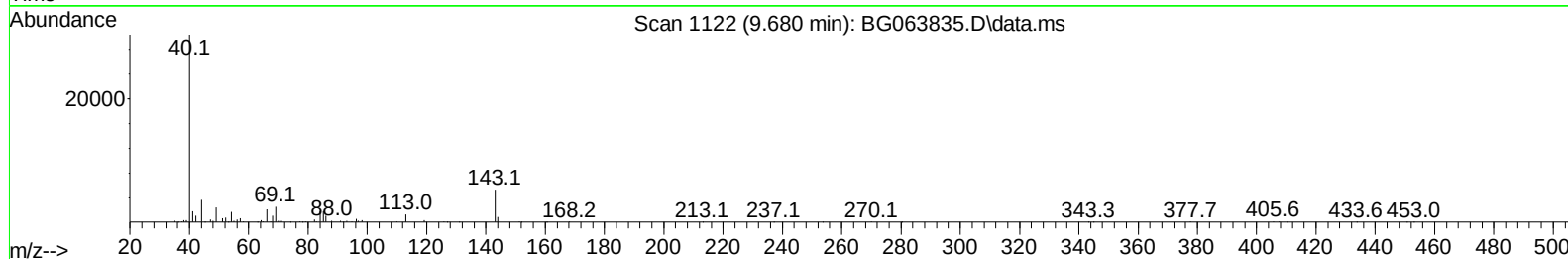
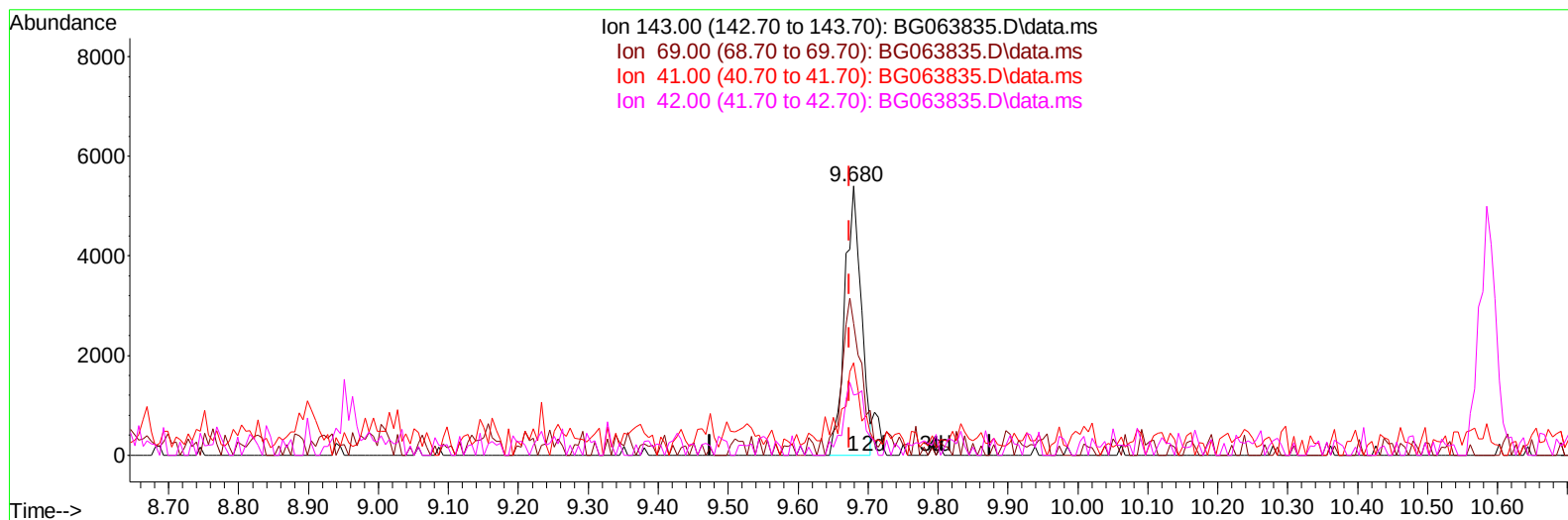
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
Data File : BG063835.D  
Acq On : 26 Dec 2024 15:08  
Operator : RC/JU  
Sample : P5333-11DL 10X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:14:15 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 24 00:44:39 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(24) 2-Nitrophenol-d4 (S)

9.680min (+ 0.006) 3.50 ng/u1

response 8901

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100.00 | 100.00 |
| 69.00  | 70.00  | 48.84# |
| 41.00  | 24.40  | 34.25# |
| 42.00  | 25.90  | 22.27  |

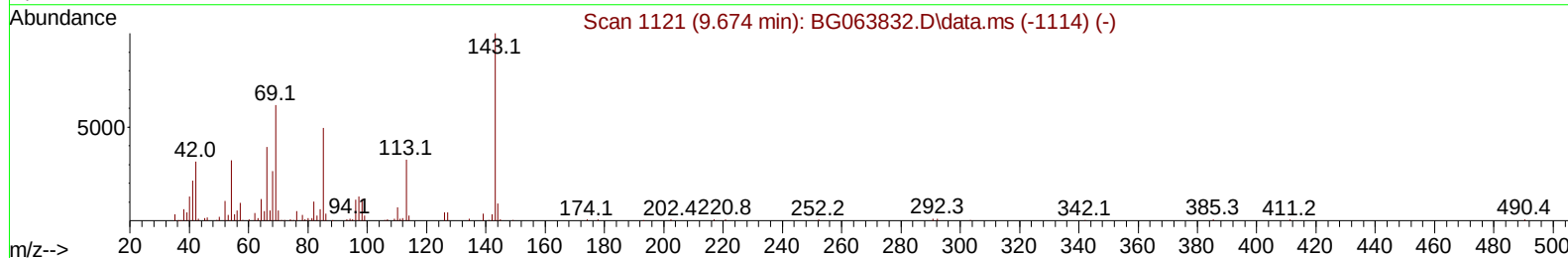
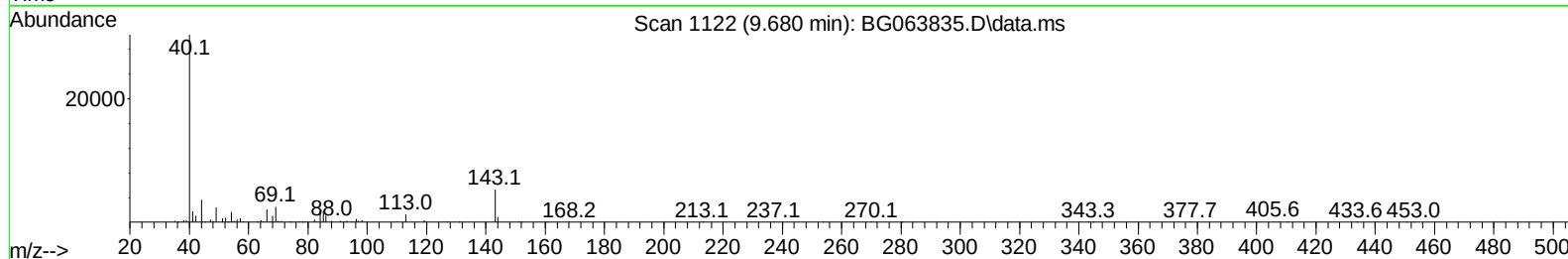
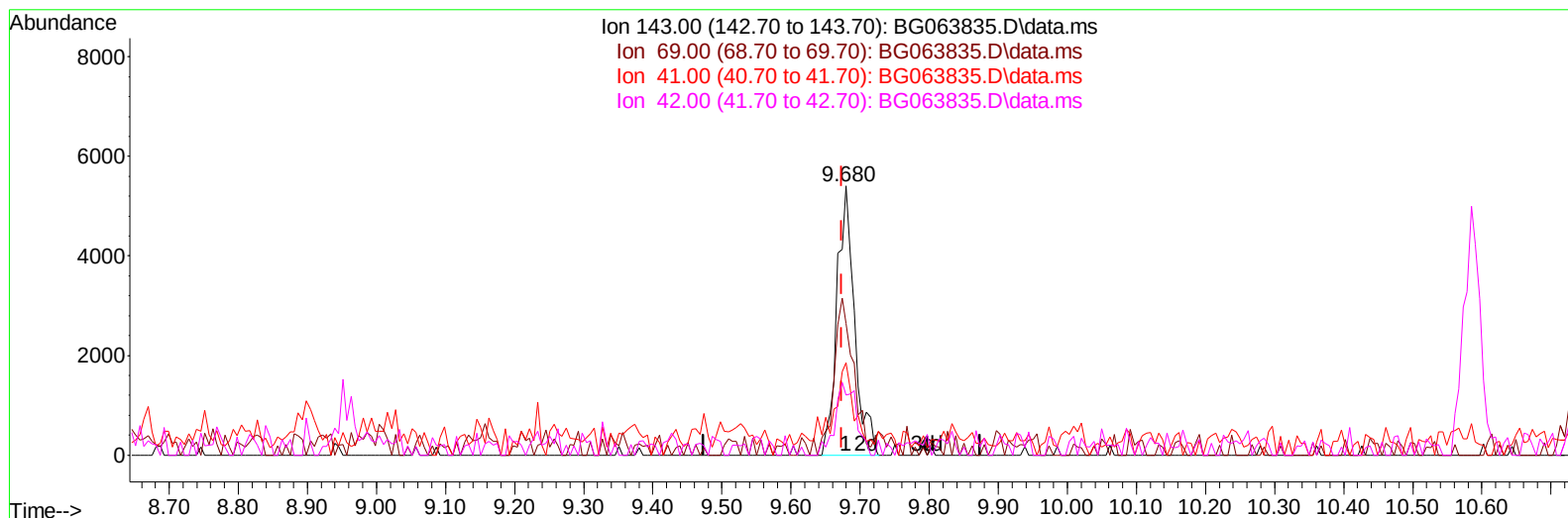
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
Data File : BG063835.D  
Acq On : 26 Dec 2024 15:08  
Operator : RC/JU  
Sample : P5333-11DL 10X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:14:15 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 24 00:44:39 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(24) 2-Nitrophenol-d4 (S)

9.680min (+ 0.006) 3.75 ng/ul m

response 9534

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100.00 | 100.00 |
| 69.00  | 70.00  | 48.84# |
| 41.00  | 24.40  | 34.25# |
| 42.00  | 25.90  | 22.27  |





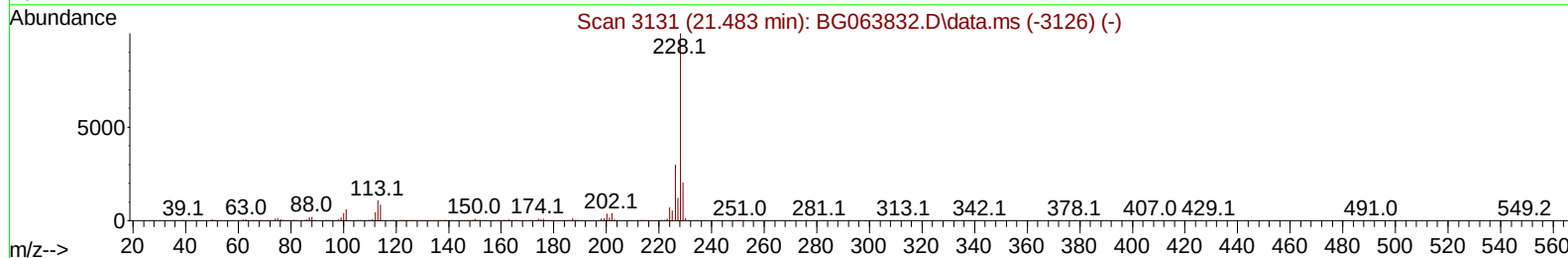
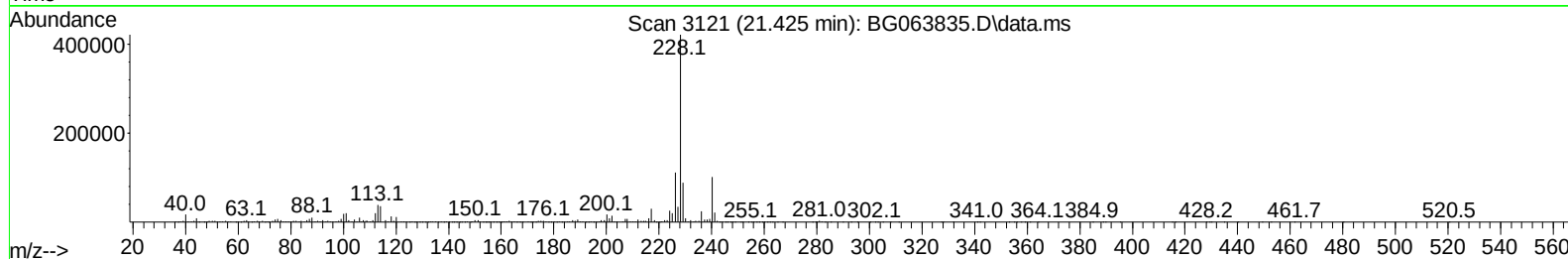
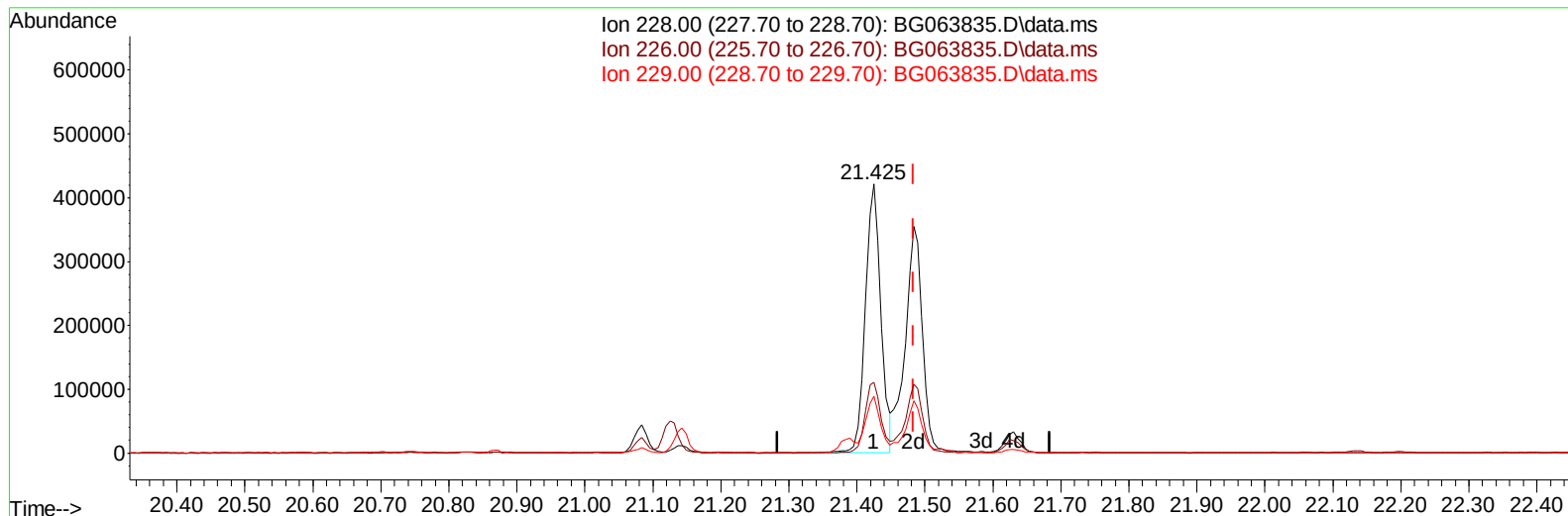
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
 Data File : BG063835.D  
 Acq On : 26 Dec 2024 15:08  
 Operator : RC/JU  
 Sample : P5333-11DL 10X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:16:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 24 00:44:39 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
 Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(87) Chrysene

21.425min (-0.059) 16.18 ng/u1

response 669441

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 29.20  | 26.41  |
| 229.00 | 18.50  | 21.15  |
| 0.00   | 0.00   | 0.00   |

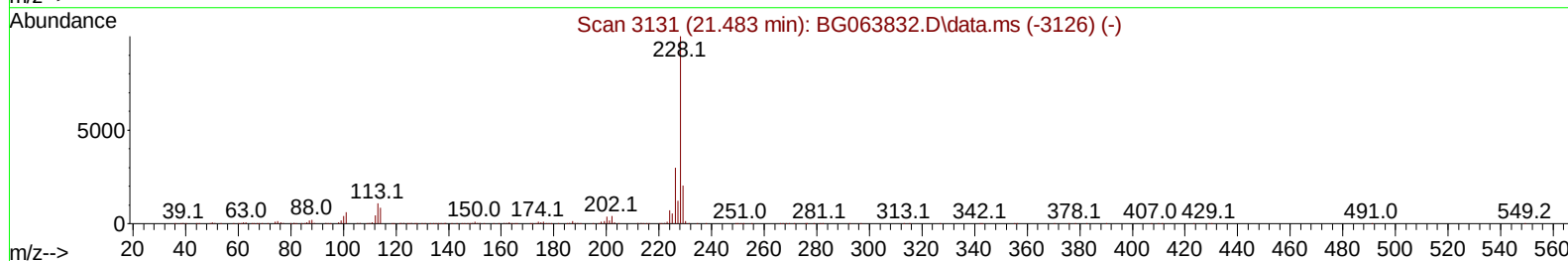
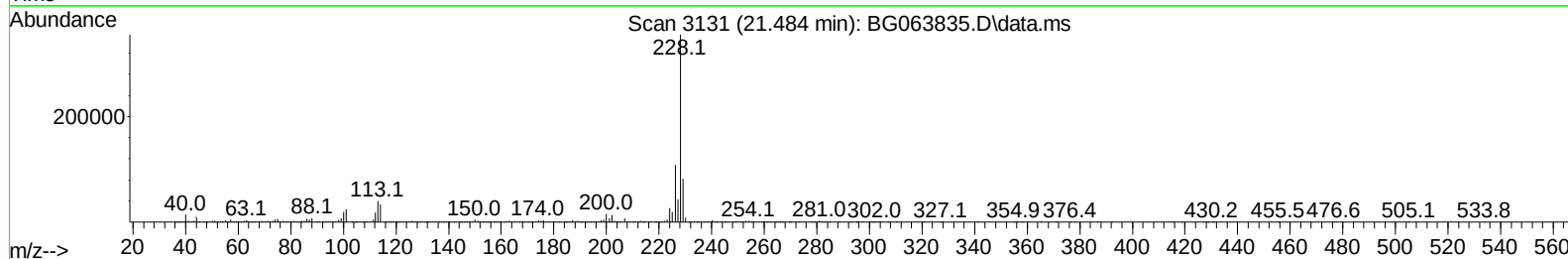
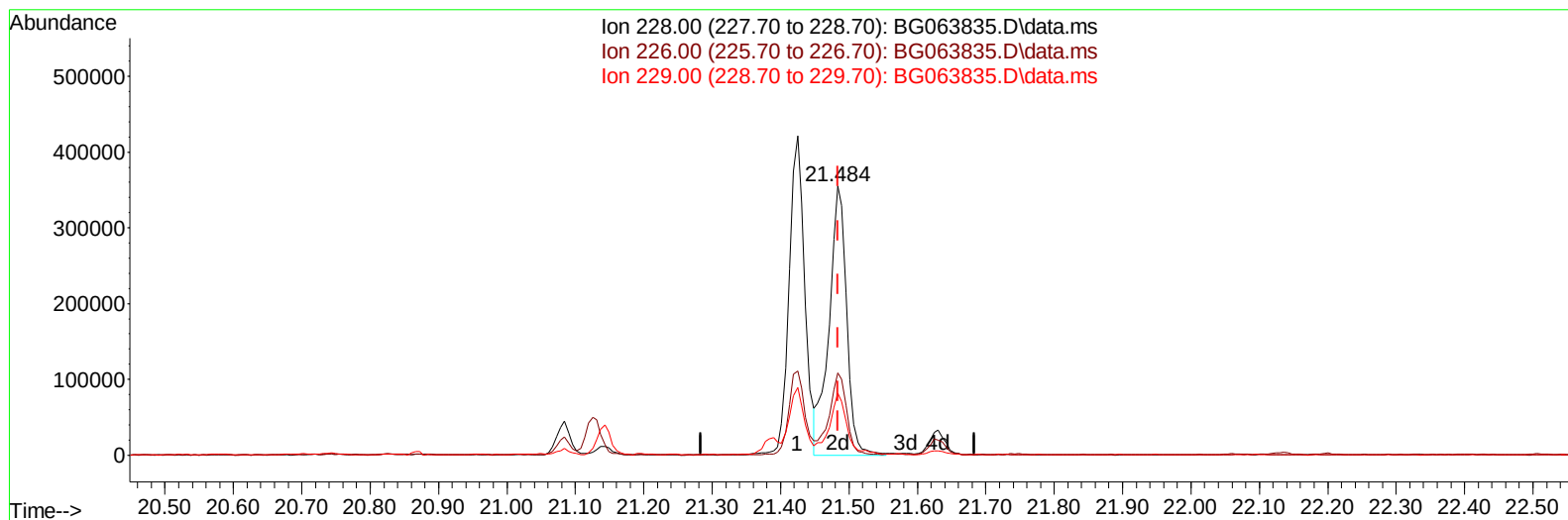
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
Data File : BG063835.D  
Acq On : 26 Dec 2024 15:08  
Operator : RC/JU  
Sample : P5333-11DL 10X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:16:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 24 00:44:39 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(87) Chrysene

21.484min ( 0.000) 15.38 ng/ul m

response 636368

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 29.20  | 30.47  |
| 229.00 | 18.50  | 23.05# |
| 0.00   | 0.00   | 0.00   |



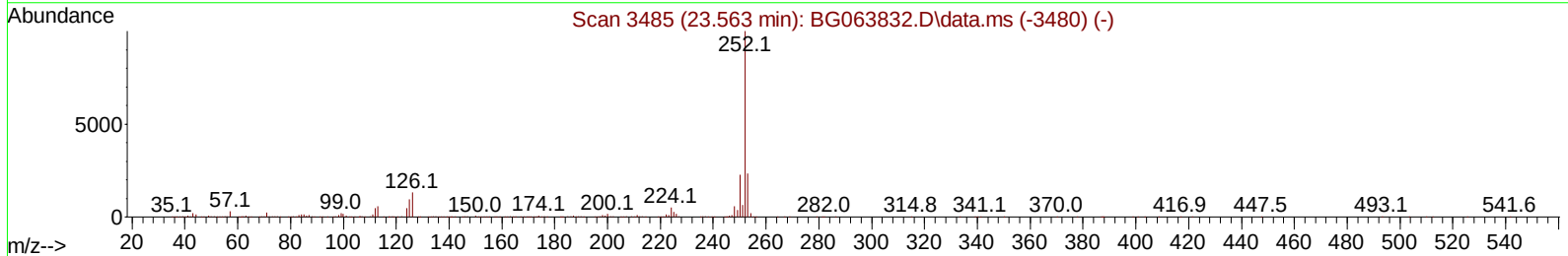
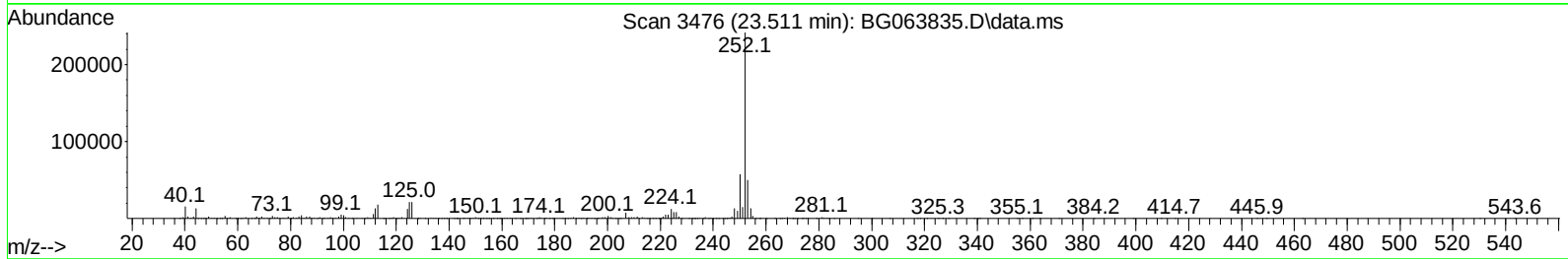
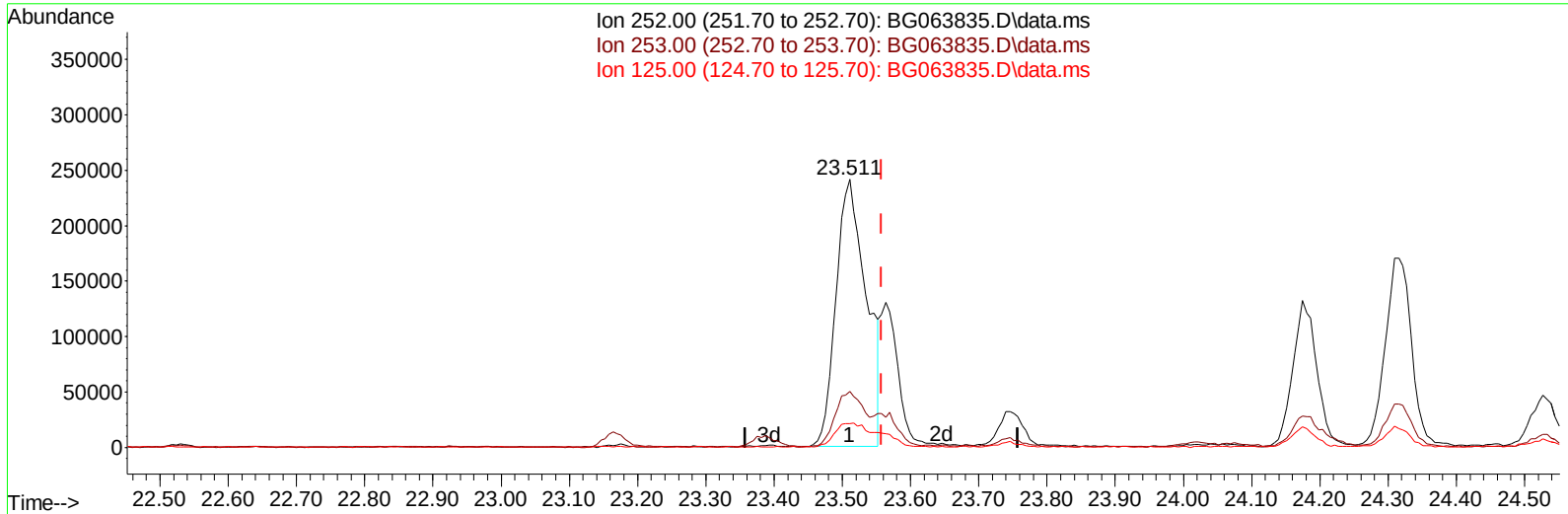
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
 Data File : BG063835.D  
 Acq On : 26 Dec 2024 15:08  
 Operator : RC/JU  
 Sample : P5333-11DL 10X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:16:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 24 00:44:39 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
 Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

**(91) Benzo(k)fluoranthene**

**23.511min (-0.047) 18.00 ng/u1**

**response 744469**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 22.10  | 20.79  |
| 125.00 | 8.10   | 8.98   |
| 0.00   | 0.00   | 0.00   |

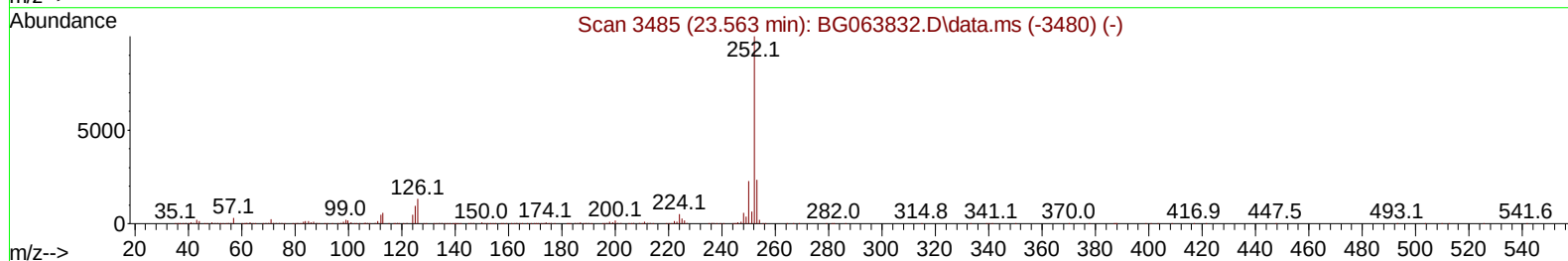
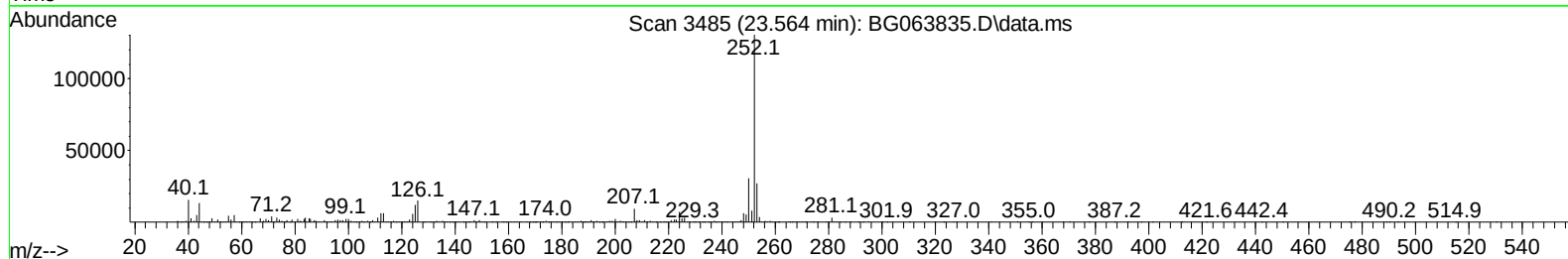
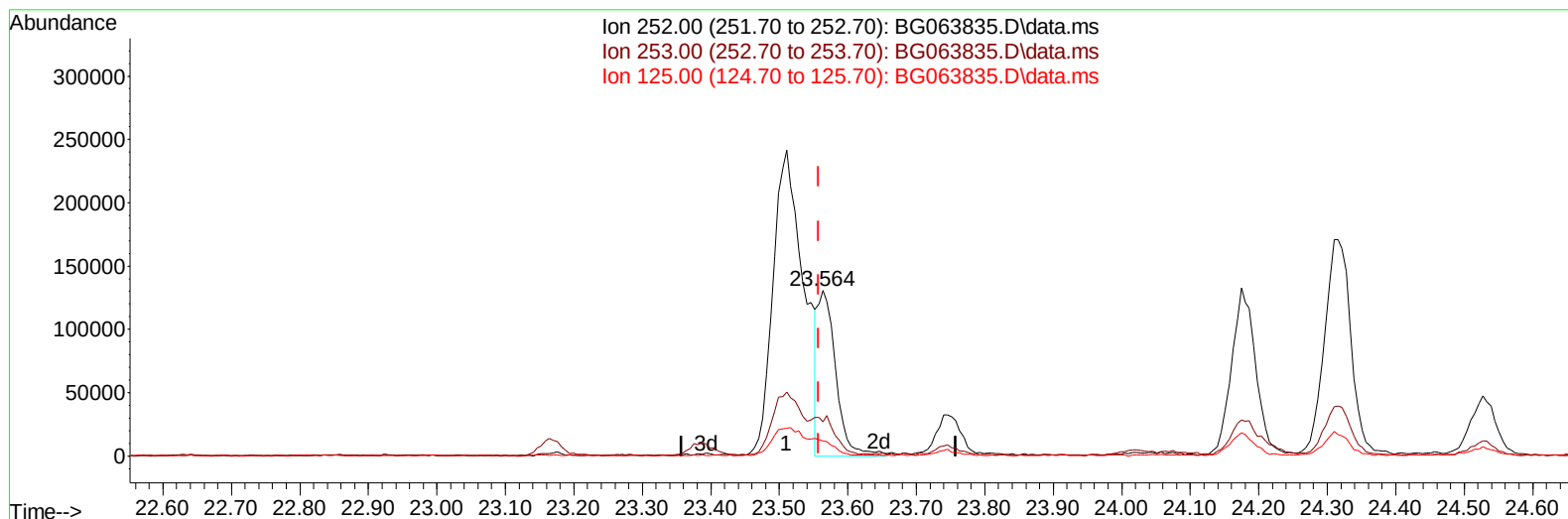
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
Data File : BG063835.D  
Acq On : 26 Dec 2024 15:08  
Operator : RC/JU  
Sample : P5333-11DL 10X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:16:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 24 00:44:39 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(91) Benzo(k)fluoranthene

23.564min (+ 0.006) 5.75 ng/u l m

response 237764

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 22.10  | 20.73  |
| 125.00 | 8.10   | 9.22   |
| 0.00   | 0.00   | 0.00   |

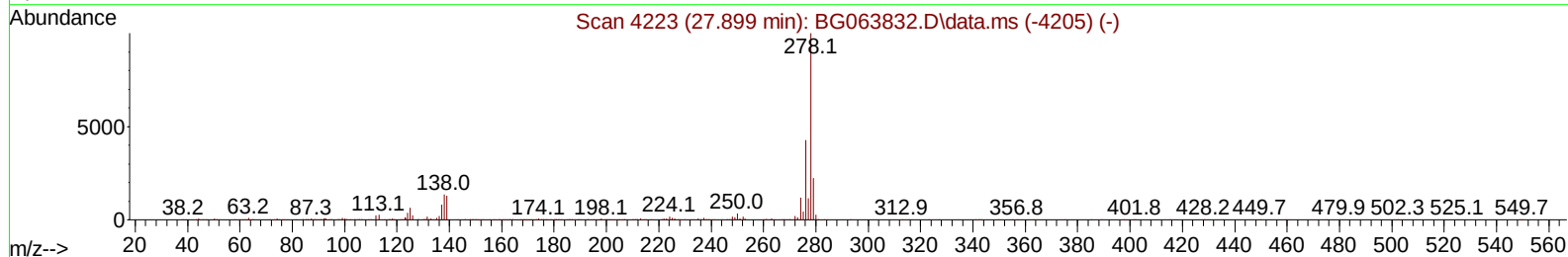
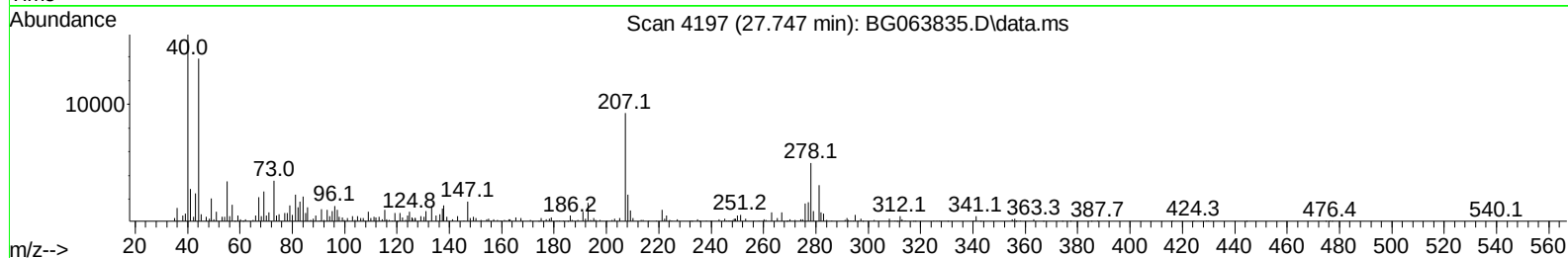
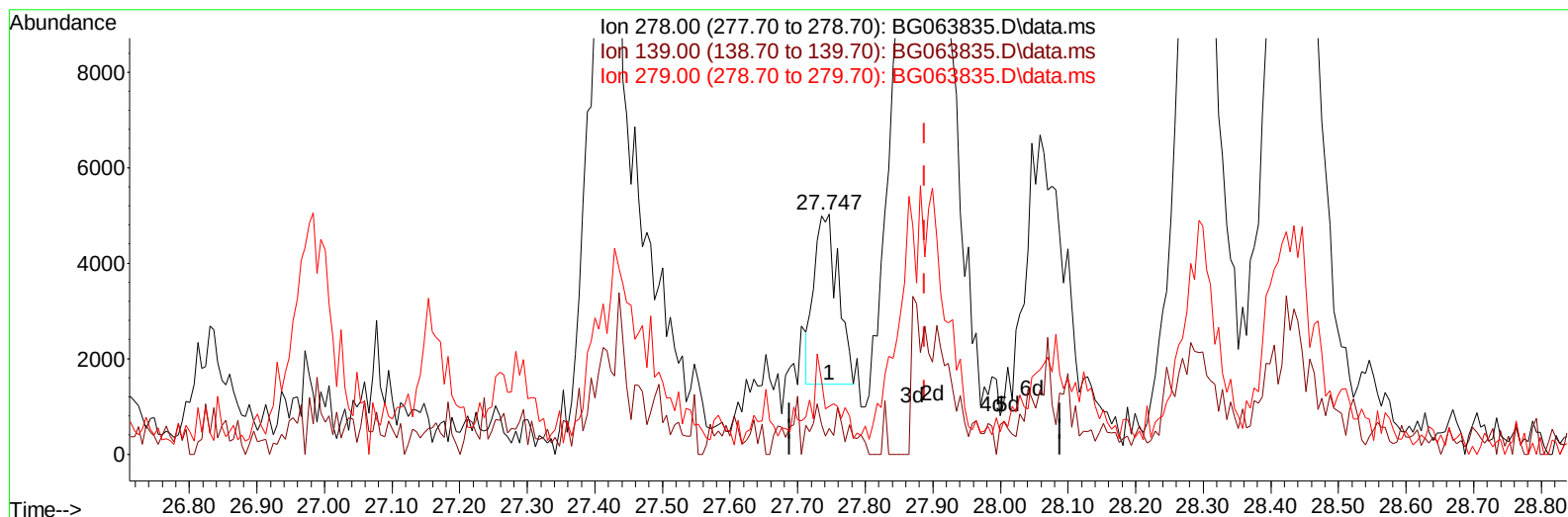
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
Data File : BG063835.D  
Acq On : 26 Dec 2024 15:08  
Operator : RC/JU  
Sample : P5333-11DL 10X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:17:08 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 24 00:44:39 2024  
Response via : Initial Calibration

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Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(95) Dibenzo(a,h)anthracene

27.747min (-0.141) 0.23 ng/uL

response 8815

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 12.10  | 10.74  |
| 279.00 | 21.60  | 19.80  |
| 0.00   | 0.00   | 0.00   |

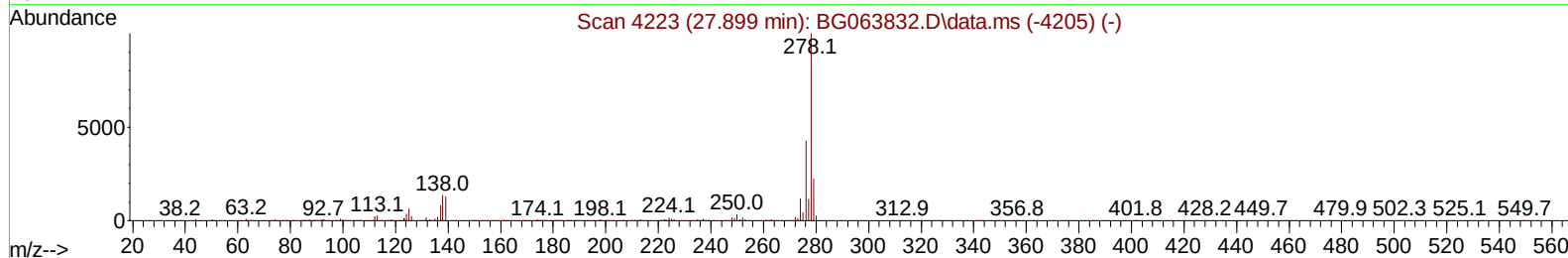
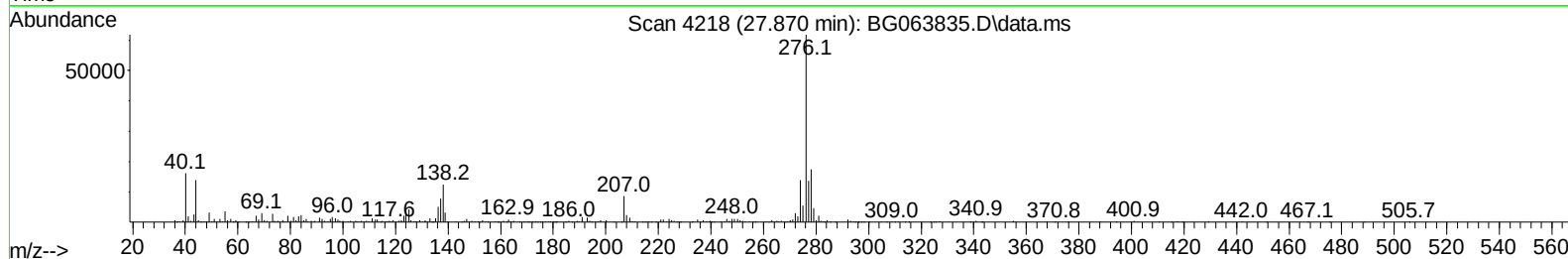
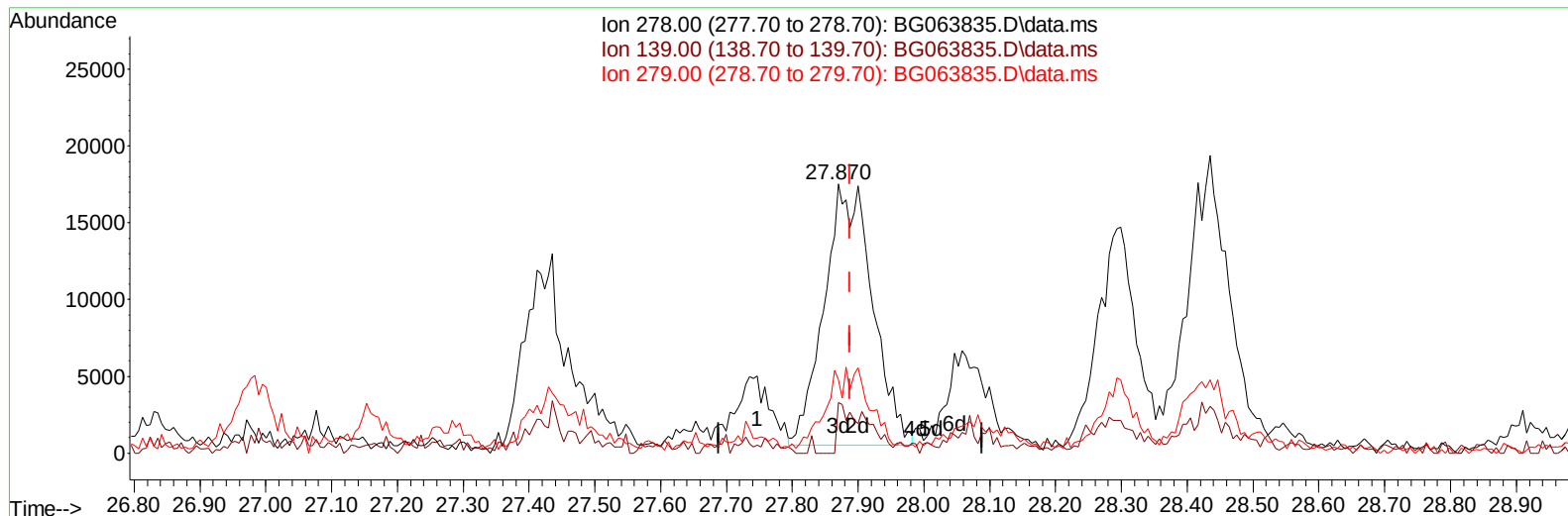
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
Data File : BG063835.D  
Acq On : 26 Dec 2024 15:08  
Operator : RC/JU  
Sample : P5333-11DL 10X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:17:08 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 24 00:44:39 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

(95) Dibenzo(a,h)anthracene

27.870min (-0.018) 2.27 ng/ul m

response 86453

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 12.10  | 18.86# |
| 279.00 | 21.60  | 27.25# |
| 0.00   | 0.00   | 0.00   |

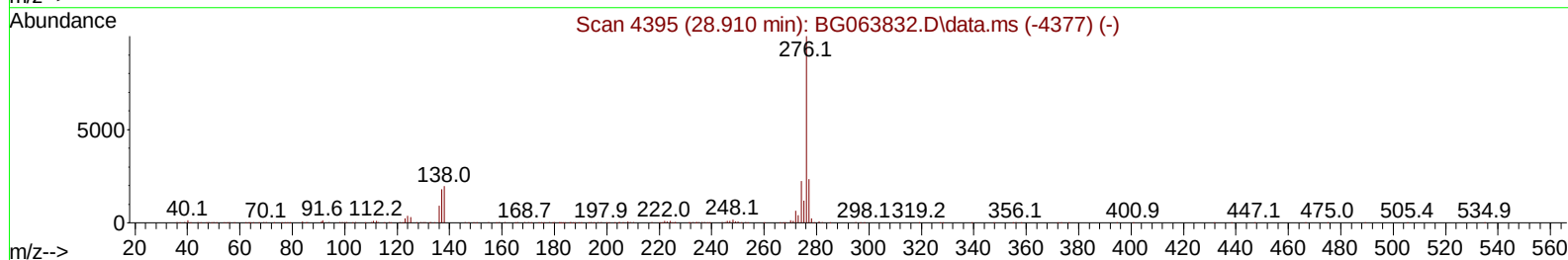
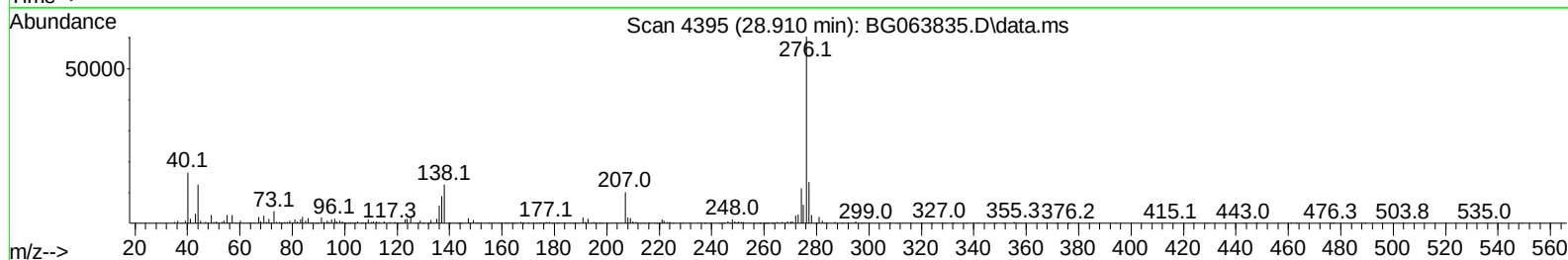
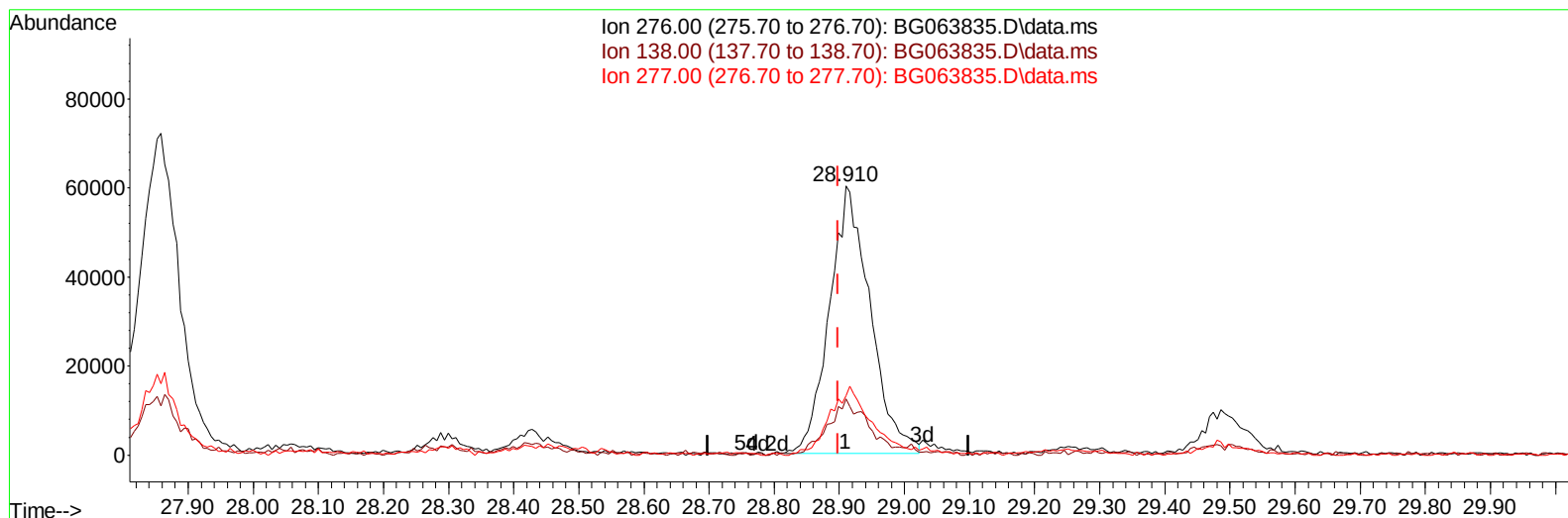
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
 Data File : BG063835.D  
 Acq On : 26 Dec 2024 15:08  
 Operator : RC/JU  
 Sample : P5333-11DL 10X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:17:08 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 24 00:44:39 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
 Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

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

28.910min (+ 0.012) 6.94 ng/u1

response 261878

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 17.30  | 20.78# |
| 277.00 | 22.30  | 22.15  |
| 0.00   | 0.00   | 0.00   |

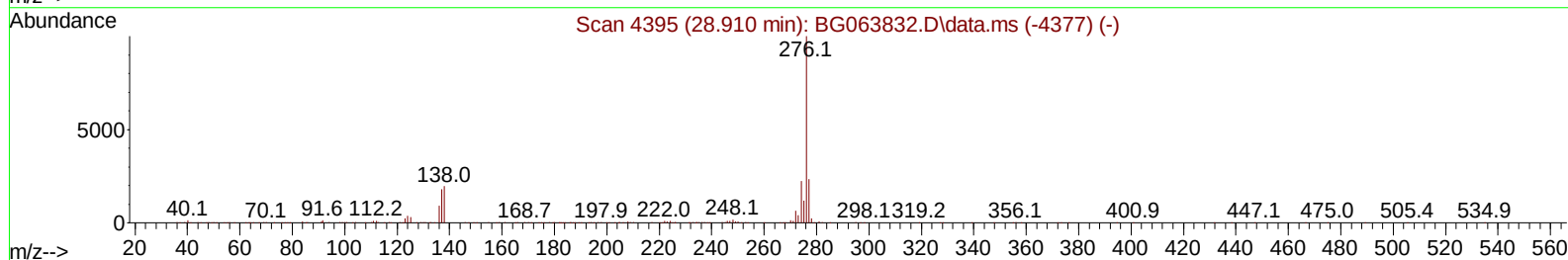
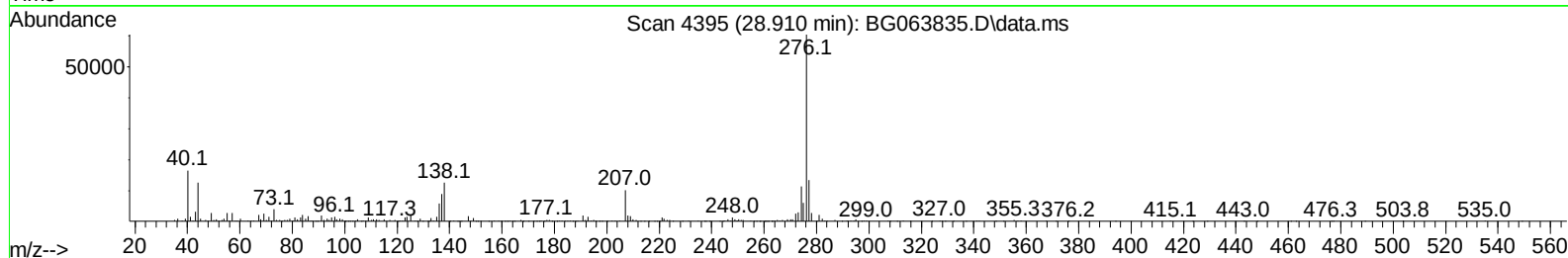
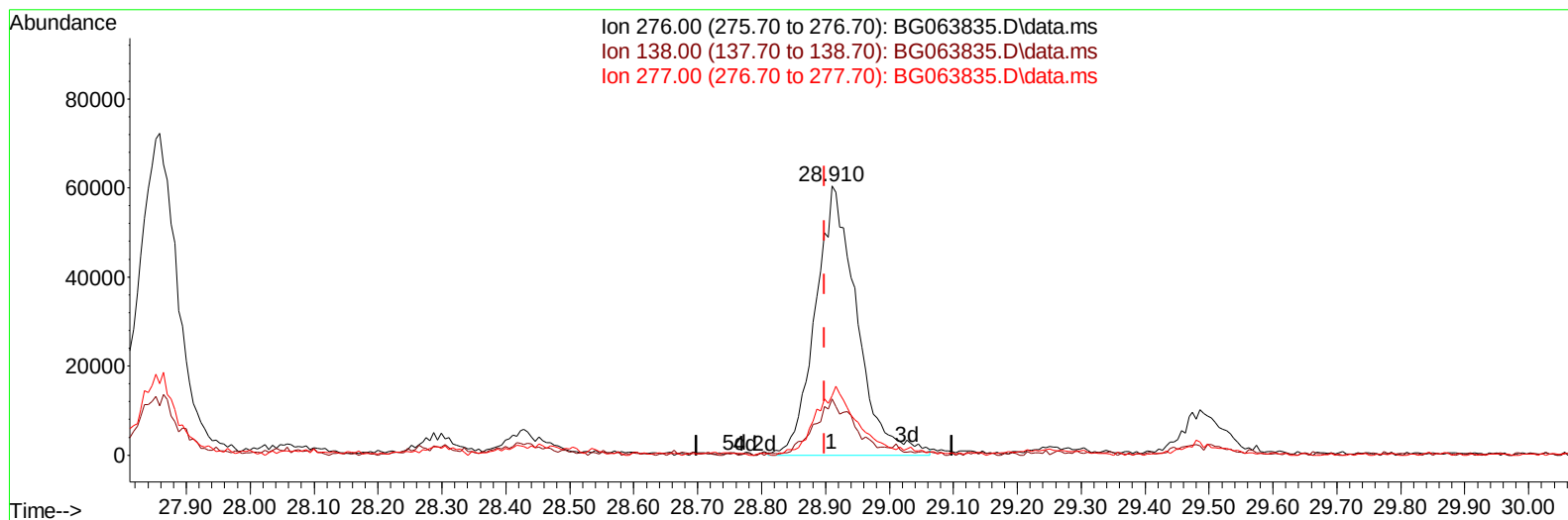
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
 Data File : BG063835.D  
 Acq On : 26 Dec 2024 15:08  
 Operator : RC/JU  
 Sample : P5333-11DL 10X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:17:08 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 24 00:44:39 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
 Supervised By :mohammad ahmed 12/30/2024



TIC: BG063835.D\data.ms

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

28.910min (+ 0.012) 7.21 ng/ul m

response 272004

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 17.30  | 20.78# |
| 277.00 | 22.30  | 22.15  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122624\  
 Data File : BG063835.D  
 Acq On : 26 Dec 2024 15:08  
 Operator : RC/JU  
 Sample : P5333-11DL 10X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E2913DL

Manual IntegrationsAPPROVED

Quant Time: Dec 27 02:18:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 24 00:44:39 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/27/2024  
 Supervised By :mohammad ahmed 12/30/2024

| Compound                      | R.T.   | Q   | Ion | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|-----|-----|----------|--------|--------|----------|
| -----                         |        |     |     |          |        |        |          |
| Internal Standards            |        |     |     |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.794  | 152 |     | 73820    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.585 | 136 |     | 317429   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.439 | 164 |     | 262792   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.195 | 188 |     | 663269   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.442 | 240 |     | 692813   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.457 | 264 |     | 729566   | 20.000 | ng/ul  | 0.01     |
| System Monitoring Compounds   |        |     |     |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 0.000  | 96  |     | 0d       | 0.000  | ng/uL  |          |
| 4) Pyridine-d5                | 0.000  | 84  |     | 0d       | 0.000  | ng/ul  |          |
| 7) Phenol-d5                  | 6.989  | 99  |     | 22503    | 3.310  | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.130  | 67  |     | 15218m   | 3.241  | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.335  | 132 |     | 14684    | 3.336  | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.522  | 113 |     | 16413    | 3.109  | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 8.957  | 128 |     | 7126     | 3.144  | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.680  | 143 |     | 9534m    | 3.753  | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.238 | 165 |     | 17843    | 3.627  | ng/ul  | 0.02     |
| 31) 4-Chloroaniline-d4        | 10.732 | 131 |     | 12526m   | 2.006  | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.851 | 166 |     | 30028    | 1.679  | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.128 | 160 |     | 74161    | 3.638  | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 0.000  | 143 |     | 0d       | 0.000  | ng/ul  |          |
| 60) Fluorene-d10              | 15.438 | 176 |     | 57137    | 3.614  | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200 |     | 0d       | 0.000  | ng/ul  |          |
| 73) Anthracene-d10            | 17.289 | 188 |     | 110199   | 3.864  | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.592 | 212 |     | 110101   | 3.054  | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.251 | 264 |     | 78219    | 2.283  | ng/ul  | 0.00     |
| Target Compounds              |        |     |     |          |        |        |          |
|                               |        |     |     |          |        | Qvalue |          |
| 30) Naphthalene               | 10.637 | 128 |     | 39094    | 2.463  | ng/ul  | 99       |
| 36) 2-Methylnaphthalene       | 12.259 | 142 |     | 17580    | 1.541  | ng/ul  | 90       |
| 37) 1-Methylnaphthalene       | 12.477 | 142 |     | 13354    | 1.149  | ng/ul# | 81       |
| 52) Acenaphthene              | 14.504 | 153 |     | 88270    | 5.698  | ng/ul  | 95       |
| 56) Dibenzofuran              | 14.844 | 168 |     | 99913    | 4.575  | ng/ul  | 96       |
| 61) Fluorene                  | 15.491 | 166 |     | 75970    | 4.356  | ng/ul  | 99       |
| 72) Phenanthrene              | 17.236 | 178 |     | 1532105  | 47.934 | ng/ul  | 99       |
| 74) Anthracene                | 17.324 | 178 |     | 270231   | 8.353  | ng/ul  | 98       |
| 77) Carbazole                 | 17.600 | 167 |     | 157379   | 6.010  | ng/ul  | 96       |
| 80) Fluoranthene              | 19.257 | 202 |     | 1693957  | 41.339 | ng/ul  | 97       |
| 82) Pyrene                    | 19.621 | 202 |     | 1337494  | 30.679 | ng/ul  | 95       |
| 85) Benzo(a)anthracene        | 21.425 | 228 |     | 670037   | 15.432 | ng/ul  | 97       |
| 87) Chrysene                  | 21.484 | 228 |     | 636368m  | 15.378 | ng/ul  |          |
| 90) Benzo(b)fluoranthene      | 23.511 | 252 |     | 744469   | 17.954 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.564 | 252 |     | 237764m  | 5.748  | ng/ul  |          |
| 93) Benzo(a)pyrene            | 24.310 | 252 |     | 452840   | 11.635 | ng/ul  | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.858 | 276 |     | 299859   | 6.309  | ng/ul  | 97       |
| 95) Dibenzo(a,h)anthracene    | 27.870 | 278 |     | 86453m   | 2.273  | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 28.910 | 276 |     | 272004m  | 7.212  | ng/ul  |          |
| -----                         |        |     |     |          |        |        |          |

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

