

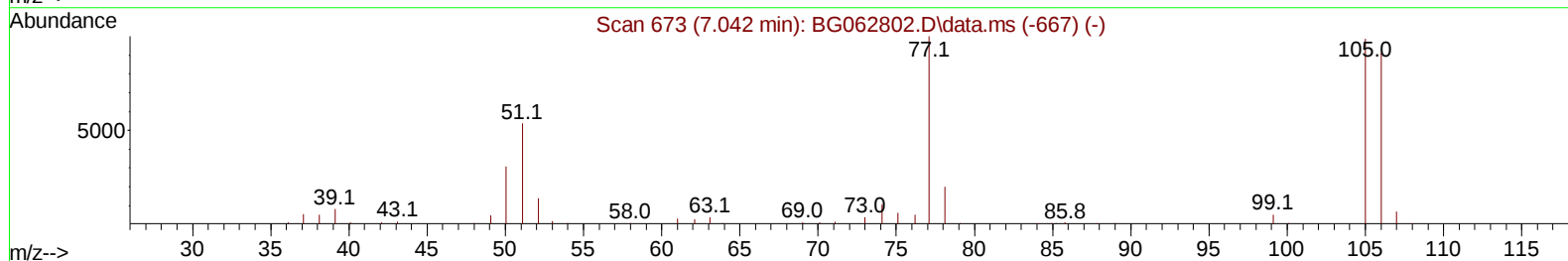
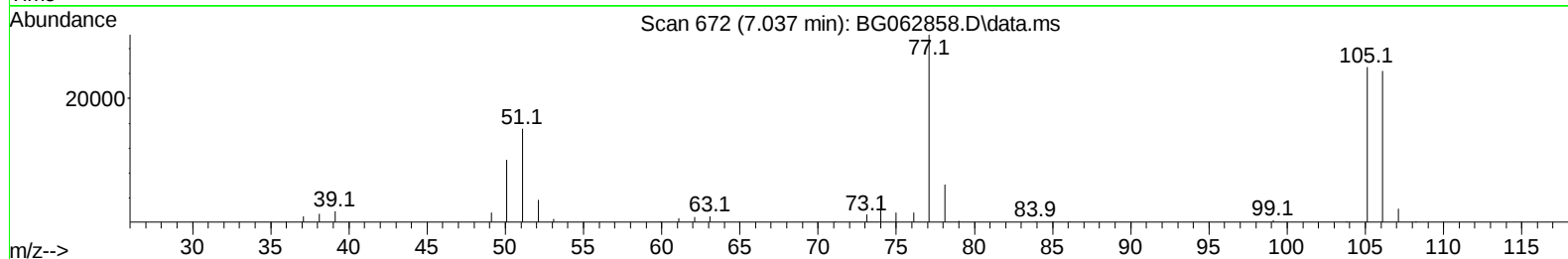
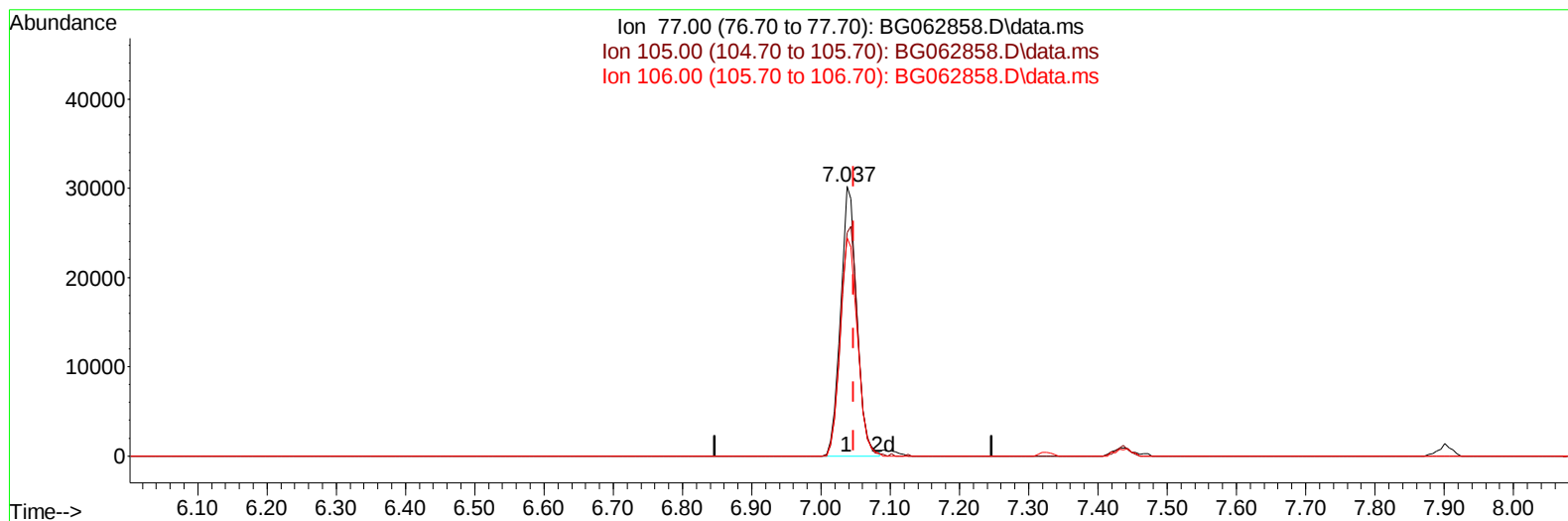
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
Data File : BG062858.D  
Acq On : 15 Sep 2024 23:26  
Operator : JU/RC  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC020

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024

Quant Time: Sep 16 00:08:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 01:28:17 2024  
Response via : Initial Calibration



TIC: BG062858.D\data.ms

## (6) Benzaldehyde

7.037min (-0.010) 20.45 ng/u1

response 49172

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 77.00  | 100.00 | 100.00 |
| 105.00 | 98.70  | 82.83  |
| 106.00 | 86.30  | 80.95  |
| 0.00   | 0.00   | 0.00   |

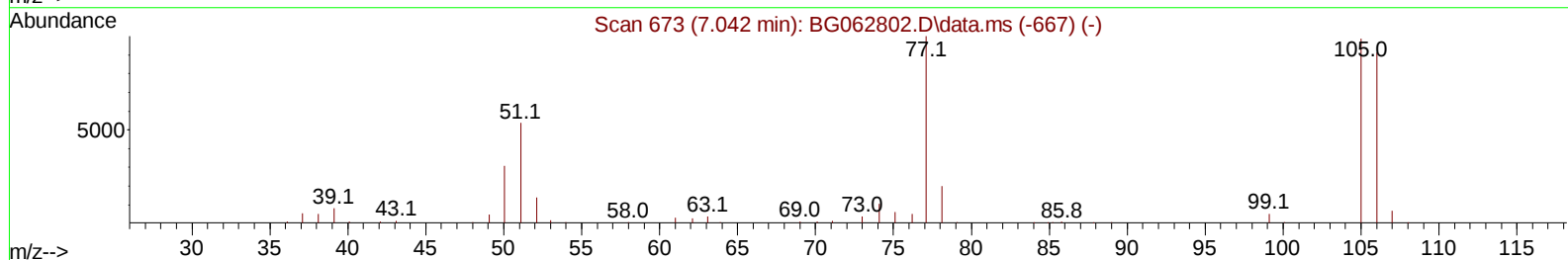
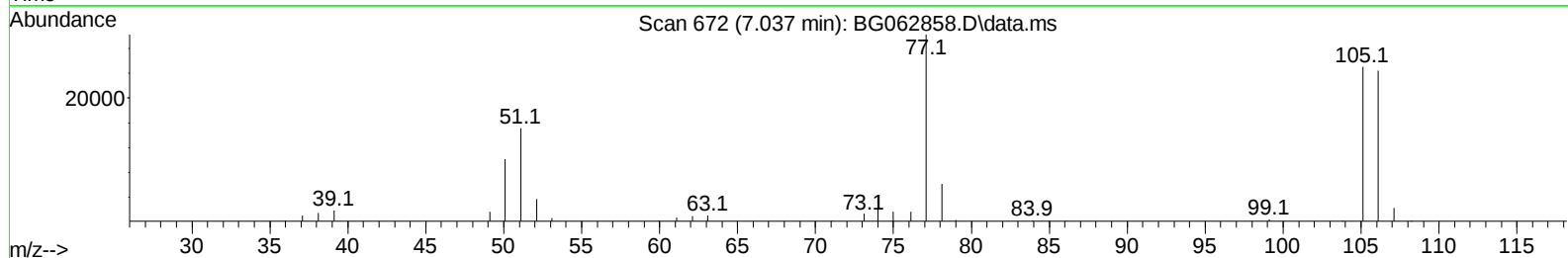
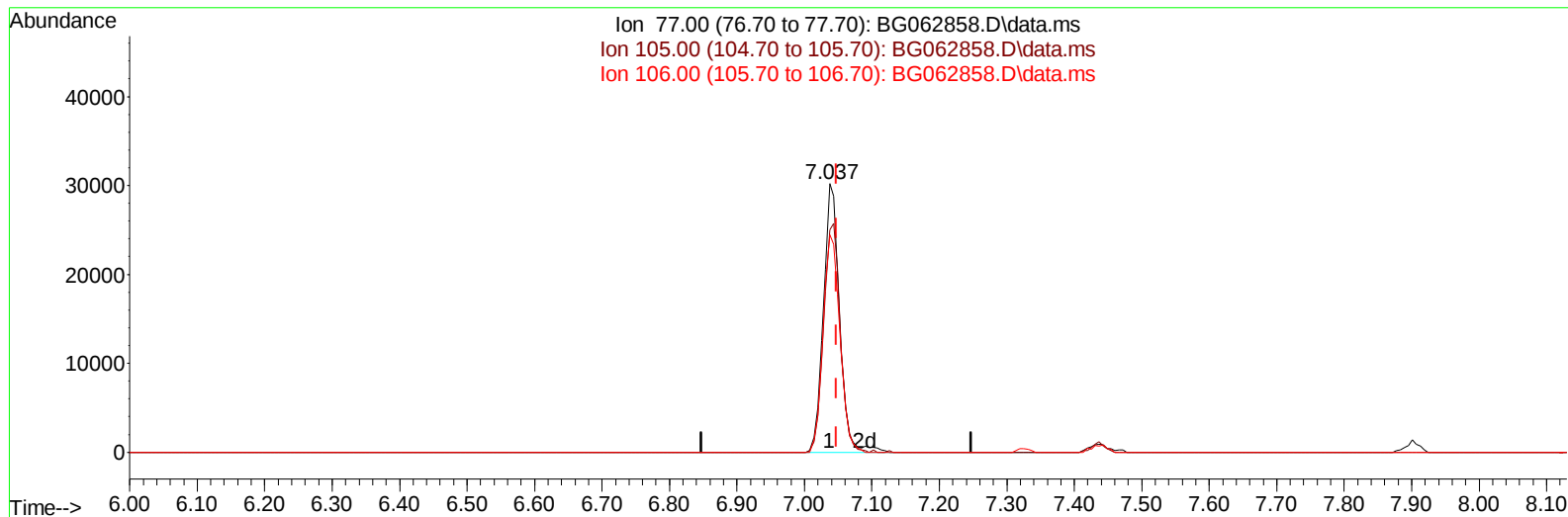
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
Data File : BG062858.D  
Acq On : 15 Sep 2024 23:26  
Operator : JU/RC  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC020

Manual IntegrationsAPPROVED

Quant Time: Sep 16 00:08:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 01:28:17 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024



TIC: BG062858.D\data.ms

(6) Benzaldehyde

7.037min (-0.010) 20.85 ng/ul m

response 50131

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 77.00  | 100.00 | 100.00 |
| 105.00 | 98.70  | 82.83  |
| 106.00 | 86.30  | 80.95  |
| 0.00   | 0.00   | 0.00   |

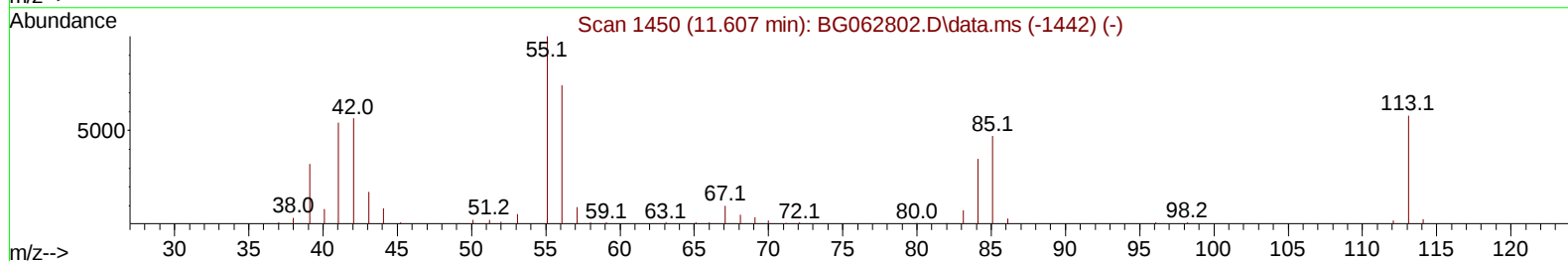
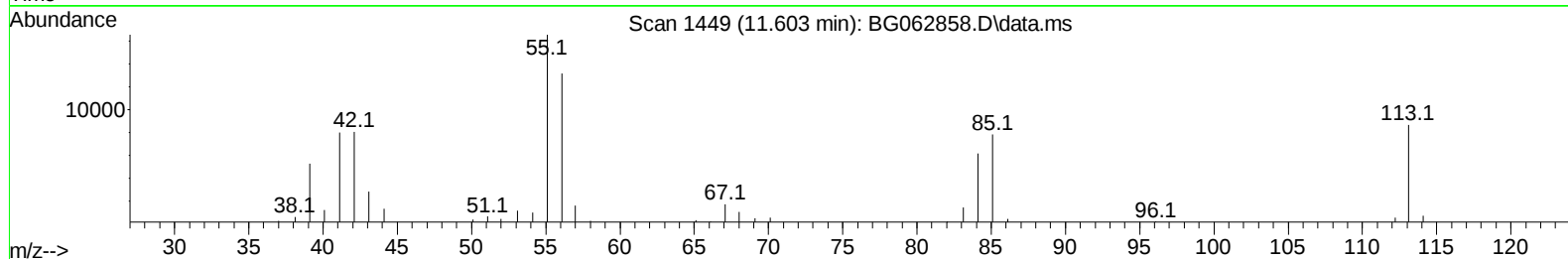
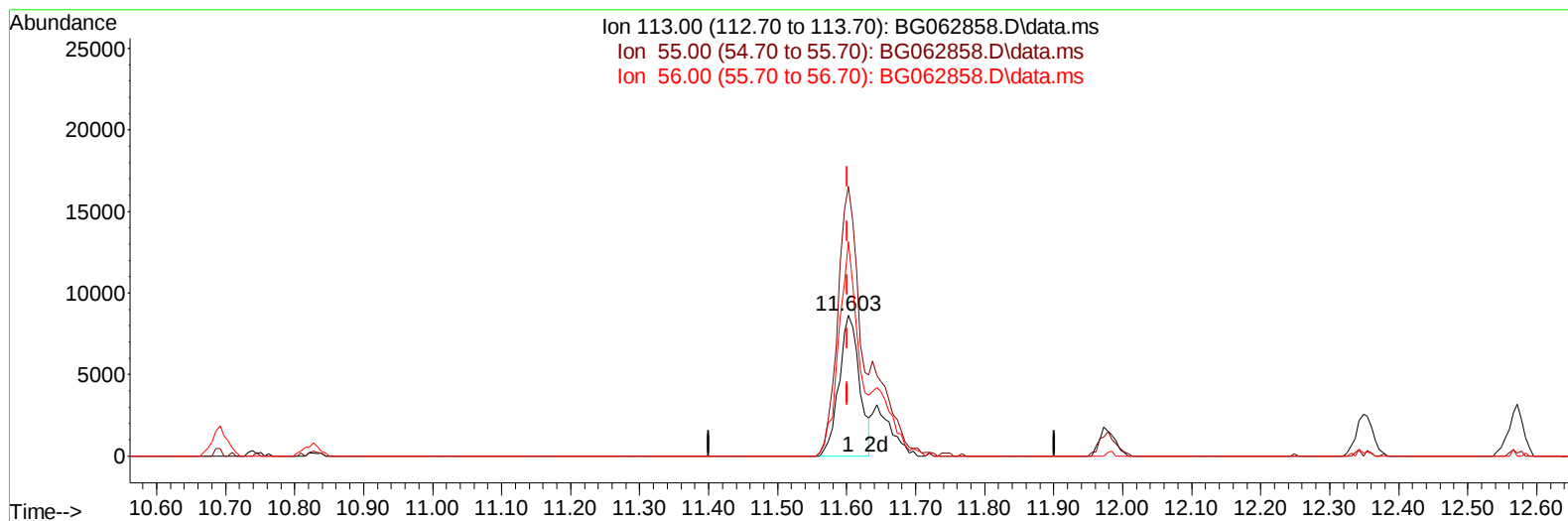
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
Data File : BG062858.D  
Acq On : 15 Sep 2024 23:26  
Operator : JU/RC  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC020

Manual IntegrationsAPPROVED

Quant Time: Sep 16 00:08:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 01:28:17 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024



TIC: BG062858.D\data.ms

(34) Caprolactam

11.603min (+ 0.002) 14.19 ng/ul

response 17764

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 188.50 | 191.41 |
| 56.00  | 156.30 | 152.11 |
| 0.00   | 0.00   | 0.00   |

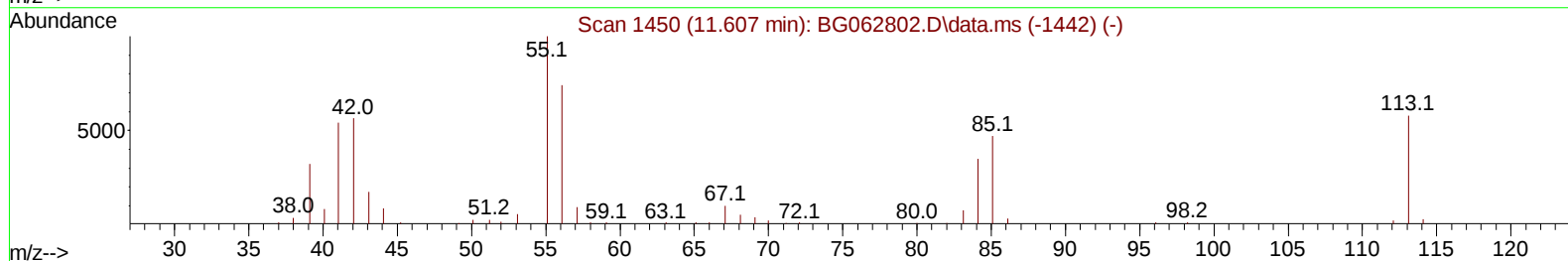
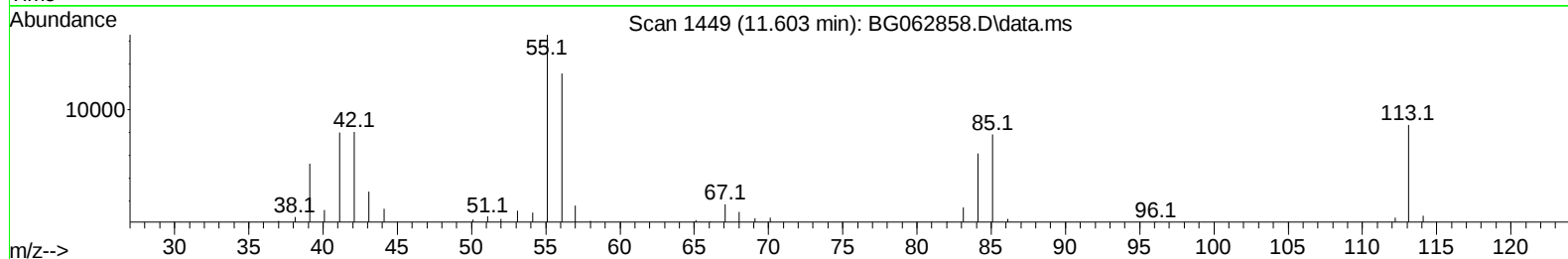
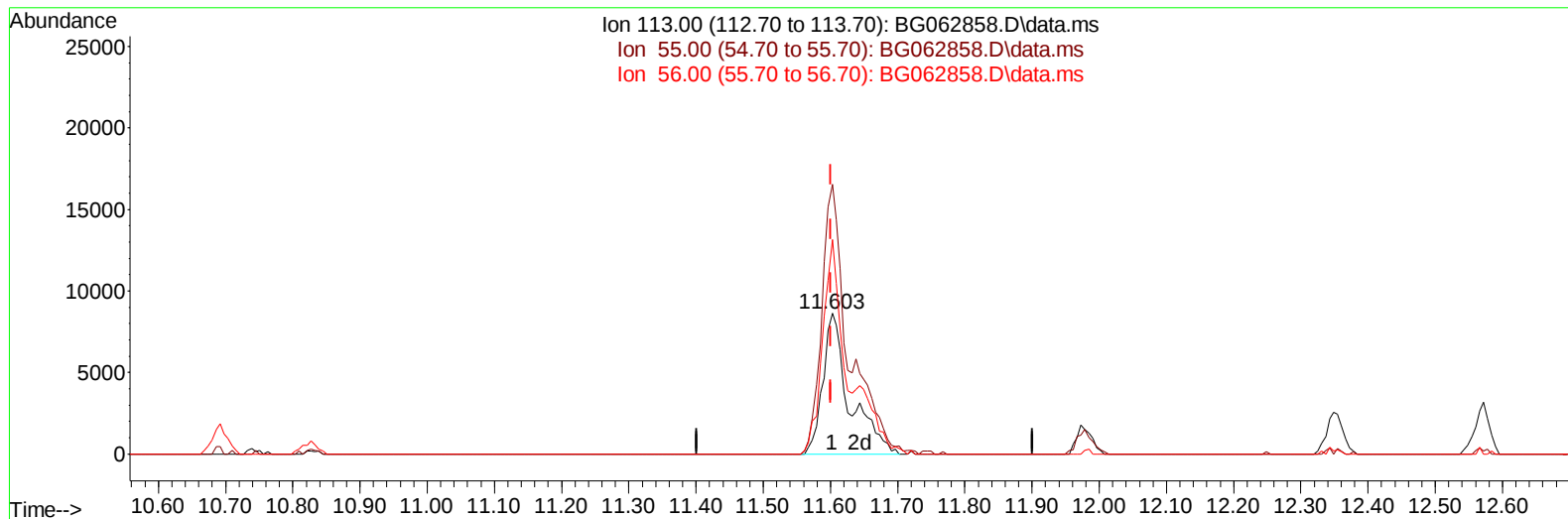
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
Data File : BG062858.D  
Acq On : 15 Sep 2024 23:26  
Operator : JU/RC  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC020

Manual IntegrationsAPPROVED

Quant Time: Sep 16 00:08:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 01:28:17 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024



TIC: BG062858.D\data.ms

(34) Caprolactam

11.603min (+ 0.002) 18.96 ng/ul m

response 23740

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 188.50 | 191.41 |
| 56.00  | 156.30 | 152.11 |
| 0.00   | 0.00   | 0.00   |

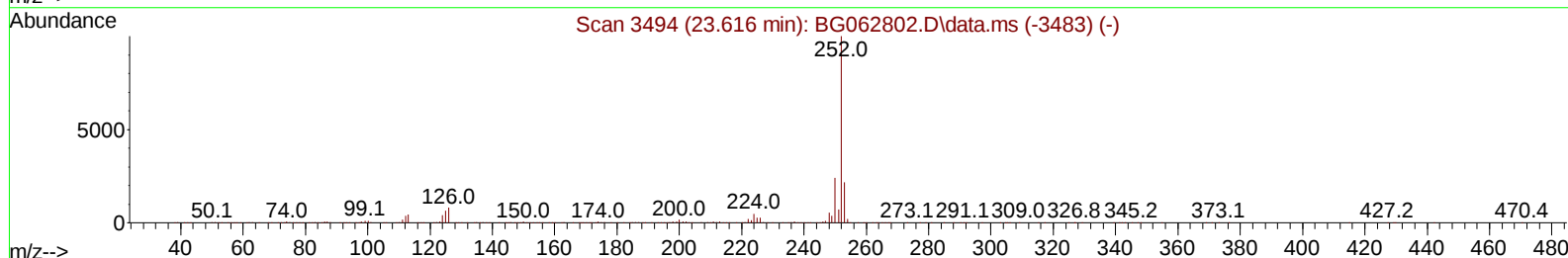
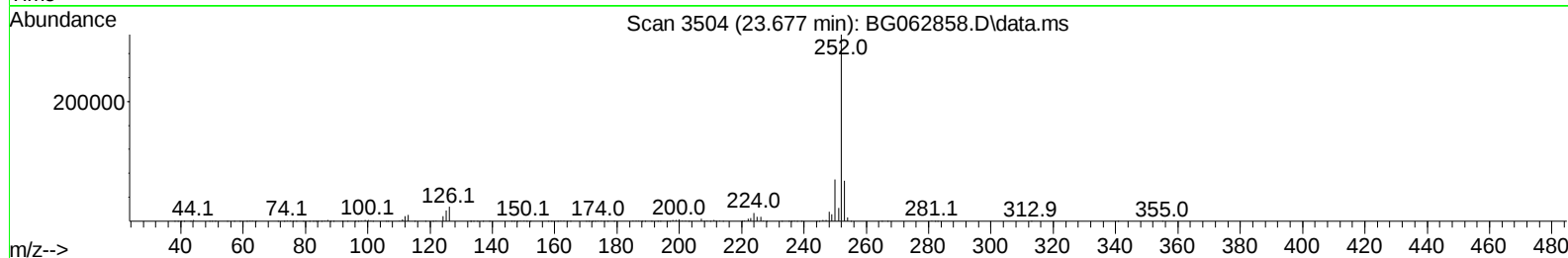
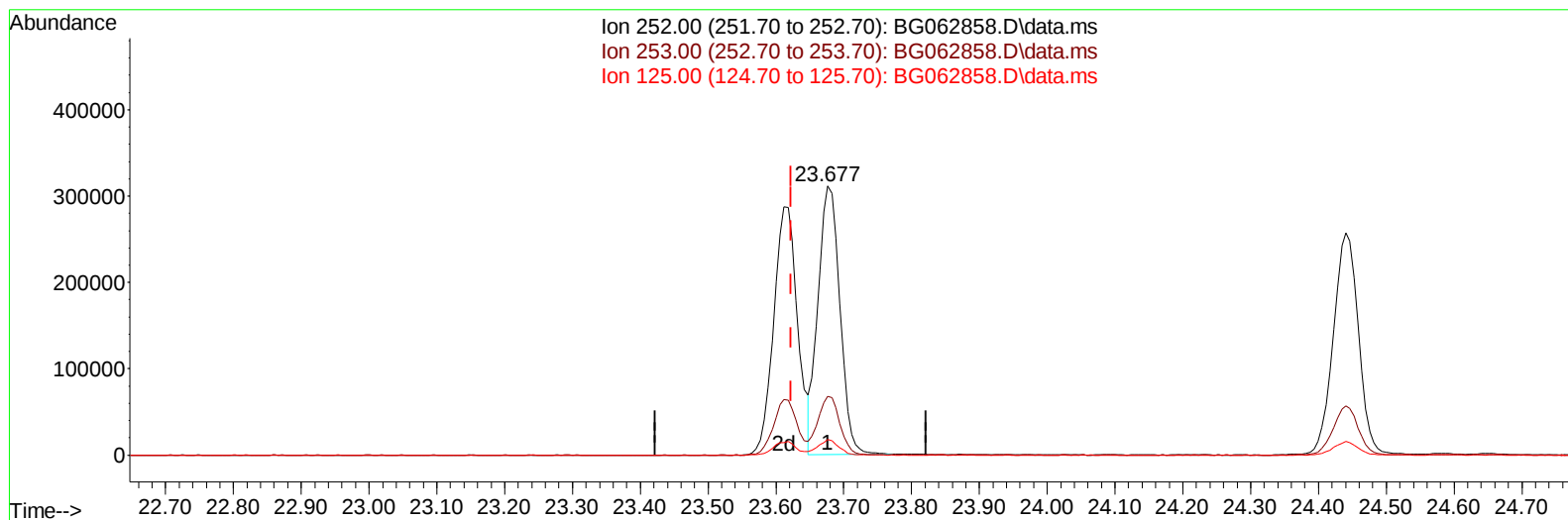
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
Data File : BG062858.D  
Acq On : 15 Sep 2024 23:26  
Operator : JU/RC  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC020

Manual IntegrationsAPPROVED

Quant Time: Sep 16 00:08:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 01:28:17 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024



TIC: BG062858.D\data.ms

**(90) Benzo(b)fluoranthene**

**23.677min (+ 0.055) 19.07 ng/u1**

**response 696752**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 21.30  | 21.77  |
| 125.00 | 6.70   | 5.87   |
| 0.00   | 0.00   | 0.00   |

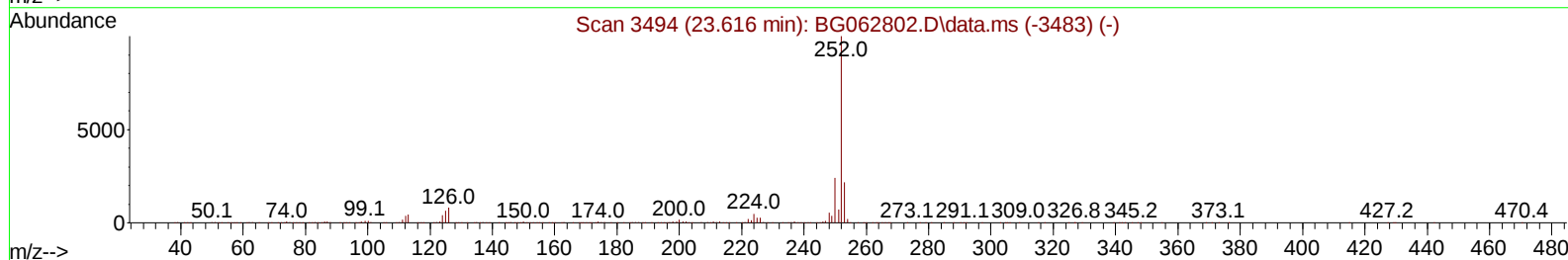
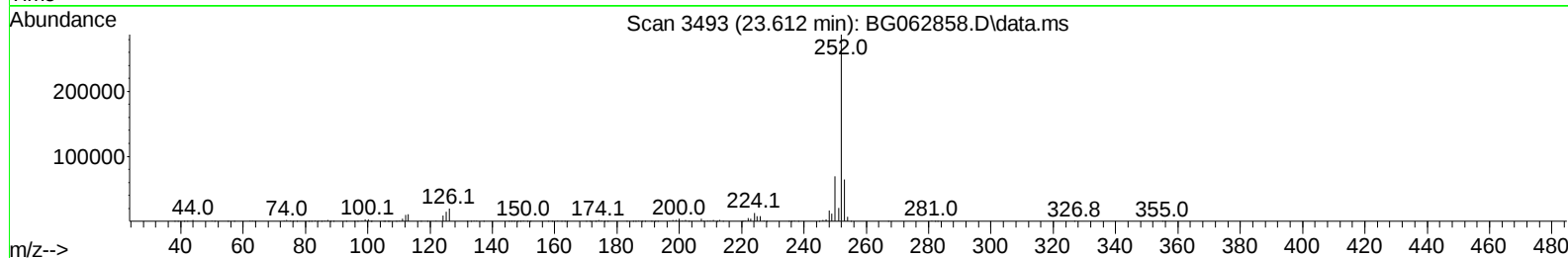
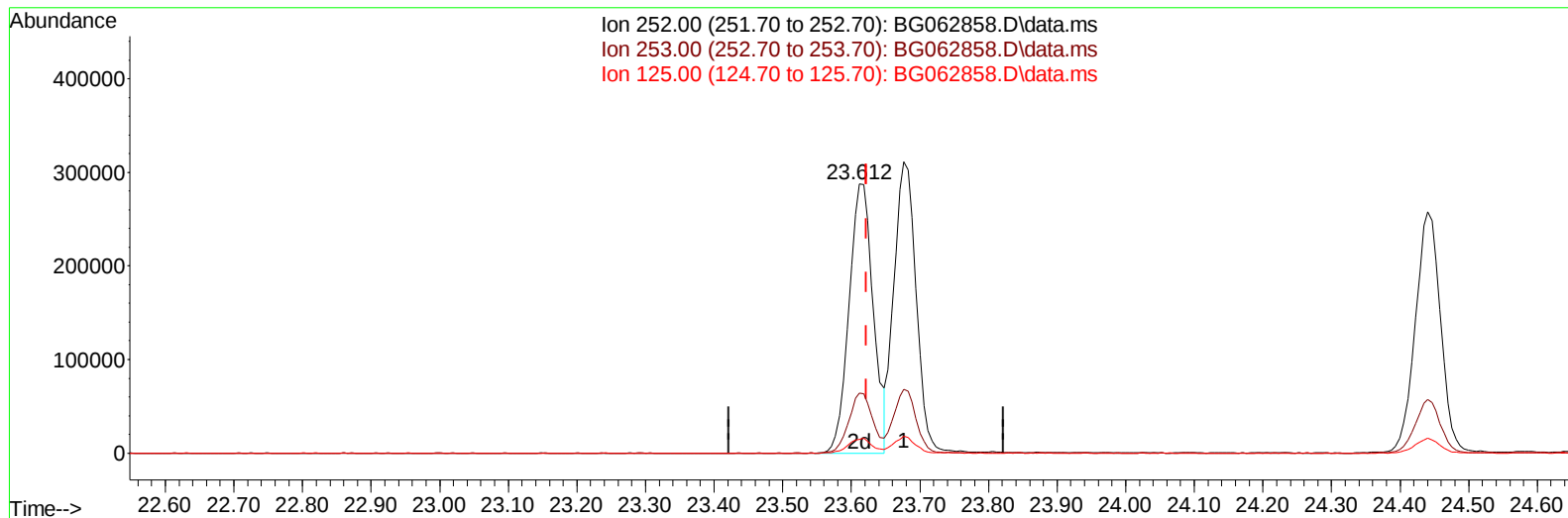
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
Data File : BG062858.D  
Acq On : 15 Sep 2024 23:26  
Operator : JU/RC  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC020

Manual IntegrationsAPPROVED

Quant Time: Sep 16 00:08:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 01:28:17 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024



TIC: BG062858.D\data.ms

(90) Benzo(b)fluoranthene

23.612min (-0.010) 19.31 ng/ul m

response 705541

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 21.30  | 22.33  |
| 125.00 | 6.70   | 5.13#  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
 Data File : BG062858.D  
 Acq On : 15 Sep 2024 23:26  
 Operator : JU/RC  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC020

Manual IntegrationsAPPROVED

Quant Time: Sep 16 00:10:27 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 10 01:28:17 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/16/2024  
 Supervised By :mohammad ahmed 09/17/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.901  | 152  | 49862    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.692 | 136  | 202584   | 20.000 | ng/ul  | # 0.00   |
| 38) Acenaphthene-d10          | 14.529 | 164  | 176775   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.272 | 188  | 479663   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.520 | 240  | 528124   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.581 | 264  | 591717   | 20.000 | ng/ul  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.359  | 96   | 7665     | 6.949  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.765  | 84   | 61275    | 17.451 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.073  | 99   | 75723    | 17.319 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.231  | 67   | 41066    | 15.666 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.437  | 132  | 57036    | 17.909 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.606  | 113  | 68311    | 18.748 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.053  | 128  | 31826    | 21.981 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.775  | 143  | 37130    | 23.448 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.316 | 165  | 77397    | 22.444 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.827 | 131  | 90690    | 19.132 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.935 | 166  | 258684   | 19.003 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.223 | 160  | 288964   | 19.113 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.734 | 143  | 41327    | 17.871 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.521 | 176  | 237399   | 19.353 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.645 | 200  | 58236    | 21.107 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.372 | 188  | 442247   | 19.536 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.664 | 212  | 560507   | 18.860 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.376 | 264  | 606494   | 19.411 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.394  | 88   | 8344     | 6.749  | ng/uL# | 90       |
| 5) Pyridine                   | 3.788  | 79   | 61351    | 16.659 | ng/ul  | 97       |
| 6) Benzaldehyde               | 7.037  | 77   | 50131m   | 20.854 | ng/ul  |          |
| 8) Phenol                     | 7.096  | 94   | 77863    | 17.131 | ng/ul  | 93       |
| 10) Bis(2-Chloroethyl)ether   | 7.325  | 93   | 53308    | 15.515 | ng/ul  | 99       |
| 12) 2-Chlorophenol            | 7.466  | 128  | 60350    | 18.533 | ng/ul  | 98       |
| 13) 2-Methylphenol            | 8.342  | 108  | 62000    | 18.191 | ng/ul  | 100      |
| 14) 2,2'-oxybis(1-Chloropr... | 8.418  | 45   | 95859    | 15.500 | ng/ul# | 93       |
| 16) Acetophenone              | 8.718  | 105  | 108896   | 18.389 | ng/ul  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.706  | 70   | 56303    | 18.162 | ng/ul  | 98       |
| 18) 4-Methylphenol            | 8.671  | 108  | 72747    | 18.972 | ng/ul  | 95       |
| 19) Hexachloroethane          | 8.982  | 117  | 26406    | 20.143 | ng/ul# | 81       |
| 22) Nitrobenzene              | 9.100  | 77   | 82874    | 21.158 | ng/ul  | 95       |
| 23) Isophorone                | 9.617  | 82   | 148885   | 18.592 | ng/ul  | 99       |
| 25) 2-Nitrophenol             | 9.811  | 139  | 37981    | 21.762 | ng/ul# | 93       |
| 26) 2,4-Dimethylphenol        | 9.869  | 107  | 78052    | 20.930 | ng/ul  | 94       |
| 27) Bis(2-Chloroethoxy)met... | 10.098 | 93   | 82724    | 18.484 | ng/ul  | 92       |
| 29) 2,4-Dichlorophenol        | 10.345 | 162  | 75355    | 22.186 | ng/ul  | 96       |
| 30) Naphthalene               | 10.745 | 128  | 211579   | 19.478 | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 10.850 | 127  | 91420    | 19.392 | ng/ul  | 97       |
| 33) Hexachlorobutadiene       | 11.033 | 225  | 70539    | 24.930 | ng/ul  | 91       |
| 34) Caprolactam               | 11.603 | 113  | 23740m   | 18.964 | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 11.979 | 107  | 82258    | 22.201 | ng/ul  | 96       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091324\  
 Data File : BG062858.D  
 Acq On : 15 Sep 2024 23:26  
 Operator : JU/RC  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC020

Manual IntegrationsAPPROVED

Quant Time: Sep 16 00:10:27 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG090924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 10 01:28:17 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/16/2024  
 Supervised By :mohammad ahmed 09/17/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.355 | 142  | 165253   | 20.614 | ng/ul  | 94       |
| 37) 1-Methylnaphthalene       | 12.572 | 142  | 168817   | 20.558 | ng/ul# | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.719 | 216  | 132145   | 21.744 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.701 | 237  | 75913    | 24.412 | ng/ul  | 98       |
| 41) 2,4,6-Trichlorophenol     | 12.960 | 196  | 80840    | 21.961 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 13.036 | 196  | 88105    | 22.292 | ng/ul  | 92       |
| 43) 1,1'-Biphenyl             | 13.359 | 154  | 233345   | 18.771 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.400 | 162  | 195373   | 19.328 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.606 | 65   | 57244    | 20.638 | ng/ul  | 98       |
| 47) Dimethylphthalate         | 13.982 | 163  | 263956   | 18.828 | ng/ul  | 100      |
| 48) 2,6-Dinitrotoluene        | 14.100 | 165  | 53139    | 21.515 | ng/ul  | 98       |
| 50) Acenaphthylene            | 14.252 | 152  | 303105   | 18.990 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.429 | 138  | 50030    | 20.232 | ng/ul# | 98       |
| 52) Acenaphthene              | 14.593 | 153  | 210609   | 18.628 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.640 | 184  | 36197    | 22.194 | ng/ul  | 88       |
| 55) 4-Nitrophenol             | 14.746 | 109  | 46217    | 22.234 | ng/ul  | 85       |
| 56) Dibenzofuran              | 14.928 | 168  | 321285   | 19.129 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.893 | 165  | 82504    | 21.365 | ng/ul# | 94       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.157 | 232  | 89904    | 22.447 | ng/ul  | 95       |
| 59) Diethylphthalate          | 15.351 | 149  | 259700   | 18.778 | ng/ul  | 99       |
| 61) Fluorene                  | 15.580 | 166  | 253812   | 19.237 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.568 | 204  | 163038   | 21.066 | ng/ul  | 100      |
| 63) 4-Nitroaniline            | 15.592 | 138  | 52988    | 19.913 | ng/ul# | 84       |
| 66) 4,6-Dinitro-2-methylph... | 15.657 | 198  | 59589    | 20.835 | ng/ul  | 95       |
| 67) N-Nitrosodiphenylamine    | 15.786 | 169  | 233763   | 19.003 | ng/ul  | 100      |
| 68) 4-Bromophenyl-phenylether | 16.462 | 248  | 117020   | 21.201 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.585 | 284  | 134459   | 21.336 | ng/ul  | 97       |
| 70) Atrazine                  | 16.732 | 200  | 114446   | 20.888 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 16.926 | 266  | 80330    | 21.311 | ng/ul  | 92       |
| 72) Phenanthrene              | 17.319 | 178  | 475860   | 19.077 | ng/ul  | 100      |
| 74) Anthracene                | 17.407 | 178  | 487525   | 19.172 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.330 | 216  | 137687   | 21.020 | ng/ul  | 96       |
| 76) Pentachlorobenzene        | 14.852 | 250  | 154864   | 21.335 | ng/ul  | 98       |
| 77) Carbazole                 | 17.678 | 167  | 400057   | 18.971 | ng/ul  | 97       |
| 78) Di-n-butylphthalate       | 18.236 | 149  | 464772   | 18.636 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.329 | 202  | 613146   | 18.628 | ng/ul  | 97       |
| 82) Pyrene                    | 19.693 | 202  | 640304   | 18.072 | ng/ul# | 95       |
| 83) Butylbenzylphthalate      | 20.586 | 149  | 208102   | 19.785 | ng/ul  | 94       |
| 84) 3,3'-Dichlorobenzidine    | 21.420 | 252  | 245904   | 22.116 | ng/ul  | 99       |
| 85) Benzo(a)anthracene        | 21.503 | 228  | 708290   | 19.283 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.420 | 149  | 296257   | 19.129 | ng/ul  | 98       |
| 87) Chrysene                  | 21.567 | 228  | 669079   | 19.200 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.572 | 149  | 500137   | 18.171 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.612 | 252  | 705541m  | 19.312 | ng/ul  |          |
| 91) Benzo(k)fluoranthene      | 23.677 | 252  | 696752   | 18.626 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 24.440 | 252  | 662673   | 19.231 | ng/ul  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.036 | 276  | 850659   | 20.037 | ng/ul# | 95       |
| 95) Dibenzo(a,h)anthracene    | 28.095 | 278  | 684443   | 20.071 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 29.117 | 276  | 651396   | 19.866 | ng/ul# | 95       |

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

**Instrument :**  
BNA\_G  
**LabSampleId :**  
SSTDCCC020

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024

**Instrument :**  
BNA\_G  
**LabSampleId :**  
SSTDCCC020

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024

Reviewed By :Yogesh Patel 09/16/2024  
Supervised By :mohammad ahmed 09/17/2024

