

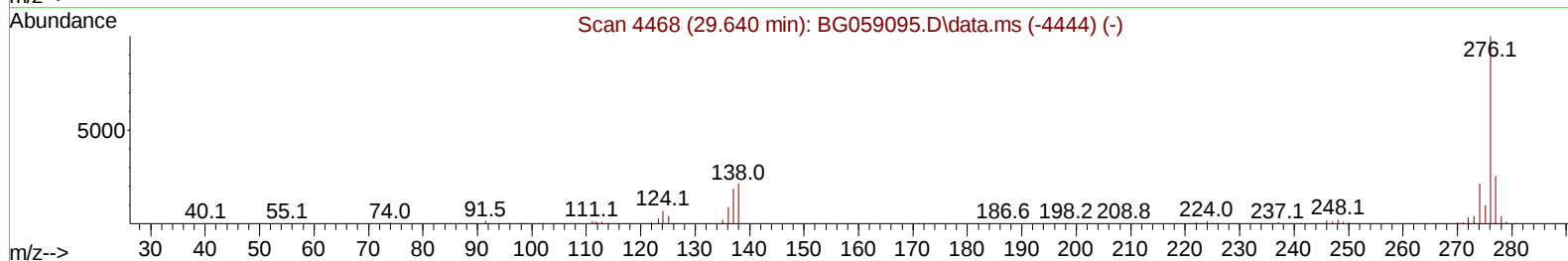
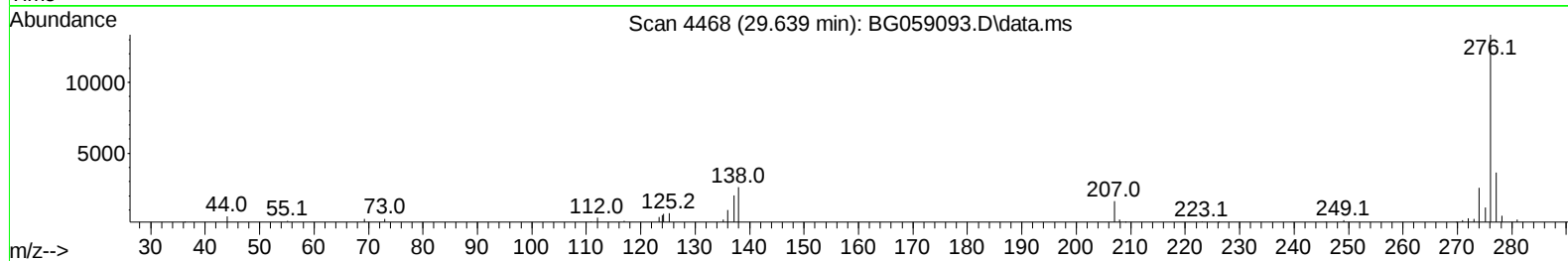
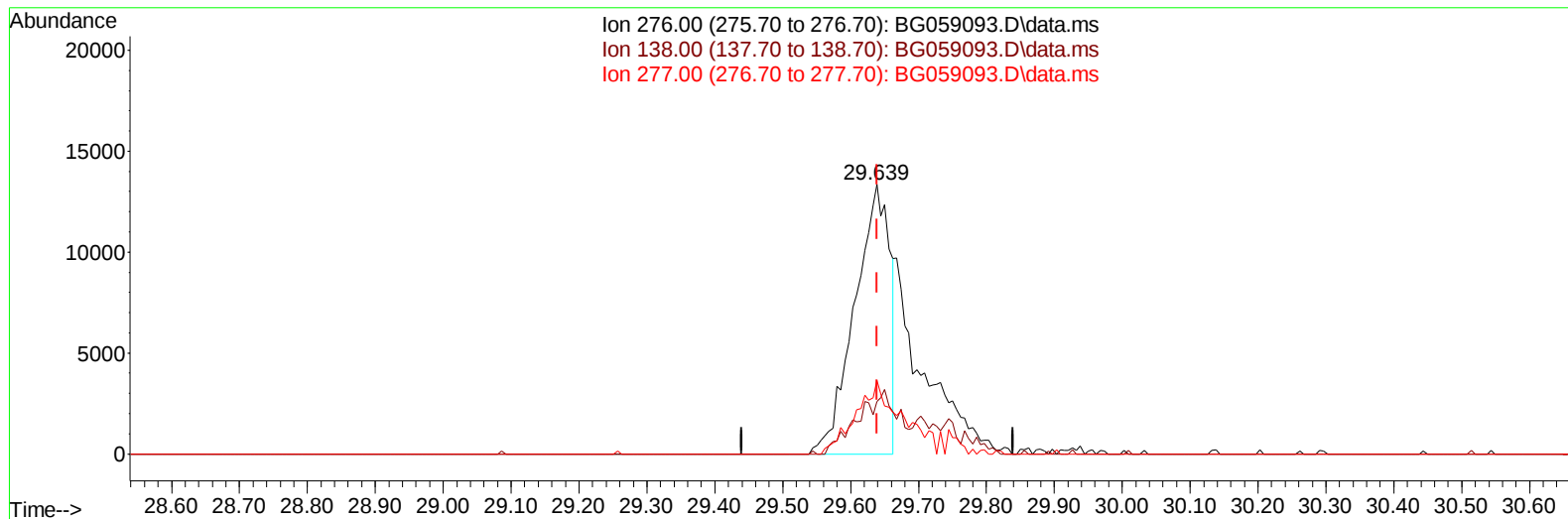
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091923\  
Data File : BG059093.D  
Acq On : 19 Sep 2023 17:40  
Operator : MA/JU  
Sample : SST00525  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD005428

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2023  
Supervised By :mohammad ahmed 09/21/2023

Quant Time: Sep 20 03:56:36 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG091923.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Sep 20 03:48:48 2023  
Response via : Initial Calibration



TIC: BG059093.D\data.ms

## (94) Indeno(1,2,3-cd)pyrene

29.639min (-0.001) 2.97 ng/u1

response 47981

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 21.40  | 19.56  |
| 277.00 | 25.50  | 27.24  |
| 0.00   | 0.00   | 0.00   |

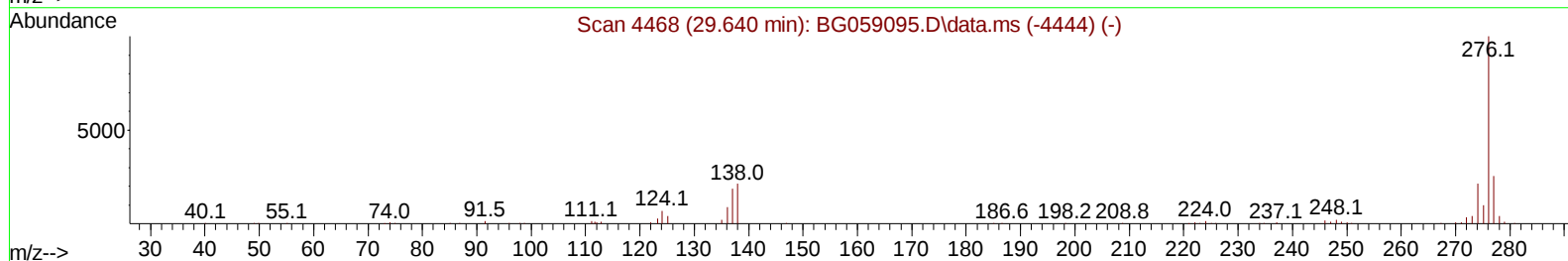
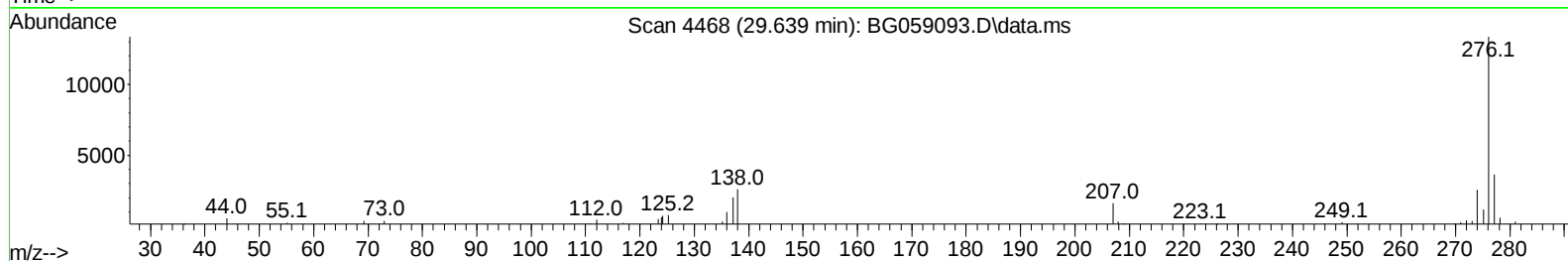
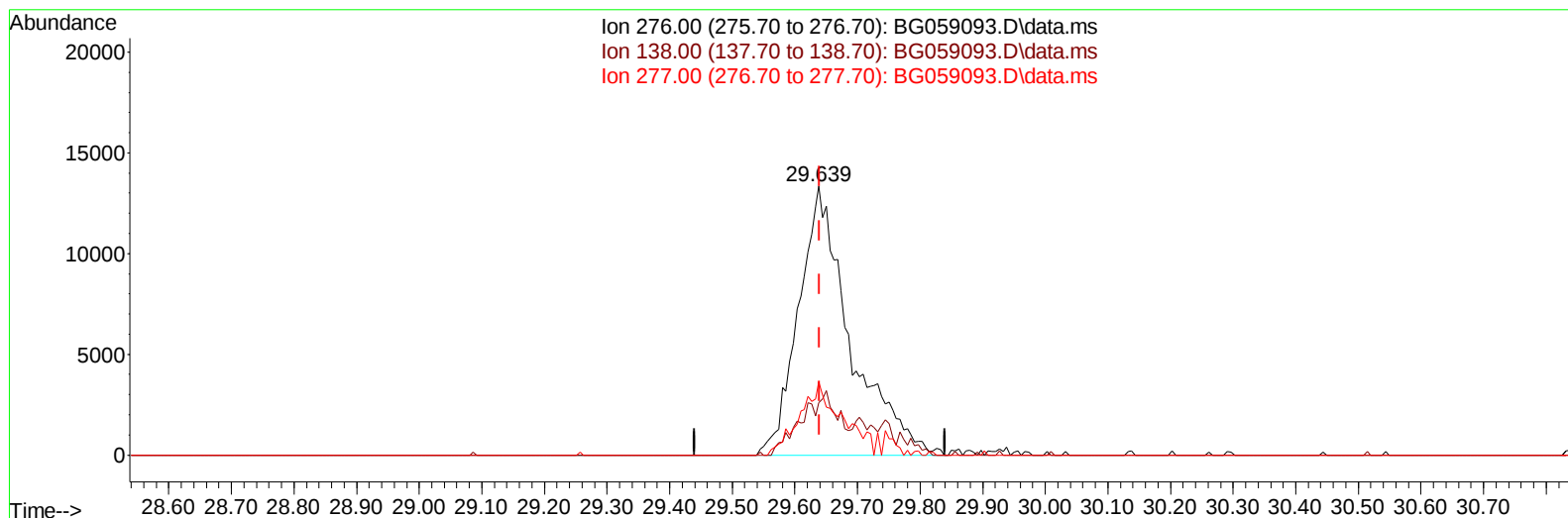
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Instrument :  
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 ClientSampleId :  
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Manual IntegrationsAPPROVED

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 20 03:48:48 2023  
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TIC: BG059093.D\data.ms

**(94) Indeno(1,2,3-cd)pyrene**

29.639min (-0.001) 4.73 ng/ul m

response 76491

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 21.40  | 19.56  |
| 277.00 | 25.50  | 27.24  |
| 0.00   | 0.00   | 0.00   |

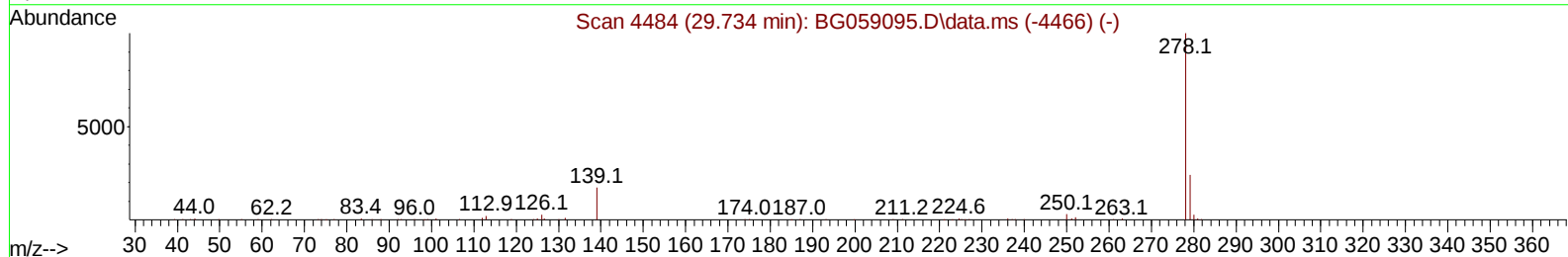
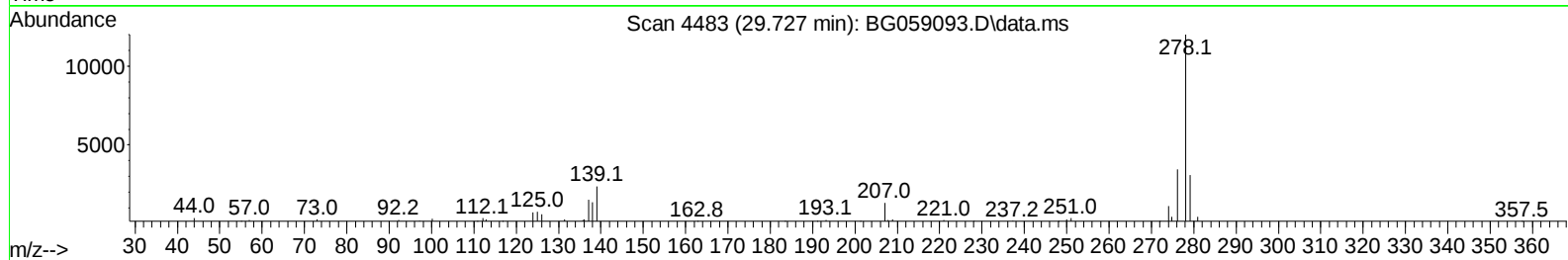
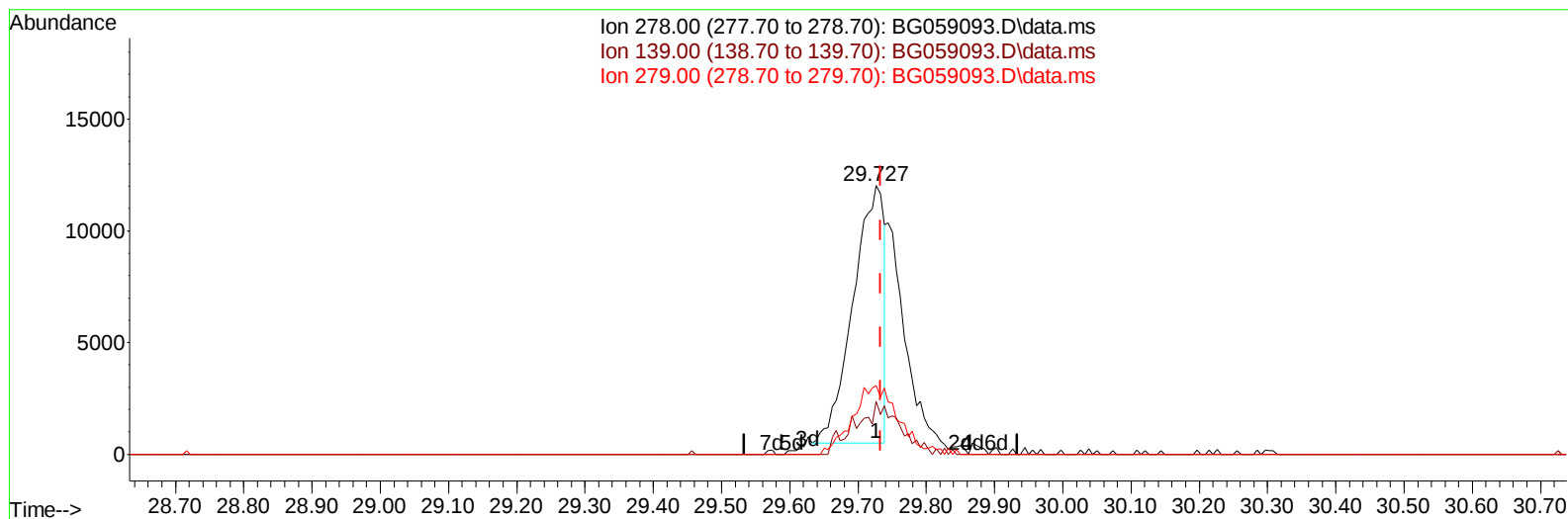
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091923\  
 Data File : BG059093.D  
 Acq On : 19 Sep 2023 17:40  
 Operator : MA/JU  
 Sample : SST00525  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SST005428

Manual IntegrationsAPPROVED

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TIC: BG059093.D\data.ms

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

29.727min (-0.007) 2.79 ng/u1

response 35950

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 17.20  | 19.67  |
| 279.00 | 23.70  | 25.64  |
| 0.00   | 0.00   | 0.00   |

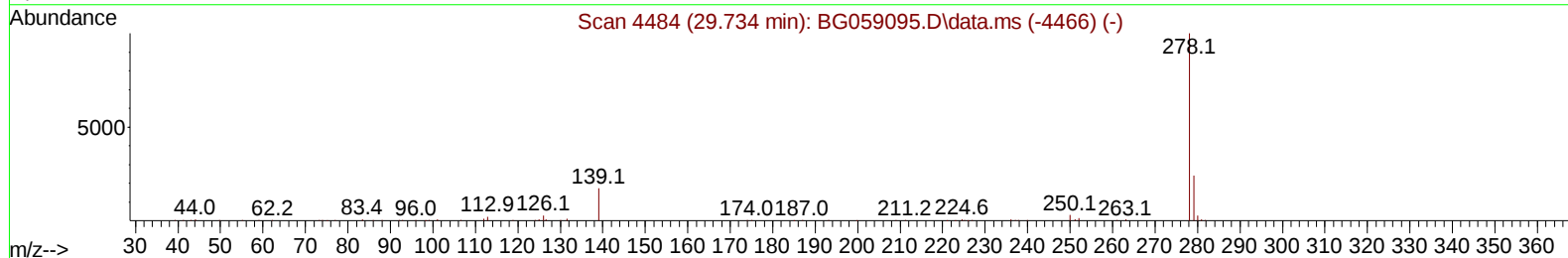
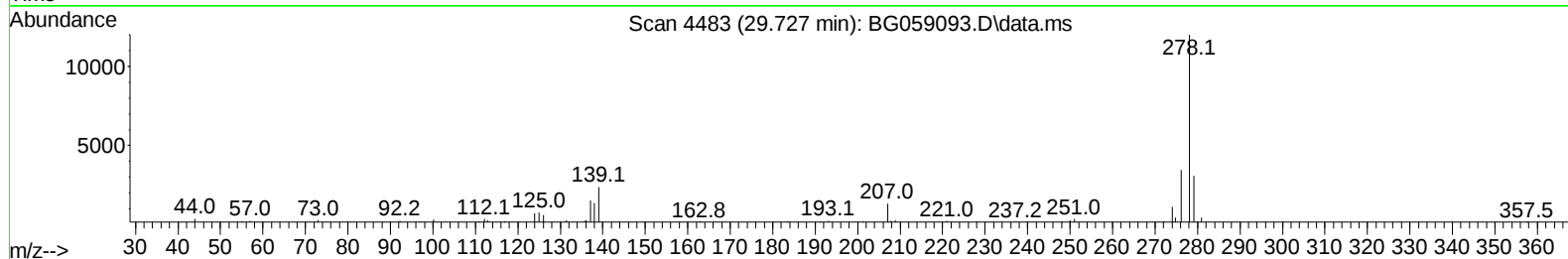
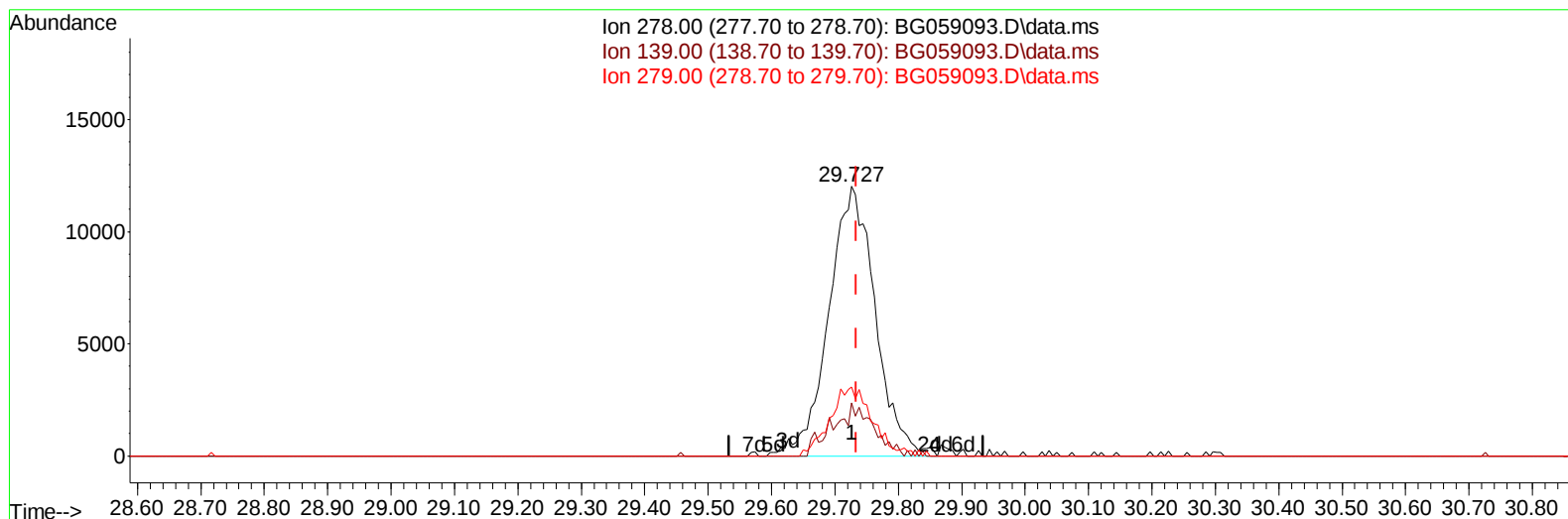
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091923\  
 Data File : BG059093.D  
 Acq On : 19 Sep 2023 17:40  
 Operator : MA/JU  
 Sample : SST00525  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SST005428

Manual IntegrationsAPPROVED

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TIC: BG059093.D\data.ms

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

29.727min (-0.007) 4.76 ng/ul m

response 61359

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 17.20  | 19.67  |
| 279.00 | 23.70  | 25.64  |
| 0.00   | 0.00   | 0.00   |

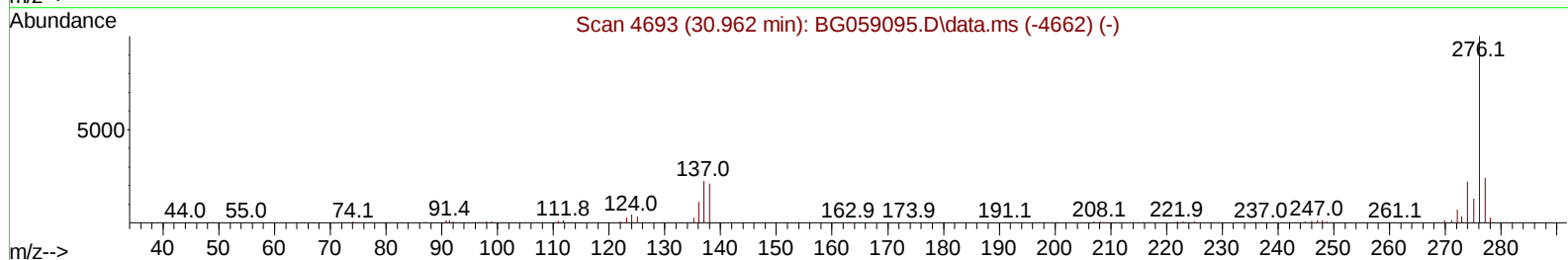
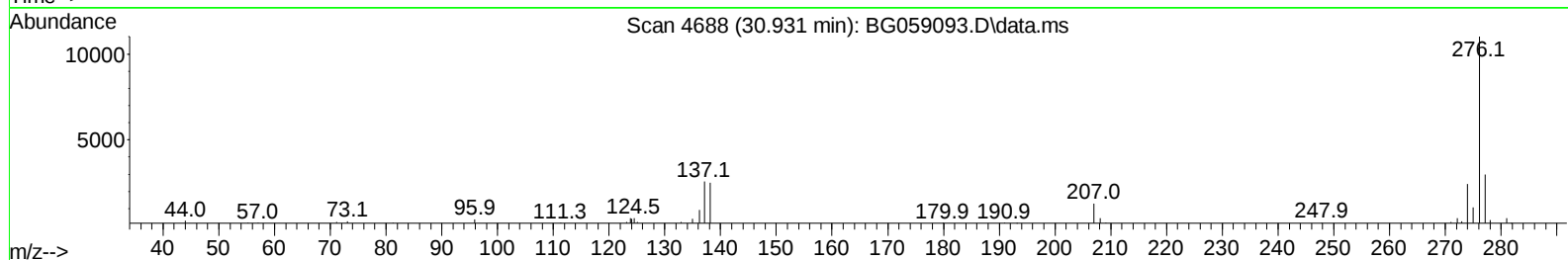
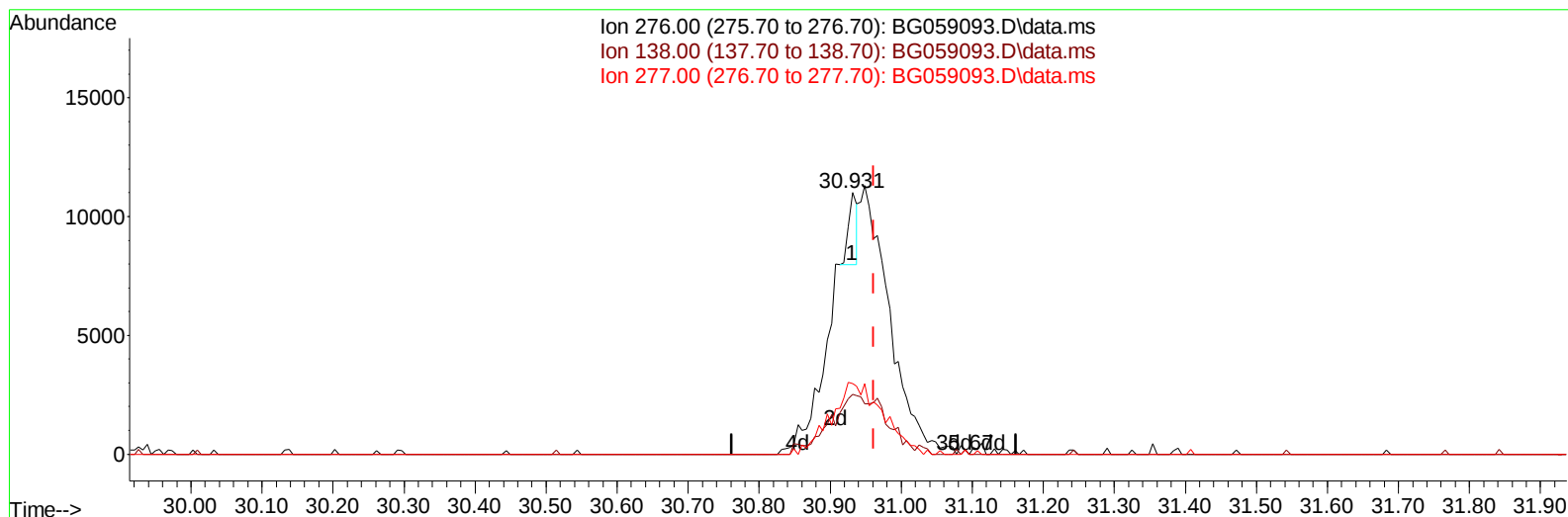
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091923\  
 Data File : BG059093.D  
 Acq On : 19 Sep 2023 17:40  
 Operator : MA/JU  
 Sample : SSTD00525  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD005428

Manual IntegrationsAPPROVED

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TIC: BG059093.D\data.ms

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

30.931min (-0.030) 0.19 ng/u1

response 2566

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 21.10  | 22.78  |
| 277.00 | 24.10  | 26.99  |
| 0.00   | 0.00   | 0.00   |

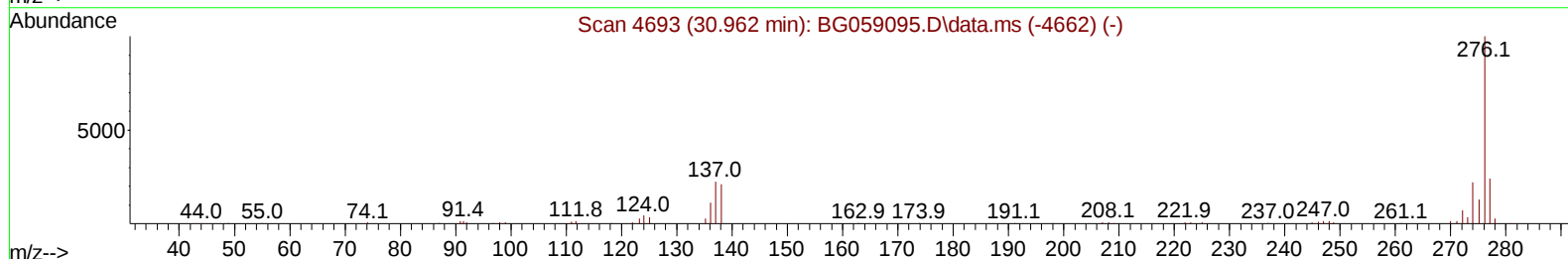
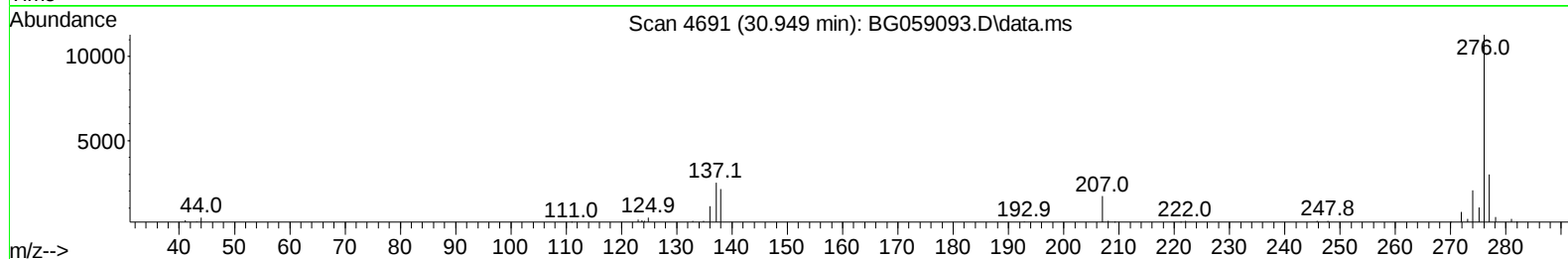
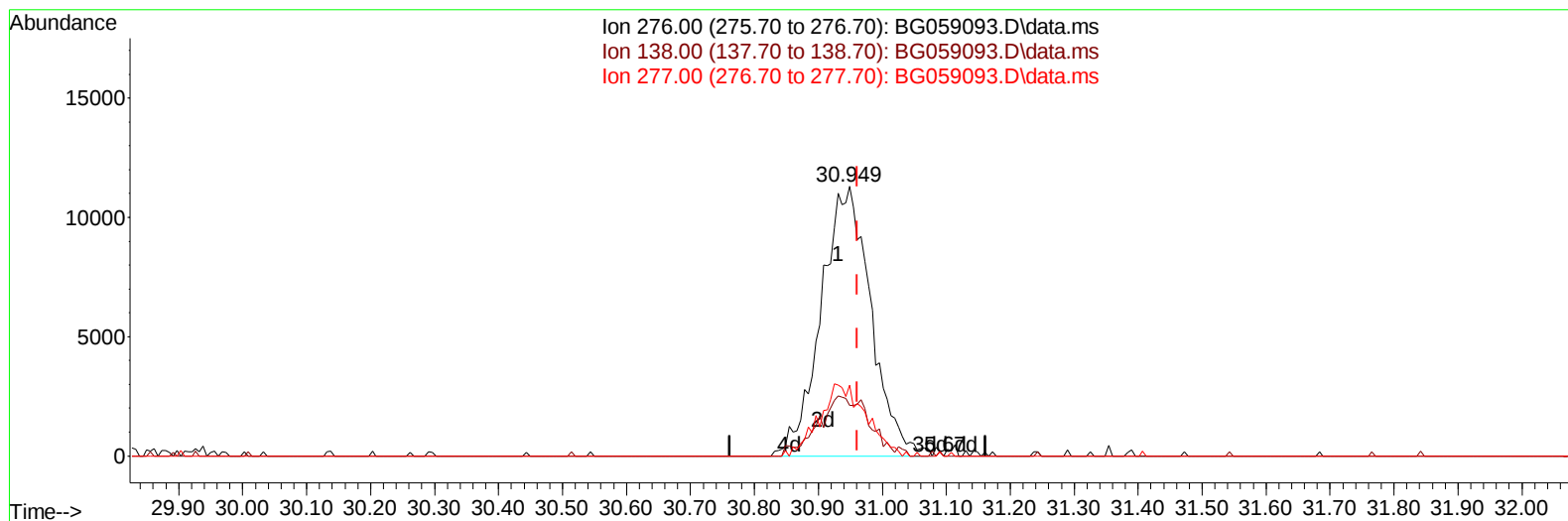
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091923\  
 Data File : BG059093.D  
 Acq On : 19 Sep 2023 17:40  
 Operator : MA/JU  
 Sample : SSTD00525  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD005428

Manual IntegrationsAPPROVED

Quant Time: Sep 20 03:56:36 2023  
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Reviewed By :Yogesh Patel 09/20/2023  
 Supervised By :mohammad ahmed 09/21/2023



TIC: BG059093.D\data.ms

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

30.949min (-0.013) 4.63 ng/ul m

response 61046

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 21.10  | 18.73  |
| 277.00 | 24.10  | 26.29  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091923\  
 Data File : BG059093.D  
 Acq On : 19 Sep 2023 17:40  
 Operator : MA/JU  
 Sample : SST00525  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SST005428

Manual IntegrationsAPPROVED

Quant Time: Sep 20 04:04:00 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG091923.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 20 03:48:48 2023  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 09/20/2023  
 Supervised By :mohammad ahmed 09/21/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.299  | 152  | 30000    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 11.143 | 136  | 146198   | 20.000 | ng/ul  | # 0.00   |
| 38) Acenaphthene-d10          | 14.926 | 164  | 93737    | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.676 | 188  | 228372   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.995 | 240  | 206221   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 25.549 | 264  | 242656   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.616  | 96   | 1575     | 2.289  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/ul  |          |
| 7) Phenol-d5                  | 0.000  | 99   | 0d       | 0.000  | ng/ul  |          |
| 9) Bis-(2-Chloroethyl)eth...  | 0.000  | 67   | 0d       | 0.000  | ng/ul  |          |
| 11) 2-Chlorophenol-d4         | 7.811  | 132  | 9889     | 4.451  | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 0.000  | 113  | 0d       | 0.000  | ng/ul  |          |
| 21) Nitrobenzene-d5           | 9.492  | 128  | 4868     | 4.096  | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.214 | 143  | 4816     | 4.115  | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.731 | 165  | 9712     | 4.280  | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 0.000  | 131  | 0d       | 0.000  | ng/ul  |          |
| 46) Dimethylphthalate-d6      | 14.321 | 166  | 35172    | 4.864  | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.627 | 160  | 41254    | 5.163  | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 0.000  | 143  | 0d       | 0.000  | ng/ul  |          |
| 60) Fluorene-d10              | 15.914 | 176  | 31419    | 4.985  | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d       | 0.000  | ng/ul  |          |
| 73) Anthracene-d10            | 17.776 | 188  | 48233    | 4.640  | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 20.050 | 212  | 59306    | 5.023  | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.297 | 264  | 54131    | 4.520  | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.646  | 88   | 2022     | 2.122  | ng/uL  | 97       |
| 12) 2-Chlorophenol            | 7.846  | 128  | 9909     | 4.328  | ng/ul# | 89       |
| 17) N-Nitroso-di-n-propyla... | 9.098  | 70   | 8596     | 4.182  | ng/ul# | 94       |
| 19) Hexachloroethane          | 9.374  | 117  | 4040     | 4.389  | ng/ul# | 77       |
| 22) Nitrobenzene              | 9.533  | 77   | 11751    | 4.095  | ng/ul# | 86       |
| 23) Isophorone                | 10.044 | 82   | 25974    | 4.491  | ng/ul# | 96       |
| 25) 2-Nitrophenol             | 10.244 | 139  | 6047     | 4.623  | ng/ul# | 86       |
| 26) 2,4-Dimethylphenol        | 10.267 | 107  | 11317    | 4.382  | ng/ul  | 92       |
| 27) Bis(2-Chloroethoxy)met... | 10.526 | 93   | 16285    | 4.822  | ng/ul  | 95       |
| 29) 2,4-Dichlorophenol        | 10.761 | 162  | 9962     | 4.353  | ng/ul# | 79       |
| 30) Naphthalene               | 11.190 | 128  | 36607    | 4.638  | ng/ul  | 98       |
| 33) Hexachlorobutadiene       | 11.425 | 225  | 6261     | 4.652  | ng/ul# | 79       |
| 35) 4-Chloro-3-methylphenol   | 12.376 | 107  | 10848    | 4.072  | ng/ul  | 91       |
| 36) 2-Methylnaphthalene       | 12.770 | 142  | 25371    | 4.747  | ng/ul  | 98       |
| 37) 1-Methylnaphthalene       | 12.993 | 142  | 24823    | 4.548  | ng/ul# | 93       |
| 39) 1,2,4,5-Tetrachloroben... | 13.117 | 216  | 12594    | 4.990  | ng/ul  | 97       |
| 41) 2,4,6-Trichlorophenol     | 13.352 | 196  | 7920     | 4.356  | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 13.422 | 196  | 8538     | 4.322  | ng/ul  | 95       |
| 43) 1,1'-Biphenyl             | 13.763 | 154  | 35287    | 5.128  | ng/ul# | 96       |
| 44) 2-Chloronaphthalene       | 13.816 | 162  | 26418    | 4.703  | ng/ul  | 94       |
| 45) 2-Nitroaniline            | 14.033 | 65   | 8350     | 4.312  | ng/ul  | 88       |
| 47) Dimethylphthalate         | 14.368 | 163  | 36166    | 4.925  | ng/ul  | 97       |
| 48) 2,6-Dinitrotoluene        | 14.503 | 165  | 5291     | 3.641  | ng/ul# | 81       |

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Instrument :  
 BNA\_G  
 ClientSampleId :  
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## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/20/2023  
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Quant Time: Sep 20 04:04:00 2023  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 50) Acenaphthylene            | 14.662 | 152  | 45663    | 4.919 | ng/ul  | 94       |
| 52) Acenaphthene              | 14.991 | 153  | 30574    | 5.026 | ng/ul  | 95       |
| 56) Dibenzofuran              | 15.320 | 168  | 40831    | 4.741 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 15.285 | 165  | 8607     | 4.129 | ng/ul# | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.532 | 232  | 8462     | 4.798 | ng/ul# | 85       |
| 59) Diethylphthalate          | 15.708 | 149  | 36175    | 4.850 | ng/ul  | 96       |
| 61) Fluorene                  | 15.966 | 166  | 34002    | 4.615 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.955 | 204  | 17354    | 5.092 | ng/ul  | 98       |
| 67) N-Nitrosodiphenylamine    | 16.172 | 169  | 28596    | 4.332 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.854 | 248  | 10328    | 4.571 | ng/ul  | 91       |
| 69) Hexachlorobenzene         | 16.942 | 284  | 12159    | 4.772 | ng/ul  | 95       |
| 72) Phenanthrene              | 17.717 | 178  | 62421    | 4.903 | ng/ul  | 99       |
| 74) Anthracene                | 17.811 | 178  | 61958    | 4.699 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.722 | 216  | 13192    | 4.713 | ng/uL  | 97       |
| 76) Pentachlorobenzene        | 15.214 | 250  | 12548    | 4.676 | ng/uL  | 97       |
| 78) Di-n-butylphthalate       | 18.593 | 149  | 63303    | 4.169 | ng/ul  | 97       |
| 80) Fluoranthene              | 19.709 | 202  | 75601    | 5.103 | ng/ul  | 98       |
| 82) Pyrene                    | 20.079 | 202  | 78737    | 5.089 | ng/ul  | 97       |
| 83) Butylbenzylphthalate      | 20.937 | 149  | 27502    | 4.454 | ng/ul  | 94       |
| 85) Benzo(a)anthracene        | 21.977 | 228  | 72750    | 4.893 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.812 | 149  | 39504    | 4.209 | ng/ul# | 96       |
| 87) Chrysene                  | 22.047 | 228  | 68227    | 4.951 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.392 | 252  | 68012    | 4.471 | ng/ul  | 95       |
| 91) Benzo(k)fluoranthene      | 24.468 | 252  | 72571    | 4.774 | ng/ul  | 96       |
| 93) Benzo(a)pyrene            | 25.373 | 252  | 66288    | 4.607 | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.639 | 276  | 76491m   | 4.731 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.727 | 278  | 61359m   | 4.756 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 30.949 | 276  | 61046m   | 4.633 | ng/ul  |          |

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

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