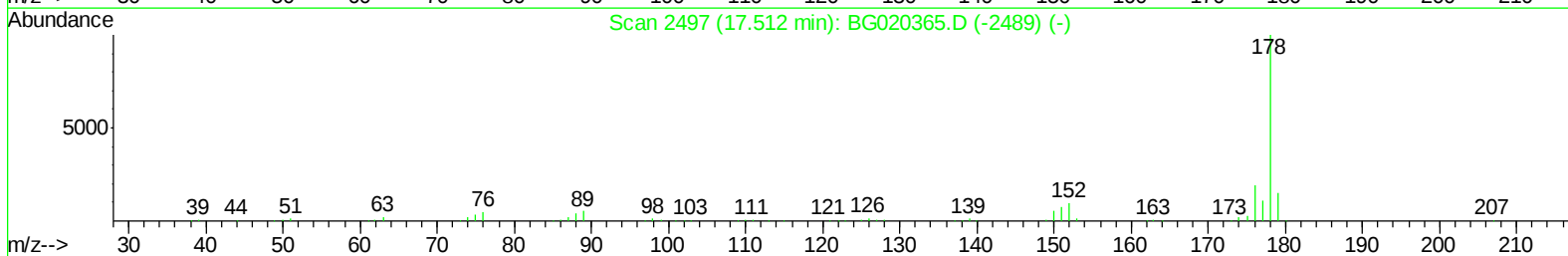
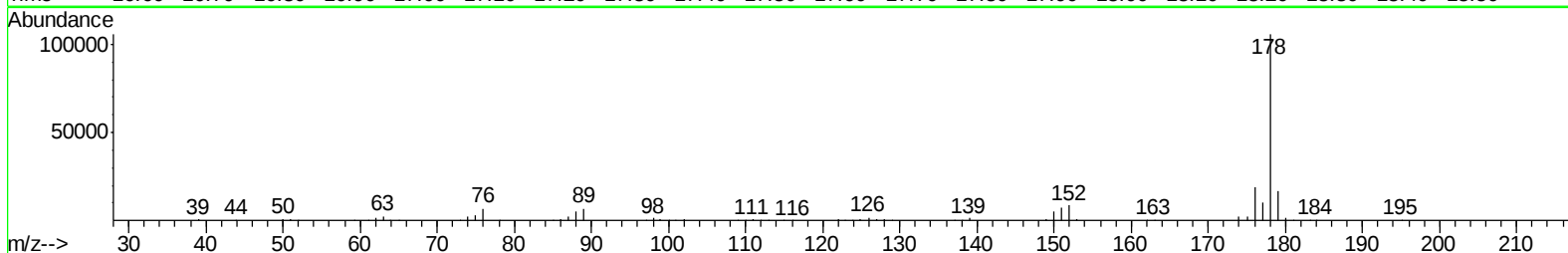
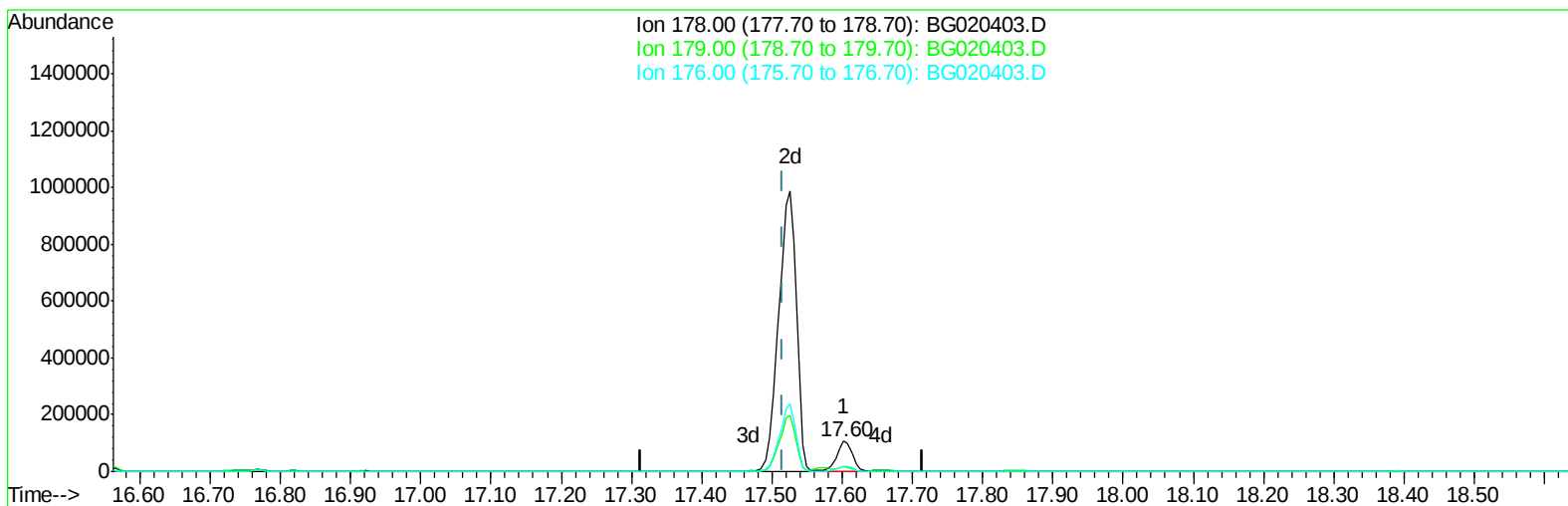


Data Path : Z:\HPCHEM1\BNA\_G\Data\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 22 13:48:30 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 22 05:02:37 2015  
Response via : Initial Calibration



TIC: BG020403.D

(70) Phenanthrene

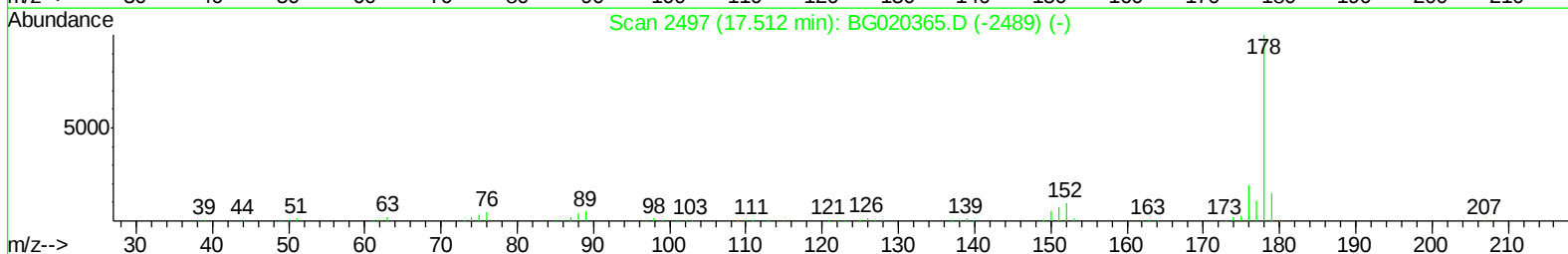
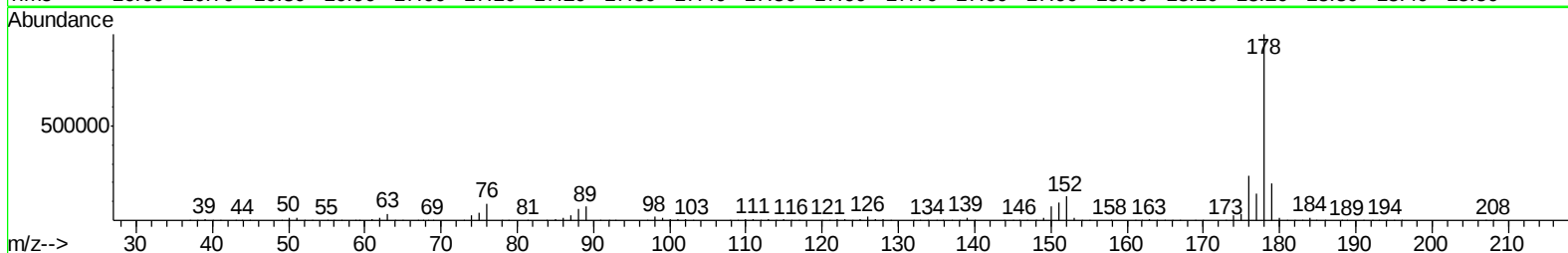
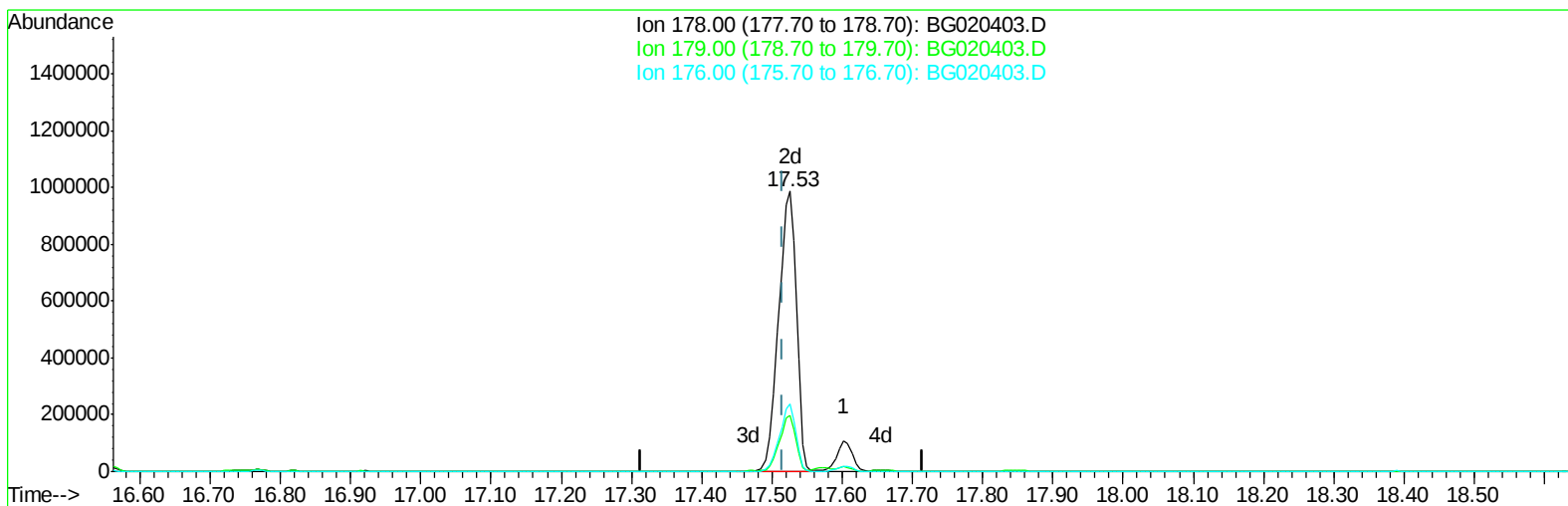
17.602min (+0.087) 24.05ng/ul

response 162815

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 16.10 | 16.21 |
| 176.00 | 19.10 | 18.02 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 22 13:48:30 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 22 05:02:37 2015  
Response via : Initial Calibration



TIC: BG020403.D

(70) Phenanthrene

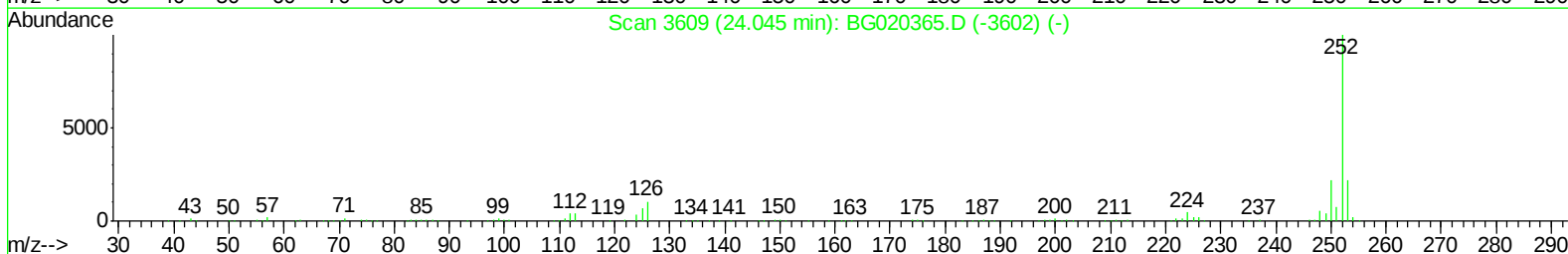
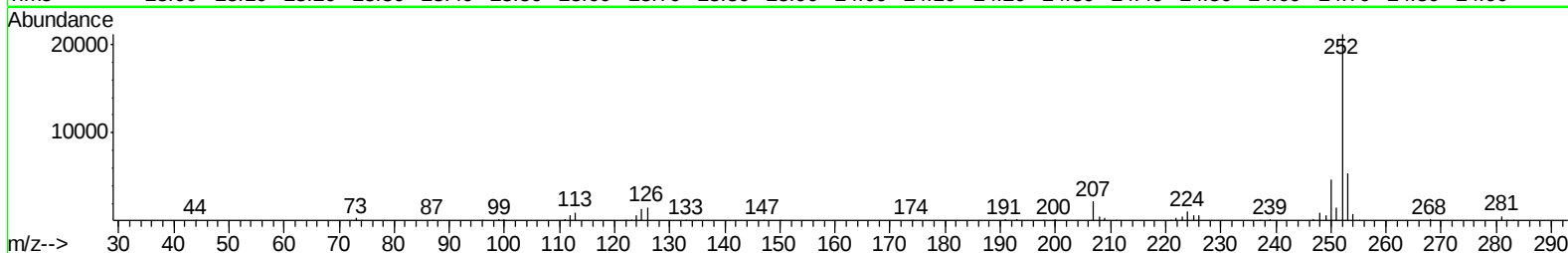
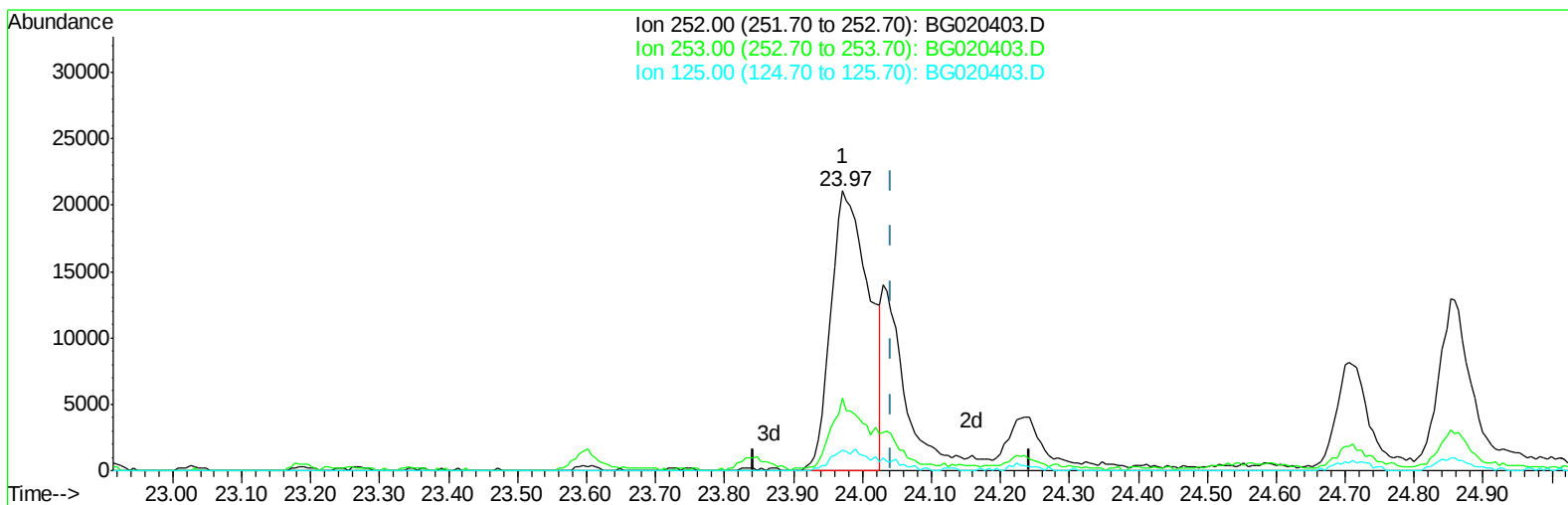
17.526min (+0.011) 256.61ng/ul m

response 1737014

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 16.10 | 19.95# |
| 176.00 | 19.10 | 24.06# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 22 13:48:30 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 22 05:02:37 2015  
Response via : Initial Calibration



TIC: BG020403.D

(89) Benzo(k)fluoranthene

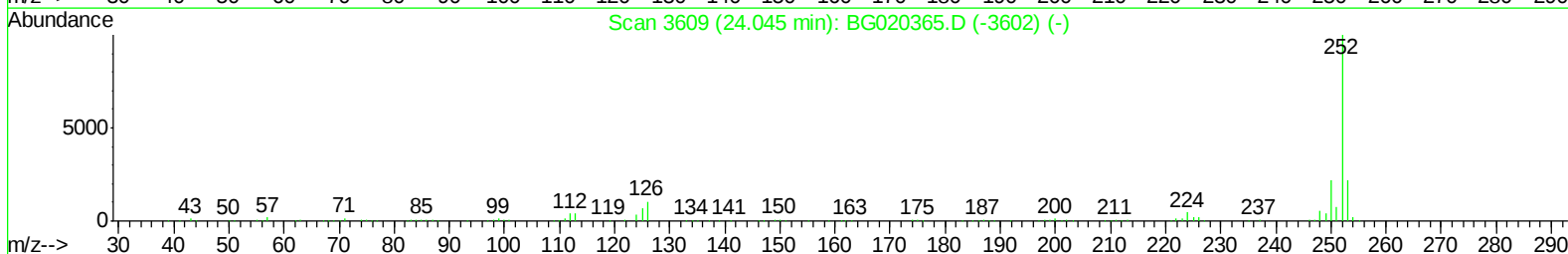
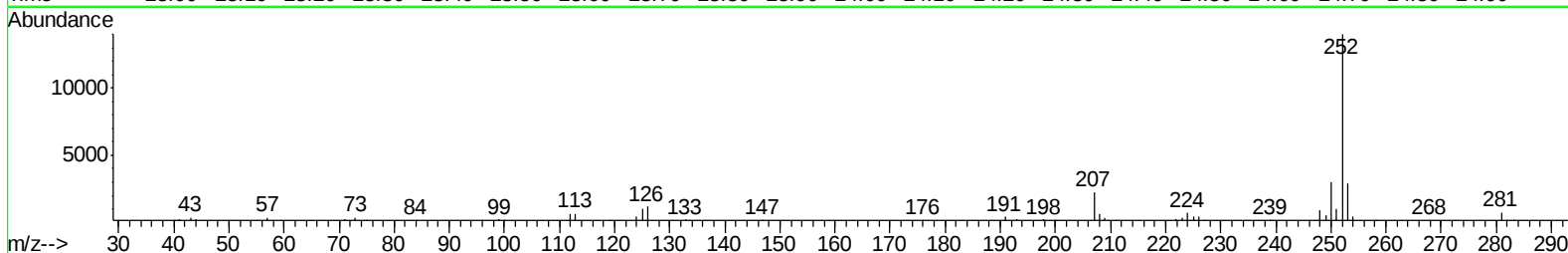
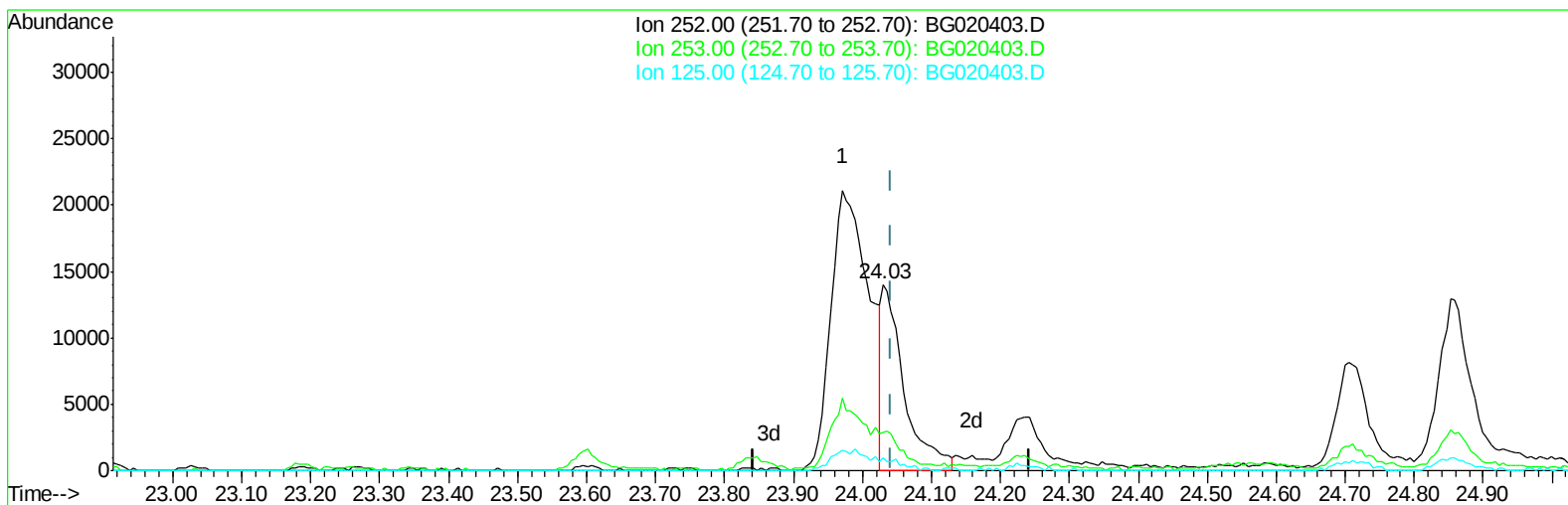
23.971min (-0.072) 10.58ng/ul

response 80322

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.40 | 26.00 |
| 125.00 | 7.20  | 7.16  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 22 13:48:30 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 22 05:02:37 2015  
Response via : Initial Calibration



TIC: BG020403.D

(89) Benzo(k)fluoranthene

24.030min (-0.013) 4.16ng/ul m

response 31625

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.40 | 20.73 |
| 125.00 | 7.20  | 7.07  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG122115\  
 Data File : BG020403.D  
 Acq On : 22 Dec 2015 8:07  
 Operator : UM/SJ  
 Sample : G4848-08DL 30X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 22 13:50:30 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 22 05:02:37 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 17084    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.91 | 136  | 73459    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.72 | 164  | 50719    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.47 | 188  | 123752   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.74 | 240  | 160214   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.02 | 264  | 131494   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |      |      |       |      |
|--------------------------------|-------|-----|------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0    | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 7.25  | 99  | 592  | 0.39 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.41  | 67  | 483  | 0.54 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.63  | 132 | 471  | 0.43 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.81  | 113 | 646  | 0.50 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.26  | 128 | 64   | 0.11 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.98  | 143 | 87   | 0.14 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.53 | 165 | 774  | 0.60 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.05 | 131 | 826  | 0.57 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.12 | 166 | 3382 | 0.82 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.42 | 160 | 3787 | 0.79 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.93 | 143 | 114  | 0.15 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.71 | 176 | 3483 | 0.94 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0    | 0.00 | ng/ul |      |
| 71) Anthracene-d10             | 17.57 | 188 | 5691 | 1.00 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.85 | 212 | 6193 | 0.83 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.79 | 264 | 5328 | 0.81 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |          |        |        | Qvalue |
|--------------------------|-------|-----|----------|--------|--------|--------|
| 28) Naphthalene          | 10.97 | 128 | 970042   | 252.87 | ng/ul  | 97     |
| 34) 2-Methylnaphthalene  | 12.56 | 142 | 316506   | 108.01 | ng/ul  | 99     |
| 41) 1,1'-Biphenyl        | 13.55 | 154 | 106340   | 27.79  | ng/ul  | 98     |
| 48) Acenaphthylene       | 14.45 | 152 | 24215    | 4.78   | ng/ul# | 95     |
| 50) Acenaphthene         | 14.79 | 153 | 467540   | 137.03 | ng/ul  | 99     |
| 54) Dibenzofuran         | 15.12 | 168 | 466678   | 91.95  | ng/ul  | 98     |
| 59) Fluorene             | 15.77 | 166 | 449473   | 110.28 | ng/ul  | 99     |
| 70) Phenanthrene         | 17.53 | 178 | 1737014m | 256.61 | ng/ul  |        |
| 72) Anthracene           | 17.60 | 178 | 162815   | 23.71  | ng/ul  | 99     |
| 75) Carbazole            | 17.87 | 167 | 86923    | 15.07  | ng/ul  | 99     |
| 77) Fluoranthene         | 19.52 | 202 | 1126574  | 142.41 | ng/ul  | 99     |
| 80) Pyrene               | 19.88 | 202 | 769194   | 79.32  | ng/ul  | 99     |
| 83) Benzo(a)anthracene   | 21.72 | 228 | 191095   | 20.44  | ng/ul  | 98     |
| 85) Chrysene             | 21.79 | 228 | 161538   | 18.35  | ng/ul  | 95     |
| 88) Benzo(b)fluoranthene | 23.97 | 252 | 80322    | 10.15  | ng/ul# | 92     |
| 89) Benzo(k)fluoranthene | 24.03 | 252 | 31625m   | 4.16   | ng/ul  |        |
| 91) Benzo(a)pyrene       | 24.85 | 252 | 37848    | 5.04   | ng/ul  | 95     |

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

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