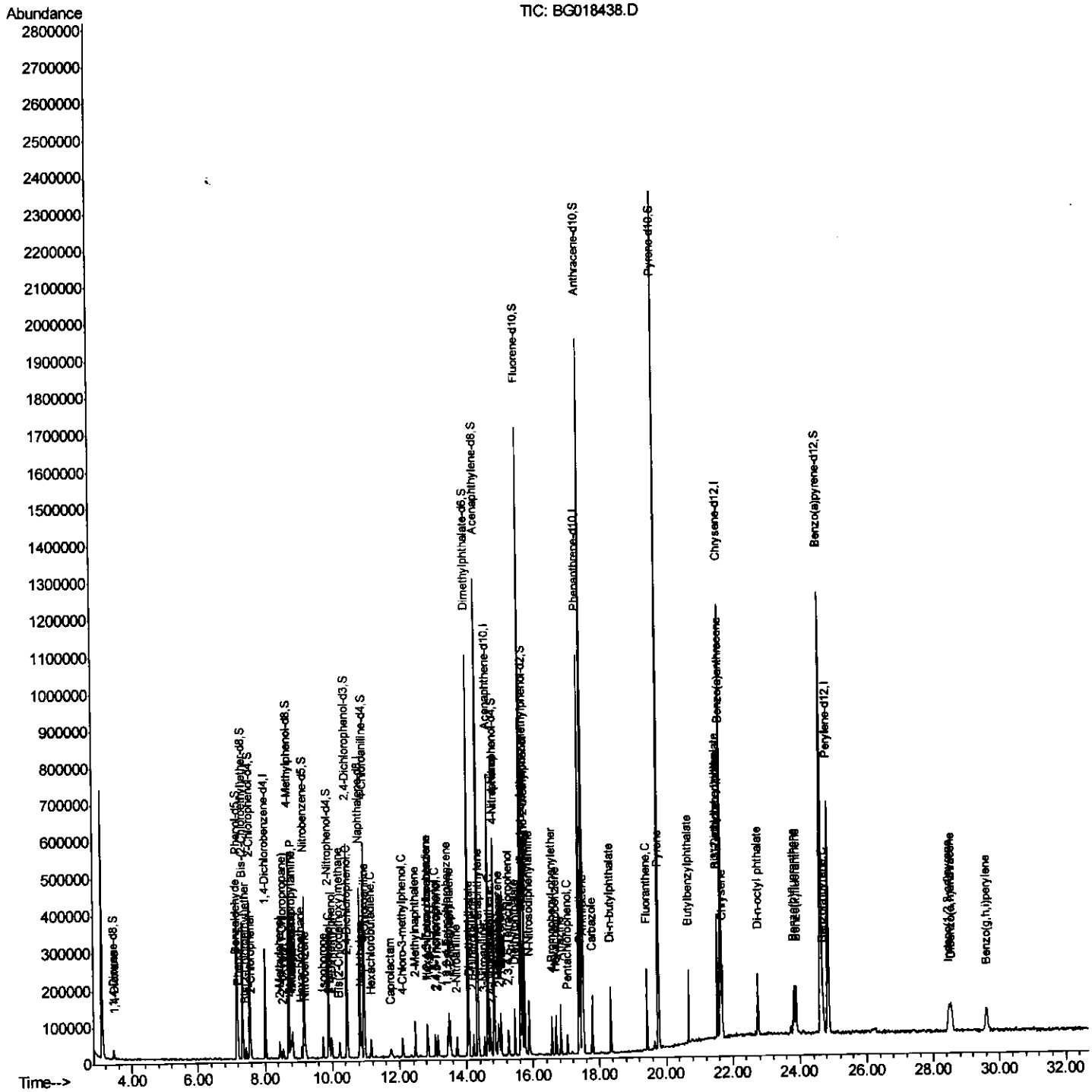
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

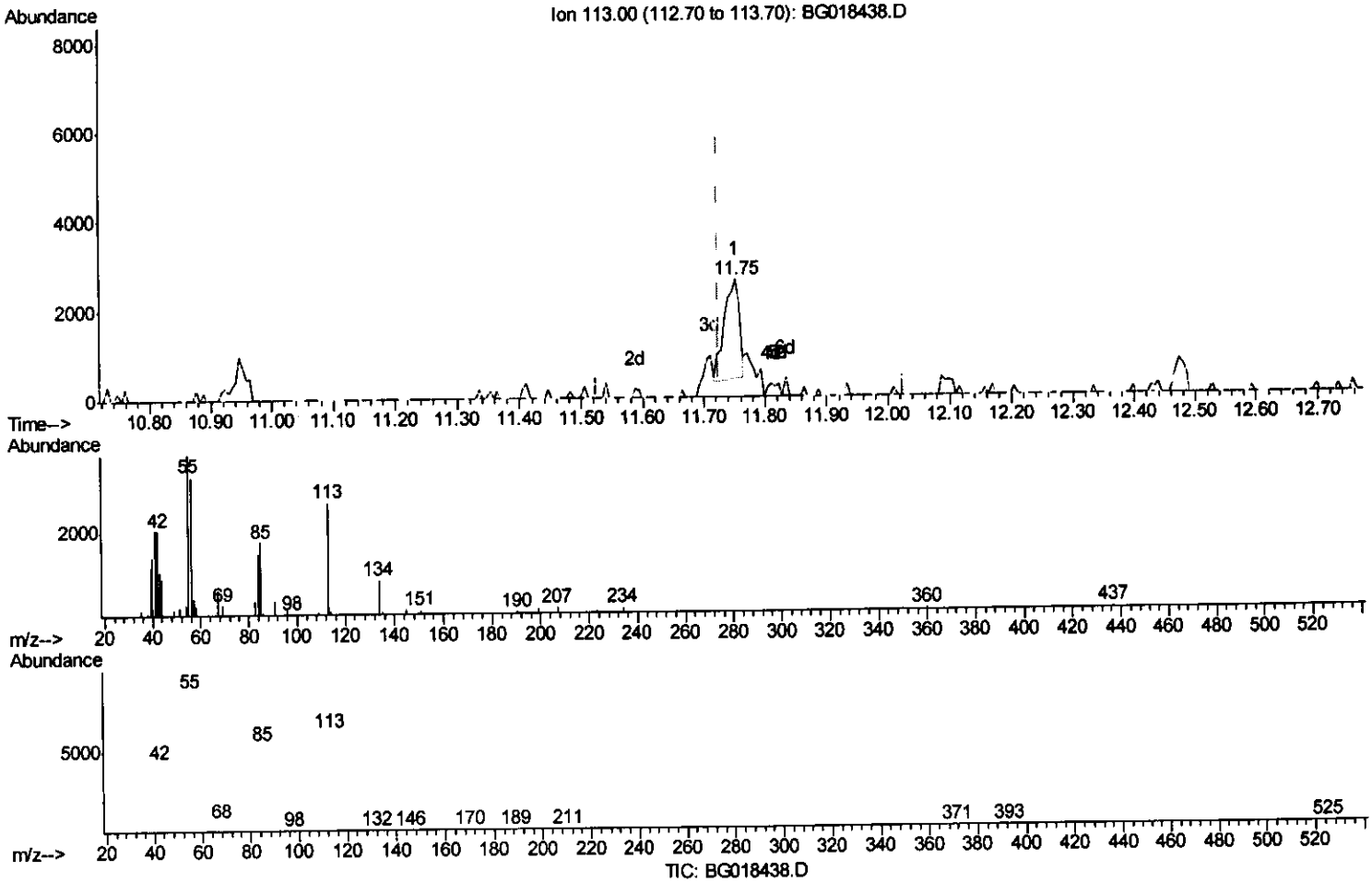
Quant Time: Aug 17 04:03:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




(32) Caprolactam

11.751min (+0.027) 1.53ng/ul

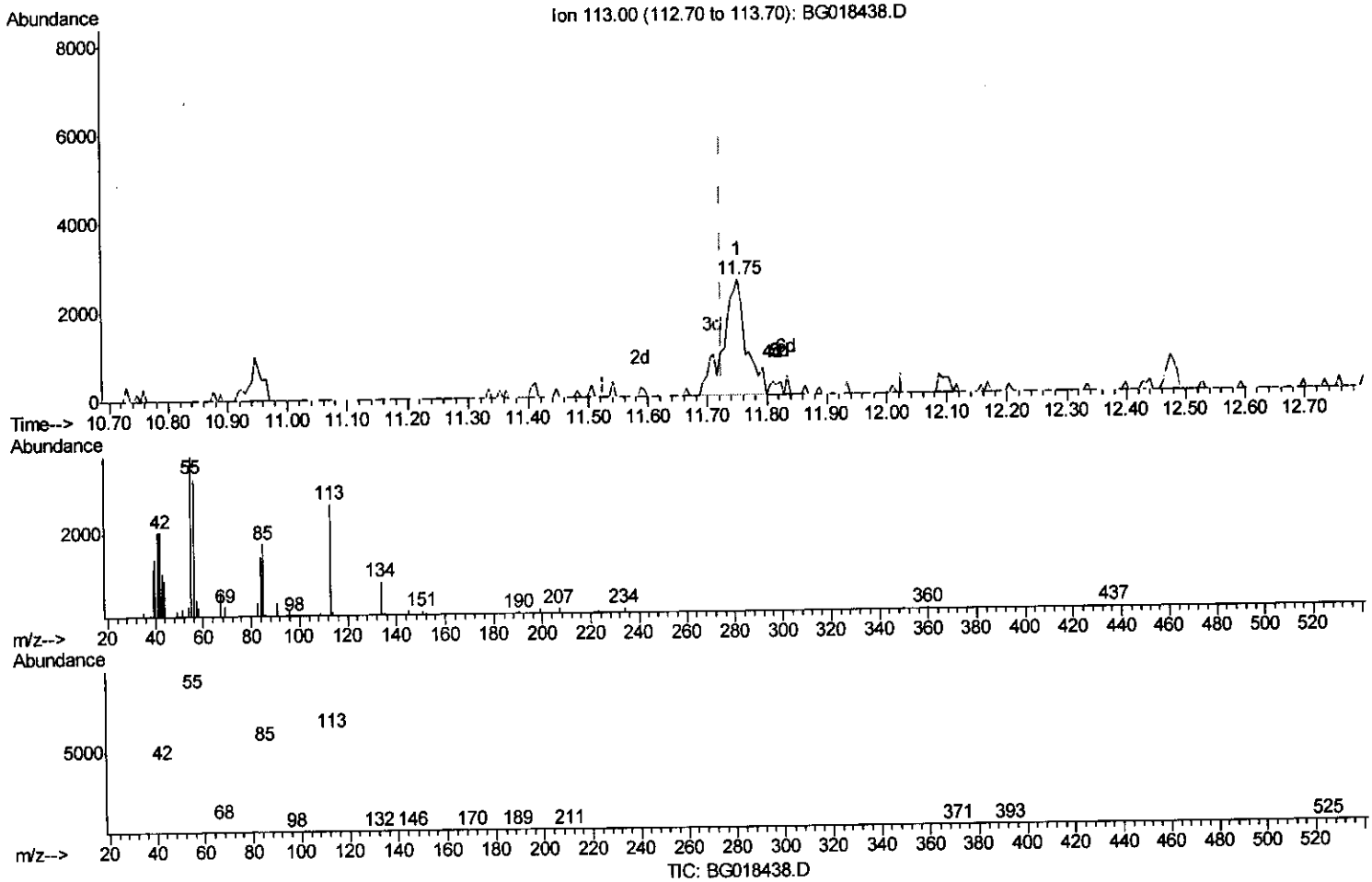
response 3833

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 155.30 | 141.63 |
| 56.00 | 122.80 | 122.32 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




(32) Caprolactam

11.751min (+0.027) 2.88ng/ul m UM 8/17/15

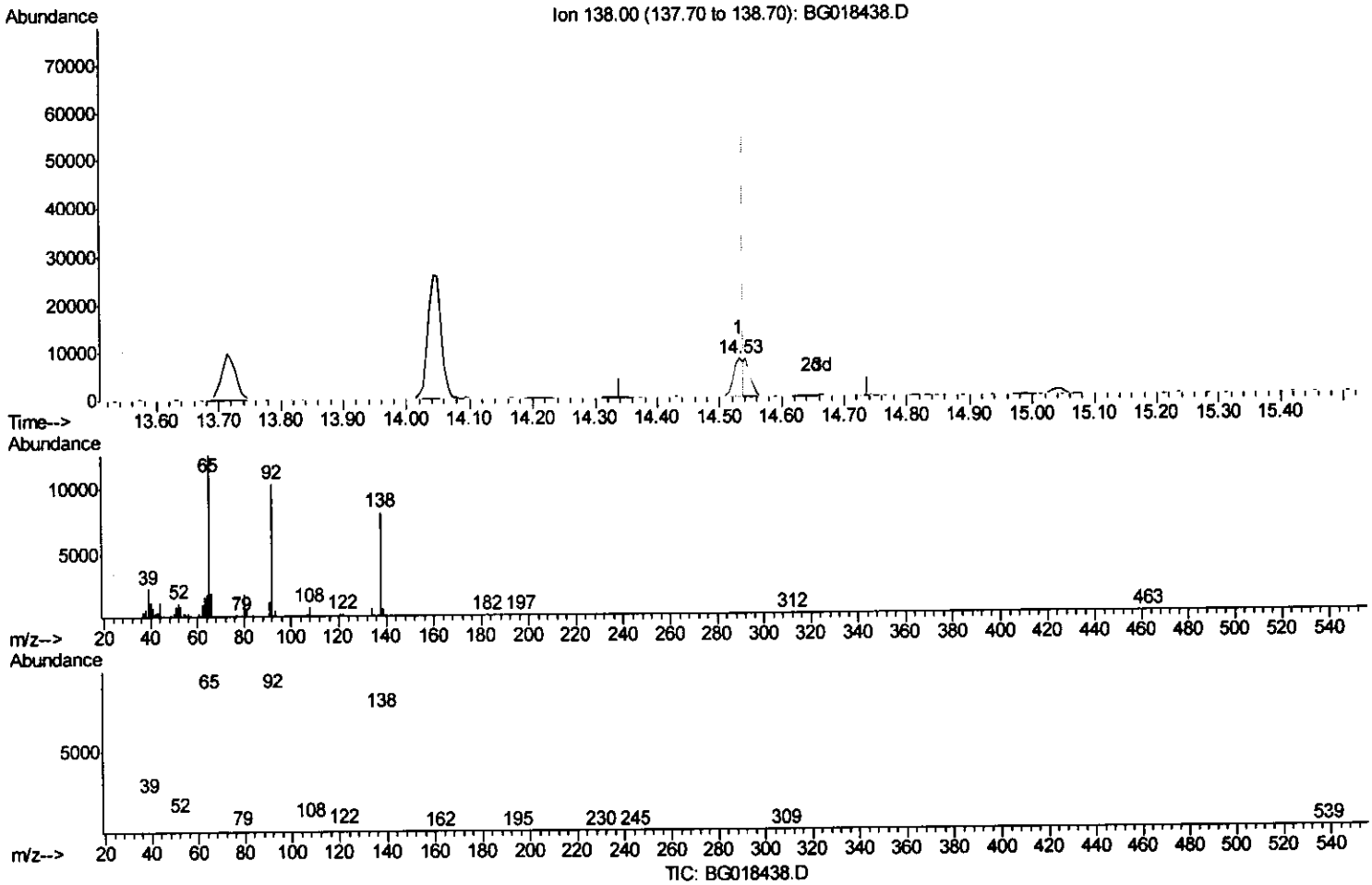
response 7228

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 155.30 | 141.63 |
| 56.00 | 122.80 | 122.32 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




TIC: BG018438.D

(49) 3-Nitroaniline

14.531min (-0.008) 2.14ng/ul

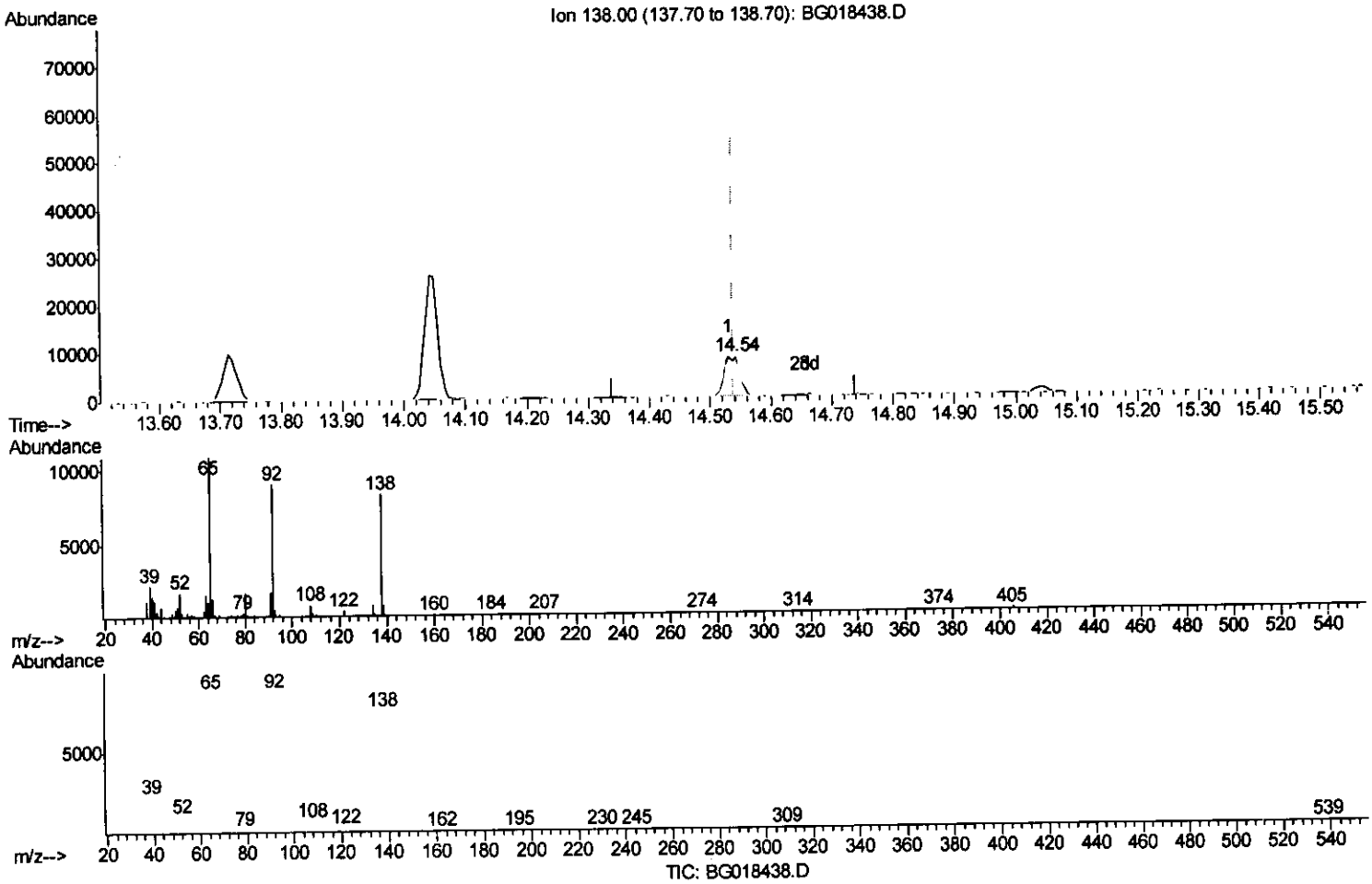
response 9102

| Ion | Exp% | Act% |
|---|---|---|
| 138.00 | 100 | 100 |
| 108.00 | 11.70 | 13.20 |
| 92.00 | 128.50 | 127.57 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




(49) 3-Nitroaniline

14.542min (+0.004) 3.52ng/ul m U.M 8/17/15

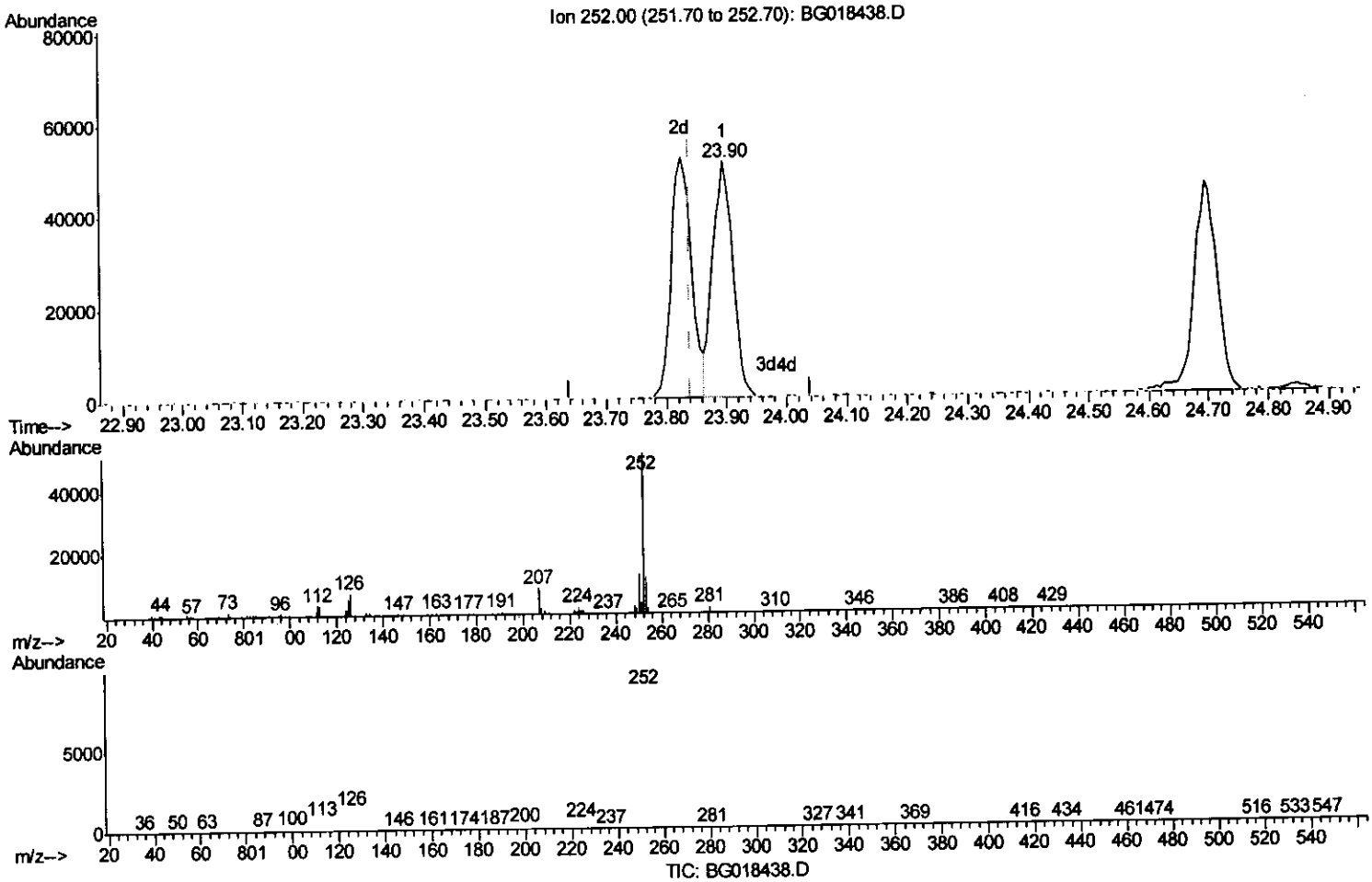
response 14961

| Ion | Exp% | Act% |
|---|---|---|
| 138.00 | 100 | 100 |
| 108.00 | 11.70 | 11.13 |
| 92.00 | 128.50 | 108.84 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




TIC: BG018438.D

(88) Benzo(b)fluoranthene

23.896min (+0.057) 3.03ng/ul

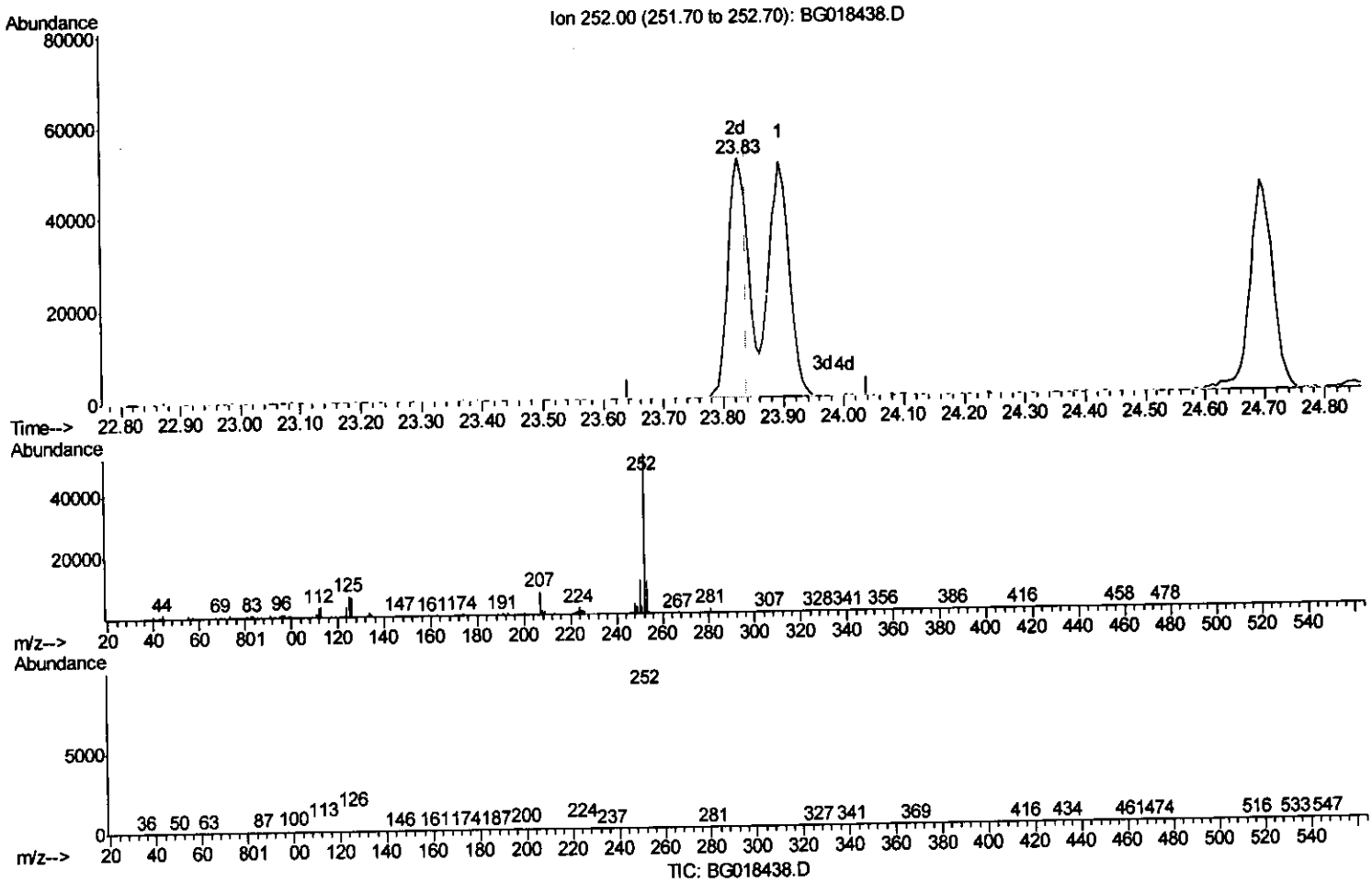
response 117317

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 22.60 | 22.54 |
| 125.00 | 10.40 | 10.90 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




(88) Benzo(b)fluoranthene

23.825min (-0.014) 3.17ng/ul m U.M 8|17|15

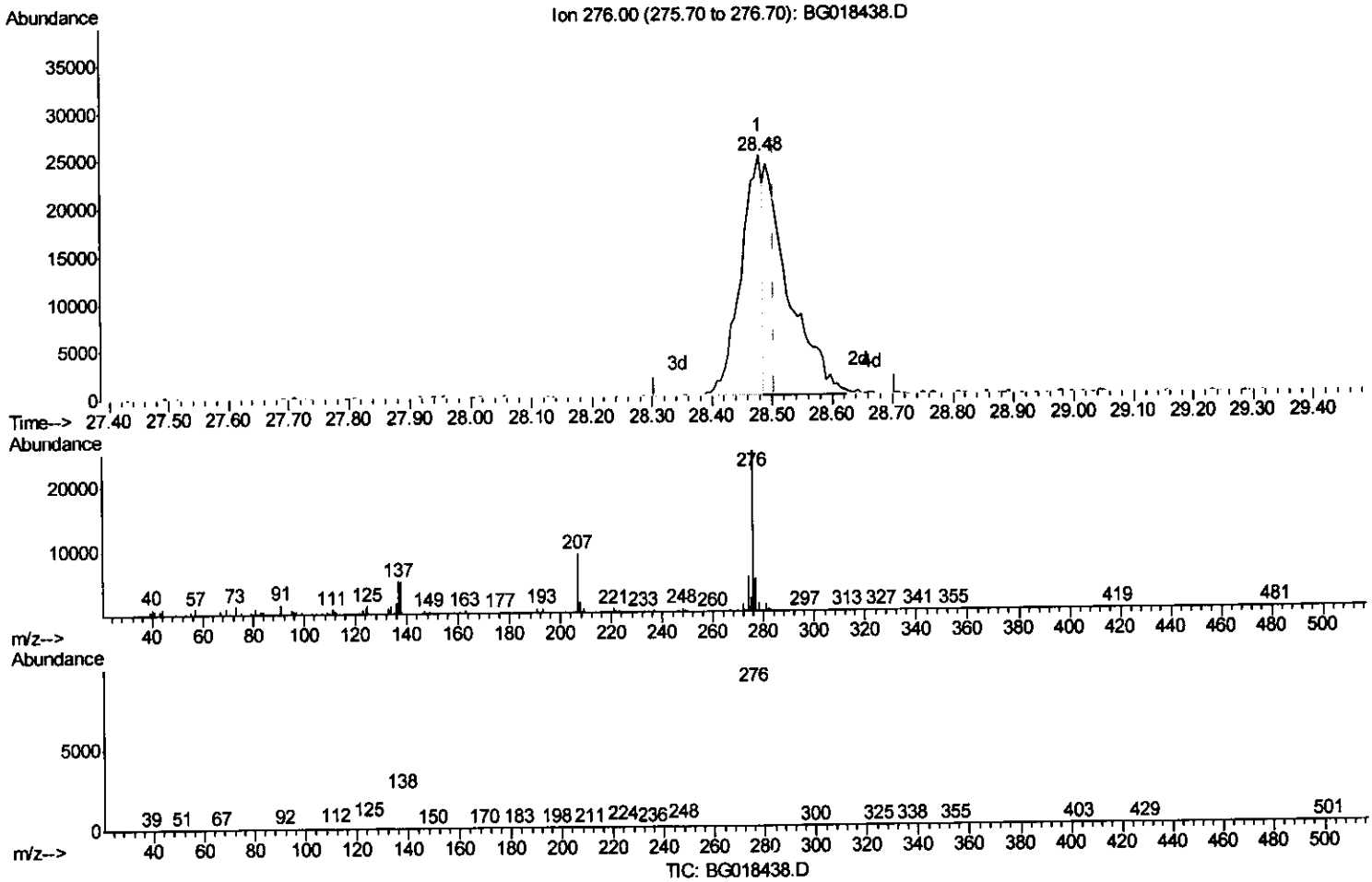
response 122800

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 22.60 | 20.68 |
| 125.00 | 10.40 | 13.32# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




(92) Indeno(1,2,3-cd)pyrene

28.479min (-0.026) 1.48ng/ul

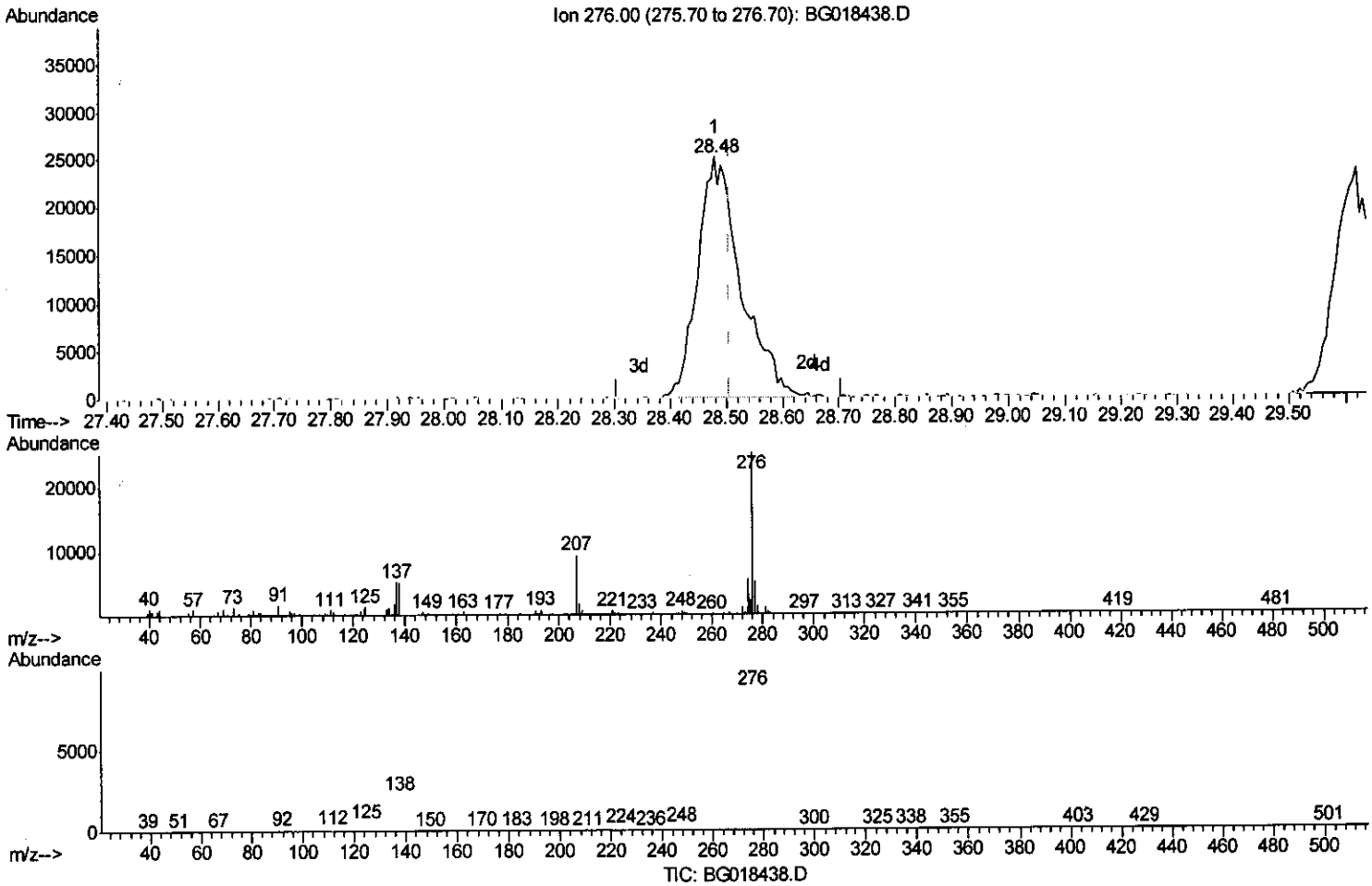
response 63011

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 19.70 | 20.52 |
| 277.00 | 23.60 | 20.84 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




(92) Indeno(1,2,3-cd)pyrene

28.479min (-0.026) 3.11ng/ul m U.M 8|17|15

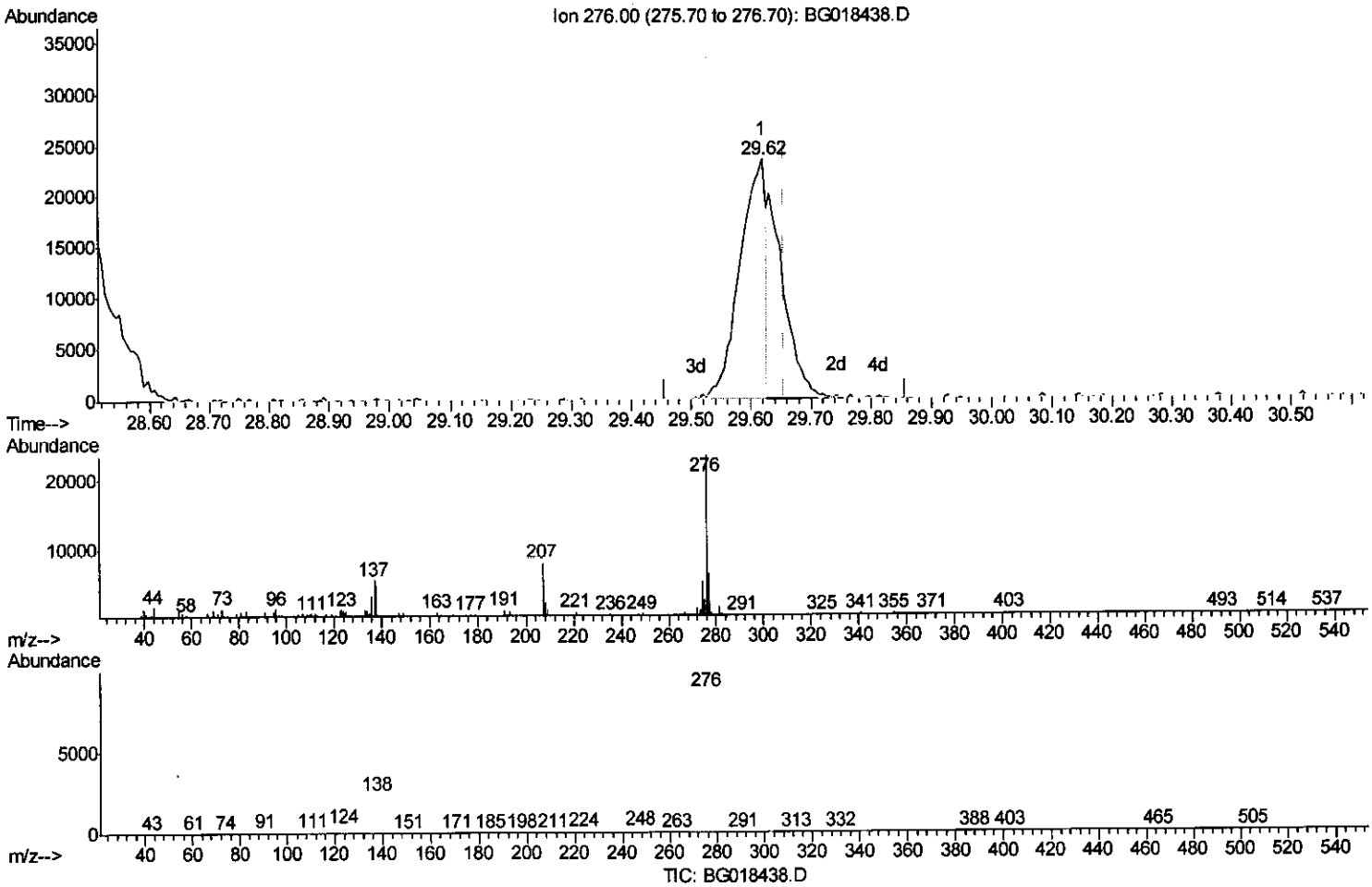
response 132553

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 19.70 | 20.52 |
| 277.00 | 23.60 | 20.84 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




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

29.619min (-0.038) 1.92ng/ul

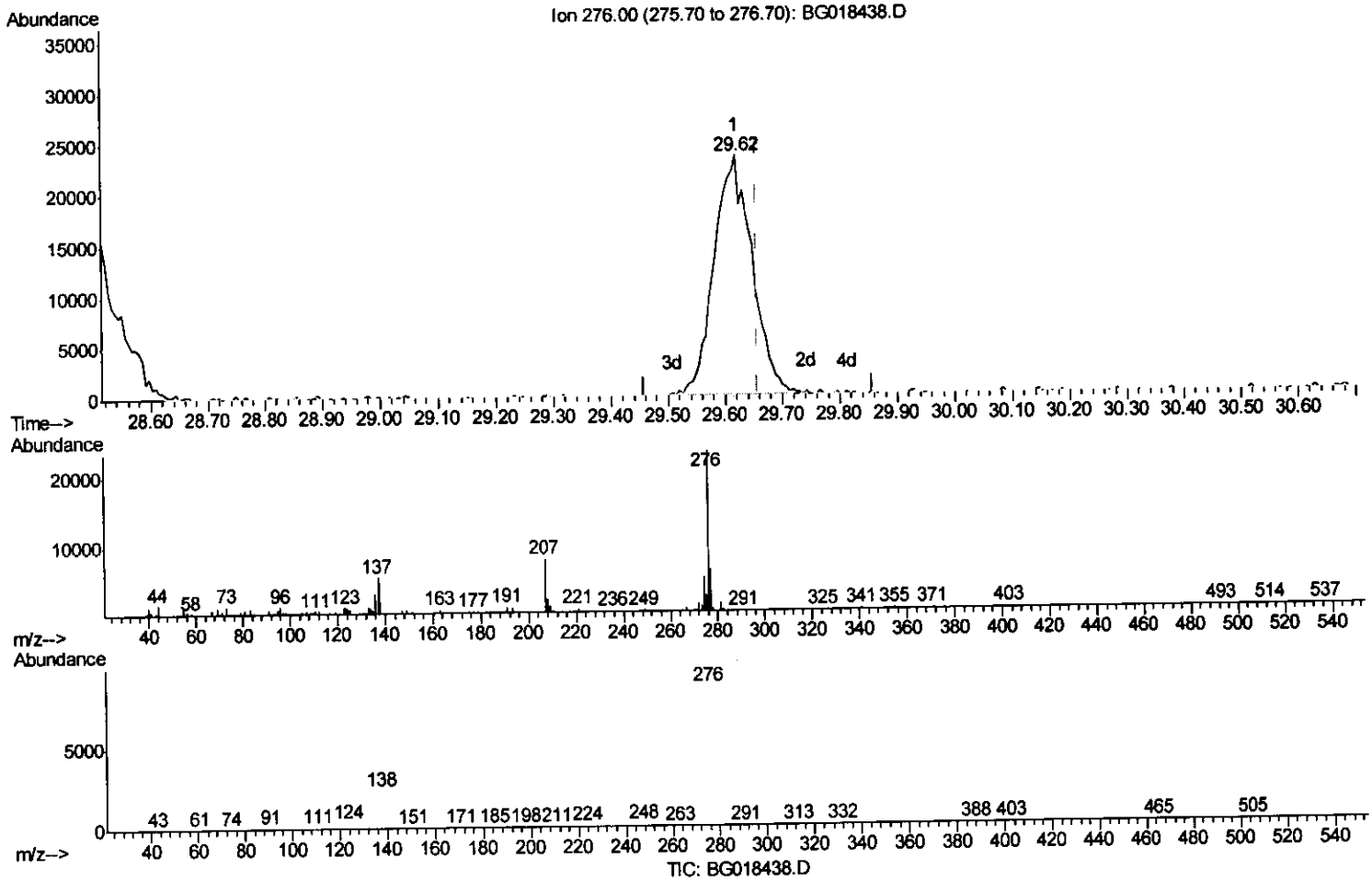
response 68686

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 20.60 | 19.52 |
| 277.00 | 23.80 | 26.55 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 03:19:31 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration




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

29.619min (-0.038) 3.03ng/ul m U.M 8/17/15

response 108276

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 20.60 | 19.52 |
| 277.00 | 23.80 | 26.55 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 04:03:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.02 | 152 | 89315 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.82 | 136 | 394775 | 20.00 | ng/ul | 0.00 |
| 36) Acenaphthene-d10 | 14.64 | 164 | 251963 | 20.00 | ng/ul | 0.00 |
| 62) Phenanthrene-d10 | 17.39 | 188 | 629210 | 20.00 | ng/ul | 0.00 |
| 78) Chrysene-d12 | 21.65 | 240 | 625600 | 20.00 | ng/ul | 0.00 |
| 86) Perylene-d12 | 24.85 | 264 | 615775 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.45 | 96 | 13542 | 6.70 | ng/uL | 0.00 |
| 5) Phenol-d5 | 7.17 | 99 | 273438 | 33.73 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 7.34 | 67 | 174033 | 34.64 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.55 | 132 | 205104 | 33.04 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.72 | 113 | 229258 | 33.66 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 9.17 | 128 | 112259 | 36.48 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.90 | 143 | 117355 | 37.44 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.44 | 165 | 221384 | 33.28 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.95 | 131 | 320541 | 42.64 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6 | 14.05 | 166 | 773465 | 36.48 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8 | 14.34 | 160 | 941833 | 35.28 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4 | 14.83 | 143 | 153394 | 40.23 | ng/ul | 0.00 |
| 58) Fluorene-d10 | 15.64 | 176 | 678797 | 36.76 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.74 | 200 | 117779 | 38.06 | ng/ul | 0.00 |
| 71) Anthracene-d10 | 17.49 | 188 | 1097960 | 36.49 | ng/ul | 0.00 |
| 79) Pyrene-d10 | 19.77 | 212 | 1189797 | 36.66 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12 | 24.63 | 264 | 1233858 | 37.74 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.48 | 88 | 1674 | 0.77 | ng/uL | 95 |
| 4) Benzaldehyde | 7.15 | 77 | 16930 | 3.56 | ng/ul | 91 |
| 6) Phenol | 7.20 | 94 | 23461 | 2.84 | ng/ul | 98 |
| 8) Bis(2-Chloroethyl)ether | 7.43 | 93 | 19656 | 3.09 | ng/ul | 98 |
| 10) 2-Chlorophenol | 7.58 | 128 | 18073 | 2.86 | ng/ul | 93 |
| 11) 2-Methylphenol | 8.46 | 108 | 17513 | 2.73 | ng/ul | 93 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.55 | 45 | 25049 | 2.45 | ng/ul# | 92 |
| 14) Acetophenone | 8.83 | 105 | 29859 | 3.04 | ng/ul | 94 |
| 15) N-Nitroso-di-n-propylamine | 8.81 | 70 | 16937 | 3.00 | ng/ul# | 85 |
| 16) 4-Methylphenol | 8.78 | 108 | 20023 | 2.86 | ng/ul | 97 |
| 17) Hexachloroethane | 9.10 | 117 | 7212 | 2.64 | ng/ul | 93 |
| 20) Nitrobenzene | 9.22 | 77 | 22260 | 2.87 | ng/ul# | 90 |
| 21) Isophorone | 9.74 | 82 | 47640 | 3.19 | ng/ul# | 94 |
| 23) 2-Nitrophenol | 9.93 | 139 | 11478 | 3.30 | ng/ul | 94 |
| 24) 2,4-Dimethylphenol | 9.98 | 107 | 20910 | 2.68 | ng/ul | 97 |
| 25) Bis(2-Chloroethoxy)methane | 10.22 | 93 | 27694 | 2.97 | ng/ul | 97 |
| 27) 2,4-Dichlorophenol | 10.46 | 162 | 18150 | 2.91 | ng/ul | 92 |
| 28) Naphthalene | 10.87 | 128 | 61979 | 2.97 | ng/ul | 98 |
| 30) 4-Chloroaniline | 10.98 | 127 | 29042 | 3.80 | ng/ul# | 77 |
| 31) Hexachlorobutadiene | 11.16 | 225 | 11432 | 2.90 | ng/ul | 88 |
| 32) Caprolactam | 11.75 | 113 | 7228m> | 2.88 | ng/ul | |
| 33) 4-Chloro-3-methylphenol | 12.10 | 107 | 23376 | 3.24 | ng/ul# | 93 |
| 34) 2-Methylnaphthalene | 12.47 | 142 | 46832 | 3.10 | ng/ul | 88 |

UM 8/17/15

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081415\
Data File : BG018438.D
Acq On : 14 Aug 2015 21:11
Operator : UM/MA
Sample : MDL-04-W
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 04:03:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 03:15:20 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) 1,2,4,5-Tetrachlorobenzene | 12.84 | 216 | 25288 | 3.13 ng/ul | 97 |
| 38) Hexachlorocyclopentadiene | 12.83 | 237 | 11860 | 2.47 ng/ul# | 70 |
| 39) 2,4,6-Trichlorophenol | 13.08 | 196 | 14990 | 2.72 ng/ul | 96 |
| 40) 2,4,5-Trichlorophenol | 13.14 | 196 | 15687 | 2.65 ng/ul | 96 |
| 41) 1,1'-Biphenyl | 13.48 | 154 | 63650 | 3.03 ng/ul | 93 |
| 42) 2-Chloronaphthalene | 13.52 | 162 | 50118 | 3.07 ng/ul | 98 |
| 43) 2-Nitroaniline | 13.71 | 65 | 15351 | 2.91 ng/ul | 98 |
| 45) Dimethylphthalate | 14.09 | 163 | 63850 | 3.05 ng/ul | 96 |
| 46) 2,6-Dinitrotoluene | 14.21 | 165 | 12153 | 2.92 ng/ul | 88 |
| 48) Acenaphthylene | 14.37 | 152 | 82991 | 3.10 ng/ul | 98 |
| 49) 3-Nitroaniline | 14.54 | 138 | 14961m | 3.52 ng/ul | |
| 50) Acenaphthene | 14.71 | 153 | 56591 | 3.01 ng/ul | 96 |
| 51) 2,4-Dinitrophenol | 14.75 | 184 | 4384 | 2.16 ng/ul# | 73 |
| 53) 4-Nitrophenol | 14.84 | 109 | 10542 | 3.18 ng/ul# | 82 |
| 54) Dibenzofuran | 15.04 | 168 | 78777 | 3.21 ng/ul | 94 |
| 55) 2,4-Dinitrotoluene | 14.99 | 165 | 17627 | 2.97 ng/ul# | 97 |
| 56) 2,3,4,6-Tetrachlorophenol | 15.26 | 232 | 15281 | 2.96 ng/ul# | 96 |
| 57) Diethylphthalate | 15.45 | 149 | 72780 | 3.28 ng/ul | 99 |
| 59) Fluorene | 15.69 | 166 | 66155 | 3.13 ng/ul | 94 |
| 60) 4-Chlorophenyl-phenylether | 15.68 | 204 | 31438 | 3.15 ng/ul | 98 |
| 61) 4-Nitroaniline | 15.69 | 138 | 15358 | 3.27 ng/ul | 97 |
| 64) 4,6-Dinitro-2-methylphenol | 15.76 | 198 | 10592 | 3.21 ng/ul# | 63 |
| 65) N-Nitrosodiphenylamine | 15.89 | 169 | 58335 | 3.08 ng/ul | 95 |
| 66) 4-Bromophenyl-phenylether | 16.58 | 248 | 19728 | 2.90 ng/ul | 95 |
| 67) Hexachlorobenzene | 16.69 | 284 | 22633 | 3.15 ng/ul | 94 |
| 68) Atrazine | 16.83 | 200 | 22815 | 3.22 ng/ul | 98 |
| 69) Pentachlorophenol | 17.04 | 266 | 10952 | 2.27 ng/ul# | 87 |
| 70) Phenanthrene | 17.43 | 178 | 114957 | 3.37 ng/ul | 95 |
| 72) Anthracene | 17.52 | 178 | 115560 | 3.32 ng/ul | 96 |
| 73) 1,2,3,4-Tetrachlorobenzene | 13.45 | 216 | 23287 | 2.67 ng/uL | 95 |
| 74) Pentachlorobenzene | 14.97 | 250 | 23664 | 2.85 ng/uL | 91 |
| 75) Carbazole | 17.79 | 167 | 105998 | 3.47 ng/ul | 96 |
| 76) Di-n-butylphthalate | 18.34 | 149 | 134117 | 3.37 ng/ul# | 98 |
| 77) Fluoranthene | 19.43 | 202 | 135442 | 3.71 ng/ul | 99 |
| 80) Pyrene | 19.79 | 202 | 143375 | 3.39 ng/ul | 96 |
| 81) Butylbenzylphthalate | 20.68 | 149 | 57477 | 3.21 ng/ul | 95 |
| 82) 3,3'-Dichlorobenzidine | 21.54 | 252 | 47717 | 3.67 ng/ul | 93 |
| 83) Benzo(a)anthracene | 21.63 | 228 | 127898 | 3.30 ng/ul | 99 |
| 84) Bis(2-ethylhexyl)phthalate | 21.54 | 149 | 83725 | 3.31 ng/ul | 98 |
| 85) Chrysene | 21.69 | 228 | 121779 | 3.36 ng/ul | 94 |
| 87) Di-n-octyl phthalate | 22.75 | 149 | 142266 | 3.58 ng/ul | 100 |
| 88) Benzo(b)fluoranthene | 23.83 | 252 | 122800m | 3.17 ng/ul | |
| 89) Benzo(k)fluoranthene | 23.90 | 252 | 117920 | 3.17 ng/ul | 99 |
| 91) Benzo(a)pyrene | 24.70 | 252 | 116794 | 3.18 ng/ul | 97 |
| 92) Indeno(1,2,3-cd)pyrene | 28.48 | 276 | 132553m | 3.11 ng/ul | |
| 93) Dibenzo(a,h)anthracene | 28.55 | 278 | 109251 | 3.09 ng/ul | 96 |
| 94) Benzo(g,h,i)perylene | 29.62 | 276 | 108276m | 3.03 ng/ul | |

U.M 8/17/15

U.M 8/17/15

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