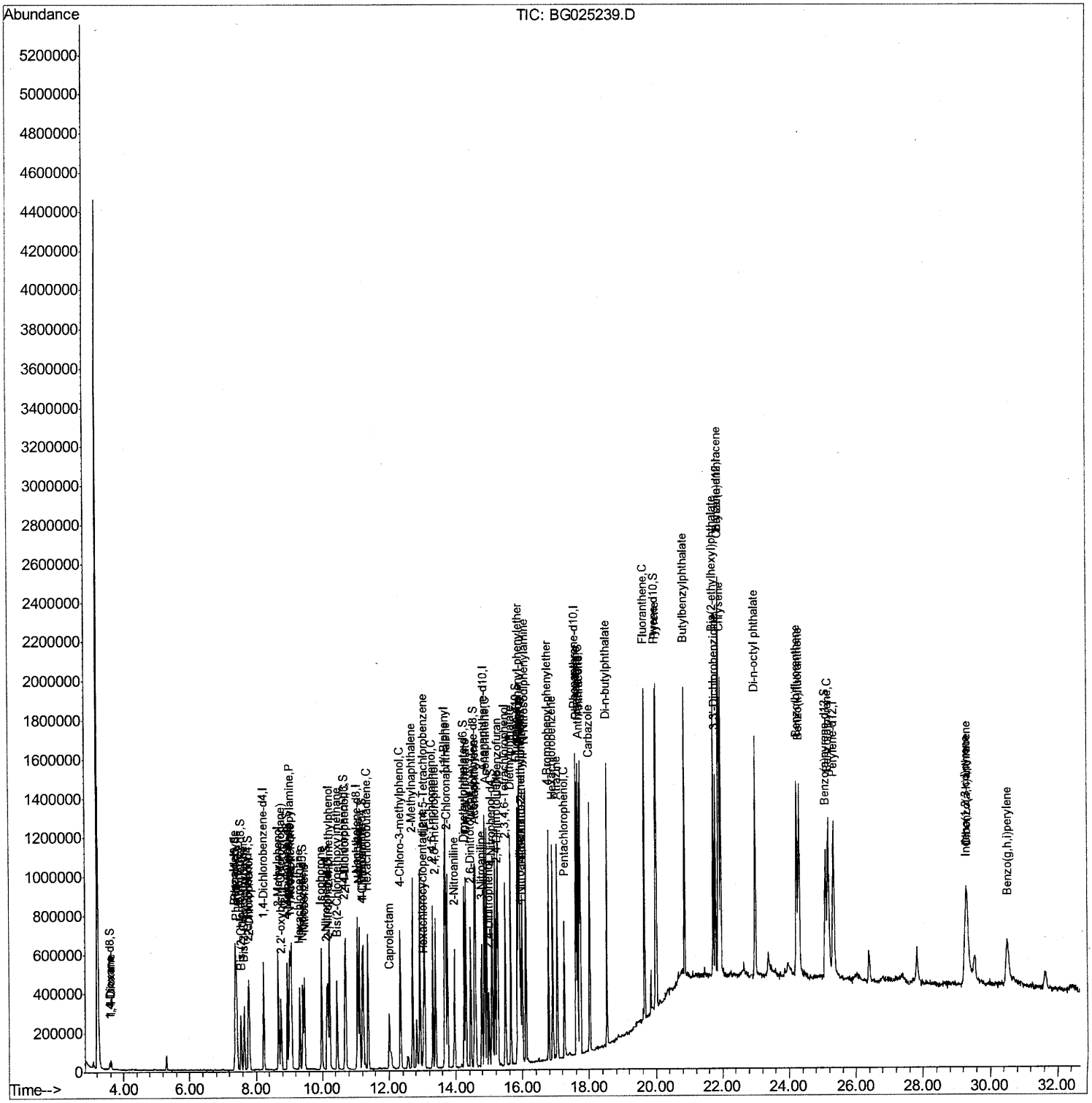
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:20:13 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM



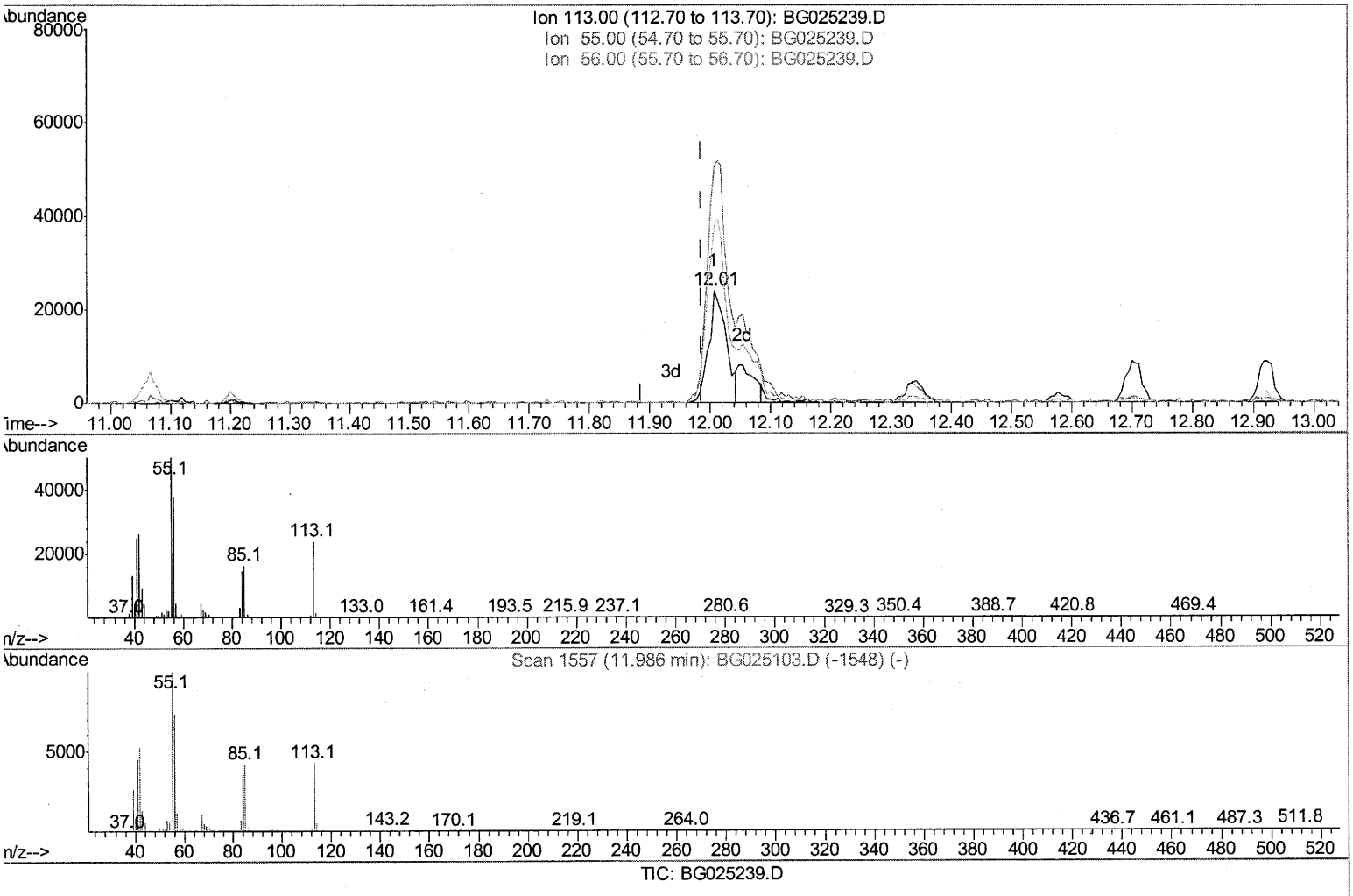
# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM










TIC: BG025239.D

(32) Caprolactam

12.006min (+0.020) 11.46ng/ul

response 48760

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 210.70 | 209.50 |
| 56.00 | 160.60 | 157.57 |
| 0.00 | 0.00 | 0.00 |

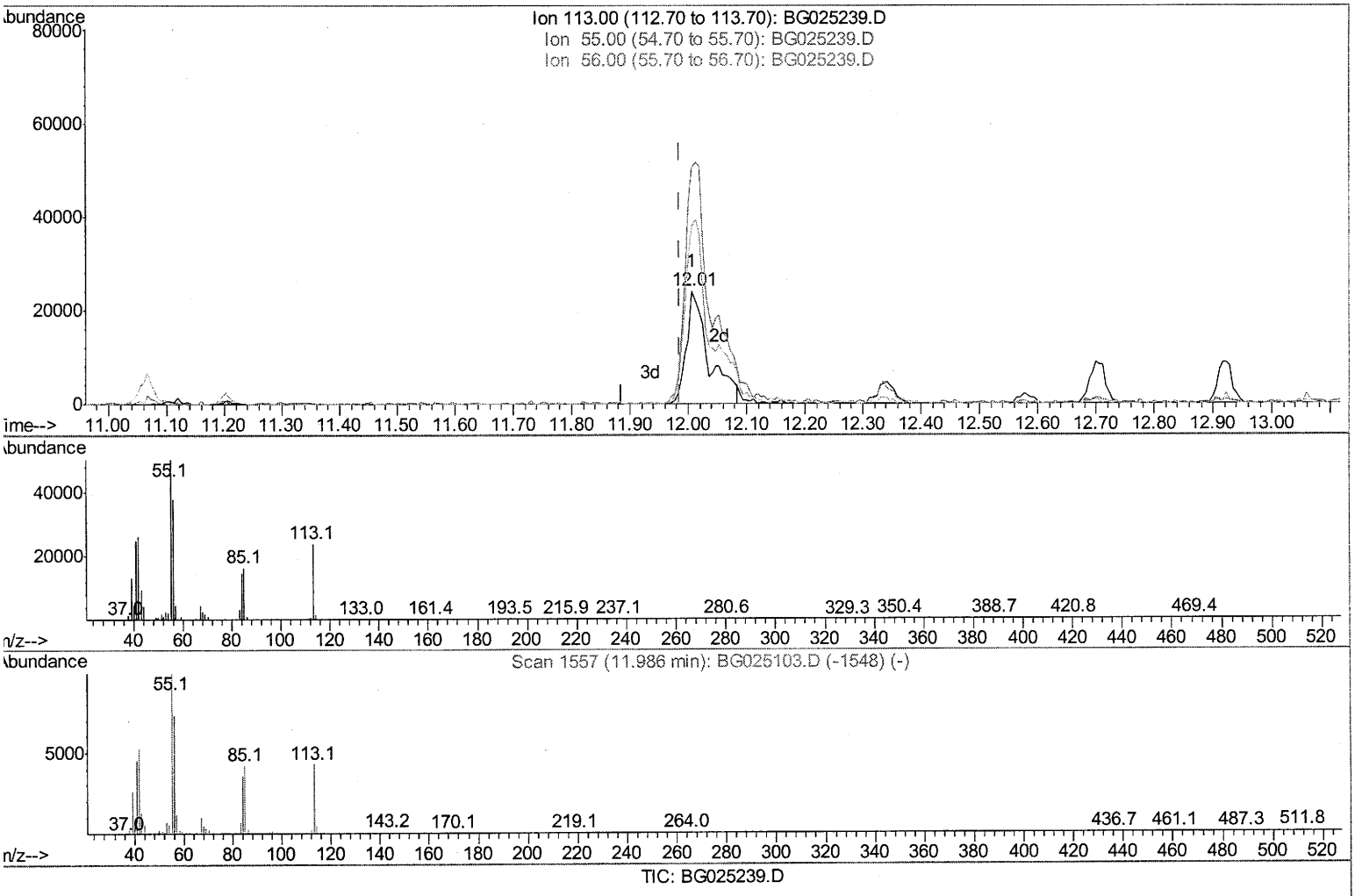
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM




TIC: BG025239.D

(32) Caprolactam

12.006min (+0.020) 15.37ng/ul m

response 65380

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 210.70 | 209.50 |
| 56.00 | 160.60 | 157.57 |
| 0.00 | 0.00 | 0.00 |

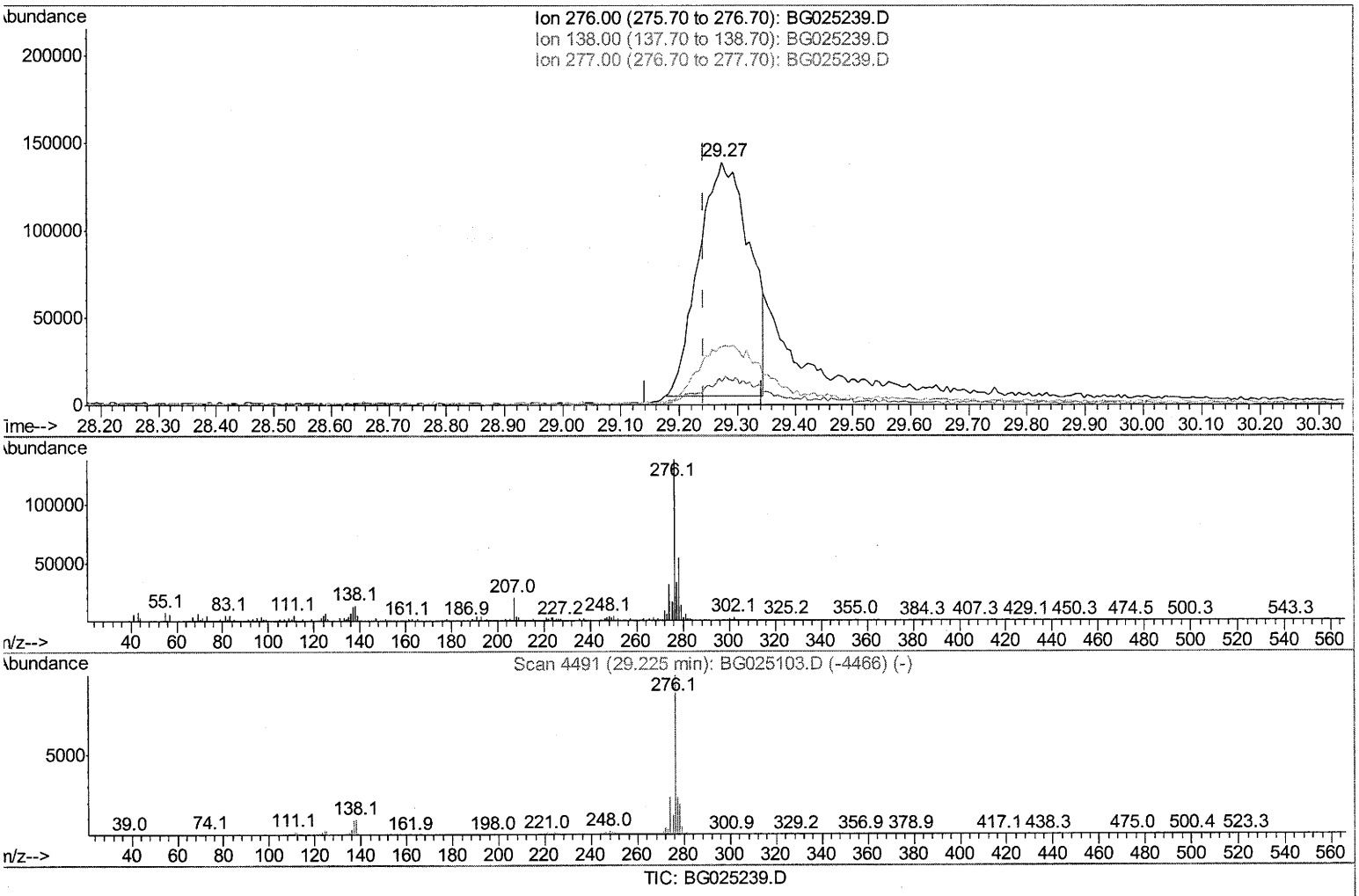
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM




TIC: BG025239.D

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

29.274min (+0.032) 13.17ng/ul

response 816783

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 10.30 | 9.77 |
| 277.00 | 23.30 | 23.98 |
| 0.00 | 0.00 | 0.00 |

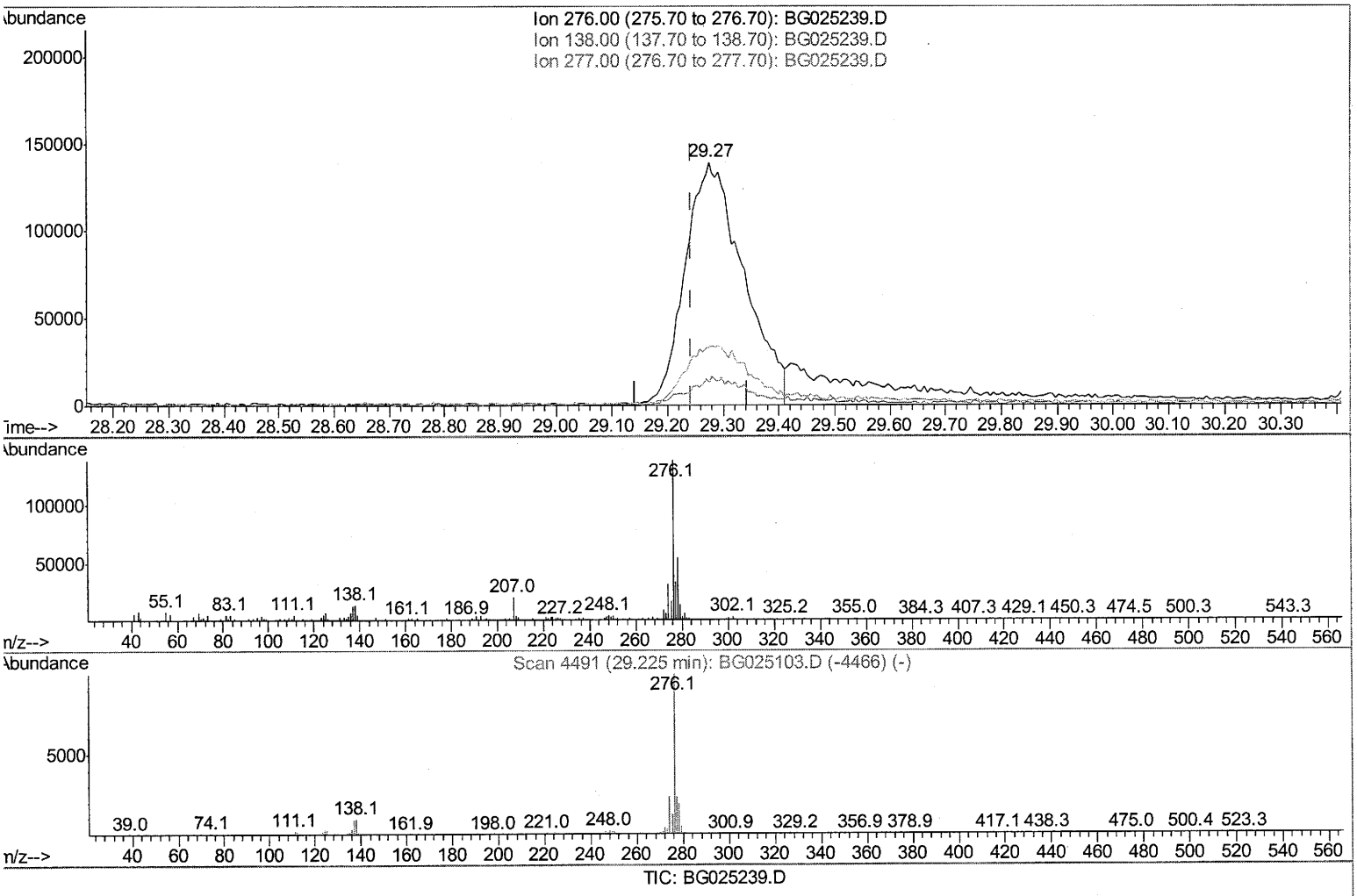
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM




TIC: BG025239.D

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

29.274min (+0.032) 16.45ng/ul m

response 1019741

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 10.30 | 9.77 |
| 277.00 | 23.30 | 23.98 |
| 0.00 | 0.00 | 0.00 |

12/16/16

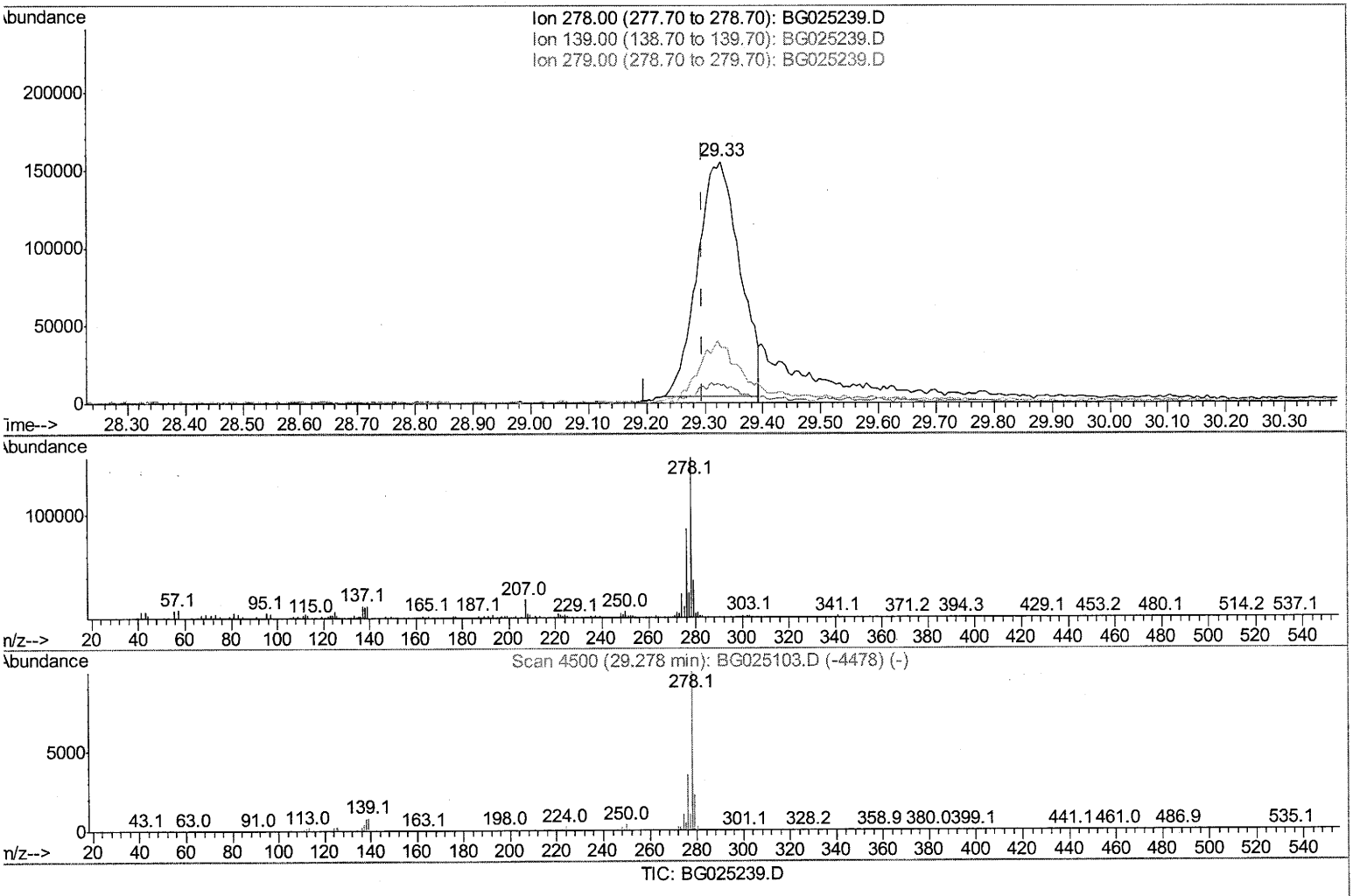
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM




TIC: BG025239.D

(90) Dibenzo(a,h)anthracene

29.327min (+0.032) 14.63ng/ul

response 764547

| Ion | Exp% | Act% |
|---|---|---|
| 278.00 | 100 | 100 |
| 139.00 | 8.40 | 7.41 |
| 279.00 | 26.10 | 23.21 |
| 0.00 | 0.00 | 0.00 |

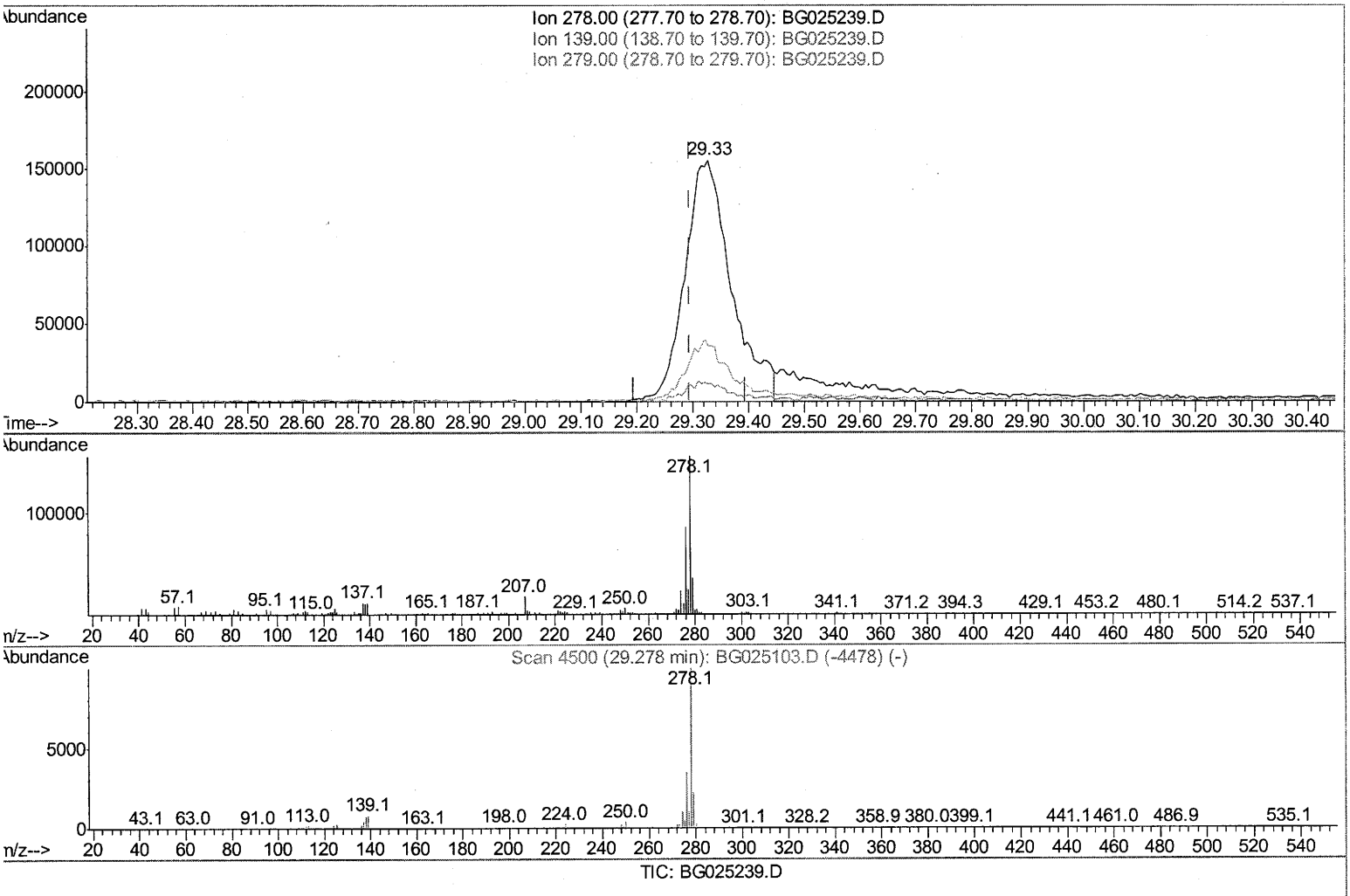
# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM




(90) Dibenzo(a,h)anthracene

29.327min (+0.032) 17.13ng/ul m

response 895003

| Ion | Exp% | Act% |
|---|---|---|
| 278.00 | 100 | 100 |
| 139.00 | 8.40 | 7.41 |
| 279.00 | 26.10 | 23.21 |
| 0.00 | 0.00 | 0.00 |

12/16/16

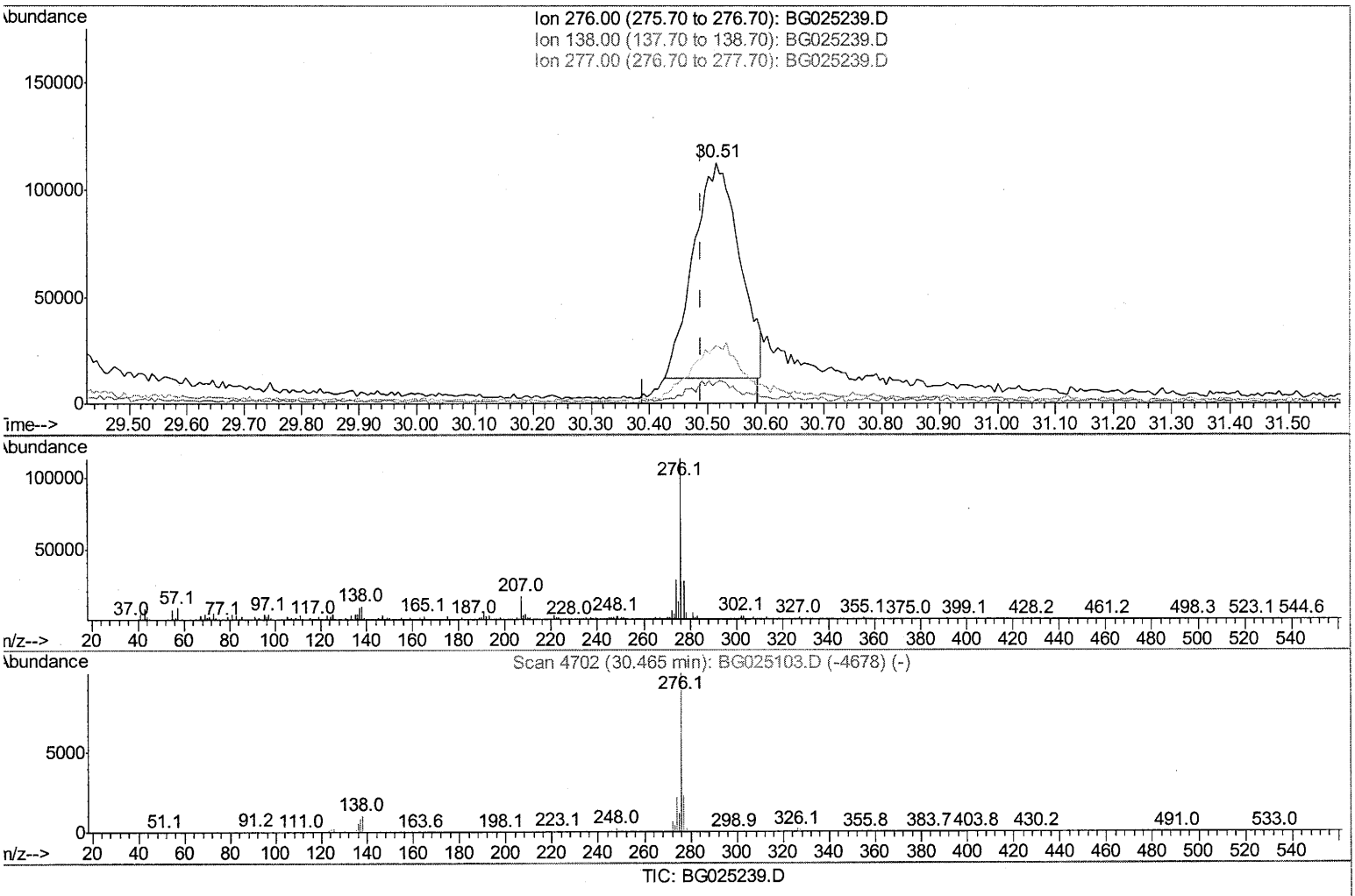
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM




TIC: BG025239.D

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

30.514min (+0.026) 10.72ng/ul

response 554513

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 10.70 | 8.66 |
| 277.00 | 22.00 | 23.90 |
| 0.00 | 0.00 | 0.00 |

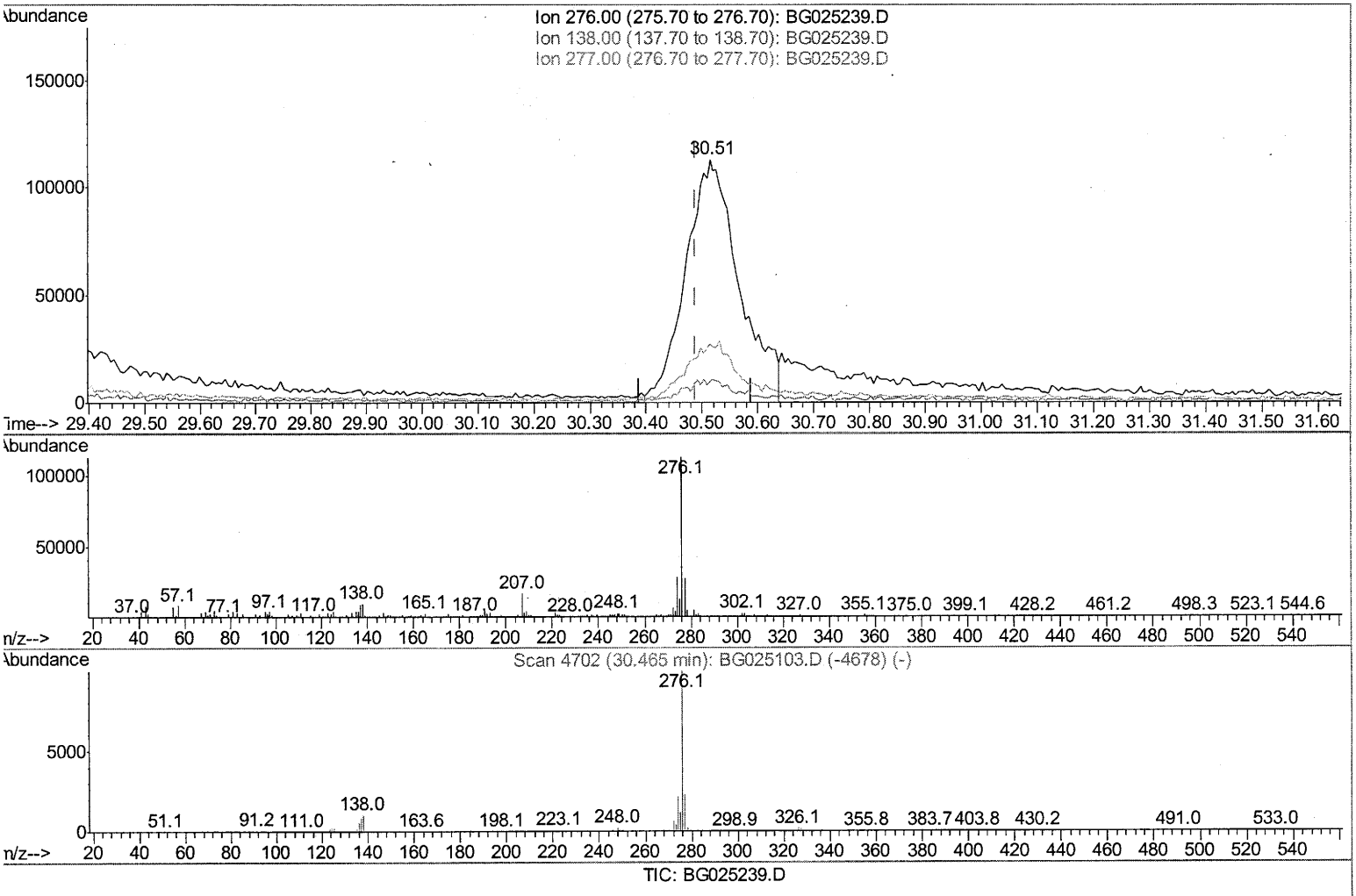
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:15:33 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**LabSampleId :**
SSTD02011

**Manual Integrations APPROVED**
UMANGI
12/16/2016 6:21:30 PM



TIC: BG025239.D

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

30.514min (+0.026) 14.68ng/ul m

response 759812

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 10.70 | 8.66 |
| 277.00 | 22.00 | 23.90 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\Data\BG121516\
Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTD02011

Manual Integrations APPROVED
UMANGI
12/16/2016 6:21:30 PM

Quant Time: Dec 16 13:20:13 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.23 | 152 | 140999 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 11.07 | 136 | 621523 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.86 | 164 | 477371 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.61 | 188 | 936413 | 20.00 | ng/ul | 0.00 |
| 75) Chrysene-d12 | 21.90 | 240 | 1097521 | 20.00 | ng/ul | 0.00 |
| 83) Perylene-d12 | 25.33 | 264 | 1046492 | 20.00 | ng/ul | 0.02 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.59 | 96 | 17043 | 6.24 | ng/uL | 0.00 |
| 5) Phenol-d5 | 7.39 | 99 | 247854 | 20.38 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d | 7.55 | 67 | 150363 | 19.98 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.77 | 132 | 175522 | 20.63 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.95 | 113 | 210113 | 20.67 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 9.42 | 128 | 91711 | 20.84 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 10.14 | 143 | 111300 | 20.29 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.68 | 165 | 213556 | 20.24 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 11.21 | 131 | 240179 | 23.16 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6 | 14.25 | 166 | 612471 | 18.65 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8 | 14.56 | 160 | 739345 | 20.56 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4 | 15.08 | 143 | 100849 | 17.87 | ng/ul | 0.02 |
| 57) Fluorene-d10 | 15.85 | 176 | 577098 | 18.67 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.98 | 200 | 121958 | 21.06 | ng/ul | 0.00 |
| 70) Anthracene-d10 | 17.71 | 188 | 807966 | 20.44 | ng/ul | 0.00 |
| 76) Pyrene-d10 | 19.98 | 212 | 905391 | 20.03 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12 | 25.09 | 264 | 897470 | 21.17 | ng/ul | 0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.62 | 88 | 20365 | 5.73 | ng/uL# | 63 |
| 4) Benzaldehyde | 7.37 | 77 | 188737 | 20.61 | ng/ul | 93 |
| 6) Phenol | 7.42 | 94 | 256161 | 20.52 | ng/ul | 94 |
| 8) Bis(2-Chloroethyl)ether | 7.65 | 93 | 177635 | 19.44 | ng/ul | 97 |
| 10) 2-Chlorophenol | 7.80 | 128 | 172342 | 20.15 | ng/ul | 97 |
| 11) 2-Methylphenol | 8.68 | 108 | 185010 | 20.13 | ng/ul | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.76 | 45 | 326688 | 21.03 | ng/ul | 96 |
| 14) Acetophenone | 9.07 | 105 | 302941 | 19.58 | ng/ul | 97 |
| 15) N-Nitroso-di-n-propylamine | 9.04 | 70 | 173814 | 19.45 | ng/ul# | 98 |
| 16) 4-Methylphenol | 9.02 | 108 | 210448 | 20.58 | ng/ul | 96 |
| 17) Hexachloroethane | 9.32 | 117 | 76867 | 20.29 | ng/ul# | 82 |
| 20) Nitrobenzene | 9.46 | 77 | 274820 | 20.32 | ng/ul | 98 |
| 21) Isophorone | 9.98 | 82 | 470447 | 18.38 | ng/ul | 98 |
| 23) 2-Nitrophenol | 10.18 | 139 | 112638 | 20.24 | ng/ul# | 85 |
| 24) 2,4-Dimethylphenol | 10.22 | 107 | 259369 | 20.38 | ng/ul | 91 |
| 25) Bis(2-Chloroethoxy)methane | 10.45 | 93 | 253832 | 19.46 | ng/ul | 94 |
| 27) 2,4-Dichlorophenol | 10.71 | 162 | 214895 | 20.97 | ng/ul | 96 |
| 28) Naphthalene | 11.11 | 128 | 572753 | 19.82 | ng/ul | 97 |
| 30) 4-Chloroaniline | 11.23 | 127 | 239031 | 22.55 | ng/ul | 97 |
| 31) Hexachlorobutadiene | 11.38 | 225 | 171911 | 19.52 | ng/ul | 89 |
| 32) Caprolactam | 12.01 | 113 | 65380m | 15.37 | ng/ul | |
| 33) 4-Chloro-3-methylphenol | 12.34 | 107 | 240539 | 19.05 | ng/ul | 98 |
| 34) 2-Methylnaphthalene | 12.71 | 142 | 443530 | 19.45 | ng/ul | 96 |

UM 12/16/16

Quantitation Report (QT Reviewed)

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Data File : BG025239.D
Acq On : 16 Dec 2016 9:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 13:20:13 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 16 05:54:49 2016
Response via : Initial Calibration

**Instrument :** BNA_G
**LabSampleId :** SSTD02011

**Manual Integrations APPROVED**
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12/16/2016 6:21:30 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.06 | 216 | 308566 | 21.45 | ng/ul | 97 |
| 37) Hexachlorocyclopentadiene | 13.03 | 237 | 109028 | 12.91 | ng/ul | 98 |
| 38) 2,4,6-Trichlorophenol | 13.30 | 196 | 190679 | 21.10 | ng/ul | 84 |
| 39) 2,4,5-Trichlorophenol | 13.39 | 196 | 207462 | 20.94 | ng/ul | 97 |
| 40) 1,1'-Biphenyl | 13.69 | 154 | 605234 | 20.91 | ng/ul | 97 |
| 41) 2-Chloronaphthalene | 13.75 | 162 | 486777 | 21.13 | ng/ul | 98 |
| 42) 2-Nitroaniline | 13.96 | 65 | 194938 | 21.62 | ng/ul | 94 |
| 44) Dimethylphthalate | 14.30 | 163 | 600136 | 18.60 | ng/ul | 99 |
| 45) 2,6-Dinitrotoluene | 14.44 | 165 | 135503 | 19.54 | ng/ul# | 93 |
| 47) Acenaphthylene | 14.59 | 152 | 703628 | 20.12 | ng/ul | 98 |
| 48) 3-Nitroaniline | 14.78 | 138 | 126393 | 21.05 | ng/ul# | 96 |
| 49) Acenaphthene | 14.93 | 153 | 503353 | 21.01 | ng/ul | 98 |
| 50) 2,4-Dinitrophenol | 14.99 | 184 | 81142 | 18.01 | ng/ul# | 84 |
| 52) 4-Nitrophenol | 15.09 | 109 | 129446 | 19.07 | ng/ul | 98 |
| 53) Dibenzofuran | 15.26 | 168 | 732475 | 19.33 | ng/ul | 99 |
| 54) 2,4-Dinitrotoluene | 15.23 | 165 | 189932 | 18.17 | ng/ul | 99 |
| 55) 2,3,4,6-Tetrachlorophenol | 15.48 | 232 | 202271 | 19.32 | ng/ul# | 96 |
| 56) Diethylphthalate | 15.65 | 149 | 621291 | 18.18 | ng/ul | 97 |
| 58) Fluorene | 15.90 | 166 | 592396 | 19.21 | ng/ul | 98 |
| 59) 4-Chlorophenyl-phenylether | 15.88 | 204 | 336077 | 19.35 | ng/ul | 90 |
| 60) 4-Nitroaniline | 15.94 | 138 | 127624 | 17.62 | ng/ul | 94 |
| 63) 4,6-Dinitro-2-methylphenol | 16.00 | 198 | 124011 | 20.68 | ng/ul# | 94 |
| 64) N-Nitrosodiphenylamine | 16.10 | 169 | 538695 | 22.36 | ng/ul | 96 |
| 65) 4-Bromophenyl-phenylether | 16.78 | 248 | 240204 | 22.71 | ng/ul | 92 |
| 66) Hexachlorobenzene | 16.91 | 284 | 264924 | 22.25 | ng/ul | 96 |
| 67) Atrazine | 17.04 | 200 | 225233 | 19.67 | ng/ul | 97 |
| 68) Pentachlorophenol | 17.26 | 266 | 147320 | 20.60 | ng/ul | 93 |
| 69) Phenanthrene | 17.65 | 178 | 924028 | 20.67 | ng/ul | 97 |
| 71) Anthracene | 17.74 | 178 | 936868 | 20.39 | ng/ul | 99 |
| 72) Carbazole | 18.01 | 167 | 797148 | 20.79 | ng/ul | 97 |
| 73) Di-n-butylphthalate | 18.52 | 149 | 950292 | 19.63 | ng/ul | 98 |
| 74) Fluoranthene | 19.64 | 202 | 1045411 | 19.68 | ng/ul | 97 |
| 77) Pyrene | 20.01 | 202 | 1063664 | 20.16 | ng/ul | 98 |
| 78) Butylbenzylphthalate | 20.85 | 149 | 423045 | 20.48 | ng/ul | 97 |
| 79) 3,3'-Dichlorobenzidine | 21.78 | 252 | 417823 | 21.84 | ng/ul | 99 |
| 80) Benzo(a)anthracene | 21.88 | 228 | 1167831 | 20.48 | ng/ul | 98 |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149 | 601568 | 21.16 | ng/ul# | 98 |
| 82) Chrysene | 21.95 | 228 | 1077471 | 20.20 | ng/ul | 98 |
| 84) Di-n-octyl phthalate | 22.99 | 149 | 1031441 | 24.28 | ng/ul | 100 |
| 85) Benzo(b)fluoranthene | 24.23 | 252 | 1121140 | 21.61 | ng/ul | 95 |
| 86) Benzo(k)fluoranthene | 24.30 | 252 | 1067785 | 21.65 | ng/ul | 99 |
| 88) Benzo(a)pyrene | 25.17 | 252 | 1065486 | 21.35 | ng/ul | 95 |
| 89) Indeno(1,2,3-cd)pyrene | 29.27 | 276 | 1019741m | 16.45 | ng/ul | |
| 90) Dibenzo(a,h)anthracene | 29.33 | 278 | 895003m | 17.13 | ng/ul | |
| 91) Benzo(g,h,i)perylene | 30.51 | 276 | 759812m | 14.68 | ng/ul | |

UM 12/16/16

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