Washington State Patrol Toxicology Laboratory Division

# QUALITY ASSURANCE PROCEDURE REVIEW FORM

Reviewer: E. McCourt Date: 10-24-12

**SERIAL NUMBER:** 949103

Technician Performing QAP: C. BIRMAN Date QAP Completed: 10-23-12

1. ✓ Current Certificate revision used and all sections completed
2. ✓ Current Worksheet revision used and all steps of QAP documented
3. ✓ Data entered corresponds to printout documents
4. ✓ Equivalent vapor concentration rounded and entered correctly on calibration factors printout
5. ✓ All printout documents are present and include Technician's signature, or initials, and date
6. ✓ All computations performed as required
7. ✓ Computations correct and include the correct number of decimal places
8. ✓ Computation method used by reviewer Excel
9. ✓ Technician signature, date and time appear on Worksheet
10. ✓ Sign and date the Certificate as Technician Reviewing and Issuing Certificate

☒ QAP - Acceptable.

☐ QAP - Not acceptable. Reasons for noncompliance:

**TECHNICIAN REVIEWING & ISSUING CERTIFICATE** **DATE** 10-24-12 **TIME** 10:29 AM

By signing this calibration review form I am documenting that I have reviewed all relevant pages of documentation in the calibration record.

WASHINGTON STATE PATROL

# DATAMASTER CALIBRATION CERTIFICATE

| | | | |
|---|---|---|---|
| **WSP LABORATORY:** | 10945 Chuckanut Dr., Burlington, WA 98233 | **CUSTOMER NAME:** | Whatcom County Jail |
| **DATE OF CALIBRATION:** | 10/23/2012 | **CUSTOMER ADDRESS:** | 311 Grand Avenue |
| **CALIBRATED ITEM:** | NPAS DATAMASTER | | Bellingham, WA 978225 |
| **SERIAL NUMBER:** | 949103 | | Check if calibration occurred at customer address: ☐ |
| **CAL PROCEDURE USED:** | WSP-TLD Technical Manual, Chapter 5.0 Quality Assurance Procedure | | |

| **CALIBRATION:** | **Water** | **Ethanol** | **As Found** | **As Found Results g/210L** | **CONDITION OF CALIBRATED ITEM:** |
|---|---|---|---|---|---|
| **QAP Batch #:** | N/A | 12028 | 12028 | 0.077 | GOOD |
| **Simulator #:** | G6922 | DR2042 | DR2042 | | |
| **Sim Thermometer#:** | B95553 | DR2042 | DR2042 | | |

## CERTIFICATION RESULTS (g/210L)

| | **0.04** | **0.08** | **0.10** | **0.15** |
|---|---|---|---|---|
| **Simulator #:** | **DR4534** | **DR2042** | **DR4968** | **DR4990** |
| **Sim Therm#:** | **DR4534** | **DR2042** | **DR4968** | **DR4990** |
| **QAP Batch#:** | **12008** | **12028** | **12010** | **12011** |
| **Reference Value:** | **0.0401** | **0.0823** | **0.1008** | **0.1509** |
| | 0.041 | 0.081 | 0.102 | 0.151 |
| | 0.041 | 0.081 | 0.103 | 0.153 |
| | 0.041 | 0.081 | 0.103 | 0.153 |
| | 0.041 | 0.082 | 0.103 | 0.154 |
| | 0.042 | 0.082 | 0.103 | 0.153 |
| | 0.041 | 0.081 | 0.104 | 0.154 |
| | 0.041 | 0.082 | 0.104 | 0.154 |
| | 0.041 | 0.081 | 0.104 | 0.153 |
| | 0.041 | 0.082 | 0.103 | 0.154 |
| | 0.041 | 0.081 | 0.104 | 0.154 |
| Mean: | 0.0411 | 0.0814 | 0.1033 | 0.1533 |
| SD: | 0.0003 | 0.0005 | 0.0007 | 0.0009 |
| Bias %: | 2.49 | -1.09 | 2.48 | 1.59 |
| CV %: | 0.73 | 0.61 | 0.68 | 0.59 |
| $CV^2_{DM}$: | 0.0000059199 | 0.0000040246 | 0.0000042691 | 0.0000038296 |
| Combined STD Uncertainty of QAP SOL: | 0.0005 | 0.0009 | 0.0013 | 0.0018 |
| Combined Standard Uncertainty (±): | 0.0005 | 0.0009 | 0.0013 | 0.0019 |
| Expanded Uncertainty (±): | 0.0010 | 0.0018 | 0.0026 | 0.0038 |

(k=2, 95% Confidence Level)

| | | | |
|---|---|---|---|
| Cam Birman | | | 10/23/2012 |
| **TECHNICIAN PERFORMING CALIBRATION** | **SIGNATURE** | | **DATE CALIBRATION COMPLETED** |
| E. McCourt | Breath Test Technician | | 10/24/2012 |
| **TECHNICIAN REVIEWING & ISSUING CERTIFICATE** | **TITLE** | **SIGNATURE** | **DATE ISSUED** |

**TRACEABILITY INFORMATION**

This calibration is traceable to NIST through an unbroken chain of comparisons. The Datamaster/ Datamaster CDM is calibrated using a QAP Solution prepared by the Washington State Toxicology Laboratory. The QAP solution measurements are traceable to the results of the ethanol control CRM whose properties are traceable through its Certificate of Analysis to the NIST ethanol standard.

Temperatures are measured at 34.0±0.2° centigrade using Guth model 34C or 2100 simulators equipped with mercury in glass thermometers or digital thermometers, respectively. Both types are certified against A Guth-Eutechnics 4300 digital thermometer which is calibrated by ICL Calibration Laboratories that provides a certificate showing that the measurements are traceable to NIST.

Voltages are measured using a Fluke 70 III multi-meter which is calibrated by Fluke Corporation that provides a certificate showing that DC voltage measurements are traceable to an international voltage standard.

This certificate applies only to the item being calibrated and shall not be reproduced except in full, without the written approval of the WSP Toxicology Laboratory Division.

Washington State Patrol Toxicology Laboratory Division

# QUALITY ASSURANCE PROCEDURE WORKSHEET

SERIAL NUMBER: 949103
Technician: BIRMAN
Date/Time Began: 10-23-12 / 1400
Location: BURLINGTON LAB
Date/Time Ended: 10-23-12 / 1656

As Found – Instrument Assessment [X] Check if Instrument Assessment N/A [ ]

| CALIBRATION | As Found | Water | Ethanol |
|---|---|---|---|
| QAP Batch # | 12028 | *Not Applicable* | 12028 |
| Simulator # | DR2042 | G6922 | DR2042 |
| Sim Thermometer # | DR2042 | B95553 | DR2042 |

1. Electrical Checks Multi-meter Serial Number: 705308 46

[X] SCB [X] DetBias [X] CPU (*If Applicable*)
[X] DetClr [X] MTR [X] RFI

2. Certification Procedure

| | 0.04 | 0.08 | 0.10 | 0.15 |
|---|---|---|---|---|
| Reference Value | 0.0401 | 0.0823 | 0.1008 | 0.1509 |
| QAP Batch # | 12008 | 12028 | 12010 | 12011 |
| Simulator # | DR4534 | DR2042 | DR4968 | DR4990 |
| Simulator Thermometer # | DR4534 | DR2042 | DR4968 | DR4990 |
| Simulator Thermometer Certified? | [X] | [X] | [X] | [X] |
| Sim Temp 34.0 ±0.2 °C Before? | [X] | [X] | [X] | [X] |
| Sim Temp 34.0 ±0.2 °C After? | [X] | [X] | [X] | [X] |
| Mean | 0.0411 | 0.0814 | 0.1033 | 0.1533 |
| SD | 0.0003 | 0.0005 | 0.0007 | 0.0009 |
| Bias % | 2.49 | -1.09 | 2.48 | 1.59 |
| CV % | 0.73 | 0.61 | 0.68 | 0.59 |

3. Calculation Method Used: Datamaster and CALCULATOR

| | Sim Sol'n Batch # | Simulator # | Sim Thermometer # |
|---|---|---|---|
| 4. [X] Complete Breath Test | 12028 | DR2042 | DR2042 |
| 5. [X] Interference Test | 12028 | G6850 | B95984 |

6. [X] Invalid Sample 7. [X] RFI Test 8. [X] Diagnostic Test

9. [X] Complies with all elements of Quality Assurance Procedure

10. [ ] Does not comply with all elements of Quality Assurance Procedure

Reason:

CAM BIRMAN
TECHNICIAN PERFORMING CALIBRATION

10-23-12 / 1656
DATE TIME

Washington State Patrol
Breath Test Program

**Breath alcohol measurement uncertainty** **Instrument 949103** **Calibration Date 10/23/2012**

| Measured Value | Lower 99% | Upper 99% | Measured Value | Lower 99% | Upper 99% | Measured Value | Lower 99% | Upper 99% | Measured Value | Lower 99% | Upper 99% |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.020 | 0.0154 | 0.0236 | 0.060 | 0.0524 | 0.0647 | 0.100 | 0.0893 | 0.1058 | 0.140 | 0.1262 | 0.1470 |
| 0.021 | 0.0164 | 0.0246 | 0.061 | 0.0534 | 0.0657 | 0.101 | 0.0902 | 0.1069 | 0.141 | 0.1271 | 0.1481 |
| 0.022 | 0.0173 | 0.0256 | 0.062 | 0.0543 | 0.0667 | 0.102 | 0.0912 | 0.1079 | 0.142 | 0.1280 | 0.1491 |
| 0.023 | 0.0182 | 0.0267 | 0.063 | 0.0552 | 0.0677 | 0.103 | 0.0921 | 0.1089 | 0.143 | 0.1290 | 0.1501 |
| 0.024 | 0.0191 | 0.0277 | 0.064 | 0.0561 | 0.0688 | 0.104 | 0.0930 | 0.1100 | 0.144 | 0.1299 | 0.1512 |
| 0.025 | 0.0201 | 0.0287 | 0.065 | 0.0570 | 0.0698 | 0.105 | 0.0939 | 0.1110 | 0.145 | 0.1308 | 0.1522 |
| 0.026 | 0.0210 | 0.0297 | 0.066 | 0.0580 | 0.0708 | 0.106 | 0.0949 | 0.1120 | 0.146 | 0.1317 | 0.1532 |
| 0.027 | 0.0219 | 0.0308 | 0.067 | 0.0589 | 0.0719 | 0.107 | 0.0958 | 0.1130 | 0.147 | 0.1326 | 0.1542 |
| 0.028 | 0.0228 | 0.0318 | 0.068 | 0.0598 | 0.0729 | 0.108 | 0.0967 | 0.1141 | 0.148 | 0.1336 | 0.1553 |
| 0.029 | 0.0238 | 0.0328 | 0.069 | 0.0607 | 0.0739 | 0.109 | 0.0976 | 0.1151 | 0.149 | 0.1345 | 0.1563 |
| 0.030 | 0.0247 | 0.0339 | 0.070 | 0.0617 | 0.0749 | 0.110 | 0.0985 | 0.1161 | 0.150 | 0.1368 | 0.1585 |
| 0.031 | 0.0256 | 0.0349 | 0.071 | 0.0626 | 0.0760 | 0.111 | 0.0995 | 0.1172 | 0.151 | 0.1377 | 0.1596 |
| 0.032 | 0.0265 | 0.0359 | 0.072 | 0.0635 | 0.0770 | 0.112 | 0.1004 | 0.1182 | 0.152 | 0.1386 | 0.1606 |
| 0.033 | 0.0275 | 0.0369 | 0.073 | 0.0644 | 0.0780 | 0.113 | 0.1013 | 0.1192 | 0.153 | 0.1396 | 0.1616 |
| 0.034 | 0.0284 | 0.0380 | 0.074 | 0.0654 | 0.0790 | 0.114 | 0.1022 | 0.1203 | 0.154 | 0.1405 | 0.1627 |
| 0.035 | 0.0293 | 0.0390 | 0.075 | 0.0663 | 0.0801 | 0.115 | 0.1032 | 0.1213 | 0.155 | 0.1414 | 0.1637 |
| 0.036 | 0.0302 | 0.0400 | 0.076 | 0.0672 | 0.0811 | 0.116 | 0.1041 | 0.1223 | 0.156 | 0.1424 | 0.1647 |
| 0.037 | 0.0312 | 0.0410 | 0.077 | 0.0681 | 0.0821 | 0.117 | 0.1050 | 0.1233 | 0.157 | 0.1433 | 0.1658 |
| 0.038 | 0.0321 | 0.0421 | 0.078 | 0.0690 | 0.0832 | 0.118 | 0.1059 | 0.1244 | 0.158 | 0.1442 | 0.1668 |
| 0.039 | 0.0330 | 0.0431 | 0.079 | 0.0700 | 0.0842 | 0.119 | 0.1068 | 0.1254 | 0.159 | 0.1452 | 0.1679 |
| 0.040 | 0.0339 | 0.0441 | 0.080 | 0.0737 | 0.0881 | 0.120 | 0.1078 | 0.1264 | 0.160 | 0.1461 | 0.1689 |
| 0.041 | 0.0349 | 0.0451 | 0.081 | 0.0746 | 0.0891 | 0.121 | 0.1087 | 0.1275 | 0.161 | 0.1470 | 0.1699 |
| 0.042 | 0.0358 | 0.0462 | 0.082 | 0.0756 | 0.0902 | 0.122 | 0.1096 | 0.1285 | 0.162 | 0.1480 | 0.1710 |
| 0.043 | 0.0367 | 0.0472 | 0.083 | 0.0766 | 0.0913 | 0.123 | 0.1105 | 0.1295 | 0.163 | 0.1489 | 0.1720 |
| 0.044 | 0.0376 | 0.0482 | 0.084 | 0.0775 | 0.0923 | 0.124 | 0.1114 | 0.1306 | 0.164 | 0.1498 | 0.1730 |
| 0.045 | 0.0386 | 0.0492 | 0.085 | 0.0785 | 0.0934 | 0.125 | 0.1124 | 0.1316 | 0.165 | 0.1507 | 0.1741 |
| 0.046 | 0.0395 | 0.0503 | 0.086 | 0.0794 | 0.0945 | 0.126 | 0.1133 | 0.1326 | 0.166 | 0.1517 | 0.1751 |
| 0.047 | 0.0404 | 0.0513 | 0.087 | 0.0804 | 0.0955 | 0.127 | 0.1142 | 0.1336 | 0.167 | 0.1526 | 0.1762 |
| 0.048 | 0.0413 | 0.0523 | 0.088 | 0.0813 | 0.0966 | 0.128 | 0.1151 | 0.1347 | 0.168 | 0.1535 | 0.1772 |
| 0.049 | 0.0423 | 0.0534 | 0.089 | 0.0823 | 0.0977 | 0.129 | 0.1161 | 0.1357 | 0.169 | 0.1545 | 0.1782 |
| 0.050 | 0.0432 | 0.0544 | 0.090 | 0.0833 | 0.0987 | 0.130 | 0.1170 | 0.1367 | 0.170 | 0.1554 | 0.1793 |
| 0.051 | 0.0441 | 0.0554 | 0.091 | 0.0842 | 0.0998 | 0.131 | 0.1179 | 0.1378 | 0.171 | 0.1563 | 0.1803 |
| 0.052 | 0.0450 | 0.0564 | 0.092 | 0.0852 | 0.1008 | 0.132 | 0.1188 | 0.1388 | 0.172 | 0.1573 | 0.1814 |
| 0.053 | 0.0460 | 0.0575 | 0.093 | 0.0861 | 0.1019 | 0.133 | 0.1197 | 0.1398 | 0.173 | 0.1582 | 0.1824 |
| 0.054 | 0.0469 | 0.0585 | 0.094 | 0.0871 | 0.1030 | 0.134 | 0.1207 | 0.1409 | 0.174 | 0.1591 | 0.1834 |
| 0.055 | 0.0478 | 0.0595 | 0.095 | 0.0881 | 0.1040 | 0.135 | 0.1216 | 0.1419 | 0.175 | 0.1601 | 0.1845 |
| 0.056 | 0.0487 | 0.0605 | 0.096 | 0.0890 | 0.1051 | 0.136 | 0.1225 | 0.1429 | 0.176 | 0.1610 | 0.1855 |
| 0.057 | 0.0497 | 0.0616 | 0.097 | 0.0900 | 0.1062 | 0.137 | 0.1234 | 0.1439 | 0.177 | 0.1619 | 0.1865 |
| 0.058 | 0.0506 | 0.0626 | 0.098 | 0.0909 | 0.1072 | 0.138 | 0.1244 | 0.1450 | 0.178 | 0.1629 | 0.1876 |
| 0.059 | 0.0515 | 0.0636 | 0.099 | 0.0919 | 0.1083 | 0.139 | 0.1253 | 0.1460 | 0.179 | 0.1638 | 0.1886 |

All values are in g/210L

BAMU201011A

Washington State Patrol
Breath Test Program

**Breath alcohol measurement uncertainty** **Instrument 949103** **Calibration Date 10/23/2012**

| Measured Value | Lower 99% | Upper 99% | Measured Value | Lower 99% | Upper 99% | Measured Value | Lower 99% | Upper 99% | Measured Value | Lower 99% | Upper 99% |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.180 | 0.1647 | 0.1897 | 0.220 | 0.2019 | 0.2312 | 0.260 | 0.2392 | 0.2727 | 0.300 | 0.2764 | 0.3142 |
| 0.181 | 0.1656 | 0.1907 | 0.221 | 0.2029 | 0.2322 | 0.261 | 0.2401 | 0.2737 | 0.301 | 0.2773 | 0.3153 |
| 0.182 | 0.1666 | 0.1917 | 0.222 | 0.2038 | 0.2332 | 0.262 | 0.2410 | 0.2748 | 0.302 | 0.2782 | 0.3163 |
| 0.183 | 0.1675 | 0.1928 | 0.223 | 0.2047 | 0.2343 | 0.263 | 0.2420 | 0.2758 | 0.303 | 0.2792 | 0.3173 |
| 0.184 | 0.1684 | 0.1938 | 0.224 | 0.2057 | 0.2353 | 0.264 | 0.2429 | 0.2769 | 0.304 | 0.2801 | 0.3184 |
| 0.185 | 0.1694 | 0.1948 | 0.225 | 0.2066 | 0.2364 | 0.265 | 0.2438 | 0.2779 | 0.305 | 0.2810 | 0.3194 |
| 0.186 | 0.1703 | 0.1959 | 0.226 | 0.2075 | 0.2374 | 0.266 | 0.2447 | 0.2789 | 0.306 | 0.2820 | 0.3205 |
| 0.187 | 0.1712 | 0.1969 | 0.227 | 0.2085 | 0.2384 | 0.267 | 0.2457 | 0.2800 | 0.307 | 0.2829 | 0.3215 |
| 0.188 | 0.1722 | 0.1980 | 0.228 | 0.2094 | 0.2395 | 0.268 | 0.2466 | 0.2810 | 0.308 | 0.2838 | 0.3225 |
| 0.189 | 0.1731 | 0.1990 | 0.229 | 0.2103 | 0.2405 | 0.269 | 0.2475 | 0.2820 | 0.309 | 0.2848 | 0.3236 |
| 0.190 | 0.1740 | 0.2000 | 0.230 | 0.2112 | 0.2416 | 0.270 | 0.2485 | 0.2831 | 0.310 | 0.2857 | 0.3246 |
| 0.191 | 0.1750 | 0.2011 | 0.231 | 0.2122 | 0.2426 | 0.271 | 0.2494 | 0.2841 | 0.311 | 0.2866 | 0.3256 |
| 0.192 | 0.1759 | 0.2021 | 0.232 | 0.2131 | 0.2436 | 0.272 | 0.2503 | 0.2852 | 0.312 | 0.2875 | 0.3267 |
| 0.193 | 0.1768 | 0.2031 | 0.233 | 0.2140 | 0.2447 | 0.273 | 0.2513 | 0.2862 | 0.313 | 0.2885 | 0.3277 |
| 0.194 | 0.1777 | 0.2042 | 0.234 | 0.2150 | 0.2457 | 0.274 | 0.2522 | 0.2872 | 0.314 | 0.2894 | 0.3288 |
| 0.195 | 0.1787 | 0.2052 | 0.235 | 0.2159 | 0.2467 | 0.275 | 0.2531 | 0.2883 | 0.315 | 0.2903 | 0.3298 |
| 0.196 | 0.1796 | 0.2063 | 0.236 | 0.2168 | 0.2478 | 0.276 | 0.2541 | 0.2893 | 0.316 | 0.2913 | 0.3308 |
| 0.197 | 0.1805 | 0.2073 | 0.237 | 0.2178 | 0.2488 | 0.277 | 0.2550 | 0.2903 | 0.317 | 0.2922 | 0.3319 |
| 0.198 | 0.1815 | 0.2083 | 0.238 | 0.2187 | 0.2499 | 0.278 | 0.2559 | 0.2914 | 0.318 | 0.2931 | 0.3329 |
| 0.199 | 0.1824 | 0.2094 | 0.239 | 0.2196 | 0.2509 | 0.279 | 0.2568 | 0.2924 | 0.319 | 0.2941 | 0.3340 |
| 0.200 | 0.1833 | 0.2104 | 0.240 | 0.2206 | 0.2519 | 0.280 | 0.2578 | 0.2935 | 0.320 | 0.2950 | 0.3350 |
| 0.201 | 0.1843 | 0.2115 | 0.241 | 0.2215 | 0.2530 | 0.281 | 0.2587 | 0.2945 | 0.321 | 0.2959 | 0.3360 |
| 0.202 | 0.1852 | 0.2125 | 0.242 | 0.2224 | 0.2540 | 0.282 | 0.2596 | 0.2955 | 0.322 | 0.2969 | 0.3371 |
| 0.203 | 0.1861 | 0.2135 | 0.243 | 0.2233 | 0.2551 | 0.283 | 0.2606 | 0.2966 | 0.323 | 0.2978 | 0.3381 |
| 0.204 | 0.1870 | 0.2146 | 0.244 | 0.2243 | 0.2561 | 0.284 | 0.2615 | 0.2976 | 0.324 | 0.2987 | 0.3391 |
| 0.205 | 0.1880 | 0.2156 | 0.245 | 0.2252 | 0.2571 | 0.285 | 0.2624 | 0.2987 | 0.325 | 0.2996 | 0.3402 |
| 0.206 | 0.1889 | 0.2166 | 0.246 | 0.2261 | 0.2582 | 0.286 | 0.2634 | 0.2997 | 0.326 | 0.3006 | 0.3412 |
| 0.207 | 0.1898 | 0.2177 | 0.247 | 0.2271 | 0.2592 | 0.287 | 0.2643 | 0.3007 | 0.327 | 0.3015 | 0.3423 |
| 0.208 | 0.1908 | 0.2187 | 0.248 | 0.2280 | 0.2602 | 0.288 | 0.2652 | 0.3018 | 0.328 | 0.3024 | 0.3433 |
| 0.209 | 0.1917 | 0.2198 | 0.249 | 0.2289 | 0.2613 | 0.289 | 0.2661 | 0.3028 | 0.329 | 0.3034 | 0.3443 |
| 0.210 | 0.1926 | 0.2208 | 0.250 | 0.2299 | 0.2623 | 0.290 | 0.2671 | 0.3038 | 0.330 | 0.3043 | 0.3454 |
| 0.211 | 0.1936 | 0.2218 | 0.251 | 0.2308 | 0.2634 | 0.291 | 0.2680 | 0.3049 | 0.331 | 0.3052 | 0.3464 |
| 0.212 | 0.1945 | 0.2229 | 0.252 | 0.2317 | 0.2644 | 0.292 | 0.2689 | 0.3059 | 0.332 | 0.3062 | 0.3475 |
| 0.213 | 0.1954 | 0.2239 | 0.253 | 0.2326 | 0.2654 | 0.293 | 0.2699 | 0.3070 | 0.333 | 0.3071 | 0.3485 |
| 0.214 | 0.1964 | 0.2249 | 0.254 | 0.2336 | 0.2665 | 0.294 | 0.2708 | 0.3080 | 0.334 | 0.3080 | 0.3495 |
| 0.215 | 0.1973 | 0.2260 | 0.255 | 0.2345 | 0.2675 | 0.295 | 0.2717 | 0.3090 | 0.335 | 0.3089 | 0.3506 |
| 0.216 | 0.1982 | 0.2270 | 0.256 | 0.2354 | 0.2685 | 0.296 | 0.2727 | 0.3101 | 0.336 | 0.3099 | 0.3516 |
| 0.217 | 0.1991 | 0.2281 | 0.257 | 0.2364 | 0.2696 | 0.297 | 0.2736 | 0.3111 | 0.337 | 0.3108 | 0.3526 |
| 0.218 | 0.2001 | 0.2291 | 0.258 | 0.2373 | 0.2706 | 0.298 | 0.2745 | 0.3122 | 0.338 | 0.3117 | 0.3537 |
| 0.219 | 0.2010 | 0.2301 | 0.259 | 0.2382 | 0.2717 | 0.299 | 0.2755 | 0.3132 | 0.339 | 0.3127 | 0.3547 |

All values are in g/210L

BAMU201011A