Bam Labs

ADDENDUM TEST REPORT TO 94232-14

Household Air Mattress Inflator Model: SIQ XX00DR

Tested To The Following Standards:

FCC Part 15 Subpart C Sections 15.207, 15.247 and RSS 210 Issue 8

Report No.: 94232-14A

Date of issue: February 7, 2014



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Bam Labs 901 Campisi Way Campbell, CA 95008 **REPORT PREPARED BY:**

Morgan Tramontin CKC Laboratories, Inc. 5046 Sierra Pines Drive Mariposa, CA 95338

Representative: Todd Austin / P. Carter - SEL Customer Reference Number: SELc350 Project Number: 94232

DATE OF EQUIPMENT RECEIPT: DATE(S) OF TESTING: August 20, 2013 August 20-23, 2013

Revision History

Original: Testing of the Household Air Mattress Inflator, SIQ XX00DR to FCC Part 15 Subpart C Sections 15.207, 15.247 and RSS 210 Issue 8.

Addendum A: To correct the gain of the antenna in the test conditions for all sections, re-calculated the RF power and power density and corrected 138VVDC to 138V in the test conditions notes of section 15.31(e) Voltage Variations.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.

Steve -7 Belon

Steve Behm Director of Quality Assurance & Engineering Services CKC Laboratories, Inc.



Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S): CKC Laboratories, Inc. 1120 Fulton Place Fremont, CA 94539

Software Versions

| CKC Laboratories Proprietary Software | Version |
|---------------------------------------|---------|
| EMITest Emissions | 5.00.14 |
| Immunity | 5.00.07 |

Site Registration & Accreditation Information

| Location | CB # | TAIWAN | CANADA | FCC | JAPAN |
|----------|--------|----------------|---------|--------|--------|
| Fremont | US0082 | SL2-IN-E-1148R | 3082B-1 | 958979 | A-0149 |



SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C

| Description | Test Procedure/Method | Results |
|--------------------------------------|--|---------|
| | | |
| Conducted Emissions | FCC Part 15 Subpart C Section 15.207 / ANSI C63.4 (2003) | Pass |
| | | |
| RF Power Output | FCC Part 15 Subpart C Section 15.247(b)(3) / DA 00-705 | Pass |
| | | |
| Voltage Variation | FCC Part 15 Subpart C Section 15.31(e)(m) | Pass |
| | | |
| -6dBc Occupied Bandwidth | FCC Part 15 Subpart C Section 15.247(a)(2) / DA 00-705 | Pass |
| | | |
| 99% OBW and -6dB EBW | RSS 210 Issue 8 / RSS GEN Section 4.6 | Pass |
| | | |
| Field Strength of Spurious Emissions | FCC Part 15 Subpart C Section 15.249(d) / 15.205 / DA 00-705 | Pass |
| | | |
| Band Edge | ITU-R 55/1 / DA 00-705 | Pass |
| | | |
| Power Spectral Density | FCC Part 15 Subpart C 15.247(e) / DA 00-705 | Pass |
| | | |

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions

None



EQUIPMENT UNDER TEST (EUT)

Note: The data represented in this report identifies the manufacturer of the equipment as known at the time of testing to be BAM Labs, the company which created the design specifications and produced the product for testing. The manufacturer declares that the party responsible for the equipment herein identified is Select Comfort as shown on the front of this report.

EQUIPMENT UNDER TEST

Household Air Mattress Inflator

Manuf:Select Comfort CorporationModel:SIQ XX00DRSerial:CC 04 B4 00 00 8F

PERIPHERAL DEVICES

The EUT was not tested with peripheral devices.



FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CFR 15C requirements for Unlicensed Radio Frequency Devices, Subpart C - Intentional Radiators.

15.207 AC Conducted Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs |
|----------------|---------------------------------|
| Specification: | 15.207 AC Mains - Average |
| Work Order #: | 94232 |
| Test Type: | Conducted Emissions |
| Equipment: | Household Air Mattress Inflator |
| Manufacturer: | Bam Labs |
| Model: | SIQ XX00DR |
| S/N: | CC 04 B4 00 00 8F |

| Date: | 8/20/2013 |
|------------|----------------------|
| Time: | 9:24:06 AM |
| Sequence#: | 1 |
| Tested By: | Hieu Song Nguyenpham |
| | 120V 60Hz |

Test Equipment:

| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
|----|----------|-------------------|--------------|------------------|--------------|
| T1 | ANP01211 | Attenuator | PE7002-10 | 4/2/2013 | 4/2/2015 |
| T2 | ANP00880 | Cable | RG214U | 7/30/2012 | 7/30/2014 |
| T3 | ANP05300 | Cable | RG214/U | 3/25/2013 | 3/25/2015 |
| T4 | AN00493 | 50uH LISN-L1 (L) | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| | AN00493 | 50uH LISN-L(2) N | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |
| T5 | ANP05258 | High Pass Filter | HE9615-150K- | 12/6/2012 | 12/6/2014 |
| | | | 50-720B | | |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------|--------------|------------|-------------------|
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |
| Support Devices: | | | |
| Function | Manufacturer | Model # | S/N |



Test Conditions / Notes:

Conducted Emission Frequency Range: 150kHz to 30MHz

High Clock: 32 MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C Humidity: 39% Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ

RF output power of the chip =OdBm Gain of the antenna=1dBi

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: BlueTooth is operated only.

Ext Attn: 0 dB Reading listed by margin. Test Lead: Black Measurement Data: T4 Freq Rdng T1 T2 T3 Dist Corr Spec Margin Polar # T5 MHz dBµV dB dB dB dB Table dBµV dBµV dB Ant +0.0+0.135.3 -10.7 1 2.281M 25.4 +9.6+0.1+0.046.0 Black +0.12 2.927M 24.8 +0.2+0.046.0 -11.2 +9.6+0.0+0.134.8 Black +0.13 2.880M 24.6 +9.6+0.2+0.0+0.1+0.034.6 46.0 -11.4 Black +0.14 12.598M 28.3 +9.6+0.3+0.1+0.2+0.038.6 50.0 -11.4 Black +0.12.332M 24.5 +0.1+0.0+0.1+0.034.4 46.0 -11.6 5 +9.6Black +0.16 3.569M 24.3 +9.6+0.2+0.1+0.1+0.034.4 46.0 -11.6 Black +0.14.216M 24.3 +9.6 +0.234.4 46.0 -11.6 7 +0.1+0.1+0.0Black +0.1+9.78 2.378M 24.3 +0.1+0.0+0.1+0.034.3 46.0 -11.7 Black +0.19 1.587M 24.1 +9.7+0.1+0.0+0.1+0.034.1 46.0 -11.9 Black +0.110 3.025M 24.1 +9.6+0.2+0.0+0.1+0.034.1 46.0 -11.9 Black +0.111 3.620M 24.0 +0.234.1 46.0 -11.9 +9.6+0.1+0.1+0.0Black +0.112 46.0 -12.0 2.234M 24.1 +9.6+0.1+0.0+0.1+0.034.0 Black +0.1



| 13 | 3.522M | 24.0 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 34.0 | 46.0 | -12.0 | Black |
|----|---------|------|--------------|------|------|------|------|------|------|-------|-------|
| 14 | 2.974M | 23.9 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 33.9 | 46.0 | -12.1 | Black |
| 15 | 12.652M | 27.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.9 | 50.0 | -12.1 | Black |
| 16 | 3.420M | 23.8 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 33.8 | 46.0 | -12.2 | Black |
| 17 | 12.301M | 27.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.7 | 50.0 | -12.3 | Black |
| 18 | 3.140M | 23.6 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 33.6 | 46.0 | -12.4 | Black |
| 19 | 1.638M | 23.5 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 33.5 | 46.0 | -12.5 | Black |
| 20 | 3.671M | 23.3 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 33.4 | 46.0 | -12.6 | Black |
| 21 | 12.256M | 27.1 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.4 | 50.0 | -12.6 | Black |
| 22 | 2.774M | 23.3 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 33.3 | 46.0 | -12.7 | Black |
| 23 | 12.355M | 27.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.3 | 50.0 | -12.7 | Black |
| 24 | 12.454M | 27.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.3 | 50.0 | -12.7 | Black |
| 25 | 2.196M | 23.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 33.1 | 46.0 | -12.9 | Black |
| 26 | 3.314M | 23.0 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 33.1 | 46.0 | -12.9 | Black |
| 27 | 3.710M | 22.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 33.0 | 46.0 | -13.0 | Black |
| 28 | 2.425M | 22.9 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| 29 | 1.732M | 23.0 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| 30 | 1.685M | 23.0 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| 31 | 12.499M | 26.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.9 | 50.0 | -13.1 | Black |
| 32 | 4.862M | 22.8 | +9.5 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| 33 | 4.262M | 22.8 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| 34 | 2.021M | 22.9 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.8 | 46.0 | -13.2 | Black |
| 35 | 2.842M | 22.8 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 32.8 | 46.0 | -13.2 | Black |
| 36 | 12.553M | 26.5 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.8 | 50.0 | -13.2 | Black |
| 37 | 2.451M | 22.7 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.7 | 46.0 | -13.3 | Black |
| 38 | 11.959M | 26.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.7 | 50.0 | -13.3 | Black |



| 39 | 3.352M | 22.6 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.6 | 46.0 | -13.4 | Black |
|----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 40 | 3.395M | 22.6 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.6 | 46.0 | -13.4 | Black |
| 41 | 1.549M | 22.6 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.5 | 46.0 | -13.5 | Black |
| 42 | 792.123k | 22.5 | +9.6 +0.2 | +0.1 | +0.0 | +0.1 | +0.0 | 32.5 | 46.0 | -13.5 | Black |
| 43 | 2.668M | 22.6 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.5 | 46.0 | -13.5 | Black |
| 44 | 3.480M | 22.5 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.5 | 46.0 | -13.5 | Black |
| 45 | 3.055M | 22.5 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 32.5 | 46.0 | -13.5 | Black |
| 46 | 3.965M | 22.3 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.4 | 46.0 | -13.6 | Black |
| 47 | 3.271M | 22.3 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.4 | 46.0 | -13.6 | Black |
| 48 | 4.173M | 22.3 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.4 | 46.0 | -13.6 | Black |
| 49 | 12.211M | 26.1 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.4 | 50.0 | -13.6 | Black |
| 50 | 12.103M | 26.1 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.4 | 50.0 | -13.6 | Black |
| 51 | 862.662k | 22.4 | +9.6 +0.2 | +0.1 | +0.0 | +0.1 | +0.0 | 32.4 | 46.0 | -13.6 | Black |
| 52 | 2.629M | 22.5 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.4 | 46.0 | -13.6 | Black |
| 53 | 1.983M | 22.4 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.3 | 46.0 | -13.7 | Black |
| 54 | 1.120M | 22.4 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.3 | 46.0 | -13.7 | Black |
| 55 | 945.249k | 22.3 | +9.6 +0.2 | +0.1 | +0.0 | +0.1 | +0.0 | 32.3 | 46.0 | -13.7 | Black |
| 56 | 12.004M | 26.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.3 | 50.0 | -13.7 | Black |
| 57 | 4.900M | 22.2 | +9.5 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 32.3 | 46.0 | -13.7 | Black |
| 58 | 3.442M | 22.3 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.3 | 46.0 | -13.7 | Black |
| 59 | 1.077M | 22.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.2 | 46.0 | -13.8 | Black |
| 60 | 1.043M | 22.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.2 | 46.0 | -13.8 | Black |
| 61 | 12.995M | 25.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.2 | 50.0 | -13.8 | Black |
| 62 | 12.950M | 25.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.2 | 50.0 | -13.8 | Black |
| 63 | 1.804M | 22.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.1 | 46.0 | -13.9 | Black |
| 64 | 541.237k | 22.3 | +9.5 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.1 | 46.0 | -13.9 | Black |



| 65 | 2.412M | 22.1 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.1 | 46.0 | -13.9 | Black |
|----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 66 | 12.752M | 25.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.1 | 50.0 | -13.9 | Black |
| 67 | 12.400M | 25.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.1 | 50.0 | -13.9 | Black |
| 68 | 3.999M | 21.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 69 | 2.128M | 22.1 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 70 | 13.292M | 25.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.0 | 50.0 | -14.0 | Black |
| 71 | 4.611M | 21.7 | +9.7 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 72 | 992.029k | 22.0 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.9 | 46.0 | -14.1 | Black |
| 73 | 2.753M | 21.9 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 31.9 | 46.0 | -14.1 | Black |
| 74 | 3.225M | 21.8 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 31.8 | 46.0 | -14.2 | Black |
| 75 | 11.905M | 25.5 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.8 | 50.0 | -14.2 | Black |
| 76 | 4.041M | 21.6 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 77 | 4.815M | 21.6 | +9.5 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 78 | 3.101M | 21.7 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 79 | 894.216k | 21.7 | +9.6 +0.2 | +0.1 | +0.0 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 80 | 1.766M | 21.8 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 81 | 11.851M | 25.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.7 | 50.0 | -14.3 | Black |
| 82 | 12.860M | 25.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.7 | 50.0 | -14.3 | Black |
| 83 | 11.716M | 25.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.7 | 50.0 | -14.3 | Black |
| 84 | 11.607M | 25.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.7 | 50.0 | -14.3 | Black |
| 85 | 11.661M | 25.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.7 | 50.0 | -14.3 | Black |
| 86 | 2.710M | 21.7 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.6 | 46.0 | -14.4 | Black |
| 87 | 829.210k | 21.6 | +9.6 +0.2 | +0.1 | +0.0 | +0.1 | +0.0 | 31.6 | 46.0 | -14.4 | Black |
| 88 | 4.016M | 21.5 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.6 | 46.0 | -14.4 | Black |
| 89 | 13.148M | 25.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.6 | 50.0 | -14.4 | Black |
| 90 | 12.905M | 25.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.6 | 50.0 | -14.4 | Black |



| 91 | 2.081M | 21.6 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.5 | 46.0 | -14.5 | Black |
|-----|---------|------|--------------|------|------|------|------|------|------|-------|-------|
| 92 | 1.162M | 21.6 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.5 | 46.0 | -14.5 | Black |
| 93 | 2.480M | 21.5 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.5 | 46.0 | -14.5 | Black |
| 94 | 11.310M | 25.2 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.5 | 50.0 | -14.5 | Black |
| 95 | 2.991M | 21.5 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 31.5 | 46.0 | -14.5 | Black |
| 96 | 3.174M | 21.4 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 31.4 | 46.0 | -14.6 | Black |
| 97 | 3.918M | 21.3 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.4 | 46.0 | -14.6 | Black |
| 98 | 4.645M | 21.1 | +9.7 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 31.4 | 46.0 | -14.6 | Black |
| 99 | 2.578M | 21.4 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.3 | 46.0 | -14.7 | Black |
| 100 | 13.040M | 25.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.3 | 50.0 | -14.7 | Black |

CKC Laboratories, Inc Date: 8/20/2013 Time: 9:24:06 AM Bamb Labs WO#: 94232 Test Lead: Black 120V 60Hz Sequence#: 1





Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | 15.207 AC Mains - Average | | |
| Work Order #: | 94232 | Date: | 8/20/2013 |
| Test Type: | Conducted Emissions | Time: | 9:28:29 AM |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 2 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | 120V 60Hz |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| - | • | | | | |
|----|----------|-------------------|--------------|------------------|--------------|
| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
| T1 | ANP01211 | Attenuator | PE7002-10 | 4/2/2013 | 4/2/2015 |
| T2 | ANP00880 | Cable | RG214U | 7/30/2012 | 7/30/2014 |
| T3 | ANP05300 | Cable | RG214/U | 3/25/2013 | 3/25/2015 |
| | AN00493 | 50uH LISN-L1 (L) | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| T4 | AN00493 | 50uH LISN-L(2) N | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |
| T5 | ANP05258 | High Pass Filter | HE9615-150K- | 12/6/2012 | 12/6/2014 |
| | | | 50-720B | | |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------|--------------|------------|-------------------|
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Model #

S/N

Support Devices:

Function

Test Conditions / Notes:

Conducted Emission Frequency Range: 150kHz to 30MHz

High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C Humidity: 39% Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ

RF output power of the chip =OdBm Gain of the antenna=1dBi

The EUT is a fit device. It is placed on the 80 cm table. The EUT is set to continuously transmit. **Note: BlueTooth is operated only.**



Ext Attn: 0 dB

| Measur | rement Data: | Re | eading list | ted by ma | rgin. | | | Test Lead | d: White | | |
|--------|--------------|------|--------------|-----------|-------|------|-------|-----------|----------|--------|-------|
| # | Freq | Rdng | T1 T5 | T2 | T3 | T4 | Dist | Corr | Spec | Margin | Polar |
| | MHz | dBµV | dB | dB | dB | dB | Table | dBµV | dBµV | dB | Ant |
| 1 | 2.281M | 24.7 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 35.1 | 46.0 | -10.9 | White |
| 2 | 2.927M | 24.3 | +9.6 | +0.2 | +0.0 | +0.6 | +0.0 | 34.8 | 46.0 | -11.2 | White |
| 3 | 2.327M | 24.3 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 34.7 | 46.0 | -11.3 | White |
| 4 | 3.573M | 24.0 | +9.6 | +0.2 | +0.1 | +0.6 | +0.0 | 34.6 | 46.0 | -11.4 | White |
| 5 | 2.880M | 24.0 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 34.5 | 46.0 | -11.5 | White |
| 6 | 2.378M | 23.8 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 34.3 | 46.0 | -11.7 | White |
| 7 | 4.216M | 23.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 34.0 | 46.0 | -12.0 | White |
| 8 | 859.753k | 23.3 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 33.8 | 46.0 | -12.2 | White |
| 9 | 3.527M | 23.3 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.8 | 46.0 | -12.2 | White |
| 10 | 3.616M | 23.2 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.8 | 46.0 | -12.2 | White |
| 11 | 2.238M | 23.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.7 | 46.0 | -12.3 | White |
| 12 | 2.974M | 23.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.7 | 46.0 | -12.3 | White |
| 13 | 1.587M | 23.1 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
| 14 | 1.634M | 23.1 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
| 15 | 3.352M | 23.1 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
| 16 | 3.314M | 22.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.5 | 46.0 | -12.5 | White |
| 17 | 3.425M | 23.0 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.5 | 46.0 | -12.5 | White |
| 18 | 3.965M | 22.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.5 | 46.0 | -12.5 | White |
| 19 | 2.842M | 22.9 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.4 | 46.0 | -12.6 | White |
| 20 | 2.774M | 22.8 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.3 | 46.0 | -12.7 | White |
| 21 | 902.721k | 22.7 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 33.2 | 46.0 | -12.8 | White |
| 22 | 2.625M | 22.8 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.2 | 46.0 | -12.8 | White |
| 23 | 3.025M | 22.7 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.2 | 46.0 | -12.8 | White |



| 24 | 12.598M | 26.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.1 | 50.0 | -12.9 | White |
|----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 25 | 2.412M | 22.5 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
| 26 | 2.196M | 22.6 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
| 27 | 4.267M | 22.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
| 28 | 3.999M | 22.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
| 29 | 4.318M | 22.3 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.9 | 46.0 | -13.1 | White |
| 30 | 4.862M | 22.2 | +9.5 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 32.9 | 46.0 | -13.1 | White |
| 31 | 1.685M | 22.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.7 | 46.0 | -13.3 | White |
| 32 | 12.652M | 25.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.7 | 50.0 | -13.3 | White |
| 33 | 2.668M | 22.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 34 | 945.249k | 22.1 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 35 | 829.210k | 22.1 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 36 | 12.211M | 25.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.6 | 50.0 | -13.4 | White |
| 37 | 4.909M | 21.9 | +9.5 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 38 | 3.442M | 22.1 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 39 | 3.667M | 21.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 40 | 2.455M | 22.0 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 41 | 12.301M | 25.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.5 | 50.0 | -13.5 | White |
| 42 | 3.922M | 21.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 43 | 3.476M | 21.9 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.4 | 46.0 | -13.6 | White |
| 44 | 792.123k | 21.9 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 32.4 | 46.0 | -13.6 | White |
| 45 | 11.959M | 25.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.4 | 50.0 | -13.6 | White |
| 46 | 12.905M | 25.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.4 | 50.0 | -13.6 | White |
| 47 | 12.499M | 25.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.4 | 50.0 | -13.6 | White |
| 48 | 3.072M | 21.8 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 32.3 | 46.0 | -13.7 | White |
| 49 | 4.645M | 21.4 | +9.7 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 32.3 | 46.0 | -13.7 | White |



| 50 | 12.346M | 25.5 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.3 | 50.0 | -13.7 | White |
|----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 51 | 1.549M | 21.8 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.2 | 46.0 | -13.8 | White |
| 52 | 1.732M | 21.8 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 32.2 | 46.0 | -13.8 | White |
| 53 | 1.766M | 21.8 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 32.2 | 46.0 | -13.8 | White |
| 54 | 3.714M | 21.5 | +9.6 | +0.2 | +0.1 | +0.6 | +0.0 | 32.1 | 46.0 | -13.9 | White |
| 55 | 12.004M | 25.3 | +9.6 | +0.3 | +0.1 | +0.7 | +0.0 | 36.1 | 50.0 | -13.9 | White |
| 56 | 12.391M | 25.3 | +9.6 | +0.3 | +0.1 | +0.7 | +0.0 | 36.1 | 50.0 | -13.9 | White |
| 57 | 2.493M | 21.5 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.0 | 46.0 | -14.0 | White |
| 58 | 2.081M | 21.6 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 32.0 | 46.0 | -14.0 | White |
| 59 | 643.773k | 21.5 | +9.7 | +0.1 | +0.0 | +0.6 | +0.0 | 32.0 | 46.0 | -14.0 | White |
| 60 | 12.058M | 25.2 | +9.6 | +0.3 | +0.1 | +0.7 | +0.0 | 36.0 | 50.0 | -14.0 | White |
| 61 | 4.169M | 21.4 | +9.6 | +0.2 | +0.1 | +0.6 | +0.0 | 32.0 | 46.0 | -14.0 | White |
| 62 | 4.109M | 21.4 | +9.6 | +0.2 | +0.1 | +0.6 | +0.0 | 32.0 | 46.0 | -14.0 | White |
| 63 | 4.819M | 21.2 | +9.5 | +0.2 | +0.1 | +0.7 | +0.0 | 31.9 | 46.0 | -14.1 | White |
| 64 | 12.752M | 25.1 | +9.6 | +0.3 | +0.1 | +0.7 | +0.0 | 35.9 | 50.0 | -14.1 | White |
| 65 | 3.271M | 21.2 | +9.6 | +0.2 | +0.1 | +0.6 | +0.0 | 31.8 | 46.0 | -14.2 | White |
| 66 | 2.710M | 21.4 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 31.8 | 46.0 | -14.2 | White |
| 67 | 2.429M | 21.3 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.8 | 46.0 | -14.2 | White |
| 68 | 12.256M | 25.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 35.8 | 50.0 | -14.2 | White |
| 69 | 12.103M | 25.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 35.8 | 50.0 | -14.2 | White |
| 70 | 11.022M | 24.9 | +9.7 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 35.8 | 50.0 | -14.2 | White |
| 71 | 3.097M | 21.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 31.7 | 46.0 | -14.3 | White |
| 72 | 4.611M | 20.8 | +9.7 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 31.7 | 46.0 | -14.3 | White |
| 73 | 4.960M | 21.0 | +9.5 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 31.7 | 46.0 | -14.3 | White |
| 74 | 2.017M | 21.2 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 31.6 | 46.0 | -14.4 | White |
| 75 | 1.120M | 21.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.6 | 46.0 | -14.4 | White |



| 76 | 12.427M | 24.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 35.6 | 50.0 | -14.4 | White |
|-----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 77 | 2.583M | 21.2 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 31.6 | 46.0 | -14.4 | White |
| 78 | 2.128M | 21.1 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 31.5 | 46.0 | -14.5 | White |
| 79 | 1.983M | 21.1 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.5 | 46.0 | -14.5 | White |
| 80 | 4.518M | 20.7 | +9.7 | +0.2 | +0.1 | +0.6 | +0.0 | 31.5 | 46.0 | -14.5 | White |
| 81 | 2.753M | 21.0 | +9.6 | +0.2 | +0.0 | +0.6 | +0.0 | 31.5 | 46.0 | -14.5 | White |
| 82 | 3.123M | 20.9 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 31.4 | 46.0 | -14.6 | White |
| 83 | 542.691k | 21.1 | +9.5 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.4 | 46.0 | -14.6 | White |
| 84 | 12.950M | 24.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 35.4 | 50.0 | -14.6 | White |
| 85 | 11.616M | 24.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 35.4 | 50.0 | -14.6 | White |
| 86 | 1.787M | 20.9 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.3 | 46.0 | -14.7 | White |
| 87 | 3.773M | 20.7 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 31.3 | 46.0 | -14.7 | White |
| 88 | 4.730M | 20.5 | +9.6 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 31.3 | 46.0 | -14.7 | White |
| 89 | 1.077M | 20.8 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.2 | 46.0 | -14.8 | White |
| 90 | 3.174M | 20.7 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 31.2 | 46.0 | -14.8 | White |
| 91 | 1.439M | 20.7 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.1 | 46.0 | -14.9 | White |
| 92 | 1.485M | 20.7 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.1 | 46.0 | -14.9 | White |
| 93 | 11.860M | 24.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 35.1 | 50.0 | -14.9 | White |
| 94 | 2.153M | 20.6 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.0 | 46.0 | -15.0 | White |
| 95 | 1.043M | 20.6 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 31.0 | 46.0 | -15.0 | White |
| 96 | 4.773M | 20.2 | +9.6 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 31.0 | 46.0 | -15.0 | White |
| 97 | 3.854M | 20.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 31.0 | 46.0 | -15.0 | White |
| 98 | 2.527M | 20.5 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 30.9 | 46.0 | -15.1 | White |
| 99 | 11.562M | 24.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 34.8 | 50.0 | -15.2 | White |
| 100 | 11.661M | 24.0 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 34.8 | 50.0 | -15.2 | White |



CKC Laboratories, Inc. Date: 8/20/2013 Time: 9:28:29 AM Bamb Labs WO#: 94232 Test Lead: White 120V 60Hz Sequence#: 2





Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | 15.207 AC Mains - Average | | |
| Work Order #: | 94232 | Date: | 8/23/2013 |
| Test Type: | Conducted Emissions | Time: | 10:41:40 AM |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 103 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | 120V 60Hz |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| | 1 | | | | |
|----|----------|-------------------|--------------|------------------|--------------|
| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
| T1 | ANP01211 | Attenuator | PE7002-10 | 4/2/2013 | 4/2/2015 |
| T2 | ANP00880 | Cable | RG214U | 7/30/2012 | 7/30/2014 |
| T3 | ANP05300 | Cable | RG214/U | 3/25/2013 | 3/25/2015 |
| T4 | AN00493 | 50uH LISN-L1 (L) | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| | AN00493 | 50uH LISN-L(2) N | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |
| T5 | ANP05258 | High Pass Filter | HE9615-150K- | 12/6/2012 | 12/6/2014 |
| | | | 50-720B | | |

Equipment Under Test (* = EUT):

| | - | | |
|------------------------|--------------|------------|-------------------|
| Function | Manufacturer | Model # | S/N |
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Model #

S/N

Support Devices:

Function

Test Conditions / Notes:

Conducted Emission Frequency Range: 150kHz to 30MHz

High Clock: 32 MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Manufacturer

Temperature: 21.6°C Humidity: 39% Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.405GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ

RF output power of the chip = 1.19dBm (DC) Gain of the antenna=1dBi

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit. **Note: Zigbee is operated only.**



Ext Attn: 0 dB

| Measur | rement Data: | Re | eading lis | ted by ma | argin. | | | Test Lead | d: Black | | |
|--------|--------------|------|--------------|-----------|--------|------|-------|-----------|----------|--------|-------|
| # | Freq | Rdng | T1 T5 | T2 | T3 | T4 | Dist | Corr | Spec | Margin | Polar |
| | MHz | dBµV | dB | dB | dB | dB | Table | dBµV | dBµV | dB | Ant |
| 1 | 2.927M | 25.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 35.2 | 46.0 | -10.8 | Black |
| 2 | 2.281M | 25.1 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 35.0 | 46.0 | -11.0 | Black |
| 3 | 2.378M | 24.9 | +9.7 | +0.1 | +0.0 | +0.1 | +0.0 | 34.9 | 46.0 | -11.1 | Black |
| 4 | 2.332M | 24.4 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 34.3 | 46.0 | -11.7 | Black |
| 5 | 2.234M | 24.3 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 34.2 | 46.0 | -11.8 | Black |
| 6 | 2.884M | 24.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 34.2 | 46.0 | -11.8 | Black |
| 7 | 3.620M | 24.1 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 34.2 | 46.0 | -11.8 | Black |
| 8 | 3.029M | 24.1 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 34.1 | 46.0 | -11.9 | Black |
| 9 | 3.425M | 24.0 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 34.0 | 46.0 | -12.0 | Black |
| 10 | 3.573M | 23.8 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 33.9 | 46.0 | -12.1 | Black |
| 11 | 1.638M | 23.6 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 33.6 | 46.0 | -12.4 | Black |
| 12 | 2.408M | 23.6 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 33.6 | 46.0 | -12.4 | Black |
| 13 | 3.531M | 23.6 | +9.5 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 33.6 | 46.0 | -12.4 | Black |
| 14 | 3.140M | 23.3 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 33.3 | 46.0 | -12.7 | Black |
| 15 | 4.220M | 23.2 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 33.3 | 46.0 | -12.7 | Black |
| 16 | 2.030M | 23.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 33.2 | 46.0 | -12.8 | Black |
| 17 | 1.732M | 23.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 33.2 | 46.0 | -12.8 | Black |
| 18 | 2.978M | 23.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 33.2 | 46.0 | -12.8 | Black |
| 19 | 12.616M | 26.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.2 | 50.0 | -12.8 | Black |
| 20 | 12.517M | 26.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.2 | 50.0 | -12.8 | Black |
| 21 | 861.206k | 23.1 | +9.6 +0.2 | +0.1 | +0.0 | +0.1 | +0.0 | 33.1 | 46.0 | -12.9 | Black |
| 22 | 12.319M | 26.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.1 | 50.0 | -12.9 | Black |
| 23 | 2.778M | 23.0 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 33.0 | 46.0 | -13.0 | Black |



| I | | | | | | | | | | | |
|-----|-----------|--------------|--------------|------------|-----------|-----------|-----------|------|------|-------|-------------|
| 24 | 12.265M | 26.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 37.0 | 50.0 | -13.0 | Black |
| 25 | 2.497M | 22.9 | +9.7 | +0.1 | +0.0 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| 26 | 3.718M | 22.8 | +0.1 +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| | | | +0.1 | | | | | | | | |
| 27 | 3.790M | 22.8 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 32.9 | 46.0 | -13.1 | Black |
| 20 | 1 597M | 22.0 | +0.7 | +0.1 | | +0.1 | | 22.0 | 46.0 | 12.0 | Dlaslr |
| 28 | 1.38/101 | 22.8 | +9.7 | +0.1 | +0.0 | +0.1 | +0.0 | 52.0 | 40.0 | -13.2 | DIACK |
| 20 | 702 1221 | 22.0 | +0.1 | 0.1 | .0.0 | .0.1 | .0.0 | 22.0 | 10.0 | 12.0 | D1. 1 |
| 29 | /92.122K | 22.8 | +9.0 | +0.1 | +0.0 | +0.1 | +0.0 | 32.8 | 40.0 | -13.2 | Бласк |
| 20 | 1000 | 22.7 | +0.2 | 0.0 | 0.1 | 0.1 | 0.0 | 22.0 | 16.0 | 10.0 | D1 1 |
| 30 | 4.866M | 22.7 | +9.5 | +0.2 | +0.1 | +0.1 | +0.0 | 32.8 | 46.0 | -13.2 | Black |
| - | | | +0.2 | | | | | | | | |
| 31 | 3.748M | 22.7 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 32.8 | 46.0 | -13.2 | Black |
| | | | +0.1 | | | | | | | | |
| 32 | 3.671M | 22.6 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 32.7 | 46.0 | -13.3 | Black |
| | | | +0.1 | | | | | | | | |
| 33 | 3.824M | 22.6 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 32.7 | 46.0 | -13.3 | Black |
| | | | +0.1 | | | | | | | | |
| 34 | 4.173M | 22.6 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 32.7 | 46.0 | -13.3 | Black |
| | | | +0.1 | | | | | | | | |
| 35 | 12.652M | 26.2 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 36.5 | 50.0 | -13.5 | Black |
| | | | +0.1 | | | | | | | | |
| 36 | 1.120M | 22.6 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 32.5 | 46.0 | -13.5 | Black |
| | | | +0.1 | | | | | | | | |
| 37 | 12.914M | 26.2 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 36.5 | 50.0 | -13.5 | Black |
| | | | +0.1 | | | | | | | | |
| 38 | 12.761M | 26.2 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 36.5 | 50.0 | -13.5 | Black |
| | | | +0.1 | | | | | | | | |
| 39 | 945.249k | 22.4 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 32.4 | 46.0 | -13.6 | Black |
| • • | , | | +0.2 | | | | | | | | |
| 40 | 4.819M | 22.3 | +9.5 | +0.2 | +0.1 | +0.1 | +0.0 | 32.4 | 46.0 | -13.6 | Black |
| | | | +0.2 | | | | | 0200 | 1010 | 1010 | Diatin |
| 41 | 11 968M | 26.1 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 36.4 | 50.0 | -13.6 | Black |
| | 11.900.00 | 20.1 | +0.1 | 10.5 | 10.1 | 10.2 | 10.0 | 50.1 | 50.0 | 15.0 | Ditter |
| 42 | 12 364M | 26.0 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 36.3 | 50.0 | -137 | Black |
| 72 | 12.30411 | 20.0 | +0.1 | 10.5 | 10.1 | 10.2 | 10.0 | 50.5 | 50.0 | -15.7 | DIACK |
| 13 | 2.850M | 22.2 | +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 32.2 | 46.0 | 13.8 | Black |
| 45 | 2.050101 | 22.2 | +9.0 | +0.2 | ± 0.0 | ± 0.1 | ± 0.0 | 32.2 | 40.0 | -15.0 | DIACK |
| 4.4 | 2.007M | 22.2 | +0.1 | +0.2 | | +0.1 | | 22.2 | 46.0 | 12.0 | Dlaak |
| 44 | 5.097WI | 22.2 | +9.0 | ± 0.2 | ± 0.0 | +0.1 | ± 0.0 | 32.2 | 40.0 | -15.0 | DIACK |
| 45 | 10.10114 | 25.0 | +0.1 | .0.2 | 0.1 | .0.2 | .0.0 | 26.2 | 50.0 | 12.0 | D11 |
| 45 | 12.121M | 25.9 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 36.2 | 50.0 | -13.8 | Віаск |
| 16 | 000 7011 | 22.1 | +0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 22.1 | 16.0 | 12.0 | D1 1 |
| 46 | 902.721k | 22.1 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 32.1 | 46.0 | -13.9 | Black |
| 17 | 4.0173.6 | 22.0 | +0.2 | | .0.1 | .0.1 | | 20.1 | 16.0 | 12.0 | DII |
| 47 | 4.917/M | 22.0 | +9.5 | +0.2 | +0.1 | +0.1 | +0.0 | 32.1 | 46.0 | -13.9 | Black |
| | 10.0103.5 | A - 0 | +0.2 | <i>c</i> • | | ~ • | | | | 1 | D1 : |
| 48 | 12.013M | 25.8 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 36.1 | 50.0 | -13.9 | Black |
| ļ | | | +0.1 | | | | | | | | |
| 49 | 4.267M | 21.9 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| | | | +0.1 | | | | | | | | |



| 50 | 12.869M | 25.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 36.0 | 50.0 | -14.0 | Black |
|----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 51 | 1.685M | 22.1 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 52 | 831.391k | 22.0 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 53 | 1.766M | 22.1 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 54 | 3.229M | 22.0 | +9.6 | +0.2 | +0.0 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 55 | 3.063M | 22.0 | +9.6 | +0.2 | +0.0 | +0.1 | +0.0 | 32.0 | 46.0 | -14.0 | Black |
| 56 | 3.399M | 21.9 | +9.5 | +0.2 | +0.1 | +0.1 | +0.0 | 31.9 | 46.0 | -14.1 | Black |
| 57 | 4.322M | 21.8 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 31.9 | 46.0 | -14.1 | Black |
| 58 | 3.467M | 21.8 | +9.5 | +0.2 | +0.1 | +0.1 | +0.0 | 31.8 | 46.0 | -14.2 | Black |
| 59 | 3.357M | 21.8 | +9.5 | +0.2 | +0.1 | +0.1 | +0.0 | 31.8 | 46.0 | -14.2 | Black |
| 60 | 3.773M | 21.7 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 31.8 | 46.0 | -14.2 | Black |
| 61 | 12.959M | 25.5 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 35.8 | 50.0 | -14.2 | Black |
| 62 | 4.764M | 21.6 | +9.6 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 31.8 | 46.0 | -14.2 | Black |
| 63 | 839.390k | 21.7 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 64 | 3.374M | 21.7 | +9.5 | +0.2 | +0.1 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 65 | 4.003M | 21.6 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 31.7 | 46.0 | -14.3 | Black |
| 66 | 3.875M | 21.5 | +9.6 | +0.2 | +0.1 | +0.1 | +0.0 | 31.6 | 46.0 | -14.4 | Black |
| 67 | 1.549M | 21.7 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 31.6 | 46.0 | -14.4 | Black |
| 68 | 12.472M | 25.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.6 | 50.0 | -14.4 | Black |
| 69 | 11.869M | 25.3 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 35.6 | 50.0 | -14.4 | Black |
| 70 | 645.953k | 21.5 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.5 | 46.0 | -14.5 | Black |
| 71 | 4.041M | 21.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.5 | 46.0 | -14.5 | Black |
| 72 | 2.200M | 21.5 | +9.6 | +0.1 | +0.0 | +0.1 | +0.0 | 31.4 | 46.0 | -14.6 | Black |
| 73 | 2.532M | 21.5 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.4 | 46.0 | -14.6 | Black |
| 74 | 3.174M | 21.4 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 31.4 | 46.0 | -14.6 | Black |
| 75 | 1.809M | 21.4 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.3 | 46.0 | -14.7 | Black |



| 76 | 4.114M | 21.2 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.3 | 46.0 | -14.7 | Black |
|-----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 77 | 11.328M | 25.0 | +9.6 | +0.3 | +0.1 | +0.2 | +0.0 | 35.3 | 50.0 | -14.7 | Black |
| 78 | 2.068M | 21.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 79 | 2.583M | 21.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 80 | 1.787M | 21.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 81 | 992.029k | 21.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 82 | 1.141M | 21.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 83 | 2.744M | 21.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 84 | 11.571M | 24.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.2 | 50.0 | -14.8 | Black |
| 85 | 12.184M | 24.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.2 | 50.0 | -14.8 | Black |
| 86 | 4.467M | 21.1 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 87 | 3.969M | 21.1 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 88 | 4.364M | 21.1 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.2 | 46.0 | -14.8 | Black |
| 89 | 2.136M | 21.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.1 | 46.0 | -14.9 | Black |
| 90 | 599.412k | 21.1 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.1 | 46.0 | -14.9 | Black |
| 91 | 4.569M | 20.8 | +9.7 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 31.1 | 46.0 | -14.9 | Black |
| 92 | 12.220M | 24.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.1 | 50.0 | -14.9 | Black |
| 93 | 4.649M | 20.8 | +9.7 +0.2 | +0.2 | +0.1 | +0.1 | +0.0 | 31.1 | 46.0 | -14.9 | Black |
| 94 | 3.318M | 20.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.0 | 46.0 | -15.0 | Black |
| 95 | 1.660M | 21.0 | +9.7 +0.1 | +0.1 | +0.0 | +0.1 | +0.0 | 31.0 | 46.0 | -15.0 | Black |
| 96 | 12.409M | 24.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 35.0 | 50.0 | -15.0 | Black |
| 97 | 3.918M | 20.9 | +9.6 +0.1 | +0.2 | +0.1 | +0.1 | +0.0 | 31.0 | 46.0 | -15.0 | Black |
| 98 | 11.670M | 24.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 34.9 | 50.0 | -15.1 | Black |
| 99 | 11.716M | 24.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 34.9 | 50.0 | -15.1 | Black |
| 100 | 11.824M | 24.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.2 | +0.0 | 34.9 | 50.0 | -15.1 | Black |



80 -75 -70 -65 -60 -55 50 • dB 45 40 35 -30 25 -20 -15 -10 -10M 30M 150k 1M Frequency [k=kHz M=MHz G=GHz] Sweep Data - Readings O Peak Readings × QP Readings * Average Readings Ambient ¥ 1 - 15.207 AC Mains - Average - 2 - 15.207 AC Mains - Quasi-peak

CKC Laboratories, Inc. Date: 8/23/2013 Time: 10:41:40 AM Bamb Labs WO#: 94232 Test Lead: Black 120V 60Hz Sequence#: 103



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | 15.207 AC Mains - Average | | |
| Work Order #: | 94232 | Date: | 8/23/2013 |
| Test Type: | Conducted Emissions | Time: | 10:46:36 AM |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 104 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | 120V 60Hz |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| | 1 | | | | |
|----|----------|-------------------|--------------|------------------|--------------|
| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
| T1 | ANP01211 | Attenuator | PE7002-10 | 4/2/2013 | 4/2/2015 |
| T2 | ANP00880 | Cable | RG214U | 7/30/2012 | 7/30/2014 |
| T3 | ANP05300 | Cable | RG214/U | 3/25/2013 | 3/25/2015 |
| | AN00493 | 50uH LISN-L1 (L) | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| T4 | AN00493 | 50uH LISN-L(2) N | 3816/NM | 3/4/2013 | 3/4/2015 |
| | | Loss W/O European | | | |
| | | Adapter | | | |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |
| T5 | ANP05258 | High Pass Filter | HE9615-150K- | 12/6/2012 | 12/6/2014 |
| | | | 50-720B | | |

Equipment Under Test (* = EUT):

| | ÷ | | |
|------------------------|--------------|------------|-------------------|
| Function | Manufacturer | Model # | S/N |
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Model #

S/N

Support Devices:

Function

Test Conditions / Notes:

Conducted Emission Frequency Range: 150kHz to 30MHz

High Clock: 32 MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Manufacturer

Temperature: 21.6°C Humidity: 39% Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz Low Frequency: 2.405GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ RF output power of the chip = 1.19dBm (DC) Gain of the antenna=1dBi

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit. **Note: Zigbee is operated only.**



Ext Attn: 0 dB

| Measur | ement Data: | Re | eading list | ted by ma | argin. | | Test Lead: White | | | | |
|--------|-------------|------|--------------|-----------|--------|------|------------------|------|------|--------|-------|
| # | Freq | Rdng | T1 T5 | T2 | T3 | T4 | Dist | Corr | Spec | Margin | Polar |
| | MHz | dBµV | dB | dB | dB | dB | Table | dBµV | dBµV | dB | Ant |
| 1 | 12.661M | 29.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 40.5 | 50.0 | -9.5 | White |
| 2 | 12.959M | 29.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 40.4 | 50.0 | -9.6 | White |
| 3 | 2.285M | 25.7 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 36.1 | 46.0 | -9.9 | White |
| 4 | 12.607M | 29.2 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 40.0 | 50.0 | -10.0 | White |
| 5 | 2.327M | 25.5 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 35.9 | 46.0 | -10.1 | White |
| 6 | 2.383M | 25.4 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 35.9 | 46.0 | -10.1 | White |
| 7 | 12.761M | 29.1 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 39.9 | 50.0 | -10.1 | White |
| 8 | 2.927M | 25.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 35.7 | 46.0 | -10.3 | White |
| 9 | 12.914M | 28.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 39.7 | 50.0 | -10.3 | White |
| 10 | 12.310M | 28.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 39.6 | 50.0 | -10.4 | White |
| 11 | 2.884M | 24.9 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 35.4 | 46.0 | -10.6 | White |
| 12 | 12.409M | 28.5 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 39.3 | 50.0 | -10.7 | White |
| 13 | 12.463M | 28.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 39.1 | 50.0 | -10.9 | White |
| 14 | 12.716M | 28.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 39.1 | 50.0 | -10.9 | White |
| 15 | 3.573M | 24.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 35.0 | 46.0 | -11.0 | White |
| 16 | 12.571M | 28.2 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 39.0 | 50.0 | -11.0 | White |
| 17 | 3.025M | 24.3 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 34.8 | 46.0 | -11.2 | White |
| 18 | 3.140M | 24.2 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 34.7 | 46.0 | -11.3 | White |
| 19 | 3.620M | 24.0 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 34.6 | 46.0 | -11.4 | White |
| 20 | 3.527M | 24.1 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 34.6 | 46.0 | -11.4 | White |
| 21 | 12.013M | 27.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.6 | 50.0 | -11.4 | White |
| 22 | 13.301M | 27.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.6 | 50.0 | -11.4 | White |
| 23 | 12.229M | 27.8 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.6 | 50.0 | -11.4 | White |



| 24 | 2.978M | 24.0 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 34.5 | 46.0 | -11.5 | White |
|----|---------|------|--------------|------|------|------|------|------|------|-------|-------|
| 25 | 1.638M | 24.0 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 34.5 | 46.0 | -11.5 | White |
| 26 | 13.013M | 27.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.5 | 50.0 | -11.5 | White |
| 27 | 11.968M | 27.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.5 | 50.0 | -11.5 | White |
| 28 | 2.451M | 23.9 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 34.4 | 46.0 | -11.6 | White |
| 29 | 13.211M | 27.6 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.4 | 50.0 | -11.6 | White |
| 30 | 2.234M | 23.9 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 34.3 | 46.0 | -11.7 | White |
| 31 | 1.592M | 23.8 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 34.3 | 46.0 | -11.7 | White |
| 32 | 3.425M | 23.8 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 34.3 | 46.0 | -11.7 | White |
| 33 | 13.157M | 27.5 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.3 | 50.0 | -11.7 | White |
| 34 | 12.265M | 27.5 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.3 | 50.0 | -11.7 | White |
| 35 | 12.121M | 27.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.2 | 50.0 | -11.8 | White |
| 36 | 13.058M | 27.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.2 | 50.0 | -11.8 | White |
| 37 | 13.256M | 27.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.2 | 50.0 | -11.8 | White |
| 38 | 3.671M | 23.5 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 34.1 | 46.0 | -11.9 | White |
| 39 | 4.220M | 23.5 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 34.1 | 46.0 | -11.9 | White |
| 40 | 2.412M | 23.5 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 34.0 | 46.0 | -12.0 | White |
| 41 | 3.399M | 23.5 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 34.0 | 46.0 | -12.0 | White |
| 42 | 11.364M | 27.2 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 38.0 | 50.0 | -12.0 | White |
| 43 | 3.174M | 23.4 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.9 | 46.0 | -12.1 | White |
| 44 | 3.097M | 23.4 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.9 | 46.0 | -12.1 | White |
| 45 | 13.112M | 27.1 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.9 | 50.0 | -12.1 | White |
| 46 | 11.860M | 27.1 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.9 | 50.0 | -12.1 | White |
| 47 | 3.790M | 23.2 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.8 | 46.0 | -12.2 | White |
| 48 | 11.616M | 26.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.7 | 50.0 | -12.3 | White |
| 49 | 11.770M | 26.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.7 | 50.0 | -12.3 | White |



| 50 | 3.357M | 23.1 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
|----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 51 | 1.685M | 23.2 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
| 52 | 1.120M | 23.2 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
| 53 | 2.778M | 23.1 | +9.6 | +0.2 | +0.0 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
| 54 | 2.485M | 23.1 | +9.7 | +0.1 | +0.0 | +0.6 | +0.0 | 33.6 | 46.0 | -12.4 | White |
| 55 | 1.804M | 23.1 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 33.5 | 46.0 | -12.5 | White |
| 56 | 863.389k | 23.0 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 33.5 | 46.0 | -12.5 | White |
| 57 | 11.472M | 26.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.5 | 50.0 | -12.5 | White |
| 58 | 11.319M | 26.7 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.5 | 50.0 | -12.5 | White |
| 59 | 2.842M | 22.9 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.4 | 46.0 | -12.6 | White |
| 60 | 3.718M | 22.8 | +9.6 | +0.2 | +0.1 | +0.6 | +0.0 | 33.4 | 46.0 | -12.6 | White |
| 61 | 13.346M | 26.6 | +9.6 | +0.3 | +0.1 | +0.7 | +0.0 | 37.4 | 50.0 | -12.6 | White |
| 62 | 2.196M | 22.9 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 33.3 | 46.0 | -12.7 | White |
| 63 | 4.518M | 22.5 | +9.7 +0.2 | +0.2 | +0.1 | +0.6 | +0.0 | 33.3 | 46.0 | -12.7 | White |
| 64 | 4.866M | 22.6 | +9.5 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 33.3 | 46.0 | -12.7 | White |
| 65 | 1.192M | 22.8 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 33.2 | 46.0 | -12.8 | White |
| 66 | 13.553M | 26.4 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.2 | 50.0 | -12.8 | White |
| 67 | 1.732M | 22.7 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.1 | 46.0 | -12.9 | White |
| 68 | 902.721k | 22.6 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 33.1 | 46.0 | -12.9 | White |
| 69 | 4.258M | 22.5 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.1 | 46.0 | -12.9 | White |
| 70 | 11.824M | 26.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.1 | 50.0 | -12.9 | White |
| 71 | 11.725M | 26.3 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.1 | 50.0 | -12.9 | White |
| 72 | 3.229M | 22.5 | +9.6 +0.1 | +0.2 | +0.0 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
| 73 | 501.240k | 22.5 | +9.7 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
| 74 | 3.748M | 22.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
| 75 | 11.797M | 26.2 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 37.0 | 50.0 | -13.0 | White |



| 76 | 4.322M | 22.4 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 33.0 | 46.0 | -13.0 | White |
|-----|----------|------|--------------|------|------|------|------|------|------|-------|-------|
| 77 | 2.021M | 22.5 | +9.6 | +0.1 | +0.0 | +0.6 | +0.0 | 32.9 | 46.0 | -13.1 | White |
| 78 | 3.076M | 22.4 | +9.6 | +0.2 | +0.0 | +0.6 | +0.0 | 32.9 | 46.0 | -13.1 | White |
| 79 | 11.580M | 26.1 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.9 | 50.0 | -13.1 | White |
| 80 | 992.029k | 22.4 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.8 | 46.0 | -13.2 | White |
| 81 | 3.875M | 22.2 | +9.6 | +0.2 | +0.1 | +0.6 | +0.0 | 32.8 | 46.0 | -13.2 | White |
| 82 | 3.276M | 22.1 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.7 | 46.0 | -13.3 | White |
| 83 | 2.132M | 22.3 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.7 | 46.0 | -13.3 | White |
| 84 | 13.607M | 25.9 | +9.6 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.7 | 50.0 | -13.3 | White |
| 85 | 3.318M | 22.1 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.7 | 46.0 | -13.3 | White |
| 86 | 1.838M | 22.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 87 | 1.766M | 22.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 88 | 4.475M | 21.8 | +9.7 +0.2 | +0.2 | +0.1 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 89 | 1.936M | 22.2 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.6 | 46.0 | -13.4 | White |
| 90 | 2.536M | 22.1 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 91 | 1.077M | 22.1 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 92 | 843.027k | 22.0 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 93 | 11.076M | 25.6 | +9.7 +0.1 | +0.3 | +0.1 | +0.7 | +0.0 | 36.5 | 50.0 | -13.5 | White |
| 94 | 4.819M | 21.8 | +9.5 +0.2 | +0.2 | +0.1 | +0.7 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 95 | 3.463M | 22.0 | +9.5 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.5 | 46.0 | -13.5 | White |
| 96 | 792.123k | 21.9 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 32.4 | 46.0 | -13.6 | White |
| 97 | 819.757k | 21.9 | +9.6 +0.2 | +0.1 | +0.0 | +0.6 | +0.0 | 32.4 | 46.0 | -13.6 | White |
| 98 | 1.043M | 22.0 | +9.6 +0.1 | +0.1 | +0.0 | +0.6 | +0.0 | 32.4 | 46.0 | -13.6 | White |
| 99 | 3.965M | 21.7 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.3 | 46.0 | -13.7 | White |
| 100 | 4.173M | 21.7 | +9.6 +0.1 | +0.2 | +0.1 | +0.6 | +0.0 | 32.3 | 46.0 | -13.7 | White |



15 -10 -

150k

Test Lead. While 120V 60H2 Sequence#, 104

CKC Laboratories, Inc. Date: 8/23/2013 Time: 10:46:36 AM Bamb Labs WO#: 94232 Test Lead: White 120V 60Hz Sequence#: 104



Frequency [k=kHz M=MHz G=GHz]

1M

10M

30M



Test Setup Photos





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15.247(b)(3) RF Power Output

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|-----------------------------------|------------|----------------------|
| Specification: | 15.247(b)(3) Fundamental Readings | | |
| Work Order #: | 94232 | Date: | 8/20/2013 |
| Test Type: | Radiated Scan | Time: | 11:43:57 |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 5 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| | ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
|---|----|----------|-------------------|---------------|------------------|--------------|
| , | Т1 | AN02157 | Horn Antenna-ANSI | 3115 | 1/23/2013 | 1/23/2015 |
| | | | C63.5 | | | |
| ' | Т2 | AN03302 | Cable | 32026-29094K- | 3/21/2012 | 3/21/2014 |
| | | | | 29094K-72TC | | |
| , | Г3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| | | 37 114 | 0.01 |
|------------------------|--------------|------------|-------------------|
| Function | Manufacturer | Model # | S/N |
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Support Devices: Function

Manufacturer

Model #

S/N

Test Conditions / Notes: Fundamental of the EUT High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2 Temperature: 21.6°C Humidity: 39% Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHz RF output power of the chip= 0dBm Gain of the antenna = 1dBi The EUT is a fixed device. It is placed on the 80 cm table and 3 meter away from the measuring antenna. The EUT is set to continuously transmit. RBW=1MHz, VBW=3MHz Note: Bluetooth is operated only.



<u>Test Data</u>

| Ext A | ttn: 0 dB | | | | | | | | | | |
|-------------------|-----------|------|------------|-----------|--------|----|-------------------------|-------------|------------|--------|-------|
| Measurement Data: | | Re | eading lis | ted by ma | argin. | | Test Distance: 3 Meters | | | | |
| # | Freq | Rdng | T1 | T2 | T3 | | Dist | Corr | Spec | Margin | Polar |
| | MHz | dBµV | dB | dB | dB | dB | Table | $dB\mu V/m$ | dBµV/m | dB | Ant |
| 1 | 2402.169M | 60.6 | +28.6 | +1.1 | +2.7 | | +0.0 | 93.0 | 125.2 | -32.2 | Horiz |
| | | | | | | | | | Low Channe | nel | |
| 2 | 2402.169M | 60.0 | +28.6 | +1.1 | +2.7 | | +0.0 | 92.4 | 125.2 | -32.8 | Vert |
| | | | | | | | | | Low Chan | nel | |
| 3 | 2440.280M | 58.6 | +28.7 | +1.1 | +2.7 | | +0.0 | 91.1 | 125.2 | -34.1 | Horiz |
| | | | | | | | | | Middle Ch | annel | |
| 4 | 2440.280M | 58.0 | +28.7 | +1.1 | +2.7 | | +0.0 | 90.5 | 125.2 | -34.7 | Vert |
| | | | | | | | | | Middle Ch | annel | |
| 5 | 2479.728M | 55.3 | +28.9 | +1.1 | +2.7 | | +0.0 | 88.0 | 125.2 | -37.2 | Vert |
| | | | | | | | | | High Chan | nel | |
| 6 | 2479.728M | 55.1 | +28.9 | +1.1 | +2.7 | | +0.0 | 87.8 | 125.2 | -37.4 | Horiz |
| | | | | | | | | | High Chan | nel | |

| Frequency (MHz) | Measured Power in Watts | Power Limit in Watts | Pass/Fail |
|-----------------|----------------------------|----------------------|-----------|
| 2402.169 | | | |
| Low Channel | 0.000476 | 1.00 | Pass |
| (Horizontal) | | | |
| 2402.169 | | | |
| Low Channel | 0.000414 | 1.00 | Pass |
| (Vertical) | | | |
| 2440.280 | | | |
| Middle Channel | 0.000307 | 1.00 | Pass |
| (Horizontal) | | | |
| 2440.280 | | | |
| Middle Channel | 0.000267 | 1.00 | Pass |
| (Vertical) | | | |
| 2479.728 | | | |
| High Channel | 0.000144 | 1.00 | Pass |
| (Horizontal) | | | |
| 2479.728 | | | |
| High Channel | 0.000150 | 1.00 | Pass |
| (Vertical) | | | |

A formula converts Radiated Method to Conducted Method.

dBm (conducted power) = dBuV/m +20*LOG D -104.77 – Gain (dBi)





















Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|-----------------------------------|------------|----------------------|
| Specification: | 15.247(b)(3) Fundamental Readings | | |
| Work Order #: | 94232 | Date: | 8/21/2013 |
| Test Type: | Radiated Scan | Time: | 09:59:11 |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 6 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| - | | | | | | |
|---|----|----------|-------------------|---------------|------------------|--------------|
| | ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
| | T1 | AN02157 | Horn Antenna-ANSI | 3115 | 1/23/2013 | 1/23/2015 |
| | | | C63.5 | | | |
| | T2 | AN03302 | Cable | 32026-29094K- | 3/21/2012 | 3/21/2014 |
| | | | | 29094K-72TC | | |
| | T3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------|--------------|------------|-------------------|
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Support Devices:

Function Manufacturer

Model #

S/N

Test Conditions / Notes:

Fundamental of the EUT

High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C Humidity: 39% Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz Number of Channel: 16 Low Frequency: 2.405GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ RF output power of the chip= 1.19 dBm (DC) Gain of the antenna= 1dBi

RBW=3MHz VBW=8MHz

The EUT is a fixed device. It is placed on the 80 cm table and 3 meters away from the measuring antenna. The EUT is set to continuously transmit.

Note: Zigbee is operated only.



+ Ext Attn: 0 dB

| Measurement Data: R | | | eading lis | ted by ma | argin. | | Te | est Distance | e: 3 Meters | | |
|---------------------|-----------|------|------------|-----------|--------|----|-------|--------------|-------------|--------|-------|
| # | Freq | Rdng | T1 | T2 | T3 | | Dist | Corr | Spec | Margin | Polar |
| | MHz | dBµV | dB | dB | dB | dB | Table | $dB\mu V/m$ | $dB\mu V/m$ | dB | Ant |
| 1 | 2480.490M | 64.9 | +28.9 | +1.1 | +2.7 | | +0.0 | 97.6 | 125.2 | -27.6 | Horiz |
| | | | | | | | | | High Chan | nel | |
| 2 | 2439.640M | 65.0 | +28.7 | +1.1 | +2.7 | | +0.0 | 97.5 | 125.2 | -27.7 | Horiz |
| | | | | | | | | | Middle Ch | annel | |
| 3 | 2405.023M | 64.5 | +28.6 | +1.1 | +2.7 | | +0.0 | 96.9 | 125.2 | -28.3 | Horiz |
| | | | | | | | | | Low Chan | nel | |
| 4 | 2439.640M | 60.9 | +28.7 | +1.1 | +2.7 | | +0.0 | 93.4 | 125.2 | -31.8 | Vert |
| | | | | | | | | | Middle cha | annel | |
| 5 | 2405.023M | 59.5 | +28.6 | +1.1 | +2.7 | | +0.0 | 91.9 | 125.2 | -33.3 | Vert |
| | | | | | | | | | Low chann | nel | |
| 6 | 2480.490M | 58.3 | +28.9 | +1.1 | +2.7 | | +0.0 | 91.0 | 125.2 | -34.2 | Vert |
| | | | | | | | | | High Chan | nel | |

| Frequency (MHz) | Measured Power in Watts | Power Limit in Watts | Pass/Fail |
|-----------------|----------------------------|----------------------|-----------|
| 2405.023 | | | |
| Low Channel | 0.001167 | 1.00 | Pass |
| (Horizontal) | | | |
| 2405.023 | | | |
| Low Channel | 0.000369 | 1.00 | Pass |
| (Vertical) | | | |
| 2439.640 | | | |
| Middle Channel | 0.001340 | 1.00 | Pass |
| (Horizontal) | | | |
| 2439.640 | | | |
| Middle Channel | 0.000521 | 1.00 | Pass |
| (Vertical) | | | |
| 2480.490 | | | |
| High Channel | 0.001372 | 1.00 | Pass |
| (Horizontal) | | | |
| 2480.490 | | | |
| High Channel | 0.000300 | 1.00 | Pass |
| (Vertical) | | | |

A formula converts Radiated Method to Conducted Method

dBm (conducted power) = dBuV/m +20*LOG D -104.77 – Gain (dBi)





















Test Setup Photos







15.31(e) Voltage Variations

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | 15.31e | | |
| Work Order #: | 94232 | Date: | 8/20/2013 |
| Test Type: | Radiated Scan | Time: | 11:43:57 |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 5 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| - | | | | | | |
|---|----|----------|-------------------|---------------|------------------|--------------|
| | ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
| | T1 | AN02157 | Horn Antenna-ANSI | 3115 | 1/23/2013 | 1/23/2015 |
| | | | C63.5 | | | |
| | T2 | AN03302 | Cable | 32026-29094K- | 3/21/2012 | 3/21/2014 |
| | | | | 29094K-72TC | | |
| | T3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| Equipment entite 1000 (| 201). | | |
|-------------------------|--------------|------------|-------------------|
| Function | Manufacturer | Model # | S/N |
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Support Devices:

Function Manufacturer

Model #

S/N

Test Conditions / Notes:

15.31e High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz , Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF output power of the chip= 0dBm

Gain of the antenna = 1dBi

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.

15.31e: Adjust the voltage +/- 15% (102V, 138V), the Fundamental of the EUT is not changing.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | 15.31e | | |
| Work Order #: | 94232 | Date: | 8/21/2013 |
| Test Type: | Radiated Scan | Time: | 09:59:11 |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 6 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
|----|----------|----------------------------|------------------------|------------------|--------------|
| T1 | AN02157 | Horn Antenna-ANSI C63.5 | 3115 | 1/23/2013 | 1/23/2015 |
| т2 | AN03302 | Cable | 32026-29094K- | 3/21/2012 | 3/21/2014 |
| 12 | AI\03302 | Cable | 32020-2909 + K- | 5/21/2012 | 5/21/2014 |
| | | | 29094K-72TC | | |
| Т3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------|--------------|------------|-------------------|
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |
| | | | |

Model #

S/N

Support Devices:

| Function |
|----------|
|----------|

Test Conditions / Notes:

15.31e

High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz

Number of Channel: 16

Low Frequency: 2.405GHz

Middle Frequency: 2.440GHz

High Frequency: 2.480GHZ

RF output power of the chip= 1.19 dBm (DC)

Gain of the antenna= 1dBi

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only.

15.31e: Adjust the voltage +/- 15% (102V, 138V), the Fundamental of the EUT is not changing.



Test Setup Photos





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-6dBc Occupied Bandwidth

Bluetooth Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | OBW setup | | |
| Work Order #: | 94232 | Date: | 8/20/2013 |
| Test Type: | Radiated Scan | Time: | 11:43:57 |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 5 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
|----|----------|-------------------|---------------|------------------|--------------|
| T1 | AN02157 | Horn Antenna-ANSI | 3115 | 1/23/2013 | 1/23/2015 |
| | | C63.5 | | | |
| T2 | AN03302 | Cable | 32026-29094K- | 3/21/2012 | 3/21/2014 |
| | | | 29094K-72TC | | |
| T3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|-------------------------------------|--------------|------------|-------------------|
| Household Air Mattress Inflator* | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |

Model #

S/N

Support Devices:

| Function | Manufacturer |
|----------|--------------|
| unction | Wanutacturer |

Test Conditions / Notes:

High Clock: 32MHz
Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2
Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
Transmitter operating frequency: 2.4GHz
Low Frequency: 2.40GHz
Middle Frequency: 2.440GHz
High Frequency: 2.480GHZ
RF output power of the chip= 0dBm
Gain of the antenna = 1dBi
The EUT is a fixed device. It is placed on the 80 cm table and 3 meter away from a measuring antenna. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.



<u>Test Data</u>



Low Channel



Middle Channel





High Channel



Zigbee Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | OBW Setup | | |
| Work Order #: | 94232 | Date: | 8/21/2013 |
| Test Type: | Radiated Scan | Time: | 09:59:11 |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 6 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
|----|----------|-------------------|---------------|------------------|--------------|
| T1 | AN02157 | Horn Antenna-ANSI | 3115 | 1/23/2013 | 1/23/2015 |
| | | C63.5 | | | |
| T2 | AN03302 | Cable | 32026-29094K- | 3/21/2012 | 3/21/2014 |
| | | | 29094K-72TC | | |
| T3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------|--------------|------------|-------------------|
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Support Devices:

Function Manufacturer Model #

Test Conditions / Notes:

High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.405GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ RF output power of the chip= 1.19 dBm (DC) Gain of the antenna= 1dBi The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only.

S/N



<u>Test Data</u>



Low Channel



Middle Channel





High Channel



Test Setup Photos





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RSS-210 / 99% OBW and -6dB EBW Required

Bluetooth Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Bam Labs | | |
|---------------------------------|---|---|
| OBW setup | | |
| 94232 | Date: | 8/20/2013 |
| Radiated Scan | Time: | 11:43:57 |
| Household Air Mattress Inflator | Sequence#: | 5 |
| Bam Labs | Tested By: | Hieu Song Nguyenpham |
| SIQ XX00DR | | |
| CC 04 B4 00 00 8F | | |
| | Bam Labs OBW setup 94232 Radiated Scan Household Air Mattress Inflator Bam Labs SIQ XX00DR CC 04 B4 00 00 8F | Bam LabsOBW setup94232Date:Radiated ScanTime:Household Air Mattress InflatorSequence#:Bam LabsTested By:SIQ XX00DRCC 04 B4 00 00 8F |

Test Equipment:

| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
|----|----------|----------------------------|------------------------------|------------------|--------------|
| T1 | AN02157 | Horn Antenna-ANSI C63.5 | 3115 | 1/23/2013 | 1/23/2015 |
| T2 | AN03302 | Cable | 32026-29094K- 29094K-72TC | 3/21/2012 | 3/21/2014 |
| T3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------|--------------|------------|-------------------|
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Support Devices:

Function

Model #

S/N

Test Conditions / Notes: High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF output power of the chip= 0dBm

Gain of the antenna = 1dBi

The EUT is a fixed device. It is placed on the 80 cm table and 3 meter away from a measuring antenna. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.



<u>Test Data</u>



99% OBW - Low Channel









99% OBW - High Channel





-6dB EBW - Low Channel



-6dB EBW - Middle Channel





-6dB EBW - High Channel



Zigbee Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

| Customer: | Bam Labs | | |
|----------------|---------------------------------|------------|----------------------|
| Specification: | OBW Setup | | |
| Work Order #: | 94232 | Date: | 8/21/2013 |
| Test Type: | Radiated Scan | Time: | 09:59:11 |
| Equipment: | Household Air Mattress Inflator | Sequence#: | 6 |
| Manufacturer: | Bam Labs | Tested By: | Hieu Song Nguyenpham |
| Model: | SIQ XX00DR | | |
| S/N: | CC 04 B4 00 00 8F | | |

Test Equipment:

| ID | Asset # | Description | Model | Calibration Date | Cal Due Date |
|----|----------|-------------------|---------------|------------------|--------------|
| T1 | AN02157 | Horn Antenna-ANSI | 3115 | 1/23/2013 | 1/23/2015 |
| | | C63.5 | | | |
| T2 | AN03302 | Cable | 32026-29094K- | 3/21/2012 | 3/21/2014 |
| | | | 29094K-72TC | | |
| T3 | ANP01210 | Cable | FSJ1P-50A-4A | 2/19/2013 | 2/19/2015 |
| | AN02668 | Spectrum Analyzer | E4446A | 2/22/2013 | 2/22/2015 |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|------------------------|--------------|------------|-------------------|
| Household Air Mattress | Bam Labs | SIQ XX00DR | CC 04 B4 00 00 8F |
| Inflator* | | | |

Support Devices:

Function Manufacturer

Model #

S/N

Test Conditions / Notes:

| High Clock: 32MHz |
|--|
| Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 |
| Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa |
| Transmitter operating frequency: 2.4GHz |
| Low Frequency: 2.405GHz |
| Middle Frequency: 2.440GHz |
| High Frequency: 2.480GHZ |
| RF output power of the chip= 1.19 dBm (DC) |
| Gain of the antenna= 1dBi |
| |
| The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit. |
| |

Note: Zigbee is operated only.



<u>Test Data</u>







99% OBW - Middle Channel





99% OBW - High Channel





-6dB EBW- Low Channel



-6dB EBW - Middle Channel





-6dB EBW - High Channel



Test Setup Photos



