



Most Technology Service Co., Ltd.
Tel:(86) 755-26825180 Fax:(86) 755-86170310
Http:// www. szmost.com Email: szmost@szmost.com

Test Report

Product Name: Bluetooth Headset

FCC ID: WPU-TB-100T3
MODEL NO. : TB-100T3

Applicant:

True Blue Wireless Inc.
33 34th Street, 5th Floor, Brooklyn, NY 11232

Date Received: 11/20/2008

Date Tested: 11/19/2008

APPLICANT: True Blue Wireless Inc.
FCC ID: WPU-TB-100T3

Cover Sheet



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EMC Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|--------------------------------|---------------|----------------|--------------|-------------|---------------|
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 100492 | Apr 05,2008 | 1 Year |
| LISN | ROHDE&SCHWARZ | ENV216 | 100093 | Apr 05,2008 | 1Year |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101202 | Apr 05,2008 | 1 Year |
| Spectrum Analyzer | ANRITSU | MS2651B | 6200238316 | Apr 05,2008 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Apr 05,2008 | 1 Year |
| Bilog Antenna | Sunol | JB3 | A121206 | Apr 05,2008 | 1 Year |
| Horn Antenna | EMCO | 3115 | 640201028-06 | Apr 05,2008 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Apr 05,2008 | 1 Year |
| Cable | Resenberger | N/A | NO.1 | Apr 05,2008 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.2 | Apr 05,2008 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.3 | Apr 05,2008 | 1 Year |
| Single Phase Power Line Filter | Kikusui | LIN40MA-PC R-L | LM002352 | Apr 05,2008 | 1Year |
| AC Power Source | Kikusui | AC40MA | LM003232 | Apr 05,2008 | 1Year |
| Test analyzer | Kikusui | KHA1000 | LM003720 | Apr 05,2008 | 1Year |
| ESD Tester | Kikusui | KES4021 | LM003537 | Apr 05,2008 | 1 Year |
| Signal Generator | IFR | 2032 | 203002/100 | Apr 05,2008 | 1 Year |
| Amplifier | A&R | 150W1000 | 301584 | NCR | NCR |
| Dual Directional Coupler | A&R | DC6080 | 301508 | Apr 05,2008 | 1 Year |
| Power Head | A&R | PH2000 | 301193 | Apr 05,2008 | 1 Year |
| Power Meter | A&R | PM2002 | 302799 | Apr 05,2008 | 1 Year |
| Field Monitor | A&R | FM5004 | 300329 | Apr 05,2008 | 1 Year |
| Field Probe | A&R | FP5000 | 300221 | Apr 05,2008 | 1 Year |
| EMC PRO System | EM Test | UCS-500-M4 | V0648102026 | Apr 05,2008 | 1 Year |
| EMC PRO System | EM Test | UCS-500-M4 | V0648102026 | Apr 05,2008 | 1 Year |

Remark:

Test Firm Name: Most Technology Service Co., Ltd.

Test Firm Address:

No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China

FCC Registered Test Site Number: 490827

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 UH LISN. Both Lines were observed. The bandwidth of the receiver was 10 kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS
33 20 dBuV + 10.36 dB + 0.9 dB = 31.26 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.



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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

| | | |
|-----------------------------------|--------------------------------|--------------------------|
| FIELD STRENGTH of Fundamental: | FIELD STRENGTH of Harmonics | S15.209 |
| 902-928 MHz | | 30 -88 MHz 40 dBuV/m @3M |
| 2.4-2.4835 GHz | | 88 - 216 MHz 43.5 |
| | | 216 - 960 MHz 46 |
| 94 dBuV/m @3m | 54 dBuV/m @3m | ABOVE 960 MHz 54dBuV/m |

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | | | FCC 15 Subpart C Limit (dBuV/m) |
|------------------------------|----------------------|-------------------------|-------|-------|---------------------------------|
| | | Avg | QP | Peak | |
| Low frequency(2402.00MHz) | | | | | |
| 111.35 | Vertical | -- | 27.12 | 29.29 | 43.5 |
| 2402.00 | Vertical | -- | -- | 83.41 | 94.0 |
| 4804.10 | Vertical | -- | -- | 35.21 | 54.0 |
| 7206.10 | Vertical | -- | -- | 31.28 | 54.0 |
| 9608.20 | Vertical | -- | -- | 33.21 | 54.0 |
| 113.65 | Horizontal | -- | 28.45 | 30.42 | 43.5 |
| 2402.00 | Horizontal | -- | -- | 83.09 | 94.0 |
| 4804.10 | Horizontal | -- | -- | 31.20 | 54.0 |
| 7206.10 | Horizontal | -- | -- | 31.60 | 54.0 |
| 9608.20 | Horizontal | -- | -- | 33.50 | 54.0 |
| Middle frequency(2441.00MHz) | | | | | |
| 114.05 | Vertical | -- | 27.32 | 29.06 | 43.5 |
| 2441.00 | Vertical | -- | -- | 83.16 | 94.0 |
| 4882.10 | Vertical | -- | -- | 31.65 | 54.0 |
| 7323.20 | Vertical | -- | -- | 30.23 | 54.0 |
| 9764.30 | Vertical | -- | -- | 30.26 | 54.0 |
| 113.10 | Horizontal | -- | 30.41 | 32.21 | 43.5 |
| 2441.00 | Horizontal | -- | -- | 83.43 | 94.0 |
| 4882.10 | Horizontal | -- | -- | 30.29 | 54.0 |
| 7323.20 | Horizontal | -- | -- | 32.11 | 54.0 |
| 9764.30 | Horizontal | -- | -- | 30.82 | 54.0 |

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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

| | | |
|-----------------------------------|--------------------------------|--------------------------|
| FIELD STRENGTH of Fundamental: | FIELD STRENGTH of Harmonics | S15.209 |
| 902-928 MHz | | 30 -88 MHz 40 dBuV/m @3M |
| 2.4-2.4835 GHz | | 88 - 216 MHz 43.5 |
| | | 216 - 960 MHz 46 |
| 94 dBuV/m @3m | 54 dBuV/m @3m | ABOVE 960 MHz 54 dBuV/m |

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Continued:

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | | | FCC 15 Subpart C Limit (dBuV/m) |
|----------------------------|----------------------|-------------------------|-------|-------|---------------------------------|
| | | Avg | QP | Peak | |
| High frequency(2480.00MHz) | | | | | |
| 114.25 | Vertical | -- | 28.38 | 30.32 | 43.5 |
| 2480.00 | Vertical | -- | -- | 82.27 | 94.0 |
| 4960.10 | Vertical | -- | -- | 31.91 | 54.0 |
| 7440.20 | Vertical | -- | -- | 29.99 | 54.0 |
| 9920.00 | Vertical | -- | -- | 31.89 | 54.0 |
| 113.31 | Horizontal | -- | 28.45 | 30.12 | 43.5 |
| 2480.00 | Horizontal | -- | -- | 82.33 | 94.0 |
| 4960.10 | Horizontal | -- | -- | 31.59 | 54.0 |
| 7440.20 | Horizontal | -- | -- | 29.10 | 54.0 |
| 9920.00 | Horizontal | -- | -- | 30.25 | 54.0 |

TEST PROCEDURE: ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

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NAME OF TEST: Occupied Bandwidth and Band Edge Compliance

RULES PART NUMBER: 15.249

REQUIREMENTS: The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

Band edge emissions plots are included on the following pages

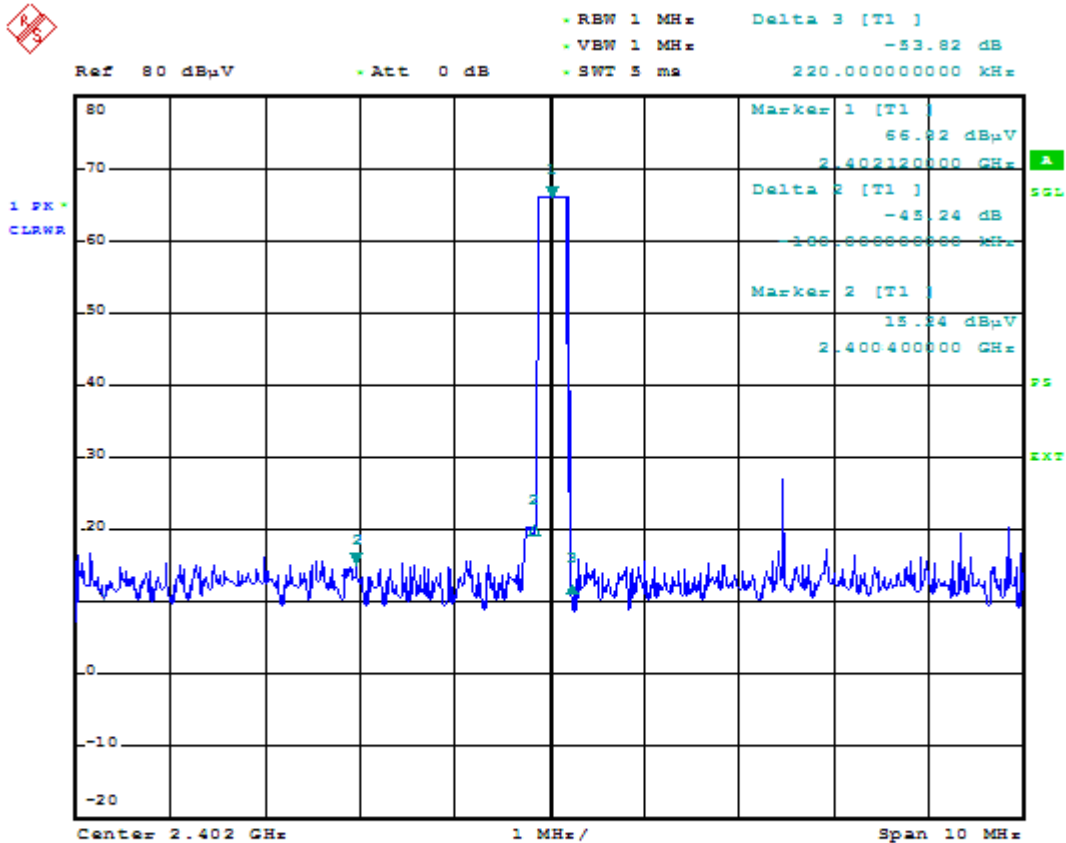
METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dB per division.

TEST RESULTS: The unit DOES meet the FCC requirements.



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Low



For band frequency 2.400GHz, test level is 15.24dBμV,

For transmitting frequency 2.402GHz, test level is 66.82dBμV,

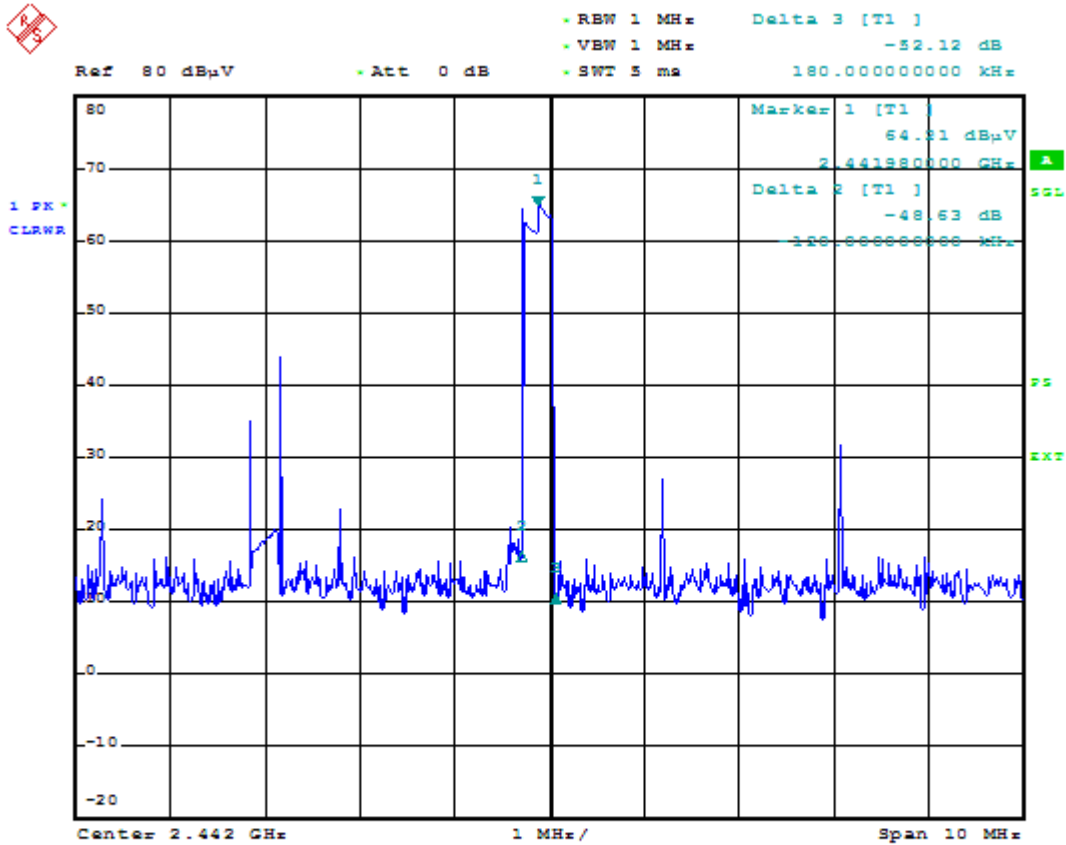
$66.82\text{dB}\mu\text{V} - 15.24\text{dB}\mu\text{V} = 51.58\text{dB} > 50\text{dB}$,

So, the EUT's Band-edge test is meet 15.249(d) request.



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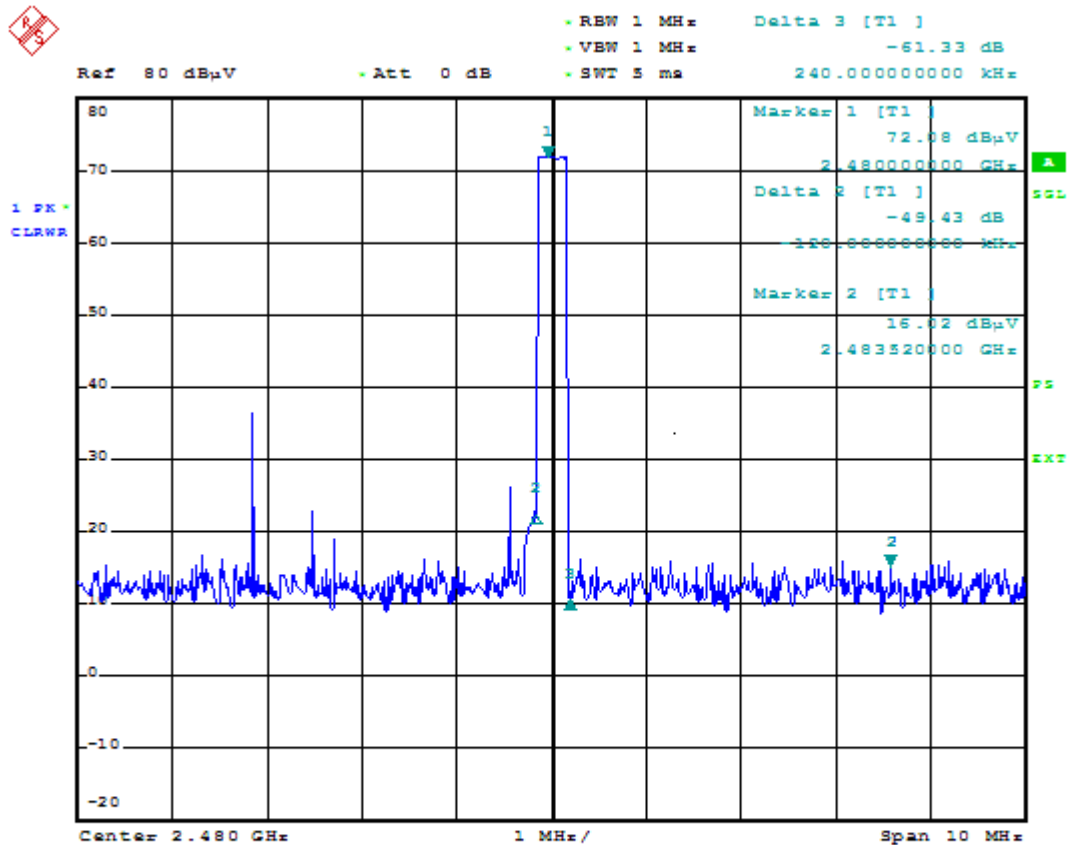
Middle





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High



For band frequency 2.4835GHz, test level is 16.02dBuV,

For transmitting frequency 2.480GHz, test level is 72.08dBuV,

$72.08\text{dBuV} - 16.02\text{dBuV} = 56.06\text{dB} > 50\text{dB}$,

So, the EUT's Band-edge test is meet 15.249(d) request.