



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: Recordable Bluetooth Headset

FCC ID: XBM06-CE-BTVR1

MODEL NO. : 06-CE-BTVR1

Applicant:

Hoffco Brands, Inc.
4860 Ward Road, Wheat Ridge, CO 8033, USA

Date Received: 05/08/2009

Date Tested: 05/07/2009

APPLICANT: Hoffco Brands, Inc.
FCC ID: XBM06-CE-BTVR1

Cover Sheet



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FCC ID: XBM06-CE-BTVR1

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EMC Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|--------------------------------|---------------|----------------|--------------|-------------|---------------|
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 100492 | Mar 10,2009 | 1 Year |
| LISN | ROHDE&SCHWARZ | ENV216 | 100093 | Mar 10,2009 | 1Year |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101202 | Mar 10,2009 | 1 Year |
| Spectrum Analyzer | ANRITSU | MS2651B | 6200238316 | Mar 10,2009 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Mar 10,2009 | 1 Year |
| Bilog Antenna | Sunol | JB3 | A121206 | Mar 10,2009 | 1 Year |
| Horn Antenna | EMCO | 3115 | 640201028-06 | Mar 10,2009 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Mar 10,2009 | 1 Year |
| Cable | Resenberger | N/A | NO.1 | Mar 10,2009 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.2 | Mar 10,2009 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.3 | Mar 10,2009 | 1 Year |
| Single Phase Power Line Filter | Kikusui | LIN40MA-PC R-L | LM002352 | Mar 10,2009 | 1Year |
| AC Power Source | Kikusui | AC40MA | LM003232 | Mar 10,2009 | 1Year |
| Test analyzer | Kikusui | KHA1000 | LM003720 | Mar 10,2009 | 1Year |
| ESD Tester | Kikusui | KES4021 | LM003537 | Mar 10,2009 | 1 Year |
| Signal Generator | IFR | 2032 | 203002/100 | Mar 10,2009 | 1 Year |
| Amplifier | A&R | 150W1000 | 301584 | NCR | NCR |
| Dual Directional Coupler | A&R | DC6080 | 301508 | Mar 10,2009 | 1 Year |
| Power Head | A&R | PH2000 | 301193 | Mar 10,2009 | 1 Year |
| Power Meter | A&R | PM2002 | 302799 | Mar 10,2009 | 1 Year |
| Field Monitor | A&R | FM5004 | 300329 | Mar 10,2009 | 1 Year |
| Field Probe | A&R | FP5000 | 300221 | Mar 10,2009 | 1 Year |
| EMC PRO System | EM Test | UCS-500-M4 | V0648102026 | Mar 10,2009 | 1 Year |
| EMC PRO System | EM Test | UCS-500-M4 | V0648102026 | Mar 10,2009 | 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

APPLICANT: Hoffco Brands, Inc.

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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 10kHz 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. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

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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APPLICANT: Hoffco Brands, Inc.
FCC ID: XBM06-CE-BTVR1
NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE
RULES PART NUMBER: 15.207

REQUIREMENTS:

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|------------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

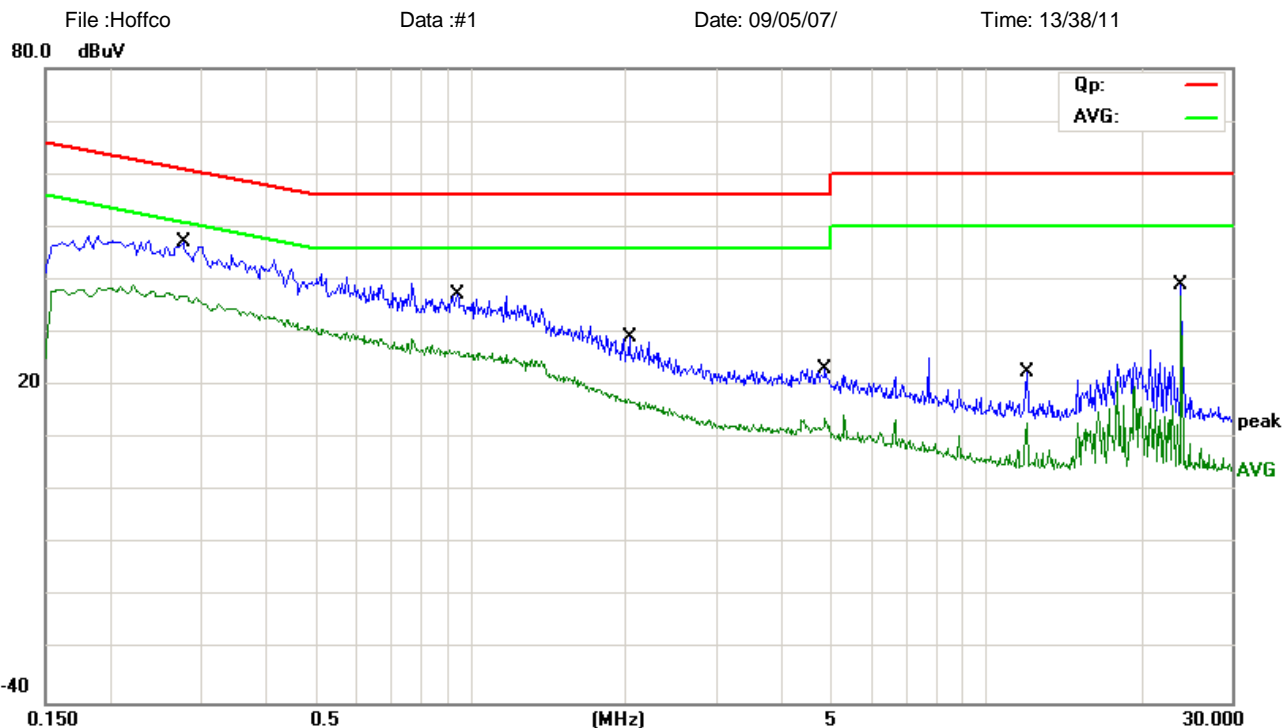
TEST PROCEDURE: ANSI STANDARD C63.4-2003

THE HIGHEST EMISSION READ FOR LINE 1 WAS 47.00dBuV @ 0.278MHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 42.53dBuV @ 0.454MHz.

THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.

Conducted Emission Measurement



Site site #1

Phase: **L1**

Temperature: 26

Limit: FCC Part15 C QP

Power: DC 5V Adaptor AC 120V/60Hz Humidity: 60 %

EUT: Recordable Bluetooth Headset

M/N: 06-CE-BTVR1

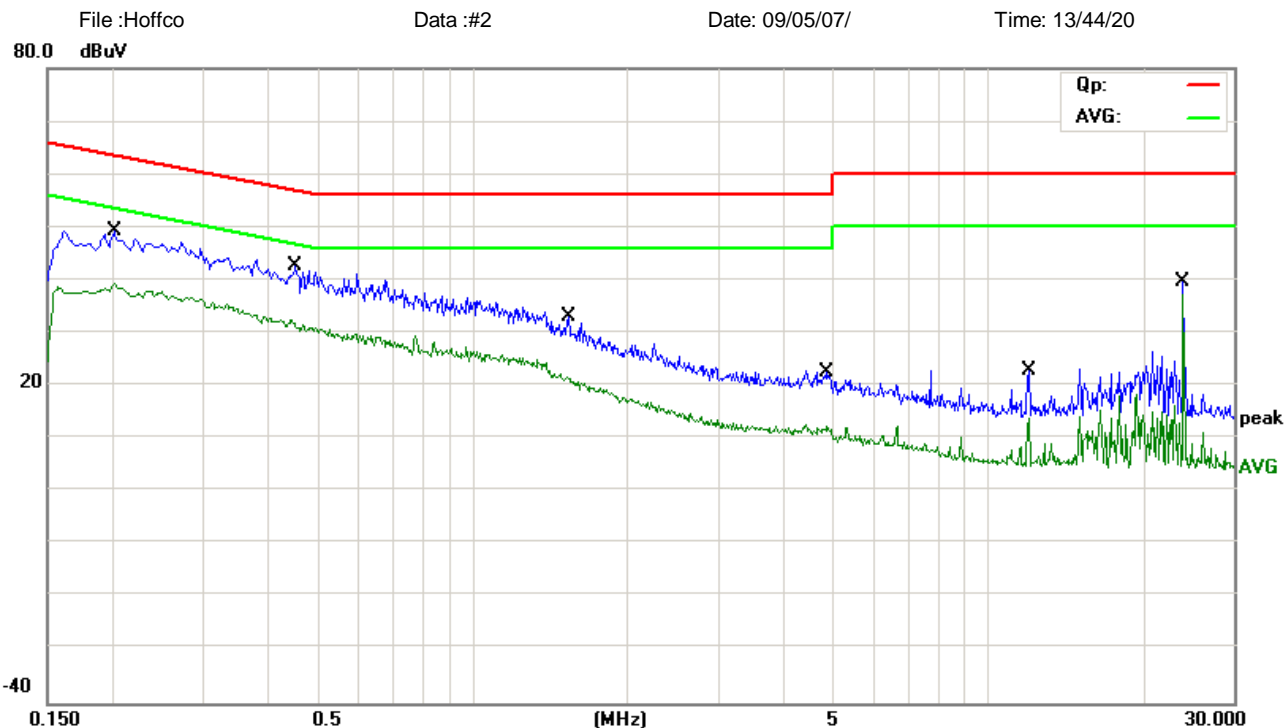
Mode: Charging

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|--------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.2780 | 35.52 | 11.48 | 47.00 | 60.88 | -13.88 | QP | |
| 2 | | 0.9460 | 27.17 | 10.00 | 37.17 | 56.00 | -18.83 | QP | |
| 3 | | 2.0380 | 19.99 | 9.04 | 29.03 | 56.00 | -26.97 | QP | |
| 4 | | 4.8940 | 11.19 | 11.89 | 23.08 | 56.00 | -32.92 | QP | |
| 5 | | 12.0020 | 13.67 | 9.00 | 22.67 | 60.00 | -37.33 | QP | |
| 6 | | 24.0020 | 30.11 | 9.00 | 39.11 | 60.00 | -20.89 | QP | |

*:Maximum data x:Over limit !:over margin

Conducted Emission Measurement



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 C QP

Power: DC 5V Adaptor AC 120V/60Hz

Humidity: 60 %

EUT: Recordable Bluetooth Headset

M/N: 06-CE-BTVR1

Mode: Charging

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.2020 | 37.20 | 11.99 | 49.19 | 63.53 | -14.34 | QP | |
| 2 | * | 0.4540 | 32.22 | 10.31 | 42.53 | 56.80 | -14.27 | QP | |
| 3 | | 1.5380 | 23.59 | 9.46 | 33.05 | 56.00 | -22.95 | QP | |
| 4 | | 4.8940 | 10.52 | 11.89 | 22.41 | 56.00 | -33.59 | QP | |
| 5 | | 12.0020 | 13.89 | 9.00 | 22.89 | 60.00 | -37.11 | QP | |
| 6 | | 24.0020 | 30.63 | 9.00 | 39.63 | 60.00 | -20.37 | QP | |

*:Maximum data x:Over limit !:over margin



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APPLICANT: Hoffco Brands, Inc.
FCC ID: XBM06-CE-BTVR1
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) | | | | | |
| 341.89 | Vertical | --- | 30.93 | 34.01 | 46.0 |
| 2402.05 | Vertical | --- | --- | 86.24 | 94.0 |
| 4804.11 | Vertical | --- | --- | 32.09 | 54.0 |
| 7206.10 | Vertical | --- | --- | 32.14 | 54.0 |
| 9608.20 | Vertical | --- | --- | 32.19 | 54.0 |
| 319.70 | Horizontal | --- | 33.20 | 35.60 | 46.0 |
| 2402.09 | Horizontal | --- | --- | 85.46 | 94.0 |
| 4804.01 | Horizontal | --- | --- | 34.64 | 54.0 |
| 7206.03 | Horizontal | --- | --- | 32.52 | 54.0 |
| 9608.12 | Horizontal | --- | --- | 30.10 | 54.0 |
| Middle frequency (2441.00MHz) | | | | | |
| 341.93 | Vertical | --- | 31.24 | 34.55 | 46.0 |
| 2441.32 | Vertical | --- | --- | 85.59 | 94.0 |
| 4882.10 | Vertical | --- | --- | 32.27 | 54.0 |
| 7323.03 | Vertical | --- | --- | 30.43 | 54.0 |
| 9764.30 | Vertical | --- | --- | 32.80 | 54.0 |
| 319.54 | Horizontal | --- | 34.01 | 36.10 | 46.0 |
| 2441.00 | Horizontal | --- | --- | 84.84 | 94.0 |
| 4882.11 | Horizontal | --- | --- | 32.16 | 54.0 |
| 7323.20 | Horizontal | --- | --- | 31.20 | 54.0 |
| 9764.09 | Horizontal | --- | --- | 30.19 | 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 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.

Continued:

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | | | FCC 15 Subpart C Limit(dBuV/m) |
|-----------------------------|-------------------------|-------------------------|-------|-------|-----------------------------------|
| | | Avg | QP | Peak | |
| High frequency (2480.00MHz) | | | | | |
| 342.08 | Vertical | --- | 32.45 | 35.38 | 46.0 |
| 2480.29 | Vertical | --- | --- | 87.05 | 94.0 |
| 4960.10 | Vertical | --- | --- | 31.43 | 54.0 |
| 7440.01 | Vertical | --- | --- | 32.24 | 54.0 |
| 9920.05 | Vertical | --- | --- | 31.32 | 54.0 |
| 319.21 | Horizontal | --- | 31.92 | 34.56 | 46.0 |
| 2480.08 | Horizontal | --- | --- | 85.24 | 94.0 |
| 4960.10 | Horizontal | --- | --- | 32.24 | 54.0 |
| 7440.20 | Horizontal | --- | --- | 30.09 | 54.0 |
| 9920.02 | Horizontal | --- | --- | 34.63 | 54.0 |

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

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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APPLICANT: Hoffco Brands, Inc.
FCC ID: XBM06-CE-BTVR1
NAME OF TEST: Occupied Bandwidth and Band Edge Compliance
RULES PART NUMBER: 15.249, 15.209

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 15.209.

Occupied Bandwidth 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.

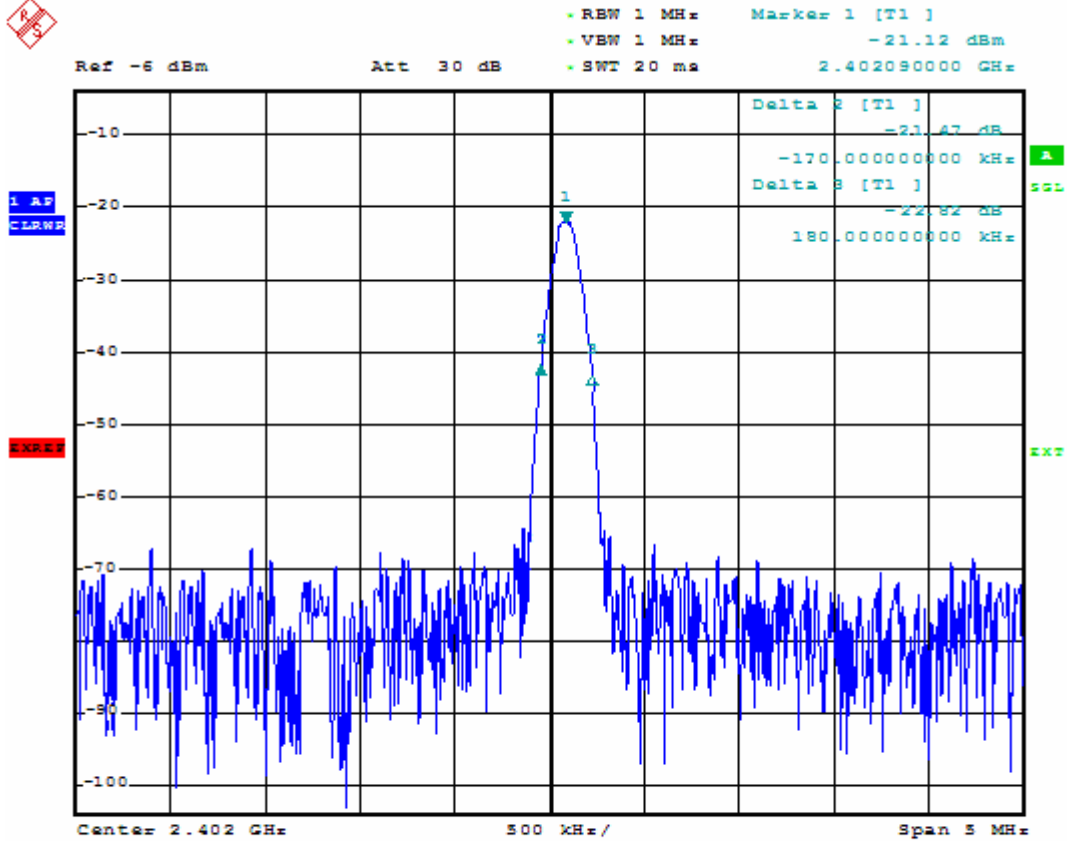
TEST RESULTS: The unit does meet the FCC requirements.

| Band Edge Compliance Test | | | | | | |
|---------------------------|----------------------|-----------|-----------|-------------|---------------------|-------------------|
| Band Edge Frequency | Antenna Polarization | AV dBuV/m | QP dBuV/m | Peak dBuV/m | Limit (Peak) dBuV/m | Limit (AV) dBuV/m |
| 2390.0 MHz | H | 45.10 | --- | 56.05 | 74.00 | 54.00 |
| 2390.0 MHz | V | 43.37 | --- | 55.18 | 74.00 | 54.00 |
| 2483.5 MHz | H | 44.19 | --- | 54.39 | 74.00 | 54.00 |
| 2483.5 MHz | V | 43.28 | --- | 54.02 | 74.00 | 54.00 |



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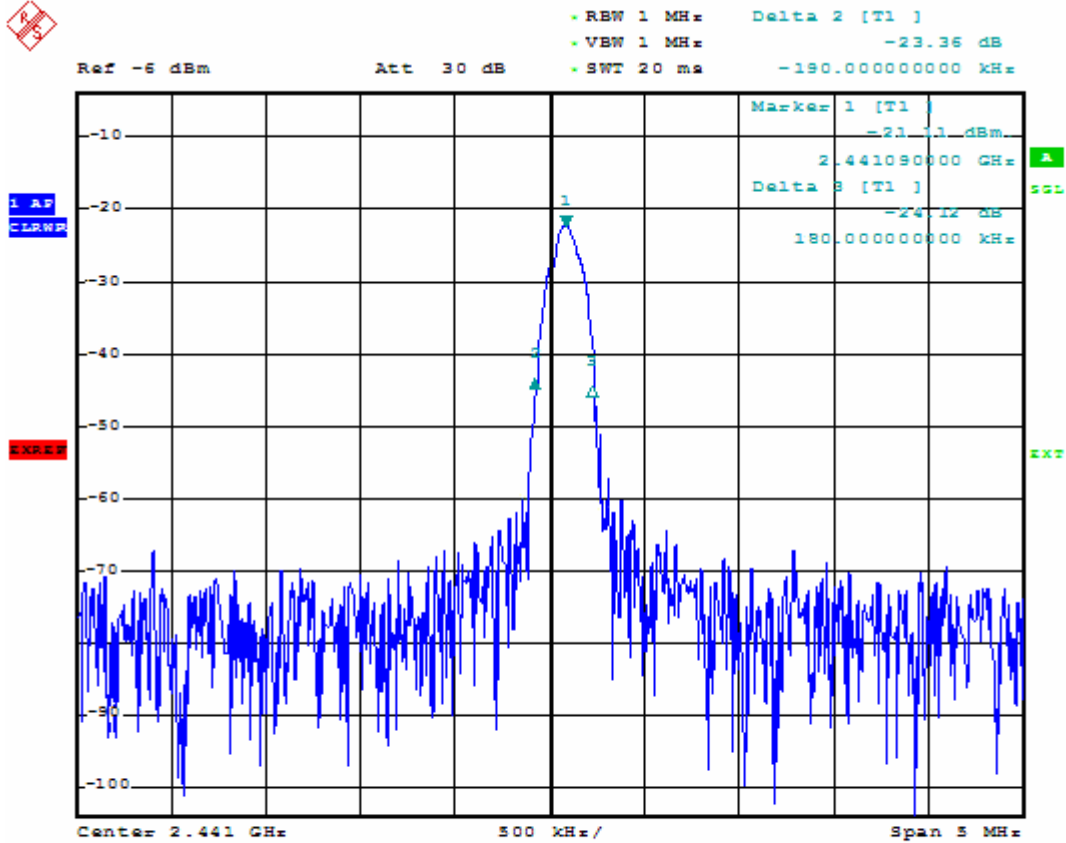
Low





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Middle





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High

