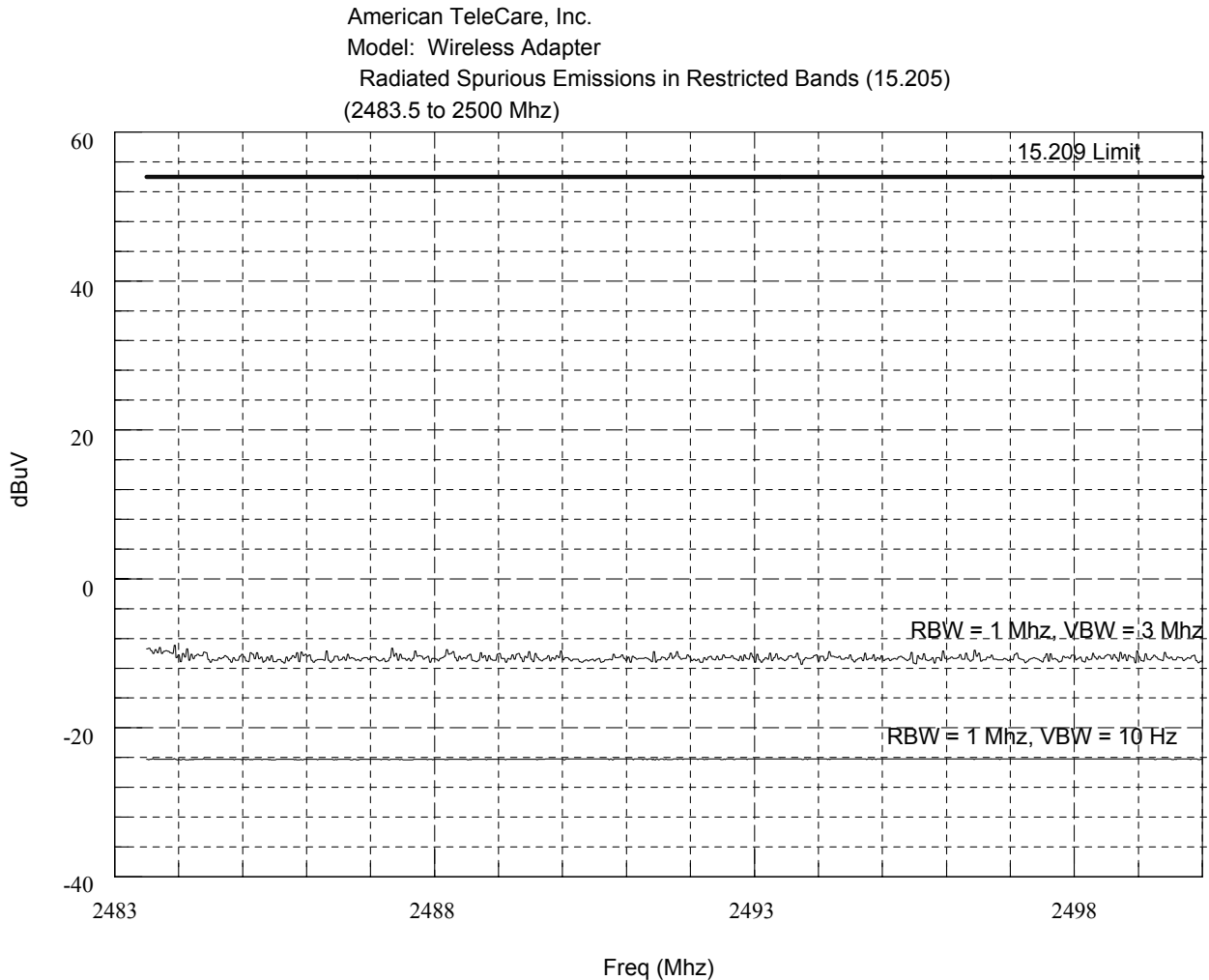


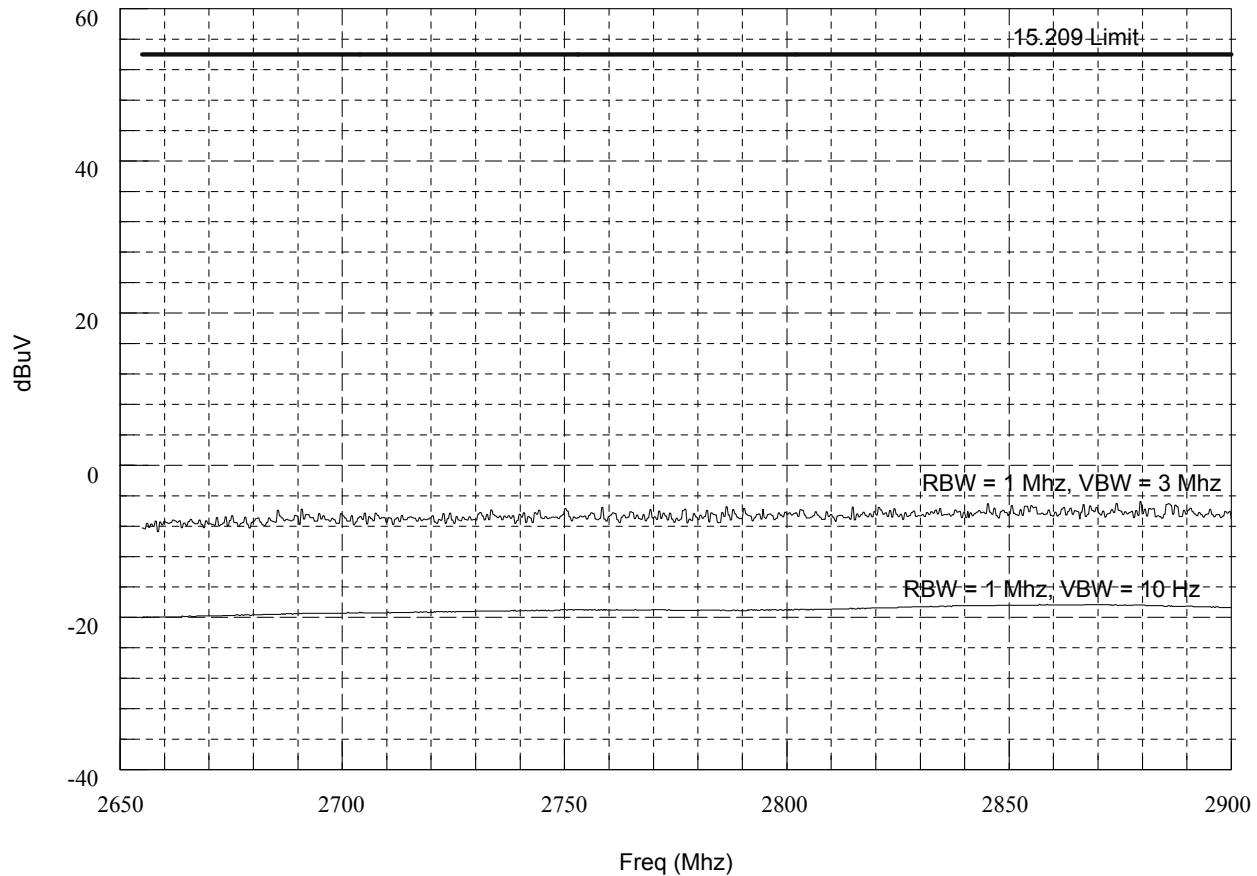
Spurious RF Radiated Emissions

As required by the FCC guidelines for testing this device, two plots are drawn on each graph. The first one is with the Video Bandwidth set at 3 times the Resolution Bandwidth (i.e. RBW = 1 Mhz, VBW = 3 Mhz) with the Peak Detector ON and the second plot is with the Video Bandwidth changed to VBW = 10 Hz to effect an AVERAGE detection of the signal. Also, since the dwell time per channel was less than 100 mS, the reading obtained with the 10 Hz VBW was adjusted by a "duty cycle correction factor" derived from 20 LOG (Dwell time/100 mS), in an effort to demonstrate compliance with the 15.209 limit.



Spurious RF Radiated Emissions

American TeleCare, Inc.
Model: Wireless Adapter
Radiated Spurious Emissions in Restricted Bands (15.205)
(2655 to 2900 Mhz)



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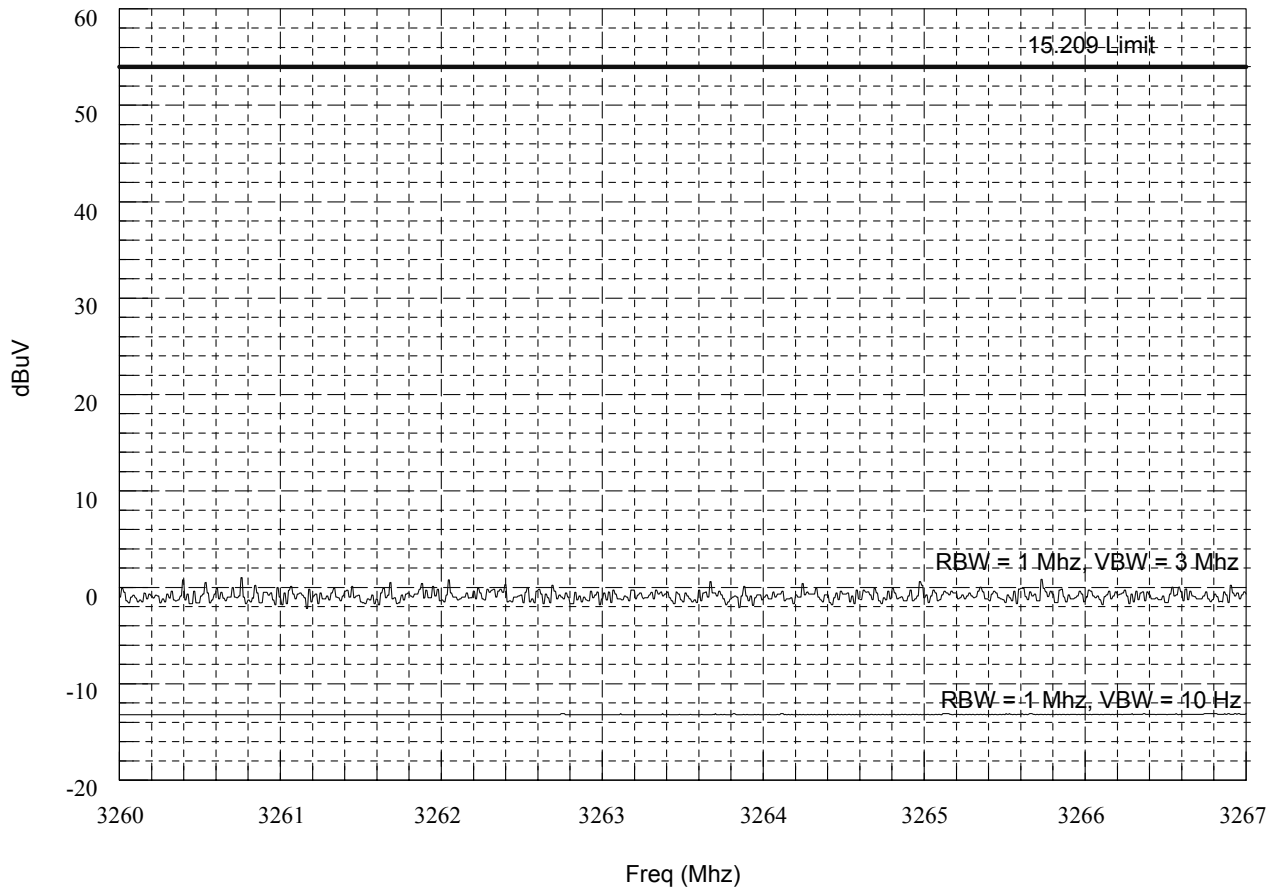
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(3260 to 3267 Mhz)



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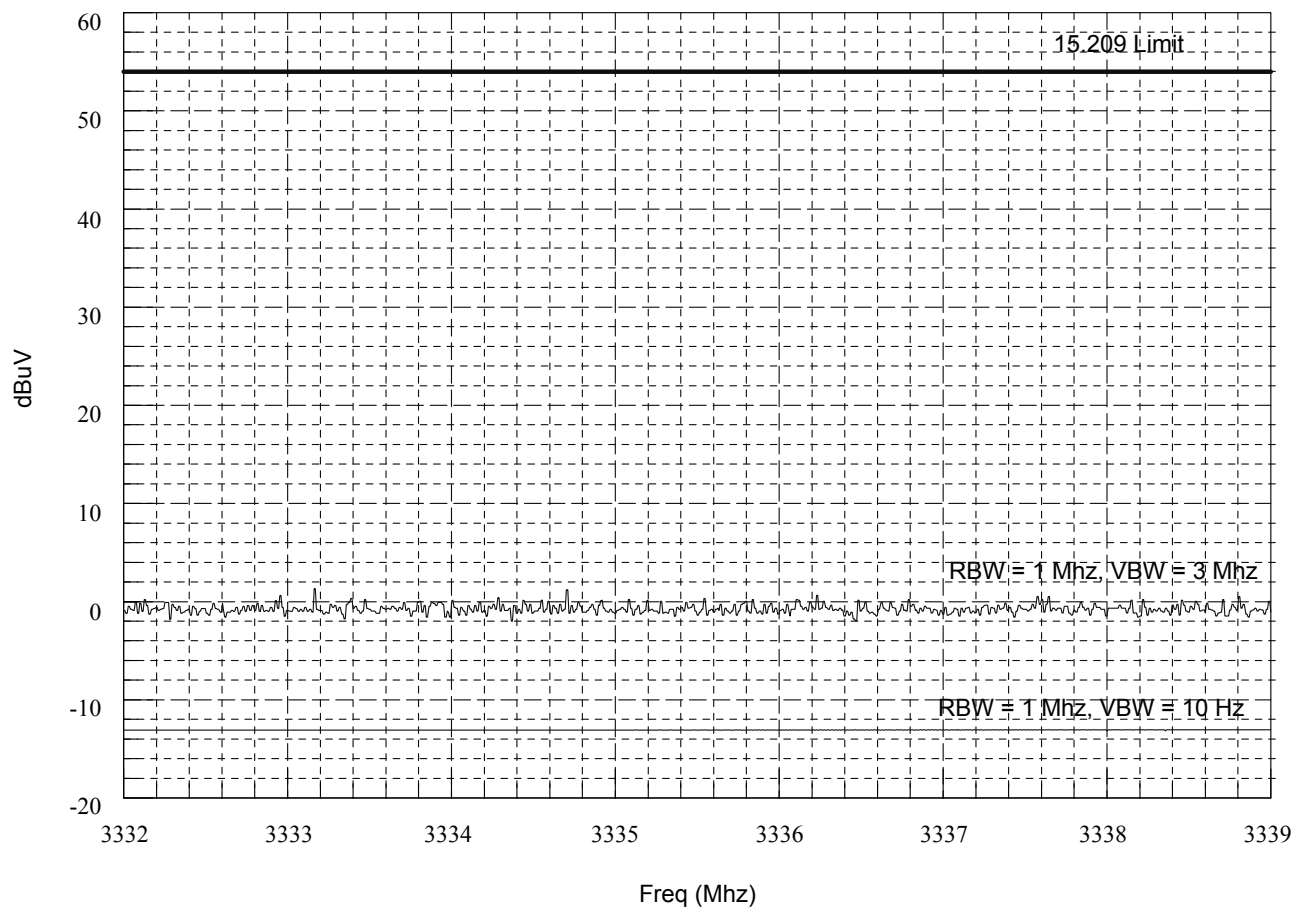
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(3332 to 3339 Mhz)



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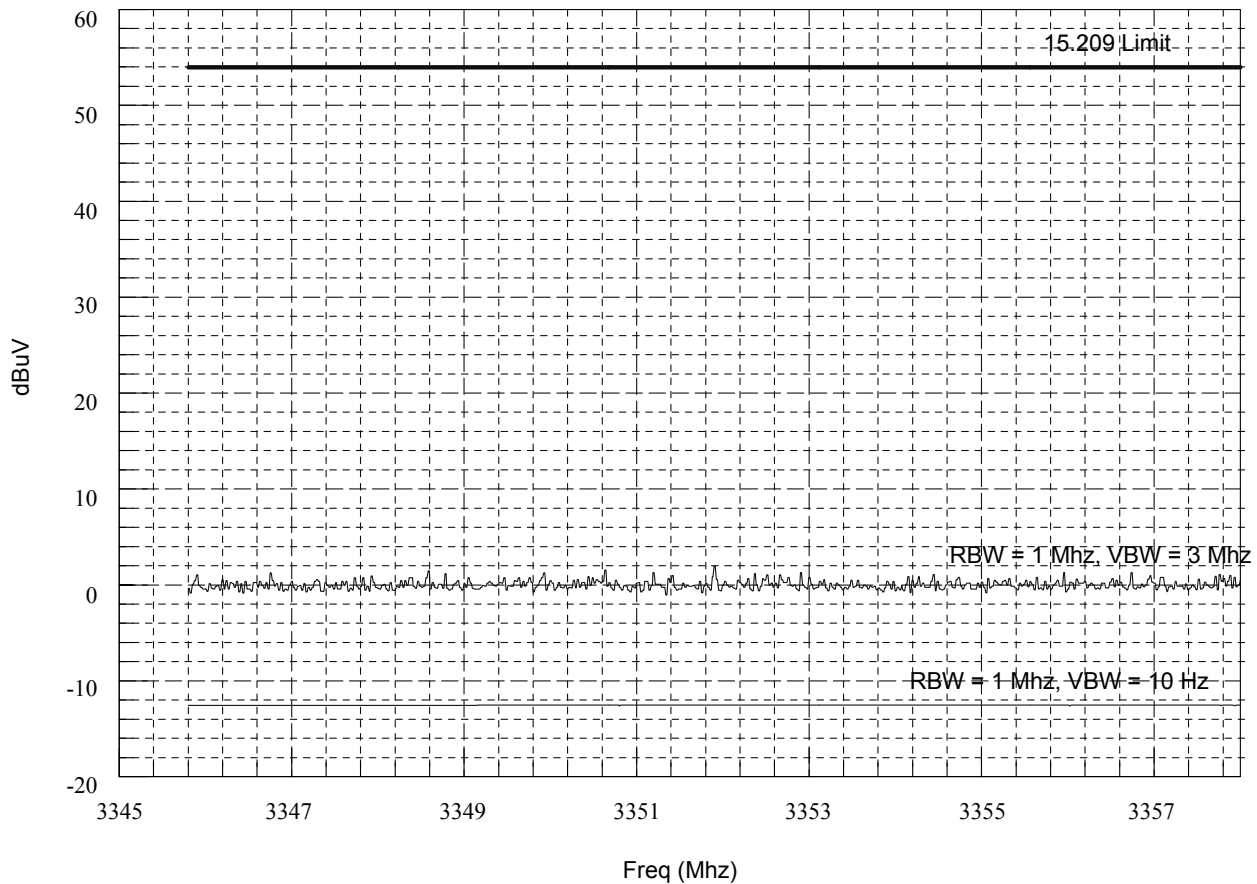
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Spurious RF Radiated Emissions

American TeleCare, Inc.
Model: Wireless Adapter
Radiated Spurious Emissions in Restricted Bands (15.205)
(3345.8 to 3358 Mhz)



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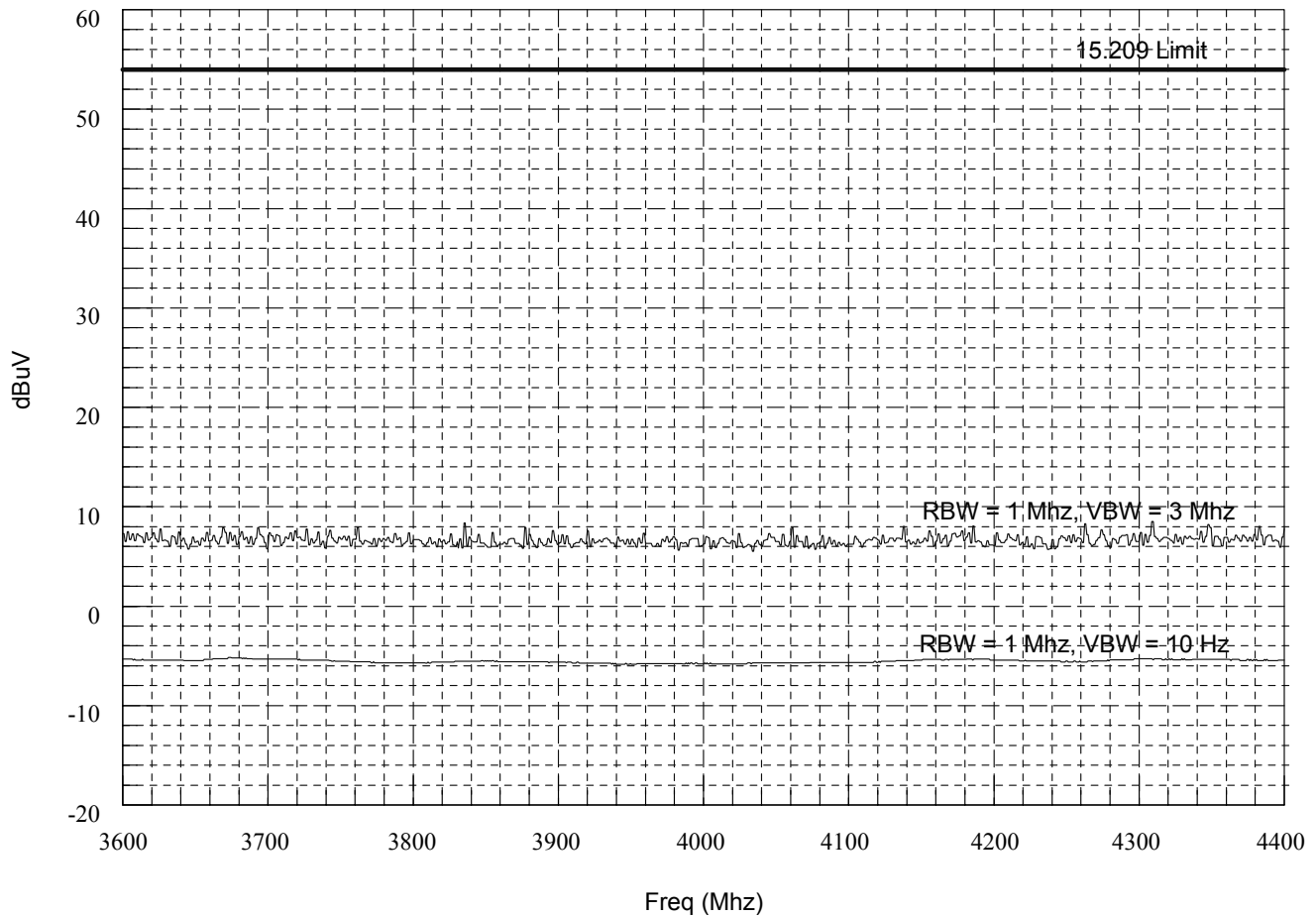
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(3600 to 4400 Mhz)



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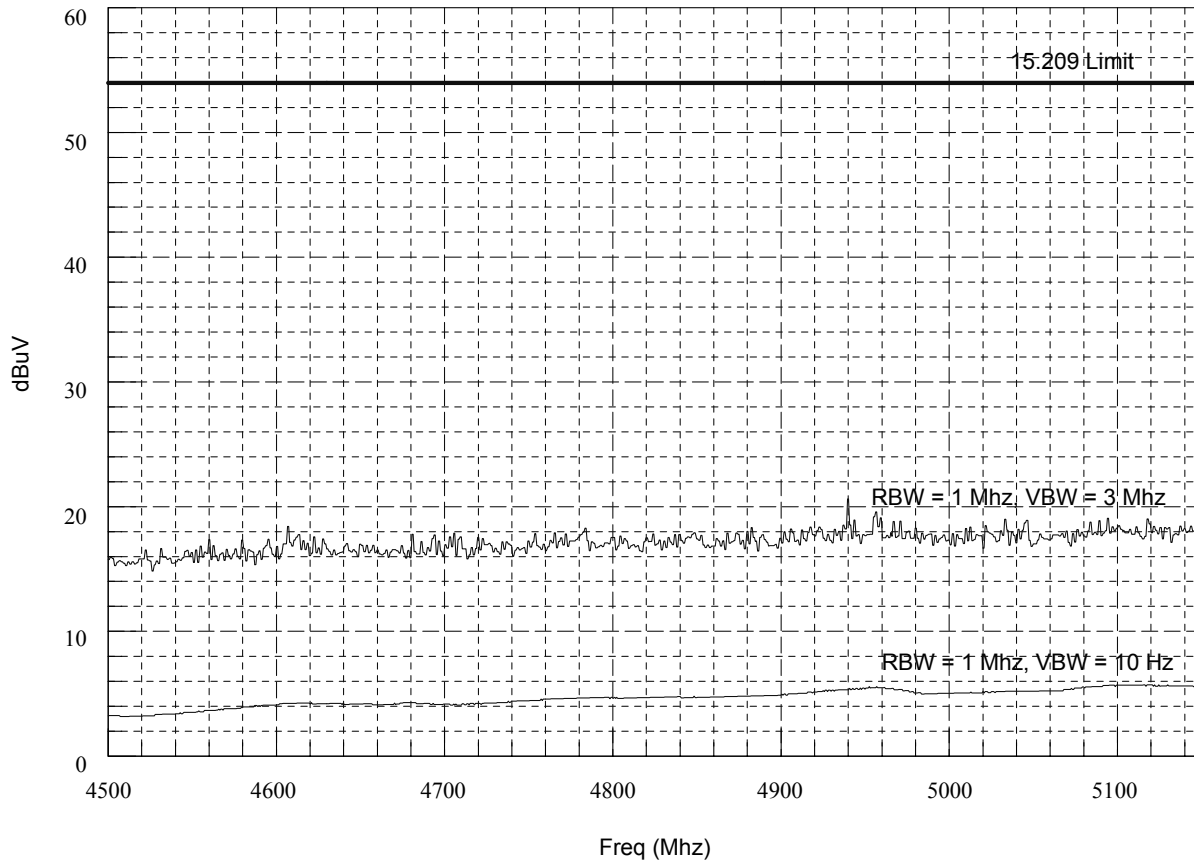
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(4500 to 5150 Mhz)



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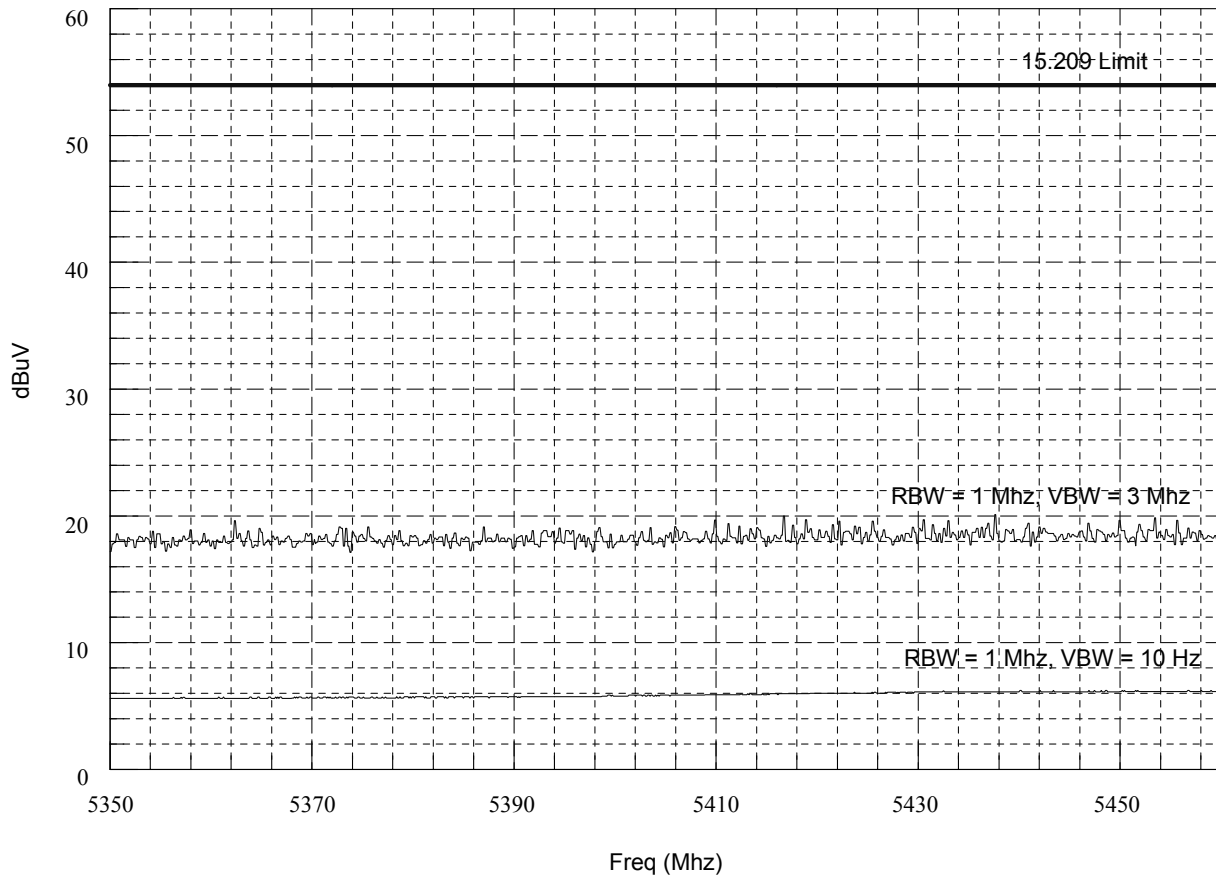
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(5350 to 5460 Mhz)



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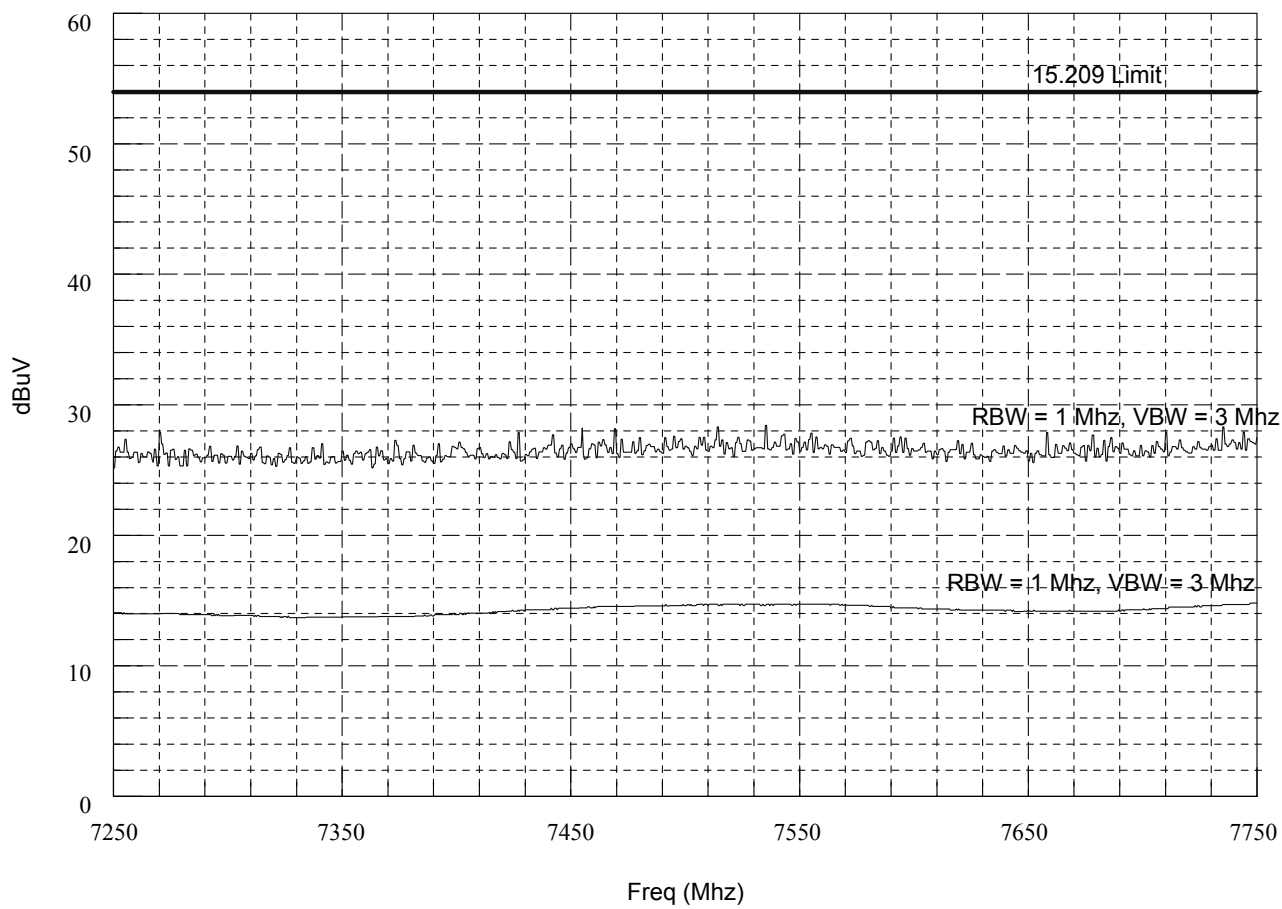
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(7250 to 7750 Mhz)



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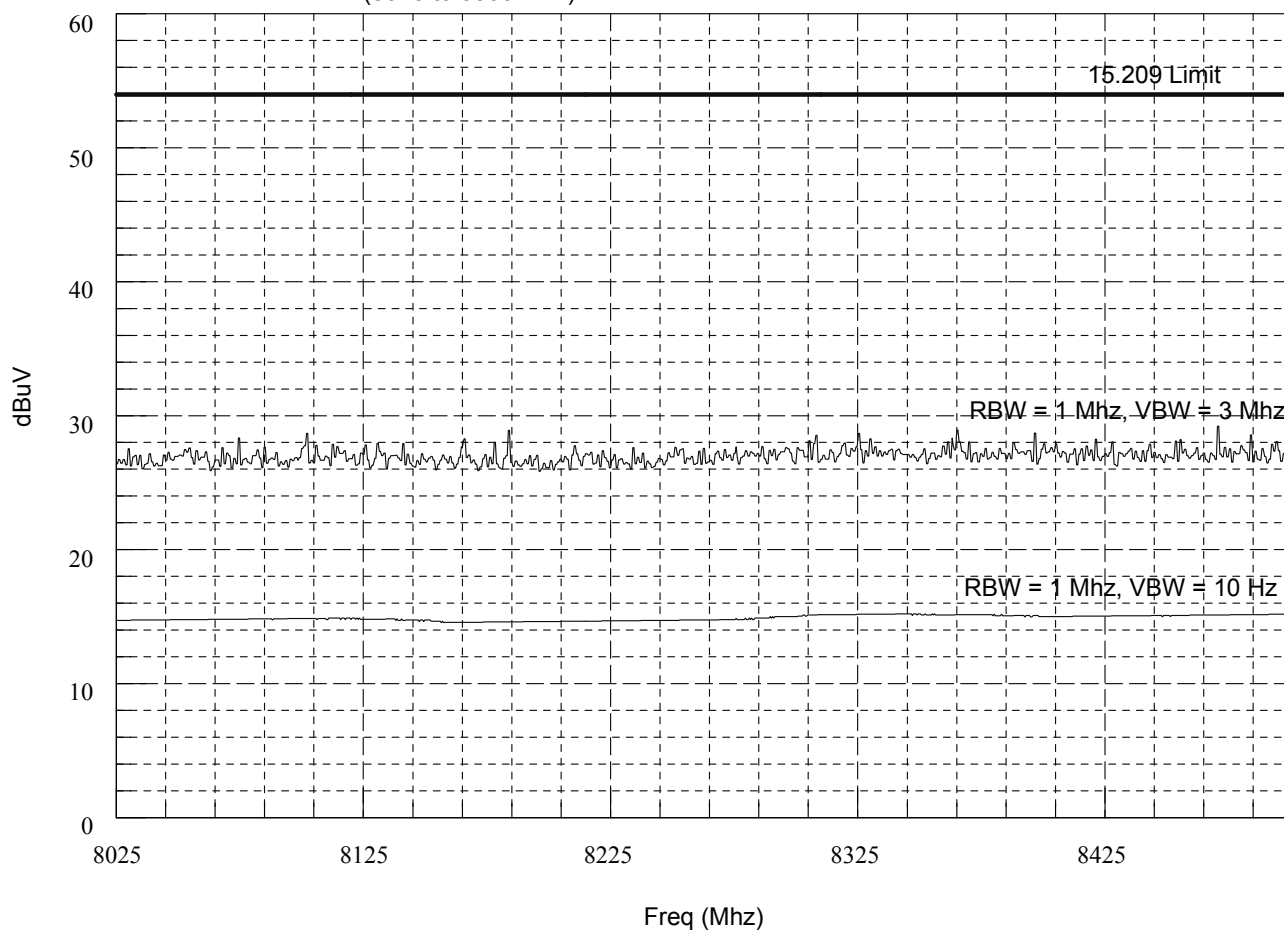
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(8025 to 8500 Mhz)



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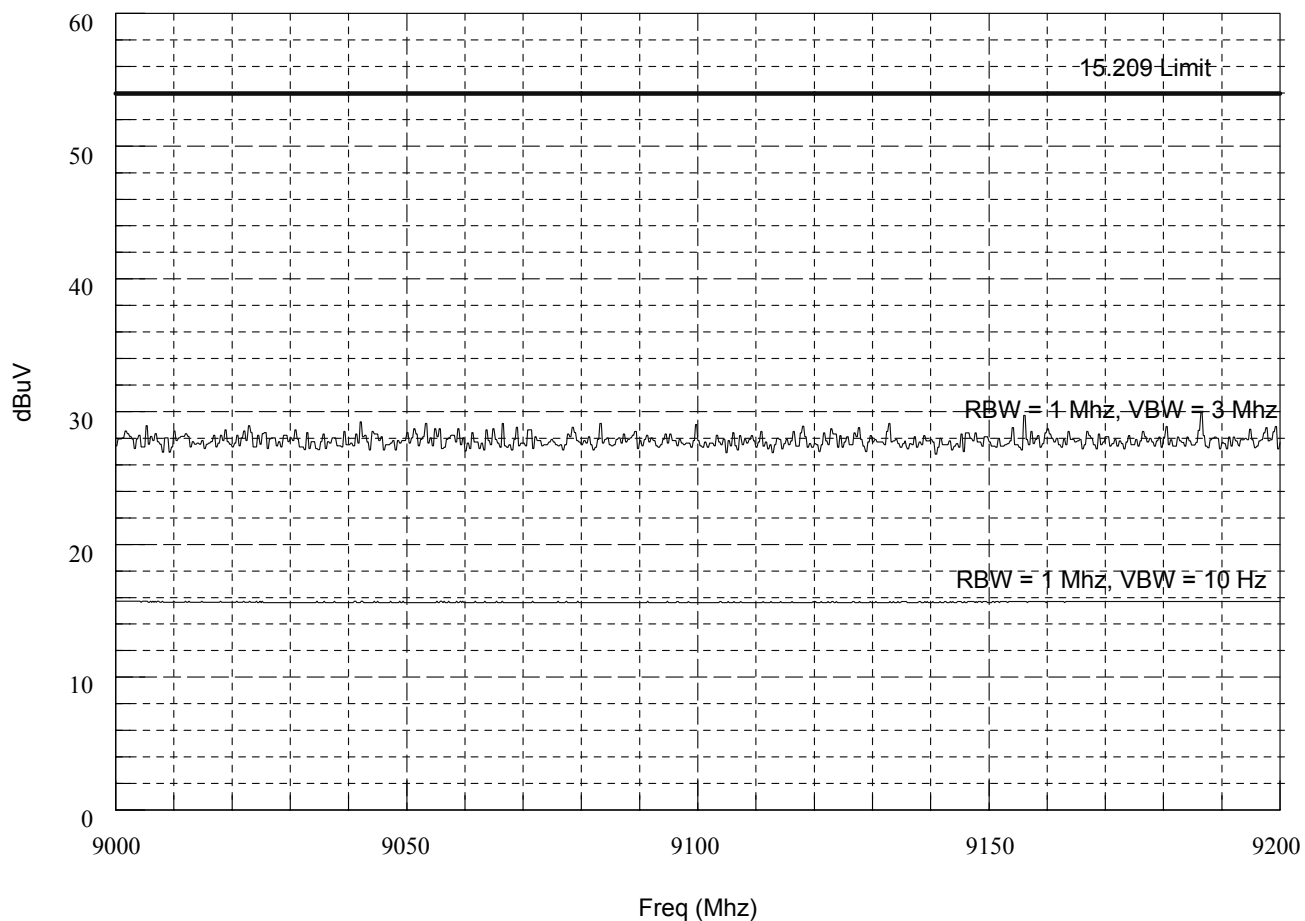
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Spurious RF Radiated Emissions

American TeleCare, Inc.
Model: Wireless Adapter
Radiated Spurious Emissions in Restricted Bands (15.205)
(9000 to 9200 Mhz)



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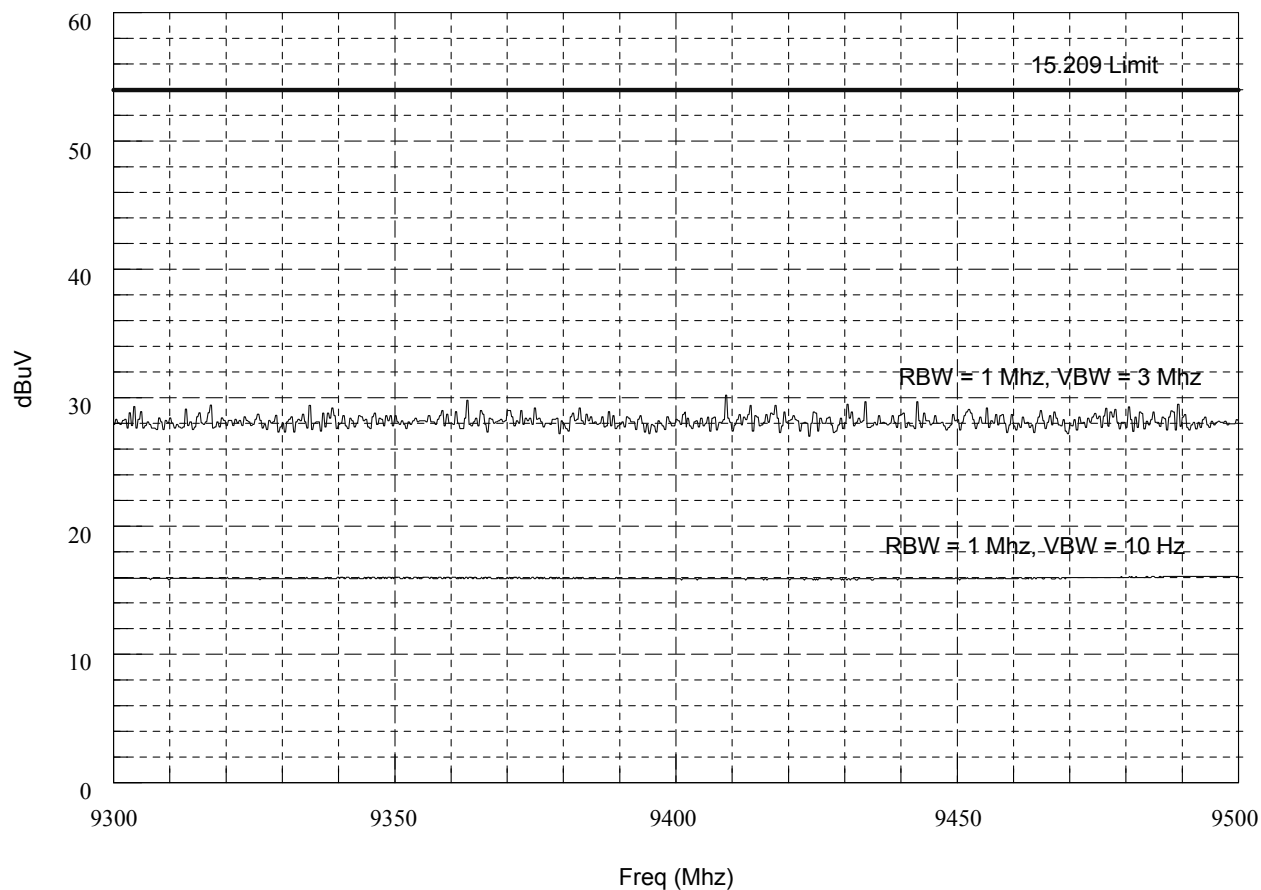
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Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(9300 to 9500 Mhz)



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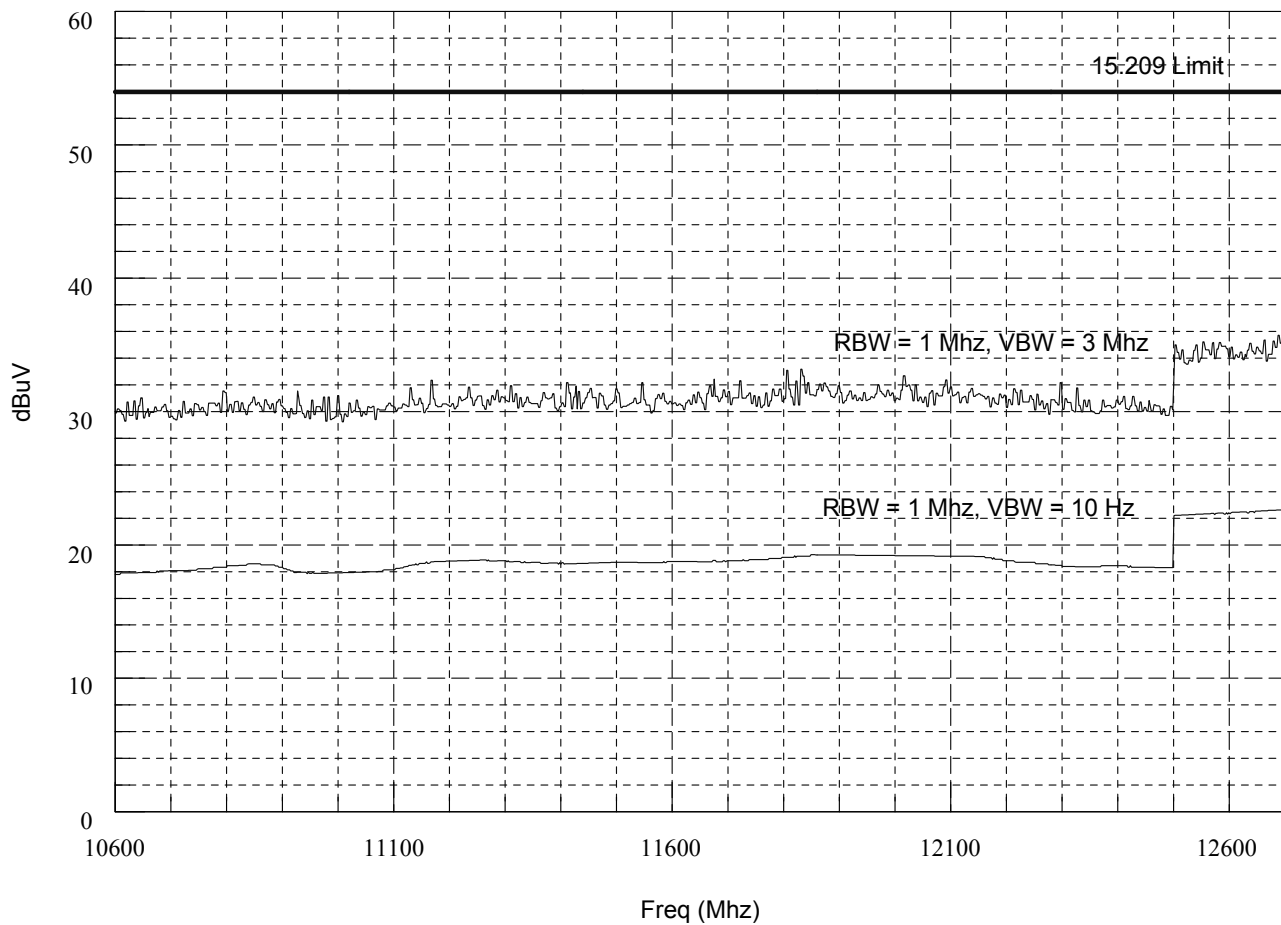
Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)

(10600 to 12700 Mhz)



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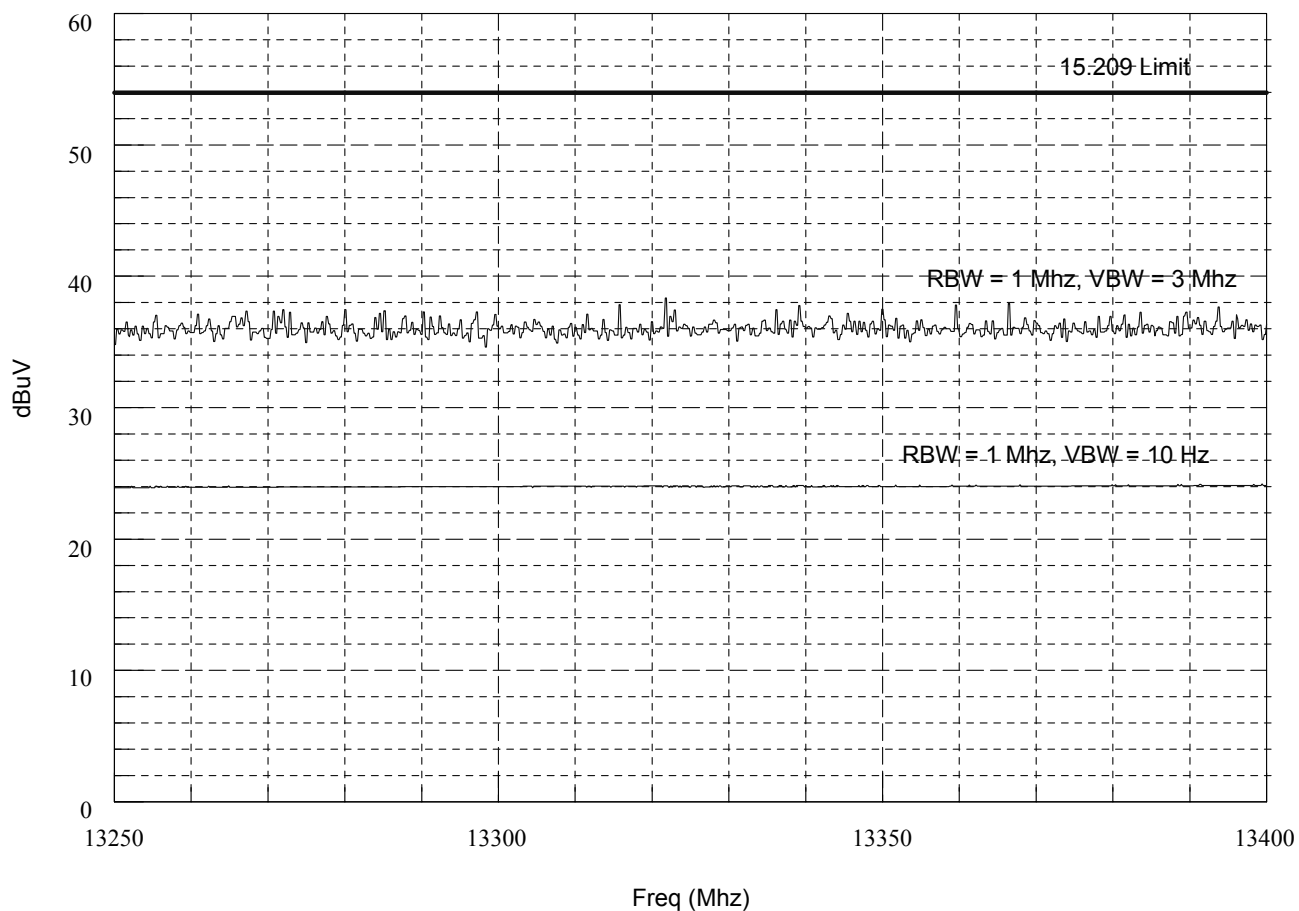
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Spurious RF Radiated Emissions

American TeleCare, Inc.
Model: Wireless Adapter
Radiated Spurious Emissions in Restricted Bands (15.205)
(13250 to 13400 Mhz)



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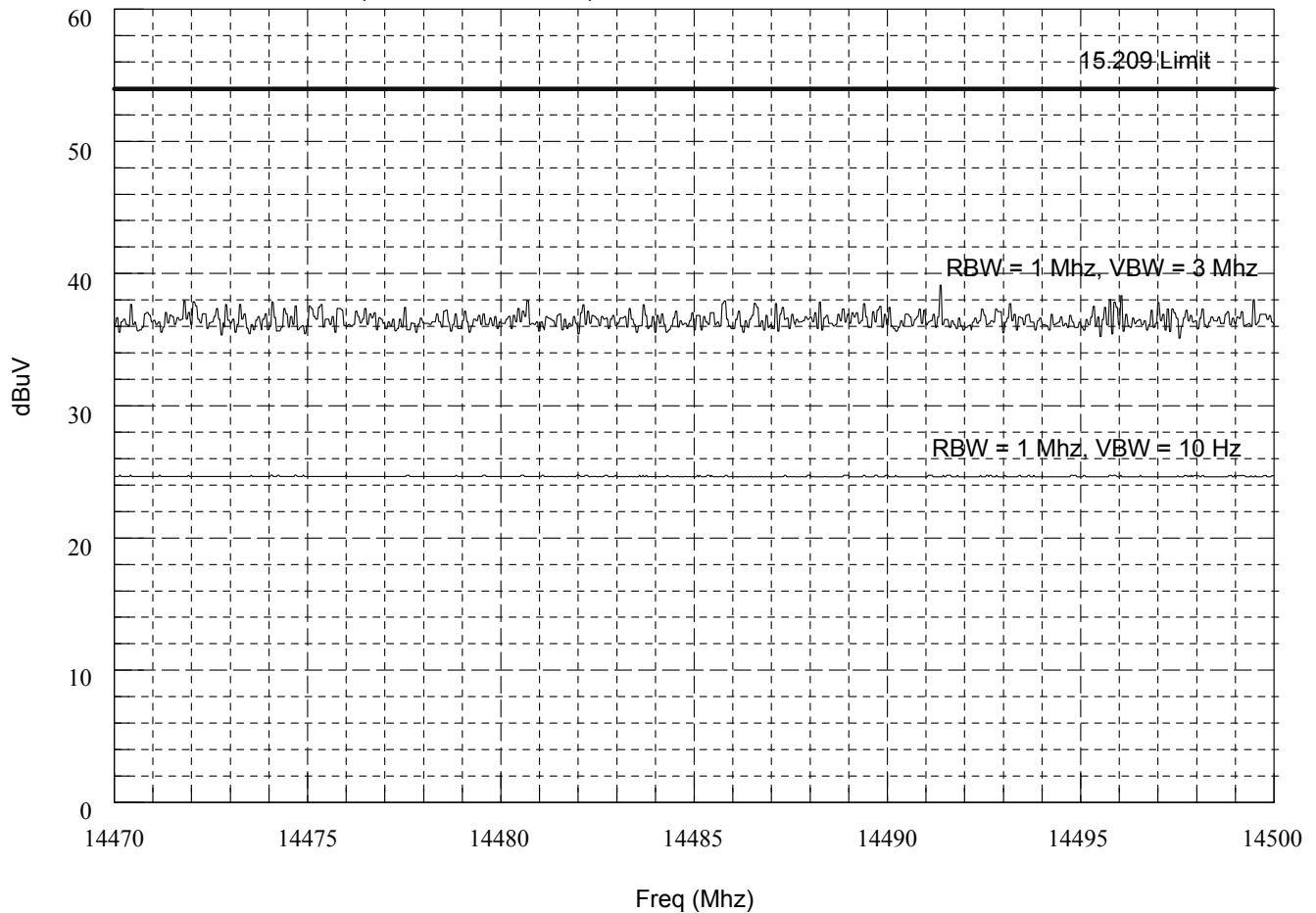
CERTIFICATION SERVICES, INC.

Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(14470 to 14500 Mhz)



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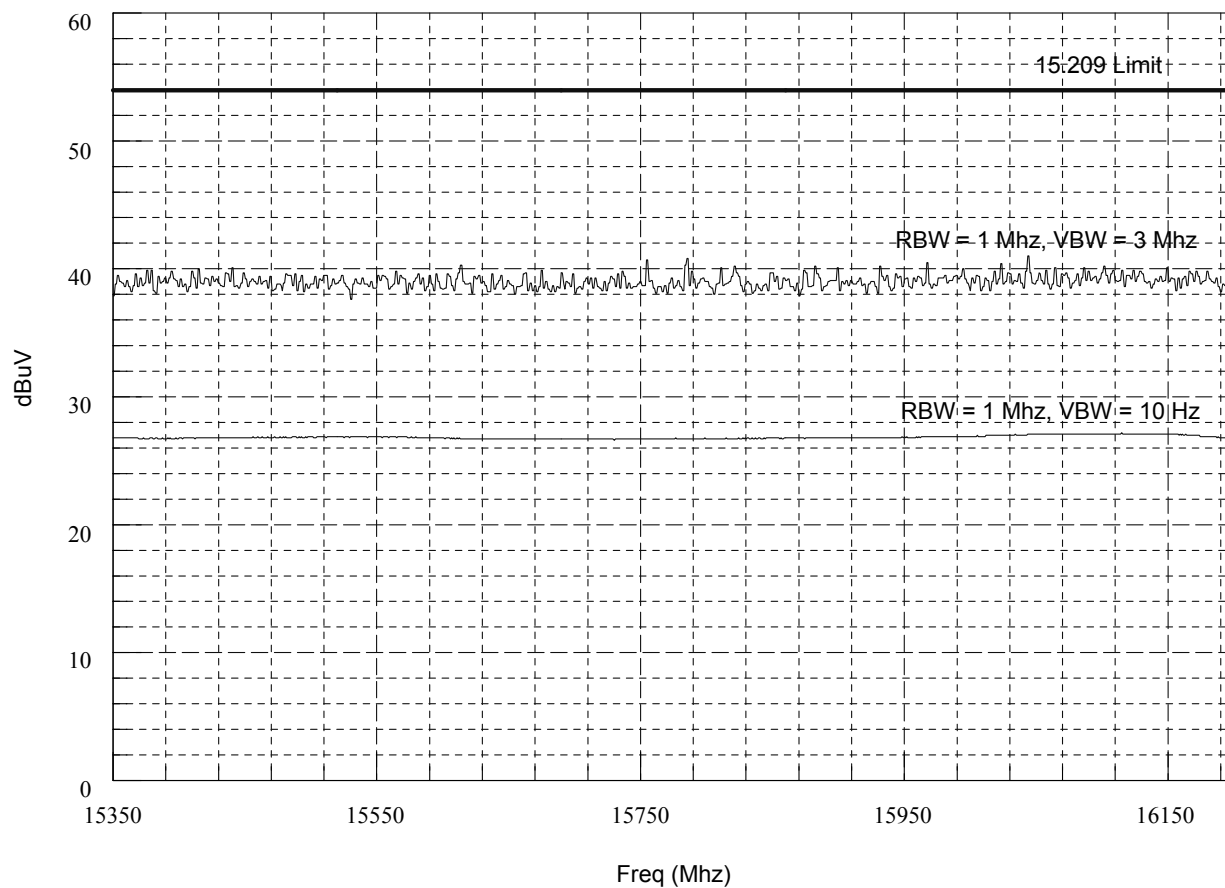
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Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)
(15350 to 16200 Mhz)



International Certification Services, Inc.

October 8, 2002

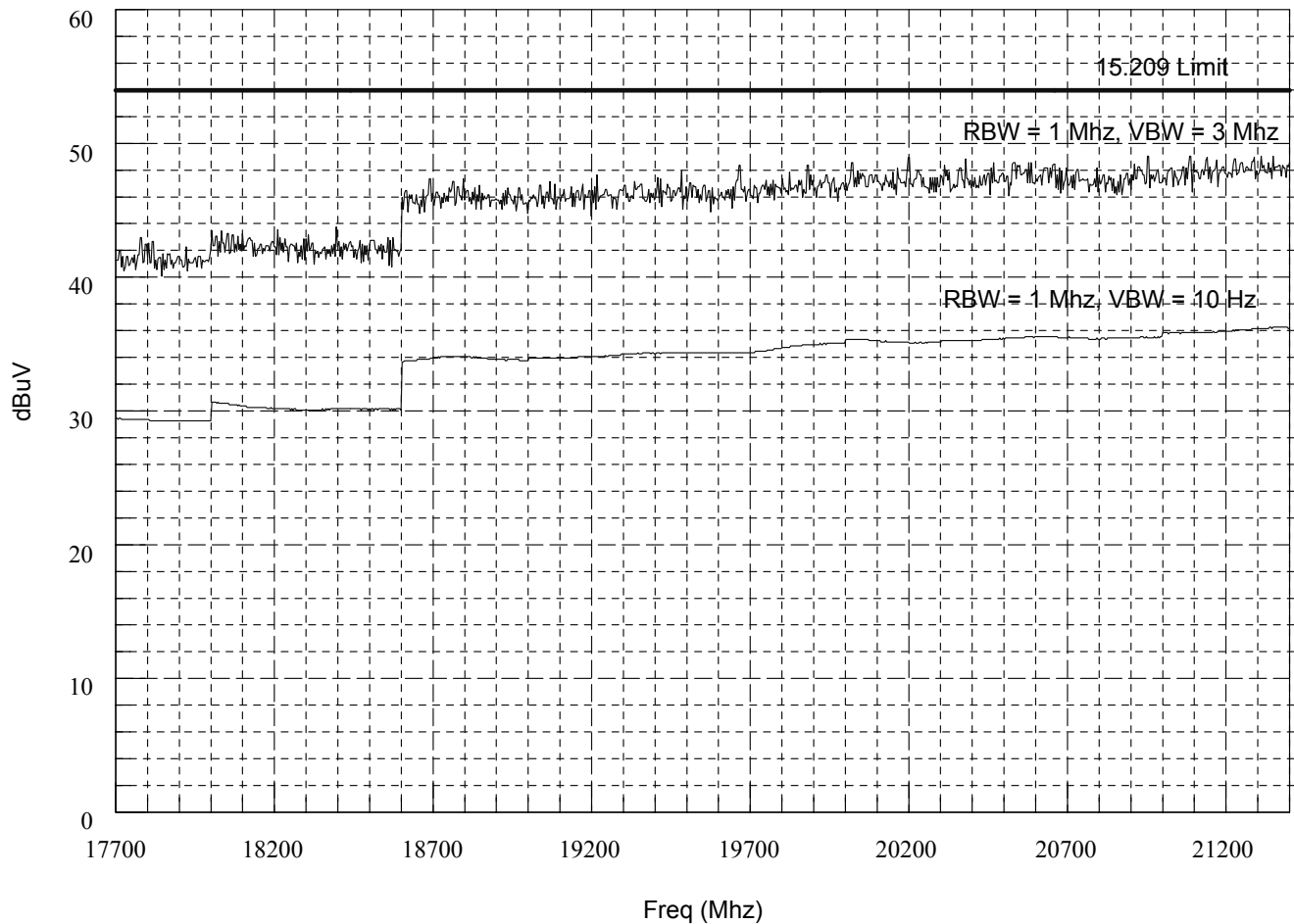
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Spurious RF Radiated Emissions

American TeleCare, Inc.
Model: Wireless Adapter
Radiated Spurious Emissions in Restricted Bands (15.205)
(17700 to 21400 Mhz)



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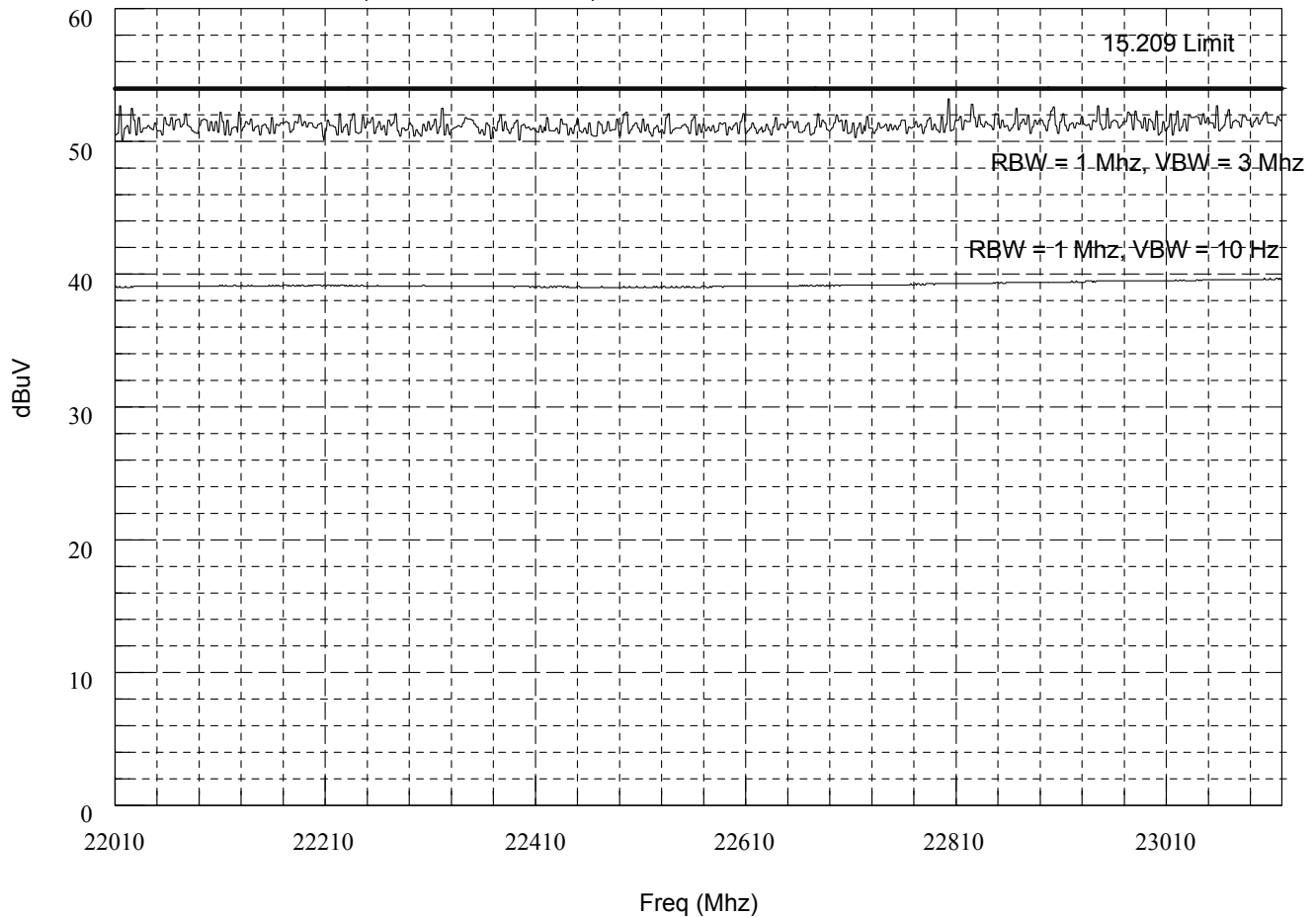
Spurious RF Radiated Emissions

American TeleCare, Inc.

Model: Wireless Adapter

Radiated Spurious Emissions in Restricted Bands (15.205)

(22010 to 23120 Mhz)



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Section 15.47 (g)

Describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system

The technical description listed in Section 2.1 states that the definition of a frequency hopping system is that the frequency of the carrier is not fixed but changes at fixed intervals under the direction of a coded sequence. The near term distribution of hops appears random, the long term distribution appears evenly distributed over the hop set, and sequential hops are randomly distributed in both direction and magnitude of change in the hop set. In this device, there is a set of 79 frequencies that are used. The frequency sequence is pseudo-randomly generated by the master Bluetooth device in the system of 8 units. This is a pseudo random generation with a repeating pattern based on a 23 hour 30 minute cycle. A typical frequency hopping sequence is as follows: 40, 21, 44, 23, 42, 53, 46, 55, 48, 33, 52, 35, 50, 65, 54, 67, 56, 37, 60, 39, 58, 69, 62, 71, 64, 25, 68, 27, 66, 57, 70, 59, 72, 29, 76, 31, 74, 61, 78, 63, 01, 41, 05, 43, 03, 73, 07, 75, 09, 45, 13, 47, 11, 77, 15, 00, 64, 49, 66, 53, 68, 02, 70, 06, 01, 51, 03, 55, 05, 04. Dwell times at each frequency are fixed and the various frequencies appear to have a random sequence but over the long term they are used equally in the allowed spectrum of 2402 to 2480 Mhz.

Section 15.247 (h)

Describe how the EUT complies with the requirement that it not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

Bluetooth units which want to communicate with other units must be organized in a structure called piconet. This piconet consists of a maximum number of 8 Bluetooth units. One unit is the master the other seven are the slaves. The master Bluetooth device coordinates frequency occupation for all other units in the piconet. As the master hop sequence is derived from it's Bluetooth device address which is unique for every Bluetooth device, additional masters intending to establish new piconets will always use different hop sequences.

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**ATTACHMENT C
RECEIVER SECTION
DETAILED TEST DATA SHEETS**

American TeleCare, Inc.
Model: Wireless Adapter 210A
Temperature: 50 Deg F.
Humidity: 63 % R.H.

Test Technician: Steve Wendlandt

Frequency Band: 2401 to 2480 Mhz

Since this product is a Transceiver, the receiver section must be observed per the ANSI C63-4 requirement. An external signal was induced to the receiver from a signal generator by wrapping a wire around the antenna to inductively couple this signal into the receiver. The signal generator was set to 2401, 2440, and 2480 Mhz. (low, middle and high band). The Signal Generator was un-modulated and set to an output level of -50 dBm to excite the receiver local oscillator. No emitted signals were observed on the OATS site so the EUT was taken into the shield room and observed with an antenna at 2 meters distance. Still no signals were observed. This is not unusual because this receiver design does not have a local oscillator, it is a SAW type design. Because of this no signals were observed or reported in this report.

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ATTACHMENT D

**PRODUCT DATA SHEET OR PRODUCT INFORMATION FORM AS
SUPPLIED BY THE CUSTOMER**

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CERTIFICATION SERVICES, INC.

COMPANY NAME: American TeleCare, Inc.

CUSTOMER REPRESENTATIVE: International Certification Services, Inc.

EQUIPMENT DESCRIPTION: Wireless Adapter Model: 210A

MODEL NUMBER: 210A

SERIAL NUMBER: Engineering Unit

TYPE OF TEST: ☐ Development
☐ Initial Design Verification
☐ Design Change (Please describe exact changes below)
☒ Production Sample (Audit Test)

Changes made: NONE

OSCILLATOR FREQUENCIES:

16 Mhz

PRODUCT SHIELDING PROVISION:

Plastic enclosure

SOFTWARE AND / OR OPERATING MODES:

The unit tested was set up to as required by the FCC guidelines for testing this type of device. Some measurements were made in the spread spectrum mode and others were done with the device transmitting constantly on one fixed frequency.

I/O CABLES:

Serial port cable between the PC transceiver device and the computer.

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