



**FCC CFR47 PART 15 SUBPART F
CERTIFICATION TEST REPORT**

FOR

XiMedia UWB VIDEO ADAPTER

MODEL NUMBER: XiM2600CF / XiM260BRF

FCC ID: SUWGUW01S

REPORT NUMBER: 06U10764-1

ISSUE DATE: DECEMBER 6, 2007

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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	12/6/07	Initial Issue	M. Heckrotte

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: GIT JAPAN INC.
6-9-2 OGAKI RITTOH
SHIGA 520-3024, JAPAN

EUT DESCRIPTION: UWB VIDEO ADAPTER

MODEL: XiM2600CF / XiM260BRF

SERIAL NUMBER: Prototype

DATE TESTED: June 5 – December 5, 2007

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart F	No Non-Compliance Noted

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



MICHAEL HECKROTTE
ENGINEERING MANAGER
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COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a UWB transceiver module installed in a USB dongle. It is intended to function as a wireless video adapter. It utilizes Ultra WideBand technology and is for indoor use only.

5.2. DESCRIPTION OF MODEL DIFFERENCES

Two versions of the dongle are produced. Each uses the same UWB transceiver module.

One dongle is configured as a client and is identified by model number XiM26000CF. It is connected to a computer via a USB interface.

The other dongle is configured as a host and is identified by model number XiM260BRF. It is connected to the host adapter via a USB interface. The host adapter is powered from the AC mains and is connected to a monitor via a DVI interface.

Video is transferred from the computer to the monitor via the client and host.

All testing documented in this report was performed on a host dongle that has been modified to transmit continuously.

5.3. OPERATING FREQUENCY RANGE

The EUT operates over a frequency range of 4129 to 9344 MHz.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes one integral antenna with a maximum gain of 2.5 dBi.

5.5. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Habana for C2M, rev. 1.0.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Host Adapter / Test Jig	MCT	VGA-UWB01	Prototype	DoC
AC/DC Adapter	DVE	DSA-15P-05	50125	DoC

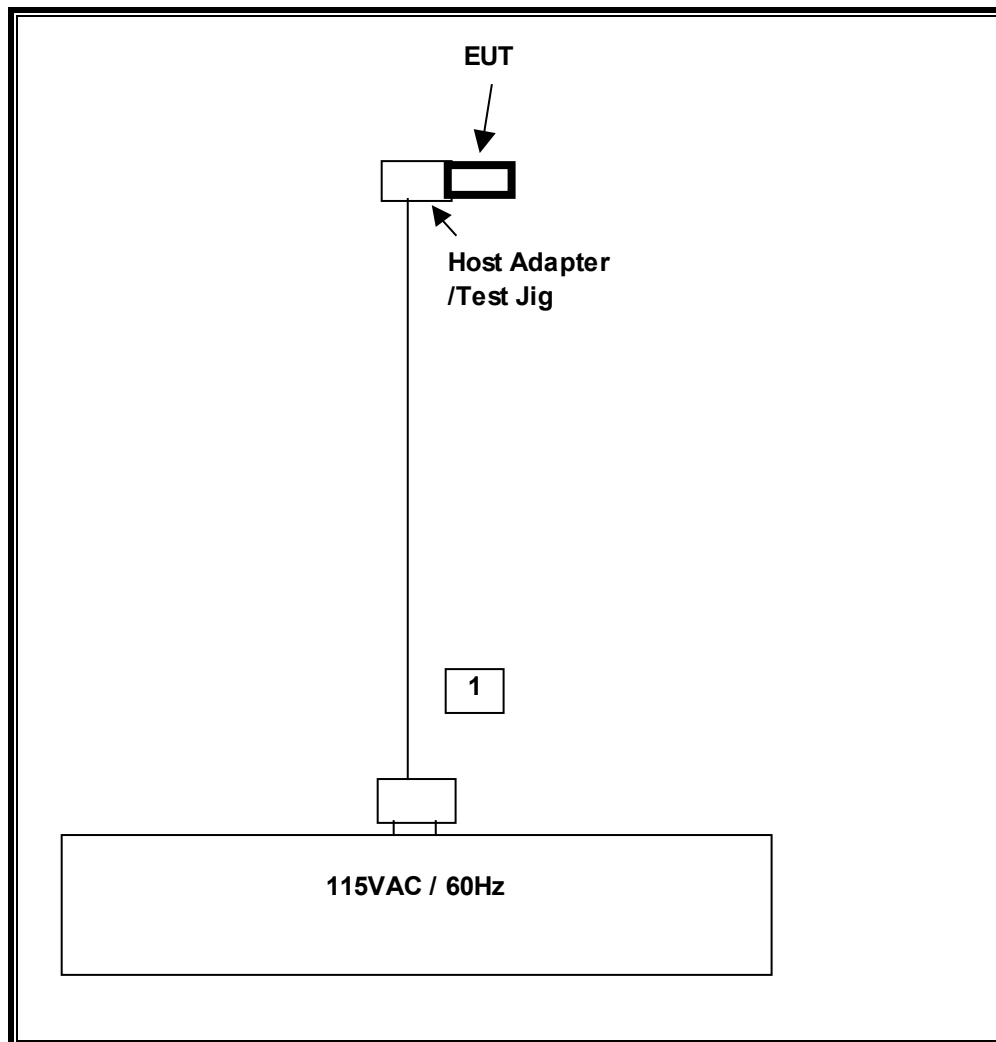
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	DC Plug	Un-shielded	2 m	N/A

TEST SETUP

The EUT is connected to a host adapter used as a test jig. The EUT is programmed with a test mode to transmit continuously.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
Antenna, Bilog 30 MHz ~ 2 Ghz	Sunol Sciences	JB1	A0022704	9/28/2008
Antenna, Microwave Horn	ARA	AT4002A	322899	12/20/2007
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	4/15/2008
Antenna, Horn 18 ~ 26 GHz	ARA	SWH-28	1007	9/26/2008
Antenna, Horn 26 ~ 40 GHz	ARA	MWH-2640/B	1029	4/11/2008
Preamplifier, 1300 MHz	Agilent / HP	8447D	1937A02062	5/9/2008
Preamplifier, 1 ~ 2 GHz	Miteq	AFS3-01000200	1199462	8/14/2008
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00931	8/14/2008
Preamplifier, 26 ~ 40 GHz	Miteq	NSP4000-SP2	924343	8/14/2008
EMI Receiver, 9 kHz ~ 2.9 GHz	Agilent / HP	8542E	3942A00286	6/12/2008
RF Filter Section	Agilent / HP	85420E	3705A00256	6/12/2008
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent / HP	E4446A	US42510266	10/26/2008
LISN, 10 kHz ~ 30 MHz	FCC	LISN-50/250-25-2	2023	9/15/2008
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	8379443	9/15/2008
EMI Test Receiver	R & S	ESHS 20	827129/006	1/27/2008

7. LIMITS, PROCEDURES AND RESULTS

7.1. UWB TEST PROCEDURES

TEST PROCEDURES

All RF characteristics of the EUT are measured using radiated procedures.

The EUT is placed on a non-conducting table 80 cm above the ground plane. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements at or below 960 MHz trace data values are downloaded, then correction factors for the antenna, preamplifier, and cables as a function of frequency are applied to yield field strength. The resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 960 MHz trace data values are downloaded, then correction factors for the antenna, preamplifier, and cables as a function of frequency, plus the constant distance correction factor as required, are applied to yield field strength. The resulting 3 meter field strength is converted to EIRP using the equation $P \text{ (dBm EIRP)} = E \text{ (dBuV/m)} - 95.2$.

For 1 MHz RBW final measurements above 960 MHz the RBW and VBW are both set to 1 MHz. An Agilent PSA series spectrum analyzer with a true RMS detector is utilized. The number of points on the horizontal axis is set equal to (Frequency Span in MHz) + 1 and the sweep time is set to no more than (Frequency Span in MHz) milliseconds so as not to exceed the maximum 1 ms averaging time.

For 1 kHz RBW final measurements above 960 MHz the RBW and VBW are both set to 1 kHz. An Agilent PSA series spectrum analyzer with a true RMS detector is utilized. The number of points on the horizontal axis is set equal to (Frequency Span in MHz) + 1 and the sweep time is set to no more than (Frequency Span in MHz) milliseconds so as not to exceed the maximum 1 ms averaging time.

Measurements used for calculating bandwidth, peak power, and the peak level of digital device emissions are made using peak detection.

7.2. UWB BANDWIDTH, CENTER FREQUENCY, AND FRACTIONAL BANDWIDTH

DEFINITIONS AND LIMITS

§15.503 Definitions.

(a) UWB Bandwidth. For the purpose of this subpart, the UWB bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated f_H and the lower boundary is designated f_L . The frequency at which the highest radiated emission occurs is designated f_M .

(b) Center frequency. The center frequency, f_C , equals $(f_H + f_L)/2$.

(c) Fractional bandwidth. The fractional bandwidth equals $2(f_H - f_L)/(f_H + f_L)$.

(d) Ultra-wideband (UWB) transmitter. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

§15.517 (b) The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

TEST PROCEDURE

Radiated measurements are made using the procedures described above.

The detection mode is set to peak detection, the sweep time is AUTO, and the Max Hold trace function is utilized. The frequency range from 3.1 to 10.6 GHz is measured.

The frequency at which the maximum EIRP is measured is designated as f_M . A major horizontal graticule line of the plot is set equal to the peak EIRP at f_M . The spectral envelope at the major graticule line that is 10 dB below the reference graticule is examined to determine the frequency band bounded by the points that are 10 dB below the highest radiated emission. The upper boundary is designated f_H and the lower boundary is designated f_L .

The center frequency, f_C , is calculated as $(f_H + f_L)/2$.

The fractional bandwidth is calculated as $2(f_H - f_L)/(f_H + f_L)$.

The antenna polarization that yields the highest EIRP at f_M is used to calculate the above parameters.

RESULTS (VERTICAL POLARIZATION)

f Max (GHz)	Reference EIRP at f Max (dBm)	10 dB down from Reference EIRP (dBm)
6.144	-40.2	-50.2

f Low (GHz)	Minimum f Low (GHz)
4.129	3.1

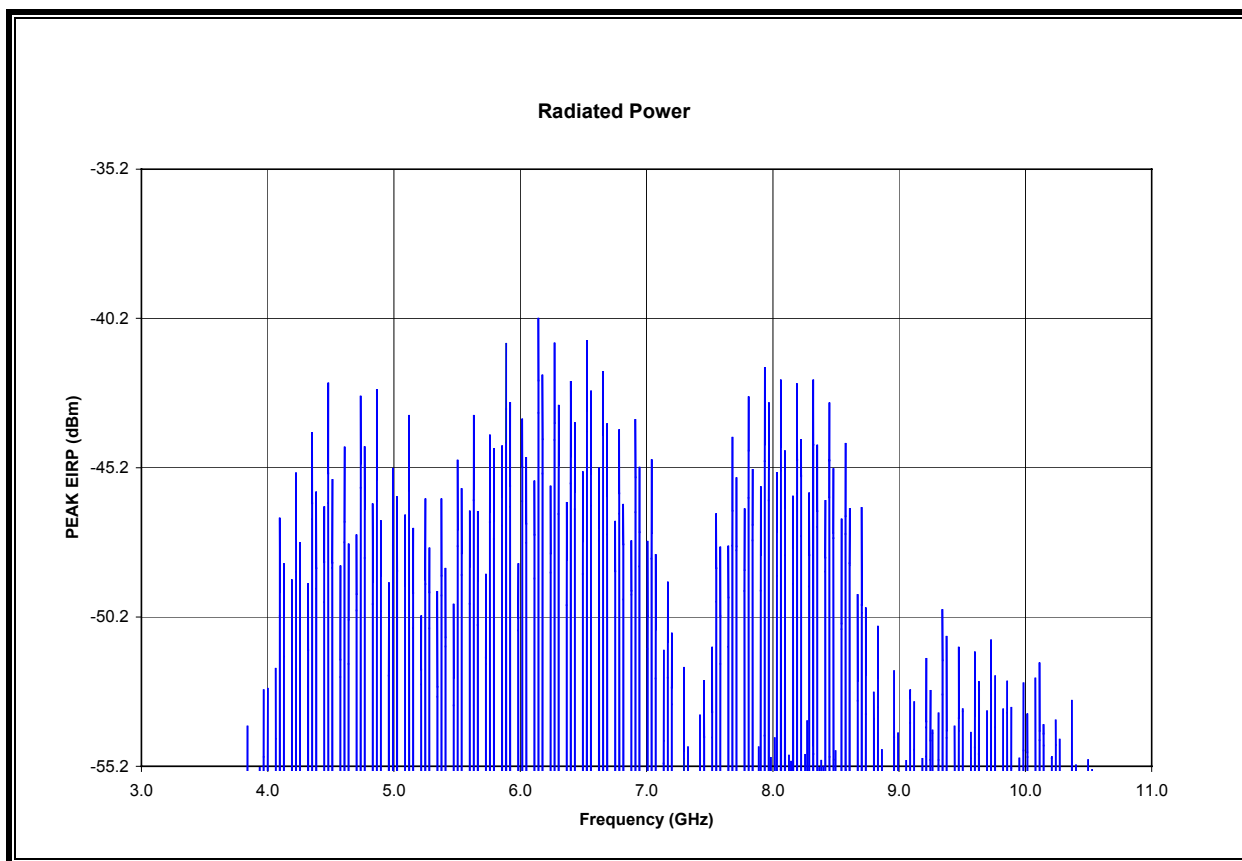
f High (GHz)	Maximum f High (GHz)
9.344	10.6

f Center (GHz)
6.737

UWB BW (MHz)	Minimum UWB BW (MHz)
5215	500

Fractional BW	Minimum Fractional BW
0.774	0.20

PLOT WITH REFERENCE GRATICULE ADJUSTED TO EIRP AT Fmax



7.3. PEAK POWER

LIMIT

§15.517 (f) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_M . That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in Section 15.521 of this chapter.

§15.521 (g) When a peak measurement is required, it is acceptable to use a resolution bandwidth other than the 50 MHz specified in this subpart. This resolution bandwidth shall not be lower than 1 MHz or greater than 50 MHz, and the measurement shall be centered on the frequency at which the highest radiated emission occurs, f_M . If a resolution bandwidth other than 50 MHz is employed, the peak EIRP limit shall be $20 \log (RBW/50)$ dBm where RBW is the resolution bandwidth in megahertz that is employed. This may be converted to a peak field strength level at 3 meters using $E(\text{dBuV/m}) = P(\text{dBm EIRP}) + 95.2$. If RBW is greater than 3 MHz, the application for certification filed with the Commission must contain a detailed description of the test procedure, calibration of the test setup, and the instrumentation employed in the testing.

TEST PROCEDURE

Radiated measurements are made using the procedures described above.

The spectrum analyzer center frequency is set to f_M . The frequency span is set to 50 MHz. The RBW and VBW are both set to 1 MHz. The detector function is set to peak.

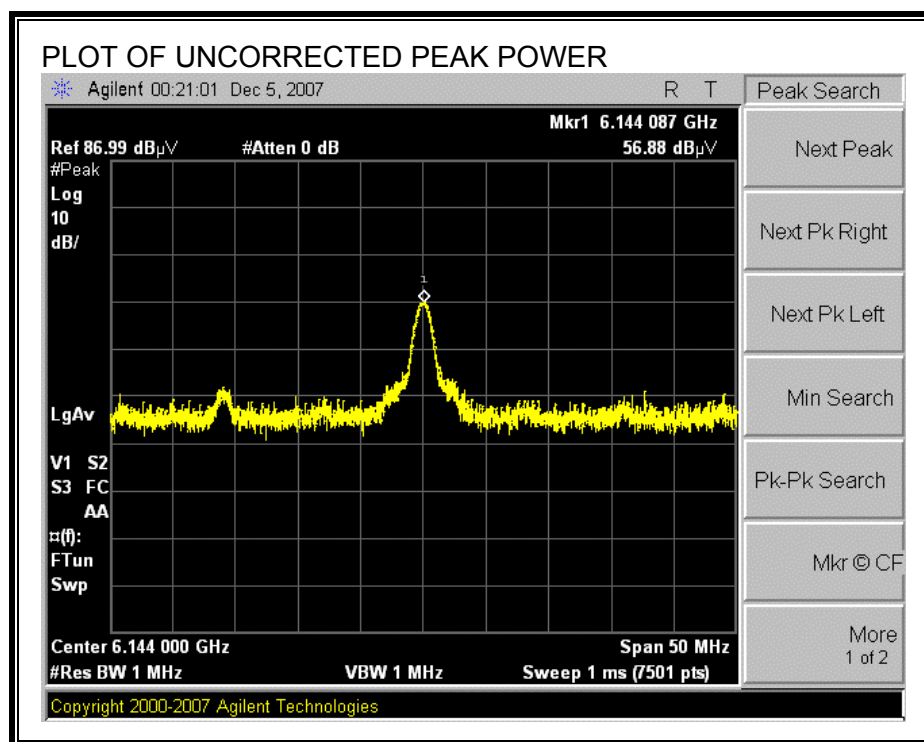
RESULTS

RBW =	1	Limit =	-33.98	Distance =	1.0
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f Max (GHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable (dB)	Preamp (dB)	Distance Factor (dB)
6.144	56.88	33.50	10.20	-36.60	-9.54

Field Strength at 3 meters (dBuV/m)	EIRP Conversion Factor	EIRP (dBm)	EIRP Limit (dBm)	Margin (dB)
54.44	-95.20	-40.76	-33.98	-6.78

PEAK POWER PLOT



7.4. RADIATED EMISSIONS AT OR BELOW 960 MHz

LIMITS

§15.517 (c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in Section 15.209 of this chapter.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

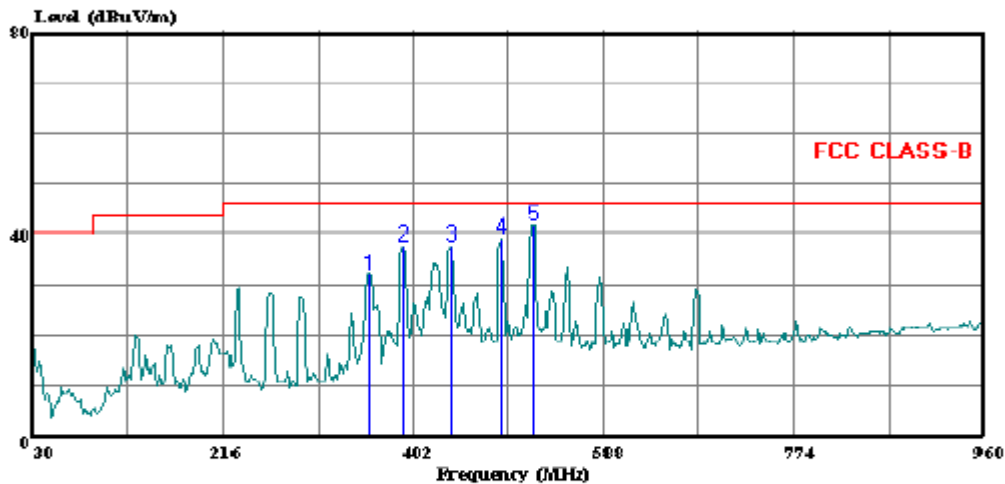
SPURIOUS EMISSIONS 30 TO 960 MHz (HORIZONTAL)

HORIZONTAL PLOT



Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 51 File#: 06U10764emi.BMI Date: 11-29-2007 Time: 10:24:30



Trace: 50

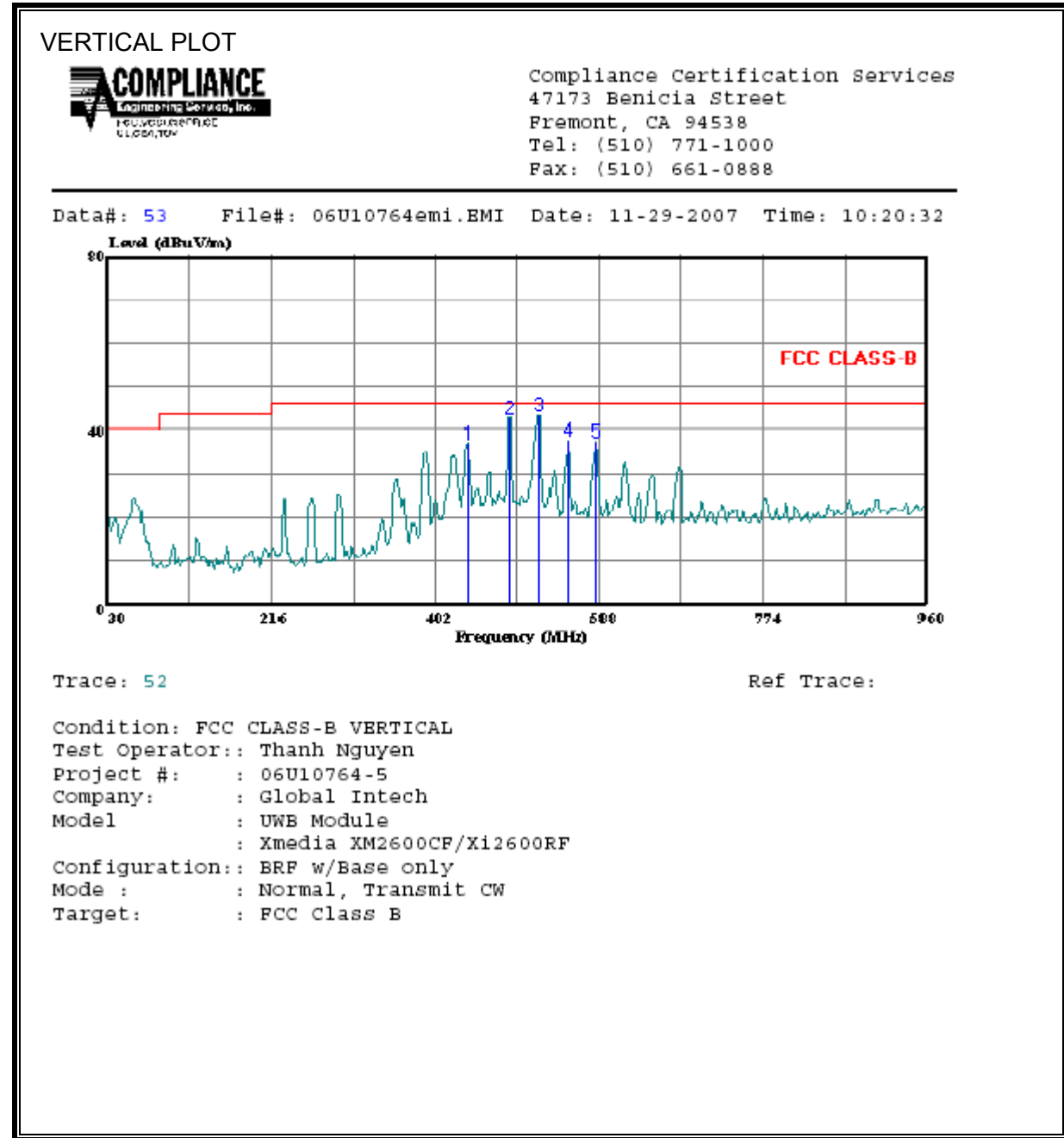
Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator:: Thanh Nguyen
Project #: : 06U10764-5
Company: : Global Intech
Model : UWB Module
: Xmedia XM2600CF/Xi2600RF
Configuration:: BRF w/Base only
Mode : : Normal, Transmit CW
Target: : FCC Class B

HORIZONTAL DATA

	Freq	Read Level	Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV/m	dB	dBuV/m	dB	
1	359.800	46.56	32.11	-14.45	46.00	-13.89	Peak
2	390.840	51.32	37.76	-13.55	46.00	-8.24	Peak
3	439.340	50.14	37.64	-12.50	46.00	-8.36	Peak
4	487.840	50.56	39.13	-11.43	46.00	-6.87	Peak
5	520.820	52.66	41.65	-11.01	46.00	-4.35	Peak

SPURIOUS EMISSIONS 30 TO 960 MHz (VERTICAL)



VERTICAL DATA

	Freq	Read Level	Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV/m	dB	dBuV/m	dB	
1	439.340	49.53	37.03	-12.50	46.00	-8.97	Peak
2	485.900	54.15	42.64	-11.51	46.00	-3.36	Peak
3	519.850	54.24	43.24	-11.00	46.00	-2.76	Peak
4	552.830	48.42	37.89	-10.53	46.00	-8.11	Peak
5	584.840	47.52	37.44	-10.08	46.00	-8.56	Peak

7.5. RADIATED EMISSIONS ABOVE 960 MHz

LIMITS

§15.517 (c) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

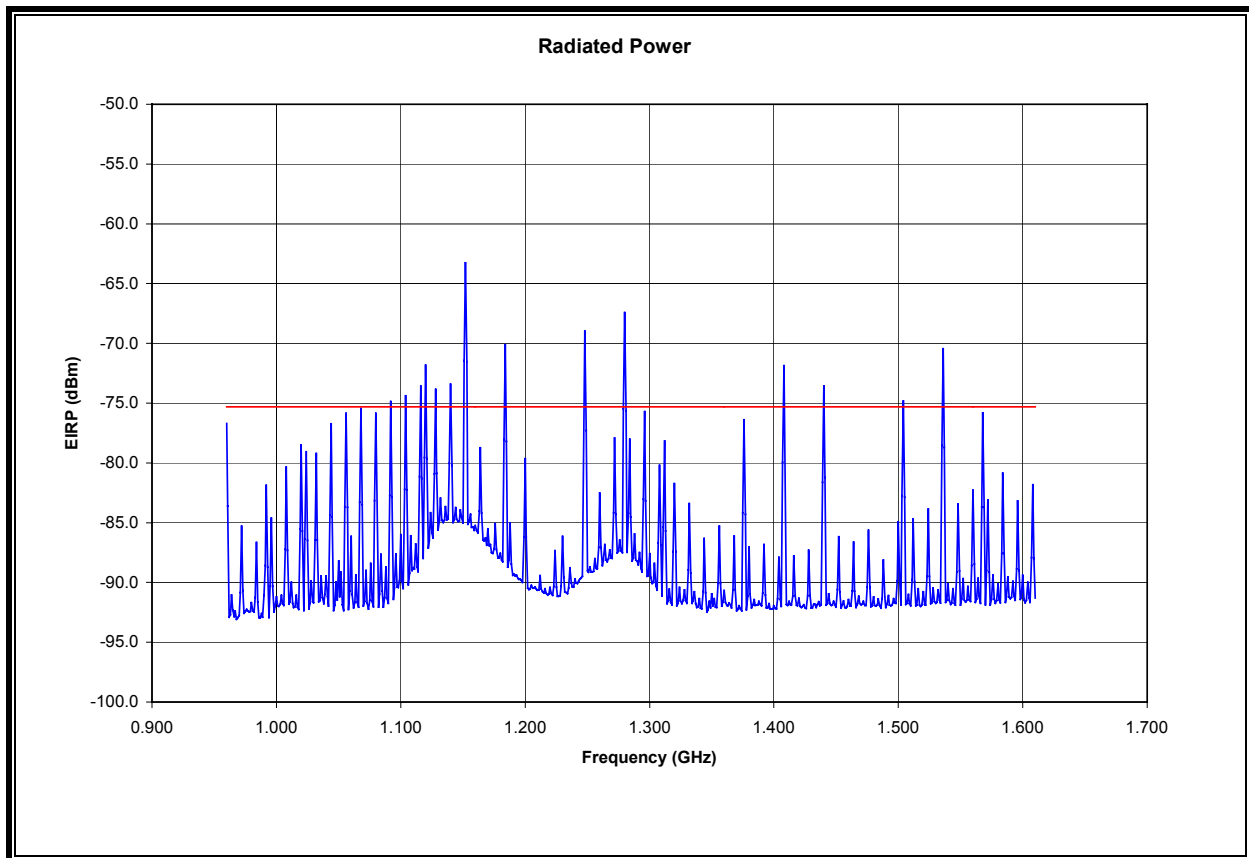
Frequency in MHz	EIRP in dBm
960-1610	-75.3
1610-1990	-53.3
1990-3100	-51.3
3100-10600	-41.3
Above 10600	-51.3

§15.517 (e) In addition to the radiated emission limits specified in the above table, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

RESULTS

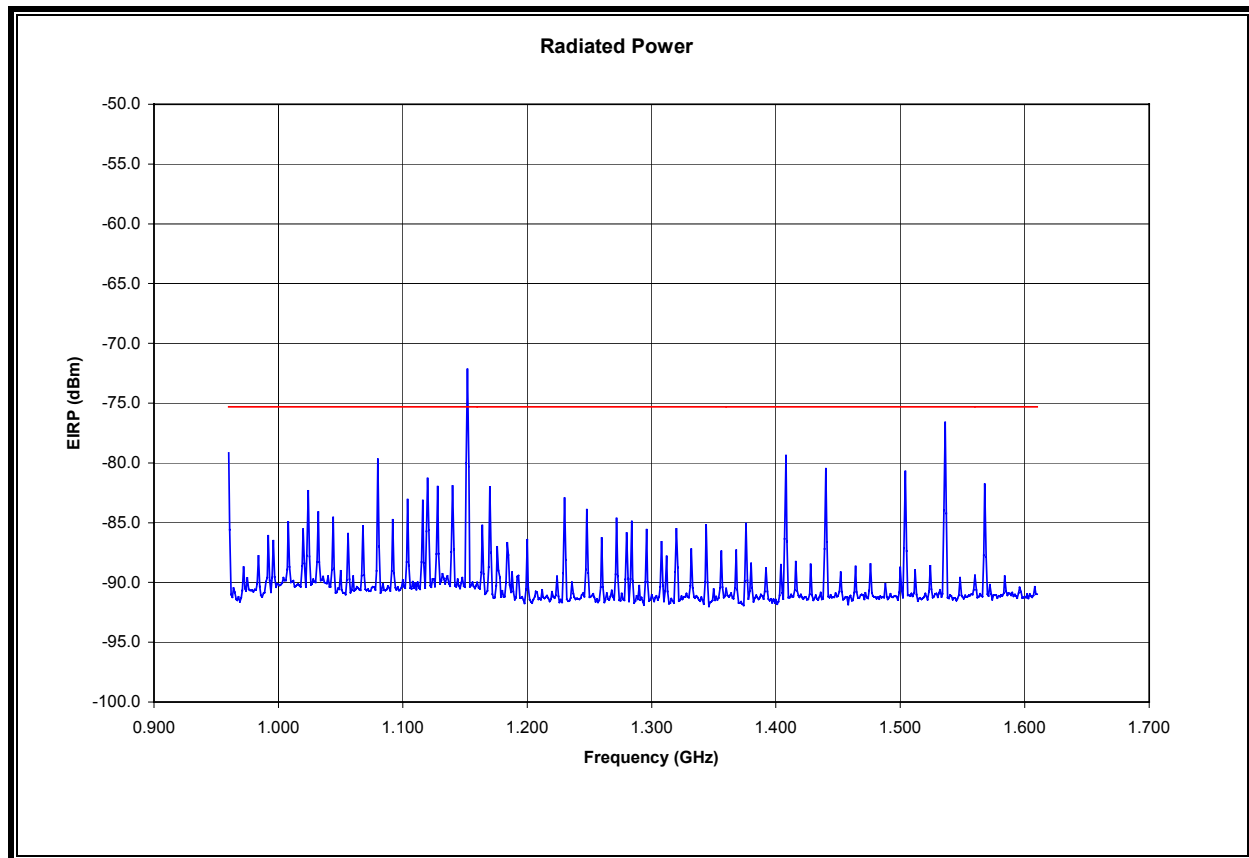
EIRP 0.960 TO 1.610 GHz, 1 MHz BW, VERTICAL



Note: All emissions above the limit line were identified as unintentional digital device emissions. None of the emissions above the limit line are due to the UWB radio.

The amplitude of these digital device emissions with respect to the applicable §15.209 limit are presented in the section "DIGITAL DEVICE RADIATED EMISSIONS ABOVE 960 MHz" below.

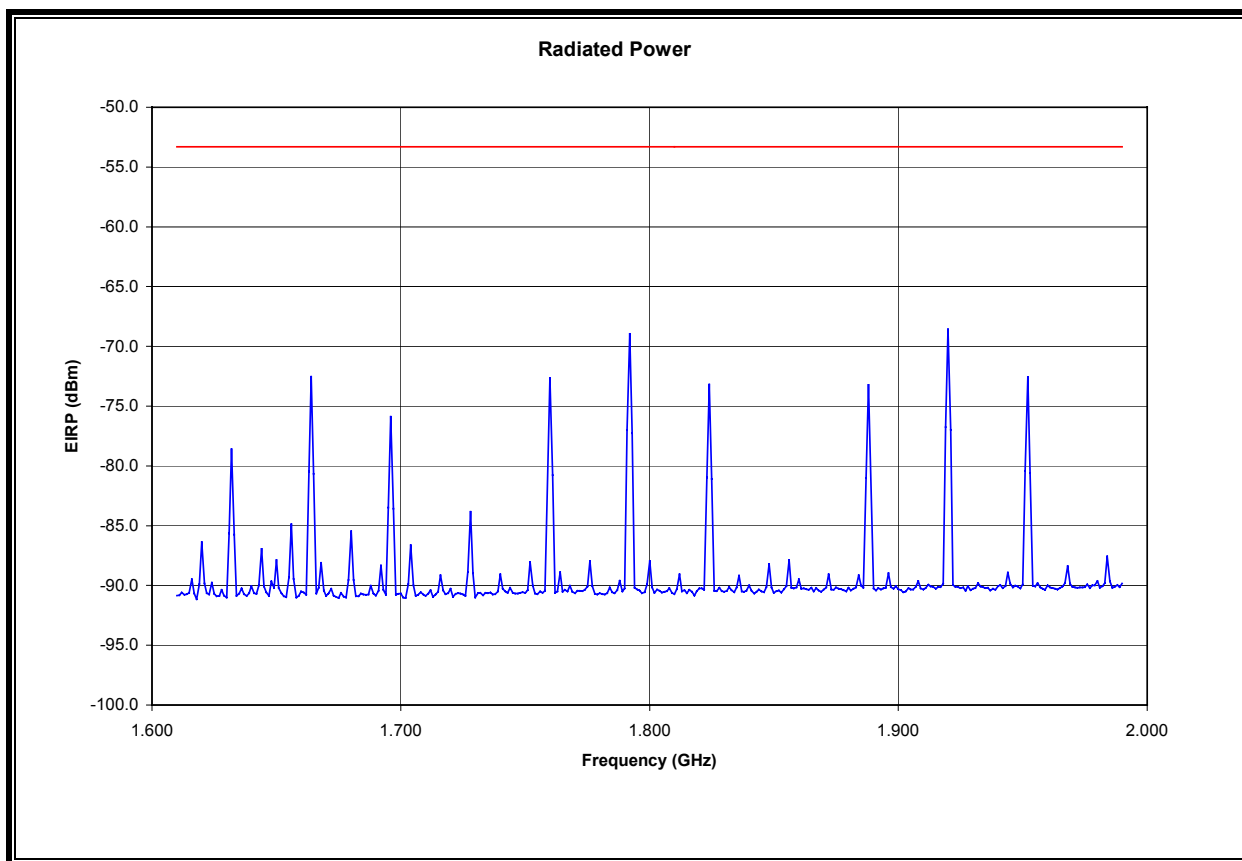
EIRP 0.960 TO 1.610 GHz, 1 MHz BW, HORIZONTAL



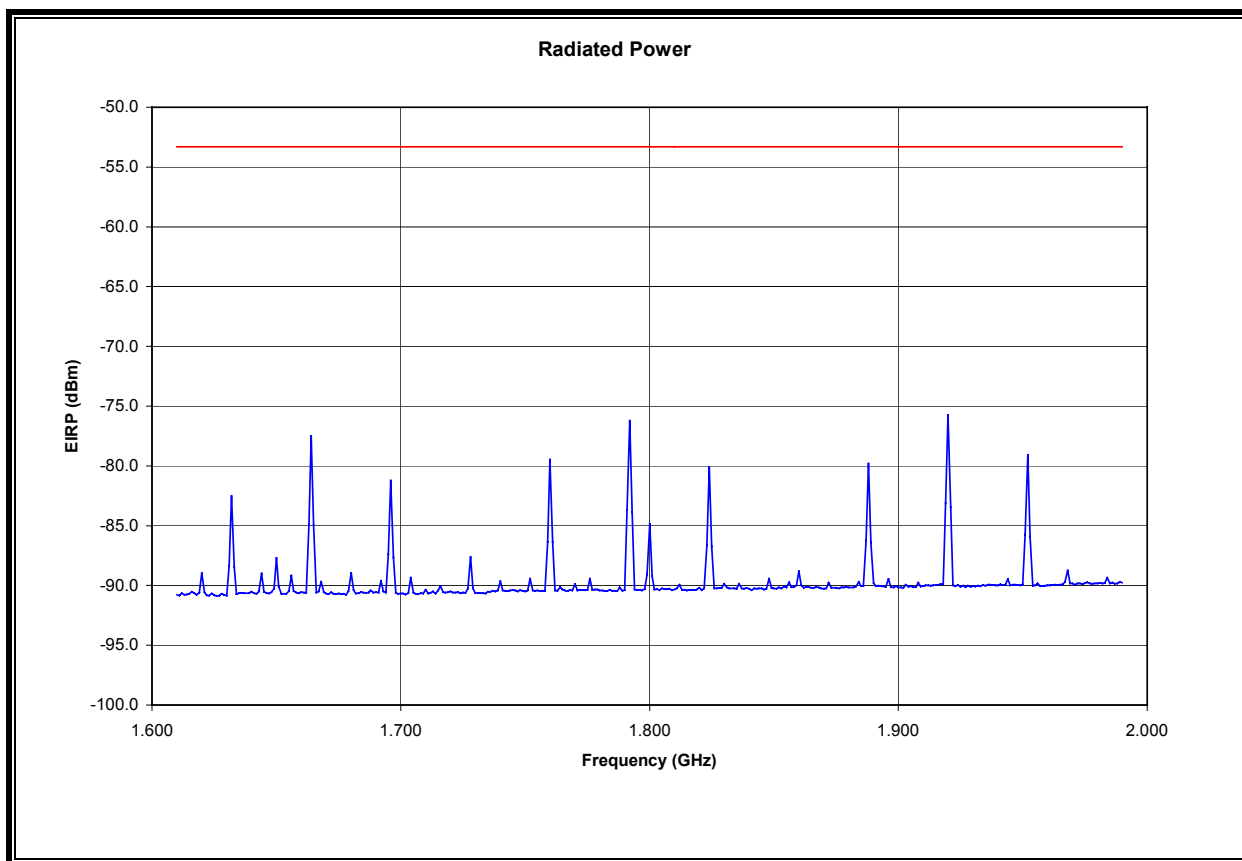
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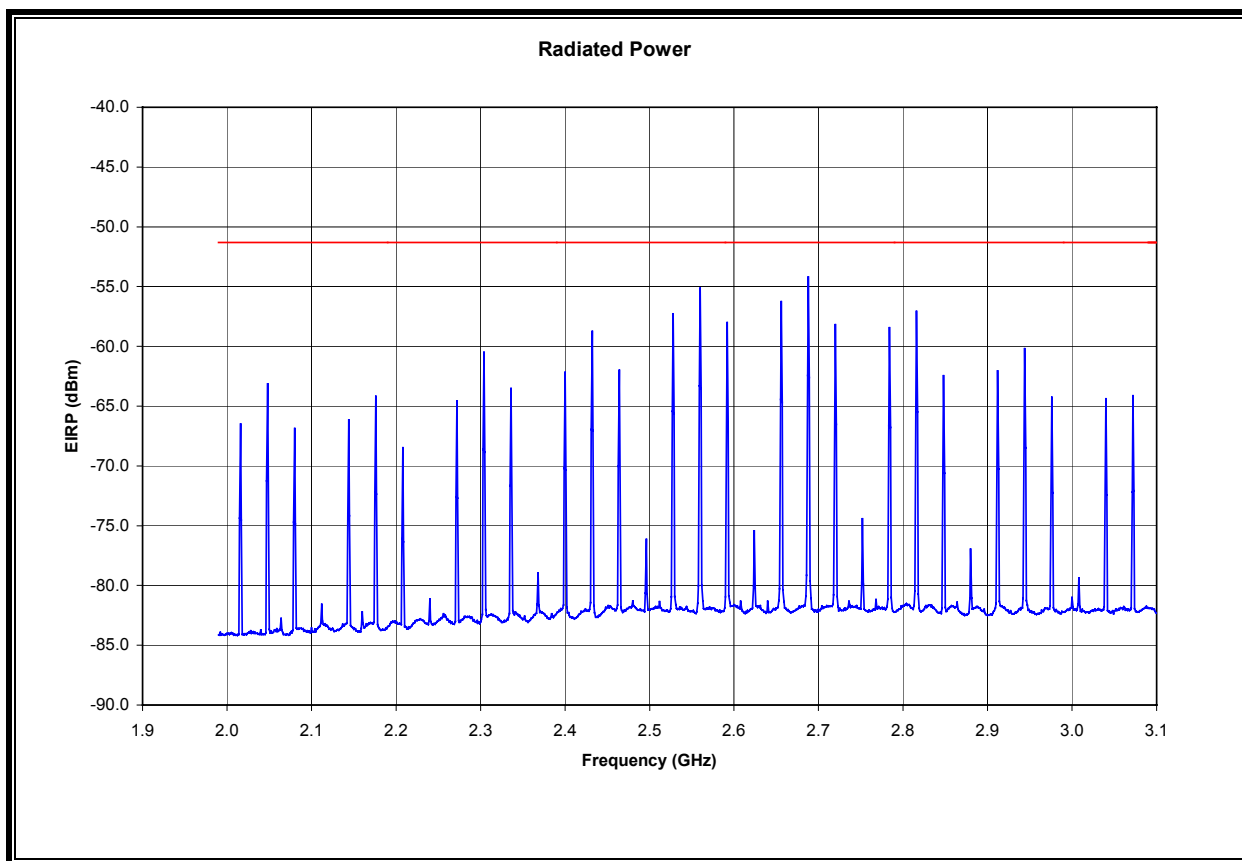
EIRP 1.610 TO 1.990 GHz, 1 MHz BW, VERTICAL



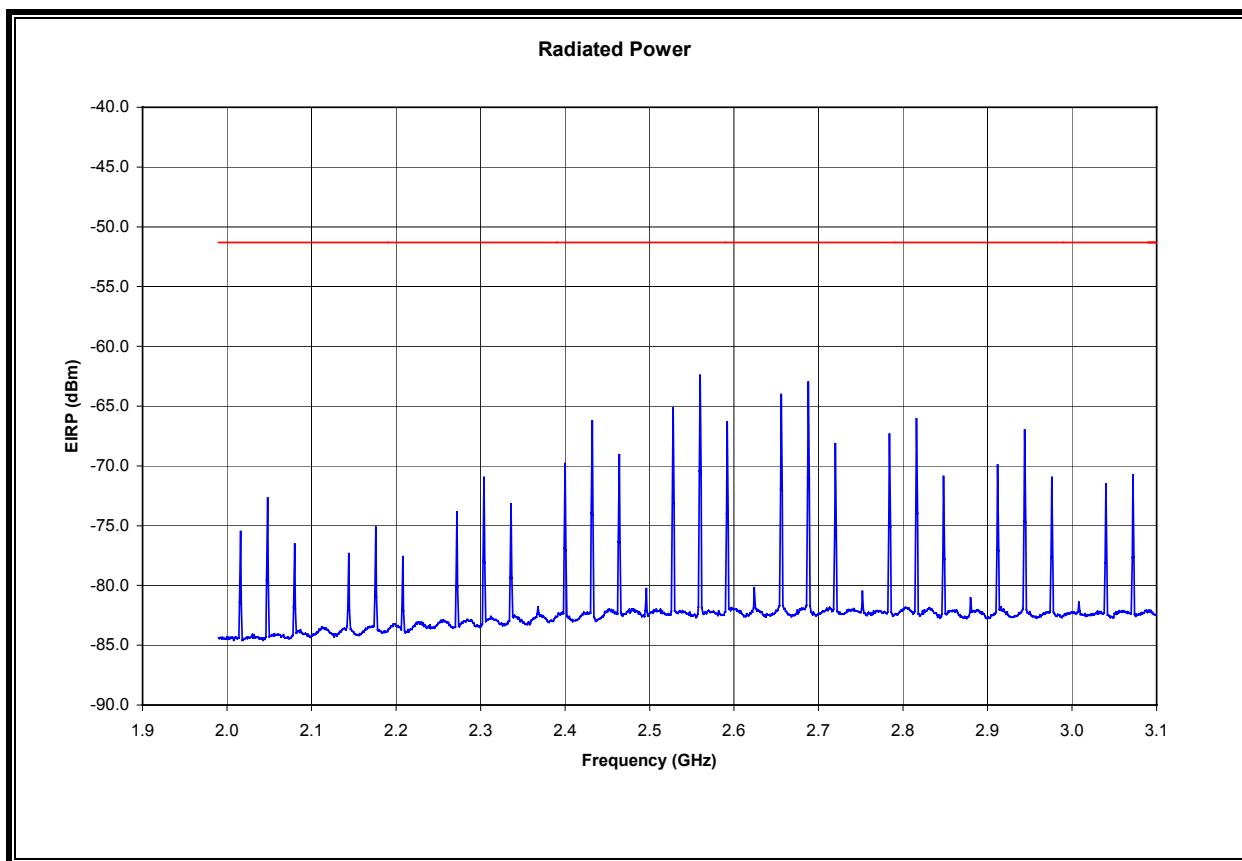
EIRP 1.610 TO 1.990 GHz, 1 MHz BW, HORIZONTAL



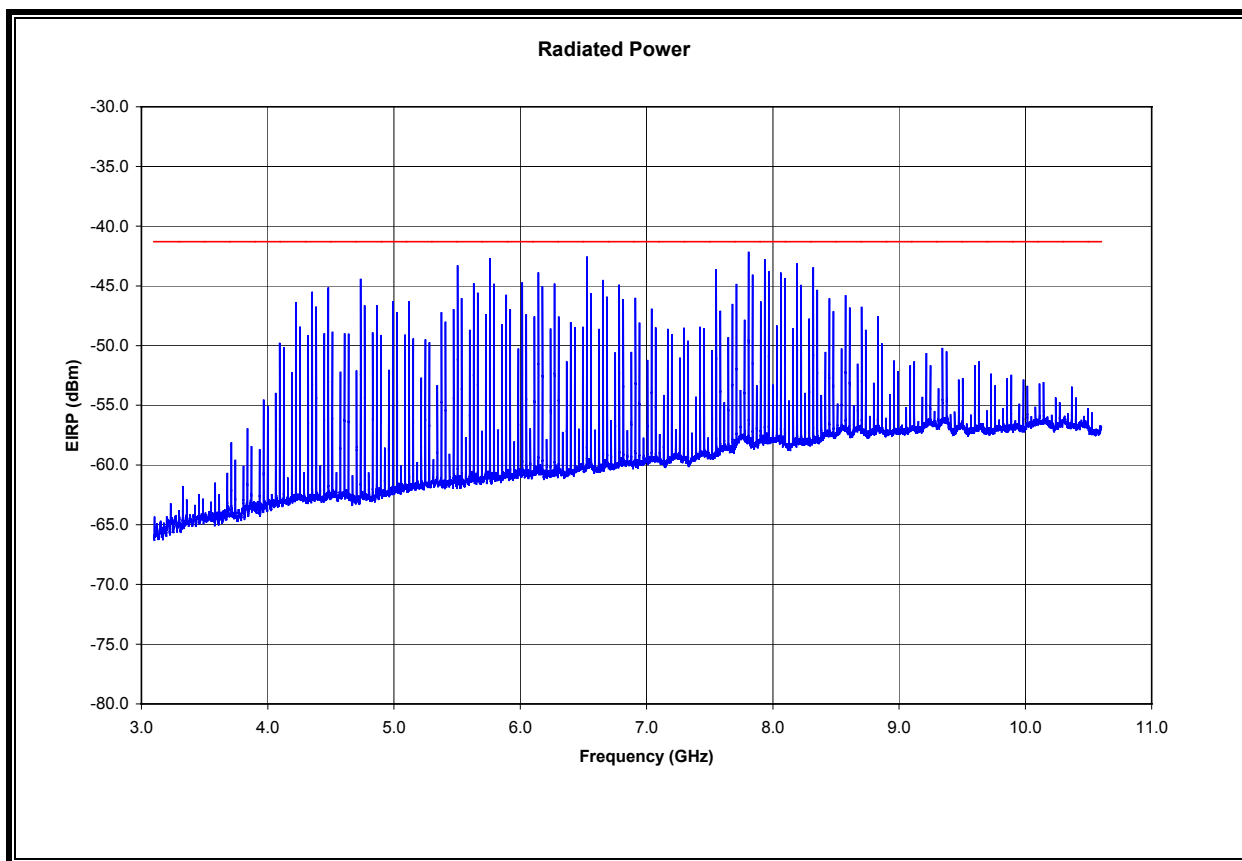
EIRP 1.990 TO 3.100 GHz, 1 MHz BW, VERTICAL



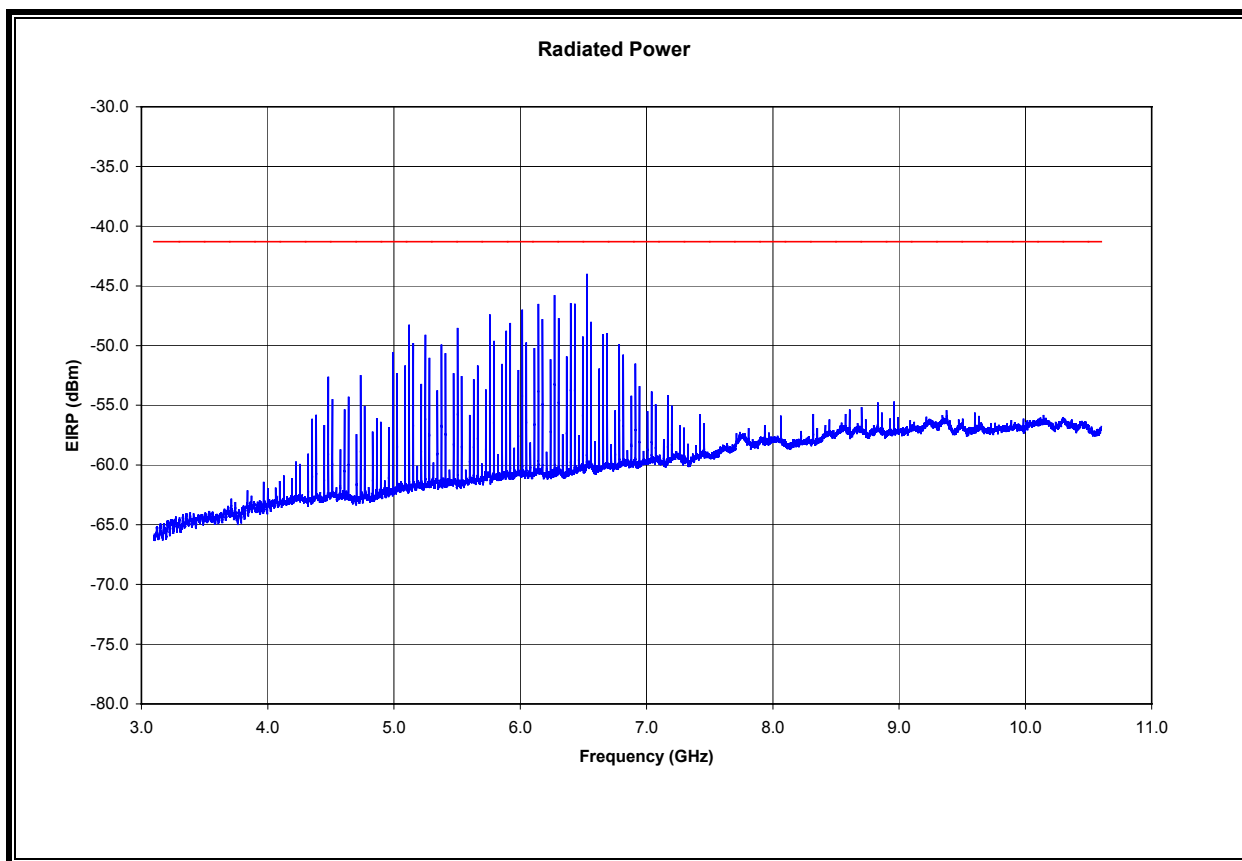
EIRP 1.990 TO 3.100 GHz, 1 MHz BW, HORIZONTAL



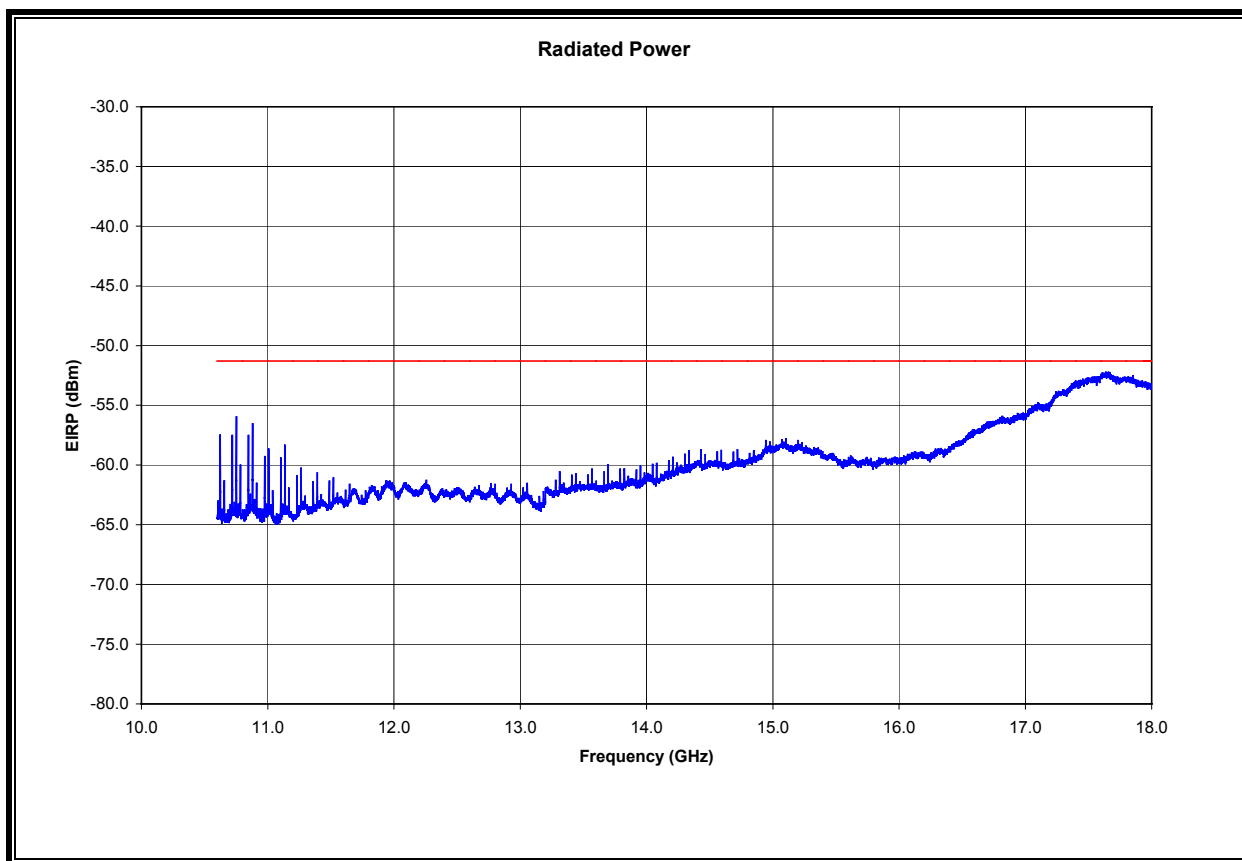
EIRP 3.1 TO 10.6 GHz, 1 MHz BW, VERTICAL



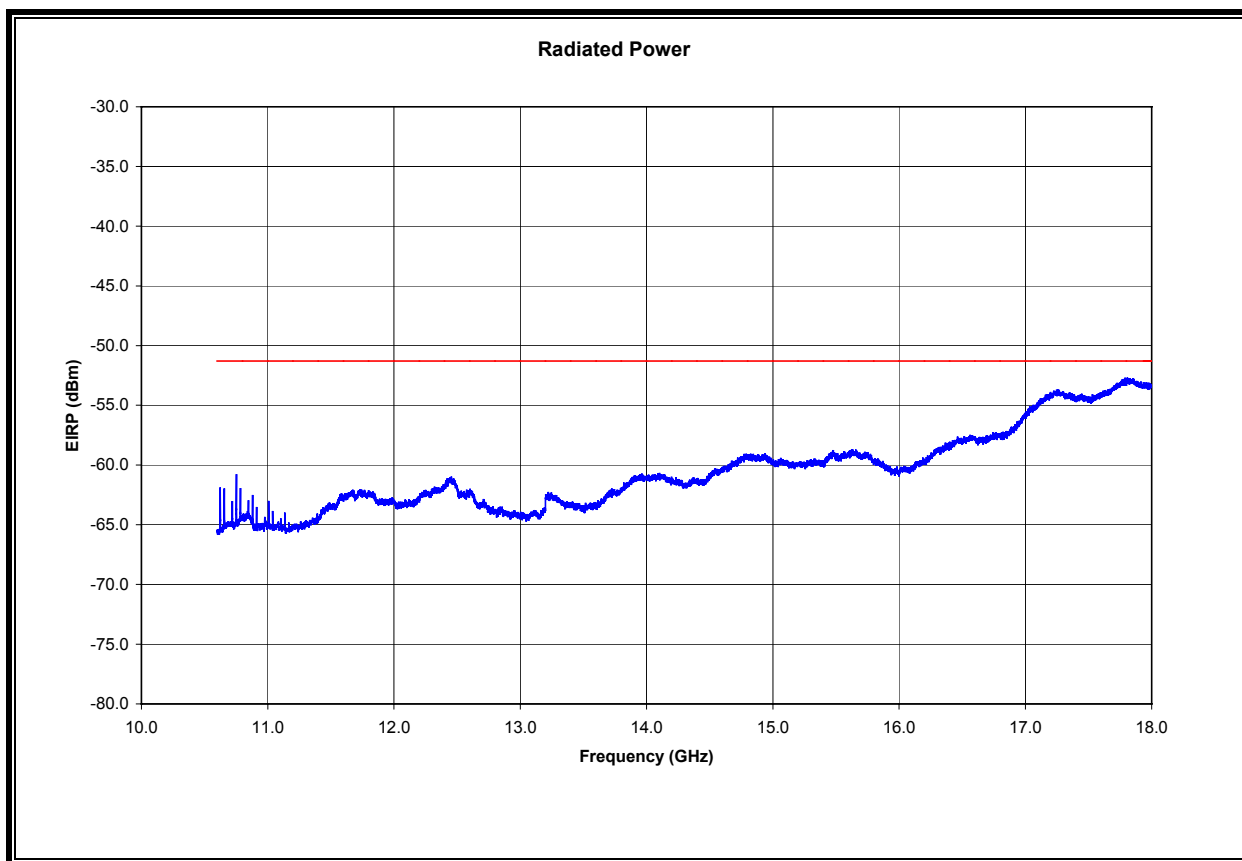
EIRP 3.1 TO 10.6 GHz, 1 MHz BW, HORIZONTAL



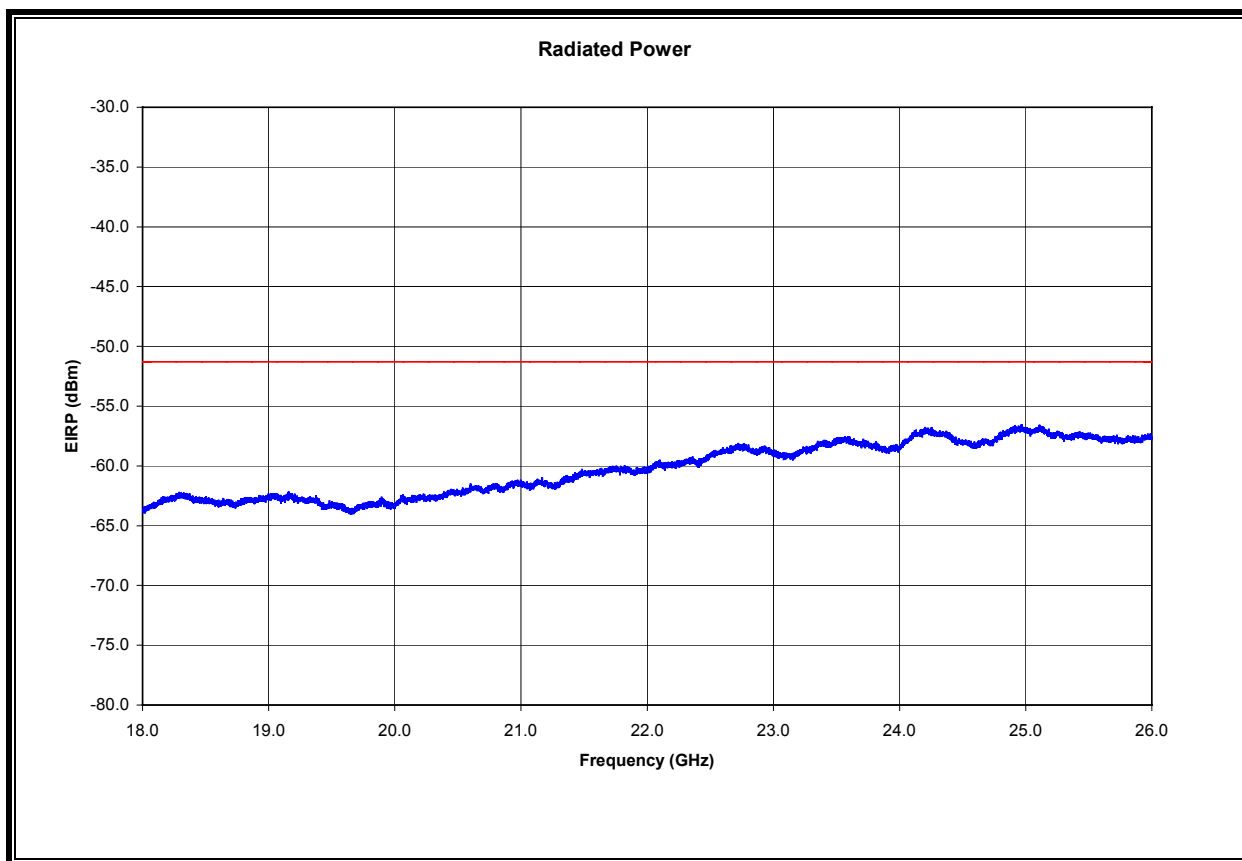
EIRP 10.6 TO 18 GHz, 1 MHz BW, VERTICAL



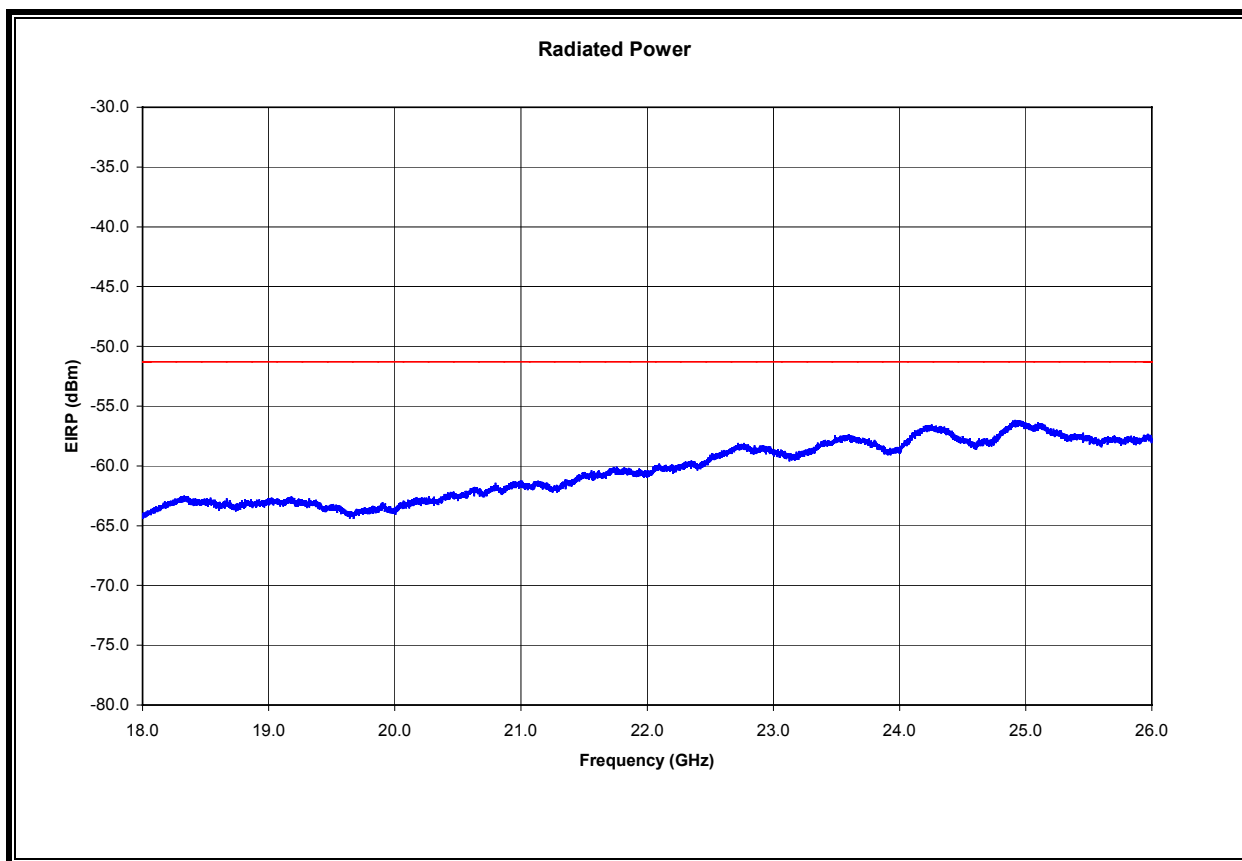
EIRP 10.6 TO 18 GHz, 1 MHz BW, HORIZONTAL



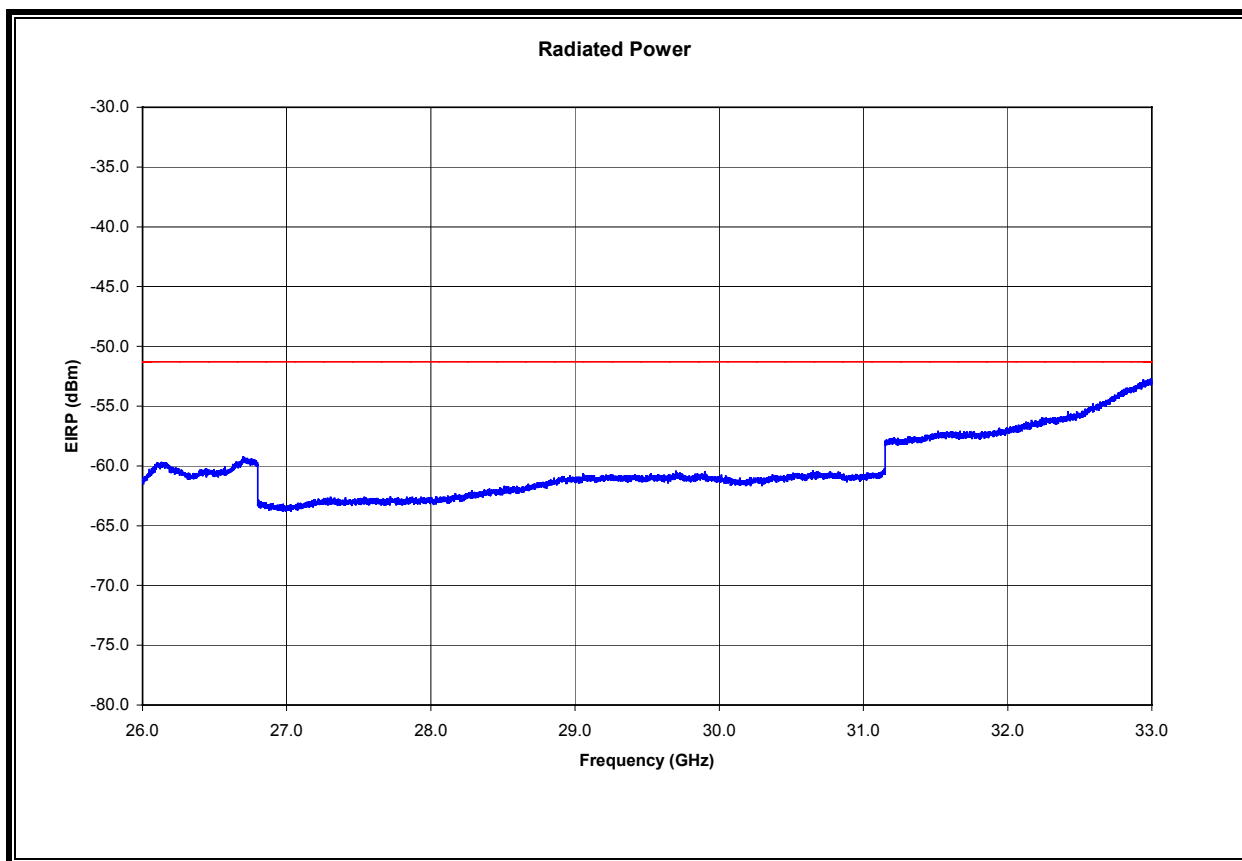
EIRP 18 TO 26 GHz, 1 MHz BW, VERTICAL



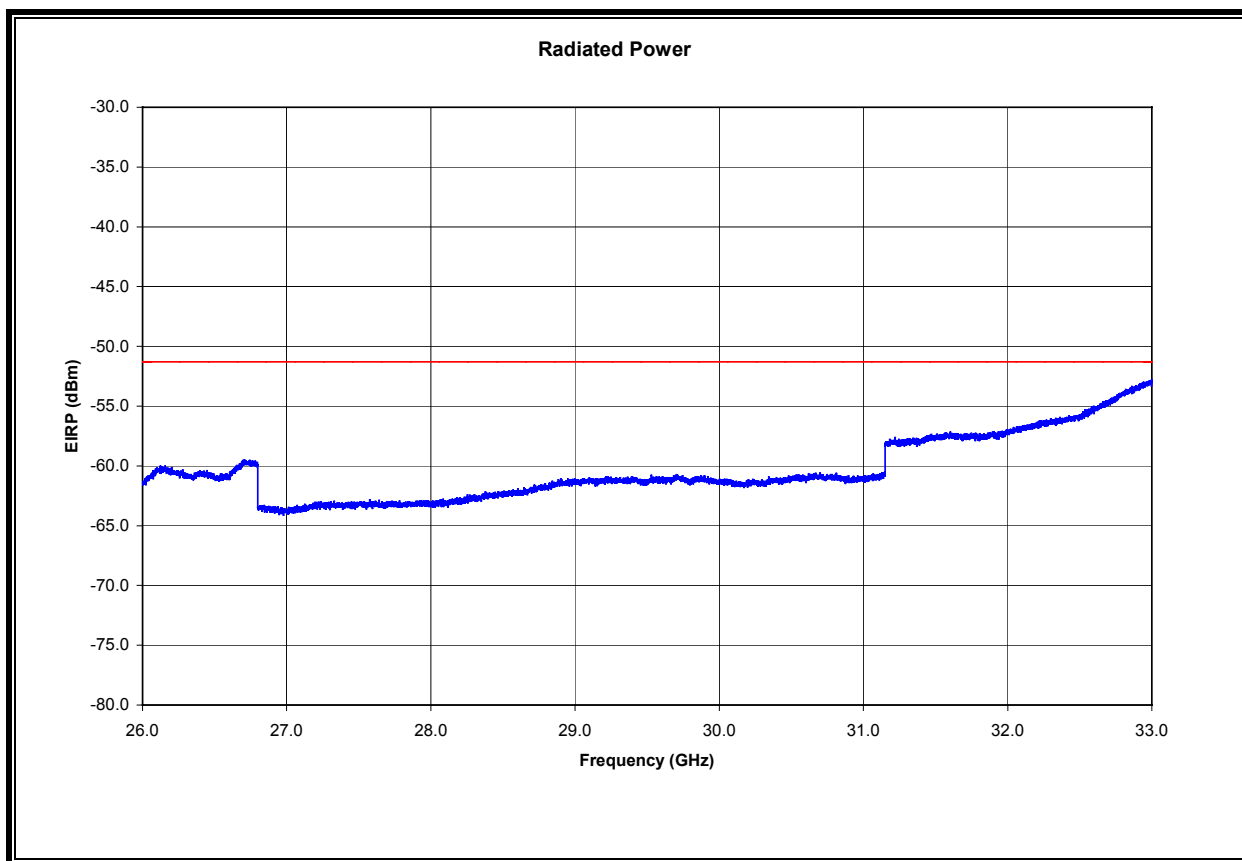
EIRP 18 TO 26 GHz, 1 MHz BW, HORIZONTAL



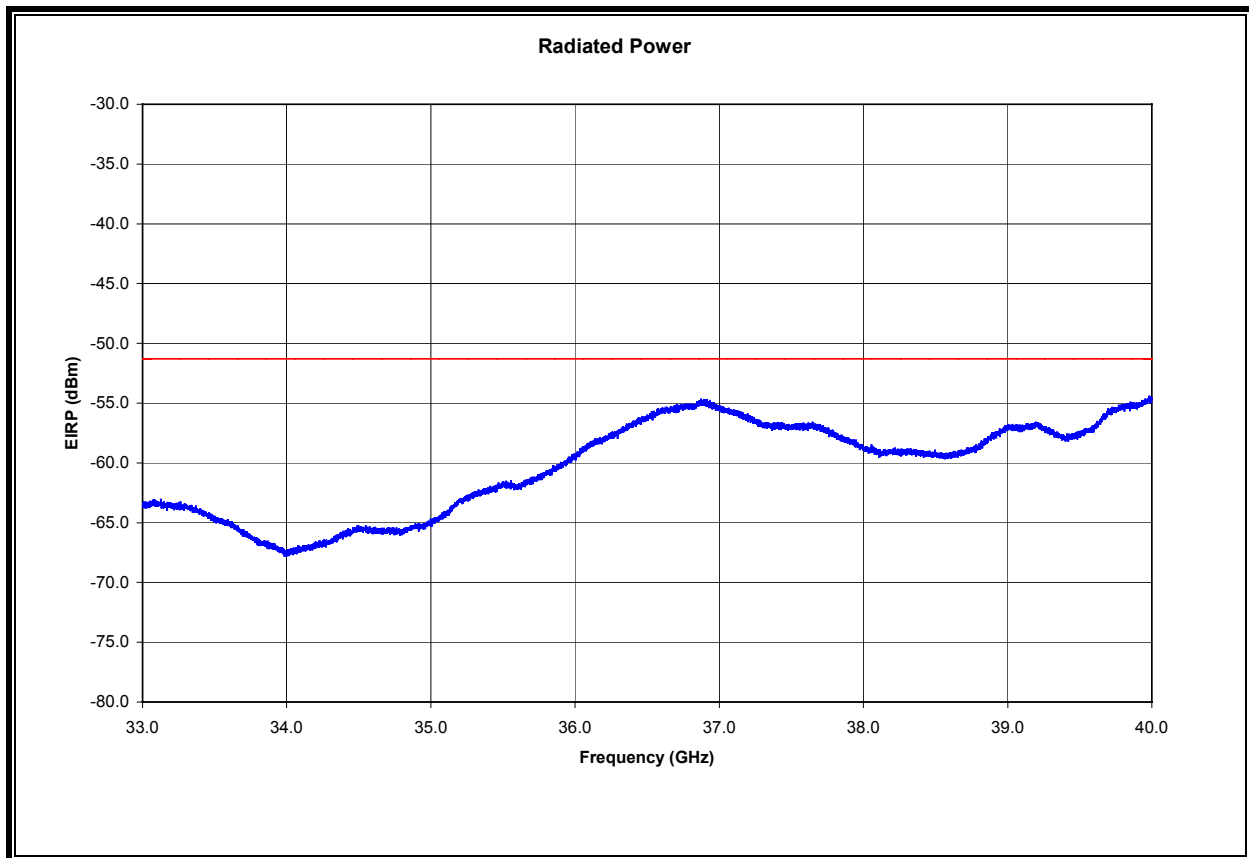
EIRP 26 TO 33 GHz, 1 MHz BW, VERTICAL



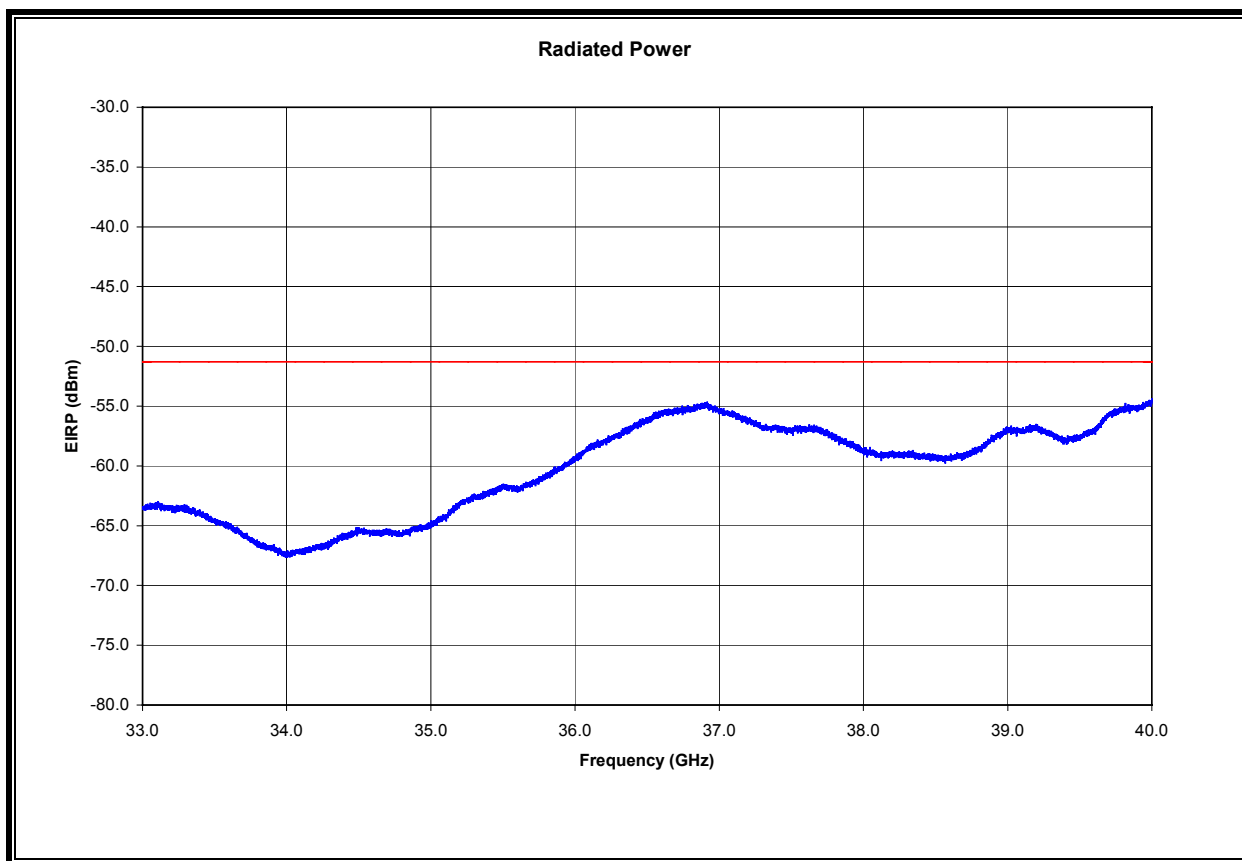
EIRP 26 TO 33 GHz, 1 MHz BW, HORIZONTAL



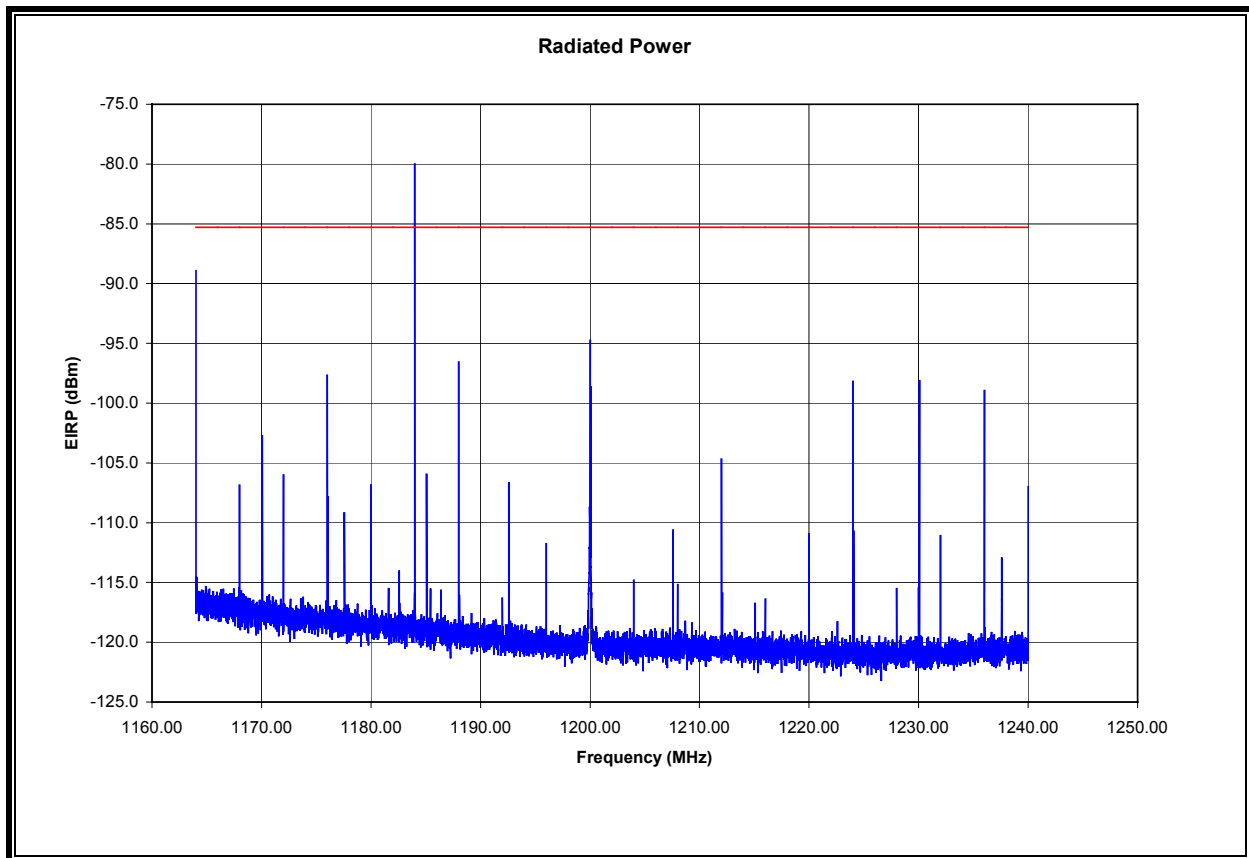
EIRP 33 TO 40 GHz, 1 MHz BW, VERTICAL



EIRP 33 TO 40 GHz, 1 MHz BW, HORIZONTAL



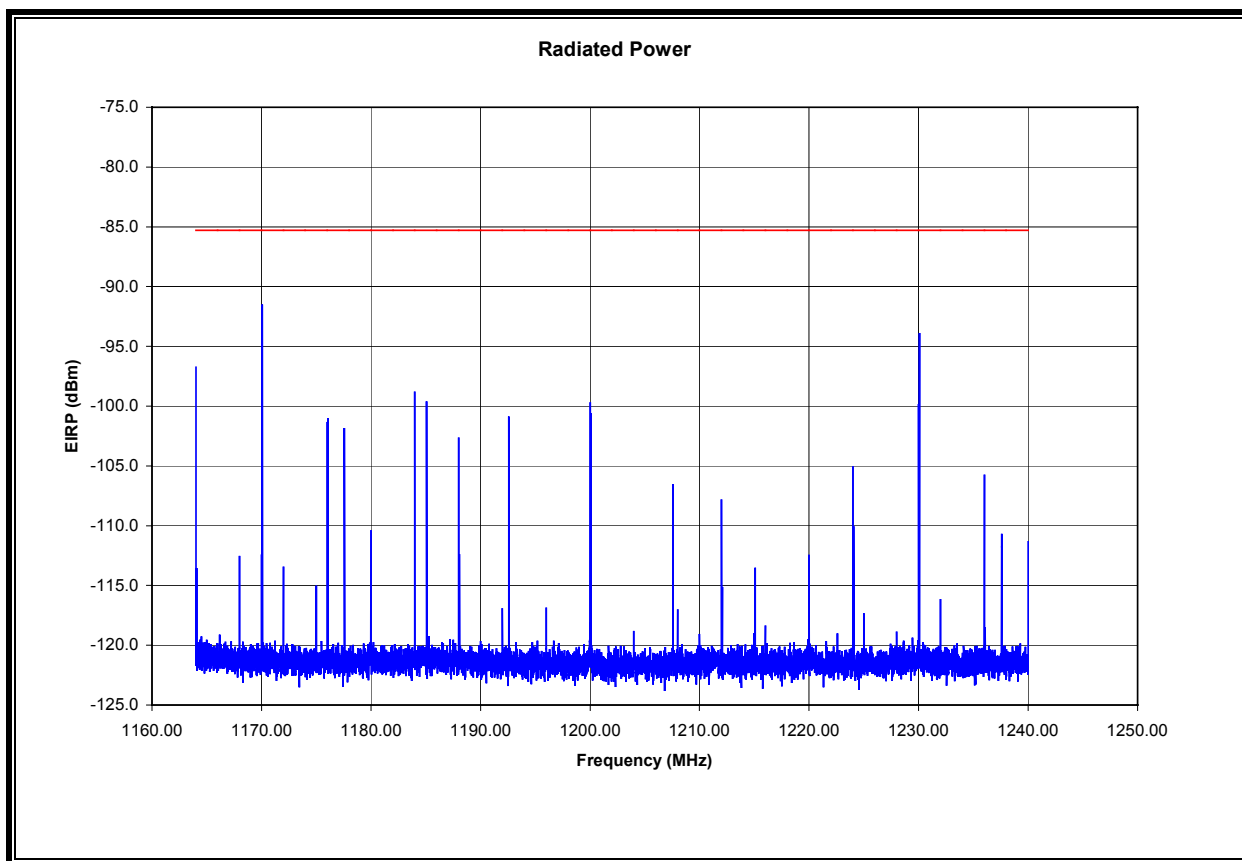
EIRP 1.164 TO 1.240 GHz, 1 kHz BW, VERTICAL



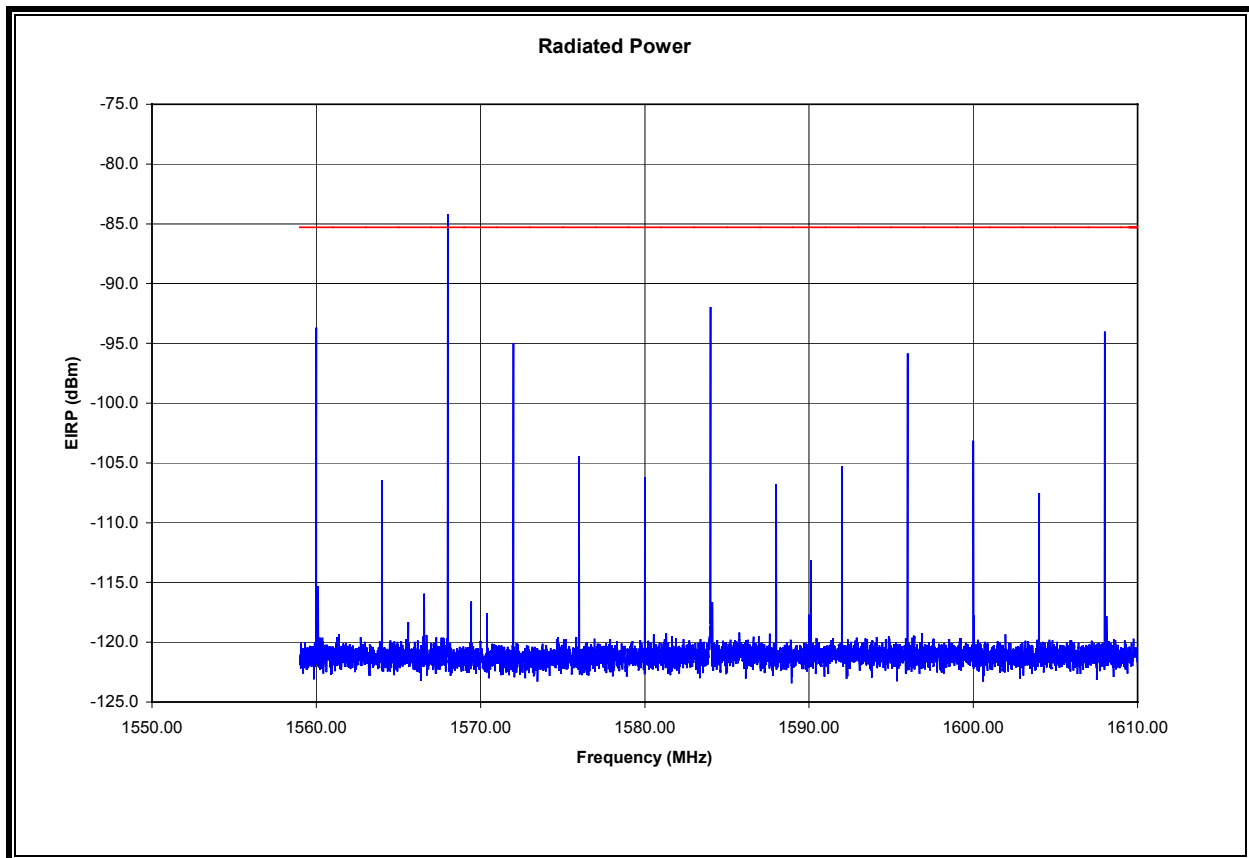
Note: All emissions above the limit line were identified as unintentional digital device emissions. None of the emissions above the limit line are due to the UWB radio.

The amplitude of these digital device emissions with respect to the applicable §15.209 limit are presented in the section "DIGITAL DEVICE RADIATED EMISSIONS ABOVE 960 MHz" below.

EIRP 1.164 TO 1.240 GHz, 1 kHz BW, HORIZONTAL



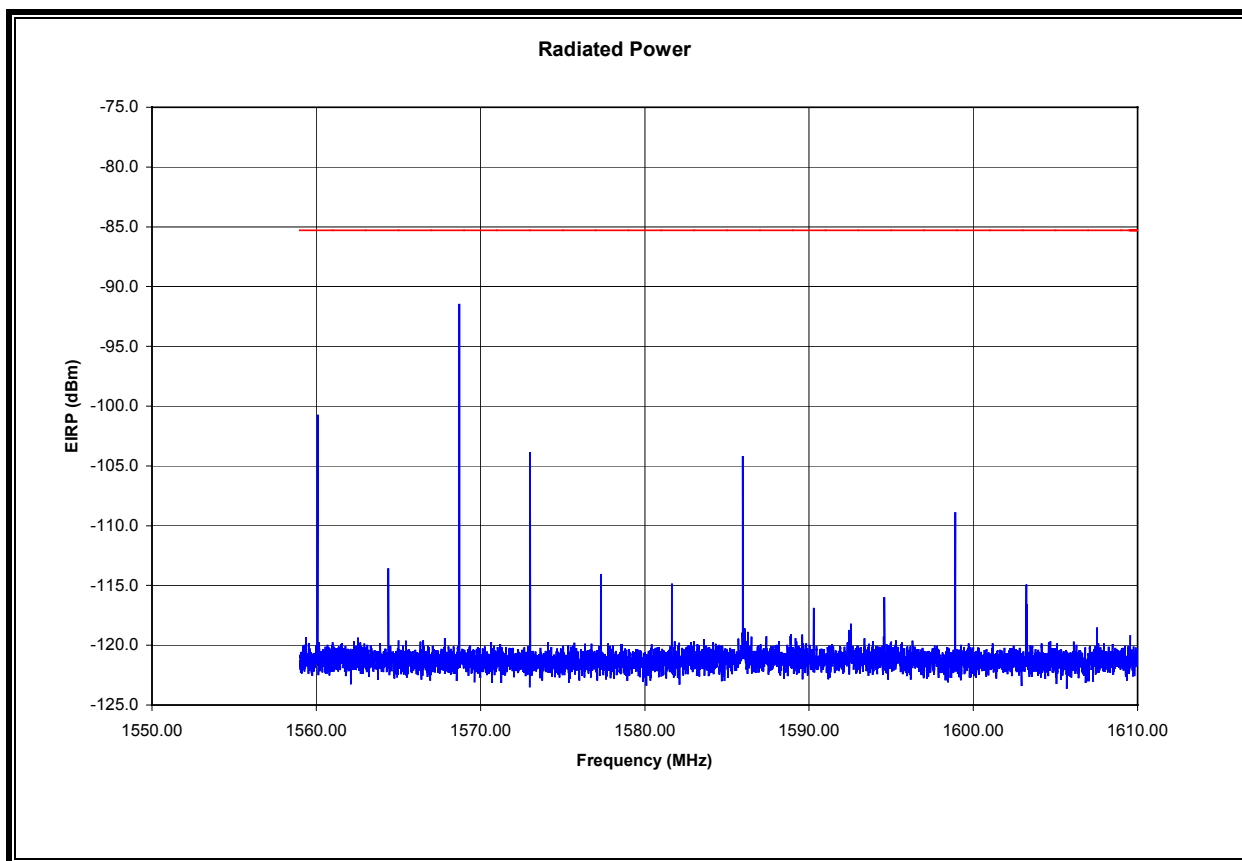
EIRP 1.559 TO 1.610 GHz, 1 kHz BW, VERTICAL



Note: All emissions above the limit line were identified as unintentional digital device emissions. None of the emissions above the limit line are due to the UWB radio.

The amplitude of these digital device emissions with respect to the applicable §15.209 limit are presented in the section "DIGITAL DEVICE RADIATED EMISSIONS ABOVE 960 MHz" below.

EIRP 1.559 TO 1.610 GHz, 1 kHz BW, HORIZONTAL



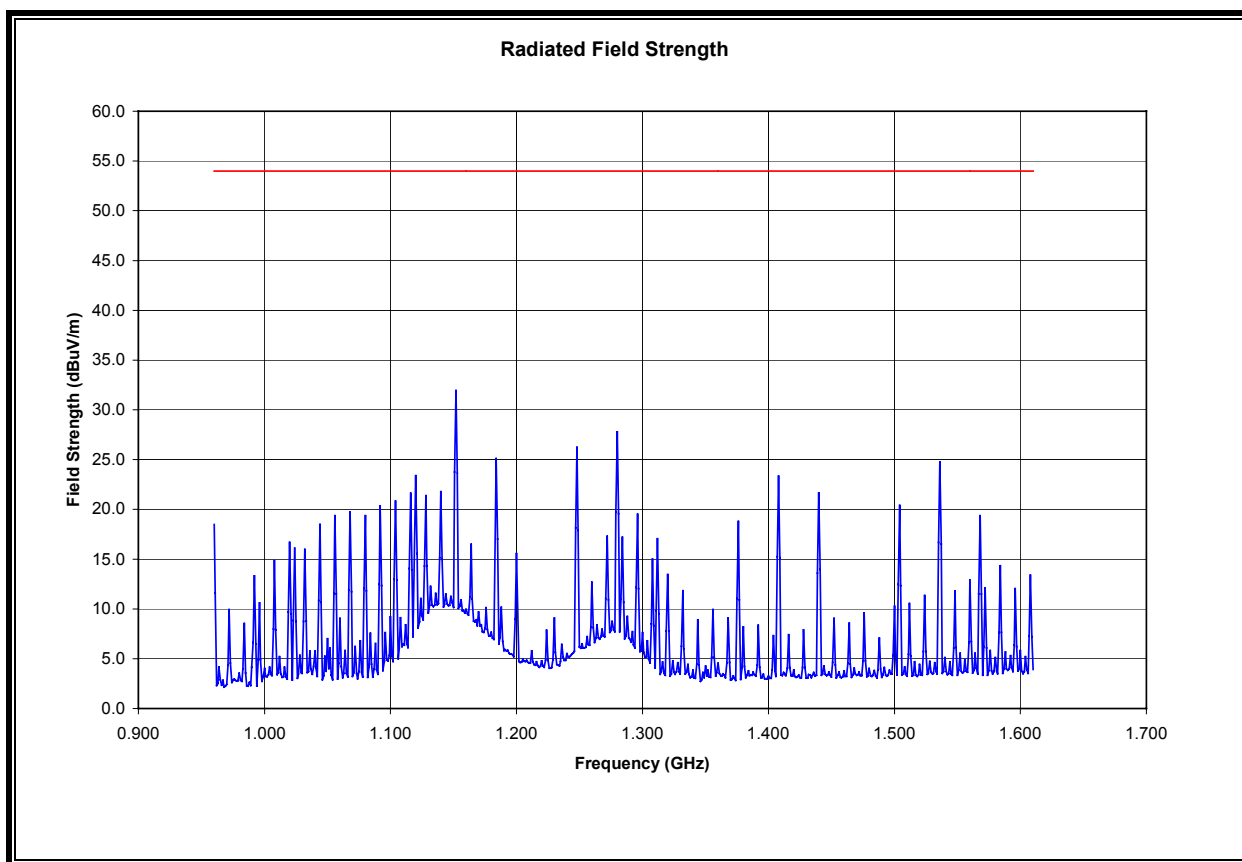
7.6. RADIATED DIGITAL DEVICE EMISSIONS ABOVE 960 MHz

LIMITS

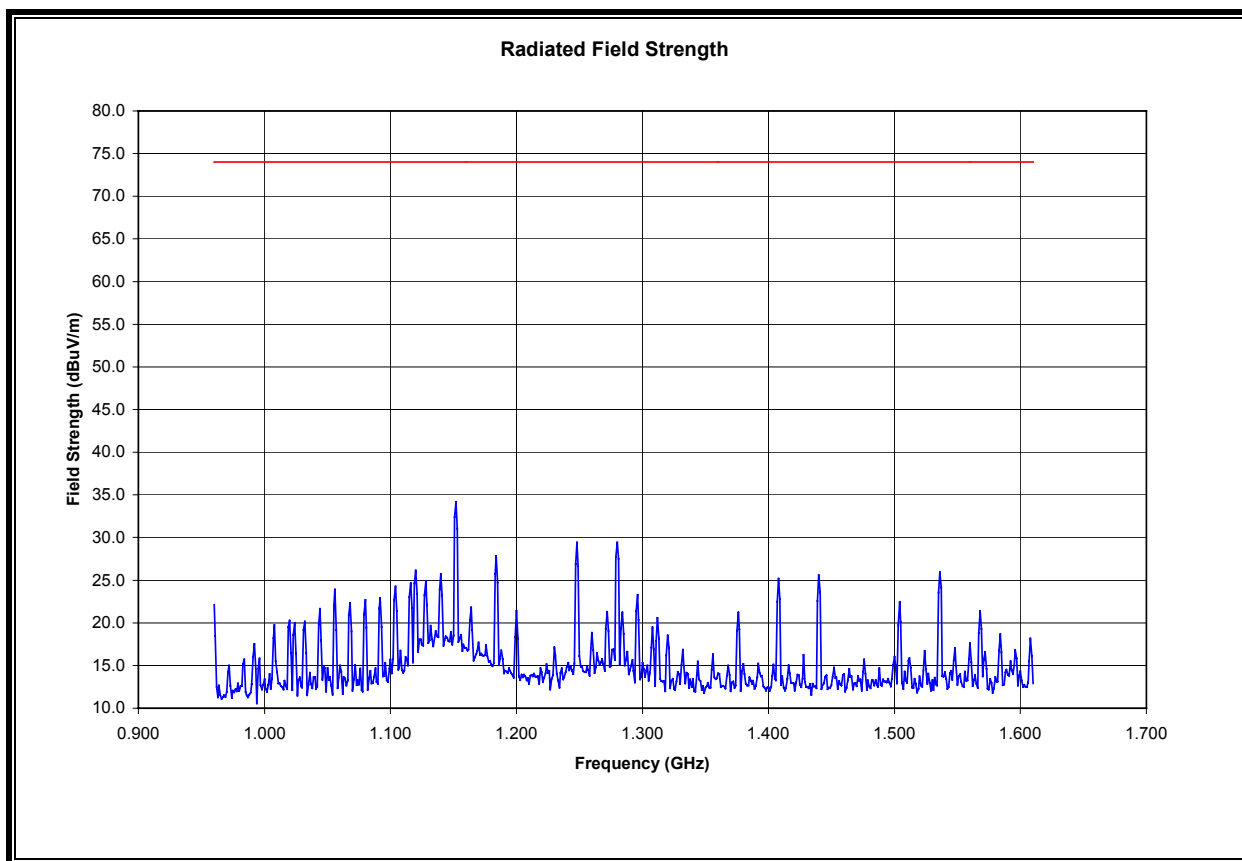
Emissions which exceed the UWB limit and have been identified as being generated by the digital device portion of the EUT rather than the UWB transmitter portion of the EUT are subject to the Class B limits of §15.109 instead of §15.521.

RESULTS

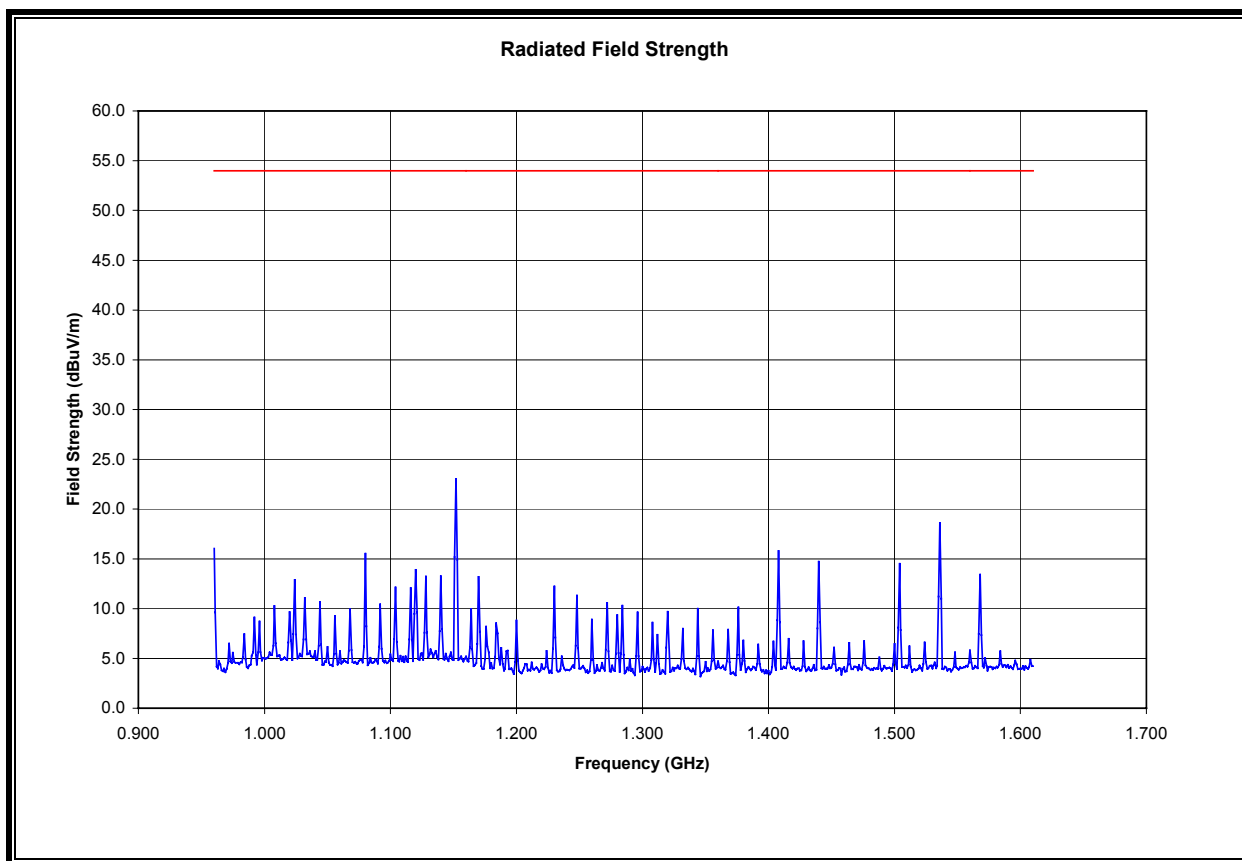
FIELD STRENGTH 0.960 TO 1.610 GHz, 1 MHz BW, VERTICAL, AVERAGE



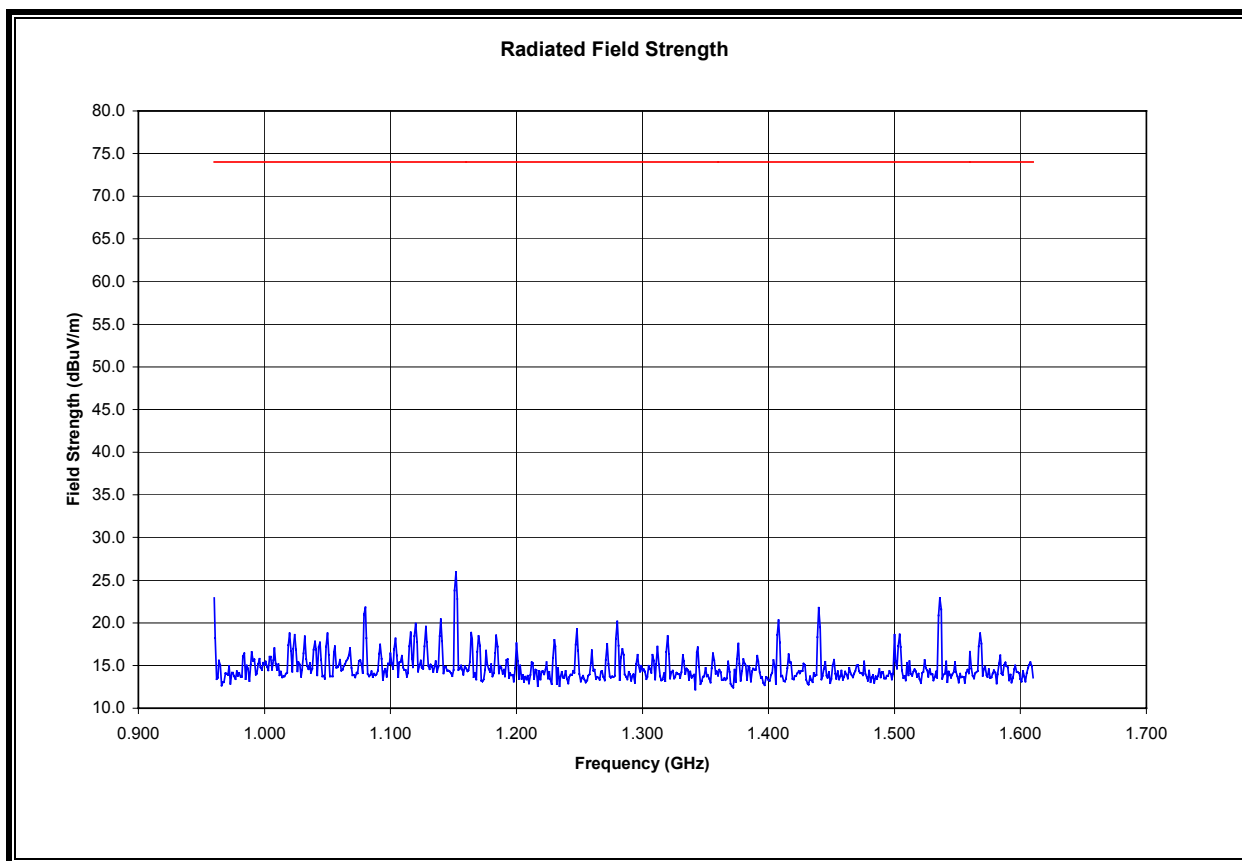
FIELD STRENGTH 0.960 TO 1.610 GHz, 1 MHz BW, VERTICAL, PEAK



FIELD STRENGTH 0.960 TO 1.610 GHz, 1 MHz BW, HORIZONTAL, AVERAGE



FIELD STRENGTH 0.960 TO 1.610 GHz, 1 MHz BW, HORIZONTAL, PEAK



7.7. POWERLINE CONDUCTED EMISSIONS

LIMIT

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

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

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

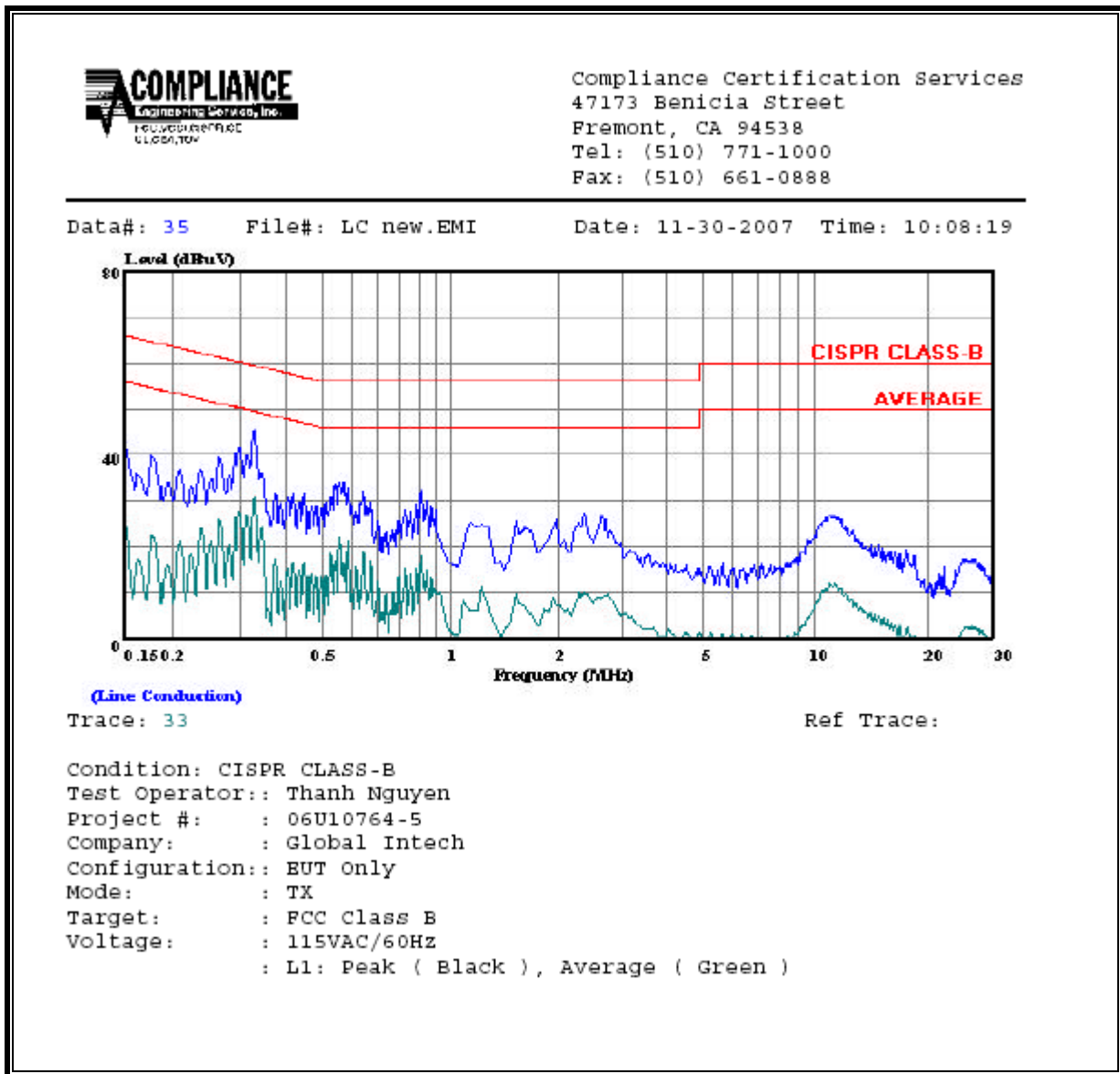
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.15	41.38	--	25.73	0.00	65.89	55.89	-24.51	-30.16	L1
0.33	45.04	--	30.63	0.00	59.45	49.45	-14.41	-18.82	L1
0.55	33.88	--	21.60	0.00	56.00	46.00	-22.12	-24.40	L1
0.15	41.72	--	29.79	0.00	66.00	56.00	-24.28	-26.21	L2
0.33	45.70	--	37.29	0.00	59.45	49.45	-13.75	-12.16	L2
0.56	36.90	--	29.55	0.00	56.00	46.00	-19.10	-16.45	L2
6 Worst Data									

LINE 1 RESULTS



LINE 2 RESULTS

