TEST REPORT

Report Number: 3077009LAX-001
Project Number: 3077009
August 25, 2005

Testing performed on the
Wireless Video Transmitter
FCC ID: PO288CE-T010
Model: CE-T010

to

FCC Part 15.249

For
Chang Industry, Inc.

A2LA ACCREDITED

A2LA Certificate Number: 2085-01

Test Performed by:
Intertek
27611 La Paz Road., Suite C
Laguna Niguel, CA 92677

Test Authorized by:
Chang Industry, Inc.
1925 McKinley Ave. Suite F
La Verne, CA 91750

Prepared by: _____ Date: August 25, 2005
Sergey Marker

Reviewed by: _____ Date: August 26, 2005
Ollie Moyrong

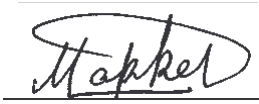
Table of Contents

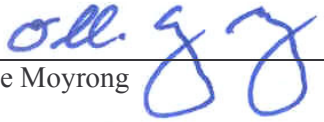
1.0 Summary of Test Results

FCC RULE	DESCRIPTION OF TEST	**RESULT**	**PAGE**
15.249a	Field Strength of fundamental	Worst case: 91.6 dB(µV/m) Margin: 2.4 dB	11
15.249a	Field Strength of harmonics	Worst case: 46.2 dB(µV/m) @ 9140 MHz. Margin: 7.8 dB	11
15.249c	Radiated emissions outside the band, except harmonics.	Worst case: 38.8 dB(µV/m) @ 601.4 MHz Margin: 7.2 dB	18
15.203	Antenna requirement	Complies	29
15.107 / 207	Line Conducted Emissions	N/A	
15.109 / 209	Radiated Emission	Worst case: 38.8 dB(µV/m) @ 601.4 MHz Margin: 7.2 dB(µV/m)	14, 16

We attest to the accuracy of this report:

EMC Department
Date of issue: August 25, 2005

Test Engineer: 
Sergey Marker

Reviewing Engineer: 
Ollie Moyrong

2.0 General Description

2.1 Product Description

EQUIPMENT UNDER TEST

Type of equipment	Wireless Video Transmitter
Type/Model	CE-T010
EUT description	*Video Camera :* • 1/3-inch CCD Image Sensor • Resolution: Horizontal 420 TV lines • Sensitivity: 0.05 LUX • Automatic Exposure Control • Pinhole Lens, 90˚ Field of View RF Transmitter: • Type of Emission: F3F • Frequency: 900 MHz ISM Band. • Can be configured to operate on one of four fixed frequencies: 909, 914, 919, 924 MHz • Output Power: 0 dBm • Modulation: FM • Antennas: ¼ Wave Vertical Antenna (permanently attached) • Batteries: Up to 4 hours of continuous operation with Lithium Polymer Pack
Manufacturer	Chang Industry, Inc. 1925 McKinley Ave. Suite F La Verne, CA 91750
Tested by request of	Mr. Steve Spears Tel: 909-596-7888 Fax: 909-596-8388
Standards:	FCC Part 15.249
Test Report No.	3077009LAX-001
FCC ID:	PO288CE-T010

2.2 Related Submittal(s) Grants

This report is for use with an application for certification of a low power transmitter. One transmitter is included in the application. This specific report details the emission characteristics of transmitter.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). Radiated emission measurements were performed in 10 m OATS. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.4 Test Facility

The test facility was a specially designed and constructed Open Area Test Site (OATS).
Test site included a metal ground plane constructed of 22-gauge sheet metal. It contained a 2.5 meter diameter turntable for floor standing equipment, and a fiber glass table measuring 1.5 x 1.5 x 0.8 meters for table top equipment. To facilitate testing, also it has heat and air conditioning systems to control environmental test conditions.
This test facility and site measurement data have been fully placed on file with the FCC, Industry of Canada and A2LA accredited.

Test Facility: Intertek ETL Semko
27611 La Paz Road, Suite C
Laguna Niguel, CA 92677

Accreditations:

FCC	Registration Number: 90711
A2LA	Certificate Number: 2085-01
IC	Reference Number: IC 3753

3.0 System Test Configuration

3.1 Justification

For emission testing, the equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). During testing, all cables were manipulated to produce worst case emissions.

For the measurements, the EUT is attached to a cardboard box (if necessary) and placed on the fiber glass turntable. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). The EUT is wired to transmit full power.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

3.2 EUT Exercising Software

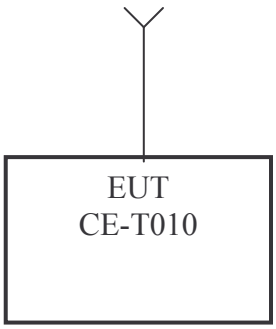
No software was required to exercise the EUT.

3.3 System Test Configuration

3.3.1 Support Equipment

No support equipment was required to operate the EUT.

3.3.2 Block Diagram of Test Setup



S:	Shielded	**U:**	Unshielded	**F:**	With Ferrite Core

Support Equipment					
Equip.#	**Equipment**	**Manufacturer**	**Model #**	**S/N #**	**FCC ID**
None					

3.4 Equipment Modification

None

3.5 Mode(s) of operation

The EUT was powered from fully charged batteries. During the tests EUT was operating at continuous transmitting mode

4.0 Field Strength of Emission

4.1 Test Description

Parameter:	FCC 15.249a
Requirement:	FCC 15.249a
Fundamental: **Harmonics:**	Limit 94 dBµV Limit 54 dBµV

4.1.1 Test Procedure

For the measurements, the EUT is attached to a cardboard box (if necessary) and placed on the wooden turntable which is 0.8 m above the ground plane 0n the open test site. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). The EUT is wired to transmit full power. The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Radiated emission measurements were performed from 30 MHz to the 10th harmonic of transmitter frequency. Analyzer resolution is 120 KHz for 30 to 1000 MHz, 1 MHz for >1000 MHz. This test was performed per test procedure specified in ANSI C63.4 (2003).

4.1.2 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with antennas, cables, preamplifiers (if any) and average factors (when specified limits is in average and measurements are made with peak detectors) The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG + AV

where FS = Field Strength in dB(µV/m)
RA = Receiver Amplitude in dB(µV)
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB/m
AG = Amplifier Gain in dB

Assume a receiver reading of 52.0 dB(µV) is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB(µV/m).

RA = 52 dB(µV) CF = 1.6 dB
AF = 7.4 dB/m AG = 29 dB FS = 52 + 7.4 + 1.6 - 29 = 32 dB(µV/m)

This value in dB(µV/m) was converted to its corresponding level in µV/m.
Level in µV/m = Common Antilogarithm {[32 dB(µV/m)]/20} = 39.8 µV/m
Note: In the following table(s), the level shown on the data table includes the antenna factor, cable factor and preamplifier gain.

4.1.3 Radiated Emission Data

Standard: FCC Part 15.249a
Company: Chang Industry, Inc.
Job No. 3077009LAX-001
Model Name: CE-T010
Date: 8/22/05
Distance: 3 m
Test Channel: Channel 1 (909 MHz)

Measurement Uncertainty: 3.92dB
Temperature: 24°C
Relative Humidity: 49 %

Frequency	Detector	Vertical level	Horizontal level	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	dB	(dBuV/m)	(dB)
909	Q.Peak	90.0	82.4	0.0	94	-4.0
1818	Peak	43.0	38.8	0.0	74.0	-30.7
1818	Ave	29.6	28.9	0.0	54.0	-24.4
*2727	Peak	48.5	46.0	0.0	74.0	-25.5
*2727	Ave.	33.8	32.8	0.0	54.0	-20.2
*3636	Peak	47.9	48.3	0.0	74.0	-25.7
*3636	Ave.	35.3	35.1	0.0	54.0	-18.7
*4545	Peak	49.6	48.6	0.0	74.0	-24.4
*4545	Ave.	36.5	35.2	0.0	54.0	-17.5
*5454	Peak	54.1	48.7	0.0	74.0	-19.9
*5454	Ave.	38.8	36.2	0.0	54.0	-15.2
6363	Peak	55.1	54.0	0.0	74.0	-18.9
6363	Ave.	39.8	39.6	0.0	54.0	-14.2
*7272	Peak	53.1	52.8	0.0	74.0	-21.2
*7272	Ave.	41.3	41.2	0.0	54.0	-12.7
*8181	Peak	54.1	54.8	0.0	74.0	-19.2
*8181	Ave.	42.8	43.0	0.0	54.0	-11.0
*9090	Peak	57.0	56.6	0.0	74.0	-17.0
*9090	Ave.	45.4	45.4	0.0	54.0	-8.6

Test Channel: Channel 4 (914 MHz)

Frequency	Detector	Vertical level	Horizontal level	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	dB	(dBuV/m)	(dB)
**914	Q.Peak	91.6	82.6	0.0	94	-2.4
1828	Peak	40.8	41.4	0.0	74.0	-32.6
1828	Ave	30.4	28.0	0.0	54.0	-23.6
*2742	Peak	45.1	43.5	0.0	74.0	-28.9
*2742	Ave.	32.5	31.3	0.0	54.0	-21.5
*3656	Peak	49.2	47.0	0.0	74.0	-24.8
*3656	Ave.	35.4	35.9	0.0	54.0	-18.1
*4570	Peak	49.9	47.8	0.0	74.0	-24.1
*4570	Ave.	36.4	36.7	0.0	54.0	-17.3
5484	Peak	52.5	50.6	0.0	74.0	-21.5
5484	Ave.	38.9	38.5	0.0	54.0	-15.1
6398	Peak	54.1	51.4	0.0	74.0	-19.9
6398	Ave.	39.6	39.3	0.0	54.0	-14.4
*7312	Peak	54.3	52.9	0.0	74.0	-19.7
*7312	Ave.	42.1	41.4	0.0	54.0	-11.9
*8226	Peak	55.0	54.9	0.0	74.0	-19.0
*8226	Ave.	43.3	43.0	0.0	54.0	-10.7
*9140	Peak	57.5	57.8	0.0	74.0	-16.2
*9140	Ave.	46.2	45.5	0.0	54.0	-7.8

Test Channel: Channel 2 (924 MHz)

Frequency	Detector	Vertical level	Horizontal level	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	dB	(dBuV/m)	(dB)
**924	Q.Peak	90.2	83.4	0.0	94	-3.8
1848	Peak	42.0	39.7	0.0	74.0	-32.0
1848	Ave	30.2	29.3	0.0	54.0	-23.8
*2772	Peak	42.9	44.8	0.0	74.0	-29.2
*2772	Ave.	32.4	32.9	0.0	54.0	021.1
*3696	Peak	48.3	47.7	0.0	74.0	-25.7
*3696	Ave.	35.9	35.6	0.0	54.0	-18.1
*4650	Peak	50.4	49.5	0.0	74.0	-23.6
*4650	Ave.	36.3	36.2	0.0	54.0	-17.7
5544	Peak	52.6	51.8	0.0	74.0	-21.4
5544	Ave.	39.0	38.9	0.0	54.0	-15.0
6468	Peak	52.5	53.8	0.0	74.0	-20.2
6468	Ave.	39.3	39.2	0.0	54.0	-14.7
*7392	Peak	53.4	52.3	0.0	74.0	-20.6
*7392	Ave.	41.1	41.2	0.0	54.0	-12.8
*8316	Peak	54.8	55.1	0.0	74.0	-18.9
*8316	Ave.	43.8	43.8	0.0	54.0	-10.2
9240	Peak	58.0	57.4	0.0	74.0	-16.0
9240	Ave.	45.5	45.4	0.0	54.0	-8.5

Notes:

a) The field strength shown in the table (Vertical and Horizontal levels) included Antenna factor, Cable loss and Pre-amplifier Gain (if applicable).

b) Negative signs (-) in Margin column signify levels below the limits.

c) For frequencies below 1000 MHz the, above limits are based on quasi-peak limits.
Analyzer setting: RBW =120 KHz, VBW =300 KHz

d) For frequencies above 1000 MHz the, above limits are based on average limits.
Analyzer setting: RBW =1 MHz, VBW =1 MHz

e) Peak measurement shown for the compliance with 15.35b (peak measurements of emission shall not exceed the average limits specified above by more than 20 dB).

f) All other emissions not reported are below the equipment noise floor which is at least 6 dB below the limits.

g) D.C.F: Distance Correction Factor.

h) * Restricted Frequency Band. Only spurious emissions are permitted (15.205).

Test Result	**Passed with margin 2.4 dB at 914 MHz.** ** The measurement result is below the specification limit by a margin less than the measurement uncertainty; it is not therefore possible to determine compliance at a level of confidence of 95%. However, the measured result indicates a high probability that the product tested complies with the specification limit

4.2 Test Description

Parameter:	FCC 15.109
Requirement:	FCC 15.109, class B
30-88 MHz 88-216 MHz 216-960 MHz Above 960 MHz	40 dBµ @ 3 m 43.5 dBµV @ 3 m 46 dBµV @ 3 m 54 dBµV @ 3 m

4.2.1 Test Procedure

See section 4.1.1.

4.2.2 Field Strength Calculation

See section 4.1.2.

4.2.3 Radiated Emission Data

Standard: FCC Part 15, Subpart C (15.109) Measurement Uncertainty: 3.92dB
Company: Chang Industry, Inc. Temperature: 24°C
Job No. 3077009LAX-001 Relative Humidity: 49 %
Model Name: CE-T010
Date: 8/23/05
Mode: Channel 1 (904 MHz)

Frequency	Detector	Vertical level	Horizontal level	Distance	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	m	dB	(dBuV/m)	(dB)
601.4	Q-P	38.5	30.9	3	0.0	46	-7.5

Mode: Channel 4 (914 MHz)

Frequency	Detector	Vertical level	Horizontal level	Distance	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	m	dB	(dBuV/m)	(dB)
601.4	Q-P	37.5	30.5	3	0.0	46	-8.5

Mode: Channel 2 (924 MHz)

Frequency	Detector	Vertical level	Horizontal level	Distance	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	m	dB	(dBuV/m)	(dB)
601.4	Q-P	38.8	31.2	3	0.0	46	-7.2

Notes:

a) The field strength shown in the table for Q-Peak Detector (Vertical and Horizontal levels) included Antenna factor, Cable loss and Pre-amplifier Gain (if applicable).

b) All emissions not reported were at least 20 dB below the limits or noise level of EMI receiver.

c) Negative signs (-) in Margin column signify levels below the limits.

d) Analyzer setting: RBW ≥1 MHz, VBW ≥ 1 MHz, for freq. > 1 GHz
RBW ≥100kKHz, VBW ≥ 100 kHz, for freq. < 1 GHz
RBW ≥1 kHz, VBW ≥ 1 kHz for freq, < 150 kHz
Detector mode: Average (>1 GHz and < 150 kHz) and Quasi-peak (<1 GHz).

e) D.C.F: Distance Correction Factor

Test Result	Passed with 7.2 dB margin at 601.4 MHz.

4.3 Test Description

Parameter:	FCC 15.209
Requirement:	FCC 15.209
0.009 – 0.490	2400/F (kHz) (µV/m) @ 300 m
0.490 – 1.705	2400/F (kHz) (µV/m) @ 30 m
1.705 – 30.0	29.5 dBµV @ 30 m
30-88 MHz	40 dBµ @ 3 m
88-216 MHz	43.5 dBµV @ 3 m
216-960 MHz	46 dBµV @ 3 m
Above 960 MHz	54 dBµV @ 3 m

4.3.1 Test Procedure

See section 4.1.1.

4.3.2 Field Strength Calculation

See section 4.1.2.

4.3.3 Radiated Emission Data

Standard: FCC Part 15, Subpart C (15.209) Measurement Uncertainty: 3.92dB
Company: Chang Industry, Inc. Temperature: 24°C
Job No. 3077009LAX-001 Relative Humidity: 49 %
Model Name: CE-T010
Date: 8/23/05
Mode: Channel 1 (904 MHz)

Frequency	Detector	Vertical level	Horizontal level	Distance	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	m	dB	(dBuV/m)	(dB)
601.4	Q-P	38.5	30.9	3	0.0	46	-7.5

Mode: Channel 4 (914 MHz)

Frequency	Detector	Vertical level	Horizontal level	Distance	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	m	dB	(dBuV/m)	(dB)
601.4	Q-P	37.5	30.5	3	0.0	46	-8.5

Mode: Channel 2 (924 MHz)

Frequency	Detector	Vertical level	Horizontal level	Distance	D.C.F.	Limit	Margin
MHz		(dBuV/m)	(dBuV/m)	m	dB	(dBuV/m)	(dB)
601.4	Q-P	38.8	31.2	3	0.0	46	-7.2

Notes:

a) The field strength shown in the table for Q-Peak Detector (Vertical and Horizontal levels) included Antenna factor, Cable loss and Pre-amplifier Gain (if applicable).

b) All emissions not reported were at least 20 dB below the limits or noise level of EMI receiver

c) Negative signs (-) in Margin column signify levels below the limits.

d) Analyzer setting: RBW ≥1 MHz, VBW ≥ 1 MHz, for freq. > 1 GHz
RBW ≥100kKHz, VBW ≥ 100 kHz, for freq. < 1 GHz
RBW ≥1 kHz, VBW ≥ 1 kHz for freq, < 150 kHz
Detector mode: Average (>1 GHz and < 150 kHz) and Quasi-peak (<1 GHz).

e) D.C.F: Distance Correction Factor

Test Result	**Passed with 7.2 dB margin at 601.4 MHz.**

5 Out of Band Emission

5.1 Test Description

Parameter:	FCC 15.249c
Requirement:	FCC 15.249c
Attenuation limits	> 50 dB or FCC 15.209

5.2 Test Procedure

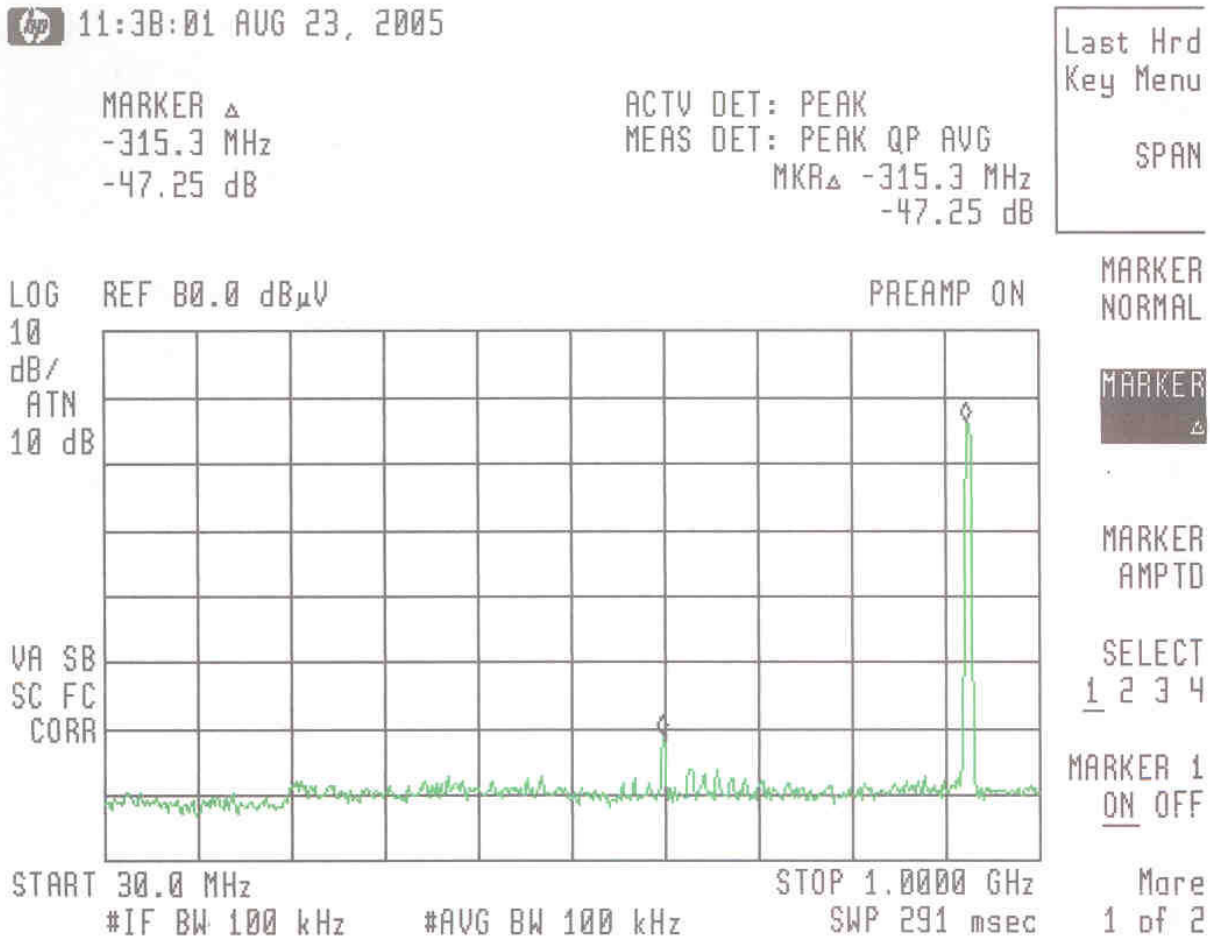
These measurements performed inside the semi anechoic chamber. For measurements below 1 GHz, a biconilog antenna was used. For measurements above 1 GHz, a horn antenna was used. Several plots were made to show emissions from 30 MHz up to 7th harmonic.

5.3 Test Results

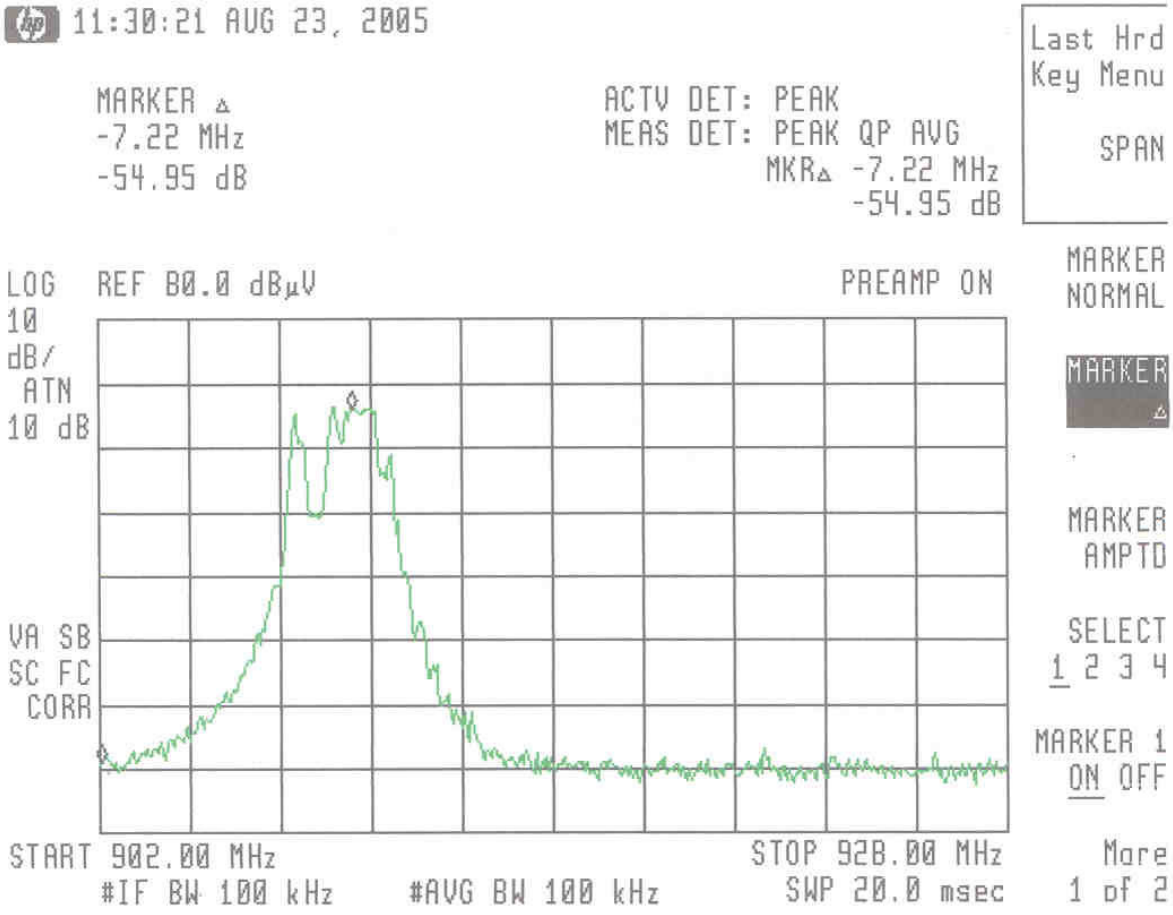
The following plots show the relative spurious emission levels of the transmitter.

Plot #	Description
5.3.1	Plot shows peak measurements differential between fundamental and frequency range from 30 to 902 MHz. Complies with >50 dB, except @ f = 601.4 MHz complies with 15.209 (see section 4.3).
5.3.2	Plot shows peak measurements differential between fundamental @ 904 MHz and lower edge of the frequency band. Complies with >50 dB.
5.3.3	Plot shows peak measurements differential between fundamental @ 904 MHz and upper edge of the frequency band. Complies with >50 dB.
5.3.4	Plot shows peak measurements differential between fundamental @ 914 MHz and lower edge of the frequency band. Complies with >50 dB.
5.3.5	Plot shows peak measurements differential between fundamental @ 914 MHz and upper edge of the frequency band. Complies with >50 dB.
5.3.6	Plot shows peak measurements differential between fundamental @ 924 MHz and lower edge of the frequency band. Complies with >50 dB.
5.3.7	Plot shows peak measurements differential between fundamental @ 924 MHz and upper edge of the frequency band. Complies with >50 dB.
5.3.8	Plot shows peak measurements differential between fundamental and frequency range from 902 to 2000 MHz. Complies with >50 dB.
5.3.9	Plot shows no spurious emission from 2000 to 4000 MHz. It also shows compliance with 50 dB below the level of fundamental (complies with >50 dB)
5.3.10	Plot shows no spurious emission from 4000 to 6500 MHz. It also shows compliance with 50 dB below the level of fundamental (complies with >50 dB)

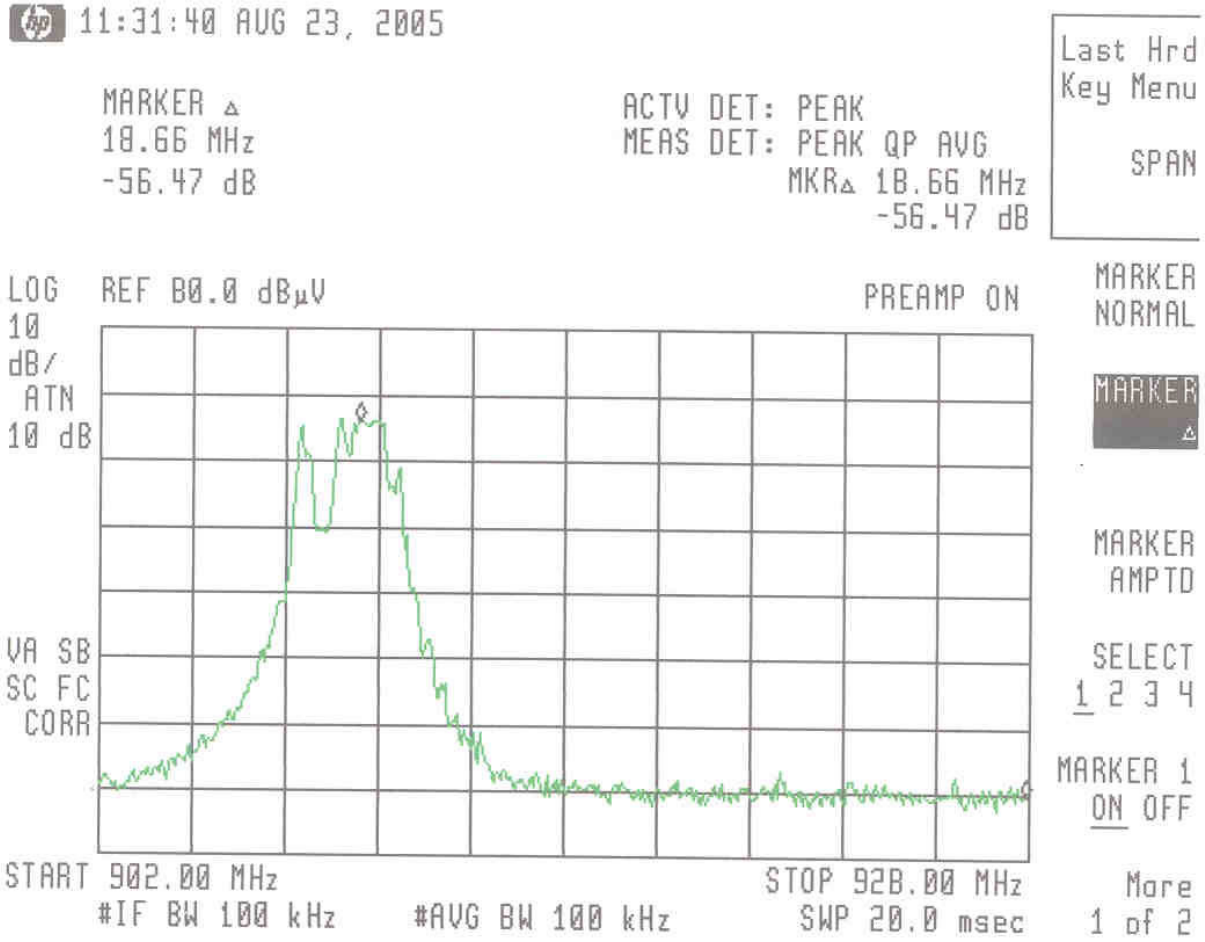
Note 1: There are no emissions observed above 3rd harmonic of fundamental frequency. All spurious emissions outside the frequency band 902 – 928 MHz are attenuated by more than 50 dB below the level of fundamental or below the limits specified in 15.209


11:38:01 AUG 23, 2005
MARKER Δ
-315.3 MHz
-47.25 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ -315.3 MHz
-47.25 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 80.0 dBµV
PREAMP ON
MARKER NORMAL
MARKER
MARKER AMPTD
SELECT
1 2 3 4
MARKER 1
ON OFF
VA SB
SC FC
CORR
START 30.0 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 1.0000 GHz
SWP 291 msec
More
1 of 2

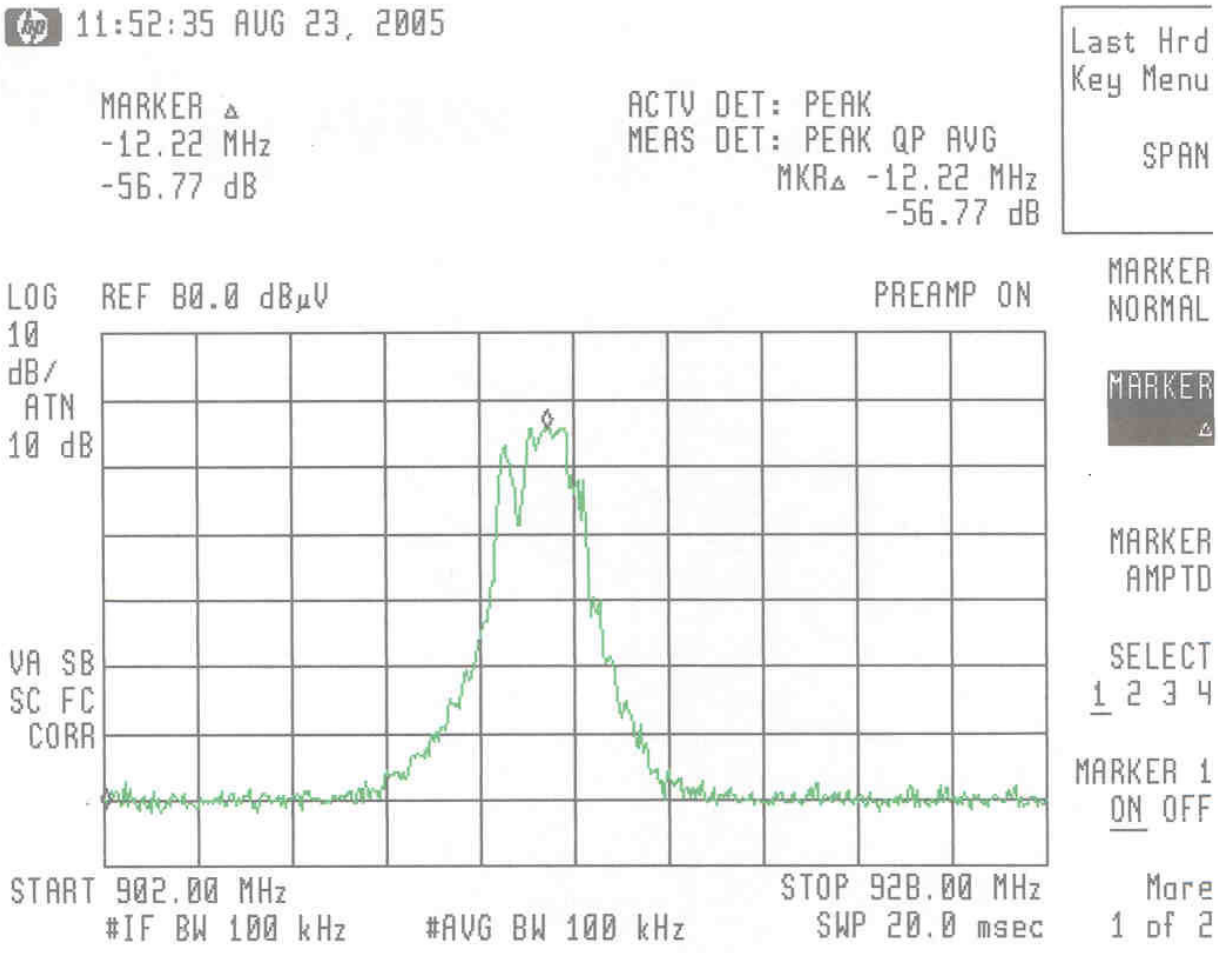
Plot 5.3.1


11:30:21 AUG 23, 2005
MARKER Δ
-7.22 MHz
-54.95 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ -7.22 MHz
-54.95 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 80.0 dBµV
PREAMP ON
MARKER NORMAL
MARKER Δ
MARKER AMPTD
SELECT 1 2 3 4
MARKER 1 ON OFF
More 1 of 2
VA SB
SC FC
CORR
START 902.00 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 928.00 MHz
SWP 20.0 msec

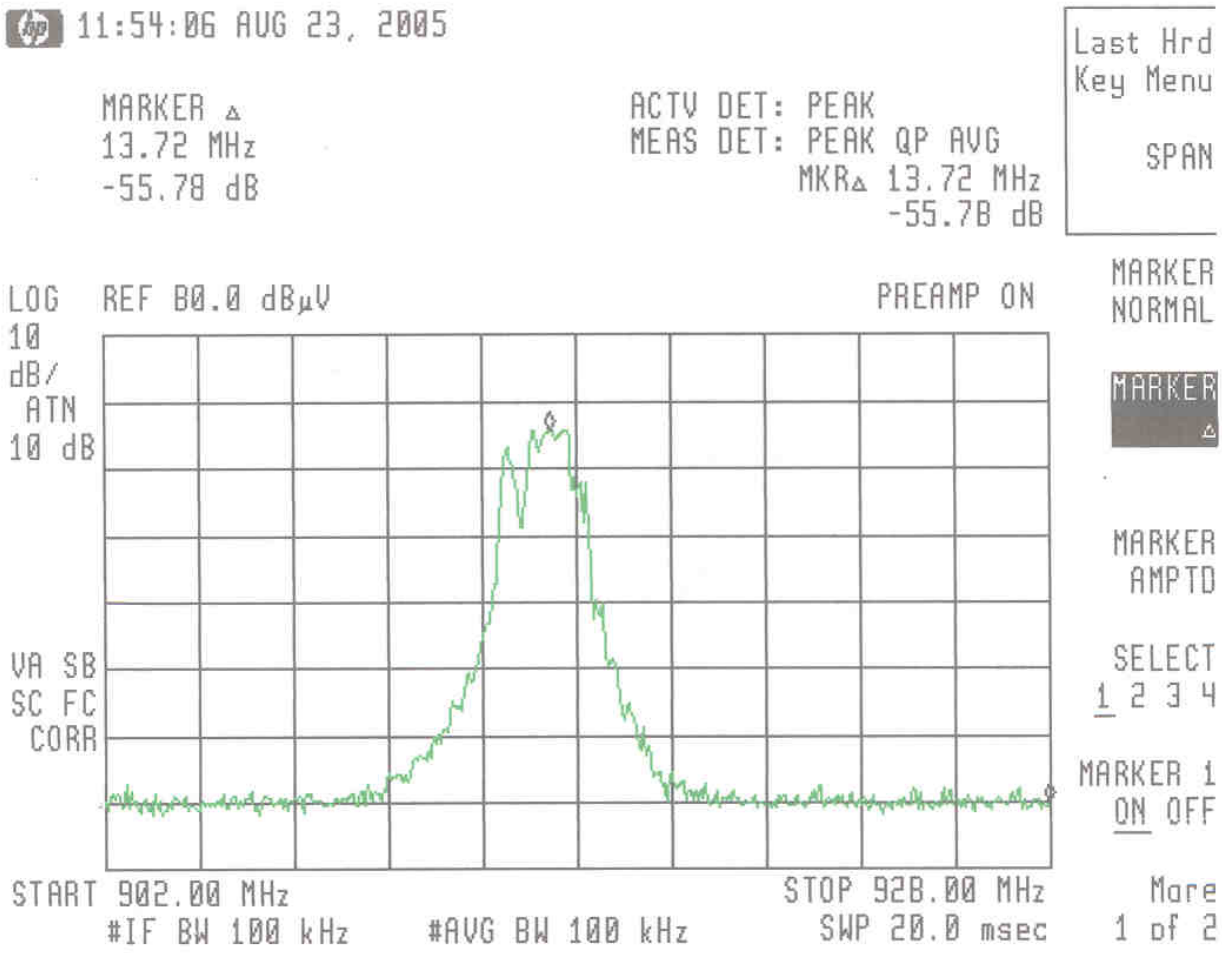
Plot 5.3.2


11:31:40 AUG 23, 2005
MARKER Δ
18.66 MHz
-56.47 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ 18.66 MHz
-56.47 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 80.0 dBµV
PREAMP ON
MARKER NORMAL
MARKER Δ
MARKER AMPTD
SELECT 1 2 3 4
MARKER 1 ON OFF
More 1 of 2
VA SB
SC FC
CORR
START 902.00 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 928.00 MHz
SWP 20.0 msec

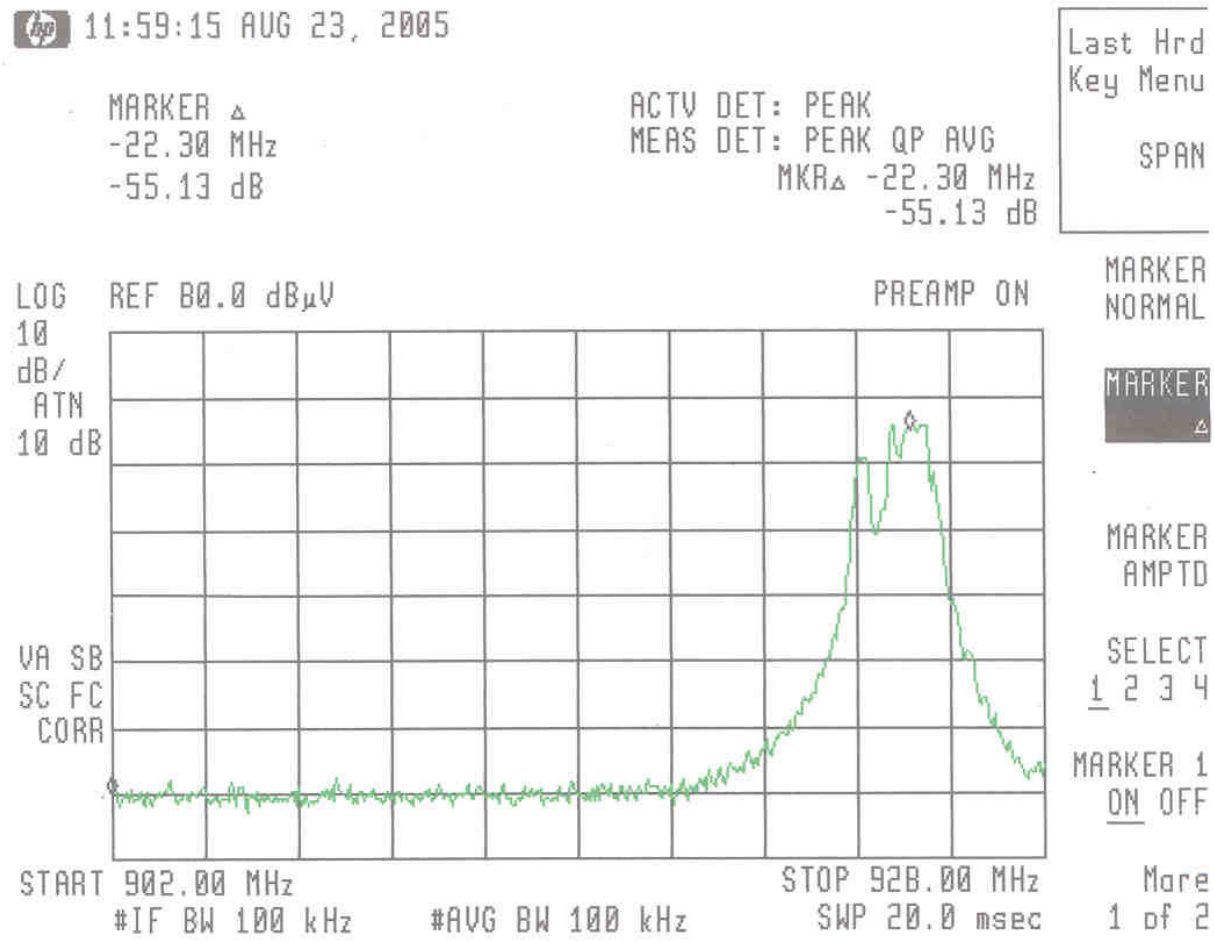
Plot 5.3.3


11:52:35 AUG 23, 2005
MARKER Δ
-12.22 MHz
-56.77 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ -12.22 MHz
-56.77 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 80.0 dBµV
PREAMP ON
MARKER NORMAL
MARKER Δ
MARKER AMPTD
SELECT 1 2 3 4
MARKER 1 ON OFF
VA SB
SC FC
CORR
START 902.00 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 928.00 MHz
SWP 20.0 msec
More 1 of 2

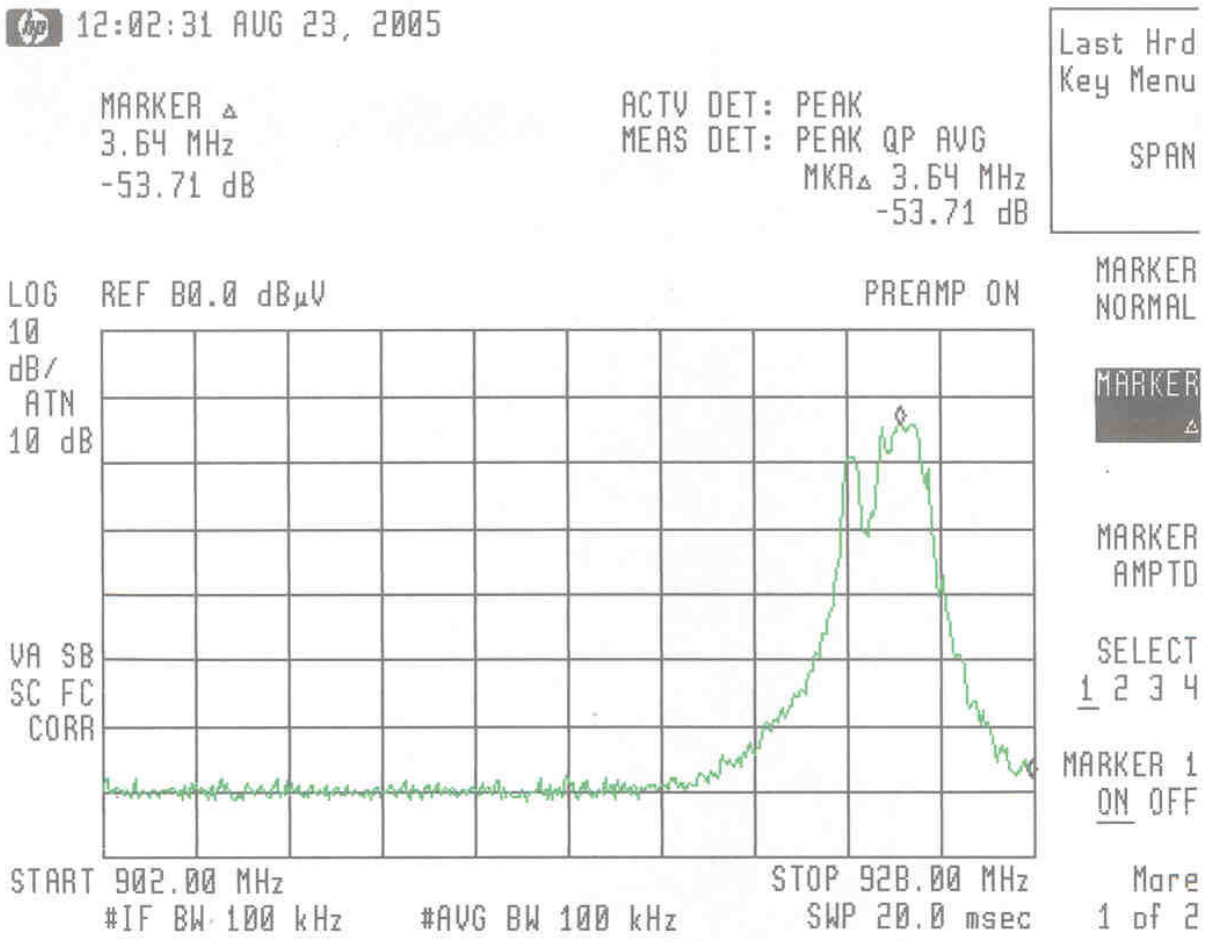
Plot 5.3.4


11:54:06 AUG 23, 2005
MARKER Δ
13.72 MHz
-55.78 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ 13.72 MHz
-55.78 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 80.0 dBµV
PREAMP ON
MARKER NORMAL
MARKER Δ
MARKER AMPTD
SELECT 1 2 3 4
MARKER 1 ON OFF
VA SB
SC FC
CORR
START 902.00 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 928.00 MHz
SWP 20.0 msec
More 1 of 2

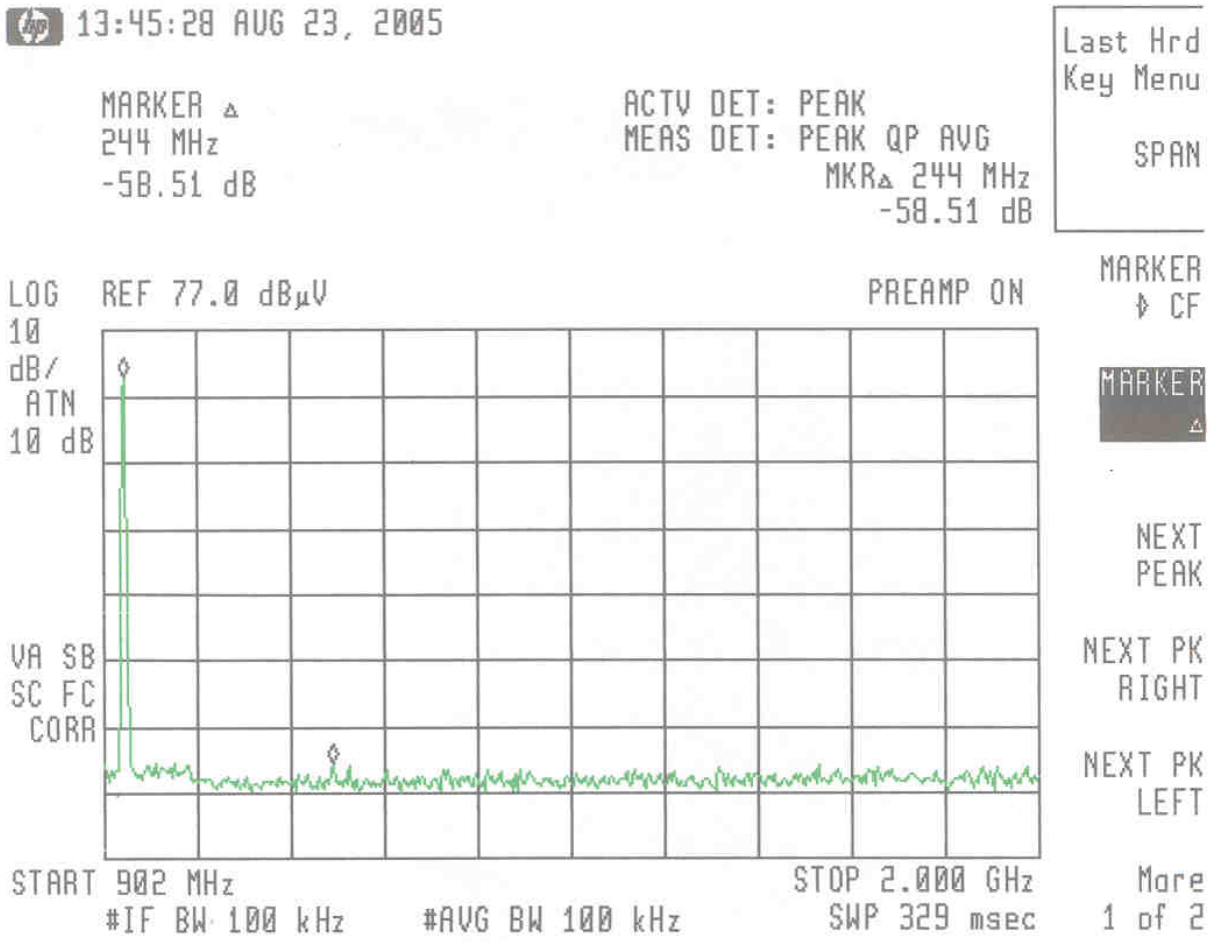
Plot 5.3.5


11:59:15 AUG 23, 2005
MARKER Δ
-22.30 MHz
-55.13 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ -22.30 MHz
-55.13 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 80.0 dBµV
PREAMP ON
MARKER NORMAL
MARKER Δ
MARKER AMPTD
SELECT 1 2 3 4
MARKER 1 ON OFF
More 1 of 2
VA SB
SC FC
CORR
START 902.00 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 928.00 MHz
SWP 20.0 msec

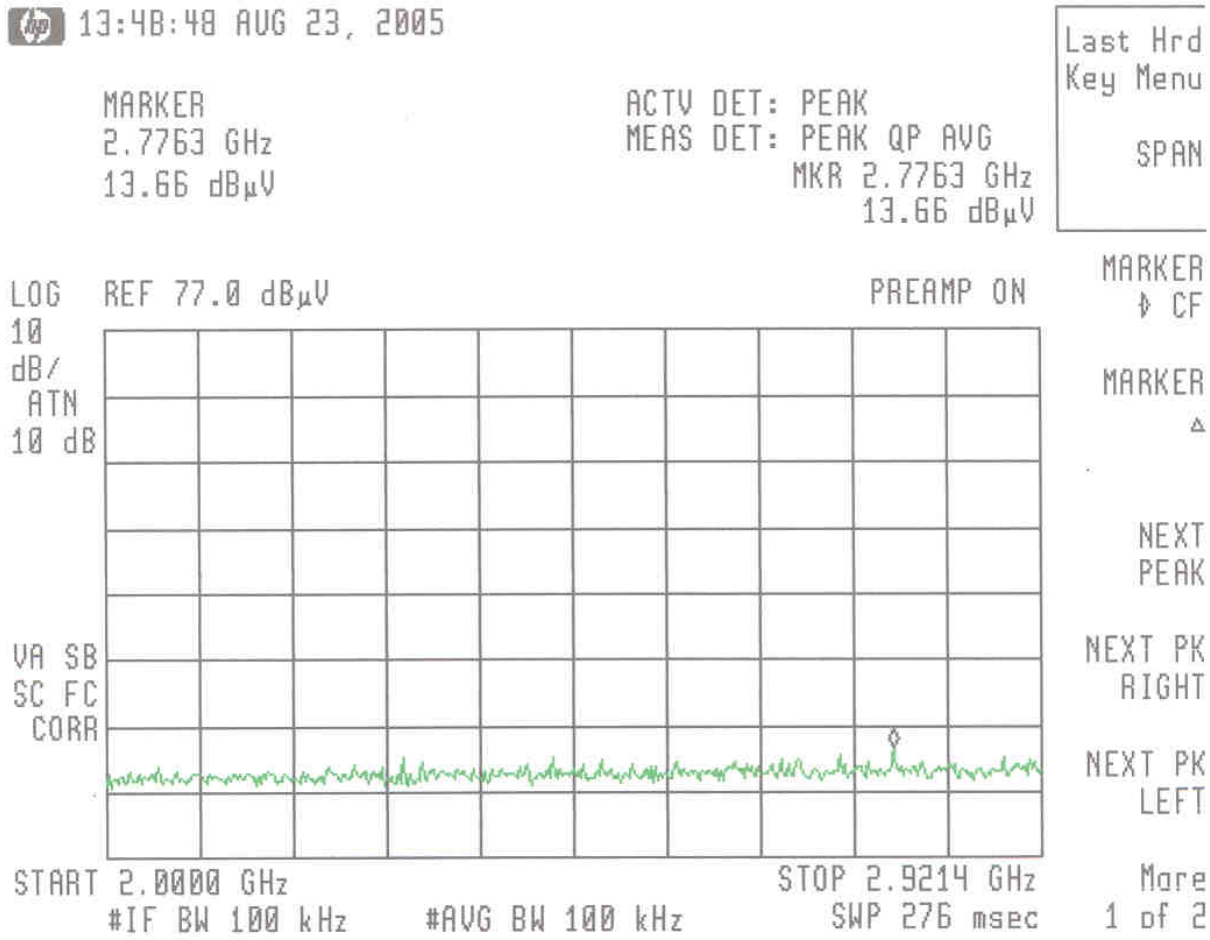
Plot 5.3.6


12:02:31 AUG 23, 2005
MARKER Δ
3.64 MHz
-53.71 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ 3.64 MHz
-53.71 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 80.0 dBµV
PREAMP ON
VA SB
SC FC
CORR
MARKER NORMAL
MARKER Δ
MARKER AMPTD
SELECT 1 2 3 4
MARKER 1 ON OFF
More 1 of 2
START 902.00 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 928.00 MHz
SWP 20.0 msec

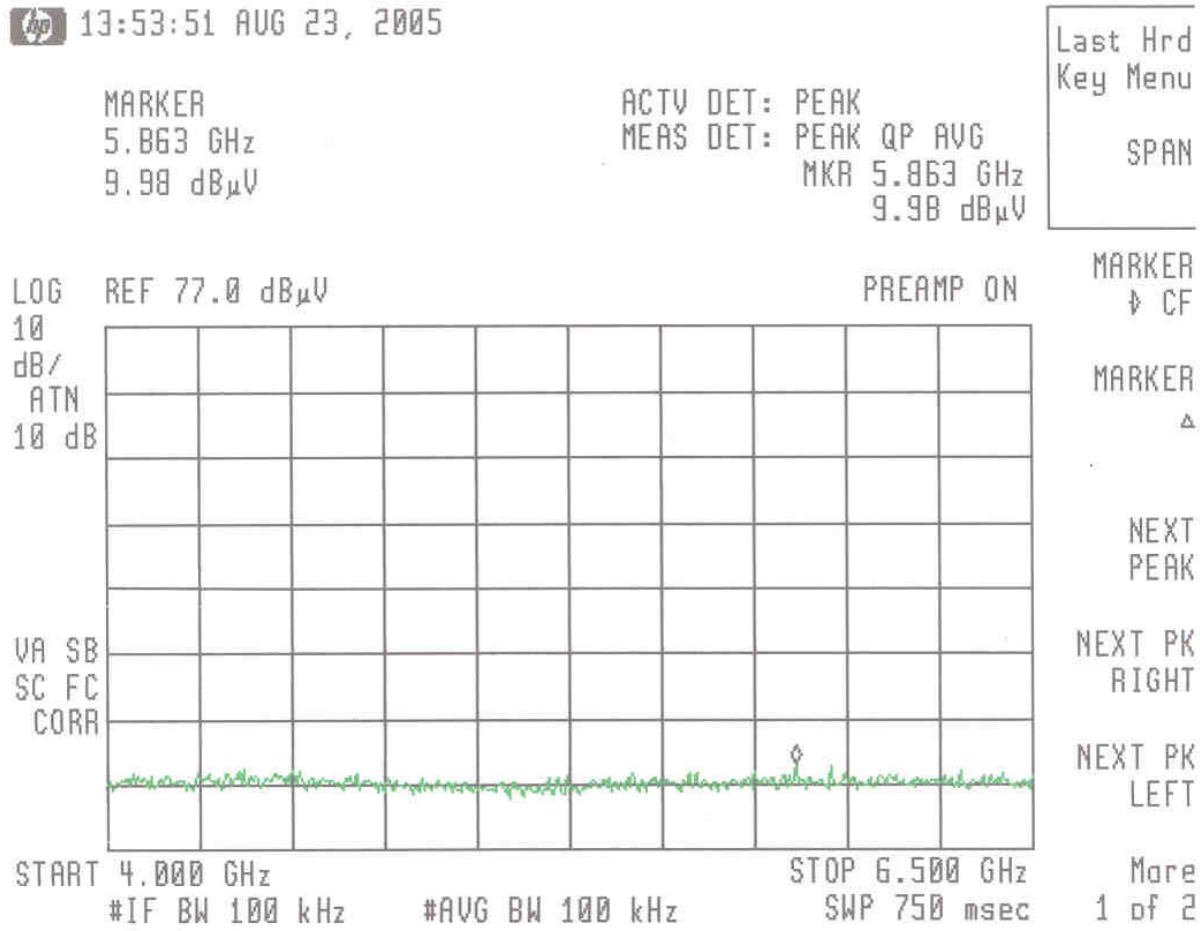
Plot 5.3.7


13:45:28 AUG 23, 2005
MARKER Δ
244 MHz
-58.51 dB
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ 244 MHz
-58.51 dB
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 77.0 dBµV
PREAMP ON
MARKER → CF
MARKER Δ
NEXT PEAK
NEXT PK RIGHT
NEXT PK LEFT
More 1 of 2
VA SB
SC FC
CORR
START 902 MHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 2.000 GHz
SWP 329 msec

Plot 5.3.8


13:48:48 AUG 23, 2005
MARKER
2.7763 GHz
13.66 dBµV
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 2.7763 GHz
13.66 dBµV
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 77.0 dBµV
PREAMP ON
MARKER → CF
MARKER Δ
NEXT PEAK
NEXT PK RIGHT
NEXT PK LEFT
More 1 of 2
VA SB
SC FC
CORR
START 2.0000 GHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 2.9214 GHz
SWP 276 msec

Plot 5.3.9


13:53:51 AUG 23, 2005
MARKER
5.863 GHz
9.98 dBµV
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 5.863 GHz
9.98 dBµV
Last Hrd Key Menu
SPAN
LOG
10
dB/
ATN
10 dB
REF 77.0 dBµV
PREAMP ON
MARKER → CF
MARKER Δ
NEXT PEAK
NEXT PK RIGHT
NEXT PK LEFT
More 1 of 2
VA SB
SC FC
CORR
START 4.000 GHz
#IF BW 100 kHz
#AVG BW 100 kHz
STOP 6.500 GHz
SWP 750 msec

Plot 5.3.10

6.0 Antenna Requirement

6.1 Test description

Parameter:	FCC 15.203
Requirement:	FCC 15.203
Descriptions:	No antenna other than furnished by the responsible party shall be used with the device.

6.2 Test Procedure

None

6.3 Test Result

The device is considered to comply with the requirements by:

	Description
X	The transmitter uses a permanently connected antenna.
	The antenna is affixed to the EUT using a unique connector which allows for replacement of a broken antenna, but does NOT use a standard antenna jack or electrical connector.

7.0 TEST EQUIPMENT

Measurement equipment used for emission compliance testing utilized the equipment on the following list:

Receivers / Spectrum Analyzers

DESCRIPTION	SERIAL NO.	LAST CAL DATE	CAL DUE	TICK IF USED
HP 8546A Receiver RF Section	3549A00261	11/16/04	11/16/05	X
HP 85460A RF Filter Section	3448A00265	11/16/04	11/16/05	X
Tile Software	Rev. 3.0 G	N/A	N/A	X
R & S FSP40 Spectrum Analyzer	100027	2/21/05	2/21/06	X

Antennas

DESCRIPTION	SERIAL NO.	LAST CAL DATE	CAL DUE	TICK IF USED
Electro-metrics LPA-25 Log Periodic	1077	08/27/04	08/27/05	
Comp Power Biconical Antenna AB 900	15299	03/22/05	03/22/06	X
Com-Power AL-100 Logperiodic Antenna	16055	05/02/05	05/02/06	X
ETS Lindgren 3115 Horn Antenna	00031626	03/09/05	03/09/06	X
Chase Bilog Antenna CBL6112	2040	11/23/04	11/23/05	

Artificial Mains Networks/Absorbing Clamps

DESCRIPTION	SERIAL NO.	LAST CAL DATE	CAL DUE	TICK IF USED
EMCO 3816/2NM 16A LISN	1039	08/20/04	08/20/05	
FCC LISN 50 Amp 5 μH	9827	02/07/05	02/07/06	