FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210
CERTIFICATION TEST REPORT

FOR

MOBILE INTERNET LOCATION MGR

MODEL NUMBER: iLM3160-W / iLM3161-W / iL3164-W

FCC ID: PDC-ILM316X
IC: 5079A-IWM314XS

REPORT NUMBER: 08U11688-2
ISSUE DATE: APRIL 21, 2008

Prepared for

AT ROAD, INC.
47071 BAYSIDE PKWY
FREMONT, CA 94538, USA

Prepared by

COMPLIANCE CERTIFICATION SERVICES
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	04/21/08	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: AT ROAD, INC.
47071 BAYSIDE PKWY
FREMONT, CA. 94538, USA

EUT DESCRIPTION: MOBILE INTERNET LOCATION MGR

MODEL: ILM3160-W / ILM3161-W / IL3164-W

SERIAL NUMBER: 0503310396

DATE TESTED: MAY 15 - 16, 2005 & APRIL 18, 2008

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	Pass
RSS-210 Issue 7 Annex 8 and RSS-GEN Issue 2	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All expressions of Pass/Fail in this report are opinions expressed by CCS based on interpretations of the test results. 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 CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS 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:

THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Tested By:

YOBI ZHOU
EMC ENGINEER
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, FCC CFR 47 Part 15, RSS-GEN Issue 2, and RSS-210 Issue 7.

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 iLM3160-W / iLM3161-W / iL3164-W Internet Location Manager combines GPS with an EVDO wireless data modem to provide Mobile Resource Management information. The iLM3160-W / iLM3161-W / iL3164-W uses a CDMA 1xEV-DO Wireless Module that supports 3G Digital Cellular Standard and CDMA 1xRTT as well. iLM3160-W / iLM3161-W / iL3164-W also provides 802.11b connectivity between the field tech vehicle and any other 802.11b/g enabled peripheral (2.4GHz Direct Spread Spectrum 802.11b Access Point mode interoperable with WiFi/WECA clients).

The Cellular / PCS radio module is manufactured by Sierra Wireless MC5725 and WLAN radio module is manufactured by Z-Com Inc.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b	18.15	65.31

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a dipole antenna with a maximum gain of 1.7 dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT is running with Hyper Terminal program from the host support equipment.

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at 2462 MHz.

The worst-case data rate for this channel is determined to be 11 Mb/s, based on previous experience with 802.11b WLAN product design architectures.

Thus all emissions tests were made in the 802.11b mode, 2462 MHz, 11 Mb/s.

5.6. MODIFICATIONS

Adding a round cable snap-its ferrite (Manufacturer: Fair-Rite Products Corp., Part #: 0444173551) to the DC power wires with two turns.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
LAPTOP	HP	ZE44200	CN25110353	DOC
AC/DC ADAPTER	HP	PA2450U	N/A	N/A
DC POWER SUPPLY	KRM	AEEC-350	N/A	N/A

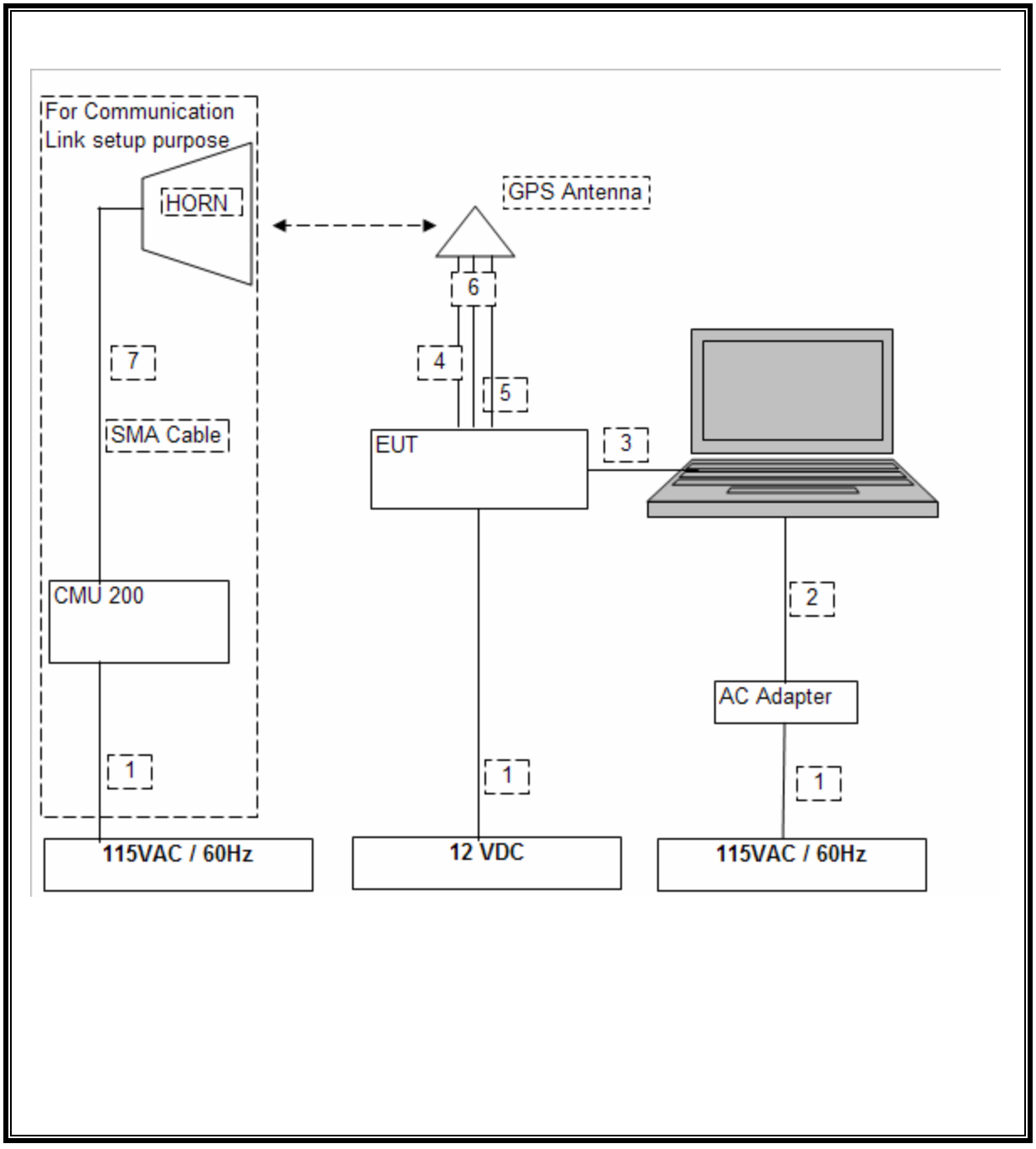
I/O CABLES

I/O CABLE LIST						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length**	**Remarks**
1	AC	3	US 115V	Un-shielded	1.5m	No
2	DC	1	DC	Un-shielded	1.5m	No
3	Serial	1	DB9	Shielded	1m	Yes
4	GPS	1	SMA	Shielded	5m	Yes
5	WLAN	1	SMA	Shielded	5m	Yes
6	GPS	1	TNC	Shielded	5m	Yes
7	SMA	1	SMA	Shielded	.5m	No

TEST SETUP

The EUT is a stand-alone unit. Test software from the laptop exercises the EUT via serial cable.

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**
Communication Tester	R & S	CMU 200	838114/032	12/26/2008
Peak Power Meter	Agilent	E4416A	GB41291160	12/4/2009
Peak / Average Power Sensor	Agilent	E9327A	US40440755	12/7/2009
Spectrum Analyzer	Agilent	E4446A	MY43360112	3/3/2009
Antenna, Log Periodic 200 ~ 1000 MHz	EMCO	3146	9107-3163	5/15/2008
Antenna, Biconical	Eaton	94455-1	1214	12/19/2008
SA Display Section 2	HP	85662A	2816A16696	5/24/2009
Quasi-Peak Adaptor	HP	85650A	2811A01155	5/24/2009
SA RF Section, 1.5 GHz	HP	85680B	2814A04227	9/27/08

7. ANTENNA PORT TEST RESULTS

7.1. 802.11b MODE IN THE 2.4 GHz BAND

7.1.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

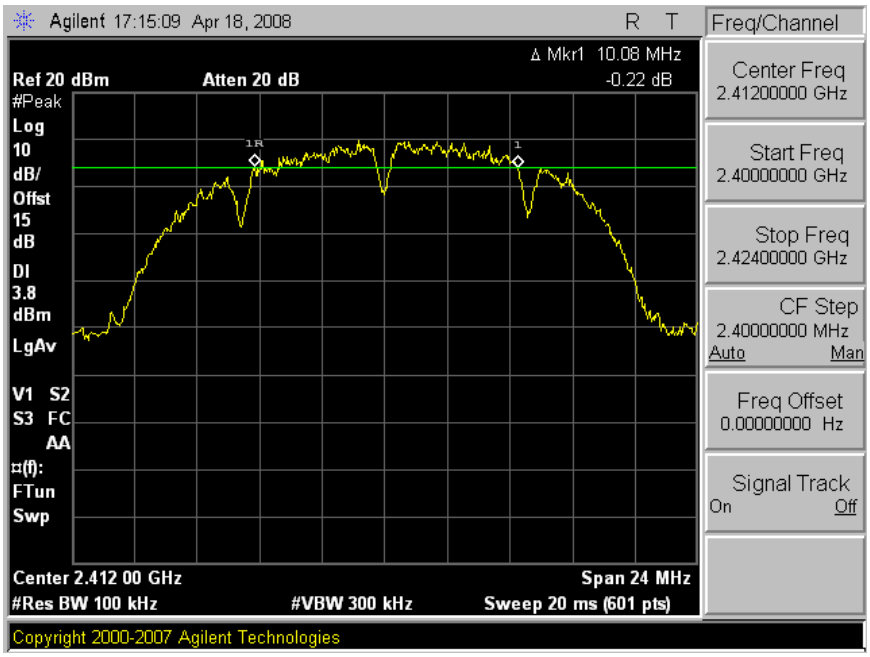
The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

RESULTS

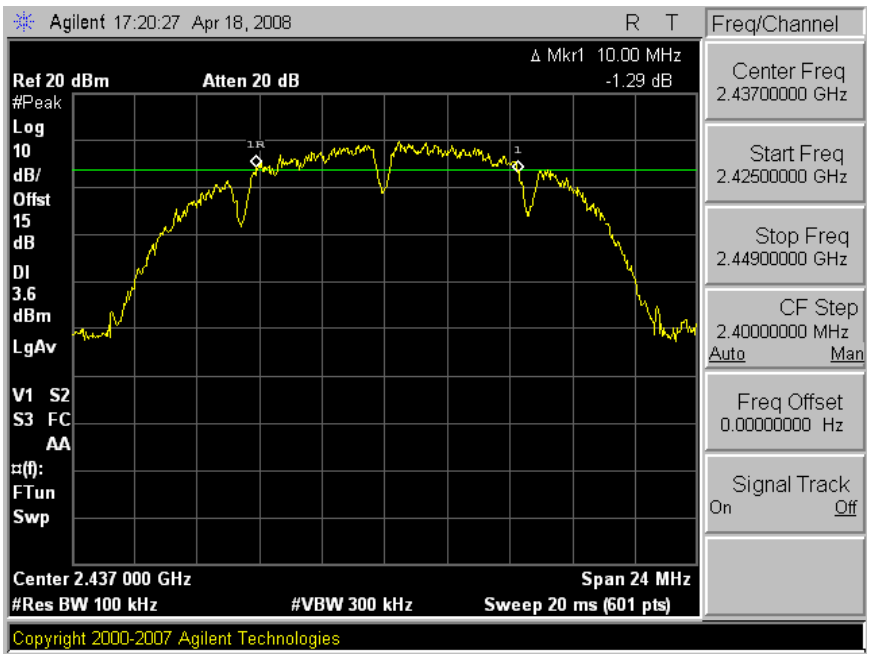
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	10.08	0.5
Middle	2437	10.00	0.5
High	2462	9.88	0.5

6 dB BANDWIDTH

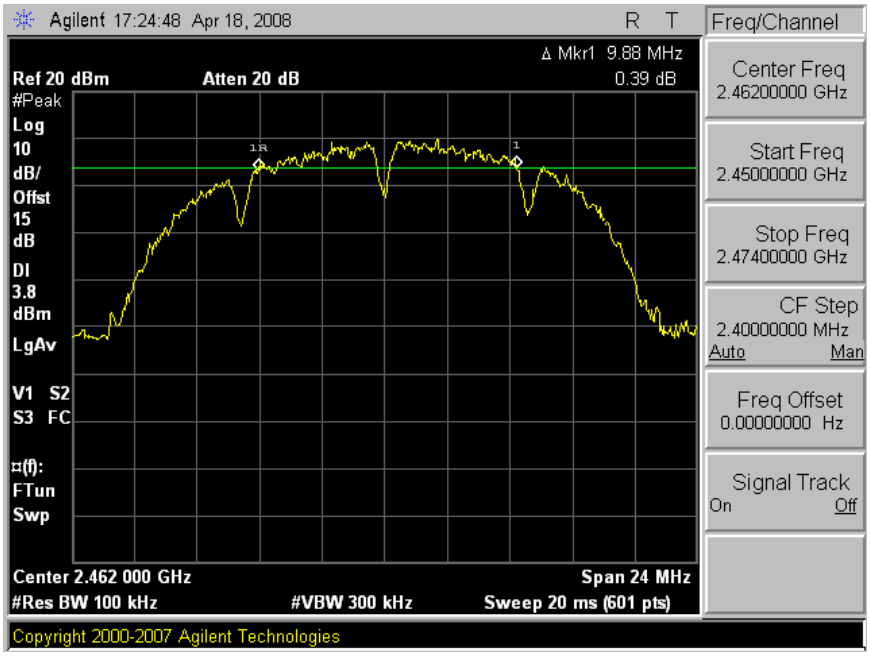
6 dB BANDWIDTH LOW CH



6 dB BANDWIDTH MID CH



6 dB BANDWIDTH HIGH CH



7.1.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

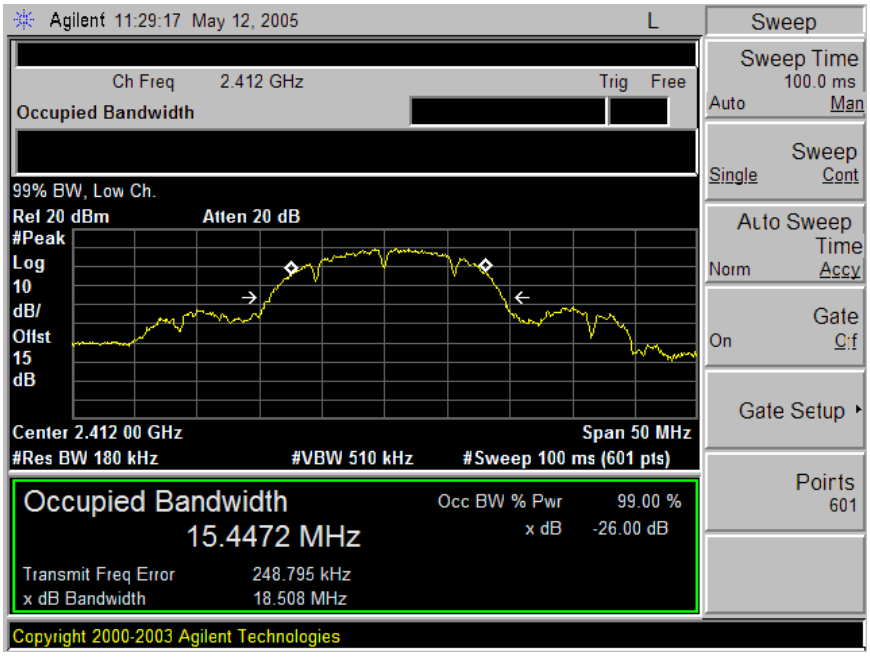
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

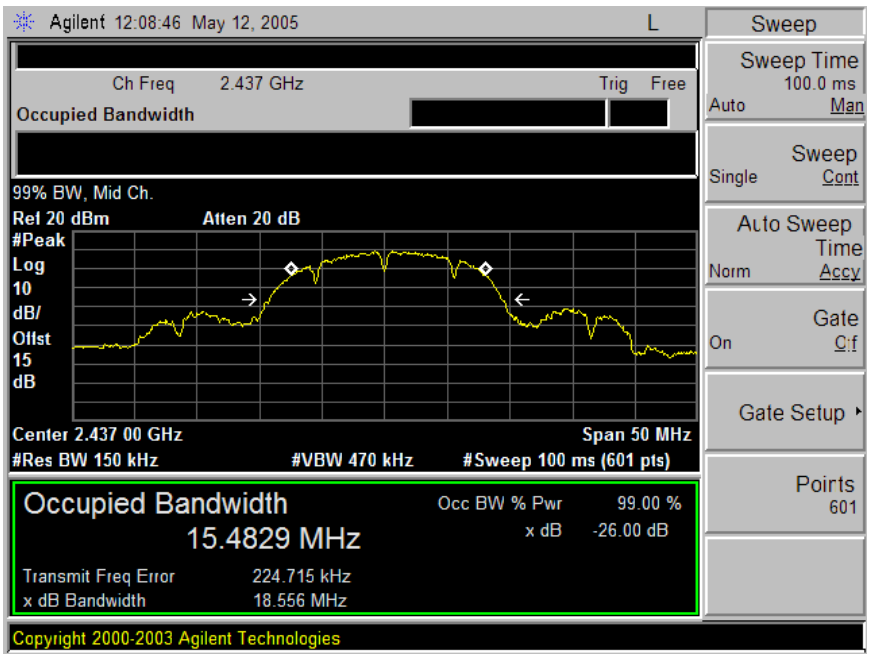
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	15.4472
Middle	2437	15.4829
High	2462	15.4737

99% BANDWIDTH

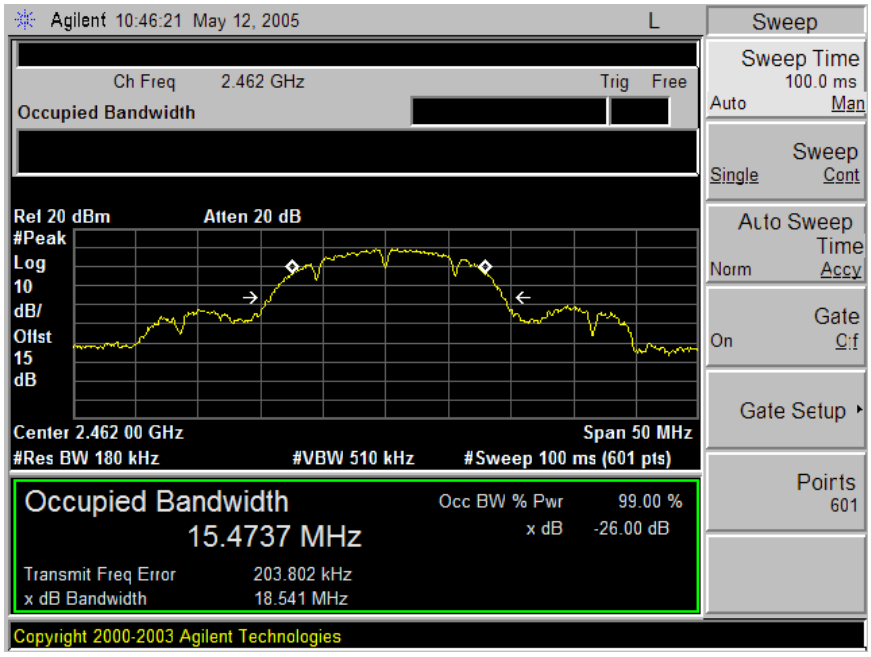
99% BANDWIDTH LOW CH



99% BANDWIDTH MID CH



99% BANDWIDTH HIGH CH



7.1.3. OUTPUT POWER

LIMITS

FCC §15.247 (b)

IC RSS-210 A8.4

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

The maximum antenna gain is 1.7 dBi for other than fixed, point-to-point operations, therefore the limit is 30 dBm.

TEST PROCEDURE

Peak power is measured using the spectrum analyzer's internal channel power integration function. Power is integrated over a bandwidth greater than or equal to the 99% bandwidth.

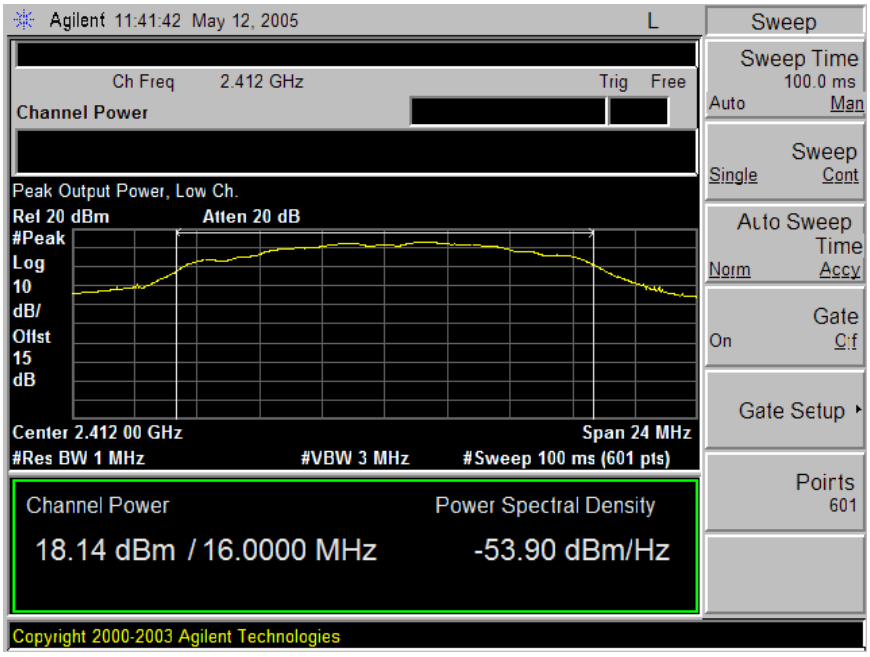
Maximum Conducted Output Power based on RMS averaging over a time interval is measured in accordance with FCC document "Measurement of Digital Transmission Systems Operating under Section 15.247", March 23, 2005. The transmitter operates continuously therefore Power Output Option 2, Method # 1 is used.

RESULTS

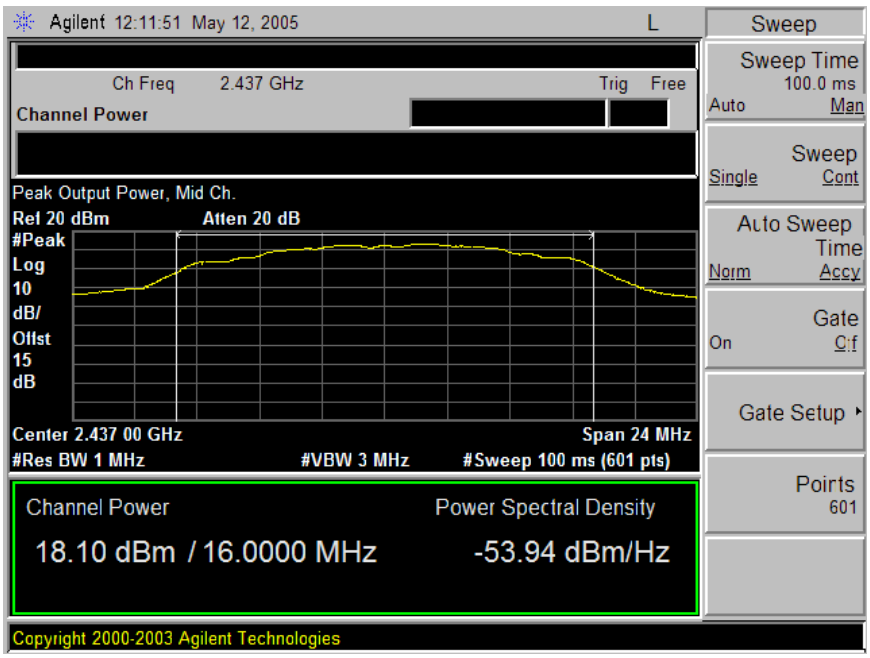
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	2412	18.14	30	-11.86
Middle	2437	18.10	30	-11.90
High	2462	18.15	30	-11.85

OUTPUT POWER

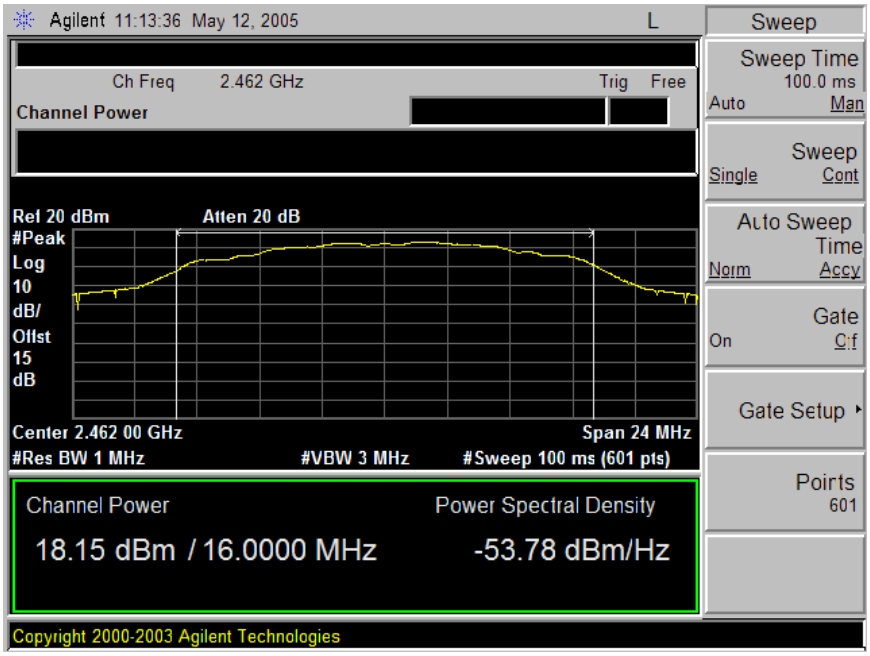
OUTPUT POWER LOW CH



OUTPUT POWER MID CH



OUTPUT POWER HIGH CH



7.1.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

The cable assembly insertion loss of 15 dB (including 10 dB pad and 5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	Power (dBm)
Low	2412	13.27
Middle	2437	13.85
High	2462	13.22

7.1.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

IC RSS-210 A8.2 (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST PROCEDURE

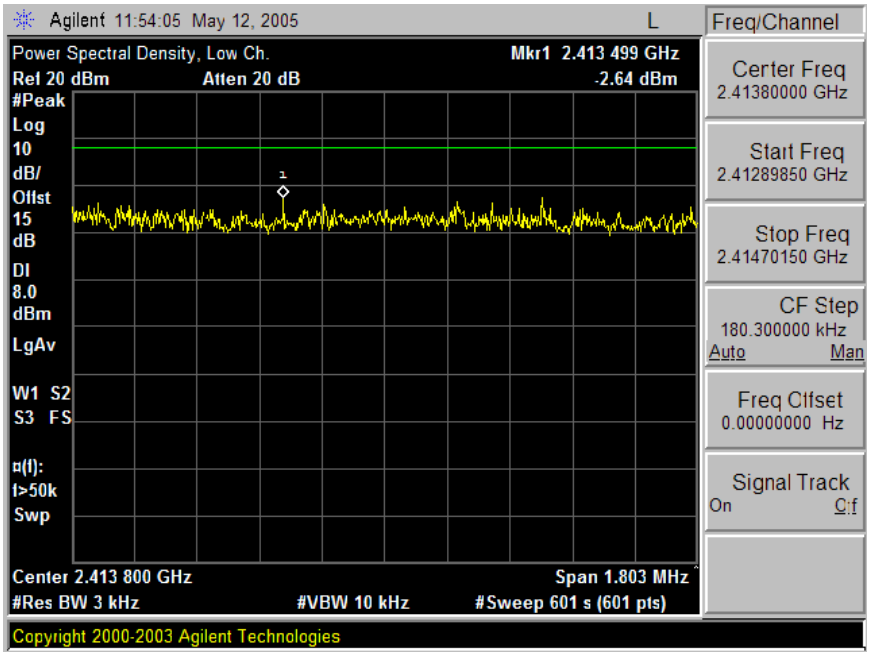
Output power was measured based on the use of a peak measurement, therefore the power spectral density was measured using PSD Option 1 in accordance with FCC document "Measurement of Digital Transmission Systems Operating under Section 15.247", March 23, 2005.

RESULTS

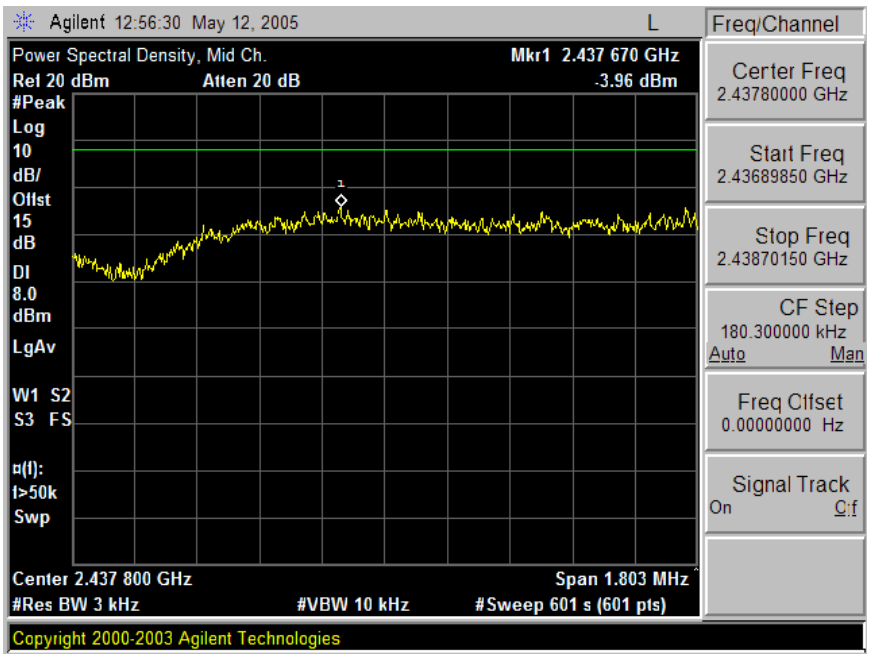
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-2.64	8	-10.64
Middle	2437	-3.96	8	-11.96
High	2462	-4.50	8	-12.50

POWER SPECTRAL DENSITY

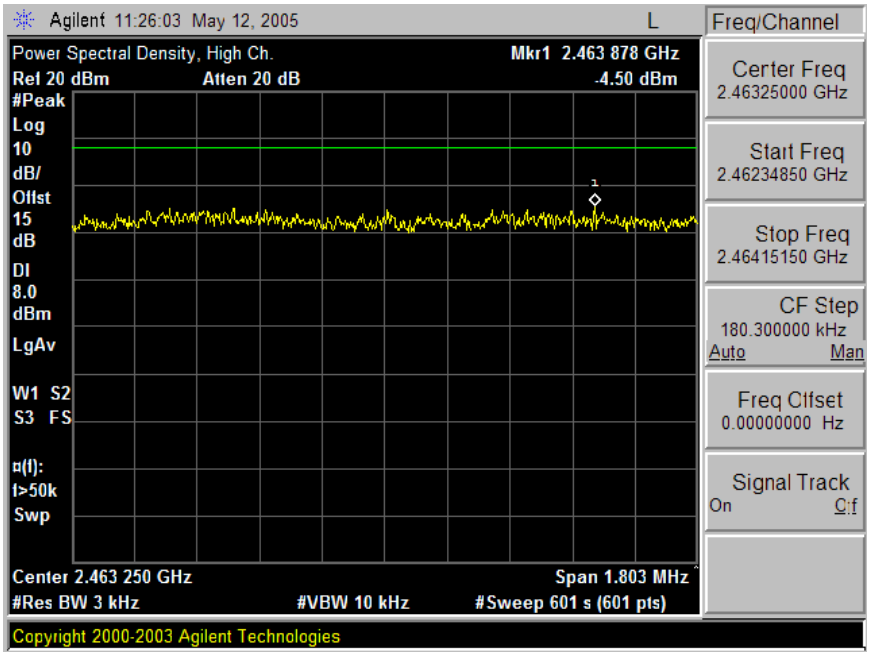
PSD LOW CH



PSD MID CH



PSD HIGH CH



7.1.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

TEST PROCEDURE

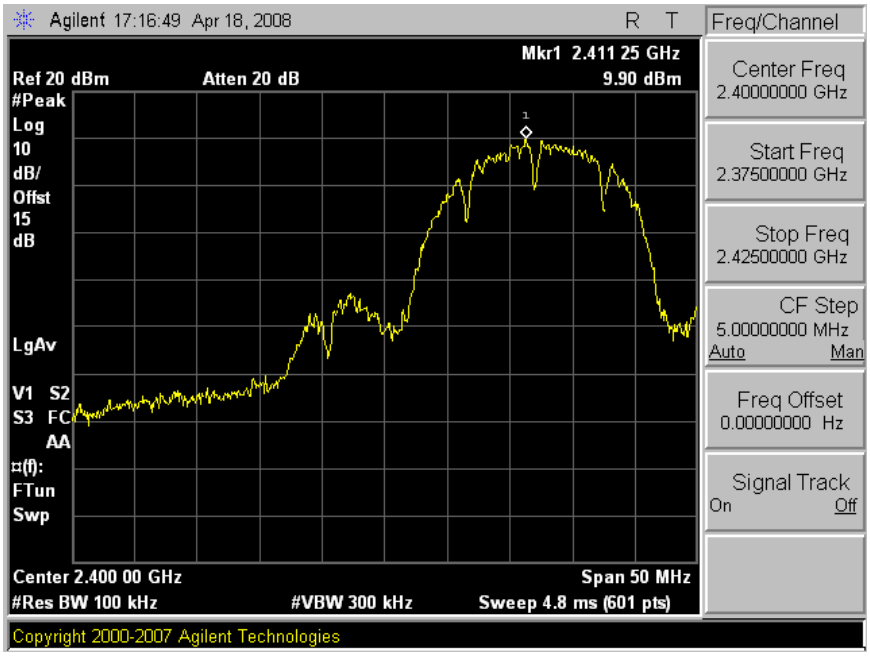
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

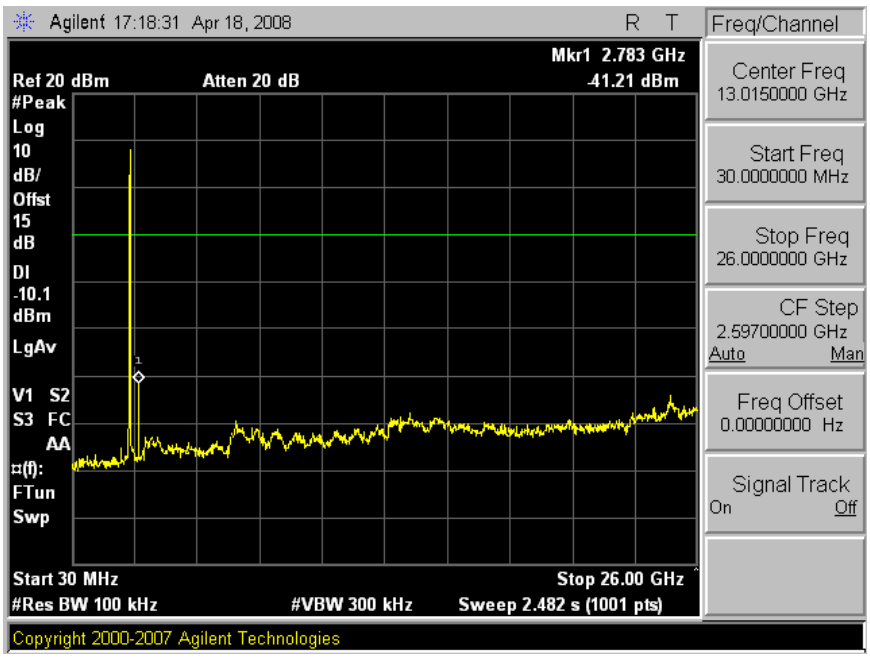
RESULTS

SPURIOUS EMISSIONS, LOW CHANNEL

LOW CH BANDEDGE

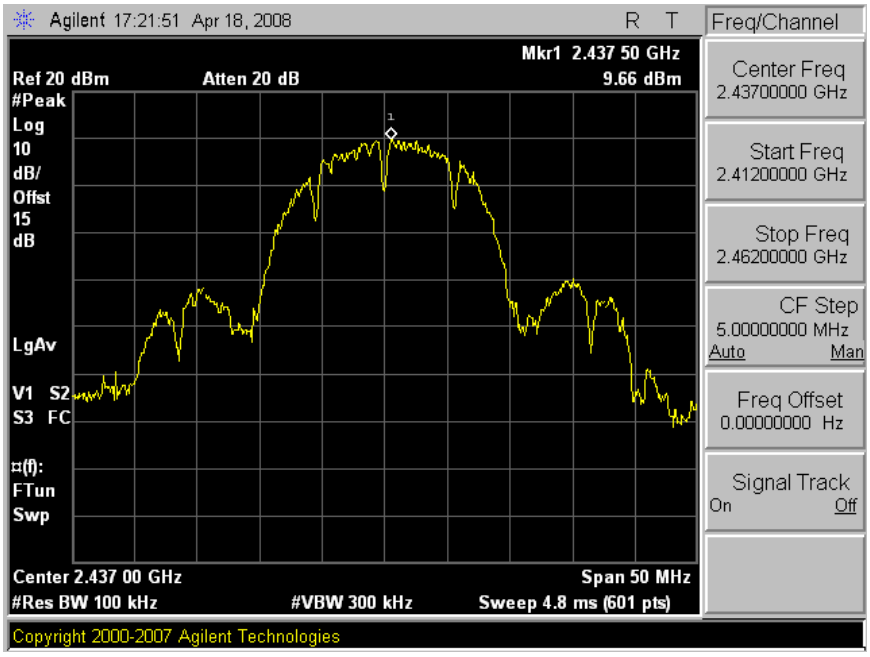


LOW CH SPURIOUS

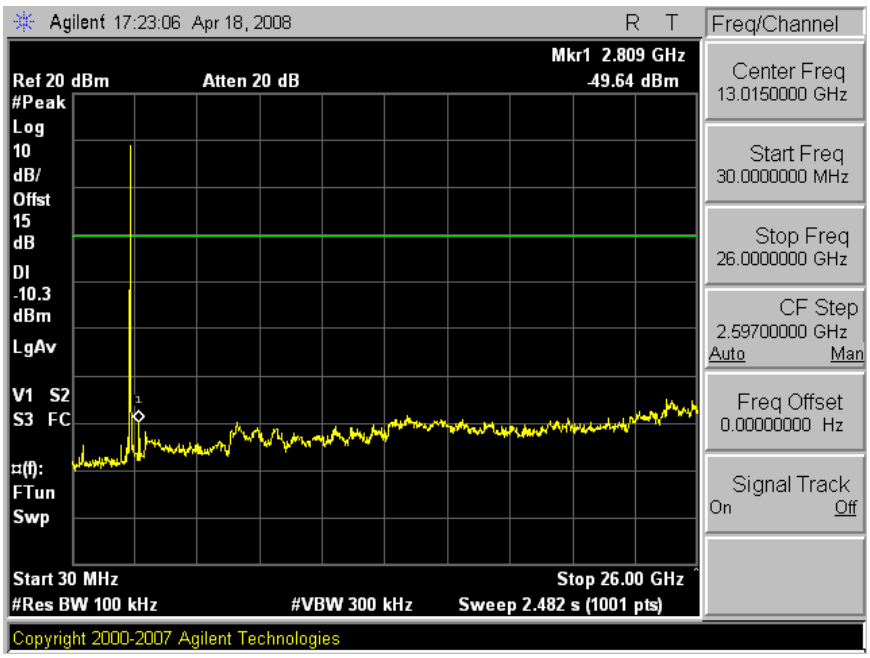


SPURIOUS EMISSIONS, MID CHANNEL

MID CH REFERENCE

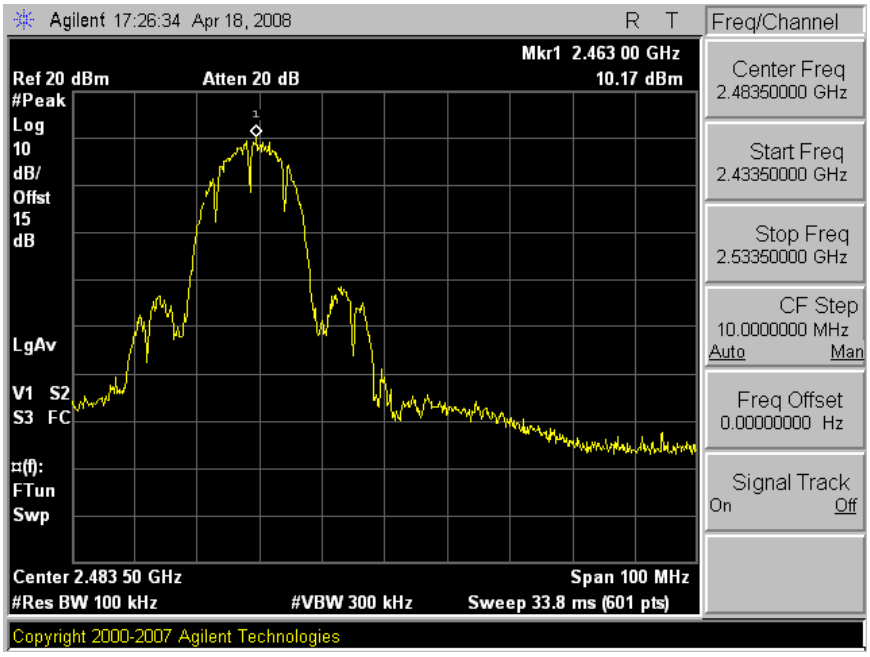


MID CH SPURIOUS

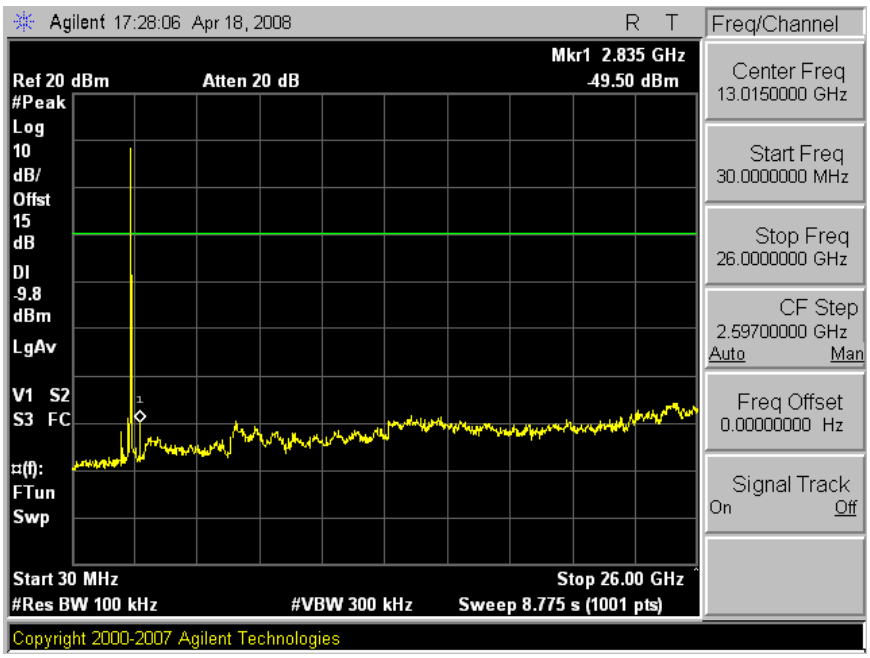


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CH BANDEDGE



HIGH CH SPURIOUS



8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz 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 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

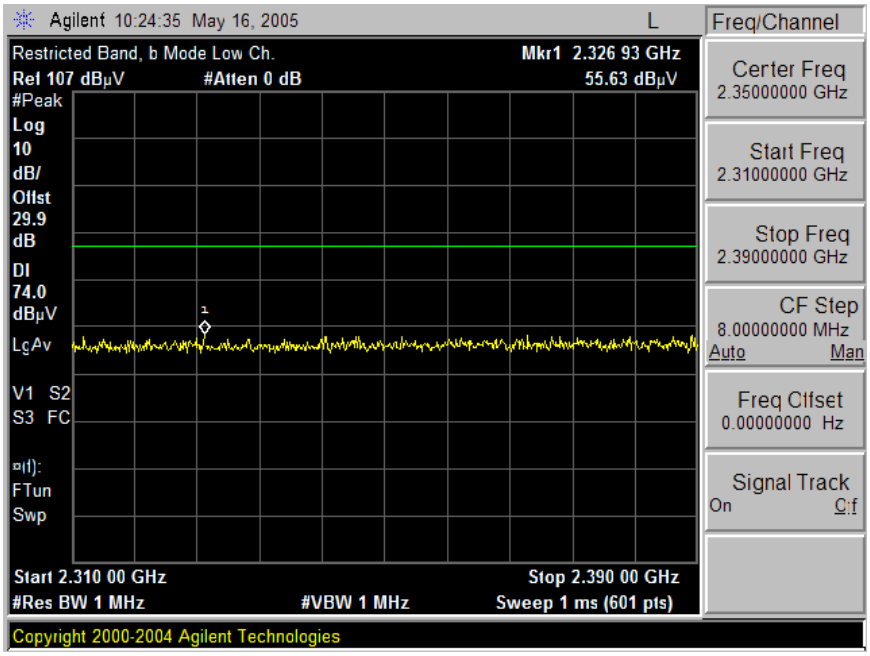
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

8.2. TRANSMITTER ABOVE 1 GHz

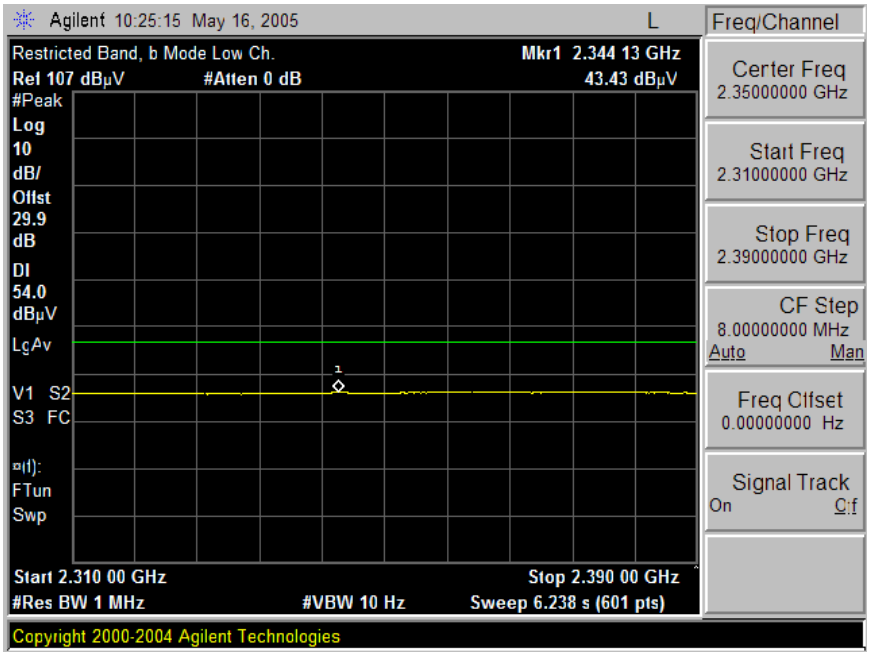
8.2.1. TRANSMITTER ABOVE 1 GHz FOR 802.11b MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

LOW CHANNEL RESTRICTED, PEAK, HORIZ

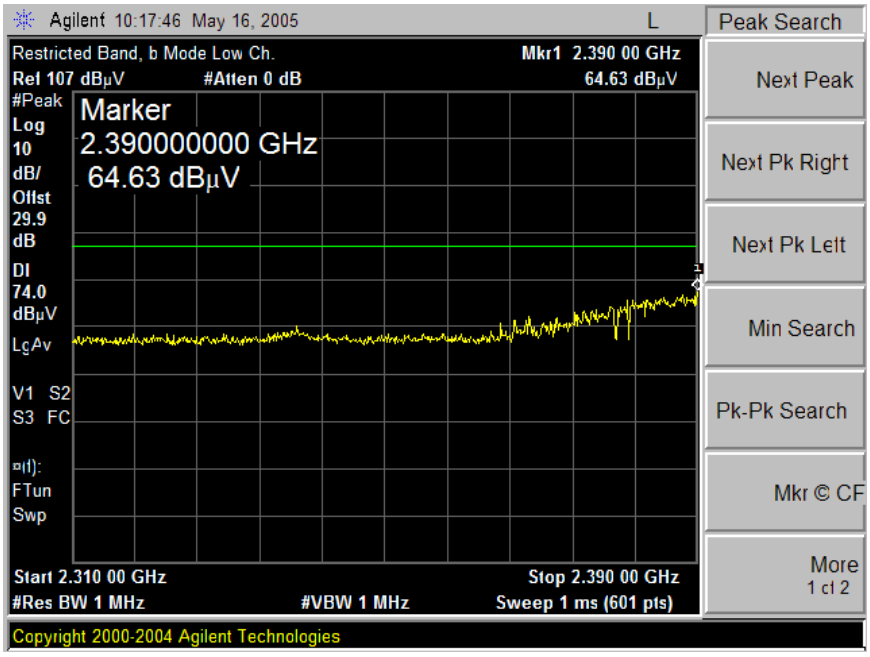


LOW CHANNEL RESTRICTED, AVG, HORIZ

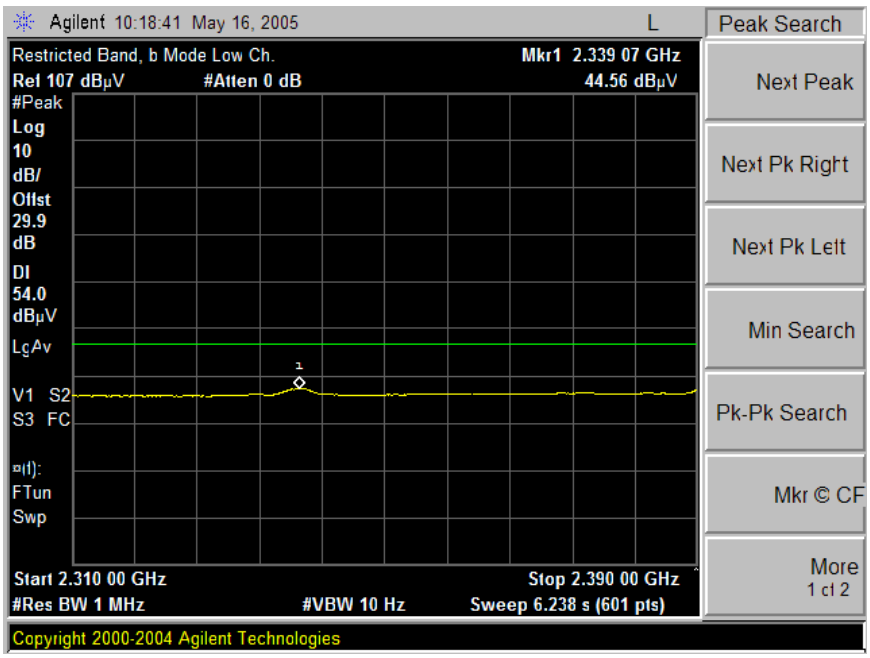


RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

LOW CHANNEL RESTRICTED, PEAK, VERT

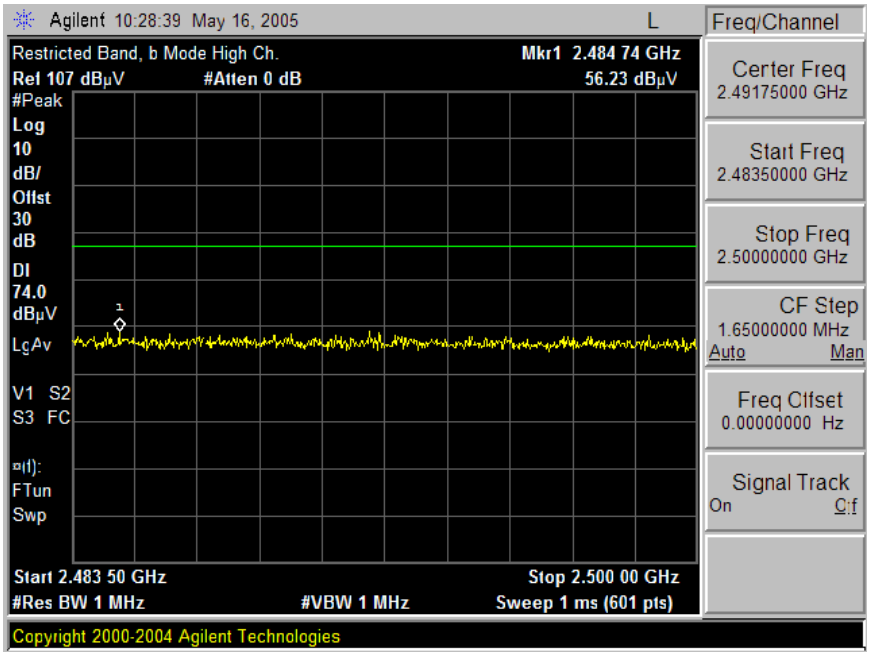


LOW CHANNEL RESTRICTED, AVG, VERT

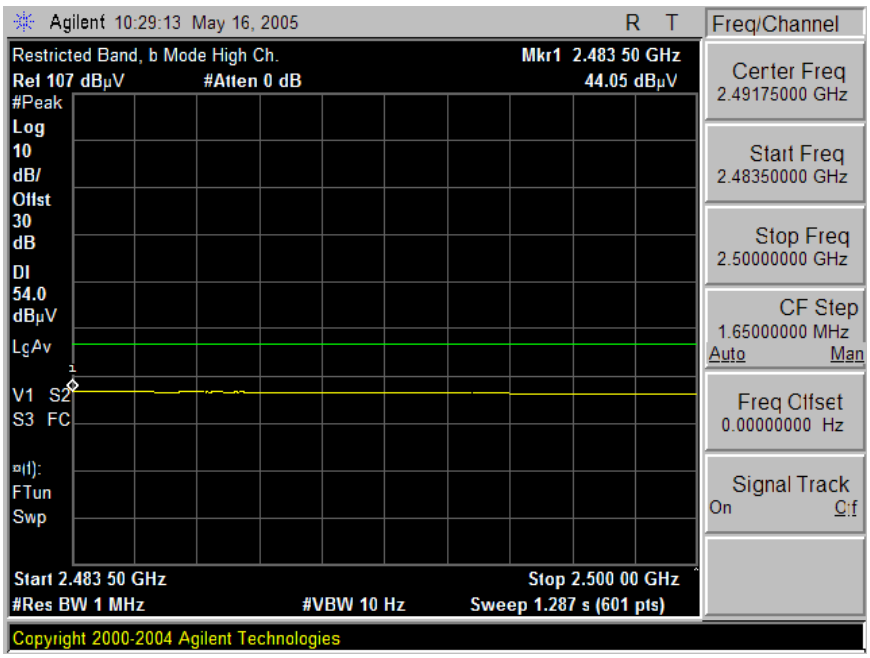


RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

HIGH CHANNEL RESTRICTED, PEAK, HORIZ

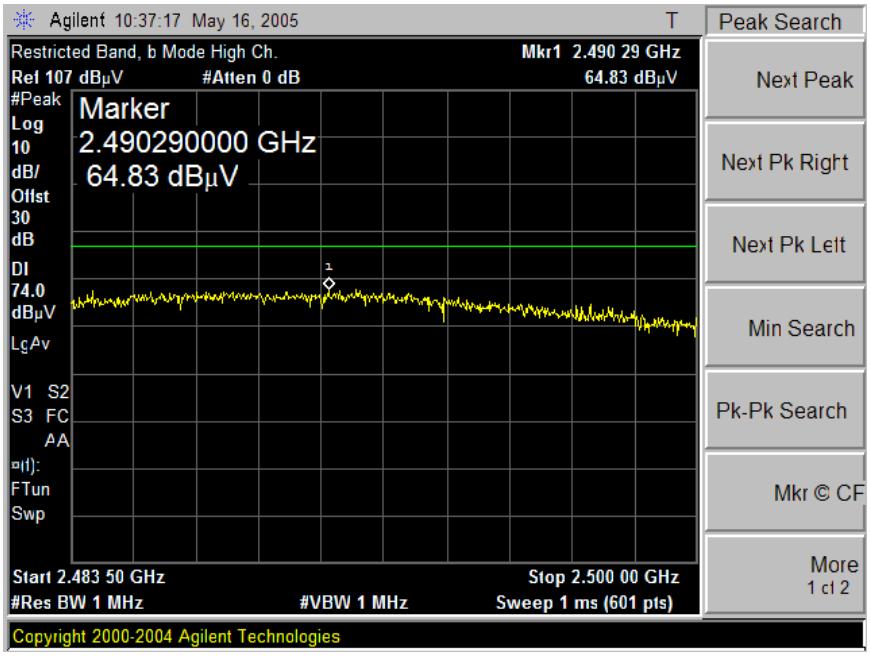


HIGH CHANNEL RESTRICTED, AVG, HORIZ

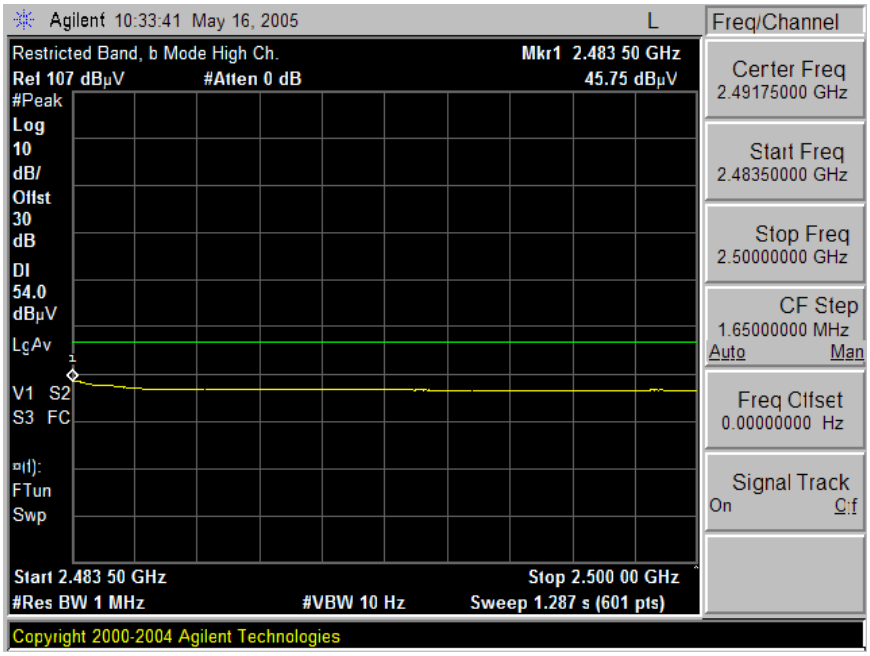


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

HIGH CHANNEL RESTRICTED, PEAK, VERT



HIGH CHANNEL RESTRICTED, AVG, VERT



HARMONICS AND SPURIOUS EMISSIONS

05/16/05 **High Frequency Measurement**

Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: VIEN TRAN
Project #: 05U3362-1
Company: @ ROAD
EUT Descrip.: MOBILE INTERNET LOCATION MGR WITH GPS, 3G CELL, CDMA
EUT M/N: IWM3140 MOBILE HOT SPOT
Test Target: FCC 15.247
Mode Oper: TX WLAN LOW, MID, HI CHANNELS _ HARMONIC SPUR

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T60; S/N: 2238 @3m	T34 HP 8449B			FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	4 foot cable	12 foot cable	HPF	Reject Filter
		4_Vien	12_Vien	HPF_4.0GHz	R_001

Peak Measurements
RBW=VBW=1MHz

Average Measurements
RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CH															
4.824	3.0	42.5	31.0	33.6	3.4	-33.6	0.0	0.6	46.6	35.1	74	54	-27.4	-18.9	V
7.236	3.0	43.8	32.3	36.1	3.9	-33.3	0.0	0.6	51.1	39.7	74	54	-22.9	-14.3	V, NOISE FLOOR
4.824	3.0	43.5	32.2	33.6	3.4	-33.6	0.0	0.6	47.6	36.3	74	54	-26.4	-17.7	H
7.236	3.0	44.0	32.0	36.1	3.9	-33.3	0.0	0.6	51.4	39.4	74	54	-22.6	-14.6	H, NOISE FLOOR
MID CH															
4.874	3.0	43.7	31.1	33.7	3.4	-33.5	0.0	0.6	47.9	35.3	74	54	-26.1	-18.7	V
7.311	3.0	42.8	31.0	36.2	3.9	-33.3	0.0	0.6	50.2	38.4	74	54	-23.8	-15.6	V, NOISE FLOOR
4.874	3.0	43.7	31.0	33.7	3.4	-33.5	0.0	0.6	47.9	35.2	74	54	-26.1	-18.8	V
7.311	3.0	43.8	31.6	36.2	3.9	-33.3	0.0	0.6	51.2	39.0	74	54	-22.8	-15.0	H, NOISE FLOOR
HI CH															
4.924	3.0	43.7	31.3	33.7	3.5	-33.5	0.0	0.6	48.0	35.6	74	54	-26.0	-18.4	V
7.386	3.0	43.9	31.9	36.2	3.9	-33.3	0.0	0.6	51.4	39.4	74	54	-22.6	-14.6	V, NOISE FLOOR
4.924	3.0	43.7	30.9	33.7	3.5	-33.5	0.0	0.6	48.0	35.2	74	54	-26.0	-18.8	V
7.386	3.0	44.6	31.7	36.2	3.9	-33.3	0.0	0.6	52.1	39.2	74	54	-21.9	-14.8	H, NOISE FLOOR
NO OTHER EMISSIONS WERE DETECTED ABOVE NOISE FLOOR AFTER 3RD HARMONIC.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

8.3. RECEIVER ABOVE 1 GHz

8.3.1. RECEIVER ABOVE 1 GHz FOR 20 MHz BANDWIDTH IN THE 2.4 GHz BAND

05/16/05 **High Frequency Measurement**
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: VIEN TRAN
Project #: 05U3362-1
Company: @ ROAD
EUT Descrip.: MOBILE INTERNET LOCATION MGR WITH GPS, 3G CELL, CDMA
EUT M/N: IWM3140 MOBILE HOT SPOT
Test Target: FCC 15.247
Mode Oper: RX WLAN LOW, MID, HI CHANNELS

Test Equipment:

EMCO Horn 1-18GHz: T60; S/N: 2238 @3m
Pre-amplifer 1-26GHz: T34 HP 8449B
Pre-amplifer 26-40GHz:
Horn > 18GHz:

Hi Frequency Cables
2 foot cable:
3 foot cable:
4 foot cable: 4_Vien
12 foot cable: 12_Vien

HPF:
Reject Filter:

Peak Measurements
RBW=VBW=1MHz

Average Measurements
RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
NO EMISSIONS WERE DETECTED ABOVE NOISE FLOOR.															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

8.4. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT

COMPLIANCE Certification Services
FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP
561F MONTEREY ROAD, SAN JOSE, CA 95037-9001
PHONE: (408) 463-0885 FAX: (408) 463-0888

Project #:	05U3362-1
Report #:	05U3362-1
Date& Time:	05/16/05 5:16 PM
Test Engr:	VIEN TRAN
Company:	@ ROAD
EUT Description:	MOBILE INTERNET LOCATION MGR
Test Configuration :	EUT & GPS ANTENNA
Type of Test:	FCC CLASS B
Mode of Operation:	TX

(•) A-Site ( ) B-Site ( ) C-Site ( ) F-Site [6 Worst Data] [Descending]

Freq. (MHz)	Reading (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)	Mark (P/Q/A)
200.10	58.50	12.03	1.88	27.20	45.21	43.50	1.71	3mH	0.00	1.00	P
200.10	56.50	12.03	1.88	27.20	43.21	43.50	-0.29	3mH	0.00	1.00	Q
400.00	51.80	15.92	2.83	27.48	43.07	46.00	-2.93	3mH	0.00	1.00	P
600.00	48.00	19.36	3.63	28.38	42.61	46.00	-3.39	3mH	0.00	1.00	P
800.00	45.50	21.70	4.27	27.84	43.63	46.00	-2.37	3mH	0.00	1.00	P
200.10	56.30	12.03	1.88	27.20	43.01	43.50	-0.49	3mV	0.00	1.00	P
200.10	54.20	12.03	1.88	27.20	40.91	43.50	-2.59	3mV	0.00	1.00	Q

Total # of Data: 7

RECEIVING MODE:

SPURIOUS EMISSIONS ABOVE 1GHz (WORST-CASE CONFIGURATION)

05/16/05 **30 - 1000 MHz Frequency Measurement**
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: VIEN TRAN
Project #: 05U3362-1
Company: @ ROAD
EUT Descrip.: MOBILE INTERNET LOCATION MGR WITH GPS, 3G CELL, CDMA
EUT M/N: IWM3140 MOBILE HOT SPOT
Test Target: RSS 210
Mode Oper: RX SPUR

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn >18GHz	Limit
T60; S/N: 2238 @3m				RX RSS 210

Hi Frequency Cables

2 foot cable	3 foot cable	4 foot cable	12 foot cable	HPF	Reject Filter
		4_Vien	12 Vien		

Peak Measurements
RBW=VBW=1MHz

Average Measurements
RBW=1MHz ; VBW=10Hz

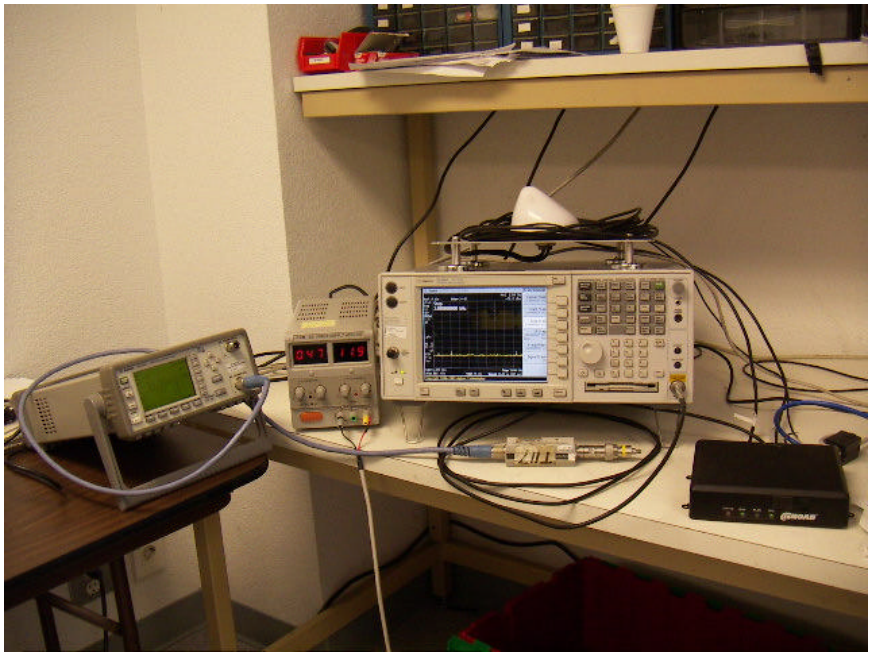
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
NO EMISSIONS WERE DETECTED ABOVE NOISE FLOOR IN RECEIVER MODE															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

9. SETUP PHOTOS

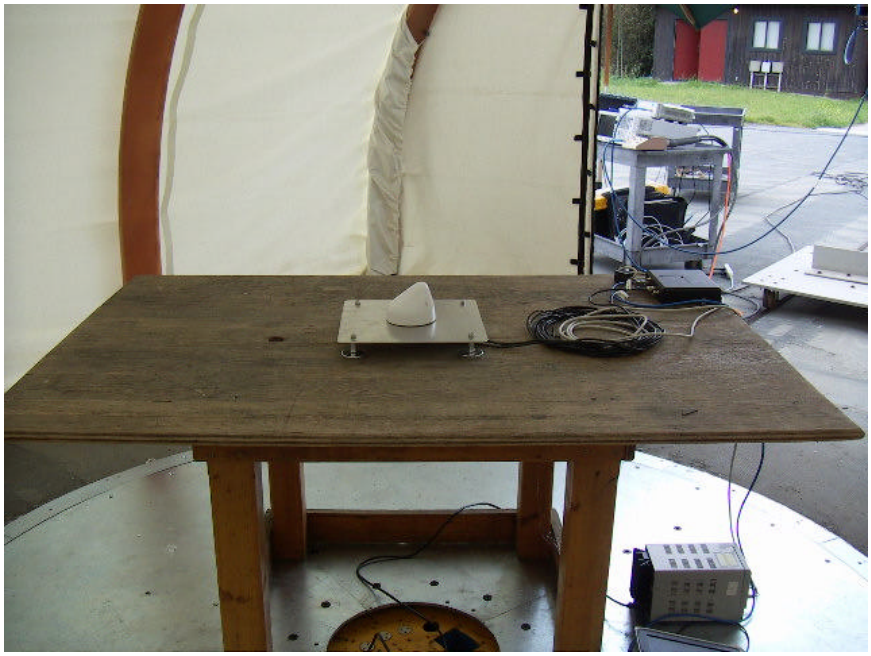
ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP

ANTENNA PORT CONDUCTED PHOTO

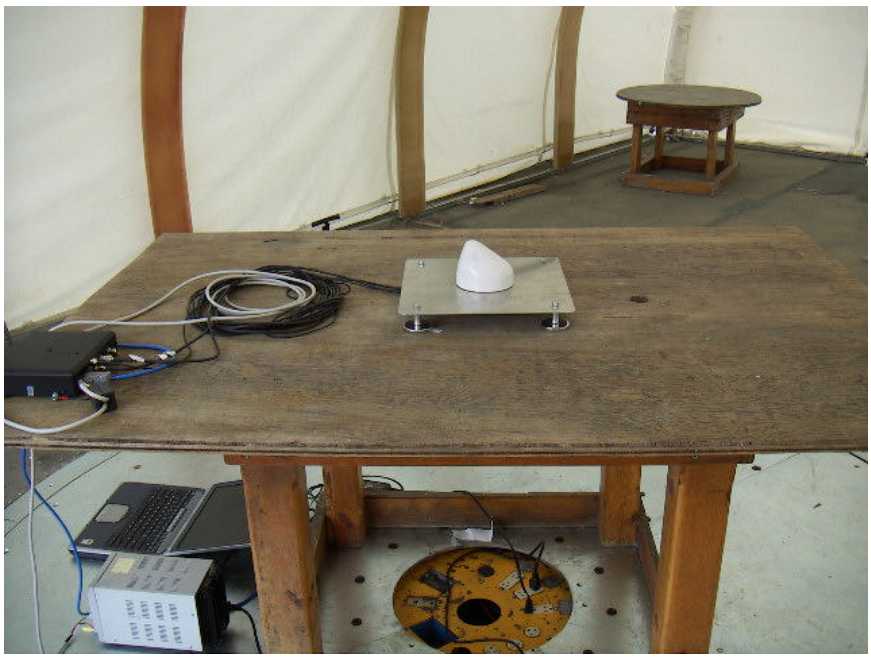


RADIATED RF MEASUREMENT SETUP

RADIATED FRONT PHOTO



RADIATED BACK PHOTO



END OF REPORT