Nemko USA, Inc.
11696 Sorrento Valley Rd., Suite F
San Diego, CA 92121-1024

TEST REPORT FOR CERTIFICATION

Test Report:	2005 050389-FCC
FCC ID:	
Equipment Under Test:	**CDMA 800 Cellular Phone**
Model:	**CV210-VTL201**
Applicant:	**VITELCOM MOBILE TECHNOLOGY U.S.A.** **2480 Irvine Boulevard #172** **Tustin, California 92782** **714.389.1169**
In Accordance With:	FCC Part 22, Subpart H
Tested By:	Nemko USA Inc. 11696 Sorrento Valley Road San Diego, CA 92121-1024
Date:	May 18, 2005
Total Number of Pages:	32

Table of Contents

Section 1. Summary of Test Results

General:

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22.

DOCUMENT HISTORY

REVISION	DATE	COMMENTS
-	May 18, 2005	Prepared By: A. Laudani
-	May 18, 2005	Initial Release: C. Fleury

NOTE: Nemko USA, Inc. hereby makes the following statements so as to conform to Chapter 10 (Test Reports) Requirements of ANSI C63.4 (1992) "Methods and Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz":

- The unit described in this report was received at Nemko USA, Inc.'s facilities on **May 11, 2005**. Testing was performed on the unit described in this report on **May 11, 2005 to** May 12, 2005 .
- Retest for Revision A occurred for conducted RF power and frequency stability May 3, 2005.
- The Test Results reported herein apply only to the Unit actually tested, and to substantially identical Units.
- This report does not imply the endorsement of the Federal Communications Commission (FCC), NVLAP or any other government agency.

CERTIFICATION

Nemko USA, Inc., an independent Electromagnetic Compatibility (EMC) Test Laboratory, produced this Test Report and performed the Radio Frequency Interference (RFI) testing and data evaluation contained herein.

Nemko USA, Inc.'s measurement facility is currently registered with the United States Federal Communications Commission (FCC) in accordance with the provisions of 47 United States Code (CFR) Part 2, Subpart I, Section 2.948(a). A current description of Nemko USA, Inc.'s measurement facility is on file with the FCC. Nemko USA Inc. has additionally satisfied the FCC that it complies with the requirements set forth in 47 CFR Part 2, Subpart I, Section 2.948(d) regarding the accreditation of EMC laboratories. As a result, the FCC has placed Nemko USA Inc. on its list of EMC laboratories approved to perform Declaration of Conformity (DOC) procedure testing.

The RFI testing, test data collection and test data evaluation were accomplished in accordance with the ANSI C63.4-1992 Standard, and in accordance with the applicable sections of the FCC rules (47 CFR Parts 2 and 18)." digital devices. The testing was also accomplished in accordance with Industry Canada's ICES-003 standard for unintentional radiating device per EMCAB-3, Issue 3 (May 1998). The administrative summary of this test report provides a description of the test sample

I hereby certify that the test data, test data evaluation, and equipment configurations used to compile this test report are a true and accurate representation of the test sample's radio frequency interference characteristics as of the test date(s), and, for the design of the test sample.

Chip Fleury

Chip Fleury, Frontline manager

Summary Of Test Data

Name Of Test	Para. No.	Result
RF Power Output	2.1046	Complies
Audio Frequency Response	2.1047	NA[1]
Audio Low Pass Filter Response	2.1047	NA[1]
Modulation Limiting	2.1047	NA[1]
Occupied Bandwidth (WB Data)	2.1049	Complies
Spurious Emissions at Antenna Terminals	2.1051	Complies
Field Strength of Spurious Emissions	2.1053	Complies
Frequency Stability	2.1055	Complies

Footnotes For N/A's: [1] Digital Modulation

Section 2. General Equipment Specification

Manufacturer:	**VITELCOM MOBILE TECHNOLOGY U.S.A.**
Model No.:	CV210-VTL201
Serial No.:	N/A
Antenna Model:	FR01-B1-CK-0-011
Date Received In Laboratory:	February 23, 2005
Nemko Identification No.:	25-389-VITR1
Frequency Ranges:	824.7 – 848.31 MHz
RF Output (Limit):	Part 22: 7 Watts
RF Output (Measured):	Part 22: 0.31 Watts
Emission Designators:	1M27F9W
FCC Identifier:	SELTSM201

Section 3. RF Power Output

Para. No.: 2.1046

Test Performed By: A. Laudani	**Date of Test:** 5-11-05

Minimum Standard: Para. 22.913(a). The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Radiated RF Power

Test Results: Complies, see tables below.

Measurement Data:

Modulation	Frequency (MHz)	Measured (dBm)	Substituted Result (dBm)	Substituted Result Watts
CDMA	824.70	23.7	23.5	0.22
	836.49	23.5	23.7	0.24
	848.31	25.0	25.1	0.32

NEMKO USA, Inc.

Substitution Method For Radiated

Job # : 25-083-VITR1 Test # : 2
Page 1 of 1

Client Name :	VITELCOM MOBILE TECHNOLOGY						
EUT Name	CDMA 800 Cellular						
EUT Model #	CV210-VTL201						
EUT Part # :							
EUT Serial # :	001						
EUT Config. :							
	CDMA TX						
Specification :	FCC Part 22				Reference :		
Rod. Ant. #:	NA	Temp. (deg. C) :	17		Date :	5/11/2005	
Bicon Ant.#:	NA	Humidity (%) :	55		Time :		
Log Ant.#:	112	EUT Voltage :	3.7		Staff :	A. Laudani	
DRG Ant. #	529	EUT Frequency :	dc		Photo ID:		
Dipole Ant.#:	NA	Phase:	na		Peak Bandwidth:	RBW-1MHz, VBW-1MHz	
Cable#:	60ft	Location:	RN#: 90579				
Preamp#:	842	Distance:	3m				
Spec An.#:	835						

target Frequency mHz	target level dBuV/m	Dipole Gain dBi	cable loss dB	Signal Generator dBm	Total (EIRP) dBm	Spec dBm	Margin dBm
824.70	95.39	0	4.94	28.41	23.5	38.5	-15.0
836.49	95.15	0	5.01	28.73	23.7	38.5	-14.8
848.37	96.69	0	5.11	30.17	25.1	38.5	-13.4

target Frequency mHz	target level dBuV/m	Horn Gain dBi	cable loss dB	Signal Generator dBm	Total (EIRP) dBm	Spec dBm	Margin dBm
1696.62	73.30	5.45	0.65	-38.30	-33.5	-13.0	-20.5
2474.10	65.21	6.85	1.6	-40.59	-35.3	-13.0	-22.3
2509.47	64.91	6.92	1.7	-40.29	-35.0	-13.0	-22.0
2544.93	62.37	6.98	1.7	-43.03	-37.7	-13.0	-24.7
3298.8	70.86	7.86	2.3	-37.27	-31.7	-13.0	-18.7

Radiated Emissions Data

Job # : 25-389-VIT Test # : 1
Page 1 of 1

Client Name :	VITELCOM MOBILE TECHNOLOGY U.S.A.				
EUT Name :	CDMA 800 Cellular Phone				
EUT Model # :	CV210-VTL201				
EUT Part # :					
EUT Serial # :	001				
EUT Config. :					
	CDMA TX				
Specification :	FCC Part 22			Reference :	
Rod. Ant. #:	NA	Temp. (deg. C) :	17	Date :	5/11/05
Bicon Ant.#:	NA	Humidity (%) :	55	Time :	9:30 AM
Log Ant.#:	112	EUT Voltage :	NA	Staff :	A. Laudani
DRG Ant. #	529	EUT Frequency :	NA	Photo ID:	
Dipole Ant.#:	NA	Phase:	NA	Peak Bandwidth:	1 MHz
Cable#:	40ft	Location:	RN#: 90579	Video Bandwidth	1 MHz
Preamp#:	842	Distance:	3m		
Spec An.#:	835				
QP #:	NA				
PreSelect#:	NA				

Meas. Freq. (MHz)	Vertical (dBuV) pk	Horizontal (dBuV) pk	CF (db)	Max Level (dBm) pk	Spec. Limit (ERP) (dBm) pk	Margin dB pk	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
824.7	**95.39**	85.58	25.6	23.7	33.0	-9.3	70	1.5	PASS	
1649.4	66.80	59.36	-3.5	-34.0	-13.0	-21.0		1.1	PASS	
2474.1	64.36	**65.21**	1.1	-31.0	-13.0	-18.0		1.0	PASS	
3298.8	63.3	**70.86**	-4.0	-30.4	-13.0	-17.4		1.0	PASS	
4123.5	49.82	49.07	-0.8	-48.2	-13.0	-35.2		1.0	PASS	
4948.2	50.76	49.66	-1.2	-47.7	-13.0	-34.7			PASS	NF
5772.9	49.03	48.64	2.5	-45.7	-13.0	-32.7			PASS	NF
6597.6	48.39	48.95	3.4	-44.9	-13.0	-31.9			PASS	NF
7422.3	48.34	47,37	5.8	-43.1	-13.0	-30.1			PASS	NF
8247	47.22	47.69	7.5	-42.1	-13.0	-29.1			PASS	NF
836.49	**95.15**	85.34	25.6	23.5	33.0	-9.5	70	1.2	PASS	
1672.98	64.78	58.12	-3.5	-36.0	-13.0	-23.0		1.1	PASS	
2509.47	60.31	**64.91**	2.0	-30.4	-13.0	-17.4		1.0	PASS	
3345.96	58.41	63.45	-4.0	-37.8	-13.0	-24.8		1.0	PASS	
4182.45	49.13	48.12	-0.8	-48.9	-13.0	-35.9		1.0	PASS	
5018.94	49.36	49.46	1.7	-46.1	-13.0	-33.1			PASS	NF
5855.43	48.94	47.47	2.5	-45.8	-13.0	-32.8			PASS	NF
6691.92	47.99	47.07	3.4	-45.9	-13.0	-32.9			PASS	NF
7528.41	47.1	47.92	7.0	-42.3	-13.0	-29.3			PASS	NF
8364.90	47.49	47.66	7.5	-42.1	-13.0	-29.1			PASS	NF
848.31	**96.69**	86.96	25.6	25.0	33.0	-8.0	70	1.4	PASS	
1696.62	**73.30**	61.51	-3.5	-27.5	-13.0	-14.5		1.1	PASS	
2544.93	**62.37**	56.71	2.0	-32.9	-13.0	-19.9		1.0	PASS	
3393.24	61.68	63.91	-4.0	-37.4	-13.0	-24.4		1.0	PASS	
4241.55	49.61	50.42	-0.8	-47.6	-13.0	-34.6		1.0	PASS	
5089.86	50.48	50.69	1.7	-44.9	-13.0	-31.9			PASS	NF
5938.17	48.30	47.40	2.5	-46.5	-13.0	-33.5			PASS	NF
6786.48	47.81	47.40	3.4	-46.1	-13.0	-33.1			PASS	NF
7634.79	47.05	47.15	7.0	-43.1	-13.0	-30.1			PASS	NF
8483.10	46.74	46.74	7.5	-43.0	-13.0	-30.0			PASS	NF

NF = Noise Floor measurement.

Conducted ERP

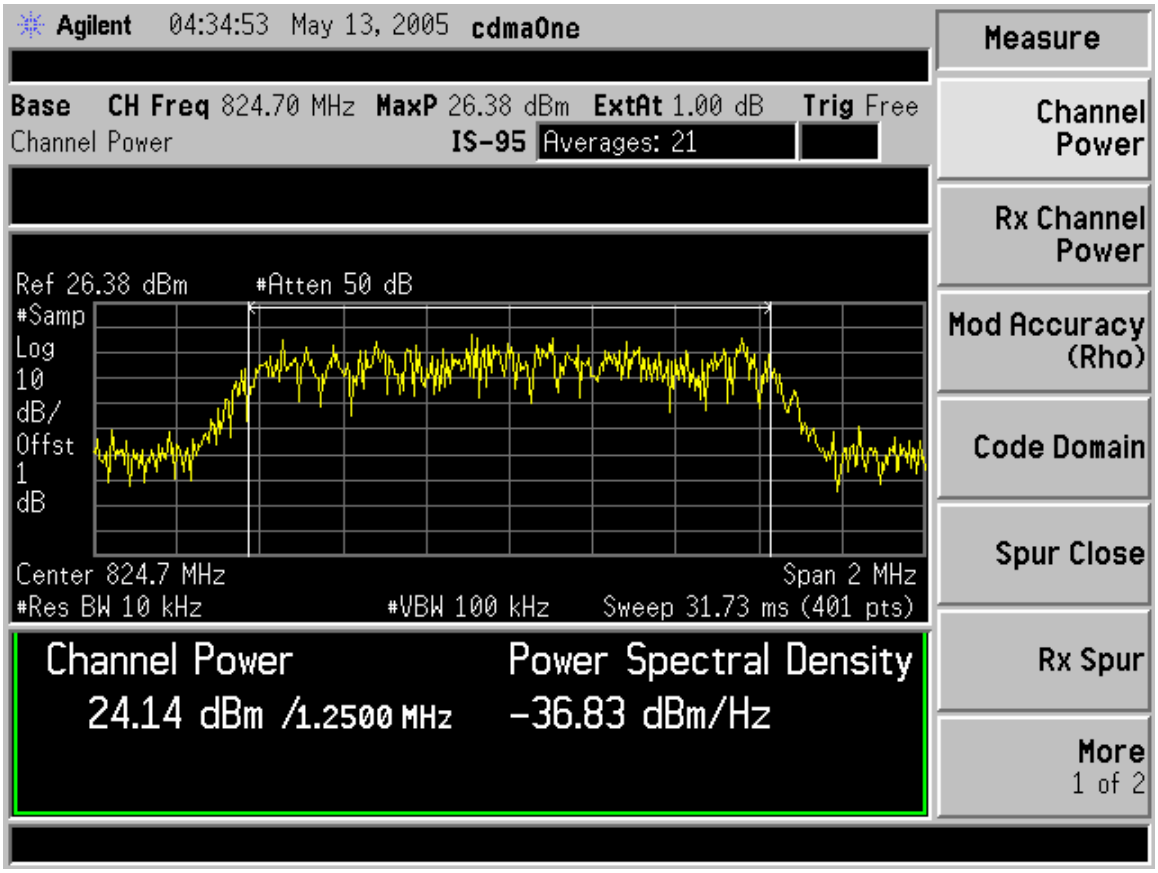
Test Performed By: Sean He, Skyworks	**Date of Test: 5**-12-05

Modulation	Frequency (MHz)	Measured (dBm)	Gain (dB)	ERP (dBm)	Result Watts
CDMA	824.70	26.38	-1.5	24.88	0.31
	836.52	26.38	-1.5	24.88	0.31
	848.30	26.38	-1.5	24.88	0.31

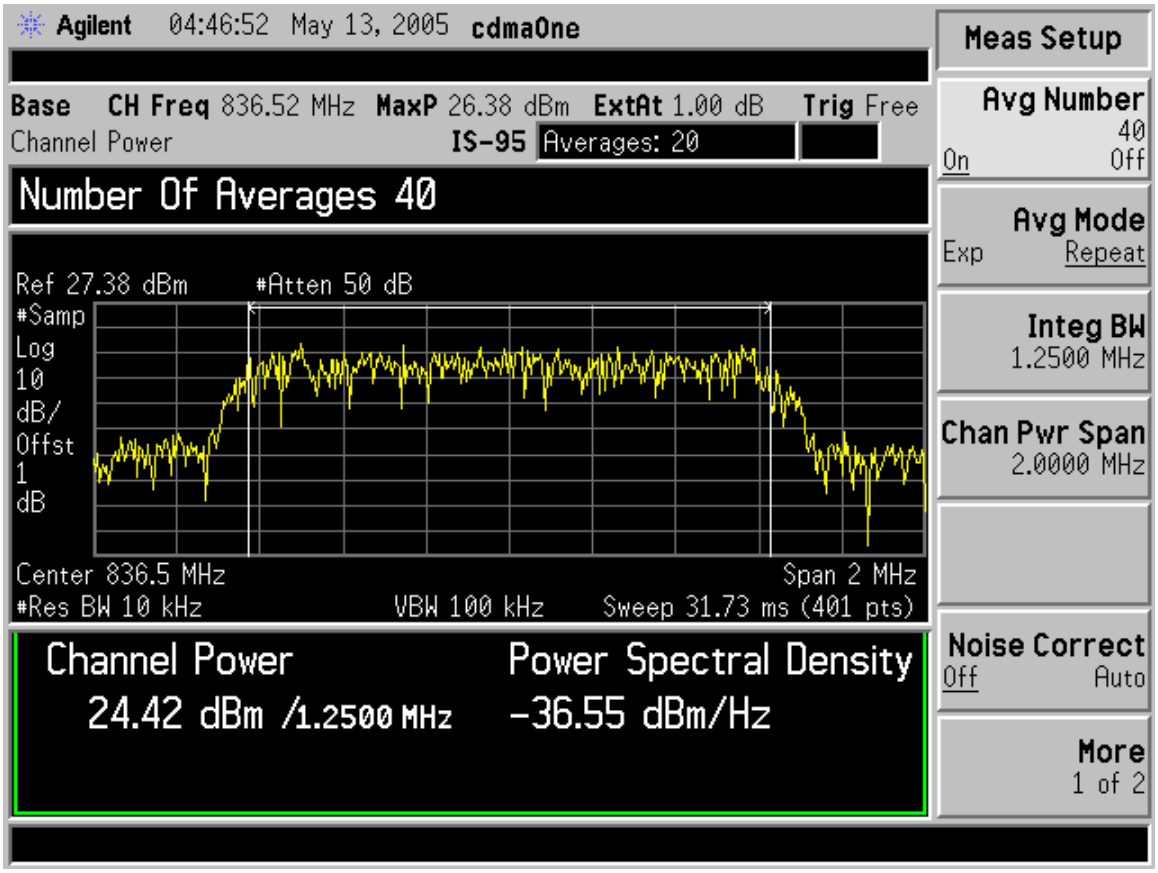
ERP = Measured + Antenna Gain

Equipment used:
Agilent E4405B ESA-E series Spectrum Analyzer
Measurements are done at 25C humidity: 50

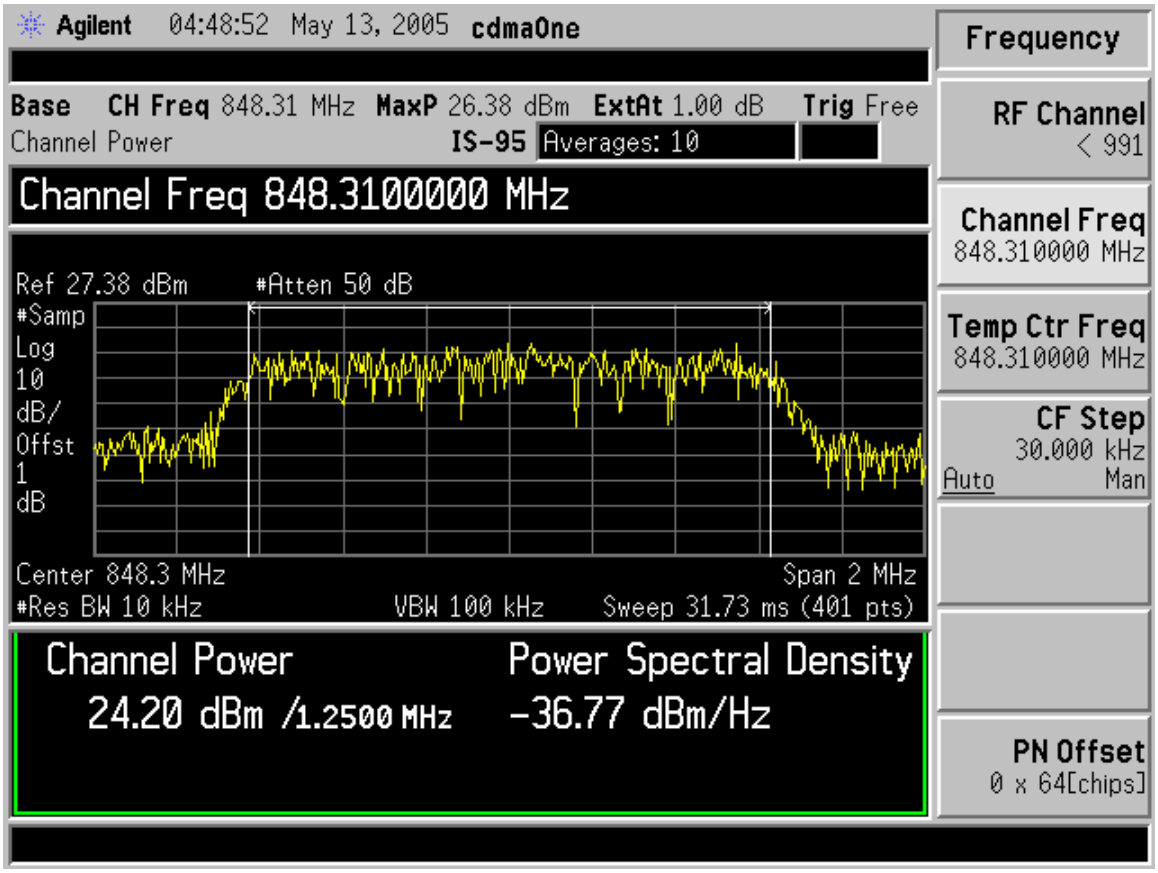
Channel 1013



Channel 384


Agilent 04:46:52 May 13, 2005 cdmaOne
Base CH Freq 836.52 MHz MaxP 26.38 dBm ExtAt 1.00 dB Trig Free
Channel Power IS-95 Averages: 20
Number Of Averages 40
Ref 27.38 dBm #Atten 50 dB
#Samp
Log
10
dB/
Offst
1
dB
Center 836.5 MHz Span 2 MHz
#Res BW 10 kHz VBW 100 kHz Sweep 31.73 ms (401 pts)
Channel Power
24.42 dBm /1.2500 MHz
Power Spectral Density
-36.55 dBm/Hz
Meas Setup
Avg Number
40
On Off
Avg Mode
Exp Repeat
Integ BW
1.2500 MHz
Chan Pwr Span
2.0000 MHz
Noise Correct
Off Auto
More
1 of 2

Channel 777


Agilent 04:48:52 May 13, 2005 cdmaOne
Base CH Freq 848.31 MHz MaxP 26.38 dBm ExtAt 1.00 dB Trig Free
Channel Power IS-95 Averages: 10
Channel Freq 848.3100000 MHz
Ref 27.38 dBm #Atten 50 dB
#Samp
Log
10
dB/
Offst
1
dB
Center 848.3 MHz Span 2 MHz
#Res BW 10 kHz VBW 100 kHz Sweep 31.73 ms (401 pts)
Channel Power
24.20 dBm /1.2500 MHz
Power Spectral Density
-36.77 dBm/Hz
Frequency
RF Channel
< 991
Channel Freq
848.310000 MHz
Temp Ctr Freq
848.310000 MHz
CF Step
30.000 kHz
Auto Man
PN Offset
0 x 64[chips]

Section 4. Audio Frequency Response

Para. No.: 2.1047

Test Performed By:	**Date of Test:**

Minimum Standard: Para. No. 15-19-B.

Test Results: Not Applicable, digital modulation

Measurement Data:

Section 5. Audio Low-Pass Filter Response

Para. No.: 2.1047

Test Performed By:	**Date of Test:**

Minimum Standard: Para. No. 22.915 (d).

Test Results: Not Applicable, digital modulation

Measurement Data:

d) Audio filter characteristics. Except as provided in Sec. 22.917, radiotelephony signals applied to the modulator from the modulation limiter must be attenuated as a function of frequency as specified in this paragraph.

(1) For mobile stations, these signals must be attenuated, relative to the level at 1 kHz, as follows:

(i) In the frequency ranges of 3.0 to 5.9 kHz and 6.1 to 15.0 kHz, signals must be attenuated by at least 40 log (f<divide>3) dB, where f is the frequency of the signal in kHz.

(ii) In the frequency range of 5.9 to 6.1 kHz, signals must be attenuated at least 35 dB.

(iii) In the frequency range above 15 kHz, signals must be attenuated at least 28 dB.

Section 6. Modulation Limiting

Para. No.: 2.1047

Test Performed By:	**Date of Test:**

Minimum Standard: 22.915(b)

Test Results: Not Applicable, digital modulation

Measurement Data:

SAT Deviation:
WB Data Deviation:
ST Deviation:

Section 7. Occupied Bandwidth

Para. No.: 2.1049

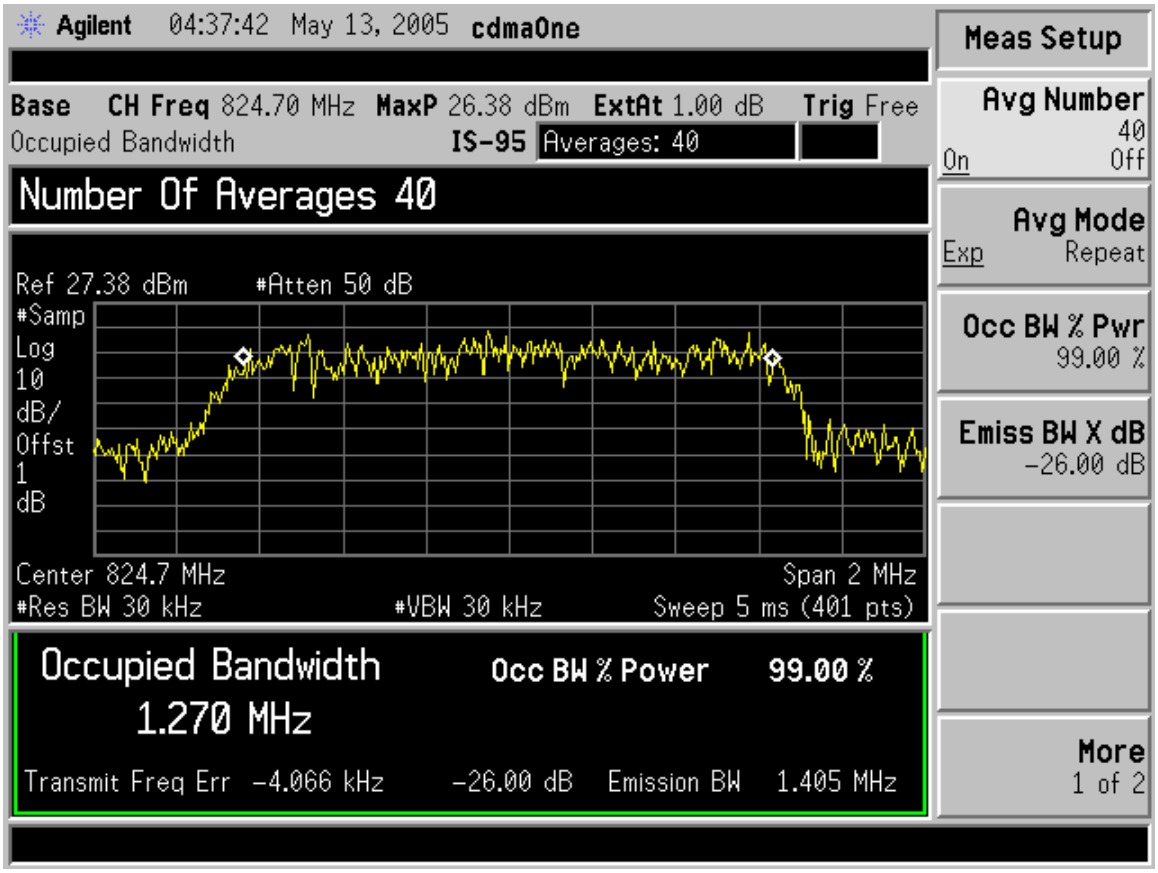
Test Performed By: Sean He, Skyworks	**Date of Test: 5**-12-05

Minimum Standard: 22.917(d)

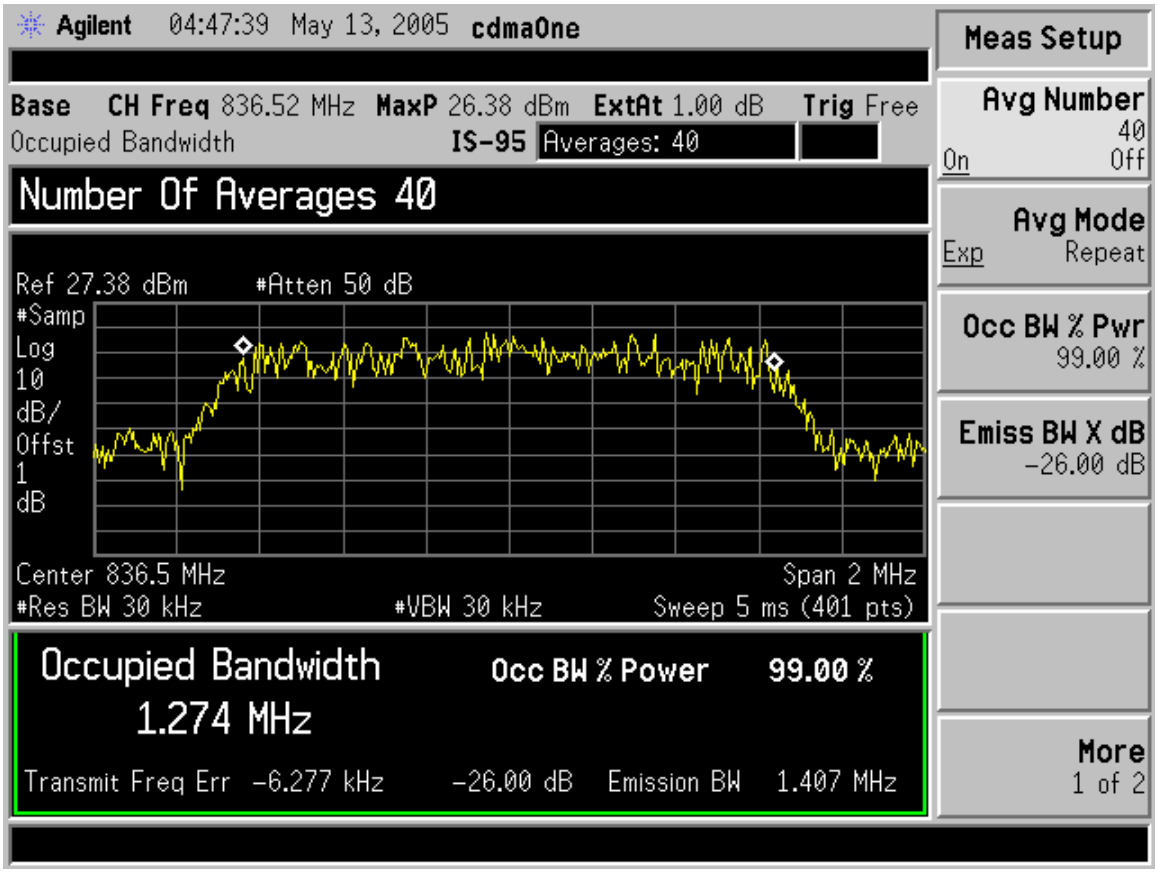
Test Results: Low Channel – 1.49 MHz
Mid Channel – 1.43 MHz
High Channel – 1.48 MHz

Test Data: See plots below.

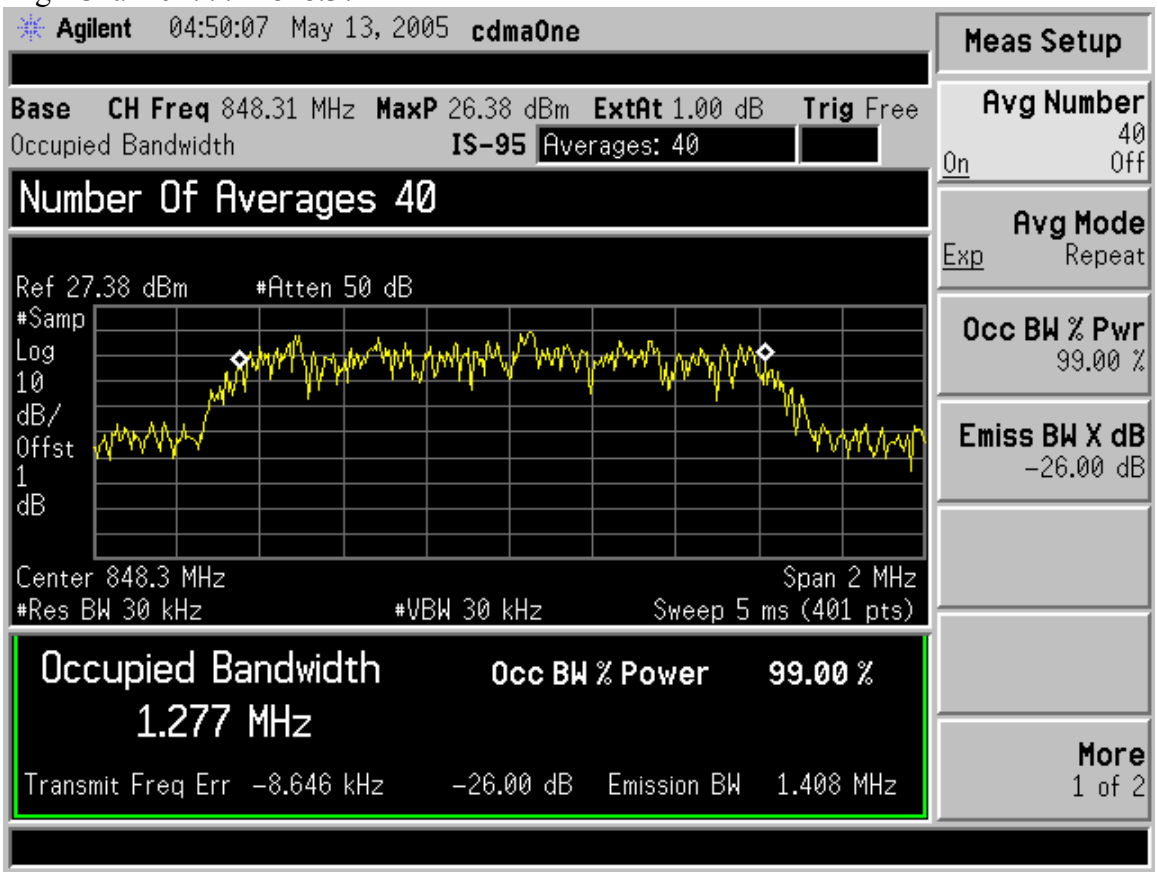
Low Channel 1013 – 824.7 MHz



Mid Channel 834 --- 836.49 MHz



High Channel 777 – 848.37 MHz



Section 8. Spurious Emissions At Antenna Terminals

Para. No.: 2.1051

Test Performed By: A. Laudani	**Date of Test:** 5-11-05

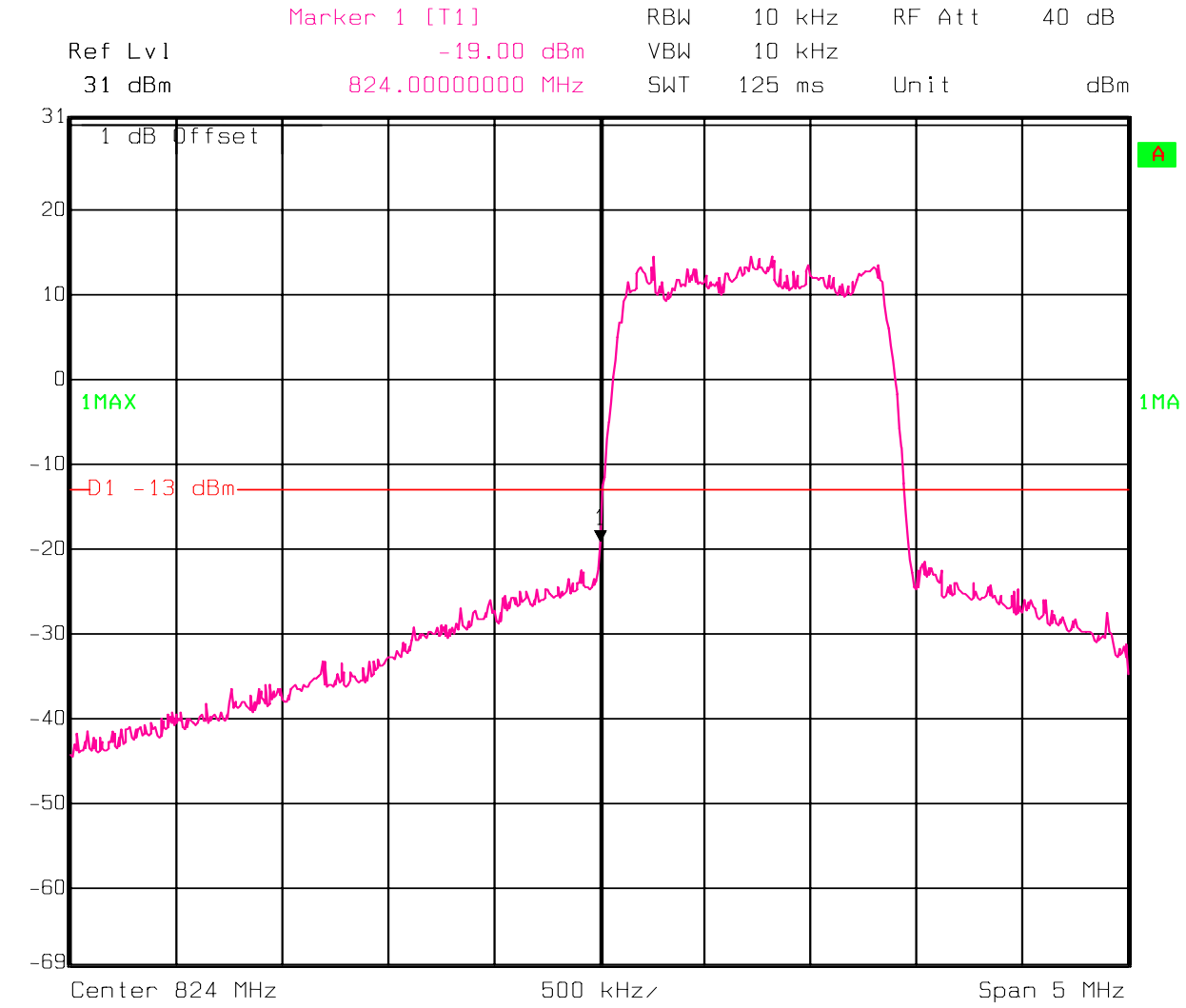
Minimum Standard: Para. No. 22.917(b).

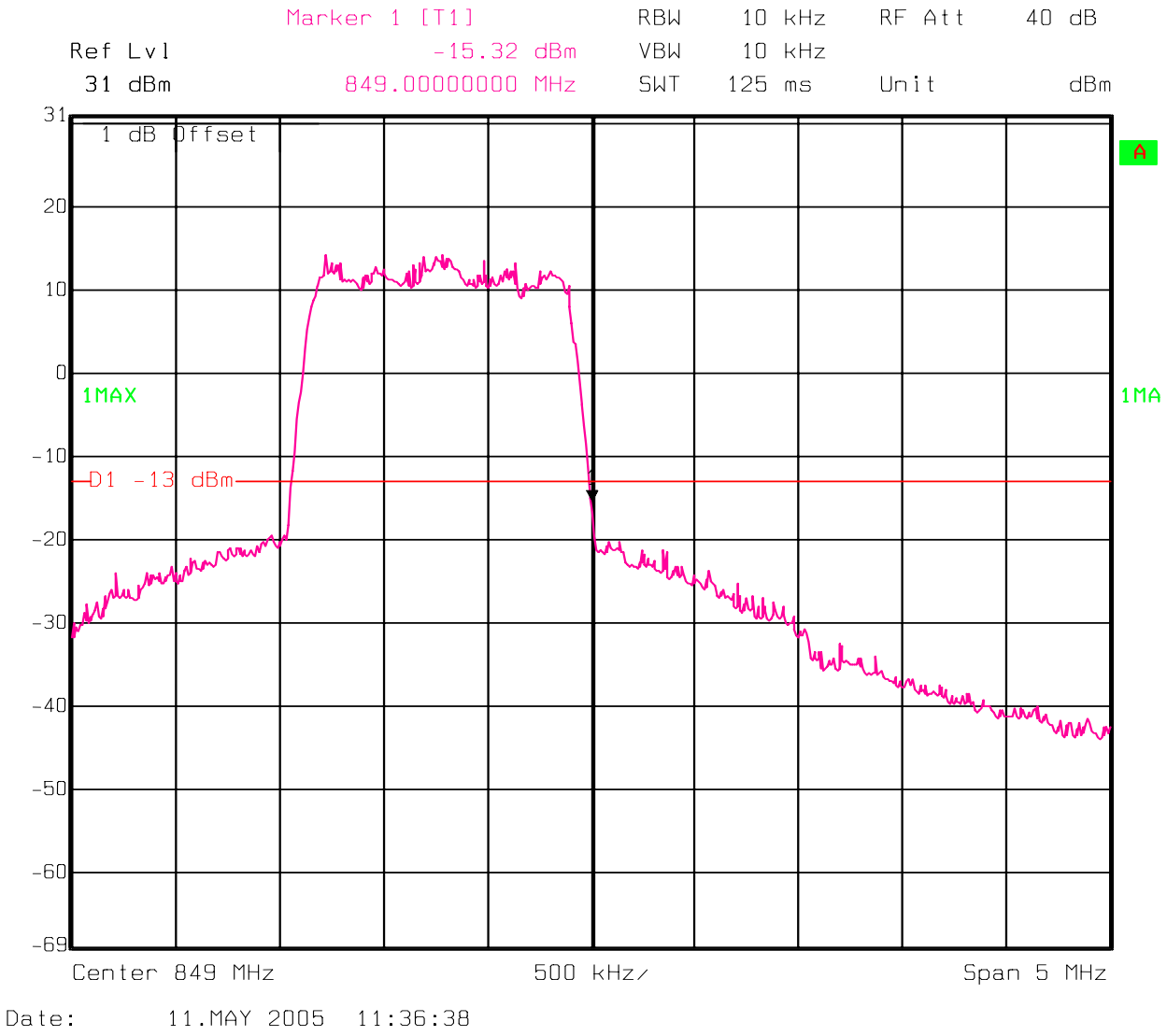
Test Results: From 30 MHz to 10 times the transmit frequency or 9000 MHz,

Bandedge measurements (pages 22-23) show compliance.
Out of band Spurious (pages 24-26) show compliance.
No Emissions within 20 dB of the Limit were found.

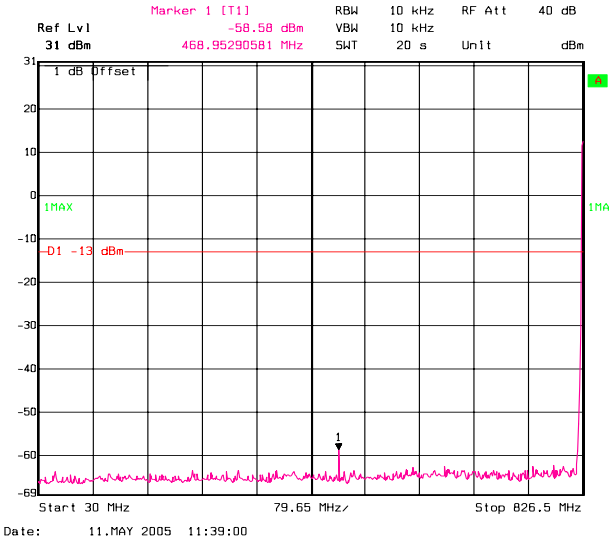
Test Data: See plots below.

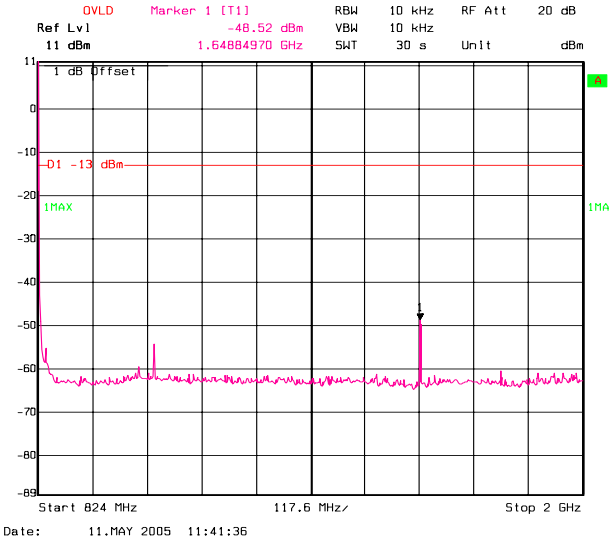
Band Edge

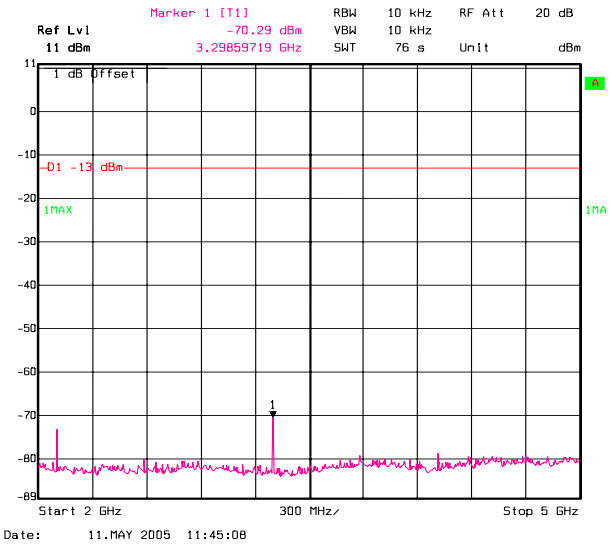

Marker 1 [T1]
RBW 10 kHz
RF Att 40 dB
Ref Lvl
-19.00 dBm
VBW 10 kHz
31 dBm
824.00000000 MHz
SWT 125 ms
Unit dBm
1 dB Offset
A
1MAX
1MA
D1 -13 dBm
Center 824 MHz
500 kHz/
Span 5 MHz
Date: 11.MAY 2005 11:37:31

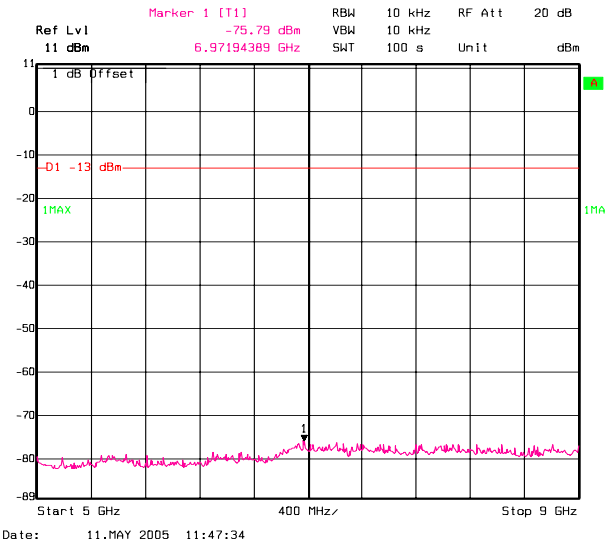

Marker 1 [T1]
Ref Lvl
31 dBm
-15.32 dBm
849.00000000 MHz
RBW 10 kHz
VBW 10 kHz
SWT 125 ms
RF Att 40 dB
Unit dBm
1 dB Offset
1MAX
D1 -13 dBm
A
1MA
31
20
10
0
-10
-20
-30
-40
-50
-60
-69
Center 849 MHz
500 kHz/
Span 5 MHz
Date: 11.MAY 2005 11:36:38

Low Channel: 824.7 MHz -- No emissions within 20 dB of the Limit

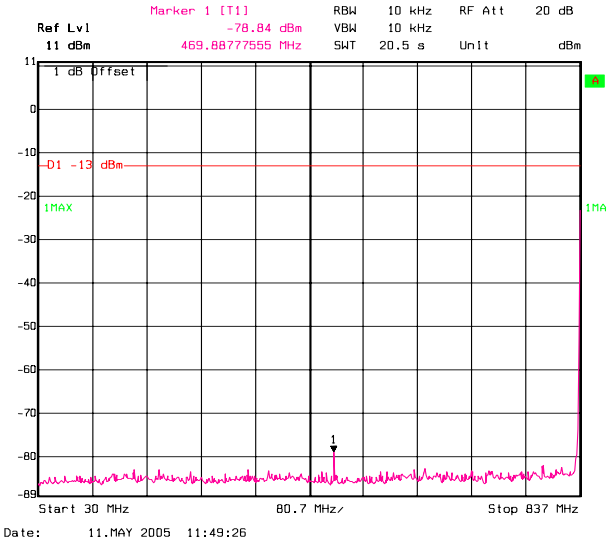


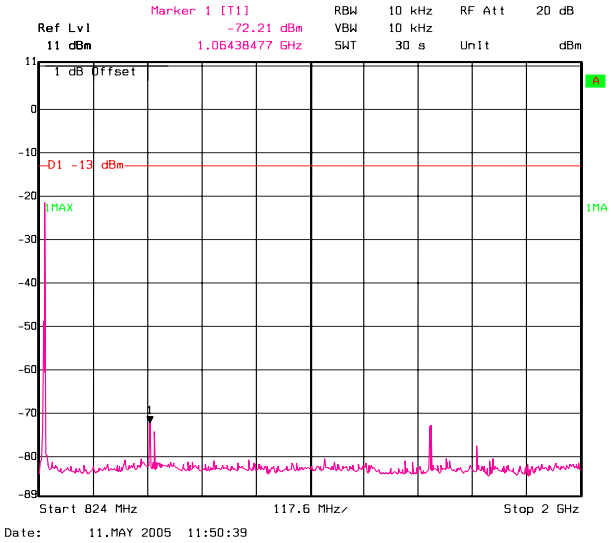


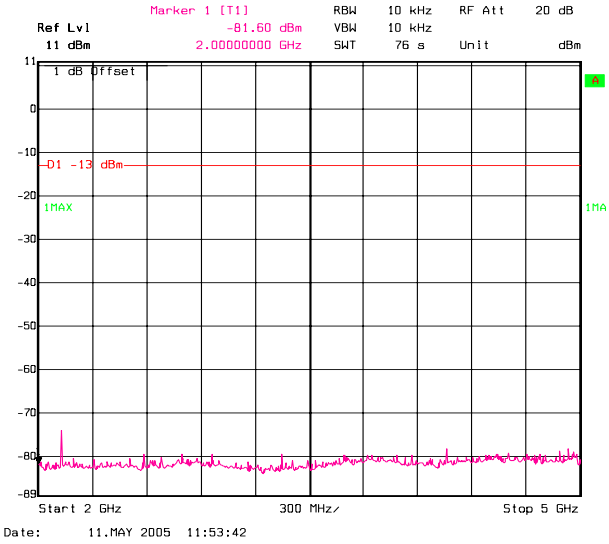


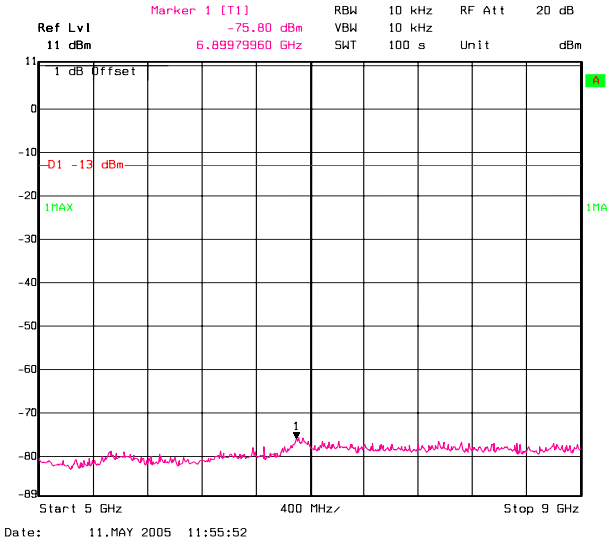


MID Channel: 836.49 MHz -- No emissions within 20 dB of the Limit

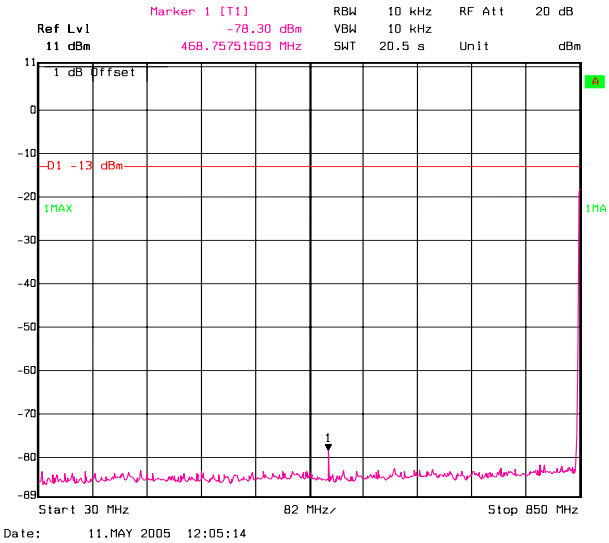


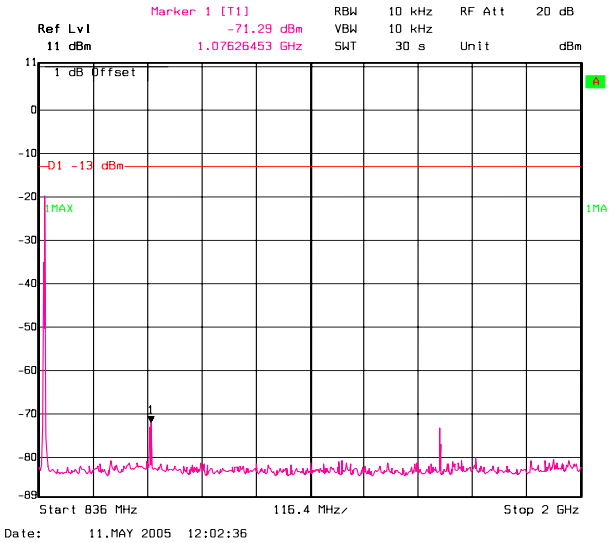


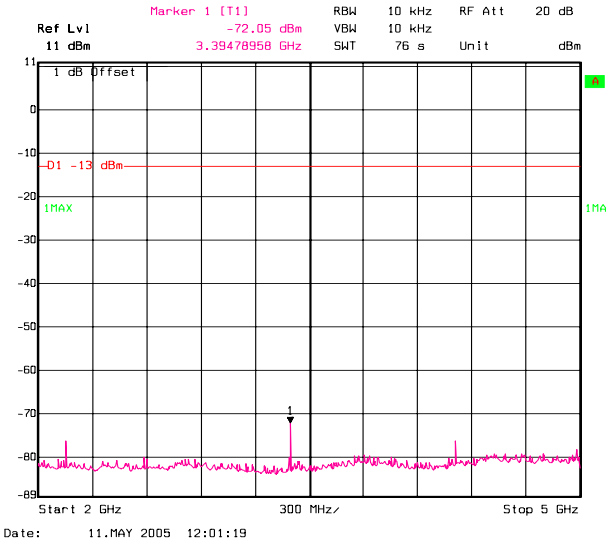


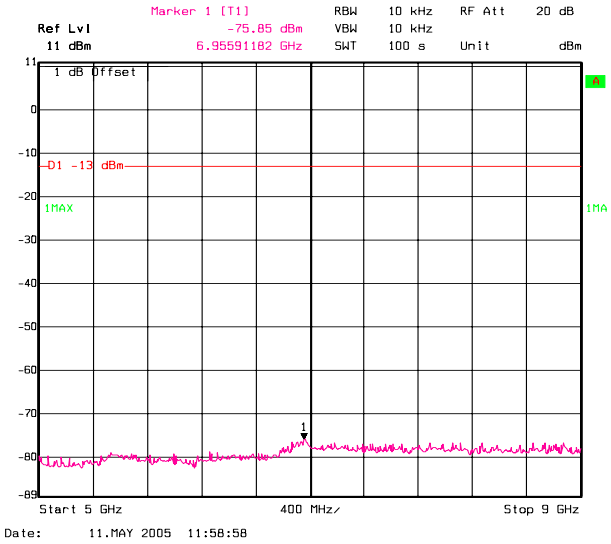


High Channel: 848.3 MHz -- No emissions within 20 dB of the Limit









Section 9. Field Strength of Spurious

Para. No.: 2.1053

Test Performed By: Alan Laudani	**Date of Test:** 5-11-2005

Minimum Standard: Para. No. 22.917(b).

Test Results:

The maximum spurious field strength in CDMA mode is 14.5 dB below the limit @ 1696.6 MHz Signal Substitution was performed which resulted in a margin below the limit of 20.5 dB.

Test Data: See attached tables.

Radiated Emissions Data

Job # : 25-389-VIT Test # : 1
Page 1 of 1

Client Name :	VITELCOM MOBILE TECHNOLOGY U.S.A.				
EUT Name :	CDMA 800 Cellular Phone				
EUT Model # :	CV210-VTL201				
EUT Part # :					
EUT Serial # :	001				
EUT Config. :					
	CDMA TX				
Specification :	FCC Part 22			Reference :	
Rod. Ant. #:	NA	Temp. (deg. C) :	17	Date :	5/11/05
Bicon Ant.#:	NA	Humidity (%) :	55	Time :	9:30 AM
Log Ant.#:	112	EUT Voltage :	NA	Staff :	A. Laudani
DRG Ant. #	529	EUT Frequency :	NA	Photo ID:	
Dipole Ant.#:	NA	Phase:	NA	Peak Bandwidth:	1 MHz
Cable#:	40ft	Location:	RN#: 90579	Video Bandwidth	1 MHz
Preamp#:	842	Distance:	3m		
Spec An.#:	835				
QP #:	NA				
PreSelect#:	NA				

Meas. Freq. (MHz)	Vertical (dBuV) pk	Horizontal (dBuV) pk	CF (db)	Max Level (dBm) pk	Spec. Limit (ERP) (dBm) pk	Margin dB pk	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
824.7	**95.39**	85.58	25.6	23.7	33.0	-9.3	70	1.5	PASS	
1649.4	66.80	59.36	-3.5	-34.0	-13.0	-21.0		1.1	PASS	
2474.1	64.36	**65.21**	1.1	-31.0	-13.0	-18.0		1.0	PASS	
3298.8	63.3	**70.86**	-4.0	-30.4	-13.0	-17.4		1.0	PASS	
4123.5	49.82	49.07	-0.8	-48.2	-13.0	-35.2		1.0	PASS	
4948.2	50.76	49.66	-1.2	-47.7	-13.0	-34.7			PASS	NF
5772.9	49.03	48.64	2.5	-45.7	-13.0	-32.7			PASS	NF
6597.6	48.39	48.95	3.4	-44.9	-13.0	-31.9			PASS	NF
7422.3	48.34	47,37	5.8	-43.1	-13.0	-30.1			PASS	NF
8247	47.22	47.69	7.5	-42.1	-13.0	-29.1			PASS	NF
836.49	**95.15**	85.34	25.6	23.5	33.0	-9.5	70	1.2	PASS	
1672.98	64.78	58.12	-3.5	-36.0	-13.0	-23.0		1.1	PASS	
2509.47	60.31	**64.91**	2.0	-30.4	-13.0	-17.4		1.0	PASS	
3345.96	58.41	63.45	-4.0	-37.8	-13.0	-24.8		1.0	PASS	
4182.45	49.13	48.12	-0.8	-48.9	-13.0	-35.9		1.0	PASS	
5018.94	49.36	49.46	1.7	-46.1	-13.0	-33.1			PASS	NF
5855.43	48.94	47.47	2.5	-45.8	-13.0	-32.8			PASS	NF
6691.92	47.99	47.07	3.4	-45.9	-13.0	-32.9			PASS	NF
7528.41	47.1	47.92	7.0	-42.3	-13.0	-29.3			PASS	NF
8364.90	47.49	47.66	7.5	-42.1	-13.0	-29.1			PASS	NF
848.31	**96.69**	86.96	25.6	25.0	33.0	-8.0	70	1.4	PASS	
1696.62	**73.30**	61.51	-3.5	-27.5	-13.0	-14.5		1.1	PASS	
2544.93	**62.37**	56.71	2.0	-32.9	-13.0	-19.9		1.0	PASS	
3393.24	61.68	63.91	-4.0	-37.4	-13.0	-24.4		1.0	PASS	
4241.55	49.61	50.42	-0.8	-47.6	-13.0	-34.6		1.0	PASS	
5089.86	50.48	50.69	1.7	-44.9	-13.0	-31.9			PASS	NF
5938.17	48.30	47.40	2.5	-46.5	-13.0	-33.5			PASS	NF
6786.48	47.81	47.40	3.4	-46.1	-13.0	-33.1			PASS	NF
7634.79	47.05	47.15	7.0	-43.1	-13.0	-30.1			PASS	NF
8483.10	46.74	46.74	7.5	-43.0	-13.0	-30.0			PASS	NF

NF = Noise Floor measurement.

Substitution Method For Radiated Emissions

Job # : 25-083-VITR1 Test # : 2
Page 1 of 1

Client Name :	VITELCOM MOBILE TECHNOLOGY U.S.A.				
EUT Name :	CDMA 800 Cellular Phone				
EUT Model # :	CV210-VTL201				
EUT Part # :					
EUT Serial # :	001				
EUT Config. :					
	CDMA TX				
Specification :	FCC Part 22			Reference :	
Rod. Ant. #:	NA	Temp. (deg. C) :	17	Date :	5/11/2005
Bicon Ant.#:	NA	Humidity (%) :	55	Time :	
Log Ant.#:	112	EUT Voltage :	3.7	Staff :	A. Laudani
DRG Ant. #	529	EUT Frequency :	dc	Photo ID:	
Dipole Ant.#:	NA	Phase:	na	Peak Bandwidth:	RBW-1MHz, VBW-1MHz
Cable#:	60ft	Location:	RN#: 90579		
Preamp#:	842	Distance:	3m		
Spec An.#:	835				

target Frequency mHz	target level dBuV/m	Dipole Gain dBi	cable loss dB	Signal Generator dBm	Total (EIRP) dBm	Spec dBm	Margin dBm
824.70	95.39	0	4.94	28.41	23.5	38.5	-15.0
836.49	95.15	0	5.01	28.73	23.7	38.5	-14.8
848.37	96.69	0	5.11	30.17	25.1	38.5	-13.4

target Frequency mHz	target level dBuV/m	Horn Gain dBi	cable loss dB	Signal Generator dBm	Total (EIRP) dBm	Spec dBm	Margin dBm
1696.62	73.30	5.45	0.65	-38.30	-33.5	-13.0	-20.5
2474.10	65.21	6.85	1.6	-40.59	-35.3	-13.0	-22.3
2509.47	64.91	6.92	1.7	-40.29	-35.0	-13.0	-22.0
2544.93	62.37	6.98	1.7	-43.03	-37.7	-13.0	-24.7
3298.8	70.86	7.86	2.3	-37.27	-31.7	-13.0	-18.7

Section 10. Frequency Stability

Para. No.: 2.1055

Test Performed By: Sean He, Skyworks	**Date of Test: 5**-12-05

Minimum Standard: Para. No. 22.355

Test Results:
Limit = 2.5 ppm of Frequency
Worst Case 0.019 ppm variation -- Complies, see tables below.

Measurement Data:

Frequency Stability over Battery Voltage Range

Date:	12-May-05	
Mode:	CDMA 800	
Channel:	384	

Voltage	Frequency Error	Frequency Error
Volt	HZ	(PPM)
4.2 volt	**-7.30**	**-0.004**
4.1 volt	**8.70**	**0.005**
4.0 volt	**-10.40**	**-0.006**
3.9 volt	**9.40**	**0.005**
3.8 volt	**10.50**	**0.006**
3.7 volt	**14.90**	**0.008**
3.6 volt	**9.10**	**0.005**
3.5 volt	**11.80**	**0.006**
3.4 volt	**13.40**	**0.007**

Frequency Stability vs. Temperature

Frequency stability measurements were made over the temperature range of -30°C to +60°C. The frequency error is measured with HP8960. Climatic control was accomplished using a temperature chamber. The temperature was first lowered to -30°C and then raised hourly in 10°C increments. The unit remained in the chamber during temperature transitions and during the measurement process.

Maximum deviation					
15.6	Hz	824.70	MHz	0.019	ppm
13.9	Hz	836.49	MHz	0.017	ppm
13.5	Hz	948.31	MHz	0.014	ppm

Freq Error(Hz)			
Temperature(°C)	**Ch1013**	**Ch384**	**Ch777**
-30	13.2	13.9	12.6
-20	14.2	13.6	14.2
-10	12.5	8.7	12.4
0	10.6	9.8	13.5
10	8.8	10.6	9.9
20	9.2	11.5	13.2
30	14.3	13.2	11.5
40	15.6	14.3	9.1
50	8.6	8.5	10.2
60	11.6	10.6	11.1

Equipment List:
Agilent 8960 Series 10 E5515C Wireless communication Test Set
TestEquity Halfcube Temperature Chamber Model 105

Section 11. Test Equipment List

Emissions Test Equipment Used by Nemko					
Client	VITELCOM MOBILE TECHNOLOGY U.S.A.	**EUT Name**	CDMA 800 Cellular Phone		
PAN #	24-611-KYO	**EUT Model**	CV210-VTL201		
Device Type	*Model #*	*MFG*	*Asset #*	*SN*	*Cal Due*
OATS #1 (South)					
Spectrum Analyzer	1088.3494.30	R & S	835	830320/002	12-30-05
Antenna, Ridged Guide	3115	EMCO	529	2505	11-19-05
Antenna, Ridged Guide	3115	EMCO	752	9609-4943	12-19-05
Signal Generator	1018	Gigatronics	440	314104	9/22/2005
Dipole Set	3121C	EMCO	756	1215	8-27-05
Antenna, LPA	3146	EMCO	112	9101-2988	9-19-05
Attenuator, 30 dB	8491B	HP	332	X0475	4-21-05
Environmental Chamber	NA	Thermotron	048	NA	1-12-06
Multimeter	111	Fluke	810	NA	1-6-06
Power Supply	Adj. Dual DC	Micronta	772	NA	NCR

NA: Not Applicable
NCR: No Cal Required
COU: CAL On Use