KTL Test Report No.:	0L0296RUS3
Applicant:	Andrew Corporation
Equipment Under Test:	InCell Fiber Optic Distributed Antenna System Model: InCell-1900
FCC ID:	KUWINCELL1900
In Accordance With:	FCC Part 24, Subpart E Broadband PCS Repeaters
Tested By:	KTL Dallas Inc. 802 N. Kealy Lewisville, Texas 75057-3136
Authorized By:	Tom Tidwell, RF Group Manager
Date:	February, 2001
Total Number of Pages:	49

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Table of Contents

Section 1.	Summary of Test Results	3
Section 2.	General Equipment Specification	5
Section 3.	RF Power Output	7
Section 4.	Occupied Bandwidth	8
Section 5.	Spurious Emissions at Antenna Terminals	17
Section 6.	Field Strength of Spurious	36
Section 7.	Test Equipment List	39
Annex A -	Test Details	40
Annex B -	Test Diagrams	46

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Section 1. Summary of Test Results

Manufacturer: Andrew Corporation

Model No.: InCell 1900

Serial No.: S02

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 24, Subpart E.

New Submission Production Unit

Class II Permissive Change Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".

NYLAP

NVLAP LAB CODE: 100426-0

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FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Summary Of Test Data

	PARA.			
NAME OF TEST	NO.	SPEC.	MEAS.	RESULT
RF Power Output (CDMA)	24.232	100W	0.011W	Complies
RF Power Output (GSM)	24.232	100W	0.032W	Complies
RF Power Output (NADC)	24.232	100W	0.039	Complies
Occupied Bandwidth (CDMA)	24.238	Input/Output	Plot	Complies
Occupied Bandwidth (GSM)	24.238	Input/Output	Plot	Complies
Occupied Bandwidth (NADC)	24.238	Input/Output	Plot	Complies
Spurious Emissions at Antenna Terminals	24.238(a)	-13 dBm	<-13 dBm	Complies
Field Strength of Spurious Emissions	24.238(a)	-13 dBm E.I.R.P.	<-13 dBm	Complies
Frequency Stability	24.235	N/A	N/A	N/A

Footnotes:

(1) Modulation characteristics were not tested since the E.U.T. simply re-transmits a modulated waveform but does not generate this waveform.

Measurement uncertainty for each test configuration is expressed to 95% probability.

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Section 2. General Equipment Specification

Supply Voltage Input(CDU):	120 VAC via power mains		
Supply Voltage Input(RAU):	24 VDC from CDU		
Frequency Bands: Downlink: Frequency Bands: Uplink:			
Type of Modulation and Designator:	Block C: 1870 – 1885 MHz Block D: 1885 – 1890 MHz Block E: 1890 – 1895 MHz Block F: 1895 – 1910 MHz CDMA GSM NADC (F9W) (GXW) (DXW)		
System Gain:	15 dB		
Output Impedance:	50 ohms		
Max Input:	+0 dBm		
RF Output (Rated): Downlink	CDMA .011 W GSM .032 W NADC .040 W		
Frequency Translation:	F1-F1 F1-F2 N/A		
Band Selection:	Software Duplexer Fullband		

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Description of Operation

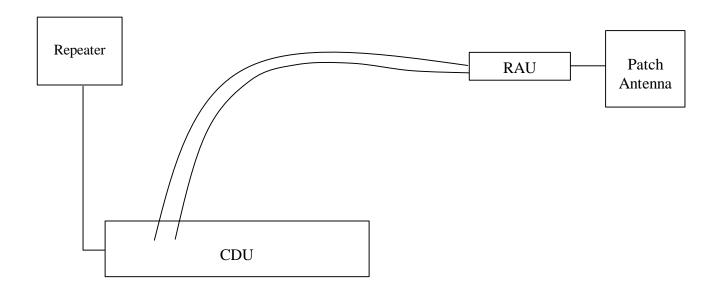
The EUT is a PCS band repeater system that uses fiber optic to distribute modulated rf signals from a base station or repeater to locations throughout a building. The system operates with a direct connection in the uplink direction.

The system is made up of two components:

- 1) CDU (Central Distribution Unit) This unit is typically located in a wiring closet. Each CDU can interface to six RAU (Remote Antenna Units). The CDU collects and distributes voice and data signals through fiber cable pairs. The CDU connects to the output of a repeater unit. The Uplink direction is a directly wired connection and cannot connect directly to an antenna. The transmit signals from the repeater are converted from rf to optical and distributed via the fiber cables to a RAU.
- 1) RAU (Remote Antenna Unit) This unit converts the signal received from the CDU back to rf and transmits the rf to subscriber units within its coverage range. Conversely it receives the rf signals transmitted by the subscriber units, converts the rf to an optical signal and sends it to the CDU via fiber.

The overall rf gain of the system in the downlink direction is nominally 15 dB.

System Diagram



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Section 3. RF Power Output

NAME OF TEST: RF Power Output PARA. NO.: 2.1046

TESTED BY: David Light DATE: 2/1/01

Test Results: Complies.

Measurement Data:

	Modulation Type	Per Channel Output Power	Composite Output Power
		(dBm)	(dBm)
Downlink	CDMA 3 Carriers	5.5	10.25
Downlink	GSM 5 Carriers	8.0	15.0
Downlink	NADC 2 Carriers	12.9	15.9

Equipment Used: 1436-1081-1471

Measurement Uncertainty: +/- 1.6 dB

Temperature: 22 °C

Relative 50 %

Humidity:

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth (CDMA) PARA. NO.: 2.1049

TESTED BY: David Light DATE: 2/2/01

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1471-1081

Measurement Uncertainty: +/- 1.6 dB

Temperature: 22 °C

Relative 50 %

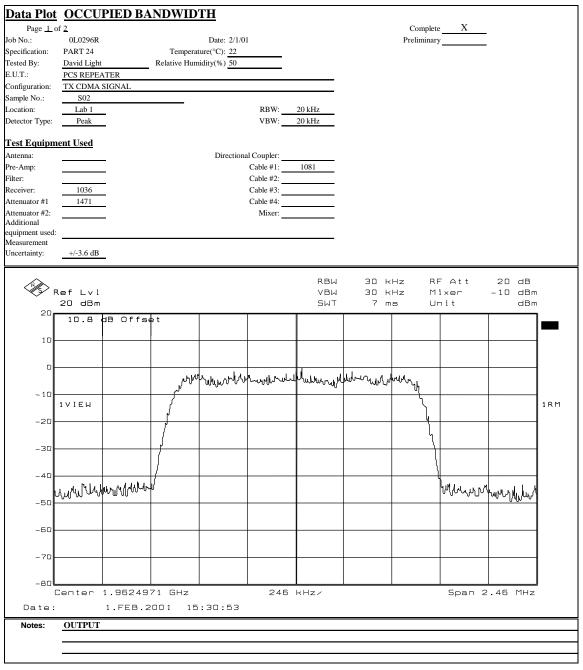
Humidity:

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Test Data – Occupied Bandwidth - CDMA

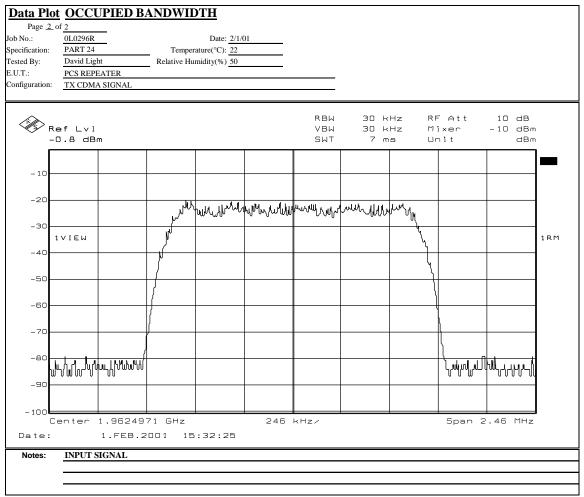


FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Test Data - Occupied Bandwidth - CDMA



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

NAME OF TEST: Occupied Bandwidth (GSM) PARA. NO.: 2.1049

TESTED BY: David Light DATE:2/2/01

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1471-1081

Measurement Uncertainty: +/- 1.6 dB

Temperature: 22 °C

Relative 50 %

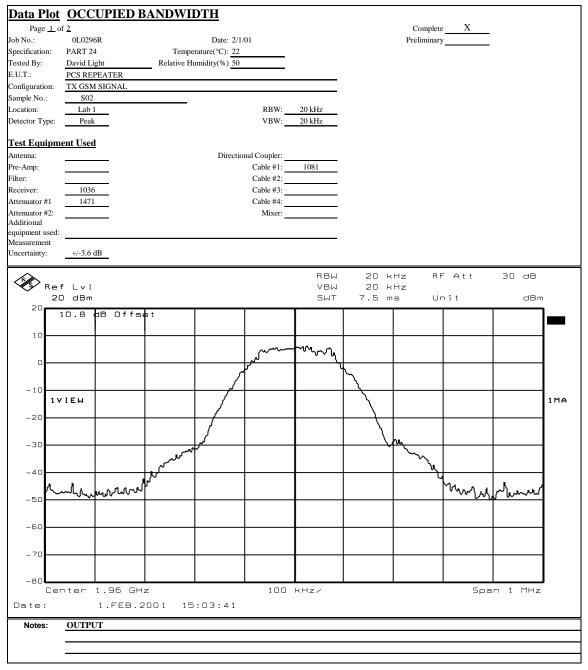
Humidity:

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Test Data - Occupied Bandwidth - GSM

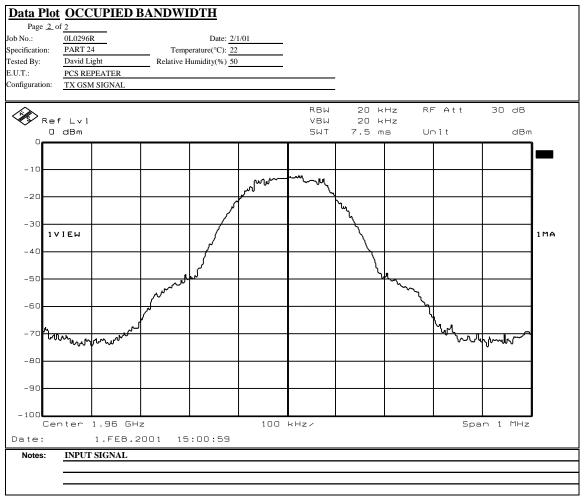


FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Test Data - Occupied Bandwidth - GSM



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

NAME OF TEST: Occupied Bandwidth (NADC) PARA. NO.: 2.1049

TESTED BY: David Light DATE: 2/2/01

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1471-1081

Measurement Uncertainty: +/- 1.6 dB

Temperature: 22 °C

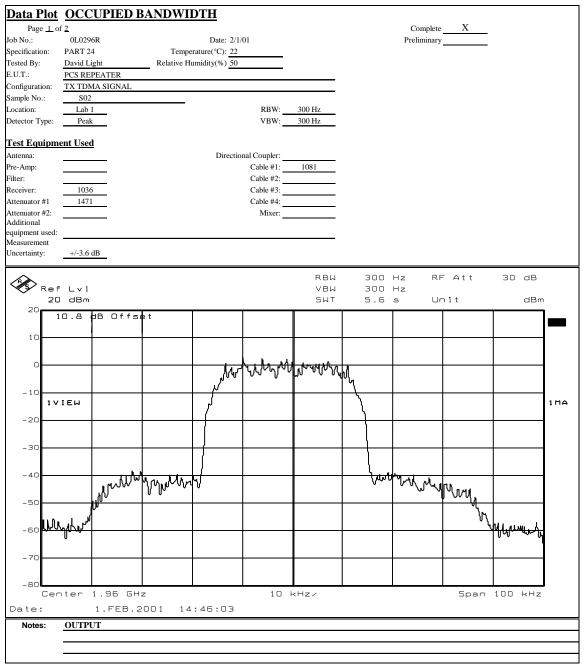
Relative 50 %

Humidity:

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Test Data - Occupied Bandwidth - NADC

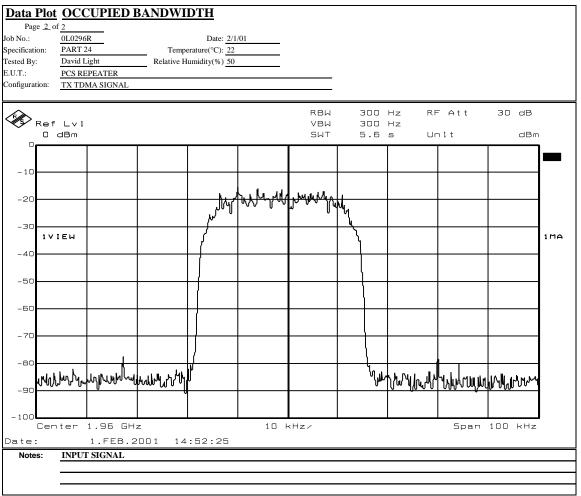


FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Test Data - Occupied Bandwidth - NADC



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals PARA. NO.: 2.1051

TESTED BY: David Light DATE: 02/05/01

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1081-1471

Measurement Uncertainty: +/- 1.6 dB

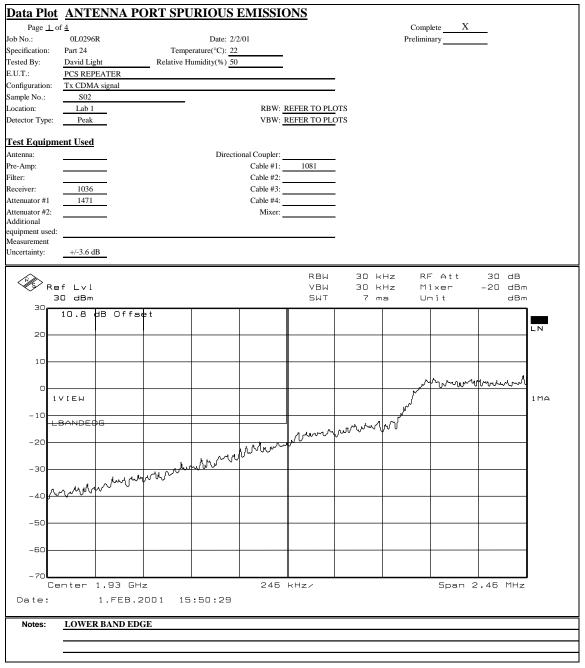
Temperature: 22 °C

Relative 50 %

Humidity:

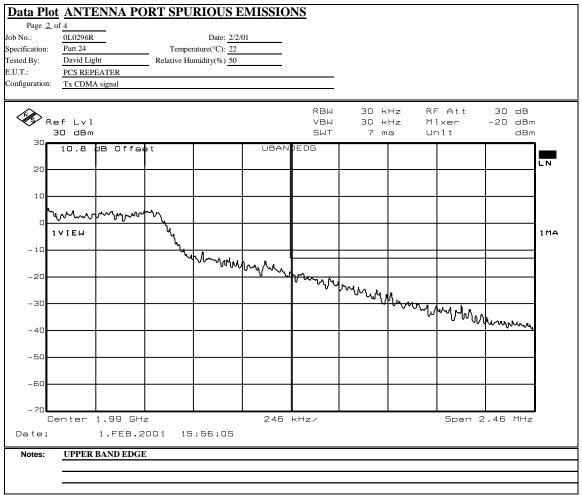
EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



EQUIPMENT: InCell-1900

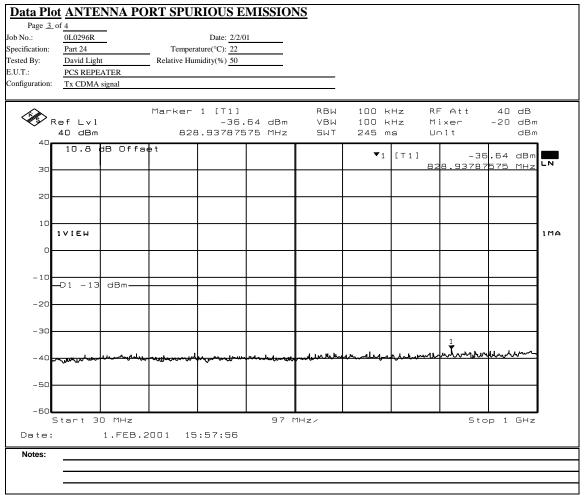
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FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

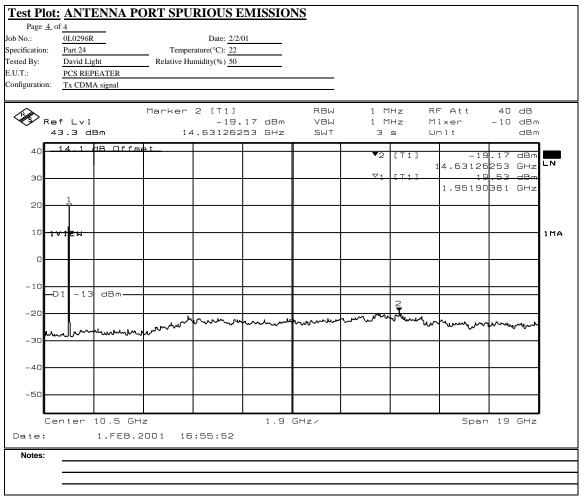
EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



EQUIPMENT: InCell-1900

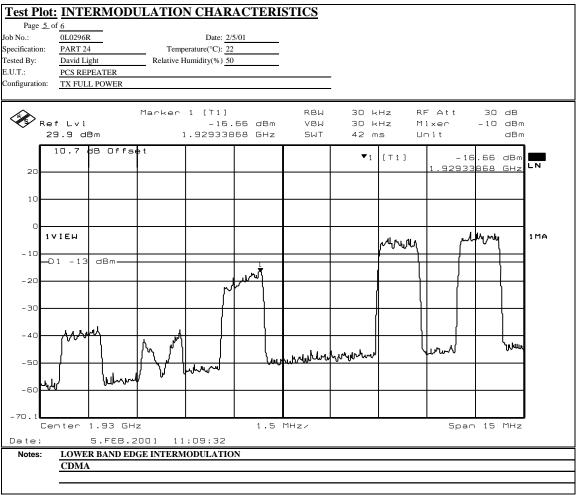
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FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

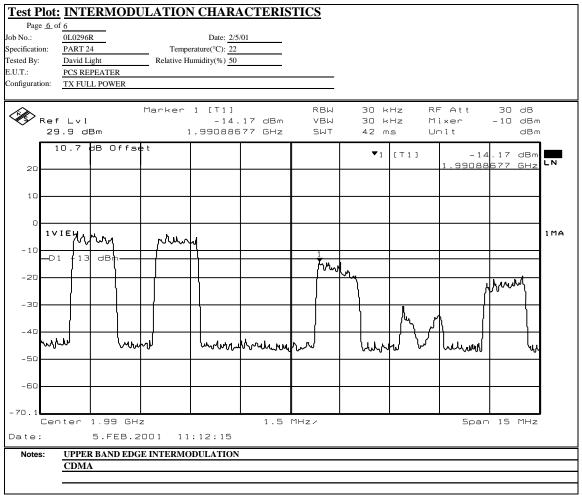
FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

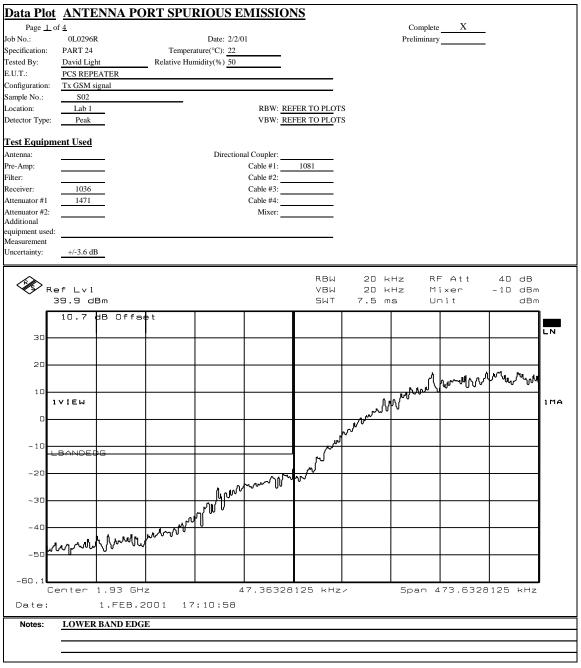
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FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



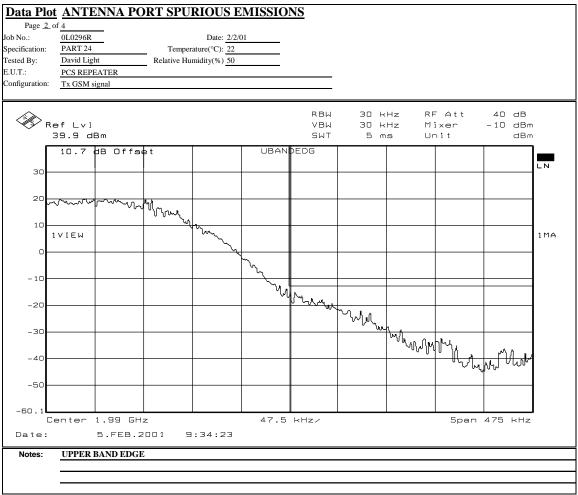
EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



EQUIPMENT: InCell-1900

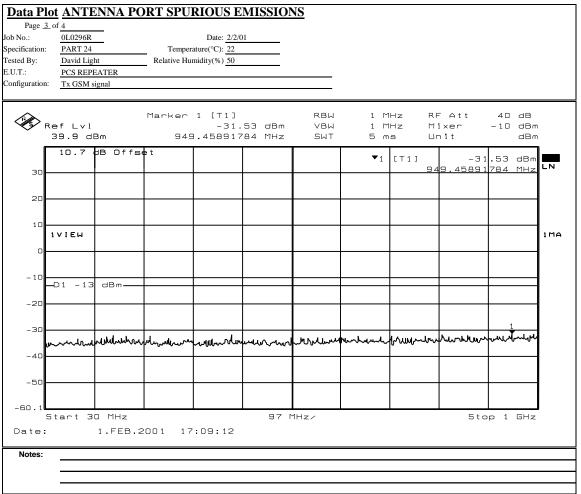
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FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

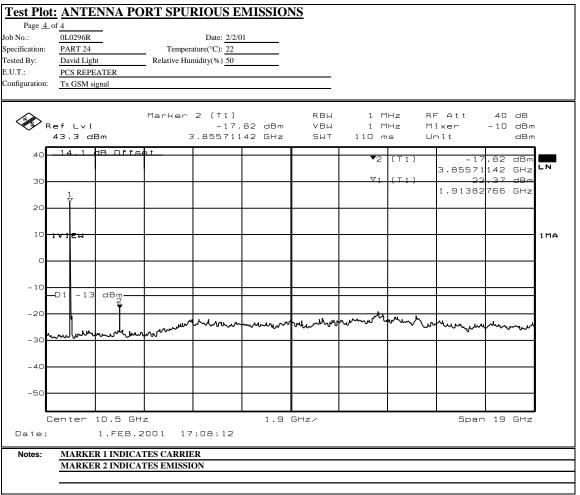
FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

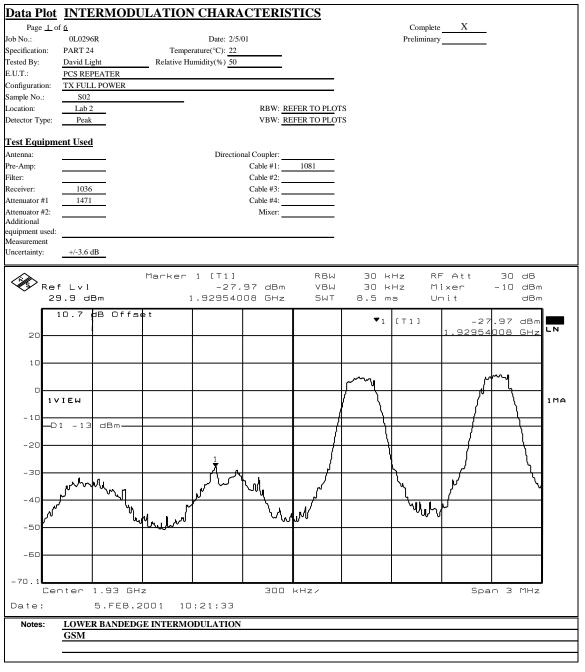
EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



EQUIPMENT: InCell-1900

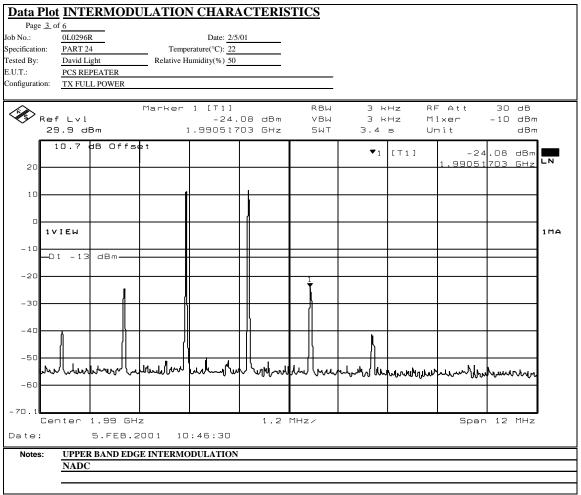
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FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

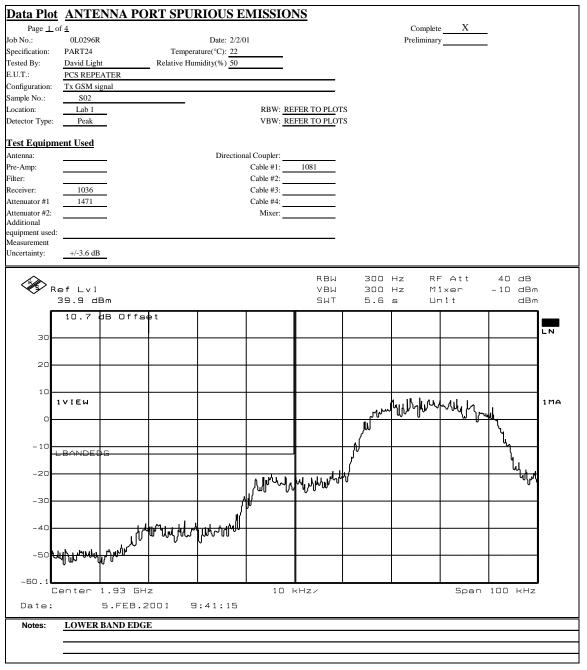
EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



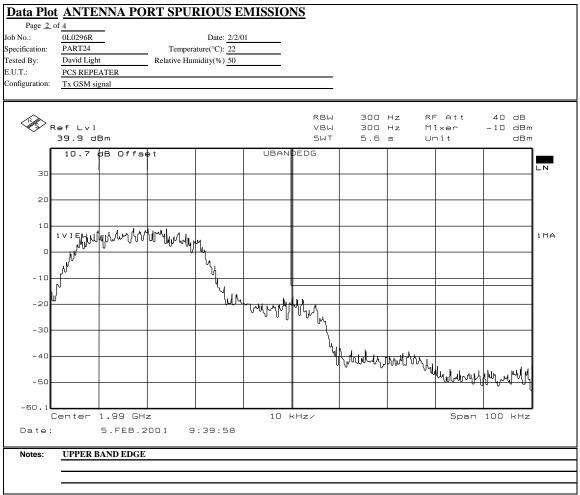
EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



EQUIPMENT: InCell-1900

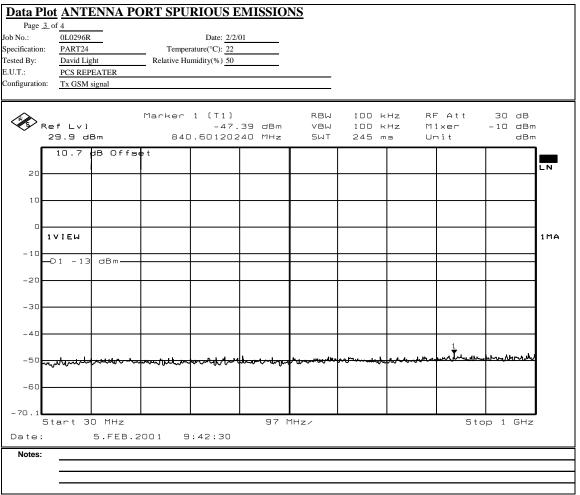
FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

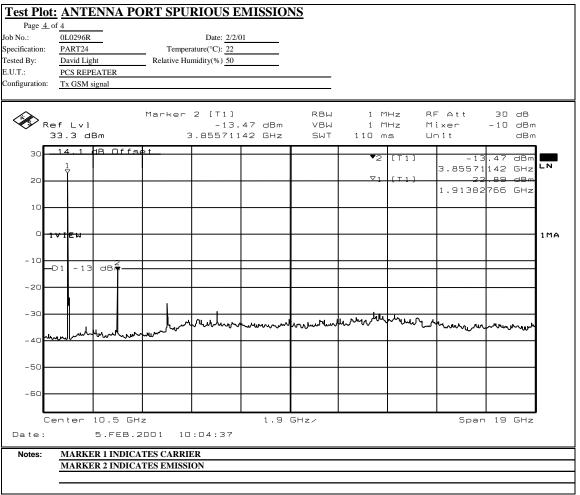
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FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

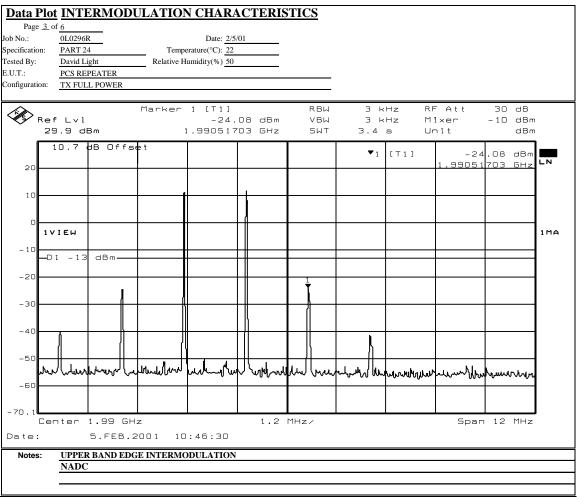
FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

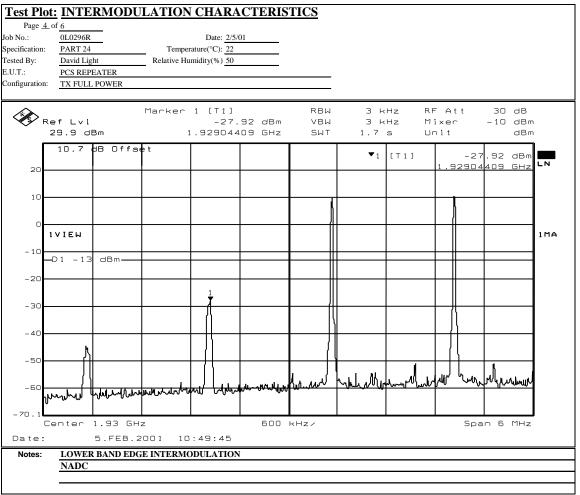
FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious Emissions PARA. NO.: 2.1051

TESTED BY: David Light DATE: 2/5/01

Test Results: Complies.

Test Data: See attached table.

Equipment Used: 1464-1484-1485-1016

Measurement Uncertainty: +/- 6 dB

Temperature: 22 °C

Relative 50 %

Humidity:

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Test Data - Radiated Emissions - Downlink

				Field S	Strength of S	Spurious 1	Emissions			
Page <u>1</u> of <u>1</u>								Complete	X	
Job No.:	0L0296R			Date:	2/5/01			Preliminary		
Specification:	PART 24		Tempe	erature(°C):	22					
Tested By:	David Light		Relative H	umidity(%)	50					
E.U.T.:	PCS REPEA	TER	_							
Configuration:	TX CW SIGNAL, FULL POWER, MID BAND						_			
Sample Number:	S02						_			
Location:	AC 3		<u> </u>		RBW:	1 MHz	_	Measurement		
Detector Type:	Peak				VBW:	1 MHz	_	Distance:	3	m
							_			
Test Equipme	ent Used									
Antenna:				D	Pirectional Coupler:		_			
Pre-Amp:	1016				Cable #1:	1484	_			
Filter:					Cable #2:	1485	_			
Receiver:	1464				Cable #3:		_			
Attenuator #1					Cable #4:		_			
Attenuator #2:					Mixer:		=			
Additional equipment used: Measurement Uncertainty:							-			
Oncertainty:	+/-3.6 dB									
Frequency	Meter Reading	Correction Factor		Pre-Amp Gain	Substitution Antenna Gain		ERP	ERP	Polarity	Comments

Frequency	Meter Reading	Correction Factor	Pre-A Gai	-	ERP	ERP	Polarity	Comments
(MHz)	(dBm)	(dB)	(dB) (dBd)	(dBm)	(mW)		
3920	-55.5	34.3	33.	4 8.0	-46.6	0.000022	Н	
5880	-52.1	36.0	32	9.1	-39.0	0.000125	Н	
7840	-58.0	39.8	33.	4 9.4	-42.2	0.000061	Н	
9800	-59.0	42.6	36.	1 10.5	-42.0	0.000063	Н	
11760	-61.8	46.0	36.	5 11.0	-41.4	0.000073	Н	NOISE FLOOR
13720	-60.7	50.8	34.	2 10.4	-33.7	0.000432	Н	NOISE FLOOR
15680	-61.3	44.0	34.	7 13.6	-38.4	0.000144	Н	NOISE FLOOR
3920	-52.7	40.4	33.	4 8.0	-37.7	0.000169	V	
5880	-50.1	38.5	32	9.1	-34.5	0.000352	V	
7840	-56.0	40.4	33.	4 9.4	-39.5	0.000111	V	
9800	-58.3	40.4	36.	1 10.5	-43.5	0.000045	V	
11760	-61.8	42.5	36.	5 11.0	-44.9	0.000033	V	NOISE FLOOR
13720	-60.7	47.6	34.:	2 10.4	-36.9	0.000206	V	NOISE FLOOR
15680	-61.3	43.2	34.	7 13.6	-39.2	0.000121	V	NOISE FLOOR
•								

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Photographs of Test Setup

FRONT VIEW



REAR VIEW



FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Section 7. Test Equipment List

ID	Description	Manufacturer	Serial Number	Cal.	Cal. Due
		Model Number	Number	Date	Date
1436	Line coiplers	Mini-circuits ZFDC-10-21075	0	CNR	CNR
1081	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	05/23/00	05/23/01
1471	10 db Attenuator DC 18 Ghz	MCL Inc. BW-S10W2 10db-2WDC	NONE	CBU	N/A
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	06/14/99	06/14/02
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/02/01	01/02/02
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	05/25/00	05/25/01
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	05/25/00	05/25/01
1016	AMPLIFIER	HEWLETT PACKARD 8449A	2749A00159	05/24/00	05/24/01

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Annex A - Test Details

Page 40 of 49

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

PARA. NO.: 2.1046

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

NAME OF TEST: RF Power Output

Minimum Standard: Para. No.24.232. Base stations are limited to 1640 watts peak

E.I.R.P. with an antenna height up to 300 meters HAAT. In no case may the peak output power of a base station transmitter exceed

100 watts.

Method Of Measurement:

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi$ $R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

 $E = the \ maximum \ measured \ field \ strength \ in \ V/m$

R =the measurement range (3 meters)

 $G=\mbox{the numeric gain of the transmit antenna in relation to an isotropic radiator}$

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.1047

Minimum Standard: Para. No. 24.238(b). The emission bandwidth is defined as the

width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of

which all emissions are attenuated at least 26 dB.

Method Of Measurement:

CDMA

Spectrum analyzer settings:

RBW: 30 kHz VBW: ≥ RBW Span: 5 MHz Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

GSM

RBW: 3 kHz VBW: ≥ RBW Span: 2 MHz Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

<u>NADC</u>

RBW: 1 kHz VBW: ≥ RBW Span: 1 MHz Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

NAME OF TEST: Spurious Emission at Antenna Terminals PARA. NO.: 2.1051

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's

frequency block, the power of any emission shall be attenuated below the transmitter power by at least $43 + 10 \log (P) dB$.

Method Of Measurement:

Spectrum analyzer settings:

<u>CDMA</u> <u>GSM</u>

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)

 $VBW: \ge RBW$ $VBW: \ge RBW$ Sweep: Auto

Video Avg: 6 Sweeps Video Avg: Disabled

NADC

RBW: 1 MHz (> 1 MHz from Band Edge) RBW: 3 kHz (< 1 MHz from Band Edge)

VBW: ≥ RBW Sweep: Auto

Video Avg: Disabled

To demonstrate compliance at band edges the frequency of the input signal is set to the lowest and highest assigned channel and the center frequency of the spectrum analyzer is set to the upper and lower edges of the appropriate frequency block.

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.1053

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's

frequency block, the power of any emission shall be attenuated below the transmitter power by at least $43 + 10 \log (P) dB$.

Test Method: TIA/EIA-603-1992, Section 2.2.12

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

NAME OF TEST: Frequency Stability PARA. NO.: 2.1055

Minimum Standard: Para. No. 24.235. The frequency stability shall be sufficient to

ensure that the fundamental emission stays within the authorized

frequency block.

Method Of Measurement:

Frequency Stability With Voltage Variation

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Annex B - Test Diagrams

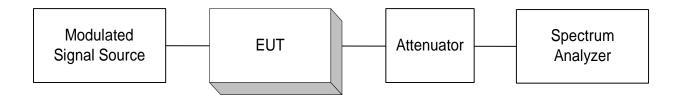
Page 46 of 49

FCC PART 24, SUBPART E BROADBAND PCS REPEATERS

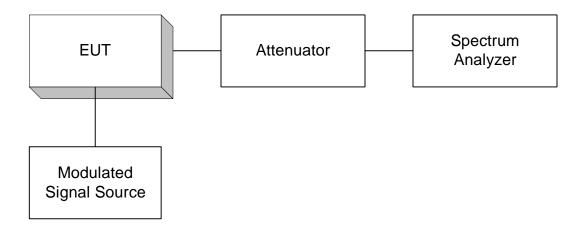
EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Para. No. 2.985 - R.F. Power Output



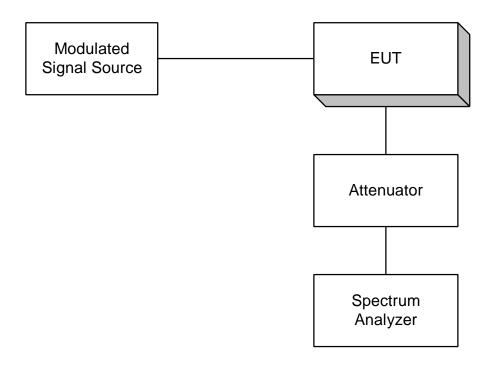
Para. No. 2.989 - Occupied Bandwidth

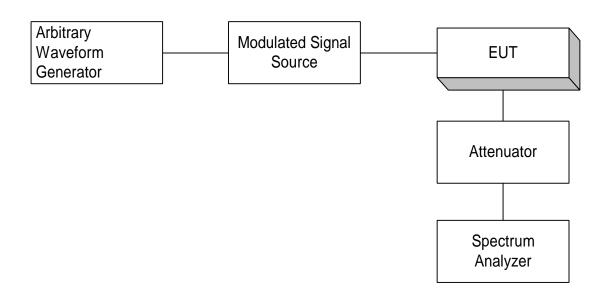


EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Para. No. 2.991 Spurious Emissions at Antenna Terminals

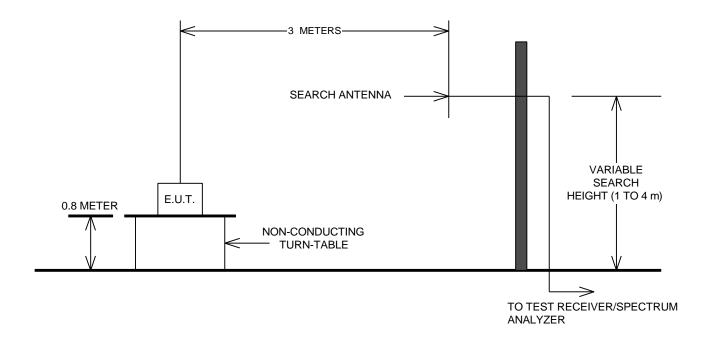




EQUIPMENT: InCell-1900

FCC ID: KUWINCELL1900 PROJECT NO.: 0L0296RUS3

Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability

