Nemko Test Report:	1L0025RUS1
Applicant:	Andrew Corporation
Equipment Under Test:	InCell Fiber Optic Distributed Antenna System Model: SMR Repeater
FCC ID:	KUWINCELLSMR
In Accordance With:	FCC Part 90, Subpart I Private Land Mobile Repeater
Tested By:	Nemko Dallas Inc. 802 N. Kealy Lewisville, TX 75057-3136
Authorized By:	Tom Tidwell, Wireless Group Manager
Date:	February, 2001
Total Number of Pages:	34

EQUIPMENT: InCell SMR Repeater

PROJECT NO.: 1L0025RUS1

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EQUIPMENT:	InCell SMR Repeater	P	PROJECT NO.:	1L0025RUS1
Section 1.	Summary of Test R	esults		
Manufacturer:	Andrew Corporation			
Model No.:	Incell SMR Repeater			
Serial No.:				
General:	All measurements are tr	aceable to nation	al standards.	
	re conducted on a sample of the eath FCC Part 90, Subpart I.	quipment for the p	ourpose of demons	strating
	New Submission		Production Unit	
	Class II Permissive Change		Pre-Production	Unit
A M P	Equipment Code			
	TIME THE THE DEPORT DEV. 1772			

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".

NVLAP LAB CODE: 100426-0

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Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	MEAS.	RESULT
RF Power Output	90.205		19.7 dBm	Complies
Audio Frequency Response	TIA EIA-603.3.2.6	N/A	N/A	N/A
Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	N/A	N/A	N/A
Modulation Limiting	TIA EIA-603.3.2.6	N/A	N/A	N/A
Occupied Bandwidth	90.210	Plots	Plots	Complies
Spurious Emissions at Antenna	90.210	Plots	Plots	Complies
Terminals				
Field Strength of Spurious	90.210	-13 dBm	> -13 dBm	Complies
Emissions				
Frequency Stability	90.213	N/A	N/A	N/A
Transient Frequency Behavior	90.214	N/A	N/A	N/A

Footnotes For N/A's:

- (1) Since the E.U.T. does not contain modulation circuitry modulation testing was not performed.
- (2) Since the E.U.T. is not a keyed carrier system, Transient Frequency Behavior was not performed.

Section 2.	General Equipme	ent Specif	ication			
Transmitter						
Supply Voltage Input:	CDU RAU	120 VAC 24 Vdc via	via power n a CDU	nains		
Frequency Range:		851-869 N	⁄ИНz			
Tunable Bands:		851-869 N	ИHz			
Type(s) of Modulation	:	F3E (Voice)	F1D	F2D	D7W (QAM)	D7W (IDEN)
Gain:		15 dB				
Maximum Input:		0 dBm				
Output Impedance:		50 Ohms				
RF Power Output (rate	ed): Voice iDEN		` '			
Operator Selection of (Operating Frequency:	Not select	able			
Power Output Adjustn	nent Capability:	Not adjust	table by use	r		
Frequency Translation	:		F1	-F1 ✓	F1-F2	N/A
Band Selection:			Soft	ware	Duplexer	Fullband

Modifications Made During Testing

None

System Description

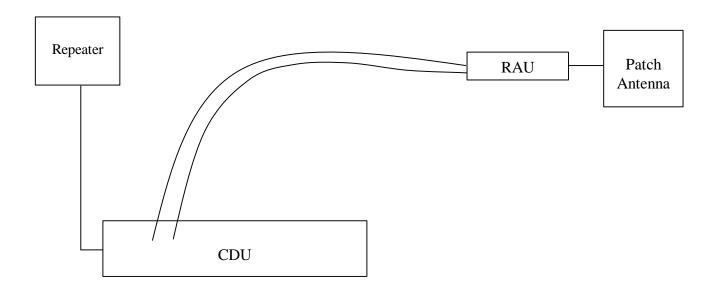
The EUT is a SMR band repeater system that uses fiber optic to distribute modulated rf signals from a base station or repeater to locations throughout a building. The system operates with a direct connection in the uplink direction.

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.
- 2) 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



Nemko Dallas, Inc

FCC PART 90, SUBPART I PRIVATE LAND MOBILE REPEATER

EQUIPMENT: InCell SMR Repeater **PROJECT NO.:** 1L0025RUS1

Section 3. RF Power Output

NAME OF TEST: RF Power Output PARA. NO.: 2.985

TESTED BY: David LightTom Tidwell & Debbie Jensen DATE: 15 Feb 2001

Test Results: Complies.

Measurement Data:

IDEN Modulation

Frequency (MHz)	Measured Power (dBm)
852	11.0
860	13.3
868	13.8

Voice Modulation

Frequency (MHz)	Measured Power (dBm)
852	19.2
860	19.7
868	19.6

Nemko Dallas, Inc

FCC PART 90, SUBPART I PRIVATE LAND MOBILE REPEATER

EQUIPMENT: InCell SMR Repeater **PROJECT NO.:** 1L0025RUS1

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.989

TESTED BY: David LightTom Tidwell & Debbie Jensen DATE:15 Feb 2001

Test Results: Complies.

Test Data: See attached graph(s).

Page 8 of 34

Test Data - Occupied Bandwidth



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Dallas Headquarters
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Lewisville, TX 75057
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Fax: (972) 436-2667

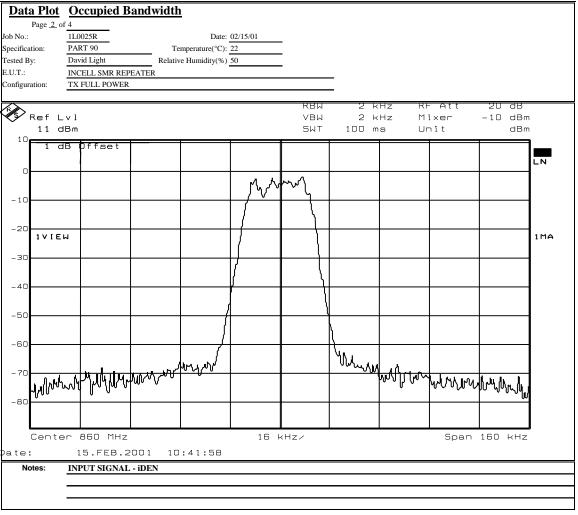
Data Plot Occupied Bandwidth Page 1 of 4 Complete Job No.: 1L0025R Date: 02/15/01 Preliminary Specification: PART 90 Temperature(°C): 22 Tested By: David Light Relative Humidity(%) 50 E.U.T.: INCELL SMR REPEATER Configuration: TX FULL POWER S02 Sample No.: Location: Lab 1 RBW: REFER TO PLOTS VBW: REFER TO PLOTS Detector Type: Peak Test Equipment Used Antenna: Directional Coupler: Pre-Amp: Cable #1: Filter: Cable #2: Receiver: 1036 Cable #3: 1475 Cable #4: Attenuator #1 Attenuator #2: Mixer: Additional equipment used: Measurement Uncert +/-3.6 dB Ref Lvl -10 dBm VBW 2 kHz Mixer dBm 30.7 dBm SWT 100 ms Unit 20.7 dB Offset 20 10 1 V I E W 1 MA - 10 -20 -30 Center 860 MHz 16 kHz/ Span 160 kHz 15.FEB.2001 10:36:02 ate: OUTPUT SIGNAL - iDEN Notes:

Test Data - Occupied Bandwidth



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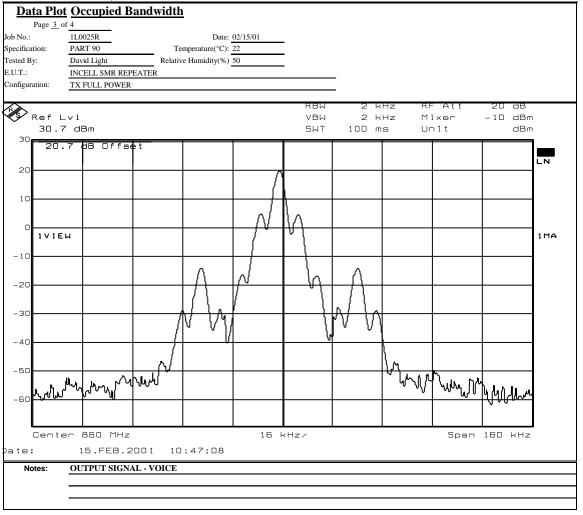


Test Data - Occupied Bandwidth



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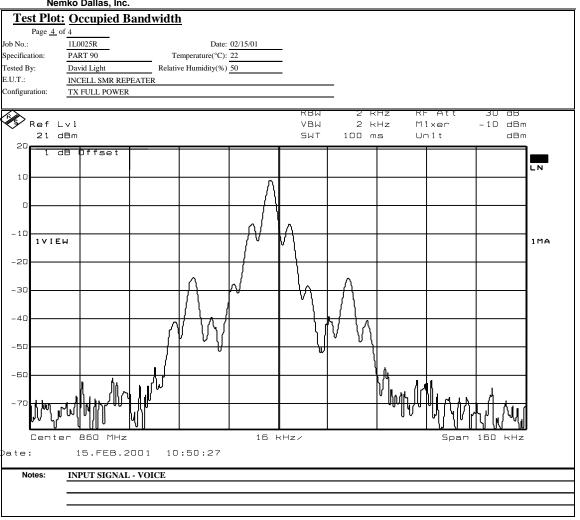


Test Data - Occupied Bandwidth



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Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals PARA. NO.: 2.991

TESTED BY: David LightTom Tidwell & Debbie Jensen DATE: 15 Feb 2001

Test Results: Complies.

Test Data: See attached graph(s).

Test Data - Spurious Emissions at Antenna Terminals



Nemko Dallas, Inc.

Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

Data Plot **Intermodulation Characteristics** Page <u>1</u> of <u>2</u> Complete Job No.: 1L0025R Date: 02/15/01 Preliminary Specification: PART 90 Temperature(°C): 22 Tested By: Relative Humidity(%) 50 David Light E.U.T.: INCELL SMR REPEATER Configuration: TX 3 SIGNALS FULL POWER Sample No.: S02 RBW: Location: Lab 1 30 kHz Peak Detector Type: VBW: 30 kHz Test Equipment Used Directional Coupler: Antenna: Pre-Amp: Cable #1: Filter: Cable #2: Cable #3: Receiver: 1036 Attenuator #1 1475 Cable #4: Attenuator #2: Mixer: Additional equipment used: +/-3.6 dB Measurement Uncertainty: Ref Lvl -38.62 dBm VBW 30 kHz Mixer -10 dBm 40.7 dBm 850.84168337 MHz SWT 56 ms Unit dBm -38.62 dBm LN 850.84168337 MHz 30 -17.19 dBm 864.86973948 MHz 20 1 V I E W 1 MA -D 1 dBm--20 -30 -50 Center 860 MHz 2 MHz/ Span 20 MHz 15.FEB.2001 11:25:24 ate: MARKER 1 INDICATES OUT OF BAND INTERMODULATION MARKER 2 INDICATES INBAND INTERMODULATION iDEN Modulation

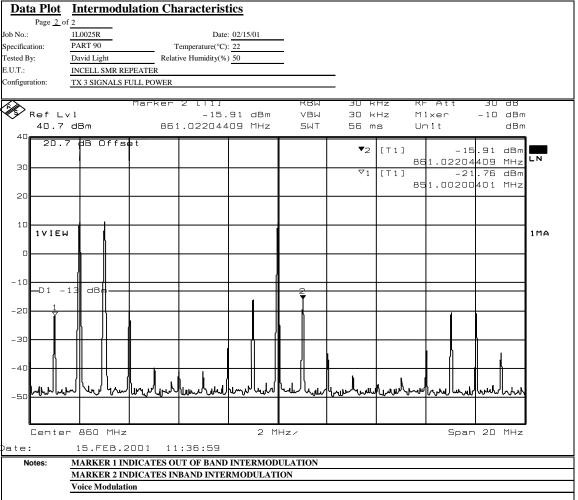
PROJECT NO.: 1L0025RUS1 **EQUIPMENT:** InCell SMR Repeater

Test Data - Spurious Emissions at Antenna Terminals



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Test Data - Spurious Emissions at Antenna Terminals



Dallas Headquarter
802 N. Kealy
Lewisville, TX 7505
Tel: (972) 436-960
Fav. (070) 400 000

Data Plot	Ant	enna Por	t Spuriou	s Emissio	<u>ons</u>							
Page <u>1</u> c	of <u>4</u>							Con	nplete	X		
b No.:	1L00	025R		Date: 0	2/15/01				ninary			
pecification:	PART	90	Tem	perature(°C): 2	2							
ested By:	David	Light		Humidity(%) 5								
.U.T.:	INCE	LL SMR REPAI										
onfiguration:	TX FU	JLL POWER										
ample No.:	S	02					•					
ocation:	La	b 1			RBW:	Refer to plots						
etector Type:	Pe	eak			VBW:	Refer to plots	•					
est Equipm	ent Us	<u>ed</u>										
ntenna:				Direct	tional Coupler:							
e-Amp:					Cable #1:	1082						
lter:					Cable #2:							
eceiver:	10	36			Cable #3:		i					
ttenuator #1	14	75			Cable #4:							
tenuator #2:					Mixer:							
ditional equip	ment us	ed:										
easurement U	ncertaint	y: +/-3.6	dB									
			Marker	2 [11]		RBM	100 k	Hz	RF At	Ī	30 aB	
§∕ Ref	$L \vee 1$			-37.	36 dBm	VBW	100 K	Hz	Mixer	-	10 dBr	m
40	.7 dl	3m	904	.749499	300 MHz	SWT	245 m	ıs	Unit		dBr	m
20	1.7	B Offs€	e t				▼ 2	[T1]		-37.3	36 dBm	n
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Notes:	MAR	KER 1 INDIO	CATES CAR	RIER								
		KER 2 INDIO										
	_	modulation										

Test Data - Spurious Emissions at Antenna Terminals



Dallas Headquarters:

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Nemko Dallas, Inc. **Data Plot** Antenna Port Spurious Emissions Page <u>2</u> of 4 1L0025R Job No.: Date: 02/15/01 Specification: PART 90 Temperature(°C): 22 David Light Tested By: Relative Humidity(%) 50 E.U.T.: INCELL SMR REPAETER Configuration: TX FULL POWER 30 dB Ref Lvl -21.46 dBm 1 MHz Mixer VBW -10 dBm 40.7 dBm 1.72144289 GHz SWT 46 ms Unit dBm 20.7 dB Offset ▼1 [T1] -21.46 dBm LN 1.72144289 GHz 30 20 10 1 V I E W 1 MA -10 -20 -30 multiment the many that we will be a second the second mullimeter the second -40 -50 Start 1 GHz 800 MHz/ Stop 9 GHz late: 15.FEB.2001 11:51:09 Notes: Voice Modulation

Test Data - Spurious Emissions at Antenna Terminals



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Nemko Dallas, Inc. **Data Plot** Antenna Port Spurious Emissions Page <u>3</u> of 4 Job No.: 1L0025R Date: 02/15/01 Specification: PART 90 Temperature(°C): 22 Tested By: David Light Relative Humidity(%) 50 E.U.T.: INCELL SMR REPAETER Configuration: TX FULL POWER кви 30 dB Ref Lvl -37.41 dBm Mixer VBW 100 kHz -10 dBm 40.7 dBm 980.56112224 MHz SWT 245 ms Unit dBm dB Offset -37.41 dBm **▼**2 [T1] 980.56112224 MHz 30 15.34 dBm [T1] 860.04008016 MHz 20 10 1 V I E W 1 MA - 1 🗆 -20 -30 -40 -50 Center 515 MHz 97 MHz/ Span 970 MHz ate: 15.FEB.2001 15:21:50 MARKER 1 INDICATES CARRIER MARKER 2 INDICATES EMISSION iDEN Modulation

Test Data - Spurious Emissions at Antenna Terminals



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Nemko Dallas, Inc.			Fax: (972) 436-2667	
est Plot: Antenna Po	rt Spurious Emissions			
Page 4 of 4				
No.: 1L0025R	Date: 02/15/01			
eification: PART 90	Temperature(°C): 22			
ed By: David Light	Relative Humidity(%) 50			
T.: <u>INCELL SMR REP.</u> figuration: TX FULL POWER	AETER			
inguiation. <u>IX FULL POWER</u>				
<u> </u>	Marker 1 [1]	KBM	1 MHZ RFAtt 3U dB	
Ref Lvl	-20.37 dBm	VBW	1 MHz Mixer -10 dBm	
40.7 dBm	1.72144289 GHz	SWT	46 ms Unit dBm	
20.7 dB Offs	se t		▼1 [T1] -20.37 dBm	
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40				
E0				
50				
Start 1 GHz	800	MHz/	Stop 9 GHz	
te: 15.FEB.	2001 15:22:52			
Notes: <u>iDEN Modulation</u>	1			

Section 6. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions PARA. NO.: 2.993

TESTED BY: David LightTom Tidwell & Debbie Jensen DATE: 16 Feb 2001

Test Results: Complies.

Test Data: See attached table.

Note: See page A5 for applicable limit.

Test Data - Radiated Emissions



Nemko Dallas, Inc.

Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

		Field Strength of S	purious Emi	ssions	
Page 1 of	<u>1</u>	_		Complete X	
Job No.:	1L0025R	Date: 2/16/01		Preliminary	
Specification:	PART 90	Temperature(°C): 22			
Tested By:	David Light	Relative Humidity(%) 50			
E.U.T.:	INCELL SMR REPEATER				
Configuration:	TX FULL POWER MID BA	ND			
Sample Number:	S02				
Location:	AC 3	RBW:	1 MHz	Measurement	
Detector Type:	Peak	VBW:	500 kHz	Distance: 3 m	
Test Equipme	ent Used				
Antenna:		Directional Coupler:			
Pre-Amp:	1016	Cable #1:	1484		
Filter:		Cable #2:	1485		
Receiver:	1464	Cable #3:			
Attenuator #1		Cable #4:			
Attenuator #2:		Mixer:			
Additional equipr	ment used:	•			
Measurement Un	+/-3.6 dB				

requency	Meter Reading	Correction Factor	Pre-Amp Gain	Substitution Antenna Gain	ERP	ERP	Polarity	Comments
(MHz)	(dBm)	(dB)	(dB)	(dBd)	(dBm)	(mW)		
1720	-46.7	29.9	32.9	6.4	-43.4	0.000046	V	
2580	-53.7	35.6	33.3	8.0	-43.5	0.000045	V	
3440	-54.8	37.1	33.6	8.1	-43.2	0.000048	V	
4300	-61.2	42.8	33.2	7.9	-43.7	0.000043	V	
5160	-62.5	40.6	32.8	9.1	-45.6	0.000027	V	NOISE FLOOR
6020	-63.7	37.9	32.0	9.5	-48.3	0.000015	V	NOISE FLOOR
6880	-66.0	38.3	32.8	10.1	-50.4	0.000009	V	NOISE FLOOR
7740	-65.5	40.4	33.4	9.4	-49.0	0.000012	V	NOISE FLOOR
8600	-63.7	40.3	34.4	9.9	-47.9	0.000016	V	NOISE FLOOR
1720	-47.0	32.7	32.9	6.4	-40.9	0.000082	Н	
2580	-55.0	34.6	33.3	8.0	-45.7	0.000027	Н	
3440	-59.3	35.8	33.6	8.1	-49.0	0.000013	Н	
4300	-63.0	35.2	33.2	7.9	-53.1	0.000005	Н	NOISE FLOOR
5160	-62.5	36.3	32.8	9.1	-50.0	0.000010	Н	NOISE FLOOR
6020	-63.7	36.6	32.0	9.5	-49.6	0.000011	Н	NOISE FLOOR
6880	-66.0	37.8	32.8	10.1	-50.8	0.000008	Н	NOISE FLOOR
7740	-65.5	39.8	33.4	9.4	-49.7	0.000011	Н	NOISE FLOOR
8600	-63.7	41.8	34.4	9.9	-46.3	0.000023	Н	NOISE FLOOR
	<u> </u>							

Photographs of Test Setup

FRONT VIEW



REAR VIEW



Nemko Dallas, Inc

FCC PART 90, SUBPART I PRIVATE LAND MOBILE REPEATER

InCell SMR Repeater **EQUIPMENT:** PROJECT NO.: 1L0025RUS1

Section 7. Frequency Stability

NAME OF TEST: Frequency Stability PARA. NO.: 2.995

TESTED BY: Tom Tidwell & Debbie Jensen DATE:

Complies/Does Not Comply. **Test Results:**

Measurement Data:

Not Applicable

Not Applicable

Section 8. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	06/14/99 2 Yr Cycle
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/02/01 2 Yr Cycle
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	05/25/00
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	05/25/00
1082	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	05/23/00
1016	AMPLIFIER	HEWLETT PACKARD 8449A	2749A00159	05/24/00
1475	20db Attenuator DC 18 Ghz	MCL Inc. BW-S20W3	NONE	CBU
993	Horn antenna	A.H. Systems SAS-200/571	XXX	07/16/99 2 Yr Cycle

Annex A - Test Methodologies

Page 25 of 34

NAME OF TEST: RF Power Output PARA. NO.: 2.985

Minimum Standard: Para. No. 90.205(a). The maximum allowable station ERP is

dependent upon the stations HAAT and required service area and will be authorized in accordance with Table 1 of 90.205(d).

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 = the numeric gain of the transmit antenna in relation to an isotropic radiator

NAME OF TEST: Spurious Emissions at Antenna Terminals PARA. NO.: 2.991

Test Method: RBW: 1% of emission bandwidth in the 0 - 1 GHz range.

1 MHz at frequencies above 1 GHz.

 $VBW: \Rightarrow RBW$

The spectrum is searched up to 10 times the fundamental frequency.

Page 27 of 34

Nemko Dallas, Inc

FCC PART 90, SUBPART I PRIVATE LAND MOBILE REPEATER

EQUIPMENT: InCell SMR Repeater **PROJECT NO.:** 1L0025RUS1

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.989

Minimum Standard: Para. No. 90.210, see table 1 below for applicable mask.

Table 1

Frequency Band (MHz)	Mask for equipment with Low Pass Filter	Mask for equipment without Low Pass Filter
Below 25	A or B	A or C
25 - 50	В	С
72 - 76	В	С
150 - 174	B, D or E	C, D or E
150 Paging only	В	С
220 - 222	F	F
421 - 512	B, D or E	C, D or E
450 paging only	В	Н
806 - 821/851 - 866	В	G
821 - 824/ 866 - 869	В	Н
896 - 901/ 935 - 940	I	J
902 - 928	K	K
929 - 930	В	G
Above 940	В	С
All other bands	В	С

Page 28 of 34

NAME OF TEST: Field Strength of Spurious PARA. NO.: 2.993

Minimum Standard: Para. No. 90.210, see table 1 for applicable mask.

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.

NAME OF TEST: Frequency Stability PARA. NO.: 2.995

Minimum Standard: Para. No. 990.213. The transmitter carrier frequency shall remain

within the assigned frequency below in ppm.

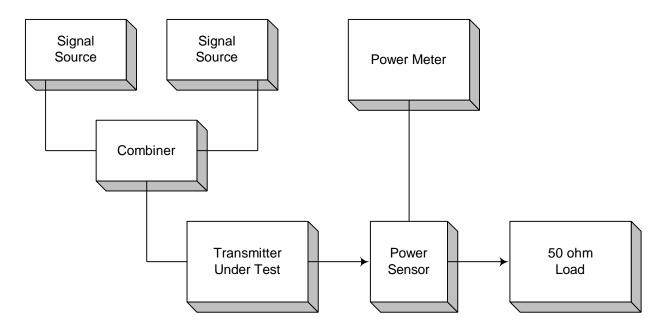
Table 2

Frequency Band	Fixed And Base	Mobile Stations		
(MHz)	Stations	> 2 Watts o/p pwr	< 2 Watts o/p pwr	
Below 25	100	100	200	
25 - 50	20	20	50	
72 - 76	5	-	50	
150 - 174	5	5	5	
220 - 222	0.1	1.5	1.5	
421 - 512	2.5	5	5	
806 - 821	1.5	2.5	2.5	
821 - 824	1.0	1.5	15	
851 - 866	1.5	2.5	2.5	
866 - 869	1.0	1.5	1.5	
869 - 901	0.1	1.5	1.5	
902 - 928	2.5	2.5	2.5	
929 - 930	1.5	-	-	
935 - 940	0.1	1.5	1.5	
1427 - 1435	300	300	300	
Above 2450	-	=	-	

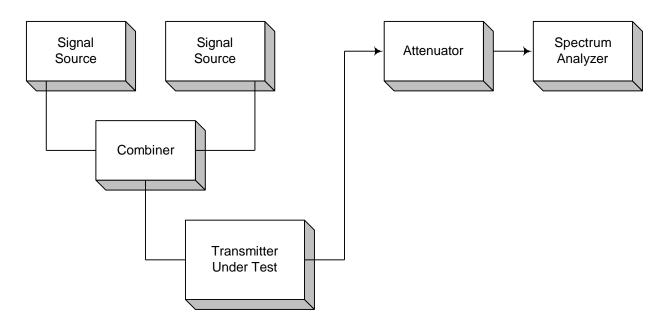
Annex B - Test Diagrams

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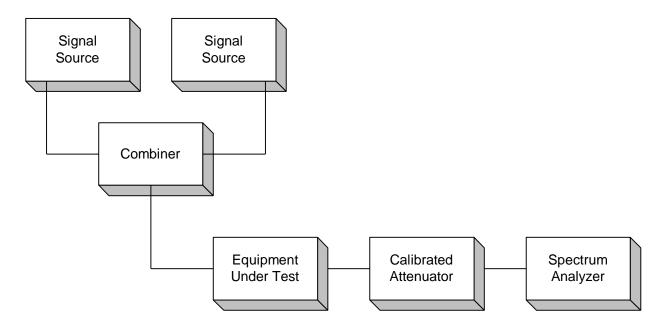
Para. No. 2.985 - R.F. Power Output



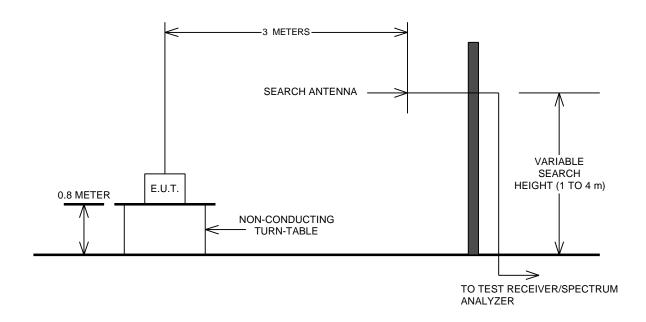
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 - Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability

