Nemko Test Report: 5L0053RUS1

Applicant:

Enfora, Inc.

Equipment Under Test: LBH0107 Tri-Band Phone (E.U.T.)

In Accordance With:

FCC Part 24, Subpart E Broadband PCS Subscriber Station

Tested By:

Nemko USA Inc. 802 N. Kealy Lewisville, TX 75057-3136

70- Jill

Authorized By:

Tom Tidwell, Frontline Manager

Date:

7 March 2005

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.	Field Strength of Spurious1	10
Section 7.	Frequency Stability 1	15
Section 8.	Test Equipment List1	17
ANNEX A - T	EST METHODOLOGIES1	8
ANNEX B - T	EST DIAGRAMS2	24

EQUIPMENT: LBH0107 Tri-Band Phone

Section 1.	Summary of Test Re	sults	
Manufacturer:	Enfora, Inc.		
Model No.:	LBH0107		
Serial No.:	None		
General:	All measurements are trac	eable to nation	al standards.
	conducted on a sample of the equ FCC Part 24, Subpart E.	ipment for the p	purpose of demonstrating
N	ew Submission		Production Unit
C	ass II Permissive Change	\square	Pre-Production Unit
Т	HIS TEST REPORT RELATES ON	ILY TO THE IT	EM(S) TESTED.
THE FOLLOWI	NG DEVIATIONS FROM, ADDITI SPECIFICATIONS HA See " Summary o	VE BEEN MAD	
Nemko USA Inc.	authorizes the above named company to entirety and for use by the con		

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko USA Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

This report applies only to the items tested.

TEST

in its

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
RF Power Output	24.232	Complies
Occupied Bandwidth	24.238	Complies
Spurious Emissions at Antenna Terminals	24.238(a)	NA
Field Strength of Spurious Emissions	24.238(a)	Complies
Frequency Stability	24.235	Complies

Footnotes:

The phone has an integral antenna.

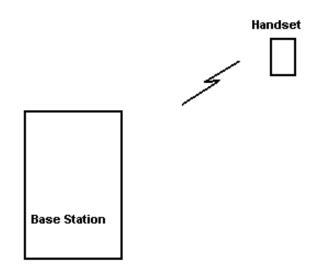
Section 2. General Equipment Specification

Supply Voltage Input:	3.6 Vdc Battery		
Frequency Bands:	Block C : Block D : Block E :	1850 – 1865 MHz 1865 – 1870 MHz 1870 – 1885 MHz 1885 – 1890 MHz 1890 – 1895 MHz 1895 – 1910 MHz	
Type of Modulation and Designator:	CDMA (F9W)	GSM (GXW)	NADC (DXW)
Emission Designator:	300KGXW		
Necessary Bandwidth:	300 kHz		
Output Impedance:	50 ohms		
RF Output (Rated):		0.5 W eirp	

System Description

The phone is a tri-band GSM phone operating in the 900 MHz GSM band, 1800 DCS band and 1900 PCS band.

System Diagram



Section 3. RF Power Output

NAME OF TEST: RF Power Output

TESTED BY: David Light

DATE: 3-3-05

PARA. NO.: 2.1046

Test Results: Complies.

Measurement Data:

Frequency (MHz)	Output Power EIRP (Watts)	Output Power EIRP (dBm)
1850.2	0.275	24.4
1880.2	0.363	25.6
1909.8	0.490	26.9

Note: Measurements were done radiated using the signal substitution method of measurement.

Equipment Used: 1304-1036-1484-1485

Measurement Uncertainty: +/- 1.7 dB

Temperature: 22 °C

Relative Humidity: 45 %

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth

TESTED BY: David Light

DATE: 11/10/2004

PARA. NO.: 2.1047

Test Results: Complies.

Test Data: See attached plots.

Test Data – Occupied Bandwidth

Nemko Dallas, Inc.	mko		Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667
Data Plot	Occupied Ba	andwidth	
Page 1 of 1 Job No.: 4L0655R Specification: PT24 Tested By: David Light E.U.T.: Dual Band Phone Configuration: TX	Date: 11/1/2004 Temperature(°C): 19 Relative Humidity(%) 40		
Ref Lvl	Marker 1 [11] -46.65 dBm	КВМ КВМ	3 KHZ RFAtt 30 dB 3 kHz
0 dBm	1.88006072 GHz	SWT	280 ms Unit dBm
- 10			▼1 [T1] -46.65 dBm 1.88006072 GHz △1 [11] -0.75 dB 290.58116233 kHz
-20 -30 1VIEW			1110
-40	1		
-60			
-80 Wumhhumuh			
-90			
-100 L Center 1.8802 Date: 10.NOV		kHz∕	Span 1 MHz
Notes: 20 dB Bandwidt	h = 300 kHz		

Section 5. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.1053
TESTED BY: David Light	DATE: 3/3/05

Test Results: Complies.

Test Data:

See attached table.

Test Data - Radiated Emissions

Nen	Nemko Dallas, Inc.								ters: 5057 600 667
				EI	RP				
Page <u>1</u> o	of <u>1</u>						Complete	Х	
Job No.:	5L0053		Date:	3/3/05			Preliminary	Х	
Specification:	PT24		Temperature(°C):	22					
Tested By:	David Light	R	elative Humidity(%)	45					
E.U.T.:	Tri-band pho	one				_			
Configuration:	TX					_			
Sample No:	1								
Location:	AC 3			RBW:	1 MHz	_	Measurement		
Detector Type:	Peak			VBW:	1 MHz	-	Distance:	3	m
Test Equipm	ent Used								
Antenna:	1304		D	virectional Coupler:					
Pre-Amp:	1016			Cable #1:	1484	-			
Filter:	1482			Cable #2:		-			
Receiver:	1036			Cable #3:		•			
Attenuator #1				Cable #4:		-			
Attenuator #2:				Mixer:		-			
Additional equip	oment used:					_			
Measurement U	ncertainty:	+/-1.7 dB				-			
Frequency	Meter	Correction	Pre-Amp	Substitution		EIRP	EIRP	Polarity	Comments
	Reading	Factor	Gain	Antenna Gain					
(MHz)	(dBm)	(dB)	(dB)	(dBi)		(dBm)	(mW)		
3760.4	-80.0	34.3	0	10.1		-35.5	0.0003	Н	
5640.6	-61.0	36.0	32	11.2		-45.8	0.0000	Н	
7520.8	-55.0	39.8	32	11.6		-35.6	0.0003	Н	
9401	-60.0	41.4	34	12.2		-40.4	0.0001	Н	
44004 0	-59.0	44.4	34.6	13.2		-36.0	0.0003	Н	
11281.2	37.0								
13161.4	-59.0	47.5	34	13.3		-32.2	0.0006	Н	
13161.4 15041.6	-59.0 -67.0	47.5 47.1	32	13.3 13.5		-38.4	0.0001	Н	
13161.4 15041.6 16921.8	-59.0 -67.0 -67.0	47.5 47.1 46.1	32 33	13.3 13.5 15.2		-38.4 -38.7	0.0001 0.0001	H H	
13161.4 15041.6 16921.8 3760.4	-59.0 -67.0 -67.0 -76.0	47.5 47.1 46.1 40.4	32 33 0	13.3 13.5 15.2 10.1		-38.4 -38.7 -25.5	0.0001 0.0001 0.0028	H H V	
13161.4 15041.6 16921.8 3760.4 5640.6	-59.0 -67.0 -67.0 -76.0 -63.0	47.5 47.1 46.1 40.4 38.5	32 33 0 32	13.3 13.5 15.2 10.1 11.2		-38.4 -38.7 -25.5 -45.3	0.0001 0.0001 0.0028 0.0000	H H V V	
13161.4 15041.6 16921.8 3760.4 5640.6 7520.8	-59.0 -67.0 -67.0 -76.0 -63.0 -56.0	47.5 47.1 46.1 40.4 38.5 40.4	32 33 0 32 32	13.3 13.5 15.2 10.1 11.2 11.6		-38.4 -38.7 -25.5 -45.3 -36.0	0.0001 0.0001 0.0028 0.0000 0.0003	H H V V V	
13161.4 15041.6 16921.8 3760.4 5640.6 7520.8 9401	-59.0 -67.0 -67.0 -76.0 -63.0 -56.0 -61.0	47.5 47.1 46.1 40.4 38.5 40.4 39.3	32 33 0 32 32 34	13.3 13.5 15.2 10.1 11.2 11.6 12.2		-38.4 -38.7 -25.5 -45.3 -36.0 -43.5	0.0001 0.0001 0.0028 0.0000 0.0003 0.0000	H H V V V V	
13161.4 15041.6 16921.8 3760.4 5640.6 7520.8 9401 11281.2	-59.0 -67.0 -67.0 -76.0 -63.0 -56.0 -61.0 -60.0	47.5 47.1 46.1 38.5 40.4 39.3 42.0	32 33 0 32 32 34 34.6	13.3 13.5 15.2 10.1 11.2 11.6 12.2 13.2		-38.4 -38.7 -25.5 -45.3 -36.0 -43.5 -39.4	0.0001 0.0001 0.0028 0.0000 0.0003 0.0000 0.0000	H H V V V V V	
13161.4 15041.6 16921.8 3760.4 5640.6 7520.8 9401 11281.2 13161.4	-59.0 -67.0 -67.0 -76.0 -63.0 -56.0 -61.0 -60.0 -57.0	47.5 47.1 46.1 38.5 40.4 39.3 42.0 44.8	32 33 0 32 32 34 34 34.6 34	13.3 13.5 15.2 10.1 11.2 11.6 12.2 13.2 13.3		-38.4 -38.7 -25.5 -45.3 -36.0 -43.5 -39.4 -32.9	0.0001 0.0001 0.0028 0.0000 0.0003 0.0000 0.0001 0.0005	H H V V V V V V V	
13161.4 15041.6 16921.8 3760.4 5640.6 7520.8 9401 11281.2 13161.4 15041.6	-59.0 -67.0 -67.0 -76.0 -63.0 -56.0 -61.0 -60.0 -57.0 -66.0	47.5 47.1 46.1 38.5 40.4 39.3 42.0 44.8 46.5	32 33 0 32 32 34 34.6 34 34 32	13.3 13.5 15.2 10.1 11.2 11.6 12.2 13.3 13.5		-38.4 -38.7 -25.5 -45.3 -36.0 -43.5 -39.4 -32.9 -38.0	0.0001 0.0001 0.0028 0.0000 0.0003 0.0000 0.0001 0.0005 0.0002	H H V V V V V V V V	
13161.4 15041.6 16921.8 3760.4 5640.6 7520.8 9401 11281.2 13161.4	-59.0 -67.0 -67.0 -76.0 -63.0 -56.0 -61.0 -60.0 -57.0	47.5 47.1 46.1 38.5 40.4 39.3 42.0 44.8	32 33 0 32 32 34 34 34.6 34	13.3 13.5 15.2 10.1 11.2 11.6 12.2 13.2 13.3		-38.4 -38.7 -25.5 -45.3 -36.0 -43.5 -39.4 -32.9	0.0001 0.0001 0.0028 0.0000 0.0003 0.0000 0.0001 0.0005	H H V V V V V V V	

The device was tested on three orthogonal axis' Worse case data is presented. The device was tested from 30 MHz to the 10^{th} harmonic of the carrier.

Bandedge Plots

								s Headquarte	rs:	
INT		emk						802 N. Kealy	7	
I U N	/ \ \ [+		(•)					isville, TX 7505		
								(972) 436-960		
New							Fax	(972) 436-266	57	
	nko Dallas, Inc									
<u>Data Plot</u>		<u>Spuri</u>	ous Emis	sions at A	Antenna '	<u>[erminals]</u>				
Page 1 of	1 <u>2</u>						Complete Preliminary:	X		
b No.:	5L0052		Date:	3/4/2005			Preliminary:			
ecification:	PT24	Tempe	rature(°C):	20						
sted By:	David Light	Relative H	umidity(%)	50						
J.T.:	Triband phone									
nfiguration:	TX									
mple Number:	1									
cation:	AC 3			RBW: 3	kHz		Measurement			
tector Type:	Peak			VBW: 3	kHz		Distance:	3 m		
est Equipmo	ent Used									
itenna:	1304		Directio	onal Coupler:						
e-Amp:				Cable #1:	1485					
ter:				Cable #2:	1485					
ceiver:	1036			Cable #3:						
tenuator #1				Cable #4:						
enuator #2:				Mixer:						
lditional equip										
easurement Un	certainty: +/-1	.7 dB								
		Marker	1 [T1]		RBW	З К	Hz RF	Att	20 dB	
S Ref	Lv1		-21.	32 dBm	VВЫ	ЗК	Hz			
- 1 0	dBm	1	.850254	51 GHz	SWT	280 m	is Ur	nit	dBr	n
- 10										n
						▼1	[T1]	-21	.32 dBm	A
-20						1.6.	1	1.85025	451 GHz	
						a farthe	mente.			1
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-30					M					1
					N			کر ا		
-40								<u> </u>		-
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-01	-51.3 dBr	n								
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-60				N					- Vrg	-
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-80		mallement	walk -							1
م المح	methynewood	mallher								
-90	-				I	<u> </u>				1
100										
	er 1.85 0			100		1	1	Coo	n 1 Mu-	1
				100	kHz∕			Spai	n 1 MHz	
ate:	04.MAR	.2005 11	:57:01							
Notes:		ken radiated. Dis		51.3 dBm rep	resents -13 dH	Bm EIRP as ta	ken using the			
	substitution met	hod of measurem	ent.							

FCC PART 24, SUBPART E BROADBAND PCS SUBSCRIBER STATION **Test Report No.: 5L0053RUS1**

Bandedge Plots

	Nemko Dallas, Inc.							Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667			
Specification: P1 Tested By: Da	.0052 '24 ivid Light iband phone X	Temp	Date: 3/4 erature(°C): 20 umidity(%) 50		ntenna T	erminals					
Ref L -10 dl			1 [11] -76. .909500	39 dBm 00 GHz	КВШ VВШ SWT	3 k 3 k 280 m	Hz	RF Att Unit	2U dB	1	
-10 -20 -30 -40 1VIEL -50 D1 - -60 -70 -80 -90 -100										1MA	
-110 Cente Date:	r 1.91 GH 04.MAR.2		:58:27	100	kHz∕			Spa	an 1 MHz	J	
Notes: M	leasurement taken	n radiated. Dis	play line at -5	51.3 dBm repr	esents -13 dB	m EIRP as ta	ken using t	he			

Photographs of Test Setup



Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 24.235
TESTED BY: David Light	DATE: 11/12/04

Test Results: Complies.

Test Data	a – Frequency S	Stabili	ty						
			-		Dall	as Headqua	rters:		
	802 N. Kealy								
802 N. Kealy Lewisville, TX 75057									
					Tel	: (972) 436-9	9600		
Nei	mko Dallas, Inc.				Fax	k: (972) 436-2	2667		
			Freque	ency Stabili	ty				
Page 1 of	1 <u>1</u>								
Job No.:	4L0655R		Date:	11/12/2004					
Specification:	PT24	Temp	perature(°C):	22					
Tested By:	David Light	Relative I	Humidity(%)	50					
E.U.T.:	DUAL BAND PHONE								
Configuration:	TX								
Sample Number:	1		_						
		<u>Test Equi</u>	pment Used						
Antenna:	1304		Direc	ctional Coupler:					
Pre-Amp:				Cable #1:	1629				
Filter:				Cable #2:					
Receiver:	1026			Thermometer:	619				
Attenuator #1									
Attenuator #2:									
Measurement	1x10 ⁻¹⁷ ppm	Sta	n dand Taa	• Enganger on	1000 /	67200	MHz		
Uncertainty:	TXTO ppin	Sta	nuaru res	t Frequency	1000.4	267300			
Temp (^o C)	Measured	Rho	Test	Freqeuncy	Limit	Error			
	Frequency (MHz)		Voltage	Error (Hz)	(+/-Hz)	(ppm)	Comment		
20	1880.267300	NA	3.6	0	4700.7	0	Fully charged battery		
20	1880.268120	NA	4.2	820	4700.7	0.4	Connected to charger		
20	1880.267750	NA	3.0	450	4700.7	0.2	Battery cutoff		
50	1880.266894	NA		-406	4700.7	-0.2			
40	1880.266894	NA		-406	4700.7	-0.2			
30	1880.268419	NA		1119	4700.7	0.6			
10	1880.270808	NIA		2500	4700 7	1.0			
10		NA		3508	4700.7	1.9			
0 -10	1880.270500 1880.269165	NA NA		3200	4700.7	1.7			
_	1880.270700			1865	4700.7	1.0			
-20	1880.267600	NA		3400	4700.7	1.8			
-30		NA		300	4700.7	0.2	<u> </u>		
Notes:									
	L								

Section 8. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number		
	<u></u>				
1629	CABLE, 6 ft	MEGAPHASE 10311 1GVT4	N/A	CBU	N/A
1026	FREQUENCY COUNTER	HEWLETT PACKARD 5350B	8232A01493	01/23/04	01/22/05
283	Environmental Chamber with controller # 1189006	ENVIROTRONICS SH27 & 2030-22844	129010083	04/22/04	04/21/05
619	THERMOMETER	FLUKE 51	4520028	09/16/04	09/16/05
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	03/22/04	03/23/06
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	08/26/04	08/26/05
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	08/02/04	08/02/05
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	11/12/04	11/12/05
1481	Microwave Highpass Filter	K & L 3DH1-2000/T8000-0/0	4	Cal B4 Use	N/A
1482	Band Pass Filter	K & L 11SH10-4000/T12000-0/0	2	Cal B4 Use	N/A
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	07/23/04	07/23/05
791	PREAMP, 25dB	ICC LNA25	398	11/12/04	11/12/05
1983	CABLE	KTL Site A OATS	N/A	03/11/04	03/11/05
760	Antenna biconical	Electro Metrics MFC-25	477	06/22/04	06/22/05

EQUIPMENT: LBH0107 Tri-Band Phone

ANNEX A - TEST METHODOLOGIES

FCC PART 24, SUBPART E BROADBAND PCS SUBSCRIBER STATION **Test Report No.: 5L0053RUS1**

NAME OF TEST: RF Power Output

PARA. NO.: 2.1046

Minimum Standard:Para. No.24.232. Base stations are limited to 1640 watts peakE.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: CDMA Per ANSI/J-STD-008 TDMA Per ANSI/J-STD-010 PCS 1900 Per ANSI/J-STD-007

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter or a spectrum analyzer.

Integral Antenna:

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.

EQUIPMENT: LBH0107 Tri-Band Phone

FCC PART 24, SUBPART E BROADBAND PCS SUBSCRIBER STATION **Test Report No.: 5L0053RUS1**

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 2.1049

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 Per ANSI/J-STD-008

Spectrum analyzer settings: RBW: 30 kHz VBW: ≥ RBW Span: 5 MHz Sweep: Auto

GSM Per ANSI/J-STD-007

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

NADC Per IS-136

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

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:

CDMA Per ANSI/J-STD-008

RBW: 1 MHz (> 1 MHz from Band Edge) RBW: 20 kHz (< 1MHz from Band Edge) VBW: ≥ RBW Sweep: Auto Video Avg: 6 Sweeps

NADC Per IS-136

RBW: 1 MHz (> 1 MHz from Band Edge) RBW: 1 kHz (< 1 MHz from Band Edge) VBW: ≥ RBW Sweep: Auto Video Avg: Disabled

GSM Per ANSI/J-STD-007

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.

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.

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: CDMA Per ANSI/J-STD-008 TDMA Per ANSI/J-STD-007 NADC Per IS-136

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. 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.

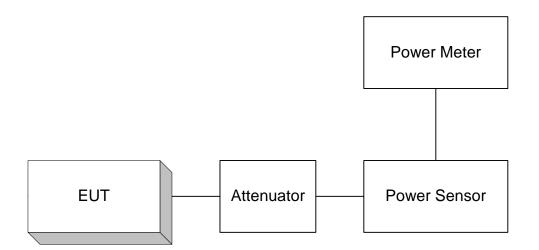
Digitally Modulated Signals

Equipment that produces a digitally modulated carrier is tested using a vector modulation analyzer. Frequency accuracy and rho are measured over the specified environmental extremes.

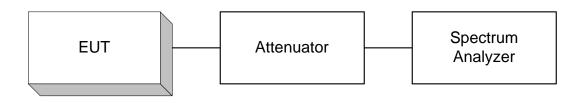
EQUIPMENT: LBH0107 Tri-Band Phone

ANNEX B - TEST DIAGRAMS

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

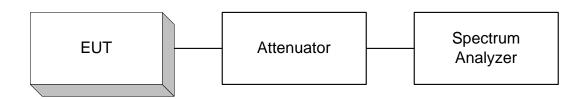


Para. No. 2.989 - Occupied Bandwidth

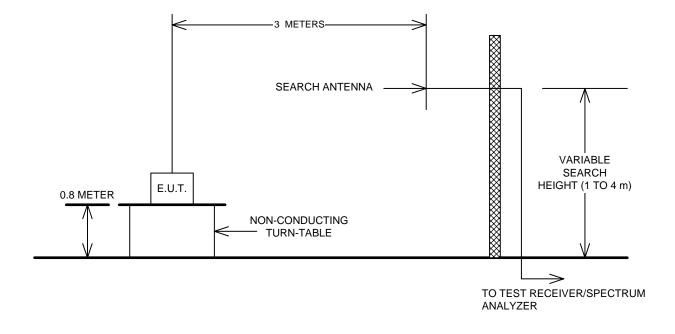


EQUIPMENT: LBH0107 Tri-Band Phone

Para. No. 2.991 Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability

EQUIPMENT: LBH0107 Tri-Band Phone

