Nemko Test Report:	4L0008RUS2
Applicant:	Enfora Inc.
Equipment Under Test: (E.U.T.)	Small Portfolio Quad Band Radio with GSM0108 Radio Module
In Accordance With:	FCC Part 24, Subpart E Broadband PCS Subscriber Station
Tested By:	Nemko USA Inc. 802 N. Kealy Lewisville, TX 75057-3136
Authorized By:	Dance Cl

David Light, Production Manager

Date:

1/23/04

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Section 1.		Summary of Test Results		
Manufacturer:		Enfora Inc		
Model No.:		GSM3208		
Serial No.:		None		
General:		All measurements are traceable to	nation	al standards.
		lucted on a sample of the equipment f Part 24, Subpart E.	for the p	urpose of demonstrating
\boxtimes	New S	ubmission		Production Unit
	Class II Permissive Change		\square	Pre-Production Unit
	THIS	TEST REPORT RELATES ONLY TO	THE ITE	M(S) TESTED.
THE FOLLOV	WING E	DEVIATIONS FROM, ADDITIONS TO SPECIFICATIONS HAVE BEE See " Summary of Test Data'	N MAD	

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This report applies only to the items tested.

Summary Of Test Data

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

Footnotes:

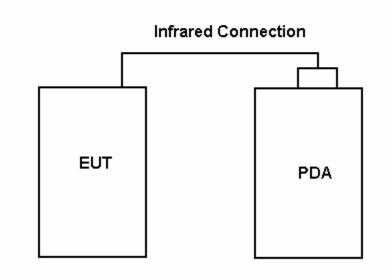
Section 2. General Equipment Specification

Supply Voltage Input:			
Frequency Bands:	1850 to 1910 MHz		
Type of Modulation and Designator:	CDMA (G7W)	GSM (GXW)	NADC (DXW)
Necessary Bandwidth:	270 kHz		
Emission Designator:	270K0GXW		
Output Impedance:	50 ohms		

System Description

This is a wireless modem for a PDA that communicates via infrared connection.

System Diagram



Section 3. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.1053
TESTED BY: Art Ruvalcaba	DATE: 1/19/04

Test Results: Complies.

Test Data:

See attached table.

FCC PART 24, SUBPART E BROADBAND PCS SUBSCRIBER STATION PROJECT NO.: 4L0008RUS2

Test Data - Radiated Emissions

) N mko Dalla:		nko				Lew Tel:	as Headquar 802 N. Kealy visville, TX 75 : (972) 436-9 (: (972) 436-2	y 5057 9600
		<u>-, -</u>	I	EIRP Subs	titution	Method			
Page <u>1</u> c	of <u>1</u>		-					X	
ob No.:	4L0008		Date	: 1/19/04			Preliminary		-
pecification:	Pt 24		Temperature(°C):	23					-
ested By:	Art Ruvalcat	Ja	Relative Humidity(%)	41					
.U.T.:	GSM3208					_			
onfiguration:	Upright (Wo	rst case)				_			
ample No:	1								
ocation:	AC 3	-		RBW:	1 MHz	-	Measurement		
etector Type:	Peak			VBW:	1 MHz	-	Distance:	3	m
est Equipr	nent Used								
ntenna:	1306		,	Directional Coupler:					
re-Amp:				Cable #1:	1484	-			
ilter:				Cable #2:	1485	-			
eceiver:	1464			Cable #3:		-			
ttenuator #1		_		Cable #4:		_			
ttenuator #2:									
dditional equip	ment used:					_			
leasurement Ur	icertainty:	+/-3.6 dB	-						
Frequency	Meter	Correction	Pre-Amp	Substitution		EIRP	EIRP	Polarity	Comments
	Reading	Factor	Gain	Antenna Gain					
	(10)			(10)		(10)	(
(MHz)	(dBm)	(dB)	(dB)	(dBi)		(dBm)	(mW)		
3760.44	-70.8	35.5	0	10.7	-13	-24.6	0.0035	<u>н</u>	
5640.66	-45.2	33.3	33	11.4	-13	-24.0	0.0035	H H	<u> </u>
7520.87	-43.2	41.5	32.5	11.4	-13	-28.9	0.0013	н Н	NF
9400.82	-46.2	42.3	34.6	11.5	-13	-26.7	0.0013	Н	NF
11280.97	-45.8	47.0	34.6	12.5	-13	-20.7	0.0021	Н	NF
13161.22	-54.5	47.8	35.3	11.9	-13	-30.1	0.0002	Н	NF
15041.47	-60.8	47.7	32.8	12.8	-13	-33.2	0.0005	Н	NF
16921.72	-61.5	49.3	33.3	14.5	-13	-31.0	0.0008	H	NF
	-		+	1		-	-		
					·		*		
						<u> </u>		ļ	
2760 44	69.7	43.2		10.7	12	14.6	0.0344	V	
3760.44	-68.7	43.3	0	10.7	-13	-14.6	0.0344	V	
5640.66	-44.2	39.8	33	11.4	-13	-25.9	0.0025	V	
5640.66 7520.87	-44.2 -50.7	39.8 41.8	33 32.5	11.4 11.3	-13 -13	-25.9 -30.0	0.0025 0.0010	V V	NF
5640.66 7520.87 9400.82	-44.2 -50.7 -49.8	39.8 41.8 41.3	33 32.5 34.6	11.4 11.3 11.7	-13 -13 -13	-25.9 -30.0 -31.4	0.0025 0.0010 0.0007	V V V	NF
5640.66 7520.87 9400.82 11280.97	-44.2 -50.7 -49.8 -45.2	39.8 41.8 41.3 43.7	33 32.5 34.6 34.6	11.4 11.3 11.7 12.5	-13 -13 -13 -13	-25.9 -30.0 -31.4 -23.6	0.0025 0.0010 0.0007 0.0044	V V V V	NF NF
5640.66 7520.87 9400.82 11280.97 13161.22	-44.2 -50.7 -49.8 -45.2 -53.7	39.8 41.8 41.3 43.7 45.8	33 32.5 34.6 34.6 35.3	11.4 11.3 11.7 12.5 11.9	-13 -13 -13 -13 -13	-25.9 -30.0 -31.4 -23.6 -31.2	0.0025 0.0010 0.0007 0.0044 0.0008	V V V V V	NF NF NF
5640.66 7520.87 9400.82 11280.97 13161.22 15041.47	-44.2 -50.7 -49.8 -45.2 -53.7 -62.3	39.8 41.8 41.3 43.7 45.8 45.2	33 32.5 34.6 34.6 35.3 32.8	11.4 11.3 11.7 12.5 11.9 12.8	-13 -13 -13 -13 -13 -13 -13	-25.9 -30.0 -31.4 -23.6 -31.2 -37.2	0.0025 0.0010 0.0007 0.0044 0.0008 0.0002	V V V V V V	NF NF NF NF
5640.66 7520.87 9400.82 11280.97 13161.22	-44.2 -50.7 -49.8 -45.2 -53.7	39.8 41.8 41.3 43.7 45.8	33 32.5 34.6 34.6 35.3	11.4 11.3 11.7 12.5 11.9	-13 -13 -13 -13 -13	-25.9 -30.0 -31.4 -23.6 -31.2	0.0025 0.0010 0.0007 0.0044 0.0008	V V V V V	NF NF NF

Photographs of Test Setup

On End Position (AS TESTED WORST CASE)



Nemko USA, Dallas Facility

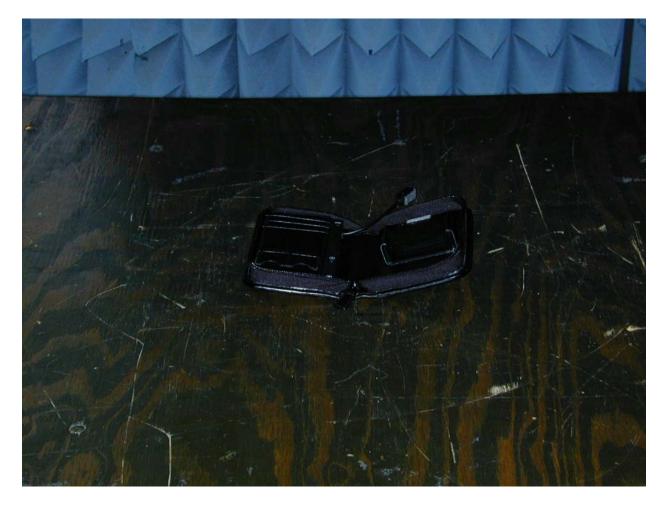
EQUIPMENT: GSM3208

FCC PART 24, SUBPART E BROADBAND PCS SUBSCRIBER STATION PROJECT NO.: 4L0008RUS2

On Edge Position



Flat Position



Section 4. Test Equipment List

Asset #	Manufacturer	Model #	S/N	Cal Date	Cal Due
1464	Hewlett Packard	8563E	3551A04428	2/11/03	2/11/04
	Spectrum Analyzer				
1016	Hewlett Packard Pre	8449A	2749A00159	8/23/03	8/23/04
	Amp				
1033	EMCO Horn	3115	8812-3035	9/22/03	9/22/04
	Antenna				
1482	K&L Filter	N/A	2	N/A	N/A
1481	K&L Filter	N/A	4	N/A	N/A

ANNEX A - TEST METHODOLOGIES

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.

ANNEX B - TEST DIAGRAMS

Para. No. 2.993 - Field Strength of Spurious Radiation

