

PCTEST Engineering Laboratory, Inc.

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CERTIFICATE OF COMPLIANCE FCC Part 22 Certification

GIGA TELECOM, Inc.

(135-091)#156-3, Sewha Bldg. 4F, Samsung-Dong

Kangnam-Gu, Seoul, KOREA

Attn: M. J. Woo President Dates of Tests: Mar. 8-9, 2001 Test Report S/N: 22.210309131.PJR

Test Site: PCTEST Lab, Columbia, MD USA

FCC ID

PJRGDM-100

APPLICANT

GIGA Telecom, Inc.

Classification: Non-Broadcast Transmitter held to ear (TNE)

FCC Rule Part(s): §22(H), §22.901(d), §2

EUT Type: Dual-Mode Cellular Phone (AMPS/CDMA)

Trade Name/Model(s): GIGA GDM-100

Tx Frequency Range: 824.04 ~ 848.97MHz (AMPS) / 824.70 ~ 848.31 MHz (CDMA)
Rx Frequency Range: 869.04 ~ 893.31MHz (AMPS) / 869.70 ~ 893.31 MHz (CDMA)

Max. RF Output Power: 0.461W ERP AMPS (26.633 dBm) / 0.322W ERP CDMA (25.083 dBm) Max. SAR Measurement: 1.3512 mW/g AMPS Head SAR; 1.1173 mW/g CDMA Head SAR;

0.6940 mW/g AMPS Body SAR; 0.5541 mW/g CDMA Body SAR

Frequency Tolerance: 0.00025% (2.5 ppm)

Emission Designators: 40K0F8W, 40K0F1D, 1M25F9W

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

Randy Ortanez President





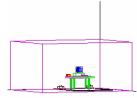


FCC Part 22 Certification

TABLE OF CONTENTS

ATTACHMENT A:	COVER LETTER(S)	
ATTACHMENT B:	ATTESTATION STATEMENT(S)	
ATTACHMENT C:	TEST REPORT	
1.1 SCOPE		1
2.1 INTRODUC	CTION	2
3.1 INSERTS F	PER §2.1033(d)	3
4.1 DESCRIPT	ION OF TESTS	4-6
5.1 EFFECTIVE	E RADIATED POWER OUTPUT	7-8
6.1 RADIATED	MEASUREMENTS	9-14
7.1 FREQUEN	CY STABILITY	15-16
8.1 PLOTS OF	EMISSIONS	17
9.1 LIST OF TI	EST EQUIPMENT	18
10.1 SAMPLE	CALCULATIONS	19
11.1 CONCLU	SION	20
ATTACHMENT D:	TEST PLOTS	
ATTACHMENT E:	FCC ID LABEL & LOCATION	
ATTACHMENT F:	TEST SETUP PHOTOGRAPHS	
ATTACHMENT G:	EXTERNAL PHOTOGRAPHS	
ATTACHMENT H:	INTERNAL PHOTOGRAPHS	
ATTACHMENT I:	BLOCK DIAGRAM(S)	
ATTACHMENT J:	CIRCUIT DIAGRAMS & DESCRIPTION	
ATTACHMENT K:	PARTS LIST/TUNE UP PROCEDURE	
ATTACHMENT L:	OPERATIONAL DESCRIPTION	
ATTACHMENT M:	USER'S MANUAL	
ATTACHMENT N:	SAR MEASUREMENT REPORT	
ATTACHMENT O:	SAR TEST DATA	
ATTACHMENT P:	SAR TEST SETUP PHOTOGRAPHS	

MEASUREMENT REPORT



1.1 Scope



Measurement and determination of electromagnetic emissions (EME) of rautofrequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

§2.1033 General Information

Applicant: GIGA Telecom, Inc.

Address: (135-091)#156-3, Sewha Bldg. 4F, Samsung-Dong

Kangnam-Gu, Seoul, Korea

Attention: M. J. Woo

President

FCC ID: PJRGDM-100

Trade Name(s): GIGA
 Model(s): GDM-100

Quantity: Quantity production is planned
 Emission Designator: 40K0F8W, 40K0F1D, 1M25F9W

Tx Freq. Range: 824.04 – 848.97 MHz (AMPS) / 824.70 ~ 848.31 (CDMA)
 Rx Freq. Range: 869.04 – 893.31 MHz (AMPS) / 869.70 ~ 893.31 (CDMA)

Equipment Class: Non-Broadcast Transmitter Held to Ear (TNE)

• Equipment Type: Dual-Mode Cellular Phone

Modulation(s):
 AMPS / CDMA

• Frequency Tolerance: ± 0.00025% (2.5 ppm)

Max. RF Output Power: 0.461W ERP AMPS (26.633 dBm) / 0.322W ERP CDMA (25.083dBm)

Max. SAR Measurement: 1.3512 mW/g AMPS Head SAR; 1.1173 mW/g CDMA Head SAR;

0.6940 mW/g AMPS Body SAR; 0.5541 mW/g CDMA Body SAR

• Antenna Type: Base Helical Retractable

[AUDEN Part No.: LCR-800)

FCC Rule Part(s): §22(H), §22.901(d), §2

• Battery Pack: 3.7 VDC

• Dates of Tests: March 8-9, 2001

Place of Tests:
 PCTEST Lab, Columbia, MD U.S.A.



2.1 INTRODUCTION

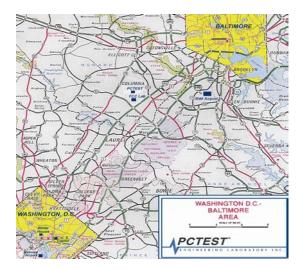


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

These measurement tests were conducted at *PCTEST Engineering Laboratory, Inc.* facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

Measurement Procedure

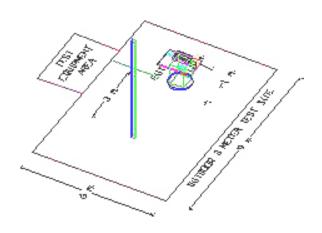


Figure 2. 3-meter Outdoor Test Site

3.1 INSERTS PER §2.1033(d)

§2.1033(d) Function of Active Devices (Confidential)

The Function of active devices are shown in Attachment L.

§2.1033(d) Block/Circuit Diagrams & Description (Confidential)

The circuit diagrams & description are shown in Attachment J, and the block diagrams are shown in Attachment I.

§2.1033(d) Operating Instructions

The instruction manual is shown in Attachment M.

§2.1033(d) Parts List & Tune-Up Procedure (Confidential)

The parts list & tune-up procedure are shown in Attachment K.

§2.1033(d) Description of Freq. Stabilization Circuit (Confidential)

The description of frequency stabilization circuit is shown in Attachment L.

§2.1033(d) Description for Suppression of Spurious Radiation, for Limiting Modulation, and Harmonic Suppression Circuits (Confidential)

The description of suppression stabilization circuits are shown in Attachment L.

4.1 DESCRIPTION OF TESTS

4.2 §2.1047(a) Transmitter Audio Frequency Response

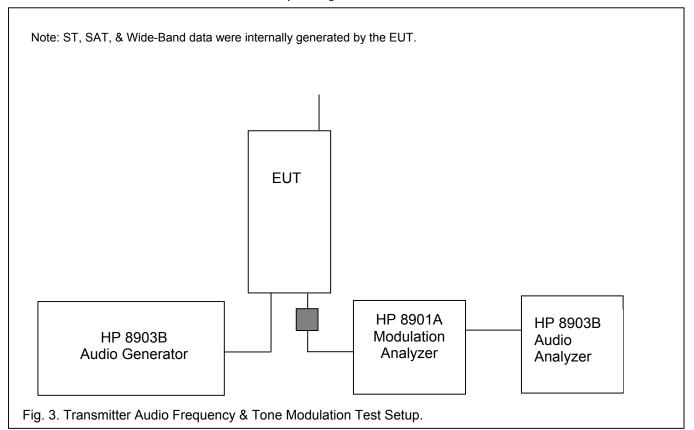
The frequency response of the audio modulating circuit over the frequency range 100 – 5000 Hz is measured. The audio signal generator is connected to the audio input circuit/microphone of the EUT. The audio signal input is adjusted to obtain 50% modulation at 1kHz and this point is taken as the 0dB reference. With the input held constant and below the limit at all frequencies, the audio signal generator is varied from 100 to 50 kHz.

4.3 §22.915(d) Audio Low Pass Filter Frequency Response

The response in dB relative to 1kHz is measured using the HP8901 a Modulation Analyzer. For the frequency response of the audio low-pass filter, the audio input is connected at the input to the modulation limiter and the modulated stage. The audio output is connected at the output of the modulated stage. The corresponding plots are shown herein.

4.4 §2.1047(b) & §22.915(b) Modulation Limiting

The audio signal generator is connected to the audio input circuit/microphone of the EUT. The modulation response is measured for each of the three modulating frequencies (300Hz, 1000 Hz, and 3000Hz), and the input voltage is varied from 30% modulation (±3.6kHz deviation) to at least 20dB higher than the saturation point. Measurements of modulation and the plots are attached herein. Measurements were performed for ST, SAT, and wide-band data modulations. The corresponding results are shown herein.



4.1 DESCRIPTION OF TESTS (CONTINUED)

4.4 §2.1049(c) Occupied Bandwidth

The audio signal generator is adjusted to 1kHz. The output level is set to +/- 6kHz deviation. With the level constant, the freq. Is set to 2,500Hz. Then the audio signal level is increased by 16dB. The occupied bandwidth data is obtained for the SAT (Supervisory Audio Tone), ST (Signaling Tone), WBD (Wideband Data), and DTMF (Dual Tone Multi Frequencies). The results are shown on the attached graphs.

Specified Limits:

- (a) On any frequency removed from the assigned carrier frequency by more than 20kHz, up to and including 45kHz, the sideband is at least 26dB below the carrier.
- (b) On any frequency removed from the assigned carrier frequency by more than 45kHz, up to and including 90kHz, the sideband is at least 45dB below the carrier.
- (c) On any frequency removed from the assigned carrier frequency by more than 90kHz, up to the first multiple of the carrier frequency, the sideband is at least 60dB below the carrier of 40 + log₁₀ (mean power output in Watts) dB, whichever is the smaller attenuation.

4.5 §2.1051 Spurious and Harmonic Emissions at Antenna Terminal

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10 GHz. The transmitter is modulated with a 2500Hz tone at a level of 16dB greater than that required to provided 50% modulation.

At the input terminals of the spectrum analyzer, an isolator (RF circulator with on port terminated with 50 ohms) and an 870 MHz to 890 MHz bandpass filter is connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The rejection of the bandpass filter to signals in the 825 – 845 MHz range is adequate to limit the transmit energy from the test transceiver which appears to a level which will allow the analyzer to measure signals less than – 90dBm. Calibration of the test receiver is performed in the 870 – 890 MHz range to insure accuracy to allow variation in the passband filter insertion loss to be calibrated.

4.6 §2.1053 Radiation Spurious and Harmonic Emissions

Radiation and harmonic emissions above 1 GHz is measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

4.1 DESCRIPTION OF TESTS (CONTINUED)

4.7 §2.995 Frequency Stability/Temperature Variation

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +60°C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification – The minimum frequency stability shall be +/- 0.00025% at any time during normal operation.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27°C to provide a reference).
- 2. The equipment is subjected to an overnight "soak" at -30°C without any power applied.
- 3. After the overnight "soak" at 30°C (usually 14-16 hours), the equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
- 4. Frequency measurements is made at 10°C interval up to room temperature. At least a period of one and one half hour is provided to allow stabilization of the equipment at each temperature level.
- 5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
- 6. Frequency were made at 10 intervals starting at 30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after applying power to the transmitter.
- 7. The artificial load is mounted external to the temperature chamber.

NOTE: The EUT is tested down to the battery endpoint.

5.1 Test Data

5.2 Effective Radiated Power Output

A. POWER: Low (Analog Mode)

Freq.Tuned	LEVEL	POL	ERP	ERP
(M Hz)	(dBm)	(H /V)	(W)	(dBm)
824.04	-35.200	Н	0.00406	6.073
836.49	-34.800	Н	0.00461	6.629
848.97	-35.200	Н	0.00436	6.385

B. POWER: High (Analog Mode)

Freq.Tuned (M H z)	LEVEL (dBm)	POL (H/V)	ERP (W)	ERP	BATTERY
824.04	-15.200	Н	0.40488	26.073	Standard
836.49	-14.800	Н	0.46014	26.629	Standard
848.97	-15.200	Н	0.43500	26.385	Standard

NOTES:

ERP Measurements by Substitution Method:

5.1 Test Data (Cont'd)

5.3 Effective Radiated Power Output

A. POWER: High (CDMA Mode)

Freq. Tuned (M Hz)	LEVEL	POL (H/V)	ERP	ERP	BATTERY
824.70	-16.600	Н	0.29387	24.682	Standard
835.89	-16.350	Н	0.32231	25.083	Standard
848.31	-16.750	Н	0.30385	24.827	Standard

NOTES:

ERP Measurements by Substitution Method:

6.1 Test Data

6.2 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation

 OPERATING FREQUENCY:
 824.04
 MHz

 CHANNEL:
 0991 (Low)

 MEASURED OUTPUT POWER:
 26.633
 dBm
 = 0.461
 W

 MODULATION SIGNAL:
 FM (Internal)

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W) = 39.63$ dBc

FREQ.	LEVEL (dBm)	POL (H/V)	(dBc)
1648.08	-83.67	Н	66.2
2472.12	-91.50	Н	69.7
3296.16	-95.80	Н	70.3
4120.20	-107.50	Н	78.4
4944.24	< -130		

NOTES:

6.3AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.49 MHz

CHANNEL: 0383 (Mid)

MEASURED OUTPUT POWER: 26.633 dBm = 0.461 W

MODULATION SIGNAL: FM (Internal)

DISTANCE: 3 meters LIMIT: $43 + 10 \log_{10} (W) = 39.63$ dBc

FREQ.	LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-84.00	Н	66.5
2509.47	-90.38	Н	68.4
3345.96	-95.00	Н	69.3
4182.45	-105.34	Н	76.2
5018.94	< -130		

NOTES:

6.4 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.97 MHz

CHANNEL: 0799 (High)

MEASURED OUTPUT POWER: 26.633 dBm = 0.461 W

MODULATION SIGNAL: FM (Internal)

DISTANCE: 3 meters LIMIT: $43 + 10 \log_{10} (W) = 39.63$ dBc

FREQ.	LEVEL (dBm)	POL (H/V)	(dBc)
1697.94	-83.70	Н	65.8
2546.91	-90.80	Н	68.6
3395.88	-96.00	Н	70.1
4244.85	-106.50	Н	77.4
5093.82	< -130		

NOTES:

6.5 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

 OPERATING FREQUENCY:
 824.70
 MHz

 CHANNEL:
 1013 (Low)

 MEASURED OUTPUT POWER:
 25.083
 dBm
 0.322
 W

 MODULATION SIGNAL:
 CDMA (Internal)
 meters

 LIMIT:
 43 + 10 log10 (W) =
 38.08
 dBc

FREQ.	LEVEL (dBm)	POL (H /V)	(dBc)
1649.40	-89.50	Н	70.5
2474.10	-93.70	Н	70.4
3298.80	-9 7.00	Н	70.0
4123.50	-108.80	Н	78.2
4948.20	< -130		

NOTES:

6.6 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

 OPERATING FREQUENCY:
 835.89
 MHz

 CHANNEL:
 0363 (Mid)
 MHz

 MEASURED OUTPUT POWER:
 25.083
 dBm
 0.322
 W

 MODULATION SIGNAL:
 CDMA (Internal)
 meters

 LIMIT:
 43 + 10 log₁₀ (W) =
 38.08
 dBc

FREQ.	LEVEL	POL	(dp =)
(M Hz)	(dBm)	(H /V)	(dBc)
1671.78	-89.34	Н	70.3
2507 . 67	-93.00	Н	69.5
3343.56	-96.50	Н	69.3
4179.45	-108.40	Н	77.7
5015.34	< -130		

NOTES:

6.7 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

 OPERATING FREQUENCY:
 848.31
 MHz

 CHANNEL:
 0777 (High)

 MEASURED OUTPUT POWER:
 25.083
 dBm
 0.322
 W

 MODULATION SIGNAL:
 CDMA (Internal)
 meters

 LIMIT:
 43 + 10 log10 (W) =
 38.08
 dBc

FREQ.	LEVEL (dBm)	POL (H /V)	(dBc)
1696.62	-89.50	H	70.1
2544.93	-93.50	Н	69.8
3393.24	-9 7.40	Н	70.0
4241.55	-108.10	Н	77.3
5089.86	< -130		

NOTES:

7.1 Test Data

7.2 FREQUENCY STABILITY (AMPS)

OPERATING FREQUENCY: 836,490,009 Hz

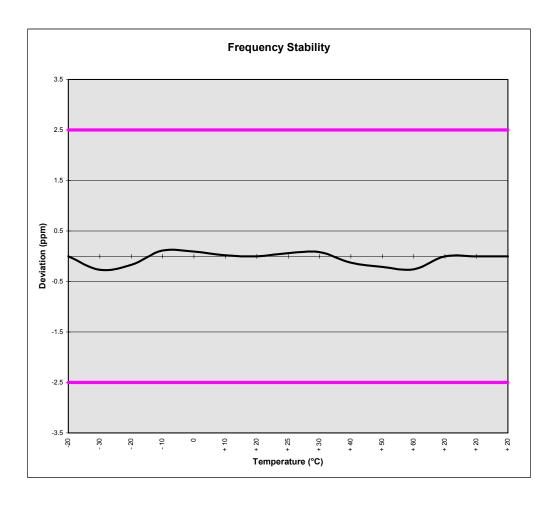
CHANNEL: 383

REFERENCE VOLTAGE: 3.6 VDC

DEVIATION LIM IT: ± 0.00025 % or 2.5 ppm

VOLTAGE	POW ER	TEM P	FREQ.	Deviation
(%)	(VDC)	(°C)	(H z)	(%)
100 %	3 .80	+ 20 (Ref)	836,490,009	0.00000.0
100 %		-30	836,490,235	-0.000027
100 %		-20	836,490,151	-0.000017
100 %		-10	836,489,917	0.000011
100 %		0	836,489,934	0.000009
100 %		+ 10	836,489,992	0.000002
100 %		+ 20	836,490,009	0.00000.0
100 %		+ 25	836,489,959	0.000006
100 %		+ 30	836,489,942	800000.0
100 %		+ 40	836,490,118	-0.000013
100 %		+ 50	836,490,185	-0.000021
100%		+ 60	836,490,226	-0.000026
85 %	3.23	+ 20	836,490,009	0.00000.0
115 %	4.37	+ 20	836,490,009	0.00000.0
BATT.ENDPOINT	2.71	+ 20	836,490,009	0.00000.0

7.3 FREQUENCY STABILITY (AMPS)



Test Report S/N: 22.210309131.PJR FCC Part 22
Dates of Tests: March 8-9, 2001 Certification

8.1 PLOT(S) OF EMISSIONS

SEE ATTACHMENT D

9.1 TEST EQUIPMENT

Туре	Model Cal.	Due Date	S/N
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	08/15/01 3638A	.08713
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	04/17/02	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (100Hz-1.8GHz)	08/10/01	3144A02458
Signal Generator*	HP 8640B (500Hz-1GHz)	06/03/02	2232A19558
Signal Generator*	HP 8640B (500Hz-1GHz)	06/03/02	1851A09816
Signal Generator*	Rohde & Schwarz (0.1-1000MHz)	09/11/01	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30-1000MHz)	04/12/02	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30-1000MHz)	03/11/02	0805-03334
Ailtech/Eaton Receiver	NM 17/27A (0.1-32MHz)	09/17/01	0608-03241
Quasi-Peak Adapter	HP 85650A	08/15/01	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/02	0194-04082
Gigatronics Universal Power Meter	8657A	03/11/02	1835256
Gigatronics Power Sensor	80701A (0.05-18GHz)		1833460
Signal Generator	HP 8648D (9kHz-4GHz)		3613A00315
Amplifier Research	5S1G4 (5W, 800MHz-4.2GHz)		22322
Network Analyzer	HP 8753E (30kHz-3GHz)		JP38020182
Audio Analyzer	HP 8903B		3011A09025
Modulation Analyzer	HP 8901A		2432A03467
Power Meter	HP 437B		3125U24437
Power Sensor	HP 8482H (30μW-3W)		2237A02084
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)		3531A00115
Broadband Amplifier (2)	HP 8447D		1145A00470, 1937A0334
Broadband Amplifier	HP 8447F		2443A03784
Horn Antenna	EMCO Model 3115 (1-18GHz)	9704-5	
Horn Antenna	EMCO Model 3115 (1-18GHz)	9205-3	
Horn Antenna	EMCO Model 3116 (18-40GHz)	7203-3	9203-2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455-1/Sing	or 04455 1/Complian	
* *	Ailtech/Eaton 93490-1	er 94400-1/Compilant	<u> </u>
Log-Spiral Antenna (3) Roberts Dipoles			0608, 1103, 1104
•	Compliance Design (1 set)		22440 111
Ailtech Dipoles	DM-105A (1 set) 3816/2		33448-111
EMCO LISN (6)			1079
Microwave Preamplifier 40dB Gain	HP 83017A (0.5-26.5GHz)		3123A00181
Vlicrowave Cables	MicroCoax (1.0-26.5GHz) NM37/57A-SL		0700 00071
Ailtech/Eaton Receiver			0792-03271
Spectrum Analyzer	HP 8594A		3051A00187
Spectrum Analyzer (2)	HP 8591A		3034A01395, 3108A020
Microwave Survey Meter	Holaday Model 1501 (2.450GHz)		80931
Digital Thermometer	Extech Instruments 421305		426966
Attenuator Bi Dispetienal Cook Courter	HP 8495A (0-70dB) DC-4GHz		
Bi-Directional Coax Coupler	Narda 3020A (50-1000MHz)		(710 (DCT070)
Shielded Screen Room	RF Lindgren Model 26-2/2-0		6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81		R2437 (PCT278)
Enviromental Chamber	Associated Systems Model 1025 (Te	mperature/Humidity)	PCT285

 $^{^{\}star}$ Calibration traceable to the National Institute of Standards and Technology (NIST).

10.1 SAMPLE CALCULATIONS

A. ERP Calculation

Level
$$\mu$$
/Vm @ 3 meters = Log $_{10}^{-1}$ (dBm + 107 + AFCL)

$$Log_{10}^{-1} \left(-\frac{14 + 107 + 31.7}{20} \right)$$

1717908.4 μ/Vm @ 3 meters

Sample Calculation (relative to a dipole)

ERP (dBm) = $10 \text{ Log}_{10} (((r(\mu V/m)1x10^6)^2/49.2/1x10^{-3}))$

ERP (dBm) = $10 \text{ Log}_{10}(((3(1717908.4)1x10^6)^2/49.2/1x10^{-3}))$

ERP (dBm) = 28.95

B. Emission Designator per §2.201

CDMA Sample

2M + 2DK

CDMA BW = 1.25 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

Emission Designator = 1M25F9W

11.1 CONCLUSION

The data collected shows that the **GIGA Dual-Mode Cellular Phone FCC ID: PJRGDM-100** complies with all the requirements of Parts 2 and 22 of the FCC rules.