

RADIOFREQUENCY RADIATION EXPOSURE REPORT

Mobiles /Fixed Base Station

Maximum Permissible Exposure (MPE)

OF

Product Name: GPS tracking system with voice function

Brand Name: N/A

Model Name: GV8300 with HS100, GV8100N, GV8200N, GT8000N ,GT8005N

FCC ID: TBQGV-8300

Report No.: ER/2006/80030

Issue Date: Oct. 20, 2006

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1. GENERAL INFORMATION

1.1 Product Description

Product	GPS tracking system with voice function	
Model Name	GV8300 with HS100, GV8100N, GV8200N, GT8000N, GT8005N	
Model Difference:	N/A	
Brand Name	N/A	
Frequency Range and Power	GSM 850: 824 MHz – 849 MHz	33 dBm
	GSM 1900: 1850 MHz –1910 MHz	30 dBm
Type of Emission	300KGXW	
Power Supply	12V DC by Car Battery	

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **TBQGV-8300** filing to comply with Section Part 22, subpart H of the FCC CFR 47 Rules. For 47 CFR 1.1310 Radiofrequency Radiation Exposure requirement.

1.3 Test Methodology

The testing were performed according to the procedures document on IEEE C95.1,chapter 13 of ANSI C63.4 (2003) and TIA/EIA-603-1-1998.



1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 & 10 meters) Registration Number: 94644, Anechoic chamber (3 meters) Registration Number: 573967

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode link mode with GSM/GPRS Base station. the Tx frequency was fixed which was for the purpose of the measurements with max output power level..

2.3 Test Procedure

Maximum Permissible Exposure (MPE) measurement:

In accordance with ANSI 63.4:2003, the EUT is placed on a turn table which is 1 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 20 cm away from the receiving probe. In order to find out the max. emission, the ambient temperature of the actual EUT was maintained within the range of 10 to 40 C unless the particular equipment requirements specify testing over a different temperature range, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

2.4 Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

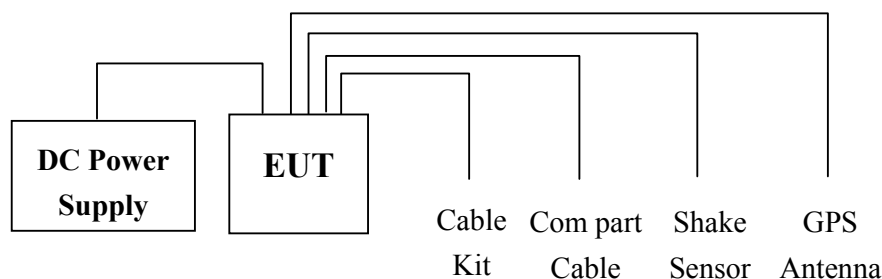


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.
1.	DC Power Supply	TOPWARD	3303A	N/A	715856

3. Description of test modes

The EUT has been tested under normal operating link mode with GSM/GPRS Base Station. condition. the Tx frequency was fixed which was for the purpose of the measurements with max output power level.

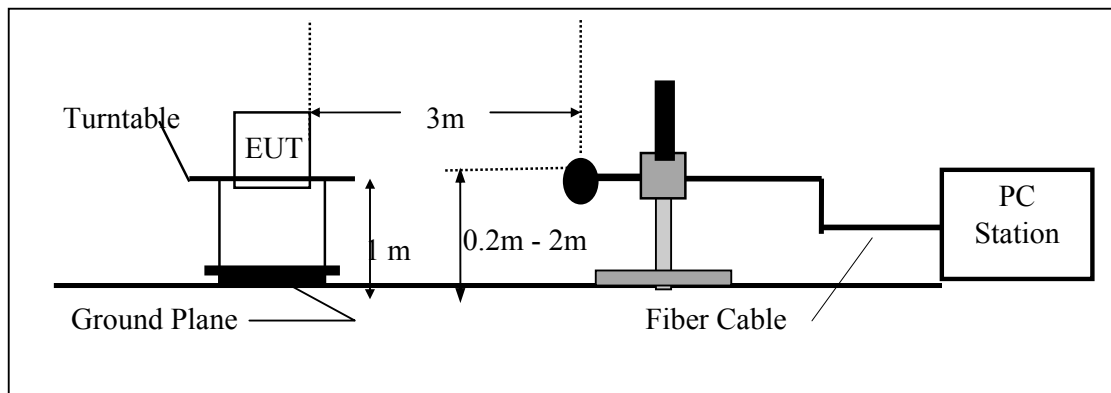
The GSM 850 channel 251 (channel High) which has the max conducted power level was chosen for testing and reported.

4. Maximum Permissible Exposure (MPE) Measurement

4.1.Measurement Procedure:

1. The following measurements were performed with a field probe using
2. The EUT's radiating element (antenna) was placed on a 1 m tall table for ease of testing. For equipment normally operated on a metal surface, a ground plane was used.
3. The remaining equipment necessary to operate the EUT was maintained at a distance from the measurement arrangement suitable to minimize interference with the measurements.
4. With the EUT operating at maximum power, a search was initiated for worst case emissions with the probe raised and lowered over a range of 0.2 to 2 meters in height and over a horizontal plane of 0o to 360o.

4.2.Test SET-UP (Block Diagram of Configuration)



4.3.Measurement Equipment Used:

966 Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
STRENGTH FIELD Meter	WG	EMR-30	BN2244/80	10/30/2005	10/30/2006
Turn Table	HD	DT420	N/A	N/A	N/A
Antenna Tower	HD	MA240-N	240/657	N/A	N/A
Controller	HD	HD100	N/A	N/A	N/A

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4.4.Measurement Result:

Operation Mode : TX CH High Mode

Fundamental Frequency : 848.80 MHz

Temperature : 25°C

Test Date : Oct. 19, 2006

Test By : Jason

Humidity : 65%

Probe Height (m)	Power Density (mW/cm ²)	Limit at 20cm (mW/cm ²)
2.0	0.0060	1.0
1.8	0.0130	1.0
1.6	0.0150	1.0
1.4	0.0350	1.0
1.2	0.0840	1.0
1.0	0.0152	1.0
0.8	0.0230	1.0
0.6	0.0210	1.0
04	0.0150	1.0
02	0.0140	1.0

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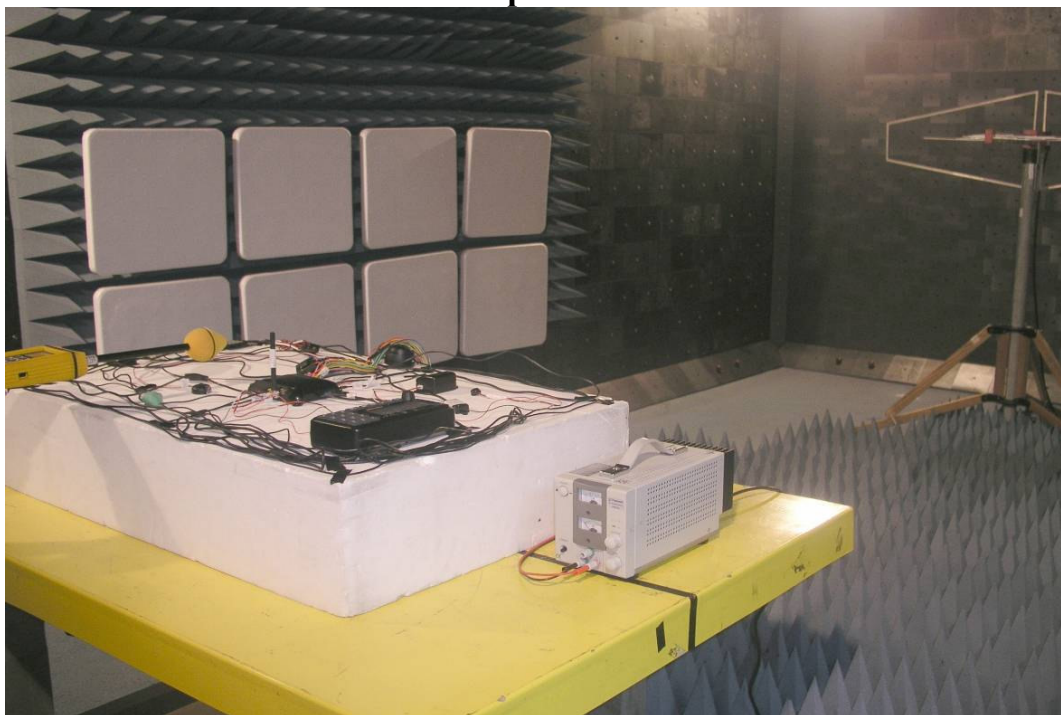
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APPENDIX 1

PHOTOGRPHS OF SET UP

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Setup Photos



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