

Report No: ER/2008/50011 Issue Date: May. 21, 2008 Page: 1 of 16

RADIO FREQUENCY RADIATION EXPOSURE REPORT

Mobiles /Fixed Base Station Maximum Permissible Exposure (MPE)

OF

Product Name:	Basic Function tracking system		
Brand Name:	N/A		
Marketing Name:	N/A		
Model Name:	GT3200ST 、 GT3010ST 、 GT3200ST-KP 、 GT3200ST-100		
FCC ID:	TBQGT-3200ST		
Report No:	ER/2008/50011		
Issue Date:	May. 21, 2008		
Prepared for:	Portman Electronics (shenzhen) CO.,LTD		
	9th Building, Tong Fuyu Industrial Park, Longhua, Baoan, Shenzhen 518109, China		
Prepared by:	SGS Taiwan Ltd.		
	Electronics & Communication Laboratory		
	No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.		

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VERIFICATION OF COMPLIANCE

Applicant:	Portman Electronics (shenzhen) CO.,LTD 9th Building, Tong Fuyu Industrial Park, Longhua, Baoan, Shenzhen 518109, China
Product Name:	Basic Function tracking system
FCC ID Number:	TBQGT-3200ST
Brand Name:	N/A
Model No:	GT3200ST 、 GT3010ST 、 GT3200ST-KP 、 GT3200ST-100
Model Difference:	Please see page 6
File Number:	ER/2008/50011
Date of test:	May. 08, 2008 ~ May. 21, 2008
Date of EUT Received:	May. 07, 2008

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Sky Wang	Date	May. 21, 2008
	Sky Wang / Asst. Supervisor	_	
Prepared By:	Alex Hsieh	Date	May. 21, 2008
	Alex Hsieh / Sr. Engineer		
Approved By:	Timent In	Date	May. 21, 2008

Vincent Su/Manager

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Report Version

Version No.	Date
00	May. 21, 2008

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1. GENERAL INFORMATION

General:

Product Name:	Basic Function tracking system
Brand Name:	N/A
Model Name:	GT3200ST 、 GT3010ST 、 GT3200ST-KP 、 GT3200ST-100
Model Difference:	see below
Power Supply:	4.8Vdc Li-ion Battery or 12V DC by Car Battery

The list of model different as below:

Modification Id.	Reason for modification		
GT3010ST	can not optional handfree and MIC in accordance with GT3200ST		
GT3200ST-KP	can optional Infrared keypad/hand free/MIC in accordance with GT3200ST		
GT3200ST-100	can optional HS100/hand free/MIC in accordance with GT3200ST		

GSM

Frequency Range and Power:	GSM/GPRS 850: 824MHz –849MHz Class 10	33 dBm
	GSM/GPRS 1900: 1850MHz –1910MHz Class 10	30 dBm
Hardware Version:	N/A	
Software Version:	N/A	

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1.2 Related Submittal(s) / Grant (s)

This submittal(test report) is intended to comply with section part22 subpart H and part 24 subpart E of the FCC CFR 47 Rules.

1.3 Special Accessories

Not available for this EUT intended for grant.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Limitation

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(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

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1.6 Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the Basic Function tracking system. Based on the FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091, we have concluded that the Basic Function tracking system will comply with the FCC rules on RF exposure for mobile devices if the antenna gain does not exceed 2dBi (The max. gain) in cellular band and 2dBi in PCS band. The following analysis will demonstrate such compliance. The analysis will be done in two US bands.

Operation in cellular band (824.2MHz – 848.8 MHz)

The peak conducted output power of Basic Function tracking system in cellular band is 28.55 dBm at GSM/GPRS mode. Take the worst case as an example, in which an antenna with 2dBi (The max gain) gain is used. The resulted power density at a distance of 20 cm can be deducted as follows:

EIRP = 28.55 + 2 = 30.55 dBm = 1135.01 mWPower Density = EIRP*Duty Cycle/(4 R²) = $1135.01*0.125/(4* *20^2) = 0.028 \text{ mW/cm}^2$ where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = $824/1500 = 0.55 \text{ mW/cm}^2$

As we can see the resulted power density is below the MPE limit, therefore Basic Function tracking system in cellular band is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850.2MHz – 1909.8MHz)

The peak conducted output power of module Basic Function tracking system in PCS band is 29.70 dBm. Take the worst case as an example, in which an antenna with 2 dBi gain is used. The resulted ERP can be expressed as follows:

ERP = 29.70 + (2) - 2.14 = 29.56 dBm (0.904 W) < 3 W

The FCC OET Bulletin 65 Supplement C states that mobile devices identified in 47 CFR §2.1091 that operate at frequencies above 1.5 GHz with an ERP of 3.0 watts or more are required to perform routine environmental evaluation for RF exposure prior to equipment authorization or use; otherwise, they are categorically excluded.

As we can see this resulted ERP is below 3 W, therefore routine environmental evaluation for RF exposure prior to equipment authorization or use for Basic Function tracking system in PCS band is categorically excluded.

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APPENDIX 1 PHOTOGRAPHS OF EUT

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All View of EUT



Front View of EUT



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Bottom View of EUT

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Right View of EUT



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Left View of EUT



Back View of EUT



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Open View of EUT – 1 (Battery)



Open View of EUT – 2



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Internal of EUT -1



Internal of EUT-2



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Internal of EUT-3 (GSM module)



Internal of EUT – 4 (GSM module)



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Internal of EUT – 5 (GPS module)



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