

RADIO FREQUENCY RADIATION EXPOSURE REPORT

Mobiles /Fixed Base Station Maximum Permissible Exposure (MPE)

OF

Product Name: Blood Glucose plus Blood Pressure Monitoring system

Brand Name: N/A

Model Name: TD-3261G, TD-3261H, TD-3261X, TD-3265G, TD-3265H, TD-3265X, D40g
(where X can be any alphanumeric or blank, except A~D)

Model Difference: Different model for different color

FCC ID: TM73261GMC55I

Report No.: EH/2009/90016-02

Issue Date: Sep. 21, 2009

Prepared for: TaiDoc Technology Corp.
6F, No.127, Wugong 2nd Rd., 24888 Wugu Township, Taipei County, Taiwan

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: TaiDoc Technology Corp.
6F, No.127, Wugong 2nd Rd., 24888 Wugu Township, Taipei County, Taiwan

Product Name: Blood Glucose plus Blood Pressure Monitoring system

FCC ID Number: TM73261GMC55I

Brand Name: N/A

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Model Difference: Different model for different color

File Number: EH/2009/90016-02

Date of test: Sep. 07, 2009 ~ Sep. 18, 2009

Date of EUT Received: Sep. 07, 2009

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:



Date:

Sep. 21, 2009

Jason Wu / Asst. Supervisor

Prepared By:



Date:

Sep. 21, 2009

Eva Kao / Asst. Supervisor

Approved By:



Date:

Sep. 21, 2009

Vincent Su/Manager

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Version

Version No.	Date	Description
00	Sep. 21, 2009	Initial creation of document

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Table of Contents

1.	GENERAL INFORMATION	5
1.2	RELATED SUBMITTAL(S) / GRANT (S)	6
1.3	SPECIAL ACCESSORIES	6
1.4	EQUIPMENT MODIFICATIONS	6
1.5	LIMITATION	6
1.6	MAXIMUM PERMISSIBLE EXPOSURE (MPE) EVALUATION	7

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1. GENERAL INFORMATION

General:

Product Name	Blood Glucose plus Blood Pressure Monitoring system		
Brand Name	N/A		
Model Name	TD-3261G, TD-3261H, TD-3261X, TD-3265G, TD-3265H, TD-3265X, D40g (where X can be any alphanumeric or blank, except A~D)		
Model Difference	Different model for different color		
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by USB Cable		
	Battery:	Model No.: S14500 1s4p, Supplier: D2-TECH Co., Ltd.	
	Adapter:	Model No.: GS2U-006-060-A, Supplier: Good Opportunity Electronic Co., Ltd.	

GSM:

GSM Modular Report:	Report No: 2-20722858c/07-C1 Supplier: CETECOM Model Number: MC55i		
	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850, Class 10	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS 900, Class 10	880.2MHz – 914.8MHz	33 dBm
	GSM/GPRS 1800, Class 10	1710.2MHz – 1784.8MHz	30 dBm
	GSM/GPRS 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm
Type of Emission	22H(GMSK): 824.2 - 848.8 MHz: 300KGXW 24E(GMSK): 1850.2 – 1909.8 MHz: 300KGXW		
IMEI	352024026372403		

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

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 (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

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1.6 Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the TD-3261G. Based on the FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091, we have concluded that the MC55i module will comply with the FCC rules on RF exposure for mobile devices in cellular band and PCS band. The following analysis will demonstrate such compliance. The analysis will be done in two US bands.

Operation in cellular band (824 – 849 MHz)

The ERP of TD-3261G in cellular band is 22.29dBm max at GSM/GPRS mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GPRS 850	824.20	1013	H	V	116.70	30.32	-7.87	3.62	18.82	38.45
				H	120.06	33.79	-7.87	3.62	22.29	38.45
	836.60	384	H	V	116.32	30.06	-7.88	3.65	18.54	38.45
				H	119.20	32.97	-7.88	3.65	21.44	38.45
	848.80	777	H	V	117.37	31.24	-7.88	3.68	19.69	38.45
				H	119.40	33.20	-7.88	3.68	21.65	38.45

$$ERP = 22.29 \text{ dBm} = 169.43 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= ERP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 169.43 * 0.25 / (4 * \pi * 20^2) = 0.0084 \text{ mW/cm}^2 \end{aligned}$$

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:

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

As we can see the resulted power density is below the MPE limit, therefore TD-3261G in cellular band is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz)

The EIRP of TD-3261G in PCS band is 23.55 dBm. max. The resulted EIRP can be expressed as follows:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GPRS 1900	1850.20	512	H	V	120.35	15.96	9.90	5.56	20.30	33.00
				H	121.90	17.72	9.90	5.56	22.06	33.00
	1880.00	661	H	V	119.65	15.29	9.99	5.61	19.67	33.00
				H	121.92	17.78	9.99	5.61	22.15	33.00
	1909.80	810	H	V	121.03	16.70	10.07	5.66	21.12	33.00
				H	123.25	19.14	10.07	5.66	23.55	33.00

$$\text{EIRP} = 23.55 \text{ dBm} = 226.46 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{EIRP} \cdot \text{Duty Cycle} / (4 \pi R^2) \\ &= 226.46 \cdot 0.25 / (4 \cdot \pi \cdot 20^2) = 0.0113 \text{ mW/cm}^2 \end{aligned}$$

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:

$$\text{MPE limit} = 1.0 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore TD-3261G in PCS band is compliant with the FCC rules on RF exposure.

~ End of Report ~