RF Exposure Evaluation Declaration

Product Name : Digi Wi-Point 3G

Model No. : Digi Wi-Point 3G

FCC ID : SUMMB8600D

Applicant: Top Global USA. Inc

Address : 4605 Barranca Parkway Suit 101G, Irvine City,

California, 92604 USA

Date of Receipt : 2008/01/24

Issued Date : 2008/02/18

Report No. : 081S007-RF-US

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP, NIST or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.



Report No: 081S007-RF-US

Test Report Certification

Issued Date : 2008/02/18 Report No. : 081S007-RF-US

QuieTek

Product Name : Digi Wi-Point 3G

Applicant : Top Global USA. Inc

Address : 8/F Reward Building, No.203 Wangjing Lizezhongyuan,

Chaoyang District, Beijing, China

Manufacturer : Top Global USA. Inc

Address : 8/F Reward Building, No.203 Wangjing Lizezhongyuan,

Chaoyang District, Beijing, China

Model No. : Digi Wi-Point 3G
FCC ID : SUMMB8600D
Rated Voltage : AC 120 V / 60 Hz

Rated Voltage : AC 120 V / 60 EUT Voltage : DC 5.0V

Trade Name : Digi

Applicable Standard : FCC OET 65
Test Result : Complied

Performed Location : SuZhou EMC laboratory

No.99 Hongye Rd., Suzhou Industrial Park Loufeng

Hi-Tech Development Zone., SuZhou, China

TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

FCC Registration Number: 800392

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Any Liu

Reviewed By :

Dream Cao

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Murphy Wang)



Report No: 081S007-RF-US

Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C. : BSMI, DGT, CNLA

Germany : TUV Rheinland

Norway : Nemko, DNV USA : FCC, NVLAP

Japan : VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://tw.quietek.com/modules/myalbum/

The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory:

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.















LinKou Testing Laboratory:















Suzhou Testing Laboratory:















1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

	Electric	Magnetic	Power	Average		
Frequency	Field	Field		Average		
Range (MHz)	Strength	Strength	Density	Time		
	(V/m)	(A/m)	(mW/cm2)	(Minutes)		
(A) Limits for ((A) Limits for Occupational/ Control Exposures					
300-1500	-		F/300	6		
1500-100,000			5	6		
(B) Limits for General Population/ Uncontrolled Exposures						
300-1500			F/1500	6		
1500-100,000			1	30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18° C and 78° M RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	Digi Wi-Point 3G	
Test Item	:	RF Exposure Evaluation	
Test Site	:	AC-3	
Test Mode	:	Mode 1: Transmitter by 802.11b	

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 dBi or 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
01	2412.00	17.1002	0.005392
06	2437.00	16.7494	0.005281
11	2462.00	14.3549	0.004526

Note:

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm2.



Product	:	Digi Wi-Point 3G	
Test Item	:	RF Exposure Evaluation	
Test Site	:	AC-3	
Test Mode	:	Mode 2: Transmitter by 802.11g	

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 dBi or 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
01	2412.00	15.2405	0.004805
06	2437.00	16.5577	0.005221
11	2462.00	15.2757	0.004816

Note:

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm2.