



RF Exposure Evaluation Declaration

Product Name : GPS Locator

Model No. : GV35

FCC ID : YQD-GV35

Applicant : Quealink Wireless Solutions Co., Ltd

Address : Room 501, Building 9, No 99, TianZhou Road,
Shanghai, China

Date of Receipt : 16/05/2012

Issued Date : 25/05/2012

Report No. : 125S045R-RF-US

Report Version : V2.0

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 TAF, CNAS or any agency of the Government.

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

Test Report Certification

Issued Date : 25/05/2012

Report No. : 125S045R-RF-US



Product Name : GPS Locator
 Applicant : Queclink Wireless Solutions Co.,Ltd
 Address : Room 501, Building 9, No 99, TianZhou Road, Shanghai, China
 Manufacturer : Queclink Wireless Solutions Co.,Ltd
 Address : Room 501, Building 9, No 99, TianZhou Road, Shanghai, China
 Model No. : GV35
 FCC ID : YQD-GV35
 EUT Voltage : 10-16V
 Trade Name : Queclink
 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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 Approved By : Marlin Chen
 (Engineering Manager: Marlin Chen)

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/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

| | | |
|----------------------|----------|-----------------------|
| Taiwan R.O.C. | : | BSMI, NCC, TAF |
| Germany | : | TUV Rheinland |
| Norway | : | Nemko, DNV |
| USA | : | FCC, NVLAP |
| Japan | : | VCCI |
| China | : | CNAS |

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

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 :

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TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

LinKou Testing Laboratory :

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

Suzhou Testing 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 E-Mail : service@quietek.com

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)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (Minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (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: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

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 is 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% RH.

1.3. Test Result of RF Exposure Evaluation

| | | |
|-----------|---|------------------------|
| Product | : | GPS Locator |
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | AC-6 |

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is -2.9dBi for 824~894MHz band; 2.2dBi for 1850~1990MHz band.

Output Power into Antenna & RF Exposure Evaluation Distance:

| Test Mode | Frequency Band (MHz) | Maximum Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm ²) | Limit Power Density (mW/cm ²) |
|-----------|----------------------|--------------------------------------|--|---|
| GSM850 | 824~849 | 1976.9696 | 0.201711 | 0.55 |
| PCS1900 | 1850~1910 | 1109.1748 | 0.366210 | 1 |