RF Exposure Evaluation Declaration

Product Name : GPS Locator Model No. : GL300VC FCC ID: YQD-GL300VC

Applicant : Queclink Wireless Solutions Co.,Ltd Address : Room 501, Building 9, No 99, TianZhou Road, Shanghai, China

> Date of Receipt : 17-11-2014 Issued Date : 25-11-2014 Report No. : UL12620141117FCC026-5 Report Version : V1.0

The test results relate only to the samples tested.

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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.

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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. :	GL300VC			
EUT Voltage	Extreme Low: 3.6V, Normal: 3.7V, Extreme High: 4.2V			
Brand Name:	Queclink			
Applicable Standard :	KDB 447498 D01 v05r02			
	FCC CFR Title 47 Part 1.1310			
	FCC CFR Title 47 Part 2.1093			
Test Result :	Complied			
Performed Location :	Unilab (Shanghai) Co.,Ltd.			
	FCC 2.948 register number is 714465			
	No.1350, Lianxi Road, Pudong New District, Shangha, China			
	TEL:+86-21-5027-5125/FAX:+86-21-5027-5126-876			

Tingwei Li

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(Technical Engineer: Jingwei Li)

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Reviewed By :

Approved By :

(Senior Engineer: Forest Cao)

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(Supervisor: Eva Wang)

1. EUT Description

Product Name:	GPS Locator		
Model Name:	GPS Locator		
Hardware Version:	1.02		
Software Version:	GL300VCR00A01V12M128_MXIC		
RF Exposure Environment:	Uncontrolled		
CDMA2000			
Support Band:	CDMA2000 BC0/BC1		
Tx Frequency Range:	CDMA2000 BC0: 824.70 MHz to 848.31MHz		
	CDMA2000 BC1: 1851.25MHz to 1908.75MHz CDMA2000 BC0: 869.70 MHz to 893.31MHz		
Rx Frequency Range:	CDMA2000 BC0: 809.70 Miliz to 893.31Miliz CDMA2000 BC1: 1931.25MHz to 1988.75MHz		
Type of modulation:	QPSK		
Antenna Type:	Touch spring		
Antenna Peak Gain:	CDMA2000 BC0/BC1: 1.0dBi		

2. RF Exposure Evaluation

2.1 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	Electric Filed	Magnetic Filed	Power Density	Average Time	
Range(MHz)	Strength	Strength	(mW/cm2)	(Minutes)	
	(V/m)	(A/m)			
(A)Limits for Occupation/Control Exposures					
300-1500			F/300	6	
1500-100,000			5	6	
(B)Limits for General Occupation/UnControlled Exposures					
300-1500			F/1500	6	
1500-100,000			1	30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout^{*}G)/(4^{*}Pi^{*}R^{2})$

Where

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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.

2.2.Test Result of RF Exposure Evaluation

This device is evaluated by mobile device with general population/uncontrolled exposure condition For this device, the calculation is using the most conservative values, and the results are as follows:

Test Mode	ERP (dBm)	EIRP (dBm)	Peak EIRP (mW)	Calculated RF Exposure at d = 20cm (mW/cm2)	MPE Limit (mW/cm2)
CDMA2000 BC0	21.26	23.41	219.3	0.04	0.55
CDMA2000 BC1	/	23.14	206.1	0.04	1.00

Test Mode	Antenna Gain (dBi)	Maximum Output Power (dBm)	Maximum Output Power From Antenna (mW)	Calculated RF Exposure at d = 20cm (mW/cm2)	MPE Limit (mW/cm2)
CDMA2000 BC0	1	25	398.11	0.08	0.55
CDMA2000 BC1	1	25	398.11	0.08	1.00

This device can pass RF exposure limit.