

## Helen Zhao

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**Subject:** FW: ??: FW: Chih-Kan Technology Co., Ltd., FCC ID: Q2L-01010100, Assessment NO.: AN04T4320, Notice#1



GS-301 UserMan GS-301 TestRpt  
revised 1115.pd... revised 1112.pd...

-----Original Message-----

From: ting@ccsemc.com.tw [mailto:ting@ccsemc.com.tw]On Behalf Of application@ccsemc.com.tw  
Sent: Monday, November 15, 2004 5:23 PM  
To: Helen Zhao  
Cc: Application (CCS TW) (E-mail)  
Subject: ??: FW: Chih-Kan Technology Co., Ltd., FCC ID: Q2L-01010100, Assessment NO.: AN04T4320, Notice#1

Hi Helen,

Please refer to the below for details.

Best Regards,  
Ting

-----Original Message-----

From: Compliance Certification Services [mailto:hzhao@ccsemc.com]  
Sent: Thursday, November 11, 2004 3:06 PM  
To: Helen Zhao  
Subject: Chih-Kan Technology Co., Ltd., FCC ID: Q2L-01010100, Assessment  
NO.: AN04T4320, Notice#1

Question #1: The user manual indicated that an AC multi-power adaptor will be provided to the end-user, and page 9 shows the port of DC power Jack on the device. Please provide external photos of the AC multi-power adaptor and resubmit the power line conducted emission test data when the AC multi-power adaptor is used.

Ans. As manual page7 indicated, it's a DC jacket but it uses a USB cable to contact to PC or Notebook for charging but not a AC power adapter. Please refer to page 1 of external photos for the USB cable. Besides, we have performed AC Line conduction test to verify when the BT GPS connects to the host for charging as indicated in the test report.

Question #2: The user manual mentioned internal antenna with 29dBi gain and external antenna(not specifying gain), never mentioned ceramic antenna with 4.0 dBi gain. The antenna specification and test report indicates a 4.0 dBi gain ceramic antenna was used. Please specify which antenna(s) will be used for GPS function, which antenna will be used for Bluetooth function. Please also indicate clearly on the internal photos to show antenna locations. For your information, GPS receiver is not subject to FCC certification.

Ans. The internal antenna of 29dBi gain is for GPS itself not BT. BT spec. is indicated in the section 4.8 of page 5 of user manual. As for the antenna BT used, it uses a Ceramic Chip Antenna as indicated on the upper

photo of page 2 of internal photos with part no. "4" on it.

Question #3: Page 3 of the user manual mentioned GR-230, please explain what is the relationship between GR-230 and GS-301.

Ans. Please refer to the revised user manual as attached.

(See attached file: GS-301 UserMan revised 1115.pdf)

Question #4: Section 7.7 checked Mobile device but stated: "SAR evaluation is not required for the PORTABLE device while its maximum output power is lower than the general population low threshold:

$60/f(\text{GHz})=60/2.441=24.58\text{mW}$ ". Please note the statement itself is correct, but this is not the case. Since this device is considered as mobile device, MPE calculation is required.

Ans. Please refer to attached for the revised test report.

(See attached file: GS-301 TestRpt revised 1112.pdf)

Question #5: The same page of section 7.7 RF Exposure lists frequency range of "2402-2480GHz", please correct. You may need to revise "WLAN: 5.745GHz ~ 5825GHz" as well.

Ans. Please refer to attached for the revised test report.

Question #6: This is for your information. Bluetooth device can be certified as "DTS -Digital Transmission System" if tested according to DTS requirements, or "DSS-Spread spectrum devices" if tested according to FHSS requirements. Almost all CCS TW tested Bluetooth devices based on FHSS requirement, the proper Equipment of Class should be "DSS" instead of "DTS".

Best regards,  
Helen Zhao