

Lucy Tsai

From: Chung, Mark (Taipei) <Mark.Chung@sgs.com>
Sent: 2011年8月2日星期二 上午 6:35
To: Lucy Tsai; Chou, Celine (Taipei)
Cc: Hsieh, Alex (Taipei); Hung, Sunny (Taipei)
Subject: RE: Compal Electronics, Inc., //GKR-TP00028AA //AN11T0520
Attachments: AN11T0520.rar

Hi Lucy,

Please see my response to your concerns as details below.

Q#1: According to the operational description, WLAN and BT are sharing the same antennas (antenna 1 and antenna 2) but in the internal photos, it indicated that only main antenna is for WLAN/BT, aux antenna is for WLAN only. Please clarify.

[SGS Reply] about this issue, WLAN and BT are sharing Aux Antenna, Main antenna for WLAN only, when use WLAN and BT function at the same time, the WLAN function will automatic switch to main antenna.

Also, please clarify if this device has supported FM transmitter since there has no antenna connected in the 3rd port.

[SGS Reply] this device doesn't has supported FM transmitter, our client had removed the FM transmitter description in the operation description, please refer to attach file.

Besides, please clarify if both WLAN and BT can transmit simultaneously.

[SGS Reply] about this issue, WLAN and BT are sharing Main Antenna, aux antenna for WLAN only, when use WLAN and BT function at the same time, the WLAN function will automatic switch to aux antenna.

[Lucy] Based on your reply, WLAN and BT are sharing same antenna and can transmit simultaneously, per 2005 TCB workshop material, EMC co-location mode shall be investigated accordingly. Please address.

[Mark] after confirmation from modular vendor, WLAN and BT shares Aux Antenna. However, they cannot transmit simultaneously. While BT is transmitting, WLAN is switched to Main. On Main, only WLAN functions.

Q#2: Please provide WLAN/BT schematics.

[Mark] Please see the attached. WLAN/BT schematic is attached as shown above.

Q#3: According to the internal photos, user manual and schematics and block diagram, except WLAN/BT combo module, this device also supports WWAN with two antennas installed and also a proximity sensor is equipped with but there has nothing documented inside the operational description. Please address.

[Mark] all functions implying WWAN are removed. Please see the revised attachment. The submittal user's manual serves the multi-purpose encompassing WWAN + WLAN model and WLAN only model. The attestation letter has been addressed that only WLAN compliance for WLAN only model is pursued at this time.

Q#4: BT specification mentioned in the operational description is 3.0 which does not agree with 2.0 as mentioned in the user manual. Please clarify.

[SGS Reply] this device doesn't has supported Bluetooth 3.0, our client had removed the Bluetooth 3.0 in the operation description, please refer to attach file.

Q#5: User manual-2 mentioned that at least 2.5cm separation distance should be maintained from the antenna to the user. Please explain how this will be achieved.

[Mark] 2.5cm separation has been removed from the compliance sentences of RF exposure. Please verify it.

DTS report

Q#6: The lowest data rate in n mode should not be 6Mbps, please check and correct page 10 accordingly.

[SGS Reply] We had revised page 10 of test report (the correct data rate should be 6.5Mbps), please refer to the attach file

Q#7: According to the test plots of output power test, test was done by a spectrum, not the power meter. Please correct the description of test procedure

[SGS Reply] We had revised page 17 of test report, please refer to the attach file

Q#8: Regarding the radiated emission above 1GHz, please go over them again. Fundamental frequencies reported are very low and some of them are even lower than the harmonica frequency. It is unreasonable. Please check and same issue also apply to DSS report.

[SGS Reply] We had revised radiated emission above 1GHz data in the DTS and DSS test report, please refer to the attach file

Q#9: In the PPSD test, you mentioned that the cable loss is 0dB which should be impossible. You may already offset the cable loss during the test, so, in the result table, you can remove the cable loss and add a note in somewhere inside the report.

[SGS Reply] We had revised page 114 of test report (delete the cable loss description and add offset in the page 114), please refer to the attach file.

[Lucy] I understand that you have already offset 6.5dB during the test from the plot, but please clarify what it has included.

[Mark] on page 114 of the revised test report, "offset=6.5dBm" has been fully addressed what has been accumulated as value being offset.

Q#10: The output power of n mode mentioned in the theory of operational is above 1dB lower than the report documented. Please address.

[SGS Reply] our client had revised the maximum output power declared in the operational description, please refer to attach file.

SAR test report:

Q#11: Please indicate both main and aux antennas from the page 5 of test setup photos with the separation distance

[SGS Reply] We had added main and aux antenna separation distance in the photo, please refer to the attach file.

Q#12: The calibration date of SN856 listed in the test report does not agree with calibration report. Please check and correct.

[SGS Reply] We had revised SAR report, please refer to the attach file.

[Lucy] It was not changed yet.

[Mark] Calibration date of SN856 are all equally consistent across the report. Page 45 and 47, it is dipole certificate, and equipment being mentioned upon it is equipment vendor using to calibrate.

Q#13: According to the EUT internal photos, main and aux antennas are located in the edge of primary landscape and secondary landscape but SAR test only investigated in the main antenna. Please explain why aux antenna is not required to be tested?

[SGS Reply] Aux antenna is intended to be receiving only, it is unnecessary to test this item.

[Lucy] The answer does not agree with Q#1 and also again, according to the block diagram, aux antenna is also acting as transmitting antenna.

[Mark] The SAR measurement on Aux are made up. Please see the attachment and review it.

BR,
Mark

From: Lucy Tsai [mailto:lucy.tsai@ccsemc.com]

Sent: Tuesday, July 19, 2011 5:21 PM

To: Chou, Celine (Taipei)
Cc: Lucy Tsai
Subject: Compal Electronics, Inc., //GKR-TP00028AA //AN11T0520

Hi, Celine,

Please address following issues.

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Best Regards,
Lucy Tsai/UL CCS

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