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FCC ID: ACJ9TGCF-U15

RT Questions / Answers :

1. The conducted output power measurements for cellular/PCS GPRS and cellular/PCS CDMA are all in the lower halves of the acceptable power ranges listed in the tune-up procedure (some measured levels are actually less than the minimally acceptable value). This means that units coming off of the production line may have output levels more than 2 dB higher than those tested for EMC and RFx compliance. Please retest (EMC, SAR and MPE) a unit with conducted power levels in the upper halves of the acceptable power ranges, per FCC policy, and submit new data. Alternatively, please revise the acceptable power ranges listed in the tune- up procedure and resubmit that.

   Powers were re-evaluated and the SAR report document has been updated with the correct powers. The MPE was also revised to account for the new conducted powers and maximum antenna gains.

2. The RF exposure Draft document submitted with this application (is this the Supplement instructions referenced in the user's manual?) lists max permissible external antenna gains for the cellular and PCS bands that are lower than the max permitted gains calculated in the MPE report. Please confirm that the (lower) permissible gains listed in the manual are intentional. If not, please revise and resubmit the manual language.

   The RF Exposure Draft and the User Manual (Page 5) have been updated to reflect the maximum antenna gain to match that given in the revised MPE test report.

3. Are the output power measurements in the DTS report average (as I suspect) or peak? While the DL is set at 20 dBc in the bandedge/oob measurements, it appears that the EUT might comply with the 30 dBc limit specified for average output power measurements. Please clarify. The test report should be clear about the specific requirement for which compliance is being demonstrated.

   The WLAN test report has been revised to state that an average power sensor was used for power measurements and a 30dBc limit line has been added to the conducted spurious plots.

4. On p.43/59 of the DTS report, the low channel 2nd harmonic RE PAR is less than 3 dB, while for the other channels it is about 6 dB. Please confirm that these low channel measurements are correct.

We have verified that the reported measurements are accurate.

5. Please confirm that the SAR data taken in 2008 remains applicable to the EUT.

We confirm that the SAR data is still applicable to this EUT since it contains the same WLAN, tuning, antenna gains, and physical housing.

6. In the SAR report, in Table 10-4 (p.19), "antenna" is misspelled, and the WLAN to BT distance listed in the Table is different from the distance shown in the photo. Please revise.

Updated

7. Please provide System Verification SAR results using muscle tissue fluid for the 2450 MHz SAR tests, as required by the FCC.

The FCC did not provide this requirement in writing until 2009, whereas these SAR tests were performed before then, when the FCC was still accepting brain tissue in all System Verification tests.

8. The SAR plot on p.42/91 lists 5300 MHz muscle tissue parameters that are not found in Table 13-1, however, the measurement is performed at 5200 MHz, using the probe conv F for 5200 MHz. Were tissue parameters calibrated for 5300 MHz used to measure SAR at 5190 MHz, over 100 MHz away? This must be justified. Beginning on p.46/91, 5300 MHz measurements are apparently made. Please clarify.

Please find updated plots with 5.2 GHz tissue data incorporated.