



FCC ID: RSNFLEX2GO

IC ID: N/A

CT Project: TCB-p1350026

From: John Erhard

Date: December 13, 2013

1. The emissions types listed in the test report and users manual do not match. Please verify and correct as necessary.

Cellphone-Mate – User's Manual has been revised

2. Please add the final amplifier stage supply voltage and current to the block diagram. Both voltage and current is required.

Cellphone-Mate – Block Diagram has been revised

3. Replacing resistors of other components as part of a tune up procedure is not allowed. The production product is required to match the schematic. Variations of components in the TX circuit path require separate FCC IDs. Please verify this procedure.

Cellphone-Mate – Updated

4. The block diagram does not indicate which frequency bands are used with each of the filter / amplifier paths. Please add a table indicating this information.

Cellphone-Mate – Table has been added

5. The block diagram and the schematics do not consistently name the paths, the block diagram call them PCS and CDMA which the schematic calls them PCS and cellular. Please correct.

Cellphone-Mate – Documents have been revised to use consistent naming conventions

6. Internal photos are required to have all shields removed. Please remove the shields at the antenna terminals and submit new photos.

Cellphone-Mate – Additional photos have been taken

7. External photos showing all sides of the final product are required. Please add additional photos showing the rest of the product.

Cellphone-Mate – Additional photos have been taken



8. Spectrum analyzer plots throughout the test report do not show the 1:3 RBW / VBW ratio required. As this spectrum analyzer only indicates the RBW and a checkbox for VBW please explain how the requirement is met.

CT – When the checkbox for the VBW is not checked, the video bandwidth is disabled. Per the manufacturers user manual this is the correct setting for meeting the requirement that the VBW is set to 3x the RBW. The explanation provided below is copied from the Tektronix RSA 5126 Real Time Spectrum Analyzer user's manual.

**Page 120 of the RSA 5126 User's manual**

*"The VBW setting enables/disables the Video Bandwidth filter. VBW is used in traditional swept analyzers to reduce the effect of noise on the displayed signal. The VBW algorithm in the analyzer emulates the VBW filters of traditional swept analyzers.*

*The maximum VBW value is the current RBW setting. The minimum VBW value is 1/10,000 of the RBW setting. VBW is disabled when the Filter shape is set to CISPR.*

**NOTE.** *If you are following a procedure that says to "set VBW to three times the RBW value or greater", it means that the test should be conducted with no VBW effects. In the analyzer, this condition is met by disabling the VBW function."*

9. Page 38 of the test report has an incorrect limit for the 1850 – 1910 uplink band. Please correct.

CT – Limit has been corrected.

10. Page 39 has incorrect noise limits and margins. It also appears that a few of the measurements may be out of compliance. Please correct.

CT – The limits have been corrected and new data was recorded.

Incorrect limits were used and there was an offset in the spectrum analyzer from the previous test that shifted all the data by ~ 6 dB higher than it actually was.

11. Page 61 of the test report has the downlink restart time limit and measurement units listed as mS; this should be in seconds.

CT – Units have been corrected

12. In the MSCL document, there is no limit on MSCL. Please remove and/or explain where this limit is derived.

Cellphone-Mate – MSCL document has been revised

13. Please explain where the MSCL space loss is derived.

Cellphone-Mate – MSCL Space Loss Explanation document has been supplied

14. In the MPE report please provide the formulas for calculating the non-log values for the antenna and cable numeric values.

Cellphone-Mate – Calculations have been added

Response by: Greg Corbin & Cellphone-Mate

Submitted by: Amanda Reed

Date: 12/18/2013