

Non-Conformities FCC ID: A3LSMM-2CD0480800 (CKC CS Ref # 93409-22-FCC)

The items listed below represent requests for information following review of this application for certification under United States (FCC) regulations. Further question may arise pending review of responses to these items.

OK	ID	#	Non-Conformity or Comment	Submitted Response	Respondent / Date of Response
x		1	The test report including the 3MHz and 5MHz LTE (report 93409-4B) for the LRS08-T5022-100 includes data for a device which is limited to 20W single channel and 40W dual channel. The original certification was filed with a 50W aggregate power output. This change in power output must be explained in order to accept the testing report.	In CDMA-only mode the product is rated at 50W/path or 100W TOTAL. In Mixed-Mode operation (LTE and CDMA), the product is rated at 40W/path or 80W TOTAL. The back-off in power in Mixed-Mode operation is necessary due to the differing signal statistics (in particular the Peak to Average Power Ratio or PAPR) and the need to meet the signal quality requirements of the respective standards.	JB 3/25/13
x		2	Because the upgrade to the equipment is via software, the FCC is concerned about control and release of such software upgrades. Can you please clarify how the software is updated, who is in control of the software and how the software is protected from public release? Information answering this question is best provided in a cover letter, either a modification of the existing letter or a supplemental letter of explanation.	The software upgrade can only be performed from the Network Operations Center or NOC. New software is downloaded to the Remote Radio Head (RRH) over the Common Packet Radio Interface (CPRI) fiber optic cable which connects the RRH to the Base Transceiver Station (BTS). The software upgrade, which is subject to strict pre-release conformance testing by the OEM (Samsung), is strictly controlled by the OEM (Samsung) and their end –customer (Sprint). Only these 2 parties can upgrade the software on the RRH units. It is impossible for the Powerwave or the public to install new software on the fielded products.	JB 3/25/13
x		3	In report 93409-4B, Please clarify emissions data on page 20 of test report; this appears to clearly show emissions out of tolerance.	Page 20 , bandedge plot captured at RBW od 100kHz was performed with Delta marker correction with RBW of 10kHz and 10 dB amplitude correction as demonstrated in page 21, top plot.	EW 3/21/13
x		4	In report 93409-4B, please clarify plots on pages 23 and 24 as compliance demonstration is	23, additional plot captured with wider span showing compliance at the bandedge with better separations.	EW 3/21/13

			unclear.		
x		5	<p>Effective 2/20/2013, the FCC has modified their equipment authorization policies and is no longer accepting applications for boosters and amplifiers. The FCC has further imposed new labeling requirements and is reviewing adoption of additional technical standards. Due to lack of response from previous questions, CKC CS processing of this application is on hold until further clarification is provided by the FCC.</p> <p>CKC CS submitted KDB inquiry regarding this application.</p>	<p>Client responded that the amplifier system is not an off-air interface and is in fact part of the core network of amplifiers for the provider. The applicant states that the rules are for consumer off air interfaces, not for the cellular towers owned by the operators.</p> <p>FCC Responded authorizing CKC CS to continue with application filing.</p>	FCC 4/8/13