Non-Conformities FCC ID: E675JS0108 (CKC CS Ref # E09-000019-FCC-01)

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	C	1	Please clarify temporary confidentiality request; the release date is specified as November, 3rd, 2008. The temporary confidentiality request may be granted for up to 180 days from the date of application filing.	Attached please find the updated letter. The new release date is March 23, 2009.	C. Yu 03/20/2009
X	A	2	The file size of report FC09-012 is too large, please separate into two files for upload to IC.	Updated test report provided.	3/24/09
X	TL	3	For report FC09-012 on pages 10-13, please explain the peak to average ratio measurement method employed.	**Just realized, item 3 was NOT tested with CCDF method, instead an Peak trace Vs time averaged trace.** **However, PAR is not a requirement for the frequency band.**	**Eddie Wong 3/20/09**
X	C	4	As listed under part 90 test report (FC09-010) on page 9, please explain the rationale for 12.6W operation on 774.875 MHz. How does the internal power transition occur and how is the power level regulated (ie, is it a step function at a specific frequency or a slope across the frequency). Please explain.	For this product design, the rated power of the unit is regulated by the DL AGC Level which is set in the OM Online Graphical User Interface. The reference point for the AGC level is at the PA output. The AGC Level at the PA output is 25W. Most frequency ranges for this product design have the antenna port power set at 20W due to approximately 1dB of output losses from the PA through a 'TYPICAL' duplexer.	C. Yu 03/20/2009

				For the 700MHz PS +D Block duplexer the performance is not typical, with the highest 2MHz specified at 2dB of output loss. This additional loss is due to co-location rejection built into the duplexer design. The duplexer is rated for 1dB of losses from 758-773MHz and 2dB of losses from 773-775MHz. The co-location rejection is required to protect the UL band of the commercial services Upper C block (776-787MHz). For the rated power of the system, here is some math on this situation: PA APC Level = 44dBm (25W) Effective Antenna port APC level at 758-773MHz = 44dBm – 1dB duplexer losses = 43dBm (20W) Effective Antenna port APC level at 773-775MHz = 44dBm – 2dB duplexer losses = 42dBm (12.6W) Although the specification is a step function, the actual transfer function of the duplexer is a slope as the frequency increases from 773 to 775MHz.	
X	A	5	Since the input is via fiber optic, please confirm equipment class change to TNB.	Updated application provided	CKC CS 3/24/09
X	TL/R	6	For part 90 (FC09-010report, please show demonstration of compliance with 90.543(f) for the band 1559 to 1610 MHz.	Detailed assessment of the emission in the band 1559-1610MHz was performed at the antenna port.	Eddie Wong 3/20/09

| | | | | The following statement was inadvertently left out from the conducted Spurious emission data sheet.

The manufacturer does not provide an antenna to be sold with the device, however additional investigation was performed in the band 1559-1610 MHz to comply with 90.543(f) , no emission was found. | |

The items indicated above must be submitted before processing can continue on the referenced application. Failure to provide the requested information within 60 days may result in application dismissal pursuant to Section 2.917(c) and forfeiture of the filing fee pursuant to Section 1.1106.

How to read the table:
OK column indicates closure by CKC CS.
ID column is for use with Agents to assist in identifying the probable source for closure.
      A – Application issue
      TL – Test lab issue
      C – Client issue
      R – Retesting may be necessary
column indicates unique or separate non-conformity items (note some items may be related).
Non-Conformity or Comment column indicates the evaluators specific question or comment.
Submitted response column indicates the response or a summary of the response provided.
Respondent / Date of Response column indicates the responding party or agent and the date of the response was either received or logged.