

Non-Conformities FCC ID: W4J-WXI210G1 (CKC CS Ref # E09-000062-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	<p>The confidentiality letter provided includes a request for confidentiality for Internal photograph. This request is not legitimate. Internal photographs do not qualify for confidentiality without further justification. Please provide proper justification for confidentiality of the internal photographs or remove the request from the confidential letter.</p> <p>NOTE: Internal photo confidentiality requires FCC approval</p>	<p>New Letter Provided. 6/23/09 Original confidential request for internal photo is removed.</p>	<p>Patrick Orallo 6/12/09</p>
X	C	2	<p>The confidential letter is signed by Jawed Sayed, However, the contact person listed on the FCC website as authorized individual is David Watson and the person listed on CKCCS website is Patrick Orallo</p> <p>In accordance with FCC Policy (KDB 852134), please provide all cover letters signed by the authorized individual named in the applicant's grantee code information or by an authorized designee. In the latter case, please also provide letters of authorization signed by the authorized individual designating the alternate(s). In all cases, a paper trail must be demonstrated leading back to the person named under the grantee code.</p>	<p>Patrick Orallo is the Contact. There are not any requirements that the TCB contact be the Grantee Contact as long as the authorized individuals sign all the letters.</p> <p>Changed the FCC contact person from Dave Watson to Jawed Sayed.</p>	<p>Jessina Hunter Agent 6/9/09</p> <p>Patrick Orallo 6/12/09</p>
X	C	3	<p>In accordance with FCC 2.1033(c) (8), The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range must be provided. Please supply a new operation description with the inclusion of the needed information.</p>	<p>New Operational Descriptions Provided.</p>	<p>Patrick Orallo 6/12/09</p>
X	TL	4	<p>Please provide revised external photograph showing all six sides of the device.</p>	<p>4 added</p>	<p>Art Rice 6/18/09</p>
X	TL	5	<p>Radiated emission date on page 60, 63 of the test report FC09-048 does not list all the test equipment used within the range of</p>	<p>Updated Test Report Sent.</p>	<p>Reports Department per Art Rice</p>

			<p>measurement from 9 kHz -26.9 GHz during pre scan.</p> <p>Please provide a revised equipment list with the inclusion of equipments used in pre-scan .</p>		6/22/09
X	TL	6	<p>Page57, 58 and 64 of the test report FC09-048 indicated a reduced RBW of 47kHz was used, however per FCC27.53 M(6) " <i>Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater.....A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth</i> ".</p> <p>Please clarify how was the required condition " <i>provided the measured power is integrated over the full required measurement bandwidth</i> " was met.</p>	<p>Regarding non-conformity #6, I initially discussed this with Randy Clark and just re-confirmed that: Per 27.53(m)(6), in the 1 MHz adjacent to the band edge, 1% of the emission bandwidth is allowed with no correction. Here is the excerpt as sent to me by Randy:</p> <p>(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the</p>	<p>Art Rice 6/18/09</p>

				<p>measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.</p> <p>6/23/09 EW: RBW of 100kHz and 45 kHz meets the 1% BW of OCB.</p>	
X	C	7	The Maximum Permissible Exposure Statement is missing from the User manual. Please provide a revised user manual with the appropriate Maximum Permissible Exposure Statement.	NA - the device is a not mobile nor portable therefore the equipment is categorically excluded from RF Exposure evaluation 1.1307	Jessina Hunter Agent 6/9/09
X	TL	8	Page 29 and 30 of the test report FC09-048. The measured occupied BW of the plots labeled 10MHz 16QAM low channel and 10MHz 16QAM high channel are 4.4367MHz and 4.4390MHz. Please verify	Updated Test Report Sent.	Reports Department per Art Rice 6/22/09

			whether these plots are mislabeled.		
X	TL	9	<p>The device also operates in 10 MHz bandwidth. However 27.1220 "The width of a channel in the LBS and UBS is 5.5 MHz, with the exception of BRS channels 1 and 2 which are 6.0 MHz. The width of all channels in the MBS is 6 MHz. However, the licensee may subchannelize its authorized bandwidth, provided that digital modulation is employed and the aggregate power does not exceed the authorized power for the channel. The licensee may also, jointly with other licensees, transmit utilizing bandwidth in excess of its authorized bandwidth, provided that digital modulation is employed, all power spectral density requirements set forth in this part are met and the out-of-band emissions restrictions set forth in Sec. 27.53 are met at the edges of the channels employed. "</p> <p>Please provide data showing the power spectral density requirement is met when operating in 10MHz BW mode.</p>	<p>After discussions with other engineers, Section 27.50(h)(4) does apply to main, booster, and response stations. This device is categorized as an "other user station" under 27.50(h)(2). Therefore this does not apply.</p>	<p>Art Rice 6/18/09</p>
X	TL	10	<p>The specified emission limit is "attenuation of -43 +10Log P", however page 42 - 51 of the test report FC09-048, the limit computed against is 94 dBuV. Please demonstrate how the emission limit of 94dBuV was derived.</p>	<p>Updated Test Report Sent.</p>	<p>Reports Department per Art Rice 6/22/09</p>

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.