

Non-Conformities FCC ID: W4J-WXSGR (CKC CS Ref # E09-000063-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
√	A	1	Internal photograph exceeds 6MB in file size, please provide new internal photographs with acceptable file size.	Used the New Adobe and the file was reduced by 10,000 kb. Reduced Internal Photos in the Temp Folder.	Jessina Hunter 8/4/09
√	C	2	The confidentiality letter provided includes a request for confidentiality for Internal photograph and user manual. This request is not legitimate. Internal photographs and user manual 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. NOTE: Internal photo and user manual confidentiality requires FCC approval	New Confidentiality Letter Provided. This letter omits the need of confidentiality for internal photos.	Patrick Orallo 7/14/09
√	TL	3	Please provide revised external photograph showing all six sides of the device	2 additional photos are provided. Photos: WX-SGR left side WX-SGR right side	Art Rice 7-27-09
√	TL	4	Radiated emission date on page 67, 69 of the test report FC09-049 does not list all the test equipment used within the range of measurement from 9 kHz -26.9 GHz during pre scan. Please provide a revised equipment list with the inclusion of equipments used in pre-scan . 8/5/09: Test report FC09- 049A, does not content the required list, please provide a revised test report.	Pre-scan + max equipment list WX-SGR.rtf Is included in the report addendum files to be uploaded. Updated Test Report Provided.	Art Rice 7-27-09 Report Department 8/10/09
√	TL	5	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 sub-channelize 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	Section 27.50(h)(4) applies to main, booster, and response stations. This device is categorized as an "other user station" under 27.50(h)(2). Therefore this should not apply.	Art Rice 7-27-09

		<p>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>Alternative If This device is categorized as an “other user station” under 27.50(h)(2), then please provide a statement to clarify.</p>			
✓	TL	6	<p>The specified emission limit is attenuation of $-43 + 10 \log P$, however page 44 - 62 of the test report FC09-049, the limit computed against is 94 dBμV. Please demonstrate how was emission limit of 94dBμV derived</p>	<p>Spurious emissions limit calculation: First convert maximum measured power output from dBm to dBW. $\text{Inv log } [(26.1 \text{ dBm} - 30)/10] = 0.40738 \text{ W}$ Then calculate required attenuation: $43 + 10 \log(0.40738 \text{ W}) = 39.1 \text{ dB}$ attenuation Then calculate the limit in dBm: $26.1 - 39.1 = -13 \text{ dBm}$ Convert to dBμV: $107 + (-13) = 94 \text{ dB}\mu\text{V}$</p>	Art Rice 7-27-09
✓	TL	7	<p>The setup diagram shows the radiated emission was measured with the device housed in an external chassis. However, the placement of the FCCID label indicates the external chassis is NOT the chassis to be certified.</p> <p>Please justify how was the radiated emission performed in a external chassis where the manufacturer has no control of, represents the actual emission from the device.</p> <p>8/5/09: Page 67 -68 of the rest report FC09- 049A, please provide equipment list for Conducted band-edge emission plot. 8/10/09: New test report FC09-049B, now has sequence 4 uploaded and the equipment list and band-edge settings with the interior chassis performed.</p>	<p>The external chassis was removed. New pre-scans .01-26900 MHz were performed to FCC 27.53(m)(2)(v). Maximized emissions were measured and passed. New FCC 15.109B measurements were also made and passed after adding a ferrite to the Ethernet cable. This data will be put in the report addendum WO89201 line 39.</p> <p>Updated Test Report Provided. Updated Test Report Provided.</p>	Report Department 8/10/09 Chuck Kendall 8/10/09

✓	TL	8	Conducted band-edge plot is sufficient to meet the requirement, please provide a revised test report, with questionable radiated bandedge plot presented on Page 74 - 75 removed. RBW not corrected! New test data is contained in FC09-049B that corrects this.	Please remove the “27.53 - BANDEdge OATS” section pages 70-75 from the report. I have re-measured one bandedge conducted plot, as the RBW is incorrect, and will re-submit it with the report addendum data.	Art Rice 7-27-09 Chuck Kendall 8/10/09
✓	TL	9	The RF output power was measured with a average power meter, however, 27.50(i) <i>Peak transmit power shall be measured over any interval of continuous transmission using instrumentation calibrated in terms of rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.</i> Please provide a revised test report presenting the RF Peak output power. New test data is contained in FC09-049B that corrects this.	Per 27.50(h)(2) Peak power measurements are not specified. Per Eddie Wong, 27.50(i) refers to measurements of television transmitters.	Art Rice 7-27-09 Chuck Kendall 8/10/09

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.

