

## Appendix A

### Non-Conformities for US Radio Equipment Authorization

#### Non-Conformities FCC ID: M5VG03301A (CKC CS Ref # E08-000150-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	TL	1	The FCC ID listed on page 5 of the test report is M5VG03301, which does not match the FCCID sought after. Please provide a revised test report with the correct FCCID	see updated test report. 10/2/08: corrected FCCID	9/30/08
x	TL	2	Clarification is needed for the power measurement presented on page 19 of the test report. Please provide formulae used or sample calculation showing the relationship between the measured field strength in dBuV/m and the radiated power in dBm. We assume that the power formula was used in accordance with DA 00-705 test procedure $P=(Ed)^2 / 30G$ , however this is not stated in the test report.	see updated test report. 10/2/08: verified formula used.	9/30/08
x	C	3	The block diagram does not provided sufficient information of the Bluetooth transmitter. Please provide a revised block diagram showing the frequency of all oscillators of the device, including the building block of the Bluetooth section. The frequency shall be indicated at each block.  Note: CKC CS has attempted to obtain this information from the BT radio manufacturer.	Provided from Simon Chao CC&C Engineering this is the Module's company.  10/3/08 Block diagram from CC&C Engineer does not address the non-conformity.  10/14/08: updated block diagram with 2.4 GHz portion of the block	10/2/08

			10/3/08: The block diagram from the Bluetooth manufacturer did not adequately address the non conformity. The block diagram of the product, shall at the minimum, includes an antenna symbol at the blue tooth block, with the transmit frequency 2.4 GHz labeled at the blue tooth block and the RF path. Please provide a revised block diagram.	appropriately labeled.	
x	c	4	Please provide an operational description which includes information regarding the Bluetooth radio. Note: CKC CS has attempted to obtain this information from the BT radio manufacturer.	Provided from Simon Chao CC&C Engineering this is the Module's company.  10/3/08	10/2/08
x	C	5	The Bluetooth portion of the device is not identified in the schematic diagram. Please provide a schematic diagram with the Bluetooth device clearly labeled. Note: CKC CS has attempted to obtain this information from the BT radio manufacturer.	Provided from Simon Chao CC&C Engineering this is the Module's company.  10/3/08	10/2/08
x	TL	6	Page 8 of the test report shows AC line conducted emission was performed, however, the instruments employed for AC conducted emission are not identified (ref page 27). Please provided a revised test report with pertinent equipment list for AC Conducted emission measurement, including the calibration due date.  10/3/08 IAW 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance	The ESHS 10 Receiver was used for the AC line conducted emission. the equipment is listed on page 27.  10/3/08 : LISN is still missing from the revised test report.  10/5/08: In the test report, the following equipments were used in the AC conducted emission: - Receiver R & S ESHS 10 828404/005 3728 21 Aug 2008	9/30/08  10/5/08  Paul Young

			<p>stabilization network (LISN).</p> <p>Please confirm whether the AC conducted emission was measured with a LISN and list the LISN employed and calibration date, if the AC conducted emission was performed IAW procedure.</p>	<p><b>- Mains Network R &amp; S ESH2-Z5 881362/032 3628 21 Aug 2008 (LISN)</b></p> <p>10/8/08, Clarified, LISN is the Mains Network.</p>	
x	C	7	<p>The return frequency of the RFID tag is not identified, please provide the return frequency of the RFID tag.</p>	<p>The return frequency of the tag is governed by the tag manufacturer and the tag is not the test subject. However, in order for the tags to work (with the reader), they would need to comply to ISO 11784/85 which specify the return frequency (around 134kHz).</p> <p>10/2/08</p>	9/30/08
x	TL	8	<p>The plot on page 14 of the test report shows 75 channels being measured; however paragraph 3 of page 14 of the test report stated 79 channels were measured. Please clarify which is correct. Note typically, we would expect to see 79 hopping channels, however there appear to be a few which were not captured in the sweep. This could be particular to the software implementation for the radio, however this is unclear.</p> <p>Alternatively re-sweeping the spectrum with slower speed or re-measure in smaller section across the transmit band may improve the accuracy of channels</p>	<p>see updated test report. 10/2/08; new plots showing 79 channels.</p>	9/30/08

			captured.			
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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.