

Appendix A

Non-Conformities for US Radio Equipment Authorization

Non-Conformities FCC ID: IBA-VNIVF0340 (CKC CS Ref # E07-000121-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	#	Non-Conformity or Comment	Submitted Response	Respondent / Date of Response
x	1	Confidentiality is requested for photographs ID. However internal photographs are not to be held confidential without proper justification. This request must be justified in order to be considered legitimate. Proper justification includes such item as: (for example) this item is normally potted and any attempt to remove the potting material would destroy the unit . Please provide a revised confidentiality letter either providing proper justification for the request or remove the internal photos from the confidentiality request.	Revised letter of confidentiality with the request for internal photo removed.	12/10/07 CKC
x	2	Confidentiality is requested for photographs ID. However externals photographs are not to be held confidential, please provide a revised confidentiality letter with the request for confidentiality of the external photographs removed.	Revised letter of confidentiality with the request for external photo removed.	12/10/07 CKC
x	3	The internal photographs does not provide enough detail of the PCB and construcion. Please provide legible internal photograph showing identity of major frequency detrermining components iaccordance with 2.1033.	Detailed Photo of PCB provided.	12/10/07 CKC
x	4	<p>The power limit in accordance with 15.247 is expressed in watts however page 59 of the report presents RF power in units other than watts. Please provide revised test port expressing RF output power in appropriate power unit.</p> <p>12/10/07 : Page 59 of the revised test report still shows the incorrect power unit. Please provide test report reporting RF output power expressed in the appropriate power unit.</p> <p>12/12/07 The supplementary RF output power expressed in the appropriate power unit is a field strength measurement. Page 59 of the test report includes conducted RF power measurement which is the preferred method and is</p>	<p>CKC replied: "731 is expressed correctly in watts. I was not aware of regulations that the test report had to state watts." However, page 59 of the revised test report still shows dBm.</p> <p>12/12/07 Revised supplementary data Sheet expressed RF power in Watts. However, only the radiated power was converted, the conducted RF output currently is expressed in dBm</p>	<p>12/10/07 CKC</p> <p>12/12/07 CKC</p>

		evident that in some cases, higher than the RF power measured with radiated field. Please include conducted RF output power in appropriate power unit to facilitate reporting of the highest RF output power for filling purposes.	12/13/07 Revised test report in Watts.	
X	5	Item 12 of the form 731 does not represent the highest power as report in page 59 of the test report. Please revise item 12 of the form 731.	CKC Replied: "Please correct item 12 of the 731 form to be 27.6 dBm or 0.575 watts." 12/10/07 E. Wong corrected Form 731 (o.575 w)	12/10/07 CKC
X	6	The product appears to be a portable device, please clarify whether this is a portable device. If the product is a portable device, please confirm that the reported emission profile represent the worse case configuration of the three orthogonal orientation of the product as required for preliminary investigation by ANSI 63.4.	CKC clarified "It is portable, however, has only one usage orientation. Therefore, it was tested in normal setup configuration."	12/10/07 CKC
x	7	The device facilitates a video camera, video display , however the test condition does not mention the operation of camera nor video display. Please verify whether the vide camera and video display were exercised during the test. 12/10/07: Please provide a revised test report with test condition as claimed." The video camera and display were both exercised during the relevant testing"	CKC replied: "The video camera and display were both exercised during the relevant testing. A revised test report has been uploaded." However, there revised test report does not reflect the test condition. 12/12/07: A revised test report has been uploaded with that statement in the conditions for compliance section.	12/10/07 CKC 12/12/07 CKC
x	8	The Theory of operation document indicates that the product is capable of operating in 14 channels in the 2.4 GHz ISM band, however the declared channels are only 11 channels. The provided documentation does not adequately describe how the allowed frequency bands are chosen for the product, which if improperly selected could transmit on frequencies within a restricted band. Please demonstrate how the user is prohibited from operating in restricted band.	A revised theory of operation with the following revised statement "... . If the Router channel can only set to 11 channels, the device will only have 11 channels." has been uploaded.	12/10/07 CKC
X	9	Page 49 and 51 of the test report indicates the frequency range of investiration is 1-26 GHz, however the test equipment list shows only horn antenna in the range of 1 -18 GHz was employed. Please verify whether or not the test was performed in accordance with the frequency range as	A revised test report has been uploaded	12/10/07 CKC 12/12/07 CKC

		specified.		
X	10	The test condition of Page 35 and 39 indicates that the radiated emission from 32kHz-30MHz, BW=200Hz, which may not be appropriate for the entire frequency range of investigation. Please revise test report to show measurement bandwidth in accordance with 15.35.	A revised test report has been uploaded.	12/10/07 CKC
X	11	Page 9,13,18,24,29,49,51 of the test report indicates the product was tested with the condition "Installed shielded Ethernet Cable with Ferrite on both ends". However the needs to install two ferrite on both end of the shielded cable is not mentioned in the user manual. Please provide updated user manual addressing the use of a shielded ethernet cable meeting the RF suppressing configuration as tested is required.	The revised regulatory section of the manual has been uploaded.	12/10/07 CKC
x	12	The product transmits and receives in the 2.4 GHz ISM band and the Theory of operation document indicates the product "is running at 513 MHz". However page 18 of the report indicates the radiated emission 15.109 is only tested from 30 to 1000MHz, Please provide revised 15.109 data complying with 15.33 upper frequency of radiated emission requirement.	This portion is not subject to TCB review. Note: Do not hold up certification. EW: Non-intentional portion.	12/10/07 CKC
x	13	Page 9, 13, 24,29 of the test report. The test condition indicates the conducted emission was performed inside a chamber, however the test setup photographs seems to indicate the test was conducted outside a chamber. Please verify whether the conducted emission was performed in a chamber.	Testing was performed outside the chamber. The test conditions have been revised in the new test report.	12/10/07 CKC
X	14	Page 9 of the test report, the test equipment list includes a LISN, however the transducer factor of the LISN appears to be unaccounted for in the test data sheet. Please provide update data file with LISN factor taken into consideration.	A revised test report has been uploaded.	12/10/07 CKC
x	15	20 dB BW of Page 58 of the test report was measured with RBW of 100kHz. The RBW employed does not meet the general rules of RBW ~ 1-3% of OBW; VBW>RBW. Please provide justification of RBW used or revise the provide plots. 12/10/07: rephrase : RBW of 100kHz was designated for -6dB BW measurement IAW KDB 558074, please provide justification for RBW of 100kHz used or revise the provide plots to meet -20dB BW/99% BW IAW RSS-GEN 4.6.1.	CKC responded" This plot meets the requirements of KDB 558074." EW: The RBW of 100kHz IAW KDB 558074 is designated for 6 dB Bandwidth measurement, not the 20 dB BW measurement per RSS GEN 12/11/07 TCB decision: The RBW used is adequate to meet Industry Canada's requirement. 12/12/07 This question is an Industry	12/10/07 CKC

			Canada question and is not applicable for the FCC	

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.

---CKC CS SECTION--- ---Information below this line is for CKC CS Evaluators only---

CKCCS Note: Additions to non-conformities may be listed in a separate table for convenience. When separated, the non-conformity reference serial number (NN) is incremented using in the following format reference # E07-000121-FCC-NN.