

Chris Harvey

From: gina.lo [gina.lo@tw.ccsemc.com] on behalf of application [application@tw.ccsemc.com]
Sent: Thursday, August 28, 2008 9:03 PM
To: Chris Harvey
Cc: charvey-tcb@ccsemc.com; lucy.tsai@ccsemc.com; landy.sung
Subject: ☐☐☐ RE: iControl Networks Inc., FCC ID: S23-IHUB3000, Assessment NO.: AN08T8258 - AN08T8261 & AN08I2558, Notice#1 - Updated
Attachments: iHUB-3000 Label Sample & Location Revised 0825.pdf; iHUB-3000 Block Diagram For 908MHz.pdf; iHUB-3000 Antenna specification For GPRS Revised 0827.pdf; iHUB-3000 BOM.pdf; iHUB-3000 tune-up procedure.pdf; iHUB-3000 Test Report for GPRS Revised 0828.pdf; iHUB-3000 Test Report for 319MHz Revised 0828.pdf; APPENDIX III for MPE.pdf; iHUB-3000 Test Report for 319MHz Revised 0828.pdf; iHUB-3000 Test Report for GPRS Revised 0828.pdf; iHUB-3000 Block Diagram For 319MHz.pdf

Dear sir,

Please see my reply, thank you.

Best Regards,

Gina

"Chris Harvey"

<charvey@ieee.org>

!-¥ó=HjG <application.2008@tw.ccsemc.com>

°Æ¥»§Û°e;G <lucy.tsai@ccsemc.com>, <charvey-tcb@ccsemc.com>

2008/08/21 11:18 PM

¥D|@;G RE: iControl Networks Inc., FCC ID: S23-IHUB3000, Assessment NO.: AN08T8258 - AN08T8261 & AN08I2558, Notice#1 - Updated

Dear CCS-TW,

I have noticed 2 errors in my request below so I am revising the request below to correct those errors:

(adding one additional request for the 319.5MHz transmitter and removing one request for 908 MHz transmitter)

Thank you for your understanding in this change of requested information.

Best regards,

Chris Harvey

-----Original Message-----

From: charvey-tcb@ccsemc.com [mailto:charvey-tcb@ccsemc.com]

Sent: Wednesday, August 20, 2008 3:34 PM

To: application.2008@tw.ccsemc.com

Cc: charvey-tcb@ccsemc.com; lucy.tsai@ccsemc.com

Subject: iControl Networks Inc., FCC ID: S23-IHUB3000, Assessment NO.: AN08T8258 - AN08T8261 & AN08I2558, Notice#1

8/29/2008

Dear Celia Hsieh,

You are listed as the Technical Contact for the above referenced TCB application.
The following item(s) need(s) to be resolved before the review can be continued:

AN08T8258

Page 12 of the GPRS RF test report indicates that the highest channel is at 1910MHz, but it should state 1909.8 MHz. The ERP data also indicates 824.35 - 849.10 MHz, and 1850.4 - 1909.7MHz, which do not seem to be correct for this GPRS device. Please correct the RF Test report.

Ans: Please see the revised test report(page 12, 15) as the attachment.

I have changed the frequency listing on the online application form to list the center of the lowest to center of highest channel instead of the entire band, and changed the 0.423W listing for 1900 band to be 0.403W as documented in the test report. I have also changed the Equipment Class for the GPRS from PCT as filed to the correct PCB, since this device is not body-worn.

The RF test report for GPRS mode shows Average Conducted power of 28.8dBm for 850MHz band and 30.2dBm for 1900MHz band. The antenna specification indicates - 0.5dBi in 850 MHz band and 1.0dBi in the 1900MHz band. Please explain why the ERP for the 850MHz band was measured as 18.98dBm for 850MHz band and EIRP of 26.05dBm for the 1900MHz band. The radiated measured values seem to be lower than expected.

Ans: The client provide revised antenna specification for GPRS and after verification the the ERP data is correct.

And please see the revised test report(page 4).

Please provide the RF schematic diagram, Tune-up Procedure and the Parts List exhibits for the GPRS modem module installed in this device as required by FCC 2.1033(c).

Ans: Please see the Tune-up Procedure and the Parts List as the attachment.

The RF schematic diagram, please see the page 11 of the schematic, thank you.

Please provide an RF Exposure compliance exhibit (expected to be an MPE that addresses co-location for simultaneous transmissions in accordance with FCC KDB # 447498). There is a stand-alone MPE calculation in the WLAN RF report, but this does not address the co-location with the other transmitters. There is no MPE calculation in the GPRS application for either stand-alone or co-location with other transmitters. Please update the applications to include Co-located RF Exposure.

Ans: Please see the APPENDIX III for MPE as the attachment.

AN08T8259

For the 319MHz transmitter, please provide the RF Block Diagram (the one submitted is general and not 319MHz specific) and the RF schematic for the GE RF module Board.

Ans: Please see the RF Block Diagram as the attachment.

The RF schematic, please see the page 13 of the schematic, thank you.

The online application form for the 319MHz stated a frequency range of 319.2 - 319.8 MHz. Please confirm that I can change this to the actual 319.5MHz center frequency.

Ans: Yes, the actual 319.5MHz center frequency.

The emission is pulsed, so per FCC 15.35 the Peak emission level shall be measured and the calculated Duty Cycle should be applied to determine the Average value of the emission. The data does not appear to have been measured/calculated per this FCC requirement. Please also show the calculation to get the fundamental and spurious emission limit.

Ans: Please see page 20 of the test report as the attachment.

AN08T8260

For the ZWave 908MHz transmitter, please provide the RF Block Diagram (the one submitted is general and not 908MHz specific) and the RF schematic for the ZWave 908MHz RF module Board.

Ans: Please see the RF Block Diagram as the attachment.

The RF schematic diagram, please see the page 12 of the schematic, thank you.

~~AN08T8261~~

~~The RF test Report for the 15.249 operation in 902-928 MHz band has no compliance data for the fundamental emissions. Please revise the RF Report for the ZWave 908MHz transmitter to include all compliance data and information.~~

It is difficult to determine if this device contains a USB or Serial port for connection to a PC or computer. If this does, then the Computer peripheral portion of this device must be approved by either FCC DoC or Certification. The Label does not contain the FCC logo for DoC compliance, and there are no JBP equipment class applications submitted for Certification. Please explain and provide documentation as needed.

Ans: Please see the revised label format as the attachment.

AN08I2558

Industry Canada requires that the Model Number be listed on the Label of the product. Please submit an updated Label exhibit that includes the Model number(s) for the IC application.

Ans: Please see the revised label format as the attachment.

Please submit the completed IC RSS-102 Annex A Section 4 for RF exposure (only Annex A sections 1-3 and Annex B section was completed).

Ans:

RF exposure evaluation is required if the separation distance between the user and the device is greater than 20 cm, except when the device operates:
at or above 1.5 GHz and the e.i.r.p. of the device is equal to or less than 5 W.

Sorry, Please see the revised test report for 319MHz (page 26) and test report for GPRS(page 4,10,16,19) as the attachment.

Please submit Industry Canada RF Test Reports for the GPRS, WLAN, and 908MHz transmitters (currently only the 319.5MHz IC test report has been submitted).

Also, please provide appropriate Appendix B, test report cover sheet(s) for all transmitters in this device.

Ans: Sorry, we submit Industry Canada RF Test Reports for the GPRS, WLAN, and 908MHz transmitters, Appendix B, test report cover sheet(s) for all transmitters.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

Best regards,

Chris Harvey
charvey-tcb@ccsemc.com