

vicky.liu
劉淑芳

收件人： lucy.tsai@ccsemc.com

副本抄送： mike.kuo@ccsemc.com, application@tw.ccsemc.com

主旨： RE: Billionton Systems Inc., FCC ID: NLF-GMHSBTAT, Assessment NO.:

2007/08/22 10:38 AM AN07T7121, Notice#1

Dear Lucy,

Thank you for your reply and please find the attachment for Operation Description and Label Drawing and Location.

Vicky Liu 劉淑芳

Certification Dept.



Compliance Certification Services Inc.
Rm.258, Bldg.17, No.195, Sec.4, Chung
Hsing Rd., Chutung, Hsinchu, Taiwan, R.O.C.
Tel: 886-3-5910068 EXT: 504
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----- 轉呈者 vicky.liu/ccsemc 於 2007/08/22 10:29 AM -----

"Lucy Tsai"
<lucy.tsai@ccsemc.com>

收件人： "vicky.liu" <vicky.liu@tw.ccsemc.com>

副本抄送： "Mike Kuo" <mike.kuo@ccsemc.com>, <application@tw.ccsemc.com>

主旨： RE: Billionton Systems Inc., FCC ID: NLF-GMHSBTAT, Assessment
NO.: AN07T7121, Notice#1

2007/08/21 02:55 PM

Hi Vicky,

For Q#2, it's not acceptable. Noted that no one will think that Bluetooth audio transceiver (refers to the EUT) is equal to PA. Moreover, if the PA here really means EUT, why the measured value of output power was only upto 7.7dBm but not 17dBm. PA is very critical issue in FCC filing, therefore, again, it's suggested to revise the theory of operation and user manual to consist with the filing.

As for Q#3, please be noted that grant can't be issued till all questions have been addressed.

Best Regards,

Lucy

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

From: vicky.liu [mailto:vicky.liu@tw.ccsemc.com]

Sent: Monday, August 20, 2007 11:36 PM

To: Lucy Tsai

Cc: Mike Kuo; application@tw.ccsemc.com

Subject: FW: Billinton Systems Inc., FCC ID: NLF-GMHSBTAT, Assessment NO.: AN07T7121, Notice#1

Dear Lucy,

Thank you for your reply and my answer is as belowing.

Regarding Q#2, the theory of operation is same as original submission, please resend. Besides, according to your answer, an external PA will be added to reach 17dBm which doesn't agree with the filing. Be noted that if an external PA will be added, then please submit all related information regarding this external PA for investigating in order to meet the requirement of section 15.204. Otherwise, please remove it from the theory of operation and revise the output power in the user manual to match the filing as well.

Ans: Please find the attachment for Description of Operation. The external PA means the EUT.

(Note: +6dBm RF transmit power is mentioned in **CSR chip SPEC**, this case is Bluetooth class 1 and **a external PA** is added then the output power can reach around +17dBm)

As for Q#3, you didn't answer it and please address it again.

Ans: The client does not decided how to show the label, so I can not upload.

Vicky Liu 劉淑芳

Certification Dept.  

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----- 轉呈者 vicky.liu/ccsemc 於 2007/08/21 02:27 PM -----

"Lucy Tsai"
<lucy.tsai@ccsemc.com>

收件人: <vicky.liu@tw.ccsemc.com>
副本抄送: "Mike Kuo" <mike.kuo@ccsemc.com>

2007/08/21 02:06 AM

主旨： FW: Billionton Systems Inc., FCC ID: NLF-GMHSBTAT, Assessment
NO.: AN07T7121, Notice#1

Hi Vicky,

Regarding Q#2, the theory of operation is same as original submission, please resend. Besides, according to your answer, an external PA will be added to reach 17dBm which doesn't agree with the filing. Be noted that if an external PA will be added, then please submit all related information regarding this external PA for investigating in order to meet the requirement of section 15.204. Otherwise, please remove it from the theory of operation and revise the output power in the user manual to match the filing as well.

As for Q#3, you didn't answer it and please address it again.

Best Regards,

Lucy

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

From: vicky.liu [mailto:vicky.liu@tw.ccsemc.com]

Sent: Monday, August 20, 2007 2:57 AM

To: Mike Kuo

Cc: Lucy Tsai; application@tw.ccsemc.com

Subject: Billionton Systems Inc., FCC ID: NLF-GMHSBTAT, Assessment NO.: AN07T7121, Notice#1

Dear Mike,

Thank you for your reply and my answer is as belowing.

Q#1: Antenna specification and user manual indicated antenna is dipole with is 2dBi gain which doesn't agree with 1.8dBi monopole antenna listed in test report, please clarify.

Ans: The correct antenna is dipole with 2dBi and please find the attachment for test report.

Q#2: User manual mentioned this is a class 2 Bluetooth device with maximum output power 17dBm which is different from operational description and test report.

Per operational description, 6dBm is CSR chip's specification and for this case, the output power will always under 4dBm. As for test report, the maximum output power is 7.55dBm. Please clarify and make proper correction as well.

Ans: I have revised the operation description and please find the attachment.

**The User manual indicated that this is a class 1 Bluetooth device with max output power is 17dBm, and it just mean the maximum outpower.

**The operation description indicated as belowing.

Up to +17dBm RF transmit power with level control from the on-chip 6-bit DAC over a dynamic range greater than 30dB.(Note: +6dBm RF transmit power is mentioned in CSR chip SPEC , this case is Bluetooth class 1 and a external PA is added then the output power can reach around +17dBm)

Q#4: Both radiated and AC line conducted emission tests have 2 sets of test data below 1GHz and test mode specified for both are ¡§normal

operating (worst-case) i§.
By looking into the setup photos, two spurious emission modes indicated as i§from notebook PCi" and i§from power adapteri". If they are the modes for the result below 1GHz, then clearly indicate them into each test result.

Ans: Please find the attachment for test report.

Vicky Liu 劉淑芳

Certification Dept.



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----- 轉呈者 vicky.liu/ccsemc 於 2007/08/20 09:09 AM -----

"Mike Kuo"

<mike.kuo@ccsemc.com>

2007/08/18 04:45 AM

收件人: <application@tw.ccsemc.com>

副本抄送: "Lucy Tsai" <lucy.tsai@ccsemc.com>

主旨: Billinton Systems Inc., FCC ID: NLF-GMHSBTAT, Assessment NO.: AN07T7121, Notice#1

Hi Vicky:

Q#1: Antenna specification and user manual indicated antenna is dipole with is 2dBi gain which doesn't agree with 1.8dBi monopole antenna listed in test report, please clarify.

Q#2: User manual mentioned this is a class 2 Bluetooth device with maximum output power 17dBm which is different from operational description and test report.
Per operational description, 6dBm is CSR chip's specification and for this case, the output power will always under 4dBm. As for test report, the maximum output power is 7.55dBm. Please clarify and make proper correction as well.

Q#3: Since the EUT is not too small that FCC Part 15.19(a) statement shall always be added on the label. Please revise the label.

Q#4: Both radiated and AC line conducted emission tests have 2 sets of test data below 1GHz and test mode specified for both are i§normal operating (worst-case) i§.
By looking into the setup photos, two spurious emission modes

indicated as ;\$from notebook PC;" and ;\$from power adapter;". If they are the modes for the result below 1GHz, then clearly indicate them into each test result.

Best Regards,

Mike Kuo

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.

No virus found in this incoming message.

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Version: 7.5.484 / Virus Database: 269.12.0/957 - Release Date: 8/16/2007 1:46 PM

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