From: Tom Cokenias [tom@tncokenias.org]
Sent: Thursday, July 18, 2002 11:51 AM
To: Mike Kuo
Subject: Re: FW: Root Inc, FCC ID:NN4RGW2400-OD, AN02T2108

Hello Mike,

Answers follow questions.

best regards

Tom

>-----Original Message-----
>From: CERTADM
>Sent: Wednesday, July 17, 2002 3:39 PM
>To: 'mkuo@ccsemc.com'
>Subject: Root Inc, FCC ID:NN4RGW2400-OD, AN02T2108
>
>
>Notice_content
> -------------
>Question #1: The frequency range indicated on the TCB application form is
>from 2432 - 2447 MHz. This frequency range has been repeated in the test
>report as well. However, the minimum 6dB BW listed and measured with
>frequency range from 2412-2472MHz, RF output power listed and measured with
>frequency range from 2412-2472MHz, Conducted spurious emission listed and
>measured with frequency range from 2412-2472MHz, Power Spectral Density
>measured with 2412 and 2443 MHz only.
>
>Please review the test report named " Supercede " and provide any necessary
>corrections.

ANS #1 I have corrected and submitted the test report to show 2412 - 2472 MHz coverage. This product can be used with a variety of antennas, the ones currently being certified will be limited to the range 2432 - 2447 MHz due to gain at the bandedge. Other antennas will be added in the future (by class 2 pc) which will be useable at other channels.

>Question #2: There are four separation radiated bandedge measurements were
>made and submitted as separate attachments. One of file named " Directional
>15dBi" contains failing data. Please review your data.

ANS#2 The Directional 15 dBi is a preliminary data file and was sent to you in error. The radiated bandedge emissions are in the body of the test report. I have submitted a new file to the website HIGHfreq 15 dBi Antenna.xls, which contains radiated data to 10th harmonic for the 15 dBi directional antenna.

>
>Question #3: Please provide radiated spurious emission data to 10th
>harmonics for Directional antenna with 15dBi gain.

ANS#3 Done, see answer 2.

>
>Question #4: Do you want to certify this device under DTS or Spread Spectrum
>transmitter ? Please know, the new docket for DTS will only be effective
>after July 25, 2002.

ANS#4 Please certify this product as DTS. Please let me know by
return when you will issue grant for this application, if you are
satisfied with the answers presented here

>
>Question #5: Please provide MPE estimate result.

ANS#5 Confirmation indicates successful upload of RGW2400 OD MPE.pdf
which is the mpe information. I will upload it again.

>
>Question #6: There is no RF exposure warning statement in the user manual,
>Please provide revise user manual to comply this requirement.

ANS#6 I have uploaded modified user manual with the required statement.

>
>Question #7: This question is related to Question #1, the user manual
>indicate the TX range is from 2412- 2462 with max. output of 10mW/MHz.
>Please make sure the technical specification contains in the user manual
>agree with the measurement result.

ANS#7 User manual has been corrected to show 2412-2472 MHz coverage.
Test report has been corrected for frequency range, see ANS#1.
Intersil which makes the PRISM chipset used with this product says
design power output is 18 dBm, with variation. I have uploaded pdf
files Power distribution.pdf and US power out.pdf from Intersil
supporting this. Their numbers are consistent with a maximum 10
dBm/MHz power density.

Best regards

Tom

>
>Best Regards
>
>Mike Kuo / TCB Certifier
>The items indicated above must be submitted before processing can continue
>on the above referenced application. Failure to provide the requested
>information within 60 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.