

From: Raj, Hans (Hans) [hansraj@agere.com]  
Sent: Friday, September 27, 2002 1:24 AM  
To: Nakamura, Norimasa; Raj, Hans (Hans); Hoekstra, Frans (Frans);  
Suzuki, Atsuhiko (Steve); Takahashi, Keiichi (Keiichi); Furuno,  
Yoshinori (Yoshi)  
Cc: TAIS Peter Leone  
Subject: RE: [URGENT!!] Special Tuned Agere Ruby

Dear Norimasa-san,

Pls find the response from our Regulatory Team;

-----  
-----  
on each radio grant FCC mentions the Output Power in Watts of the product.  
But one can measure the power in different ways, e.g.:  
- average power,  
- peak power.

The value FCC uses on the grant is the peak power and that value is higher  
than the (average) value that relates to the value we use in specifications  
(= average power!).

So Cetecom measured 0.085 mW (19 dBm) peak power and the measured average  
power on the connector should be around 15 dBm.

Thus we do not have to provide cards with changed output power!  
The test house Toshiba uses can check the peak power value conform FCC  
requirements when they perform the SAR tests.

-----  
-----  
I hope this helps so pls contact me if you have any further questions.

Kind Regards

---

Hans Raj  
Program Manager OEM  
agere systems  
Office: 30 607 6510  
Cell : 6 5577 3218  
Fax : 30 609 7556  
eMail : hansraj@agere.com

---

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

From: Nakamura, Norimasa [mailto:norinakamura@pc.ome.toshiba.co.jp]  
Sent: Friday, September 27, 2002 4:17 AM  
To: Agere Raj Hans; Agere Frans Hoekstra (orinoco); Agere Steve Suzuki  
(orinoco); Agere Takahashi; Agere Yoshi Furuno (orinoco)  
Cc: Nakamura Norimasa; TAIS Peter Leone  
Subject: [URGENT!!] Special Tuned Agere Ruby

Dear Hans san,

Maybe, this is first mail for you.

I am Nori Nakamura. I am in charge of HW of Wireless LAN for Toshiba Note Book PC at Ome and I am working with Kasuga san.

I have ask favor for you.

We have a plan to launch new PC which has Ruby Mini PCI and Bluetooth on end of Oct. '02.

We are working w/ the test lab. of CCS (Compliance Certification Service) in US to obtain FCC now.

Since the antenna of new PC is located near human body, it is mandatory to measure SAR as system and we intend to do C2PC (Class 2 Permissive Change) against already approved certification of Ruby (Please see attached file).

As you may know, we have obtained FCC grant by using Ruby w/ CETECOM Germany on the beginning of this year. However, the output power is described as '0.085w' (about 19dBm) on FCC Grant, even if the specification of Ruby out put power is 15dBm -2dB.

What we are facing the problem is Since we can not reach the 19dBm output power by using current Ruby (actual output power is 16.2dBm), we concern FCC will claim us that we do not measure SAR on max. output power condition (19dBm).

Therefore, would you please provide us with the 2 sets of Ruby which has 0.085W output power for SAR measurement purpose only?

If it is possible, would you please send them to the address below ?

Mr. Mike C. I. Kuo

Vice President  
Compliance Certification Service (CCS)  
561F Monterey Road, Morgan Hill, CA 95037-9001

Email : [mkuo@ccesmc.com](mailto:mkuo@ccesmc.com)  
Tel : (408) 463-0885 ext. 105  
Fax: (408) 463-0888

If you have any question, please let me know immediately.

Best Regards,

Nori Nakamura  
Group 5 PC Design Dept. 1  
Digital Media Development Center  
TOSHIBA CORPORATION  
Tel : 428 34 2397 /Fax : 428 30 7432