

Nov. 6, 2002

Federal Communication Commission  
Authorization & Evaluation Laboratories  
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Columbia MD 21046

Attn: Mr. Katie Hawkins

Subject: Audit the project FCC ID: PNKSHIU02

Regarding to your review comments, please see the response listed as below:

1) The main function of EUT are (1) 2.4GHz Rx and (2) 433.92MHz Tx.

For Tx function, the EUT translate the IR signal to RF signal.

For EUT's worse case condition, we assume the duty cycle approximate to 100% due to the kinds of IR controller (you may check the original report). So, we did the radiated emission test under this test condition, but we miss the detector of frequency above 1GHz.

As per your mentioned, we have to provide the duty cycle correction factor to the peak reading. The measurement has been done and you may check the file "Duty cycle plot.pdf".

The measurement was performed at its normal operation mode. During the measurement, an IR controller (DVD player) was used for EUT's translation.

The formula " $CF = 20 \log(\text{duty cycle})$ " was used to calculated the correction factor.

The details are:  $CF = 20 \log(9.56/97.1) = -20.13\text{dB}$ .

Please note that the correction factor will base on the control code of different IR controller.

2) For the explanation of Auto Scan function, please find the attachment that provide by client for your reference.

I hope the attachments satisfy all your requirements for reviewing this application.

If you have any questions, please feel free to contact me.

Best Regards,



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