

From: Tom Cokenias [tom@tncokenias.org]
Sent: Friday, December 06, 2002 8:44 PM
To: Mike Kuo
Subject: Re: FW: Carlson Wireless Technologies Inc., FCC ID:OPA-FT-512,
AN02T2 419

Hi Mike,

Answers follow questions.

Hopefully you have all you need to issue certification for this application. If not, please let me know and i will see to it that you get the information you need.

best regards

Tom

>-----Original Message-----

>From: CERTADM
>Sent: Thursday, December 05, 2002 11:42 AM
>To: 'mkuo@ccsemc.com'
>Subject: Carlson Wireless Technologies Inc., FCC ID:OPA-FT-512,
>AN02T2419
>
>
>Notice_content
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Question #1: Please provide external 24dBi antenna photo.

ANS 1 Photo attached

>
>Question #2: Please provide Radiated spurious emission test setup photos to
>show the conditions for integral antenna and external antenna.

ANS 2 Photos attached

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>Question #3: Only channel 1 and Channel 4 radiated spurious emission data
>were provided for external antenna. Please provide radiated data for
>Channel 5.

ANS 3 With the external antenna we could not use Ch 5 because of bandedge emissions in restricted band. Ch 1 and Ch4 are the highest and lowest frequencies that can be used with the external antenna. I have added a note to this effect on page 35 of the user manual, red font for your convenience.

>
>Question #4: Which antenna portion was measured for RF conducted output
>power? Internal antenna connector or external antenna connector.

ANS 4 The conducted output measurements were done at the N connector. Please refer to attached photos for details. The internal antenna is mounted in the case and has a cable that permanently attached at the antenna, and has a reverse SMA connector at the other end. The reverse SMA goes to a mating connection at the radio circuit can. When using the external antenna, the internal antenna cable is disconnected, and the coax cable attached to the N connector was attached to the radio. Since both coax cables are the same length, the cable loss is the same, so the same power would be delivered to the N connector or to the internal antenna

>
>Question #5: Please include these wordings in the RF warning statement in
>the user manual " Must not be co-located or operating in conjunction with
>any other antenna or transmitter ".

ANS 5 I have updated page 42 of the manual to include this wording.
The wording I added is in red type for your convenience.

>
>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 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.