

Marianne Bosley

From: alice_wong [alice_wong@hkstc.com]
Sent: Thursday, January 09, 2003 10:17 PM
To: mbosley@metlabs.com
Cc: EED - Choy, Kitty; tcbinfo@metlabs.com
Subject: Request for Technical Info on FCC ID:QQ7EGUARDEAS02 and QQ7EGUARDEAS01

> Answer:
> 1.EUT is Digital sweep. It would send different code to receiver.
>
> 2.For the radiated Emission frequency range from 1.705MHz to 1000MHz(
S15.223
> and S15.209)
>
> 3.The sample was placed 0.8m above the ground plane on the OATS *.
> Measurements in both horizontal and vertical polarities were performed.
> During the test, each emission was maximized by: having the EUT
continuously
> working, investigate all operating modes, rotated about all 3 axis (X, Y &
> Z) to obtain worst position, manipulating interconnecting cables, rotating
> turntable, varying antenna height from 1m to 4m in both horizontal and
> vertical polarizations. For the Loop antenna, Antenna height is 1m and it
> would be rotated per 45 degree . The emissions worst-case are shown in
Test
> Results .
>
> 4.We would attach Loop Antenna correction factor to you. Model :6502,
> S/N:2424
>
> 5.EUT center frequency is 8.58MHz upper band edge is 9.0775MHz and lower
> band edge is 8.0825MHz (QQ7EGUARDEAS01)
> EUT center frequency is 8.2MHz upper band edge is 8.725MHz and Lower
band
> edge is 7.67MHz (QQ7EGUARDEAS02)
>
> 6. Renew test report for duty cycle.
>
> ----- Original Message -----
> From: "alice_wong" <alice_wong@hkstc.com>
> To: "M K Law" <mankit_law@hkstc.com>
> Cc: "EED - Choy, Kitty" <kitty_choy@hkstc.com>
> Sent: Friday, January 03, 2003 9:01 AM
> Subject: Fw: Request for Technical Info on FCC ID:QQ7EGUARDEAS02
>
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>
> ----- Original Message -----
> From: <MBosley@metlabs.com>
> To: <alice_wong@hkstc.com>
> Sent: Friday, January 03, 2003 12:35 AM
> Subject: Request for Technical Info on FCC ID:QQ7EGUARDEAS02
>
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>
> > Hi Alice,
> >
> > Same technical questions for this one as for the other one:
> >
> > RT questions:
> >

> > > Was the frequency sweep stopped while radiated measurements were made?

> > > What is the frequency range of the sweep?

> > > Does the EUT employ an analog sweep (continuous, sliding over all frequencies in the band) or a digital sweep (discrete frequencies hopped to very rapidly)? If it is a digital sweep (as most modern systems are), then none of the discrete frequencies on which it lands may be in a restricted band, as defined in Section 15.205. What discrete frequencies are used?

> > > Please address.

> > > Was a loop antenna used for radiated measurements? If not, please remeasure with a loop antenna- a rod antenna may not be used. If so, was it both rotated on its vertical axis AND placed in the horizontal plane as well,

> > per

> > > ANSI C63.4 Section 8.2.1?

> > > The "correction factors" listed in the radiated emissions data table seem quite low for the antenna, compared to those used for many loop antennas.

> > > Please address.

> > > When calculating the duty cycle correction factor, please note the following: a duty cycle correction factor is NOT applied to an analog system. For digital systems, the averaging factor described in Section 15.35 may be applied, based upon how much time the signal actually spends on each discrete channel during a 100 ms interval. If the EUT goes through its hopset and returns to the same frequency during the 100 ms interval, then the total occupancy time on that frequency during the 100 ms interval should be used in calculating the duty cycle correction. Note that if the hopping frequency channels are so close that more than one of them falls within the 9 kHz bandwidth required for measurements, then the duty cycle correction must include the total time spent on all of the channels within that 9 kHz band during the 100 ms measurement interval. Please address.

> > >

> > > Marianne

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