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Currently Display Inquiry Tracking Number: **204550**

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 Zip Code:
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Inquiry Details:

First Inquiry Category: **Radio Frequency Exposure - MPE; SAR**
 Second Inquiry Category: **Specific Absorption Rate**
 Third Inquiry Category: **Non-handset SAR**

Dear FCC Lab

Applicant is **EDIMAX TECHNOLOGY CO., LTD.**, FCC ID is **ND9578221026**

Please find the attached file for our proposed test orientations and configurations. The device is 802.11b/g/n USB dongle, whose USB connector is fixed type. Its antenna can swivel between 0 and 180 degrees in straight and vertical modes.

Because of the separation distance between the antenna and flat phantom for USB dongle 4 faces is almost the same. We suggest to test 5 positions with 4 faces. First, test all four sides of the USB dongle in antenna straight mode. Then, test the tip of the USB dongle.

Please kindly advise whether the suggested test configurations are suitable and enough.

Thanks a lot.

B.R.
 Roy Wu / Sporton Lab.

Response(s):

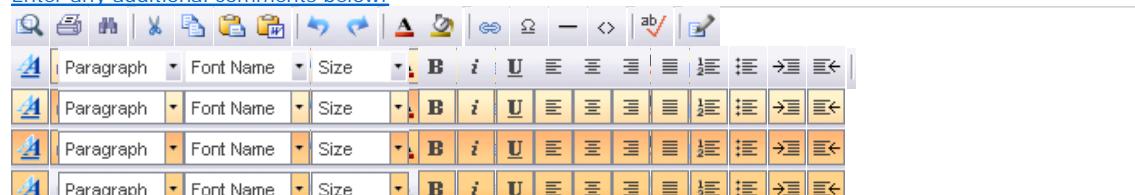
--OET response sent on Feb 4 2011 2:33PM--

Test the *Horizontal Up* and *Horizontal Down* positions of the dongle with the antenna connected in straight mode at a 5mm distance to the SAR phantom. The testing of the antenna tip is not necessary. If the two measured SAR levels are similar, additionally test the *Horizontal Up* position with the antenna at 90 degrees, perpendicular to the phantom (antenna pointing down and away from the phantom). A 5mm separation distance to the phantom would again apply. With these 3 test positions, SAR testing conditions for this dongle will be satisfied unless the following occurs:

If the SAR levels for the *Horizontal Up* and *Horizontal Down* positions of the dongle in antenna straight mode are not similar, then the antenna is not symmetrical and the *Vertical Front* and *Vertical Back* positions in antenna straight mode also need to be tested at a 5mm distance to the SAR phantom (a total of 5 test positions, if necessary).

It appears the difference in reported SAR for the *Horizontal Up* and *Horizontal Down* positions is not large, but the SAR plots need to be reviewed for symmetry. If the plots show similar areas of SAR distribution, then the additional vertical tests would be unnecessary.

Enter any additional comments below:



Attachment List:

[SAR Test Proposal for USB Dongle with rotatable Ant](#)

[**Proceed**](#) [**Clear**](#)

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B.R.
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Last Reviewed/Updated on 06/19/2009

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