

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

From: oetech@fccsun27w.fcc.gov

To: alondra@hct.co.kr

Sent: Wednesday, February 10, 2010 4:44 AM

Subject: Response to Inquiry to FCC (Tracking Number 629959)



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Office of Engineering and Technology

Inquiry:

Dear FCC,

I'm writing to get your guidance for SAR evaluation.

- 1) FCC ID: XAVVW140
- 2) EUT Type: USB Dongle
- 3) FCC Rule Part(s): 22(H)/ 24(E)
- 4) Equipment Class(es):
 - PCB: PCS Licensed Transmitter
- 5) Operating Mode: CDMA835/ PCS1900
- 6) Key Feature: EVDO Rev.0, Rev.A

It has the external swivel antenna.

USB horizontal-A : in/ straight out
USB horizontal-B : in/straight out
USB vertical-C : in/straight out
USB vertical-D : in/straight out

USB tail : in/ antenna 90° straight out

we can cover all test orientations with above configurations?
After checking this, please confirm this is available for SAR testing.
Should you have any questions, please let me know.

Best Regards,
SunHee Kim

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Assistant Manager, SAR/HAC Team
HCT Co.,Ltd (Hyundai Calibration&Certification Technologies Co., Ltd.)
San 136-1, Ami-ri , Bubal-eup, Icheon-si, Kyoungki- do, Korea (467-701)

TEL.: (82-31) 639-8565
FAX : (82-31) 639-8535
C.P: (82-10) 8838-9875

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Response:

Because of the unique external antenna on this dongle, the orientation of the USB connector on the device and the orientation of the USB laptop ports do not matter. All test positions should have a 5mm or less separation distance between the dongle and the SAR phantom. Three sides and the end/tip (without the USB connector) of the dongle need to be tested. The narrow side without the antenna does not need to be tested.

The following 10 test orientations/configurations apply for this USB dongle:

Test the three sides with the antenna in (3 tests).
Test the three sides with the antenna straight out (3 tests).
Test the end/tip of the dongle with the antenna in (1 test).

From your VW140 attachment, see 2) Antenna Out photos:

Test the two wide/fat sides of the dongle with the antenna out at 90 degrees as in the second photo (2 tests).

Test the narrow side (containing the antenna) with the antenna out at 90 degrees as in the fourth photo. In order to do this test, the antenna needs to be perpendicular to the end/tip of the dongle (not parallel with the end/tip, as is shown in the fourth photo). (1 test)

VW140 How to use Antenna

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How to use VW140 Antenna

1) Antenna In

Normally you can just use VW140 like below picture.



2) Antenna Out

To get better performance for Data SVC, please pull out antenna and keep direction of antenna upward. Since each laptops have different locations of USB Port, you have to adjust direction of antenna as upward.

