Mike Kuo

From: 이원정 [leewj@digitalemc.com]
Sent: Monday, May 17, 2010 4:09 AM
To: Mike Kuo
Cc: 'Harvey Sung'
Subject: RE: Infomark Co., Ltd., FCC ID: YCO-IMW-C610W, Assessment NO.: AN10T0337, Notice#1
Attachments: YCO-IMW-C610W.ZIP

Dear Mike Kuo,

I am so sorry for late response.
Could you please review below my response?

And I need your help.
Our customer has to send a certificate of this project to their buyer until 20th May.
Therefore I would be grateful if you could issue the certificate ASAP.
If there is problems in the response or you need the other documents, please let me know.
Then I will reply to your e-mail immediately.

Best regards,
Will

Question #1: Please include in the Part 27 test report with the following information :
A. Name of vector form files used.
Response) Refer to 3 page of the attached file.(RF Test Report(WIMAX)-1-rev.1_YCO-IMW-C610W.pdf)

B. Radio parameter of each vector form file including :
1. UL: DL Symbol Ratio
Response) Refer to 3 page of the attached file.(RF Test Report(WIMAX)-1-rev.1_YCO-IMW-C610W.pdf)

2. Number of traffic symbols at the max. power
Response) Refer to 5 page of the attached file.(RF Test Report(WIMAX)-1-rev.1_YCO-IMW-C610W.pdf)

3. The conditions of control symbols (inactive or active)
Response) Refer to 5 page of the attached file.(RF Test Report(WIMAX)-1-rev.1_YCO-IMW-C610W.pdf)

4. Modulation Type and associated channel BW.
Response) Refer to 3 page of the attached file.(RF Test Report(WIMAX)-1-rev.1_YCO-IMW-C610W.pdf)

5. Zone Type (PUSC or AMC). If the control symbols are handled differently in PUSU and AMC zone type, please indicate so.
Response) The control symbols are handled equally in PUSC and AMC zone type.

6. Code Rate
Response) Refer to 3 page of the attached file.(RF Test Report(WIMAX)-1-rev.1_YCO-IMW-C610W.pdf)

C. Name of programs filed loaded in the support PC in controlling the power.
Response) Refer to 5 page of the attached file.(RF Test Report(WIMAX)-1-rev.1_YCO-IMW-C610W.pdf)

Question #2: Please indicate the RBW/VBW and detector settings used for

radiated spurious emission and RF conducted spurious emission tests.
Response) The Radiated spurious emission was based on the use of spectrum analyzer employing a RBW/VBW = 5MHz(OBW: 5MHz)
and 10MHz(OBW: 10MHz) with peak detector mode.
And RBW/VBW and detector mode were used for conducted spurious emission as below,
- below 1GHz: RBW/VBW = 100KHz, peak detector mode
- above 1GHz: RBW/VBW = 1MHz, peak detector mode

Question #3: Based upon the functions of this device, the WiMAX and WLAN should be able transmitting simultaneous. Please confirm this understanding. If WiMAX and WLAN can transmit simultaneously, please include simultaneous RF exposure conditions if the WiMAX and WLAN antenna separation is less than 20 cm.
Response) Please refer to the attached file(MPE Calculation-rev.1_YCO-IMW-C610W.pdf).

Question #4: Based upon the definition of Matrix A in 802.16e specification, the WiMAX antenna is TX diversity antenna which means WiMAX-L and WiMAX-R can be transmitting antenna but L and R will not transmit simultaneous. Can this device support Matrix B as well? If not, please update the theory of operation. If yes, does Matrix B mode be investigated?
Response) This device does not support the Matrix B. Therefore the theory of operation is revised.
Please refer to the attached file(Operational Description-rev.1_YCO-IMW-C610W.pdf).

DigitalEMC

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