

Lucy Tsai

From: Keith Richens [keith.rich@cranage.co.uk]
Sent: Tuesday, September 16, 2008 8:43 AM
To: Lucy Tsai
Subject: RE: Vibration Technology Limited, FCC ID: KQ9KQ9VIB-0006B, Assessment NO.: AN08T8128, Notice#2
Attachments: VIB-E-US-389B-1.1.pdf; R3088 - Part 1 of 2.pdf; R3088 - Part 2 of 2.pdf; R3088 - Internal Photographs.pdf; Sercel_ID_letter.pdf; VIB-E-DD-011A-1.1.pdf; VIB-E-DD-011B-1.1.pdf

Dear Lucy

Please find our responses below to your questions.

Sorry for the time this has taken, I have been working away for a few weeks.

Best regards

Keith

Cranage EMC Testing Ltd

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

From: [Lucy Tsai](#)
To: [Keith Richens](#)
Sent: Monday, August 11, 2008 7:09 PM
Subject: RE: Vibration Technology Limited, FCC ID: KQ9KQ9VIB-0006B, Assessment NO.: AN08T8128, Notice#2

Hi Keith,

Thanks for your patience.

I have reviewed the whole application again and have following issues needed to be further addressed.

Q#1: Please confirm if this is a point-to-multiple point or a point-to-point device. Please be noted that the output power requirement may be different according to product design per 15.247.

For example, 15.247(c) (i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

A#1: The report states that the equipment is a point-to-multipoint device.

Each transmitter connects to its own dedicated antenna.

As stated in FCC Pt 15, Subpart C Section 15.247 'Transmitters that emit a single directional beam shall operate under the provisions of paragraph (c)(1) of this section.

Paragraph (c)(1) excludes point to multipoint devices and therefore paragraph (b)(4) applies.

Paragraph (b)(4) states that if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated value of 1Watt, by the amount in dB that the directional gain exceeds 6 dBi.

Q#2: Regarding original Q#1, it's accepted. However, according to KDB 852143 Authorized Individual Policy (Form 731), only the person who is listed as the grantee contact person on FCC website can sign the agent authorization letter. As for Vibration Technology Limited, the grantee code contact person is Michael Xie, Senior RF Engineer. Please provide an authorization letter sign by him or update the grantee contact person from FCC website.

A#2: Attached SERCEL ID Letter.

Q#3: Please take another internal photo for page 2-4 by removing the metal shielding.

A#3: Included a photograph with shielding removed. Please find new internal photographs attached.

Q#4: An artwork of label format with FCC ID is required by FCC. Also, please be noted that FCC DOC logo doesn't apply to this device. Please revise it as well.

A#4: Attached two label drawings.

Q#5: Based on the antenna specification, the standard N type connector is used that professional installation is required. Please provide professional installation guide and be noted the antenna type, antenna gain with the RF coaxial cable length, cable loss shall be included.

A#5: Attached Installation Guide VIB-E-US-389B-1.1.

Q#6: Per the Vibtech CAN-II Technical Clarifications (Version 1.0), 5.8GHz is disabled. But per our understanding that the RF module used is also supporting in UNII band I, II and III. However, there are no information mentioned about whether 5150-5350MHz and 5470-5725MHz are also disabled. Please clarify.

A#6: The client states that the RF module is currently software disabled from transmitting in UNII-I, II, and III bands, ie. 5.150GHz to 5.8GHz but also mentions that it can be disabled in manufacture if necessary.

Best Regards,

Lucy Tsai

CCS