

Chris Harvey

From: country@atl-lab.com.tw
Sent: Wednesday, February 25, 2009 6:12 AM
To: Chris Harvey
Cc: charvey-tcb@ccsemc.com; Chris Harvey; chris.harvey@ccsemc.com; joyce@atl-lab.com.tw; Lucy__Tsai <lucy.tsai@ccsemc.com/@atl-lab.com.tw>
Subject: RE: Inventec Corporation, FCC ID: DGIMINERVA3107, Assessment NO.: AN09T8849, Notice#1
Attachments: 0812FS12-01_Inventec_Minerva 3107_OET65 (08-0288).pdf; 0812FR12-01_Inventec_Minerva 3107_P22&24 (08-0288).pdf

Dear Chris:

Sorry to make you trouble.

1. After confirm with our customer, customer provide the updated Antenna spec for the reference.

We already revised the test report according to the updated data and the ERP/EIRP will more closer to IDEA value.

(850 Band: -2.02dB and 1900 Band: -0.59dB)

2. According to KDB4474978 request, the test all USB orientation (Horizontal-up, Horizontal-down, Vertical-down, Vertical-Front, and

Vertical-Back) with a device to phantom separation distance of 5 mm or less. It doesn't need test in TIP.

If you need any information, please feel free to contact with us.

Best Regards
Country Huang

"Chris Harvey" <charvey@ieee.org>
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<charveyemc@gmail.com>

2009/02/24 ¢W¤È 01:41

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¥D¡® RE: Inventec Corporation, FCC ID: DGIMINERVA3107, Assessment NO.: AN09T8849, Notice#1

Dear Country, The difference of antenna gain to EIRP/ERP still seems high. Has the applicant explained why

3/2/2009

their antenna gains provided are so much different from your re-measurements? The statement 2c about the antenna provided to gold sample causes some concern. The sample tested must have the final production antenna, which should have no gain difference from test to final production.

The SAR measurements should correspond to the maximum antenna gain since the SAR measurements are performed on the four sides and the tip. The SAR measurements provided still seem very low compared to the power. This has still not been explained.

¡Please confirm and explain the power levels, antenna gain and SAR values and retest as needed.¡”

Best regards,

Chris Harvey
charvey@ieee.org
410-750-0860

From: country@atl-lab.com.tw [mailto:country@atl-lab.com.tw]
Sent: Friday, February 20, 2009 3:17 AM
To: charvey-tcb@ccsemc.com
Cc: chris.harvey@ccsemc.com; joyce@atl-lab.com.tw
Subject: RE : Inventec Corporation, FCC ID: DGIMINERVA3107, Assessment NO.: AN09T8849, Notice#1

Dear Chris:
I am sorry to reply you so late.
Our anser is as below blue word for your reference.
If you have any other problem, please feel free to contact with us.

Best Regards
Country Huang

Dear Country,

You are listed as the Technical Contact for the above referenced TCB application. The following items need to be resolved before the review can be continued:

1. The Block Diagram exhibit for this application lists WCDMA and GSM operation. The Operational Description exhibit mentions only UMTS operation at 2100MHz, and does not mention any operational parameters or technical information for the GSM operation in the 850 MHz or 1900 MHz bands. Please confirm the capabilities of this device and correct the exhibits as needed.

ATL: It is our negligence, we will correct it.

2. The SAR values documented in the report seem to be very low for a USB dongle with conducted power well over 1 Watt and gain of 4.9 dBi a separation of 5mm. The Conducted power and the stated antenna gain do not match the measured ERP and EIRP values. Please confirm and explain the power levels, antenna gain and SAR values and retest as needed.

ATL: The analyzed result:

2a. Because customer only provide Max Gain is 4.8dBi, it cause the theory EIRP value is different to the actual measurement. However, even we got the original Antenna gain list that customer provided, the discrepancy

still be large.

Please see attached for your reference..

2b.By the way, we also measure 3D Gain for the EUT antenna, the gain is discrepancy to the Gain list the customer provided, but closer to the theory EIRP value.

Please see attached.

2c.As customer responds, it will have some differences between actual shipping Antenna and Gold sample.

We also provide as attached for your reference.

2d.Meanwhile, the SAR value is less case to the Antenna radiated direction toward to EUT TIP, not SAR measured direction.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

Best regards,

Chris Harvey
Charvey-tcb@ccsemc.com