

## Chris Harvey

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**From:** Thomas Cokenias [tom@tncokenias.org]  
**Sent:** Wednesday, June 07, 2006 9:35 PM  
**To:** charvey-tcb@ccsemc.com charvey-tcb@ccsemc.com  
**Subject:** Re: Alvarion Ltd., FCC ID: LKT-VL-53C, Assessment NO.: AN06T5745, Notice#1

Hi Chris,

Answers follow questions.

best regards

Tom

On May 22, 2006, at 11:49 AM, <charvey-tcb@ccsemc.com> <charvey- tcb@ccsemc.com> wrote:

> Dear Tom,  
>  
> The initial review of the above referenced TCB application has been  
> performed. The following items need to be addressed before this  
> review can be continued:

>  
> 1. The exhibit for Theory of Operation ('.\_VL53C theory.pdf')  
> apparently contains errors or is not a pdf document as it will not  
> open using Acrobat 7. Please repair and resubmit this exhibit.  
ANS1 Document looks good here, I re-saved and uploaded to website.

>  
> 2. Please provide Internal Photographs, Letter of Authorization  
> from Alvarion to Tom Cokenias, RF Exposure compliance information  
> (MPE Calculations), Label and Label Placement, Professional  
> Installation Declaration for 15.203 compliance, Internal  
> Photographs, separate test setup photographs,

ANS 2 All documents have been uploaded to website

>  
> 3. Please provide technical information to address section 15.407  
> (c) requirement.

ANS 3 Document uploaded to website

>  
> 4. This device has 3 different Channel Bandwidths, which must each  
> be used along with the 3 available Antenna Gains to determine the  
> Peak Power Limit, Peak Power Spectral Density Limits. This  
> information does not seem to be clearly provided. For example:  
> The maximum measured output power when the radio is configured as  
> access unit is 14.3 dBm (27mW ). In accordance with section 15.407  
> (a)(2): for the band 5.25-5.35GHz, the peak transmit power shall  
> not exceed the lesser of 250mW or 11 dBm+(10logB). The smallest  
> measured emission bandwidth is 11.29MHz, which would equate to a  
> Peak Power Limit of 21.5dBm. In 15.407(a)(2) also mentioned, if  
> transmitting antenna of directional gain greater than 6 dBi are  
> used, both the peak transmit power and the peak power spectral  
> density shall be reduced by the amount in dB that the directional  
> gain of the antenna exceeds 6 dBi.  
> Based upon section 4 of test report, the maximum of 28 dBi antenna  
> gain is used with this unit, so the output power limits for 28 dBi  
> antenna gain shall be 21.5 - (28-6) = -0.5dBm. The measured output  
> power is over the limits. Same situation is also applied to  
> Subscriber unit. Please review the output power and peak power  
> spectral density in conjunction with the 26dB Bandwidths and  
> antenna gains.

ANS 4 New test report has been uploaded to website  
> 5. The Users Manual indicates that there is guidance regarding the  
> Country Dependent parameters, but this information has not been  
> provided with this application. Please provide this information  
> about parameter adjustment (i.e. power) which is provided to the  
> installers to ensure that these devices are installed in a  
> compliant manner.

>  
ANS 5 Manual update pages have been loaded to website  
> 6. The test report declares that testing has been performed in  
> accordance with ANSI C63.4:1992. Please determine if testing was  
> performed in accordance with ANSI C63.4:2003 as required by the  
> FCC, as well as the FCC Measurement guidance for UNII devices and  
> then update the test report accordingly.

ANS 6 Confirmed ANSI C63.4-2003  
>  
> 7. Has the Peak Excursion measurement been evaluated to show that  
> the comparison between the two measured levels is made within the  
> same 1 MHz segment per FCC guidance?

ANS7 I uploaded letter from the lab confirming this  
>  
> 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  
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