

from tim.dwyer@ccsemc.com hide details Feb 11 (1 day ago) [Reply](#)

to temple@ktl.re.kr,
 cc tim.dwyer@ccsemc.com,
 date Feb 11, 2008 4:57 PM
 subject Int information system Co.Ltd, FCC ID: VZAIN910HA, Assessment NO.: AN08T7572, Notice#1

Dear Mr. Kim,

Review of this application is complete. Please reply to the following issues. After these issues are resolved, the grant can be issued.

Q1: The power entered on the application form was entered in mW. As the FCC requires power to be listed in W, we have revised the application to read .00253 W instead of 2.53 mW.

Q2: Radiated band-edge emission measurements at the band-edges 2390 and 2483.5 MHz were not included in the test report. Conducted band edge measurements were included, but conducted measurements do not show compliance with the radiated limits of 15.209 for bands shown in 15.205. This requirement was mentioned in my 23 January email, and is particularly important since the device operates on 2472 MHz. Please provide a revised test report including these measurements.

Q3: The maximum frequency range investigated is not stated in the test report. Please confirm and include in the revised test report that radiated and conducted spurious emissions were investigated up to the maximum required frequency of $10 \times f_0 = 24.72$ GHz.

Q4: Please confirm in the revised test report that exploratory measurements were performed with rotation through 3 orthogonal axes as required by ANSI C63.4.2003 13.1.4.1(c) for hand held devices.

Best regards,

Tim Dwyer
Technical Reviewer

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.

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from Tim Dwyer <Timothy_Dwyer@ieee.org> hide details 9:11 PM (22 hours ago) [Reply](#)

to tim.dwyer@ccsemc.com,
 date Feb 11, 2008 9:11 PM
 subject Re: Int information system Co.Ltd, FCC ID: VZAIN910HA, Assessment NO.: AN08T7572, Notice#1
 mailed-by gmail.com

Dear Mr. Kim,

This revised FHSS test report for AN08T7573 looks ok now. I am replying to the question you asked in your response for that project.

Most labs show 2.4 GHz test report band edge test results using the spectrum analyzer plot similar to the one in your test report, except for field strength instead of dBc. This is the preferred method and is much better because it will clearly show the transmitter operating frequency and characteristics of the signal near the band-edge. You can find many example test reports in the FCC database for product code DTS.

Some test labs show the results in a table with measurement at 2390 MHz and 2483.5 MHz. In this case, you must also clearly state the channel of operation and the bandwidths and detectors used for the measurement.

For either method, both peak and average measurements are required unless the peak measurement is below the average limit.

Best regards,

Tim Dwyer

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from <temple@ktl.re.kr> hide details 7:35 AM (12 hours ago) [Reply](#)

to tim.dwyer@ccsemc.com,
 date Feb 12, 2008 7:35 AM
 subject RE: Int information system Co.Ltd, FCC ID: VZAIN910HA, Assessment NO.: AN08T7572, Notice#1

Dear Mr. Dwyer

I revised the test report as you mentioned below.

I did not recognize the 2472 MHz frequency band is very particularly important thing. So I measured the radiated emission in band edge then attached file in the test report. Also RF conducted band edge is revised up to maximum required frequency.

Please check the report, then let me know it.

Thank you for your advice always.

Best regards

Senior Engineer
Telecommunication team
Korea Testing Laboratory
TEL) +82-31-5000-131
E-mail) temple@ktl.re.kr

bum-jong KIM
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TEST REPORT-WLAN.pdf

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from Tim Dwyer <Timothy_Dwyer@ieee.org> hide details 9:24 AM (10 hours ago) [Reply](#)

to <temple@ktl.re.kr>,
 date Feb 12, 2008 9:24 AM
 subject Re: Int information system Co.Ltd, FCC ID: VZAIN910HA, Assessment NO.: AN08T7572, Notice#1
 mailed-by gmail.com

Dear Mr. Kim,

I looked at the test report. For band-edge measurements it is ok. Also I can see you mentioned testing in 3 axes.

But for maximum frequency investigated, it states 10 GHz. 10 GHz is ok for the 900 MHz transmitters, but for 2.472 GHz transmitters the maximum frequency is $10 \times f_0 = 24.72$ GHz. Also this statement is made in the bandwidth section of the report. It should be placed in the spurious emissions section. So please revise this item in the report one more time and it should be ok.

Best regards,

Tim Dwyer

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from <temple@ktl.re.kr> hide details 7:21 PM (31 minutes ago) [Reply](#)

to Tim Dwyer <Timothy_Dwyer@ieee.org>,
 date Feb 12, 2008 7:21 PM
 subject [REDACTED] Re: Int information system Co.Ltd, FCC ID: VZAIN910HA, Assessment NO.: AN08T7572, Notice#1

Dear Mr. Dwyer,

I'm sorry for the mistake for maximum frequency band. so i revised the test report again.

If all of problems is clear (PDA, RFID and WLAN), when do i expect to get a certificate ?

I appreciate your help.

best regards.

--

: Tim Dwyer <Timothy_Dwyer@ieee.org>

: <temple@ktl.re.kr>;

: 2008.02.12 23:23

: Re: Int information system Co.Ltd, FCC ID: VZAIN910HA, Assessment NO.: AN08T7572, Notice#1

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Tim Dwyer to

show details 7:53 PM [Reply](#)

Dear Mr. Kim,

I checked the new revised report and now all of the issues appear to be resolved.

I will complete the evaluation shortly and request certification. I expect you will receive the grant within 24 hours pending certifier final review.

Best regards,

Tim Dwyer
Technical Reviewer

2008.02.12 23:23 <temple@ktl.re.kr>

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