

Mike Kuo

From: Jenny Chen [jenny.chen@sibercert.com]
Sent: November 25 2003 年 Tuesday 5:03 AM
To: Mike Kuo
Subject: Fw: Reply for Olympus

Dear Mike

We had revised the document. Kindly take a look and let me know.

Your reply to Question #3 : by reviewing the revised test report with revised 20dB bandwidth plots and compared to channel separation. The channel separation in low, middle and high channel are less than 20dB bandwidth measured at low , middle and high channel. Please note the requirement is the channel separation has to be greater than 20dB bandwidth. The submitted revised report still showed non-compliance result.

>> Please refer to pages 12-14 of the report for the remeasurement results.

In the revised 20dB bandwidth plots, I can not determine the marker-delta point on the plots. Please make sure such marker can be seen to make sure the 20dB is properly positioned.

>> Please refer to pages 15-17 of the report for the remeasurement results.

Your revised FCC ID label format is included in the revised test report but the test report is protected with security. Since the FCC ID label format shall be uploaded to FCC under " FCC ID label format and Location " , I have to extract such information from your test report. Please provide the password to unlock the test report so I can extract information from the test report.

Warmest Regards

Jenny Chen

Compliance Manager

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

From: [Mike Kuo](#)

To: ['Jenny Chen'](#)

11/26/2003

Sent: Friday, November 21, 2003 6:12 AM
Subject: RE: Reply for Olympus

Hi Jenny :

Your reply to Question #3 : by reviewing the revised test report with revised 20dB bandwidth plots and compared to channel separation. The channel separation in low, middle and high channel are less than 20dB bandwidth measured at low , middle and high channel. Please note the requirement is the channel separation has to be greater than 20dB bandwidth. The submitted revised report still showed non-compliance result.

In the revised 20dB bandwidth plots, I can not determine the marker-delta point on the plots. Please make sure such marker can be seen to make sure the 20dB is properly positioned.

Your revised FCC ID label format is included in the revised test report but the test report is protected with security. Since the FCC ID label format shall be uploaded to FCC under " FCC ID label format and Location " , I have to extract such information from your test report. Please provide the password to unlock the test report so I can extract information from the test report.

In the future submission, if you enabled security on the PDA file, please let me know what it the password to unlock it. Otherwise, additional TCB questions may be issued to request the information in the right format which may delay the process.

Best Regards

Mike Kuo

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

From: Jenny Chen [mailto:jenny.chen@sibercert.com]
Sent: Thursday, November 20, 2003 3:00 AM
To: Mike Kuo
Subject: Reply for Olympus

Dear Mike

Question #1: Please provide internal photos of Bluetooth SD card used in this PDA.

Answer : Bluetooth card Component and Trace Views (PCB Internal Views) have been added to pages 53 and 54 of the attached test report.

>

> Question #2: Please point out the location of PP8860-R3BZ1000 and
> PP8860-R3BZ0000 antennas in the internal photos.

Answer : Please refer to page 53 of the report for the antenna location. The antenna is located inside the Bluetooth card.

>

> Question #3: Per section 15.247(a)(1) of FCC rules, the frequency hopping
> systems shall have hopping channel carrier frequencies separated by a
> minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever
is
> greater. In the test report, the 20dB bandwidth is measured as 1.242MHz,
> the measured channel separation is 1MHz which lower than the 20dB BW.
> Please address this non-compliance issue.

Answer : A re-measurement on 20dB bandwidth was conducted with RBW=30kHz and VBW=100kHz. Please refer to pages 15-17 of the test reports for the test results and plots. The previous non-compliance was due to the setting of RBW=100kHz. With this setting, the bandwidth obtained may merely traced out the filter of the spectrum analyser used instead of the wanted transmission channel bandwidth.

11/26/2003

> Question #4: Per ANSI C63.4 section 13.1.4.1 , when the device is hand-held
> or body worn devices, during radiated emission tests, the device shall be
> rotated through three orthogonal axes. Such procedures did not mention in
> the test report. Please address this issue.

Answer: The test description of the Radiated Emissions of the test reports has been amended to address the mentioned procedures. Please refer to Test Method Section (No 2 and 3) of the Radiated Emissions Test Description on page 37.

Question #5: Please provide power spectral density test data per section
> 15.247(f) when the Bluetooth device is in the acquisition mode.

Answer: Please refer to pages 30-32 of the test report for test results and plots.

>
> Question #6: FCC ID label is not readable. Please provide a clear copy of
> FCC ID label format.

Answer: Please refer to page 59 of the test report for the FCC ID label format.

>
> Question #7 : In the operational description, it mentioned "480GHz". Please

> make necessary correction.

Answer : refer to attachment.

>
> Question #8 : Based upon the description in the user manual, the PDA can be

> used with 802.11b or Bluetooth radio. Please confirm that the PDA contains

> in this filing will only be sold with Bluetooth radio.

Answer: refer to attachment

> SAR Portion

>
> Question #9: Based upon TCB exclusion list July 2002, the power low
> threshold for 2.4GHz with separation distance of less than 2.5 cm is 25mW.

> Based upon the measured output power, the highest output power is 1.6mW

> which is below the low threshold. SAR evaluation is not required to qualify

> for TCB review. Please inform that the submitted SAR test report shall be

> reviewed by TCB or not .

Answer : Not SAR review.

Thank you
Warmest Regards
Jenny Chen
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11/26/2003

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