From: lucy_tsai@ccsemc.com.tw
Sent: September05 2003 Friday 2:09 AM
To: Mike Kuo
Cc: Eric (E-mail); Jonson Lee (E-mail); Lucy (E-mail); Mike Kuo; Ting (E-mail)
Subject: RE: FW: Tapwave, Inc., FCC ID:REI001, NA03T3210

Hi Mike,

We've performed the 20dB bandwidth and please refer to the revised test report, page 20-21.

Best Regards,

Lucy

        Mike Kuo <MKUO@CCSEMC.com>
         2003/09/03 02:52 AM

                                "'lucy_tsai@ccsemc.com.tw'" <lucy_tsai@ccsemc.com.tw>,
Mike Kuo <MKUO@CCSEMC.com>
                                "Eric (E-mail)" <eric@cclab.com.tw>, "Jonson Lee
(E-mail)" <jonson@cclab.com.tw>, "Lucy (E-mail)" <lucy_tsai@cclab.com.tw>, "Ting
(E-mail)" <ting@cclab.com.tw>
                                RE: FW: Tapwave, Inc., FCC ID:REI001, NA03T3210

Hi Lucy :

Question #1: Below is the FCC Part 15.247 (a)(1) requirements:

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated
by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. The
system shall hop to channel frequencies that are selected at the system hopping rate from a
pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average
by each transmitter. The system receivers shall have input bandwidths that match the hopping channel
bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the
transmitted signals.

You have to provide 20dB bandwidth measurement to be used for frequency separation compliance. Please provide 20dB bandwidth measurement.

Best Regards

Mike Kuo
-----Original Message-----
From: lucy_tsai@ccsemc.com.tw [mailto:lucy_tsai@ccsemc.com.tw]
Sent: Monday, September 01, 2003 1:24 AM
To: Mike Kuo
Cc: Eric (E-mail); Jonson Lee (E-mail); Lucy (E-mail); Ting (E-mail)
Subject: FW: Tapwave, Inc., FCC ID:REI001, NA03T3210

Hi Mike,

Please refer to the below for the reply for Q1-3.
For Q1, we don't think it's necessary to measure 20dB bandwidth because it has been
taken off in the version of FCC Part 15, 2003. 3, 13. So please check if it's
still required.
For Q2, we totally did have verified four modes: PDA itself with three orthogonal
axes and PDA with cradle, and recorded the worst one: PDA with cradle. Please refer
to the page 6 of revised test report for test modes description.
For Q3, we have revised it and please refer to the revised test report for details.

Best Regards,

Lucy

        Mike Kuo <MKUO@CCSEMC.com>
         2003/08/29 02:36 AM

                                    "Eric (E-mail)" <eric@cclab.com.tw>, "Lucy (E-mail)"
<lucy_tsai@cclab.com.tw>, "Ting (E-mail)" <ting@cclab.com.tw>
                            "Jonson Lee (E-mail)" <jonson@cclab.com.tw>
                    FW: Tapwave, Inc., FCC ID:REI001, NA03T3210

-----Original Message-----
From: CERTADM
Sent: Thursday, August 28, 2003 10:34 AM
To: 'MKUO@CCSEMC.COM'
Subject: Tapwave, Inc., FCC ID:REI001, NA03T3210

Notice_content

Question #1: Please provide 20dB Bandwidth plots .

Question #2: The EUT is handheld device, per ANSI C63.4 section 13.1.4.1
requirement, handheld device shall be investigated with the device rotated
through three orthogonal axes during radiated emission tests. In the test
report, there is no indication that such procedure was performed. Please
confirm the test procedrues and/or provide additional test data.

Question #3: Please modify section 7.7 of test report. Basically, the
information presented in section 7.7 provide enough information address RF
exposure requirement. However, this device is handheld PDA which is
classified as portable device per section 2.1093 of FCC rules. For portable
device, if the output power is below the low threhold, SAR evaluation is not
required. MPE estimate can not be used to address portable RF exposure
compliance. Once you determine the SAR evaluation is not applicable for
portable device, you do not need to provide any additional information to
address RF exposure compliance.

Please delete MPE estimate from the test report.

Best Regards

Mike Kuo
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.