

Appendix A

Non-Conformities for US Radio Equipment Authorization

Non-Conformities FCC ID: SJC-LM2610 (CKC CS Ref # E08-000144-FCC-01)

The items listed below represent requests for information following review of this application for certification under United States (FCC) regulations. Further question may arise pending review of responses to these items.

| OK | ID | # | Non-Conformity or Comment | Submitted Response | Respondent / Date of Response |
|----|----|---|--|--|-------------------------------|
| x | C | 1 | <p>Throughout the report and application, the operating frequency range is listed as 2405 - 2475MHz. However page 4 of the user manual listed 2400 - 2483.5MHz. Please provide a revised user manual with correct frequency range matching the application and other related documents.</p> <p>9/24/08: Page 4 of user manual (040-0062 rev 2 LM2610 Users Guide) listed the listed Freq band: min 2.4 GHz, and Max: 2.4835, with 15 channels. However on the revised test report FC08-058A, page 31,34,36, 40 the test condition listed ch0 =2405MHz, ch8 2445MHz, Ch14=2475MHz. The captured fundamental frequency on page 31,34, 36, also indicated the center of fundamental frequency are at 2405MHz, 2445MHz, 2475MHz.</p> <p>IAW FCC documentation KDB634817 "Frequency Range Listings For Certification Grants", Part15 devices are to list the center frequency of the lowest channel to the center frequency of the highest channel.</p> <p>Please revise the user manual and application form to comply with FCC's filing requirement as stated in KDB634817.</p> | <p>The frequency band for the device is 2400 to 2483.5 MHz. The channels of operation as described in the updated attached operational description requirements specify the occupied channels.</p> <p>9/24/08: revised report and user - manual , did not satisfy non conformity.</p> <p>9/29/08: Discussed with TCB manager, frequency listing on user manual does not need to match frequency listed on the grant.</p> | |
| x | C | 2 | <p>The request for modular approval letter does not refer to 15.212. Please provide a revised request for modular approval letter with</p> | <p>Corrected in attached cover letter. 9/24/08: 15.212 is included in the</p> | |

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| | | | reference to "15.212" in the content of the letter. | revised cover letter. | |
| x | C | 3 | <p>The block diagram does not indicate the path of the Transmit signal, Please provide revised block diagram with RF path identified. In addition, please label frequency/frequencies at each block.</p> <p>Also, please identify the voltage regulation circuitry in the block diagram.</p> <p>9/24/08: Non Conformity is still active, provided explanations were not adequate.</p> | <p>The original block diagram adequately, in standard blocks, indicates the transmit path - directionality is indicated by the "pointy" end of the blocks. I have never diagramed the voltage regulation - it applies to the entire block. All frequencies relative to radio operation are labeled.</p> <p>9/24/08: . Reviewer could not identify "Pointy end of the block". where is the antenna and where is the voltage regulators? Is it on the chip ?</p> <p>9/29/08 : Discussion with TCB manager, Block diagram meets requirement.</p> | |
| x | C | 4 | The block diagram shows a xtal of 20MHz, however the schematic diagram and parts list identified X1 as 18.432MHz. Please verify which exhibit is in error and correct accordingly.. | <p>Per my previous response on this topic, the reference for the radio is 20MHz and it is contained in the monolithic device U1 and therefore will not appear on the schematic. Also per my previous response, the 18.432 MHz source is used for a 2nd processor that is completely independent of radio operation.</p> <p>9/24/08: Explained.</p> | |
| X | C | 5 | The block diagram shows a 32kHz xtal oscillator, please provide a schematic diagram with the 32kHz xtal identified. | Like the 20 MHz source this reference is contained in the monolithic device U1 and does not appear on a schematic. | |
| X | TL | 6 | The Y axis of the conducted spurious emission plots on Page 33, 35, 37 of the test report are labeled as dBuV/m which is misleading. | Addendum to Test Report Received. 9/24/08 | |

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| | | | Please provide a revised test report with appropriate units of measurement on the Y-axis. | | |
| X | TL | 7 | Page 29 of the test report shows the voltage variation was performed at the DC power. Please provide revised data sheet with voltage variation performed on the AC. | 082808:Ignore, voltage variation on DC is acceptable | |
| x | C | 8 | Please provide an updated users manual incorporating the statement required by 15.21 | Corrected in attached updated user's manual. 9/24/08 | |
| X | TL | 9 | Page 16 of the test report indicates the frequency range of measurement in receive mode is 30 - 1000 MHz. Please verify whether the receiver was tune to frequency of less than 108 MHz or in the case of superheterodyn receiver please identify the L.O. frequency of the receiver. Otherwise please provide a revised 15.109 data set tested to frequency range as specified in 15.33(b)(1) or 15.33(b)(3) | Addendum to Test Report Received. 9/24/08 | |
| X | TL | 10 | The test condition and presented plots from Page 47 - 49 of the test report do not indicate whether the PSD was measured IAW KDB 558074. Please clarify whether the PSD was performed IAW test procedure as prescribed by either Option 1 or Option 2 of KDB 55870, and please provide plots captured with appropriate sweep time if Option 1 or width trace averaging if option 2 were used. | Addendum to Test Report Received. 9/24/08: Revised test condition indicates testing to KDB55874, not no increment in measured PSD with slower sweep time was detected. | |
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The items indicated above must be submitted before processing can continue on the referenced application. Failure to provide the requested information within 60 days may result in application dismissal pursuant to Section 2.917(c) and forfeiture of the filing fee pursuant to Section 1.1106.

How to read the table:

OK column indicates closure by CKC CS.

ID column is for use with Agents to assist in identifying the probable source for closure.

A - Application issue

TL - Test lab issue

C - Client issue

R - Retesting may be necessary

column indicates unique or separate non-conformity items (note some items may be related).

Non-Conformity or Comment column indicates the evaluators specific question or comment.

Submitted response column indicates the response or a summary of the response provided.

Respondent / Date of Response column indicates the responding party or agent and the date of the response was either received or logged.

---CKC CS SECTION--- ---Information below this line is for CKC CS Evaluators only---

CKCCS Note: Additions to non-conformities may be listed in a separate table for convenience. When separated, the non-conformity reference serial number (NN) is incremented using in the following format reference # E08-000144-FCC-NN.