



Elliott Laboratories Inc.
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RE: Moteiv Corporation
FCC ID: TOQTMOTESKY

1) Portions of the AC powerline conducted emissions are labeled with 5 GHz and 802.11a data. Please explain.

Response: It has been corrected to display the correct information. Revised data uploaded.

2) The IC form is missing the model number on page 1. Please correct.

Response: That has been corrected. Revised form uploaded.

3) The IC 99% bandwidth appears to show 4.5 MHz while the IC form cites 16 MHz. Please review.

Response: That has been corrected. Revised form uploaded.

4) Regarding previous item 3, this affects the Certification. If the device is being tested as a DoC, then labeling should be shown on the device. If it is not tested as a DoC, then a Certification applies (not verification) since this is Class B and can be considered a PC peripheral. This would affect the Certification review as additional items/review are necessary and also the issuance of 2 grants. Please understand that correct understanding of how this device is approved is necessary to complete the review process.

Response: As stated in the Product Description (OEM User Manual) its states that the module will be integrated in products to provide varieties of parameters: Humidity, temperature, light sensing, and provide flexible interconnection with peripherals. The only time it will be connected to a computer is to program the module. This has been the same scenario like Cisco 4.9Ghz mini PCI card (FCC ID: LDKXSCLCR15) were we did not performed a DoC even though it can be used in a computer. We assumed the OEM integrator would perform the required test DoC or verification on the final product.

5) Your response to previous comment 5 using a 95.2 dB correction factor converts to EIRP, not conducted per the formula which would require the use of the TX antenna gain as well. ($EIRP (dBm) = \text{power received } dBuV/m - 95.3$). Generally the limits for power and PSD are conducted limits and therefore should be taken into consideration in the calculations.

Response: Being the case that no RF port was available, to performed conducted emissions, Power and PSD were measured radiated. Due to the fact, like you have stated, that the limits are based conducted, the antenna gain should have been subtract or added from/to the measure field level to get the actual power before it goes into the antenna (conducted value). In our case we are doing a worse case calculation, which shows that the unit still passed the conducted limits without taking into account the antenna gain. The antenna gain per applicant is 0dBi.

6) In your response to previous comment 7, it is uncertain which mode was utilized for what tests. Please clarify as this can affect the results.

Response: The radio was set to transmit at 95% duty cycle for all tests.



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7) FYI....In the future, please watch the use of 3 * RBW for VBW on the 99% bandwidth tests for IC.

Response: Understood.

Regards,

A handwritten signature in black ink that reads "Juan Martinez".

Juan Martinez
Senior EMC Engineer
JM/dmg