



December 1, 2005

American TCB Reviewers

RE: Microwave Data Systems FCC ID: E5MDS-EL806

1) Question:

A Permissive Change assumes a device is identical to the previously certified device with few exceptions. It is uncertain if this application can support a Permissive change. In comparing the original internal photographs to the photographs provided in this application, much of the transmitter appears to be depopulated. Please review, evaluate, and provide further information as necessary according to 2.1043. Further detailed information is necessary to consider as a Permissive Change.

Answer:

The circuits that are not populated are simply the onboard switching power supply regulator. The board gets its DC power from the POE "power over Ethernet" off the mother board it plugs into. The RF amplifier and all associated RF circuitry (bottom side) have not changed. The view you show is of the digital portion of the circuit board with no shield, this is not the RF circuitry removed.

2) Question:

Given the information in 1), please provide complete internal photographs of the device.

Answer:

MDS removed the digital shield and tested the configuration for emissions at Elliott. The pictures you sent represent the application with the shield off

3) Question:

Photographs do not appear to support the use of the shield as originally approved. Please review.

Answer:

Elliott labs tested the EL806 module with this shield removed after the grant was issued to ensure MDS still met the FCC part 15 limits. MDS removed the shield to allow mounting inside this enclosure. Doing this MDS spent \$ and tested to prove their due diligence.

4.) Please explain why the 731 form and test report cites 902.6 MHz as a lower frequency, while the device is previously approved for 902.2 MHz. Is the device non-compliant for the lowest channel? If so, how is compliance to 15.15 assured for various configurations?

Answer: Revised 731 form and Report

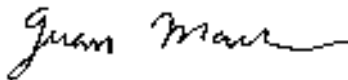
5) Question:

Page 7 and 21 of the test report cites the device has been approved with up to a 10 dBi Yagi and Omni antennas. From investigation of the previous applications, it appears this device is only approved for use with a 0 dBi dipole, 7.1 dBi Omni, and 8.5 dBi Yagi. Please explain/review.

Answer:

This looks like an oversight, the device was approved using the 7.1 dBi Omni, and 8.5 dBi Yagi. Report has been correct.

Regards,



Juan Martinez