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To: tjohnson@ATCB.com

Subject: Response to Inquiry to FCC (Tracking Number 834675) (TCB)

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**Inquiry:**

Recently the FCC approved a test procedure for testing of power under Part 27.50(i) under KDB 770319 that appears to take the RMS value of a signal by looking at the peak value over time using a large RBW and then determining an RMS value.

We have another laboratory who would like to ask if the following may be applied for use under 27.50(i) as well.

Here are the suggested settings specifically for Agilent E4407B-COM ESA-E Communication Test Analyzer, 9 kHz to 26.5 GHz:

The channel power measurements over the channel bandwidth will be performed under the following settings: Resolution bandwidth set about 1% of the occupied bandwidth (for example within the range 0.5-2% of the occupied bandwidth);

Video bandwidth is 10 times wider than resolution bandwidth;

Detector type: SAMPLE in conjunction with video averaging (for example 100 traces) or POWER AVERAGE(RMS)- for spectrum analyzers which have this option;

Channel bandwidth set wider than 6 dB bandwidth of the channel.

The measured power is integrated over the channel bandwidth and represents the channel power unbiased by the peak measurements..

The measurements may be performed with a similar spectrum analyzers from Agilent like HP 856X EC; E440X; E740X or other spectrum analyzers or receivers supporting POWER OVER CHANNEL measurements.

They would like to know if this is acceptable.

Tim

**Response:**

The test procedure as described is acceptable.

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