Scot Rogers

From: oetech@fcc.gov
Sent: April 20, 2018 1:52 PM
To: Scot Rogers
Subject: OET KnowledgeBase Inquiry Confirmation, Tracking Number 606499

Categories: Scot.Rogers@rogerslabs.com

Your inquiry has been received by the FCC and it's been assigned tracking number is **606499**.

Inquiry Details on 04/18/2018:

Inquiry:

My name is Scot Rogers of Rogers Labs, Inc. We operate a NVLAP Accredited test facility (FCC registered site (US5305) and provide testing services. I have been approached to provide testing on Part 74 UHF Digital Television (DTV) transmitter equipment and process applications for Authorization of this equipment. The UHF Transmitter equipment is capable of transmissions across a large frequency band covering the UHF DTV band of 470-806 MHZ (except for the restricted band 608-614 MHz). The modulator and amplifier design provide transmission capability across the band and the end product is sold as a system. The Emission Mask Filter system is comprised of Harmonic Filter, Bandpass Filter, and Coupler or Couplers. When a system is ordered the equipment is provided for operation on specific channel and frequency providing compliant operation on the assigned 6 MHz channel.

These systems are authorized for operation across the frequency band of 470-608 MHz and 614?806 MHz (numerical designation of channels 14 through 69 except channel 37 as provided in 47CFR 76.603, operating in the UHF band).

The current ANSI C63.25-2015 standard for testing transmitters operating over a span greater than 10 MHz requires testing at three frequencies (one near top, one near middle, and one near bottom). It has been FCC policy and practice of authorizing these Part 74 Broadcast TV Station transmitters based on test results from a single channel frequency.

I am requesting a wavier be provided to allow authorization of the referenced equipment for operation across the frequency band (Digital Television Channels 14 through 69) 470-608 MHZ and 614-806 MHz based on test result performed on a single transmission system. The proposed transmitter system (comprised of the transmitter and emission mask filter system) would be tested on a single channel and the application and authorization would span across the allowed band based on compliant test result on a single channel.

The equipment under consideration for this request include the Rohde & Schwarz models TLU9 and TMU9C (FCC Identifiers yet to be determined)

FCC response on 04/20/2018

This is allowed. ANSI C63.26 is not required for high power broadcast transmitters. KDB 971168 section 10 states that "In general, FCC has required EMC/radio parameters to be tested

at minimum on a single frequency in each band (tuning range) for each rule part applied under..." See also KDB 634817

---Reply from Customer on 04/20/2018---

Thank you for the information and help.

Does this also apply to a “family” of models consisting of theexciter, and power amplifier(s). the power amplifiers and associatedfilters and couplers may be different but covered in a “family” of transmittermodel.

Thank you again in advance for your attention and help.

Attachment Details:
With following attachments
- 18431 bytes, Part 74 transmitter Waiver request, on 04/18/2018

Do not reply to this email using the reply button. Please submit your reply to this correspondence at https://www.fcc.gov/labhelp.