

Philip Thompson

From: Amy Kaufman
Sent: 02 December 2019 23:22
To: Philip Thompson; Josh Batty; Richard White
Subject: ELEM0096

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Phil,

Our apologies for the delay in responding. Last week was our Thanksgiving holiday and several key people were unavailable.

Broad band scans do not exist for this frequency range you are discussing. While we investigate the spectrum we do not take broadband scans above 40 GHz per our standard process. No emissions were found during the investigation. The test data provided in the screen captures coincide with the harmonics of the carrier on the lowest, mid, and highest frequency range of the normal swept carrier per the operating software provided by the client (58.3 GHz low to 63.6 GHz high). Note the FMCW sweep was stopped during testing per FCC Part 15.31(m) as the FCC has re-iterated this year in the TCB workshop. Due to the stopped sweep we felt the span of the included analyzer screen captures was appropriate and sufficient for a CW signal tested in single channel mode.

On a side note in regards to the device. The device was configured for very low fundamental output power. The fundamental radiated output power measurements were essentially below our measurements sensitivity at -14 dBm peak EIRP. The original request for testing we received from EUK indicated the device would be transmitting at an expected EIRP of 10 dBm. However, when the fundamental was barely visibly with our measurement setup when testing at a 0 cm test distance we inquired of the client. This is the feedback we received from Andrew Foo:

Please find attached the test result for our EU version (spec. at +10 dBm) that tested at -19 dBm EIRP at Element, UK. Due to lower limits with 15.255, the EUT is a revised design that emits approximately 15 dB less than the EU version.

Note also the client had to re-configure their unit for us with a much higher output power so that the 6 dB Occupied Bandwidth could be measured.

Please let me know if you have questions or need further clarification.

Thanks!

Amy



Amy Kaufman

Technical Writer

Element Materials Technology
3801 E. Plano Pkwy, Suite 150
Plano, TX 75074, United States
O +1 469 304 5255
amy.kaufman@element.com
www.element.com

