

Annex E – FCC 15.209 Band Edges

Note 1: Below measurements are in units of dBuV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2020. The following formula was used in making such conversions:

For measurements above 1GHz:

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77$$

where E is field strength and d is measurement distance at which the field strength limit is specified in the applicable requirements.

For $d = 3\text{m}$:

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$$

Straight conversion factor between $E[\text{dB}\mu\text{V}]$ and $\text{EIRP}[\text{dBm}]$ is 107, thus the offset for dBuV/m at 3meters is

$$\text{Offset}[\text{dB}] = 95.2 - 107 + \text{antenna gain} + \text{cable loss}.$$

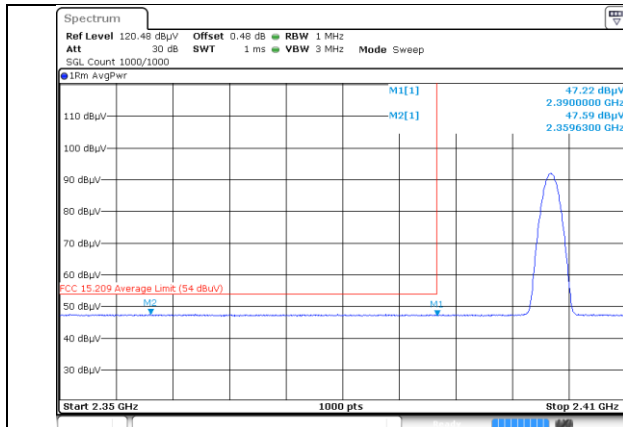
Antenna Gain: 1.5 dBi (note: per standard, worst case of 2dBi is used if antenna gain is less than 2dBi)

Naming Convention

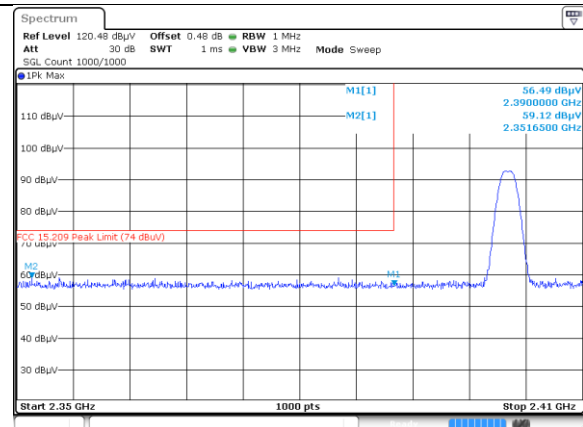
Radio (BLE)_Rate (1M, 2M)_ Frequency (MHz)_Measurement (-20_dBc)_Type (Frequency Range, Lower Band Edge Band Edge, Upper Band Edge Band Edge)

Naming Convention

Radio (BLE)_Rate (1M, 2M)_ Frequency (MHz)_Measurement (15.209)_Measurement (LowerBE, Upper BE)_Type (Peak, Average)

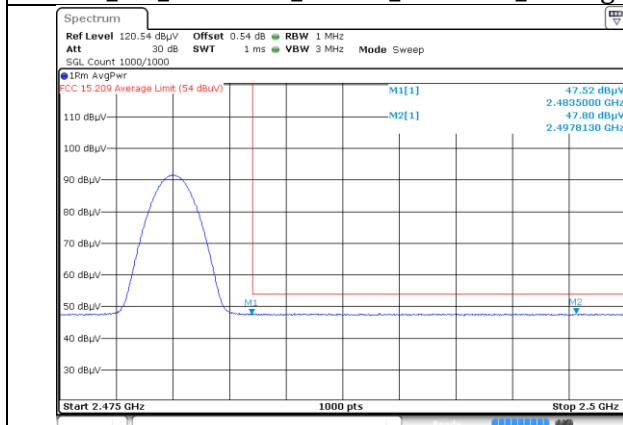


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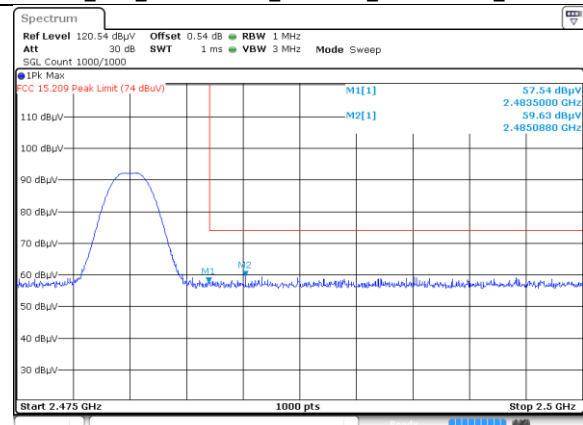
Project Number: R2606123, Tester Name: Alexandrea Duran
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BLE_1M_2402MHz_15.209_LowerBE_Average



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BLE_1M_2402MHz_15.209_LowerBE_Peak



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BLE_1M_2480MHz_15.209_UpperBE_Average

BLE_1M_2480MHz_15.209_UpperBE_Peak