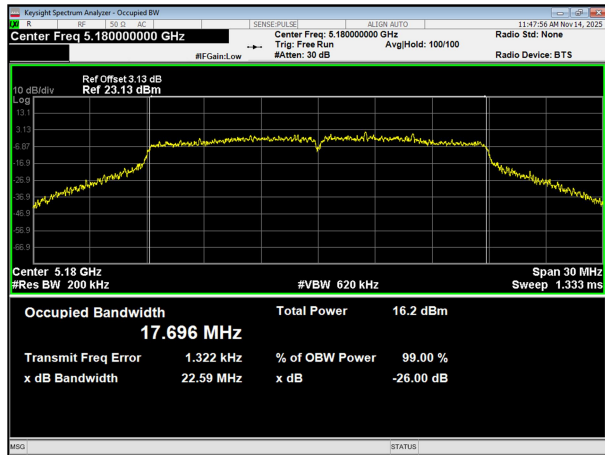
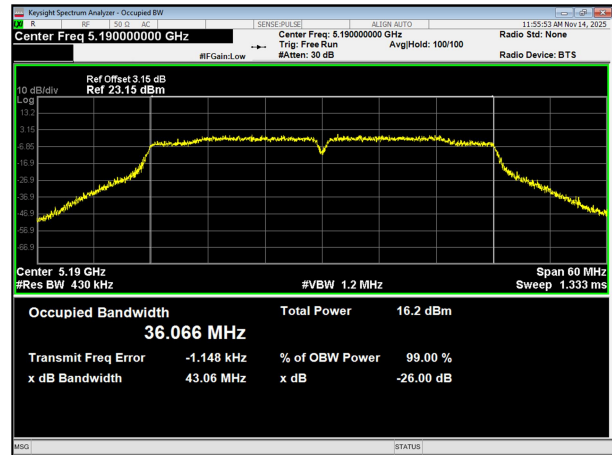


Test plot

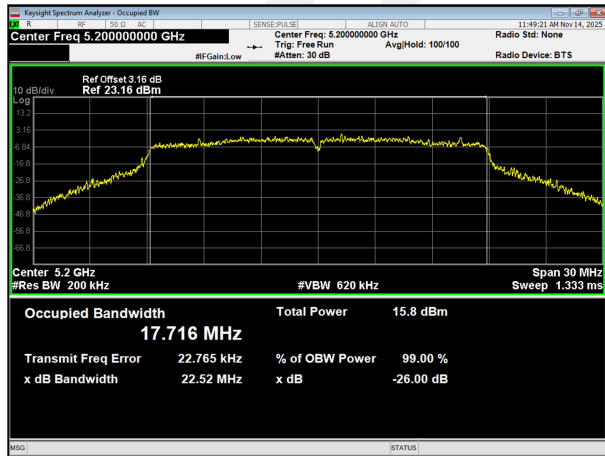
(802.11 n20) plot on channel 36



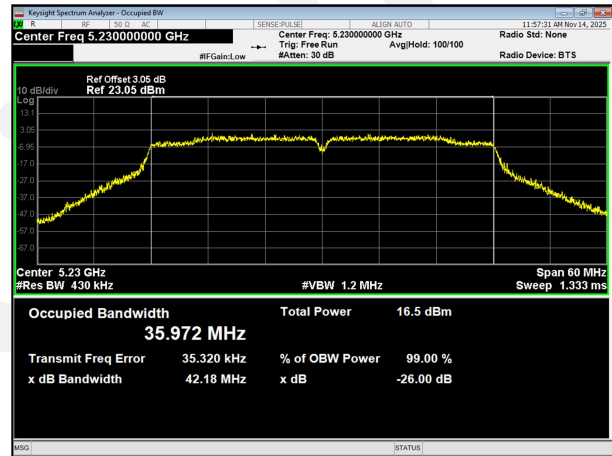
(802.11 n40) plot on channel 38



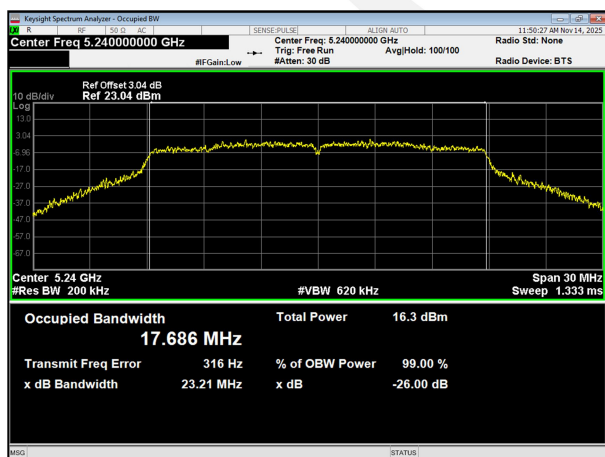
(802.11 n20) plot on channel 40



(802.11 n40) plot on channel 46

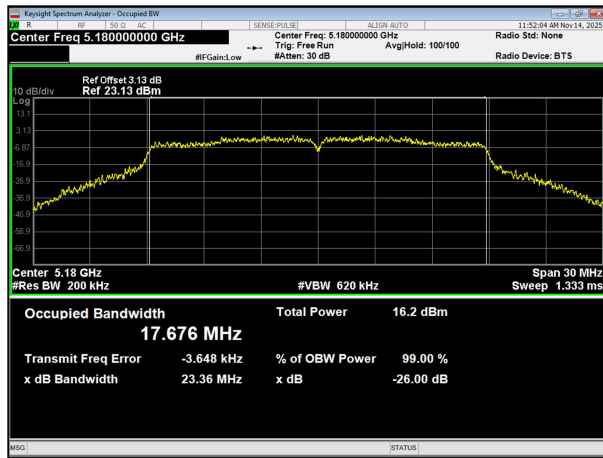


(802.11 n20) plot on channel 48

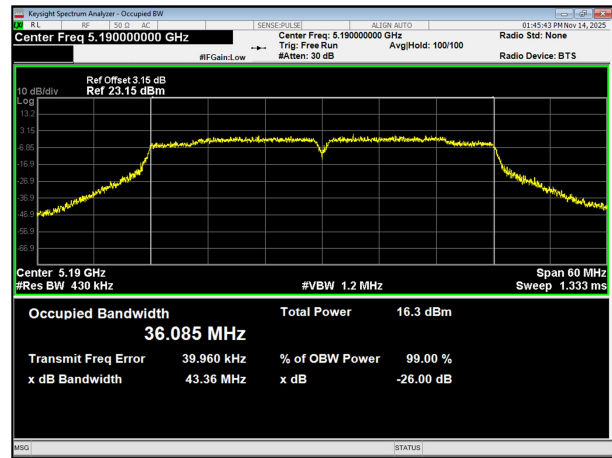


Test plot

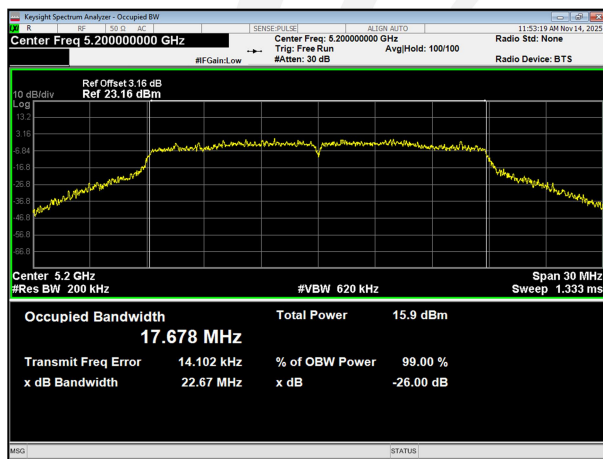
(802.11ac20) plot on channel 36



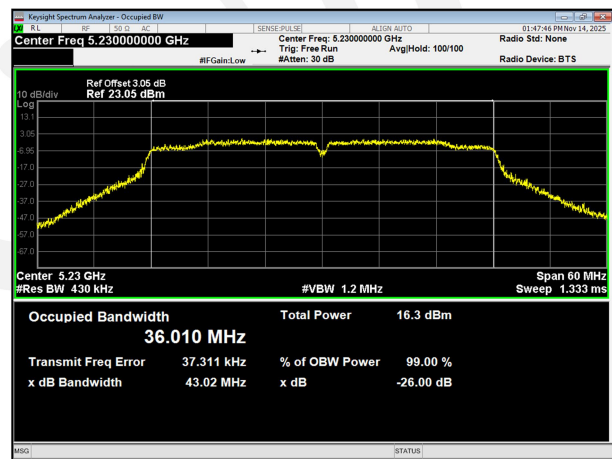
(802.11 ac40) plot on channel 42



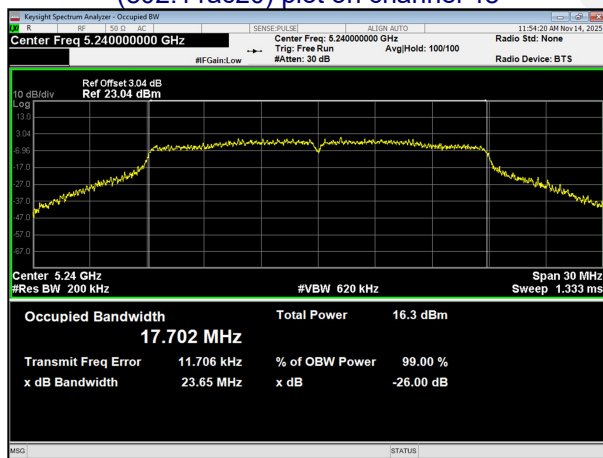
(802.11ac20) plot on channel 40



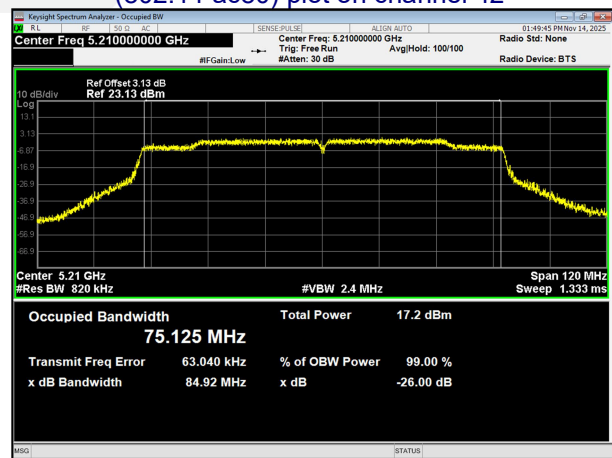
(802.11 ac40) plot on channel 42



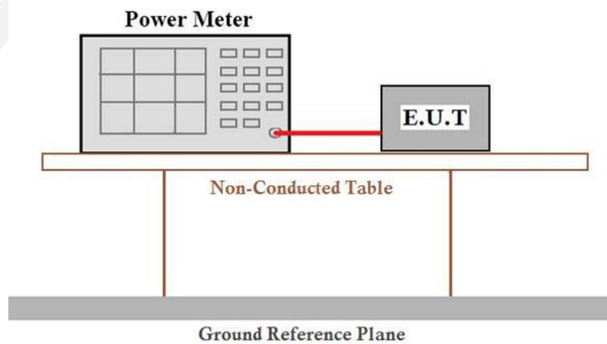
(802.11ac20) plot on channel 48



(802.11 ac80) plot on channel 42



4.4 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test setup:	 The diagram illustrates the test setup. A Power Meter is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

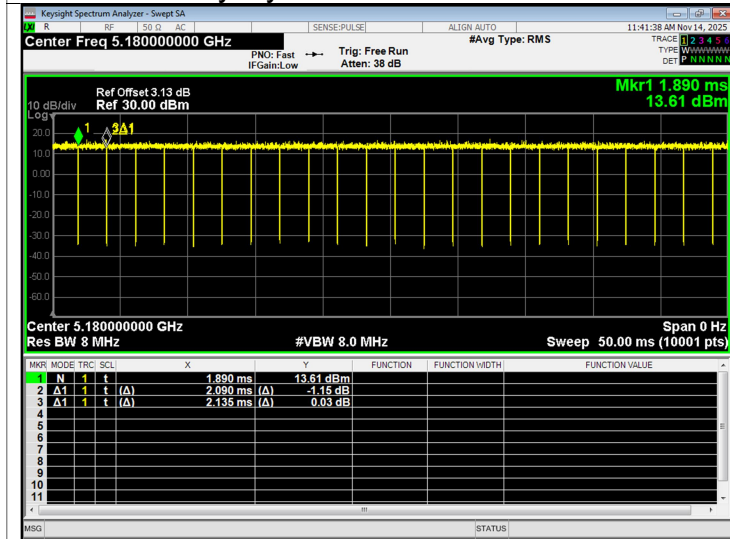
Measurement Data**Band 1 (5150-5250 MHz) SISO:**

Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	Limit (dBm)	Result
ANT1	802.11a	5180.00	10.414	0	10.414	24	Pass
ANT1	802.11a	5200.00	10.144	0	10.144	24	Pass
ANT1	802.11a	5240.00	10.670	0	10.670	24	Pass
ANT1	802.11n(HT20)	5180.00	10.355	0	10.355	24	Pass
ANT1	802.11n(HT20)	5200.00	10.360	0	10.360	24	Pass
ANT1	802.11n(HT20)	5240.00	10.612	0	10.612	24	Pass
ANT1	802.11ac(VHT20)	5180.00	10.510	0	10.510	24	Pass
ANT1	802.11ac(VHT20)	5200.00	10.650	0	10.650	24	Pass
ANT1	802.11ac(VHT20)	5240.00	10.456	0	10.456	24	Pass
ANT1	802.11n(HT40)	5190.00	10.152	0	10.152	24	Pass
ANT1	802.11n(HT40)	5230.00	10.631	0	10.631	24	Pass
ANT1	802.11ac(VHT40)	5190.00	10.675	0	10.675	24	Pass
ANT1	802.11ac(VHT40)	5230.00	10.753	0	10.753	24	Pass
ANT1	802.11ac(VHT80)	5210.00	10.414	0	10.414	24	Pass

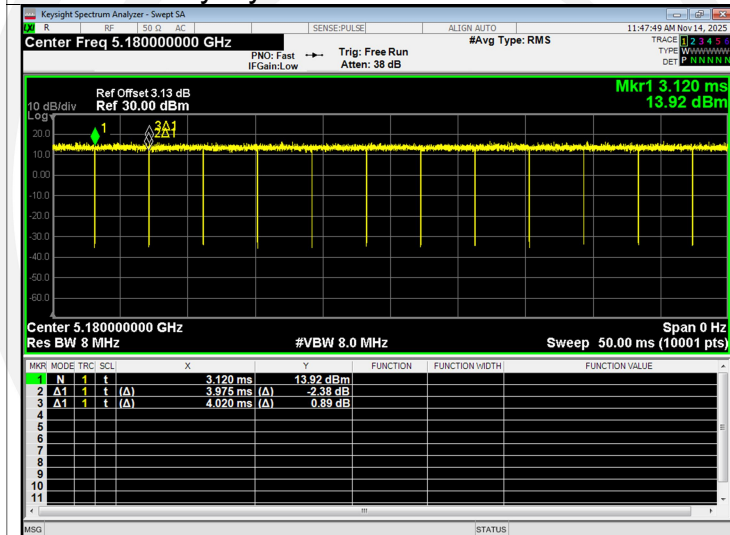
Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
ANT1	802.11a	5180.00	97.66	0.1
ANT1	802.11n(HT20)	5180.00	98.76	0
ANT1	802.11n(HT40)	5190.00	99	0
ANT1	802.11ac(VHT20)	5180.00	99	0
ANT1	802.11ac(VHT40)	5190.00	98.75	0
ANT1	802.11ac(VHT80)	5210.00	98.76	0

Test Graphs

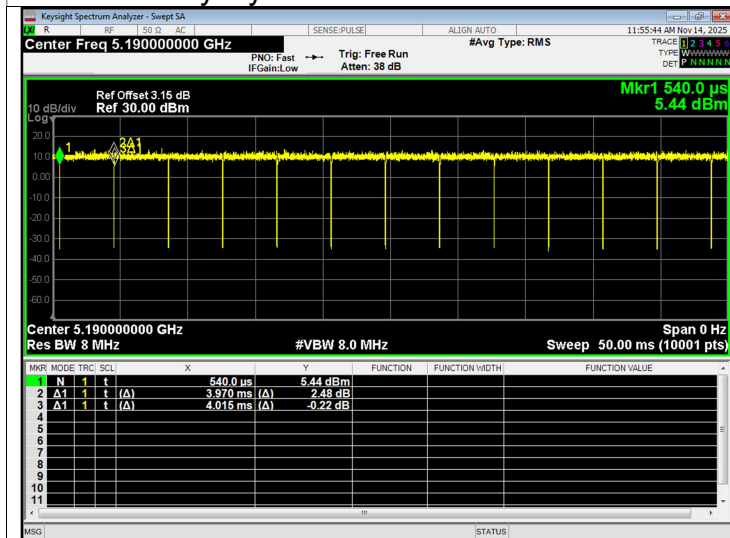
Duty Cycle NVNT a 5180MHz



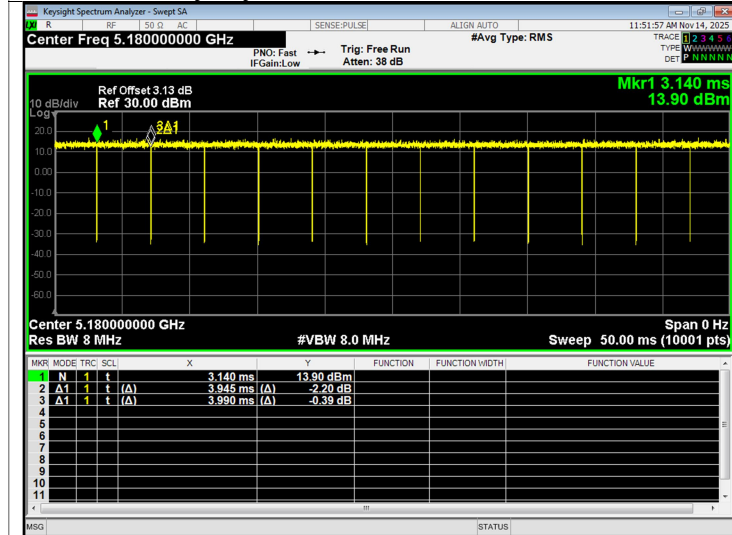
Duty Cycle NVNT n20 5180MHz



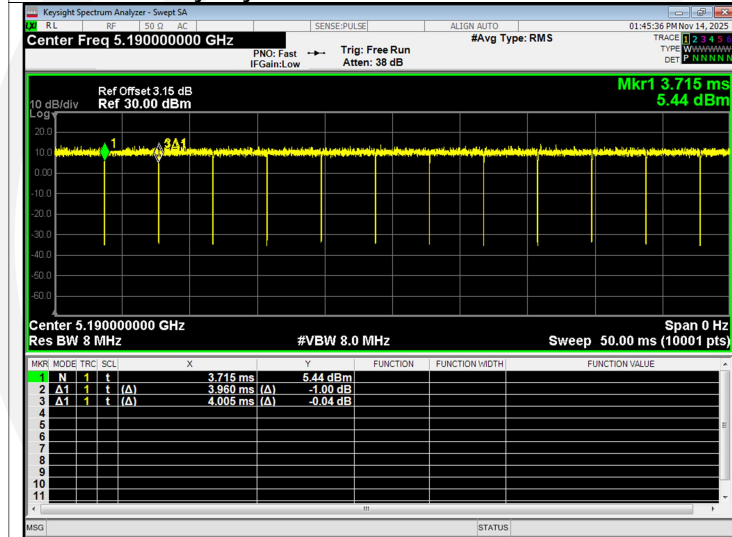
Duty Cycle NVNT n40 5190MHz



Duty Cycle NVNT ac20 5180MHz



Duty Cycle NVNT ac40 5190MHz



Duty Cycle NVNT ac80 5210MHz

