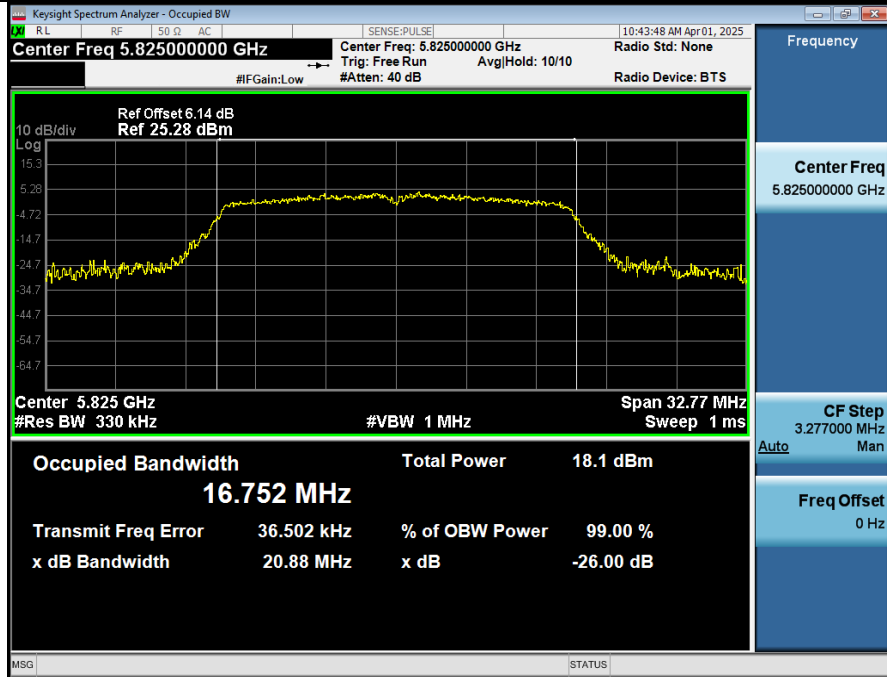
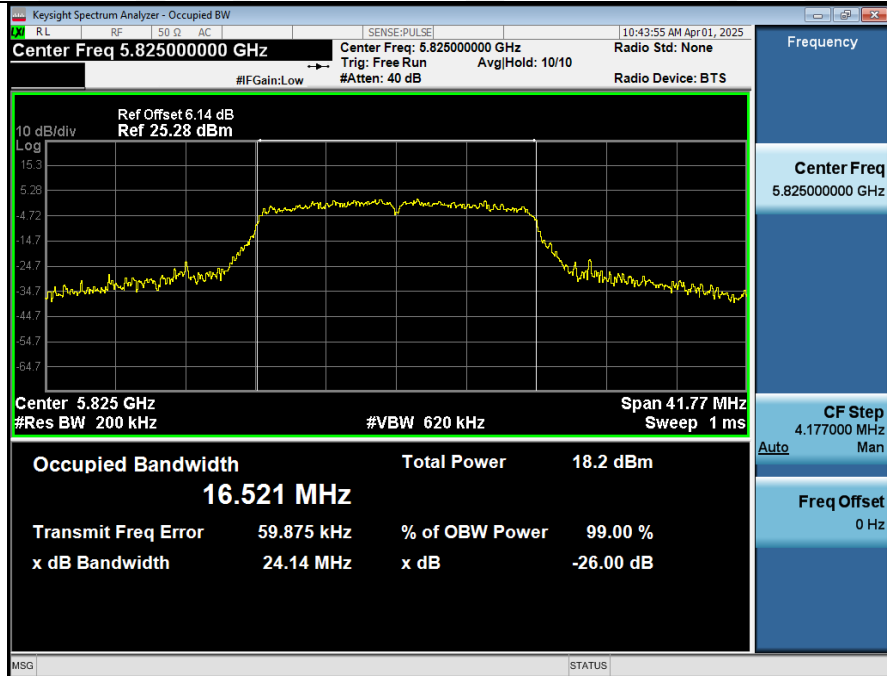


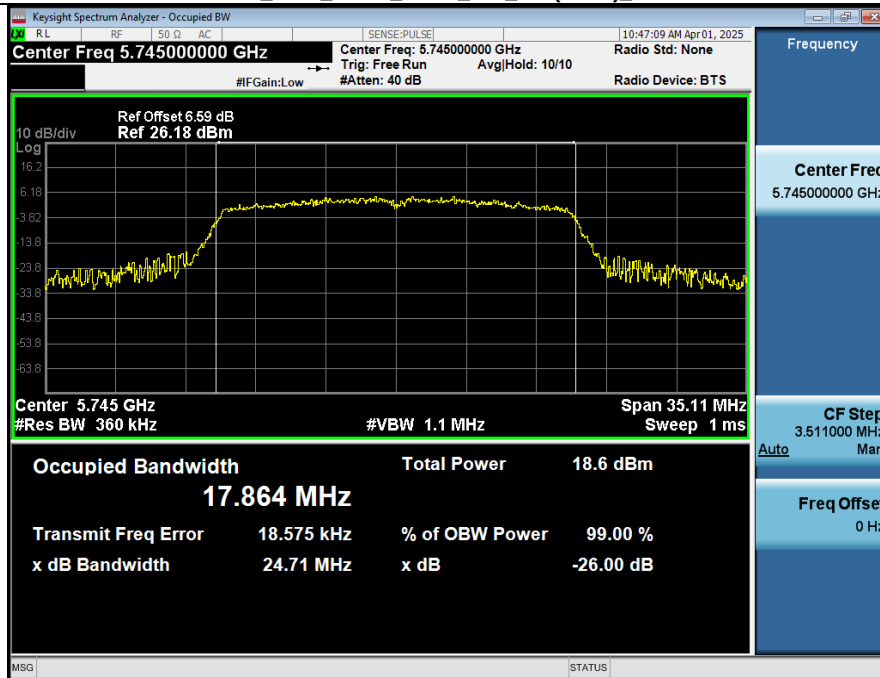
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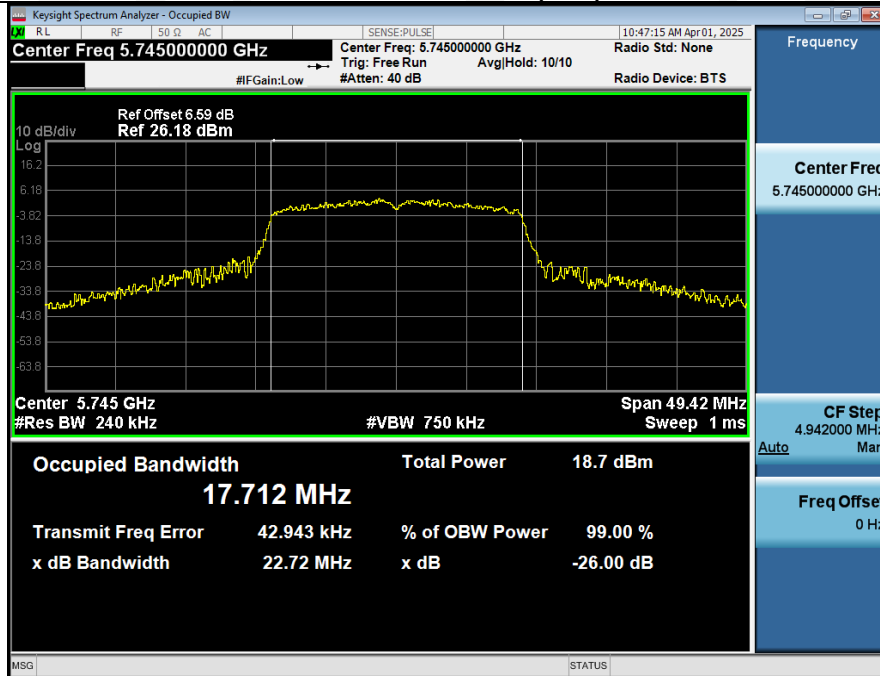
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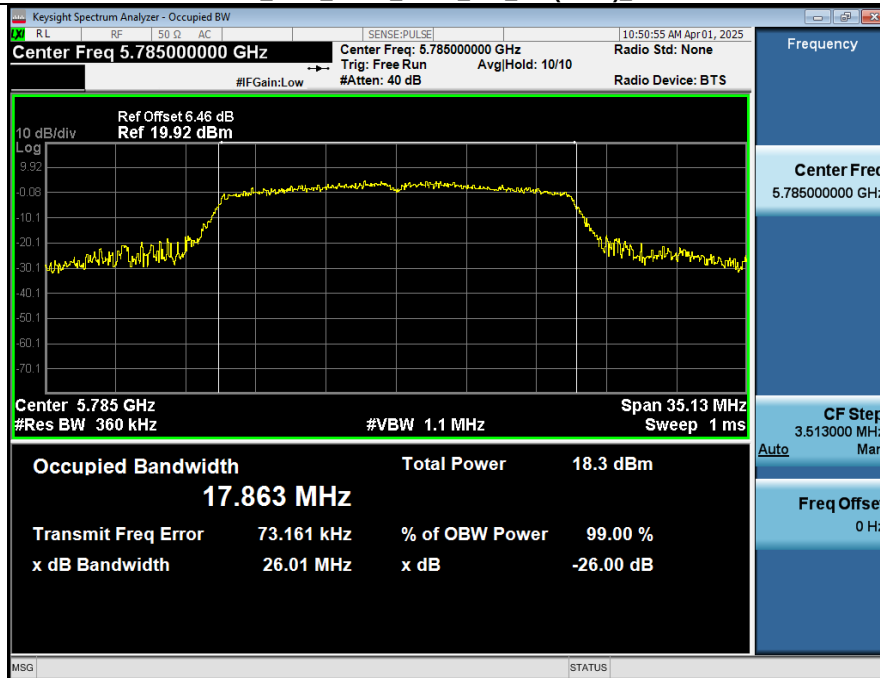
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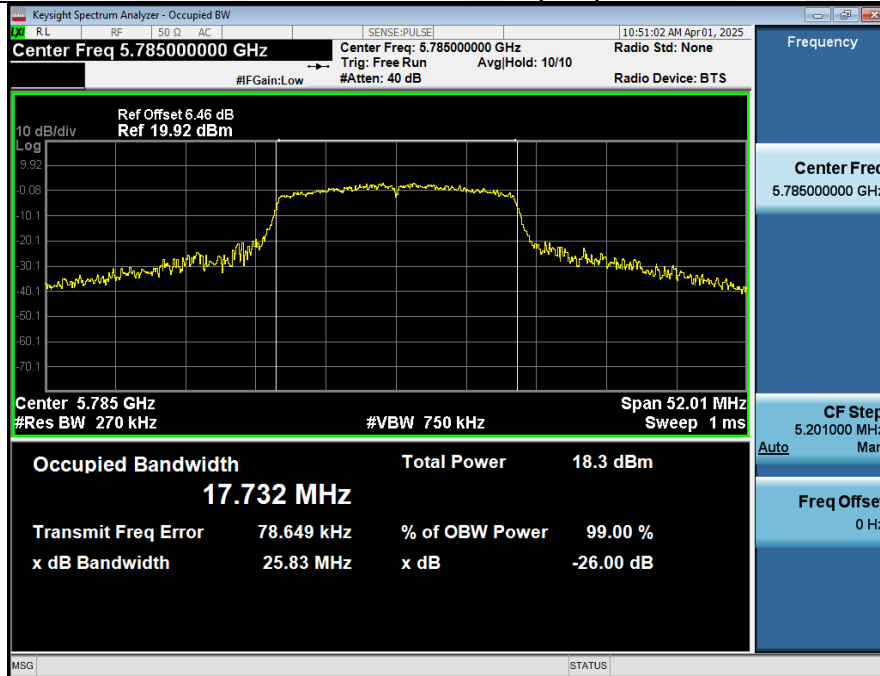
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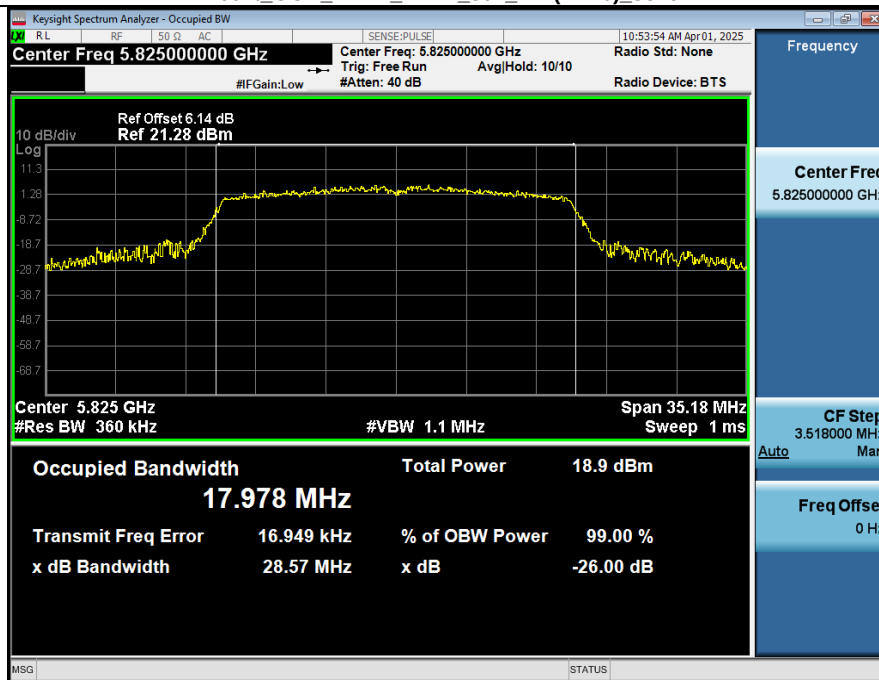
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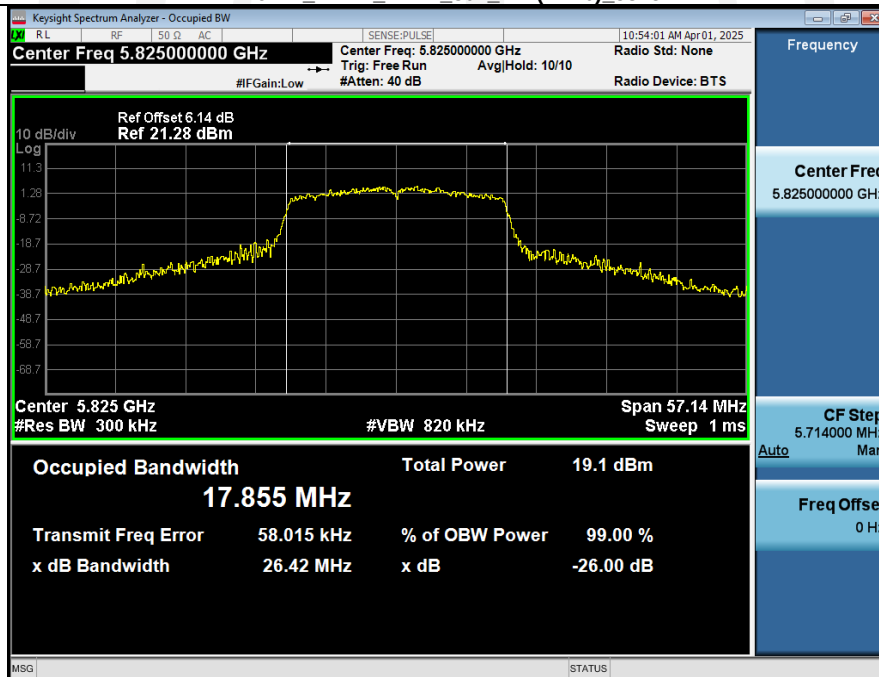
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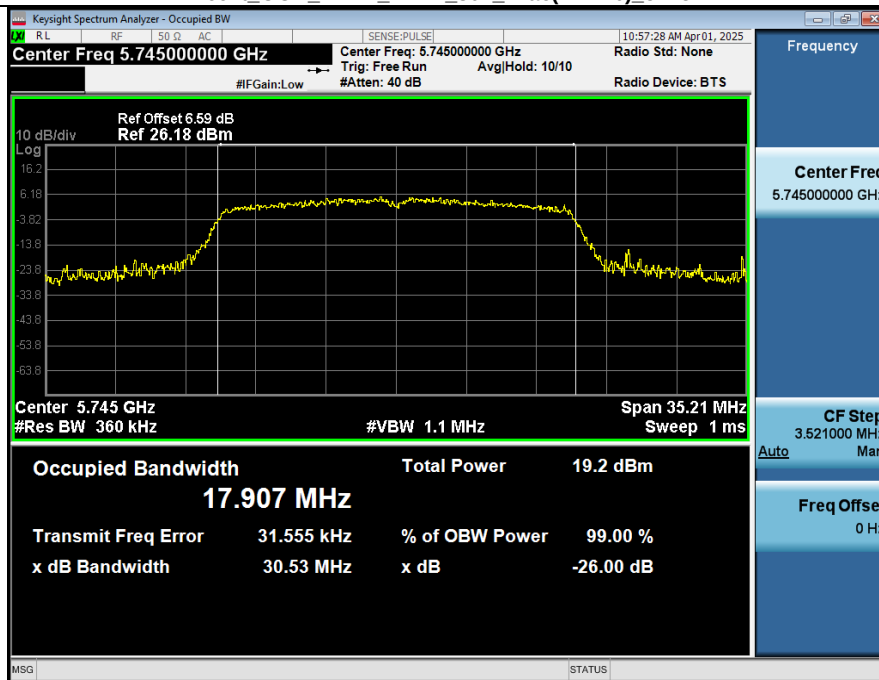
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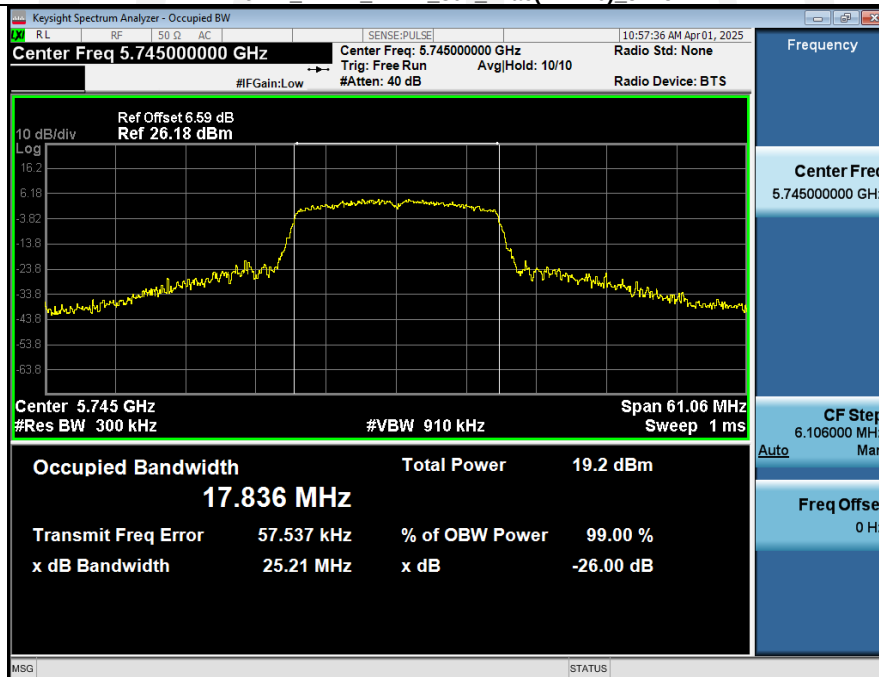
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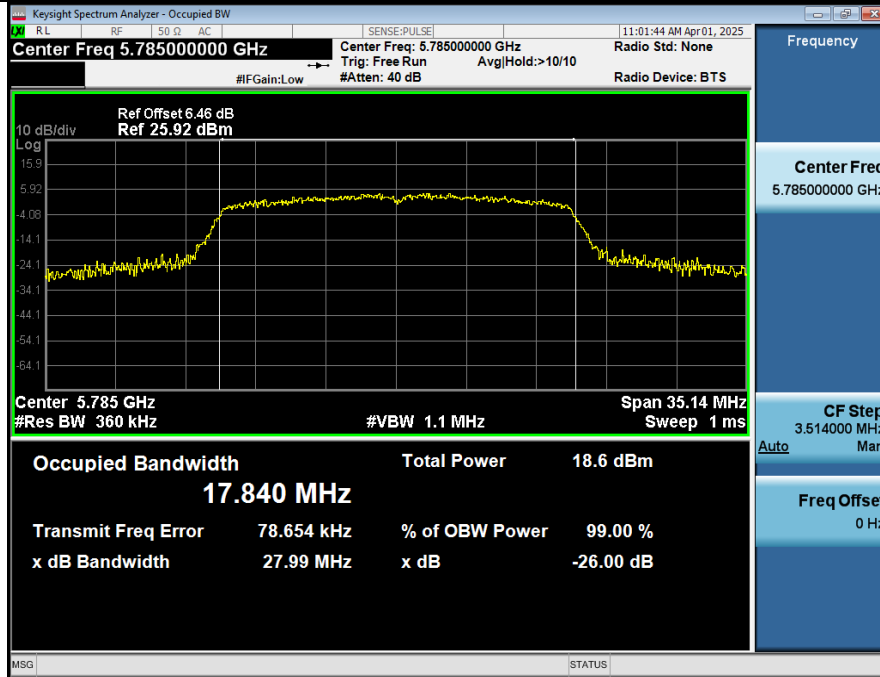
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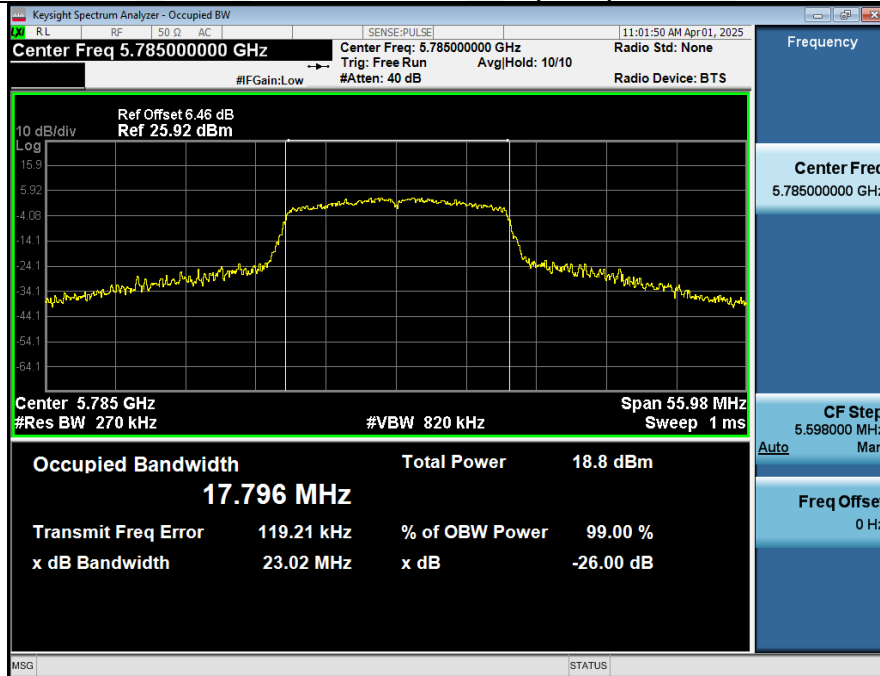
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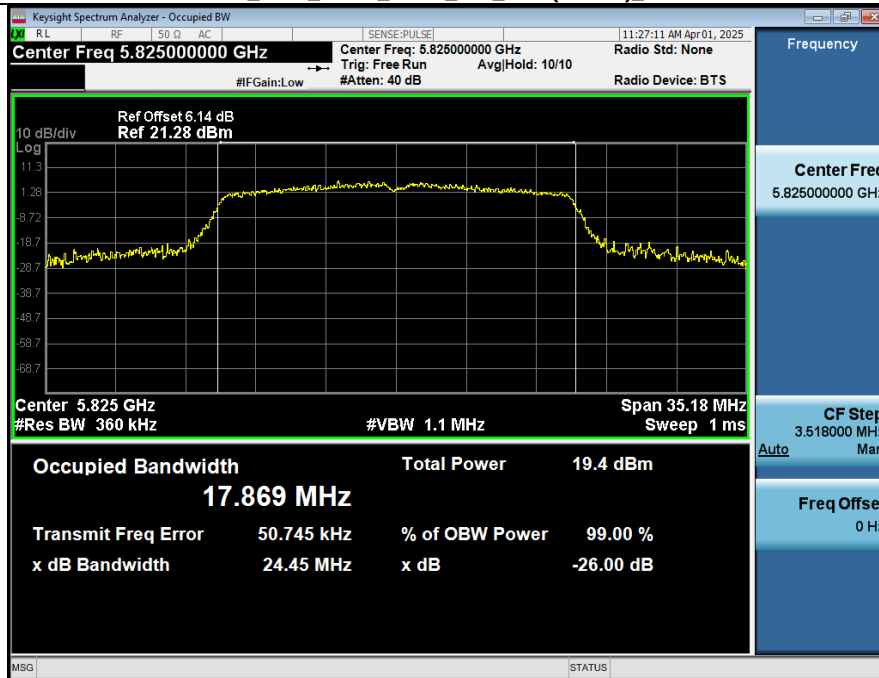
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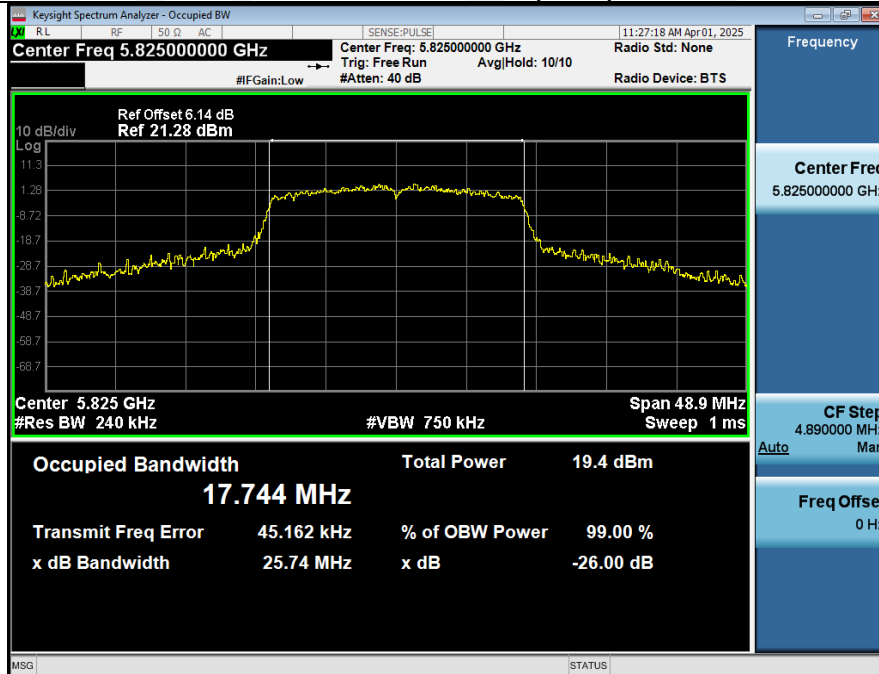
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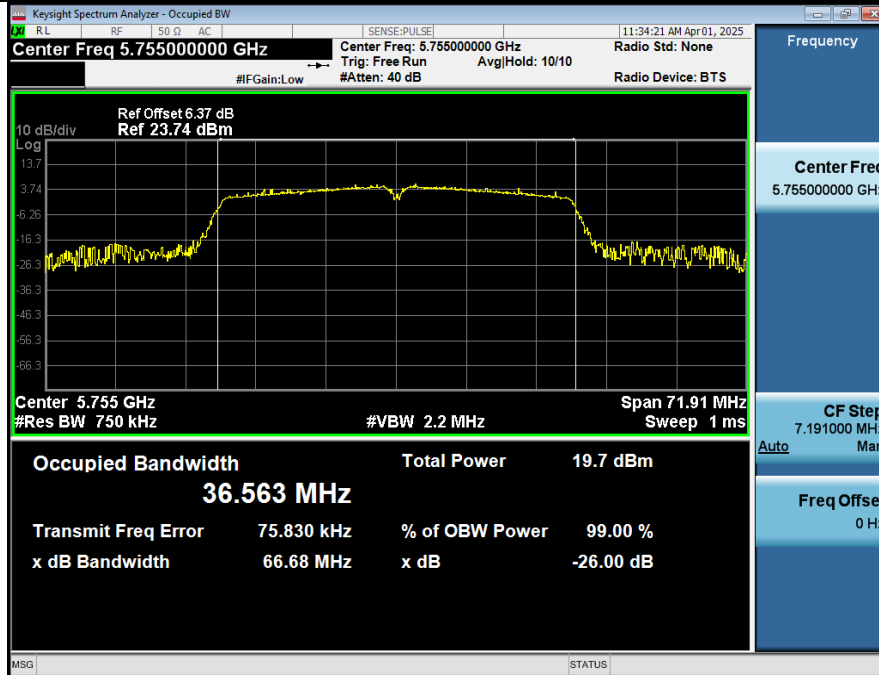
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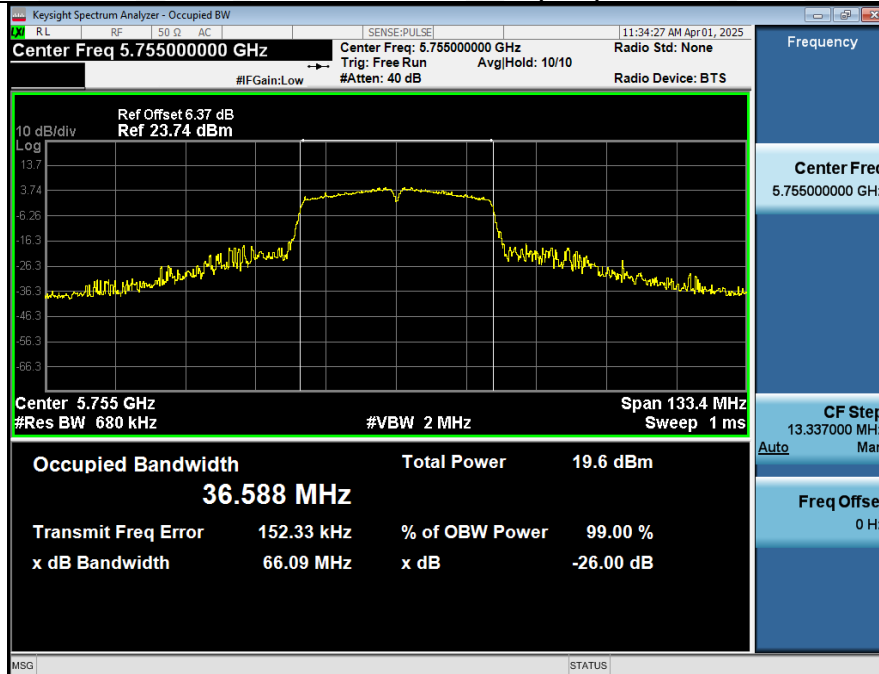
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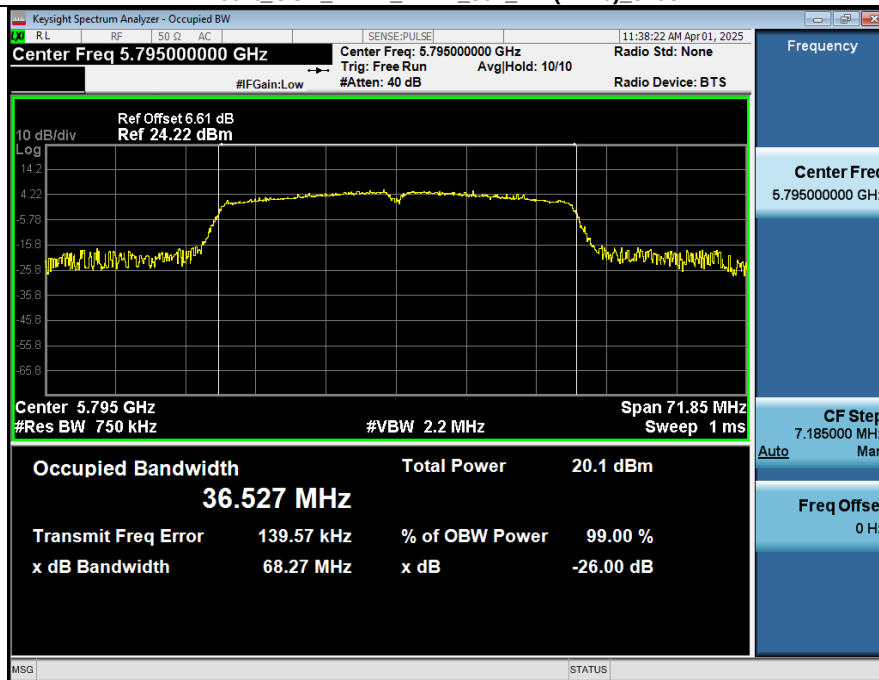
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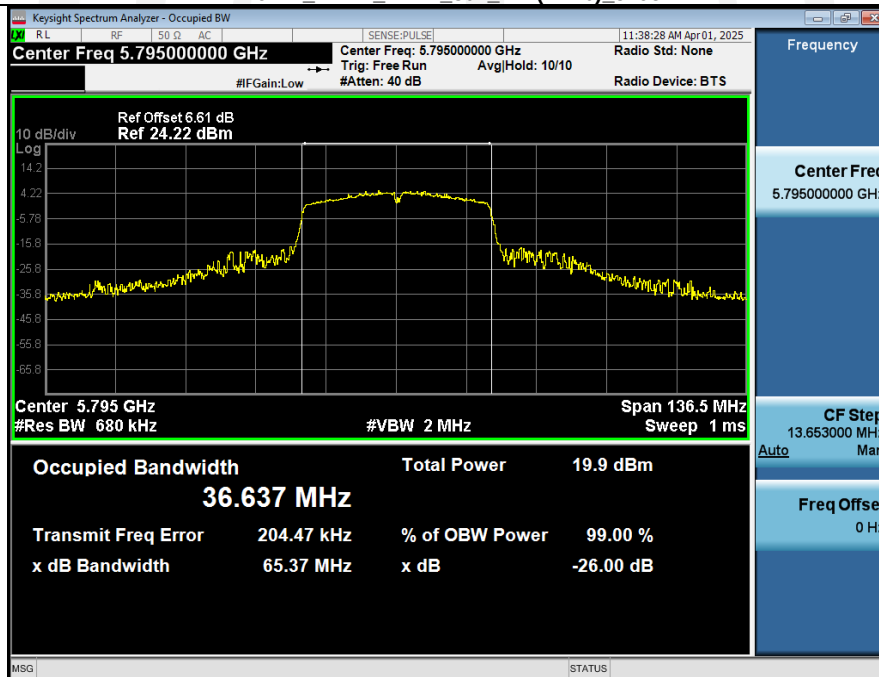
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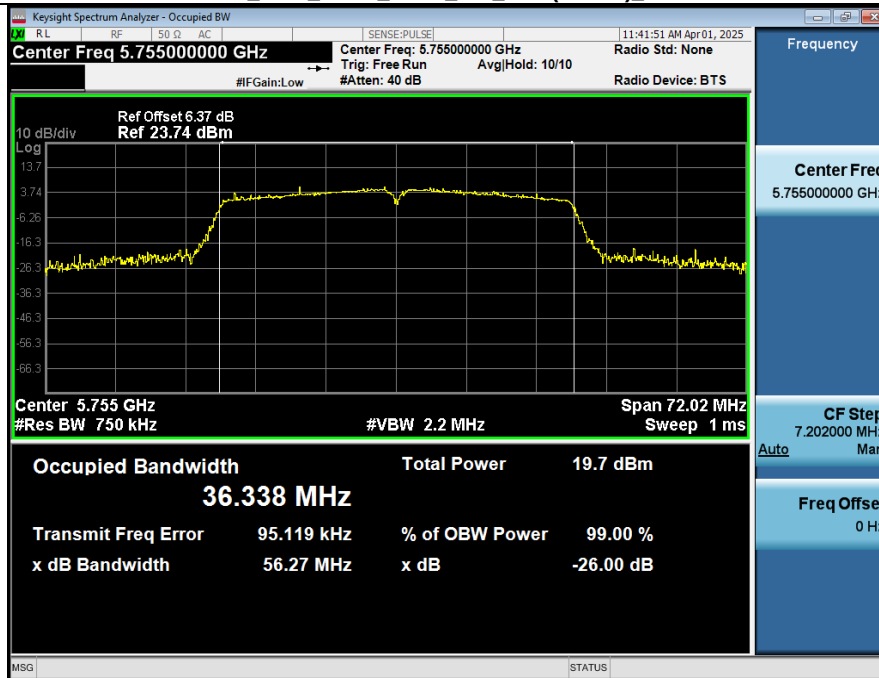
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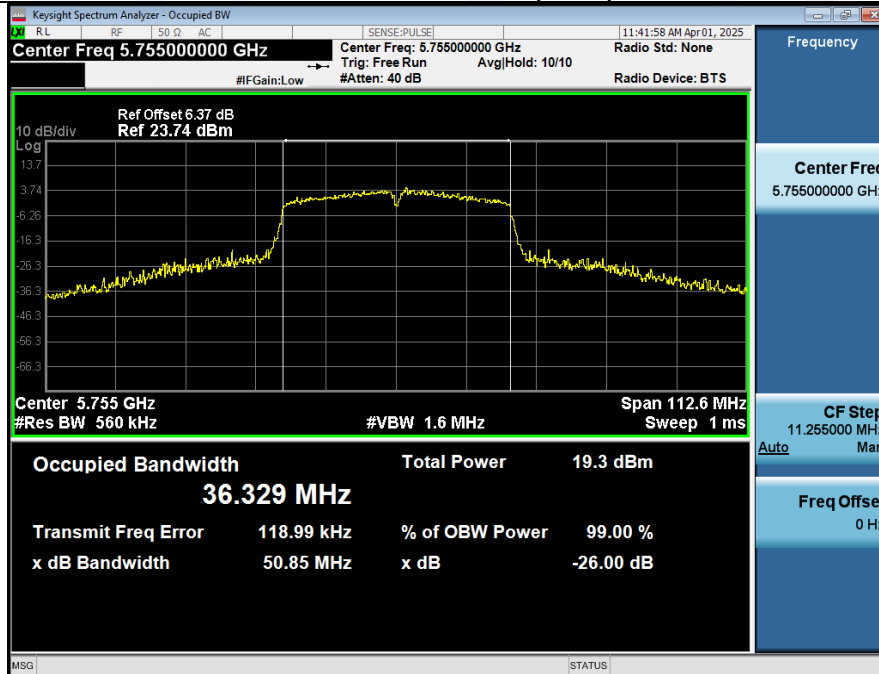
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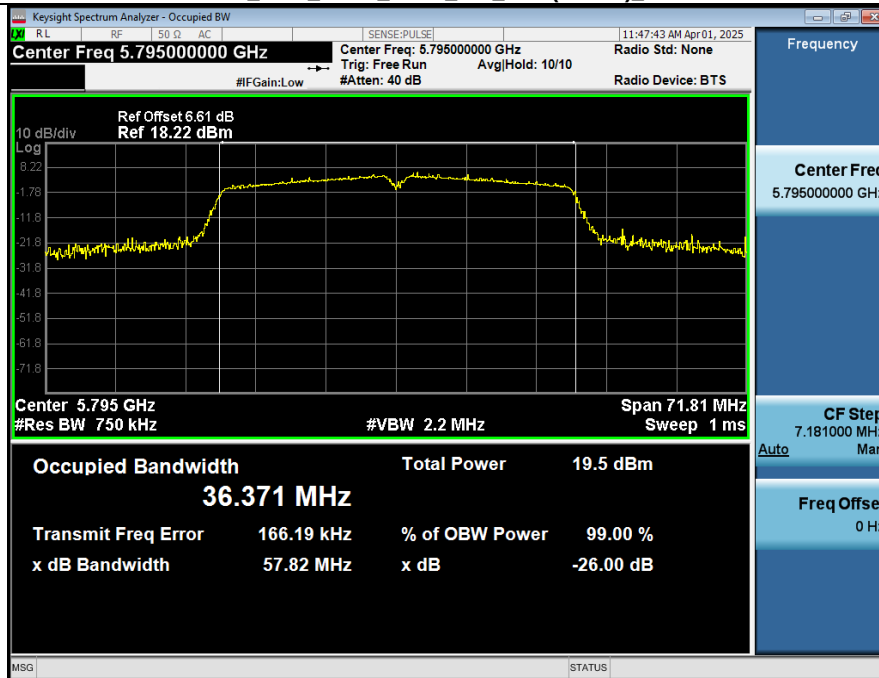
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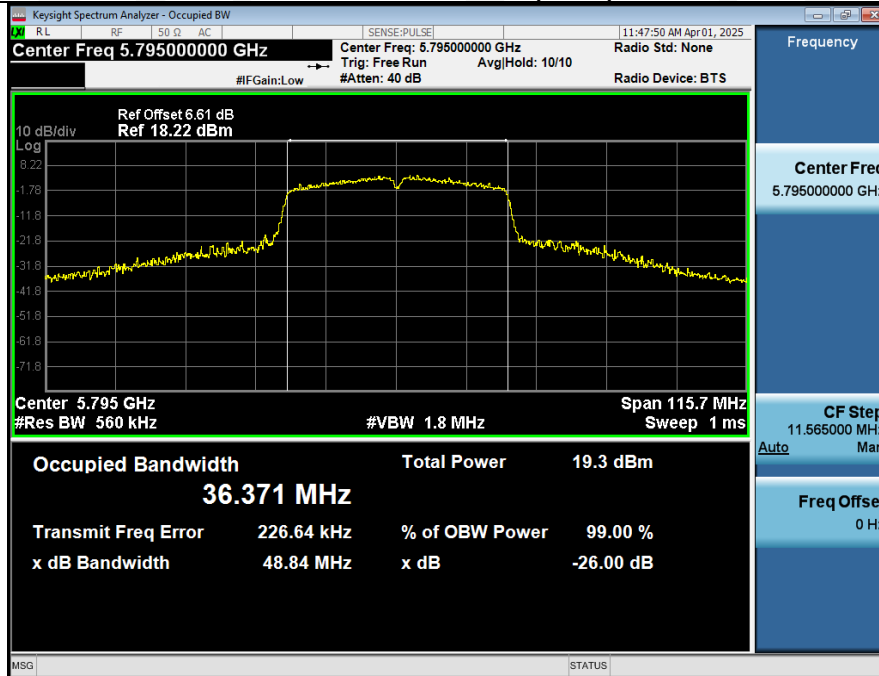
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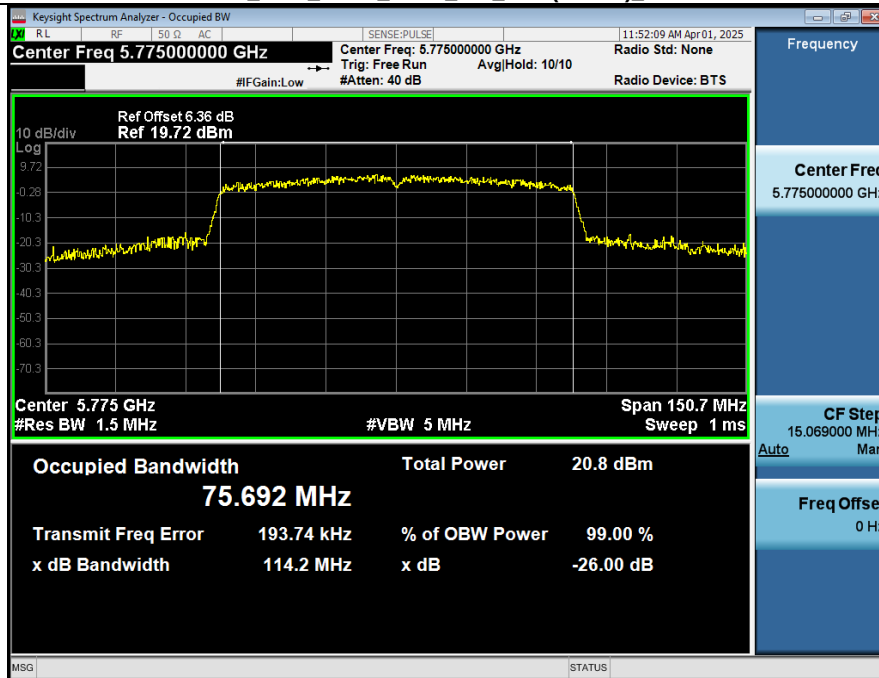
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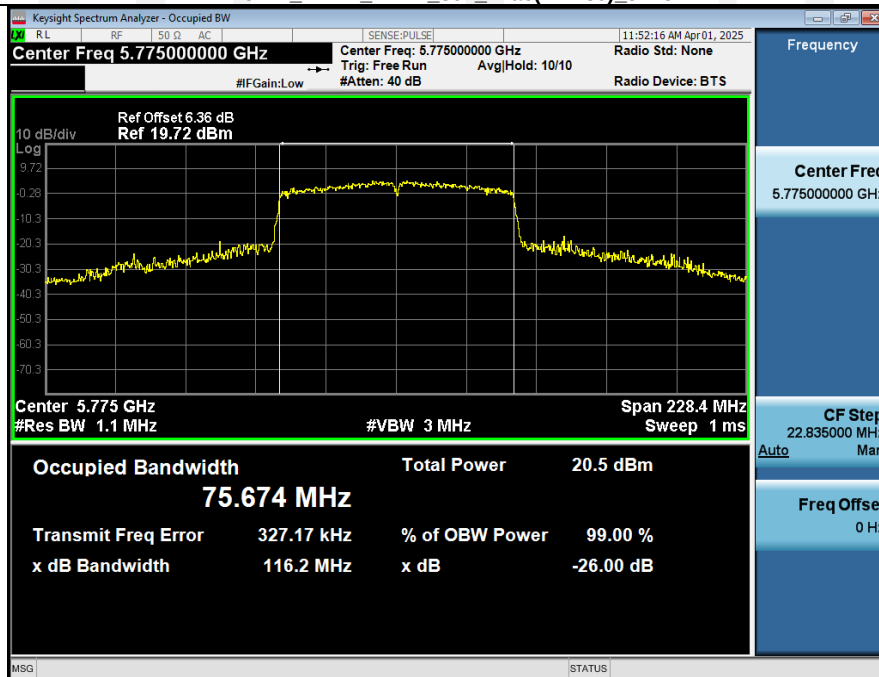
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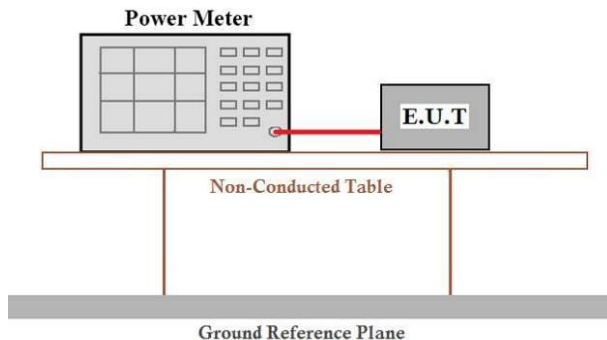
99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5775



-26BW_NVNT_ANT1_802_11ac(VHT80)_5775



4.4 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
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 the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W. IC: For the 5.15–5.25 GHz band, For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. For the 5.25–5.35 GHz band, Other than devices installed in vehicles, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. 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:**

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	6.81	0.12	6.93	24	Pass
NVNT	ANT1	802.11a	5200.00	6.17	0.09	6.26	24	Pass
NVNT	ANT1	802.11a	5240.00	6.80	0.12	6.92	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	6.44	0.13	6.57	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	6.62	0.10	6.72	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	6.83	0.13	6.96	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	6.73	0.10	6.83	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	6.66	0.10	6.76	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	6.02	0.10	6.12	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	6.90	0.00	6.90	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	6.69	0.26	6.95	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	6.43	0.26	6.69	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	6.69	0.26	6.95	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	6.23	0.38	6.61	24	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	97.20	0.12
NVNT	ANT1	802.11a	5200.00	97.90	0.09
NVNT	ANT1	802.11a	5240.00	97.20	0.12
NVNT	ANT1	802.11n(HT20)	5180.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5200.00	97.74	0.10
NVNT	ANT1	802.11n(HT20)	5240.00	97.01	0.13
NVNT	ANT1	802.11ac(VHT20)	5180.00	97.76	0.10
NVNT	ANT1	802.11ac(VHT20)	5200.00	97.76	0.10
NVNT	ANT1	802.11ac(VHT20)	5240.00	97.78	0.10
NVNT	ANT1	802.11n(HT40)	5190.00	98.06	0.00
NVNT	ANT1	802.11n(HT40)	5230.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5190.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5230.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT80)	5210.00	91.67	0.38

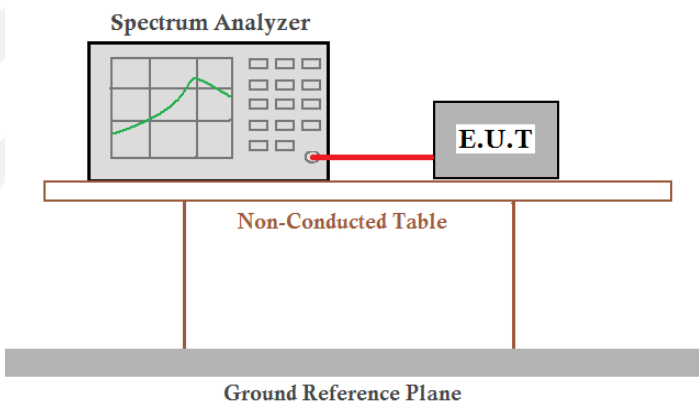
Band 4 (5725 – 5850 MHz) SISO:

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	6.29	0.09	6.38	30	Pass
NVNT	ANT1	802.11a	5785.00	6.81	0.12	6.93	30	Pass
NVNT	ANT1	802.11a	5825.00	6.39	0.12	6.51	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	6.27	0.13	6.40	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	6.67	0.13	6.80	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	6.50	0.10	6.60	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	6.75	0.13	6.88	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	6.11	0.13	6.24	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	6.75	0.13	6.88	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	6.52	0.26	6.78	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	6.54	0.26	6.80	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	6.50	0.26	6.76	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	6.47	0.13	6.60	30	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	6.61	0.38	6.99	30	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5745.00	97.90	0.09
NVNT	ANT1	802.11a	5785.00	97.20	0.12
NVNT	ANT1	802.11a	5825.00	97.20	0.12
NVNT	ANT1	802.11n(HT20)	5745.00	96.99	0.13
NVNT	ANT1	802.11n(HT20)	5785.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5825.00	97.74	0.10
NVNT	ANT1	802.11ac(VHT20)	5745.00	97.04	0.13
NVNT	ANT1	802.11ac(VHT20)	5785.00	97.04	0.13
NVNT	ANT1	802.11ac(VHT20)	5825.00	97.04	0.13
NVNT	ANT1	802.11n(HT40)	5755.00	94.12	0.26
NVNT	ANT1	802.11n(HT40)	5795.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5755.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5795.00	97.10	0.13
NVNT	ANT1	802.11ac(VHT80)	5775.00	91.67	0.38

Note: The measure-and-sum technique shall be used for measuring in-band transmit power of a device. Total power is the sum of the conducted power levels measured at the various output ports.

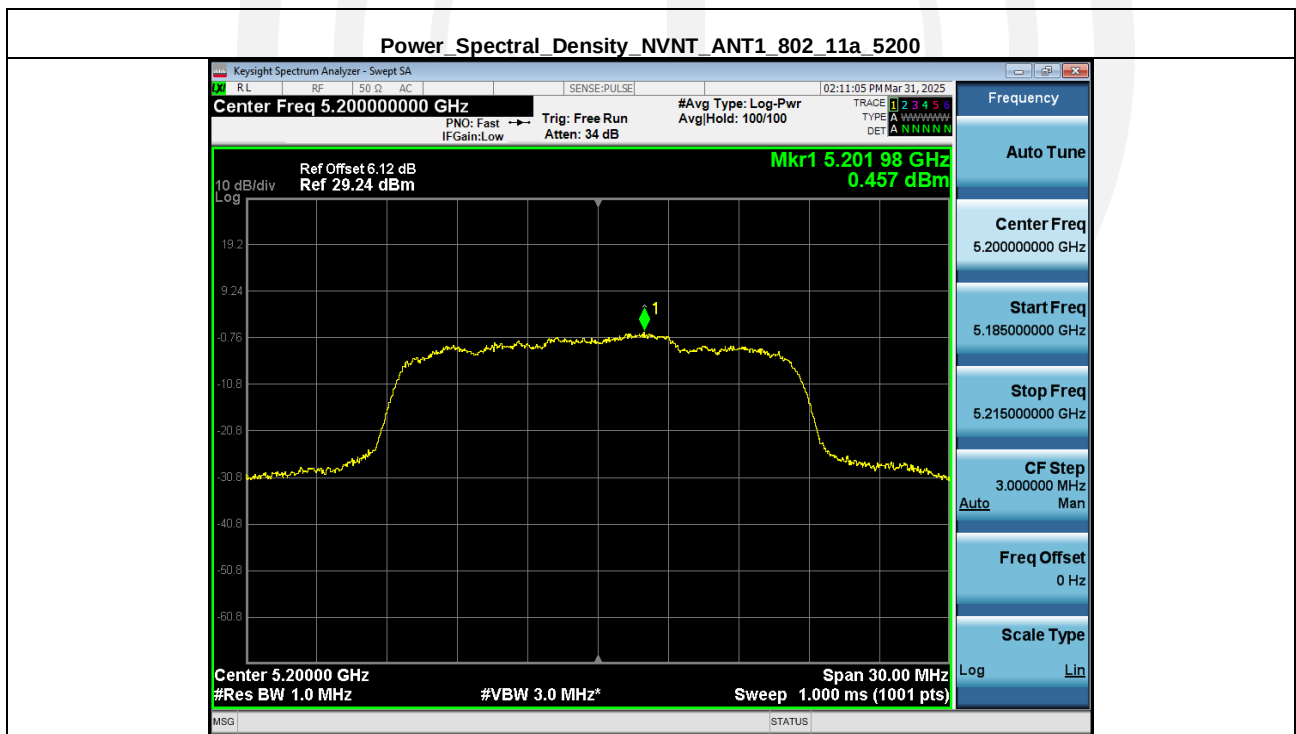
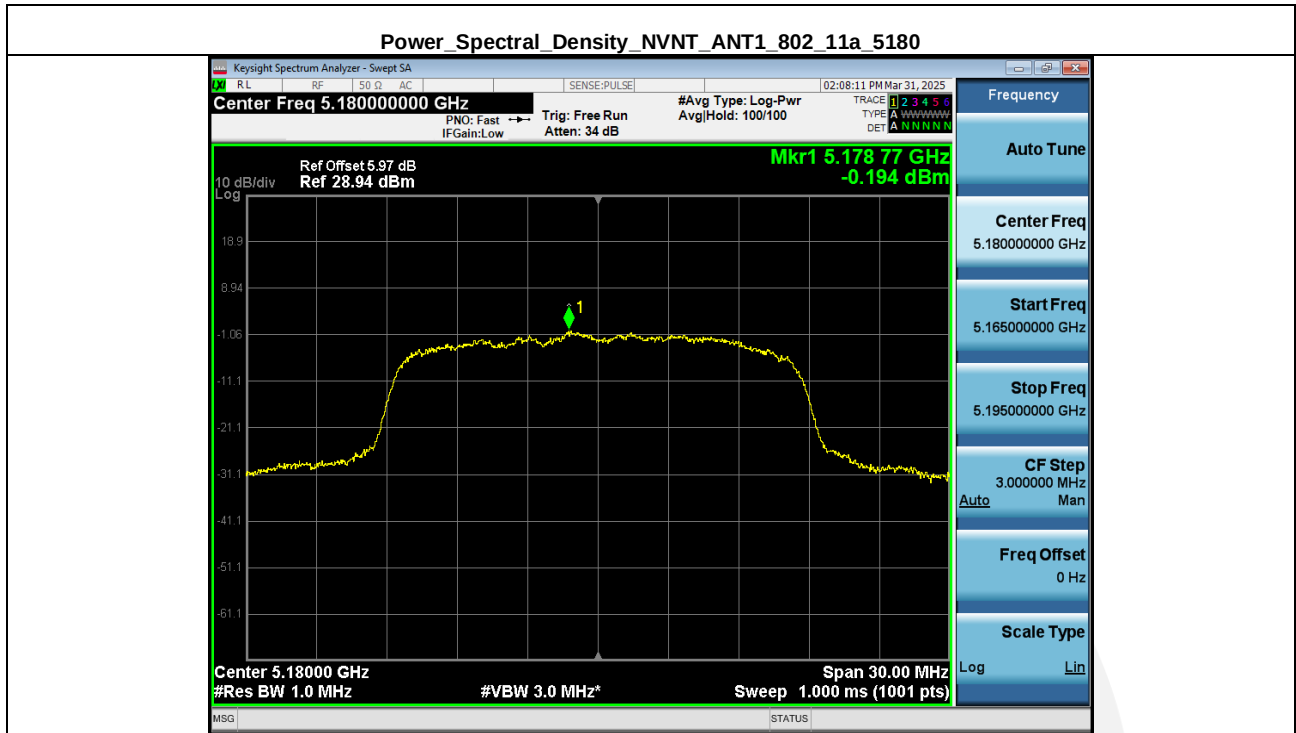
4.5 Power Spectral Density

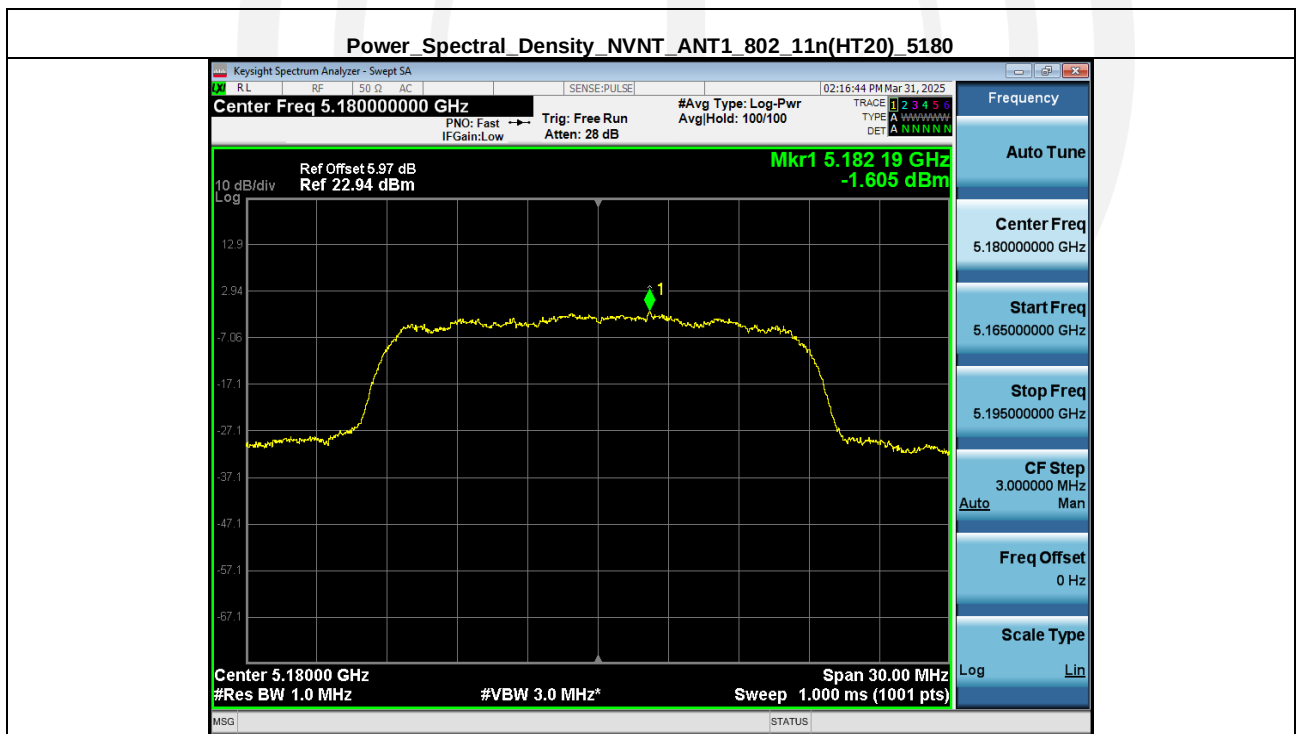
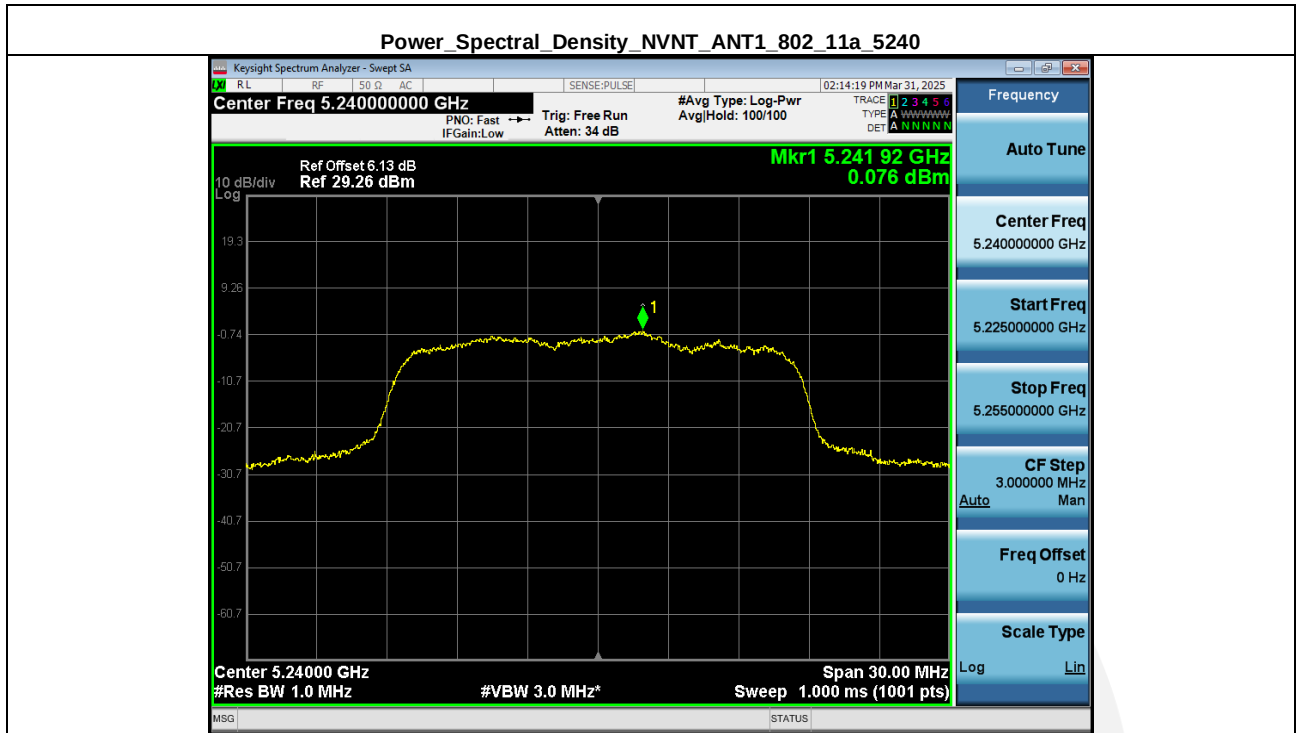
Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	FCC: 1. $\leq 11.00 \text{ dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz 2. $\leq 30.00 \text{ dBm/500KHz}$ for 5725MHz-5850MHz IC: 1. For the 5.15-5.25 GHz, The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. 2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power..." 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

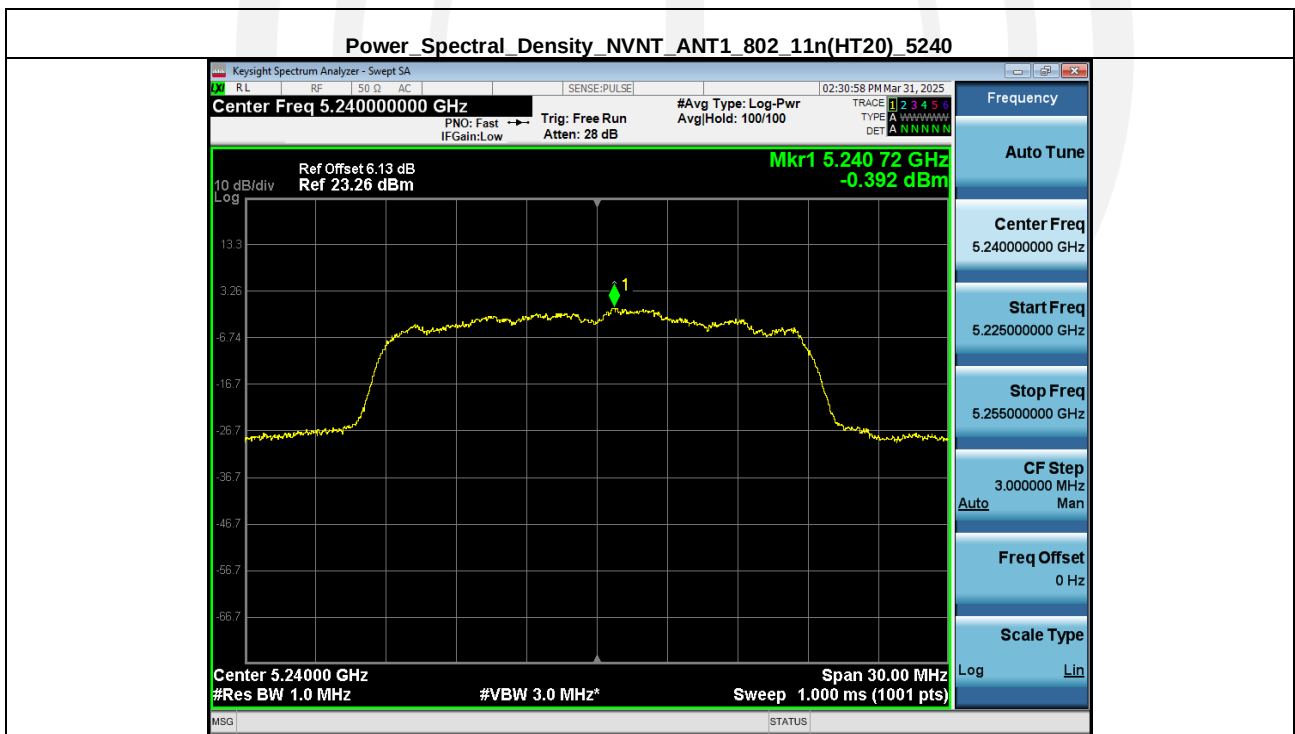
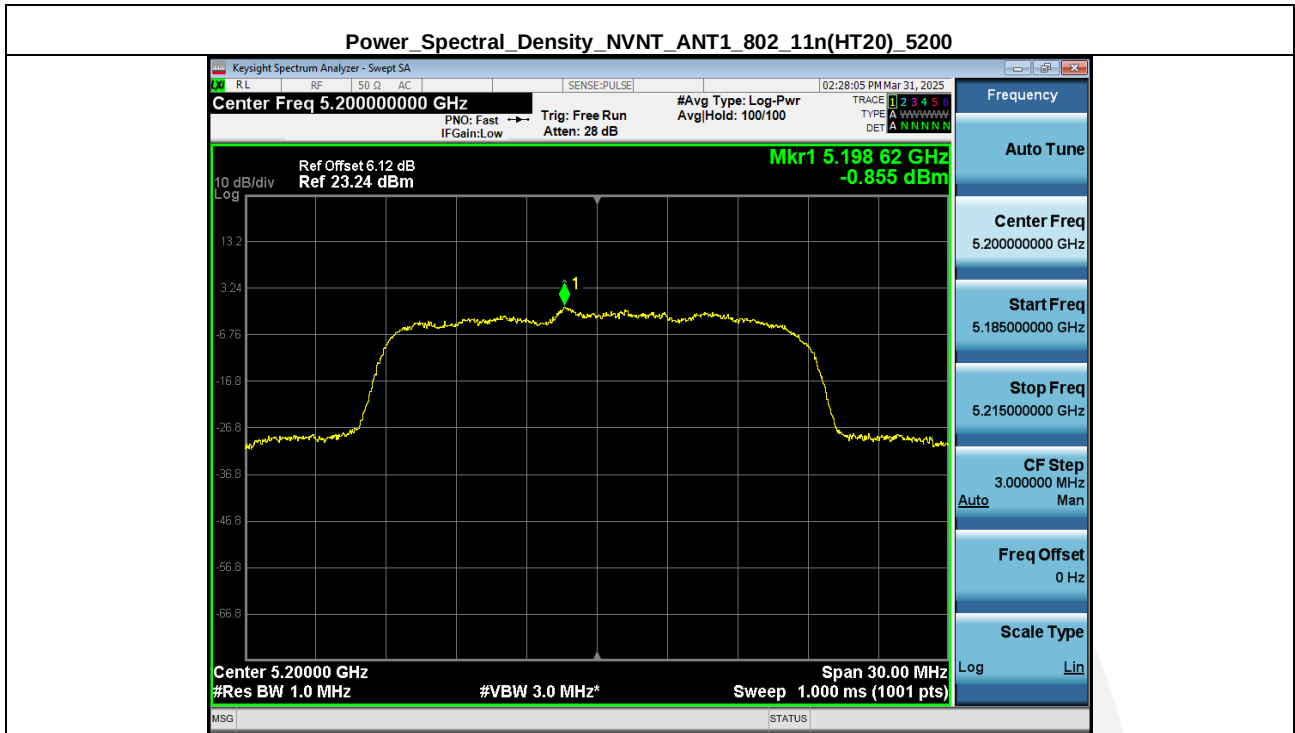
Measurement Data**Band 1 (5150-5250 MHz) SISO:**

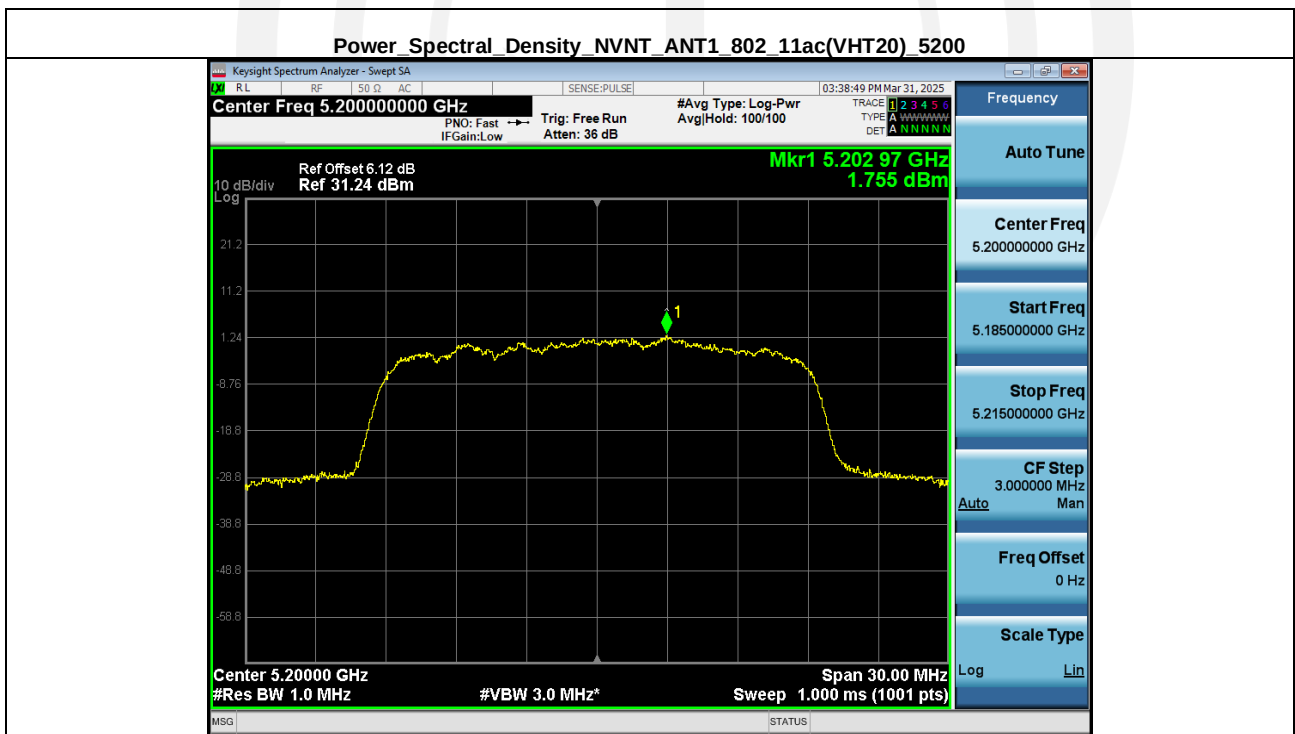
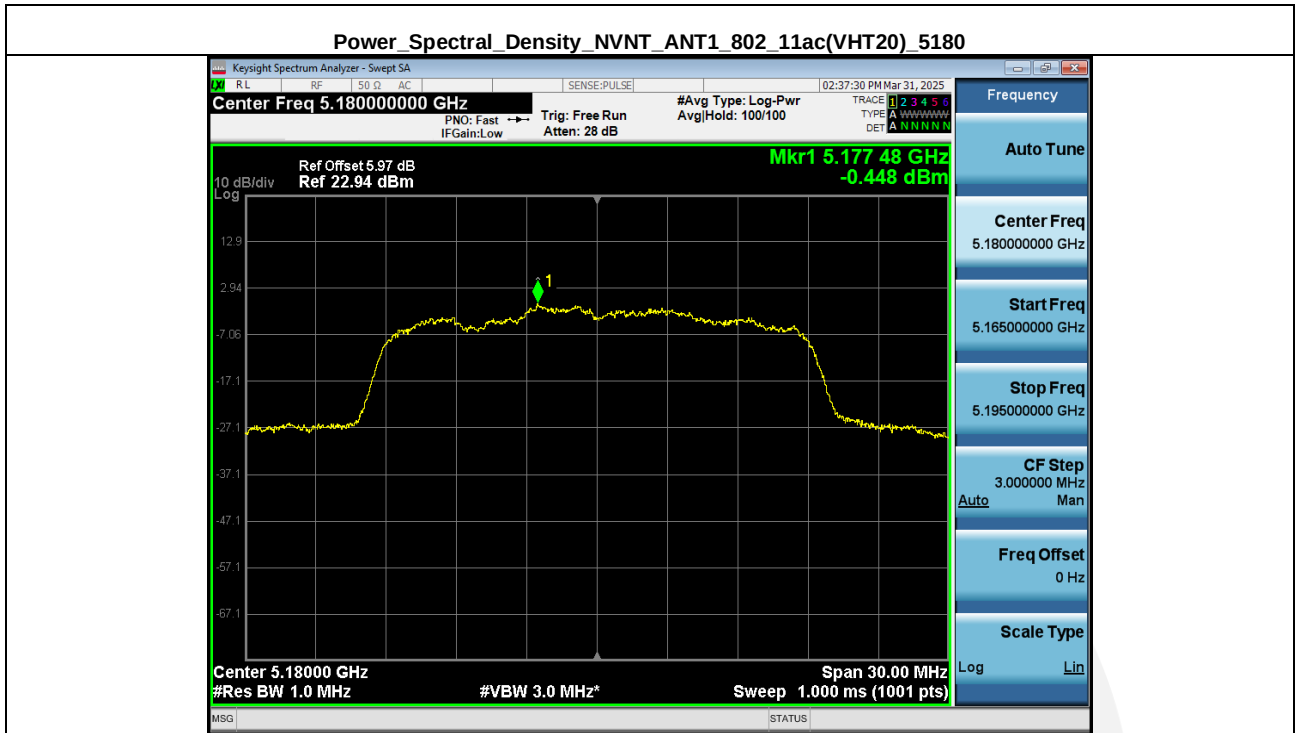
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-0.19	0.12	-0.07	11	Pass
NVNT	ANT1	802.11a	5200.00	0.46	0.09	0.55	11	Pass
NVNT	ANT1	802.11a	5240.00	0.08	0.12	0.20	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-1.60	0.13	-1.48	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-0.85	0.10	-0.76	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-0.39	0.13	-0.26	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-0.45	0.10	-0.35	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	1.75	0.10	1.85	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	1.10	0.10	1.20	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-2.76	0.00	-2.76	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-1.22	0.26	-0.96	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-2.36	0.26	-2.10	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-1.16	0.26	-0.90	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-6.88	0.38	-6.50	11	Pass

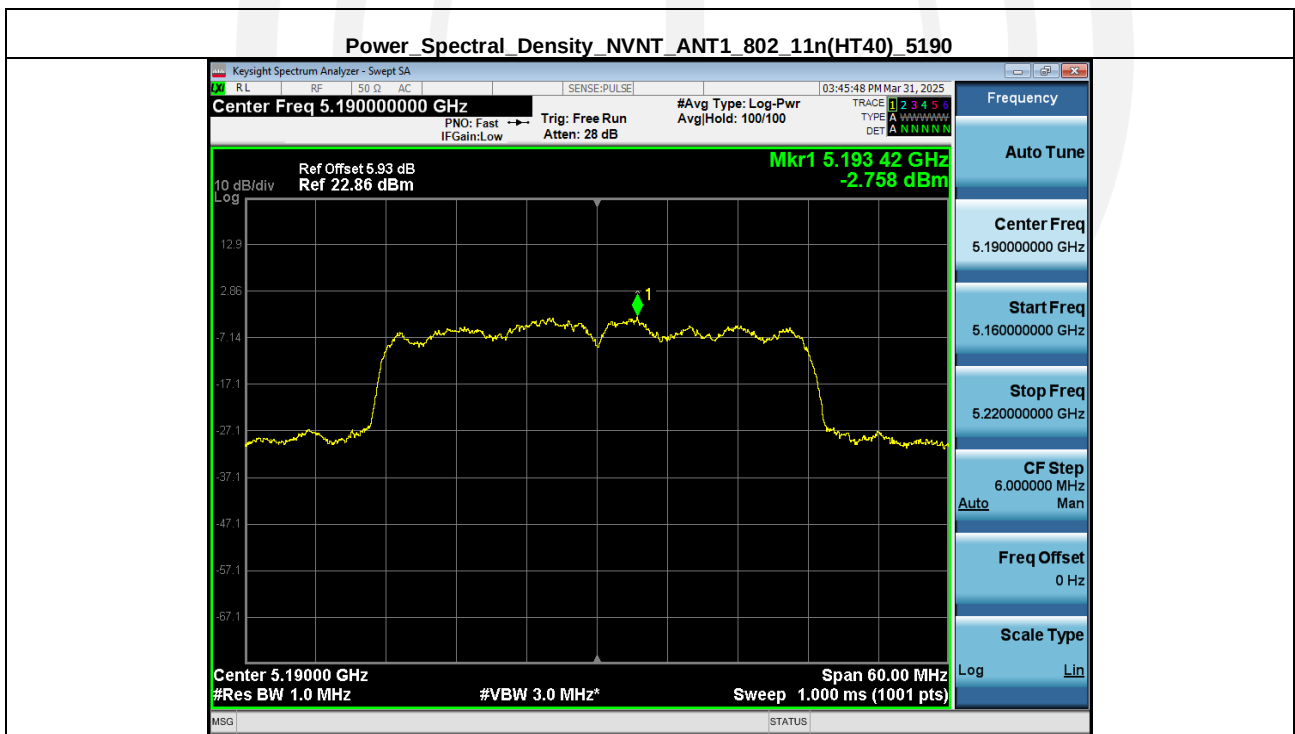
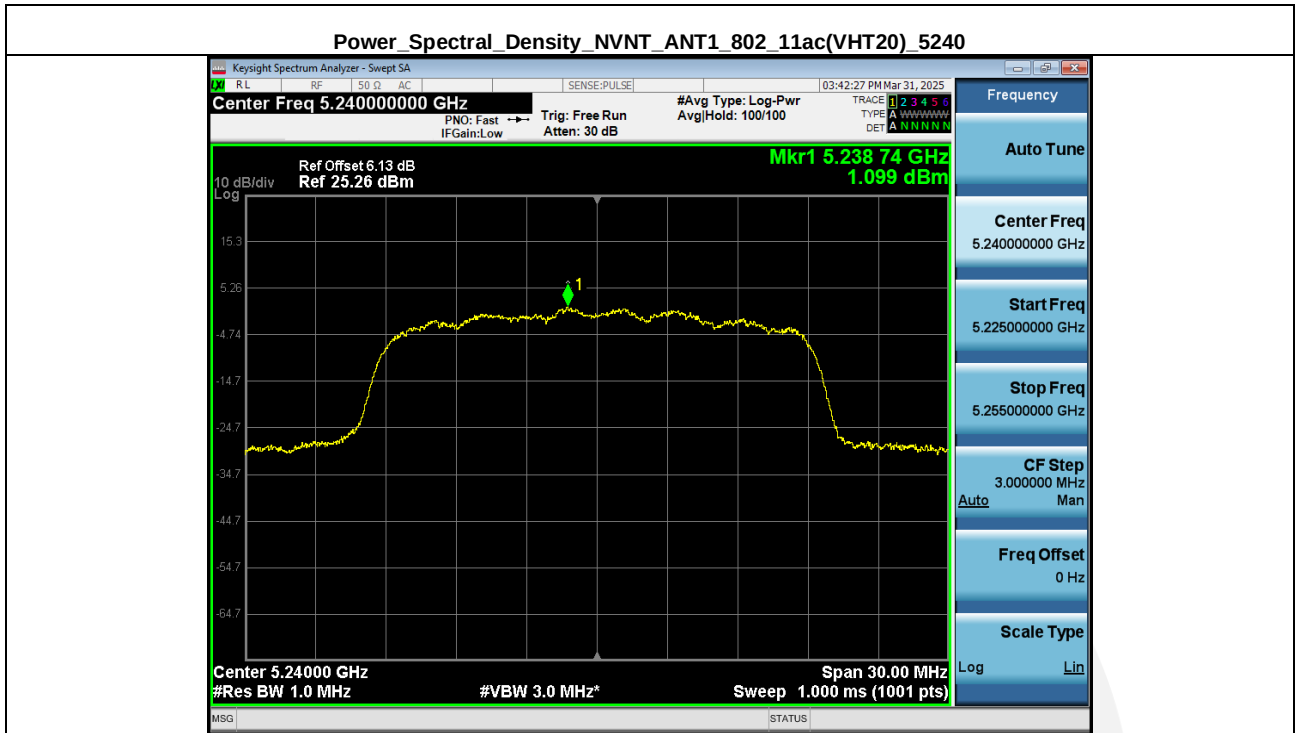


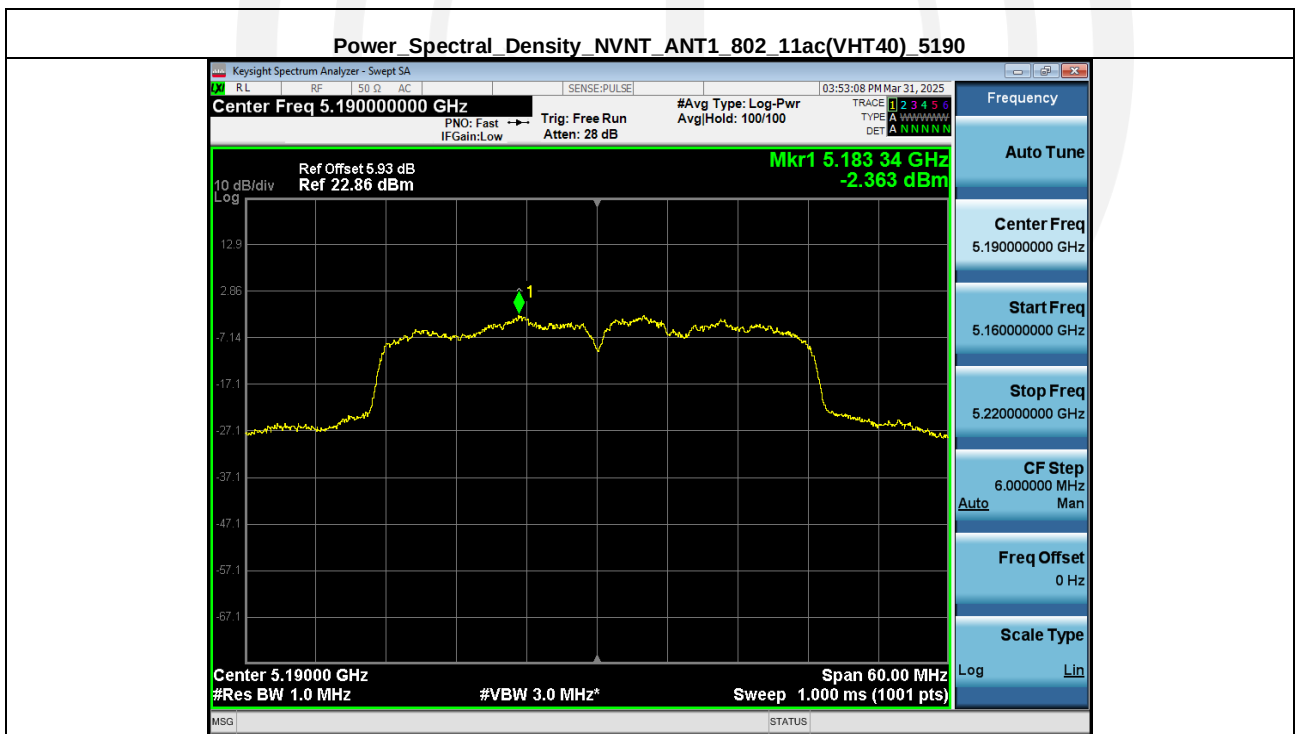
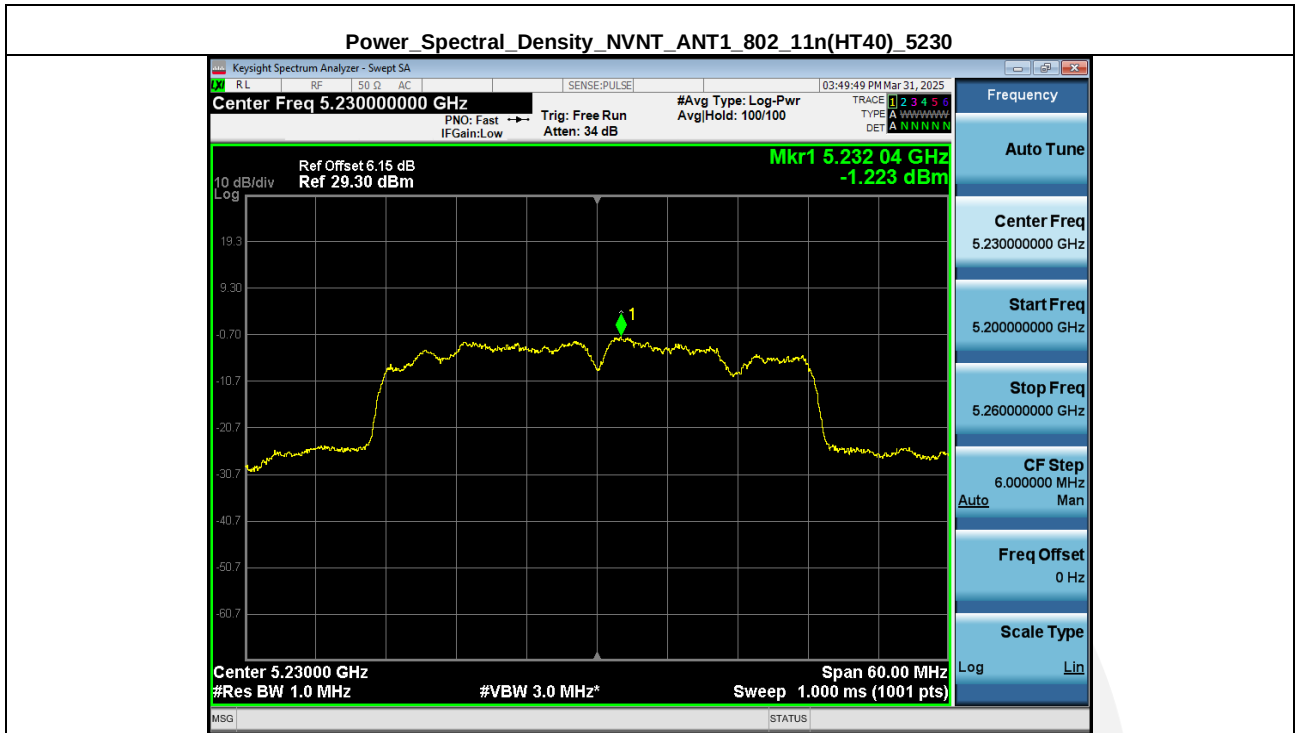


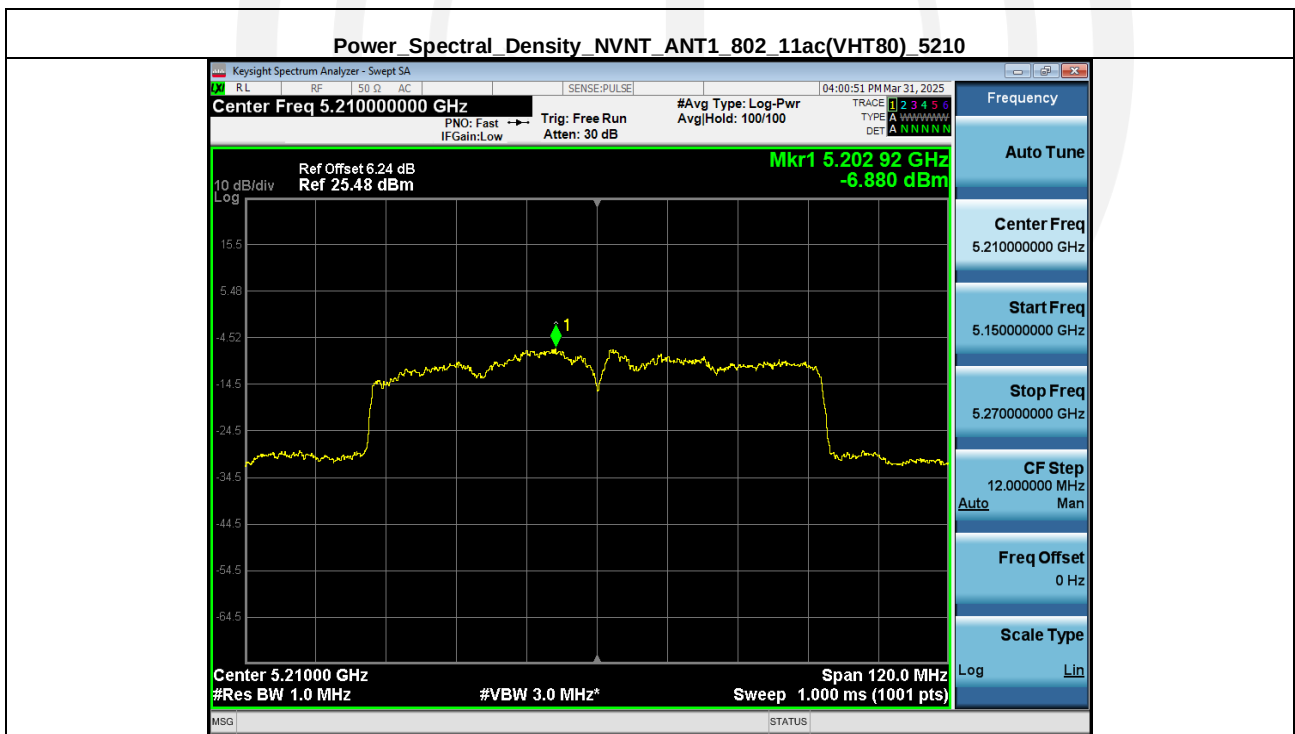
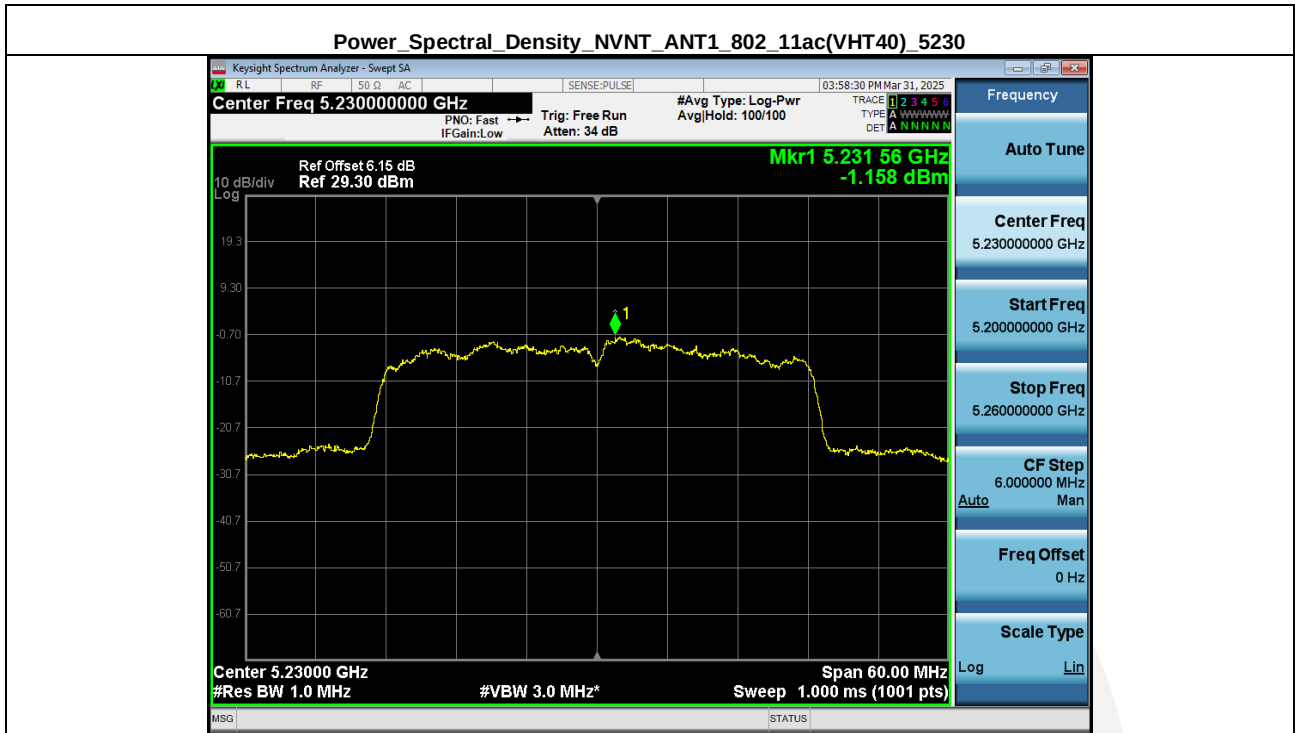








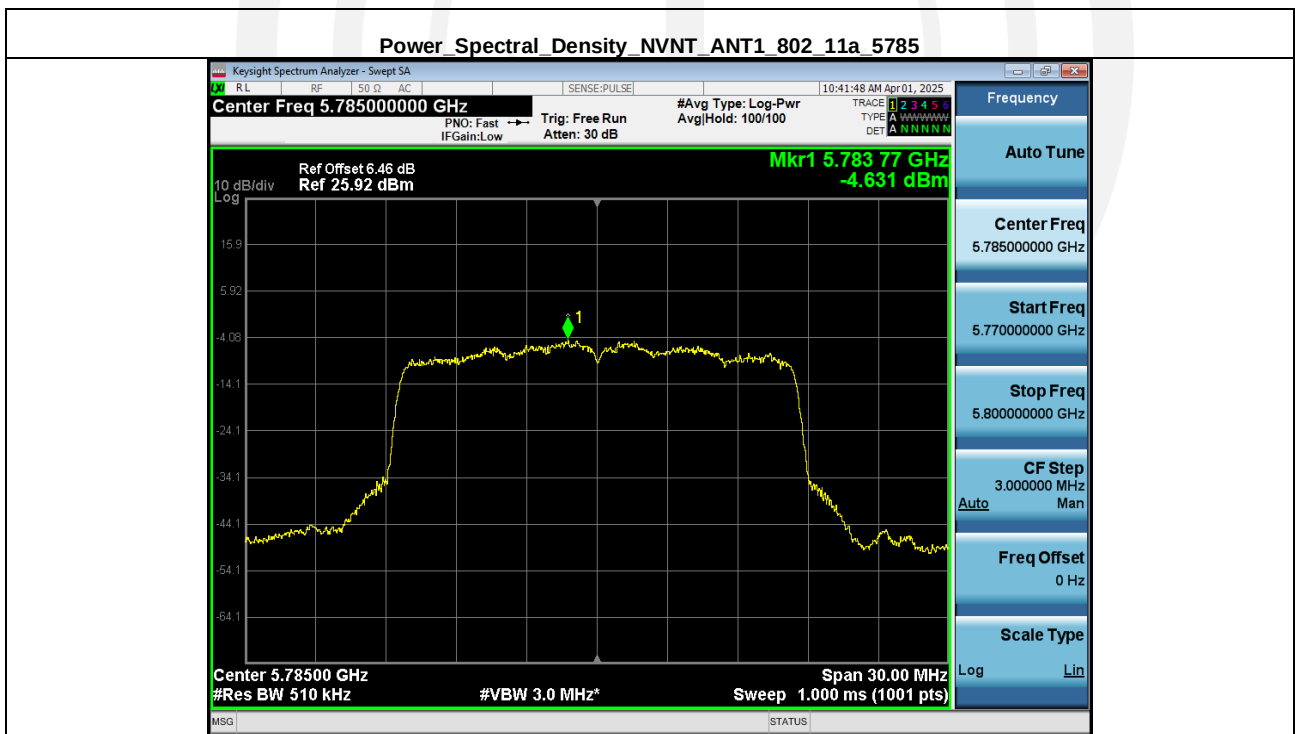
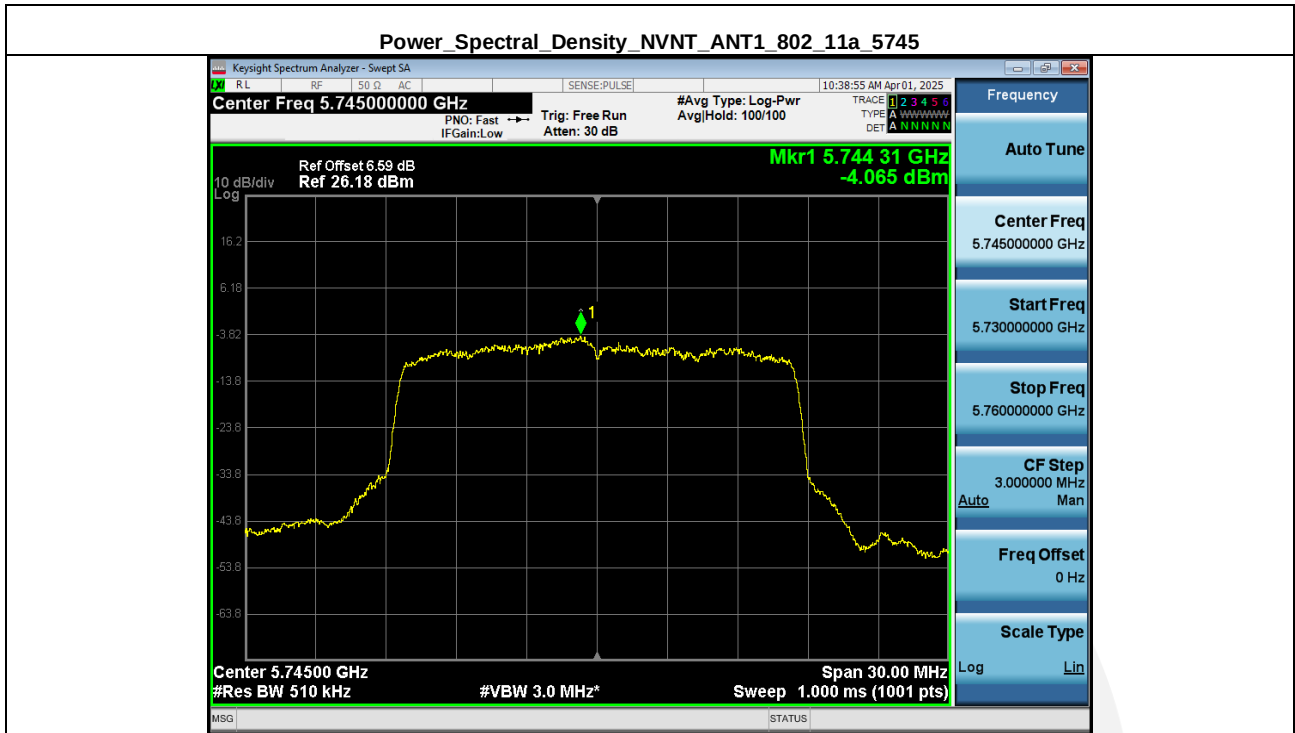


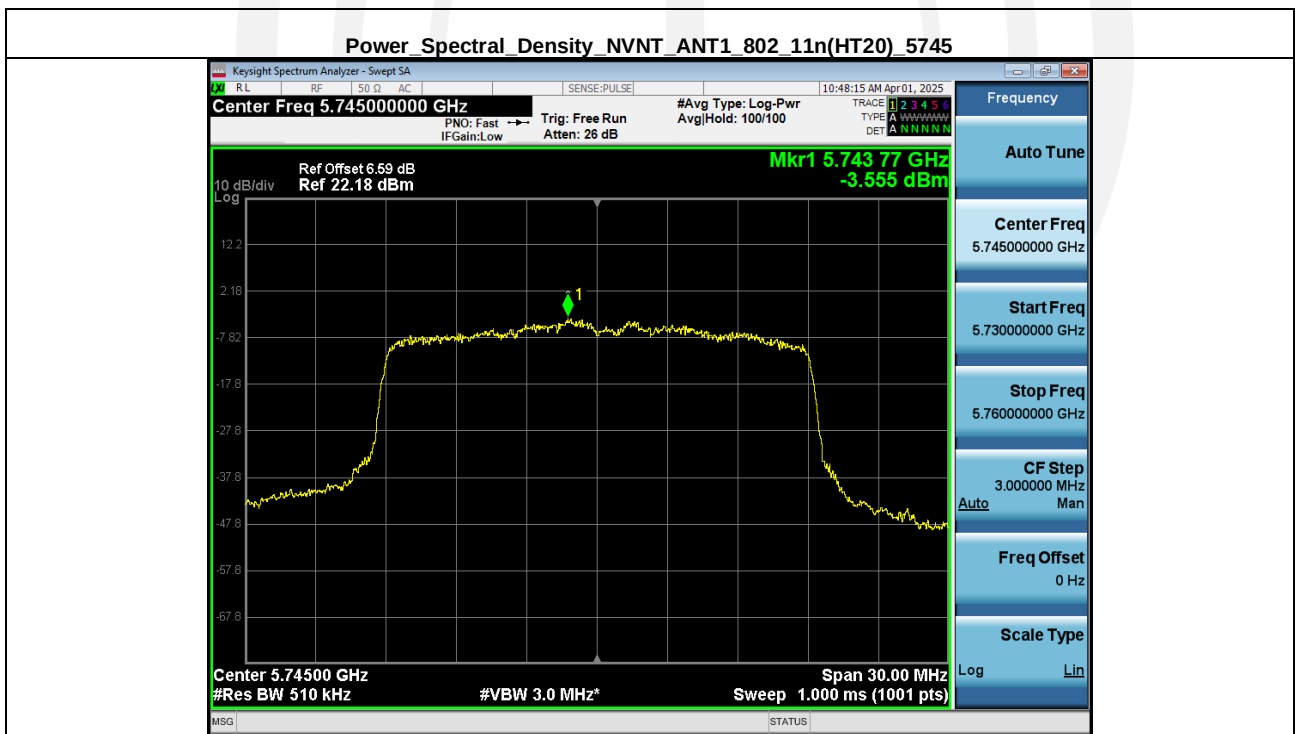
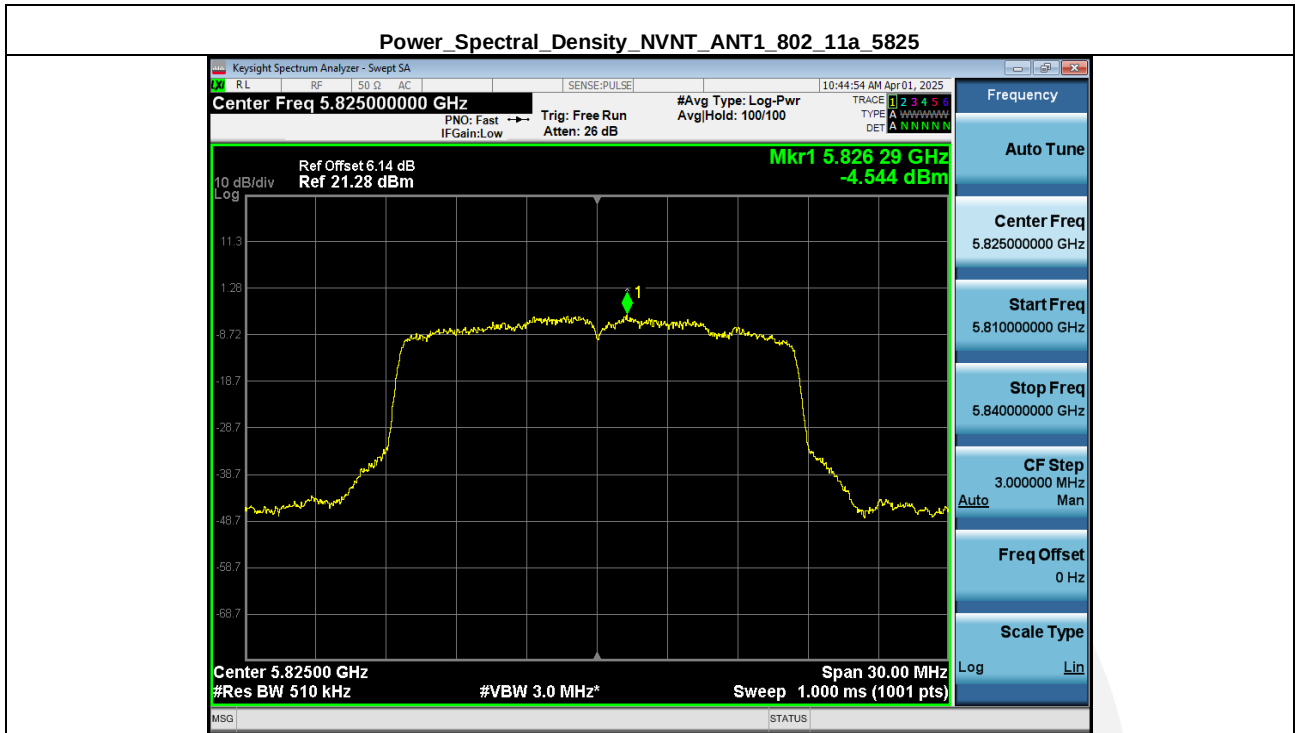


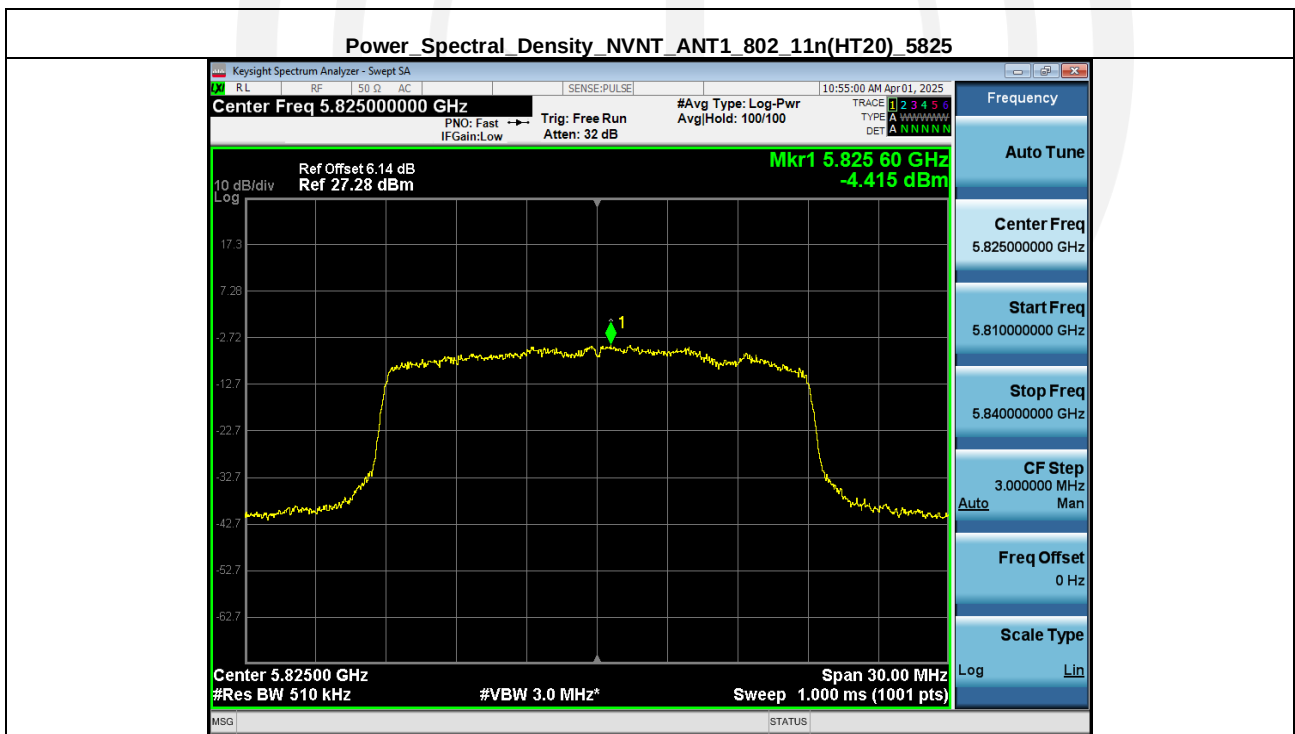
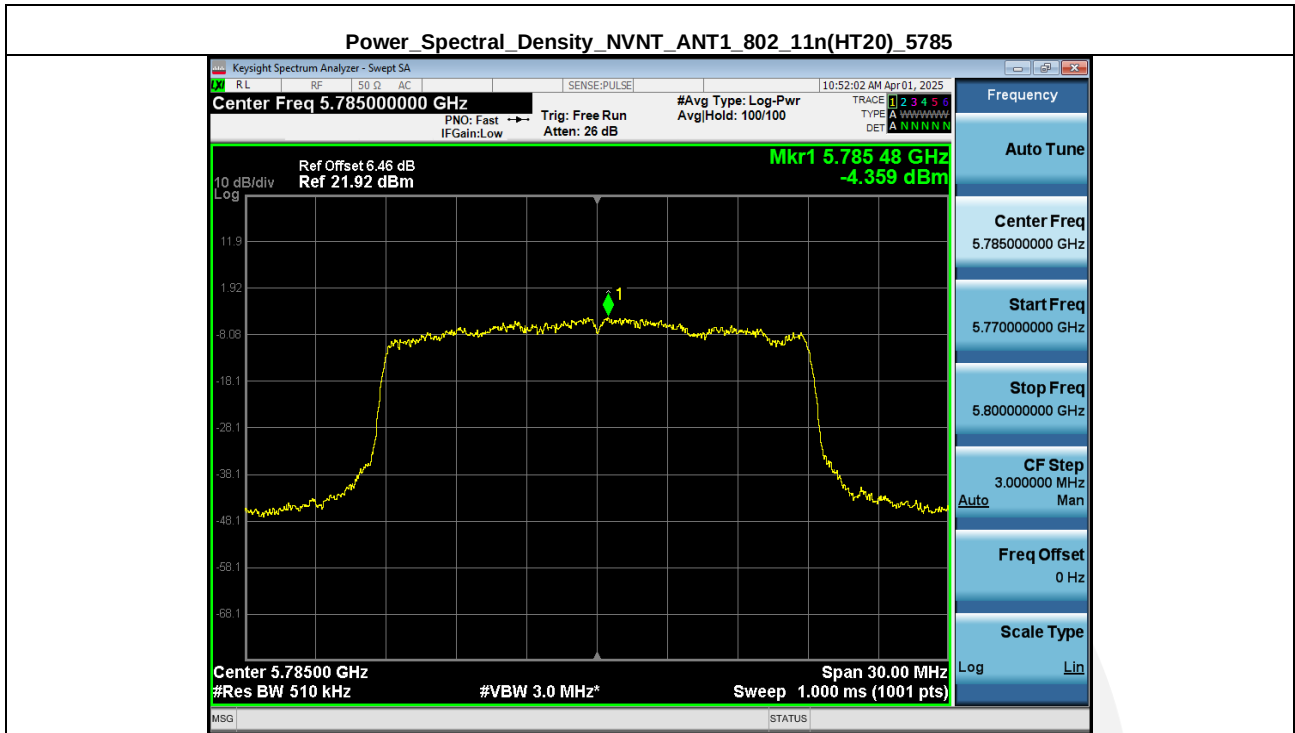
Band 4 (5725 – 5850 MHz) SISO:

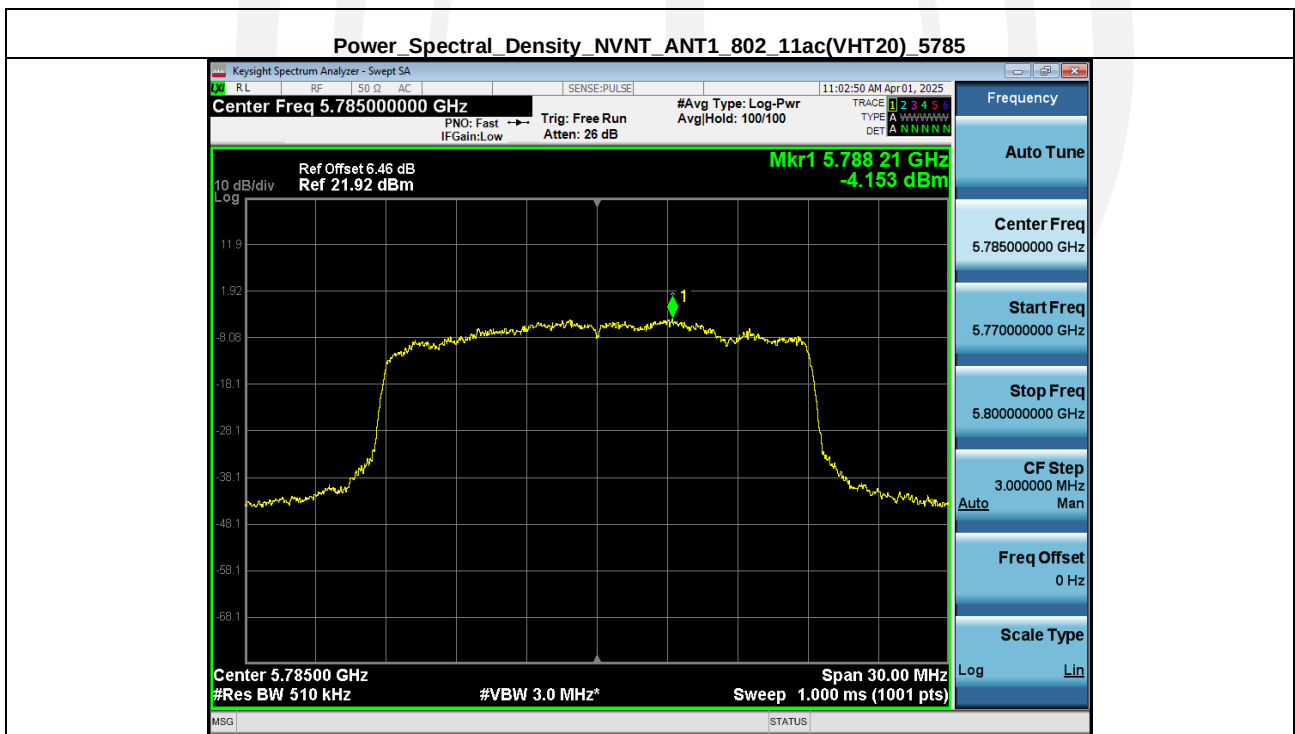
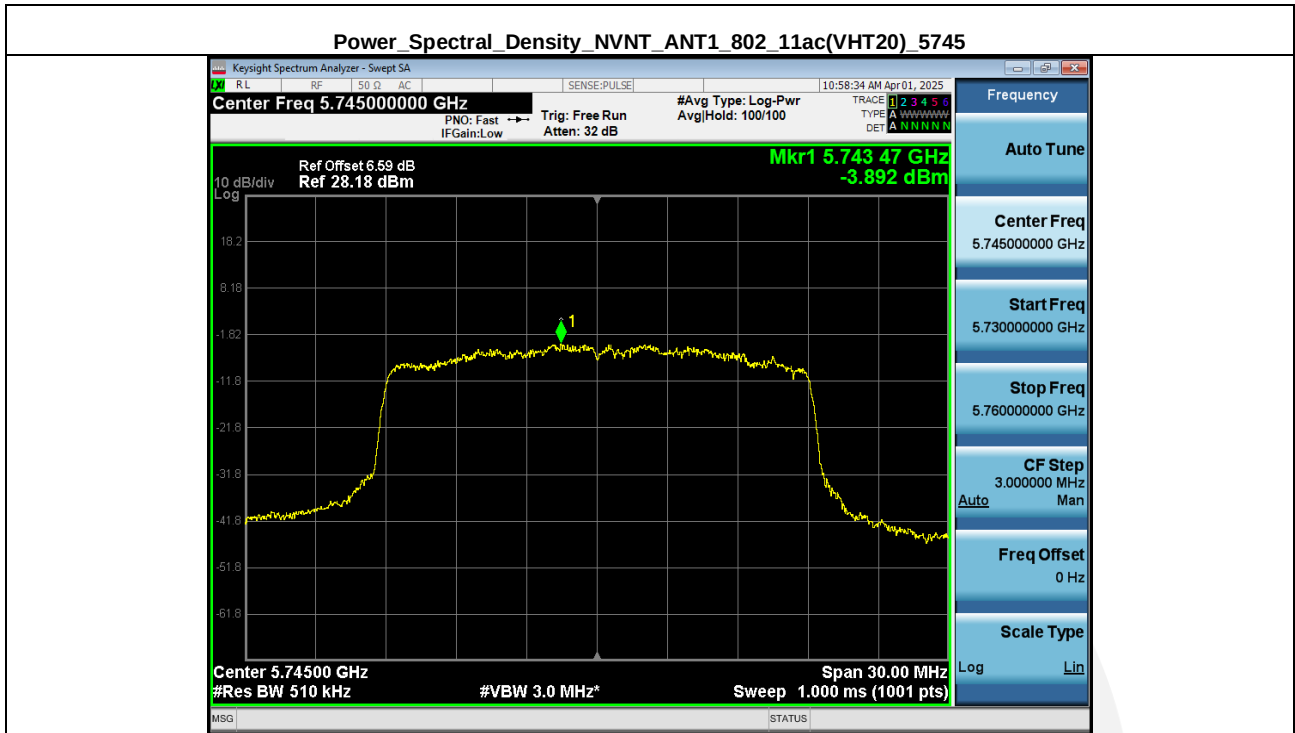
Condition	Antenna	Modulation	Frequency (MHz)	PSD _{SA} (dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
NVNT	ANT1	802.11a	5745.00	-4.07	0.09	-0	-4.06	30	Pass
NVNT	ANT1	802.11a	5785.00	-4.63	0.12	-0	-4.60	30	Pass
NVNT	ANT1	802.11a	5825.00	-4.54	0.12	-0	-4.51	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	-3.56	0.13	-0	-3.51	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	-4.36	0.13	-0	-4.32	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	-4.42	0.10	-0	-4.40	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	-3.89	0.13	-0	-3.85	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	-4.15	0.13	-0	-4.11	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	-3.65	0.13	-0	-3.60	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	-7.20	0.26	-0	-7.03	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	-7.16	0.26	-0	-6.98	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	-8.04	0.26	-0	-7.86	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	-7.86	0.13	-0	-7.82	30	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	-13.37	0.38	-0	-13.07	30	Pass



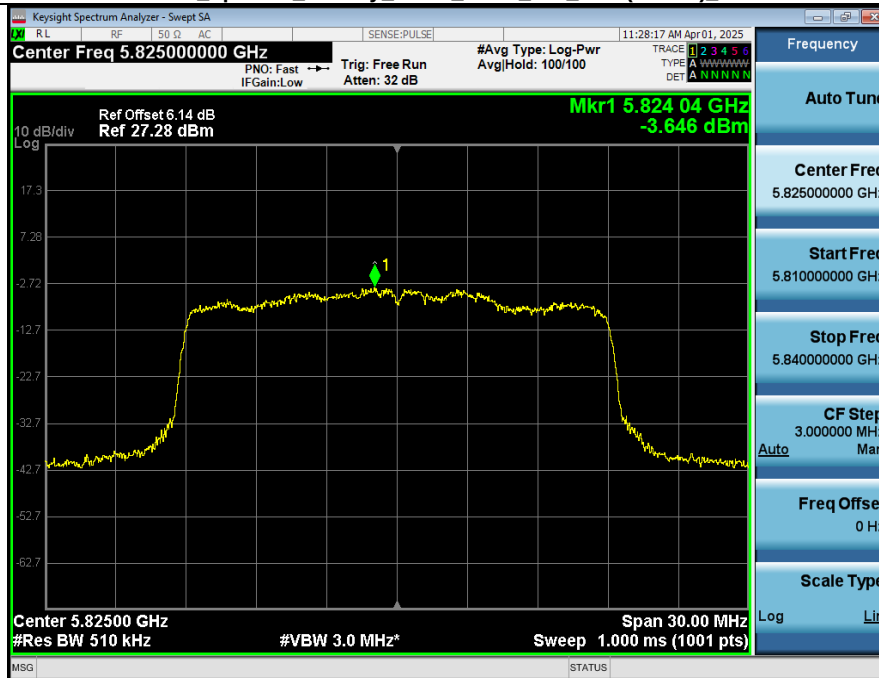








Power Spectral Density NVNT_ANT1_802_11ac(VHT20)_5825



Power Spectral Density NVNT_ANT1_802_11n(HT40)_5755



