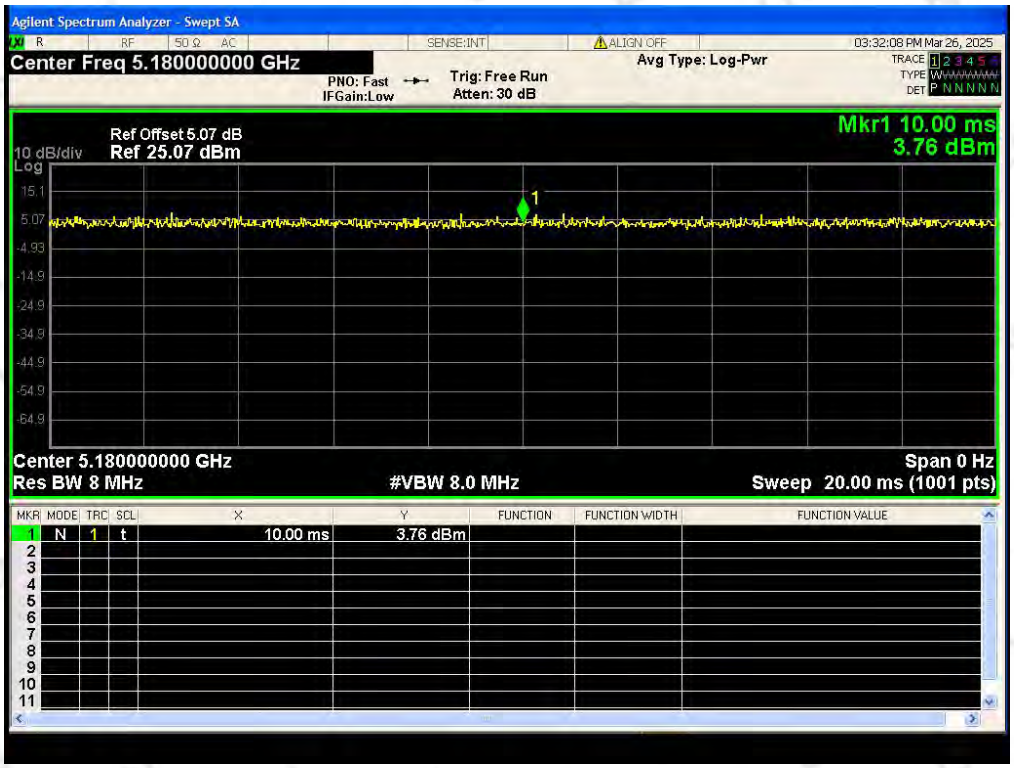
Test Report

ANT 2 5G WIFI RF test data_B1

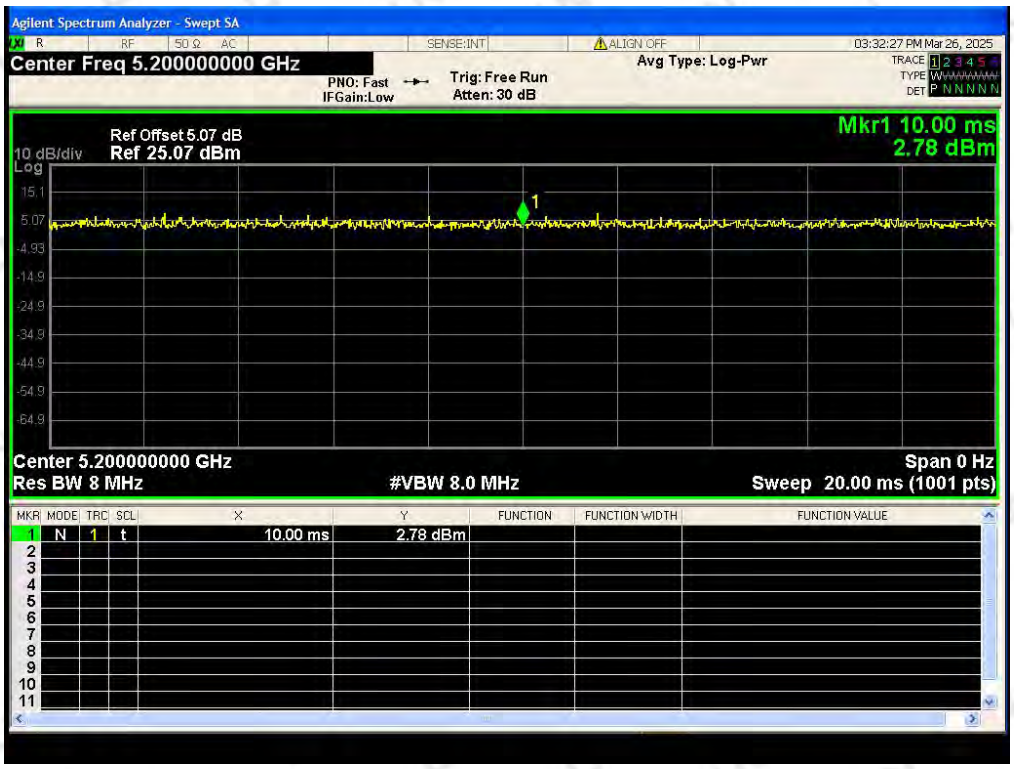
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5180	100	0
NVNT	802.11a	5200	100	0
NVNT	802.11a	5240	100	0
NVNT	802.11ac20	5180	100	0
NVNT	802.11ac20	5200	100	0
NVNT	802.11ac20	5240	100	0
NVNT	802.11ac40	5190	100	0
NVNT	802.11ac40	5230	100	0
NVNT	802.11ac80	5210	100	0
NVNT	802.11n(HT20)	5180	100	0
NVNT	802.11n(HT20)	5200	100	0
NVNT	802.11n(HT20)	5240	100	0
NVNT	802.11n(HT40)	5190	100	0
NVNT	802.11n(HT40)	5230	100	0

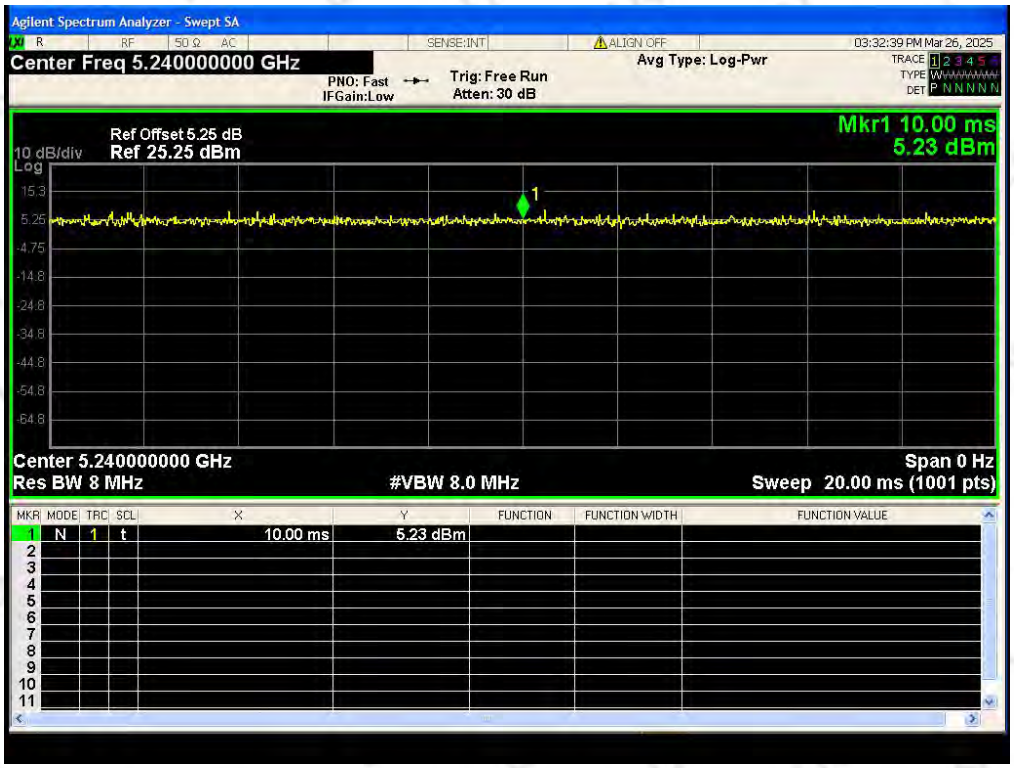
Duty Cycle NVNT 802.11a 5180MHz



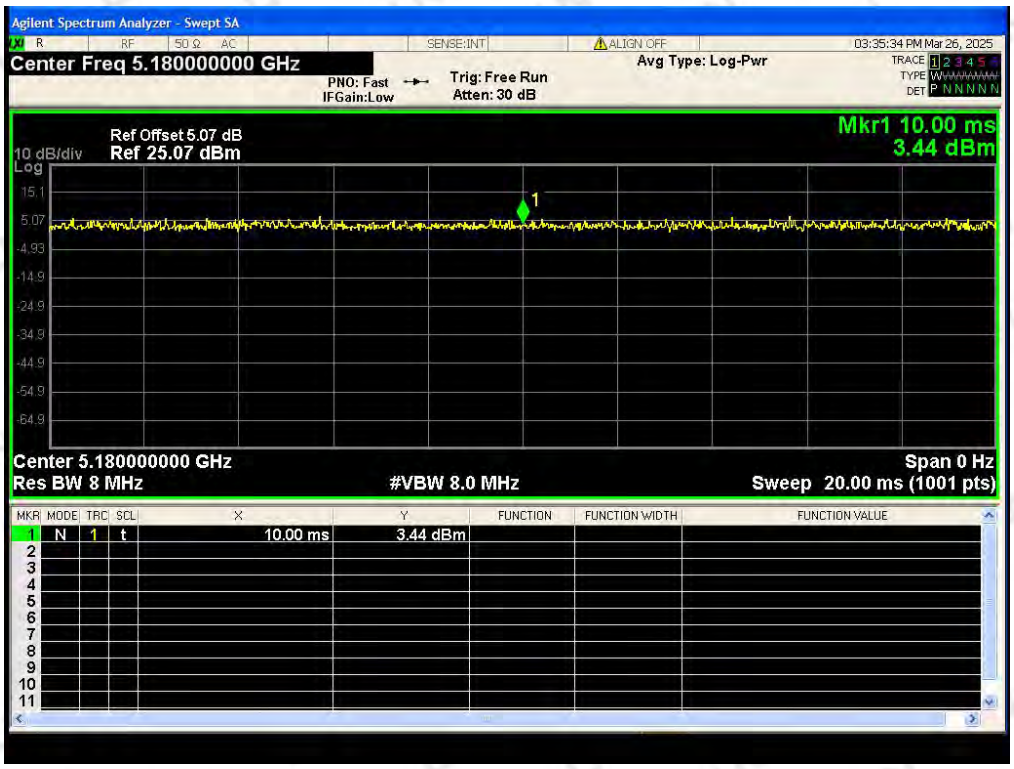
Duty Cycle NVNT 802.11a 5200MHz



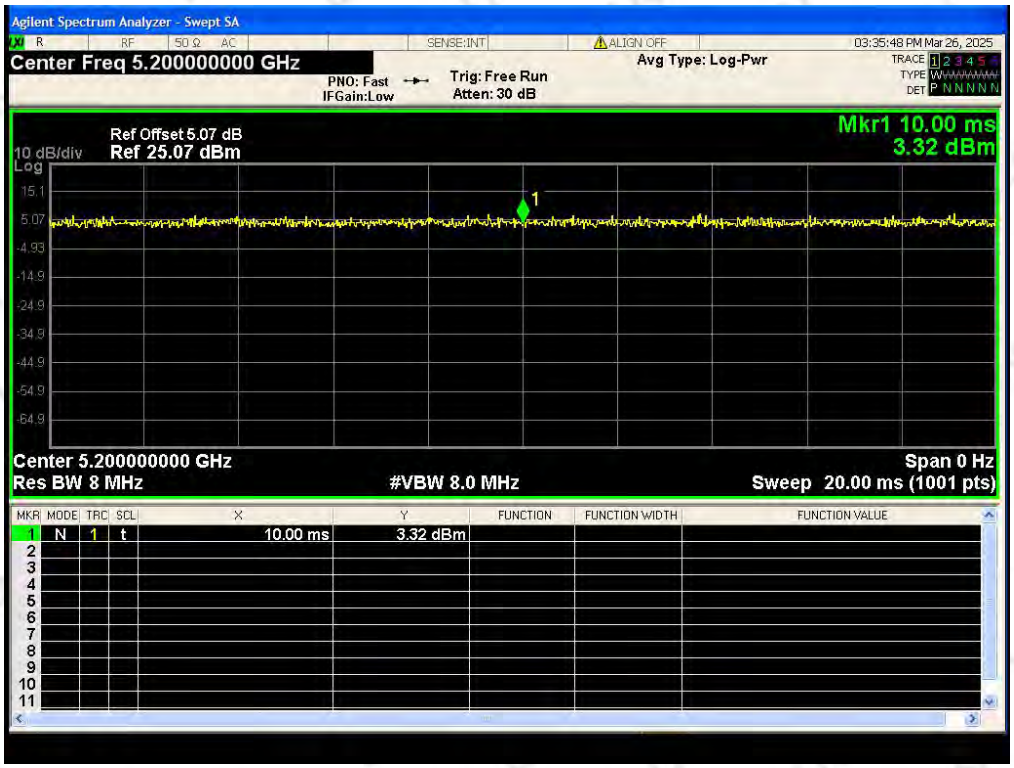
Duty Cycle NVNT 802.11a 5240MHz



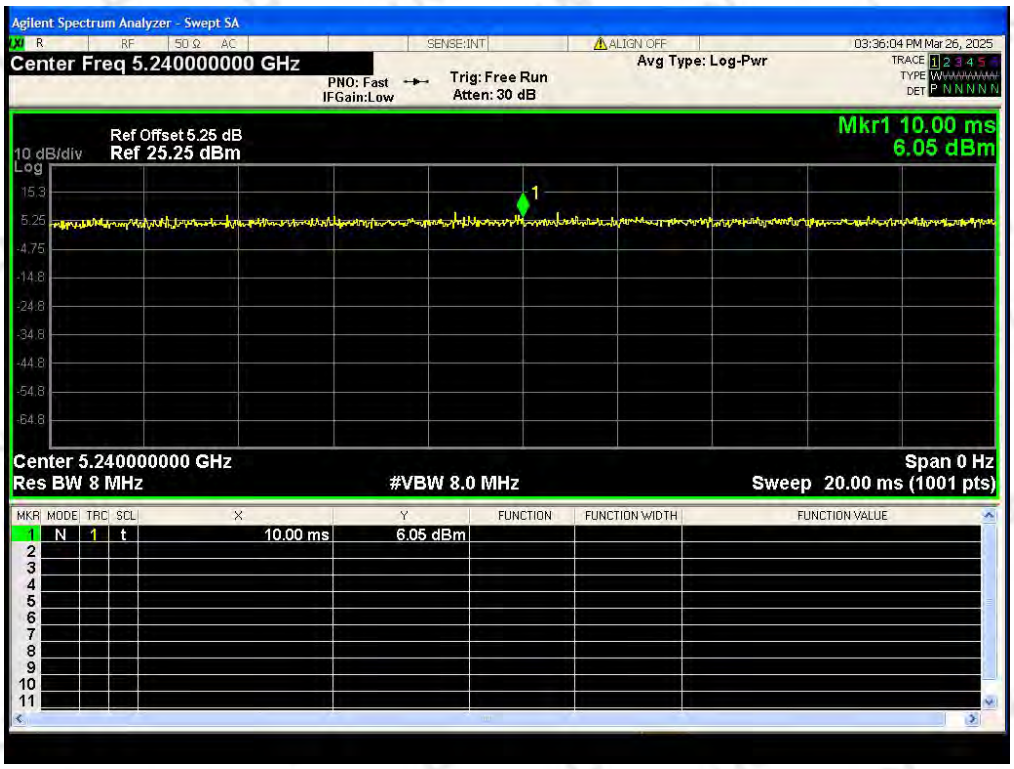
Duty Cycle NVNT 802.11ac20 5180MHz



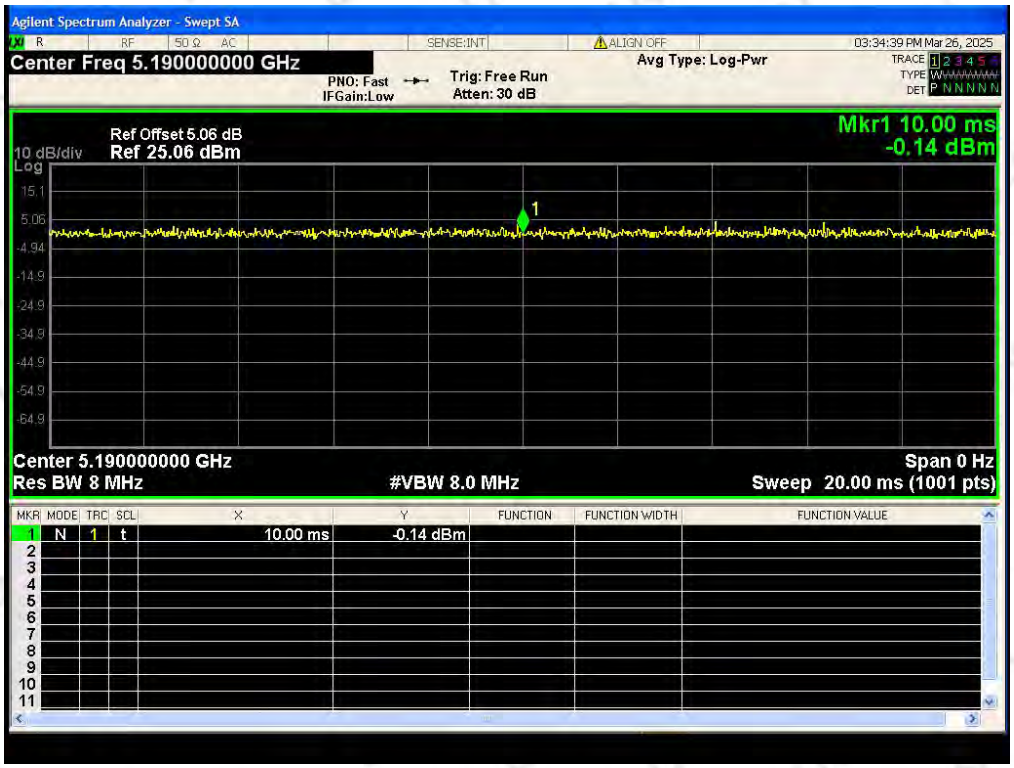
Duty Cycle NVNT 802.11ac20 5200MHz



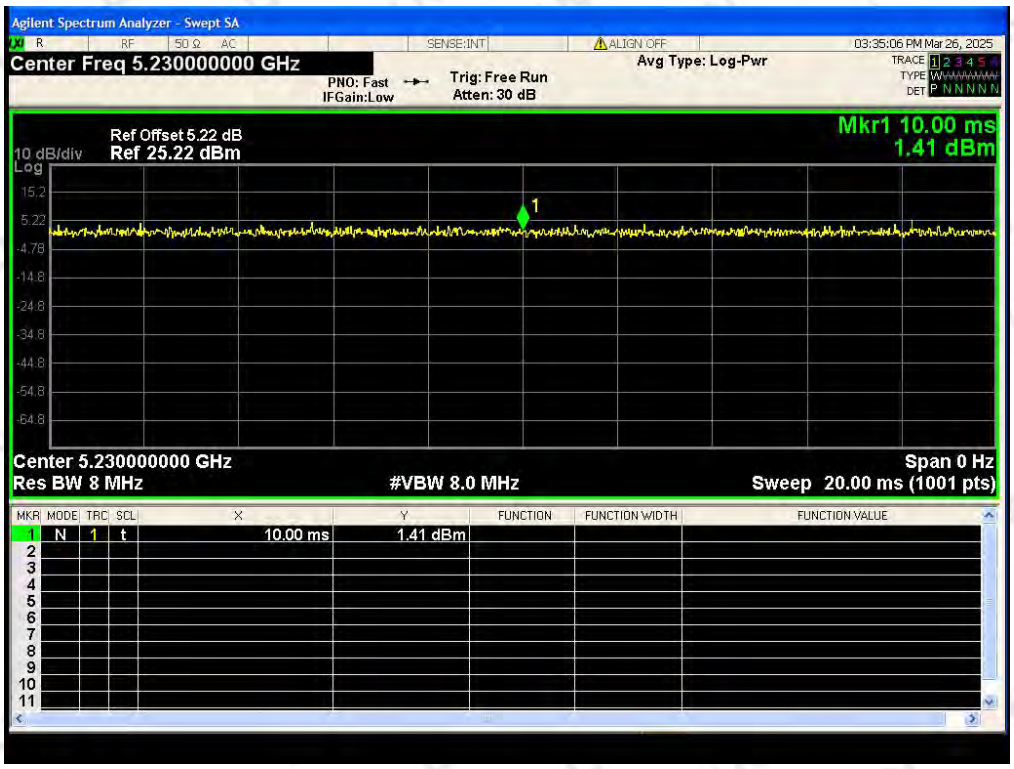
Duty Cycle NVNT 802.11ac20 5240MHz



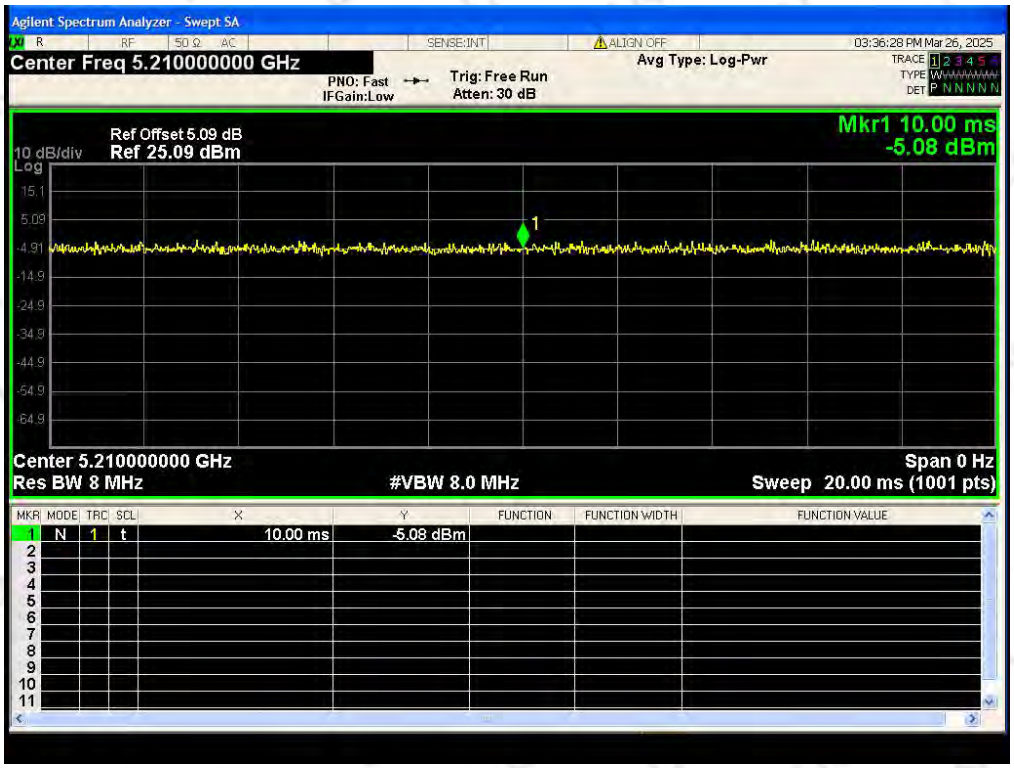
Duty Cycle NVNT 802.11ac40 5190MHz



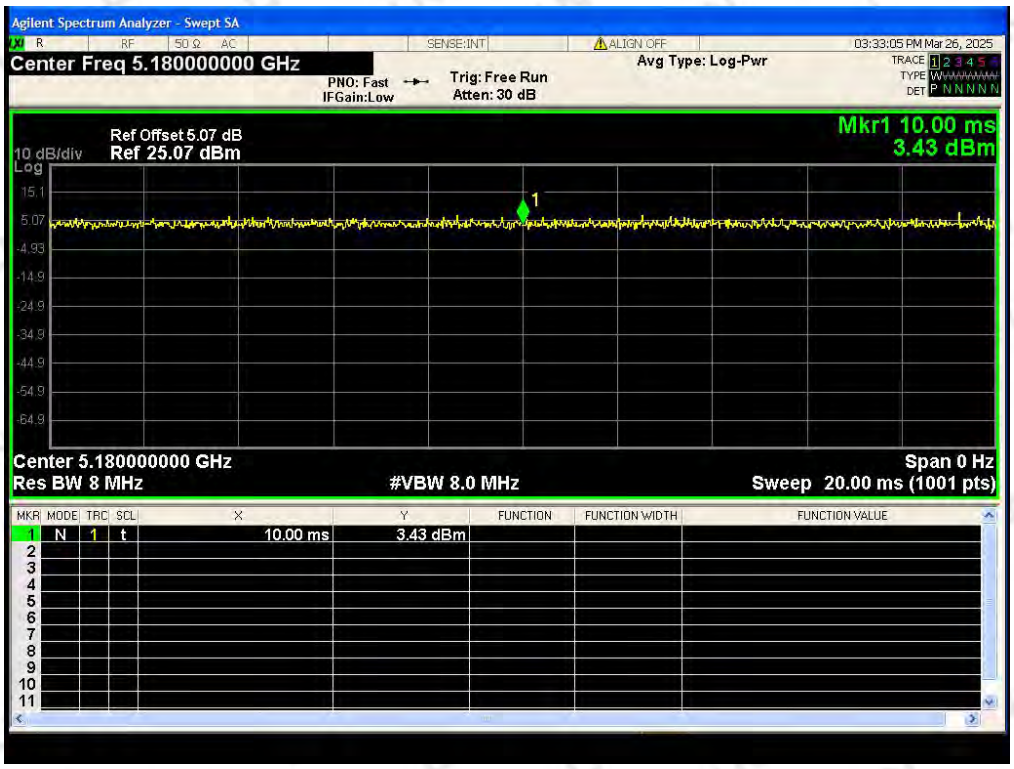
Duty Cycle NVNT 802.11ac40 5230MHz



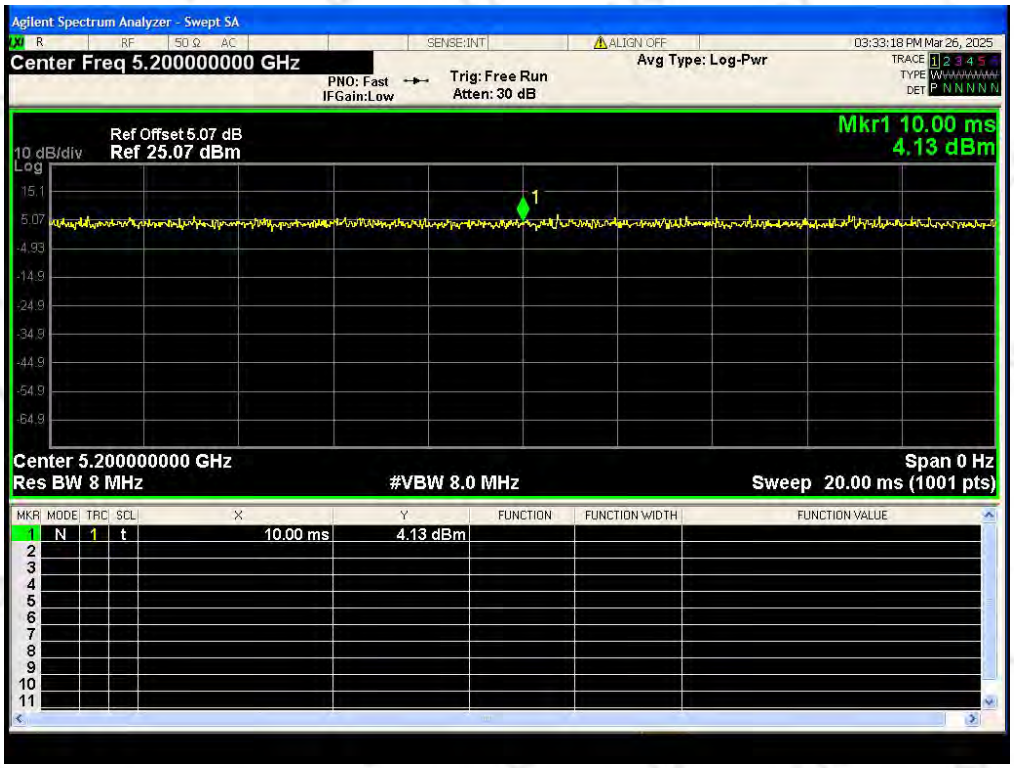
Duty Cycle NVNT 802.11ac80 5210MHz



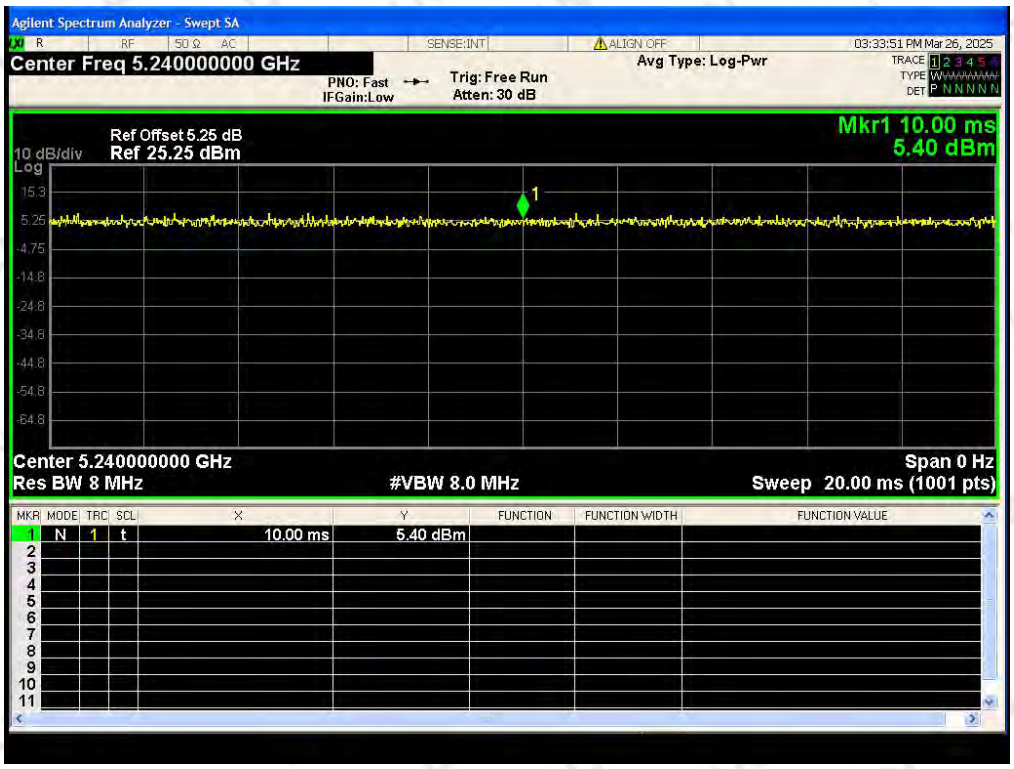
Duty Cycle NVNT 802.11n(HT20) 5180MHz



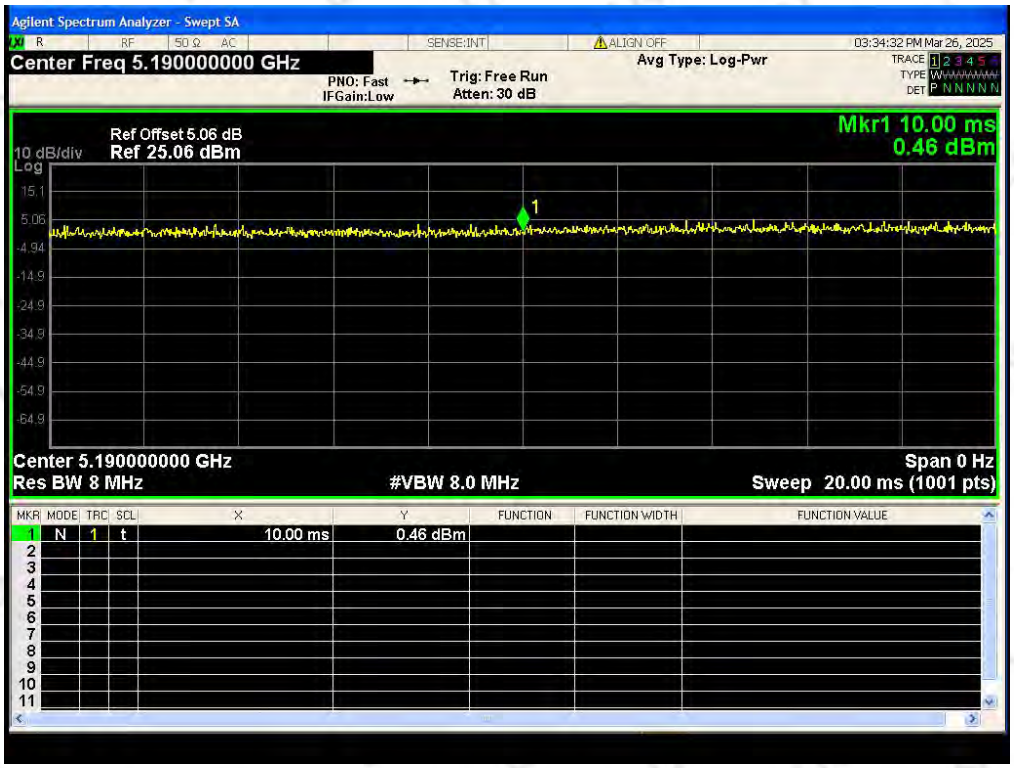
Duty Cycle NVNT 802.11n(HT20) 5200MHz



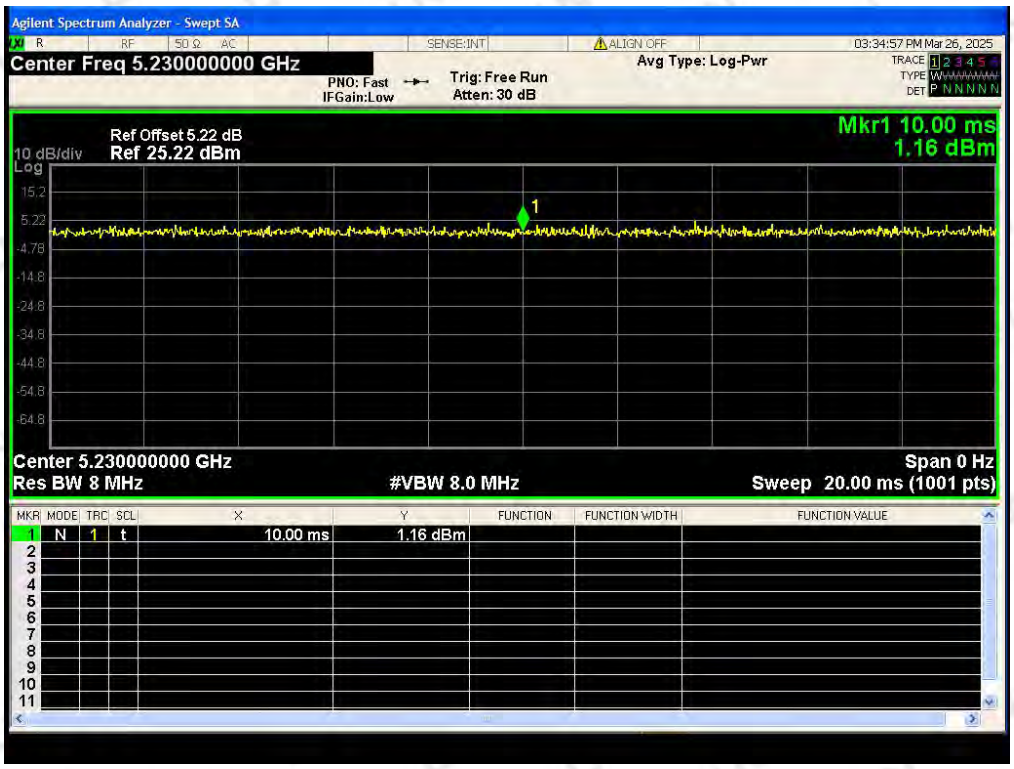
Duty Cycle NVNT 802.11n(HT20) 5240MHz



Duty Cycle NVNT 802.11n(HT40) 5190MHz



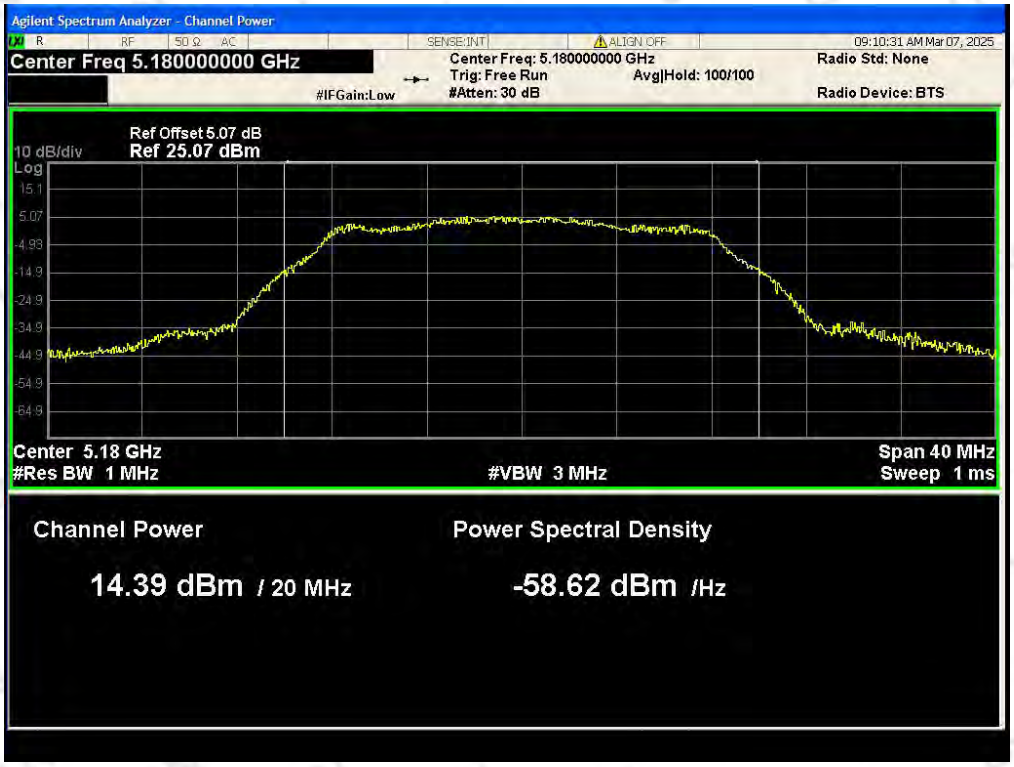
Duty Cycle NVNT 802.11n(HT40) 5230MHz



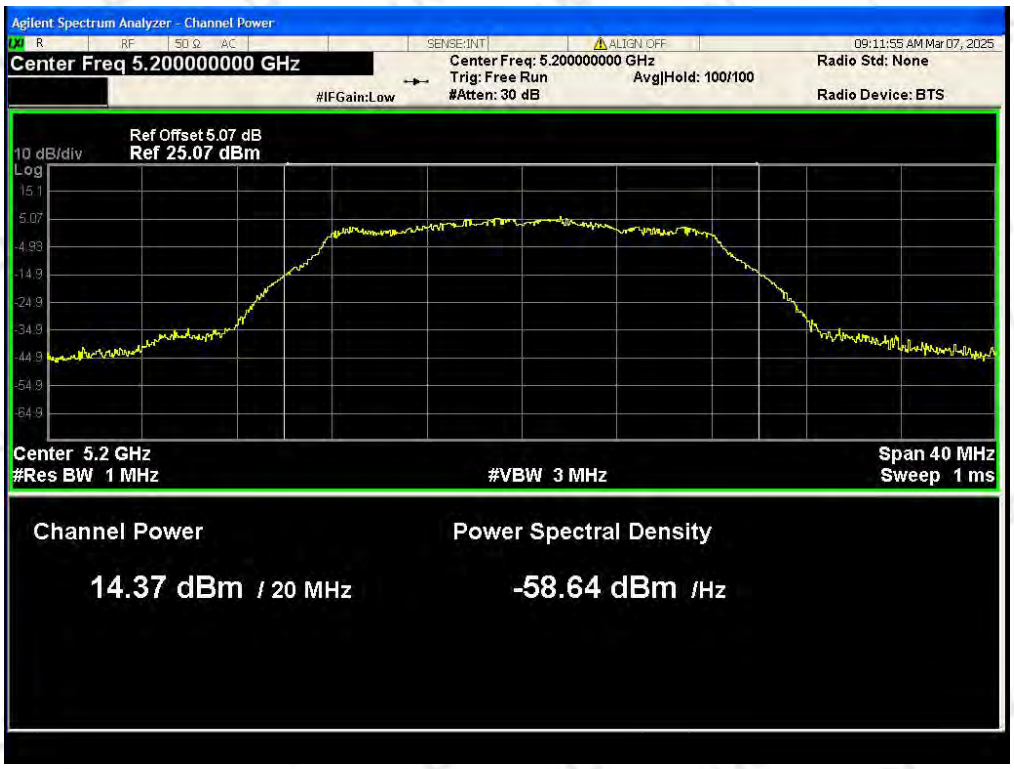
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 2	14.38	0	14.38	24	Pass
NVNT	802.11a	5200	Ant 2	14.37	0	14.37	24	Pass
NVNT	802.11a	5240	Ant 2	11.69	0	11.69	24	Pass
NVNT	802.11ac20	5180	Ant 2	13.97	0	13.97	24	Pass
NVNT	802.11ac20	5200	Ant 2	13.98	0	13.98	24	Pass
NVNT	802.11ac20	5240	Ant 2	13.64	0	13.64	24	Pass
NVNT	802.11ac40	5190	Ant 2	13.90	0	13.90	24	Pass
NVNT	802.11ac40	5230	Ant 2	14.01	0	14.01	24	Pass
NVNT	802.11ac80	5210	Ant 2	14.37	0	14.37	24	Pass
NVNT	802.11n(HT20)	5180	Ant 2	14.08	0	14.08	24	Pass
NVNT	802.11n(HT20)	5200	Ant 2	11.35	0	11.35	24	Pass
NVNT	802.11n(HT20)	5240	Ant 2	13.59	0	13.59	24	Pass
NVNT	802.11n(HT40)	5190	Ant 2	13.62	0	13.62	24	Pass
NVNT	802.11n(HT40)	5230	Ant 2	13.97	0	13.97	24	Pass

Power NVNT 802.11a 5180MHz Ant2

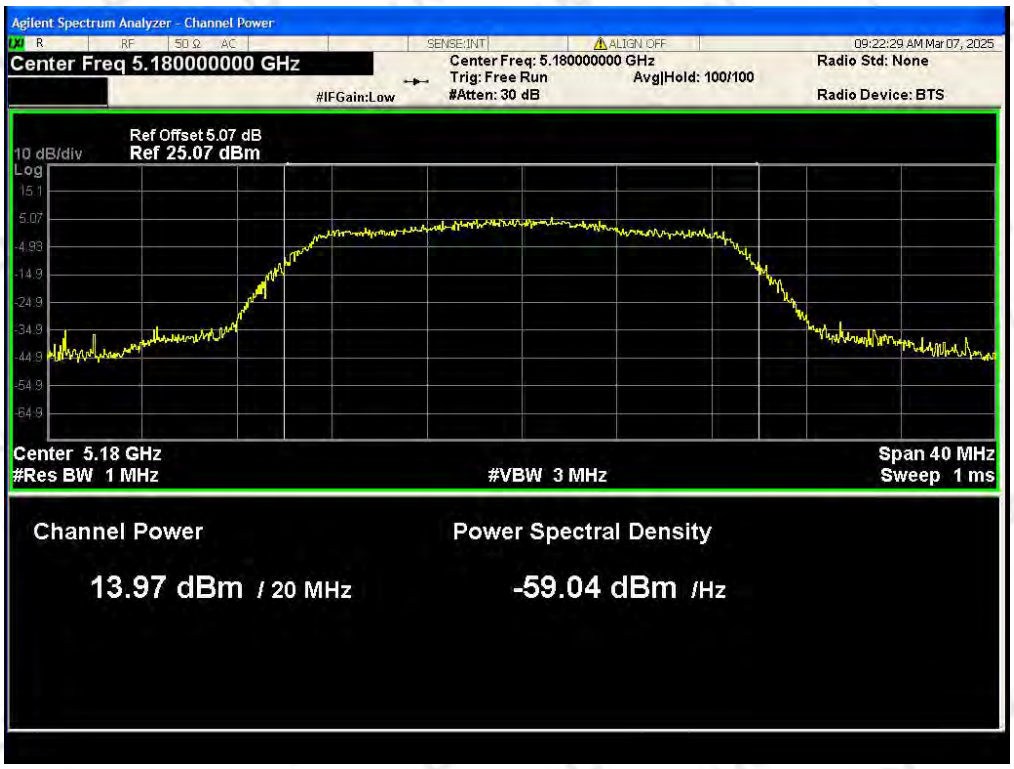


Power NVNT 802.11a 5200MHz Ant2

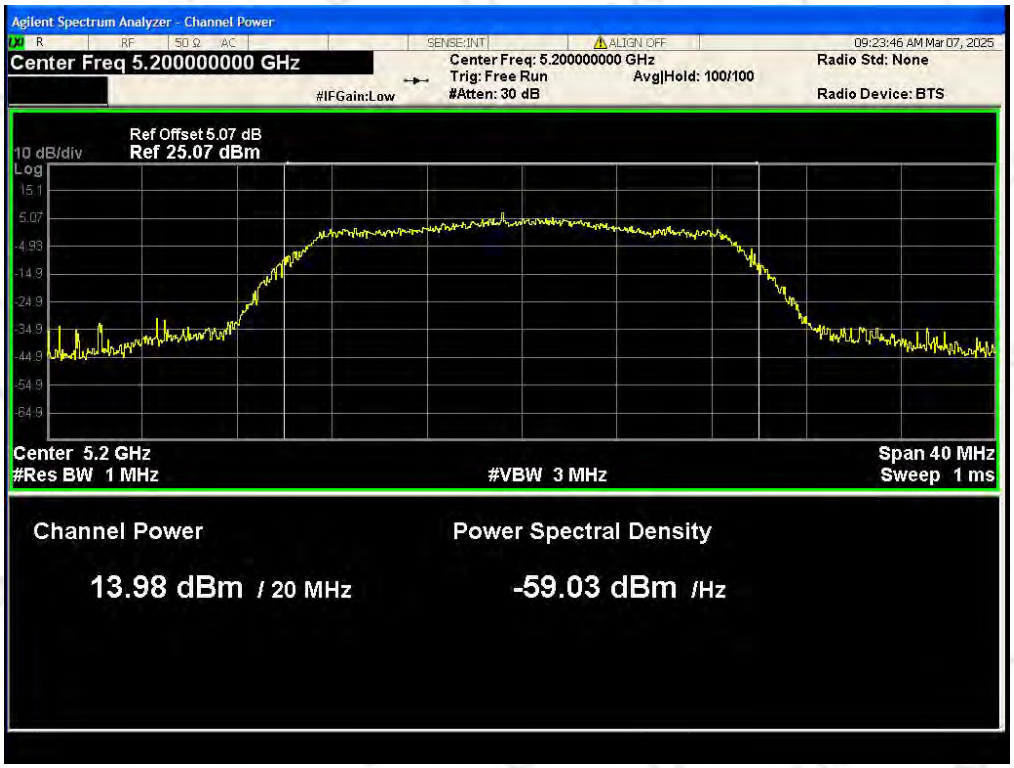


Power NVNT 802.11a 5240MHz Ant2

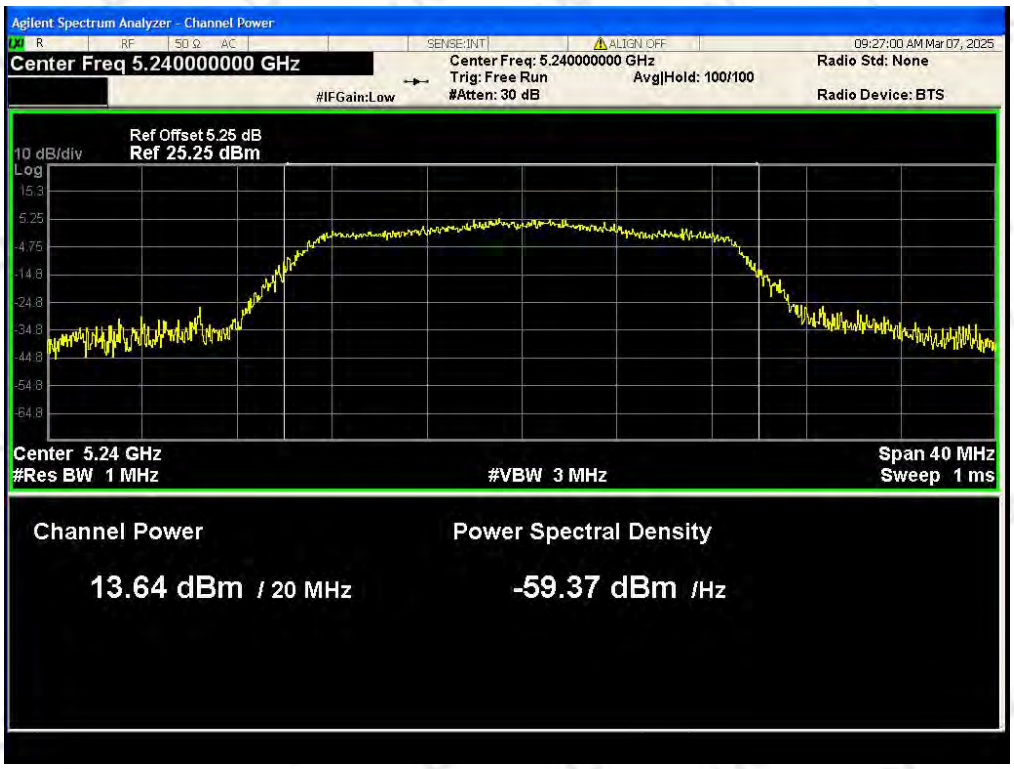
Power NVNT 802.11ac20 5180MHz Ant2



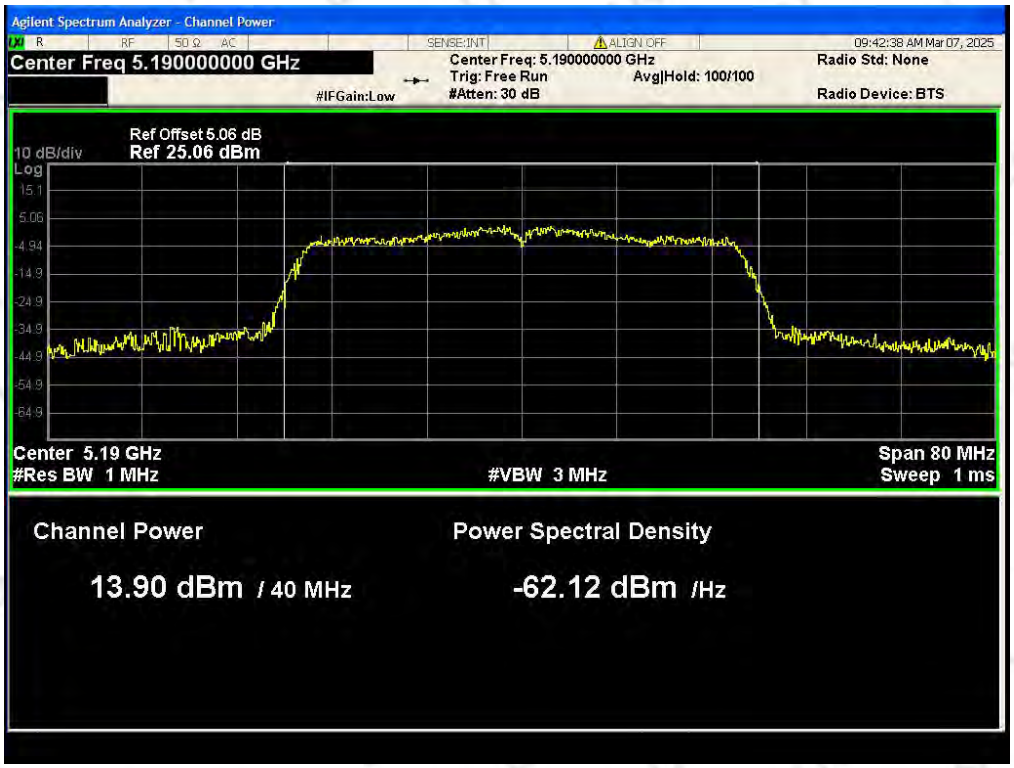
Power NVNT 802.11ac20 5200MHz Ant2



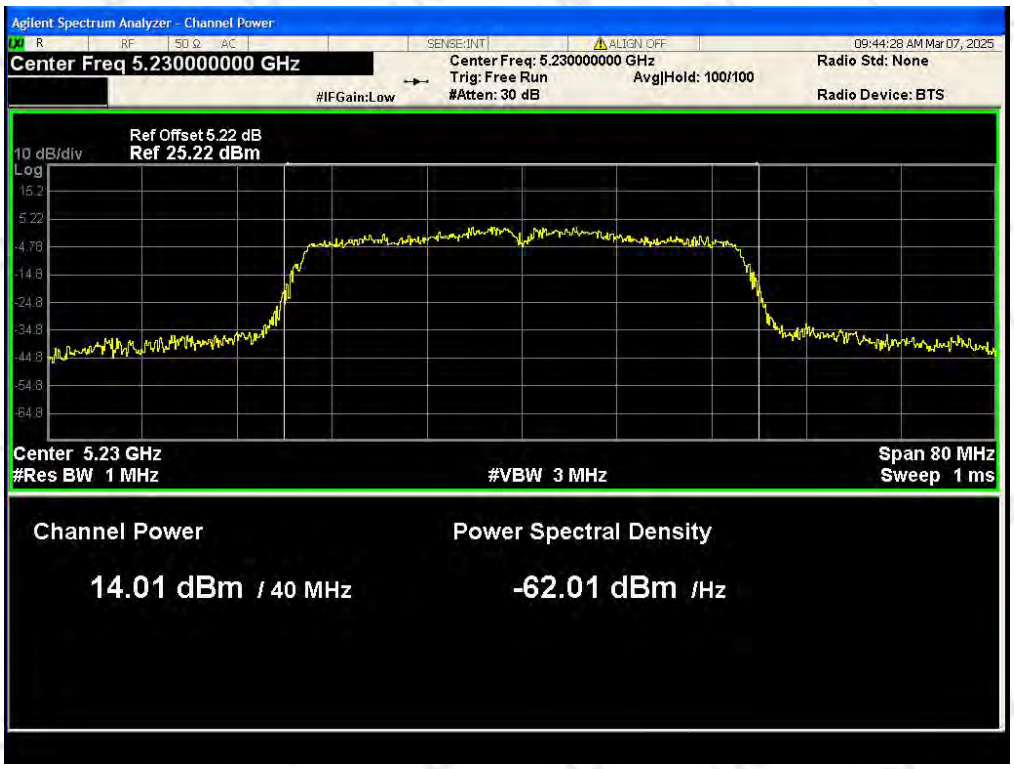
Power NVNT 802.11ac20 5240MHz Ant2



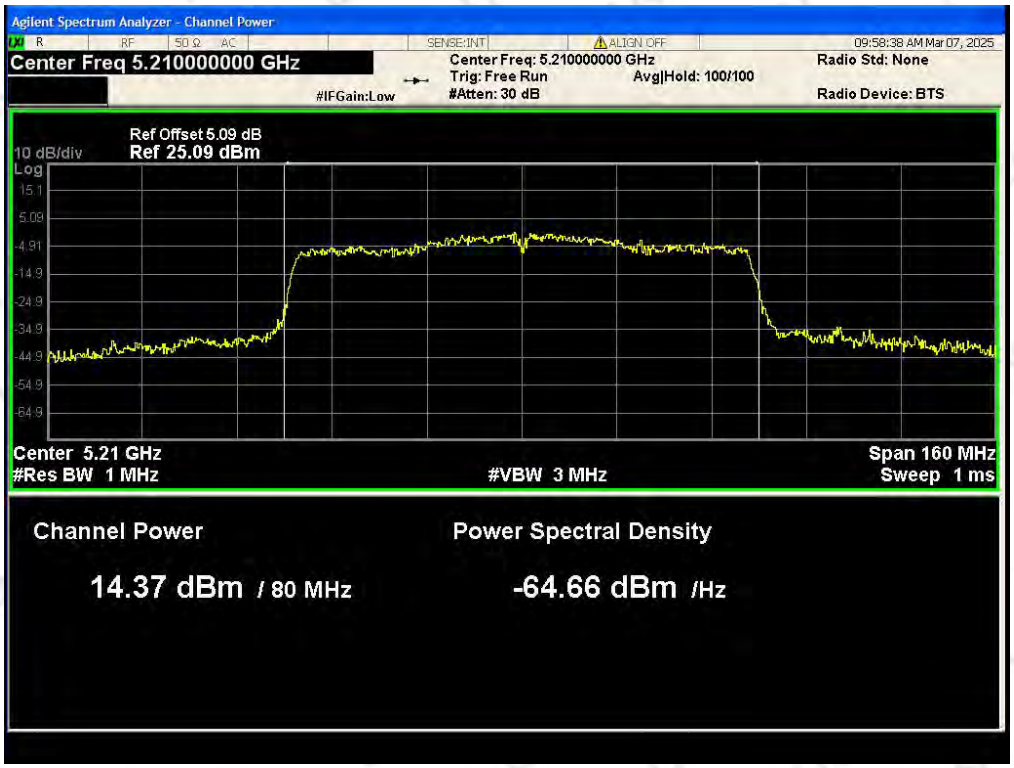
Power NVNT 802.11ac40 5190MHz Ant2



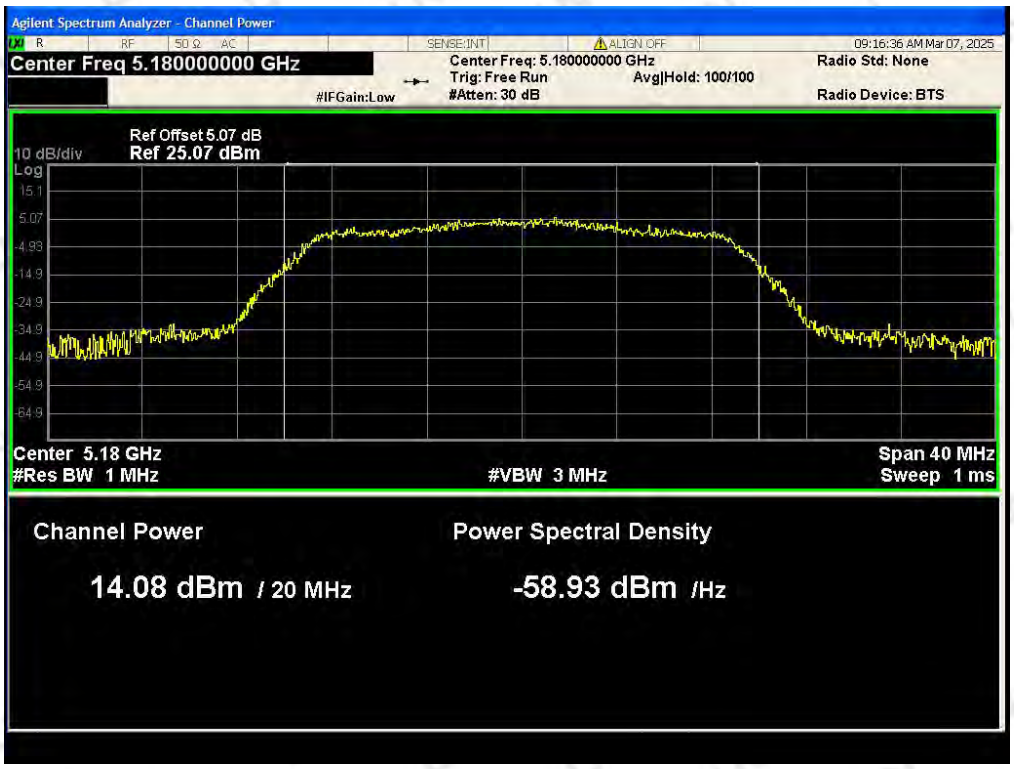
Power NVNT 802.11ac40 5230MHz Ant2



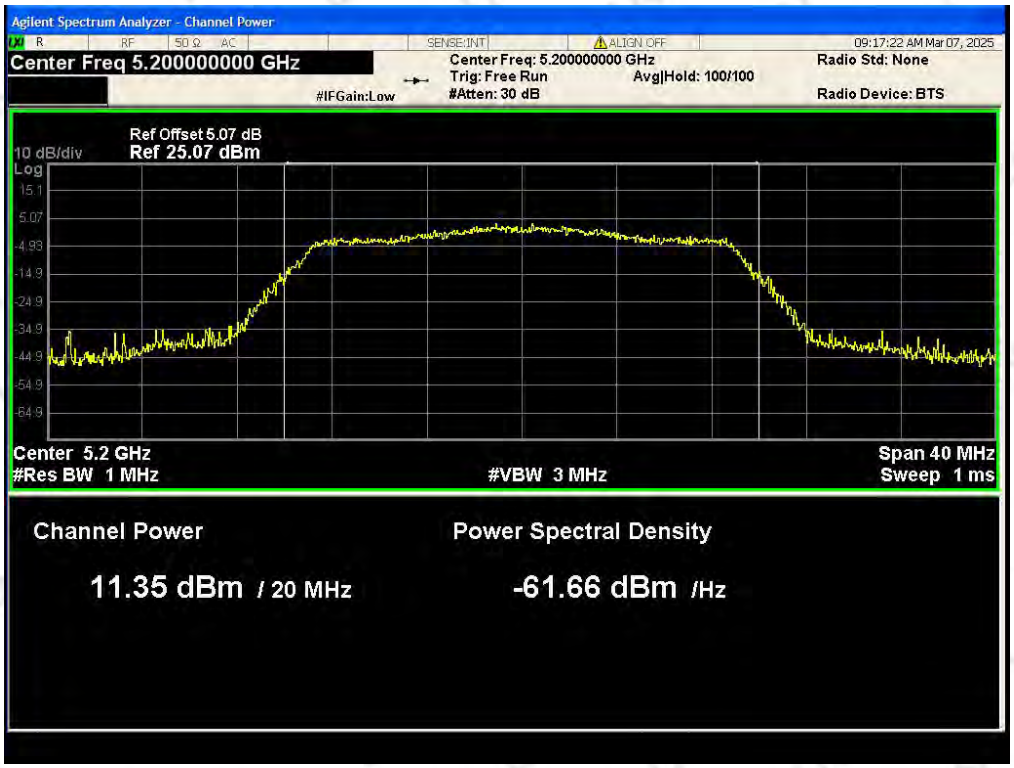
Power NVNT 802.11ac80 5210MHz Ant2



Power NVNT 802.11n(HT20) 5180MHz Ant2

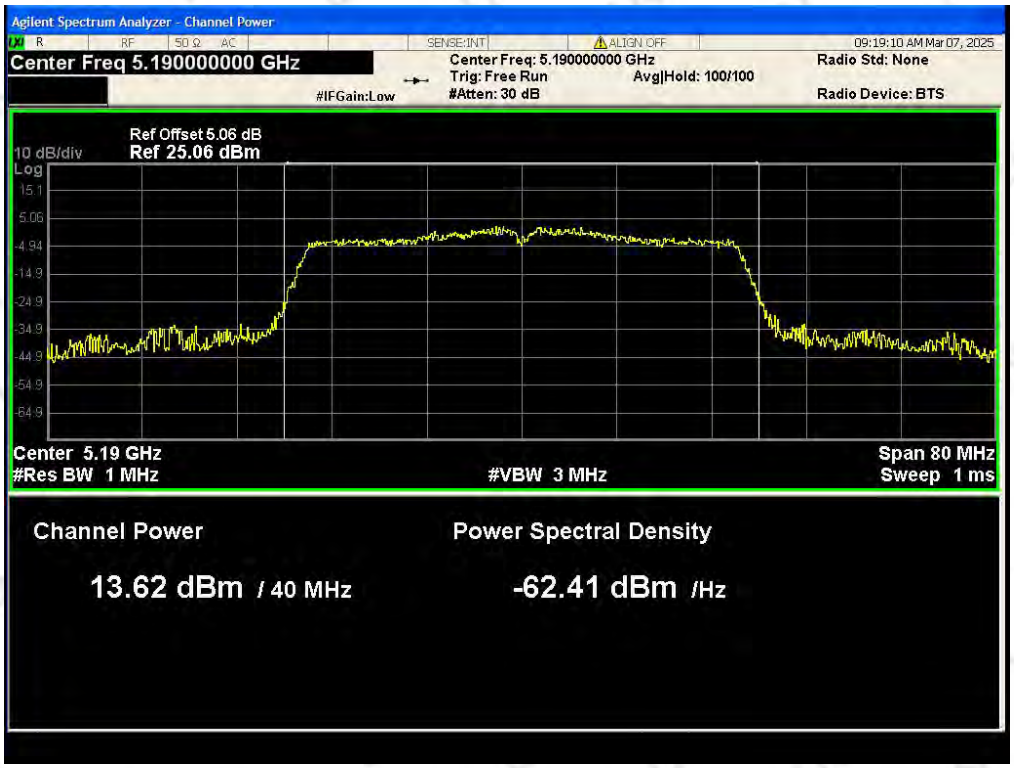


Power NVNT 802.11n(HT20) 5200MHz Ant2

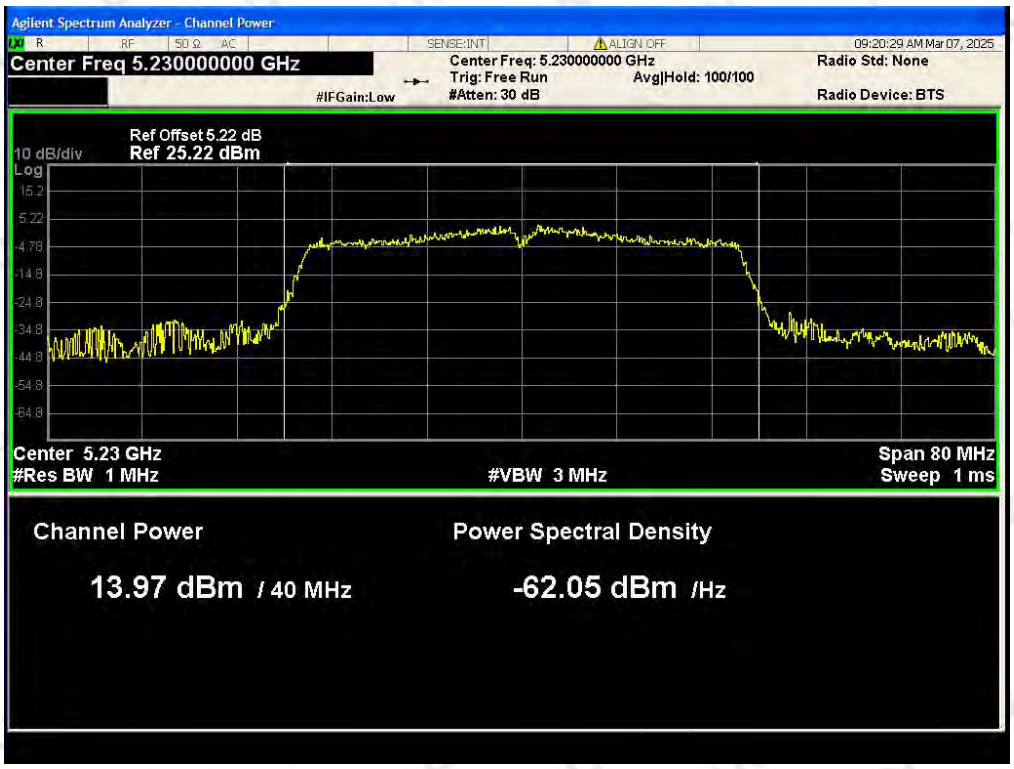


Power NVNT 802.11n(HT20) 5240MHz Ant2

Power NVNT 802.11n(HT40) 5190MHz Ant2



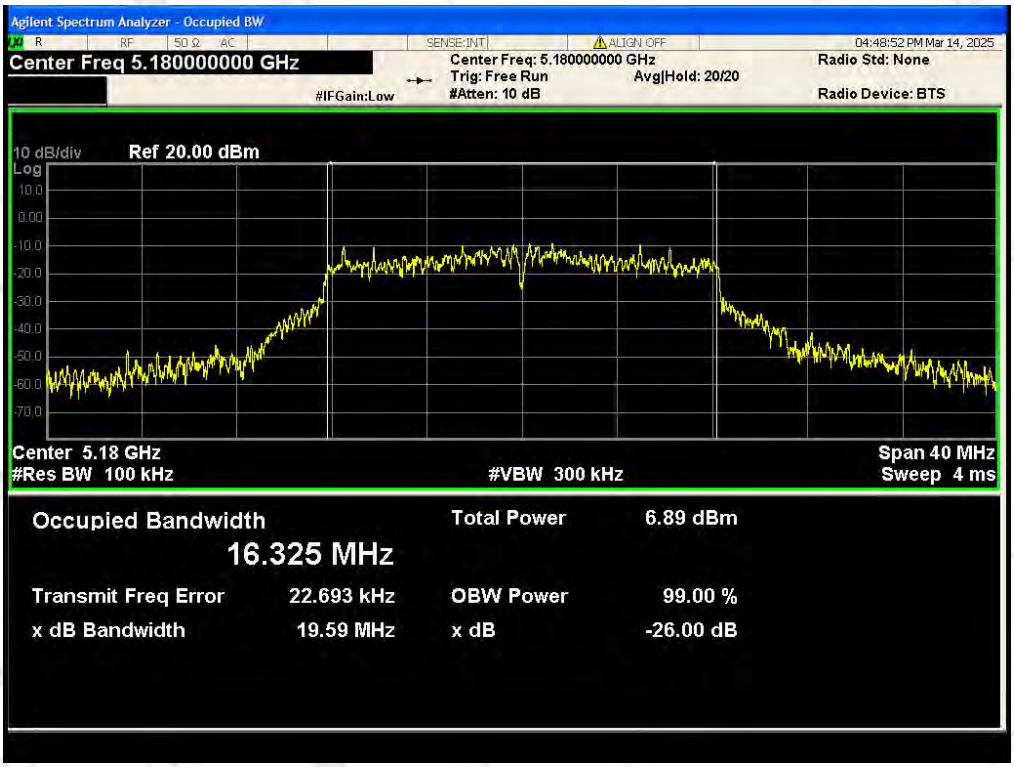
Power NVNT 802.11n(HT40) 5230MHz Ant2



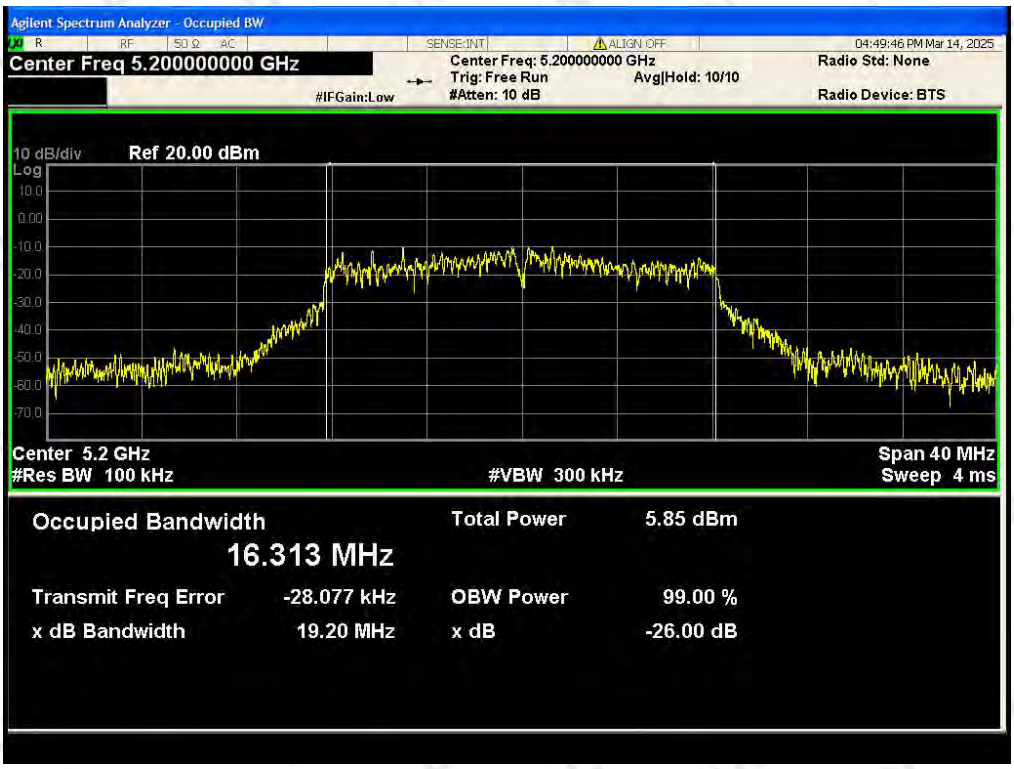
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5180	Ant 2	16.325	19.59	N/A	Pass
NVNT	802.11a	5200	Ant 2	16.313	19.20	N/A	Pass
NVNT	802.11a	5240	Ant 2	16.226	19.82	N/A	Pass
NVNT	802.11ac20	5180	Ant 2	17.572	20.18	N/A	Pass
NVNT	802.11ac20	5200	Ant 2	17.534	20.29	N/A	Pass
NVNT	802.11ac20	5240	Ant 2	17.541	20.38	N/A	Pass
NVNT	802.11ac40	5190	Ant 2	35.959	38.45	N/A	Pass
NVNT	802.11ac40	5230	Ant 2	36.017	38.40	N/A	Pass
NVNT	802.11ac80	5210	Ant 2	75.132	77.83	N/A	Pass
NVNT	802.11n(HT20)	5180	Ant 2	17.546	20.64	N/A	Pass
NVNT	802.11n(HT20)	5200	Ant 2	17.561	20.01	N/A	Pass
NVNT	802.11n(HT20)	5240	Ant 2	17.562	19.73	N/A	Pass
NVNT	802.11n(HT40)	5190	Ant 2	35.912	37.99	N/A	Pass
NVNT	802.11n(HT40)	5230	Ant 2	35.947	37.94	N/A	Pass

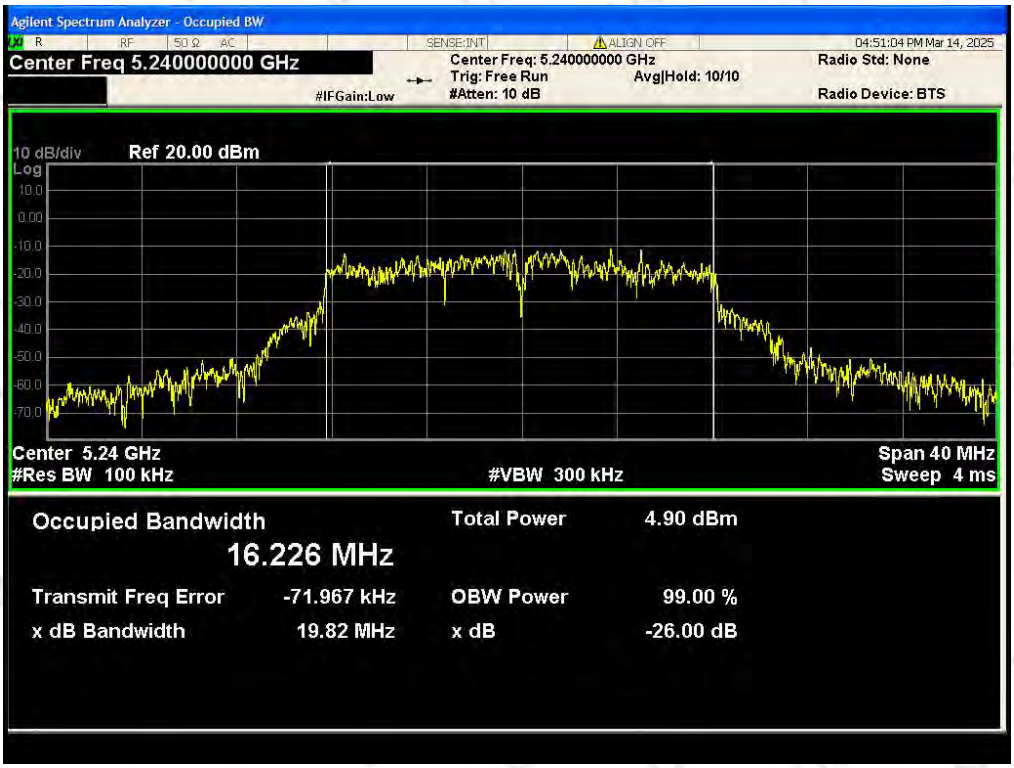
OBW NVNT 802.11a 5180MHz Ant2



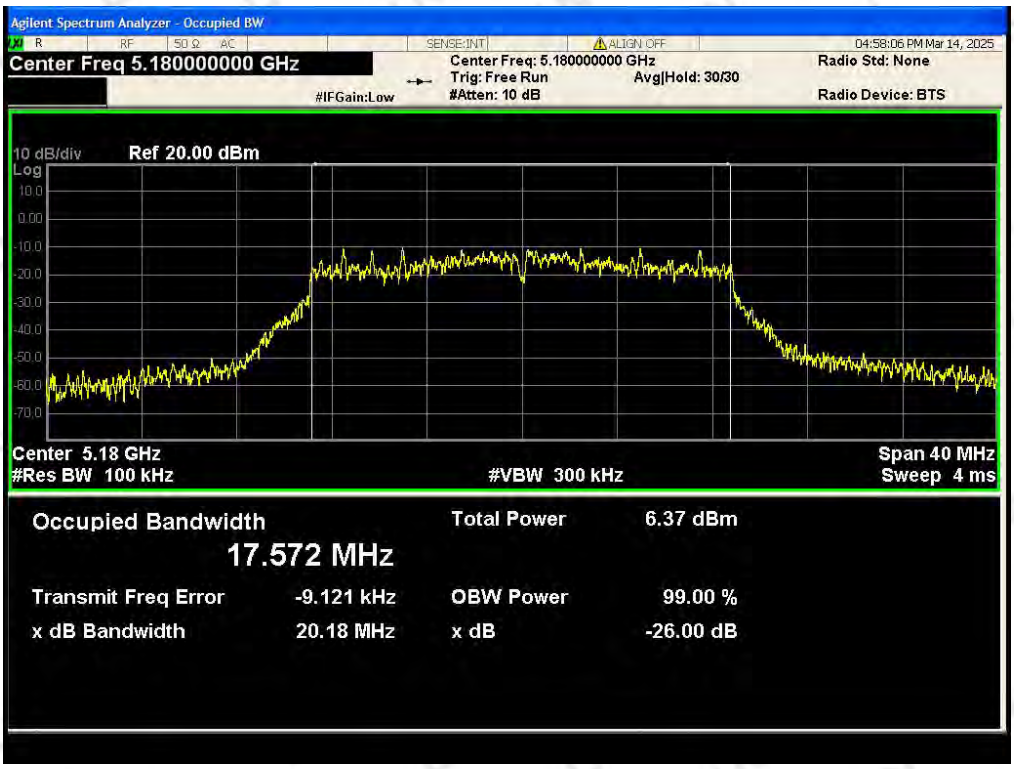
OBW NVNT 802.11a 5200MHz Ant2



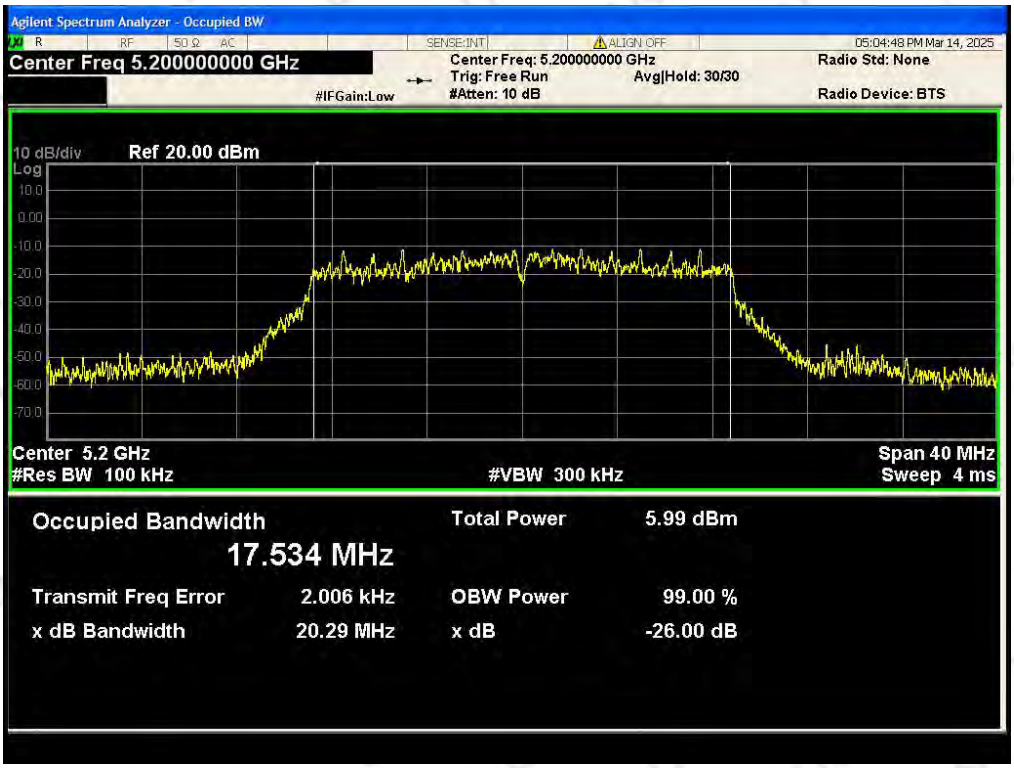
OBW NVNT 802.11a 5240MHz Ant2



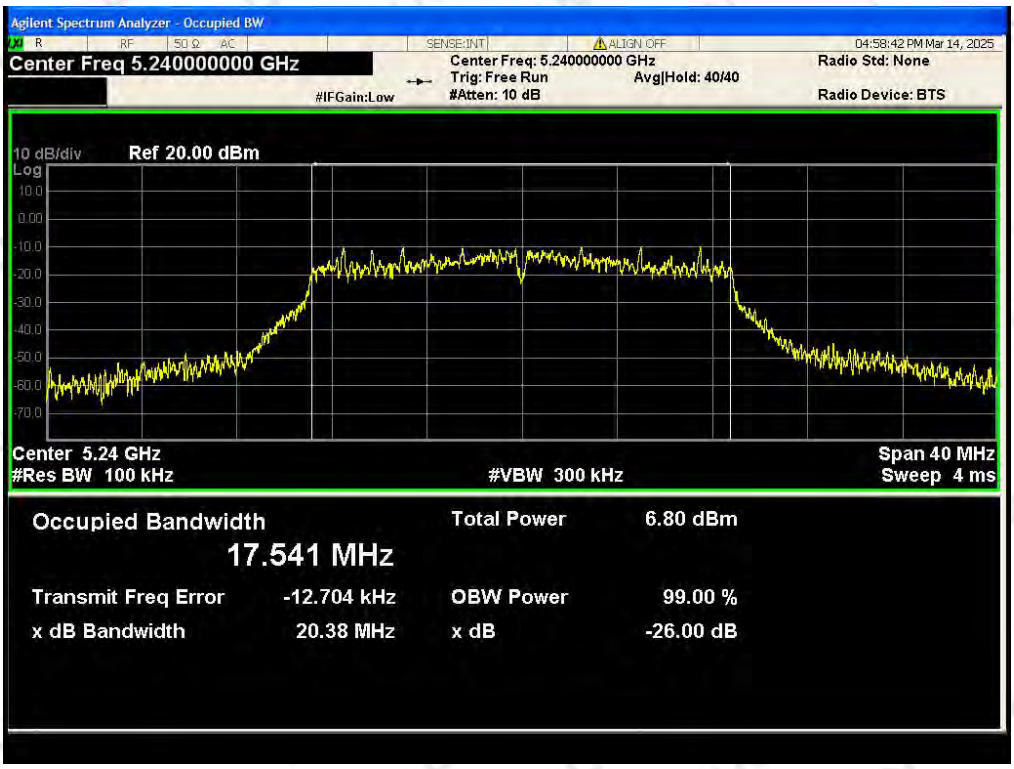
OBW NVNT 802.11ac20 5180MHz Ant2



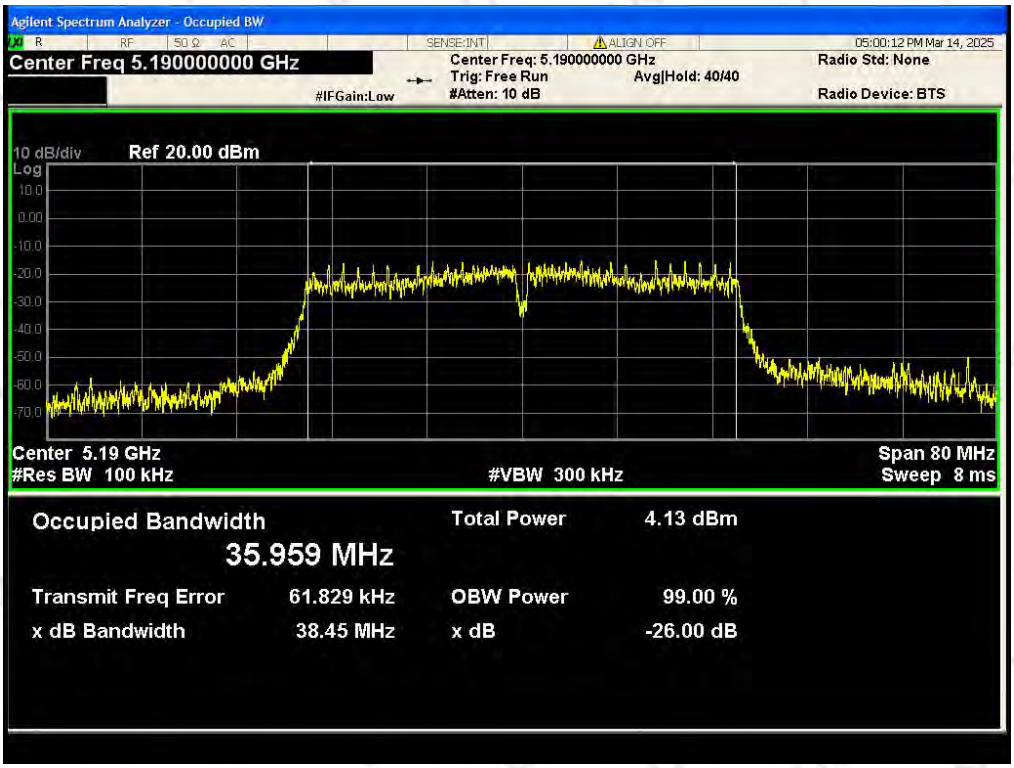
OBW NVNT 802.11ac20 5200MHz Ant2



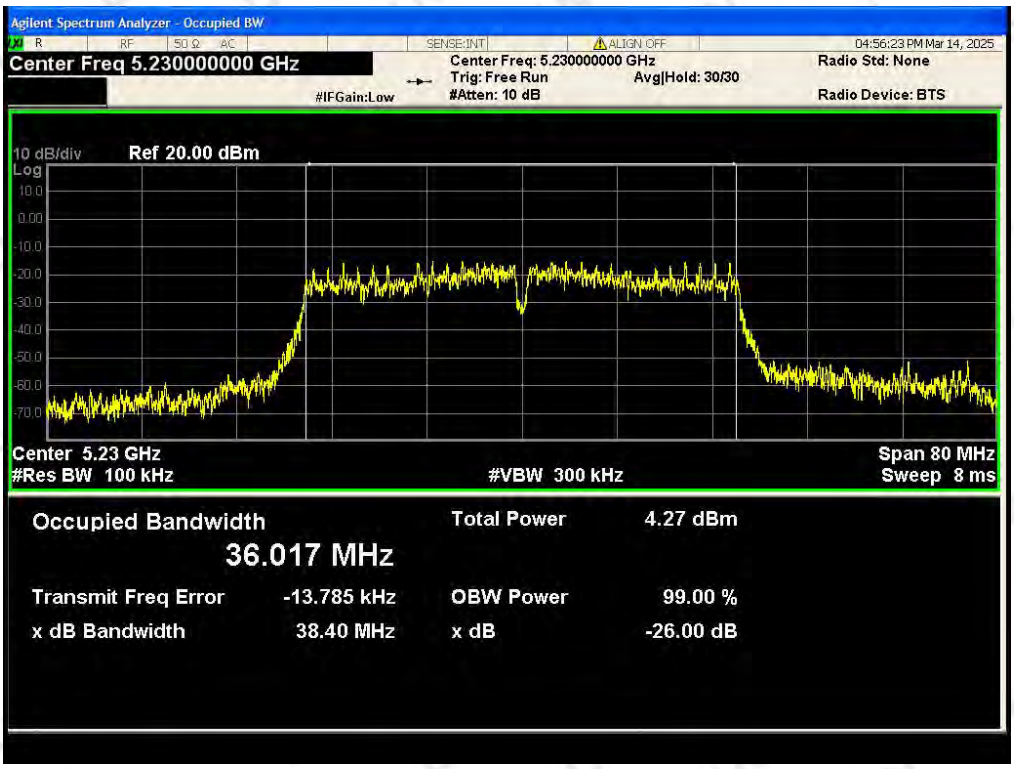
OBW NVNT 802.11ac20 5240MHz Ant2



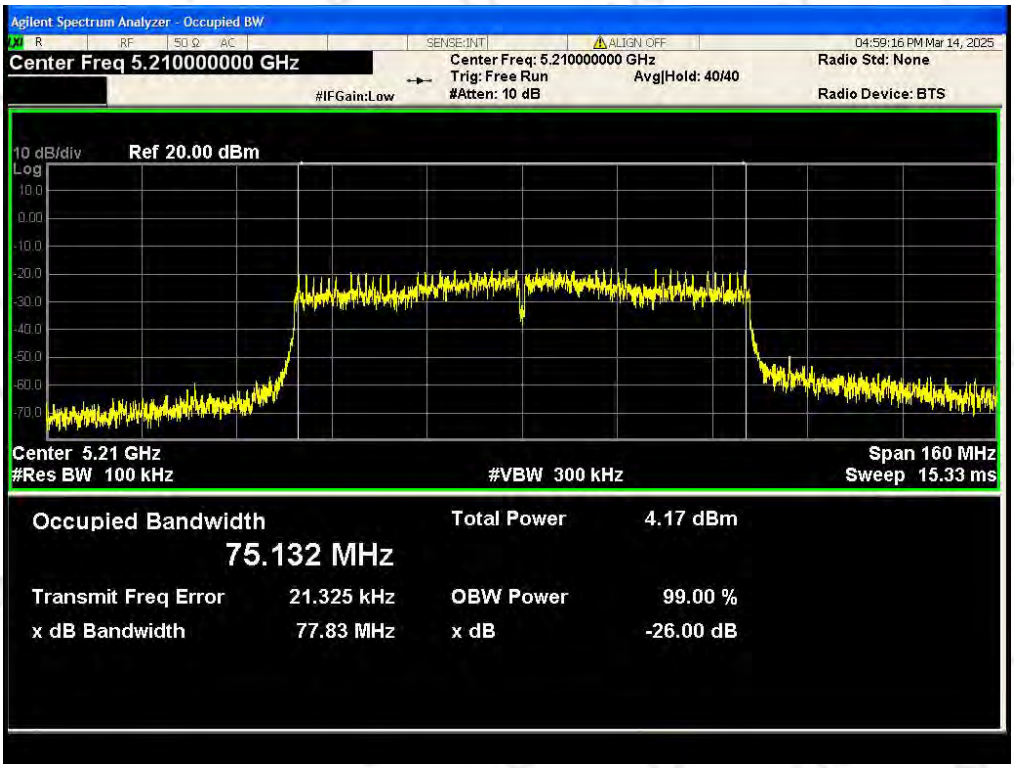
OBW NVNT 802.11ac40 5190MHz Ant2



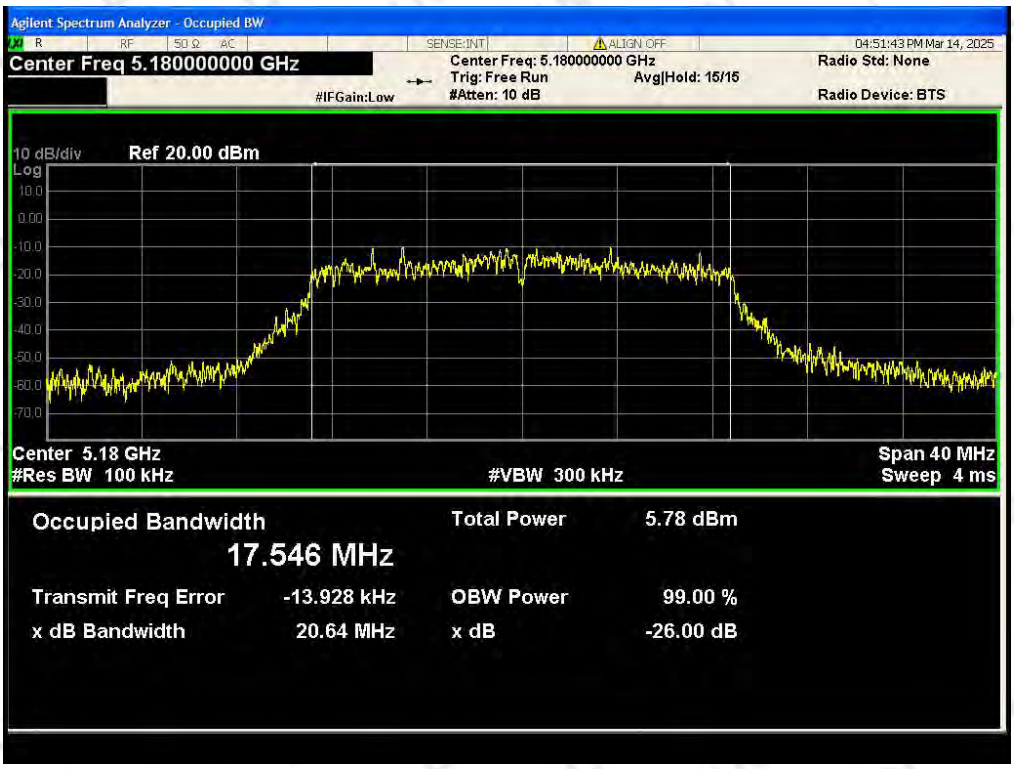
OBW NVNT 802.11ac40 5230MHz Ant2



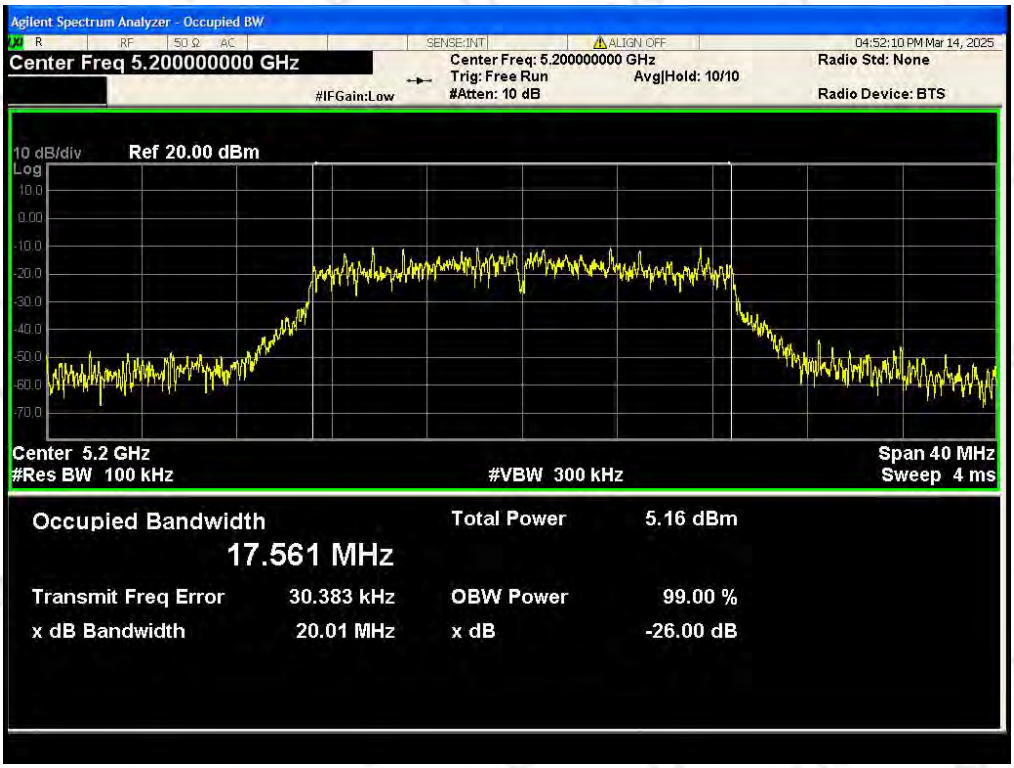
OBW NVNT 802.11ac80 5210MHz Ant2



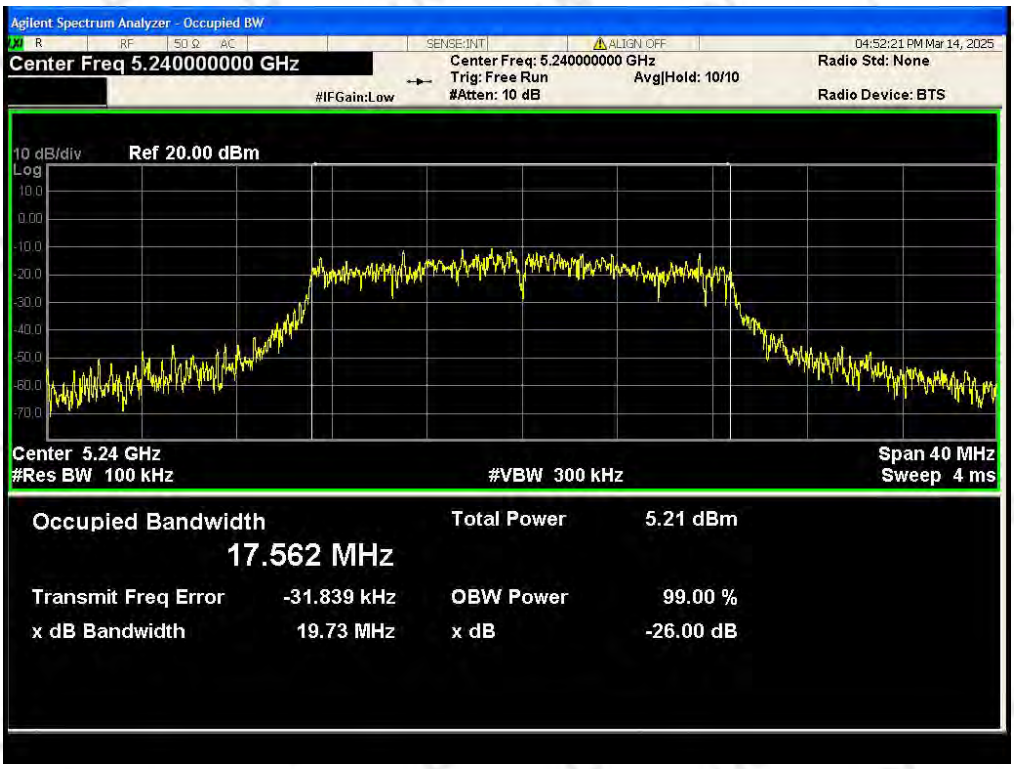
OBW NVNT 802.11n(HT20) 5180MHz Ant2



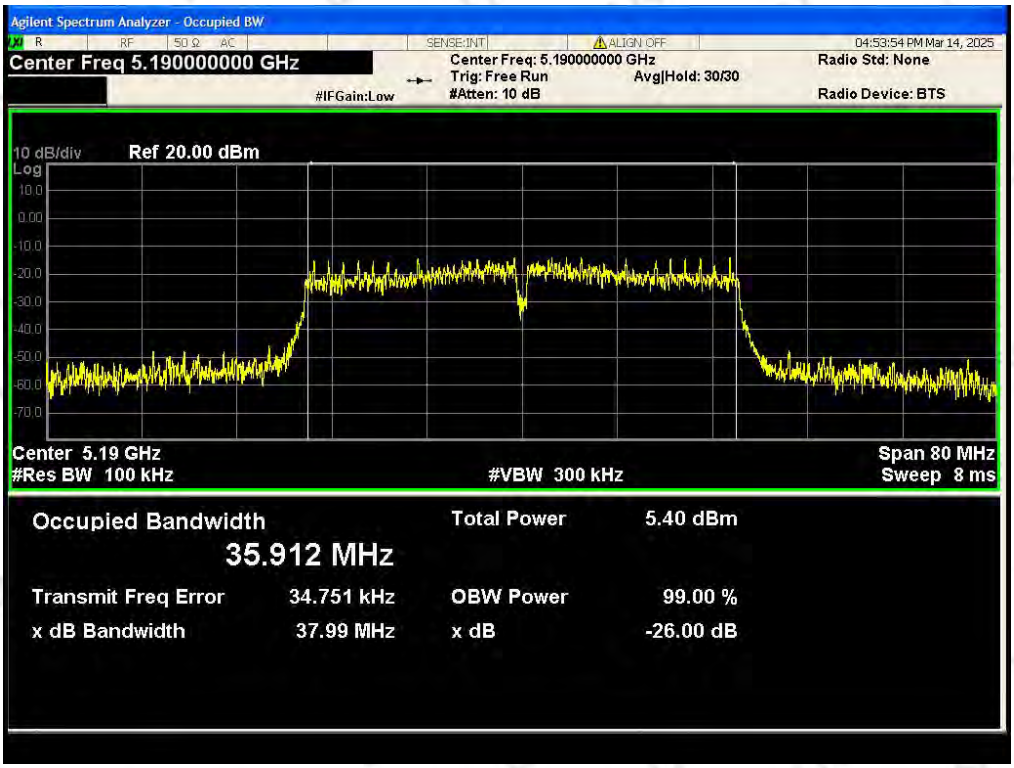
OBW NVNT 802.11n(HT20) 5200MHz Ant2



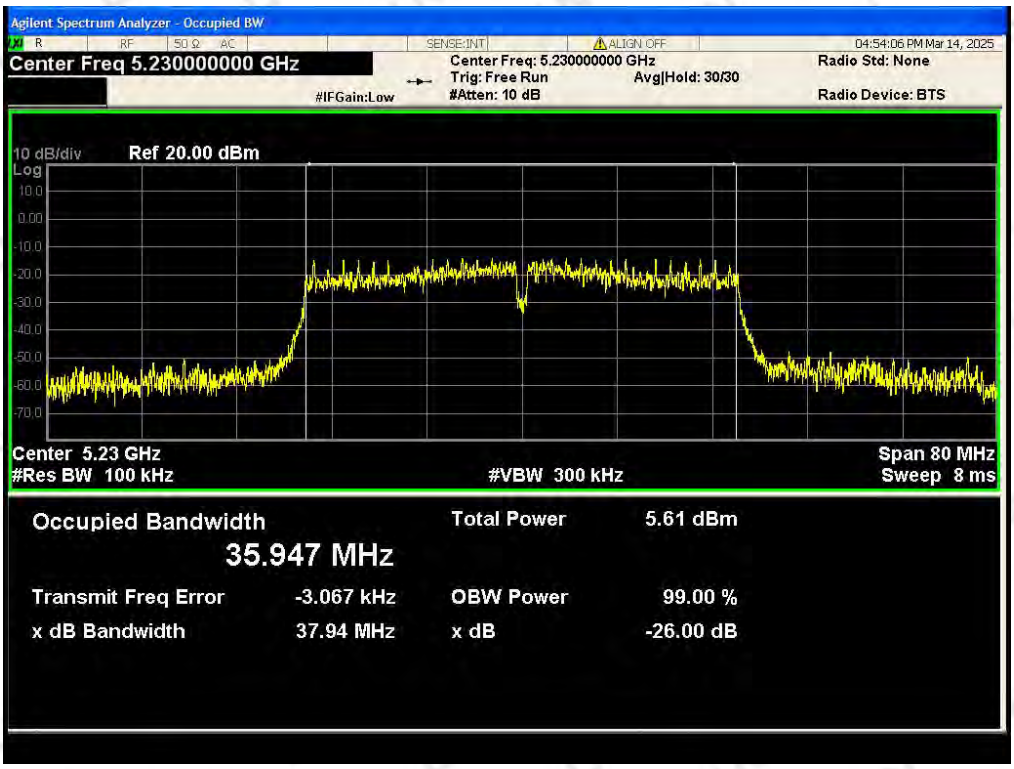
OBW NVNT 802.11n(HT20) 5240MHz Ant2



OBW NVNT 802.11n(HT40) 5190MHz Ant2



OBW NVNT 802.11n(HT40) 5230MHz Ant2



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 2	5.664	0	5.664	11	Pass
NVNT	802.11a	5200	Ant 2	5.537	0	5.537	11	Pass
NVNT	802.11a	5240	Ant 2	5.086	0	5.086	11	Pass
NVNT	802.11ac20	5180	Ant 2	5.394	0	5.394	11	Pass
NVNT	802.11ac20	5200	Ant 2	6.012	0	6.012	11	Pass
NVNT	802.11ac20	5240	Ant 2	7.483	0	7.483	11	Pass
NVNT	802.11ac40	5190	Ant 2	3.42	0	3.42	11	Pass
NVNT	802.11ac40	5230	Ant 2	3.063	0	3.063	11	Pass
NVNT	802.11ac80	5210	Ant 2	-0.203	0	-0.203	11	Pass
NVNT	802.11n(HT20)	5180	Ant 2	5.919	0	5.919	11	Pass
NVNT	802.11n(HT20)	5200	Ant 2	5.434	0	5.434	11	Pass
NVNT	802.11n(HT20)	5240	Ant 2	4.725	0	4.725	11	Pass
NVNT	802.11n(HT40)	5190	Ant 2	2.033	0	2.033	11	Pass
NVNT	802.11n(HT40)	5230	Ant 2	3.197	0	3.197	11	Pass

PSD NVNT 802.11a 5180MHz Ant2

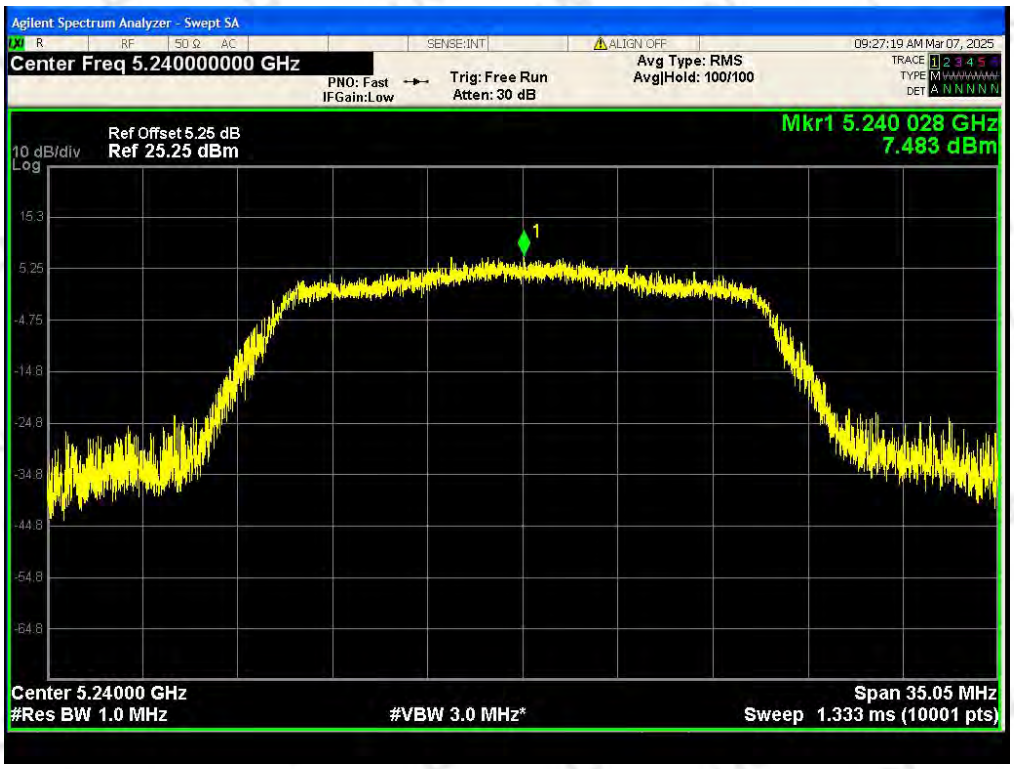
PSD NVNT 802.11a 5200MHz Ant2

PSD NVNT 802.11a 5240MHz Ant2

PSD NVNT 802.11ac20 5180MHz Ant2

PSD NVNT 802.11ac20 5200MHz Ant2

PSD NVNT 802.11ac20 5240MHz Ant2



PSD NVNT 802.11ac40 5190MHz Ant2

PSD NVNT 802.11ac40 5230MHz Ant2

PSD NVNT 802.11ac80 5210MHz Ant2

PSD NVNT 802.11n(HT20) 5180MHz Ant2

PSD NVNT 802.11n(HT20) 5200MHz Ant2

PSD NVNT 802.11n(HT20) 5240MHz Ant2

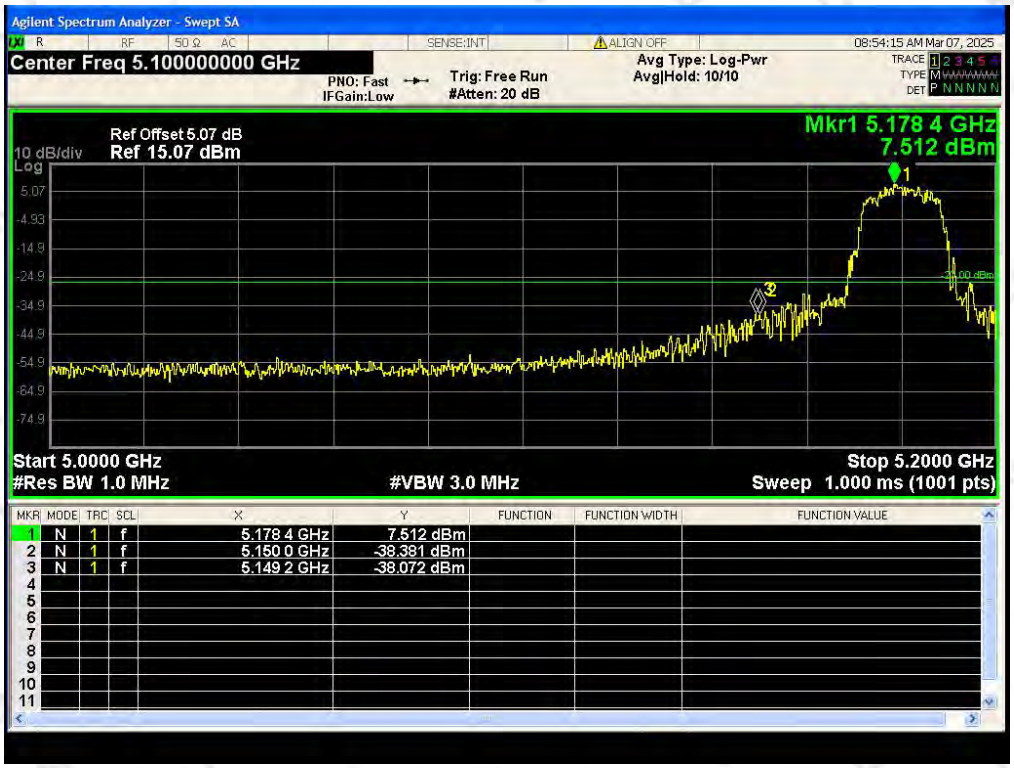
PSD NVNT 802.11n(HT40) 5190MHz Ant2

PSD NVNT 802.11n(HT40) 5230MHz Ant2

Band Edge

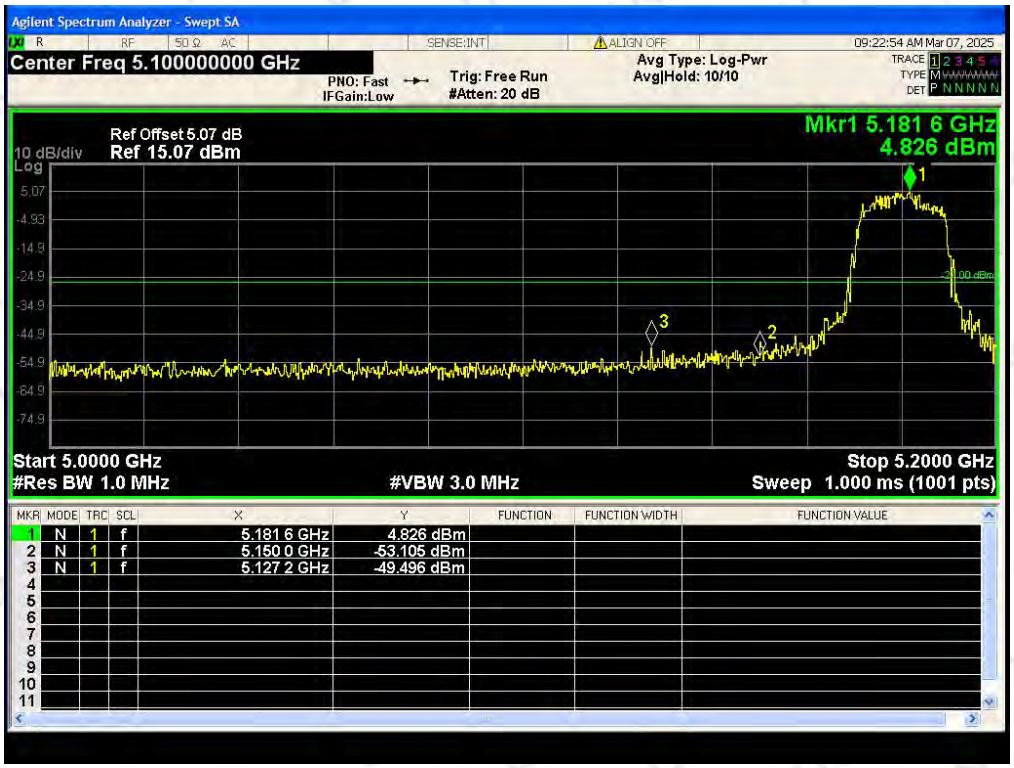
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 2	-38.07	-27	Pass
NVNT	802.11a	5240	Ant 2	-51.61	-27	Pass
NVNT	802.11ac20	5180	Ant 2	-49.49	-27	Pass
NVNT	802.11ac20	5240	Ant 2	-52.3	-27	Pass
NVNT	802.11ac40	5190	Ant 2	-39.45	-27	Pass
NVNT	802.11ac40	5230	Ant 2	-52.09	-27	Pass
NVNT	802.11ac80	5210	Ant 2	-40.94	-27	Pass
NVNT	802.11n(HT20)	5180	Ant 2	-32.7	-27	Pass
NVNT	802.11n(HT20)	5240	Ant 2	-52.4	-27	Pass
NVNT	802.11n(HT40)	5190	Ant 2	-46.17	-27	Pass
NVNT	802.11n(HT40)	5230	Ant 2	-51.12	-27	Pass

Band Edge NVNT 802.11a 5180MHz Ant2

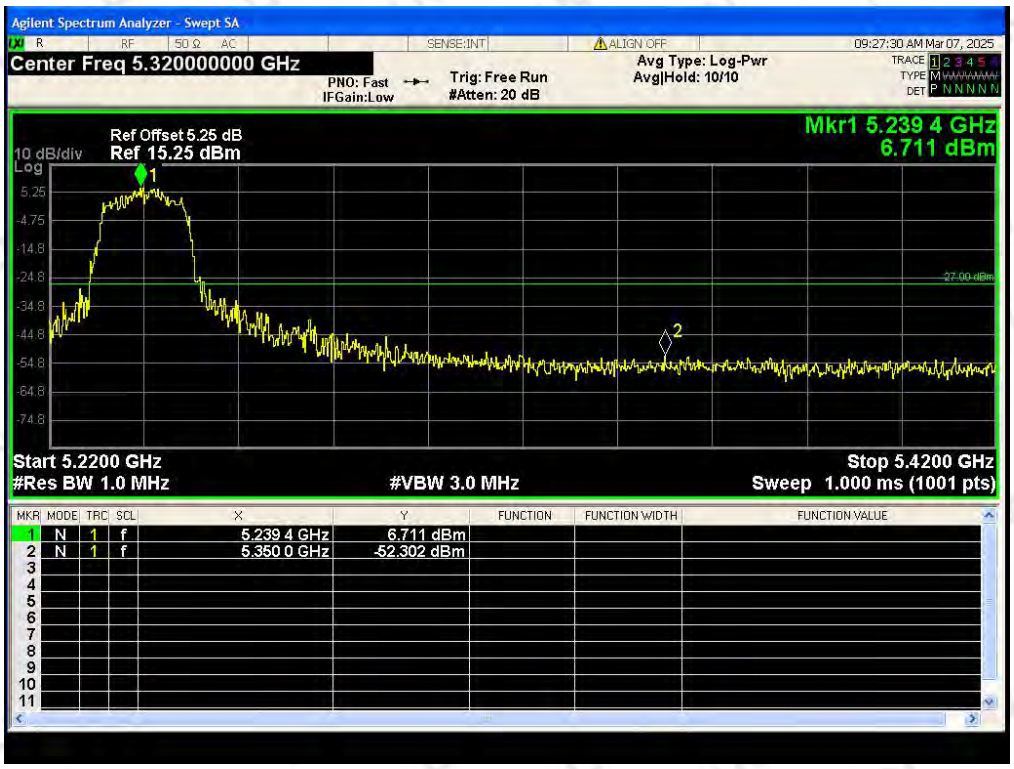


Band Edge NVNT 802.11a 5240MHz Ant2

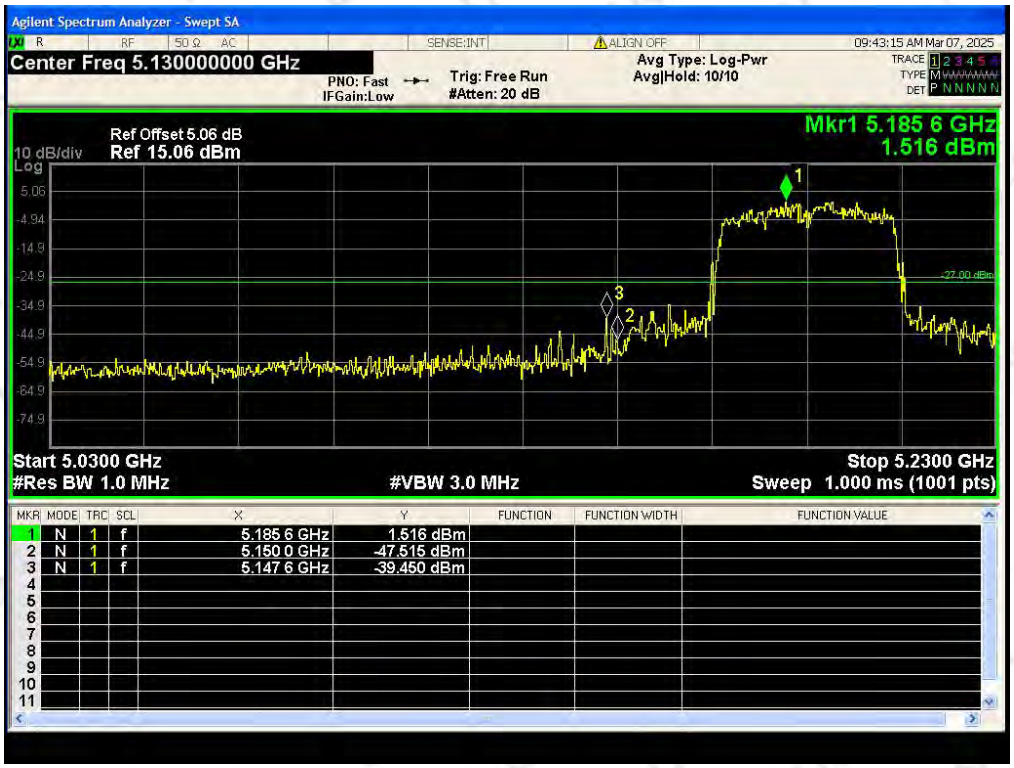
Band Edge NVNT 802.11ac20 5180MHz Ant2



Band Edge NVNT 802.11ac20 5240MHz Ant2



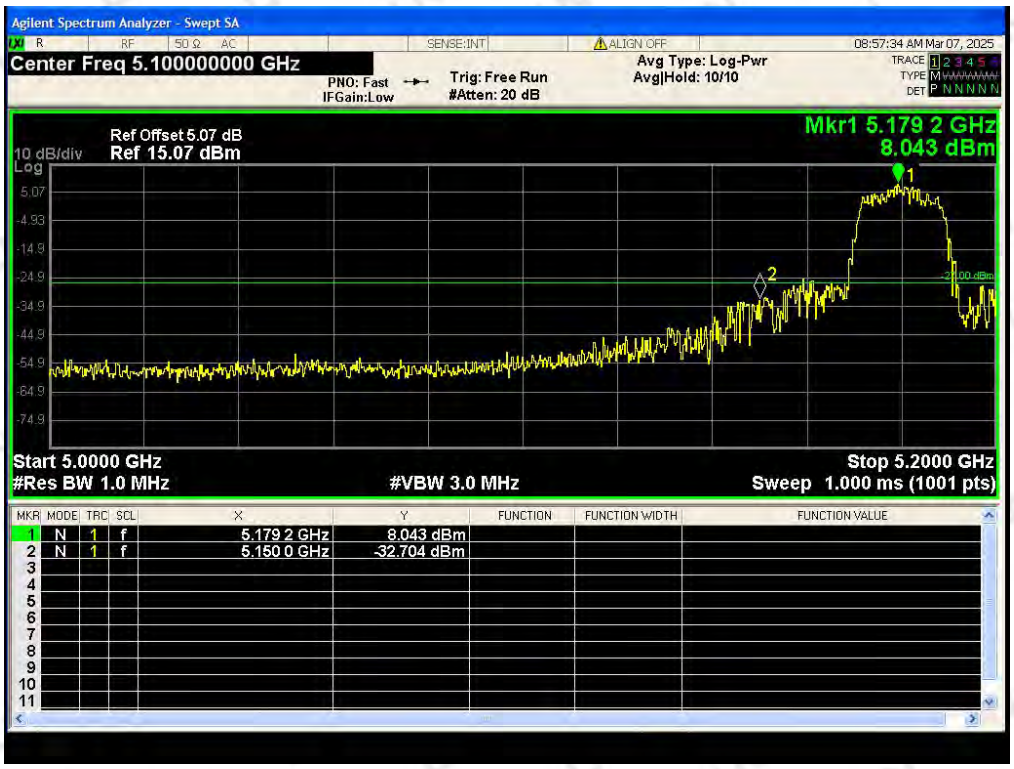
Band Edge NVNT 802.11ac40 5190MHz Ant2



Band Edge NVNT 802.11ac40 5230MHz Ant2

Band Edge NVNT 802.11ac80 5210MHz Ant2

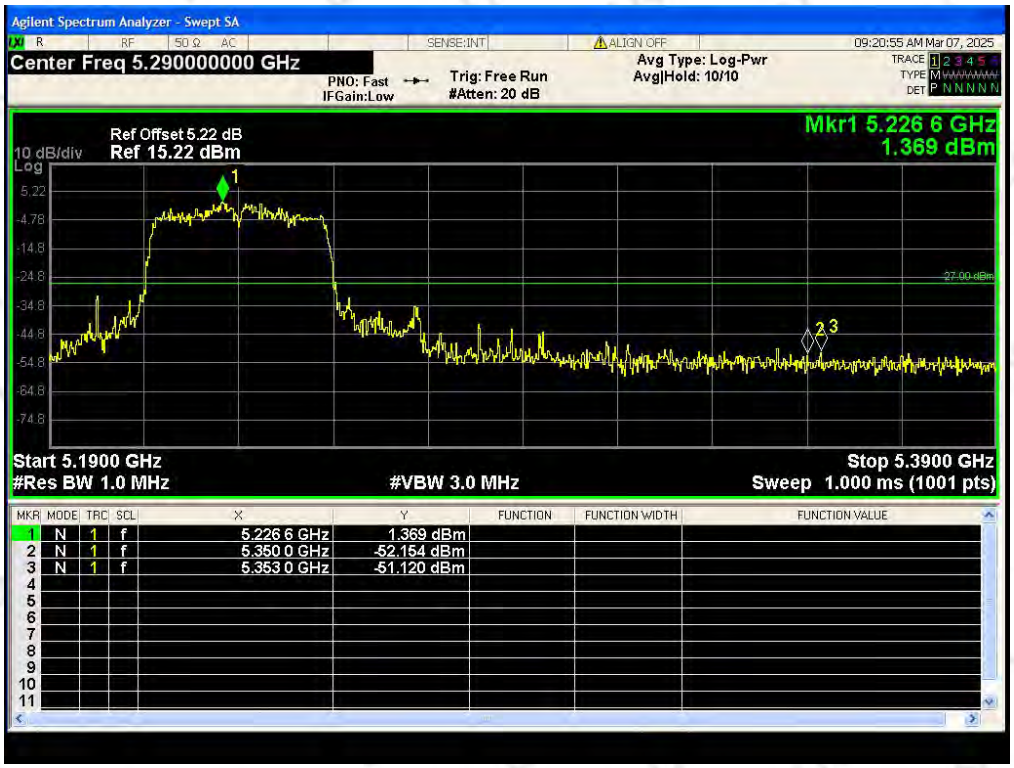
Band Edge NVNT 802.11n(HT20) 5180MHz Ant2



Band Edge NVNT 802.11n(HT20) 5240MHz Ant2

Band Edge NVNT 802.11n(HT40) 5190MHz Ant2

Band Edge NVNT 802.11n(HT40) 5230MHz Ant2



Frequency Stability

Condition	Mode	Frequency (MHz)	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	802.11a	5180	5180	0	25	Pass
NVNT	802.11a	5200	5200	0	25	Pass
NVNT	802.11a	5240	5240	0	25	Pass
NVNT	802.11ac20	5180	5180	0	25	Pass
NVNT	802.11ac20	5200	5200	0	25	Pass
NVNT	802.11ac20	5240	5240	0	25	Pass
NVNT	802.11ac40	5190	5190	0	25	Pass
NVNT	802.11ac40	5230	5230	0	25	Pass
NVNT	802.11ac80	5210	5210	0	25	Pass
NVNT	802.11n(HT20)	5180	5180	0	25	Pass
NVNT	802.11n(HT20)	5200	5200	0	25	Pass
NVNT	802.11n(HT20)	5240	5240	0	25	Pass
NVNT	802.11n(HT40)	5190	5190	0	25	Pass
NVNT	802.11n(HT40)	5230	5230	0	25	Pass

Freq. Stability NVNT 802.11a 5180MHz

Freq. Stability NVNT 802.11a 5200MHz

Freq. Stability NVNT 802.11a 5240MHz

Freq. Stability NVNT 802.11ac20 5180MHz

Freq. Stability NVNT 802.11ac20 5200MHz

Freq. Stability NVNT 802.11ac20 5240MHz

Freq. Stability NVNT 802.11ac40 5190MHz

Freq. Stability NVNT 802.11ac40 5230MHz

Freq. Stability NVNT 802.11ac80 5210MHz

Freq. Stability NVNT 802.11n(HT20) 5180MHz

Freq. Stability NVNT 802.11n(HT20) 5200MHz

Freq. Stability NVNT 802.11n(HT20) 5240MHz

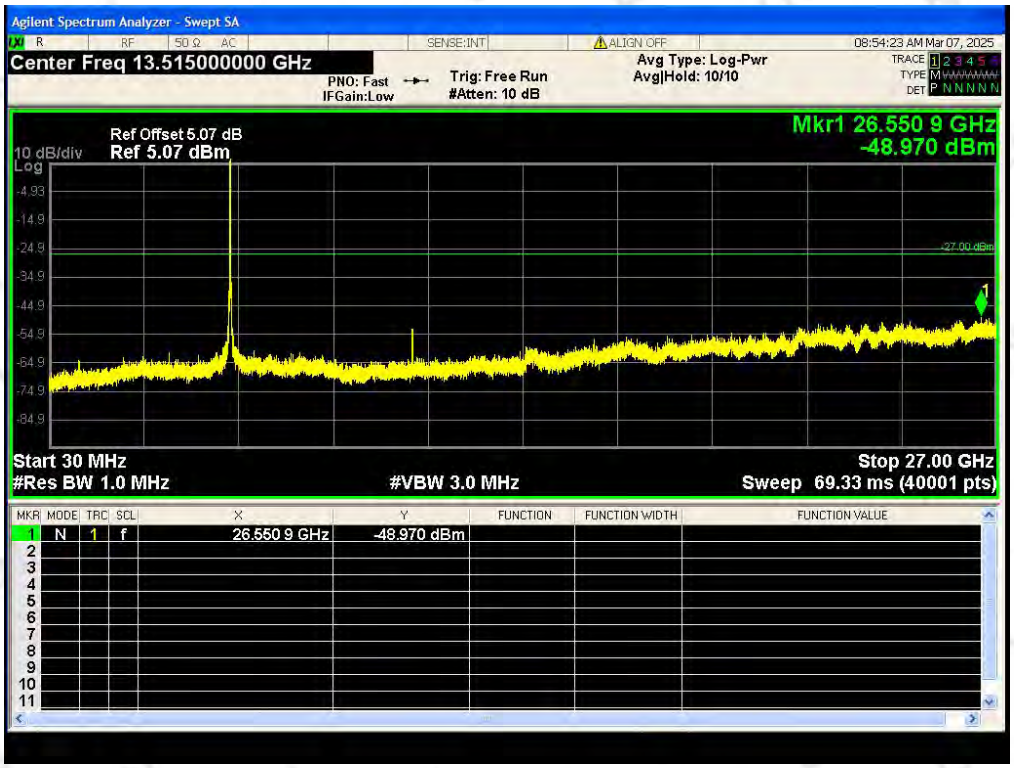
Freq. Stability NVNT 802.11n(HT40) 5190MHz

Freq. Stability NVNT 802.11n(HT40) 5230MHz

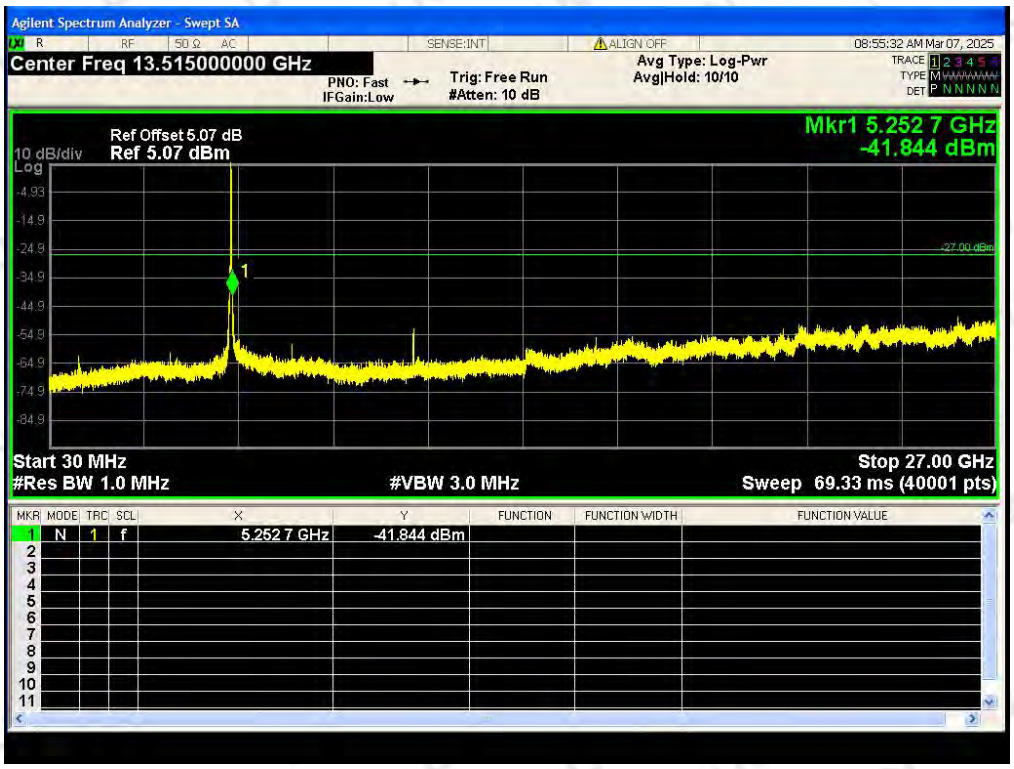
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 2	-48.96	-27	Pass
NVNT	802.11a	5200	Ant 2	-41.84	-27	Pass
NVNT	802.11a	5240	Ant 2	-49.71	-27	Pass
NVNT	802.11ac20	5180	Ant 2	-50.11	-27	Pass
NVNT	802.11ac20	5200	Ant 2	-49.42	-27	Pass
NVNT	802.11ac20	5240	Ant 2	-48.75	-27	Pass
NVNT	802.11ac40	5190	Ant 2	-49.35	-27	Pass
NVNT	802.11ac40	5230	Ant 2	-49.72	-27	Pass
NVNT	802.11ac80	5210	Ant 2	-48.95	-27	Pass
NVNT	802.11n(HT20)	5180	Ant 2	-45.73	-27	Pass
NVNT	802.11n(HT20)	5200	Ant 2	-45.74	-27	Pass
NVNT	802.11n(HT20)	5240	Ant 2	-49.25	-27	Pass
NVNT	802.11n(HT40)	5190	Ant 2	-49.46	-27	Pass
NVNT	802.11n(HT40)	5230	Ant 2	-48.94	-27	Pass

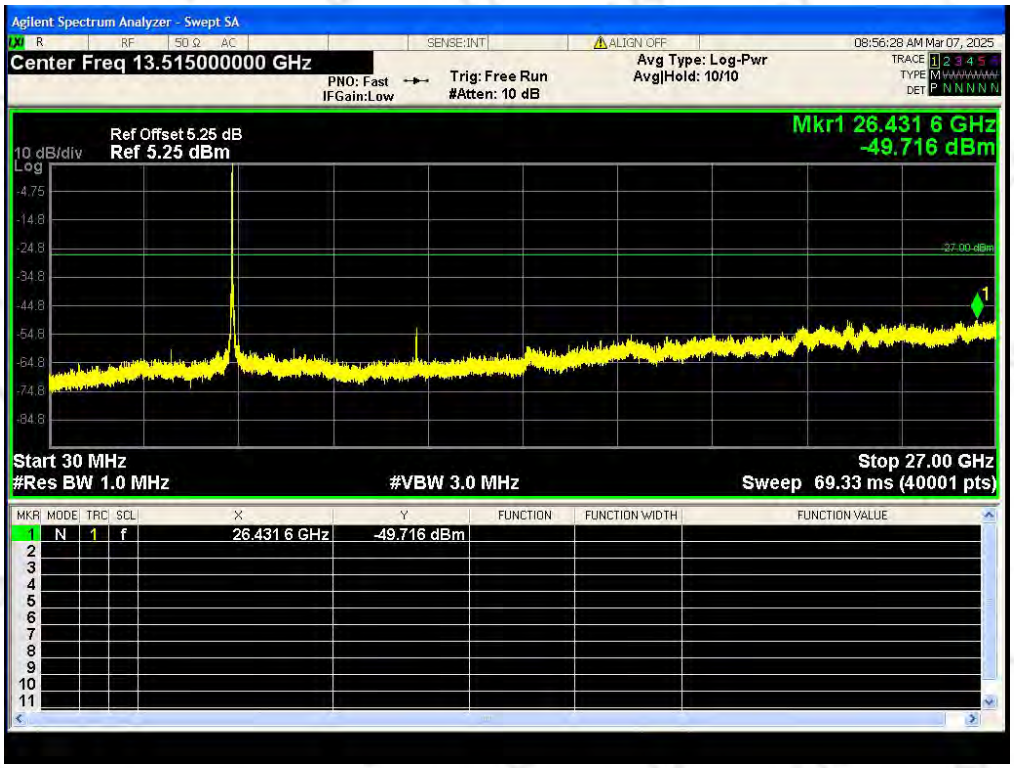
Tx. Spurious NVNT 802.11a 5180MHz Ant2 Emission



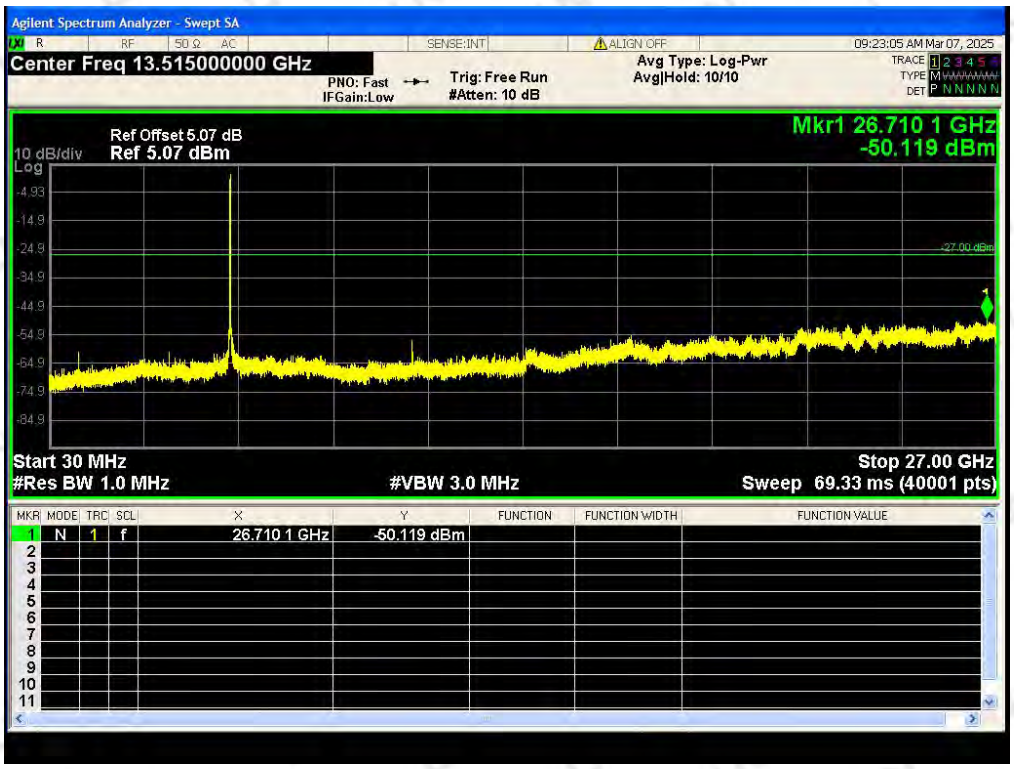
Tx. Spurious NVNT 802.11a 5200MHz Ant2 Emission



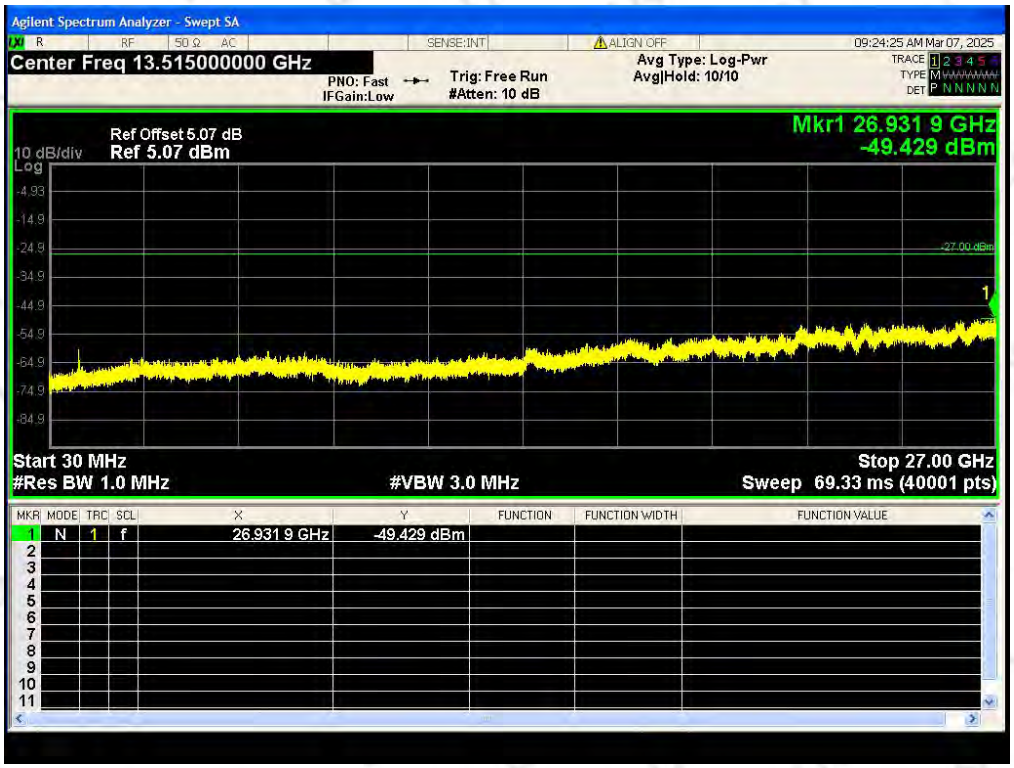
Tx. Spurious NVNT 802.11a 5240MHz Ant2 Emission



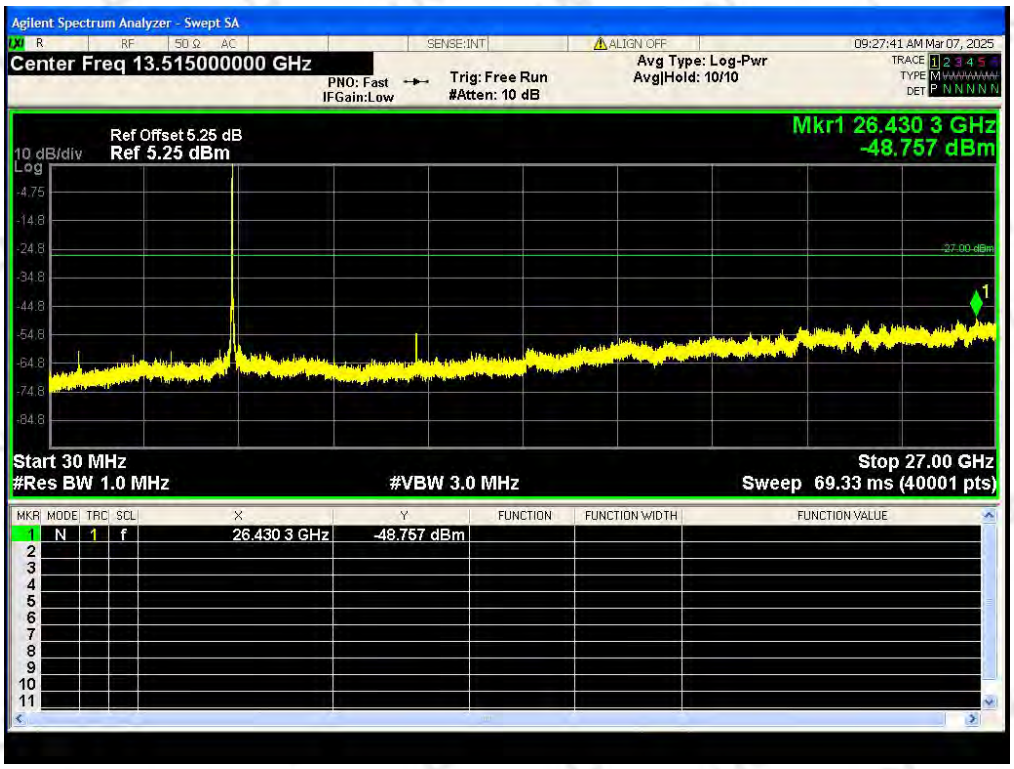
Tx. Spurious NVNT 802.11ac20 5180MHz Ant2 Emission



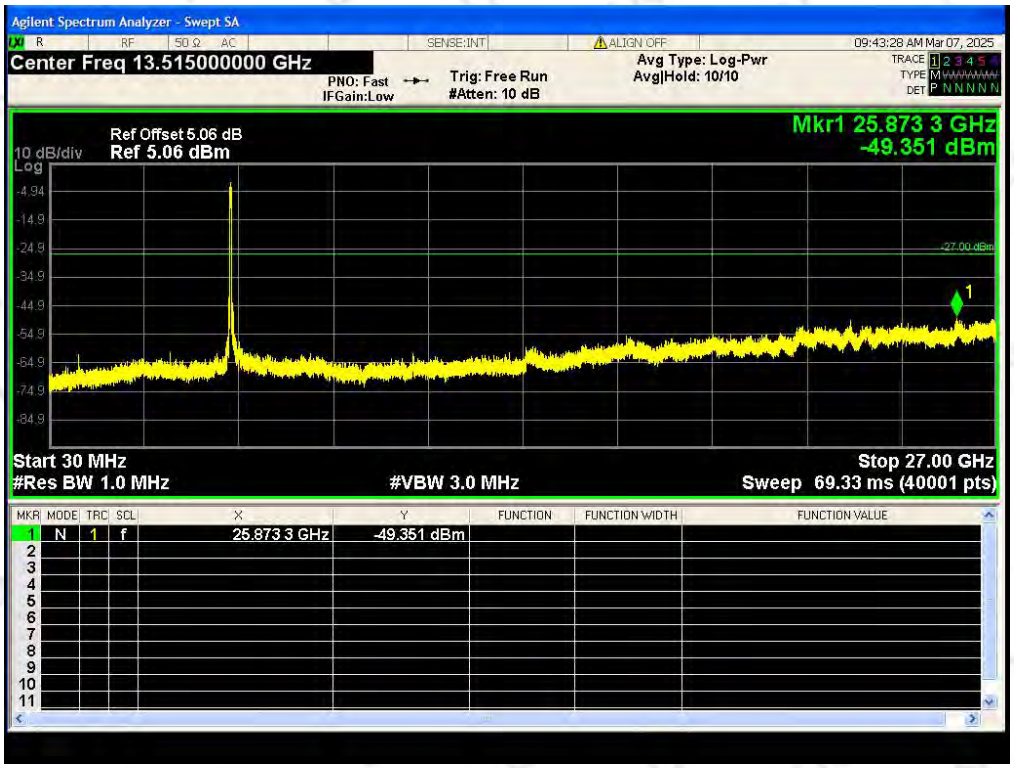
Tx. Spurious NVNT 802.11ac20 5200MHz Ant2 Emission



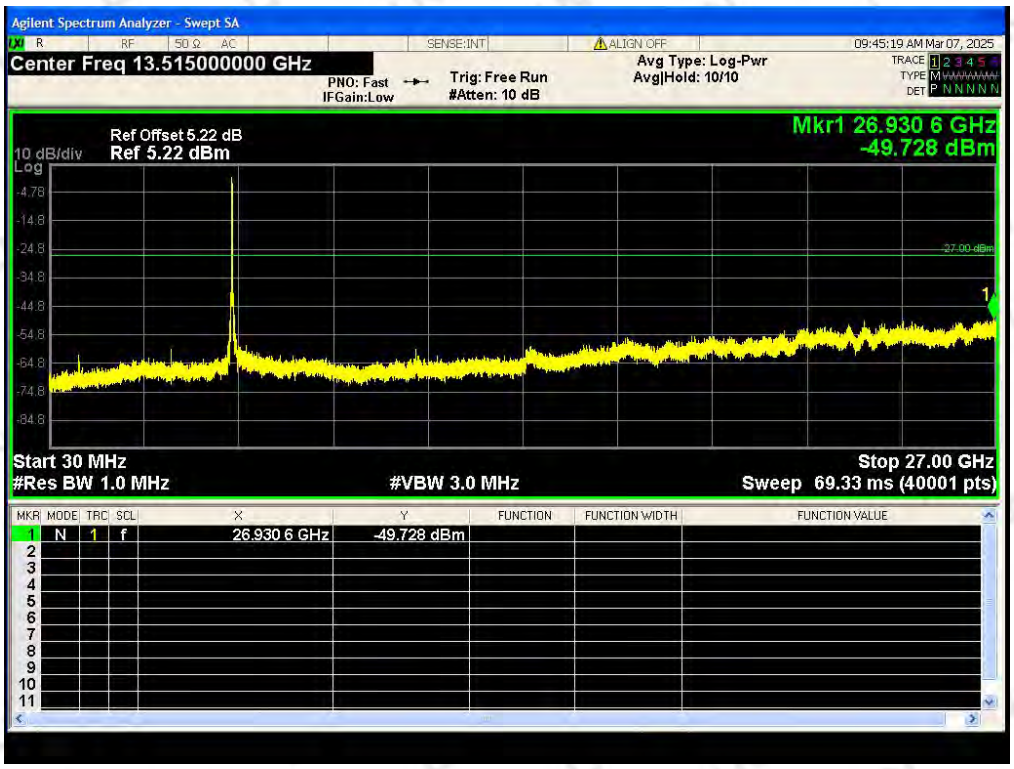
Tx. Spurious NVNT 802.11ac20 5240MHz Ant2 Emission



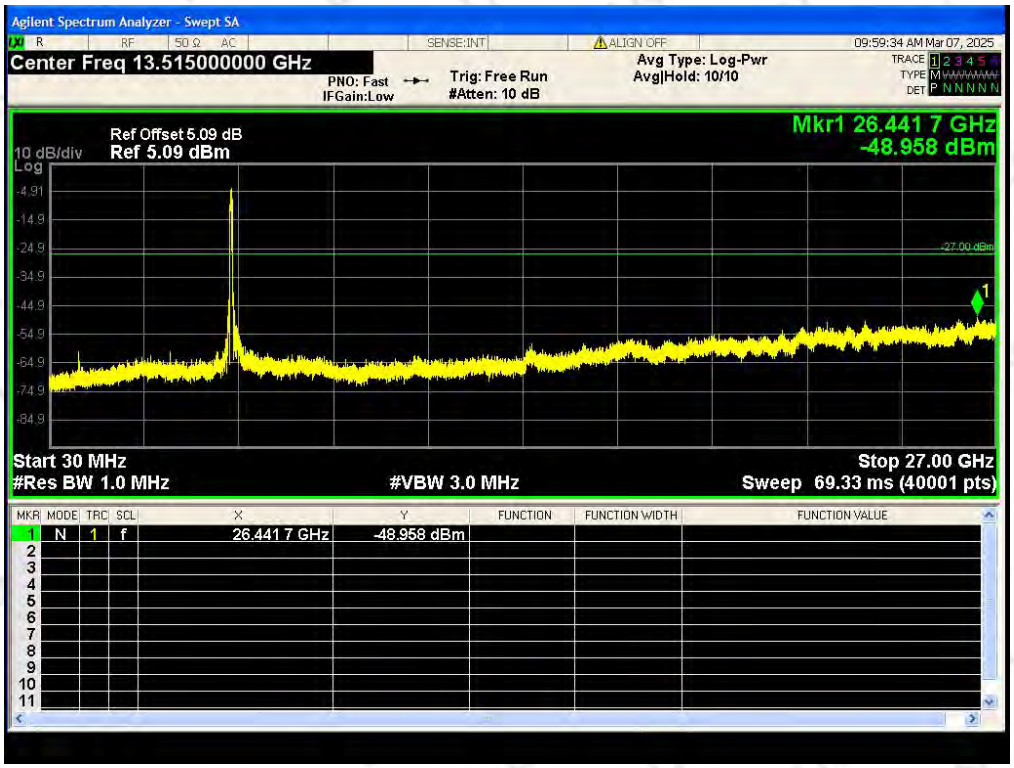
Tx. Spurious NVNT 802.11ac40 5190MHz Ant2 Emission



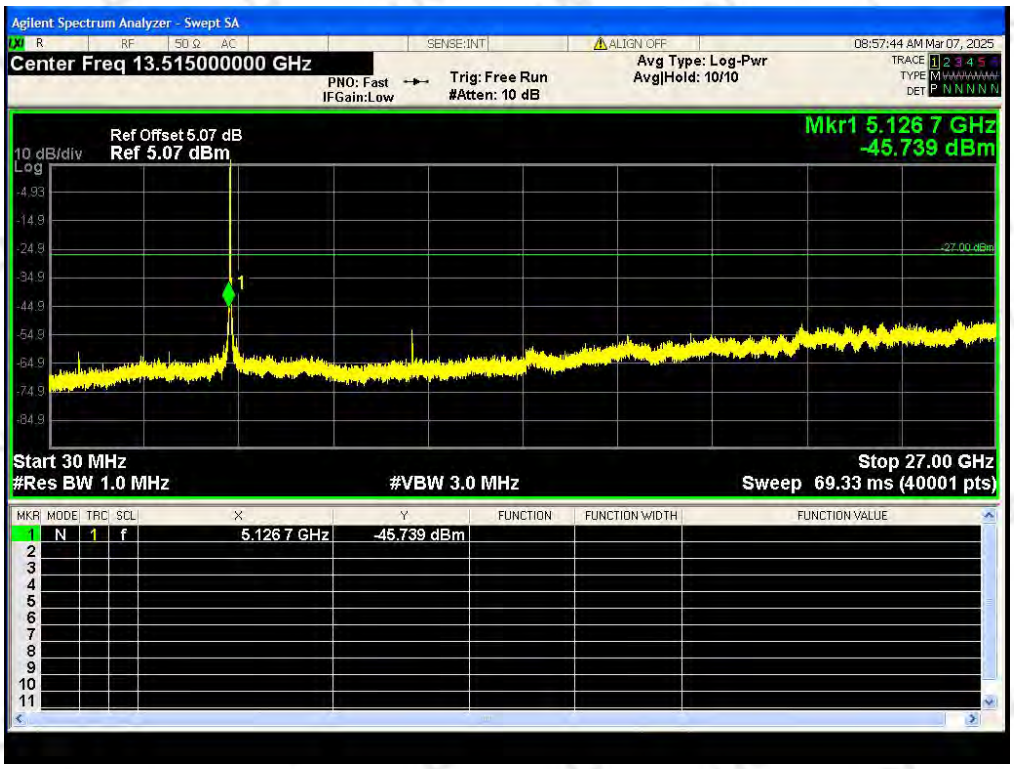
Tx. Spurious NVNT 802.11ac40 5230MHz Ant2 Emission



Tx. Spurious NVNT 802.11ac80 5210MHz Ant2 Emission



Tx. Spurious NVNT 802.11n(HT20) 5180MHz Ant2 Emission



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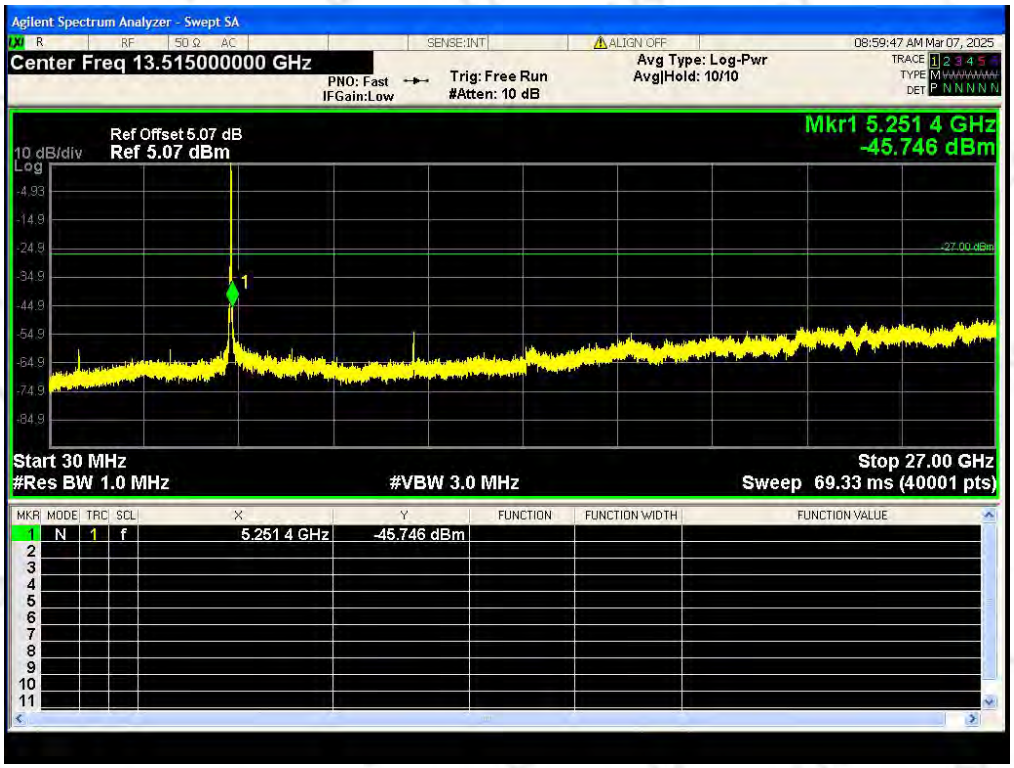
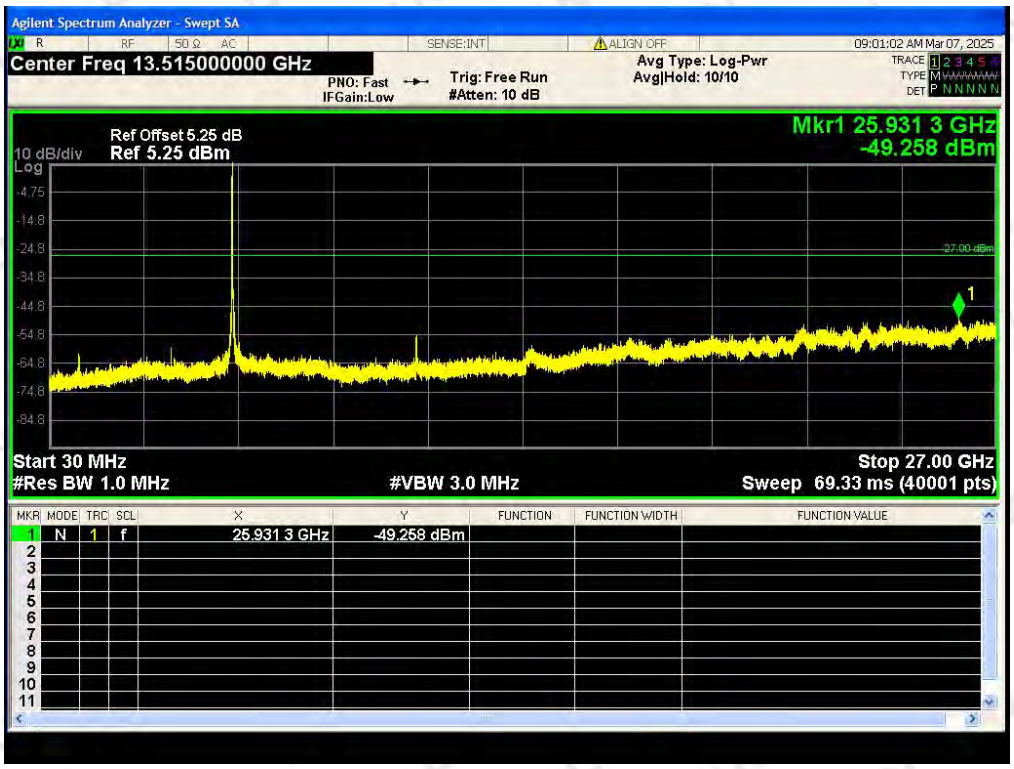
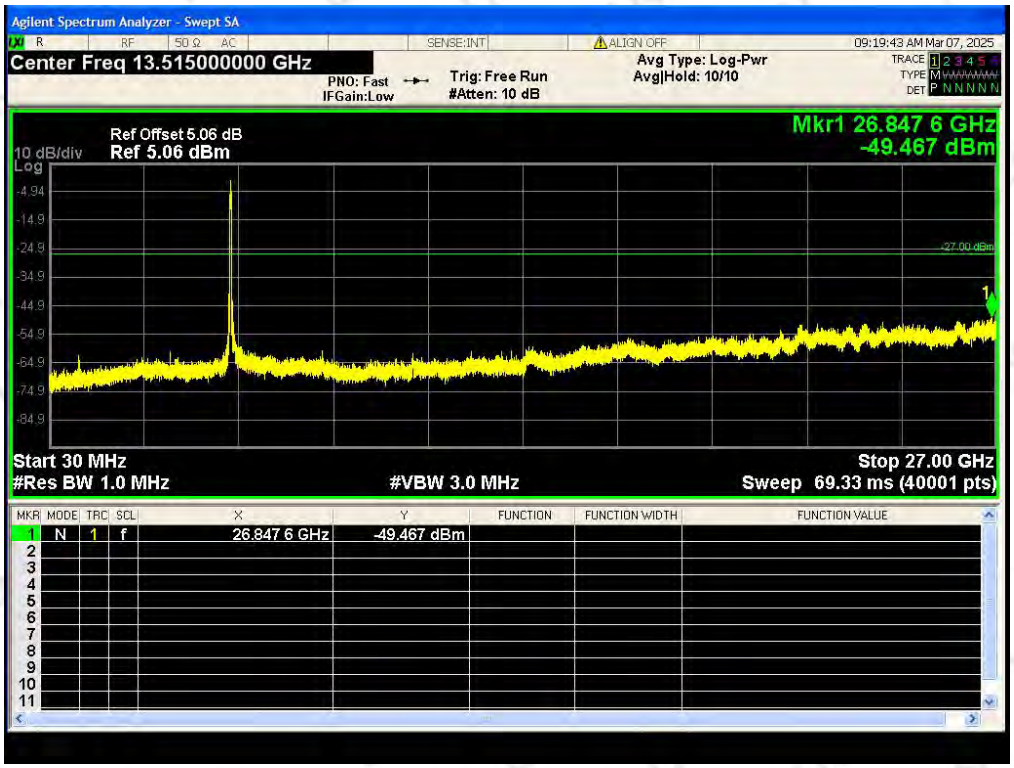
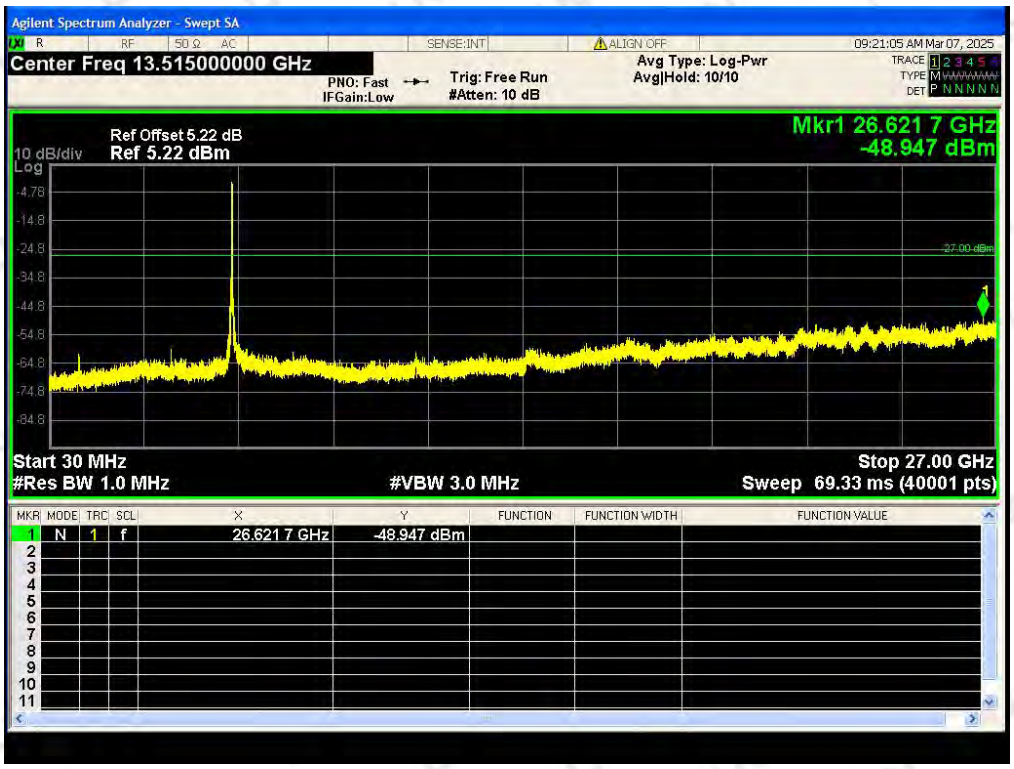


Tx. Spurious NVNT 802.11n(HT20) 5240MHz Ant2 Emission



Tx. Spurious NVNT 802.11n(HT40) 5190MHz Ant2 Emission



Tx. Spurious NVNT 802.11n(HT40) 5230MHz Ant2 Emission