

Appendix RF test data for WIFI5G_UNII band 1

Product Name: Smart Battery Camera

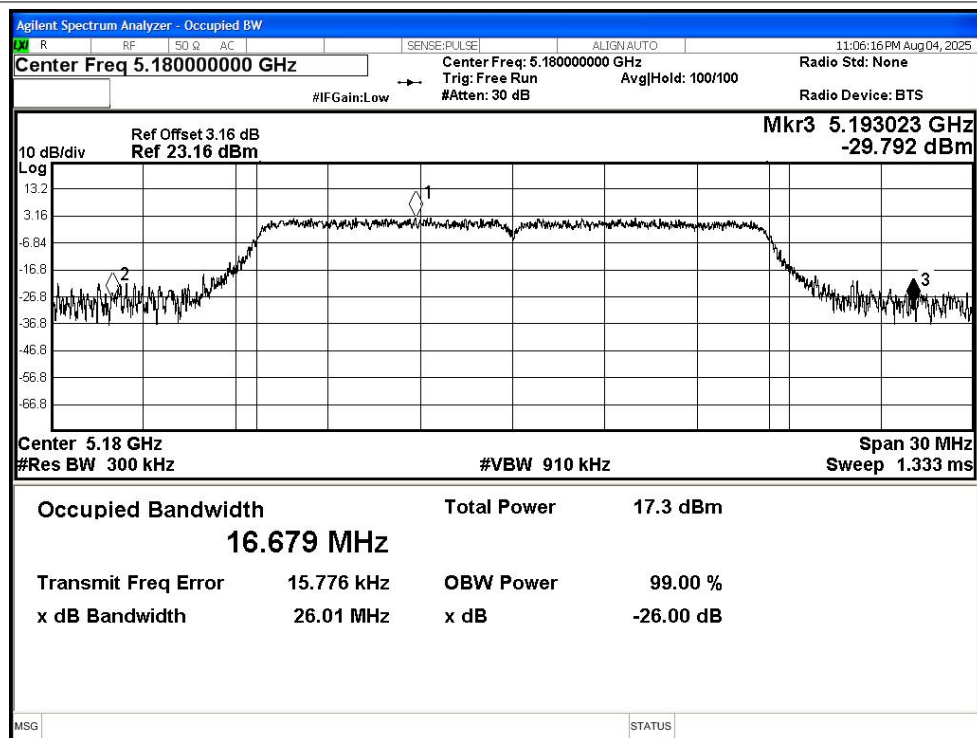
Test Model: Q12

-26dB Bandwidth

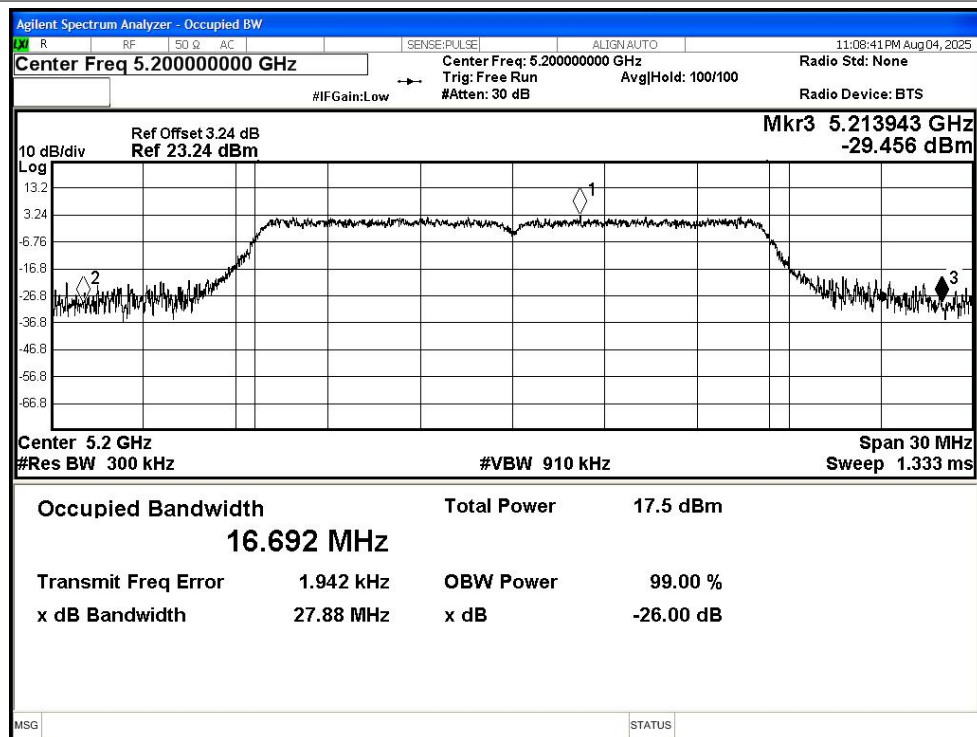
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	26.014	---	Pass
NVNT	a	5200	Ant1	27.881	---	Pass
NVNT	a	5240	Ant1	26.911	---	Pass
NVNT	n20	5180	Ant1	27.718	---	Pass
NVNT	n20	5200	Ant1	28.899	---	Pass
NVNT	n20	5240	Ant1	26.752	---	Pass
NVNT	n40	5190	Ant1	46.759	---	Pass
NVNT	n40	5230	Ant1	48.365	---	Pass
NVNT	ac20	5180	Ant1	28.33	---	Pass
NVNT	ac20	5200	Ant1	28.954	---	Pass
NVNT	ac20	5240	Ant1	27.402	---	Pass
NVNT	ac40	5190	Ant1	50.533	---	Pass
NVNT	ac40	5230	Ant1	51.609	---	Pass
NVNT	ax20	5180	Ant1	29.511	---	Pass
NVNT	ax20	5200	Ant1	25.45	---	Pass
NVNT	ax20	5240	Ant1	29.288	---	Pass
NVNT	ax40	5190	Ant1	43.128	---	Pass
NVNT	ax40	5230	Ant1	48.598	---	Pass

Test Graphs

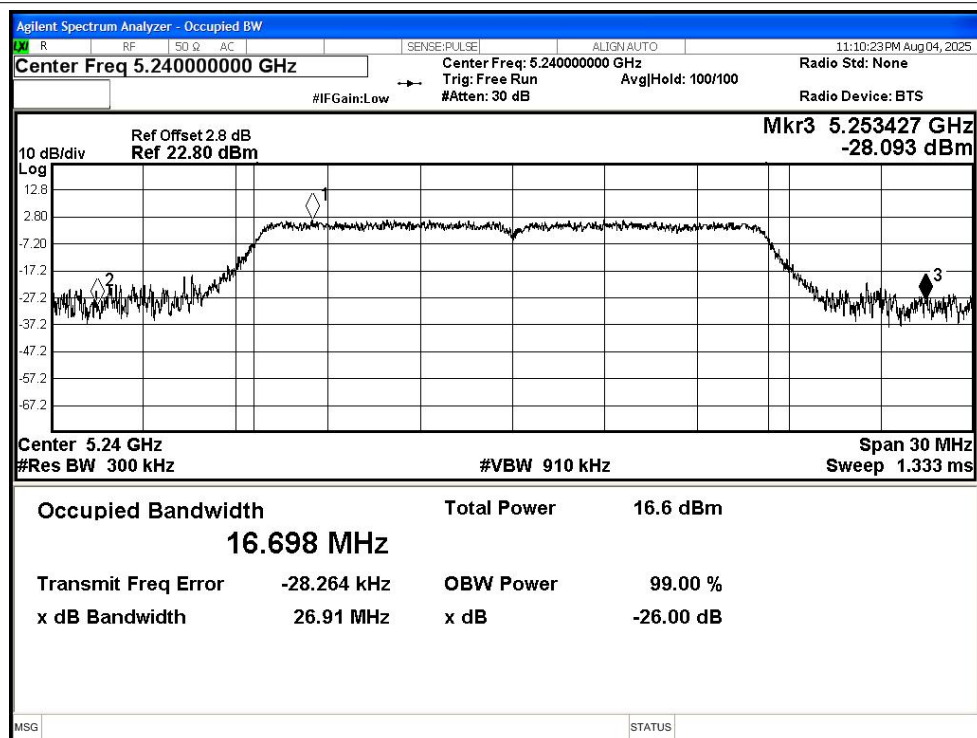
-26dB Bandwidth NVNT a 5180MHz Ant1



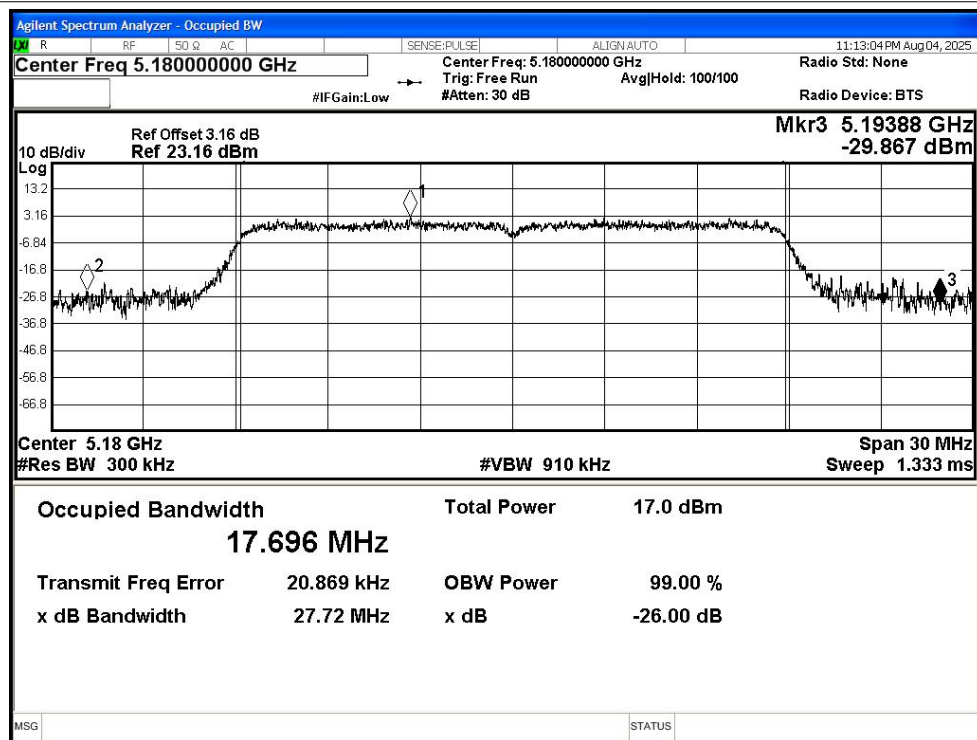
-26dB Bandwidth NVNT a 5200MHz Ant1



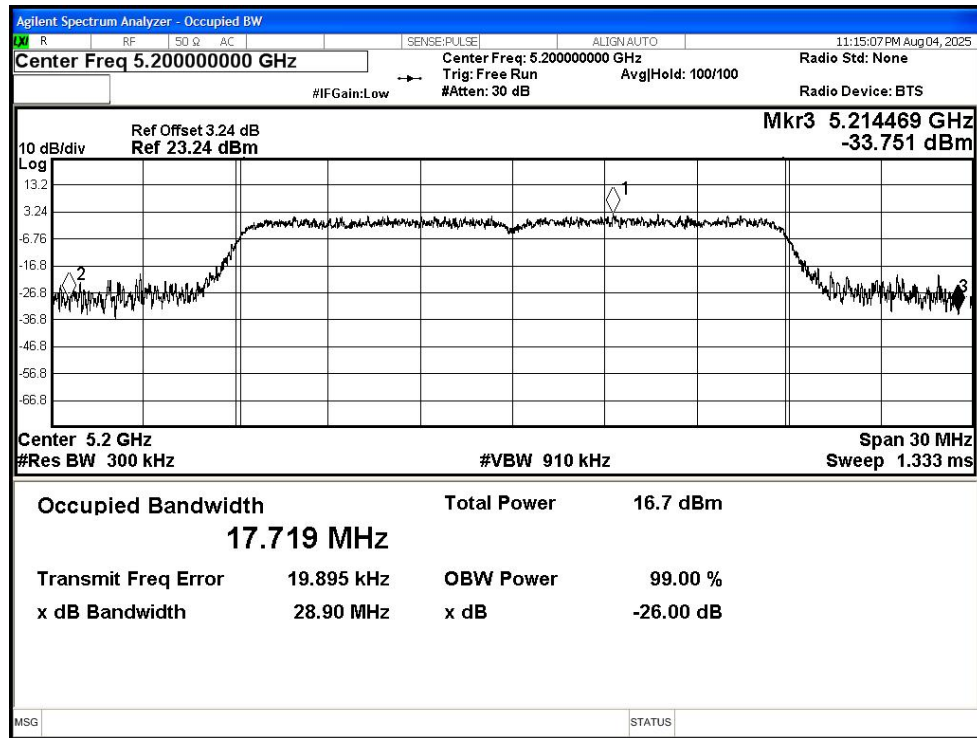
-26dB Bandwidth NVNT a 5240MHz Ant1



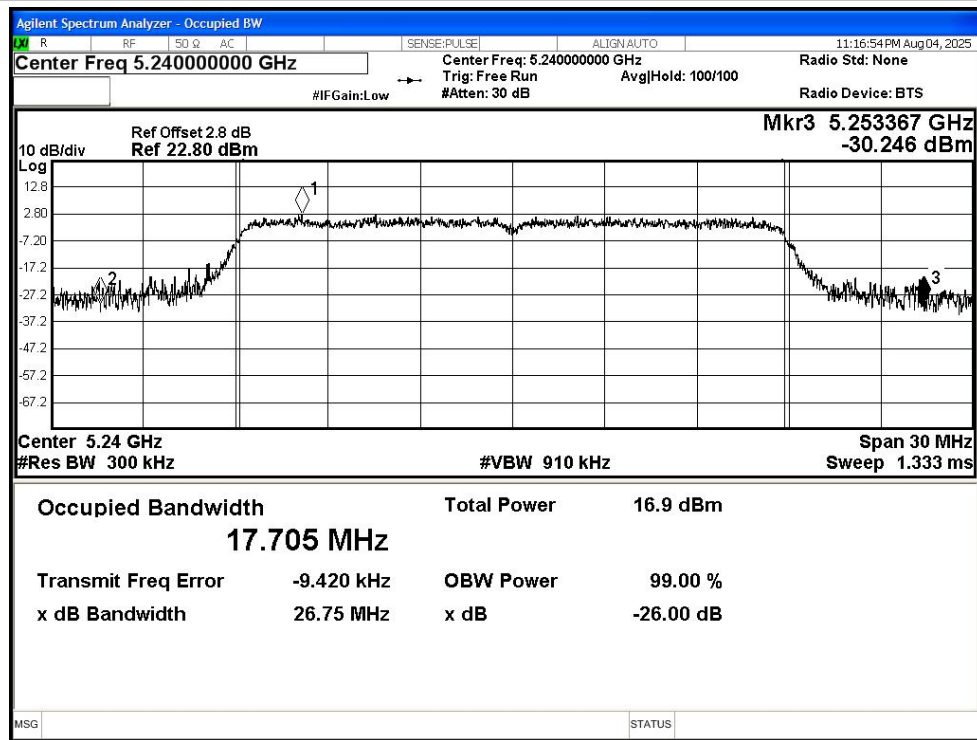
-26dB Bandwidth NVNT n20 5180MHz Ant1



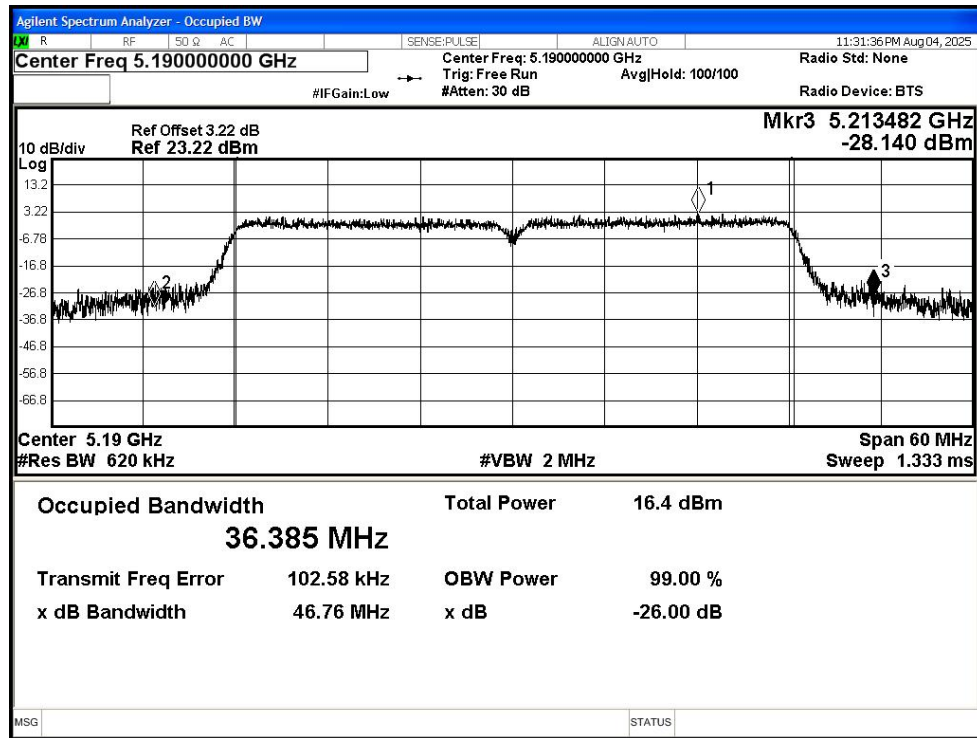
-26dB Bandwidth NVNT n20 5200MHz Ant1



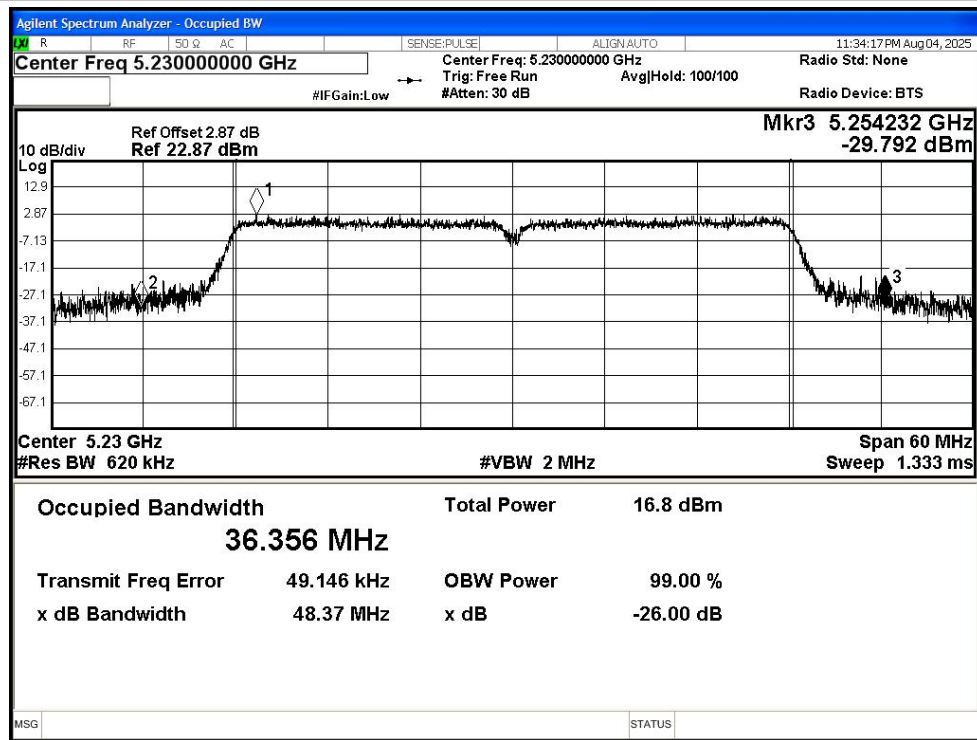
-26dB Bandwidth NVNT n20 5240MHz Ant1



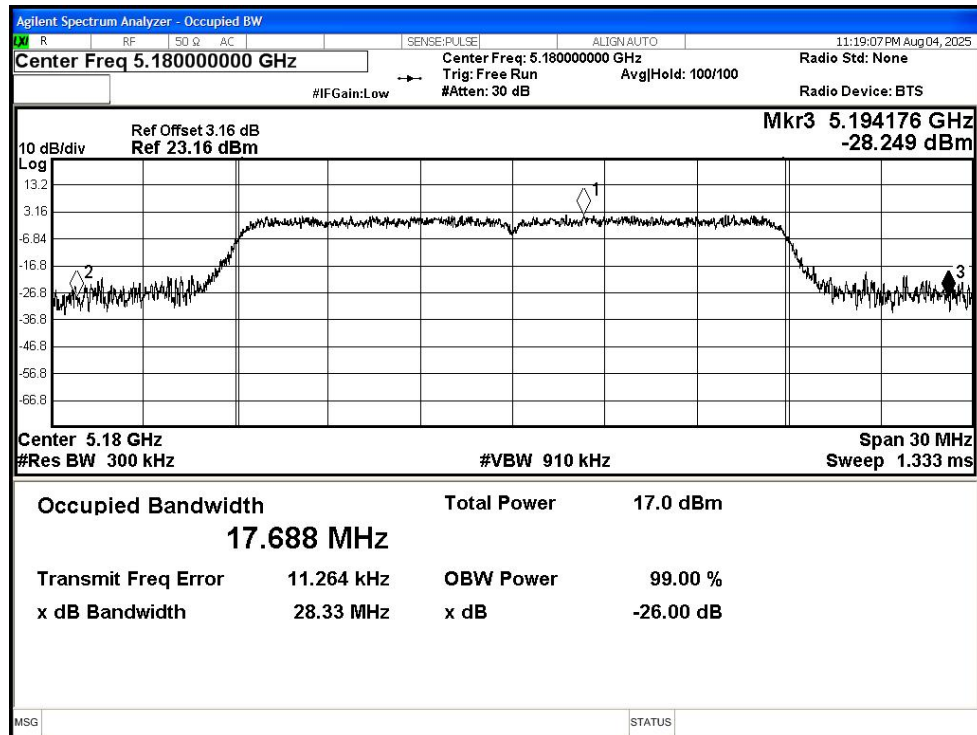
-26dB Bandwidth NVNT n40 5190MHz Ant1



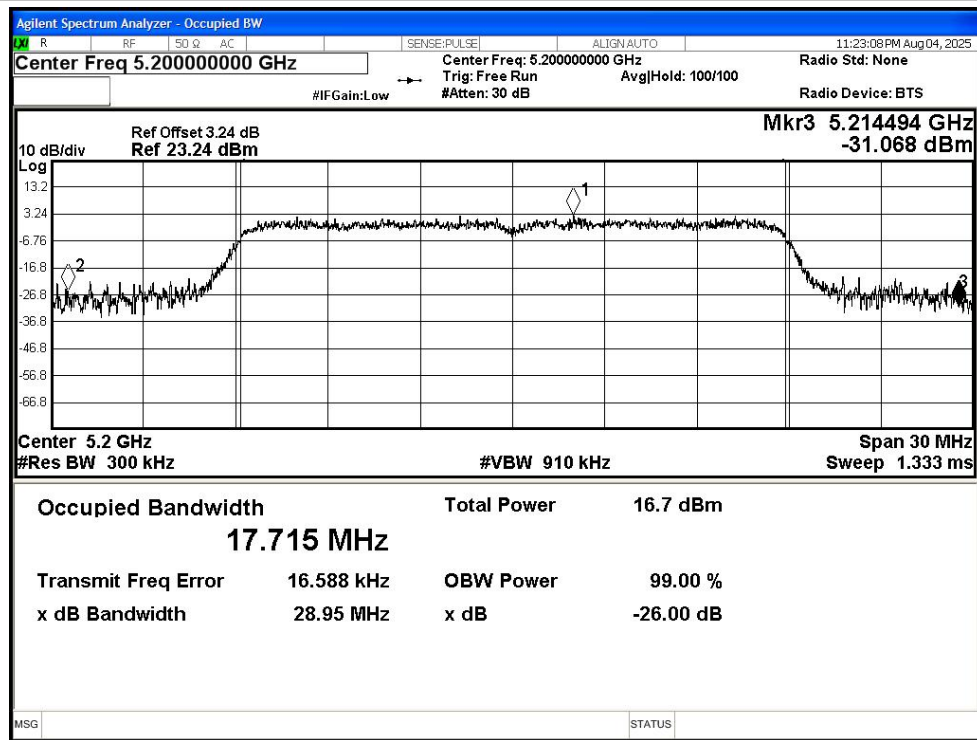
-26dB Bandwidth NVNT n40 5230MHz Ant1



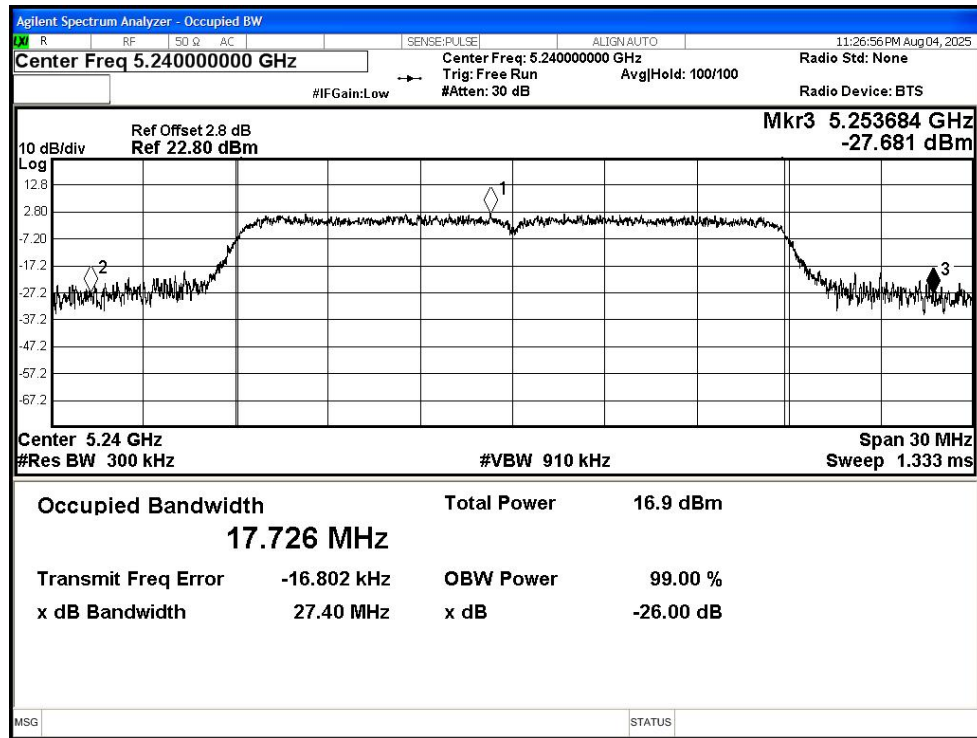
-26dB Bandwidth NVNT ac20 5180MHz Ant1



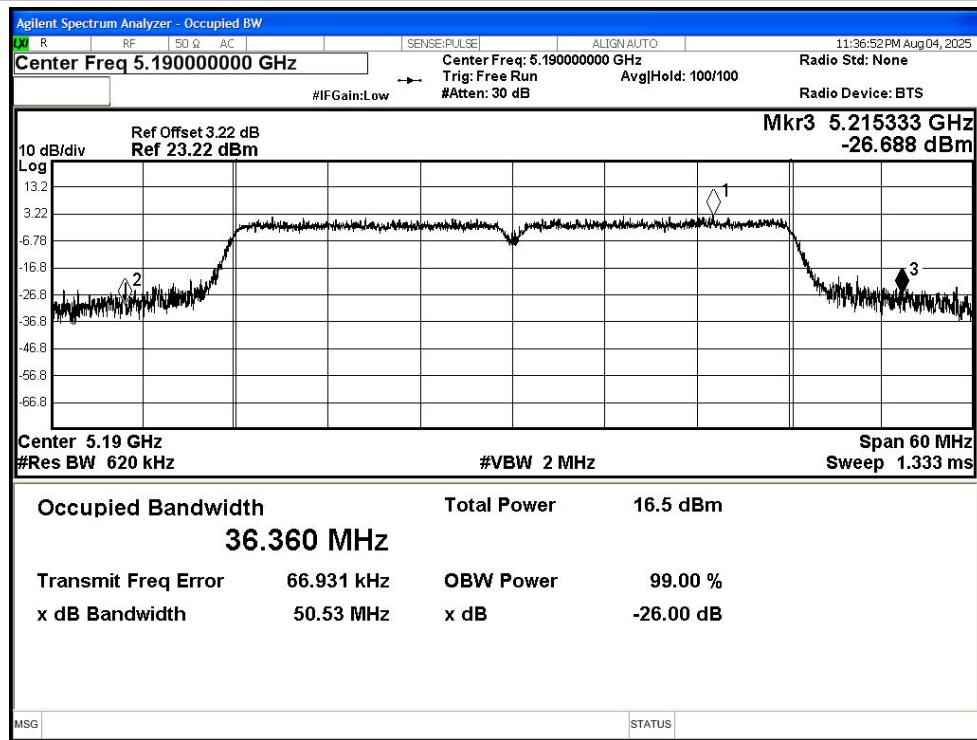
-26dB Bandwidth NVNT ac20 5200MHz Ant1



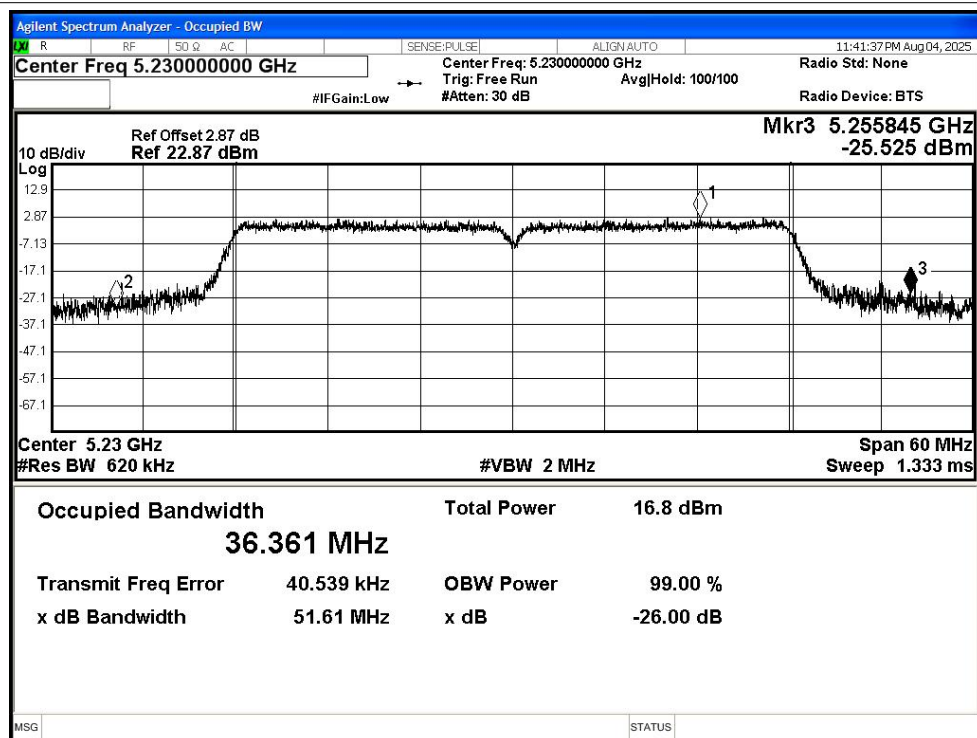
-26dB Bandwidth NVNT ac20 5240MHz Ant1



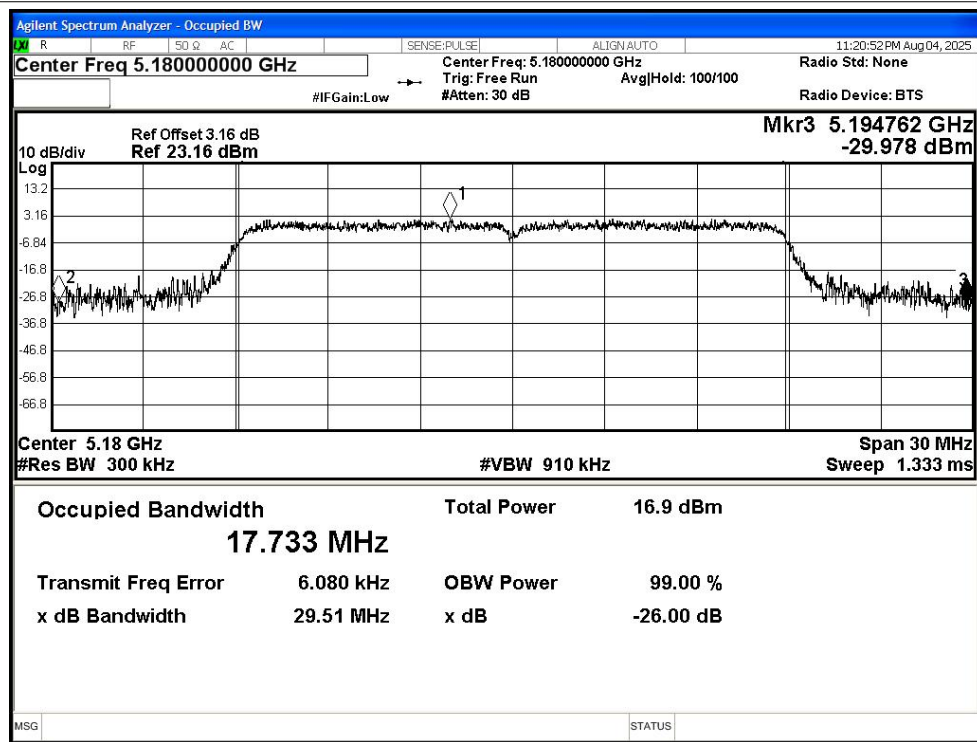
-26dB Bandwidth NVNT ac40 5190MHz Ant1



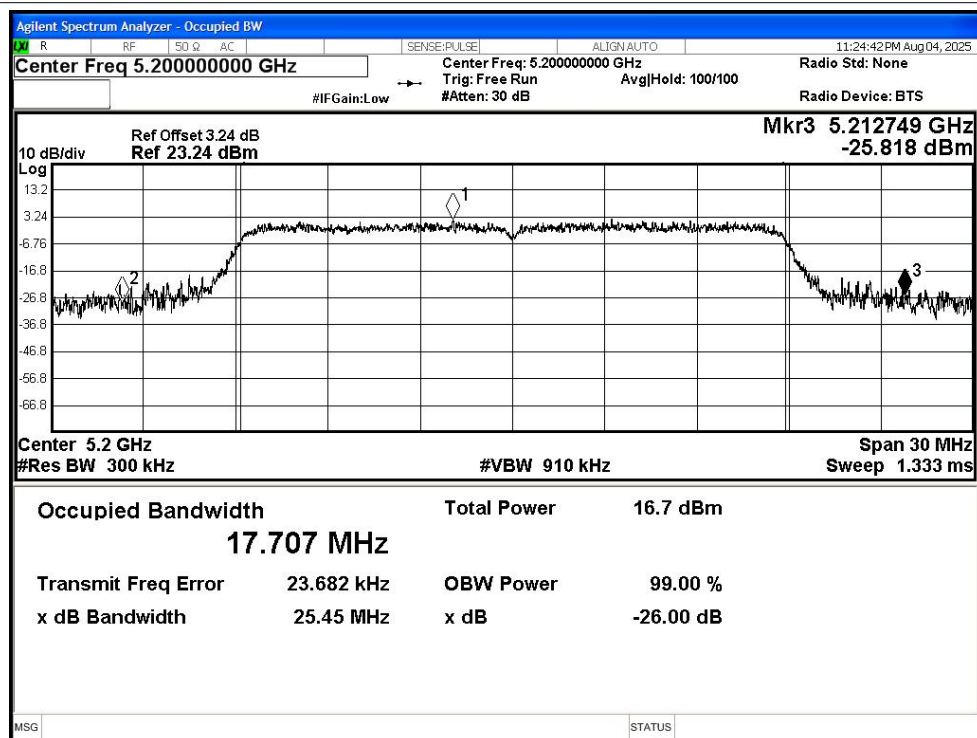
-26dB Bandwidth NVNT ac40 5230MHz Ant1



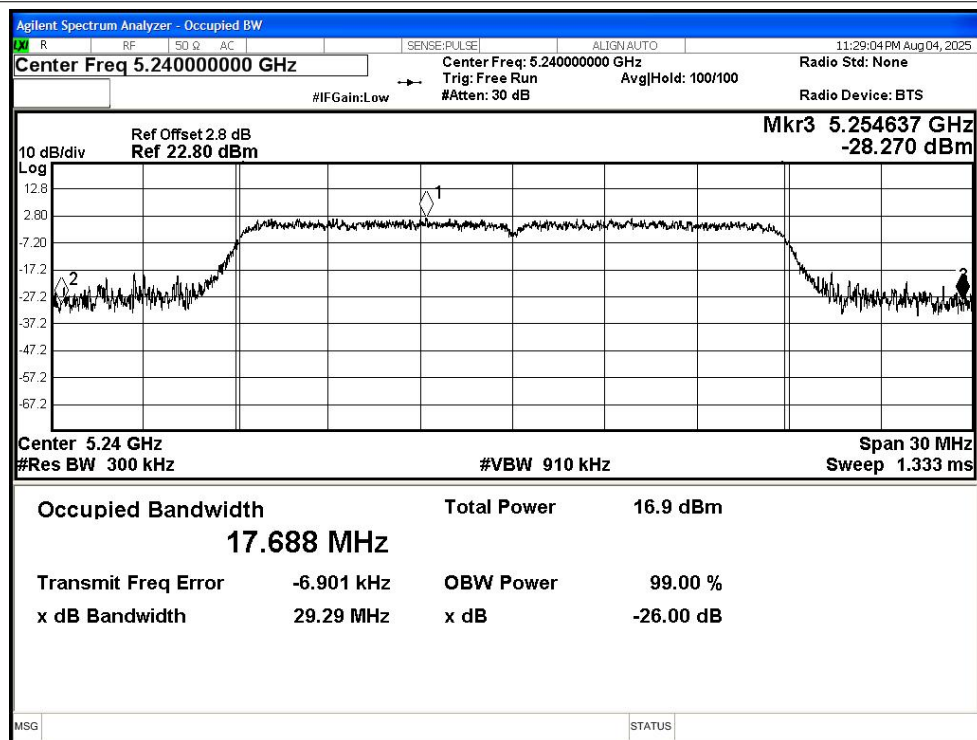
-26dB Bandwidth NVNT ax20 5180MHz Ant1



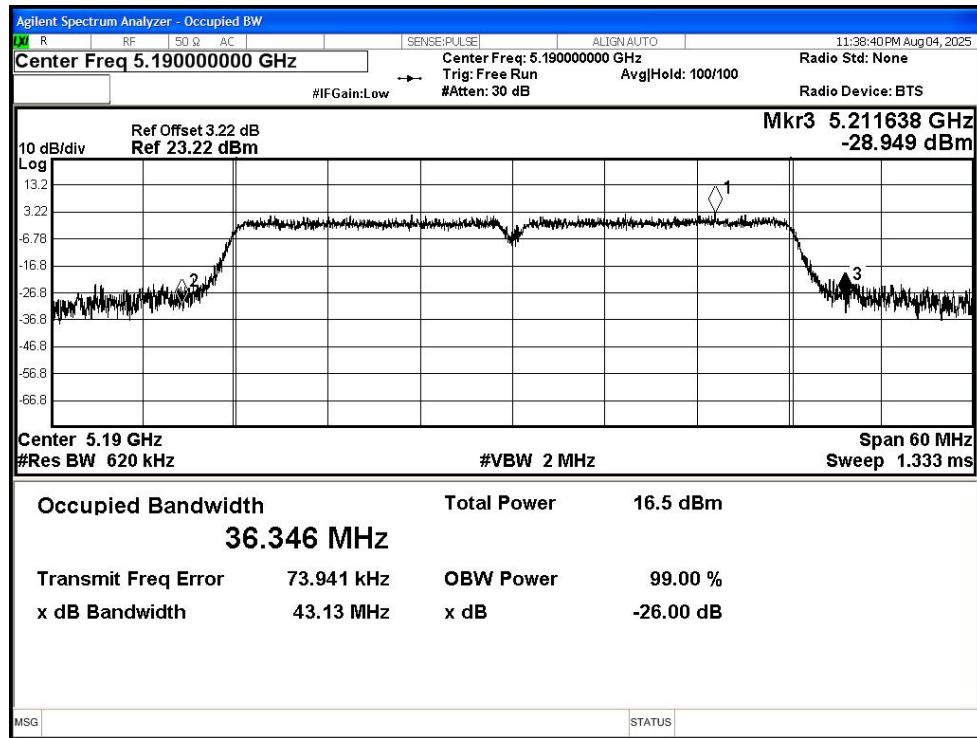
-26dB Bandwidth NVNT ax20 5200MHz Ant1



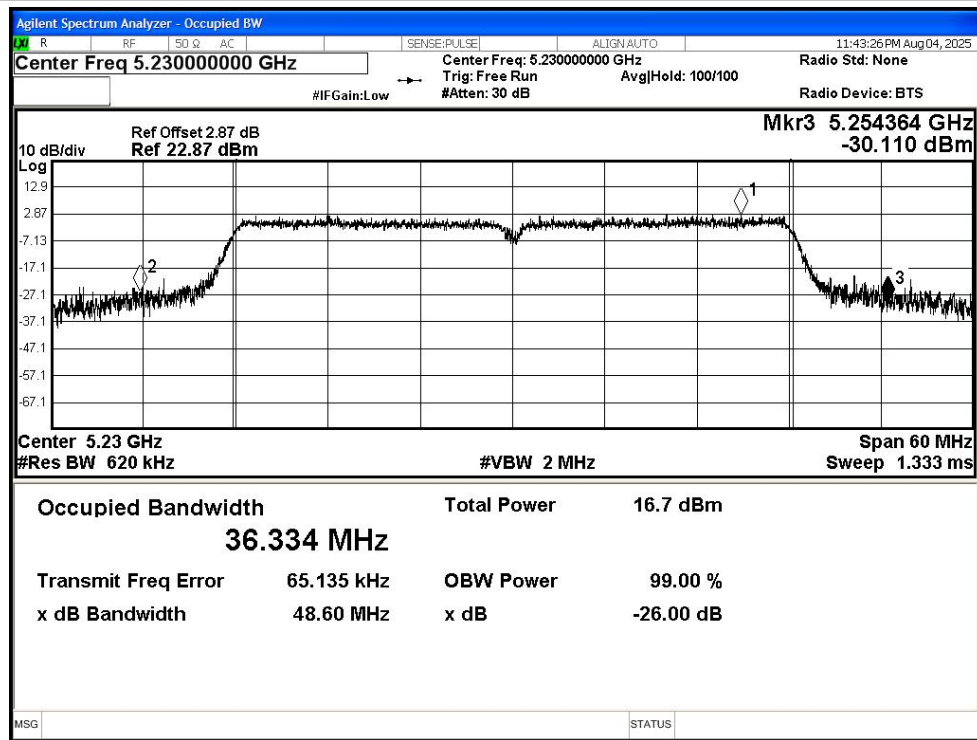
-26dB Bandwidth NVNT ax20 5240MHz Ant1



-26dB Bandwidth NVNT ax40 5190MHz Ant1



-26dB Bandwidth NVNT ax40 5230MHz Ant1



Maximum Conducted Output Power

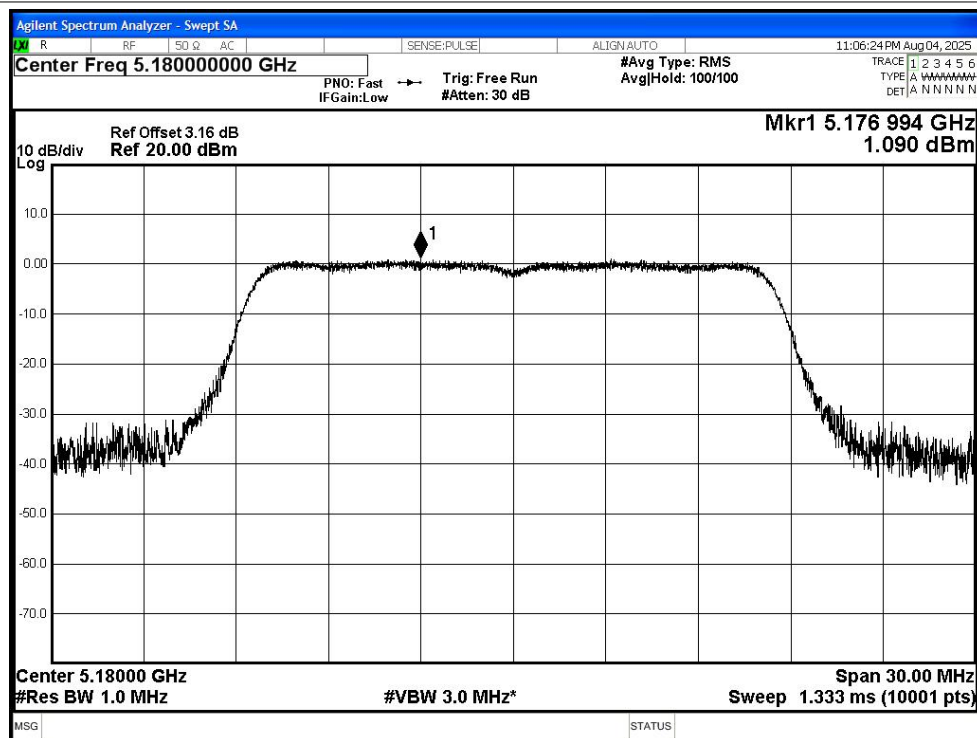
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.52	0.24	11.76	24	Pass
NVNT	a	5200	Ant1	11.79	0.24	12.03	24	Pass
NVNT	a	5240	Ant1	10.87	0.24	11.11	24	Pass
NVNT	n20	5180	Ant1	11.53	0.12	11.65	24	Pass
NVNT	n20	5200	Ant1	11.17	0.12	11.29	24	Pass
NVNT	n20	5240	Ant1	11.35	0.12	11.47	24	Pass
NVNT	n40	5190	Ant1	10.14	0.24	10.38	24	Pass
NVNT	n40	5230	Ant1	10.25	0.24	10.49	24	Pass
NVNT	ac20	5180	Ant1	11.47	0.12	11.59	24	Pass
NVNT	ac20	5200	Ant1	11.24	0.12	11.36	24	Pass
NVNT	ac20	5240	Ant1	11.39	0.12	11.51	24	Pass
NVNT	ac40	5190	Ant1	10.15	0.24	10.39	24	Pass
NVNT	ac40	5230	Ant1	10.33	0.24	10.57	24	Pass
NVNT	ax20	5180	Ant1	11.46	0.12	11.58	24	Pass
NVNT	ax20	5200	Ant1	11.21	0.12	11.33	24	Pass
NVNT	ax20	5240	Ant1	11.26	0.12	11.38	24	Pass
NVNT	ax40	5190	Ant1	10.14	0.24	10.38	24	Pass
NVNT	ax40	5230	Ant1	10.18	0.24	10.42	24	Pass

Maximum Power Spectral Density Level

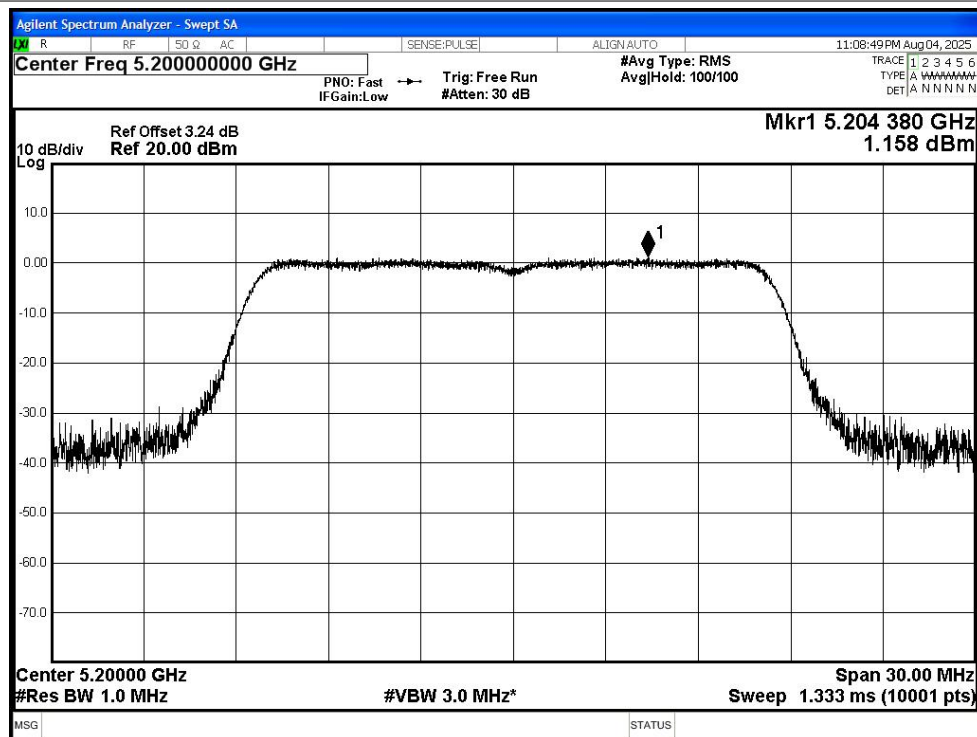
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.09	0.24	1.33	11	Pass
NVNT	a	5200	Ant1	1.16	0.24	1.4	11	Pass
NVNT	a	5240	Ant1	0.21	0.24	0.45	11	Pass
NVNT	n20	5180	Ant1	0.75	0.12	0.87	11	Pass
NVNT	n20	5200	Ant1	0.35	0.12	0.47	11	Pass
NVNT	n20	5240	Ant1	0.43	0.12	0.55	11	Pass
NVNT	n40	5190	Ant1	-3.48	0.24	-3.24	11	Pass
NVNT	n40	5230	Ant1	-3.35	0.24	-3.11	11	Pass
NVNT	ac20	5180	Ant1	0.65	0.12	0.77	11	Pass
NVNT	ac20	5200	Ant1	0.59	0.12	0.71	11	Pass
NVNT	ac20	5240	Ant1	0.66	0.12	0.78	11	Pass
NVNT	ac40	5190	Ant1	-3.4	0.24	-3.16	11	Pass
NVNT	ac40	5230	Ant1	-3.26	0.24	-3.02	11	Pass
NVNT	ax20	5180	Ant1	0.94	0.12	1.06	11	Pass
NVNT	ax20	5200	Ant1	0.58	0.12	0.7	11	Pass
NVNT	ax20	5240	Ant1	0.34	0.12	0.46	11	Pass
NVNT	ax40	5190	Ant1	-3.67	0.24	-3.43	11	Pass
NVNT	ax40	5230	Ant1	-3.45	0.24	-3.21	11	Pass

Test Graphs

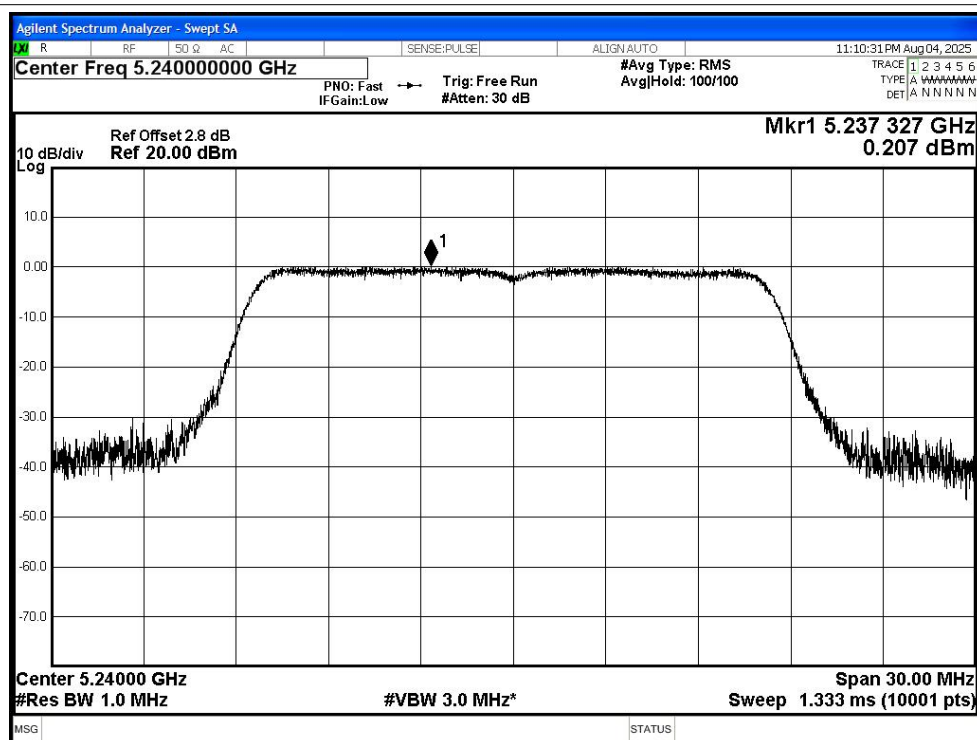
PSD NVNT a 5180MHz Ant1



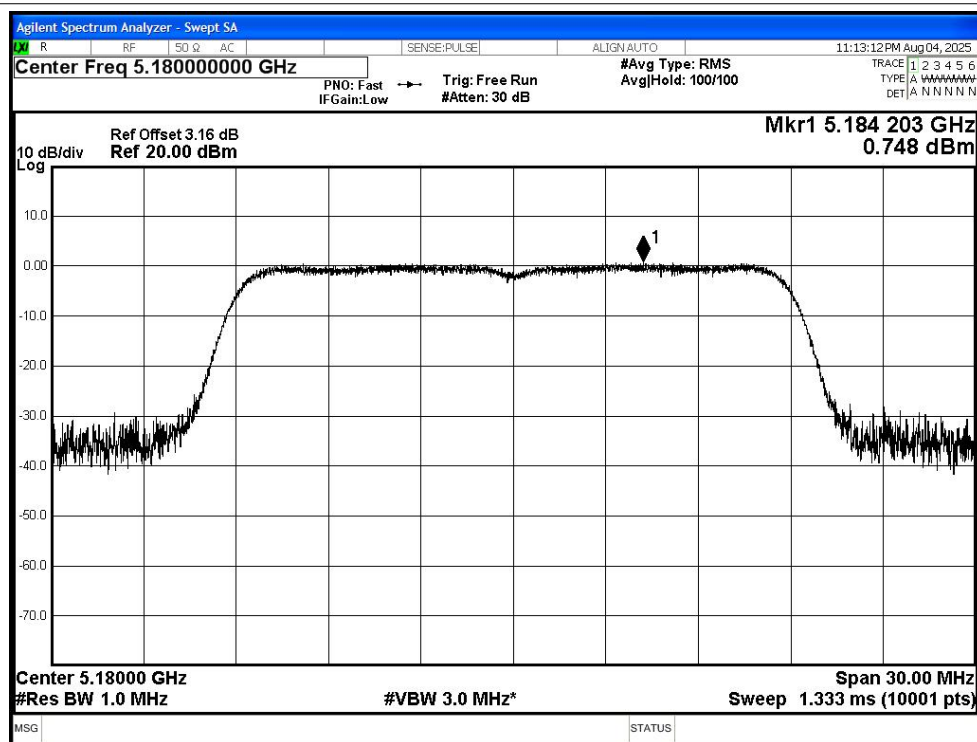
PSD NVNT a 5200MHz Ant1



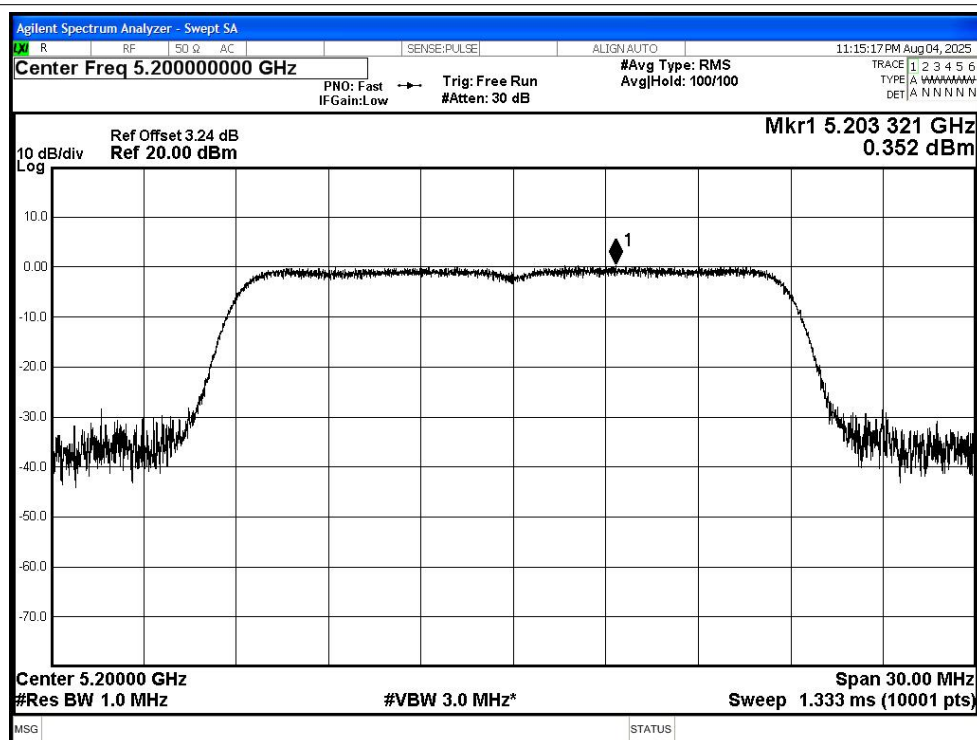
PSD NVNT a 5240MHz Ant1



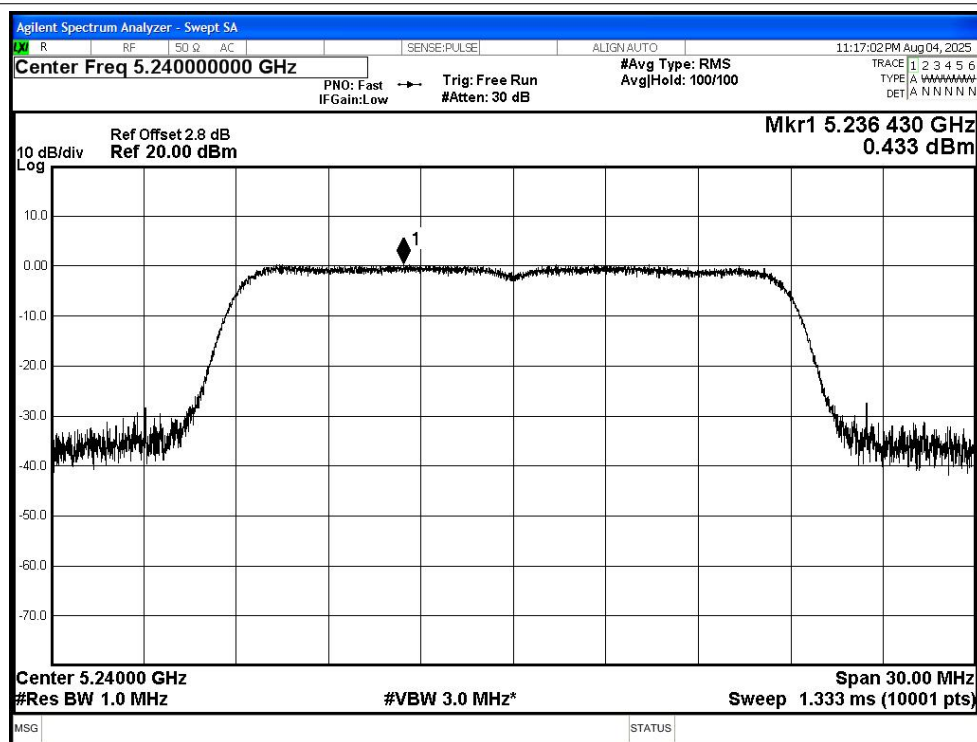
PSD NVNT n20 5180MHz Ant1



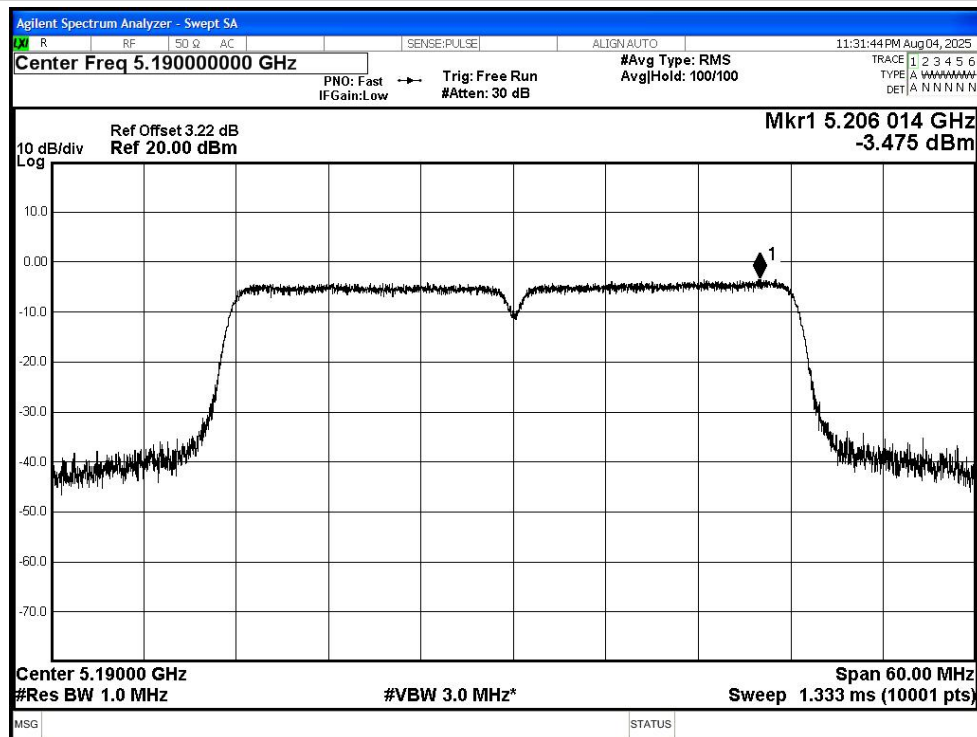
PSD NVNT n20 5200MHz Ant1



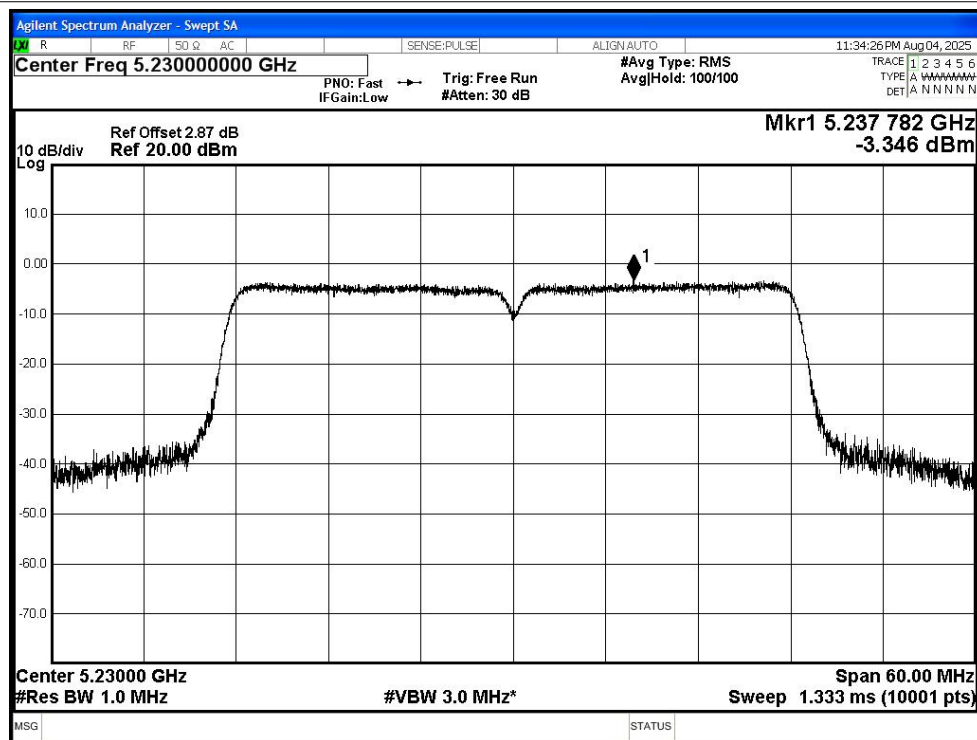
PSD NVNT n20 5240MHz Ant1



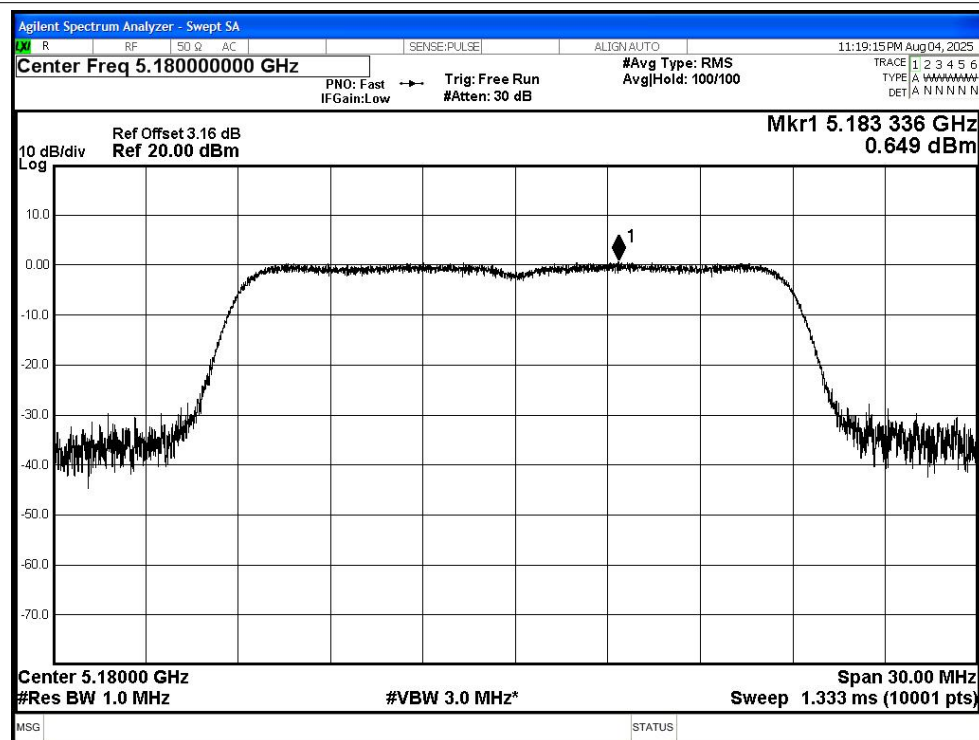
PSD NVNT n40 5190MHz Ant1



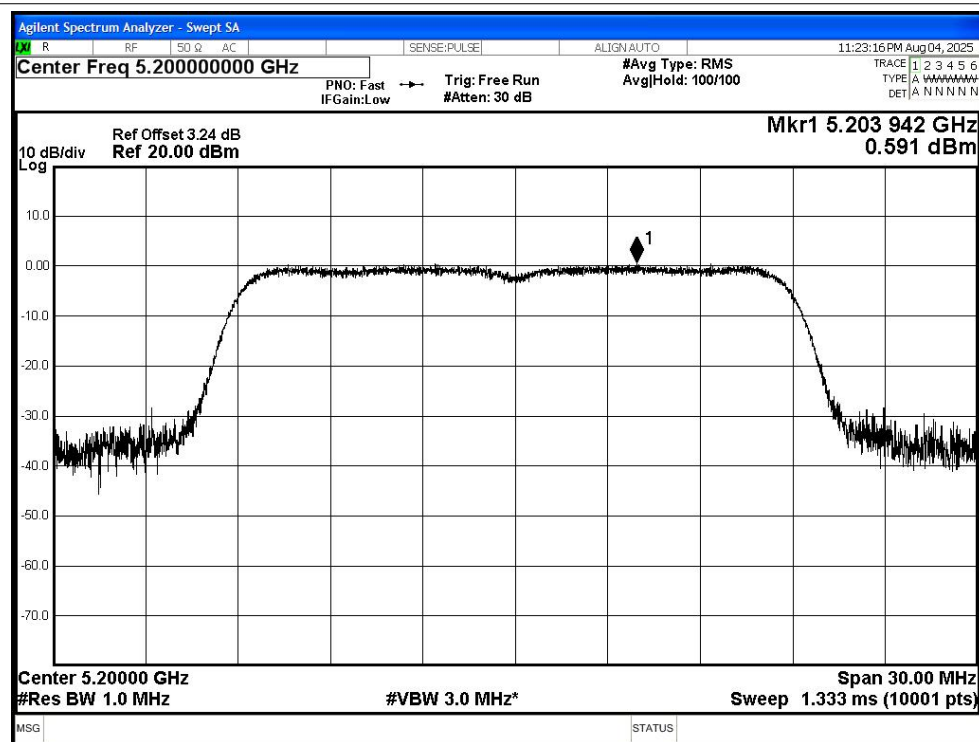
PSD NVNT n40 5230MHz Ant1



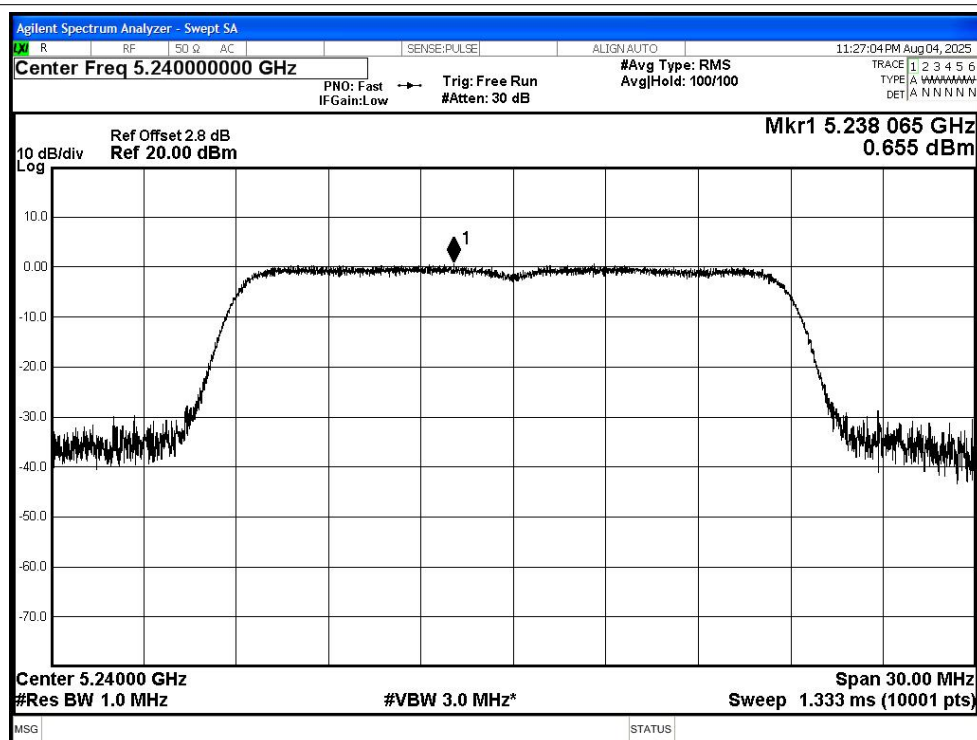
PSD NVNT ac20 5180MHz Ant1



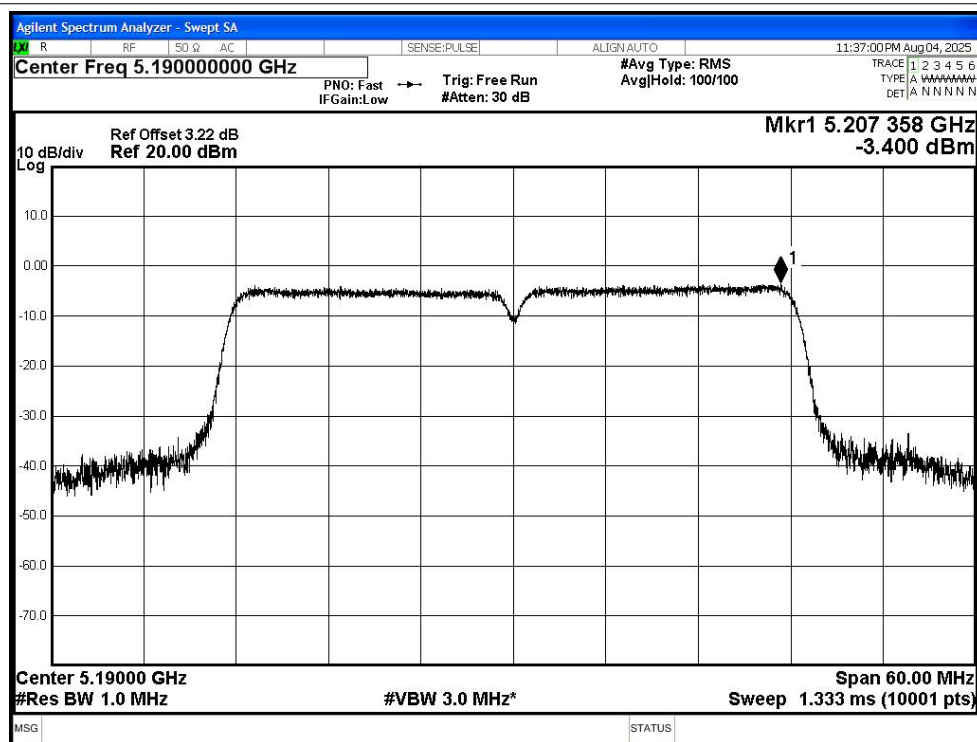
PSD NVNT ac20 5200MHz Ant1



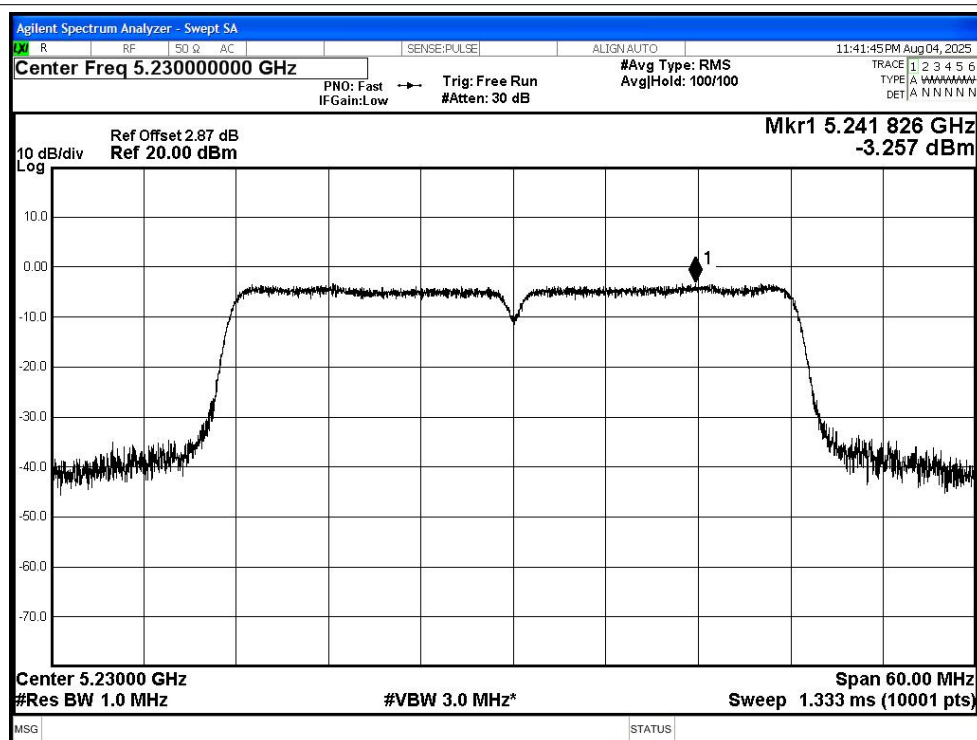
PSD NVNT ac20 5240MHz Ant1



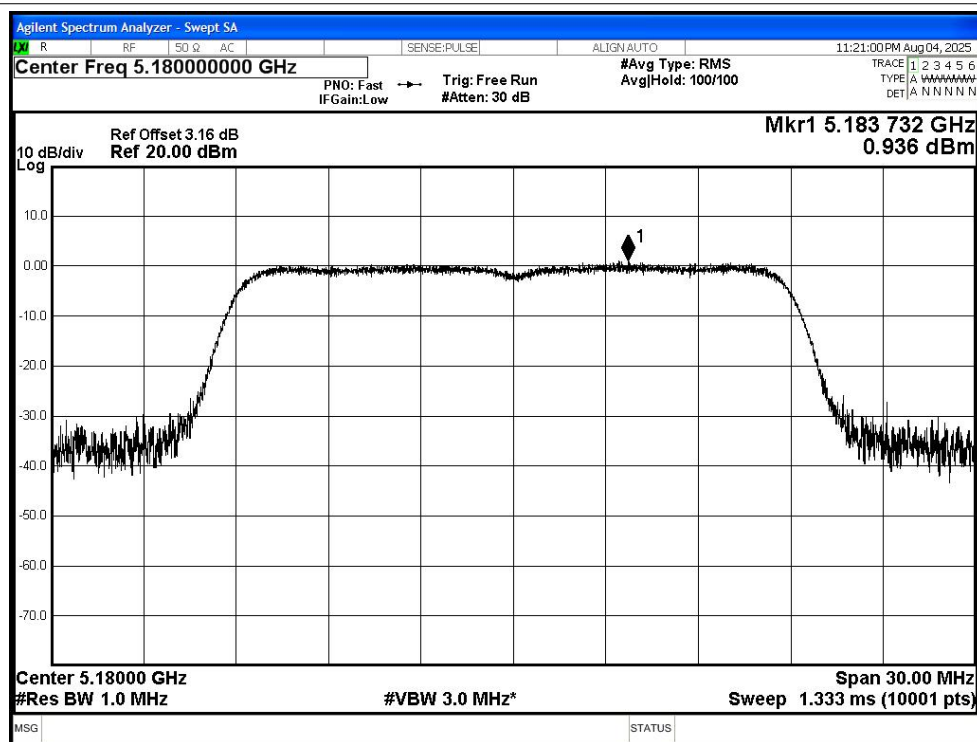
PSD NVNT ac40 5190MHz Ant1



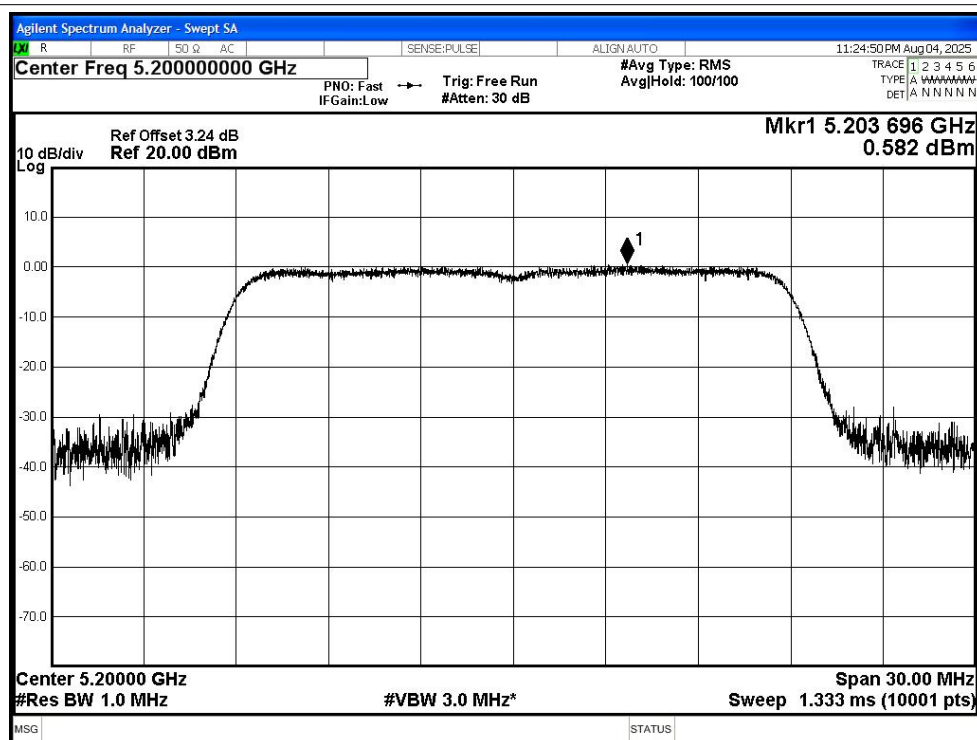
PSD NVNT ac40 5230MHz Ant1



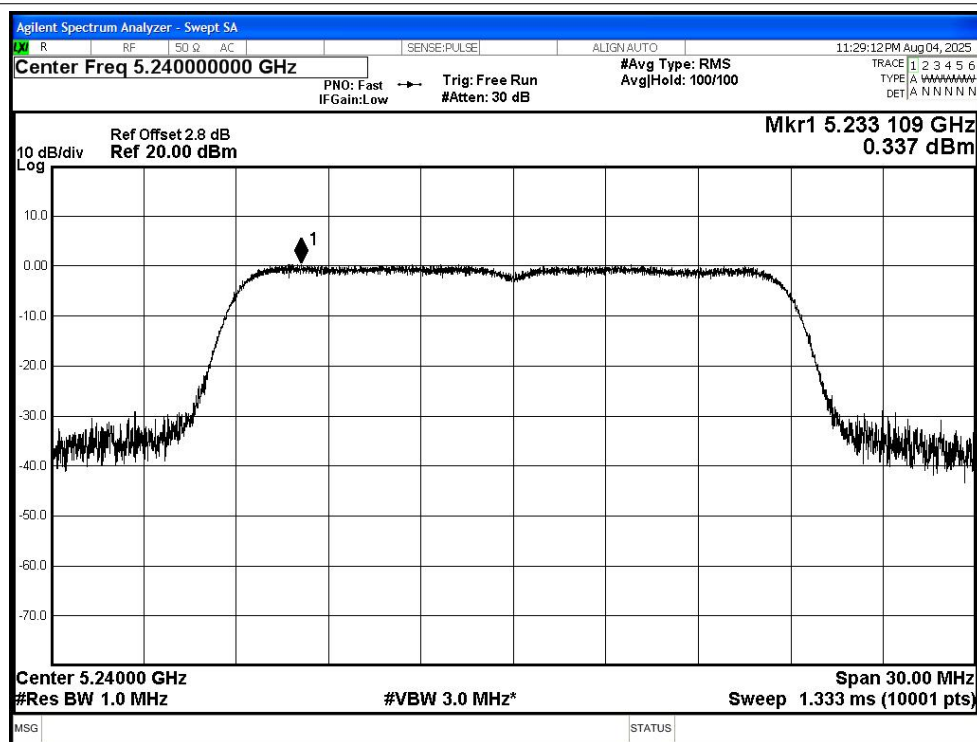
PSD NVNT ax20 5180MHz Ant1



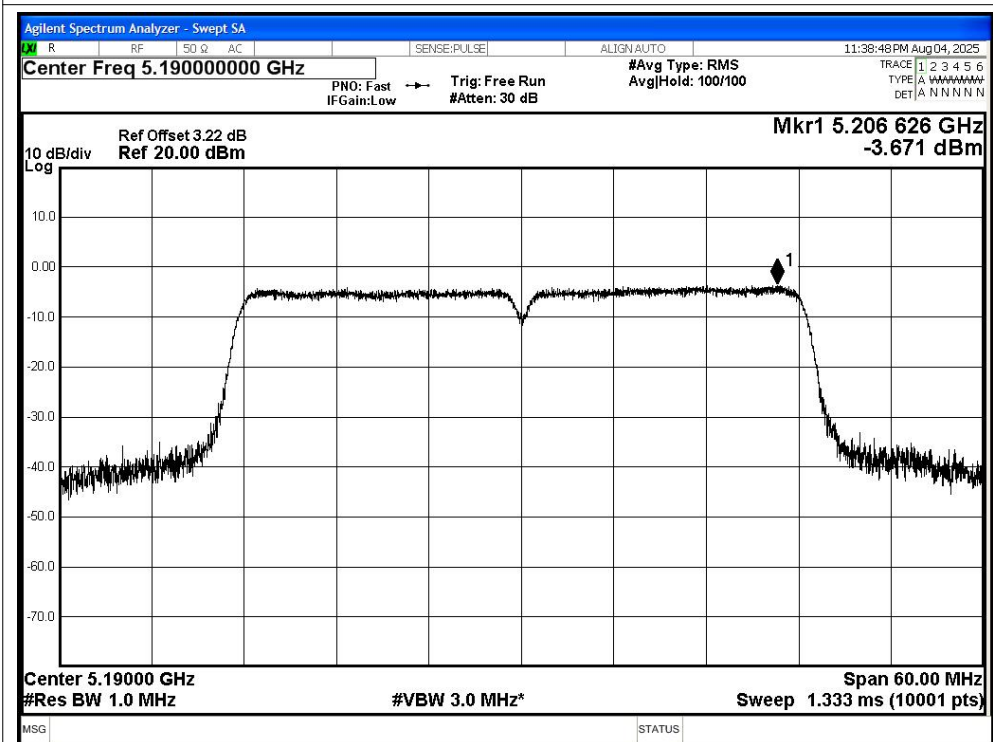
PSD NVNT ax20 5200MHz Ant1



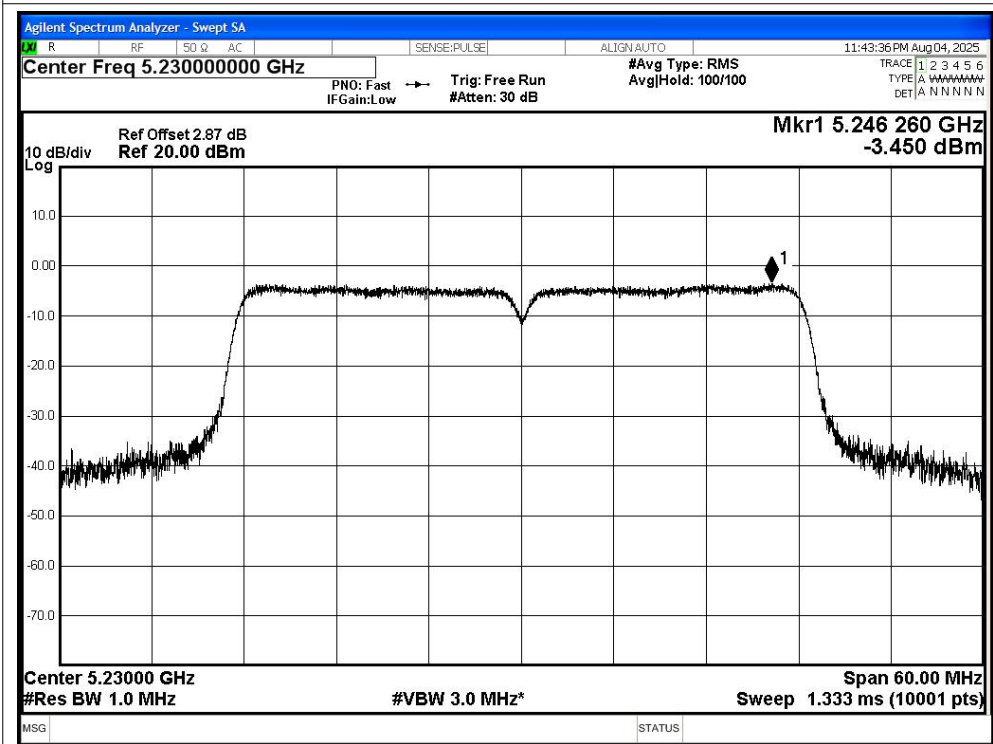
PSD NVNT ax20 5240MHz Ant1



PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz Ant1

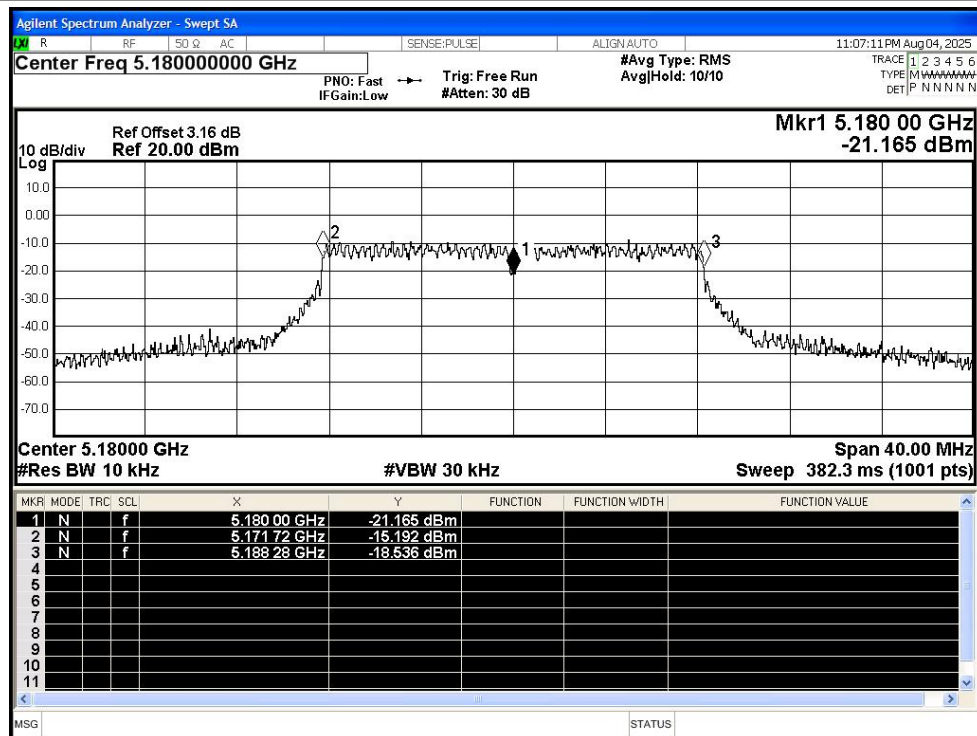


Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5200	0	0	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
NVNT	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ax20	5180	Ant1	5180	0	0	25	Pass
NVNT	ax20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	ax20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ax40	5230	Ant1	5229.96	-40000	-7.65	25	Pass

Test Graphs

Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1

