

Appendix RF test data for WIFI5G_UNII band 3

Product Name: Smart Battery Camera

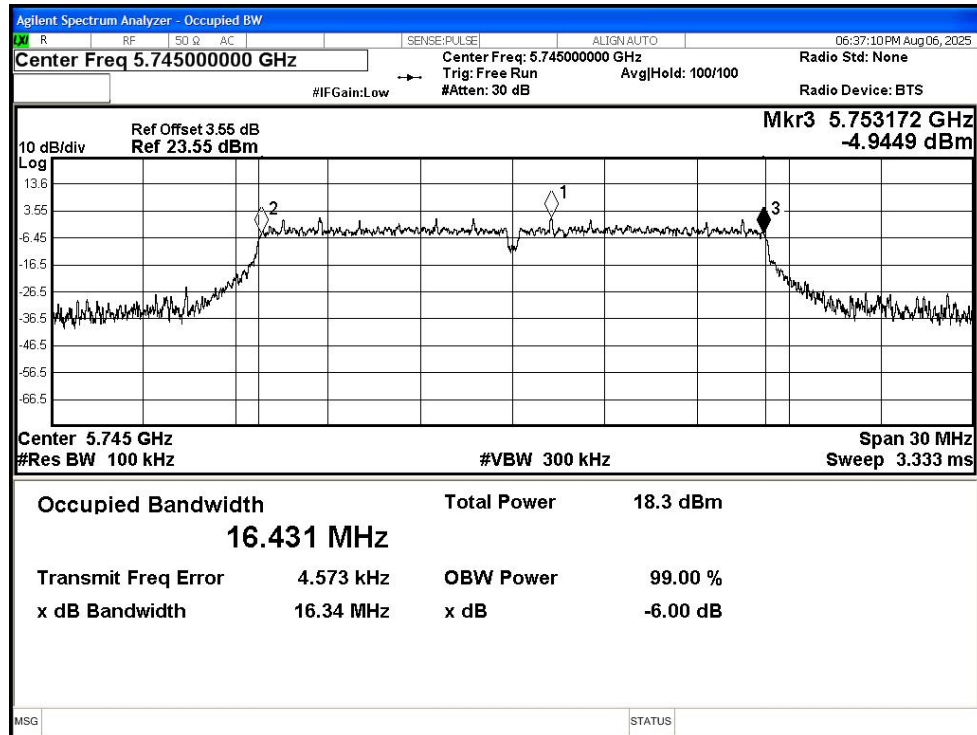
Test Model: Q12

-6dB Bandwidth

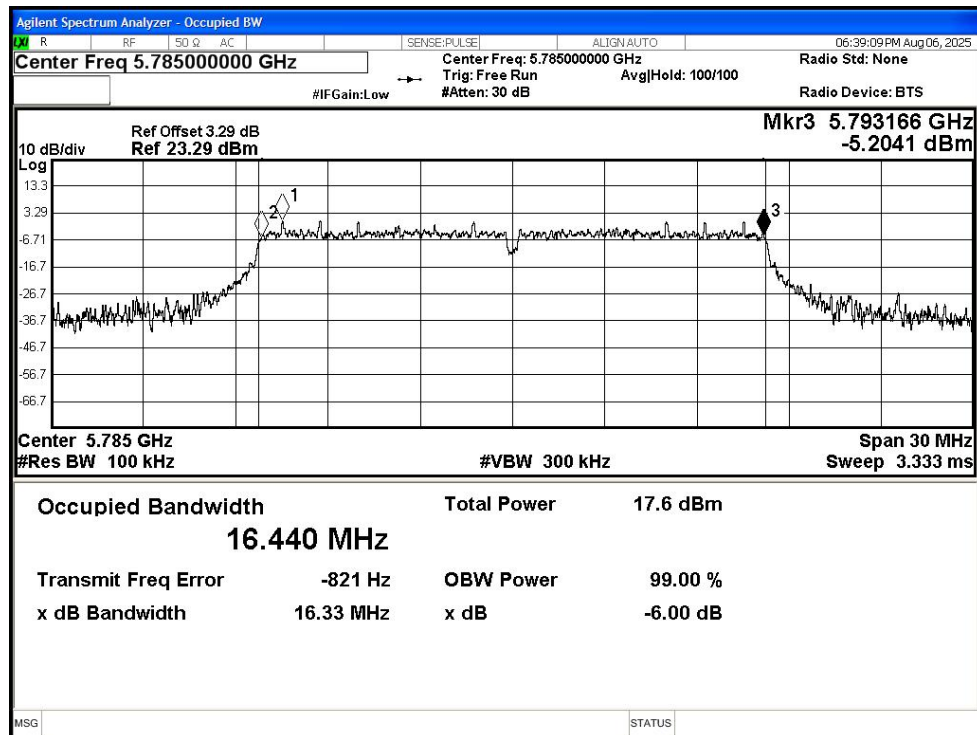
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.335	≥ 0.5	Pass
NVNT	a	5785	Ant1	16.334	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.319	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.404	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.433	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.259	≥ 0.5	Pass
NVNT	n40	5755	Ant1	36.094	≥ 0.5	Pass
NVNT	n40	5795	Ant1	36.166	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	17.407	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	17.418	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	17.549	≥ 0.5	Pass
NVNT	ac40	5755	Ant1	36.255	≥ 0.5	Pass
NVNT	ac40	5795	Ant1	36.062	≥ 0.5	Pass
NVNT	ax20	5745	Ant1	17.407	≥ 0.5	Pass
NVNT	ax20	5785	Ant1	17.355	≥ 0.5	Pass
NVNT	ax20	5825	Ant1	17.53	≥ 0.5	Pass
NVNT	ax40	5755	Ant1	36.267	≥ 0.5	Pass
NVNT	ax40	5795	Ant1	36.281	≥ 0.5	Pass

Test Graphs

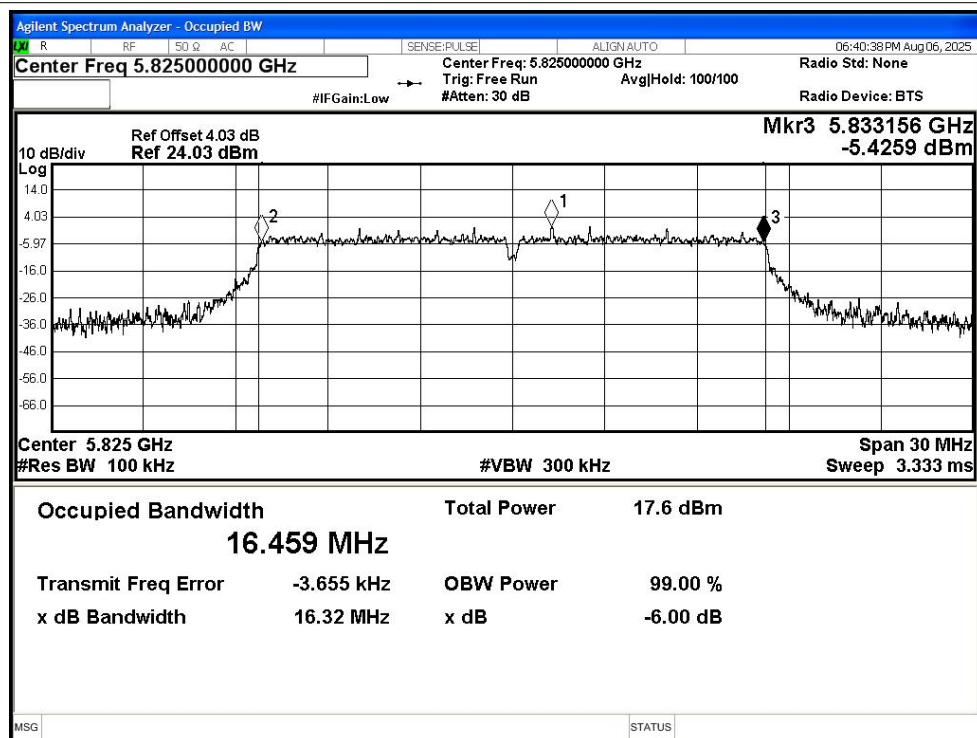
-6dB Bandwidth NVNT a 5745MHz Ant1



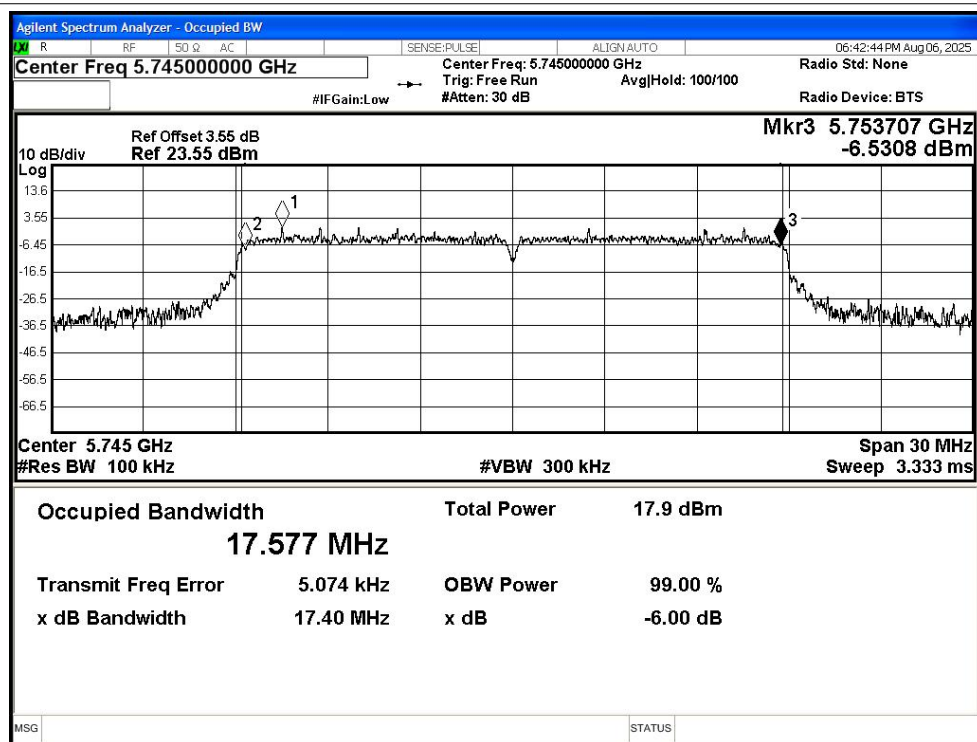
-6dB Bandwidth NVNT a 5785MHz Ant1



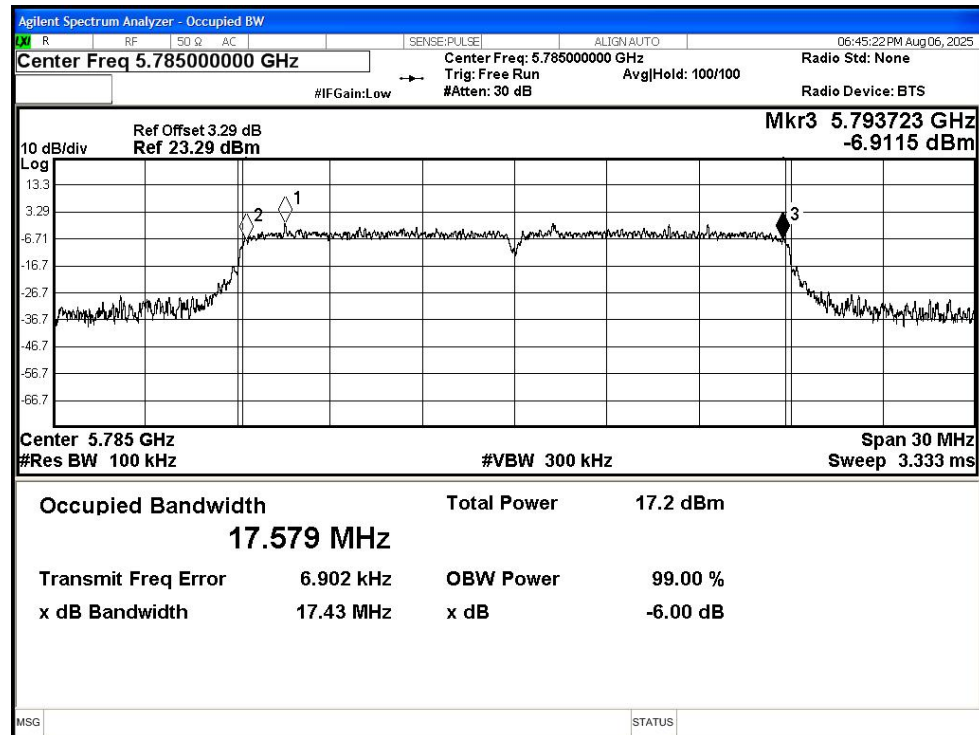
-6dB Bandwidth NVNT a 5825MHz Ant1



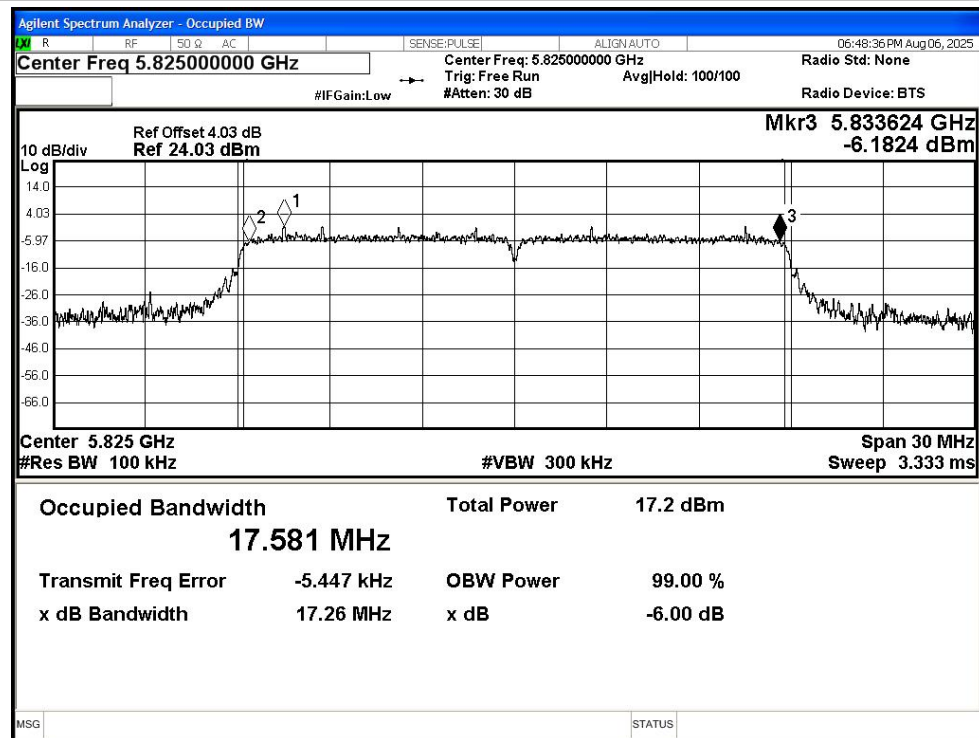
-6dB Bandwidth NVNT n20 5745MHz Ant1



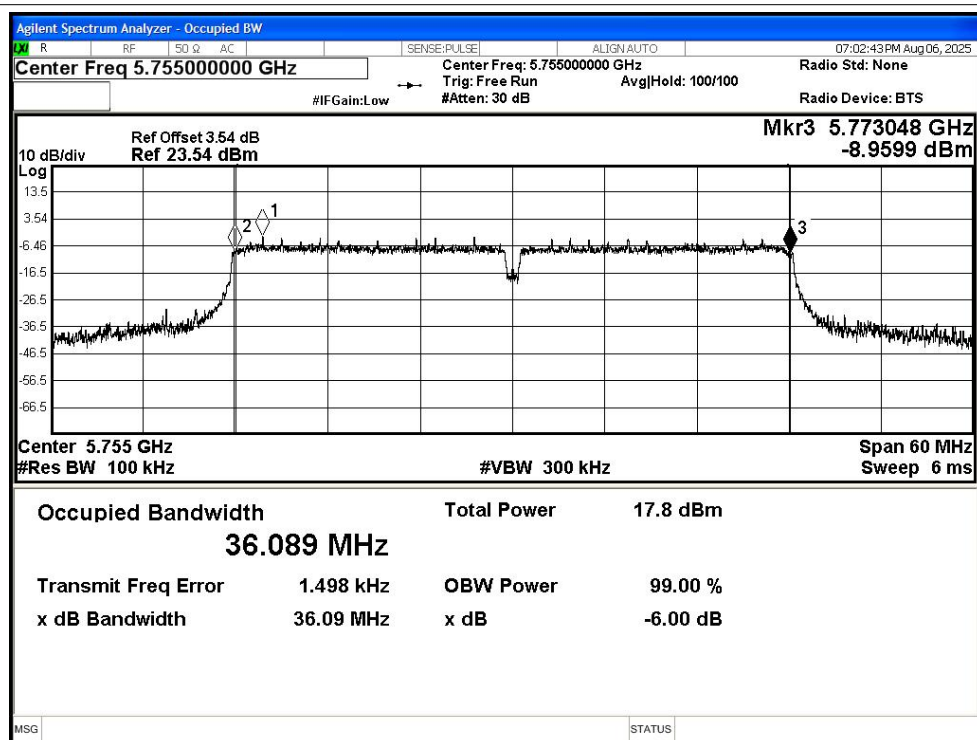
-6dB Bandwidth NVNT n20 5785MHz Ant1



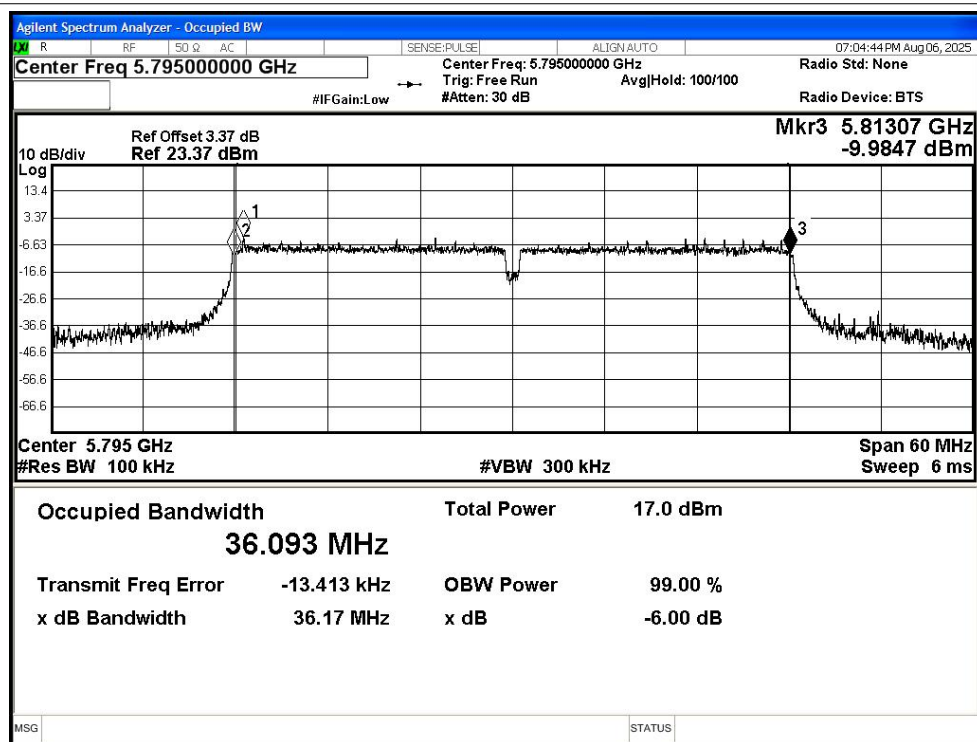
-6dB Bandwidth NVNT n20 5825MHz Ant1



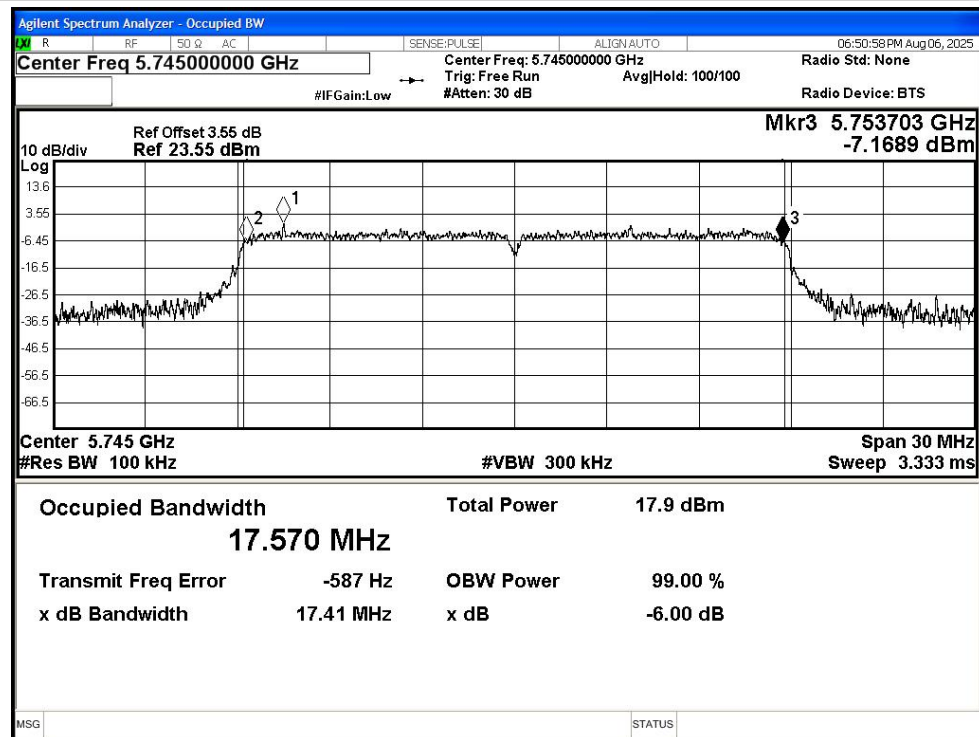
-6dB Bandwidth NVNT n40 5755MHz Ant1



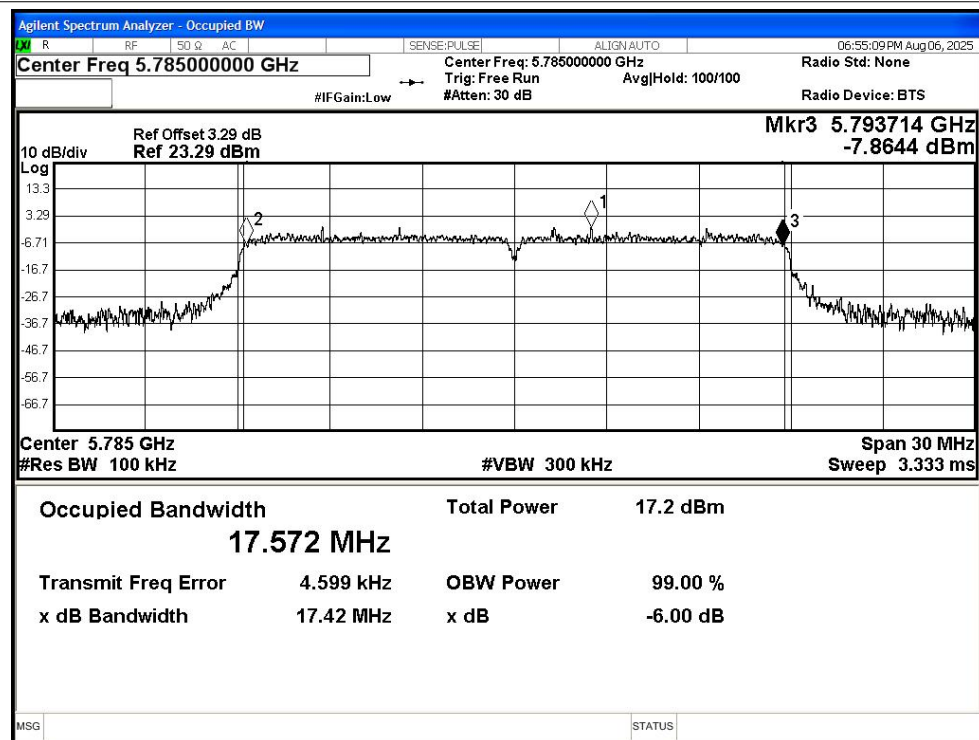
-6dB Bandwidth NVNT n40 5795MHz Ant1



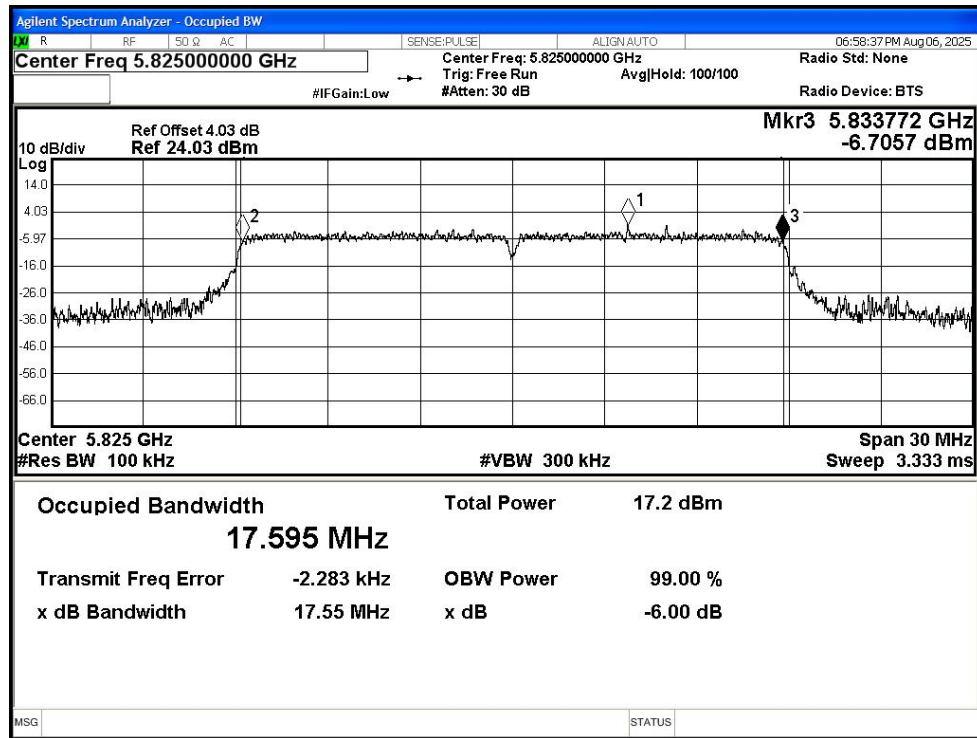
-6dB Bandwidth NVNT ac20 5745MHz Ant1



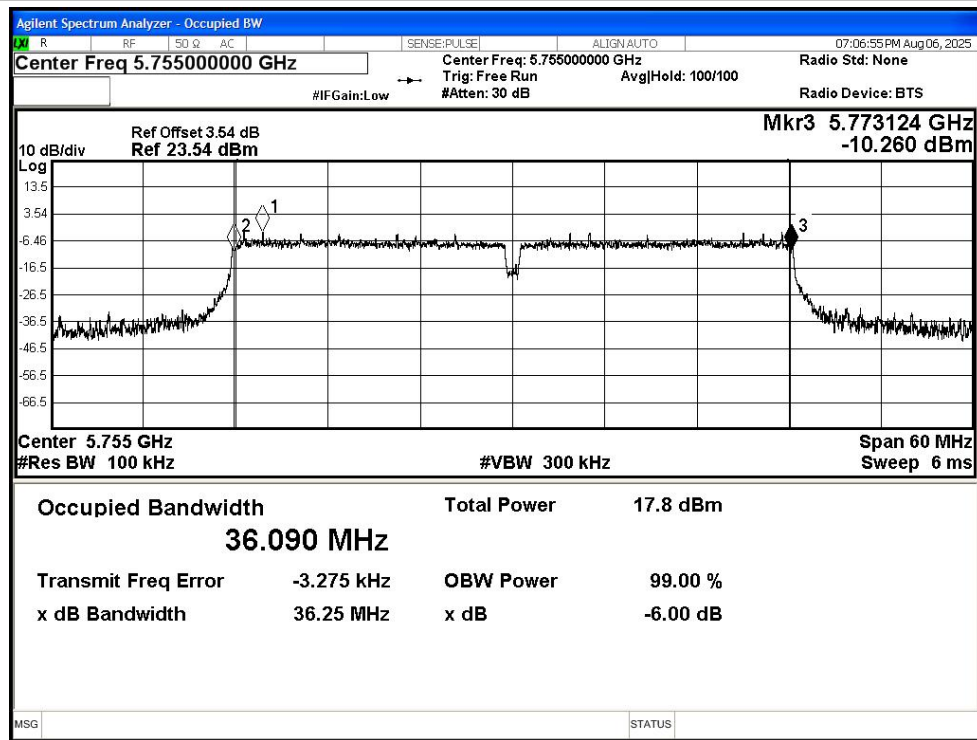
-6dB Bandwidth NVNT ac20 5785MHz Ant1



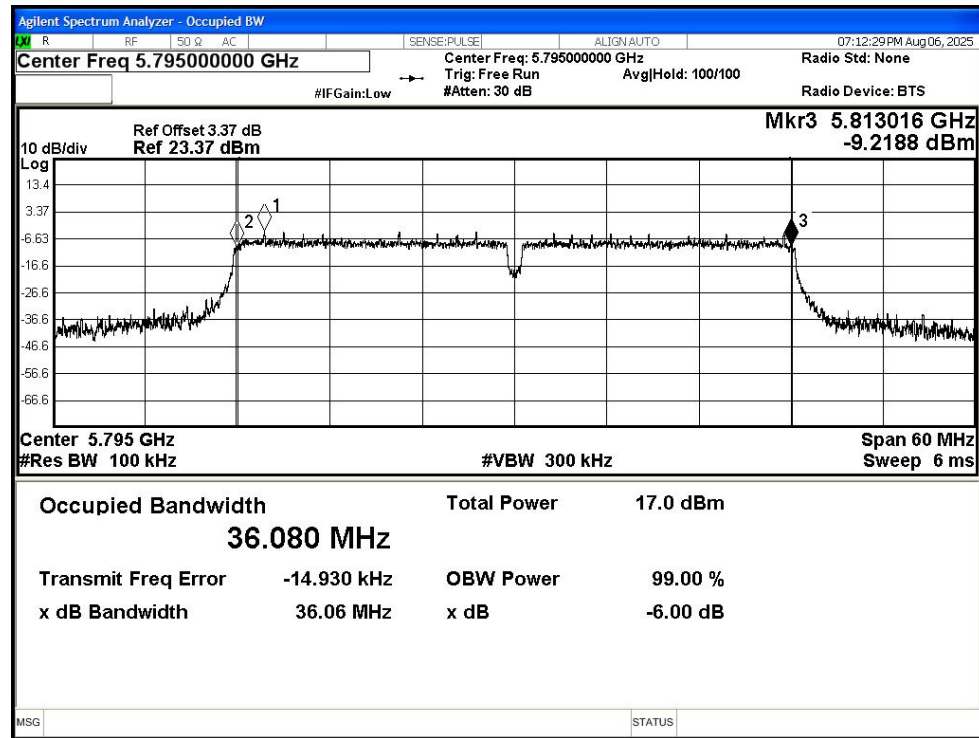
-6dB Bandwidth NVNT ac20 5825MHz Ant1



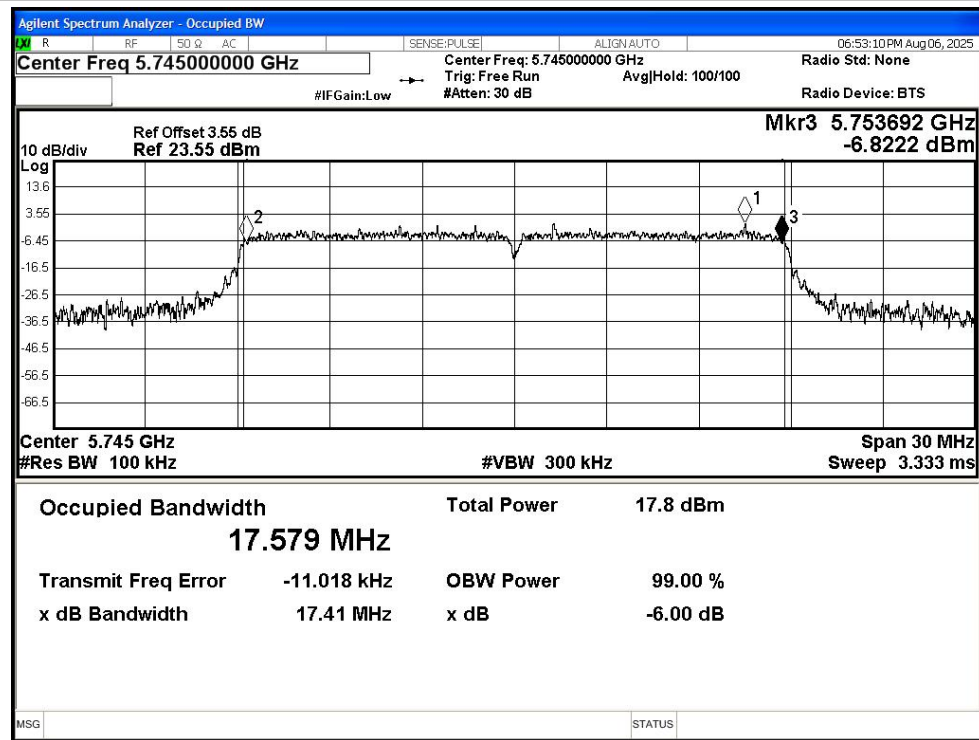
-6dB Bandwidth NVNT ac40 5755MHz Ant1



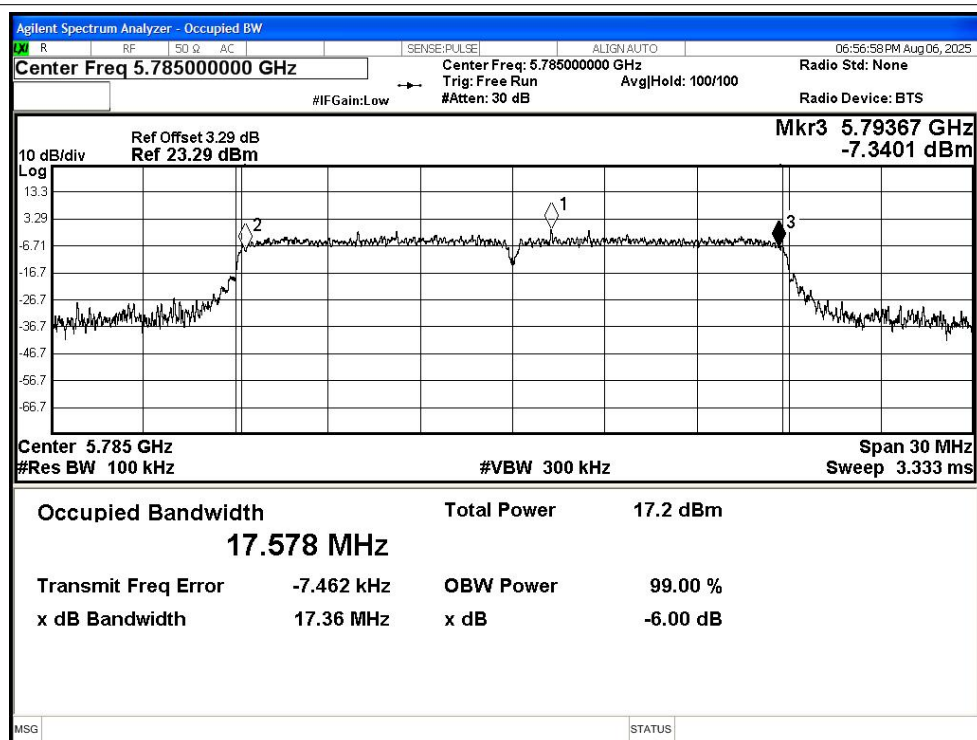
-6dB Bandwidth NVNT ac40 5795MHz Ant1



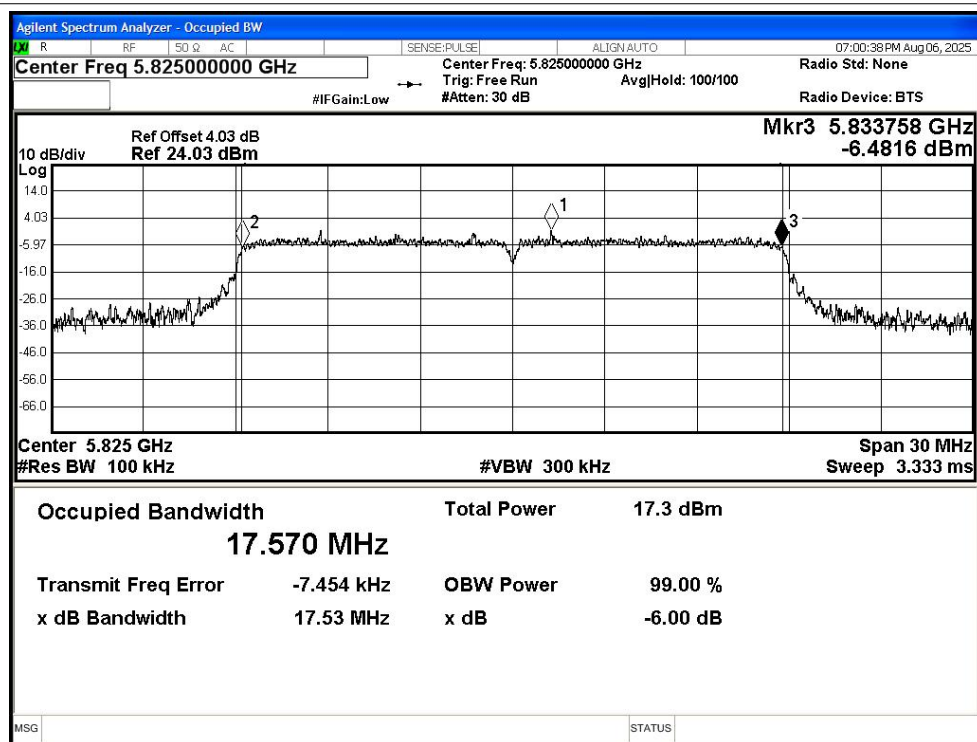
-6dB Bandwidth NVNT ax20 5745MHz Ant1



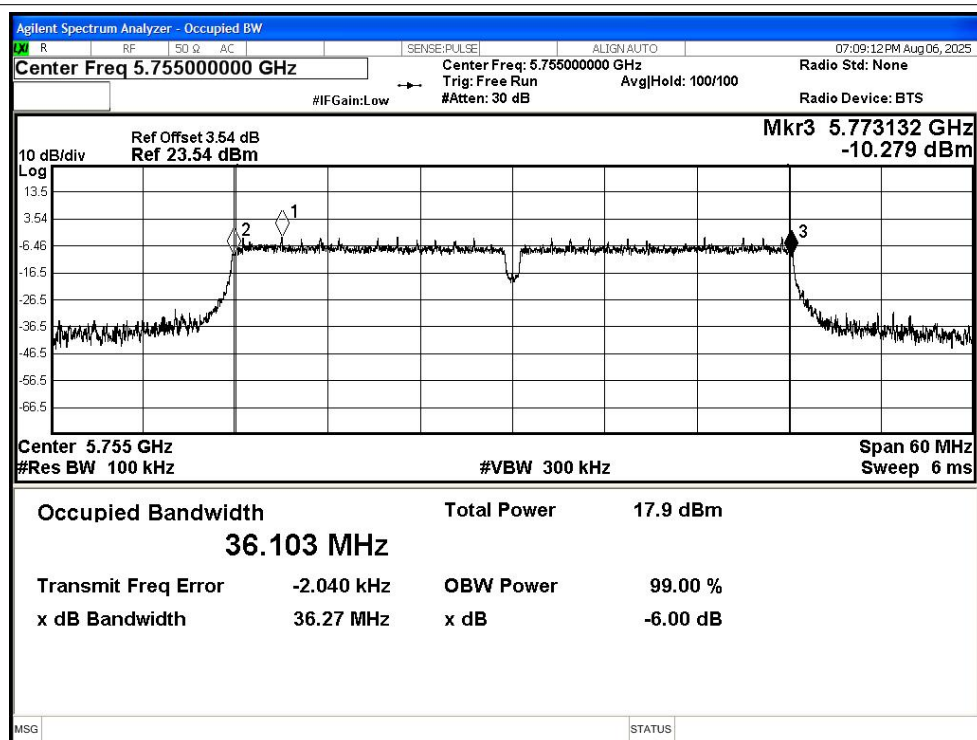
-6dB Bandwidth NVNT ax20 5785MHz Ant1



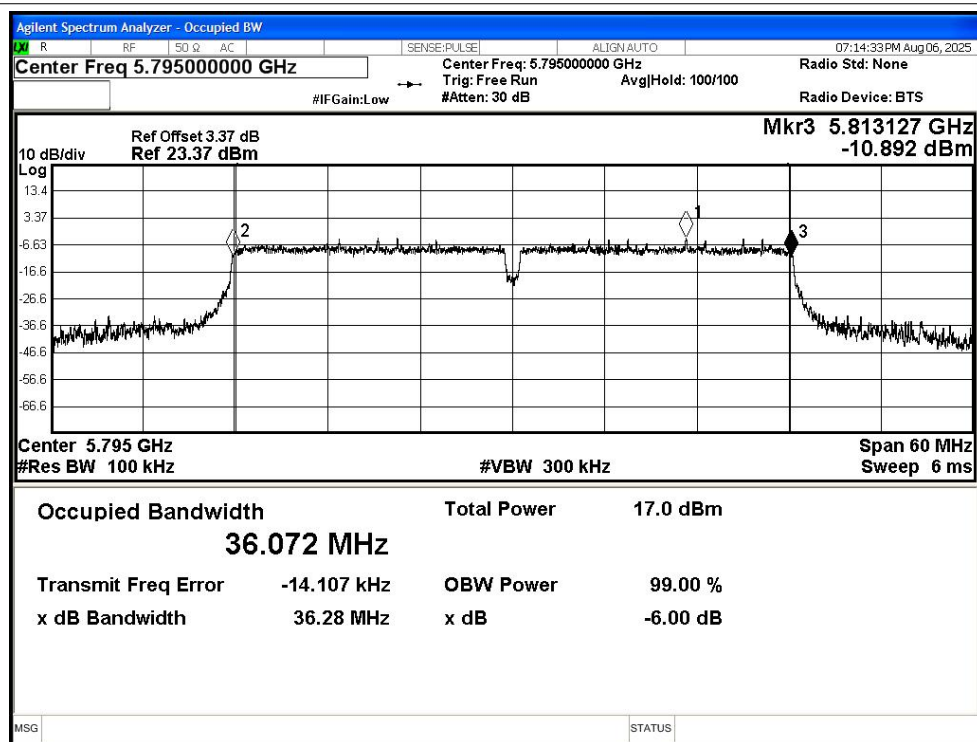
-6dB Bandwidth NVNT ax20 5825MHz Ant1



-6dB Bandwidth NVNT ax40 5755MHz Ant1



-6dB Bandwidth NVNT ax40 5795MHz Ant1



Maximum Conducted Output Power

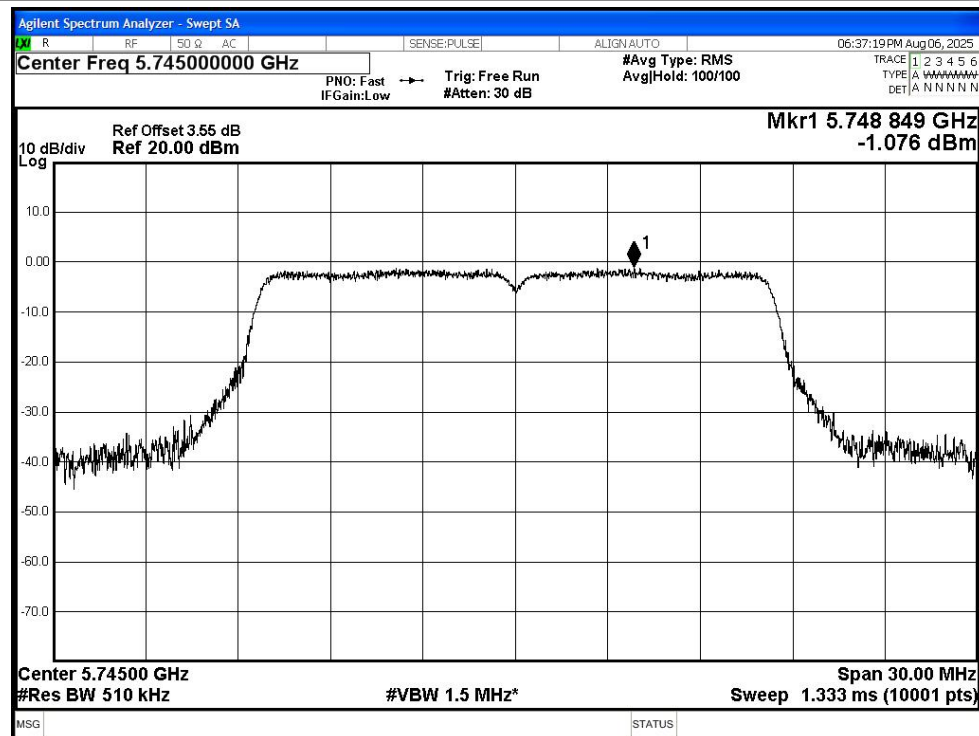
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.25	0.24	12.49	30	Pass
NVNT	a	5785	Ant1	11.54	0.24	11.78	30	Pass
NVNT	a	5825	Ant1	11.58	0.24	11.82	30	Pass
NVNT	n20	5745	Ant1	11.67	0.12	11.79	30	Pass
NVNT	n20	5785	Ant1	11.03	0.12	11.15	30	Pass
NVNT	n20	5825	Ant1	11.06	0.12	11.18	30	Pass
NVNT	n40	5755	Ant1	11.23	0.24	11.47	30	Pass
NVNT	n40	5795	Ant1	10.5	0.24	10.74	30	Pass
NVNT	ac20	5745	Ant1	11.69	0.12	11.81	30	Pass
NVNT	ac20	5785	Ant1	10.94	0.12	11.06	30	Pass
NVNT	ac20	5825	Ant1	11.03	0.12	11.15	30	Pass
NVNT	ac40	5755	Ant1	11.26	0.24	11.5	30	Pass
NVNT	ac40	5795	Ant1	10.4	0.24	10.64	30	Pass
NVNT	ax20	5745	Ant1	11.64	0.12	11.76	30	Pass
NVNT	ax20	5785	Ant1	11.01	0.12	11.13	30	Pass
NVNT	ax20	5825	Ant1	11.1	0.12	11.22	30	Pass
NVNT	ax40	5755	Ant1	11.21	0.24	11.45	30	Pass
NVNT	ax40	5795	Ant1	10.42	0.24	10.66	30	Pass

Maximum Power Spectral Density Level

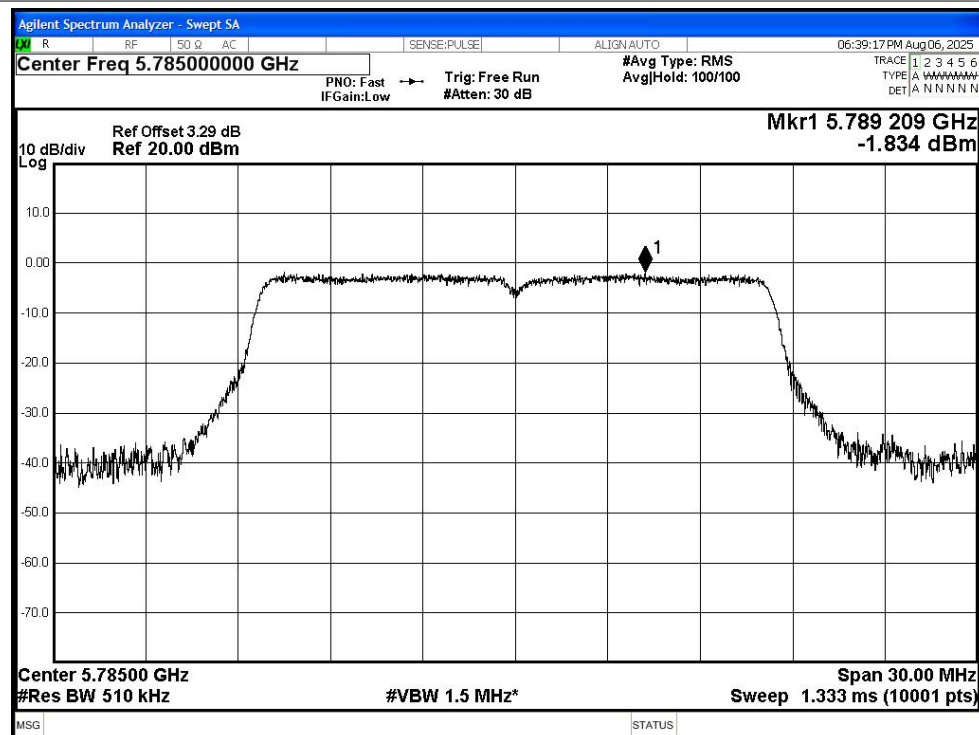
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-1.08	0.24	-0.84	30	Pass
NVNT	a	5785	Ant1	-1.83	0.24	-1.59	30	Pass
NVNT	a	5825	Ant1	-1.9	0.24	-1.66	30	Pass
NVNT	n20	5745	Ant1	-2.12	0.12	-2	30	Pass
NVNT	n20	5785	Ant1	-2.97	0.12	-2.85	30	Pass
NVNT	n20	5825	Ant1	-2.72	0.12	-2.6	30	Pass
NVNT	n40	5755	Ant1	-5.55	0.24	-5.31	30	Pass
NVNT	n40	5795	Ant1	-6.32	0.24	-6.08	30	Pass
NVNT	ac20	5745	Ant1	-2.18	0.12	-2.06	30	Pass
NVNT	ac20	5785	Ant1	-2.94	0.12	-2.82	30	Pass
NVNT	ac20	5825	Ant1	-2.86	0.12	-2.74	30	Pass
NVNT	ac40	5755	Ant1	-5.25	0.24	-5.01	30	Pass
NVNT	ac40	5795	Ant1	-6.39	0.24	-6.15	30	Pass
NVNT	ax20	5745	Ant1	-2.35	0.12	-2.23	30	Pass
NVNT	ax20	5785	Ant1	-2.78	0.12	-2.66	30	Pass
NVNT	ax20	5825	Ant1	-2.74	0.12	-2.62	30	Pass
NVNT	ax40	5755	Ant1	-5.81	0.24	-5.57	30	Pass
NVNT	ax40	5795	Ant1	-6.19	0.24	-5.95	30	Pass

Test Graphs

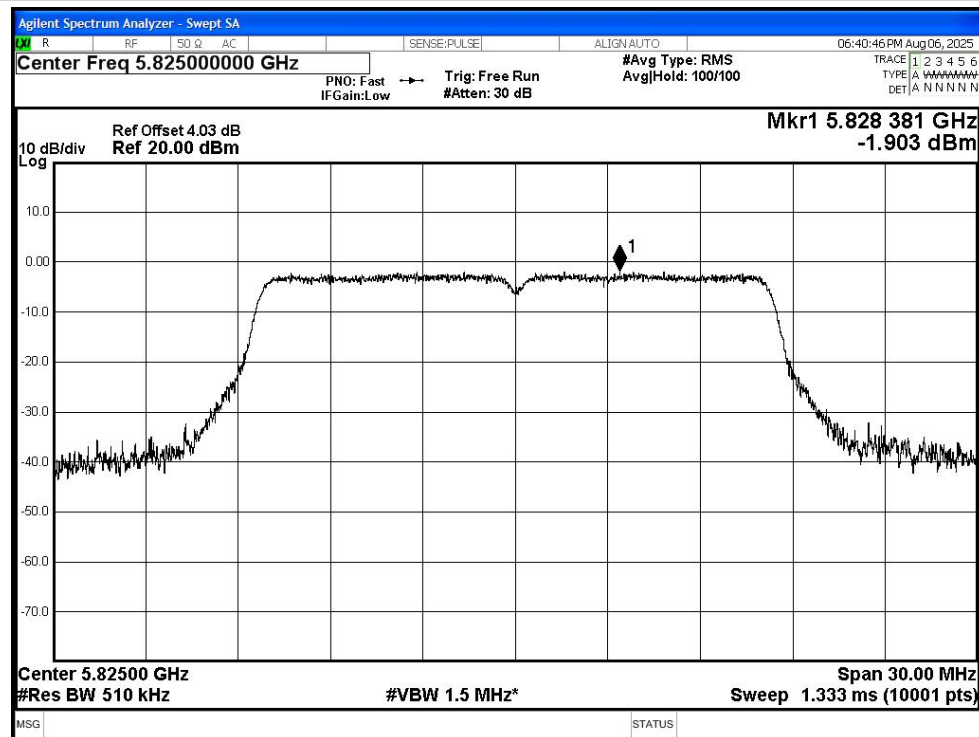
PSD NVNT a 5745MHz Ant1



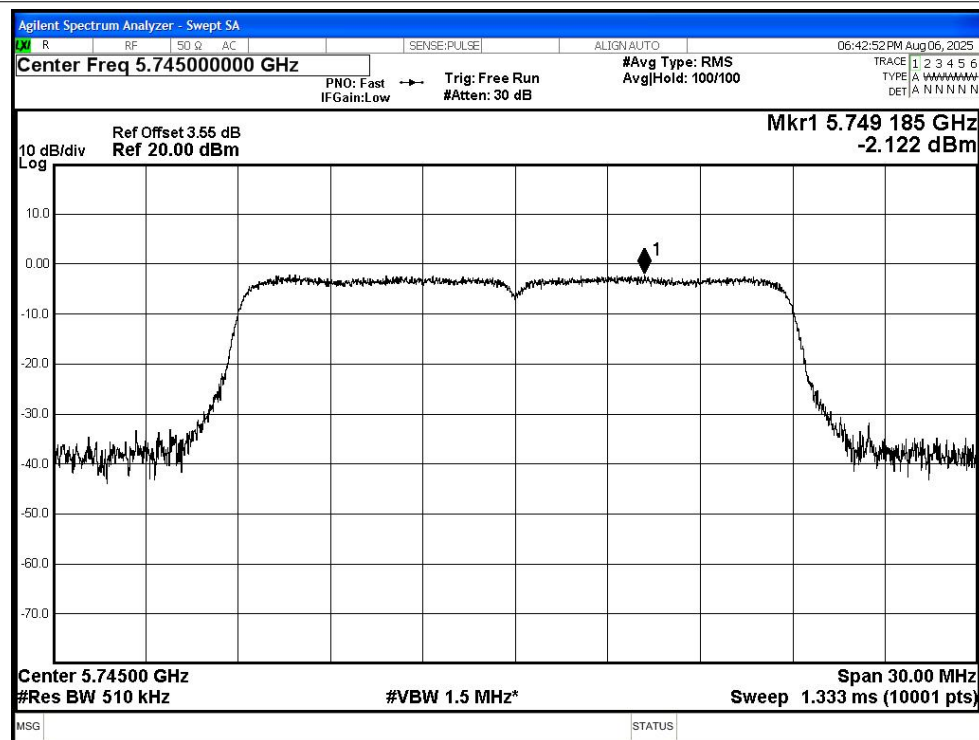
PSD NVNT a 5785MHz Ant1

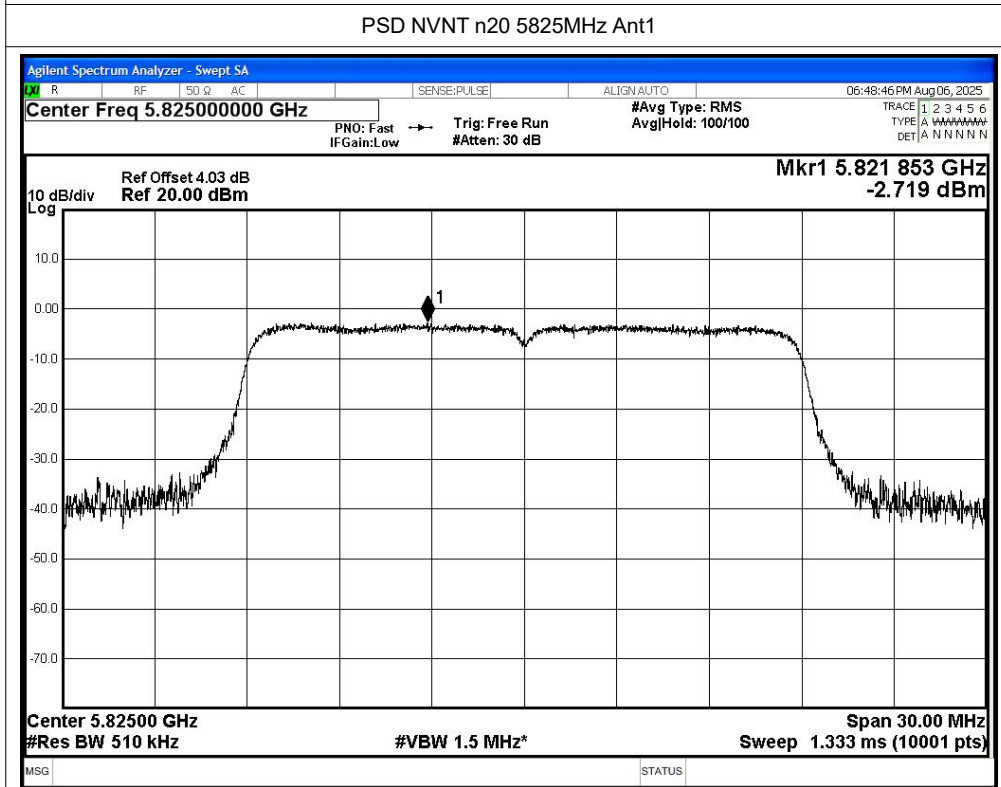
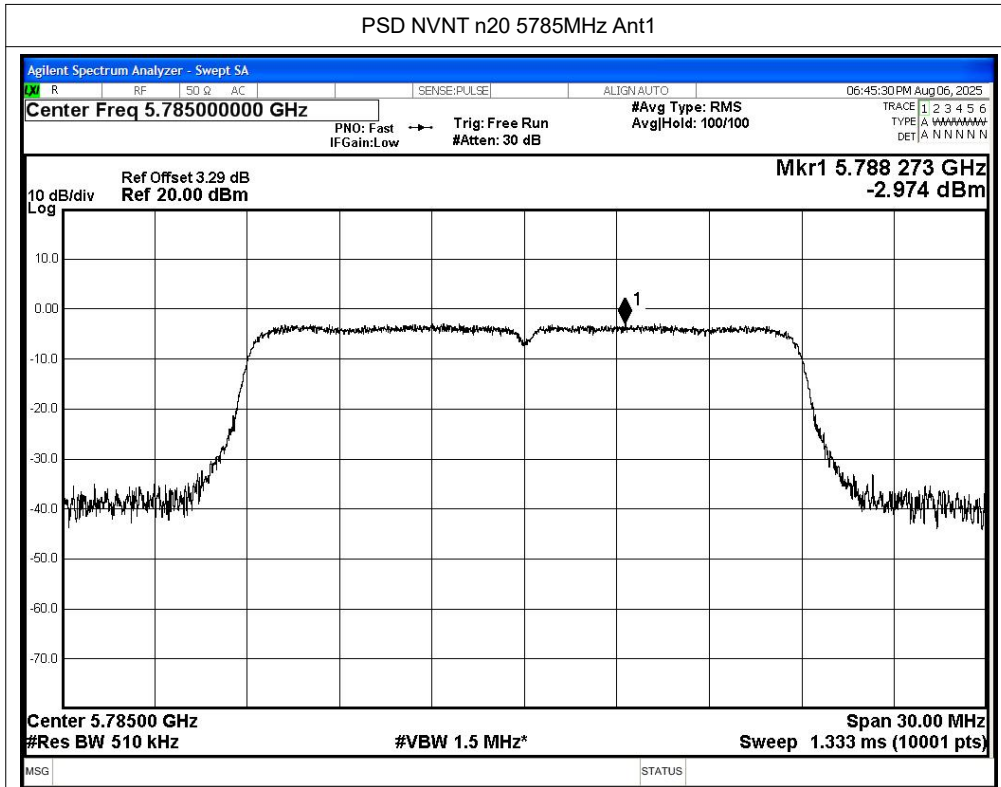


PSD NVNT a 5825MHz Ant1

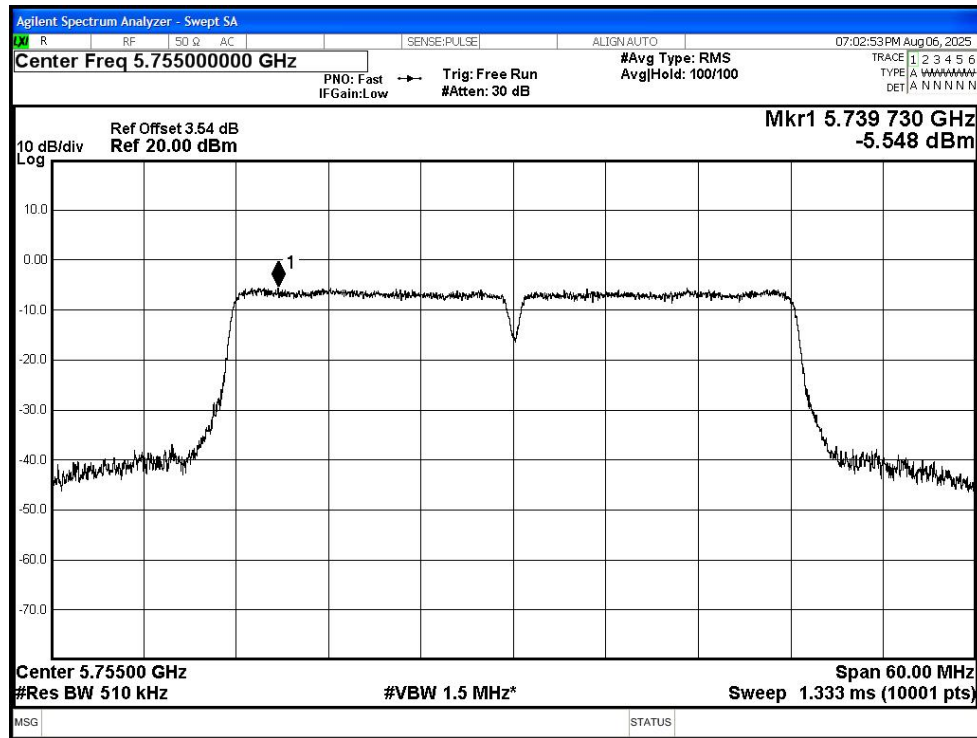


PSD NVNT n20 5745MHz Ant1

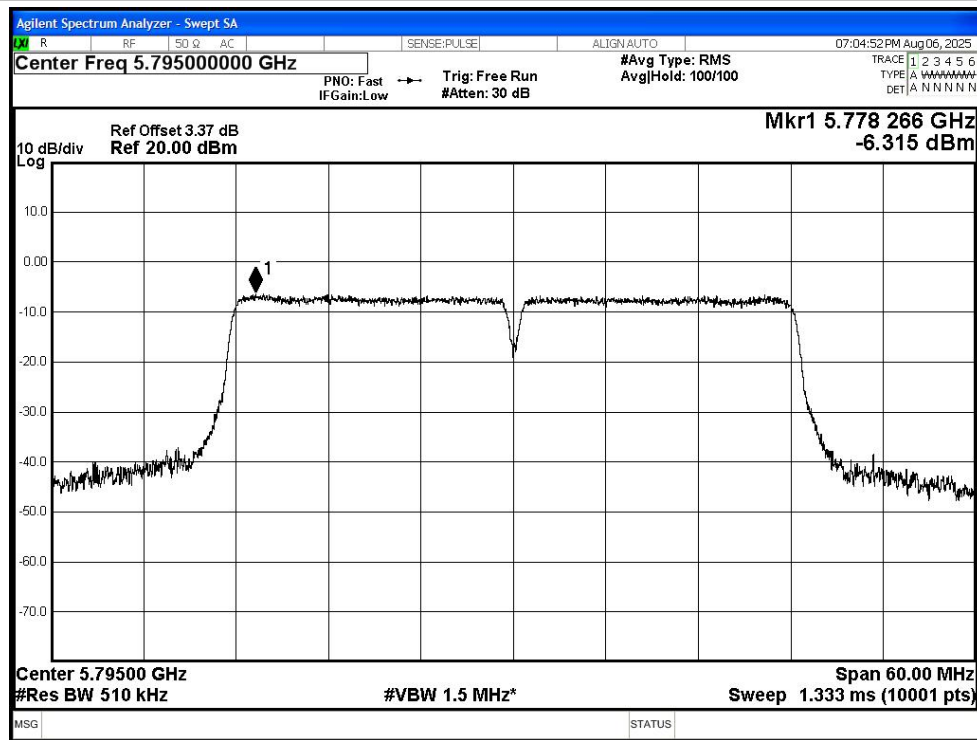




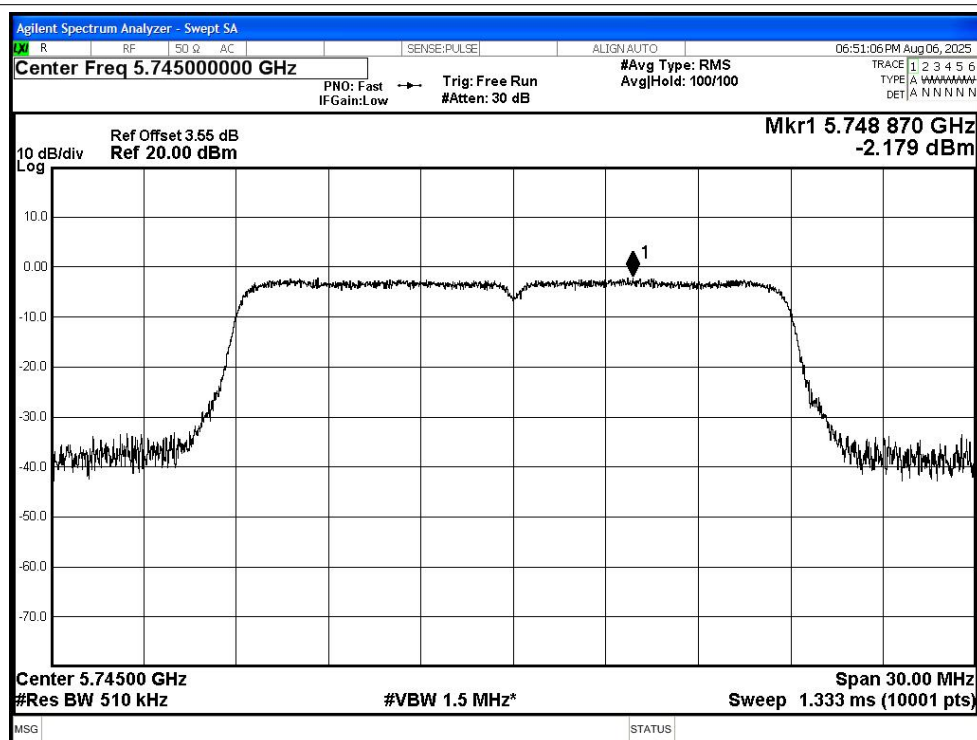
PSD NVNT n40 5755MHz Ant1



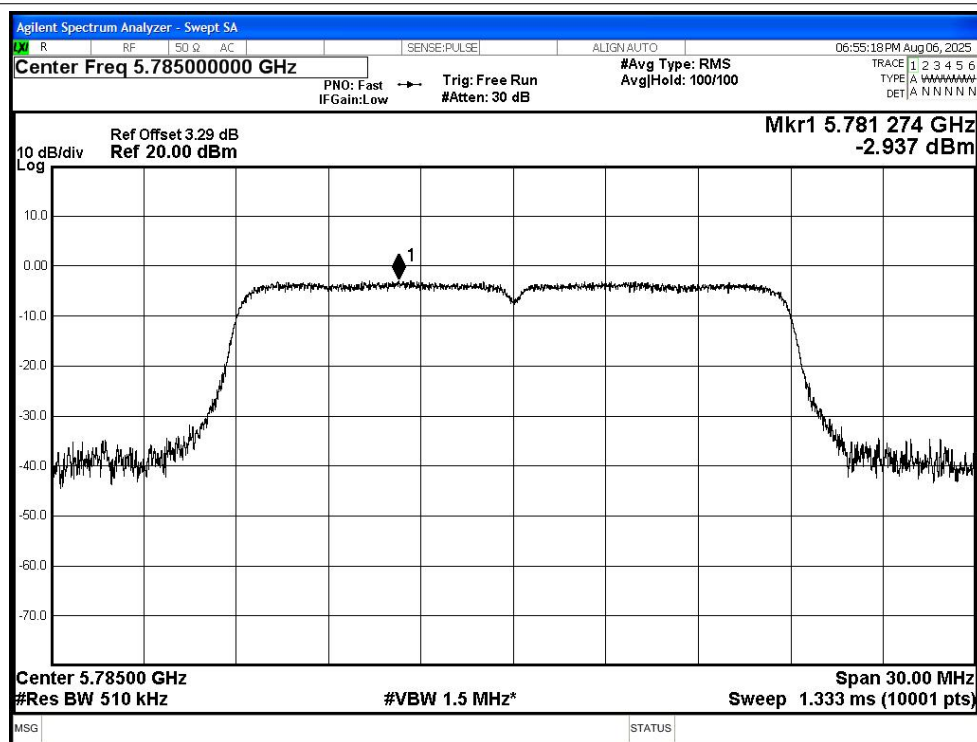
PSD NVNT n40 5795MHz Ant1



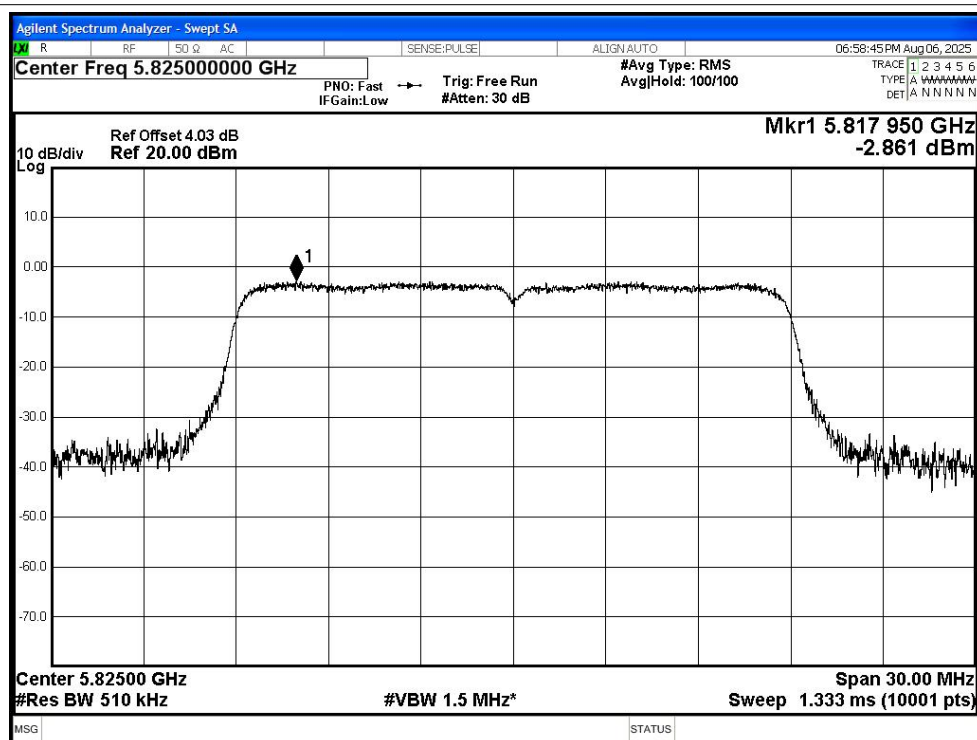
PSD NVNT ac20 5745MHz Ant1



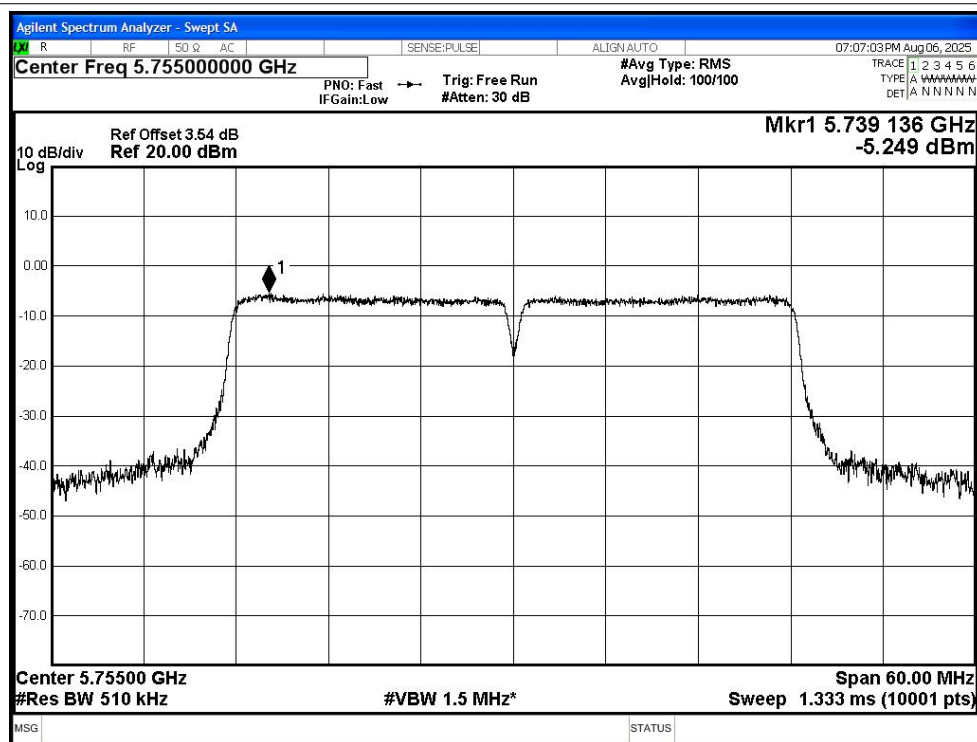
PSD NVNT ac20 5785MHz Ant1



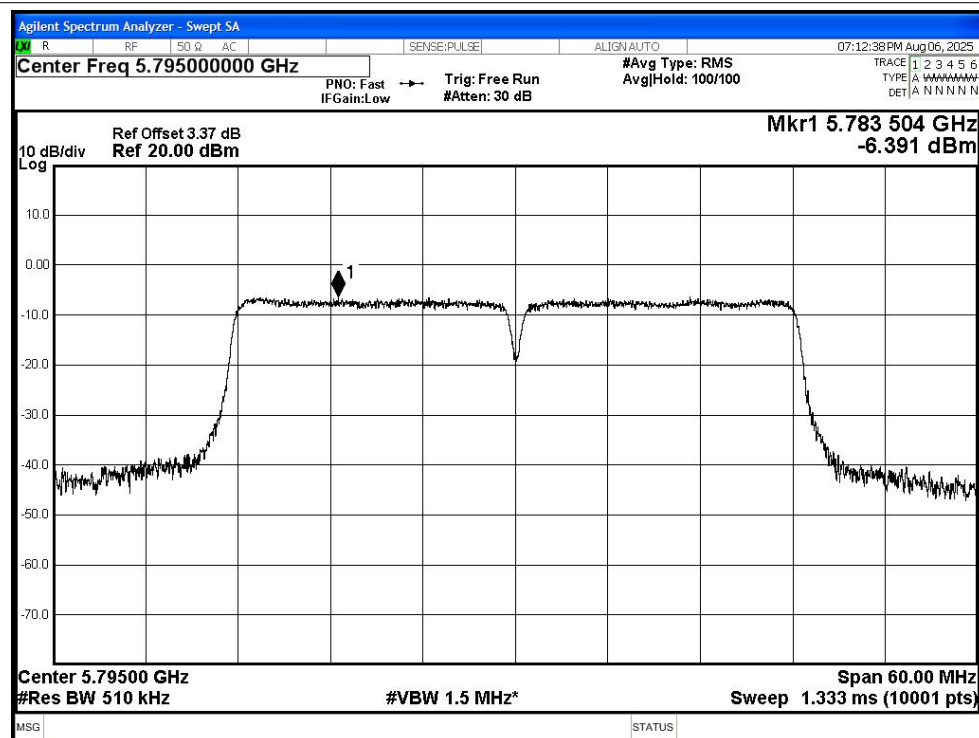
PSD NVNT ac20 5825MHz Ant1



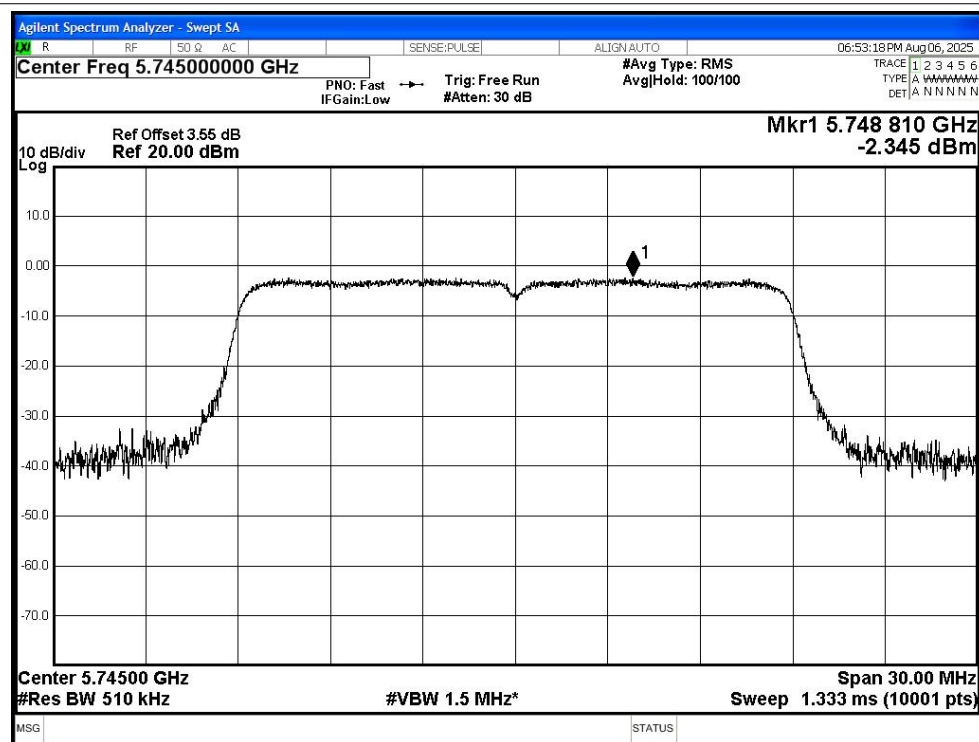
PSD NVNT ac40 5755MHz Ant1



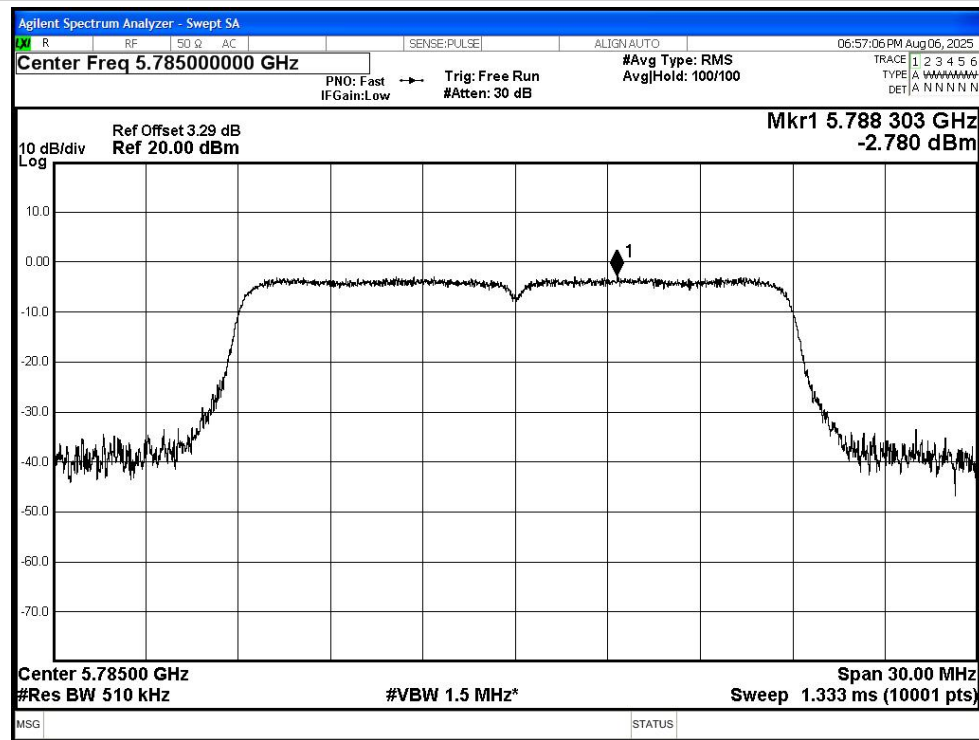
PSD NVNT ac40 5795MHz Ant1



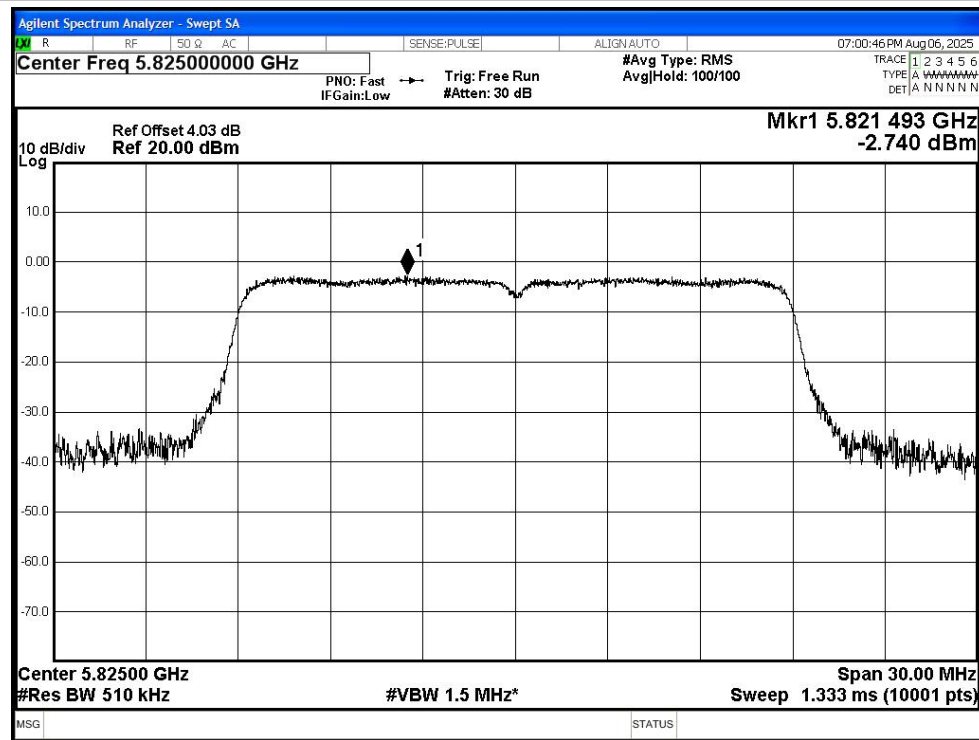
PSD NVNT ax20 5745MHz Ant1



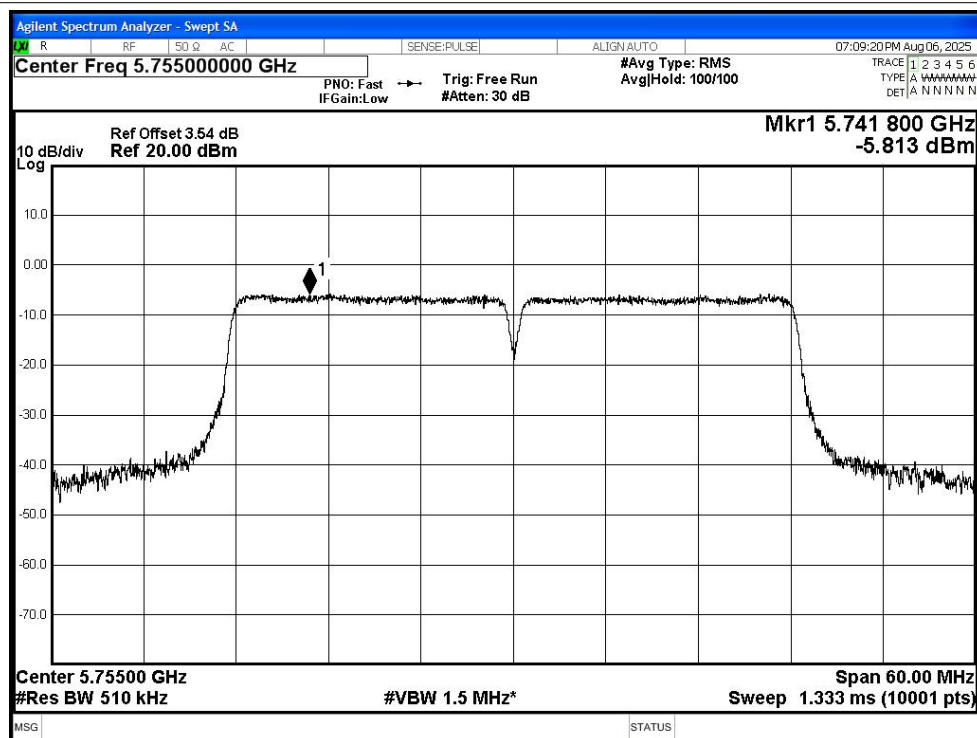
PSD NVNT ax20 5785MHz Ant1



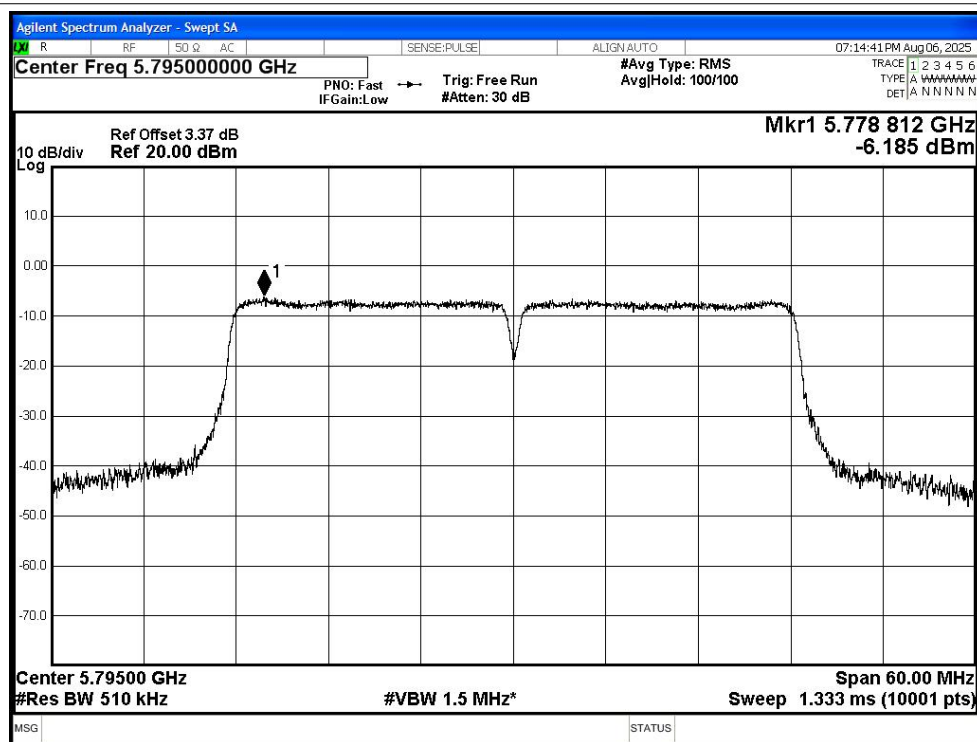
PSD NVNT ax20 5825MHz Ant1



PSD NVNT ax40 5755MHz Ant1



PSD NVNT ax40 5795MHz Ant1

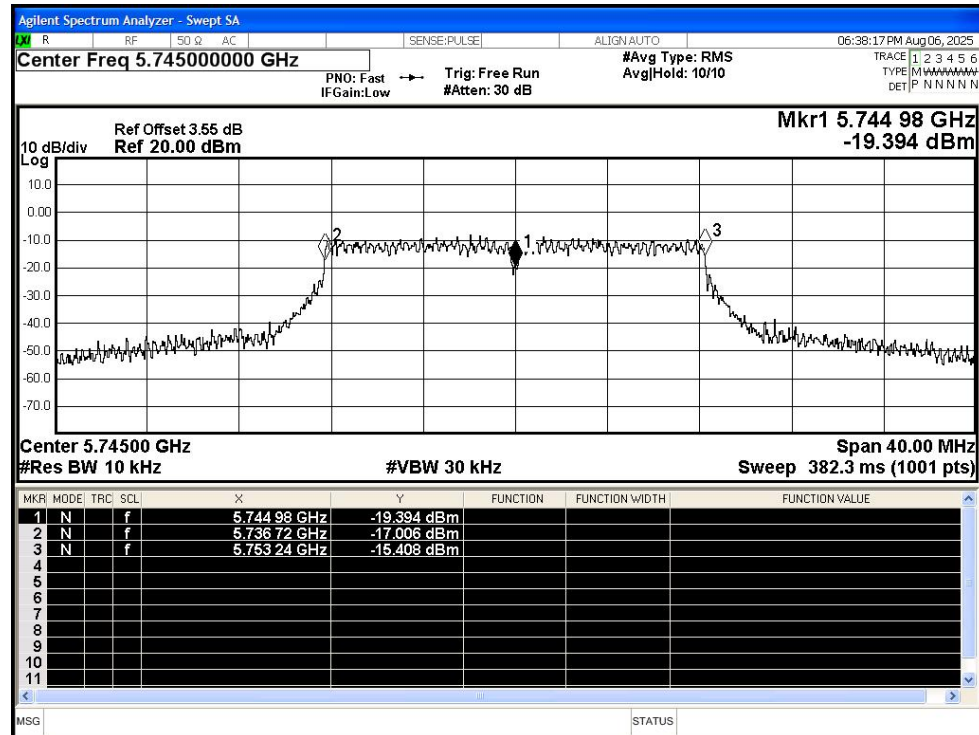


Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	a	5785	Ant1	5785	0	0	25	Pass
NVNT	a	5825	Ant1	5825	0	0	25	Pass
NVNT	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant1	5785	0	0	25	Pass
NVNT	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
NVNT	n40	5755	Ant1	5755	0	0	25	Pass
NVNT	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
NVNT	ac20	5745	Ant1	5745	0	0	25	Pass
NVNT	ac20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NVNT	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
NVNT	ac40	5755	Ant1	5755	0	0	25	Pass
NVNT	ac40	5795	Ant1	5795	0	0	25	Pass
NVNT	ax20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	ax20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NVNT	ax20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
NVNT	ax40	5755	Ant1	5755	0	0	25	Pass
NVNT	ax40	5795	Ant1	5795	0	0	25	Pass

Test Graphs

Freq. Stability NVNT a 5745MHz Ant1



Freq. Stability NVNT a 5785MHz Ant1

