

Appendix for 15.407

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Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	95.41	0.2	0.72
		5785		95.41	0.2	0.72
		5825		95.41	0.2	0.72
	n20	5745		98.72	0	0.2
		5785		98.72	0	0.2
		5825		98.7	0	0.2
	n40	5755		97.24	0.12	0.4
		5795		97.24	0.12	0.4

Test Graphs

Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1



Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



Maximum Conducted Output Power

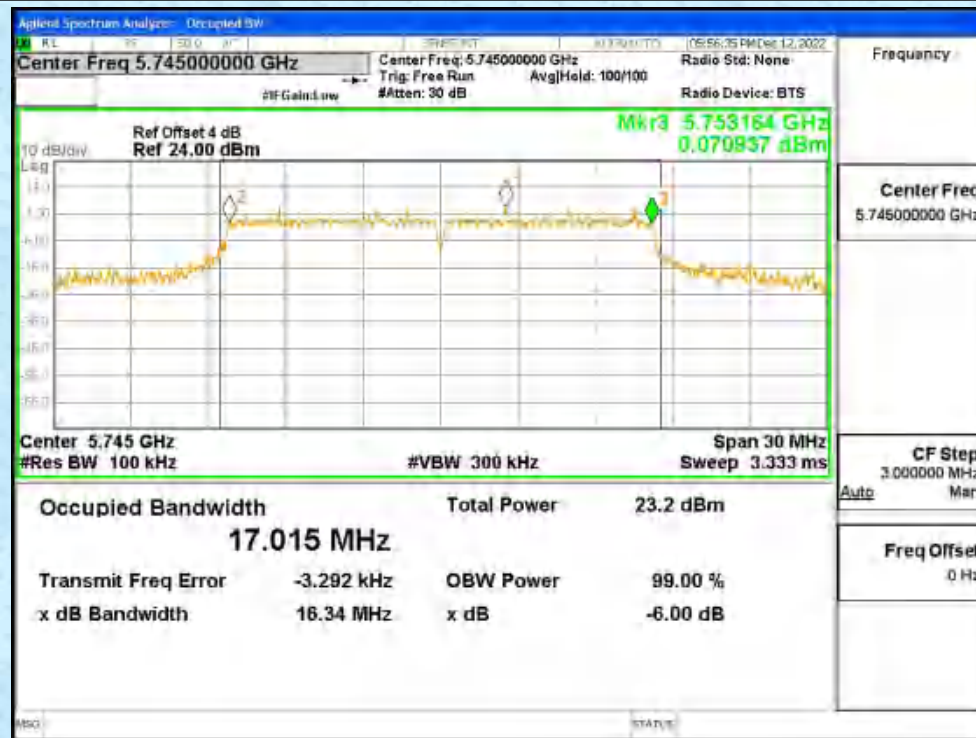
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	5.45	0	5.45	30	Pass
		5785		5.48	0	5.48	30	Pass
		5825		5.50	0	5.50	30	Pass
	n20	5745		5.45	0	5.45	30	Pass
		5785		5.50	0	5.50	30	Pass
		5825		5.51	0	5.51	30	Pass
	n40	5755		5.45	0	5.45	30	Pass
		5795		5.47	0	5.47	30	Pass

-6dB Bandwidth

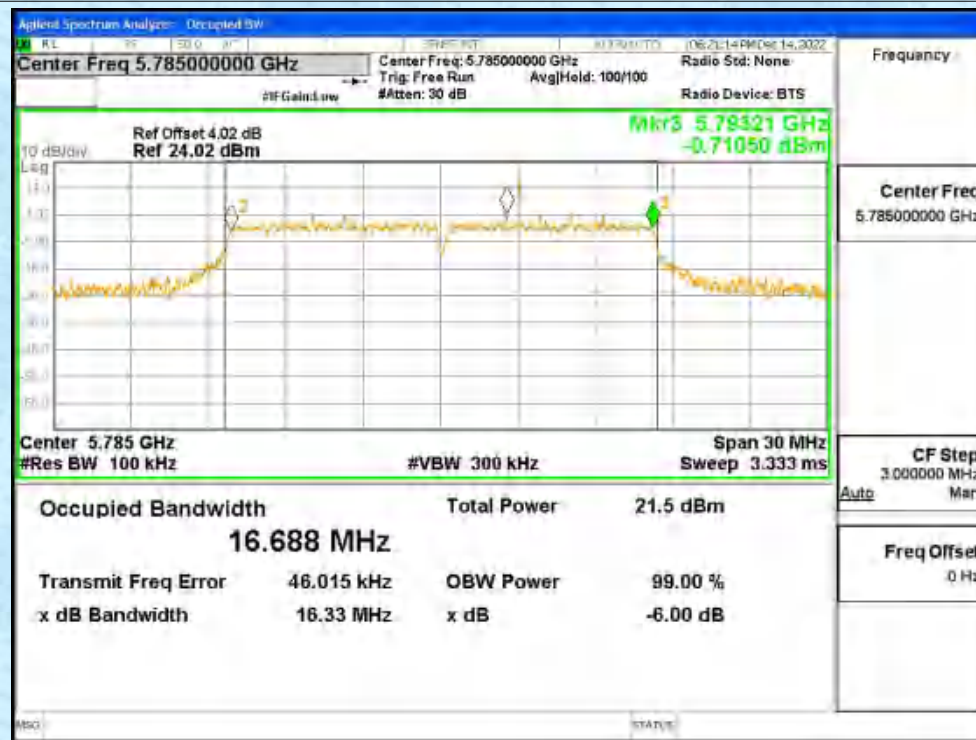
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.335	0.5	Pass
		5785		16.328	0.5	Pass
		5825		16.319	0.5	Pass
	n20	5745		17.608	0.5	Pass
		5785		17.62	0.5	Pass
		5825		17.577	0.5	Pass
	n40	5755		35.443	0.5	Pass
		5795		35.651	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



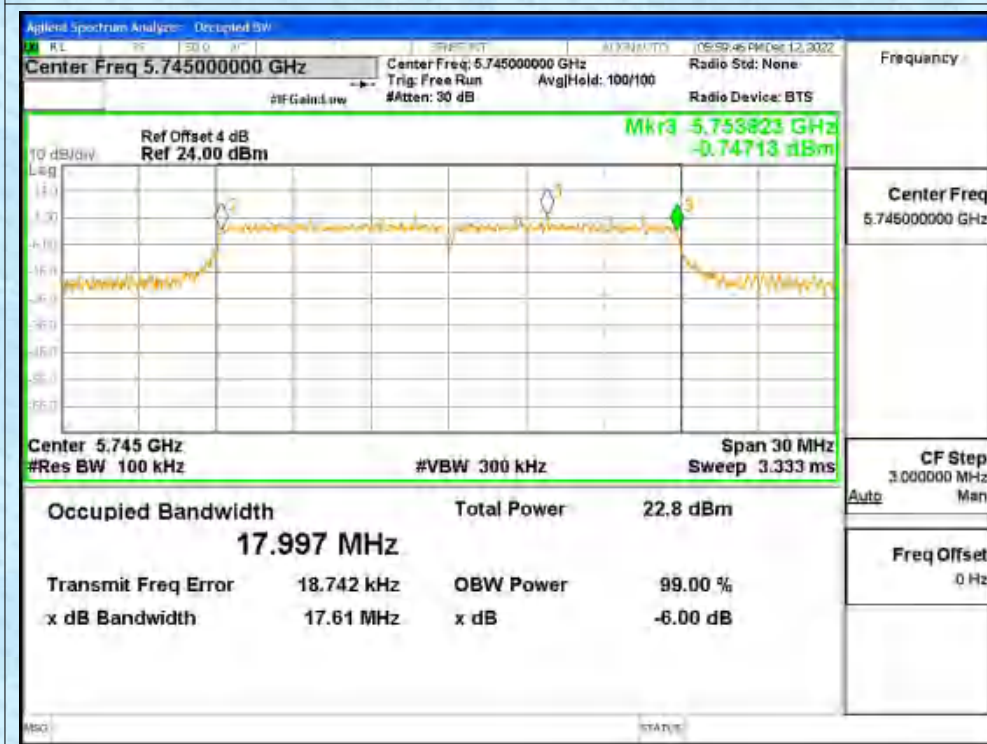
-6dB Bandwidth NVNT a 5785MHz Ant1



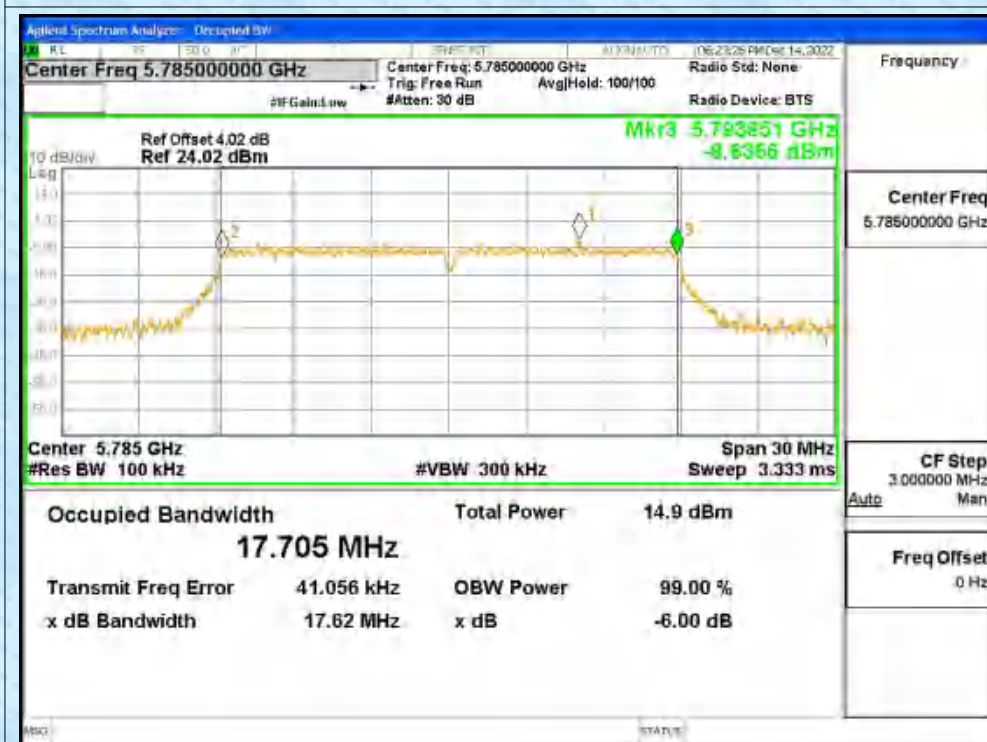
-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



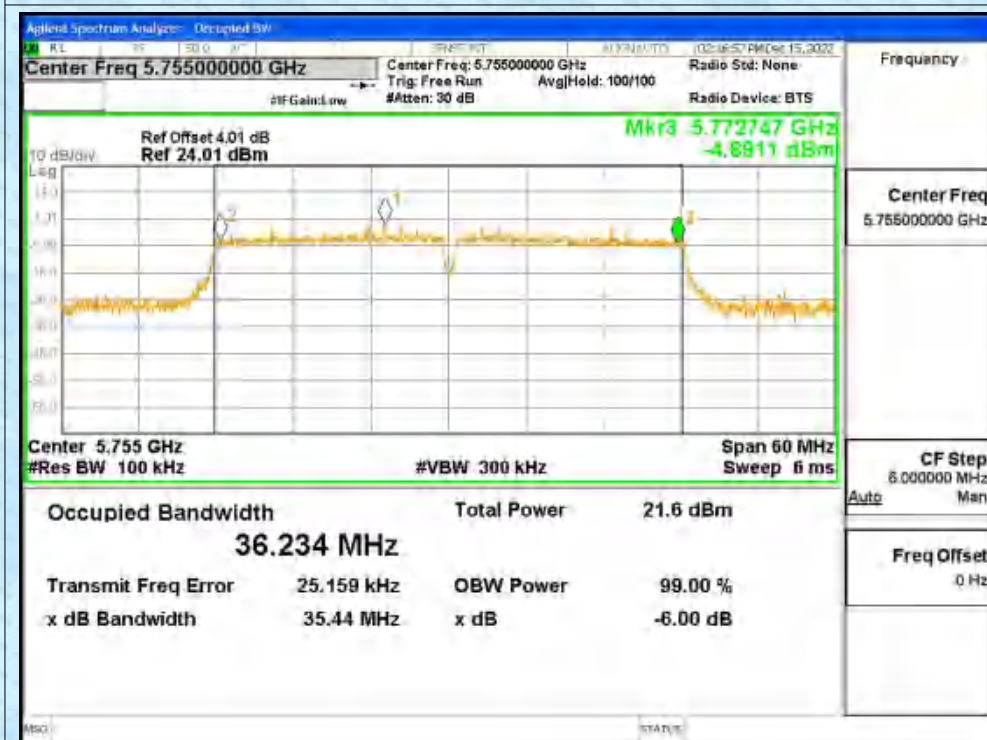
-6dB Bandwidth NVNT n20 5785MHz Ant1



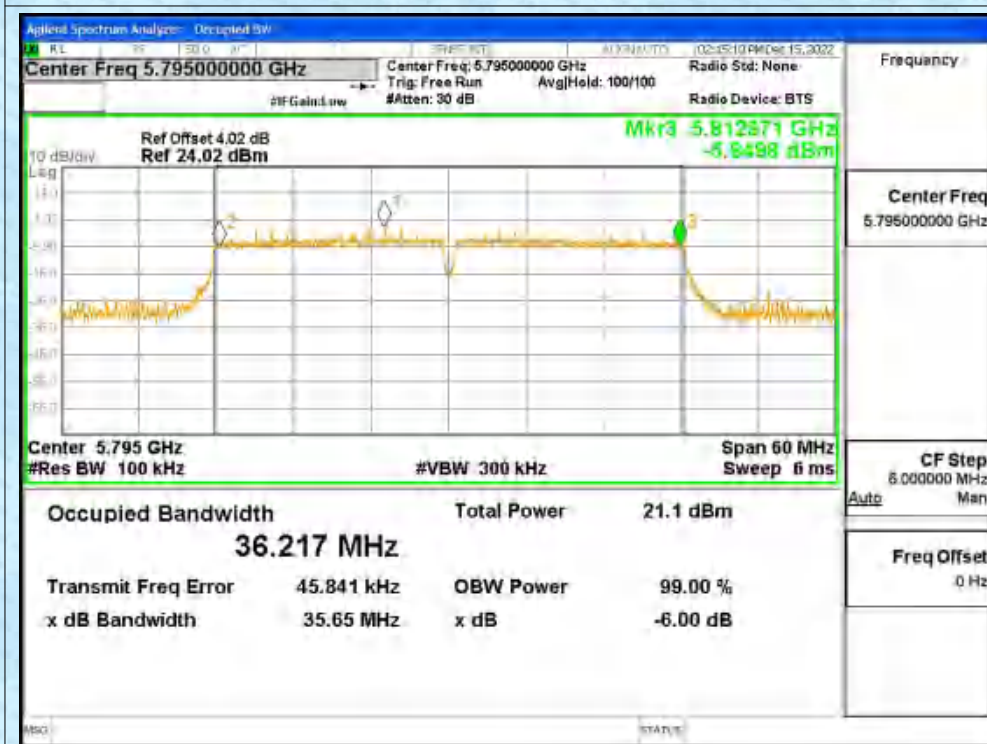
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1

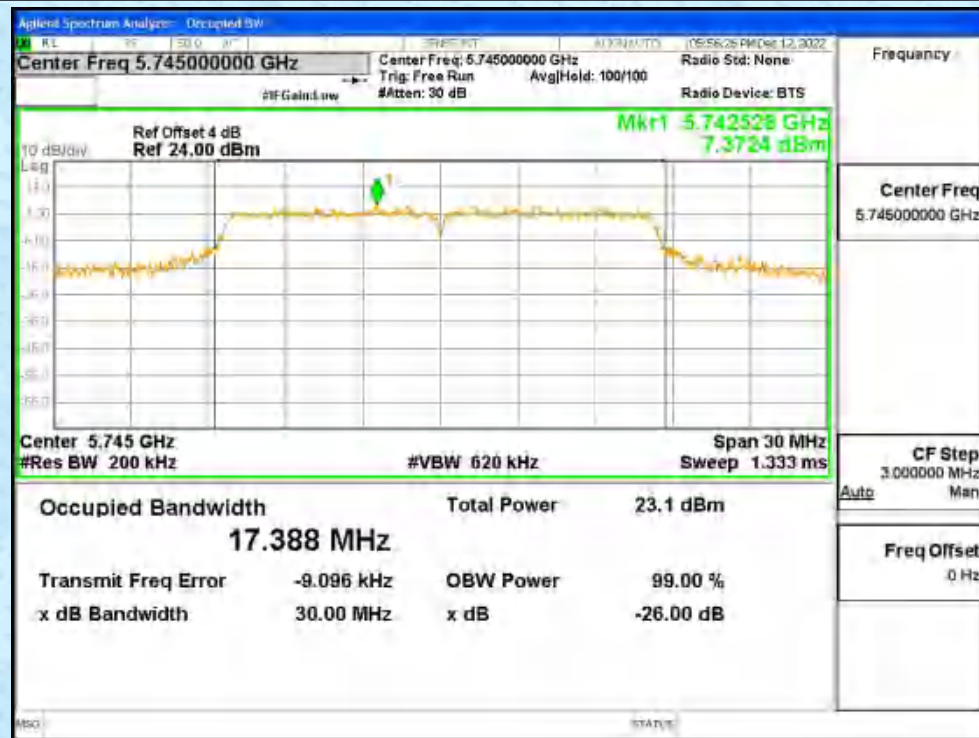


Occupied Channel Bandwidth

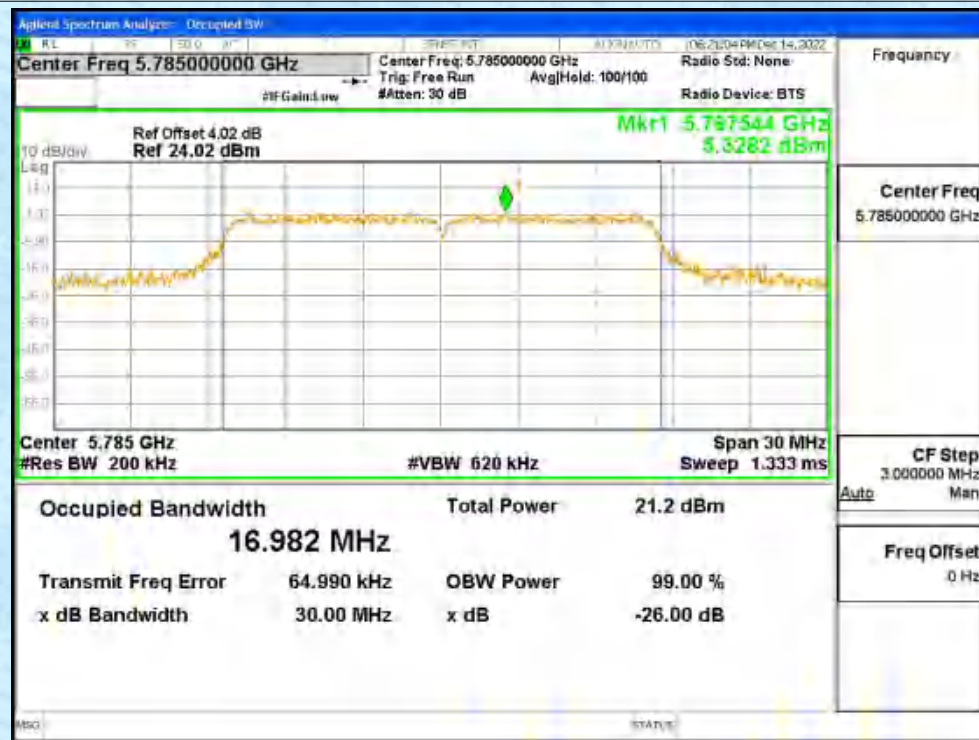
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	17.388
		5785		16.982
		5825		17.446
	n20	5745		18.276
		5785		17.802
		5825		18.224
	n40	5755		36.434
		5795		36.346

Test Graphs

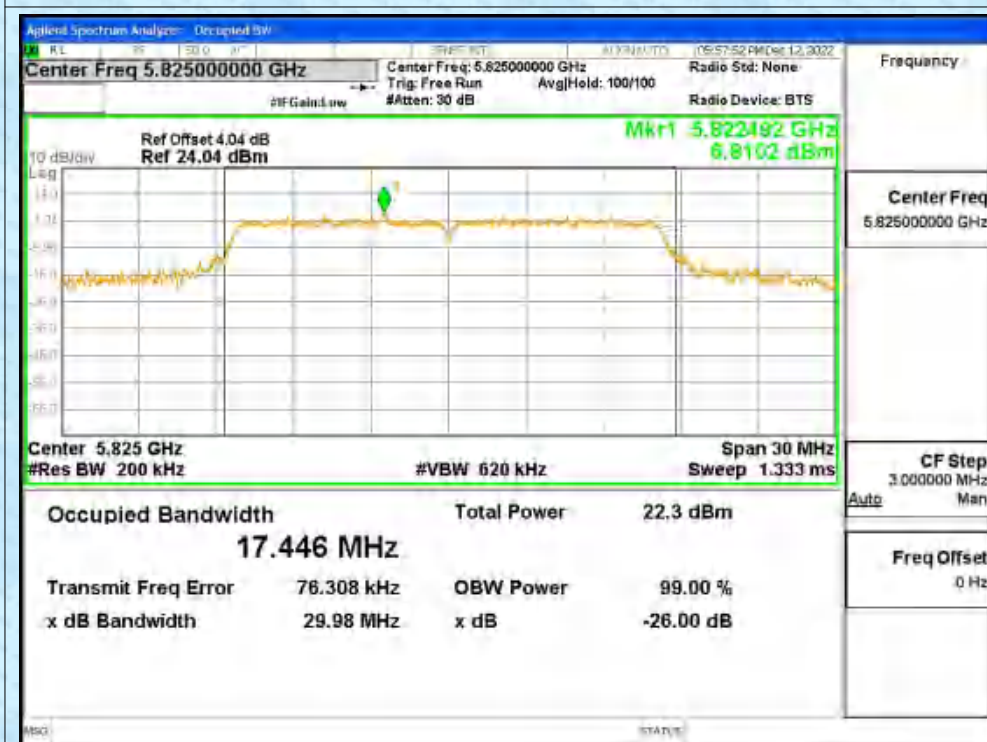
OBW NVNT a 5745MHz Ant1



OBW NVNT a 5785MHz Ant1



OBW NVNT a 5825MHz Ant1



OBW NVNT n20 5745MHz Ant1



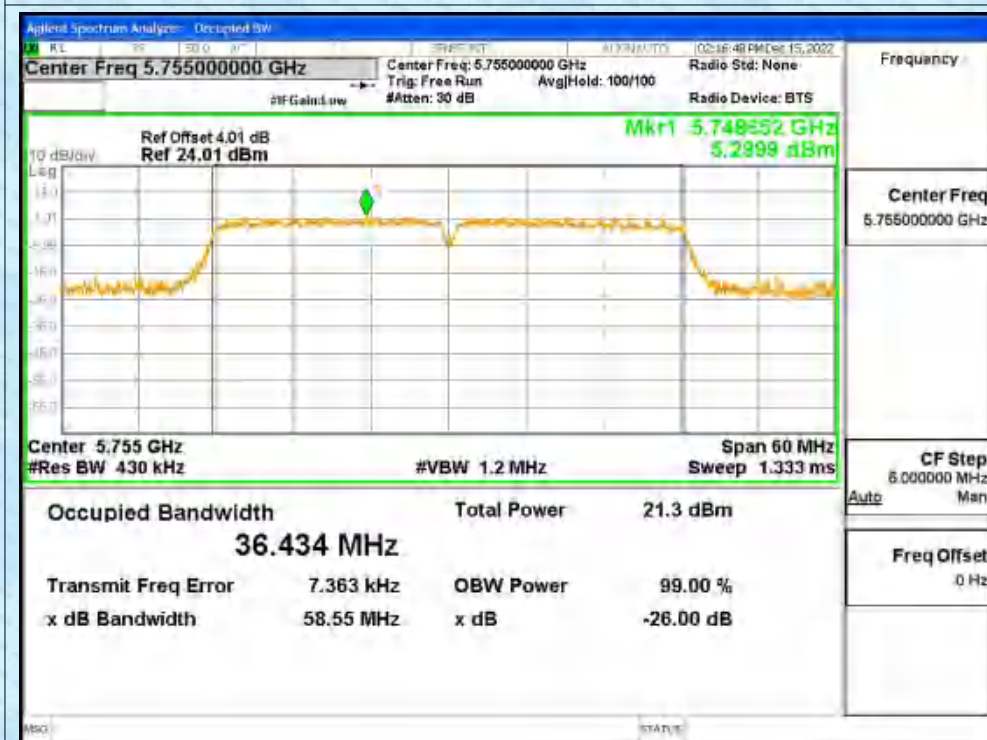
OBW NVNT n20 5785MHz Ant1



OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



Maximum Power Spectral Density Level

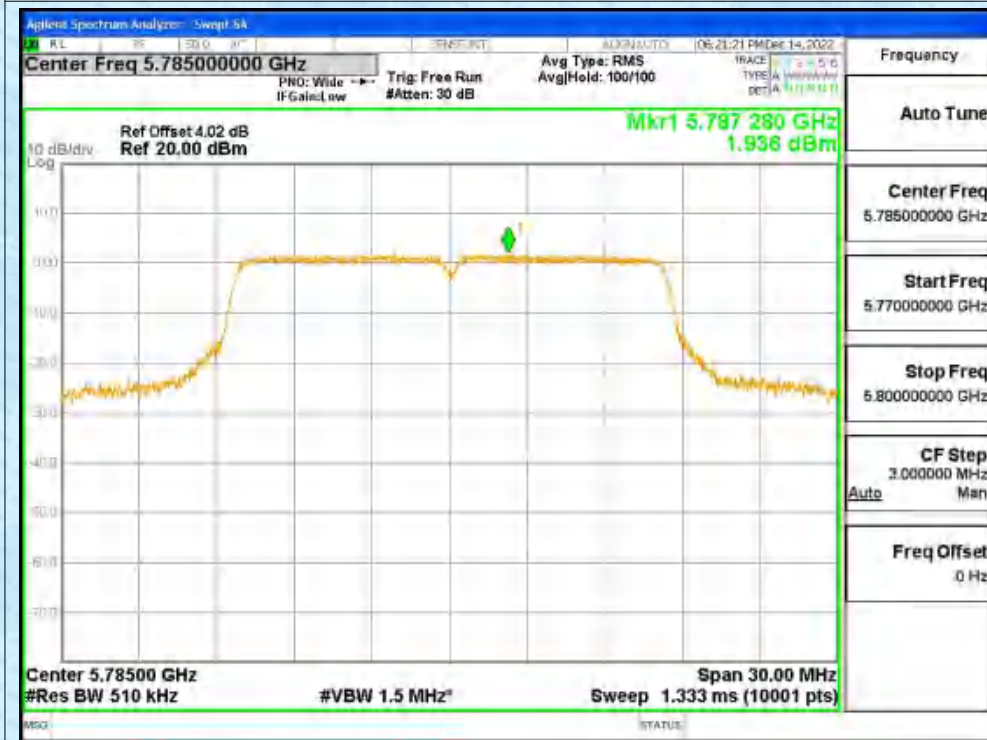
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	3.65	0.2	3.85	30	Pass
		5785		1.94	0.2	2.14	30	Pass
		5825		3.08	0.2	3.28	30	Pass
	n20	5745		3.17	0	3.17	30	Pass
		5785		-4.41	0	-4.41	30	Pass
		5825		2.57	0	2.57	30	Pass
	n40	5755		-0.95	0.12	-0.83	30	Pass
		5795		-1.19	0.12	-1.07	30	Pass

Test Graphs

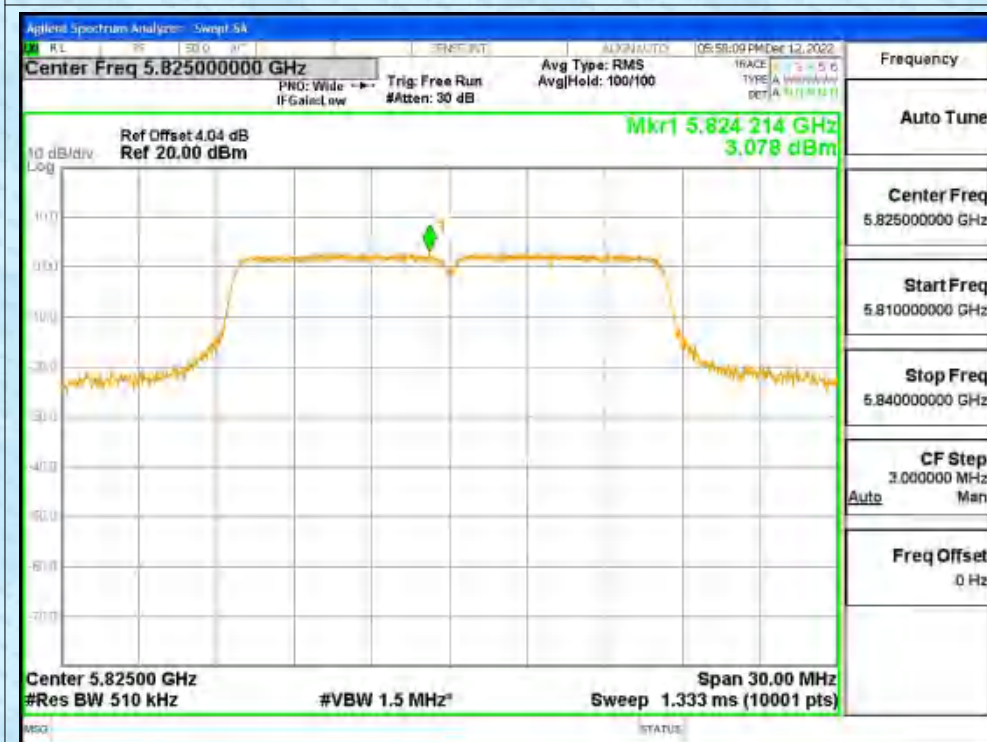
PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1

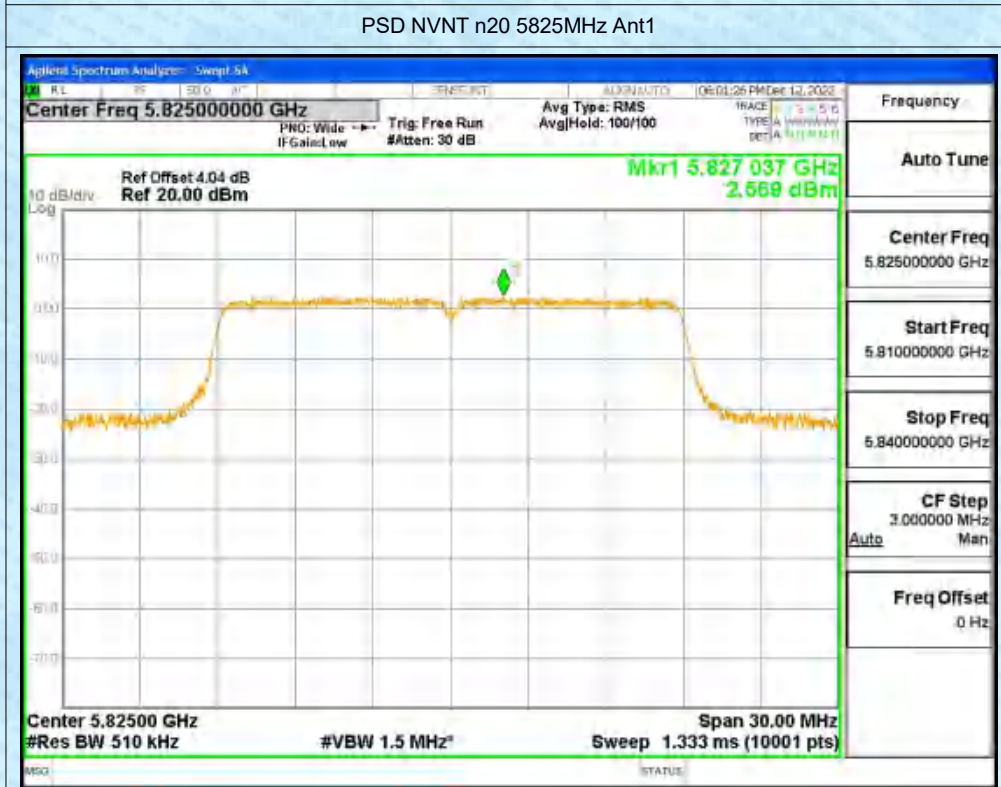
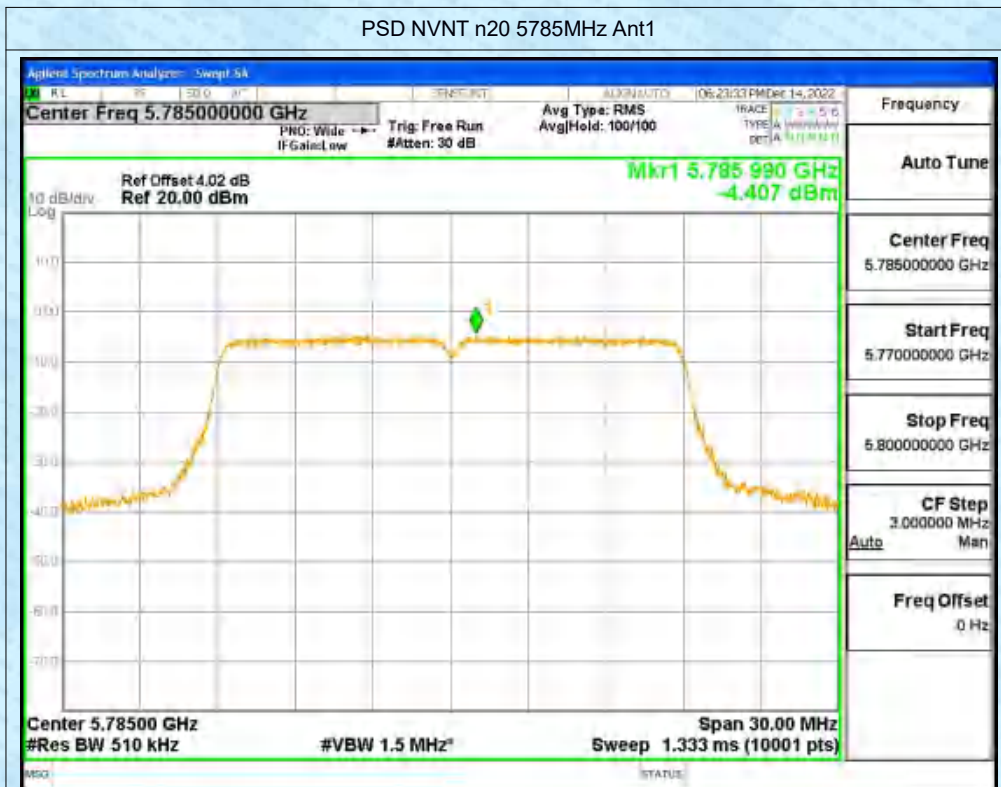


PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1





PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

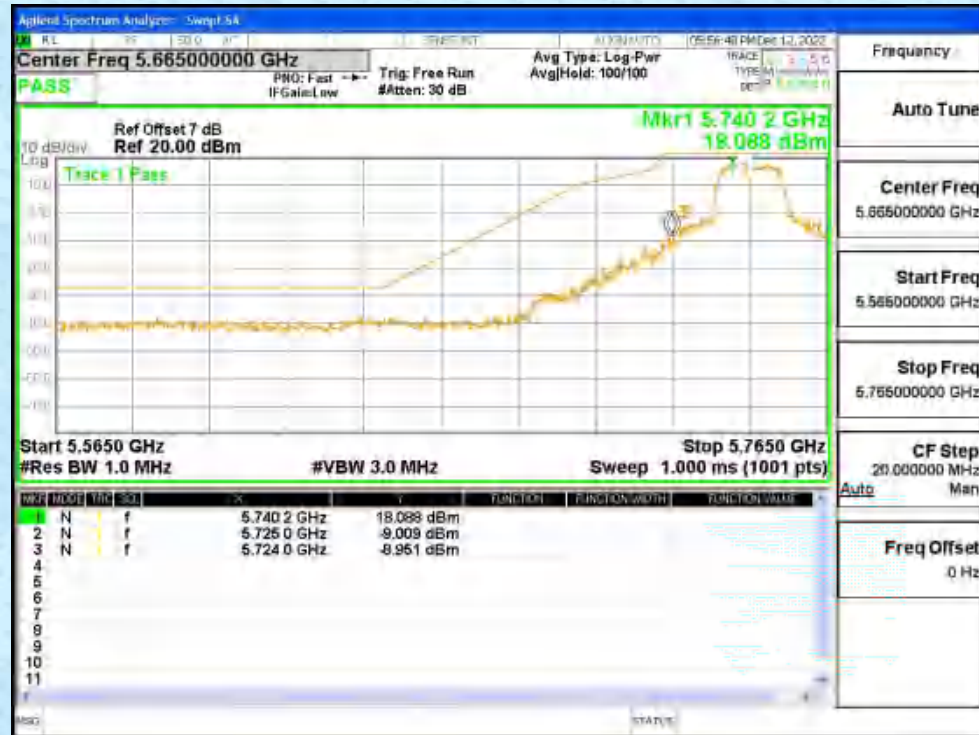


Band Edge

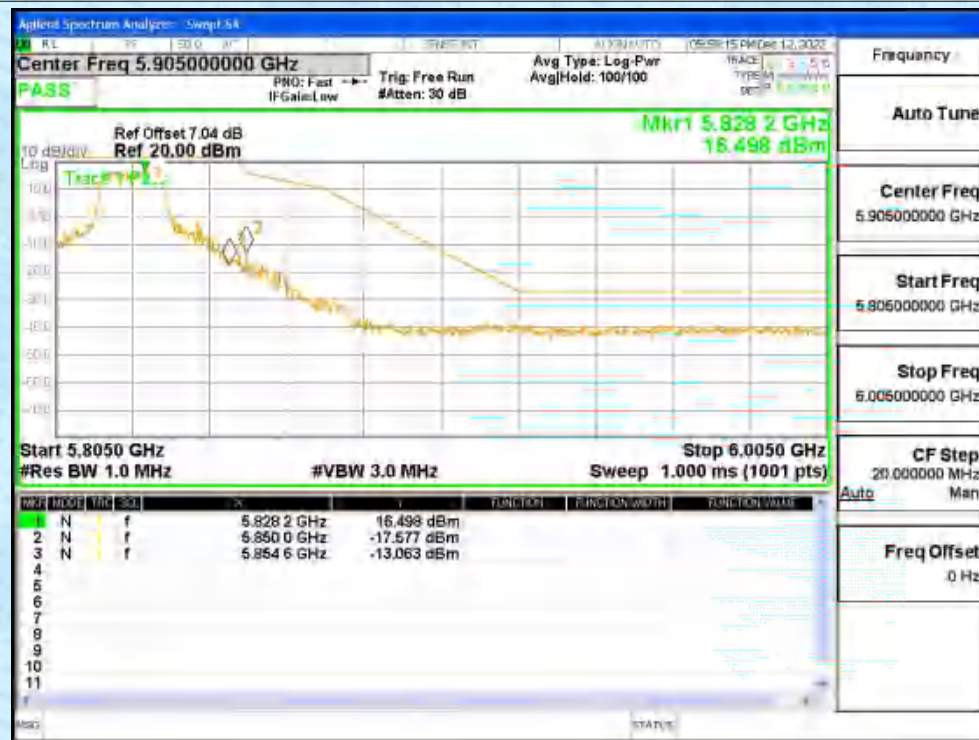
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-8.95		Pass
		5825		-13.06		Pass
	n20	5745		-3.75		Pass
		5825		-12.41		Pass
	n40	5755		-9.78		Pass
		5795		-28.52		Pass

Test Graphs

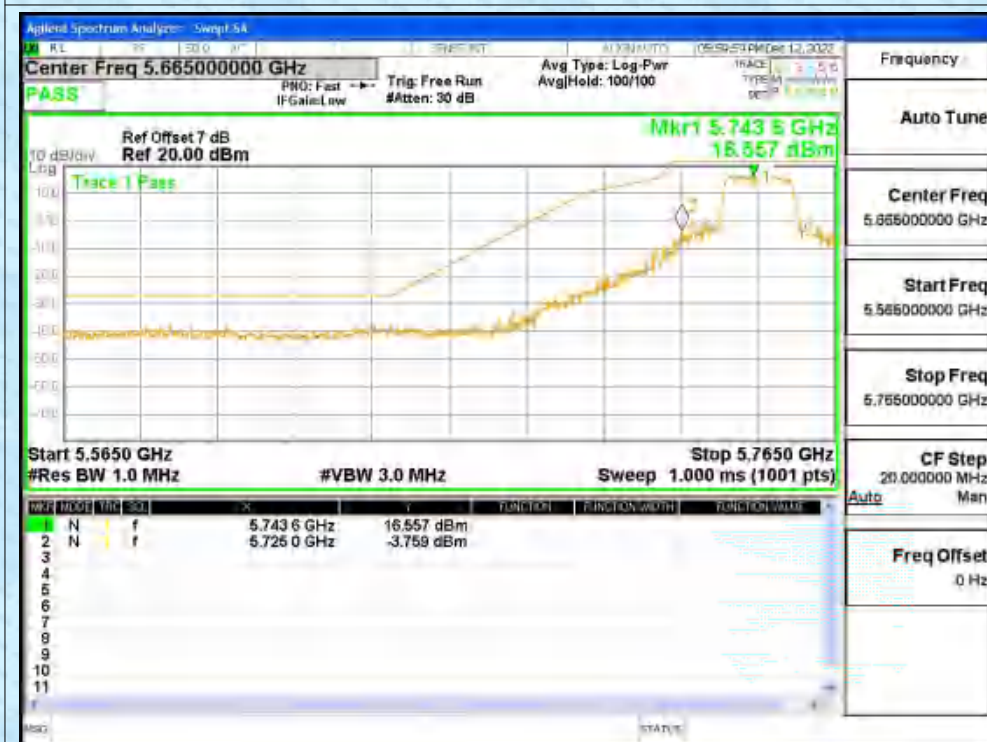
Band Edge NVNT a 5745MHz Low Ant1



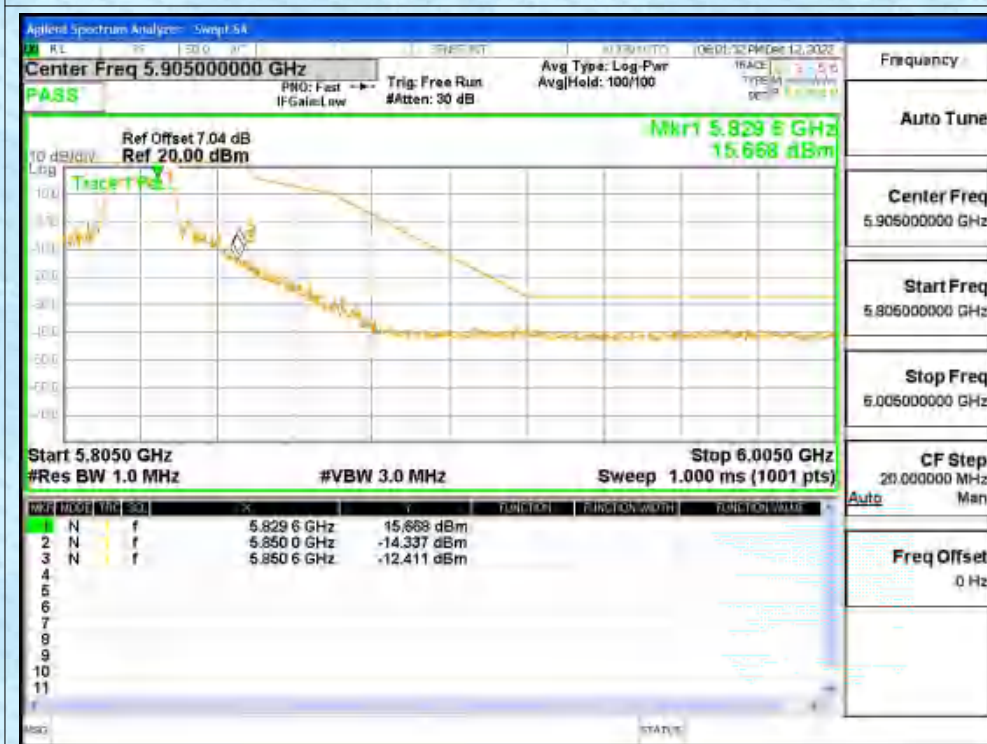
Band Edge NVNT a 5825MHz High Ant1



Band Edge NVNT n20 5745MHz Low Ant1



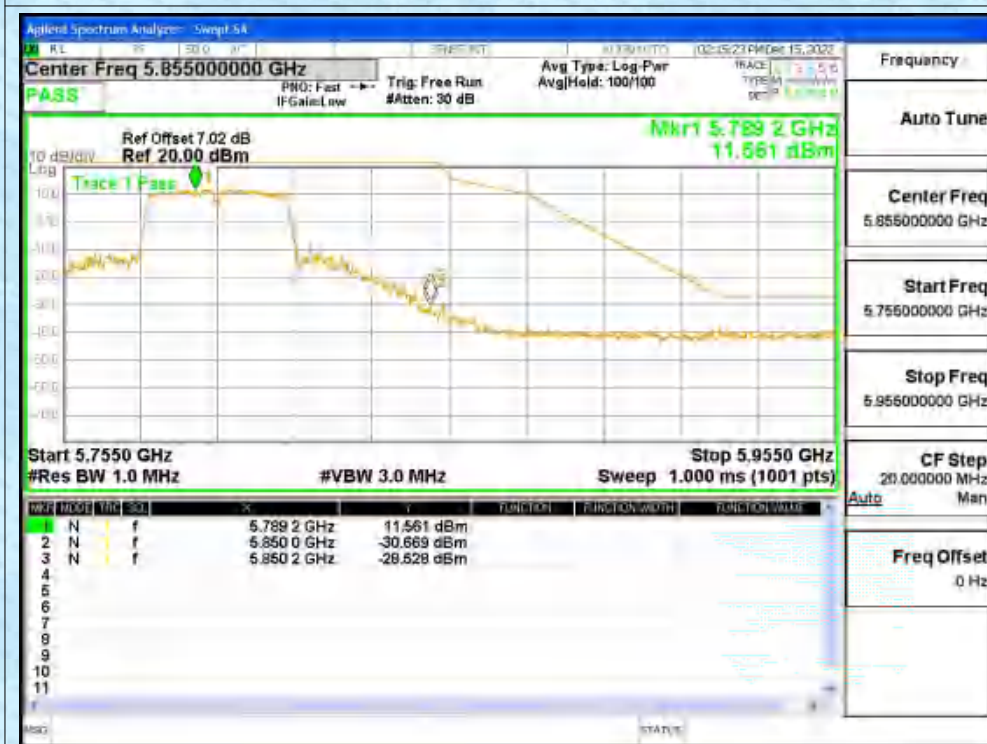
Band Edge NVNT n20 5825MHz High Ant1



Band Edge NVNT n40 5755MHz Low Ant1



Band Edge NVNT n40 5795MHz High Ant1



Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5745	0	0	25	Pass
		5785		5785.06	60000	10.37	25	Pass
		5825		5825.02	20000	3.43	25	Pass
	n20	5745		5745	0	0	25	Pass
		5785		5785.06	60000	10.37	25	Pass
		5825		5825.02	20000	3.43	25	Pass
	n40	5755		5755.04	40000	6.95	25	Pass
		5795		5795.04	40000	6.9	25	Pass

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