

FCC Appendix RF Test Data for UNII-3

FCC ID : 2BG9Y-MODELXXXPXXX

Company : Hyatta Digital Technology Co., Ltd.

EUT : Portable Data Terminal

Model Number : Model 7

Report No. : CTA26052902020

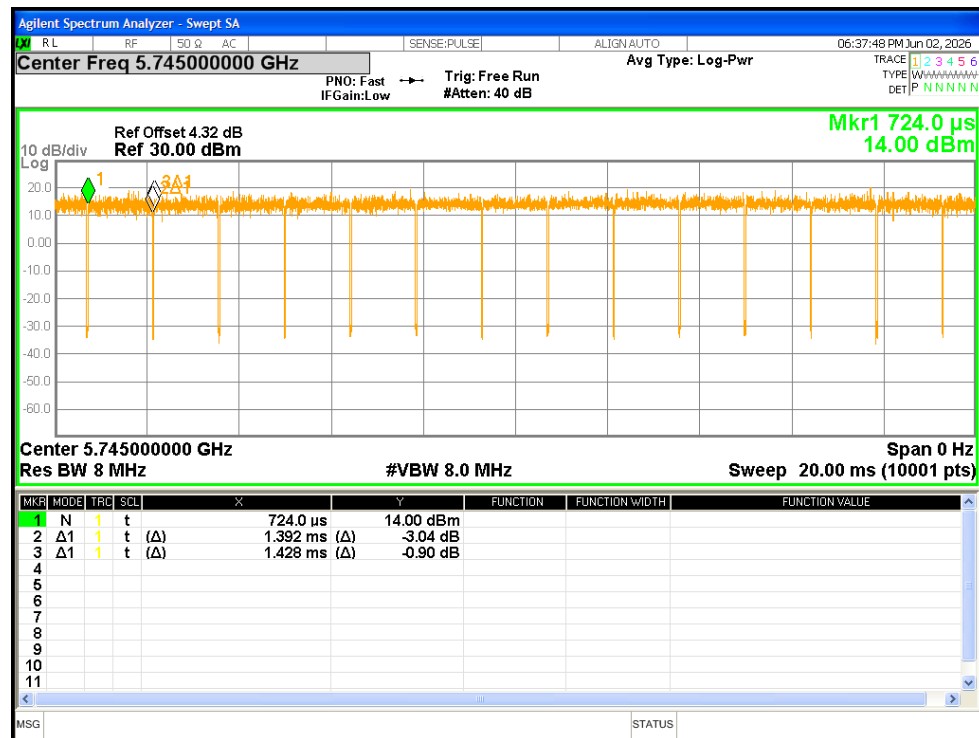
Reviewed By : Eric Wang

Duty Cycle

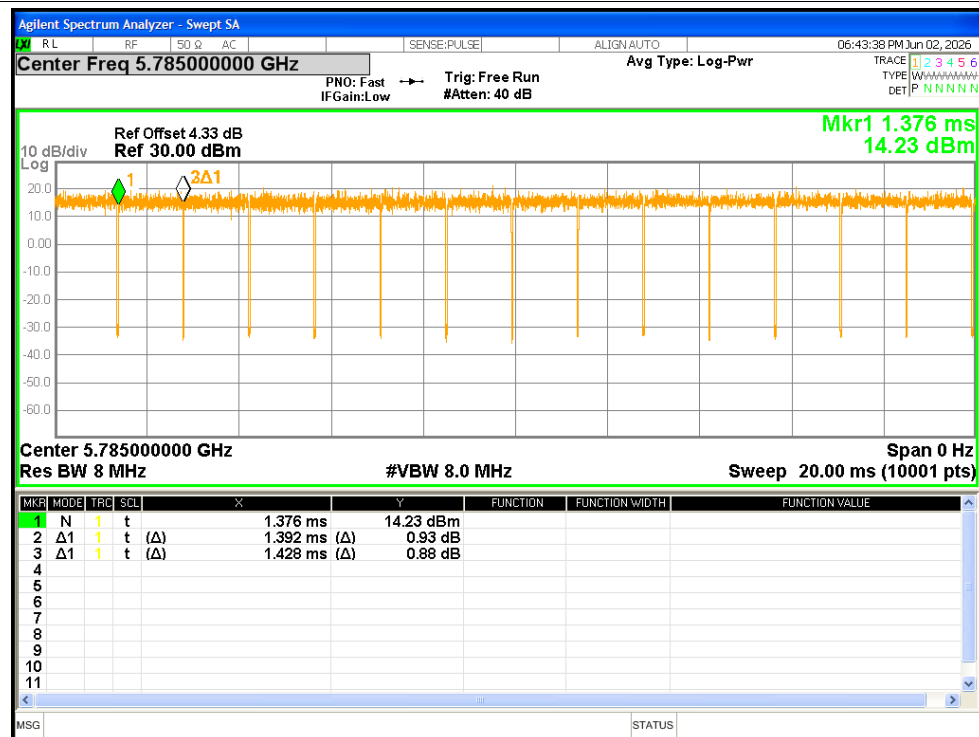
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Max Variation (%)
NVNT	a	5745	1.392	1.428	97.48	0.11	0.72	0.22
NVNT	a	5785	1.392	1.428	97.48	0.11	0.72	0.19
NVNT	a	5825	1.392	1.428	97.48	0.11	0.72	0.20
NVNT	n20	5745	1.302	1.336	97.46	0.11	0.77	0.15
NVNT	n20	5785	1.3	1.336	97.31	0.12	0.77	0.20
NVNT	n20	5825	1.3	1.336	97.31	0.12	0.77	0.17
NVNT	n40	5755	0.648	0.682	95.01	0.22	1.54	0.17
NVNT	n40	5795	0.648	0.682	95.01	0.22	1.54	0.17
NVNT	ac20	5745	1.311	1.347	97.33	0.12	0.76	0.15
NVNT	ac20	5785	1.314	1.347	97.55	0.11	0.76	0.16
NVNT	ac20	5825	1.311	1.347	97.33	0.12	0.76	0.15
NVNT	ac40	5755	0.652	0.688	94.77	0.23	1.53	0.23
NVNT	ac40	5795	0.652	0.686	95.04	0.22	1.53	0.21
NVNT	ac80	5775	0.324	0.358	90.5	0.43	3.09	0.17

Test Graphs

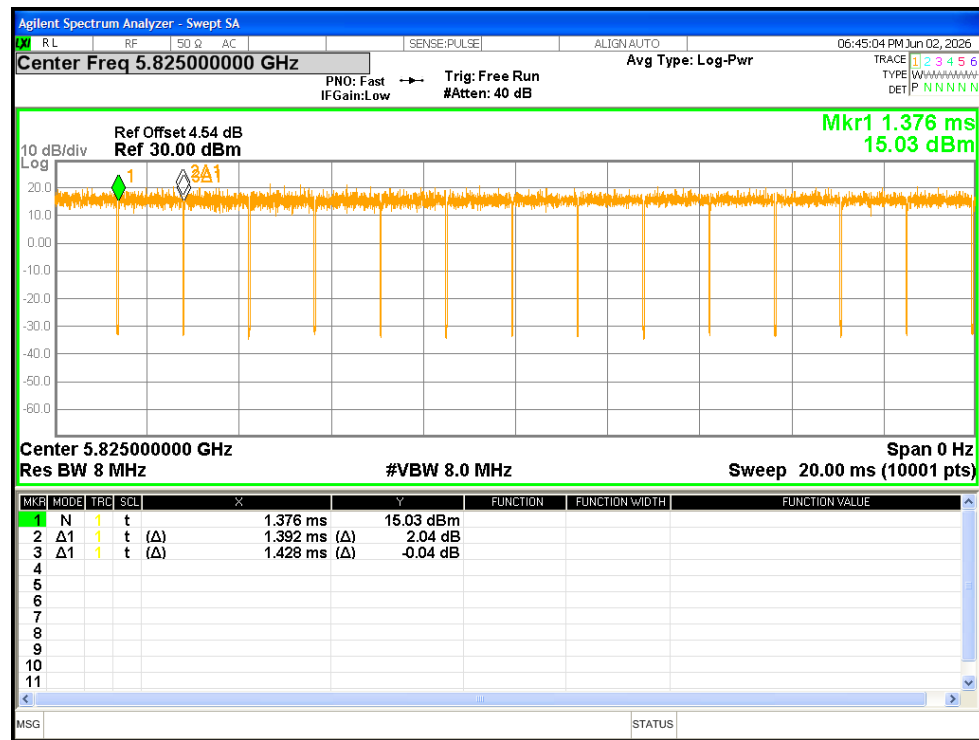
Duty Cycle NVNT a 5745MHz



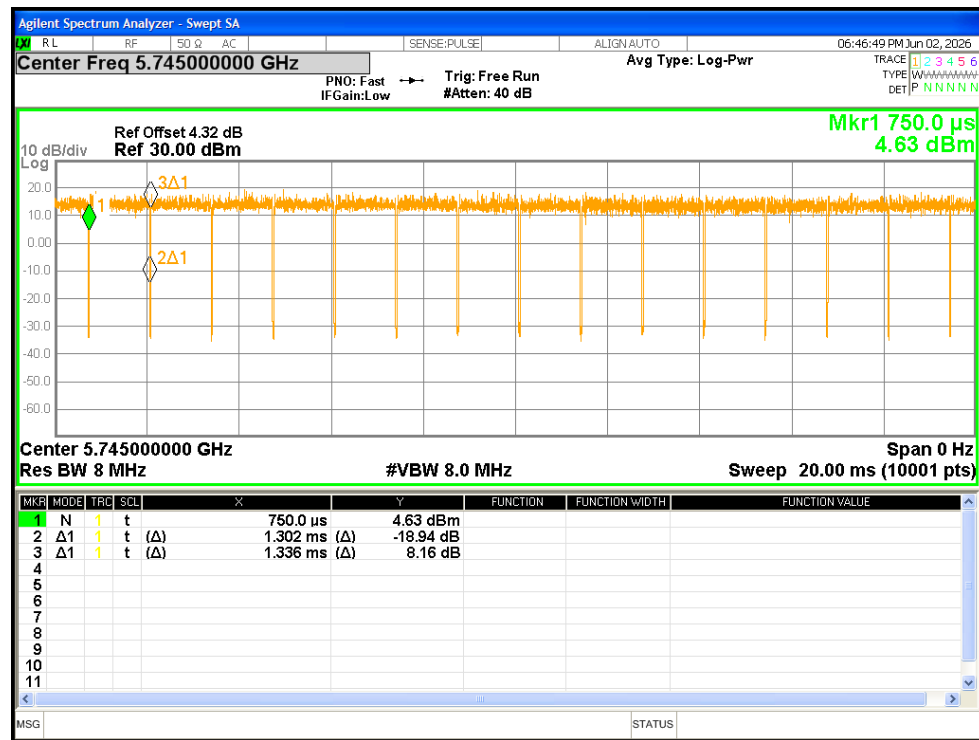
Duty Cycle NVNT a 5785MHz



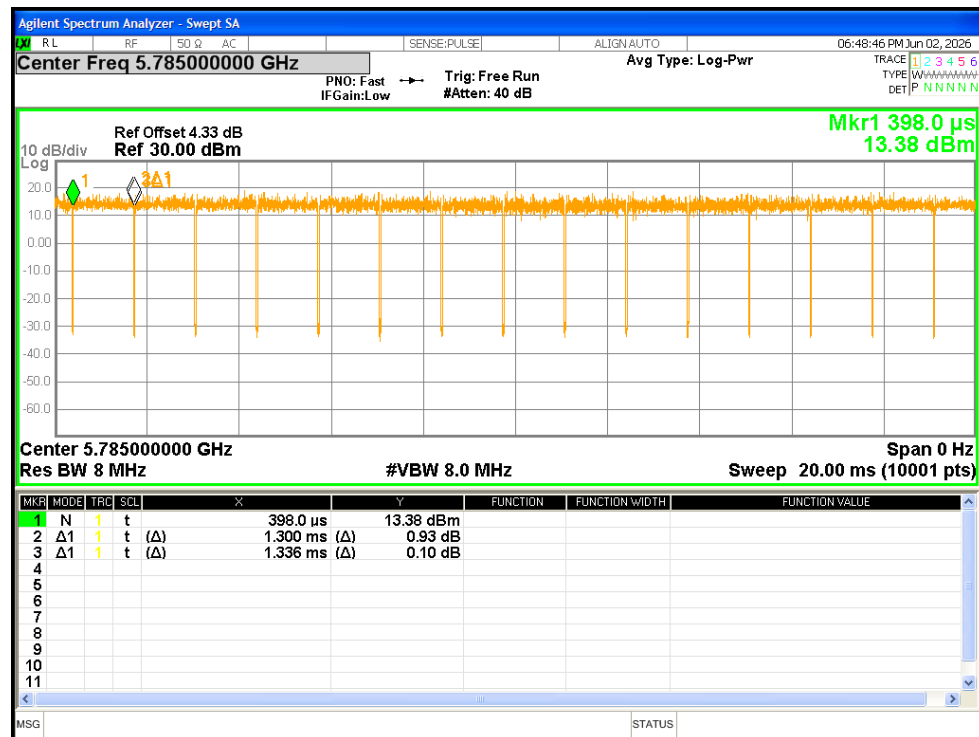
Duty Cycle NVNT a 5825MHz



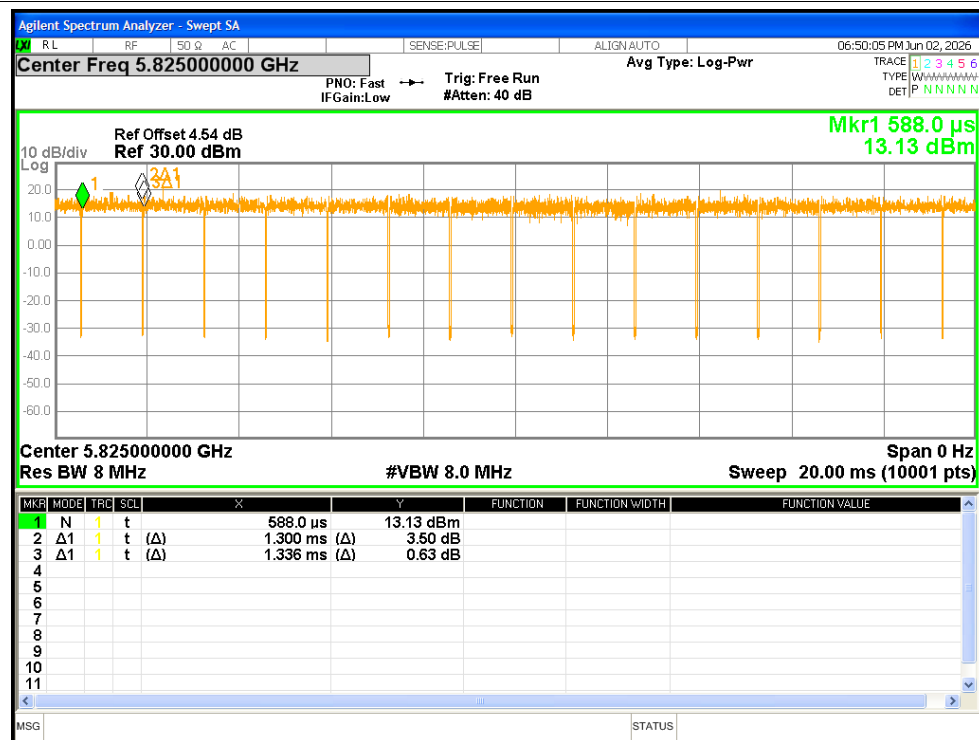
Duty Cycle NVNT n20 5745MHz



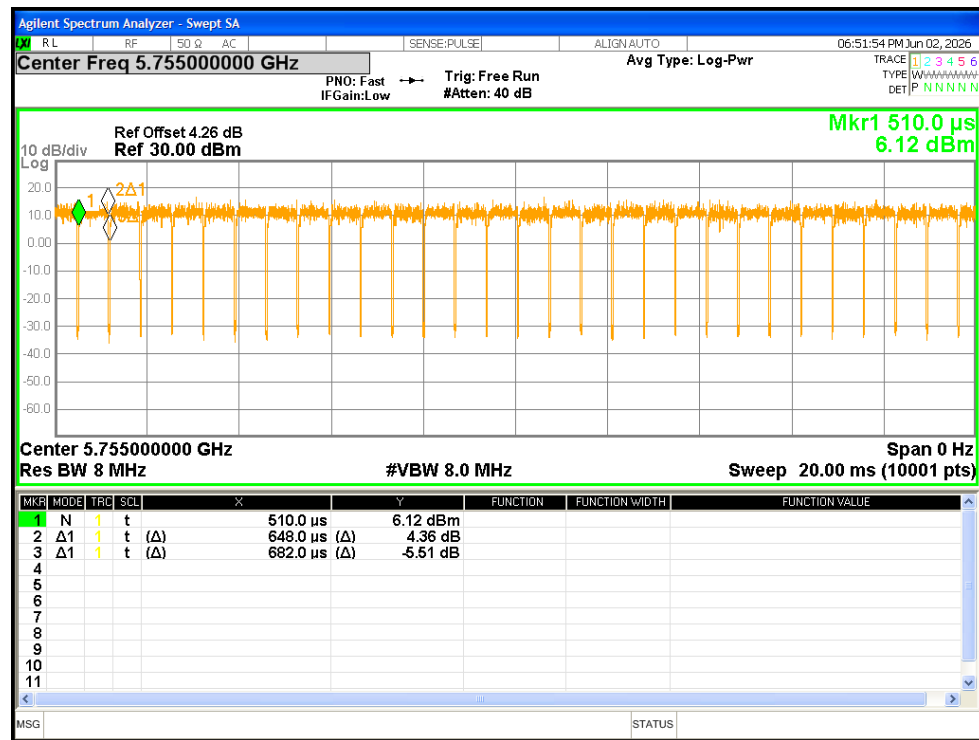
Duty Cycle NVNT n20 5785MHz



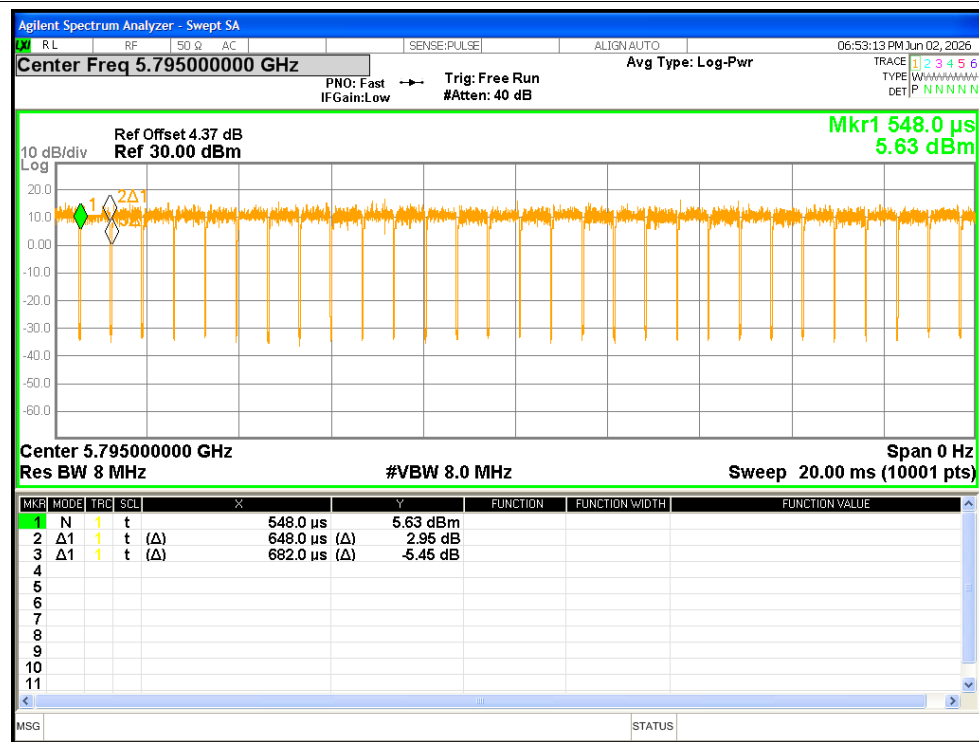
Duty Cycle NVNT n20 5825MHz



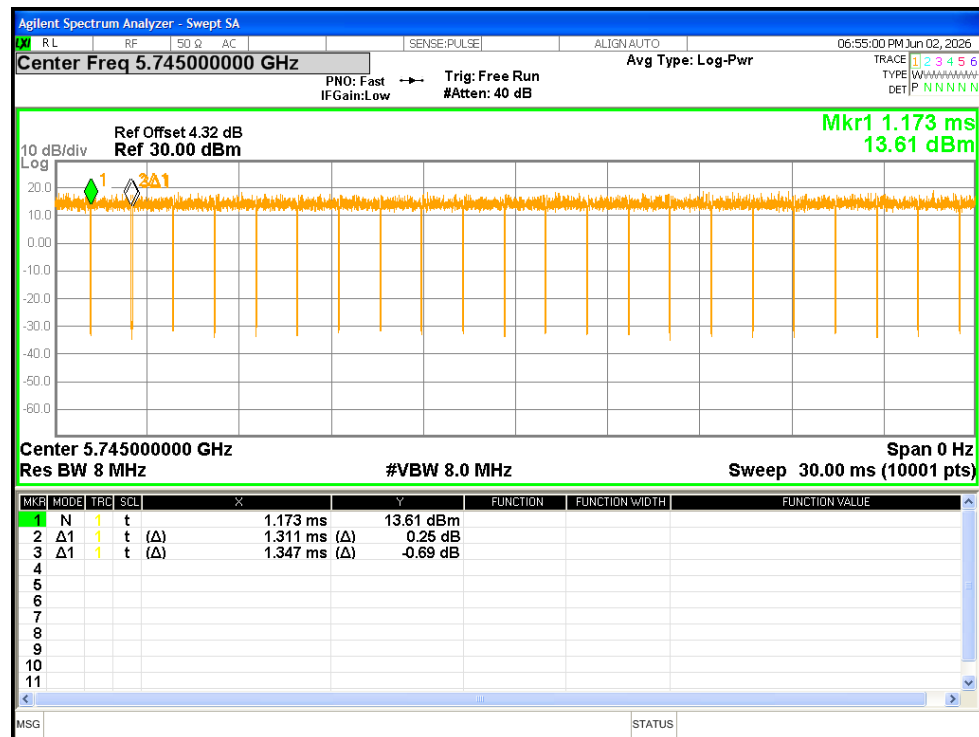
Duty Cycle NVNT n40 5755MHz



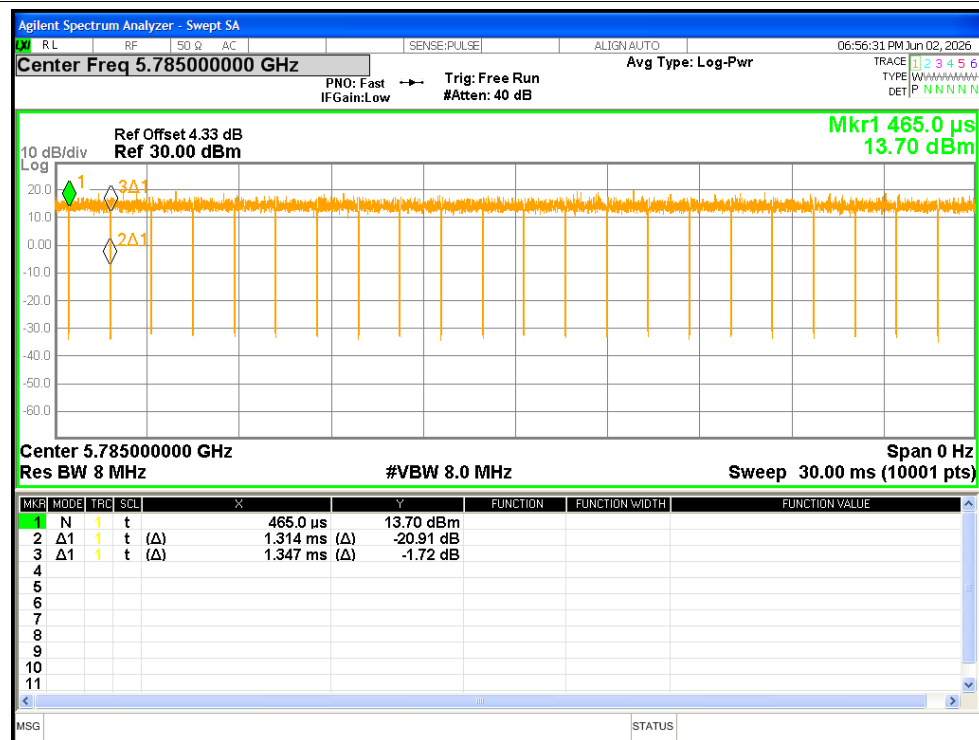
Duty Cycle NVNT n40 5795MHz



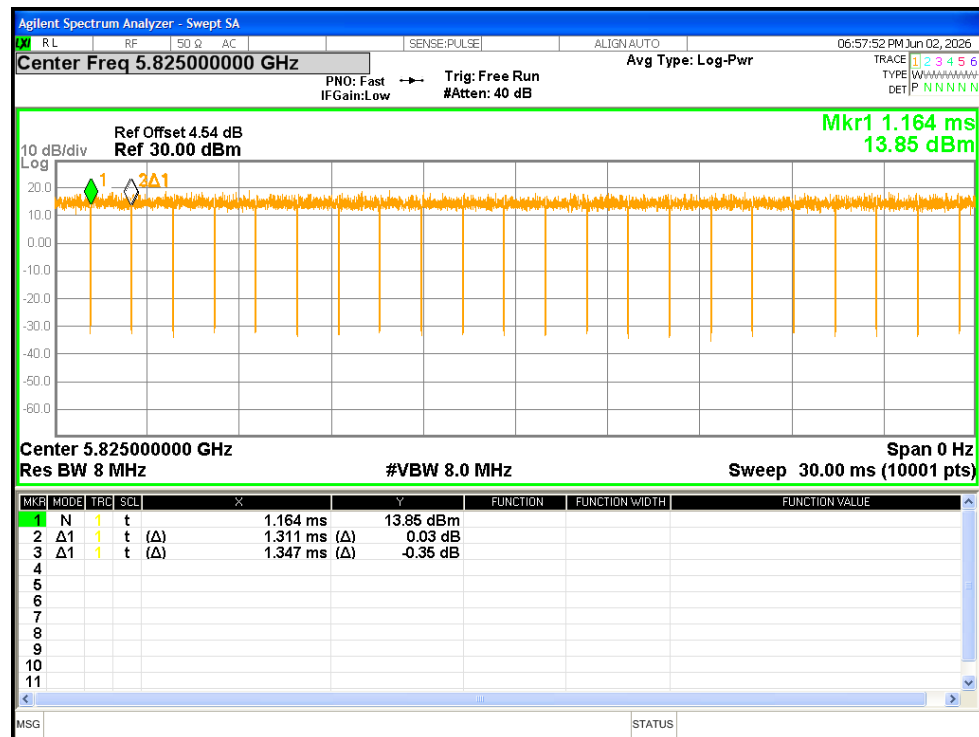
Duty Cycle NVNT ac20 5745MHz



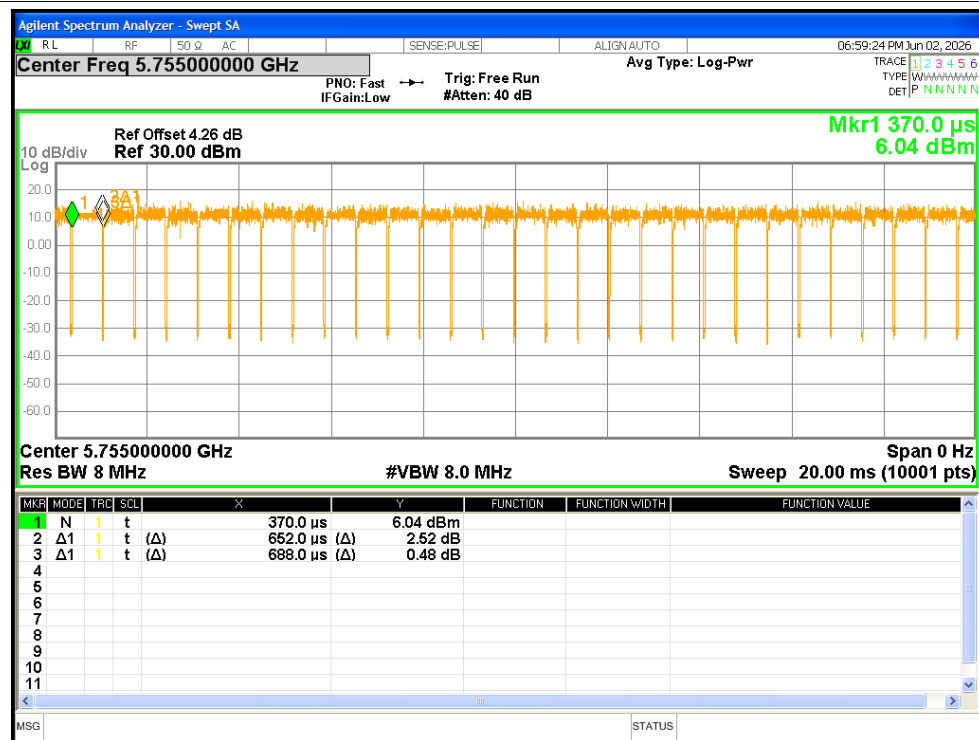
Duty Cycle NVNT ac20 5785MHz



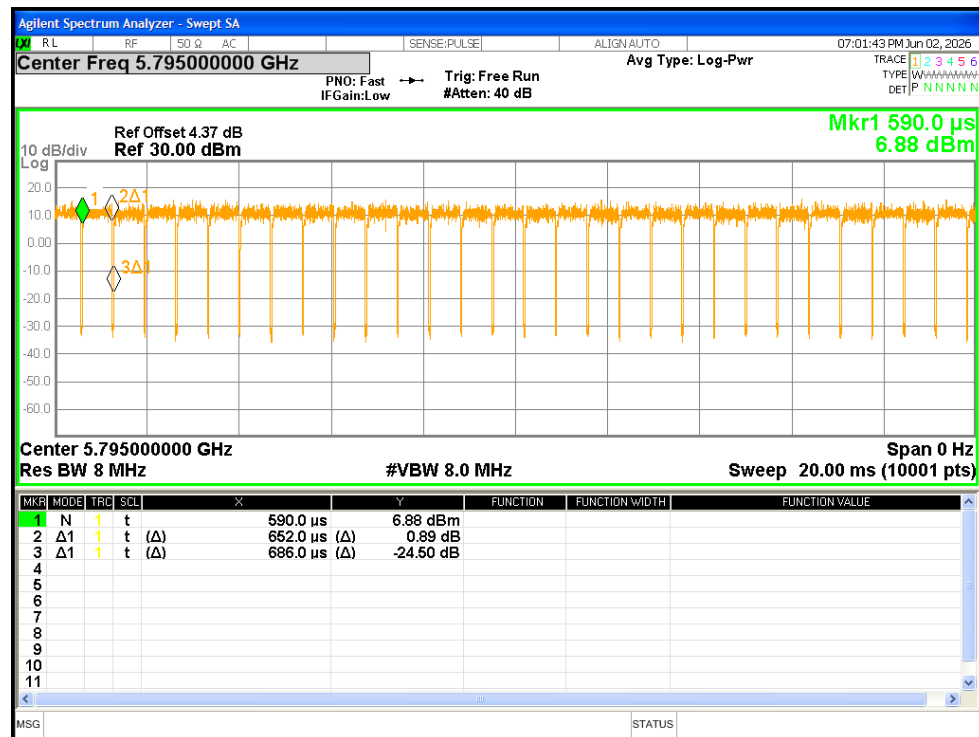
Duty Cycle NVNT ac20 5825MHz



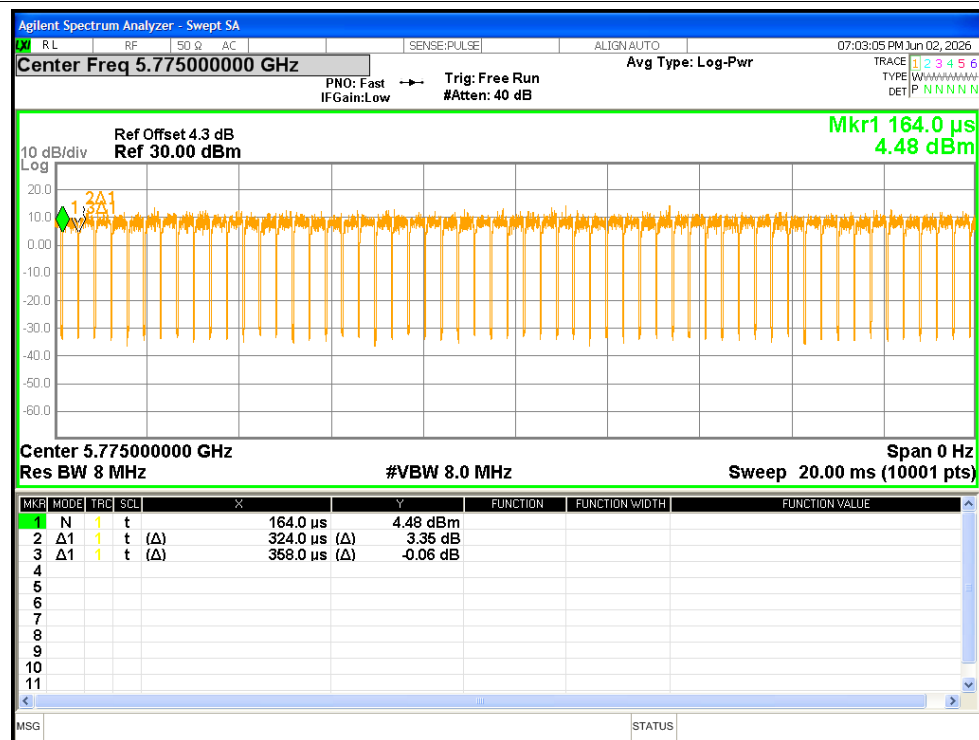
Duty Cycle NVNT ac40 5755MHz



Duty Cycle NVNT ac40 5795MHz



Duty Cycle NVNT ac80 5775MHz



Maximum Output Power

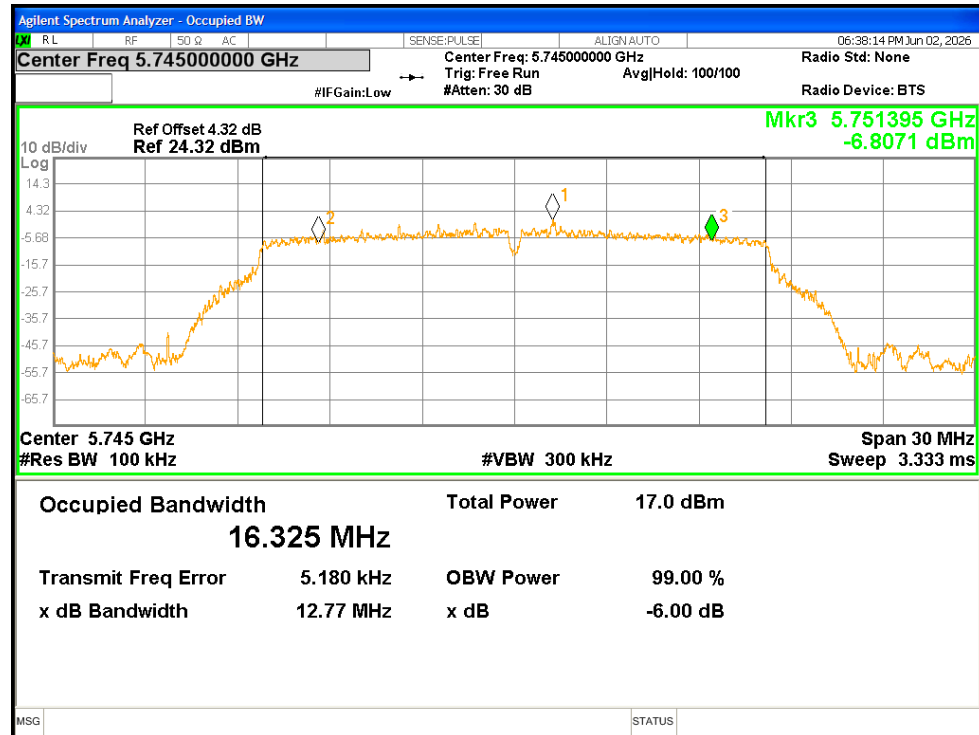
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	12.3	0.11	12.41	<=30	Pass
NVNT	a	5785	12.37	0.11	12.48	<=30	Pass
NVNT	a	5825	12.5	0.11	12.61	<=30	Pass
NVNT	n20	5745	10.98	0.11	11.09	<=30	Pass
NVNT	n20	5785	10.9	0.12	11.02	<=30	Pass
NVNT	n20	5825	11.19	0.12	11.31	<=30	Pass
NVNT	n40	5755	10.8	0.22	11.02	<=30	Pass
NVNT	n40	5795	10.7	0.22	10.92	<=30	Pass
NVNT	ac20	5745	10.98	0.12	11.1	<=30	Pass
NVNT	ac20	5785	10.93	0.11	11.04	<=30	Pass
NVNT	ac20	5825	11.16	0.12	11.28	<=30	Pass
NVNT	ac40	5755	10.8	0.23	11.03	<=30	Pass
NVNT	ac40	5795	10.72	0.22	10.94	<=30	Pass
NVNT	ac80	5775	10.87	0.43	11.3	<=30	Pass

-6dB Bandwidth

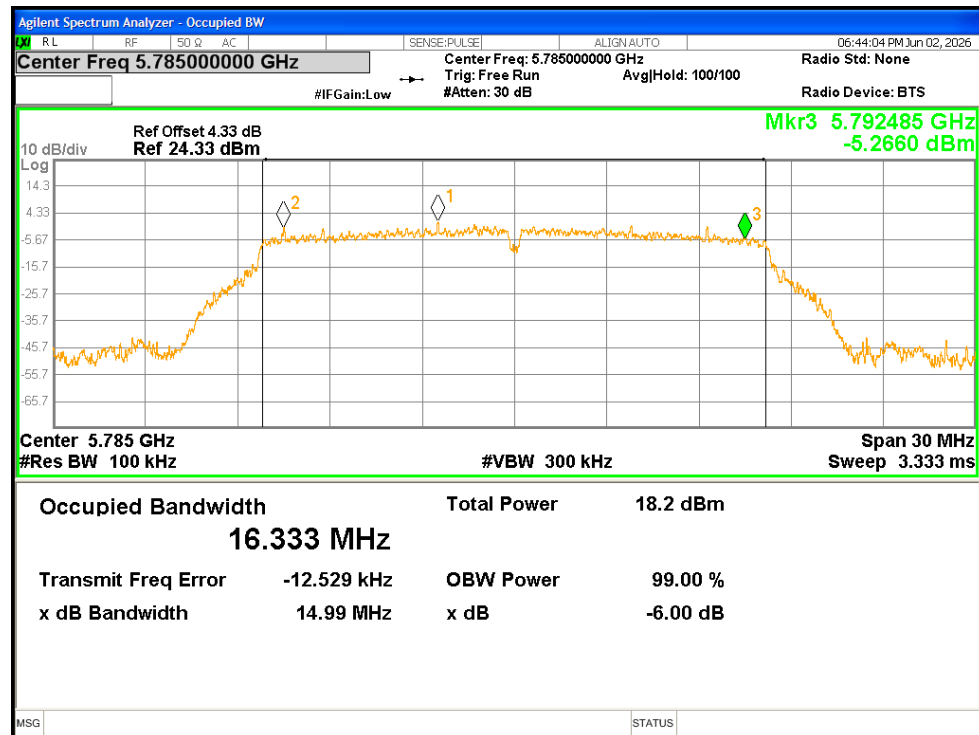
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	12.77	≥ 0.5	Pass
NVNT	a	5785	14.99	≥ 0.5	Pass
NVNT	a	5825	13.81	≥ 0.5	Pass
NVNT	n20	5745	15.02	≥ 0.5	Pass
NVNT	n20	5785	15.44	≥ 0.5	Pass
NVNT	n20	5825	15.32	≥ 0.5	Pass
NVNT	n40	5755	35.08	≥ 0.5	Pass
NVNT	n40	5795	33.81	≥ 0.5	Pass
NVNT	ac20	5745	16.9	≥ 0.5	Pass
NVNT	ac20	5785	15.1	≥ 0.5	Pass
NVNT	ac20	5825	13.89	≥ 0.5	Pass
NVNT	ac40	5755	35.09	≥ 0.5	Pass
NVNT	ac40	5795	33.82	≥ 0.5	Pass
NVNT	ac80	5775	75.09	≥ 0.5	Pass

Test Graphs

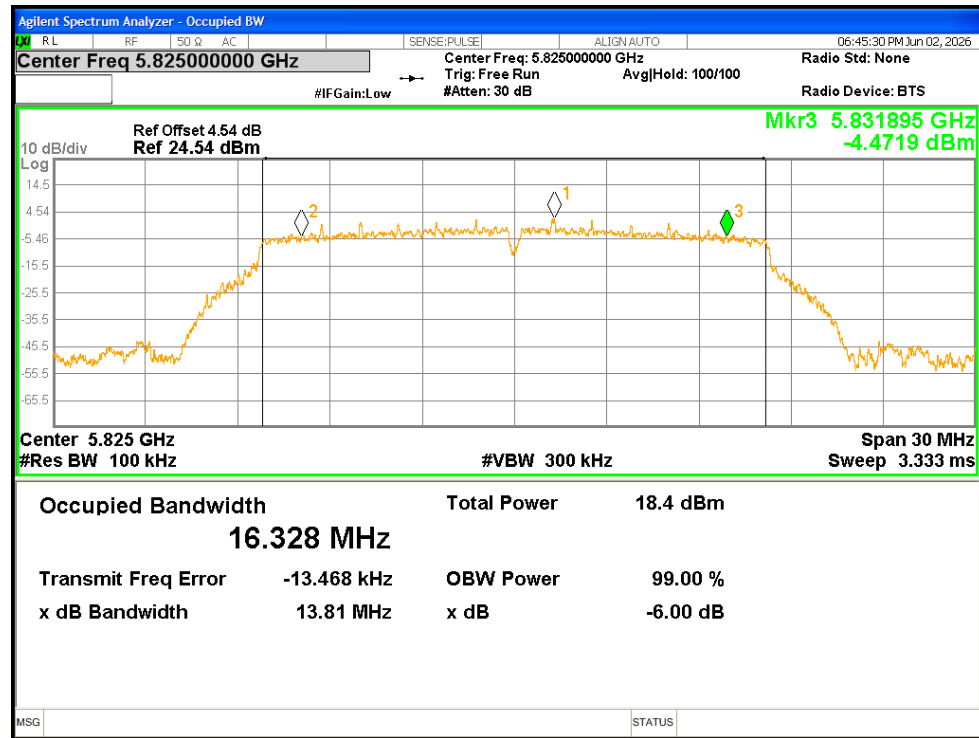
-6dB Bandwidth NVNT a 5745MHz



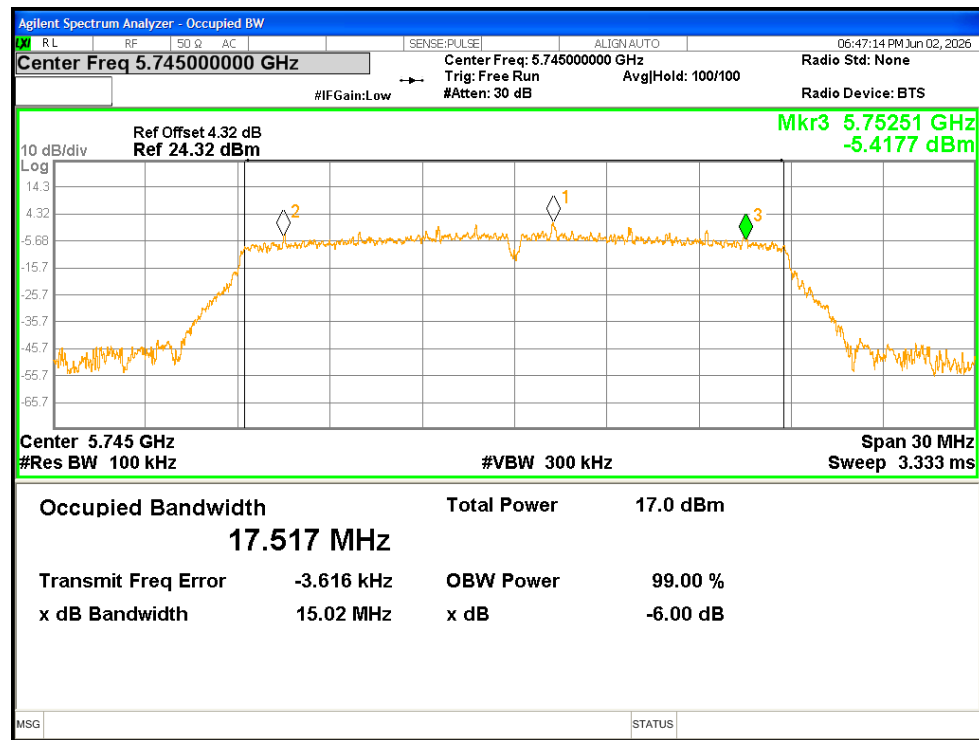
-6dB Bandwidth NVNT a 5785MHz



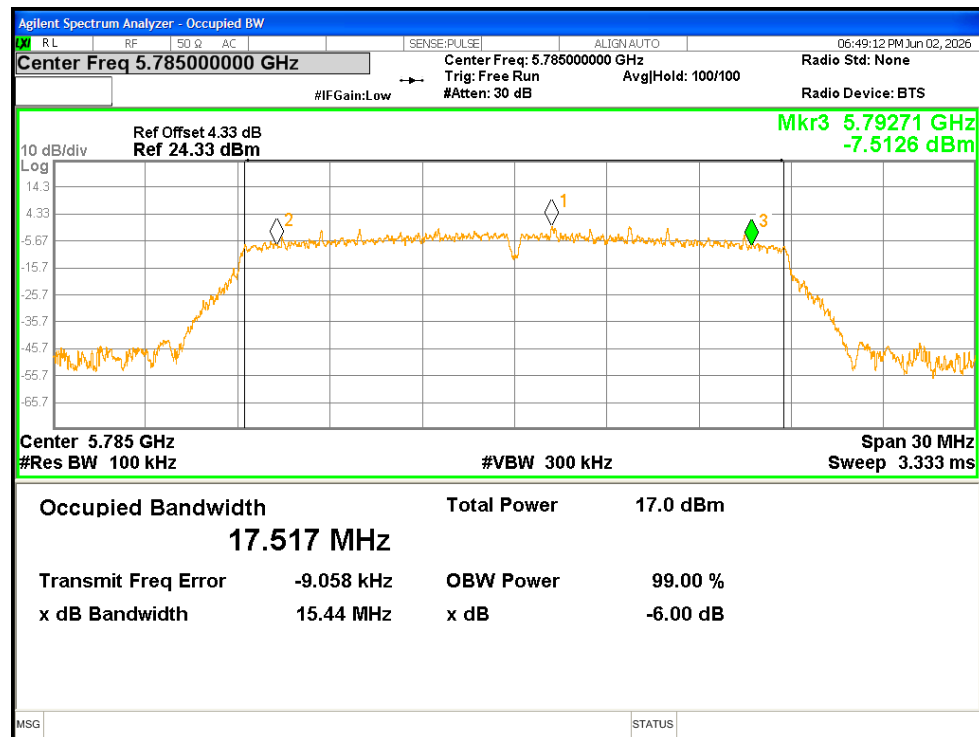
-6dB Bandwidth NVNT a 5825MHz



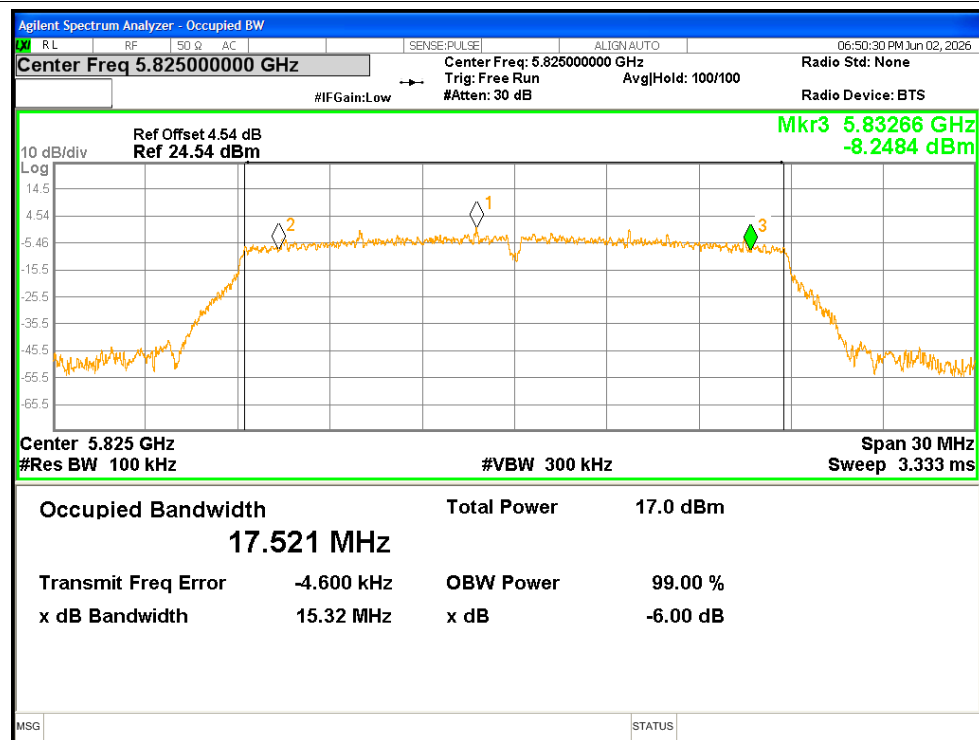
-6dB Bandwidth NVNT n20 5745MHz



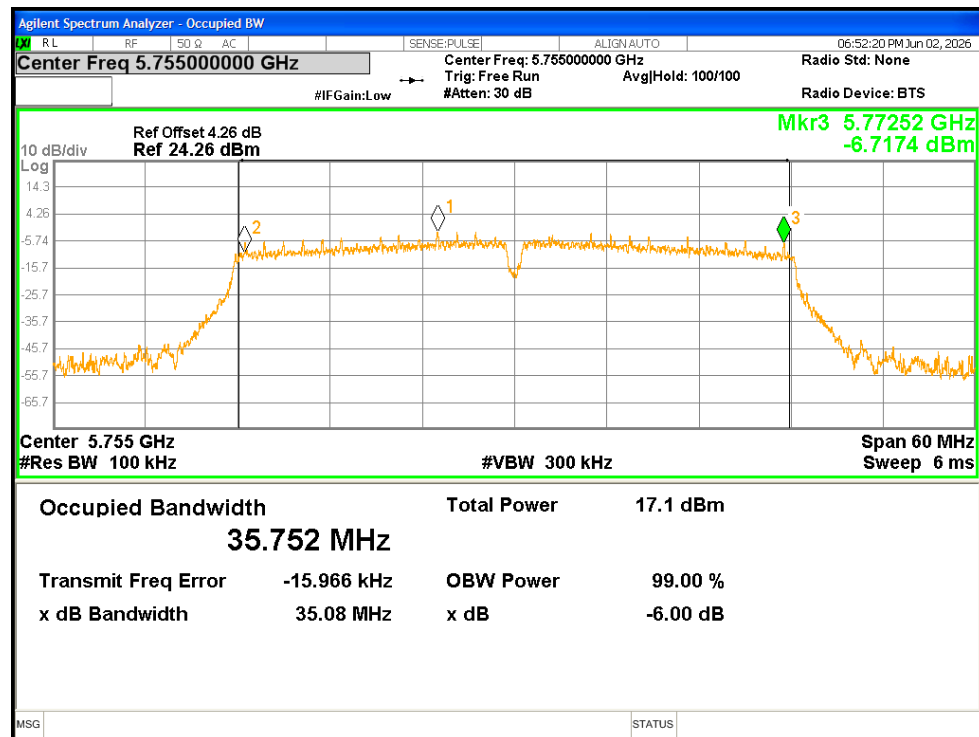
-6dB Bandwidth NVNT n20 5785MHz



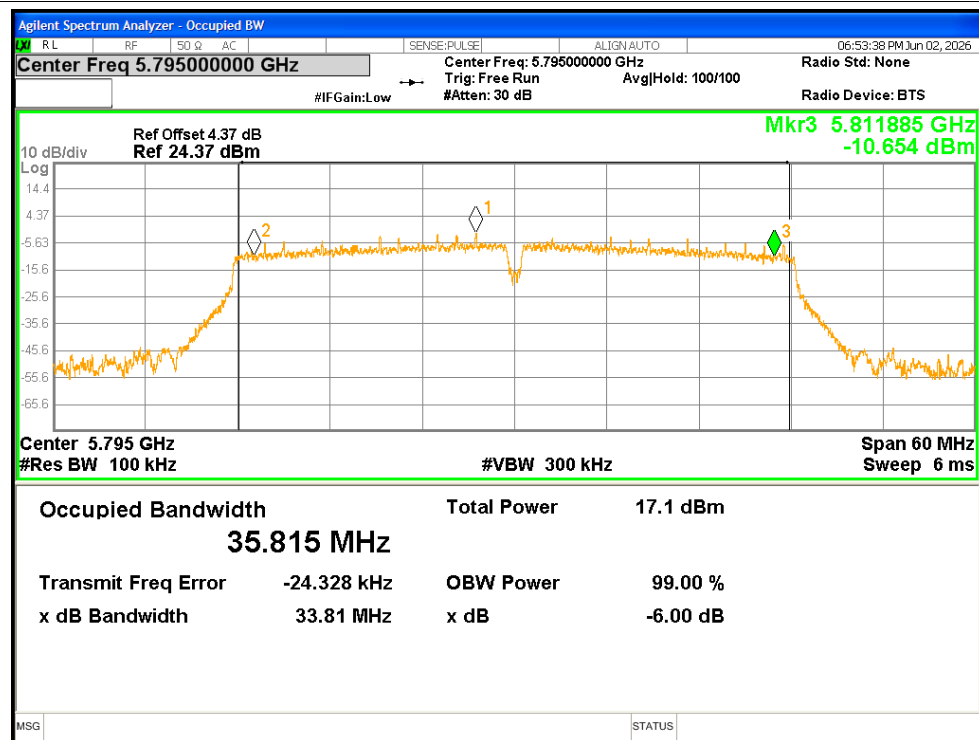
-6dB Bandwidth NVNT n20 5825MHz



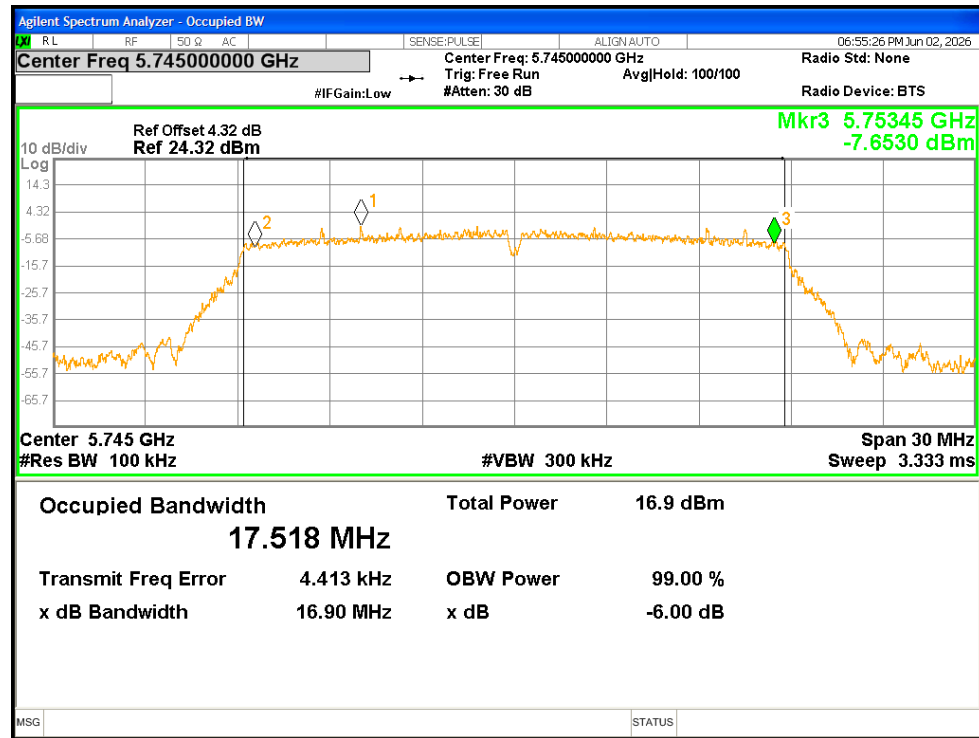
-6dB Bandwidth NVNT n40 5755MHz



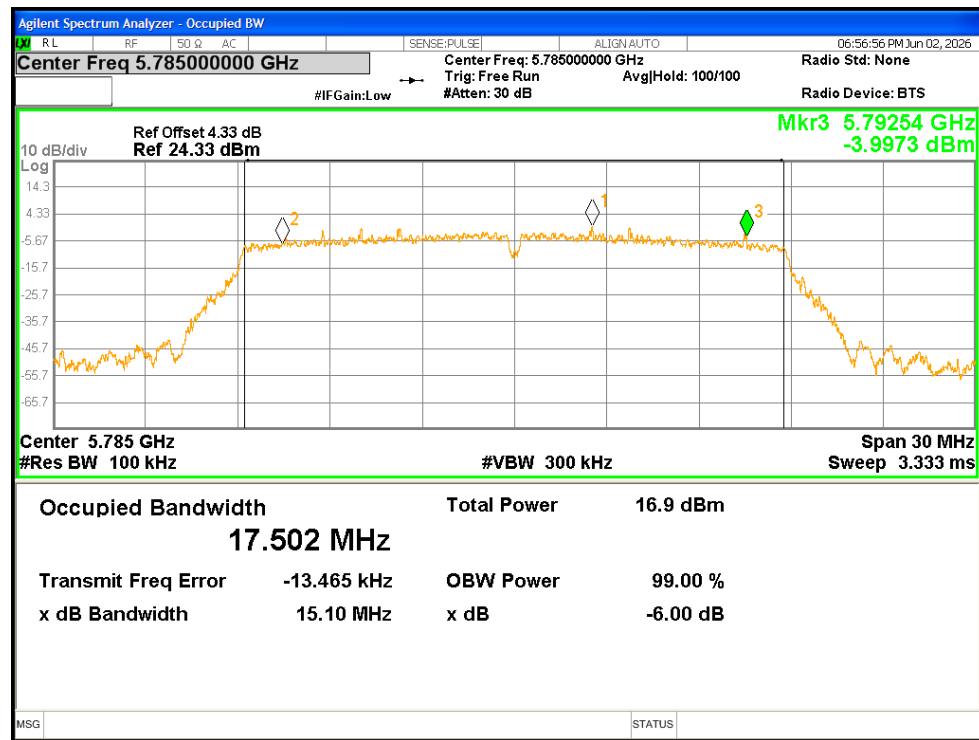
-6dB Bandwidth NVNT n40 5795MHz



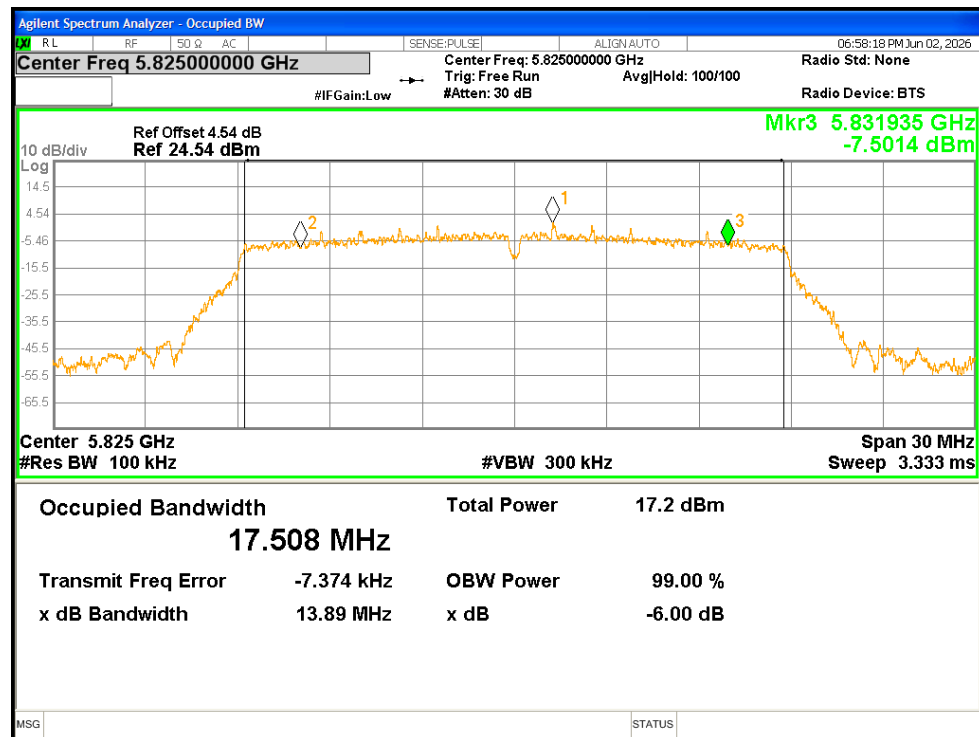
-6dB Bandwidth NVNT ac20 5745MHz



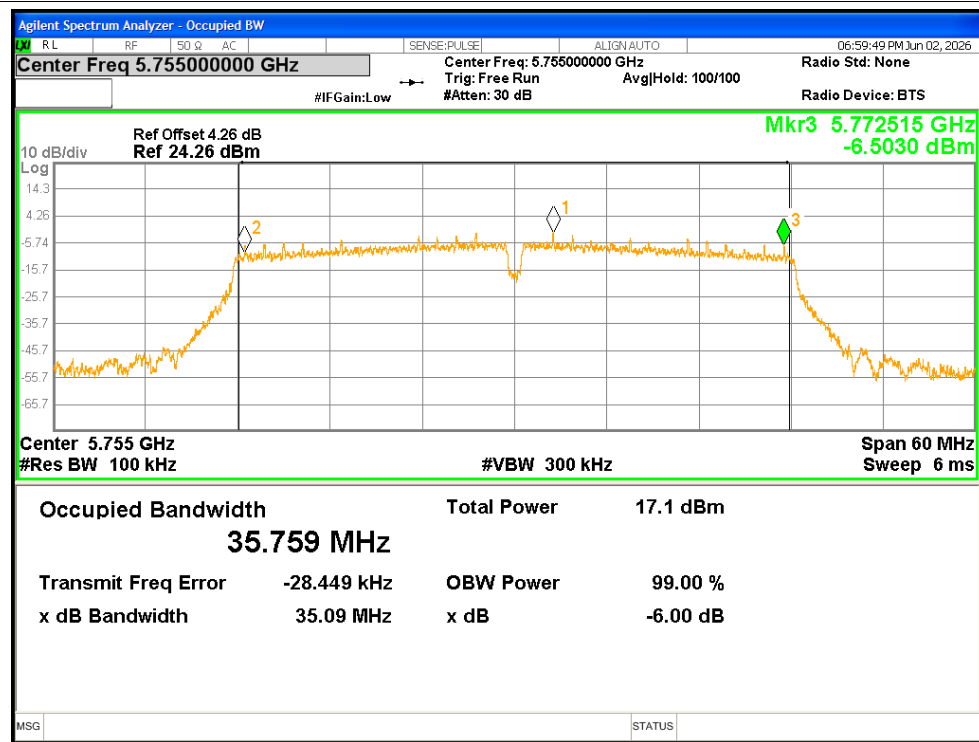
-6dB Bandwidth NVNT ac20 5785MHz



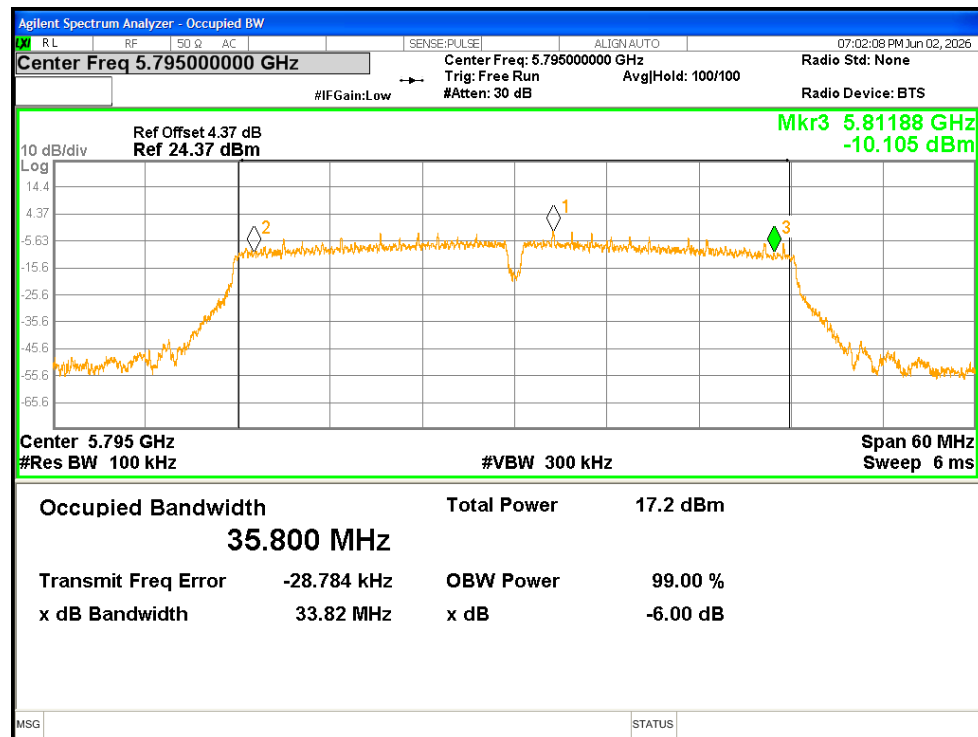
-6dB Bandwidth NVNT ac20 5825MHz



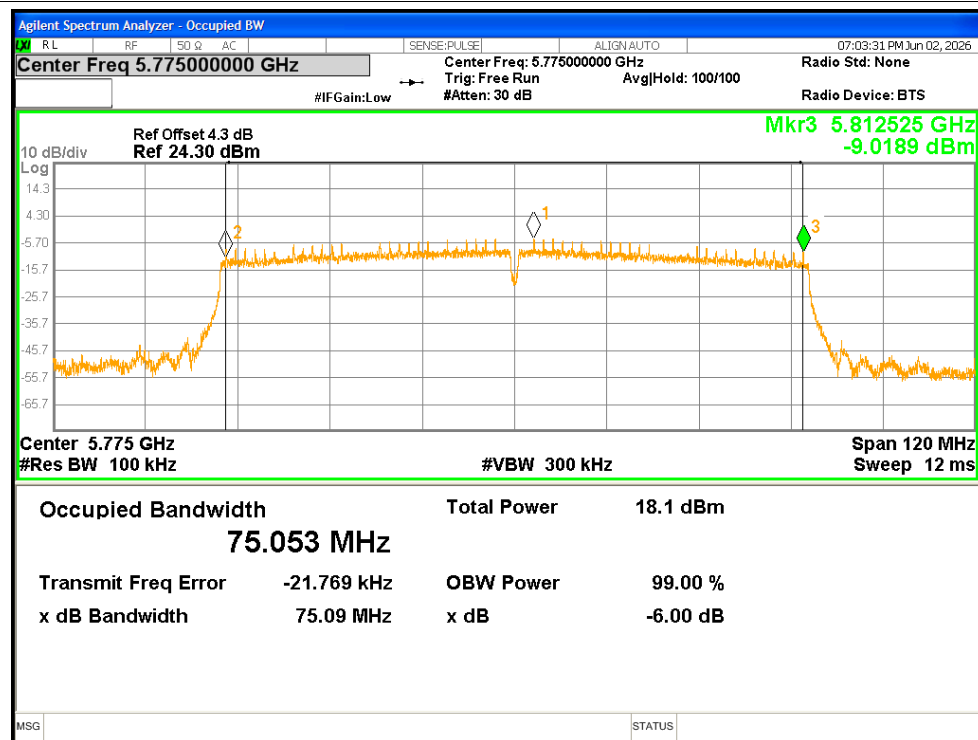
-6dB Bandwidth NVNT ac40 5755MHz



-6dB Bandwidth NVNT ac40 5795MHz



-6dB Bandwidth NVNT ac80 5775MHz

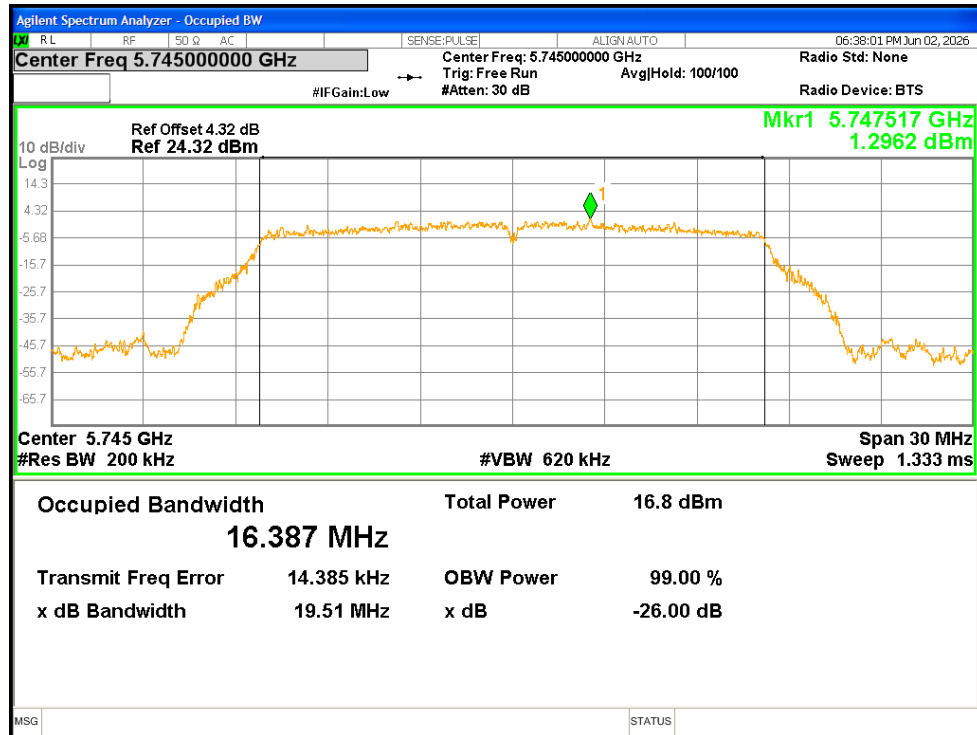


Occupied Channel Bandwidth

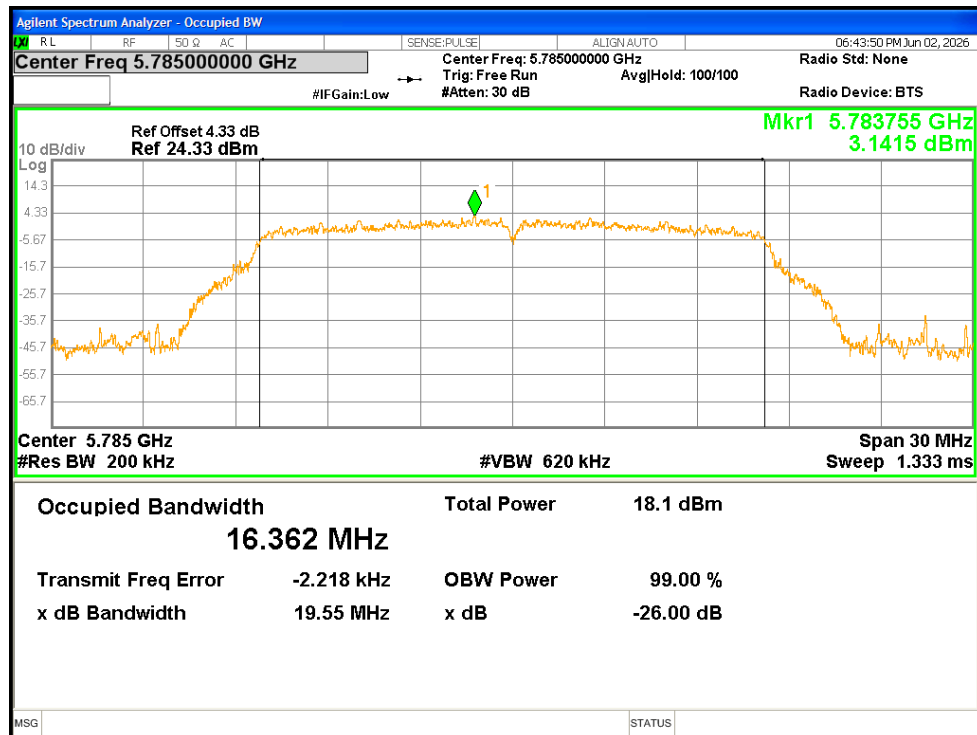
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	16.387
NVNT	a	5785	16.362
NVNT	a	5825	16.366
NVNT	n20	5745	17.539
NVNT	n20	5785	17.514
NVNT	n20	5825	17.535
NVNT	n40	5755	35.873
NVNT	n40	5795	35.95
NVNT	ac20	5745	17.533
NVNT	ac20	5785	17.508
NVNT	ac20	5825	17.544
NVNT	ac40	5755	35.878
NVNT	ac40	5795	35.948
NVNT	ac80	5775	75.099

Test Graphs

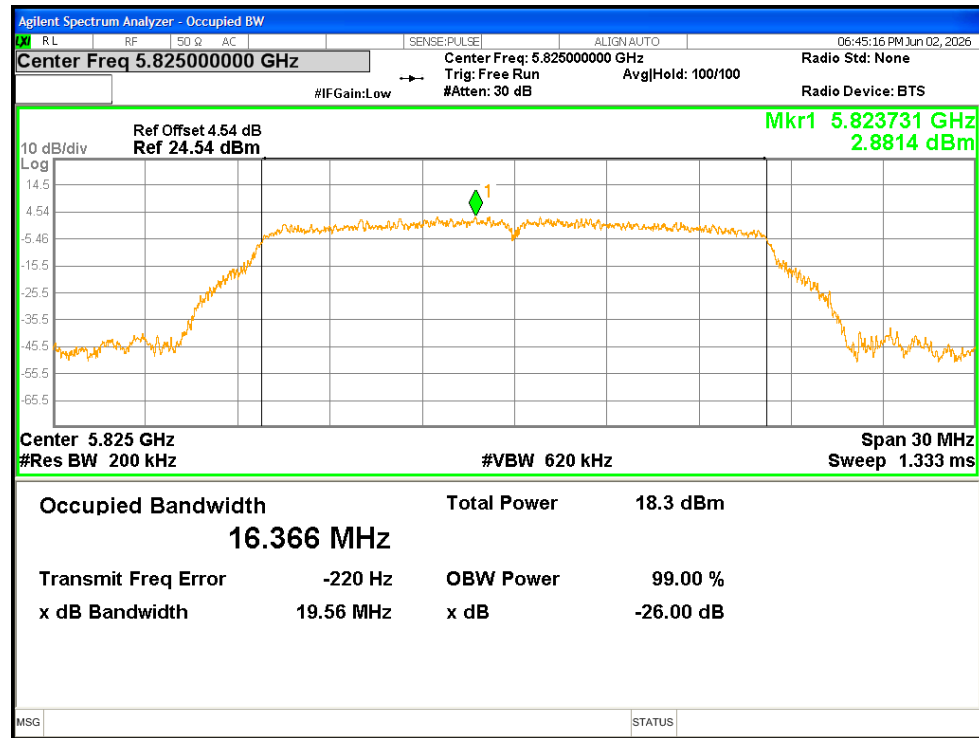
OBW NVNT a 5745MHz



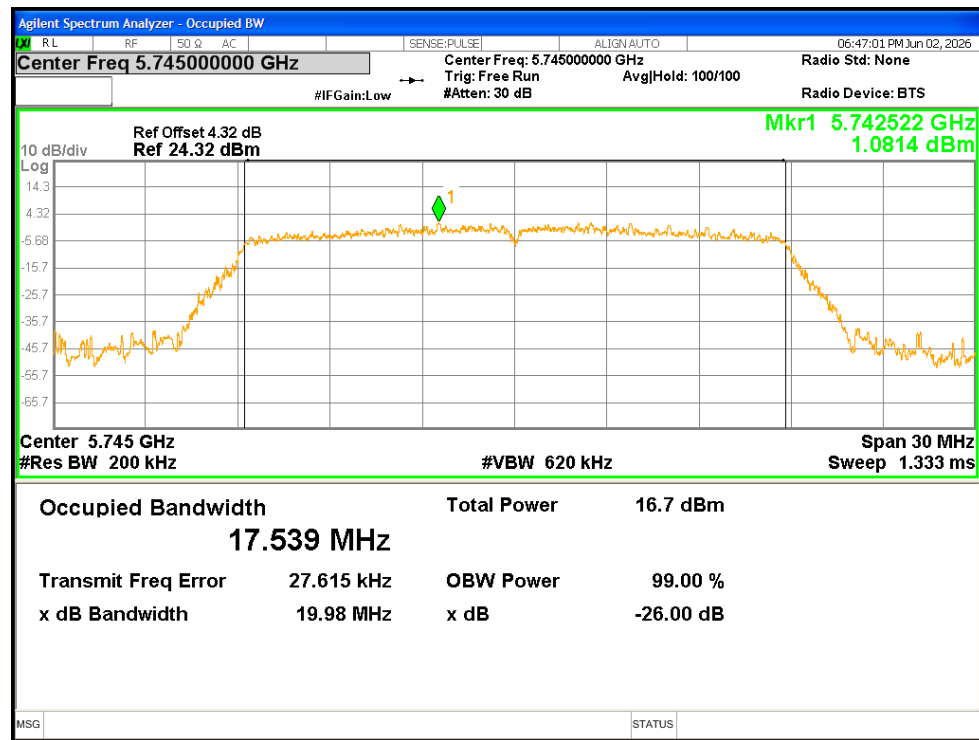
OBW NVNT a 5785MHz



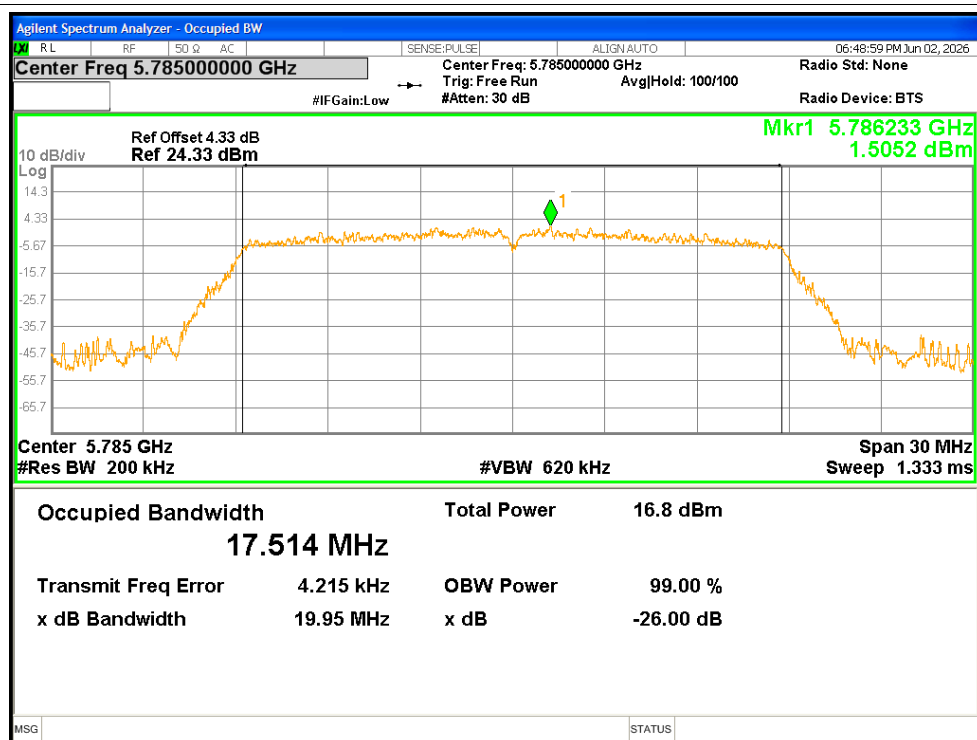
OBW NVNT a 5825MHz



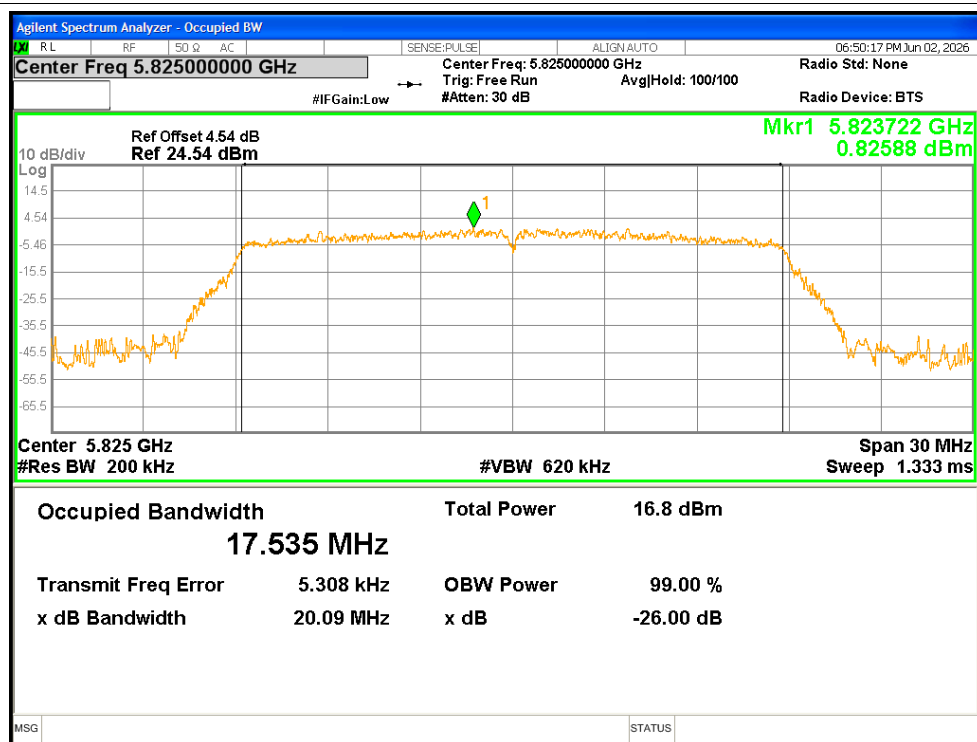
OBW NVNT n20 5745MHz



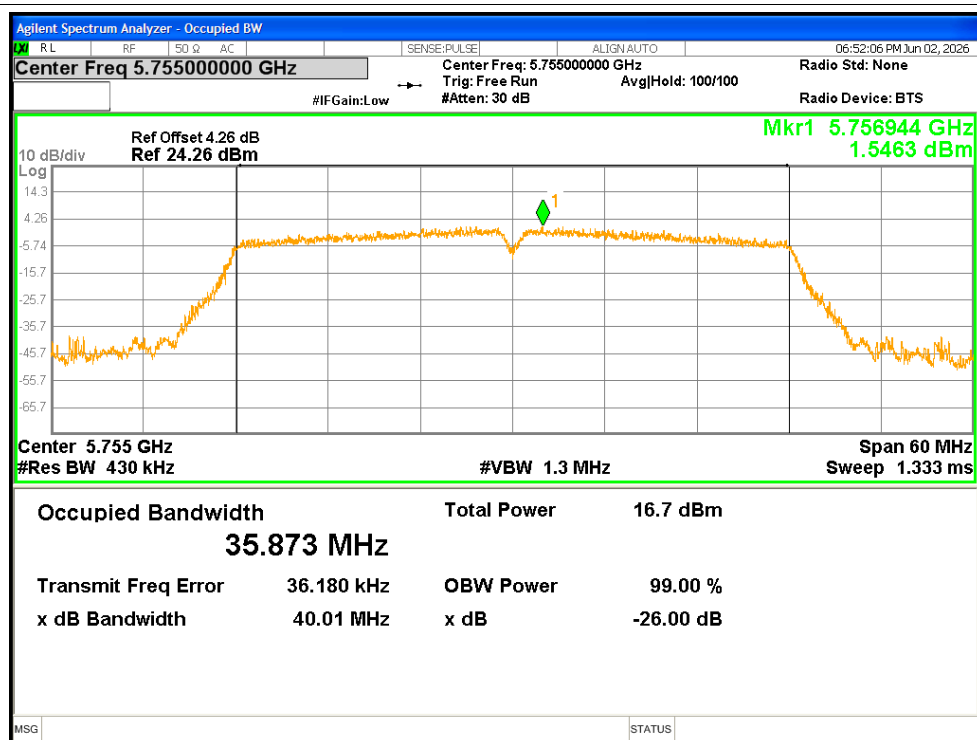
OBW NVNT n20 5785MHz



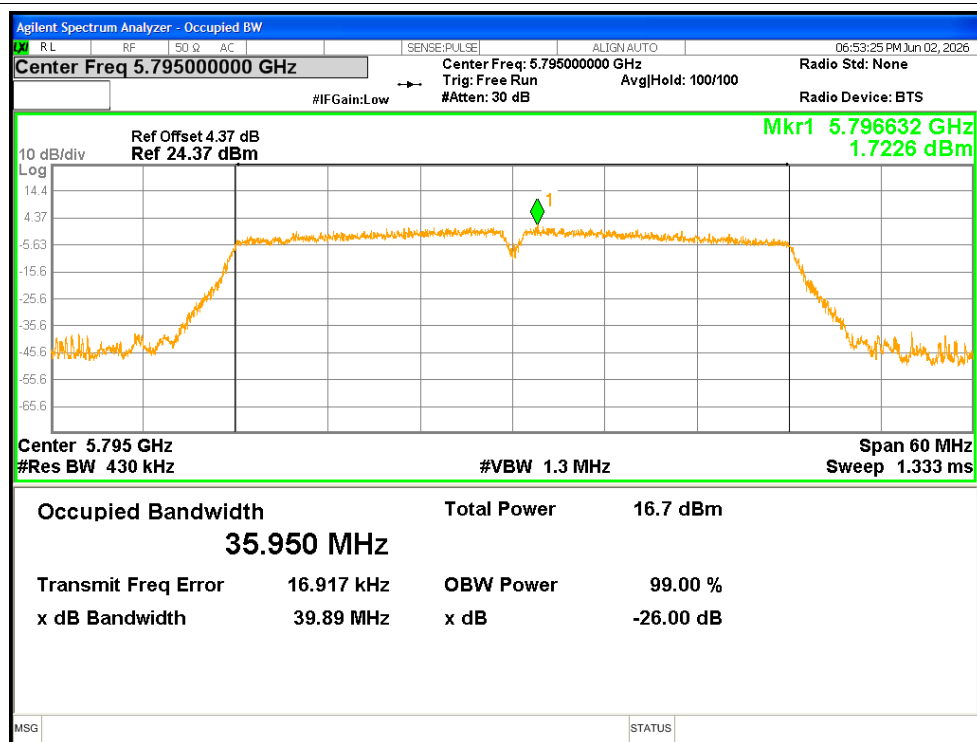
OBW NVNT n20 5825MHz



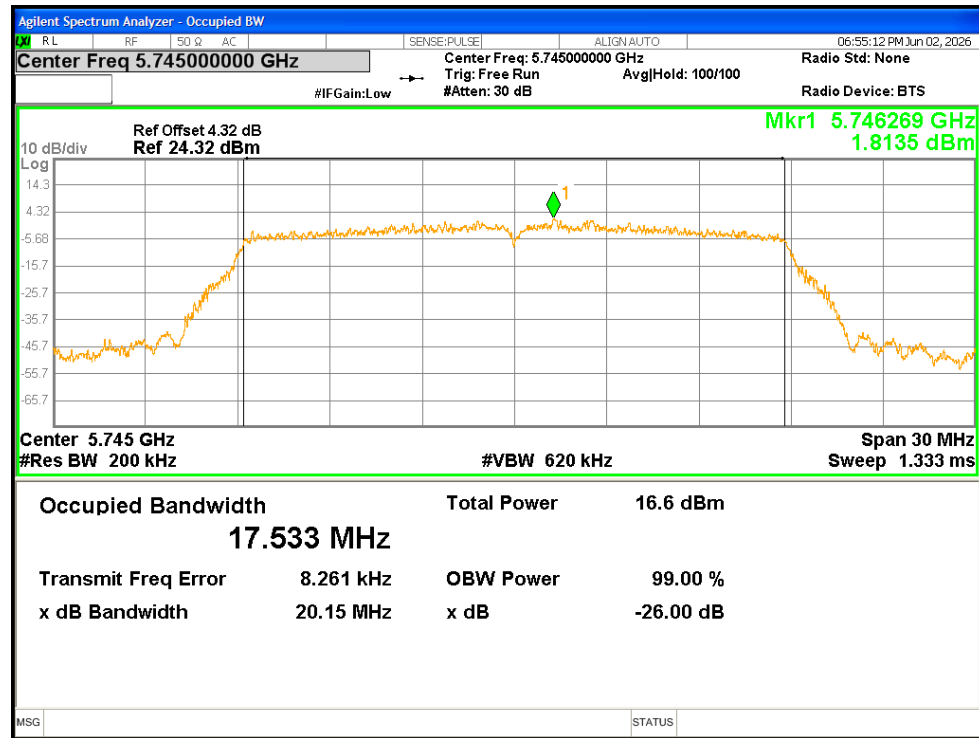
OBW NVNT n40 5755MHz



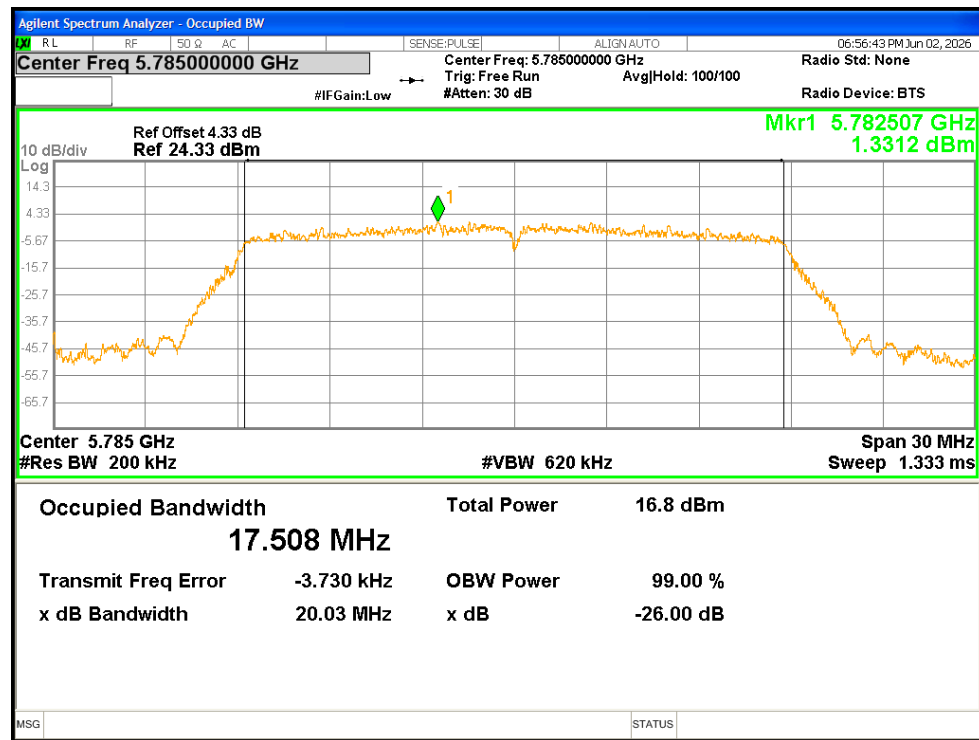
OBW NVNT n40 5795MHz



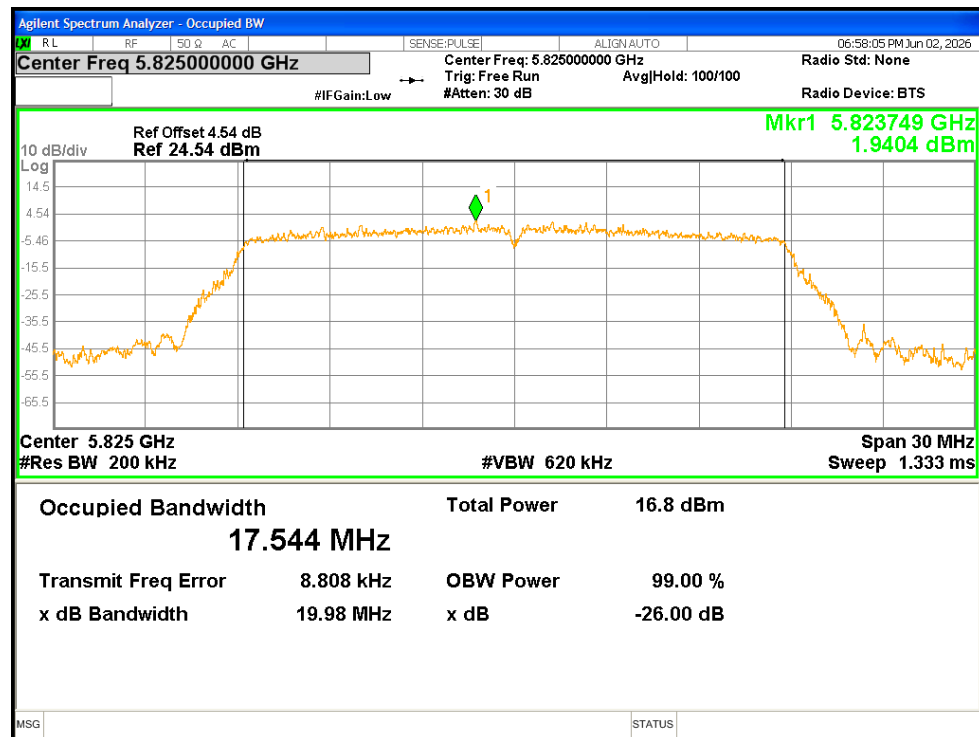
OBW NVNT ac20 5745MHz



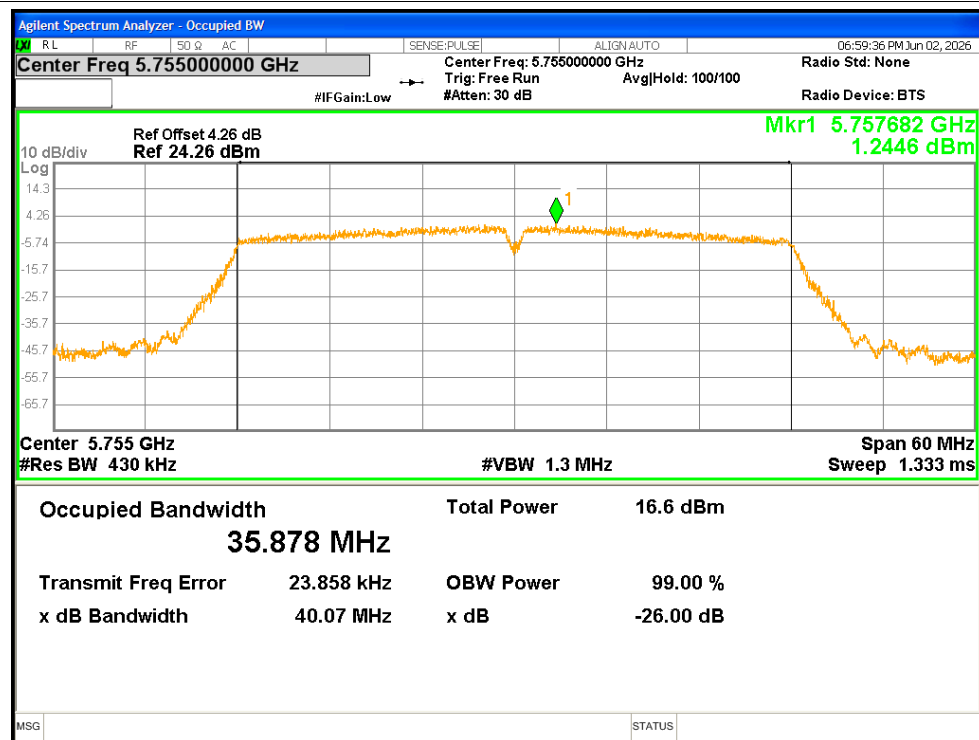
OBW NVNT ac20 5785MHz



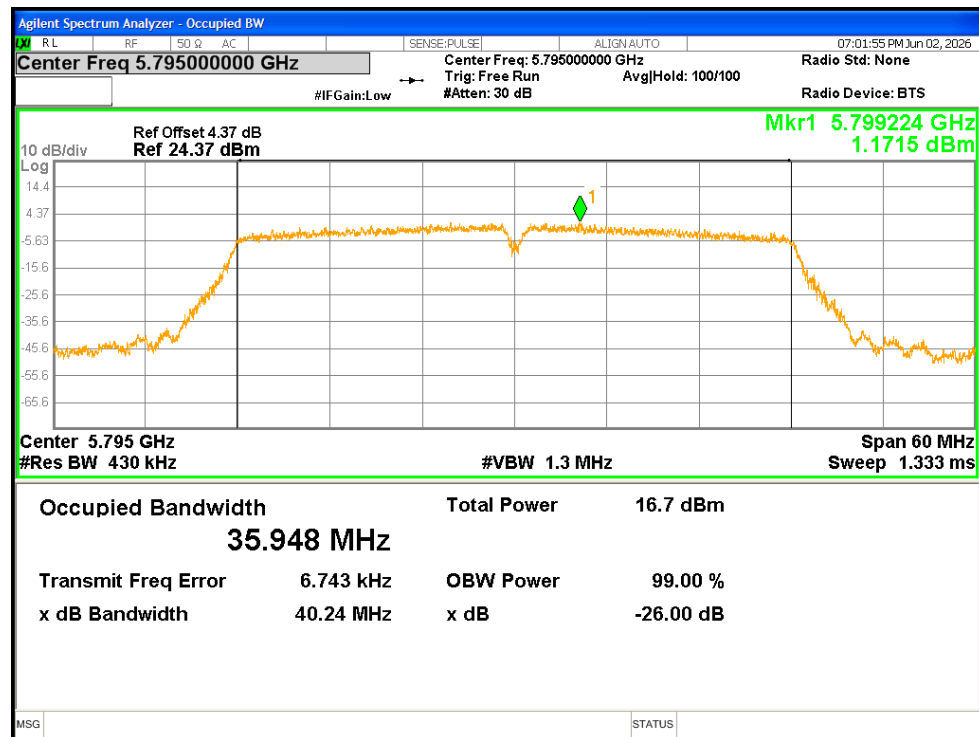
OBW NVNT ac20 5825MHz



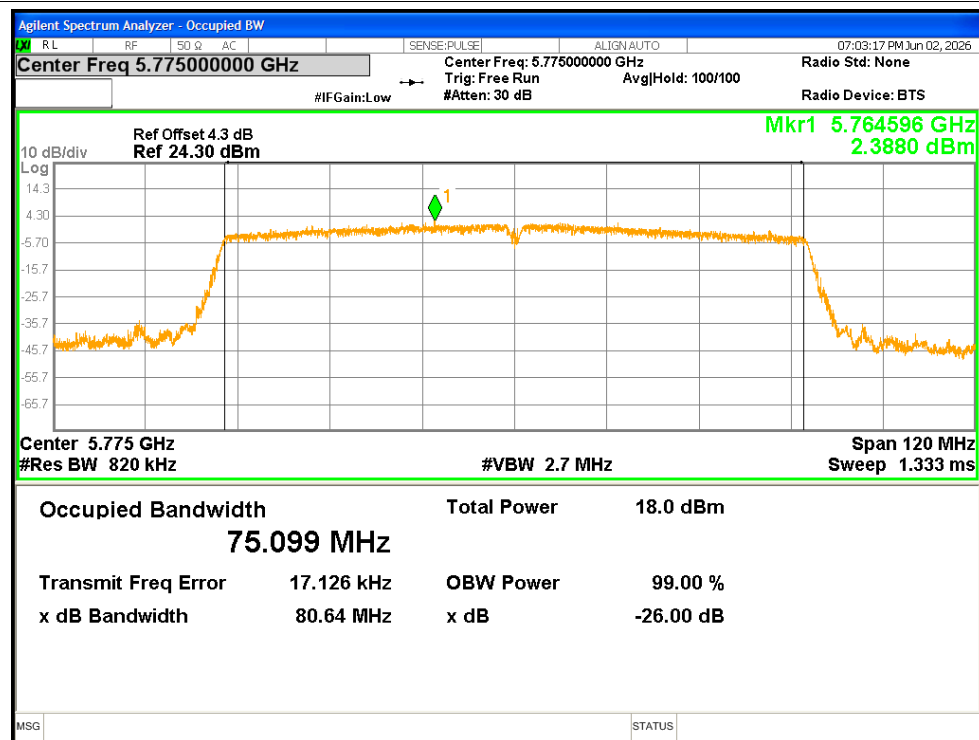
OBW NVNT ac40 5755MHz



OBW NVNT ac40 5795MHz



OBW NVNT ac80 5775MHz

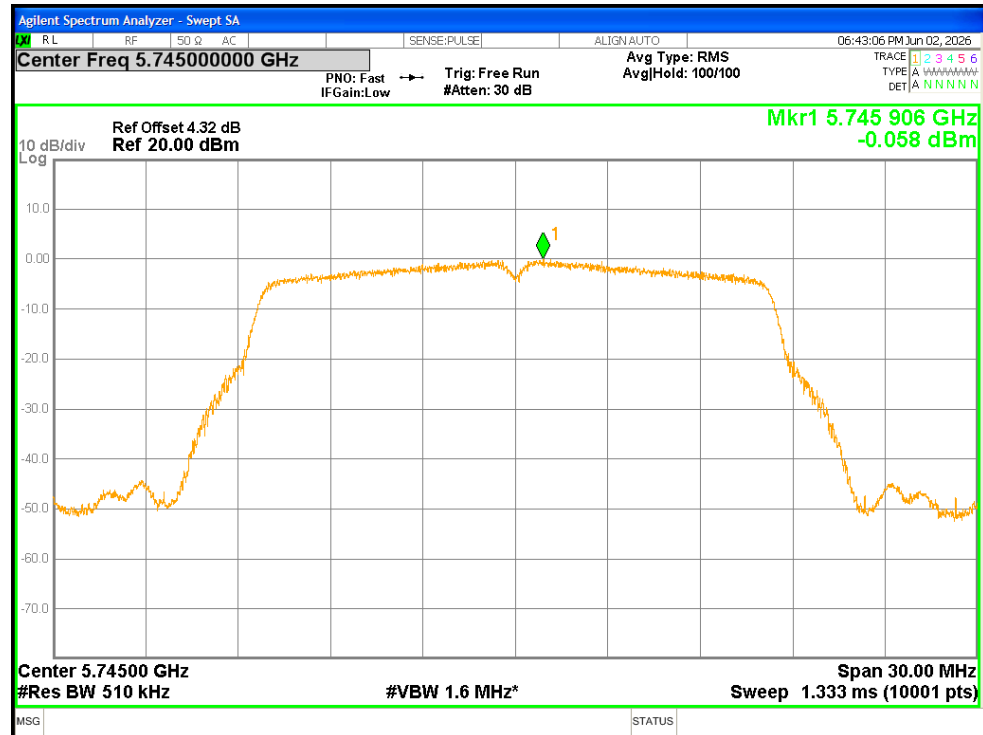


Maximum Power Spectral Density Level

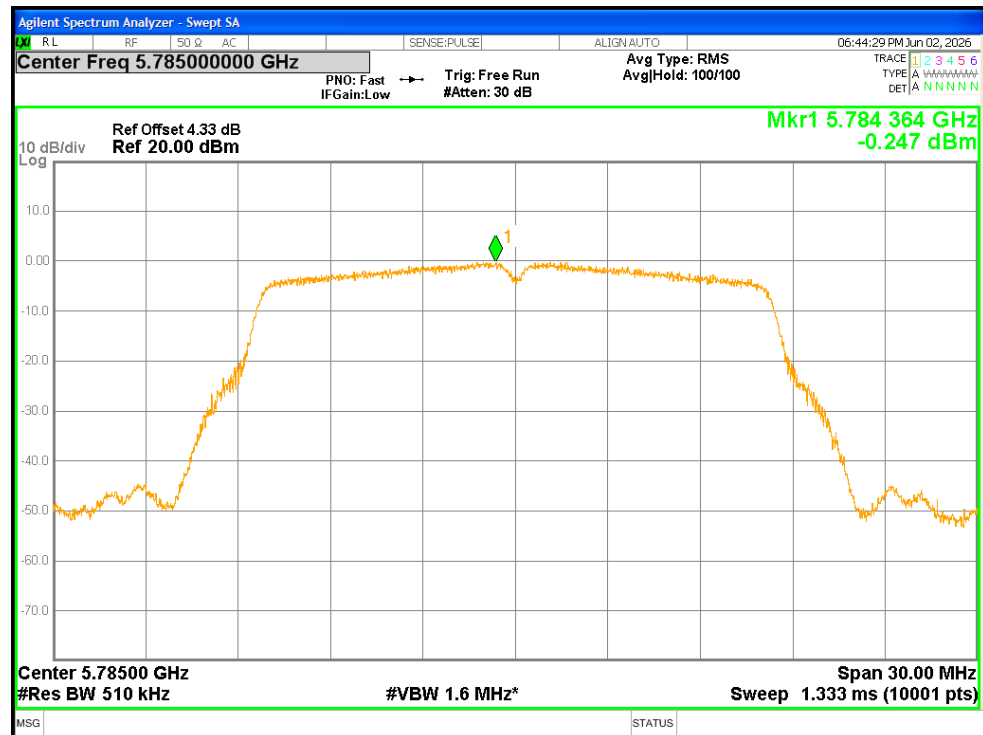
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510kHz)	Duty Factor (dB)	Total PSD (dBm/510kHz)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
NVNT	a	5745	-0.058	0.11	0.052	-0.03	<=30	Pass
NVNT	a	5785	-0.247	0.11	-0.137	-0.22	<=30	Pass
NVNT	a	5825	0.133	0.11	0.243	0.16	<=30	Pass
NVNT	n20	5745	-1.827	0.11	-1.717	-1.8	<=30	Pass
NVNT	n20	5785	-1.749	0.12	-1.629	-1.72	<=30	Pass
NVNT	n20	5825	-1.22	0.12	-1.1	-1.19	<=30	Pass
NVNT	n40	5755	-4.567	0.22	-4.347	-4.43	<=30	Pass
NVNT	n40	5795	-4.835	0.22	-4.615	-4.7	<=30	Pass
NVNT	ac20	5745	-1.314	0.12	-1.194	-1.28	<=30	Pass
NVNT	ac20	5785	-1.555	0.11	-1.445	-1.53	<=30	Pass
NVNT	ac20	5825	-1.429	0.12	-1.309	-1.4	<=30	Pass
NVNT	ac40	5755	-4.679	0.23	-4.449	-4.54	<=30	Pass
NVNT	ac40	5795	-5.022	0.22	-4.802	-4.89	<=30	Pass
NVNT	ac80	5775	-7.405	0.43	-6.975	-7.06	<=30	Pass

Test Graphs

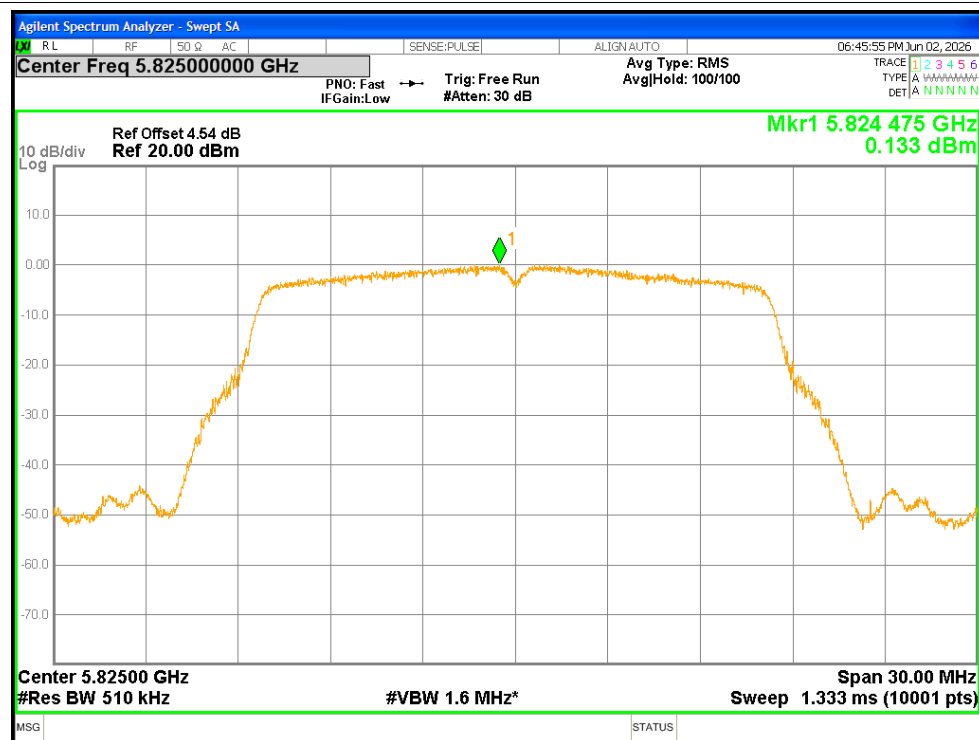
PSD NVNT a 5745MHz



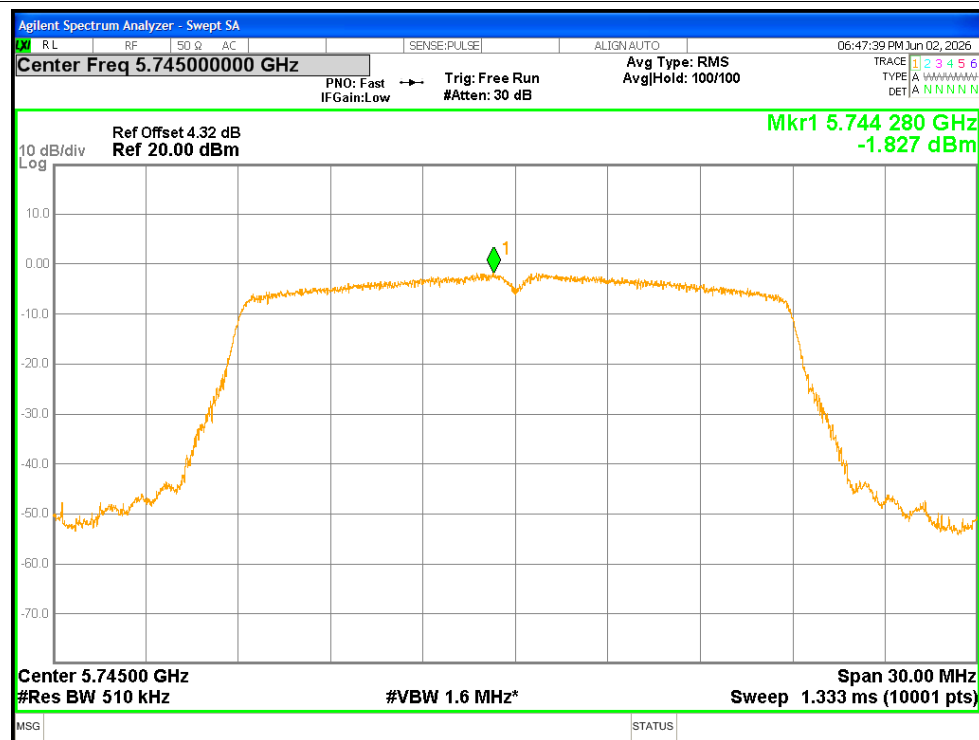
PSD NVNT a 5785MHz



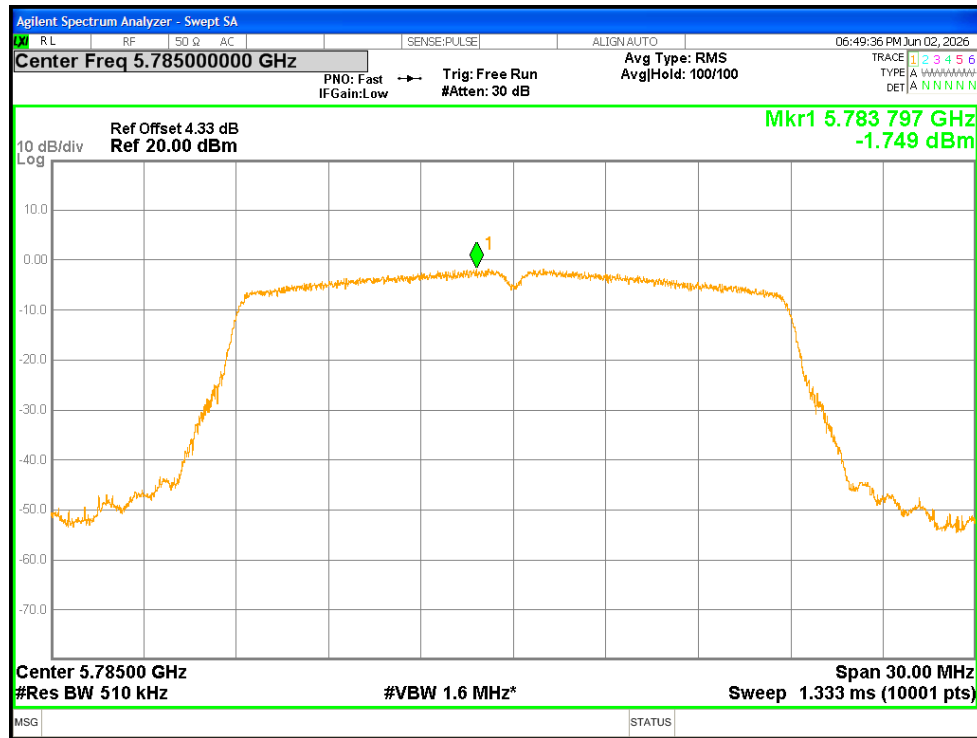
PSD NVNT a 5825MHz



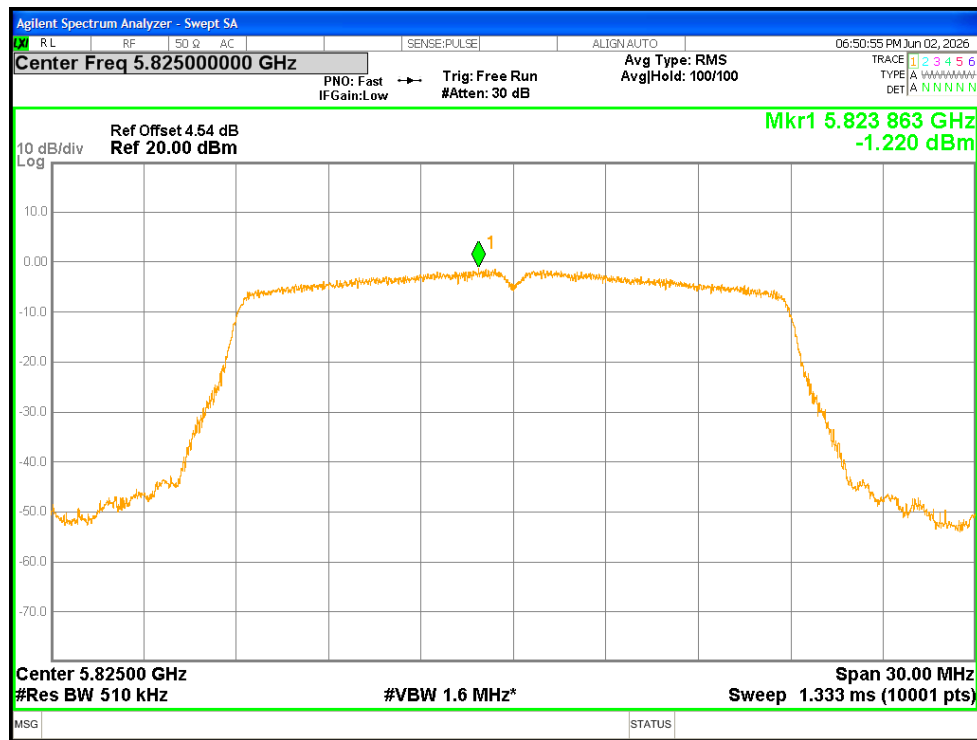
PSD NVNT n20 5745MHz



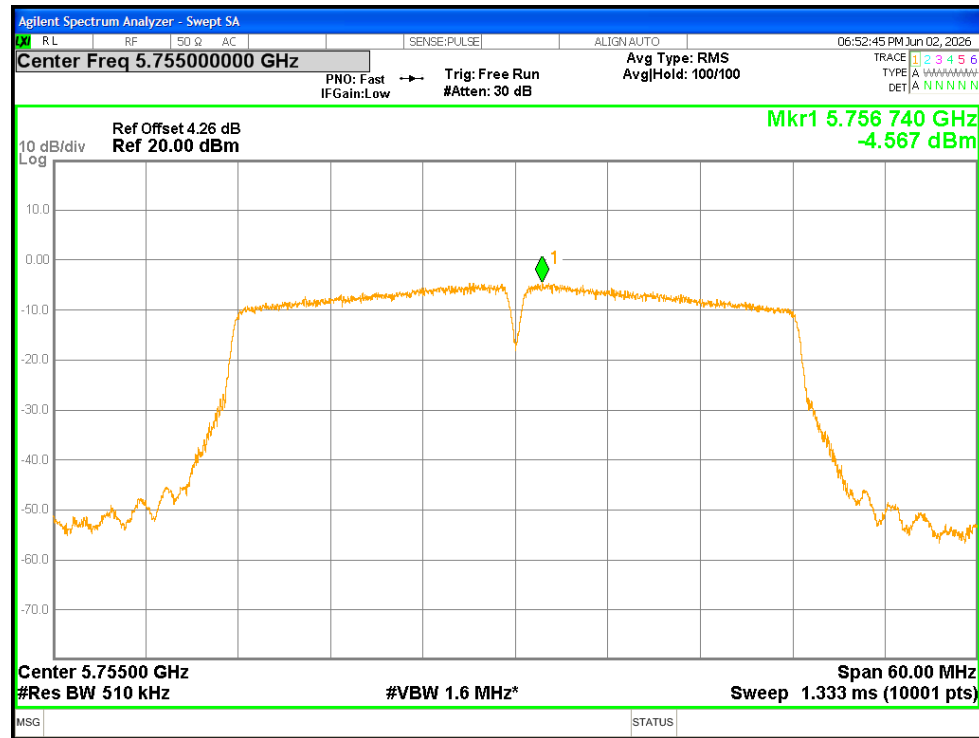
PSD NVNT n20 5785MHz



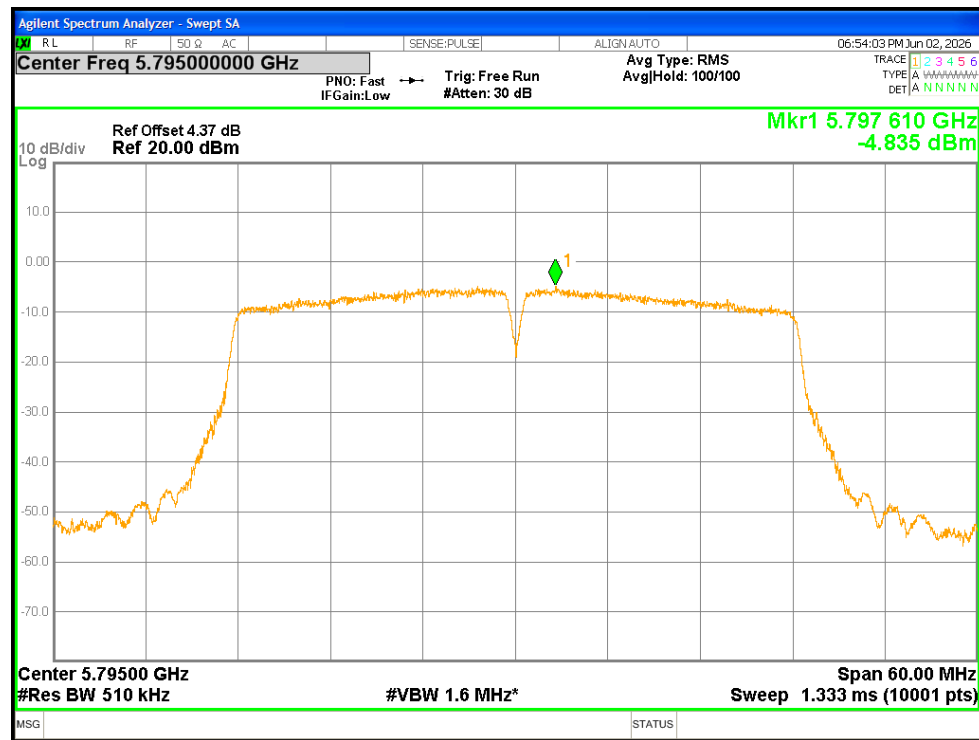
PSD NVNT n20 5825MHz



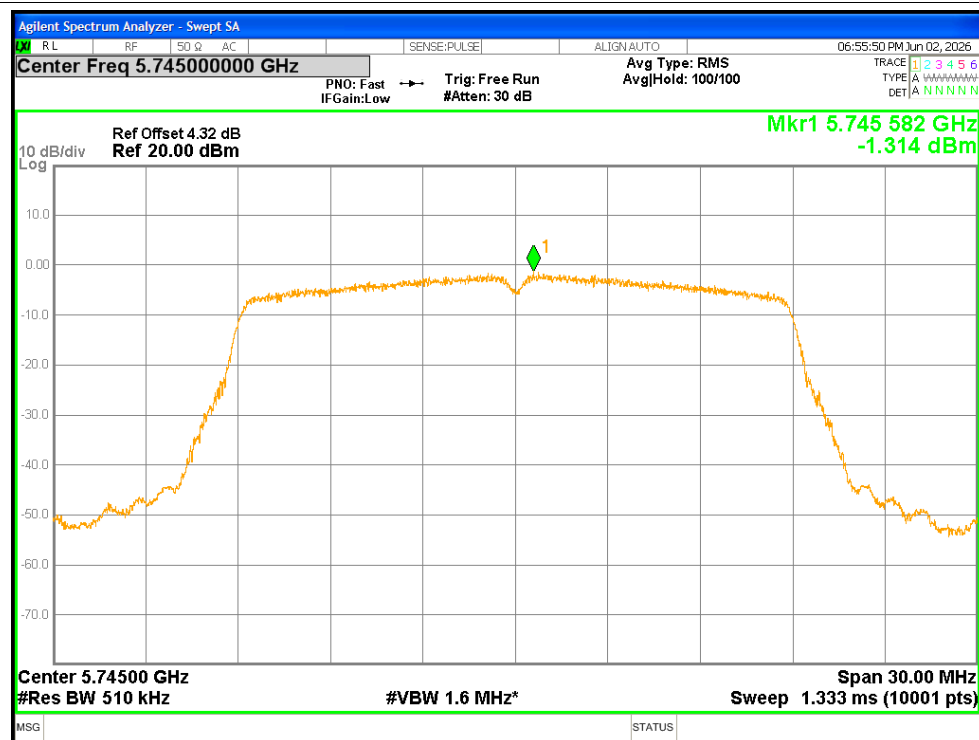
PSD NVNT n40 5755MHz



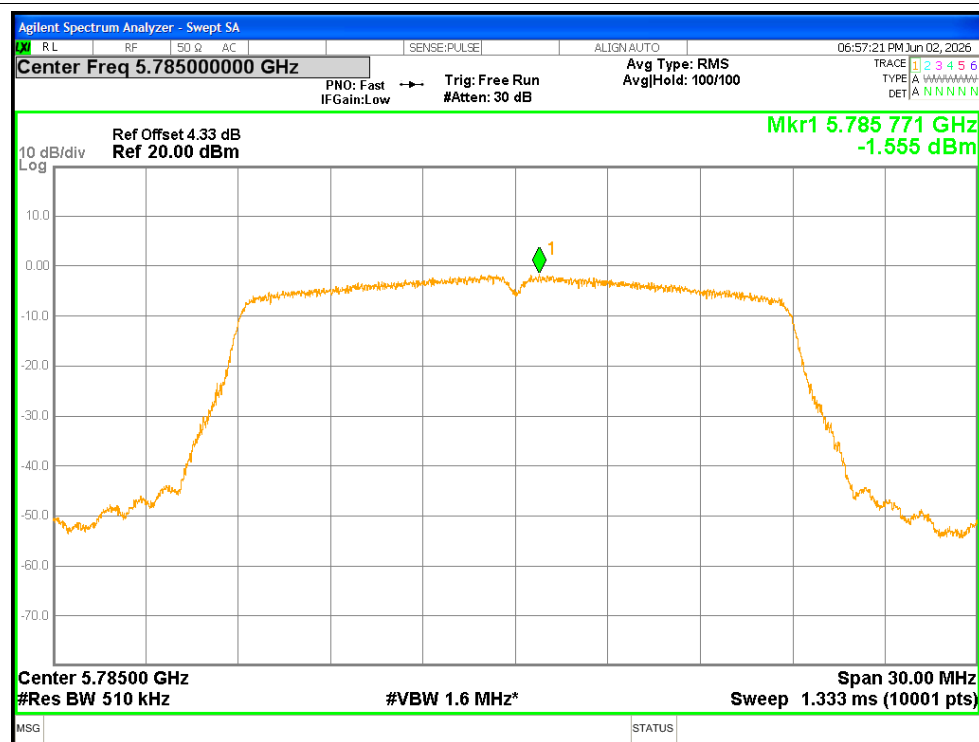
PSD NVNT n40 5795MHz



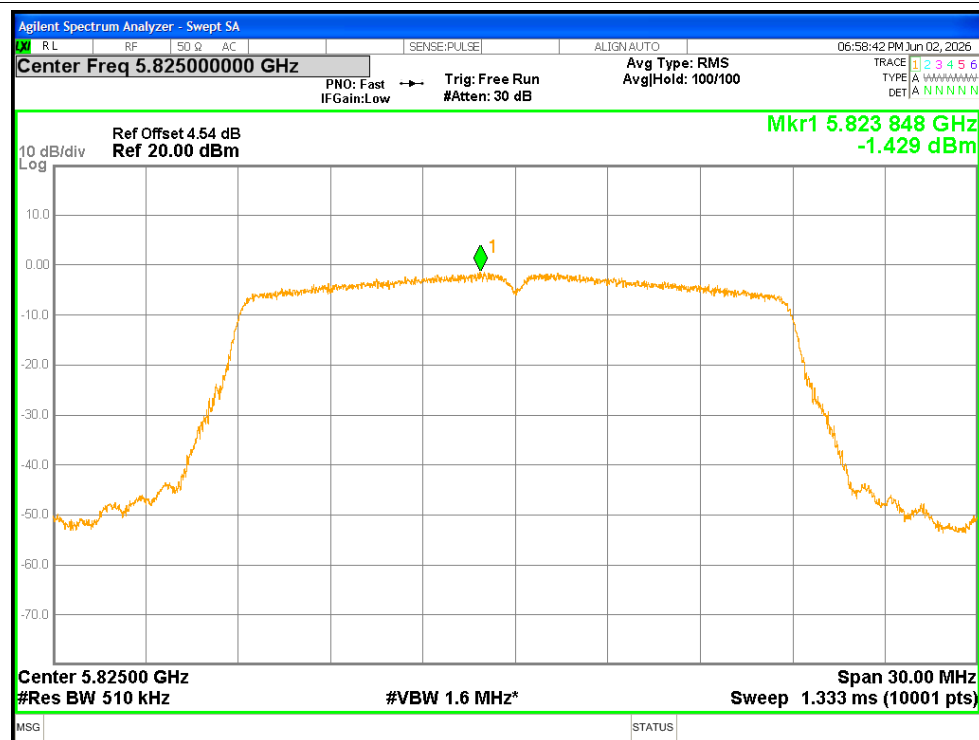
PSD NVNT ac20 5745MHz



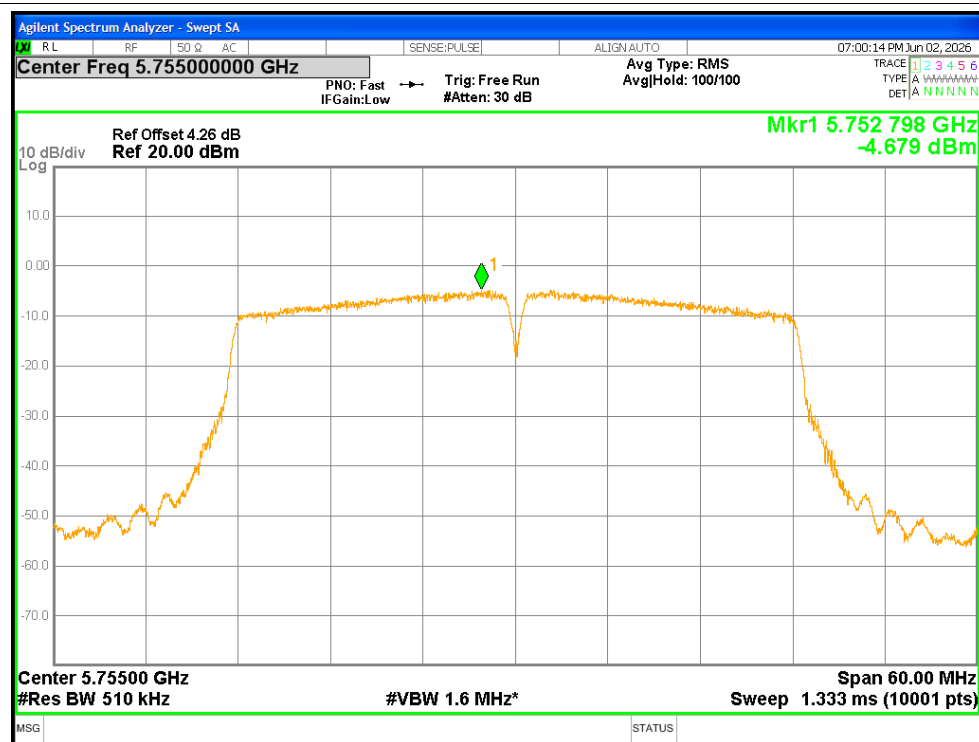
PSD NVNT ac20 5785MHz



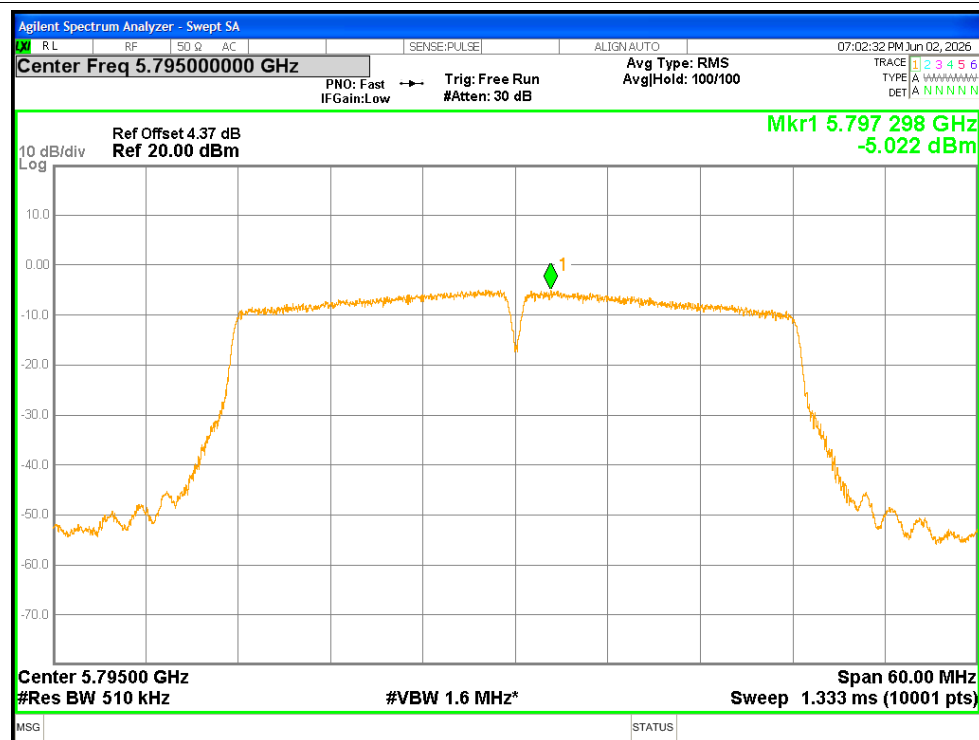
PSD NVNT ac20 5825MHz



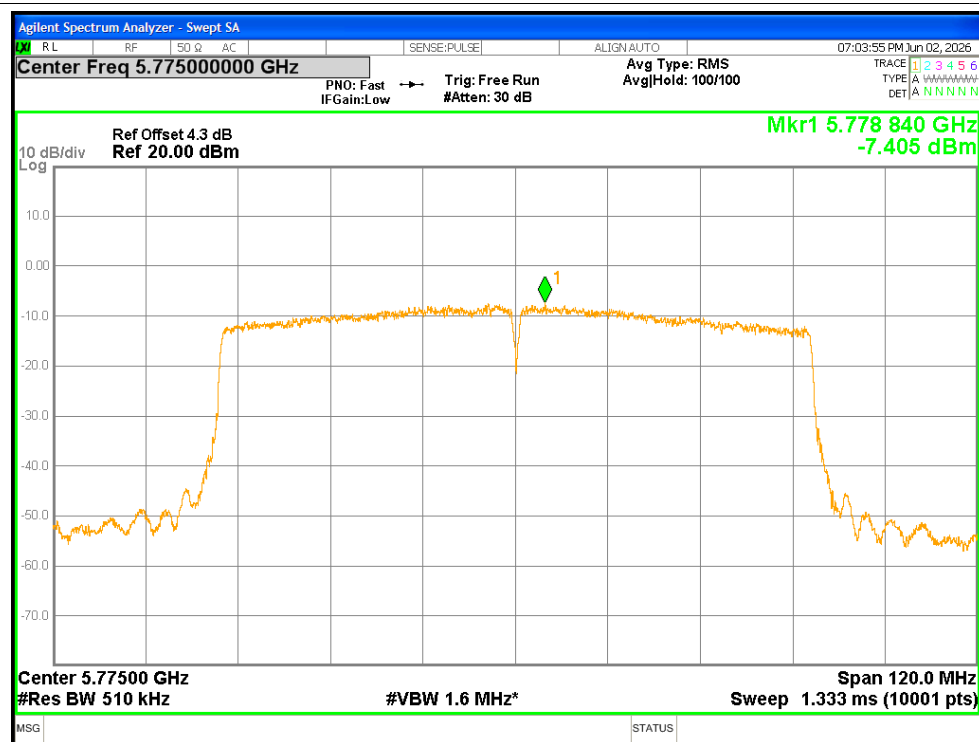
PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz



PSD NVNT ac80 5775MHz

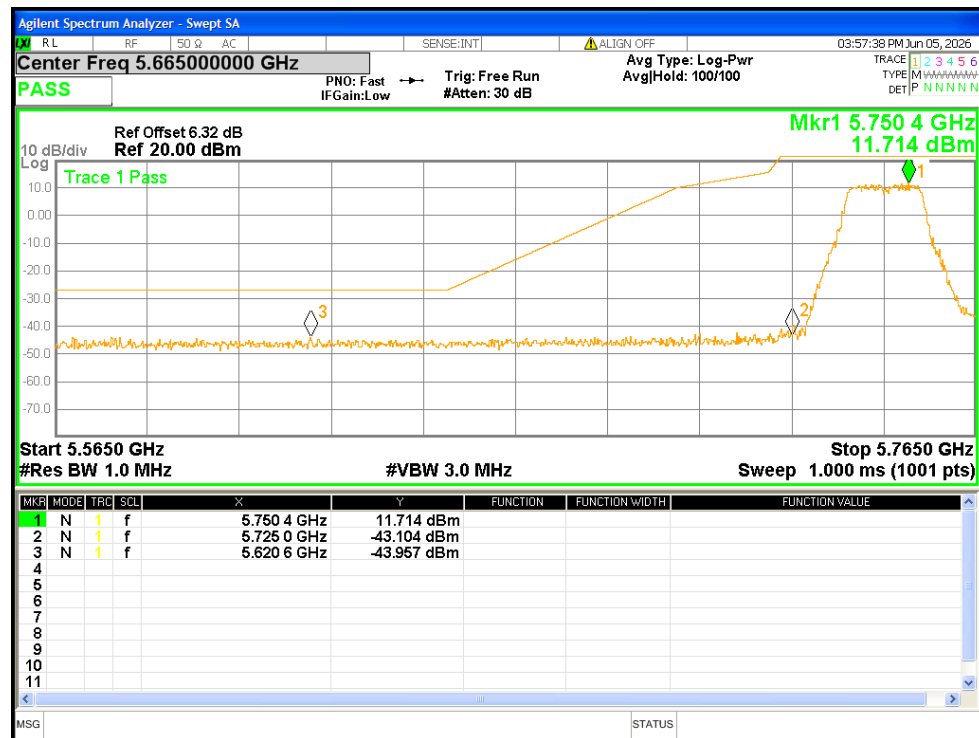


Band Edge

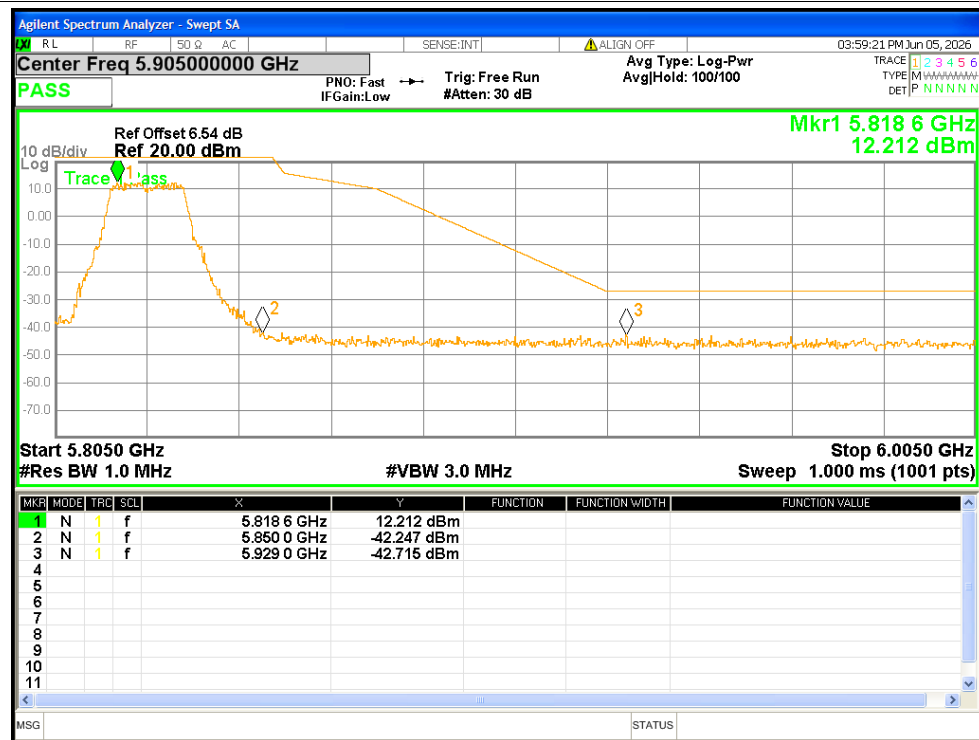
Mode	Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
a	5745	-43.95	-27	Pass
a	5825	-42.71	-27	Pass
n20	5745	-42.67	-27	Pass
n20	5825	-42.89	-27	Pass
n40	5755	-42.52	-27	Pass
n40	5795	-43.57	-27	Pass
ac20	5745	-43.87	-27	Pass
ac20	5825	-42.78	-27	Pass
ac40	5755	-43.78	-27	Pass
ac40	5795	-43.68	-27	Pass
ac80	5775	-44.34	-27	Pass
ac80	5775	-44.45	-27	Pass

Test Graphs

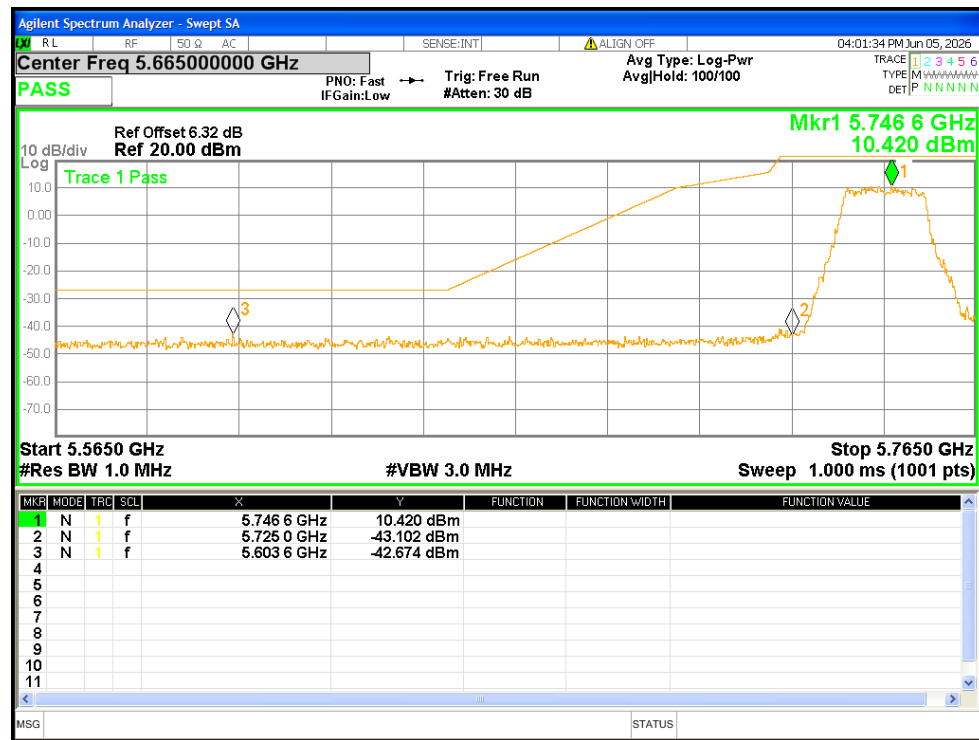
Band Edge NVNT a 5745MHz Low



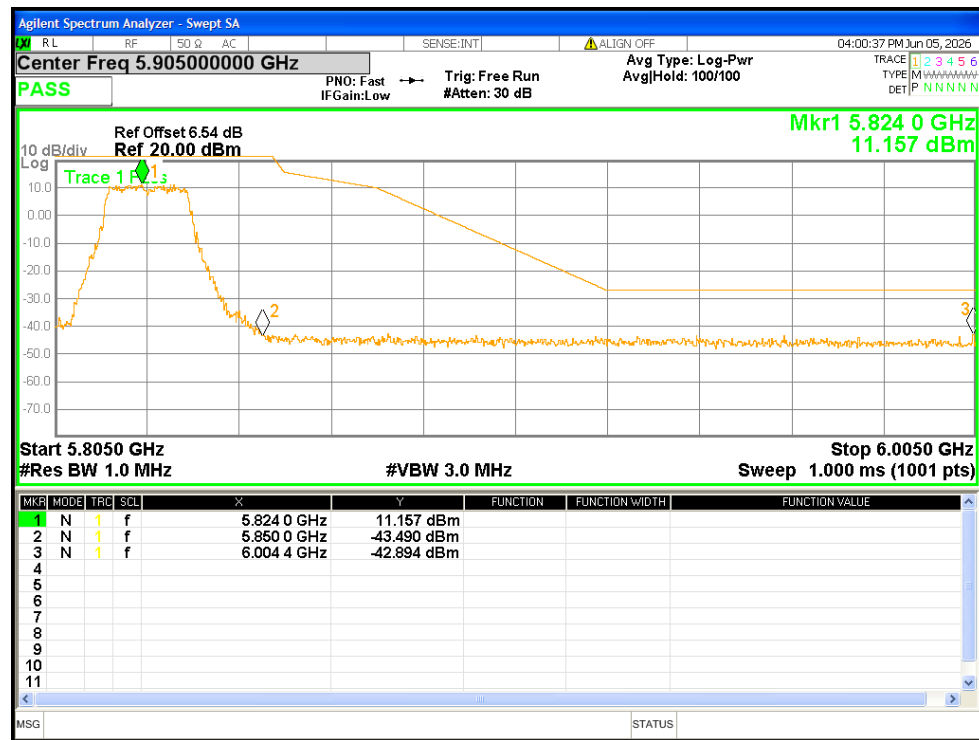
Band Edge NVNT a 5825MHz High



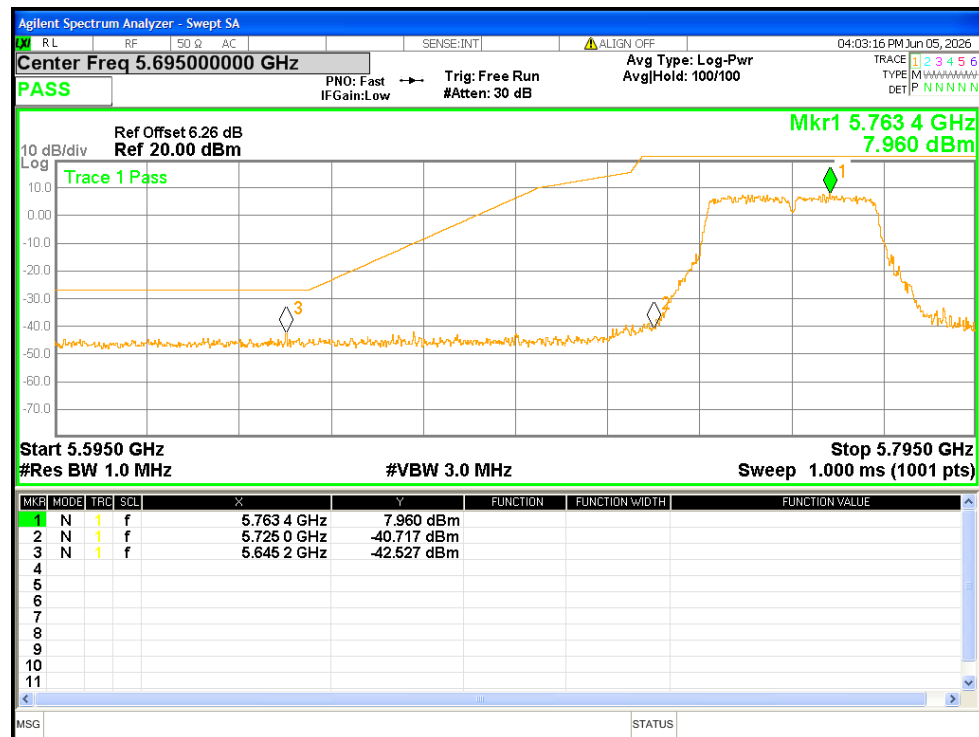
Band Edge NVNT n20 5745MHz Low



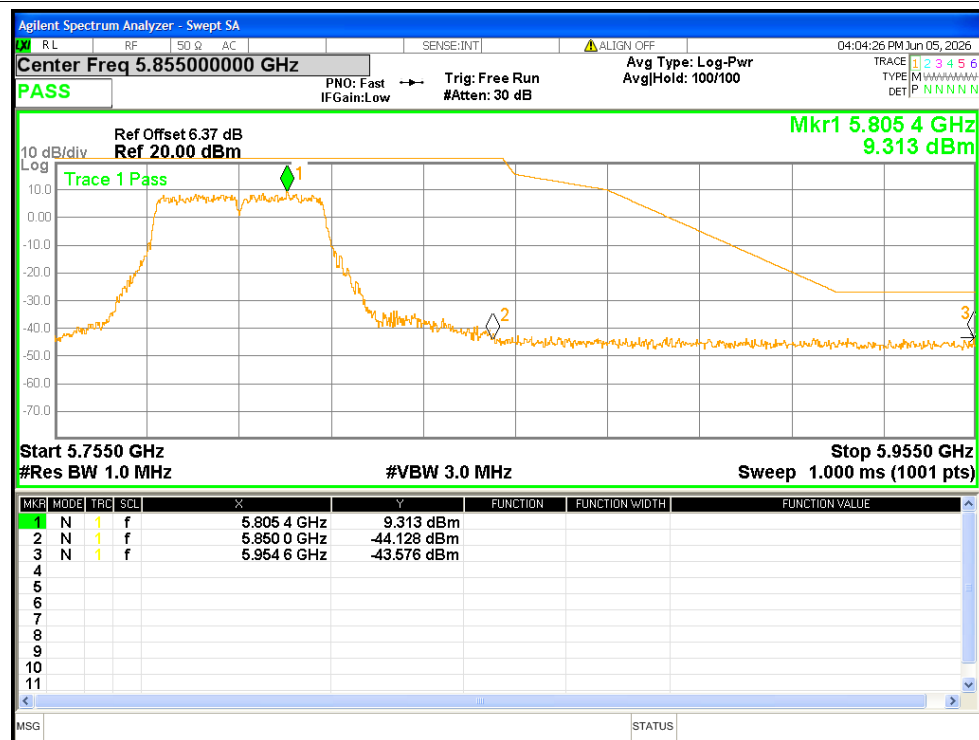
Band Edge NVNT n20 5825MHz High



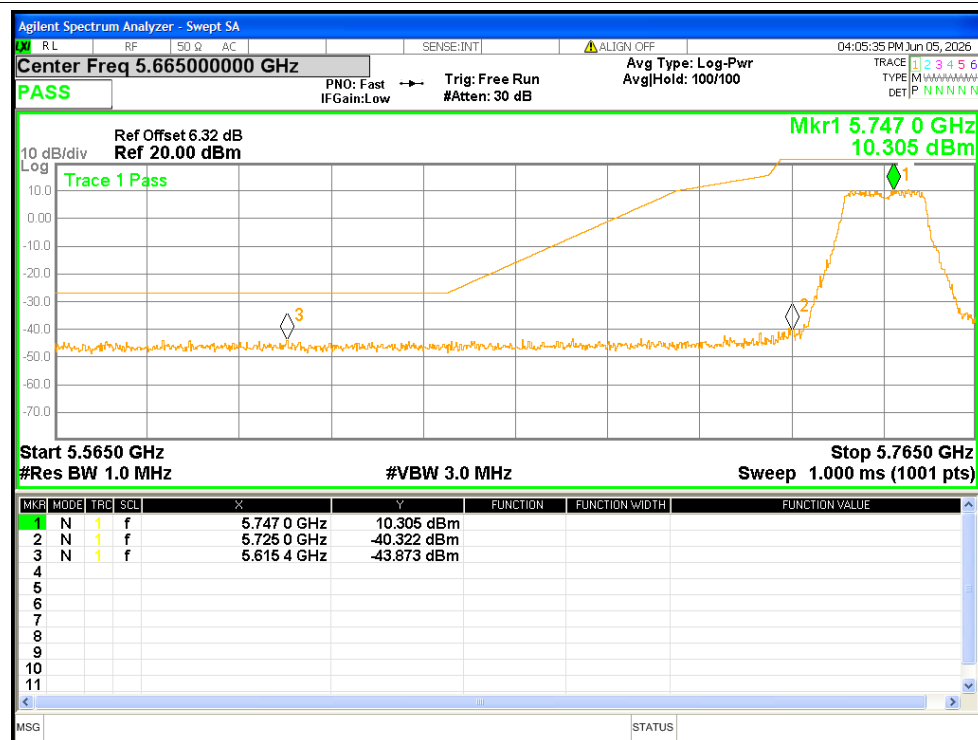
Band Edge NVNT n40 5755MHz Low



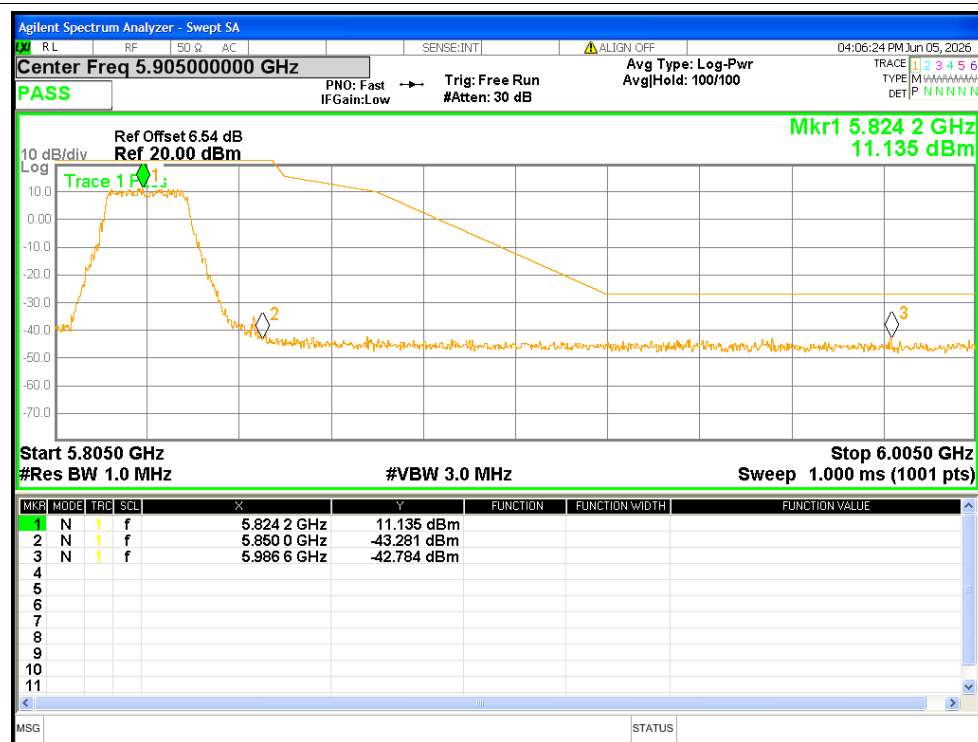
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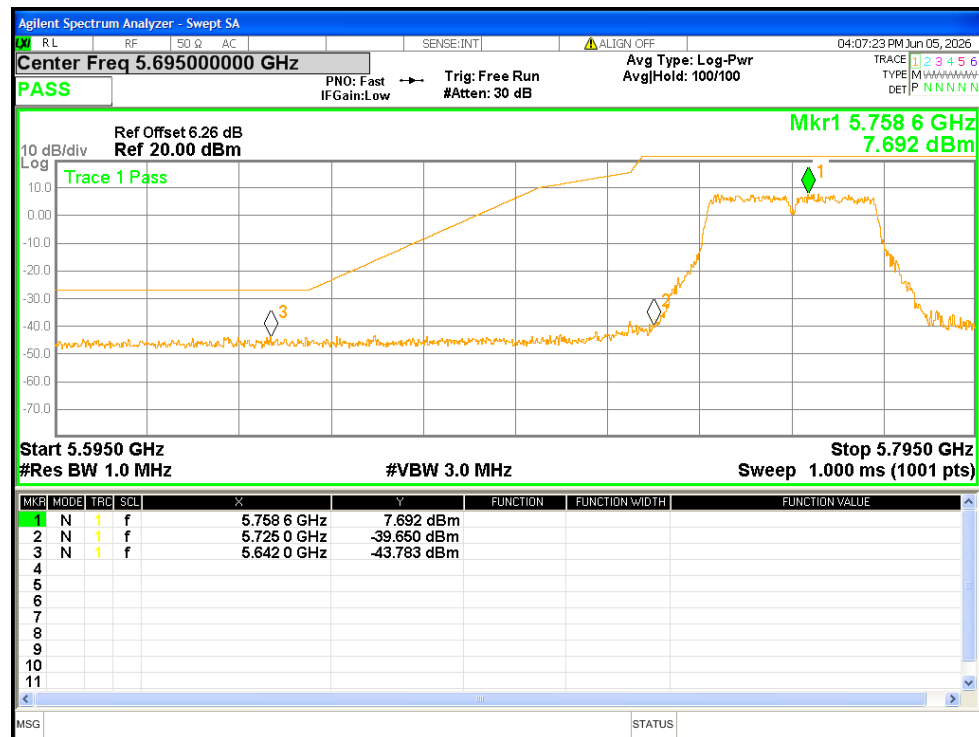
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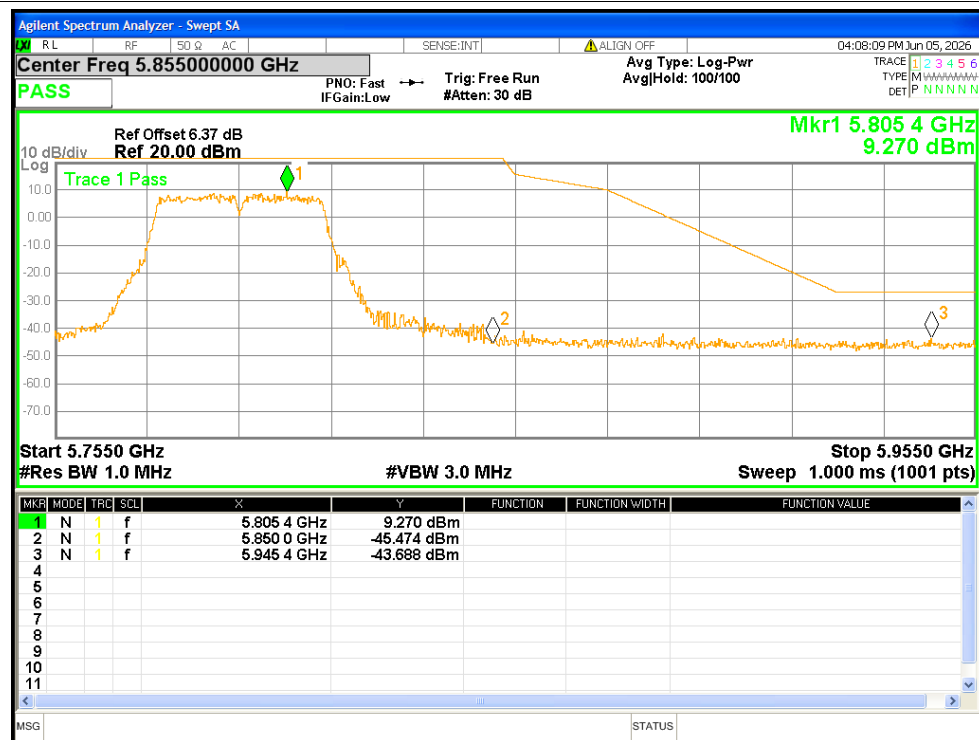
Band Edge NVNT ac20 5825MHz High



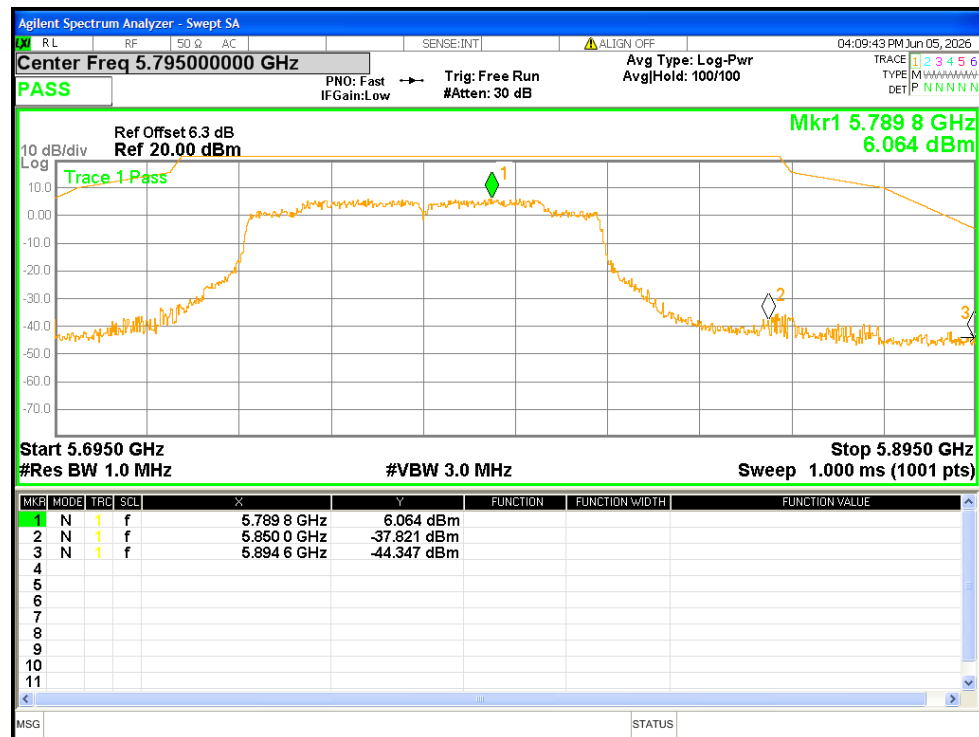
Band Edge NVNT ac40 5755MHz Low



Band Edge NVNT ac40 5795MHz High



Band Edge NVNT ac80 5775MHz High



Band Edge NVNT ac80 5775MHz Low

