

FCC Appendix RF Test Data for 5G WIFI

FCC ID : 2A525-AFF400

Company : Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD

EUT : Automatic Cat Feeder and Water Dispenser with 4 Bowls

Model Number : AFF400

Report No. : CTA26081003602

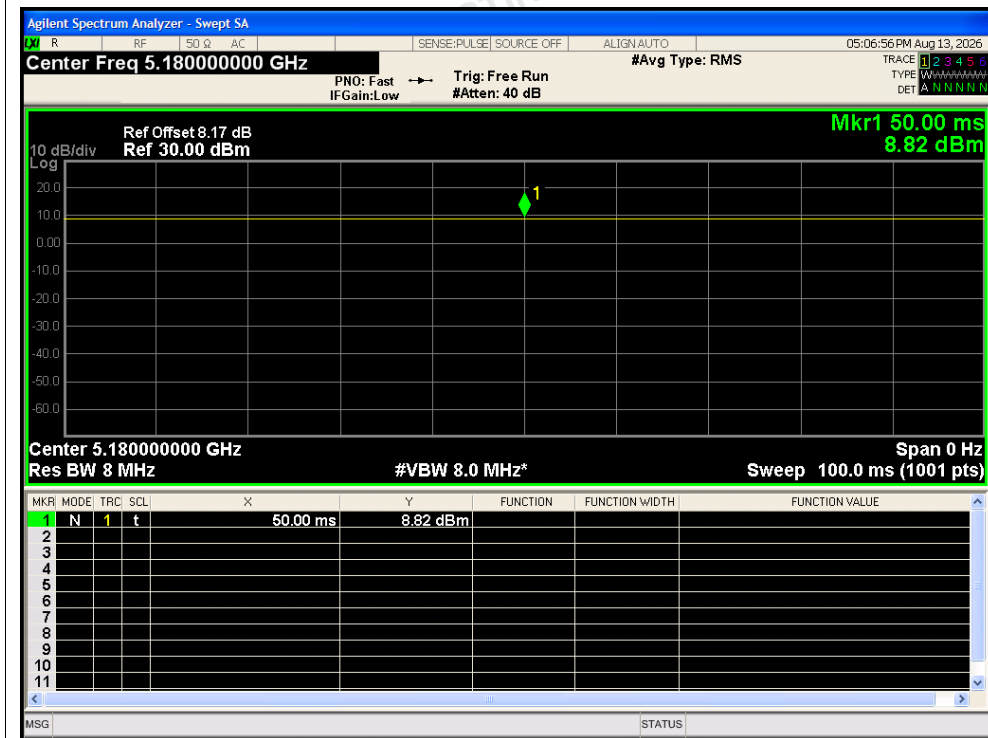
Reviewed By : Eric Wang

Duty Cycle

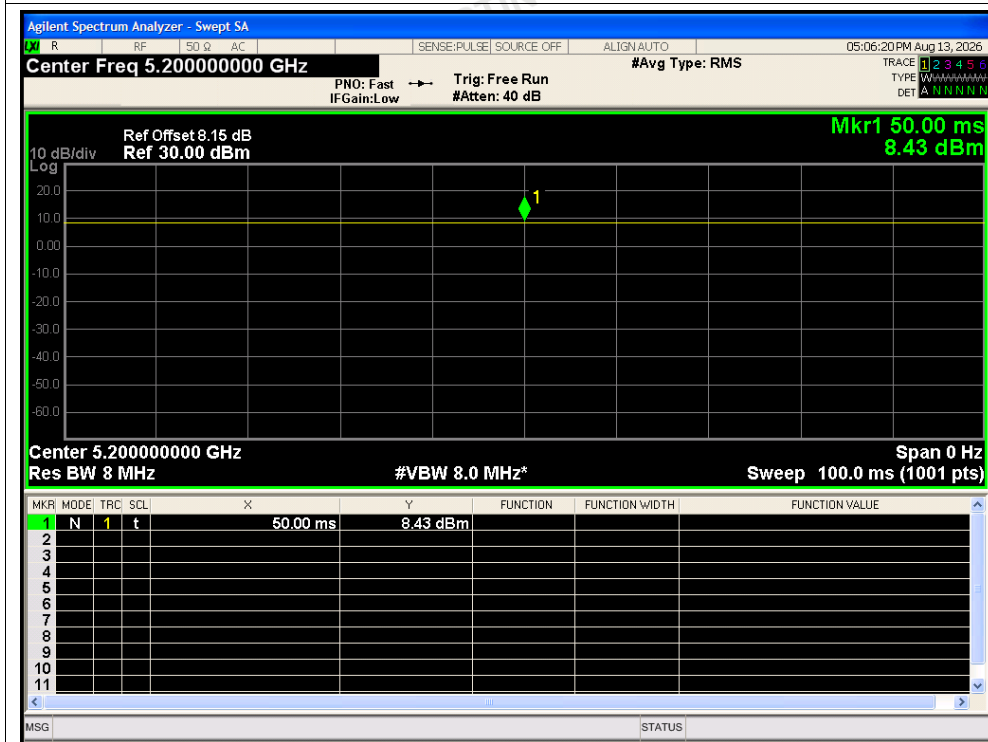
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	100	0
NVNT	a	5200	100	0
NVNT	a	5240	100	0
NVNT	n20	5180	100	0
NVNT	n20	5200	100	0
NVNT	n20	5240	100	0
NVNT	n40	5190	100	0
NVNT	n40	5230	100	0
NVNT	a	5260	100	0
NVNT	a	5280	100	0
NVNT	a	5320	100	0
NVNT	n20	5260	100	0
NVNT	n20	5280	100	0
NVNT	n20	5320	100	0
NVNT	n40	5270	100	0
NVNT	n40	5310	100	0
NVNT	a	5500	100	0
NVNT	a	5600	100	0
NVNT	a	5700	100	0
NVNT	n20	5500	100	0
NVNT	n20	5600	100	0
NVNT	n20	5700	100	0
NVNT	n40	5510	100	0
NVNT	n40	5590	100	0
NVNT	n40	5670	100	0
NVNT	a	5745	100	0
NVNT	a	5785	100	0
NVNT	a	5825	100	0
NVNT	n20	5745	100	0
NVNT	n20	5785	100	0
NVNT	n20	5825	100	0
NVNT	n40	5755	100	0
NVNT	n40	5795	100	0

Test Graphs

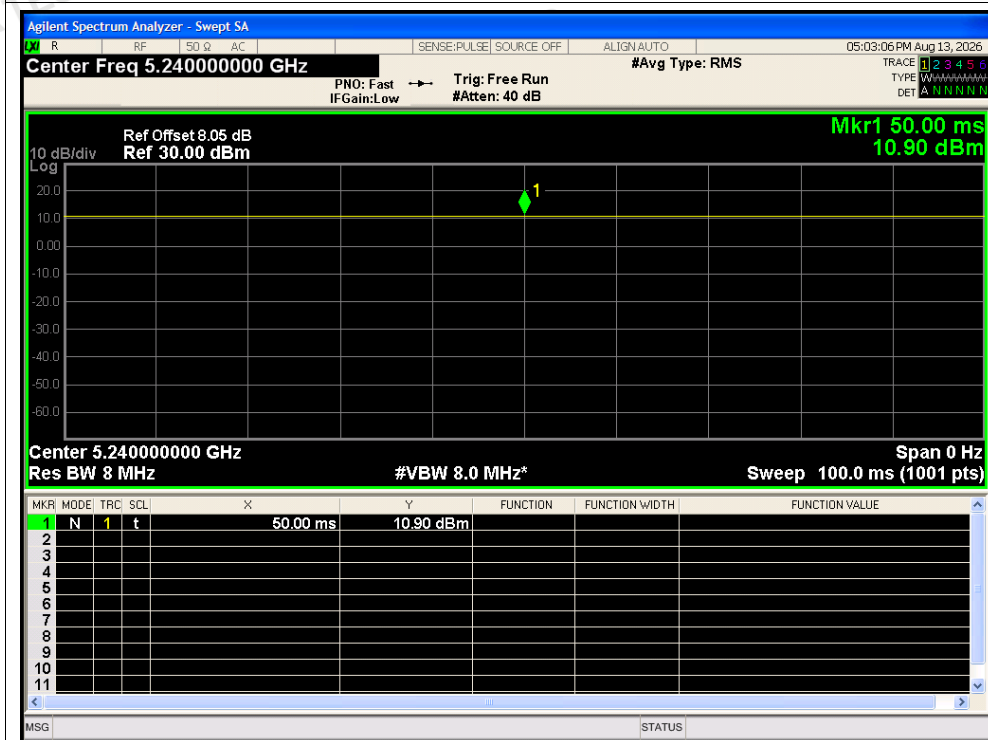
Duty Cycle NVNT a 5180MHz



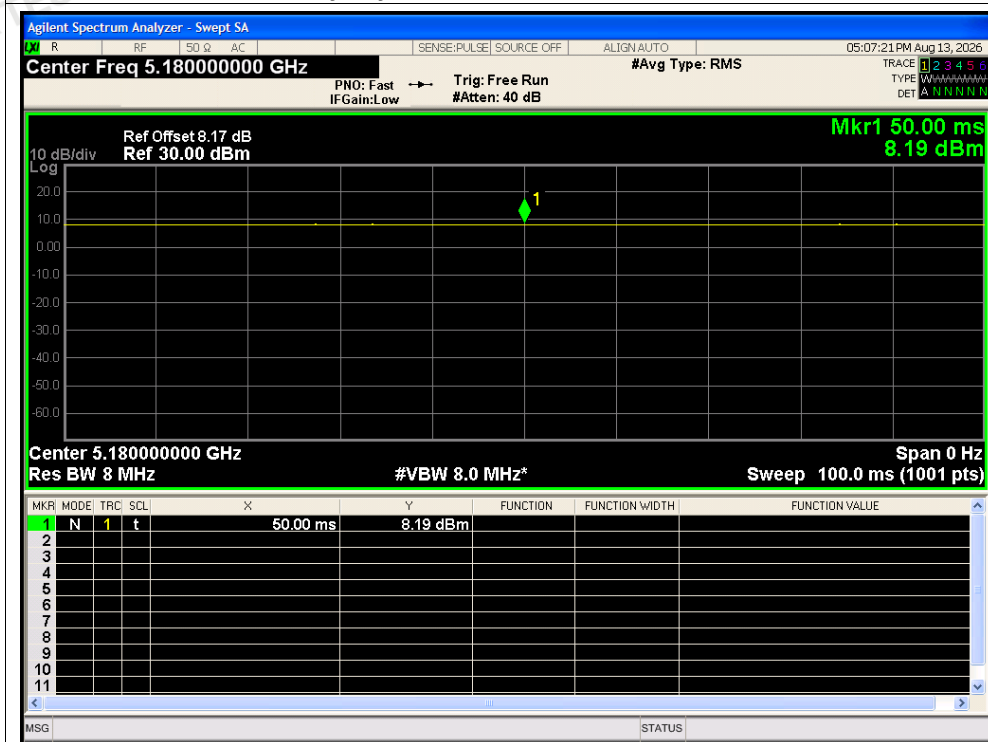
Duty Cycle NVNT a 5200MHz



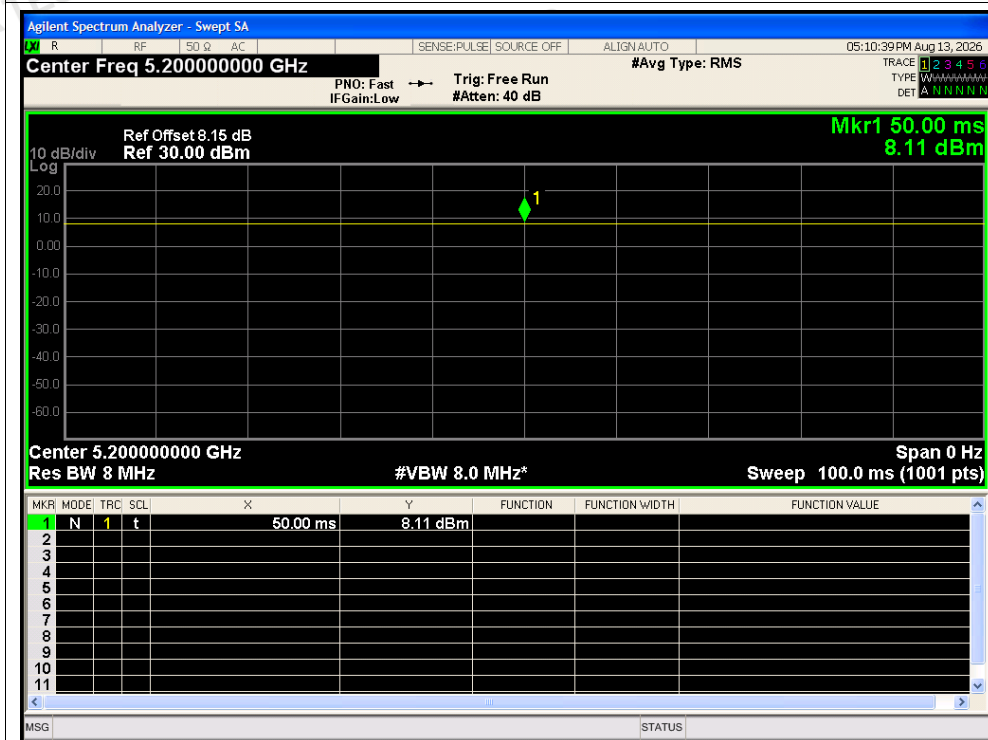
Duty Cycle NVNT a 5240MHz



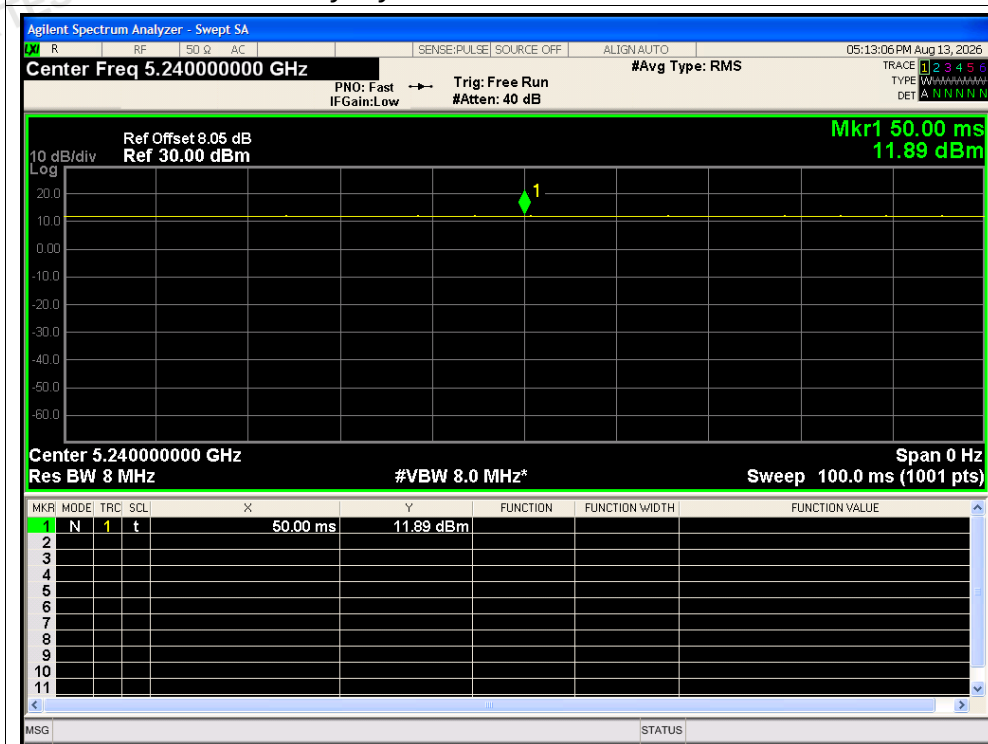
Duty Cycle NVNT n20 5180MHz



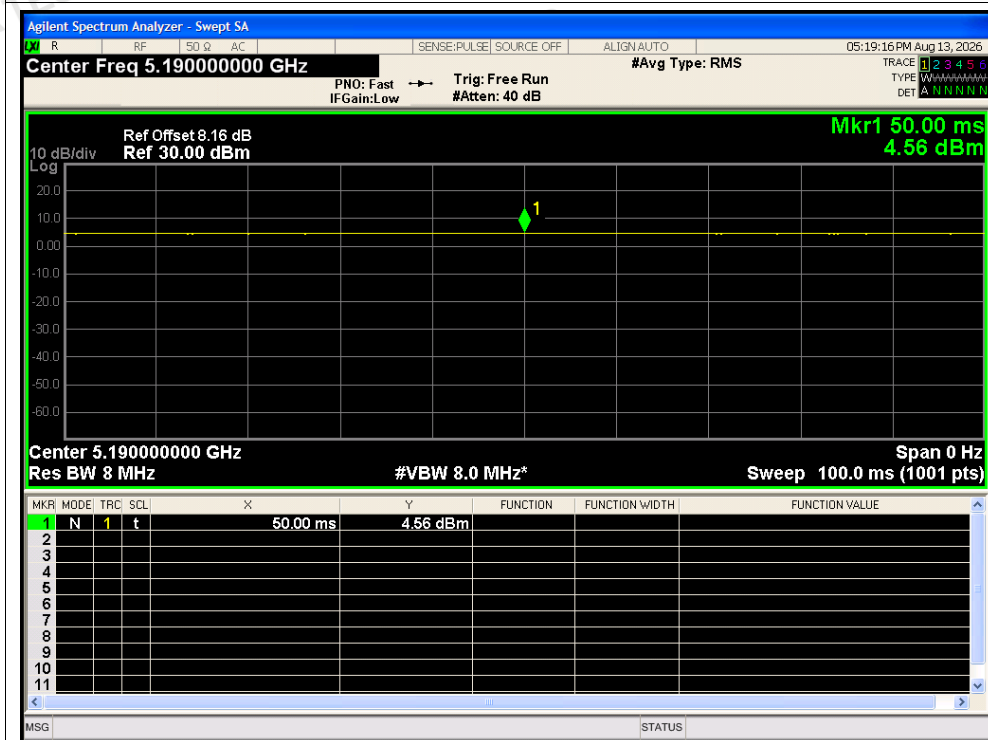
Duty Cycle NVNT n20 5200MHz



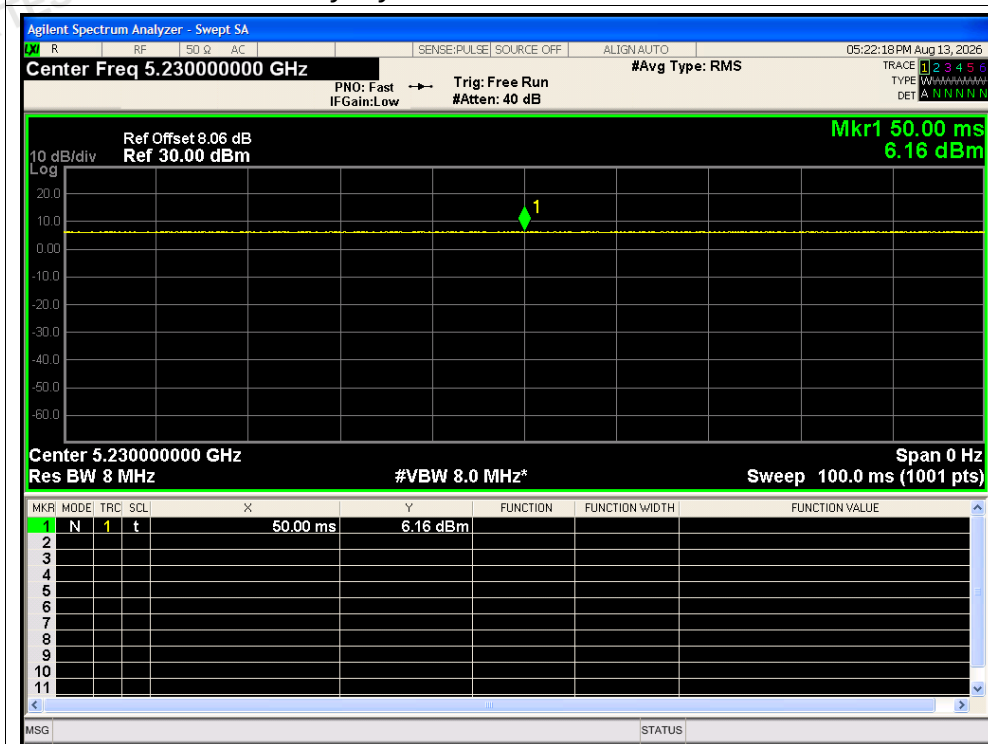
Duty Cycle NVNT n20 5240MHz



Duty Cycle NVNT n40 5190MHz

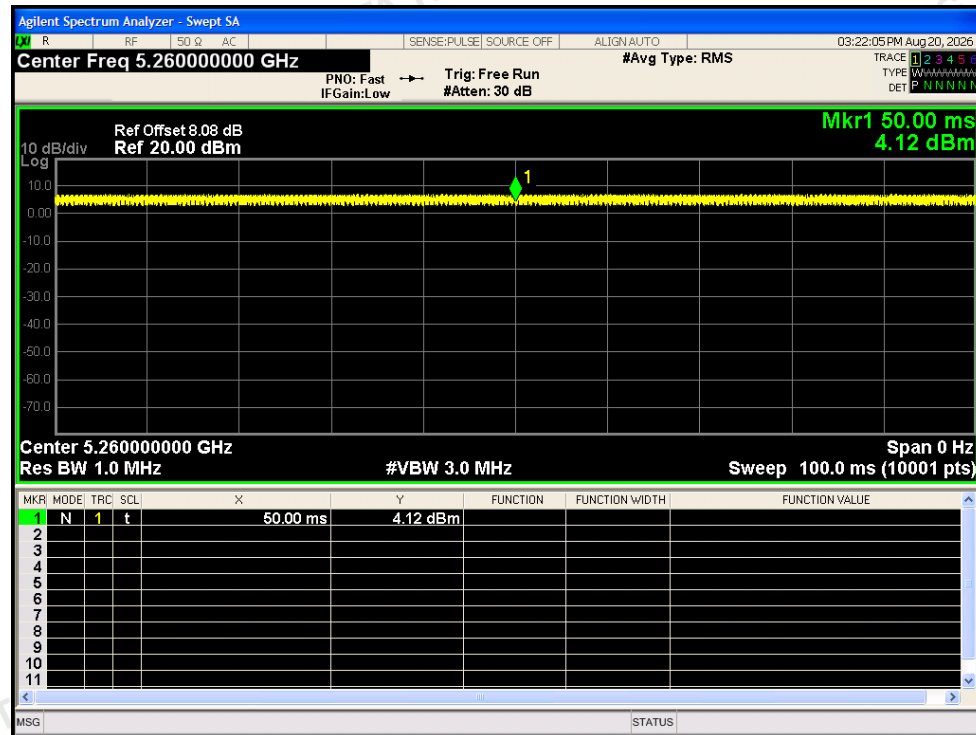


Duty Cycle NVNT n40 5230MHz

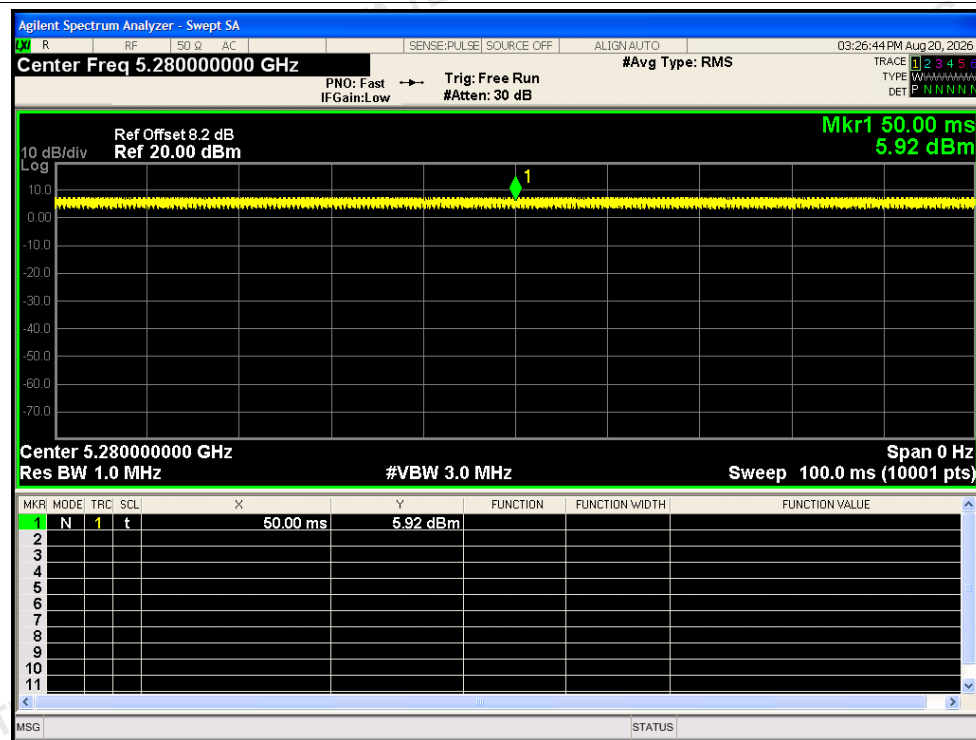


Test Graphs

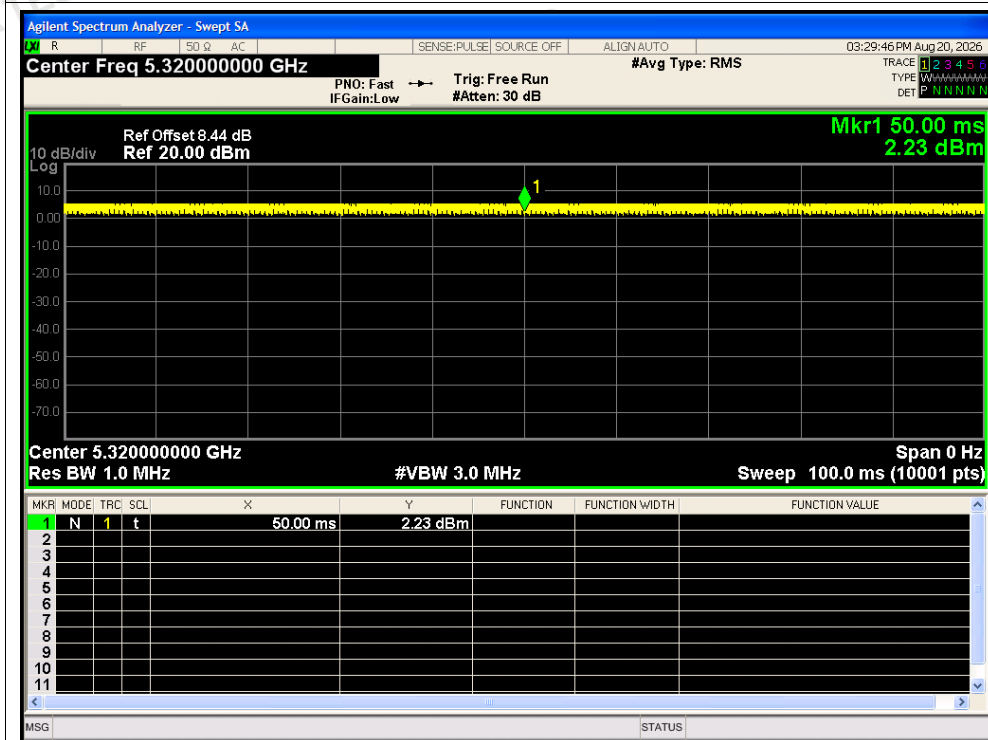
Duty Cycle NVNT a 5260MHz



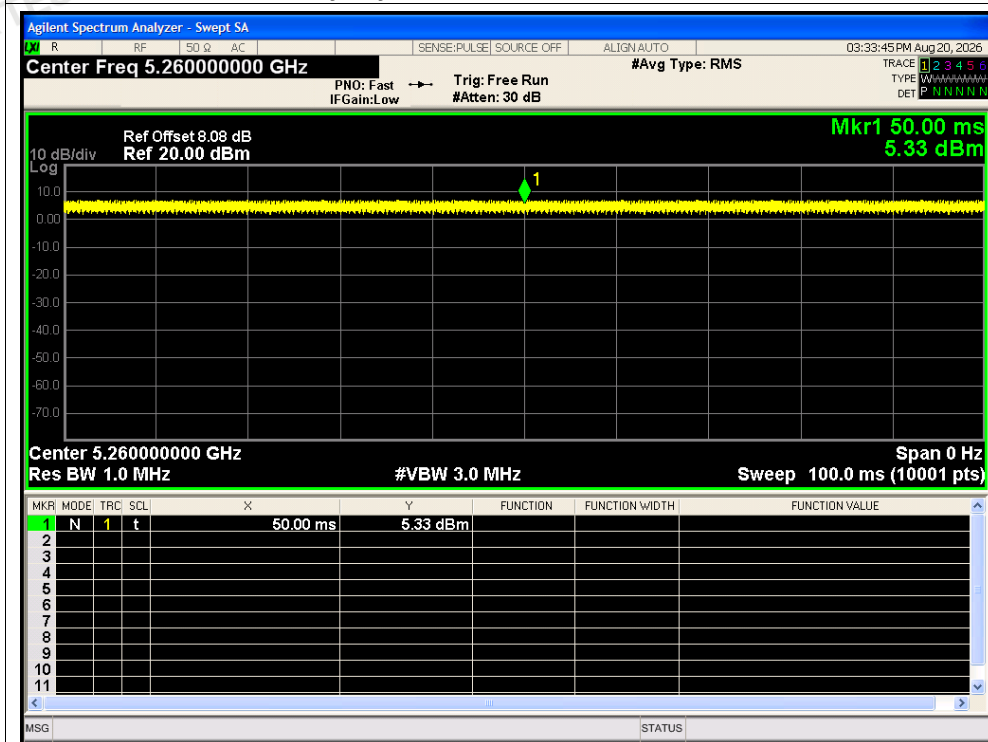
Duty Cycle NVNT a 5280MHz



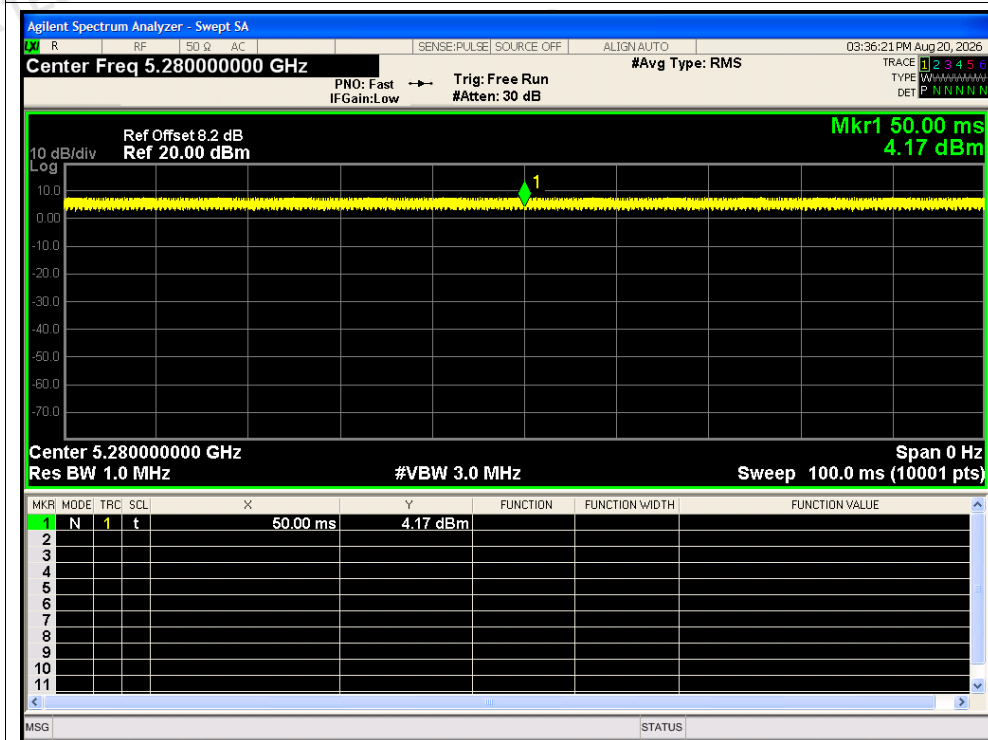
Duty Cycle NVNT a 5320MHz



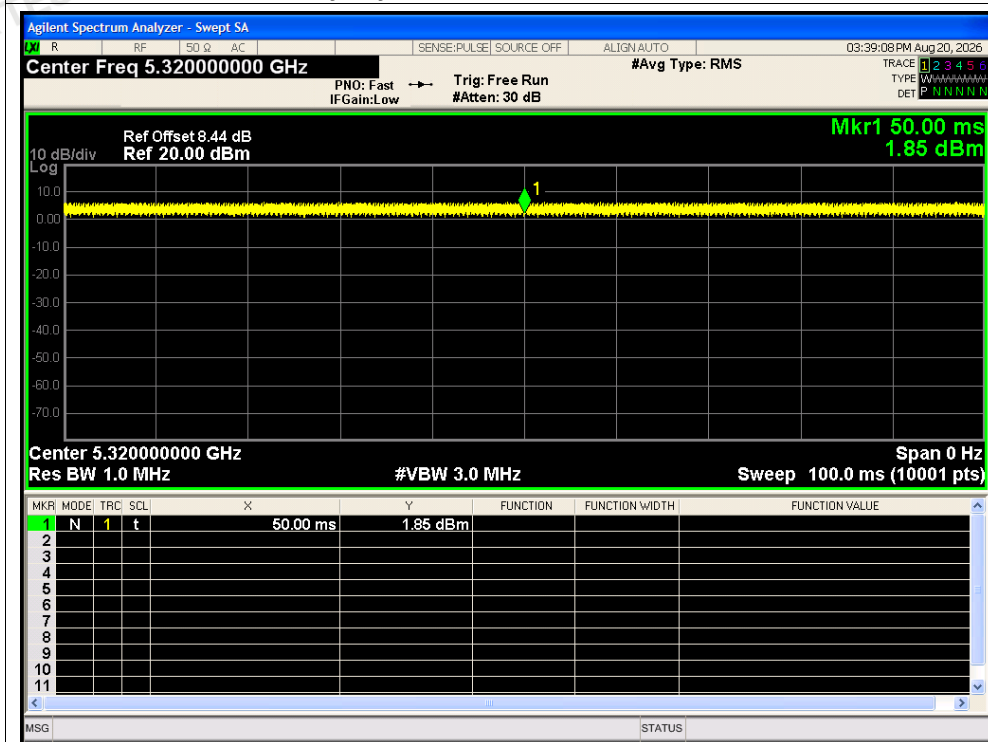
Duty Cycle NVNT n20 5260MHz



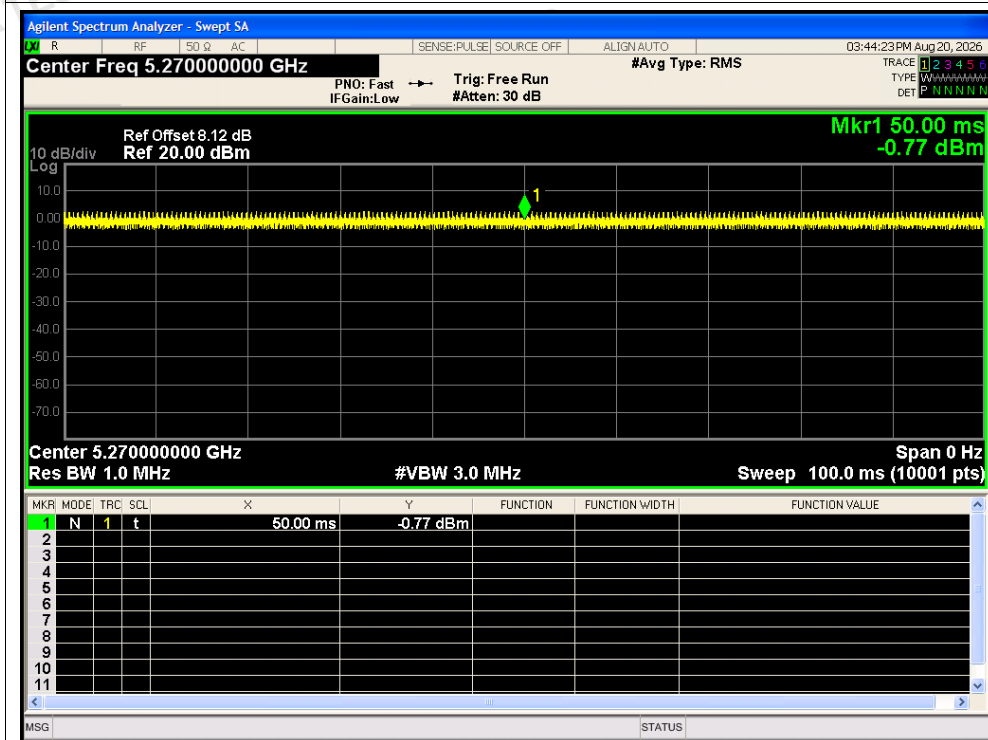
Duty Cycle NVNT n20 5280MHz



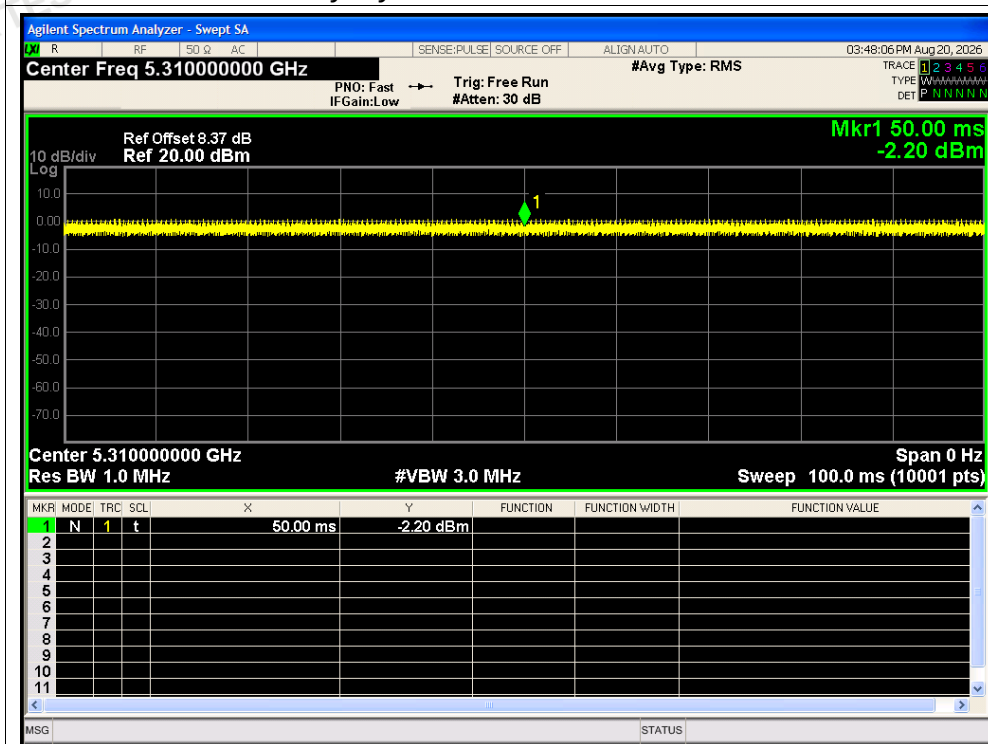
Duty Cycle NVNT n20 5320MHz



Duty Cycle NVNT n40 5270MHz

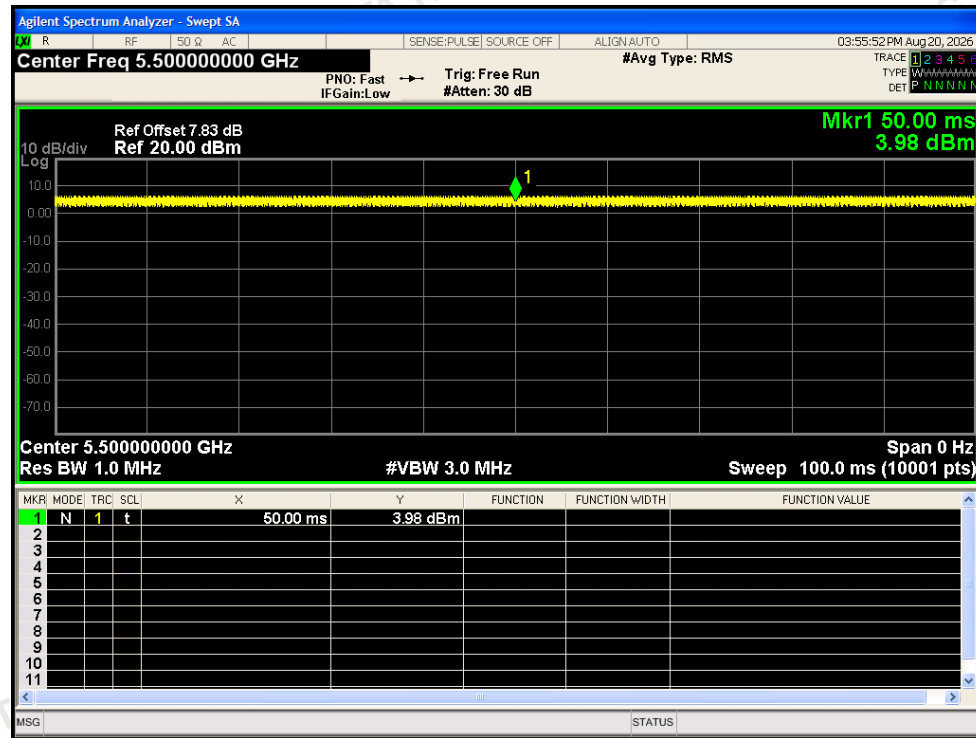


Duty Cycle NVNT n40 5310MHz

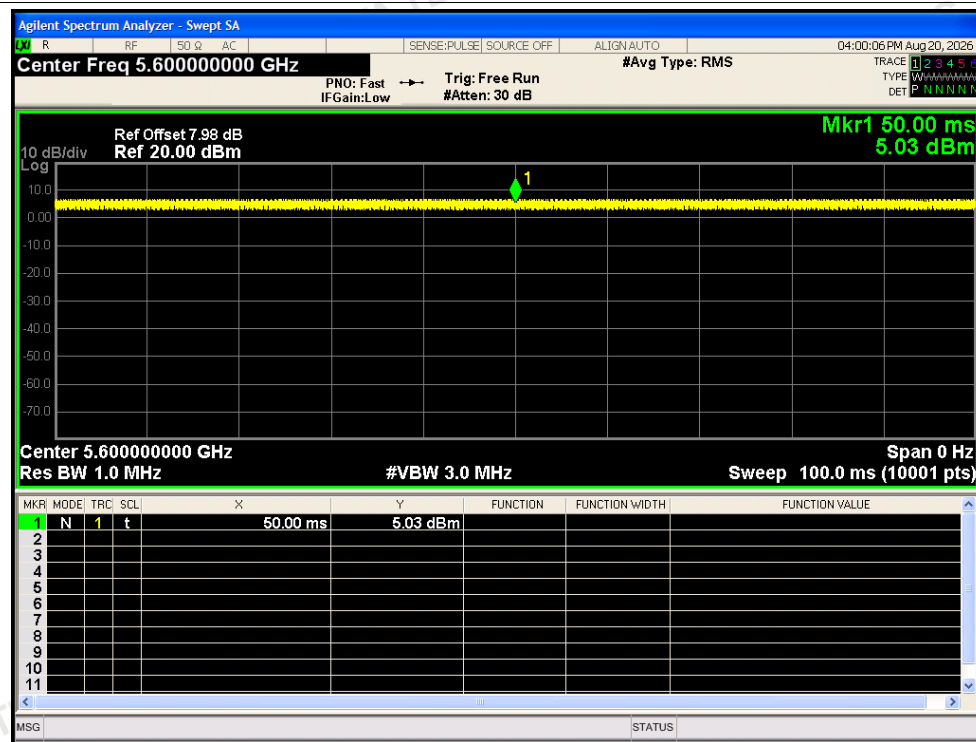


Test Graphs

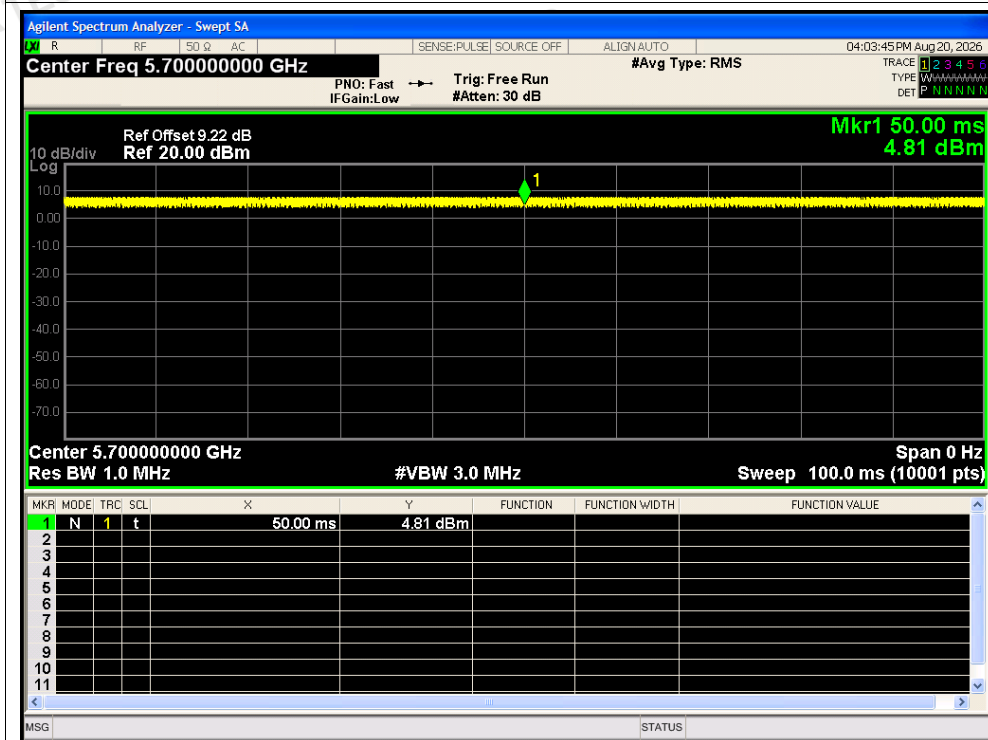
Duty Cycle NVNT a 5500MHz



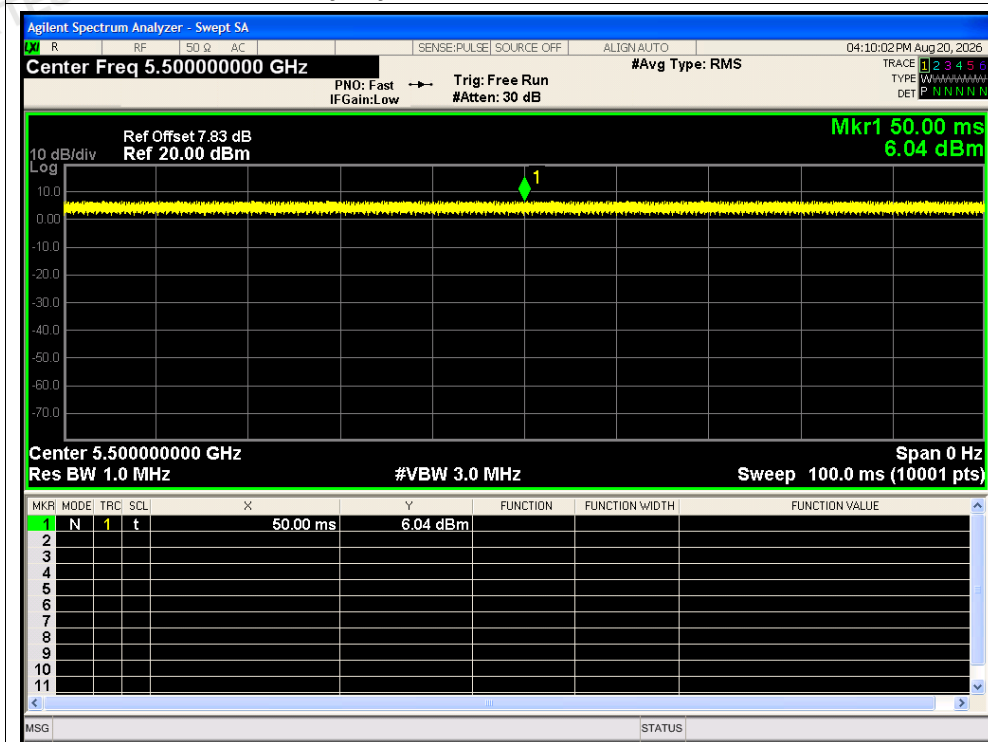
Duty Cycle NVNT a 5600MHz



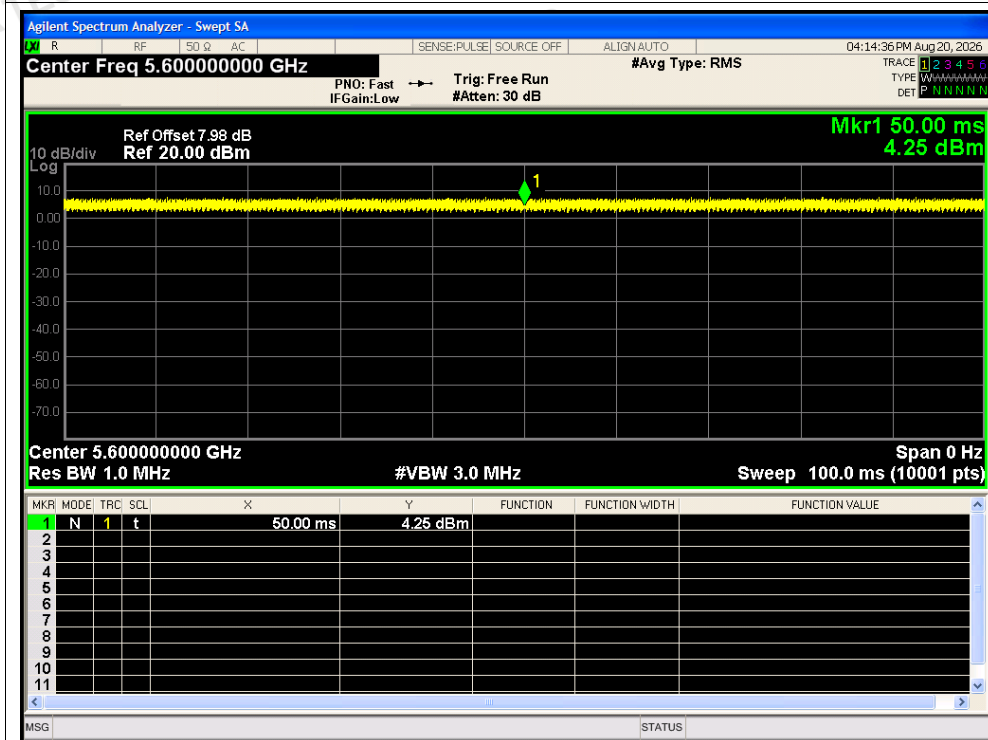
Duty Cycle NVNT a 5700MHz



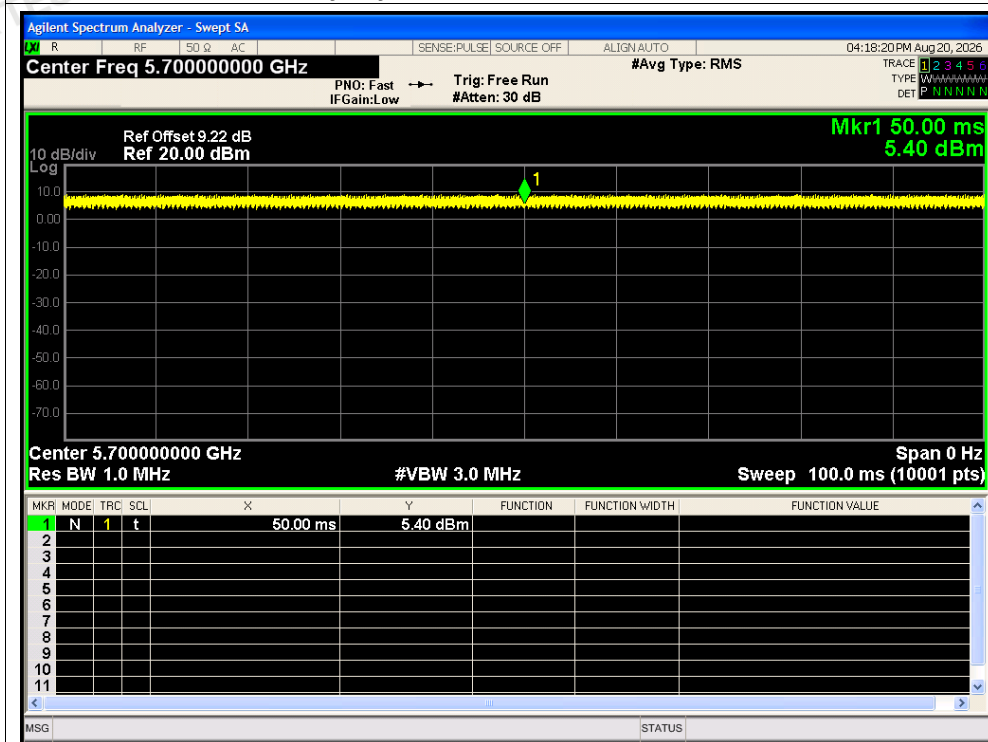
Duty Cycle NVNT n20 5500MHz



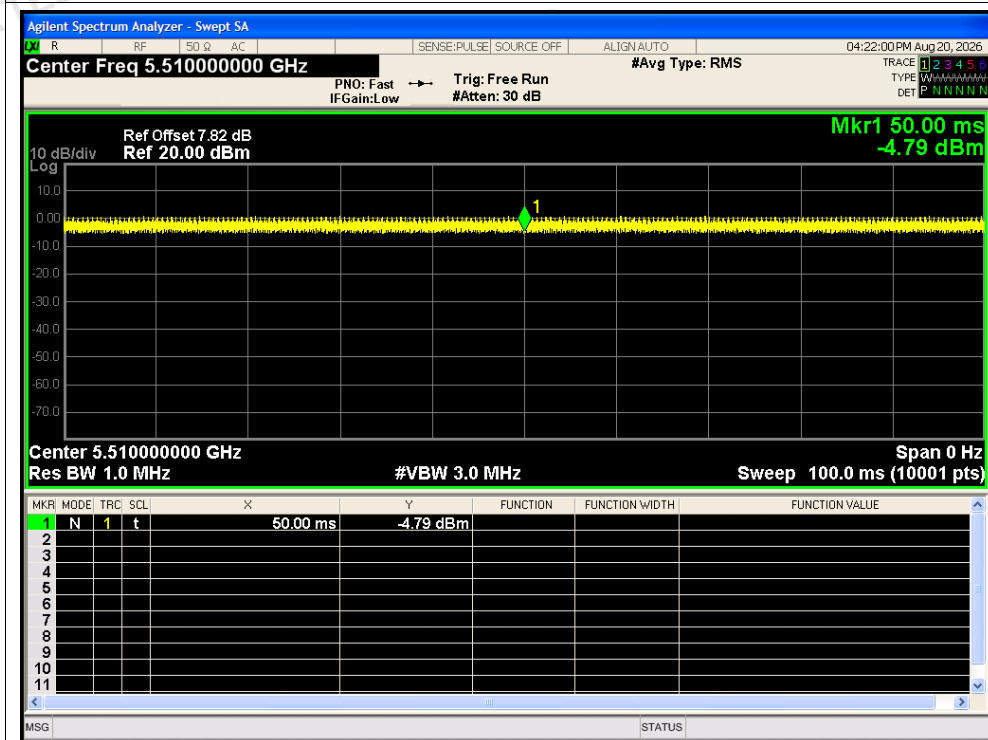
Duty Cycle NVNT n20 5600MHz



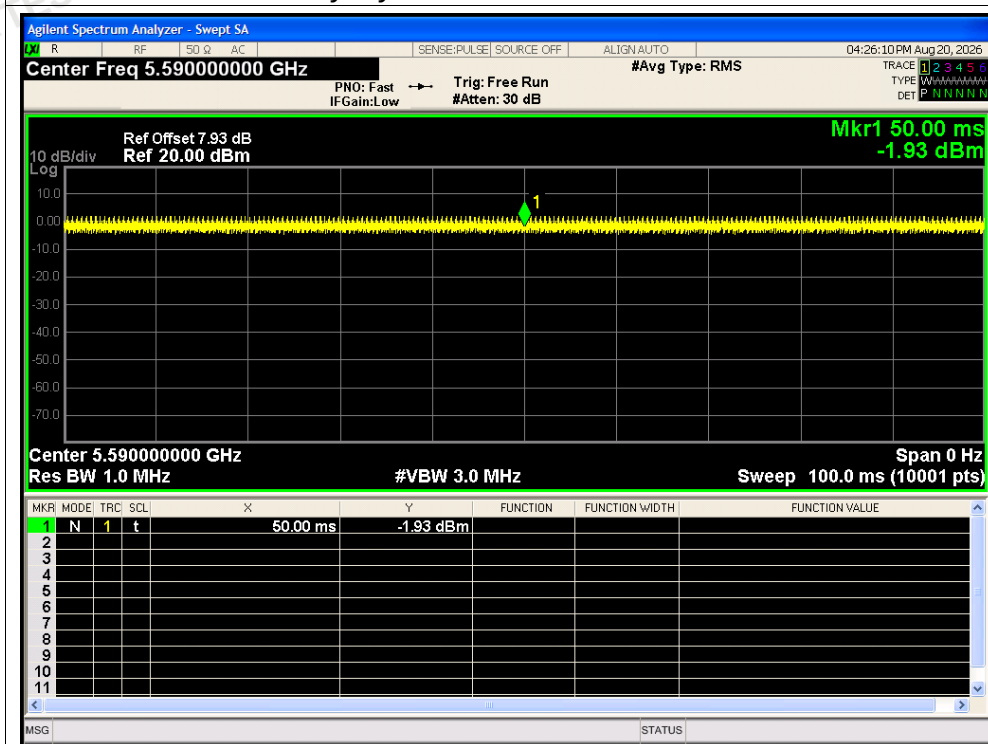
Duty Cycle NVNT n20 5700MHz



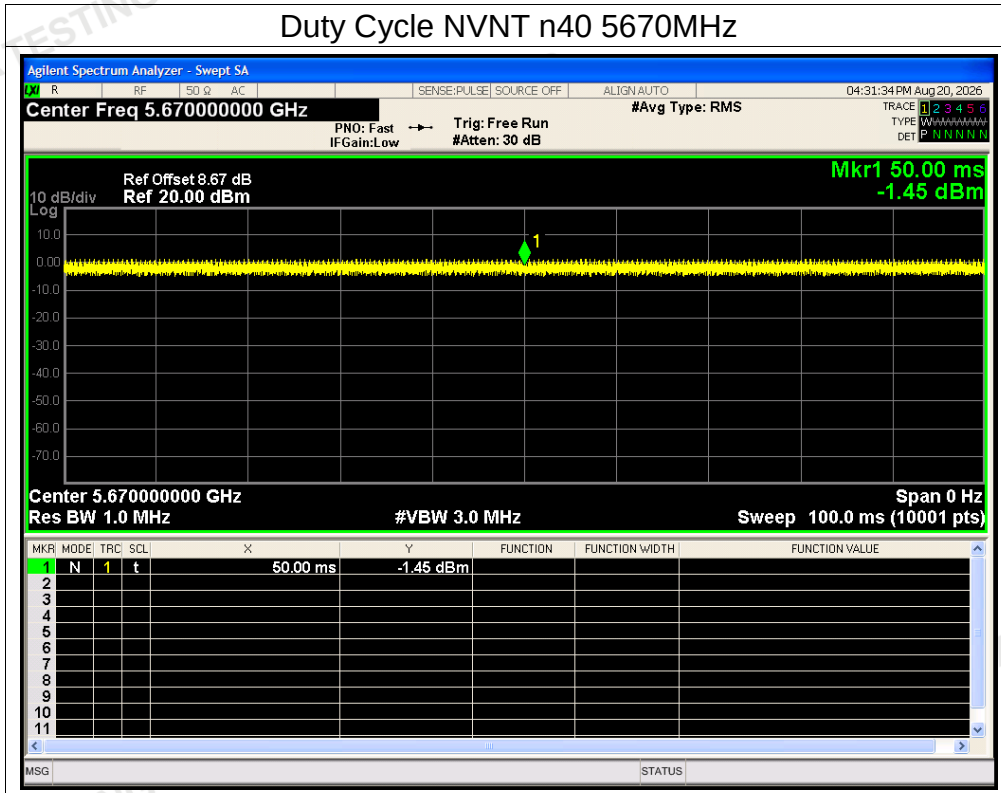
Duty Cycle NVNT n40 5510MHz



Duty Cycle NVNT n40 5590MHz

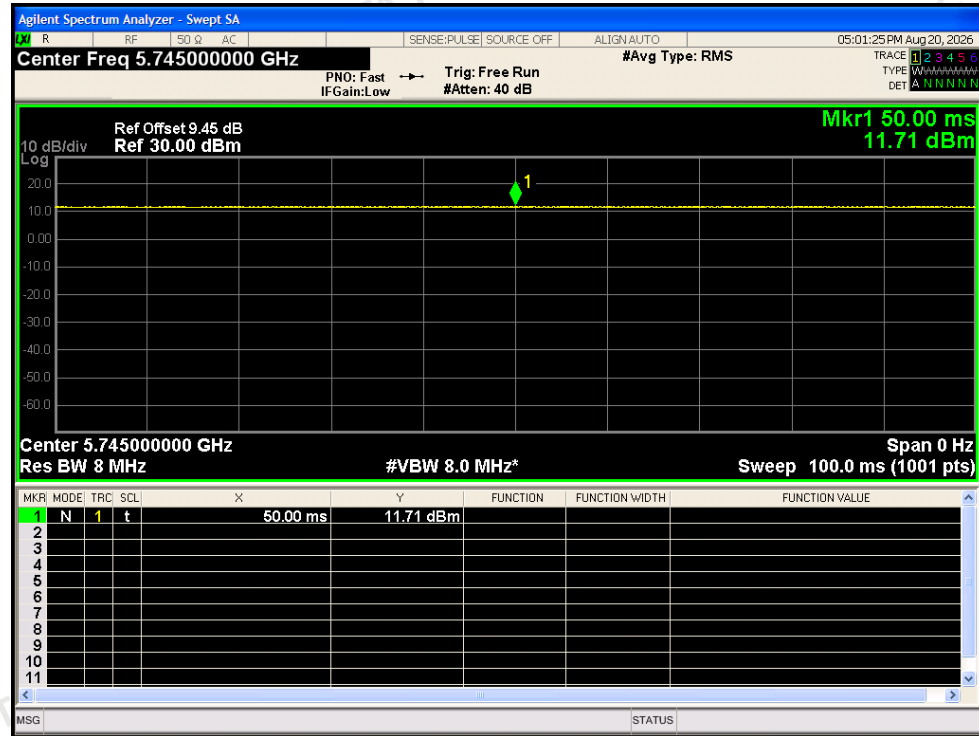


Duty Cycle NVNT n40 5670MHz

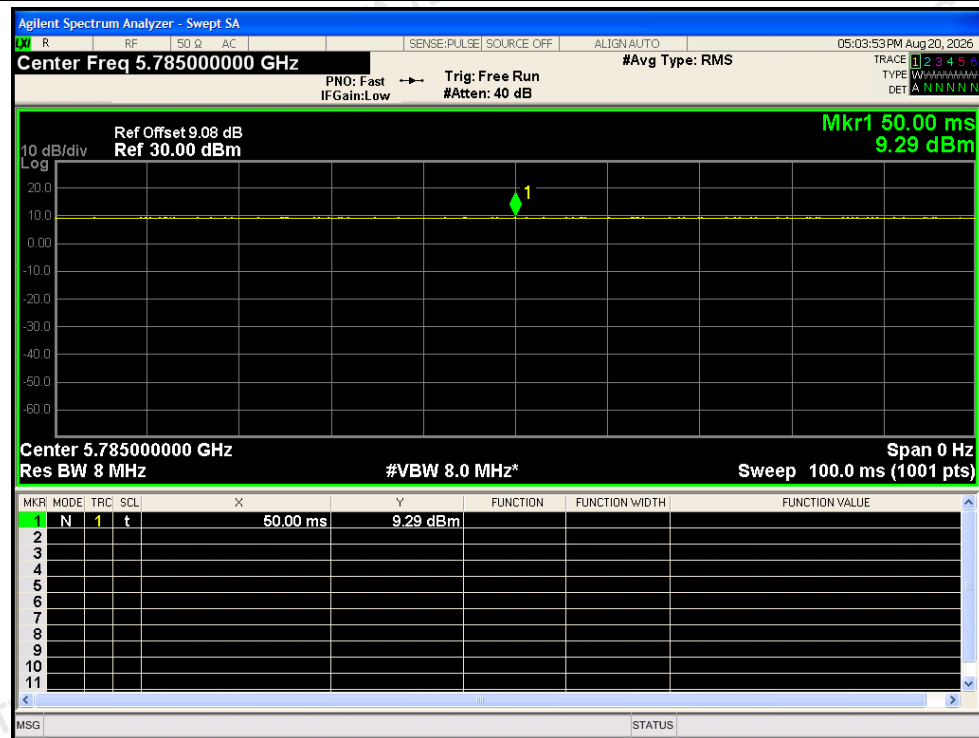


Test Graphs

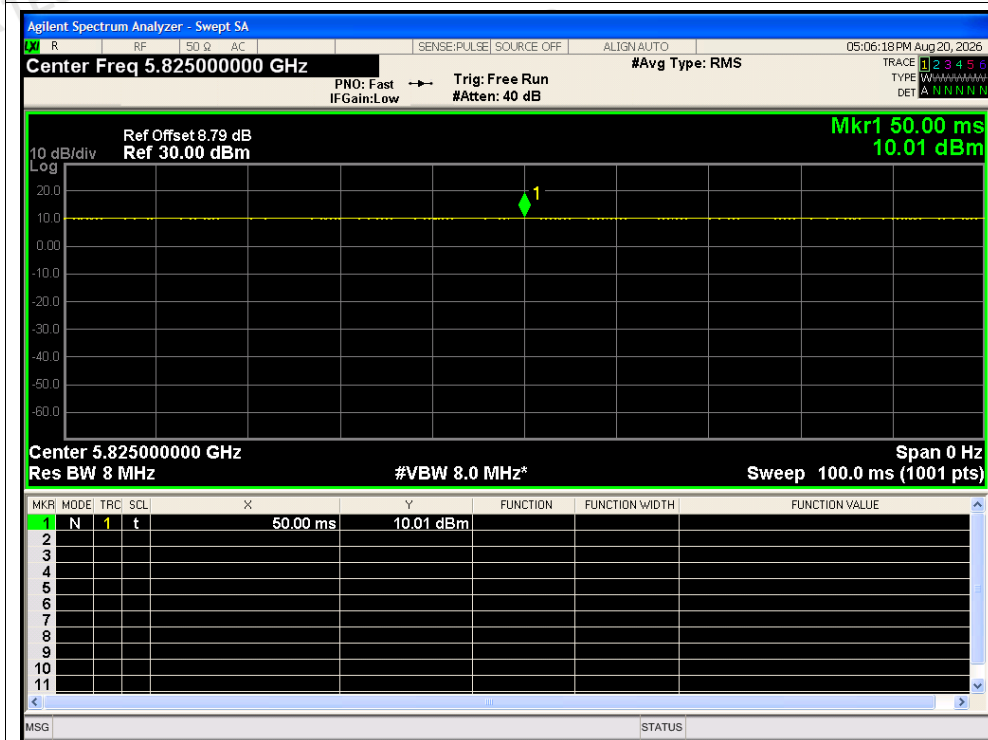
Duty Cycle NVNT a 5745MHz



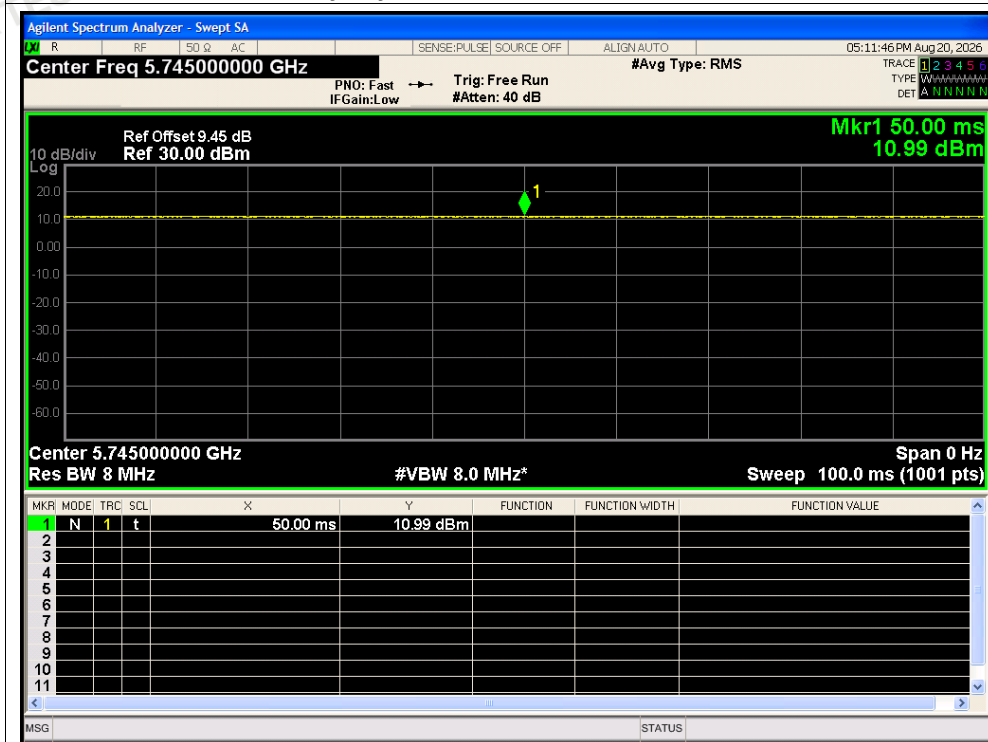
Duty Cycle NVNT a 5785MHz



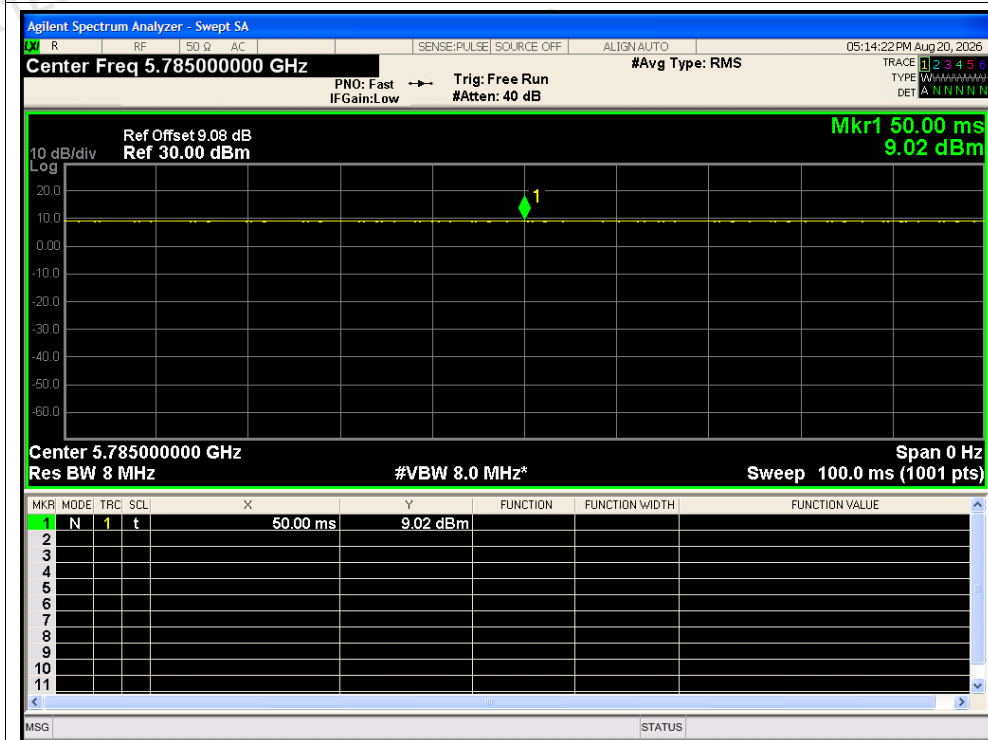
Duty Cycle NVNT a 5825MHz



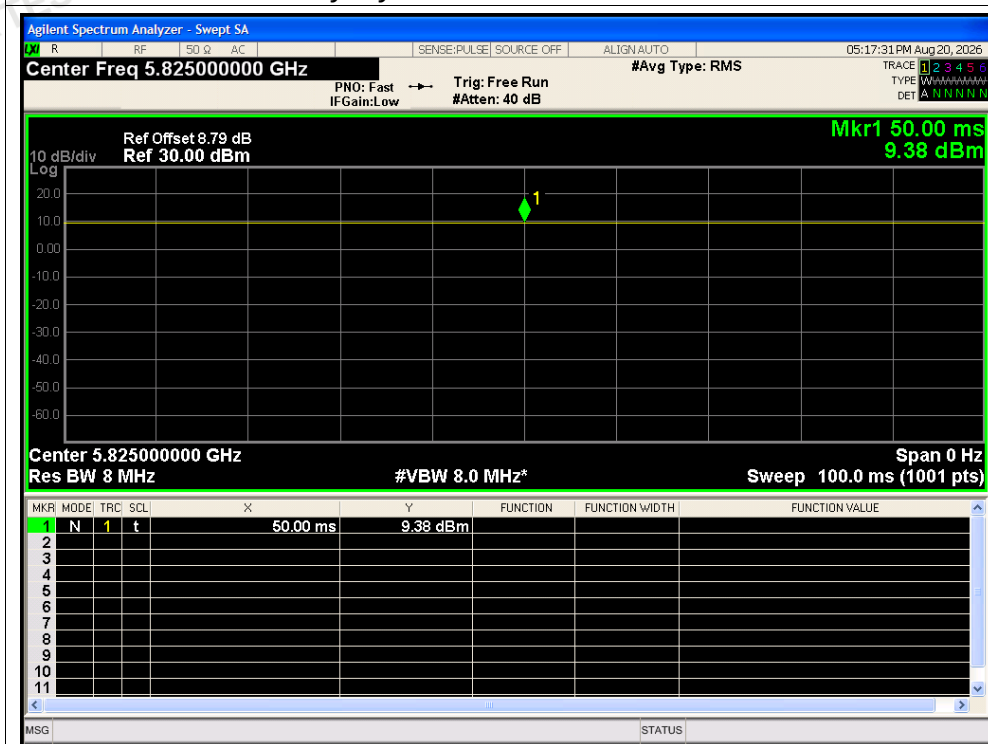
Duty Cycle NVNT n20 5745MHz



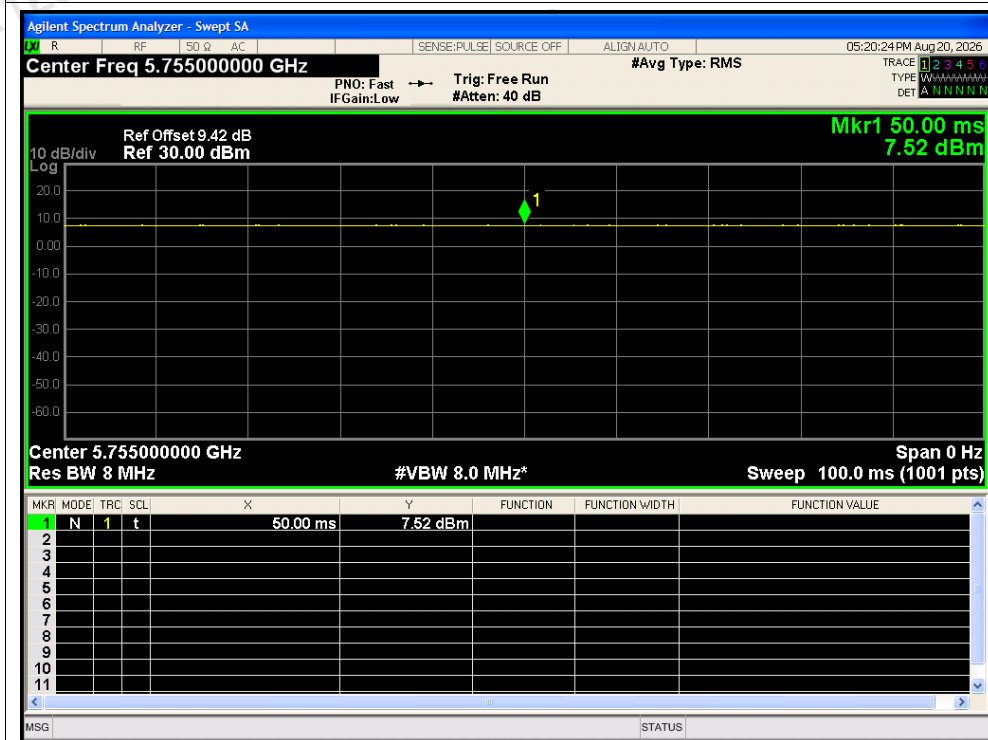
Duty Cycle NVNT n20 5785MHz



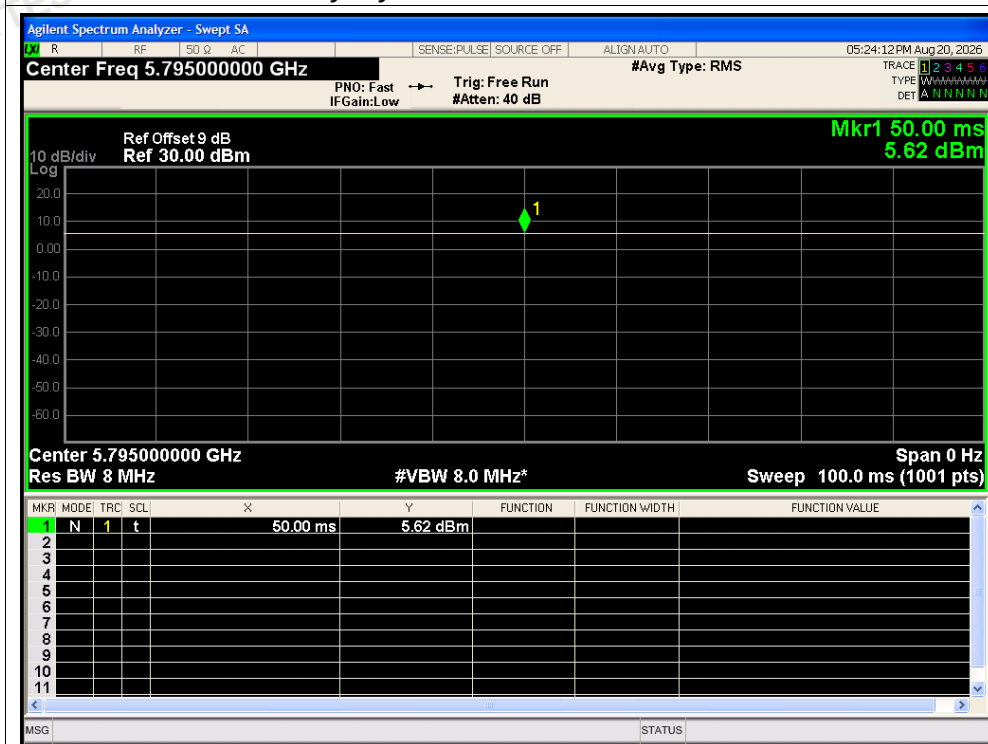
Duty Cycle NVNT n20 5825MHz



Duty Cycle NVNT n40 5755MHz



Duty Cycle NVNT n40 5795MHz



Maximum Conducted Output Power

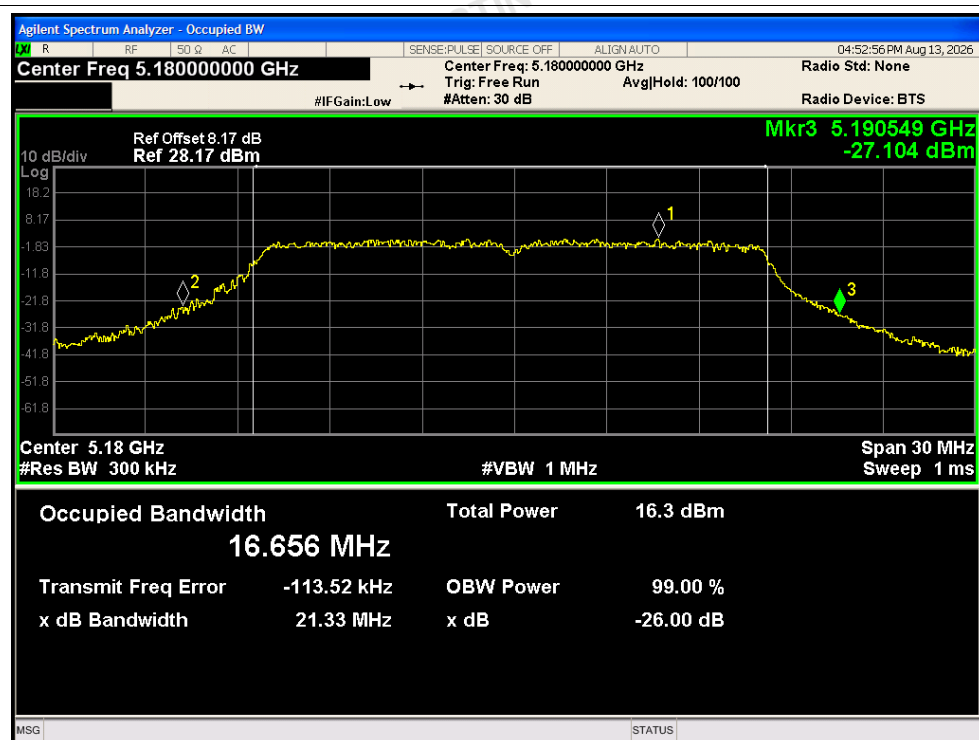
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	11.03	24	Pass
NVNT	a	5200	10.88	24	Pass
NVNT	a	5240	12.72	24	Pass
NVNT	n20	5180	10.73	24	Pass
NVNT	n20	5200	10.64	24	Pass
NVNT	n20	5240	12.86	24	Pass
NVNT	n40	5190	10.12	24	Pass
NVNT	n40	5230	11.71	24	Pass
NVNT	a	5260	12.87	24	Pass
NVNT	a	5280	12.84	24	Pass
NVNT	a	5320	11.13	24	Pass
NVNT	n20	5260	12.01	24	Pass
NVNT	n20	5280	12.78	24	Pass
NVNT	n20	5320	10.88	24	Pass
NVNT	n40	5270	12.80	24	Pass
NVNT	n40	5310	11.02	24	Pass
NVNT	a	5500	11.00	24	Pass
NVNT	a	5600	11.71	24	Pass
NVNT	a	5700	12.33	24	Pass
NVNT	n20	5500	10.43	24	Pass
NVNT	n20	5600	11.55	24	Pass
NVNT	n20	5700	12.81	24	Pass
NVNT	n40	5510	10.14	24	Pass
NVNT	n40	5590	11.63	24	Pass
NVNT	n40	5670	10.99	24	Pass
NVNT	a	5745	14.70	30	Pass
NVNT	a	5785	10.77	30	Pass
NVNT	a	5825	11.45	30	Pass
NVNT	n20	5745	13.41	30	Pass
NVNT	n20	5785	10.48	30	Pass
NVNT	n20	5825	11.17	30	Pass
NVNT	n40	5755	12.51	30	Pass
NVNT	n40	5795	11.06	30	Pass

-26dB Bandwidth

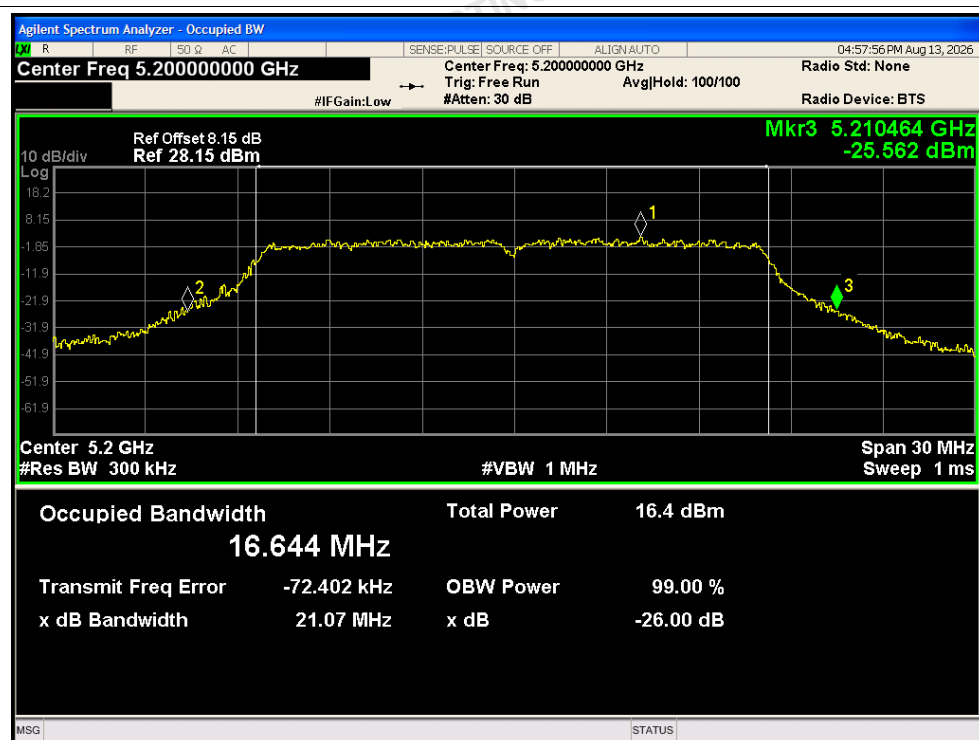
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	21.33	Pass
NVNT	a	5200	21.07	Pass
NVNT	a	5240	20.87	Pass
NVNT	n20	5180	21.63	Pass
NVNT	n20	5200	21.57	Pass
NVNT	n20	5240	21.81	Pass
NVNT	n40	5190	39.13	Pass
NVNT	n40	5230	38.73	Pass
NVNT	a	5260	20.74	Pass
NVNT	a	5280	20.74	Pass
NVNT	a	5320	20.99	Pass
NVNT	n20	5260	21.44	Pass
NVNT	n20	5280	21.53	Pass
NVNT	n20	5320	21.47	Pass
NVNT	n40	5270	38.21	Pass
NVNT	n40	5310	38.28	Pass
NVNT	a	5500	21.11	Pass
NVNT	a	5600	21.12	Pass
NVNT	a	5700	21.09	Pass
NVNT	n20	5500	21.56	Pass
NVNT	n20	5600	21.48	Pass
NVNT	n20	5700	21.95	Pass
NVNT	n40	5510	38.24	Pass
NVNT	n40	5590	38.04	Pass
NVNT	n40	5670	38.38	Pass

Test Graphs

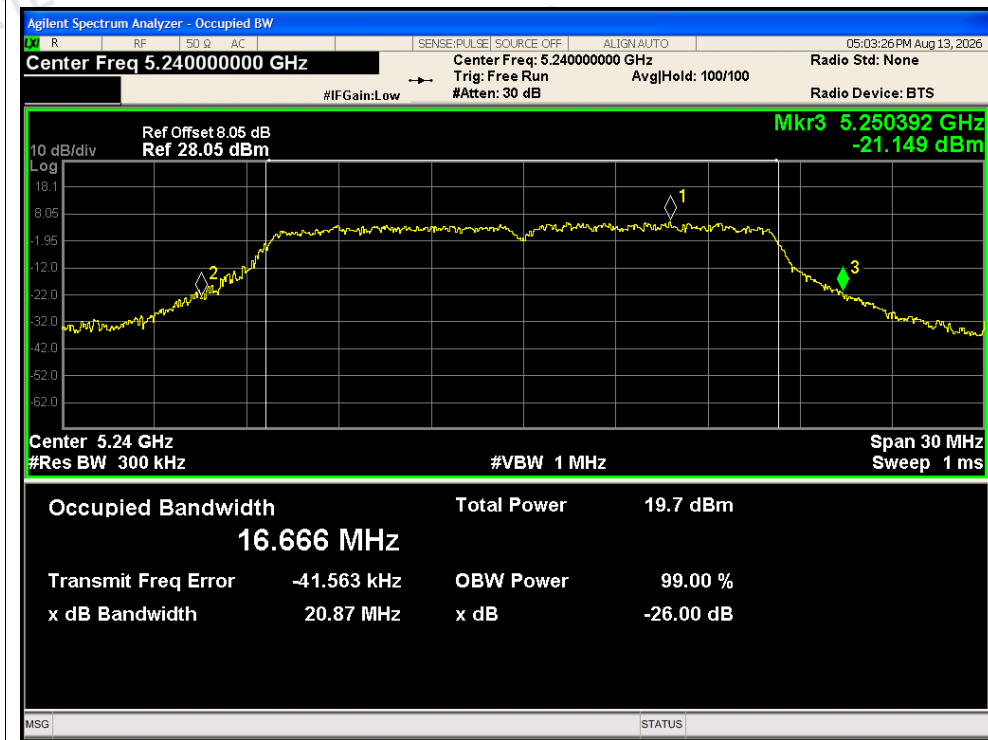
-26dB Bandwidth NVNT a 5180MHz



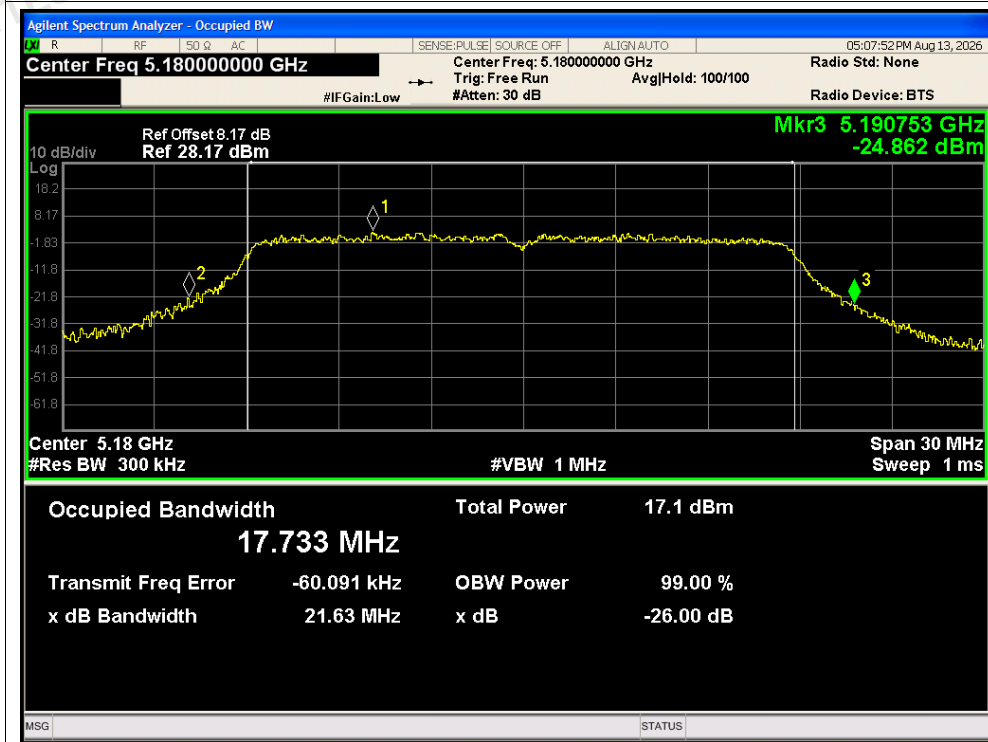
-26dB Bandwidth NVNT a 5200MHz



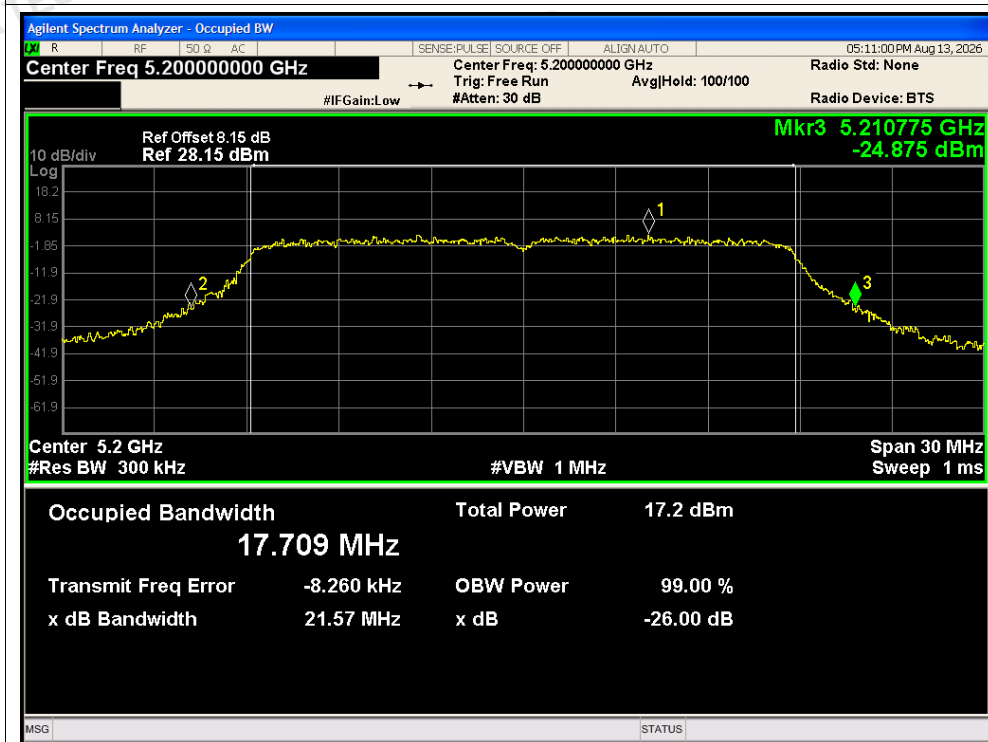
-26dB Bandwidth NVNT a 5240MHz



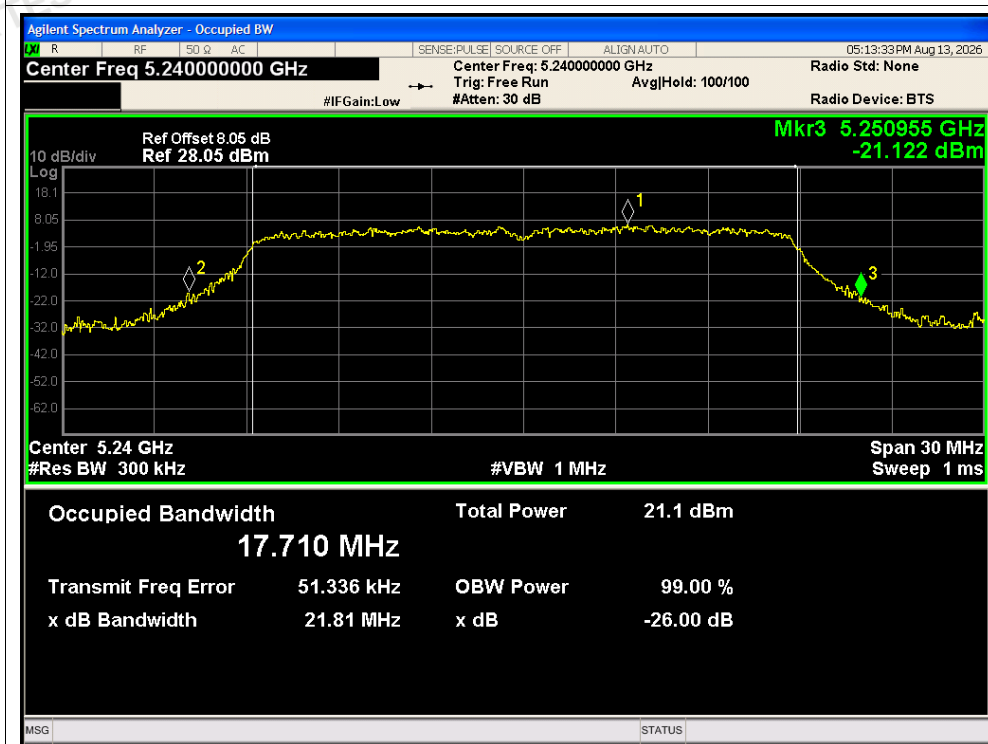
-26dB Bandwidth NVNT n20 5180MHz



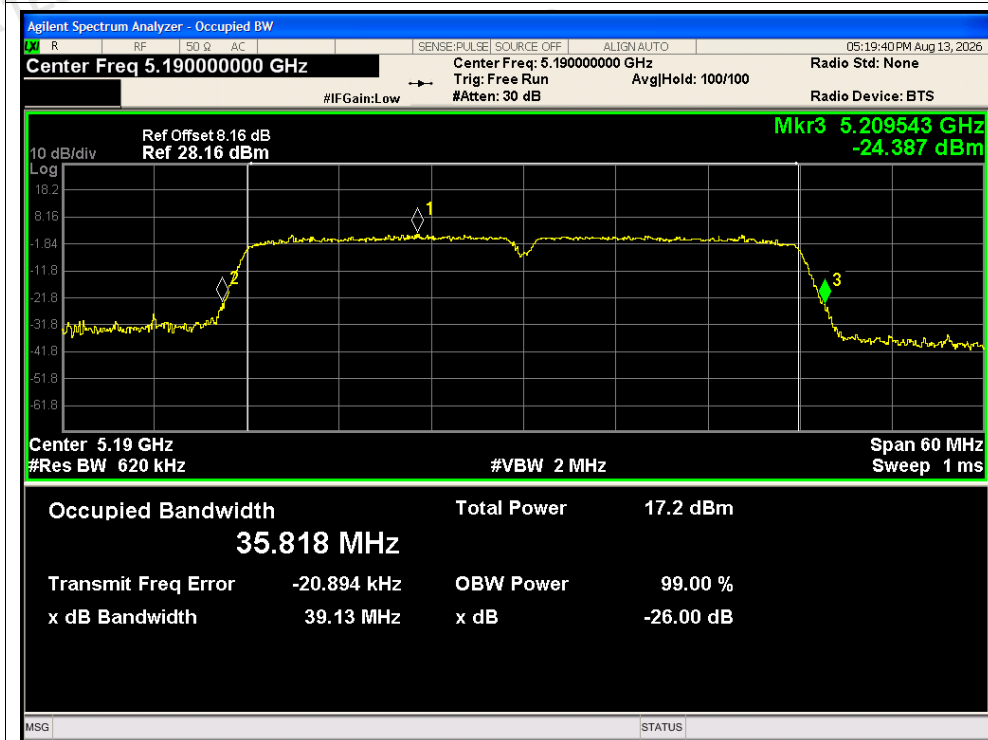
-26dB Bandwidth NVNT n20 5200MHz



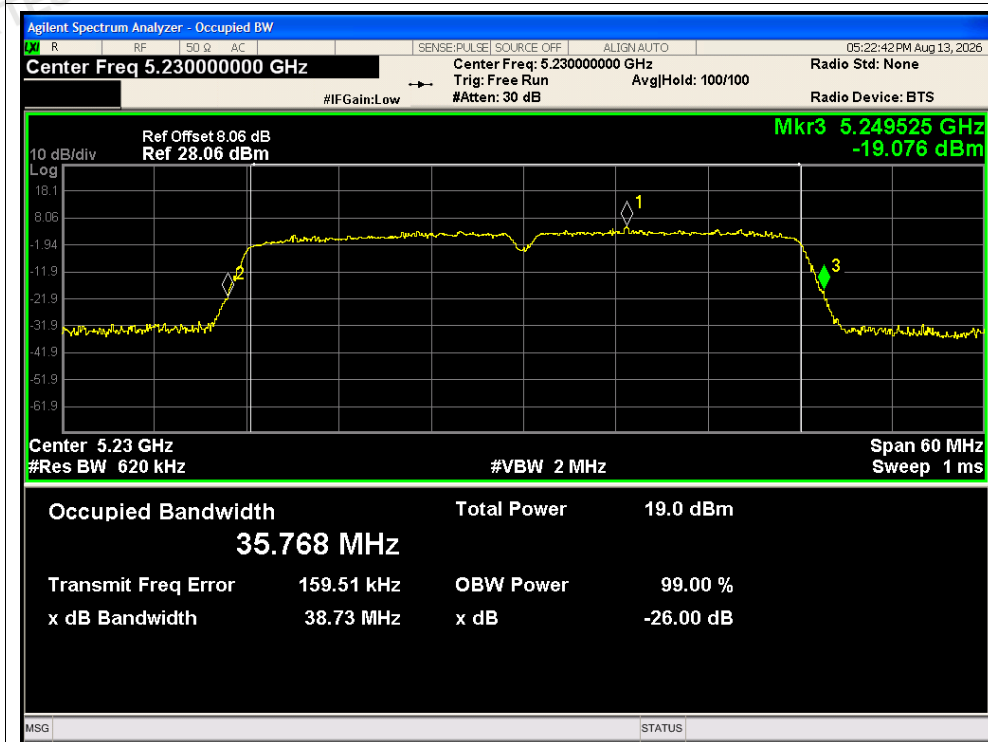
-26dB Bandwidth NVNT n20 5240MHz



-26dB Bandwidth NVNT n40 5190MHz

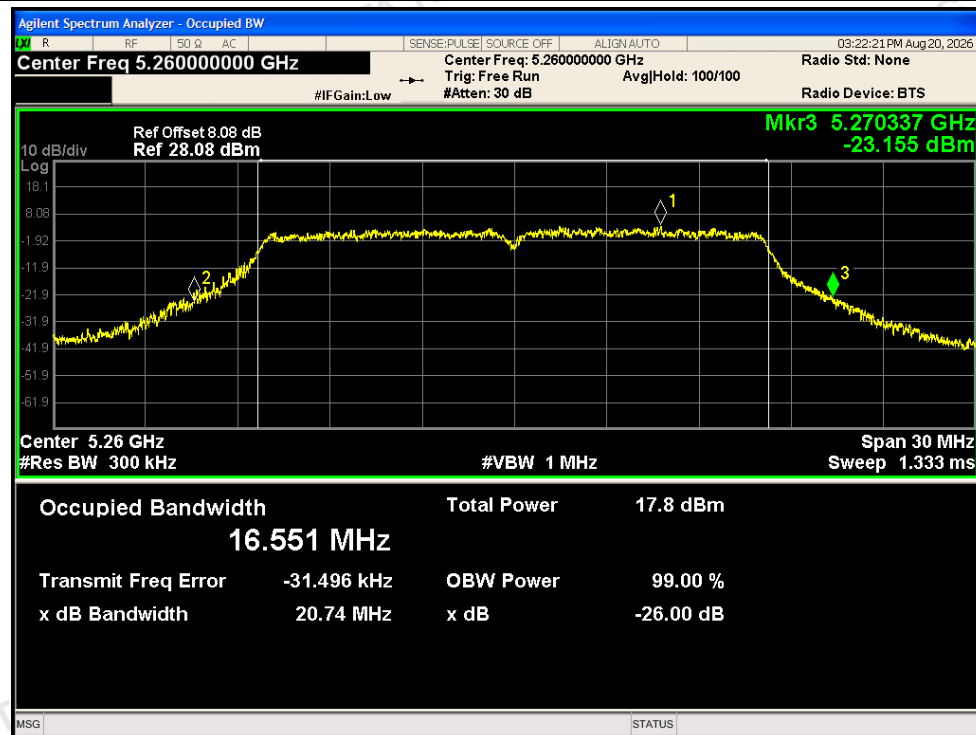


-26dB Bandwidth NVNT n40 5230MHz

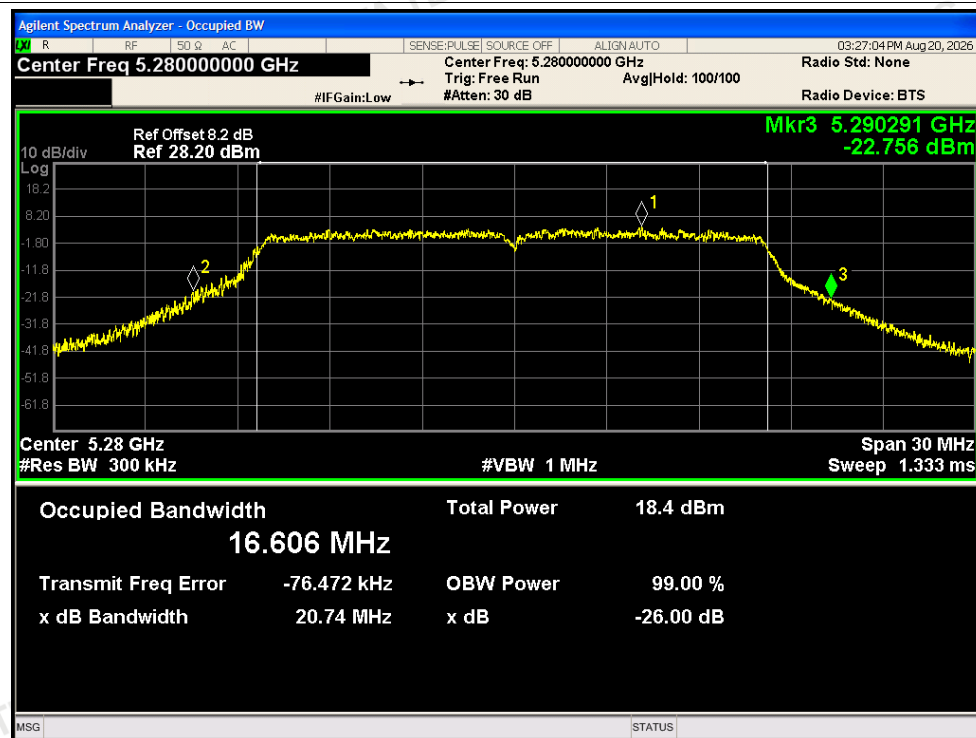


Test Graphs

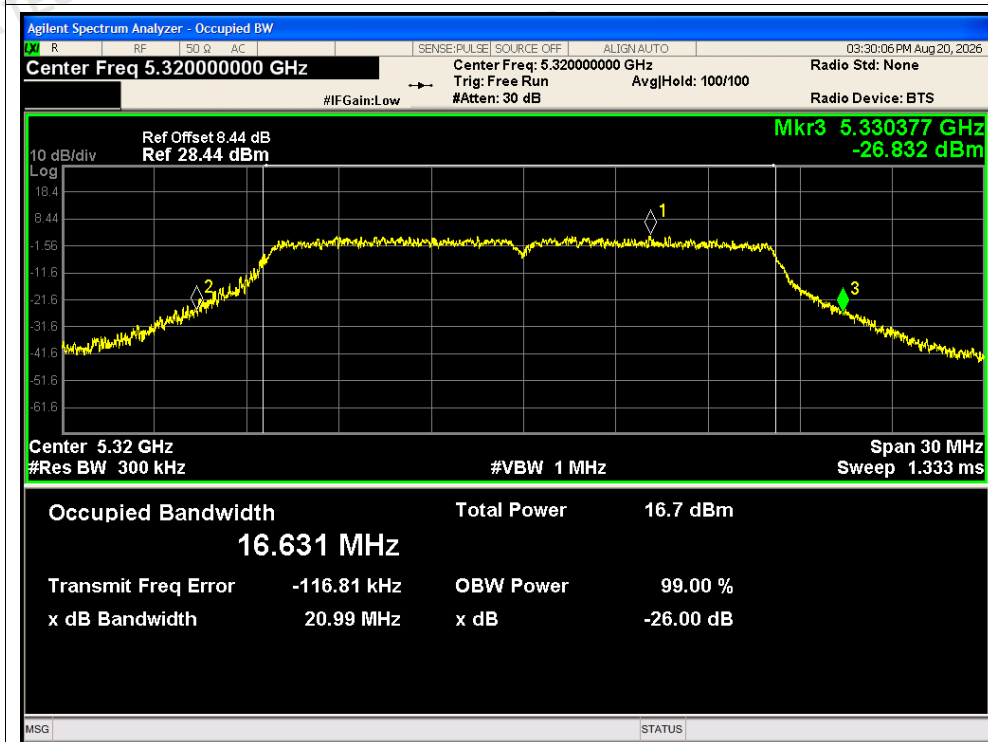
-26dB Bandwidth NVNT a 5260MHz



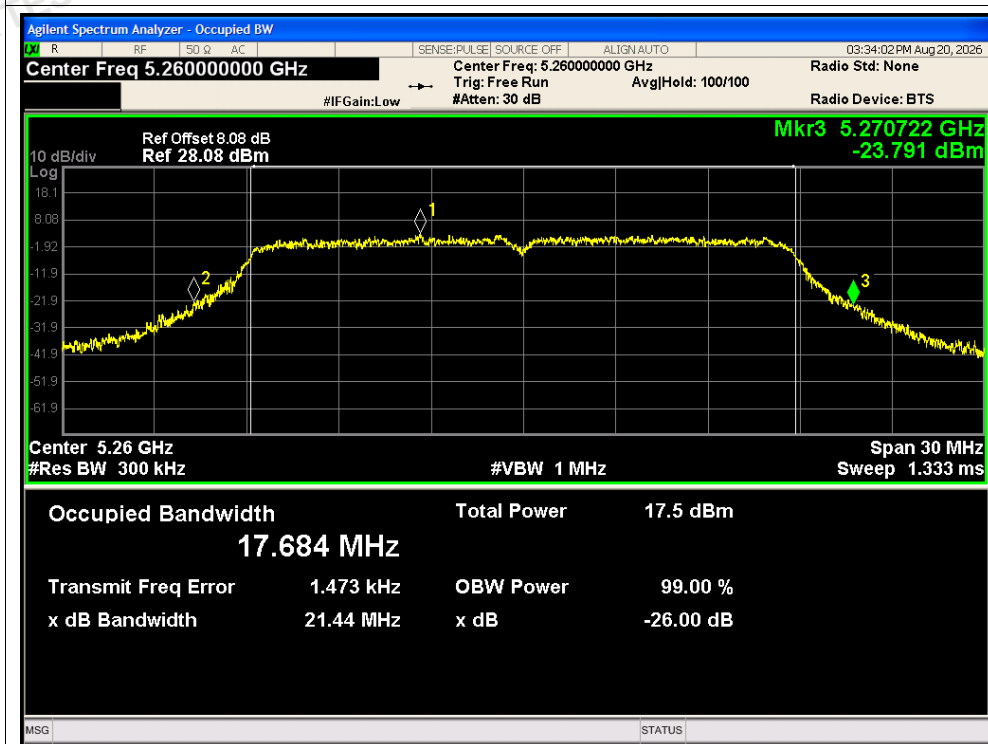
-26dB Bandwidth NVNT a 5280MHz



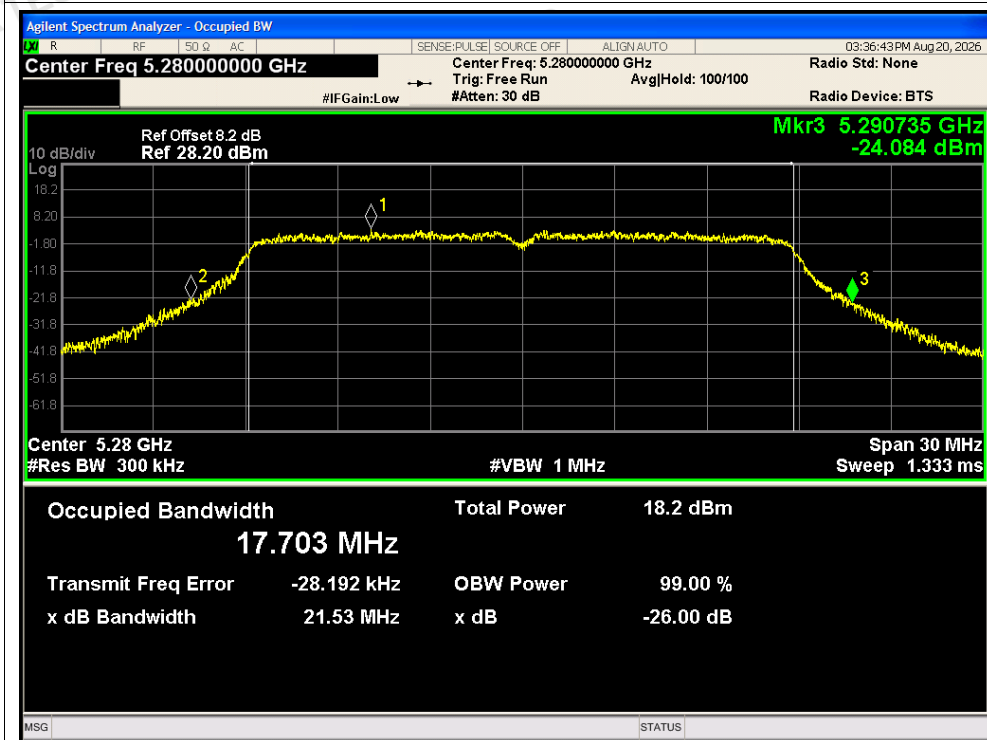
-26dB Bandwidth NVNT a 5320MHz



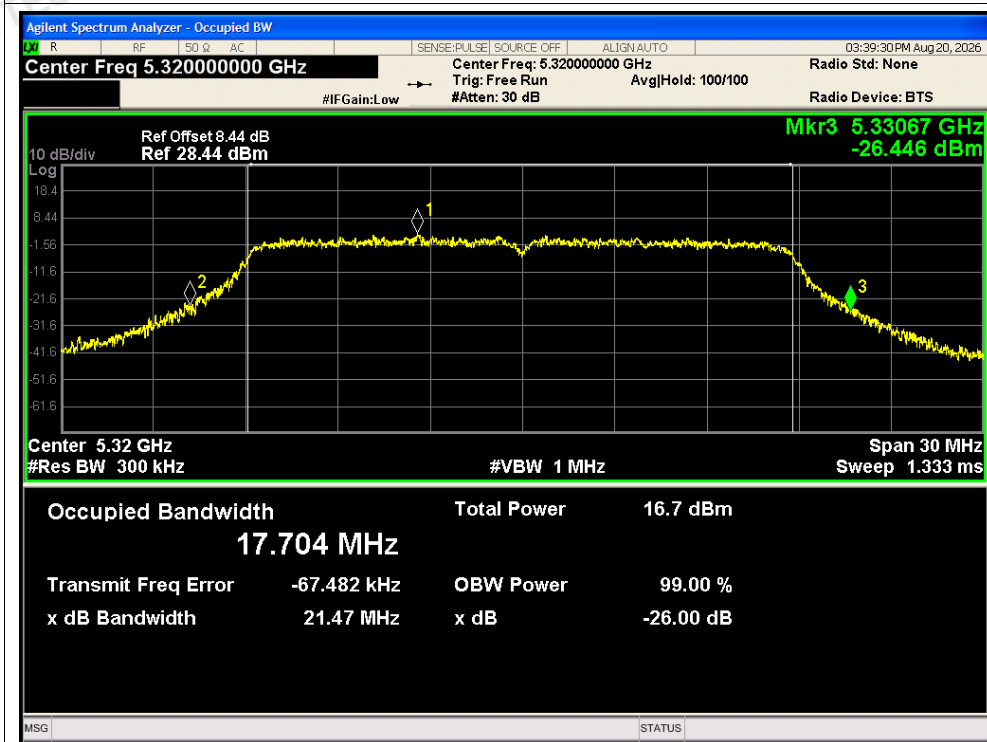
-26dB Bandwidth NVNT n20 5260MHz



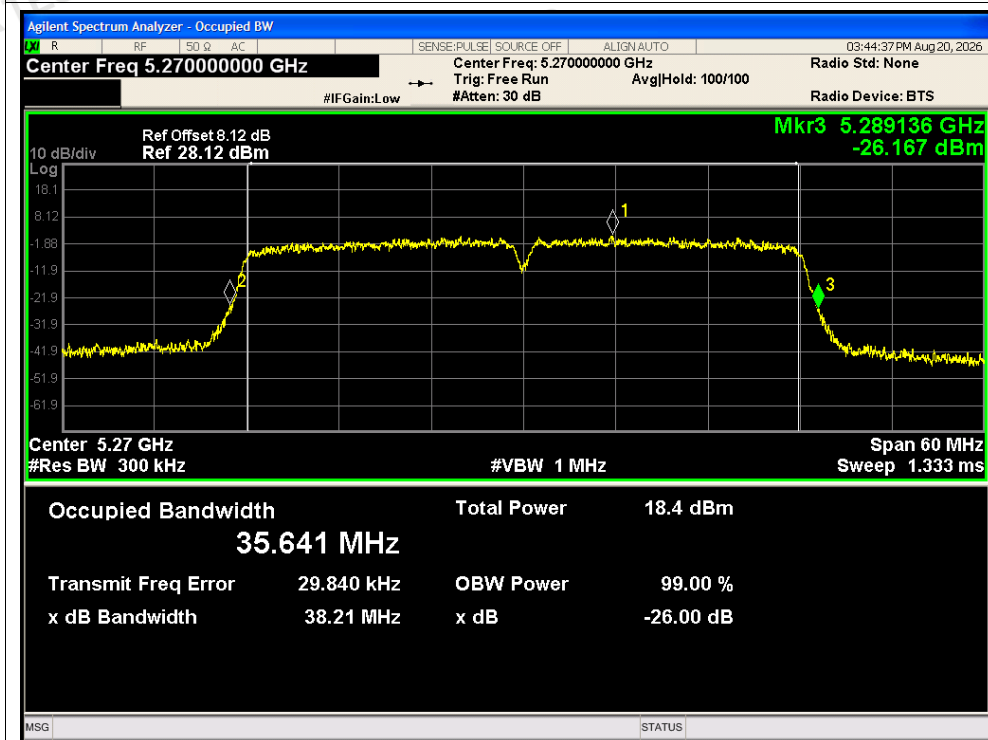
-26dB Bandwidth NVNT n20 5280MHz



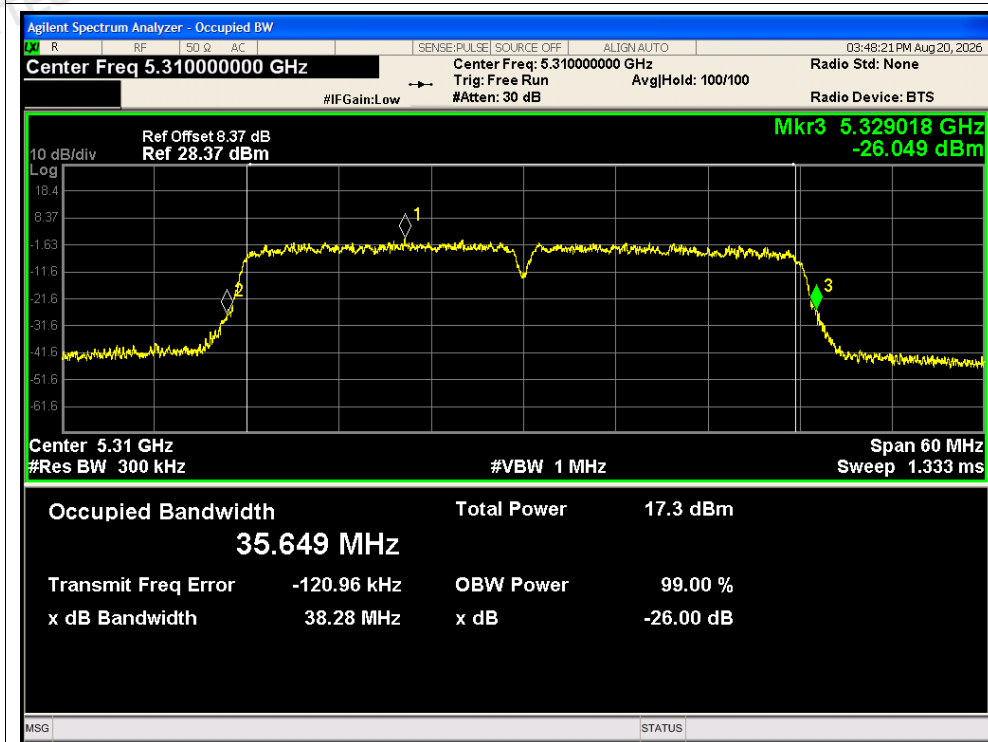
-26dB Bandwidth NVNT n20 5320MHz



-26dB Bandwidth NVNT n40 5270MHz

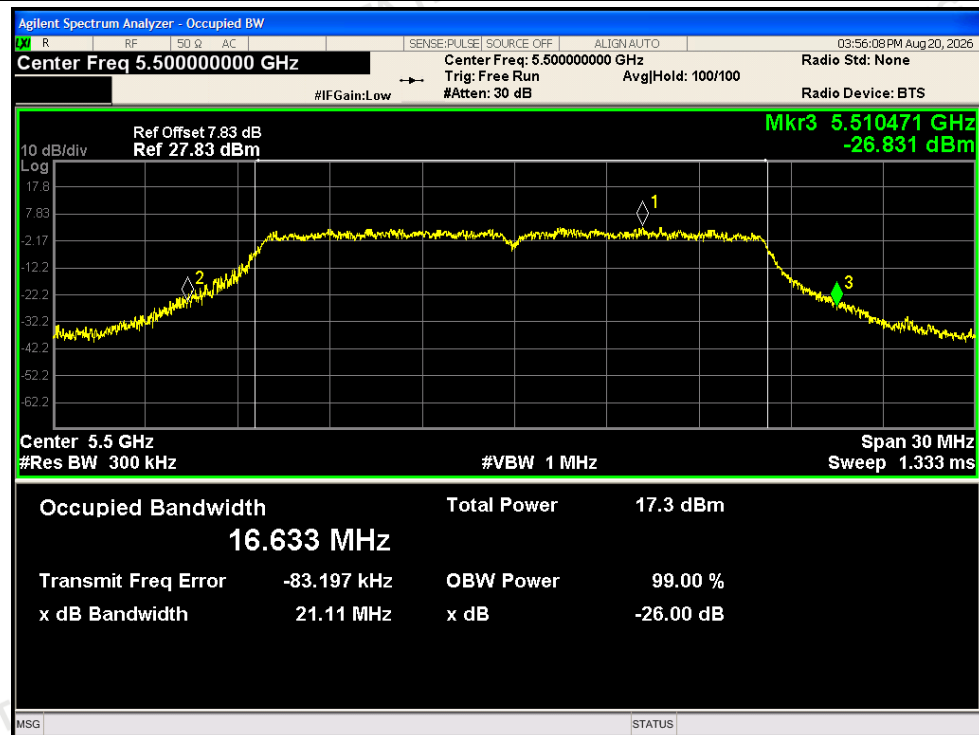


-26dB Bandwidth NVNT n40 5310MHz

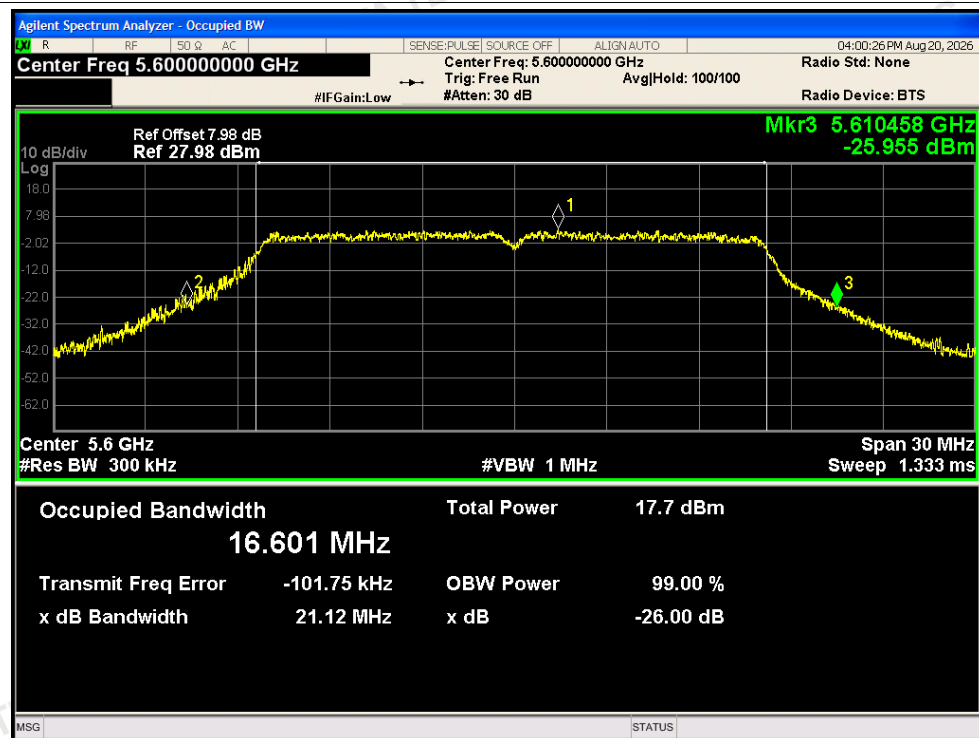


Test Graphs

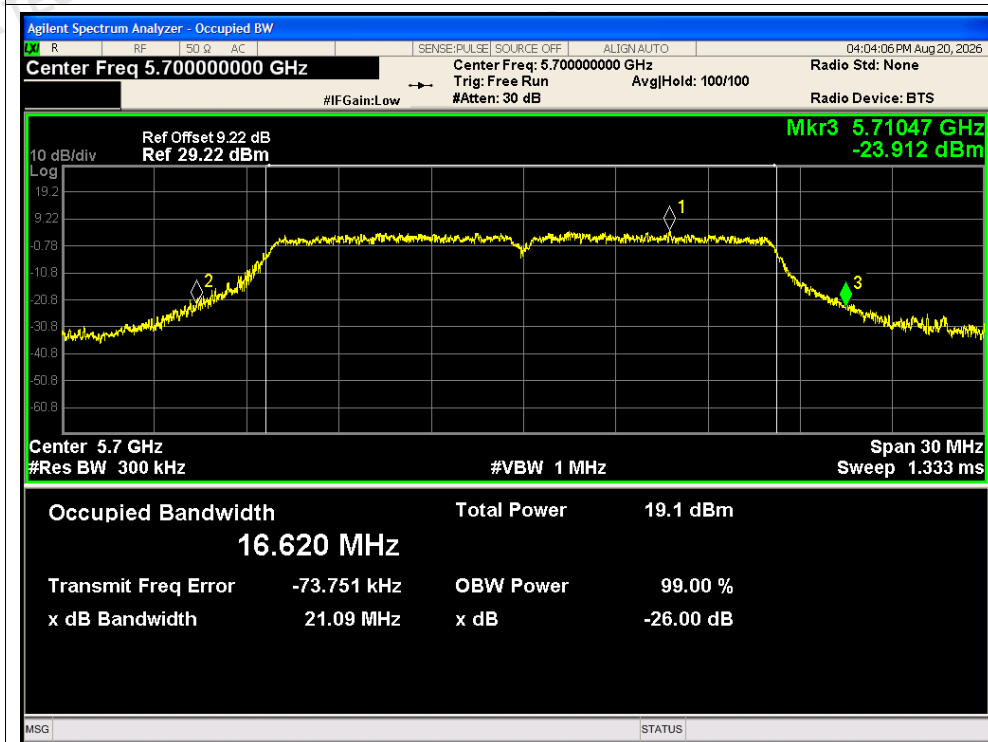
-26dB Bandwidth NVNT a 5500MHz



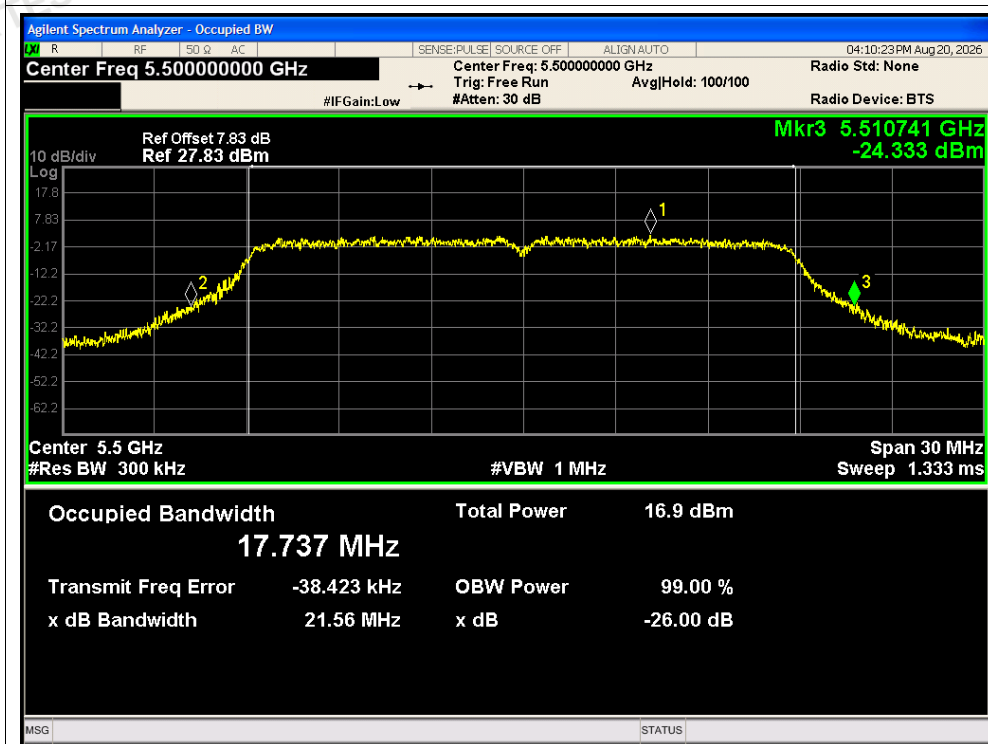
-26dB Bandwidth NVNT a 5600MHz



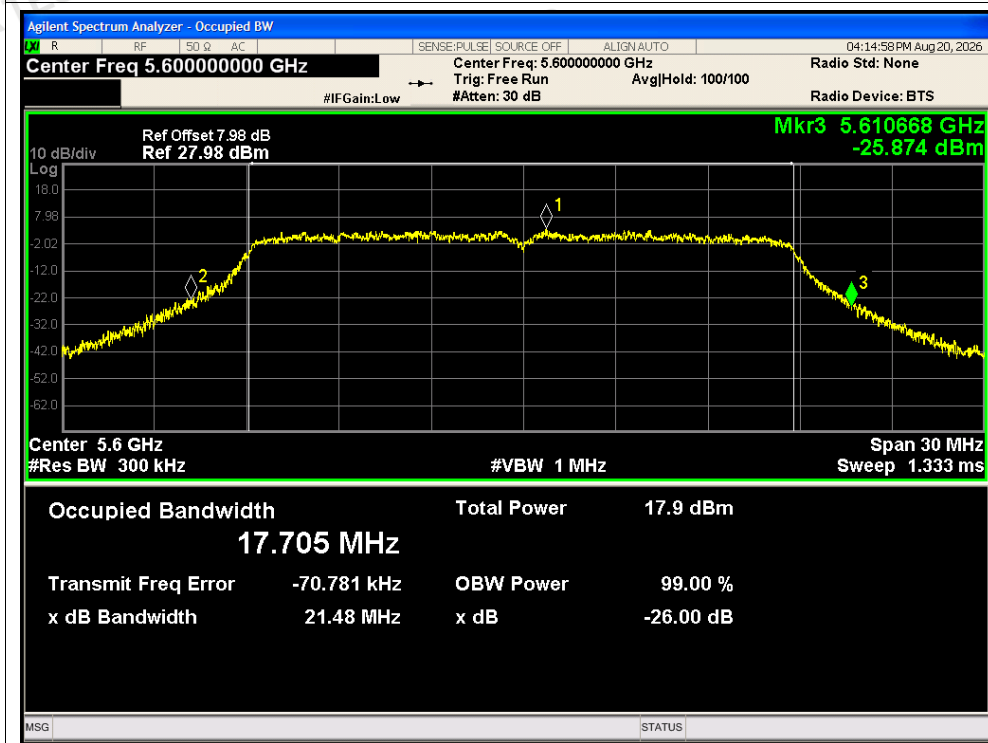
-26dB Bandwidth NVNT a 5700MHz



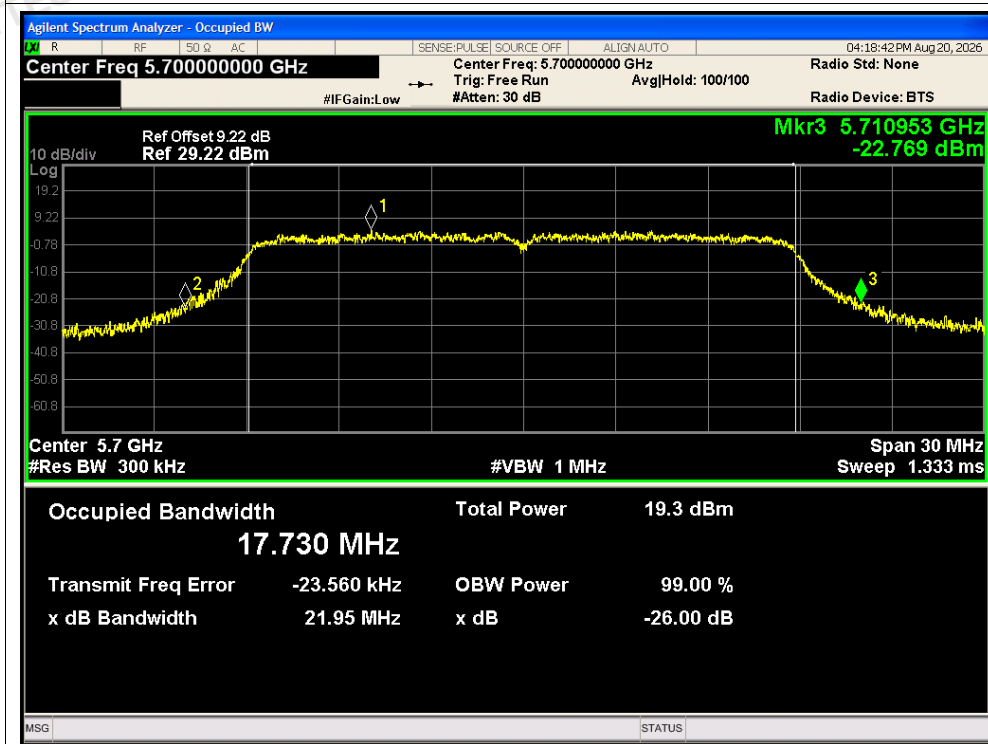
-26dB Bandwidth NVNT n20 5500MHz



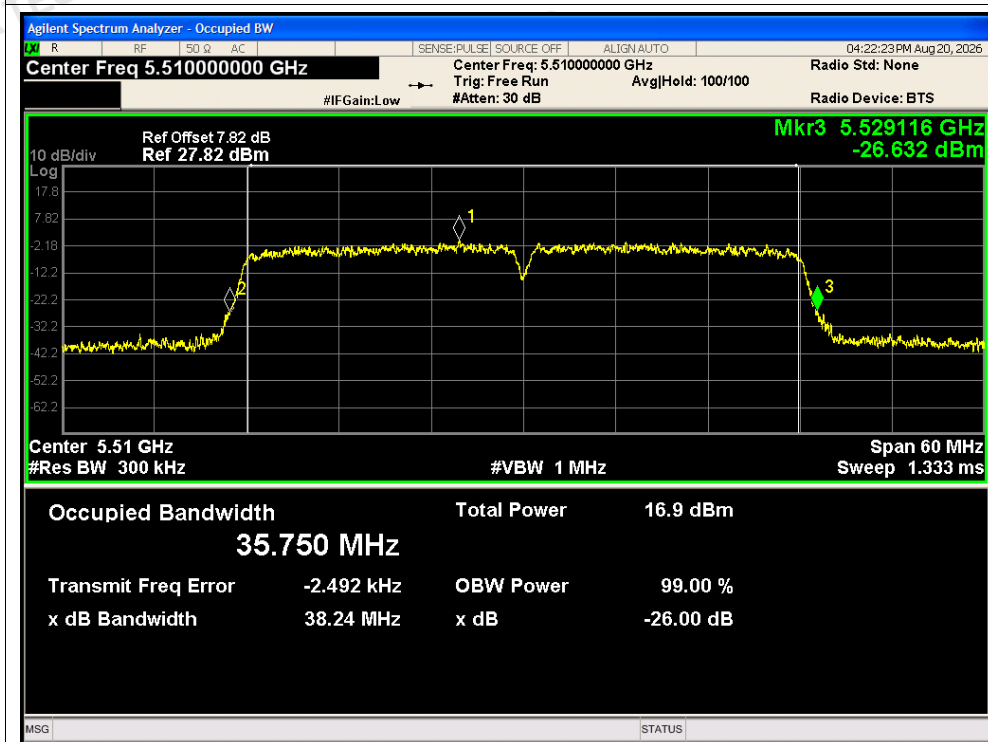
-26dB Bandwidth NVNT n20 5600MHz



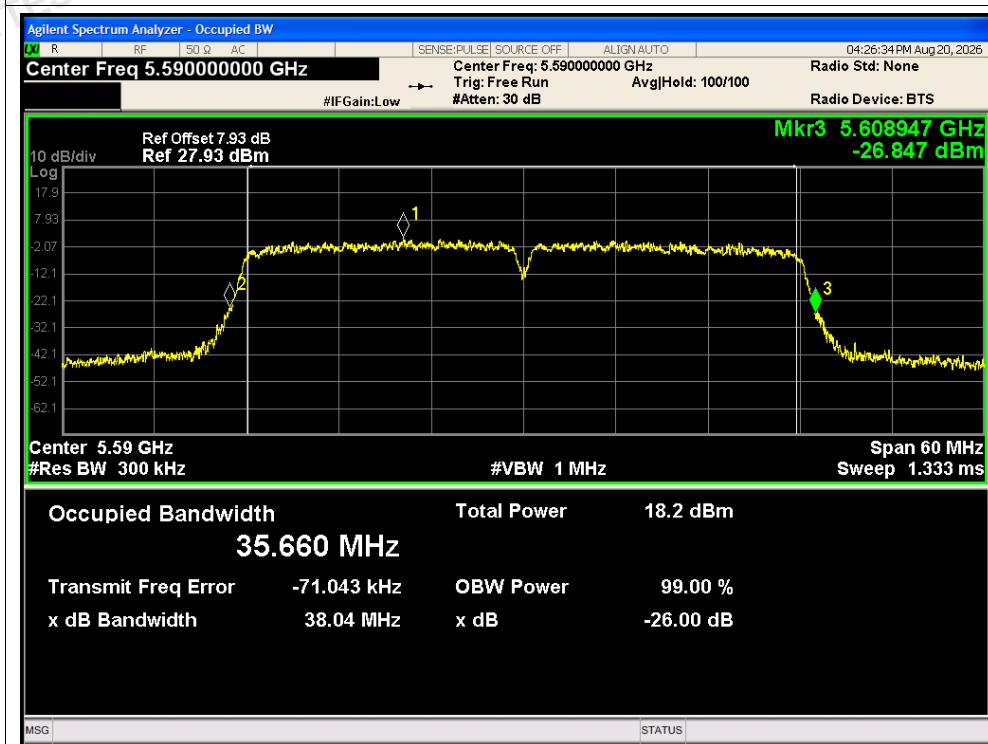
-26dB Bandwidth NVNT n20 5700MHz



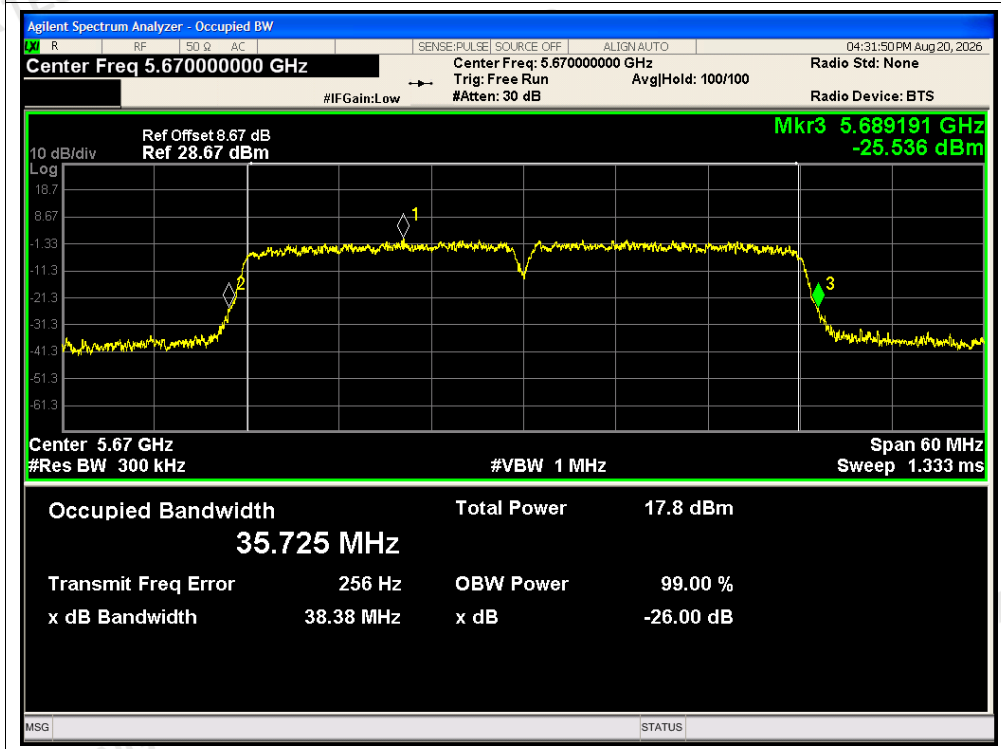
-26dB Bandwidth NVNT n40 5510MHz



-26dB Bandwidth NVNT n40 5590MHz



-26dB Bandwidth NVNT n40 5670MHz

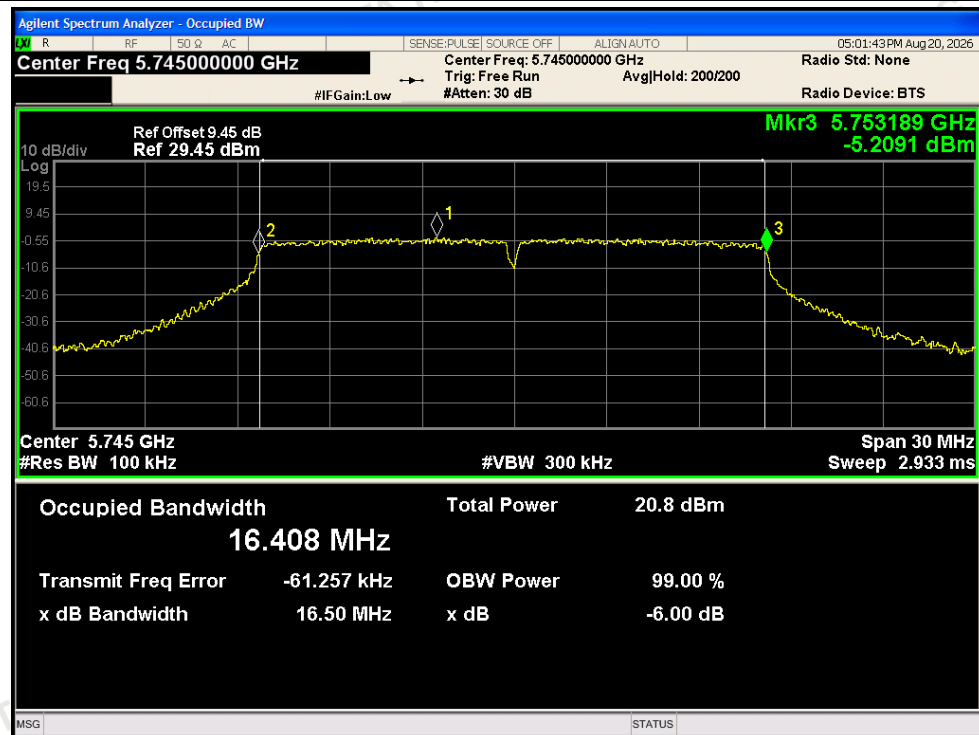


-6dB Bandwidth

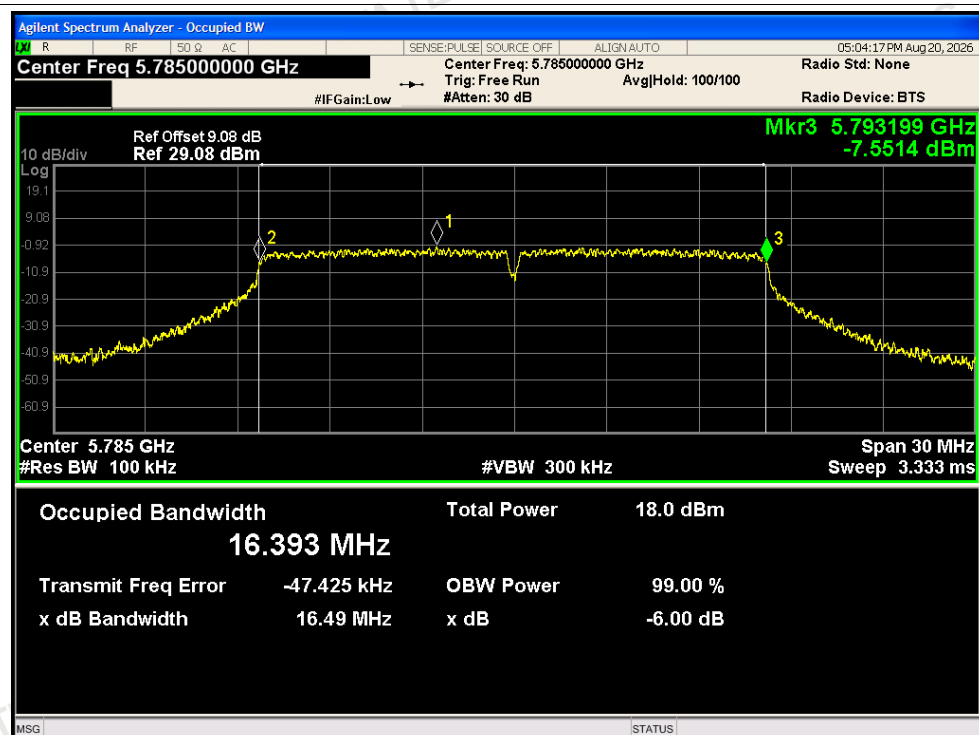
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.50	0.5	Pass
NVNT	a	5785	16.49	0.5	Pass
NVNT	a	5825	16.50	0.5	Pass
NVNT	n20	5745	17.67	0.5	Pass
NVNT	n20	5785	17.71	0.5	Pass
NVNT	n20	5825	17.66	0.5	Pass
NVNT	n40	5755	36.34	0.5	Pass
NVNT	n40	5795	36.36	0.5	Pass

Test Graphs

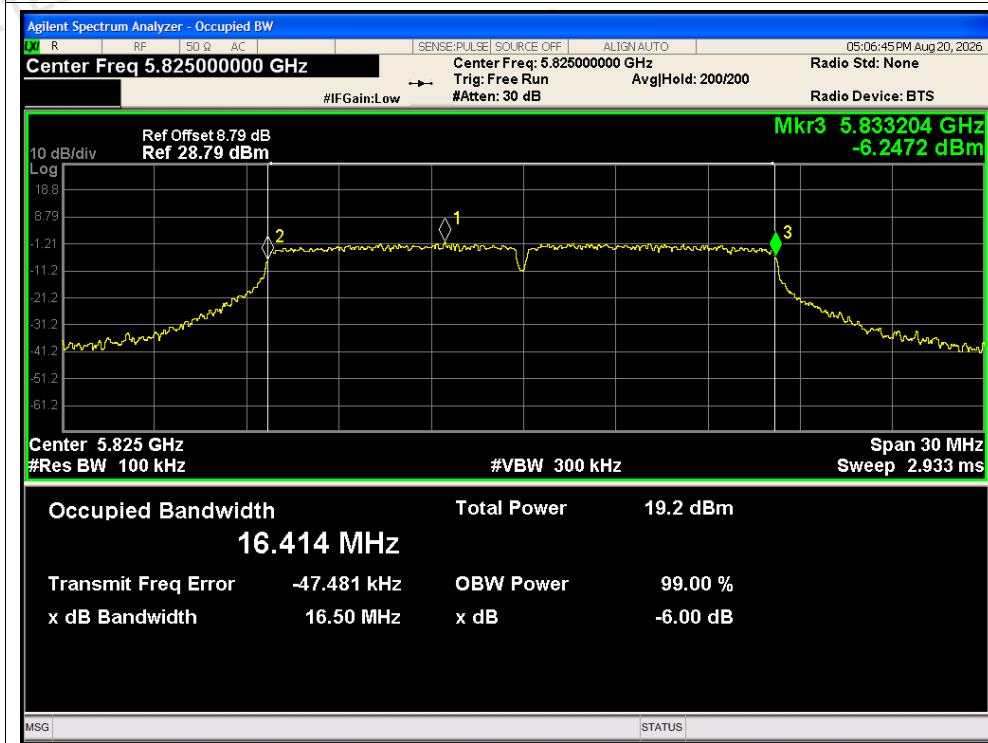
-6dB Bandwidth NVNT a 5745MHz



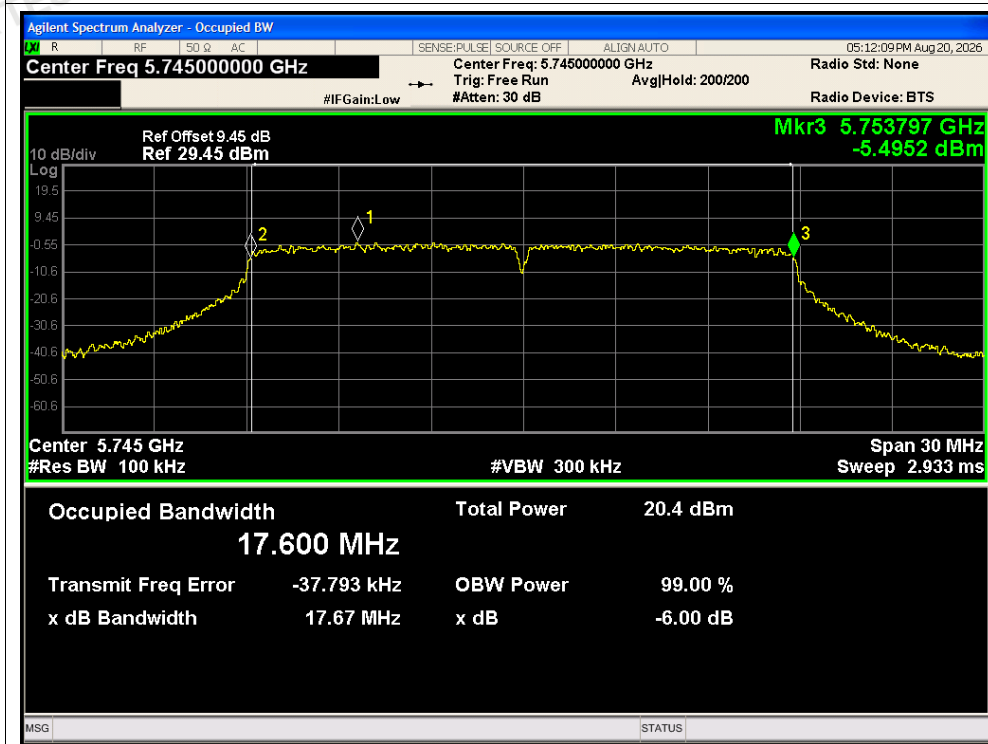
-6dB Bandwidth NVNT a 5785MHz



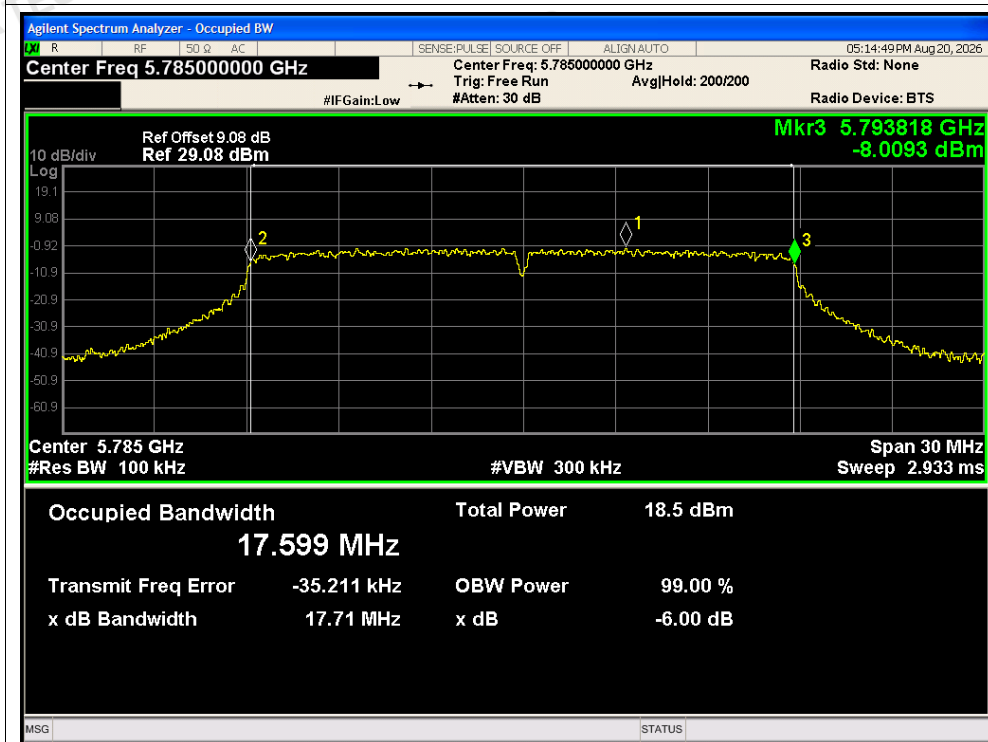
-6dB Bandwidth NVNT a 5825MHz



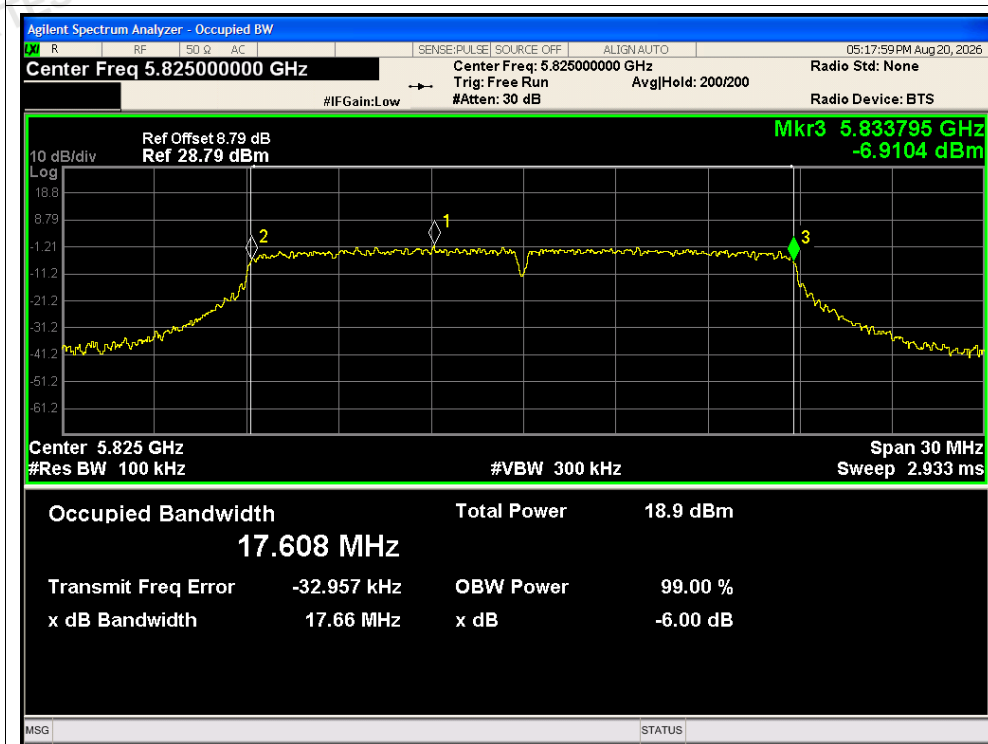
-6dB Bandwidth NVNT n20 5745MHz



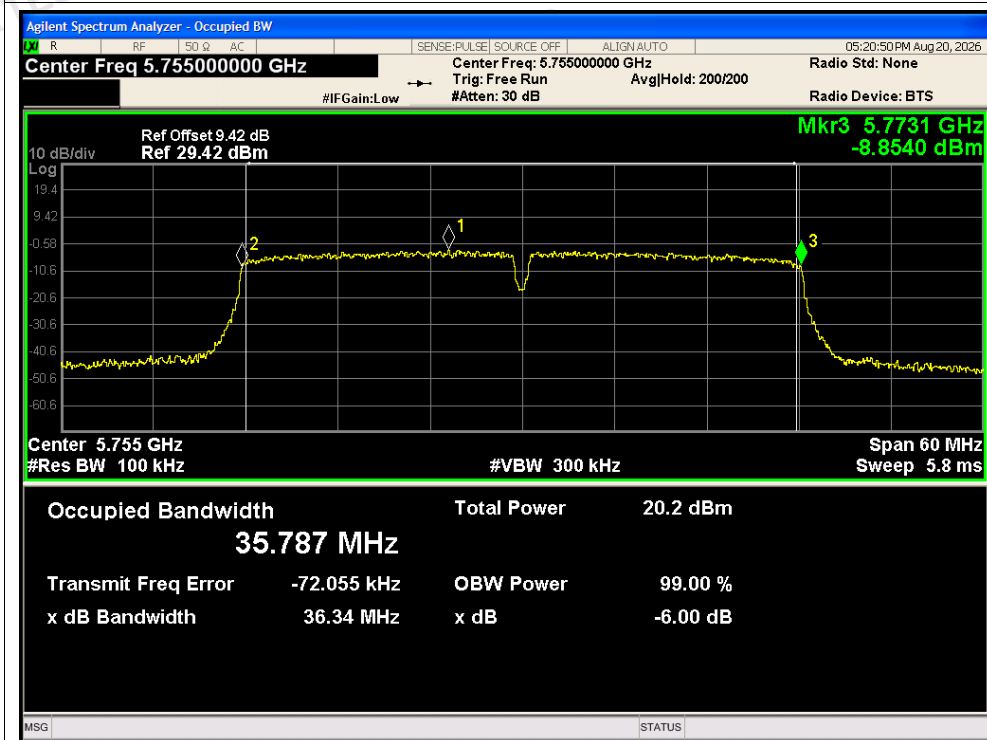
-6dB Bandwidth NVNT n20 5785MHz



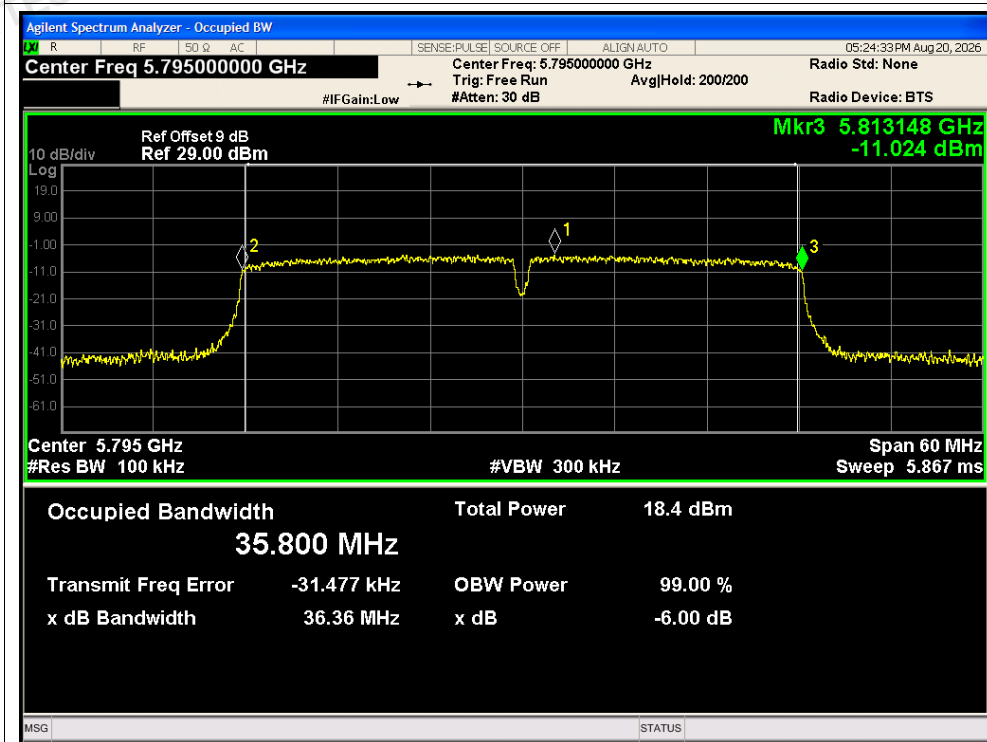
-6dB Bandwidth NVNT n20 5825MHz



-6dB Bandwidth NVNT n40 5755MHz



-6dB Bandwidth NVNT n40 5795MHz

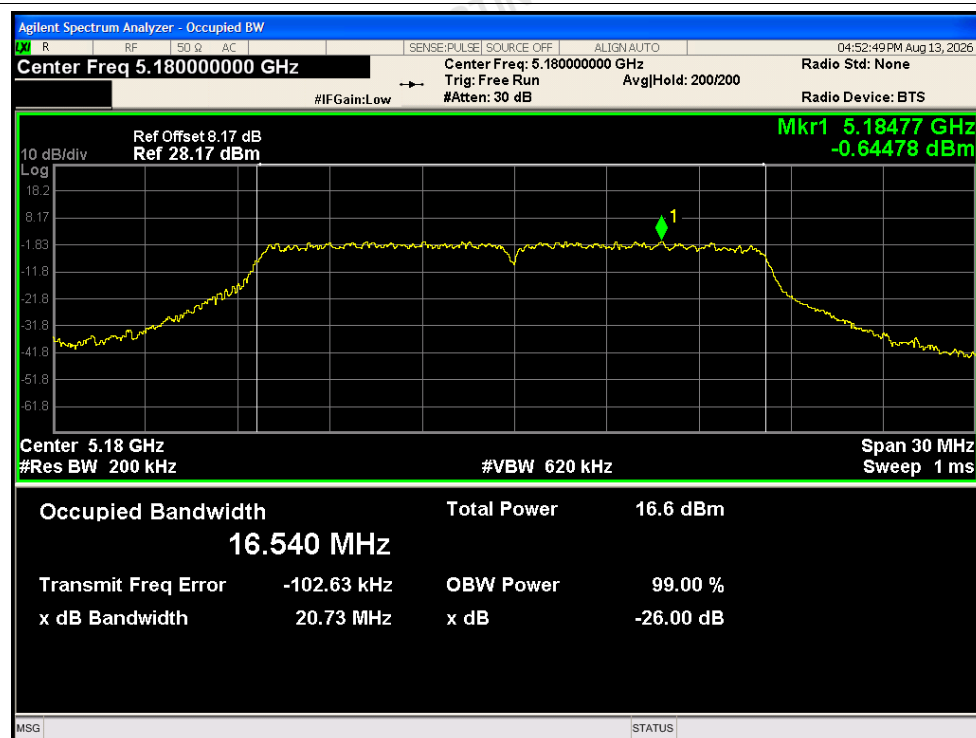


Occupied Channel Bandwidth

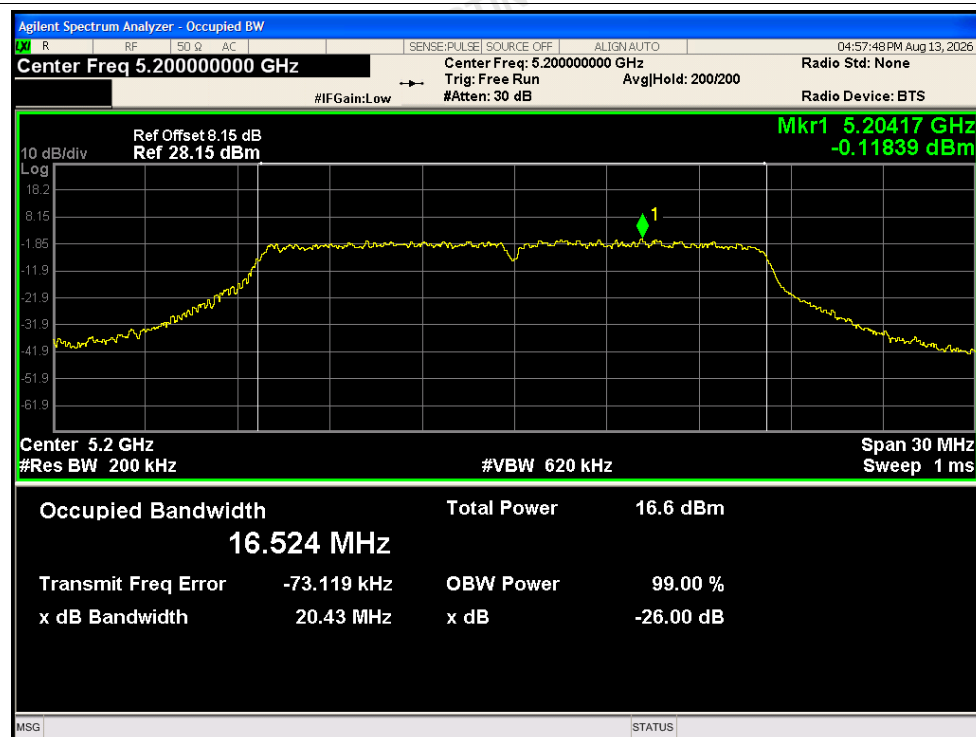
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.540
NVNT	a	5200	16.524
NVNT	a	5240	16.489
NVNT	n20	5180	17.659
NVNT	n20	5200	17.653
NVNT	n20	5240	17.640
NVNT	n40	5190	35.739
NVNT	n40	5230	35.717
NVNT	a	5260	16.474
NVNT	a	5280	16.466
NVNT	a	5320	16.460
NVNT	n20	5260	17.622
NVNT	n20	5280	17.618
NVNT	n20	5320	17.625
NVNT	n40	5270	35.654
NVNT	n40	5310	35.695
NVNT	a	5500	16.496
NVNT	a	5600	16.476
NVNT	a	5700	16.517
NVNT	n20	5500	17.640
NVNT	n20	5600	17.631
NVNT	n20	5700	17.642
NVNT	n40	5510	35.733
NVNT	n40	5590	35.651
NVNT	n40	5670	35.748
NVNT	a	5745	16.472
NVNT	a	5785	16.533
NVNT	a	5825	16.540
NVNT	n20	5745	17.650
NVNT	n20	5785	17.639
NVNT	n20	5825	17.645
NVNT	n40	5755	35.697
NVNT	n40	5795	35.711

Test Graphs

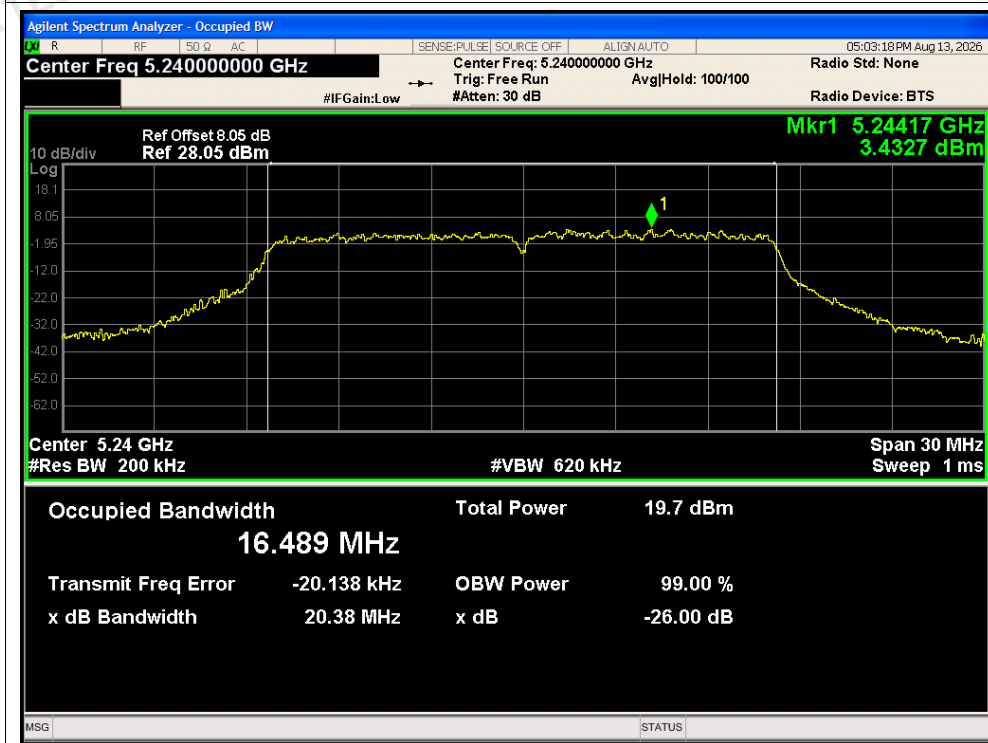
OBW NVNT a 5180MHz



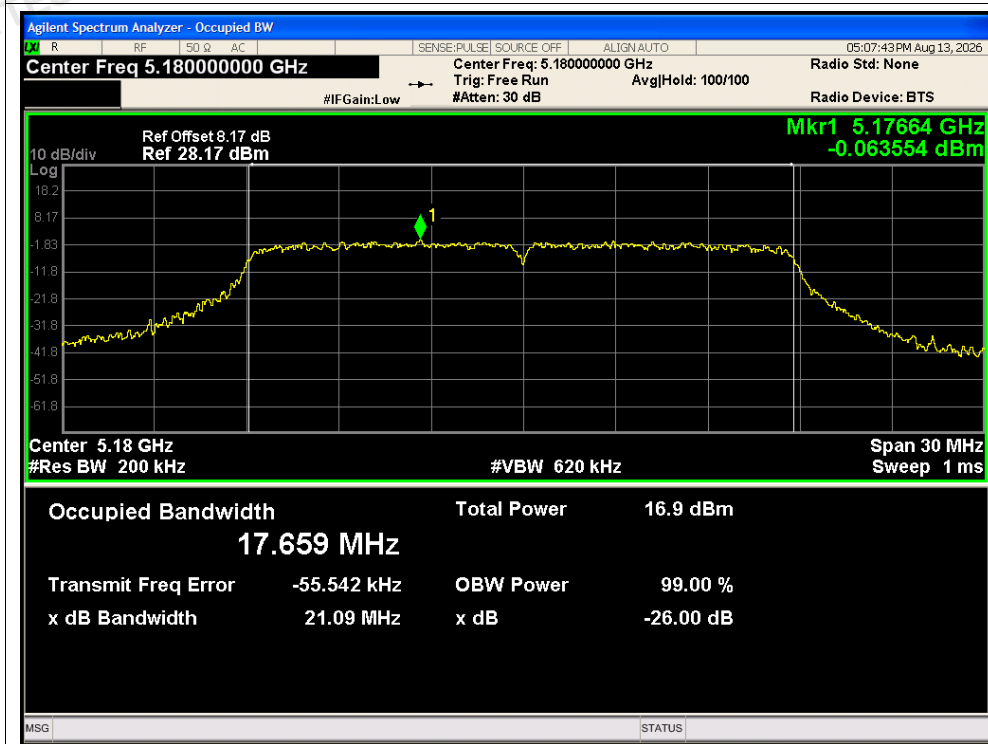
OBW NVNT a 5200MHz



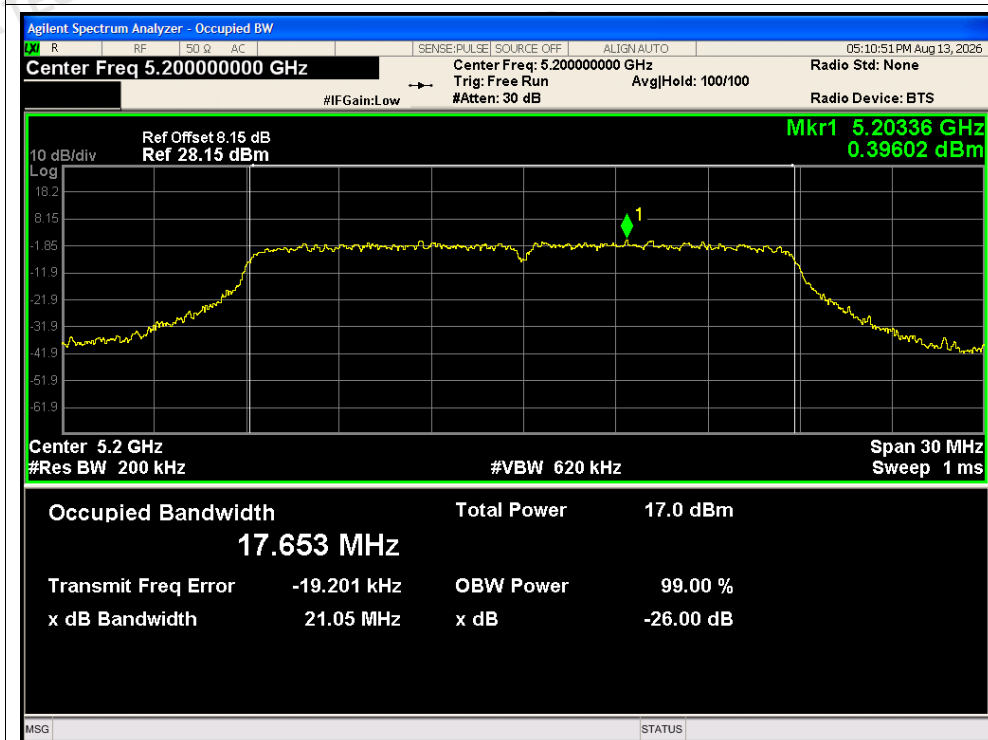
OBW NVNT a 5240MHz



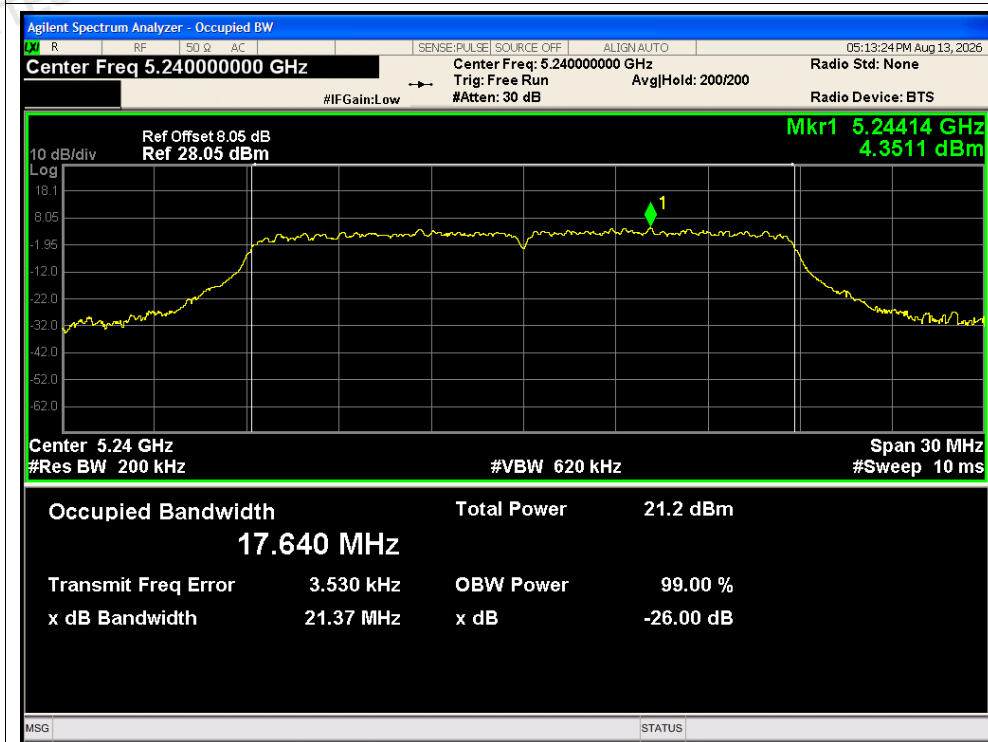
OBW NVNT n20 5180MHz



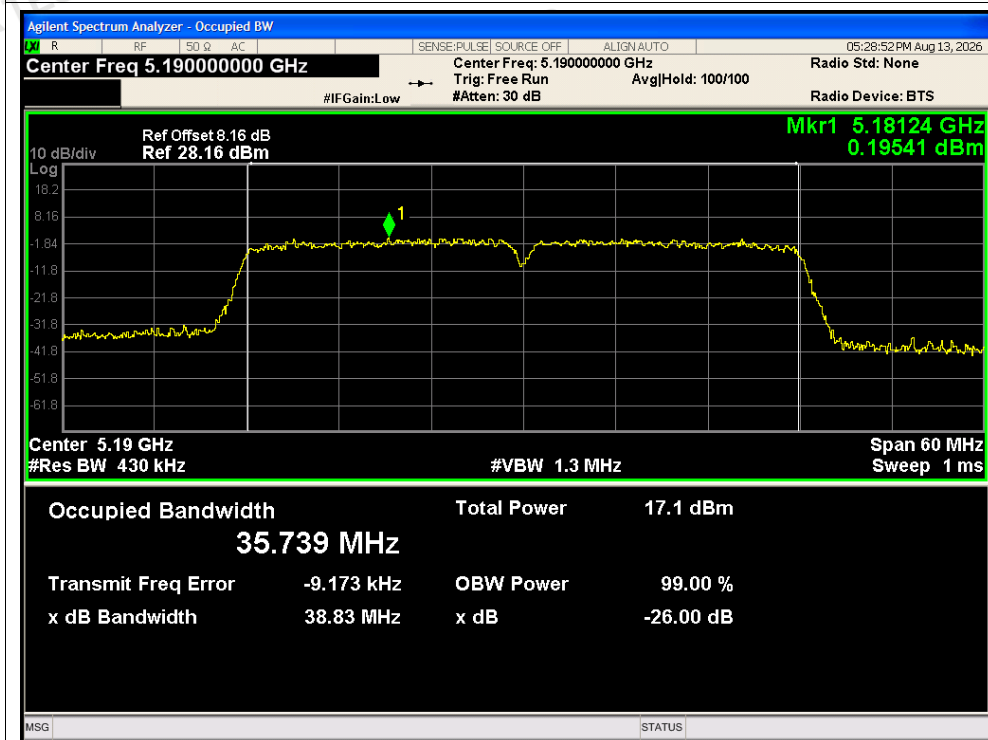
OBW NVNT n20 5200MHz



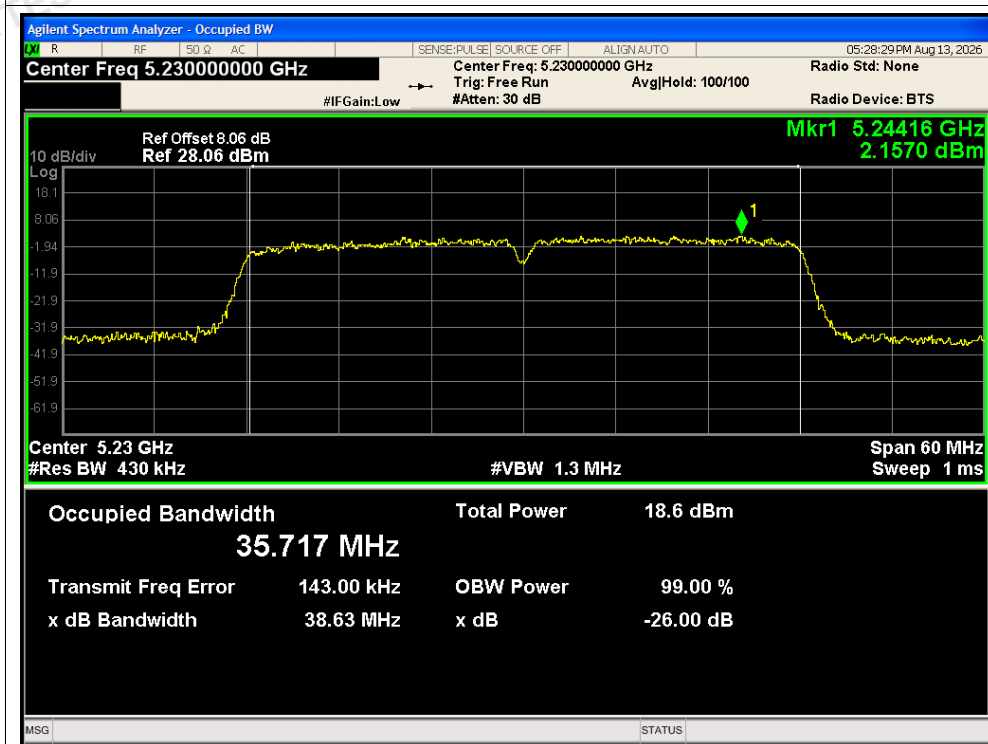
OBW NVNT n20 5240MHz



OBW NVNT n40 5190MHz

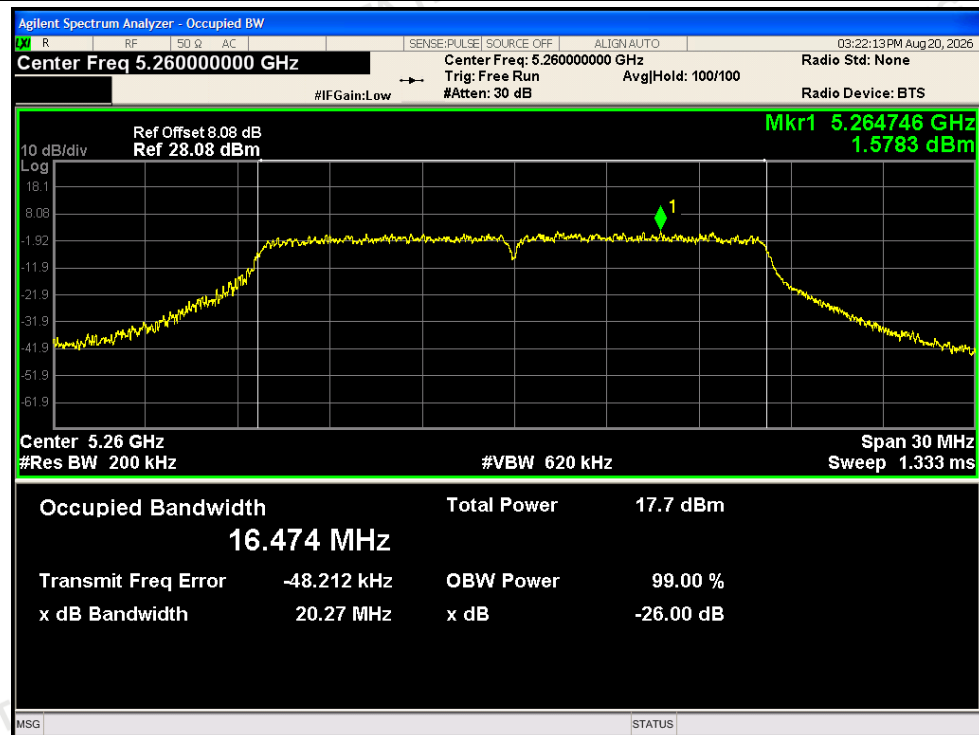


OBW NVNT n40 5230MHz

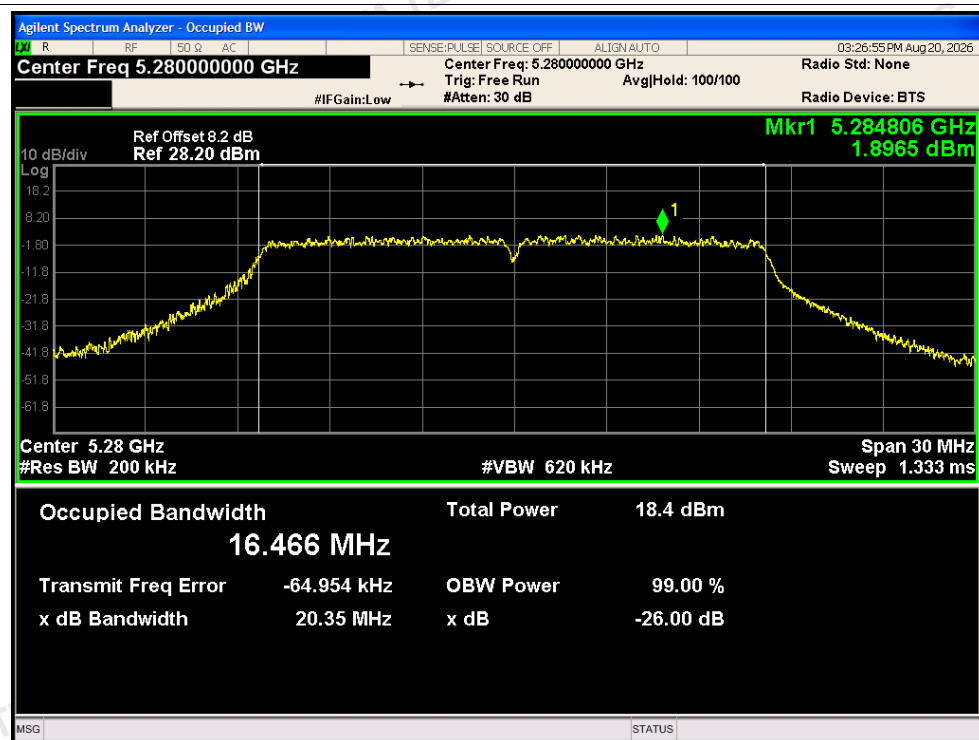


Test Graphs

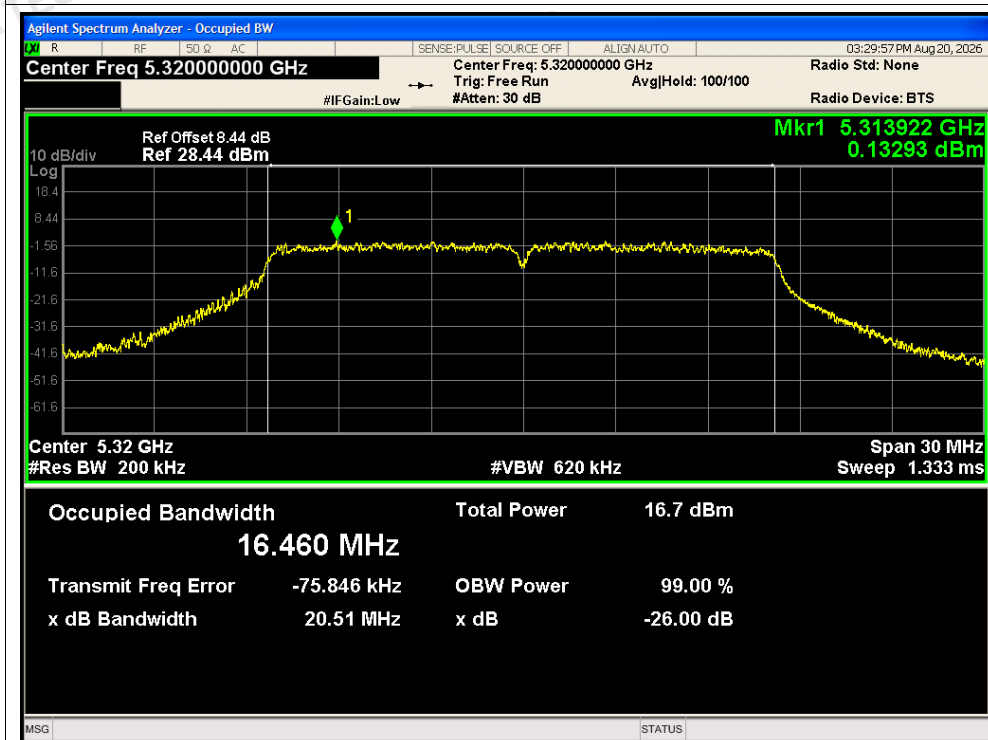
OBW NVNT a 5260MHz



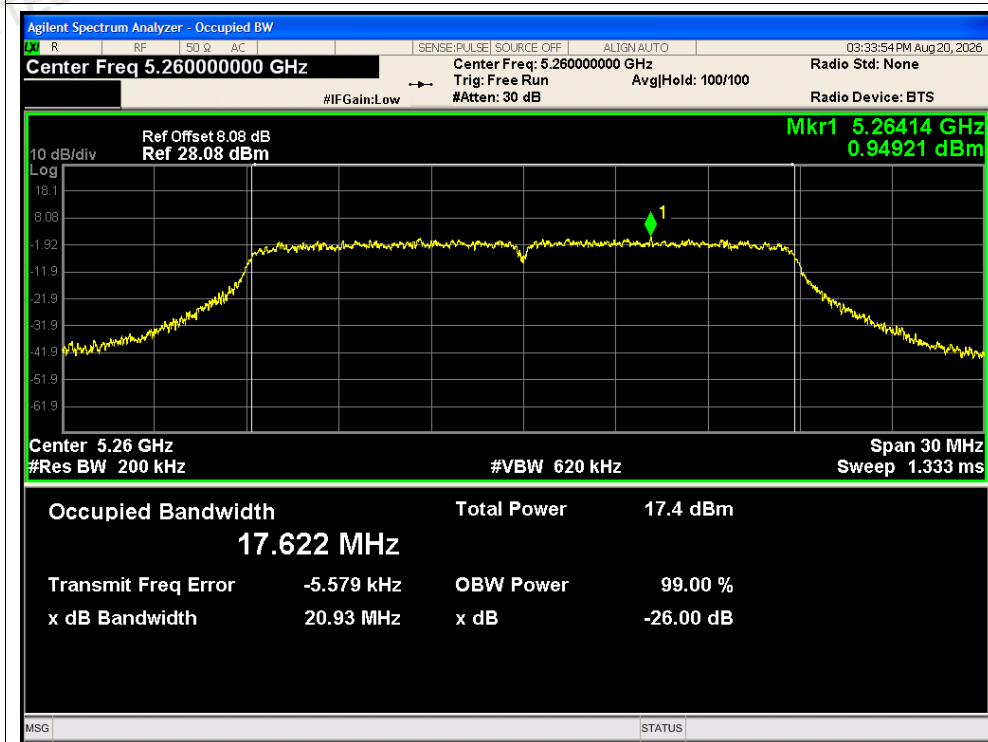
OBW NVNT a 5280MHz



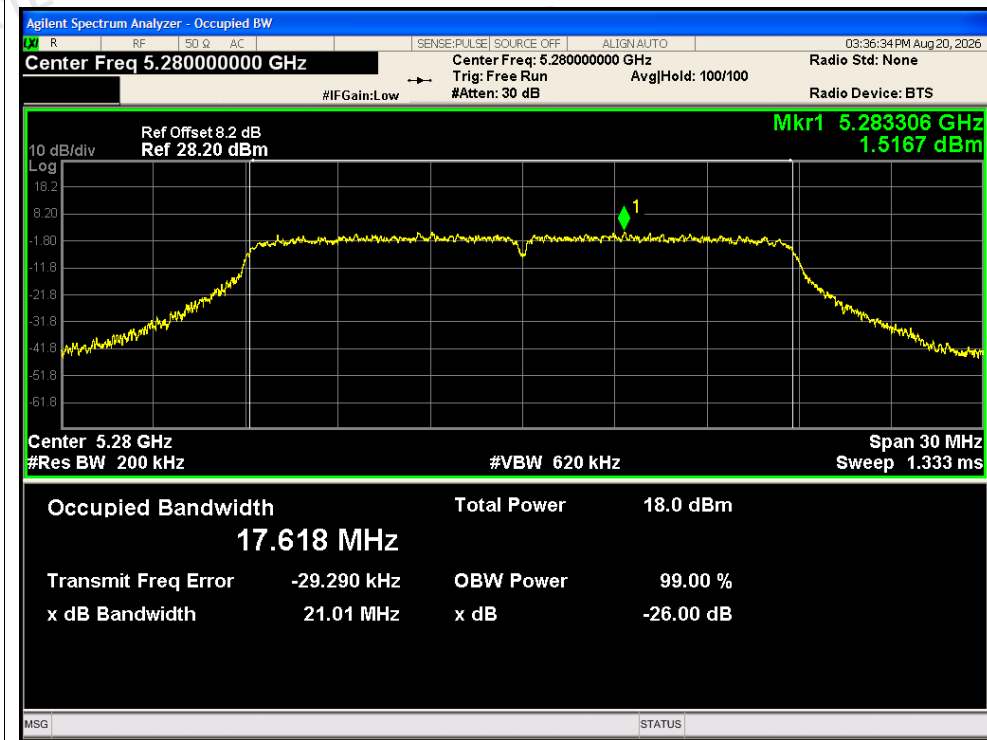
OBW NVNT a 5320MHz



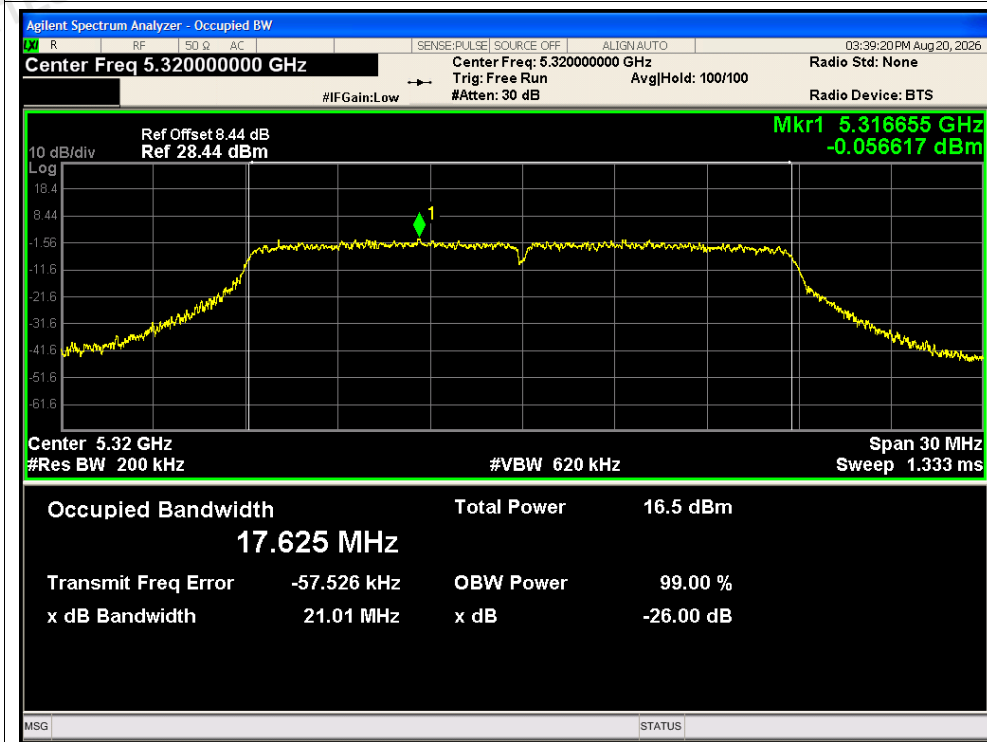
OBW NVNT n20 5260MHz



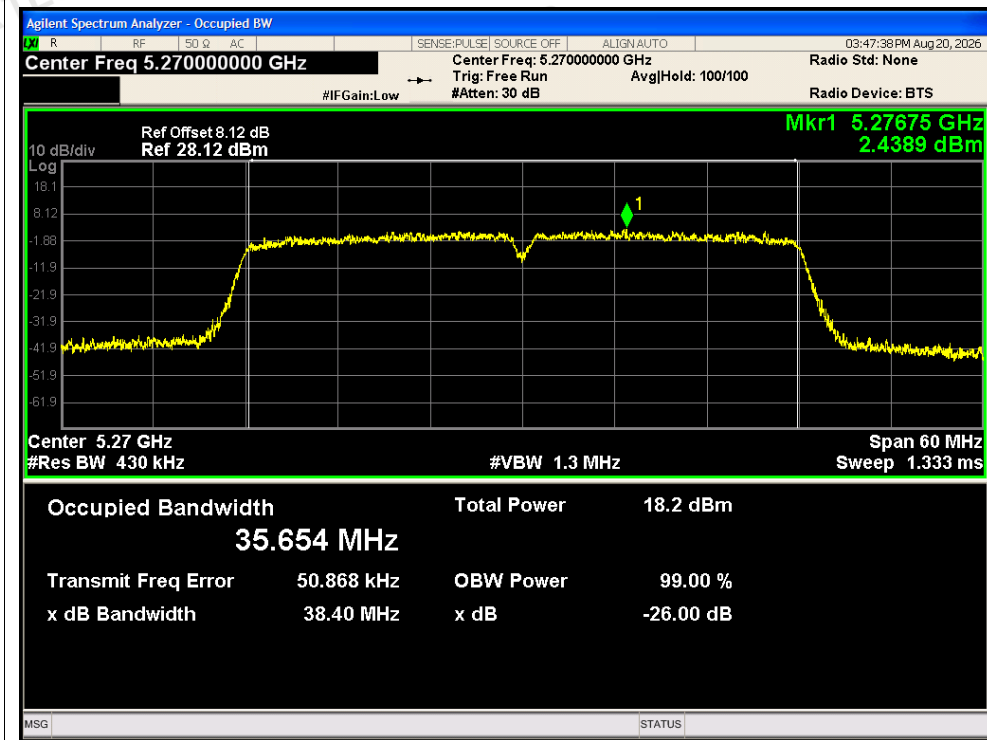
OBW NVNT n20 5280MHz



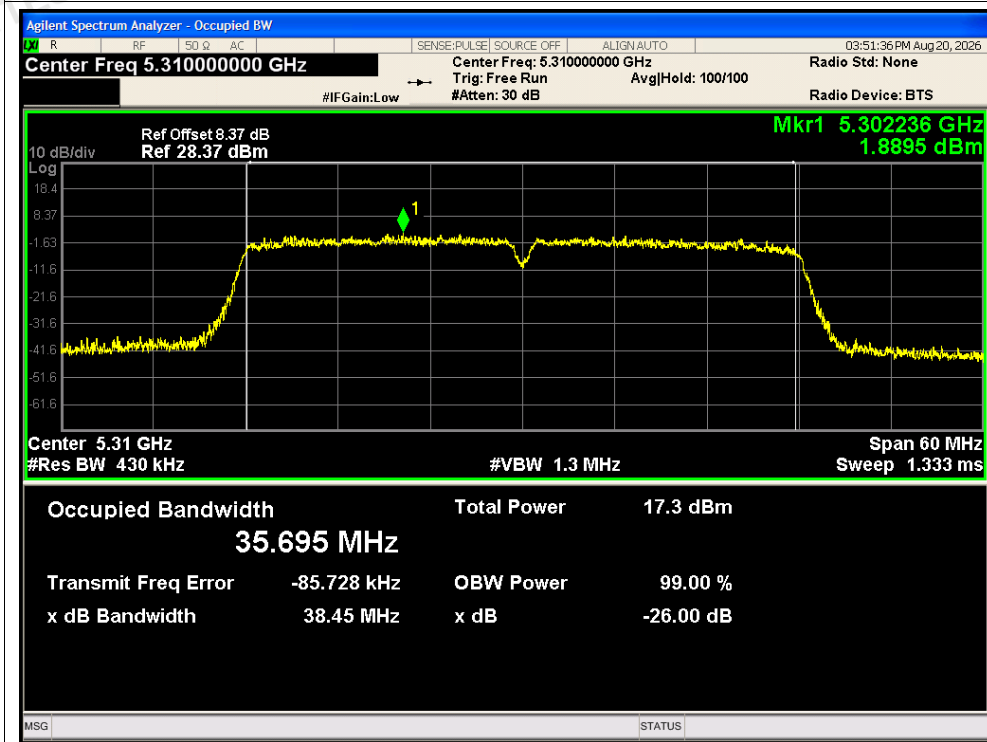
OBW NVNT n20 5320MHz



OBW NVNT n40 5270MHz

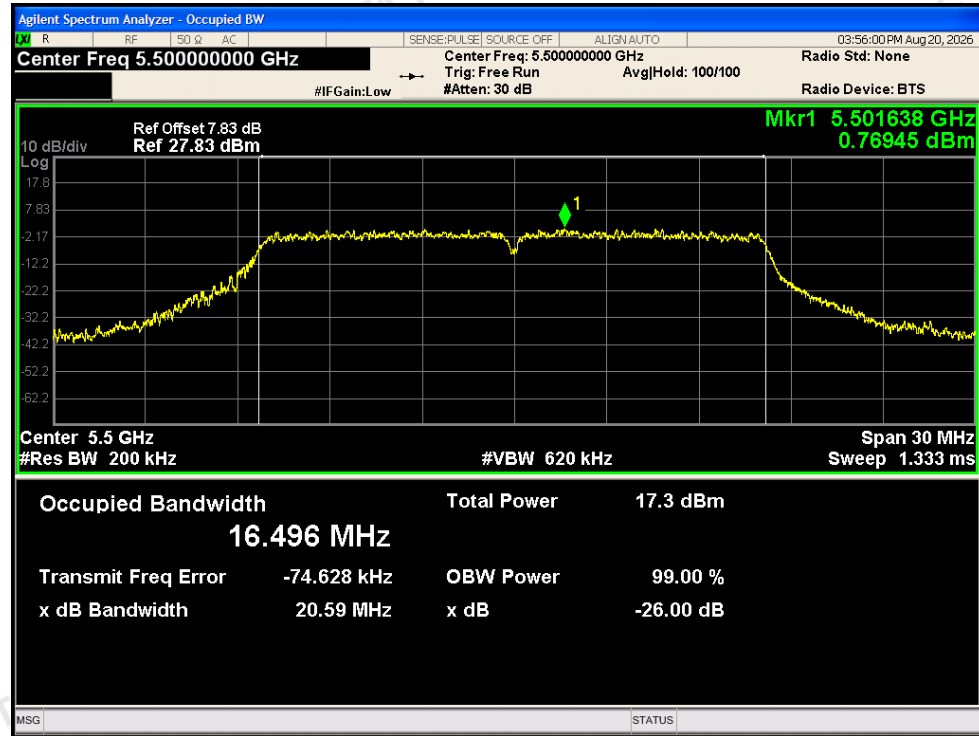


OBW NVNT n40 5310MHz

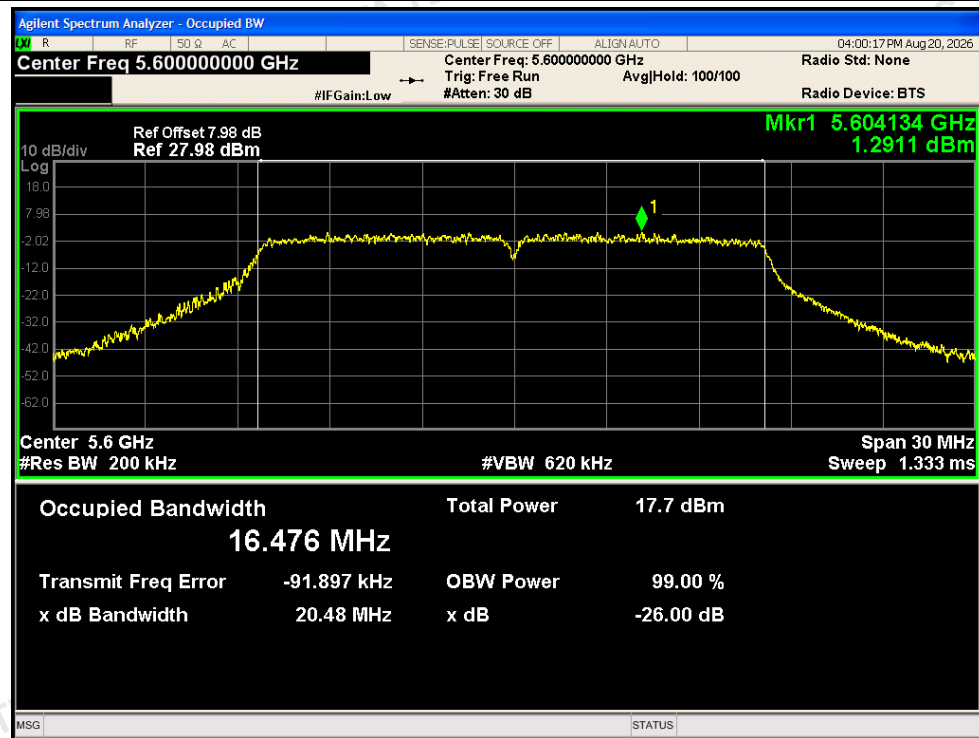


Test Graphs

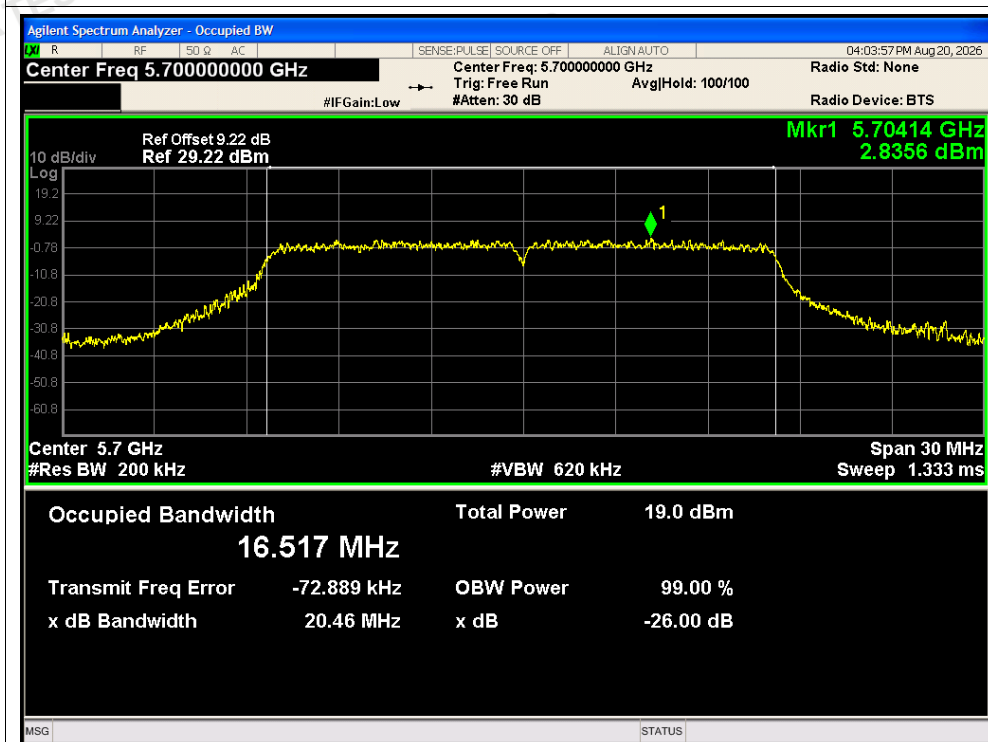
OBW NVNT a 5500MHz



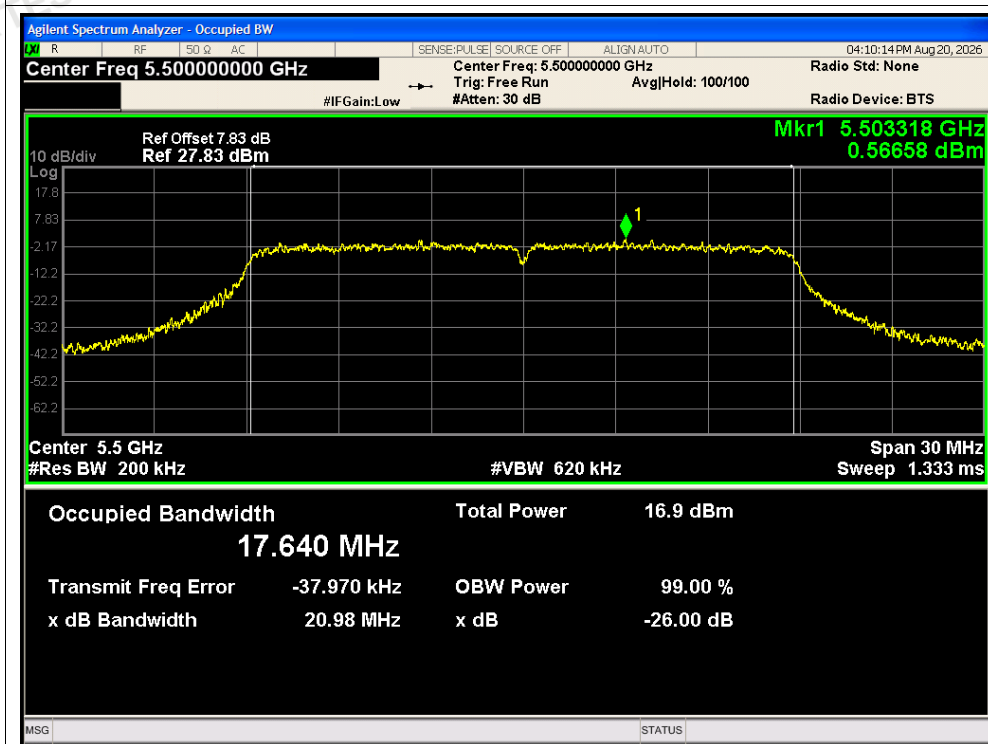
OBW NVNT a 5600MHz



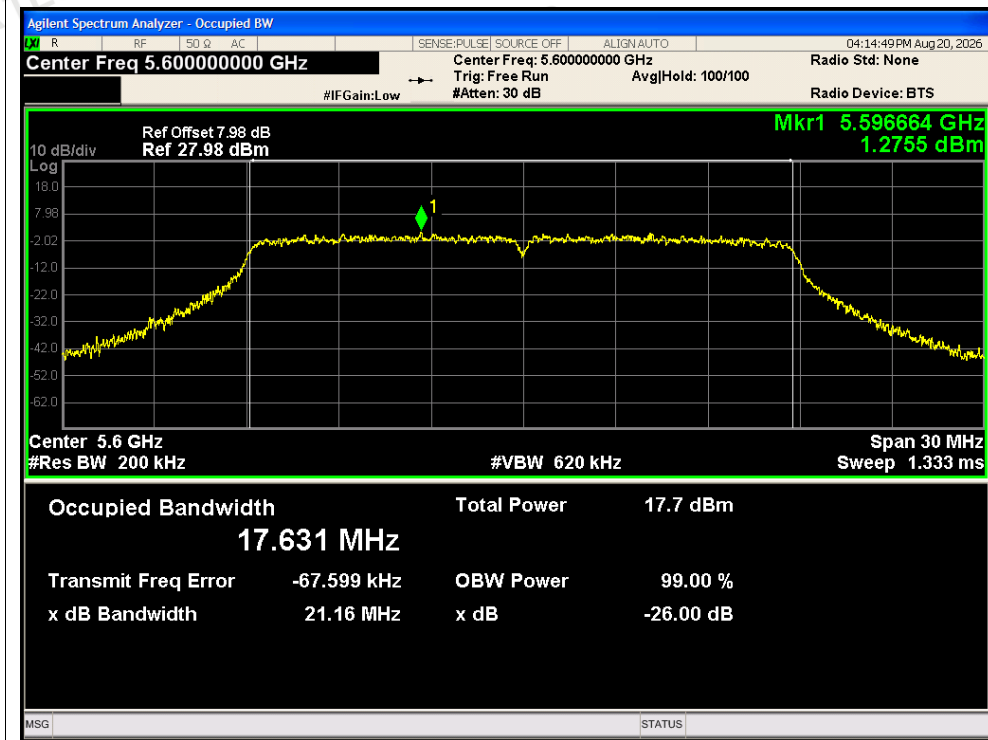
OBW NVNT a 5700MHz



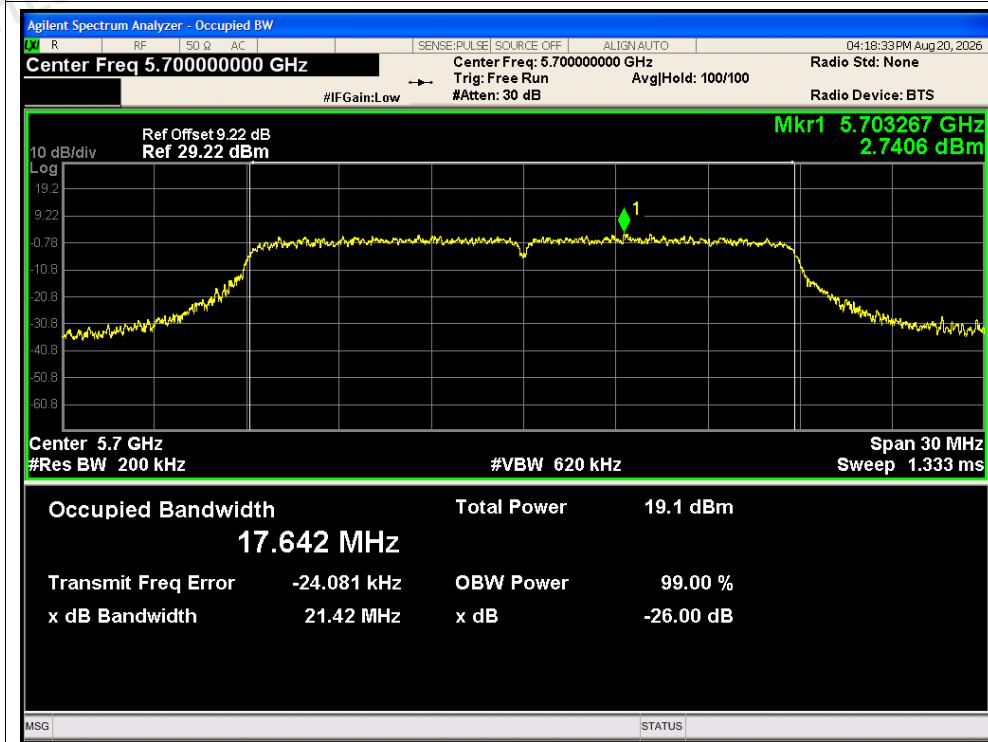
OBW NVNT n20 5500MHz



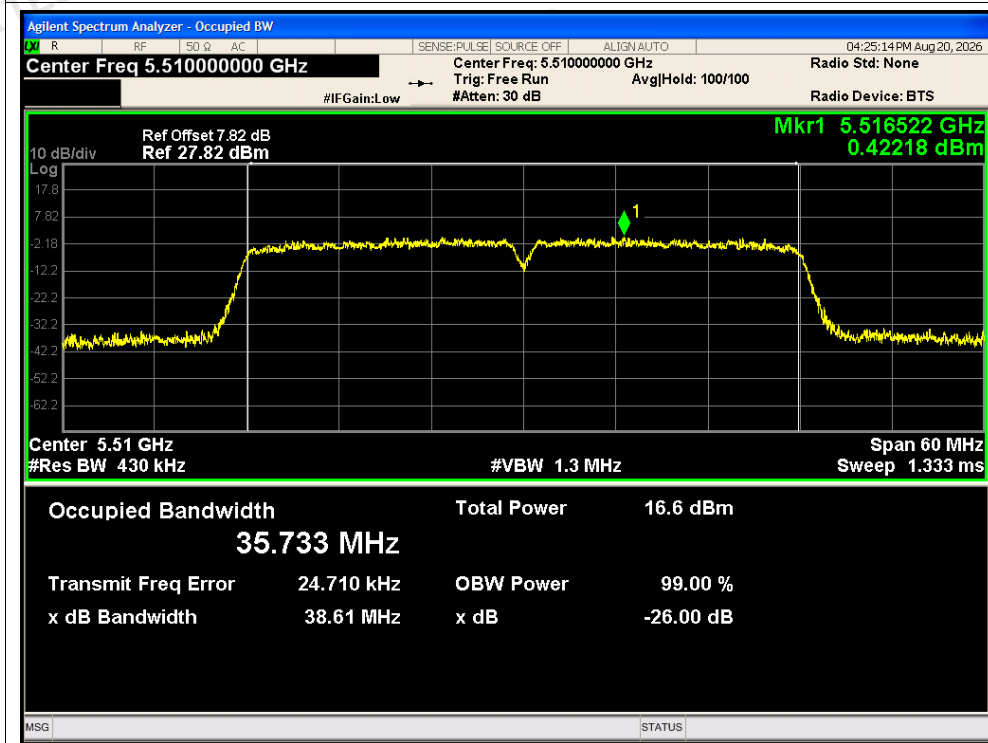
OBW NVNT n20 5600MHz



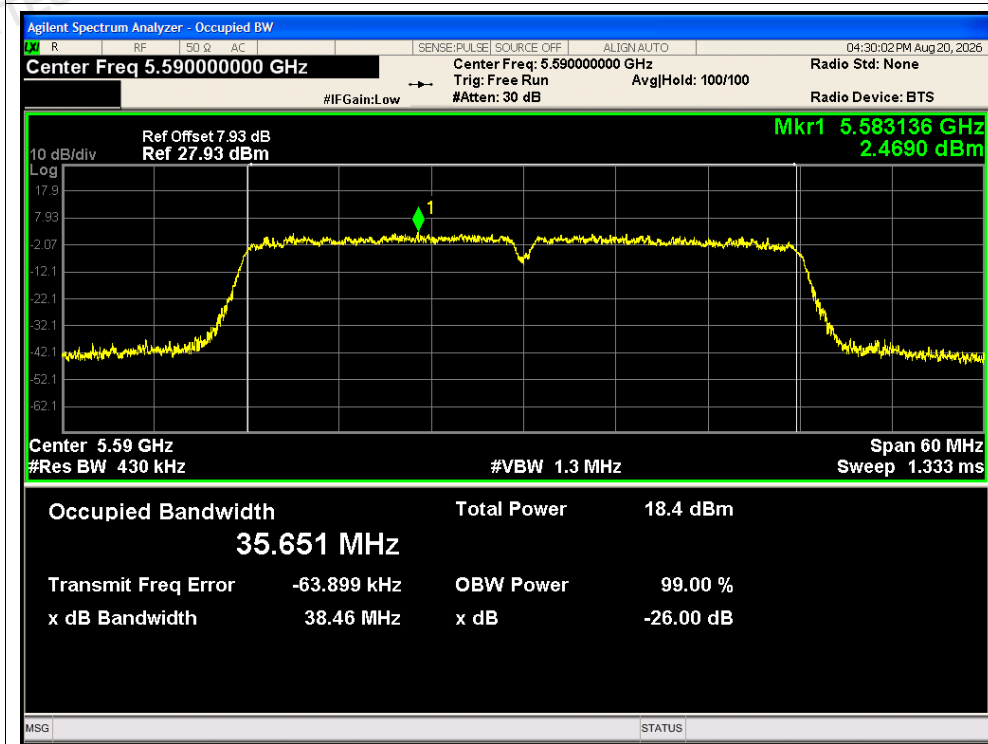
OBW NVNT n20 5700MHz



OBW NVNT n40 5510MHz

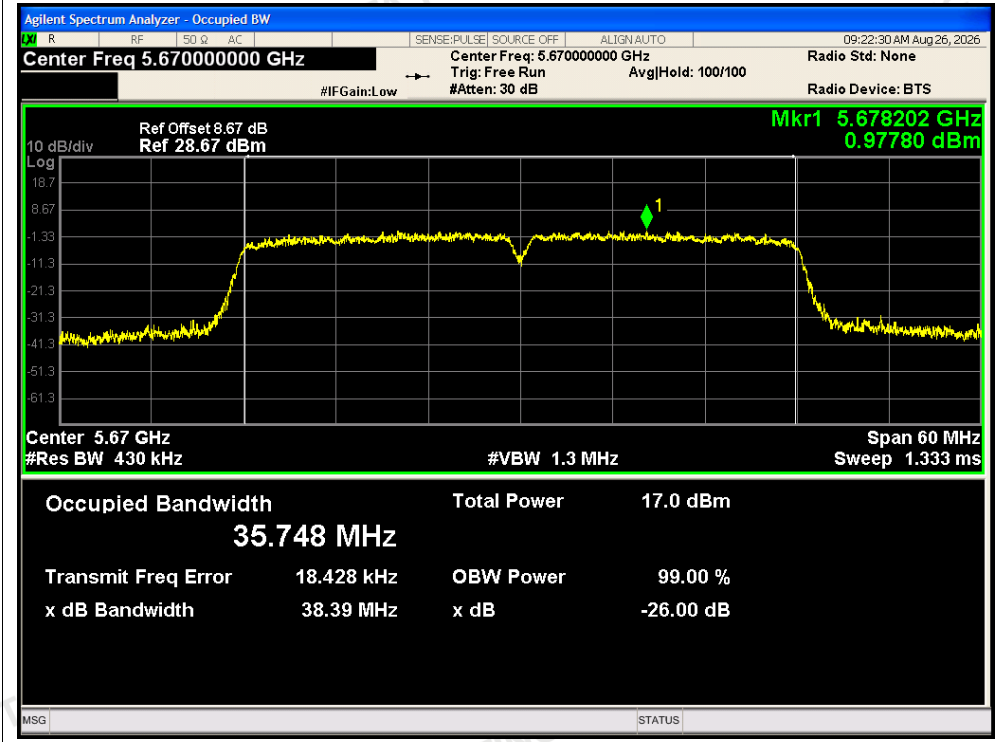


OBW NVNT n40 5590MHz



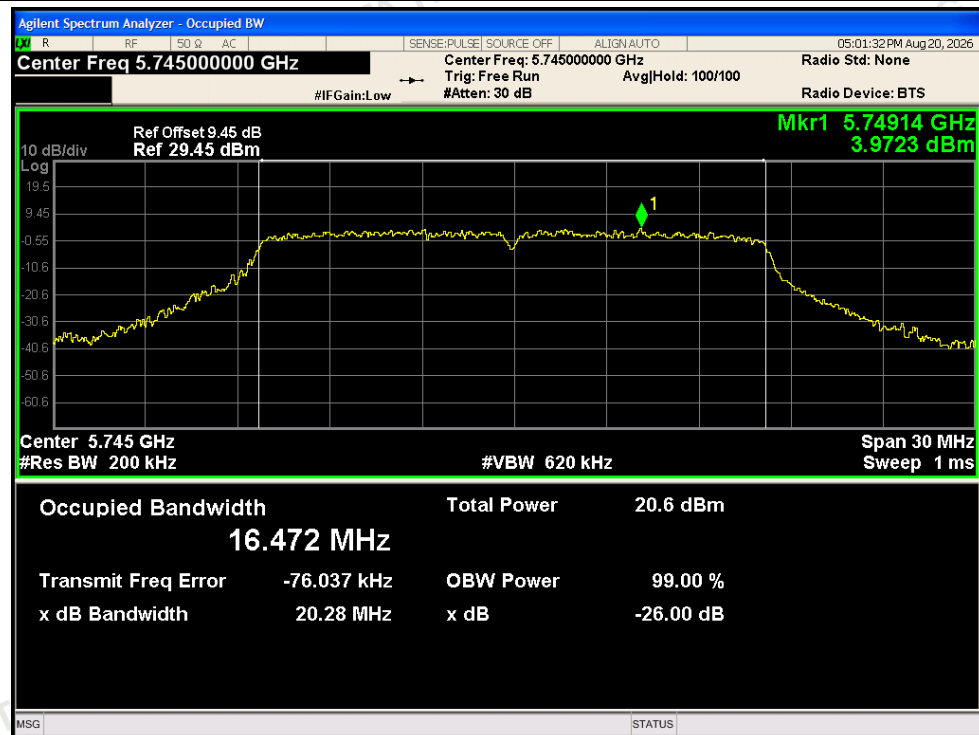
Test Graphs

OBW NVNT n40 5670MHz

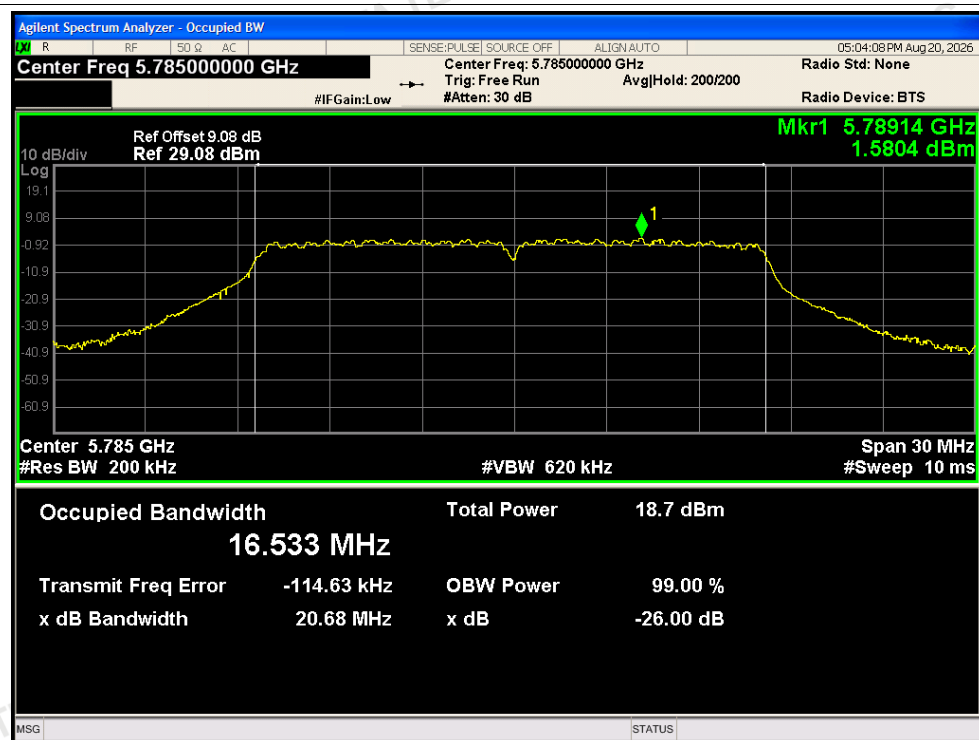


Test Graphs

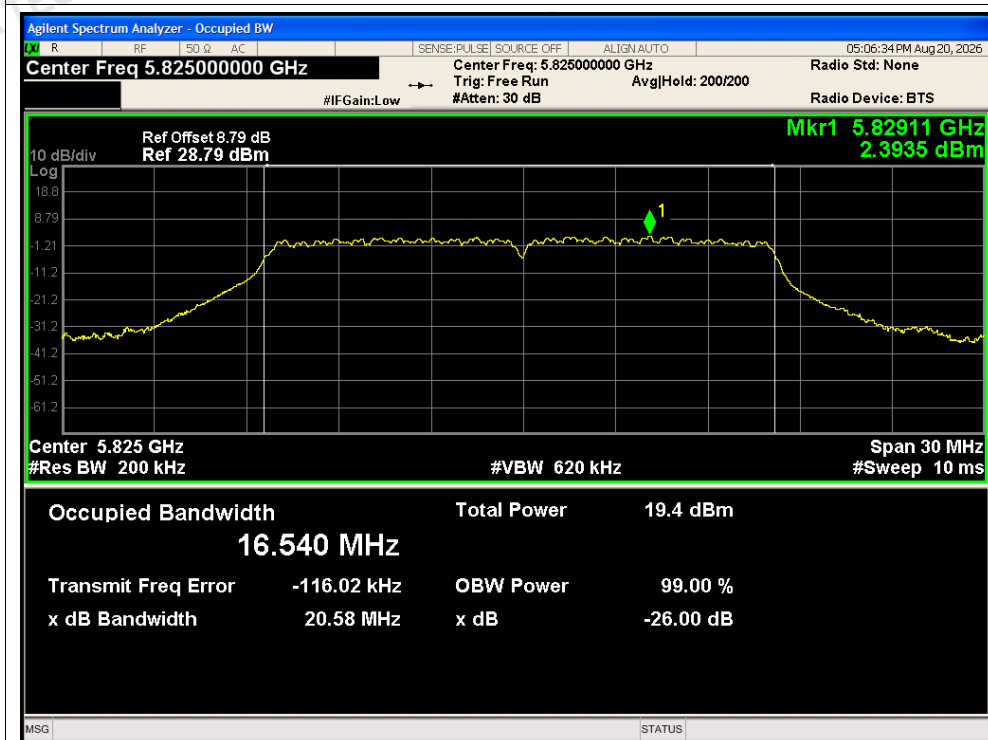
OBW NVNT a 5745MHz



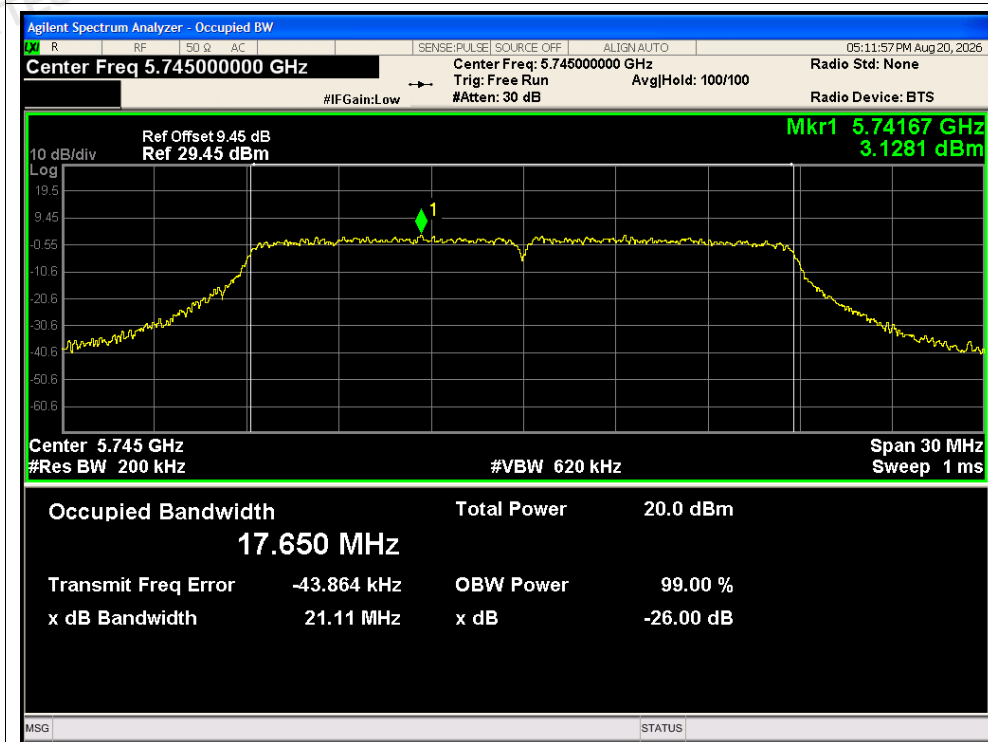
OBW NVNT a 5785MHz



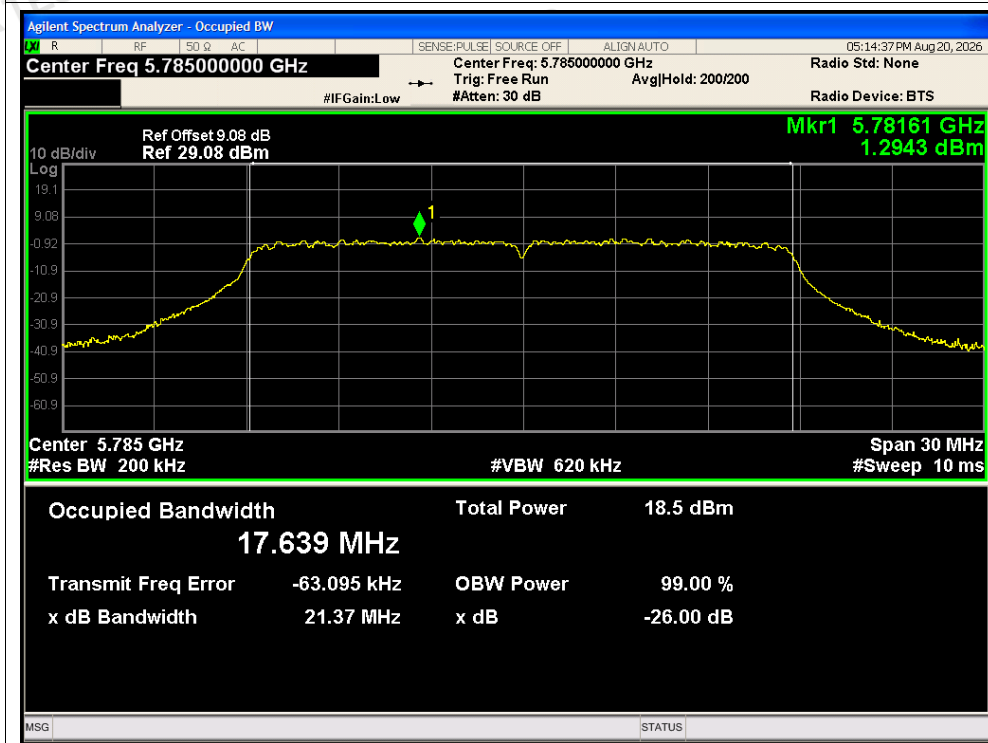
OBW NVNT a 5825MHz



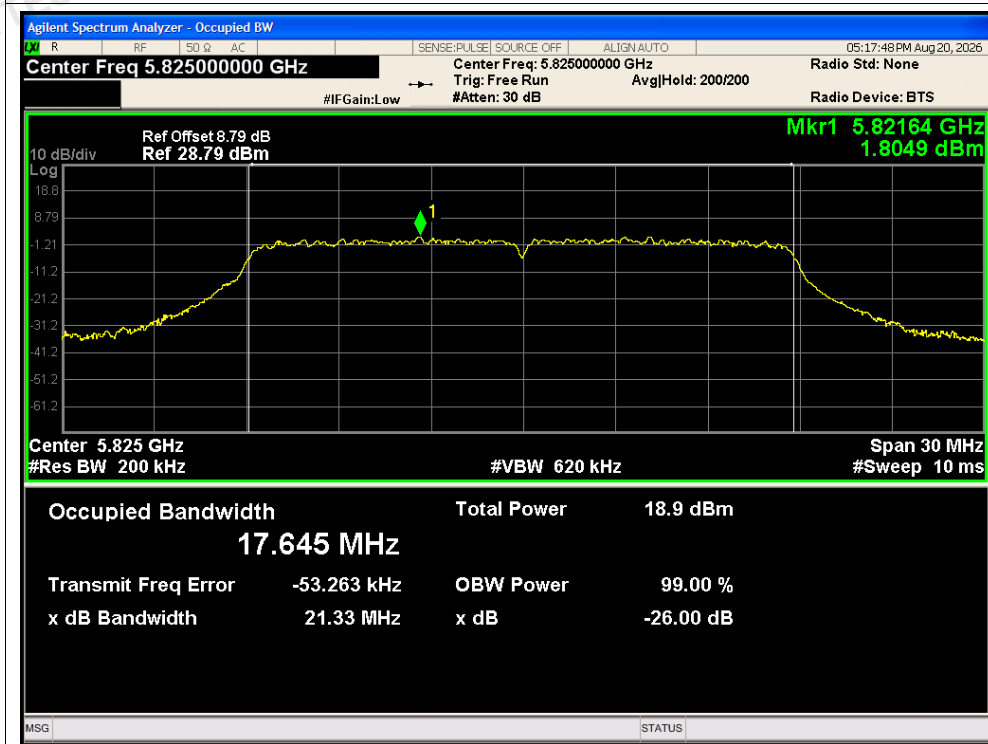
OBW NVNT n20 5745MHz



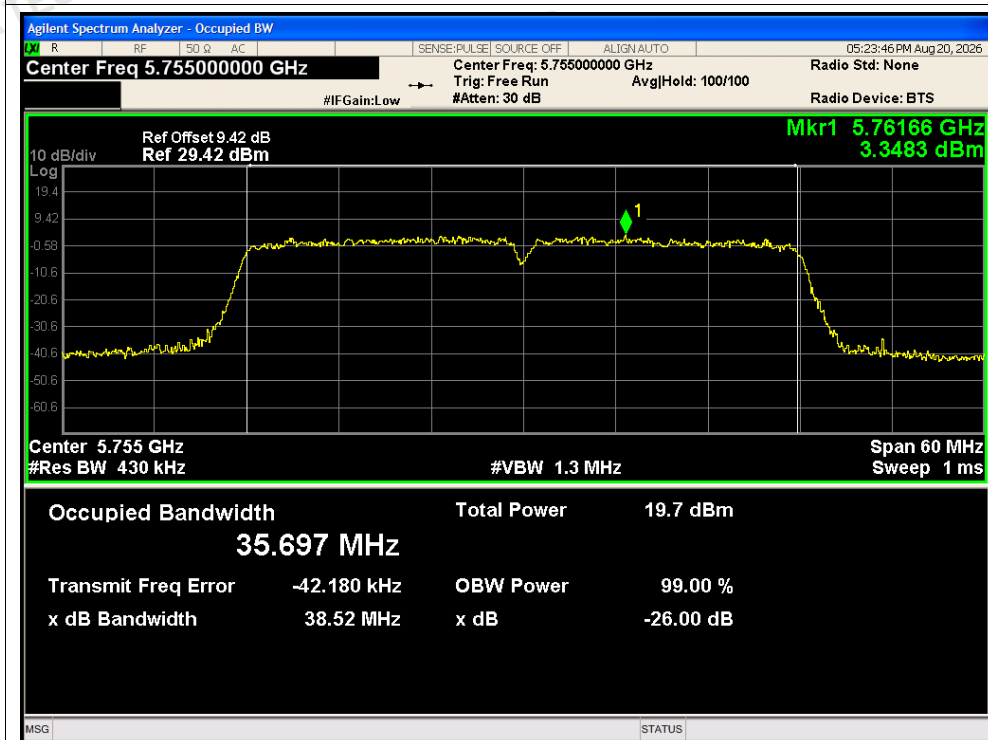
OBW NVNT n20 5785MHz



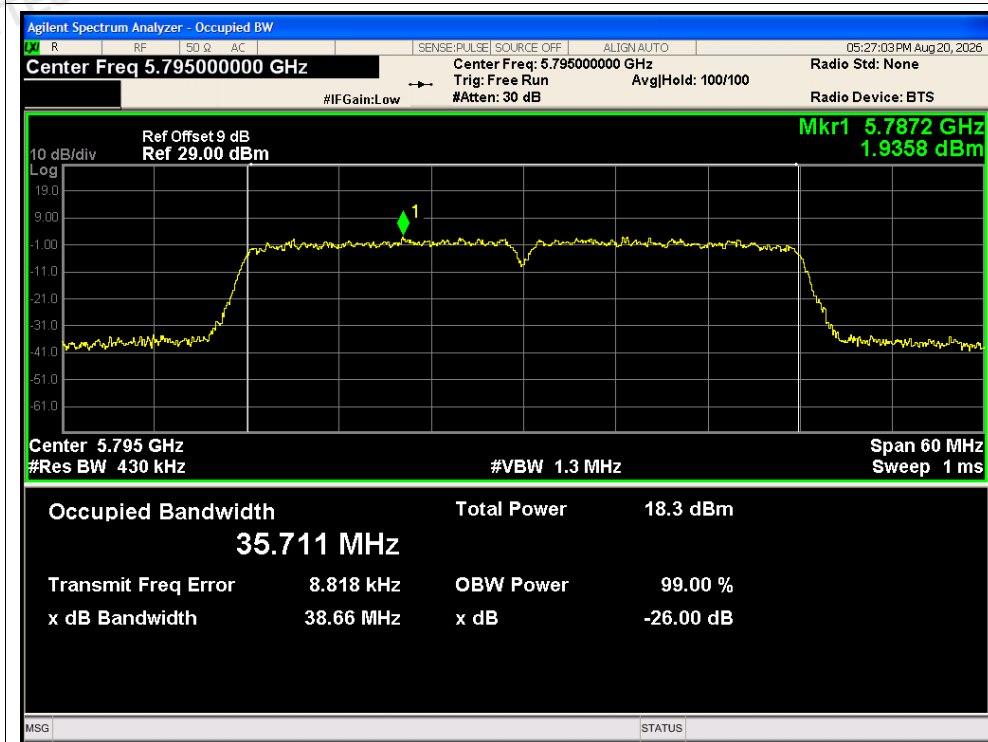
OBW NVNT n20 5825MHz



OBW NVNT n40 5755MHz



OBW NVNT n40 5795MHz



Maximum Power Spectral Density Level

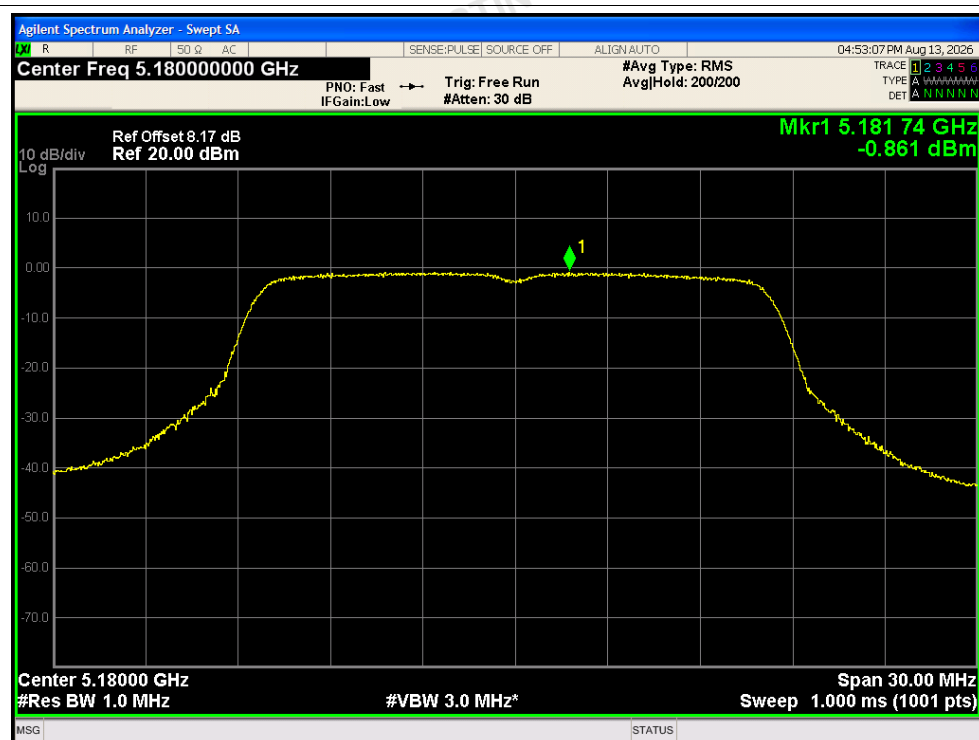
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-0.86	11	Pass
NVNT	a	5200	-0.66	11	Pass
NVNT	a	5240	2.84	11	Pass
NVNT	n20	5180	-0.14	11	Pass
NVNT	n20	5200	0.02	11	Pass
NVNT	n20	5240	4.17	11	Pass
NVNT	n40	5190	-3.36	11	Pass
NVNT	n40	5230	-1.25	11	Pass
NVNT	a	5260	1.93	11	Pass
NVNT	a	5280	2.61	11	Pass
NVNT	a	5320	0.86	11	Pass
NVNT	n20	5260	1.31	11	Pass
NVNT	n20	5280	2.25	11	Pass
NVNT	n20	5320	0.52	11	Pass
NVNT	n40	5270	-0.52	11	Pass
NVNT	n40	5310	-1.83	11	Pass
NVNT	a	5500	1.19	11	Pass
NVNT	a	5600	1.68	11	Pass
NVNT	a	5700	2.95	11	Pass
NVNT	n20	5500	0.74	11	Pass
NVNT	n20	5600	1.77	11	Pass
NVNT	n20	5700	3.20	11	Pass
NVNT	n40	5510	-2.07	11	Pass
NVNT	n40	5590	-0.92	11	Pass
NVNT	n40	5670	-1.26	11	Pass

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510kHz)	Conducted PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
NVNT	a	5745	0.76	0.67	30	Pass
NVNT	a	5785	-1.18	-1.27	30	Pass
NVNT	a	5825	-1.17	-1.26	30	Pass
NVNT	n20	5745	0.12	0.03	30	Pass
NVNT	n20	5785	-1.87	-1.96	30	Pass
NVNT	n20	5825	-1.47	-1.56	30	Pass
NVNT	n40	5755	-2.87	-2.96	30	Pass
NVNT	n40	5795	-5.10	-5.19	30	Pass

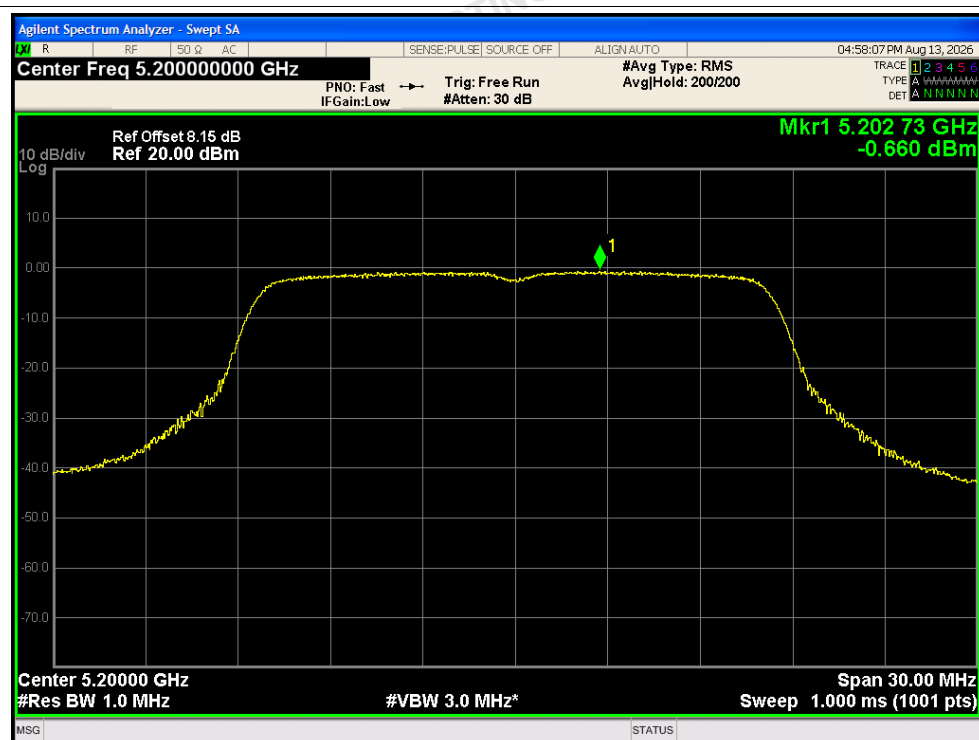
Note: Conducted PSD (dBm/500kHz) = Conducted PSD (dBm/510kHz) +10log(500kHz/510kHz)

Test Graphs

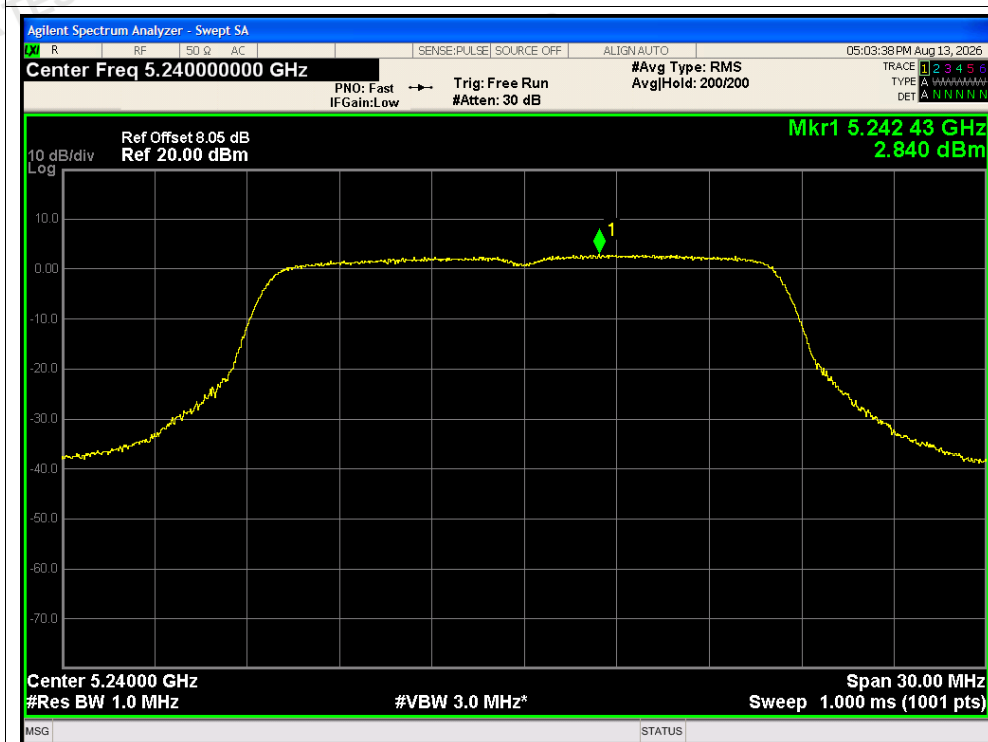
PSD NVNT a 5180MHz



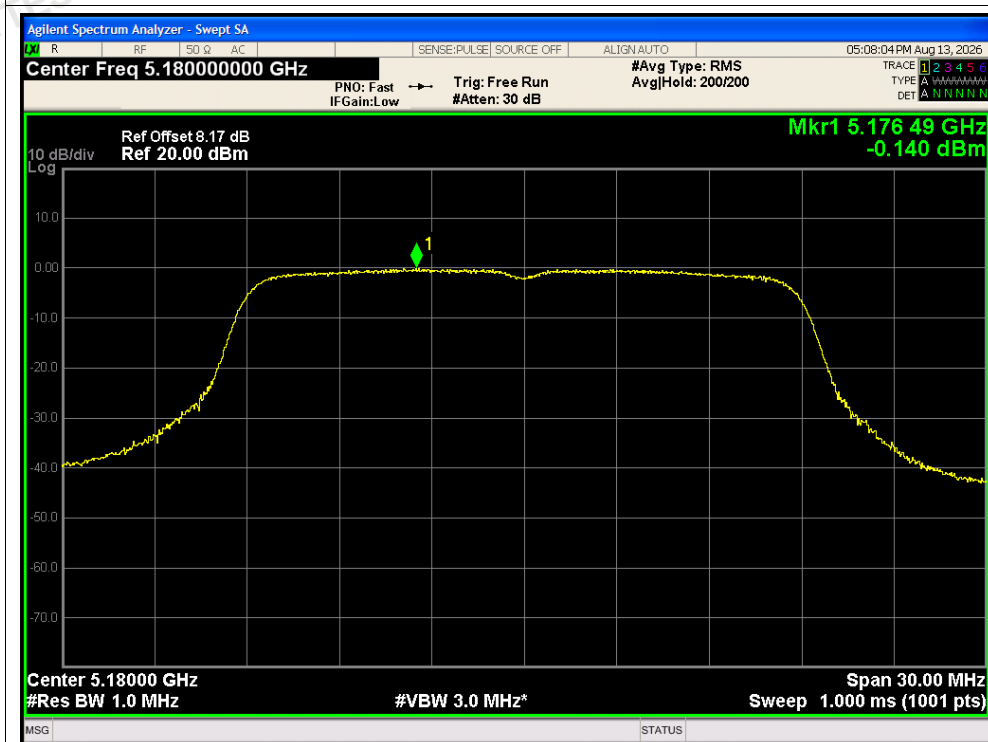
PSD NVNT a 5200MHz



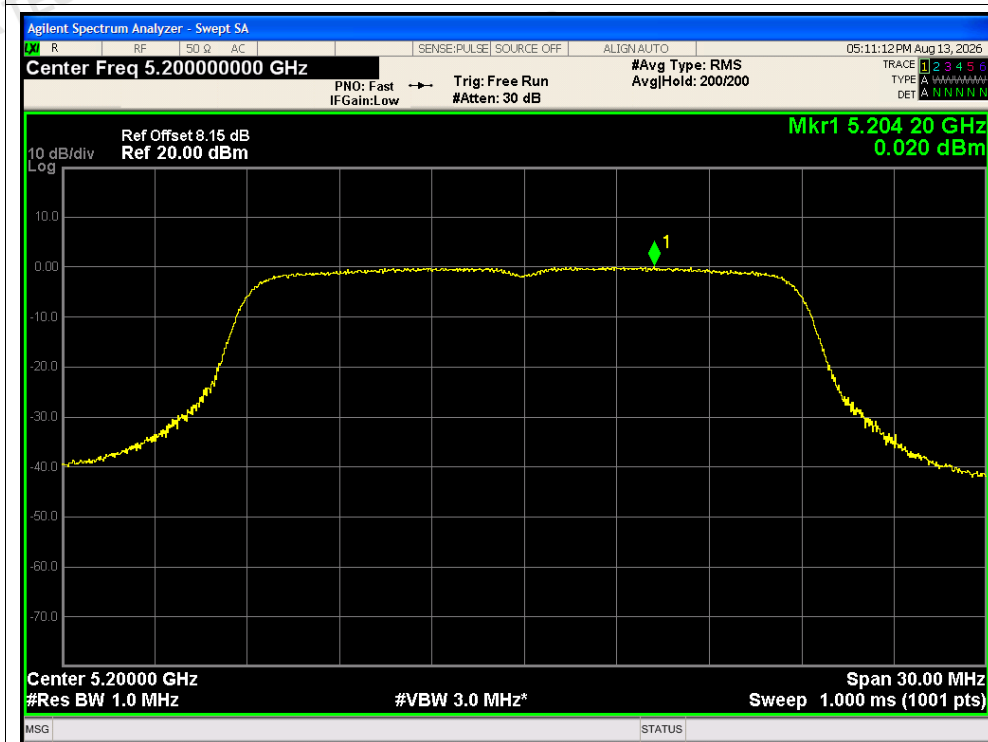
PSD NVNT a 5240MHz



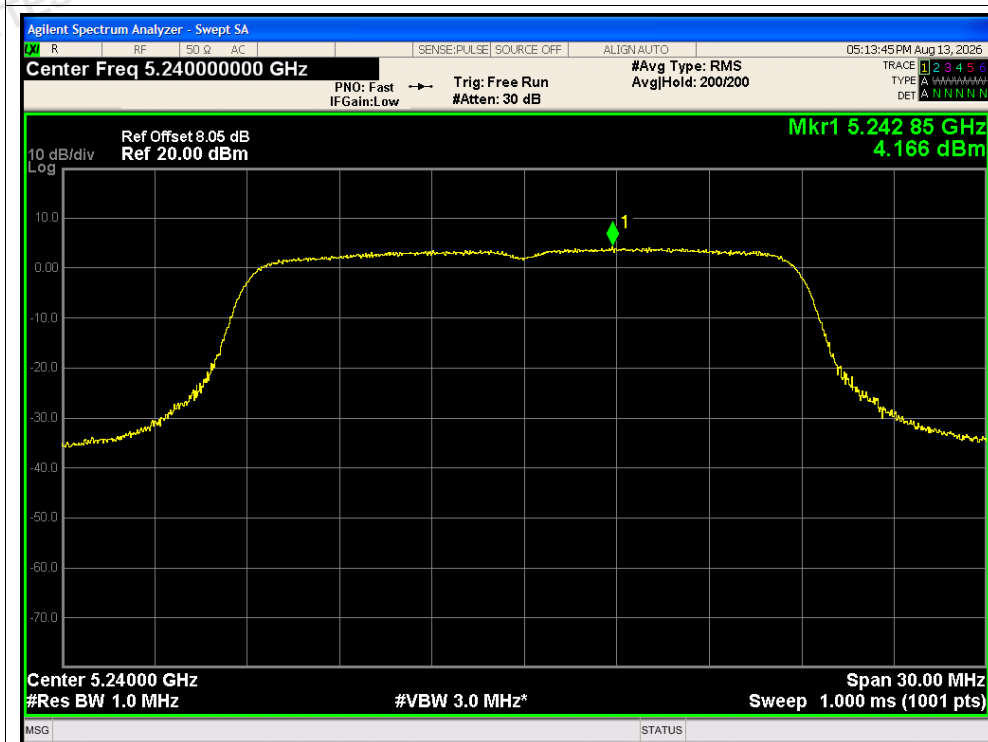
PSD NVNT n20 5180MHz



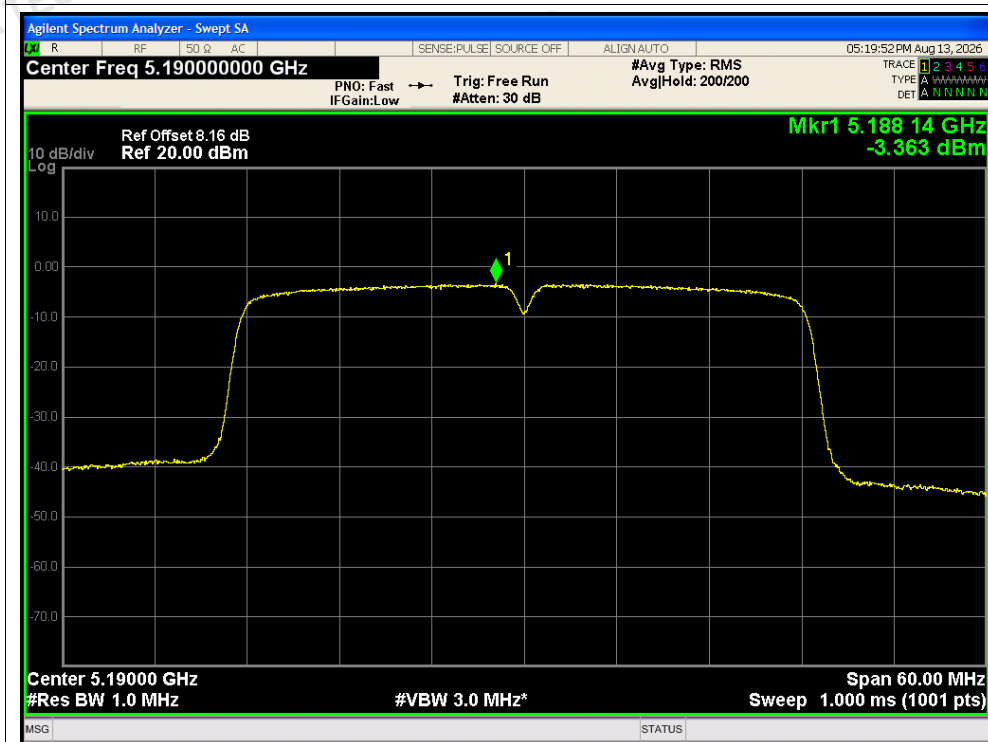
PSD NVNT n20 5200MHz



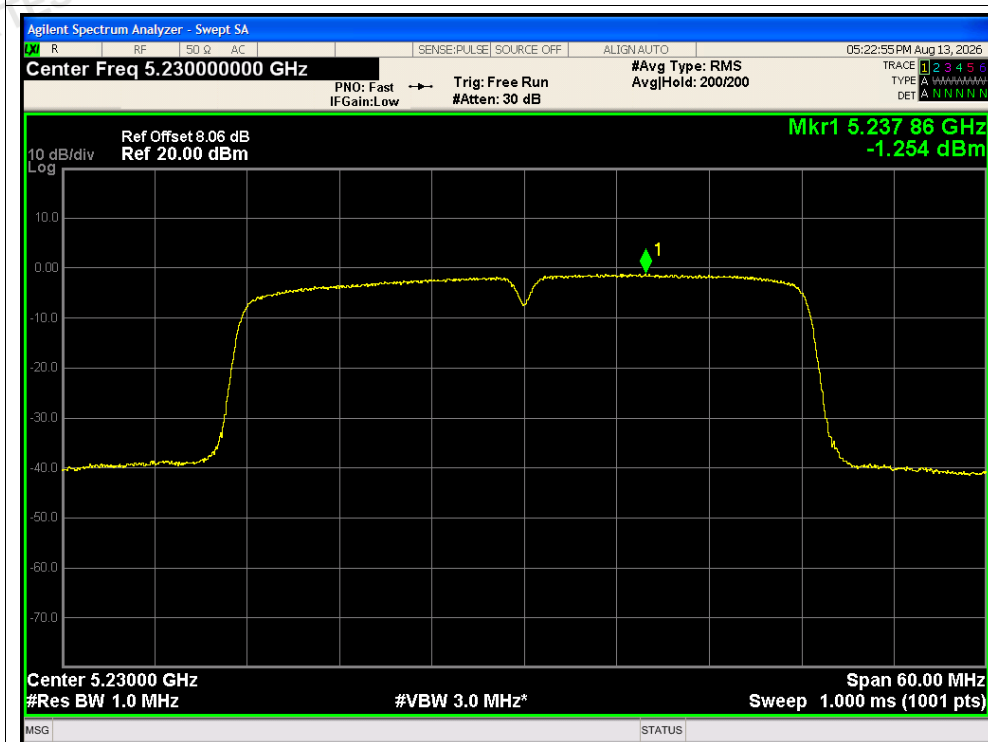
PSD NVNT n20 5240MHz



PSD NVNT n40 5190MHz

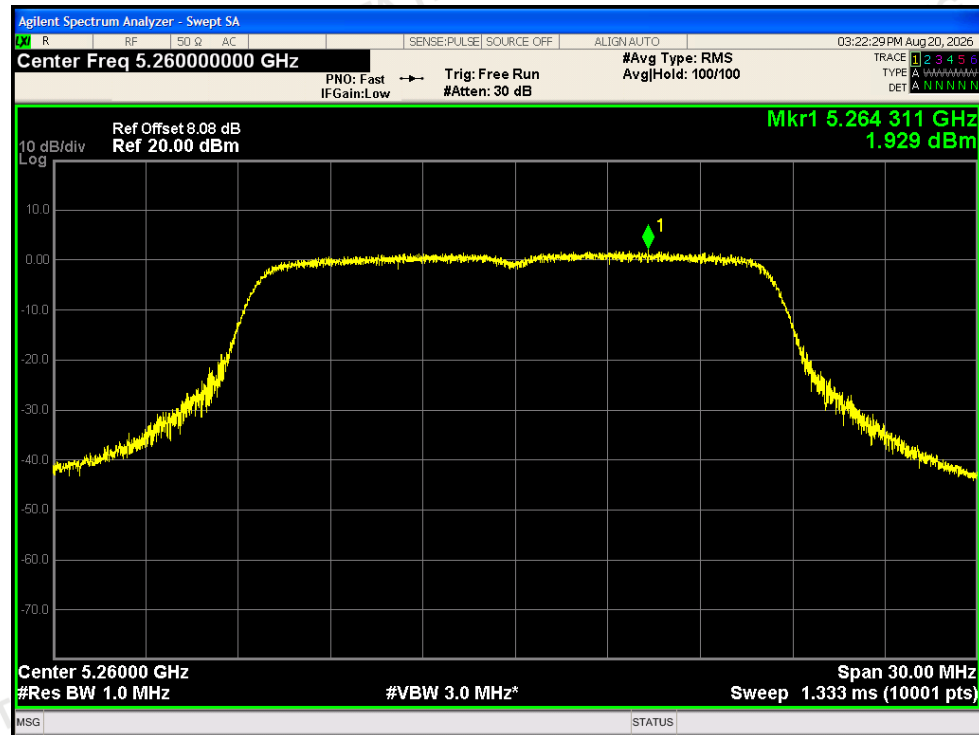


PSD NVNT n40 5230MHz

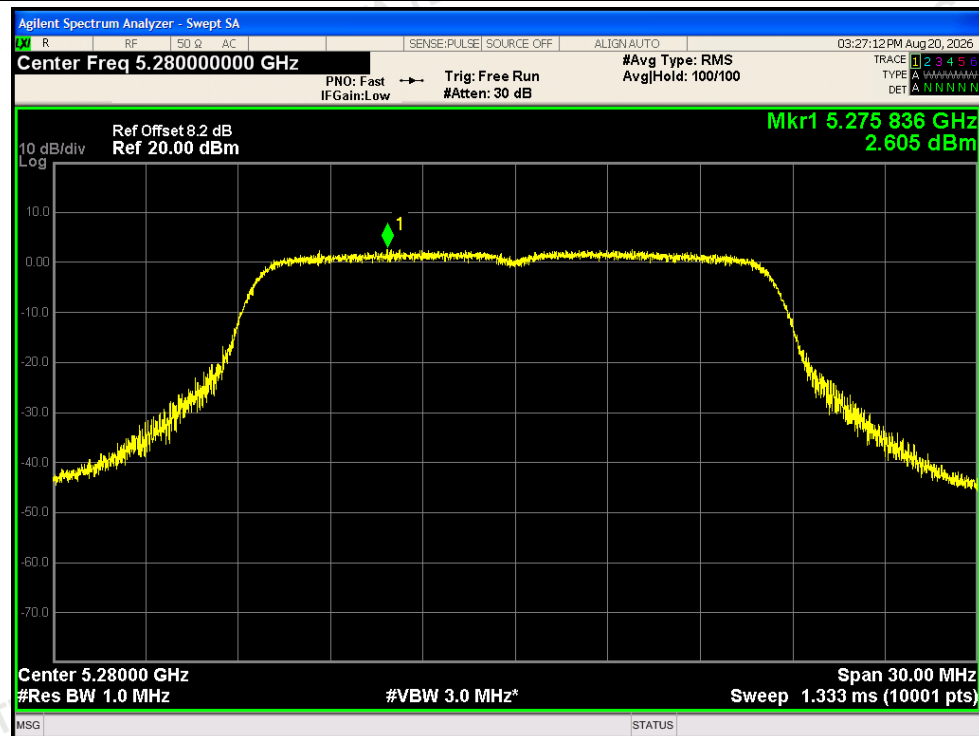


Test Graphs

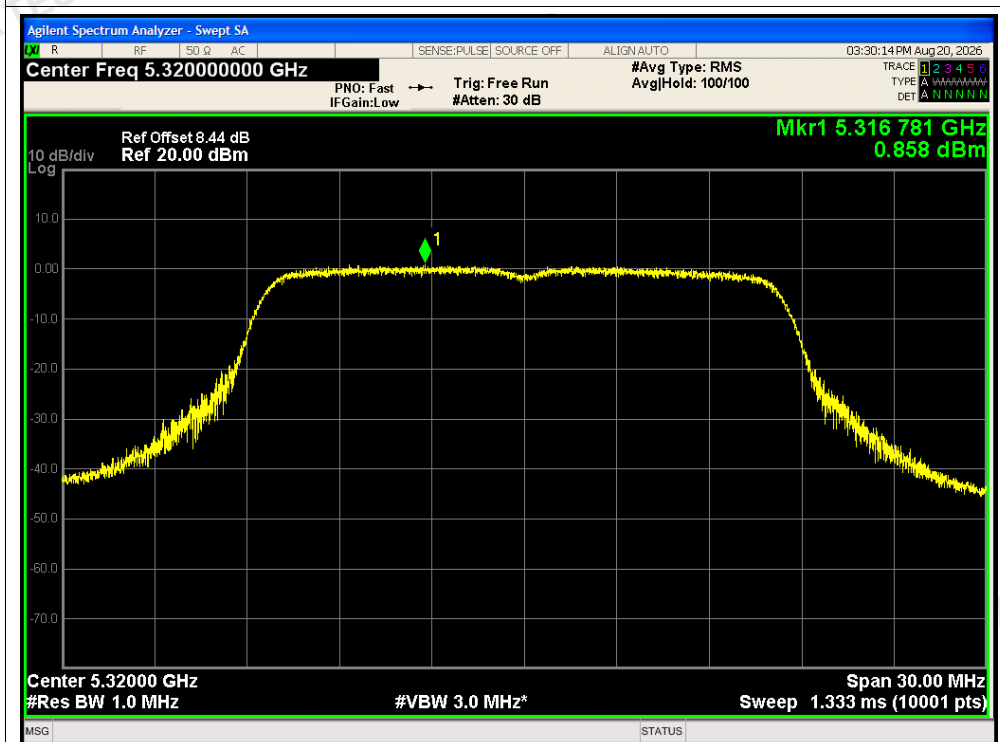
PSD NVNT a 5260MHz



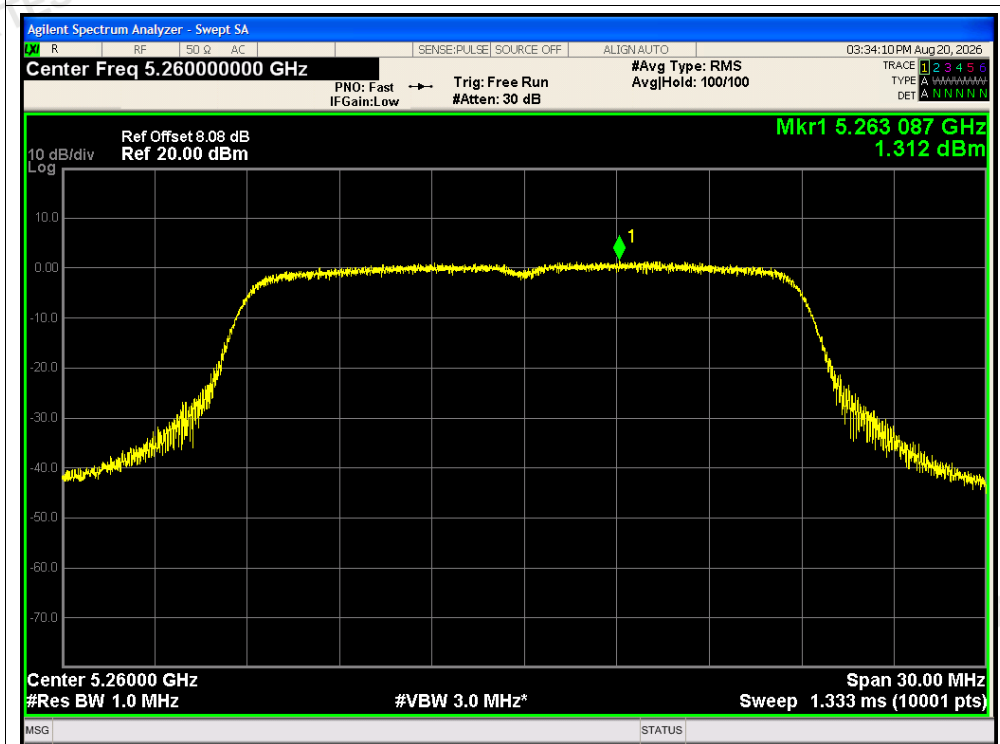
PSD NVNT a 5280MHz



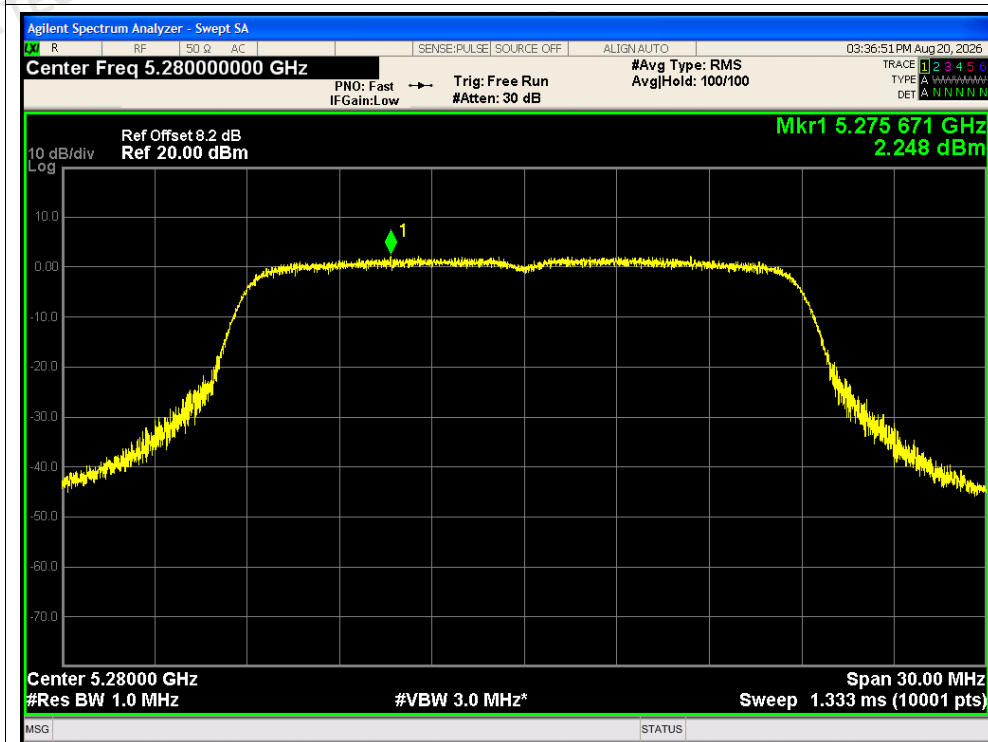
PSD NVNT a 5320MHz



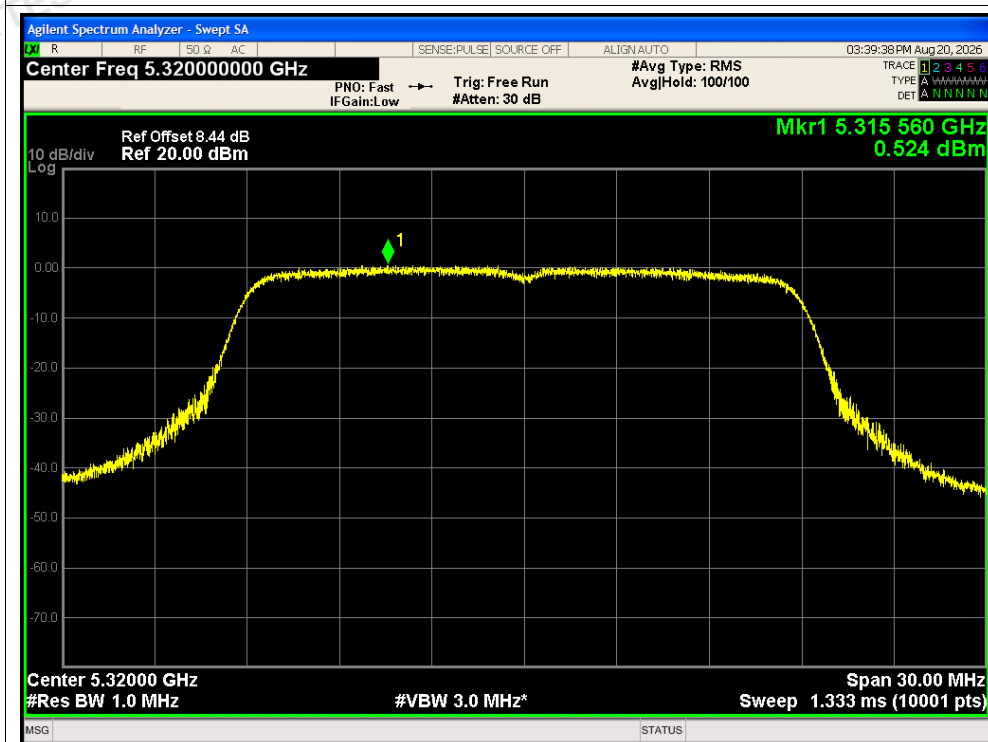
PSD NVNT n20 5260MHz



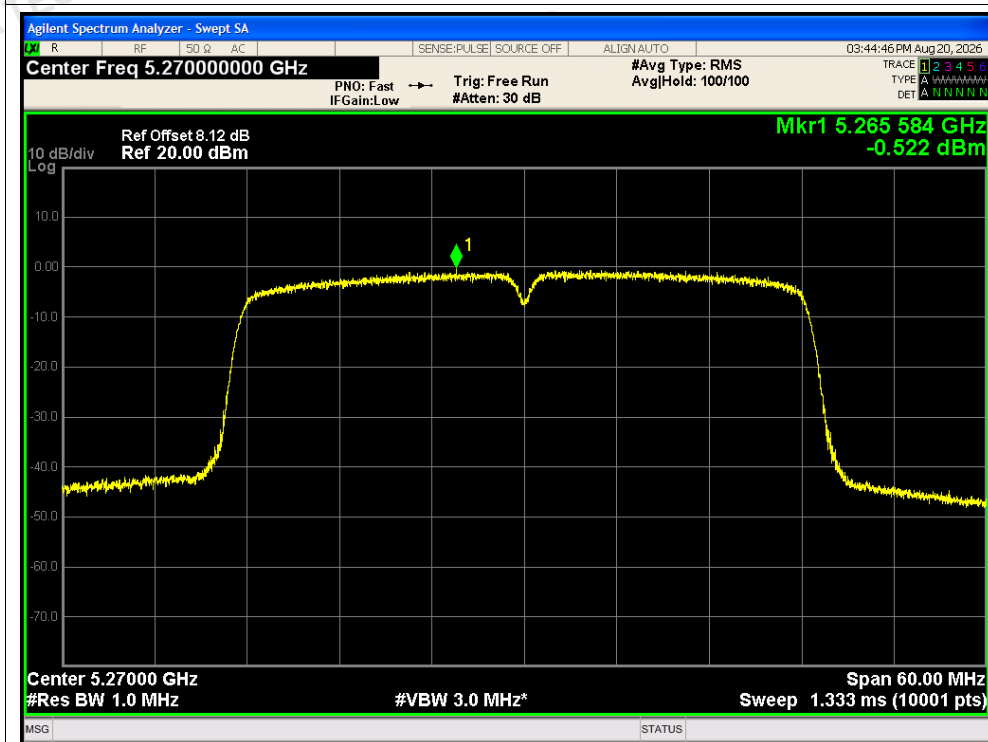
PSD NVNT n20 5280MHz



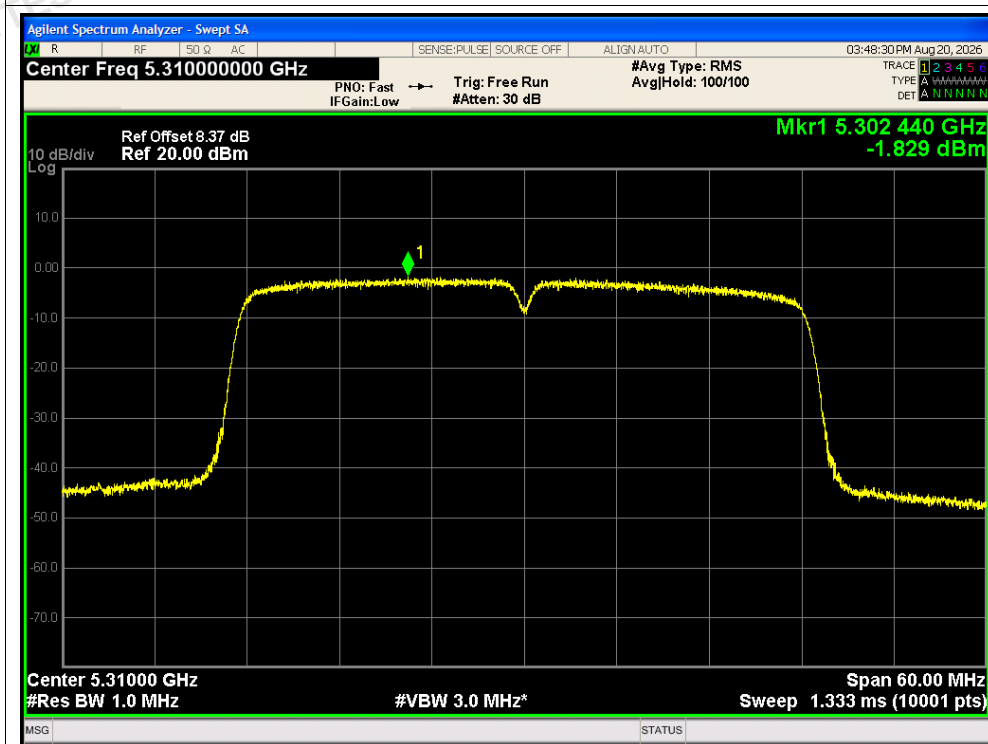
PSD NVNT n20 5320MHz



PSD NVNT n40 5270MHz

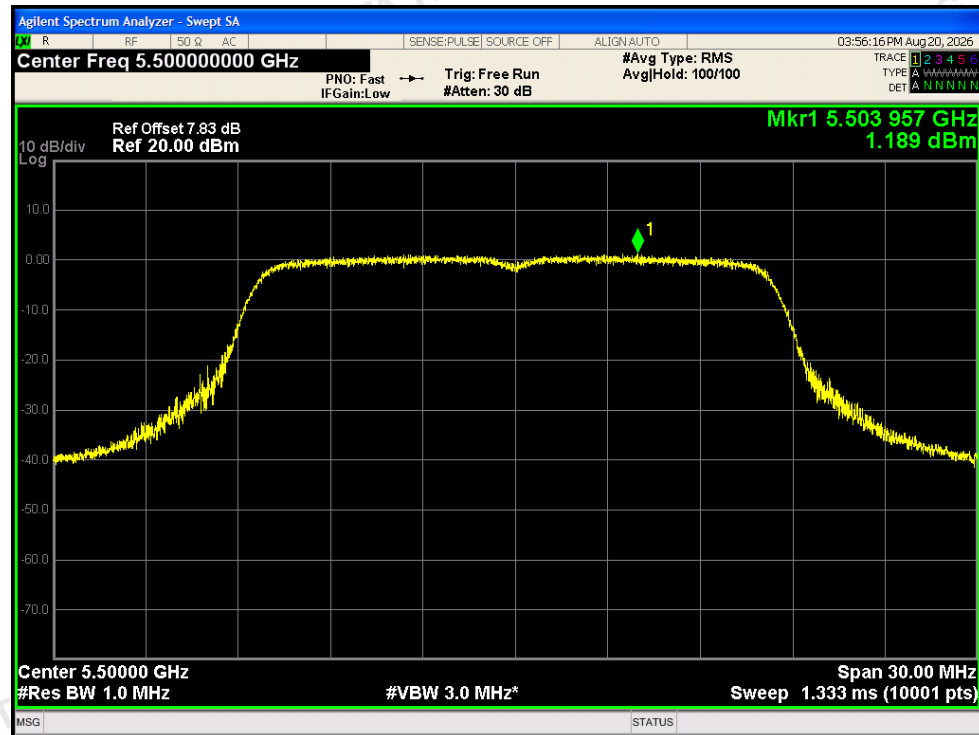


PSD NVNT n40 5310MHz

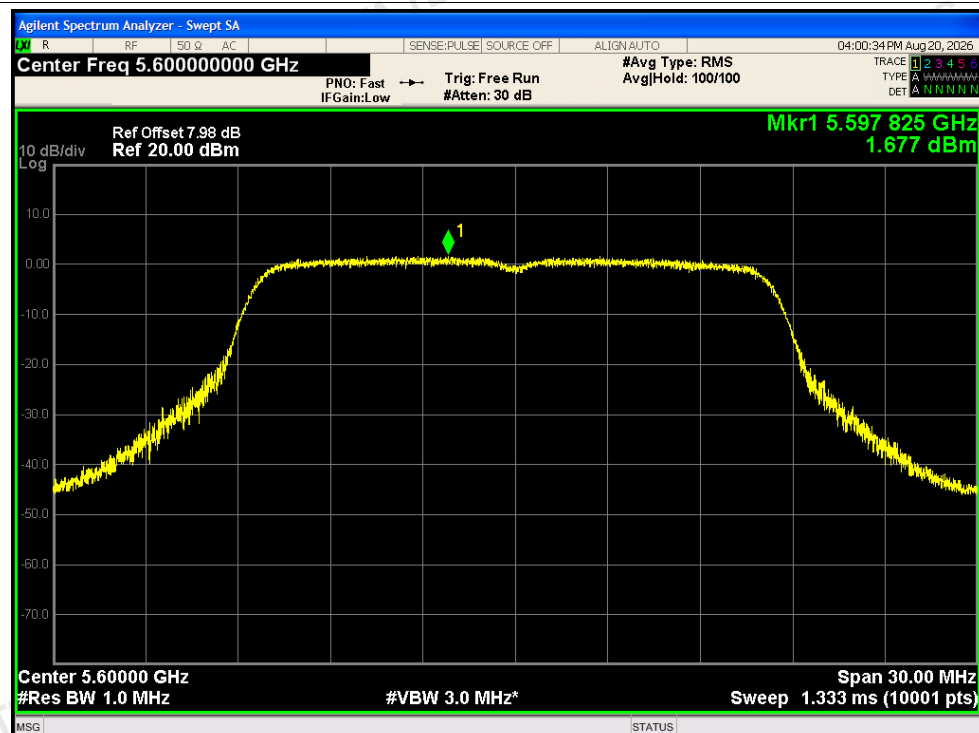


Test Graphs

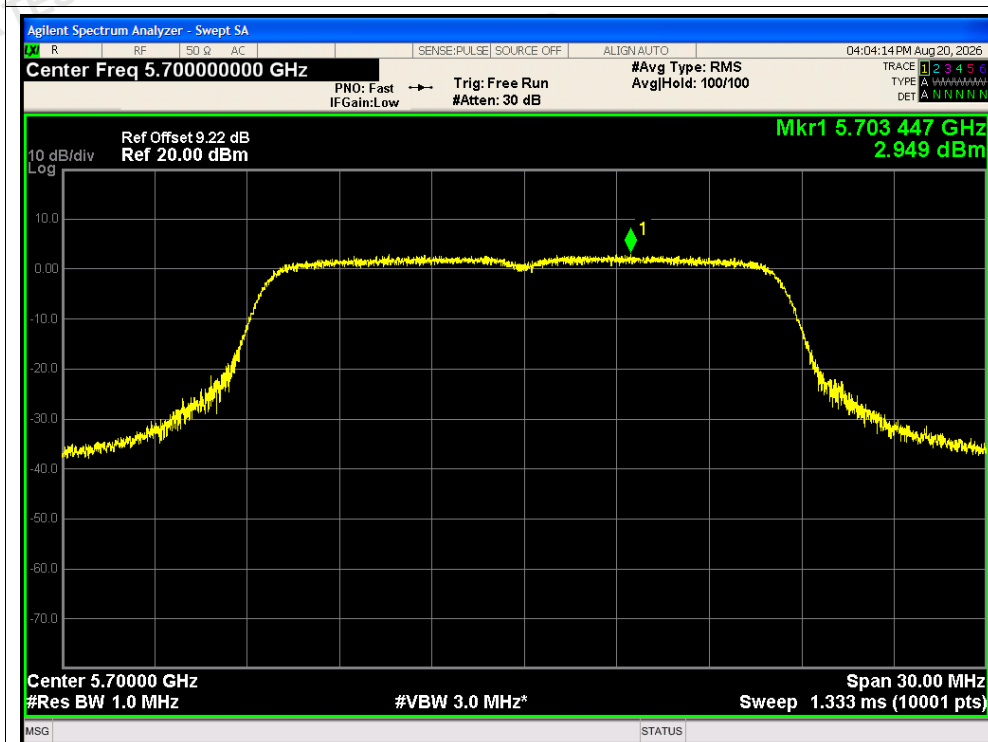
PSD NVNT a 5500MHz



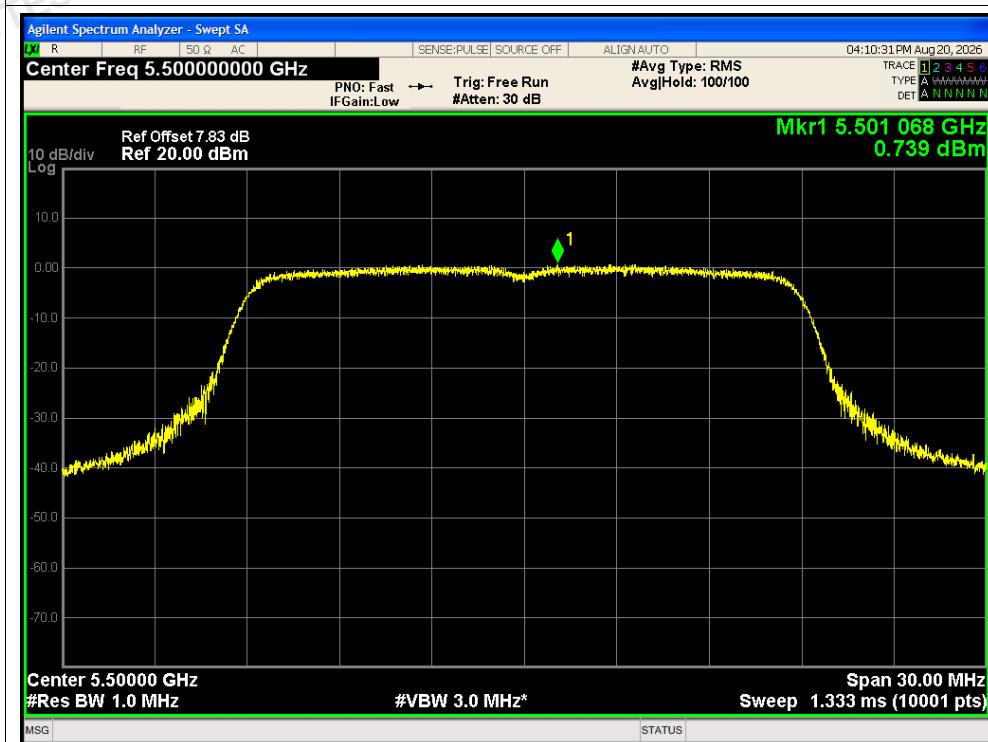
PSD NVNT a 5600MHz



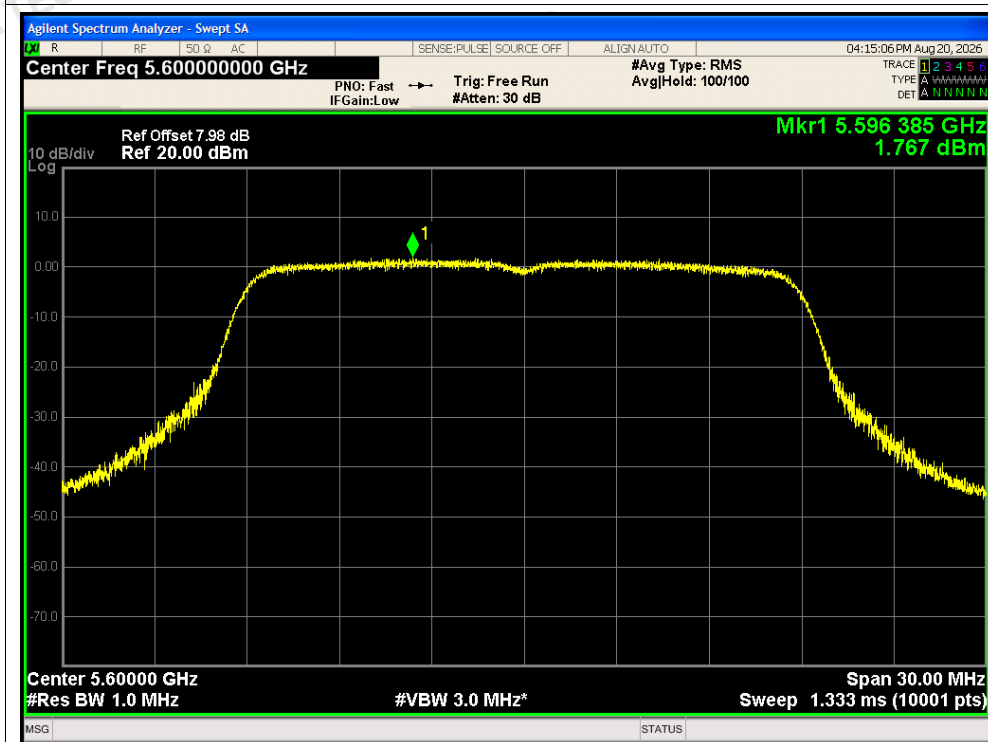
PSD NVNT a 5700MHz



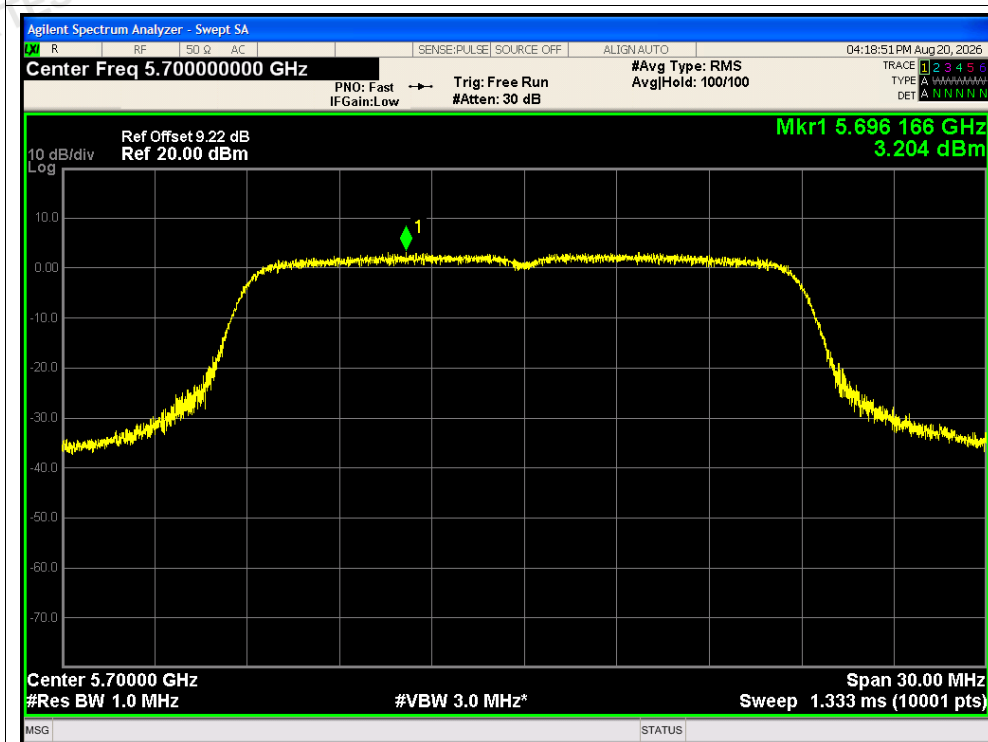
PSD NVNT n20 5500MHz



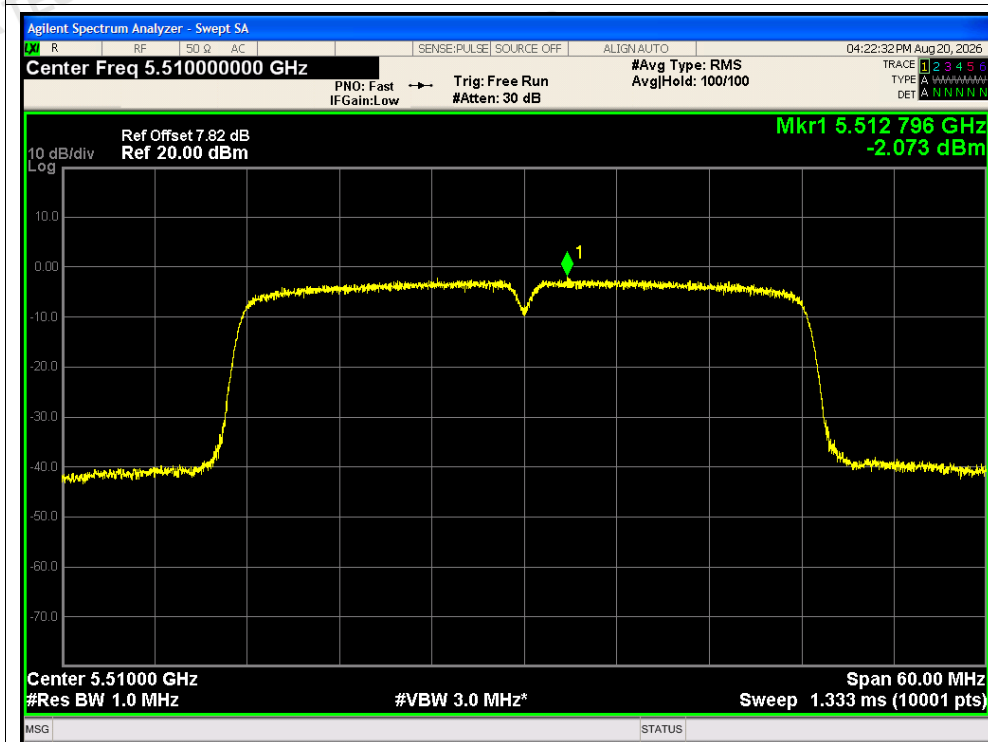
PSD NVNT n20 5600MHz



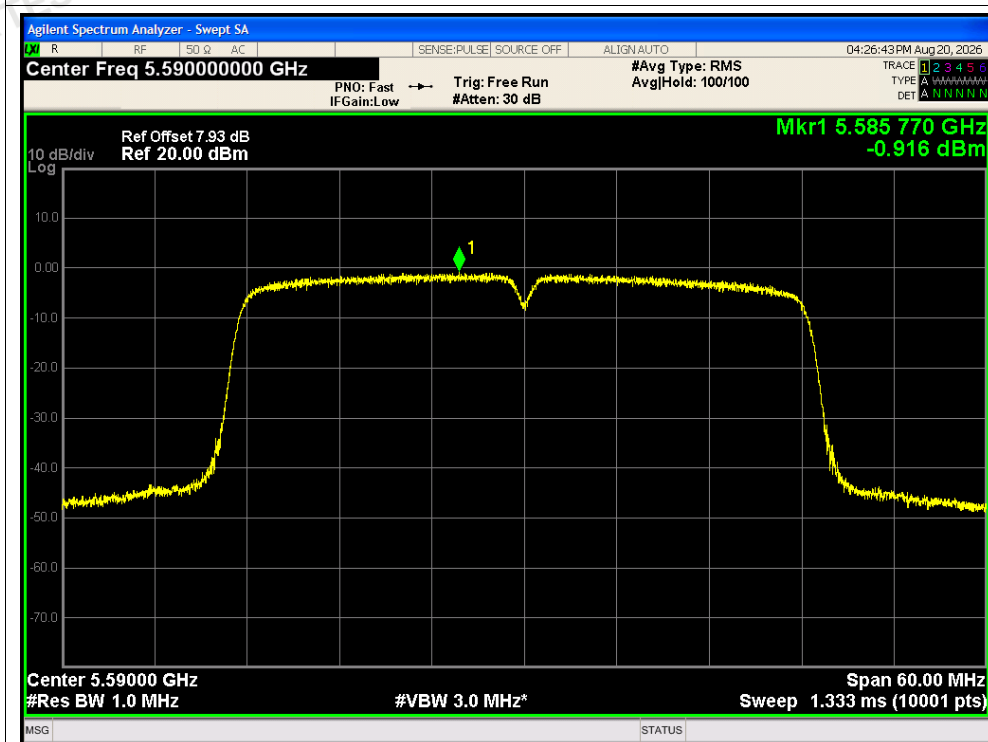
PSD NVNT n20 5700MHz

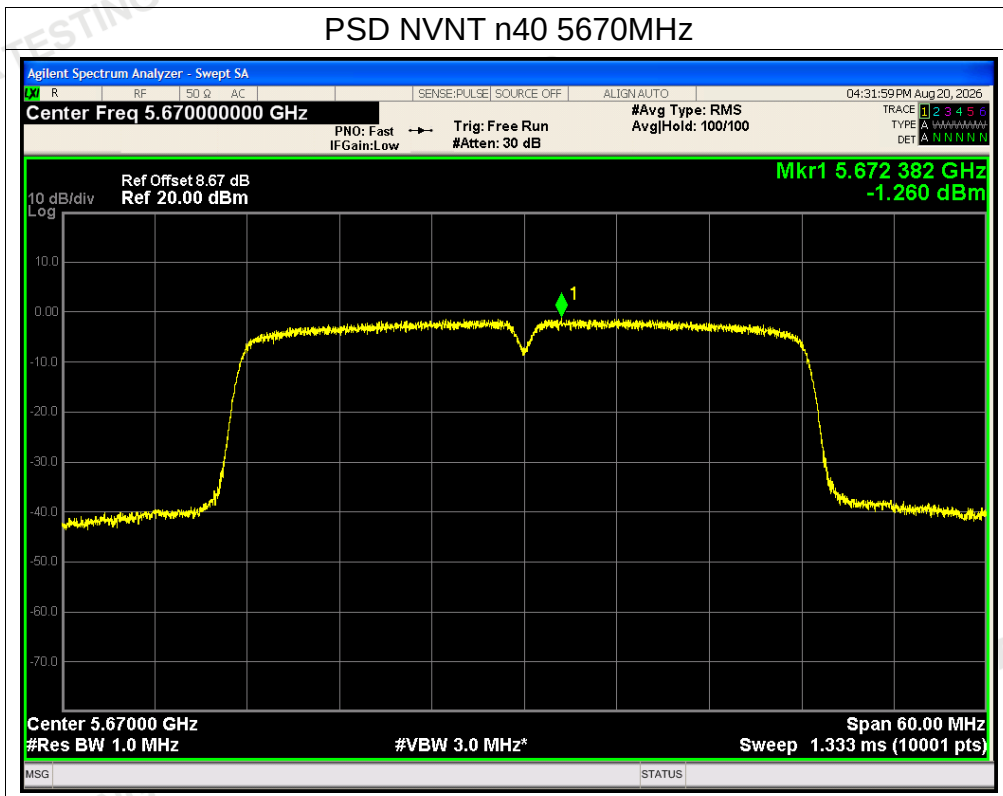


PSD NVNT n40 5510MHz



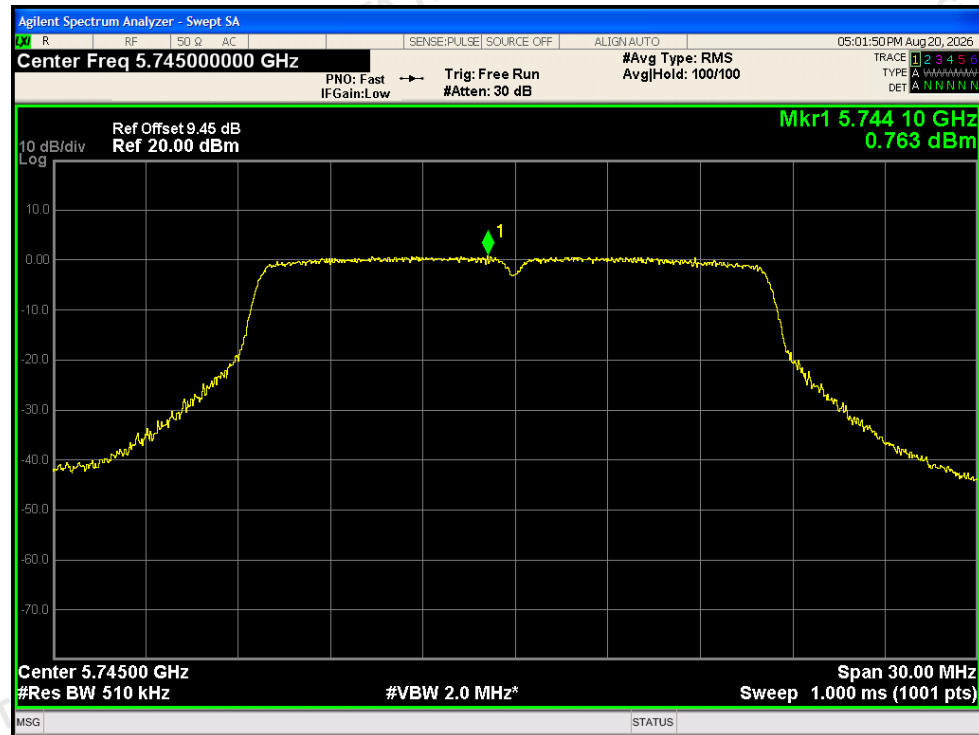
PSD NVNT n40 5590MHz





Test Graphs

PSD NVNT a 5745MHz



PSD NVNT a 5785MHz

