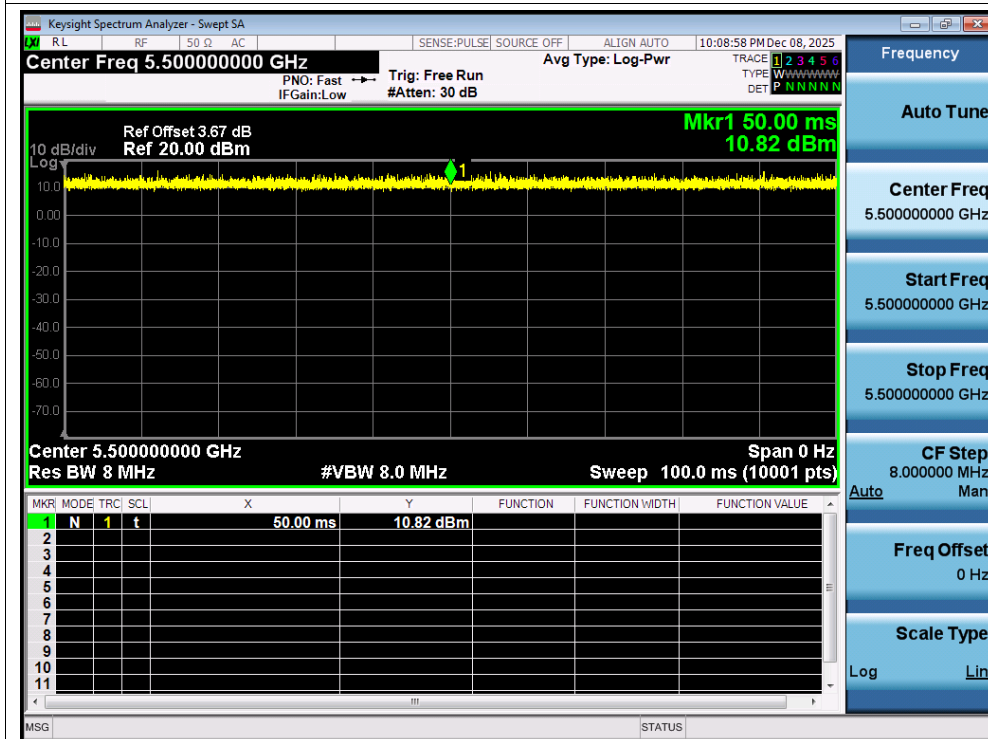
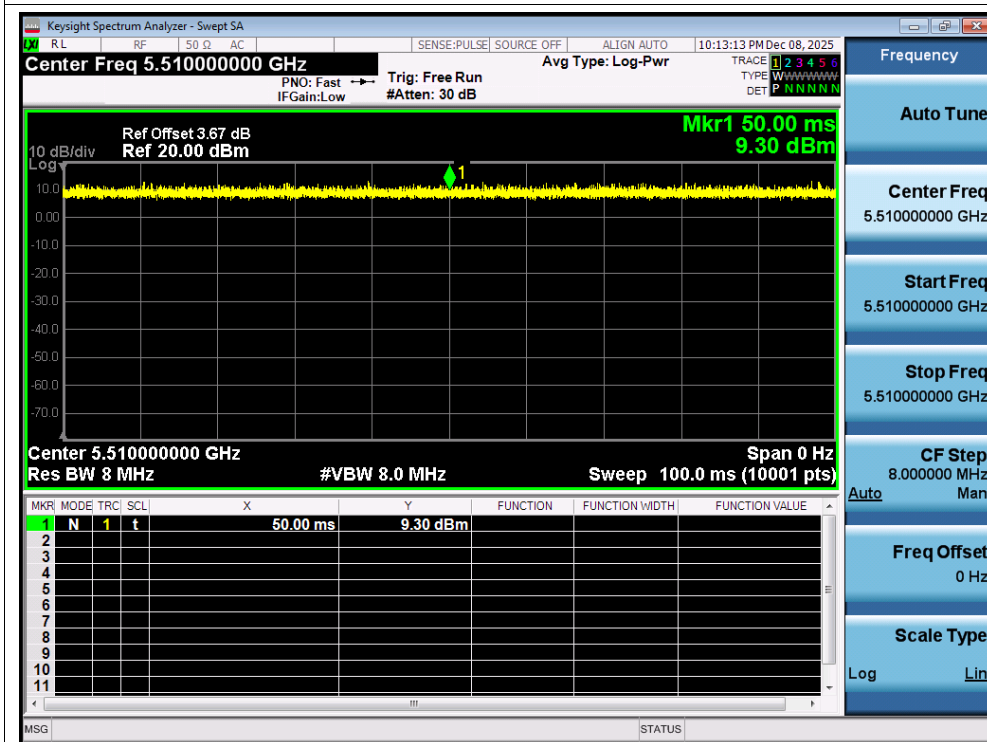


Duty Cycle

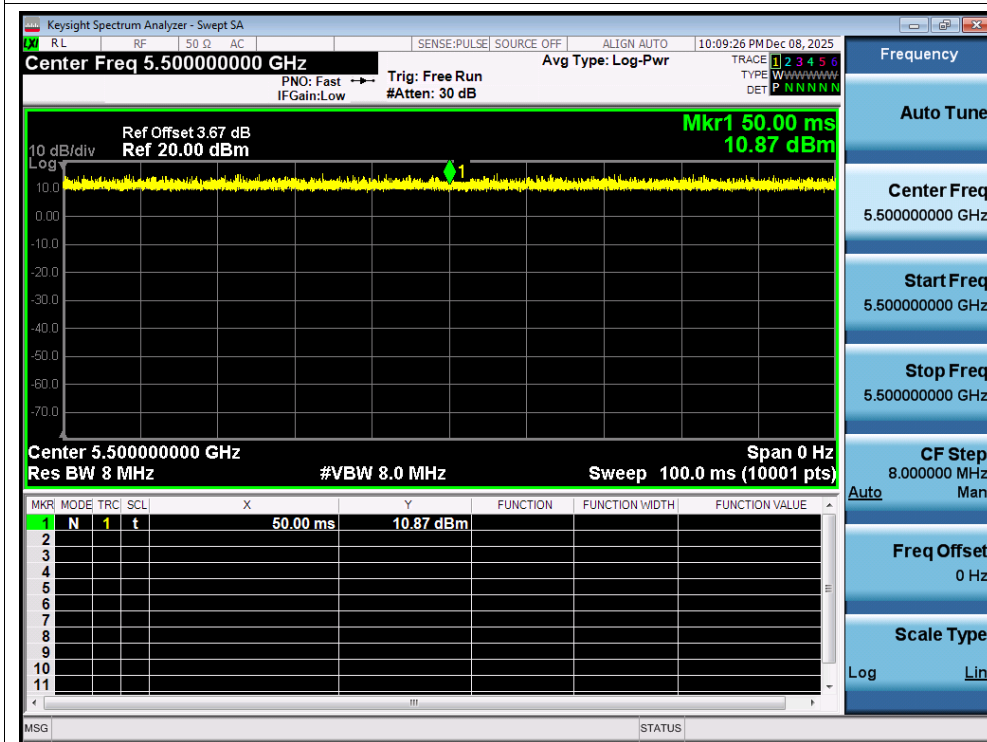
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5500	Ant A	100	0
NVNT	n20	5500	Ant A	100	0
NVNT	n40	5510	Ant A	100	0
NVNT	ac20	5500	Ant A	100	0
NVNT	ac40	5510	Ant A	100	0
NVNT	ac80	5530	Ant A	100	0
NVNT	ax20	5500	Ant A	100	0
NVNT	ax40	5510	Ant A	100	0
NVNT	ax80	5530	Ant A	100	0



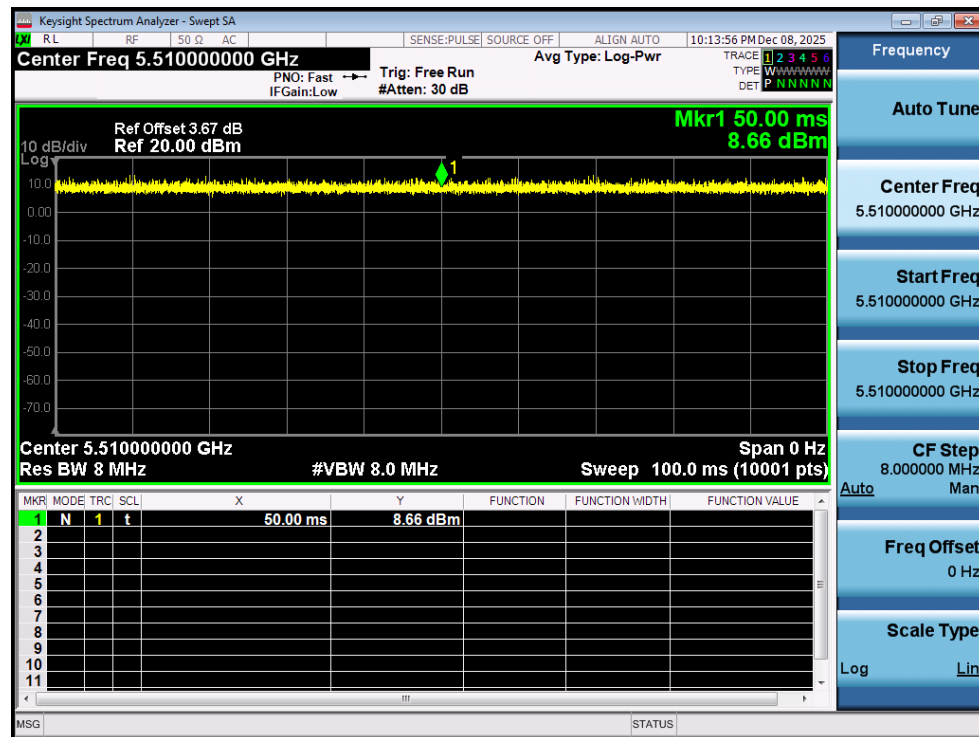
Duty Cycle NVNT n40 5510MHz Ant A



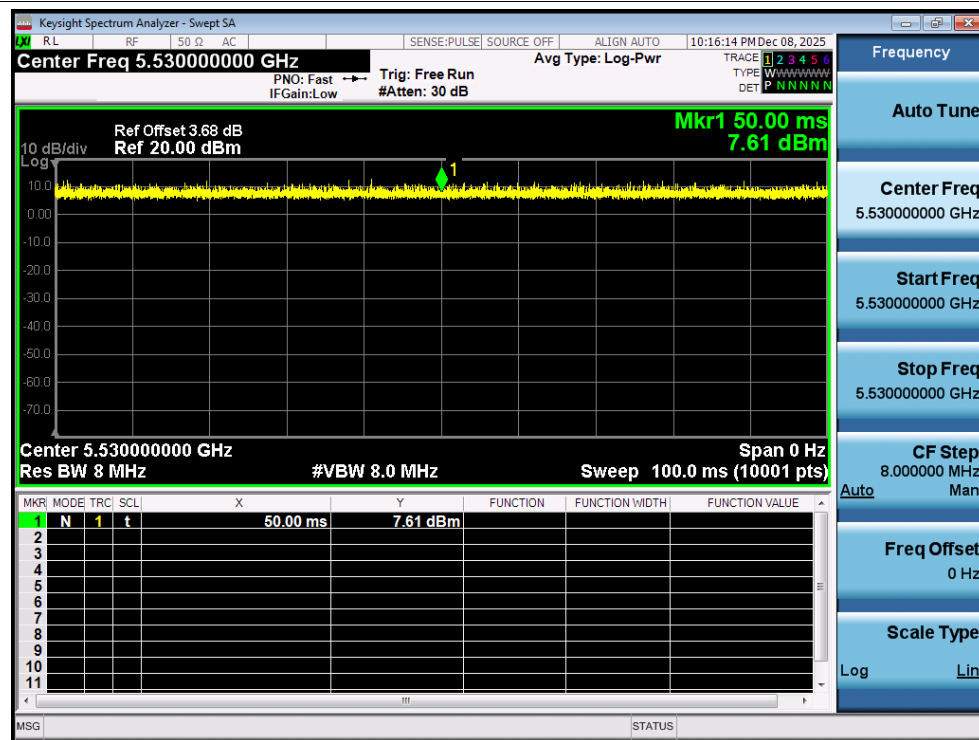
Duty Cycle NVNT ac20 5500MHz Ant A



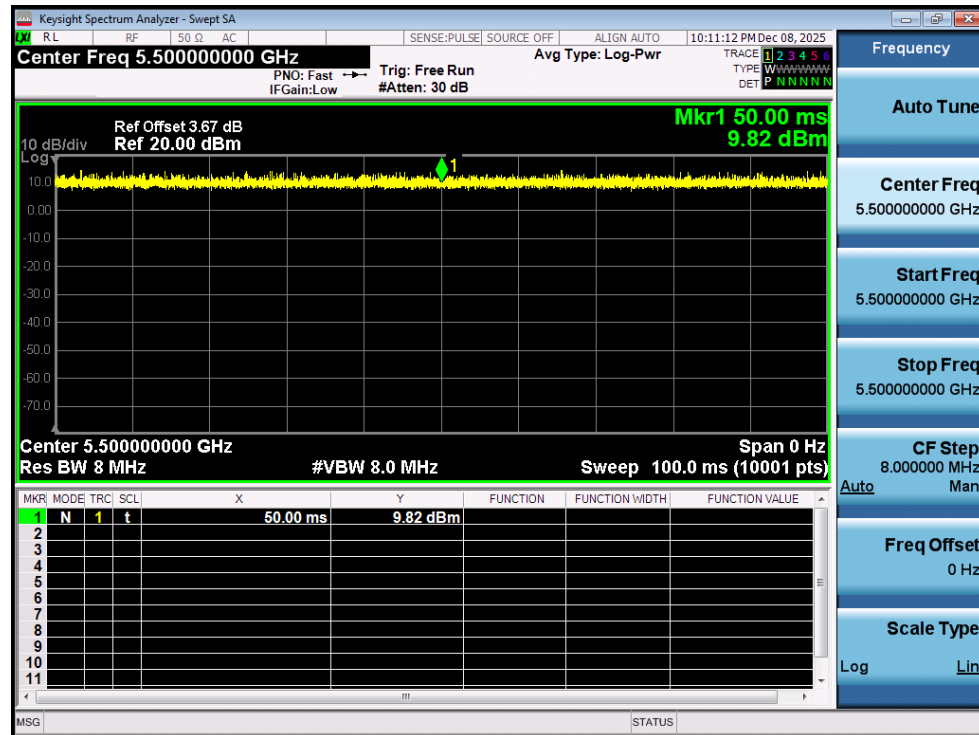
Duty Cycle NVNT ac40 5510MHz Ant A



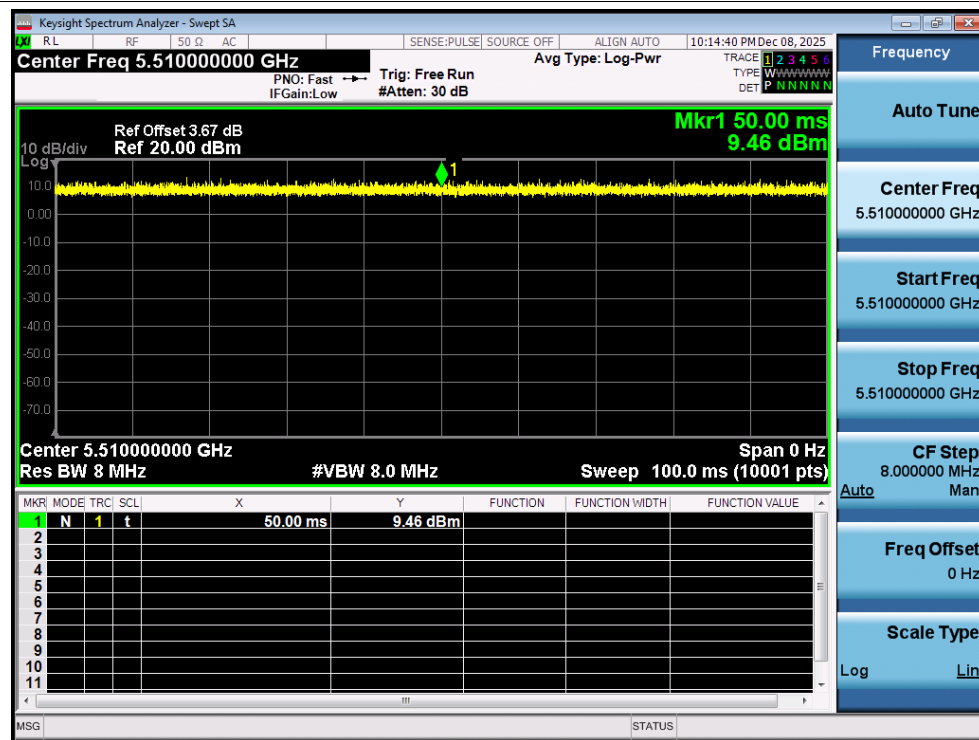
Duty Cycle NVNT ac80 5530MHz Ant A



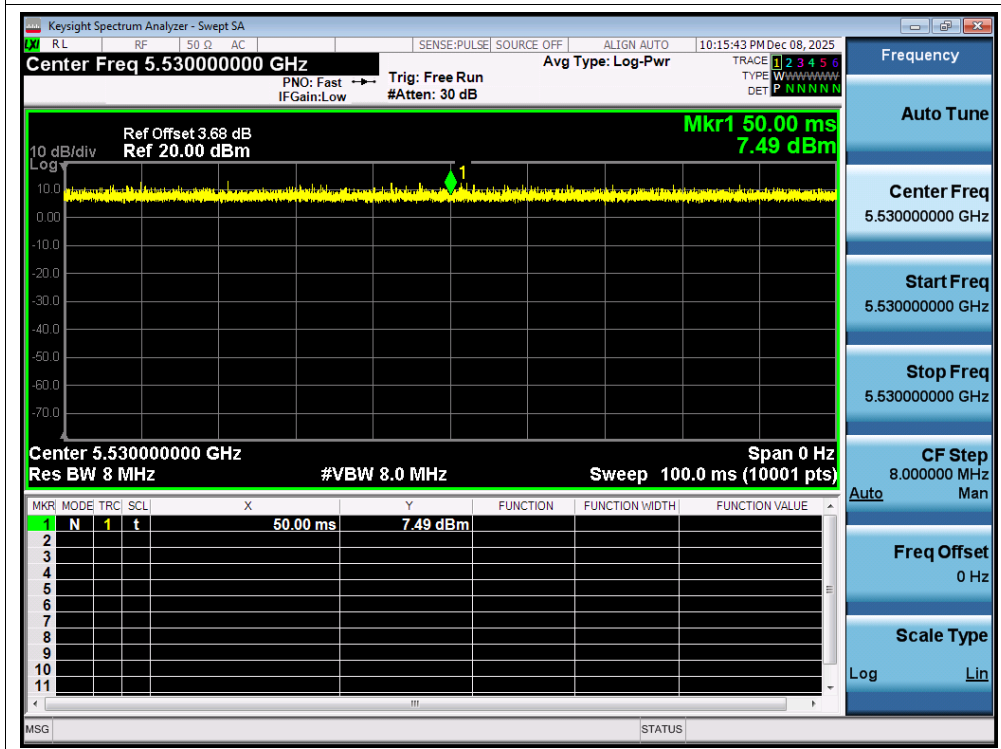
Duty Cycle NVNT ax20 5500MHz Ant A



Duty Cycle NVNT ax40 5510MHz Ant A



Duty Cycle NVNT ax80 5530MHz Ant A



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant A	11.99	24	Pass
NVNT	a	5580	Ant A	12.01	24	Pass
NVNT	a	5700	Ant A	11.79	24	Pass
NVNT	n20	5500	Ant A	10.83	24	Pass
NVNT	n20	5580	Ant A	10.75	24	Pass
NVNT	n20	5700	Ant A	10.69	24	Pass
NVNT	n40	5510	Ant A	9.68	24	Pass
NVNT	n40	5550	Ant A	9.2	24	Pass
NVNT	n40	5670	Ant A	9.21	24	Pass
NVNT	ac20	5500	Ant A	11.12	24	Pass
NVNT	ac20	5580	Ant A	10.86	24	Pass
NVNT	ac20	5700	Ant A	10.5	24	Pass
NVNT	ac40	5510	Ant A	8.95	24	Pass
NVNT	ac40	5550	Ant A	9.29	24	Pass
NVNT	ac40	5670	Ant A	9.35	24	Pass
NVNT	ac80	5530	Ant A	8.28	24	Pass
NVNT	ac80	5610	Ant A	8.16	24	Pass
NVNT	ax20	5500	Ant A	10.25	24	Pass
NVNT	ax20	5580	Ant A	11.02	24	Pass
NVNT	ax20	5700	Ant A	10.85	24	Pass
NVNT	ax40	5510	Ant A	9.65	24	Pass
NVNT	ax40	5550	Ant A	9.31	24	Pass
NVNT	ax40	5670	Ant A	8.86	24	Pass
NVNT	ax80	5530	Ant A	8.34	24	Pass
NVNT	ax80	5610	Ant A	8.33	24	Pass

Condition	Mode	Frequency (MHz)	Ant A Conducted Power (dBm)	Ant B Conducted Power (dBm)	Total Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	11.99	11.42	/	24	Pass
NVNT	a	5580	12.01	11.51	/	24	Pass
NVNT	a	5700	11.79	11.79	/	24	Pass
NVNT	n20	5500	10.83	10.3	13.58	24	Pass
NVNT	n20	5580	10.75	10.09	13.44	24	Pass
NVNT	n20	5700	10.69	10.49	13.60	24	Pass
NVNT	n40	5510	9.68	7.4	11.70	24	Pass
NVNT	n40	5550	9.2	9.08	12.15	24	Pass
NVNT	n40	5670	9.21	9.21	12.22	24	Pass
NVNT	ac20	5500	11.12	10.21	13.70	24	Pass
NVNT	ac20	5580	10.86	9.86	13.40	24	Pass
NVNT	ac20	5700	10.5	11.11	13.83	24	Pass
NVNT	ac40	5510	8.95	8.34	11.67	24	Pass
NVNT	ac40	5550	9.29	8.5	11.92	24	Pass
NVNT	ac40	5670	9.35	9.04	12.21	24	Pass
NVNT	ac80	5530	8.28	7.79	11.05	24	Pass
NVNT	ac80	5610	8.16	7.28	10.75	24	Pass
NVNT	ax20	5500	10.25	10.7	13.49	24	Pass
NVNT	ax20	5580	11.02	9.77	13.45	24	Pass
NVNT	ax20	5700	10.85	10.29	13.59	24	Pass
NVNT	ax40	5510	9.65	8.83	12.27	24	Pass
NVNT	ax40	5550	9.31	8.47	11.92	24	Pass
NVNT	ax40	5670	8.86	8.62	11.75	24	Pass
NVNT	ax80	5530	8.34	8.06	11.21	24	Pass
NVNT	ax80	5610	8.33	8.32	11.34	24	Pass

Note:

Antenna A gain: 3.05 dBi, Antenna B gain: 3.27dBi

For power measurements,

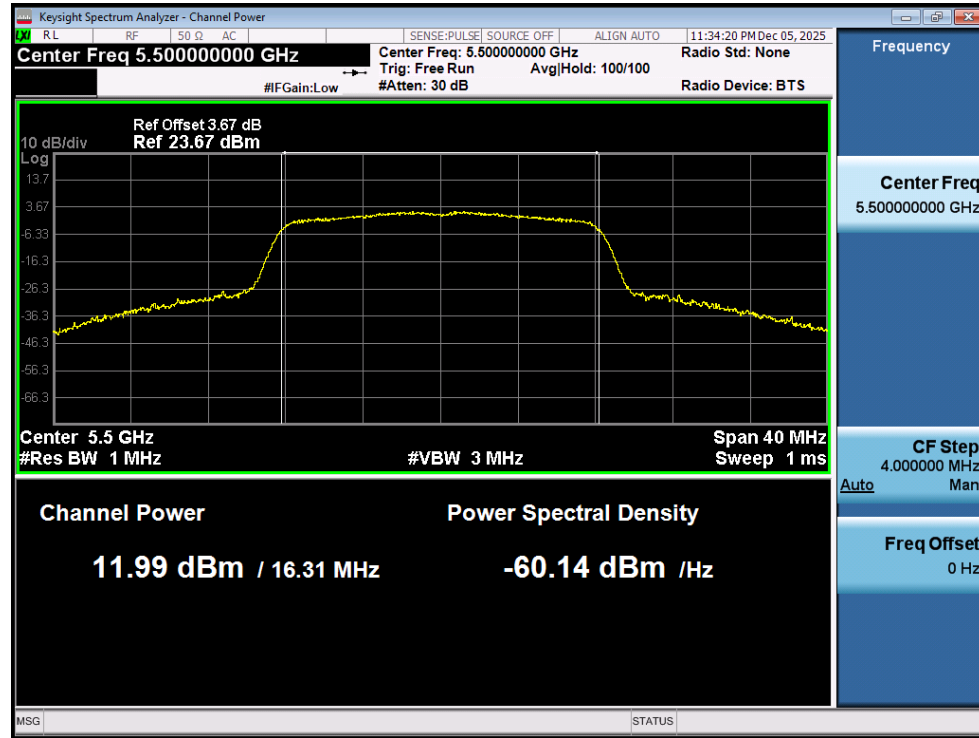
The Array gain=0 for NANT ≤ 4,

So the directional gain for Power measurements is 3.27 dBi

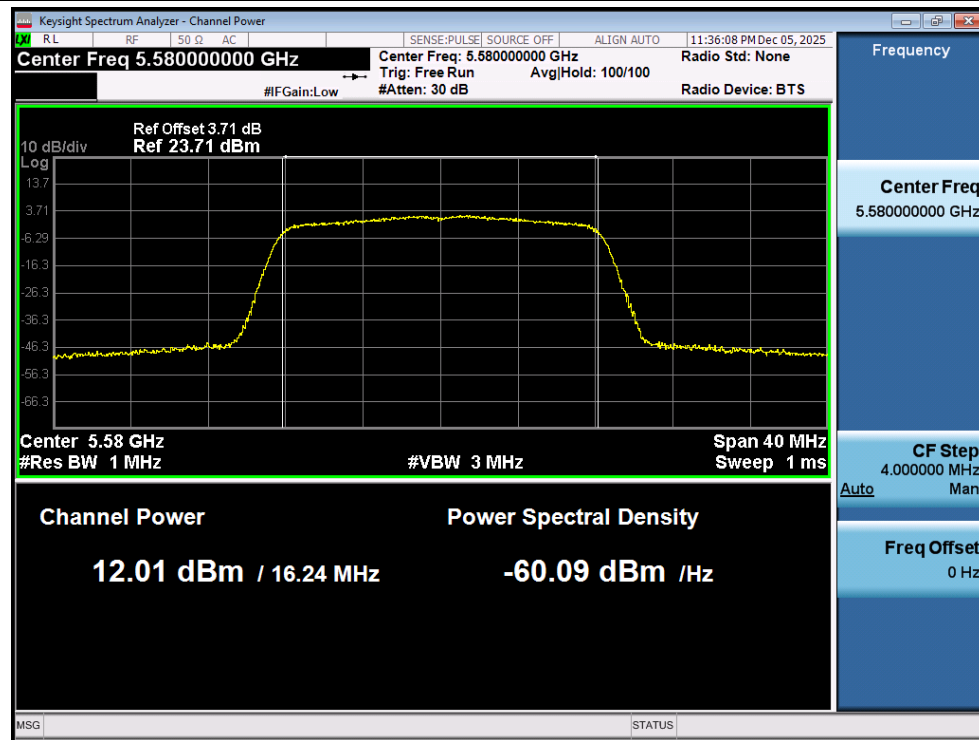
Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

Test Graphs

Power NVNT a 5500MHz Ant A



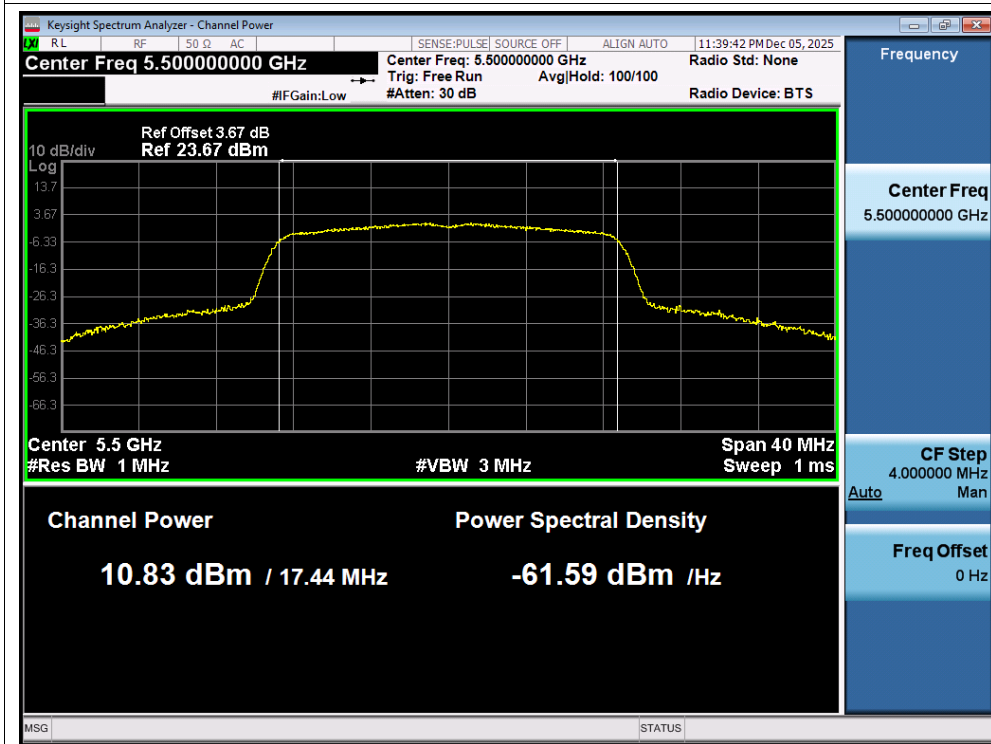
Power NVNT a 5580MHz Ant A



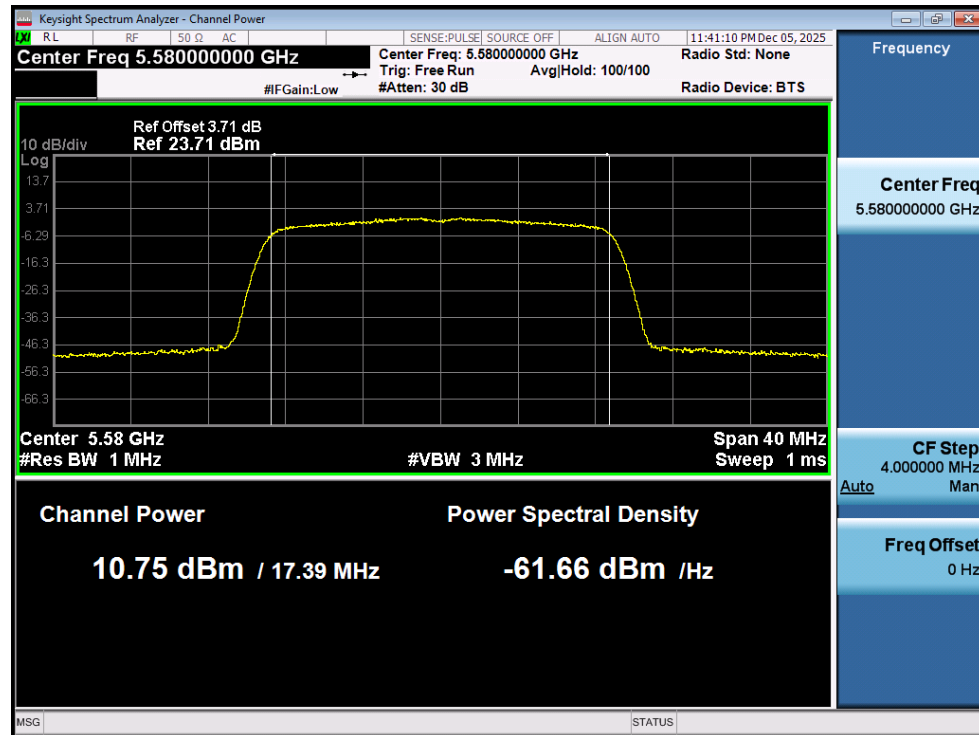
Power NVNT a 5700MHz Ant A



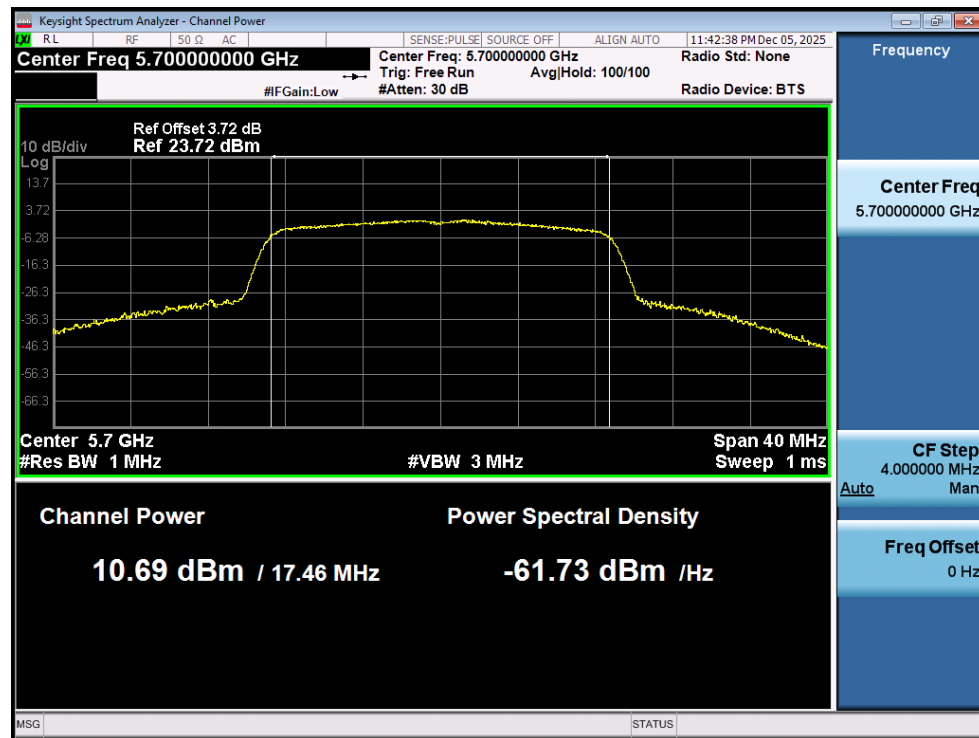
Power NVNT n20 5500MHz Ant A



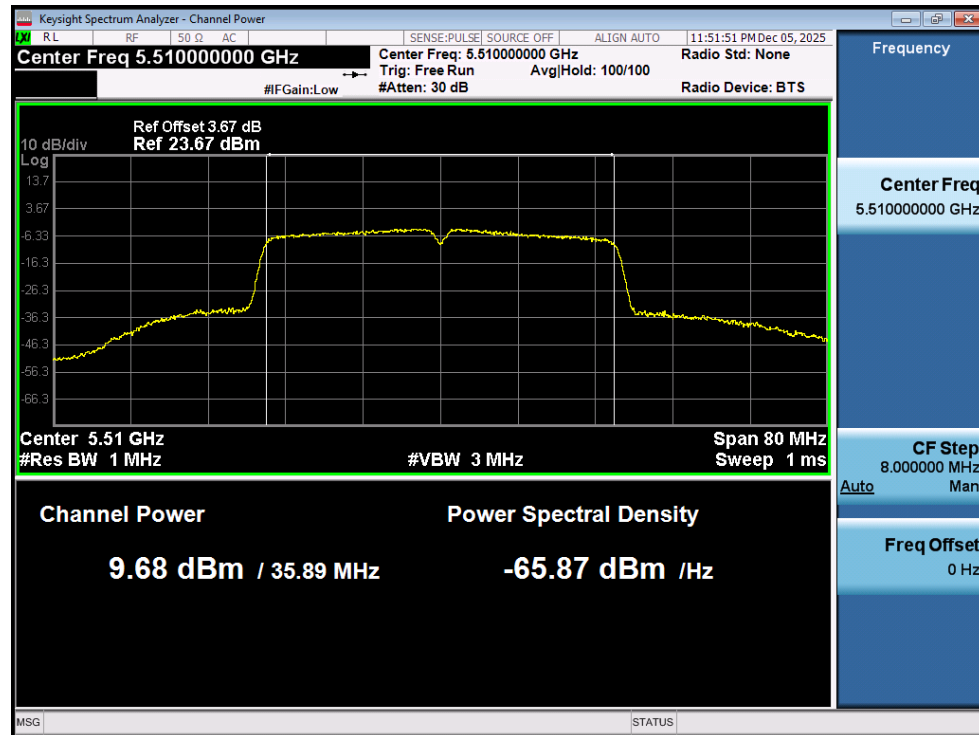
Power NVNT n20 5580MHz Ant A



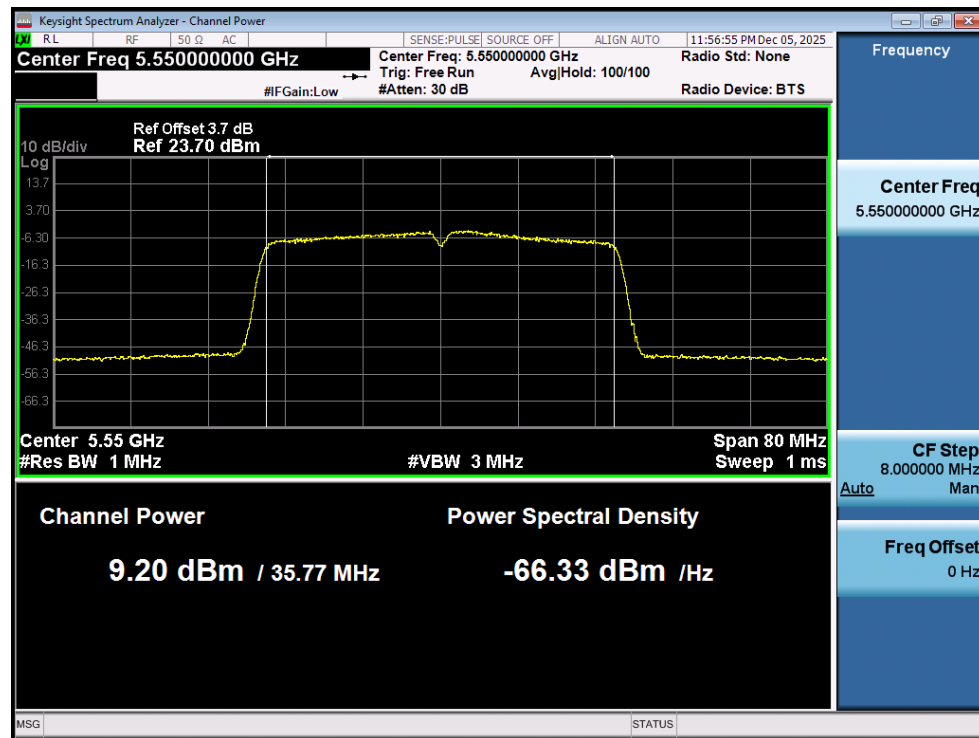
Power NVNT n20 5700MHz Ant A



Power NVNT n40 5510MHz Ant A



Power NVNT n40 5550MHz Ant A



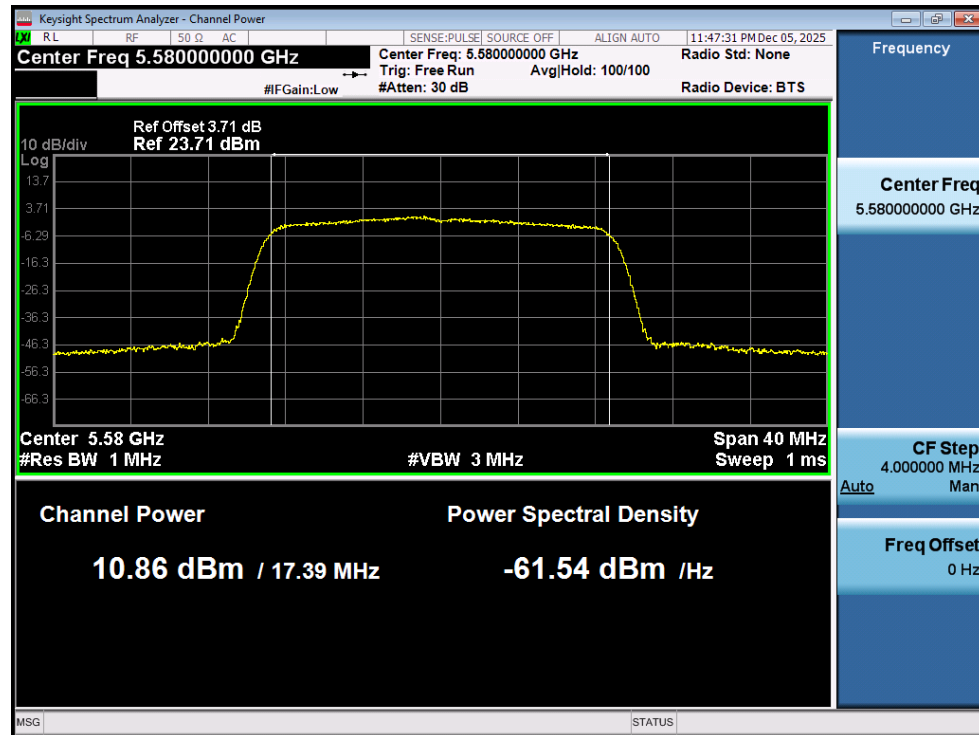
Power NVNT n40 5670MHz Ant A



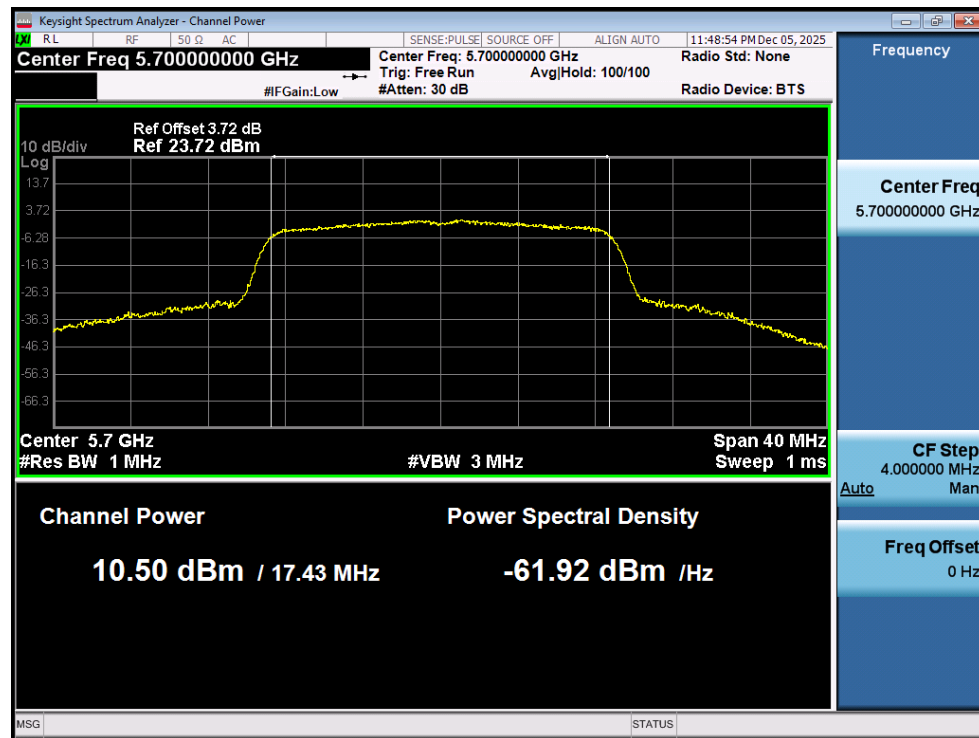
Power NVNT ac20 5500MHz Ant A



Power NVNT ac20 5580MHz Ant A



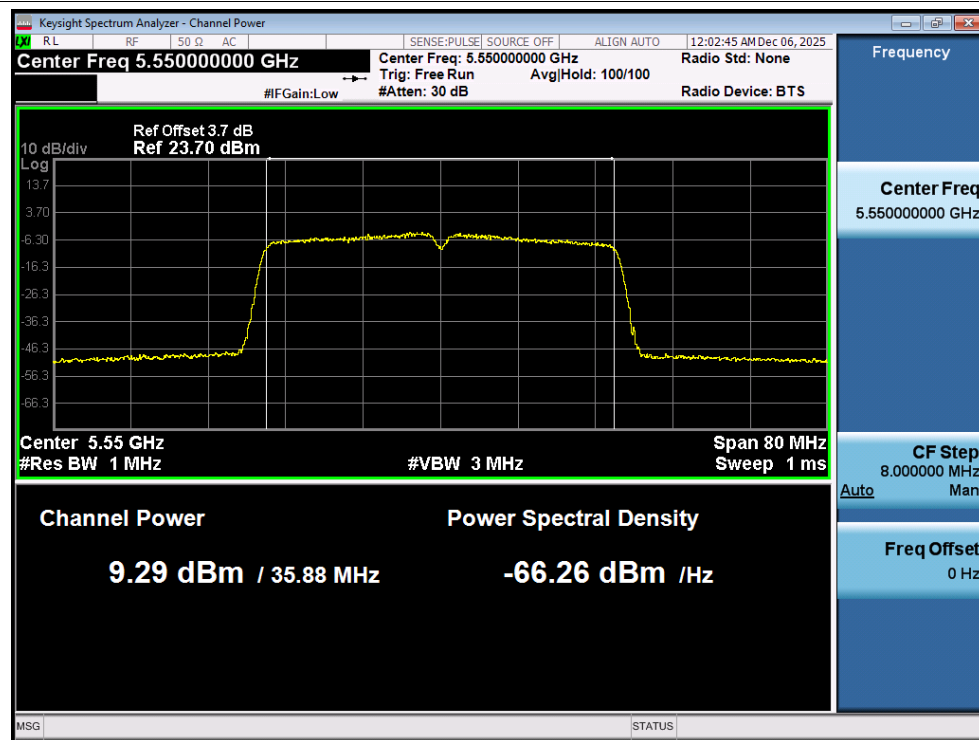
Power NVNT ac20 5700MHz Ant A



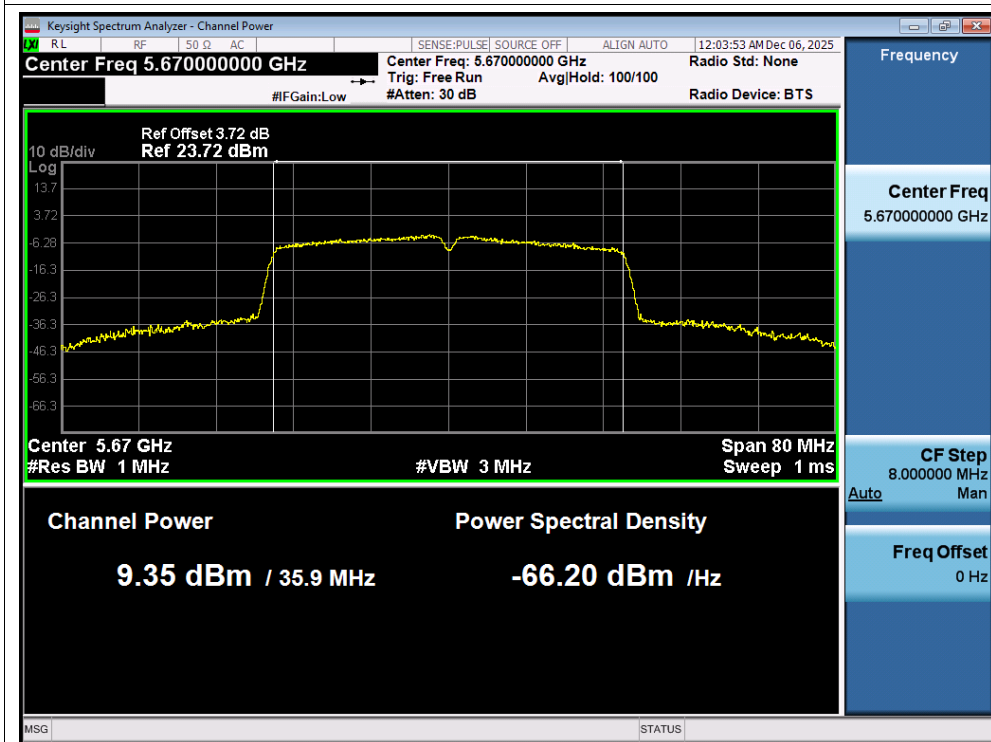
Power NVNT ac40 5510MHz Ant A



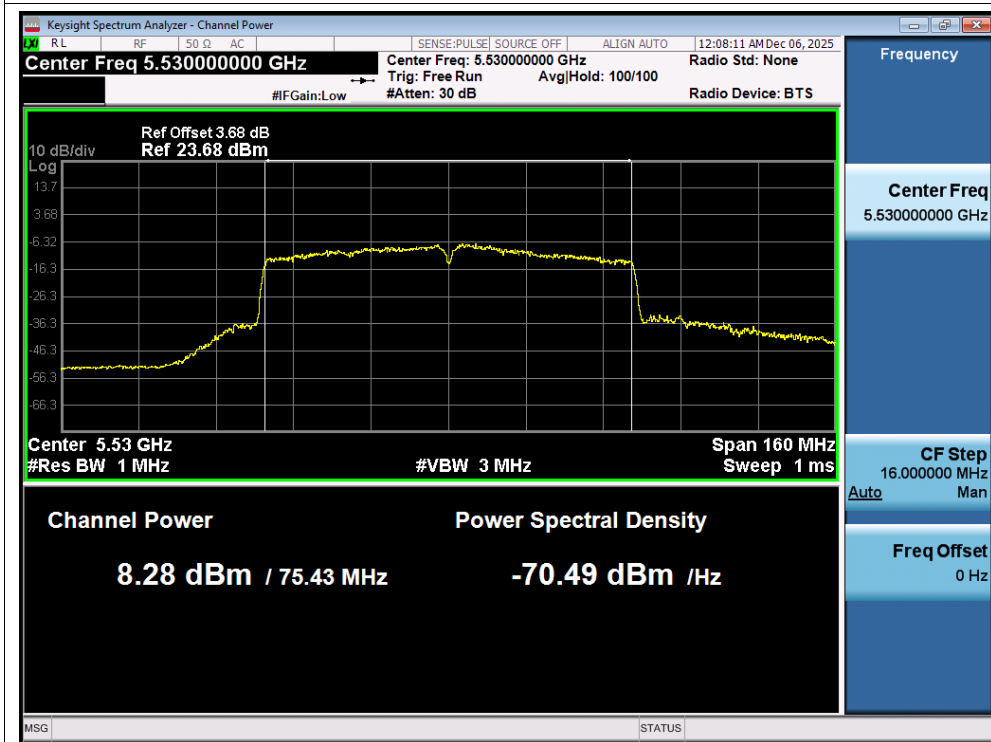
Power NVNT ac40 5550MHz Ant A



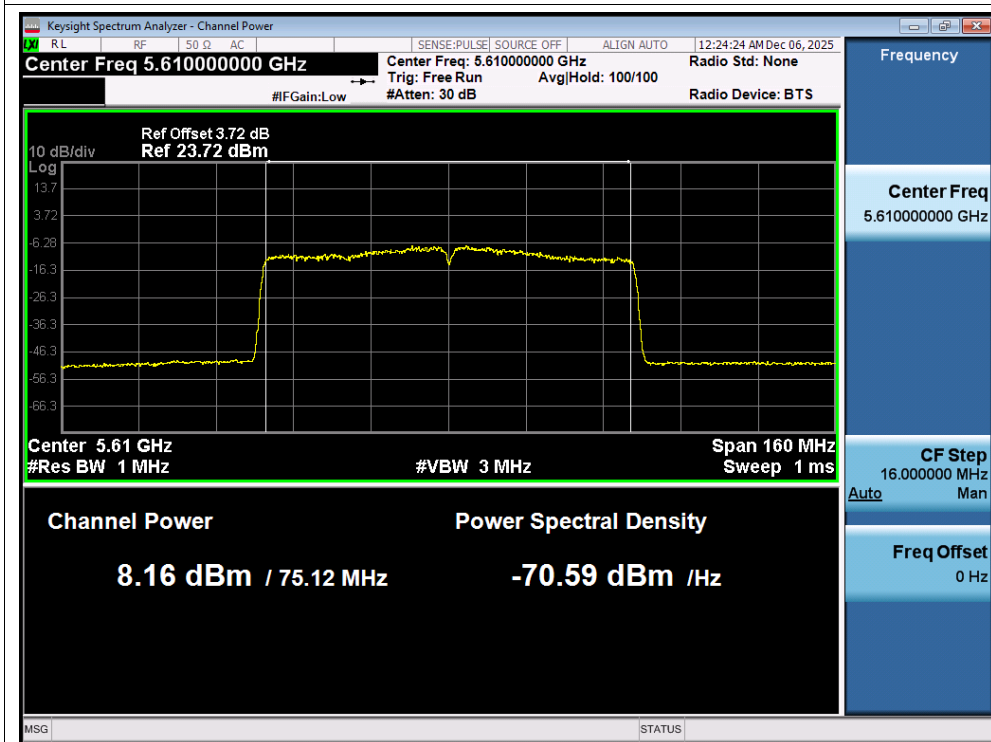
Power NVNT ac40 5670MHz Ant A



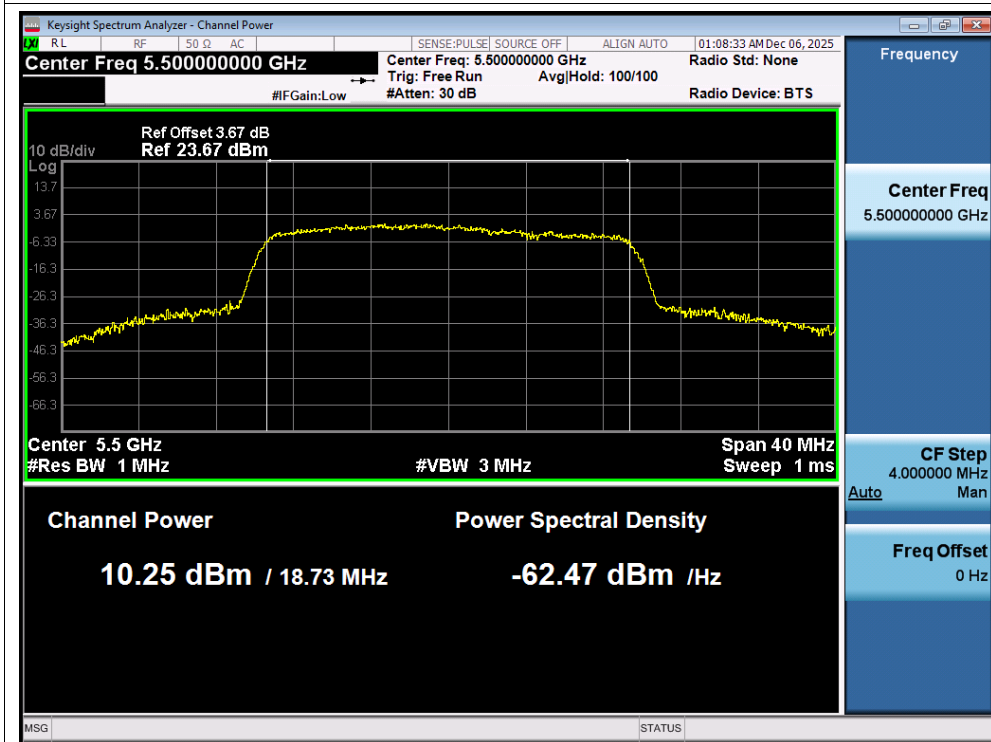
Power NVNT ac80 5530MHz Ant A



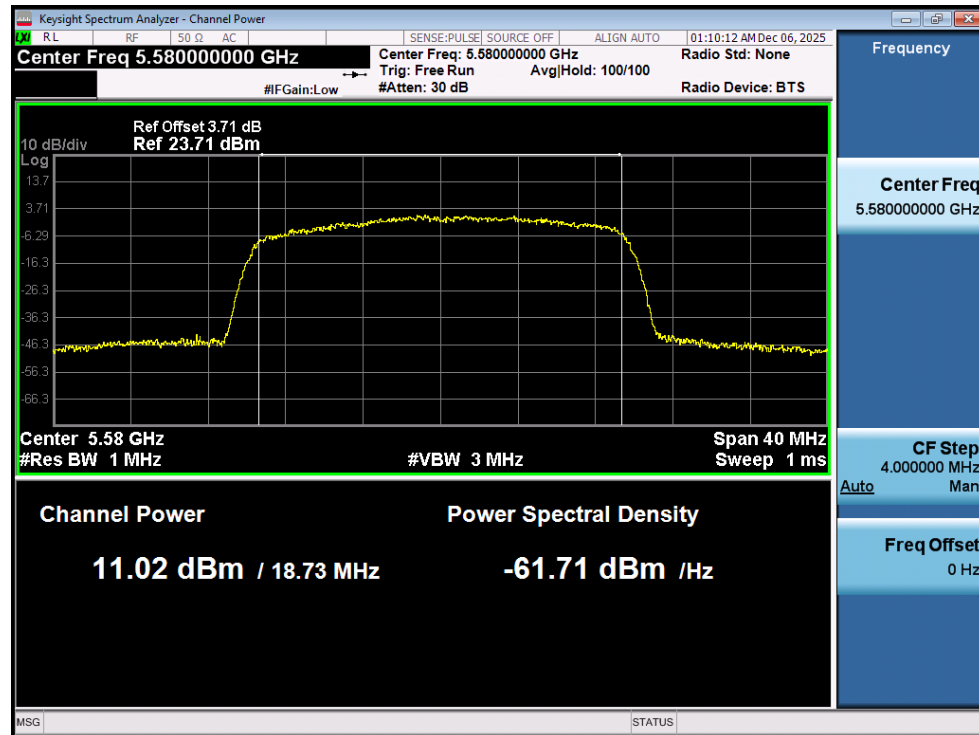
Power NVNT ac80 5610MHz Ant A



Power NVNT ax20 5500MHz Ant A



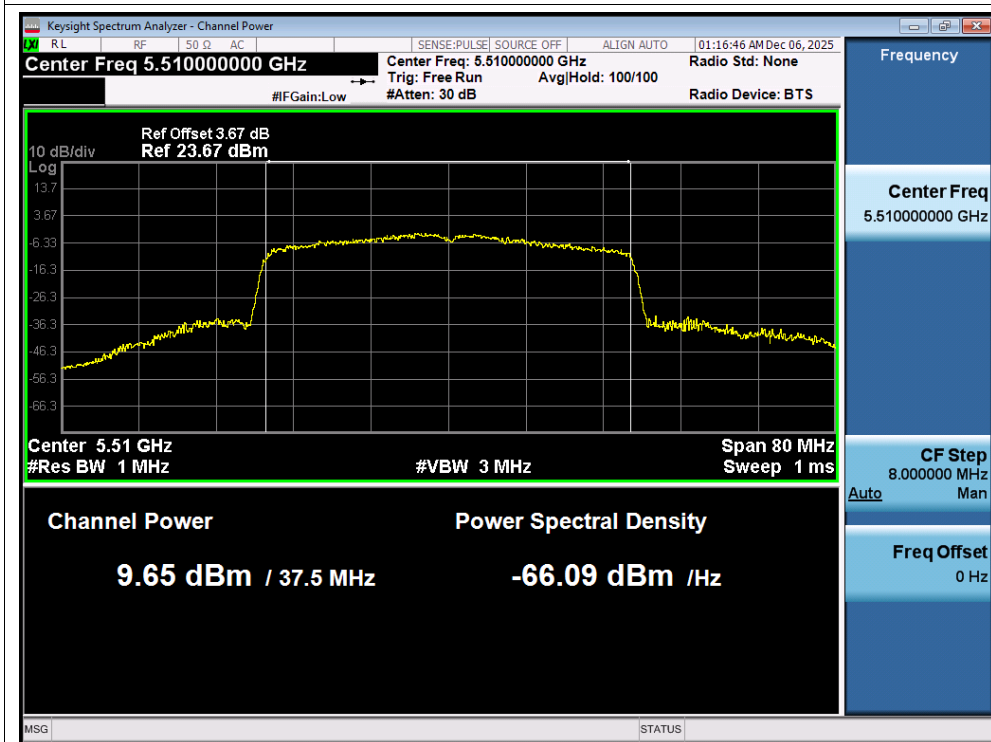
Power NVNT ax20 5580MHz Ant A



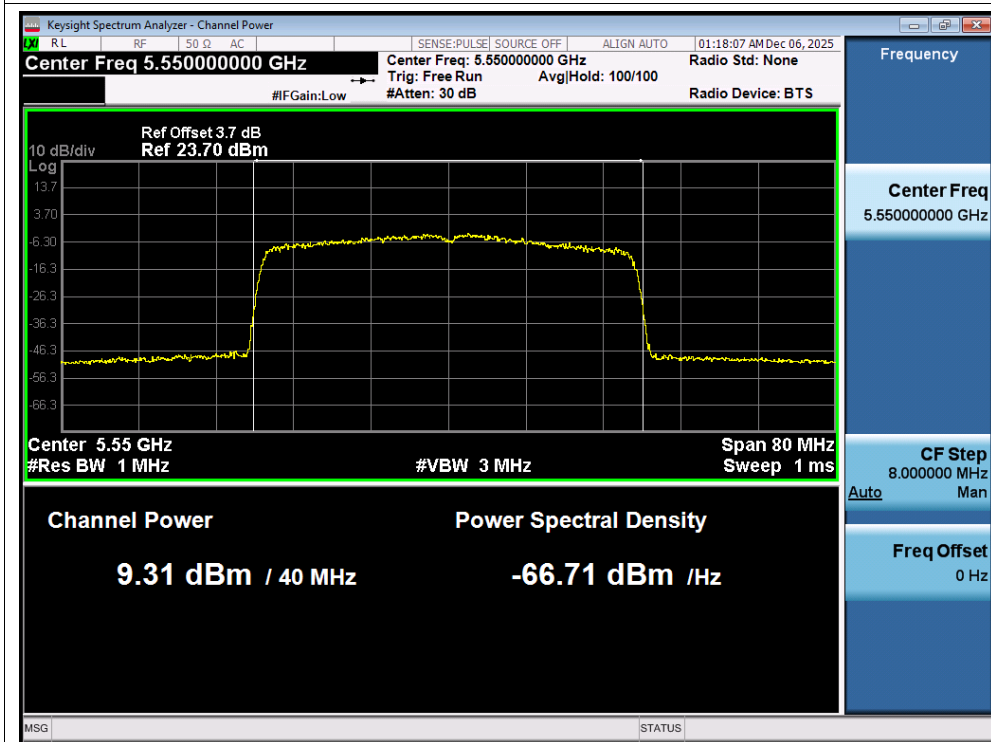
Power NVNT ax20 5700MHz Ant A



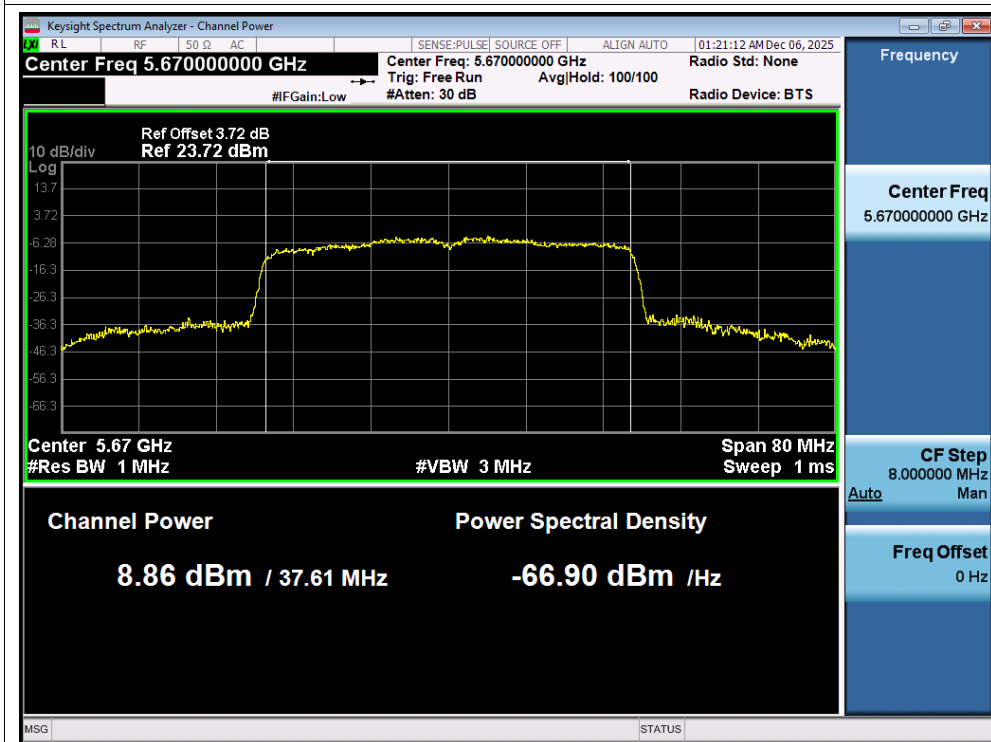
Power NVNT ax40 5510MHz Ant A



Power NVNT ax40 5550MHz Ant A

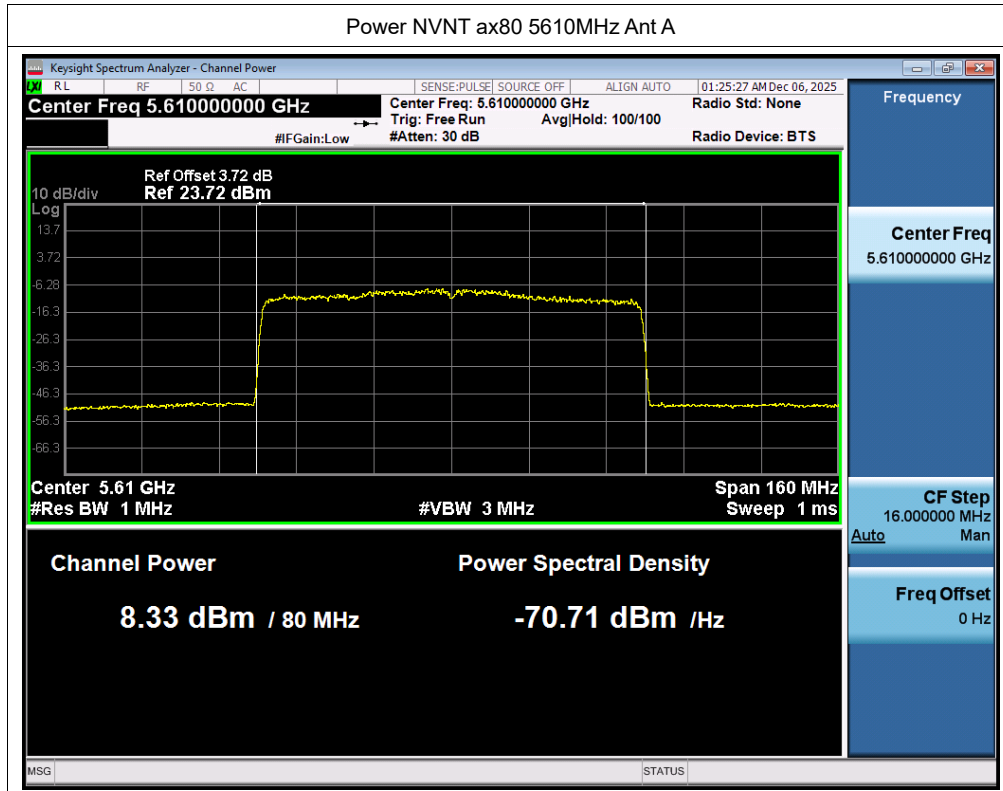


Power NVNT ax40 5670MHz Ant A



Power NVNT ax80 5530MHz Ant A





-26dB Bandwidth

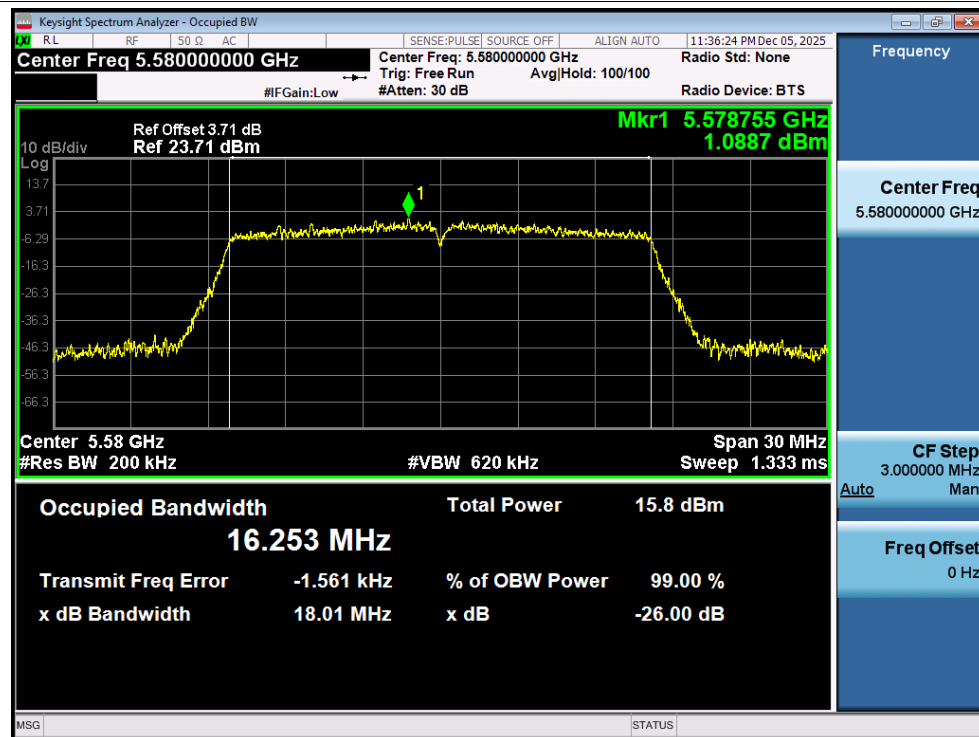
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant A	21.365	0.5	Pass
		5580		18.009	0.5	Pass
		5700		18.842	0.5	Pass
	n20	5500		20.251	0.5	Pass
		5580		18.671	0.5	Pass
		5700		20.181	0.5	Pass
	n40	5510		38.275	0.5	Pass
		5550		38.274	0.5	Pass
		5670		38.801	0.5	Pass
	ac20	5500		18.995	0.5	Pass
		5580		18.696	0.5	Pass
		5700		21.592	0.5	Pass
	ac40	5510		45.435	0.5	Pass
		5550		38.155	0.5	Pass
		5670		45.619	0.5	Pass
	ac80	5530		102.416	0.5	Pass
		5610		78.664	0.5	Pass
	ax20	5500		19.692	0.5	Pass
		5580		19.696	0.5	Pass
		5700		19.606	0.5	Pass
	ax40	5510		39.086	0.5	Pass
		5550		39.147	0.5	Pass
		5670		39.18	0.5	Pass
	ax80	5530		99.175	0.5	Pass
		5610		79.53	0.5	Pass

Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant A



-26dB Bandwidth NVNT a 5580MHz Ant A



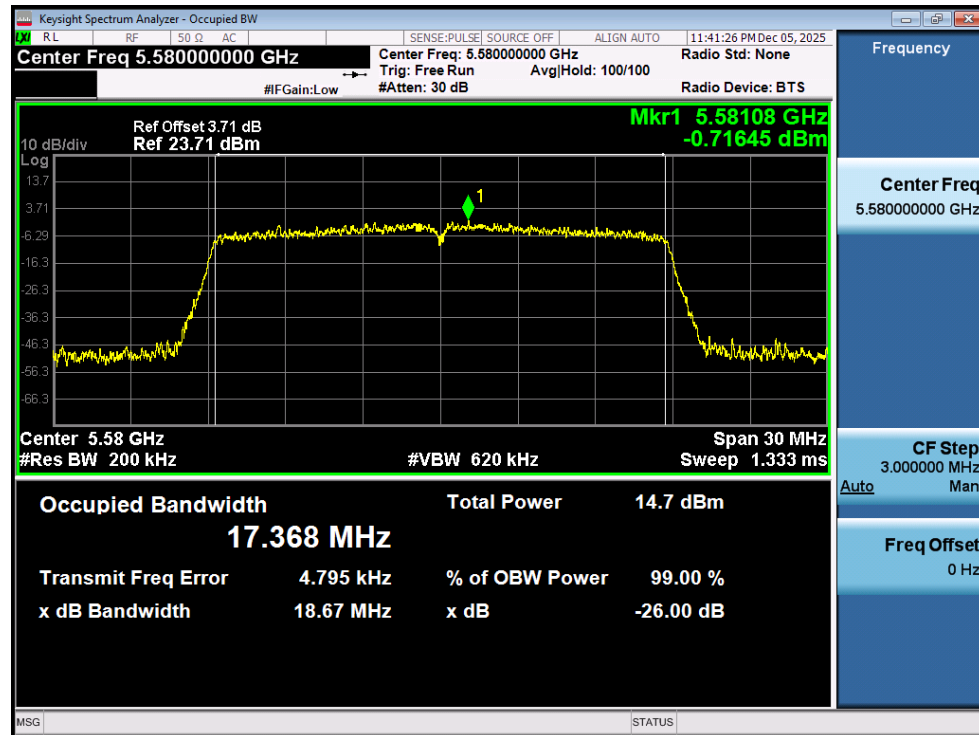
-26dB Bandwidth NVNT a 5700MHz Ant A



-26dB Bandwidth NVNT n20 5500MHz Ant A



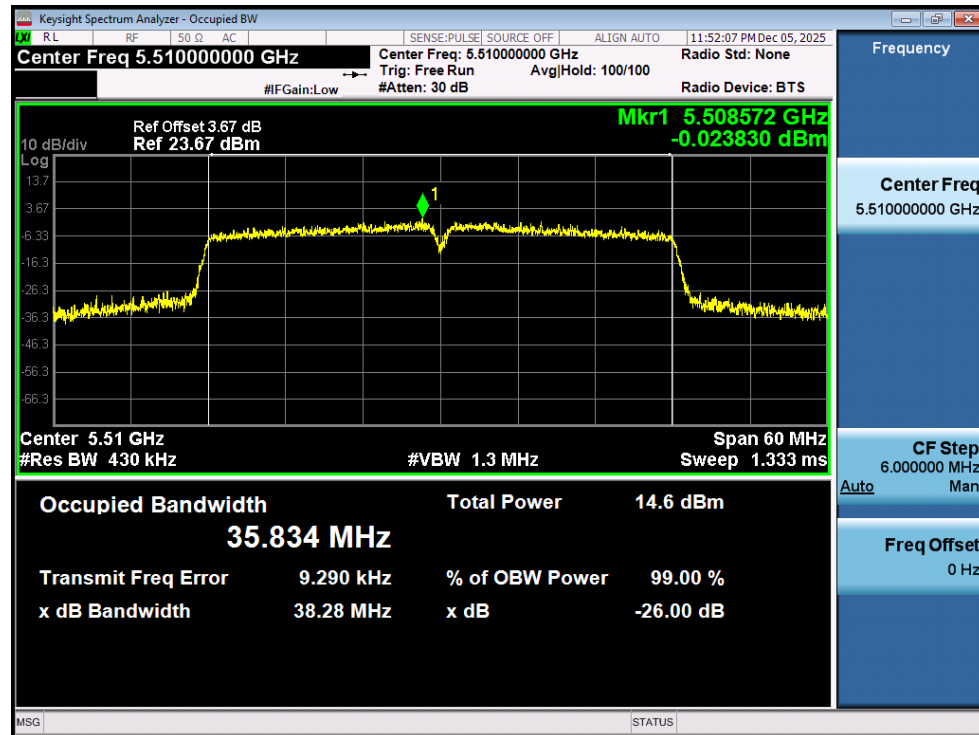
-26dB Bandwidth NVNT n20 5580MHz Ant A



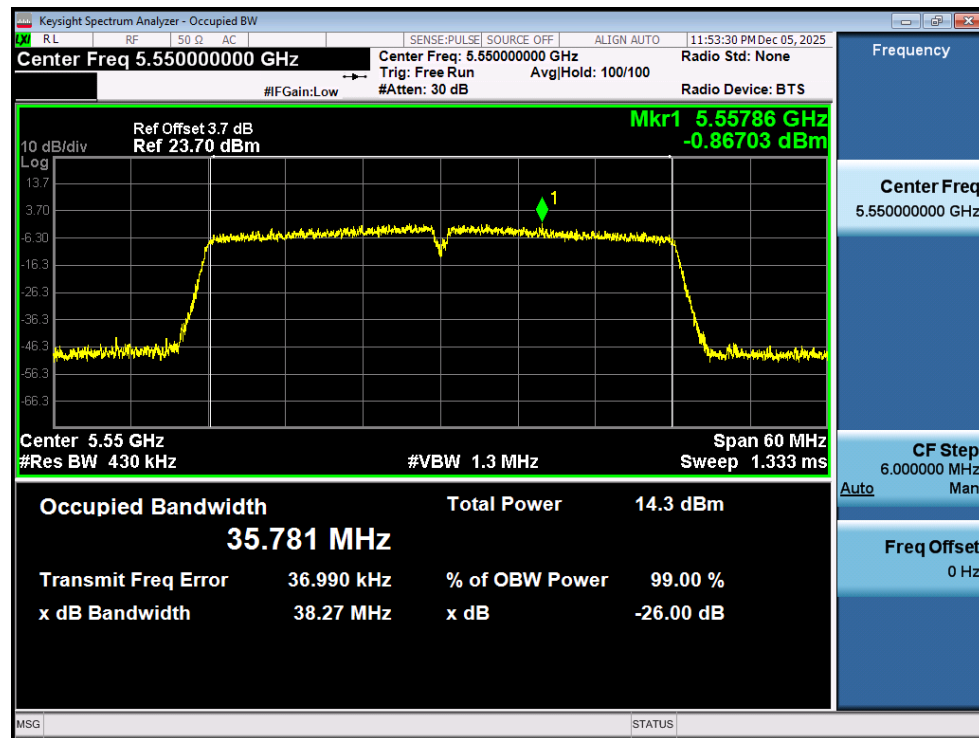
-26dB Bandwidth NVNT n20 5700MHz Ant A



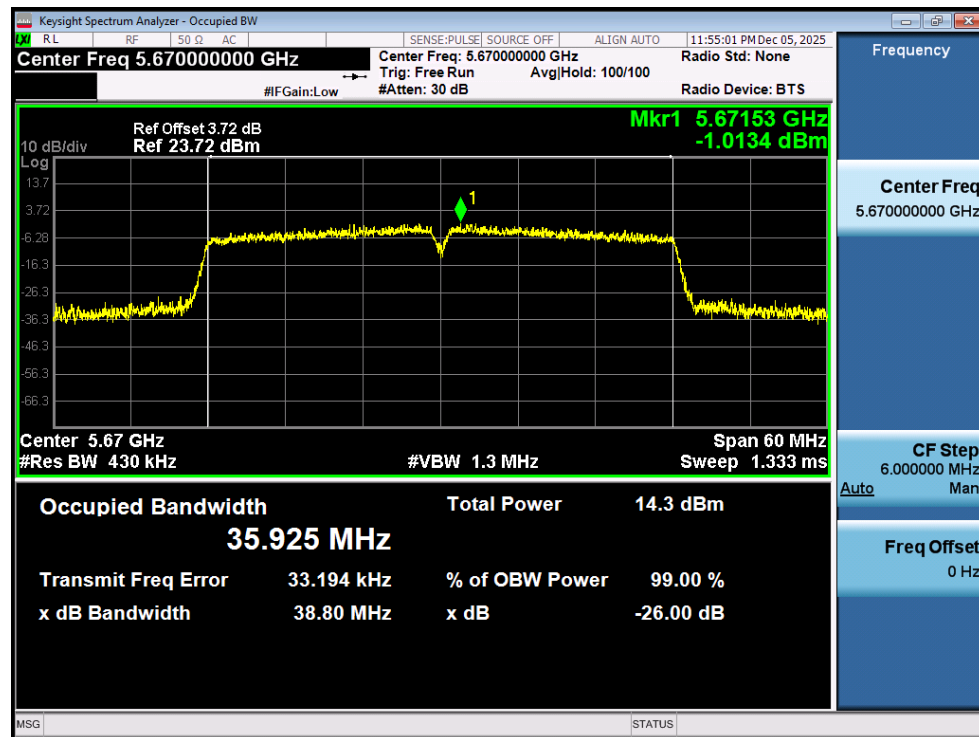
-26dB Bandwidth NVNT n40 5510MHz Ant A



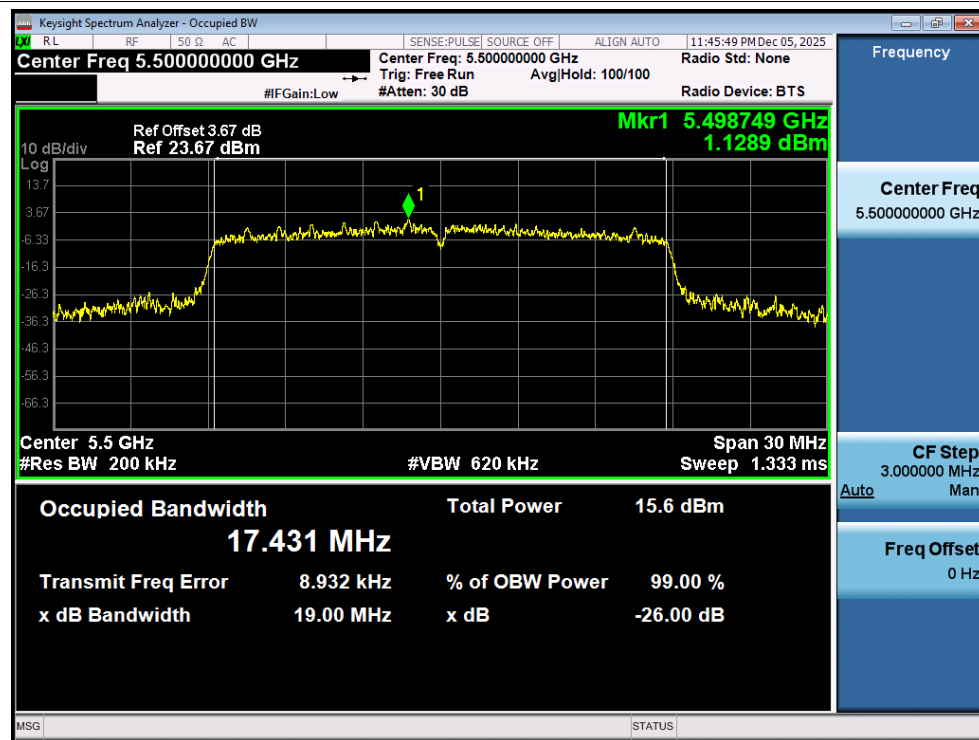
-26dB Bandwidth NVNT n40 5550MHz Ant A



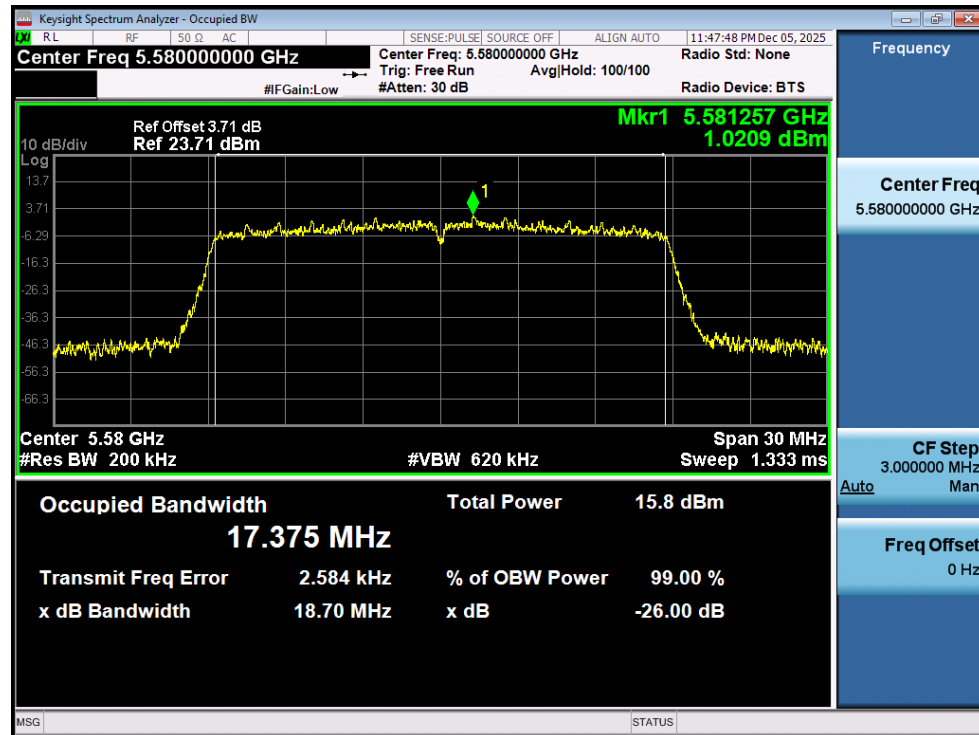
-26dB Bandwidth NVNT n40 5670MHz Ant A



-26dB Bandwidth NVNT ac20 5500MHz Ant A



-26dB Bandwidth NVNT ac20 5580MHz Ant A



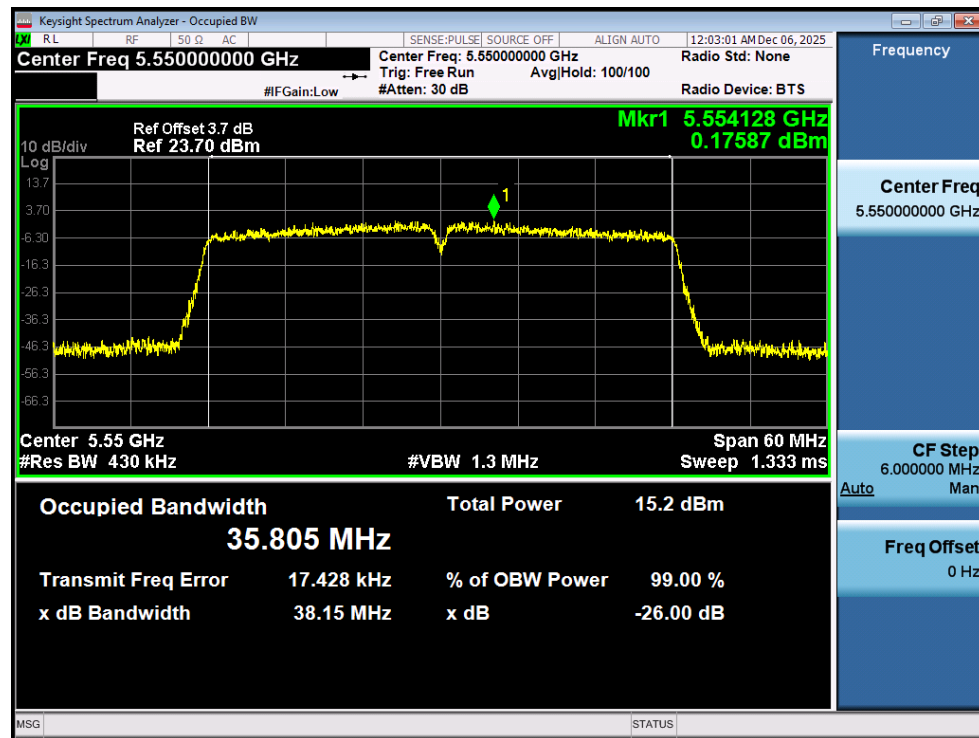
-26dB Bandwidth NVNT ac20 5700MHz Ant A



-26dB Bandwidth NVNT ac40 5510MHz Ant A



-26dB Bandwidth NVNT ac40 5550MHz Ant A



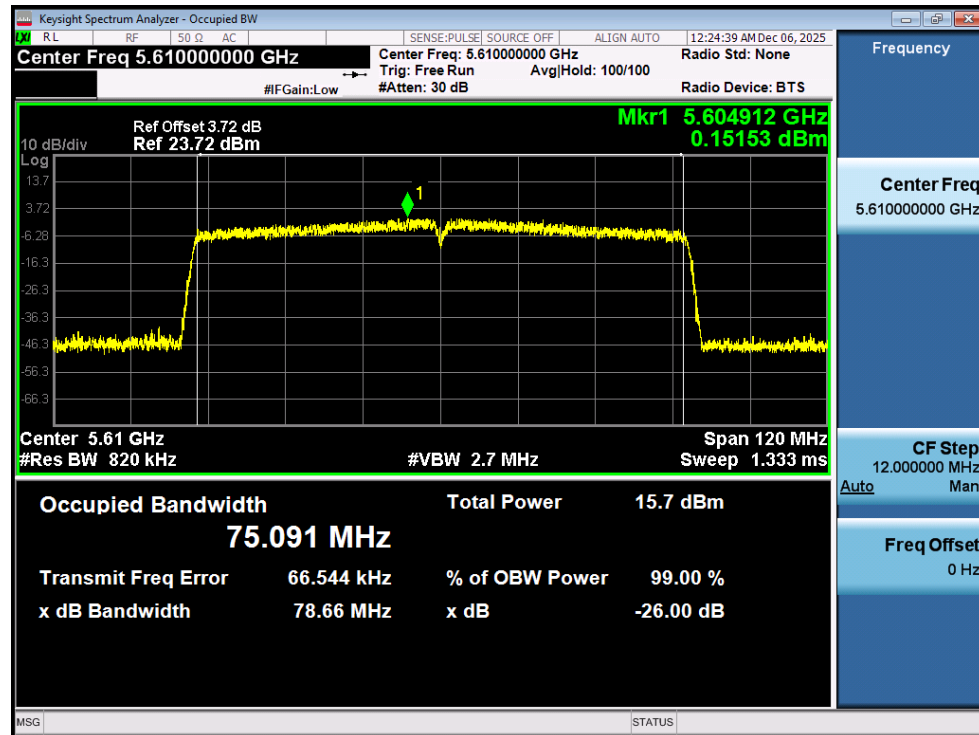
-26dB Bandwidth NVNT ac40 5670MHz Ant A



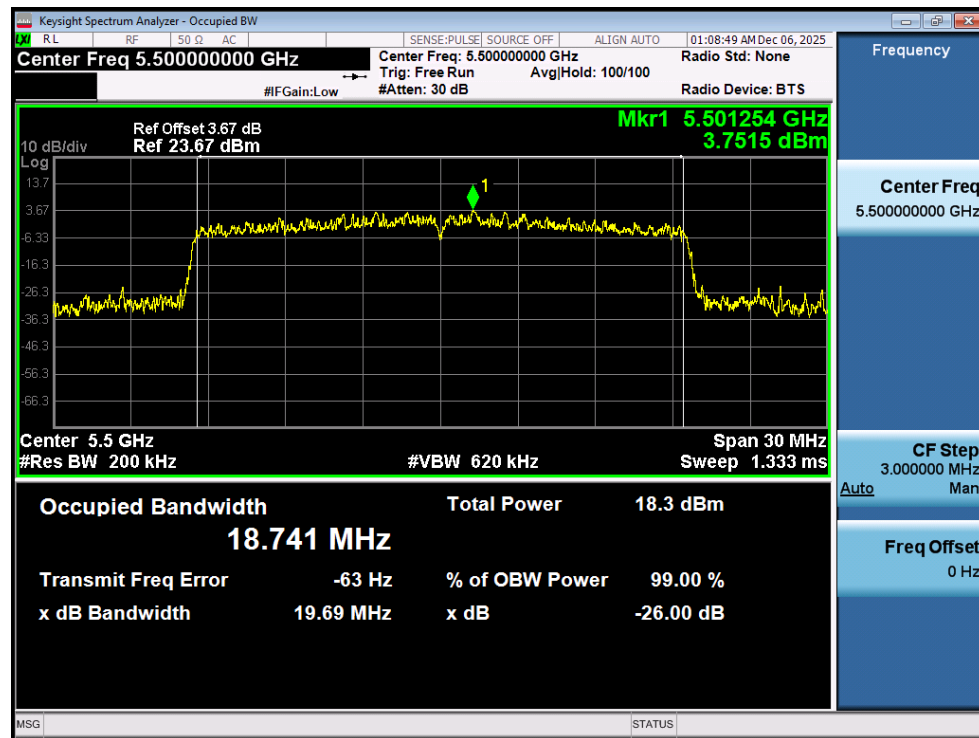
-26dB Bandwidth NVNT ac80 5530MHz Ant A



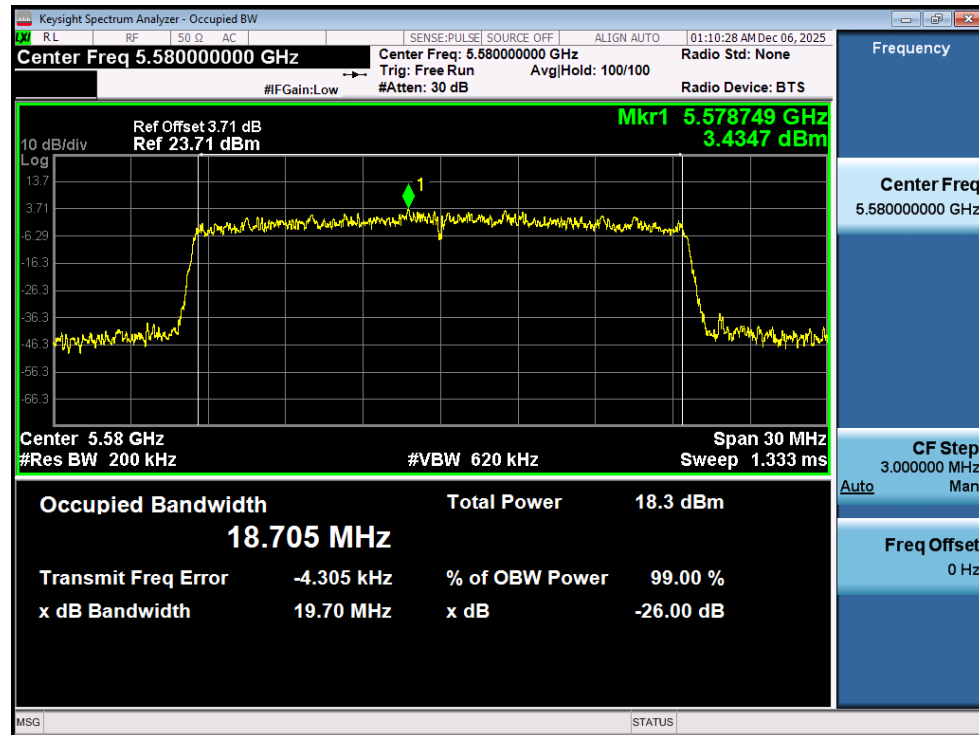
-26dB Bandwidth NVNT ac80 5610MHz Ant A



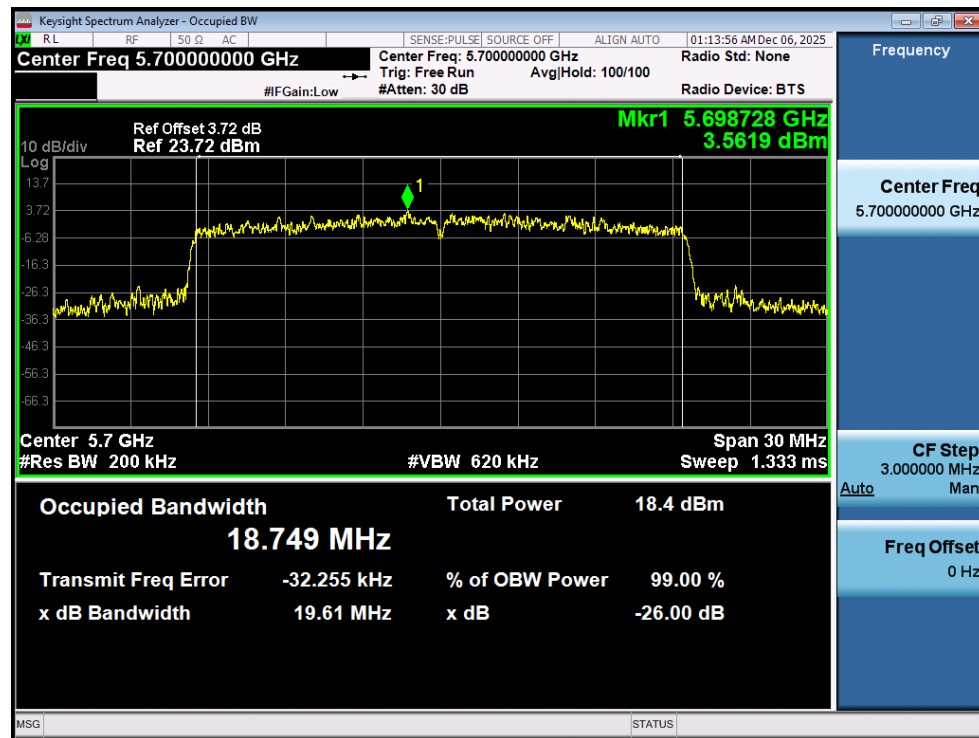
-26dB Bandwidth NVNT ax20 5500MHz Ant A



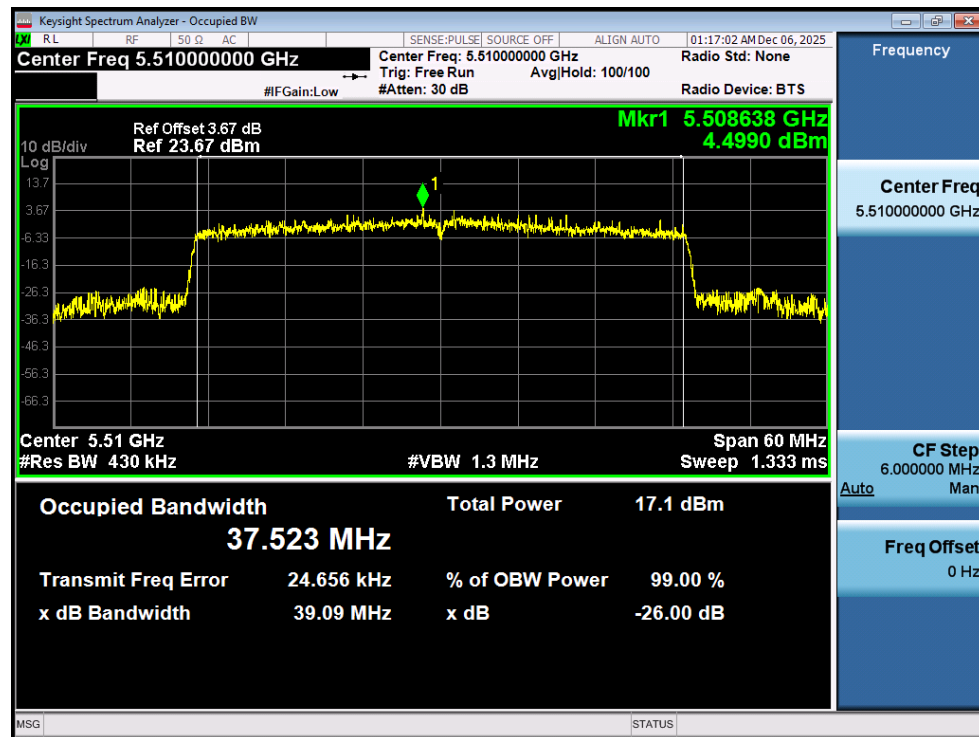
-26dB Bandwidth NVNT ax20 5580MHz Ant A



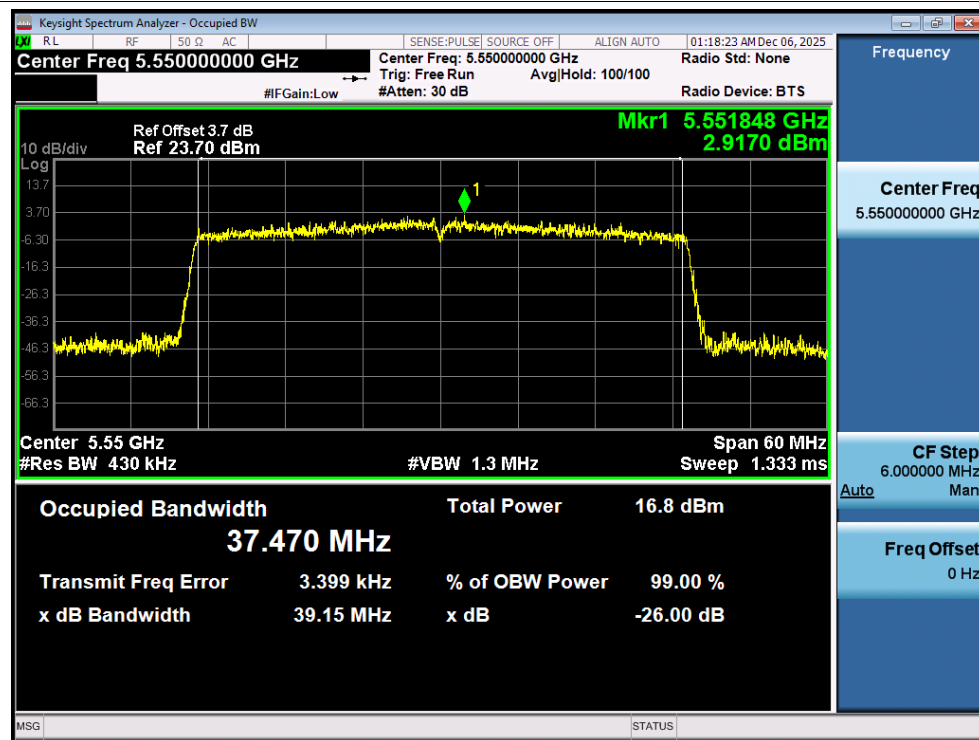
-26dB Bandwidth NVNT ax20 5700MHz Ant A



-26dB Bandwidth NVNT ax40 5510MHz Ant A



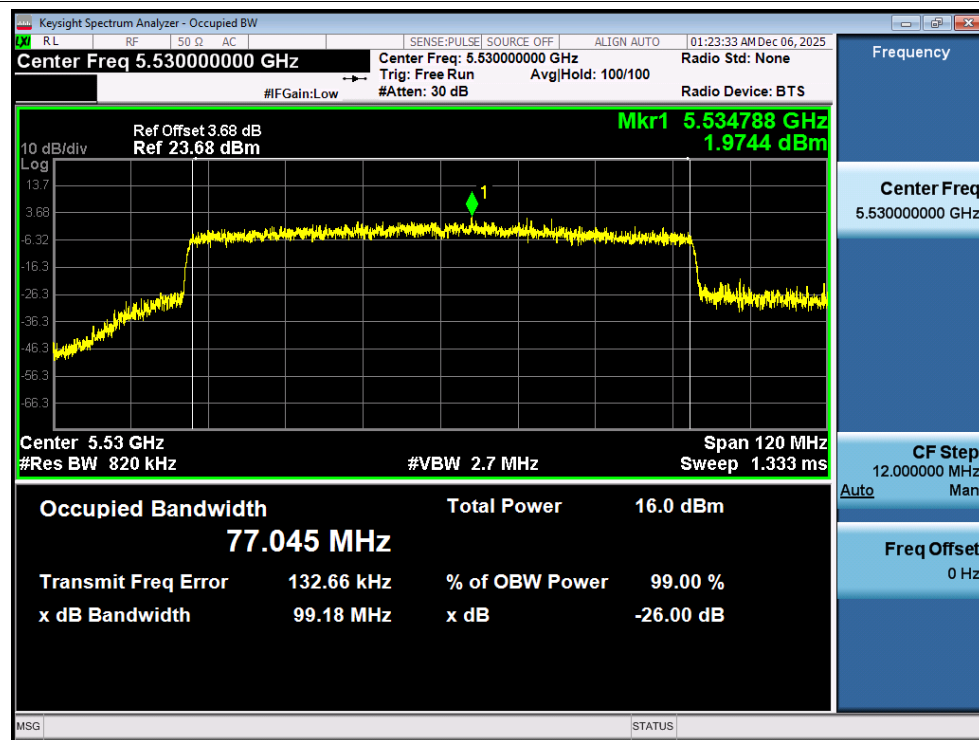
-26dB Bandwidth NVNT ax40 5550MHz Ant A

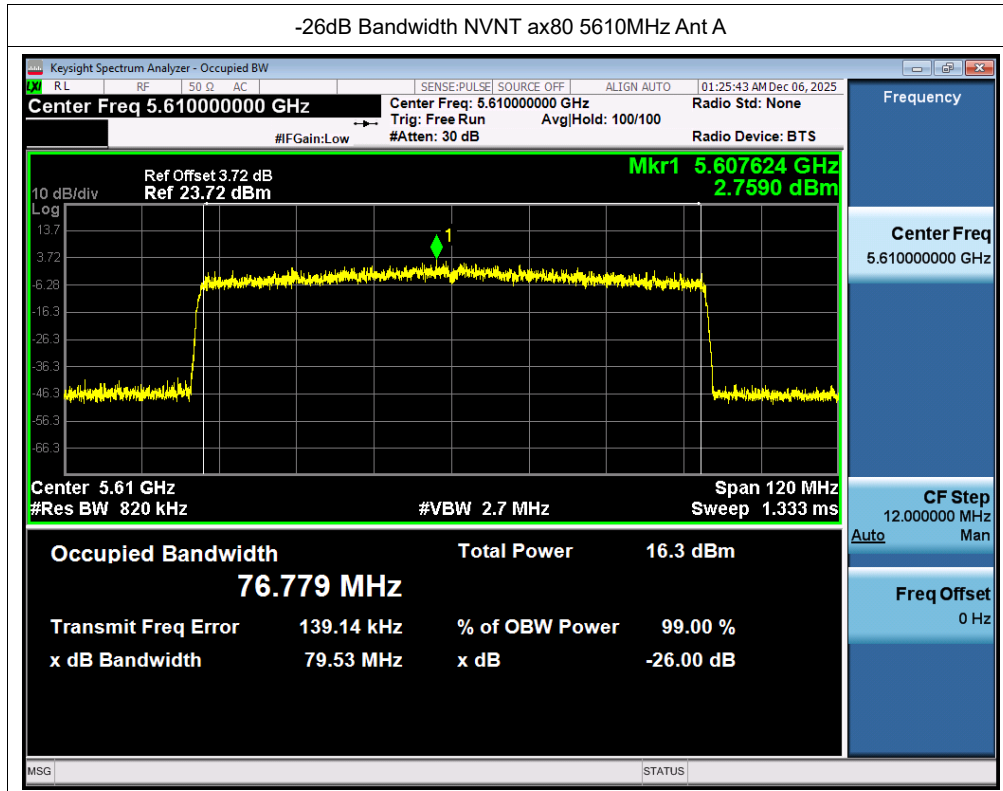


-26dB Bandwidth NVNT ax40 5670MHz Ant A



-26dB Bandwidth NVNT ax80 5530MHz Ant A



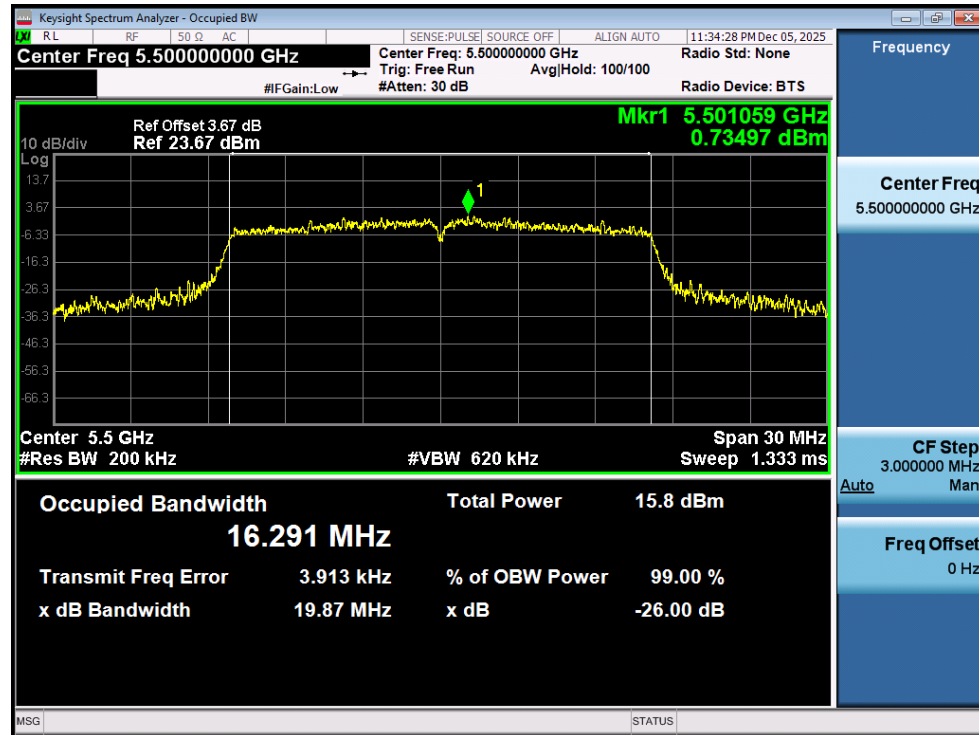


Occupied Channel Bandwidth

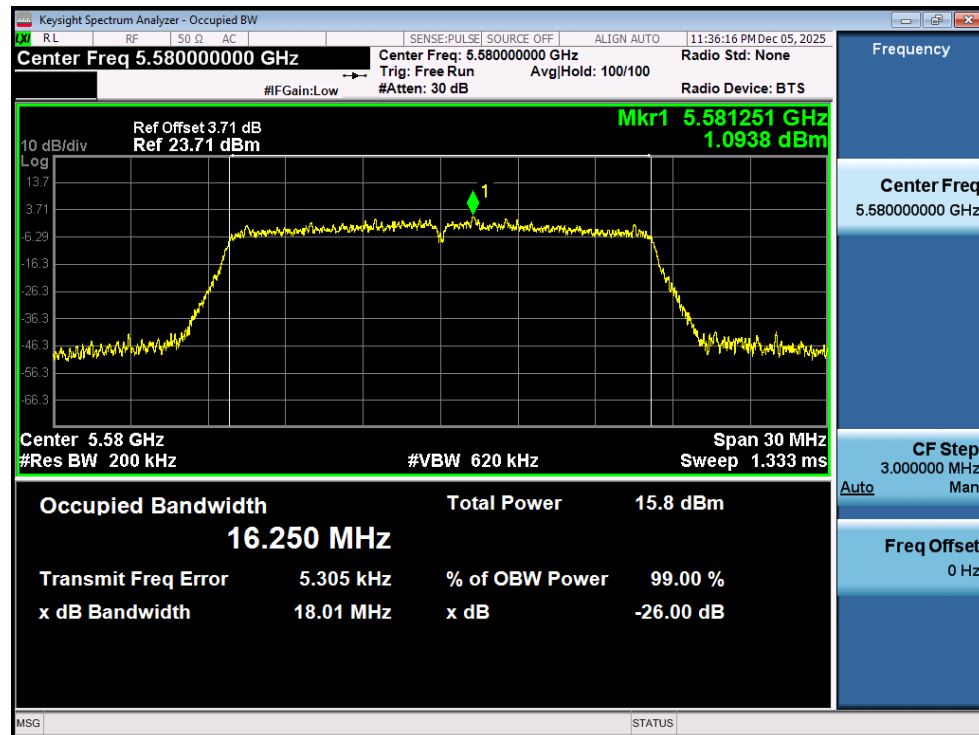
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant A	16.291
		5580		16.25
		5700		16.315
	n20	5500		17.427
		5580		17.376
		5700		17.441
	n40	5510		35.845
		5550		35.765
		5670		35.934
	ac20	5500		17.443
		5580		17.363
		5700		17.426
	ac40	5510		35.903
		5550		35.809
		5670		35.861
	ac80	5530		75.546
		5610		75.051
	ax20	5500		18.72
		5580		18.725
		5700		18.792
	ax40	5510		37.532
		5550		37.523
		5670		37.608
	ax80	5530		77.162
		5610		76.94

Test Graphs

OBW NVNT a 5500MHz Ant A



OBW NVNT a 5580MHz Ant A



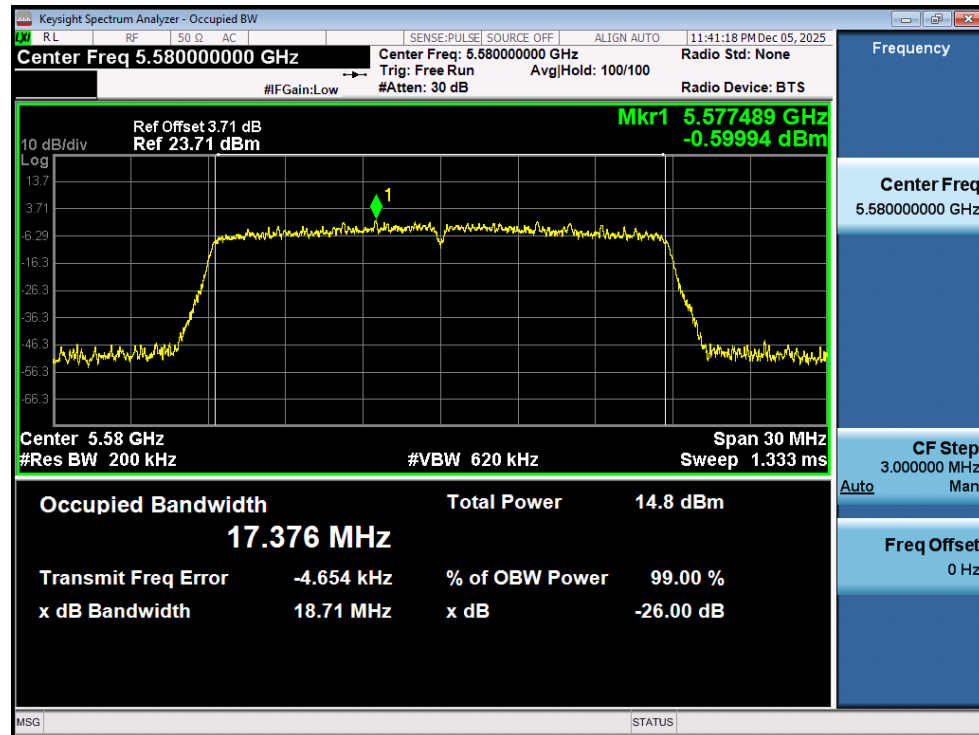
OBW NVNT a 5700MHz Ant A



OBW NVNT n20 5500MHz Ant A



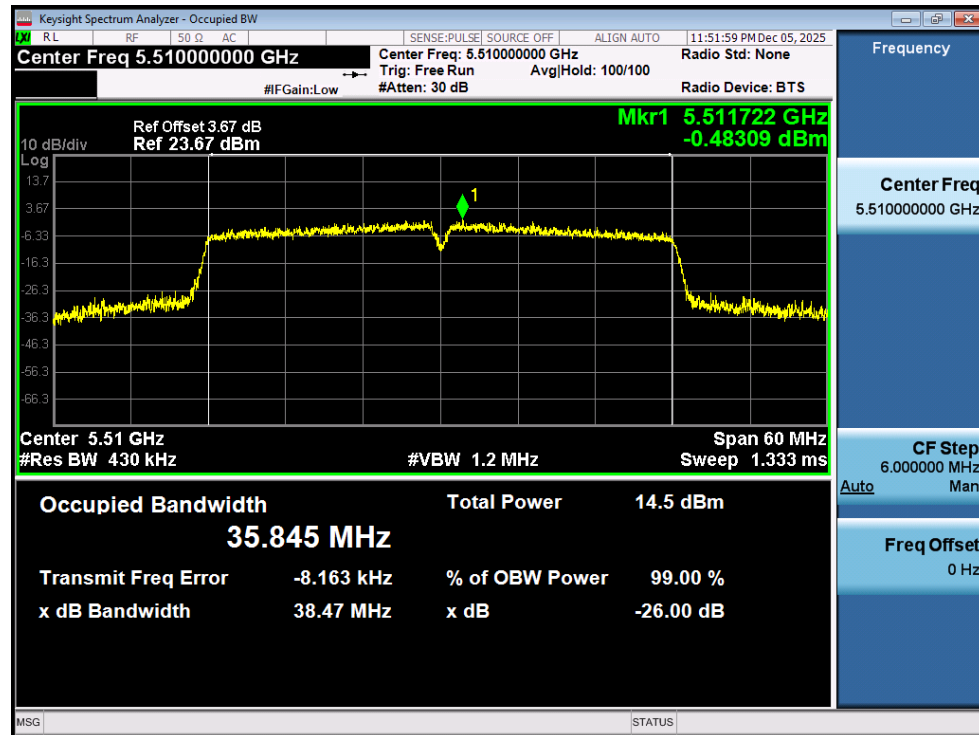
OBW NVNT n20 5580MHz Ant A



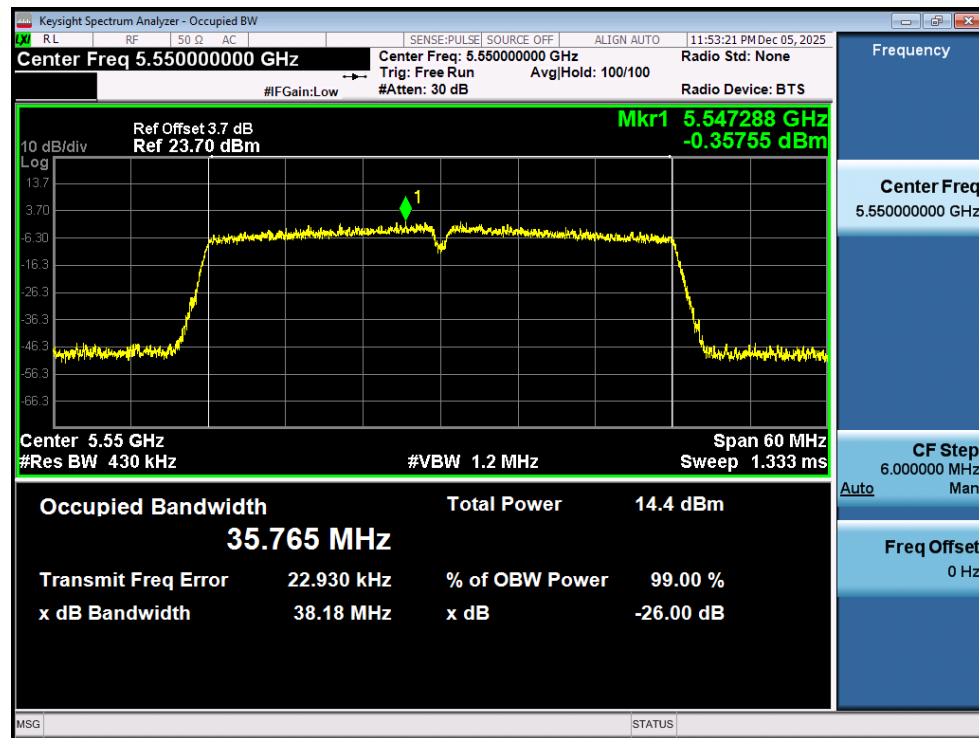
OBW NVNT n20 5700MHz Ant A



OBW NVNT n40 5510MHz Ant A



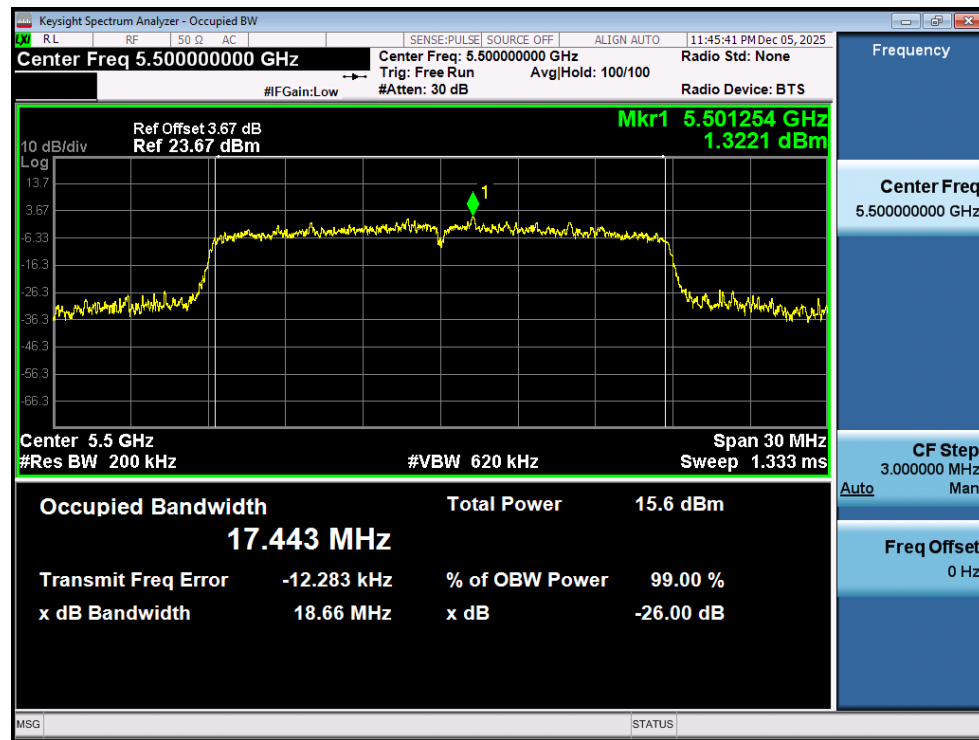
OBW NVNT n40 5550MHz Ant A



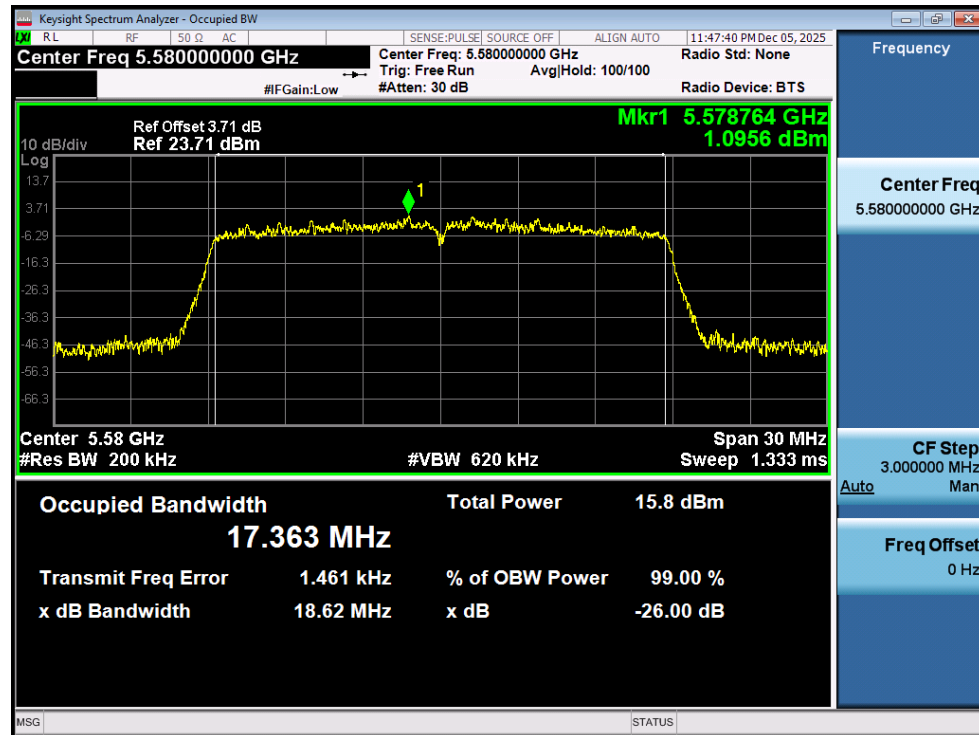
OBW NVNT n40 5670MHz Ant A



OBW NVNT ac20 5500MHz Ant A



OBW NVNT ac20 5580MHz Ant A



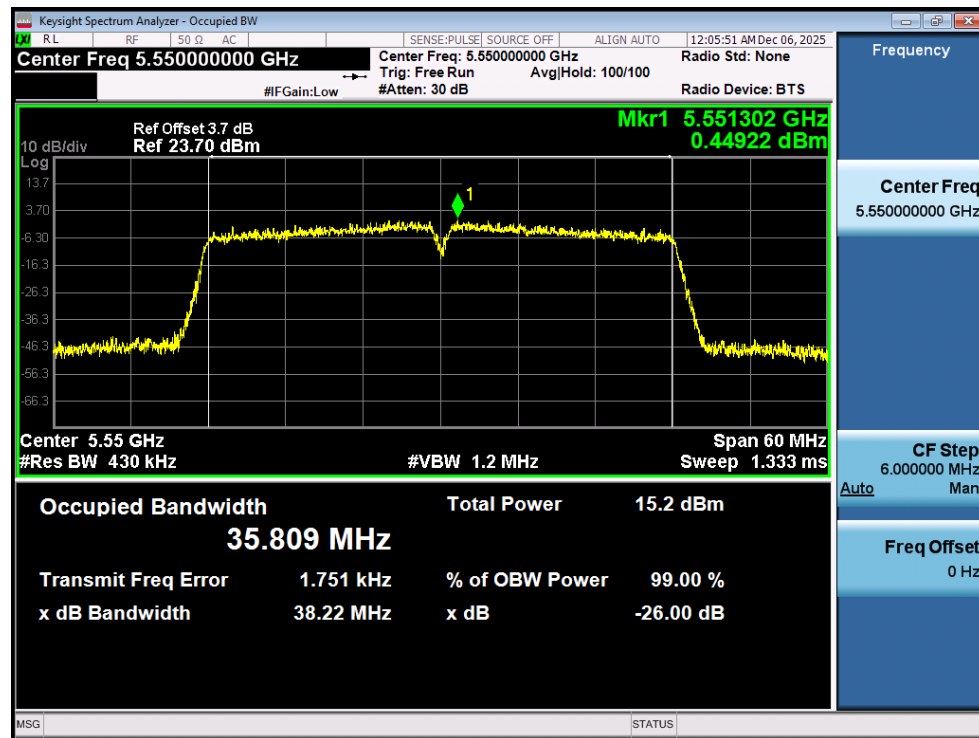
OBW NVNT ac20 5700MHz Ant A



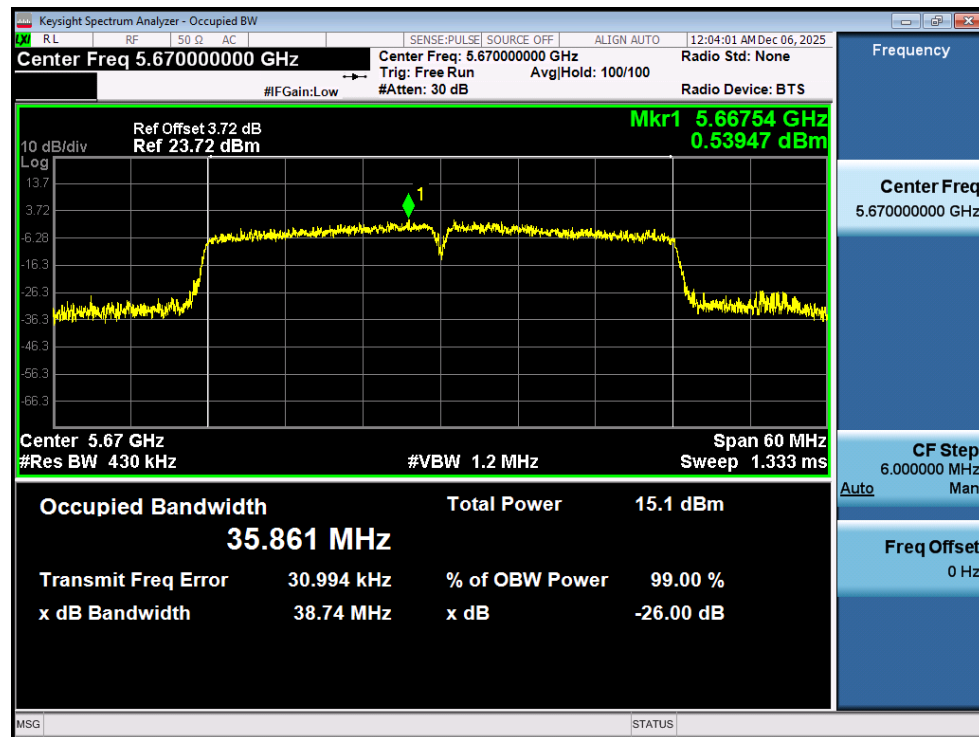
OBW NVNT ac40 5510MHz Ant A



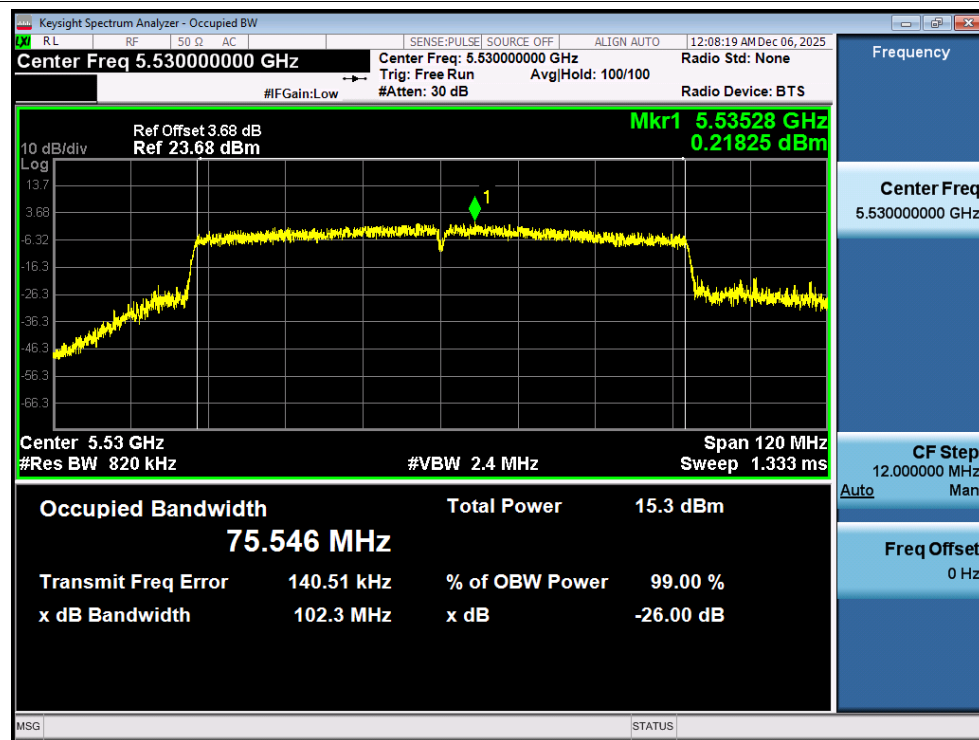
OBW NVNT ac40 5550MHz Ant A



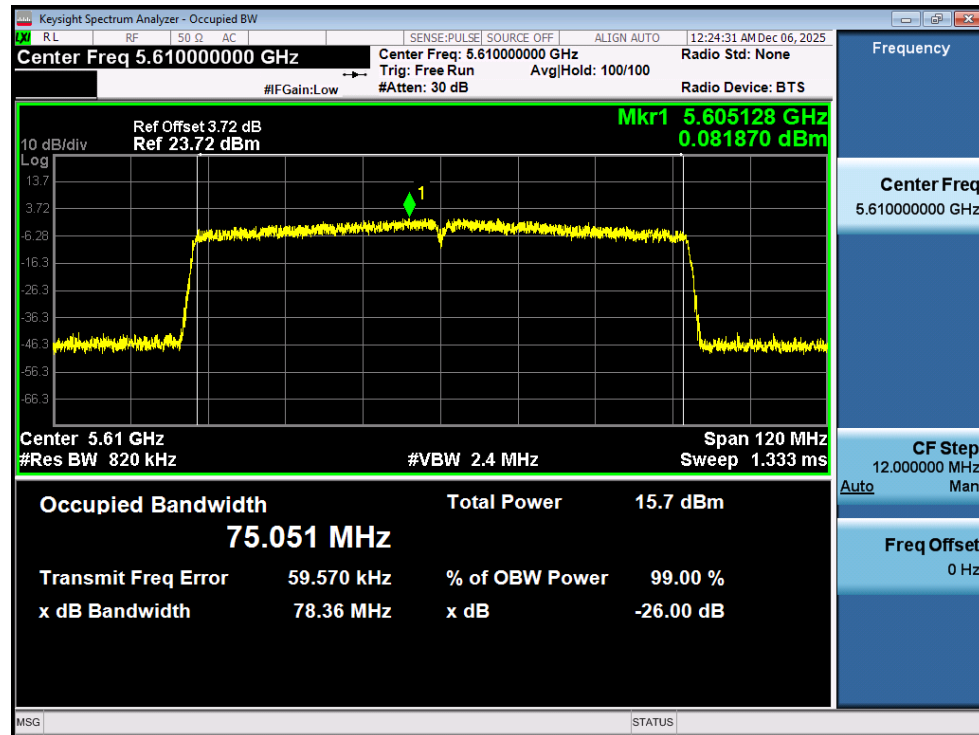
OBW NVNT ac40 5670MHz Ant A



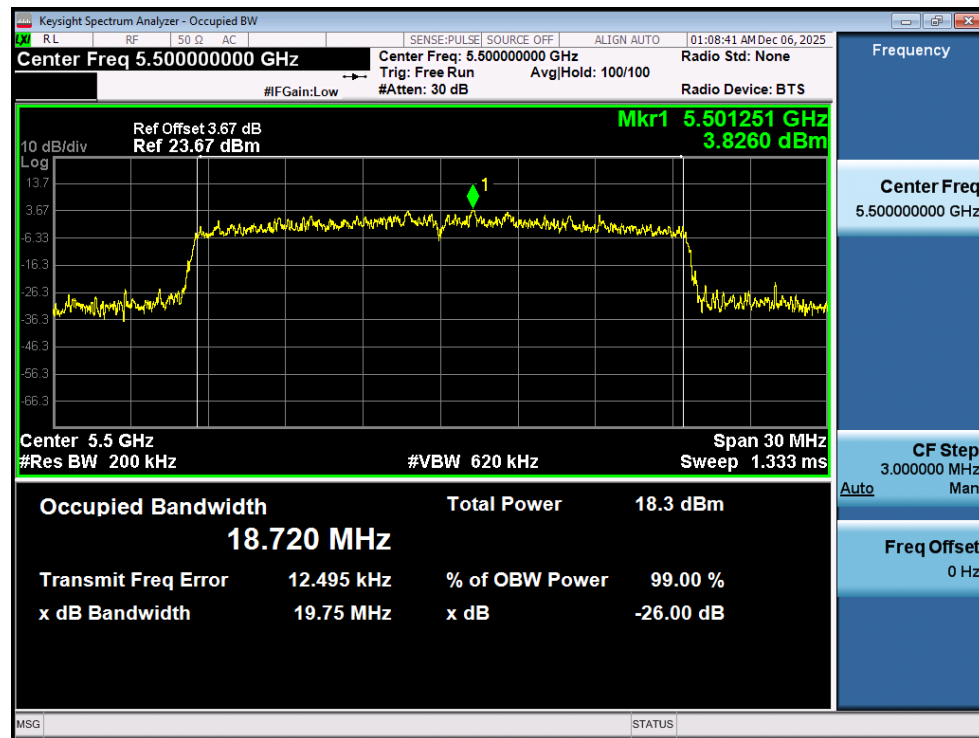
OBW NVNT ac80 5530MHz Ant A



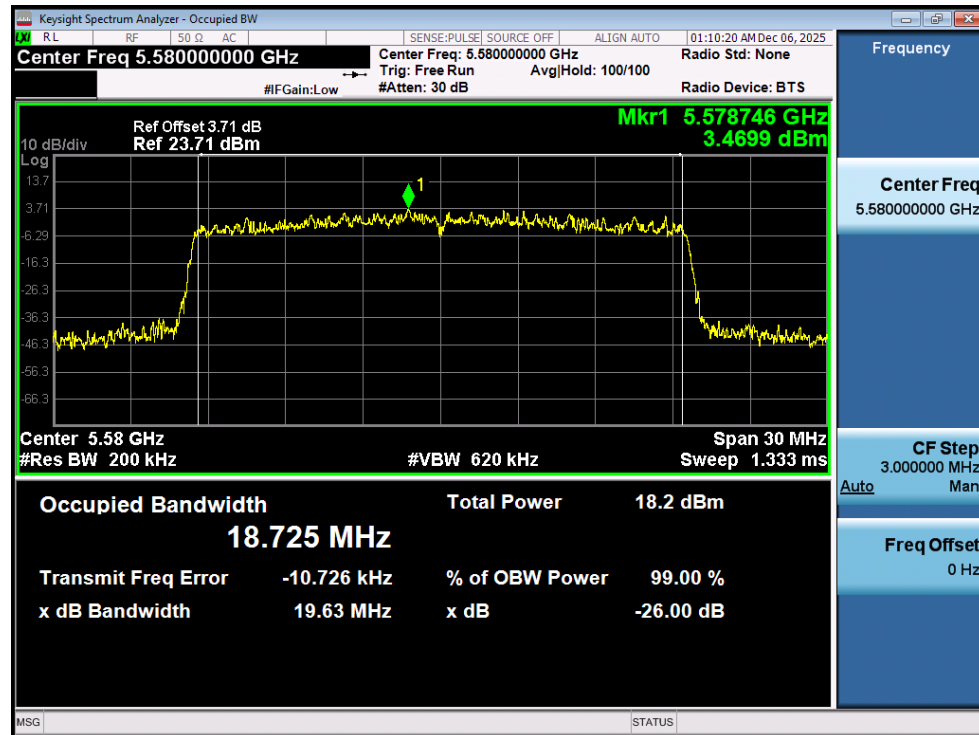
OBW NVNT ac80 5610MHz Ant A



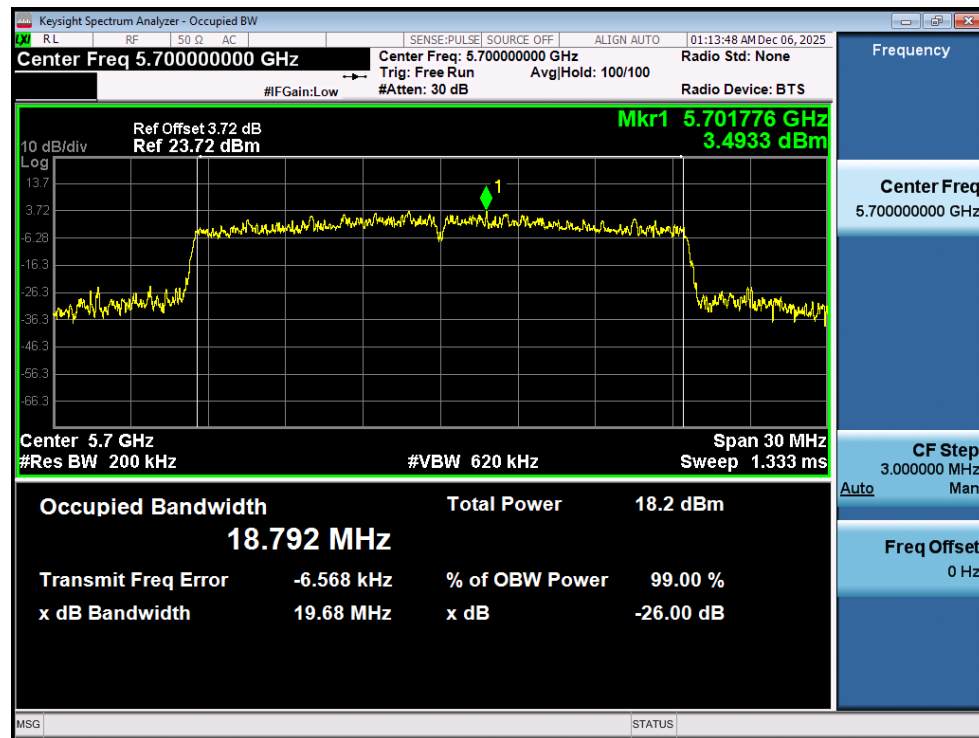
OBW NVNT ax20 5500MHz Ant A



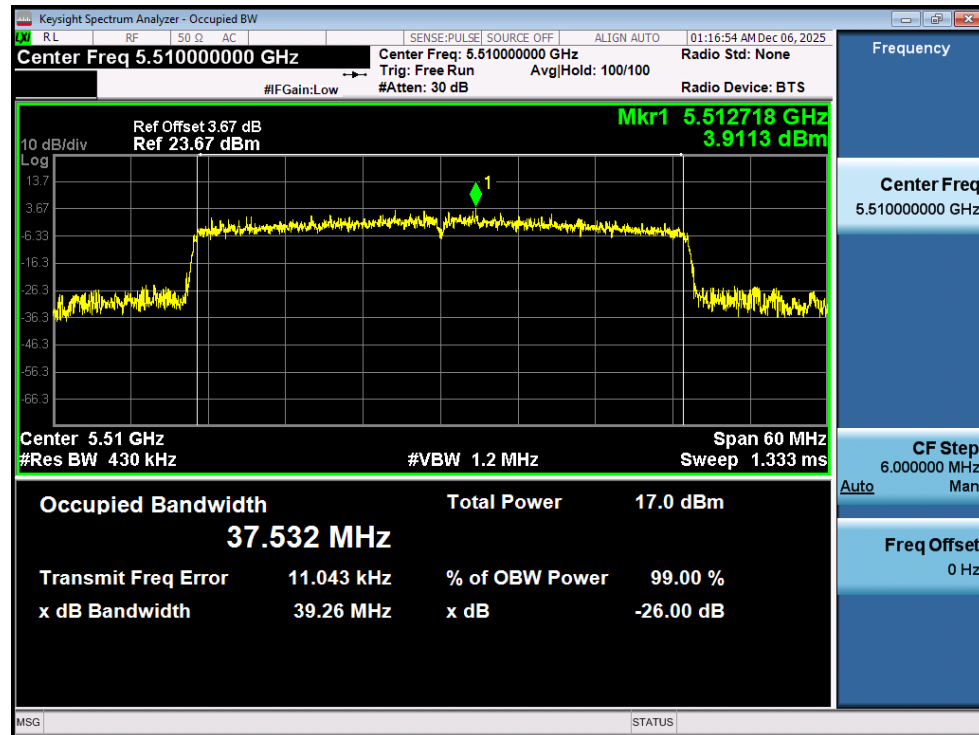
OBW NVNT ax20 5580MHz Ant A



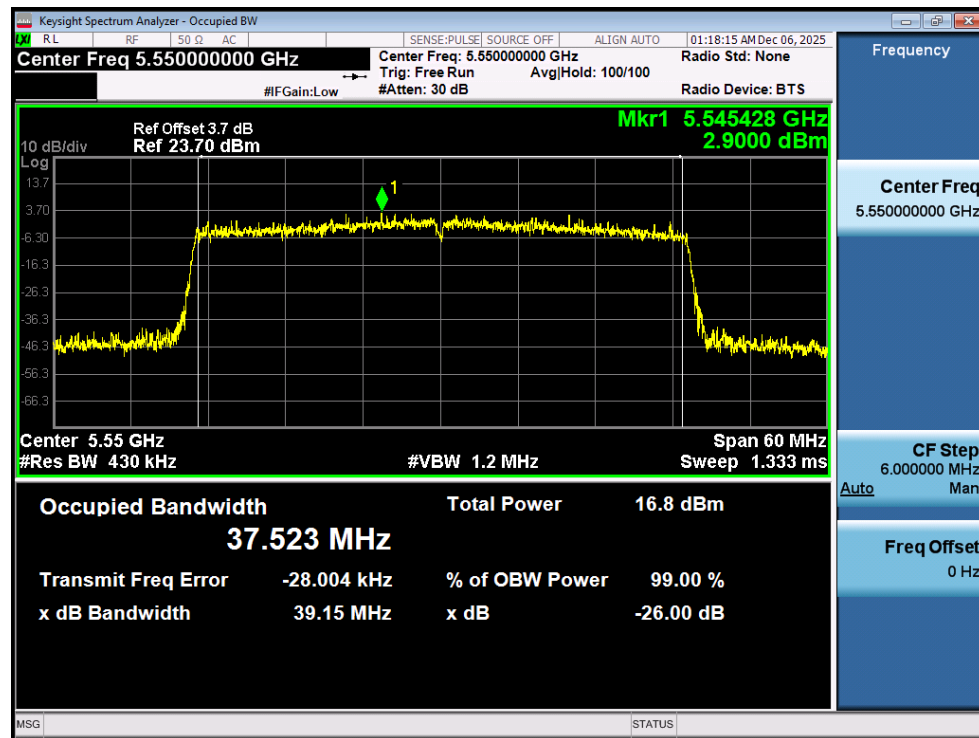
OBW NVNT ax20 5700MHz Ant A



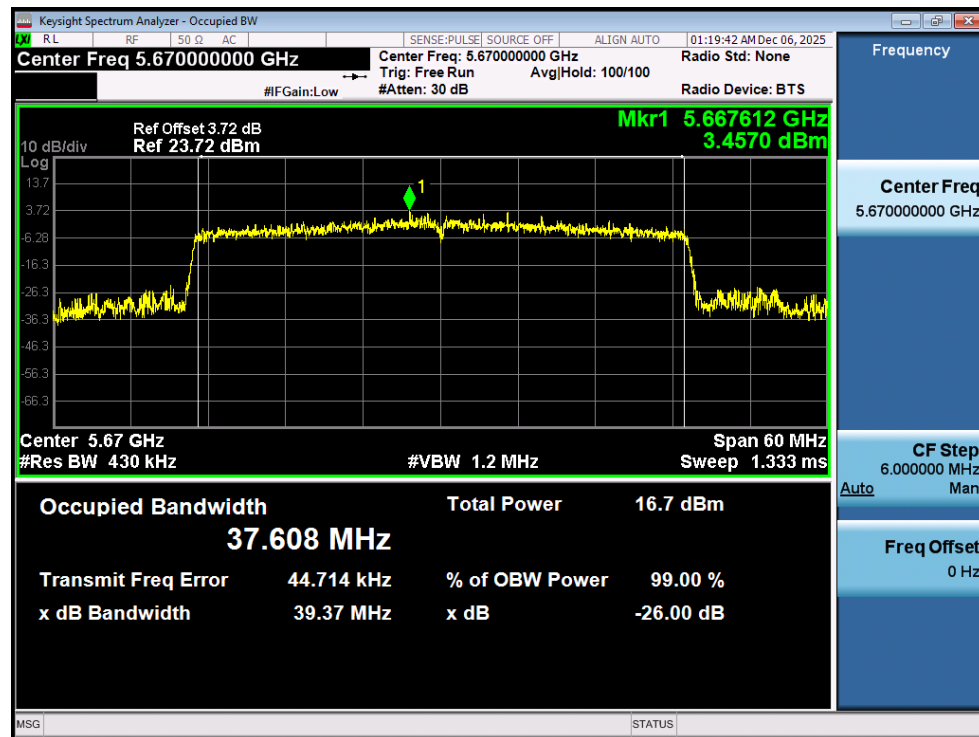
OBW NVNT ax40 5510MHz Ant A



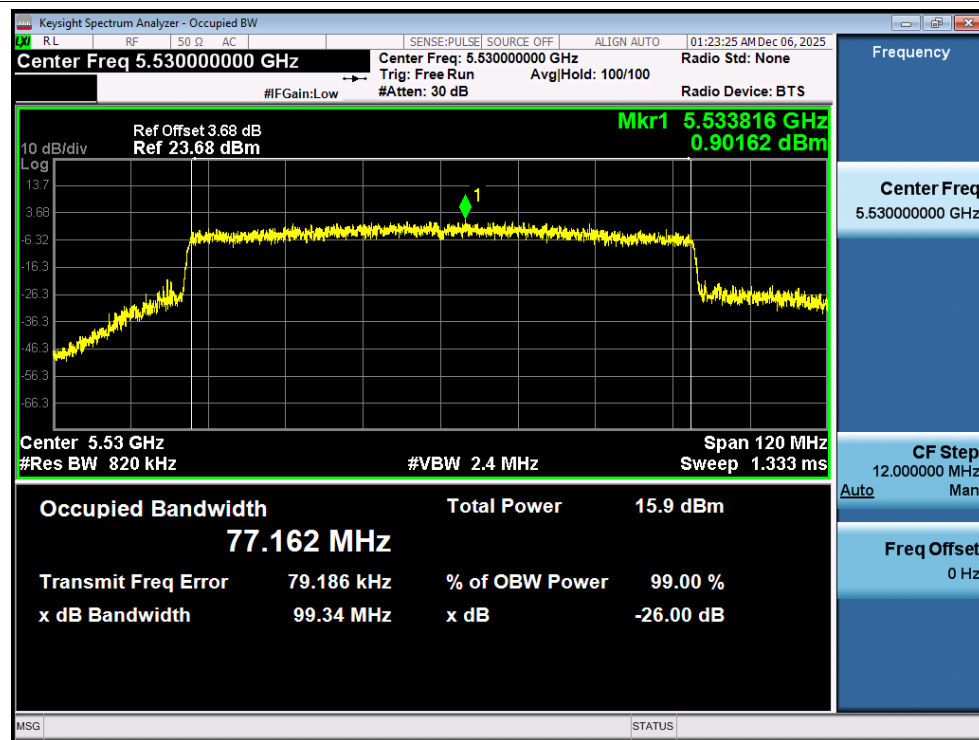
OBW NVNT ax40 5550MHz Ant A

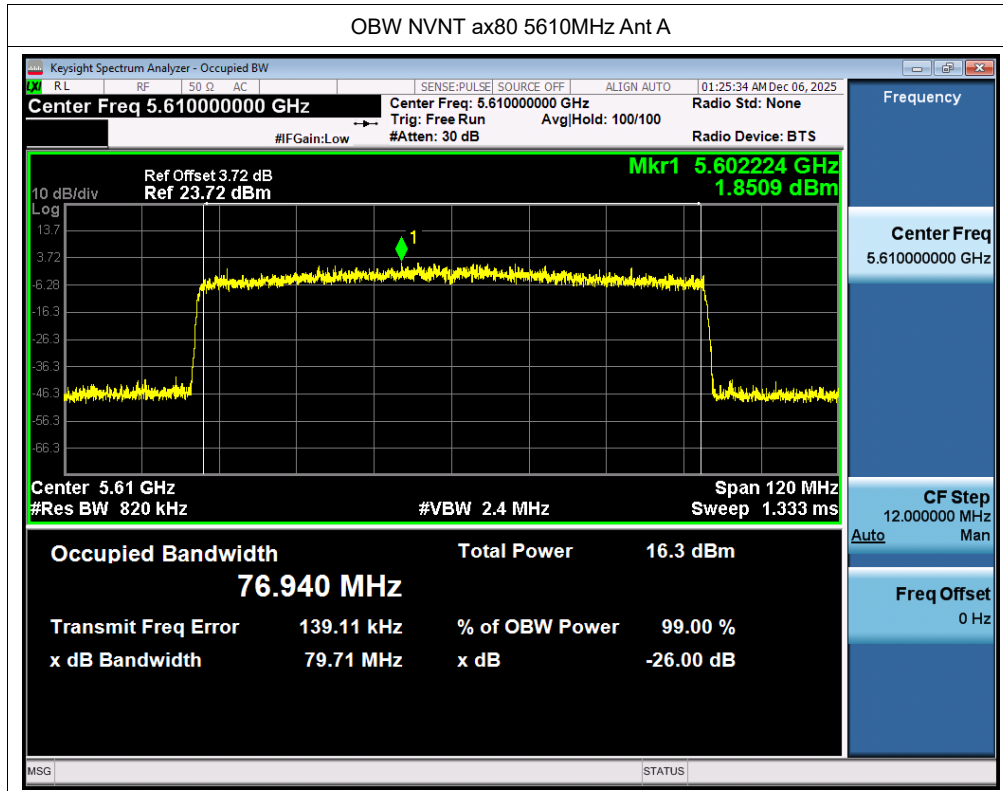


OBW NVNT ax40 5670MHz Ant A



OBW NVNT ax80 5530MHz Ant A





Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Ant A Conducted PSD (dBm)	Ant B Conducted PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	-0.06	-0.55	/	11	Pass
NVNT	a	5580	-0.19	-0.72	/	11	Pass
NVNT	a	5700	-0.35	-0.1	/	11	Pass
NVNT	n20	5500	-1.55	-1.89	1.29	10.72	Pass
NVNT	n20	5580	-1.52	-2.43	1.06	10.72	Pass
NVNT	n20	5700	-1.69	-1.63	1.35	10.72	Pass
NVNT	n40	5510	-4.21	-5.59	-1.84	10.72	Pass
NVNT	n40	5550	-5.01	-6.18	-2.55	10.72	Pass
NVNT	n40	5670	-5.85	-6.07	-2.95	10.72	Pass
NVNT	ac20	5500	-1.73	-1.67	1.31	10.72	Pass
NVNT	ac20	5580	-1.37	-1.59	1.53	10.72	Pass
NVNT	ac20	5700	-1.31	-0.92	1.90	10.72	Pass
NVNT	ac40	5510	-5	-6.41	-2.64	10.72	Pass
NVNT	ac40	5550	-5.34	-5.77	-2.54	10.72	Pass
NVNT	ac40	5670	-5.43	-6	-2.70	10.72	Pass
NVNT	ac80	5530	-10.11	-10.14	-7.11	10.72	Pass
NVNT	ac80	5610	-9.74	-10.24	-6.97	10.72	Pass
NVNT	ax20	5500	-0.85	-0.19	2.50	10.72	Pass
NVNT	ax20	5580	-1.11	-1.72	1.61	10.72	Pass
NVNT	ax20	5700	-0.71	-0.91	2.20	10.72	Pass
NVNT	ax40	5510	-5.51	-5.61	-2.55	10.72	Pass
NVNT	ax40	5550	-5.07	-5.9	-2.45	10.72	Pass
NVNT	ax40	5670	-5.25	-5.89	-2.55	10.72	Pass
NVNT	ax80	5530	-9.8	-9.94	-6.86	10.72	Pass
NVNT	ax80	5610	-9.83	-9.73	-6.77	10.72	Pass

Note:

Antenna A gain: 3.05 dBi, Antenna B gain: 3.27dBi

For power spectral density(PSD) measurements,

Array Gain= $10\log(\text{NANT}/\text{NSS})\text{dB}=10\log(2/1)=3.01$ dBi,

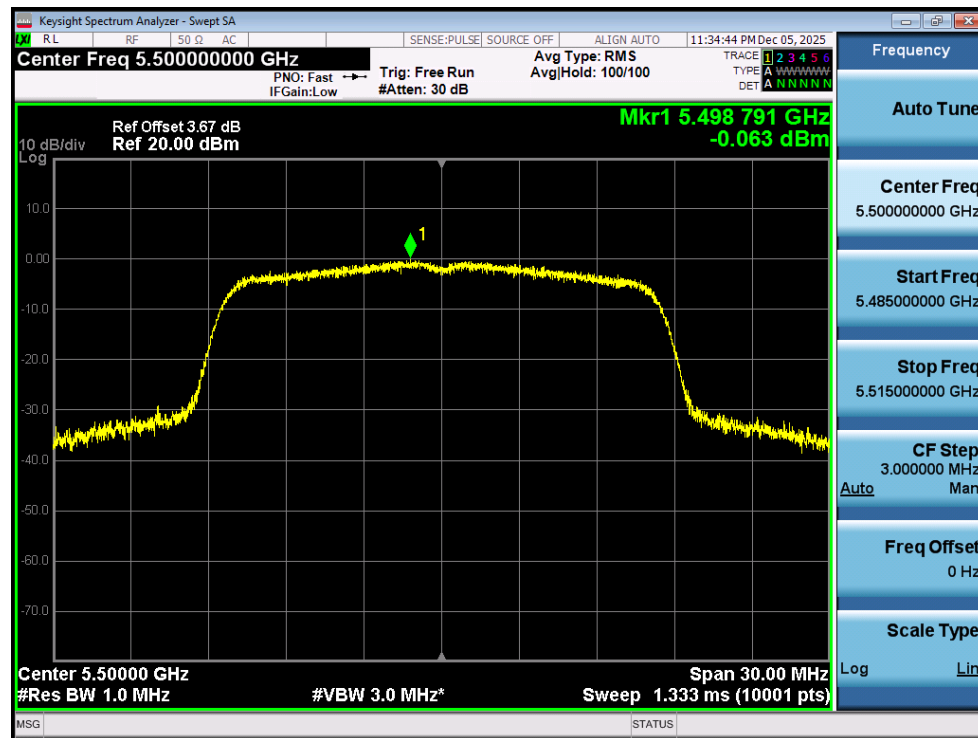
So the directional gain for PSD is 6.28 dBi >6dbi

Limit= $11-(6.28-6)=10.72$ dbm

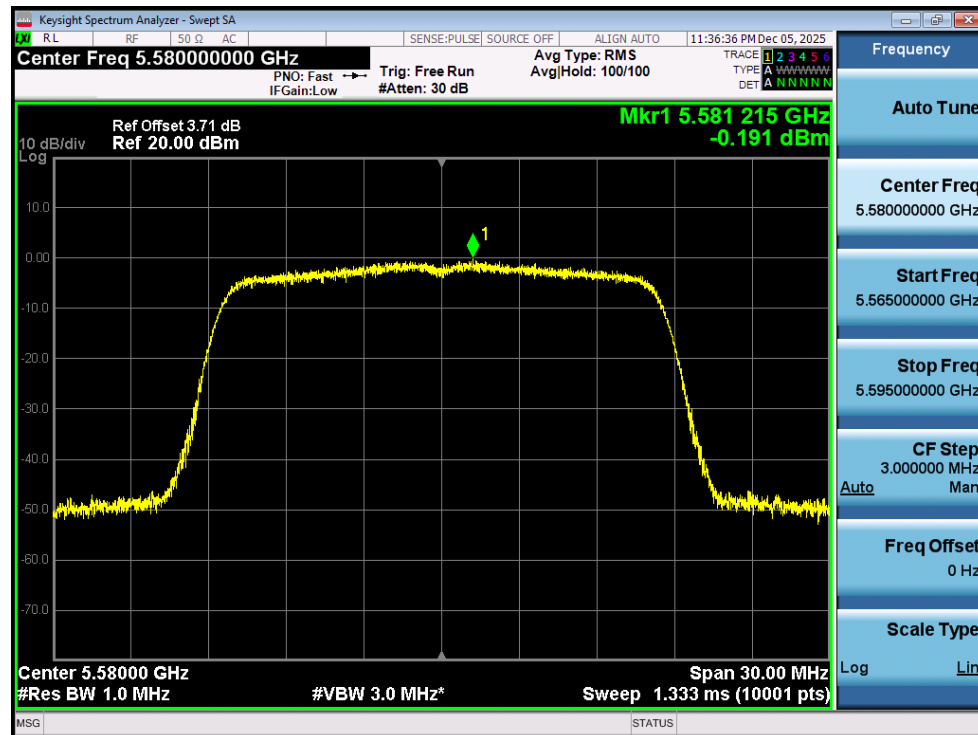
Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

Test Graphs

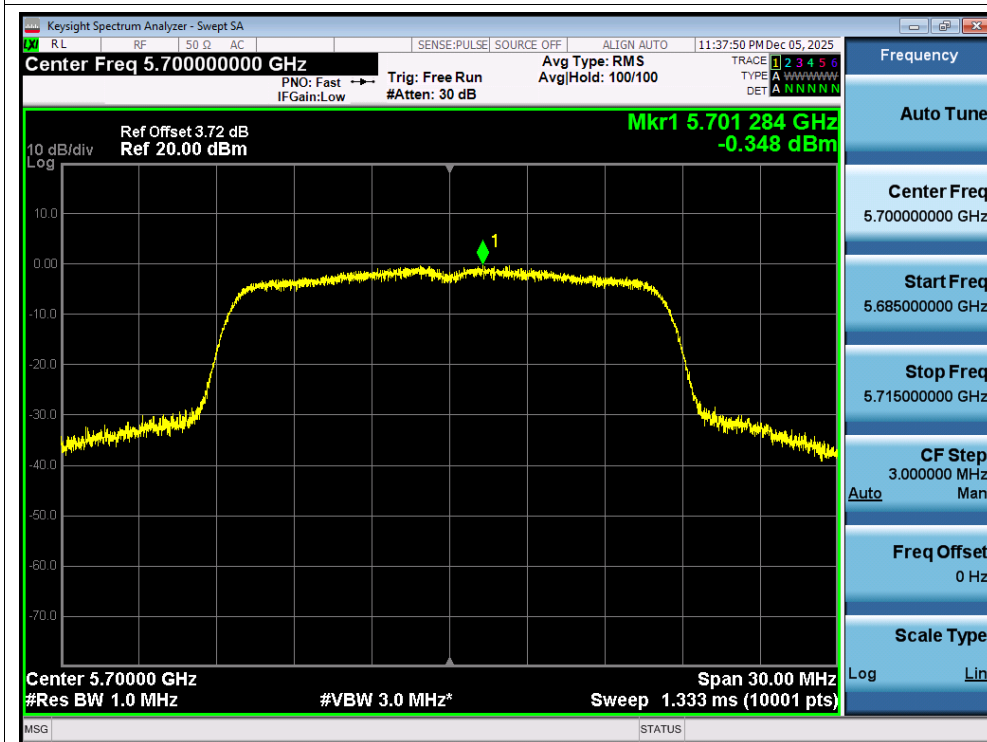
PSD NVNT a 5500MHz Ant A



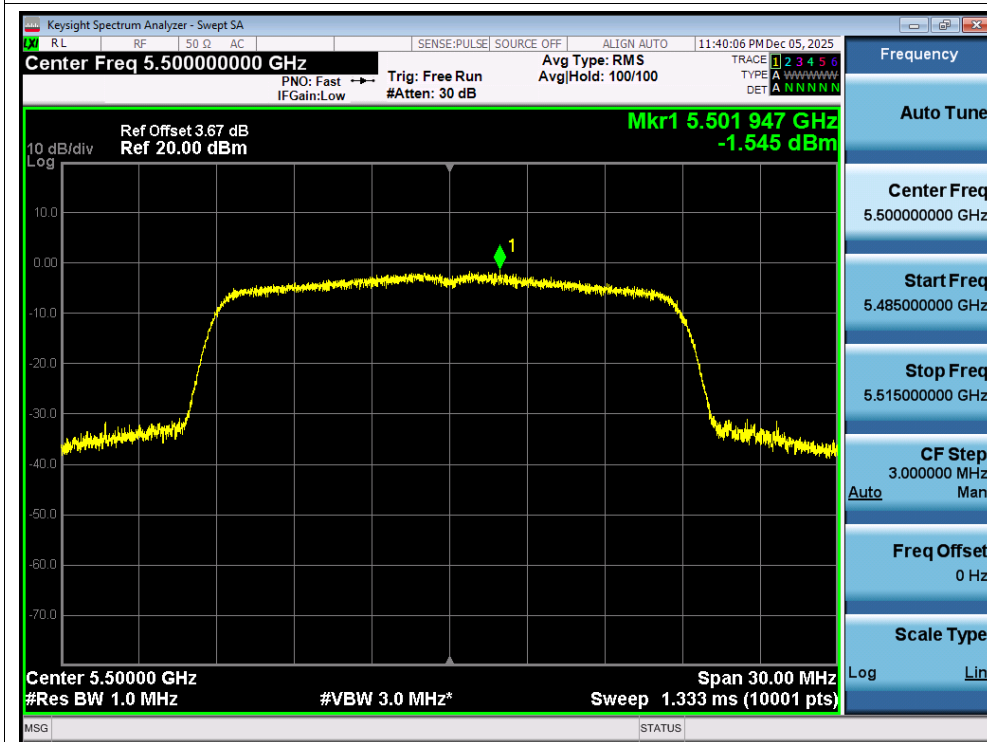
PSD NVNT a 5580MHz Ant A



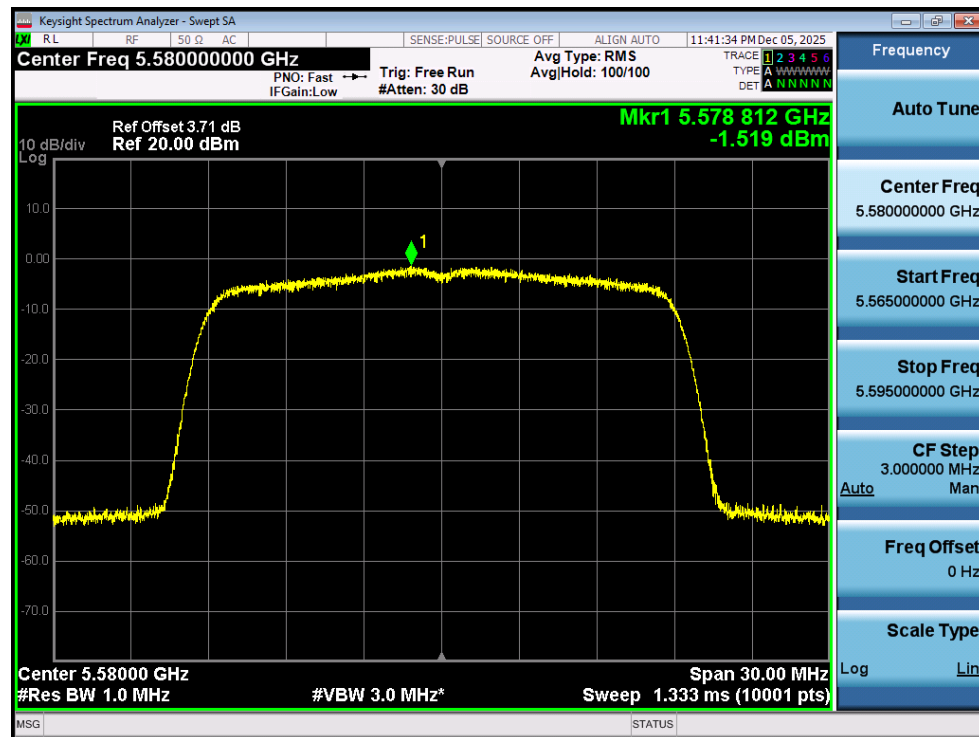
PSD NVNT a 5700MHz Ant A



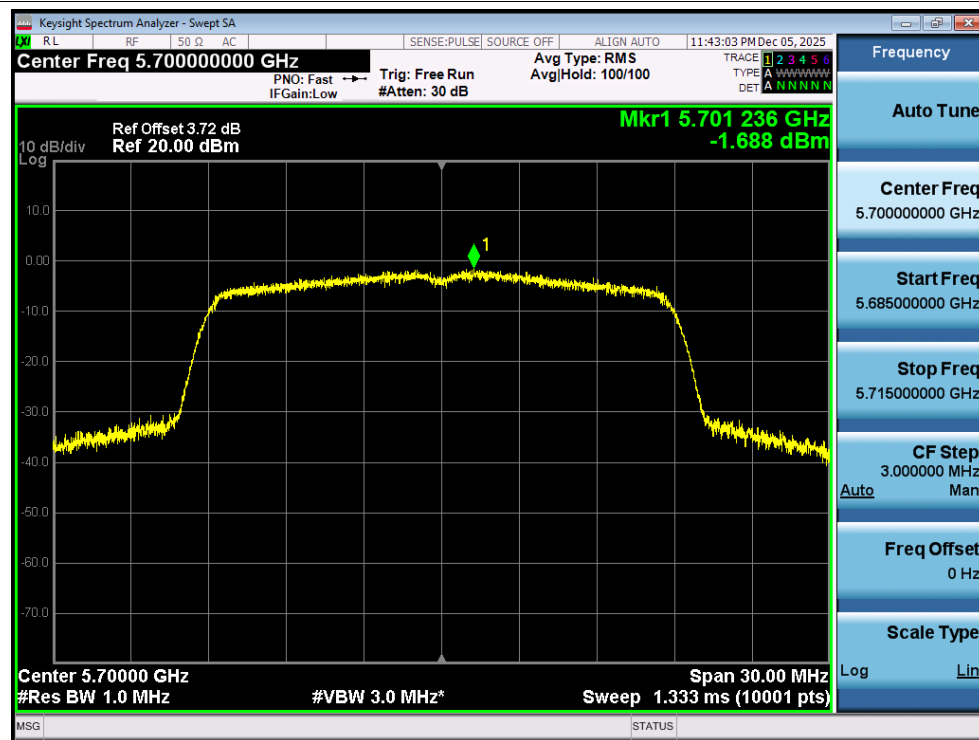
PSD NVNT n20 5500MHz Ant A



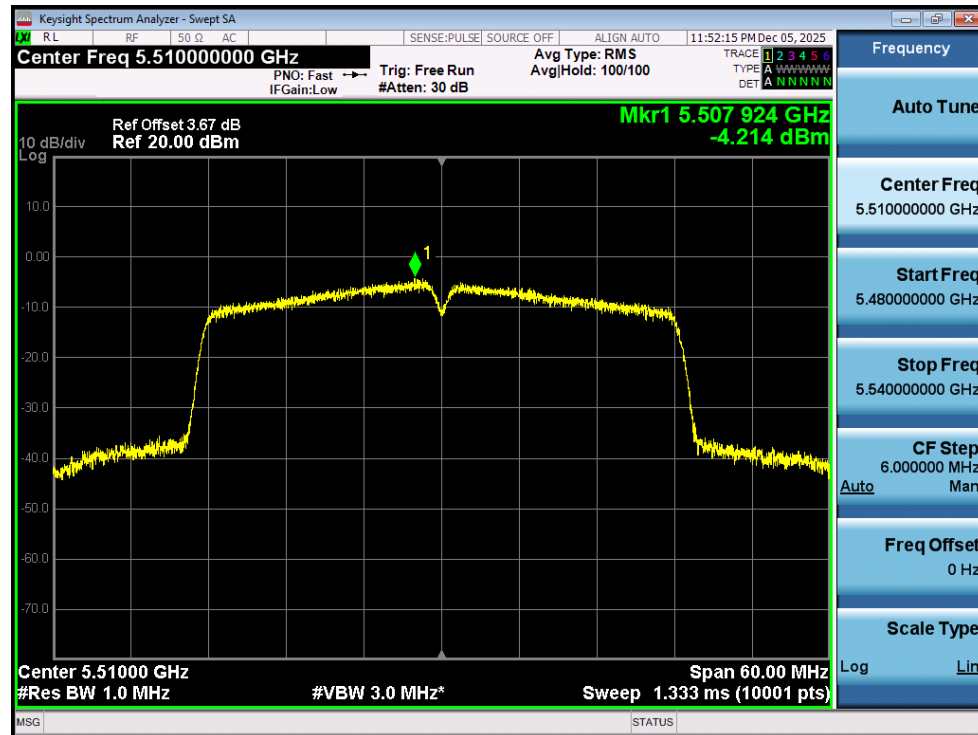
PSD NVNT n20 5580MHz Ant A



PSD NVNT n20 5700MHz Ant A



PSD NVNT n40 5510MHz Ant A



PSD NVNT n40 5550MHz Ant A

