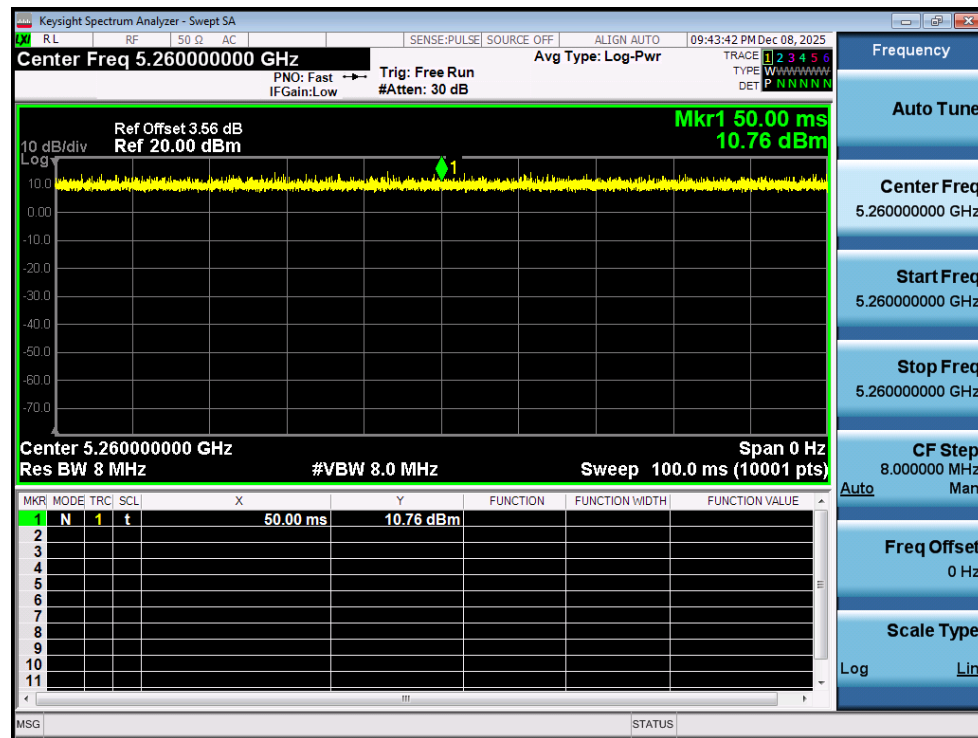


Duty Cycle

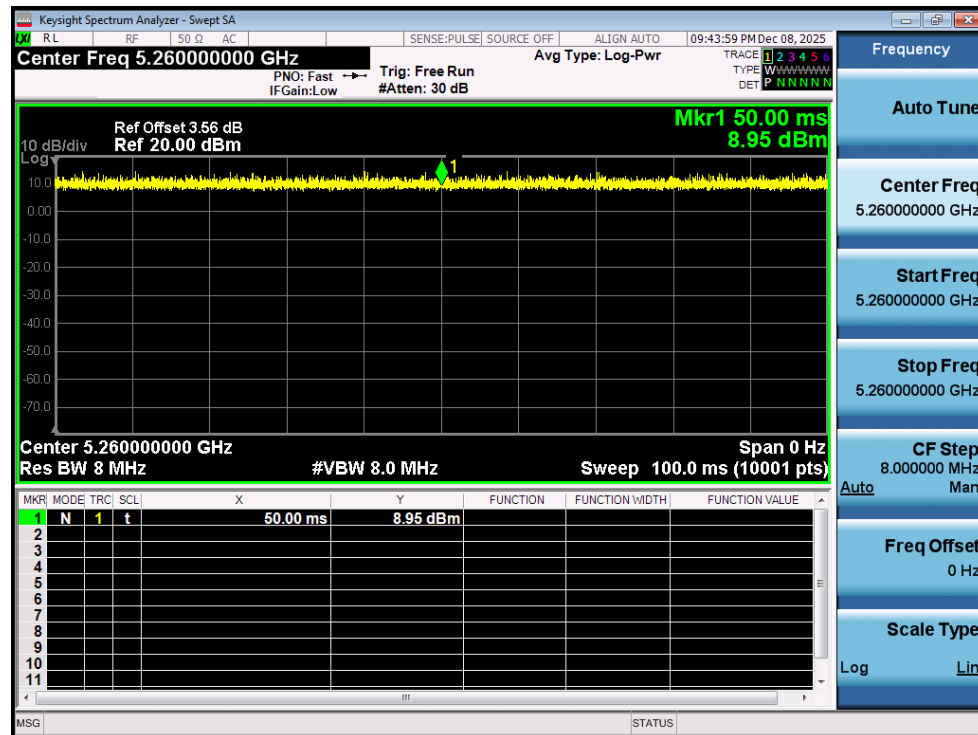
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant A	100	0
NVNT	n20	5260	Ant A	100	0
NVNT	n40	5270	Ant A	100	0
NVNT	ac20	5260	Ant A	100	0
NVNT	ac40	5270	Ant A	100	0
NVNT	ac80	5290	Ant A	100	0
NVNT	ax20	5260	Ant A	100	0
NVNT	ax40	5270	Ant A	100	0
NVNT	ax80	5290	Ant A	100	0

Test Graphs

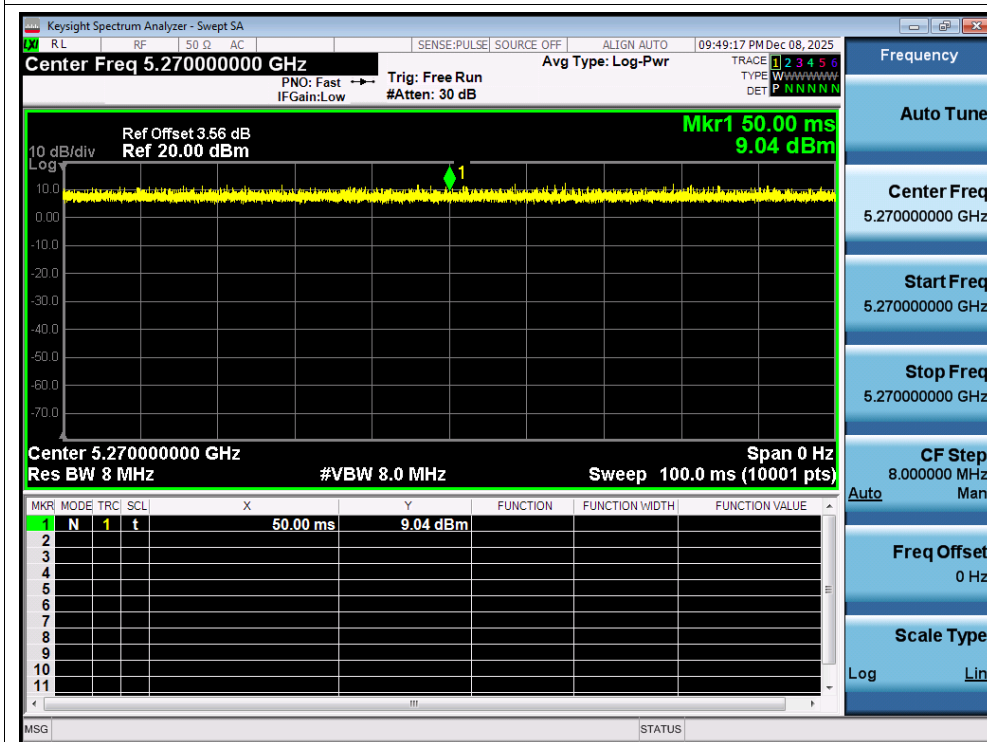
Duty Cycle NVNT a 5260MHz Ant A



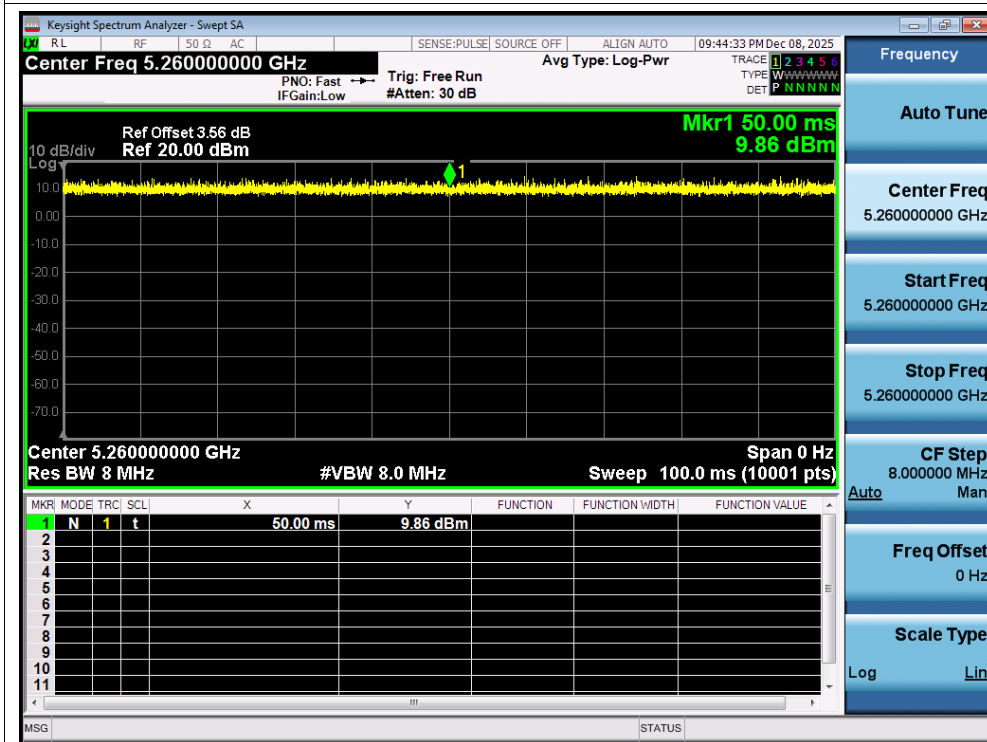
Duty Cycle NVNT n20 5260MHz Ant A



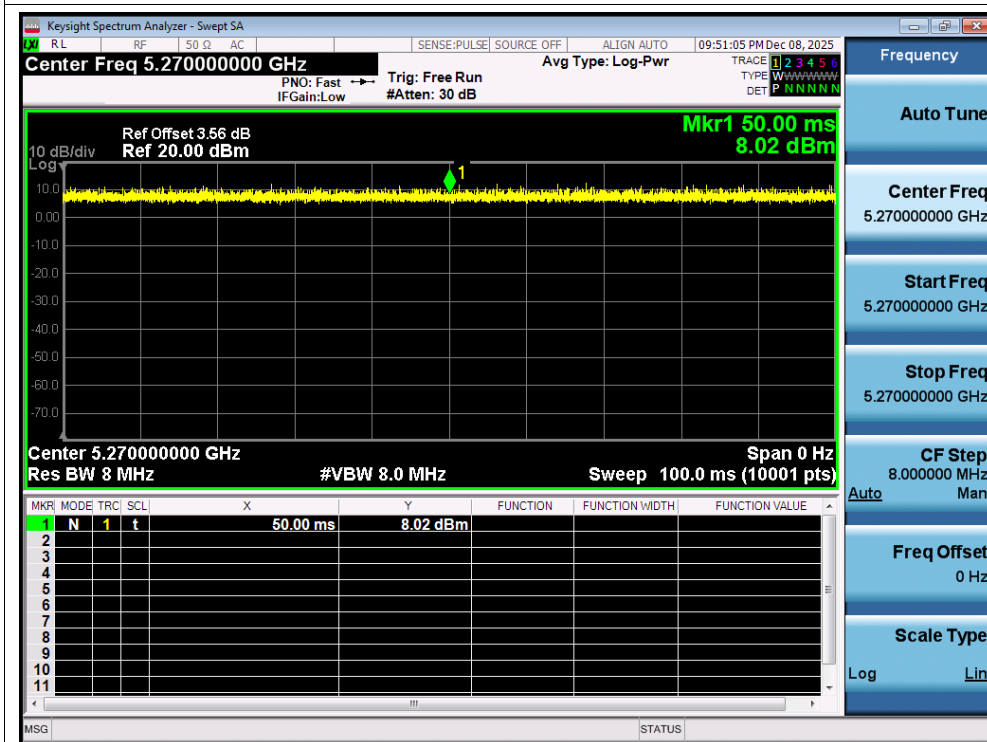
Duty Cycle NVNT n40 5270MHz Ant A



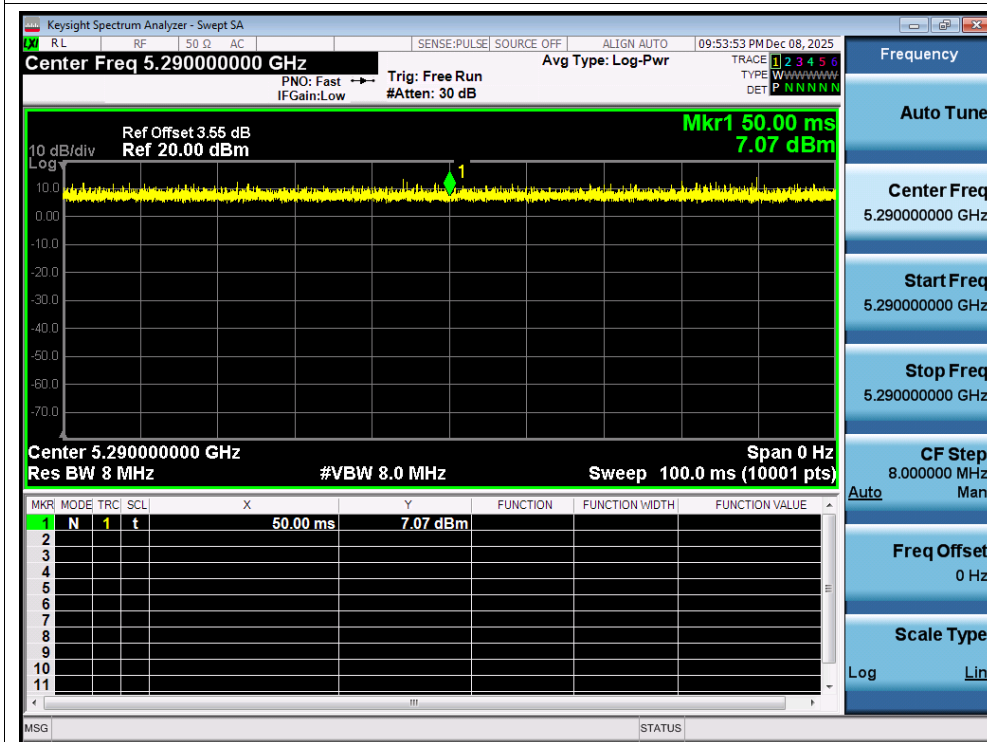
Duty Cycle NVNT ac20 5260MHz Ant A



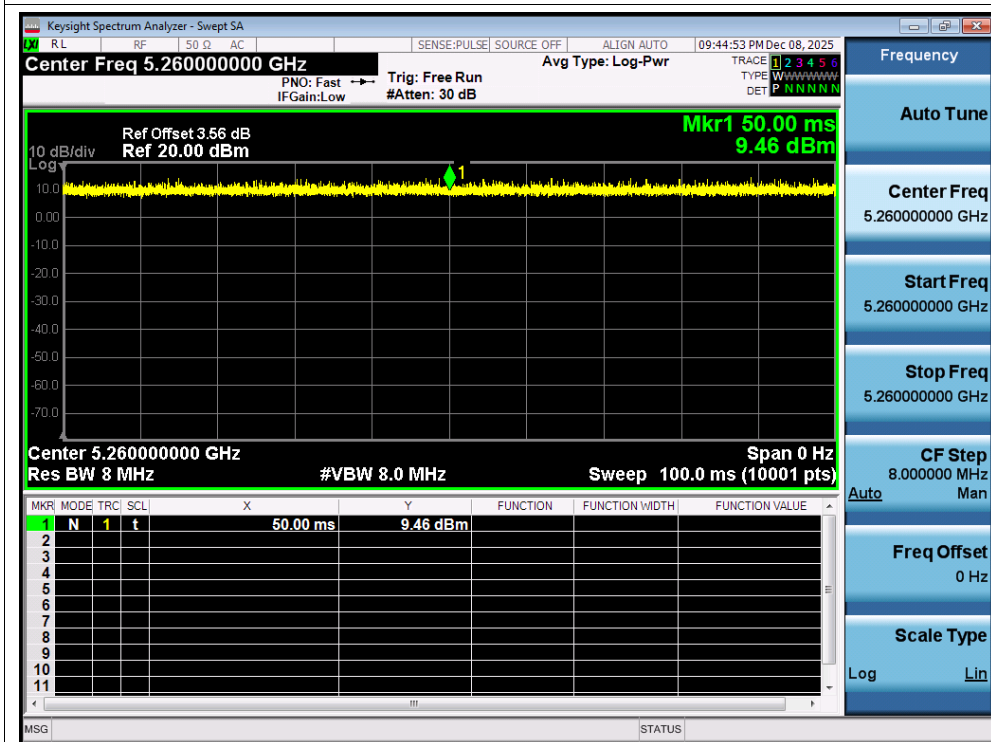
Duty Cycle NVNT ac40 5270MHz Ant A



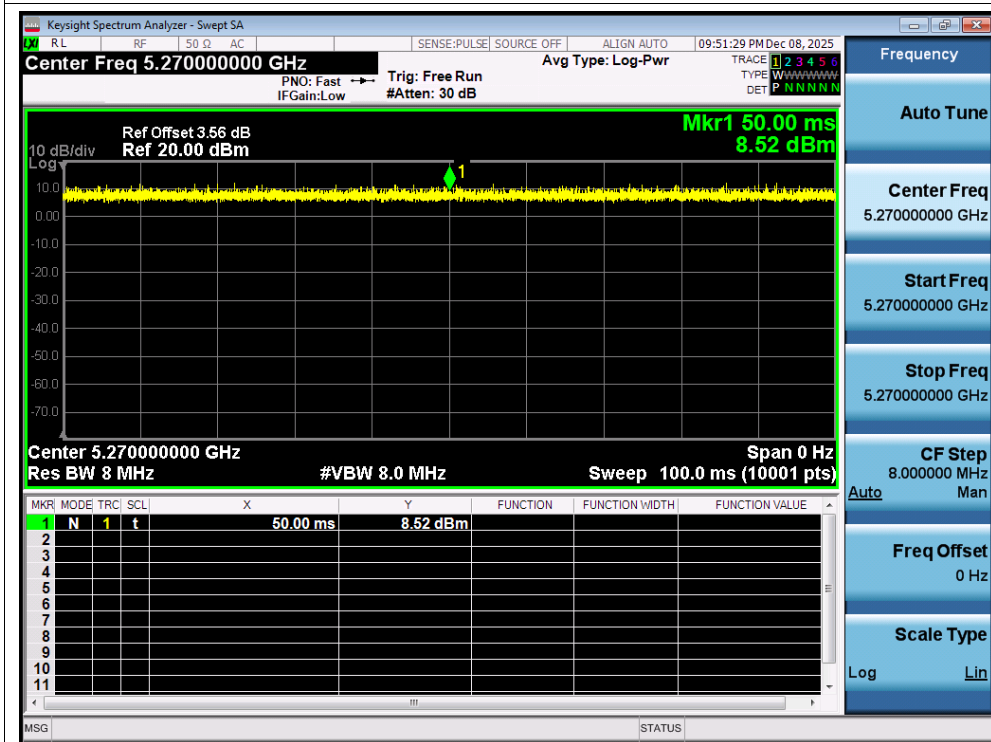
Duty Cycle NVNT ac80 5290MHz Ant A



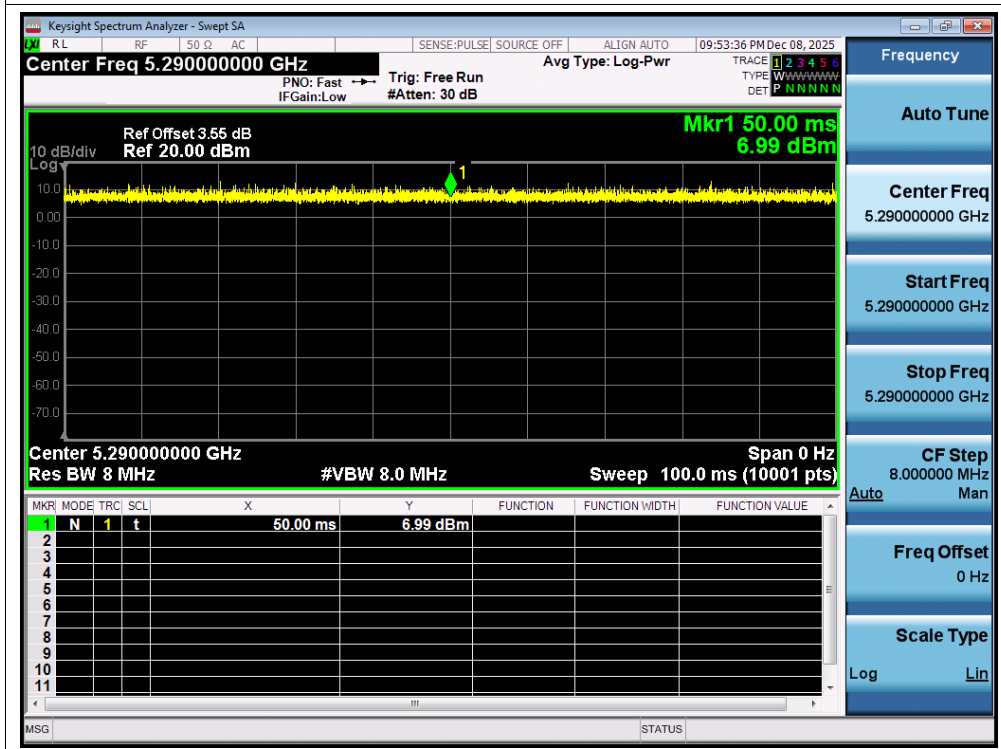
Duty Cycle NVNT ax20 5260MHz Ant A



Duty Cycle NVNT ax40 5270MHz Ant A



Duty Cycle NVNT ax80 5290MHz Ant A



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant A	11.21	24	Pass
NVNT	a	5280	Ant A	11.15	24	Pass
NVNT	a	5320	Ant A	11.24	24	Pass
NVNT	n20	5260	Ant A	9.05	24	Pass
NVNT	n20	5280	Ant A	10.57	24	Pass
NVNT	n20	5320	Ant A	10.19	24	Pass
NVNT	n40	5270	Ant A	9.1	24	Pass
NVNT	n40	5310	Ant A	9.4	24	Pass
NVNT	ac20	5260	Ant A	10.12	24	Pass
NVNT	ac20	5280	Ant A	10.34	24	Pass
NVNT	ac20	5320	Ant A	10.04	24	Pass
NVNT	ac40	5270	Ant A	8.55	24	Pass
NVNT	ac40	5310	Ant A	8.98	24	Pass
NVNT	ac80	5290	Ant A	7.68	24	Pass
NVNT	ax20	5260	Ant A	9.62	24	Pass
NVNT	ax20	5280	Ant A	10.01	24	Pass
NVNT	ax20	5320	Ant A	9.24	24	Pass
NVNT	ax40	5270	Ant A	8.56	24	Pass
NVNT	ax40	5310	Ant A	8.3	24	Pass
NVNT	ax80	5290	Ant A	7.13	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	5260	11.21	11.28	/	24	Pass
NVNT	a	5280	11.15	11.68	/	24	Pass
NVNT	a	5320	11.24	11.31	/	24	Pass
NVNT	n20	5260	9.05	9.25	12.16	24	Pass
NVNT	n20	5280	10.57	11.22	13.92	24	Pass
NVNT	n20	5320	10.19	10.31	13.26	24	Pass
NVNT	n40	5270	9.1	9.75	12.45	24	Pass
NVNT	n40	5310	9.4	8.89	12.16	24	Pass
NVNT	ac20	5260	10.12	10.55	13.35	24	Pass
NVNT	ac20	5280	10.34	10.7	13.53	24	Pass
NVNT	ac20	5320	10.04	10.48	13.28	24	Pass
NVNT	ac40	5270	8.55	8.86	11.72	24	Pass
NVNT	ac40	5310	8.98	9.23	12.12	24	Pass
NVNT	ac80	5290	7.68	7.6	10.65	24	Pass
NVNT	ax20	5260	9.62	9.71	12.68	24	Pass
NVNT	ax20	5280	10.01	10.12	13.08	24	Pass
NVNT	ax20	5320	9.24	9.67	12.47	24	Pass
NVNT	ax40	5270	8.56	8.83	11.71	24	Pass
NVNT	ax40	5310	8.3	8.66	11.49	24	Pass
NVNT	ax80	5290	7.13	7.09	10.12	24	Pass

Note:

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

For power measurements,

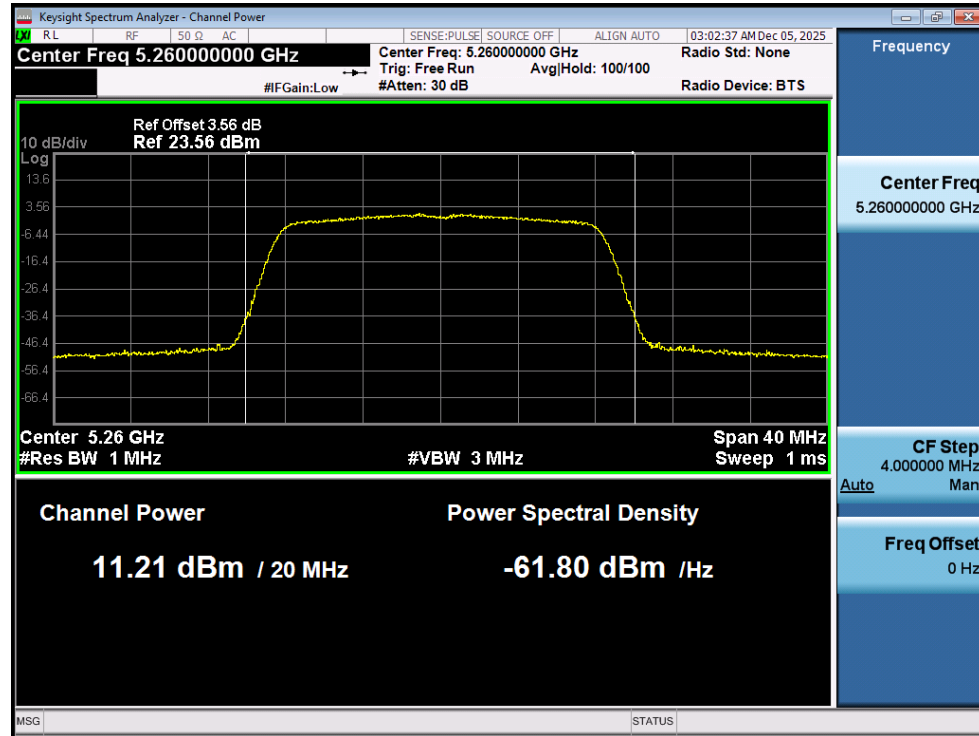
The Array gain=0 for NANT≤4,

So the directional gain for Power measurements is 3.27 dBi

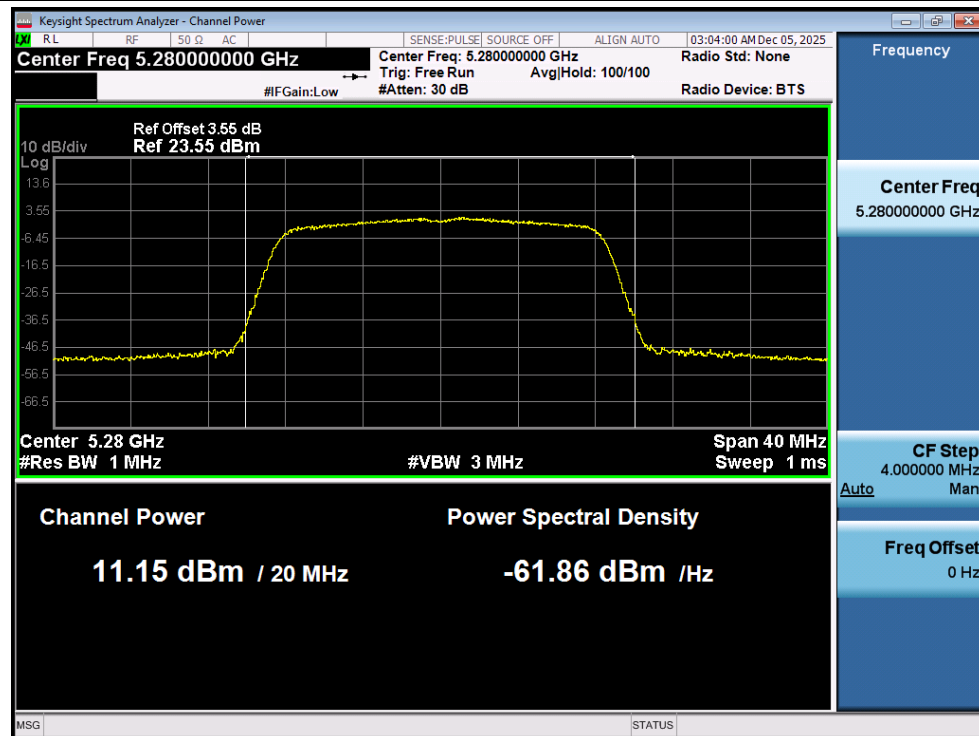
Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

Test Graphs

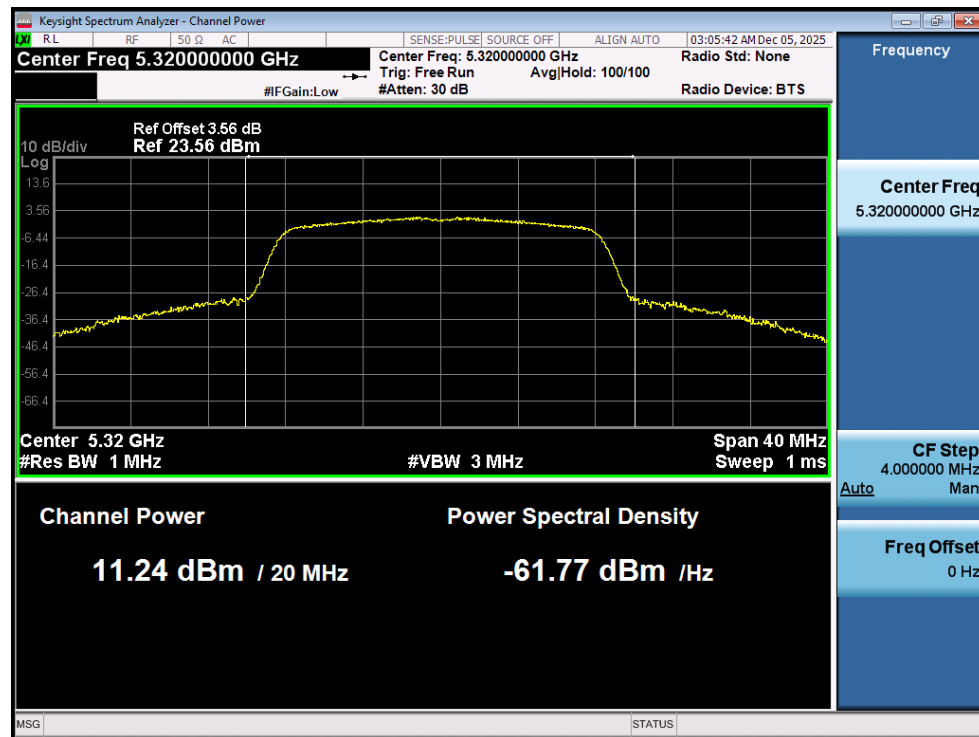
Power NVNT a 5260MHz Ant A



Power NVNT a 5280MHz Ant A



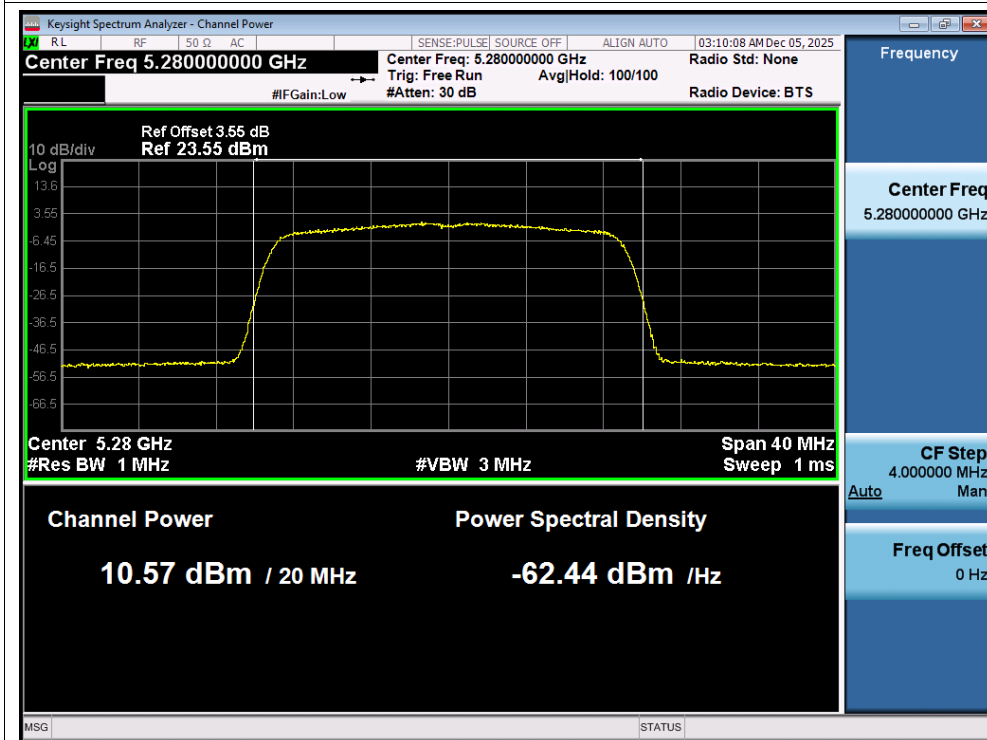
Power NVNT a 5320MHz Ant A



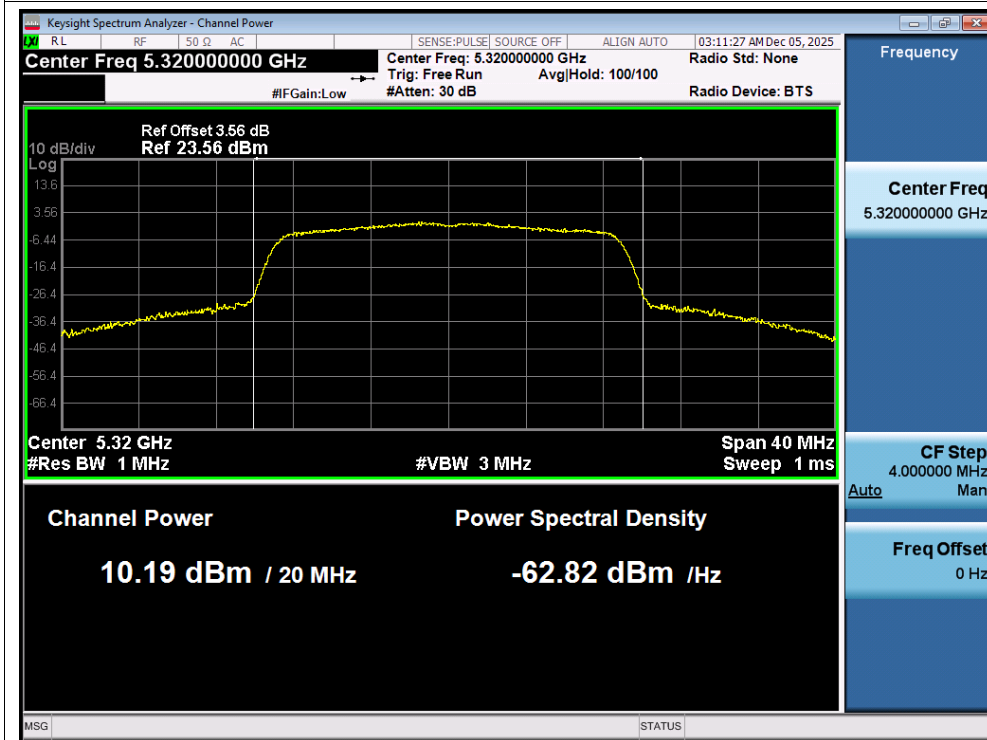
Power NVNT n20 5260MHz Ant A



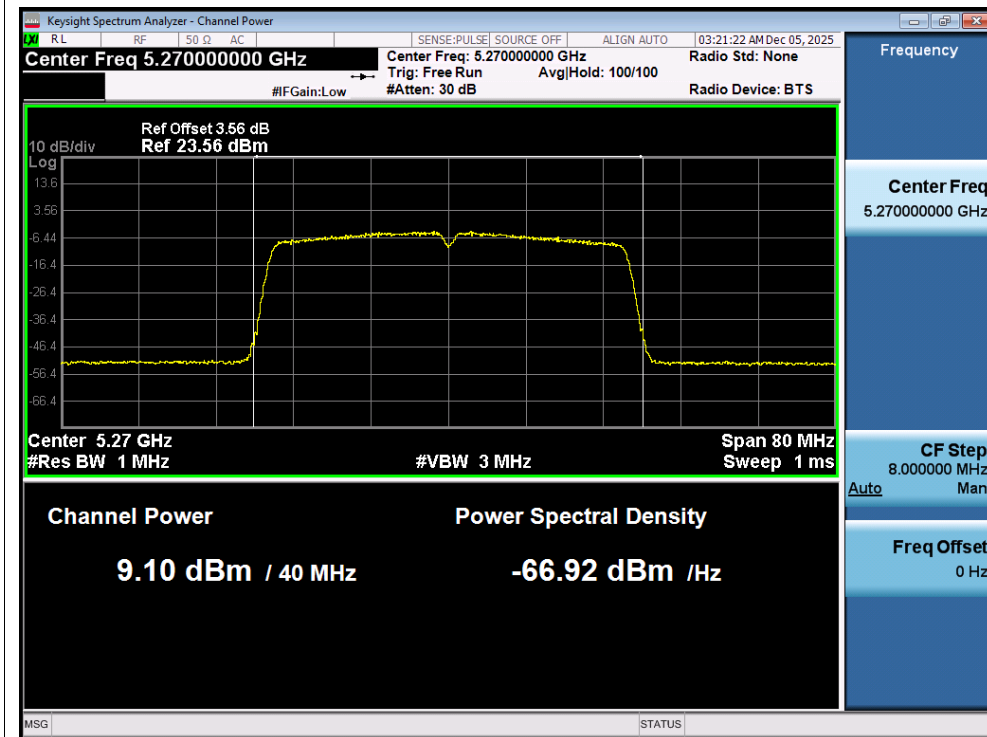
Power NVNT n20 5280MHz Ant A



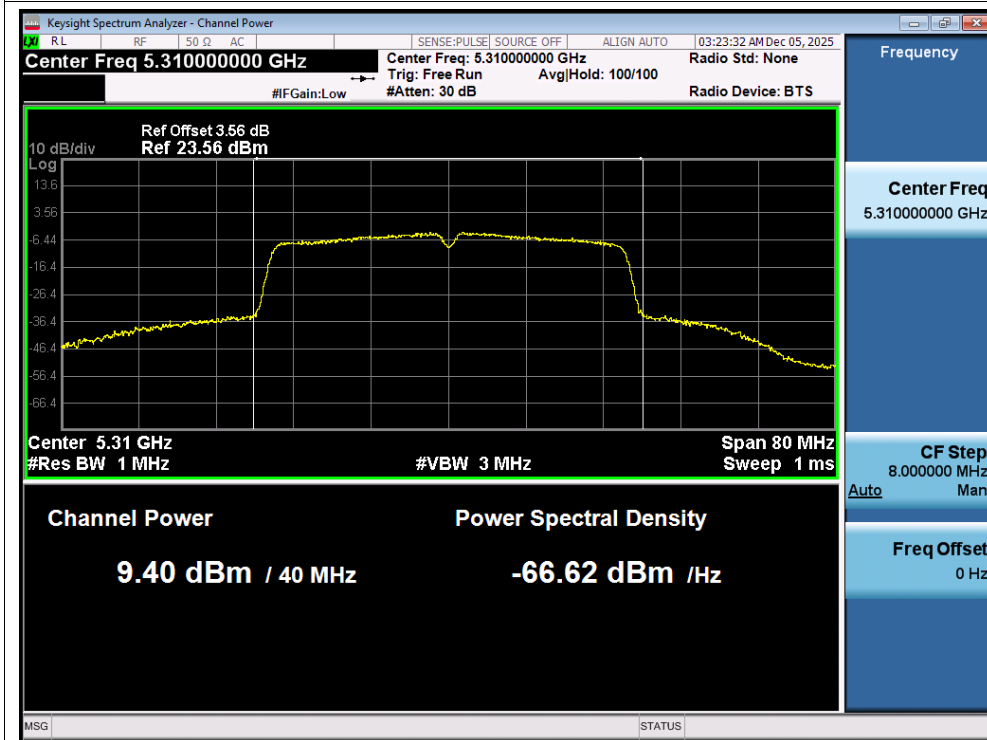
Power NVNT n20 5320MHz Ant A



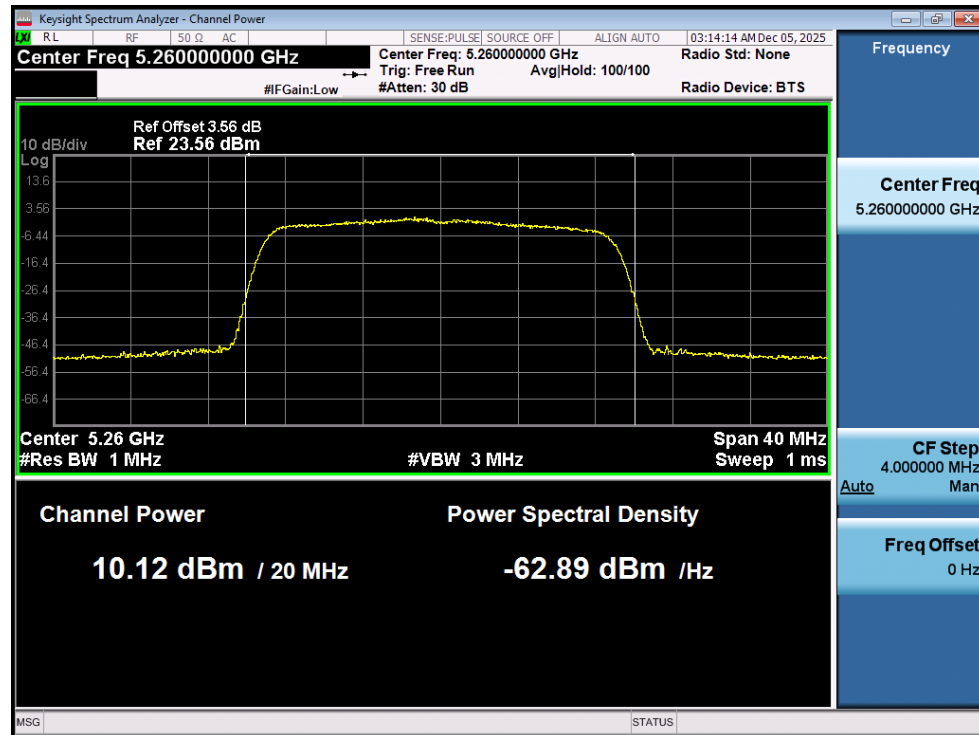
Power NVNT n40 5270MHz Ant A



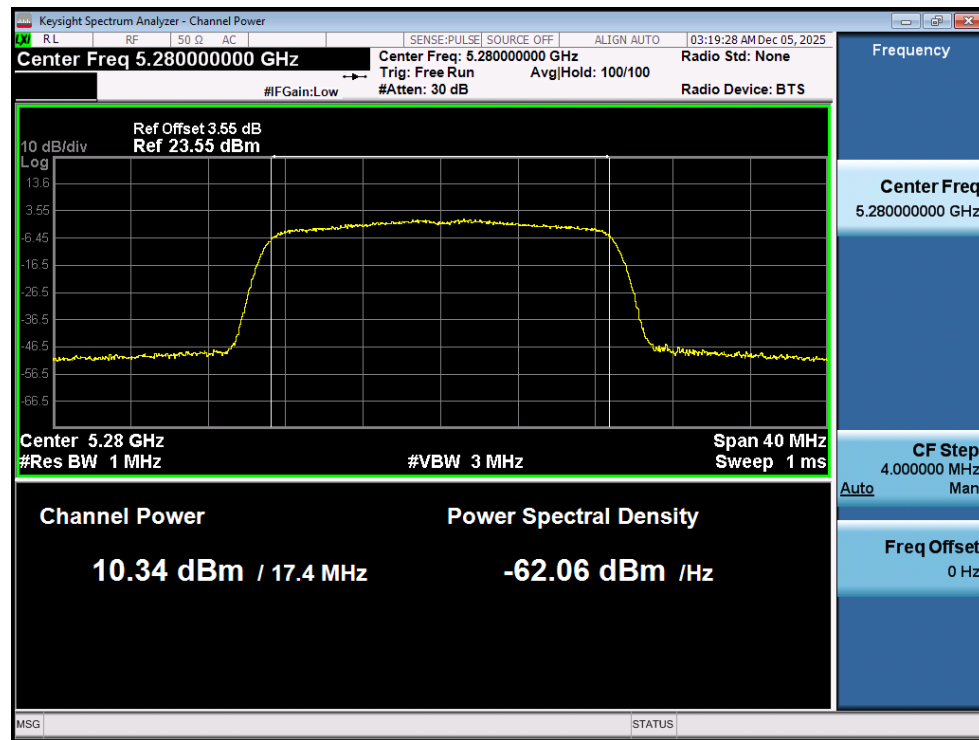
Power NVNT n40 5310MHz Ant A



Power NVNT ac20 5260MHz Ant A



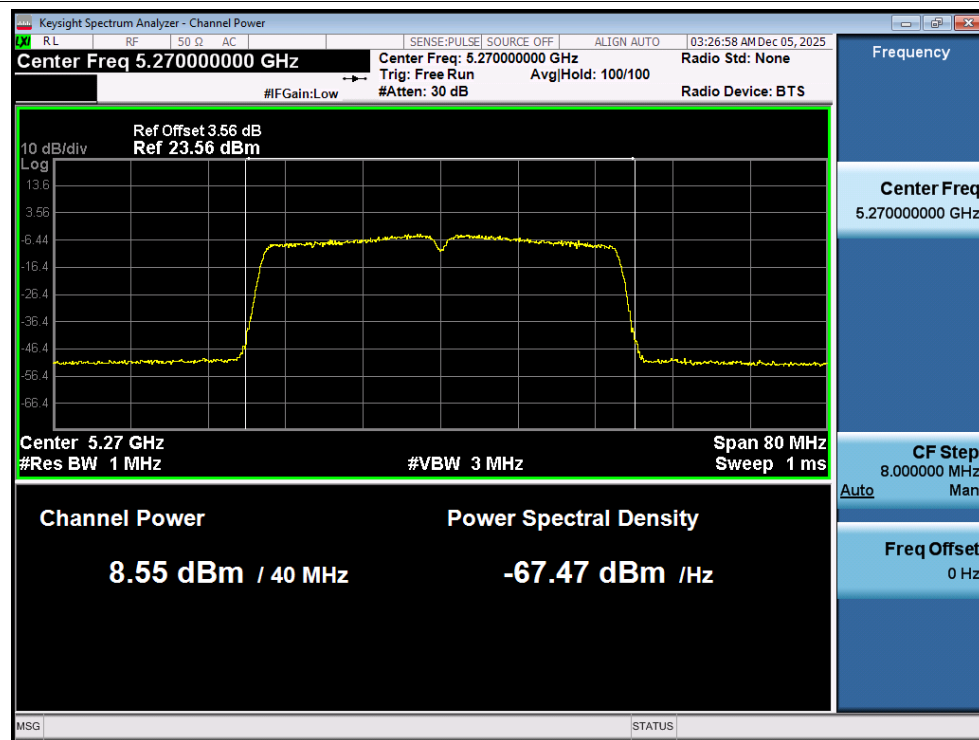
Power NVNT ac20 5280MHz Ant A



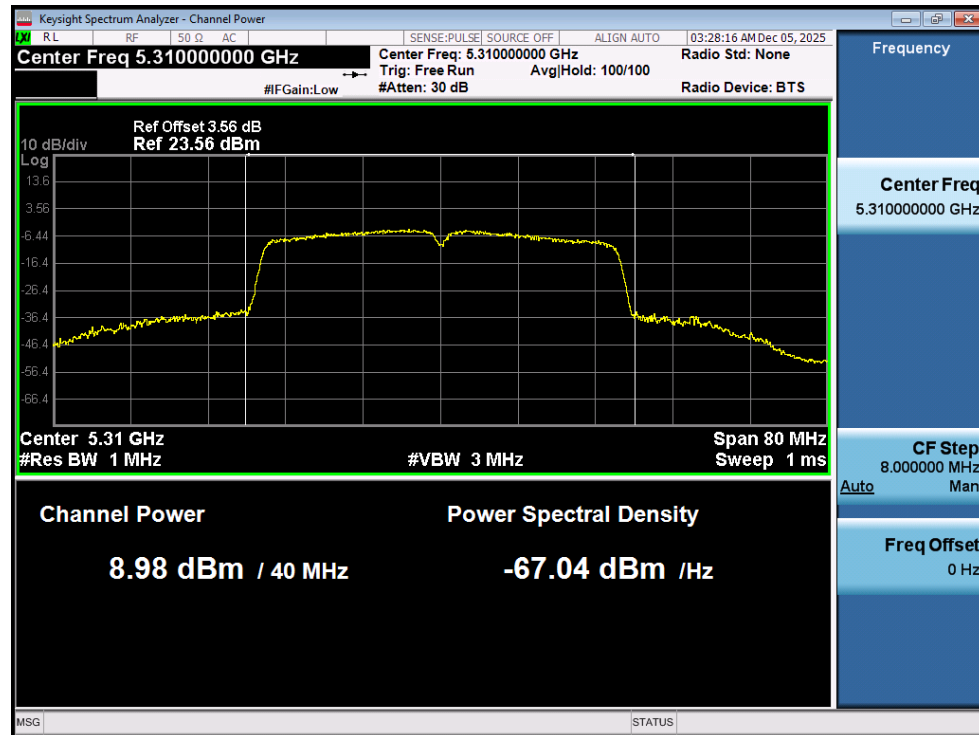
Power NVNT ac20 5320MHz Ant A



Power NVNT ac40 5270MHz Ant A



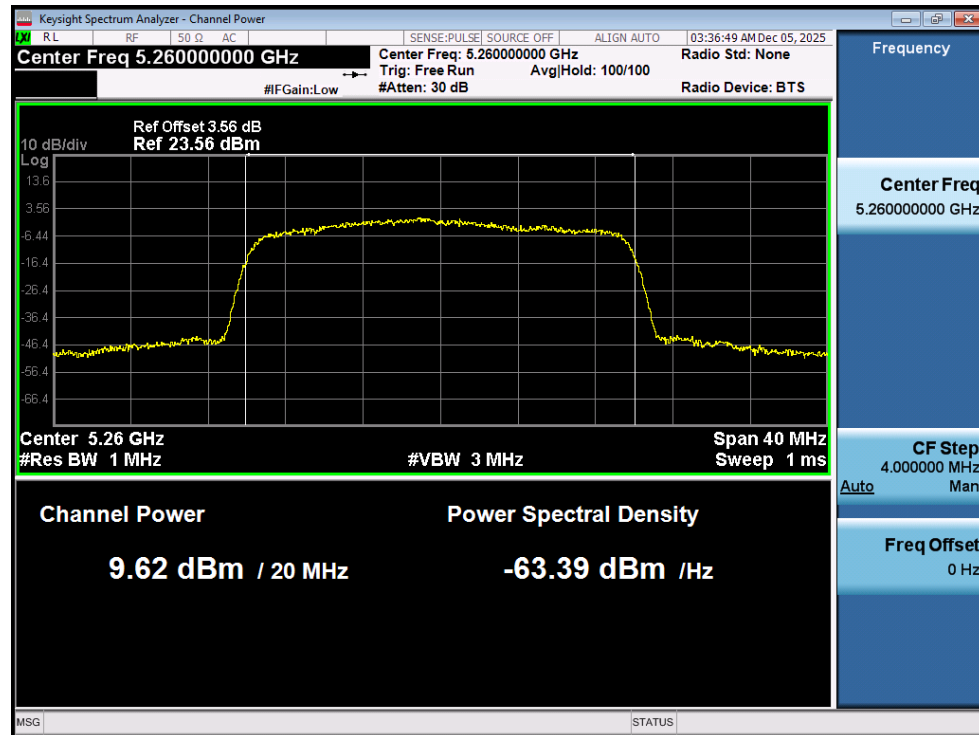
Power NVNT ac40 5310MHz Ant A



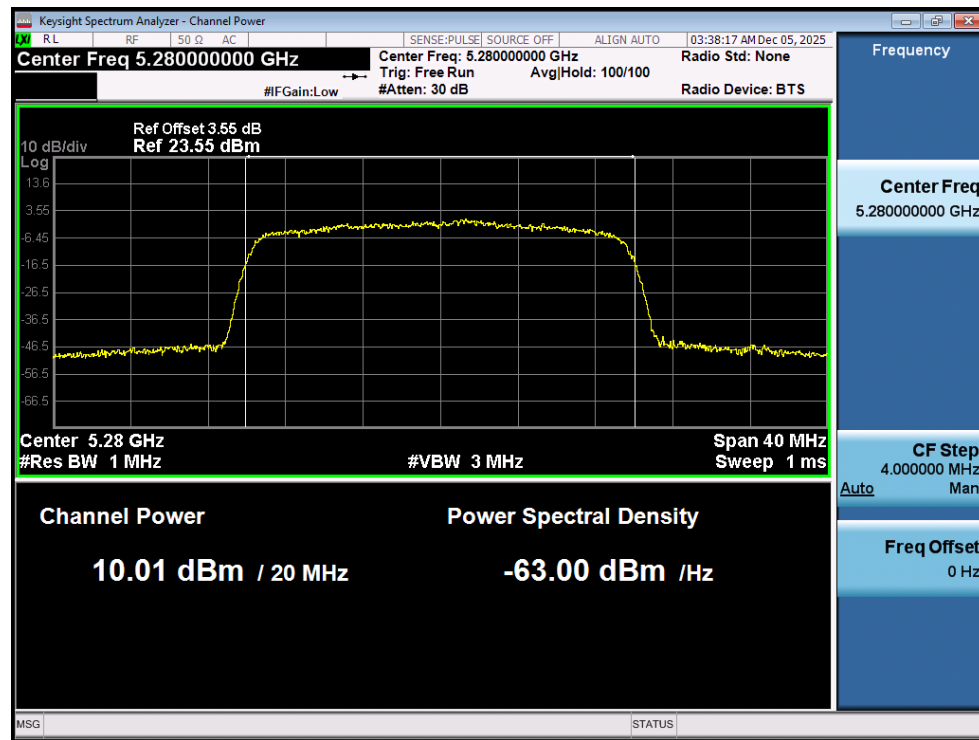
Power NVNT ac80 5290MHz Ant A



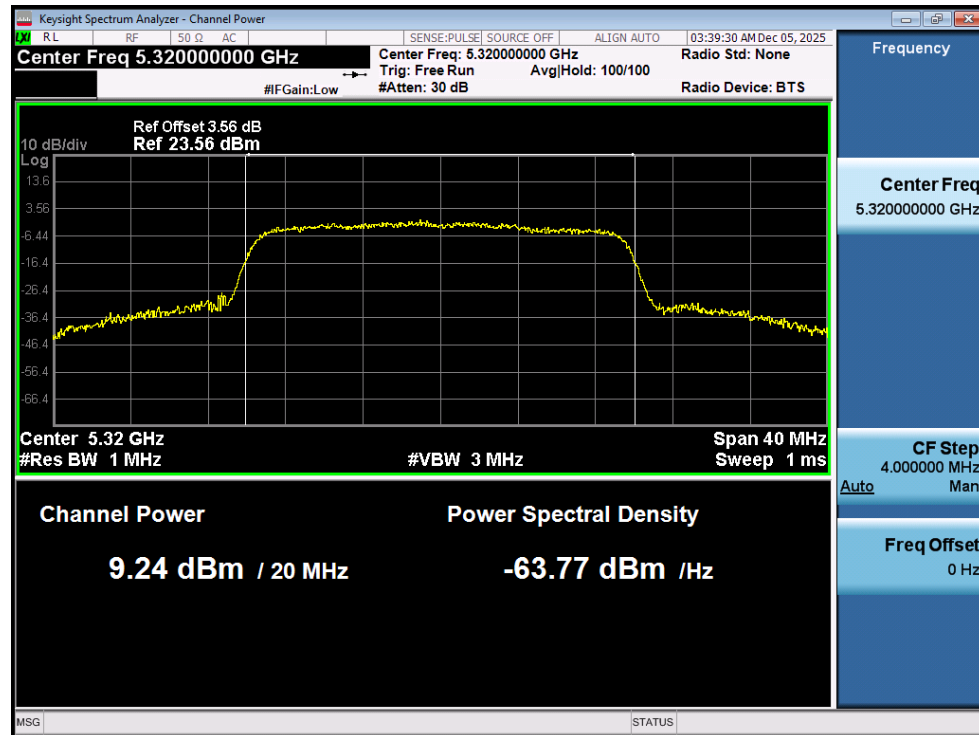
Power NVNT ax20 5260MHz Ant A



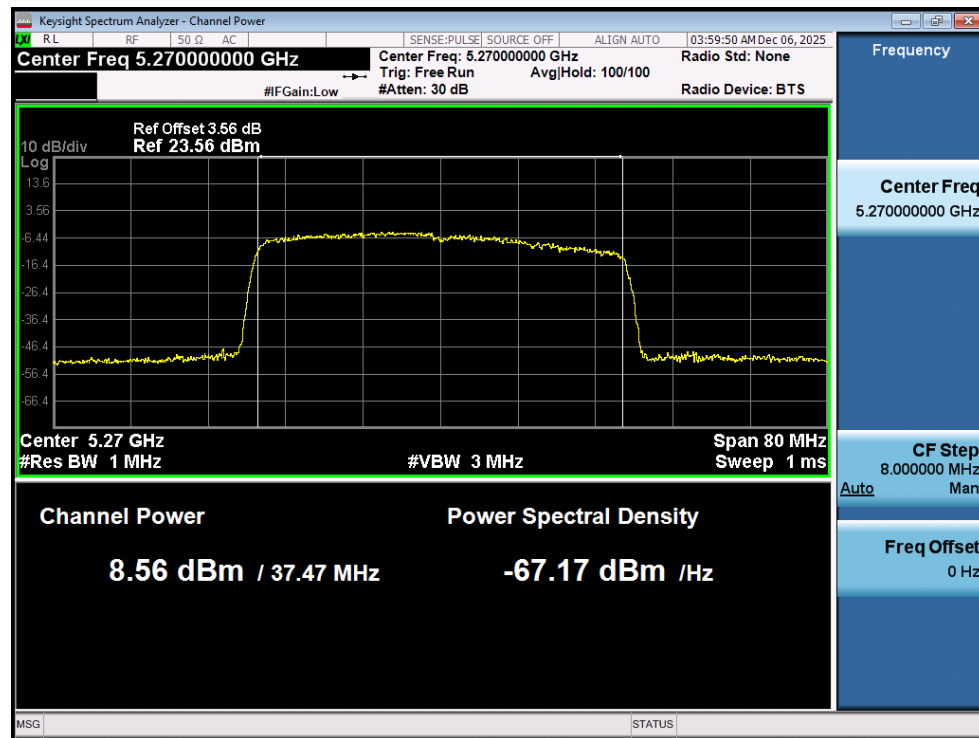
Power NVNT ax20 5280MHz Ant A



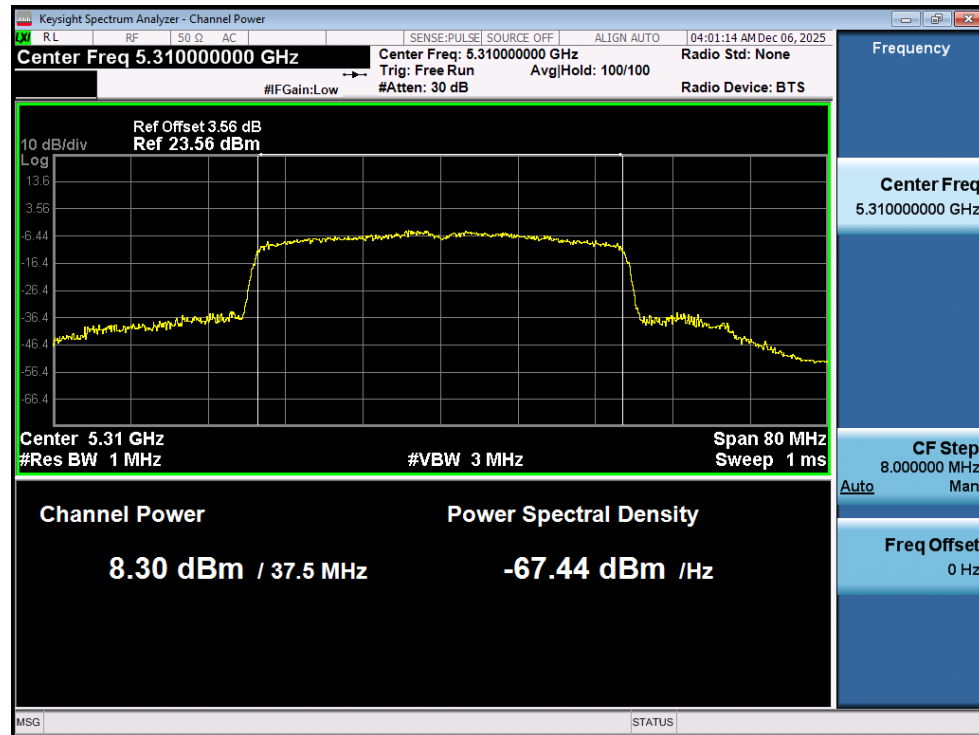
Power NVNT ax20 5320MHz Ant A



Power NVNT ax40 5270MHz Ant A



Power NVNT ax40 5310MHz Ant A



Power NVNT ax80 5290MHz Ant A

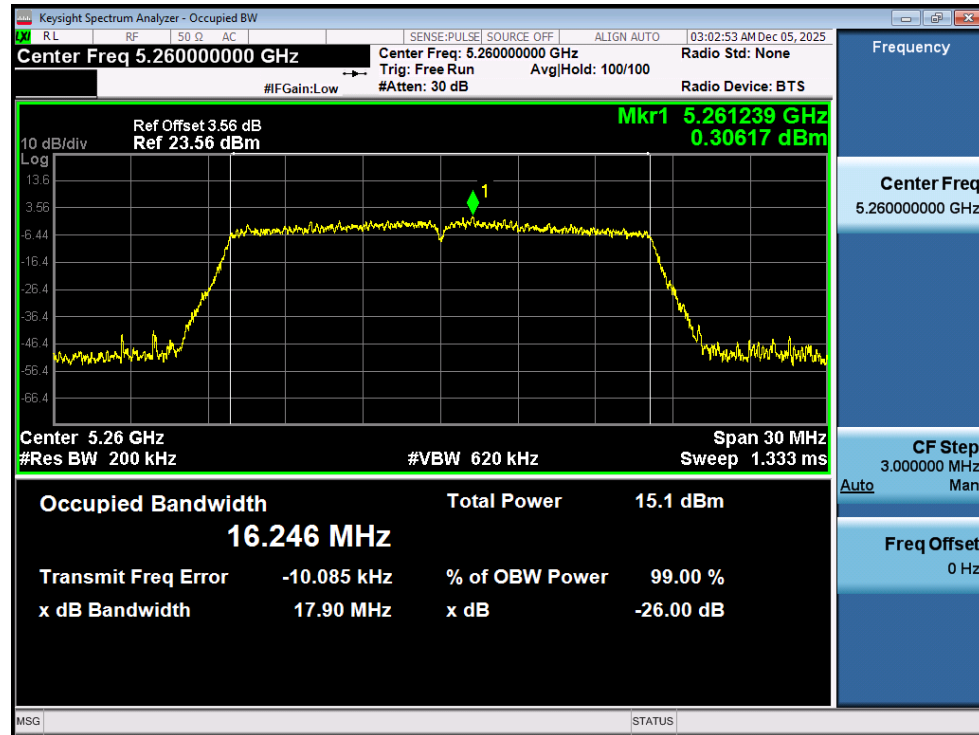


-26dB Bandwidth

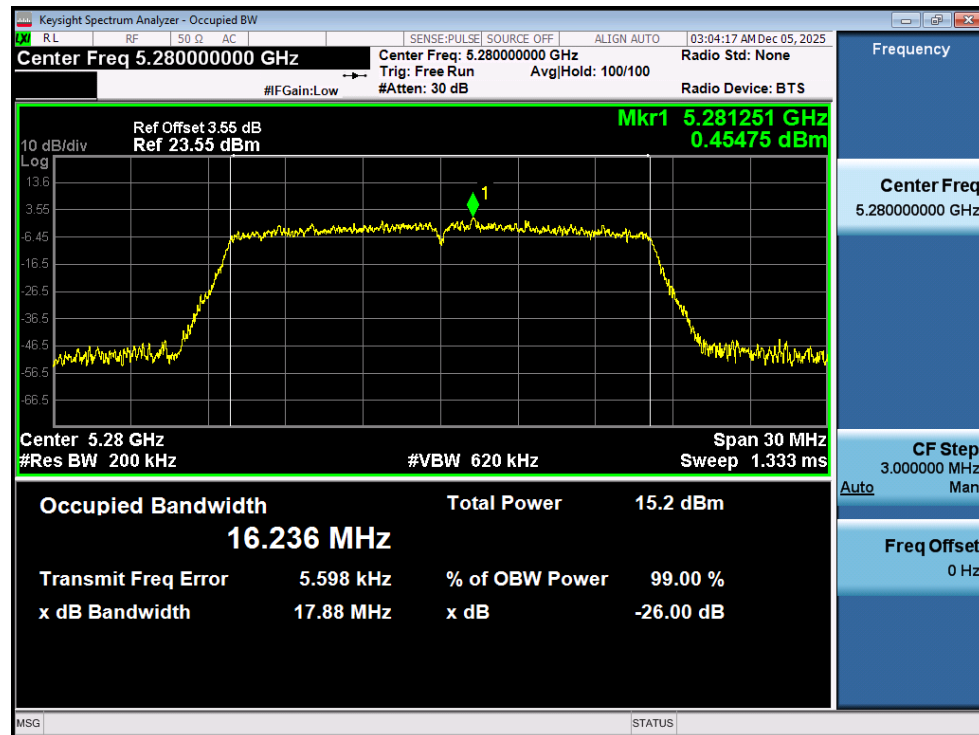
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant A	17.901	0.5	Pass
		5280		17.879	0.5	Pass
		5320		20.768	0.5	Pass
	n20	5260		18.782	0.5	Pass
		5280		18.598	0.5	Pass
		5320		23.21	0.5	Pass
	n40	5270		38.103	0.5	Pass
		5310		39.339	0.5	Pass
	ac20	5260		18.611	0.5	Pass
		5280		18.577	0.5	Pass
		5320		18.965	0.5	Pass
	ac40	5270		38.134	0.5	Pass
		5310		40.518	0.5	Pass
	ac80	5290		101.791	0.5	Pass
	ax20	5260		19.648	0.5	Pass
		5280		19.671	0.5	Pass
		5320		19.644	0.5	Pass
	ax40	5270		39.062	0.5	Pass
		5310		39.291	0.5	Pass
	ax80	5290		97.007	0.5	Pass

Test Graphs

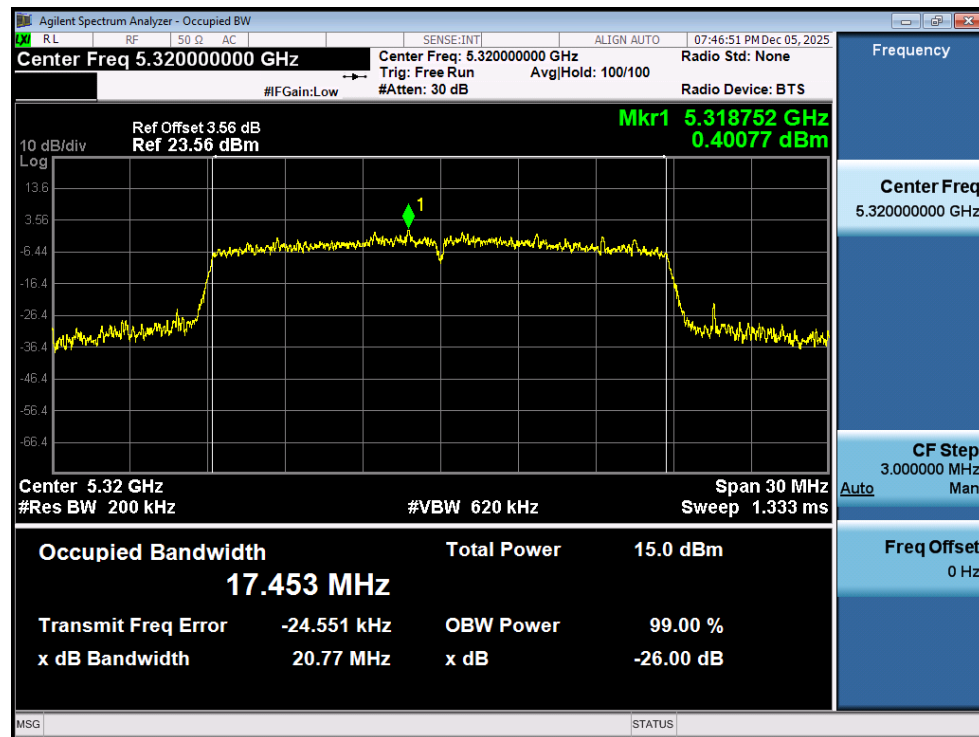
-26dB Bandwidth NVNT a 5260MHz Ant A



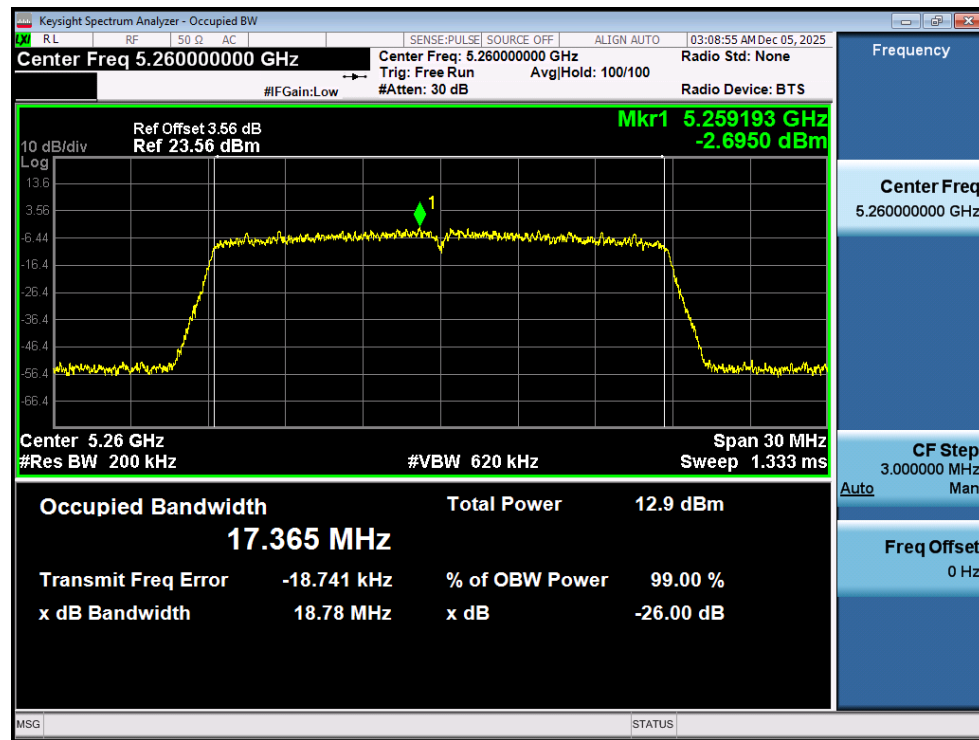
-26dB Bandwidth NVNT a 5280MHz Ant A



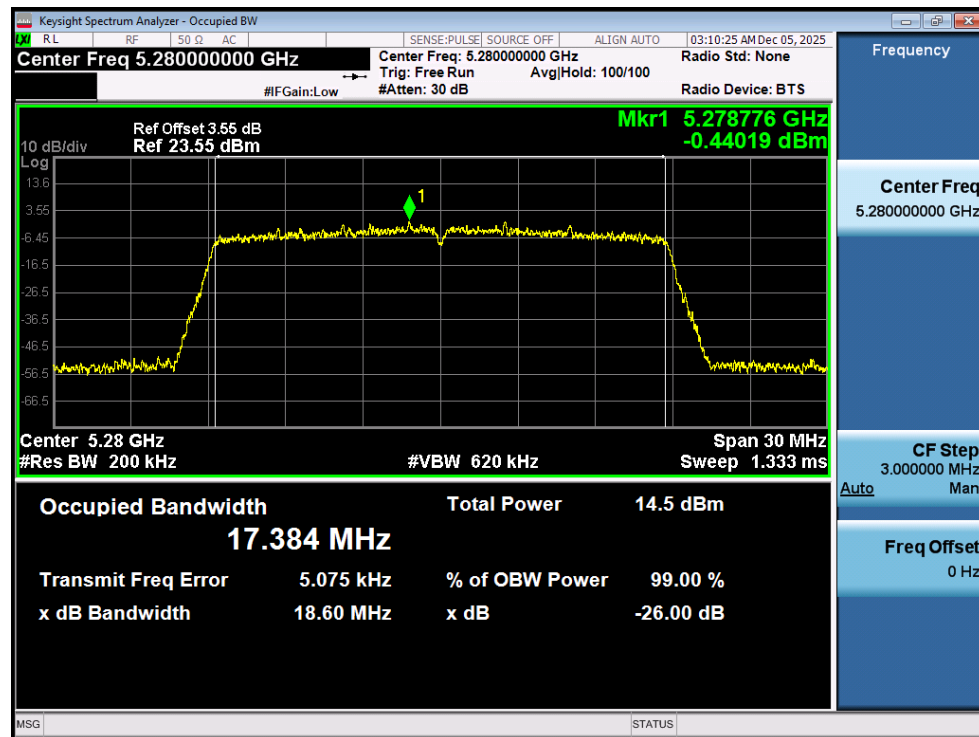
-26dB Bandwidth NVNT a 5320MHz Ant A



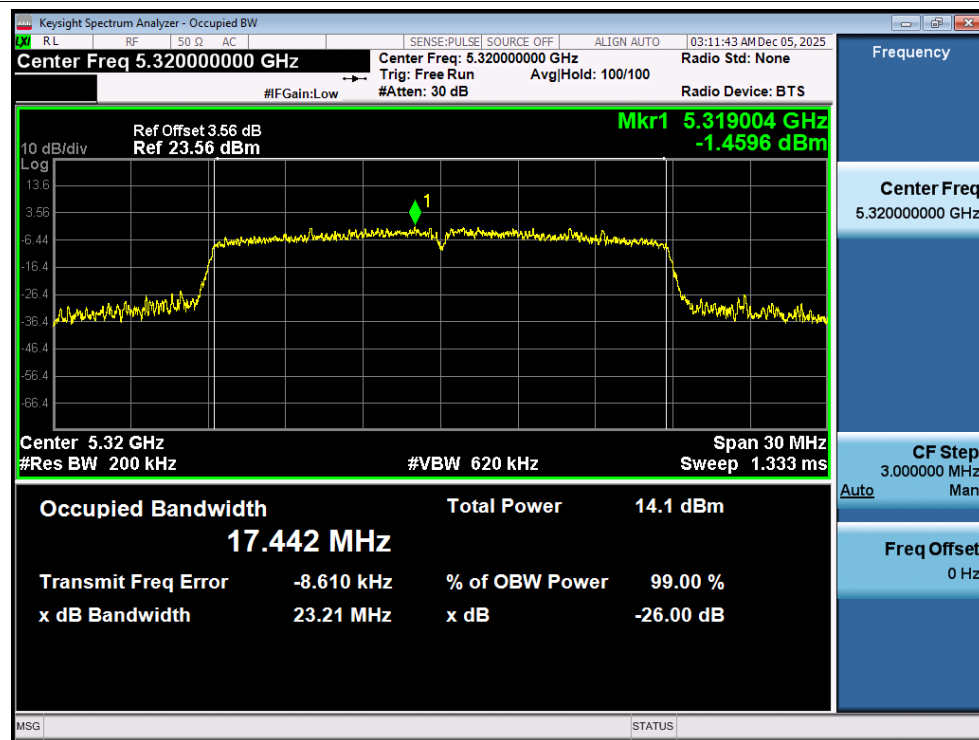
-26dB Bandwidth NVNT n20 5260MHz Ant A



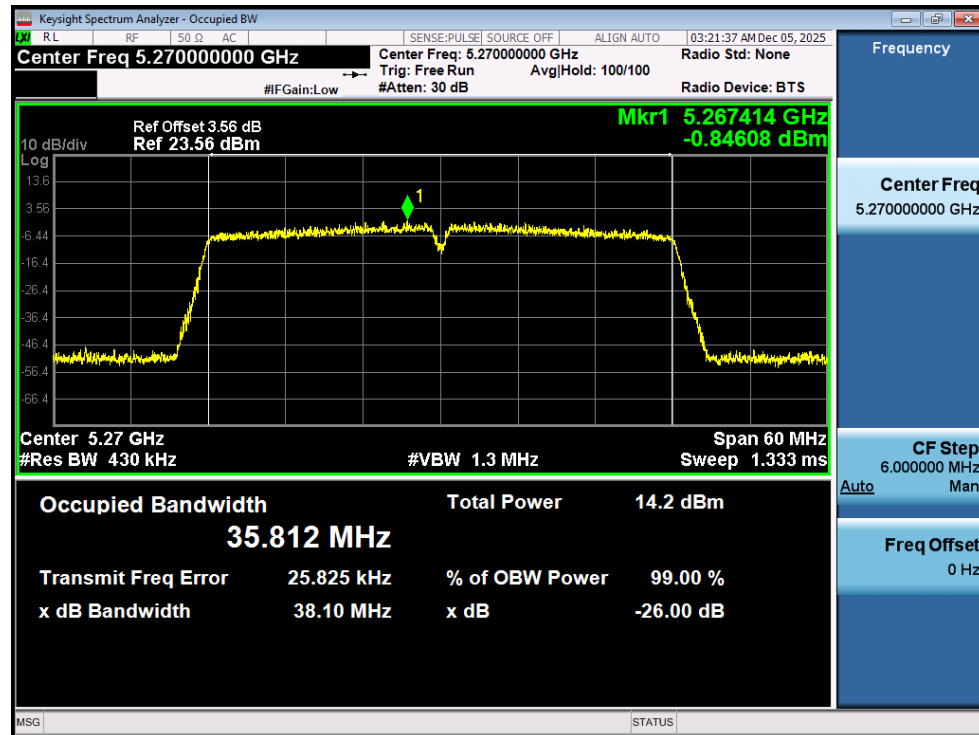
-26dB Bandwidth NVNT n20 5280MHz Ant A



-26dB Bandwidth NVNT n20 5320MHz Ant A



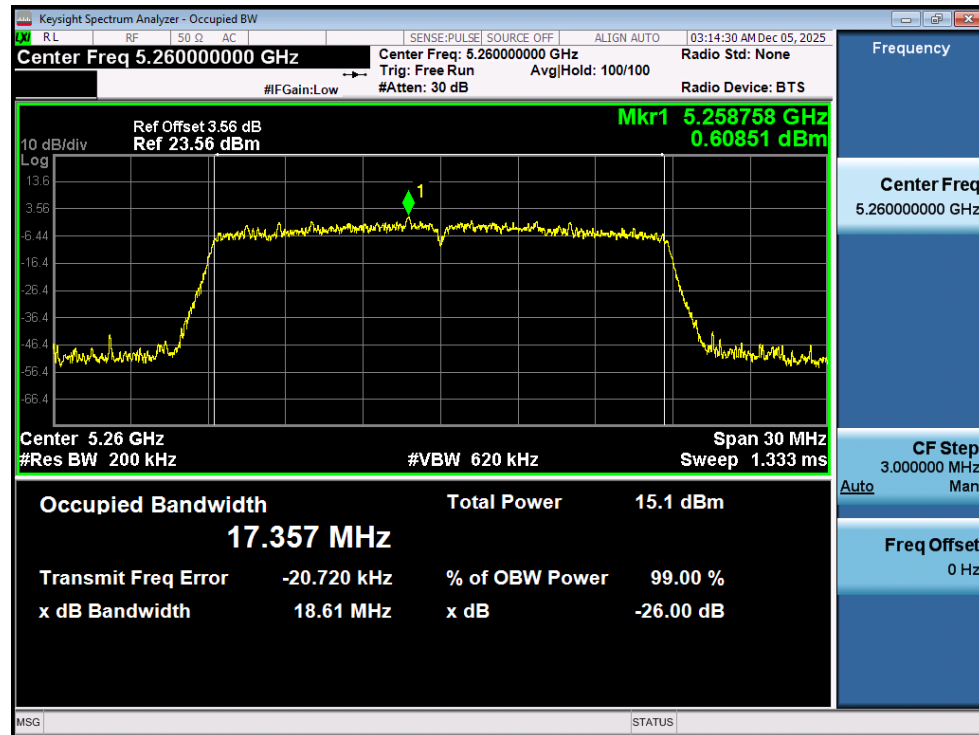
-26dB Bandwidth NVNT n40 5270MHz Ant A



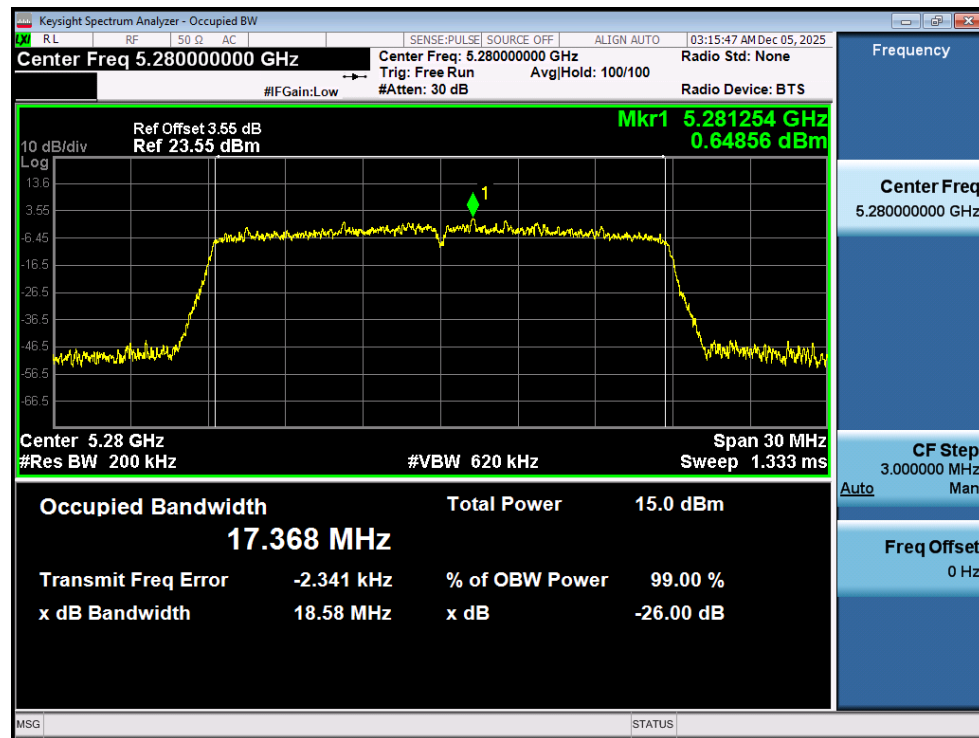
-26dB Bandwidth NVNT n40 5310MHz Ant A



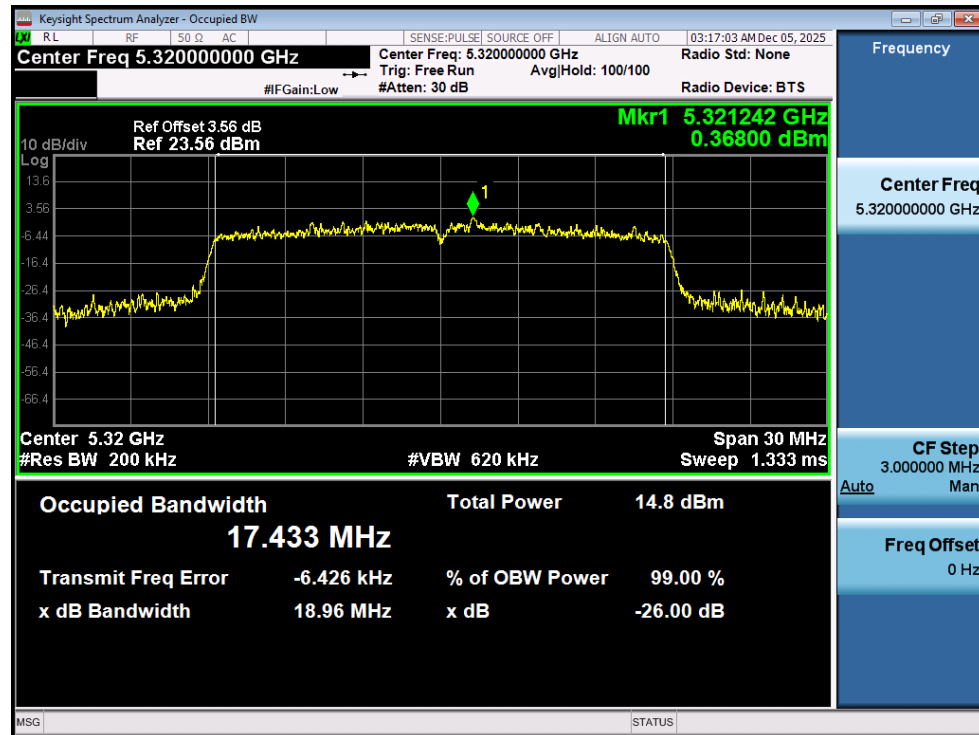
-26dB Bandwidth NVNT ac20 5260MHz Ant A



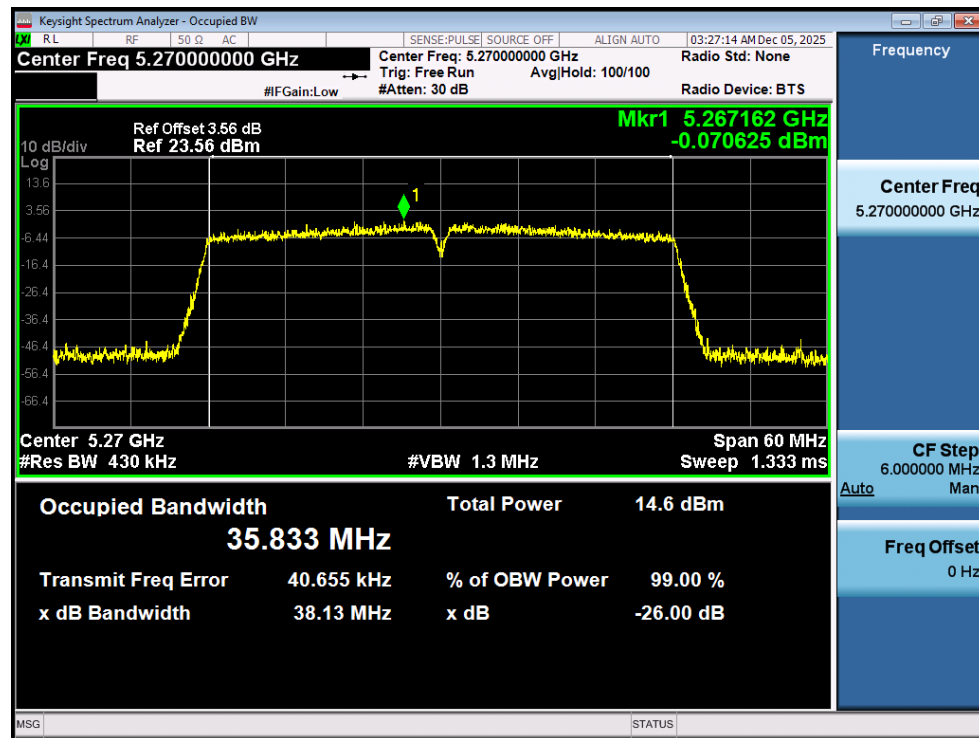
-26dB Bandwidth NVNT ac20 5280MHz Ant A



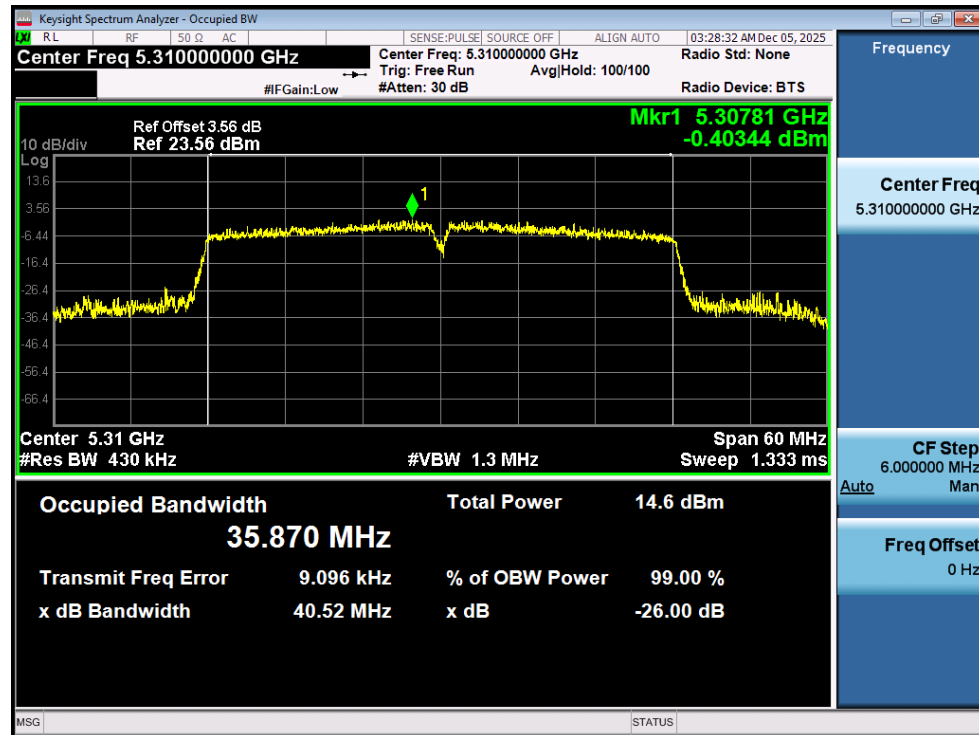
-26dB Bandwidth NVNT ac20 5320MHz Ant A



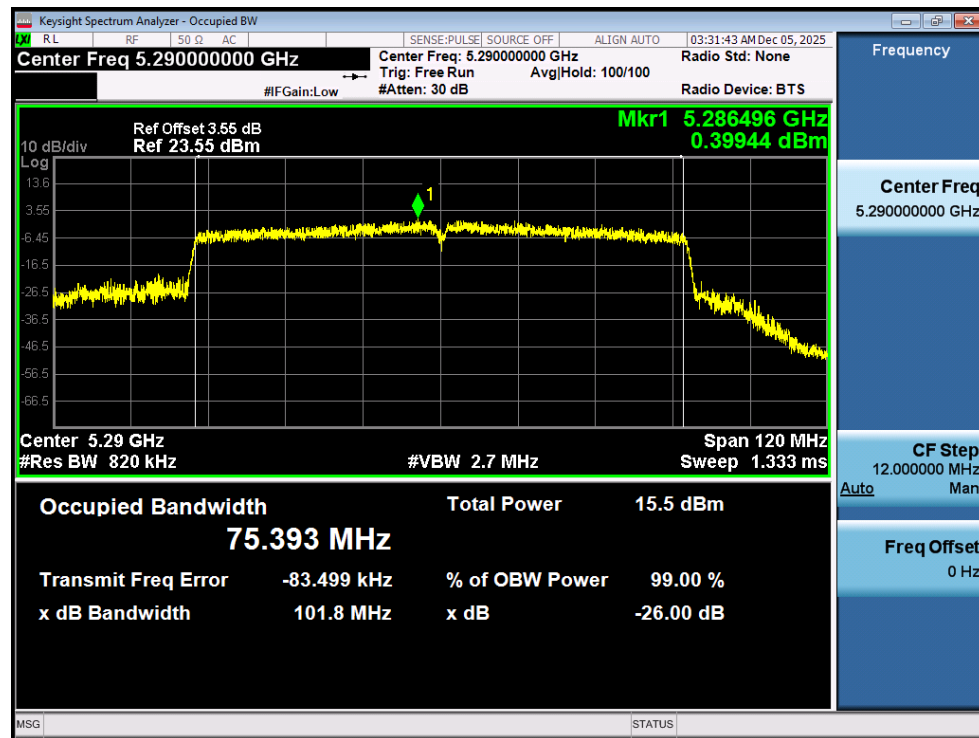
-26dB Bandwidth NVNT ac40 5270MHz Ant A



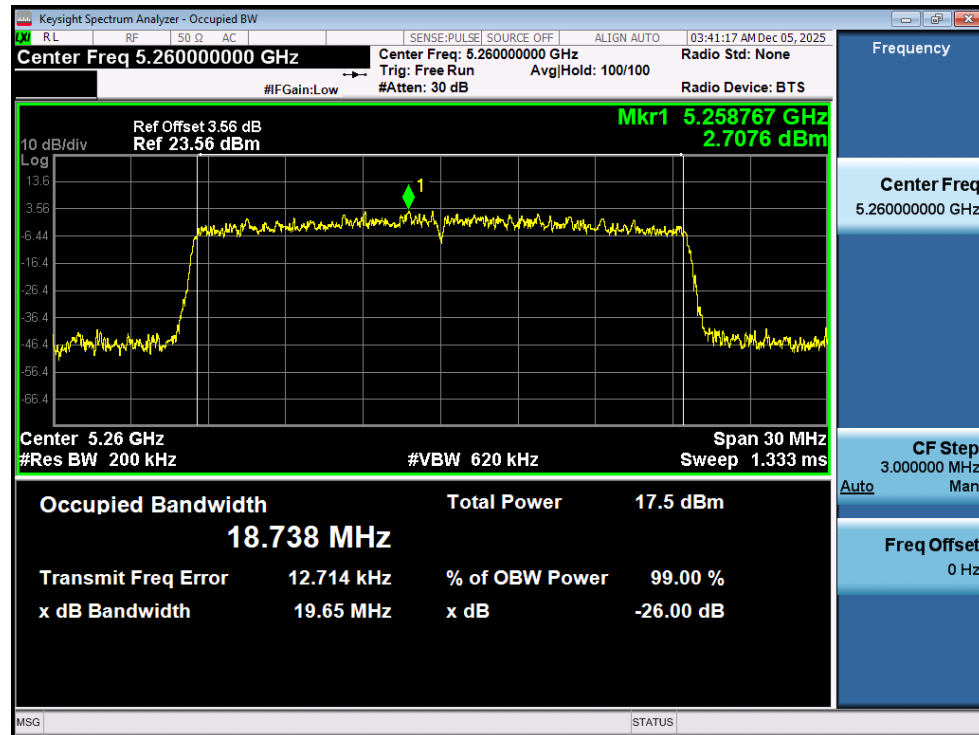
-26dB Bandwidth NVNT ac40 5310MHz Ant A



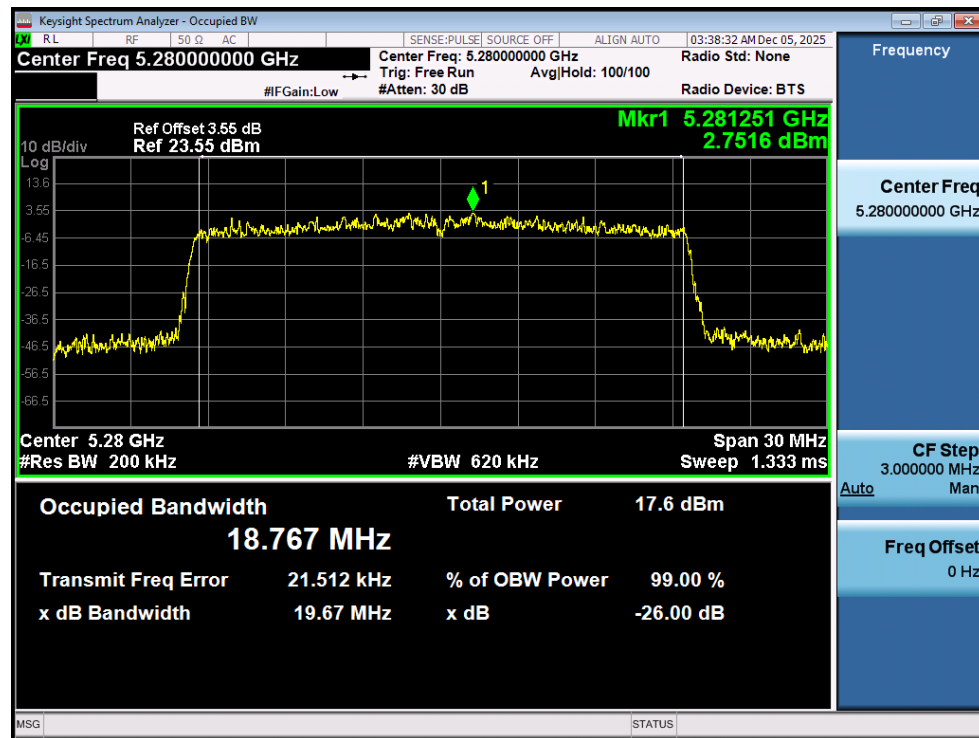
-26dB Bandwidth NVNT ac80 5290MHz Ant A



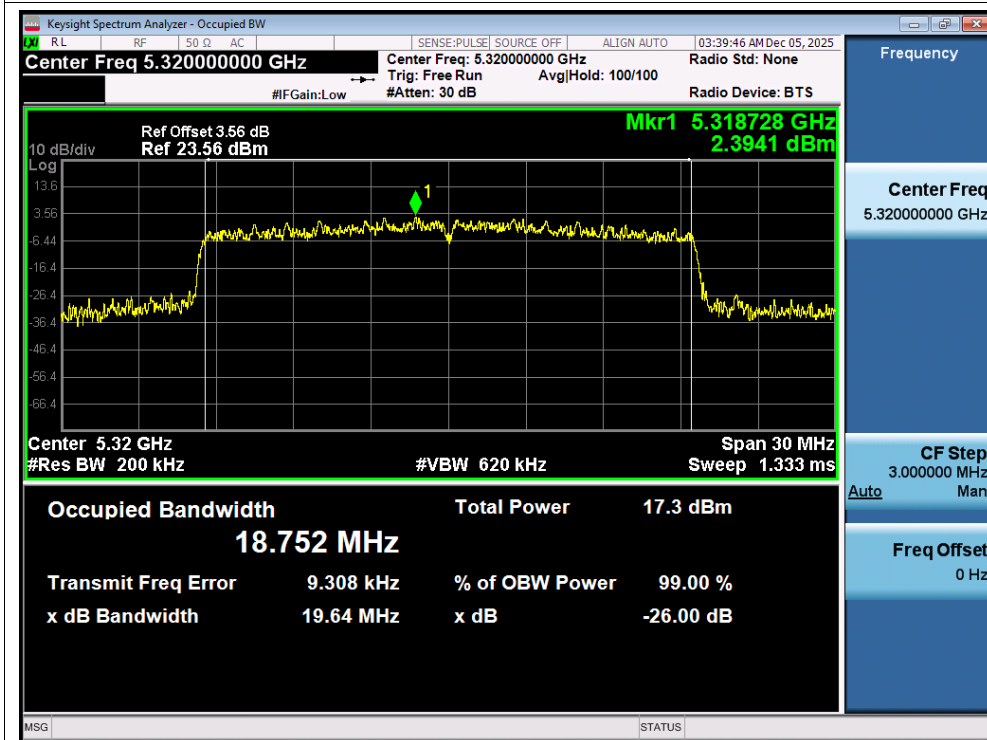
-26dB Bandwidth NVNT ax20 5260MHz Ant A



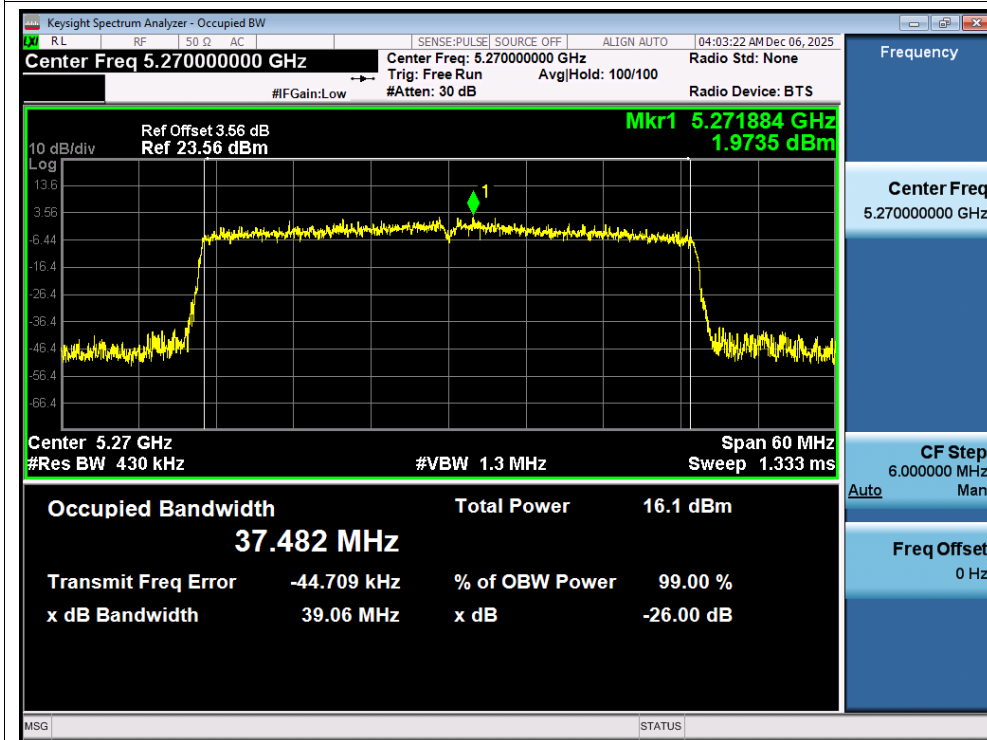
-26dB Bandwidth NVNT ax20 5280MHz Ant A



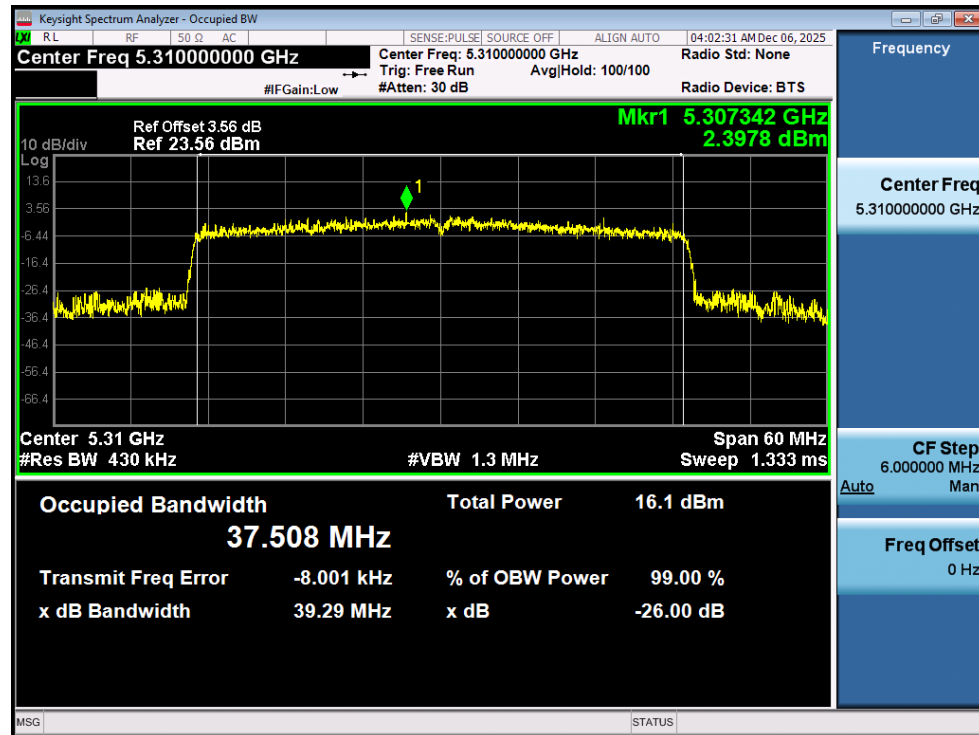
-26dB Bandwidth NVNT ax20 5320MHz Ant A



-26dB Bandwidth NVNT ax40 5270MHz Ant A



-26dB Bandwidth NVNT ax40 5310MHz Ant A



-26dB Bandwidth NVNT ax80 5290MHz Ant A



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant A	16.245
		5280		16.259
		5320		16.305
	n20	5260		17.392
		5280		17.378
		5320		17.43
	n40	5270		35.789
		5310		35.835
	ac20	5260		17.383
		5280		17.403
		5320		17.449
	ac40	5270		35.877
		5310		35.892
	ac80	5290		75.383
	ax20	5260		18.726
		5280		18.711
		5320		18.71
	ax40	5270		37.427
		5310		37.511
	ax80	5290		76.997

Test Graphs

OBW NVNT a 5260MHz Ant A



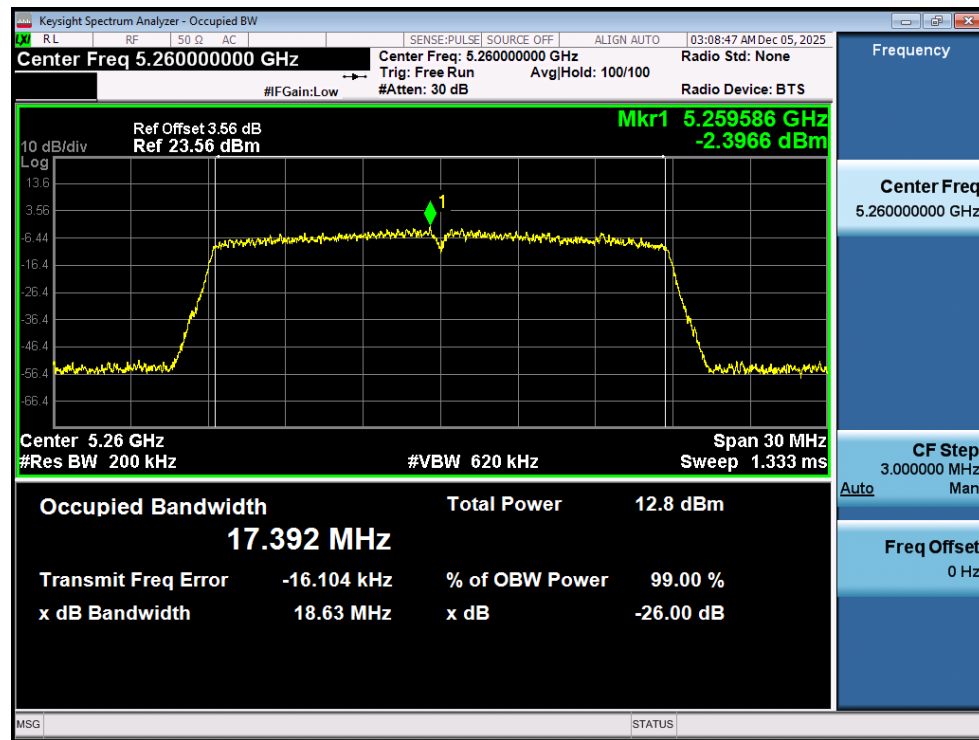
OBW NVNT a 5280MHz Ant A



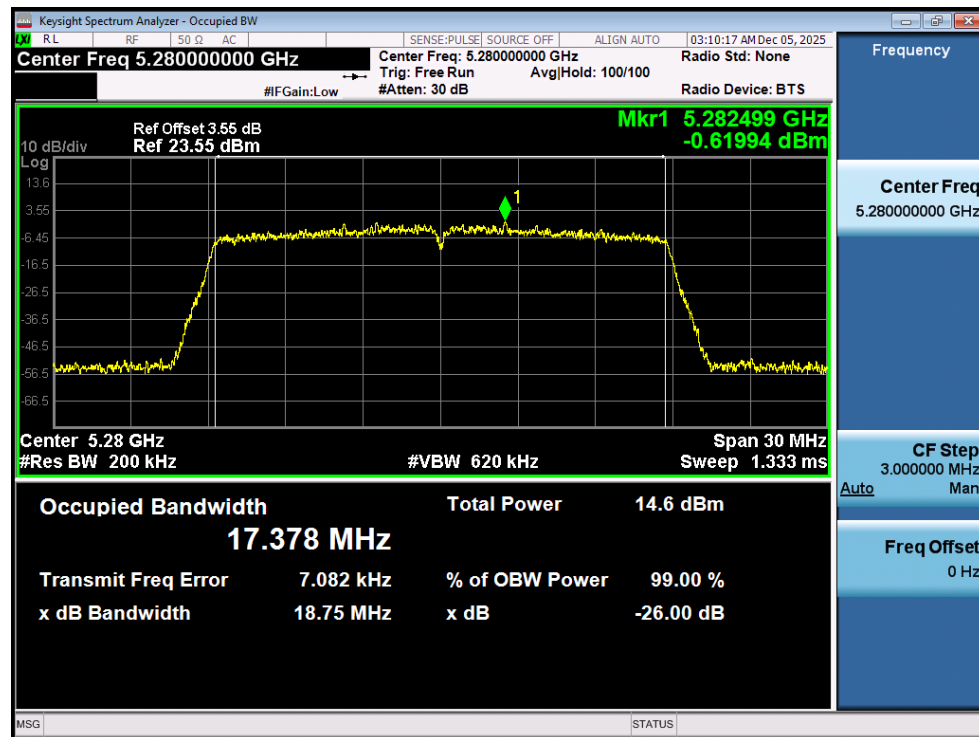
OBW NVNT a 5320MHz Ant A



OBW NVNT n20 5260MHz Ant A



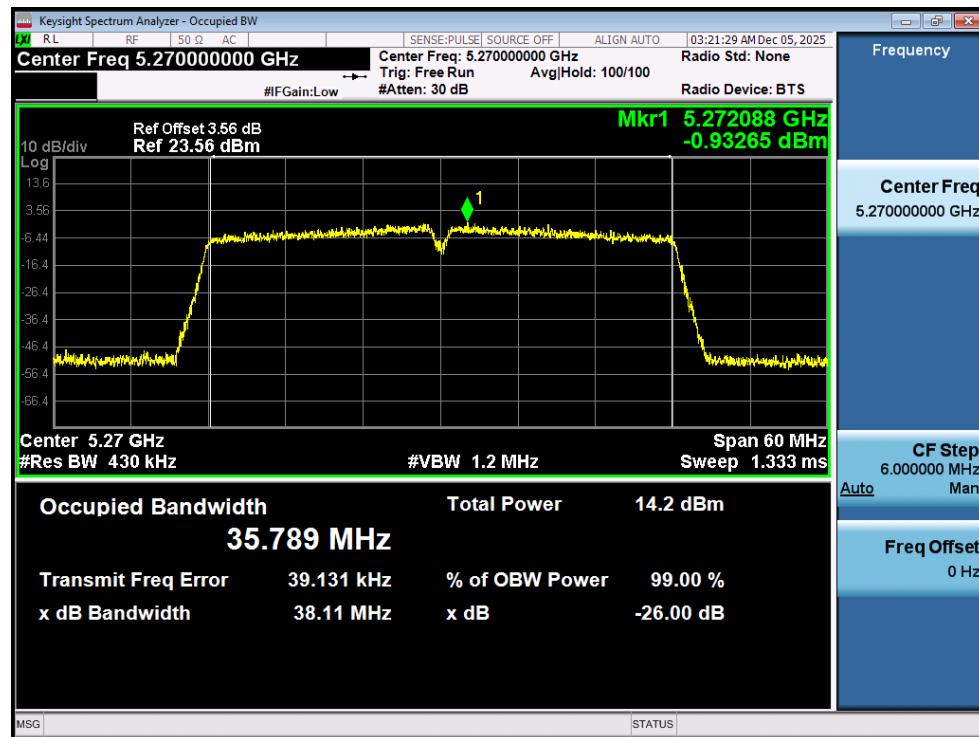
OBW NVNT n20 5280MHz Ant A



OBW NVNT n20 5320MHz Ant A



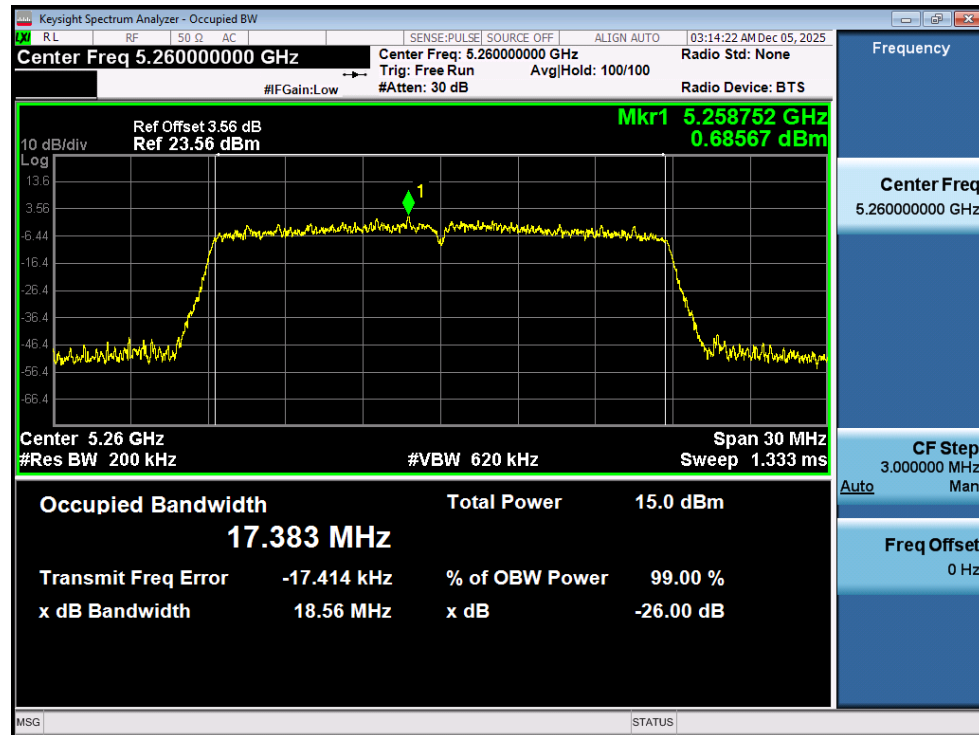
OBW NVNT n40 5270MHz Ant A



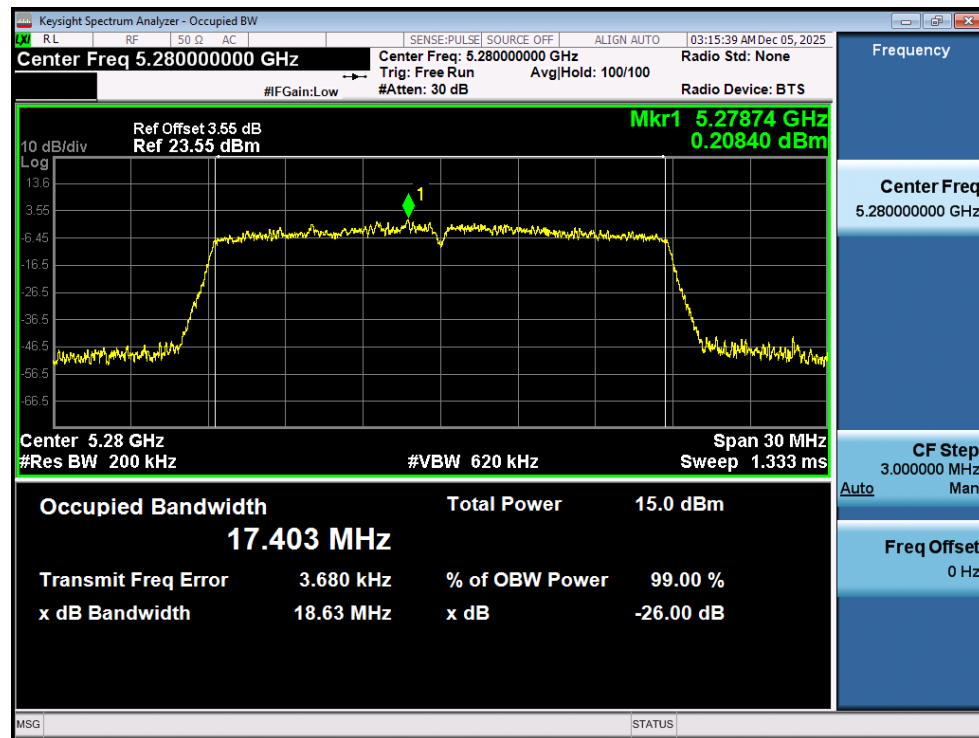
OBW NVNT n40 5310MHz Ant A



OBW NVNT ac20 5260MHz Ant A



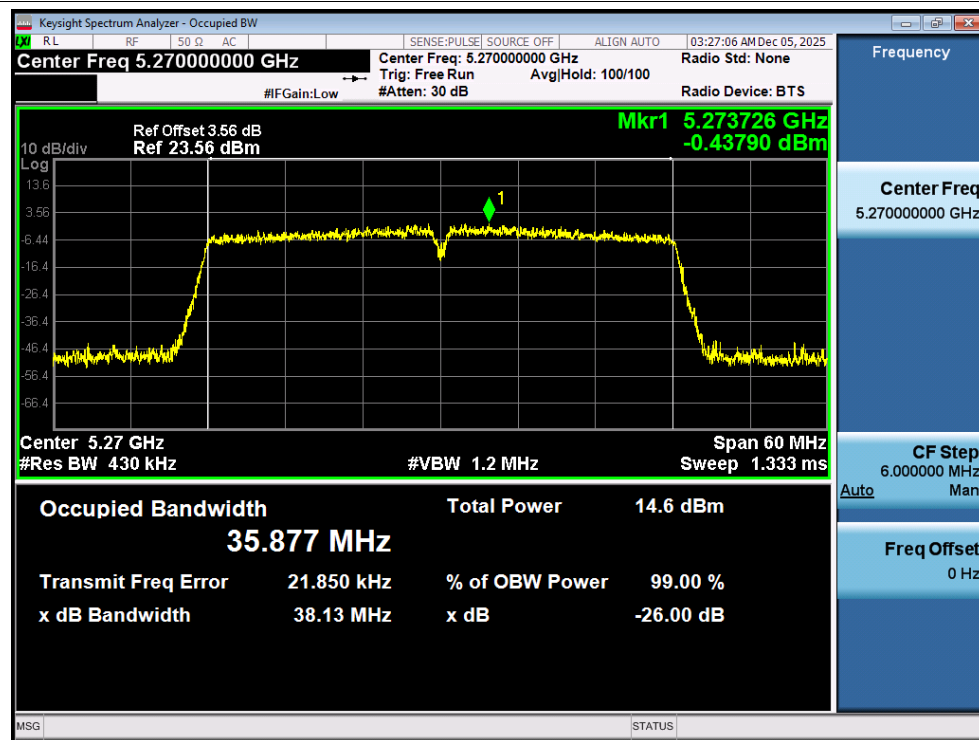
OBW NVNT ac20 5280MHz Ant A



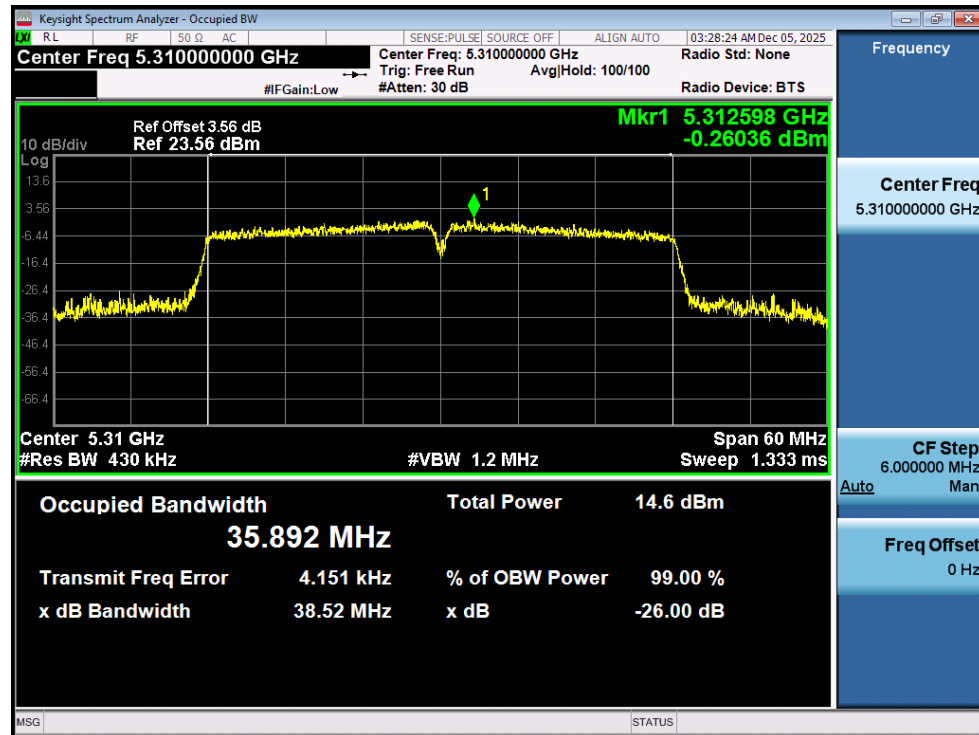
OBW NVNT ac20 5320MHz Ant A



OBW NVNT ac40 5270MHz Ant A



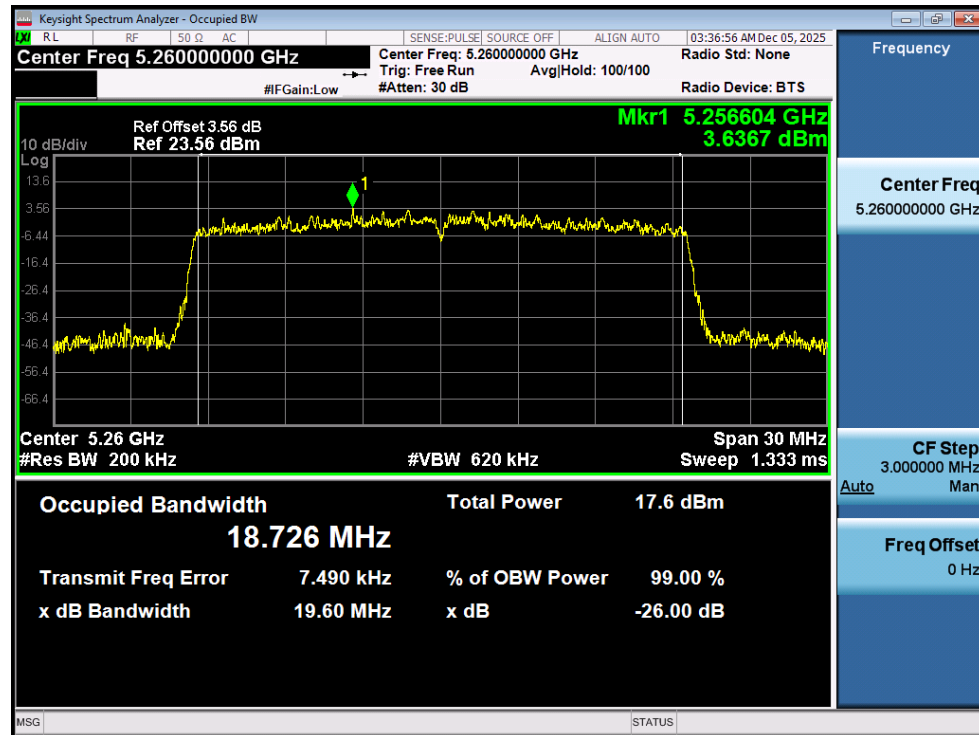
OBW NVNT ac40 5310MHz Ant A



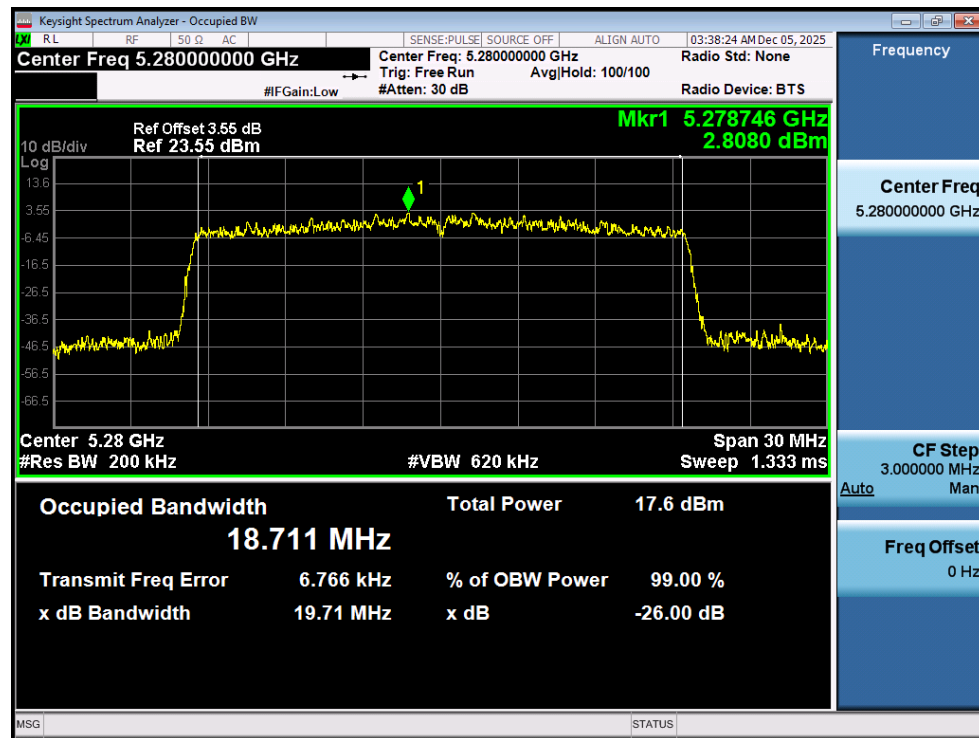
OBW NVNT ac80 5290MHz Ant A



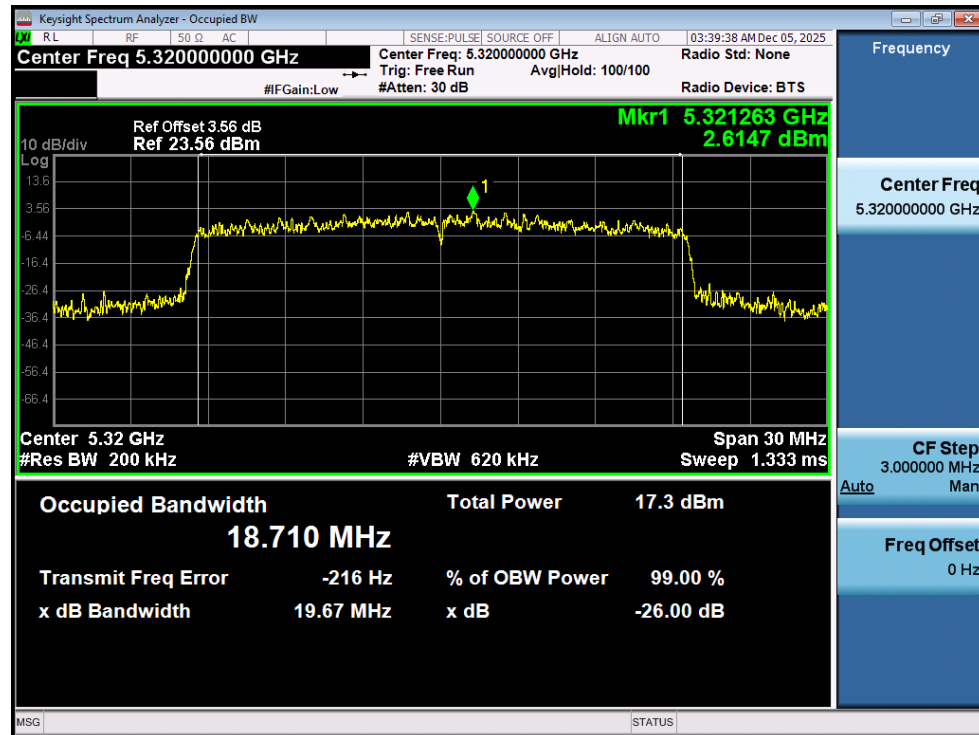
OBW NVNT ax20 5260MHz Ant A



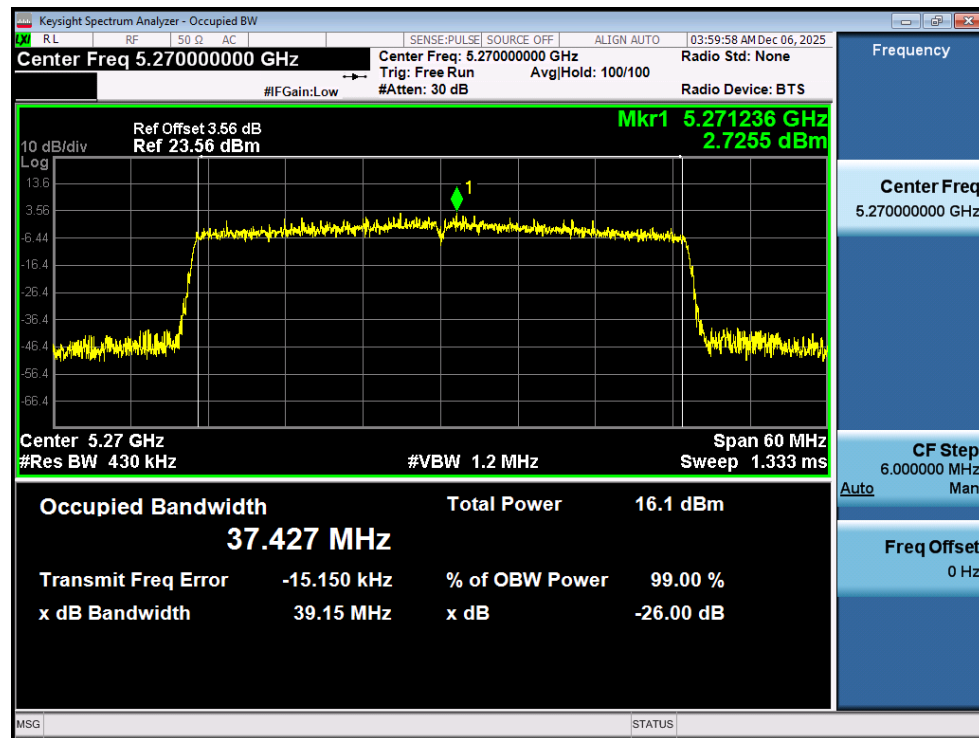
OBW NVNT ax20 5280MHz Ant A



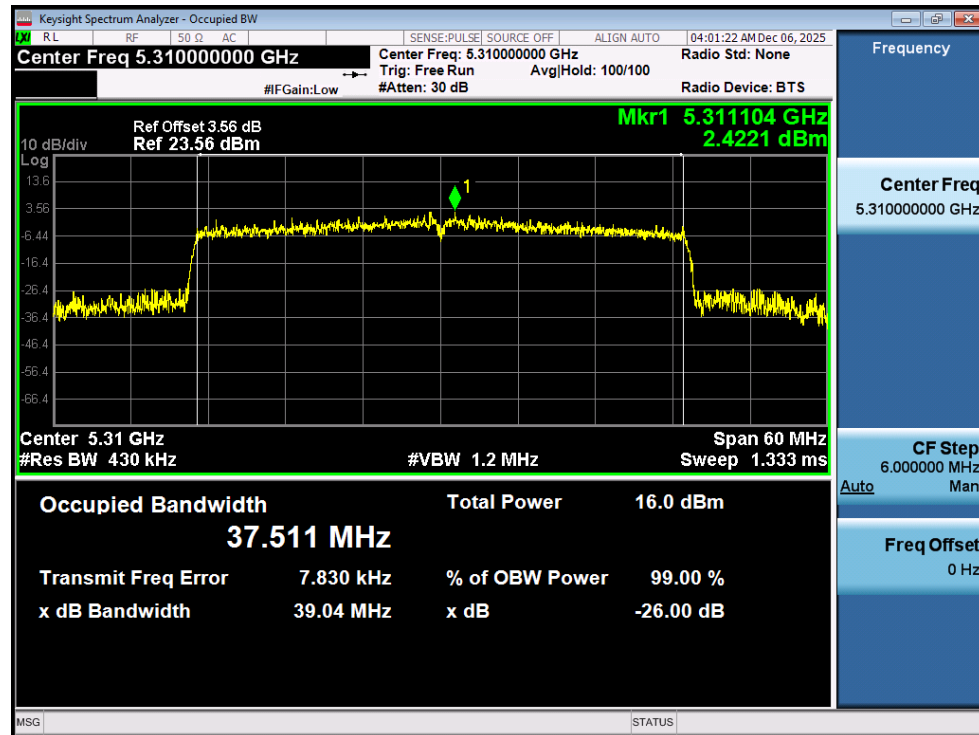
OBW NVNT ax20 5320MHz Ant A



OBW NVNT ax40 5270MHz Ant A



OBW NVNT ax40 5310MHz Ant A



OBW NVNT ax80 5290MHz 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	5260	-0.8	-1.16	/	11	Pass
NVNT	a	5280	-0.48	-0.28	/	11	Pass
NVNT	a	5320	-1.24	-1.04	/	11	Pass
NVNT	n20	5260	-3.4	-2.88	-0.12	10.72	Pass
NVNT	n20	5280	-1.64	-0.84	1.79	10.72	Pass
NVNT	n20	5320	-1.98	-1.59	1.23	10.72	Pass
NVNT	n40	5270	-5.68	-5.57	-2.61	10.72	Pass
NVNT	n40	5310	-5.65	-6.2	-2.91	10.72	Pass
NVNT	ac20	5260	-2.32	-1.59	1.07	10.72	Pass
NVNT	ac20	5280	-2.44	-1.98	0.81	10.72	Pass
NVNT	ac20	5320	-2.09	-1.47	1.24	10.72	Pass
NVNT	ac40	5270	-6.24	-6.06	-3.14	10.72	Pass
NVNT	ac40	5310	-5.94	-5.56	-2.74	10.72	Pass
NVNT	ac80	5290	-9.9	-8.77	-6.29	10.72	Pass
NVNT	ax20	5260	-1.08	-2	1.49	10.72	Pass
NVNT	ax20	5280	-1.77	-1.36	1.45	10.72	Pass
NVNT	ax20	5320	-2.01	-1.4	1.32	10.72	Pass
NVNT	ax40	5270	-6.45	-5.67	-3.03	10.72	Pass
NVNT	ax40	5310	-6.21	-4.79	-2.43	10.72	Pass
NVNT	ax80	5290	-10.68	-10.62	-7.64	10.72	Pass

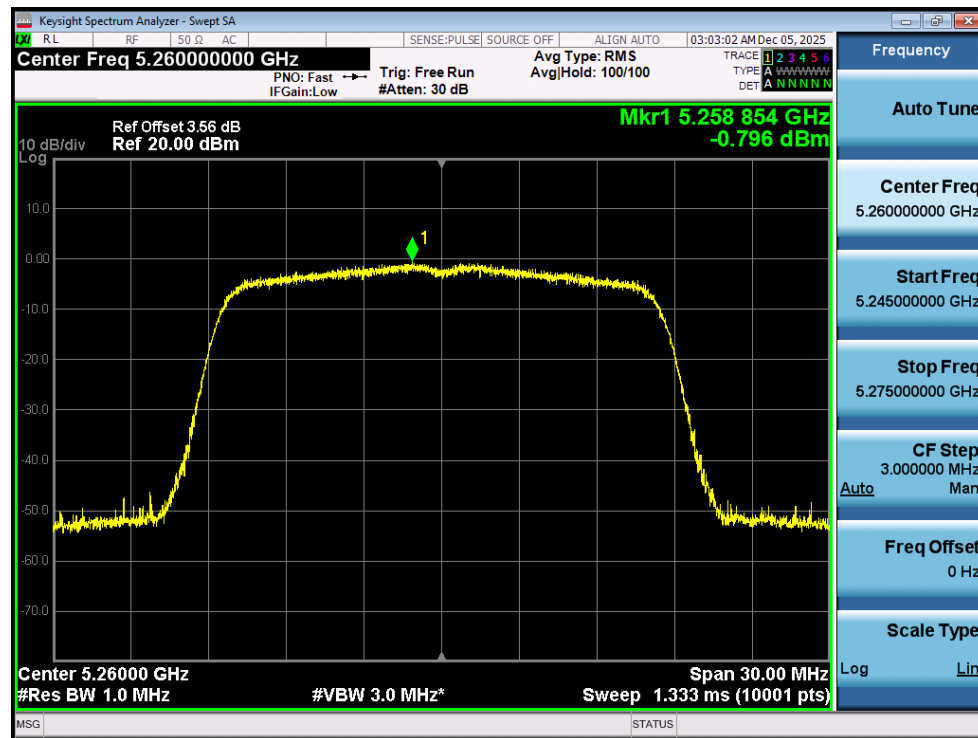
Note:

Antenna A gain: 3.05 dBi, Antenna B gain: 3.27dBi
 For power spectral density(PSD) measurements,
 $\text{Array Gain} = 10\log(\text{NANT}/\text{NSS})\text{dB} = 10\log(2/1) = 3.01 \text{ dBi}$,
 So the directional gain for PSD is 6.28 dBi > 6dbi
 $\text{Limit} = 11 - (6.28 - 6) = 10.72 \text{ dbm}$

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

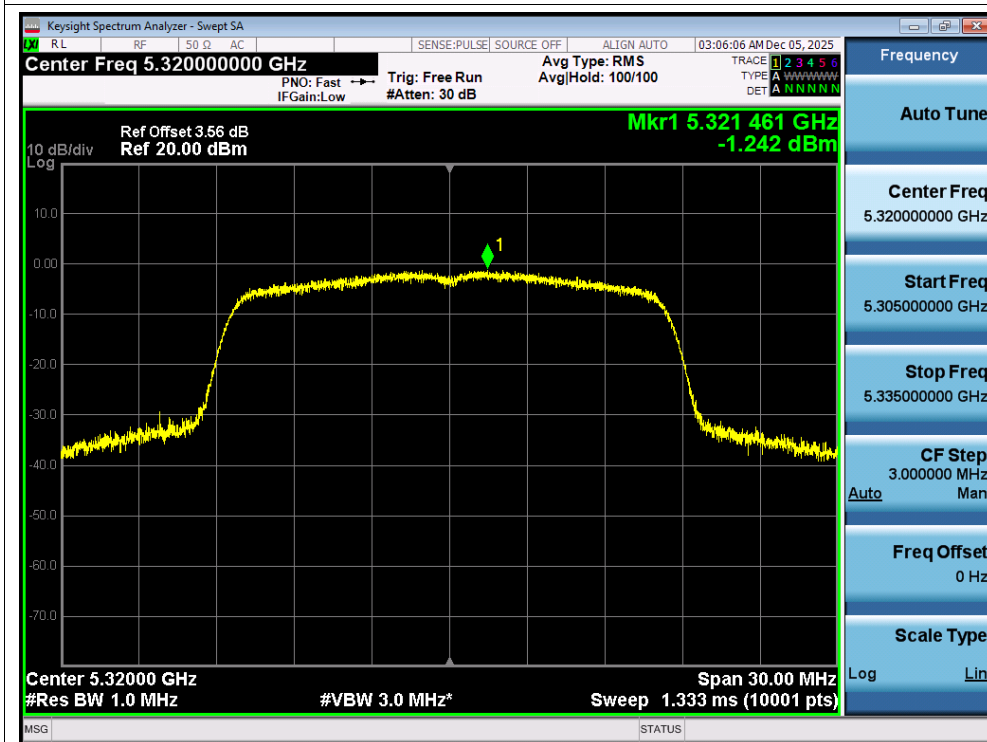
PSD NVNT a 5260MHz Ant A



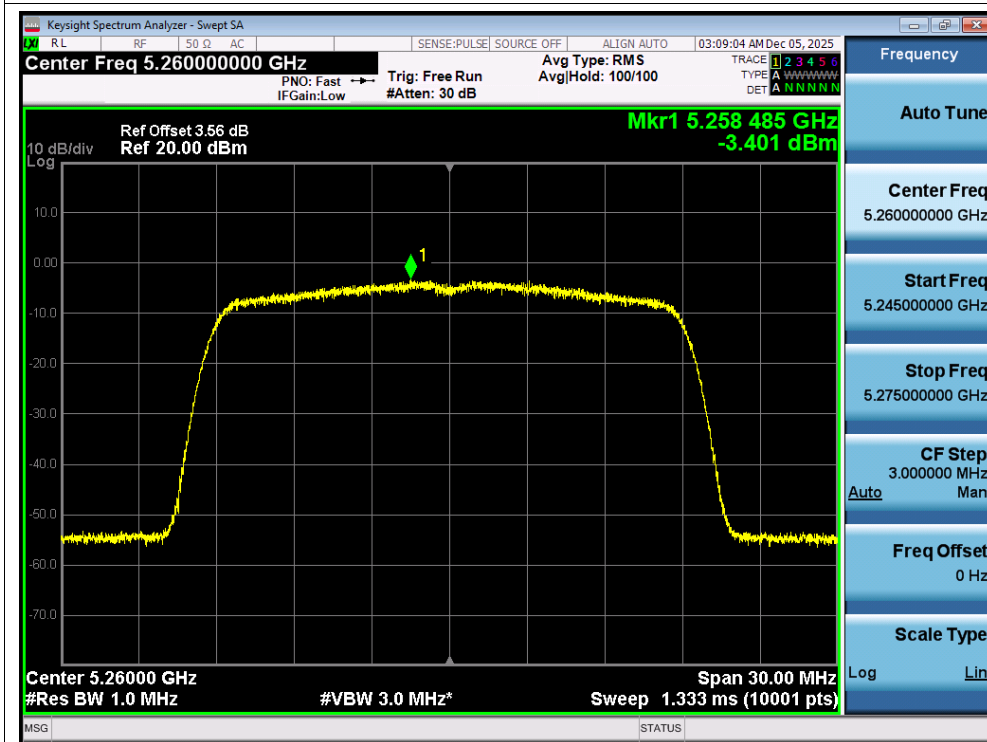
PSD NVNT a 5280MHz Ant A



PSD NVNT a 5320MHz Ant A



PSD NVNT n20 5260MHz Ant A



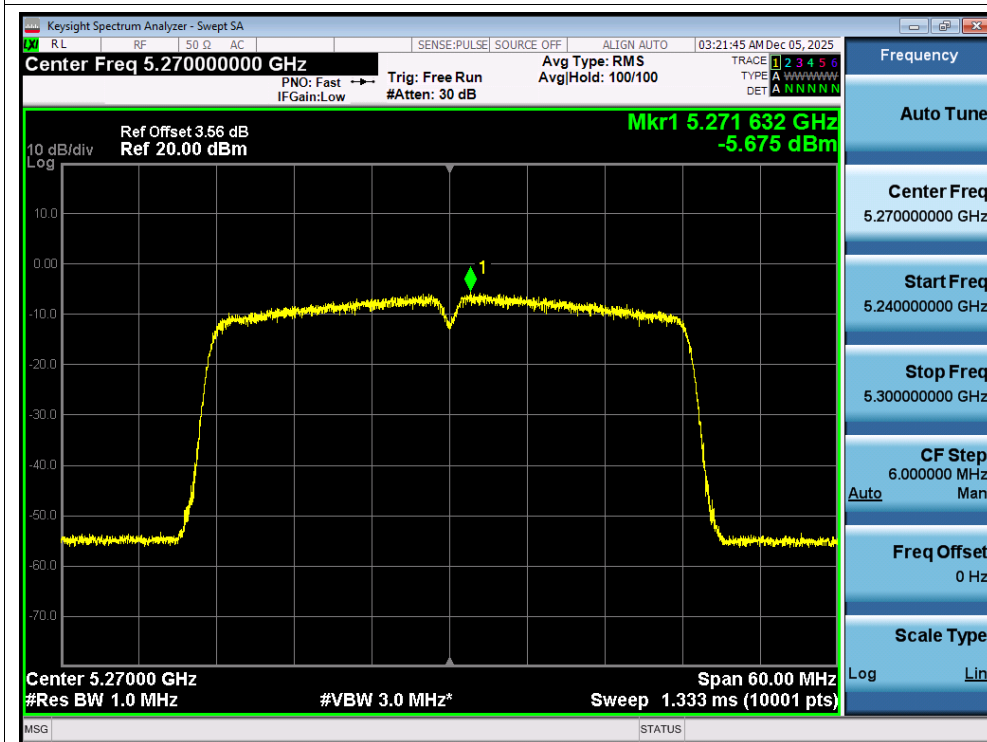
PSD NVNT n20 5280MHz Ant A



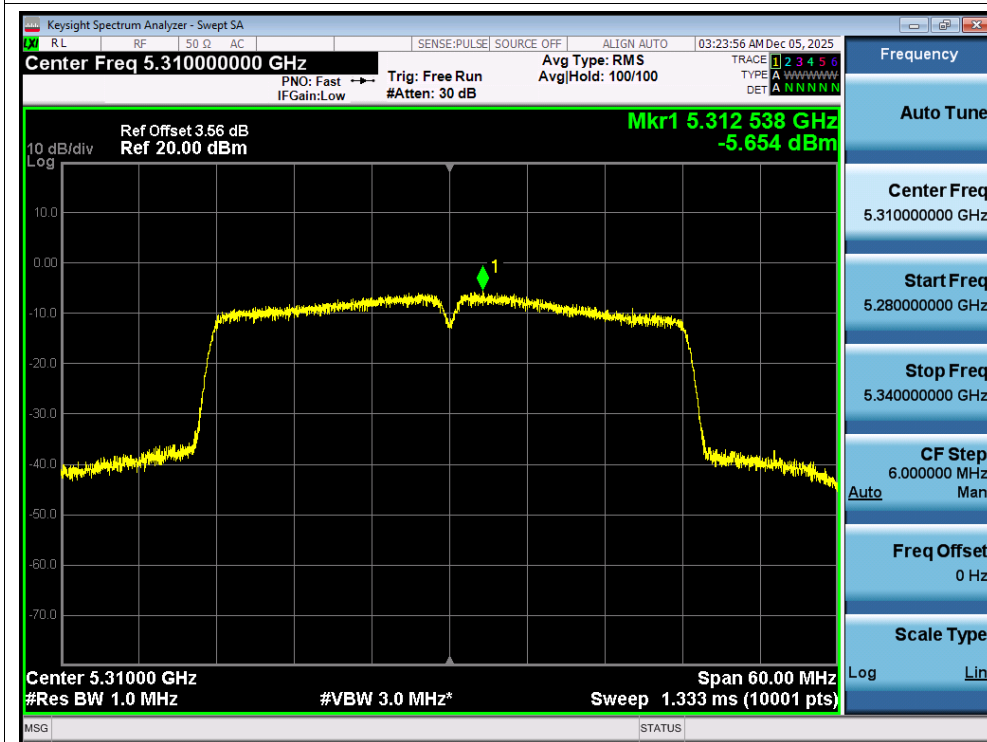
PSD NVNT n20 5320MHz Ant A



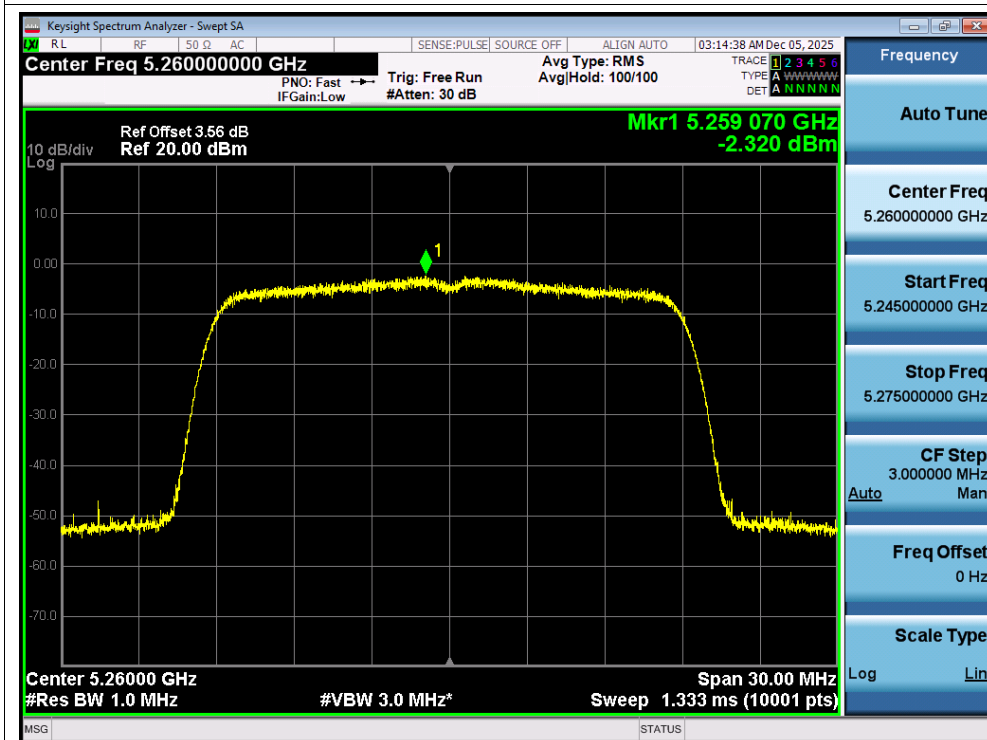
PSD NVNT n40 5270MHz Ant A



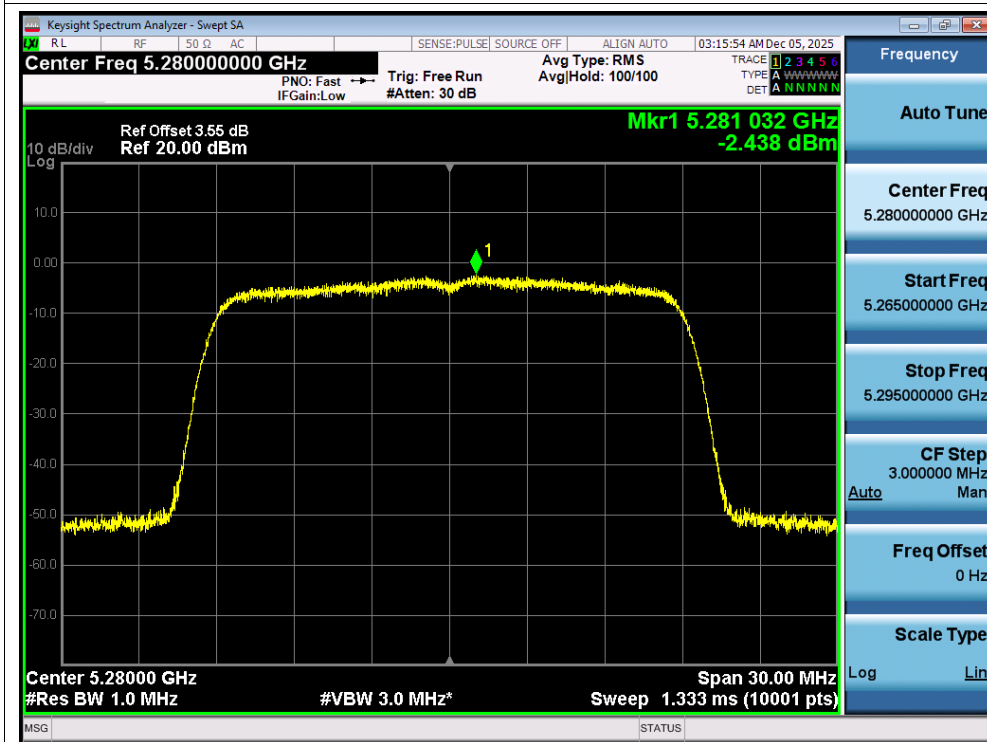
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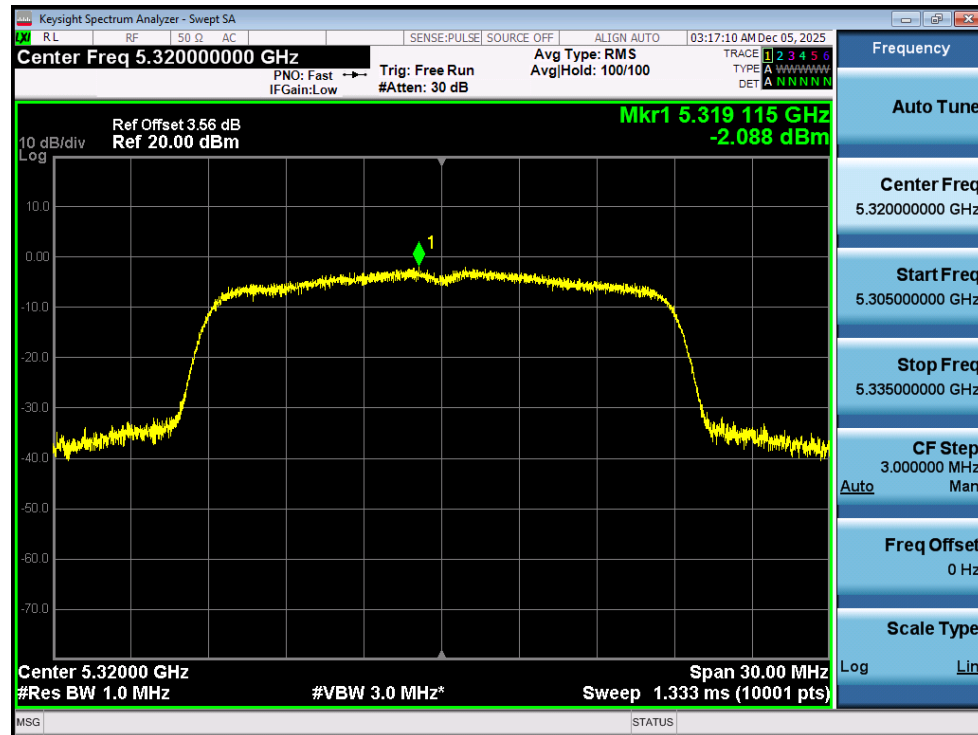
PSD NVNT ac20 5260MHz Ant A



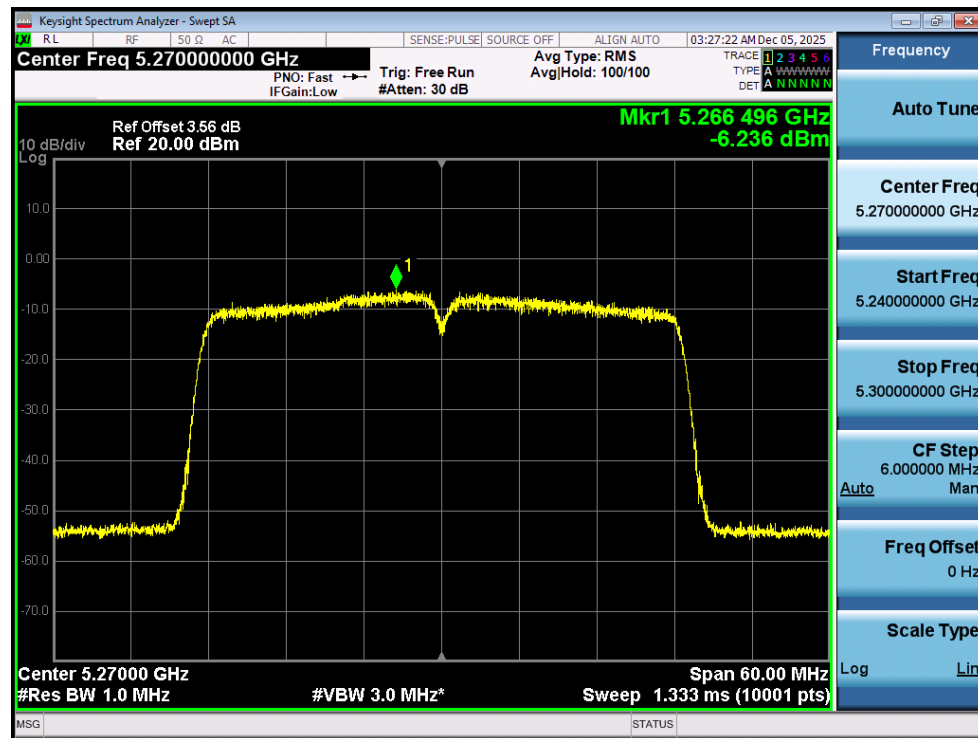
PSD NVNT ac20 5280MHz Ant A



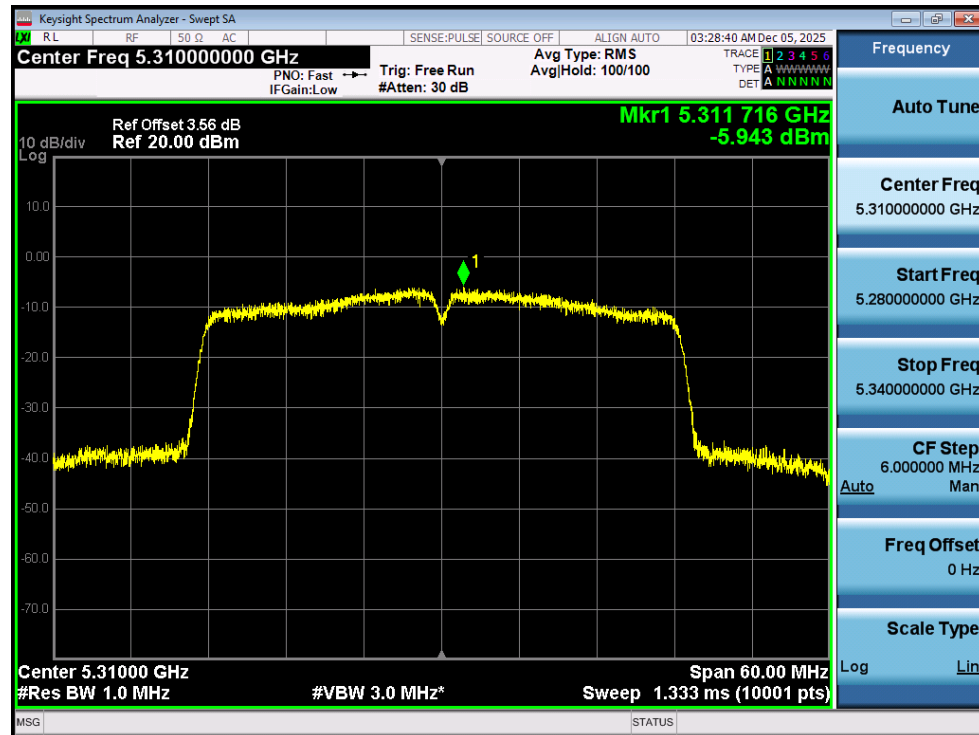
PSD NVNT ac20 5320MHz Ant A



PSD NVNT ac40 5270MHz Ant A



PSD NVNT ac40 5310MHz Ant A



PSD NVNT ac80 5290MHz Ant A

