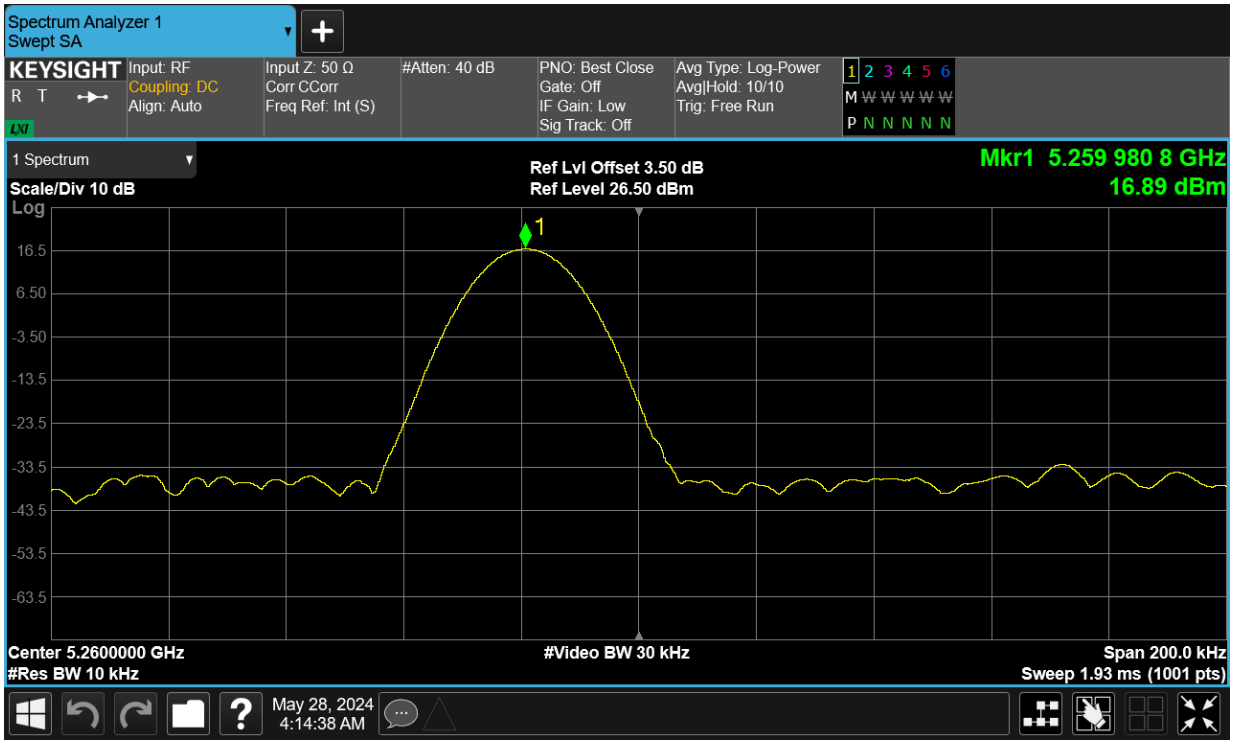
Test Data

Frequency Stability

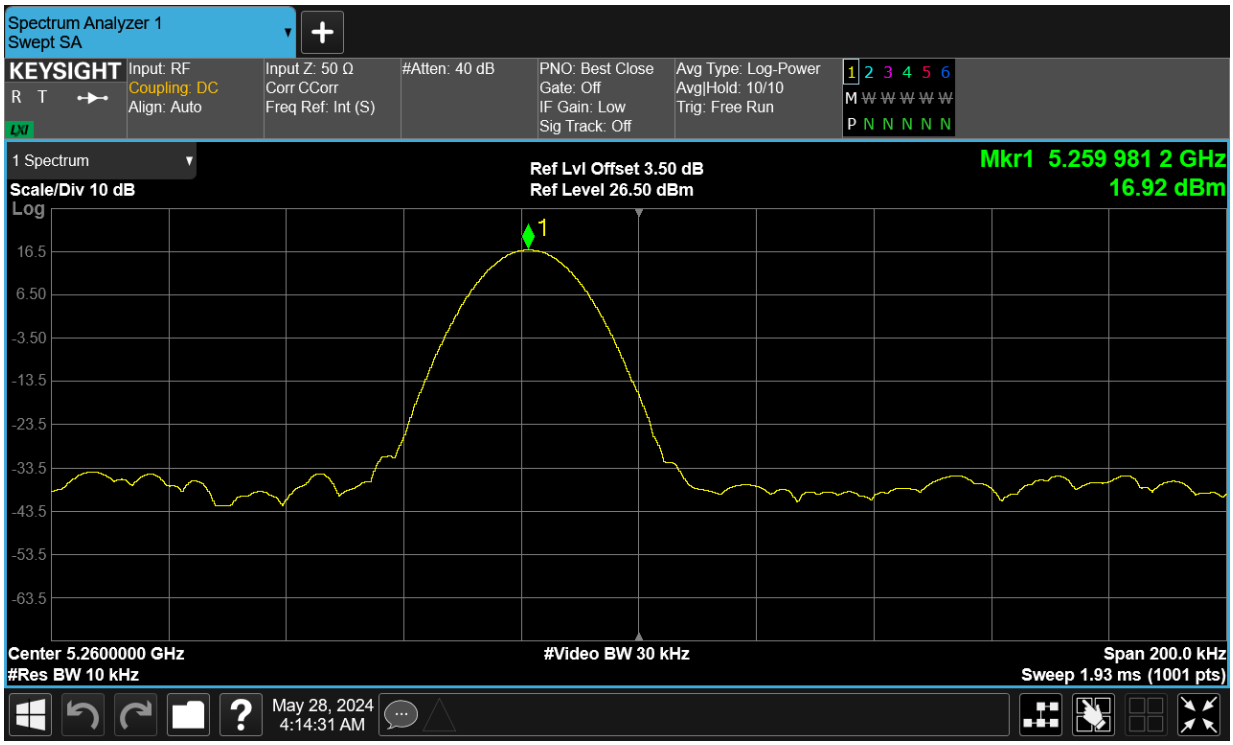
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5260	Ant12	5259.9808	-3.65	Within authorized band	Pass
LVNT	a	5260	Ant12	5259.9812	-3.57		Pass
NVHT	a	5260	Ant12	5259.9814	-3.54		Pass
NVLT	a	5260	Ant12	5259.9816	-3.5		Pass
NVNT	a	5260	Ant12	5259.982	-3.42		Pass
HVNT	ac80	5290	Ant12	5289.9818	-3.44		Pass
LVNT	ac80	5290	Ant12	5289.9822	-3.36		Pass
NVHT	ac80	5290	Ant12	5289.9824	-3.33		Pass
NVLT	ac80	5290	Ant12	5289.9828	-3.25		Pass
NVNT	ac80	5290	Ant12	5289.9834	-3.14		Pass
HVNT	n40	5270	Ant12	5269.9802	-3.76		Pass
LVNT	n40	5270	Ant12	5269.9804	-3.72		Pass
NVHT	n40	5270	Ant12	5269.9804	-3.72		Pass
NVLT	n40	5270	Ant12	5269.9804	-3.72		Pass
NVNT	n40	5270	Ant12	5269.982	-3.42		Pass

Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.

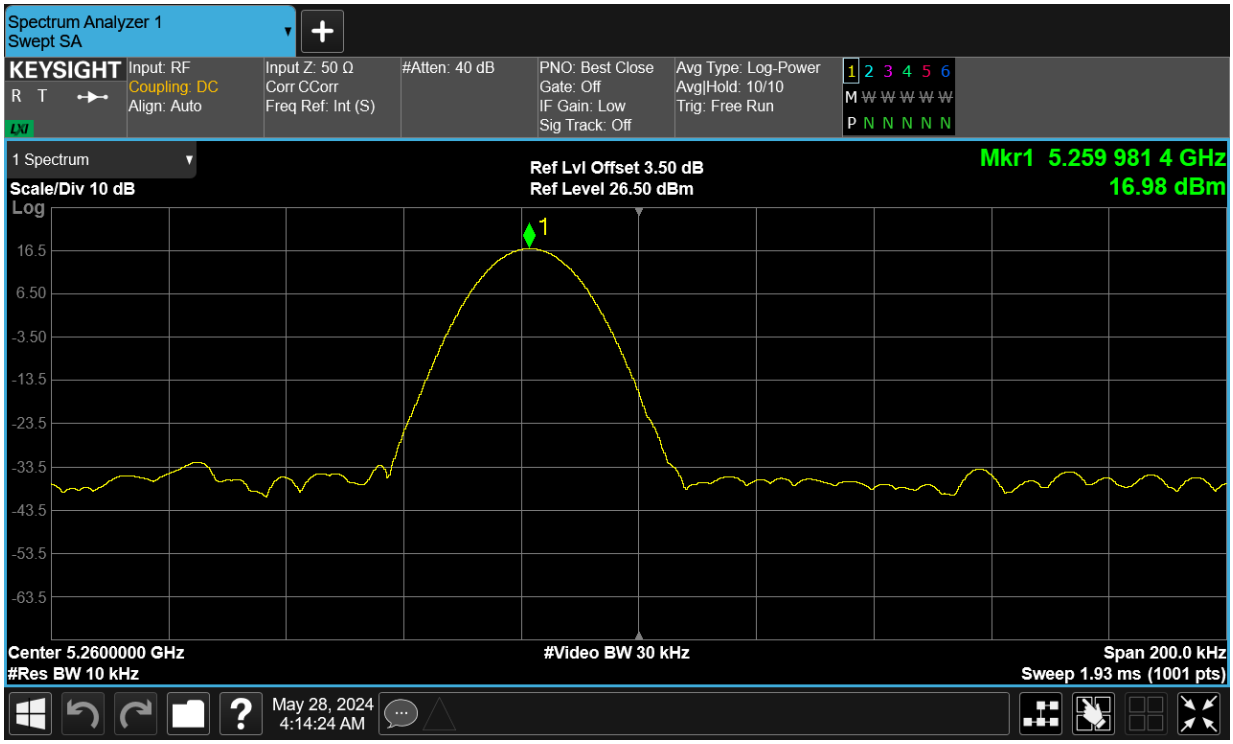
Test Graphs
Freq. Stability HVNT a 5260MHz Ant12



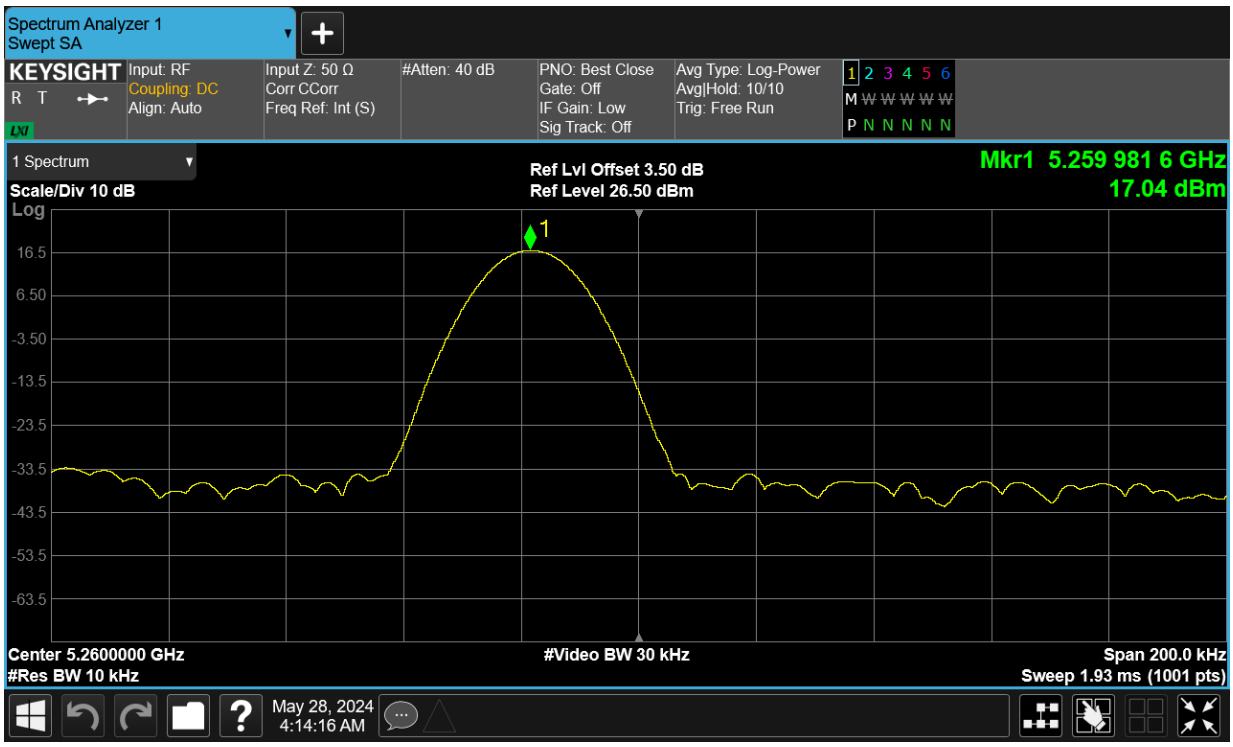
Freq. Stability LVNT a 5260MHz Ant12



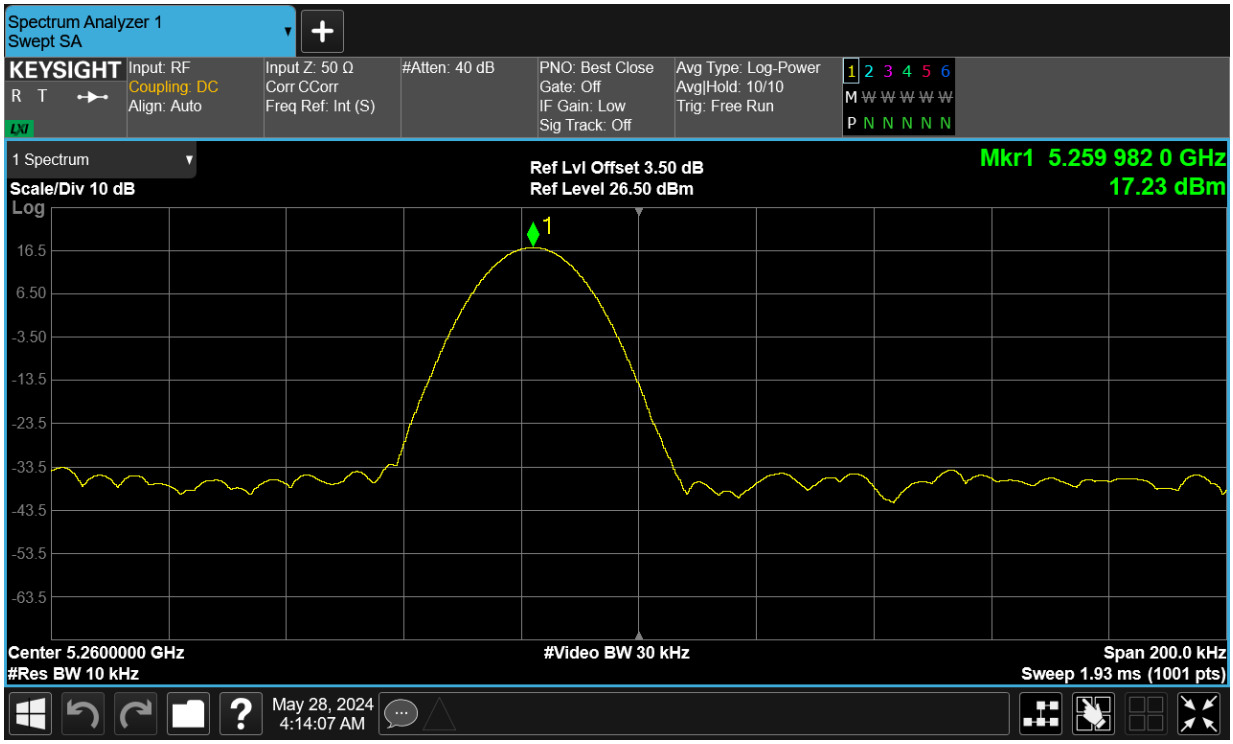
Freq. Stability NVHT a 5260MHz Ant12



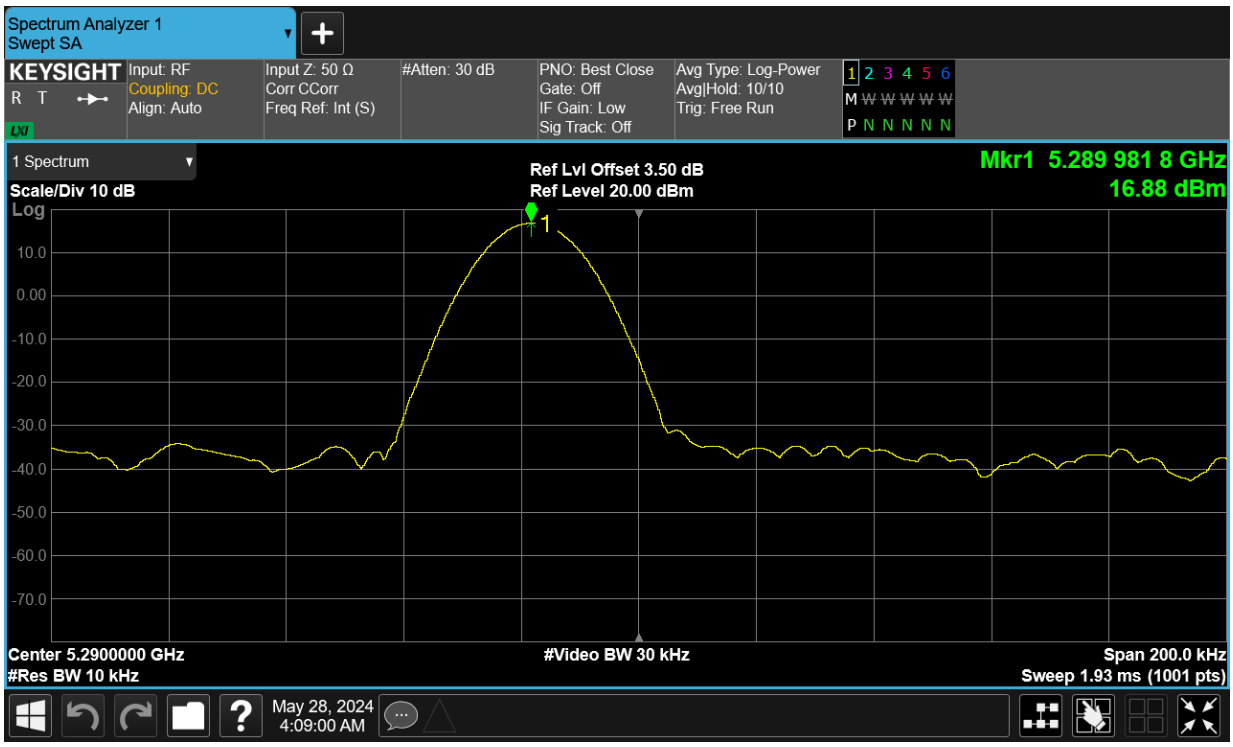
Freq. Stability NVLT a 5260MHz Ant12



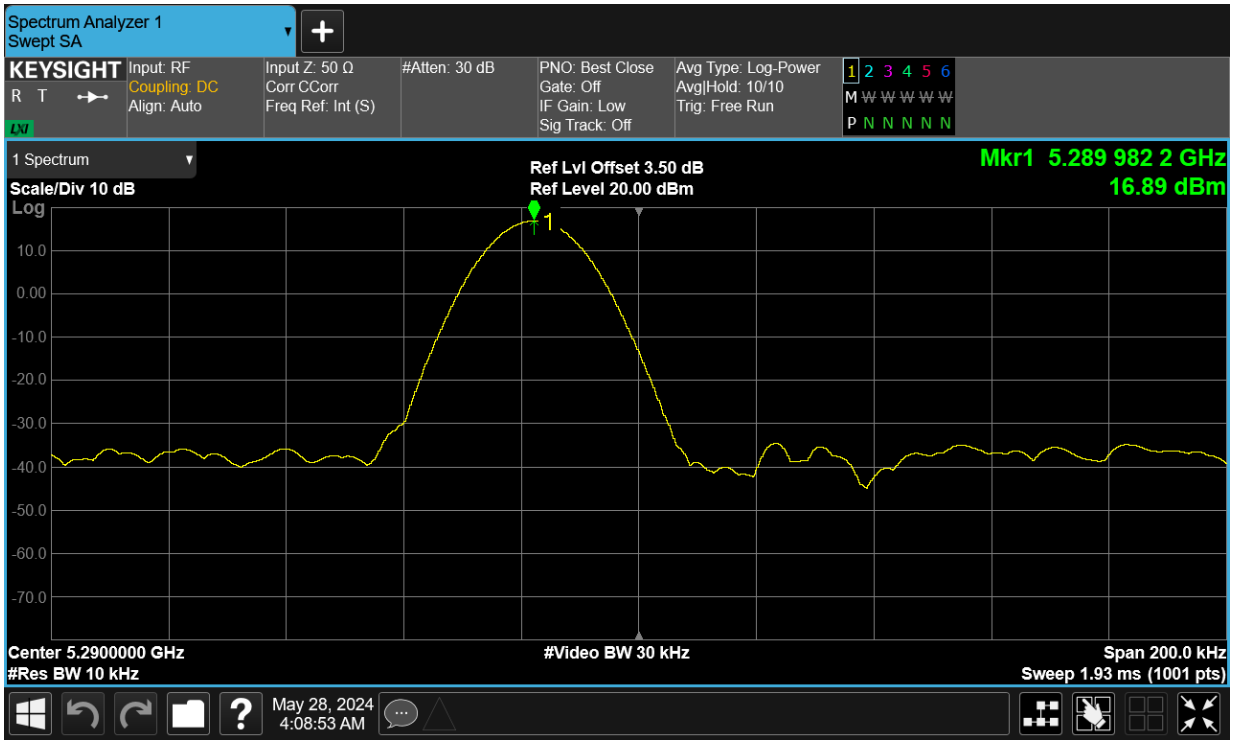
Freq. Stability NVNT a 5260MHz Ant12



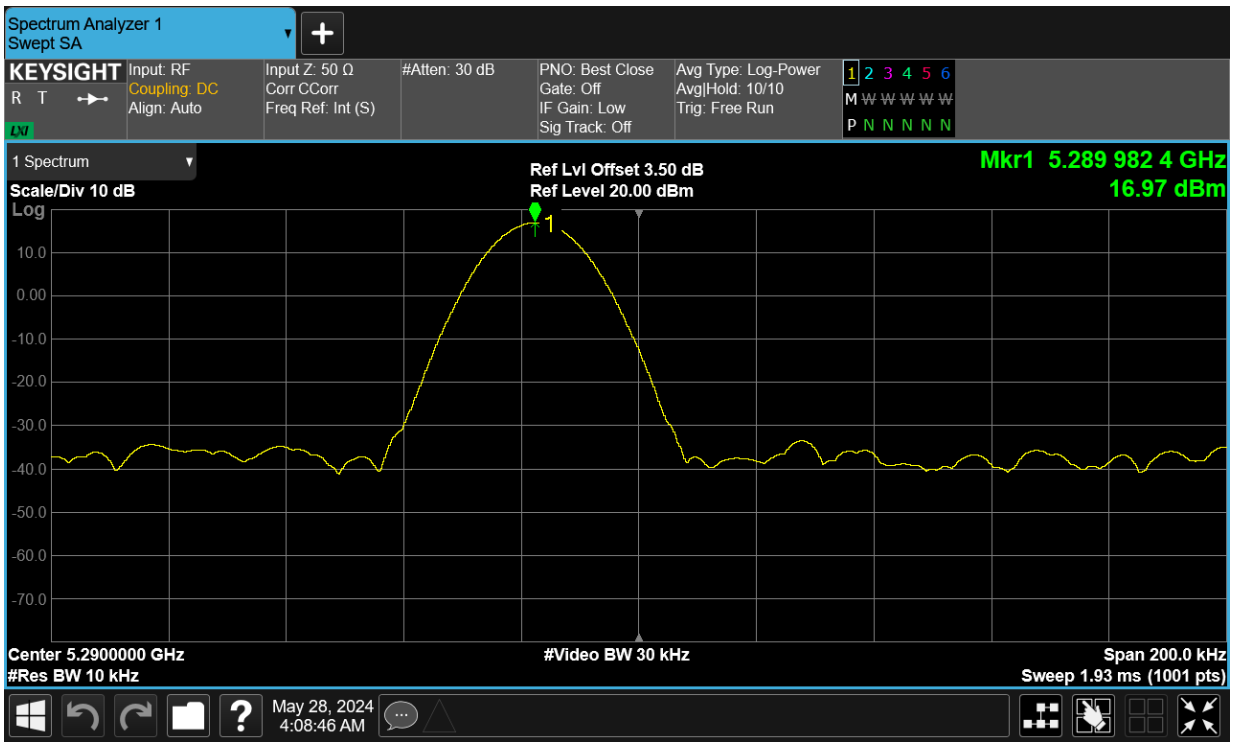
Freq. Stability HVNT ac80 5290MHz Ant12



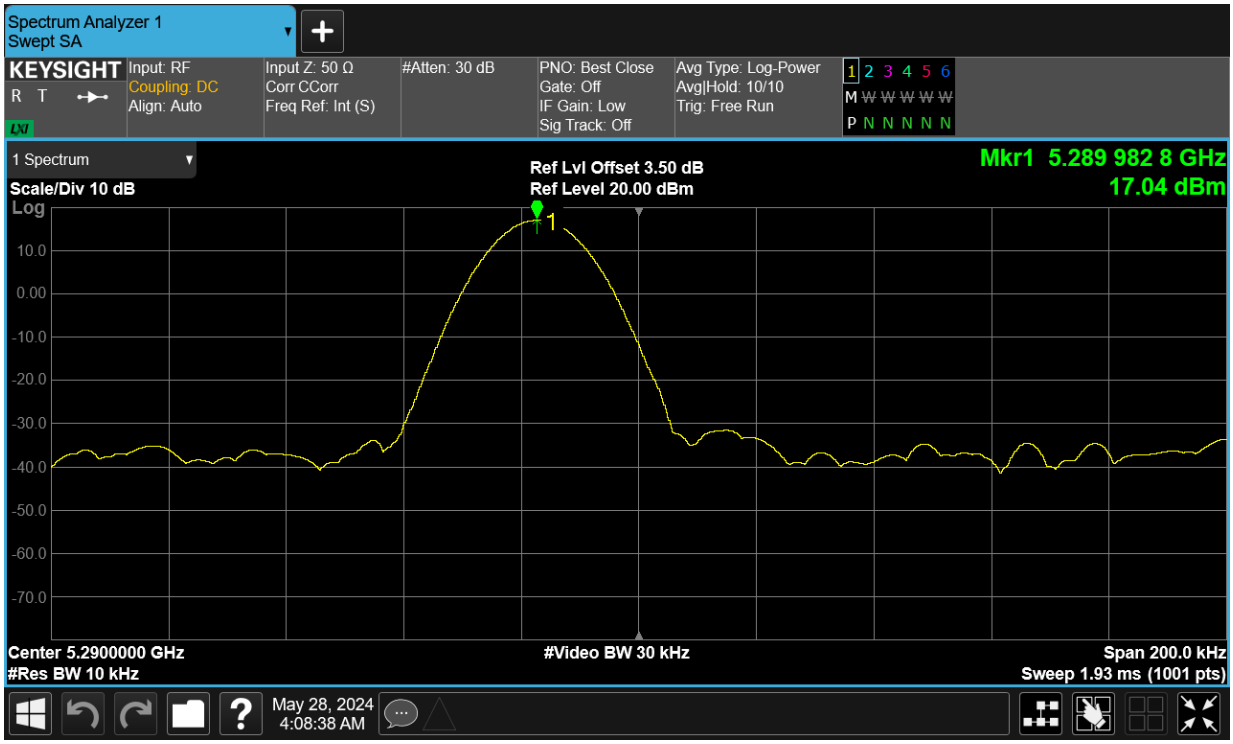
Freq. Stability LVNT ac80 5290MHz Ant12



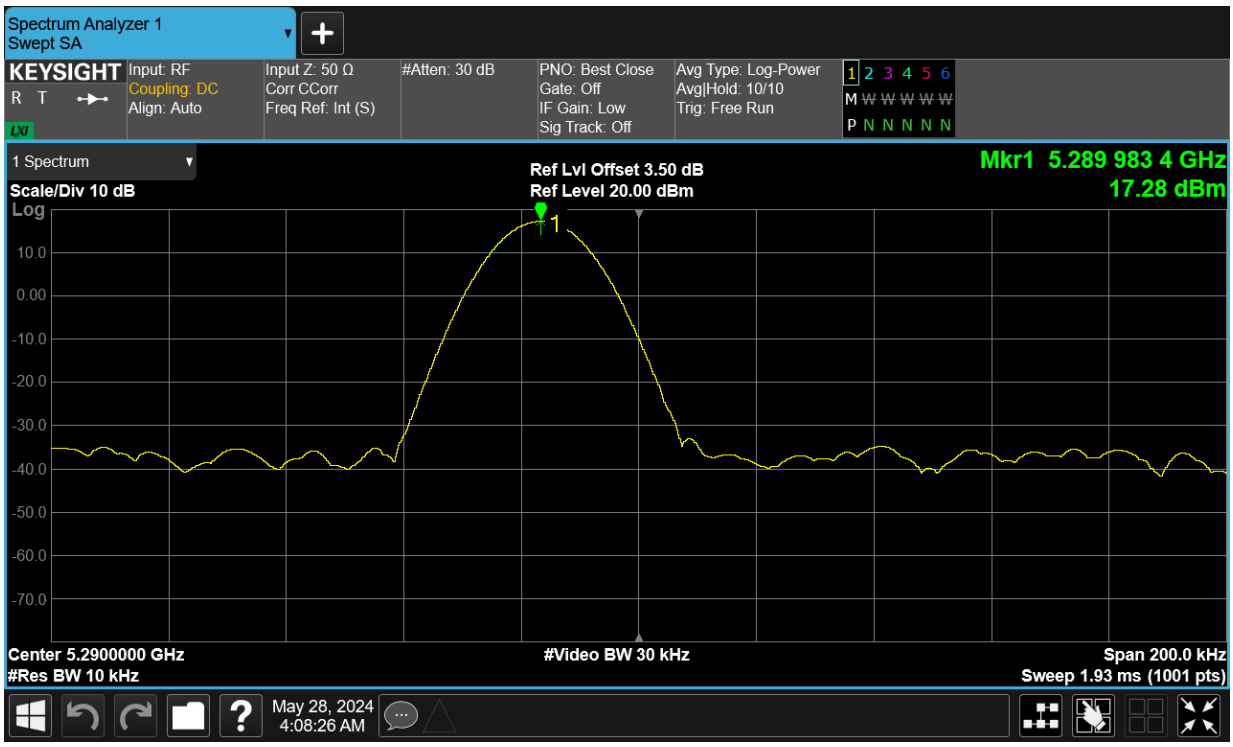
Freq. Stability NVHT ac80 5290MHz Ant12



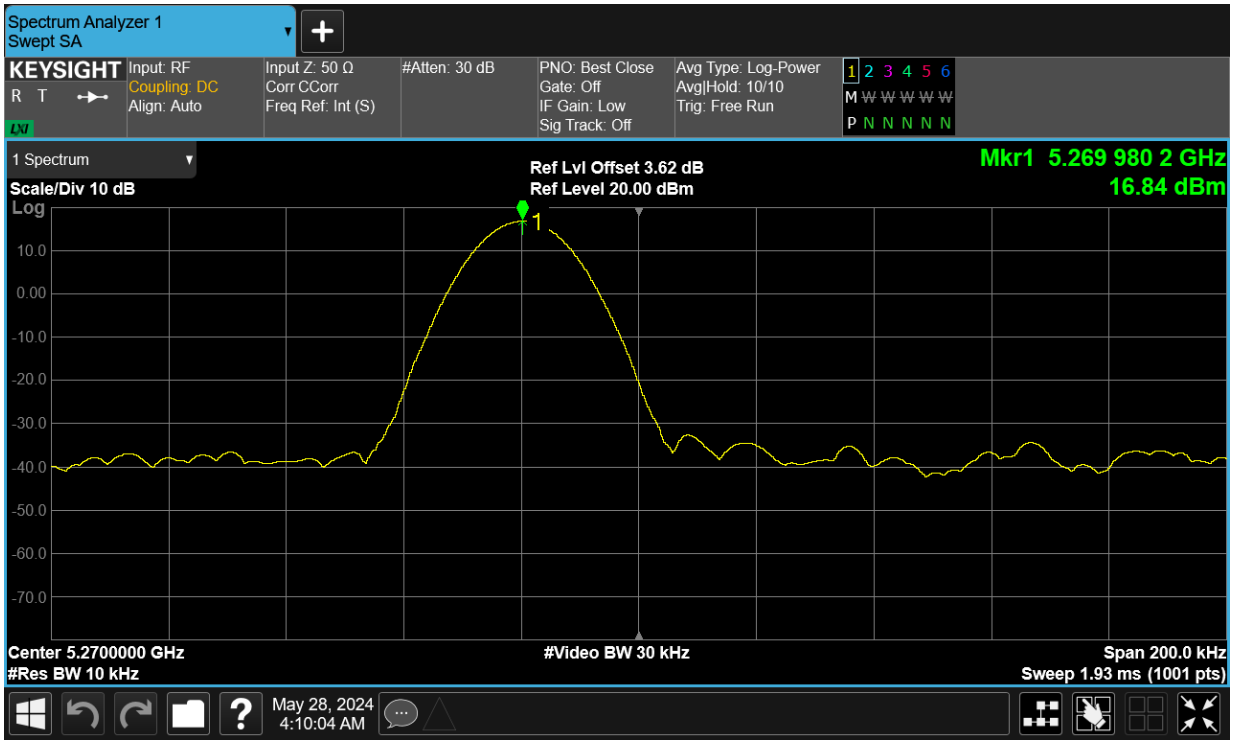
Freq. Stability NVLT ac80 5290MHz Ant12



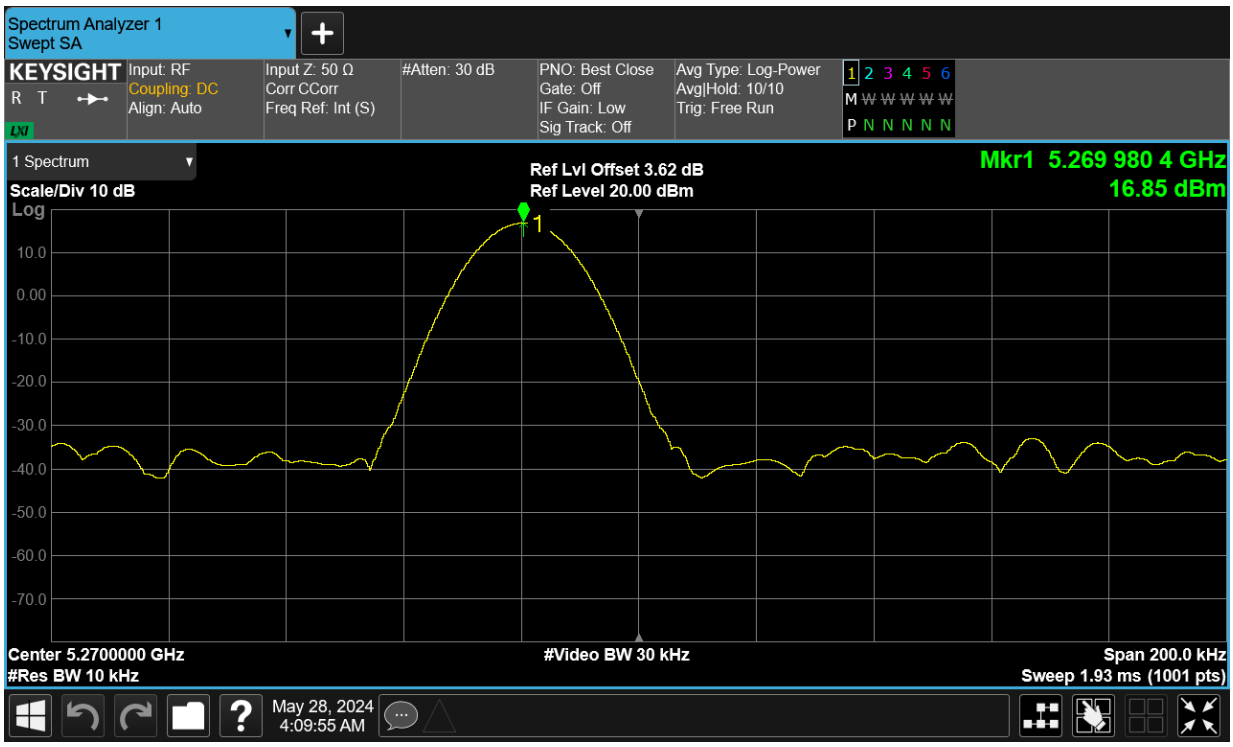
Freq. Stability NVNT ac80 5290MHz Ant12



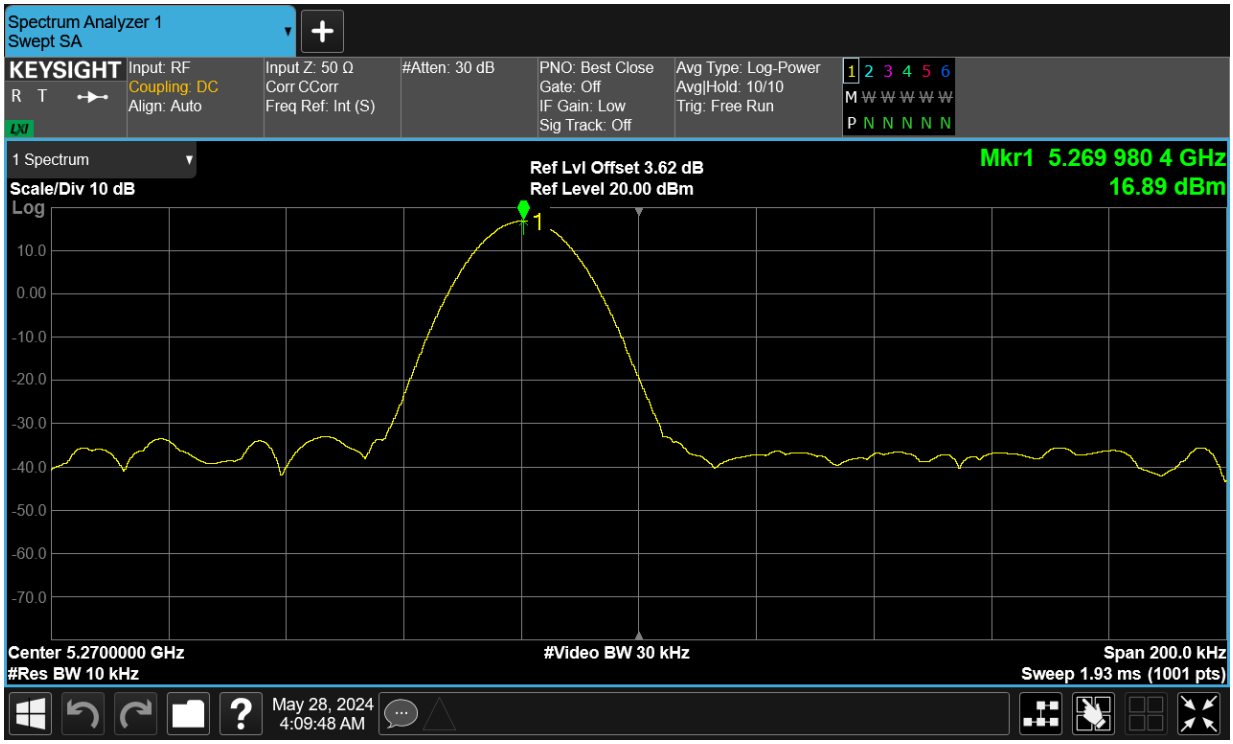
Freq. Stability HVNT n40 5270MHz Ant12



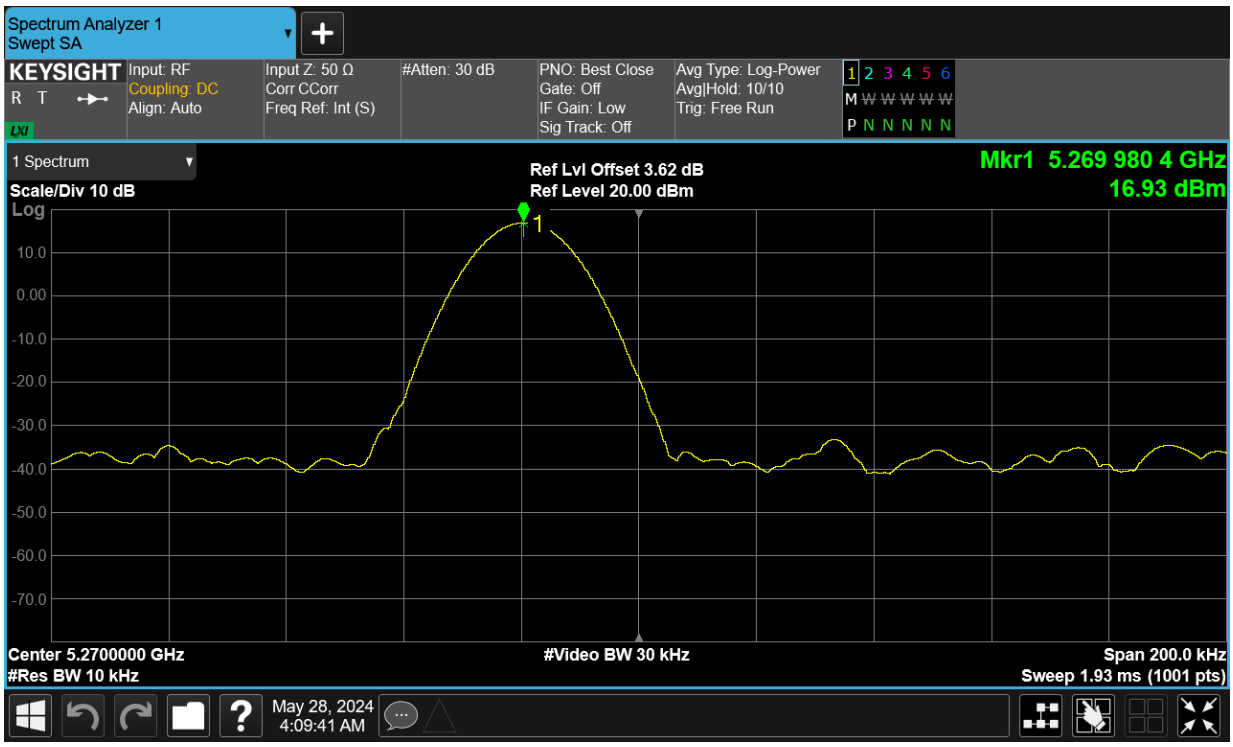
Freq. Stability LVNT n40 5270MHz Ant12



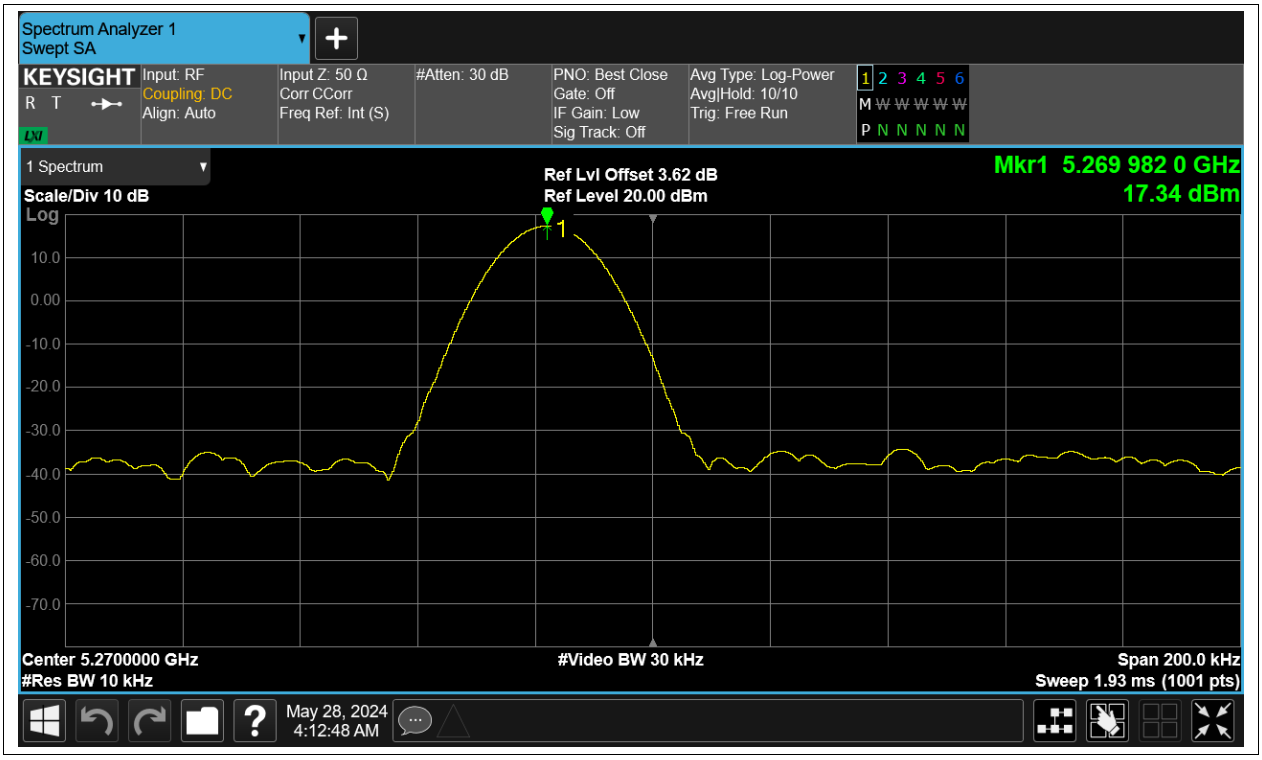
Freq. Stability NVHT n40 5270MHz Ant12



Freq. Stability NVLT n40 5270MHz Ant12



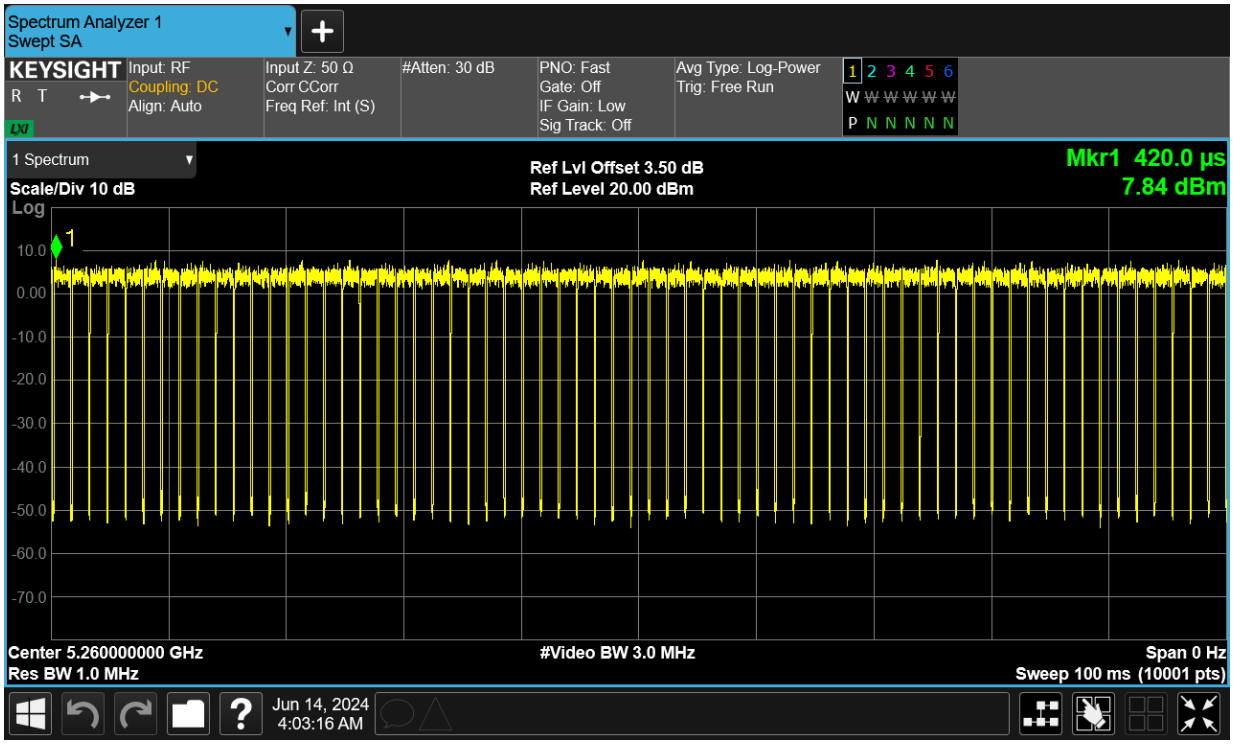
Freq. Stability NVNT n40 5270MHz Ant12


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Best Close
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 3.62 dB
Ref Level 20.00 dBm
Mkr1 5.269 982 0 GHz
17.34 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.2700000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 200.0 kHz
Sweep 1.93 ms (1001 pts)
May 28, 2024
4:12:48 AM

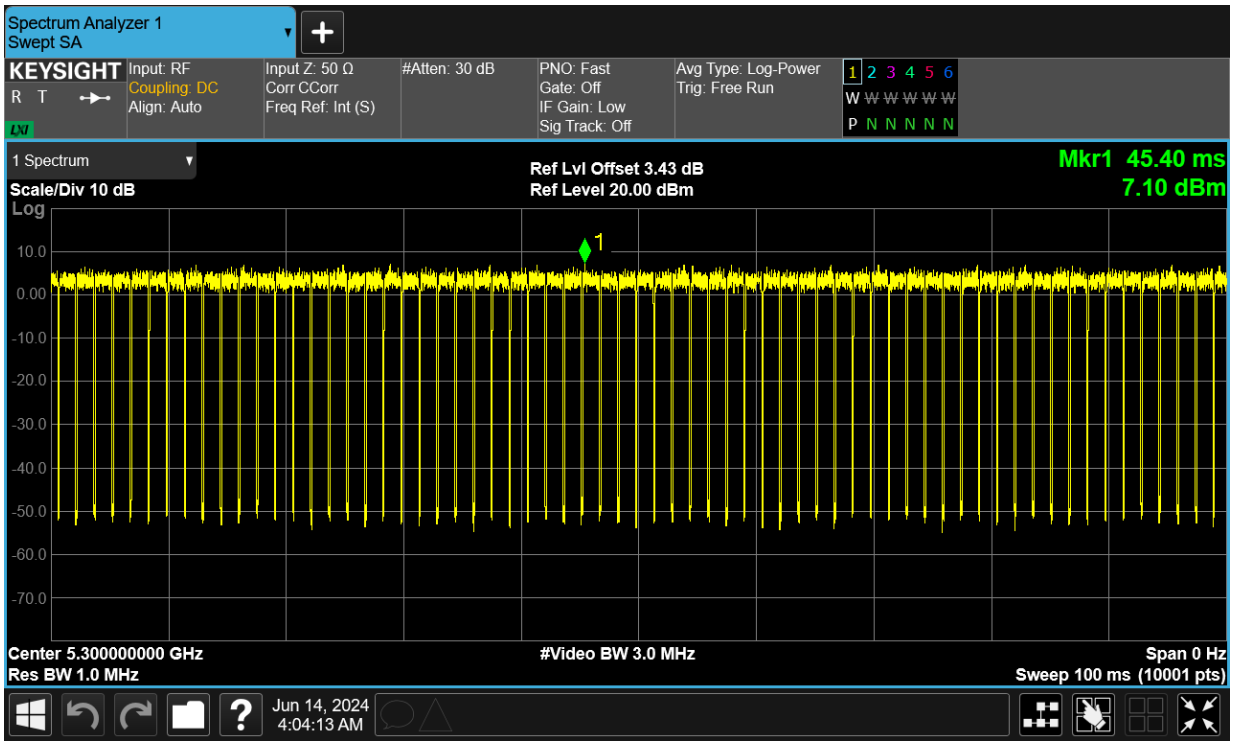
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant12	91.29	0.4
NVNT	a	5300	Ant12	91.42	0.39
NVNT	a	5320	Ant12	91.32	0.39
NVNT	ac20	5260	Ant12	89.73	0.47
NVNT	ac20	5300	Ant12	89.66	0.47
NVNT	ac20	5320	Ant12	89.74	0.47
NVNT	ac40	5270	Ant12	81.61	0.88
NVNT	ac40	5310	Ant12	81.08	0.91
NVNT	ac80	5290	Ant12	69.72	1.57
NVNT	n20	5260	Ant12	89.75	0.47
NVNT	n20	5300	Ant12	89.78	0.47
NVNT	n20	5320	Ant12	89.94	0.46
NVNT	n40	5270	Ant12	82.12	0.86
NVNT	n40	5310	Ant12	81.65	0.88

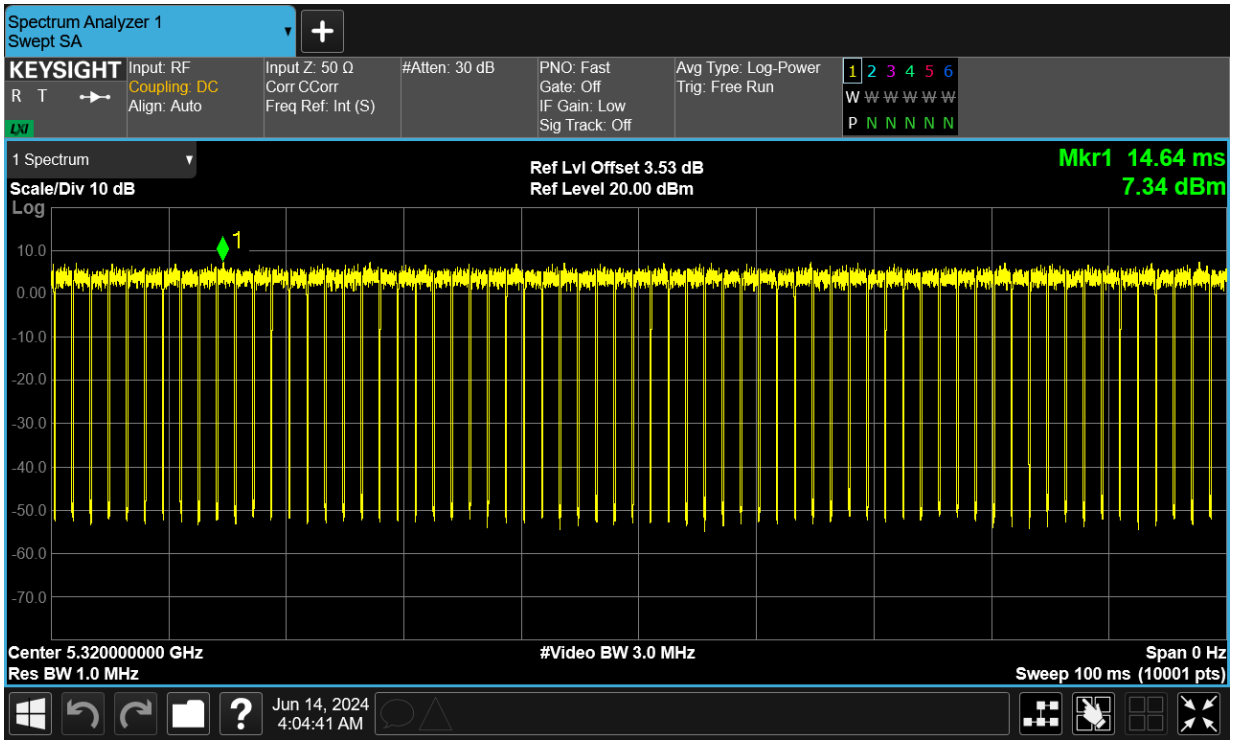
Test Graphs
Duty Cycle NVNT a 5260MHz Ant12



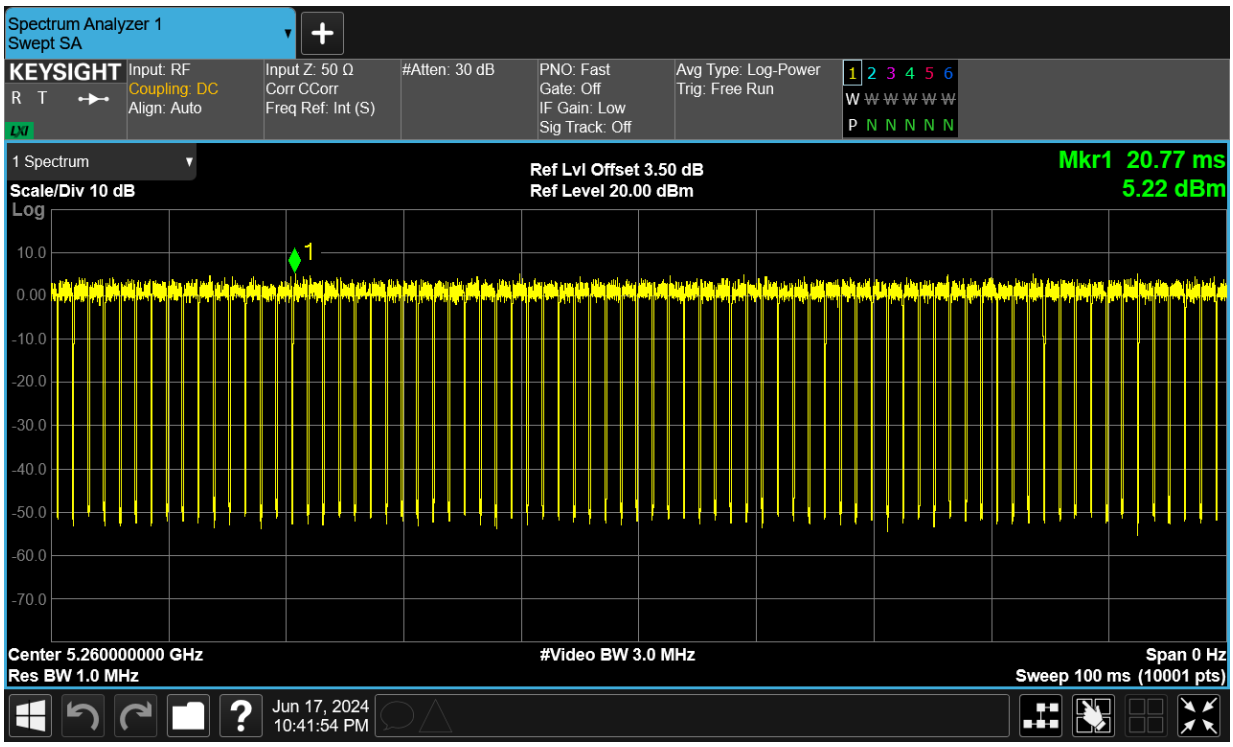
Duty Cycle NVNT a 5300MHz Ant12



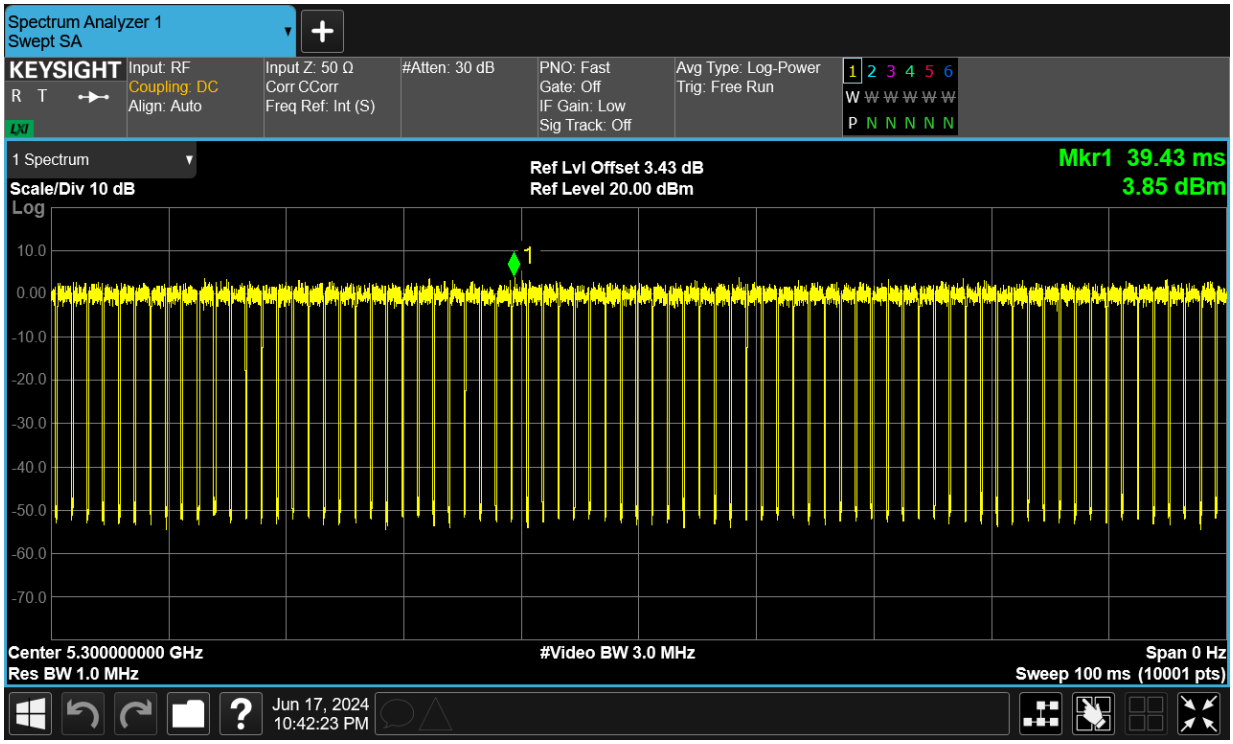
Duty Cycle NVNT a 5320MHz Ant12



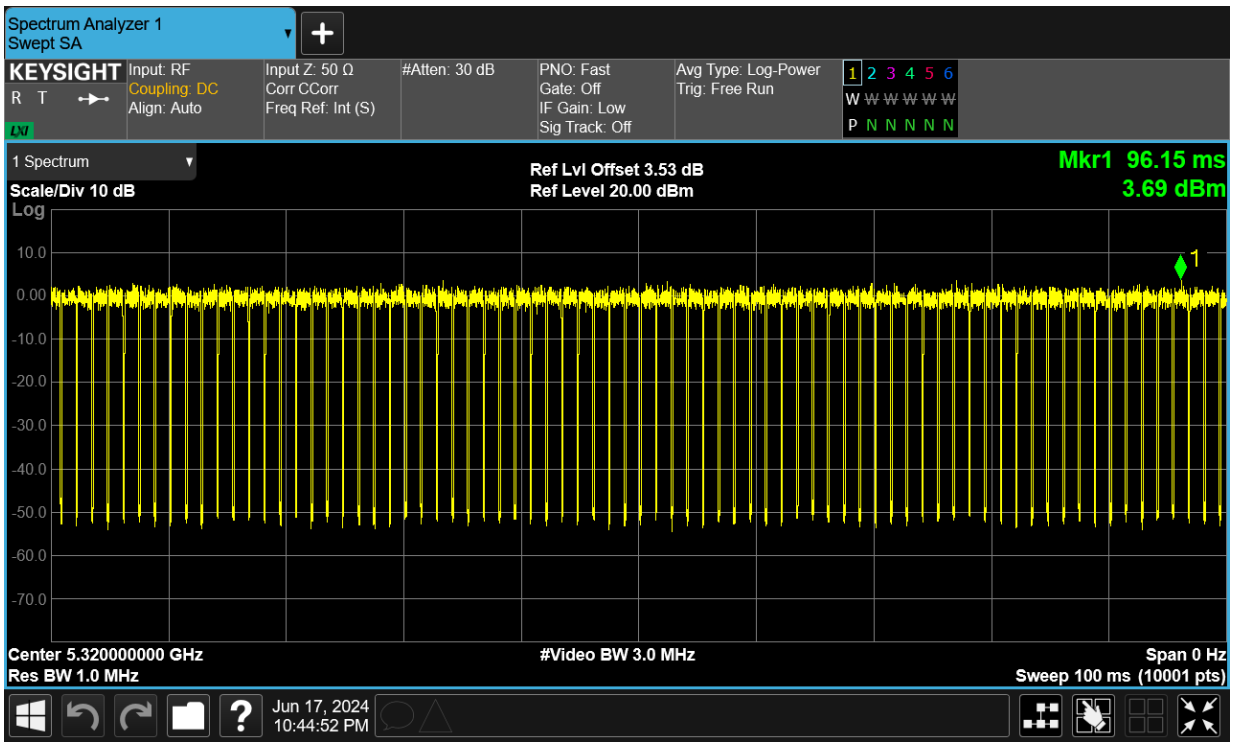
Duty Cycle NVNT ac20 5260MHz Ant12



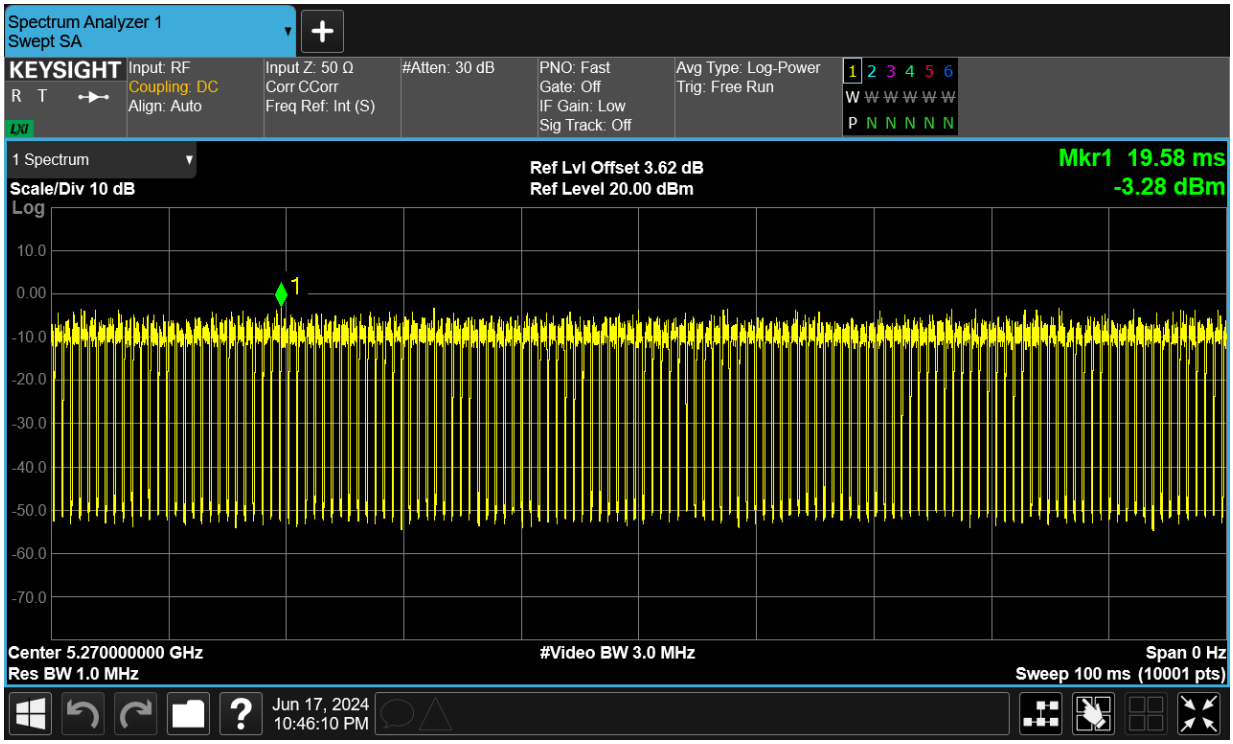
Duty Cycle NVNT ac20 5300MHz Ant12



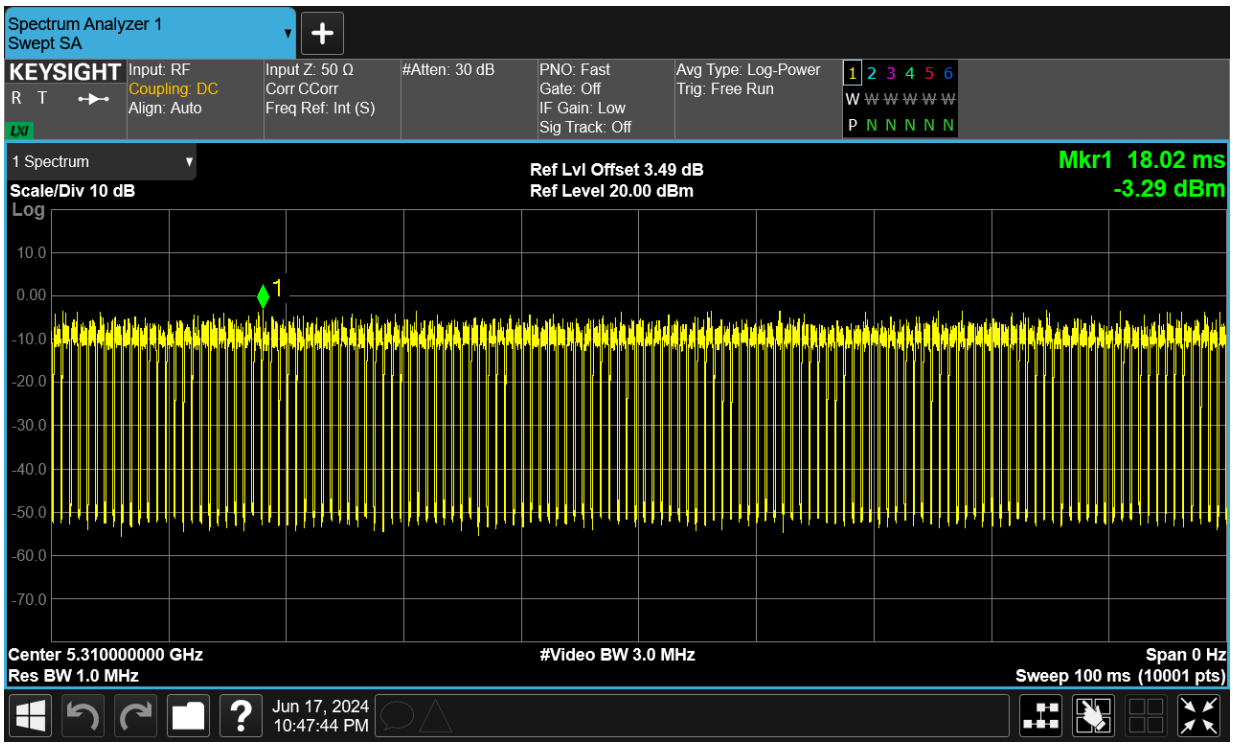
Duty Cycle NVNT ac20 5320MHz Ant12



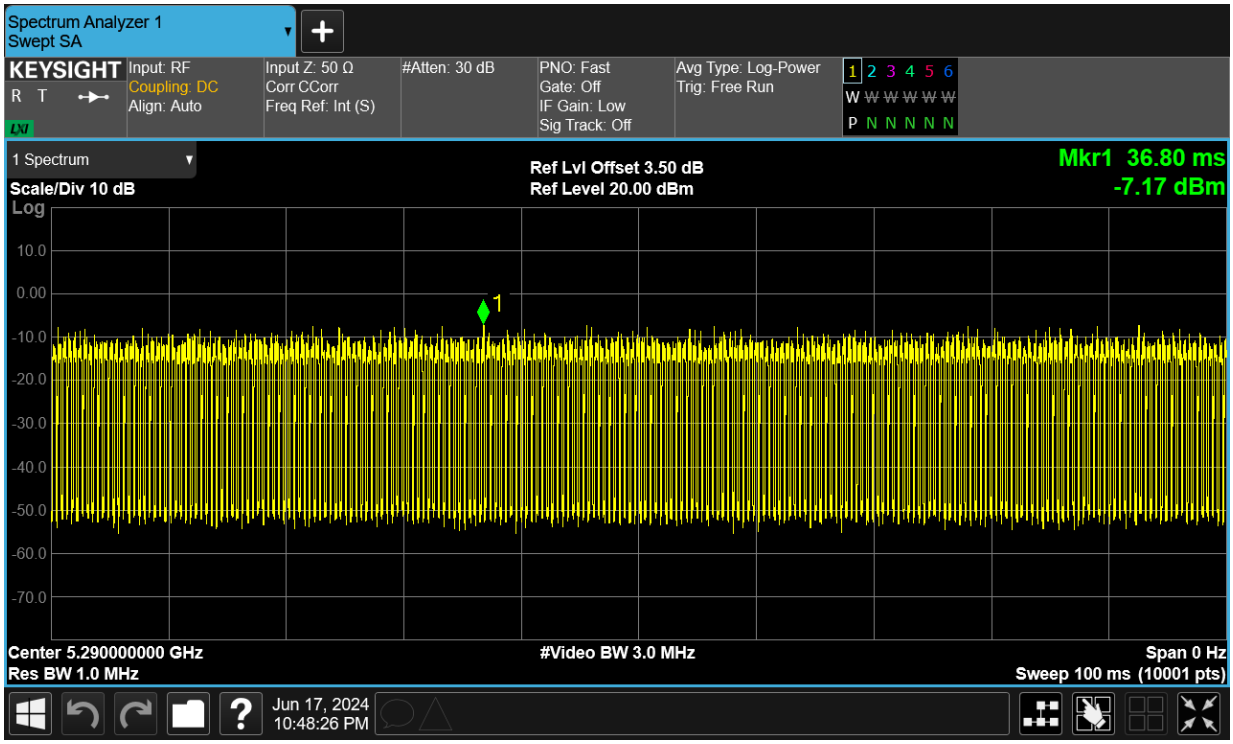
Duty Cycle NVNT ac40 5270MHz Ant12



Duty Cycle NVNT ac40 5310MHz Ant12

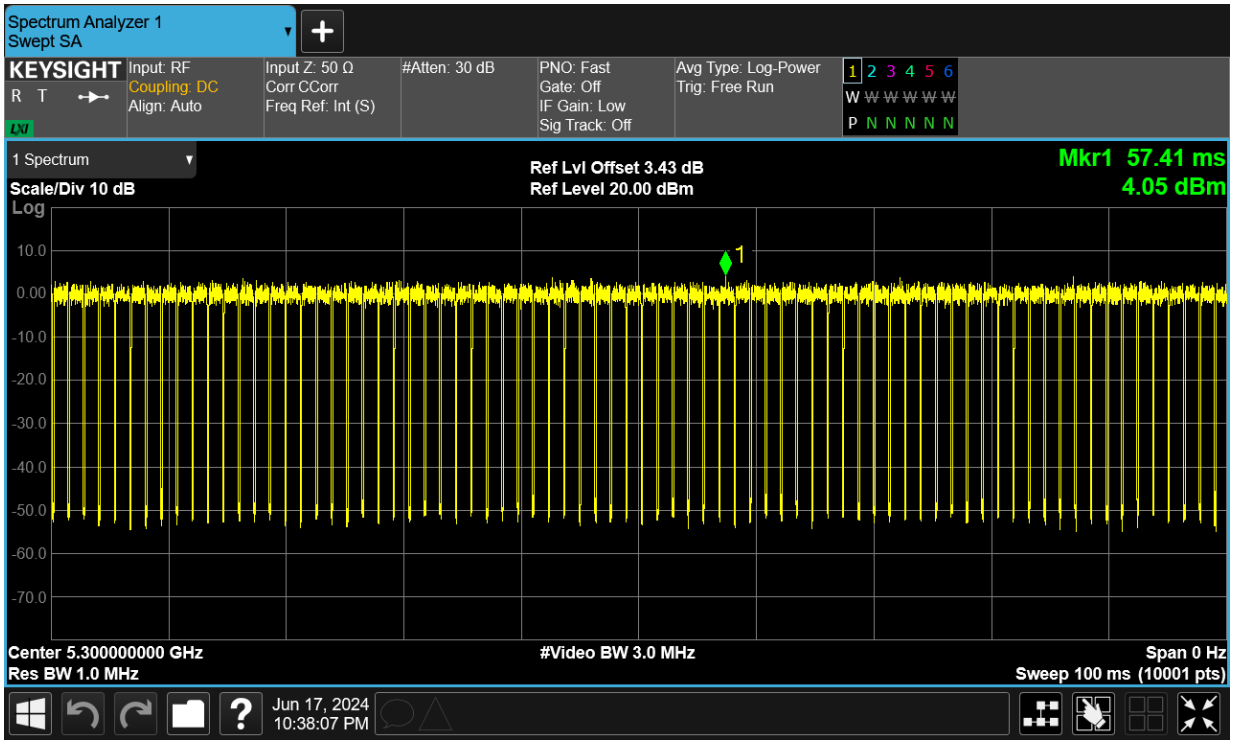


Duty Cycle NVNT ac80 5290MHz Ant12

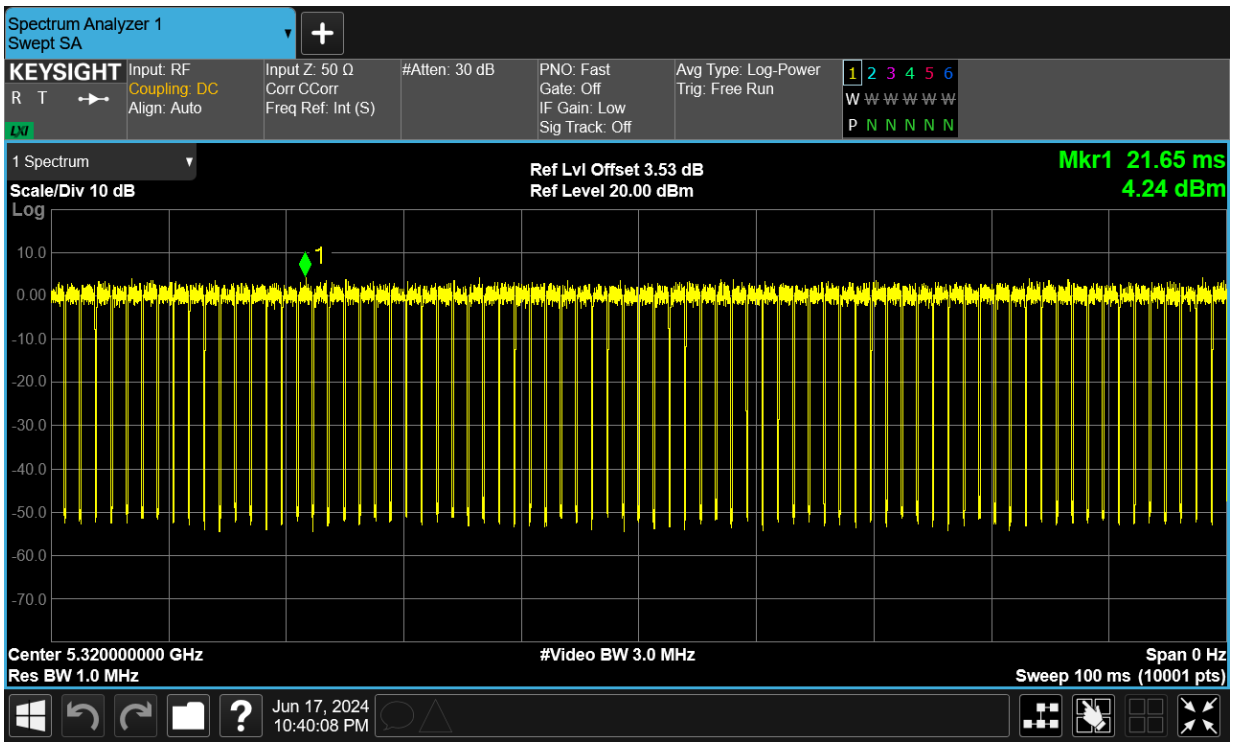


Duty Cycle NVNT n20 5260MHz Ant12

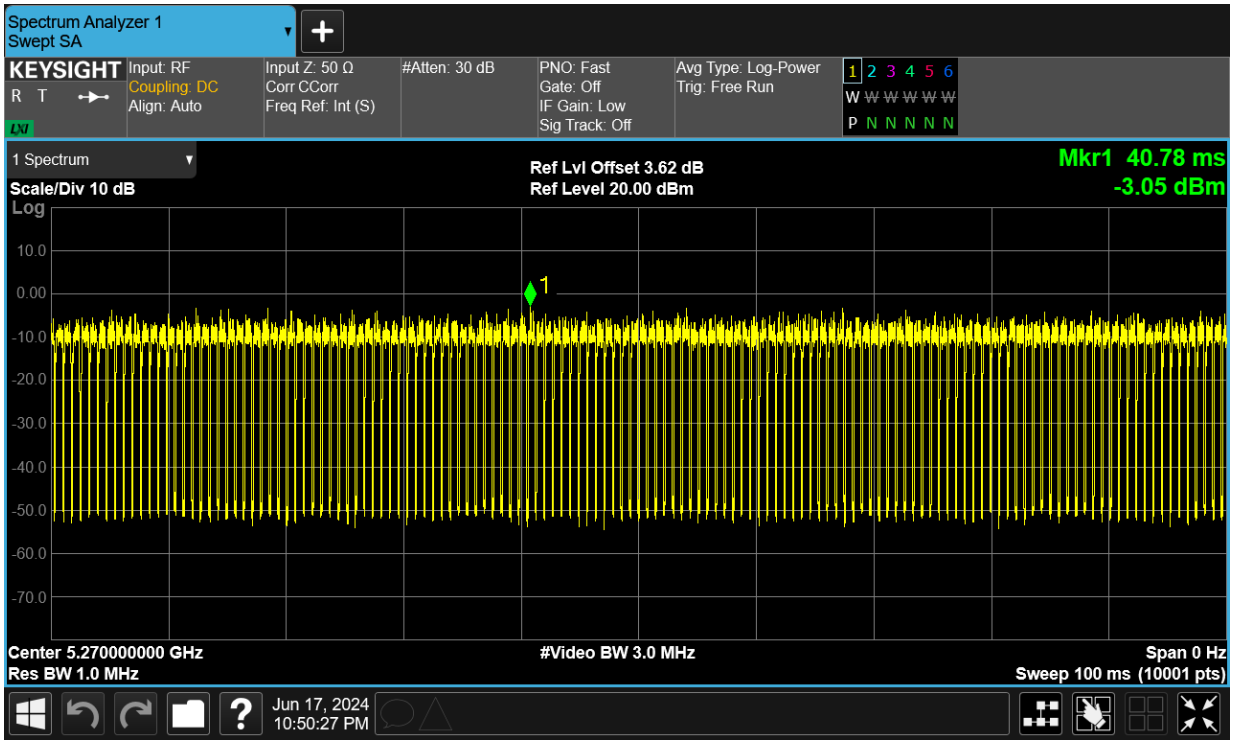
Duty Cycle NVNT n20 5300MHz Ant12



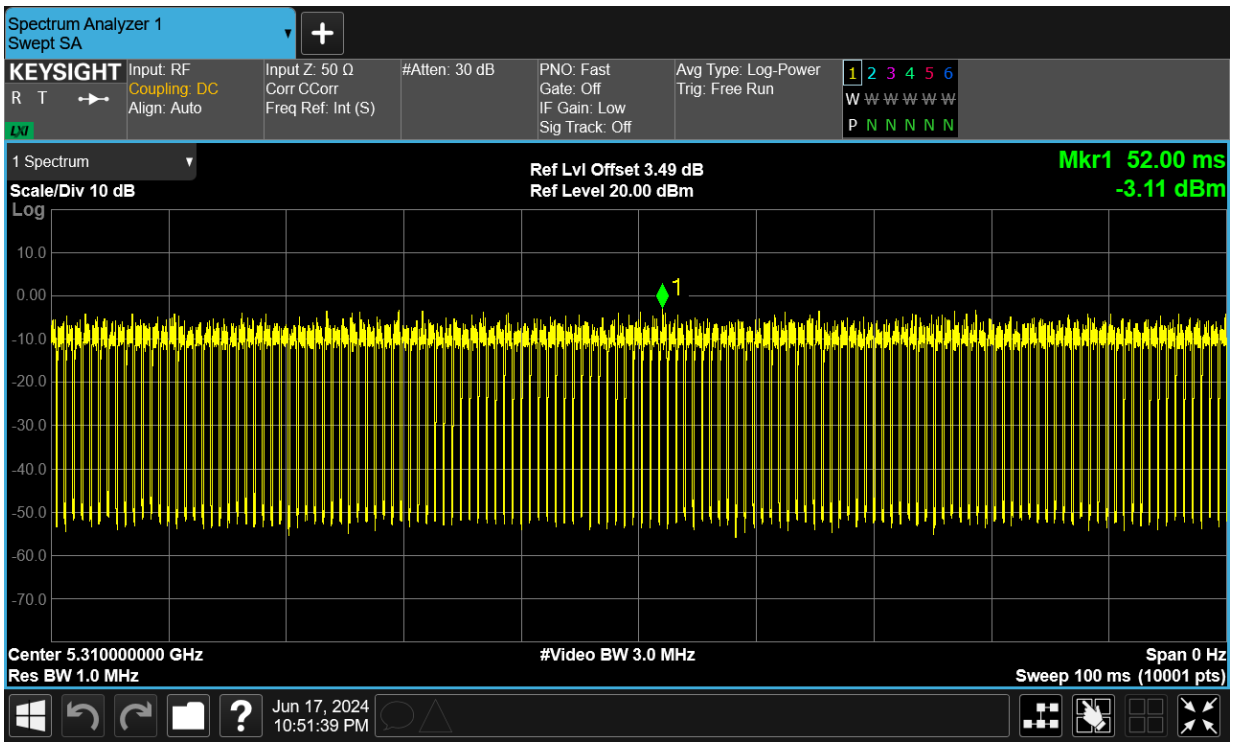
Duty Cycle NVNT n20 5320MHz Ant12



Duty Cycle NVNT n40 5270MHz Ant12



Duty Cycle NVNT n40 5310MHz Ant12



Maximum Conducted Output Power

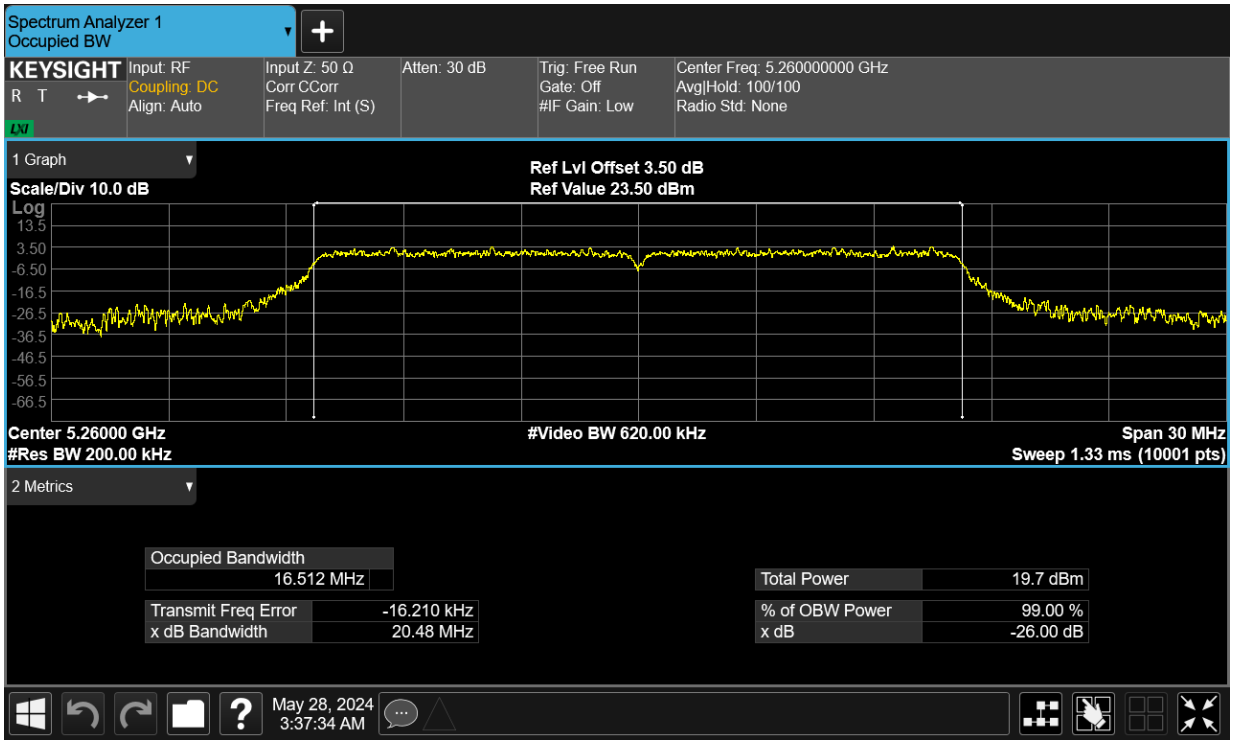
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant12	12.15	0.4	12.55	24	Pass
NVNT	a	5300	Ant12	12.2	0.39	12.59	24	Pass
NVNT	a	5320	Ant12	12.28	0.39	12.67	24	Pass
NVNT	ac20	5260	Ant12	9.55	0.47	10.02	24	Pass
NVNT	ac20	5300	Ant12	8.91	0.47	9.38	24	Pass
NVNT	ac20	5320	Ant12	8.78	0.47	9.25	24	Pass
NVNT	ac40	5270	Ant12	5.82	0.88	6.7	24	Pass
NVNT	ac40	5310	Ant12	5.98	0.91	6.89	24	Pass
NVNT	ac80	5290	Ant12	5.15	1.57	6.72	24	Pass
NVNT	n20	5260	Ant12	9.31	0.47	9.78	24	Pass
NVNT	n20	5300	Ant12	9.43	0.47	9.9	24	Pass
NVNT	n20	5320	Ant12	9.56	0.46	10.02	24	Pass
NVNT	n40	5270	Ant12	5.7	0.86	6.56	24	Pass
NVNT	n40	5310	Ant12	5.99	0.88	6.87	24	Pass

Occupied Channel Bandwidth

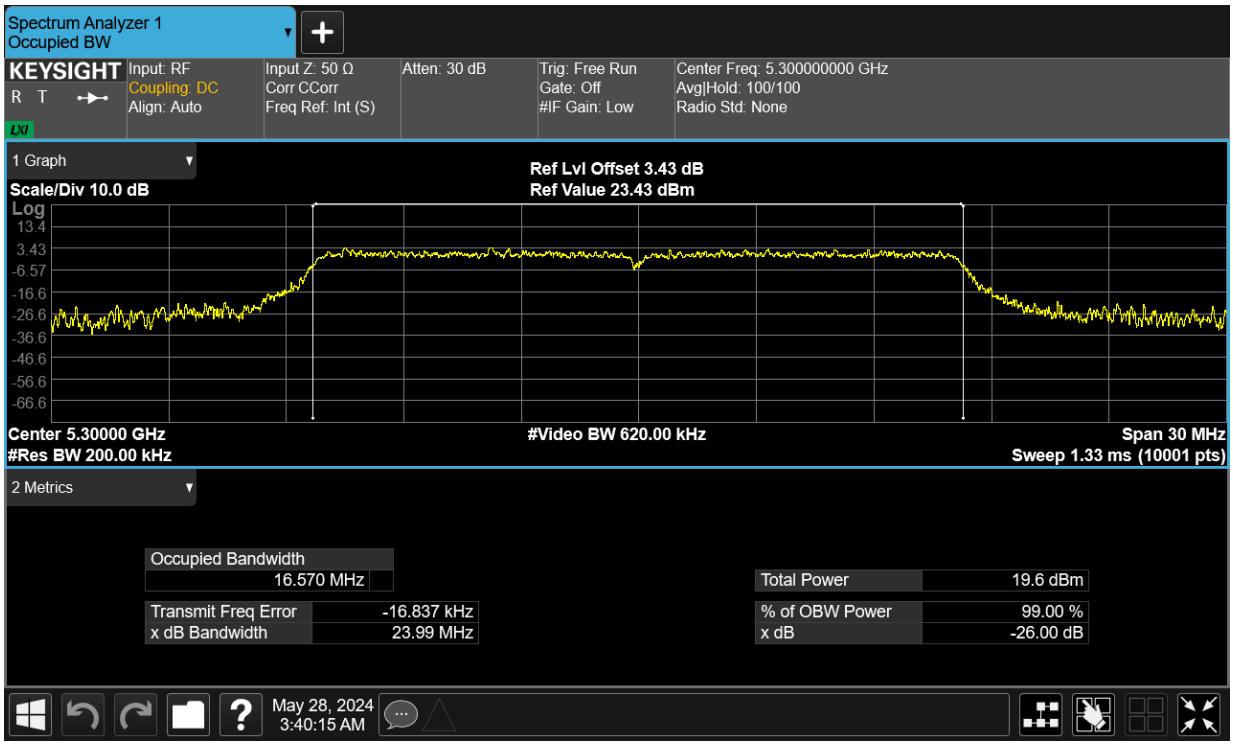
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant12	16.512
NVNT	a	5300	Ant12	16.57
NVNT	a	5320	Ant12	16.55
NVNT	ac20	5260	Ant12	17.598
NVNT	ac20	5300	Ant12	17.603
NVNT	ac20	5320	Ant12	17.602
NVNT	ac40	5270	Ant12	36.171
NVNT	ac40	5310	Ant12	36.162
NVNT	ac80	5290	Ant12	75.442
NVNT	n20	5260	Ant12	17.615
NVNT	n20	5300	Ant12	17.619
NVNT	n20	5320	Ant12	17.616
NVNT	n40	5270	Ant12	36.155
NVNT	n40	5310	Ant12	36.165

Test Graphs

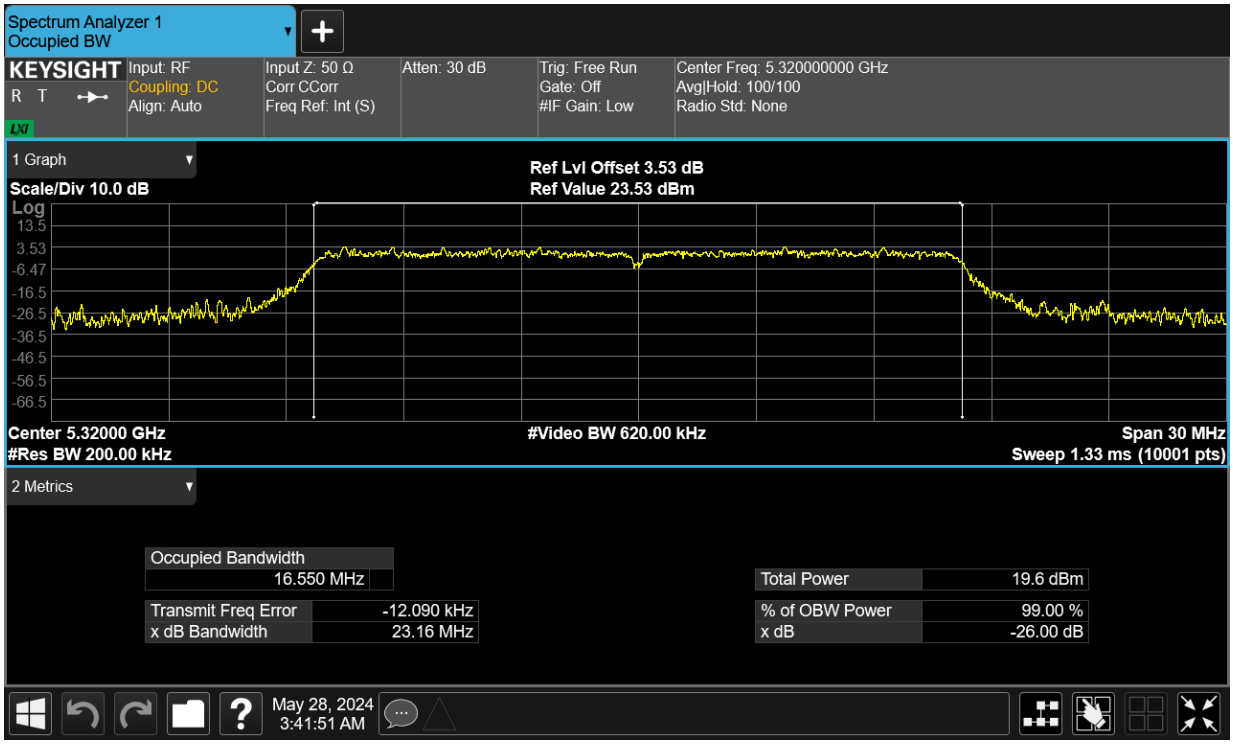
OBW NVNT a 5260MHz Ant12



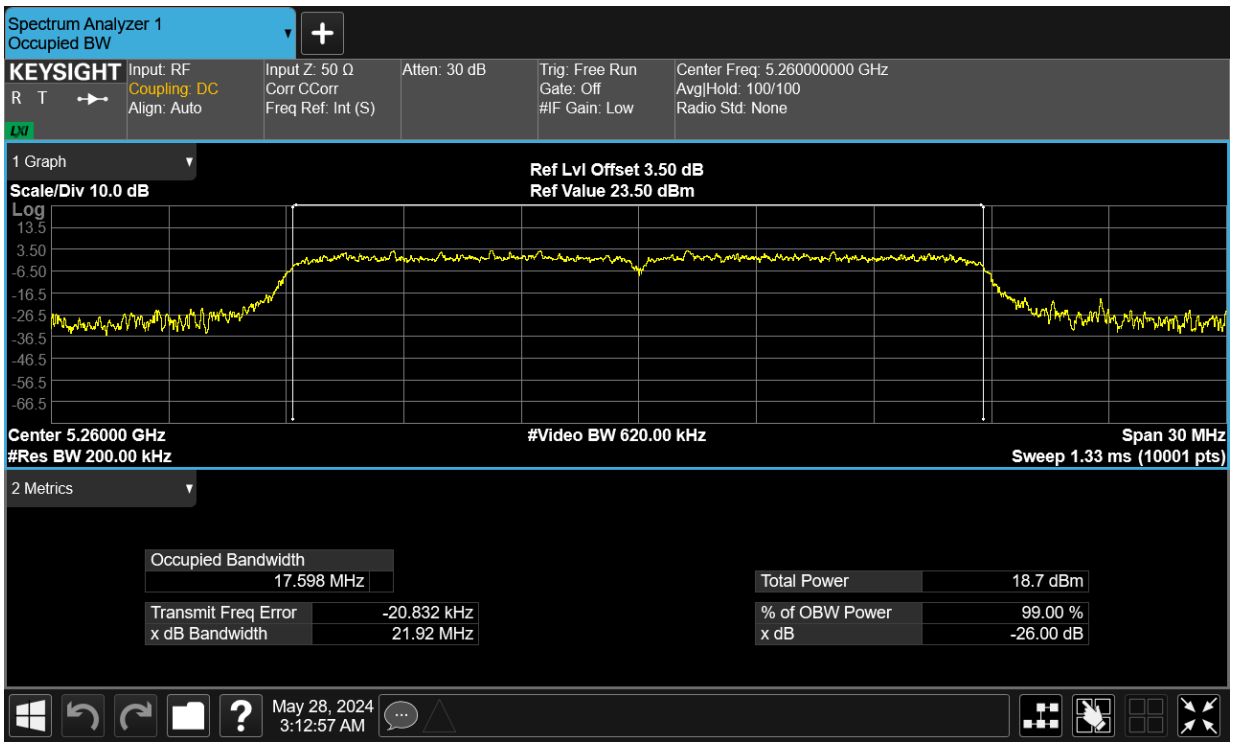
OBW NVNT a 5300MHz Ant12



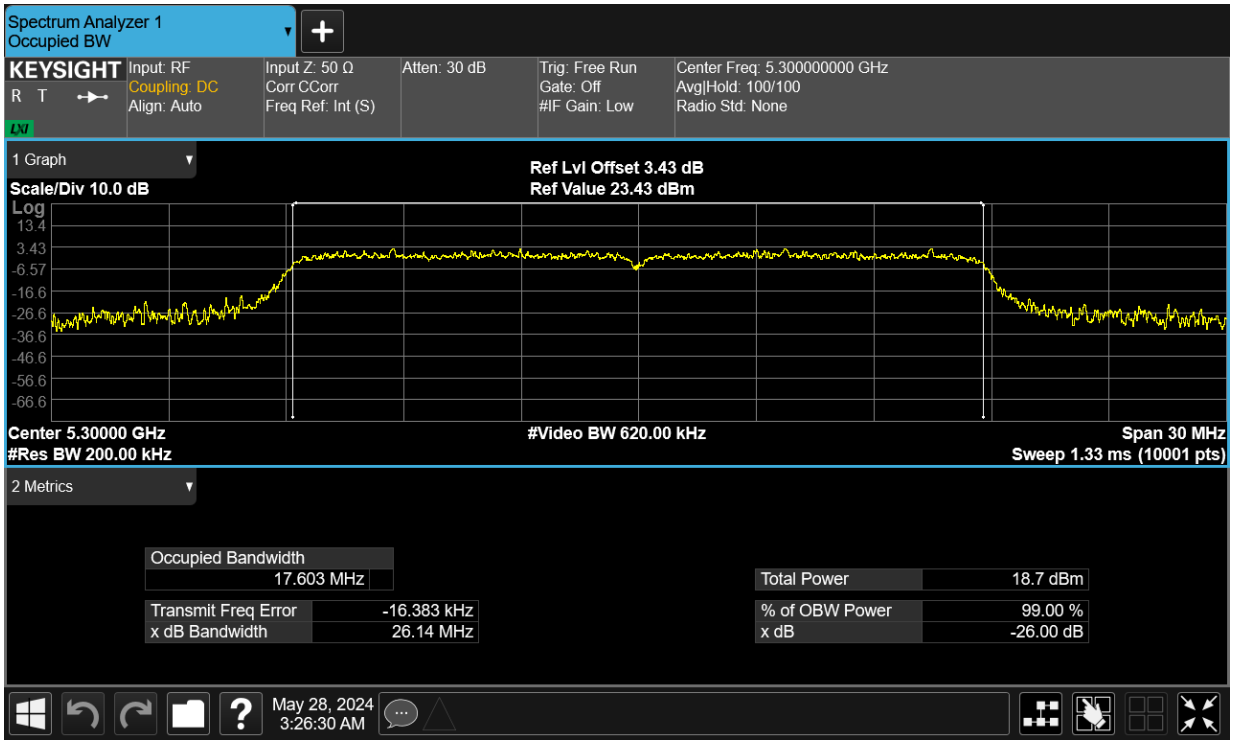
OBW NVNT a 5320MHz Ant12



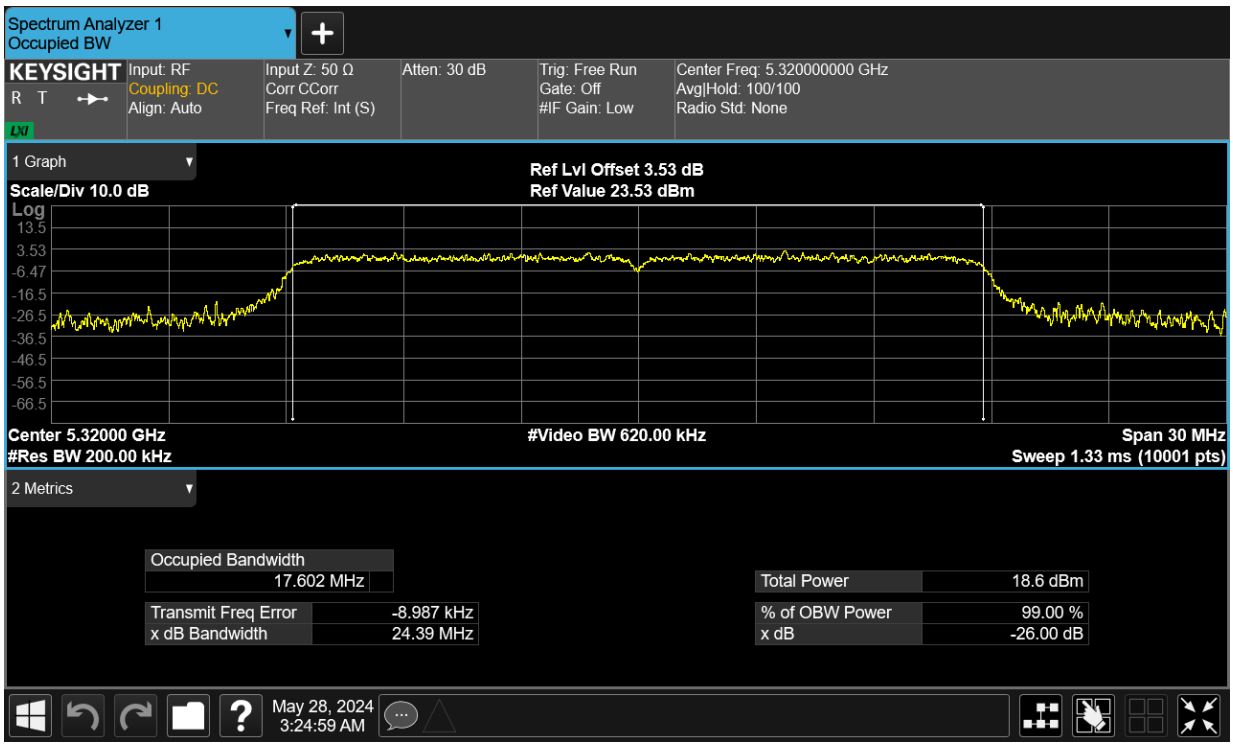
OBW NVNT ac20 5260MHz Ant12



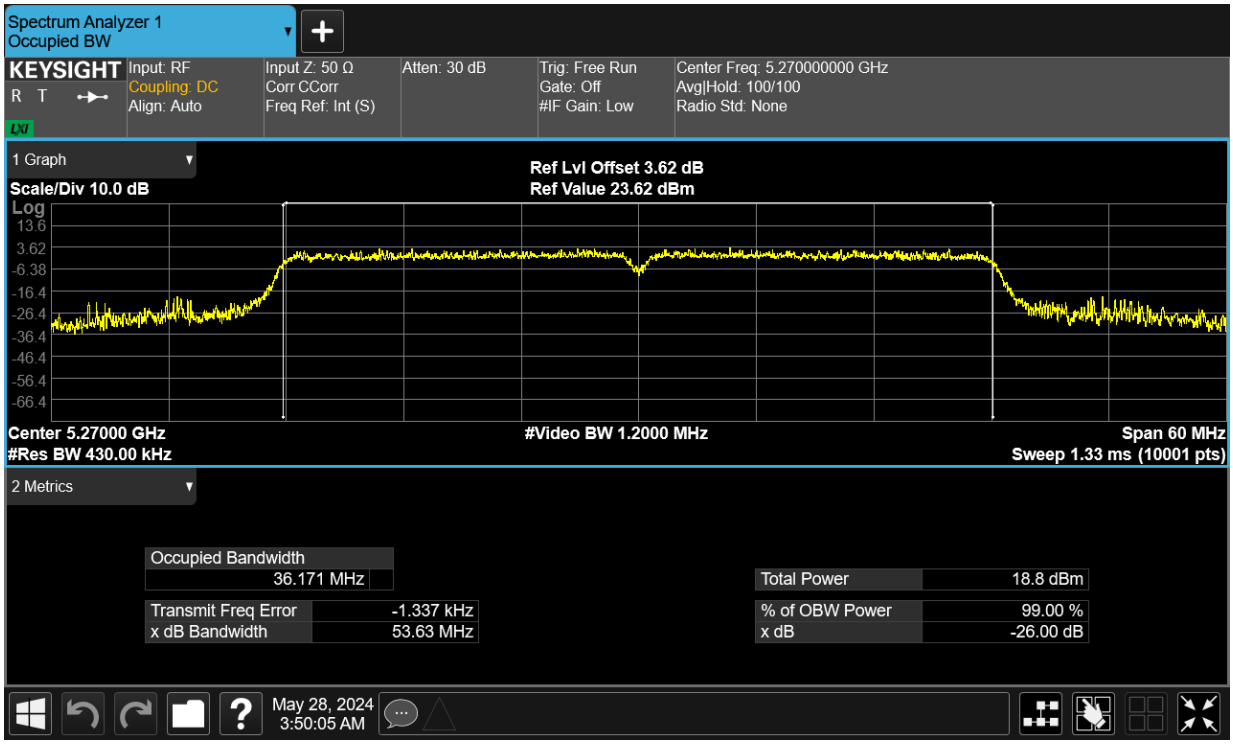
OBW NVNT ac20 5300MHz Ant12



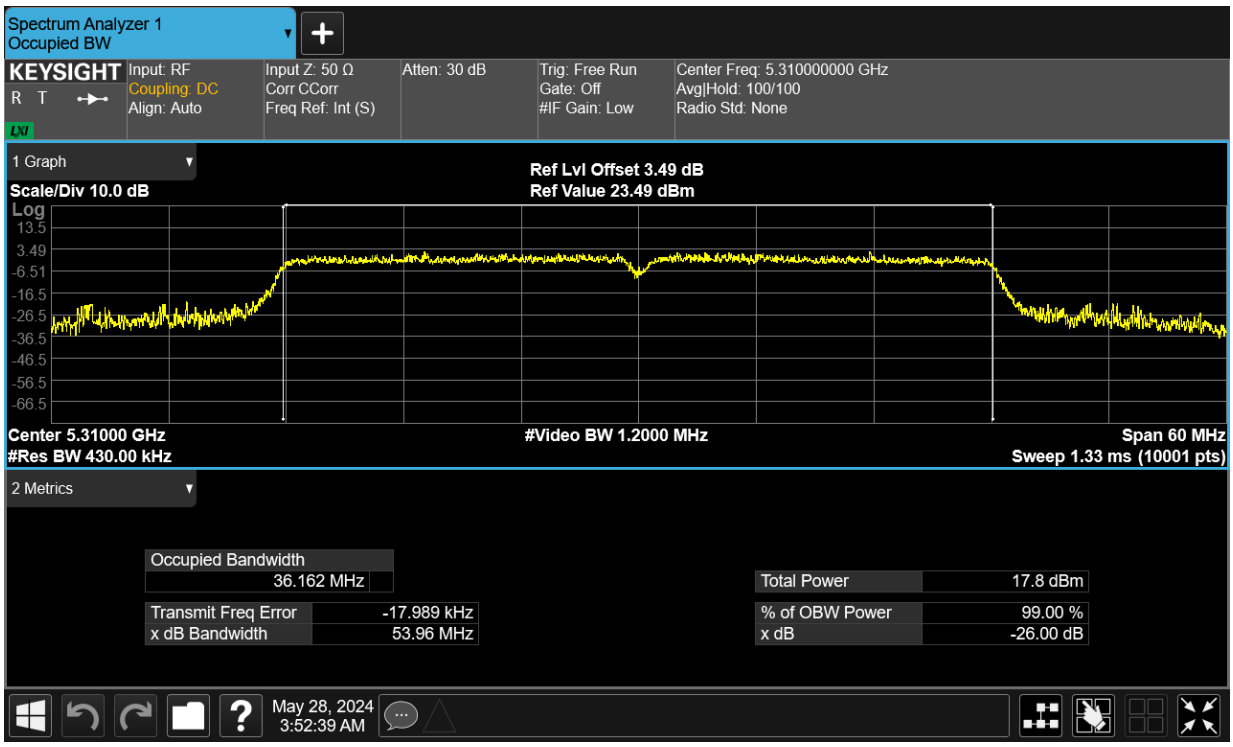
OBW NVNT ac20 5320MHz Ant12



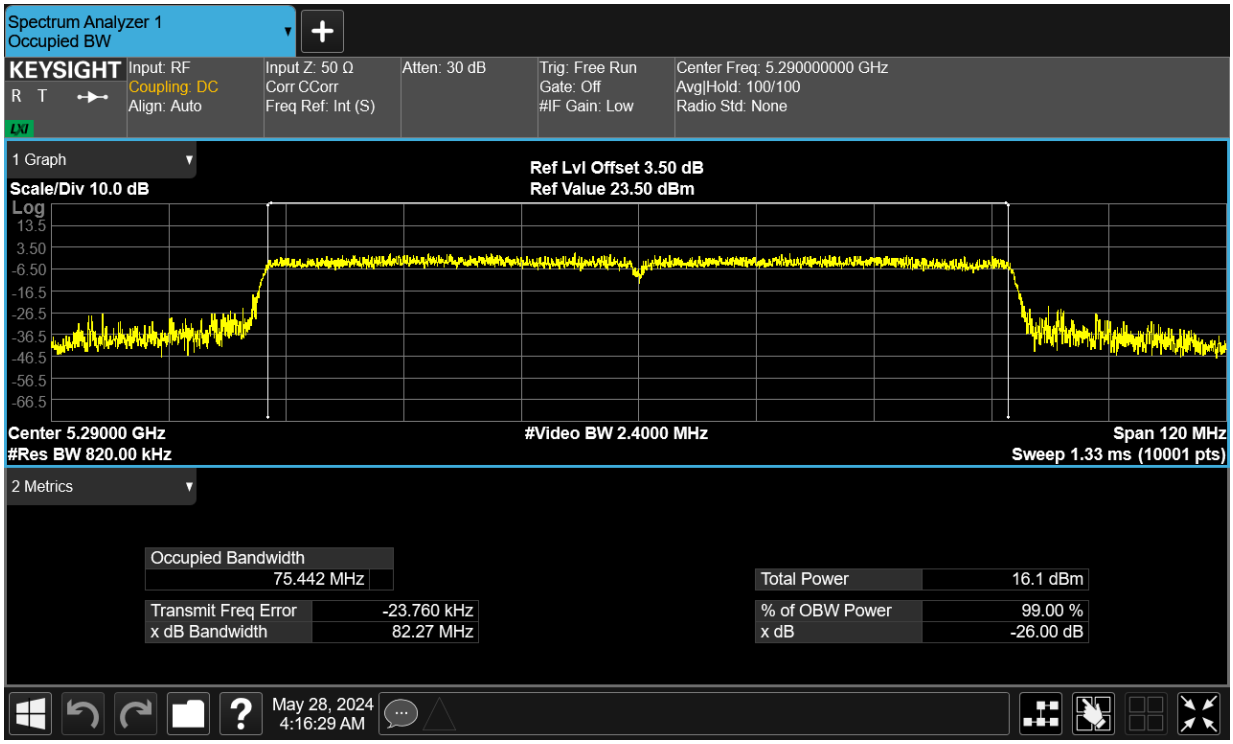
OBW NVNT ac40 5270MHz Ant12



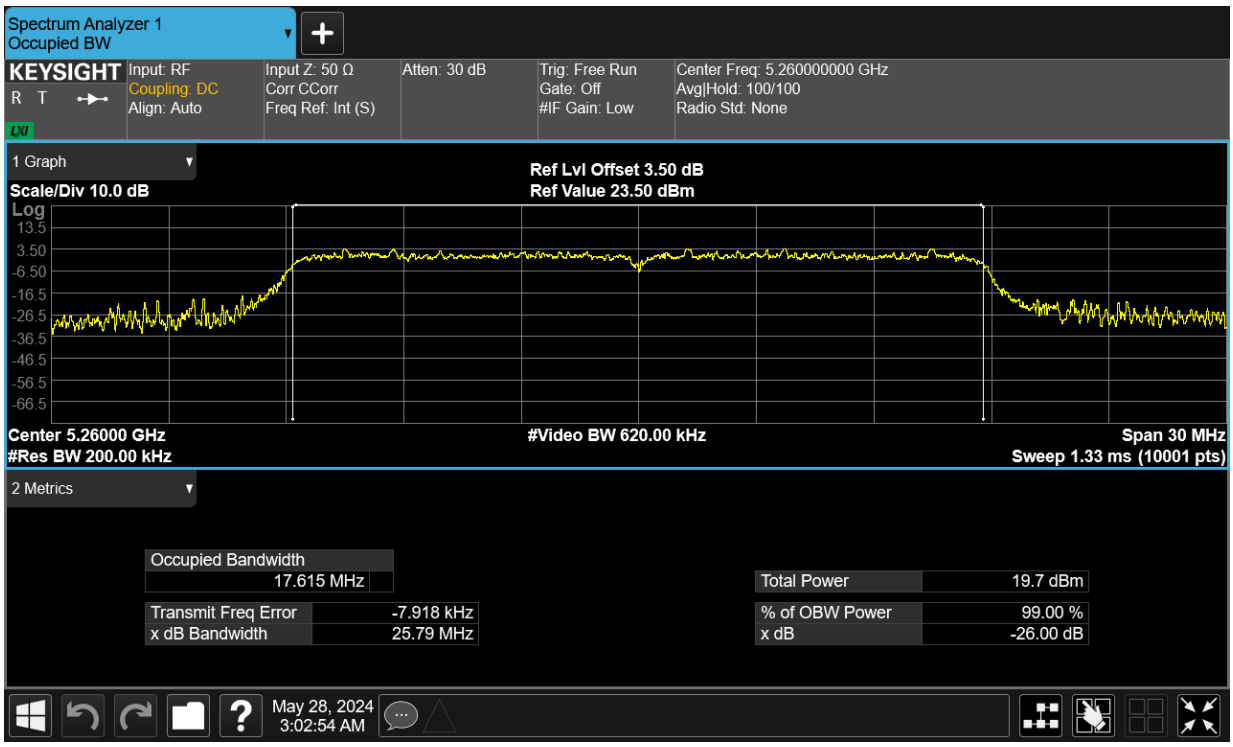
OBW NVNT ac40 5310MHz Ant12



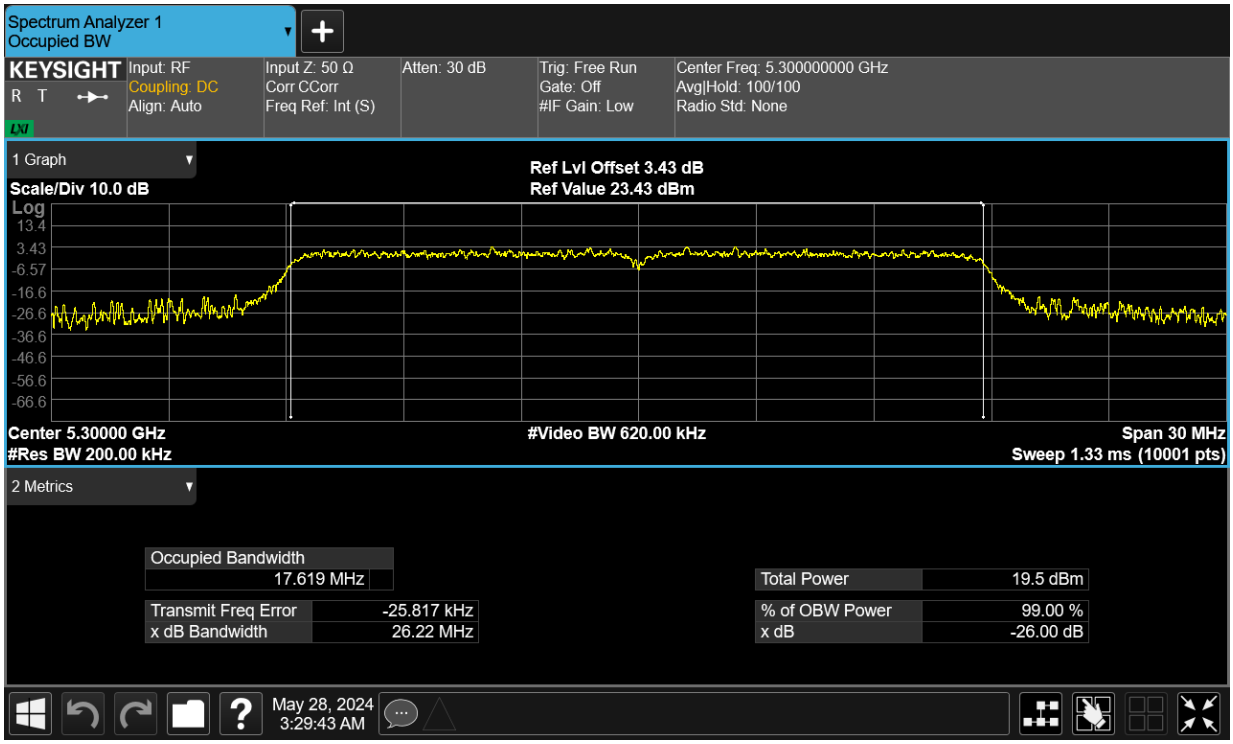
OBW NVNT ac80 5290MHz Ant12



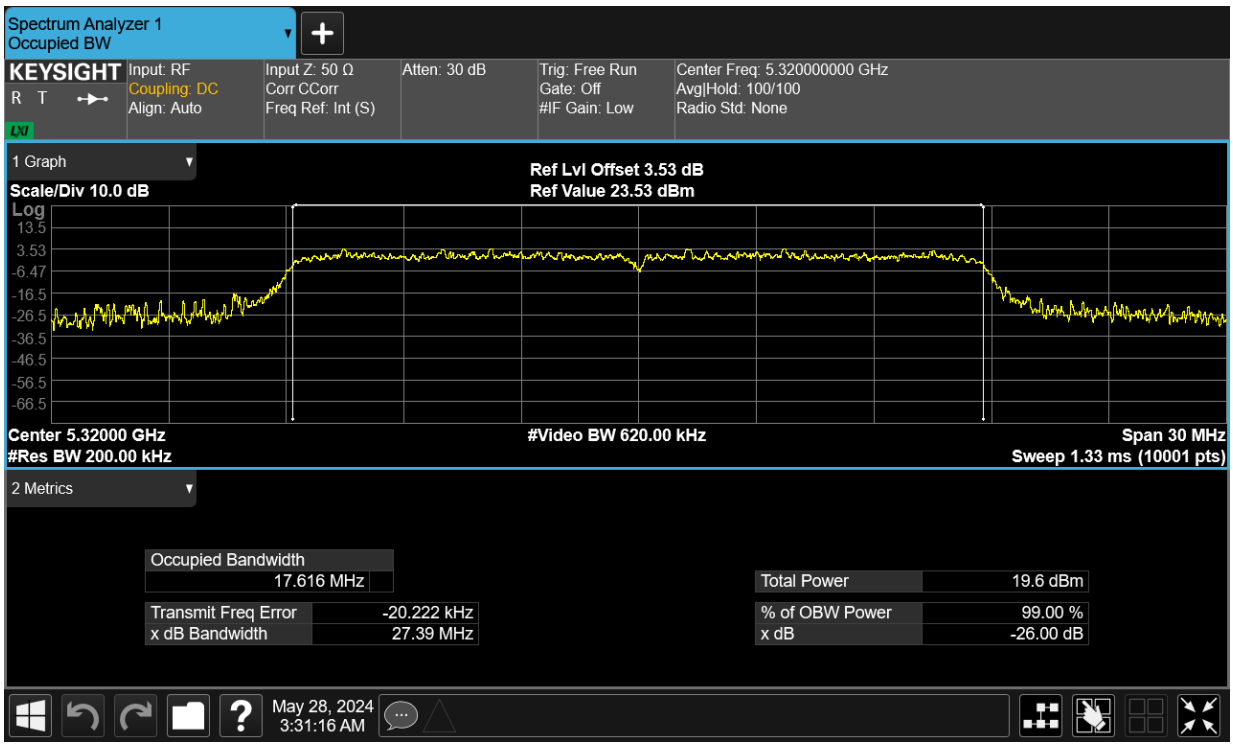
OBW NVNT n20 5260MHz Ant12



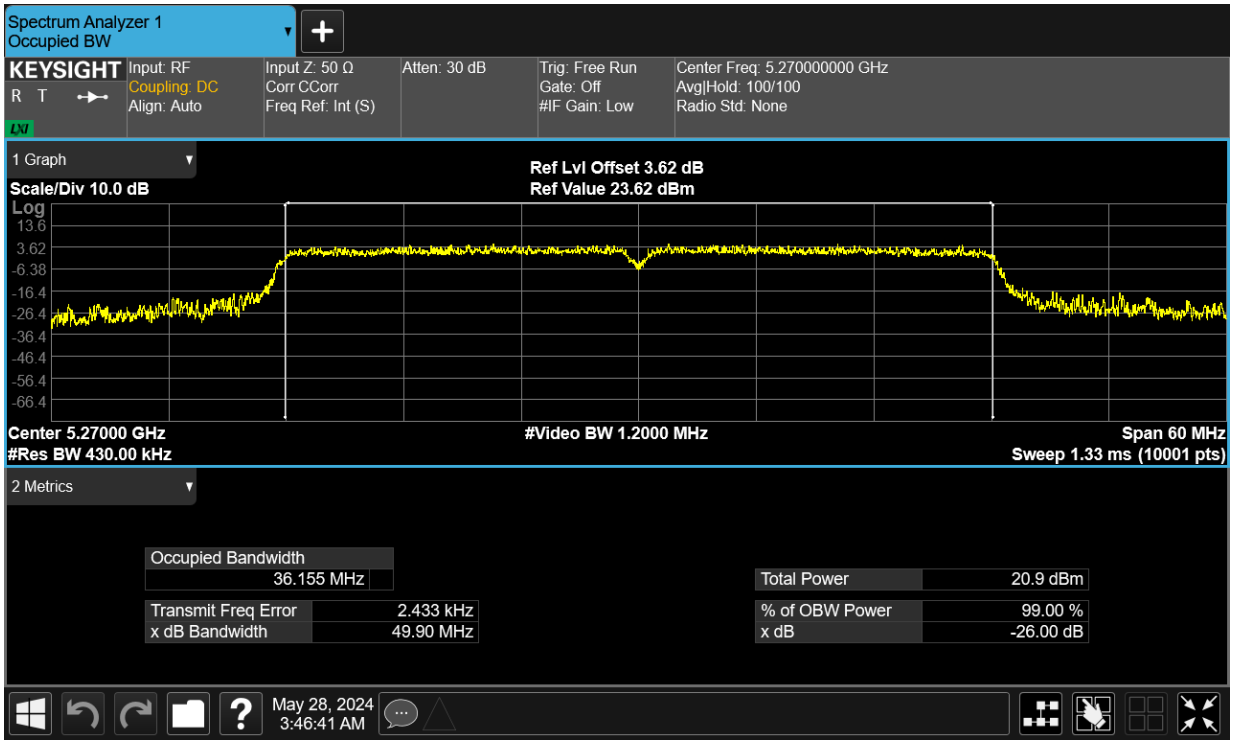
OBW NVNT n20 5300MHz Ant12



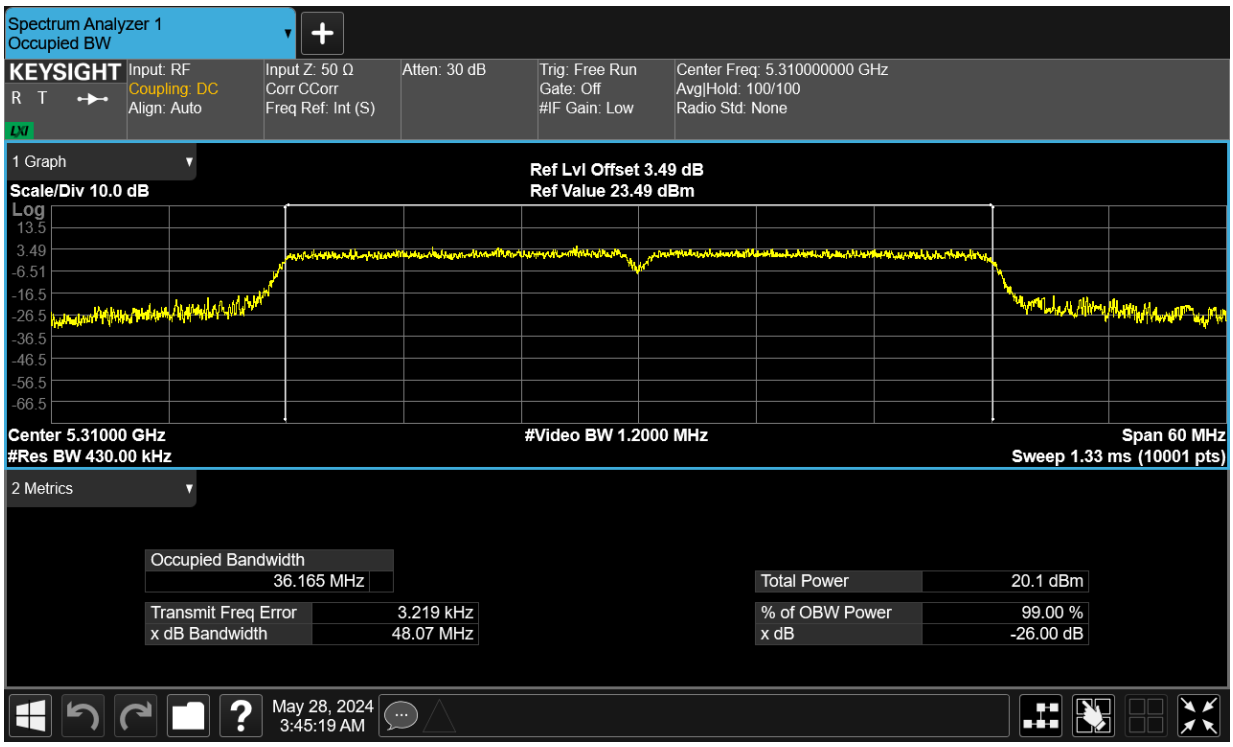
OBW NVNT n20 5320MHz Ant12



OBW NVNT n40 5270MHz Ant12



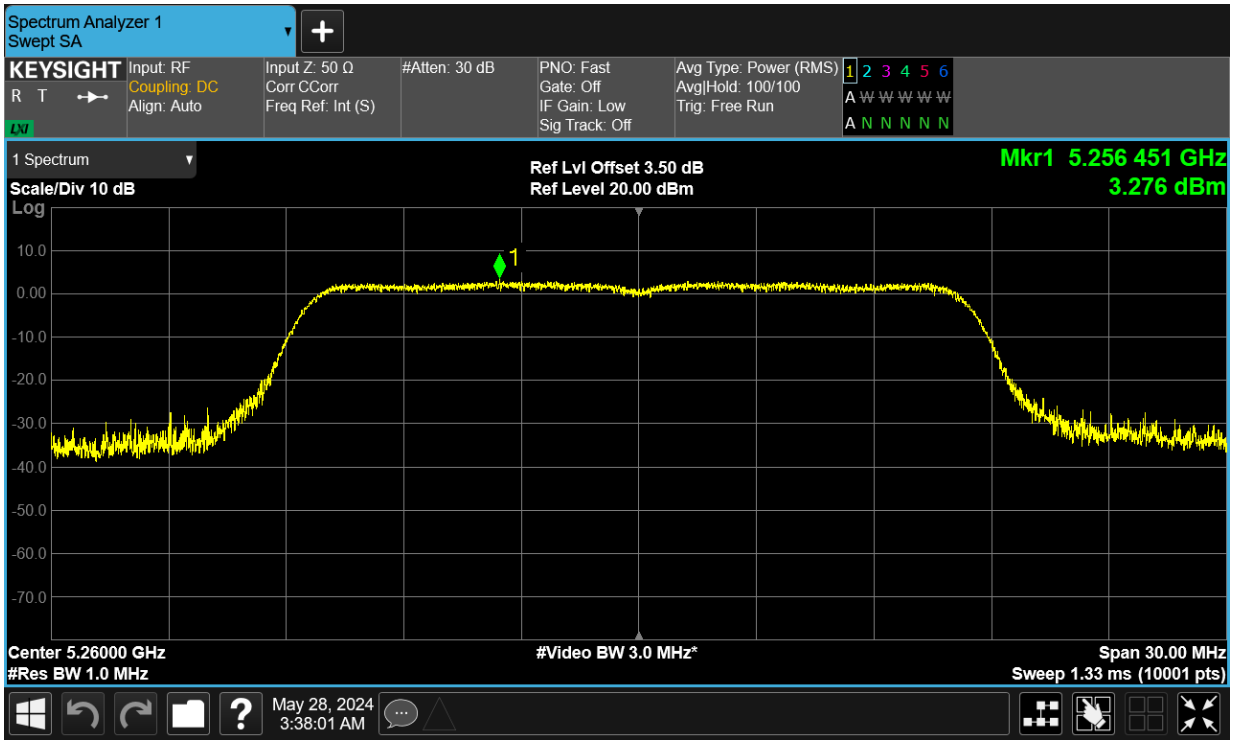
OBW NVNT n40 5310MHz Ant12



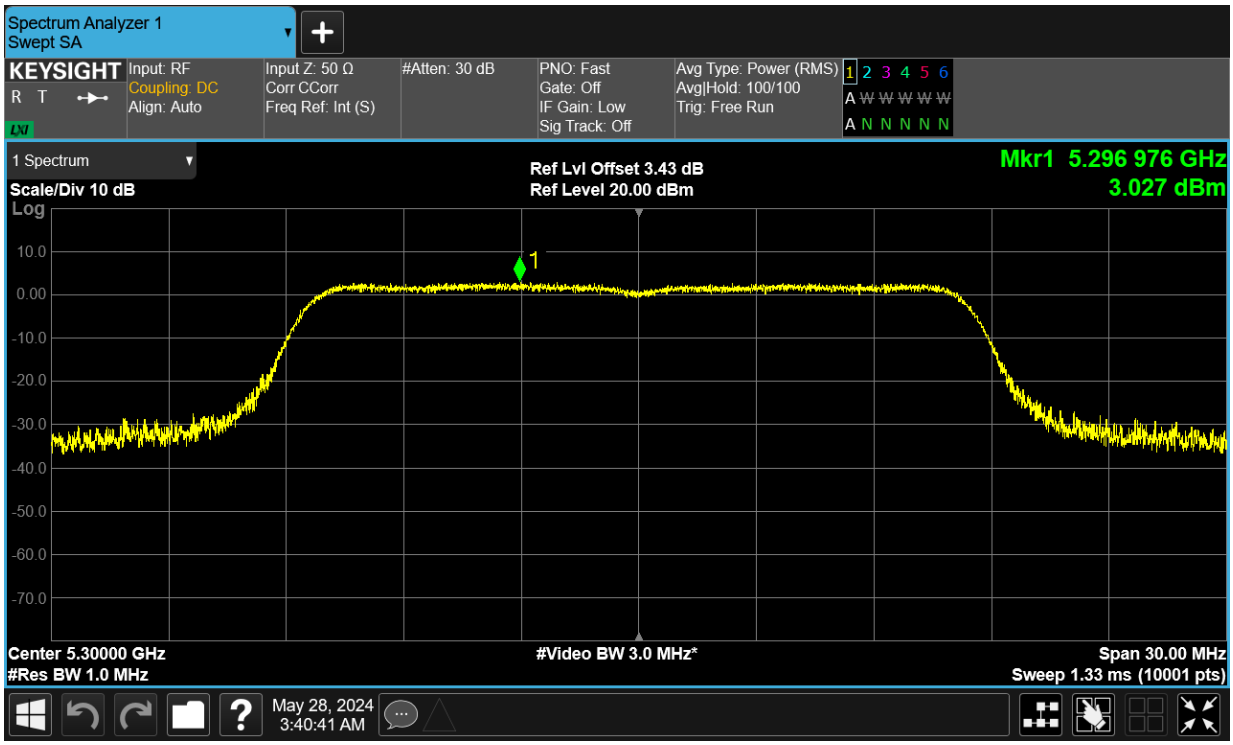
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant12	3.276	11	Pass
NVNT	a	5300	Ant12	3.027	11	Pass
NVNT	a	5320	Ant12	2.978	11	Pass
NVNT	ac20	5260	Ant12	1.867	11	Pass
NVNT	ac20	5300	Ant12	1.89	11	Pass
NVNT	ac20	5320	Ant12	1.994	11	Pass
NVNT	ac40	5270	Ant12	-1.238	11	Pass
NVNT	ac40	5310	Ant12	-2.354	11	Pass
NVNT	ac80	5290	Ant12	-7.339	11	Pass
NVNT	n20	5260	Ant12	2.868	11	Pass
NVNT	n20	5300	Ant12	2.899	11	Pass
NVNT	n20	5320	Ant12	2.765	11	Pass
NVNT	n40	5270	Ant12	1.031	11	Pass
NVNT	n40	5310	Ant12	0.228	11	Pass

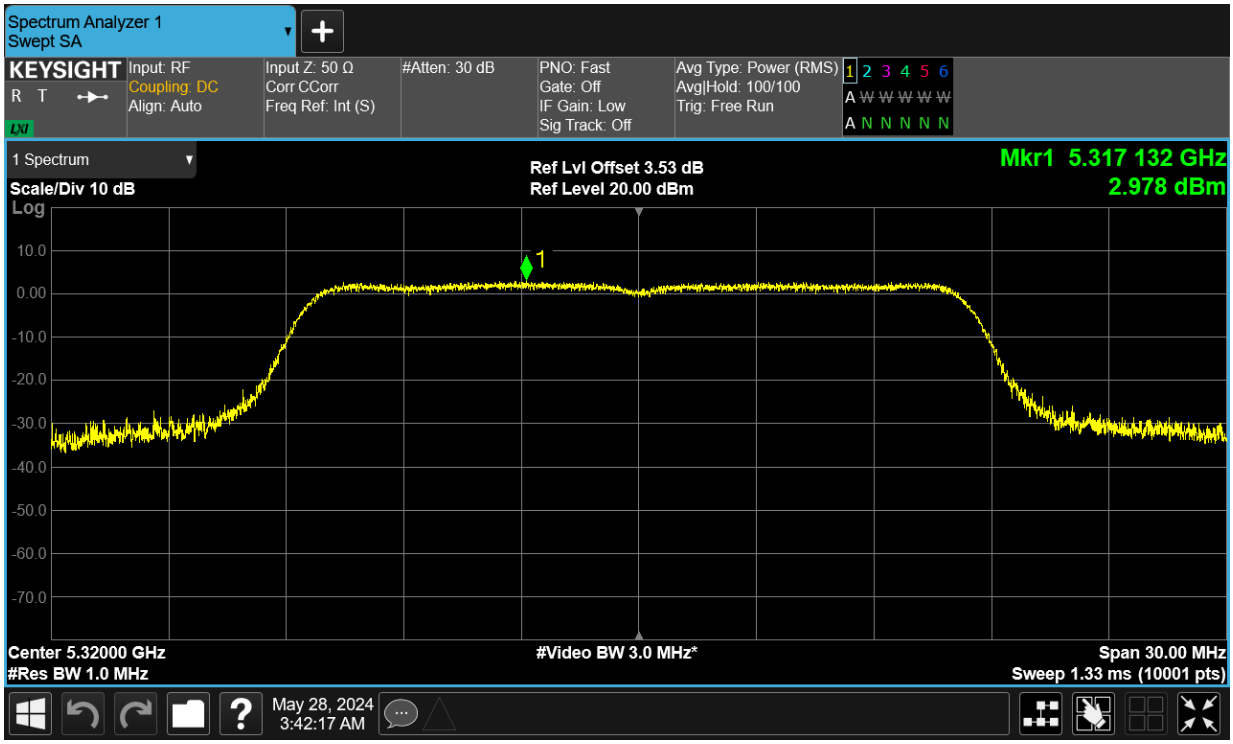
Test Graphs
PSD NVNT a 5260MHz Ant12



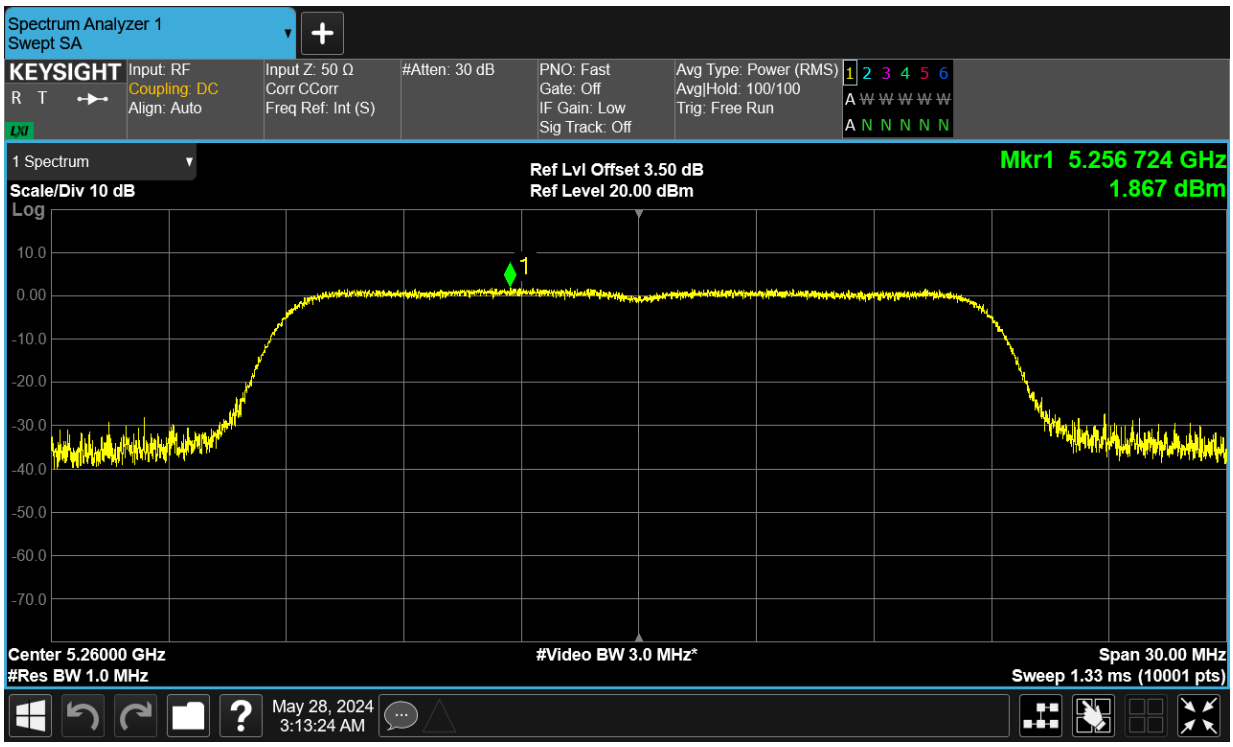
PSD NVNT a 5300MHz Ant12



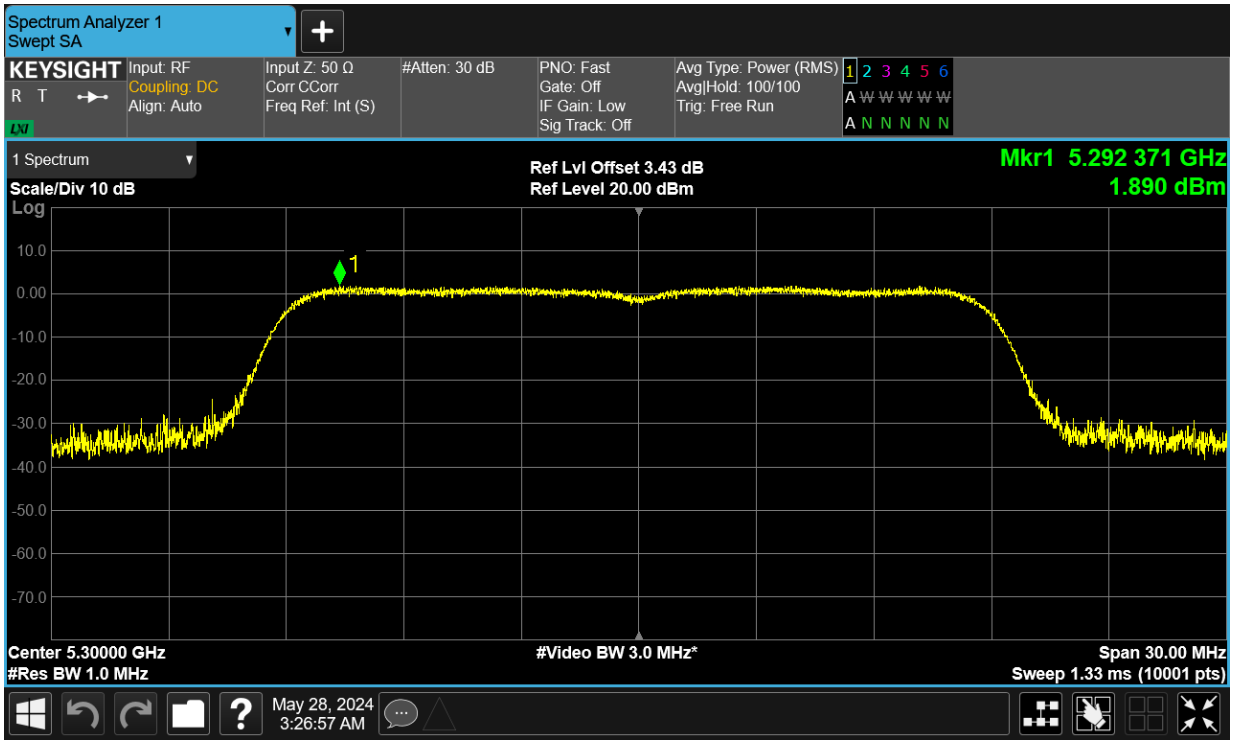
PSD NVNT a 5320MHz Ant12



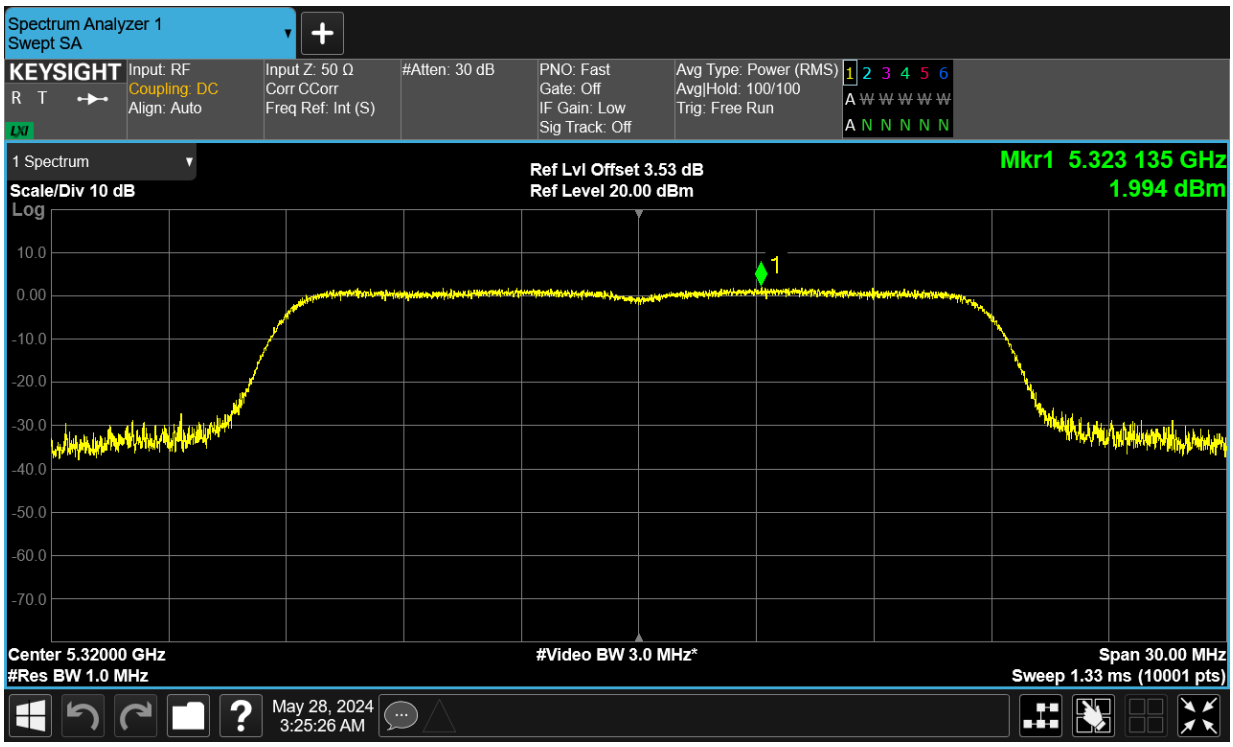
PSD NVNT ac20 5260MHz Ant12



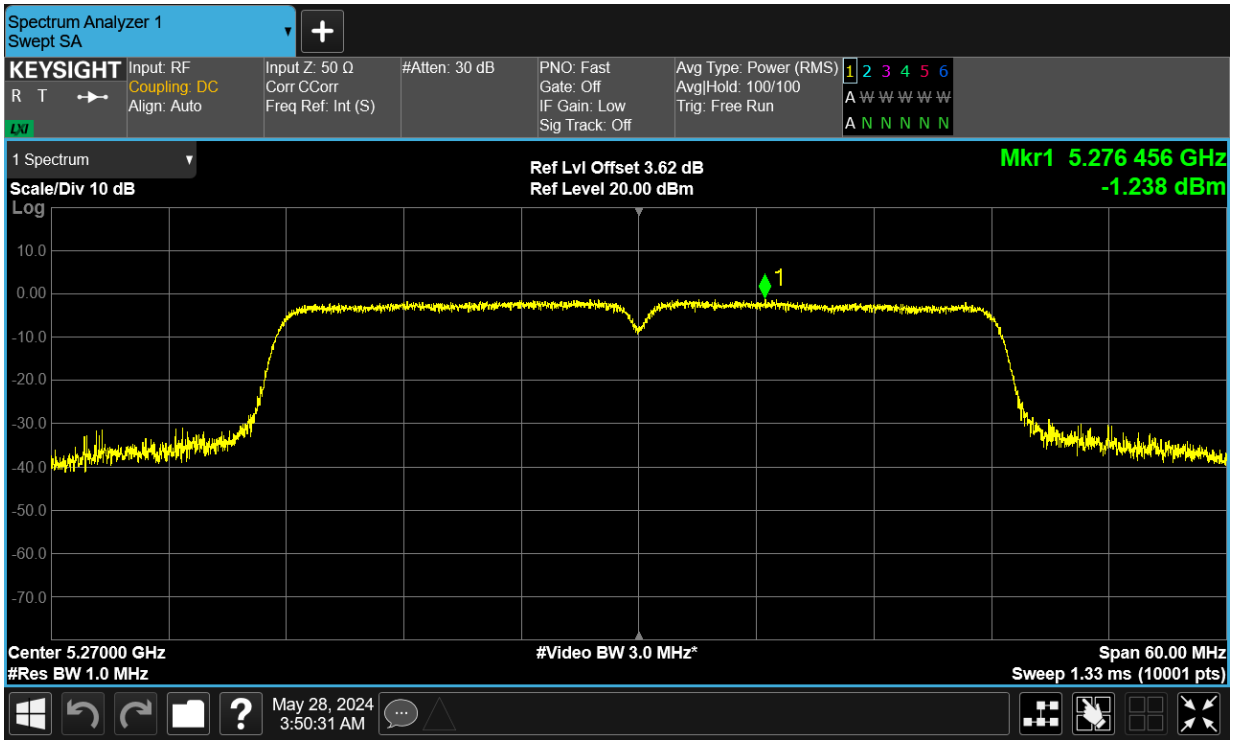
PSD NVNT ac20 5300MHz Ant12



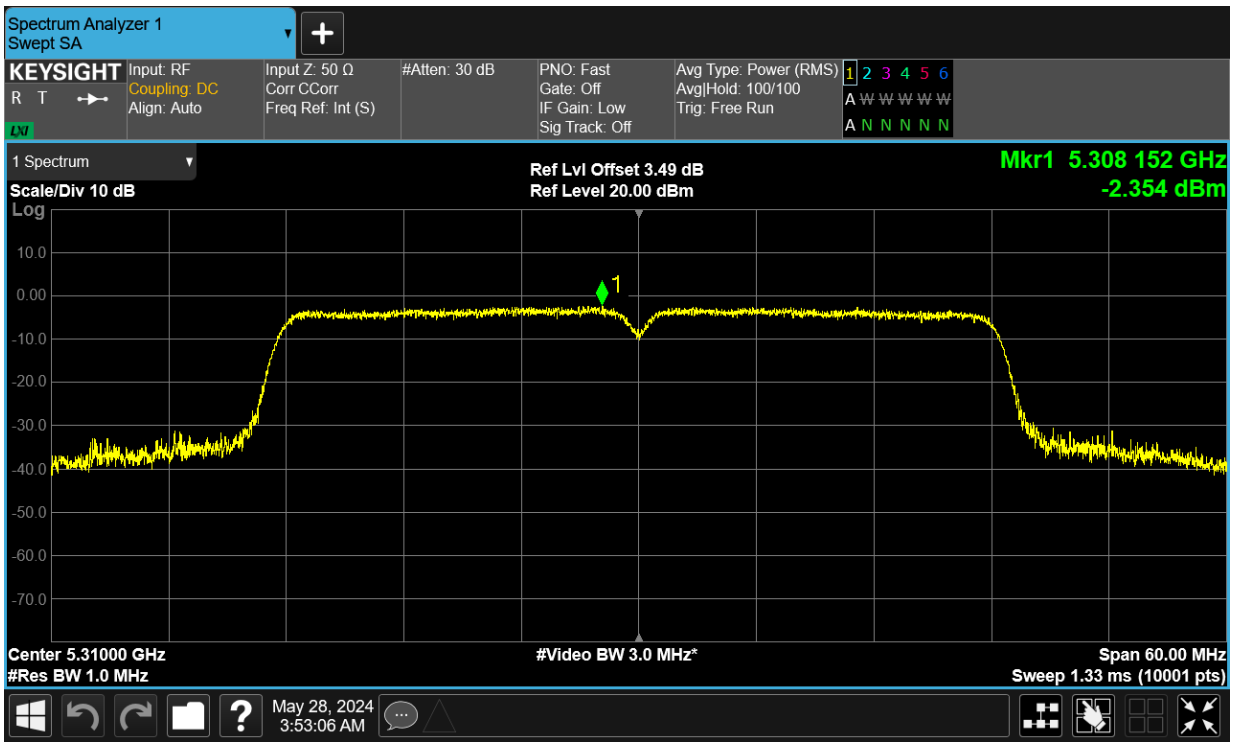
PSD NVNT ac20 5320MHz Ant12



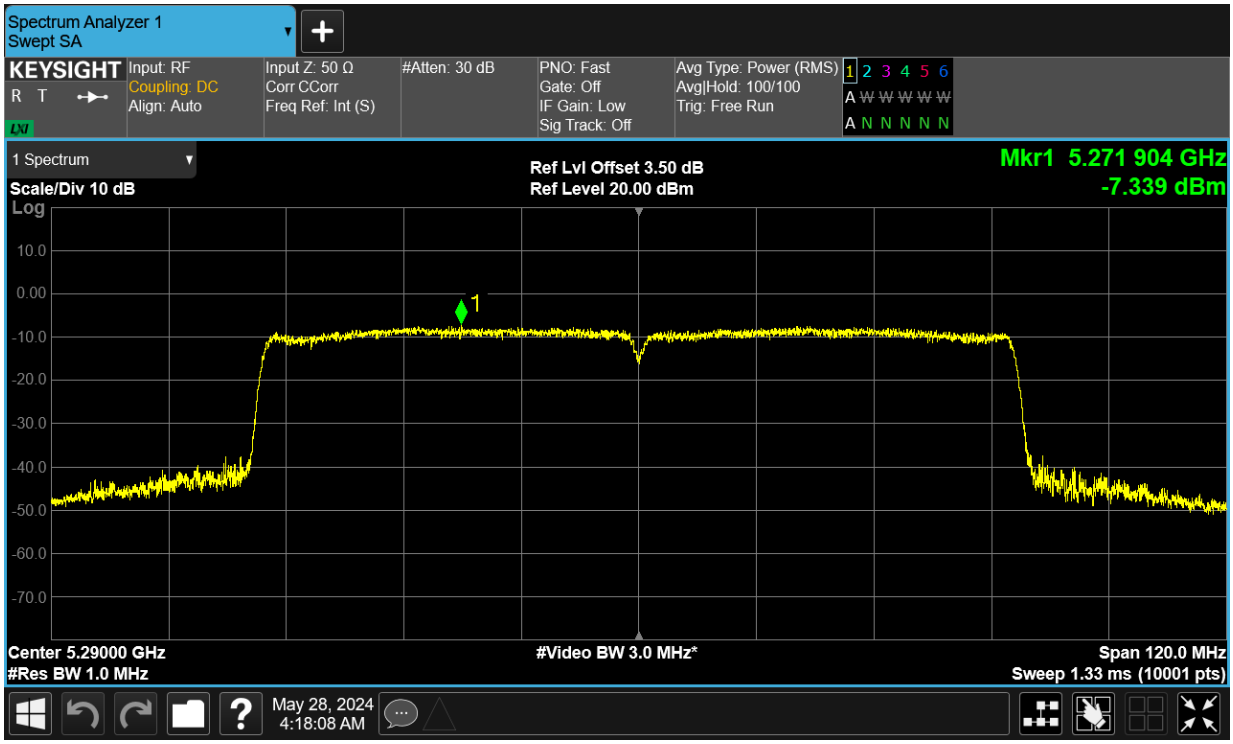
PSD NVNT ac40 5270MHz Ant12



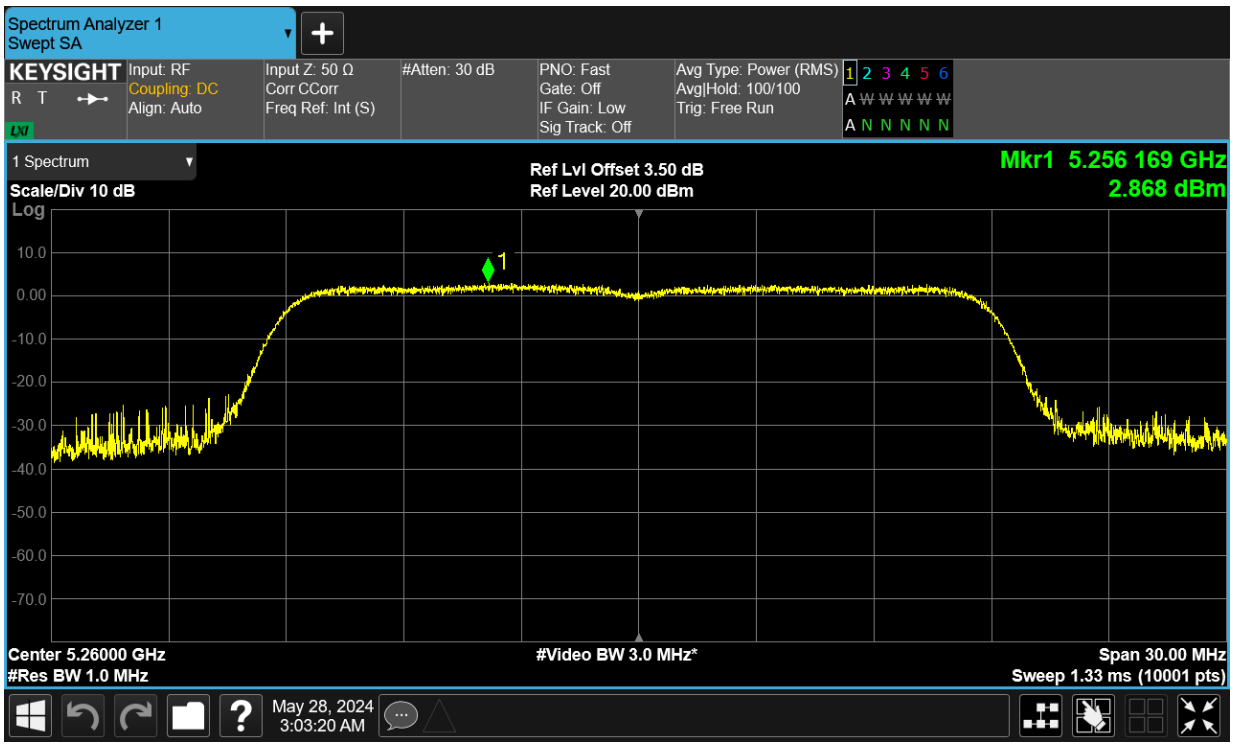
PSD NVNT ac40 5310MHz Ant12



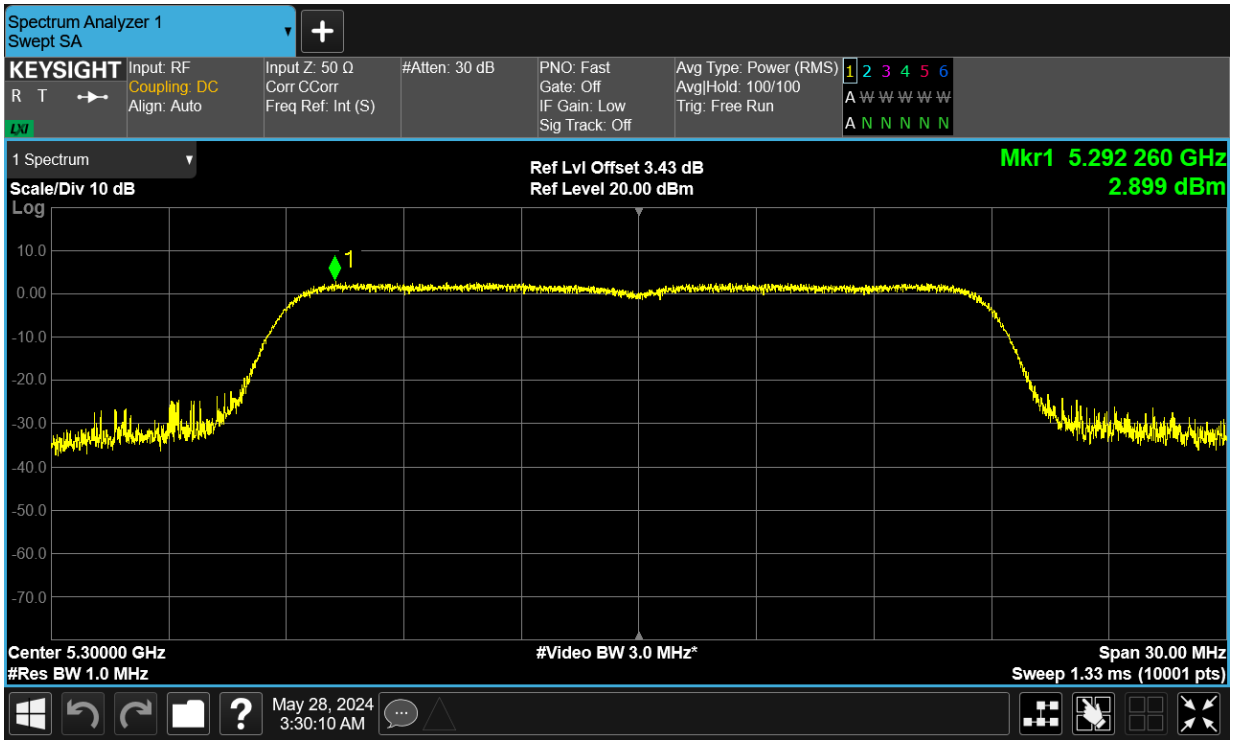
PSD NVNT ac80 5290MHz Ant12



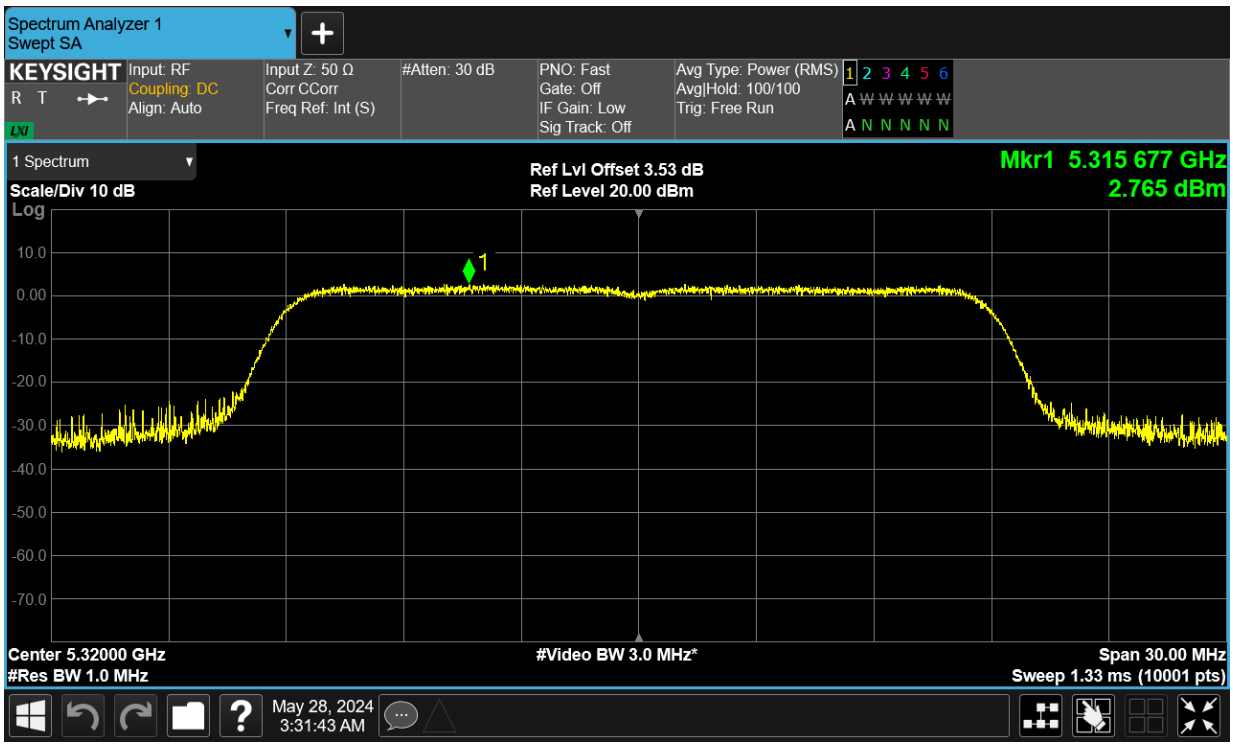
PSD NVNT n20 5260MHz Ant12



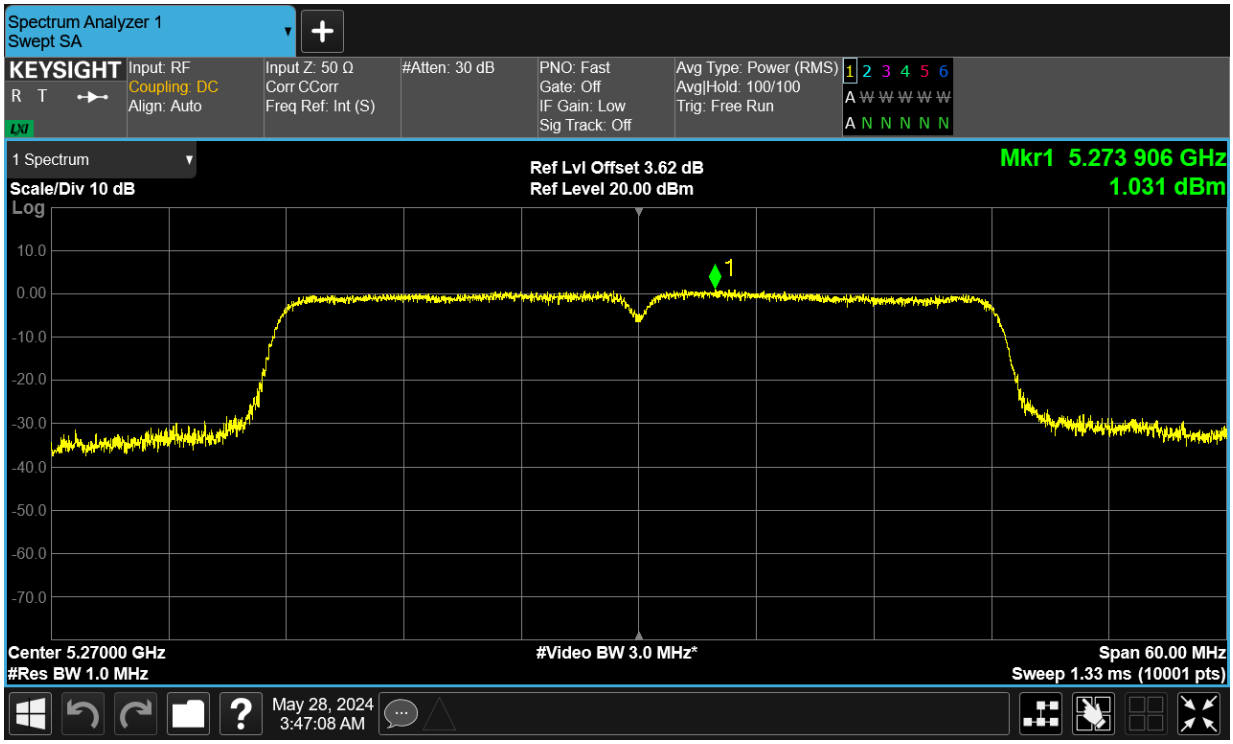
PSD NVNT n20 5300MHz Ant12



PSD NVNT n20 5320MHz Ant12



PSD NVNT n40 5270MHz Ant12



PSD NVNT n40 5310MHz Ant12