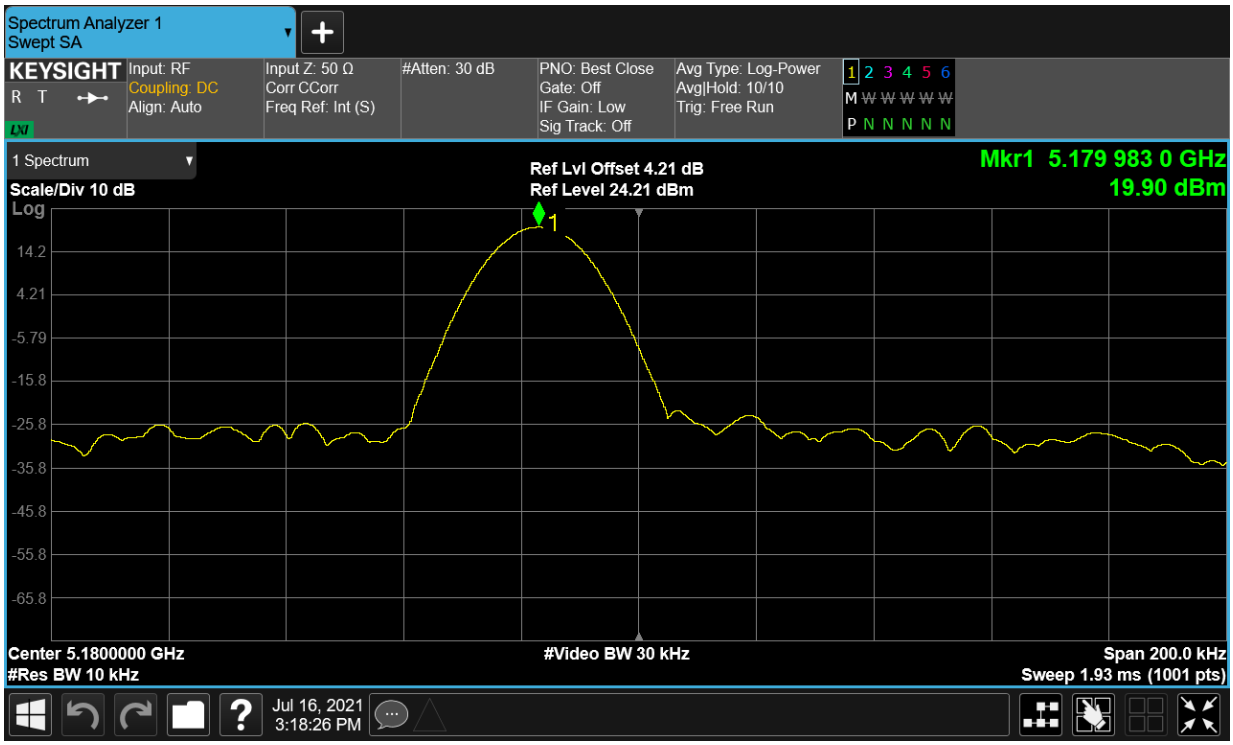
Test Data

Frequency Stability (wosrt case mode)

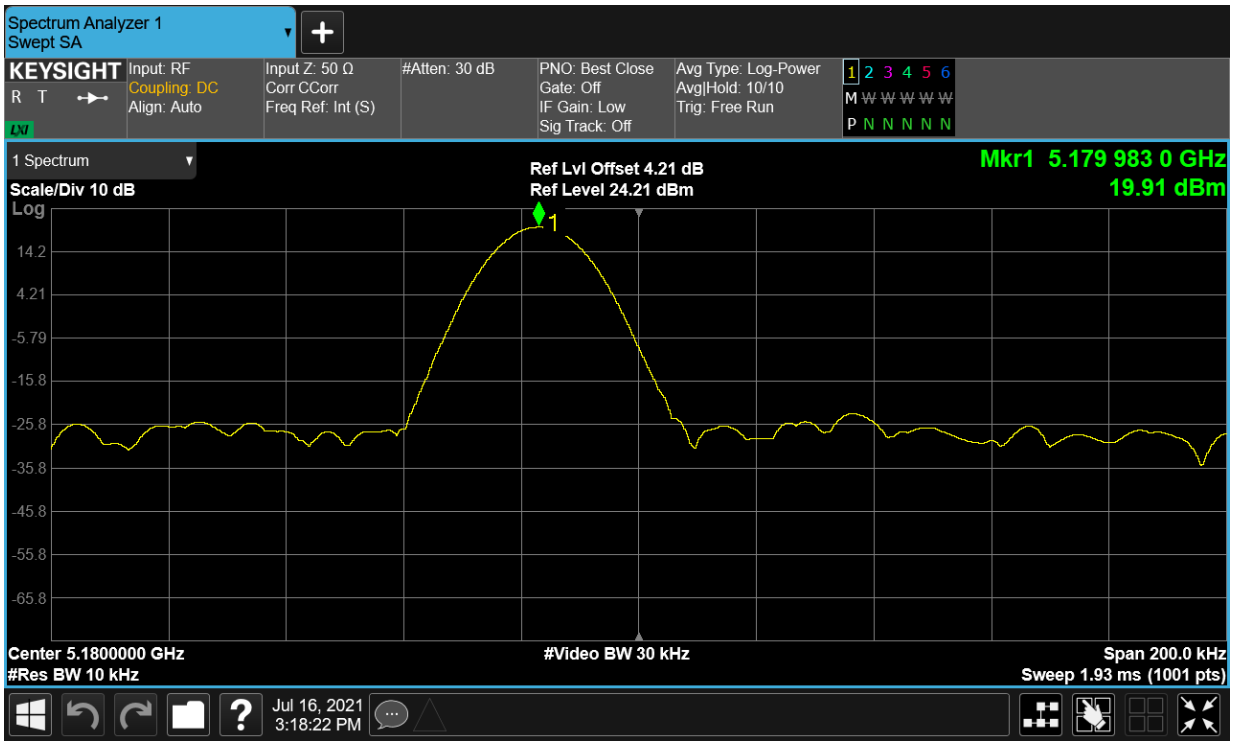
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5180	Ant1	5179.983	-3.28	25	Pass
HVLT	a	5180	Ant1	5179.983	-3.28	25	Pass
LVHT	a	5180	Ant1	5179.983	-3.28	25	Pass
LVLT	a	5180	Ant1	5179.983	-3.28	25	Pass
NVNT	a	5180	Ant1	5179.983	-3.28	25	Pass
HVHT	ac80	5210	Ant1	5209.9828	-3.3	25	Pass
HVLT	ac80	5210	Ant1	5209.9828	-3.3	25	Pass
LVHT	ac80	5210	Ant1	5209.9828	-3.3	25	Pass
LVLT	ac80	5210	Ant1	5209.9828	-3.3	25	Pass
NVNT	ac80	5210	Ant1	5209.9828	-3.3	25	Pass
HVHT	n40	5190	Ant1	5189.983	-3.28	25	Pass
HVLT	n40	5190	Ant1	5189.983	-3.28	25	Pass
LVHT	n40	5190	Ant1	5189.983	-3.28	25	Pass
LVLT	n40	5190	Ant1	5189.983	-3.28	25	Pass
NVNT	n40	5190	Ant1	5189.983	-3.28	25	Pass

Remark: "NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage.

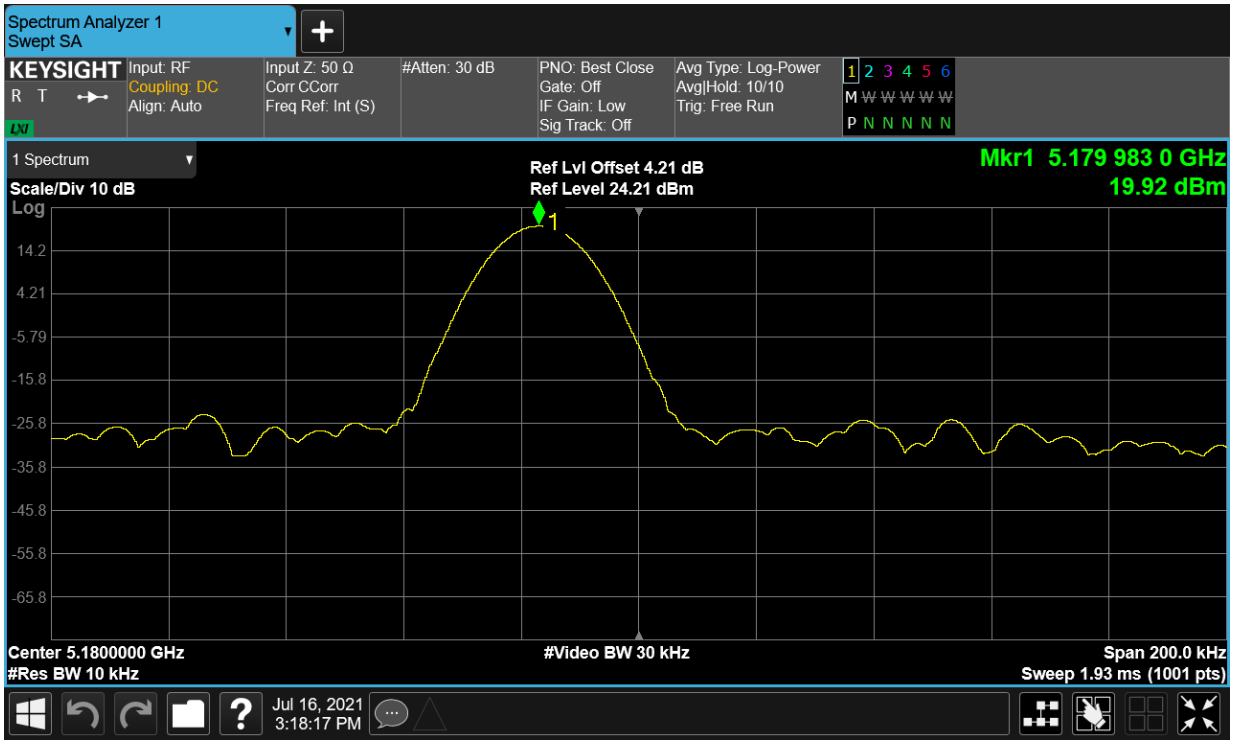
Freq. Stability HVHT a 5180MHz Ant1



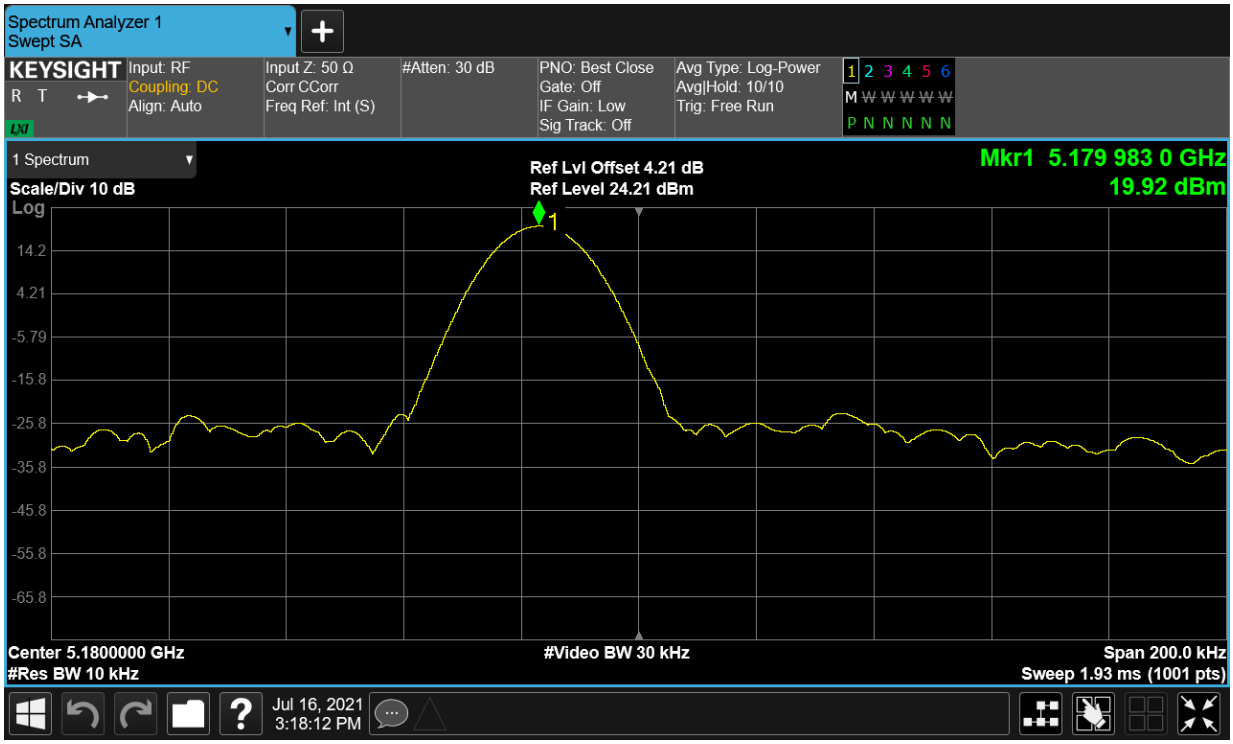
Freq. Stability HVLT a 5180MHz Ant1



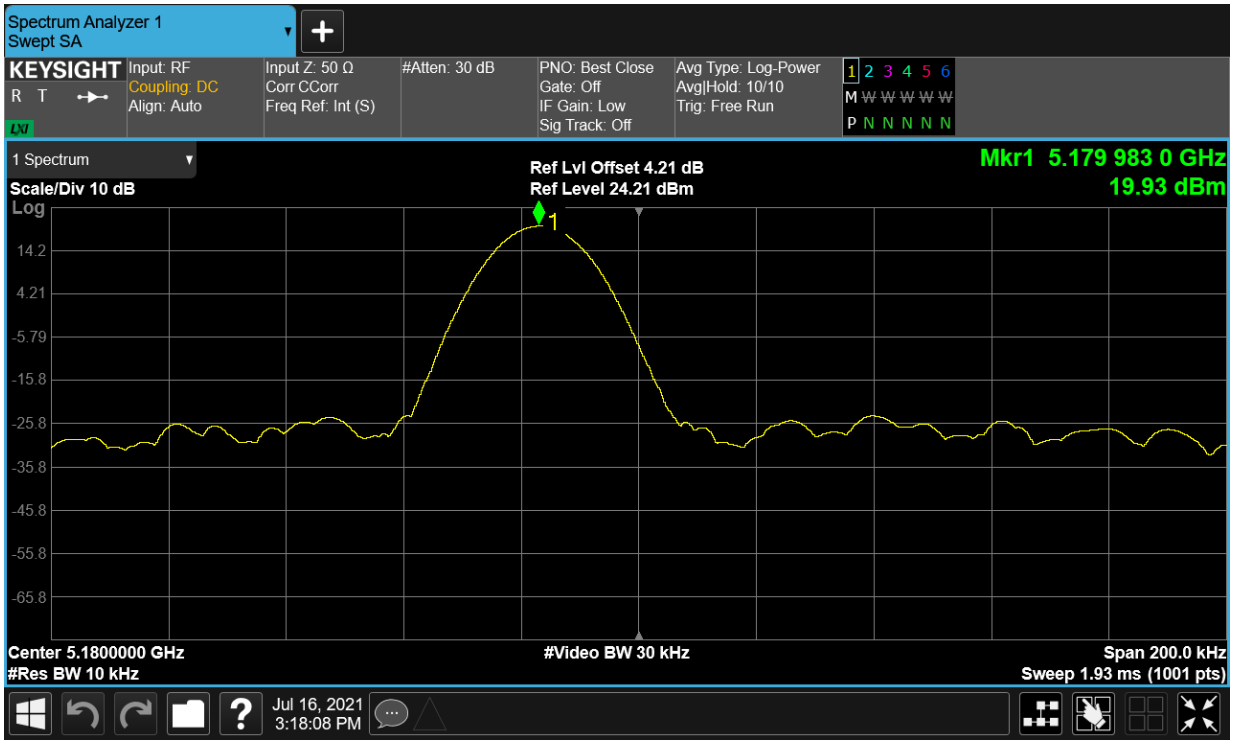
Freq. Stability LVHT a 5180MHz Ant1



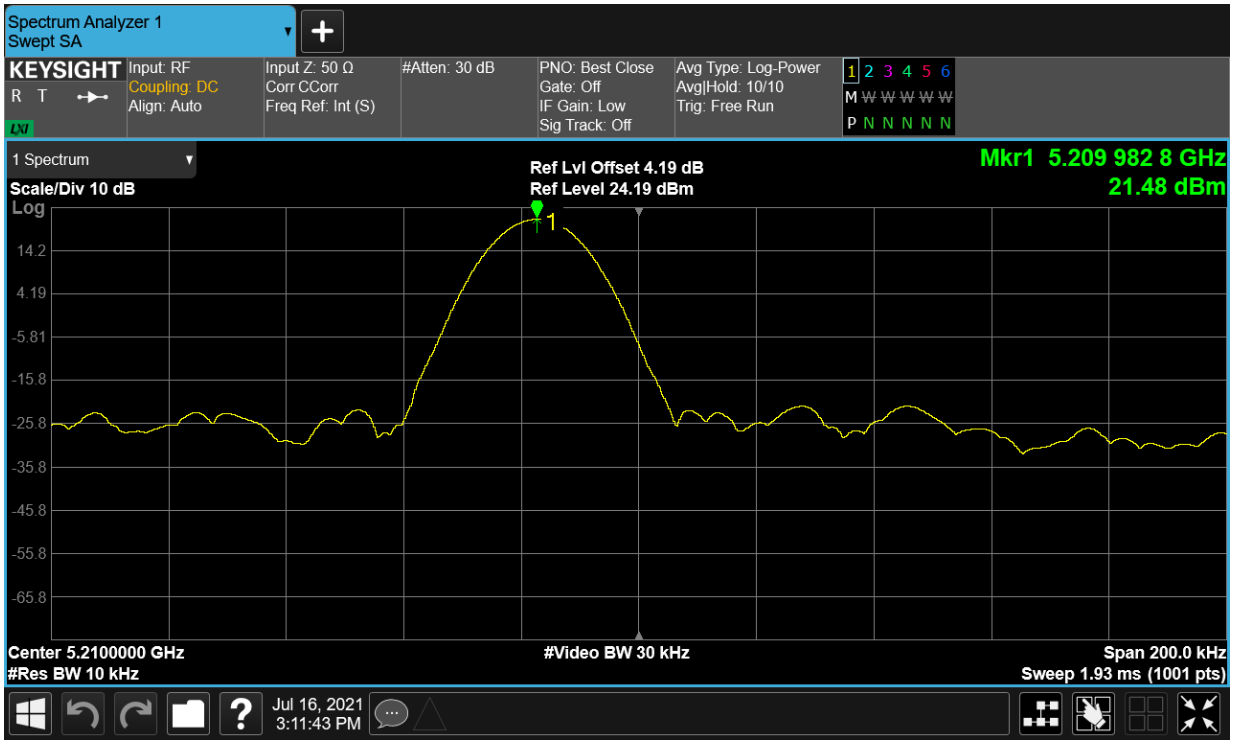
Freq. Stability LVLT a 5180MHz Ant1



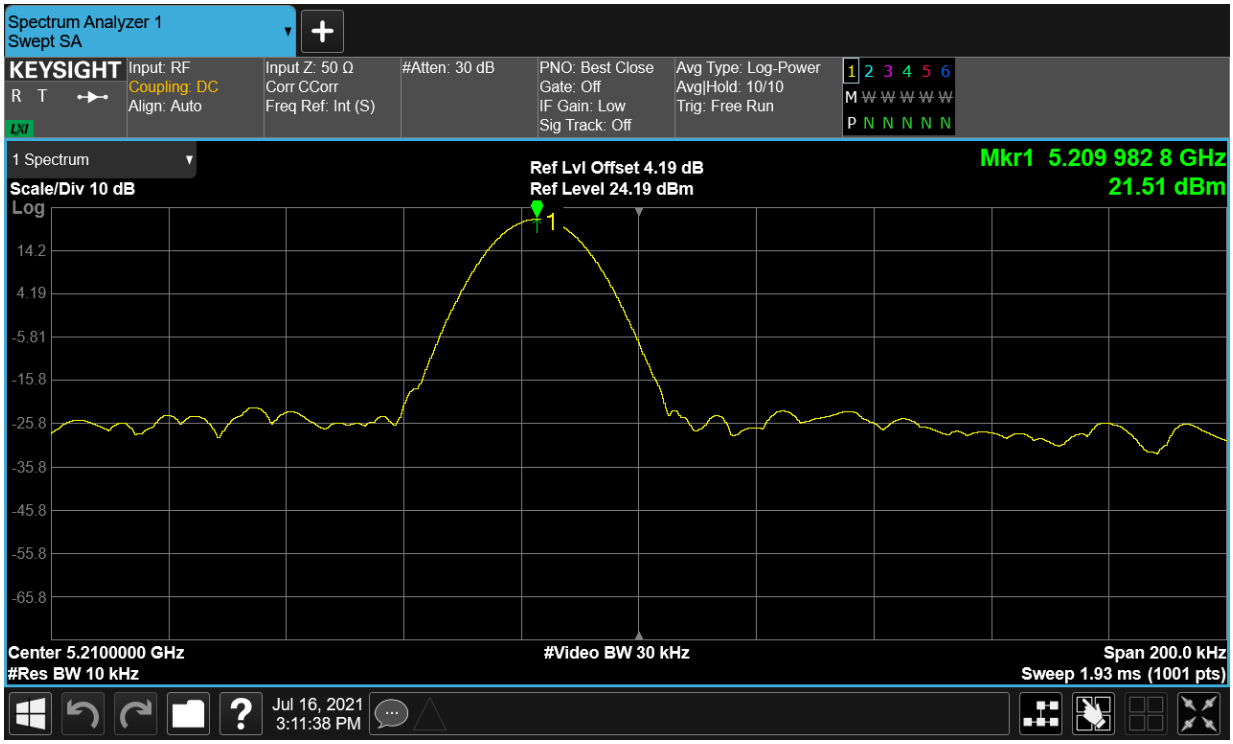
Freq. Stability NVNT a 5180MHz Ant1



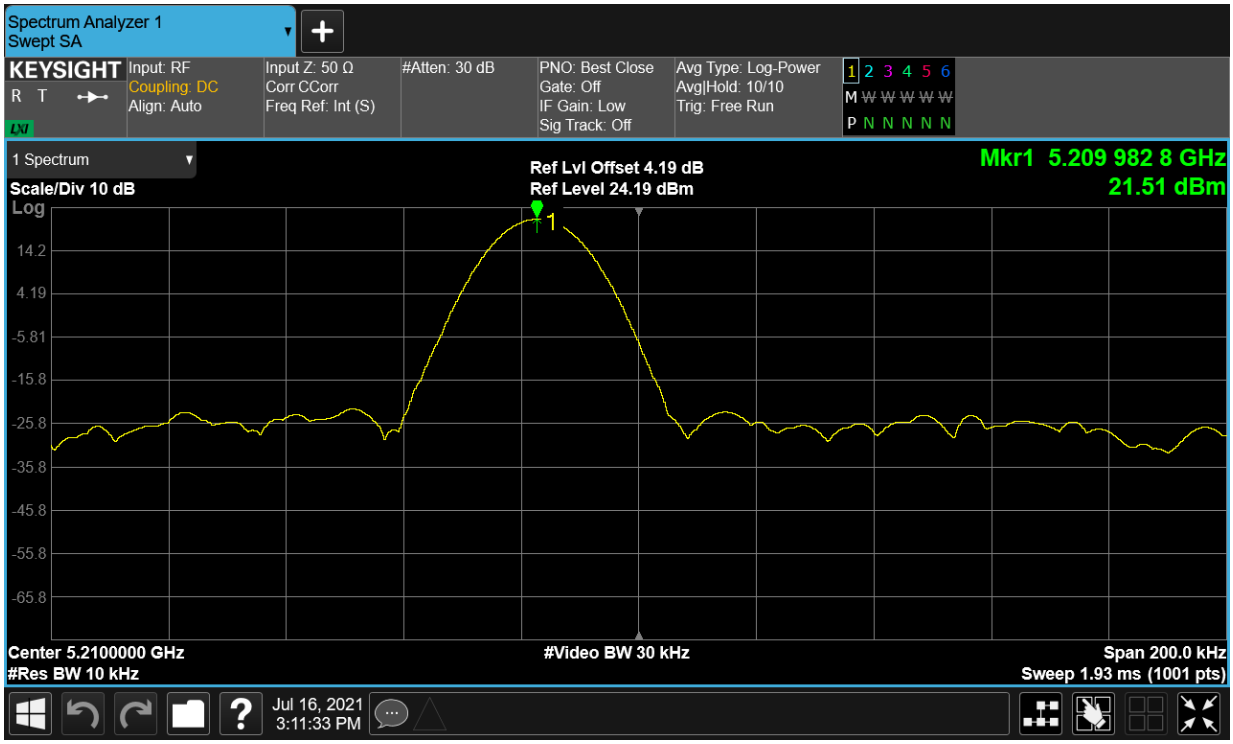
Freq. Stability HVHT ac80 5210MHz Ant1



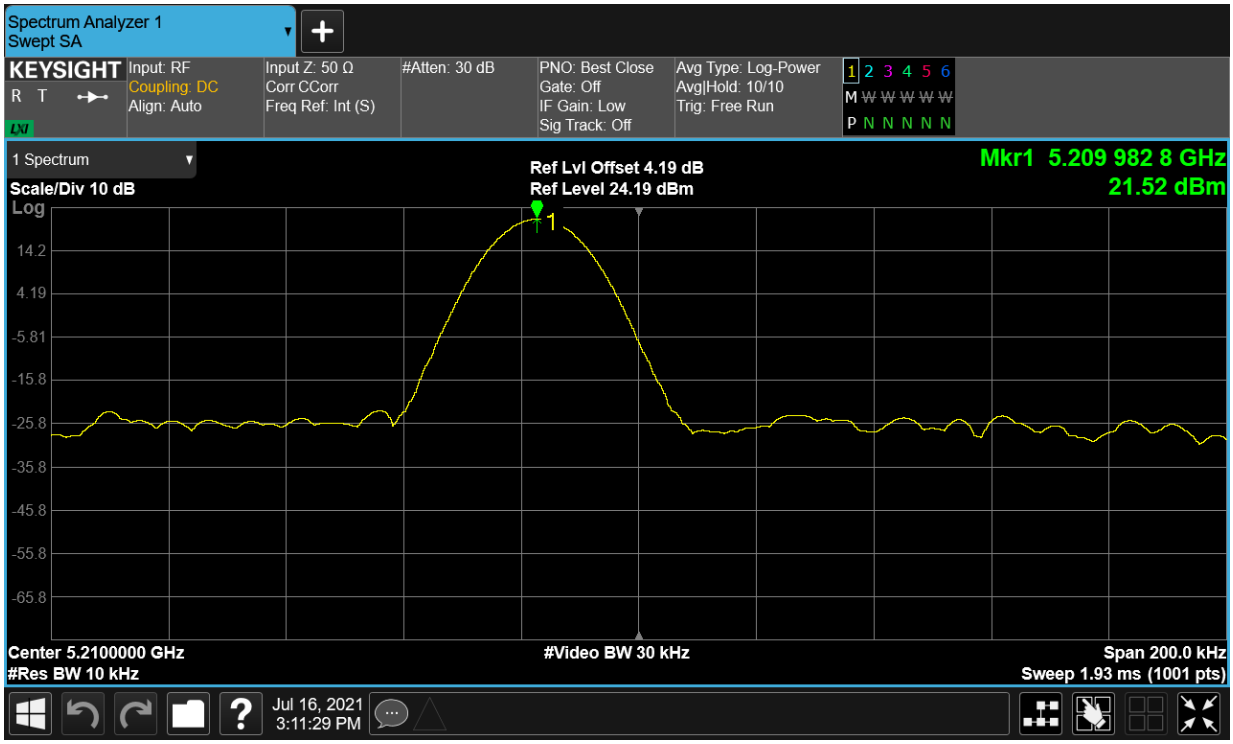
Freq. Stability HVLT ac80 5210MHz Ant1



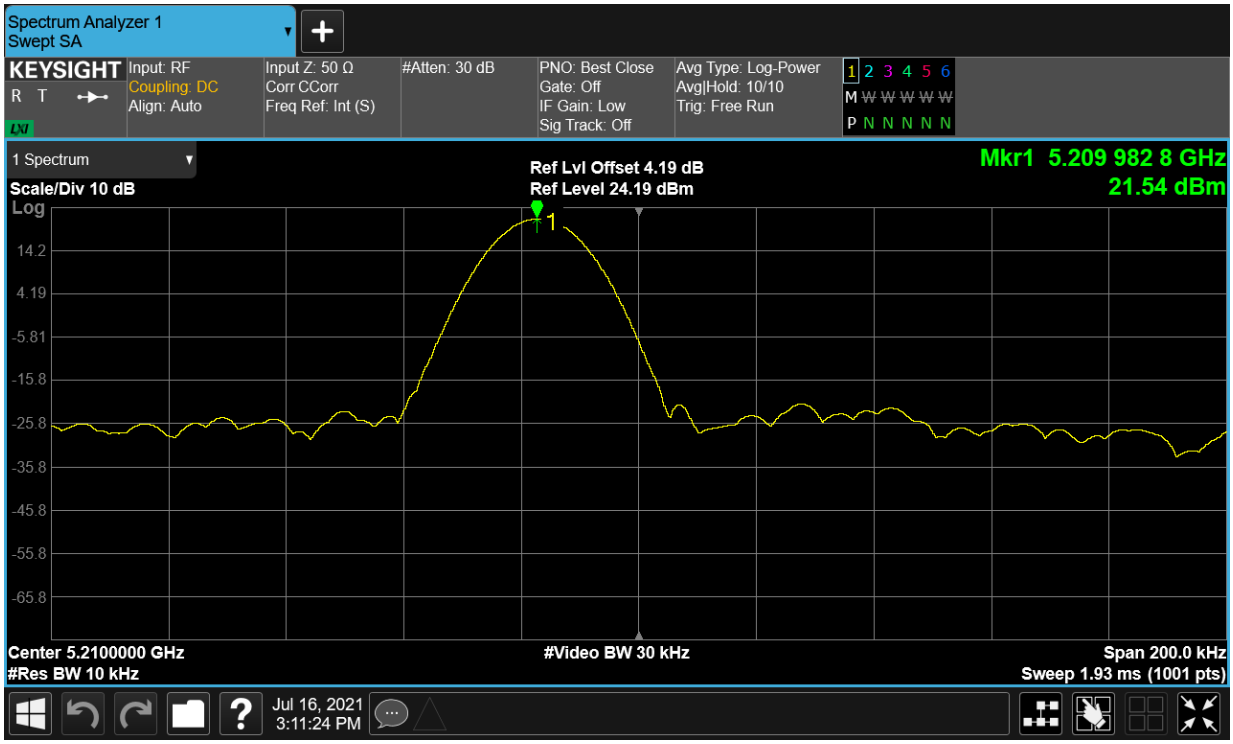
Freq. Stability LVHT ac80 5210MHz Ant1



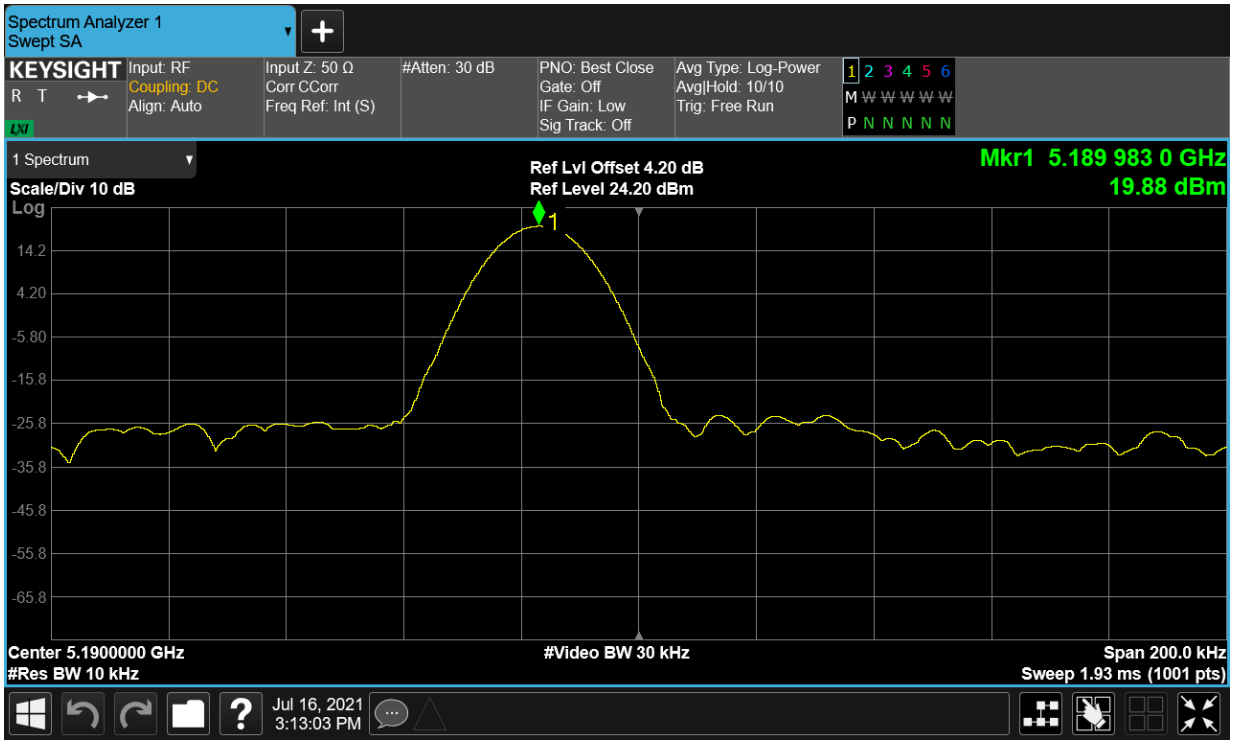
Freq. Stability LVLT ac80 5210MHz Ant1



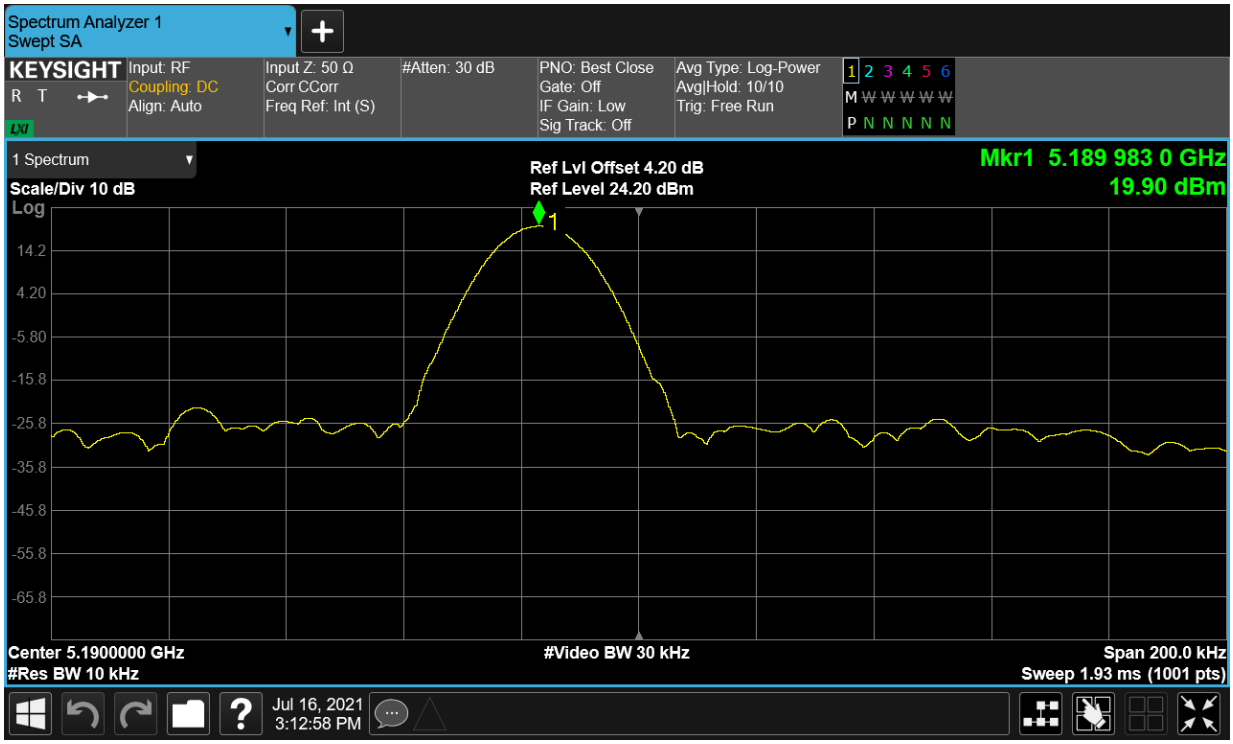
Freq. Stability NVNT ac80 5210MHz Ant1



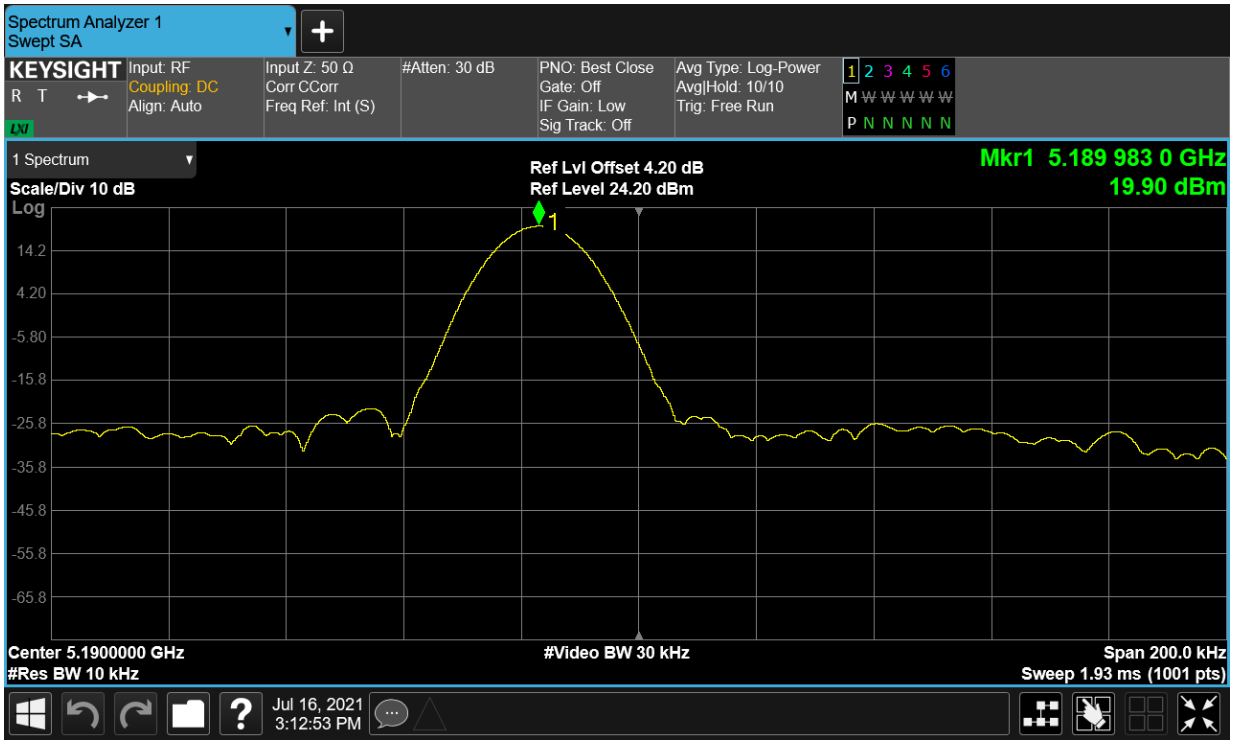
Freq. Stability HVHT n40 5190MHz Ant1



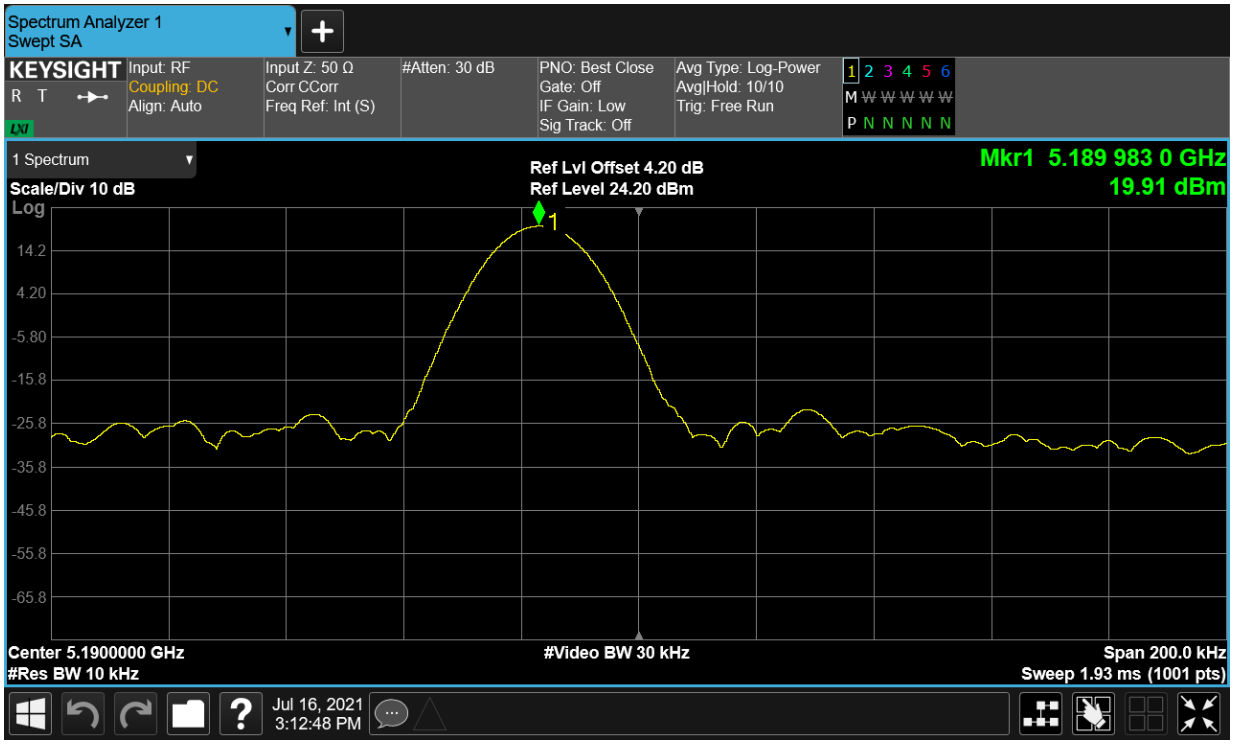
Freq. Stability HVLT n40 5190MHz Ant1



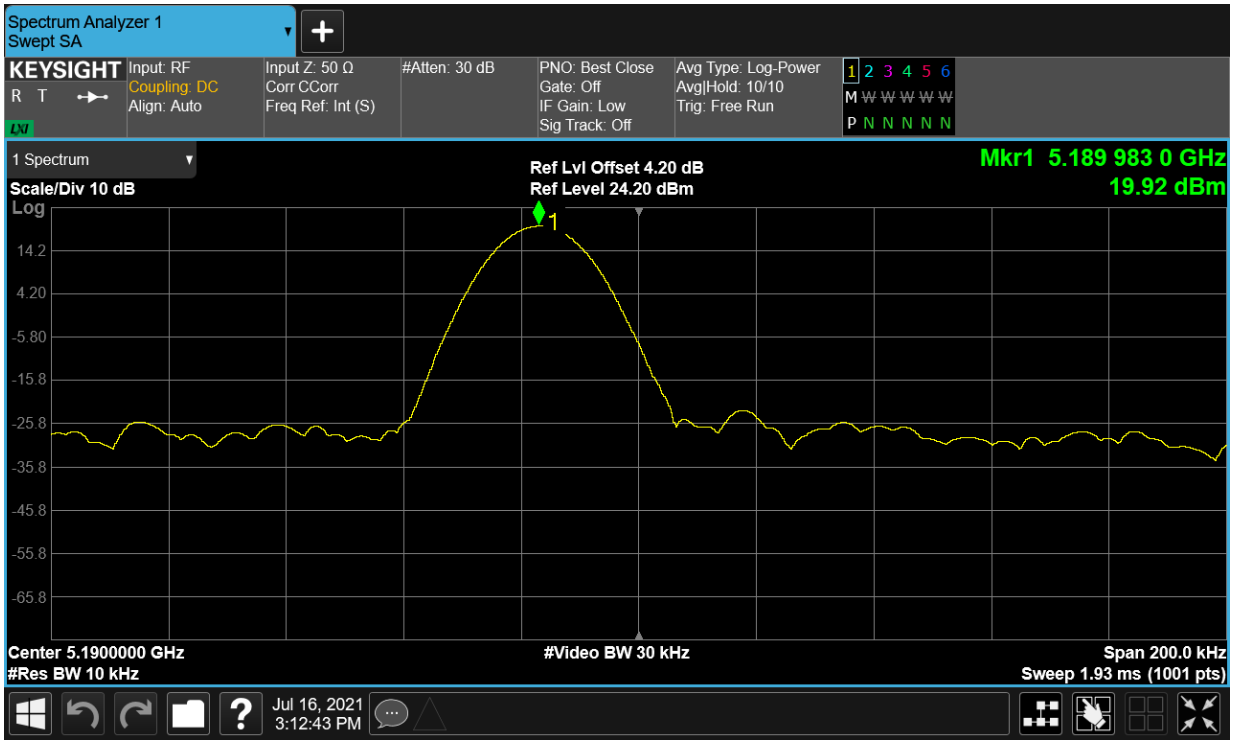
Freq. Stability LVHT n40 5190MHz Ant1



Freq. Stability LVLT n40 5190MHz Ant1



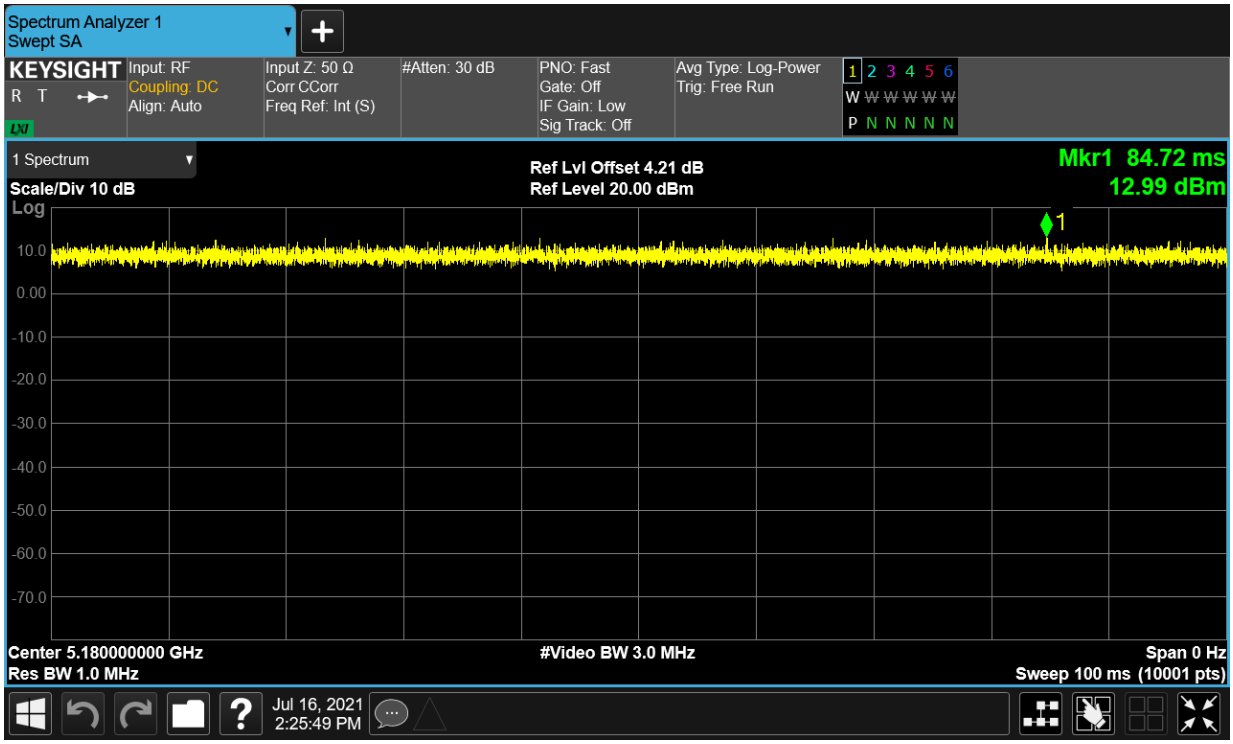
Freq. Stability NVNT n40 5190MHz Ant1



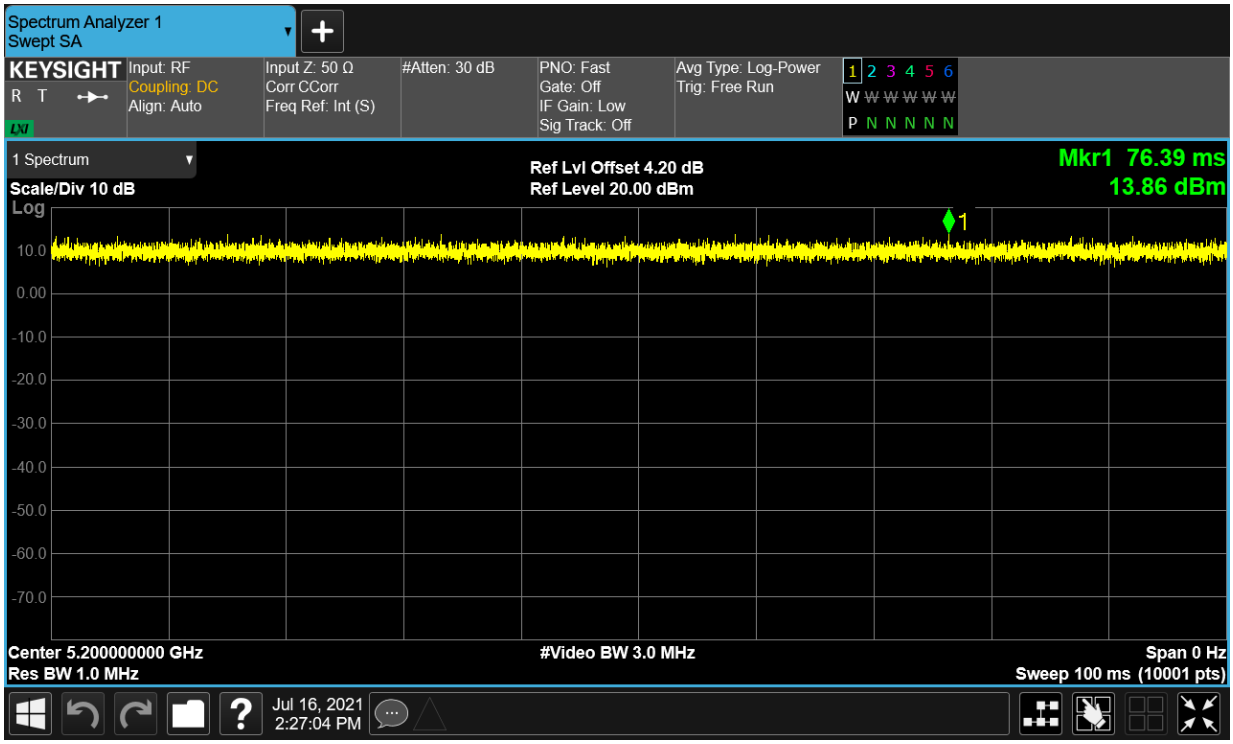
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	100	0
NVNT	a	5200	Ant1	100	0
NVNT	a	5240	Ant1	100	0
NVNT	ac20	5180	Ant1	100	0
NVNT	ac20	5200	Ant1	100	0
NVNT	ac20	5240	Ant1	100	0
NVNT	ac40	5190	Ant1	100	0
NVNT	ac40	5230	Ant1	100	0
NVNT	ac80	5210	Ant1	100	0
NVNT	n20	5180	Ant1	100	0
NVNT	n20	5200	Ant1	100	0
NVNT	n20	5240	Ant1	100	0
NVNT	n40	5190	Ant1	100	0
NVNT	n40	5230	Ant1	100	0

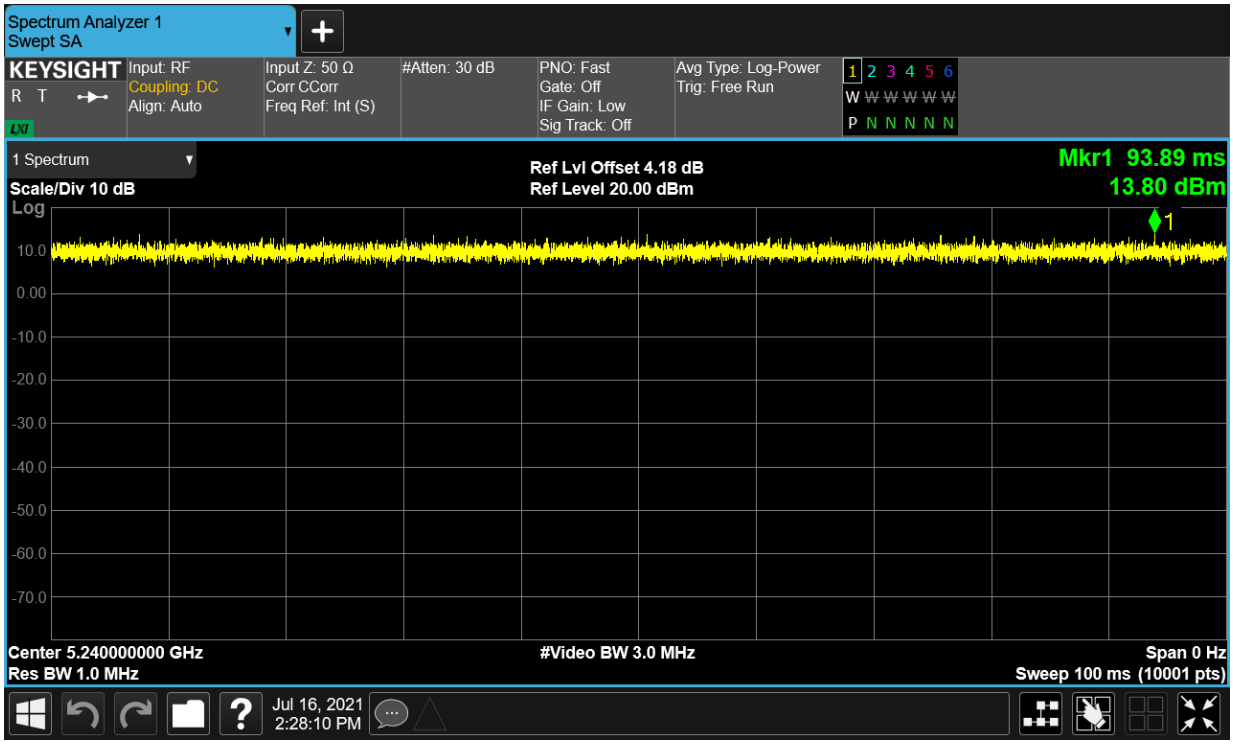
Duty Cycle NVNT a 5180MHz Ant1



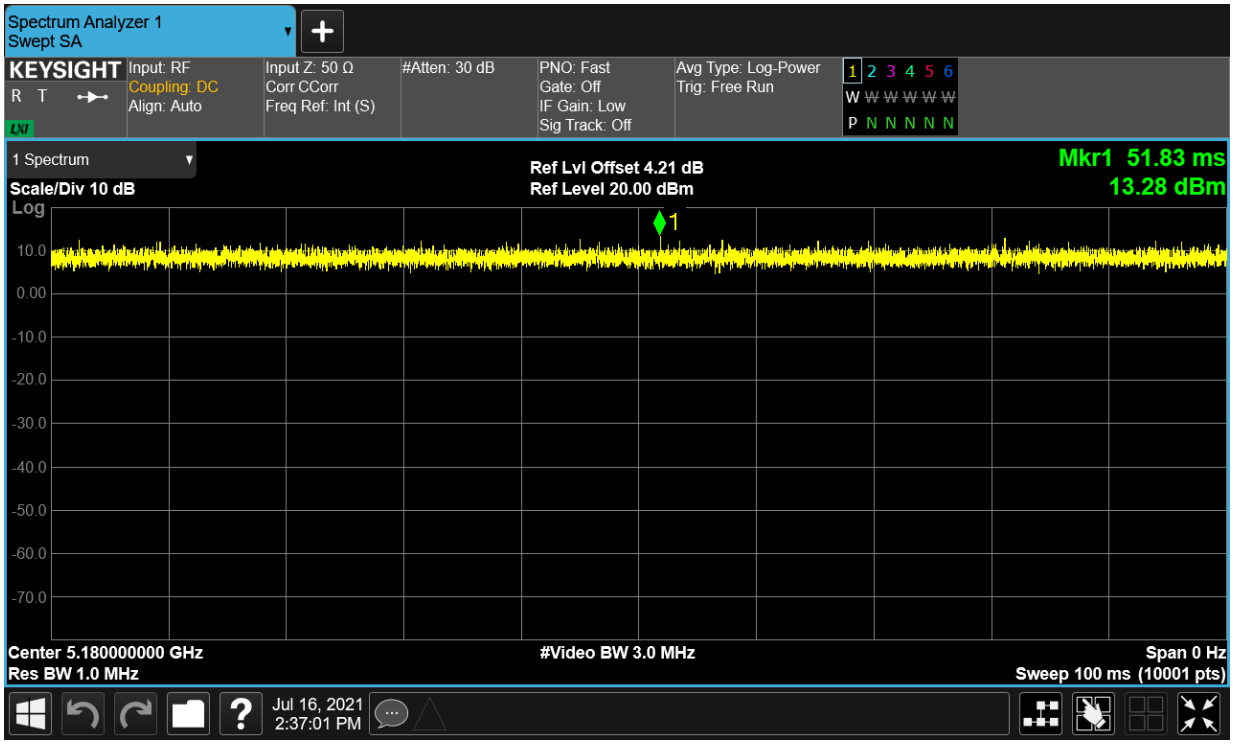
Duty Cycle NVNT a 5200MHz Ant1



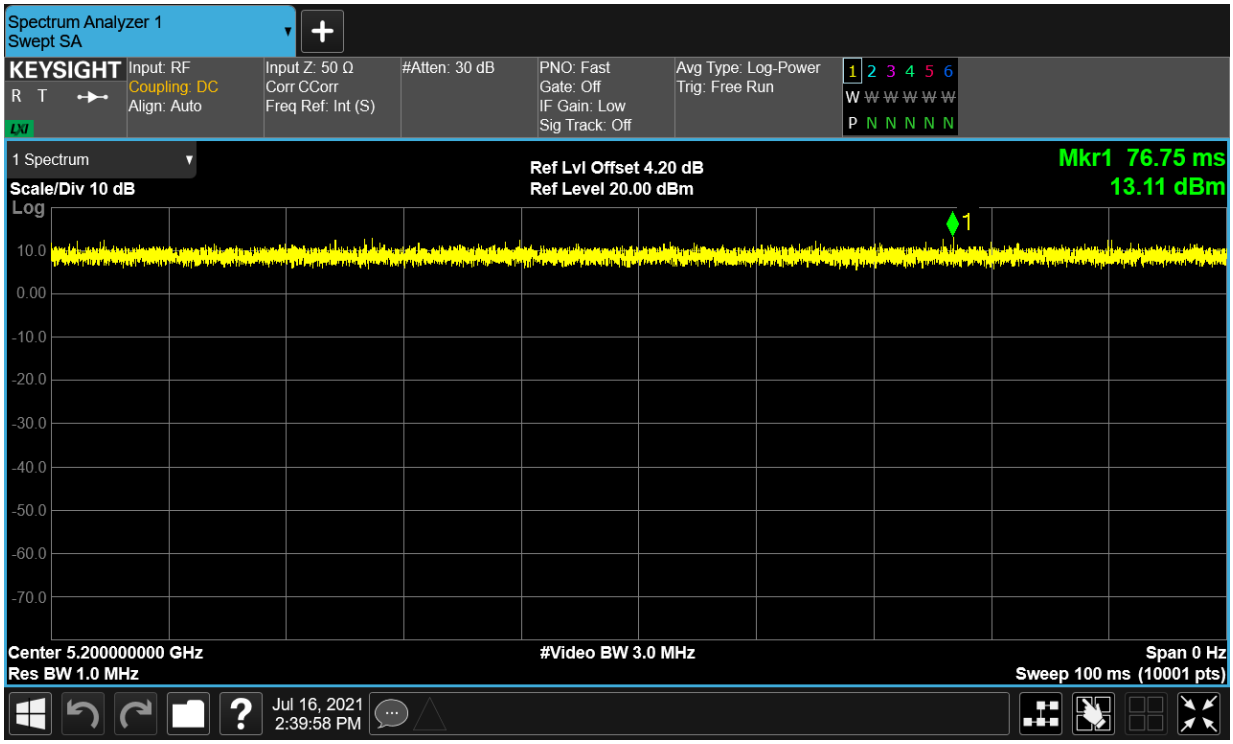
Duty Cycle NVNT a 5240MHz Ant1



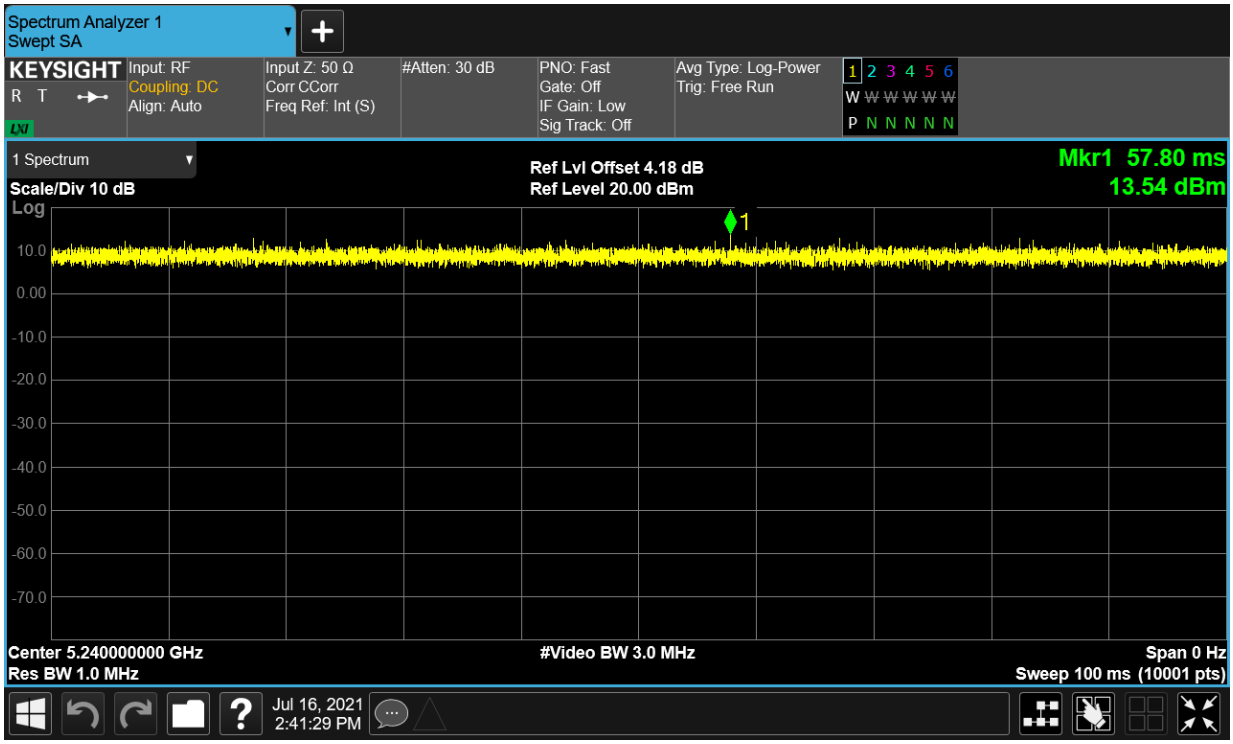
Duty Cycle NVNT ac20 5180MHz Ant1



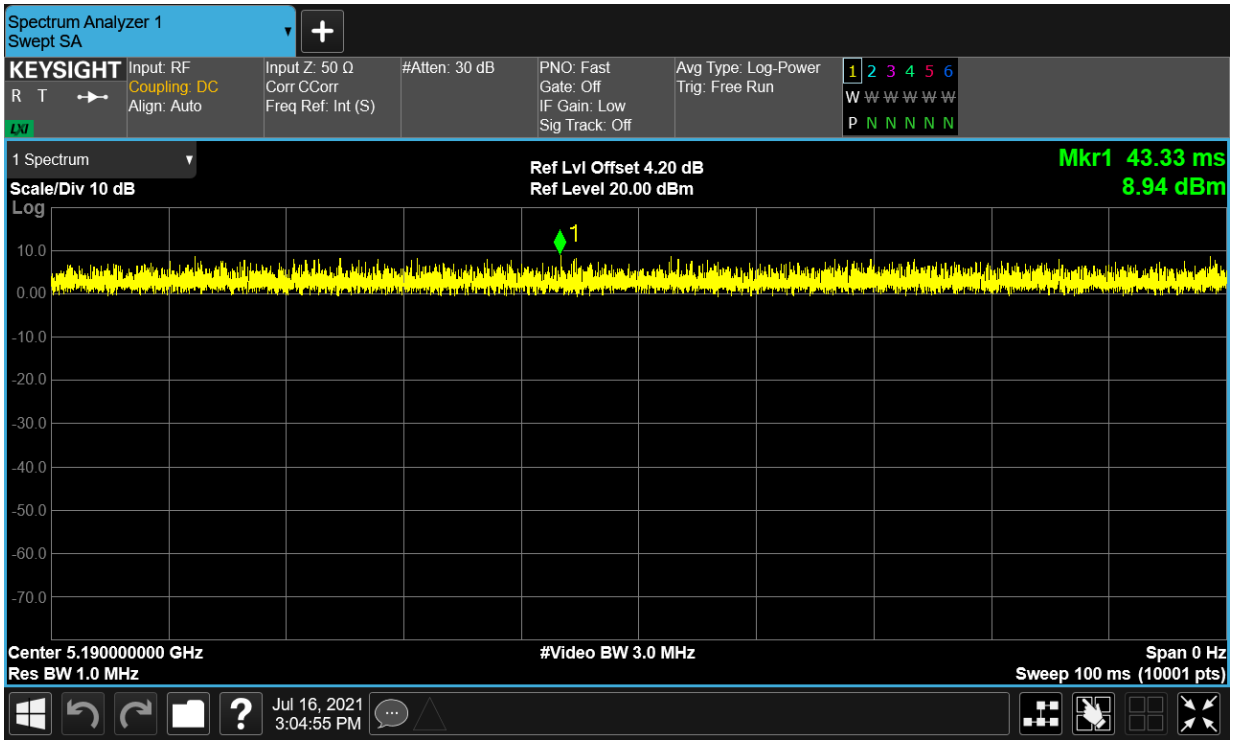
Duty Cycle NVNT ac20 5200MHz Ant1



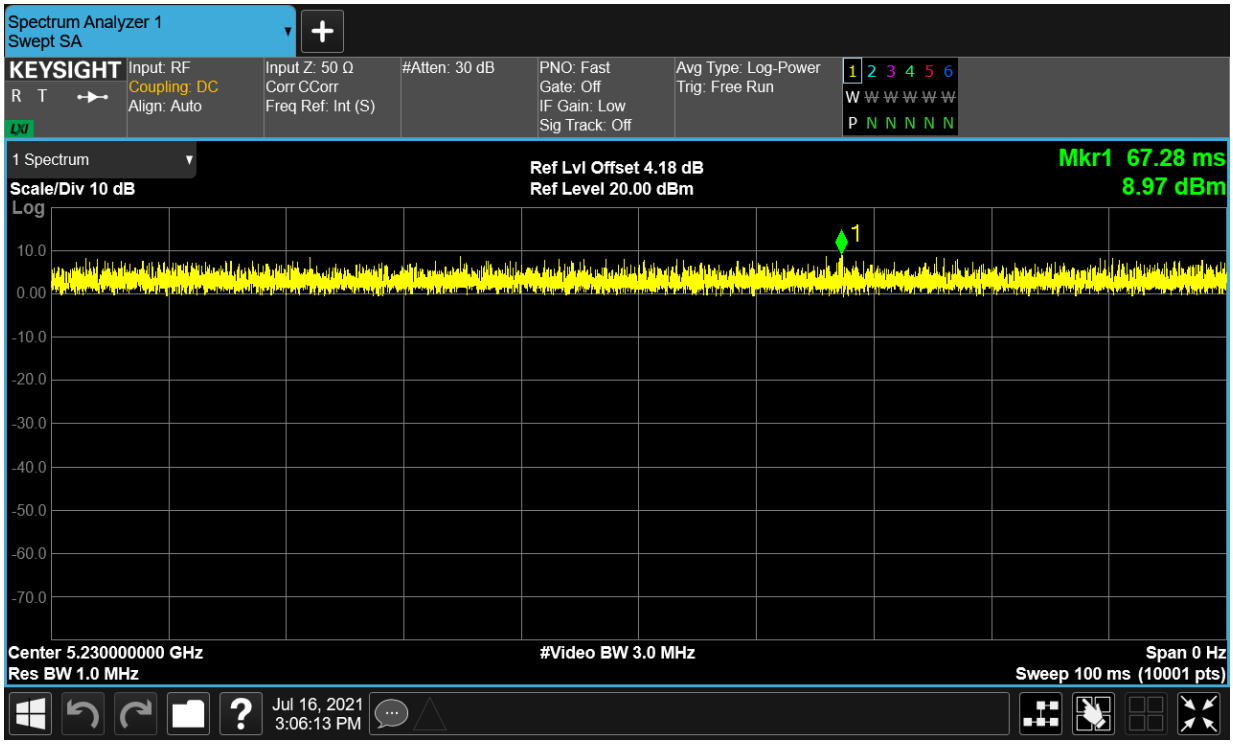
Duty Cycle NVNT ac20 5240MHz Ant1



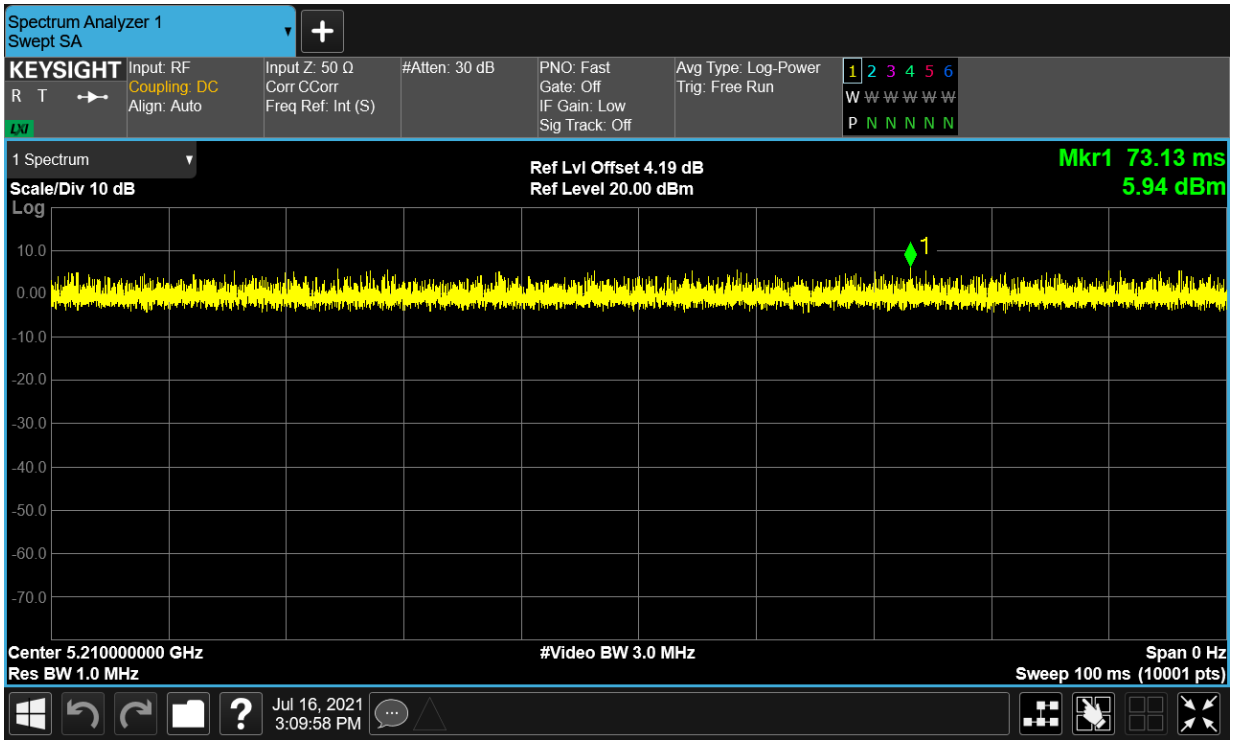
Duty Cycle NVNT ac40 5190MHz Ant1



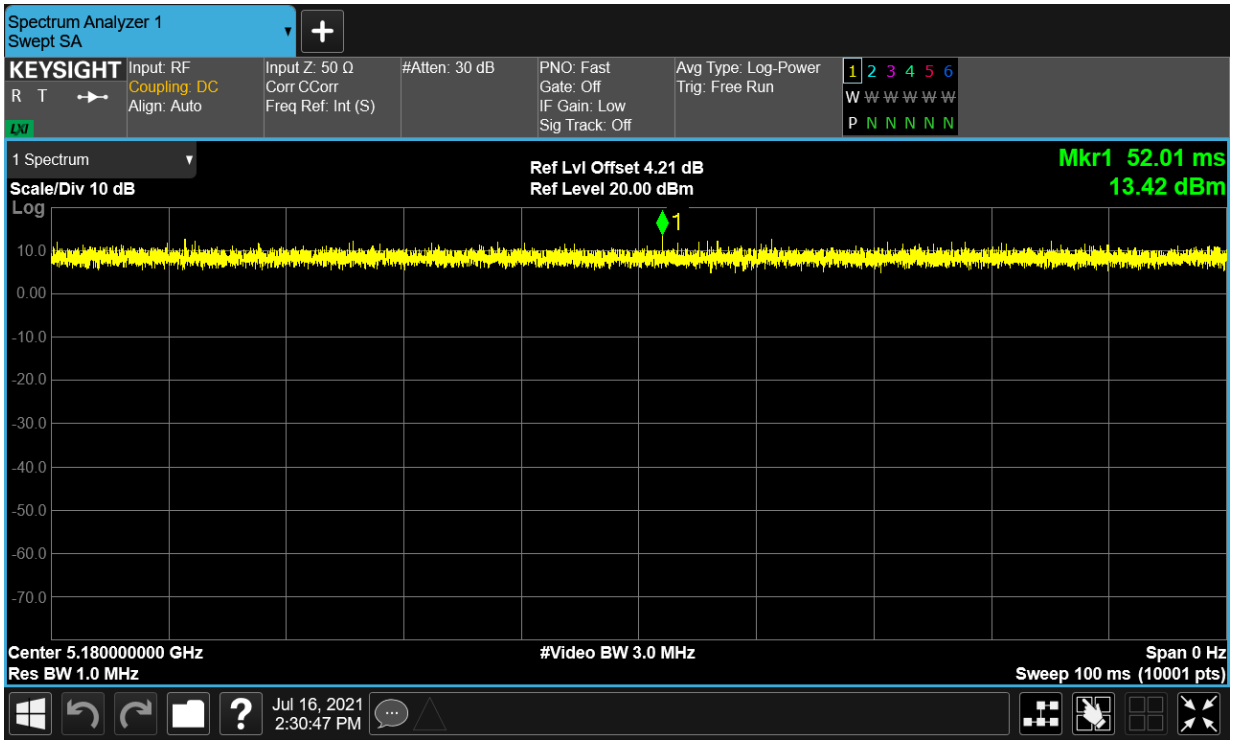
Duty Cycle NVNT ac40 5230MHz Ant1



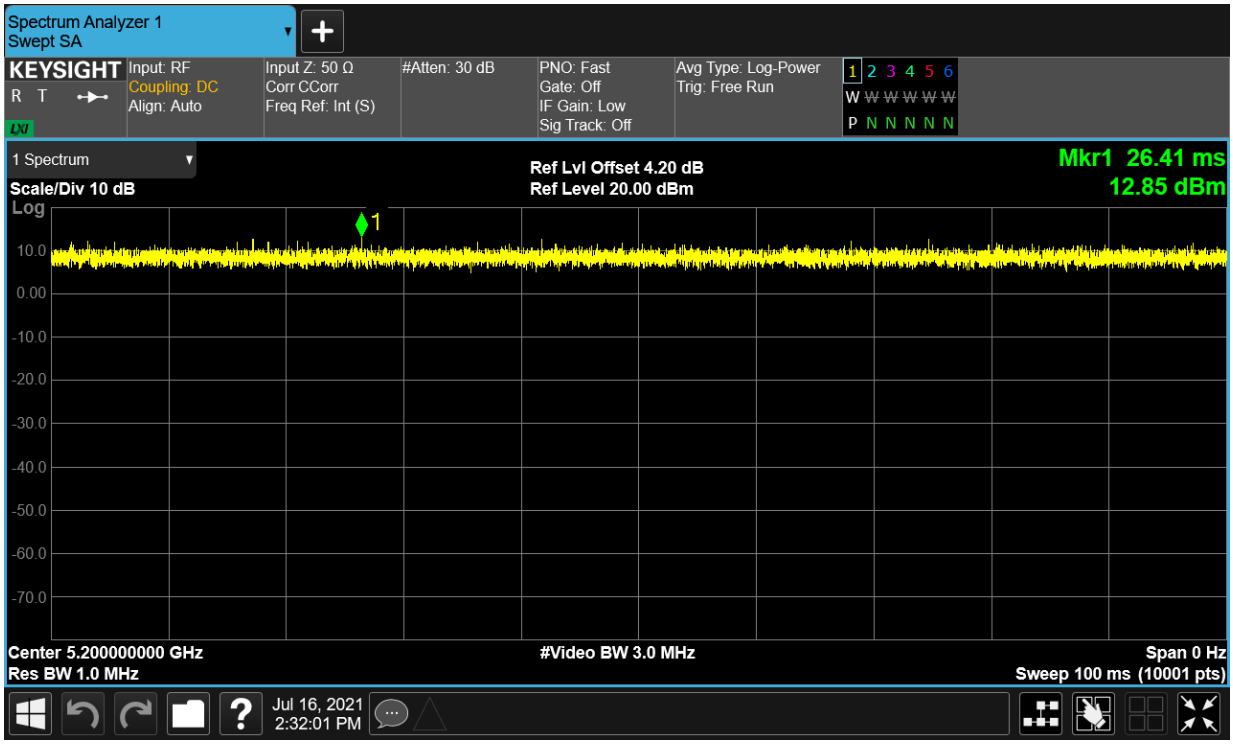
Duty Cycle NVNT ac80 5210MHz Ant1



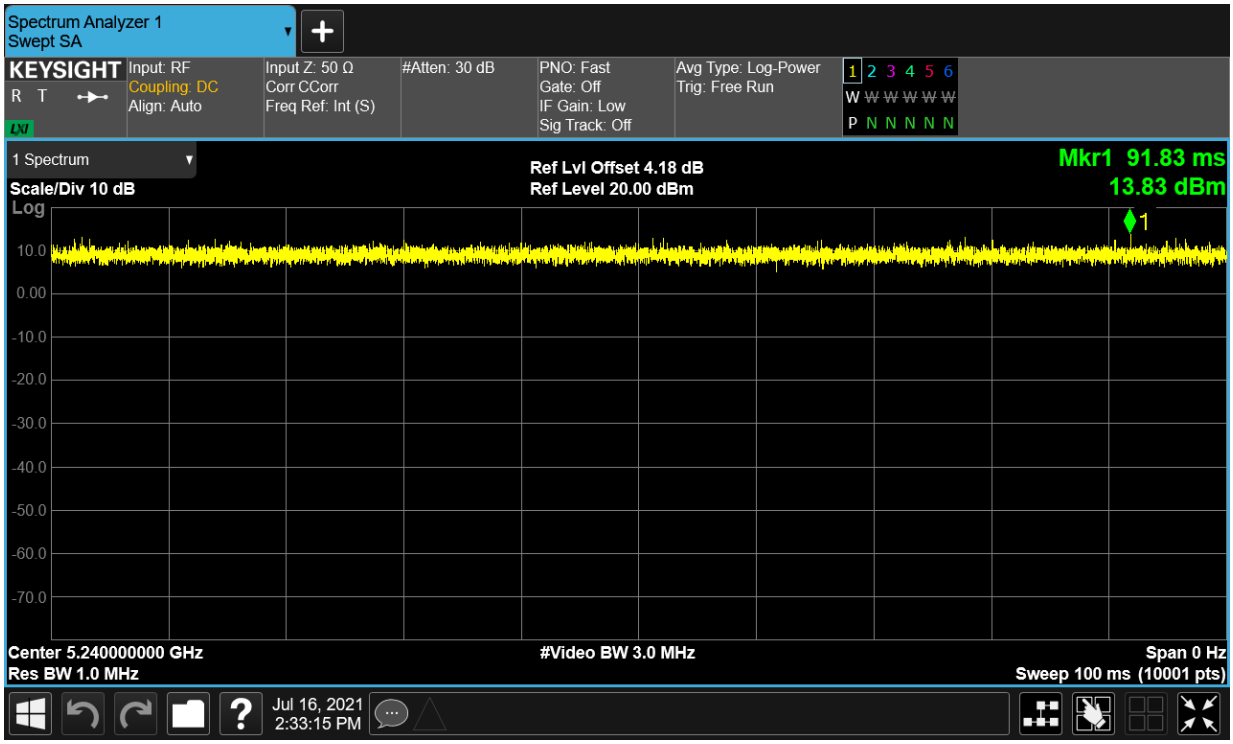
Duty Cycle NVNT n20 5180MHz Ant1



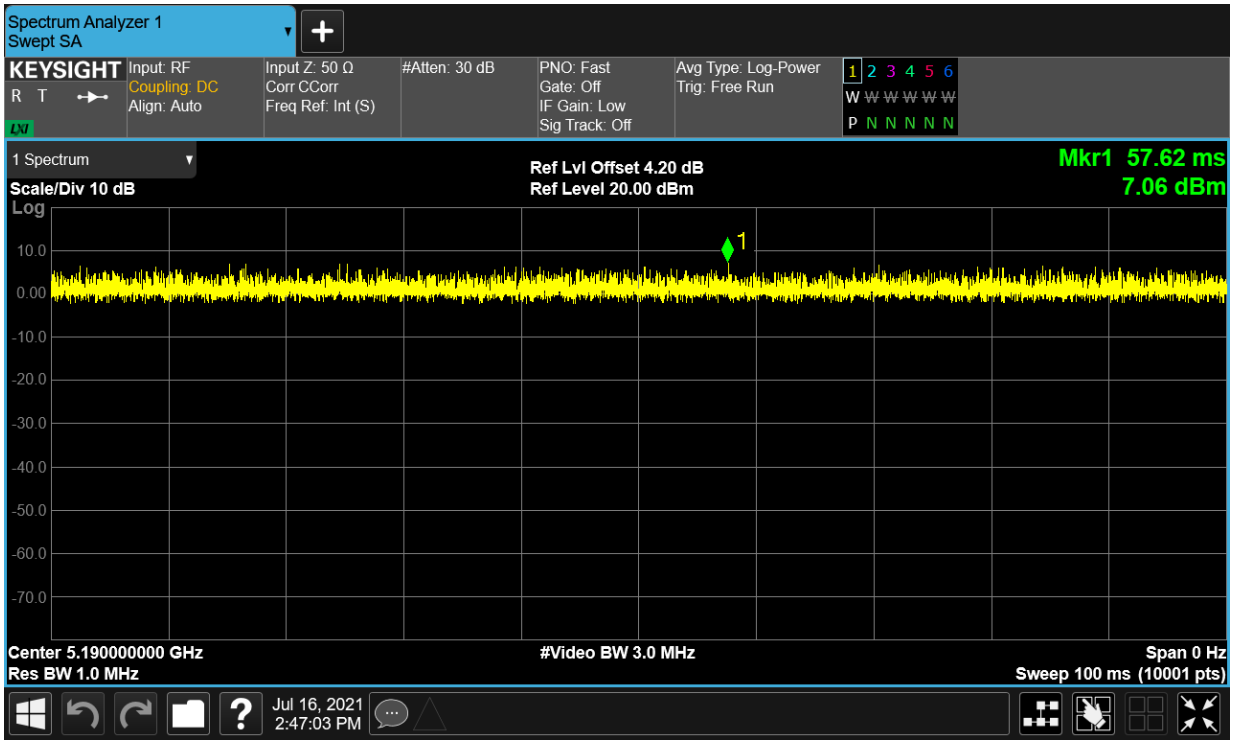
Duty Cycle NVNT n20 5200MHz Ant1



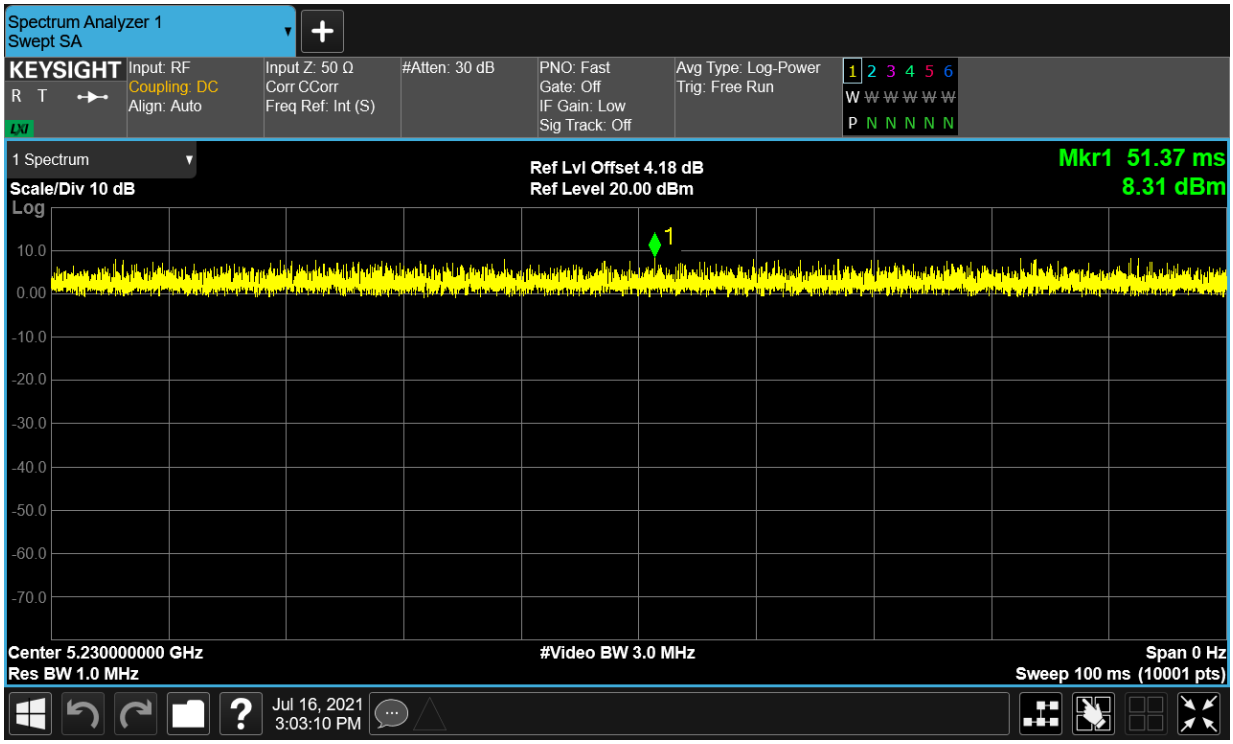
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

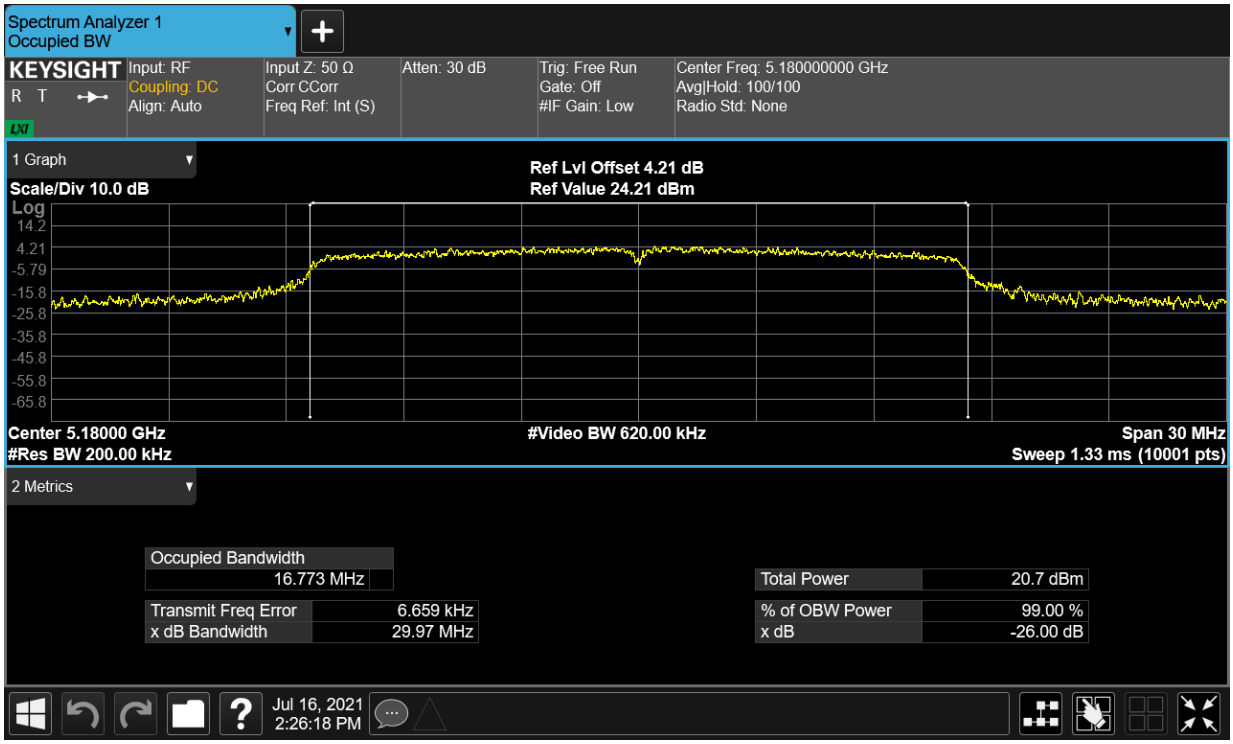
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	15.37	0	15.37	24	Pass
NVNT	a	5200	Ant1	16.4	0	16.4	24	Pass

NVNT	a	5240	Ant1	16.15	0	16.15	24	Pass
NVNT	ac20	5180	Ant1	14.96	0	14.96	24	Pass
NVNT	ac20	5200	Ant1	15.5	0	15.5	24	Pass
NVNT	ac20	5240	Ant1	15.22	0	15.22	24	Pass
NVNT	ac40	5190	Ant1	15.83	0	15.83	24	Pass
NVNT	ac40	5230	Ant1	15.85	0	15.85	24	Pass
NVNT	ac80	5210	Ant1	15.6	0	15.6	24	Pass
NVNT	n20	5180	Ant1	15.02	0	15.02	24	Pass
NVNT	n20	5200	Ant1	15.22	0	15.22	24	Pass
NVNT	n20	5240	Ant1	15.15	0	15.15	24	Pass
NVNT	n40	5190	Ant1	14.39	0	14.39	24	Pass
NVNT	n40	5230	Ant1	15.54	0	15.54	24	Pass

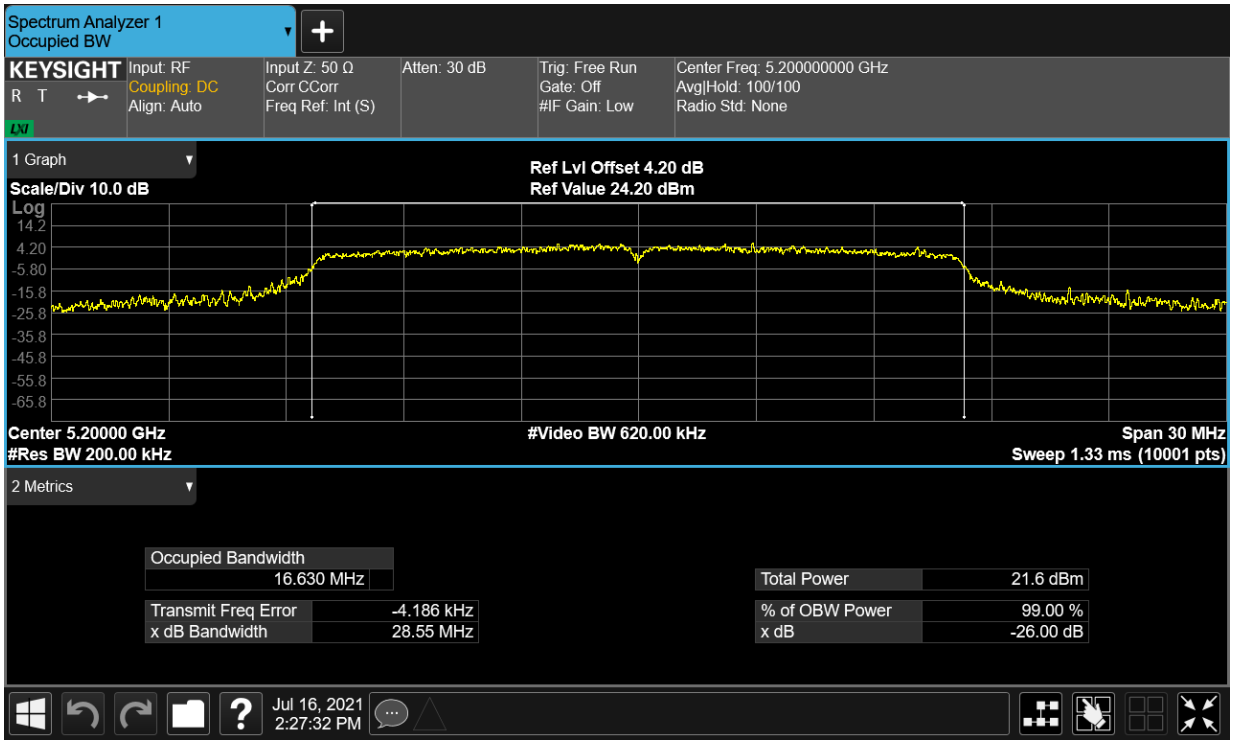
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.77256753
NVNT	a	5200	Ant1	16.62992447
NVNT	a	5240	Ant1	16.61934612
NVNT	ac20	5180	Ant1	17.8497883
NVNT	ac20	5200	Ant1	17.63084993
NVNT	ac20	5240	Ant1	17.63376659
NVNT	ac40	5190	Ant1	36.01209515
NVNT	ac40	5230	Ant1	35.99104927
NVNT	ac80	5210	Ant1	75.23860384
NVNT	n20	5180	Ant1	17.83417029
NVNT	n20	5200	Ant1	17.63327553
NVNT	n20	5240	Ant1	17.63755653
NVNT	n40	5190	Ant1	36.01136392
NVNT	n40	5230	Ant1	36.02630501

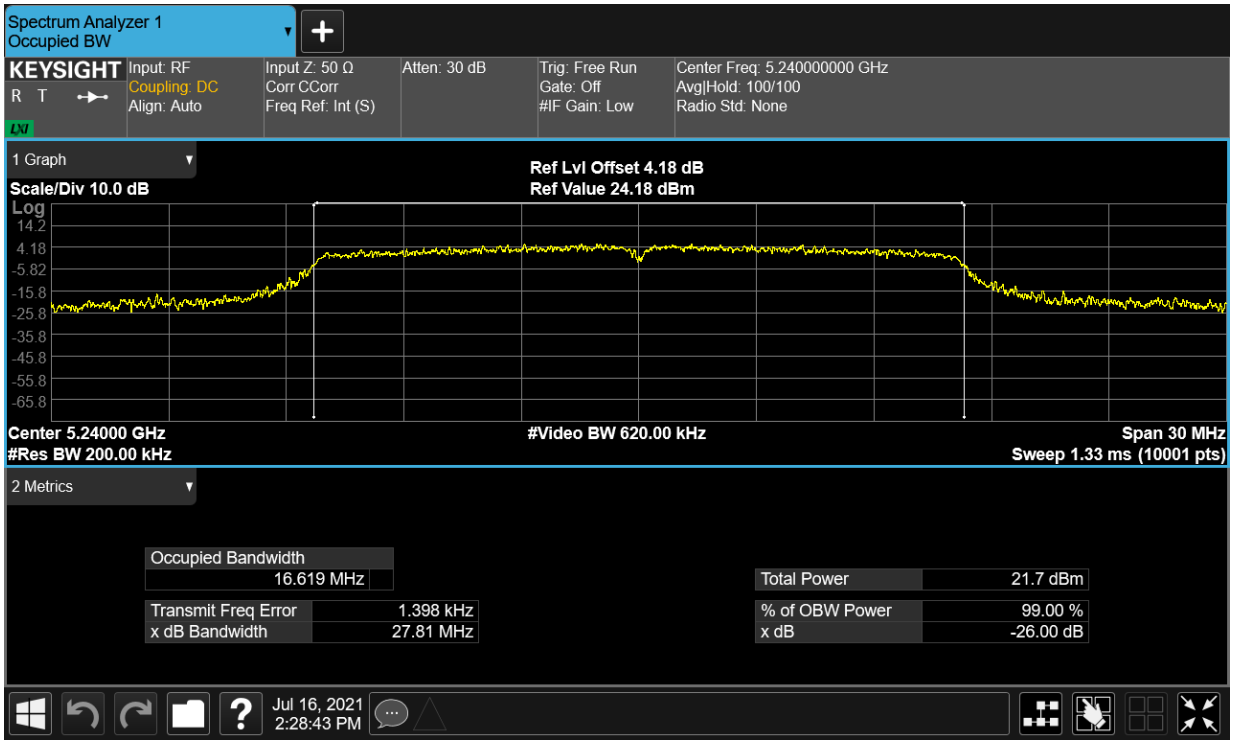
OBW NVNT a 5180MHz Ant1



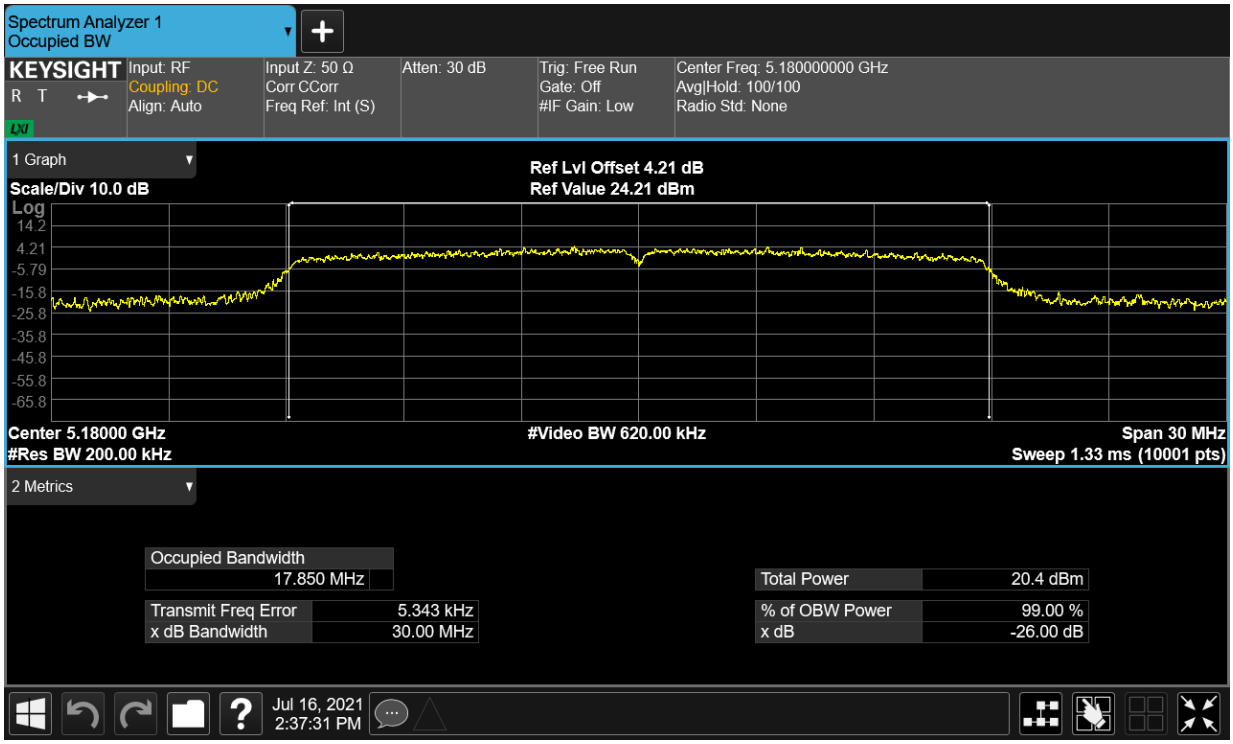
OBW NVNT a 5200MHz Ant1



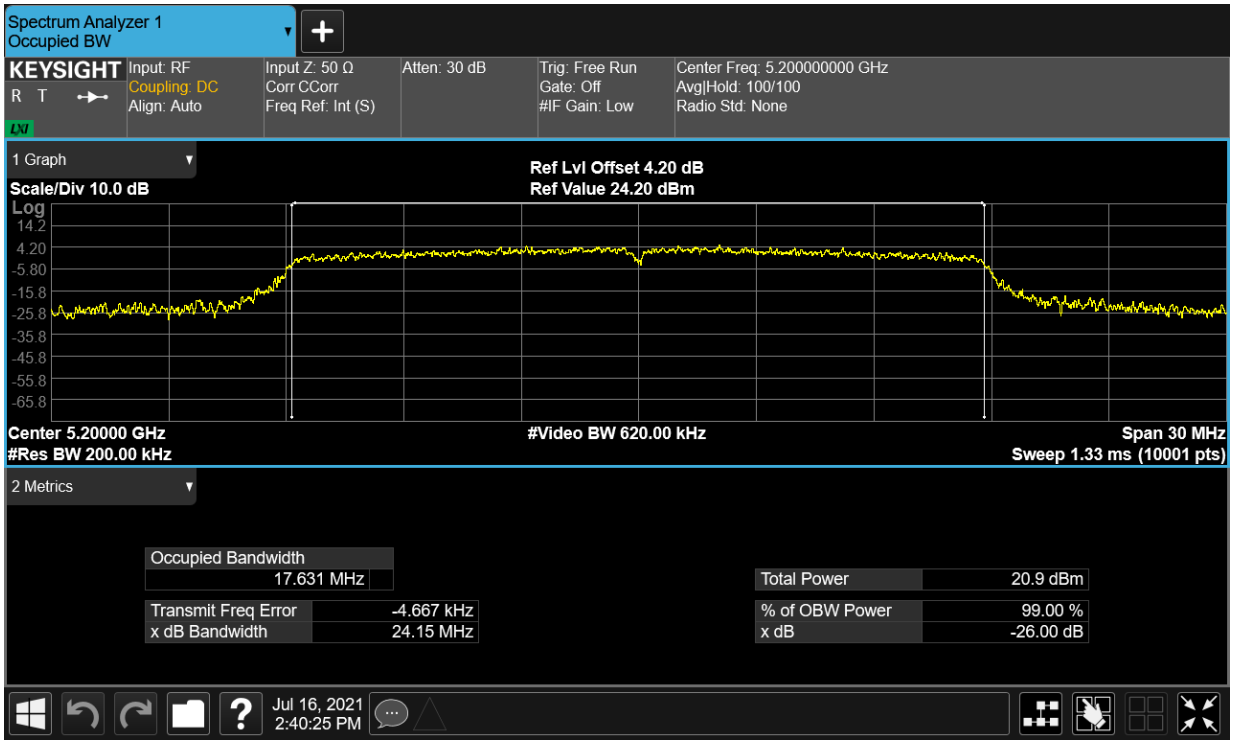
OBW NVNT a 5240MHz Ant1



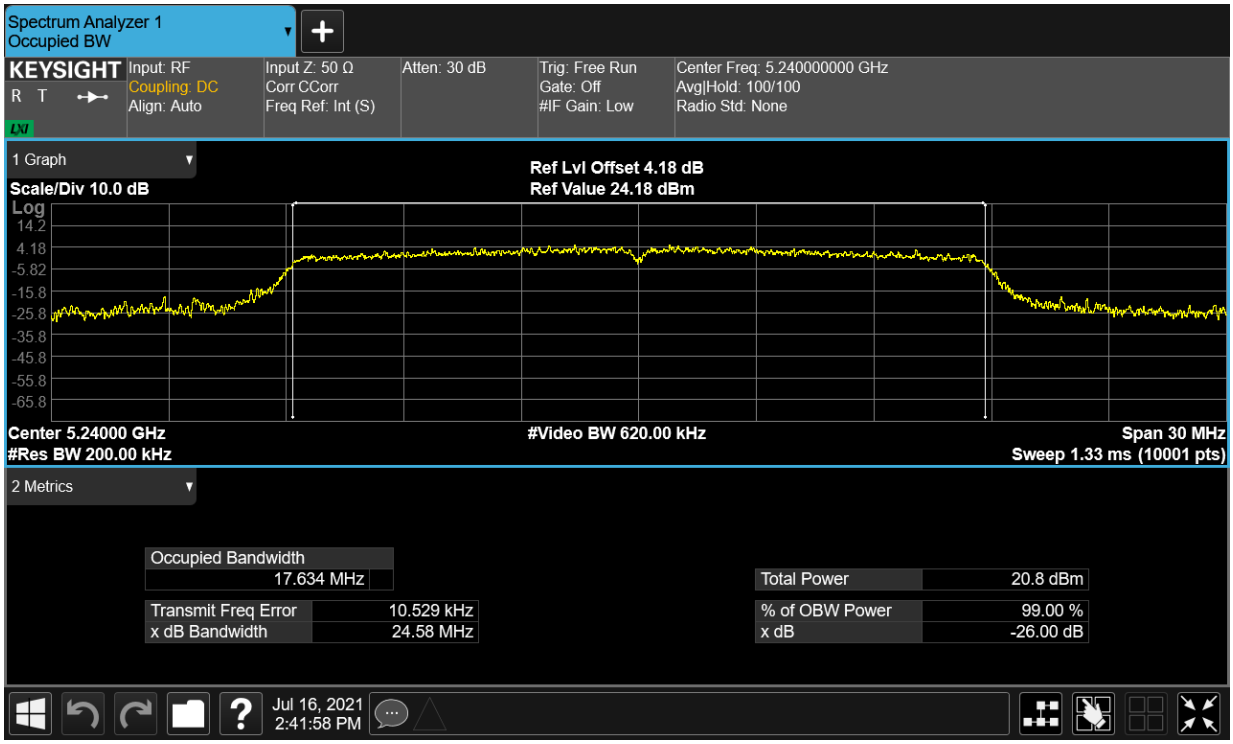
OBW NVNT ac20 5180MHz Ant1



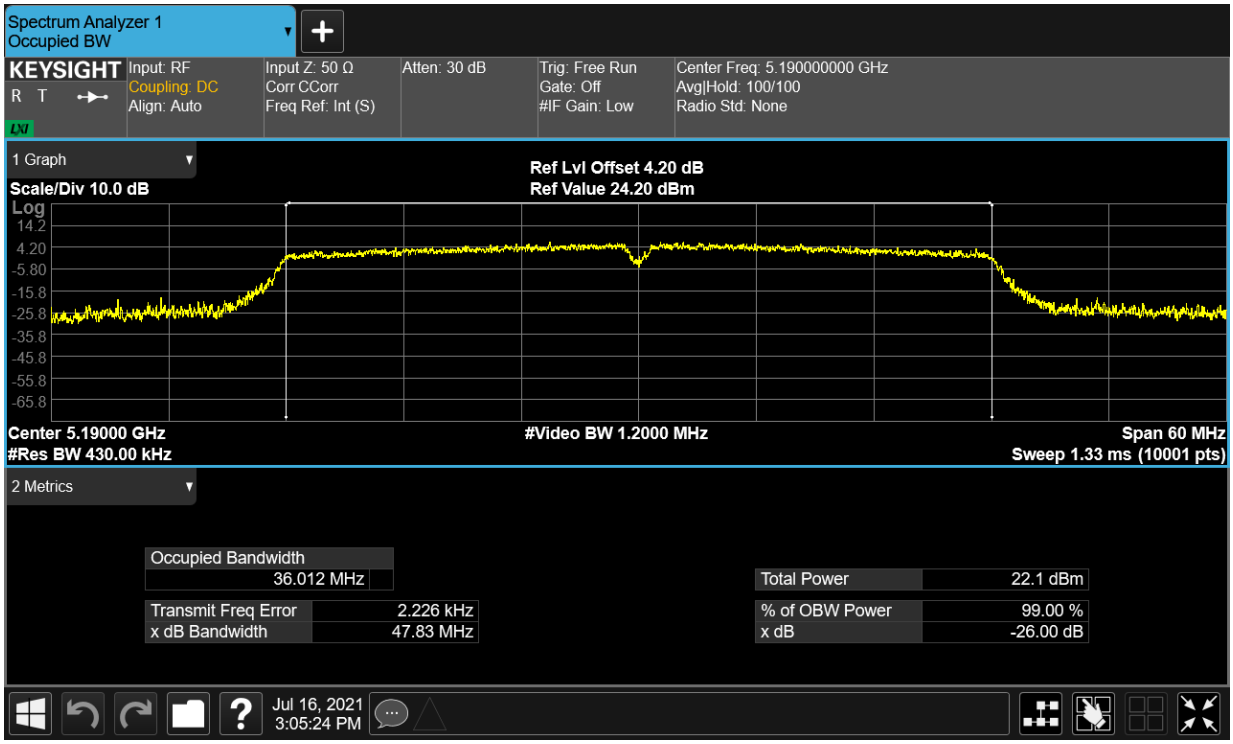
OBW NVNT ac20 5200MHz Ant1



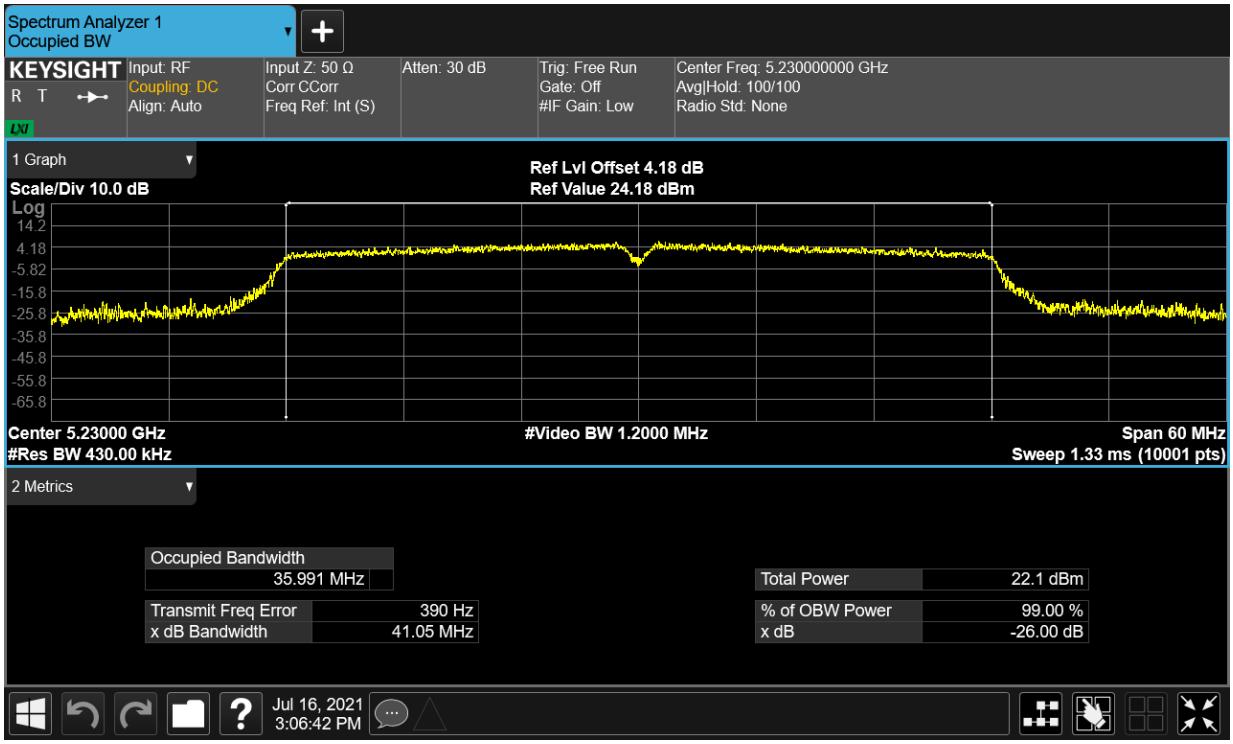
OBW NVNT ac20 5240MHz Ant1



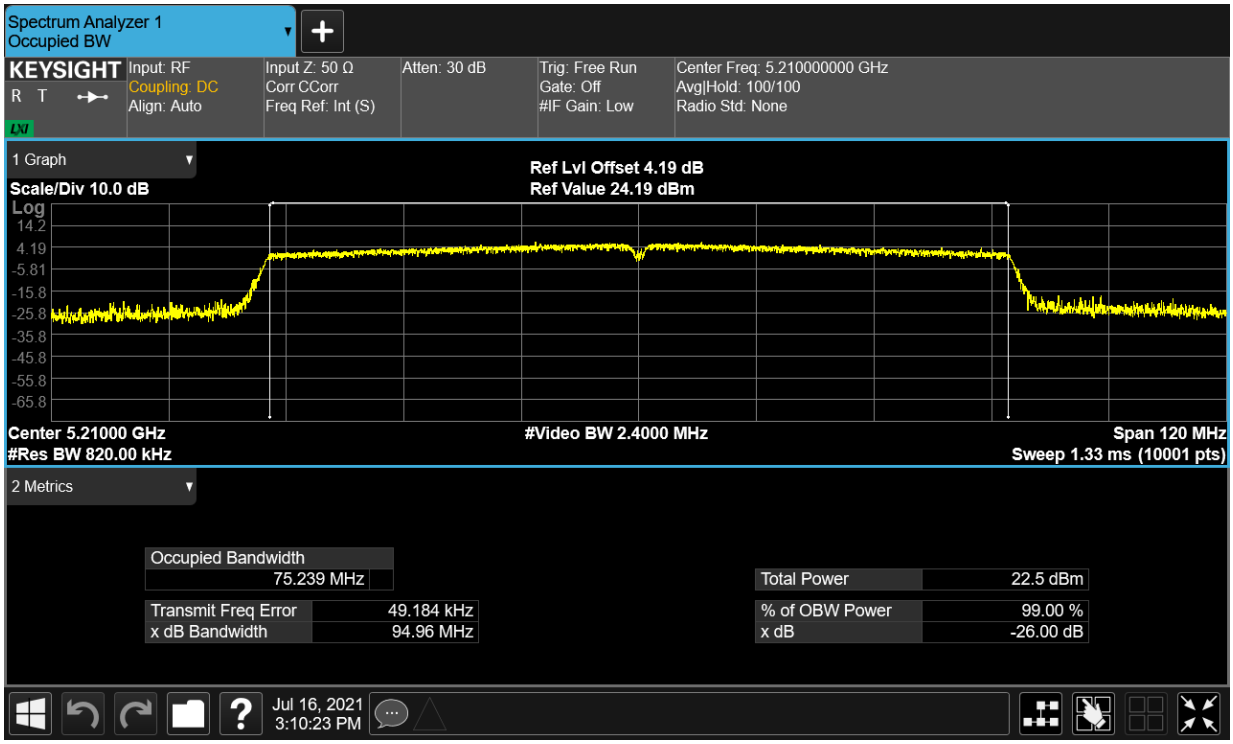
OBW NVNT ac40 5190MHz Ant1



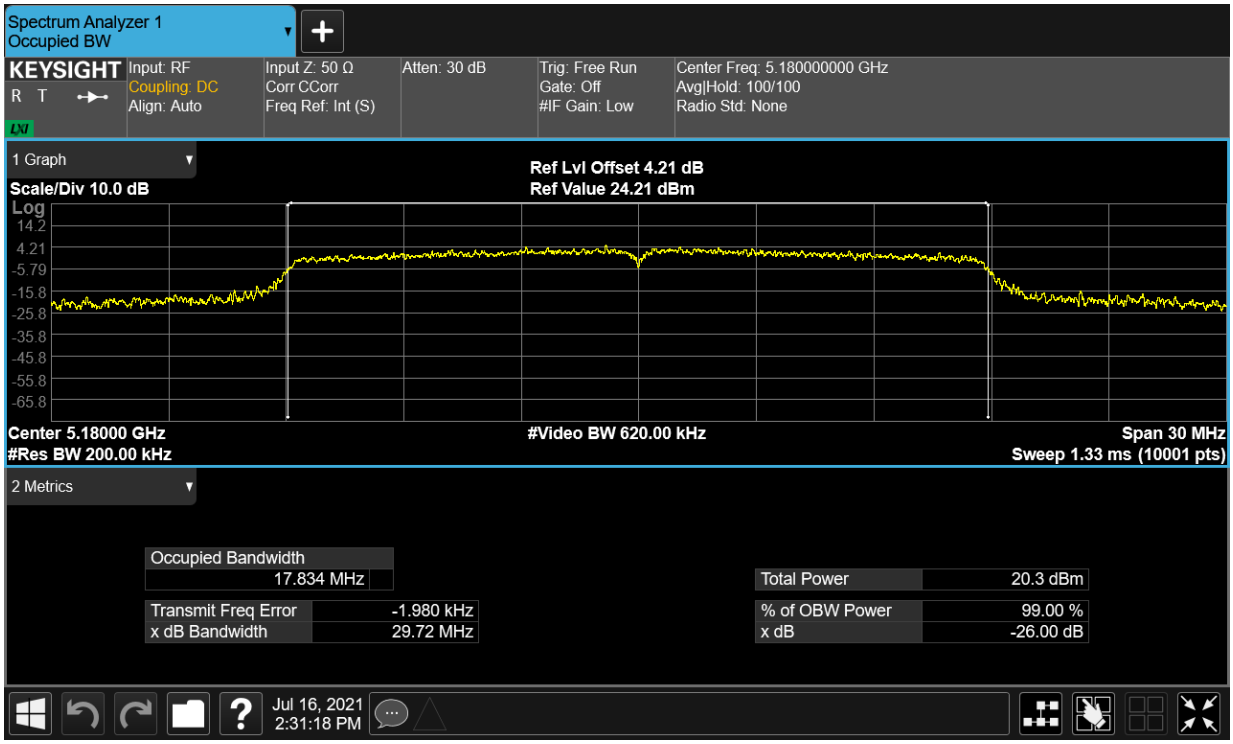
OBW NVNT ac40 5230MHz Ant1



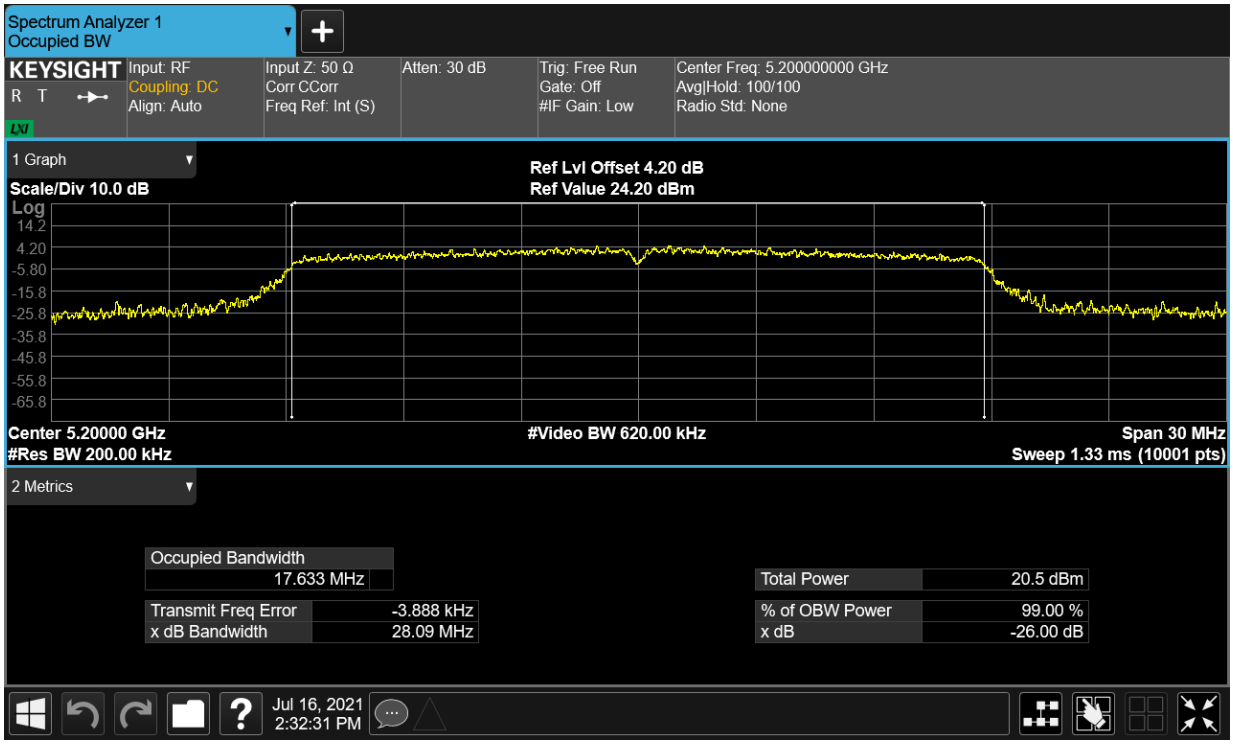
OBW NVNT ac80 5210MHz Ant1



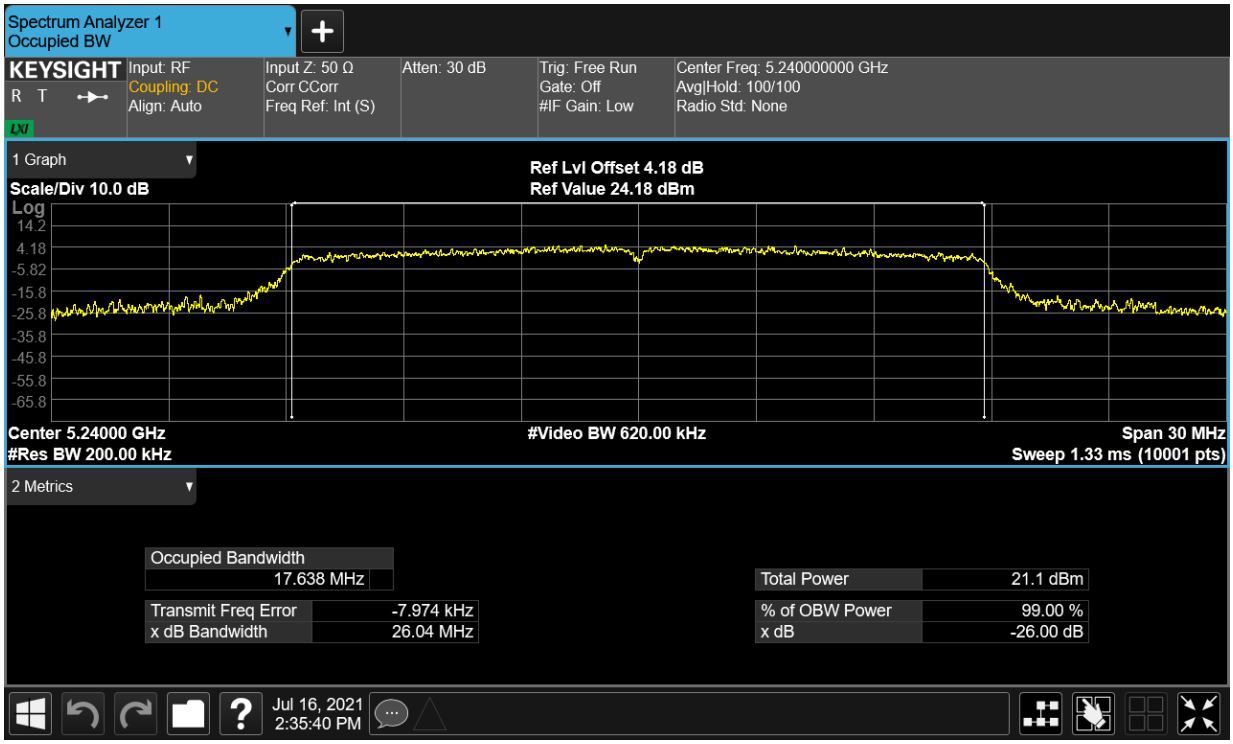
OBW NVNT n20 5180MHz Ant1



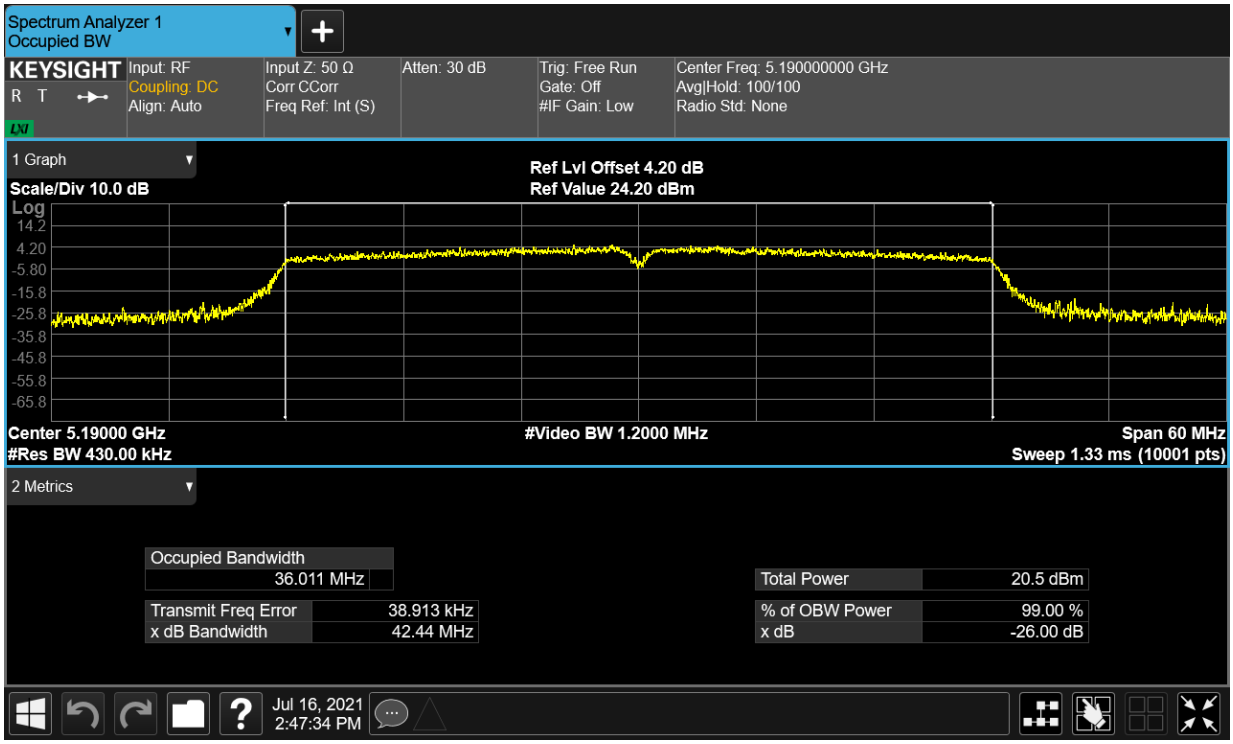
OBW NVNT n20 5200MHz Ant1



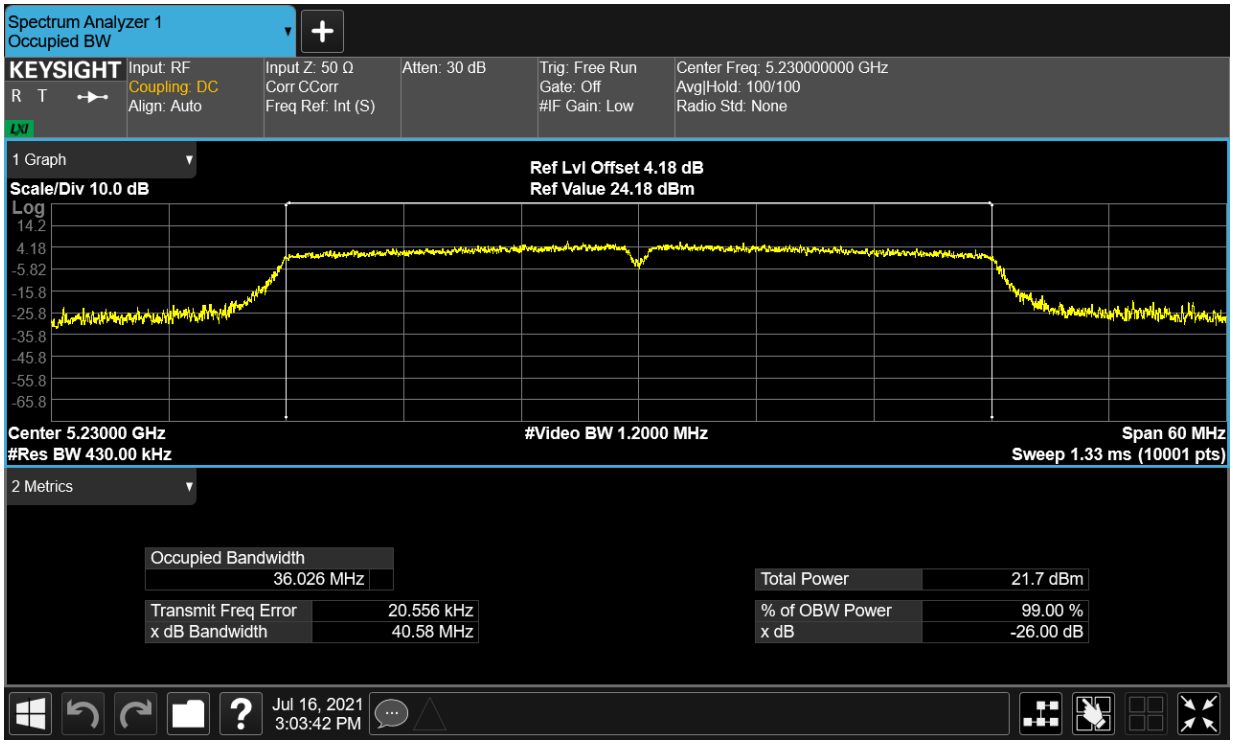
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1

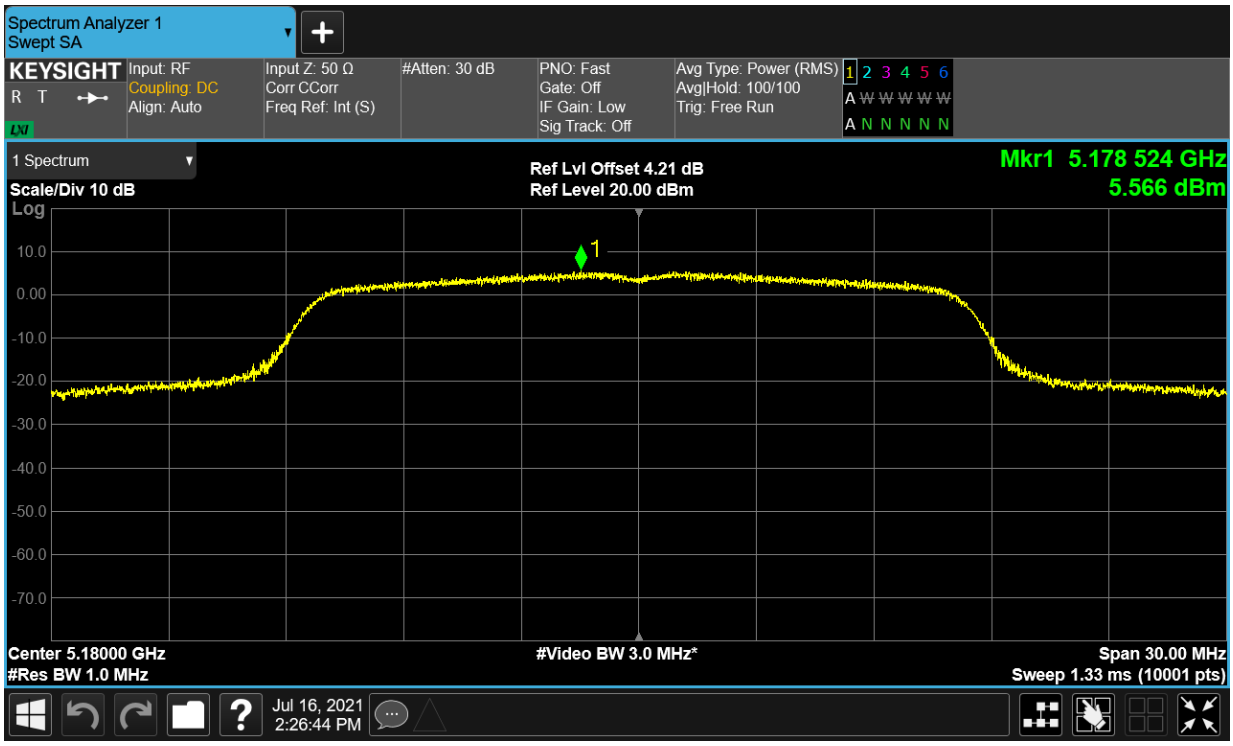


Maximum Power Spectral Density Level

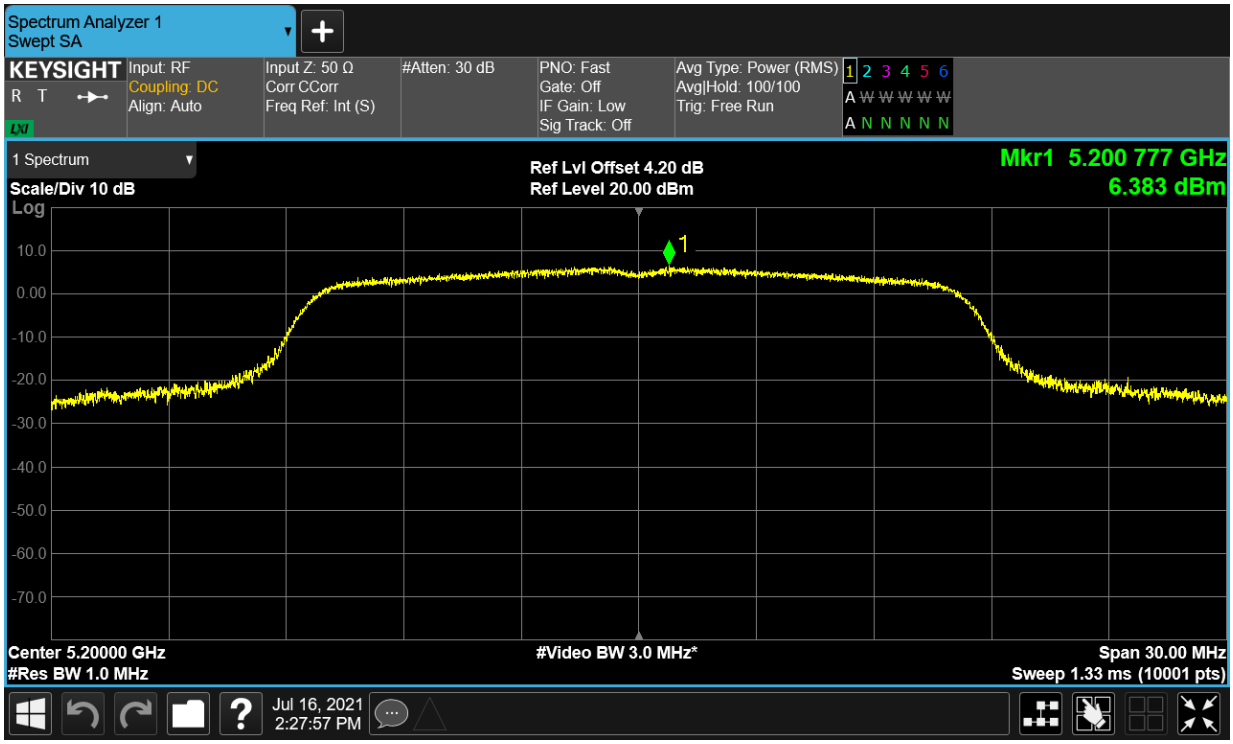
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.566	11	Pass
NVNT	a	5200	Ant1	6.383	11	Pass
NVNT	a	5240	Ant1	6.401	11	Pass

NVNT	ac20	5180	Ant1	5.054	11	Pass
NVNT	ac20	5200	Ant1	5.554	11	Pass
NVNT	ac20	5240	Ant1	5.485	11	Pass
NVNT	ac40	5190	Ant1	3.91	11	Pass
NVNT	ac40	5230	Ant1	3.694	11	Pass
NVNT	ac80	5210	Ant1	0.351	11	Pass
NVNT	n20	5180	Ant1	5.015	11	Pass
NVNT	n20	5200	Ant1	4.995	11	Pass
NVNT	n20	5240	Ant1	5.721	11	Pass
NVNT	n40	5190	Ant1	2.06	11	Pass
NVNT	n40	5230	Ant1	3.42	11	Pass

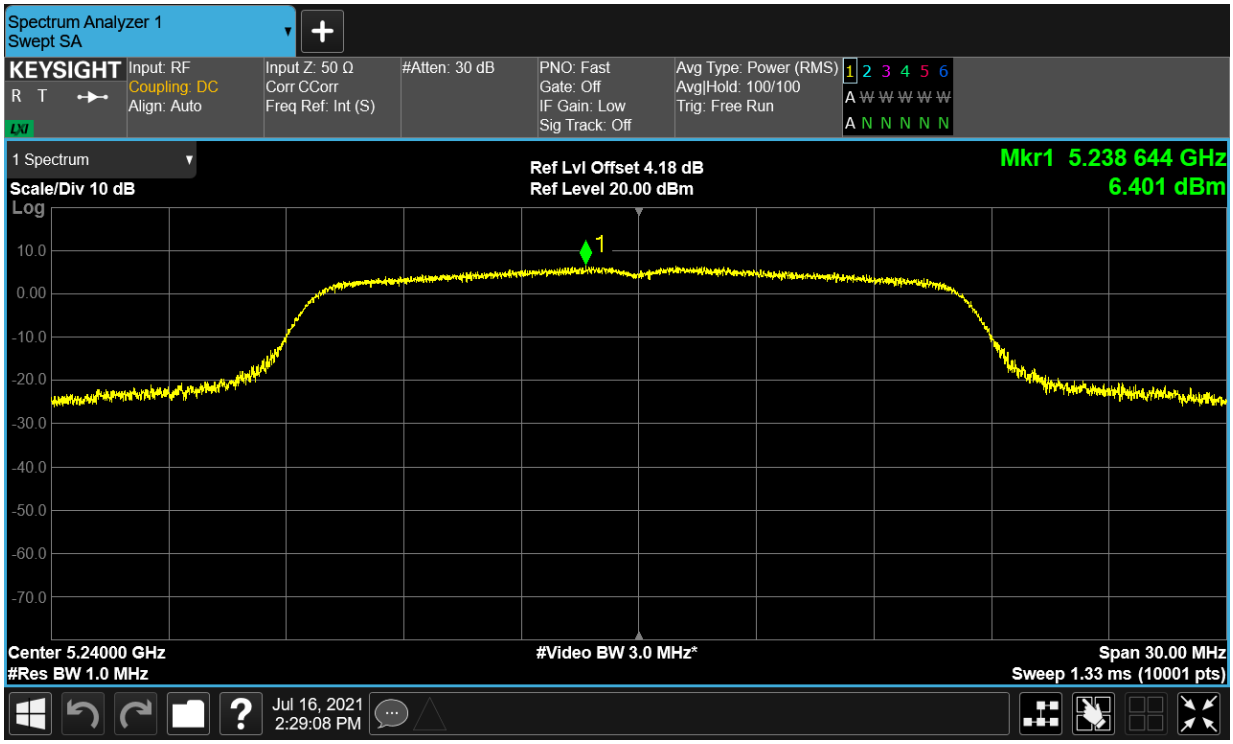
PSD NVNT a 5180MHz Ant1



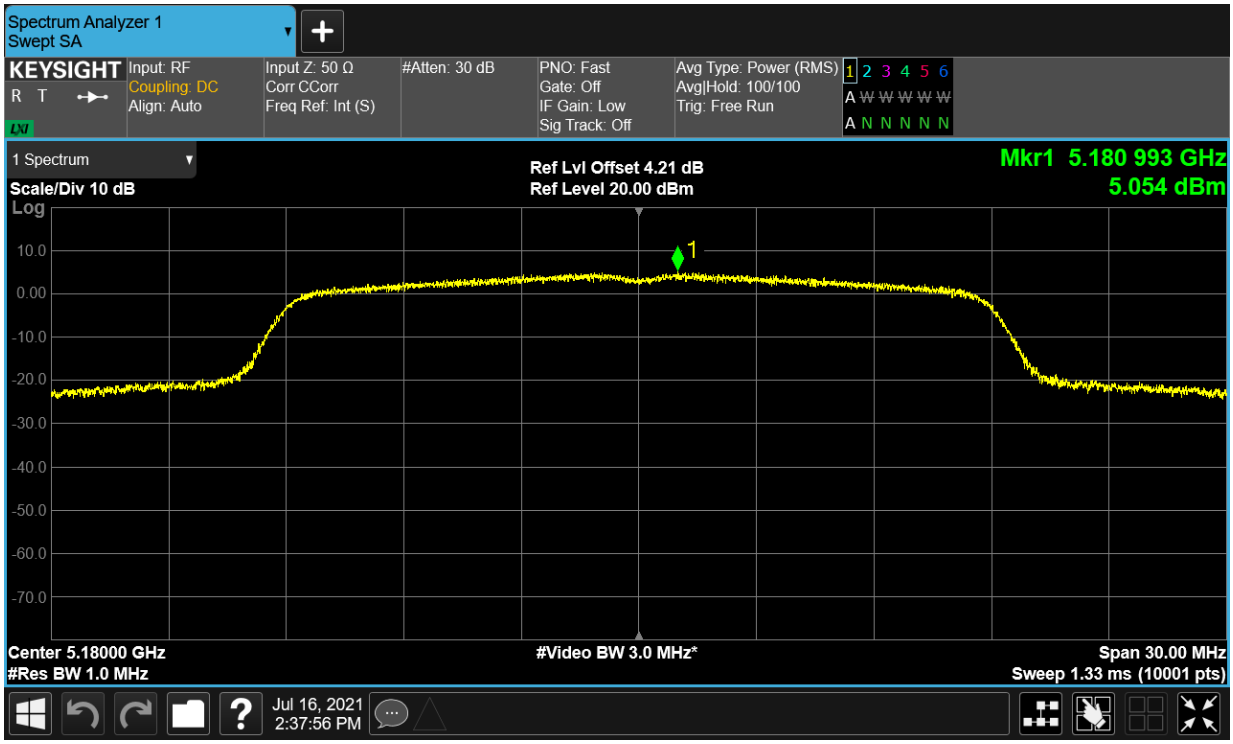
PSD NVNT a 5200MHz Ant1



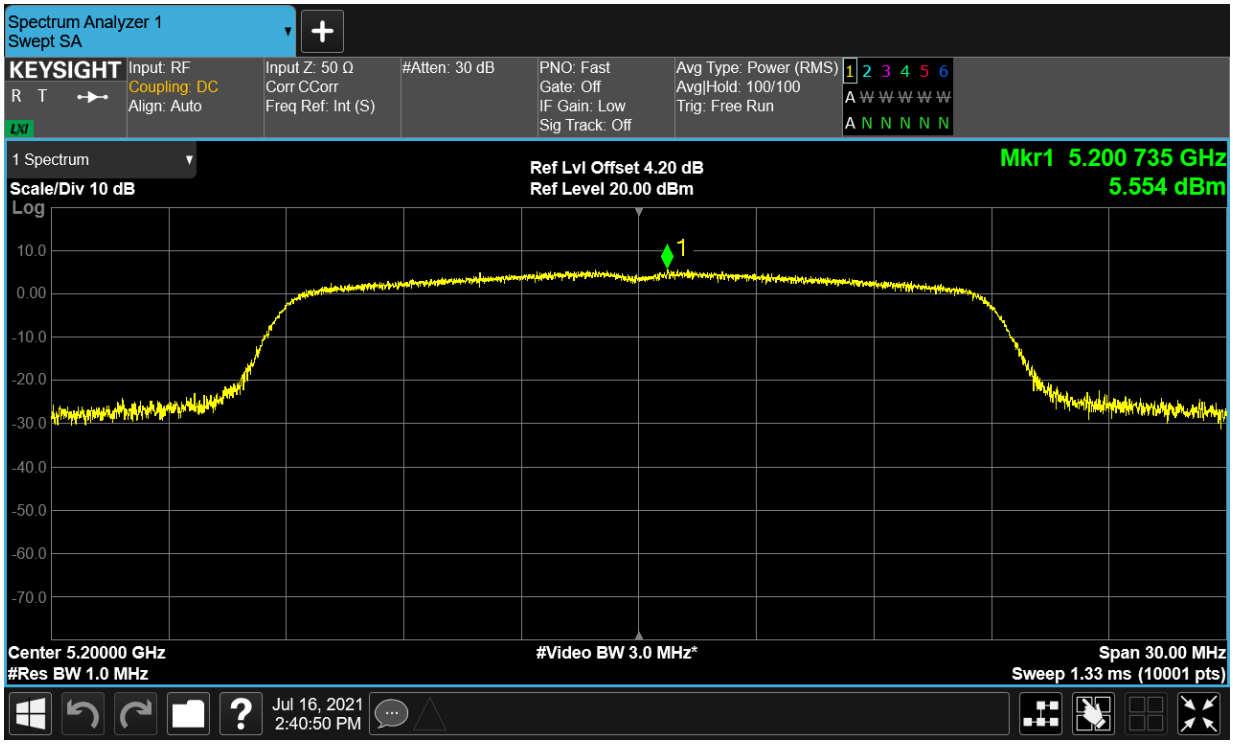
PSD NVNT a 5240MHz Ant1



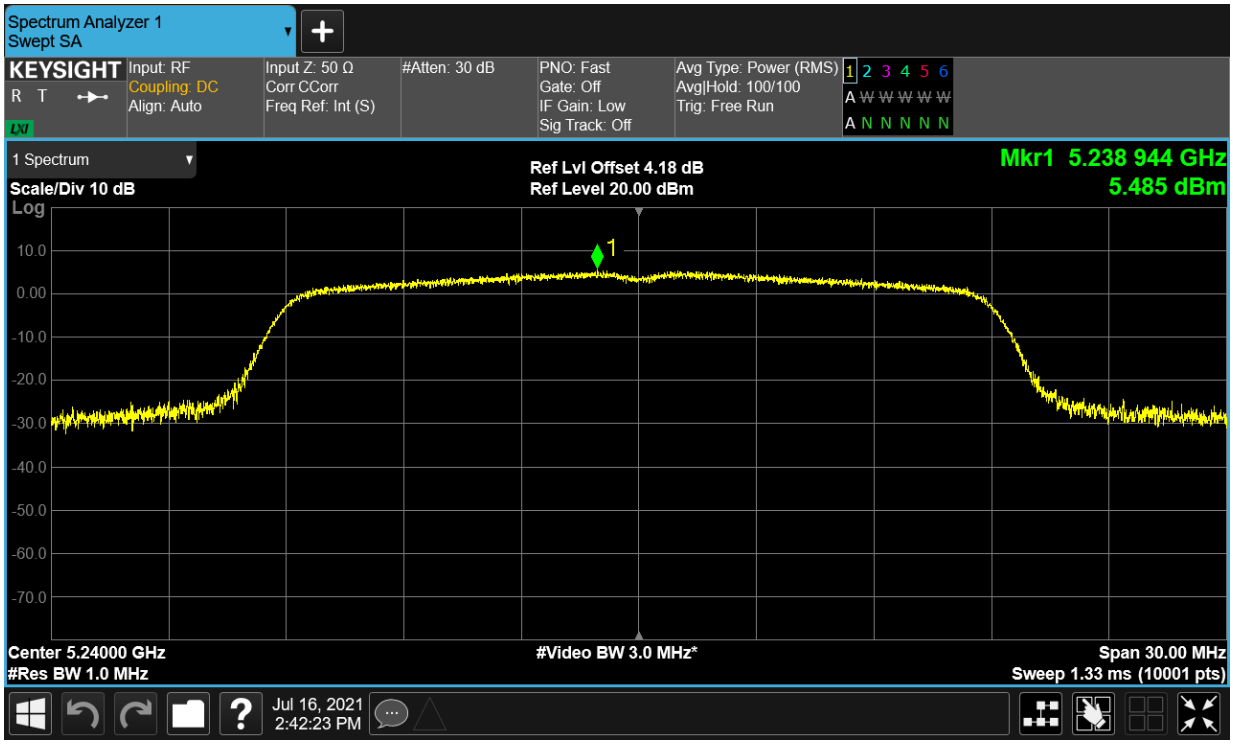
PSD NVNT ac20 5180MHz Ant1



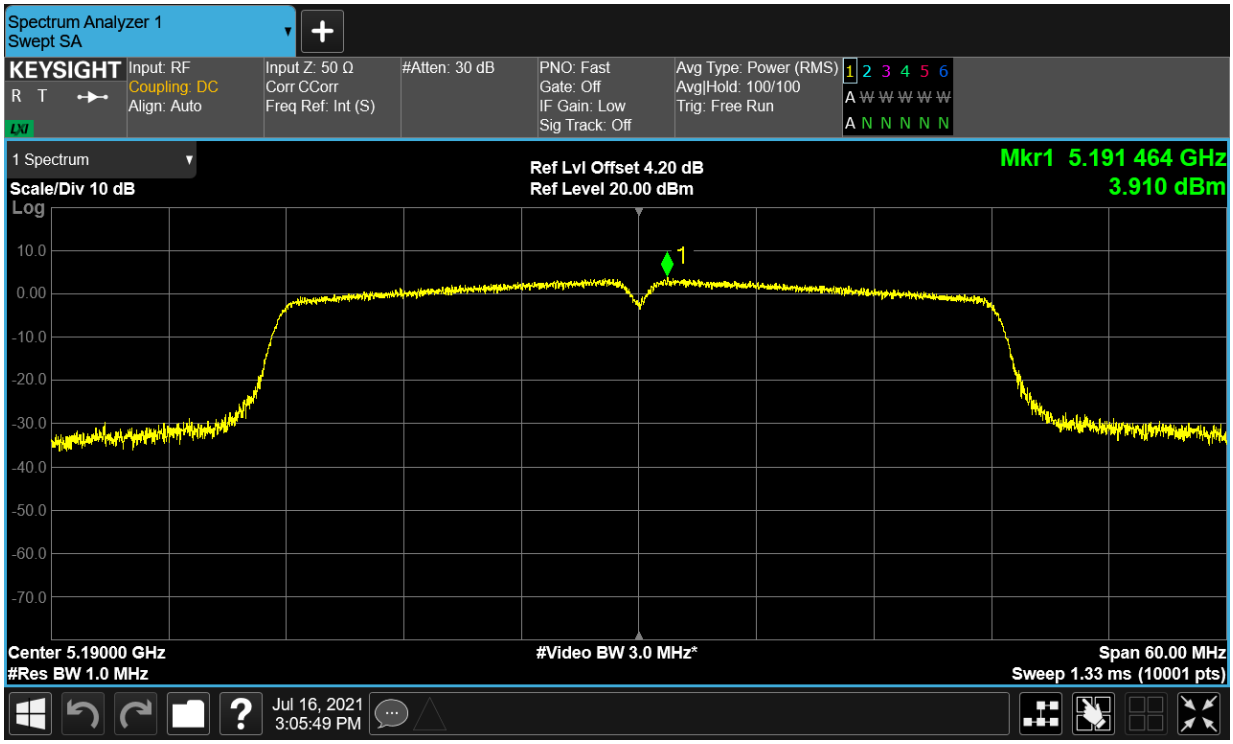
PSD NVNT ac20 5200MHz Ant1



PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



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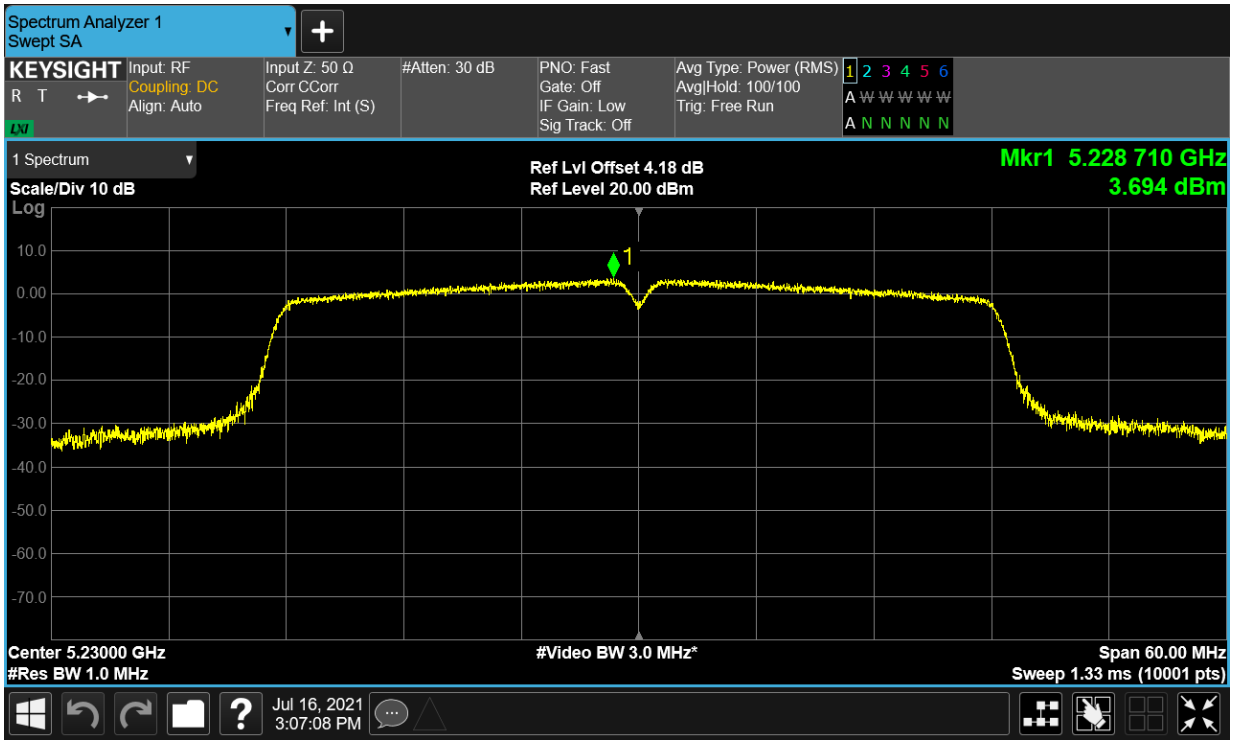

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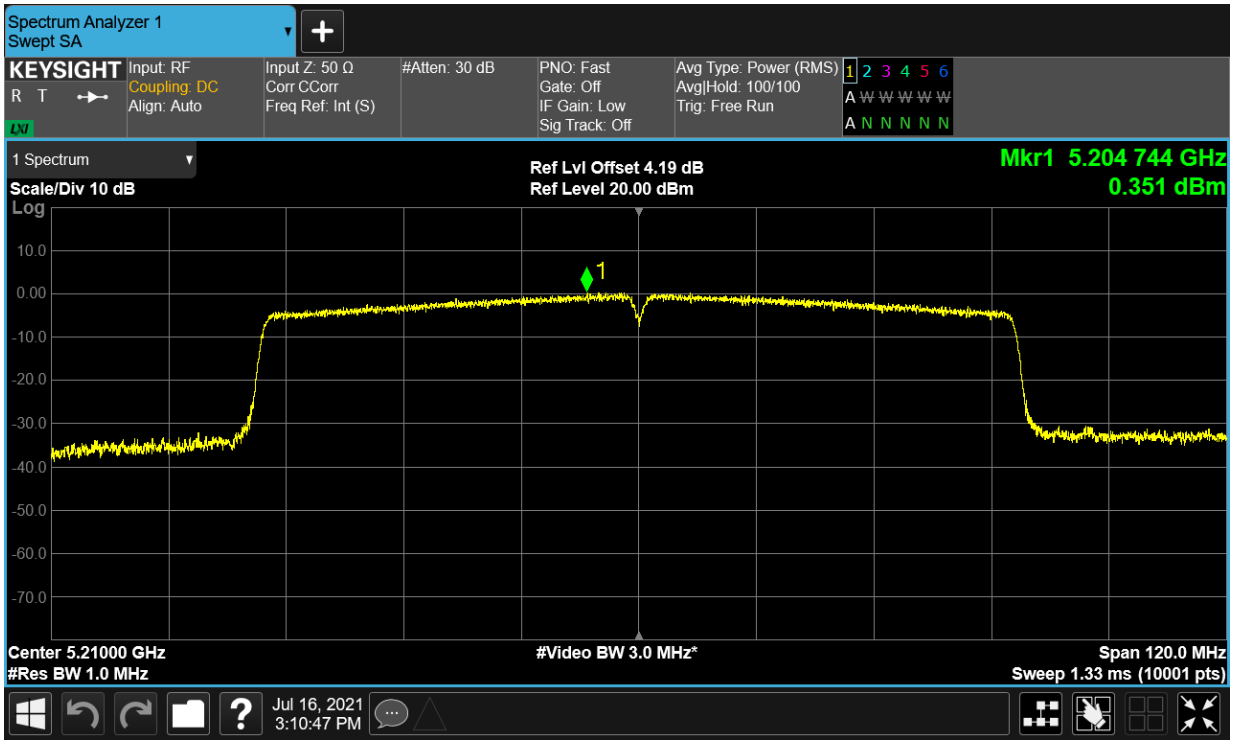
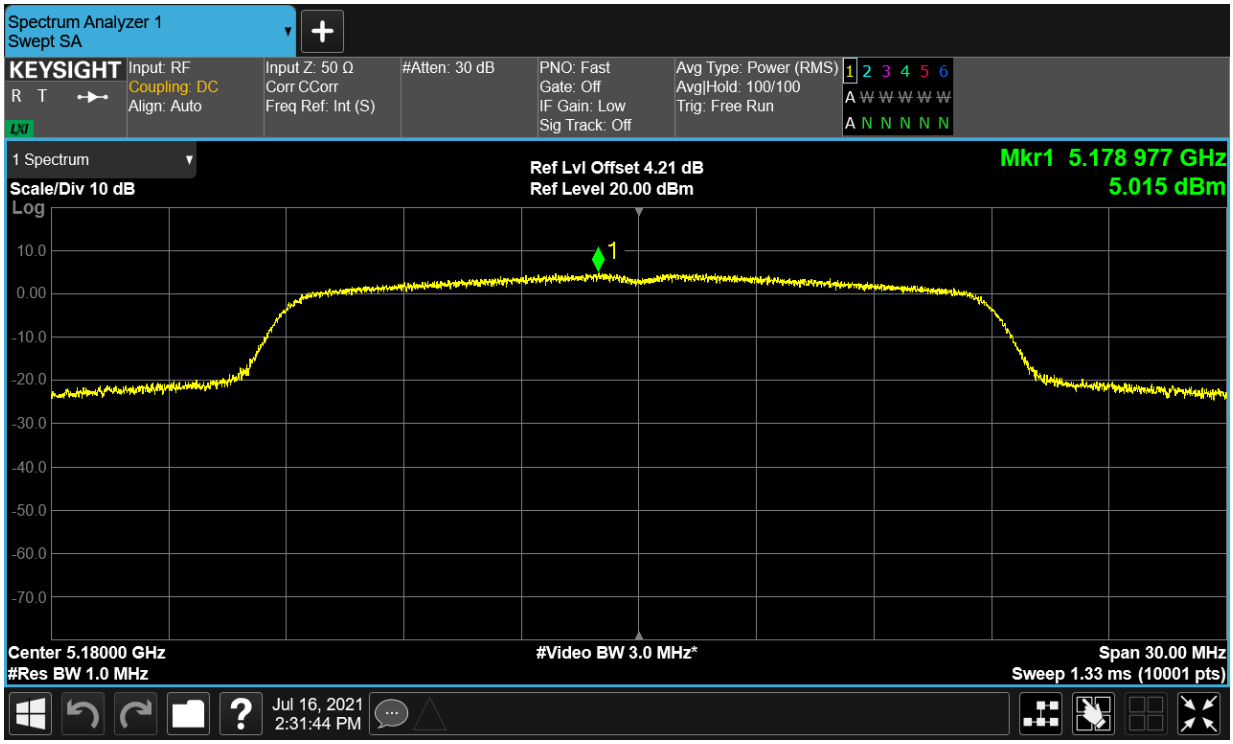
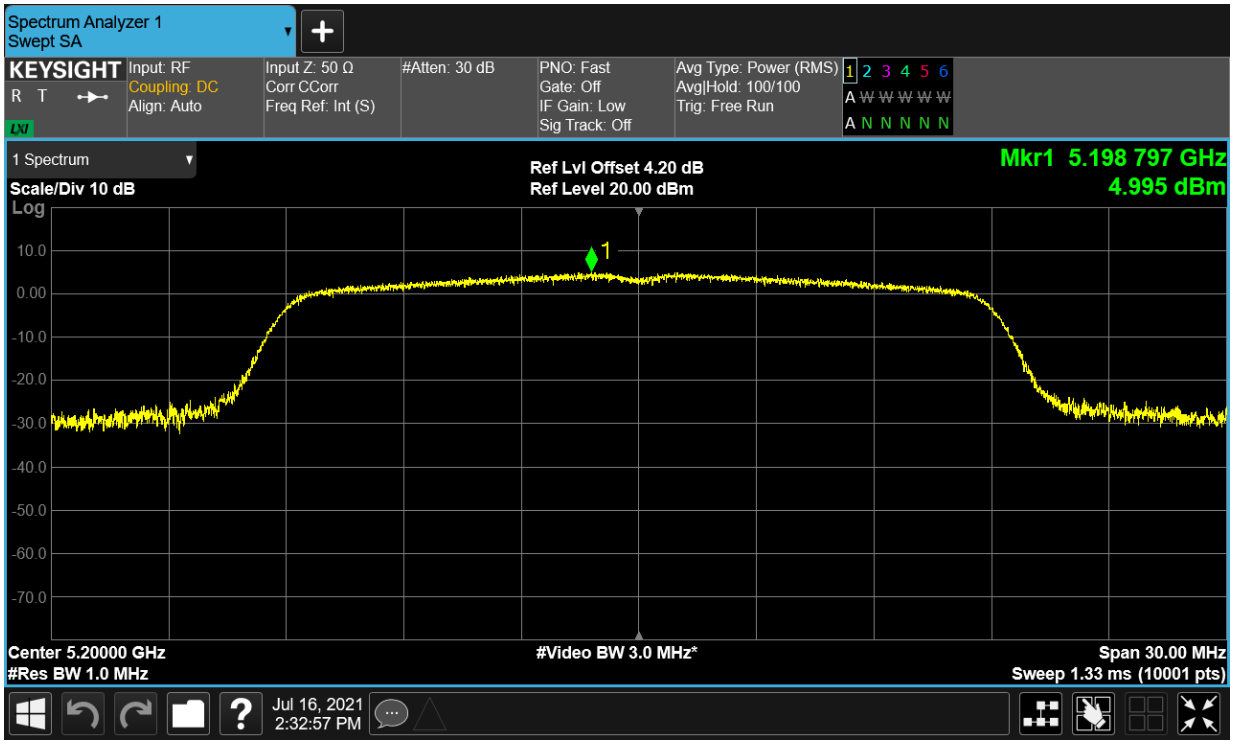


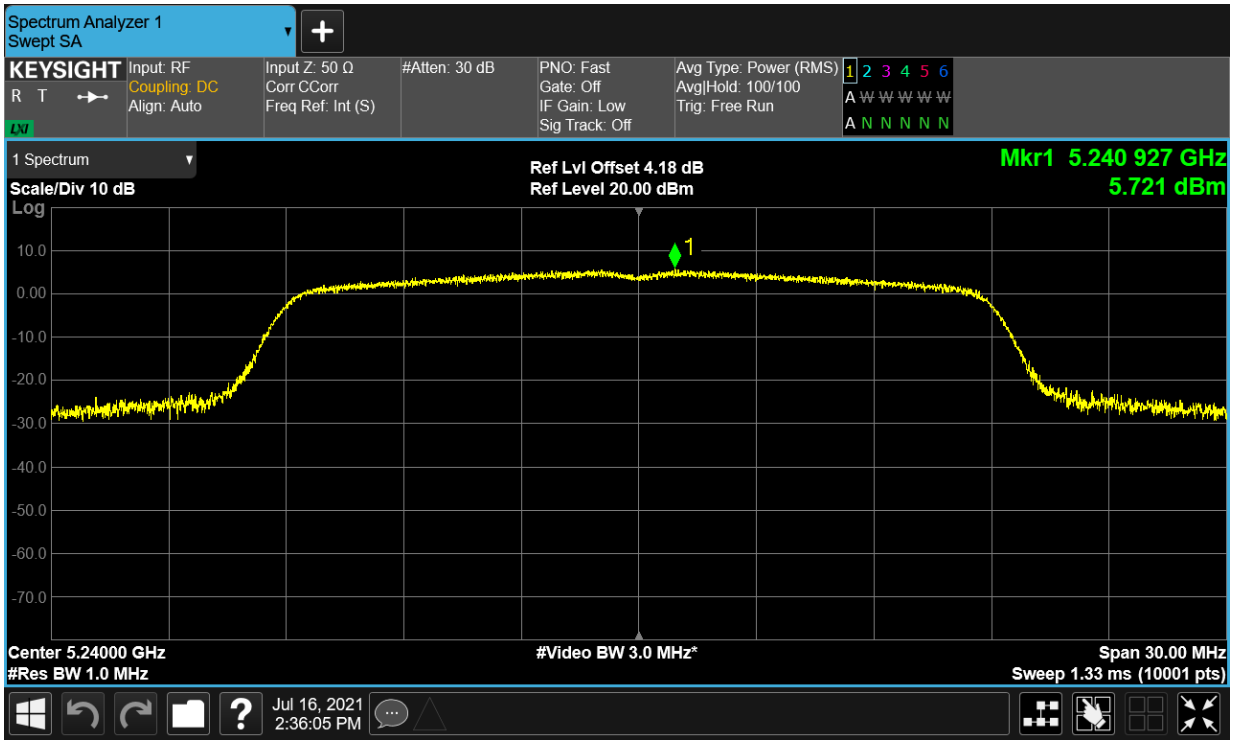
PSD NVNT n20 5180MHz Ant1



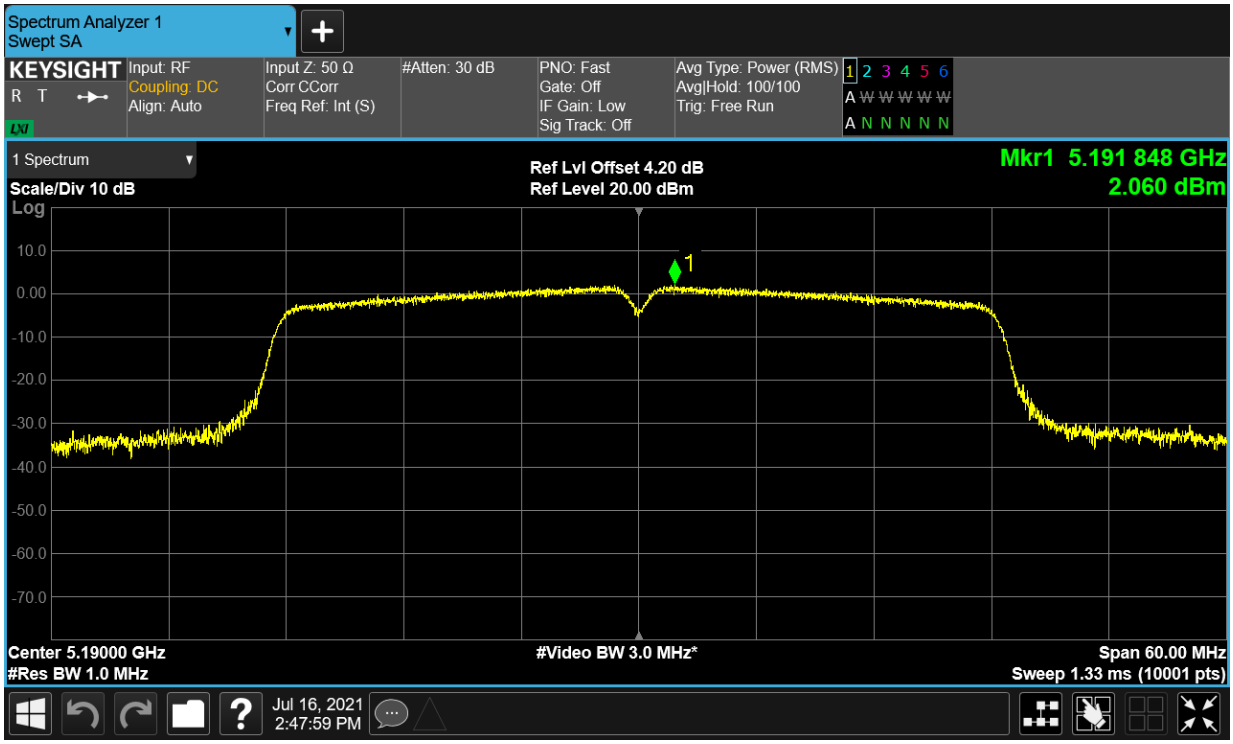
PSD NVNT n20 5200MHz Ant1



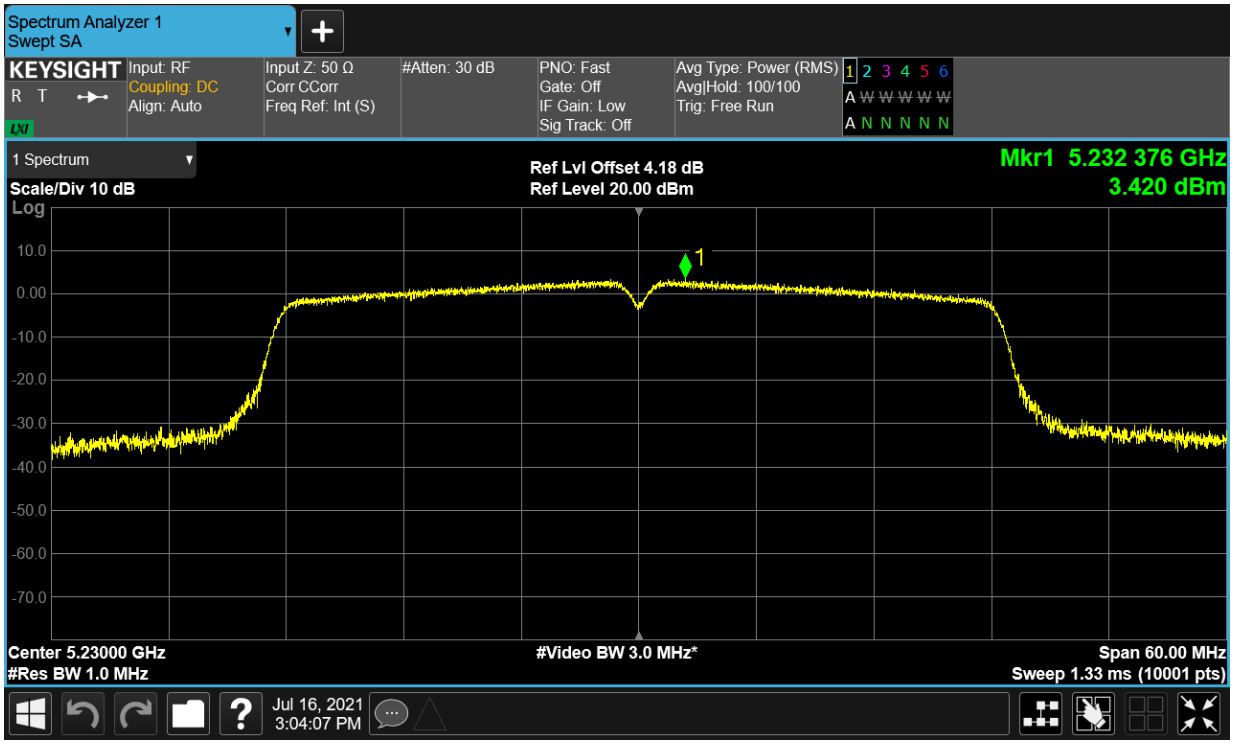
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1


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: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.18 dB
Ref Level 20.00 dBm
Mkr1 5.232 376 GHz
3.420 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.23000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Span 60.00 MHz
Sweep 1.33 ms (10001 pts)
Jul 16, 2021
3:04:07 PM