

## Test Data

### Frequency Stability(worst case mode)

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5180	Ant1	5180.0145	2.80	within the band	Pass
HVHT	a	5180	Ant2	5180.0145	2.80		Pass
HVLT	a	5180	Ant1	5180.014	2.70		Pass
HVLT	a	5180	Ant2	5180.0135	2.61		Pass
LVHT	a	5180	Ant1	5180.014	2.70		Pass
LVHT	a	5180	Ant2	5180.0145	2.80		Pass
LVLT	a	5180	Ant1	5180.014	2.70		Pass
LVLT	a	5180	Ant2	5180.0145	2.80		Pass
NVNT	a	5180	Ant1	5180.0135	2.61		Pass
NVNT	a	5180	Ant2	5180.0145	2.80		Pass

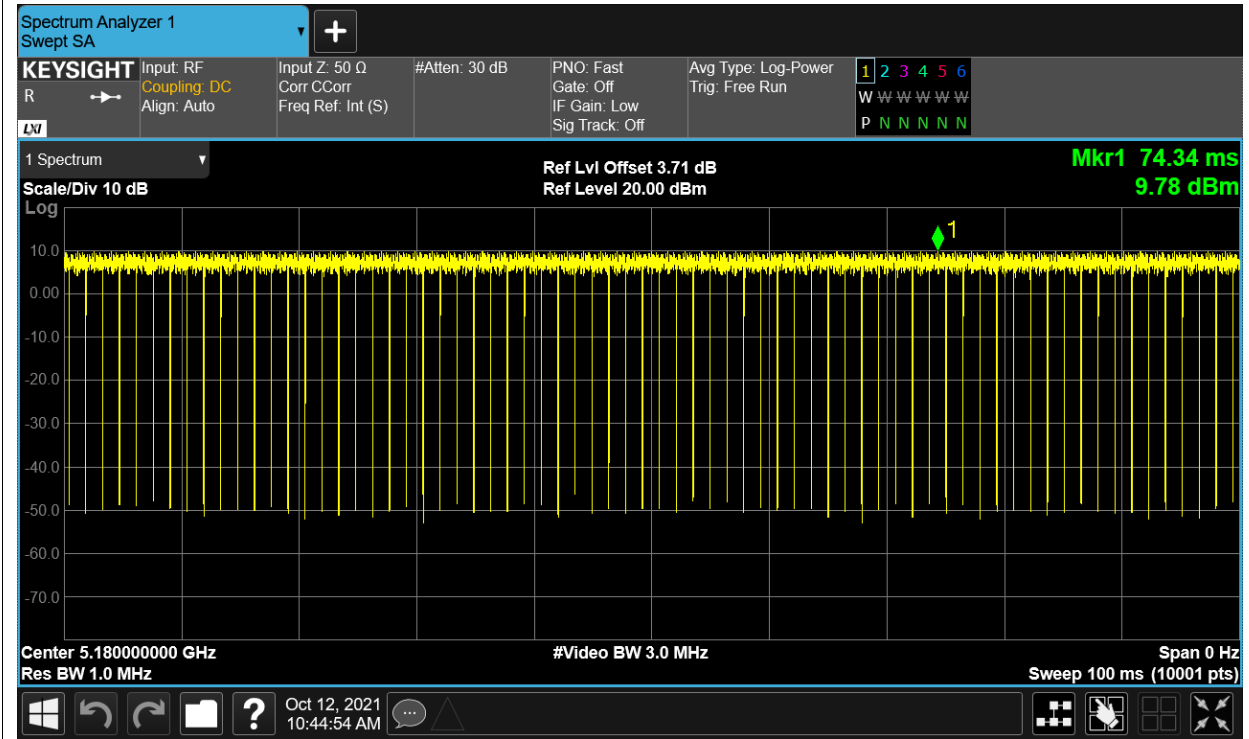
Remark: "NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage.

### Duty Cycle

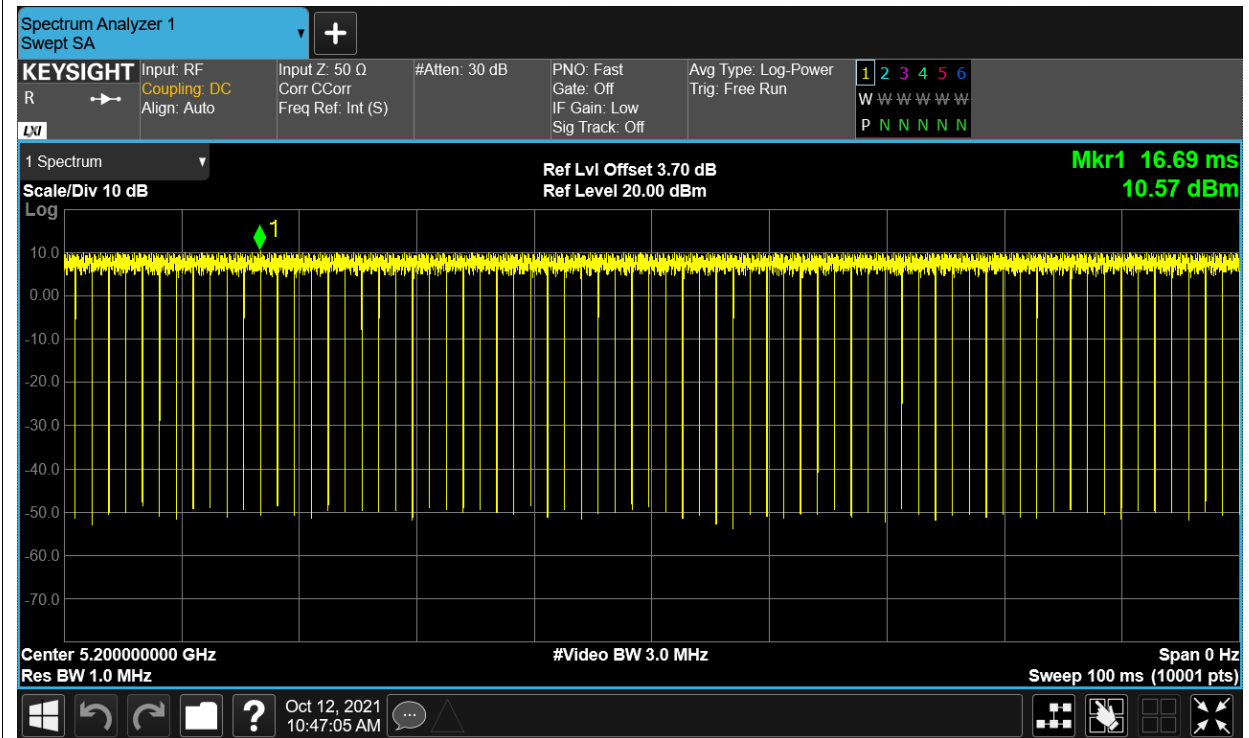
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	98.13	0.08
NVNT	a	5200	Ant1	98.12	0.08
NVNT	a	5240	Ant1	98.15	0.08
NVNT	a	5180	Ant2	98.19	0.08
NVNT	a	5200	Ant2	98.18	0.08
NVNT	a	5240	Ant2	98.18	0.08
NVNT	ac20	5180	Sum	98.03	0.09
NVNT	ac20	5200	Sum	98.02	0.09
NVNT	ac20	5240	Sum	98.03	0.09
NVNT	ac40	5190	Sum	98.74	0.06
NVNT	ac40	5230	Sum	96.15	0.17
NVNT	ac80	5210	Sum	92.67	0.33
NVNT	n20	5180	Sum	98.03	0.09
NVNT	n20	5200	Sum	98	0.09
NVNT	n20	5240	Sum	98.05	0.09
NVNT	n40	5190	Sum	96.08	0.17
NVNT	n40	5230	Sum	96.16	0.17

Test Graphs

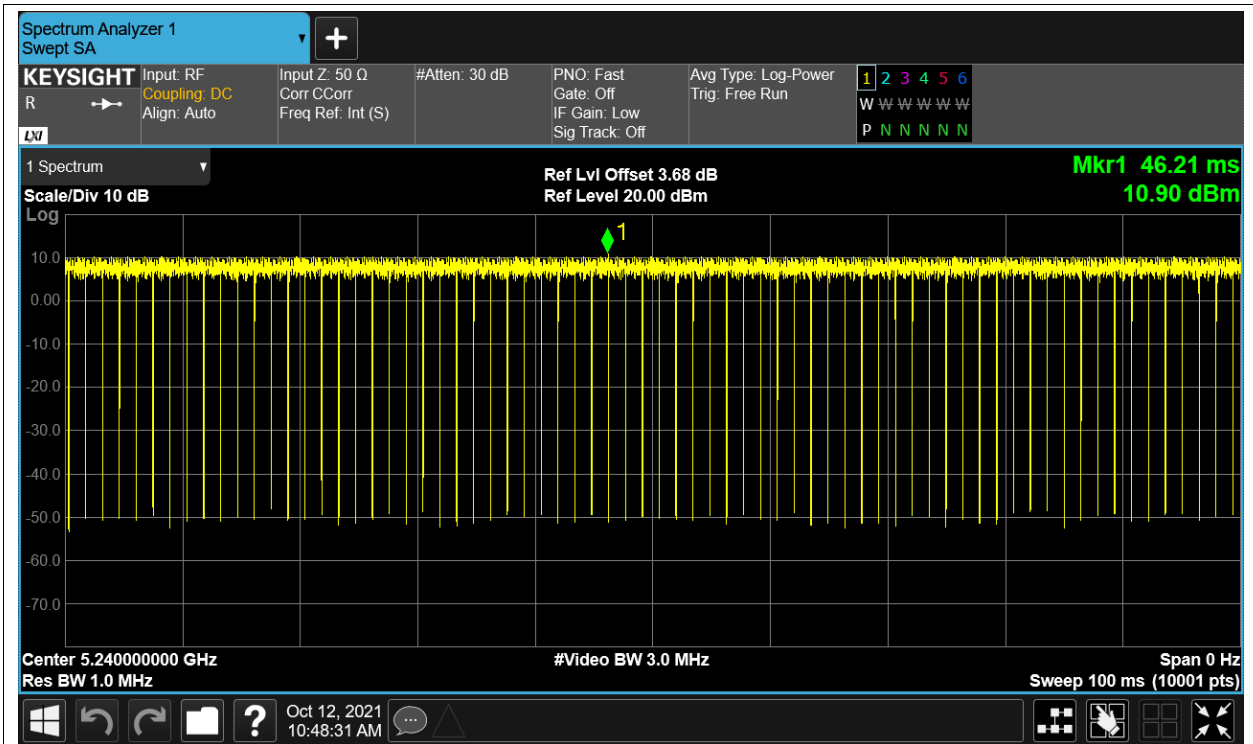
Duty Cycle NVNT a 5180MHz Ant1



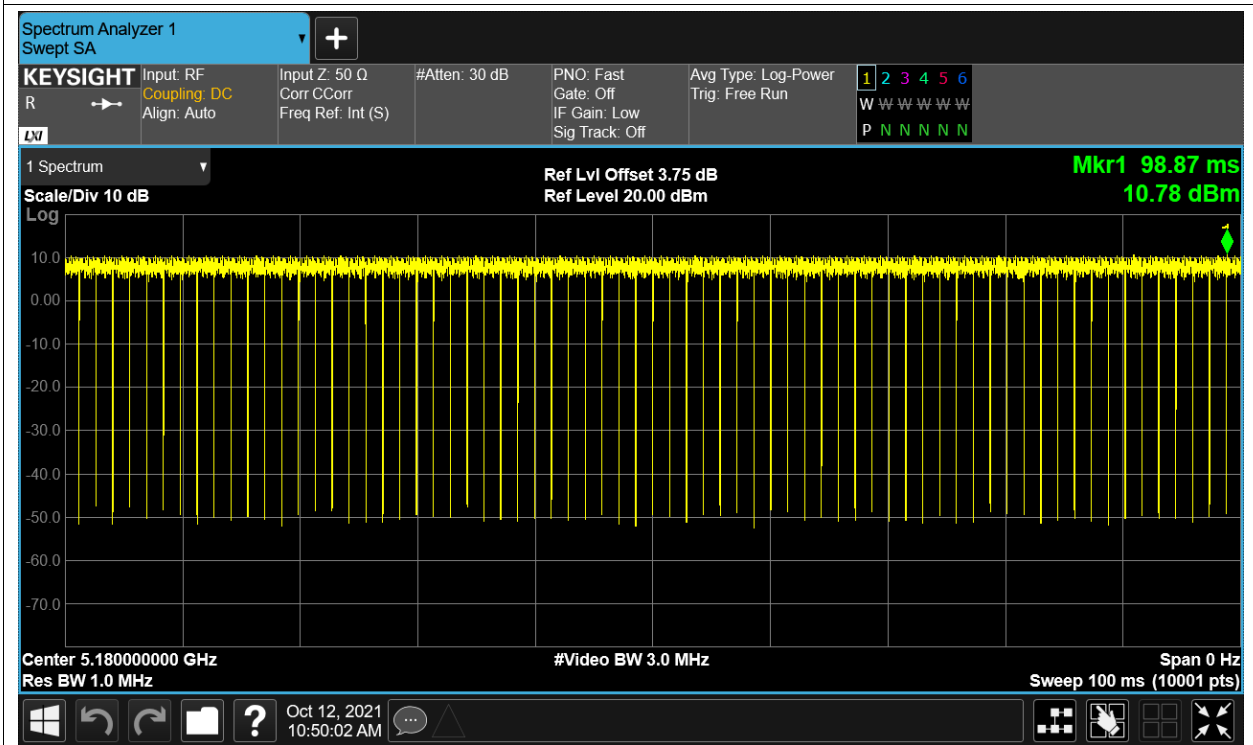
Duty Cycle NVNT a 5200MHz Ant1



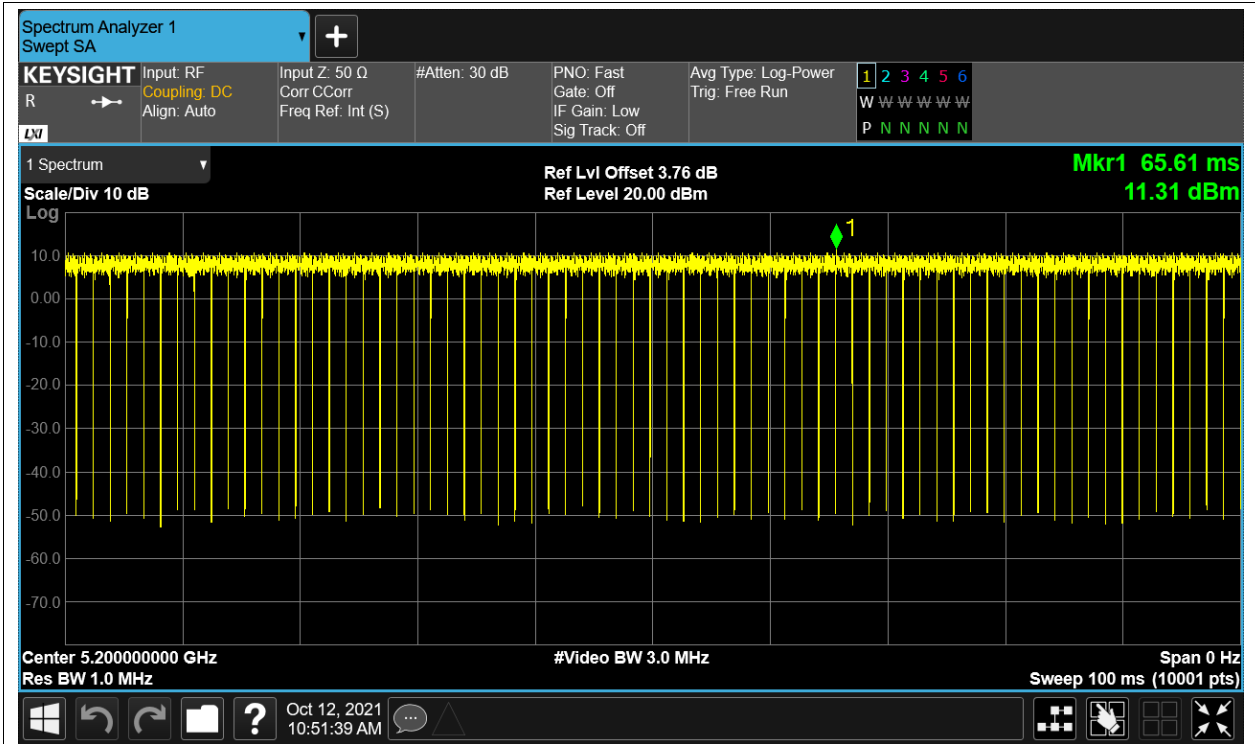
Duty Cycle NVNT a 5240MHz Ant1



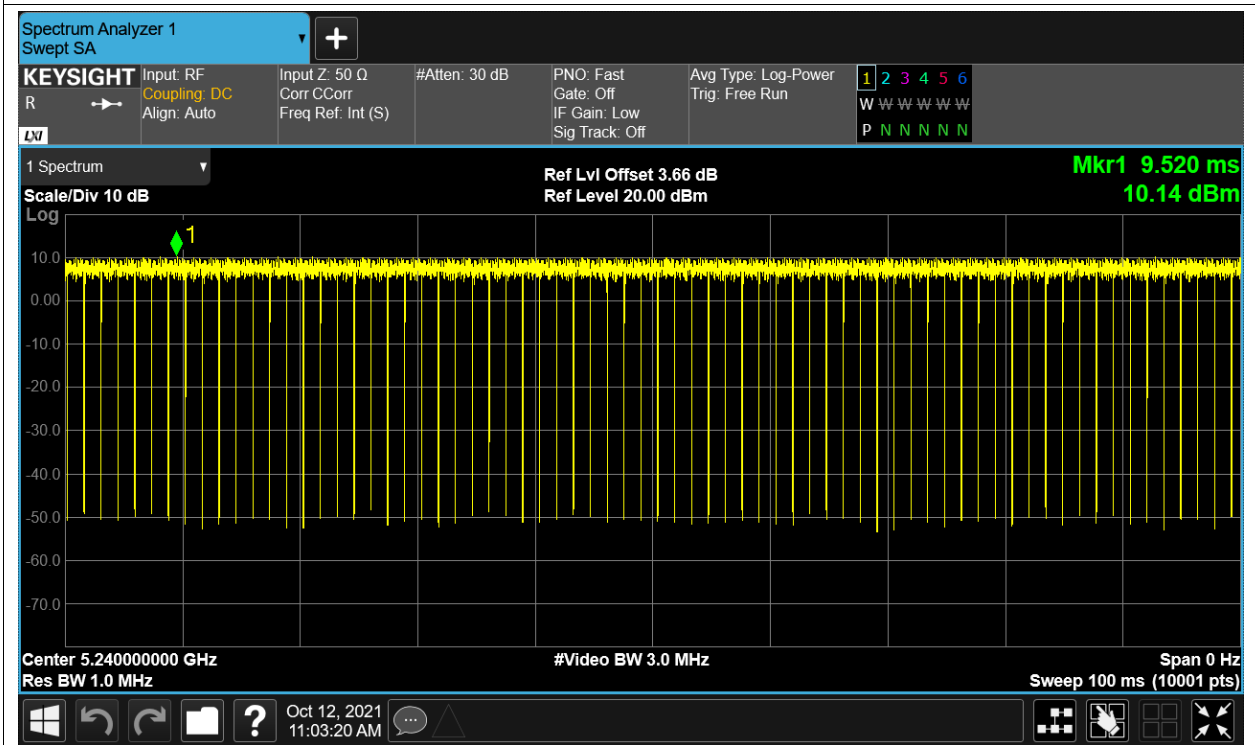
Duty Cycle NVNT a 5180MHz Ant2



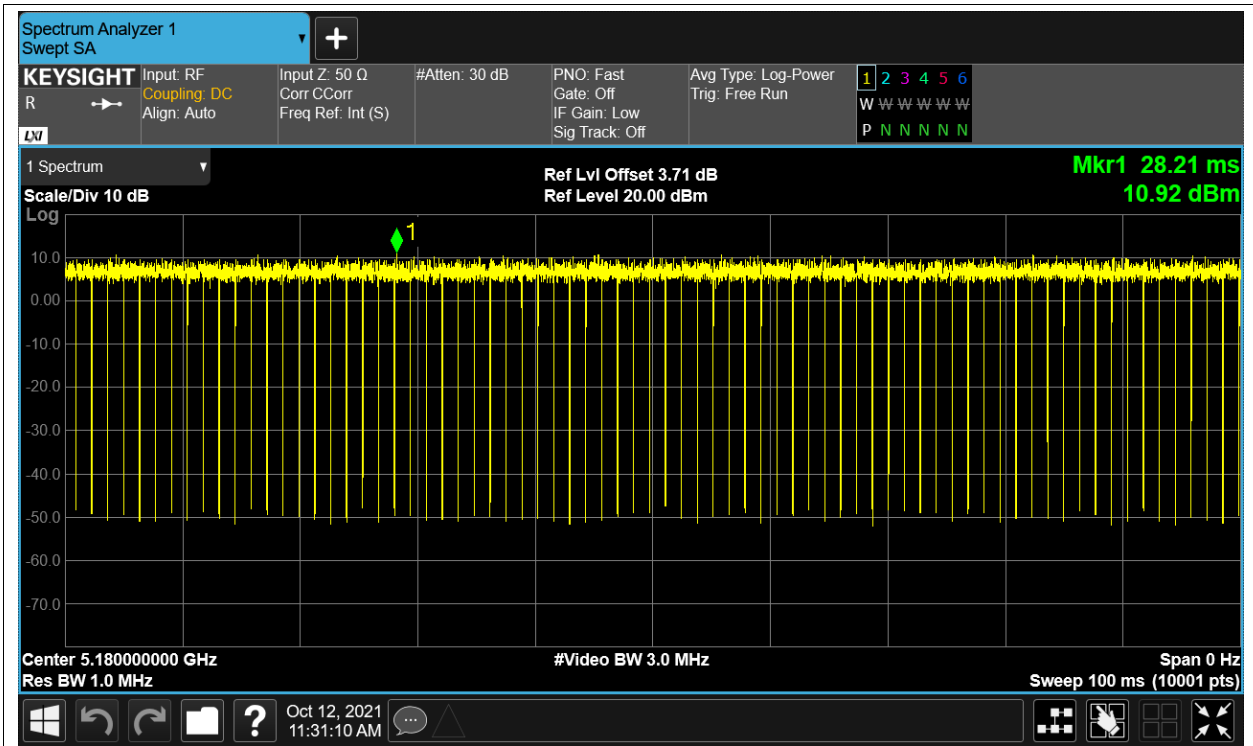
Duty Cycle NVNT a 5200MHz Ant2



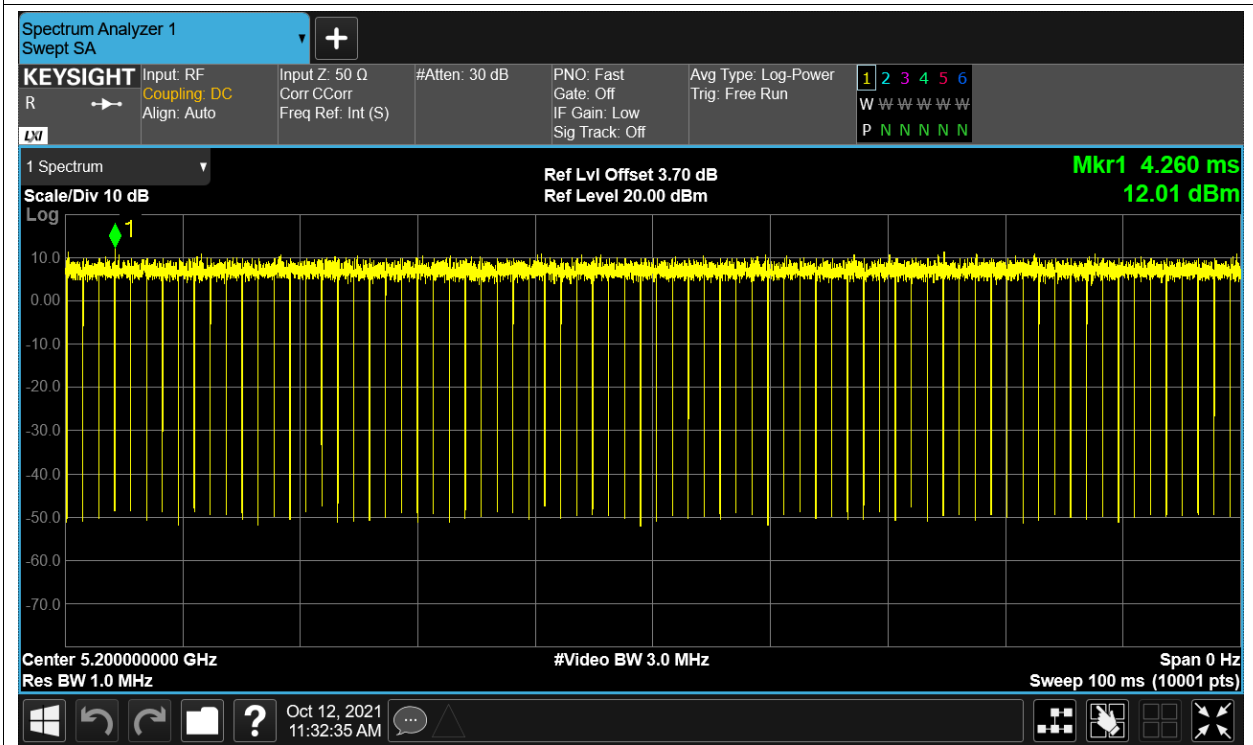
Duty Cycle NVNT a 5240MHz Ant2



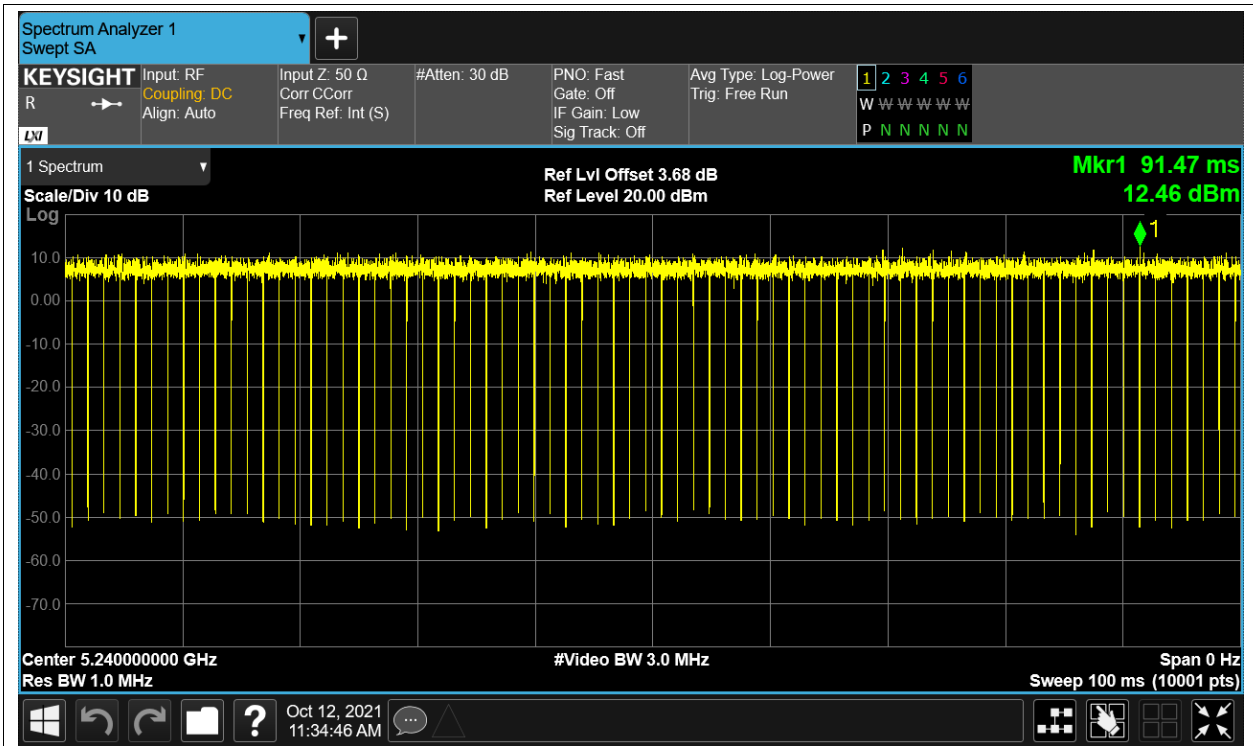
Duty Cycle NVNT ac20 5180MHz Sum



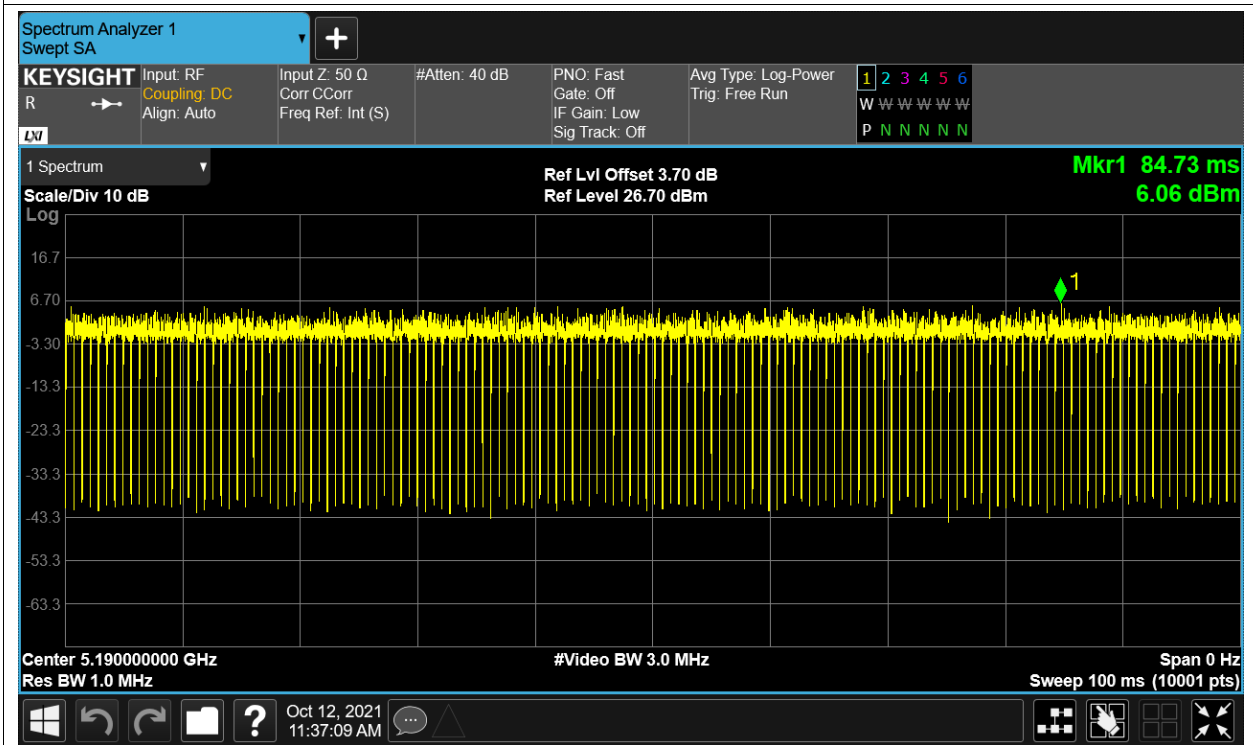
Duty Cycle NVNT ac20 5200MHz Sum



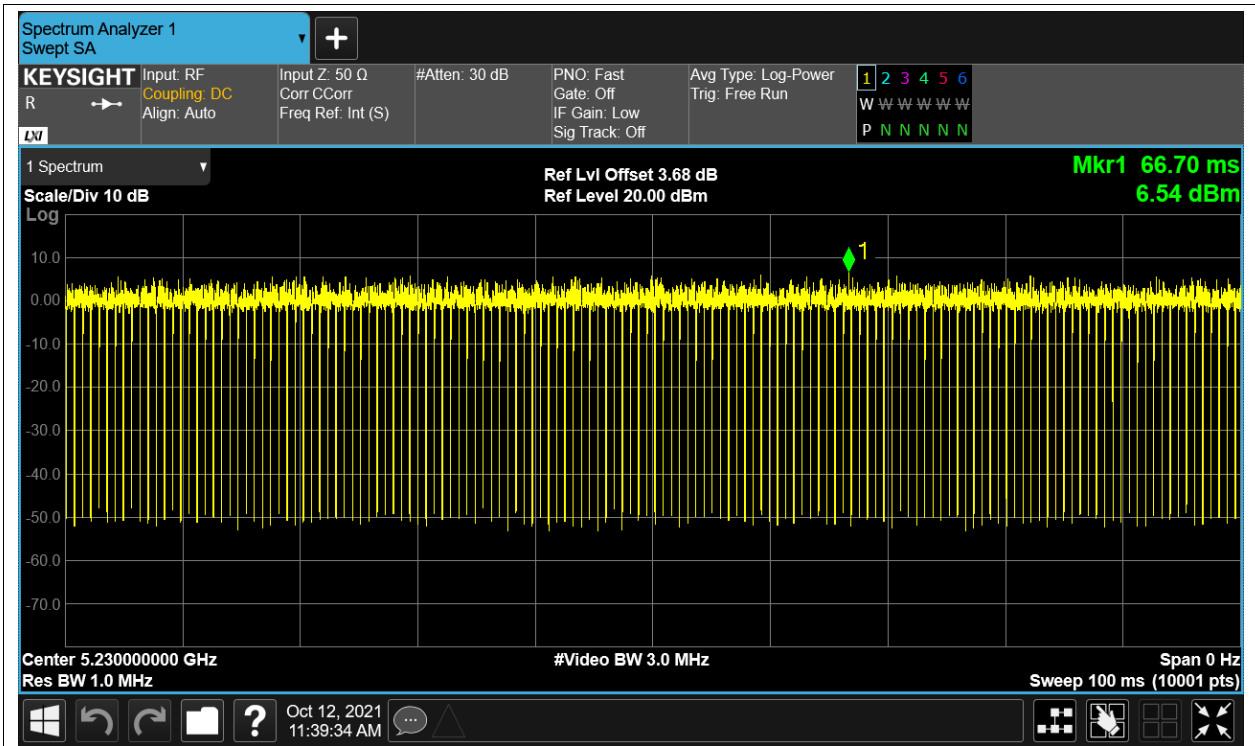
Duty Cycle NVNT ac20 5240MHz Sum



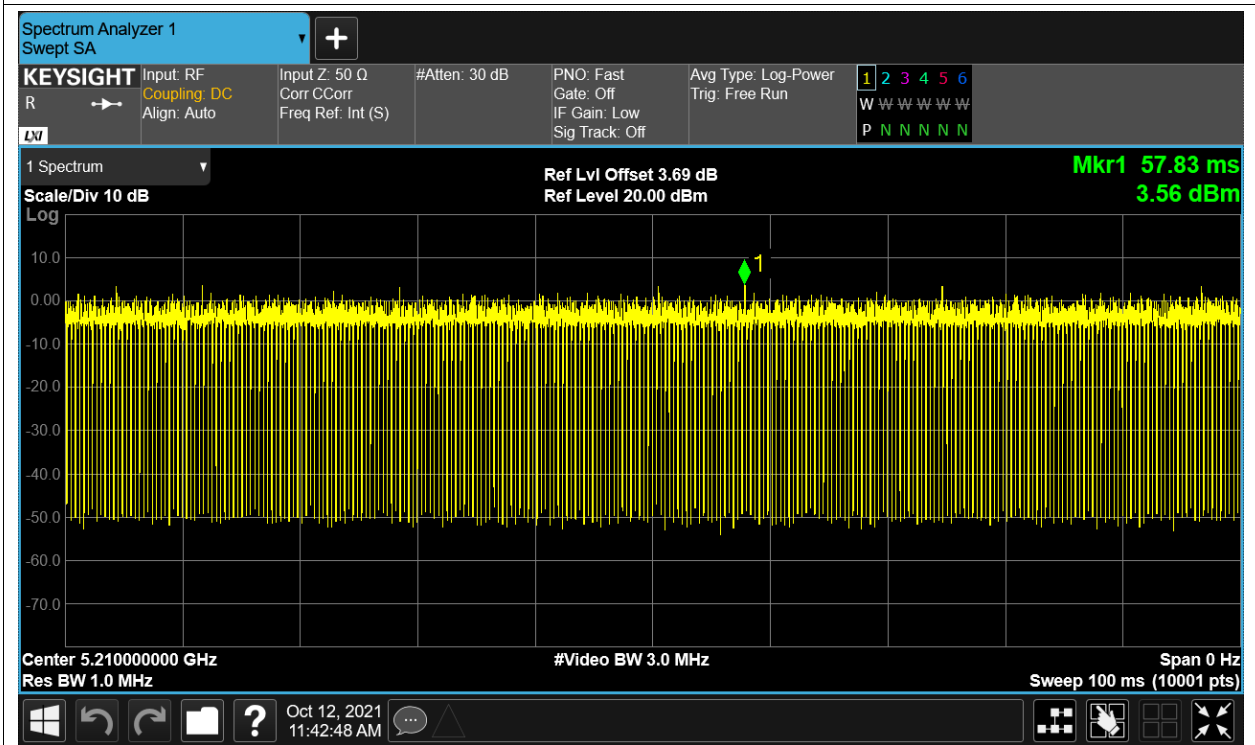
Duty Cycle NVNT ac40 5190MHz Sum



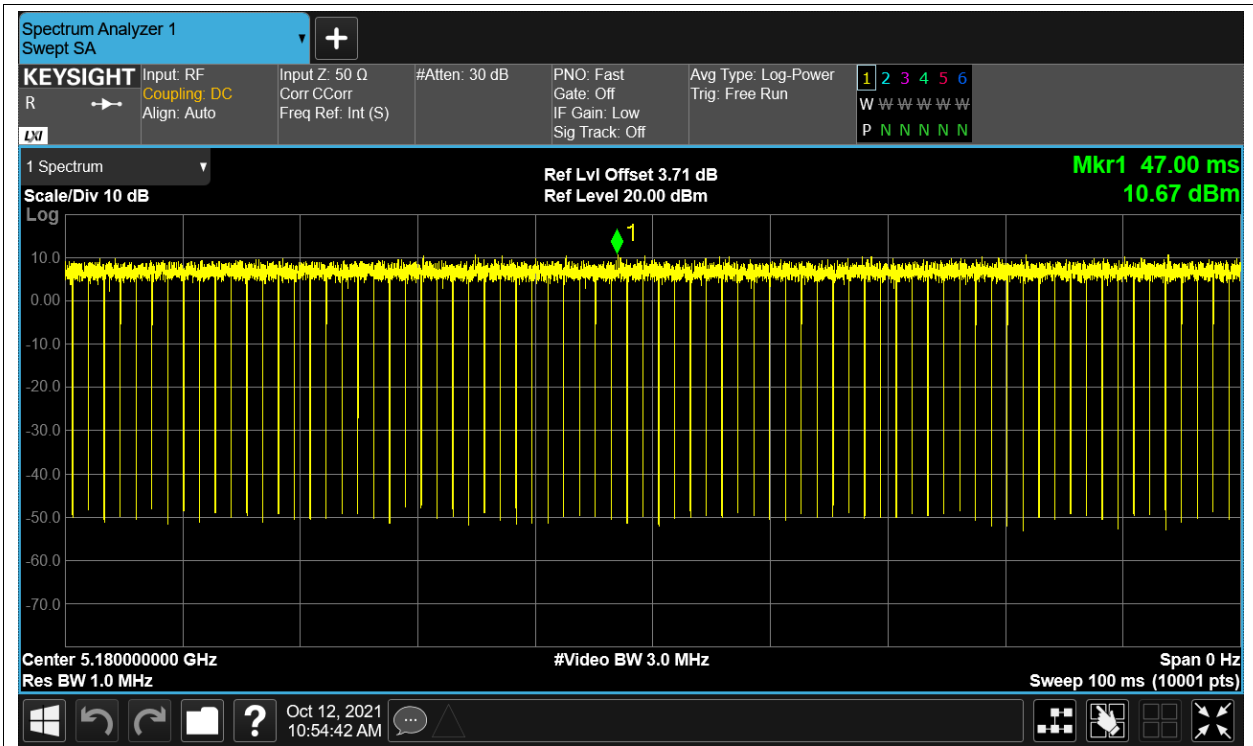
Duty Cycle NVNT ac40 5230MHz Sum



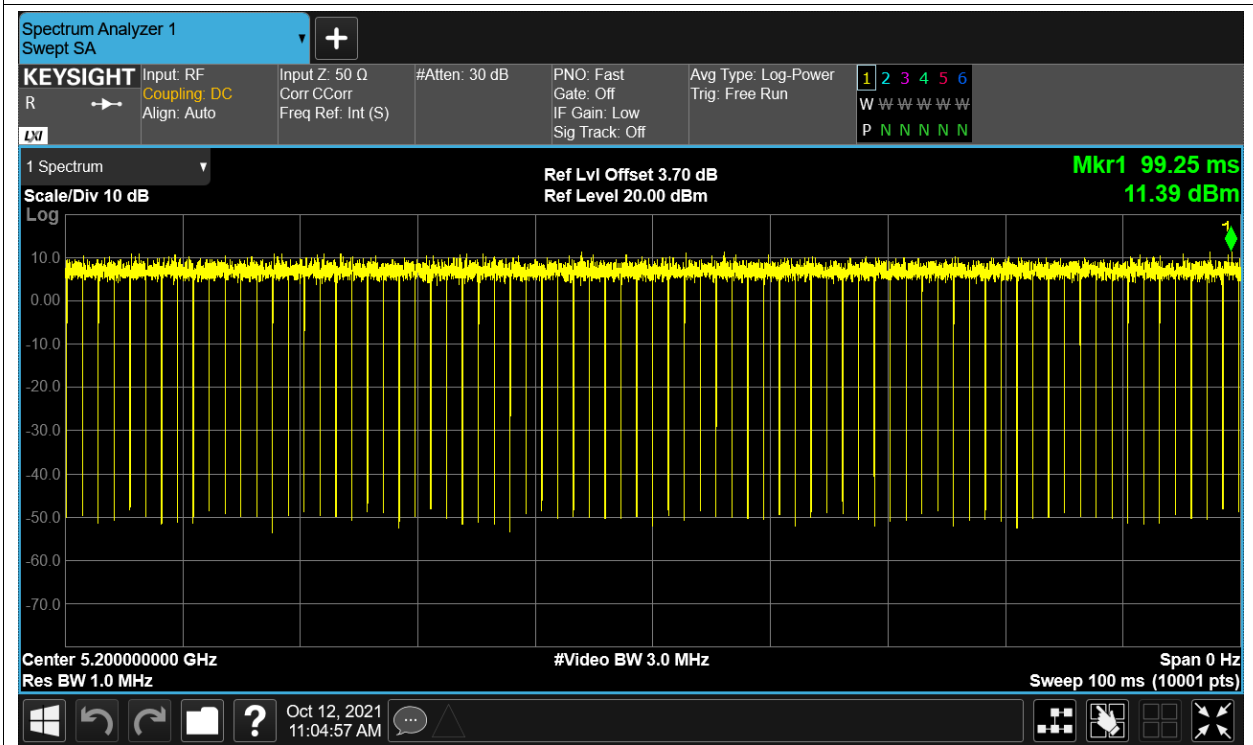
Duty Cycle NVNT ac80 5210MHz Sum



Duty Cycle NVNT n20 5180MHz Sum

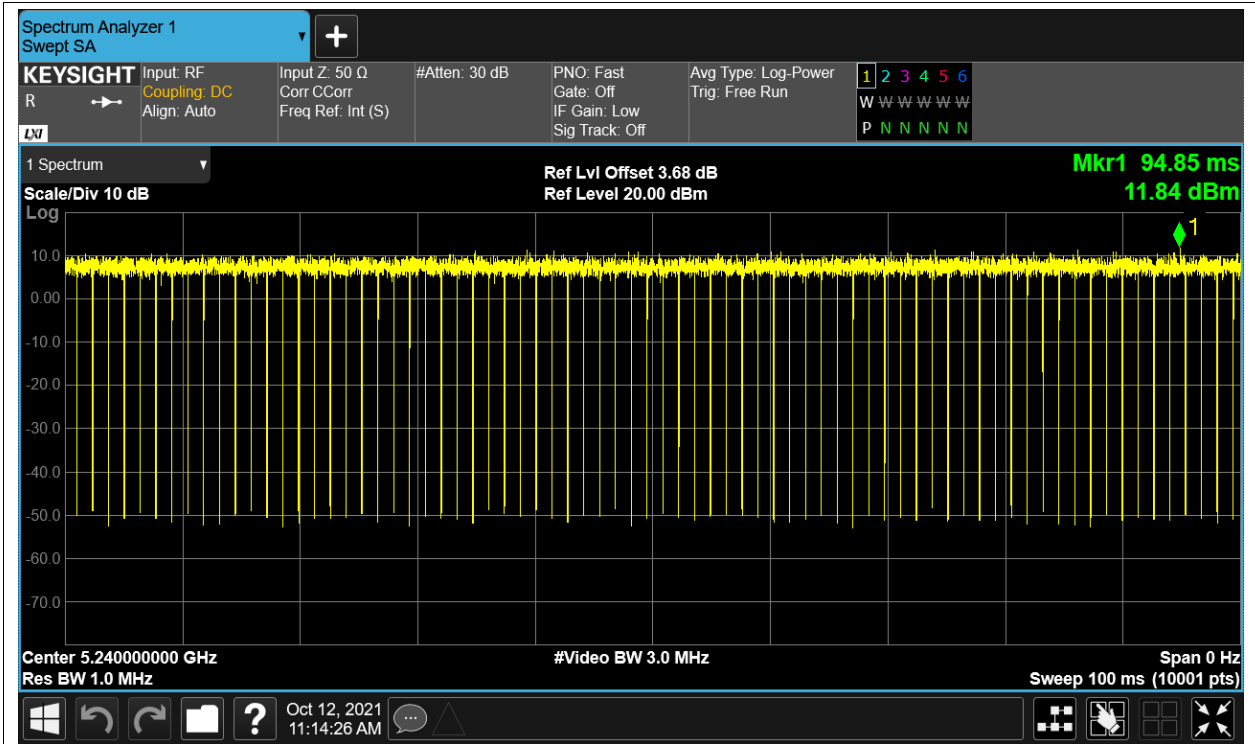


Duty Cycle NVNT n20 5200MHz Sum

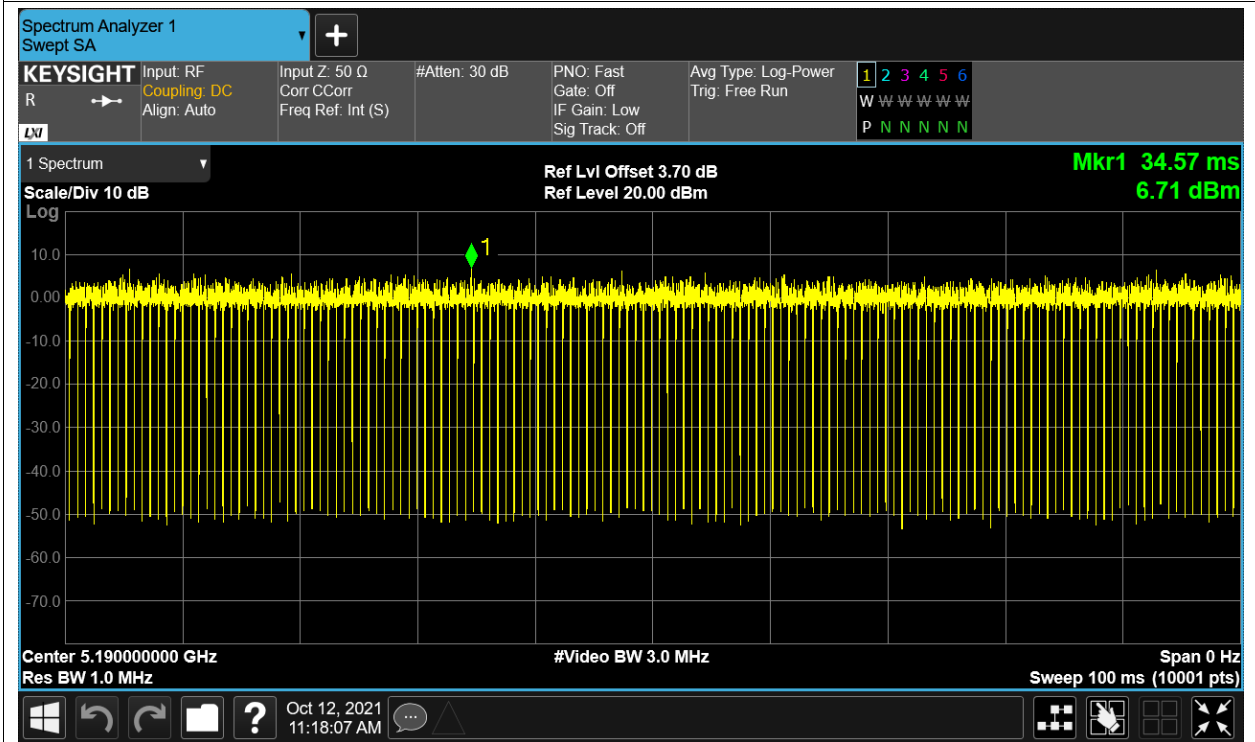


Duty Cycle NVNT n20 5240MHz Sum

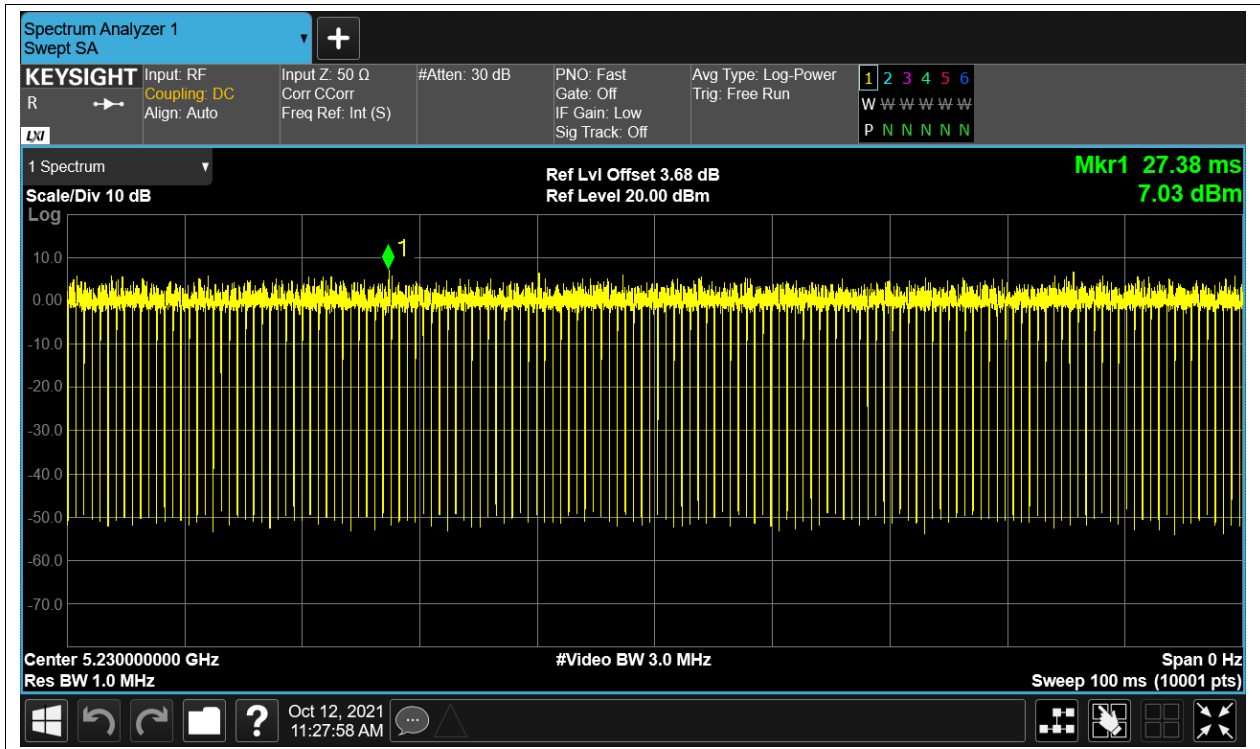




Duty Cycle NVNT n40 5190MHz Sum



Duty Cycle NVNT n40 5230MHz Sum



## 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	14.86	0.08	14.94	24	Pass
NVNT	a	5200	Ant1	15.51	0.08	15.59	24	Pass
NVNT	a	5240	Ant1	15.45	0.08	15.53	24	Pass
NVNT	a	5180	Ant2	15.55	0.08	15.63	24	Pass
NVNT	a	5200	Ant2	15.47	0.08	15.55	24	Pass
NVNT	a	5240	Ant2	14.85	0.08	14.93	24	Pass
NVNT	ac20	5180	Ant1	14.65	0.09	14.74	24	Pass
NVNT	ac20	5180	Ant2	15.88	0.09	15.97	24	Pass
NVNT	ac20	5180	Sum	18.319	0.09	18.409	24	Pass
NVNT	ac20	5200	Ant1	15.29	0.09	15.38	24	Pass
NVNT	ac20	5200	Ant2	15.57	0.09	15.66	24	Pass
NVNT	ac20	5200	Sum	18.443	0.09	18.533	24	Pass
NVNT	ac20	5240	Ant1	15.35	0.09	15.44	24	Pass
NVNT	ac20	5240	Ant2	14.86	0.09	14.95	24	Pass
NVNT	ac20	5240	Sum	18.122	0.09	18.212	24	Pass
NVNT	ac40	5190	Ant1	14.68	0.06	14.74	24	Pass
NVNT	ac40	5190	Ant2	14.63	0.06	14.69	24	Pass
NVNT	ac40	5190	Sum	17.665	0.06	17.725	24	Pass
NVNT	ac40	5230	Ant1	15.01	0.17	15.18	24	Pass
NVNT	ac40	5230	Ant2	14.02	0.17	14.19	24	Pass
NVNT	ac40	5230	Sum	17.553	0.17	17.723	24	Pass
NVNT	ac80	5210	Ant1	14.29	0.33	14.62	24	Pass
NVNT	ac80	5210	Ant2	14.29	0.33	14.62	24	Pass
NVNT	ac80	5210	Sum	17.3	0.33	17.63	24	Pass
NVNT	n20	5180	Ant1	14.73	0.09	14.82	24	Pass
NVNT	n20	5180	Ant2	15.74	0.09	15.83	24	Pass
NVNT	n20	5180	Sum	18.275	0.09	18.365	24	Pass
NVNT	n20	5200	Ant1	15.32	0.09	15.41	24	Pass
NVNT	n20	5200	Ant2	15.54	0.09	15.63	24	Pass
NVNT	n20	5200	Sum	18.442	0.09	18.532	24	Pass
NVNT	n20	5240	Ant1	15.36	0.09	15.45	24	Pass
NVNT	n20	5240	Ant2	15.01	0.09	15.1	24	Pass
NVNT	n20	5240	Sum	18.199	0.09	18.289	24	Pass
NVNT	n40	5190	Ant1	14.84	0.17	15.01	24	Pass
NVNT	n40	5190	Ant2	14.72	0.17	14.89	24	Pass
NVNT	n40	5190	Sum	17.791	0.17	17.961	24	Pass
NVNT	n40	5230	Ant1	15.01	0.17	15.18	24	Pass
NVNT	n40	5230	Ant2	13.96	0.17	14.13	24	Pass

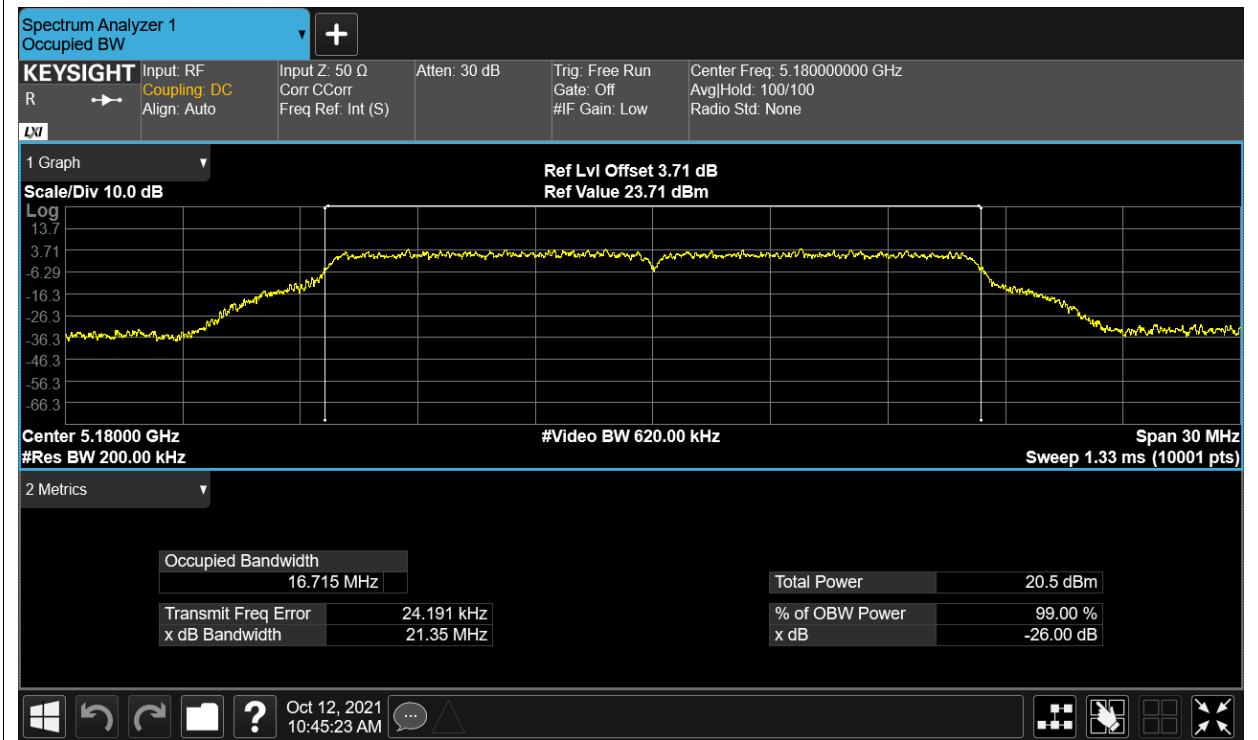
NVNT	n40	5230	Sum	17.527	0.17	17.697	24	Pass
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## Occupied Channel Bandwidth

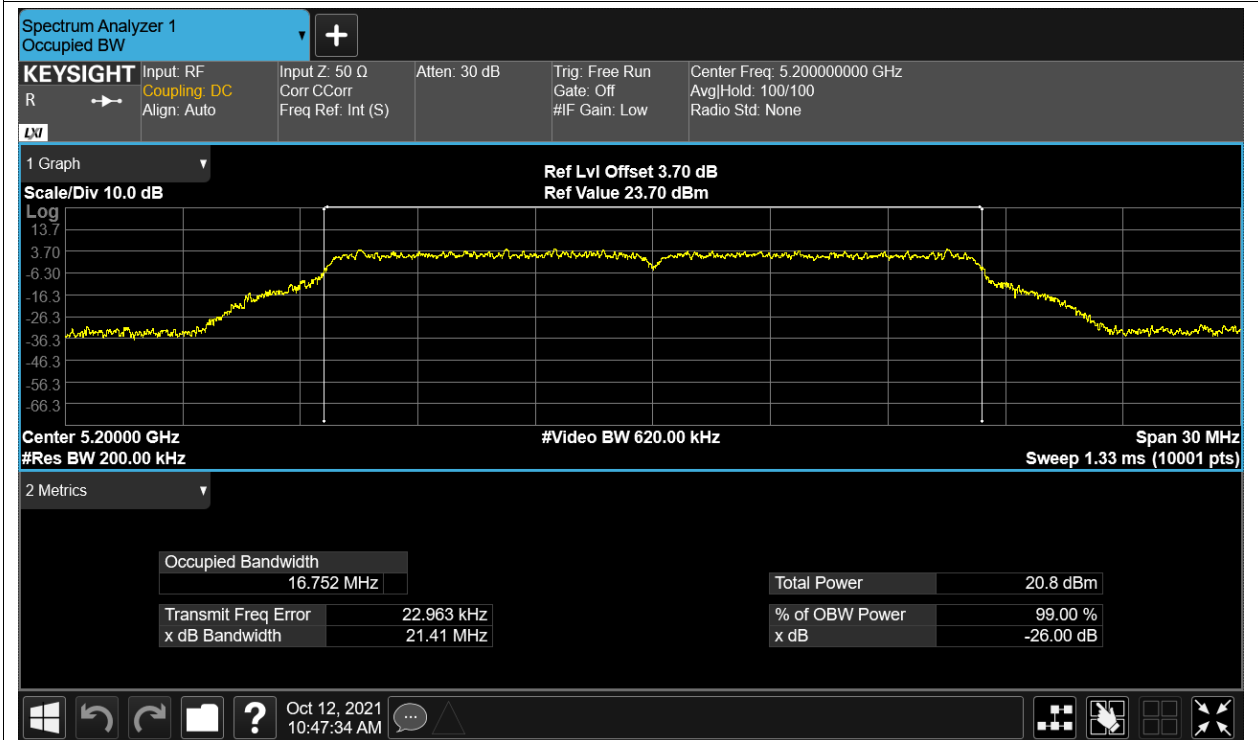
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.71498751
NVNT	a	5200	Ant1	16.75196491
NVNT	a	5240	Ant1	16.72331861
NVNT	a	5180	Ant2	16.78495437
NVNT	a	5200	Ant2	16.77582129
NVNT	a	5240	Ant2	16.73921873
NVNT	ac20	5180	Ant1	17.83167124
NVNT	ac20	5180	Ant2	17.87785544
NVNT	ac20	5200	Ant1	17.85465756
NVNT	ac20	5200	Ant2	17.87226386
NVNT	ac20	5240	Ant1	17.85820311
NVNT	ac20	5240	Ant2	17.84249146
NVNT	ac40	5190	Ant1	36.29508171
NVNT	ac40	5190	Ant2	36.30595539
NVNT	ac40	5230	Ant1	36.3486115
NVNT	ac40	5230	Ant2	36.33737634
NVNT	ac80	5210	Ant1	75.73771921
NVNT	ac80	5210	Ant2	75.75265772
NVNT	n20	5180	Ant1	17.89403728
NVNT	n20	5180	Ant2	17.90068865
NVNT	n20	5200	Ant1	17.90233306
NVNT	n20	5200	Ant2	17.89881814
NVNT	n20	5240	Ant1	17.89471045
NVNT	n20	5240	Ant2	17.84163817
NVNT	n40	5190	Ant1	36.33291141
NVNT	n40	5190	Ant2	36.37318544
NVNT	n40	5230	Ant1	36.36520311
NVNT	n40	5230	Ant2	36.31983728

Test Graphs

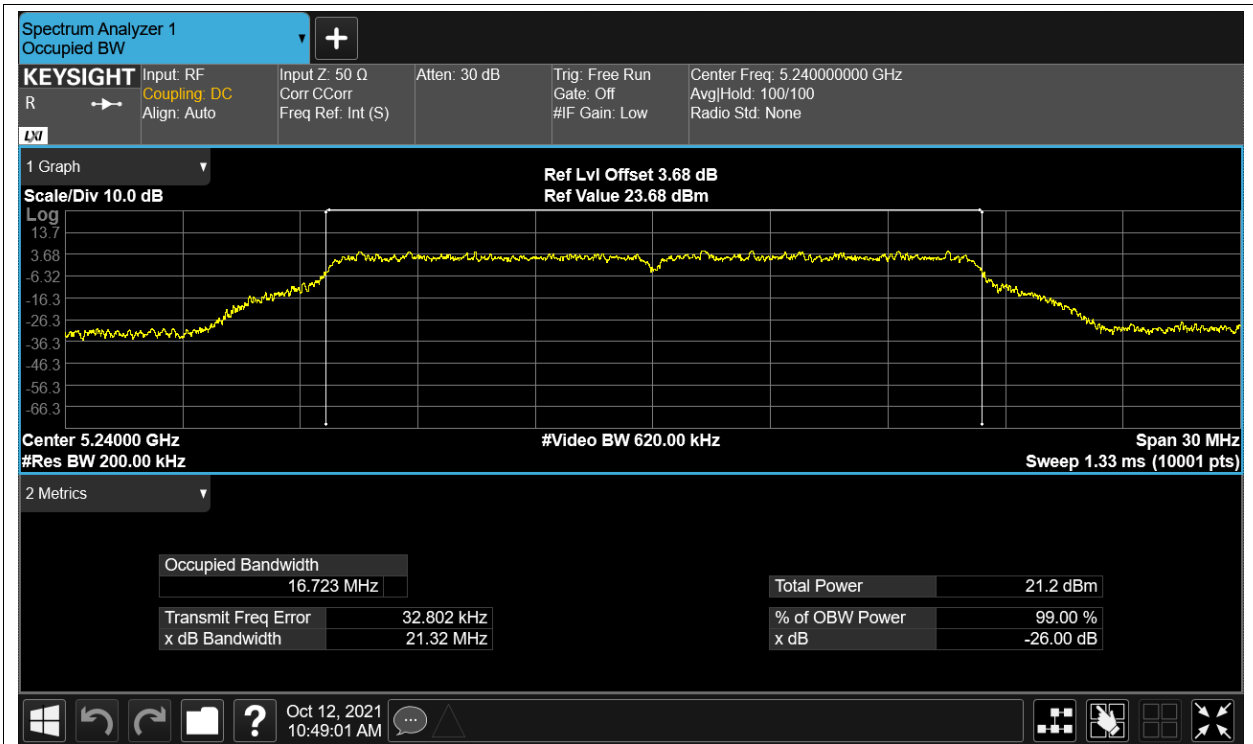
OBW NVNT a 5180MHz Ant1



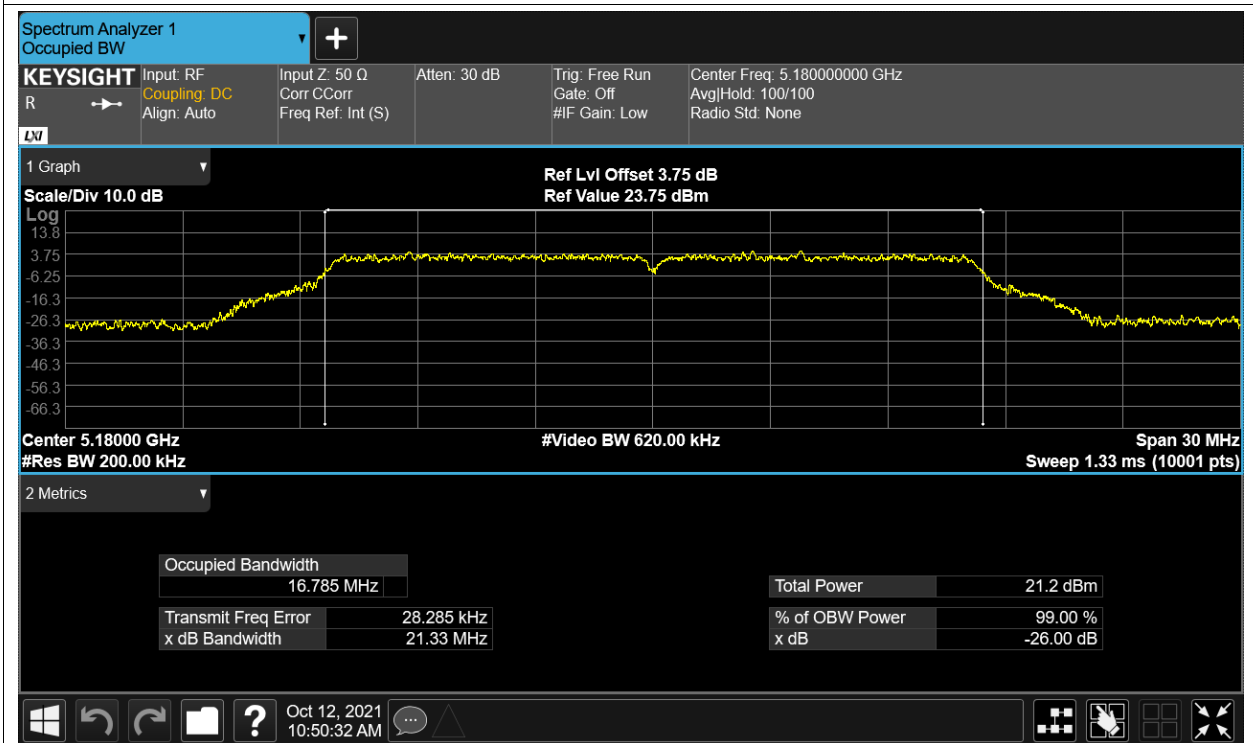
OBW NVNT a 5200MHz Ant1



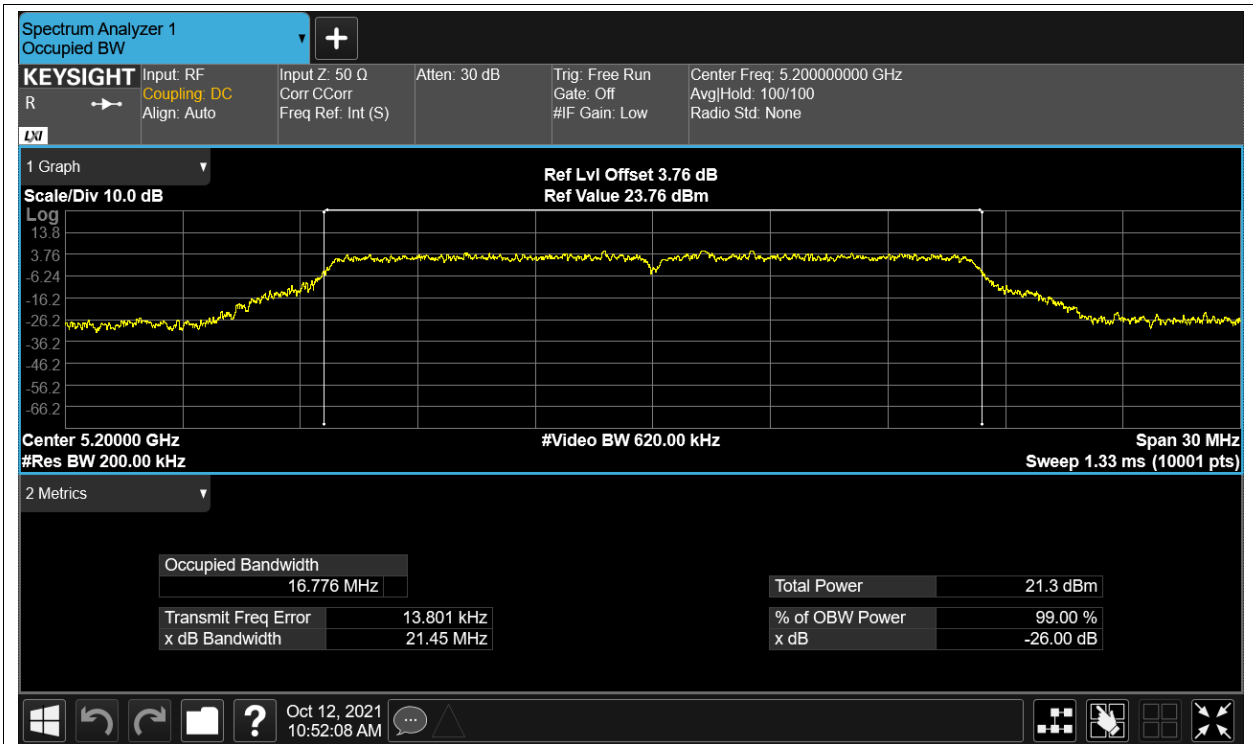
OBW NVNT a 5240MHz Ant1



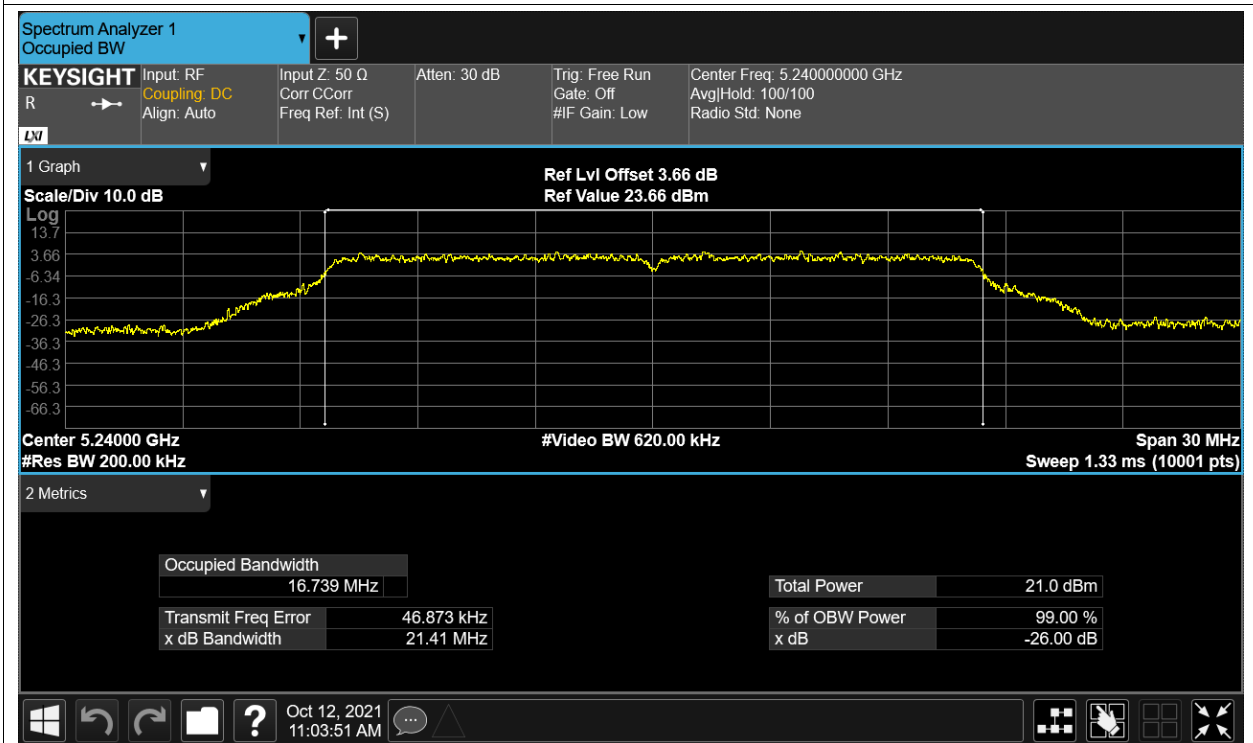
OBW NVNT a 5180MHz Ant2



OBW NVNT a 5200MHz Ant2

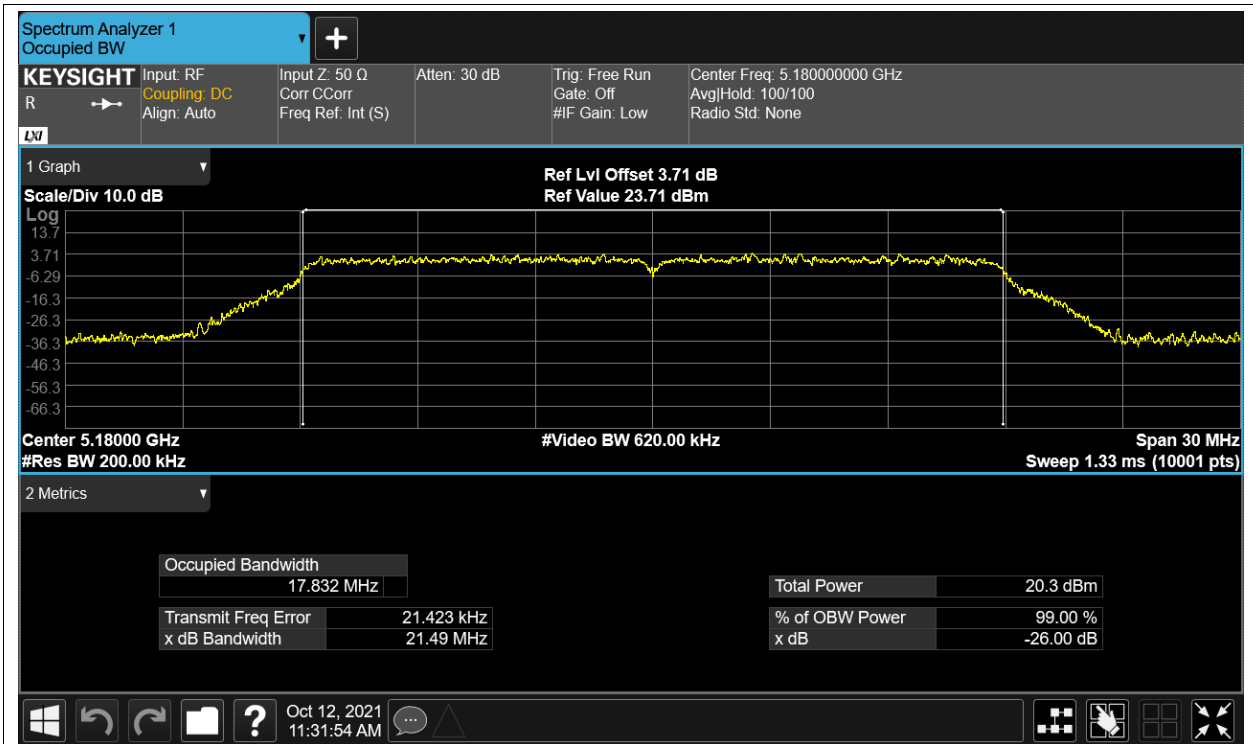


OBW NVNT a 5240MHz Ant2

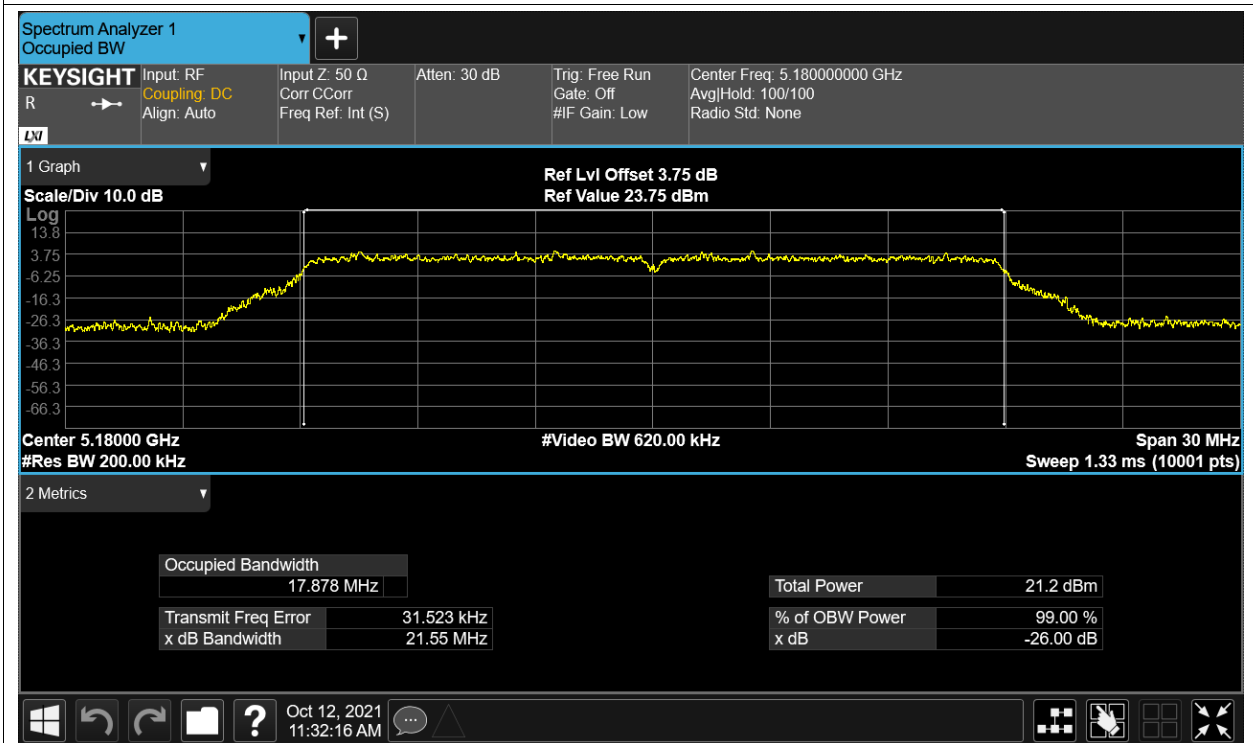


OBW NVNT ac20 5180MHz Ant1

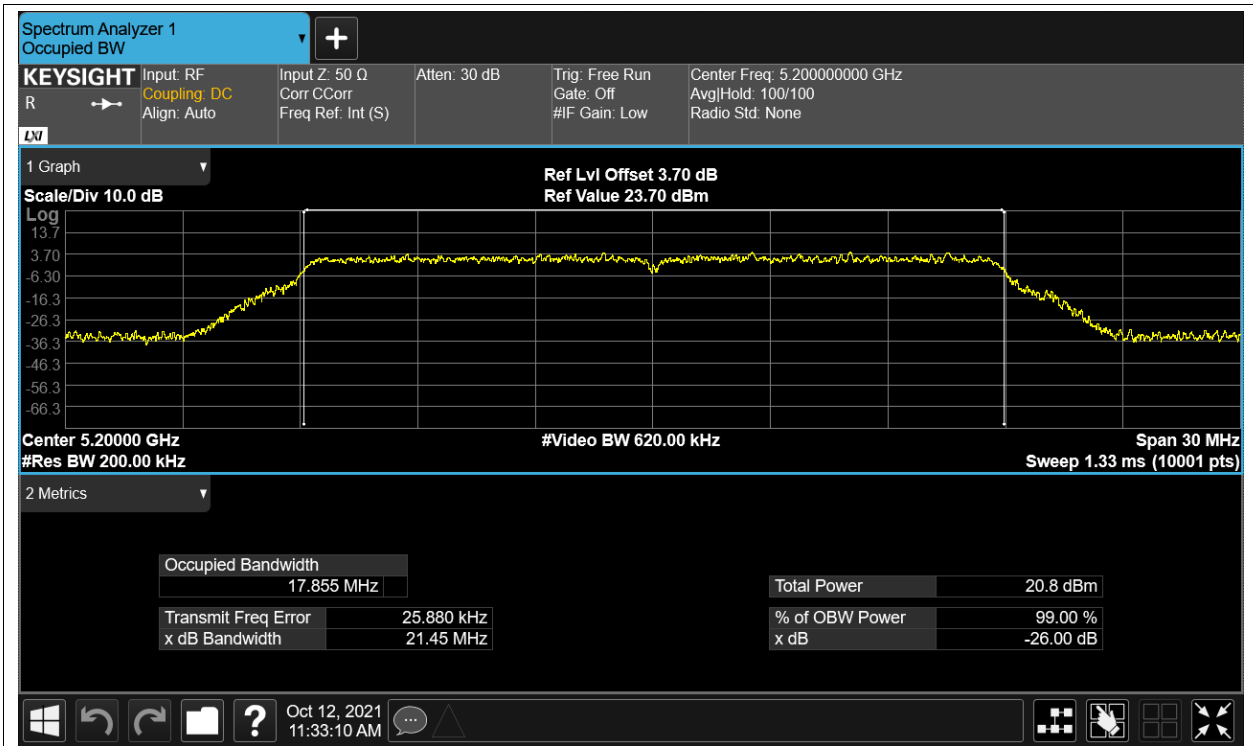




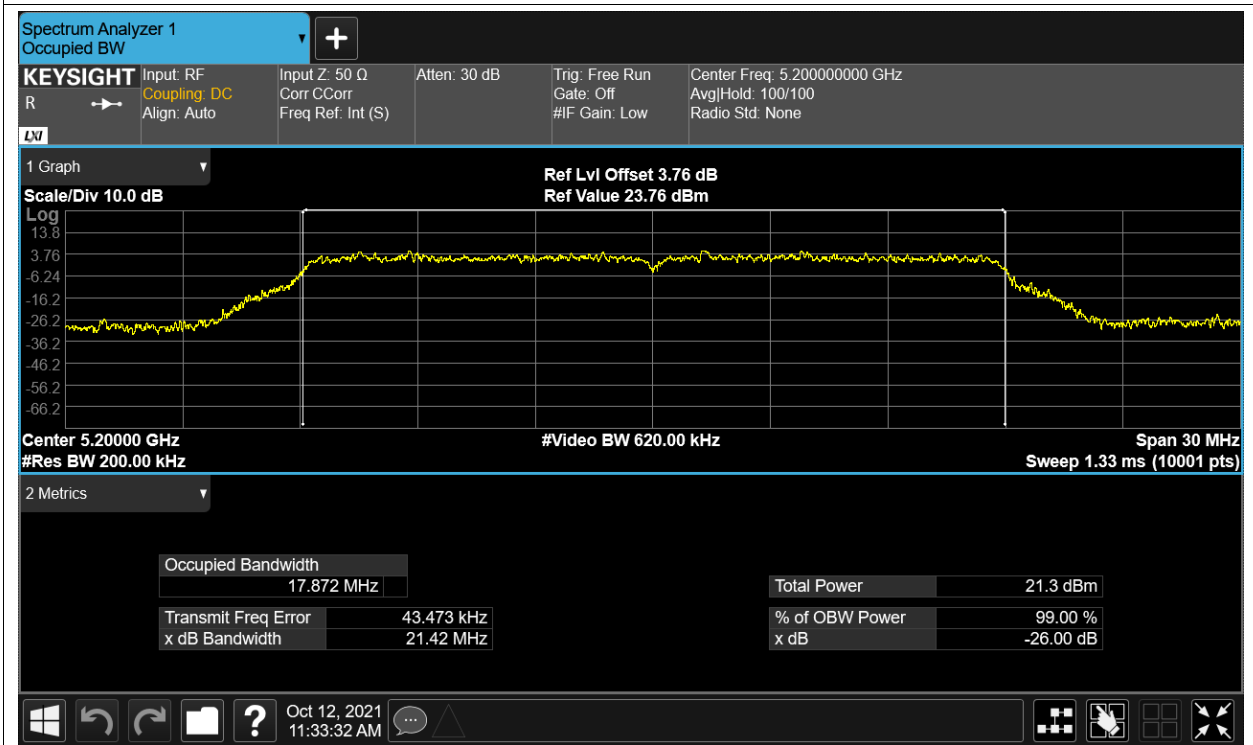
OBW NVNT ac20 5180MHz Ant2



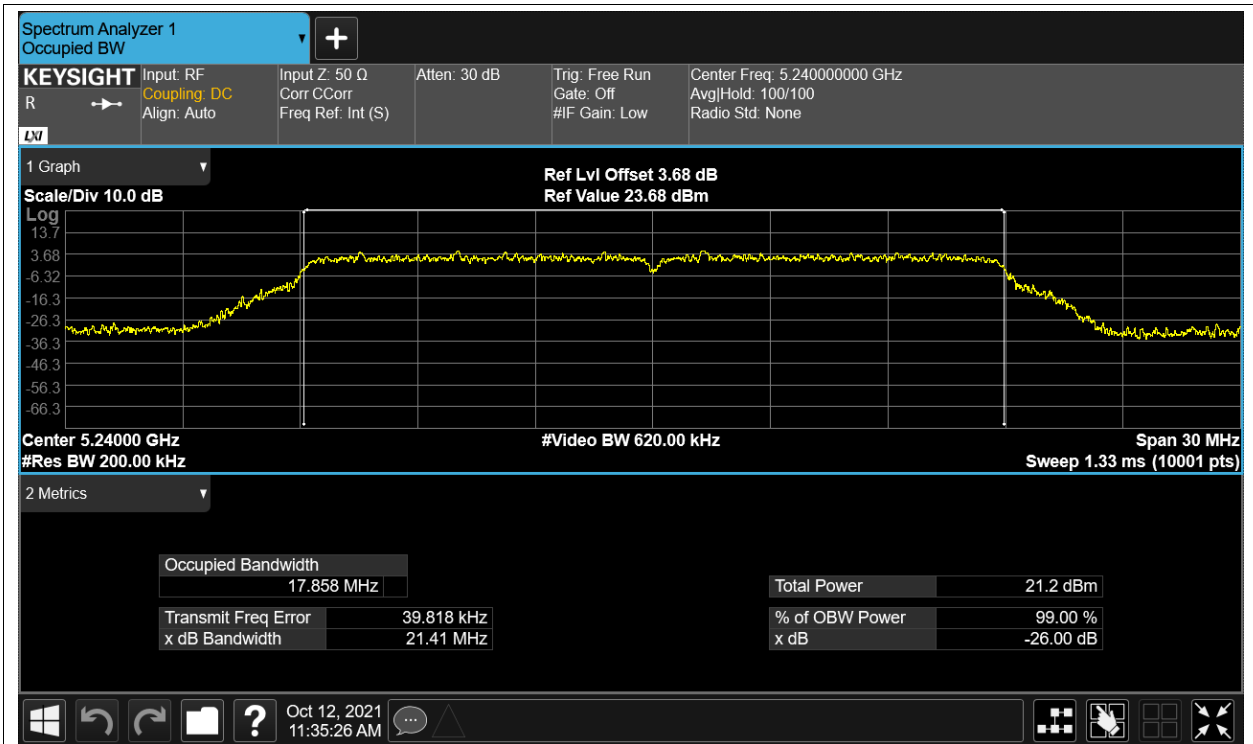
OBW NVNT ac20 5200MHz Ant1



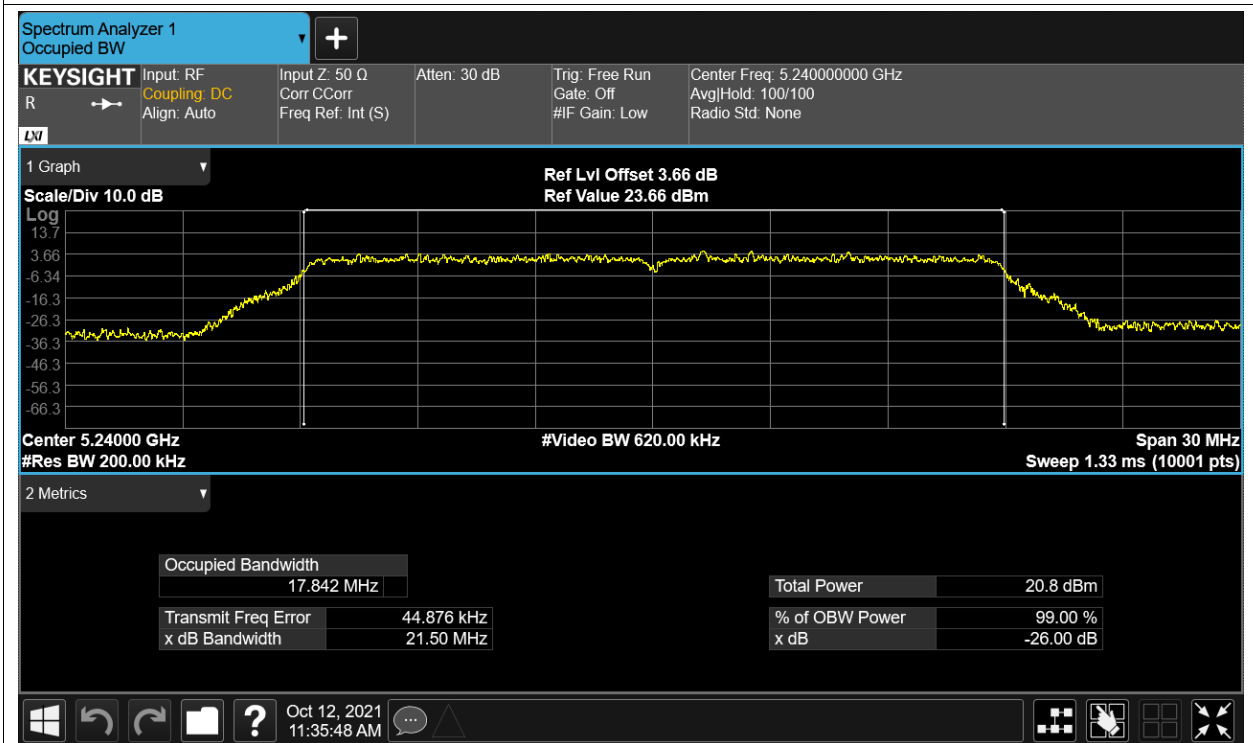
OBW NVNT ac20 5200MHz Ant2



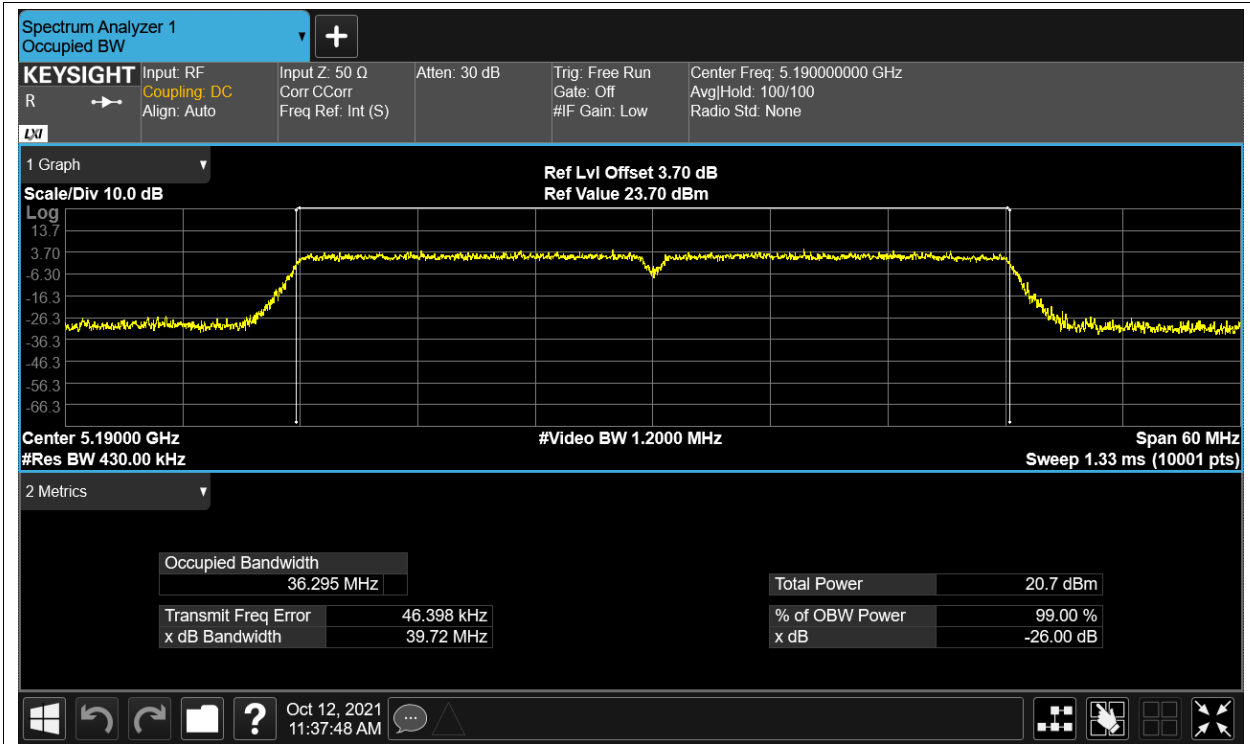
OBW NVNT ac20 5240MHz Ant1



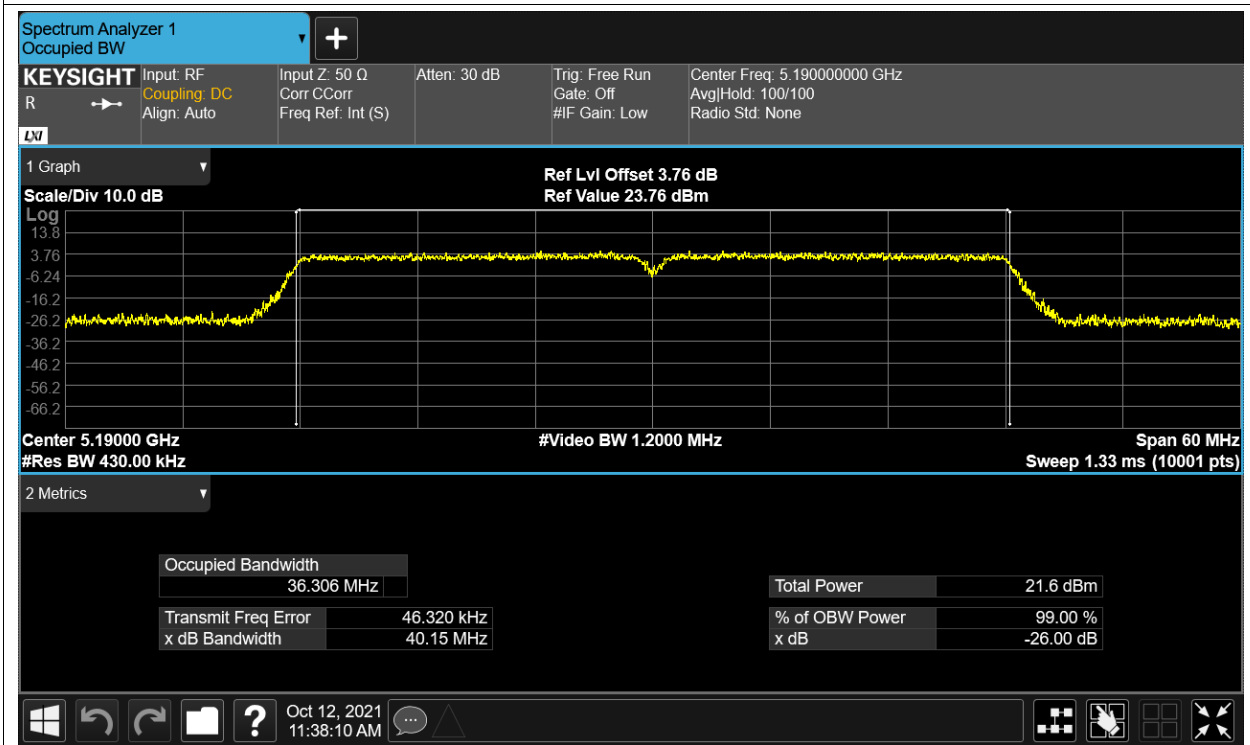
OBW NVNT ac20 5240MHz Ant2



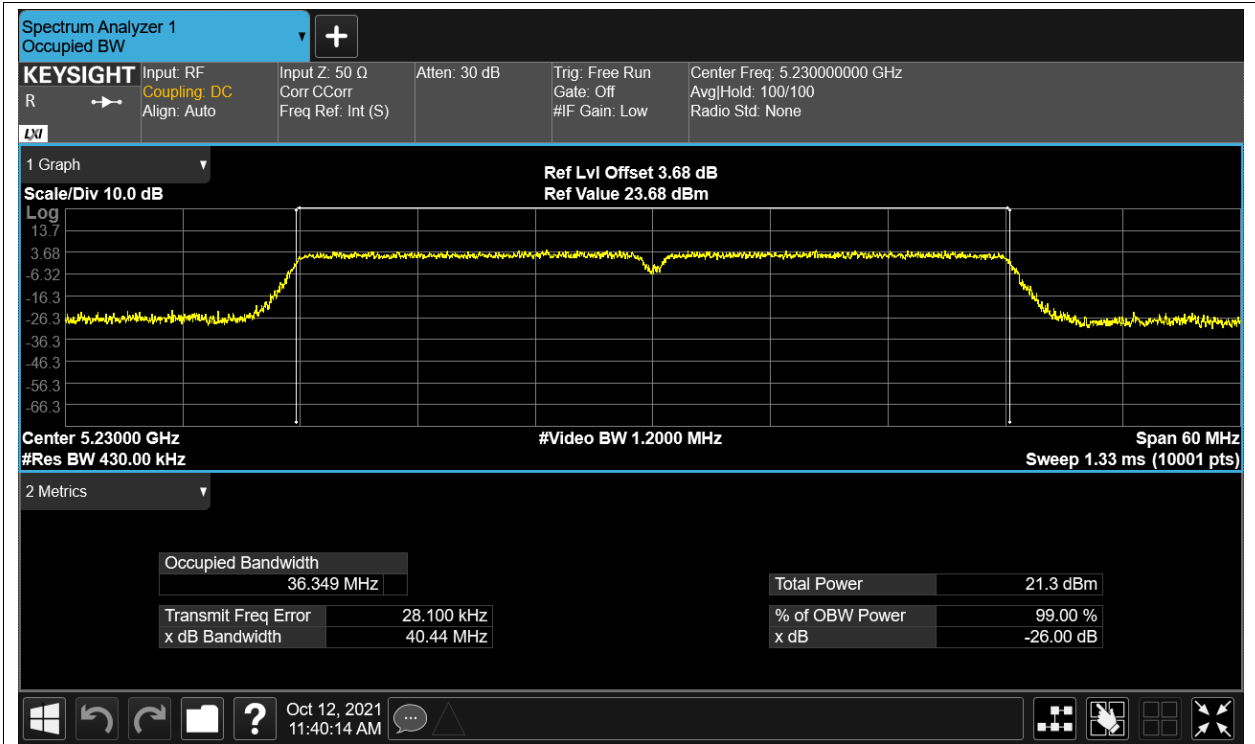
OBW NVNT ac40 5190MHz Ant1



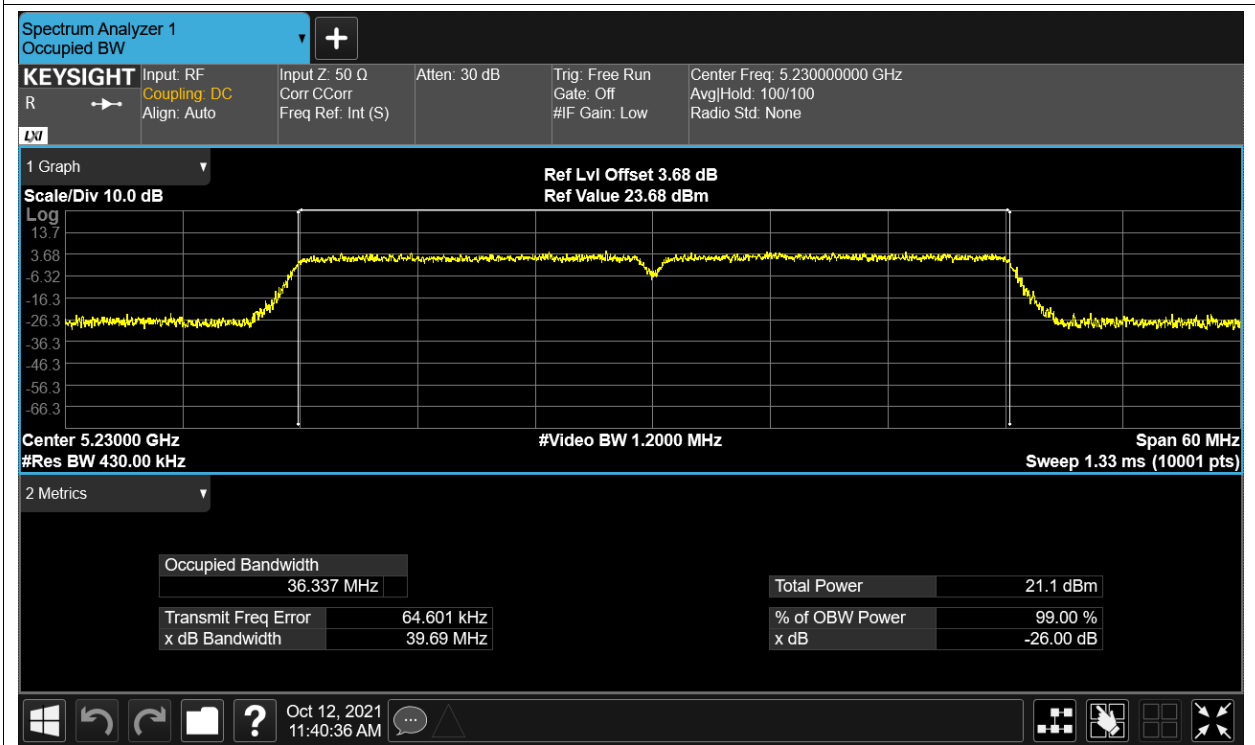
OBW NVNT ac40 5190MHz Ant2



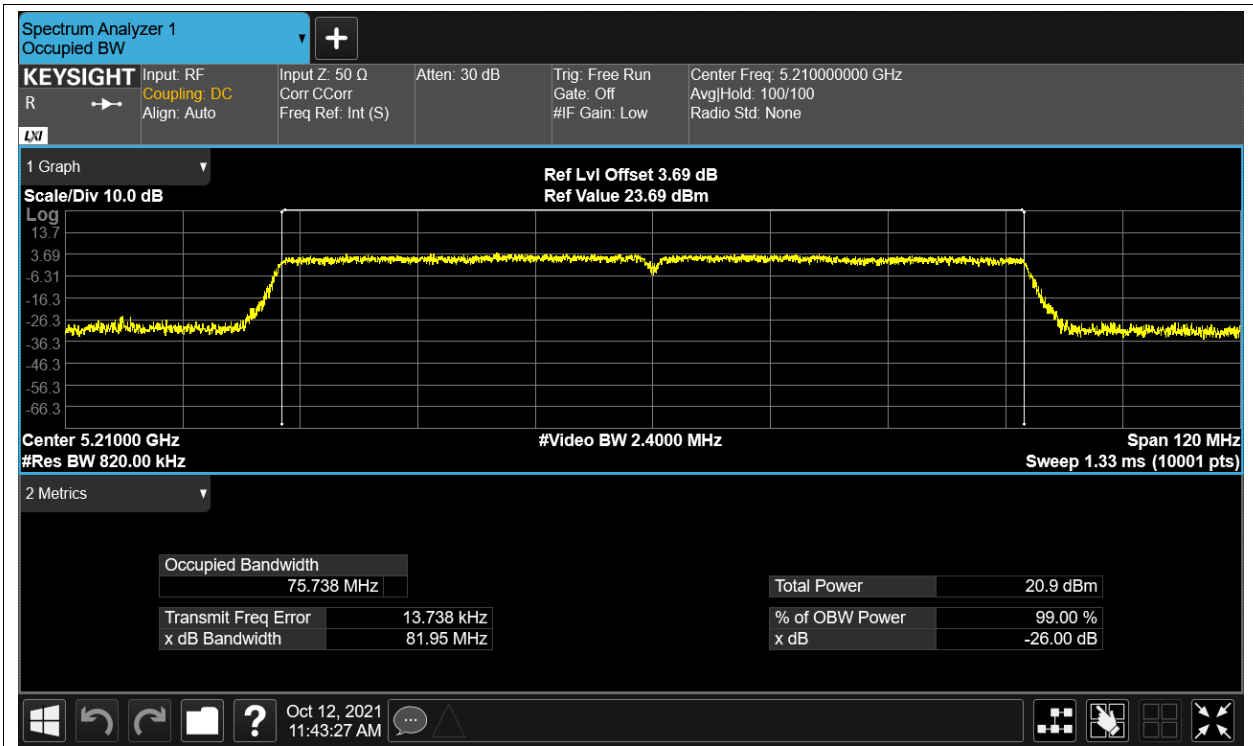
OBW NVNT ac40 5230MHz Ant1



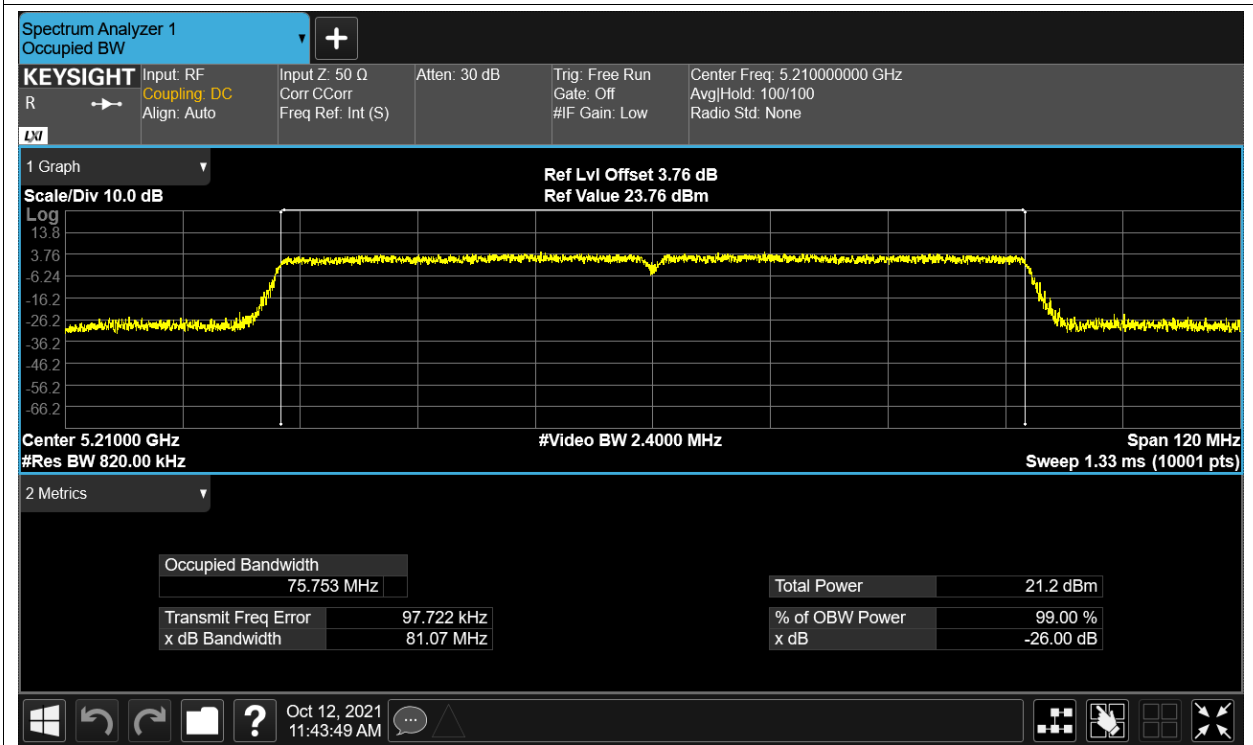
OBW NVNT ac40 5230MHz Ant2



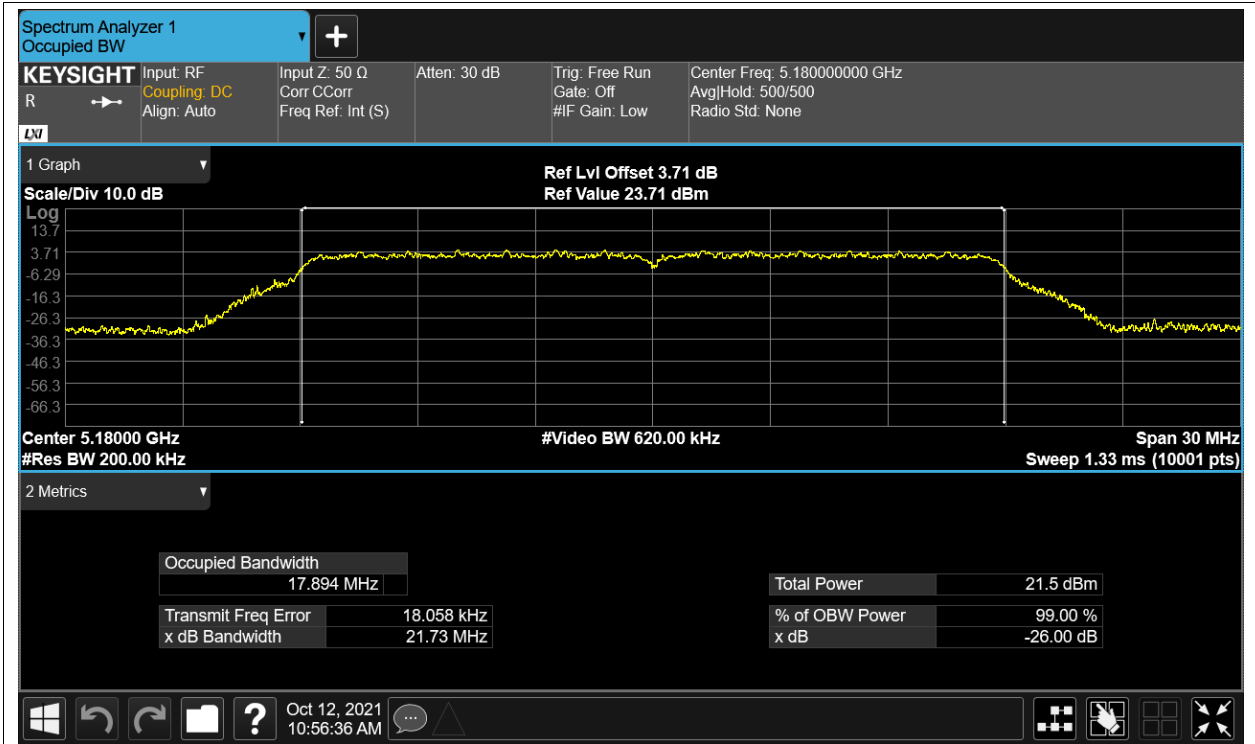
OBW NVNT ac80 5210MHz Ant1



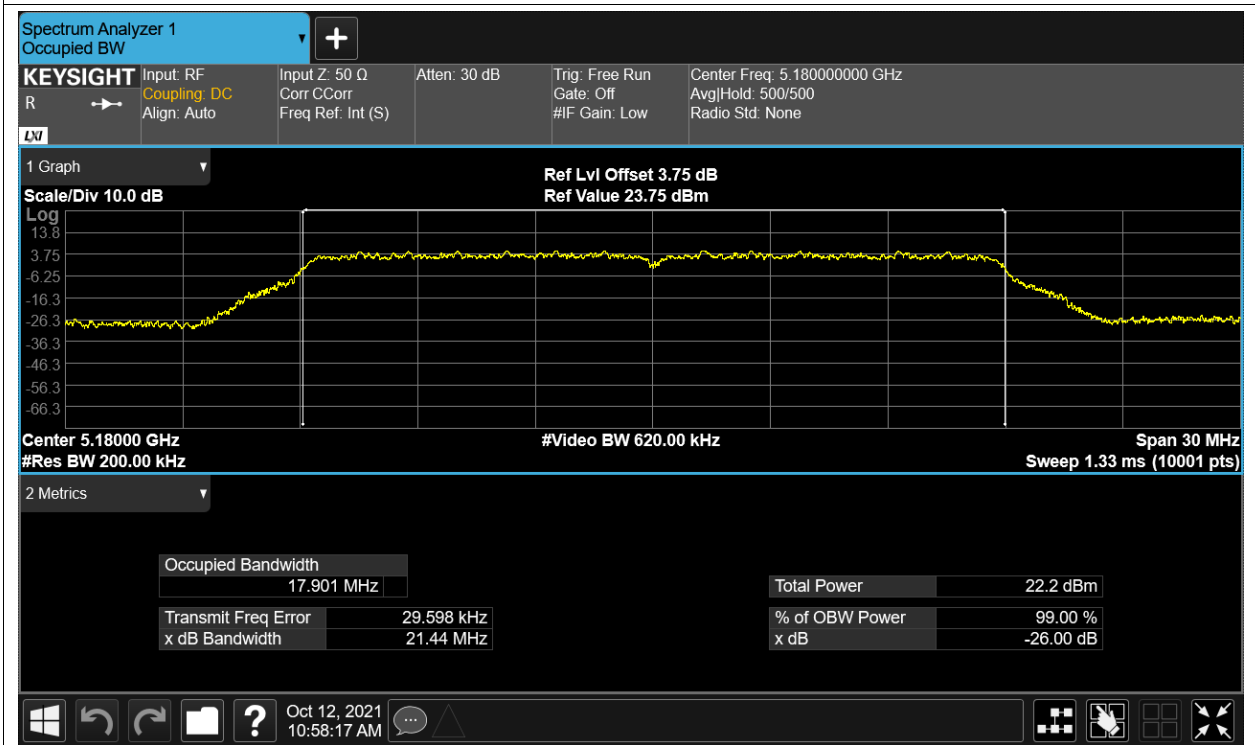
OBW NVNT ac80 5210MHz Ant2



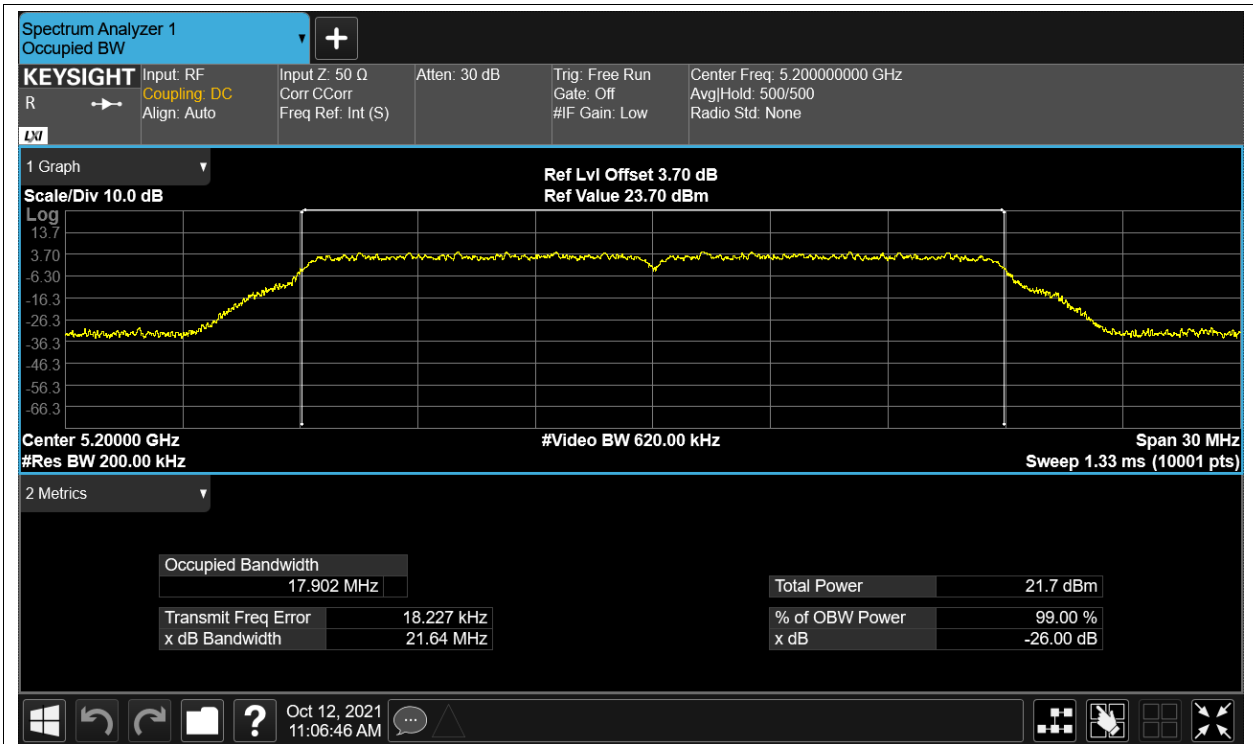
OBW NVNT n20 5180MHz Ant1



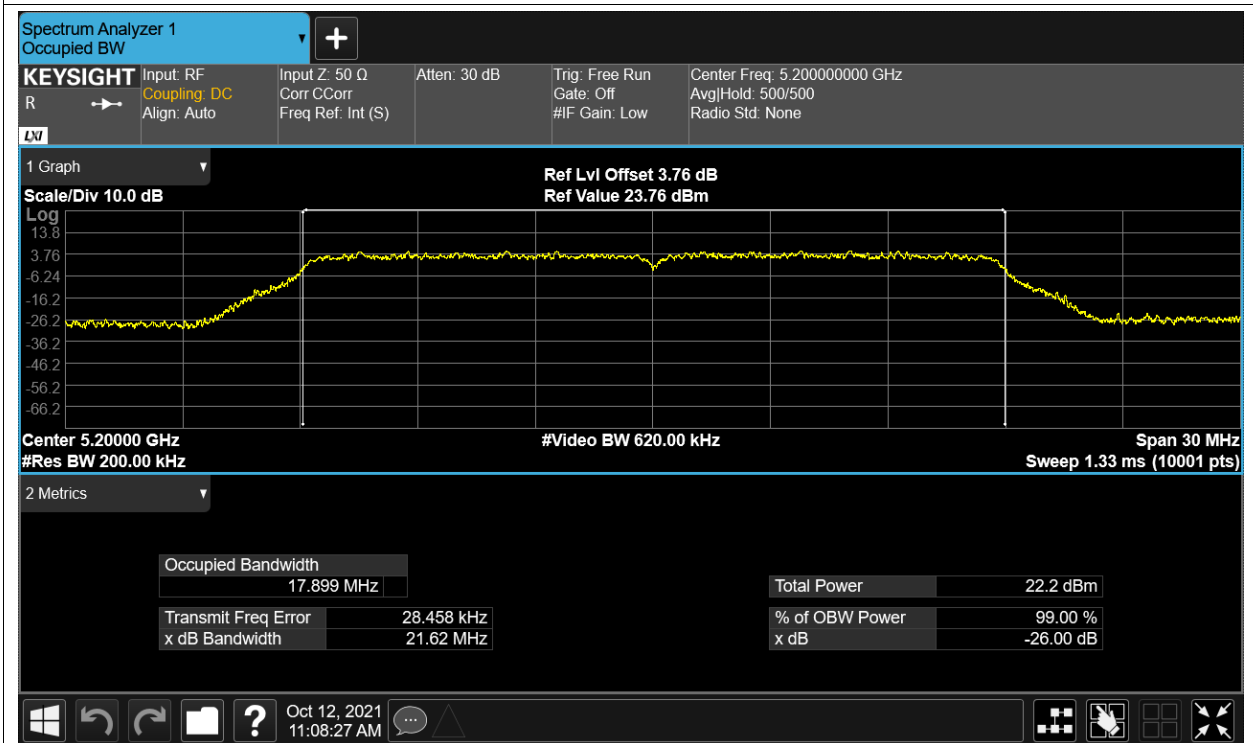
OBW NVNT n20 5180MHz Ant2



OBW NVNT n20 5200MHz Ant1

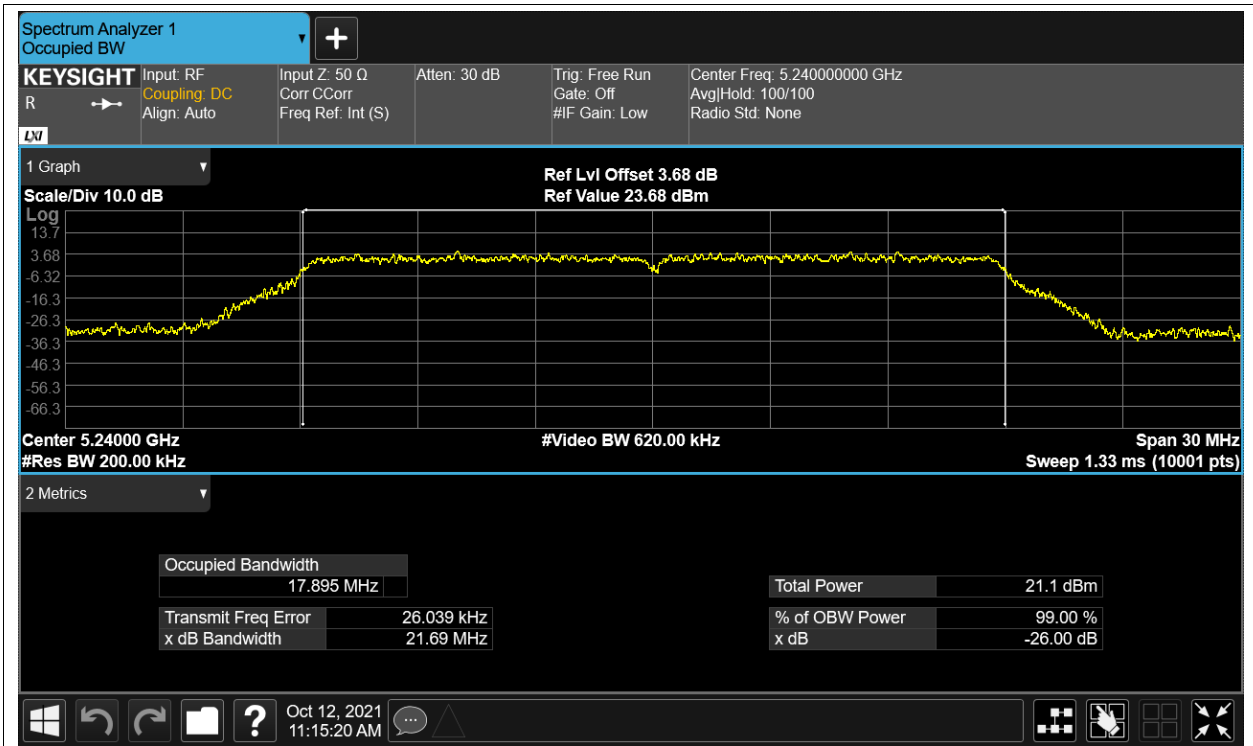


OBW NVNT n20 5200MHz Ant2

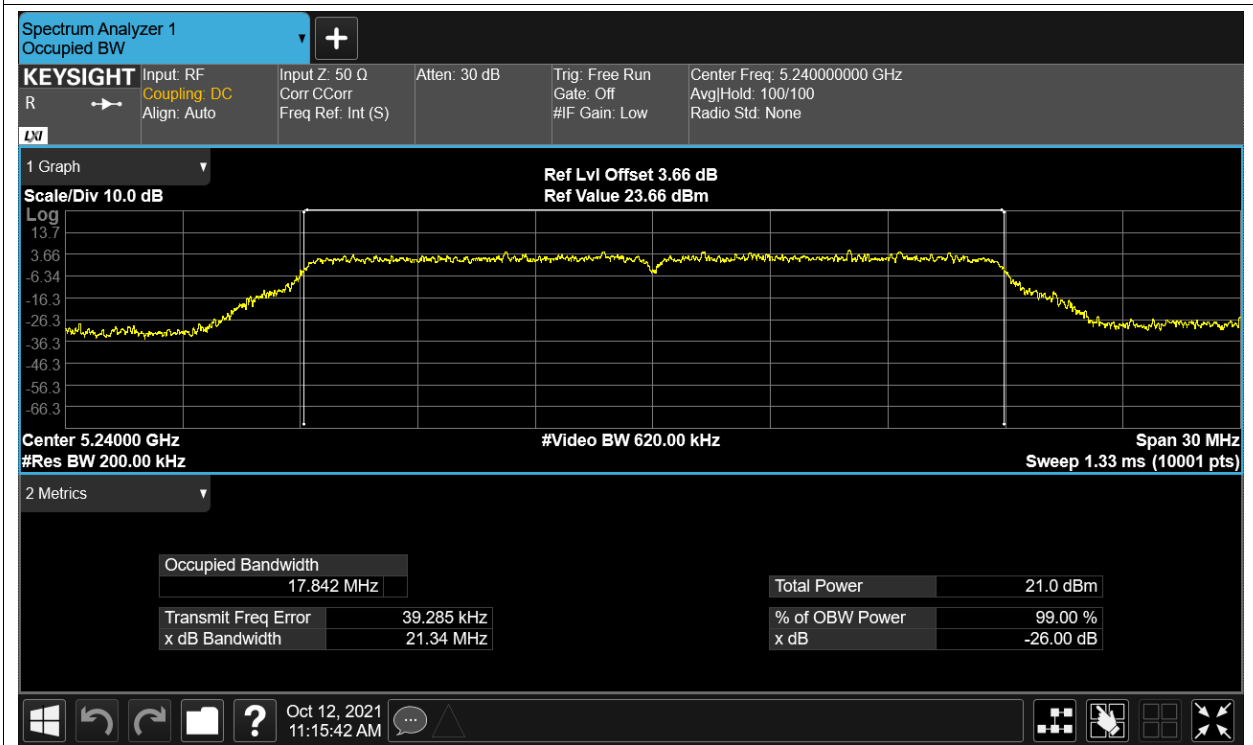


OBW NVNT n20 5240MHz Ant1

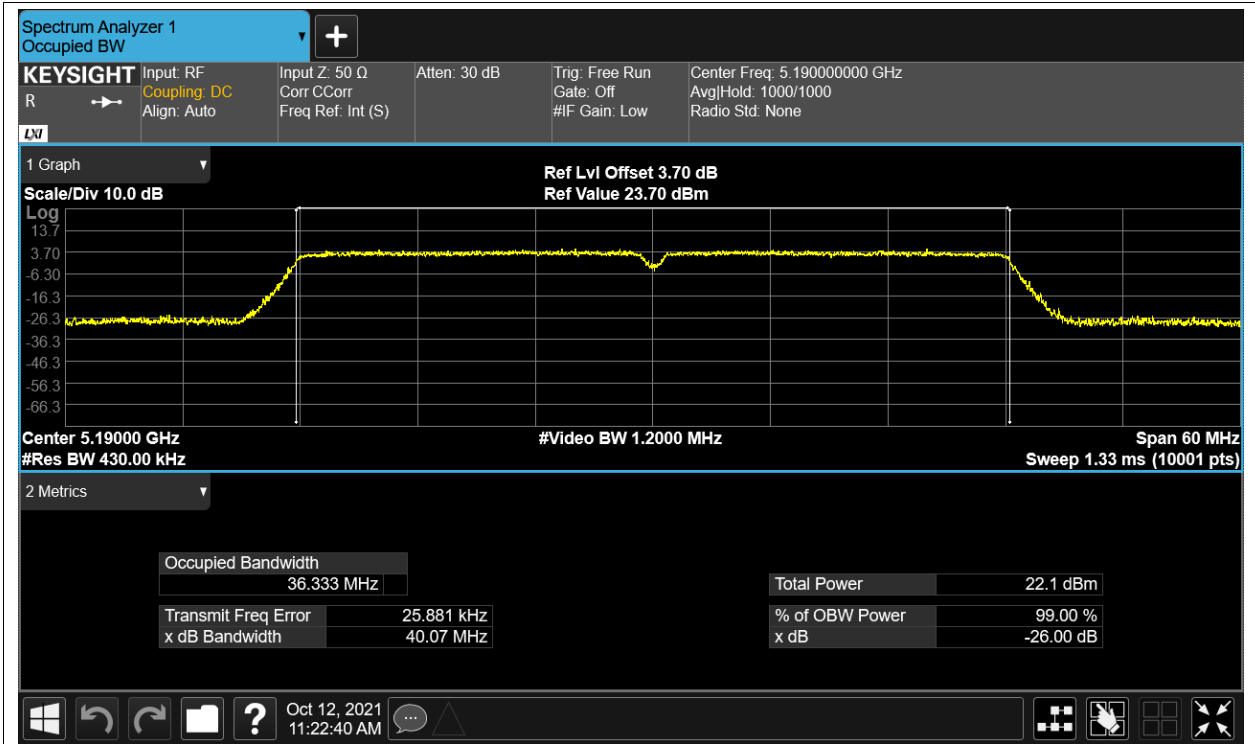




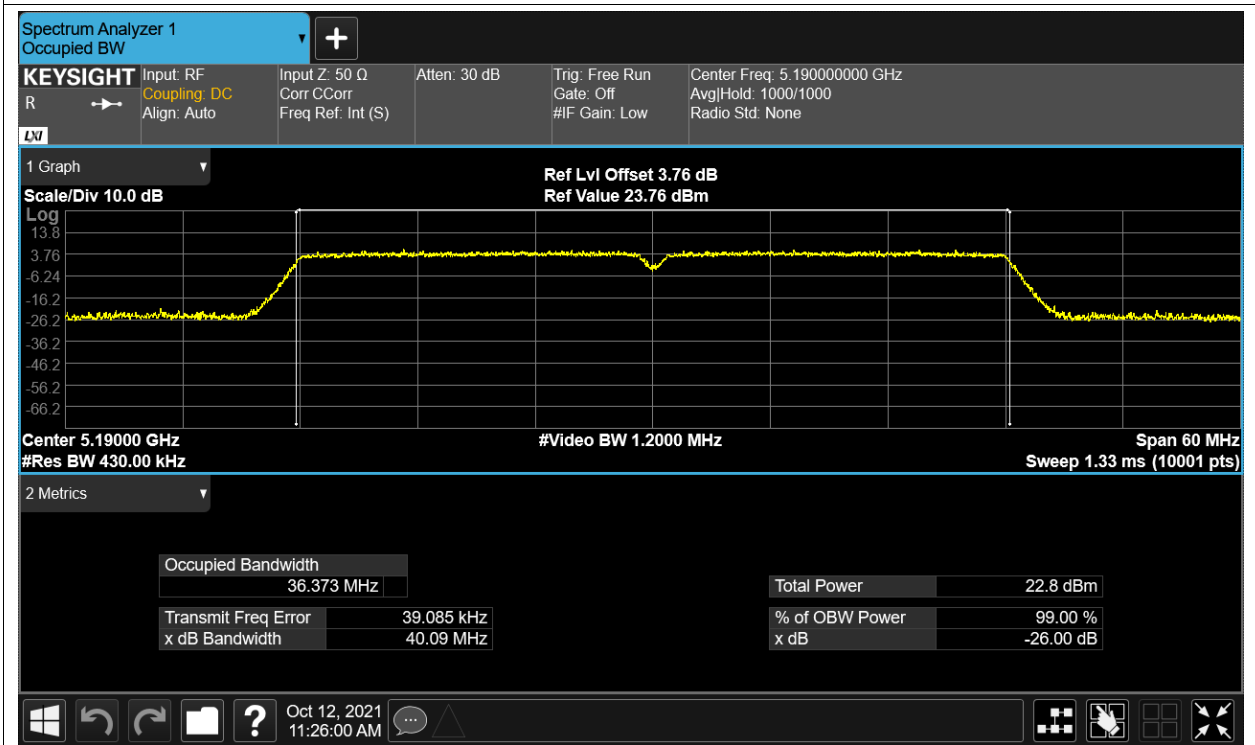
OBW NVNT n20 5240MHz Ant2



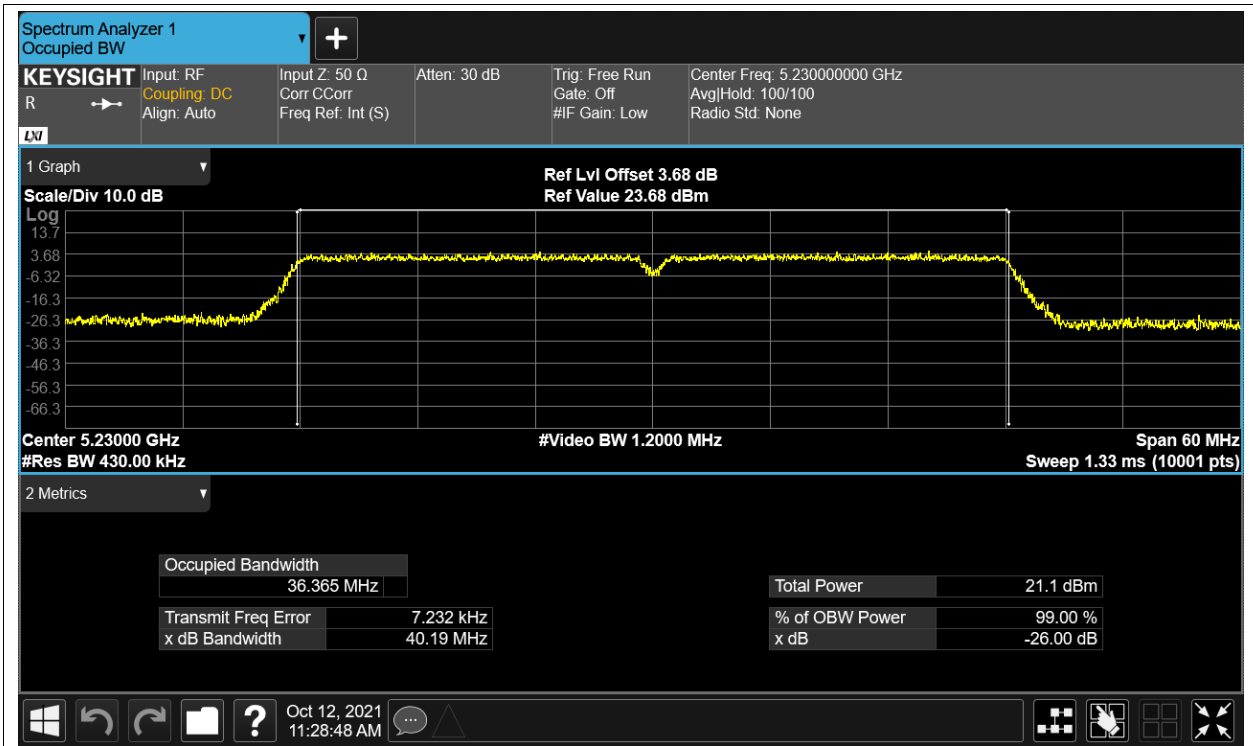
OBW NVNT n40 5190MHz Ant1



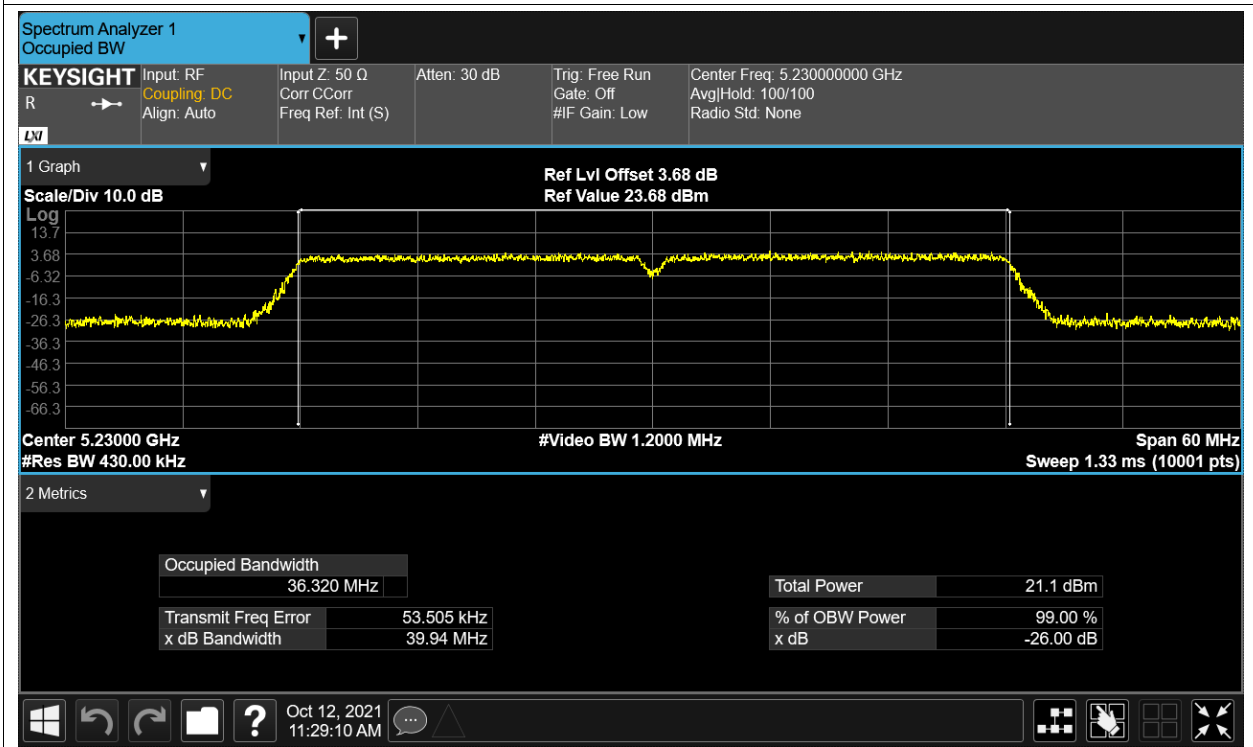
OBW NVNT n40 5190MHz Ant2



OBW NVNT n40 5230MHz Ant1

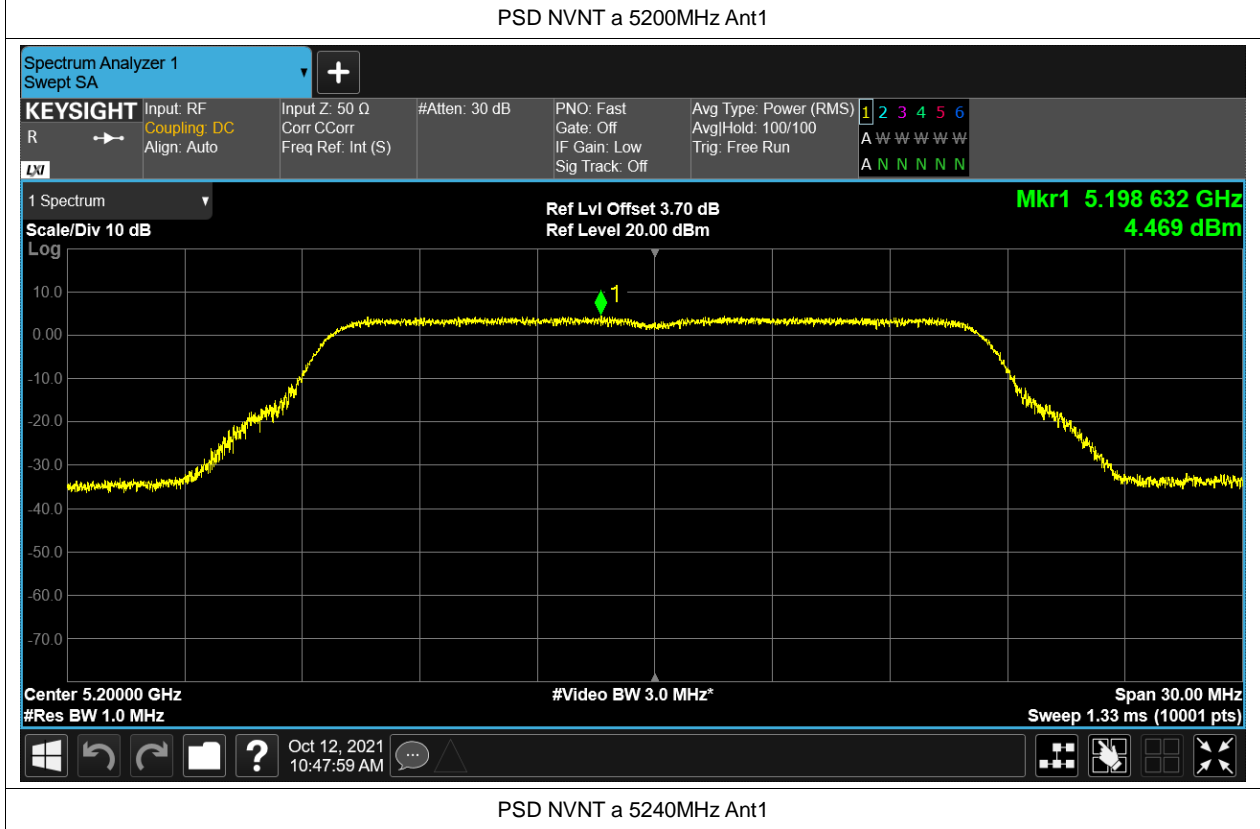
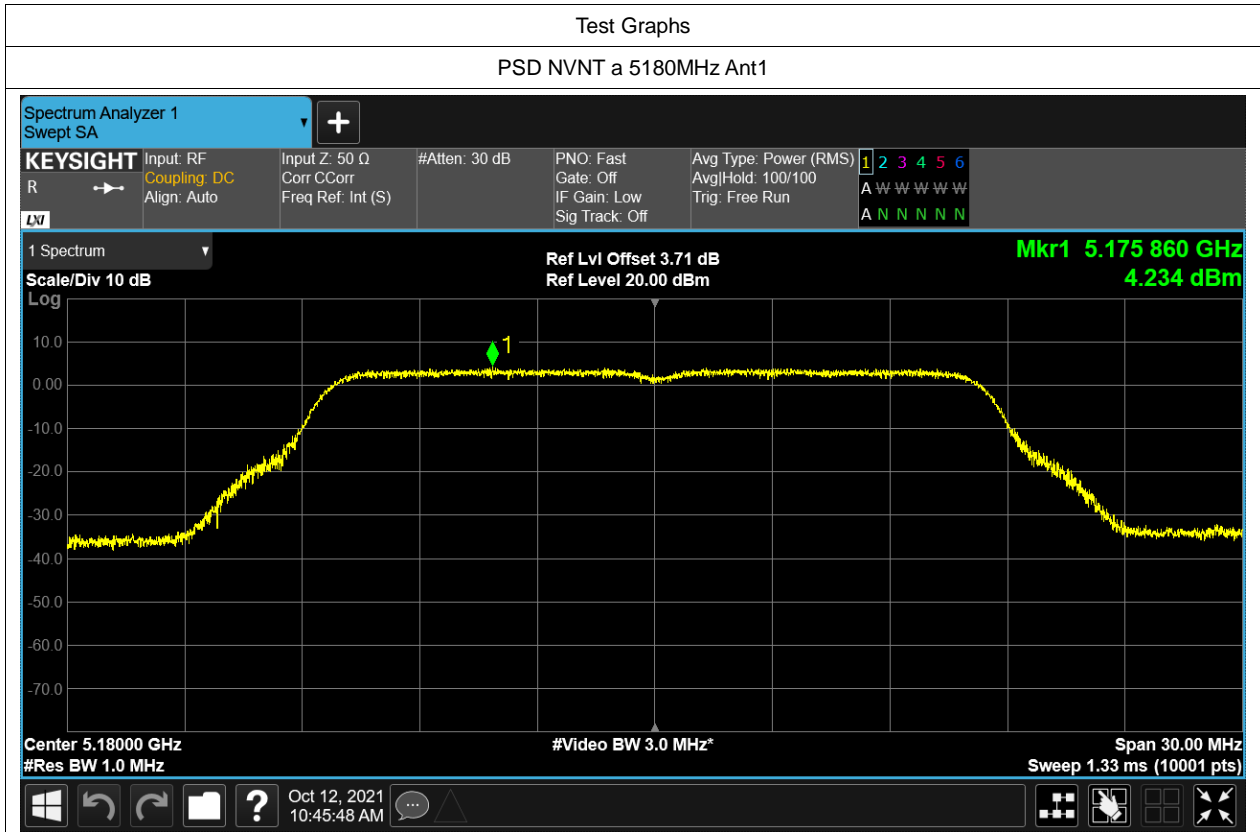


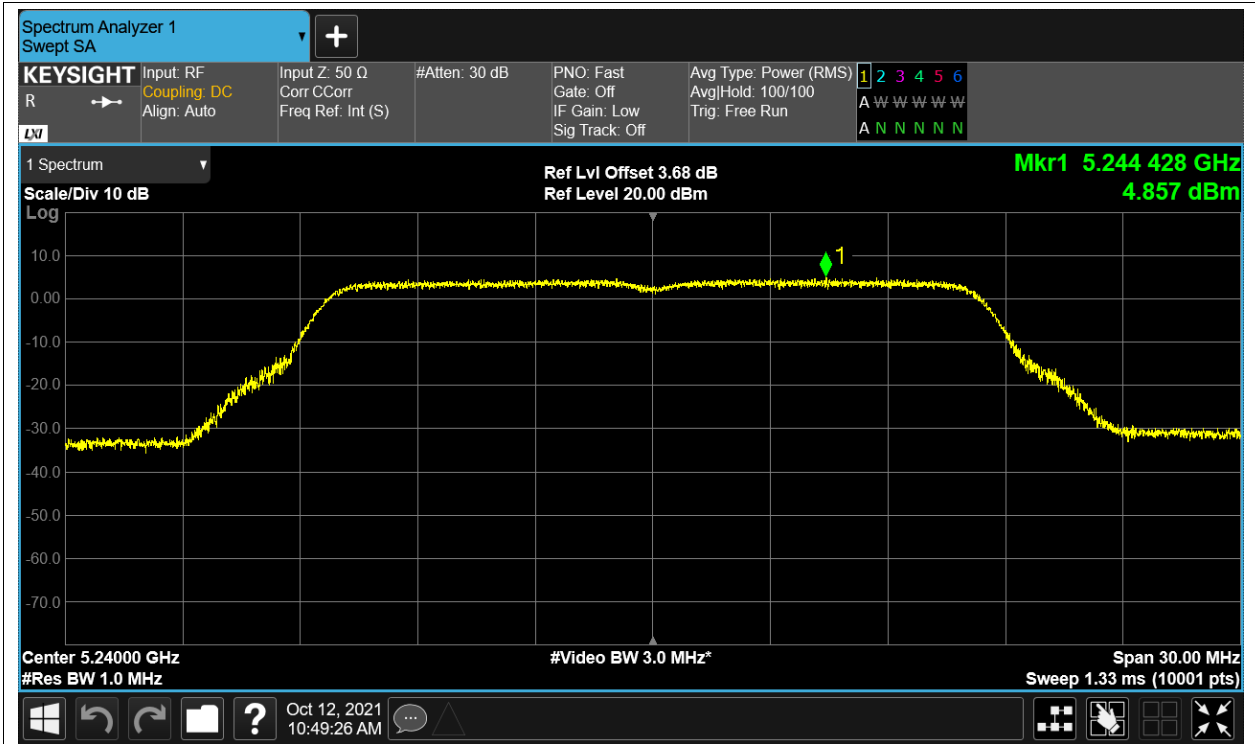
OBW NVNT n40 5230MHz Ant2



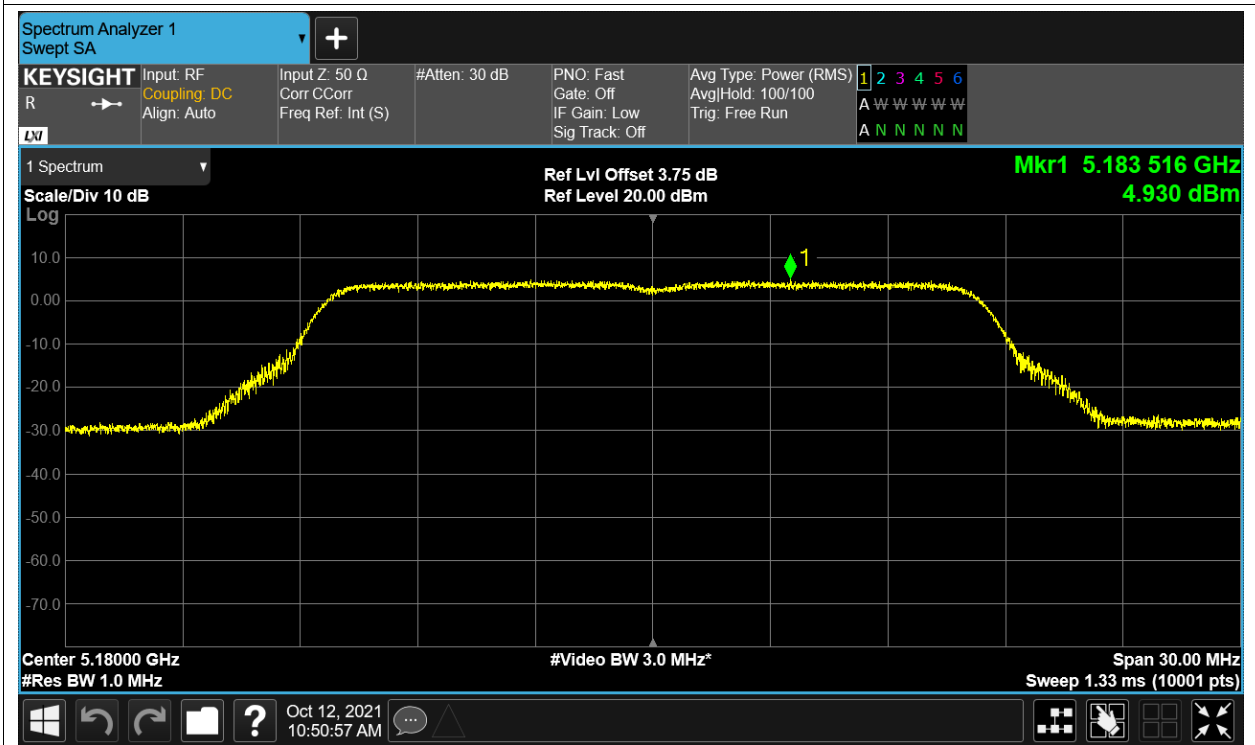
## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	4.234	11	Pass
NVNT	a	5200	Ant1	4.469	11	Pass
NVNT	a	5240	Ant1	4.857	11	Pass
NVNT	a	5180	Ant2	4.93	11	Pass
NVNT	a	5200	Ant2	5.095	11	Pass
NVNT	a	5240	Ant2	5.066	11	Pass
NVNT	ac20	5180	Ant1	3.358	11	Pass
NVNT	ac20	5180	Ant2	3.361	11	Pass
NVNT	ac20	5180	Sum	6.37	11	Pass
NVNT	ac20	5200	Ant1	3.821	11	Pass
NVNT	ac20	5200	Ant2	4.626	11	Pass
NVNT	ac20	5200	Sum	7.252	11	Pass
NVNT	ac20	5240	Ant1	4.253	11	Pass
NVNT	ac20	5240	Ant2	2.794	11	Pass
NVNT	ac20	5240	Sum	6.595	11	Pass
NVNT	ac40	5190	Ant1	0.821	11	Pass
NVNT	ac40	5190	Ant2	1.769	11	Pass
NVNT	ac40	5190	Sum	4.331	11	Pass
NVNT	ac40	5230	Ant1	1.343	11	Pass
NVNT	ac40	5230	Ant2	0.454	11	Pass
NVNT	ac40	5230	Sum	3.932	11	Pass
NVNT	ac80	5210	Ant1	-2.33	11	Pass
NVNT	ac80	5210	Ant2	-3.057	11	Pass
NVNT	ac80	5210	Sum	0.332	11	Pass
NVNT	n20	5180	Ant1	3.296	11	Pass
NVNT	n20	5180	Ant2	3.854	11	Pass
NVNT	n20	5180	Sum	6.594	11	Pass
NVNT	n20	5200	Ant1	3.437	11	Pass
NVNT	n20	5200	Ant2	3.72	11	Pass
NVNT	n20	5200	Sum	6.591	11	Pass
NVNT	n20	5240	Ant1	4.048	11	Pass
NVNT	n20	5240	Ant2	3.991	11	Pass
NVNT	n20	5240	Sum	7.03	11	Pass
NVNT	n40	5190	Ant1	1.132	11	Pass
NVNT	n40	5190	Ant2	0.225	11	Pass
NVNT	n40	5190	Sum	3.712	11	Pass
NVNT	n40	5230	Ant1	1.447	11	Pass
NVNT	n40	5230	Ant2	0.794	11	Pass
NVNT	n40	5230	Sum	4.143	11	Pass

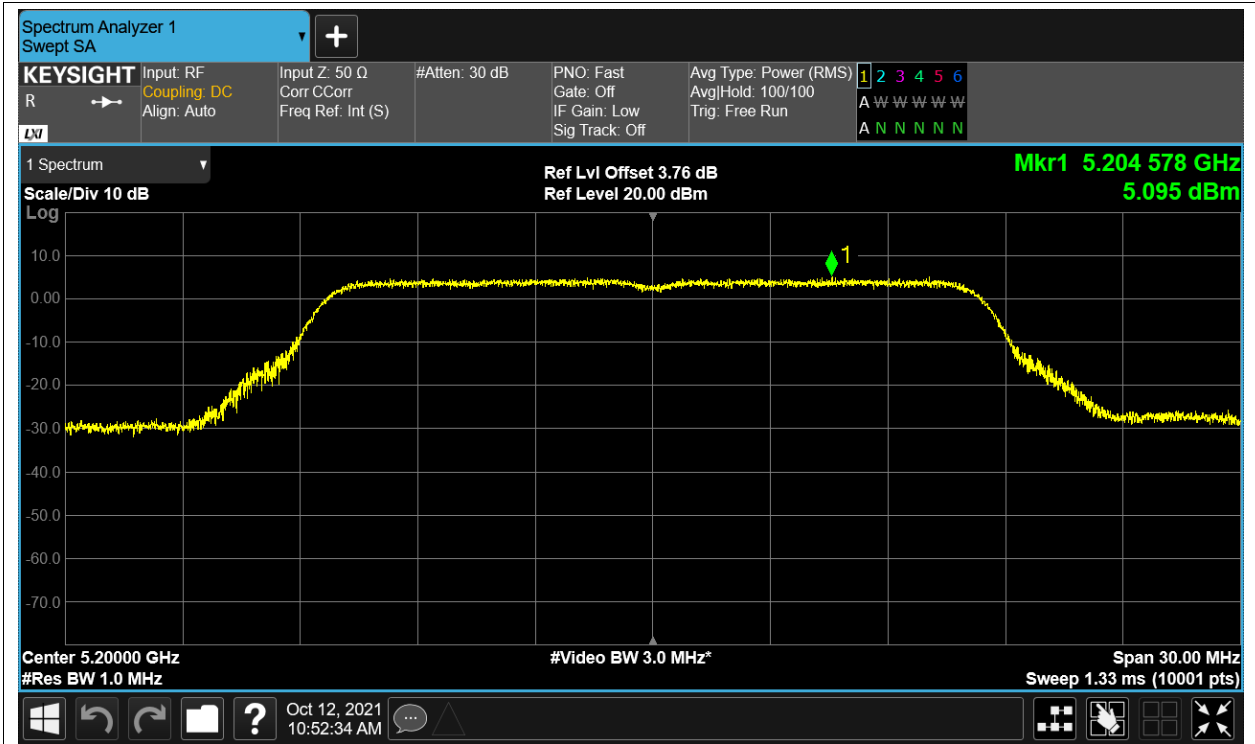




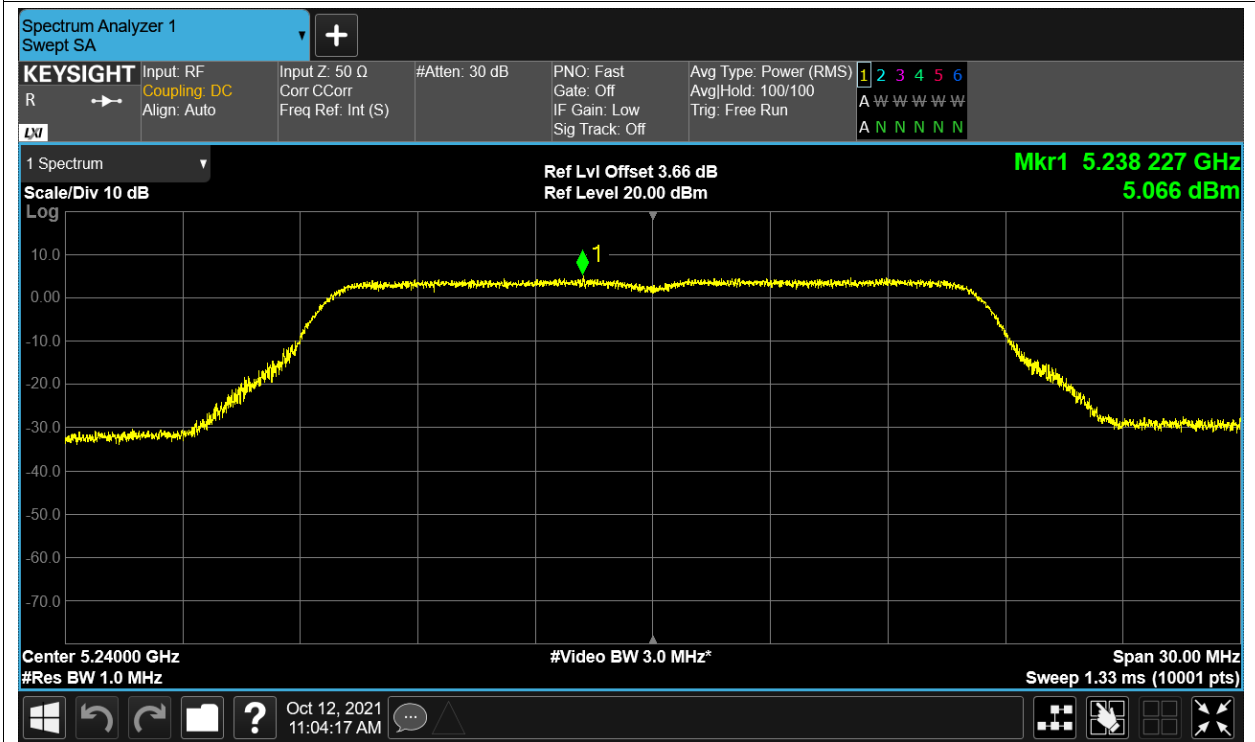
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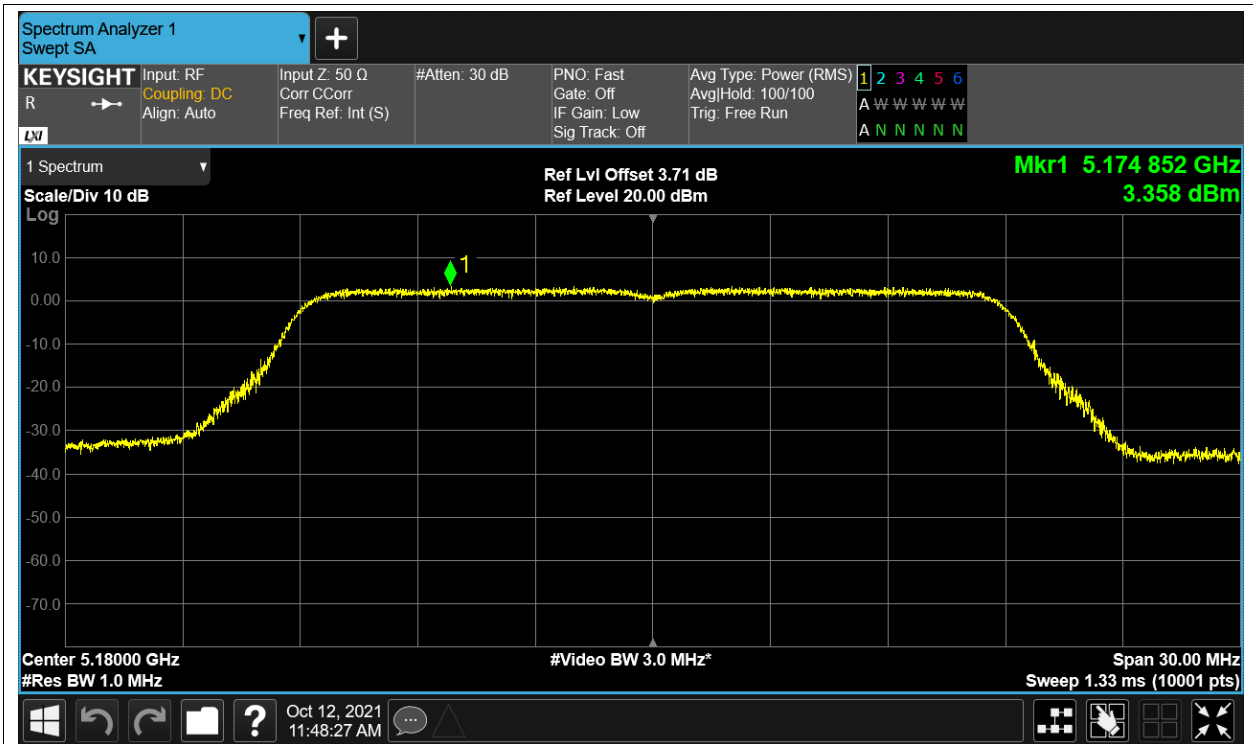
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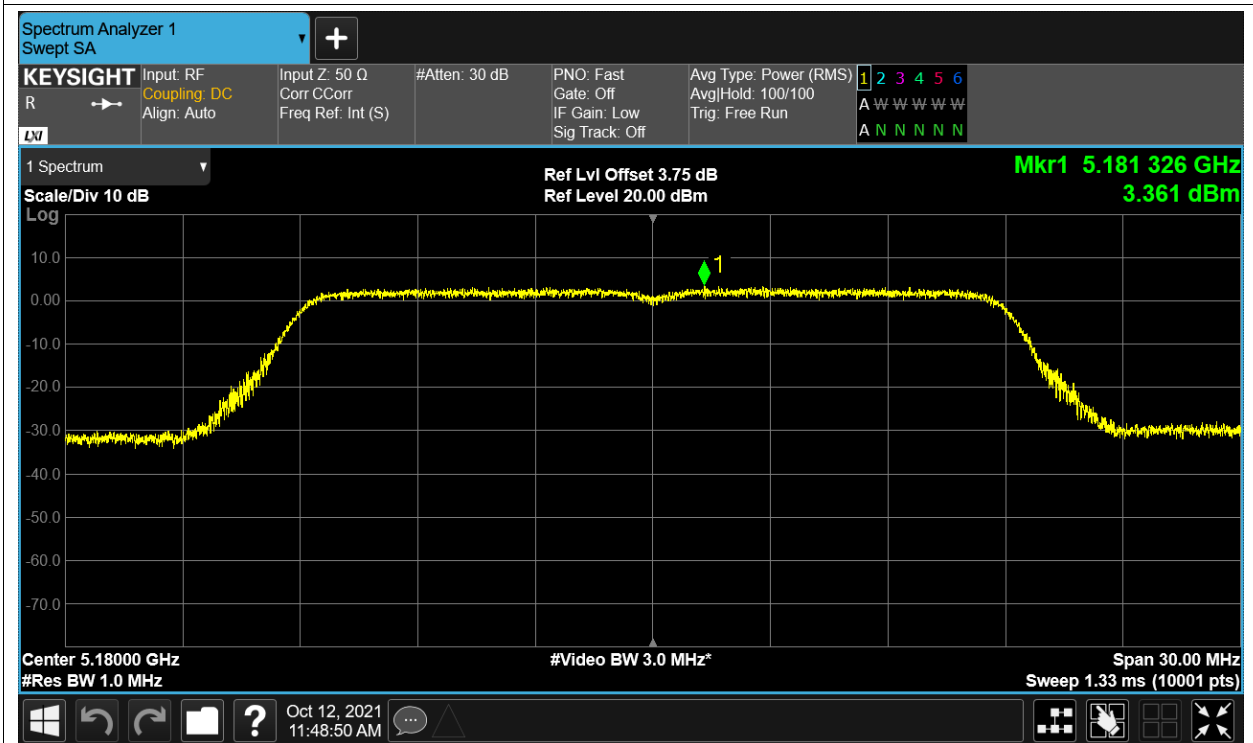
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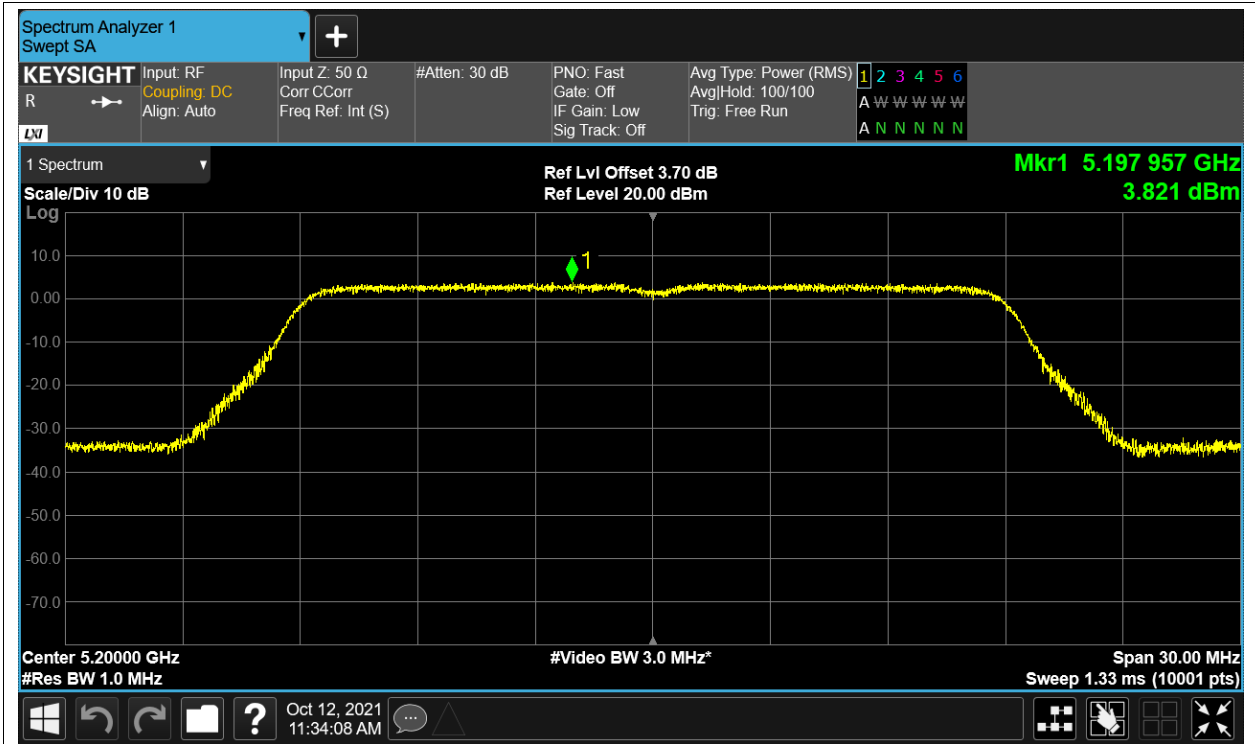


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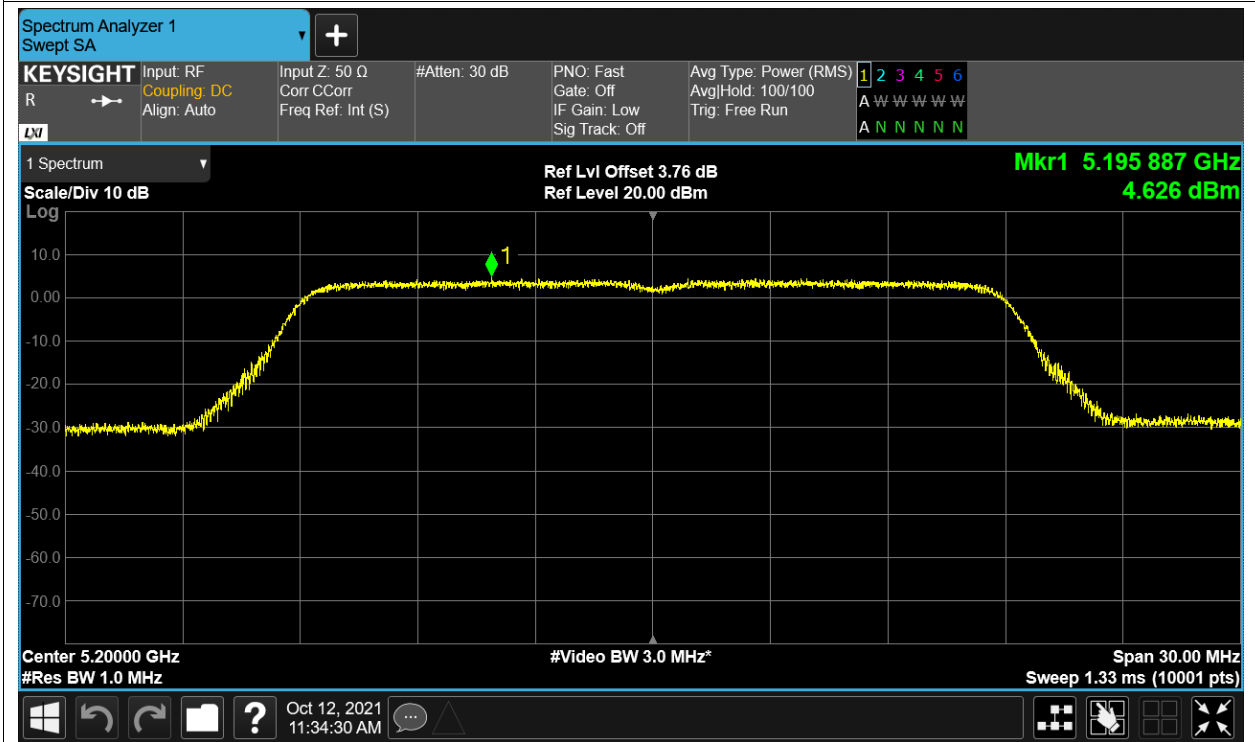


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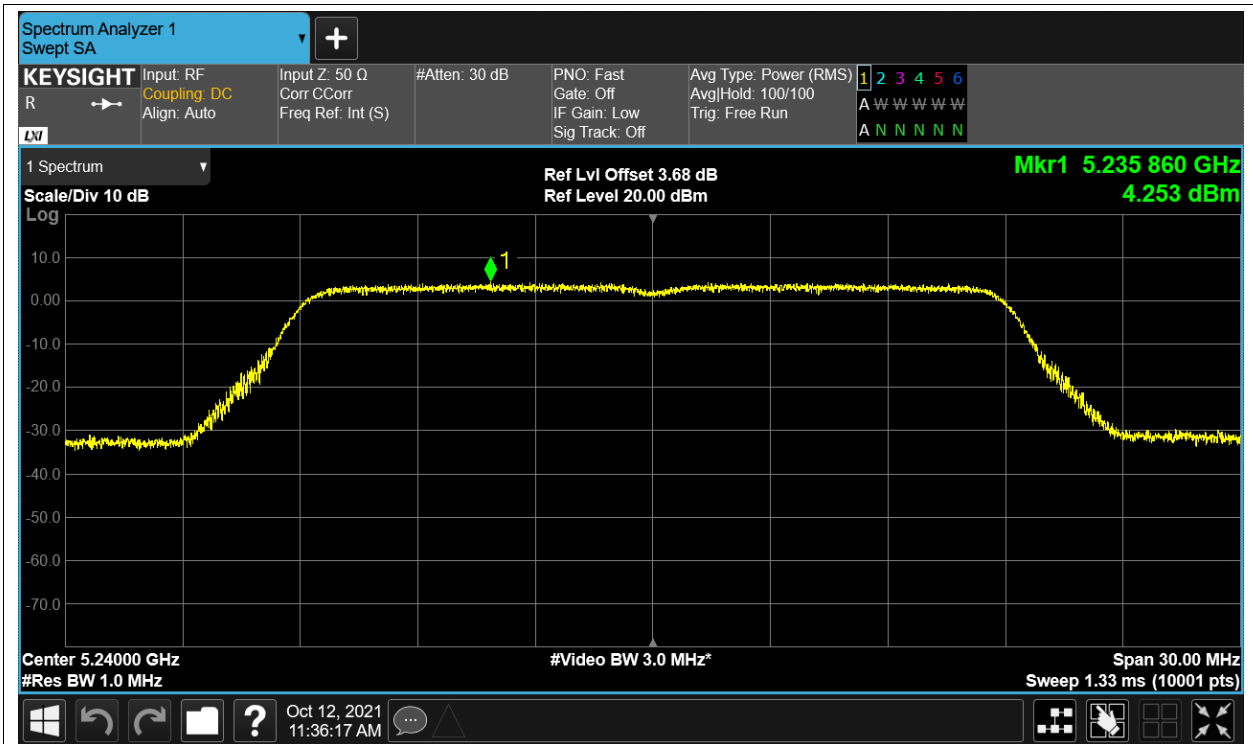




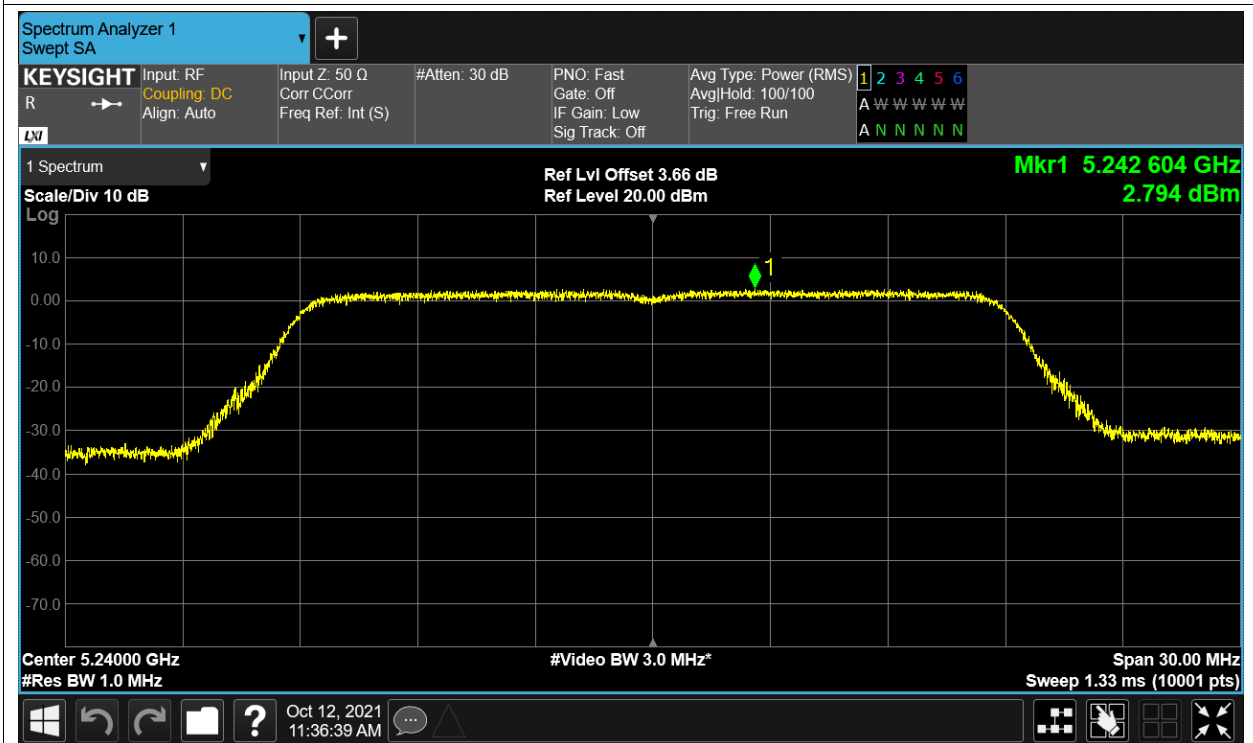
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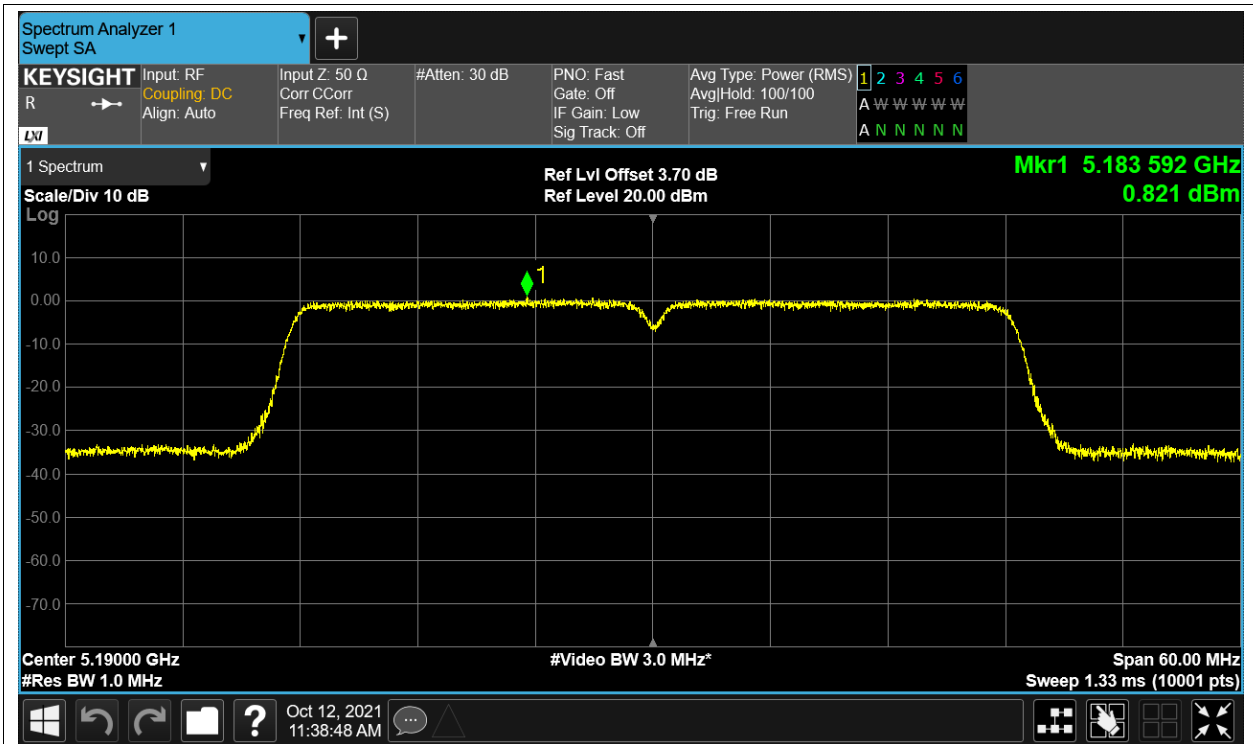
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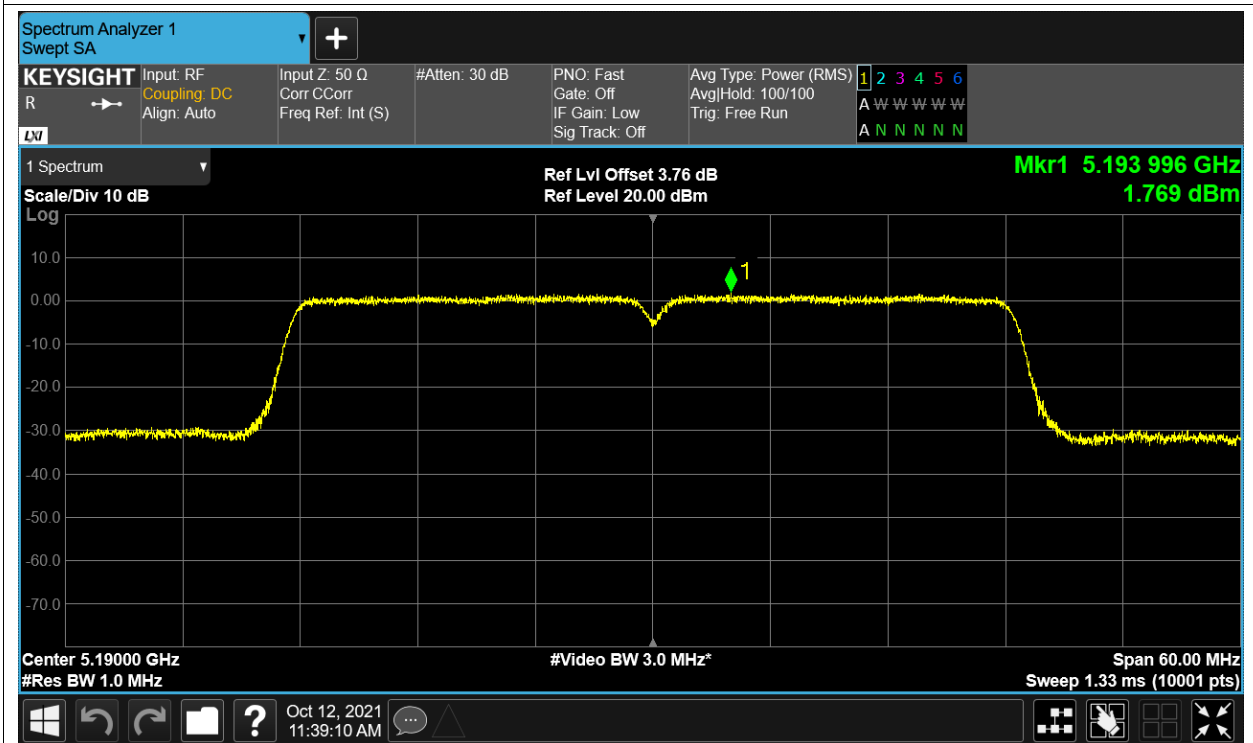
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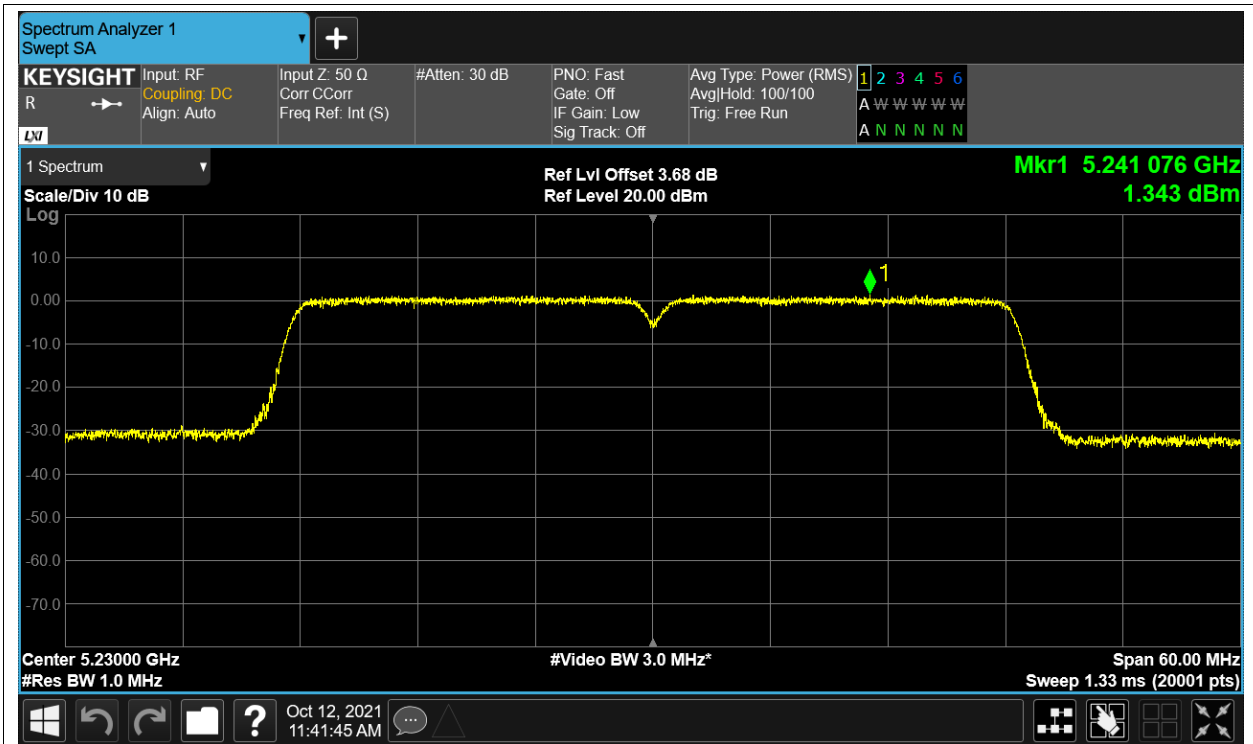
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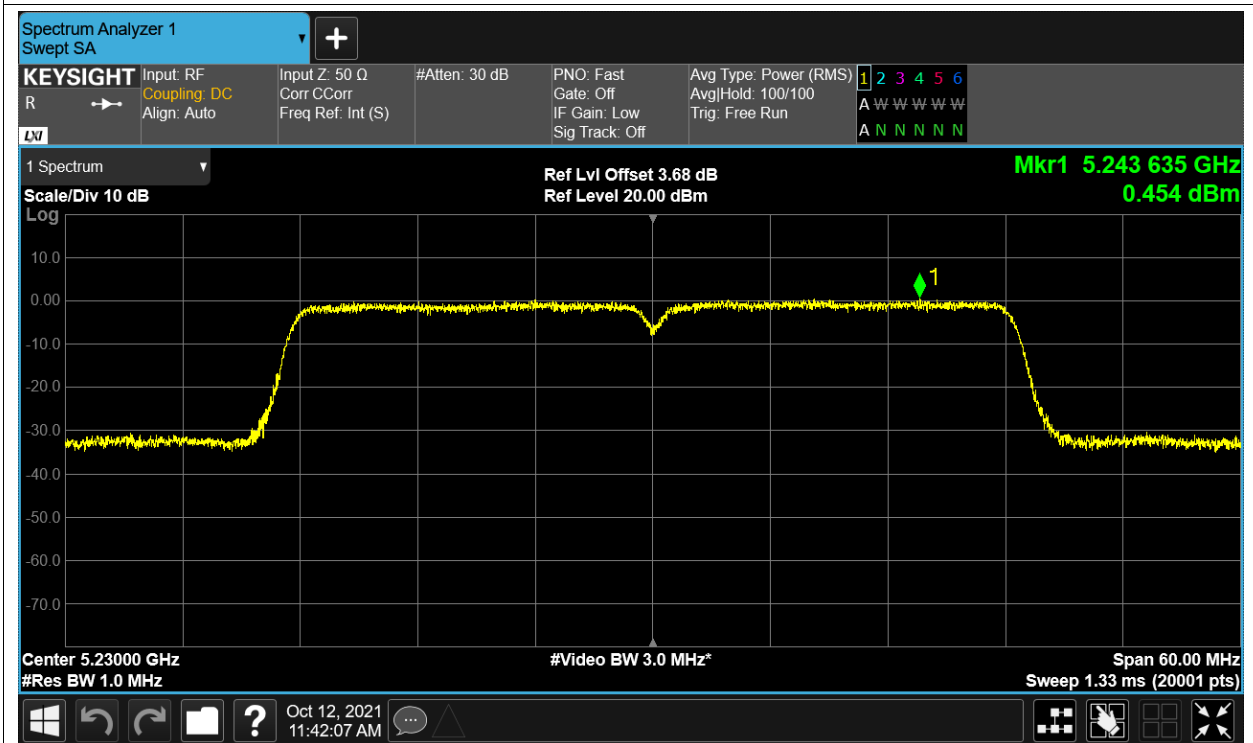
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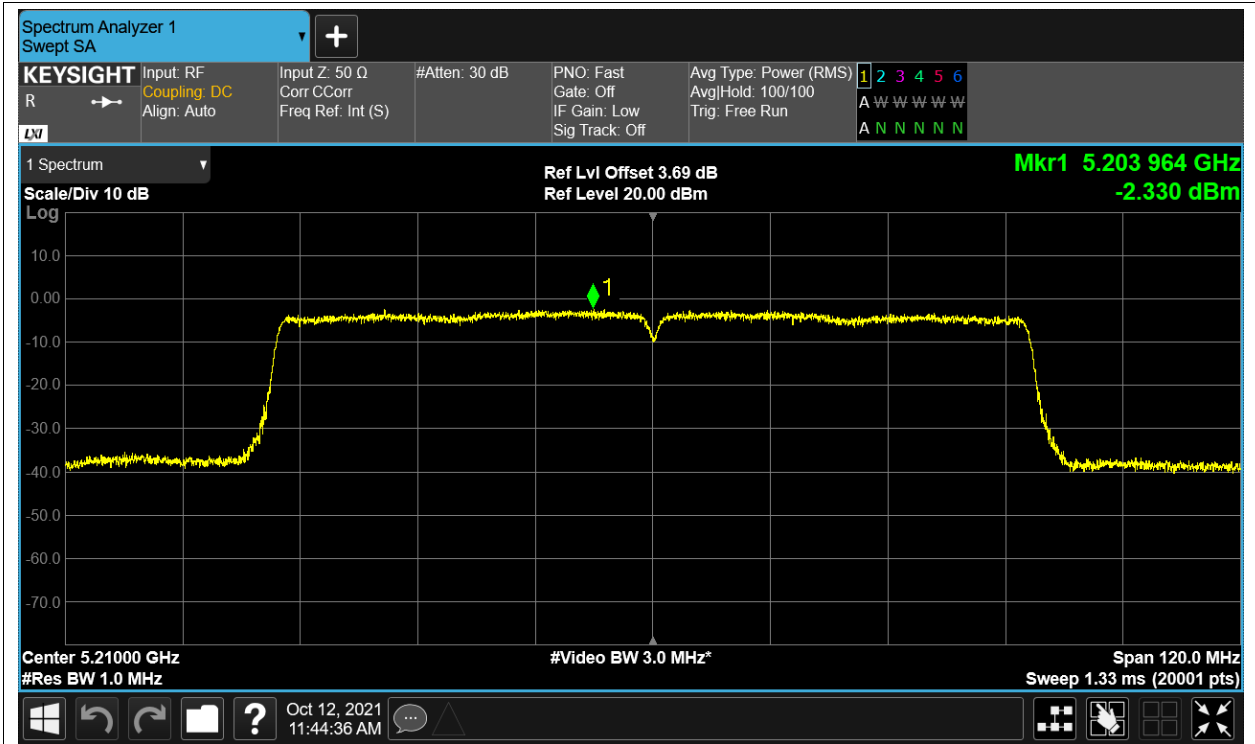
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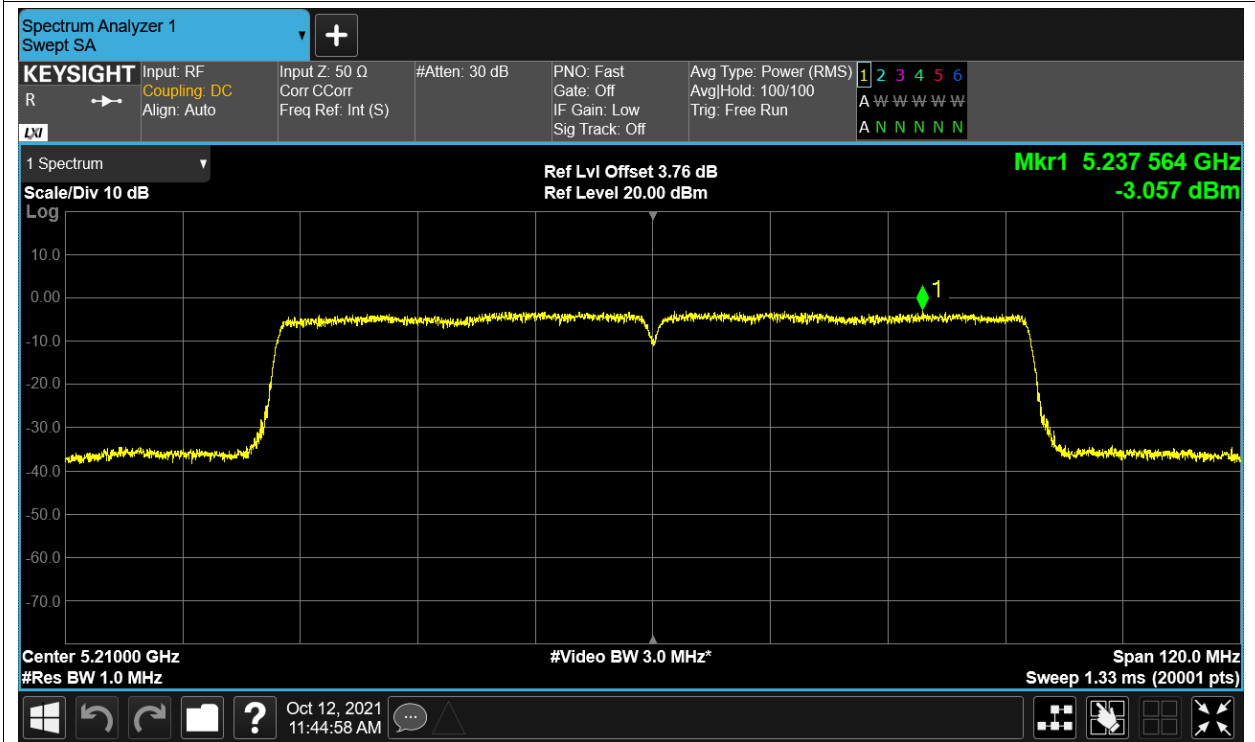
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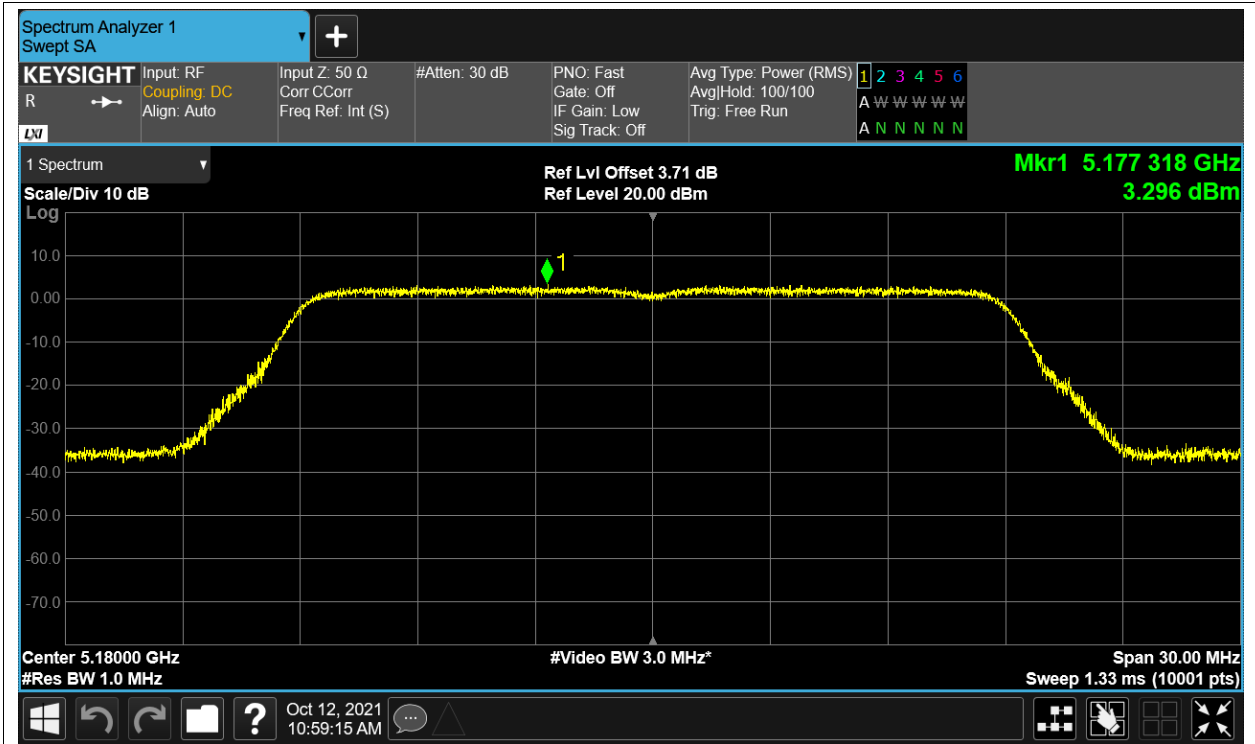
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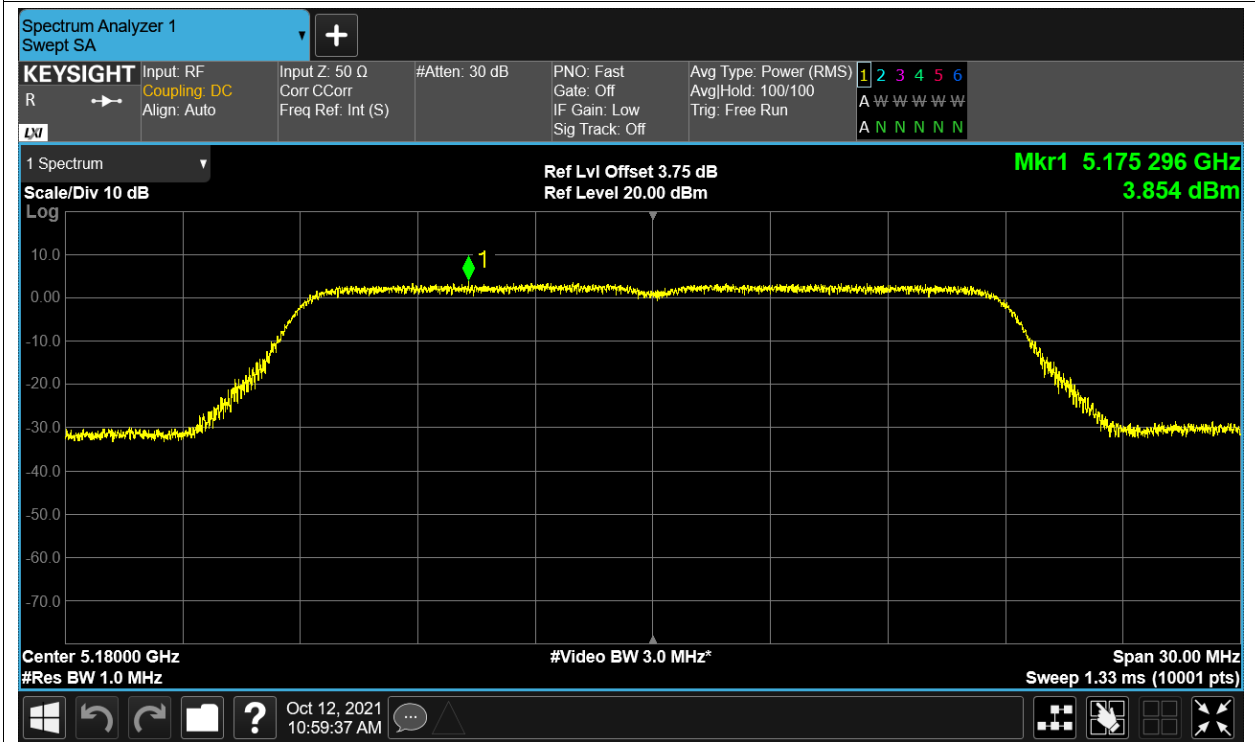
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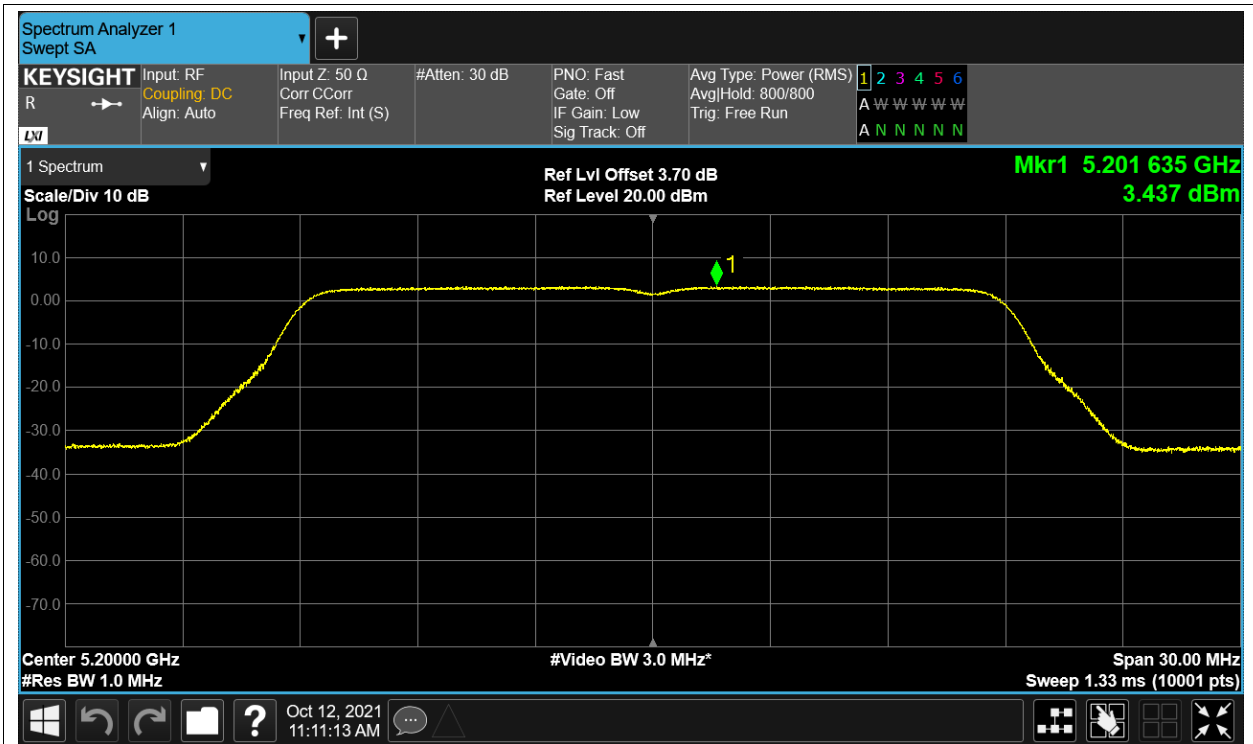
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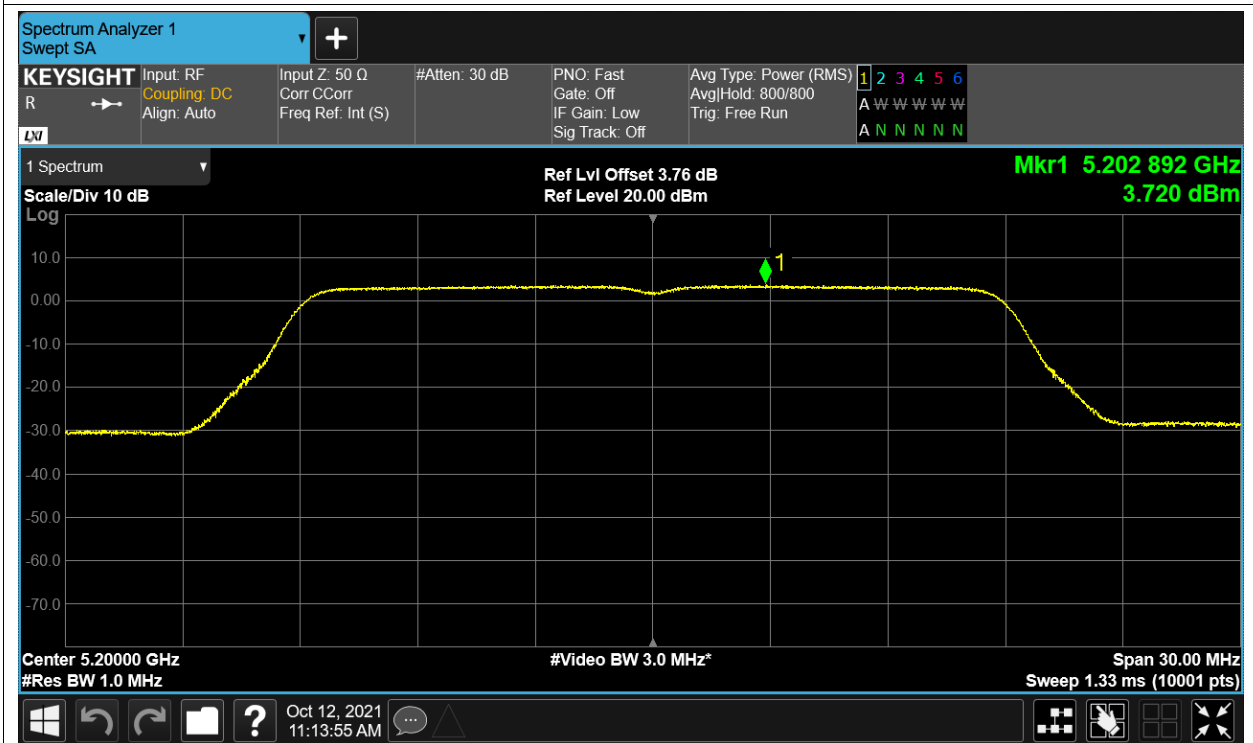
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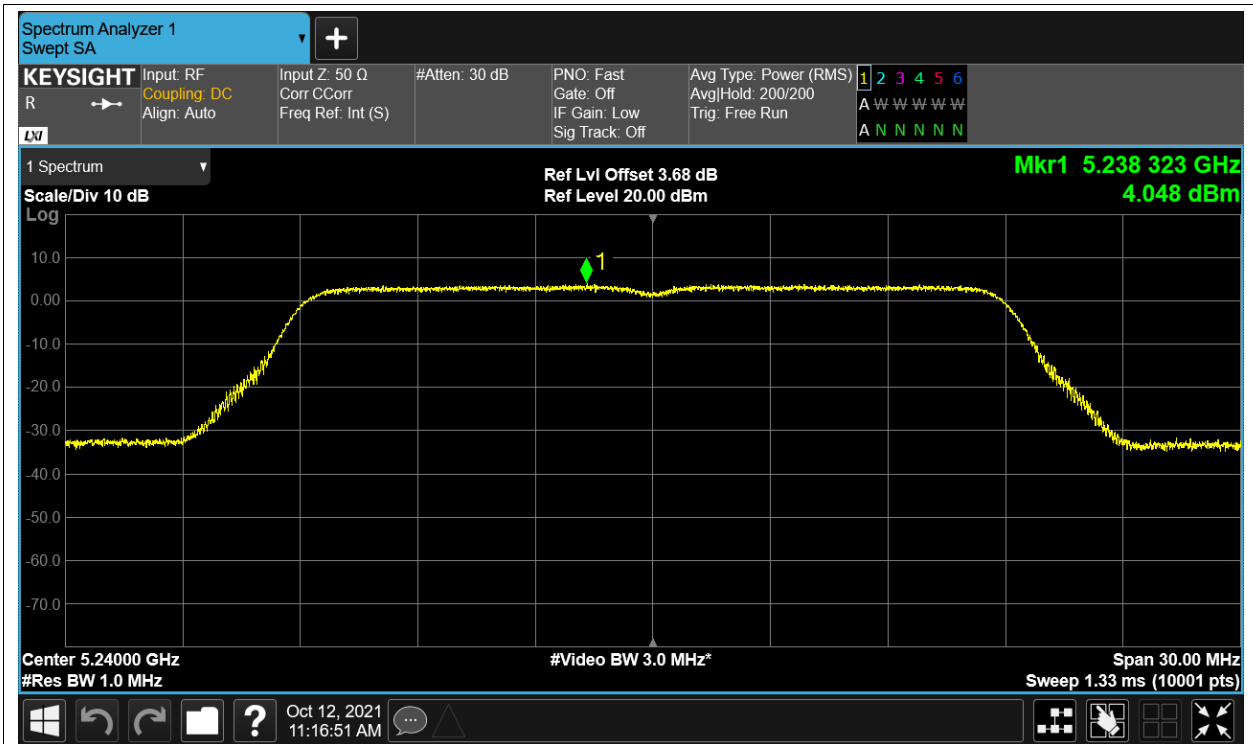
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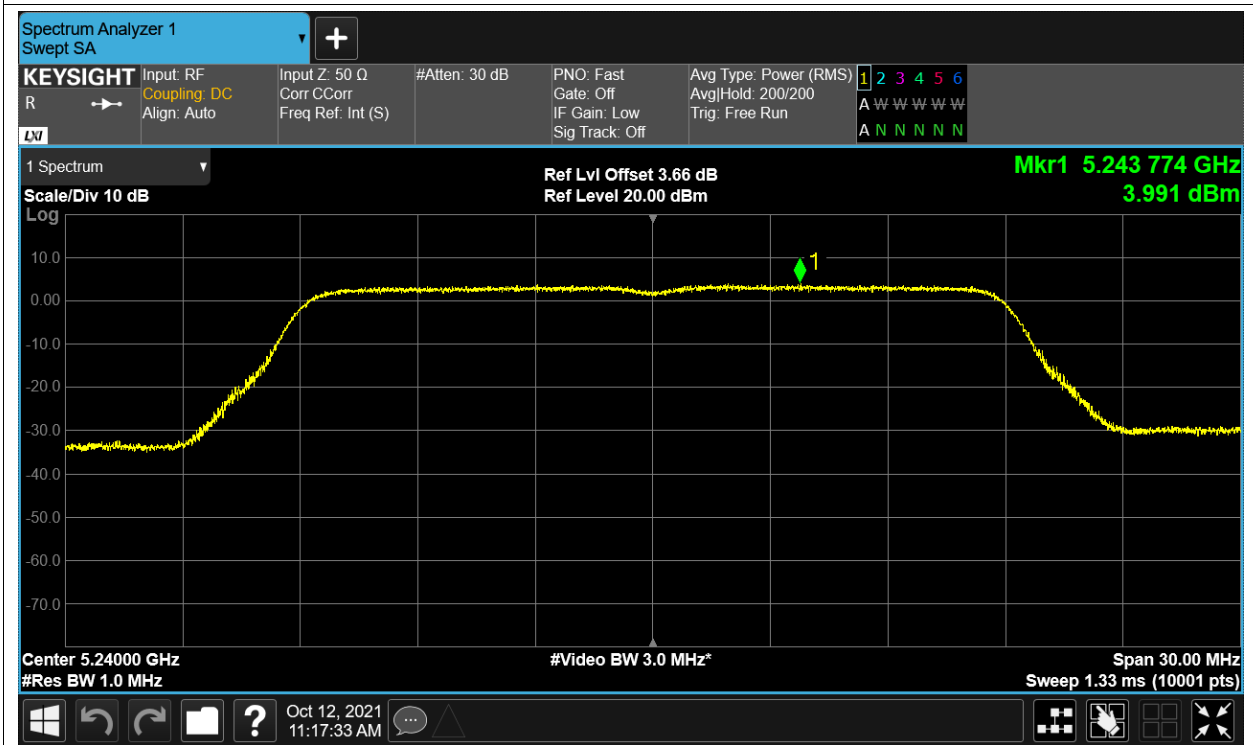
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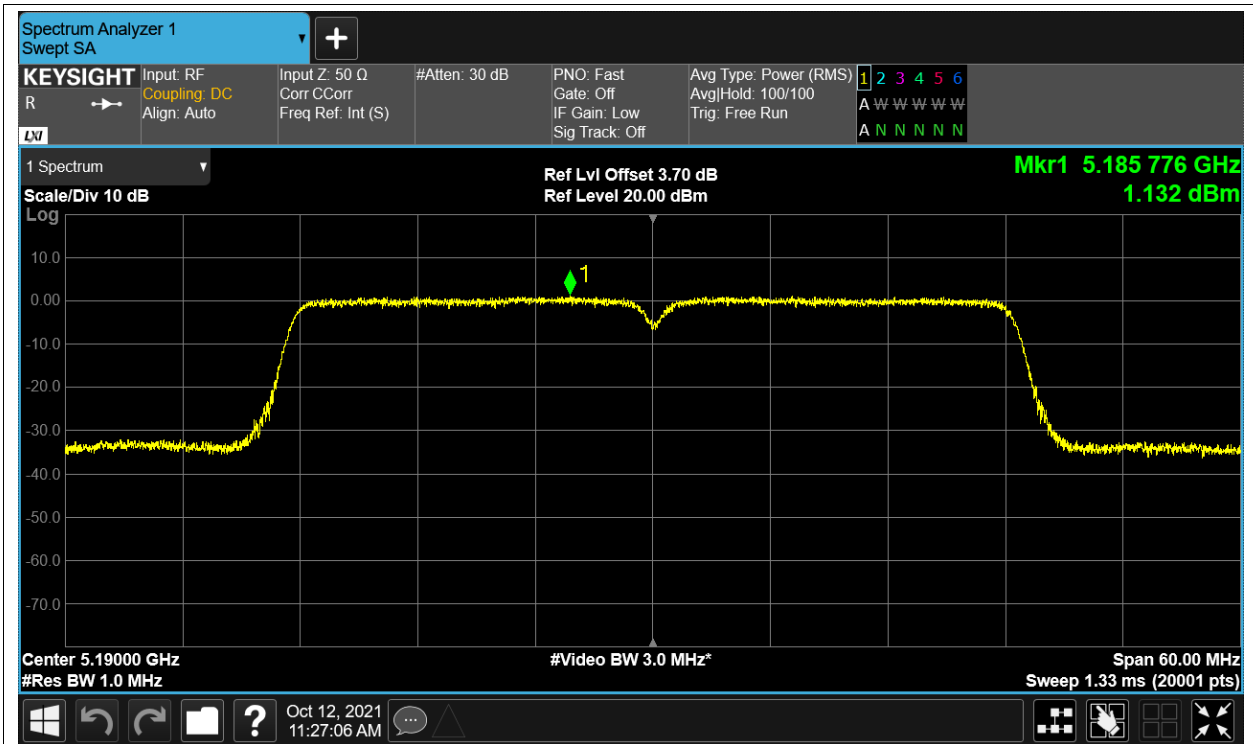


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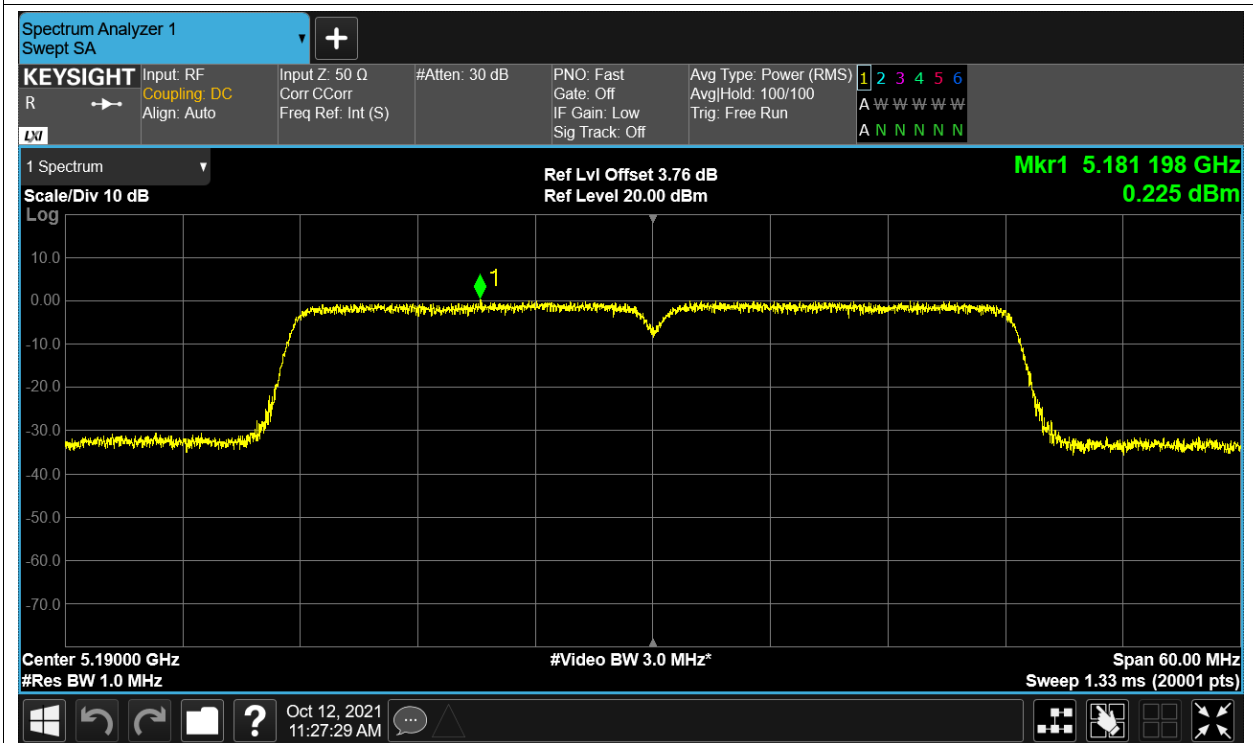


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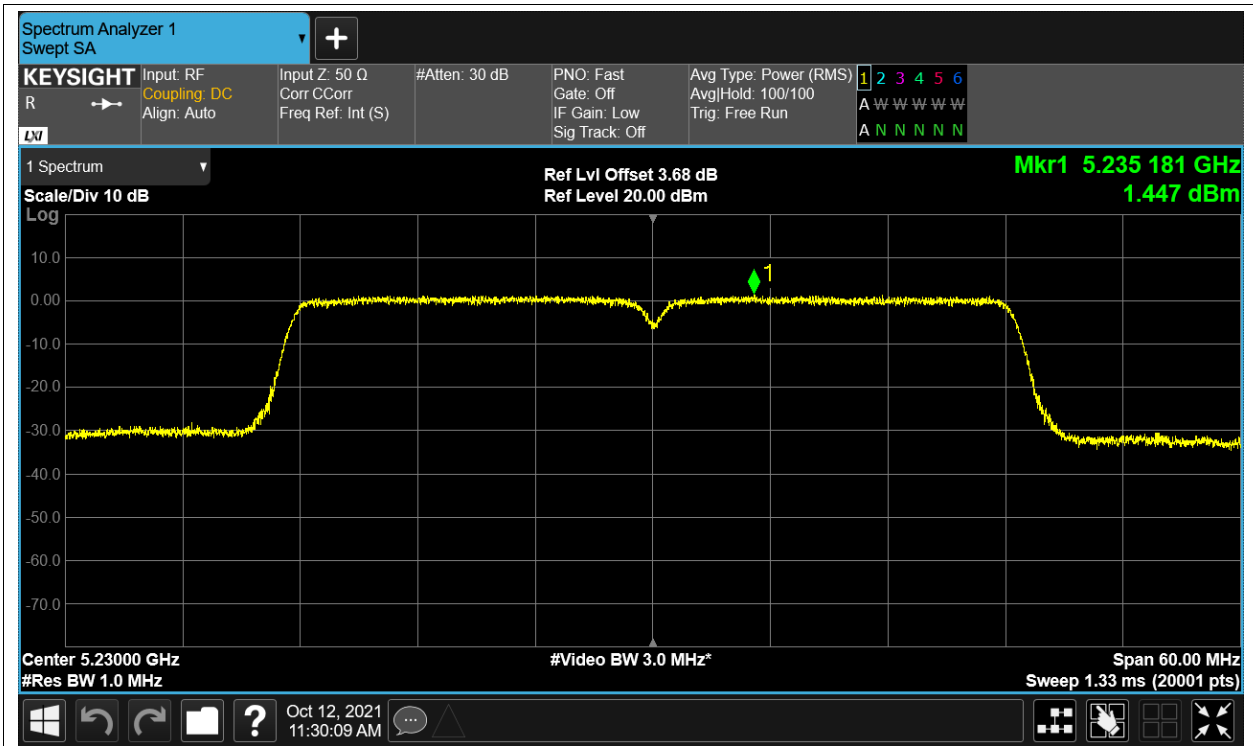




PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant1



PSD NVNT n40 5230MHz Ant2

