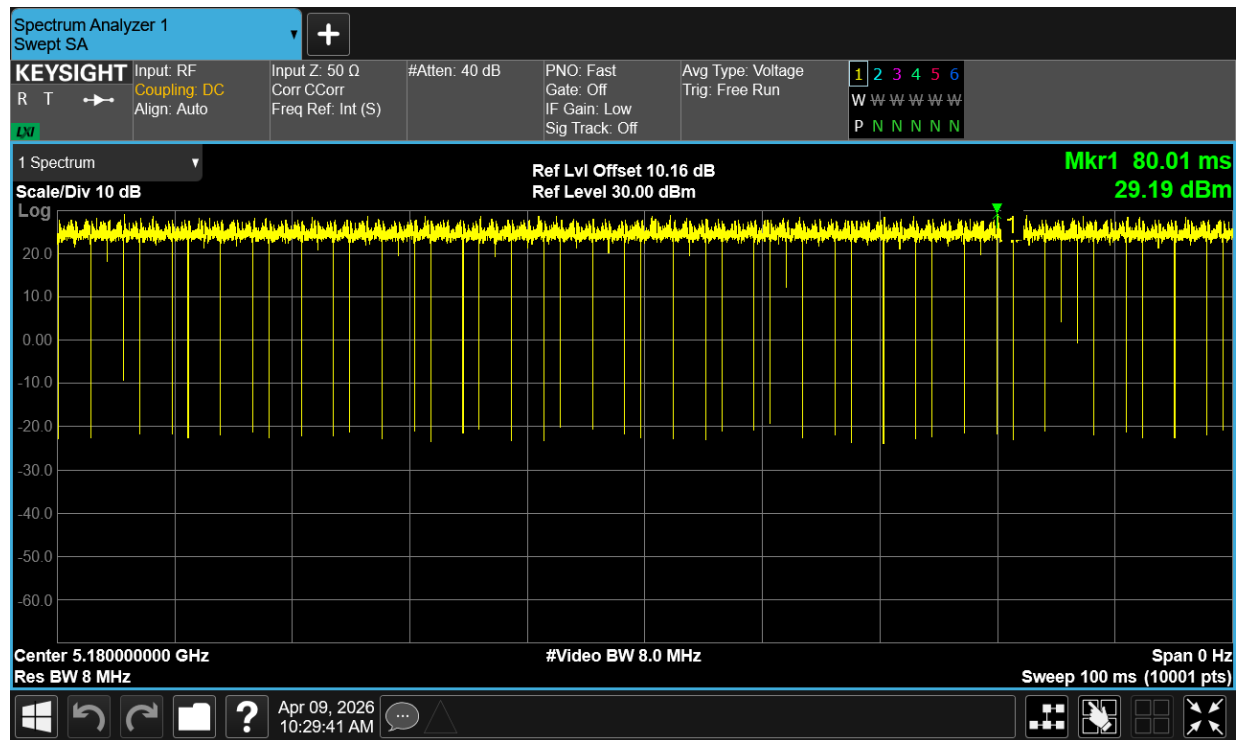
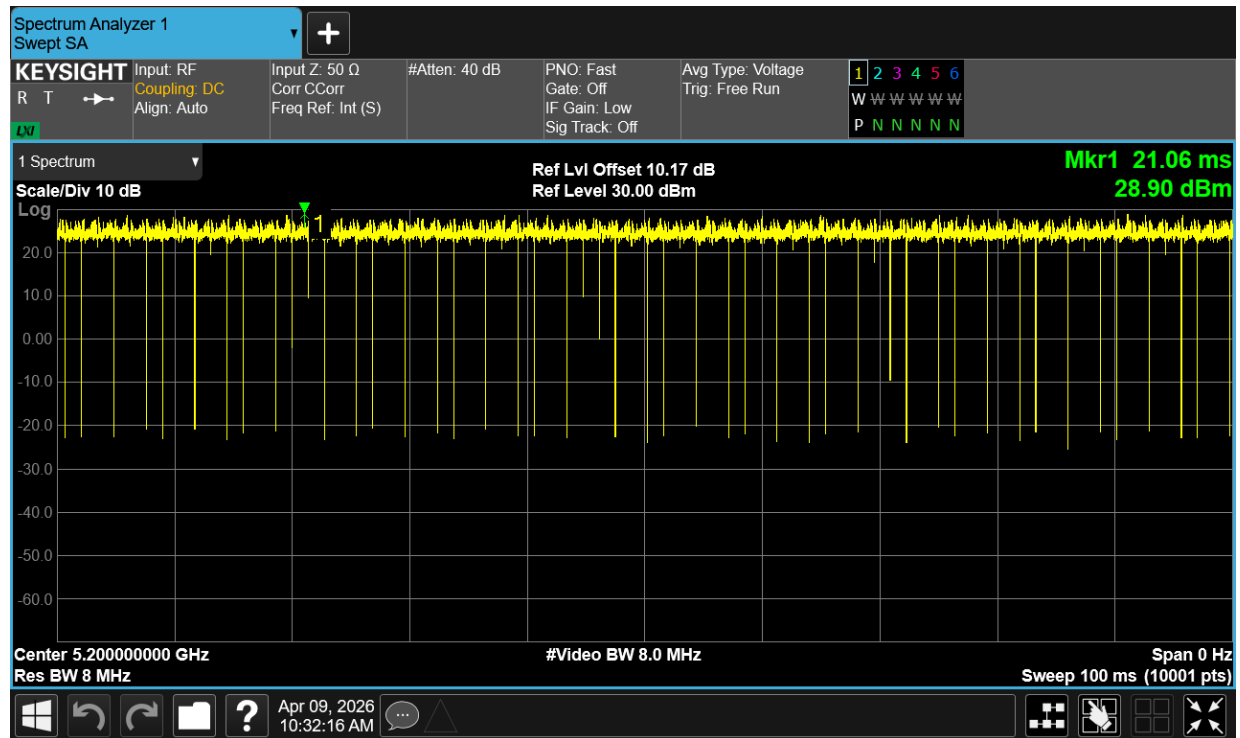


Test Graphs

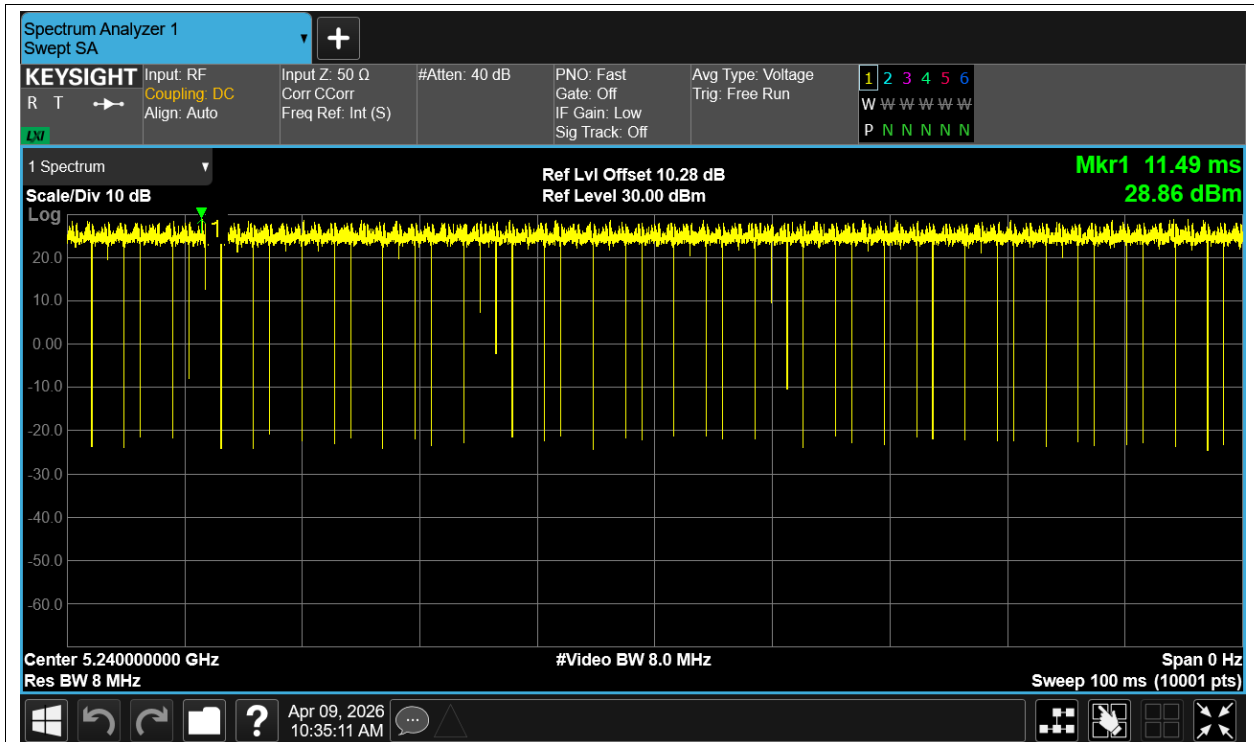
Duty Cycle NVNT a 5180MHz Ant1



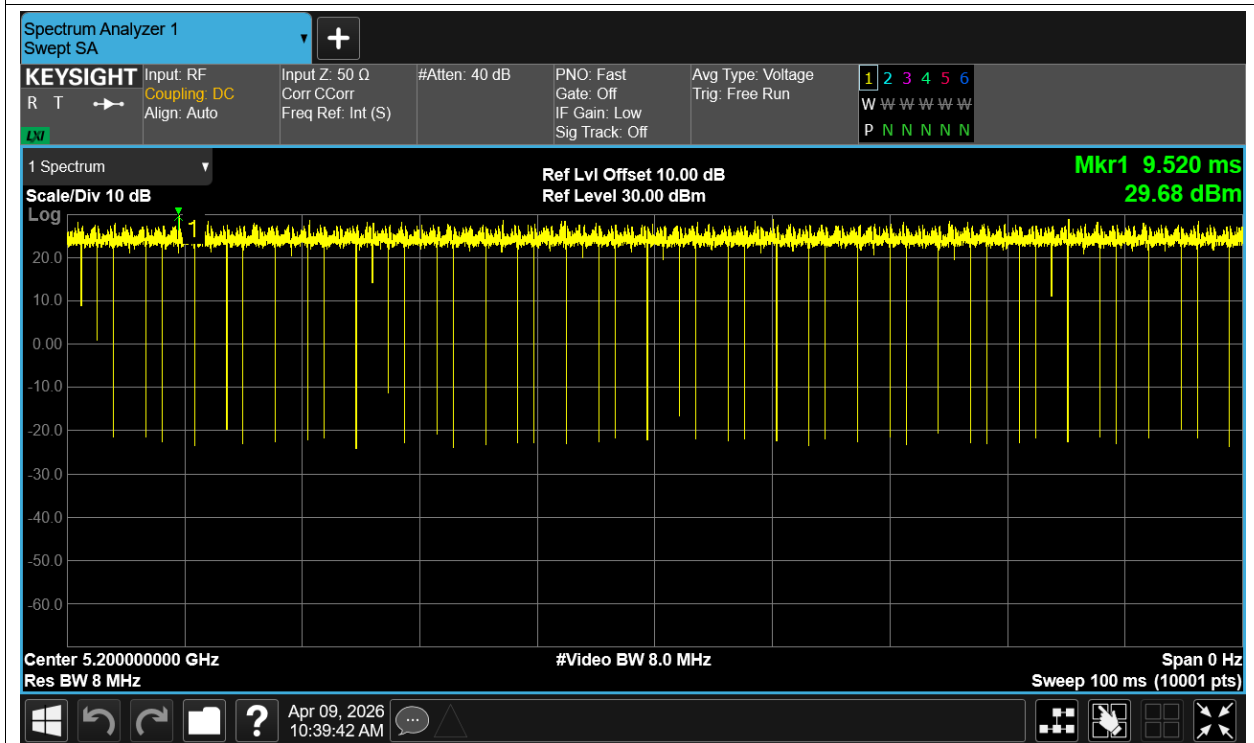
Duty Cycle NVNT a 5200MHz Ant1



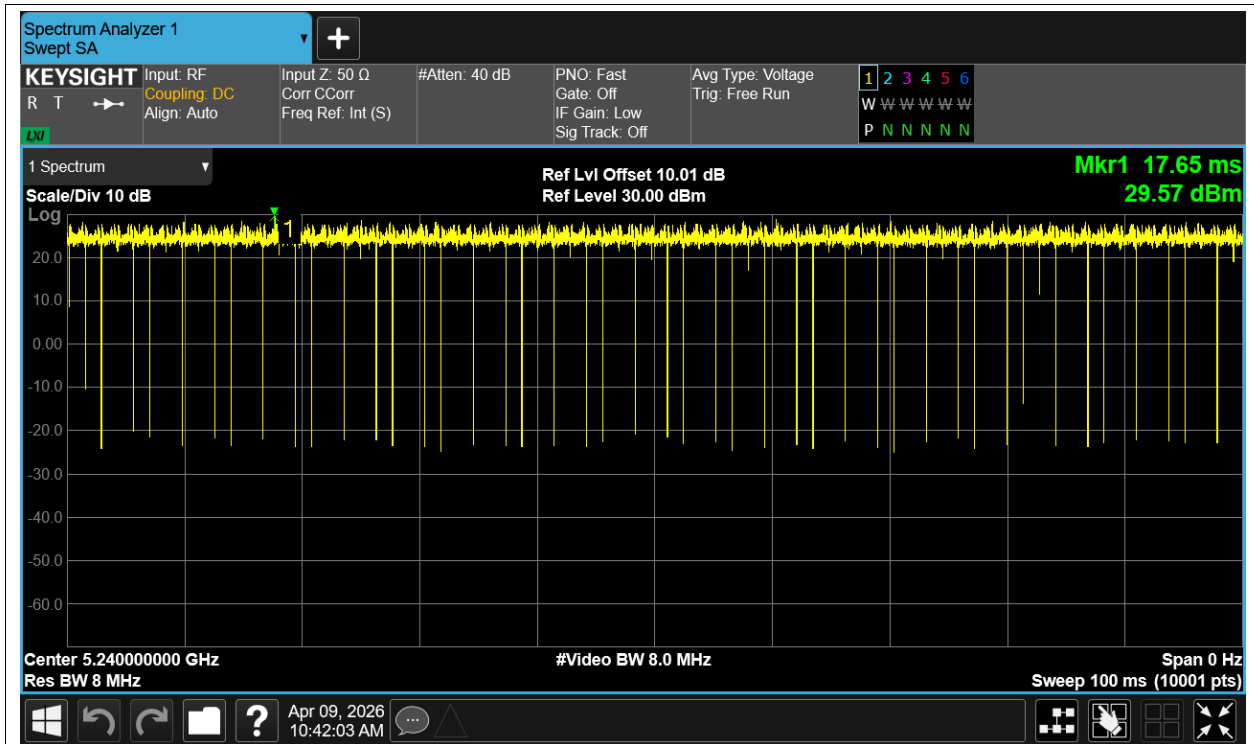
Duty Cycle NVNT a 5240MHz Ant1



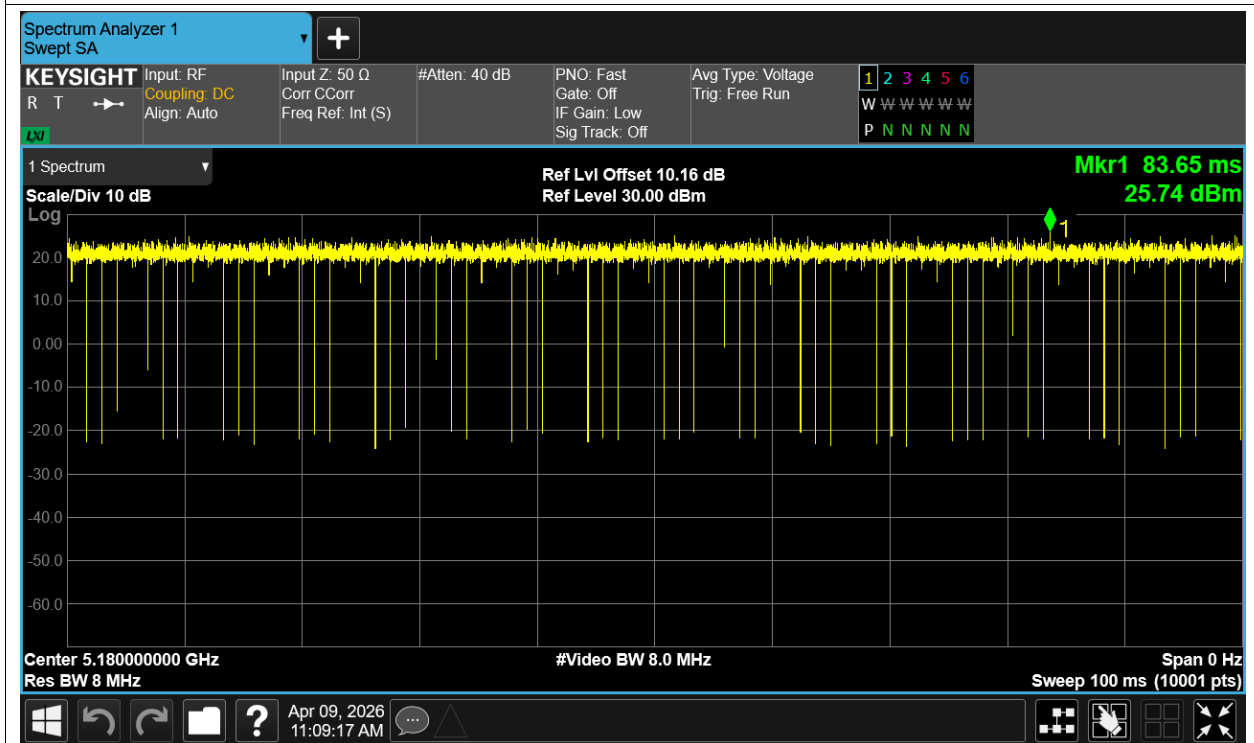
Duty Cycle NVNT a 5200MHz Ant2



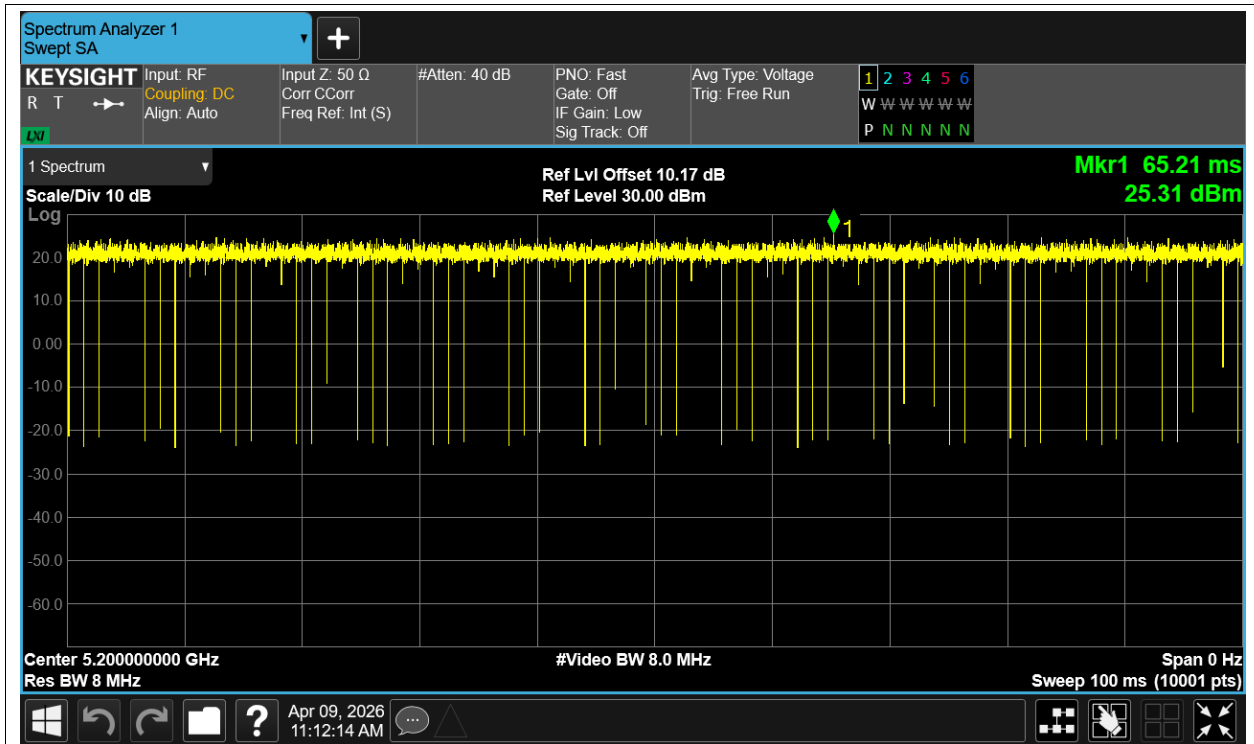
Duty Cycle NVNT a 5240MHz Ant2



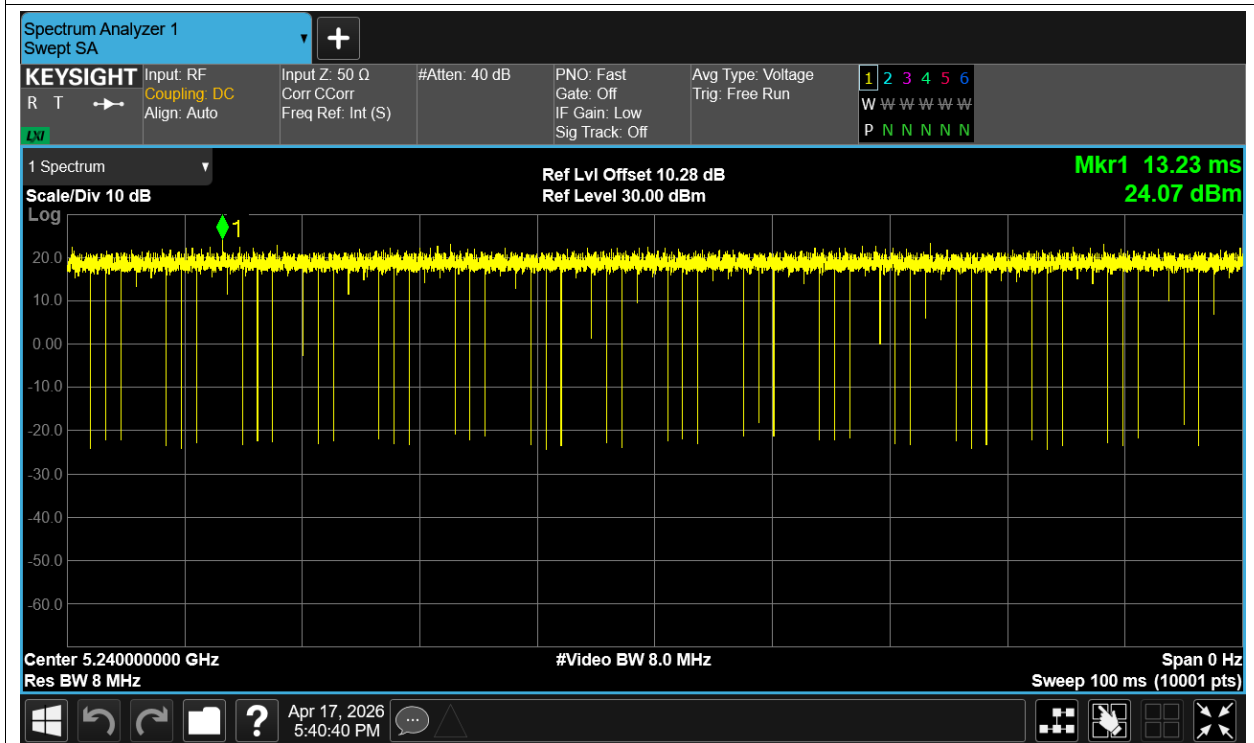
Duty Cycle NVNT ac20 5180MHz Sum



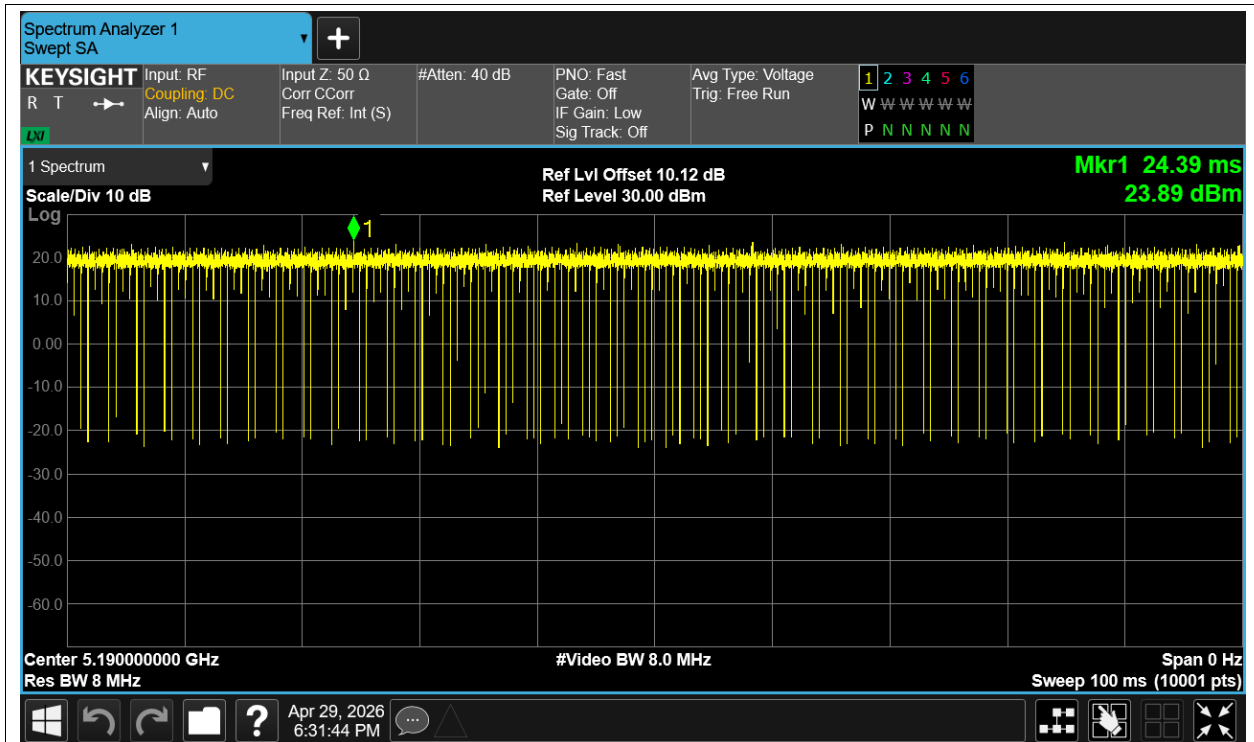
Duty Cycle NVNT ac20 5200MHz Sum



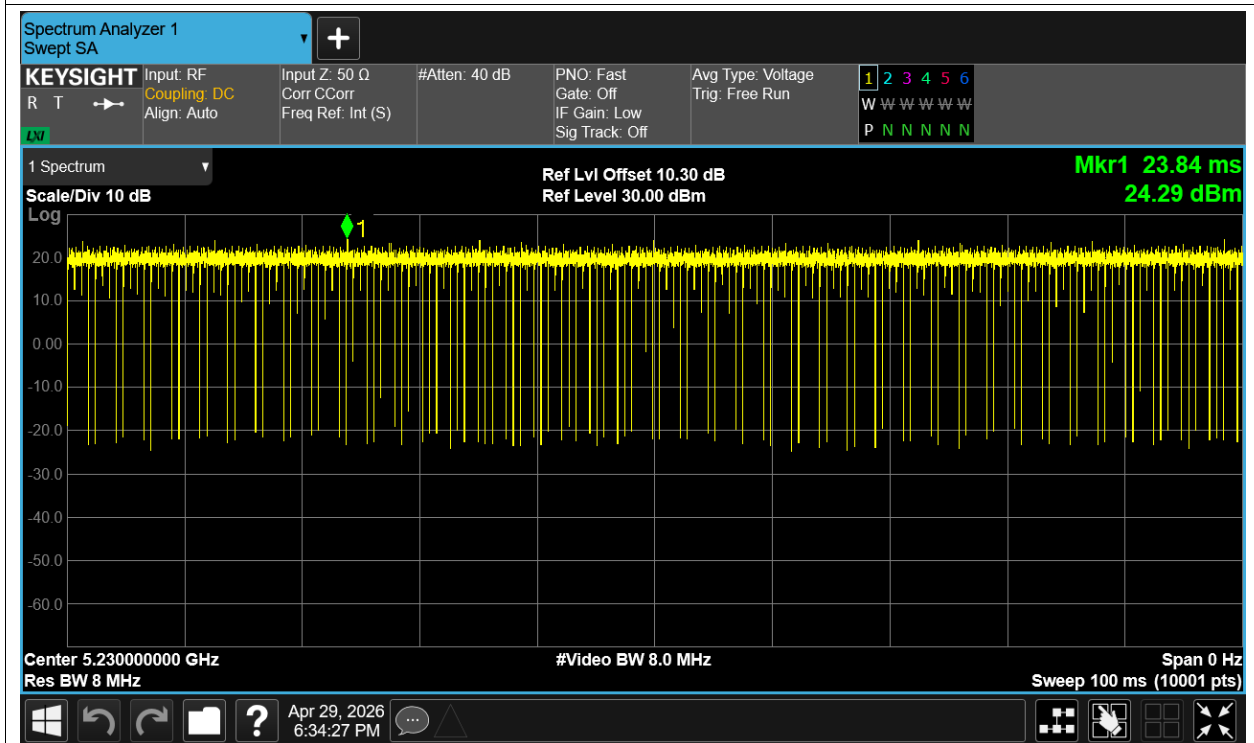
Duty Cycle NVNT ac20 5240MHz Sum



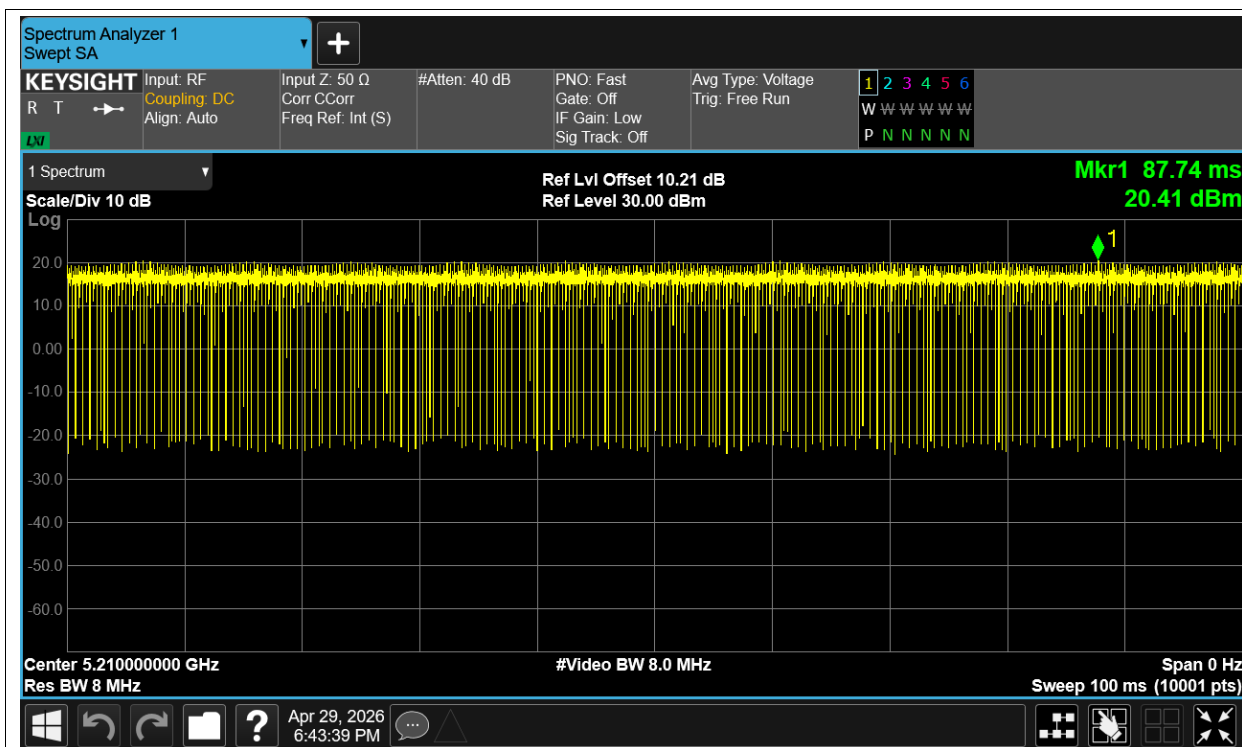
Duty Cycle NVNT ac40 5190MHz Sum



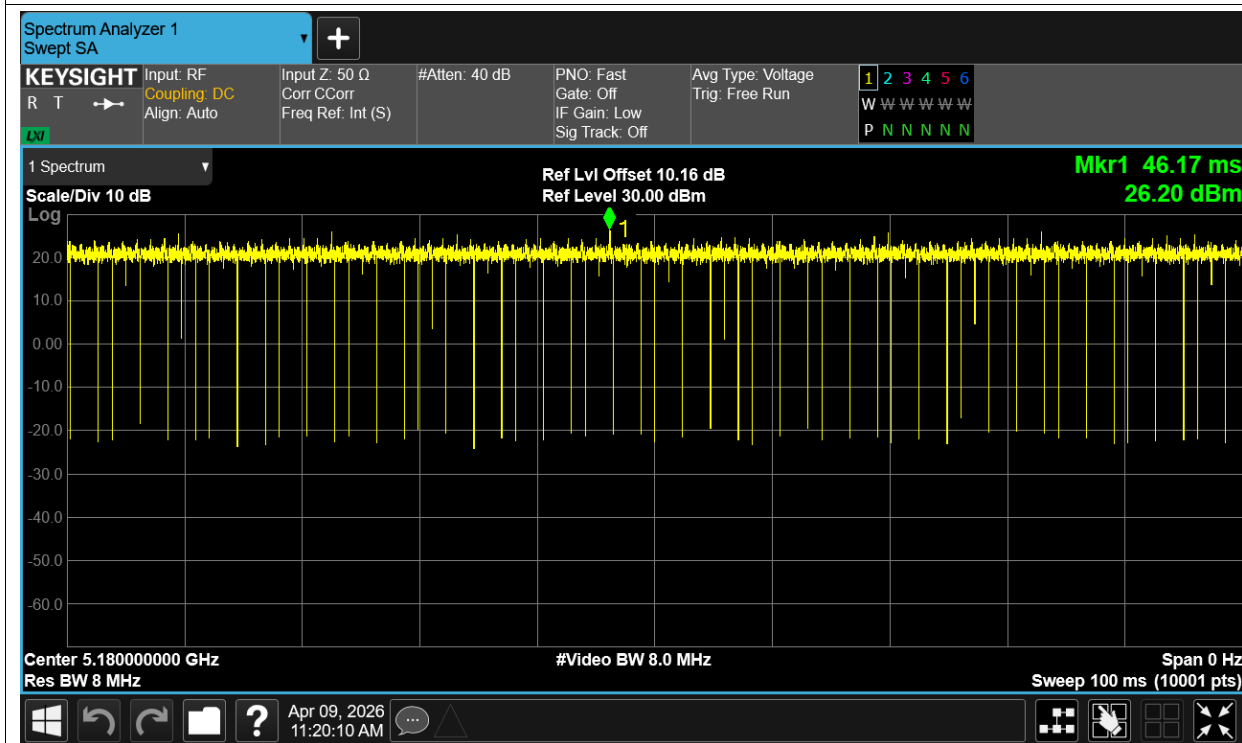
Duty Cycle NVNT ac40 5230MHz Sum



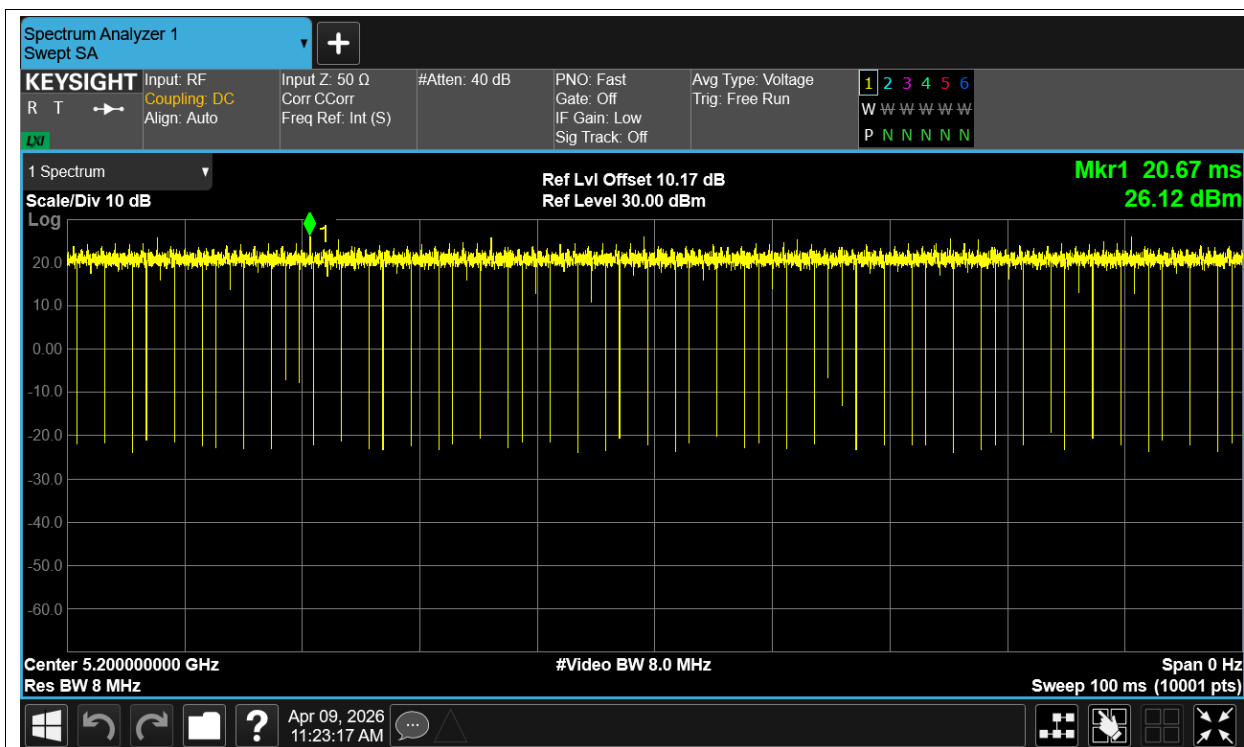
Duty Cycle NVNT ac80 5210MHz Sum



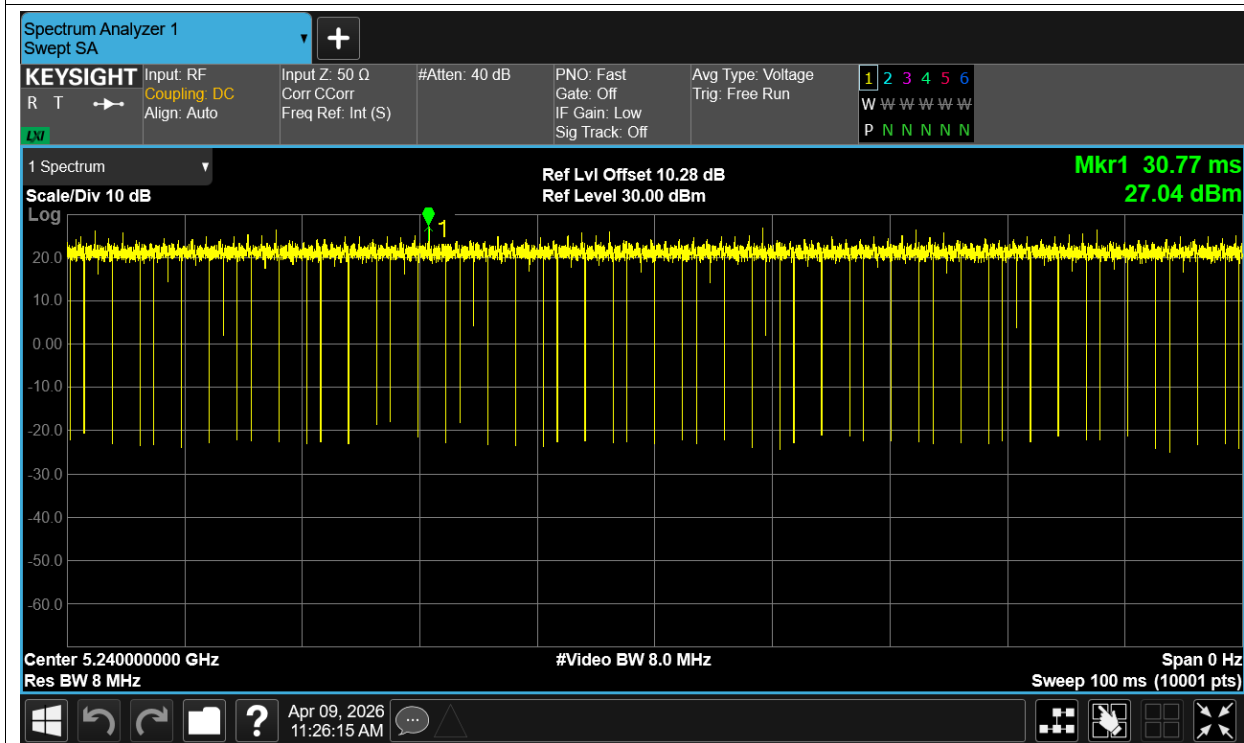
Duty Cycle NVNT ax20 5180MHz Sum



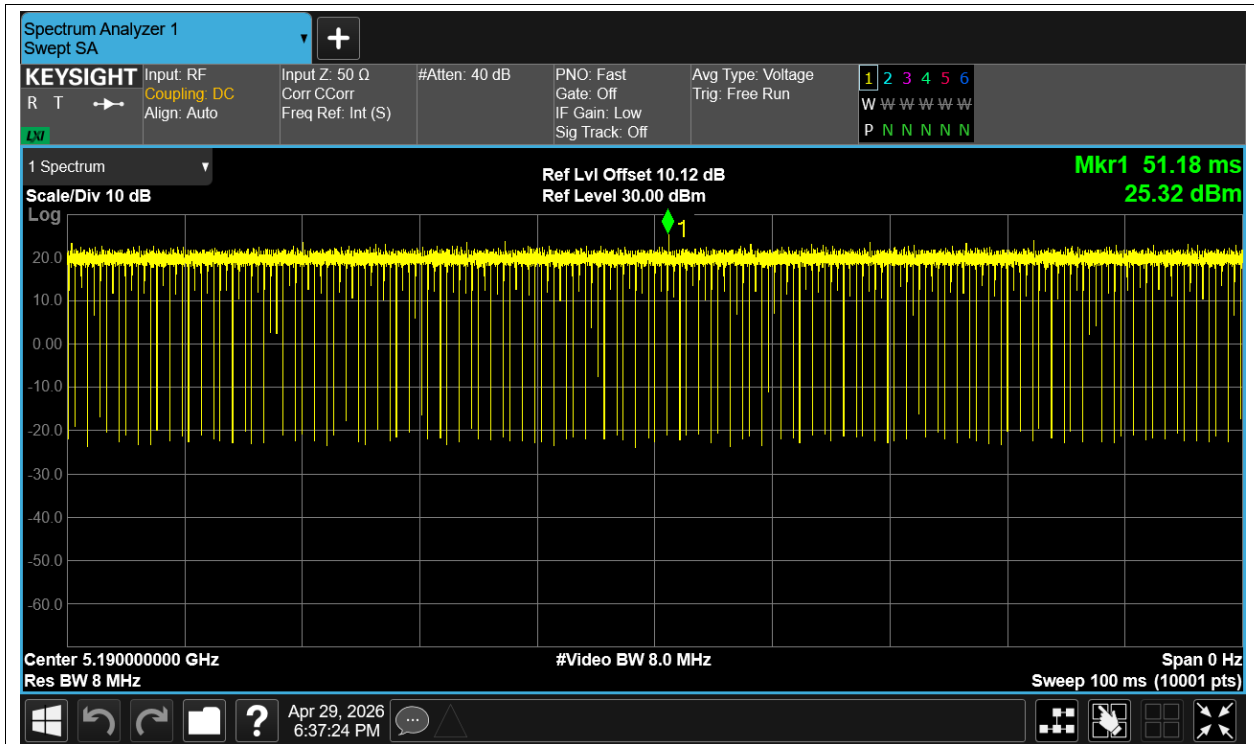
Duty Cycle NVNT ax20 5200MHz Sum



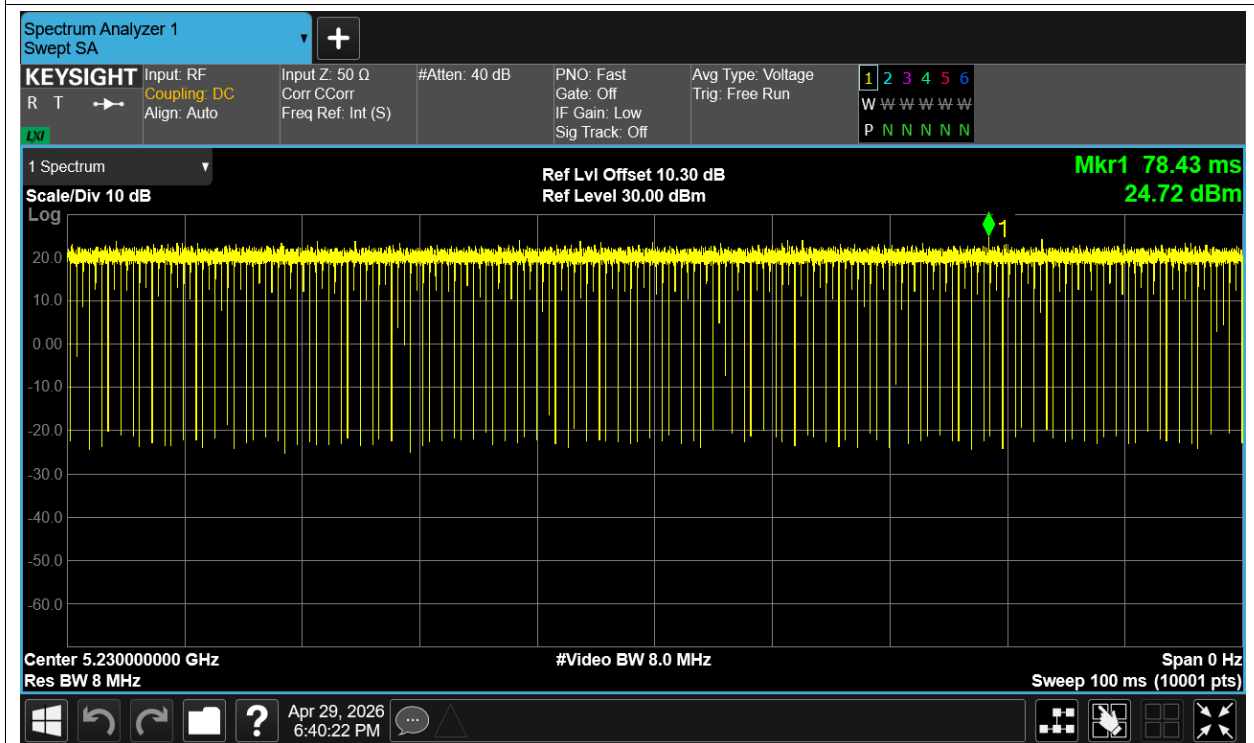
Duty Cycle NVNT ax20 5240MHz Sum



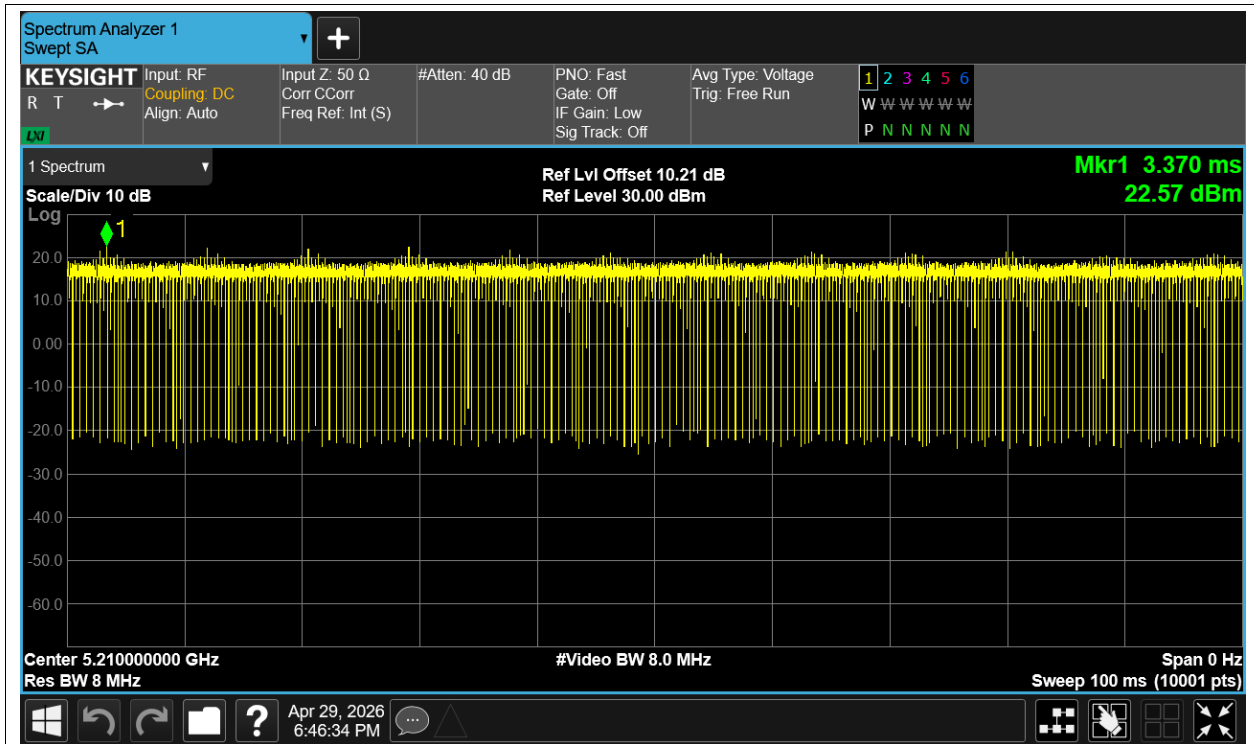
Duty Cycle NVNT ax40 5190MHz Sum



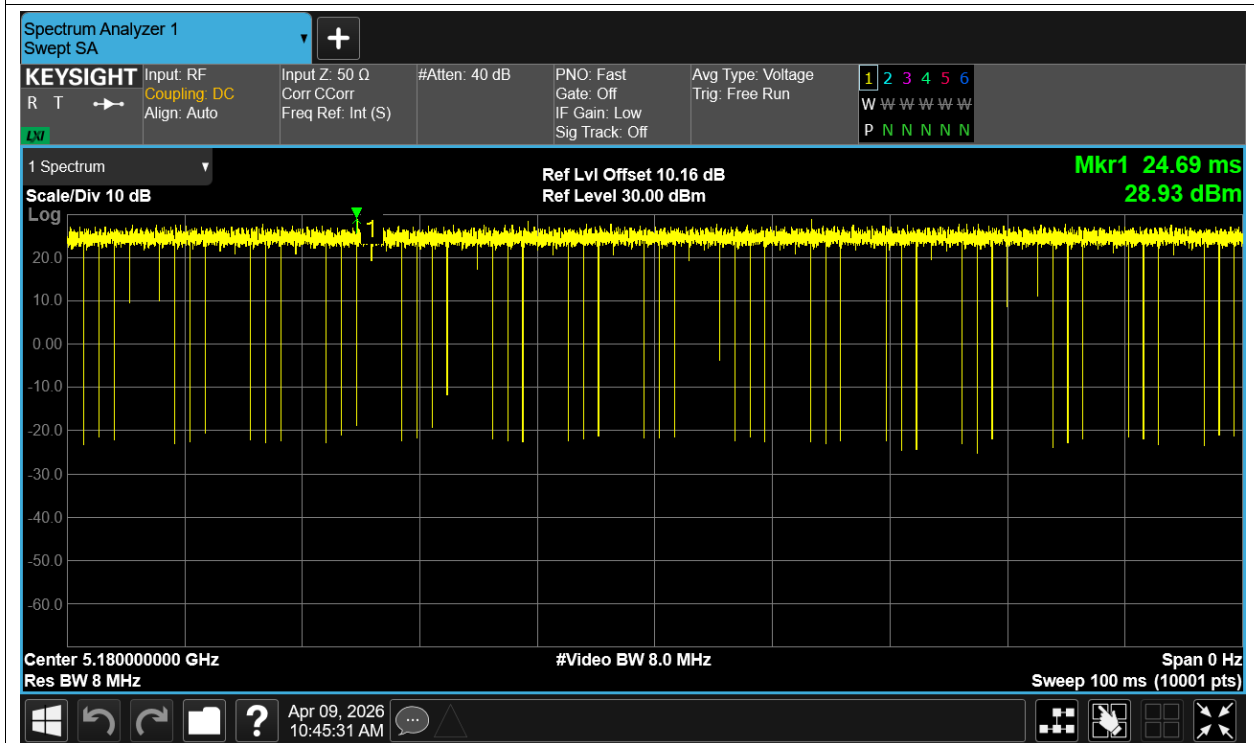
Duty Cycle NVNT ax40 5230MHz Sum



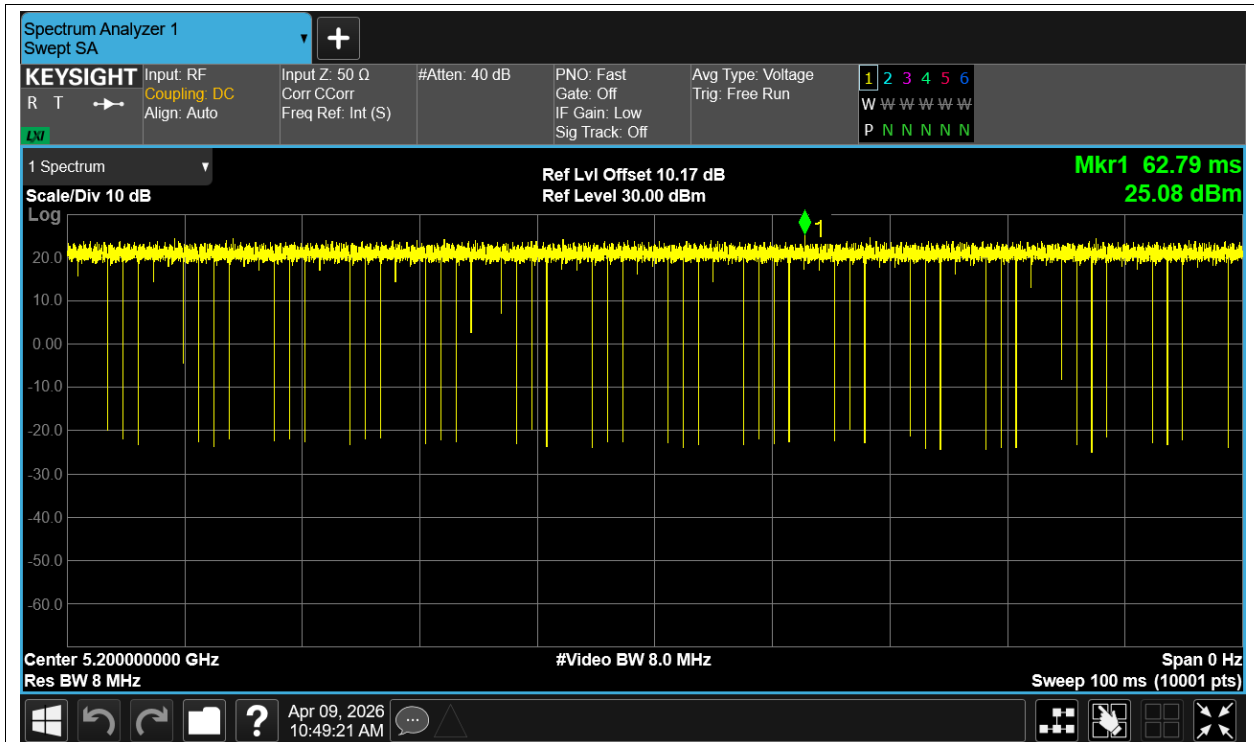
Duty Cycle NVNT ax80 5210MHz Sum



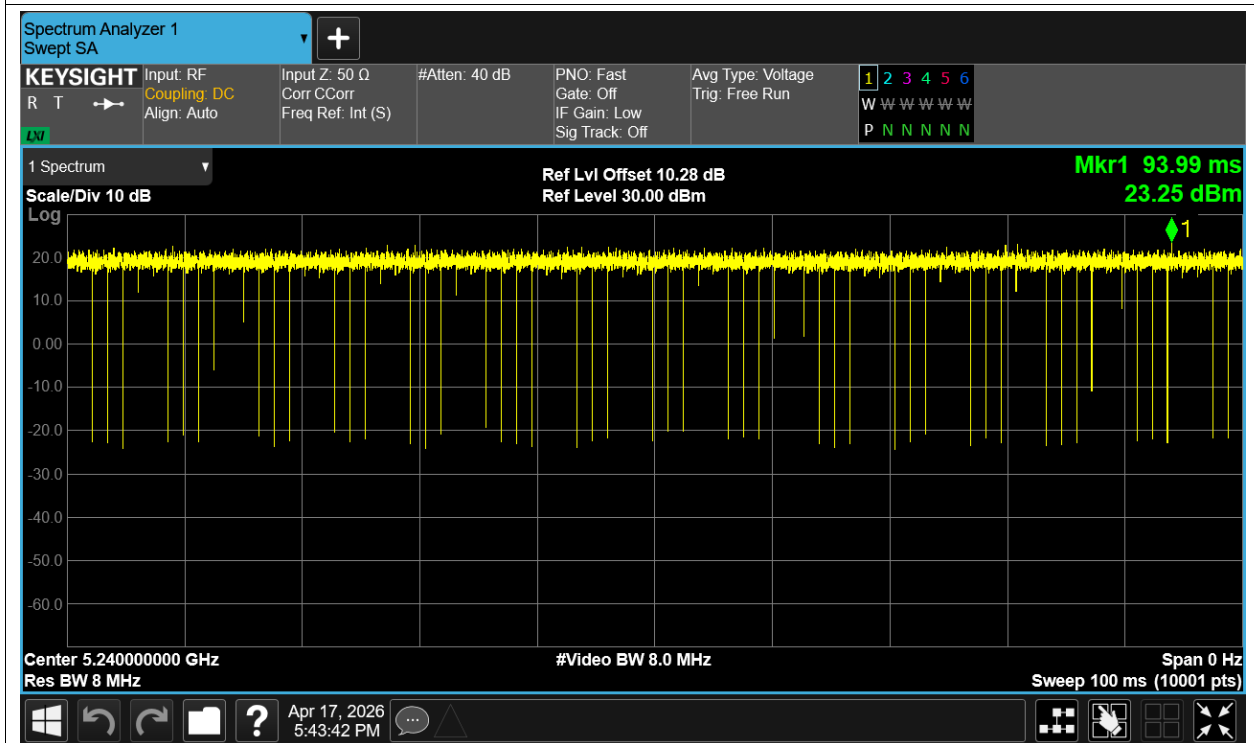
Duty Cycle NVNT n20 5180MHz Sum



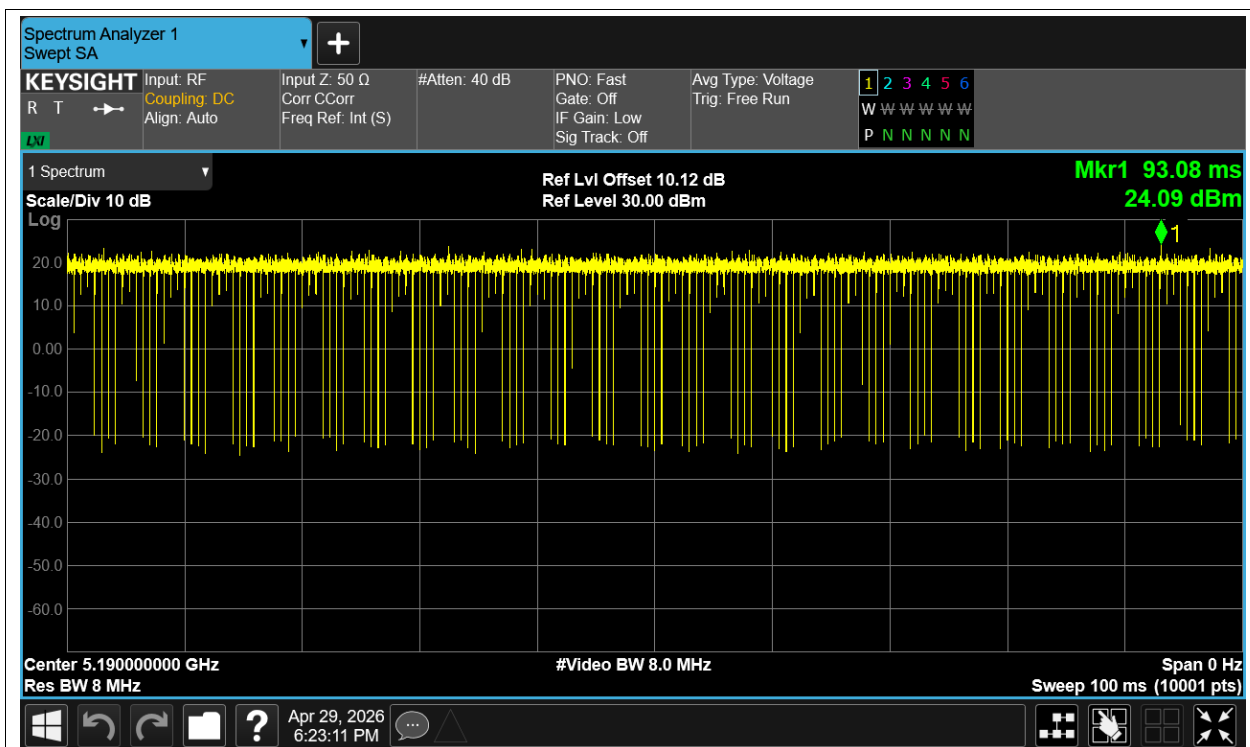
Duty Cycle NVNT n20 5200MHz Sum



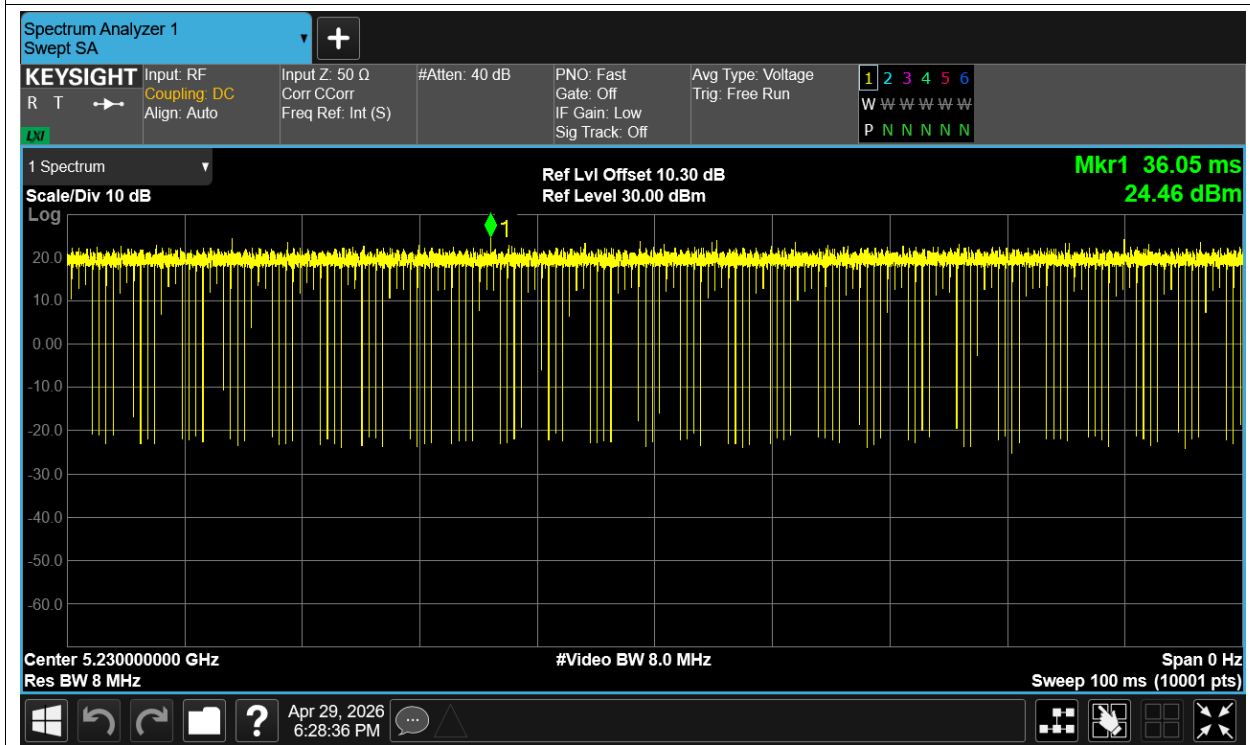
Duty Cycle NVNT n20 5240MHz Sum



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	20.75	0.02	20.77	24	Pass
NVNT	a	5200	Ant1	20.92	0.02	20.94	24	Pass
NVNT	a	5240	Ant1	20.91	0.02	20.93	24	Pass
NVNT	a	5180	Ant2	20.78	0.02	20.8	24	Pass
NVNT	a	5200	Ant2	20.46	0.02	20.48	24	Pass
NVNT	a	5240	Ant2	20.94	0.02	20.96	24	Pass
NVNT	ac20	5180	Ant1	17.13	0.02	17.15	22.47	Pass
NVNT	ac20	5180	Ant2	17.04	0.02	17.06	22.47	Pass
NVNT	ac20	5180	Sum	20.096	0.02	20.116	22.47	Pass
NVNT	ac20	5200	Ant1	17.34	0.02	17.36	22.47	Pass
NVNT	ac20	5200	Ant2	16.68	0.02	16.7	22.47	Pass
NVNT	ac20	5200	Sum	20.033	0.02	20.053	22.47	Pass
NVNT	ac20	5240	Ant1	15.04	0.02	15.06	22.47	Pass
NVNT	ac20	5240	Ant2	17.44	0.02	17.46	22.47	Pass
NVNT	ac20	5240	Sum	19.414	0.02	19.434	22.47	Pass
NVNT	ac40	5190	Ant1	18.79	0.04	18.83	22.47	Pass
NVNT	ac40	5190	Ant2	17.91	0.04	17.95	22.47	Pass
NVNT	ac40	5190	Sum	21.383	0.04	21.423	22.47	Pass
NVNT	ac40	5230	Ant1	18.8	0.04	18.84	22.47	Pass
NVNT	ac40	5230	Ant2	18.29	0.04	18.33	22.47	Pass
NVNT	ac40	5230	Sum	21.563	0.04	21.603	22.47	Pass
NVNT	ac80	5210	Ant1	19.05	0.08	19.13	22.47	Pass
NVNT	ac80	5210	Ant2	17.76	0.08	17.84	22.47	Pass
NVNT	ac80	5210	Sum	21.463	0.08	21.543	22.47	Pass
NVNT	ax20	5180	Ant1	17.13	0.02	17.15	22.47	Pass
NVNT	ax20	5180	Ant2	17.13	0.02	17.15	22.47	Pass
NVNT	ax20	5180	Sum	20.14	0.02	20.16	22.47	Pass
NVNT	ax20	5200	Ant1	17.35	0.02	17.37	22.47	Pass
NVNT	ax20	5200	Ant2	16.72	0.02	16.74	22.47	Pass
NVNT	ax20	5200	Sum	20.057	0.02	20.077	22.47	Pass
NVNT	ax20	5240	Ant1	17.52	0.02	17.54	22.47	Pass
NVNT	ax20	5240	Ant2	17.28	0.02	17.3	22.47	Pass
NVNT	ax20	5240	Sum	20.412	0.02	20.432	22.47	Pass
NVNT	ax40	5190	Ant1	18.75	0.04	18.79	22.47	Pass
NVNT	ax40	5190	Ant2	18	0.04	18.04	22.47	Pass
NVNT	ax40	5190	Sum	21.401	0.04	21.441	22.47	Pass
NVNT	ax40	5230	Ant1	18.94	0.04	18.98	22.47	Pass
NVNT	ax40	5230	Ant2	18.38	0.04	18.42	22.47	Pass
NVNT	ax40	5230	Sum	21.679	0.04	21.719	22.47	Pass
NVNT	ax80	5210	Ant1	19.23	0.08	19.31	22.47	Pass

NVNT	ax80	5210	Ant2	17.85	0.08	17.93	22.47	Pass
NVNT	ax80	5210	Sum	21.605	0.08	21.685	22.47	Pass
NVNT	n20	5180	Ant1	17.14	0.02	17.16	22.47	Pass
NVNT	n20	5180	Ant2	17.03	0.02	17.05	22.47	Pass
NVNT	n20	5180	Sum	20.096	0.02	20.116	22.47	Pass
NVNT	n20	5200	Ant1	17.35	0.02	17.37	22.47	Pass
NVNT	n20	5200	Ant2	16.72	0.02	16.74	22.47	Pass
NVNT	n20	5200	Sum	20.057	0.02	20.077	22.47	Pass
NVNT	n20	5240	Ant1	15.03	0.02	15.05	22.47	Pass
NVNT	n20	5240	Ant2	17.39	0.02	17.41	22.47	Pass
NVNT	n20	5240	Sum	19.379	0.02	19.399	22.47	Pass
NVNT	n40	5190	Ant1	18.69	0.04	18.73	22.47	Pass
NVNT	n40	5190	Ant2	18.04	0.04	18.08	22.47	Pass
NVNT	n40	5190	Sum	21.387	0.04	21.427	22.47	Pass
NVNT	n40	5230	Ant1	18.79	0.04	18.83	22.47	Pass
NVNT	n40	5230	Ant2	18.23	0.04	18.27	22.47	Pass
NVNT	n40	5230	Sum	21.529	0.04	21.569	22.47	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

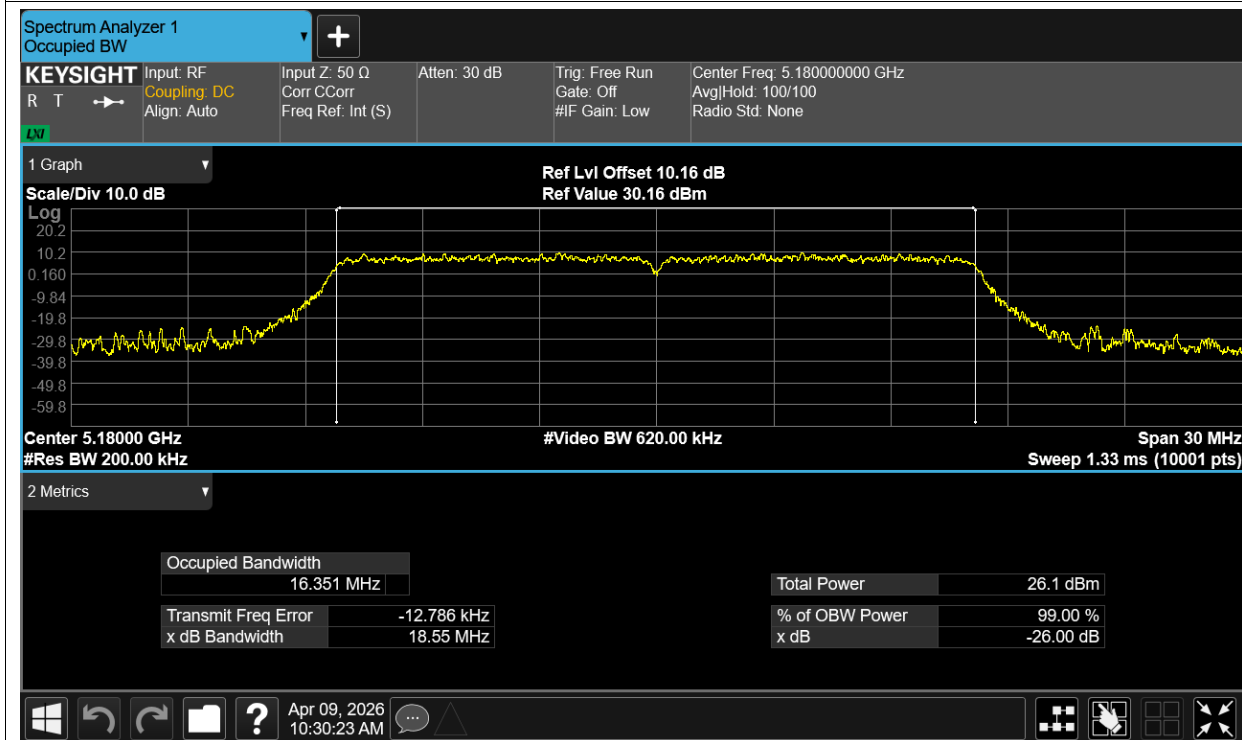
For MIMO mode: ant gain is $4.52+10*\log_{10}(2)=4.52+3.01=7.53$ dBi, the limit is $24-(7.53-6)=22.47$ dbm.

Occupied Channel Bandwidth

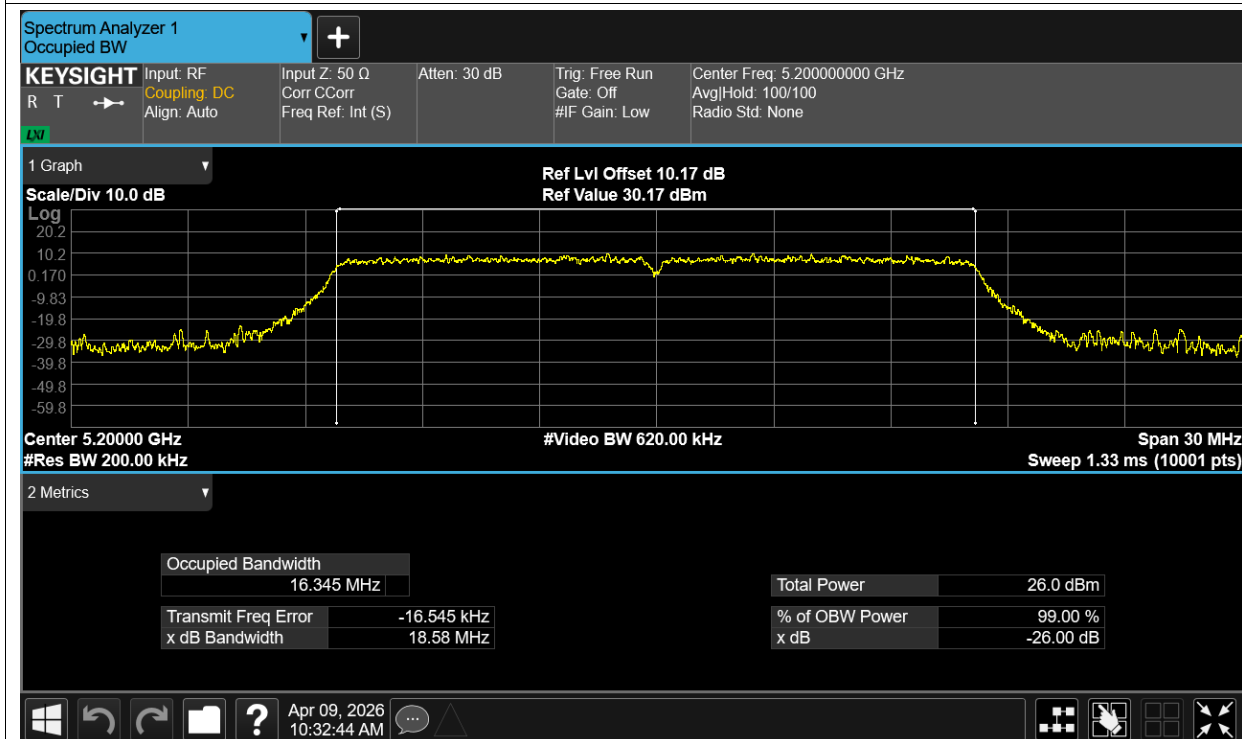
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.351
NVNT	a	5200	Ant1	16.345
NVNT	a	5240	Ant1	16.341
NVNT	a	5180	Ant2	16.338
NVNT	a	5200	Ant2	16.331
NVNT	a	5240	Ant2	16.343
NVNT	ac20	5180	Ant1	17.516
NVNT	ac20	5180	Ant2	17.514
NVNT	ac20	5200	Ant1	17.521
NVNT	ac20	5200	Ant2	17.519
NVNT	ac20	5240	Ant1	17.526
NVNT	ac20	5240	Ant2	17.525
NVNT	ac40	5190	Ant1	36.101
NVNT	ac40	5190	Ant2	36.148
NVNT	ac40	5230	Ant1	36.159
NVNT	ac40	5230	Ant2	36.117
NVNT	ac80	5210	Ant1	75.499
NVNT	ac80	5210	Ant2	75.599
NVNT	ax20	5180	Ant1	18.885
NVNT	ax20	5180	Ant2	18.88
NVNT	ax20	5200	Ant1	18.855
NVNT	ax20	5200	Ant2	18.897
NVNT	ax20	5240	Ant1	18.895
NVNT	ax20	5240	Ant2	18.883
NVNT	ax40	5190	Ant1	37.719
NVNT	ax40	5190	Ant2	37.701
NVNT	ax40	5230	Ant1	37.761
NVNT	ax40	5230	Ant2	37.702
NVNT	ax80	5210	Ant1	76.998
NVNT	ax80	5210	Ant2	77.073
NVNT	n20	5180	Ant1	17.52
NVNT	n20	5180	Ant2	17.528
NVNT	n20	5200	Ant1	17.513
NVNT	n20	5200	Ant2	17.519
NVNT	n20	5240	Ant1	17.531
NVNT	n20	5240	Ant2	17.514
NVNT	n40	5190	Ant1	36.139
NVNT	n40	5190	Ant2	36.18
NVNT	n40	5230	Ant1	36.091
NVNT	n40	5230	Ant2	36.1

Test Graphs

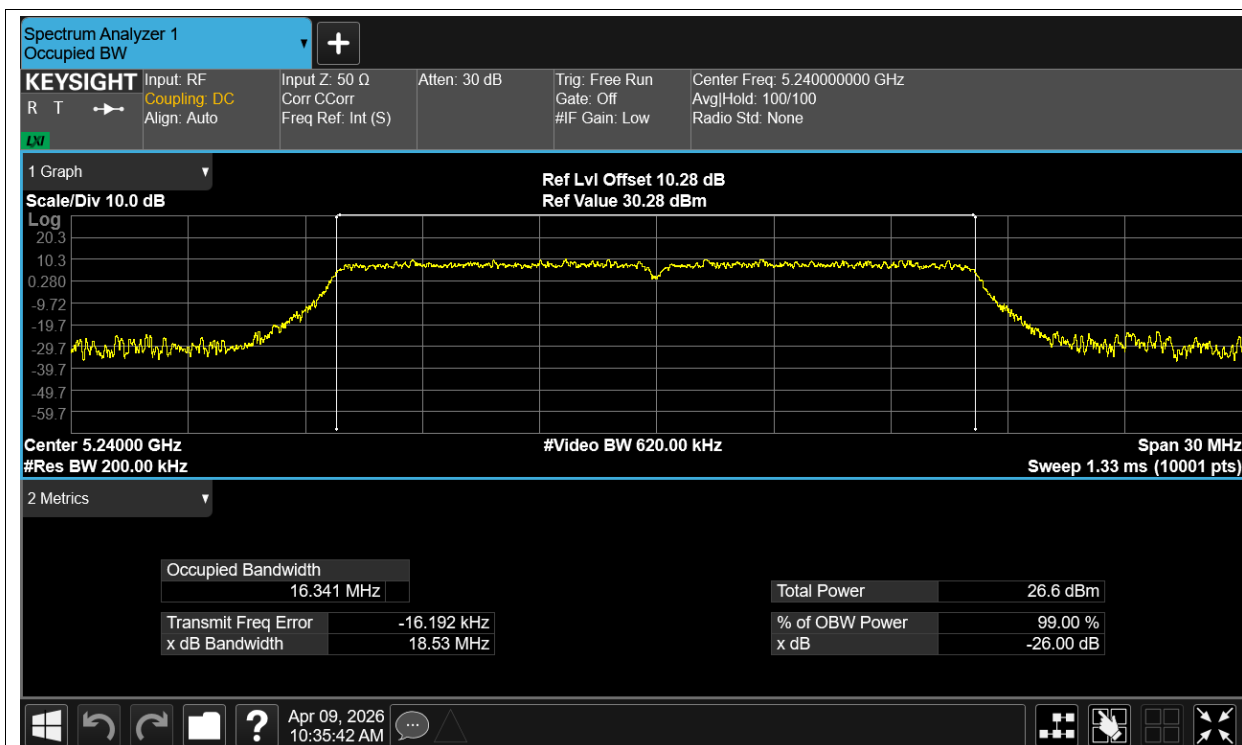
OBW NVNT a 5180MHz Ant1



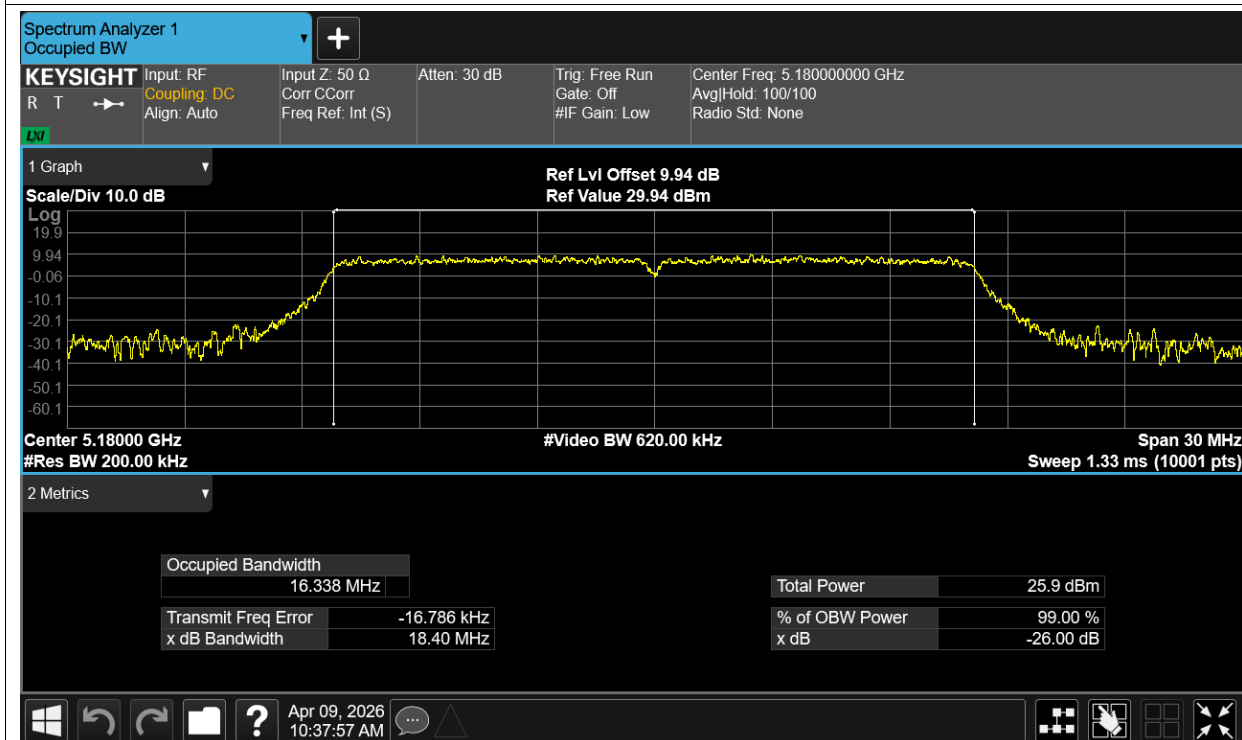
OBW NVNT a 5200MHz Ant1



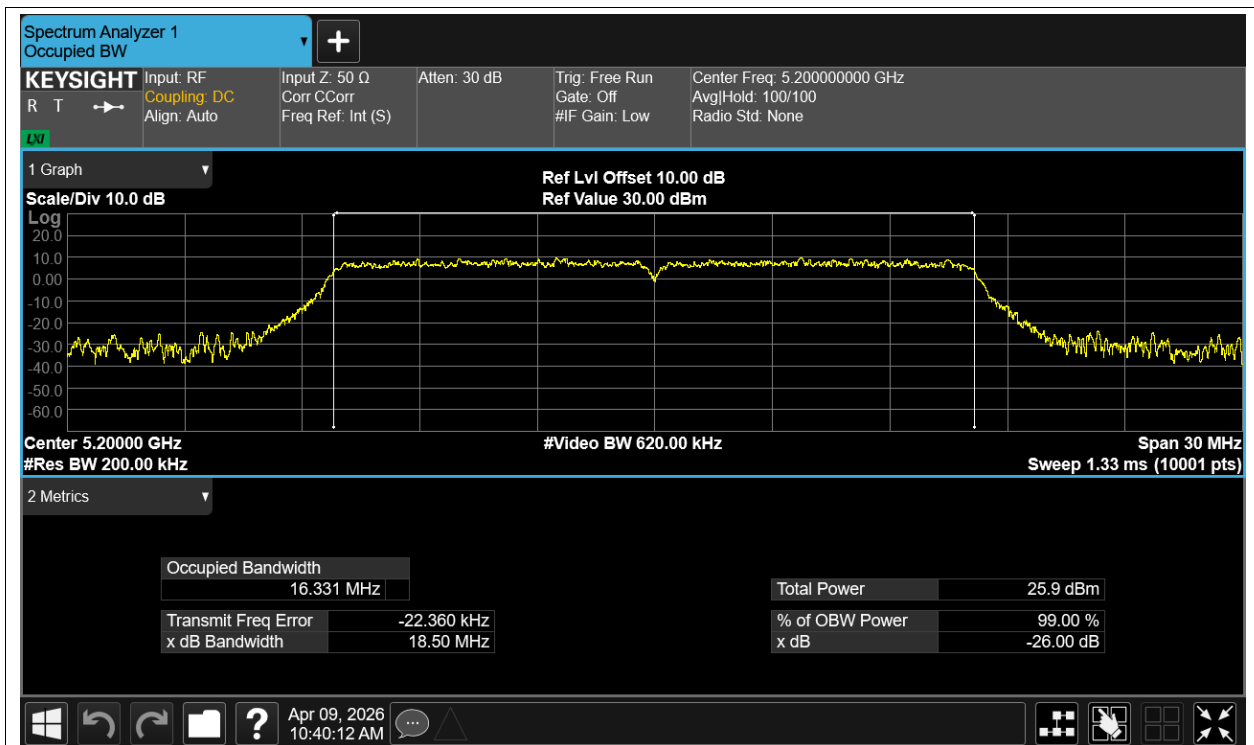
OBW NVNT a 5240MHz Ant1



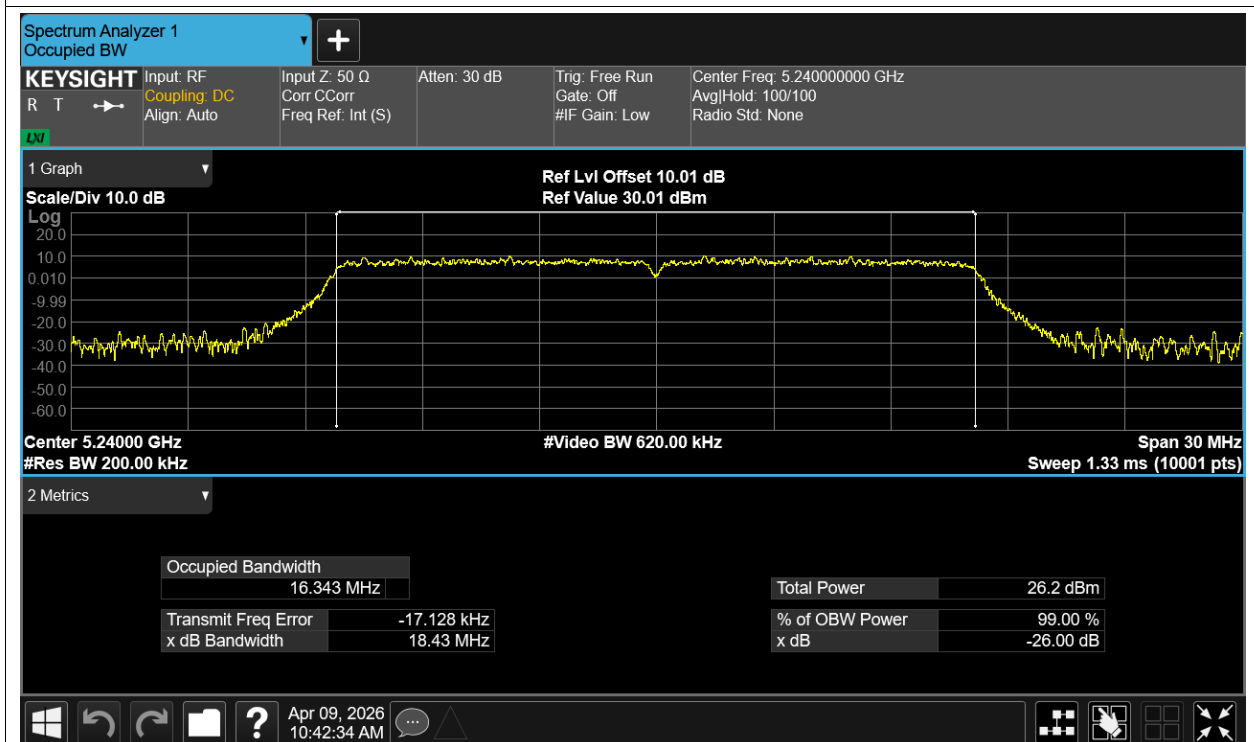
OBW NVNT a 5180MHz Ant2



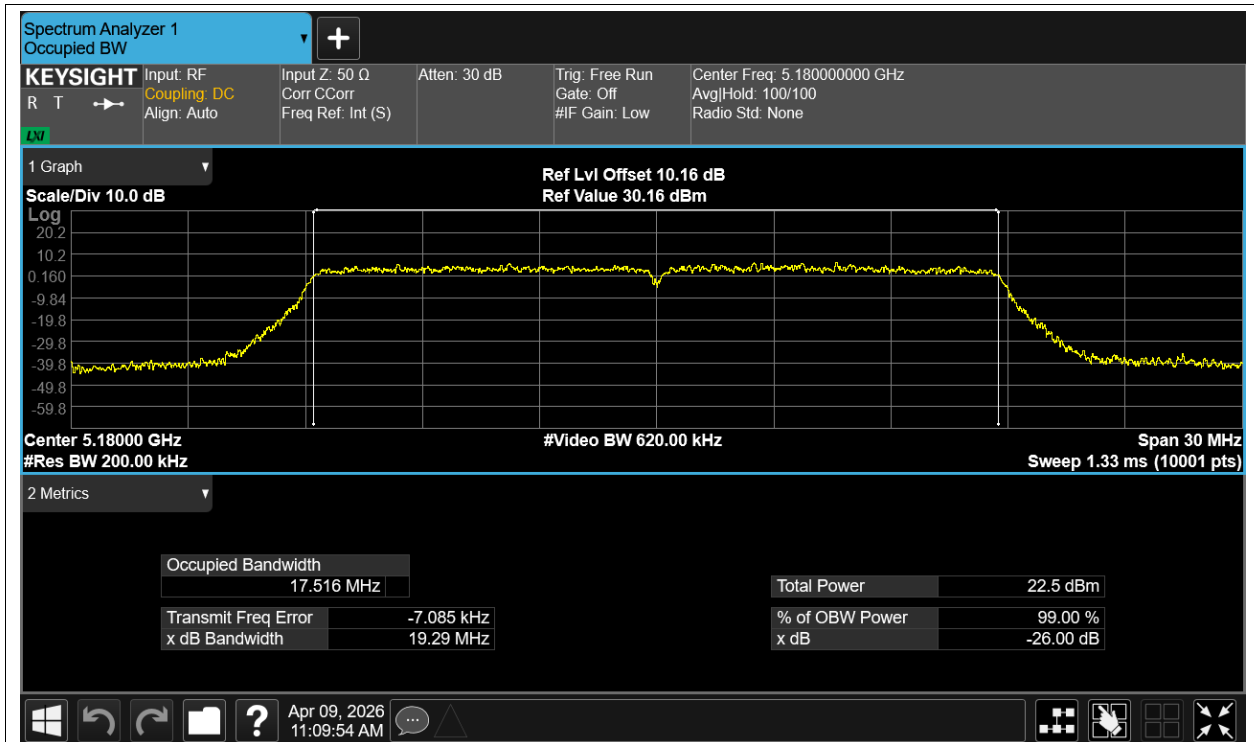
OBW NVNT a 5200MHz Ant2



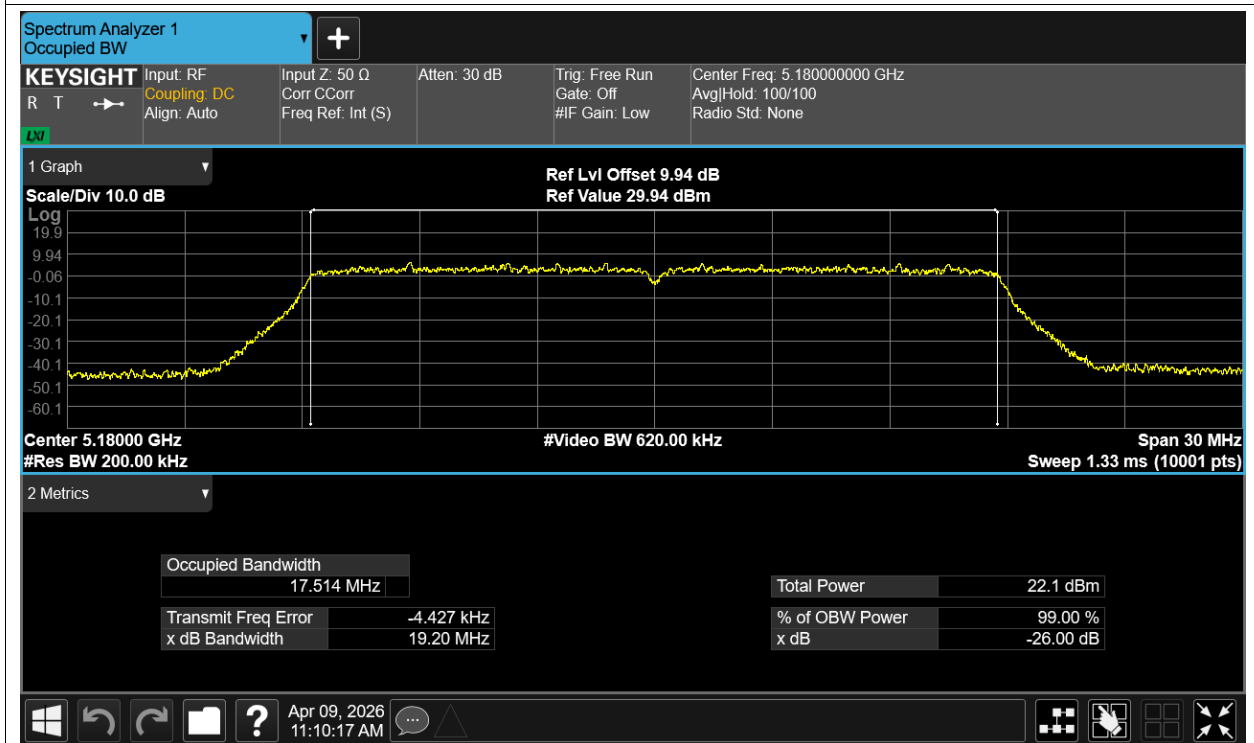
OBW NVNT a 5240MHz Ant2



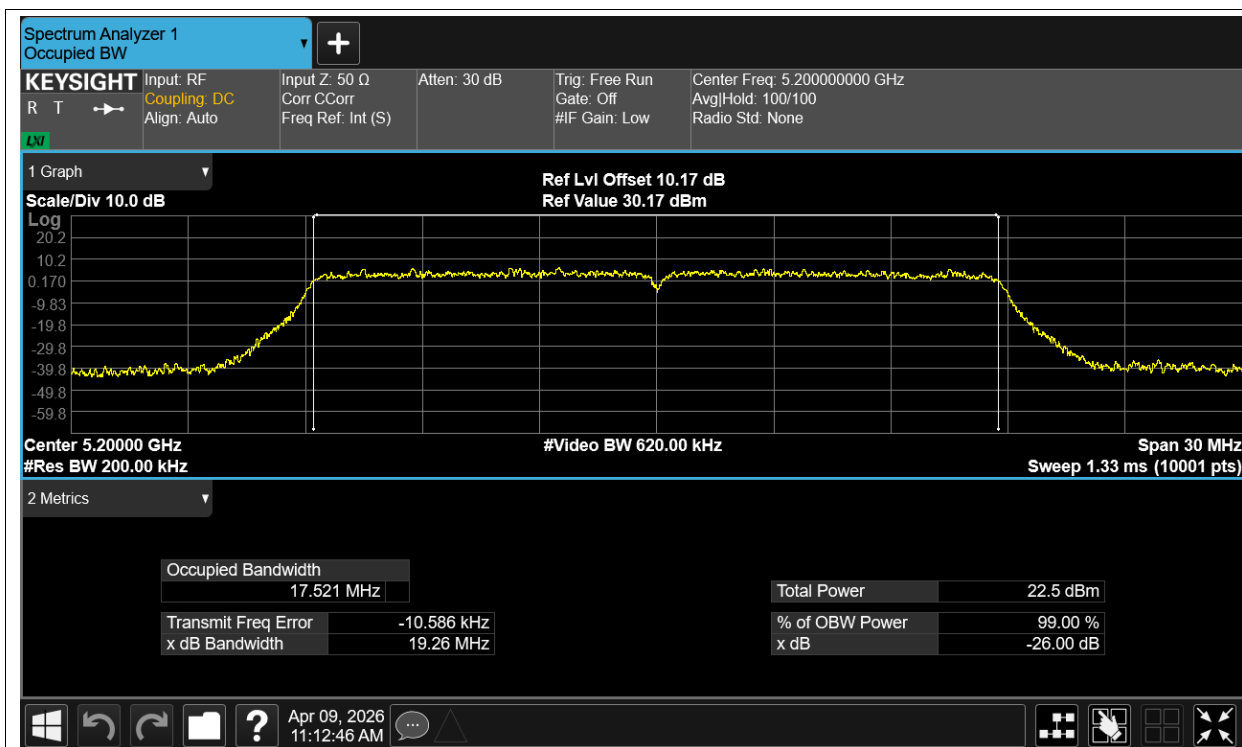
OBW NVNT ac20 5180MHz Ant1



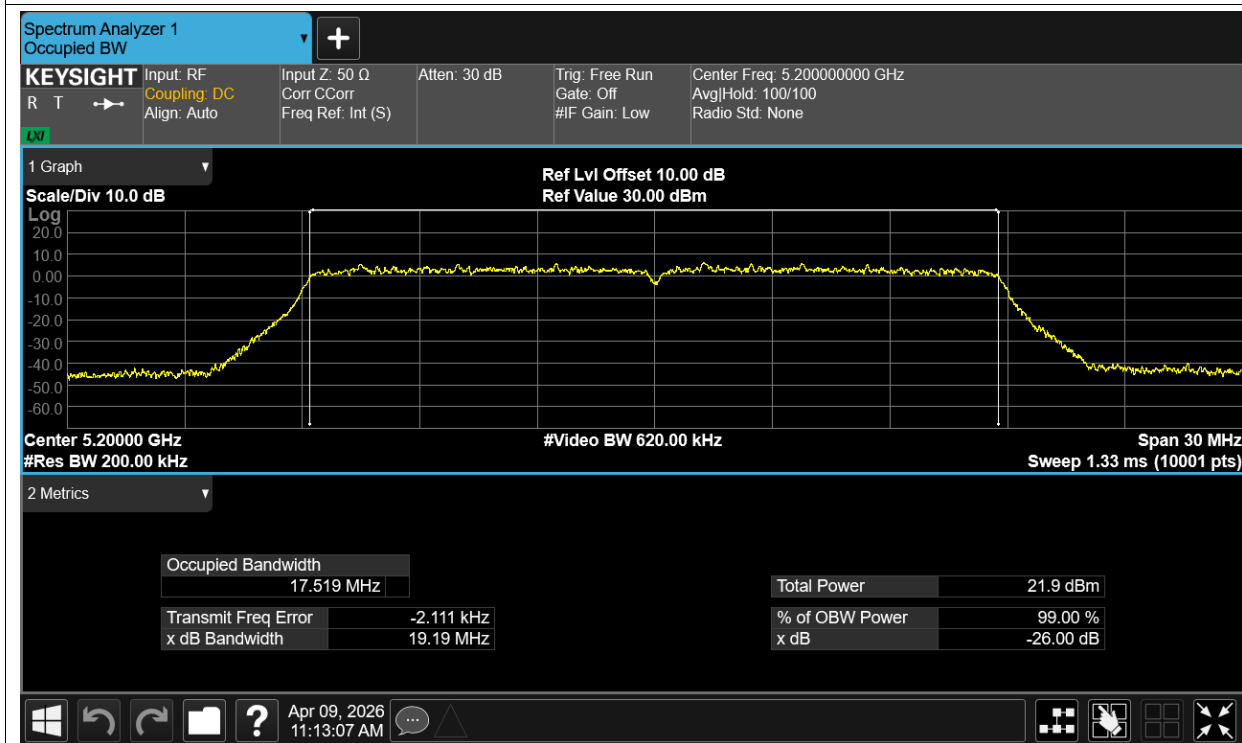
OBW NVNT ac20 5180MHz Ant2



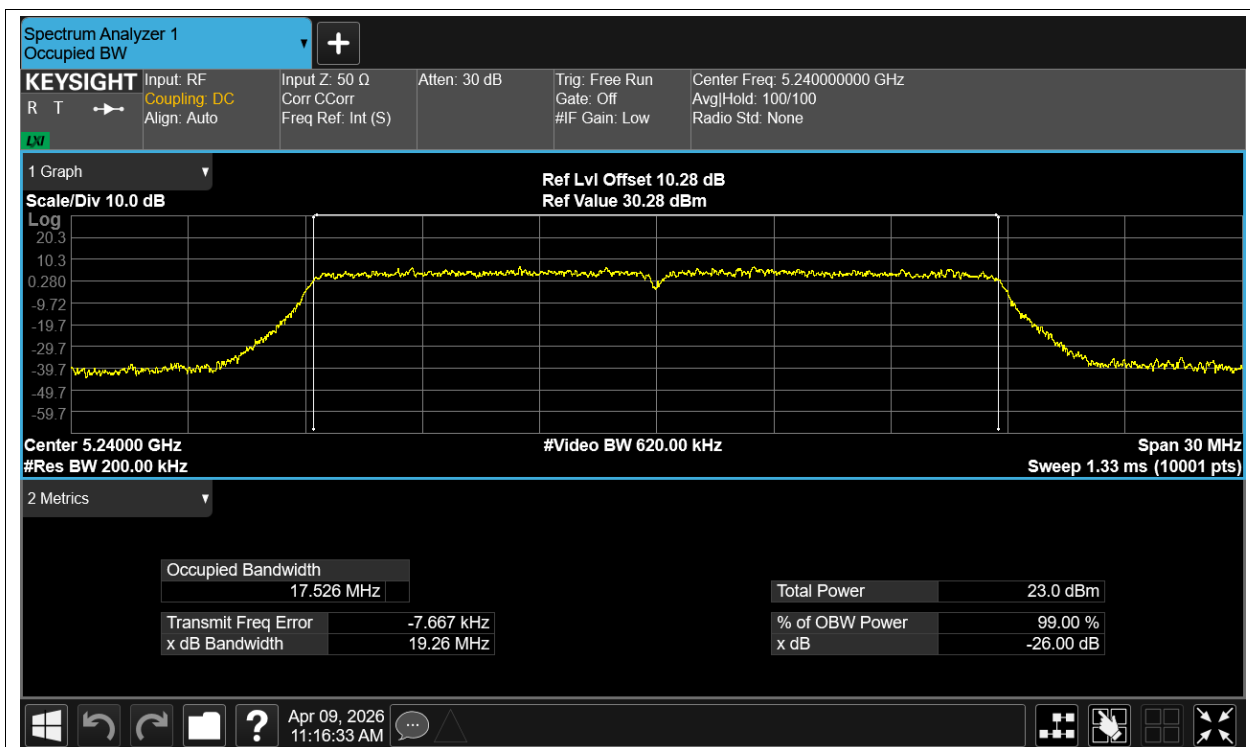
OBW NVNT ac20 5200MHz Ant1



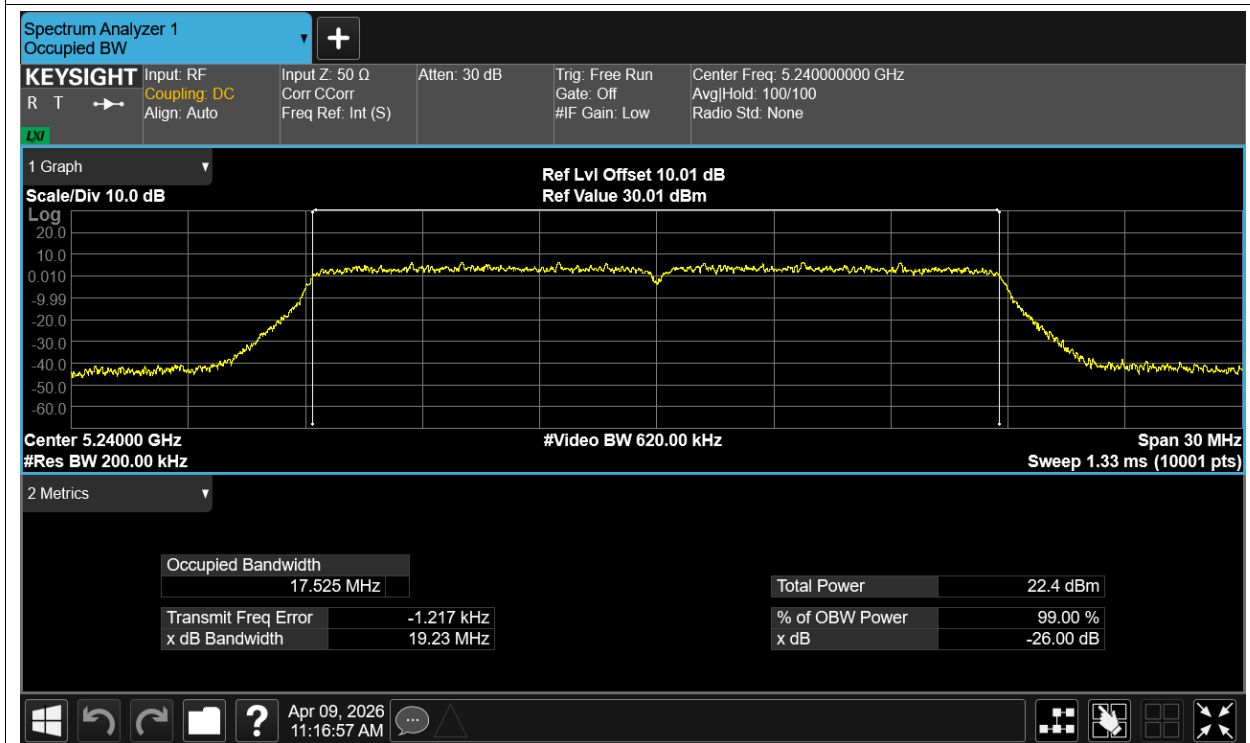
OBW NVNT ac20 5200MHz Ant2



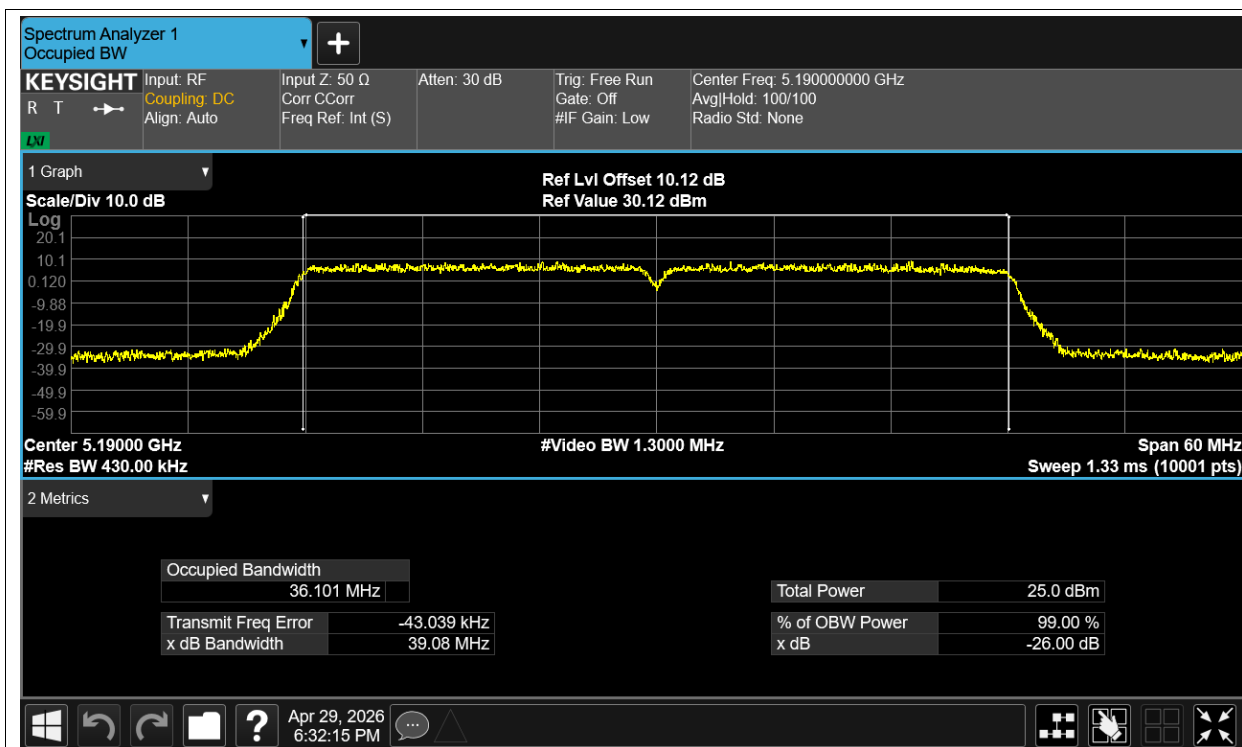
OBW NVNT ac20 5240MHz Ant1



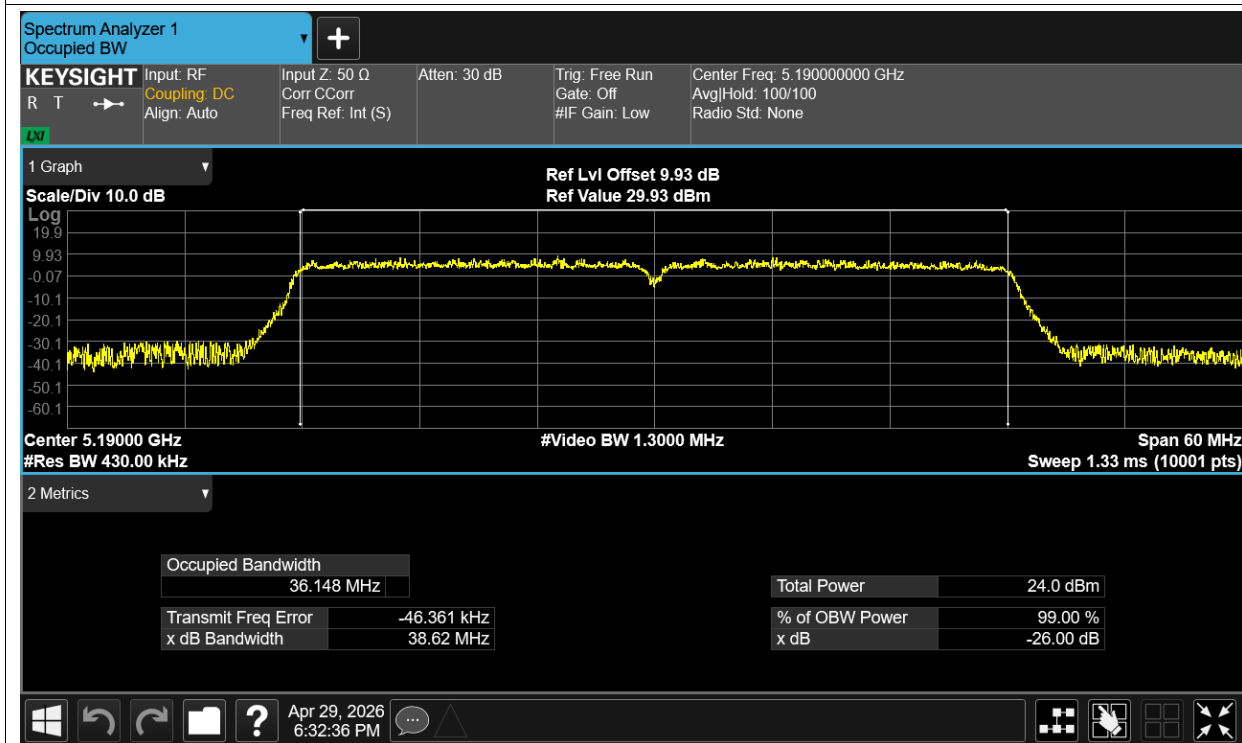
OBW NVNT ac20 5240MHz Ant2



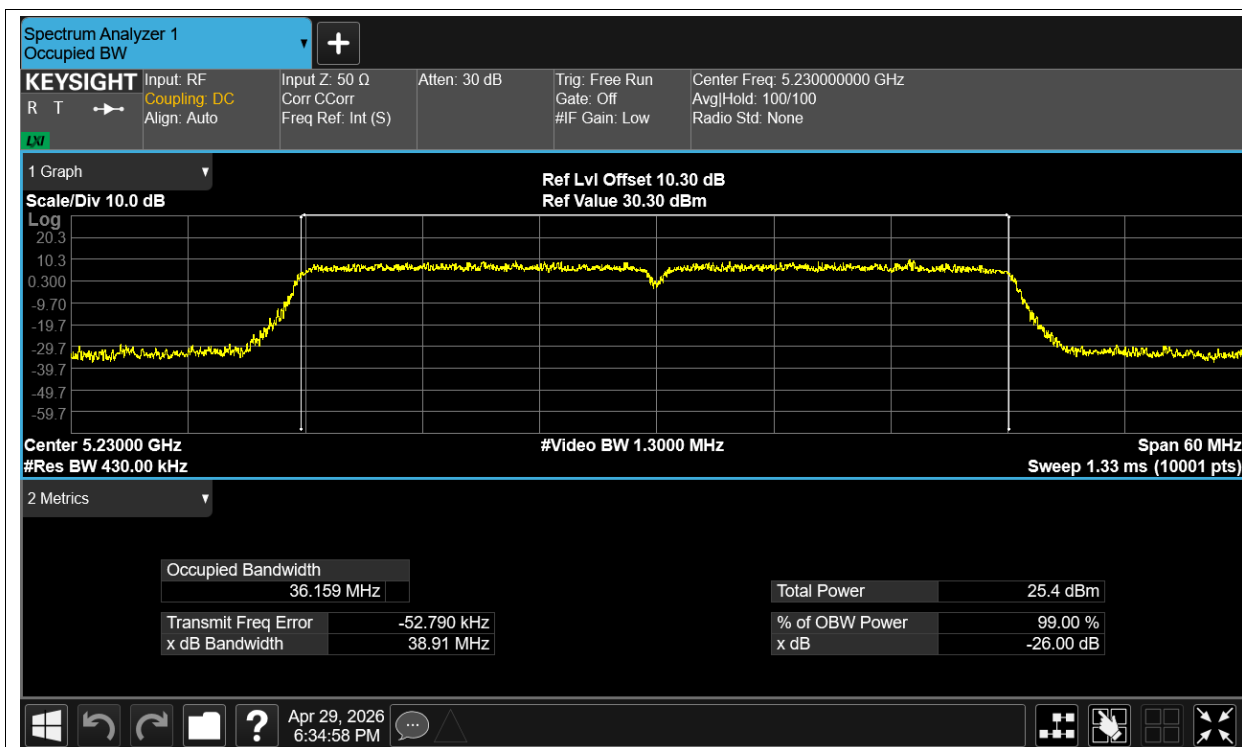
OBW NVNT ac40 5190MHz Ant1



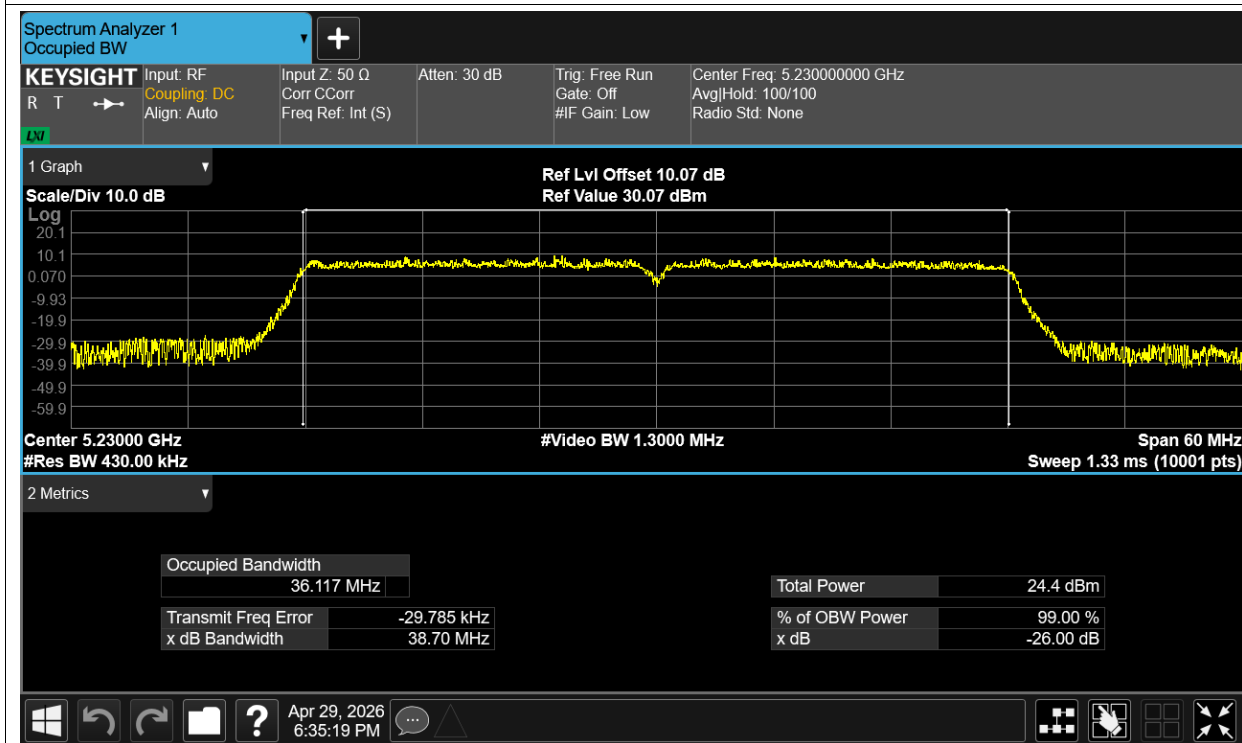
OBW NVNT ac40 5190MHz Ant2



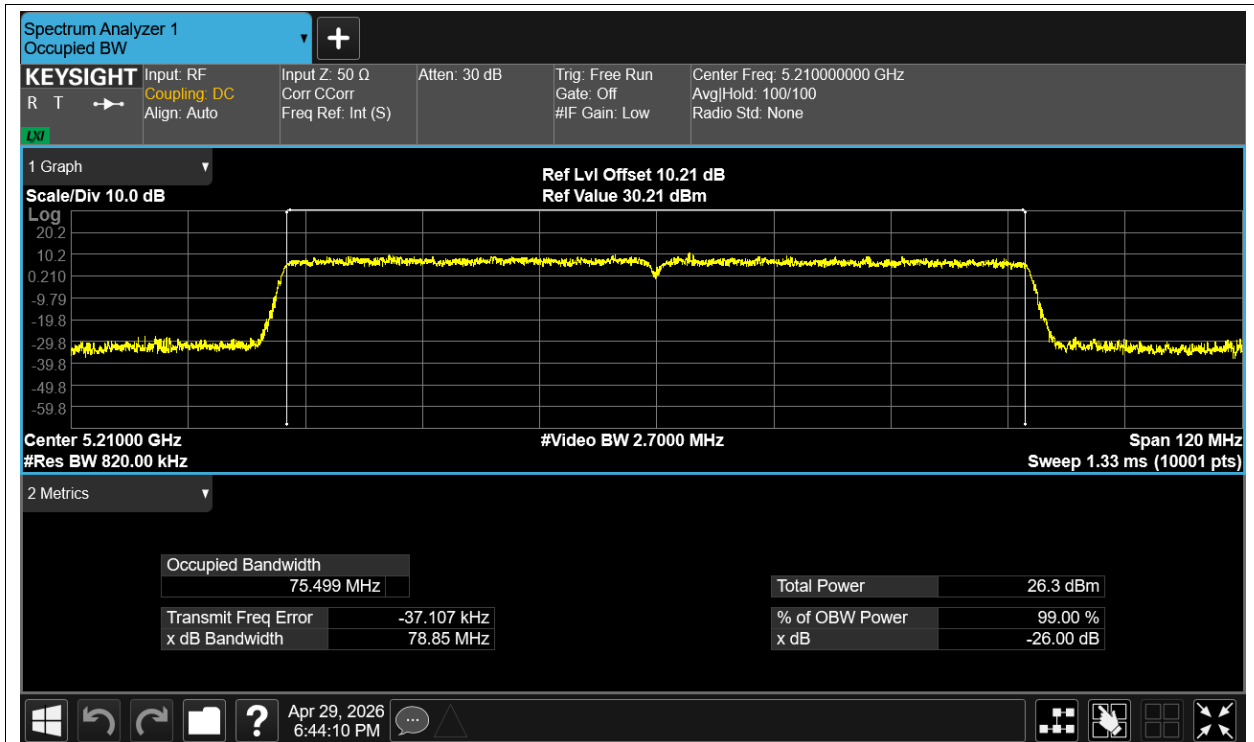
OBW NVNT ac40 5230MHz Ant1



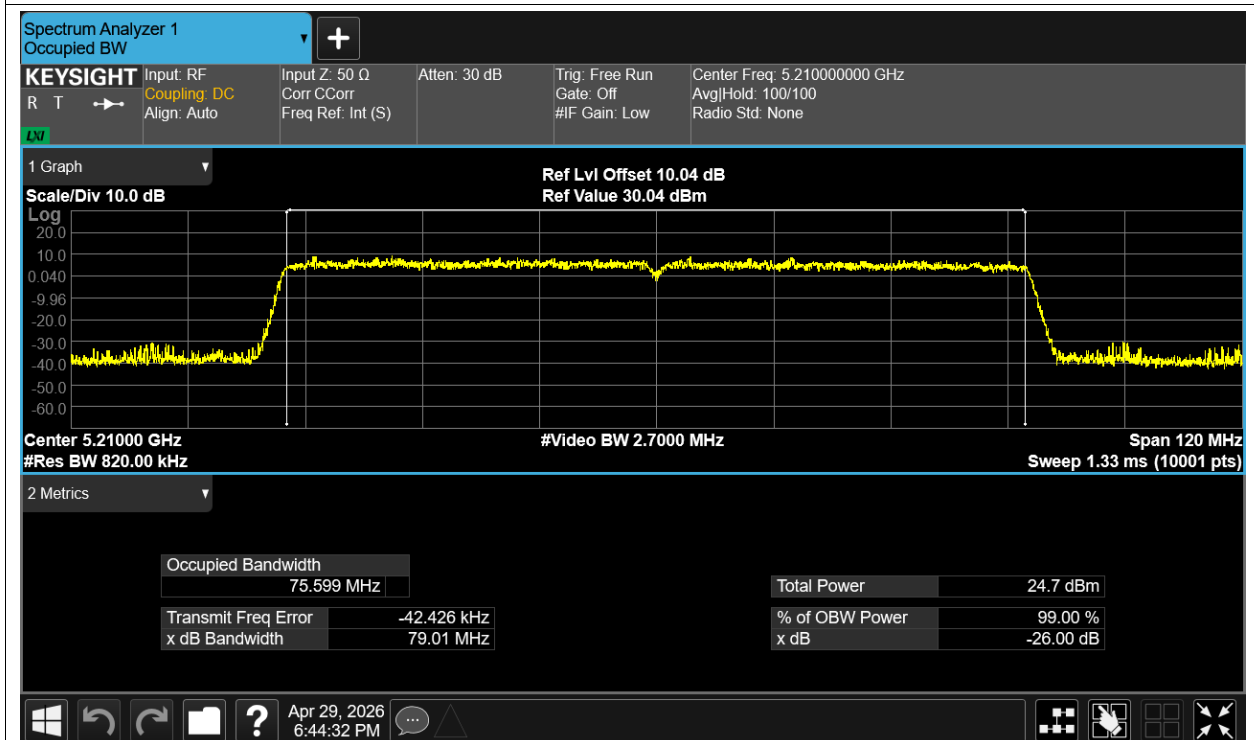
OBW NVNT ac40 5230MHz Ant2



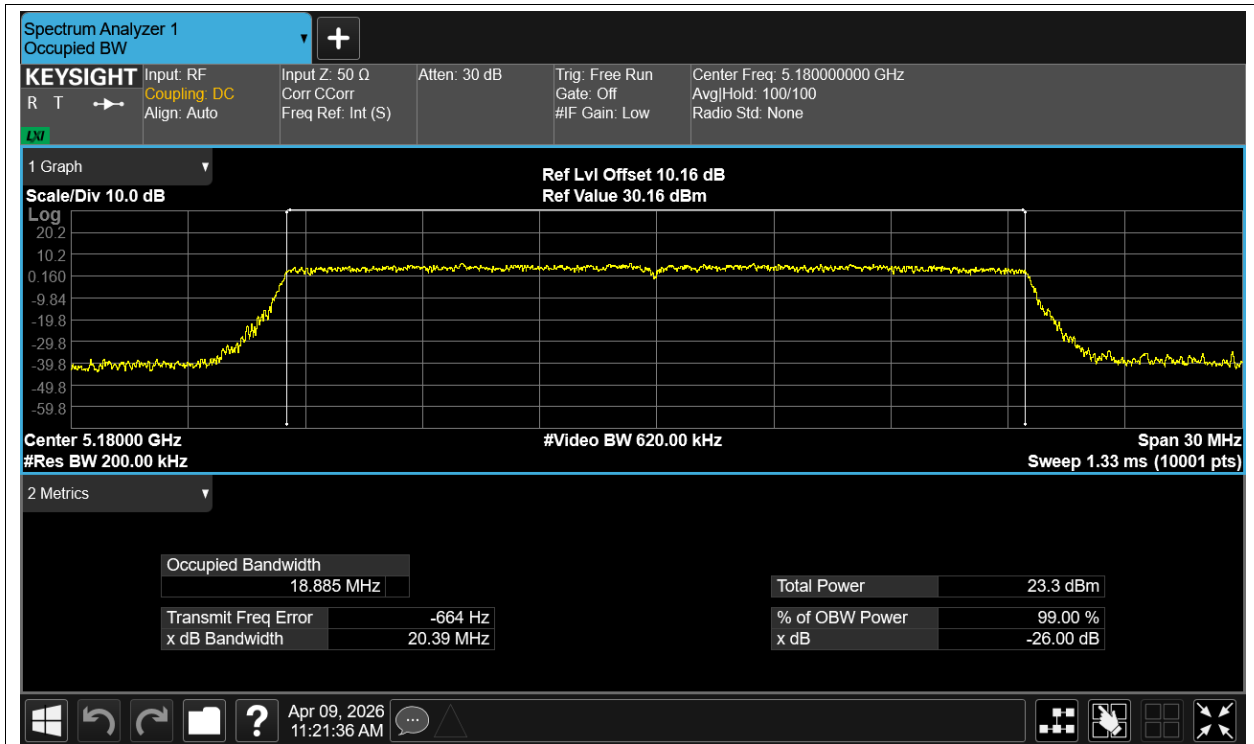
OBW NVNT ac80 5210MHz Ant1



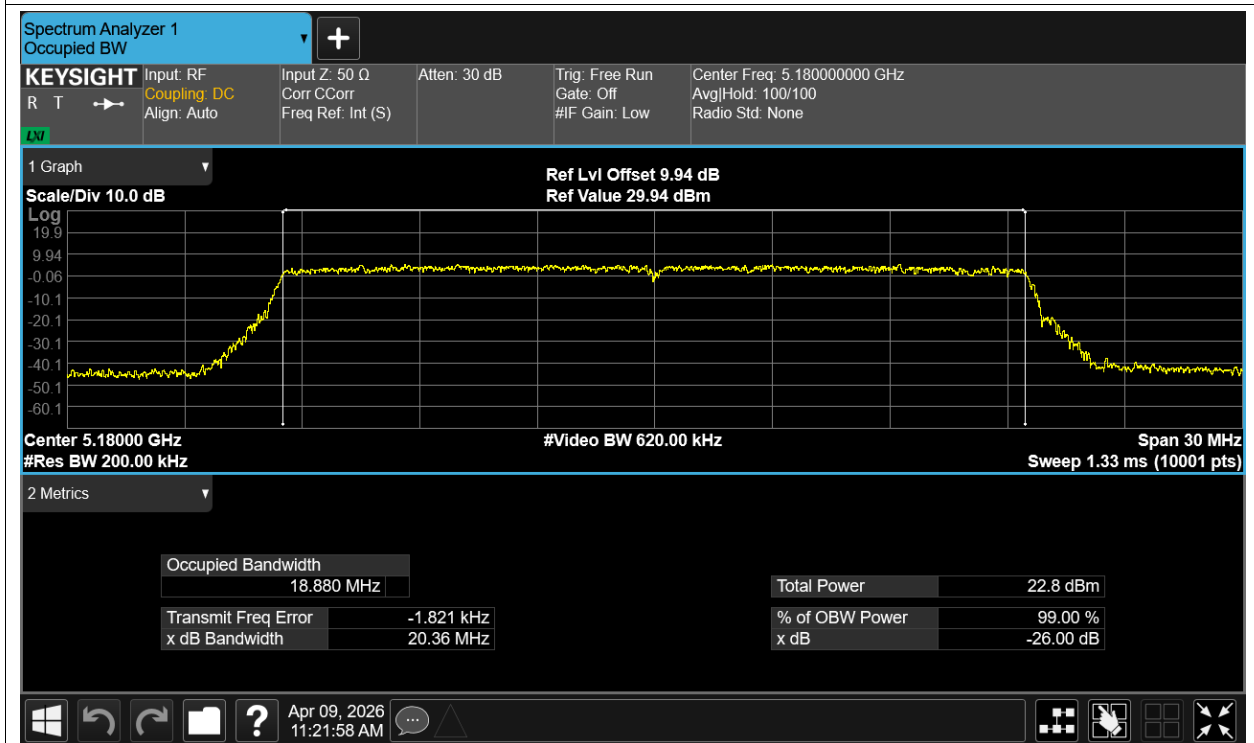
OBW NVNT ac80 5210MHz Ant2



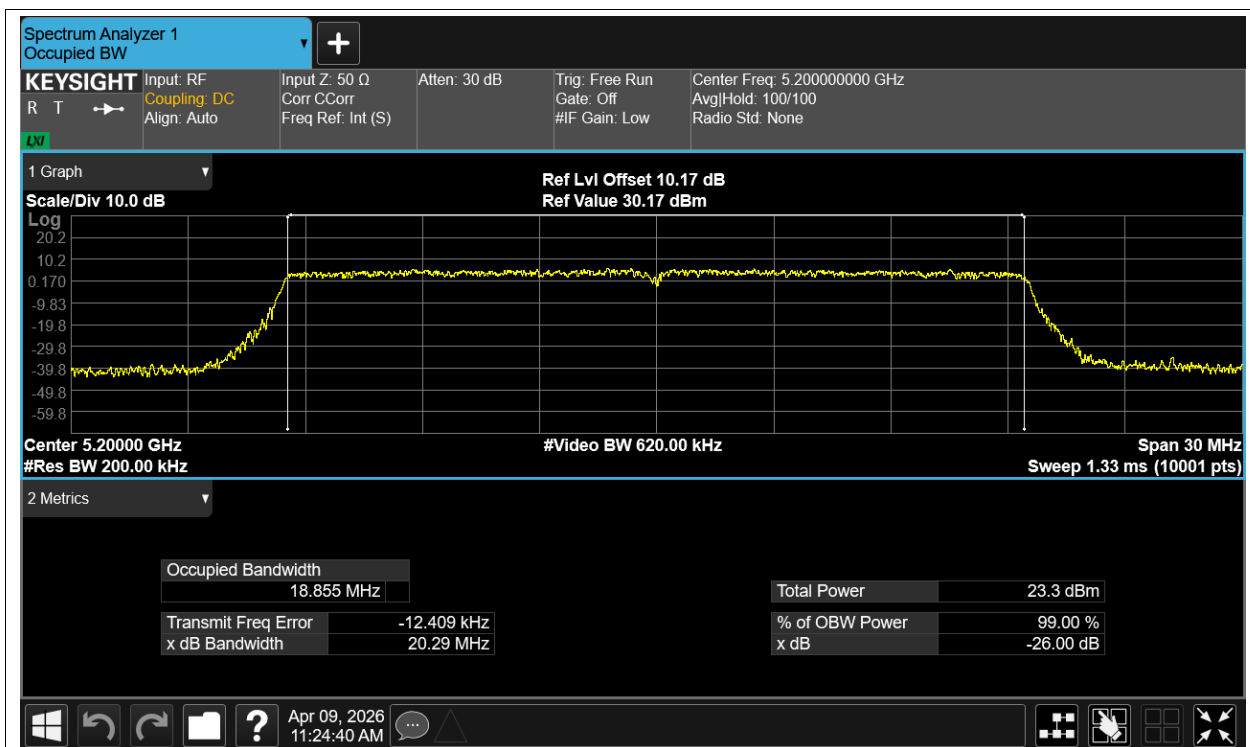
OBW NVNT ax20 5180MHz Ant1



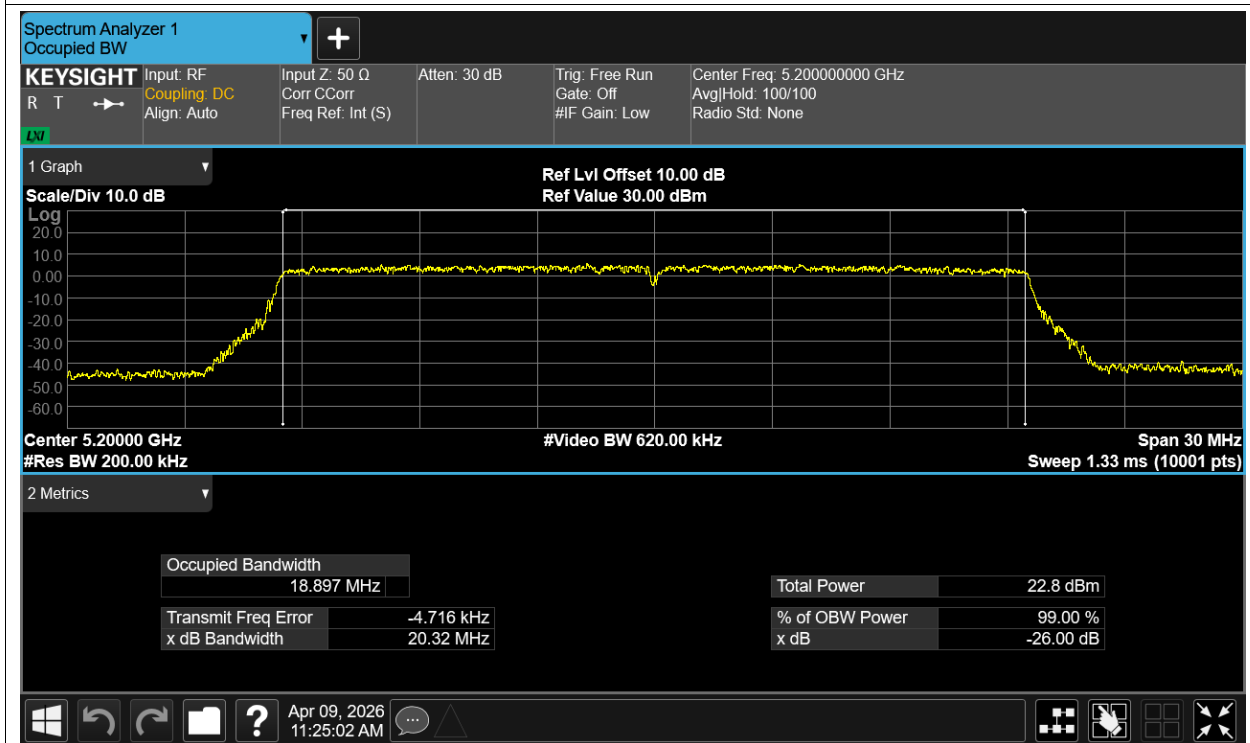
OBW NVNT ax20 5180MHz Ant2



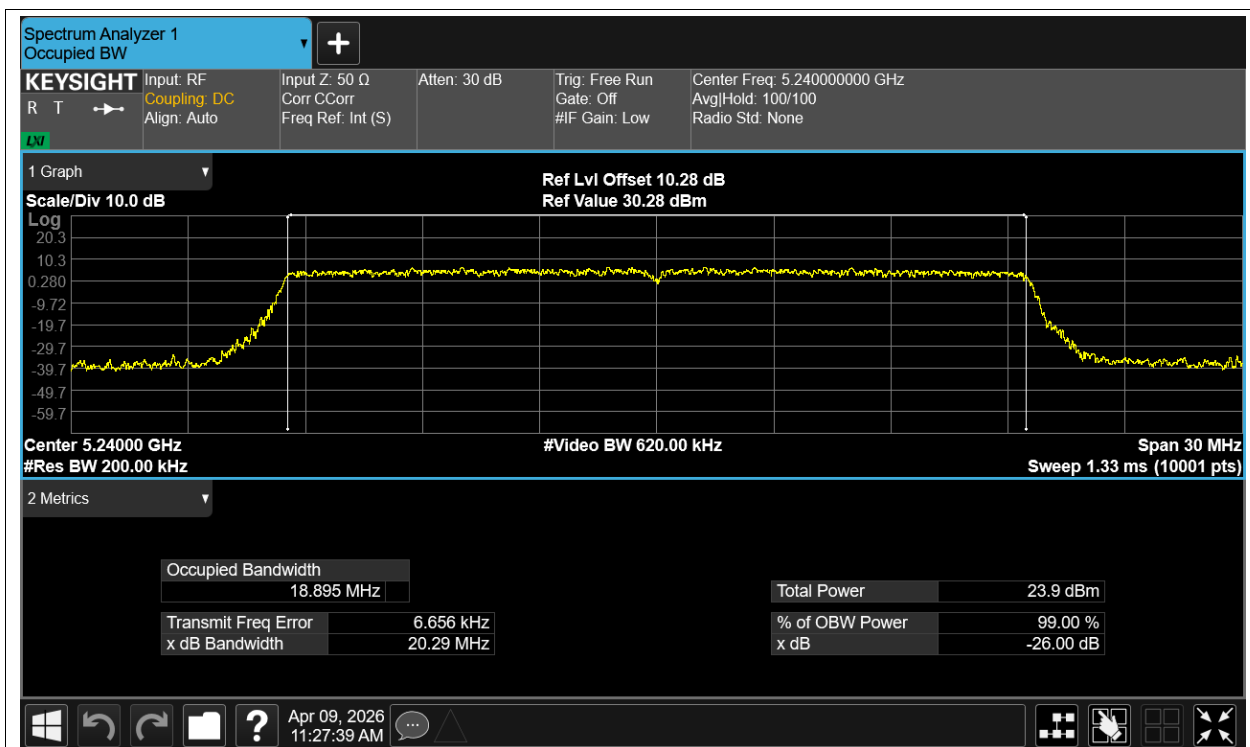
OBW NVNT ax20 5200MHz Ant1



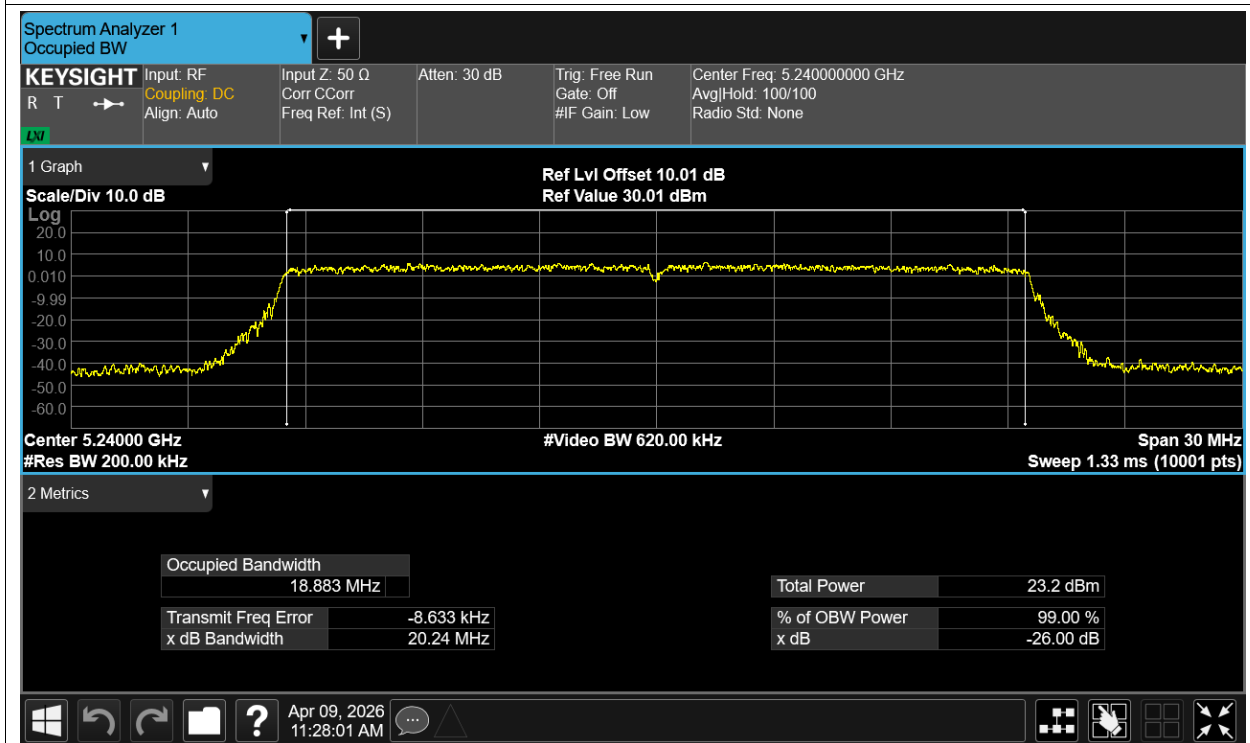
OBW NVNT ax20 5200MHz Ant2



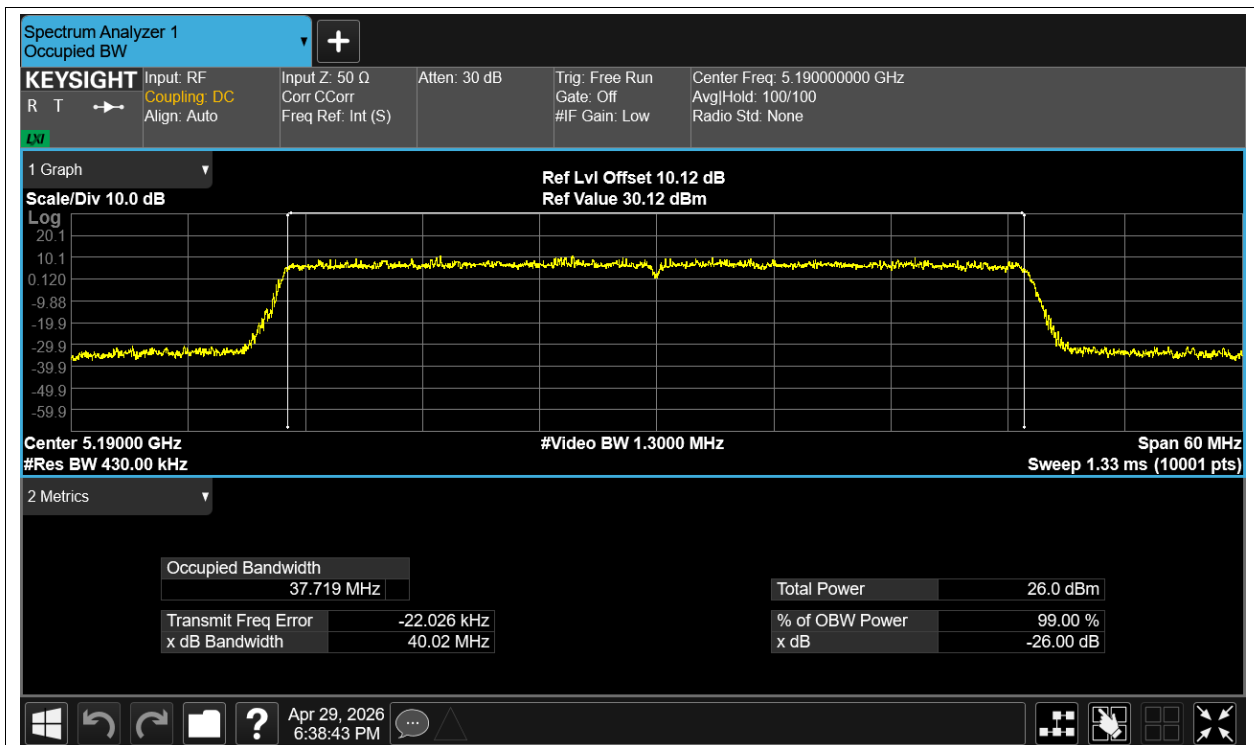
OBW NVNT ax20 5240MHz Ant1



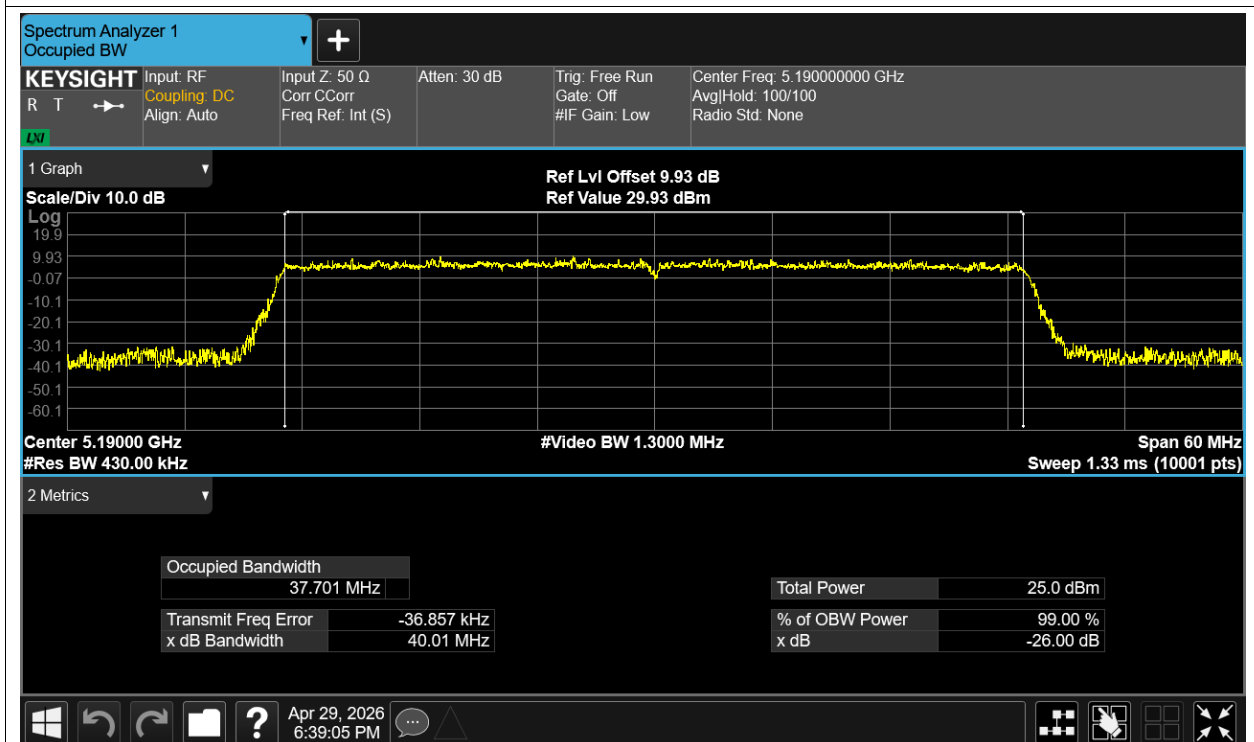
OBW NVNT ax20 5240MHz Ant2



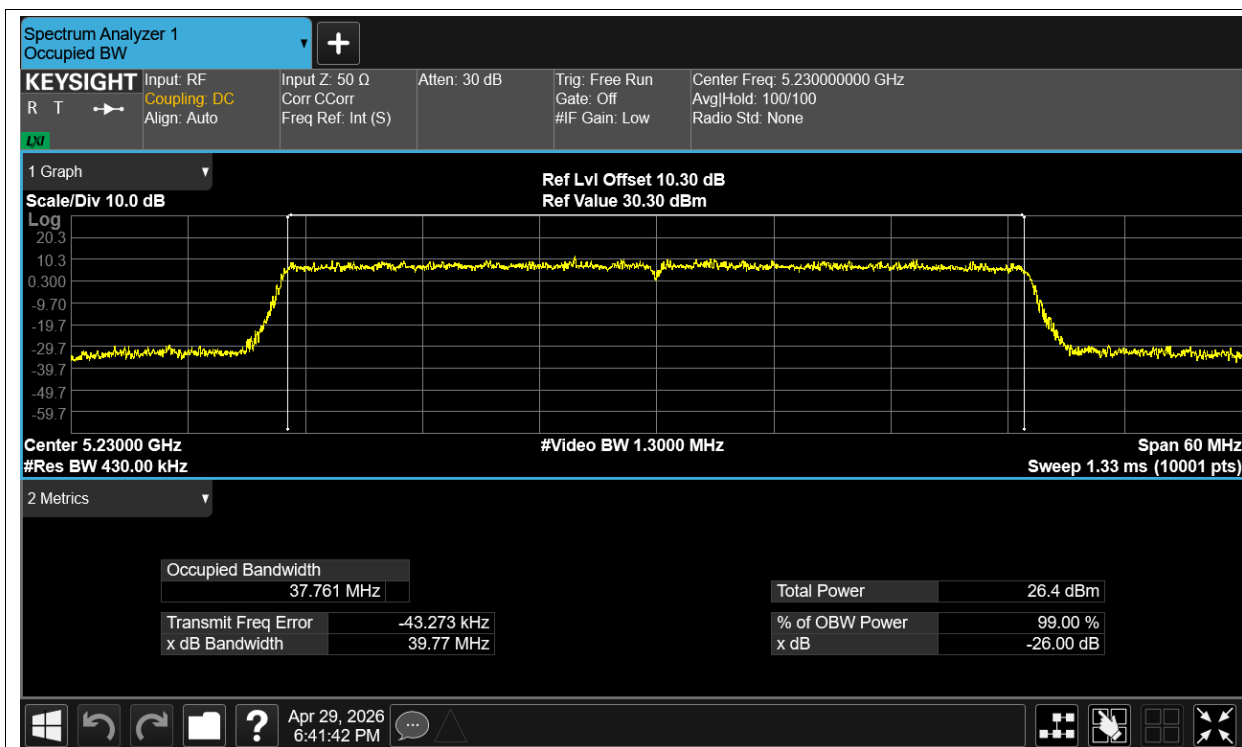
OBW NVNT ax40 5190MHz Ant1



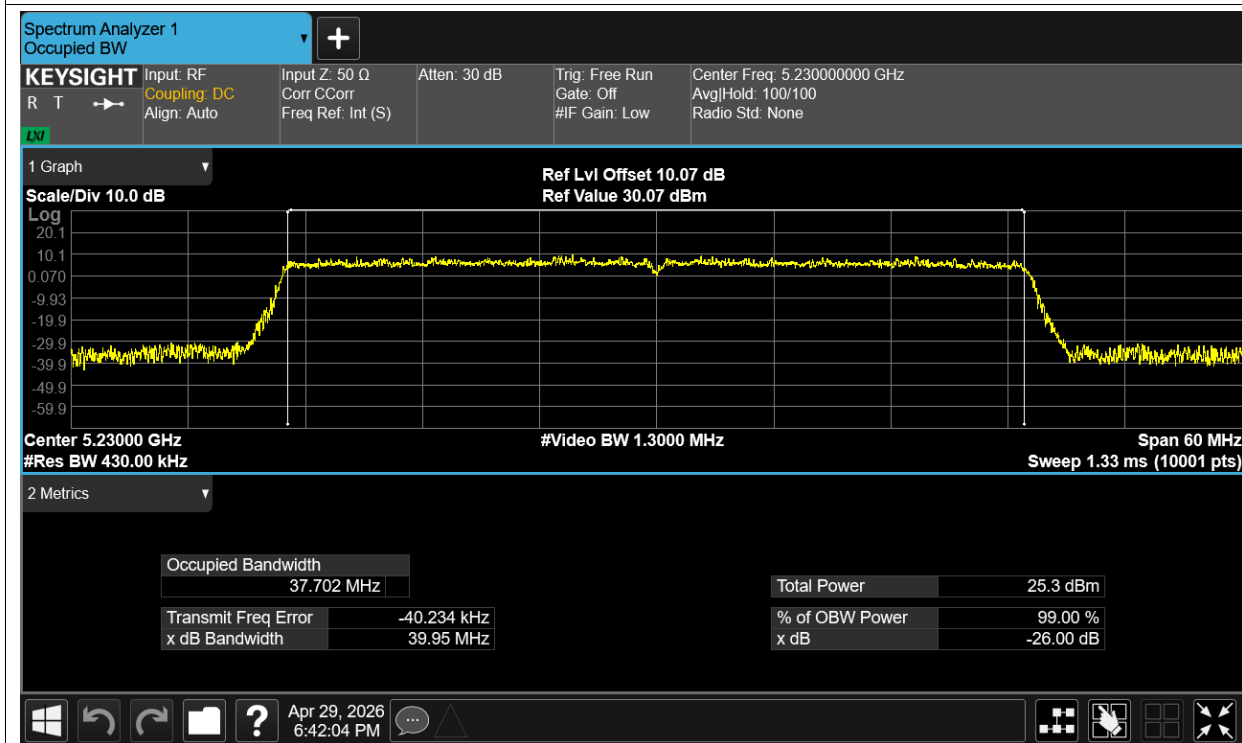
OBW NVNT ax40 5190MHz Ant2



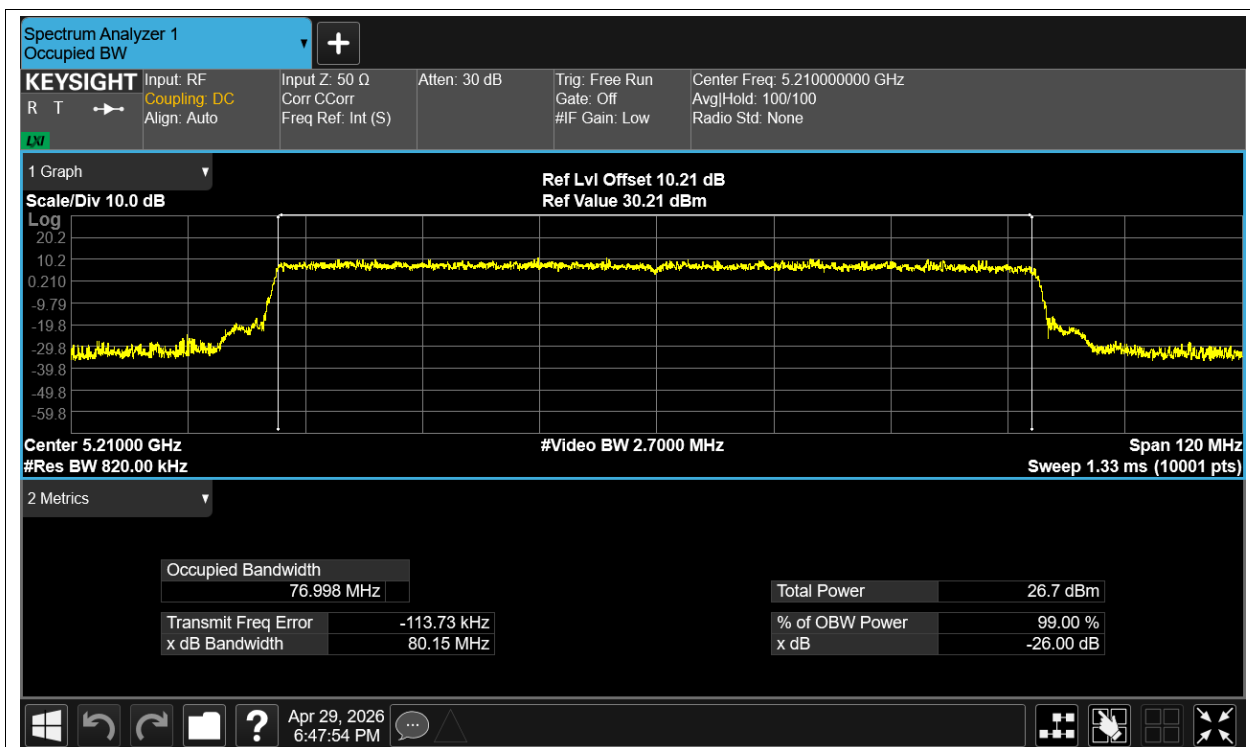
OBW NVNT ax40 5230MHz Ant1



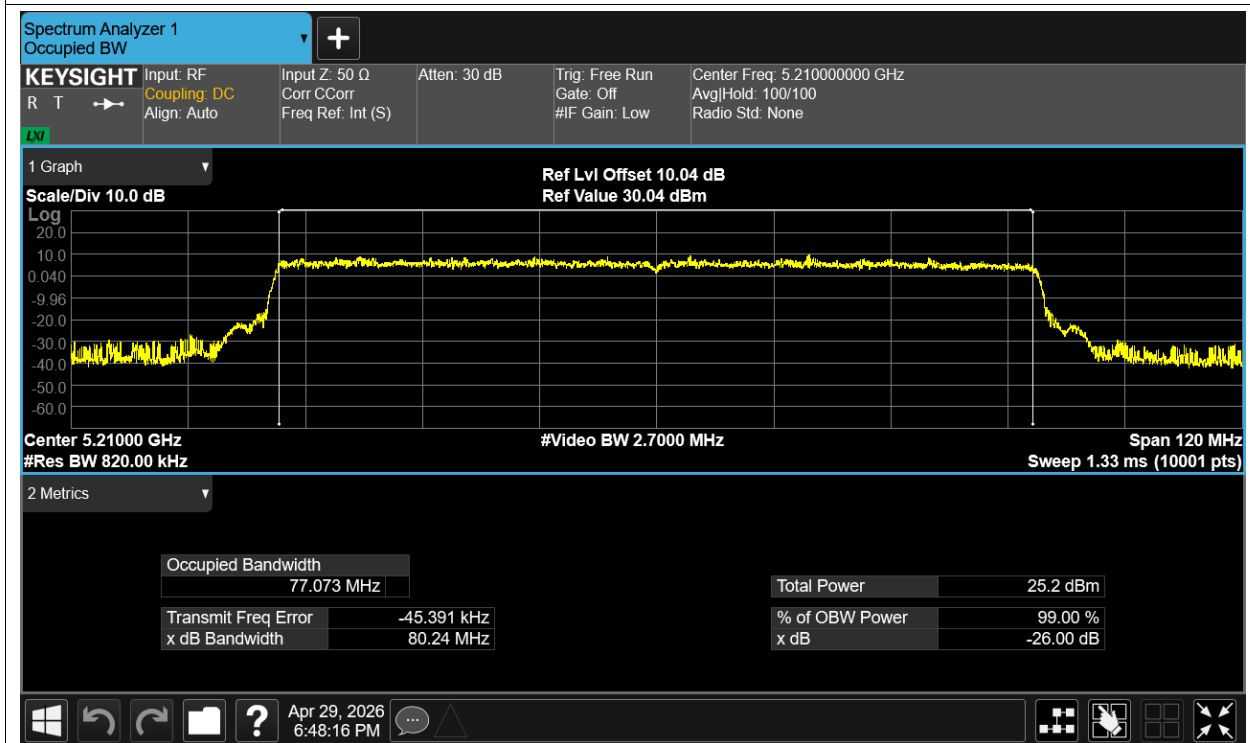
OBW NVNT ax40 5230MHz Ant2



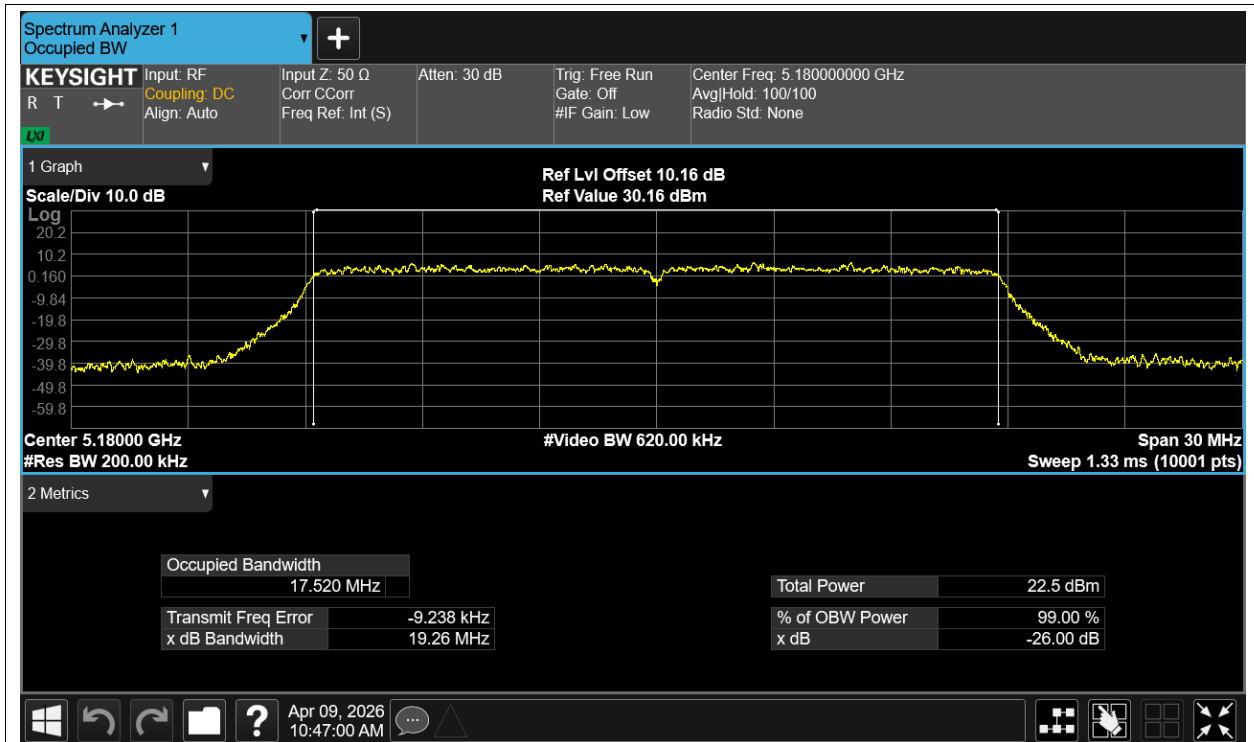
OBW NVNT ax80 5210MHz Ant1



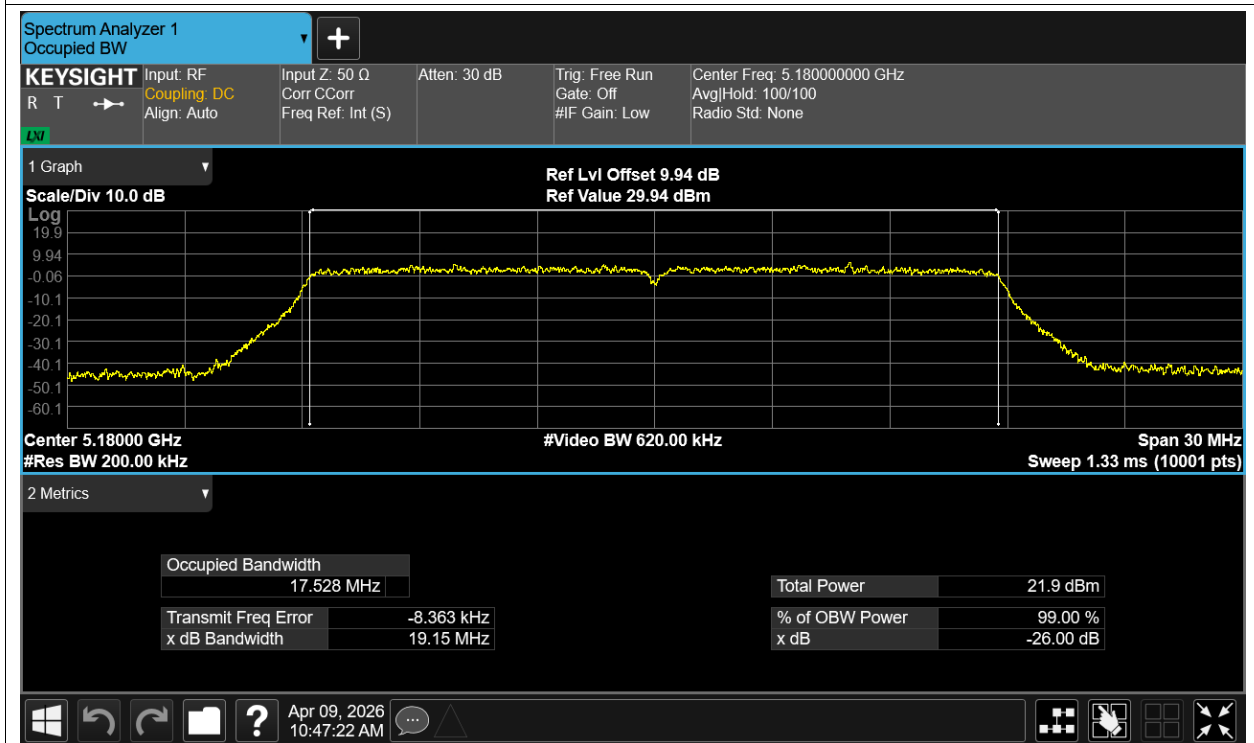
OBW NVNT ax80 5210MHz Ant2



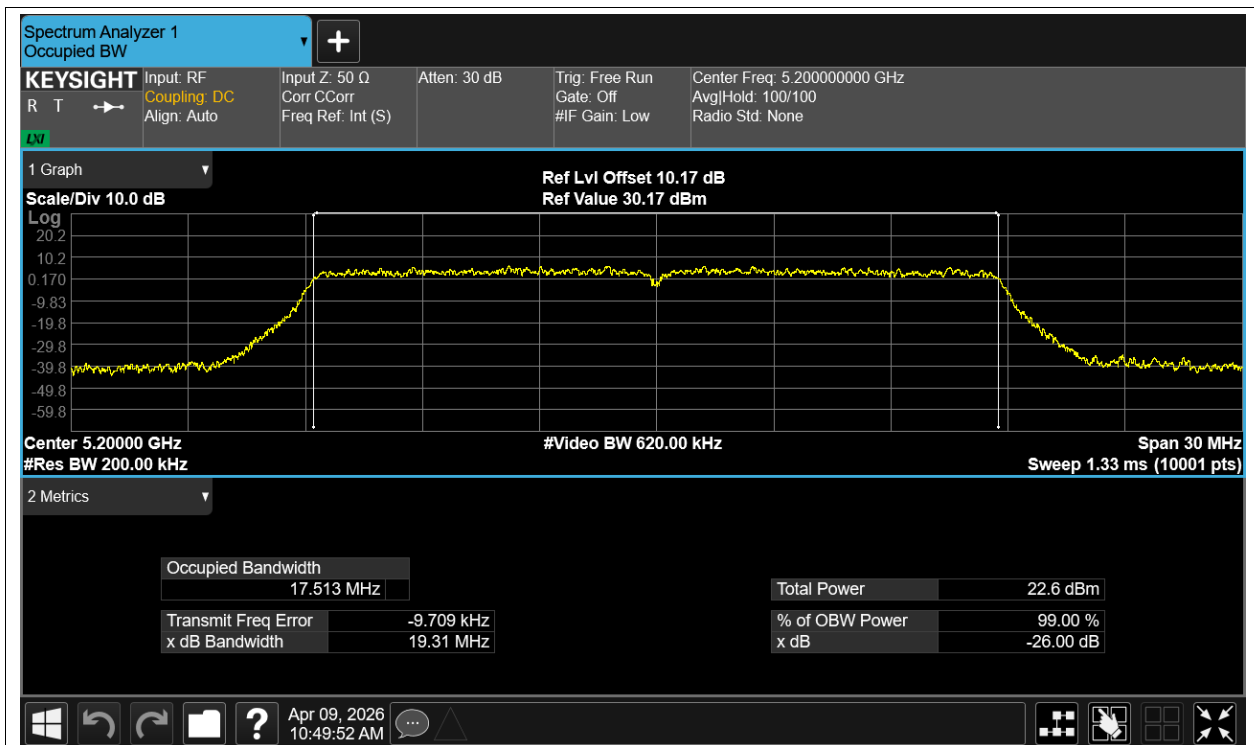
OBW NVNT n20 5180MHz Ant1



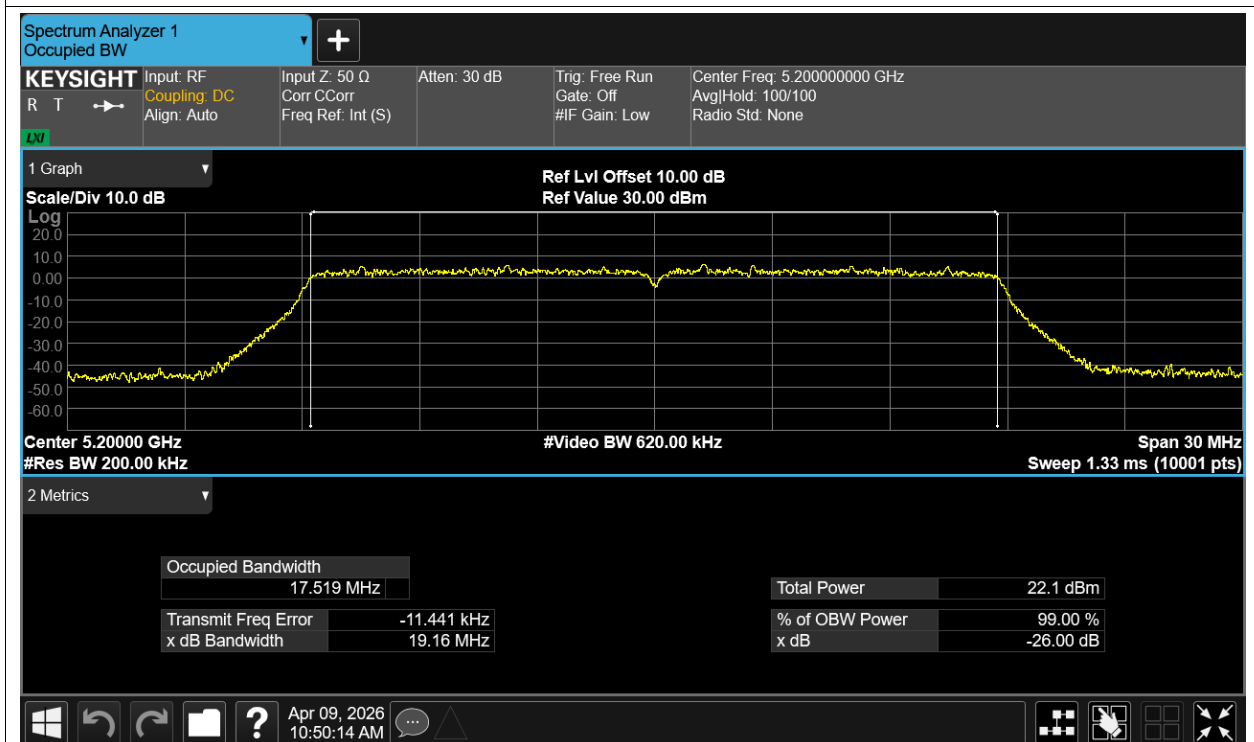
OBW NVNT n20 5180MHz Ant2



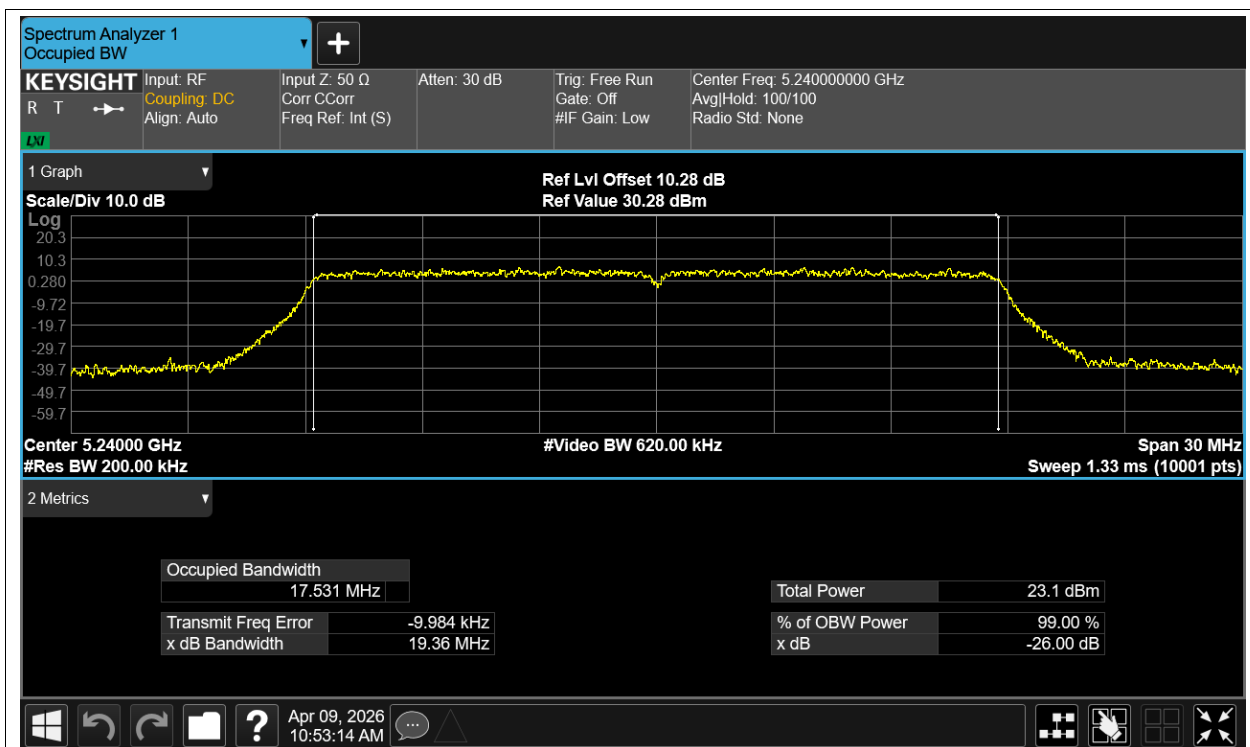
OBW NVNT n20 5200MHz Ant1



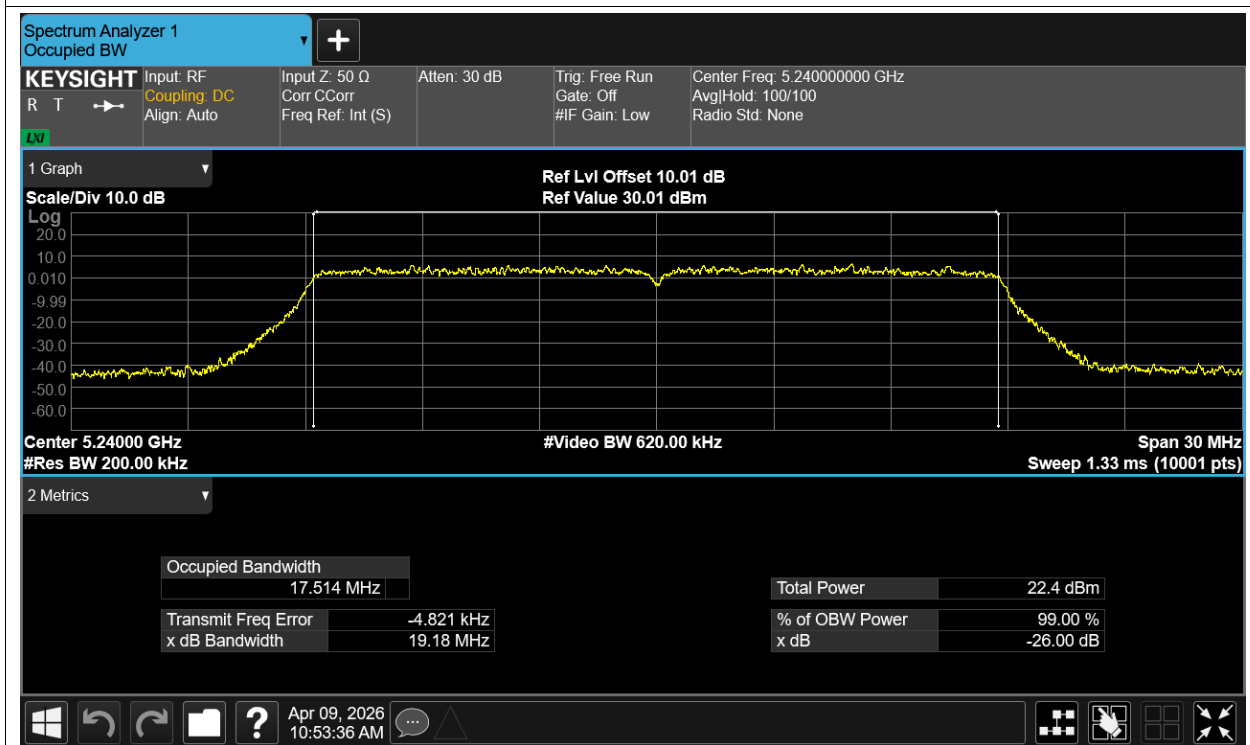
OBW NVNT n20 5200MHz Ant2



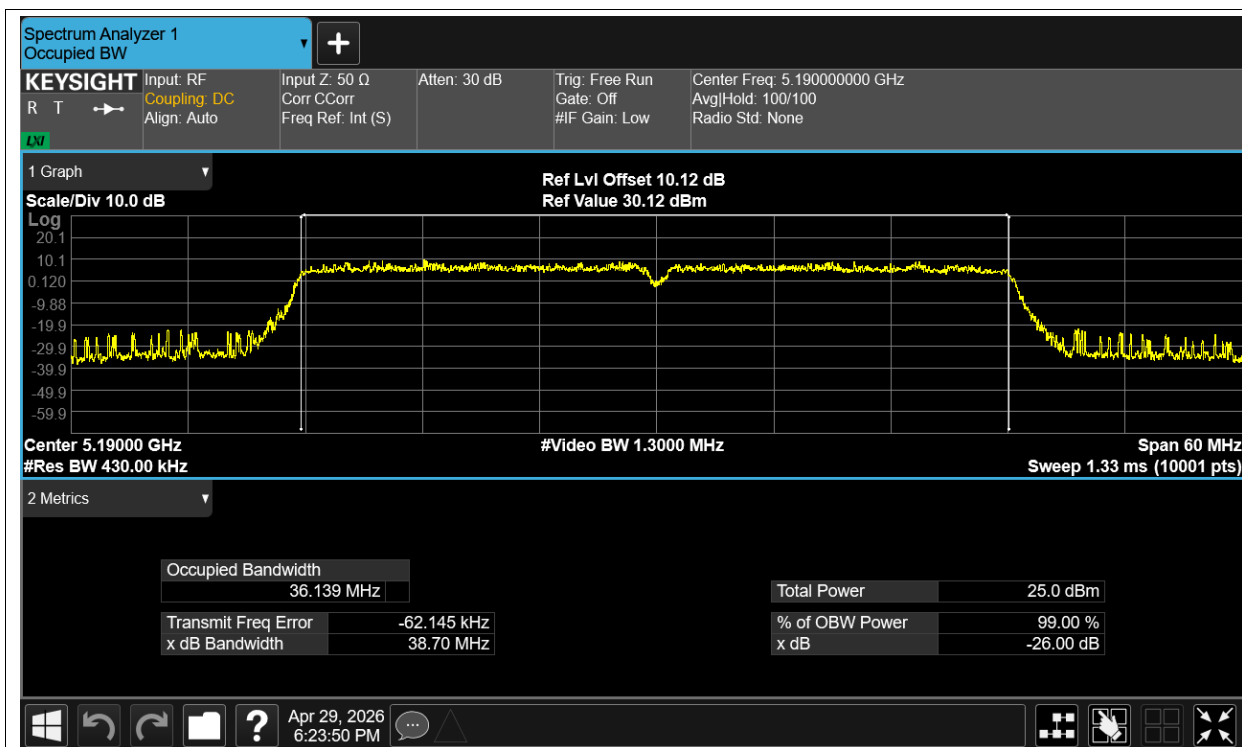
OBW NVNT n20 5240MHz Ant1



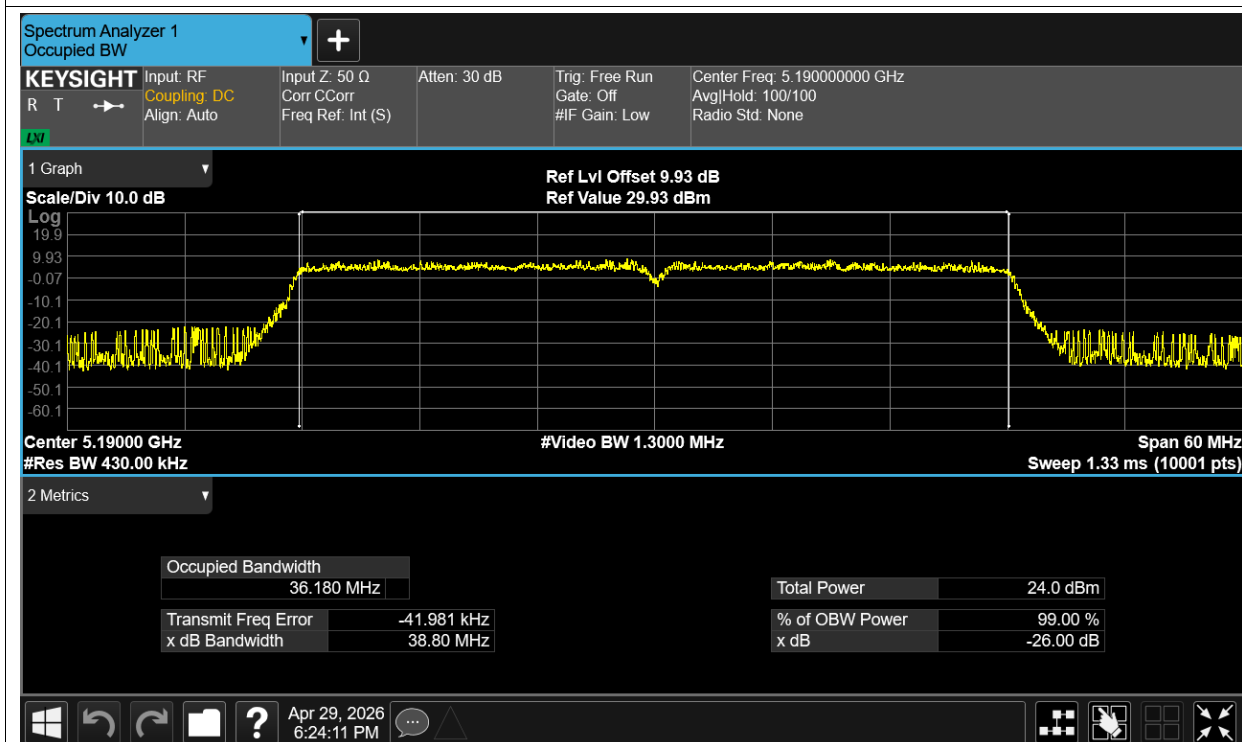
OBW NVNT n20 5240MHz Ant2



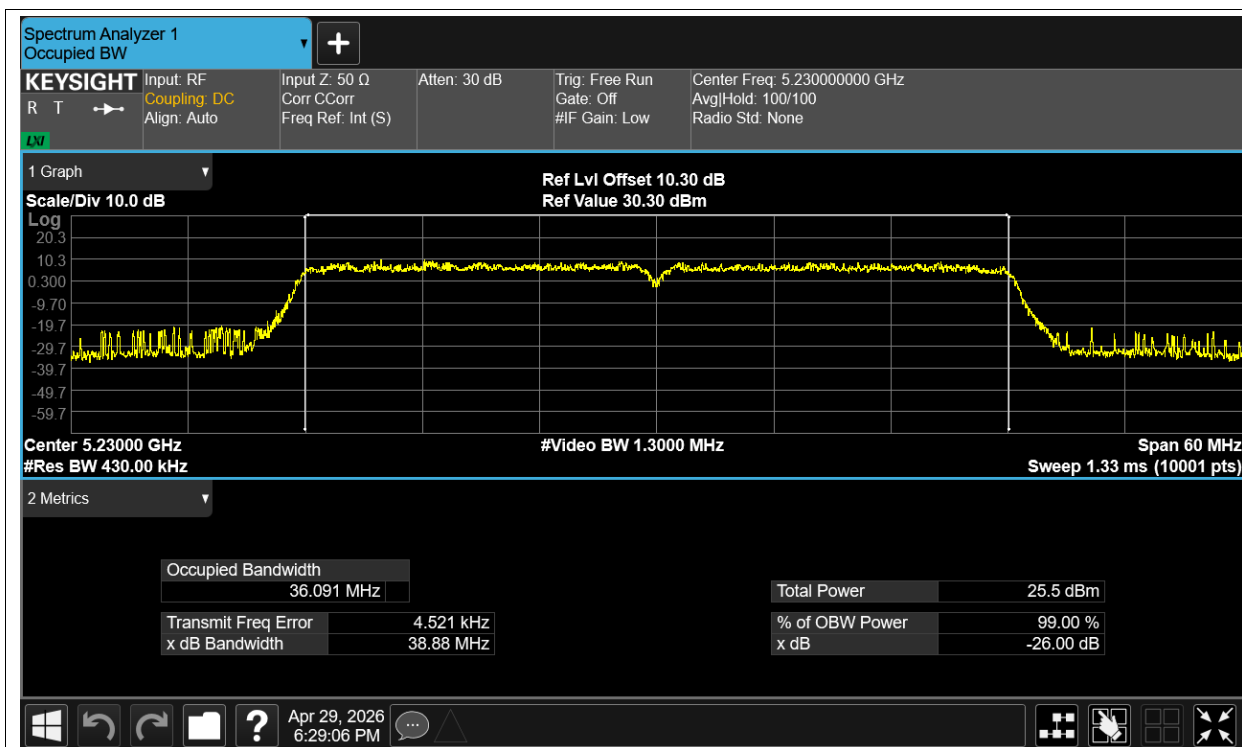
OBW NVNT n40 5190MHz Ant1



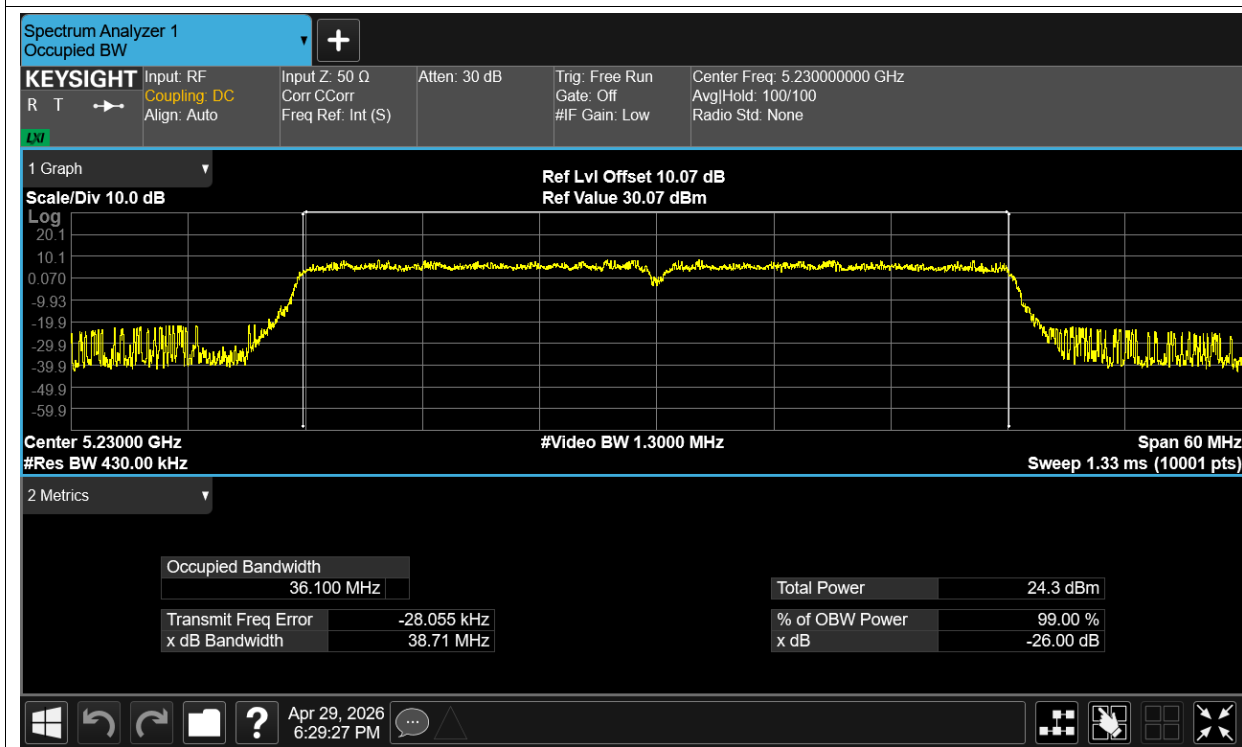
OBW NVNT n40 5190MHz Ant2



OBW NVNT n40 5230MHz Ant1



OBW NVNT n40 5230MHz Ant2



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	0.02	10.128	10.148	11	Pass
NVNT	a	5200	Ant1	0.02	10.117	10.137	11	Pass
NVNT	a	5240	Ant1	0.02	10.486	10.506	11	Pass
NVNT	a	5180	Ant2	0.02	9.754	9.774	11	Pass
NVNT	a	5200	Ant2	0.02	9.938	9.958	11	Pass
NVNT	a	5240	Ant2	0.02	9.999	10.019	11	Pass
NVNT	ac20	5180	Ant1	0.02	6.388	6.408	9.47	Pass
NVNT	ac20	5180	Ant2	0.02	5.708	5.728	9.47	Pass
NVNT	ac20	5180	Sum	0.02	9.072	9.092	9.47	Pass
NVNT	ac20	5200	Ant1	0.02	6.142	6.162	9.47	Pass
NVNT	ac20	5200	Ant2	0.02	5.872	5.892	9.47	Pass
NVNT	ac20	5200	Sum	0.02	9.019	9.039	9.47	Pass
NVNT	ac20	5240	Ant1	0.02	4.559	4.579	9.47	Pass
NVNT	ac20	5240	Ant2	0.02	6.341	6.361	9.47	Pass
NVNT	ac20	5240	Sum	0.02	8.551	8.571	9.47	Pass
NVNT	ac40	5190	Ant1	0.04	5.471	5.511	9.47	Pass
NVNT	ac40	5190	Ant2	0.04	4.748	4.788	9.47	Pass
NVNT	ac40	5190	Sum	0.04	8.135	8.175	9.47	Pass
NVNT	ac40	5230	Ant1	0.04	5.909	5.949	9.47	Pass
NVNT	ac40	5230	Ant2	0.04	4.728	4.768	9.47	Pass
NVNT	ac40	5230	Sum	0.04	8.369	8.409	9.47	Pass
NVNT	ac80	5210	Ant1	0.08	2.501	2.581	9.47	Pass
NVNT	ac80	5210	Ant2	0.08	1.21	1.29	9.47	Pass
NVNT	ac80	5210	Sum	0.08	4.914	4.994	9.47	Pass
NVNT	ax20	5180	Ant1	0.02	6.108	6.128	9.47	Pass
NVNT	ax20	5180	Ant2	0.02	5.748	5.768	9.47	Pass
NVNT	ax20	5180	Sum	0.02	8.942	8.962	9.47	Pass
NVNT	ax20	5200	Ant1	0.02	6.047	6.067	9.47	Pass
NVNT	ax20	5200	Ant2	0.02	5.644	5.664	9.47	Pass
NVNT	ax20	5200	Sum	0.02	8.86	8.88	9.47	Pass
NVNT	ax20	5240	Ant1	0.02	6.539	6.559	9.47	Pass
NVNT	ax20	5240	Ant2	0.02	5.895	5.915	9.47	Pass
NVNT	ax20	5240	Sum	0.02	9.239	9.259	9.47	Pass
NVNT	ax40	5190	Ant1	0.04	5.407	5.447	9.47	Pass
NVNT	ax40	5190	Ant2	0.04	4.482	4.522	9.47	Pass
NVNT	ax40	5190	Sum	0.04	7.979	8.019	9.47	Pass
NVNT	ax40	5230	Ant1	0.04	5.99	6.03	9.47	Pass
NVNT	ax40	5230	Ant2	0.04	4.828	4.868	9.47	Pass
NVNT	ax40	5230	Sum	0.04	8.458	8.498	9.47	Pass
NVNT	ax80	5210	Ant1	0.08	2.67	2.75	9.47	Pass

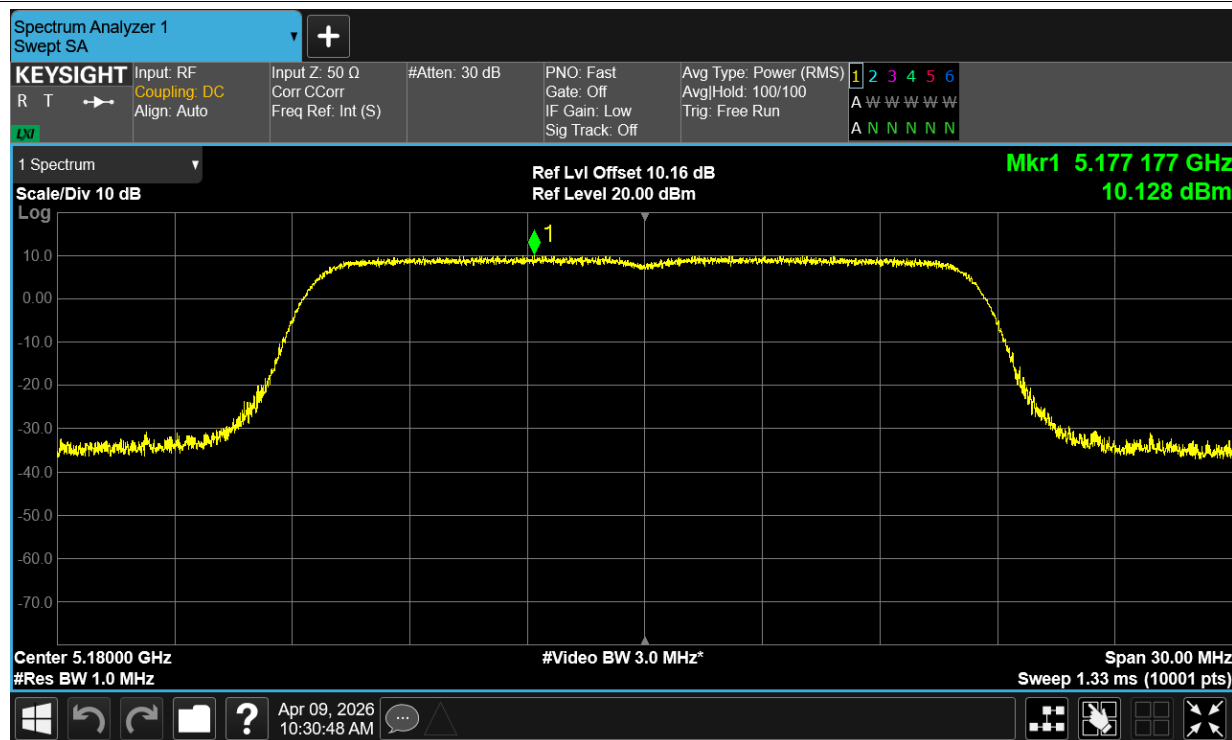
NVNT	ax80	5210	Ant2	0.08	1.147	1.227	9.47	Pass
NVNT	ax80	5210	Sum	0.08	4.985	5.065	9.47	Pass
NVNT	n20	5180	Ant1	0.02	6.049	6.069	9.47	Pass
NVNT	n20	5180	Ant2	0.02	5.75	5.77	9.47	Pass
NVNT	n20	5180	Sum	0.02	8.912	8.932	9.47	Pass
NVNT	n20	5200	Ant1	0.02	6.313	6.333	9.47	Pass
NVNT	n20	5200	Ant2	0.02	5.705	5.725	9.47	Pass
NVNT	n20	5200	Sum	0.02	9.03	9.05	9.47	Pass
NVNT	n20	5240	Ant1	0.02	4.444	4.464	9.47	Pass
NVNT	n20	5240	Ant2	0.02	6.356	6.376	9.47	Pass
NVNT	n20	5240	Sum	0.02	8.515	8.535	9.47	Pass
NVNT	n40	5190	Ant1	0.04	5.357	5.397	9.47	Pass
NVNT	n40	5190	Ant2	0.04	4.699	4.739	9.47	Pass
NVNT	n40	5190	Sum	0.04	8.051	8.091	9.47	Pass
NVNT	n40	5230	Ant1	0.04	5.967	6.007	9.47	Pass
NVNT	n40	5230	Ant2	0.04	4.872	4.912	9.47	Pass
NVNT	n40	5230	Sum	0.04	8.464	8.504	9.47	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

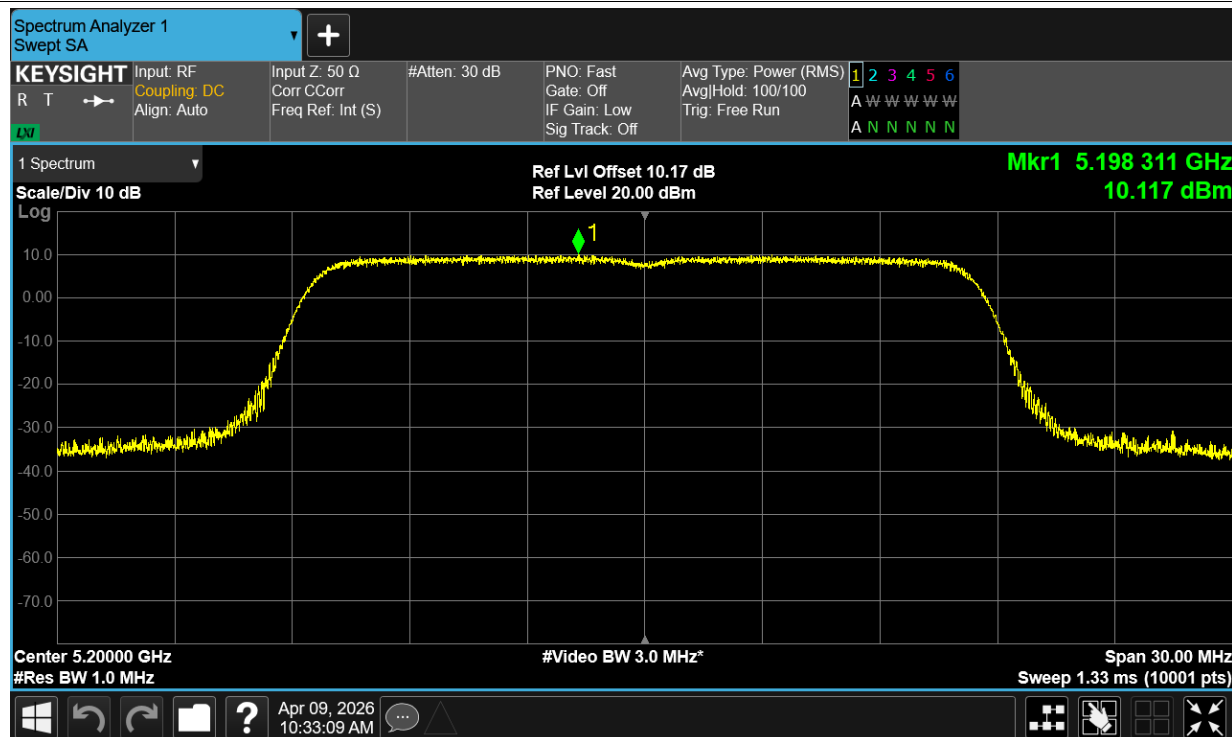
For MIMO mode: ant gain is $4.52+10*\log_{10}(2)=4.52+3.01=7.53$ dBi, the limit is $11-(7.53-6)=9.47$ dbm.

Test Graphs

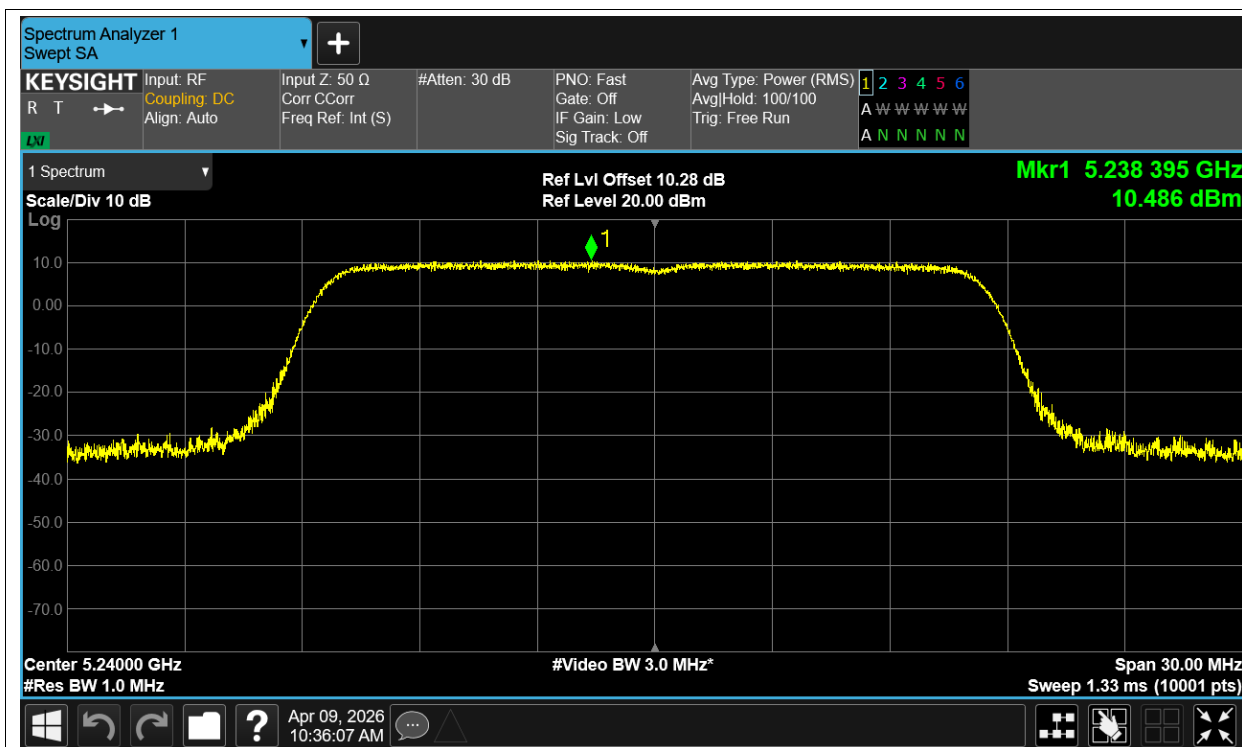
PSD NVNT a 5180MHz Ant1



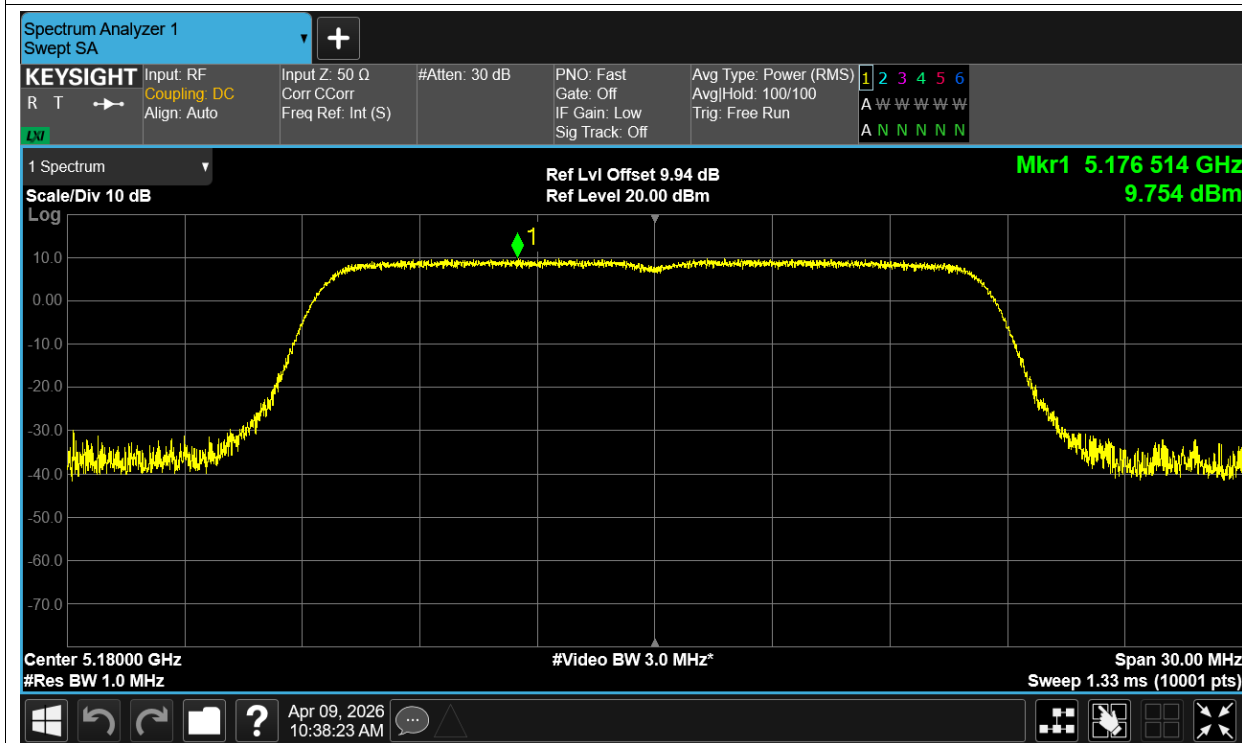
PSD NVNT a 5200MHz Ant1



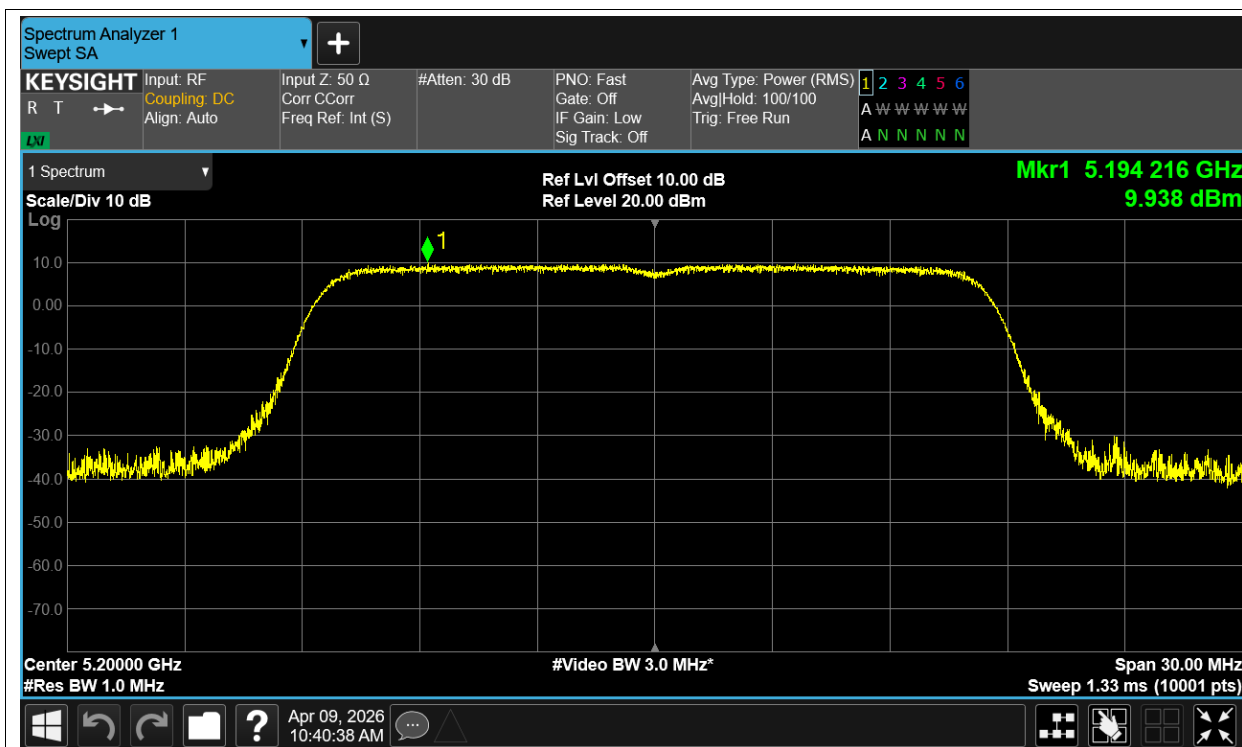
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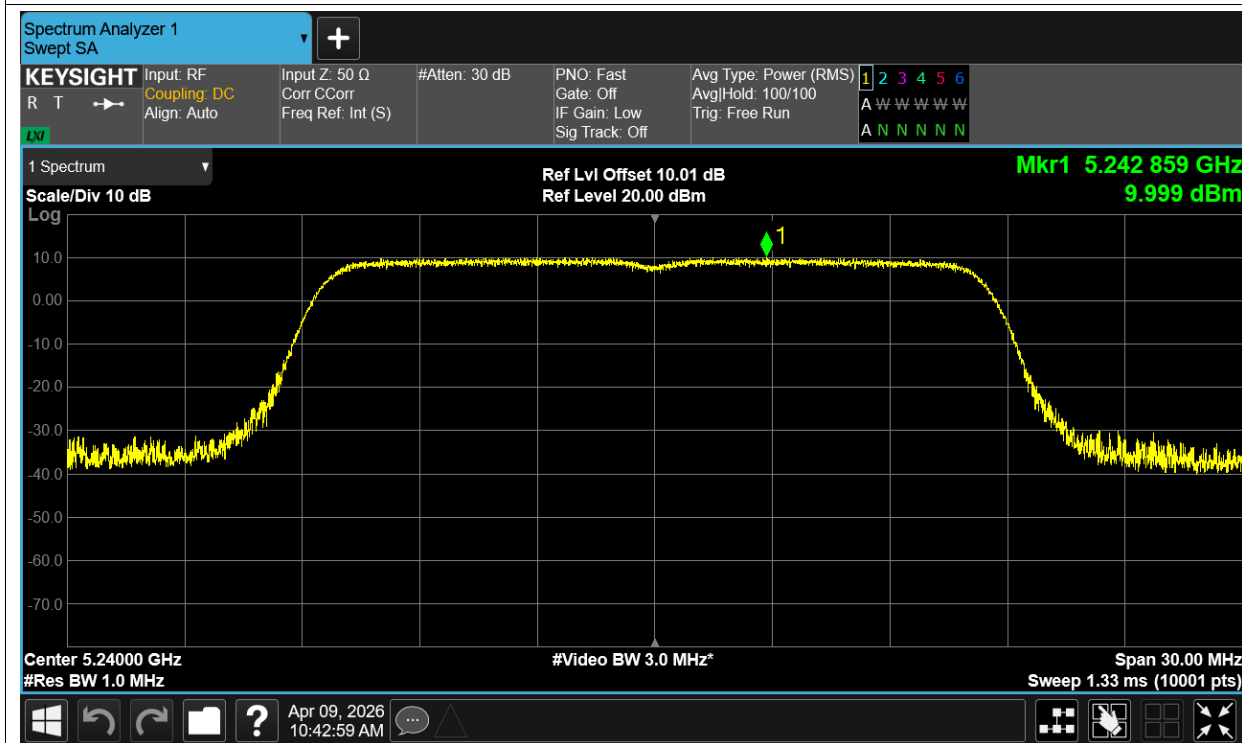
PSD NVNT a 5180MHz Ant2



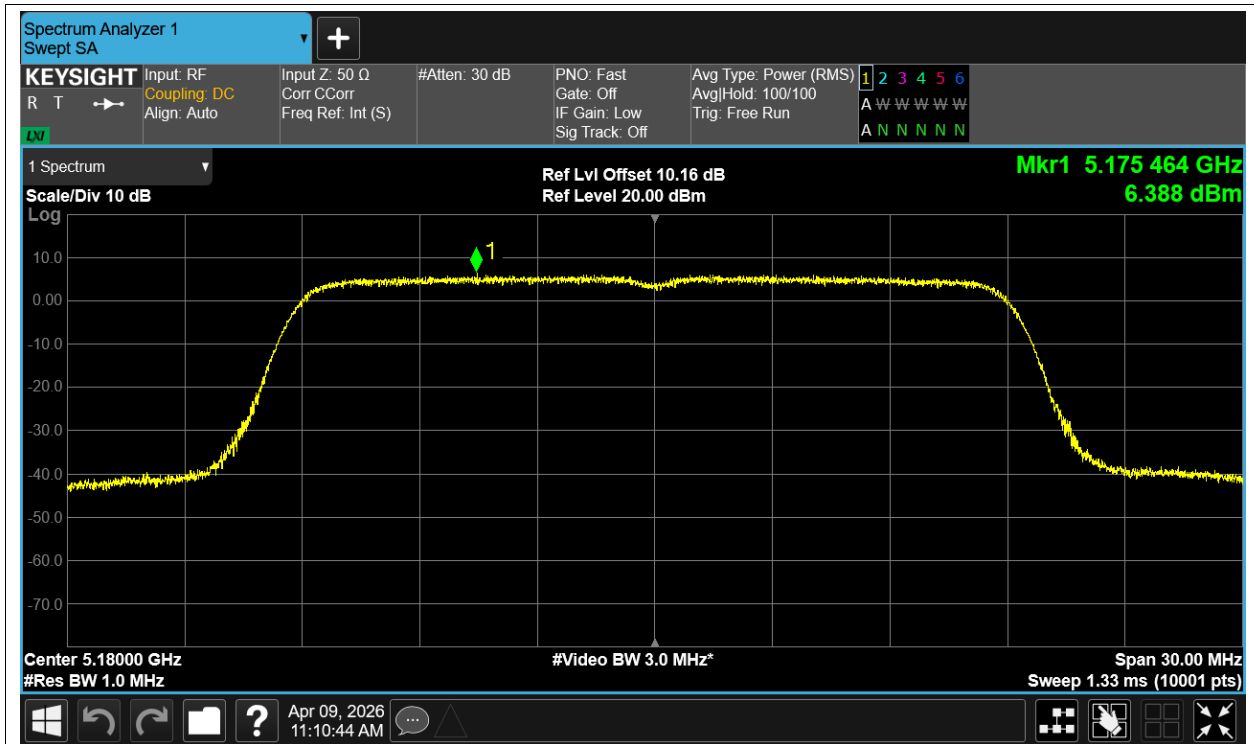
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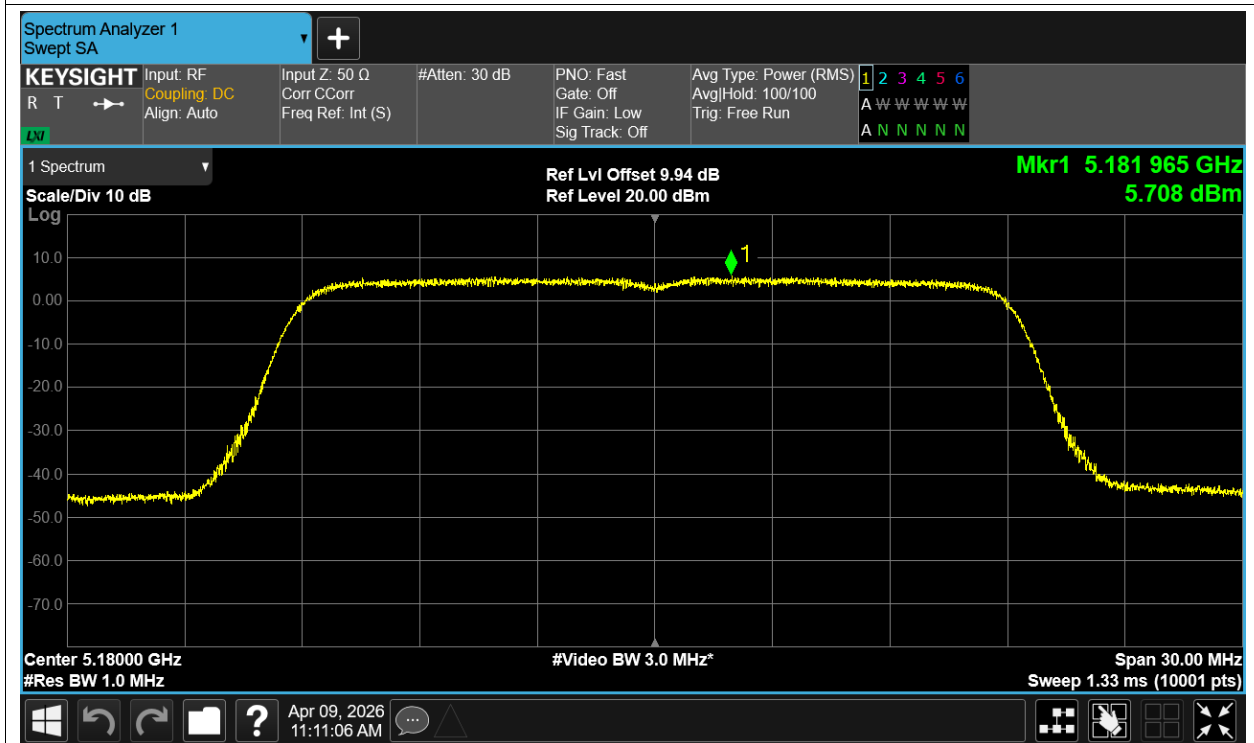
PSD NVNT a 5240MHz Ant2



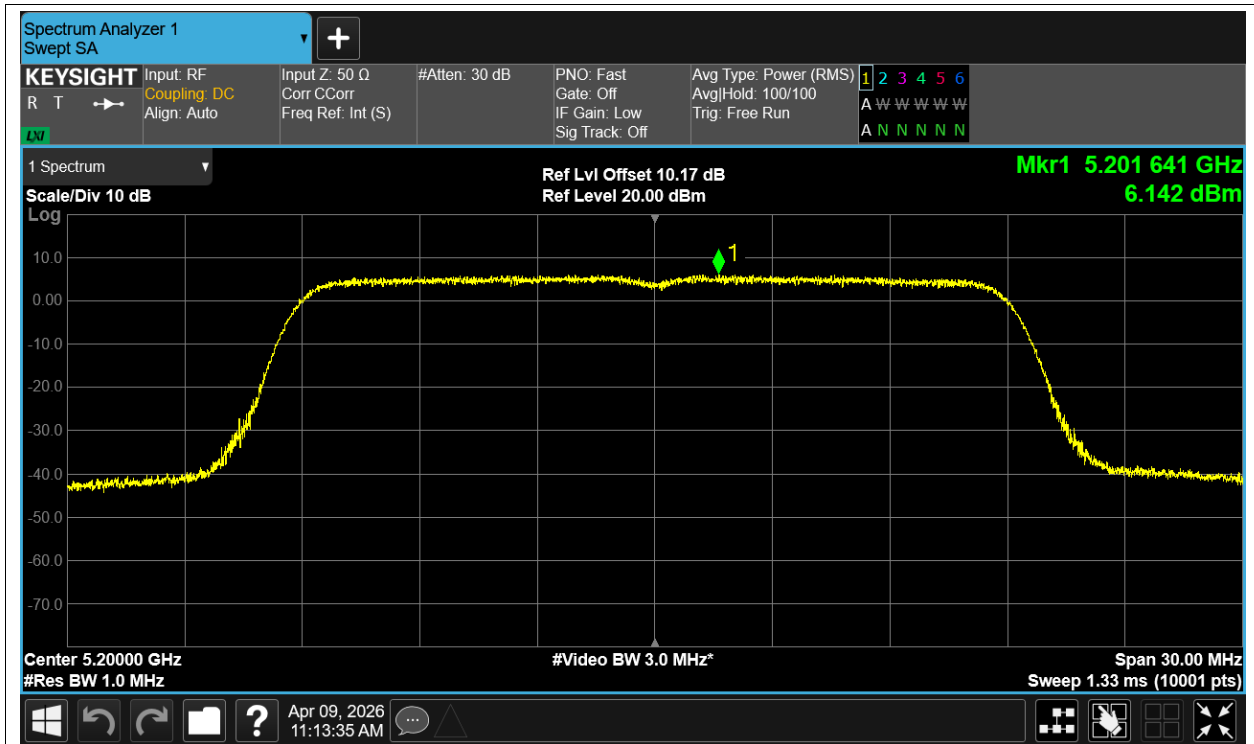
PSD NVNT ac20 5180MHz Ant1



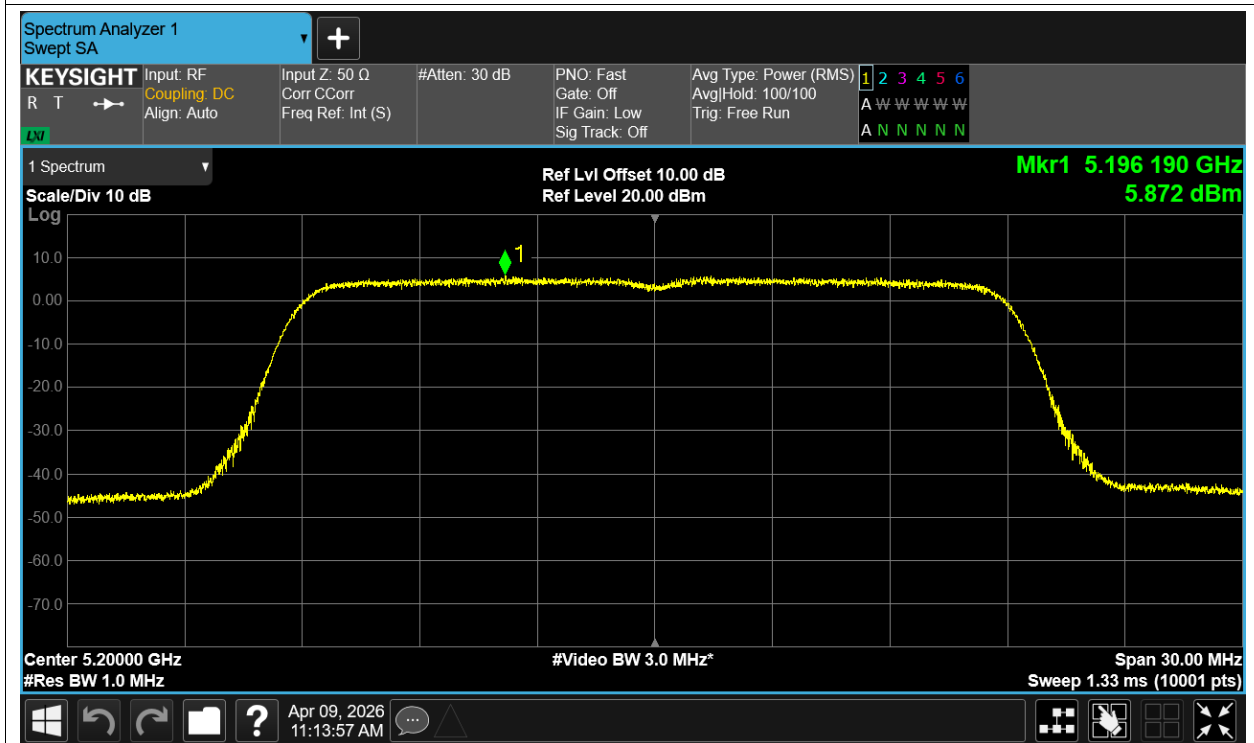
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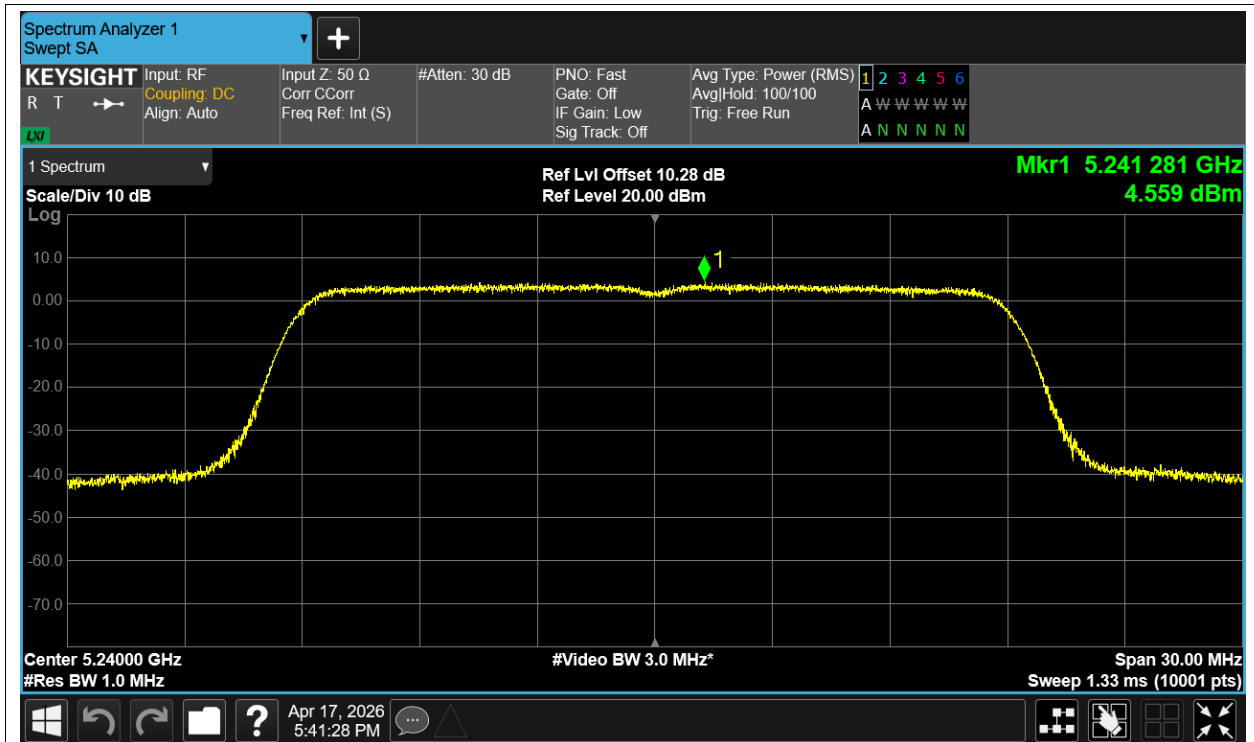
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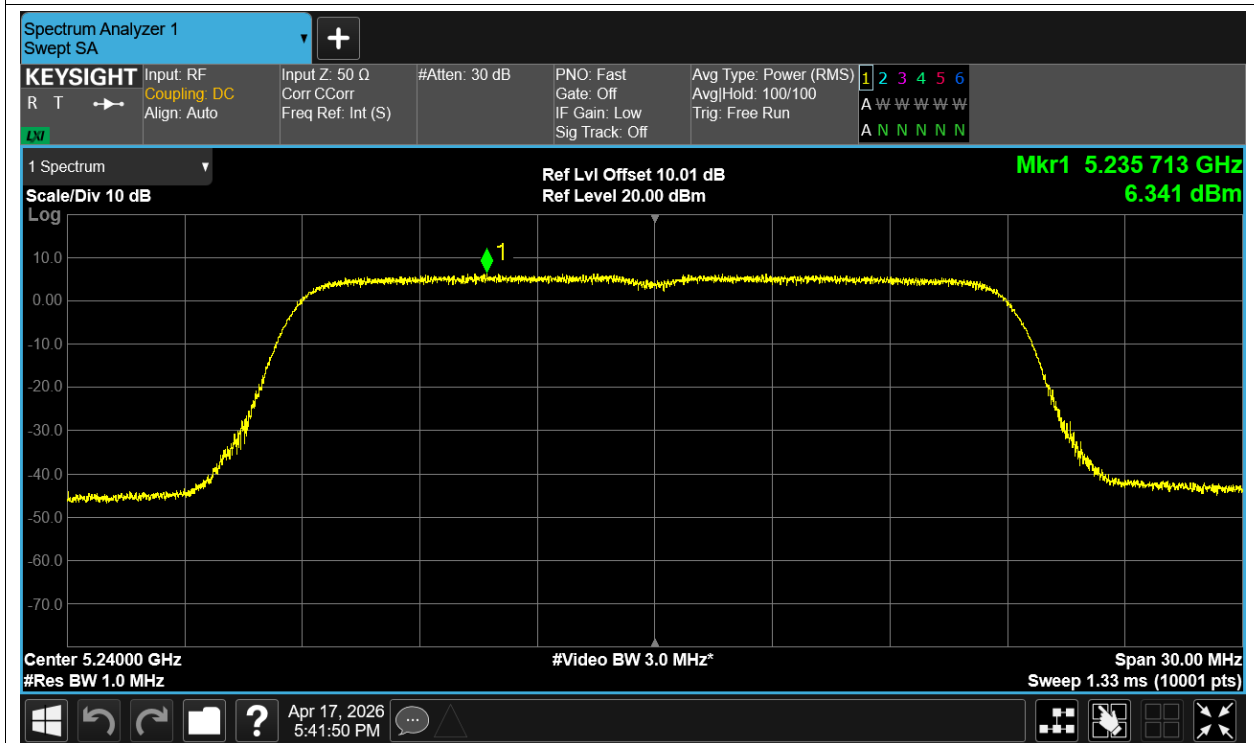
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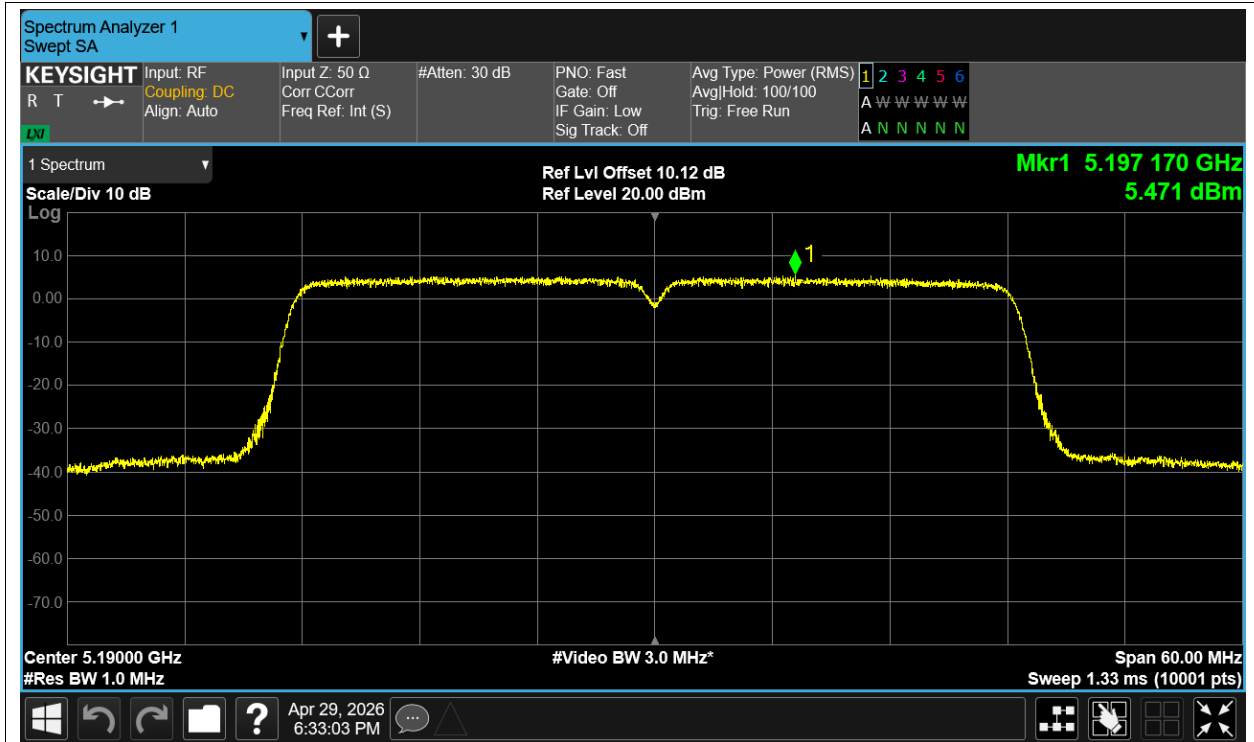
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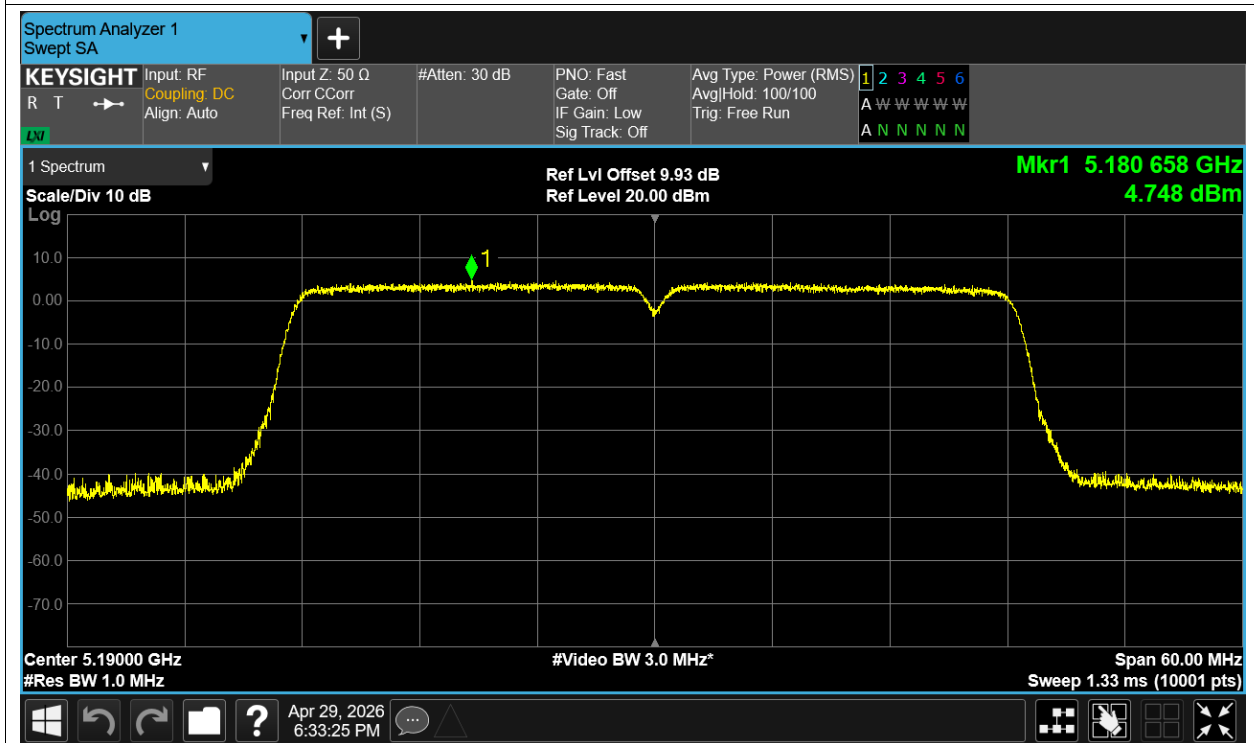
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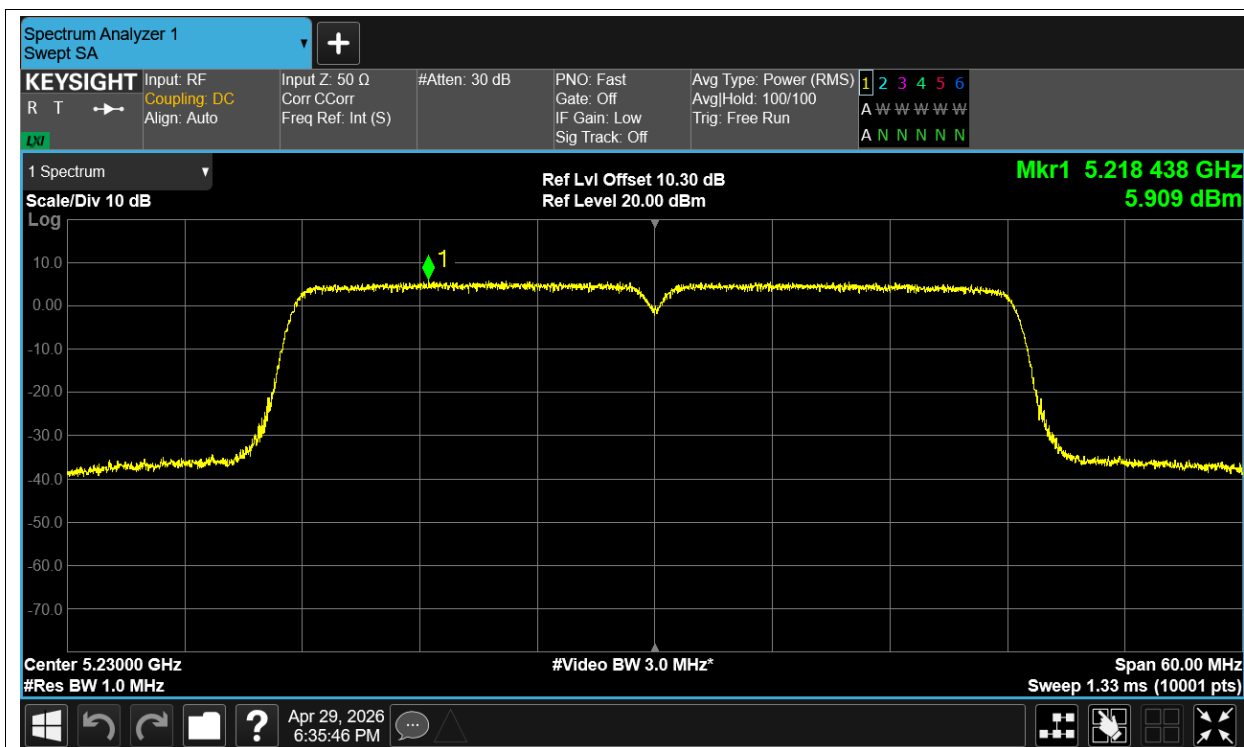
PSD NVNT ac40 5190MHz Ant1



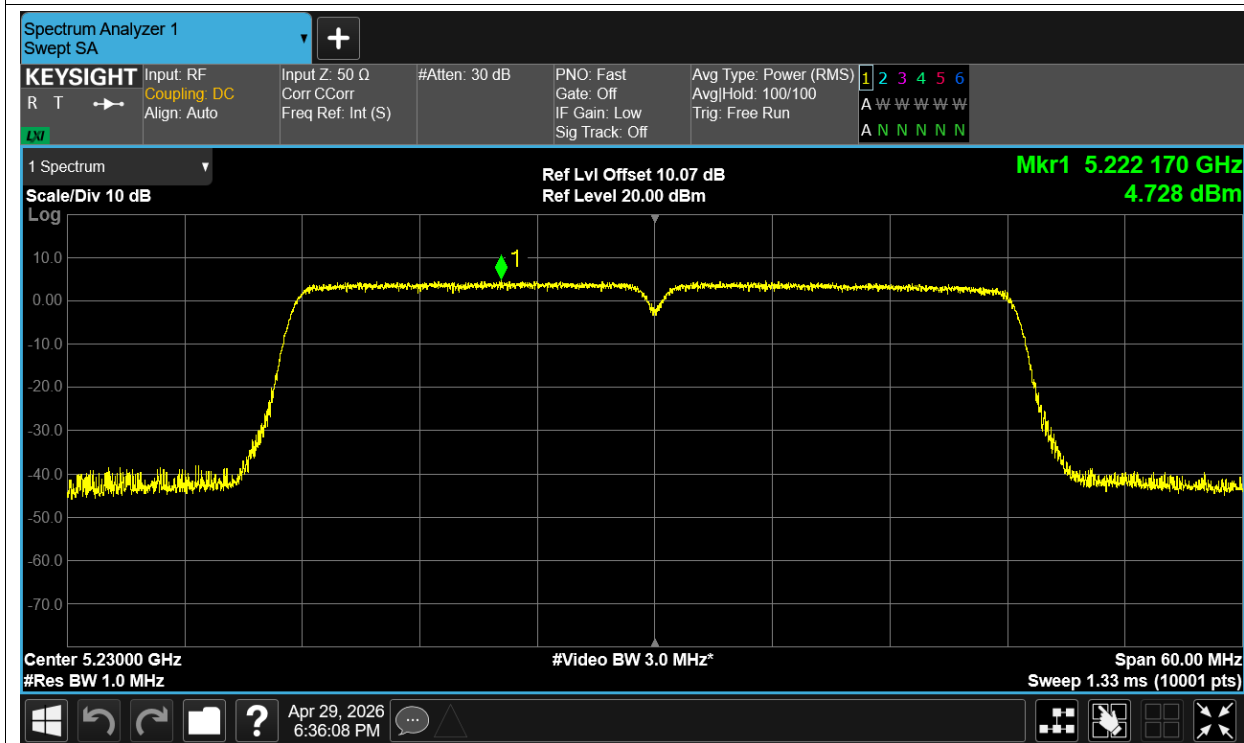
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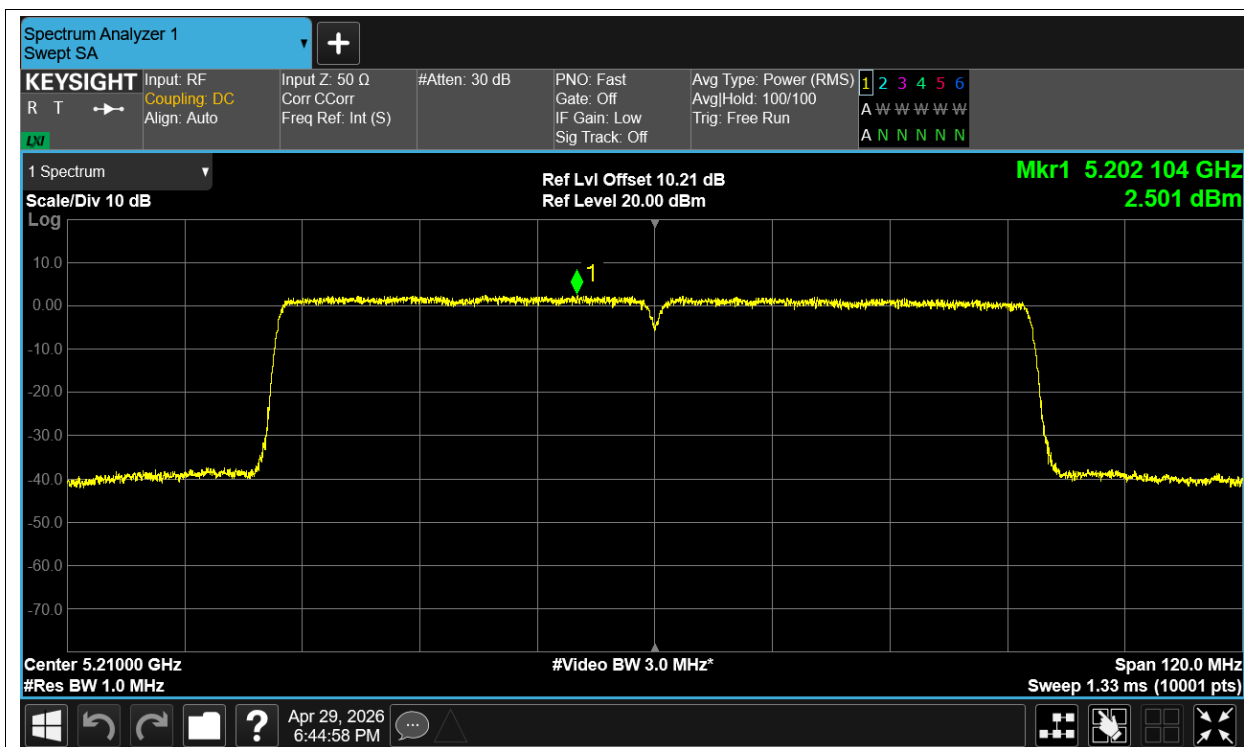
PSD NVNT ac40 5230MHz Ant1



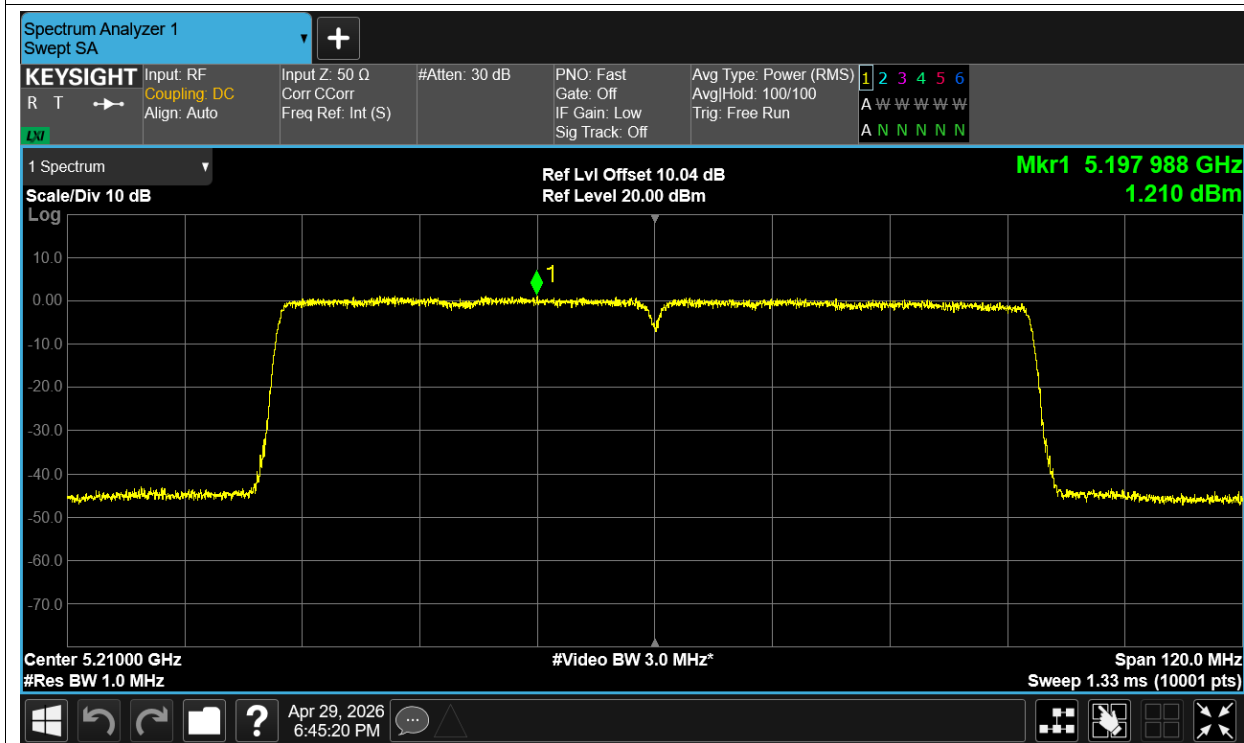
PSD NVNT ac40 5230MHz Ant2



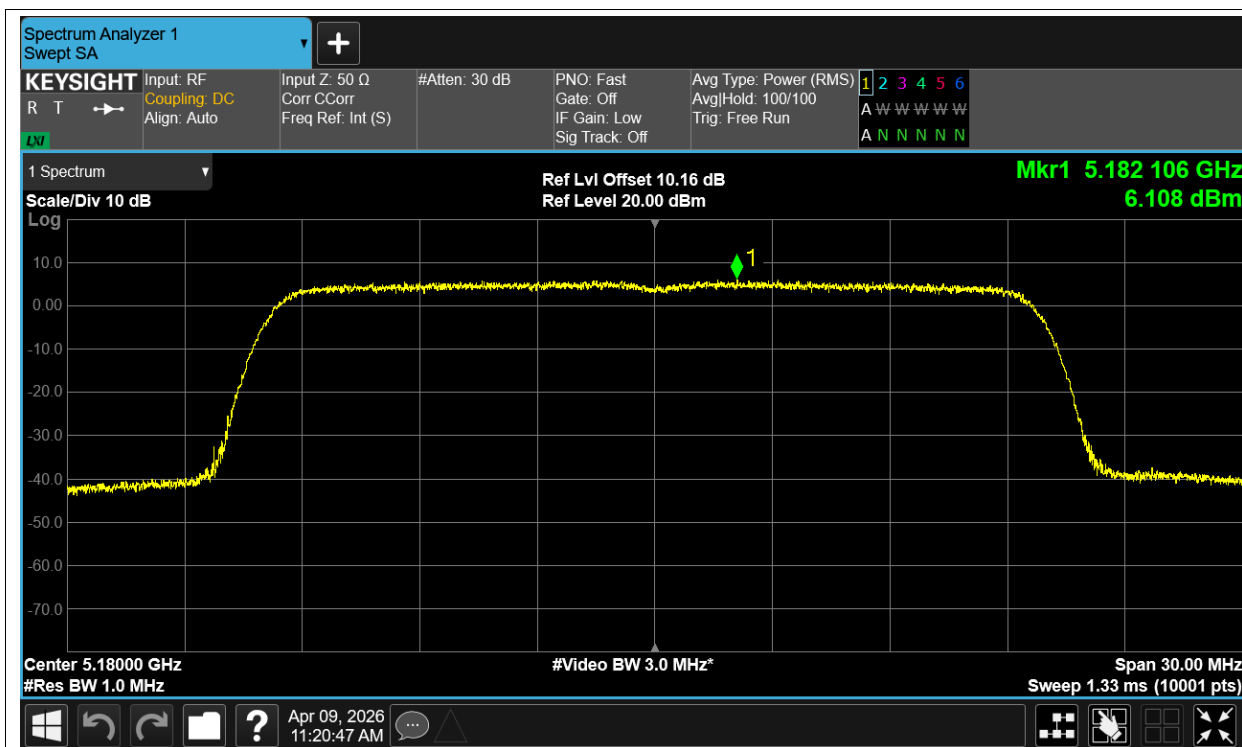
PSD NVNT ac80 5210MHz Ant1



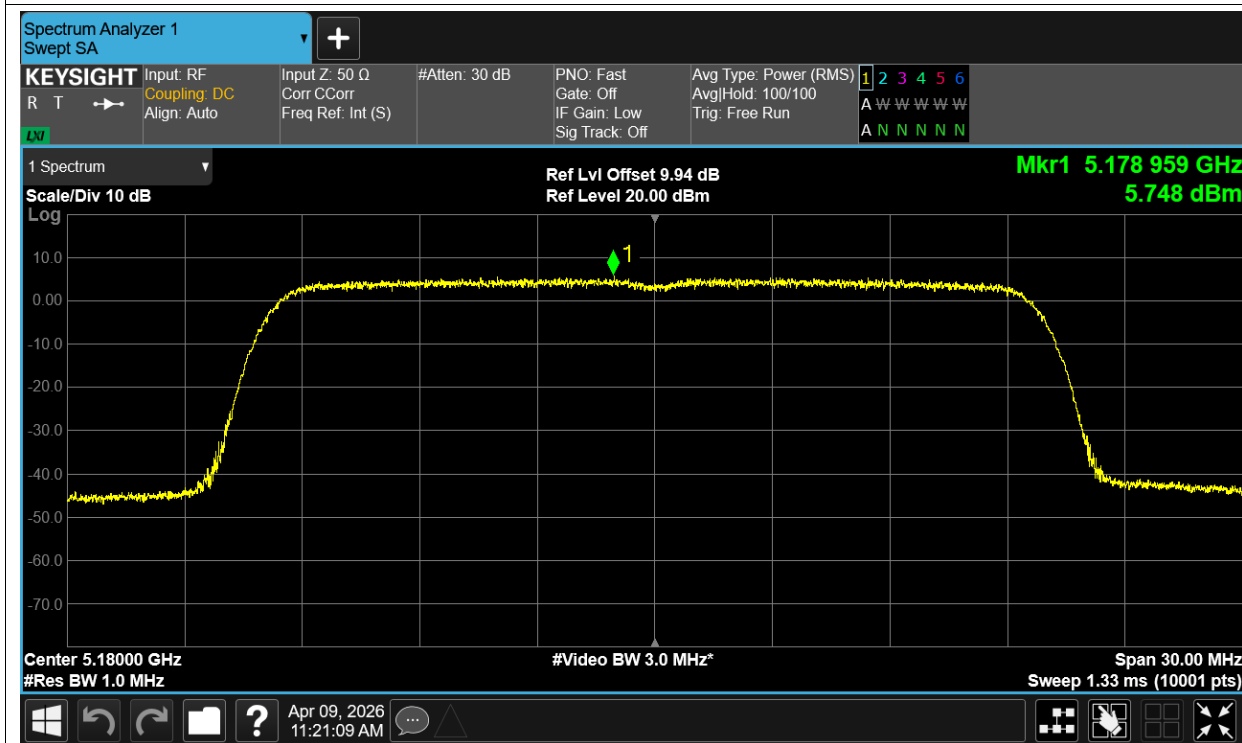
PSD NVNT ac80 5210MHz Ant2



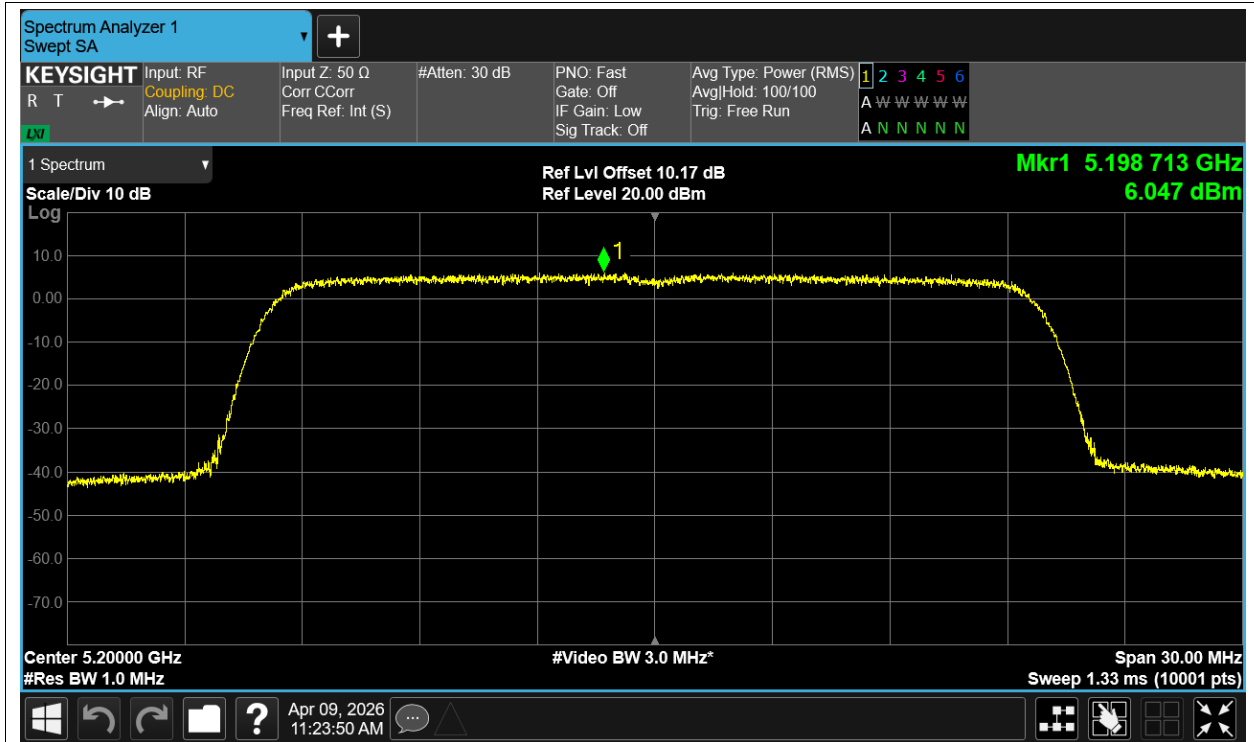
PSD NVNT ax20 5180MHz Ant1



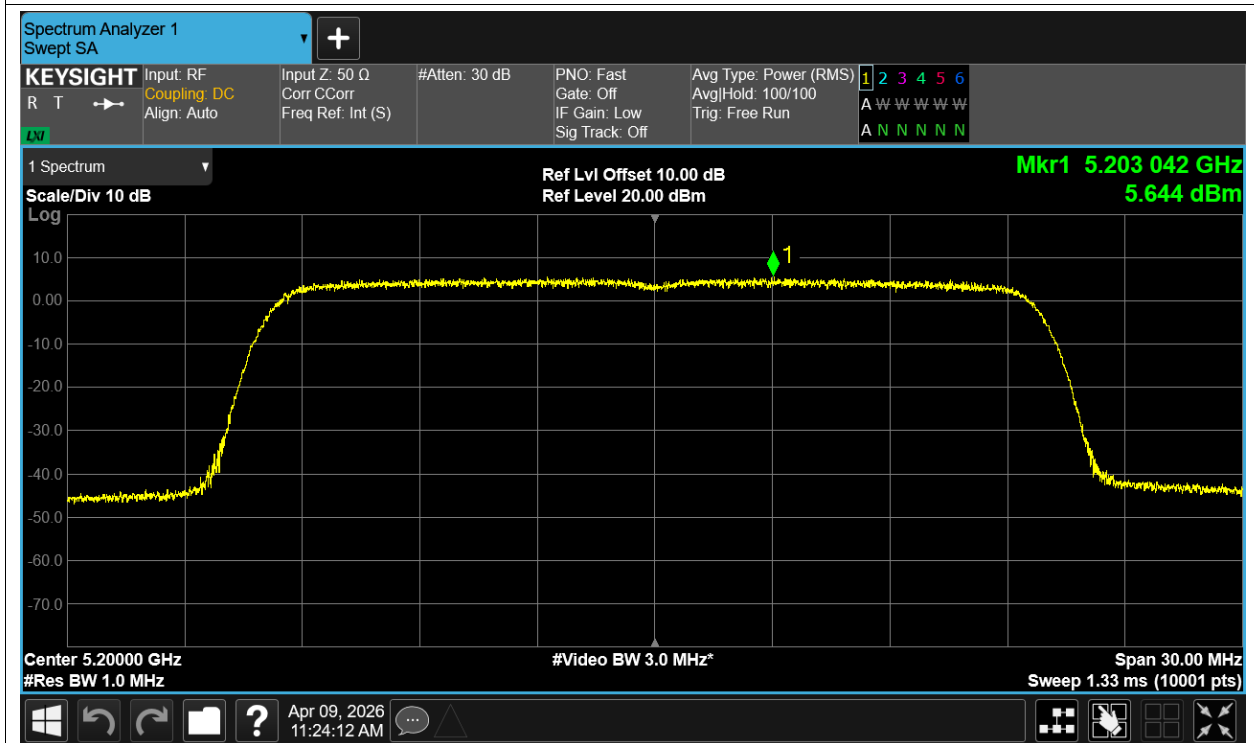
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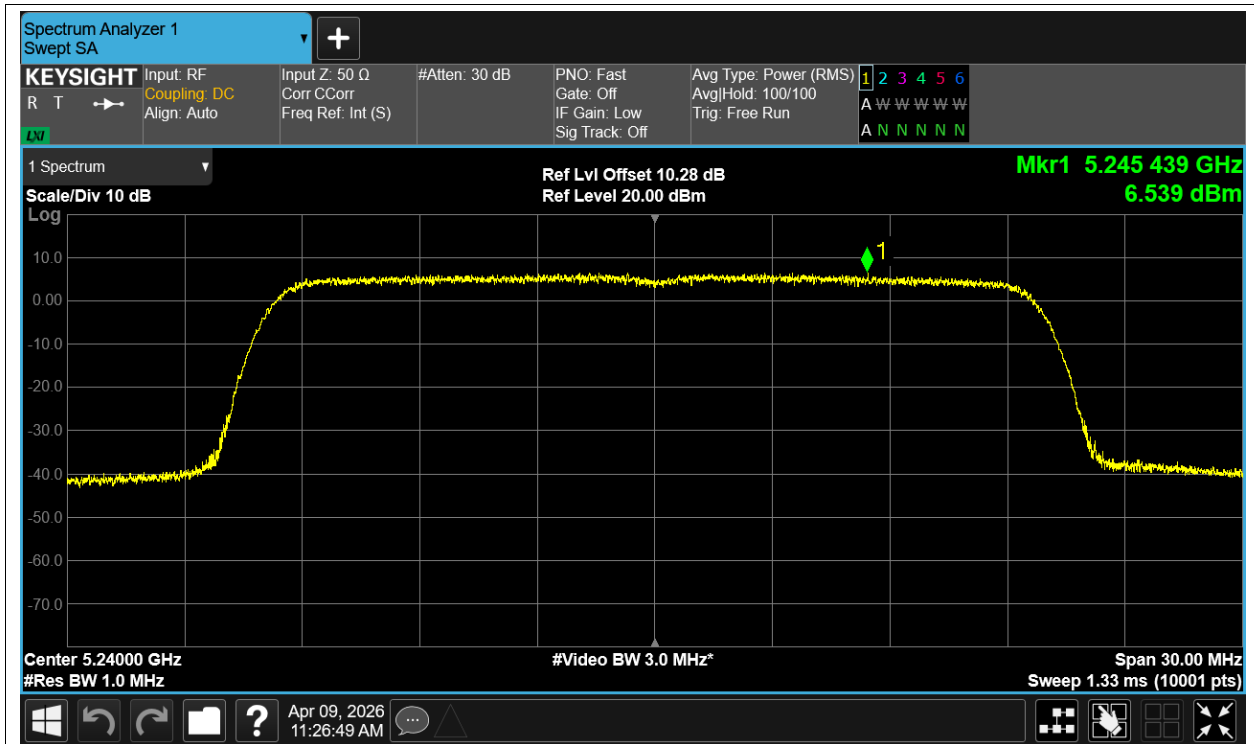
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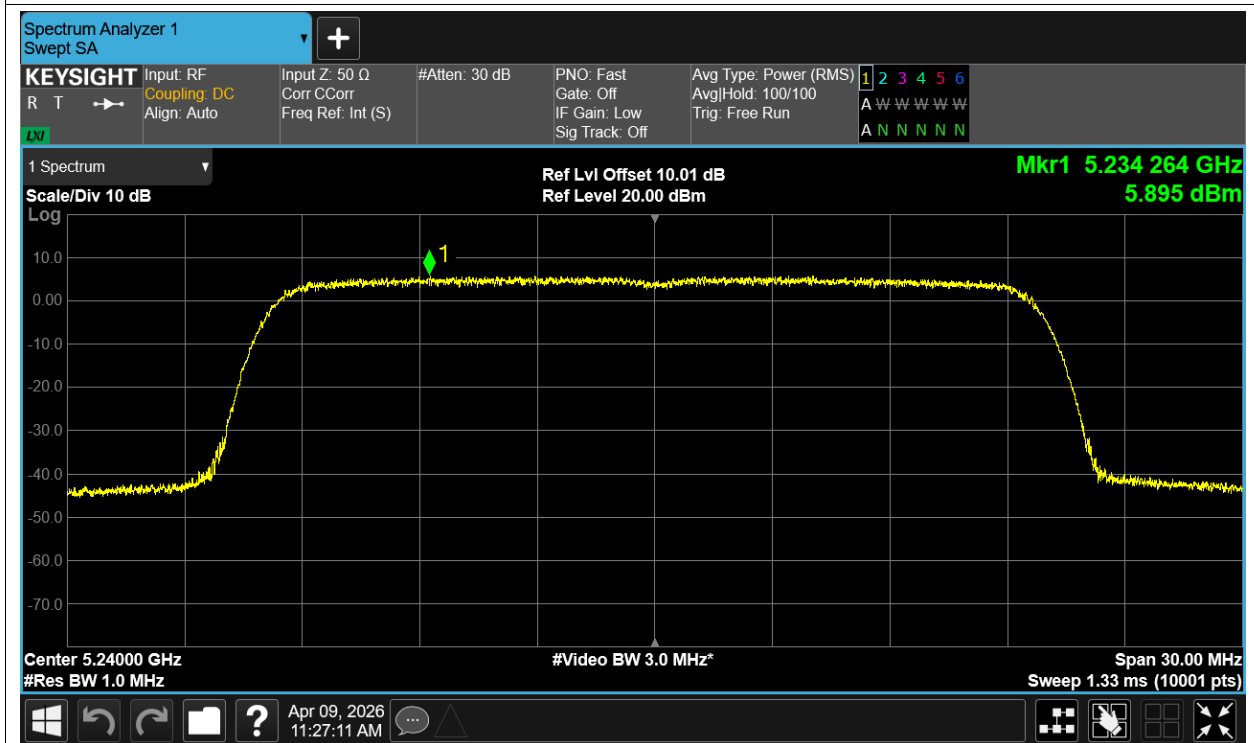
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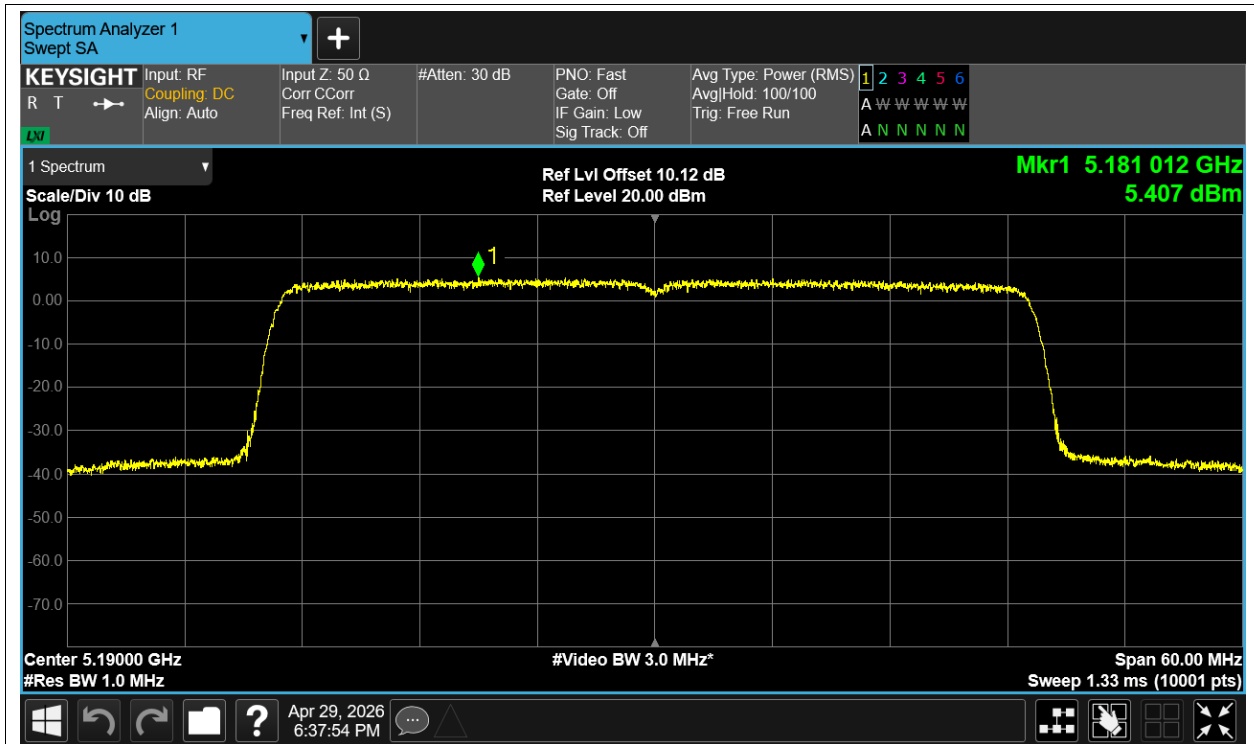
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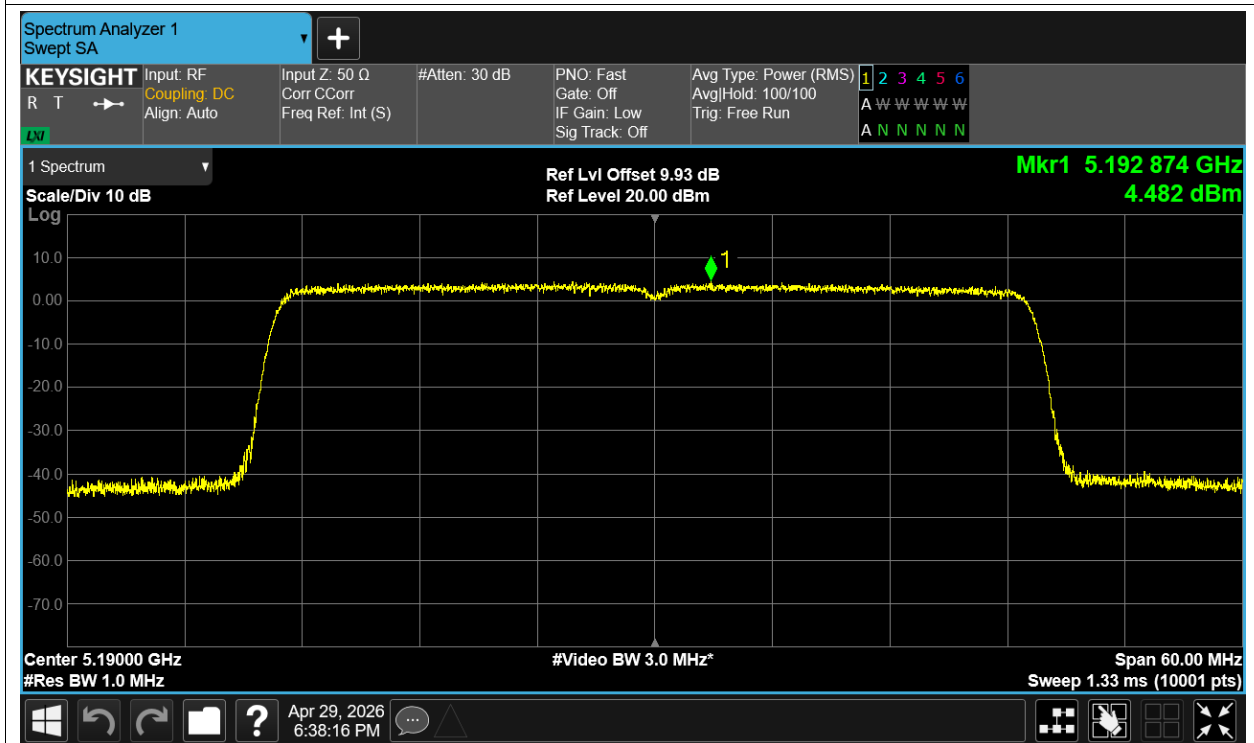
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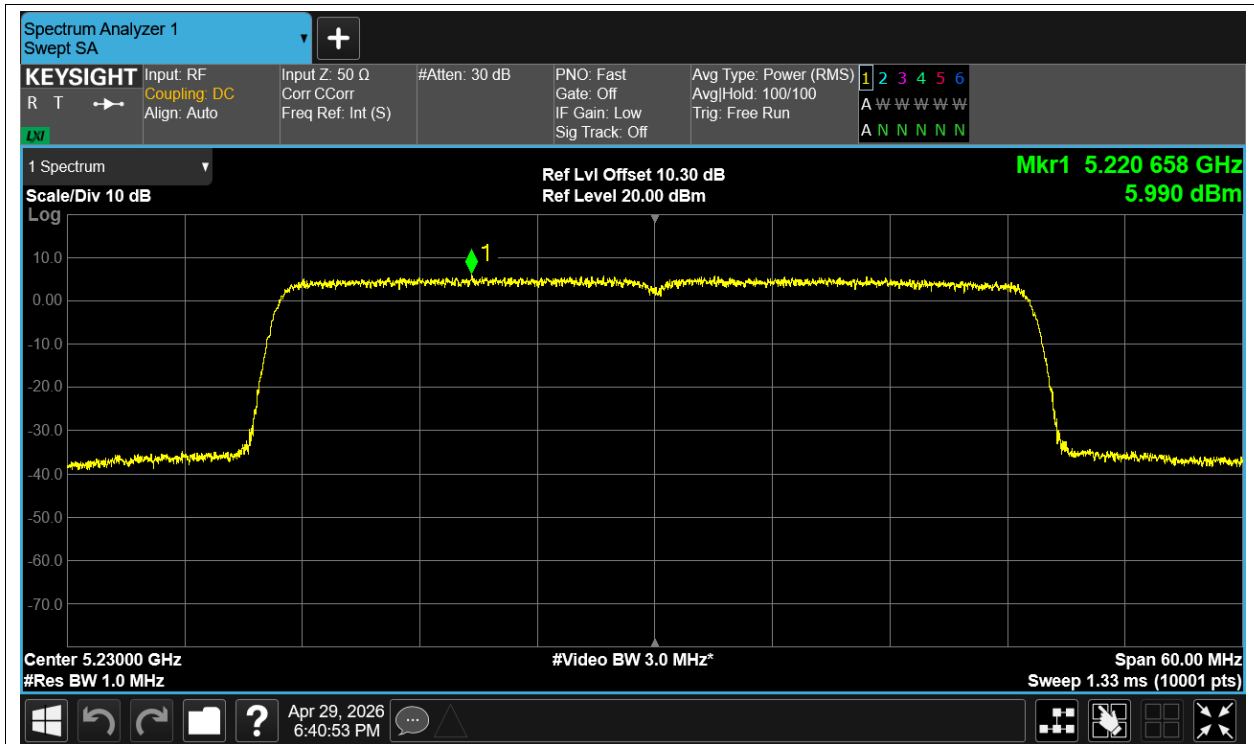
PSD NVNT ax40 5190MHz Ant1



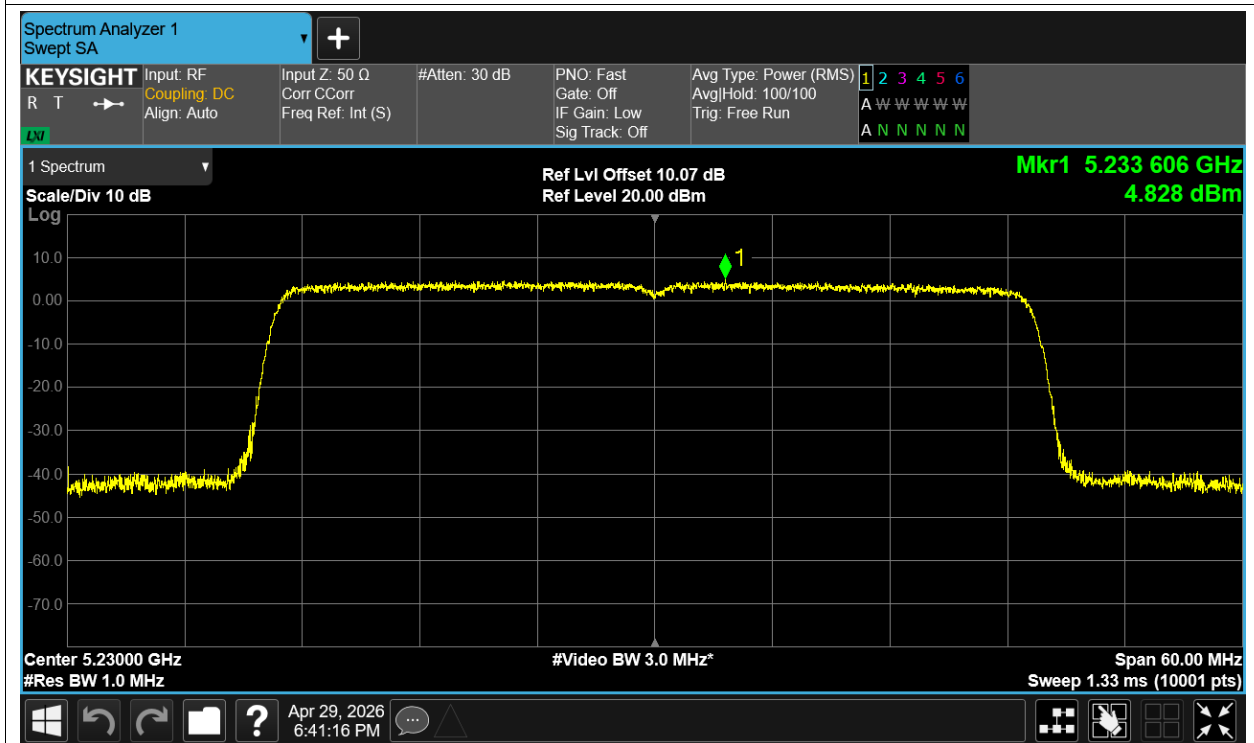
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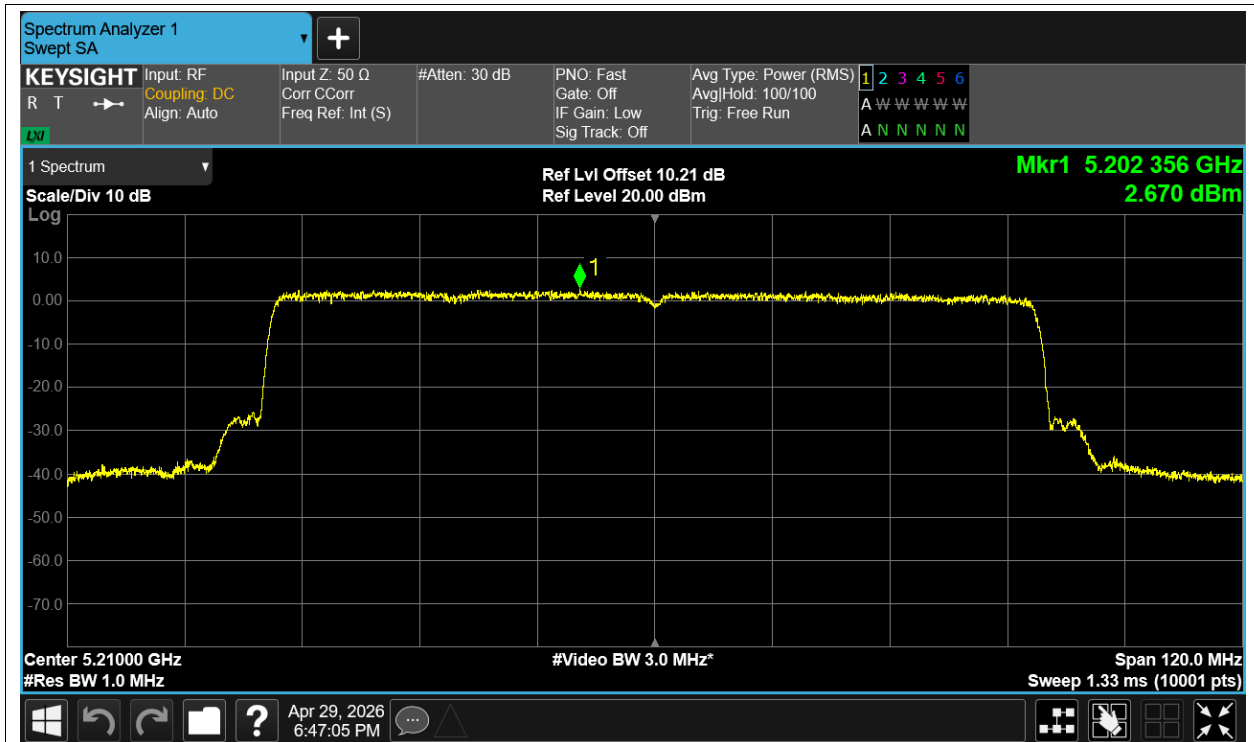
PSD NVNT ax40 5230MHz Ant1



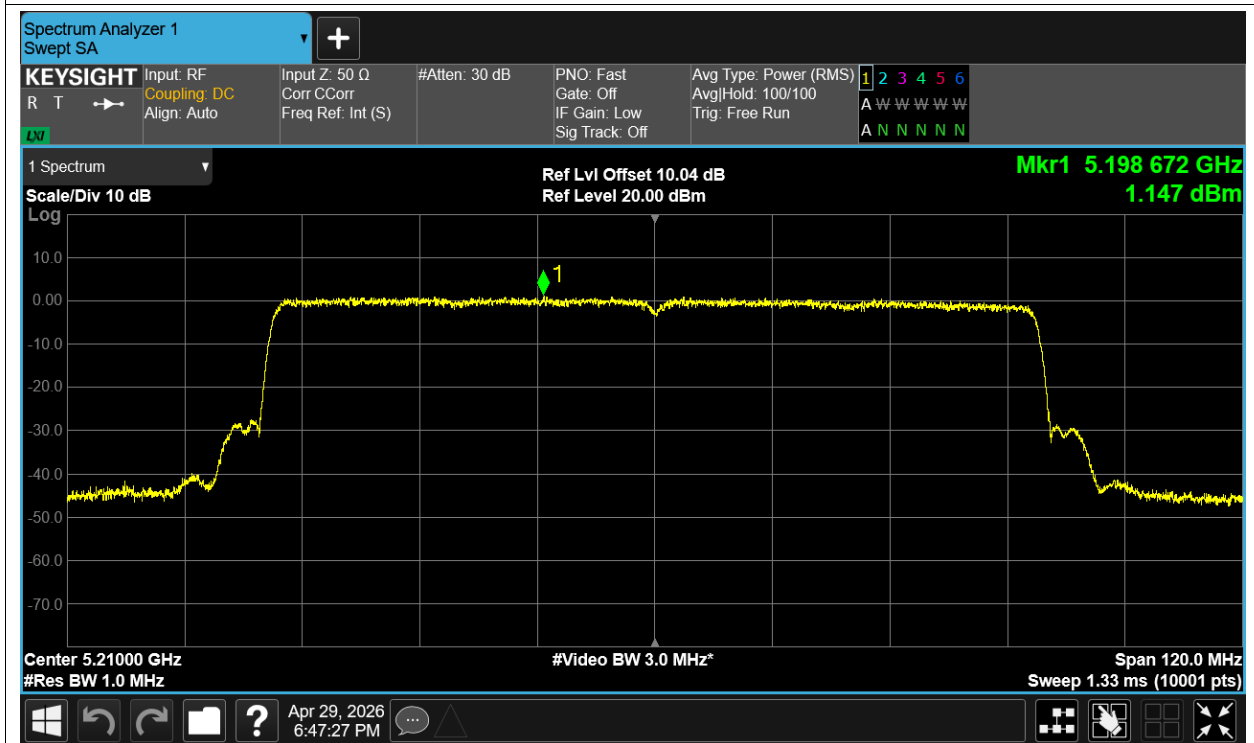
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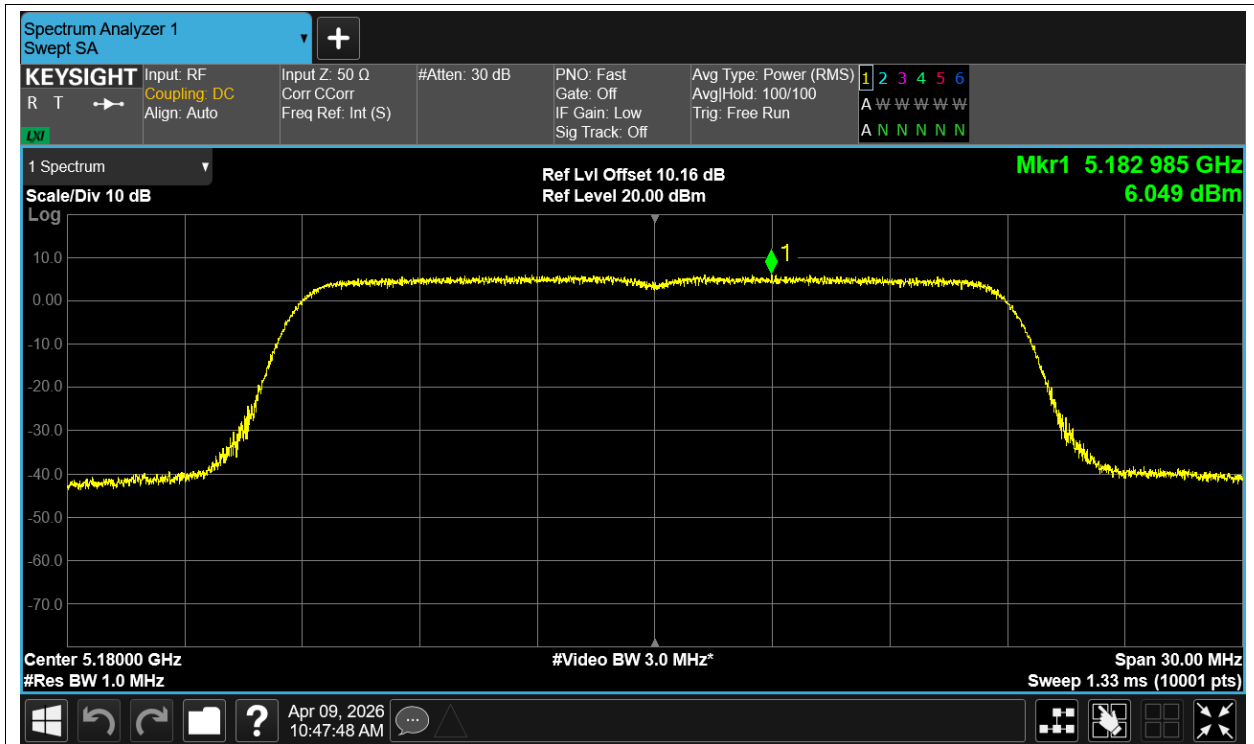
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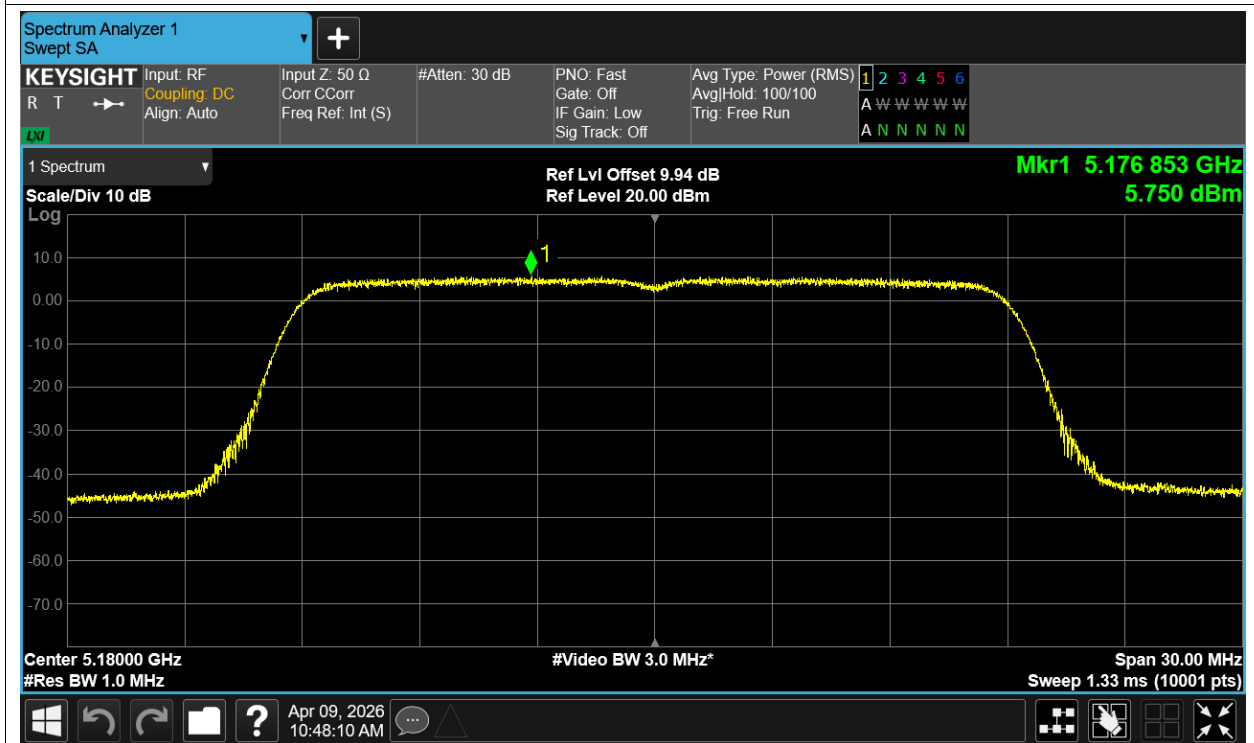
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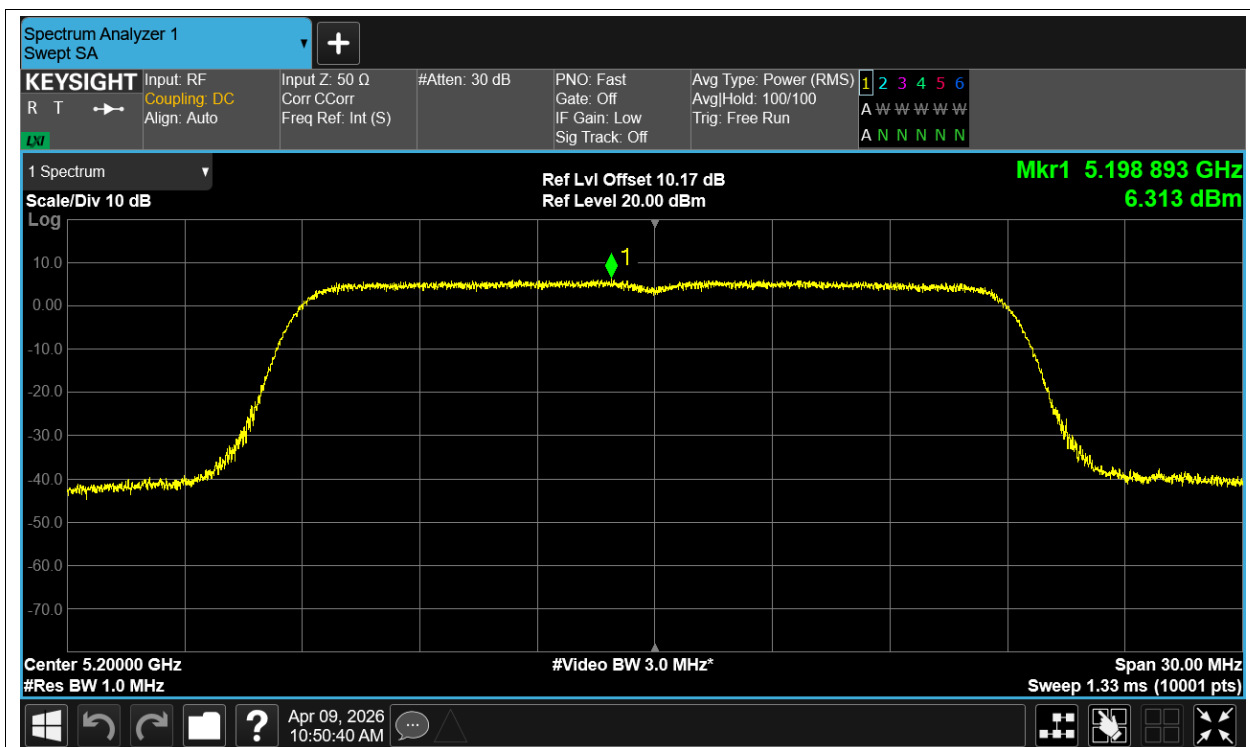
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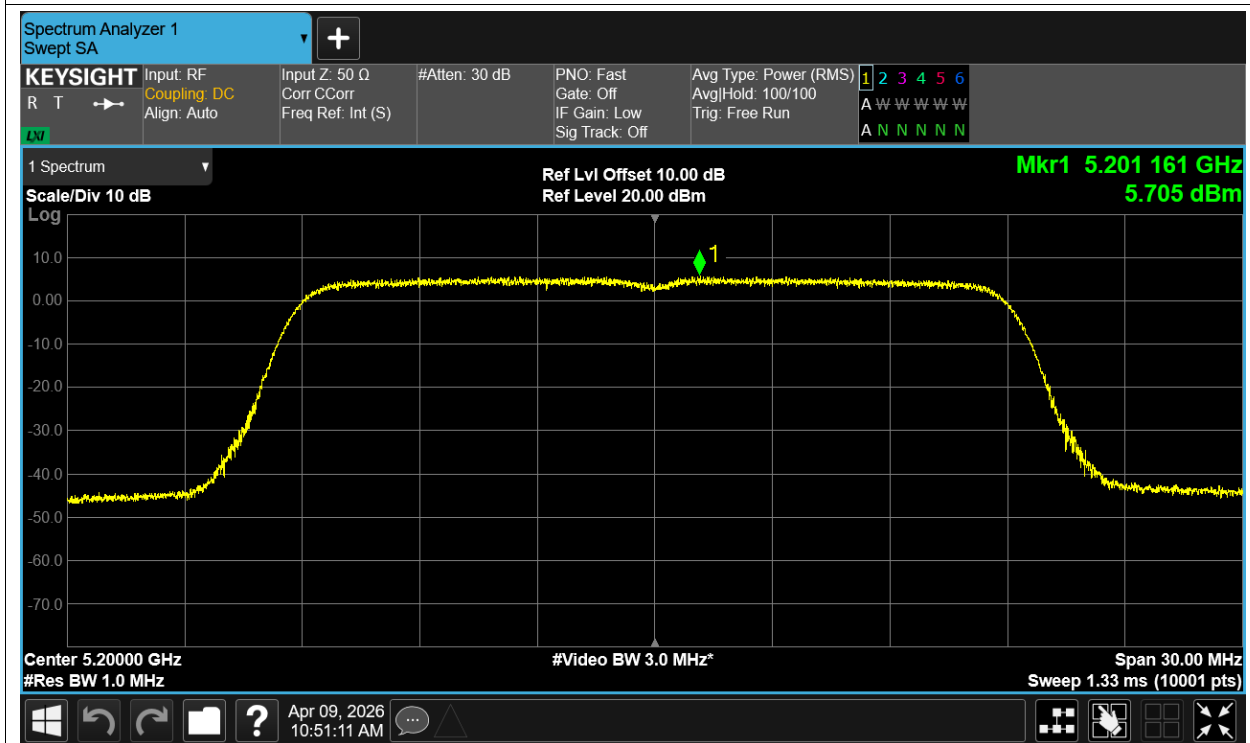
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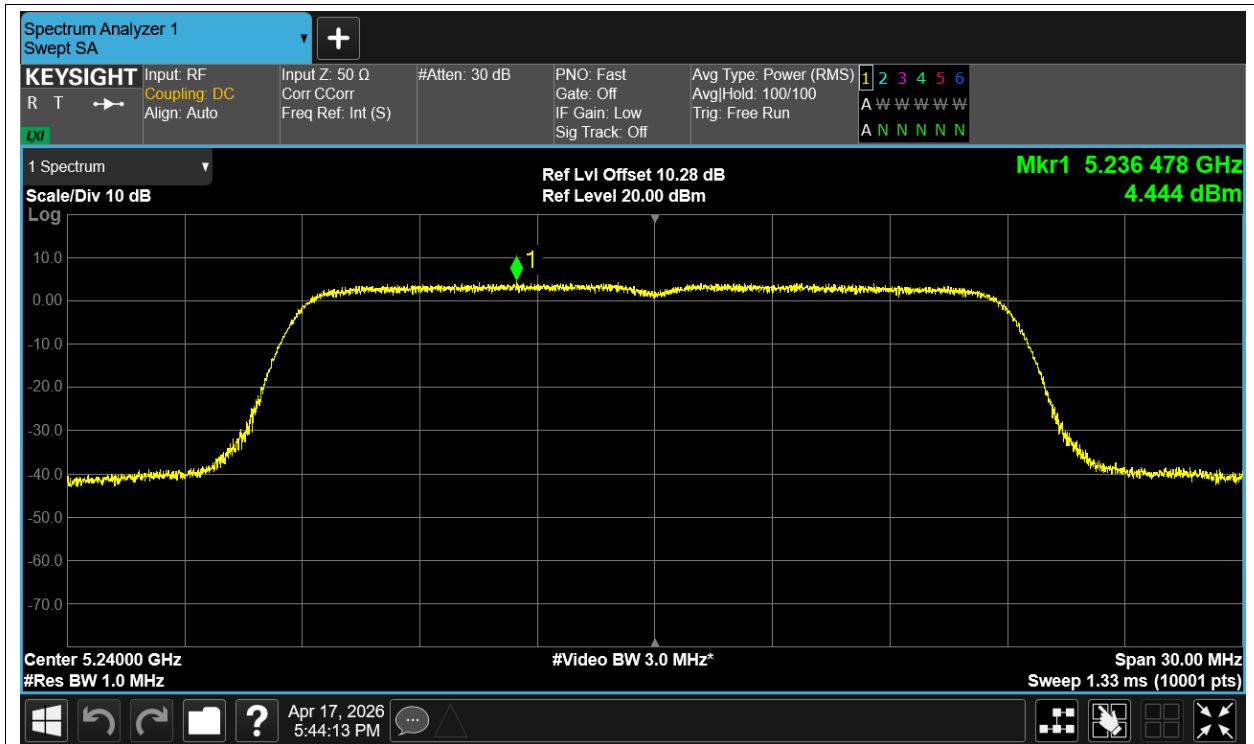
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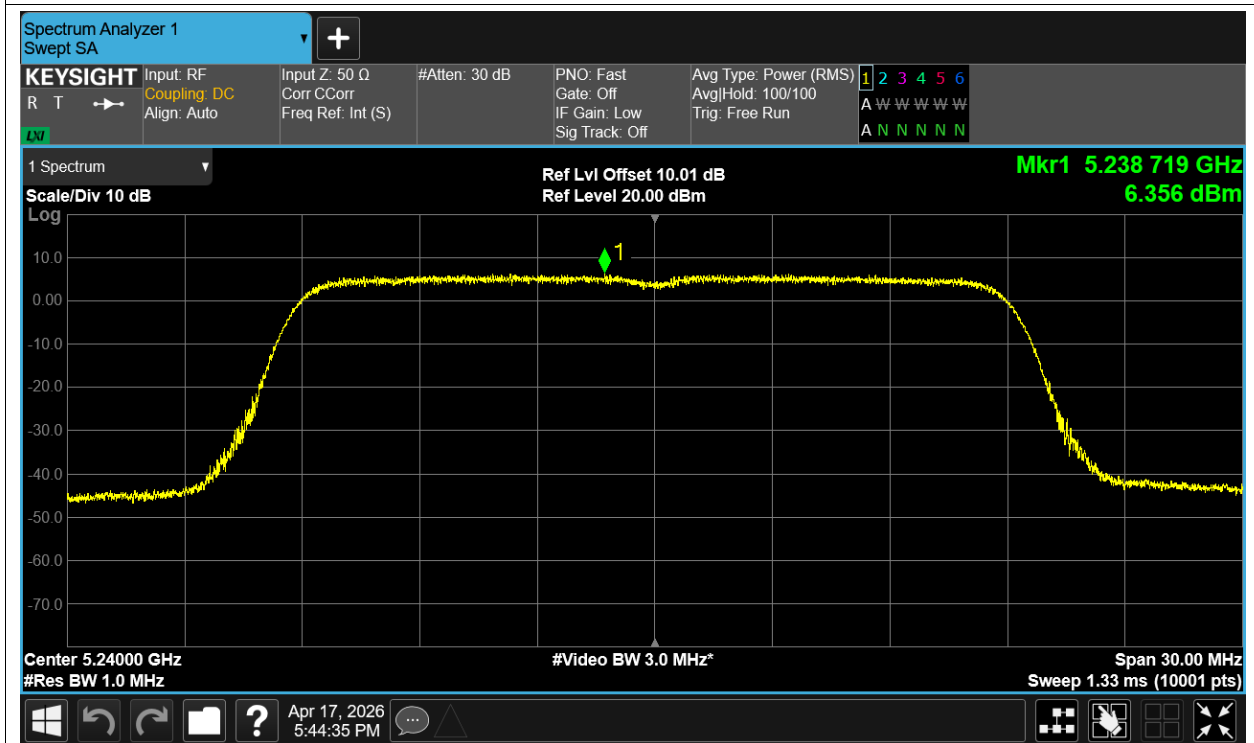
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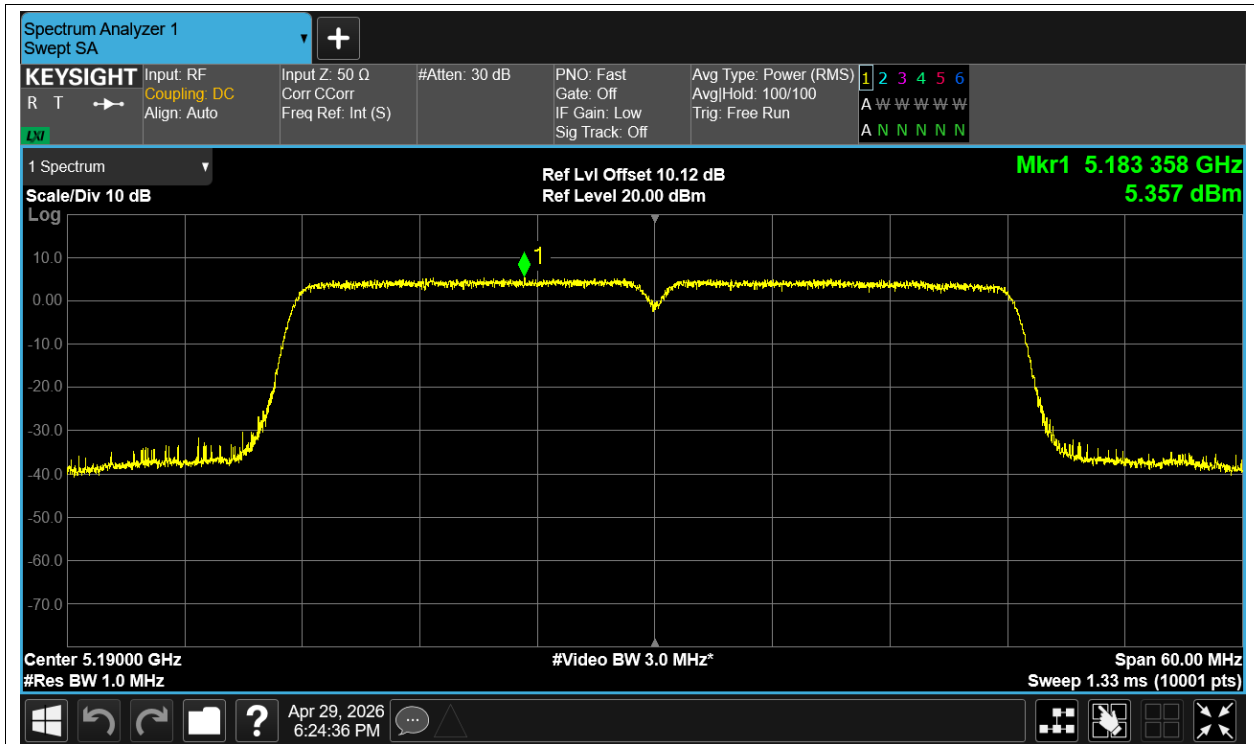
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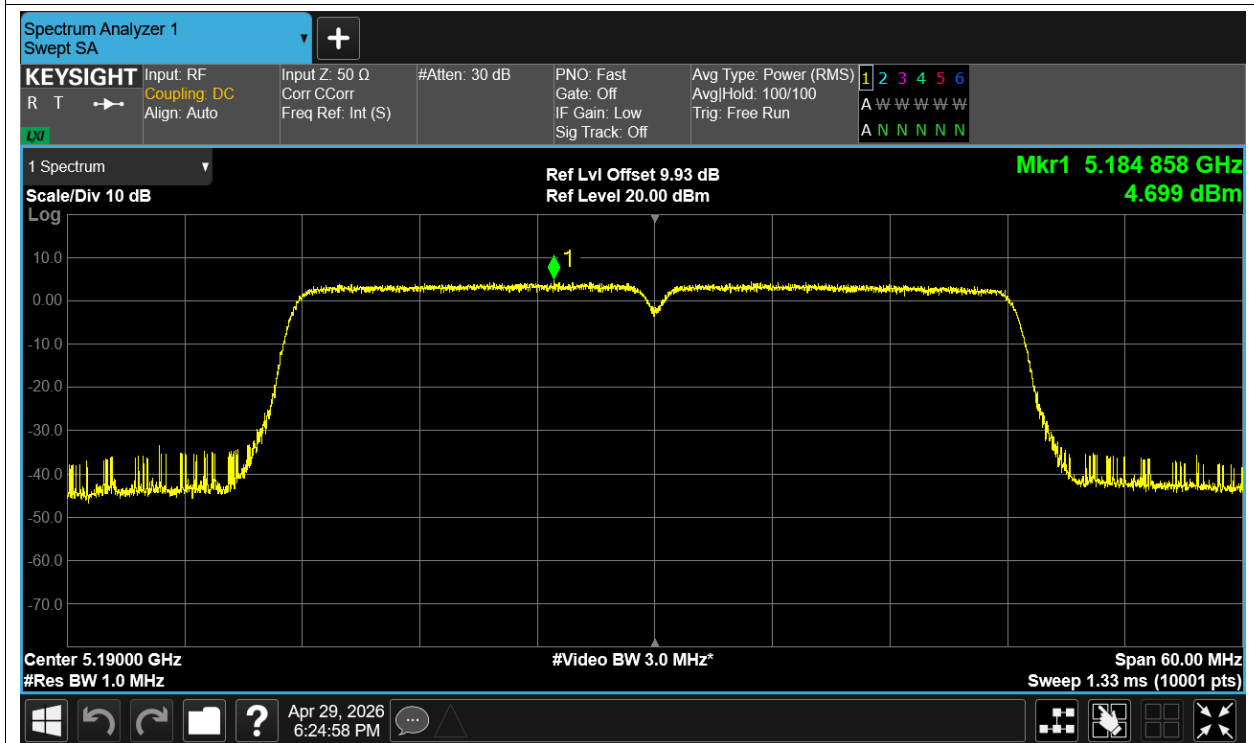
PSD NVNT n20 5240MHz Ant2



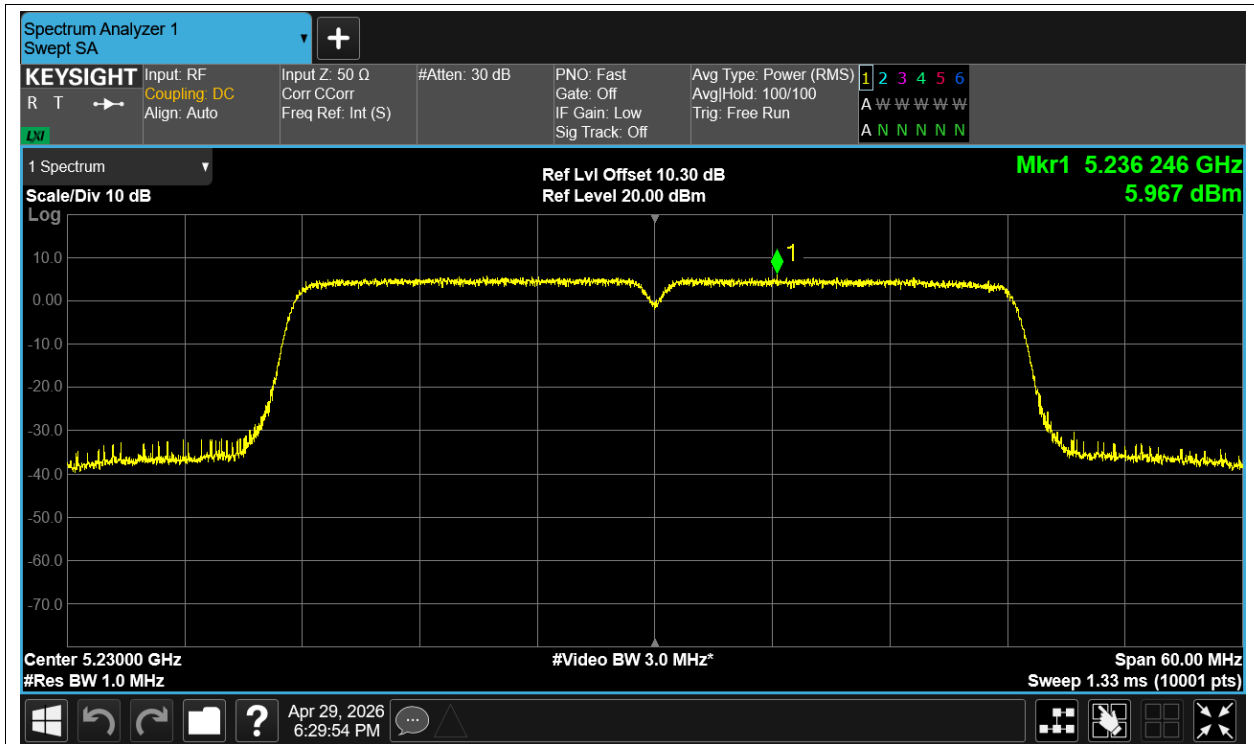
PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant1



PSD NVNT n40 5230MHz Ant2

