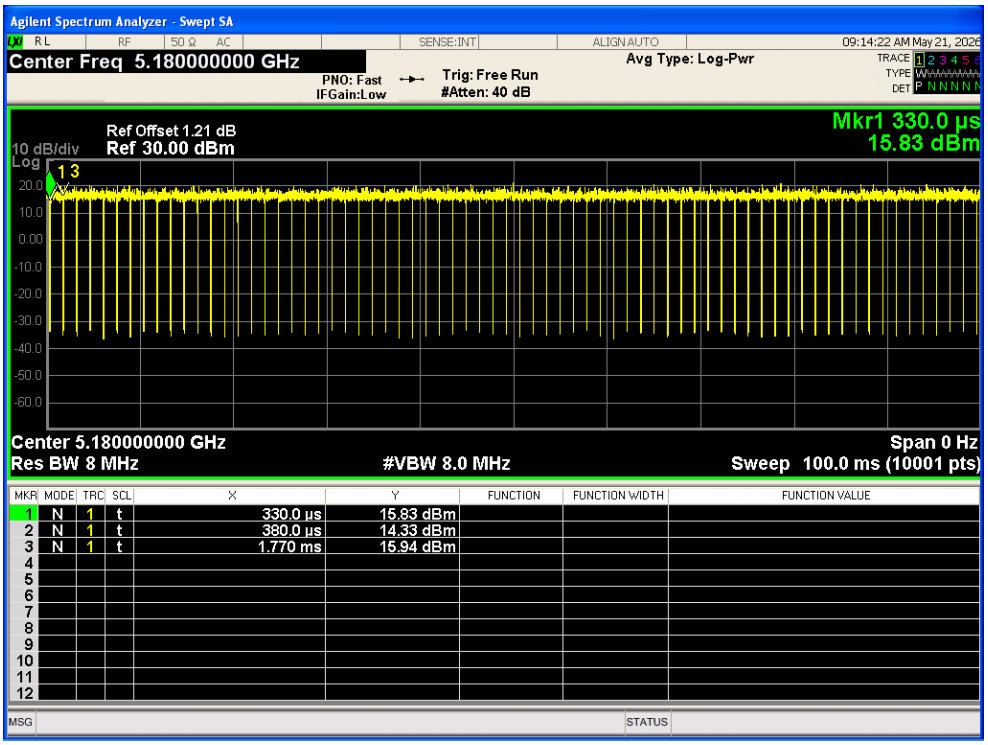
WIFI 5.2G

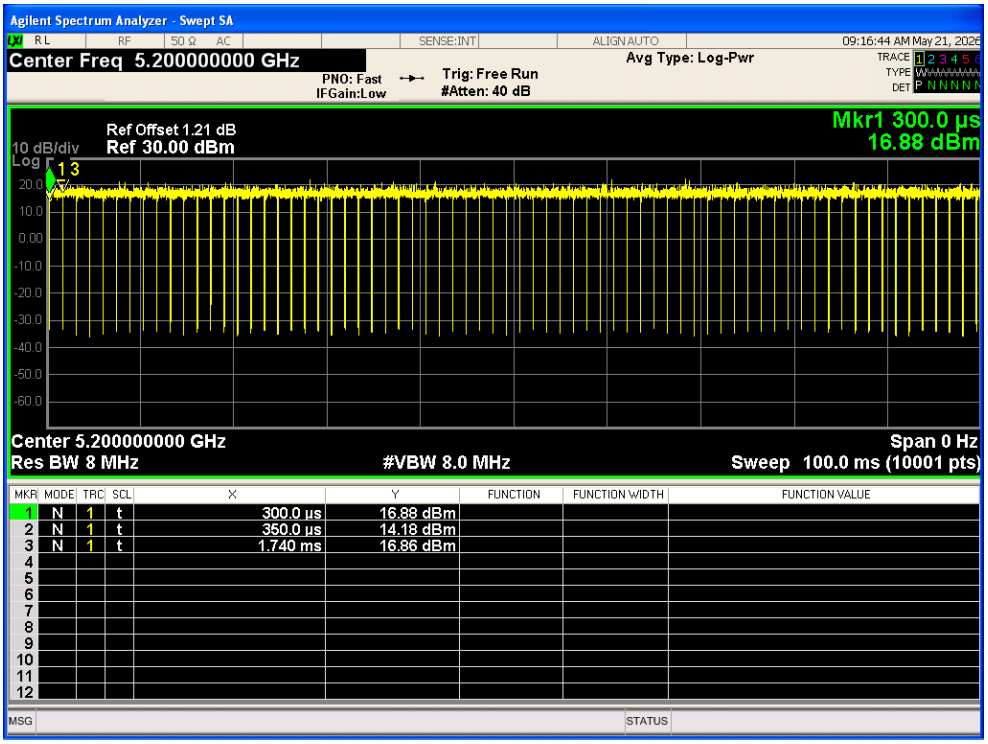
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.6	0.11	0.72
NVNT	a	5200	Ant1	97.59	0.11	0.72
NVNT	a	5240	Ant1	97.62	0.1	0.72
NVNT	ac20	5180	Ant1	97.47	0.11	0.76
NVNT	ac20	5200	Ant1	97.45	0.11	0.76
NVNT	ac20	5240	Ant1	97.46	0.11	0.76
NVNT	ac40	5190	Ant1	95.14	0.22	1.54
NVNT	ac40	5230	Ant1	95.11	0.22	1.54
NVNT	ac80	5210	Ant1	90.8	0.42	3.03
NVNT	n20	5180	Ant1	97.42	0.11	0.77
NVNT	n20	5200	Ant1	97.45	0.11	0.77
NVNT	n20	5240	Ant1	97.42	0.11	0.77
NVNT	n40	5190	Ant1	95.1	0.22	1.54
NVNT	n40	5230	Ant1	95.09	0.22	1.54

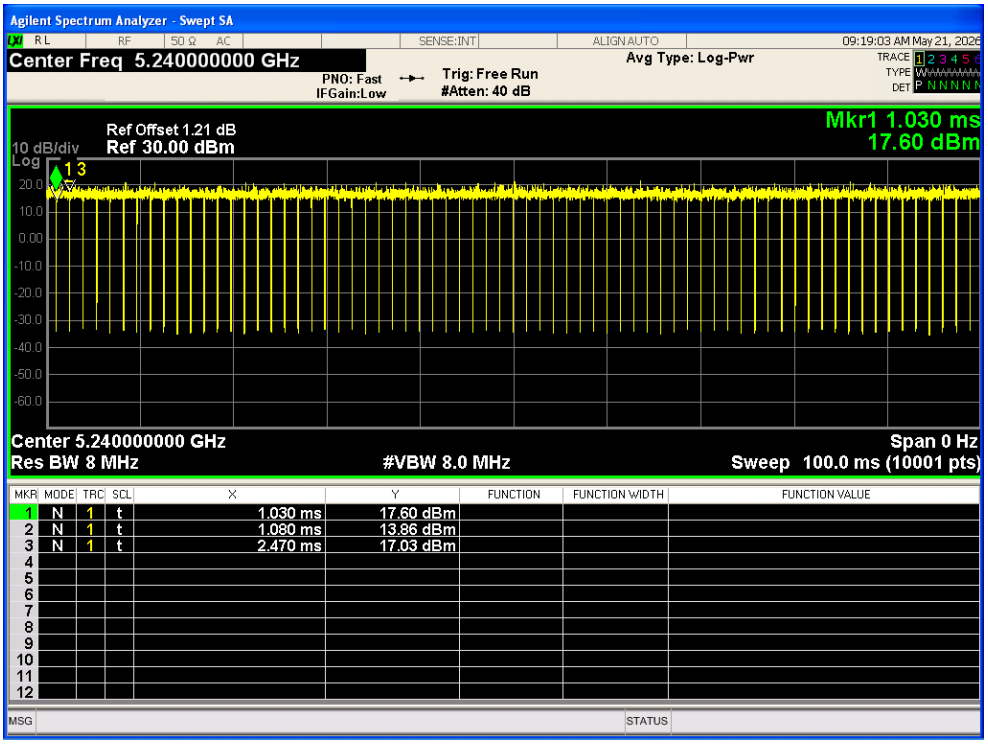
Duty Cycle NVNT a 5180MHz Ant1



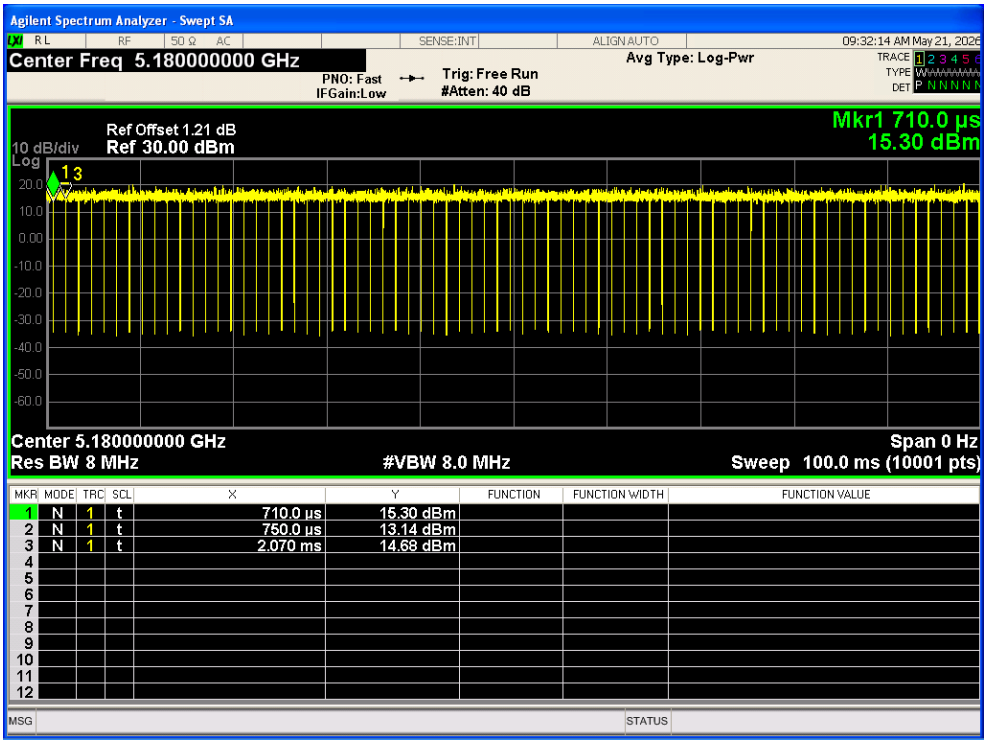
Duty Cycle NVNT a 5200MHz Ant1



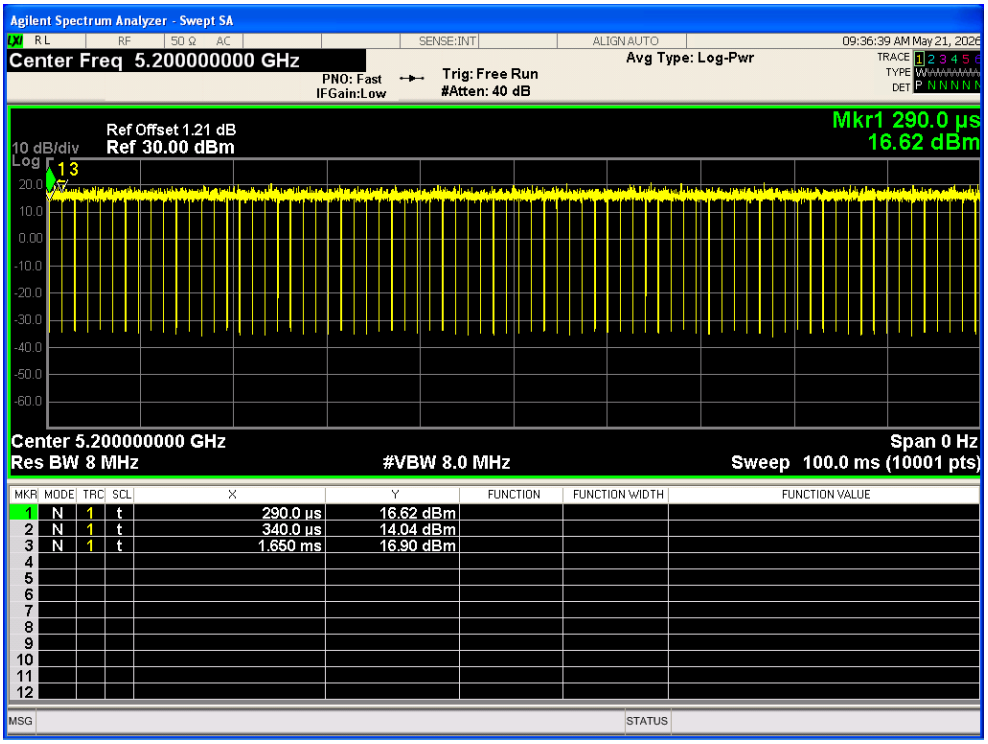
Duty Cycle NVNT a 5240MHz Ant1



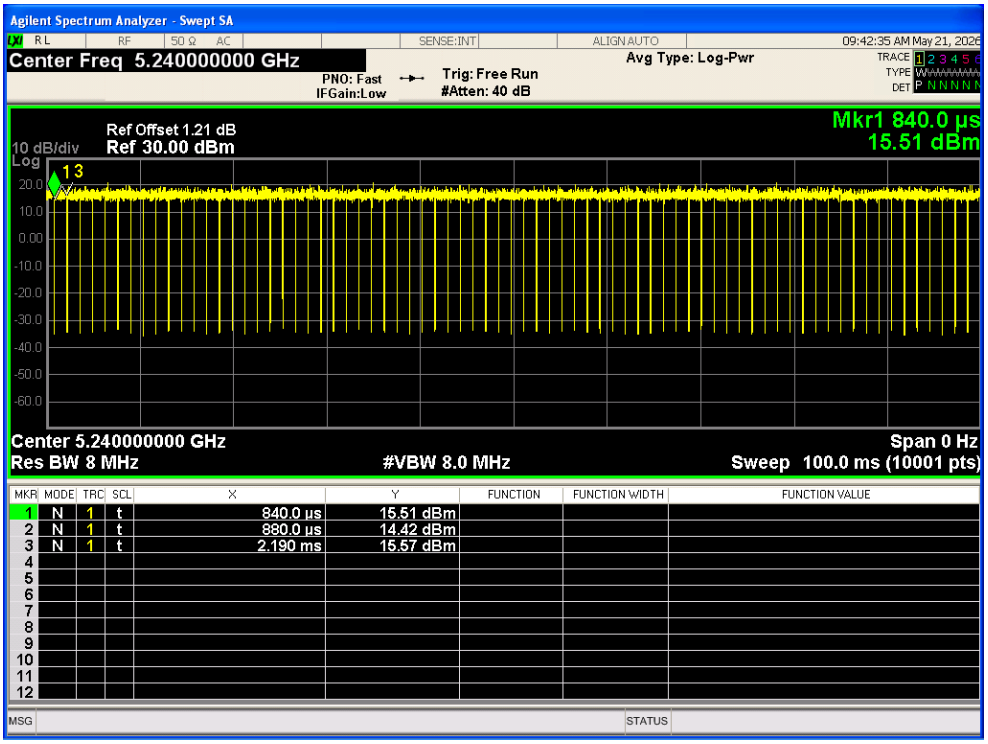
Duty Cycle NVNT ac20 5180MHz Ant1



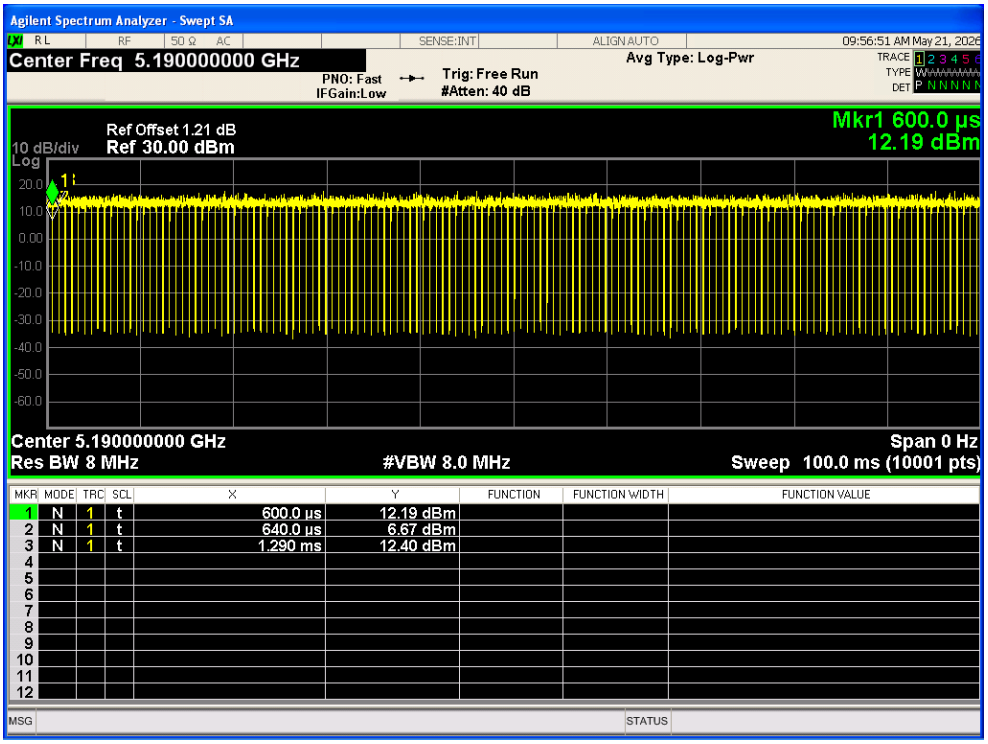
Duty Cycle NVNT ac20 5200MHz Ant1



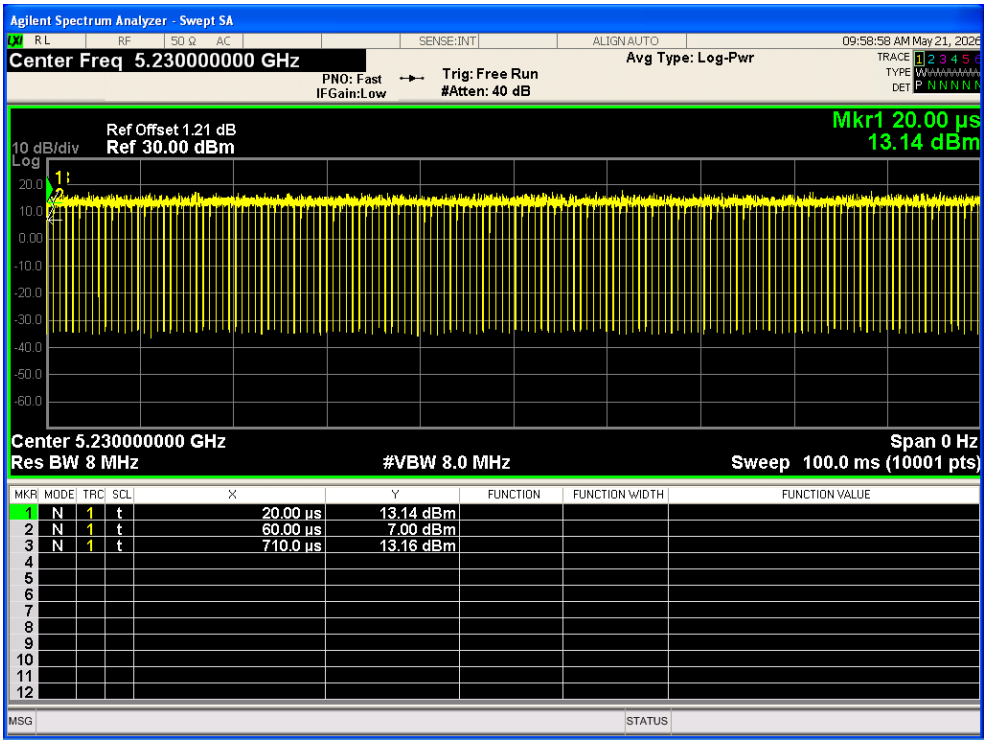
Duty Cycle NVNT ac20 5240MHz Ant1



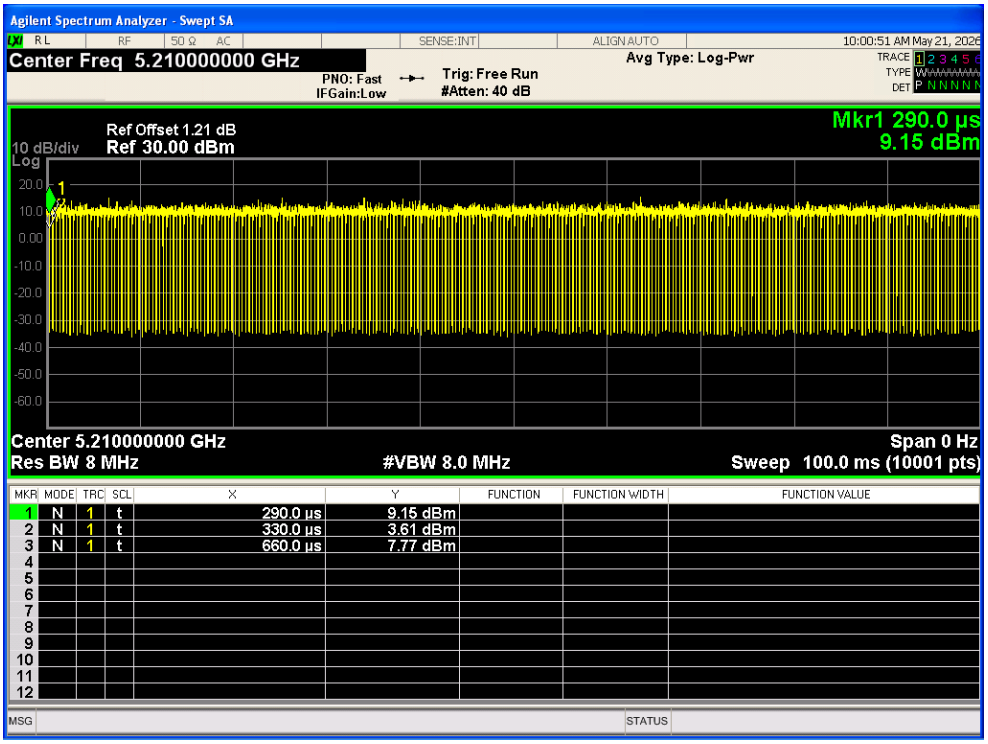
Duty Cycle NVNT ac40 5190MHz Ant1



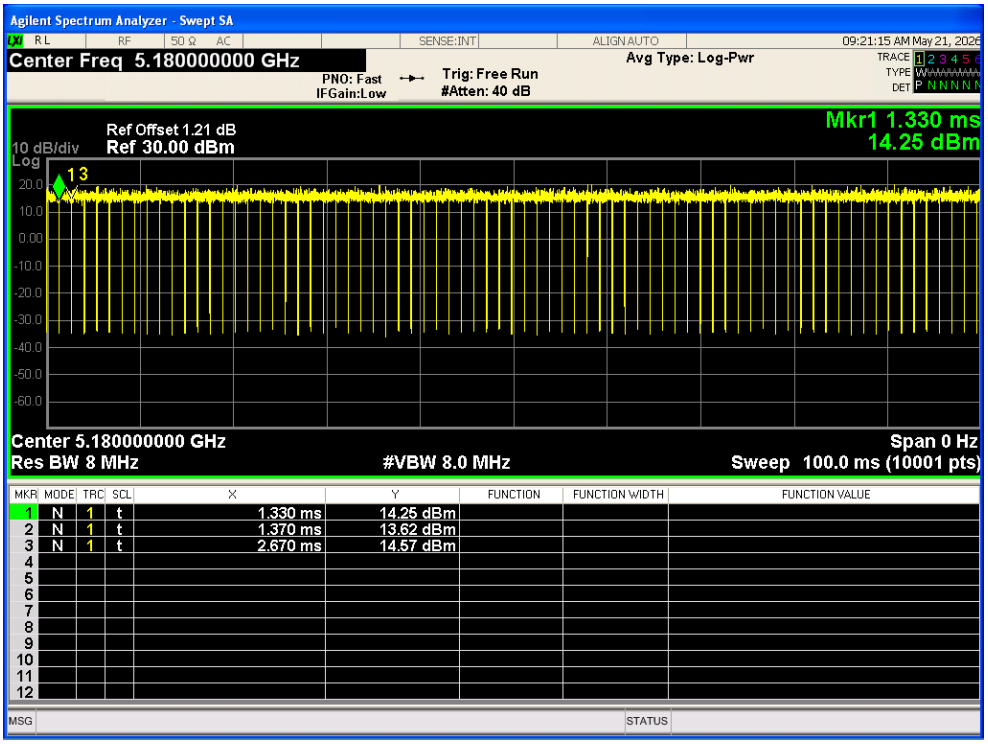
Duty Cycle NVNT ac40 5230MHz Ant1



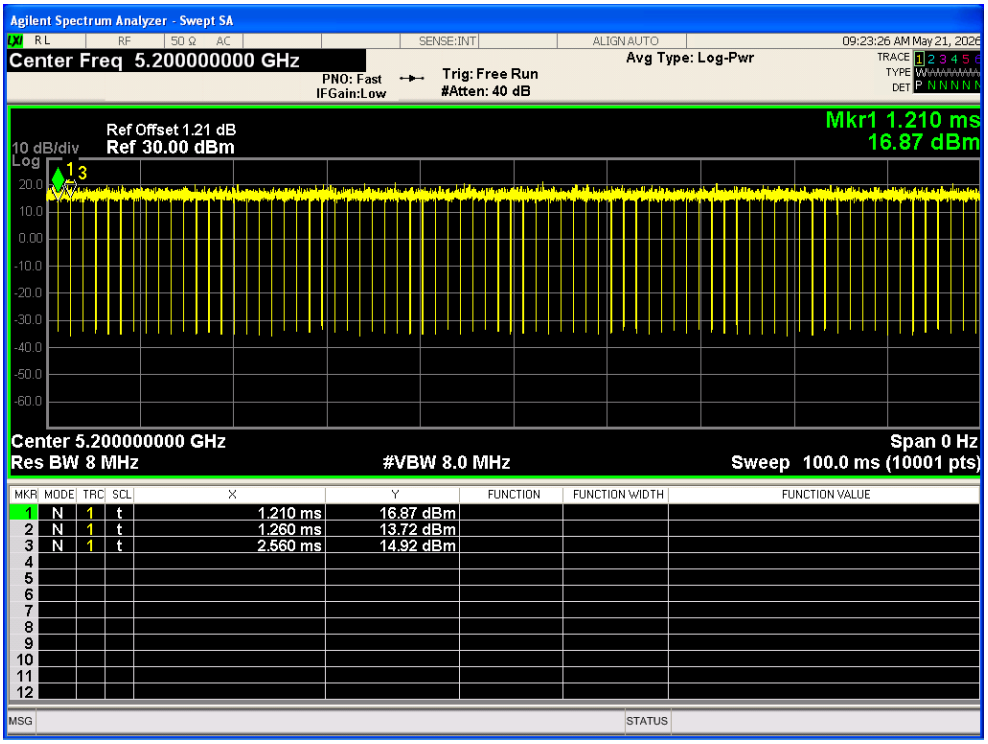
Duty Cycle NVNT ac80 5210MHz Ant1



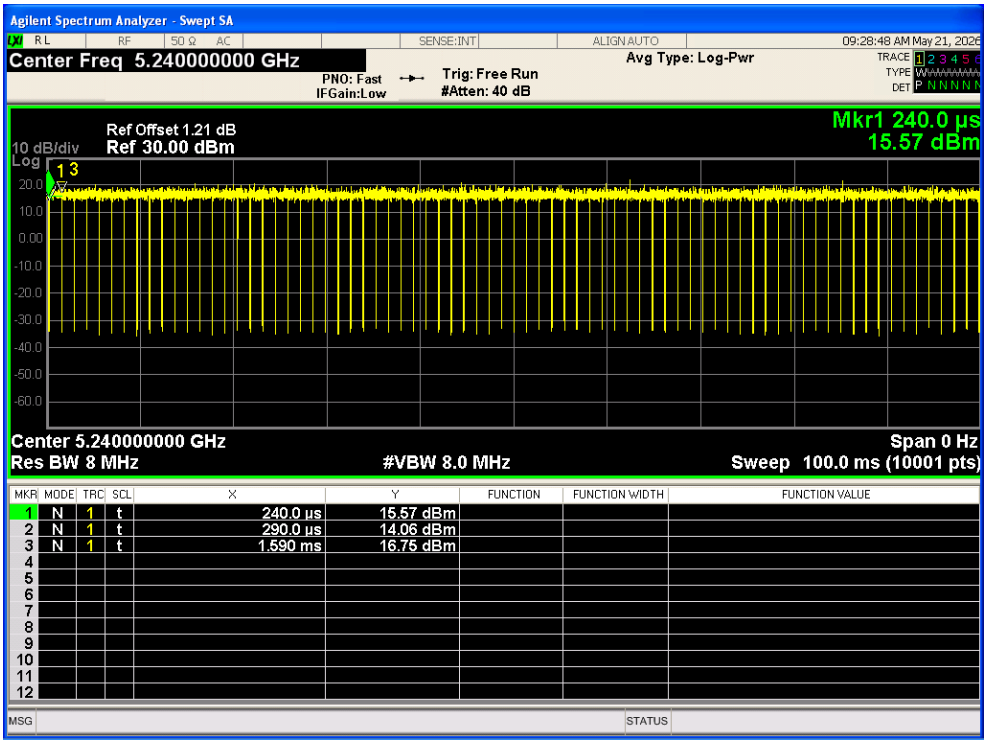
Duty Cycle NVNT n20 5180MHz Ant1



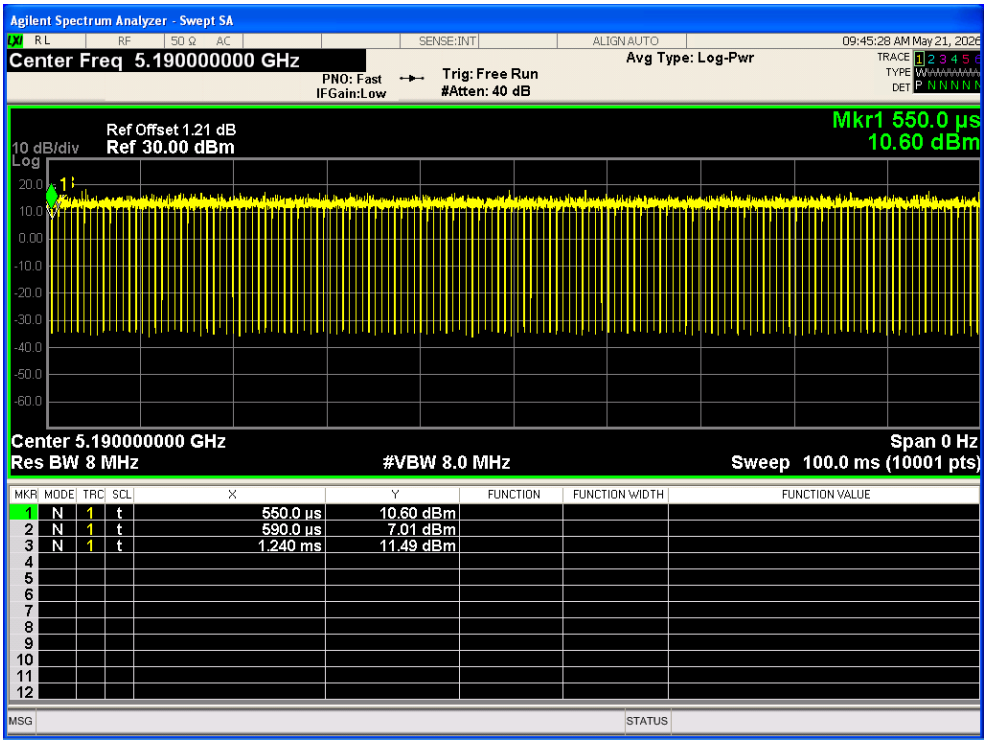
Duty Cycle NVNT n20 5200MHz Ant1



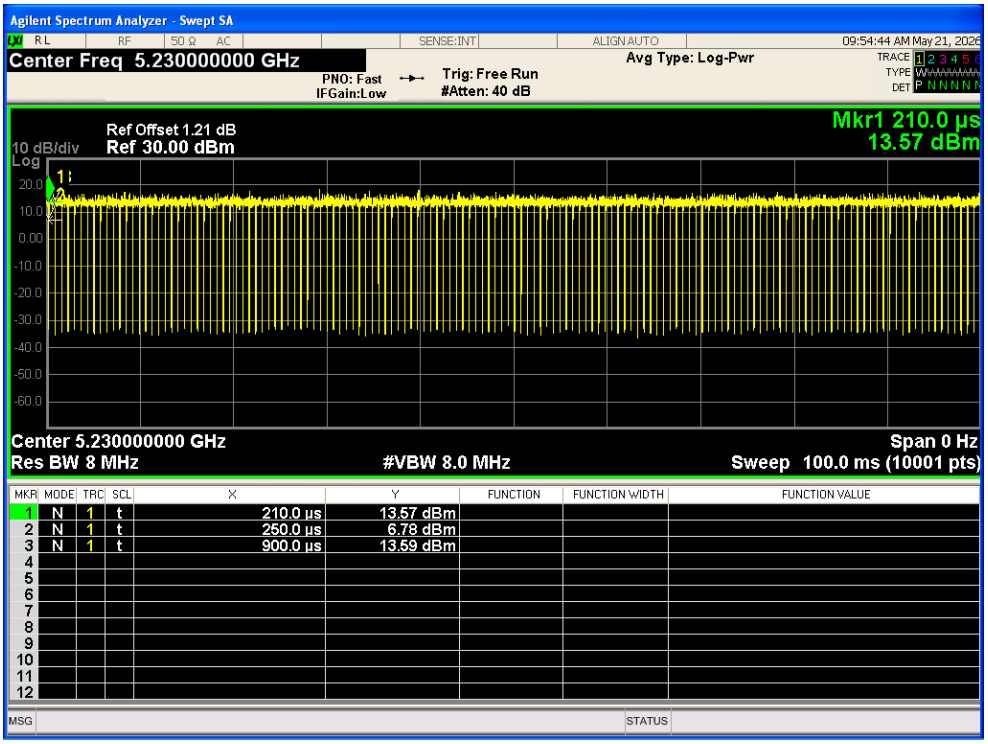
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.723	24	Pass
NVNT	a	5200	Ant1	11.725	24	Pass
NVNT	a	5240	Ant1	11.887	24	Pass
NVNT	ac20	5180	Ant1	11.092	24	Pass
NVNT	ac20	5200	Ant1	11.301	24	Pass
NVNT	ac20	5240	Ant1	11.614	24	Pass
NVNT	ac40	5190	Ant1	11.259	24	Pass
NVNT	ac40	5230	Ant1	11.923	24	Pass
NVNT	ac80	5210	Ant1	11.525	24	Pass
NVNT	n20	5180	Ant1	11.269	24	Pass
NVNT	n20	5200	Ant1	11.289	24	Pass
NVNT	n20	5240	Ant1	11.906	24	Pass
NVNT	n40	5190	Ant1	11.329	24	Pass
NVNT	n40	5230	Ant1	11.803	24	Pass

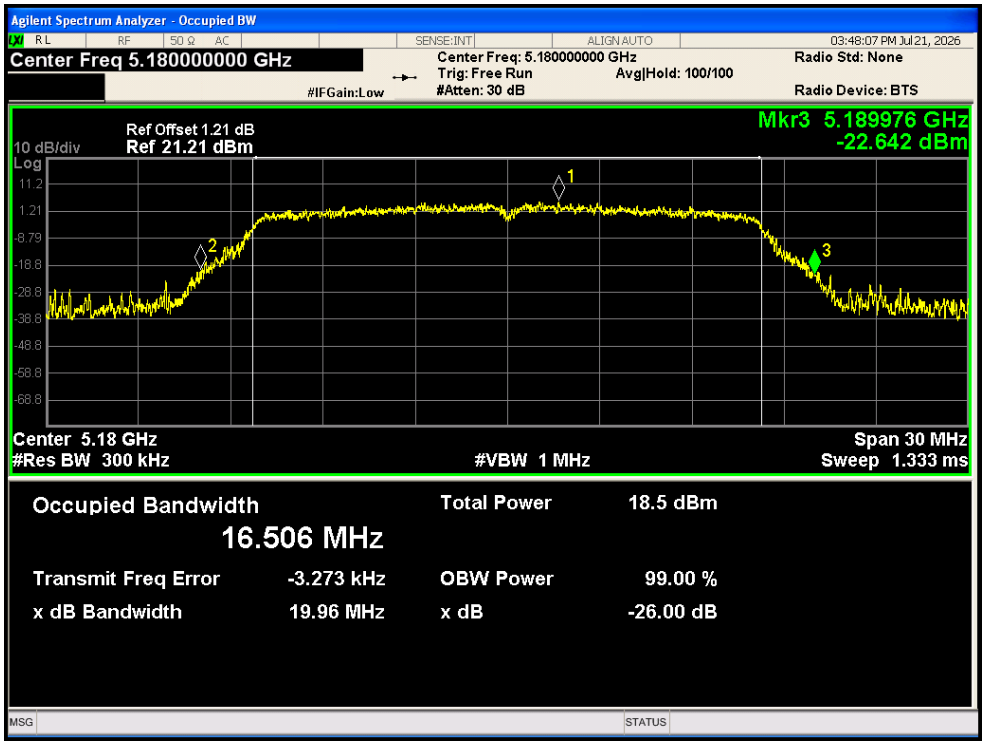
Note: The average power value already includes the duty cycle factor

-26dB Bandwidth

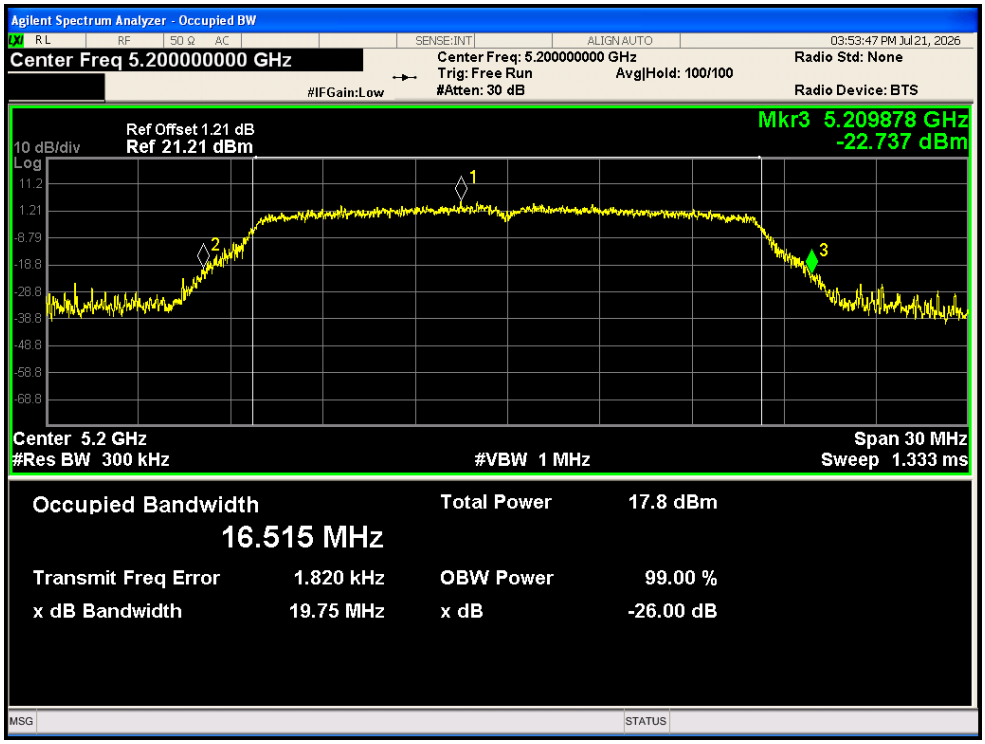
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.959	Pass
NVNT	a	5200	Ant1	19.752	Pass
NVNT	a	5240	Ant1	19.928	Pass
NVNT	ac20	5180	Ant1	20.434	Pass
NVNT	ac20	5200	Ant1	20.395	Pass
NVNT	ac20	5240	Ant1	20.179	Pass
NVNT	ac40	5190	Ant1	40.518	Pass

NVNT	ac40	5230	Ant1	40.443	Pass
NVNT	ac80	5210	Ant1	80.9	Pass
NVNT	n20	5180	Ant1	20.256	Pass
NVNT	n20	5200	Ant1	20.283	Pass
NVNT	n20	5240	Ant1	20.208	Pass
NVNT	n40	5190	Ant1	40.526	Pass
NVNT	n40	5230	Ant1	40.501	Pass

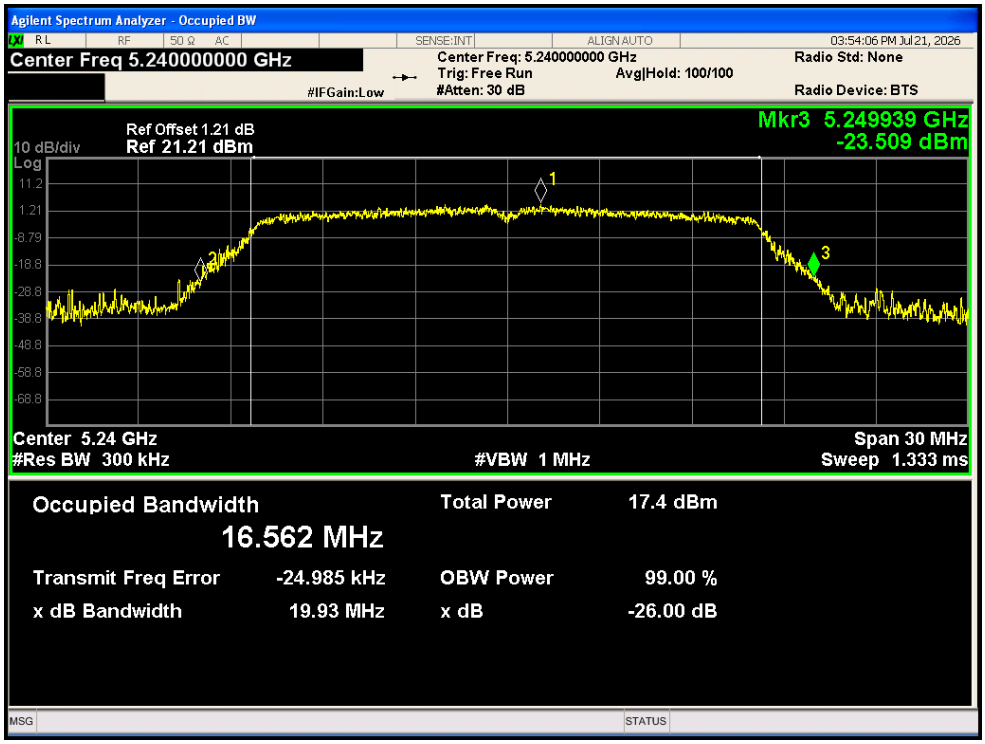
-26dB Bandwidth NVNT a 5180MHz Ant1



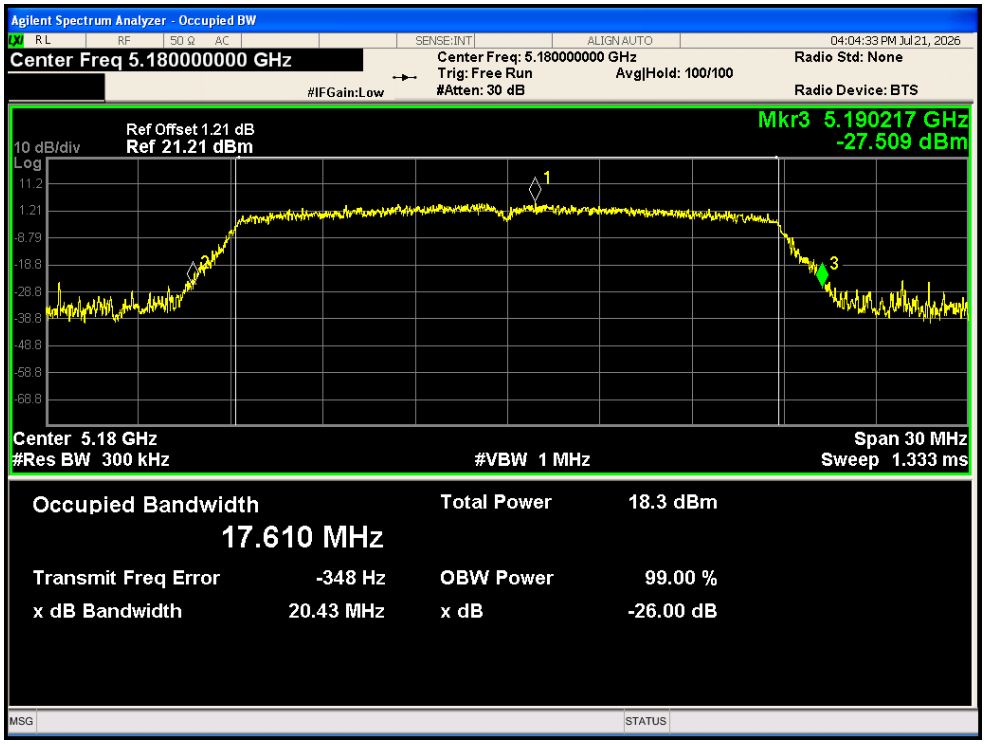
-26dB Bandwidth NVNT a 5200MHz Ant1



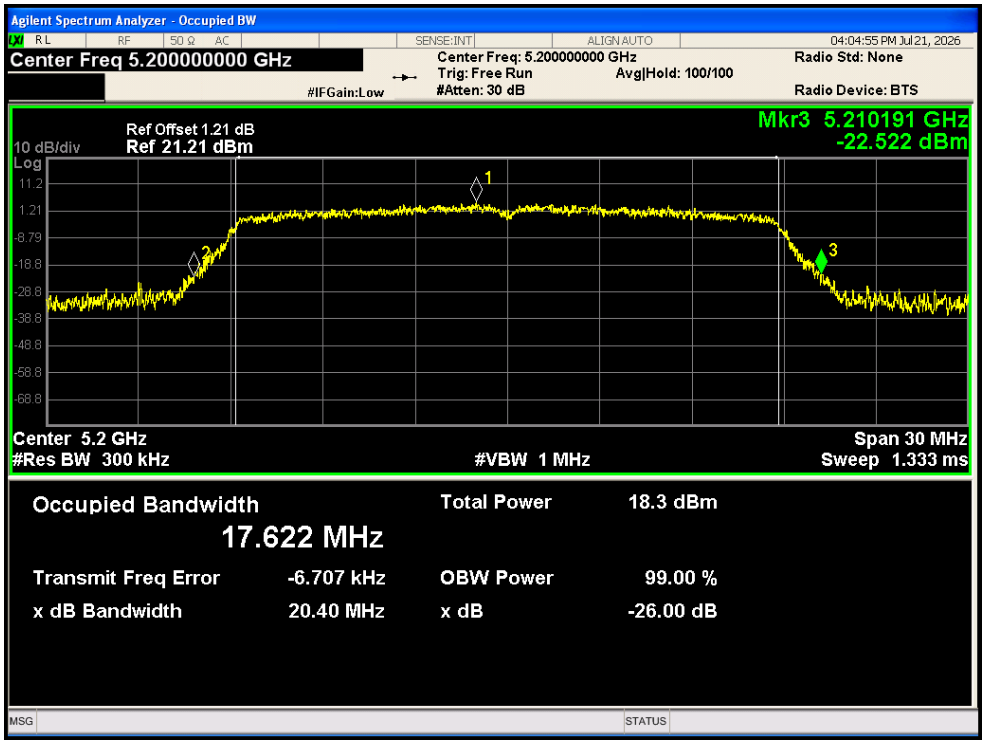
-26dB Bandwidth NVNT a 5240MHz Ant1



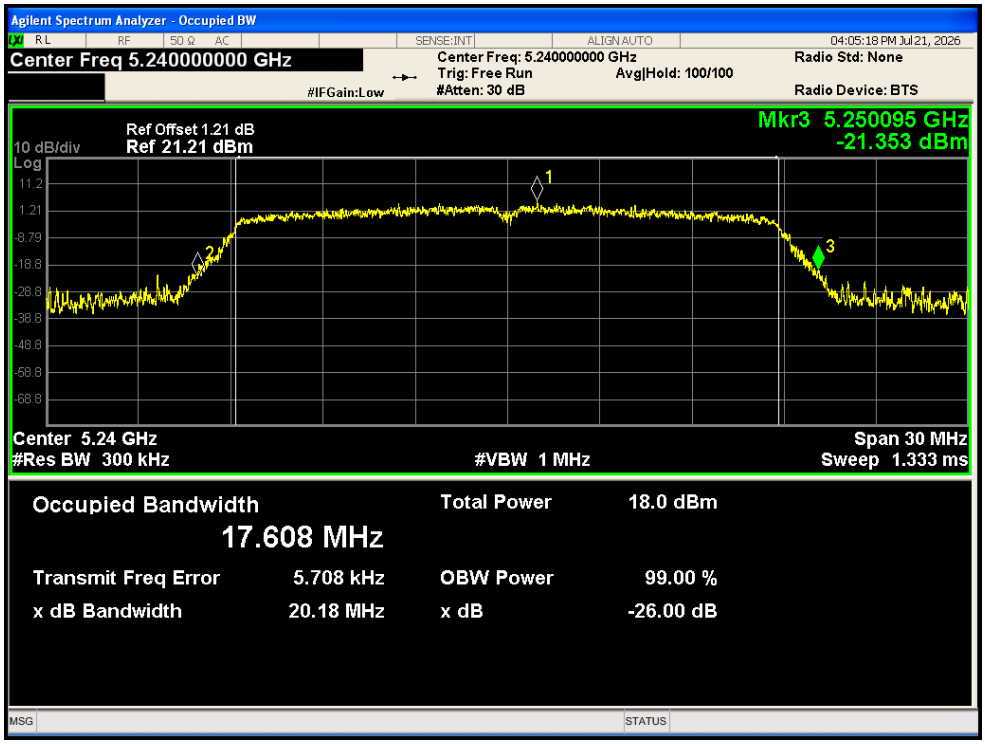
-26dB Bandwidth NVNT ac20 5180MHz Ant1



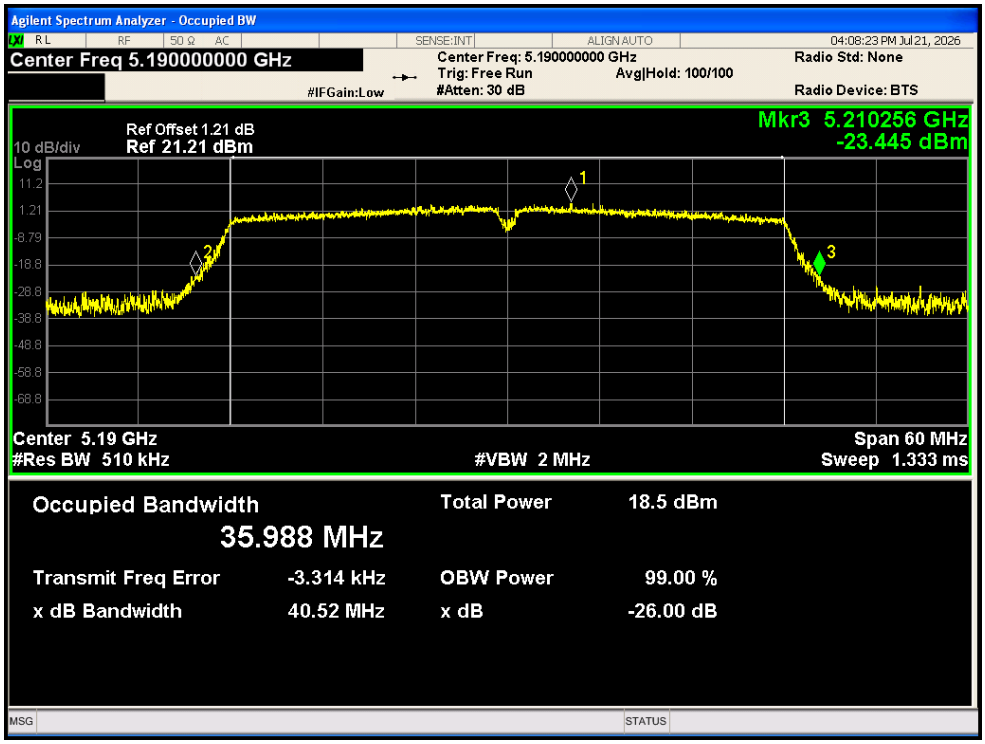
-26dB Bandwidth NVNT ac20 5200MHz Ant1



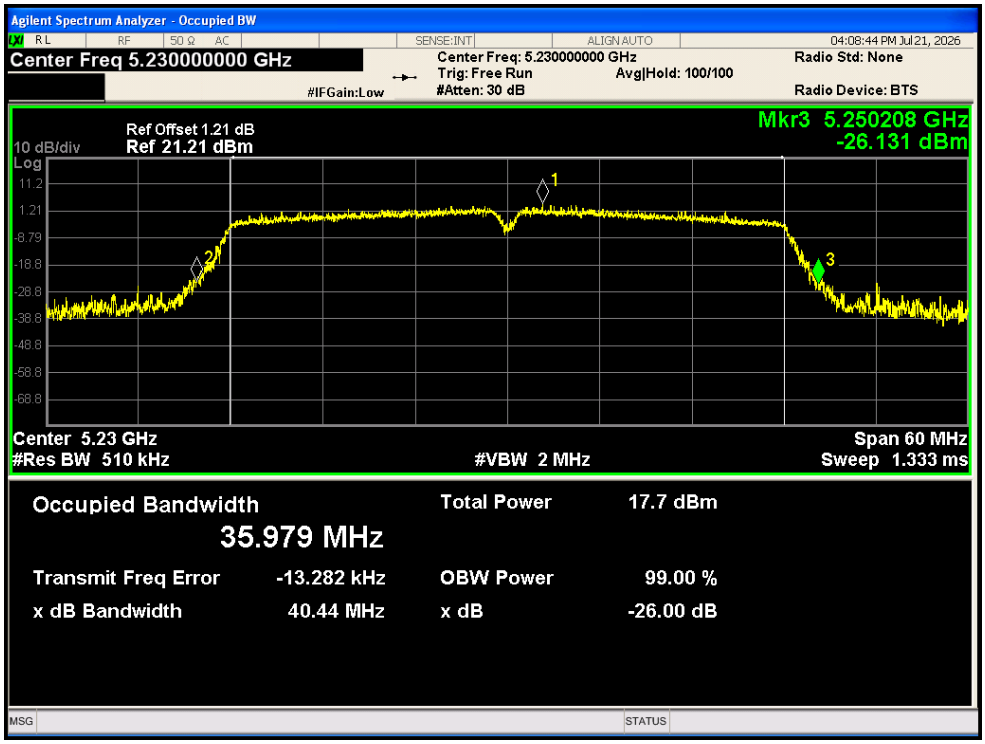
-26dB Bandwidth NVNT ac20 5240MHz Ant1



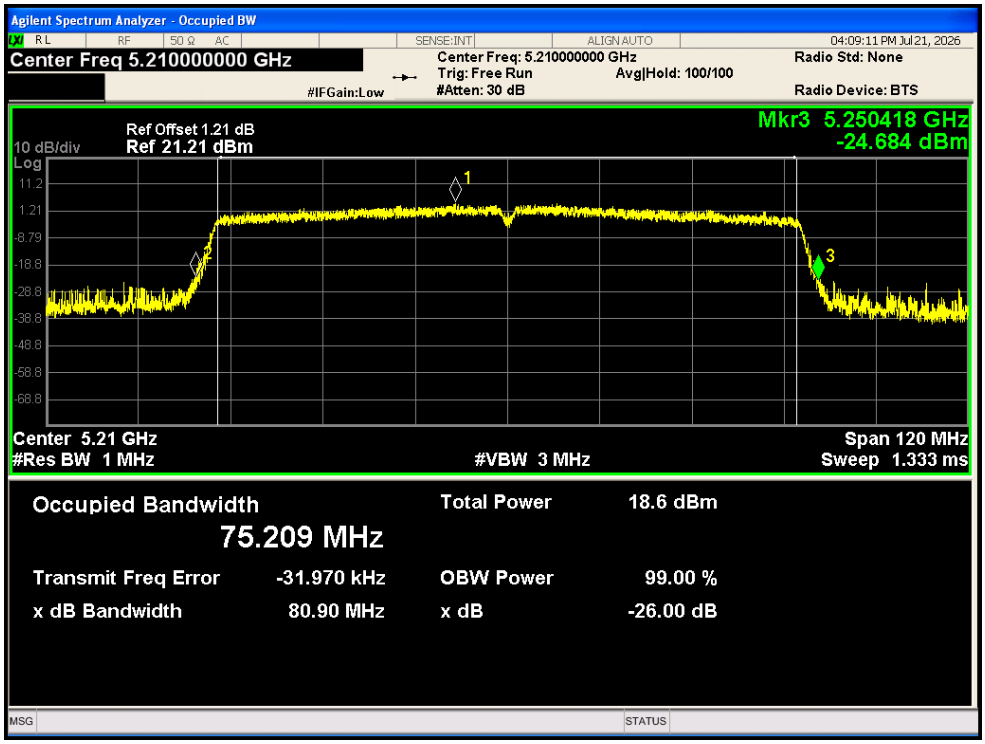
-26dB Bandwidth NVNT ac40 5190MHz Ant1



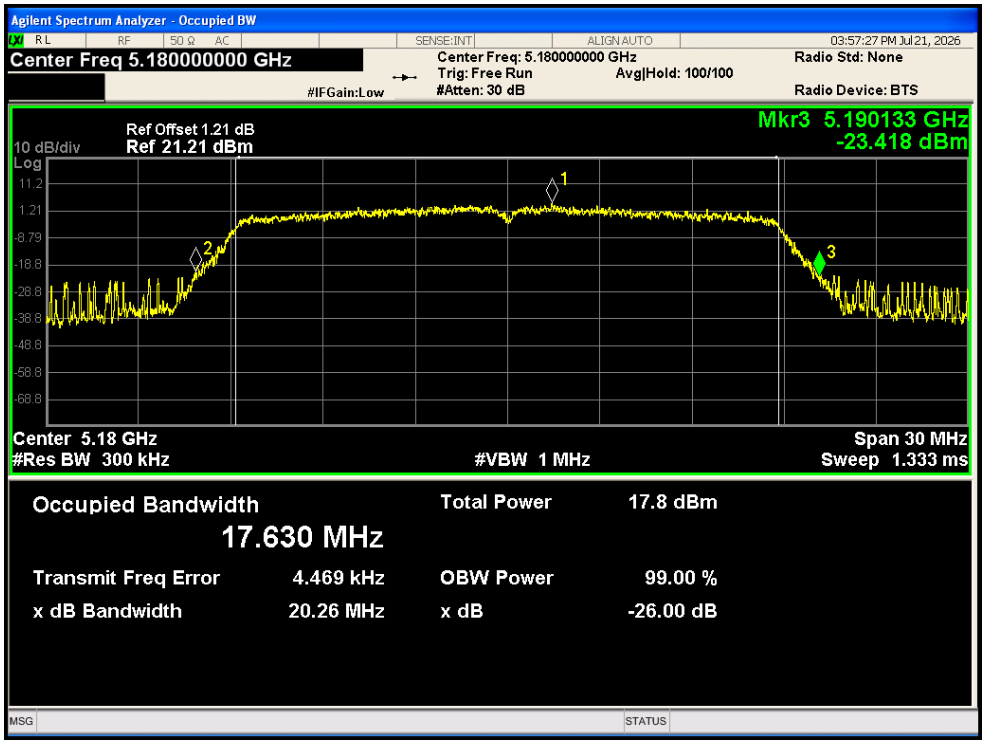
-26dB Bandwidth NVNT ac40 5230MHz Ant1



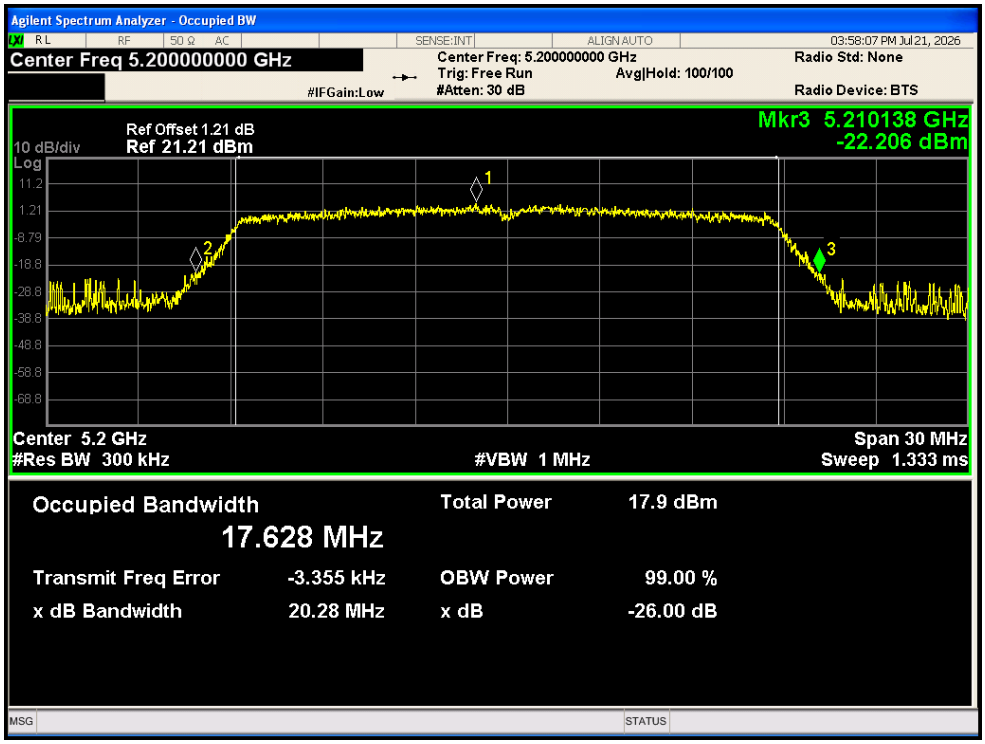
-26dB Bandwidth NVNT ac80 5210MHz Ant1



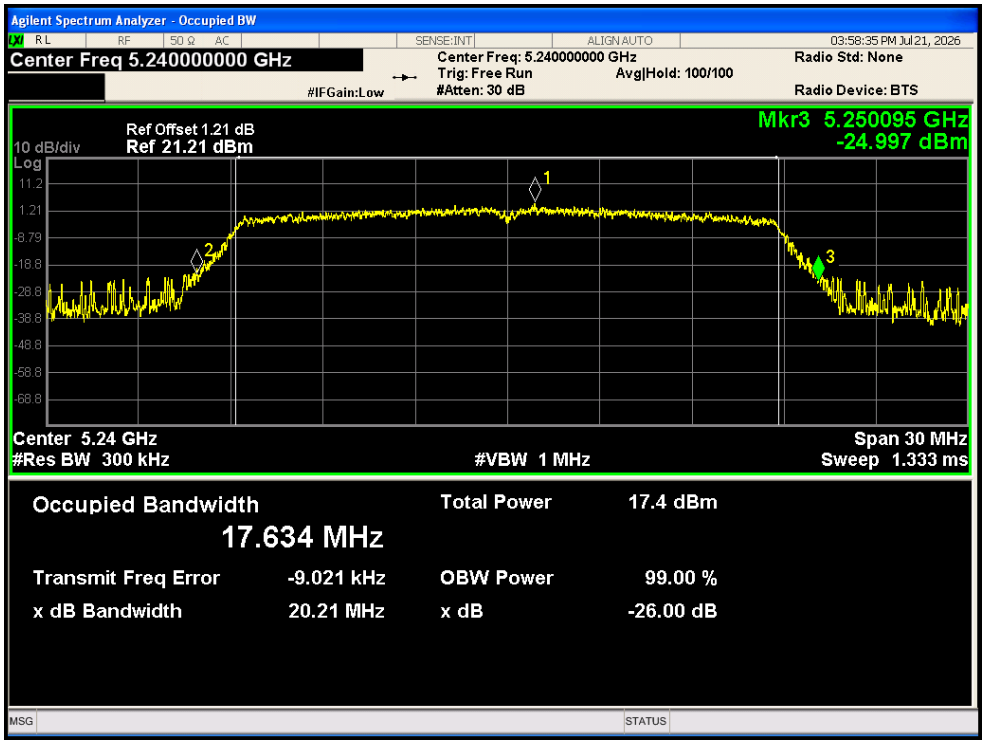
-26dB Bandwidth NVNT n20 5180MHz Ant1



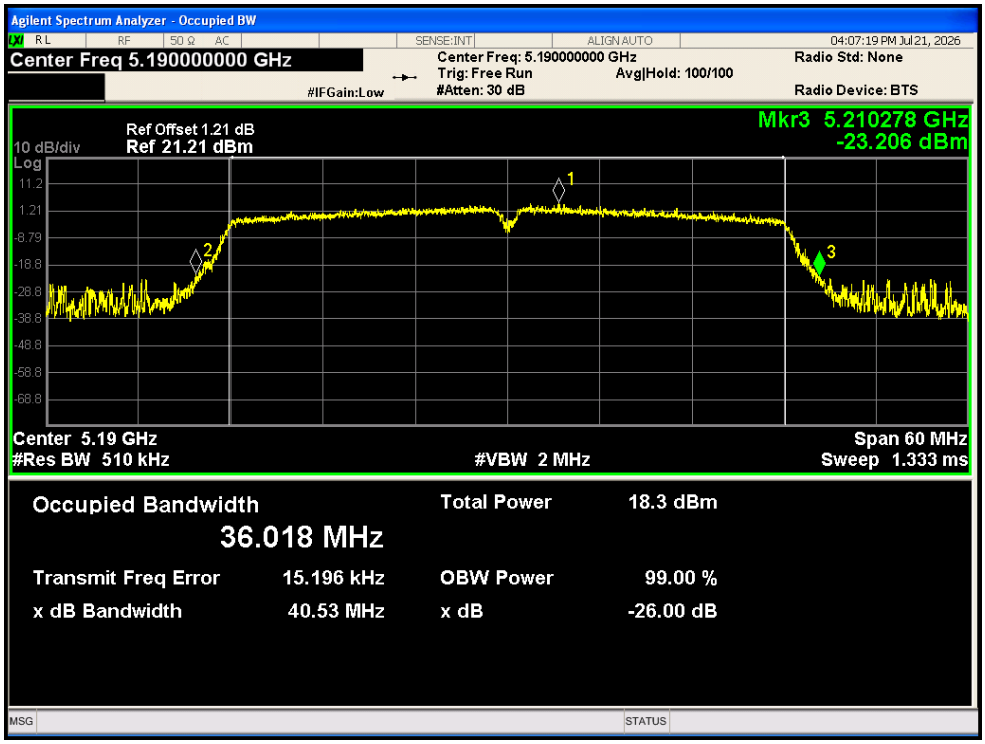
-26dB Bandwidth NVNT n20 5200MHz Ant1



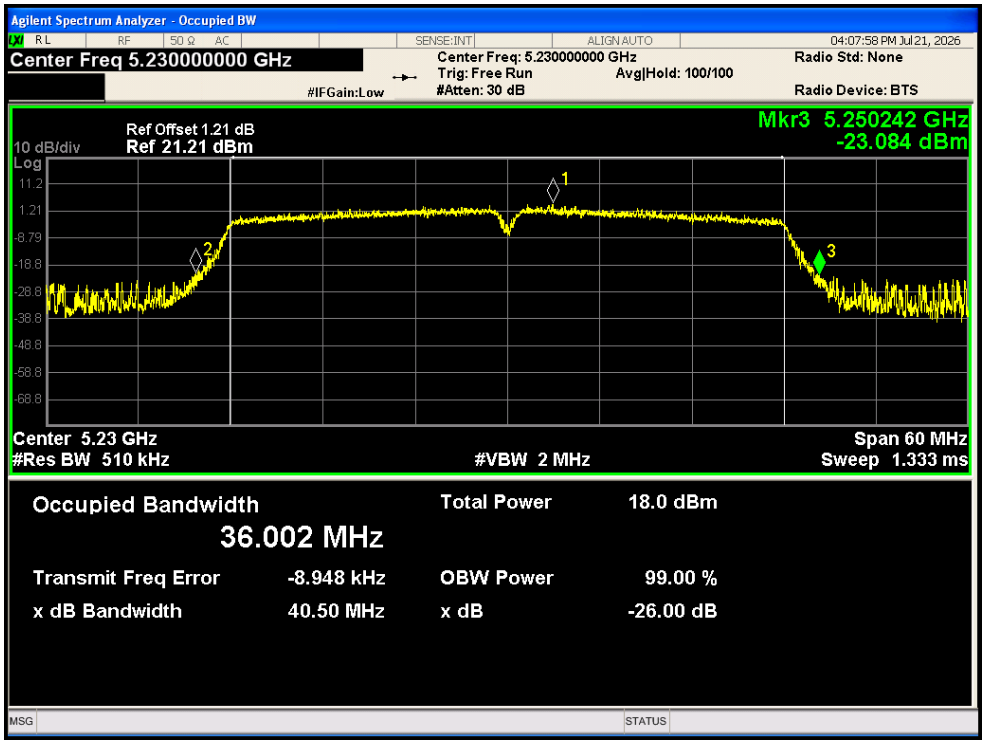
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



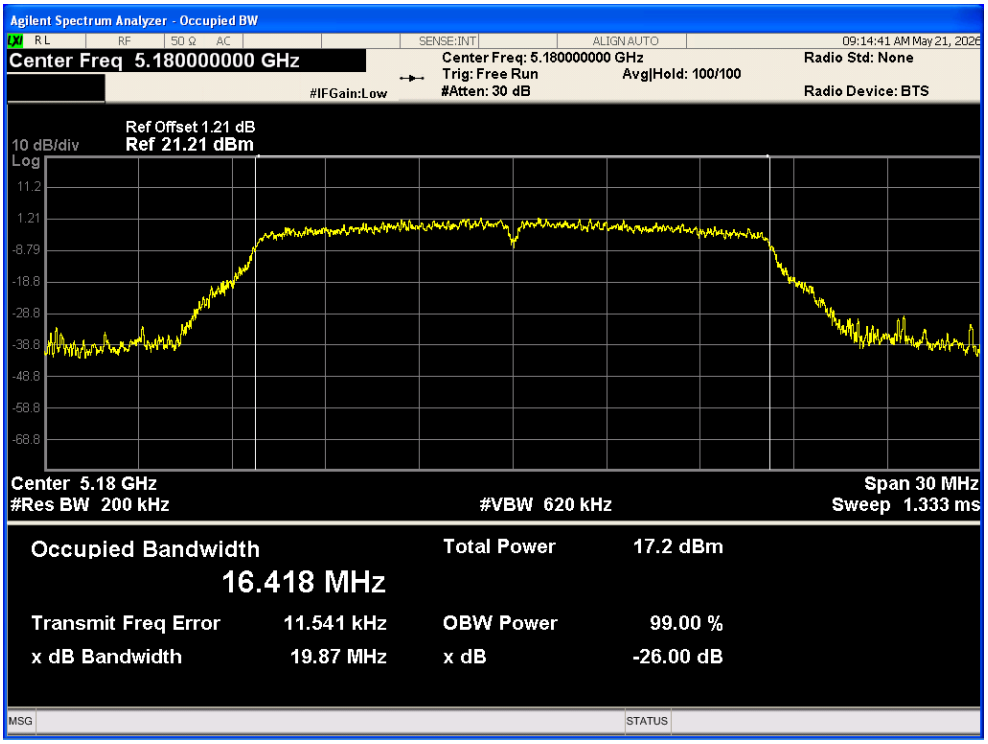
-26dB Bandwidth NVNT n40 5230MHz Ant1



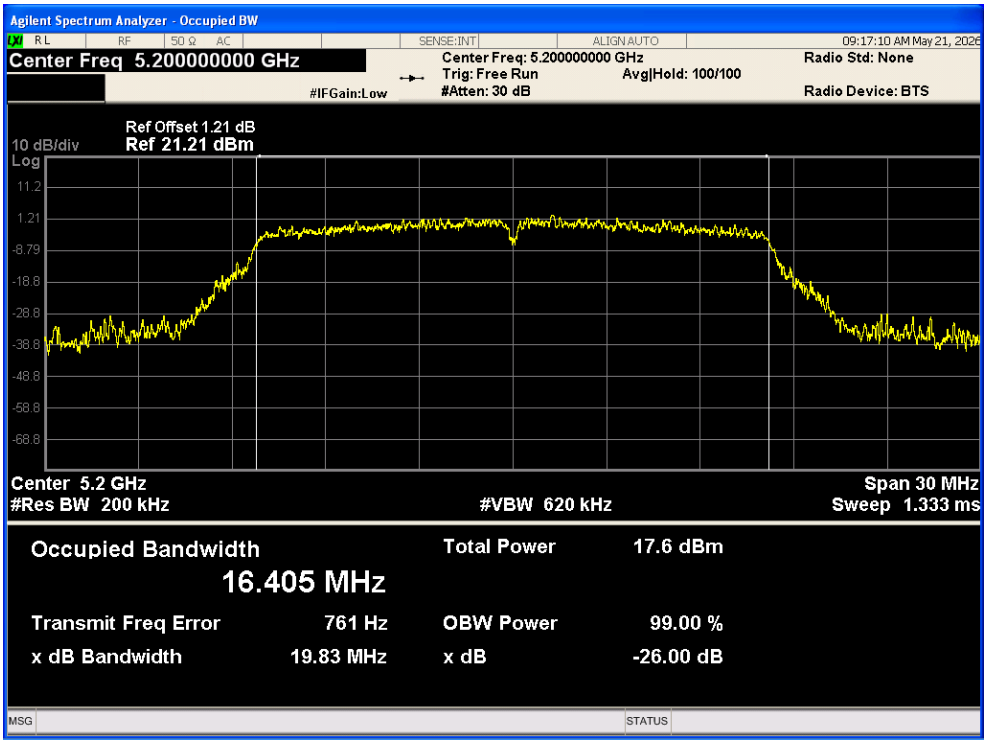
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.418
NVNT	a	5200	Ant1	16.405
NVNT	a	5240	Ant1	16.374
NVNT	ac20	5180	Ant1	17.551
NVNT	ac20	5200	Ant1	17.543
NVNT	ac20	5240	Ant1	17.528
NVNT	ac40	5190	Ant1	35.974
NVNT	ac40	5230	Ant1	36.004
NVNT	ac80	5210	Ant1	75.185
NVNT	n20	5180	Ant1	17.556
NVNT	n20	5200	Ant1	17.57
NVNT	n20	5240	Ant1	17.539
NVNT	n40	5190	Ant1	35.99
NVNT	n40	5230	Ant1	36.079

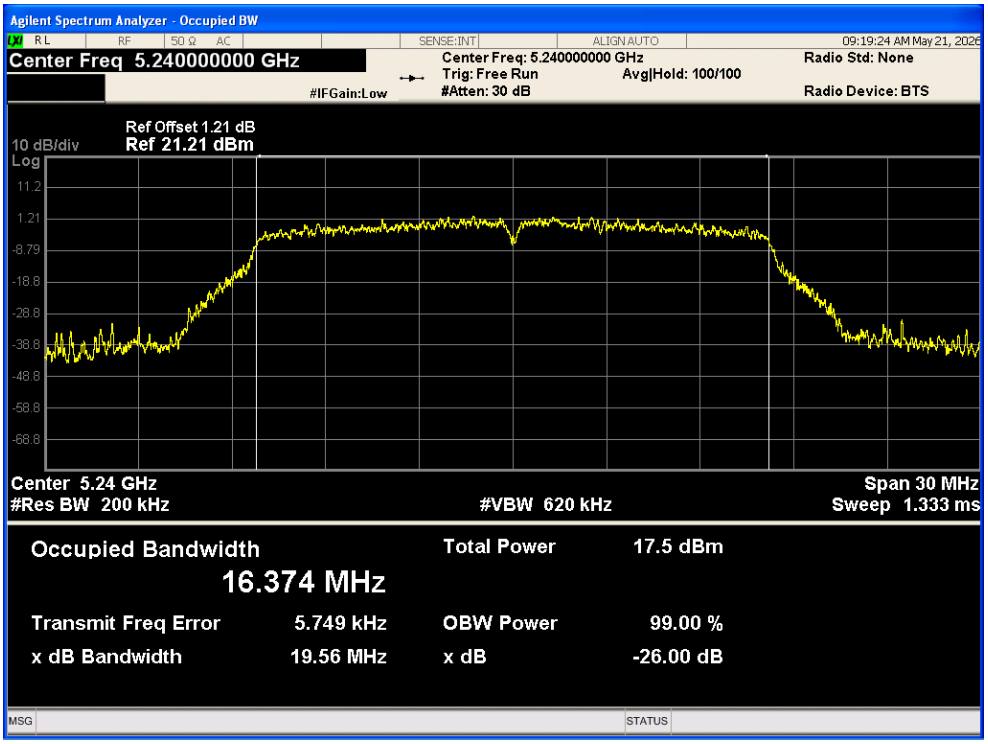
OBW NVNT a 5180MHz Ant1



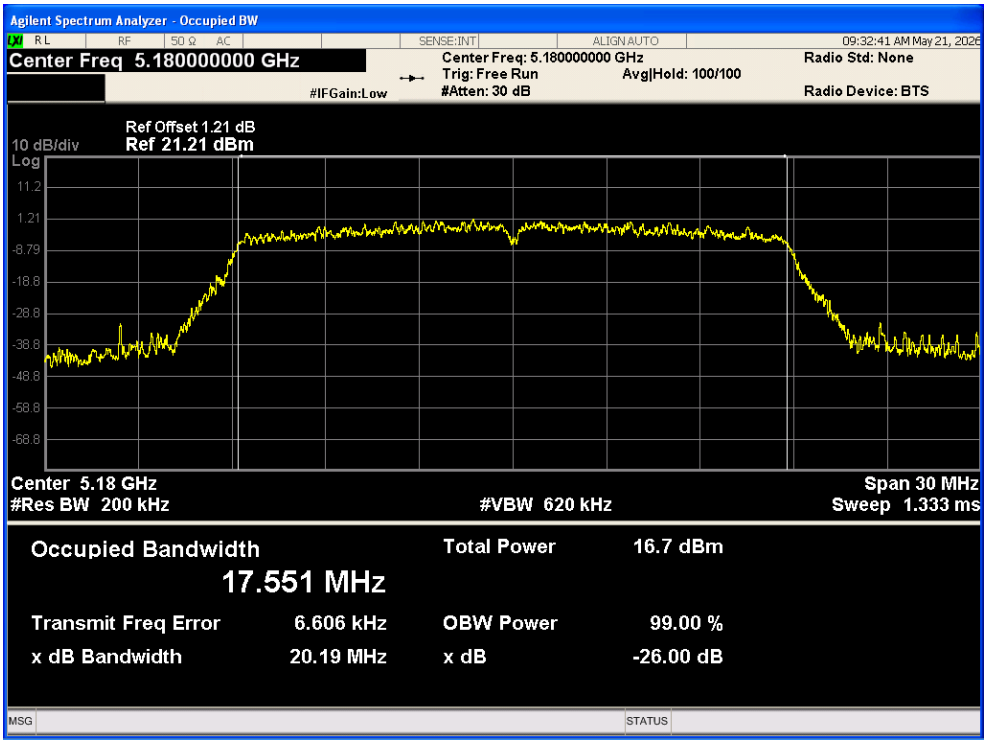
OBW NVNT a 5200MHz Ant1



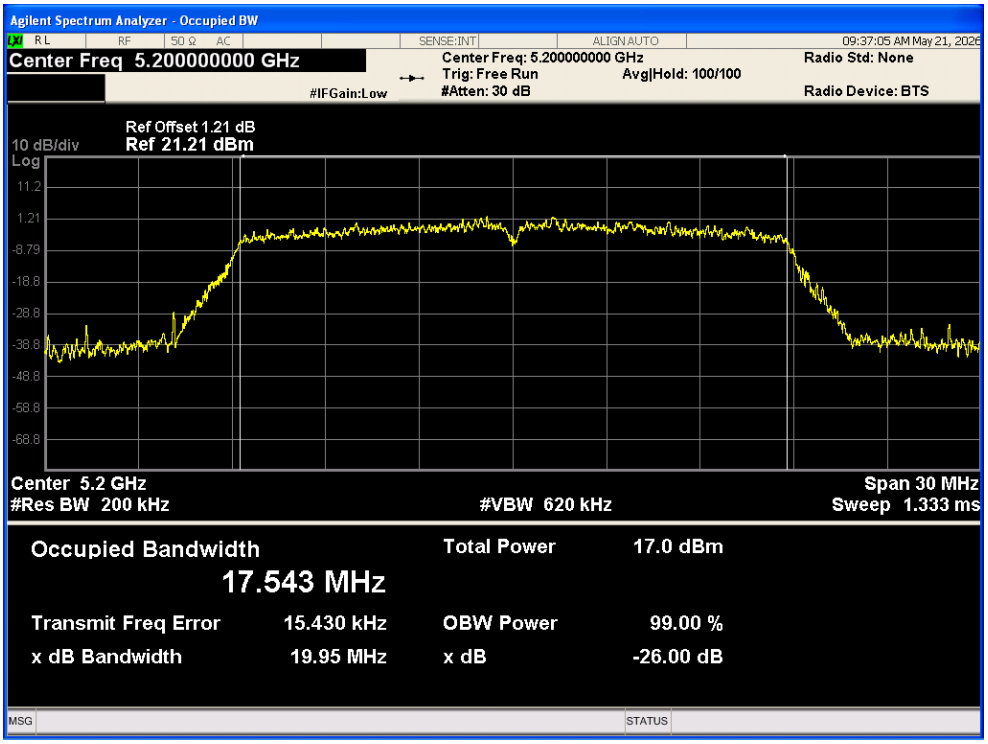
OBW NVNT a 5240MHz Ant1



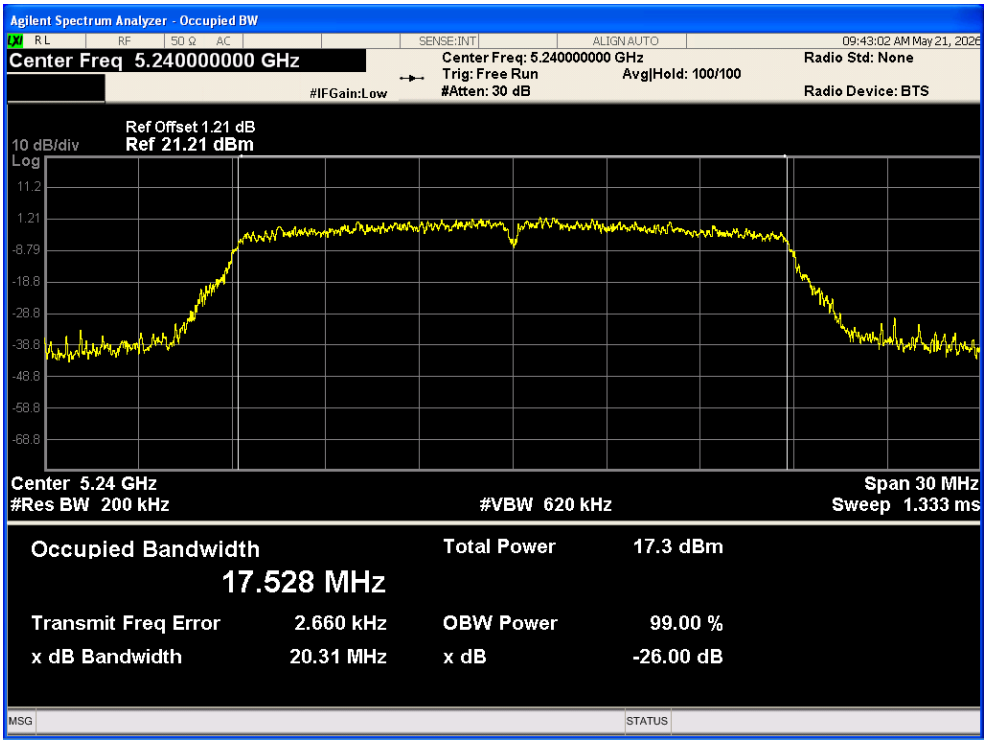
OBW NVNT ac20 5180MHz Ant1



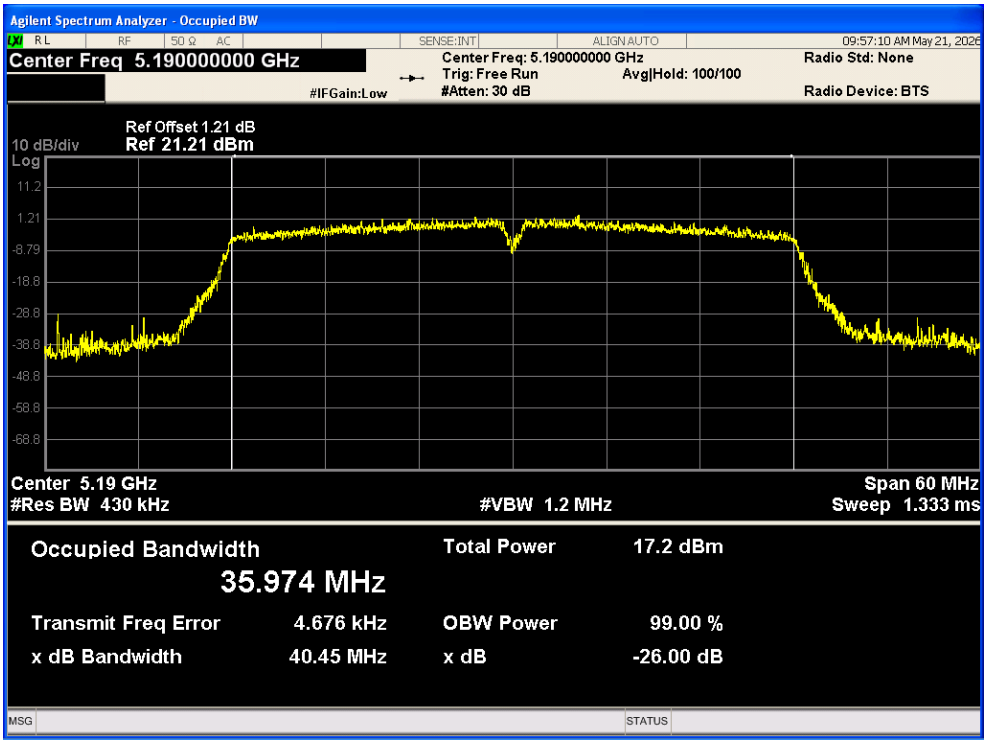
OBW NVNT ac20 5200MHz Ant1



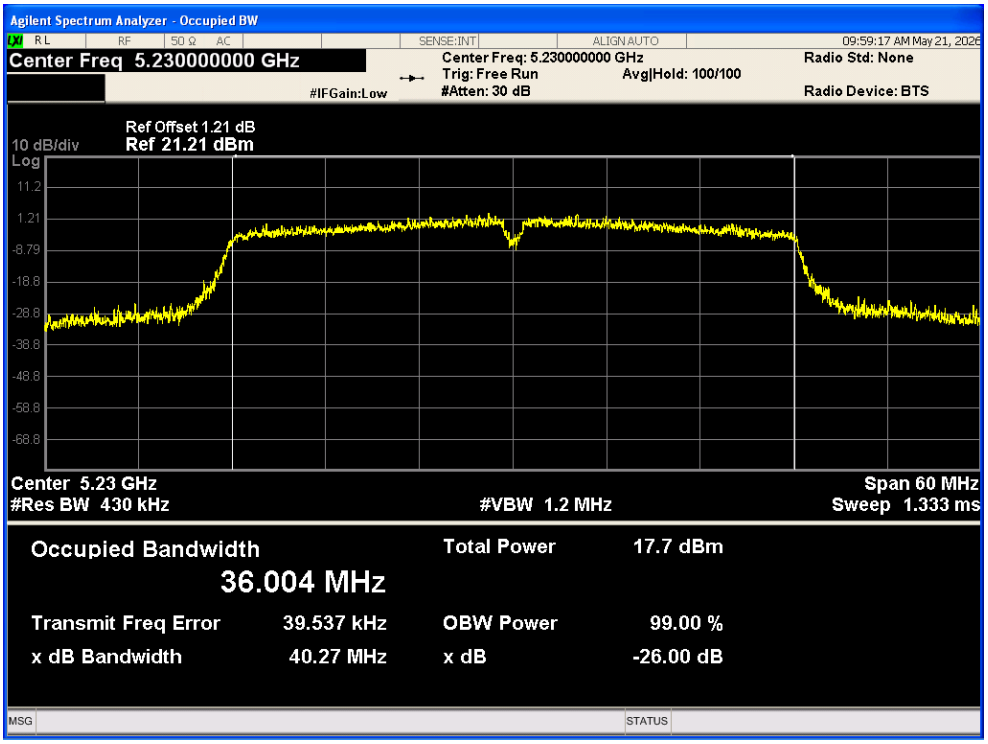
OBW NVNT ac20 5240MHz Ant1



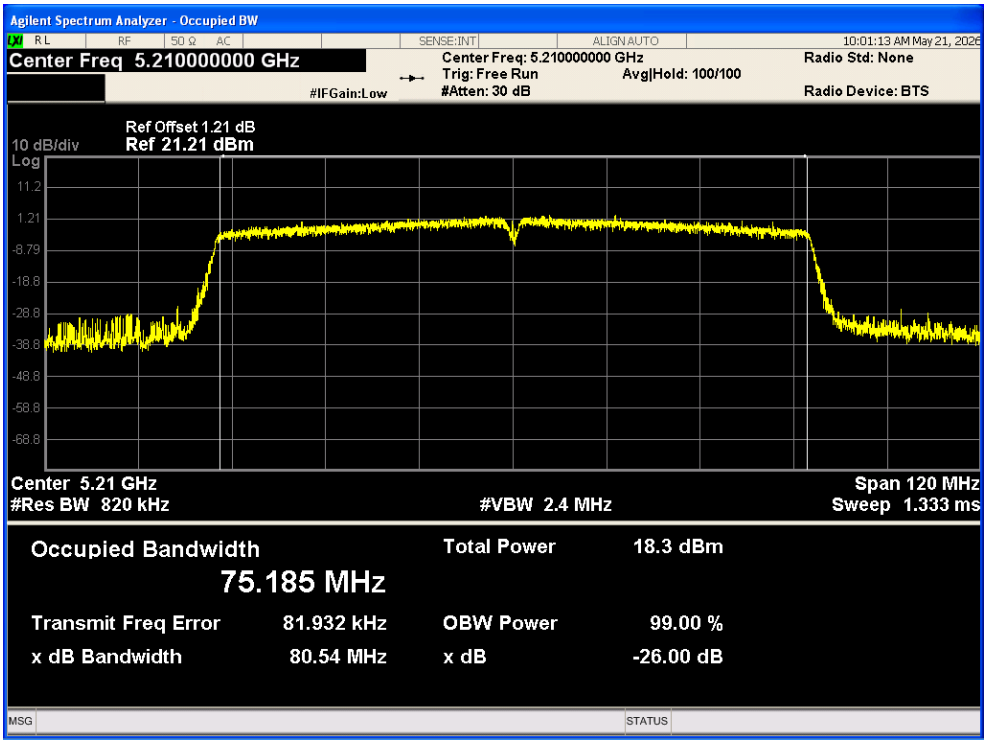
OBW NVNT ac40 5190MHz Ant1



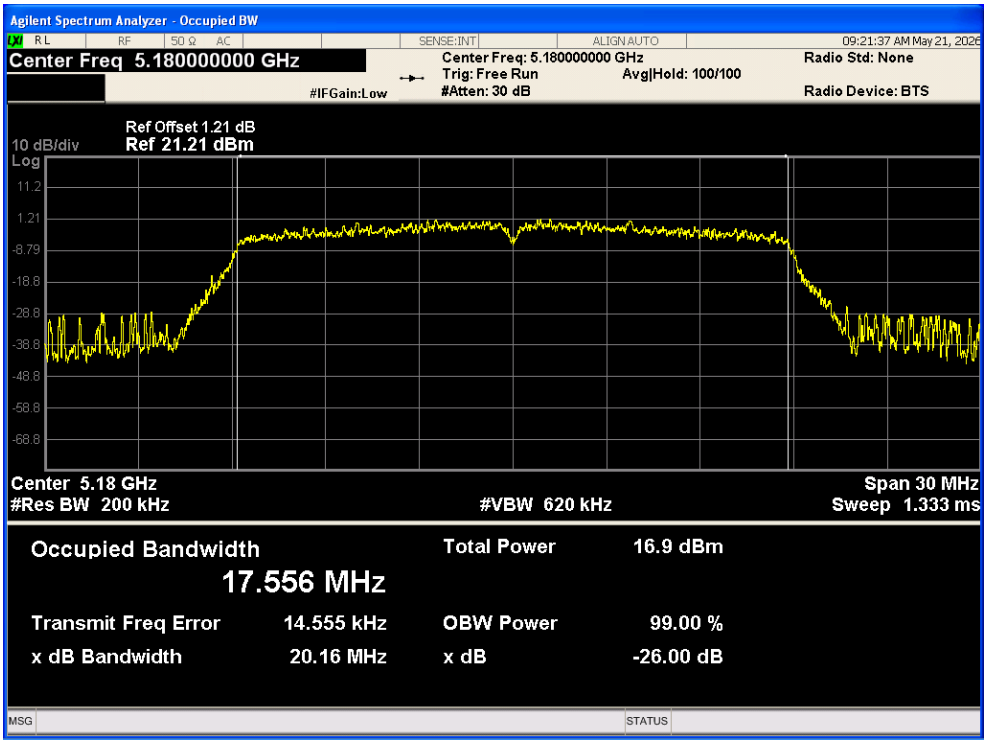
OBW NVNT ac40 5230MHz Ant1



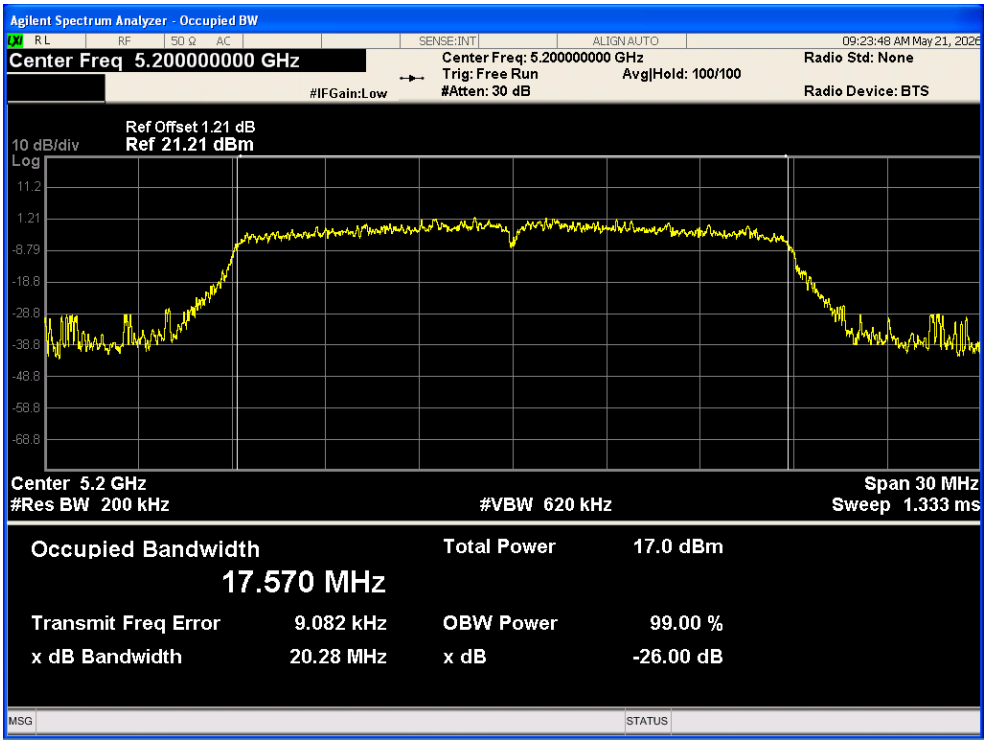
OBW NVNT ac80 5210MHz Ant1



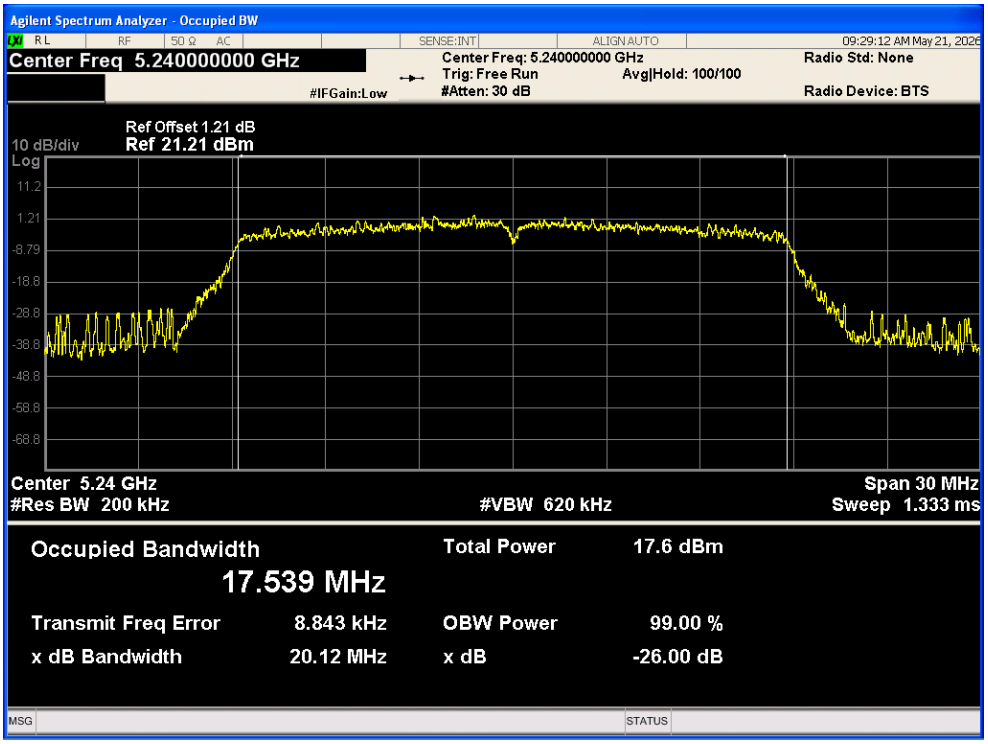
OBW NVNT n20 5180MHz Ant1



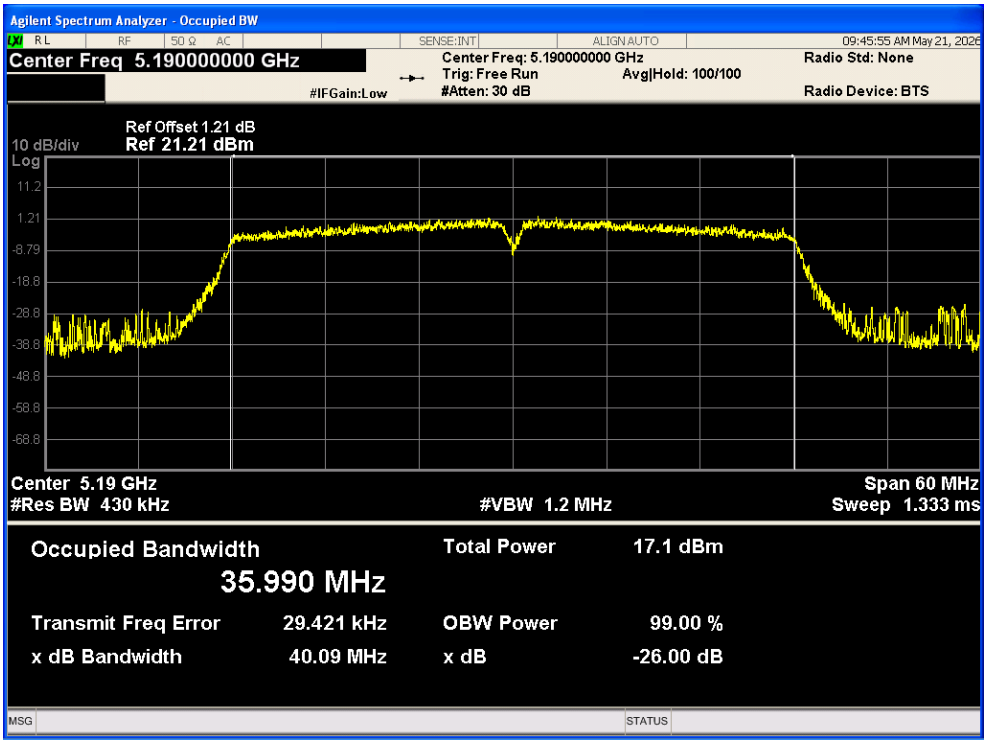
OBW NVNT n20 5200MHz Ant1



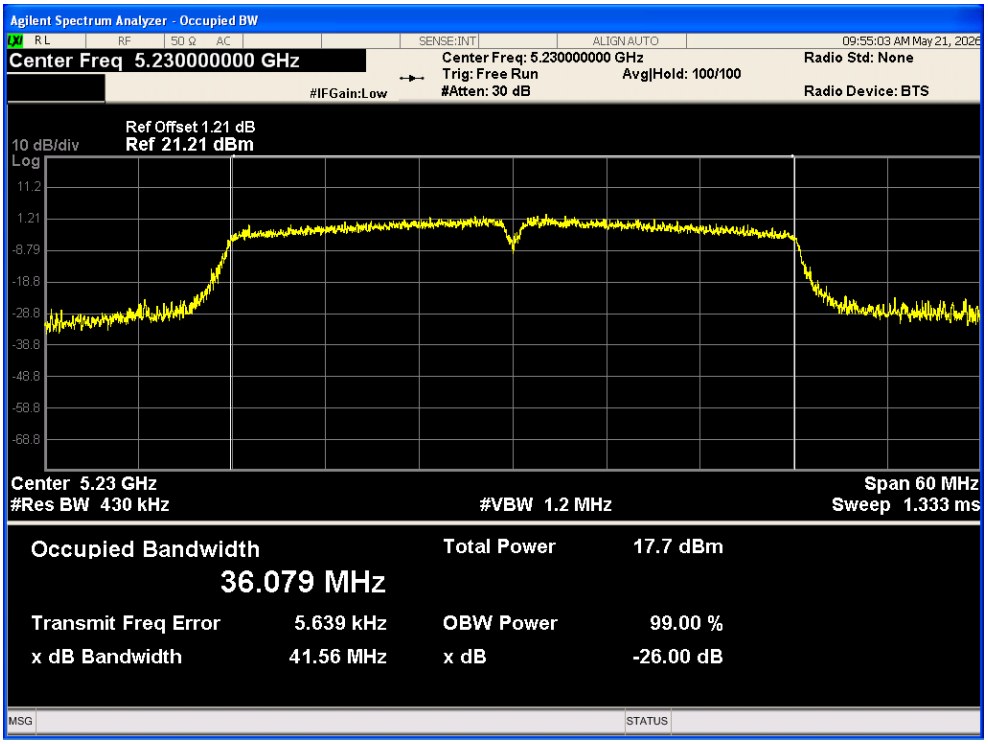
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1

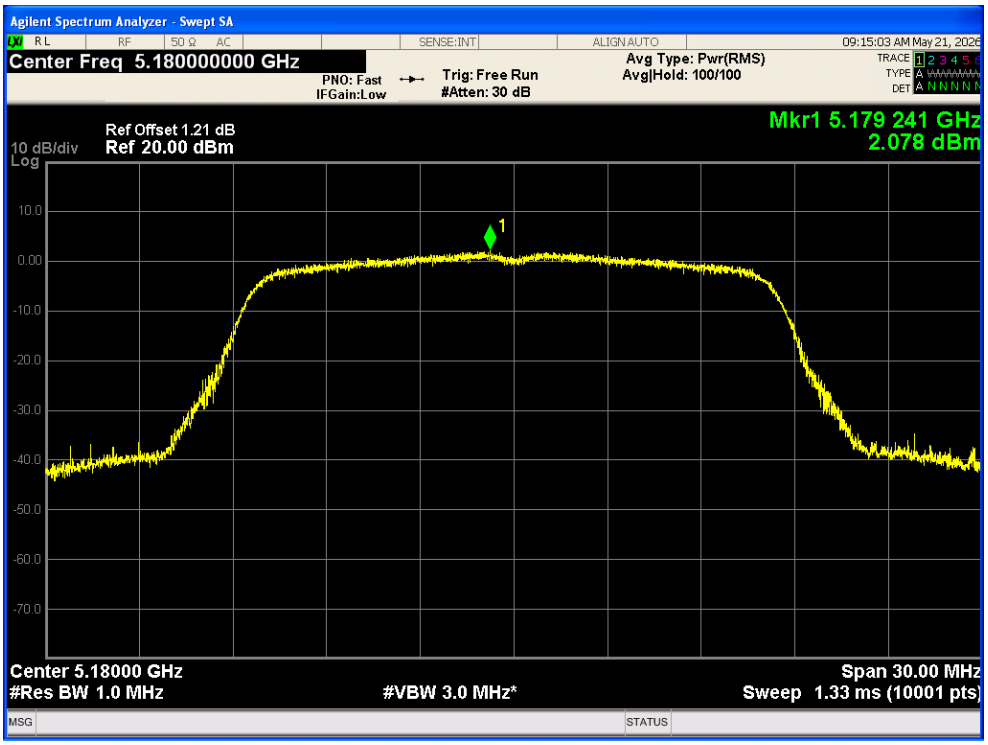


Maximum Power Spectral Density Level

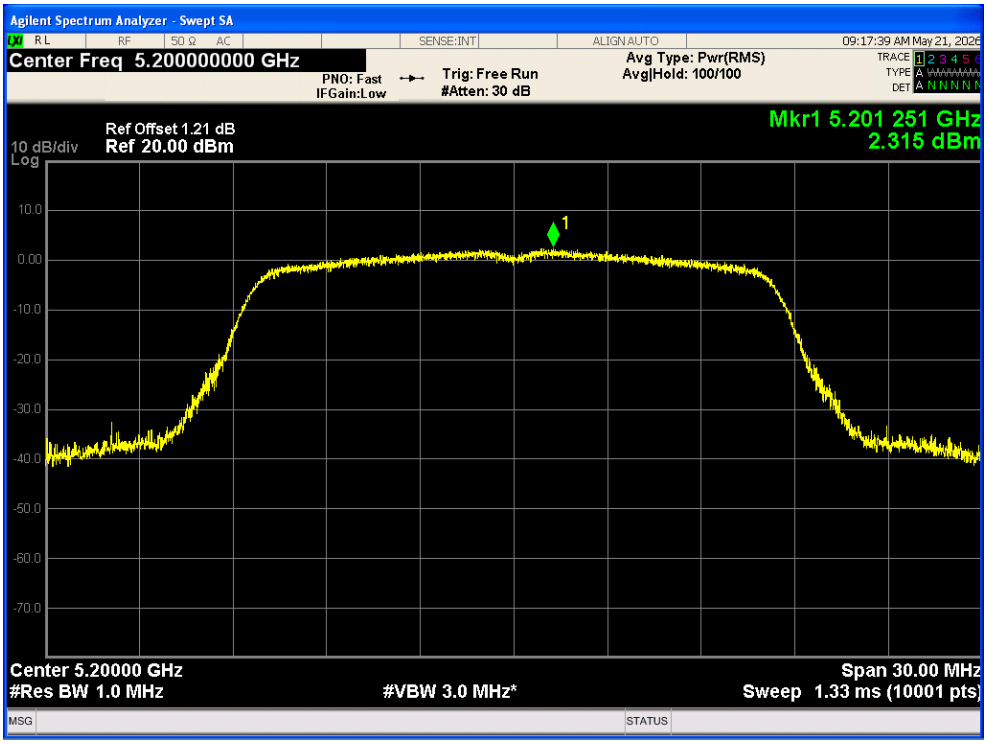
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.078	0.11	2.188	11	Pass
NVNT	a	5200	Ant1	2.315	0.11	2.425	11	Pass
NVNT	a	5240	Ant1	2.082	0.1	2.182	11	Pass
NVNT	ac20	5180	Ant1	1.33	0.11	1.44	11	Pass

NVNT	ac20	5200	Ant1	1.278	0.11	1.388	11	Pass
NVNT	ac20	5240	Ant1	1.84	0.11	1.95	11	Pass
NVNT	ac40	5190	Ant1	-1.194	0.22	-0.974	11	Pass
NVNT	ac40	5230	Ant1	-0.728	0.22	-0.508	11	Pass
NVNT	ac80	5210	Ant1	-4.281	0.42	-3.861	11	Pass
NVNT	n20	5180	Ant1	1.351	0.11	1.461	11	Pass
NVNT	n20	5200	Ant1	1.44	0.11	1.55	11	Pass
NVNT	n20	5240	Ant1	2.16	0.11	2.27	11	Pass
NVNT	n40	5190	Ant1	-1.572	0.22	-1.352	11	Pass
NVNT	n40	5230	Ant1	-1.481	0.22	-1.261	11	Pass

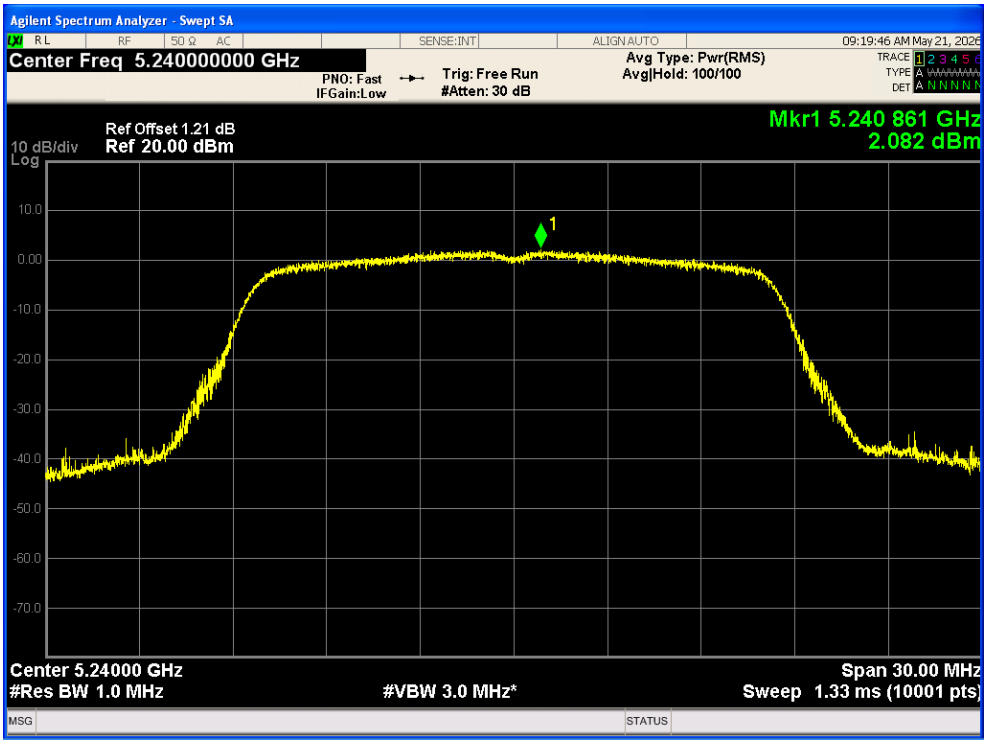
PSD NVNT a 5180MHz Ant1



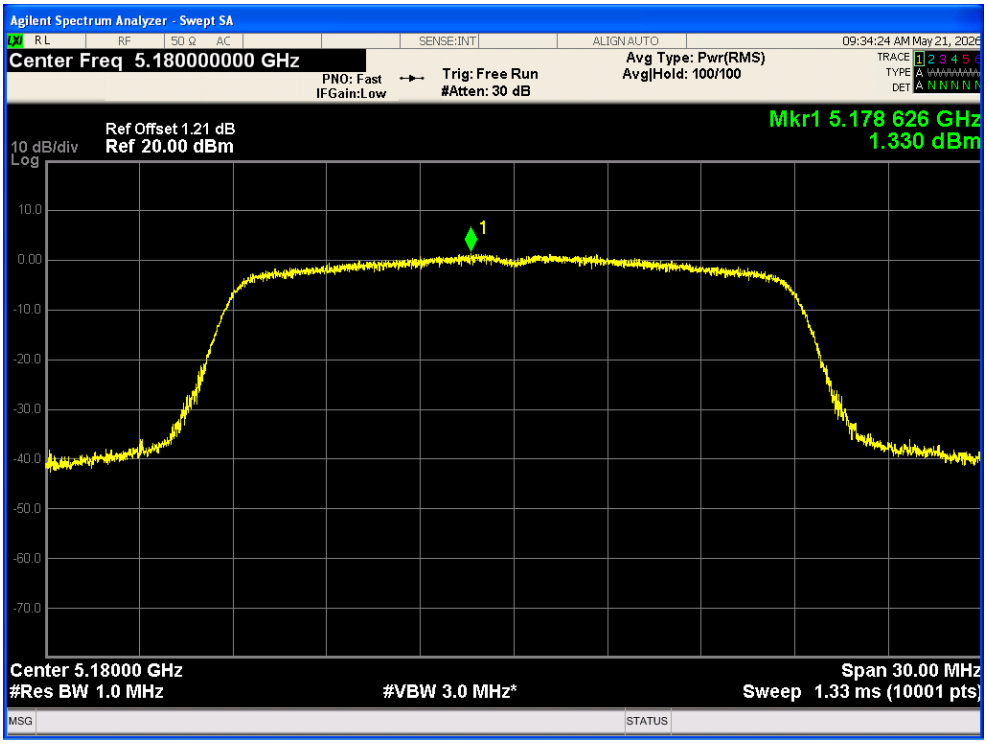
PSD NVNT a 5200MHz Ant1



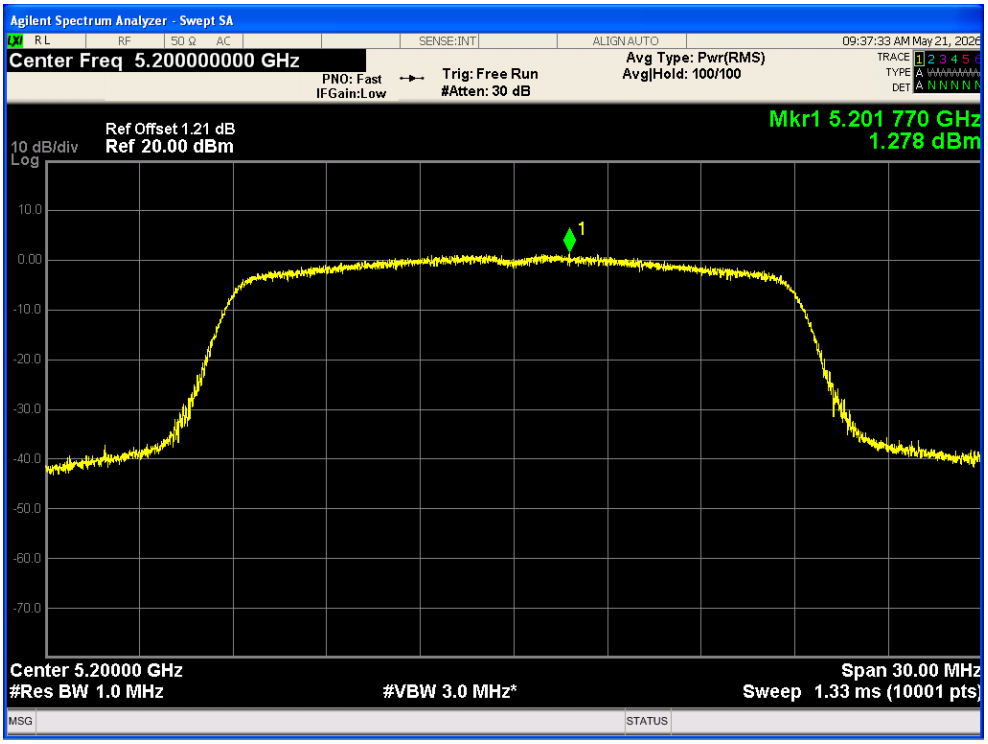
PSD NVNT a 5240MHz Ant1



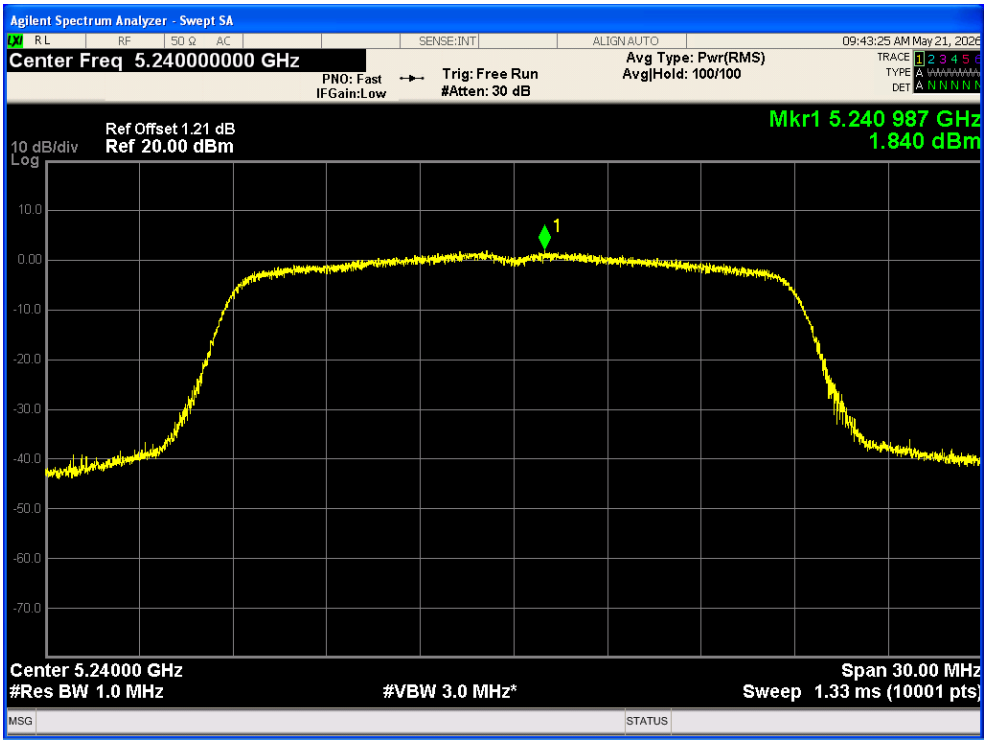
PSD NVNT ac20 5180MHz Ant1



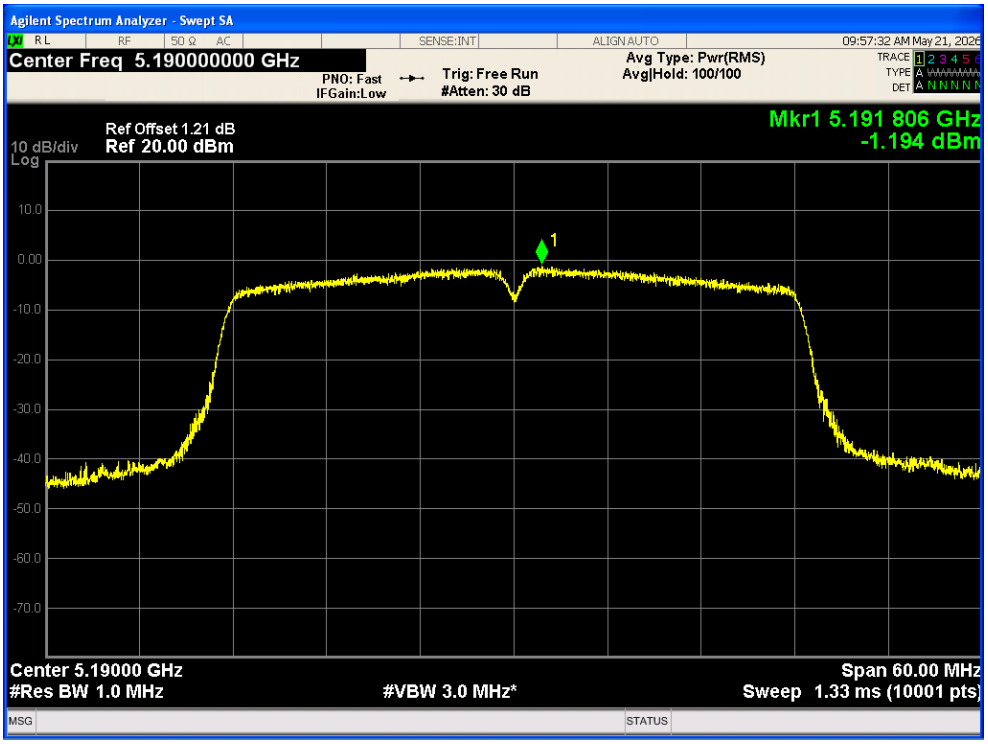
PSD NVNT ac20 5200MHz Ant1



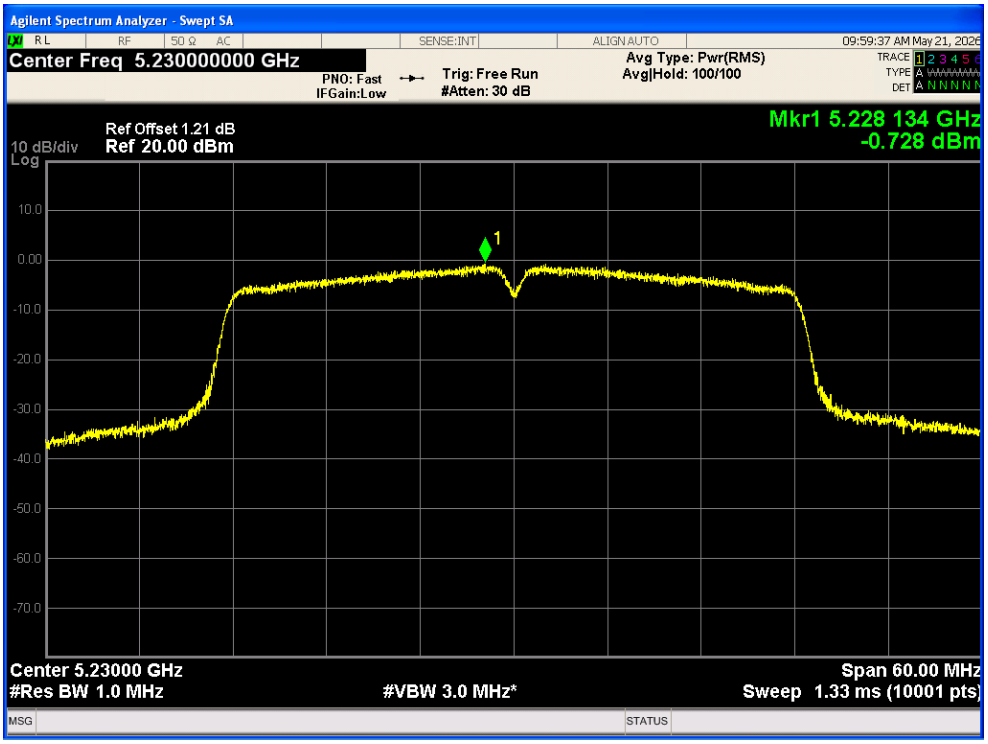
PSD NVNT ac20 5240MHz Ant1



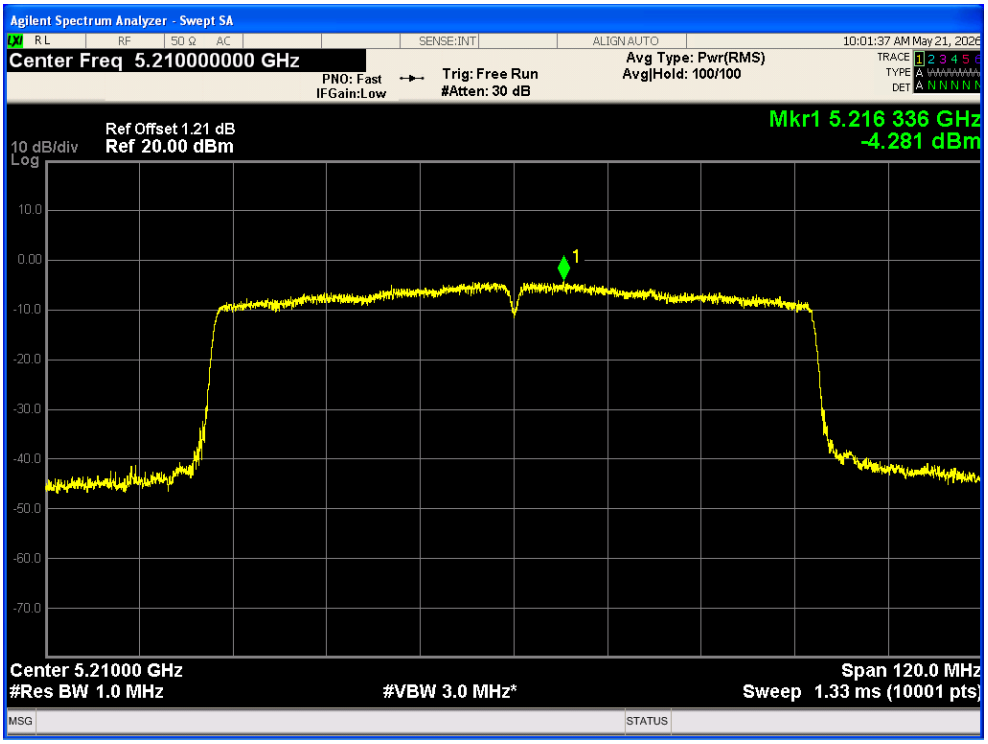
PSD NVNT ac40 5190MHz Ant1



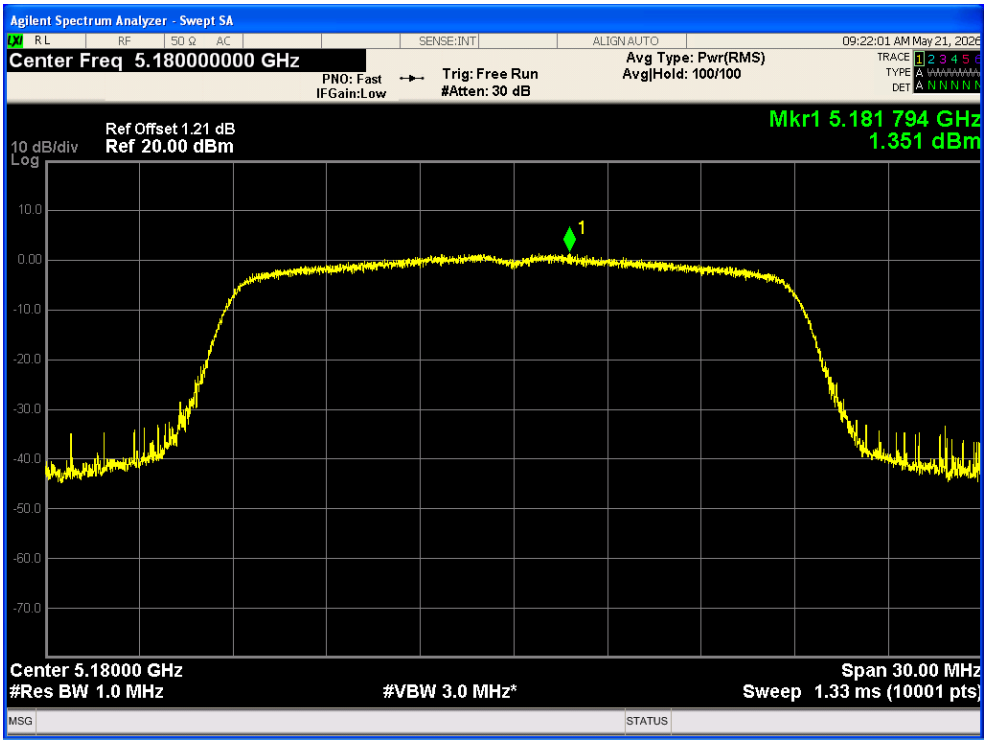
PSD NVNT ac40 5230MHz Ant1



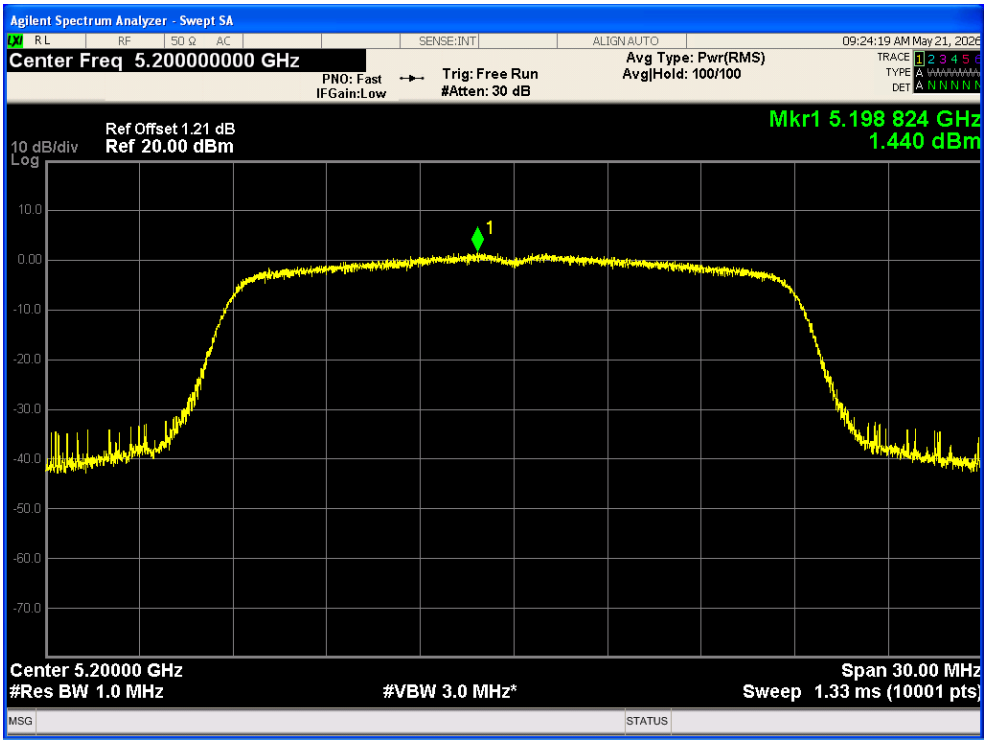
PSD NVNT ac80 5210MHz Ant1



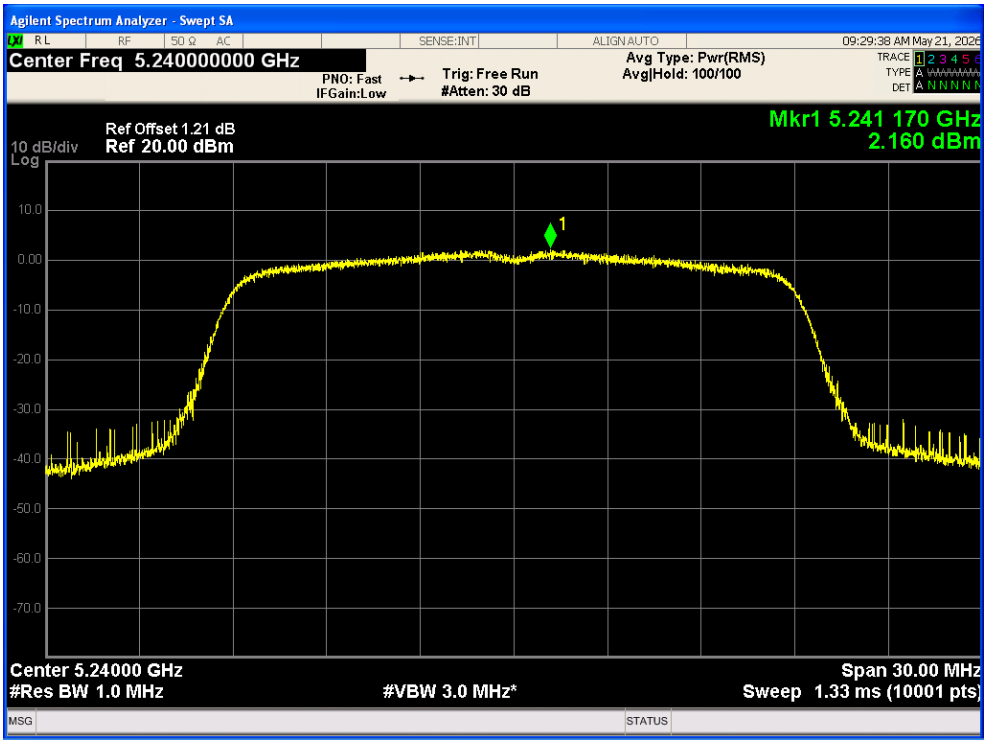
PSD NVNT n20 5180MHz Ant1



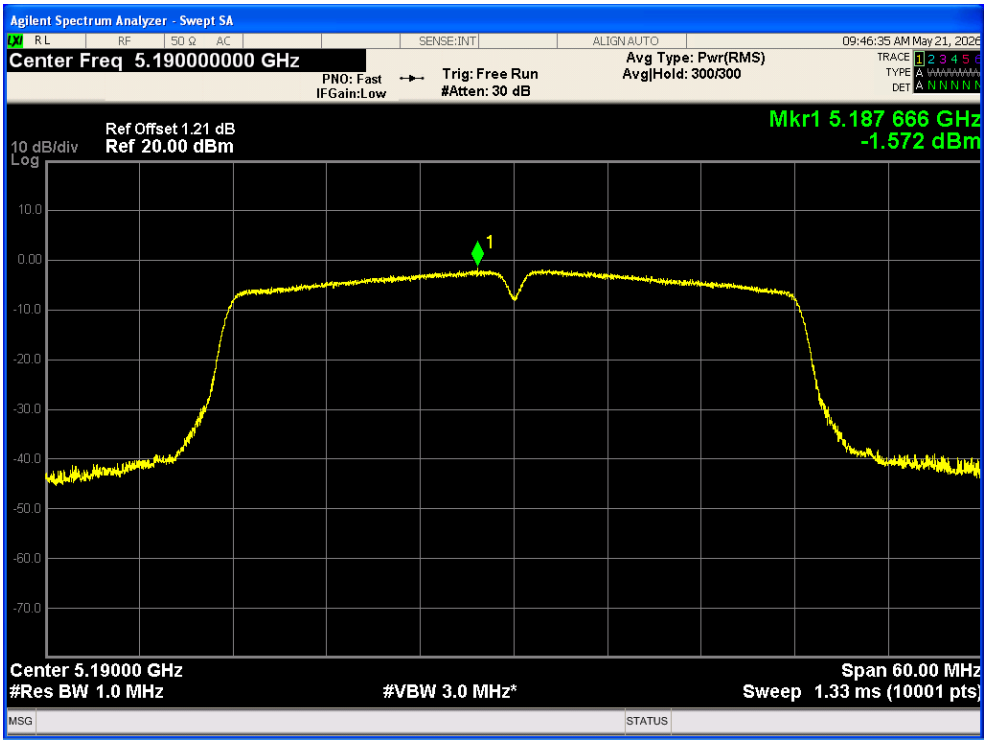
PSD NVNT n20 5200MHz Ant1



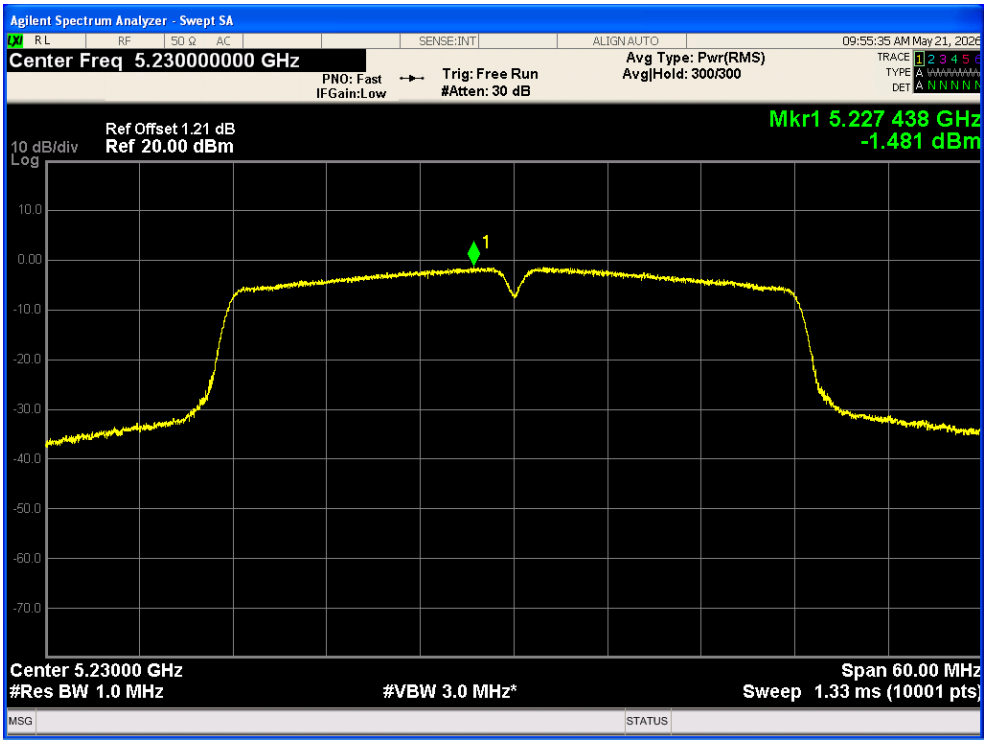
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



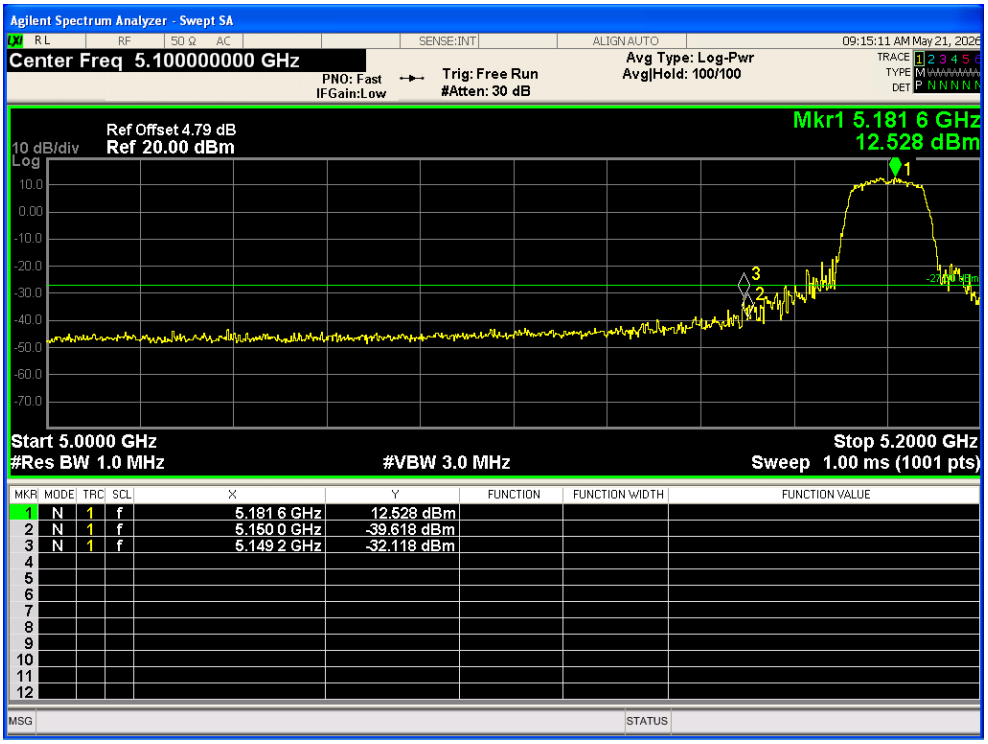
PSD NVNT n40 5230MHz Ant1



Band Edge

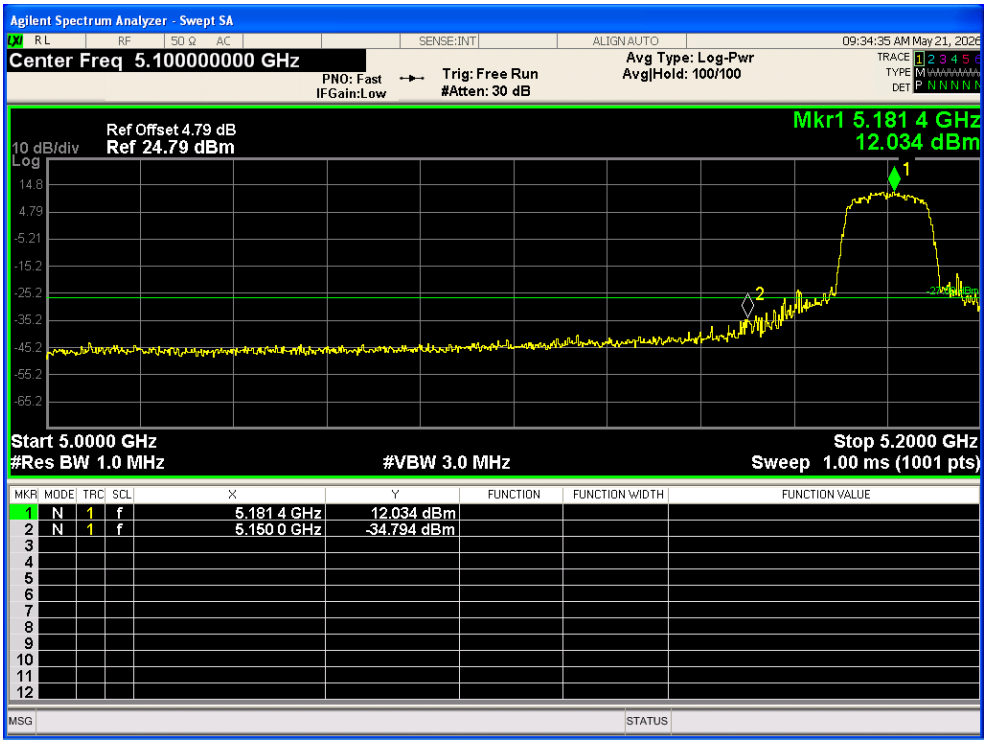
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-32.11	-27	Pass
NVNT	a	5240	Ant1	-43.22	-27	Pass
NVNT	ac20	5180	Ant1	-34.79	-27	Pass
NVNT	ac20	5240	Ant1	-42.43	-27	Pass
NVNT	ac40	5190	Ant1	-29.99	-27	Pass
NVNT	ac40	5230	Ant1	-43.24	-27	Pass
NVNT	ac80	5210	Ant1	-41.52	-27	Pass
NVNT	n20	5180	Ant1	-29.03	-27	Pass
NVNT	n20	5240	Ant1	-42.83	-27	Pass
NVNT	n40	5190	Ant1	-27.4	-27	Pass
NVNT	n40	5230	Ant1	-43.57	-27	Pass

Band Edge NVNT a 5180MHz Low Ant1

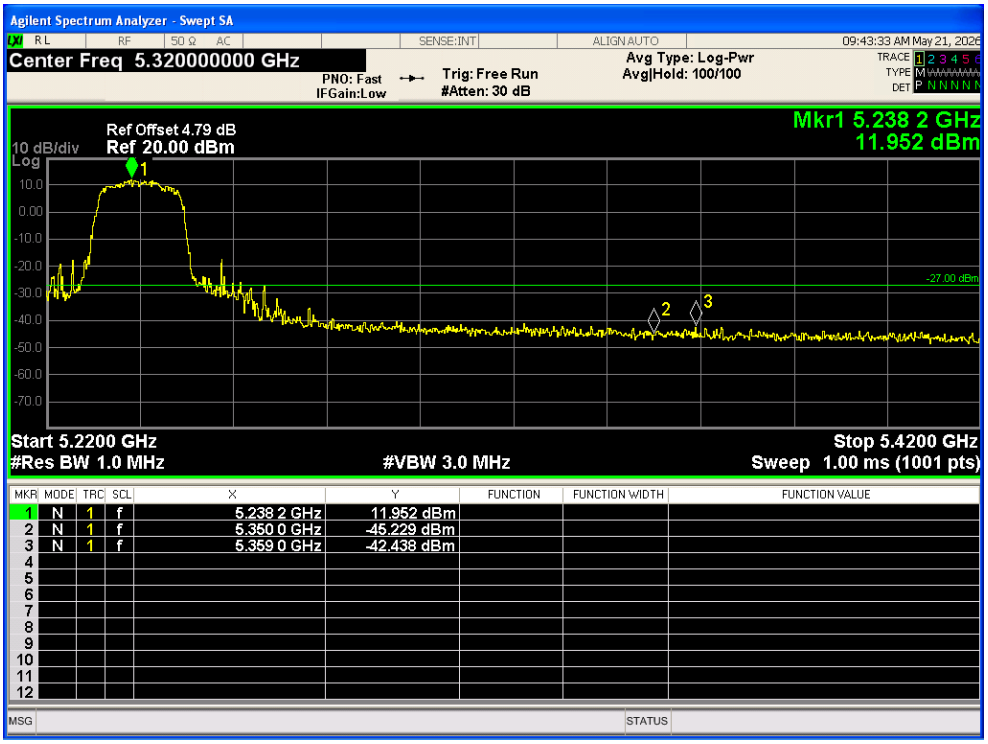


Band Edge NVNT a 5240MHz High Ant1

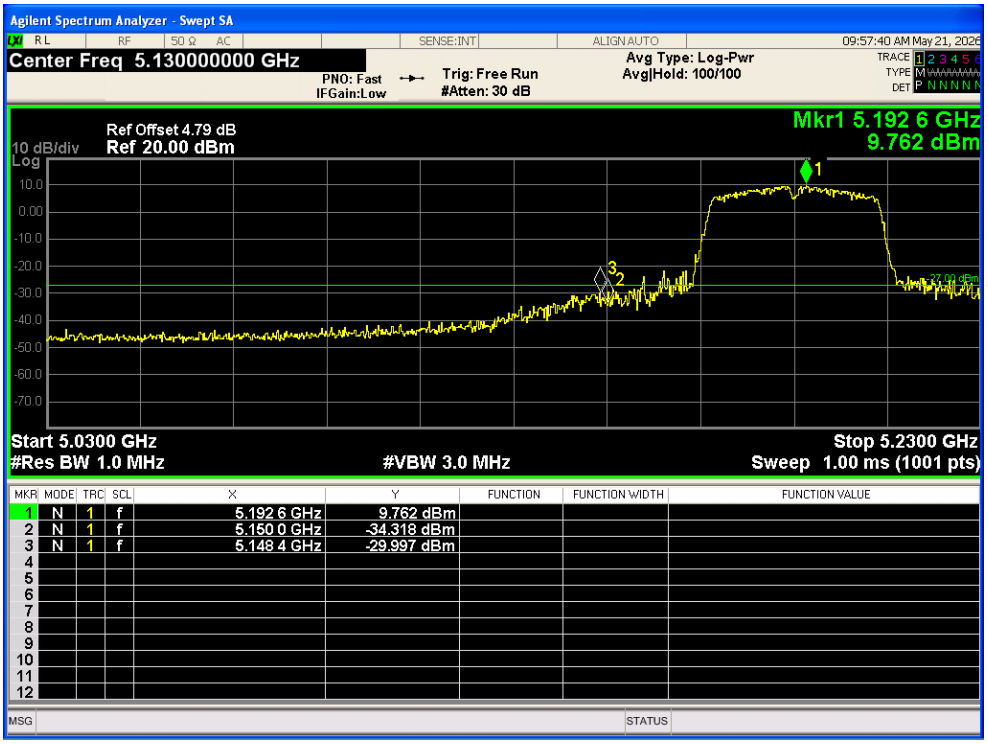
Band Edge NVNT ac20 5180MHz Low Ant1



Band Edge NVNT ac20 5240MHz High Ant1



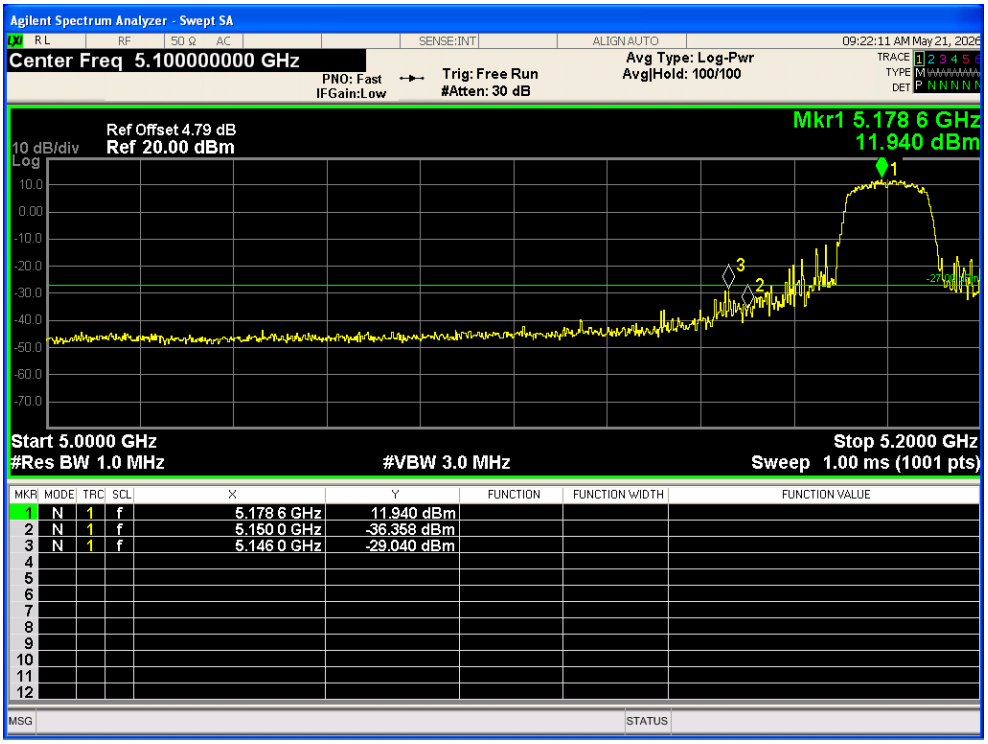
Band Edge NVNT ac40 5190MHz Low Ant1



Band Edge NVNT ac40 5230MHz High Ant1

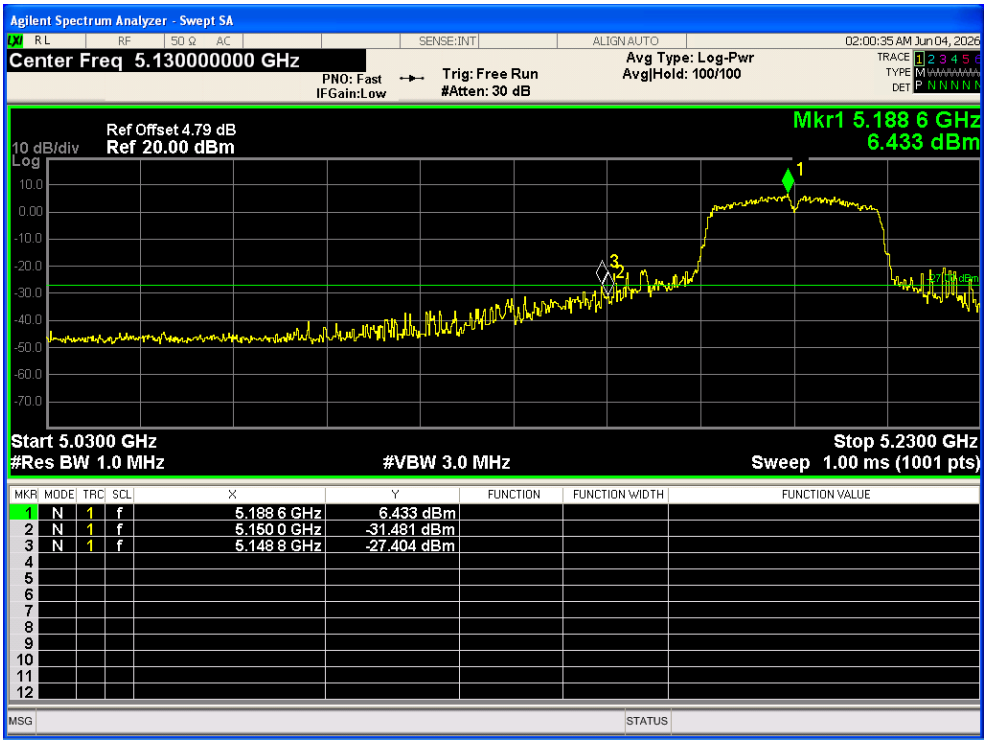
Band Edge NVNT ac80 5210MHz High Ant1

Band Edge NVNT n20 5180MHz Low Ant1



Band Edge NVNT n20 5240MHz High Ant1

Band Edge NVNT n40 5190MHz Low Ant1

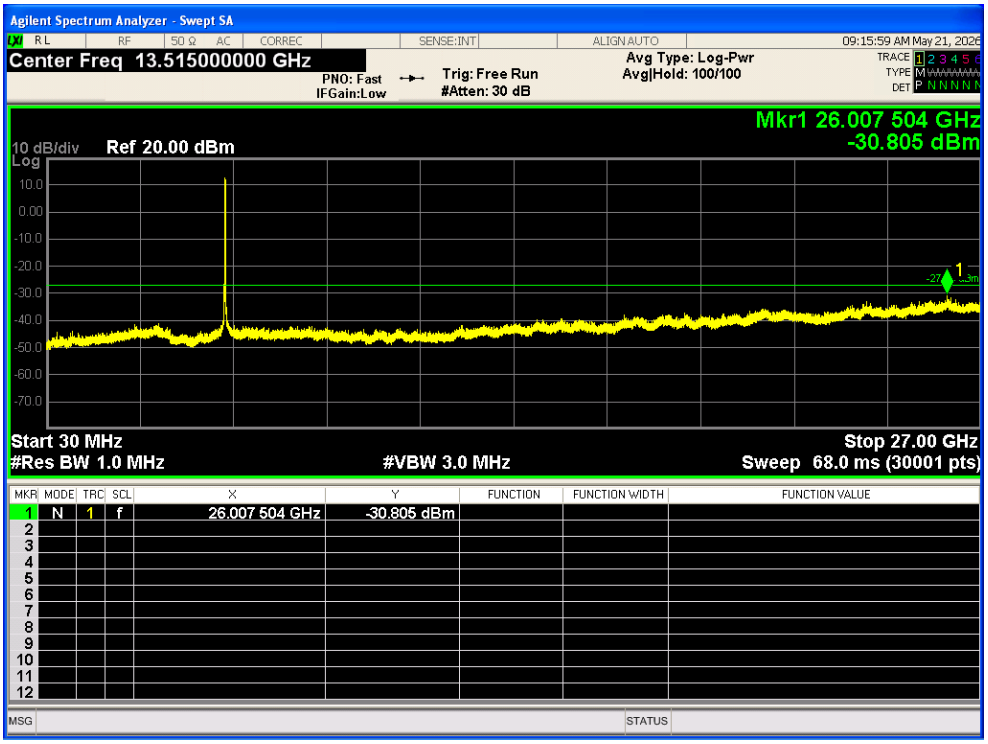


Band Edge NVNT n40 5230MHz High Ant1

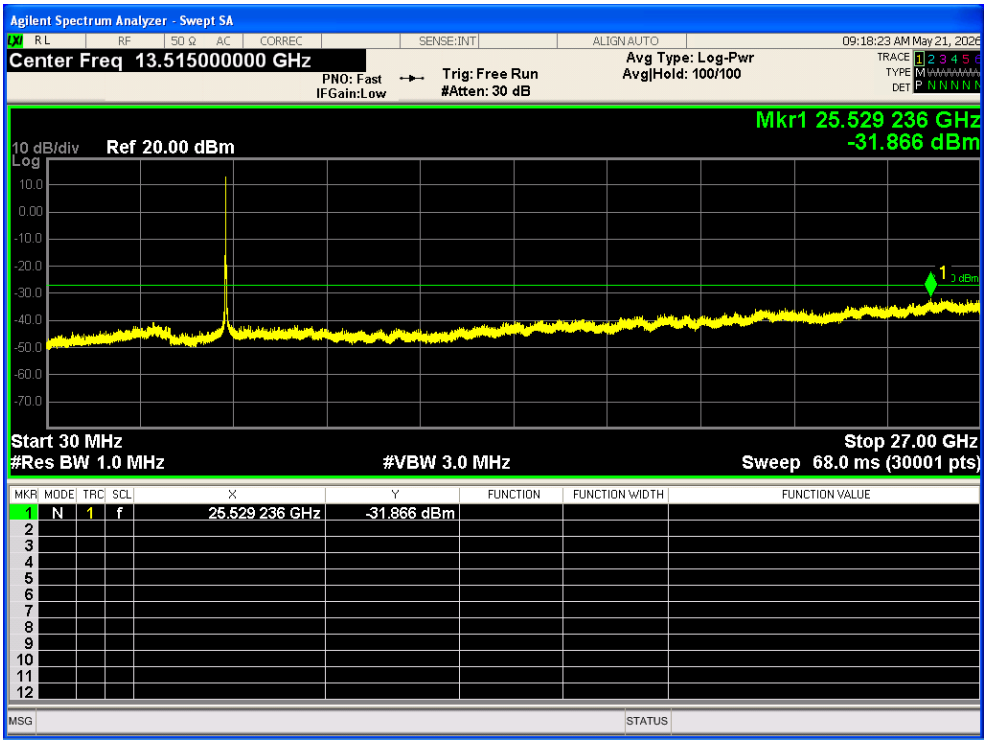
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-30.8	-27	Pass
NVNT	a	5200	Ant1	-31.86	-27	Pass
NVNT	a	5240	Ant1	-32.38	-27	Pass
NVNT	ac20	5180	Ant1	-31.64	-27	Pass
NVNT	ac20	5200	Ant1	-31.9	-27	Pass
NVNT	ac20	5240	Ant1	-32.1	-27	Pass
NVNT	ac40	5190	Ant1	-31.11	-27	Pass
NVNT	ac40	5230	Ant1	-31.56	-27	Pass
NVNT	ac80	5210	Ant1	-39.37	-27	Pass
NVNT	n20	5180	Ant1	-31.68	-27	Pass
NVNT	n20	5200	Ant1	-32.55	-27	Pass
NVNT	n20	5240	Ant1	-32.62	-27	Pass
NVNT	n40	5190	Ant1	-32.29	-27	Pass
NVNT	n40	5230	Ant1	-31.55	-27	Pass

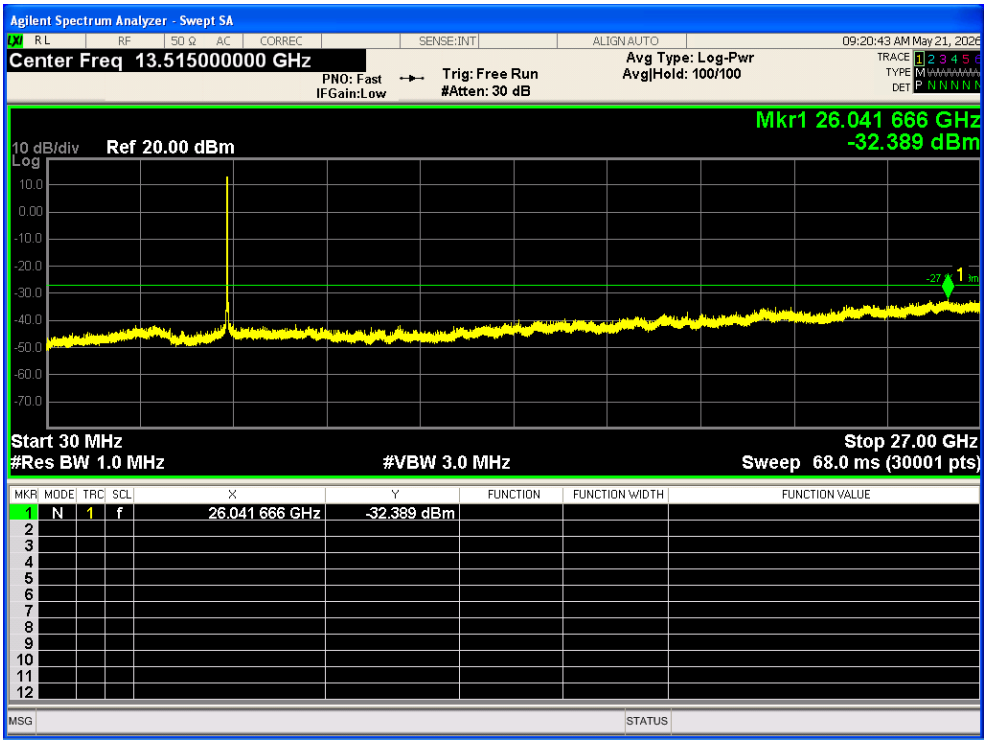
Tx. Spurious NVNT a 5180MHz Ant1 Emission



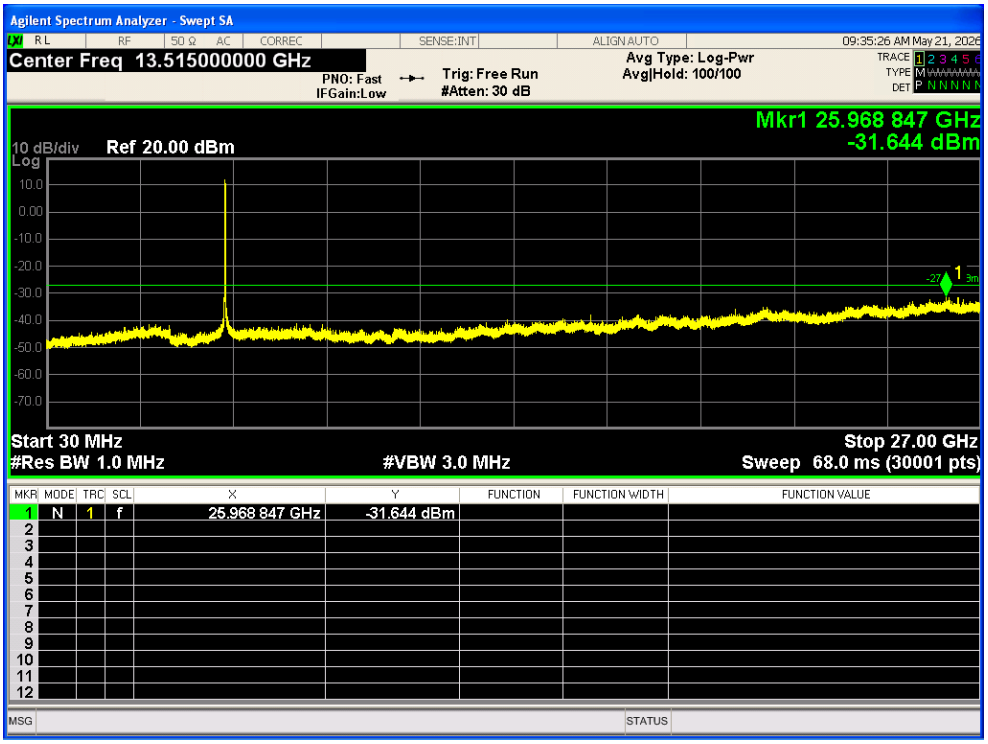
Tx. Spurious NVNT a 5200MHz Ant1 Emission



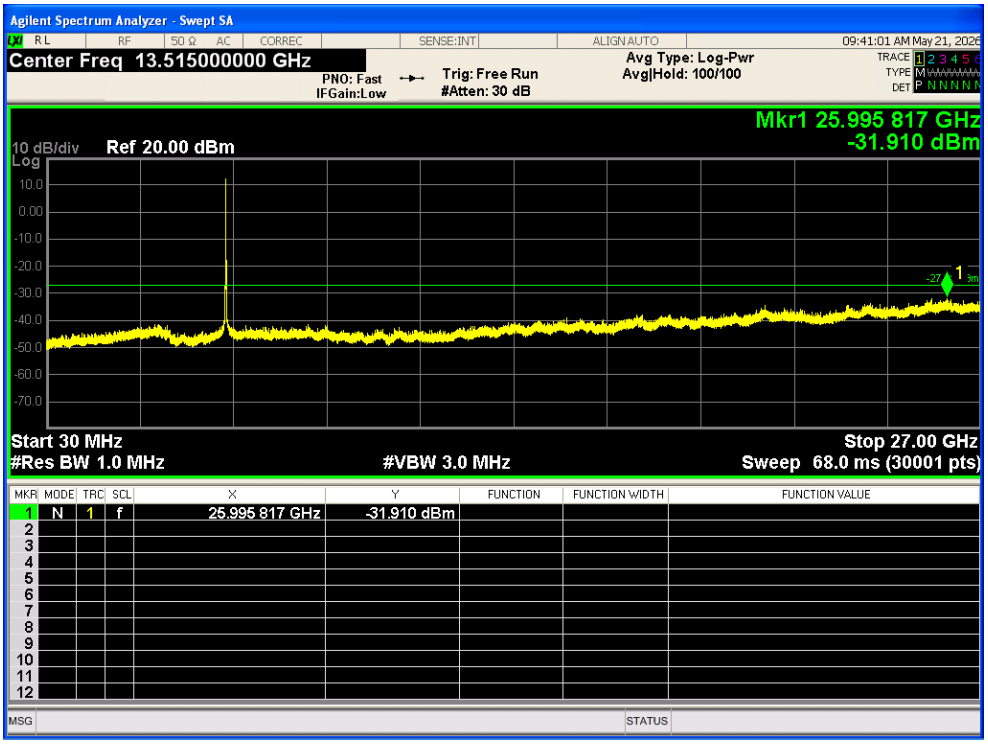
Tx. Spurious NVNT a 5240MHz Ant1 Emission



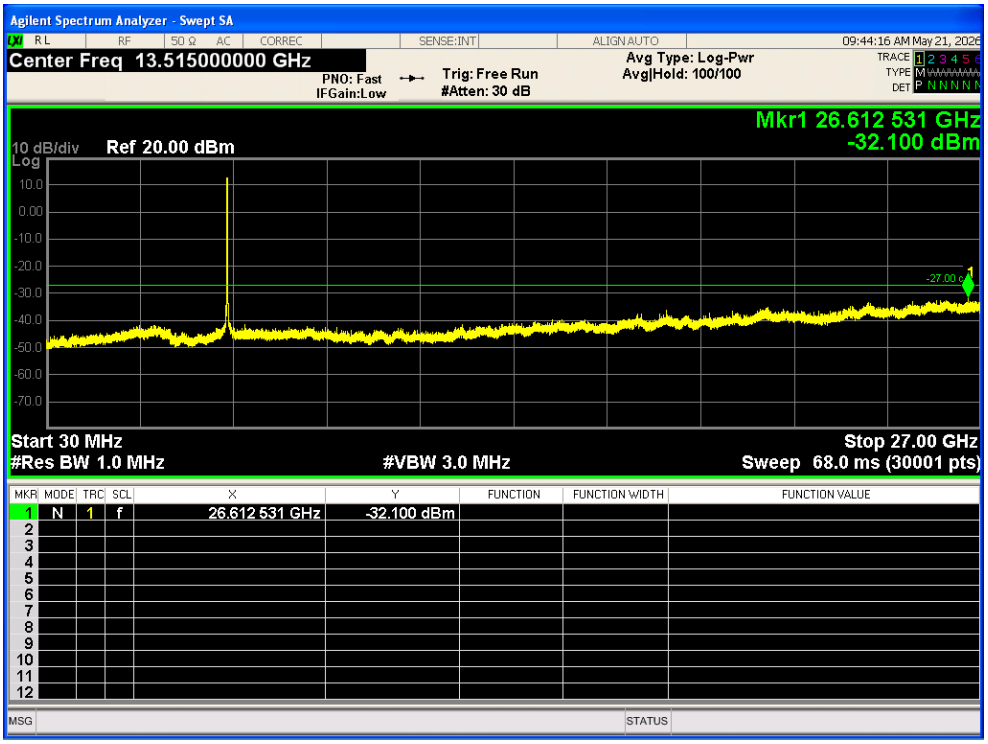
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



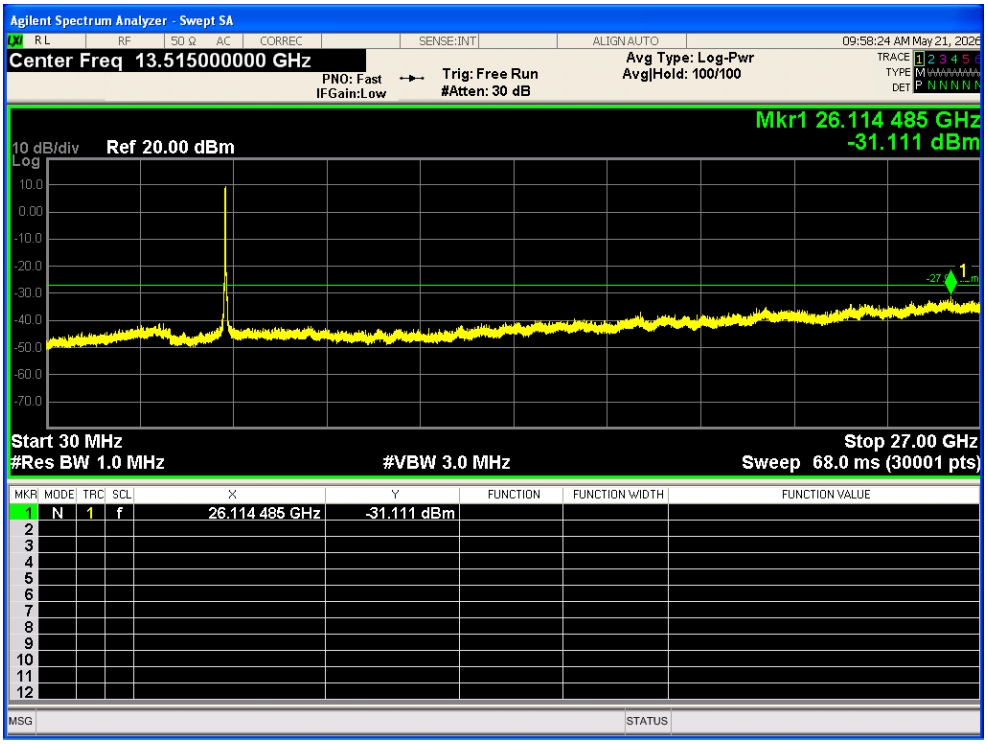
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



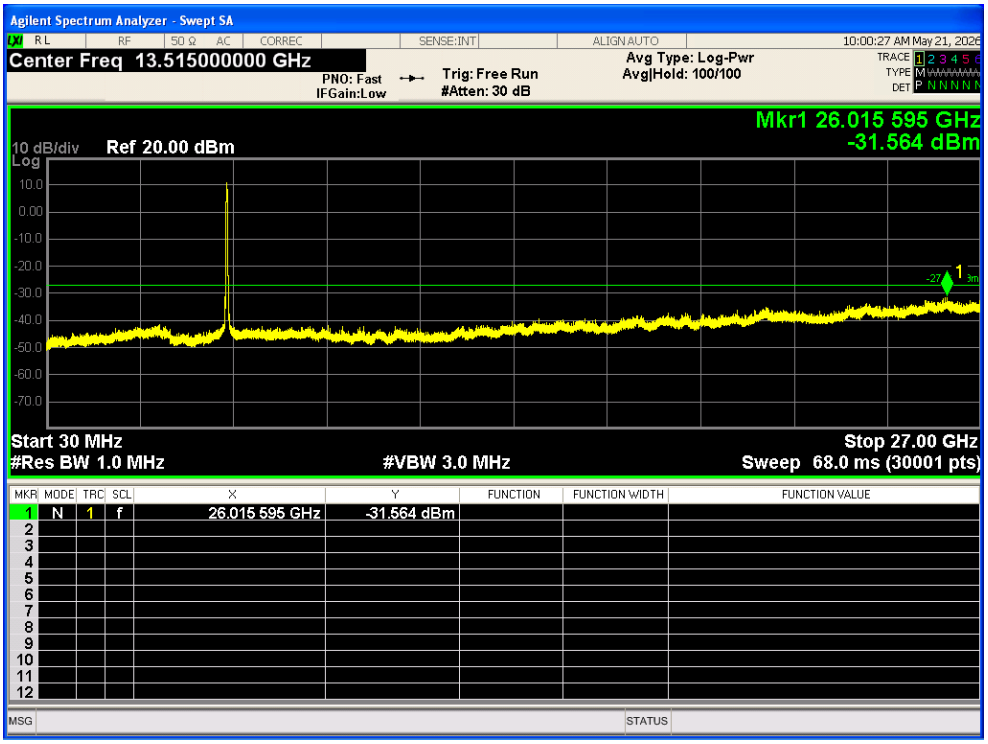
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



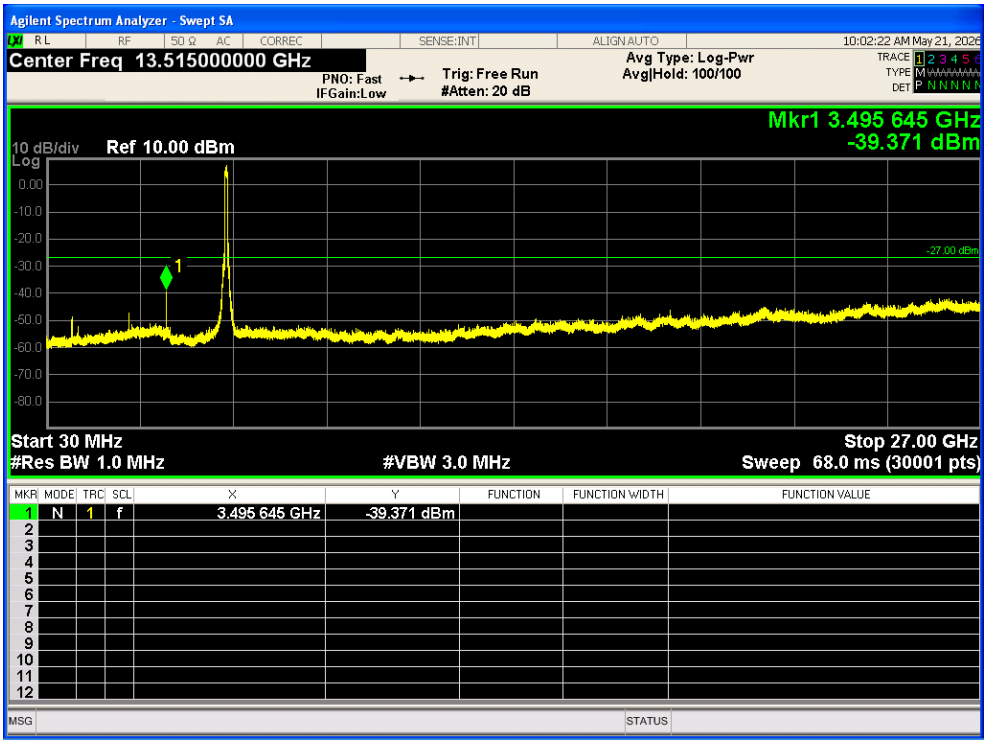
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



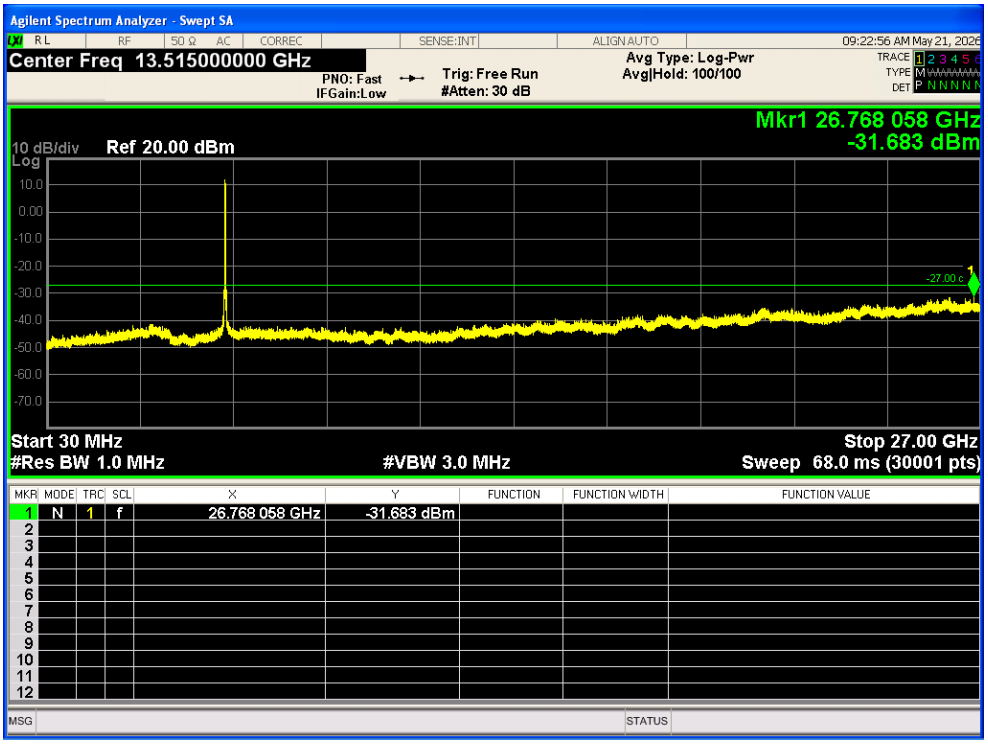
Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



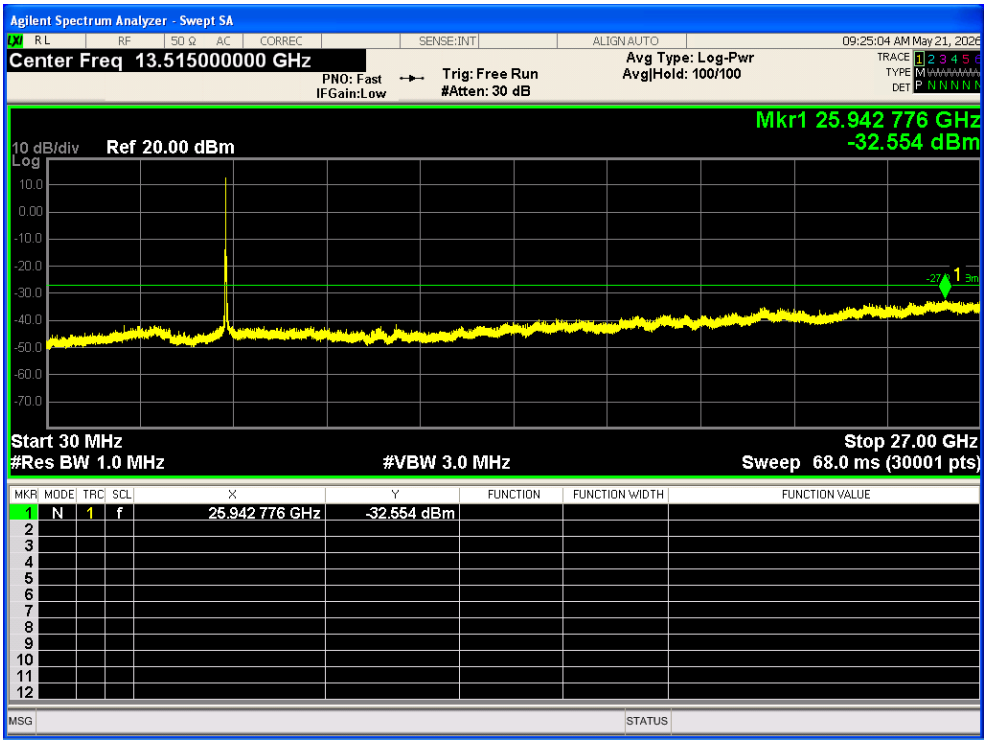
Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



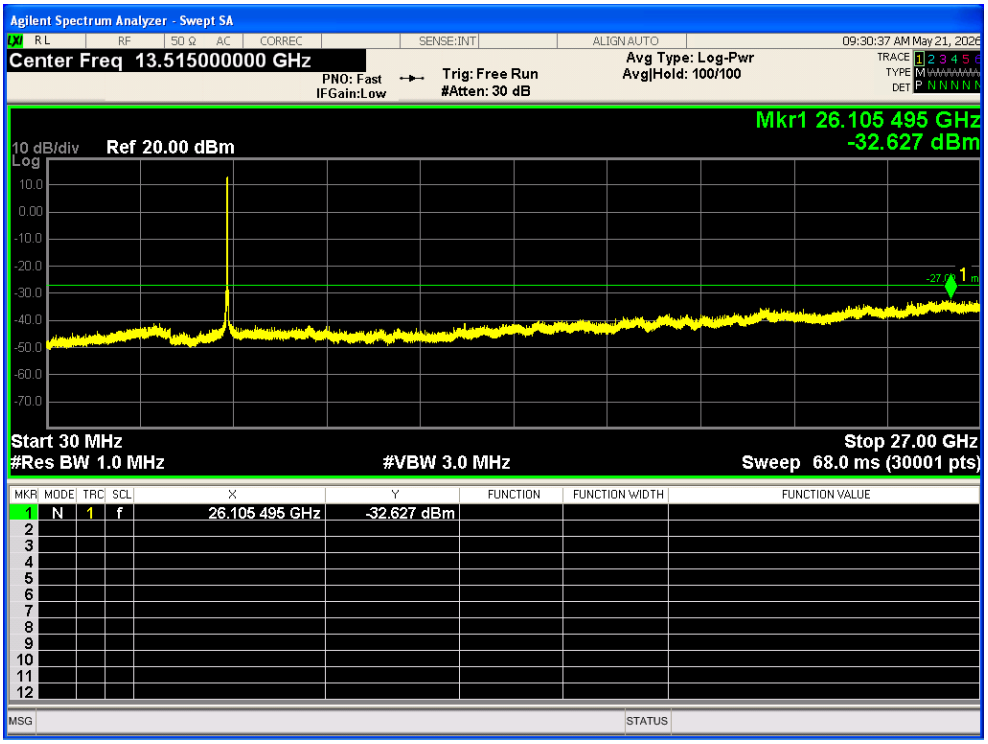
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



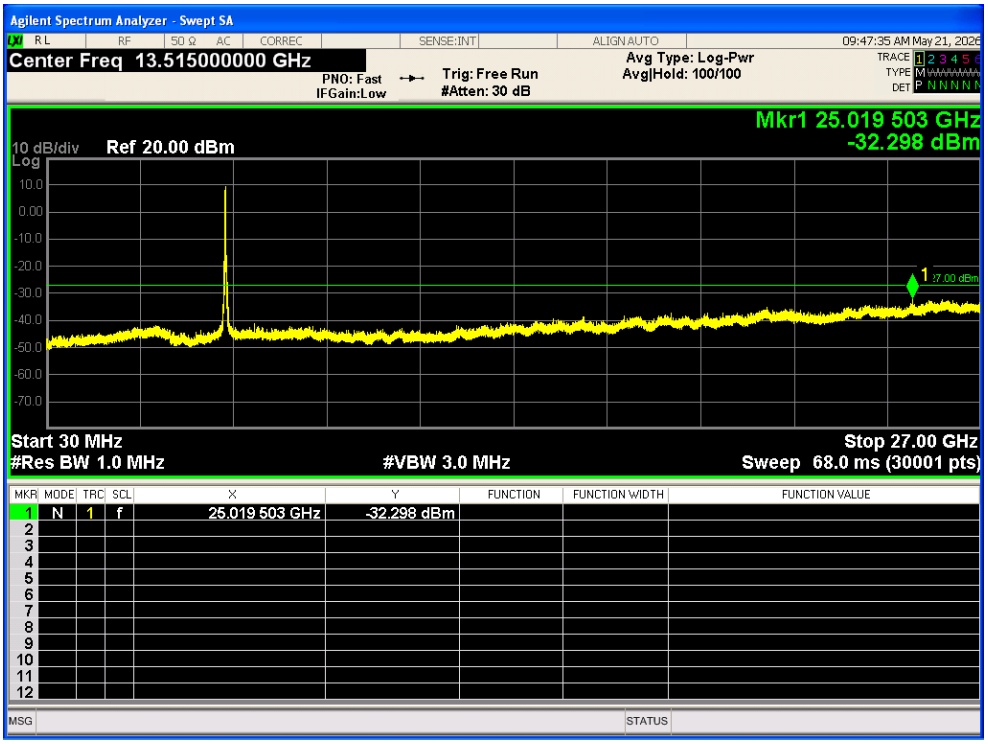
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



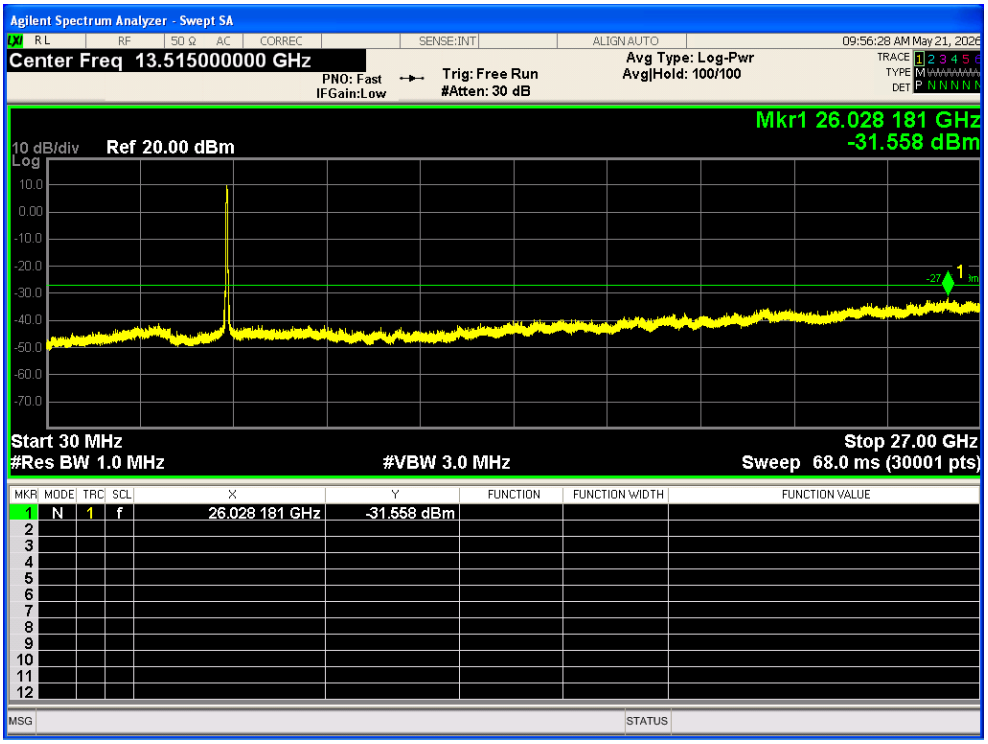
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission

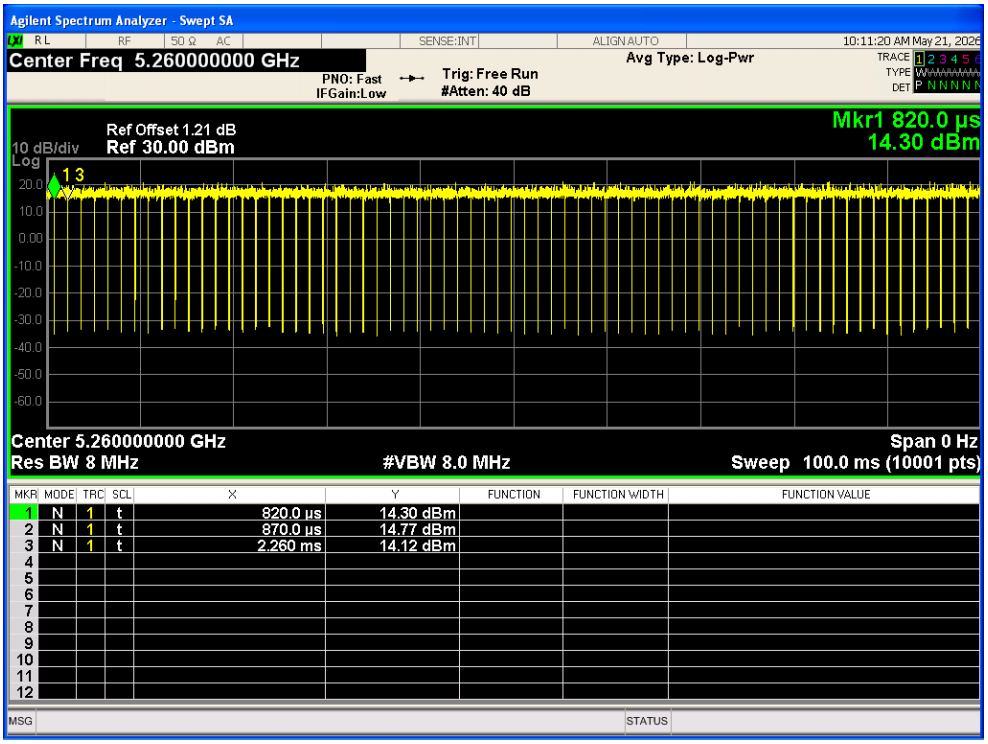


WIFI 5.3G

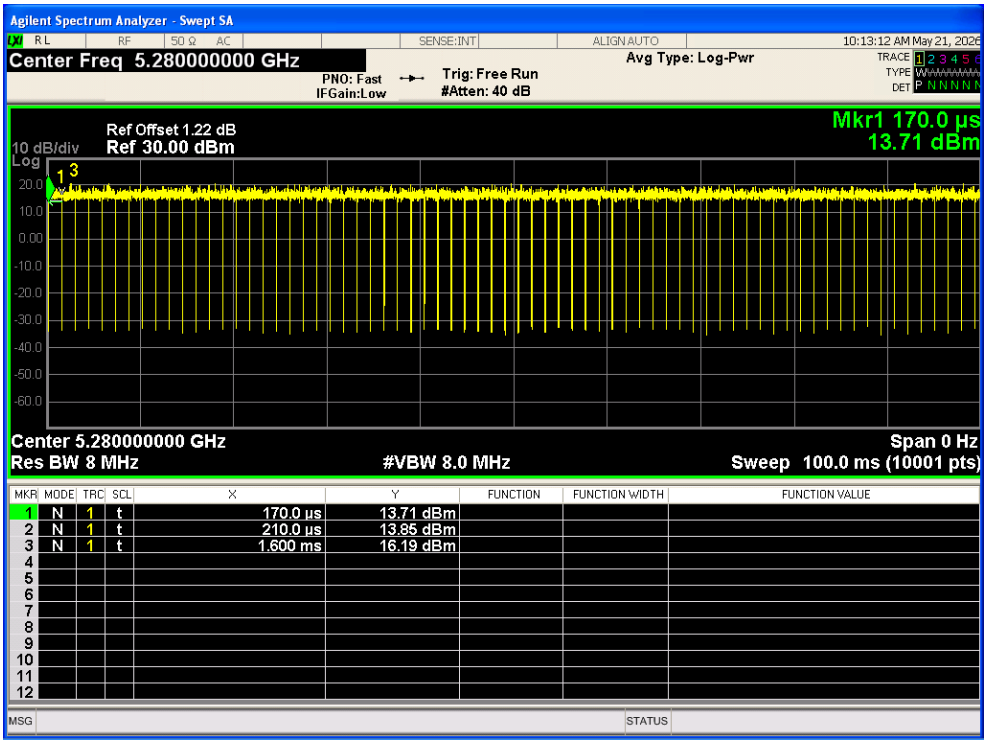
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.55	0.11	0.72
NVNT	a	5280	Ant1	97.59	0.11	0.72
NVNT	a	5320	Ant1	97.61	0.11	0.72
NVNT	ac20	5260	Ant1	97.48	0.11	0.76
NVNT	ac20	5280	Ant1	97.48	0.11	0.76
NVNT	ac20	5320	Ant1	97.43	0.11	0.76
NVNT	ac40	5270	Ant1	95.14	0.22	1.52
NVNT	ac40	5310	Ant1	95.11	0.22	1.52
NVNT	ac80	5290	Ant1	90.75	0.42	3.13
NVNT	n20	5260	Ant1	97.45	0.11	0.77
NVNT	n20	5280	Ant1	97.41	0.11	0.77
NVNT	n20	5320	Ant1	91.31	0.39	2.86
NVNT	n40	5270	Ant1	95.1	0.22	1.54
NVNT	n40	5310	Ant1	95.07	0.22	1.54

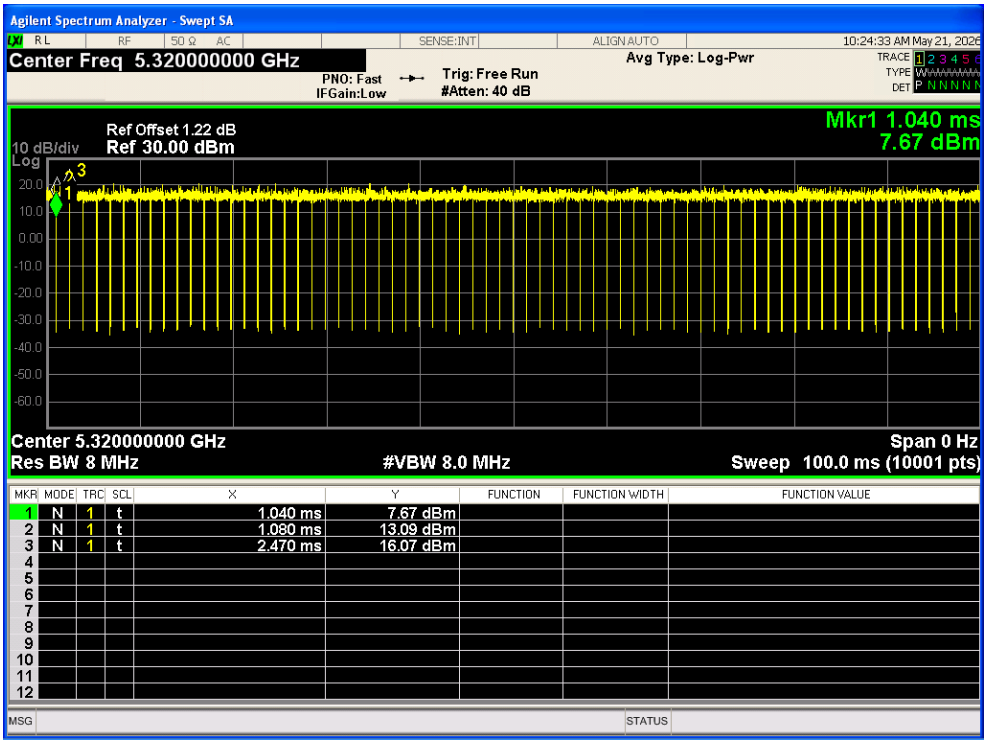
Duty Cycle NVNT a 5260MHz Ant1



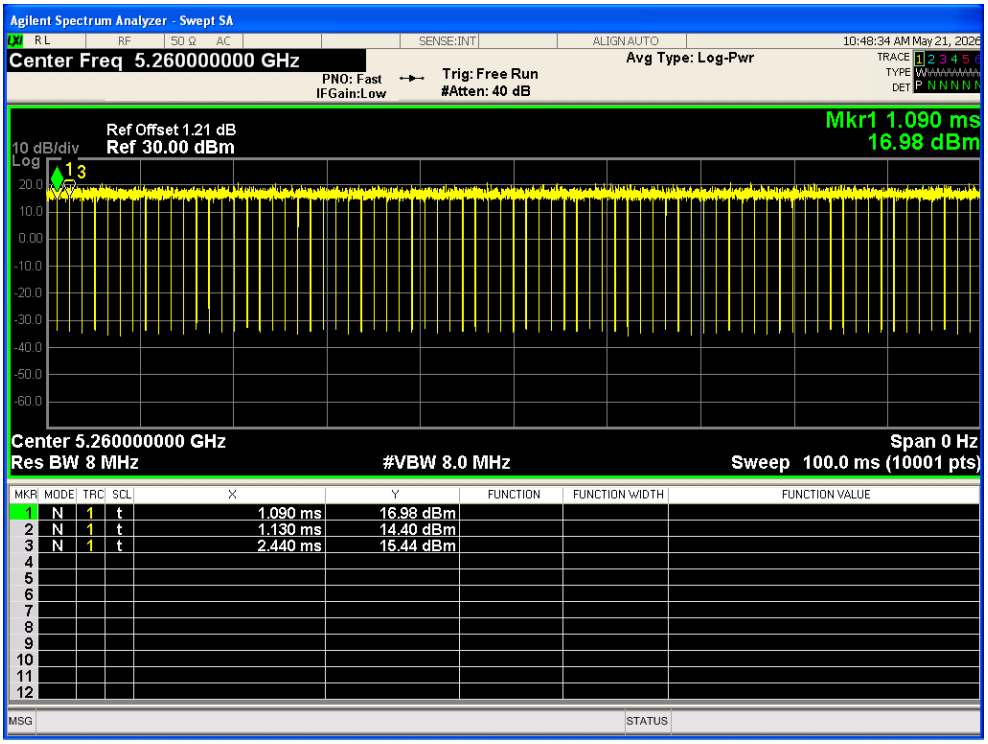
Duty Cycle NVNT a 5280MHz Ant1



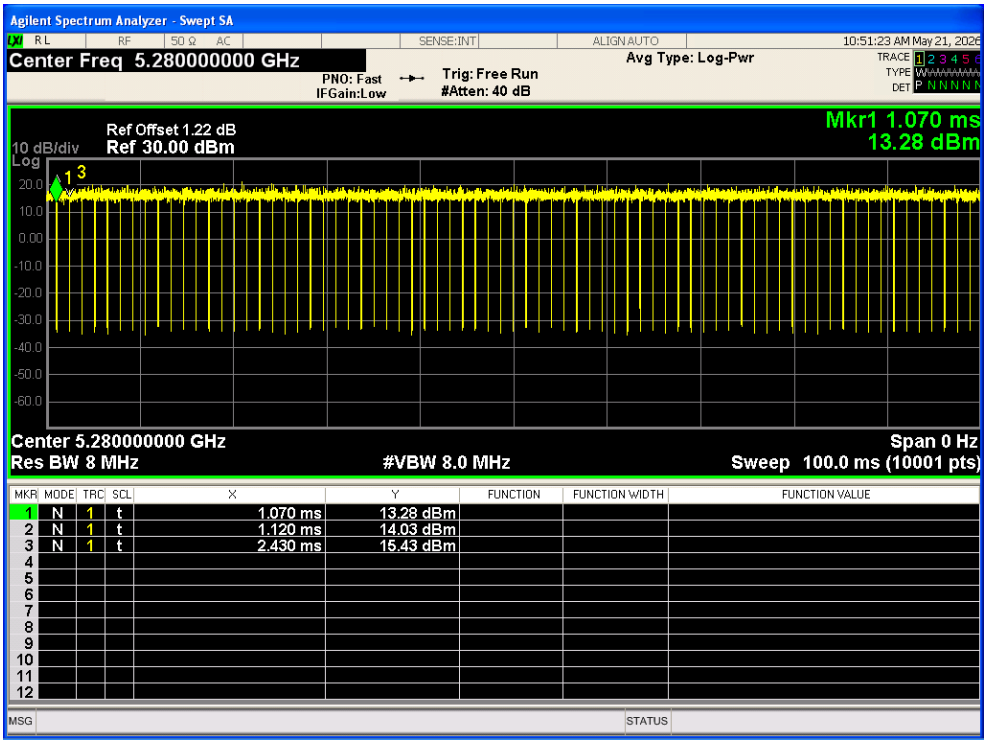
Duty Cycle NVNT a 5320MHz Ant1



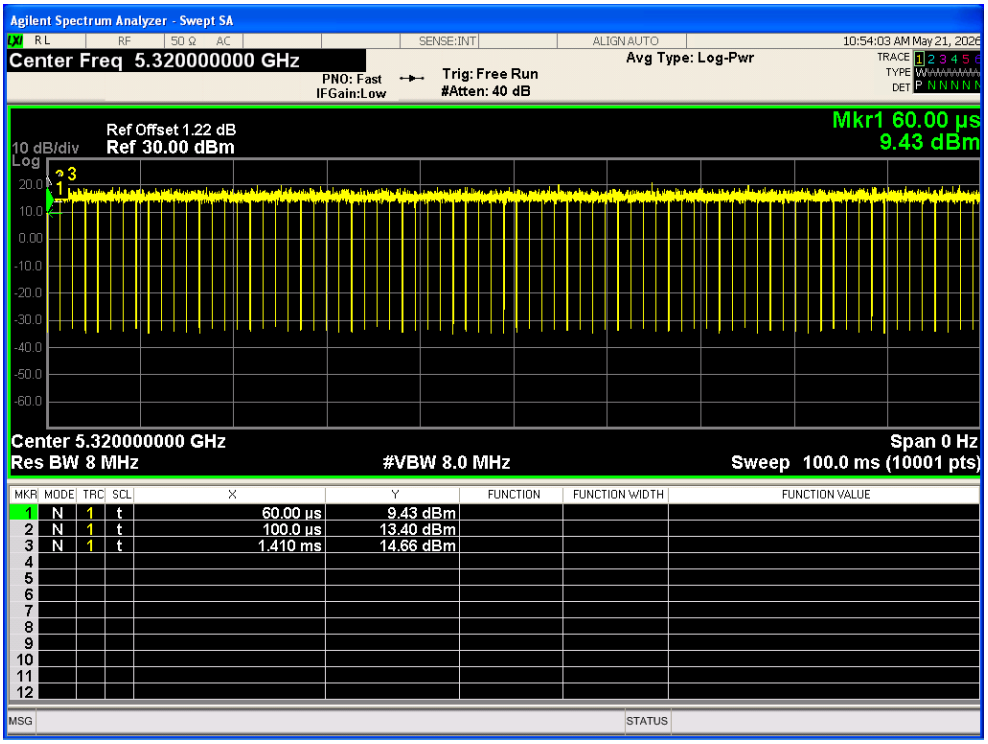
Duty Cycle NVNT ac20 5260MHz Ant1



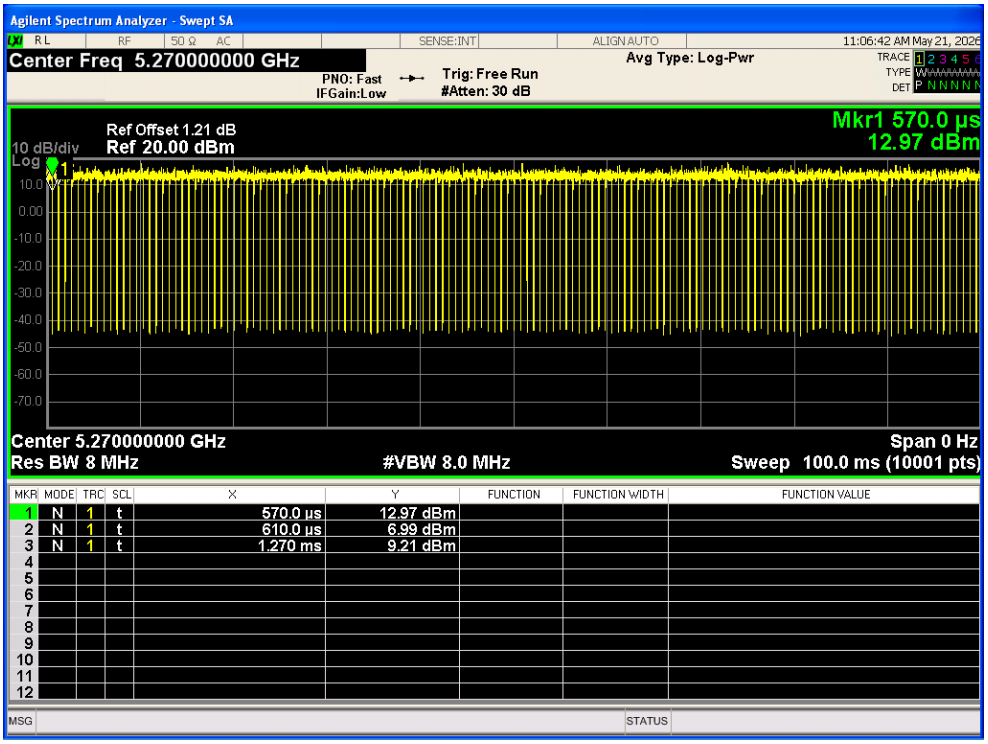
Duty Cycle NVNT ac20 5280MHz Ant1



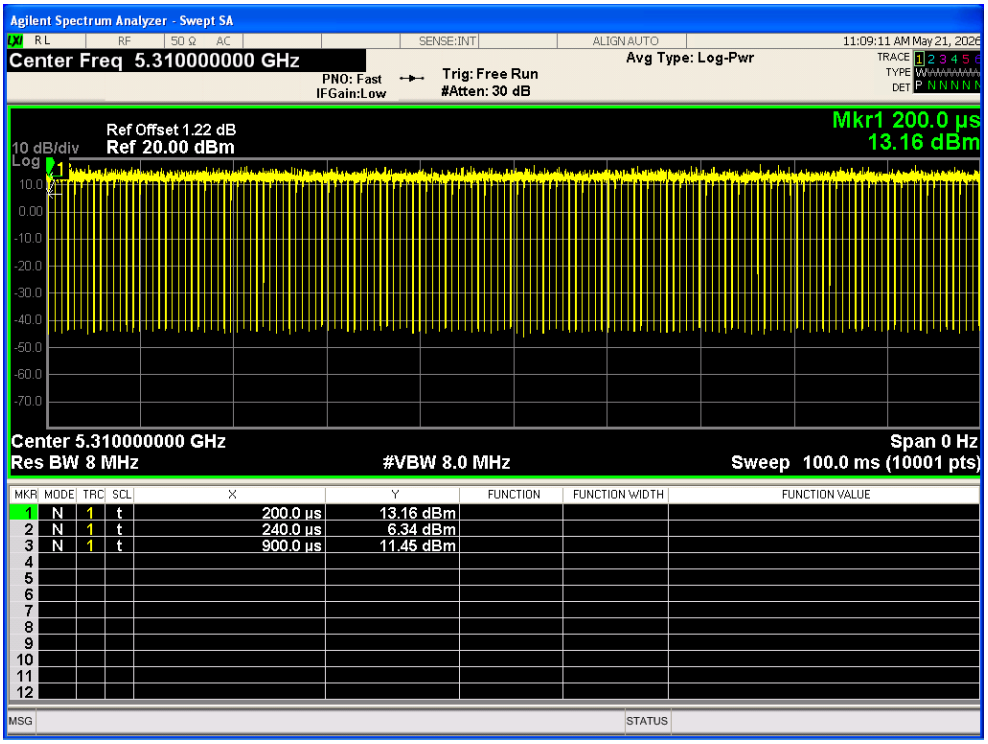
Duty Cycle NVNT ac20 5320MHz Ant1



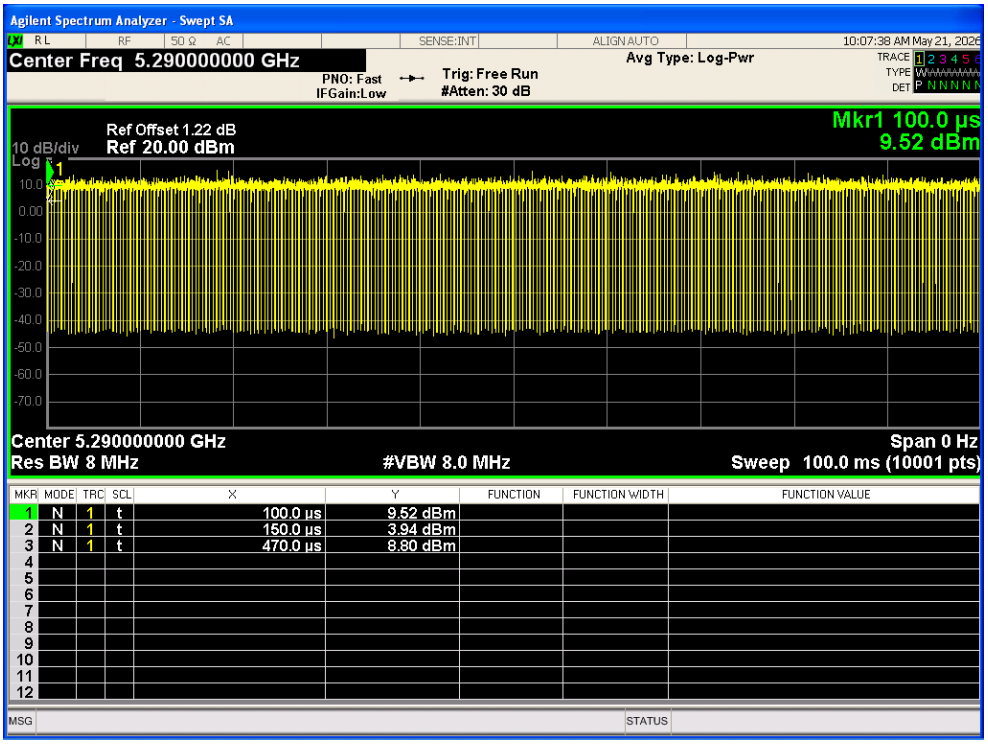
Duty Cycle NVNT ac40 5270MHz Ant1



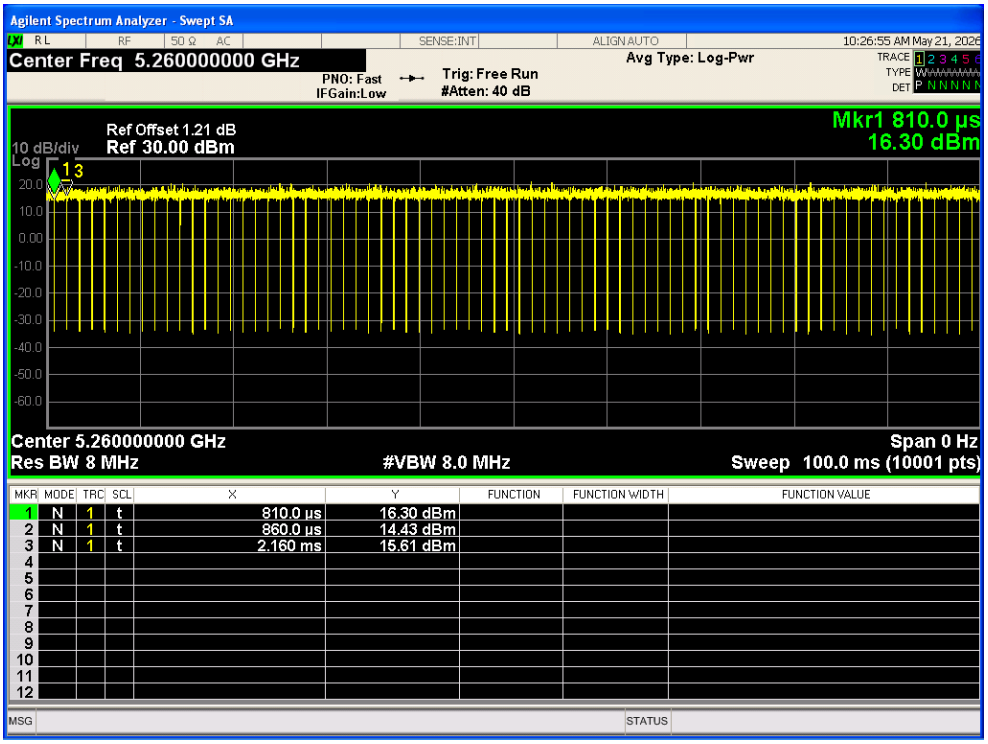
Duty Cycle NVNT ac40 5310MHz Ant1



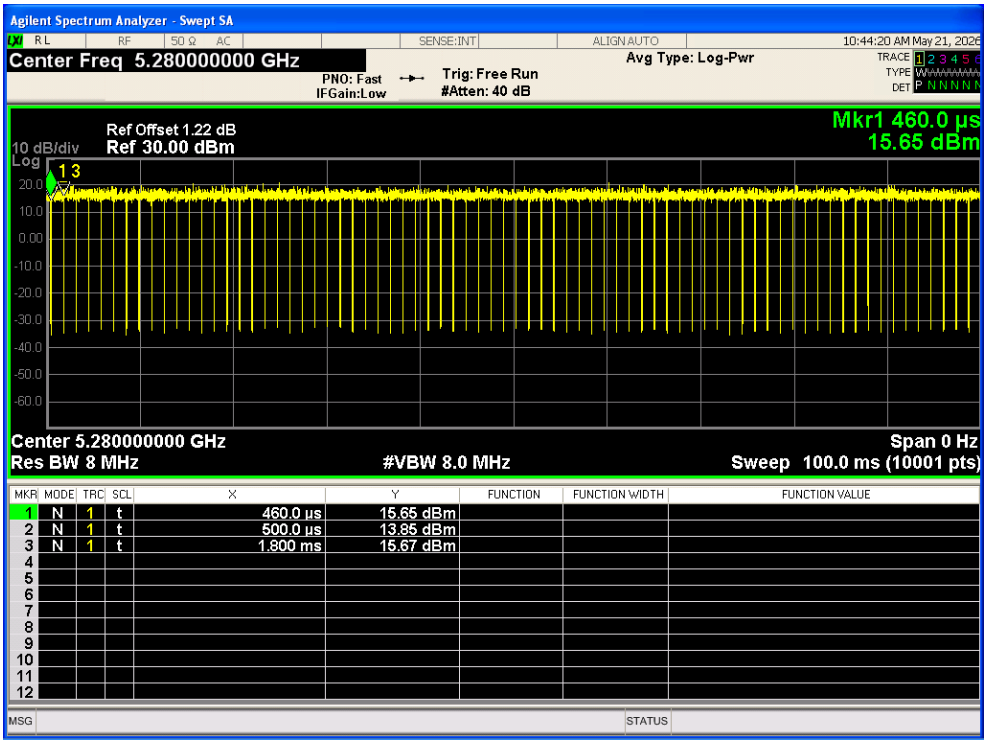
Duty Cycle NVNT ac80 5290MHz Ant1



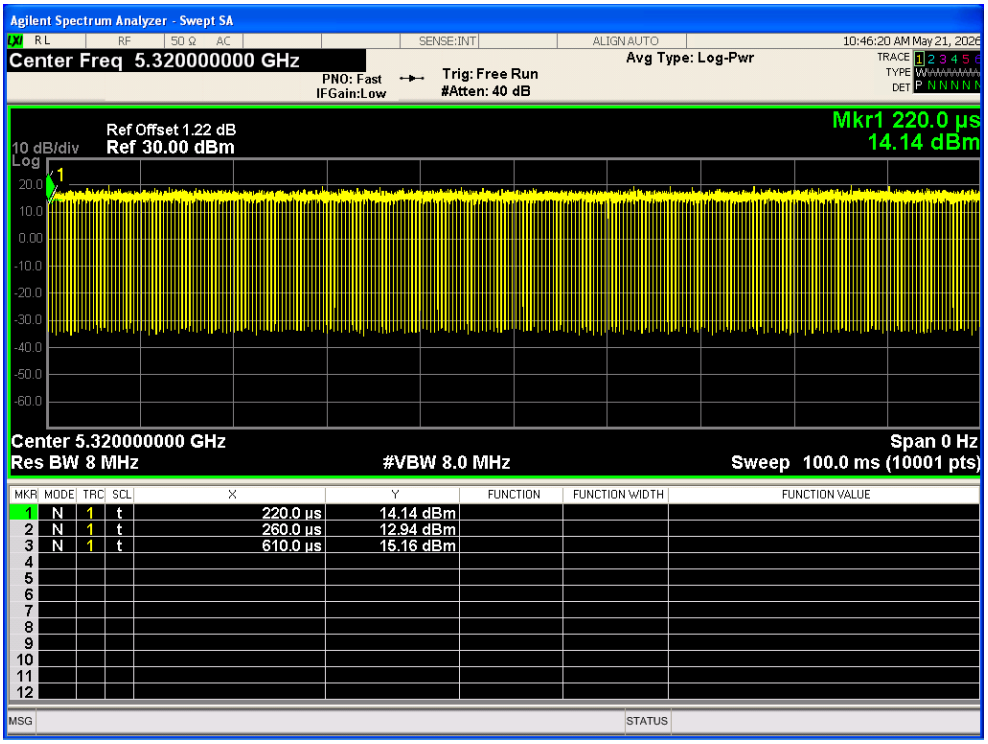
Duty Cycle NVNT n20 5260MHz Ant1



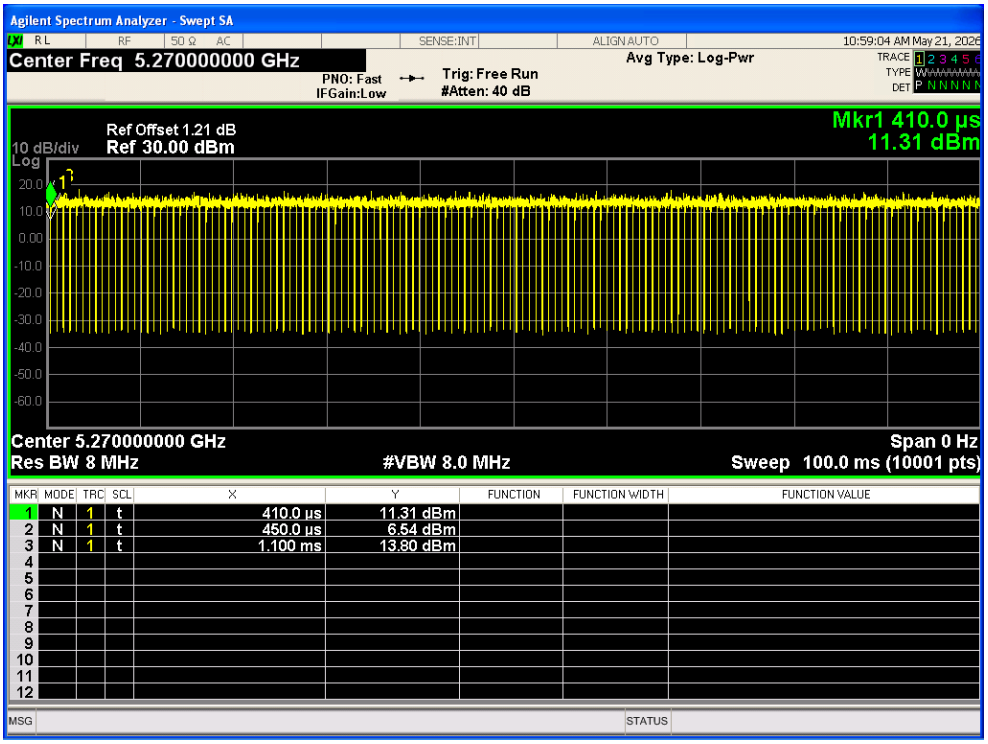
Duty Cycle NVNT n20 5280MHz Ant1



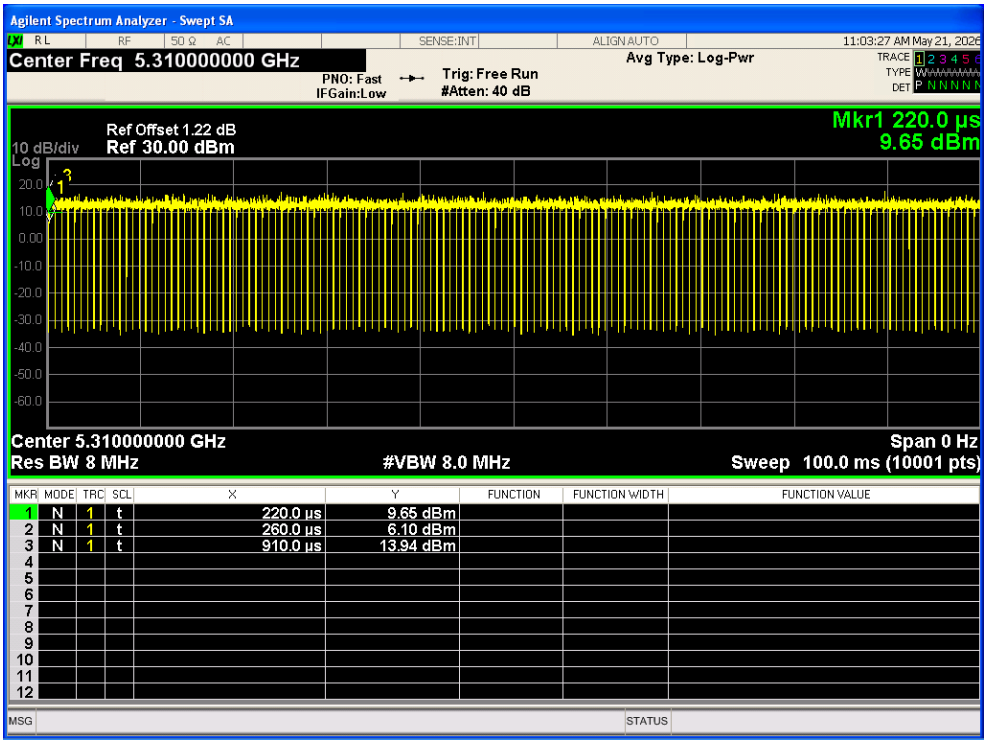
Duty Cycle NVNT n20 5320MHz Ant1



Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	11.984	24	Pass
NVNT	a	5280	Ant1	11.522	24	Pass
NVNT	a	5320	Ant1	10.766	24	Pass
NVNT	ac20	5260	Ant1	12.01	24	Pass
NVNT	ac20	5280	Ant1	11.495	24	Pass
NVNT	ac20	5320	Ant1	11.03	24	Pass
NVNT	ac40	5270	Ant1	11.479	24	Pass
NVNT	ac40	5310	Ant1	10.993	24	Pass
NVNT	ac80	5290	Ant1	11.026	24	Pass
NVNT	n20	5260	Ant1	11.538	24	Pass
NVNT	n20	5280	Ant1	11.447	24	Pass
NVNT	n20	5320	Ant1	10.493	24	Pass
NVNT	n40	5270	Ant1	11.455	24	Pass
NVNT	n40	5310	Ant1	11.103	24	Pass

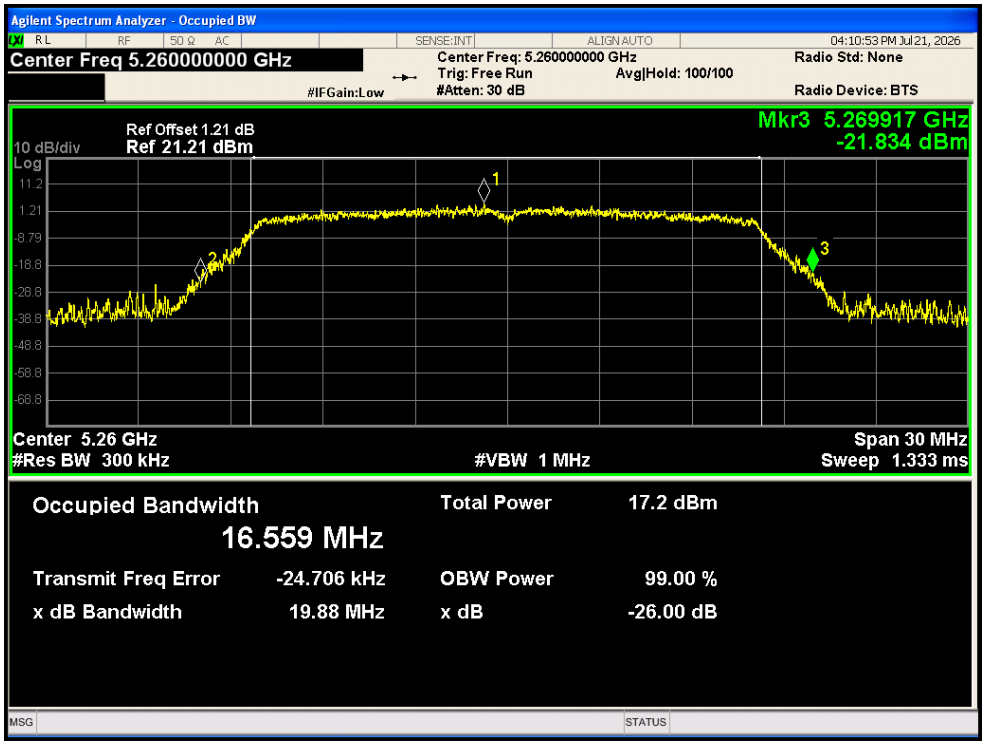
Note: The average power value already includes the duty cycle factor.

-26dB Bandwidth

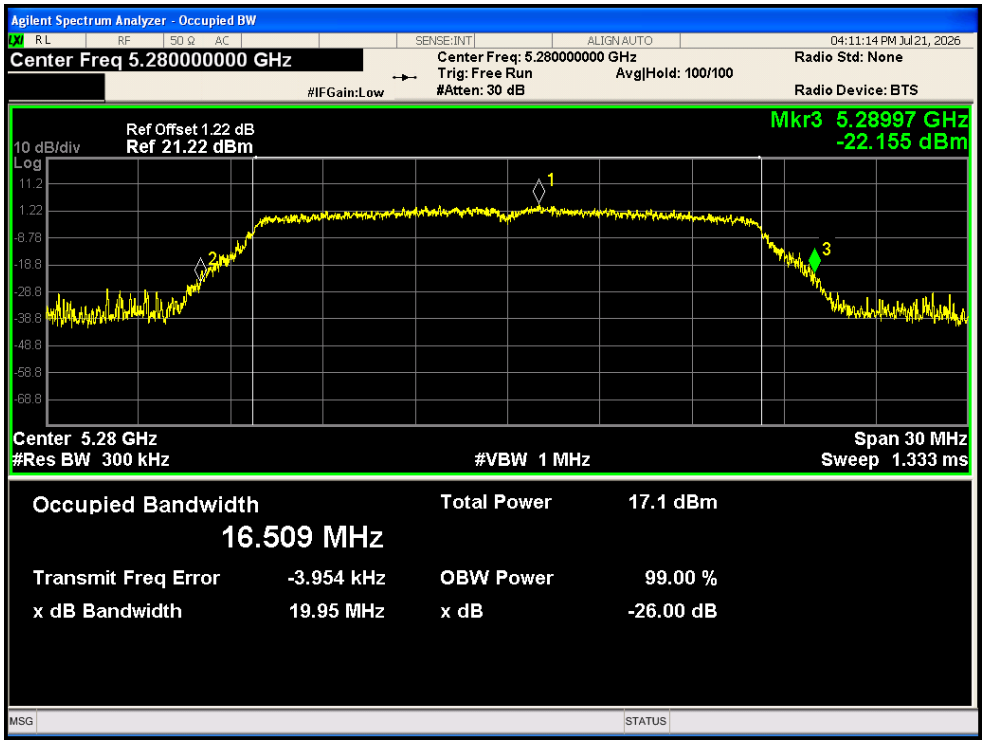
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	19.883	Pass
NVNT	a	5280	Ant1	19.948	Pass
NVNT	a	5320	Ant1	20.111	Pass
NVNT	ac20	5260	Ant1	20.32	Pass
NVNT	ac20	5280	Ant1	20.162	Pass
NVNT	ac20	5320	Ant1	20.23	Pass
NVNT	ac40	5270	Ant1	40.583	Pass

NVNT	ac40	5310	Ant1	40.716	Pass
NVNT	ac80	5290	Ant1	80.835	Pass
NVNT	n20	5260	Ant1	20.42	Pass
NVNT	n20	5280	Ant1	20.425	Pass
NVNT	n20	5320	Ant1	20.72	Pass
NVNT	n40	5270	Ant1	40.296	Pass
NVNT	n40	5310	Ant1	40.669	Pass

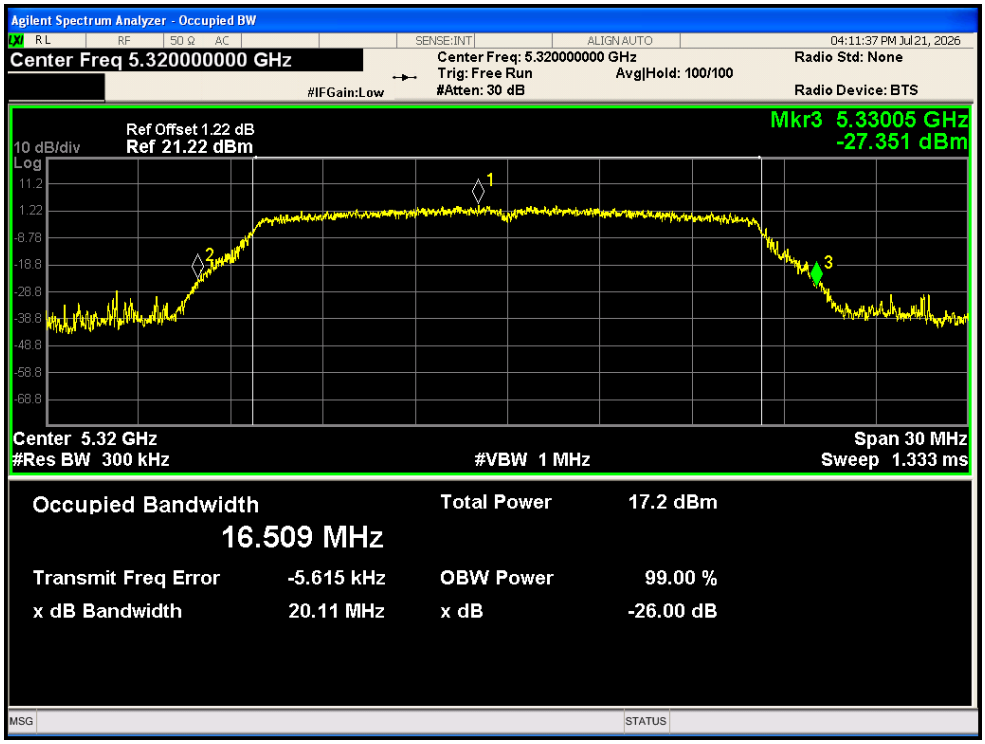
-26dB Bandwidth NVNT a 5260MHz Ant1



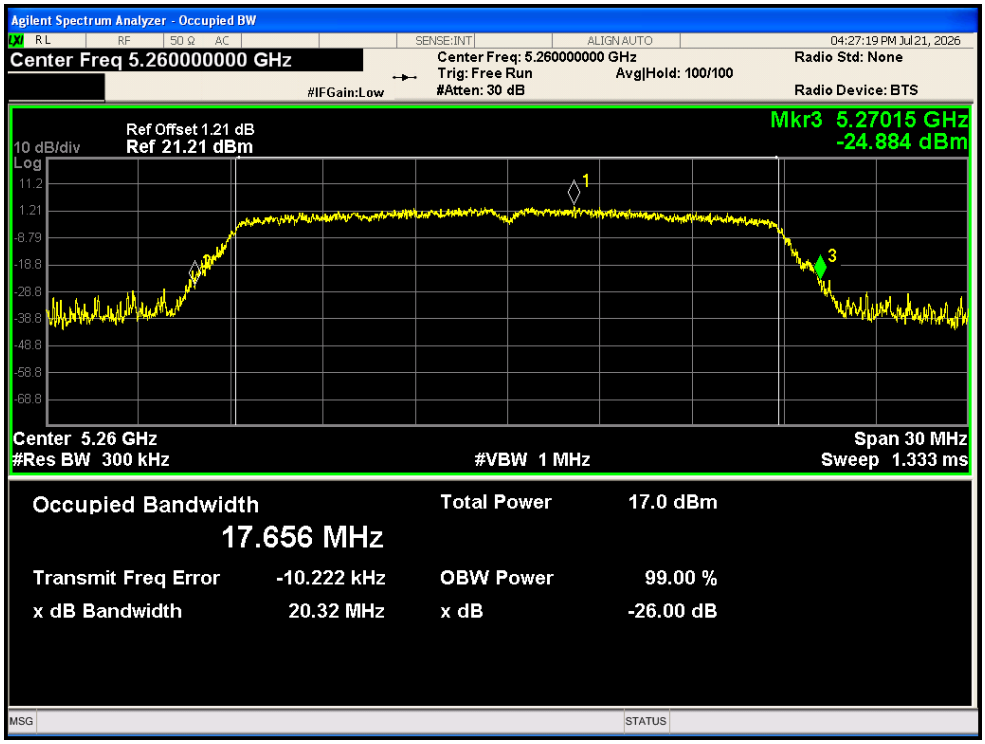
-26dB Bandwidth NVNT a 5280MHz Ant1



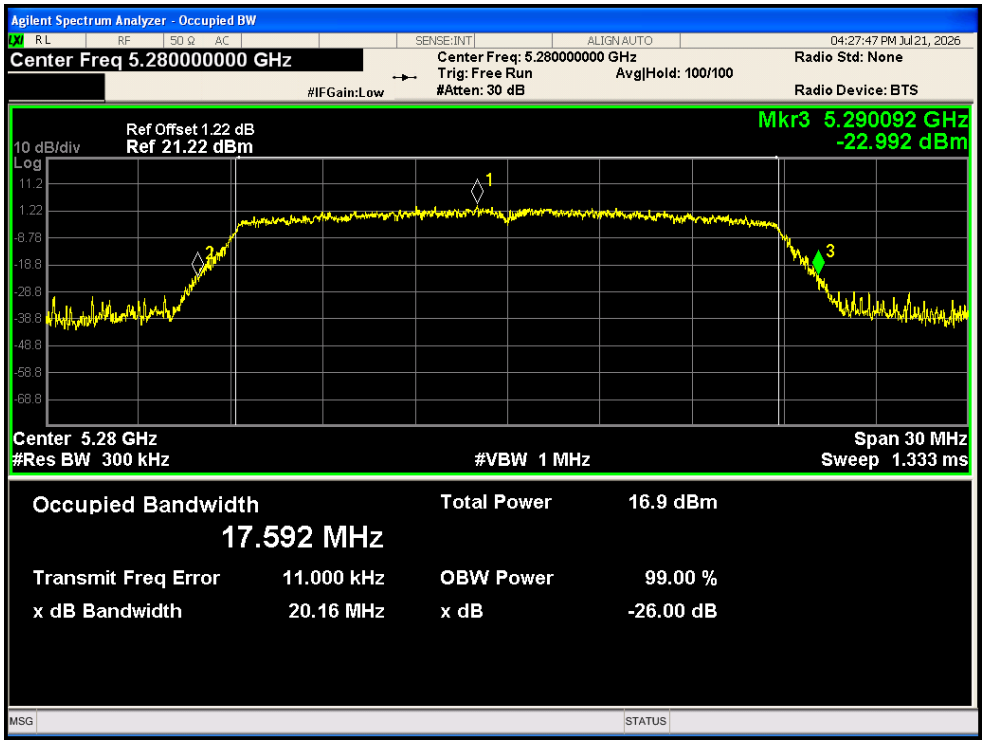
-26dB Bandwidth NVNT a 5320MHz Ant1



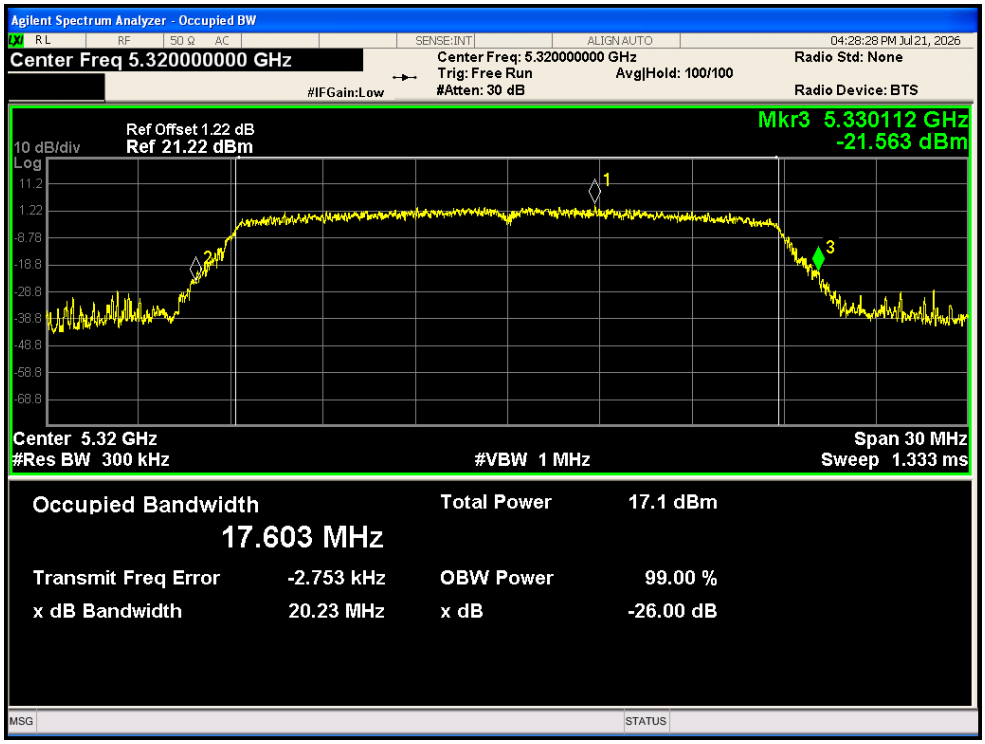
-26dB Bandwidth NVNT ac20 5260MHz Ant1



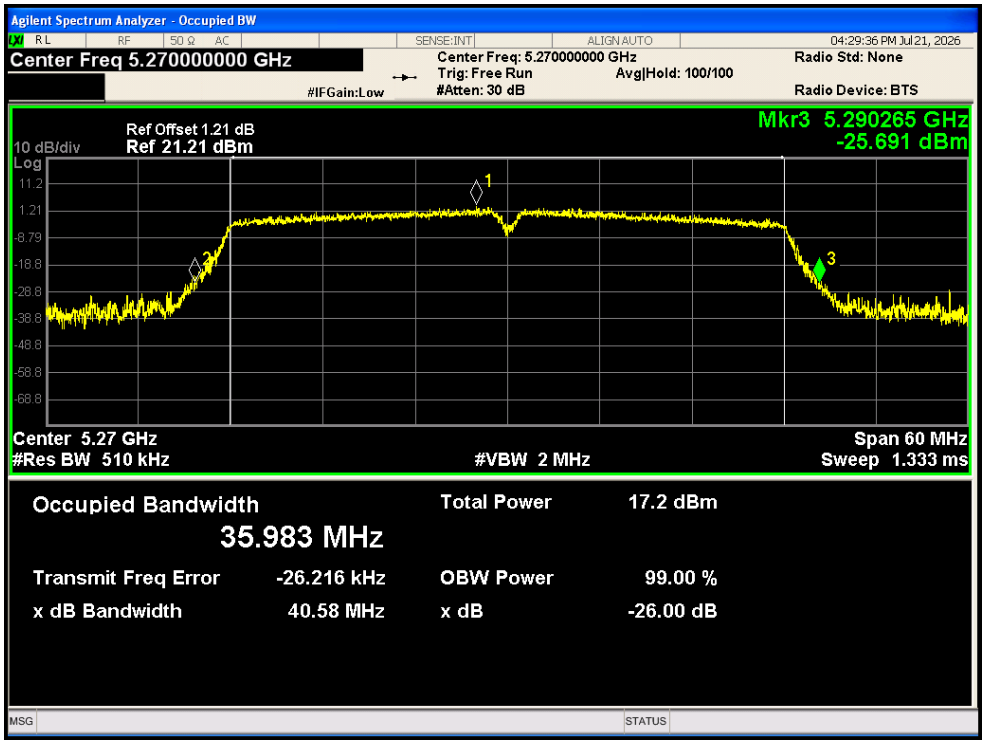
-26dB Bandwidth NVNT ac20 5280MHz Ant1



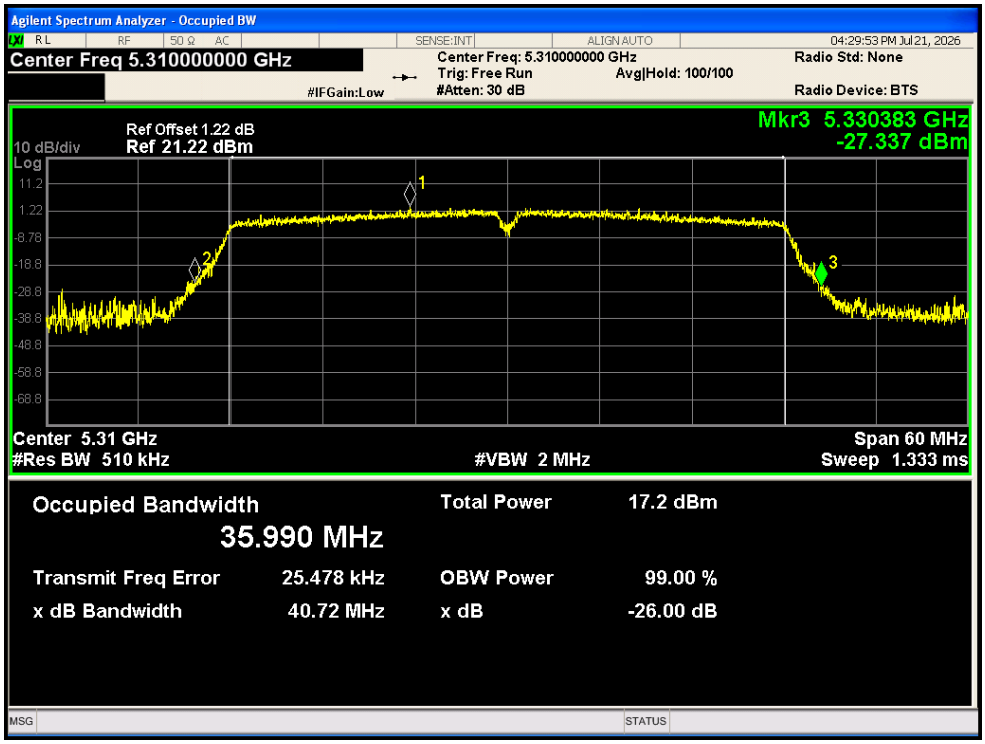
-26dB Bandwidth NVNT ac20 5320MHz Ant1



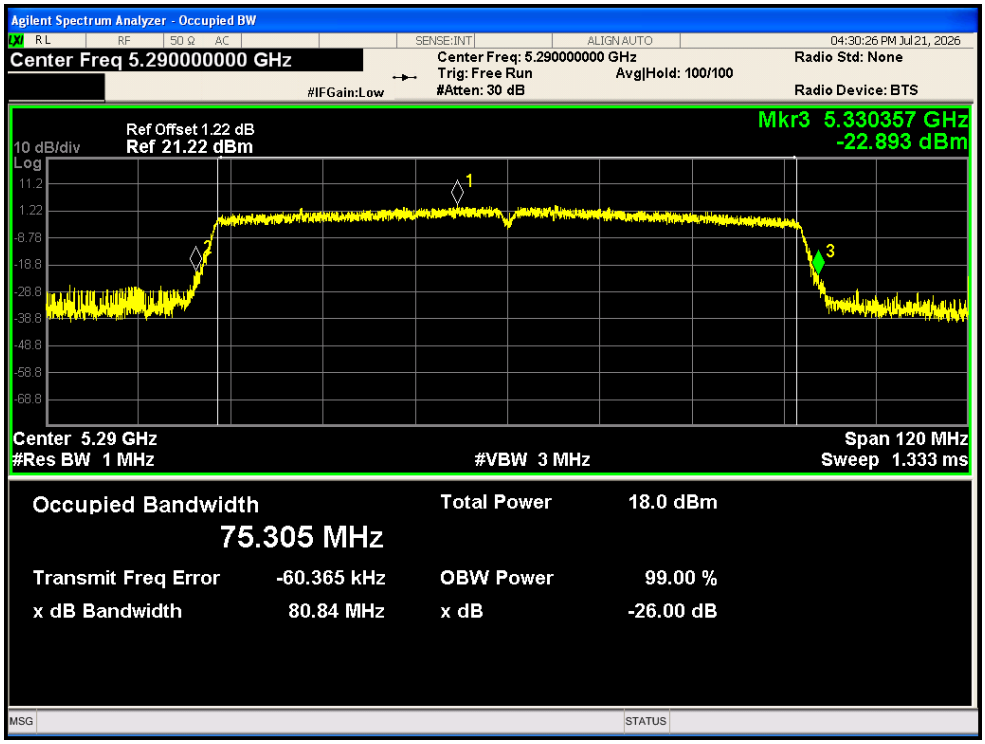
-26dB Bandwidth NVNT ac40 5270MHz Ant1



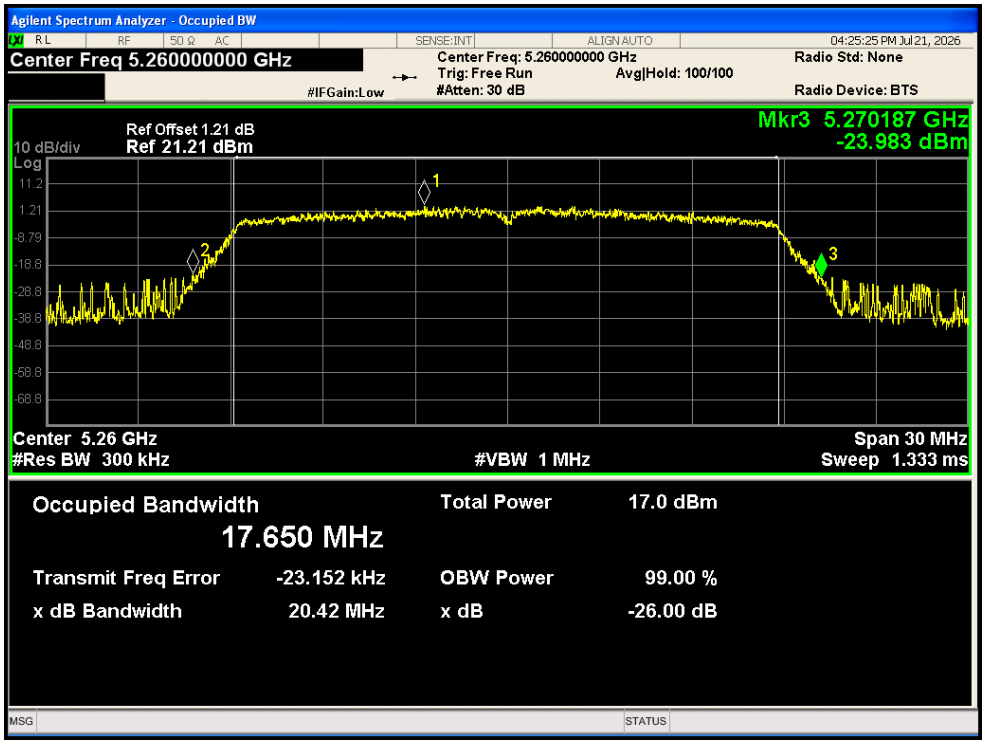
-26dB Bandwidth NVNT ac40 5310MHz Ant1



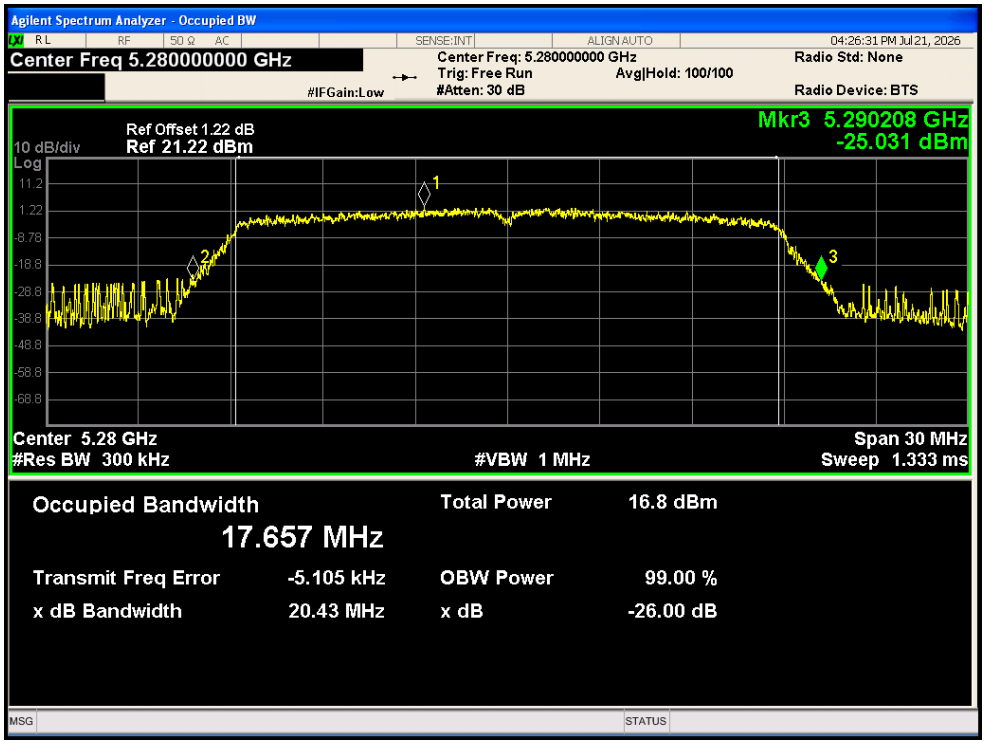
-26dB Bandwidth NVNT ac80 5290MHz Ant1



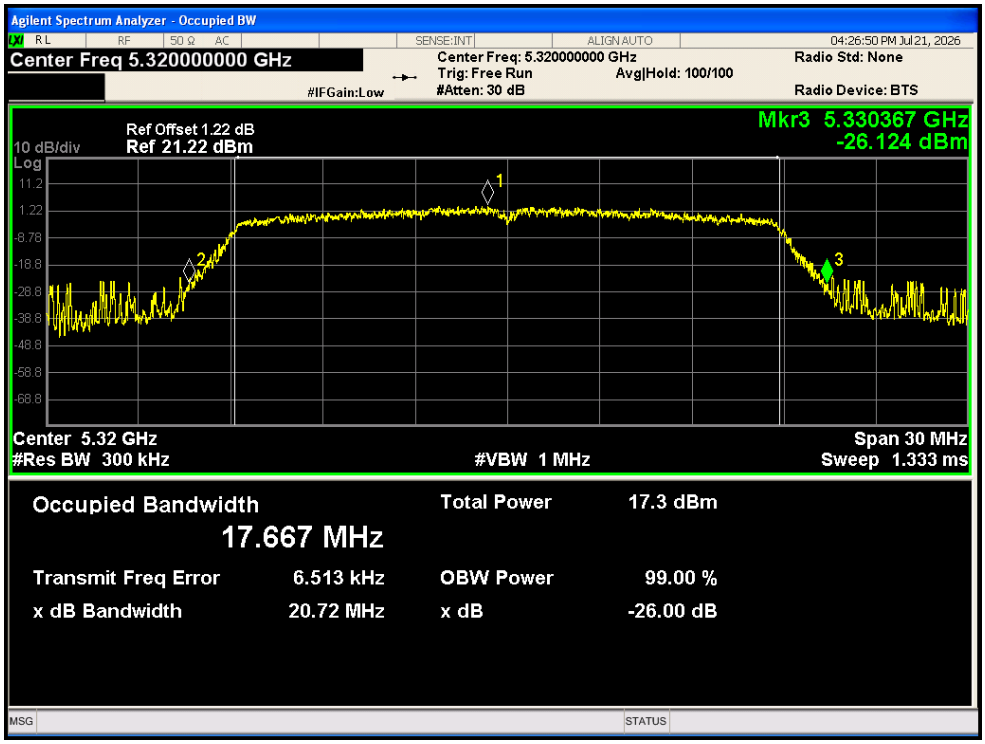
-26dB Bandwidth NVNT n20 5260MHz Ant1



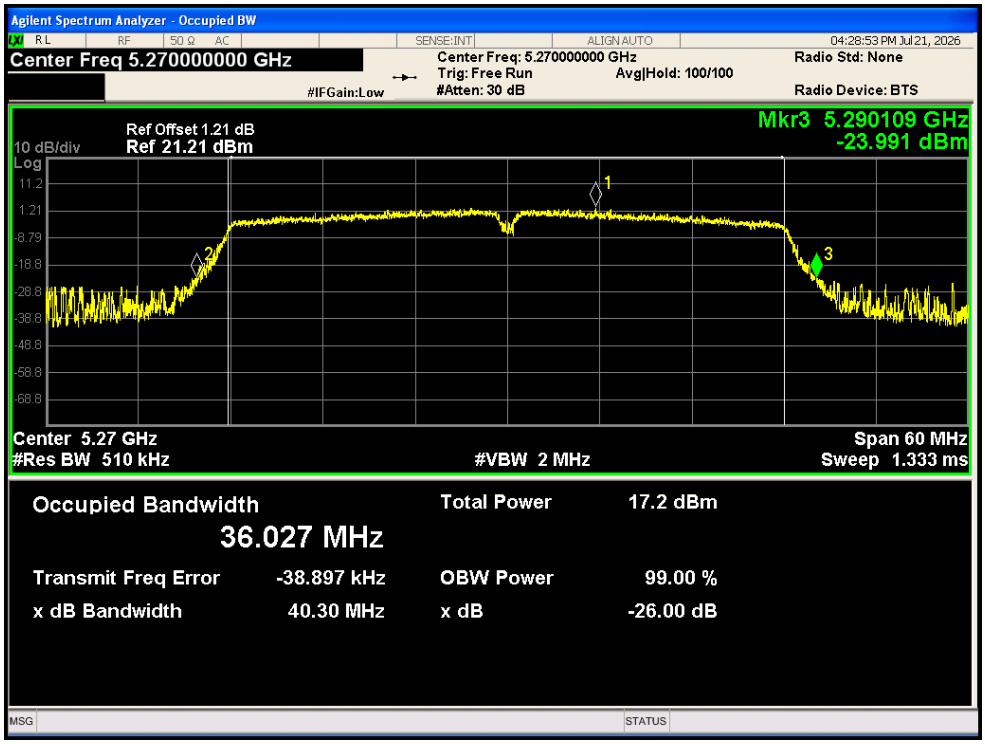
-26dB Bandwidth NVNT n20 5280MHz Ant1



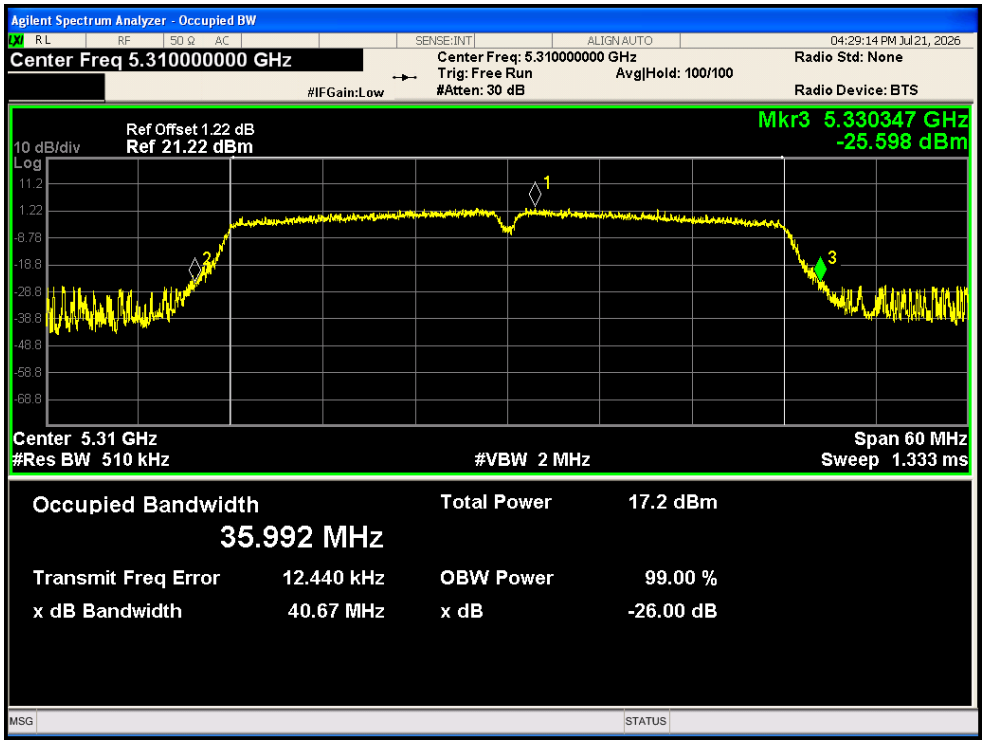
-26dB Bandwidth NVNT n20 5320MHz Ant1



-26dB Bandwidth NVNT n40 5270MHz Ant1



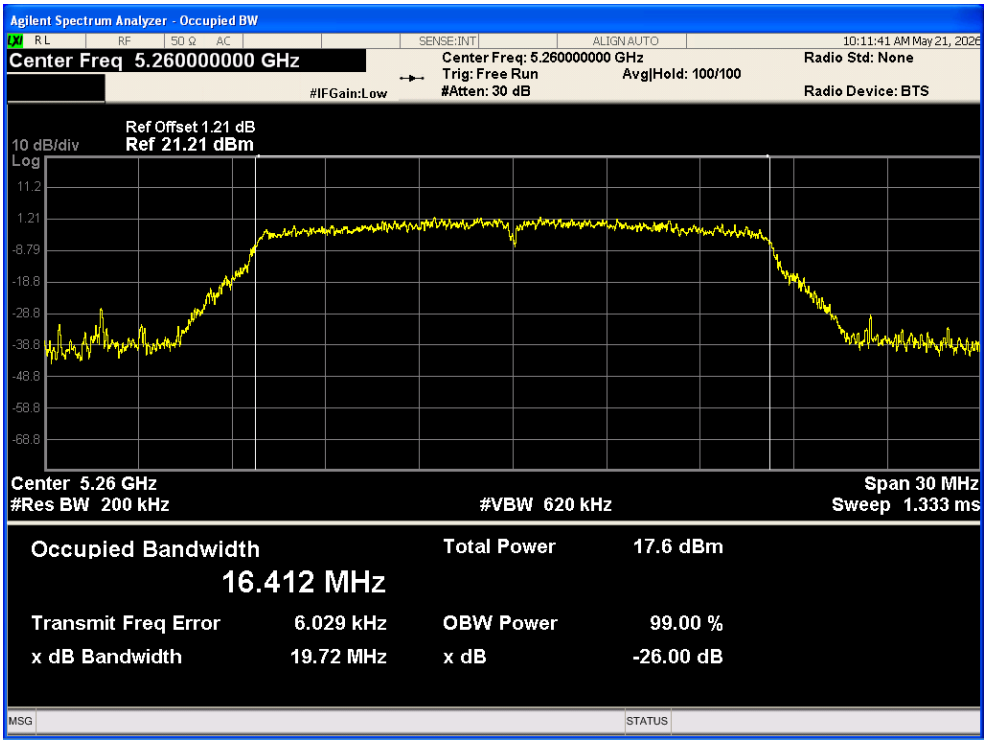
-26dB Bandwidth NVNT n40 5310MHz Ant1



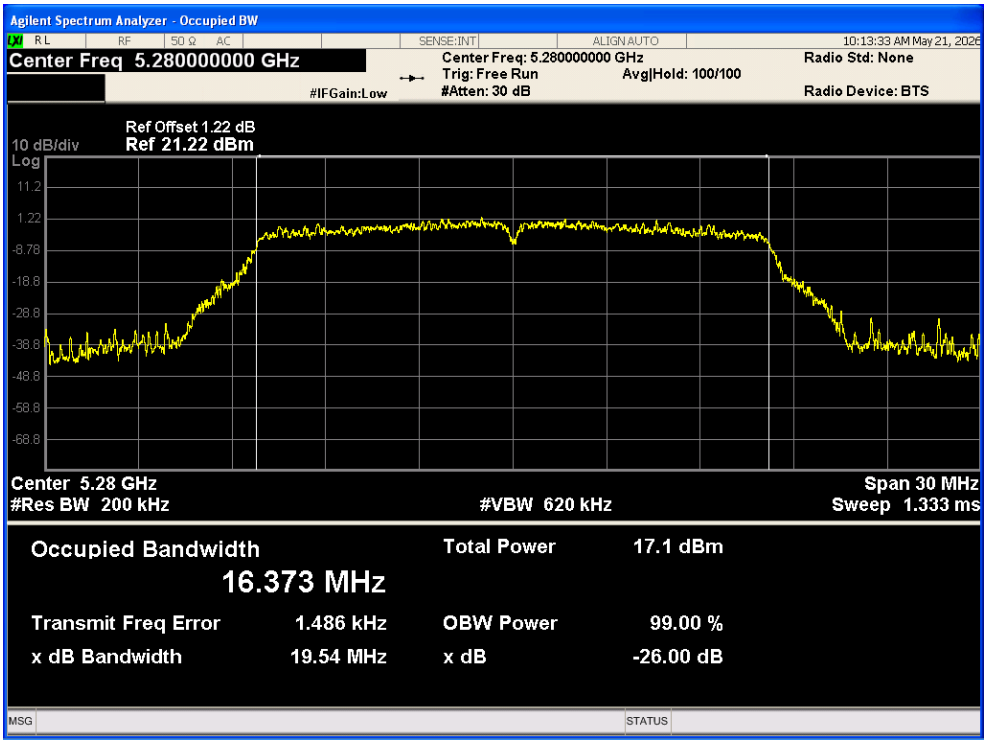
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.412
NVNT	a	5280	Ant1	16.373
NVNT	a	5320	Ant1	16.377
NVNT	ac20	5260	Ant1	17.541
NVNT	ac20	5280	Ant1	17.545
NVNT	ac20	5320	Ant1	17.555
NVNT	ac40	5270	Ant1	35.899
NVNT	ac40	5310	Ant1	35.939
NVNT	ac80	5290	Ant1	75.192
NVNT	n20	5260	Ant1	17.543
NVNT	n20	5280	Ant1	17.537
NVNT	n20	5320	Ant1	17.53
NVNT	n40	5270	Ant1	35.936
NVNT	n40	5310	Ant1	35.953

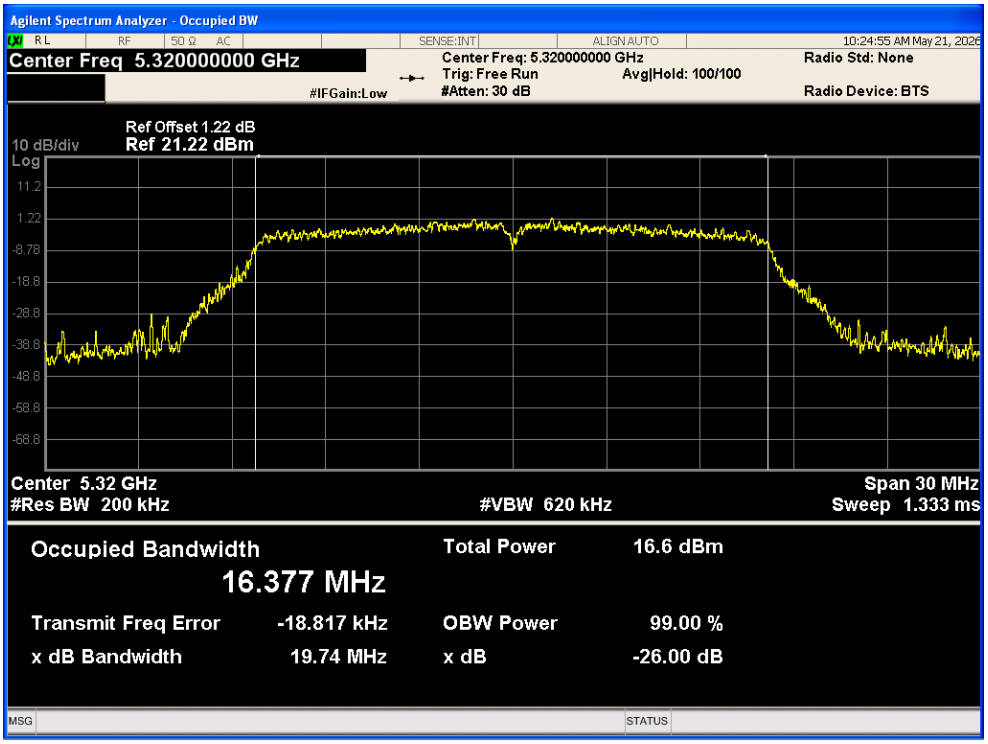
OBW NVNT a 5260MHz Ant1



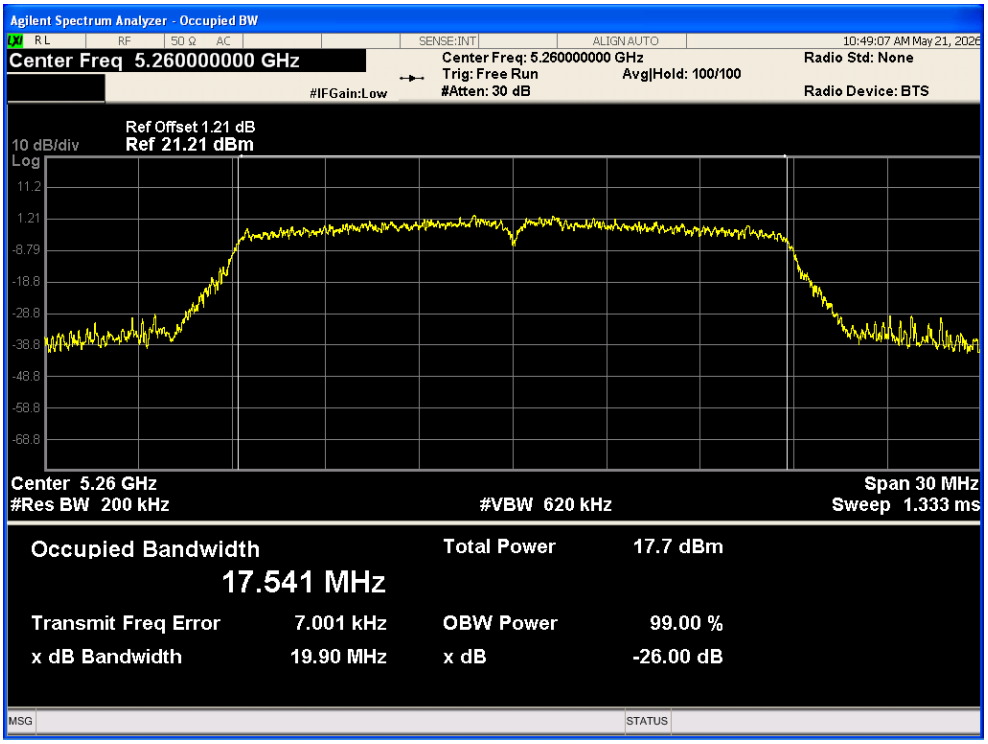
OBW NVNT a 5280MHz Ant1



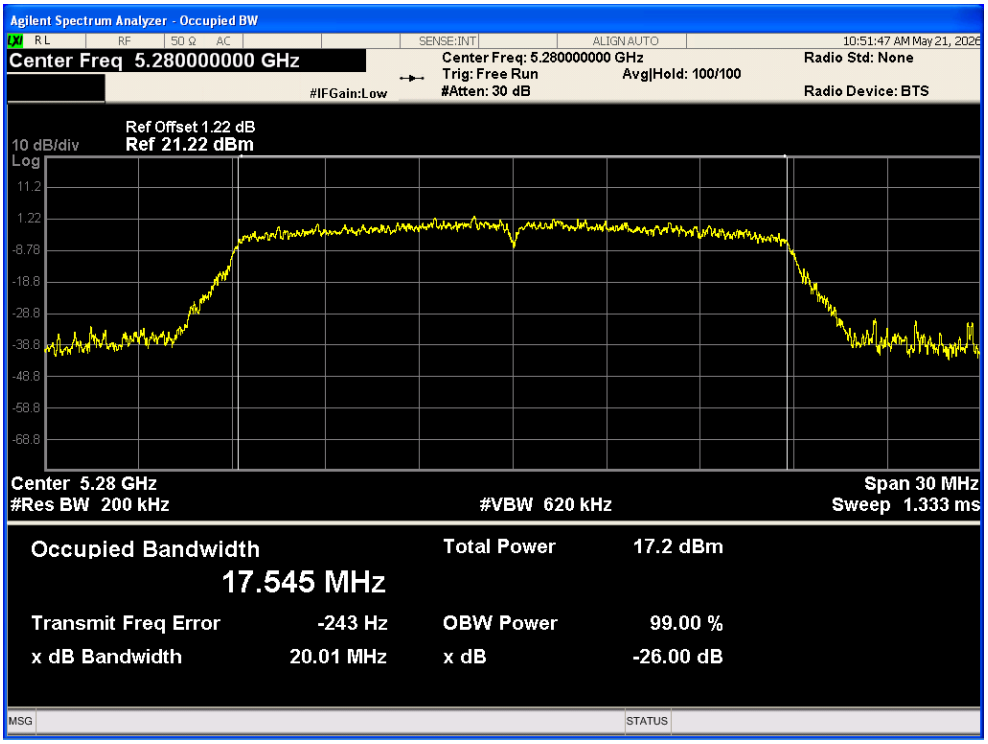
OBW NVNT a 5320MHz Ant1



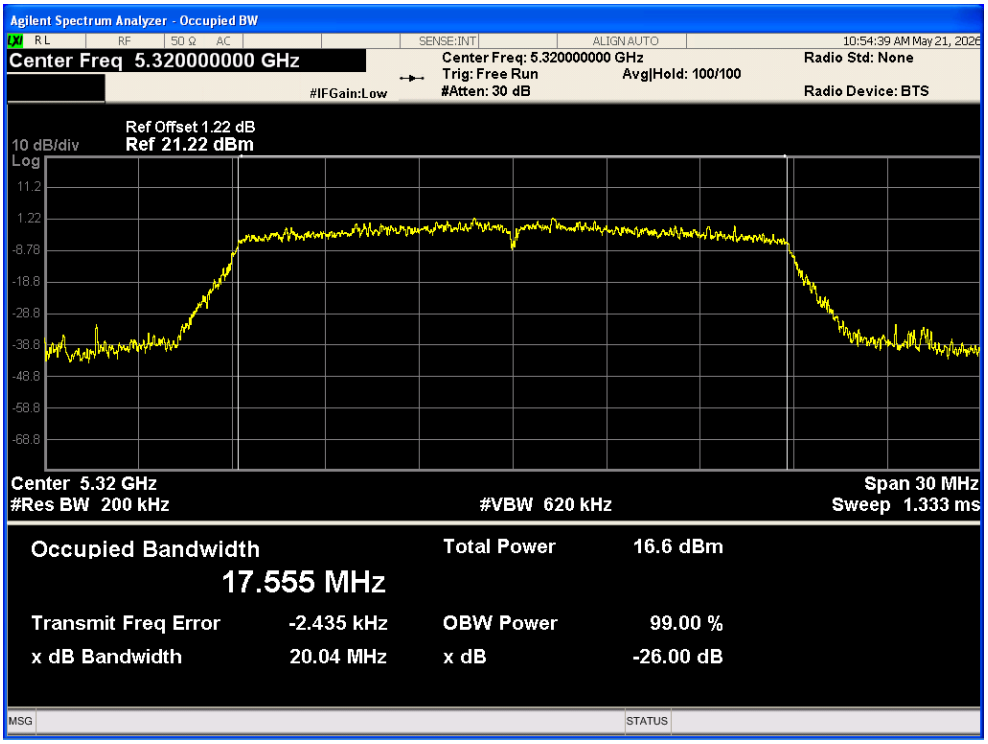
OBW NVNT ac20 5260MHz Ant1



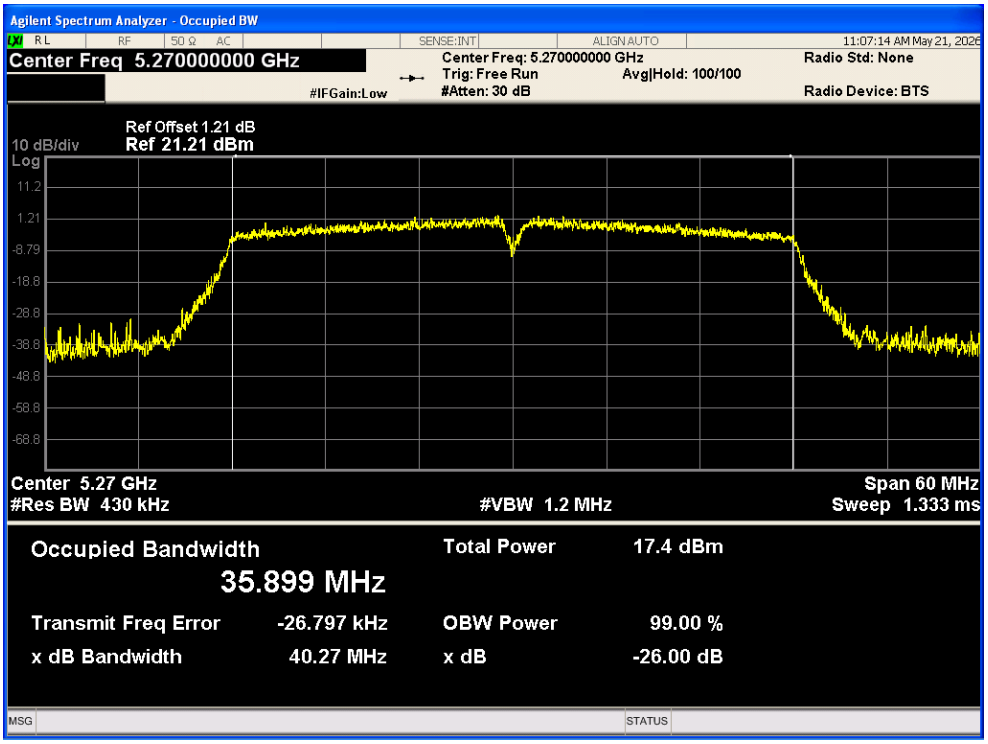
OBW NVNT ac20 5280MHz Ant1



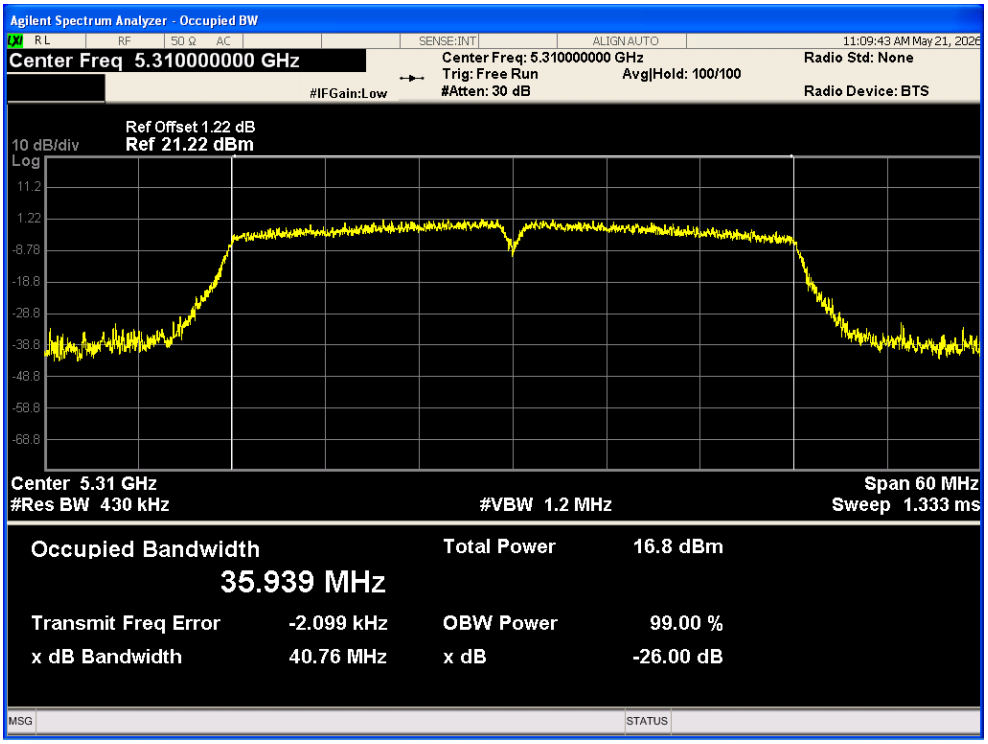
OBW NVNT ac20 5320MHz Ant1



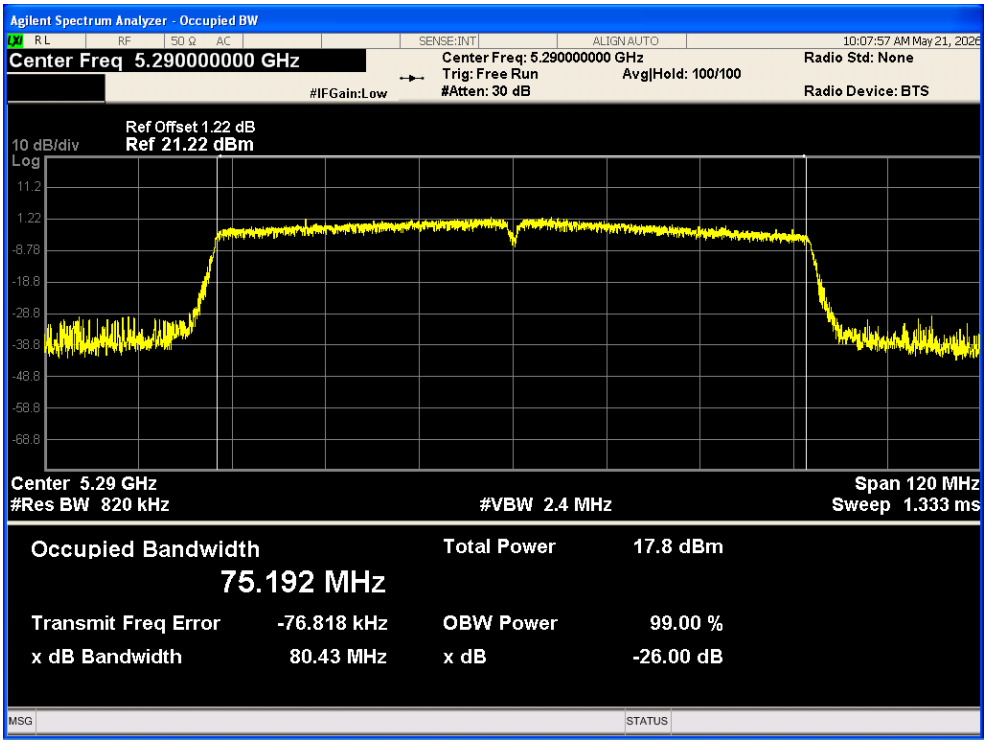
OBW NVNT ac40 5270MHz Ant1



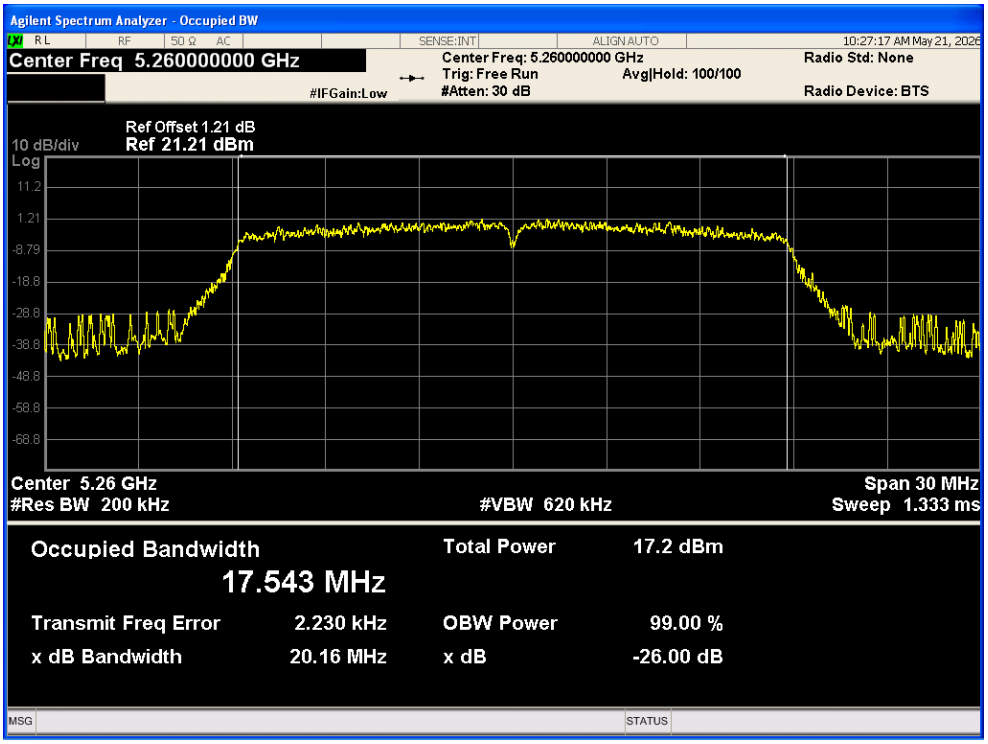
OBW NVNT ac40 5310MHz Ant1



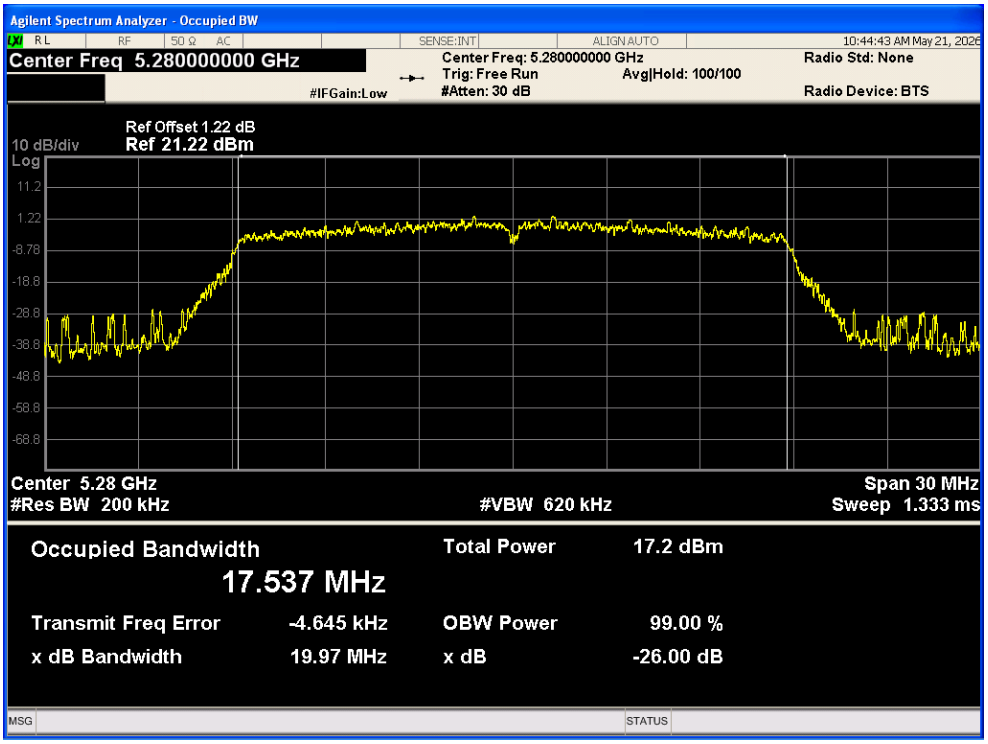
OBW NVNT ac80 5290MHz Ant1



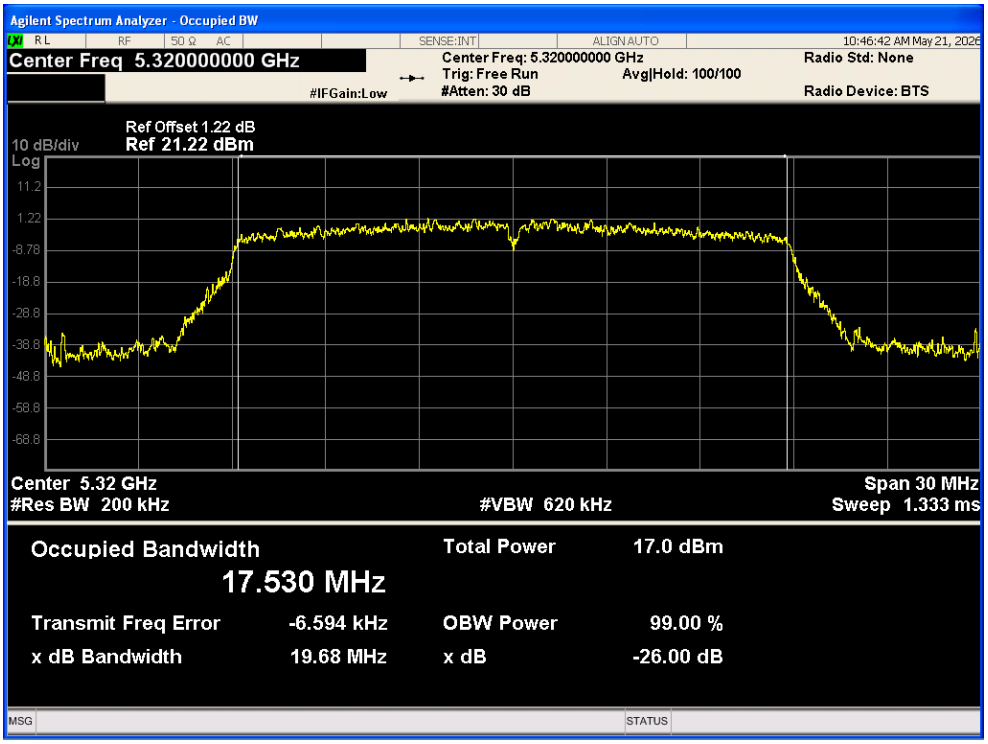
OBW NVNT n20 5260MHz Ant1



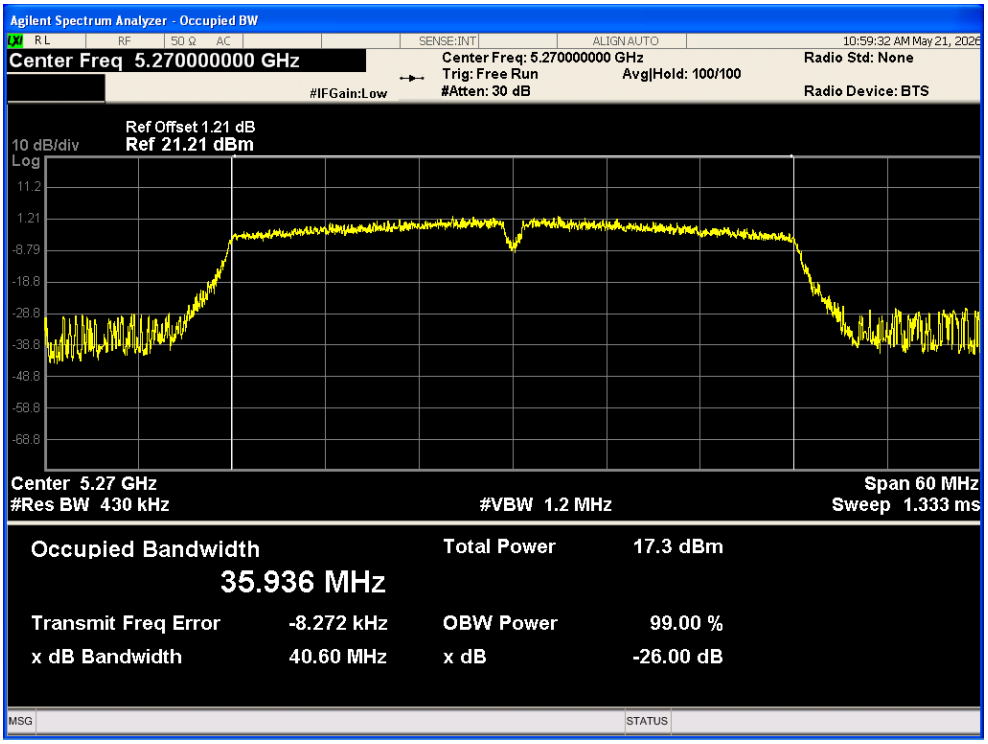
OBW NVNT n20 5280MHz Ant1



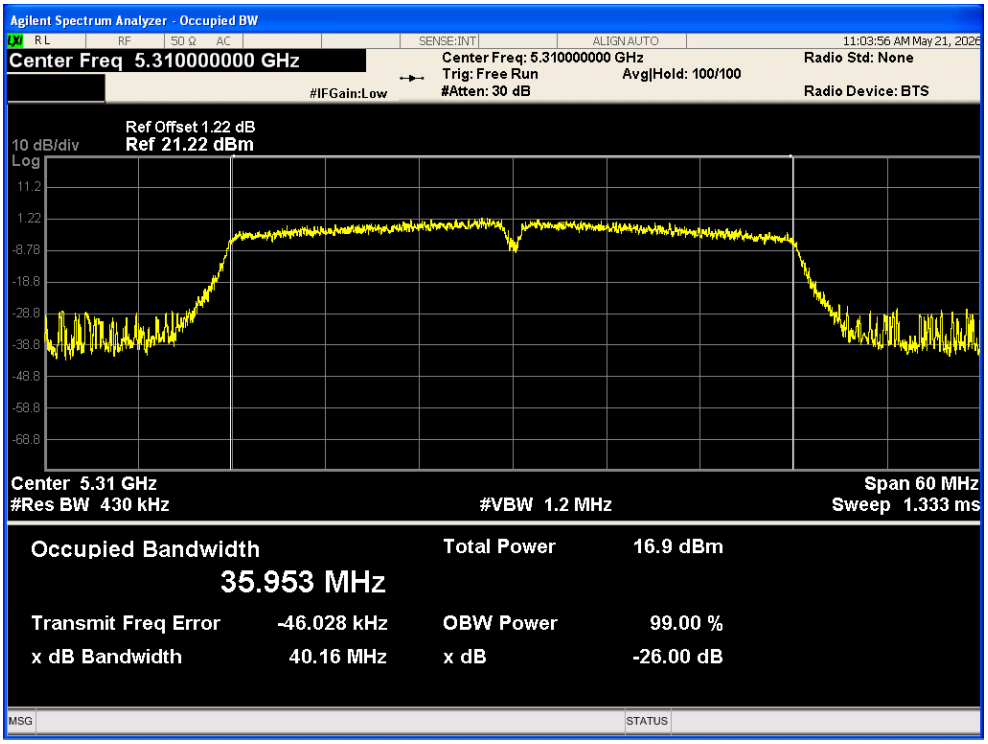
OBW NVNT n20 5320MHz Ant1



OBW NVNT n40 5270MHz Ant1



OBW NVNT n40 5310MHz Ant1

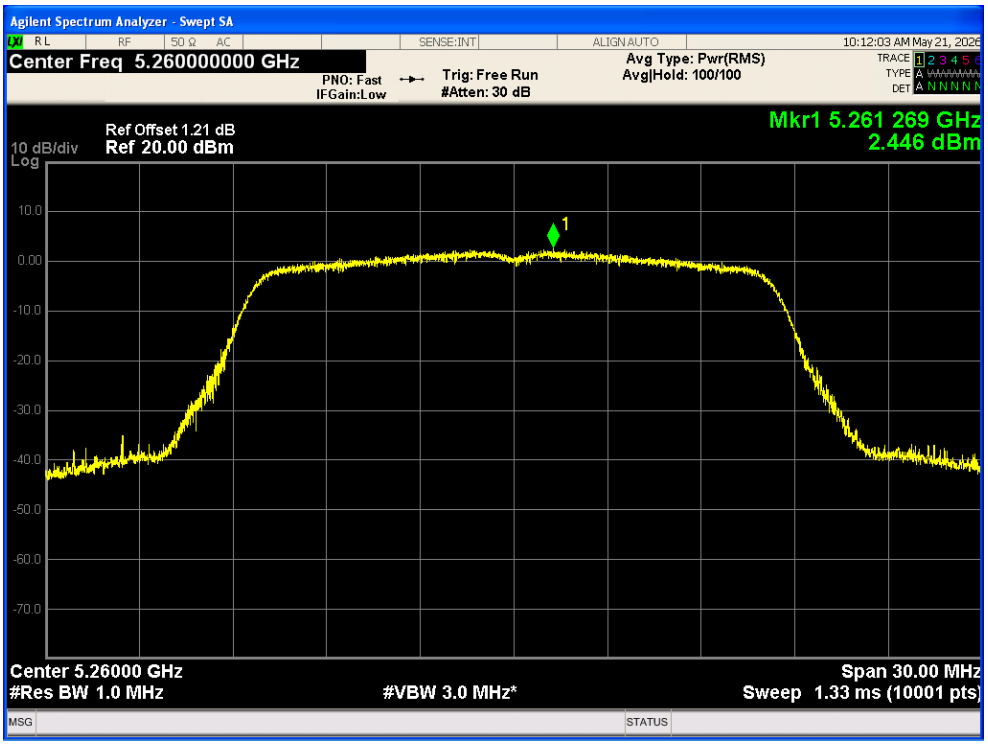


Maximum Power Spectral Density Level

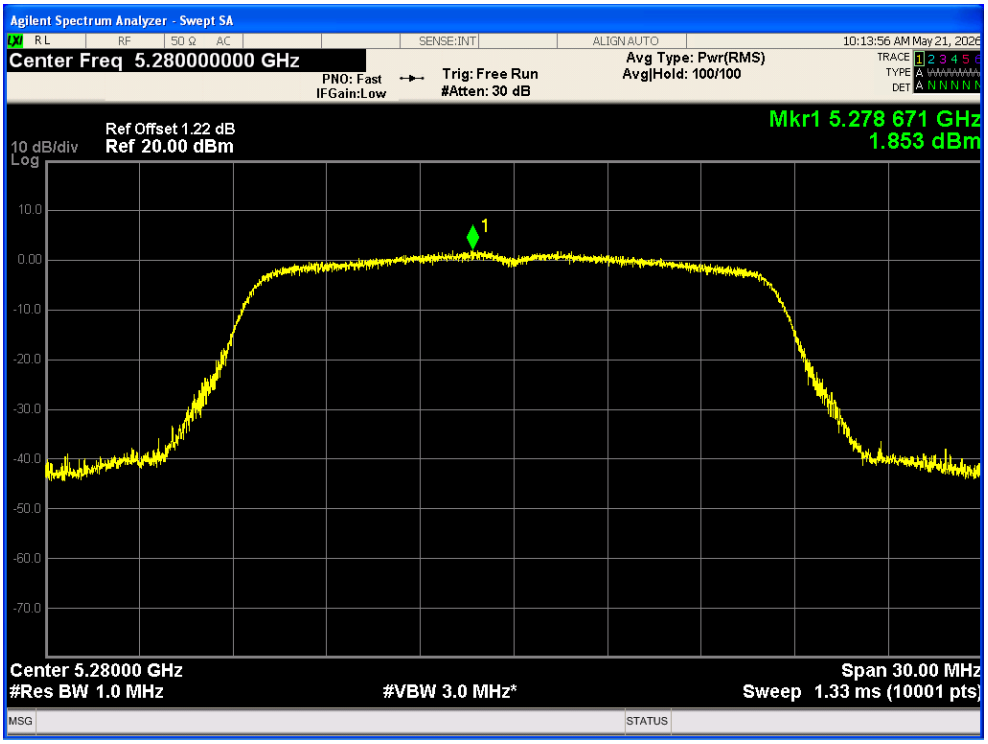
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	2.446	0.11	2.556	11	Pass
NVNT	a	5280	Ant1	1.853	0.11	1.963	11	Pass
NVNT	a	5320	Ant1	0.947	0.11	1.057	11	Pass
NVNT	ac20	5260	Ant1	2.095	0.11	2.205	11	Pass

NVNT	ac20	5280	Ant1	1.634	0.11	1.744	11	Pass
NVNT	ac20	5320	Ant1	1.38	0.11	1.49	11	Pass
NVNT	ac40	5270	Ant1	-1.174	0.22	-0.954	11	Pass
NVNT	ac40	5310	Ant1	-1.709	0.22	-1.489	11	Pass
NVNT	ac80	5290	Ant1	-4.764	0.42	-4.344	11	Pass
NVNT	n20	5260	Ant1	1.552	0.11	1.662	11	Pass
NVNT	n20	5280	Ant1	1.848	0.11	1.958	11	Pass
NVNT	n20	5320	Ant1	0.747	0.39	1.137	11	Pass
NVNT	n40	5270	Ant1	-1.078	0.22	-0.858	11	Pass
NVNT	n40	5310	Ant1	-1.594	0.22	-1.374	11	Pass

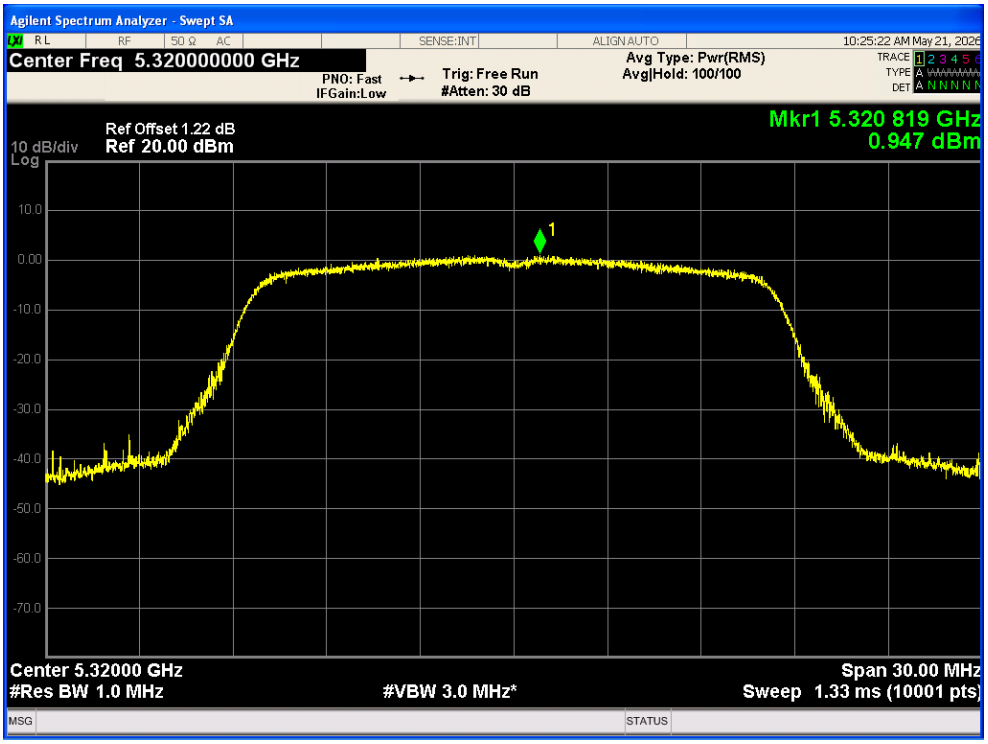
PSD NVNT a 5260MHz Ant1



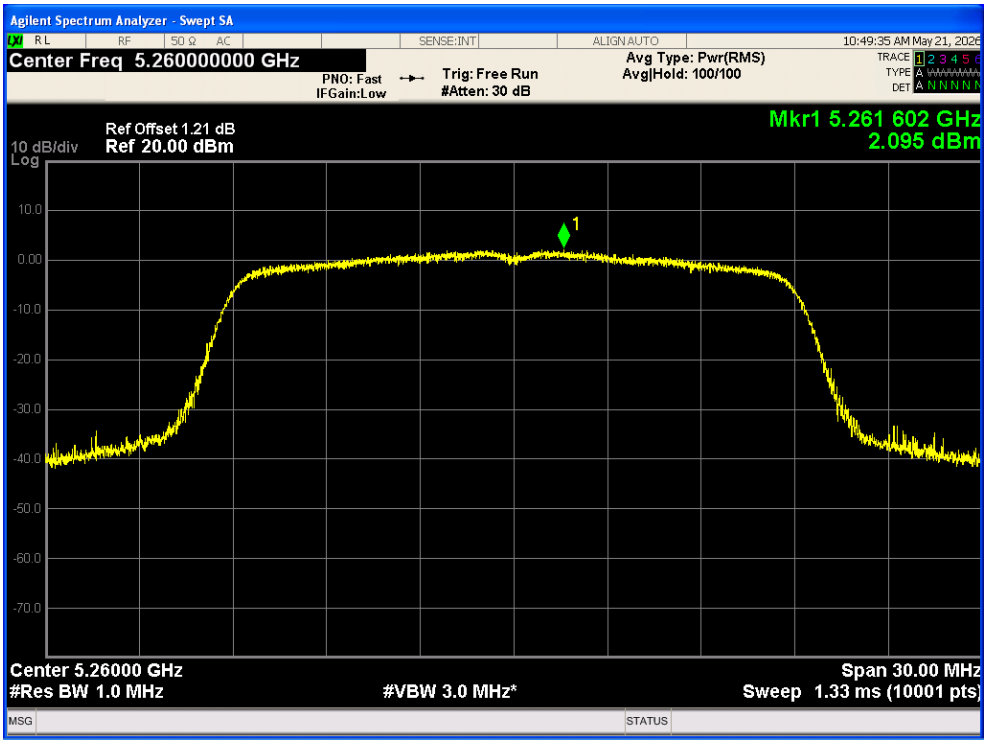
PSD NVNT a 5280MHz Ant1



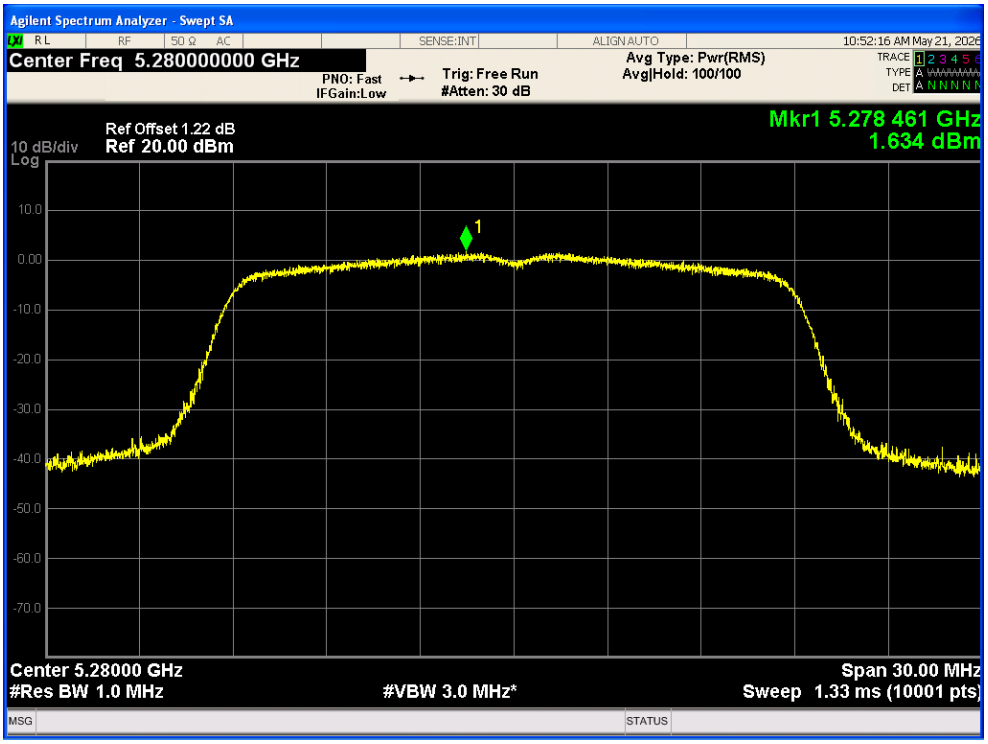
PSD NVNT a 5320MHz Ant1



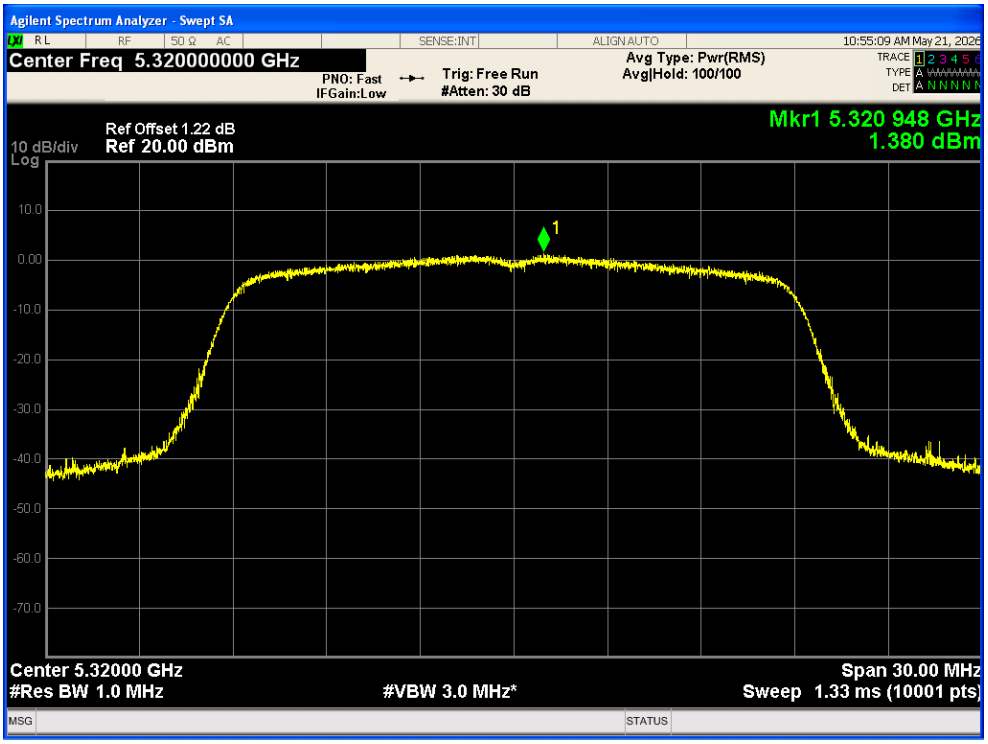
PSD NVNT ac20 5260MHz Ant1



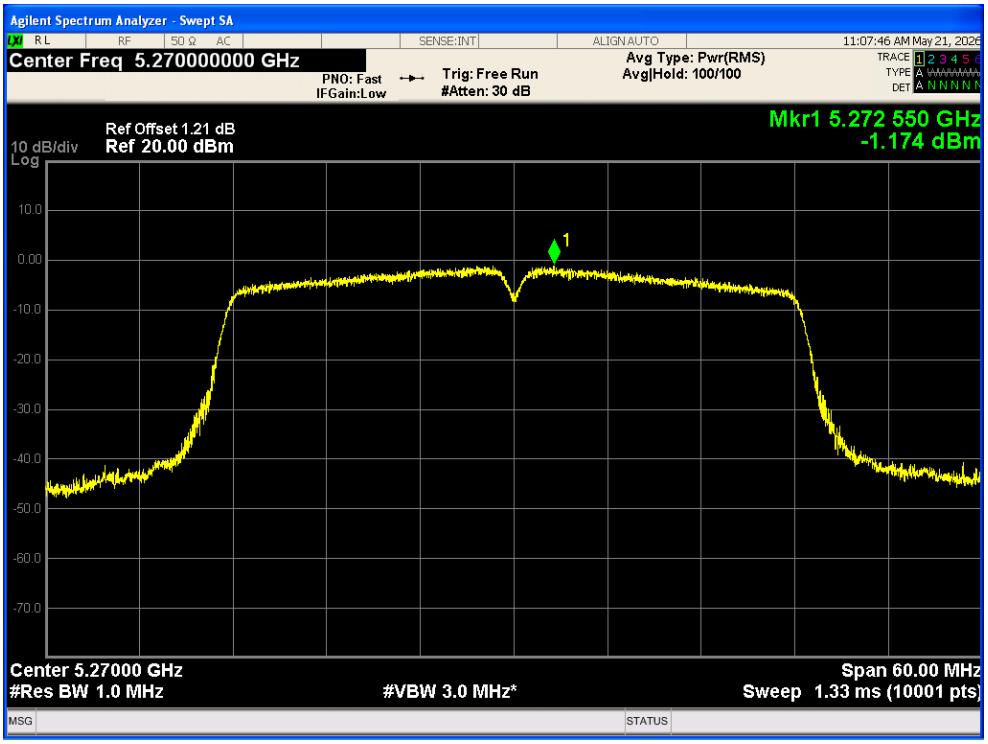
PSD NVNT ac20 5280MHz Ant1



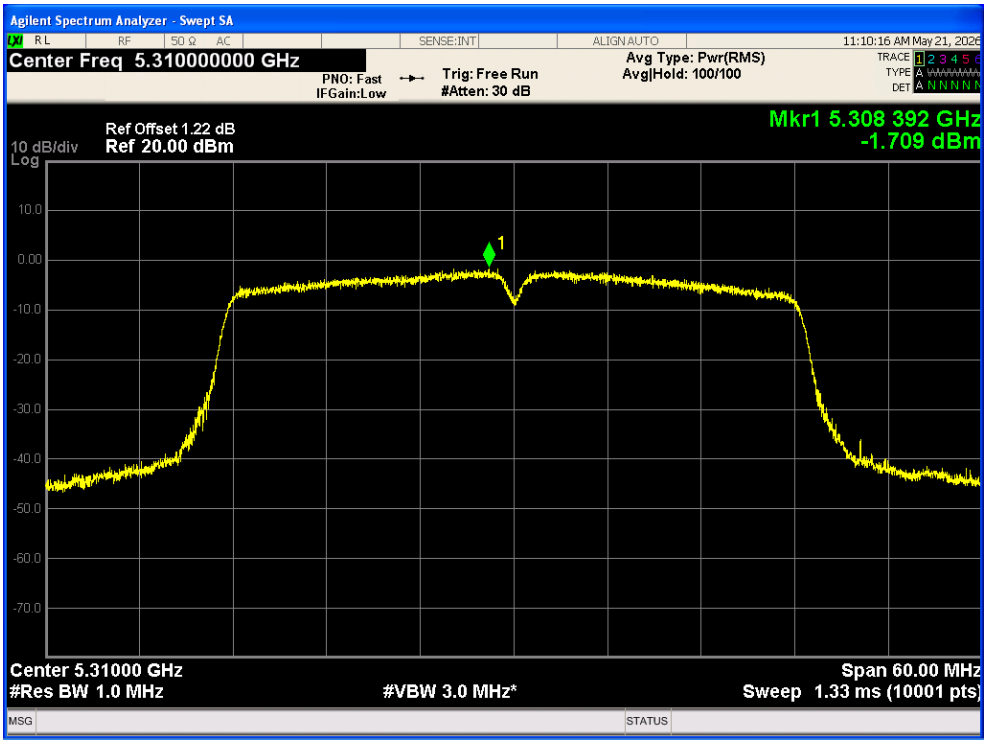
PSD NVNT ac20 5320MHz Ant1



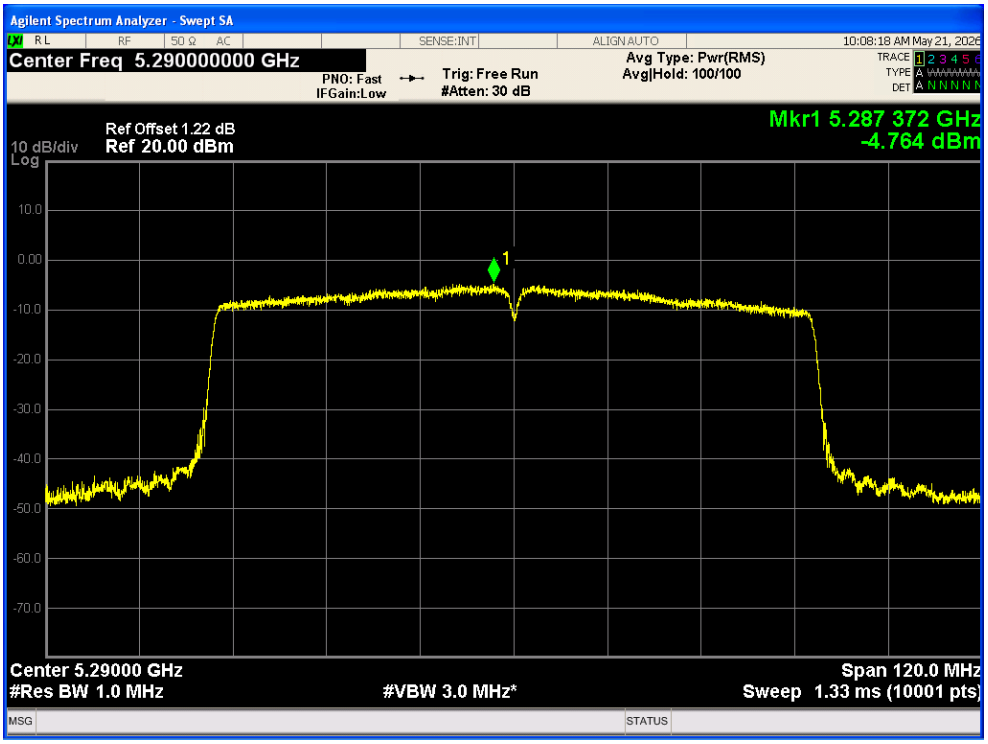
PSD NVNT ac40 5270MHz Ant1



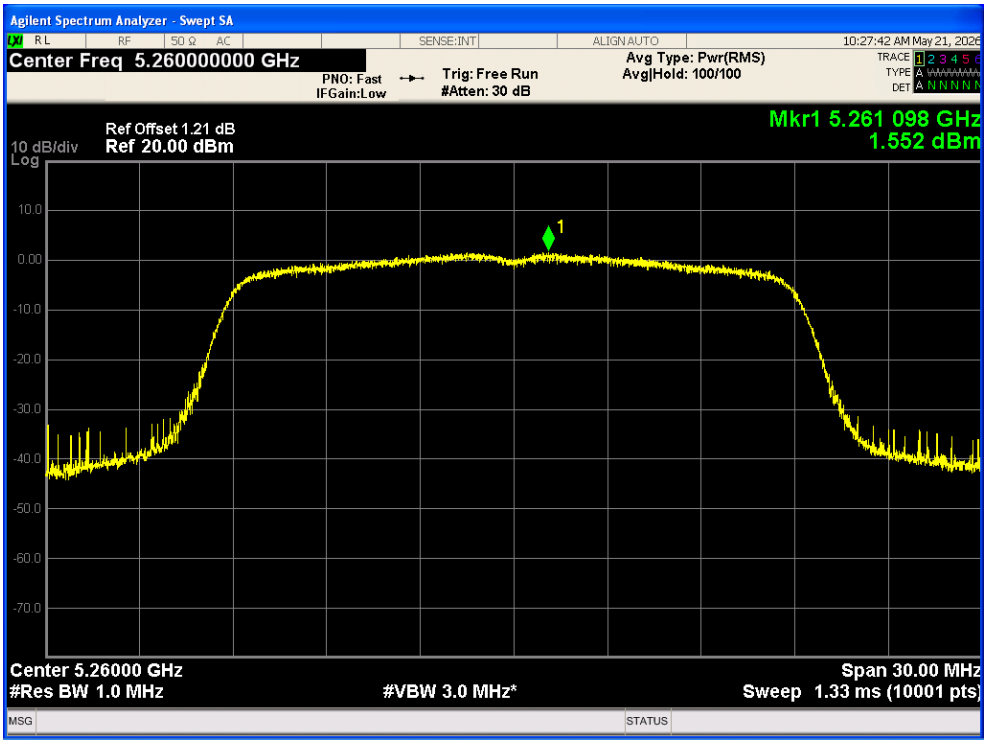
PSD NVNT ac40 5310MHz Ant1



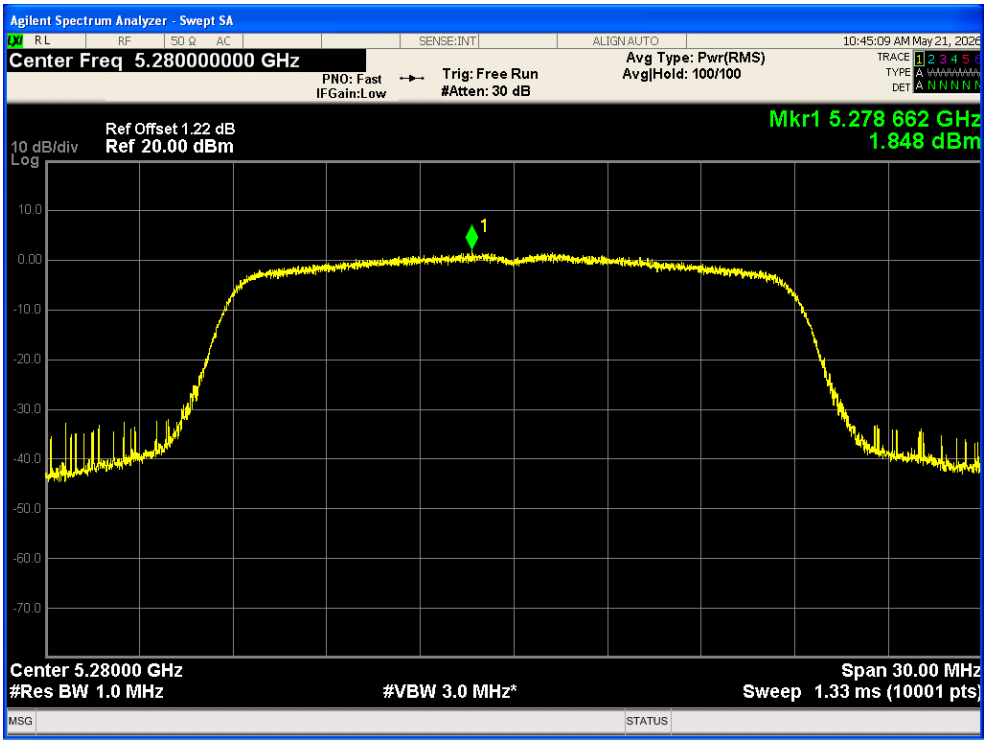
PSD NVNT ac80 5290MHz Ant1



PSD NVNT n20 5260MHz Ant1



PSD NVNT n20 5280MHz Ant1



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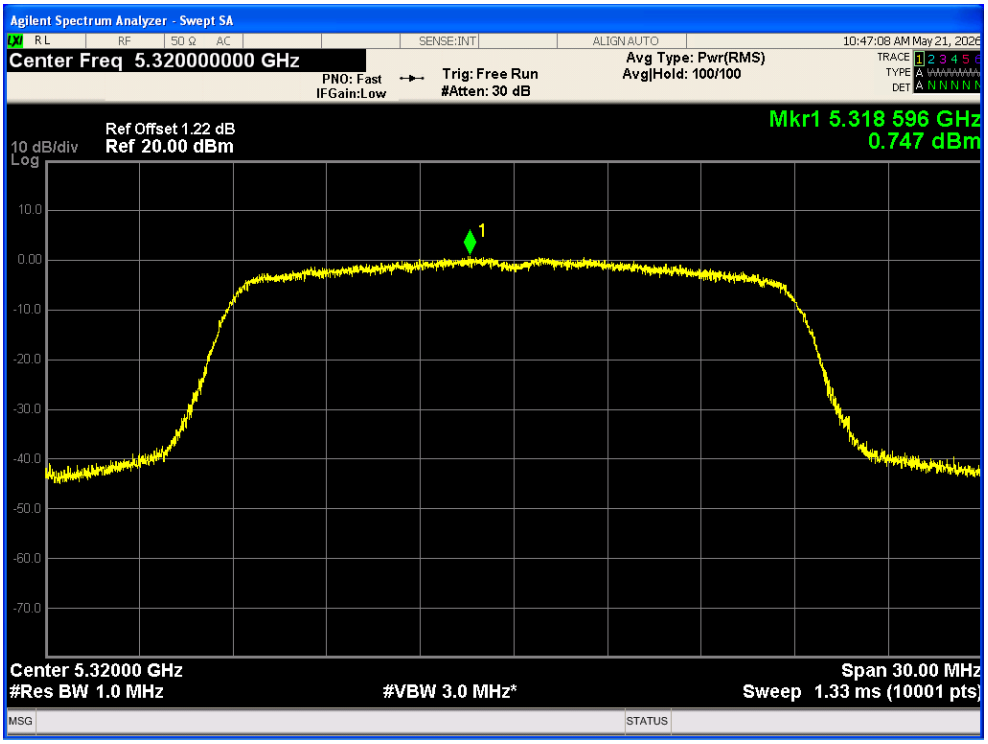
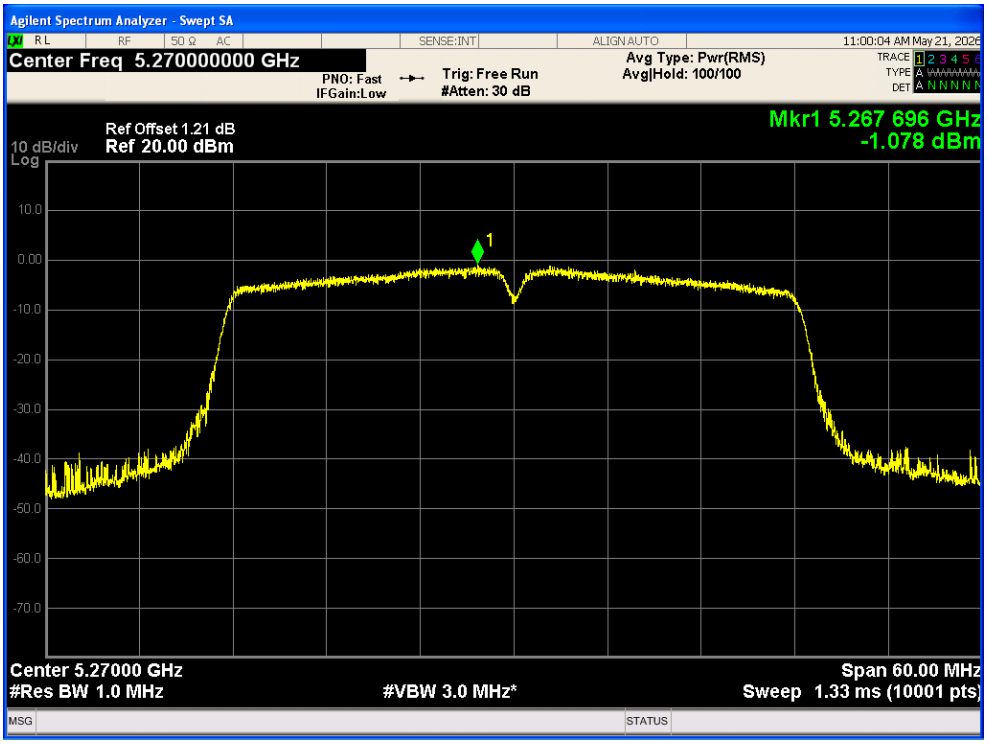
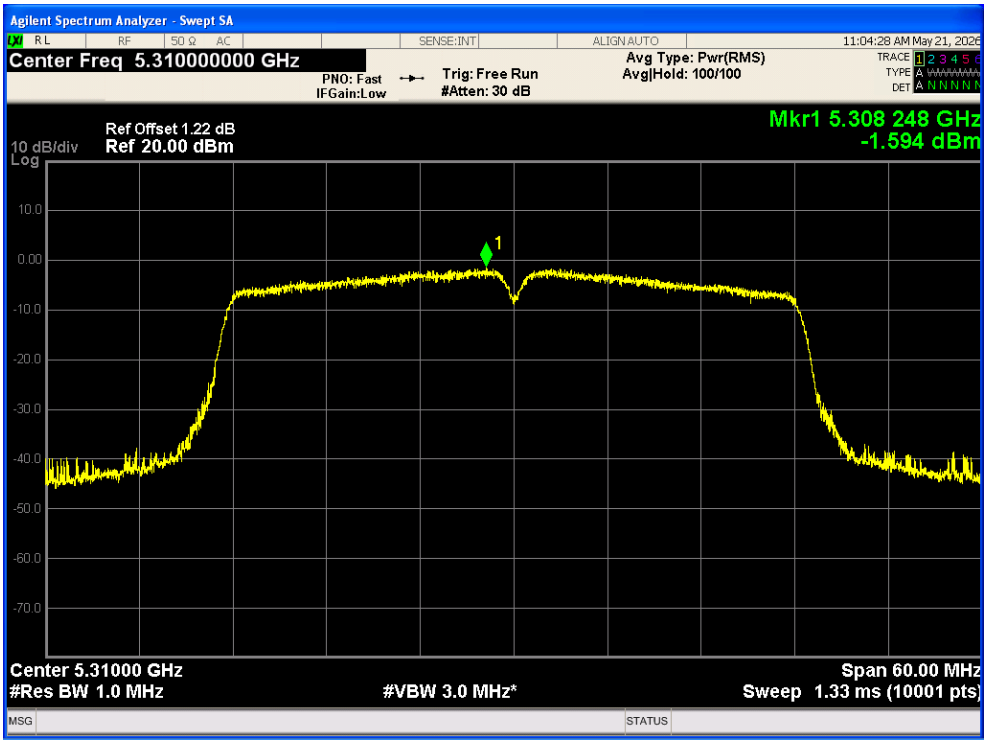


PSD NVNT n40 5270MHz Ant1



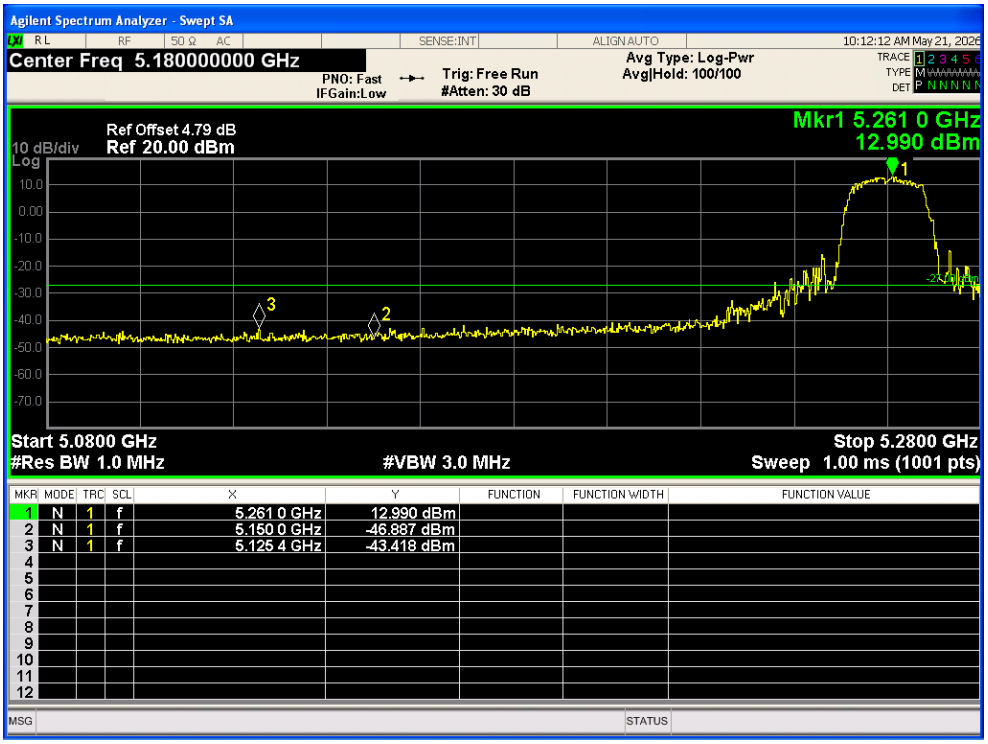
PSD NVNT n40 5310MHz Ant1



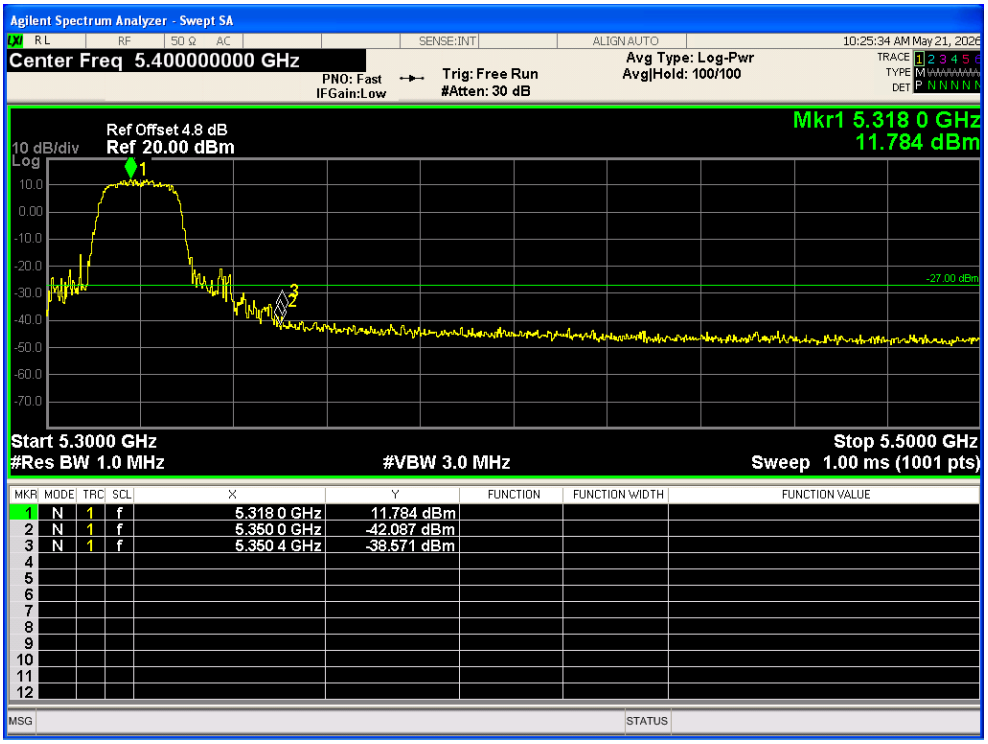
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5260	Ant1	-43.41	-27	Pass
NVNT	a	5320	Ant1	-38.57	-27	Pass
NVNT	ac20	5260	Ant1	-43.19	-27	Pass
NVNT	ac20	5320	Ant1	-36.94	-27	Pass
NVNT	ac40	5270	Ant1	-43.76	-27	Pass
NVNT	ac40	5310	Ant1	-30.44	-27	Pass
NVNT	ac80	5290	Ant1	-41.4	-27	Pass
NVNT	n20	5260	Ant1	-43.51	-27	Pass
NVNT	n20	5320	Ant1	-36.23	-27	Pass
NVNT	n40	5270	Ant1	-43.76	-27	Pass
NVNT	n40	5310	Ant1	-30.77	-27	Pass

Band Edge NVNT a 5260MHz Low Ant1



Band Edge NVNT a 5320MHz High Ant1



Band Edge NVNT ac20 5260MHz Low Ant1