



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Test Model: 510G

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	22.487	≥ 0.5	Pass
NVNT	a	5200	Ant0	24.267	≥ 0.5	Pass
NVNT	a	5240	Ant0	25.753	≥ 0.5	Pass
NVNT	n20	5180	Ant0	27.883	≥ 0.5	Pass
NVNT	n20	5200	Ant0	28.163	≥ 0.5	Pass
NVNT	n20	5240	Ant0	26.671	≥ 0.5	Pass
NVNT	n40	5190	Ant0	39.294	≥ 0.5	Pass
NVNT	n40	5230	Ant0	39.182	≥ 0.5	Pass
NVNT	ac20	5180	Ant0	27.52	≥ 0.5	Pass
NVNT	ac20	5200	Ant0	27.8	≥ 0.5	Pass
NVNT	ac20	5240	Ant0	26.923	≥ 0.5	Pass
NVNT	ac40	5190	Ant0	40.721	≥ 0.5	Pass
NVNT	ac40	5230	Ant0	41.944	≥ 0.5	Pass
NVNT	ac80	5210	Ant0	81.582	≥ 0.5	Pass

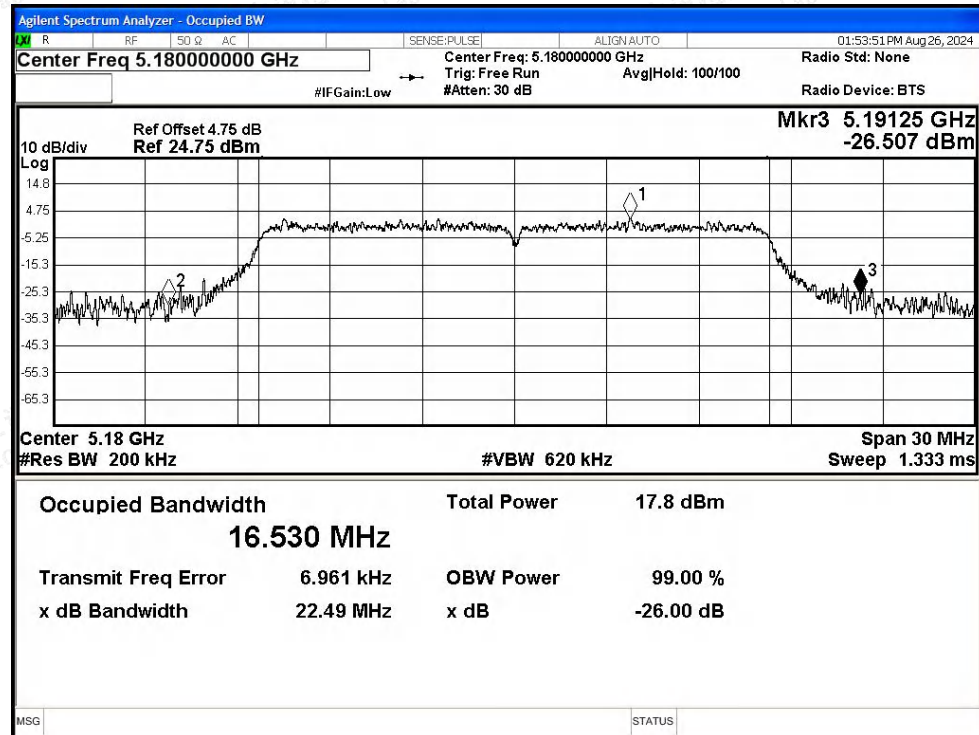


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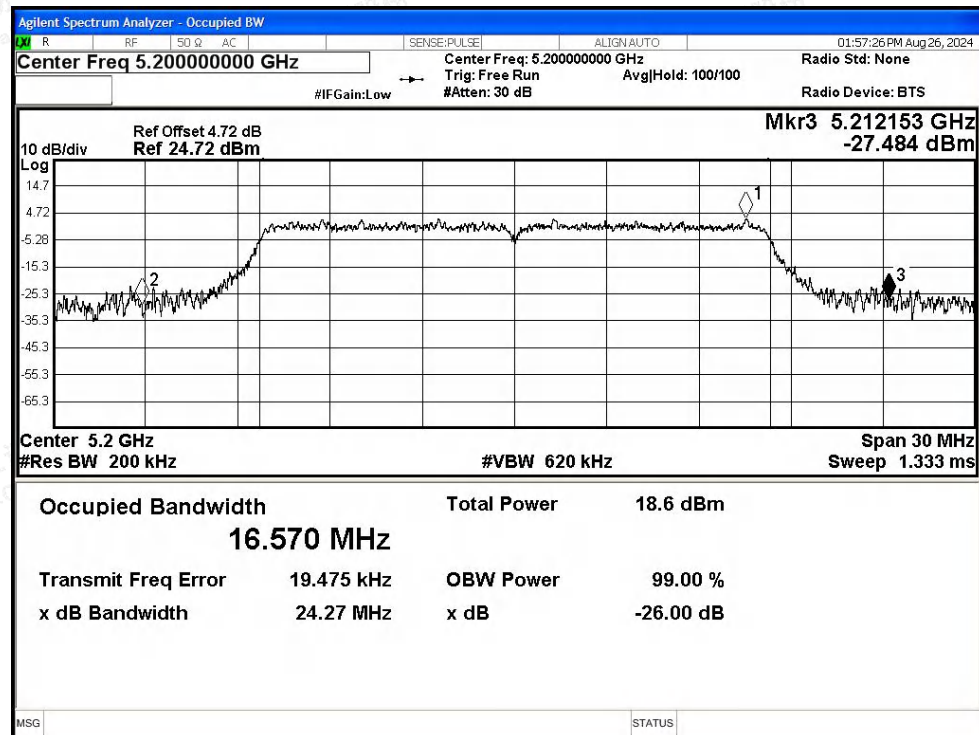


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0



-26dB Bandwidth NVNT a 5200MHz Ant0

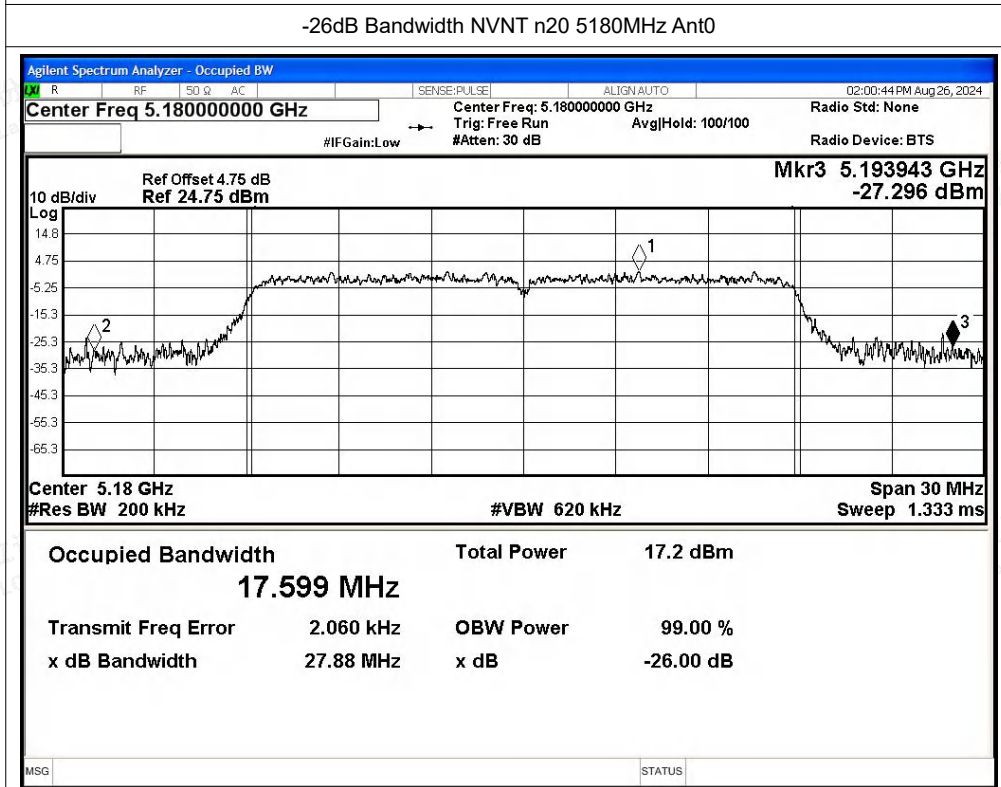
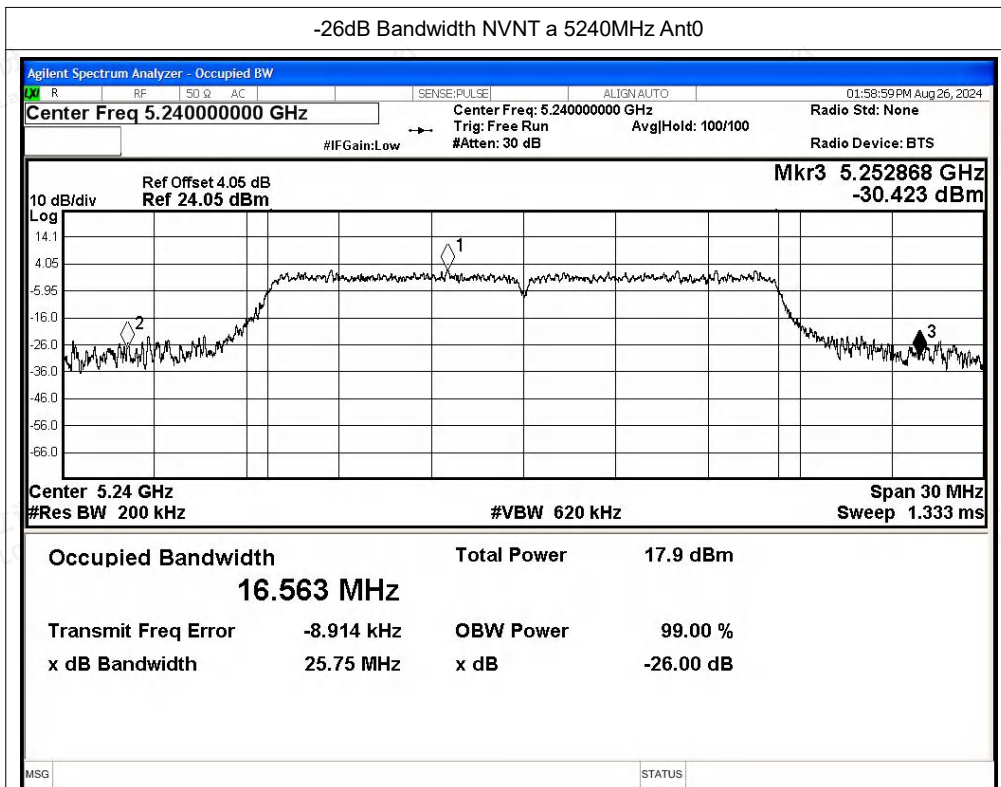


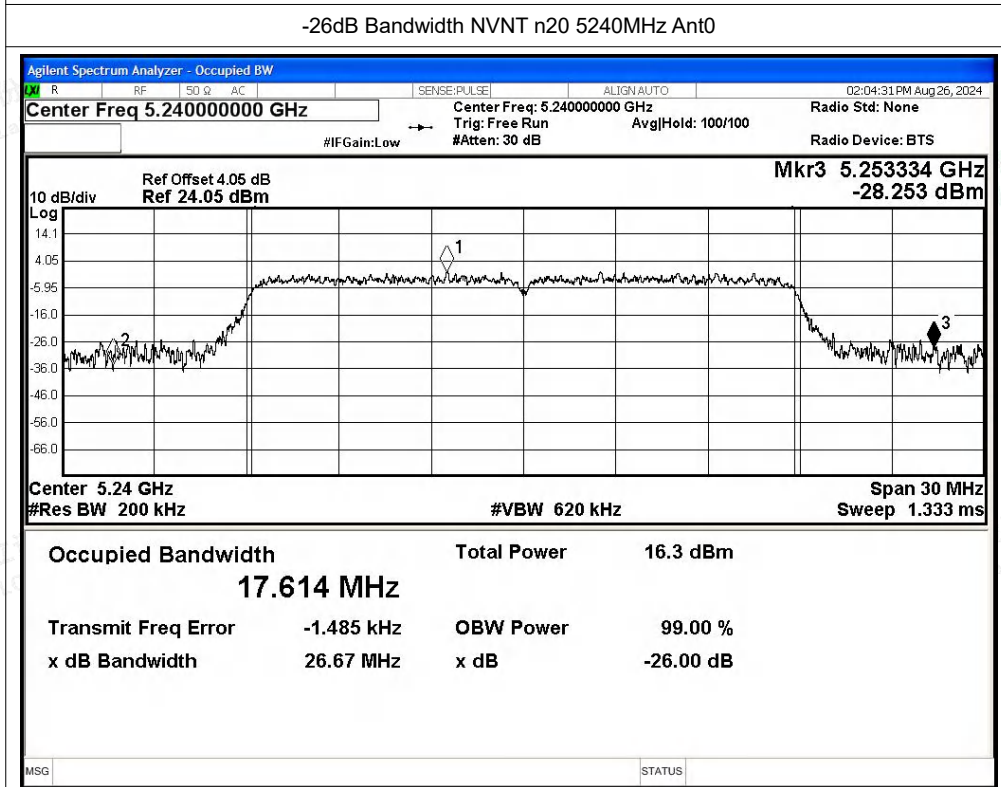
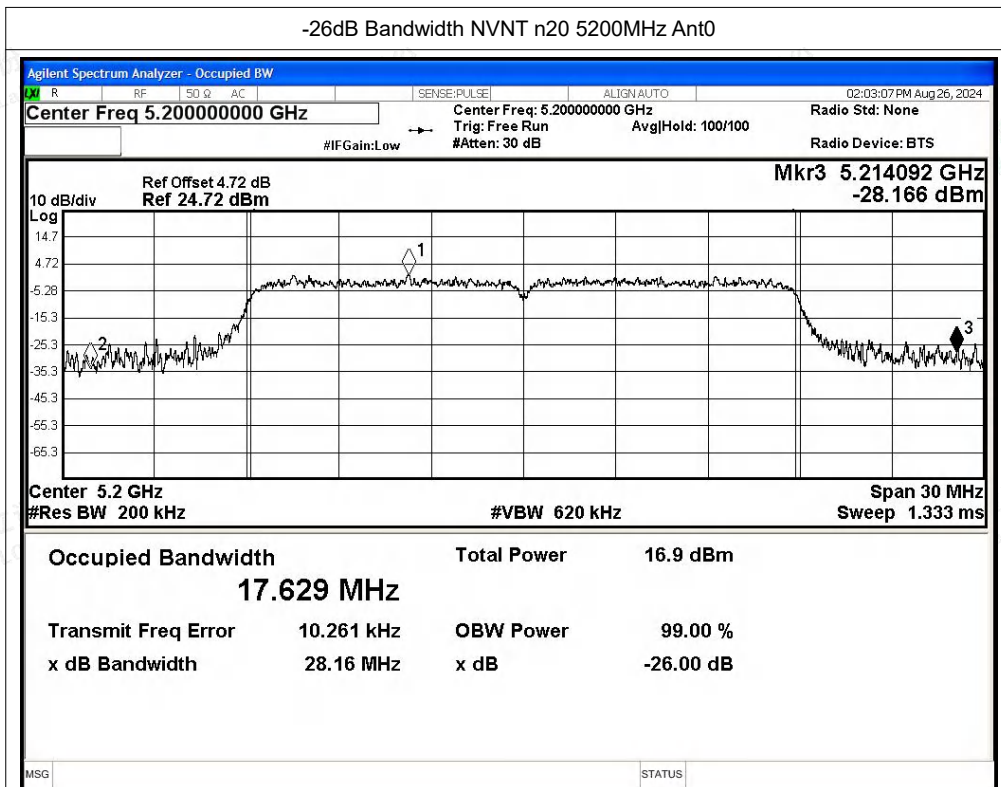
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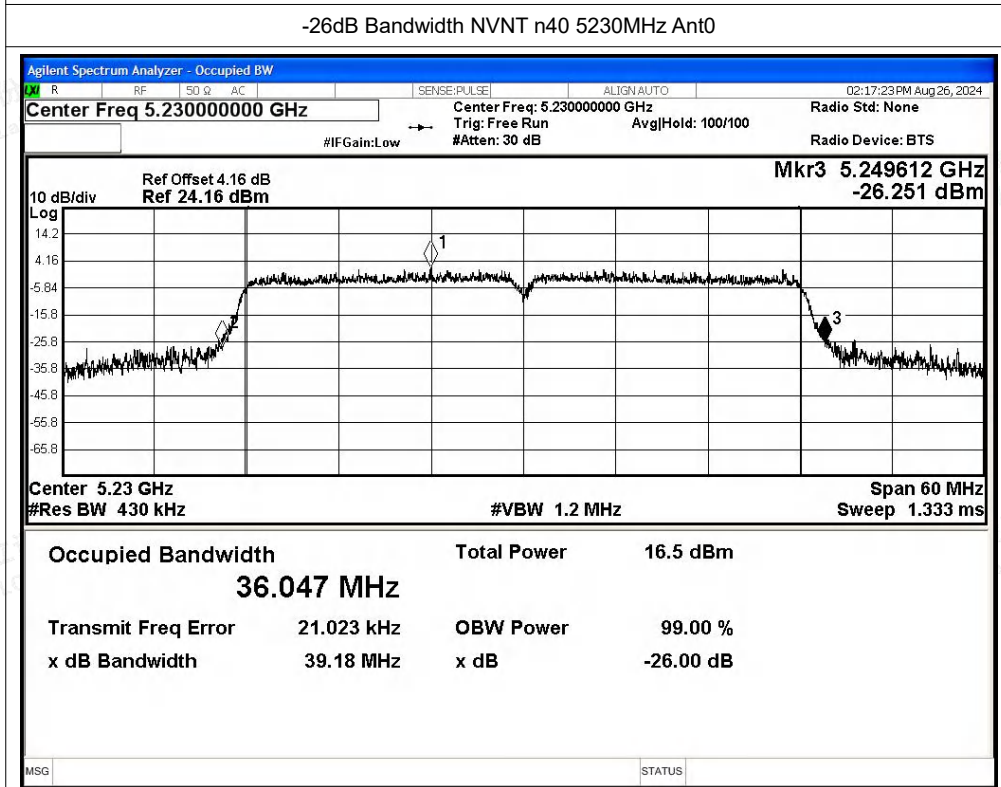
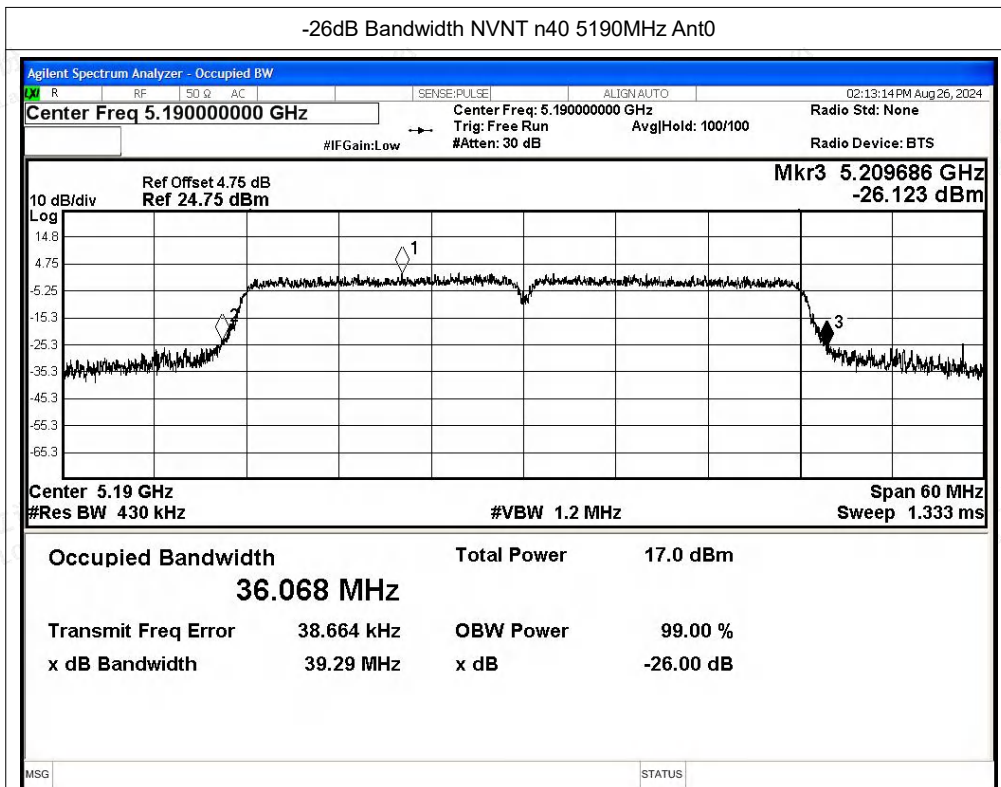


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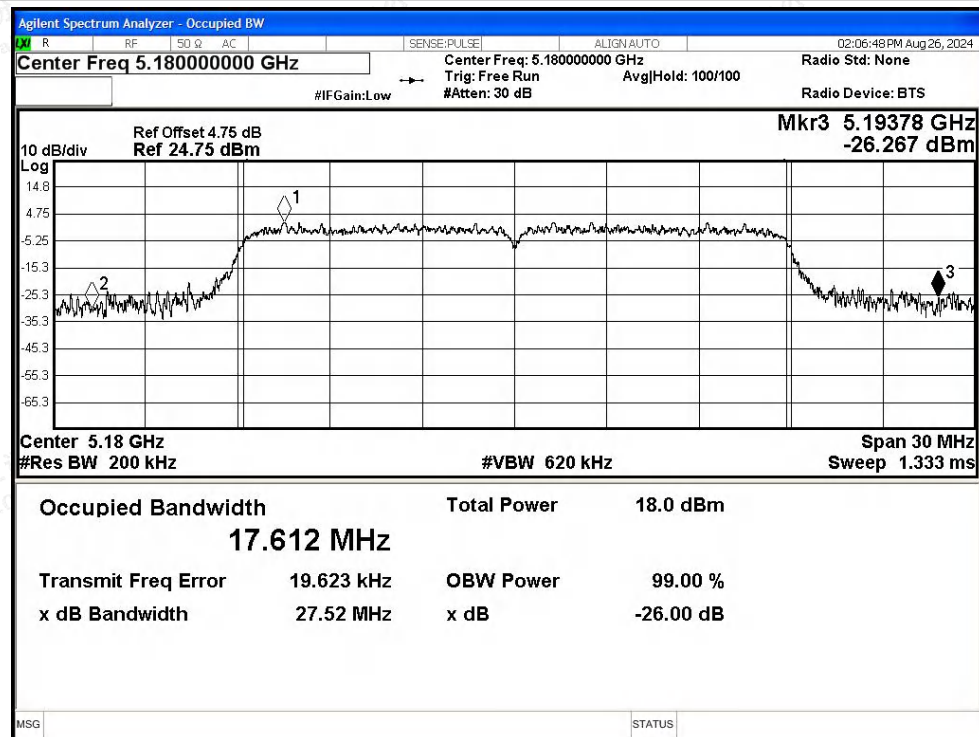
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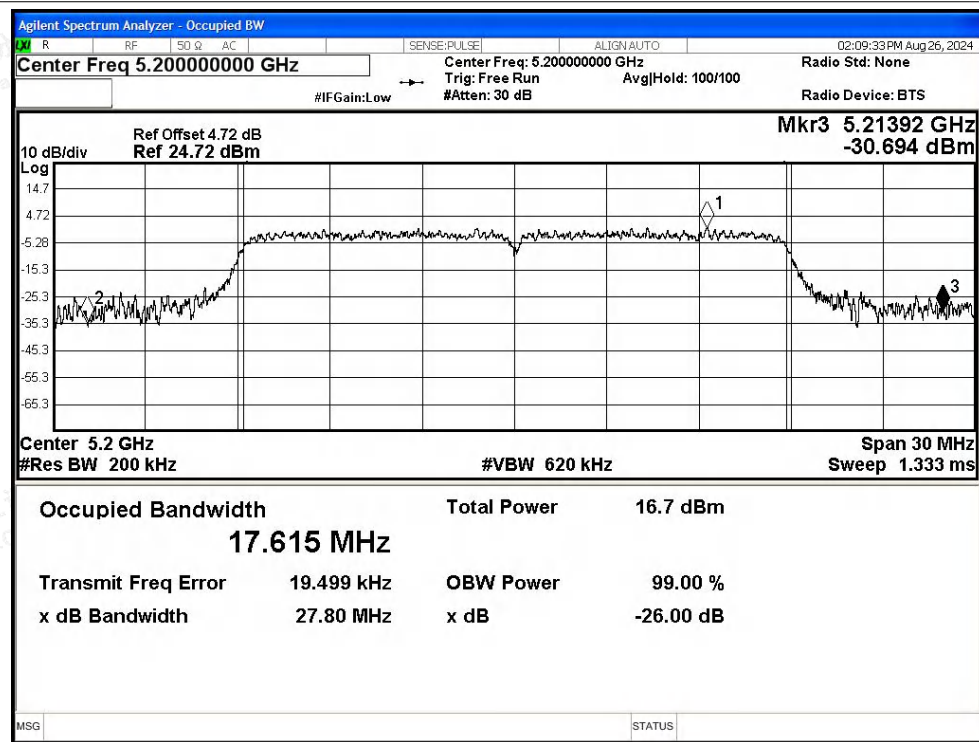




-26dB Bandwidth NVNT ac20 5180MHz Ant0



-26dB Bandwidth NVNT ac20 5200MHz Ant0



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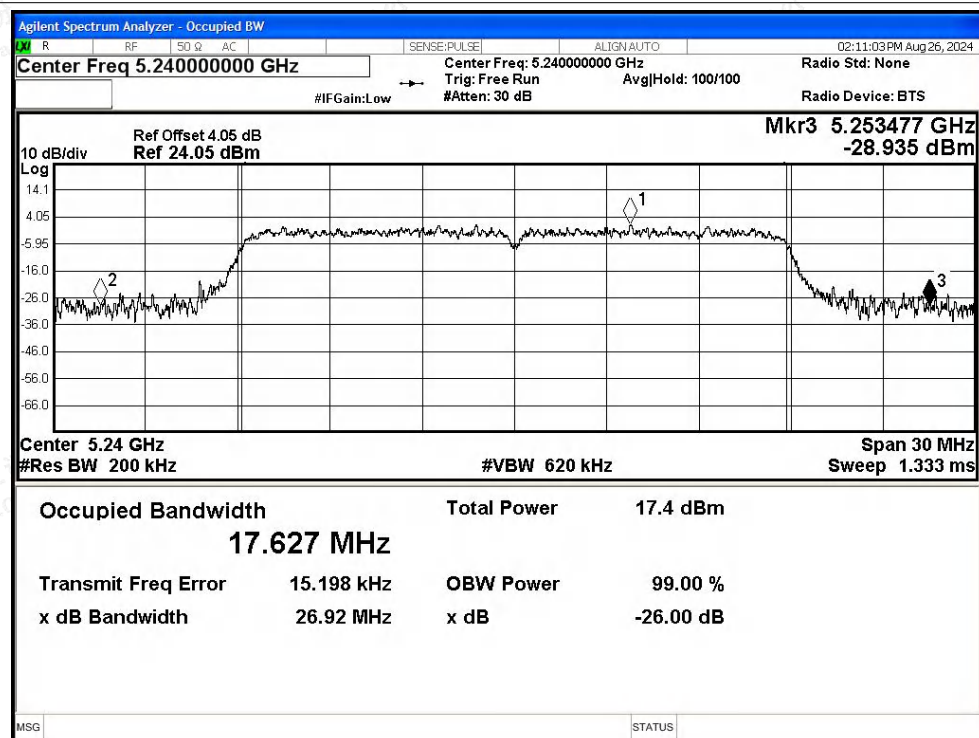
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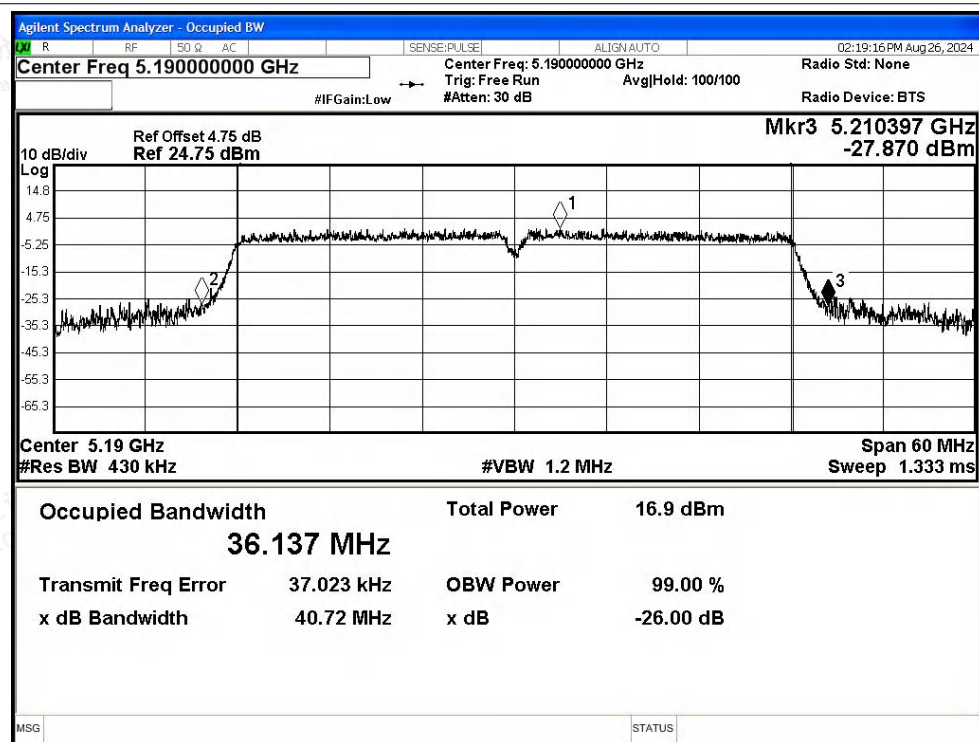
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-26dB Bandwidth NVNT ac20 5240MHz Ant0



-26dB Bandwidth NVNT ac40 5190MHz Ant0



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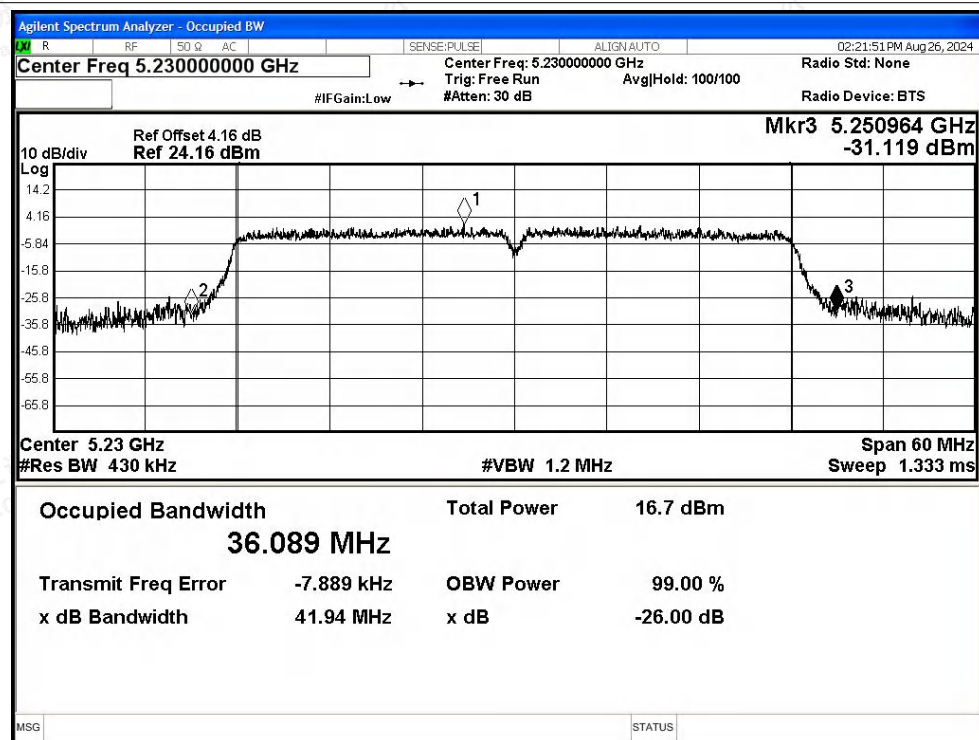
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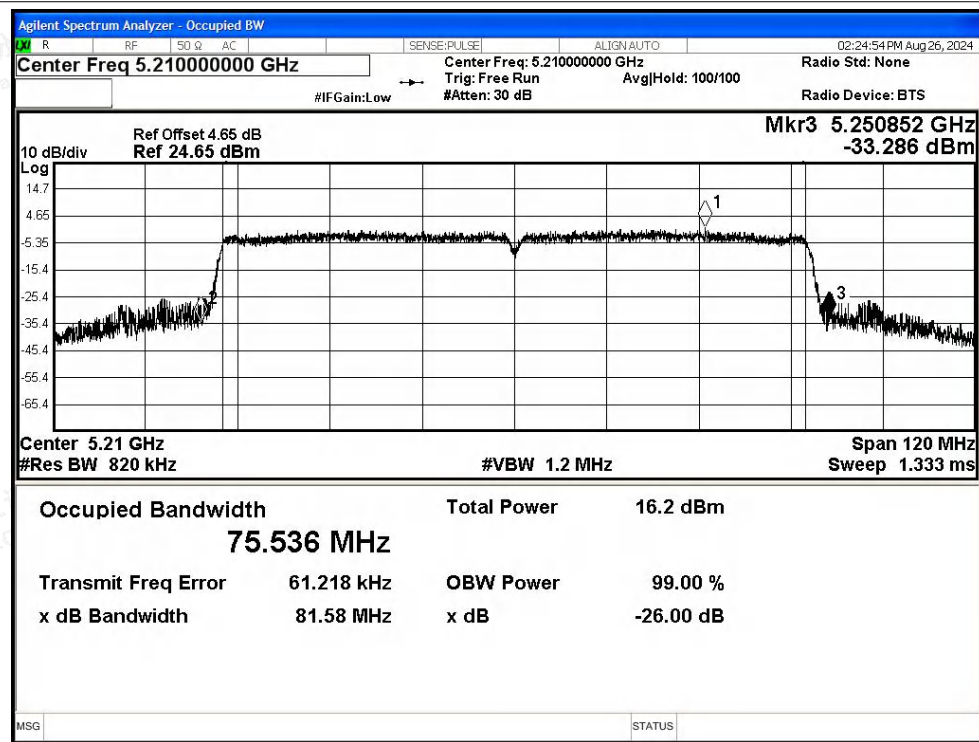
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-26dB Bandwidth NVNT ac40 5230MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant0



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Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	22.869	≥ 0.5	Pass
NVNT	a	5200	Ant1	21.664	≥ 0.5	Pass
NVNT	a	5240	Ant1	24.472	≥ 0.5	Pass
NVNT	n20	5180	Ant1	25.223	≥ 0.5	Pass
NVNT	n20	5200	Ant1	26.162	≥ 0.5	Pass
NVNT	n20	5240	Ant1	26.475	≥ 0.5	Pass
NVNT	n40	5190	Ant1	40.474	≥ 0.5	Pass
NVNT	n40	5230	Ant1	41.622	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	29.044	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	24.527	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	25.759	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	43.25	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	43.664	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	83.432	≥ 0.5	Pass

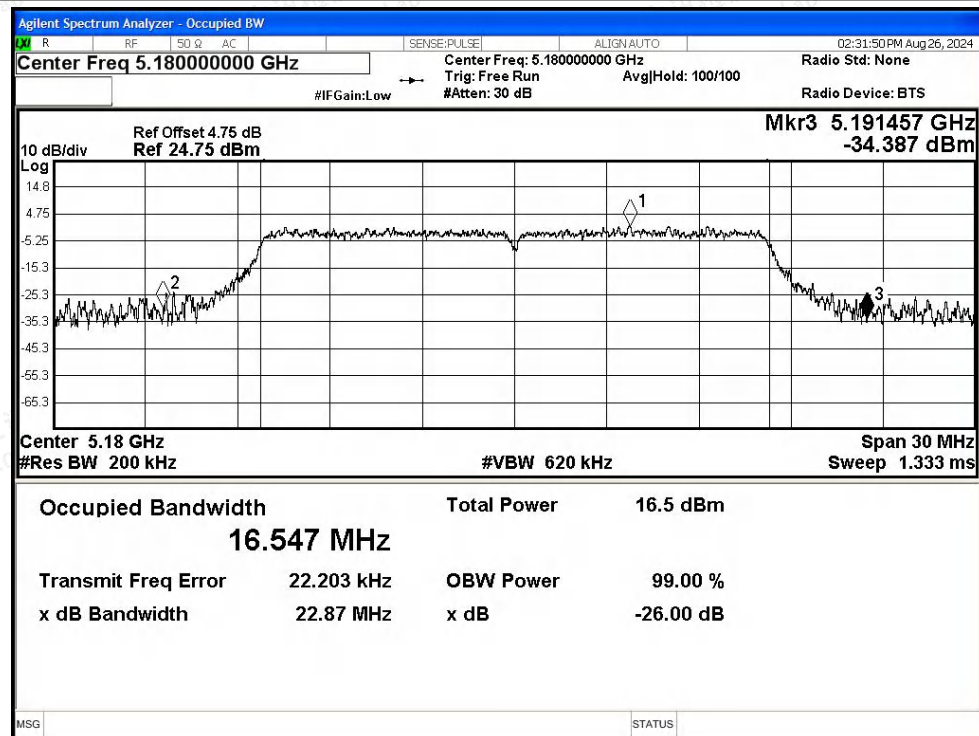


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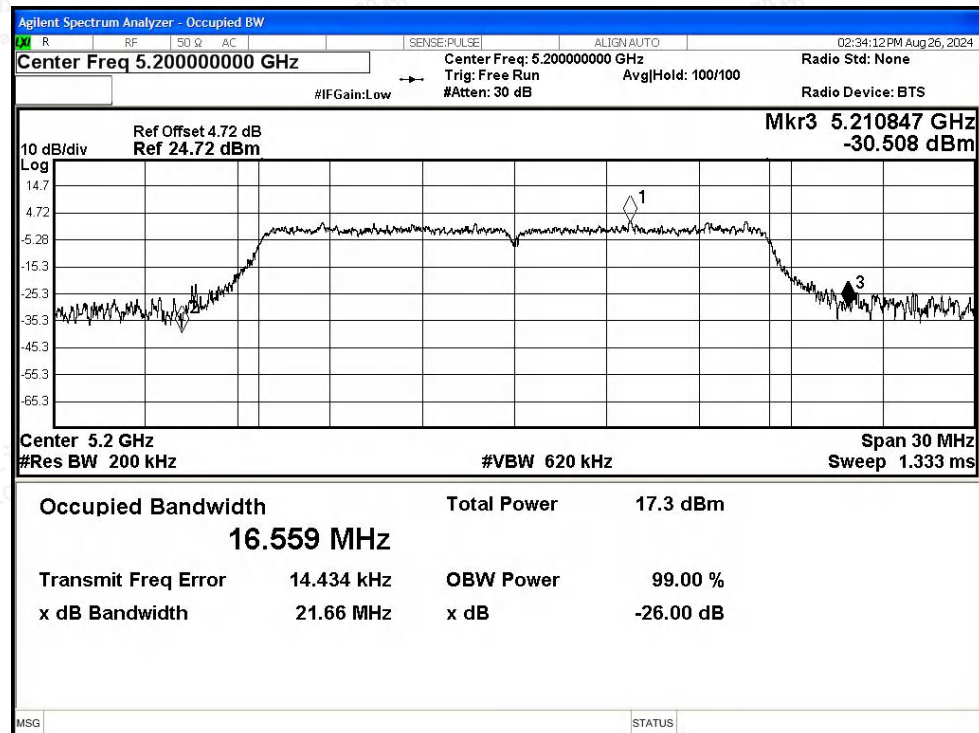


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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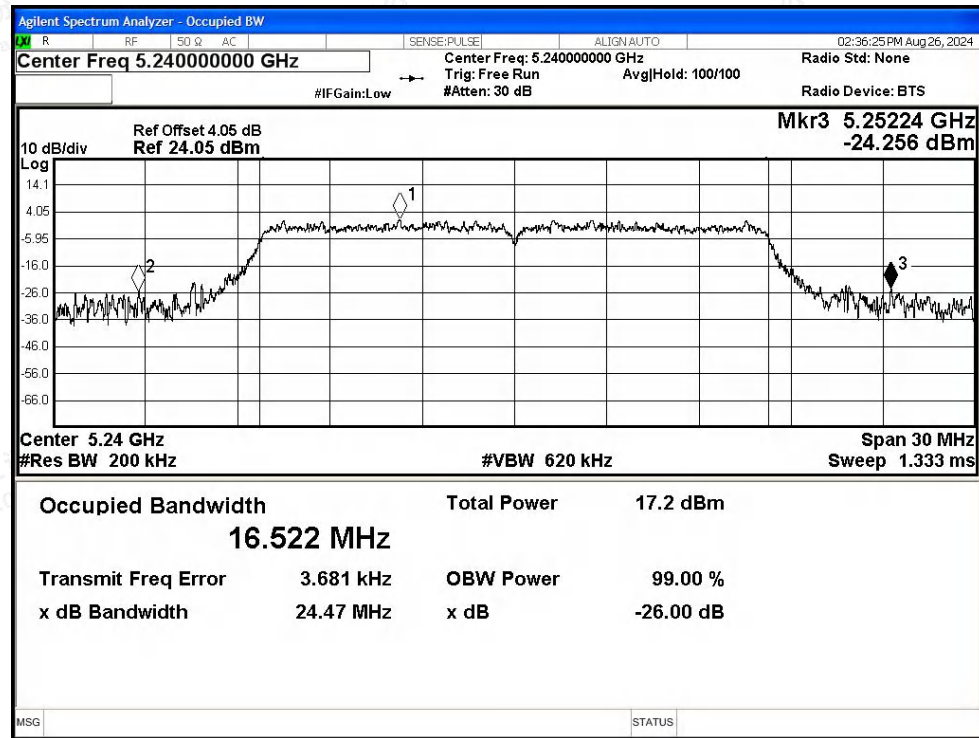
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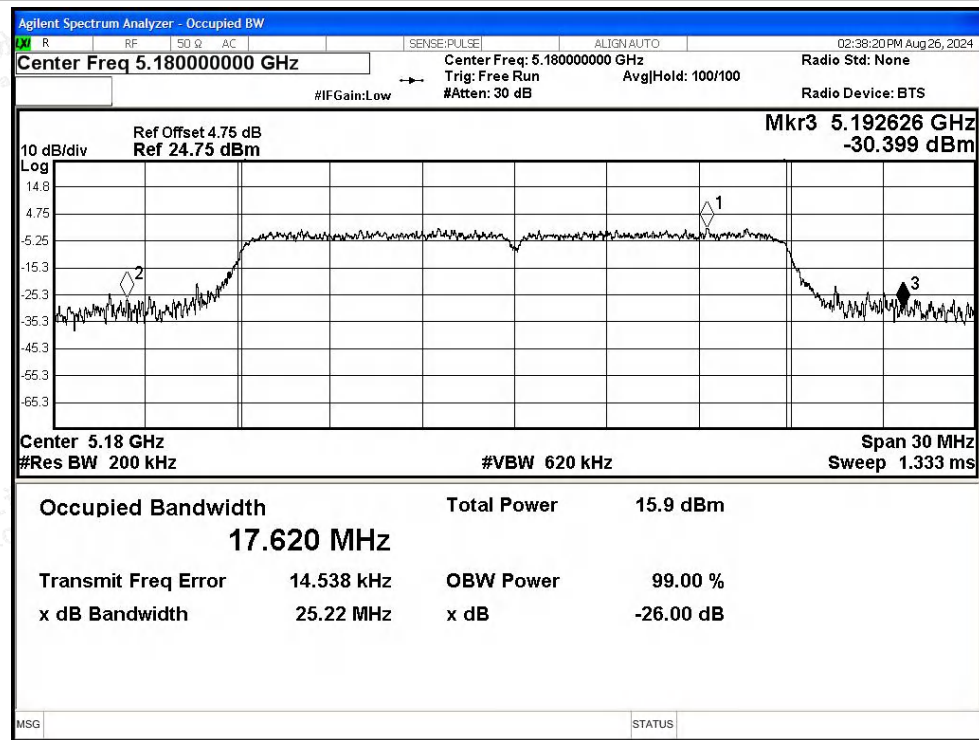
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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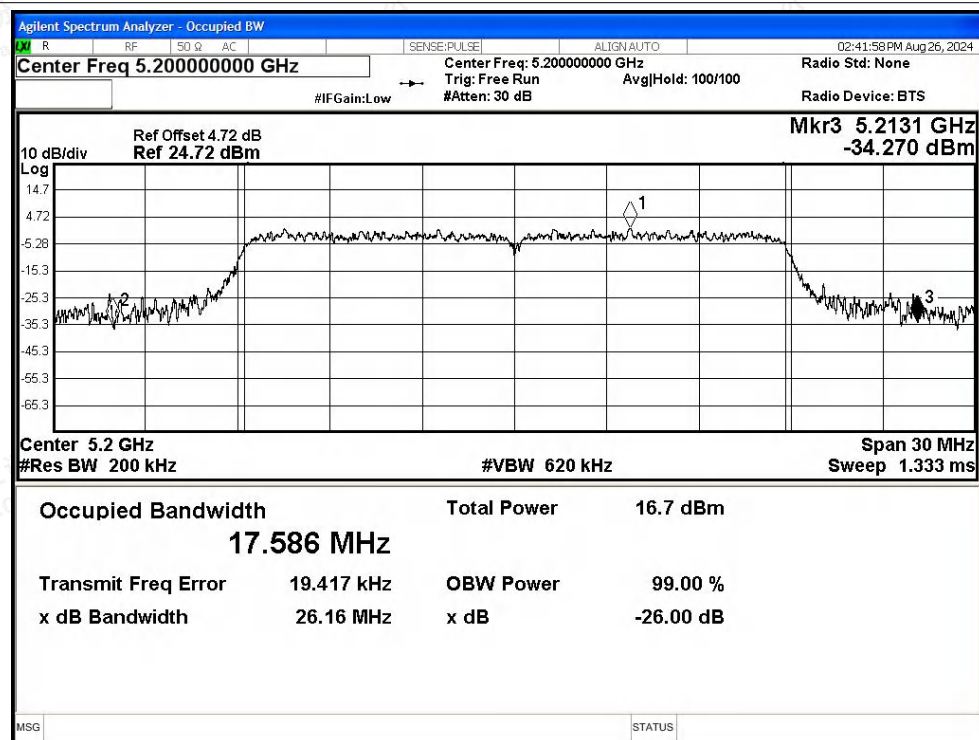
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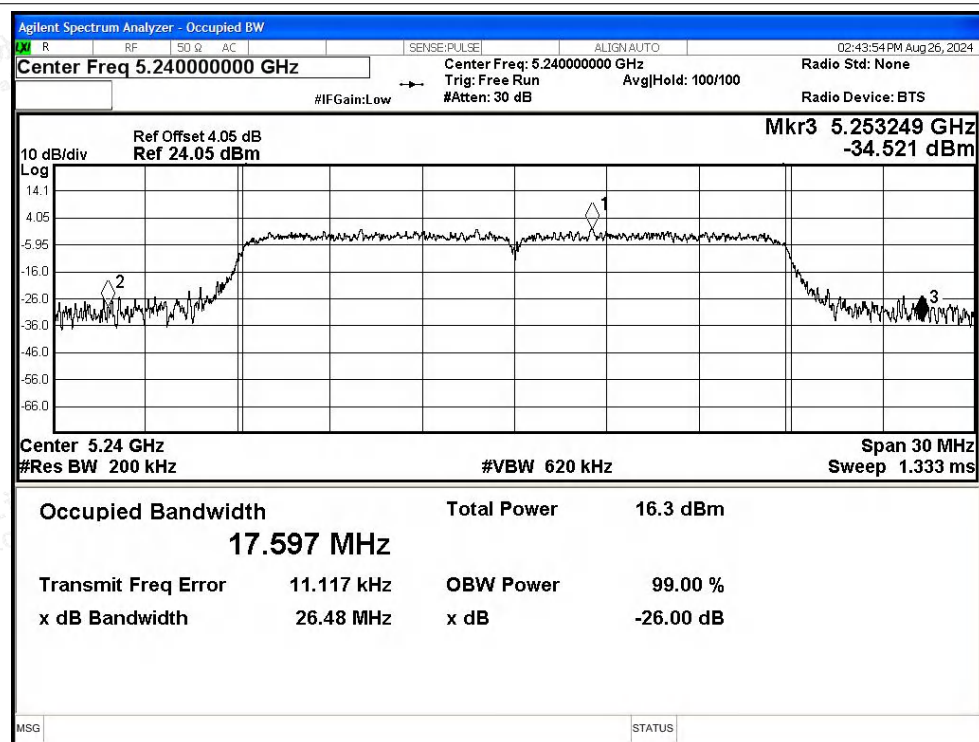
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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1

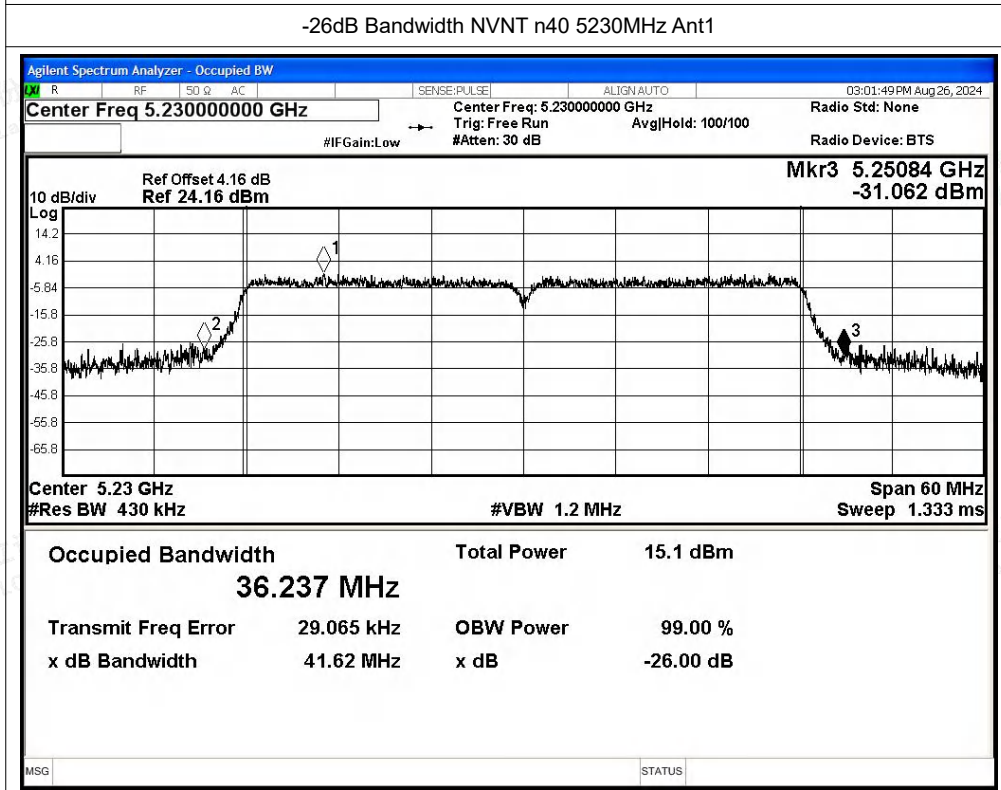
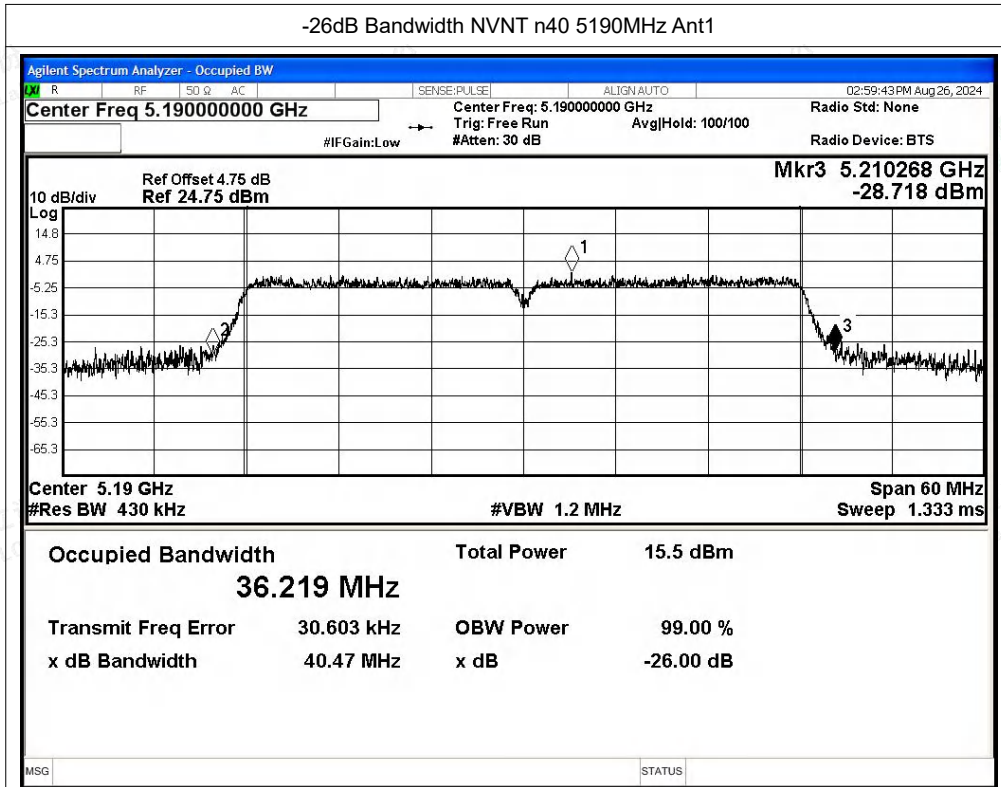


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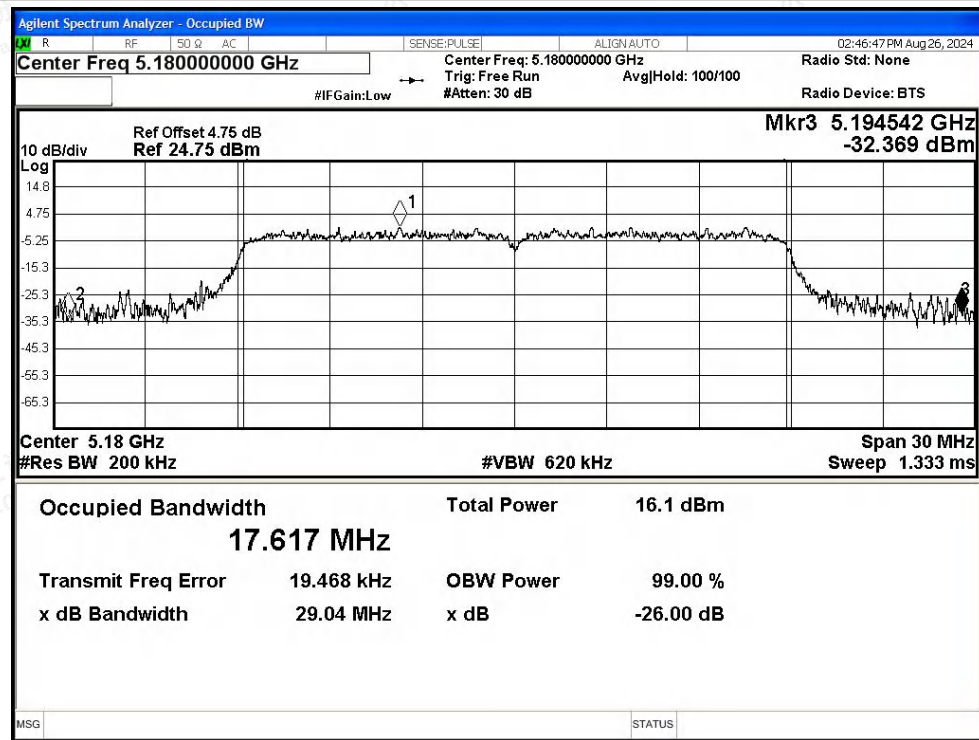
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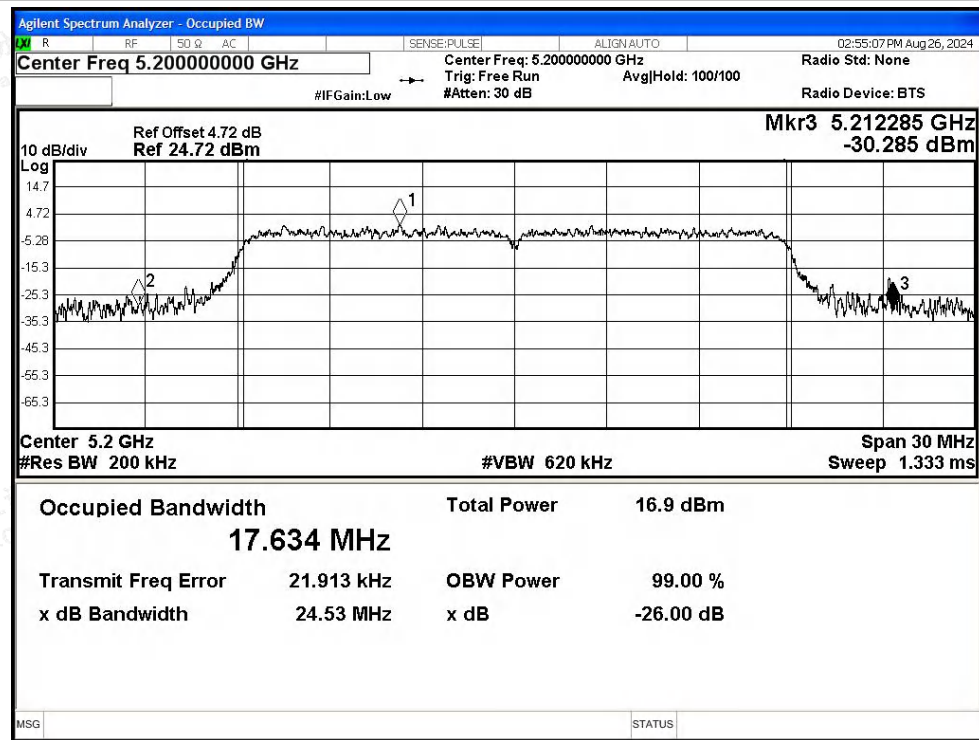
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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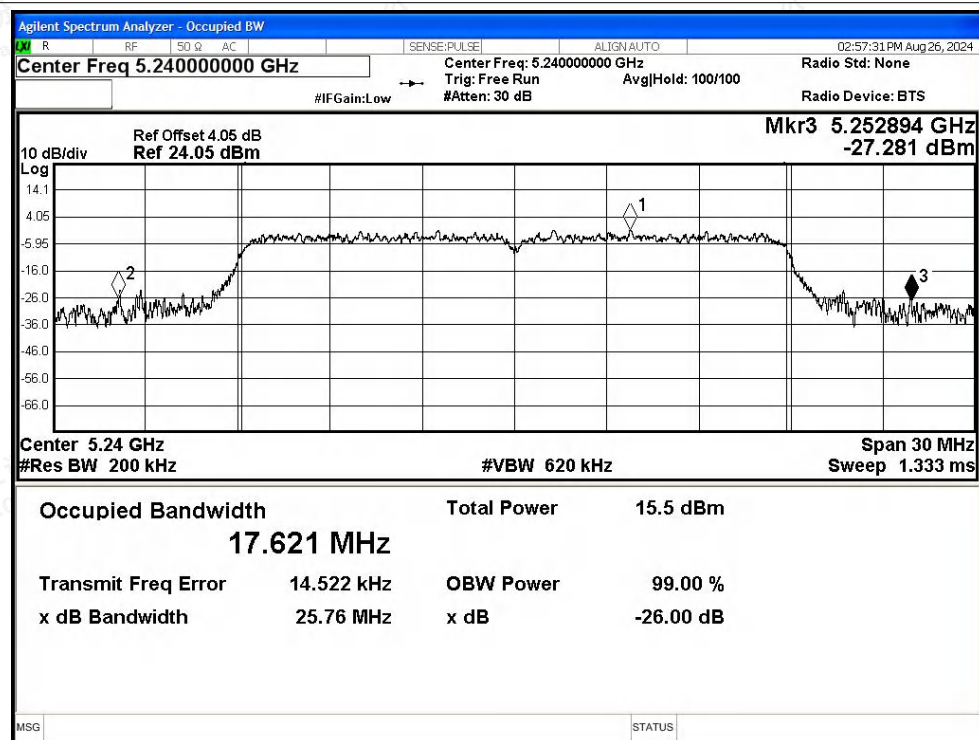
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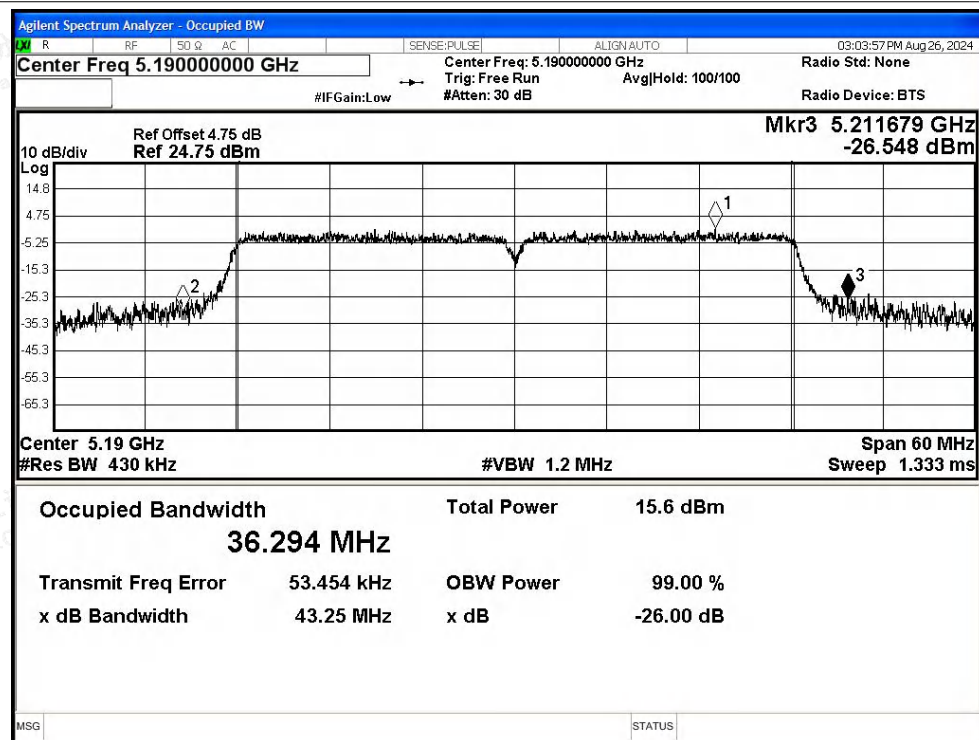
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-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



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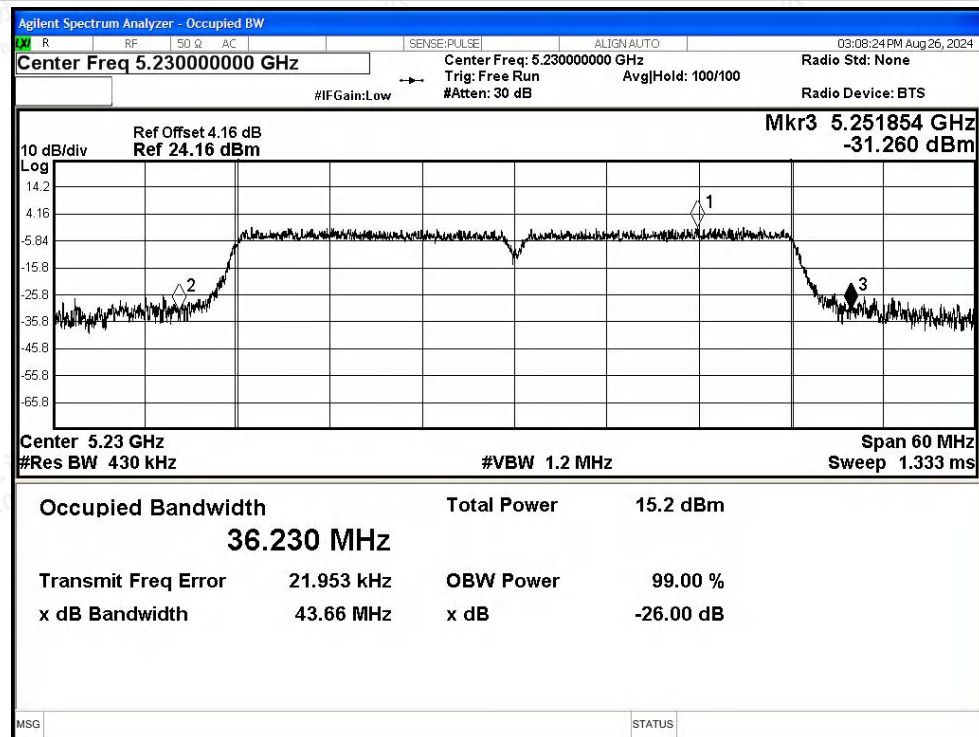
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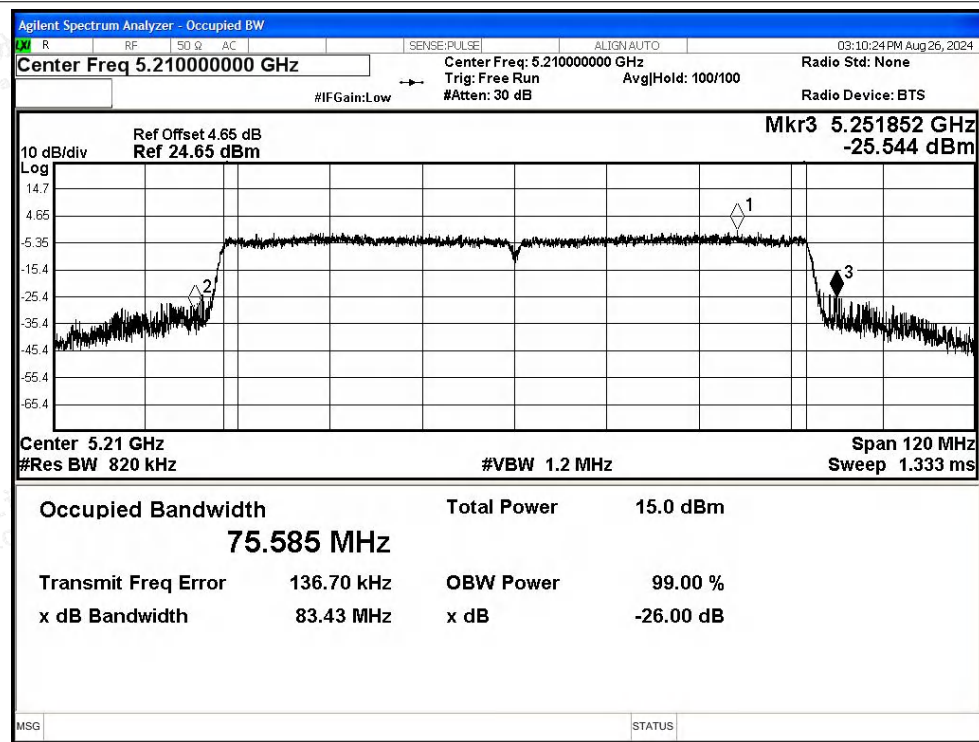
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-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



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D.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	12	0.24	12.24	24	Pass
NVNT	a	5200	Ant0	12.81	0.24	13.05	24	Pass
NVNT	a	5240	Ant0	12.08	0.24	12.32	24	Pass
NVNT	n20	5180	Ant0	11.4	0.28	11.68	24	Pass
NVNT	n20	5200	Ant0	11.17	0.28	11.45	24	Pass
NVNT	n20	5240	Ant0	11.52	0.28	11.80	24	Pass
NVNT	n40	5190	Ant0	10.71	0.45	11.16	24	Pass
NVNT	n40	5230	Ant0	10.36	0.45	10.81	24	Pass
NVNT	ac20	5180	Ant0	11.28	0.28	11.56	24	Pass
NVNT	ac20	5200	Ant0	11.14	0.28	11.42	24	Pass
NVNT	ac20	5240	Ant0	11.68	0.28	11.96	24	Pass
NVNT	ac40	5190	Ant0	10.88	0.44	11.32	24	Pass
NVNT	ac40	5230	Ant0	10.48	0.45	10.93	24	Pass
NVNT	ac80	5210	Ant0	9.25	0.64	9.89	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.83	0.24	12.07	24	Pass
NVNT	a	5200	Ant1	11.63	0.24	11.87	24	Pass
NVNT	a	5240	Ant1	11.24	0.24	11.48	24	Pass
NVNT	n20	5180	Ant1	10.23	0.28	10.51	24	Pass
NVNT	n20	5200	Ant1	10.94	0.28	11.22	24	Pass
NVNT	n20	5240	Ant1	10.59	0.28	10.87	24	Pass
NVNT	n40	5190	Ant1	9.54	0.45	9.99	24	Pass
NVNT	n40	5230	Ant1	8.99	0.45	9.44	24	Pass
NVNT	ac20	5180	Ant1	10.22	0.28	10.50	24	Pass
NVNT	ac20	5200	Ant1	10.19	0.28	10.47	24	Pass
NVNT	ac20	5240	Ant1	10.49	0.28	10.77	24	Pass
NVNT	ac40	5190	Ant1	9.56	0.45	10.01	24	Pass
NVNT	ac40	5230	Ant1	9.16	0.45	9.61	24	Pass
NVNT	ac80	5210	Ant1	8	0.65	8.65	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	11.68	10.51	14.14	23.01	Pass
NVNT	n20	5200	11.45	11.22	14.35	23.01	Pass
NVNT	n20	5240	11.80	10.87	14.37	23.01	Pass
NVNT	n40	5190	11.16	9.99	13.62	23.01	Pass
NVNT	n40	5230	10.81	9.44	13.19	23.01	Pass
NVNT	ac20	5180	11.56	10.50	14.07	23.01	Pass
NVNT	ac20	5200	11.42	10.47	13.98	23.01	Pass
NVNT	ac20	5240	11.96	10.77	14.42	23.01	Pass
NVNT	ac40	5190	11.32	10.01	13.72	23.01	Pass
NVNT	ac40	5230	10.93	9.61	13.33	23.01	Pass
NVNT	ac80	5210	9.89	8.65	12.32	23.01	Pass



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D.3 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	Ant0	1.42	0.24	1.66	11	Pass
NVNT	a	5200	Ant0	2.2	0.24	2.44	11	Pass
NVNT	a	5240	Ant0	1.71	0.24	1.95	11	Pass
NVNT	n20	5180	Ant0	0.55	0.28	0.83	11	Pass
NVNT	n20	5200	Ant0	0.39	0.28	0.67	11	Pass
NVNT	n20	5240	Ant0	-0.28	0.28	0.00	11	Pass
NVNT	n40	5190	Ant0	-2.7	0.45	-2.25	11	Pass
NVNT	n40	5230	Ant0	-3.2	0.45	-2.75	11	Pass
NVNT	ac20	5180	Ant0	1.53	0.28	1.81	11	Pass
NVNT	ac20	5200	Ant0	0.33	0.28	0.61	11	Pass
NVNT	ac20	5240	Ant0	0.93	0.28	1.21	11	Pass
NVNT	ac40	5190	Ant0	-2.58	0.44	-2.14	11	Pass
NVNT	ac40	5230	Ant0	-2.88	0.45	-2.43	11	Pass
NVNT	ac80	5210	Ant0	-7.49	0.64	-6.85	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.1	0.24	0.34	11	Pass
NVNT	a	5200	Ant1	0.91	0.24	1.15	11	Pass
NVNT	a	5240	Ant1	0.76	0.24	1.00	11	Pass
NVNT	n20	5180	Ant1	-0.57	0.28	-0.29	11	Pass
NVNT	n20	5200	Ant1	0.22	0.28	0.50	11	Pass
NVNT	n20	5240	Ant1	-0.15	0.28	0.13	11	Pass
NVNT	n40	5190	Ant1	-4.07	0.45	-3.62	11	Pass
NVNT	n40	5230	Ant1	-4.46	0.45	-4.01	11	Pass
NVNT	ac20	5180	Ant1	-0.72	0.28	-0.44	11	Pass
NVNT	ac20	5200	Ant1	0.33	0.28	0.61	11	Pass
NVNT	ac20	5240	Ant1	-0.82	0.28	-0.54	11	Pass
NVNT	ac40	5190	Ant1	-3.99	0.45	-3.54	11	Pass
NVNT	ac40	5230	Ant1	-4.75	0.45	-4.30	11	Pass
NVNT	ac80	5210	Ant1	-8.46	0.65	-7.81	11	Pass





MIMO

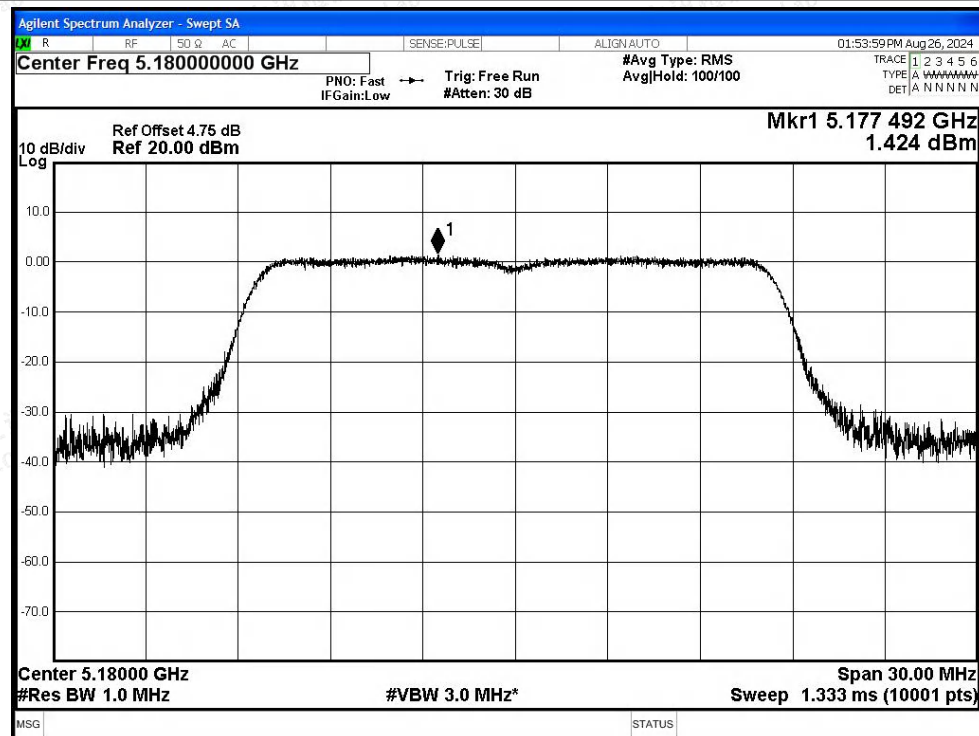
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			IC Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	0.83	-0.29	3.32	10	Pass
NVNT	n20	5200	0.67	0.50	3.60	10	Pass
NVNT	n20	5240	0.00	0.13	3.08	10	Pass
NVNT	n40	5190	-2.25	-3.62	0.13	10	Pass
NVNT	n40	5230	-2.75	-4.01	-0.32	10	Pass
NVNT	ac20	5180	1.81	-0.44	3.84	10	Pass
NVNT	ac20	5200	0.61	0.61	3.62	10	Pass
NVNT	ac20	5240	1.21	-0.54	3.43	10	Pass
NVNT	ac40	5190	-2.14	-3.54	0.23	10	Pass
NVNT	ac40	5230	-2.43	-4.30	-0.25	10	Pass
NVNT	ac80	5210	-6.85	-7.81	-4.29	10	Pass



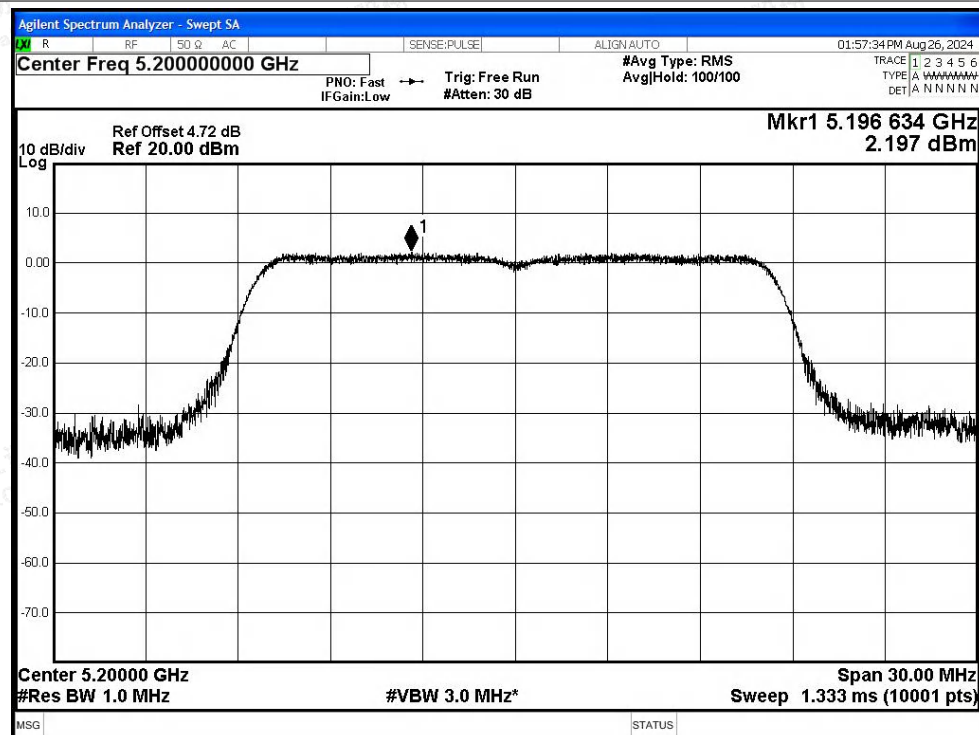


Test Graphs

PSD NVNT a 5180MHz Ant0



PSD NVNT a 5200MHz Ant0

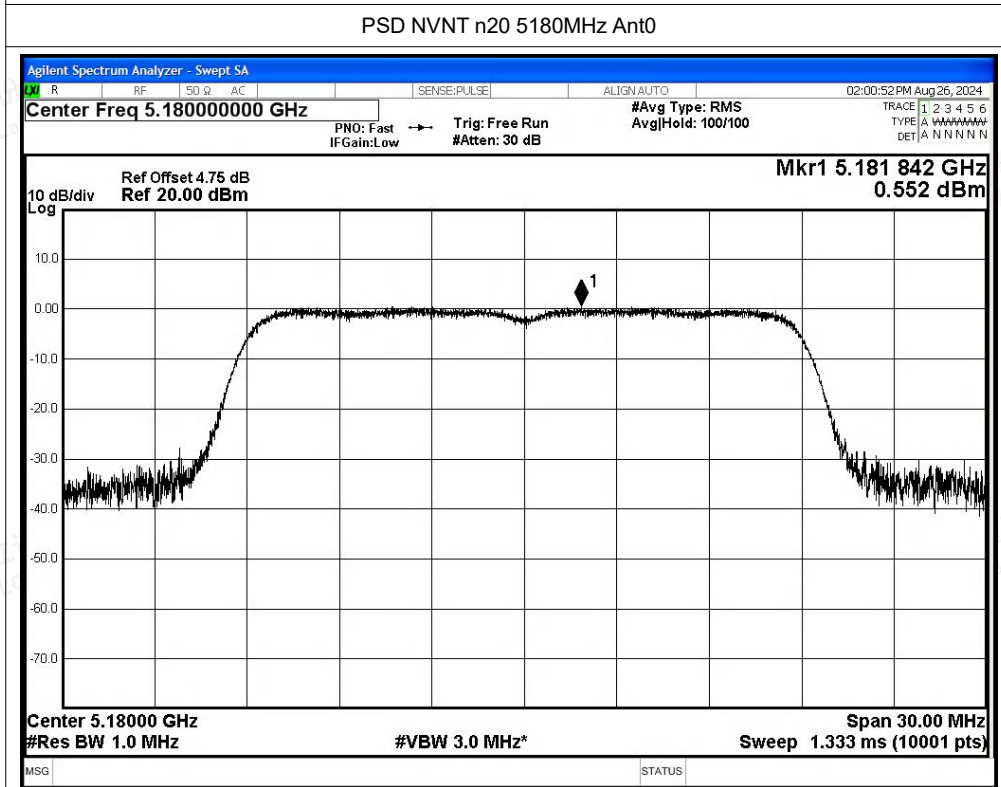
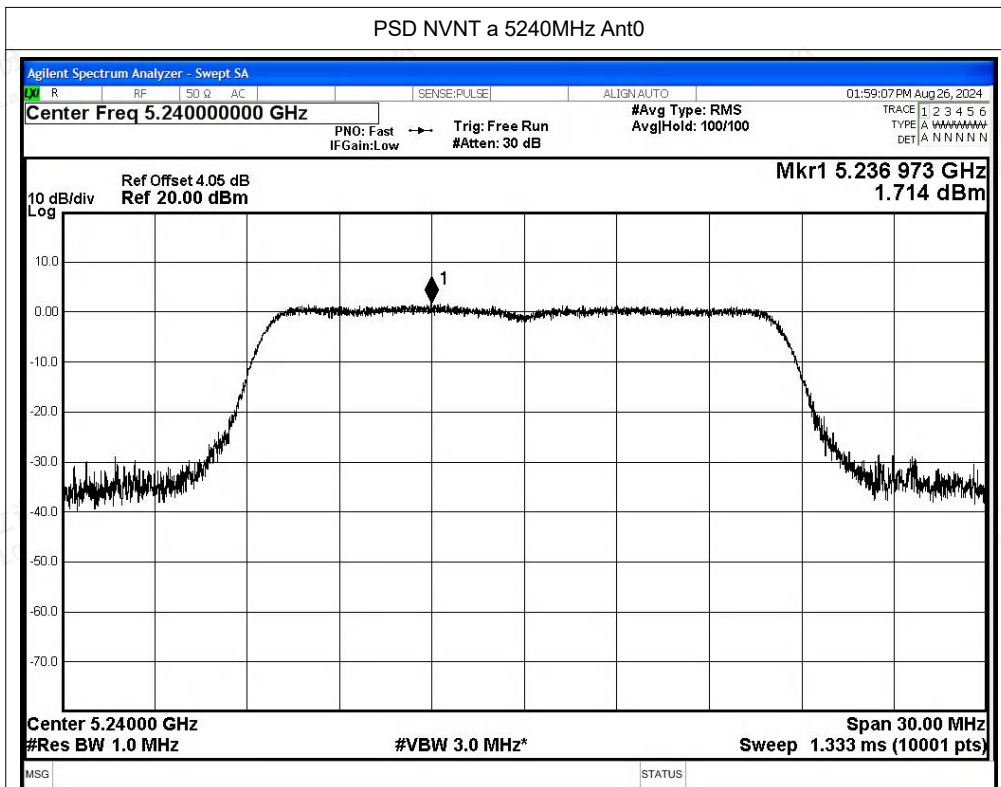


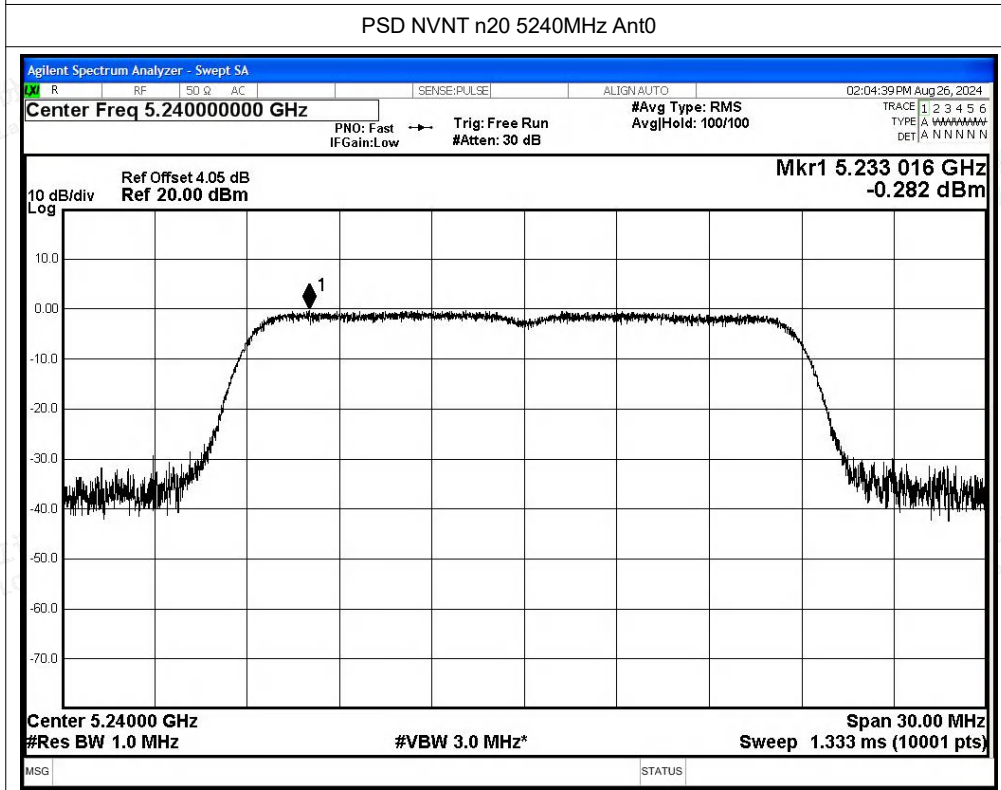
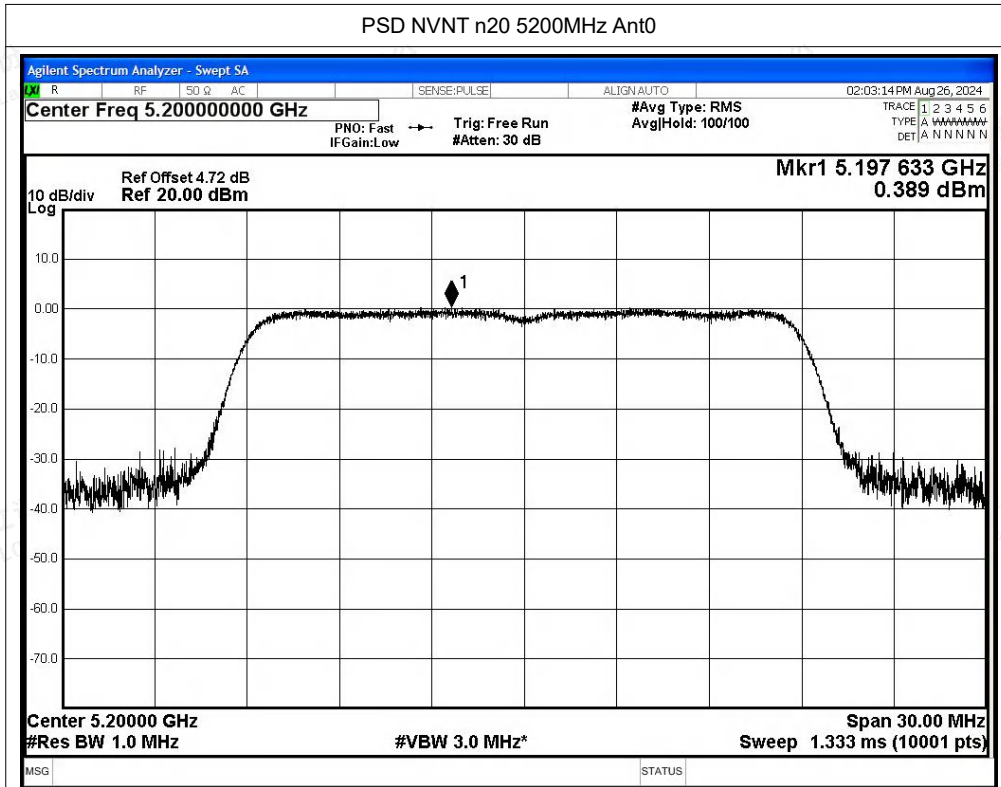
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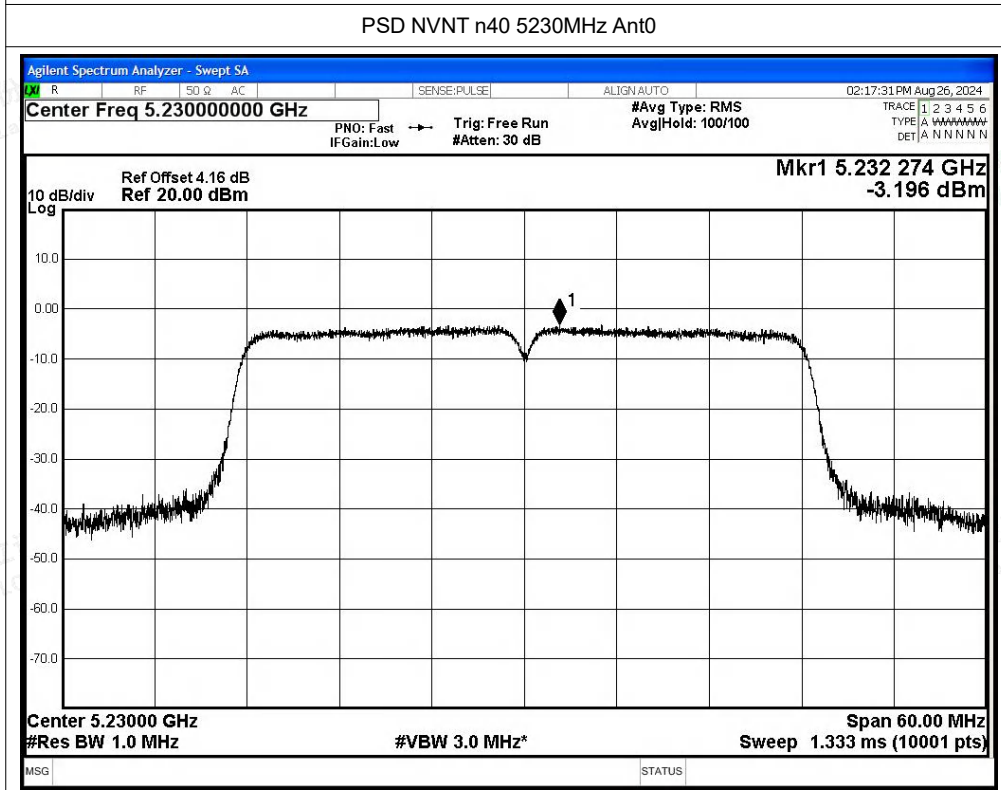
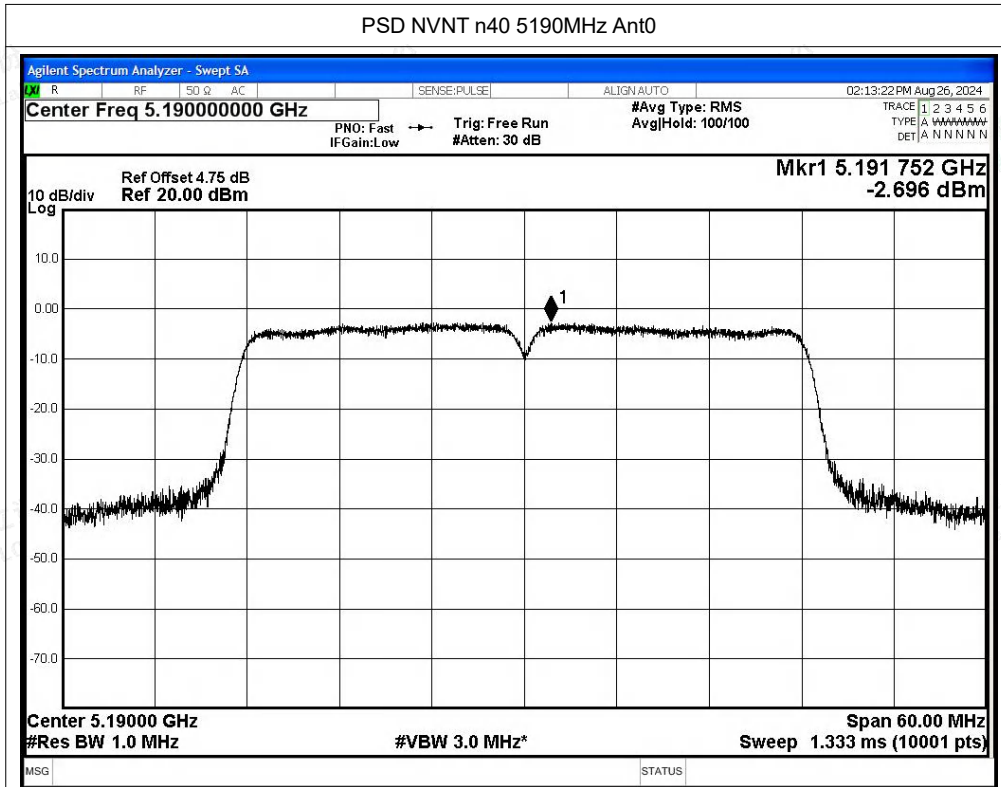
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

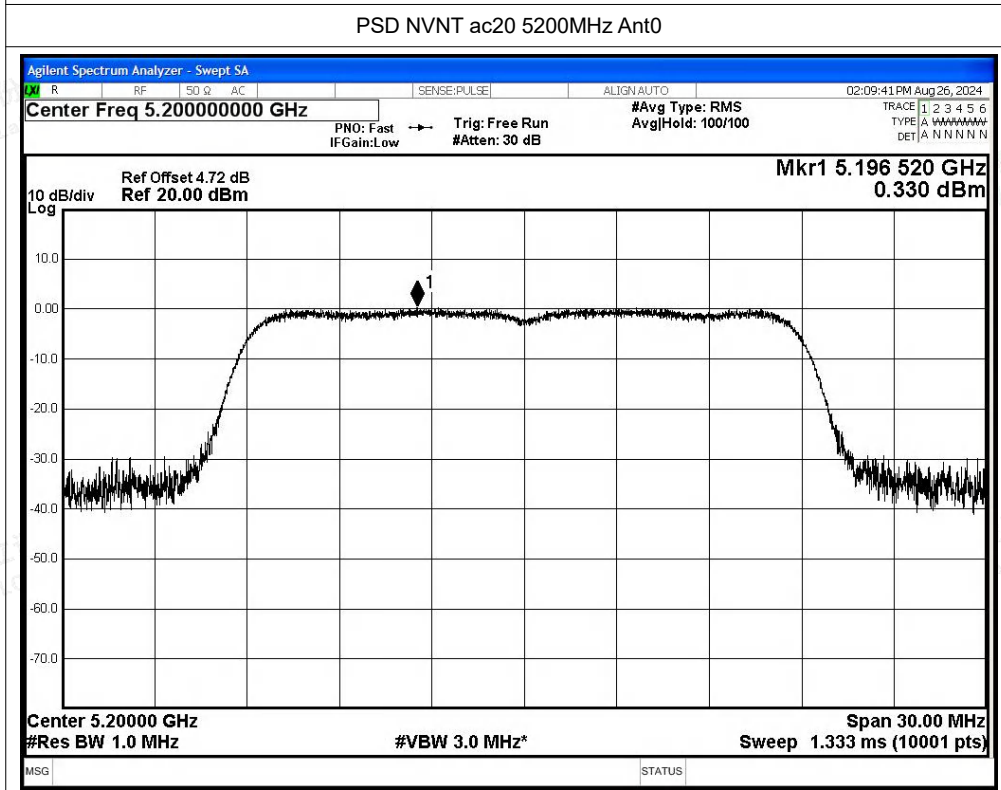
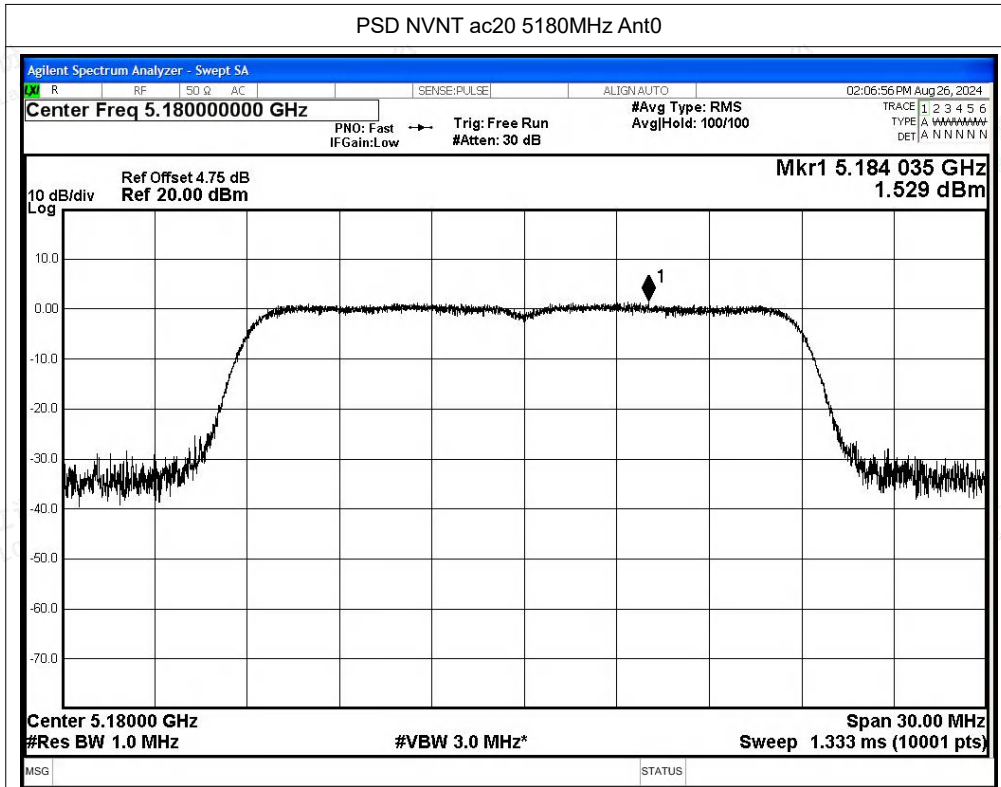
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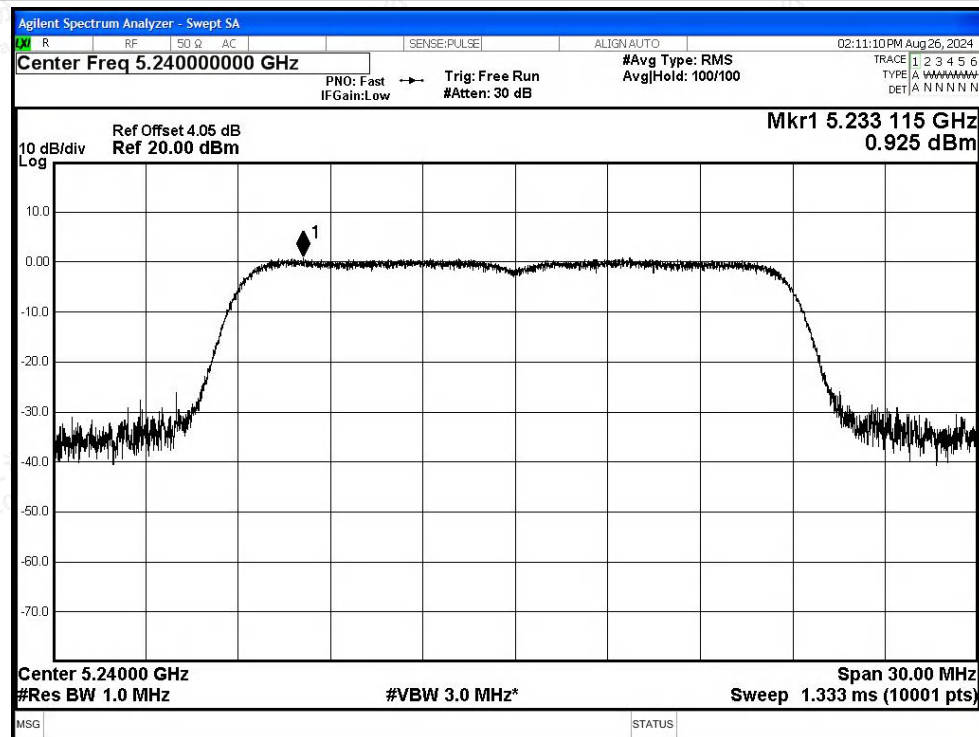




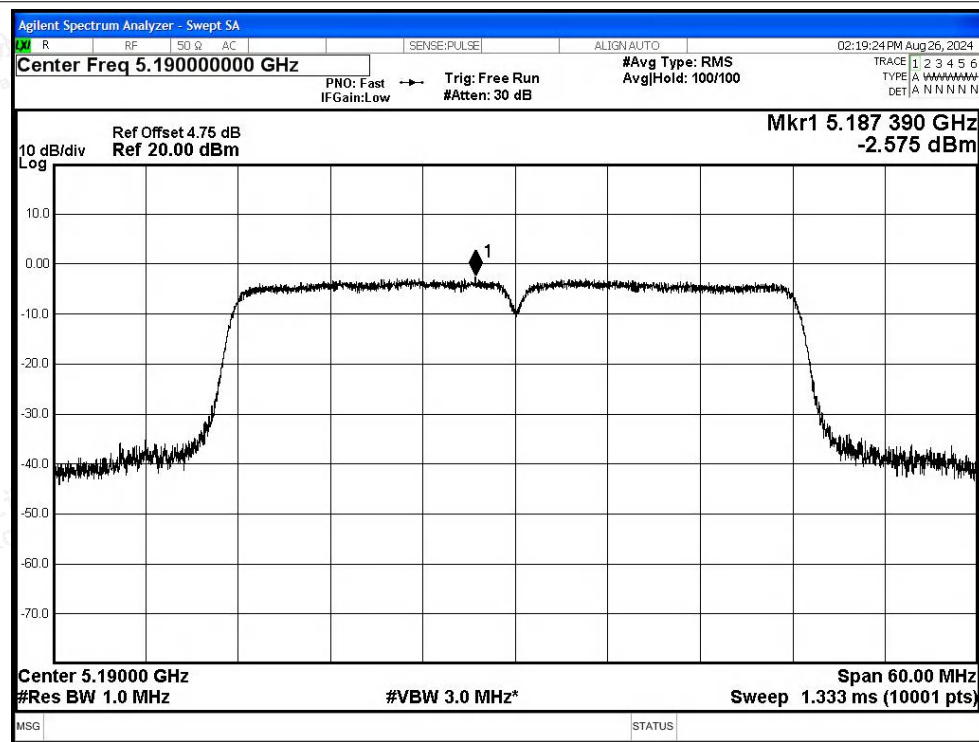


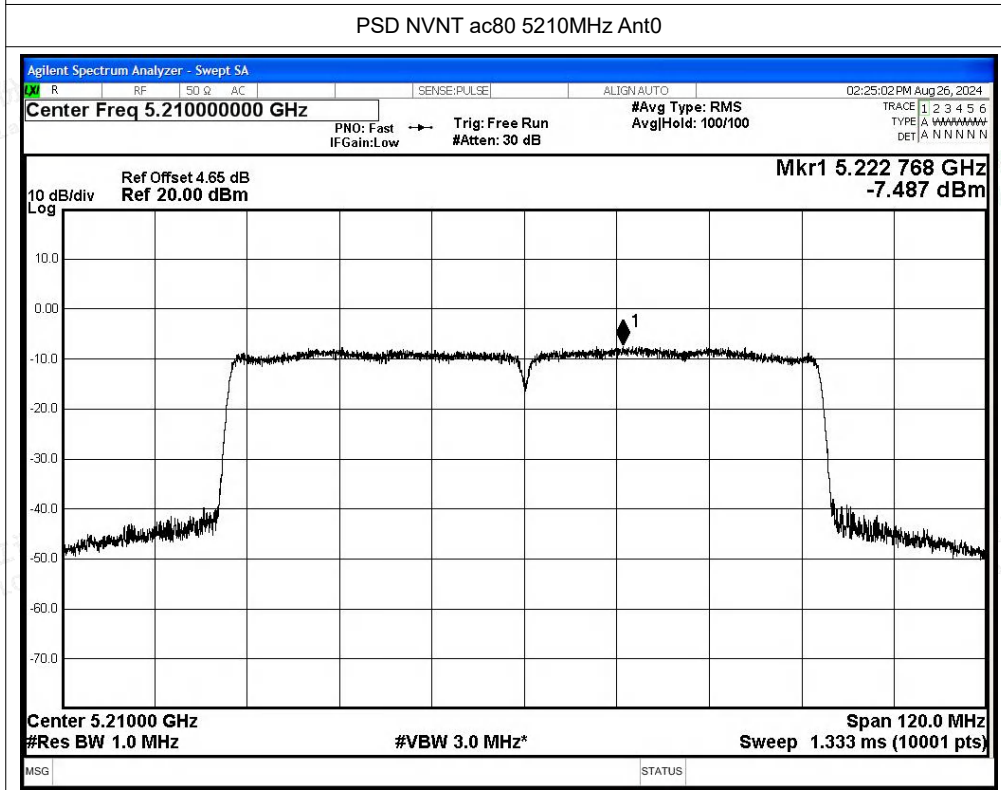
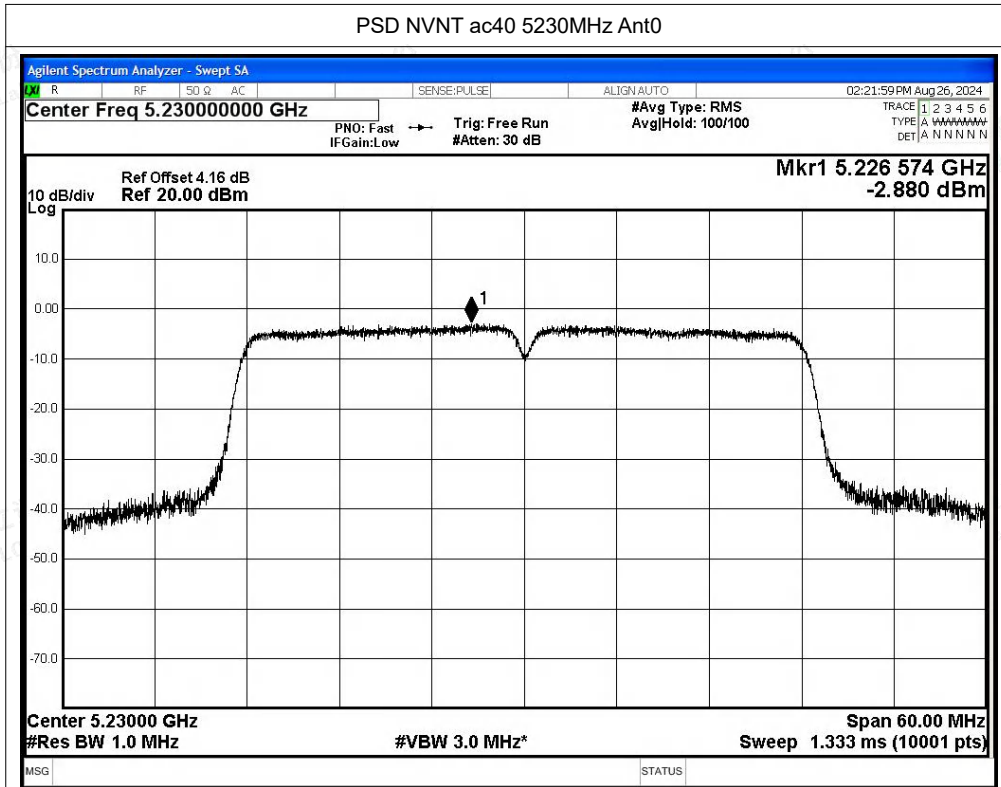


PSD NVNT ac20 5240MHz Ant0



PSD NVNT ac40 5190MHz Ant0

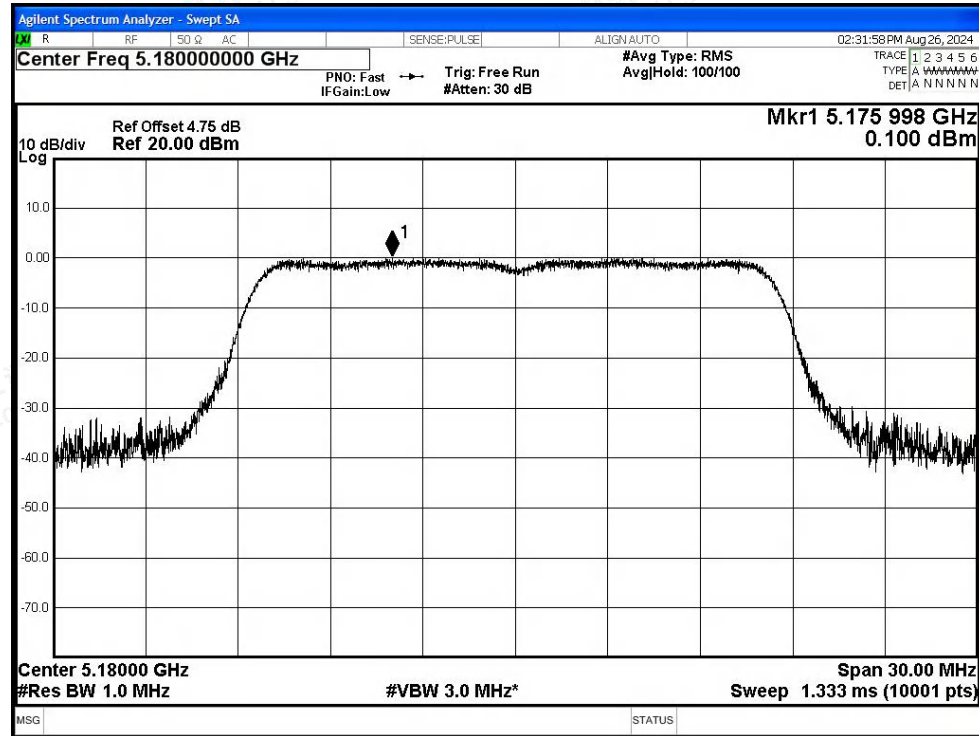




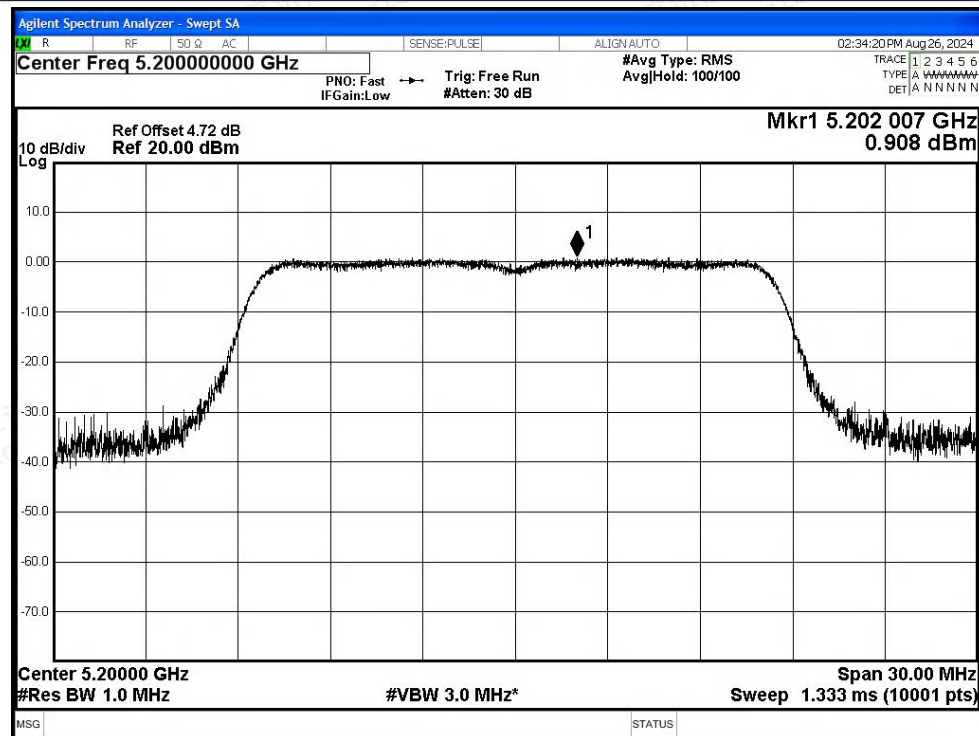


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



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