



Appendix C

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: 4K Projector

Test Model: KJM-125A

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu



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C.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	28.977	--	Pass
NVNT	a	5200	Ant1	28.034	--	Pass
NVNT	a	5240	Ant1	26.813	--	Pass
NVNT	n20	5180	Ant1	25.674	--	Pass
NVNT	n20	5200	Ant1	25.653	--	Pass
NVNT	n20	5240	Ant1	25.087	--	Pass
NVNT	n40	5190	Ant1	56.457	--	Pass
NVNT	n40	5230	Ant1	59.901	--	Pass
NVNT	ac20	5180	Ant1	24.867	--	Pass
NVNT	ac20	5200	Ant1	24.764	--	Pass
NVNT	ac20	5240	Ant1	24.486	--	Pass
NVNT	ac40	5190	Ant1	53.849	--	Pass
NVNT	ac40	5230	Ant1	53.639	--	Pass
NVNT	ac80	5210	Ant1	119.342	--	Pass

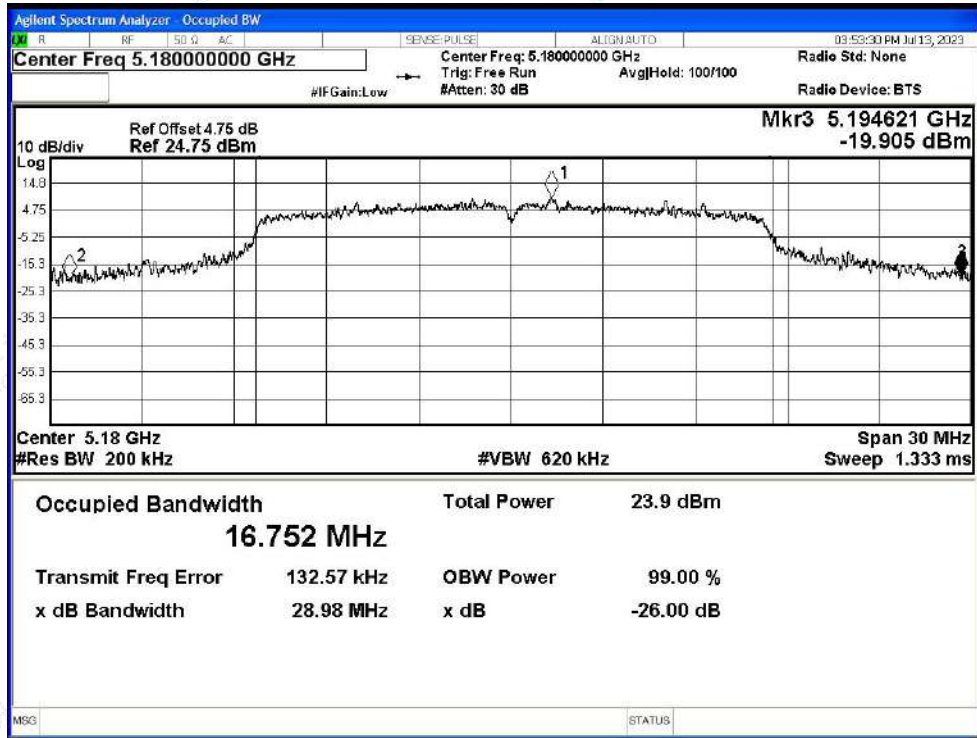


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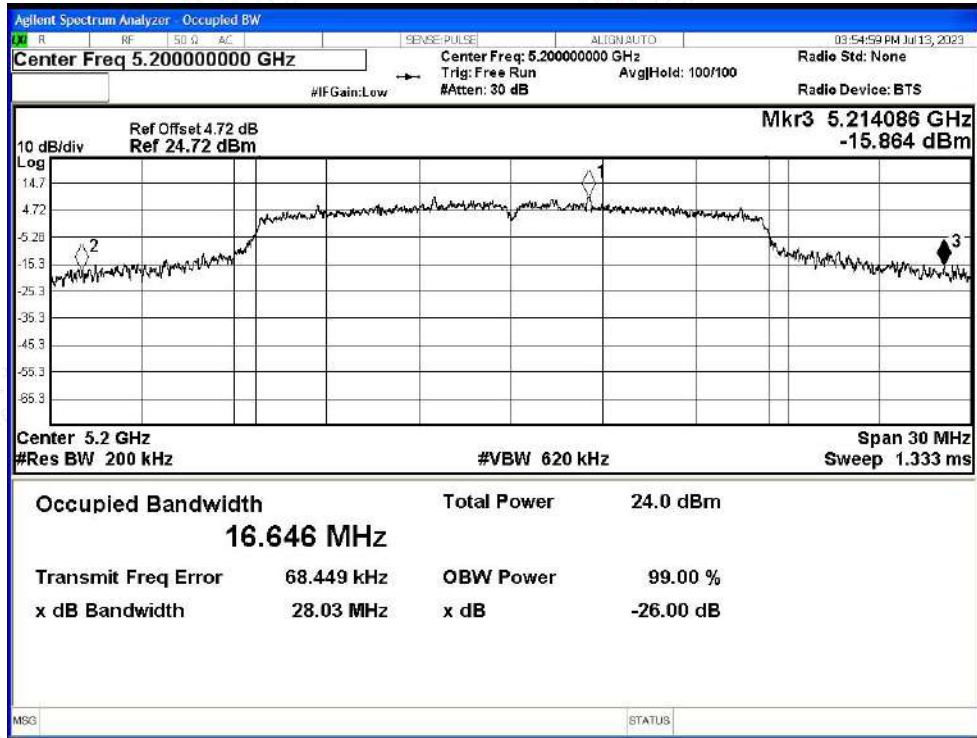


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

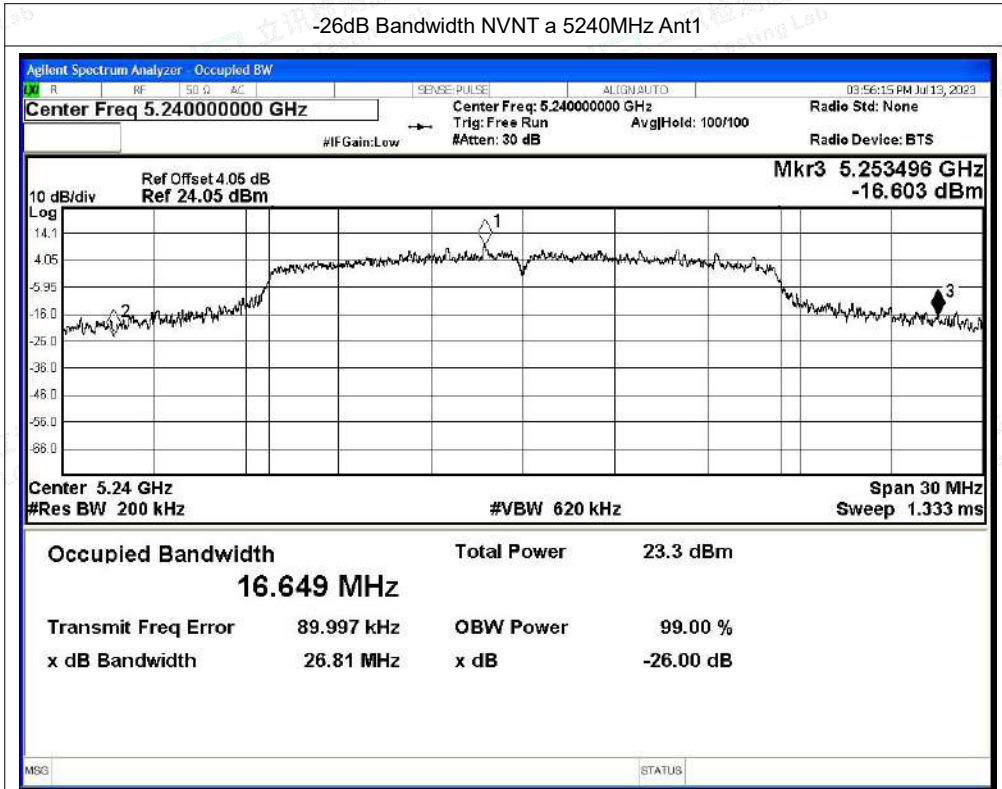


-26dB Bandwidth NVNT a 5200MHz Ant1

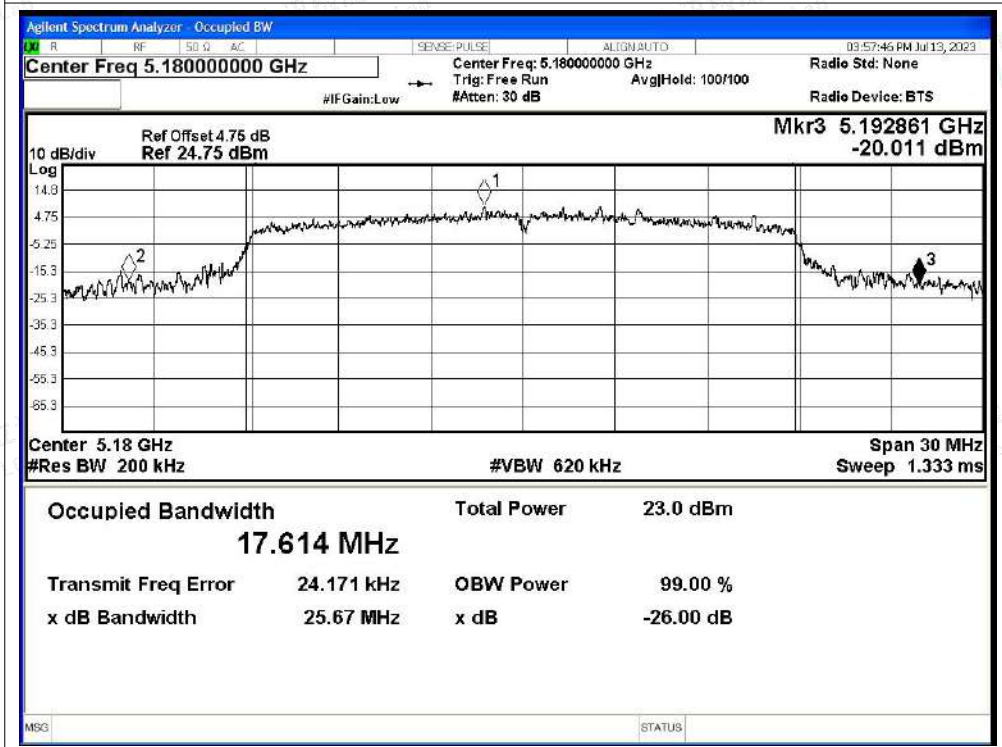




-26dB Bandwidth NVNT a 5240MHz Ant1

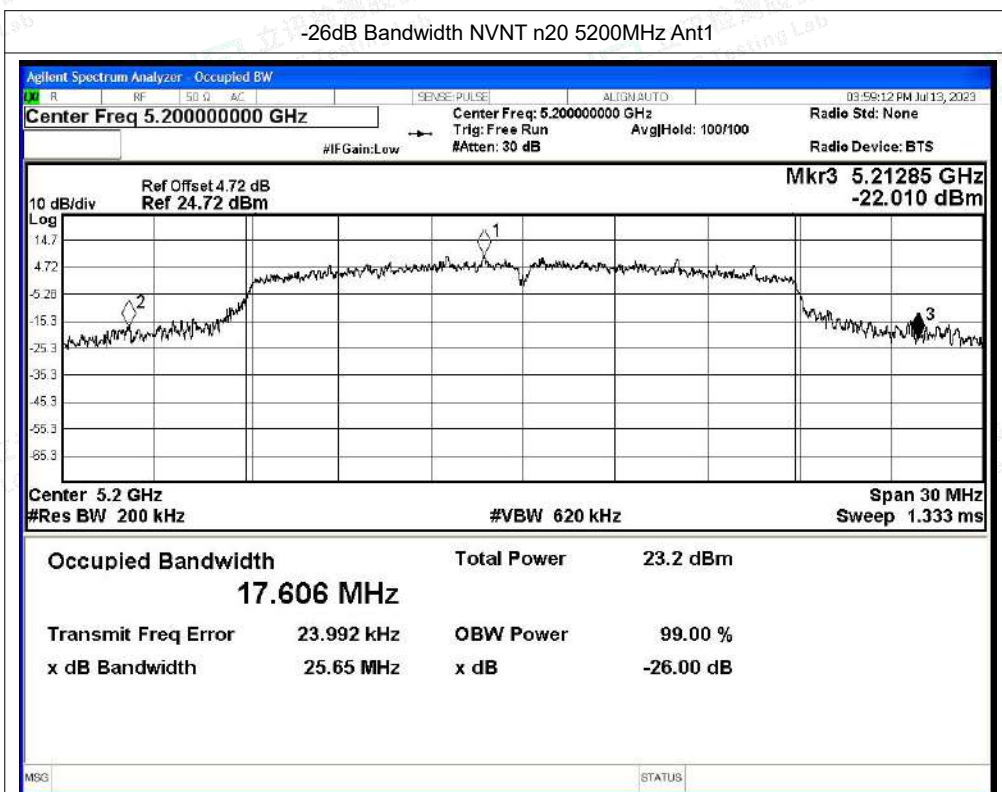


-26dB Bandwidth NVNT n20 5180MHz Ant1

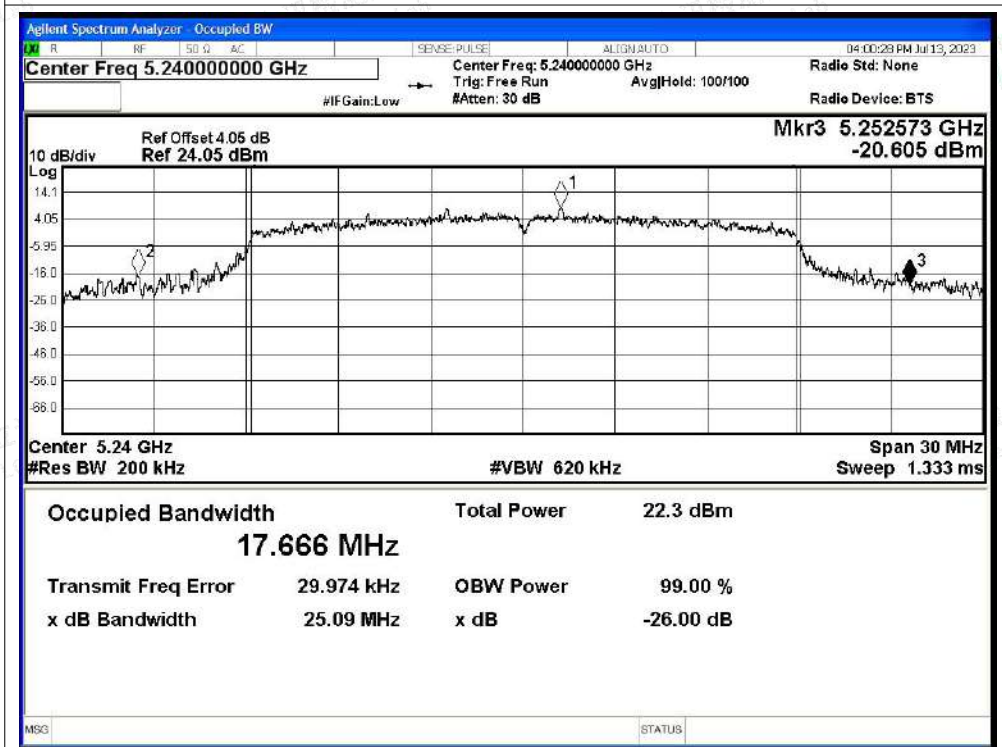




-26dB Bandwidth NVNT n20 5200MHz Ant1

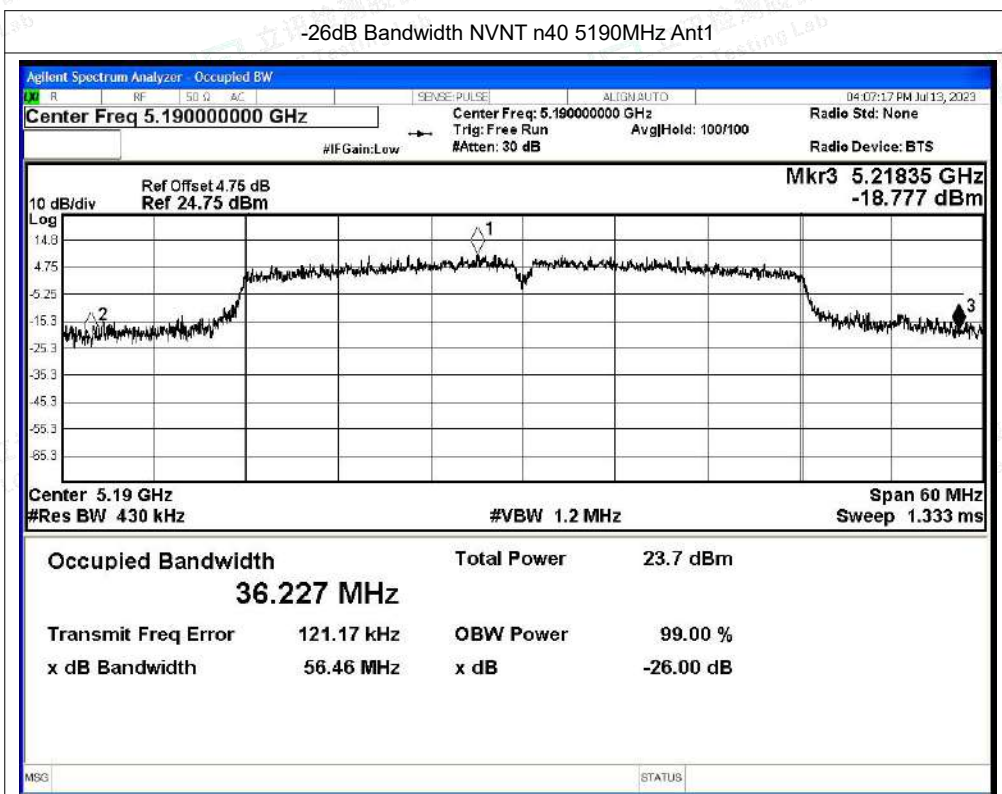


-26dB Bandwidth NVNT n20 5240MHz Ant1

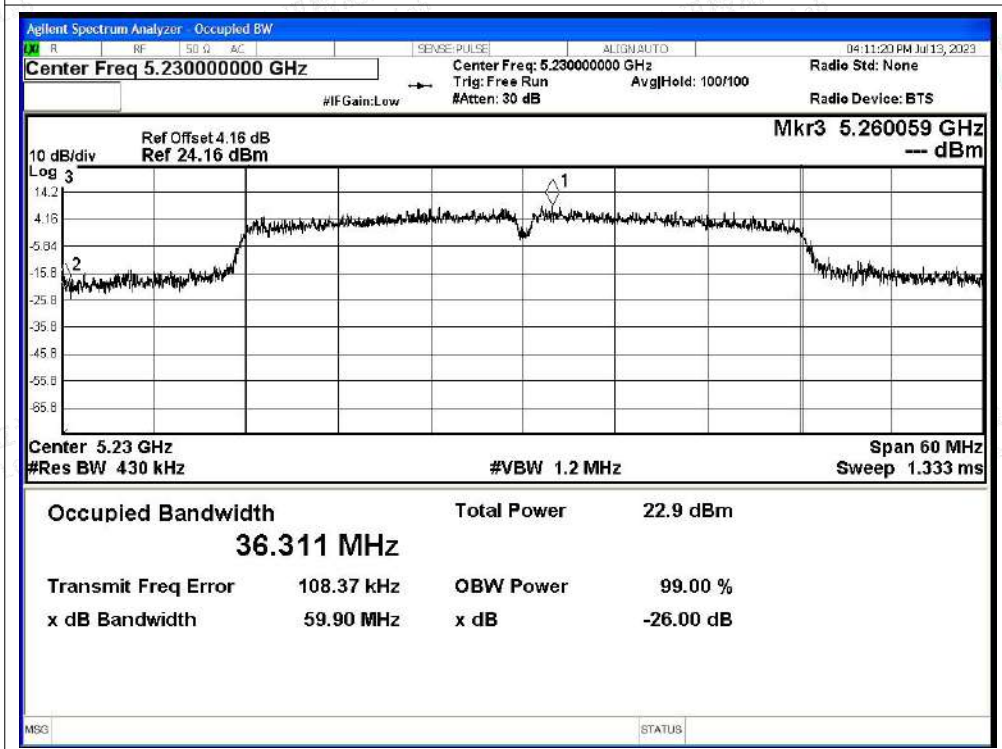




-26dB Bandwidth NVNT n40 5190MHz Ant1

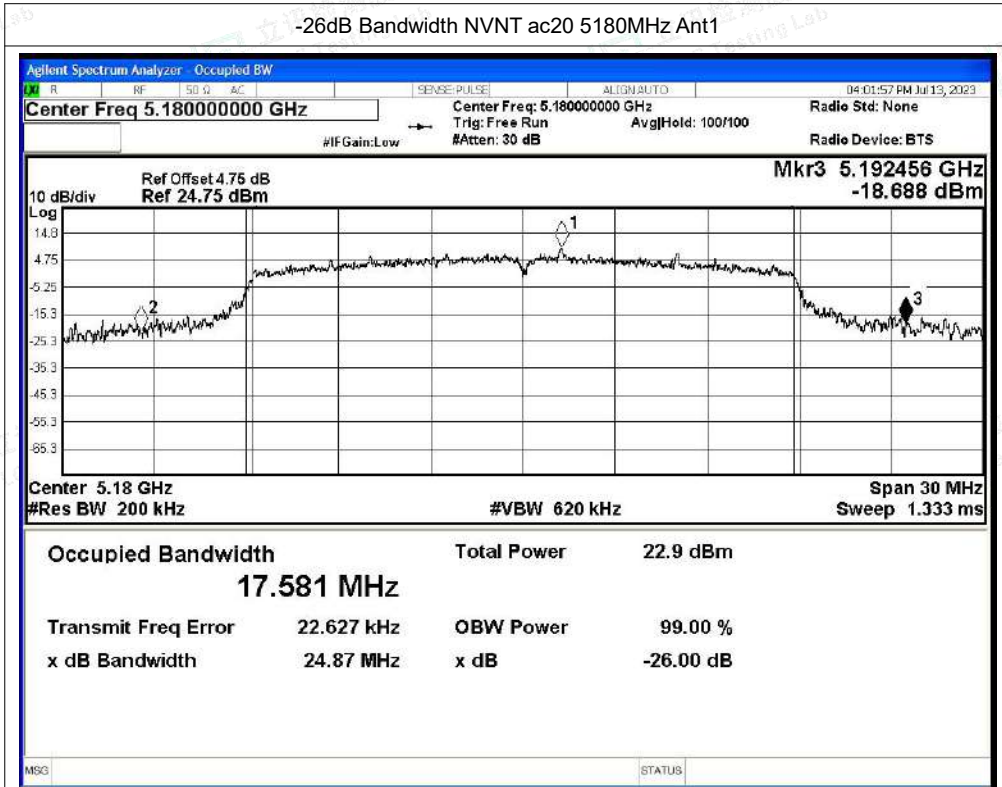


-26dB Bandwidth NVNT n40 5230MHz Ant1

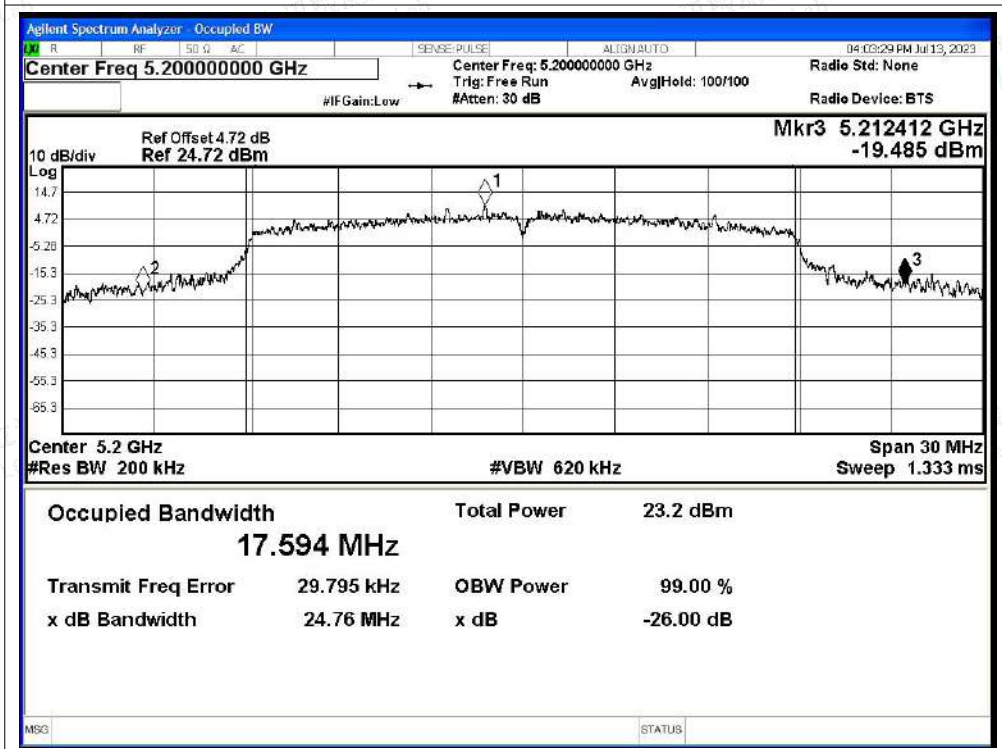




-26dB Bandwidth NVNT ac20 5180MHz Ant1

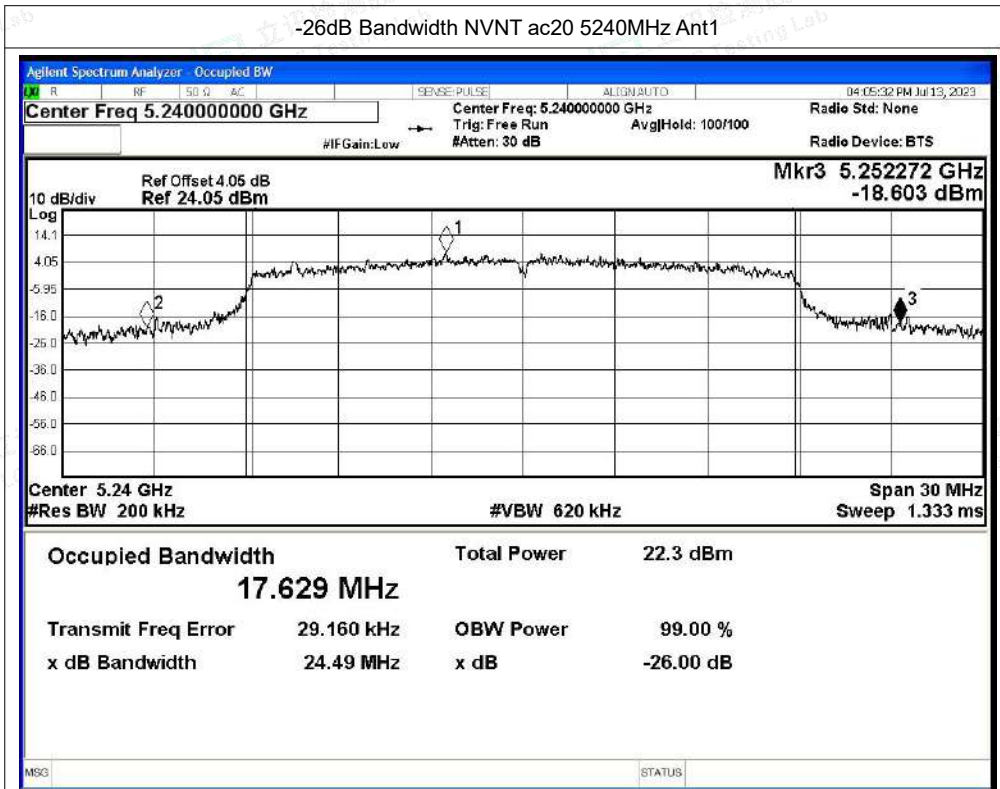


-26dB Bandwidth NVNT ac20 5200MHz Ant1

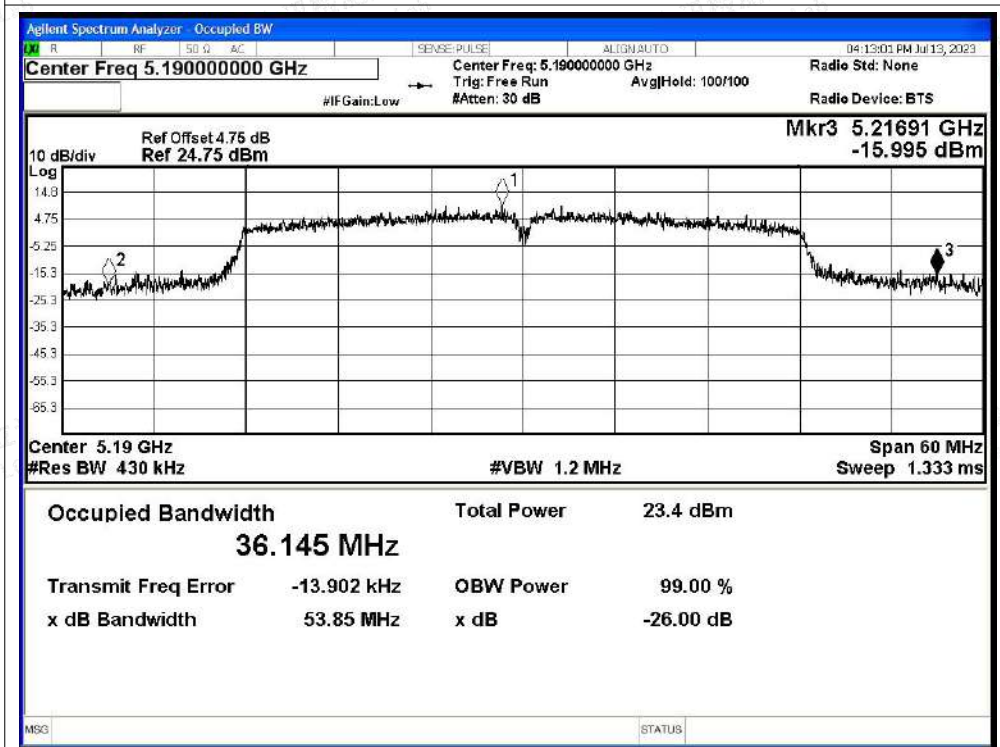




-26dB Bandwidth NVNT ac20 5240MHz Ant1

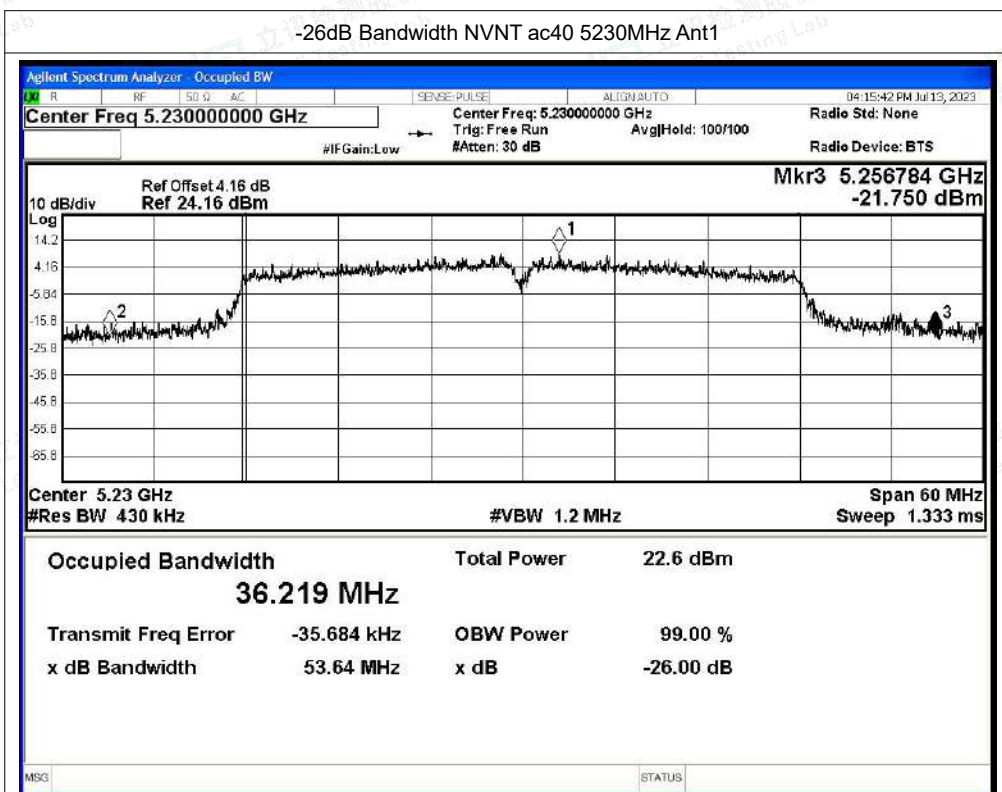


-26dB Bandwidth NVNT ac40 5190MHz Ant1

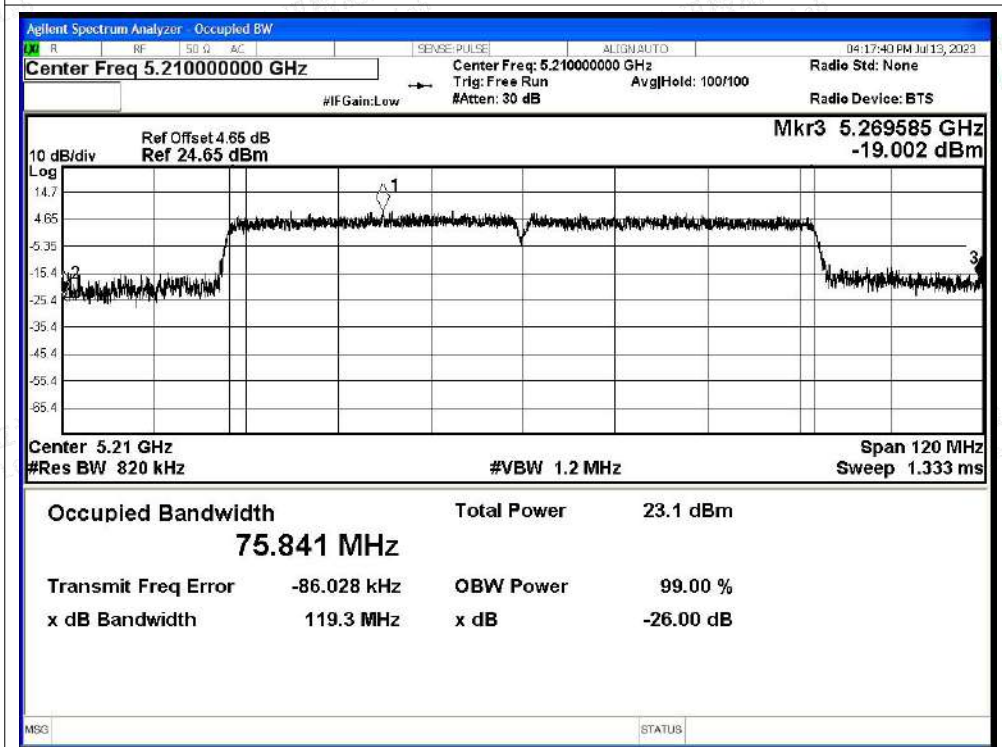




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	19.02	24	Pass
NVNT	a	5200	Ant1	19.48	24	Pass
NVNT	a	5240	Ant1	17.72	24	Pass
NVNT	n20	5180	Ant1	17.82	24	Pass
NVNT	n20	5200	Ant1	18.39	24	Pass
NVNT	n20	5240	Ant1	17.09	24	Pass
NVNT	n40	5190	Ant1	18.47	24	Pass
NVNT	n40	5230	Ant1	17.20	24	Pass
NVNT	ac20	5180	Ant1	17.94	24	Pass
NVNT	ac20	5200	Ant1	18.28	24	Pass
NVNT	ac20	5240	Ant1	17.52	24	Pass
NVNT	ac40	5190	Ant1	18.29	24	Pass
NVNT	ac40	5230	Ant1	17.69	24	Pass
NVNT	ac80	5210	Ant1	17.81	24	Pass



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.04	11	Pass
NVNT	a	5200	Ant1	10.51	11	Pass
NVNT	a	5240	Ant1	8.66	11	Pass
NVNT	n20	5180	Ant1	9.03	11	Pass
NVNT	n20	5200	Ant1	8.86	11	Pass
NVNT	n20	5240	Ant1	7.54	11	Pass
NVNT	n40	5190	Ant1	6.13	11	Pass
NVNT	n40	5230	Ant1	5.92	11	Pass
NVNT	ac20	5180	Ant1	8.84	11	Pass
NVNT	ac20	5200	Ant1	8.7	11	Pass
NVNT	ac20	5240	Ant1	8.65	11	Pass
NVNT	ac40	5190	Ant1	6.51	11	Pass
NVNT	ac40	5230	Ant1	5.43	11	Pass
NVNT	ac80	5210	Ant1	2.15	11	Pass

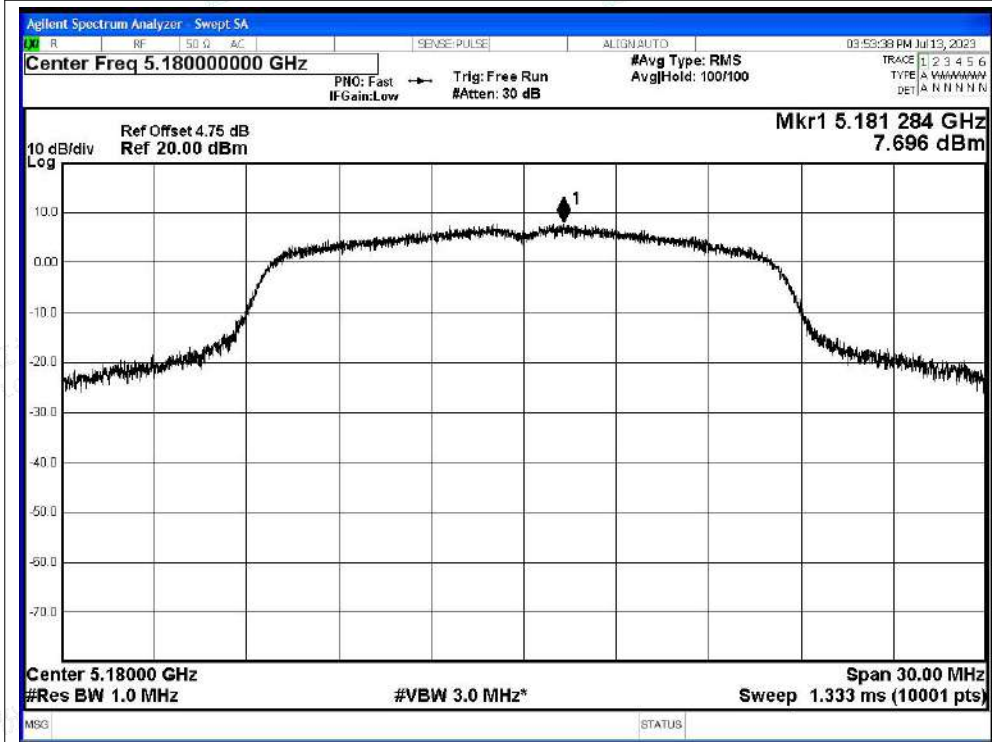


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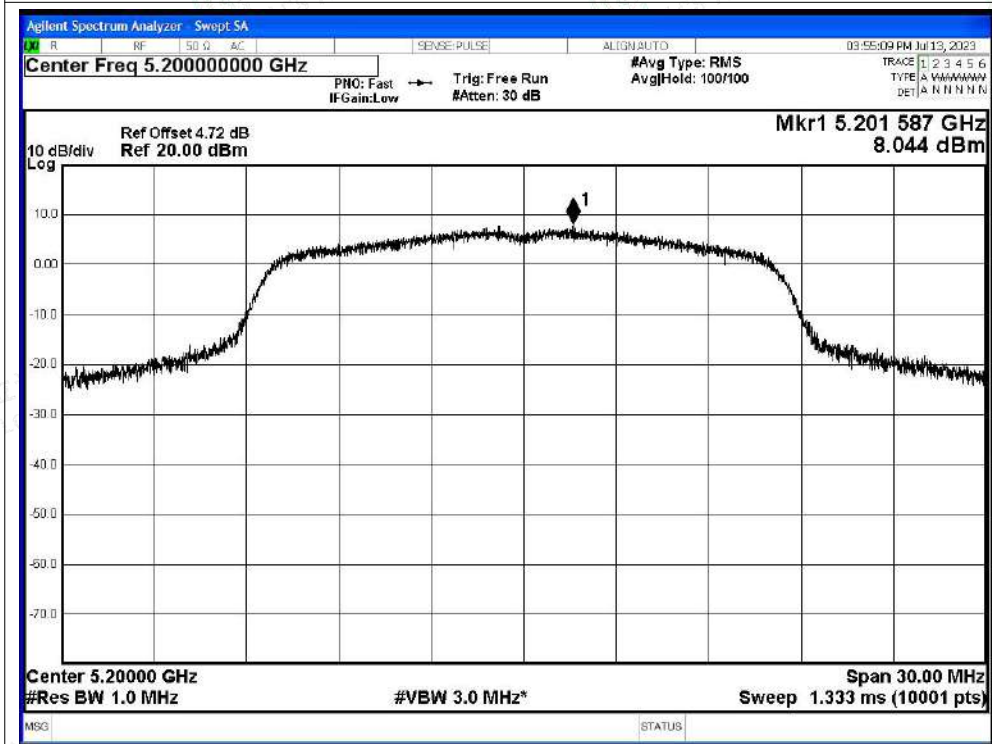


Test Graphs

PSD NVNT a 5180MHz Ant1

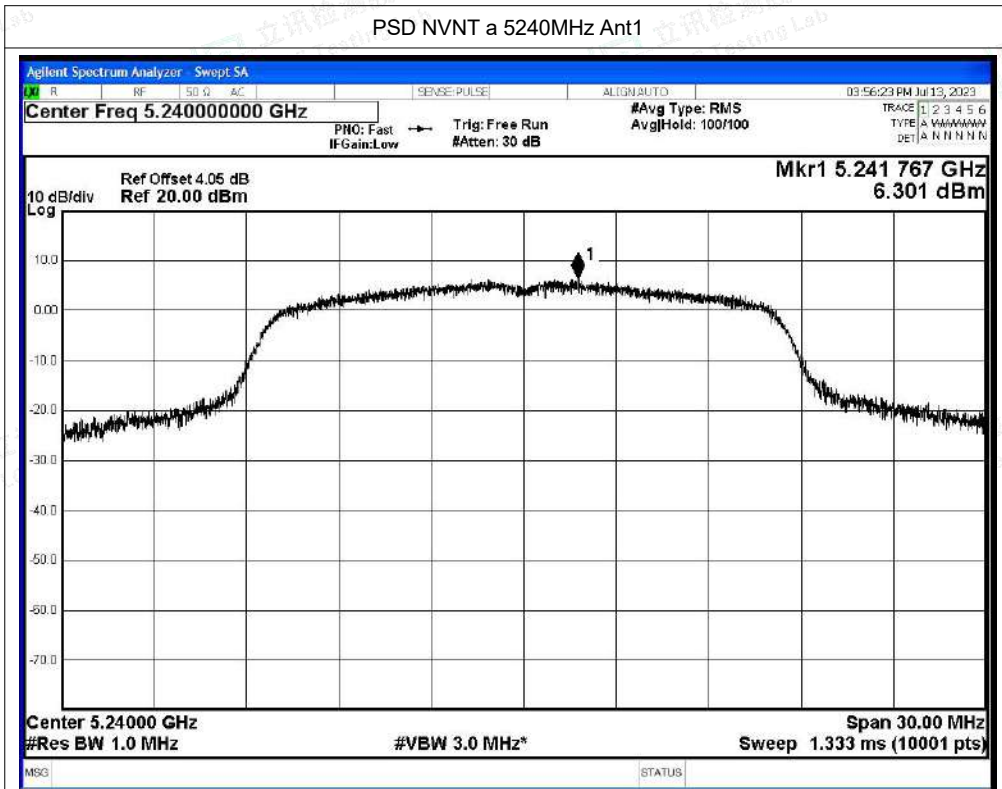


PSD NVNT a 5200MHz Ant1

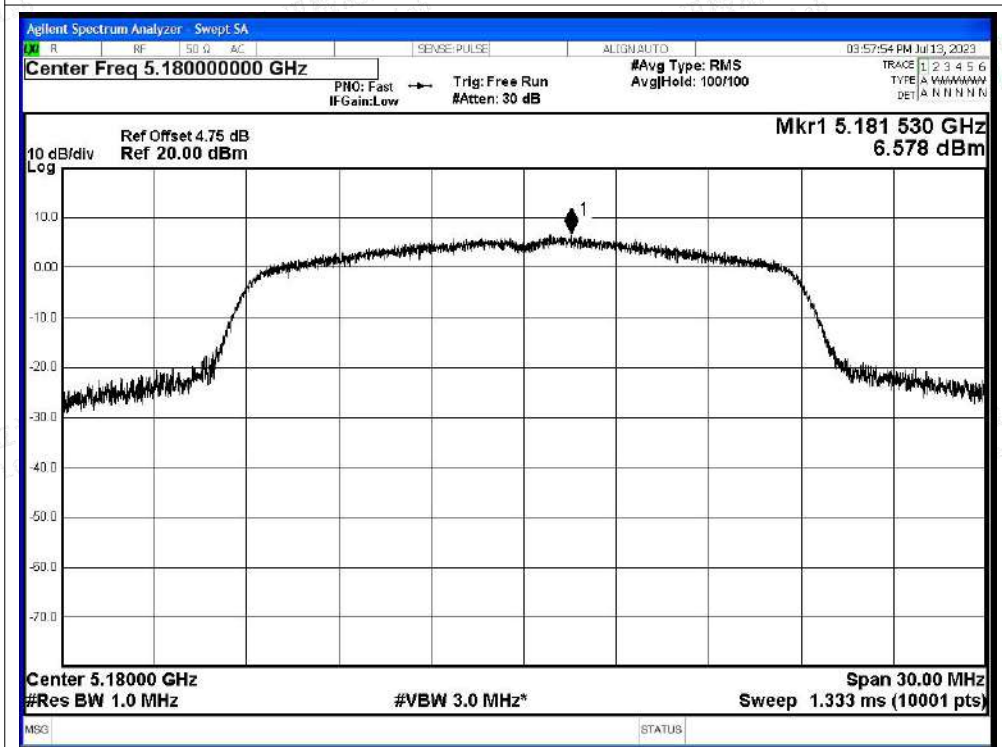


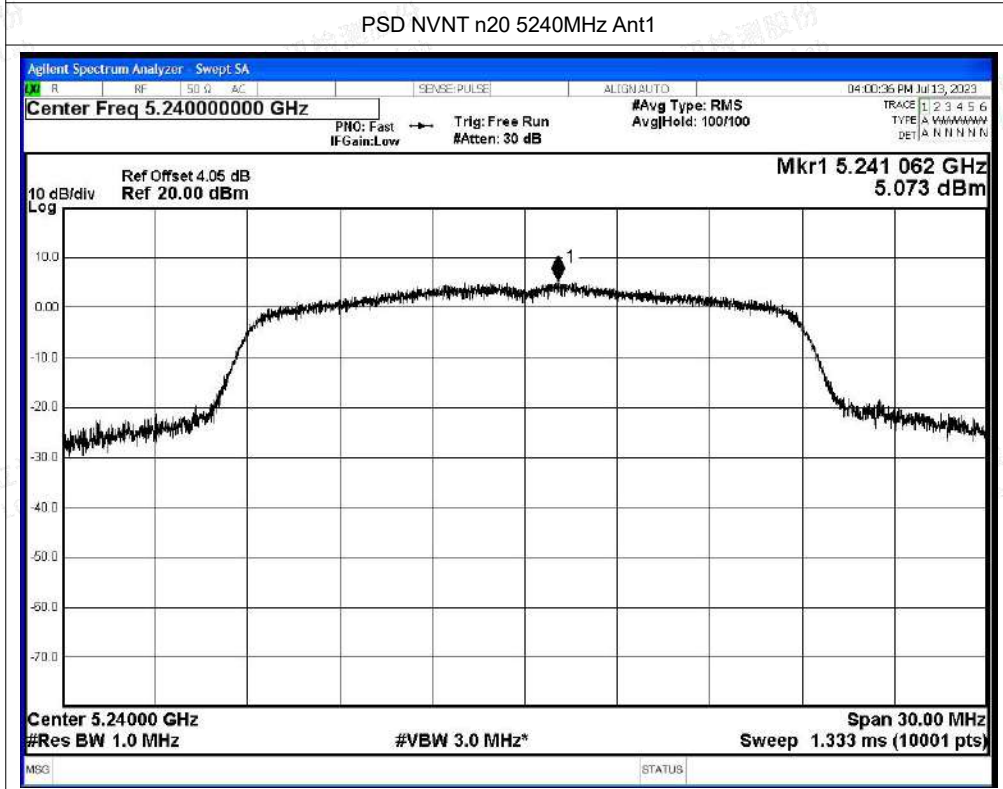
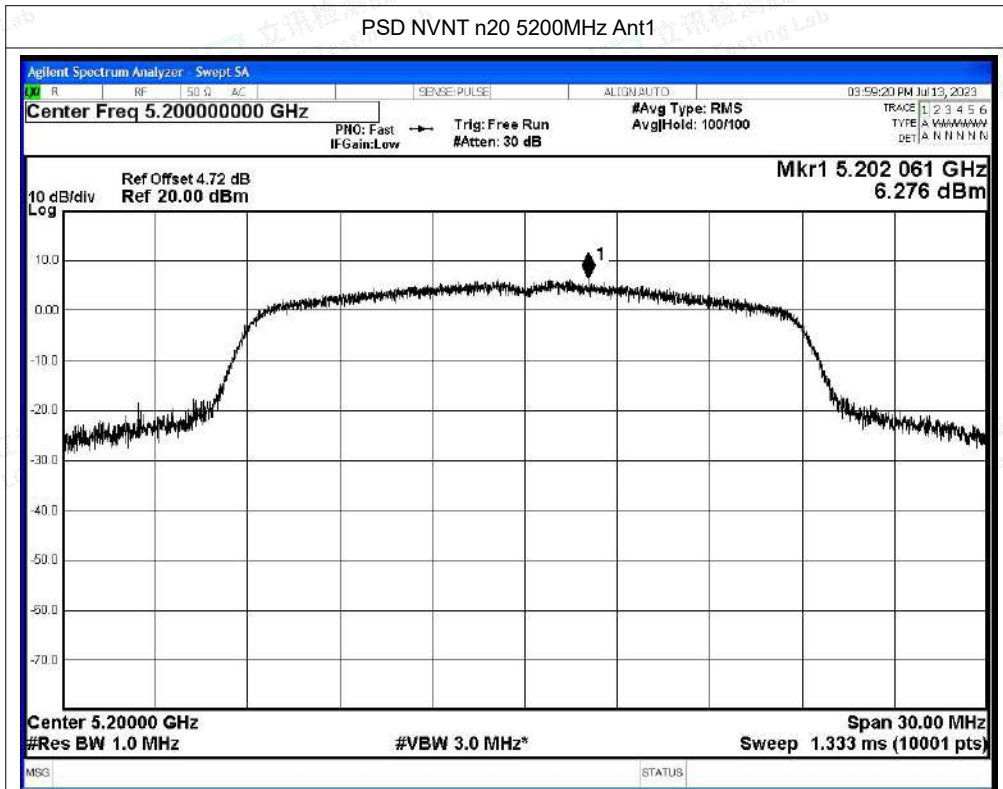


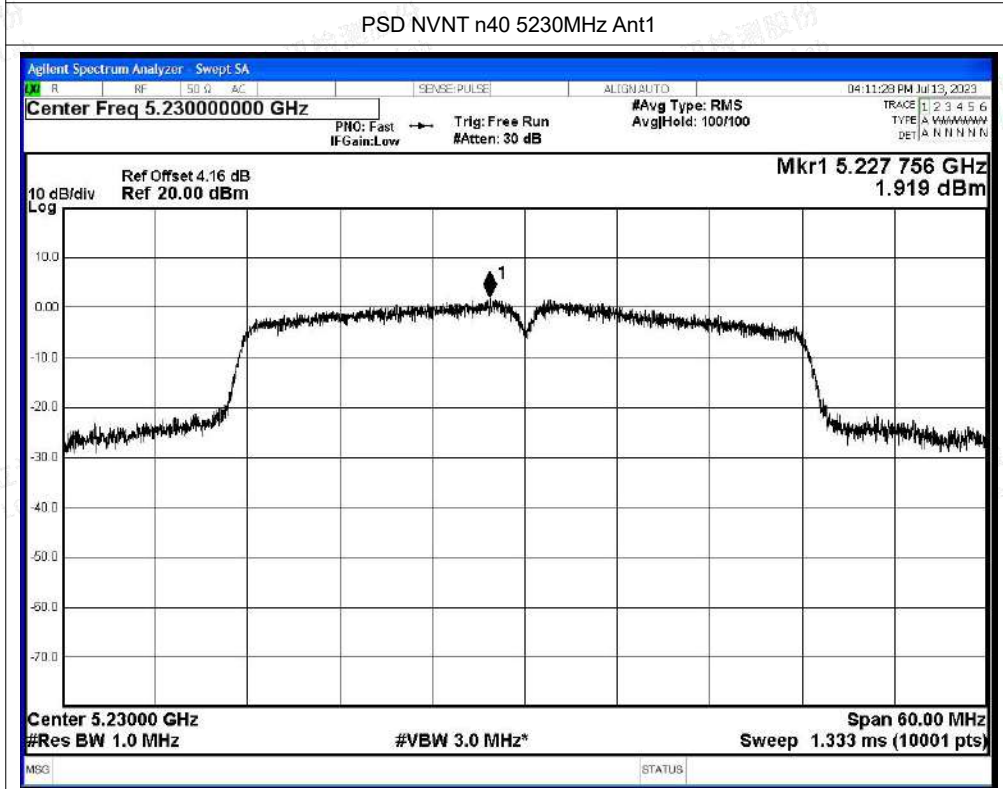
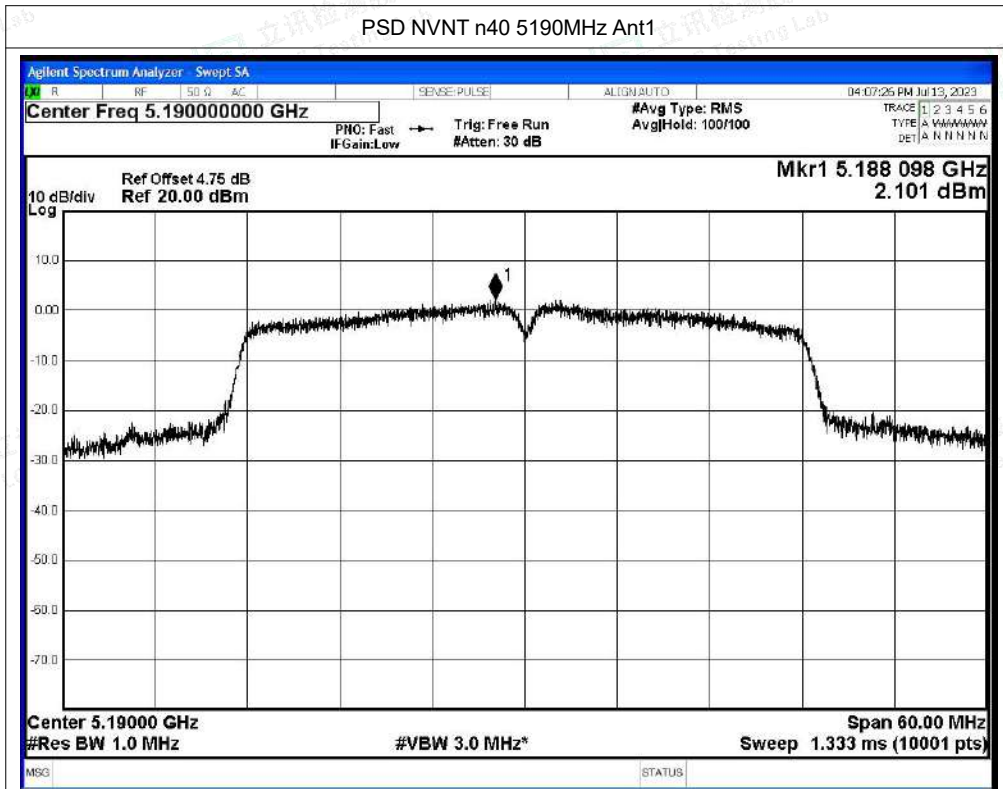
PSD NVNT a 5240MHz Ant1

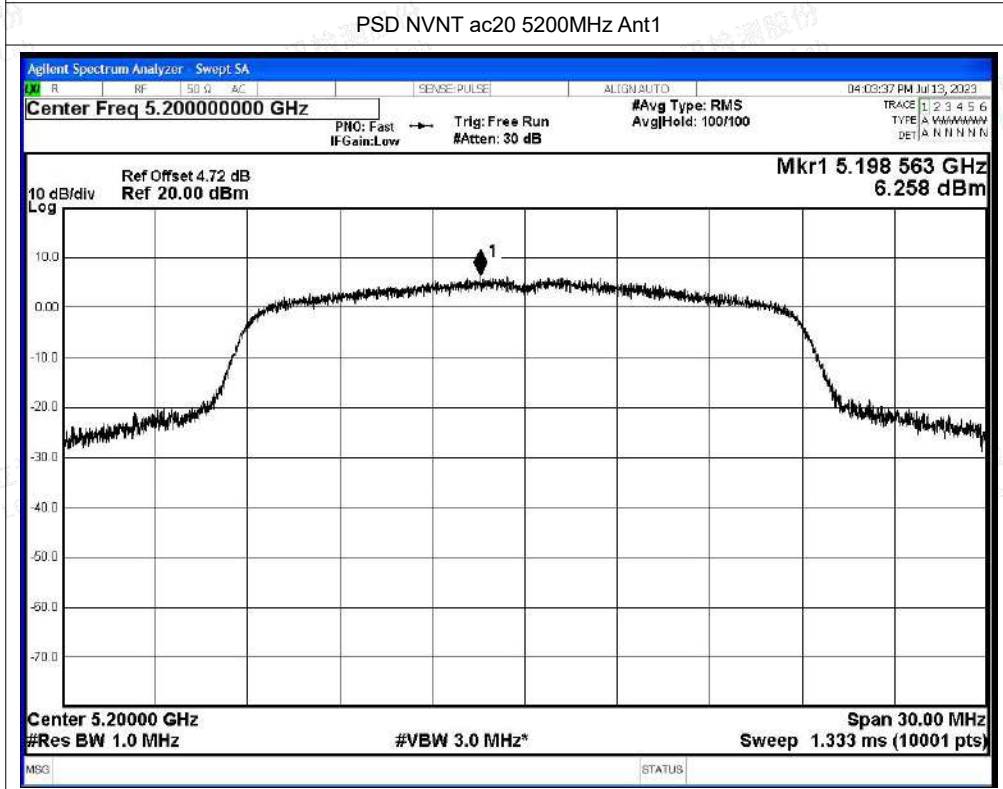
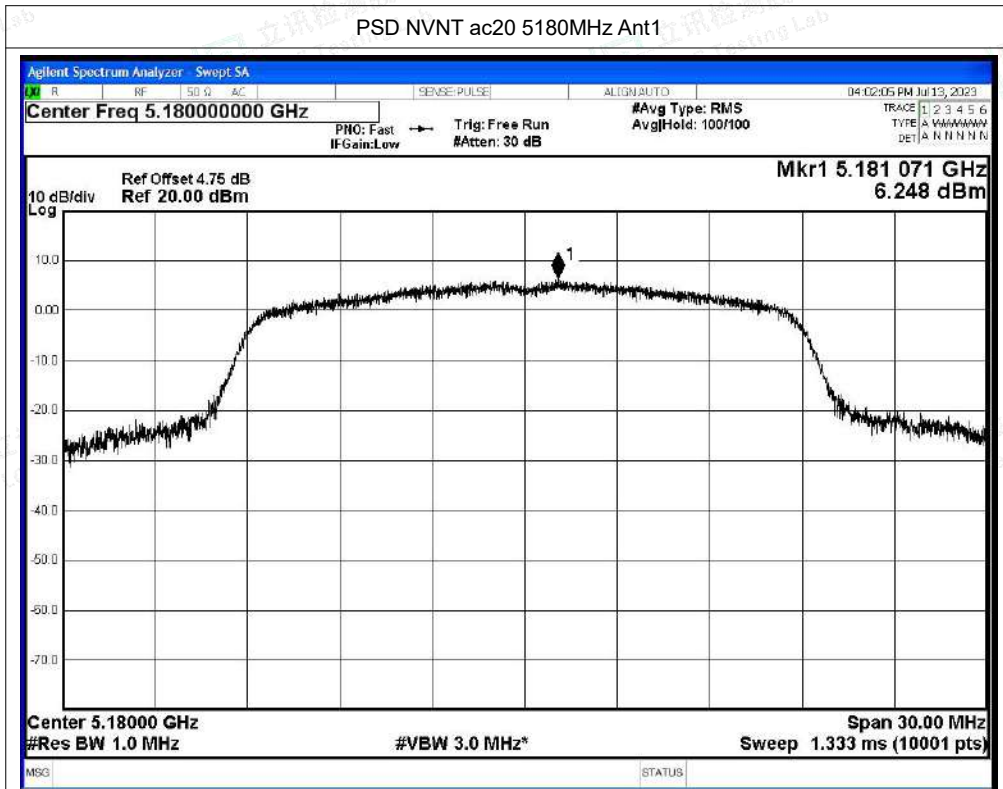


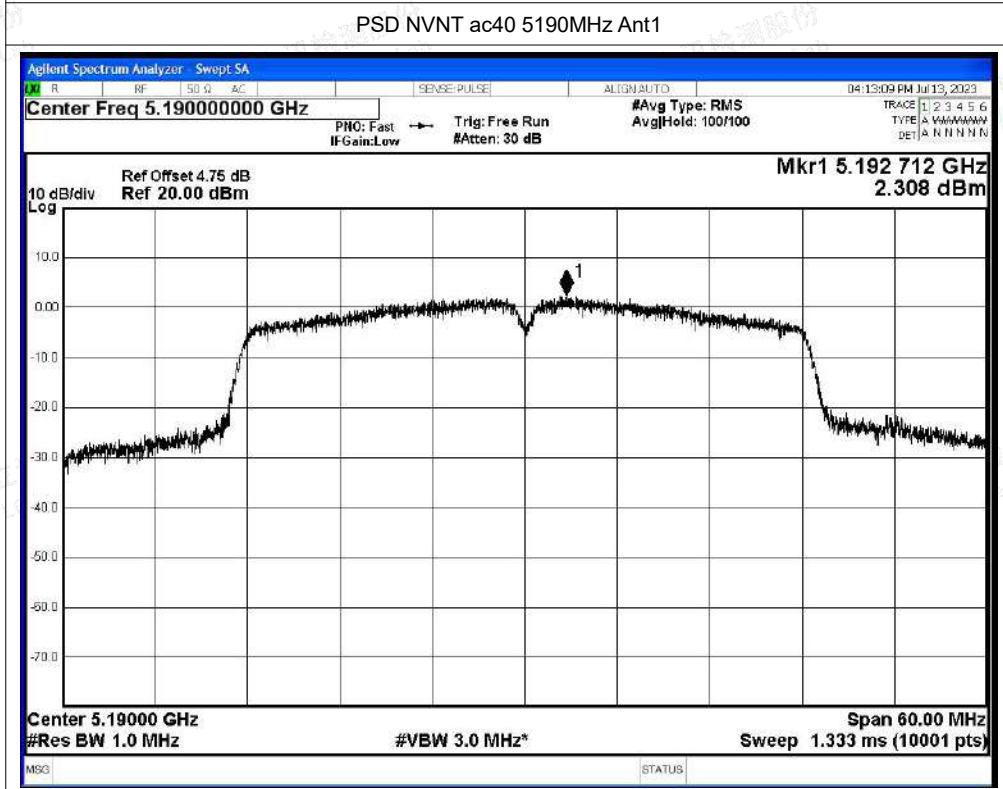
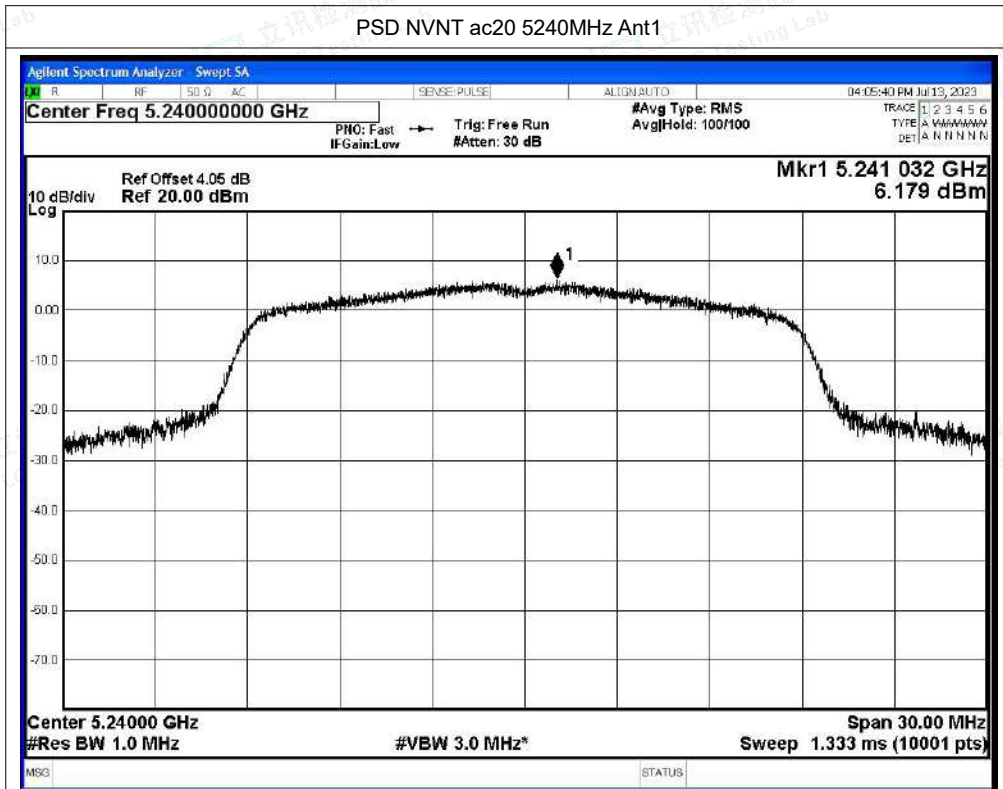
PSD NVNT n20 5180MHz Ant1

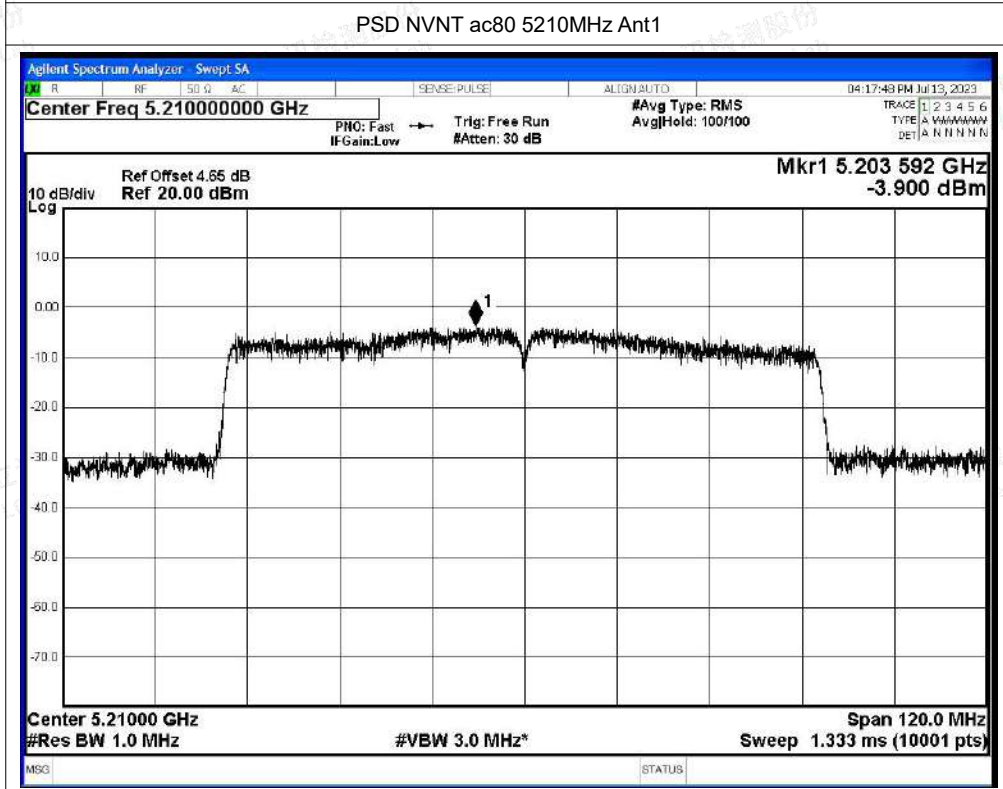
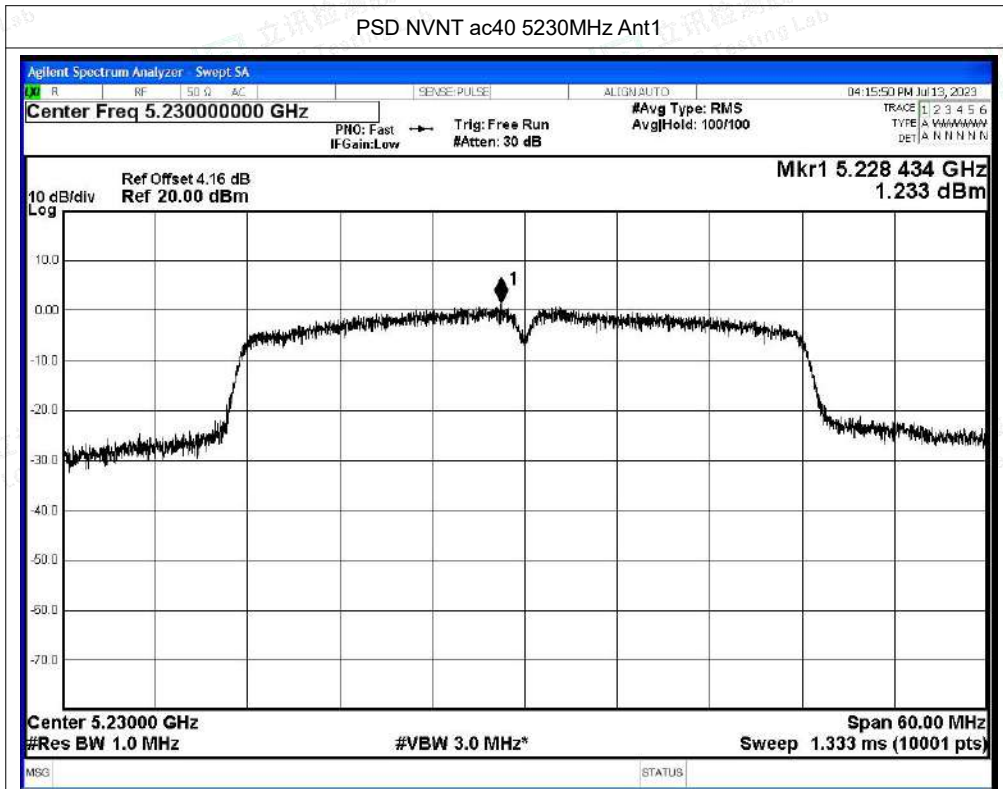














C.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-47.69	2.16	49.70	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-55.73	2.16	41.66	Average	54	Pass
NVNT	a	5180	Ant1	5121.6	-43.86	2.16	53.53	Peak	68.2	Pass
NVNT	a	5180	Ant1	5147.5	-53.87	2.16	43.52	Average	54	Pass
NVNT	a	5180	Ant1	5150	-47.13	2.16	50.26	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-53.82	2.16	43.57	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.16	2.16	48.23	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-55.6	2.16	41.79	Average	54	Pass
NVNT	a	5240	Ant1	5399.76	-44.11	2.16	53.28	Peak	68.2	Pass
NVNT	a	5240	Ant1	5371.44	-55.32	2.16	42.07	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.49	2.16	46.90	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-55.77	2.16	41.62	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-47.94	2.16	49.45	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-55.71	2.16	41.68	Average	54	Pass
NVNT	n20	5180	Ant1	4956.4	-44.01	2.16	53.38	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5144.7	-53.76	2.16	43.63	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.97	2.16	49.42	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-53.88	2.16	43.51	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.67	2.16	47.72	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-55.6	2.16	41.79	Average	54	Pass
NVNT	n20	5240	Ant1	5456.64	-45.74	2.16	51.65	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5429.28	-55.21	2.16	42.18	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.57	2.16	48.82	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-55.76	2.16	41.63	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.96	2.16	48.43	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-55.39	2.16	42.00	Average	54	Pass
NVNT	n40	5190	Ant1	5021.95	-44.96	2.16	52.43	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5148.97	-53.34	2.16	44.05	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-47.67	2.16	49.72	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-53.54	2.16	43.85	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49	2.16	48.39	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-55.21	2.16	42.18	Average	54	Pass
NVNT	n40	5230	Ant1	5435.43	-46.02	2.16	51.37	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5377.38	-54.79	2.16	42.60	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-48.99	2.16	48.40	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-55.36	2.16	42.03	Average	54	Pass



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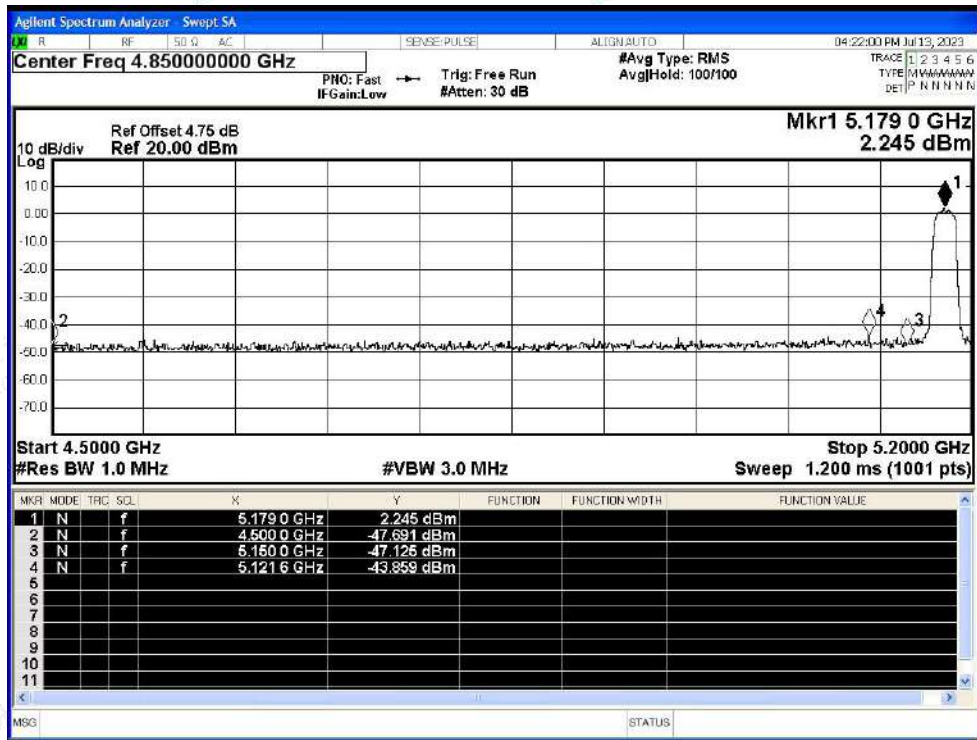
NVNT	ac20	5180	Ant1	4500	-48.68	2.16	48.71	Peak	68.2	Pass
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NVNT	ac20	5180	Ant1	4607.1	-44.42	2.16	52.97	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5148.9	-53.83	2.16	43.56	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-44.91	2.16	52.48	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-53.93	2.16	43.46	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-47.8	2.16	49.59	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-55.6	2.16	41.79	Average	54	Pass
NVNT	ac20	5240	Ant1	5411.04	-46.09	2.16	51.30	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5401.2	-55.21	2.16	42.18	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-47.59	2.16	49.80	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-55.64	2.16	41.75	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-48.94	2.16	48.45	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-55.52	2.16	41.87	Average	54	Pass
NVNT	ac40	5190	Ant1	5087.65	-44.48	2.16	52.91	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5148.24	-53.23	2.16	44.16	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-47.11	2.16	50.28	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-53.53	2.16	43.86	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-47.41	2.16	49.98	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-55.43	2.16	41.96	Average	54	Pass
NVNT	ac40	5230	Ant1	5455.14	-45.62	2.16	51.77	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5370.9	-54.9	2.16	42.49	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-47.97	2.16	49.42	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-55.26	2.16	42.13	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-48.82	2.16	48.57	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-54.35	2.16	43.04	Average	54	Pass
NVNT	ac80	5210	Ant1	5372.55	-45.28	2.16	52.11	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5361.33	-53.86	2.16	43.53	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-47.77	2.16	49.62	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-54.63	2.16	42.76	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-48.05	2.16	49.34	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-54.91	2.16	42.48	Average	54	Pass
NVNT	ac80	5210	Ant1	4923.44	-44.12	2.16	53.27	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-51.69	2.16	45.70	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-46.26	2.16	51.13	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-51.69	2.16	45.70	Average	54	Pass



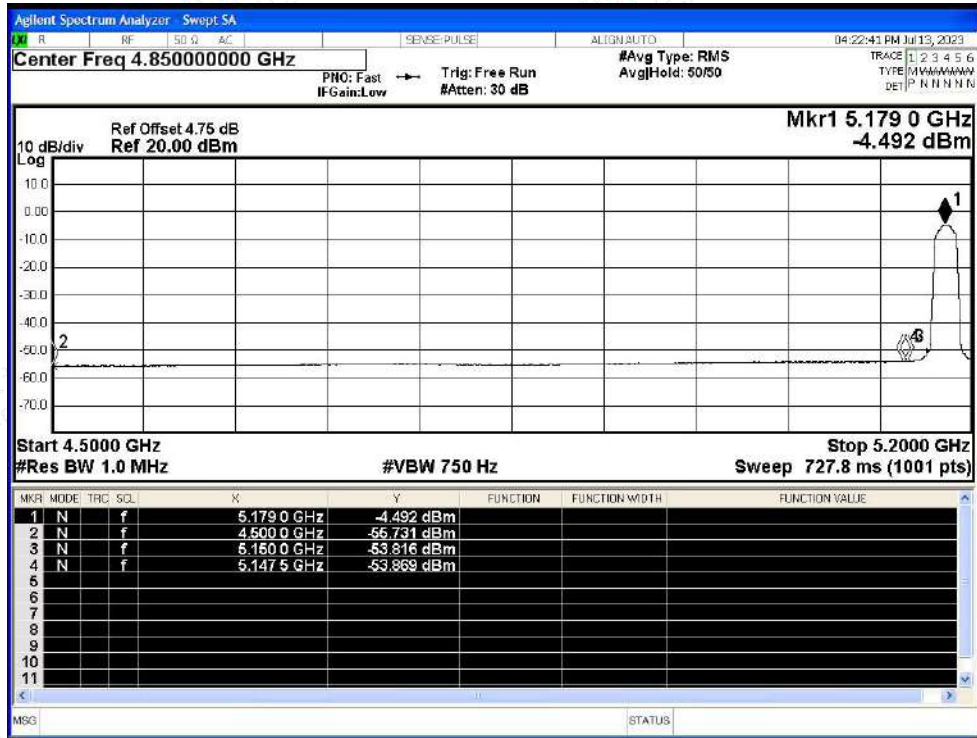
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Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

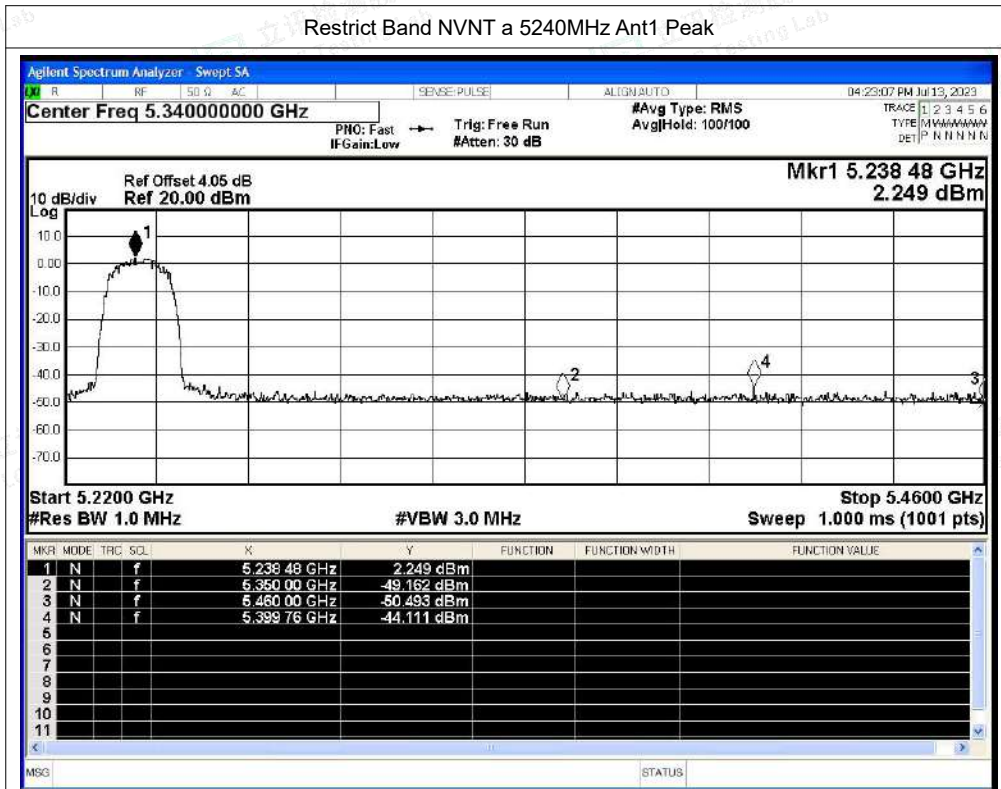


Restrict Band NVNT a 5180MHz Ant1 Average

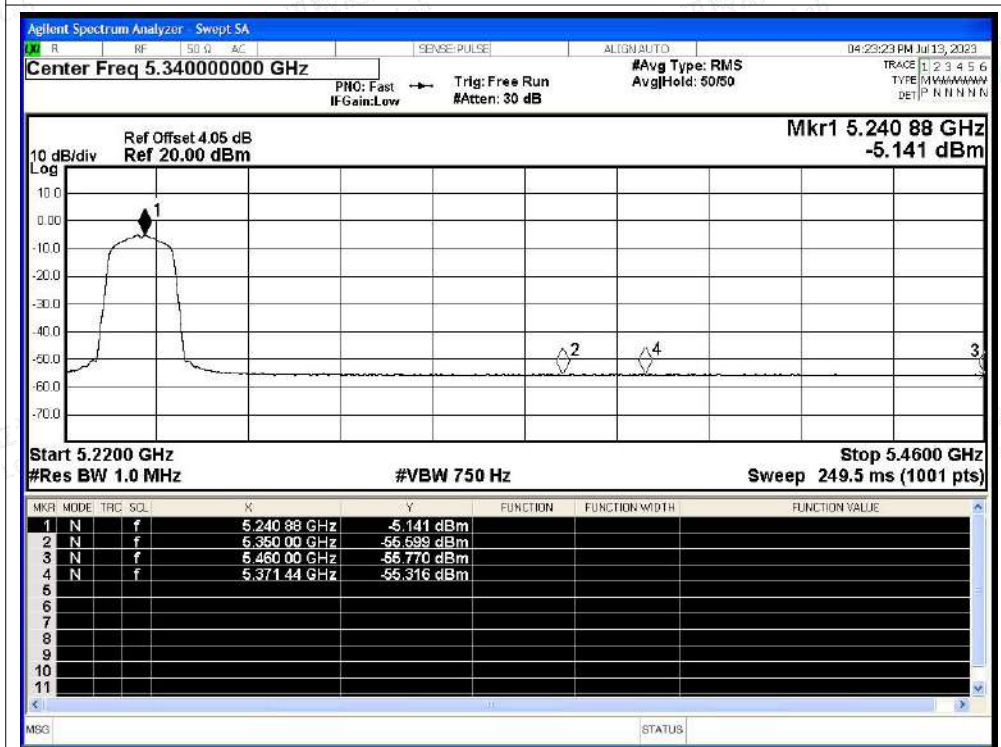




Restrict Band NVNT a 5240MHz Ant1 Peak

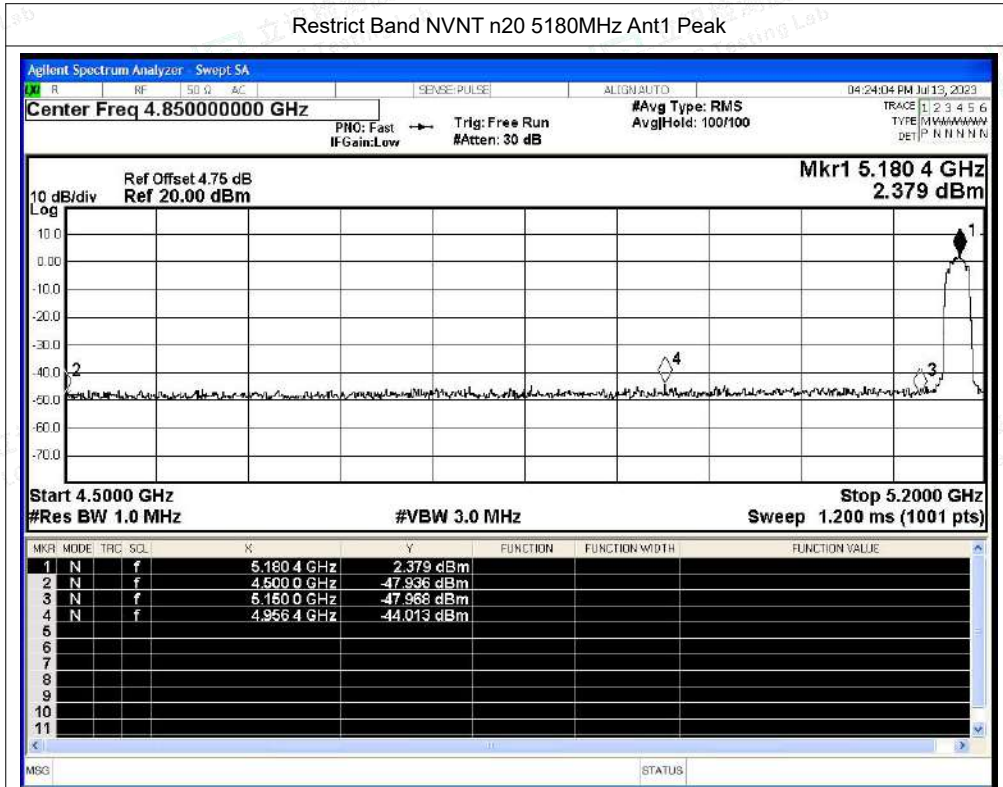


Restrict Band NVNT a 5240MHz Ant1 Average

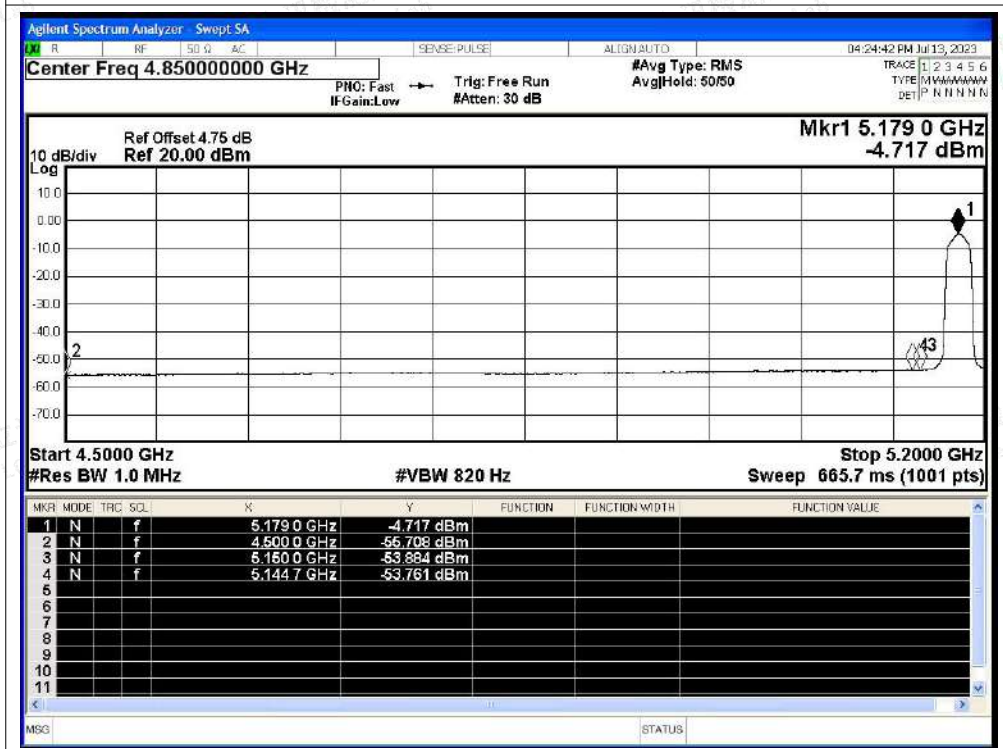




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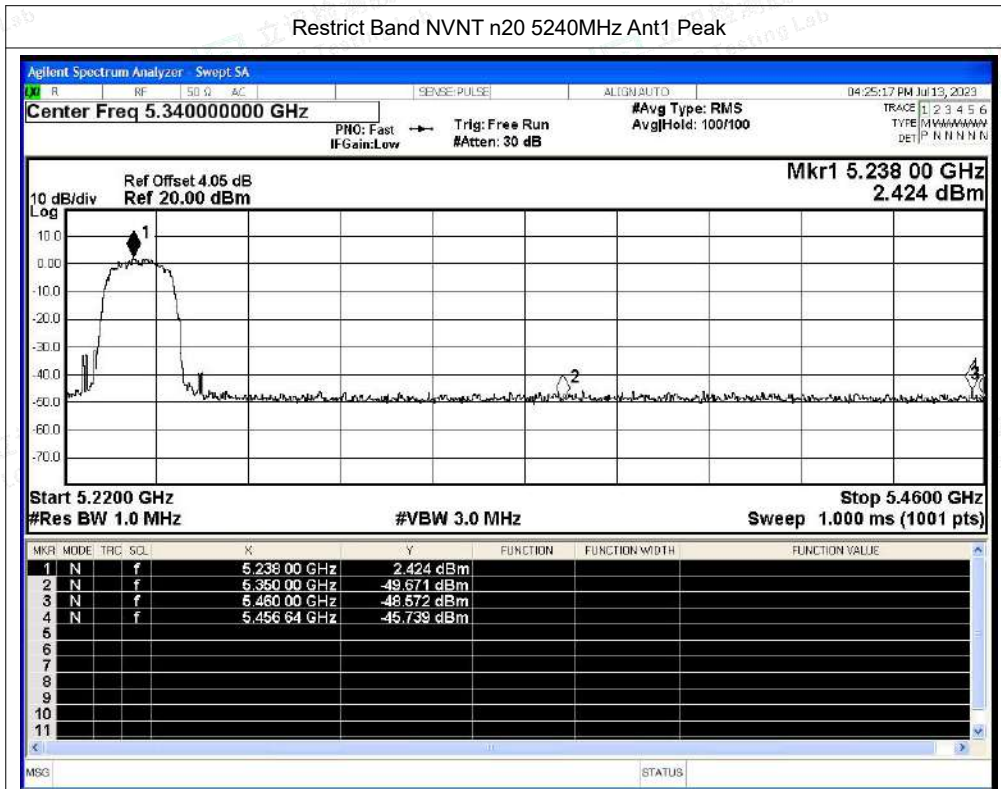


Restrict Band NVNT n20 5180MHz Ant1 Average

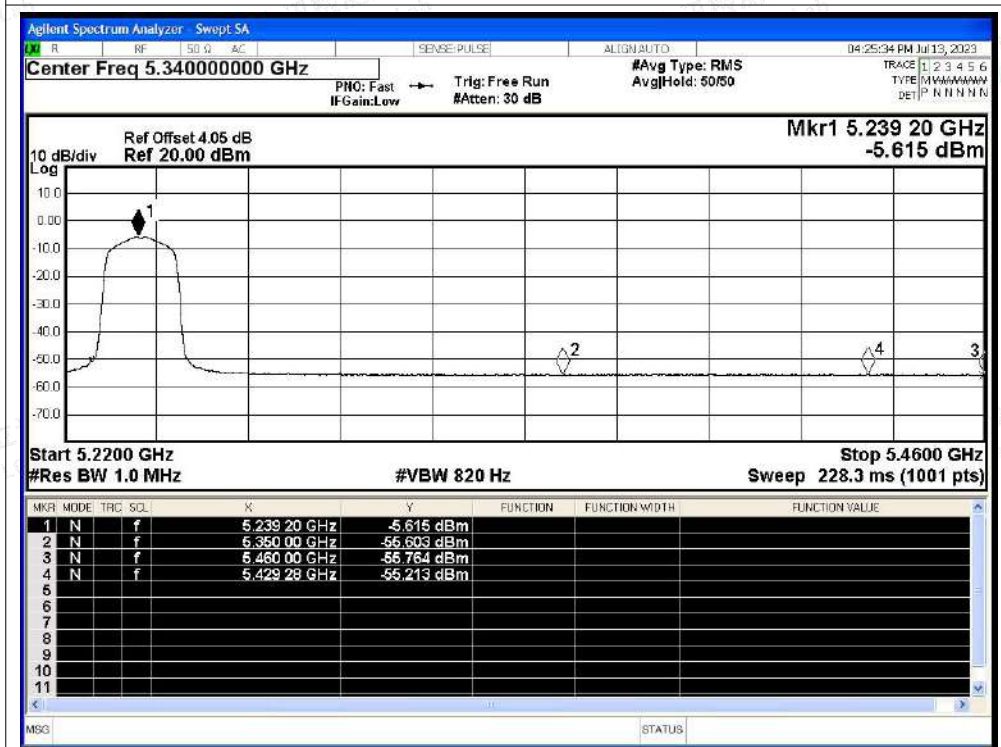




Restrict Band NVNT n20 5240MHz Ant1 Peak

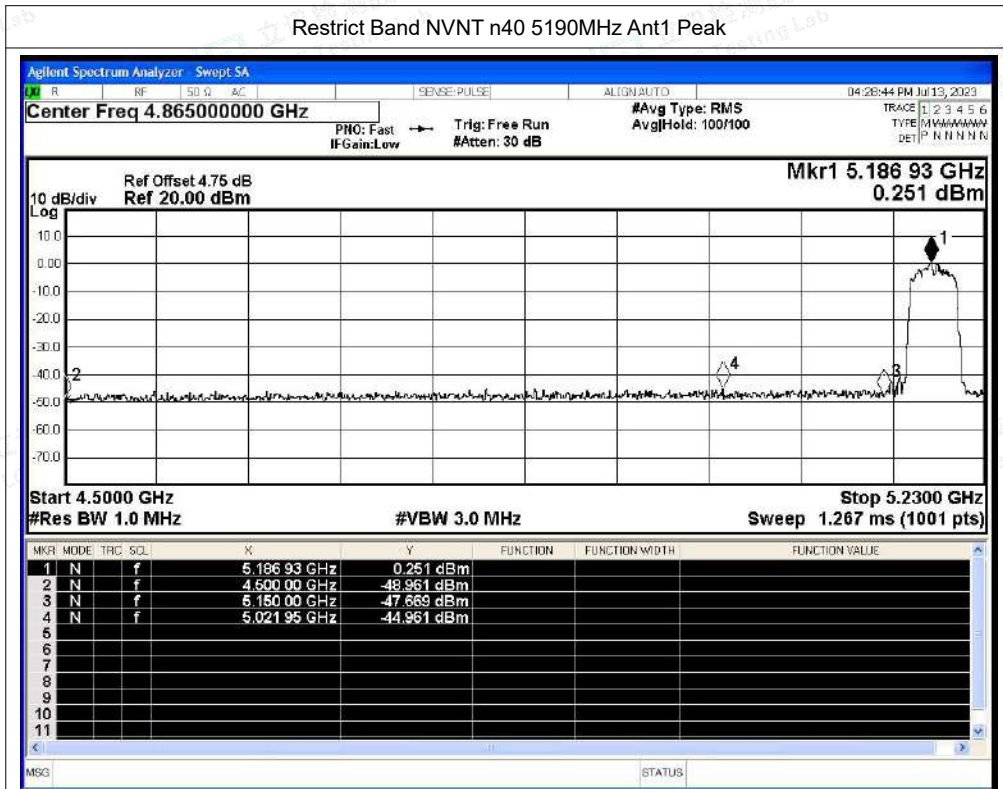


Restrict Band NVNT n20 5240MHz Ant1 Average

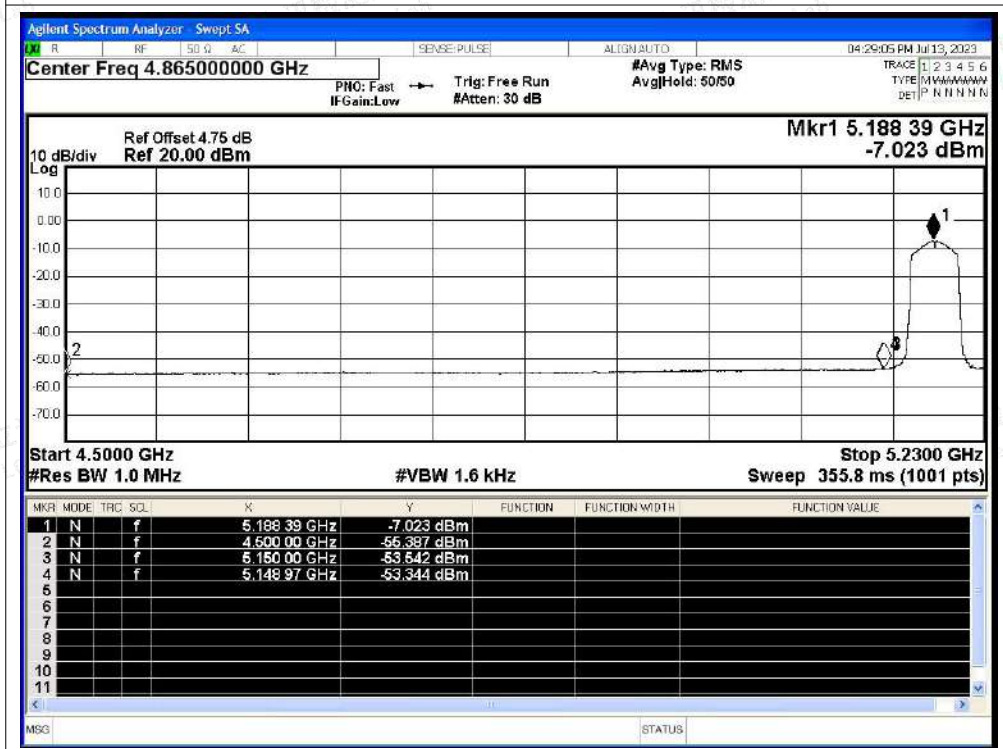




Restrict Band NVNT n40 5190MHz Ant1 Peak

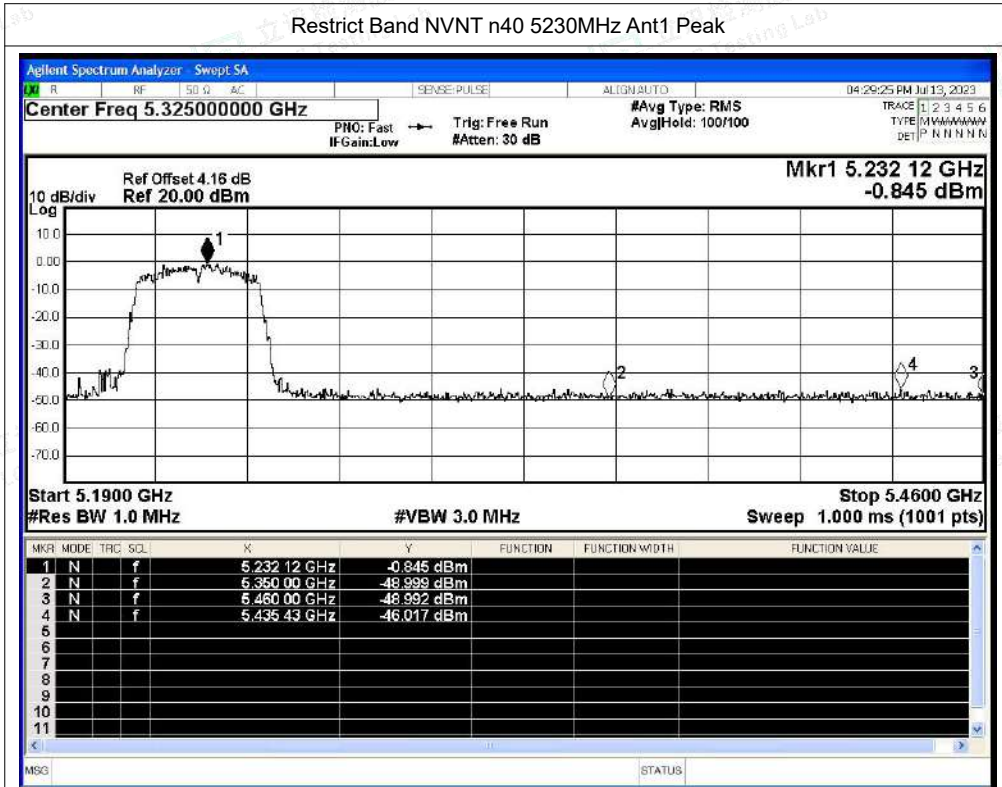


Restrict Band NVNT n40 5190MHz Ant1 Average

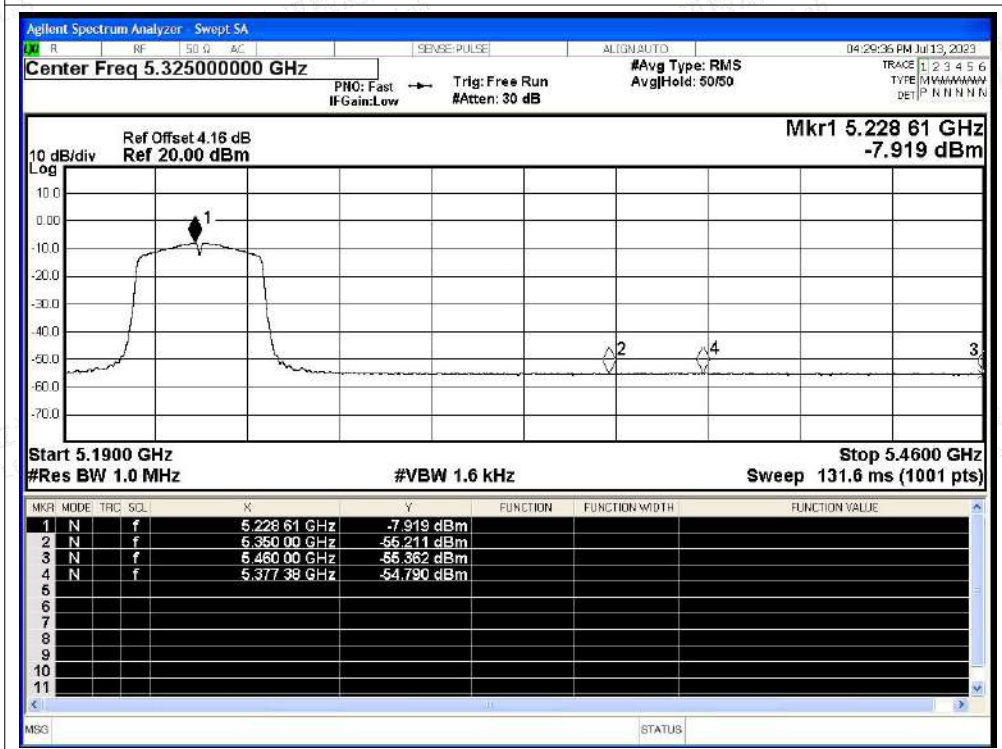




Restrict Band NVNT n40 5230MHz Ant1 Peak

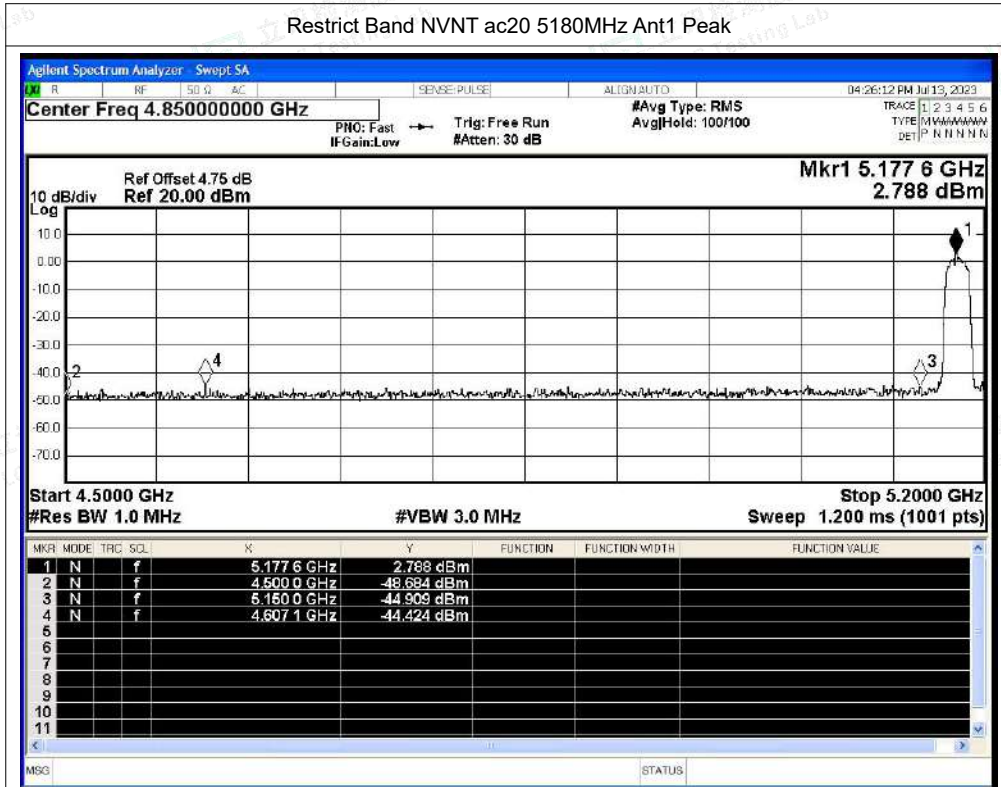


Restrict Band NVNT n40 5230MHz Ant1 Average

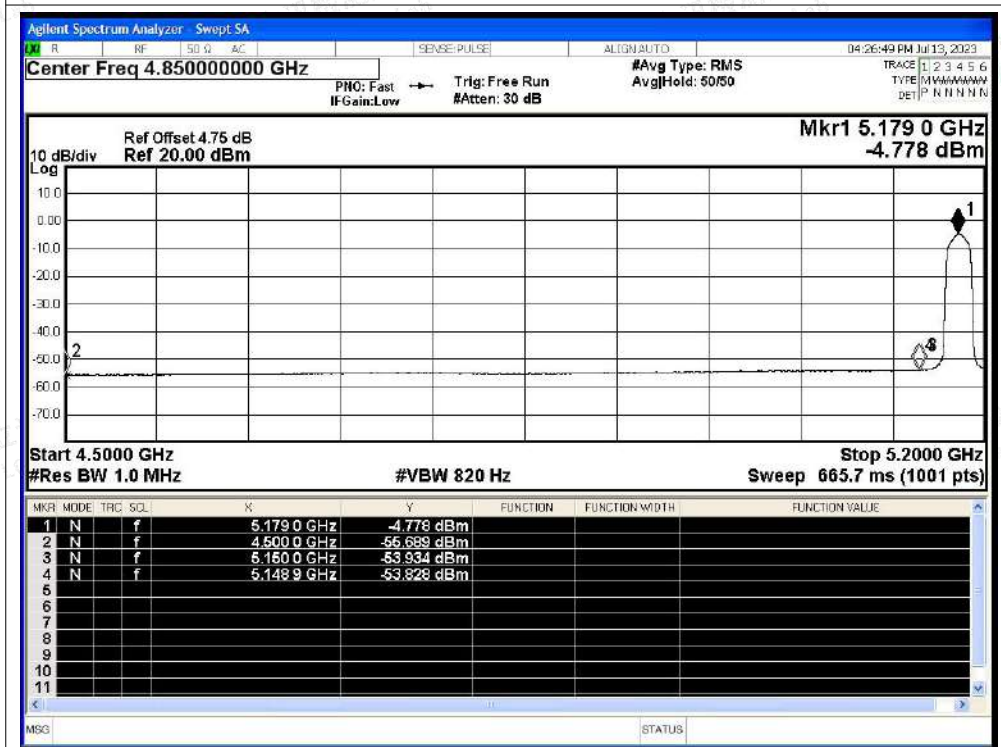




Restrict Band NVNT ac20 5180MHz Ant1 Peak

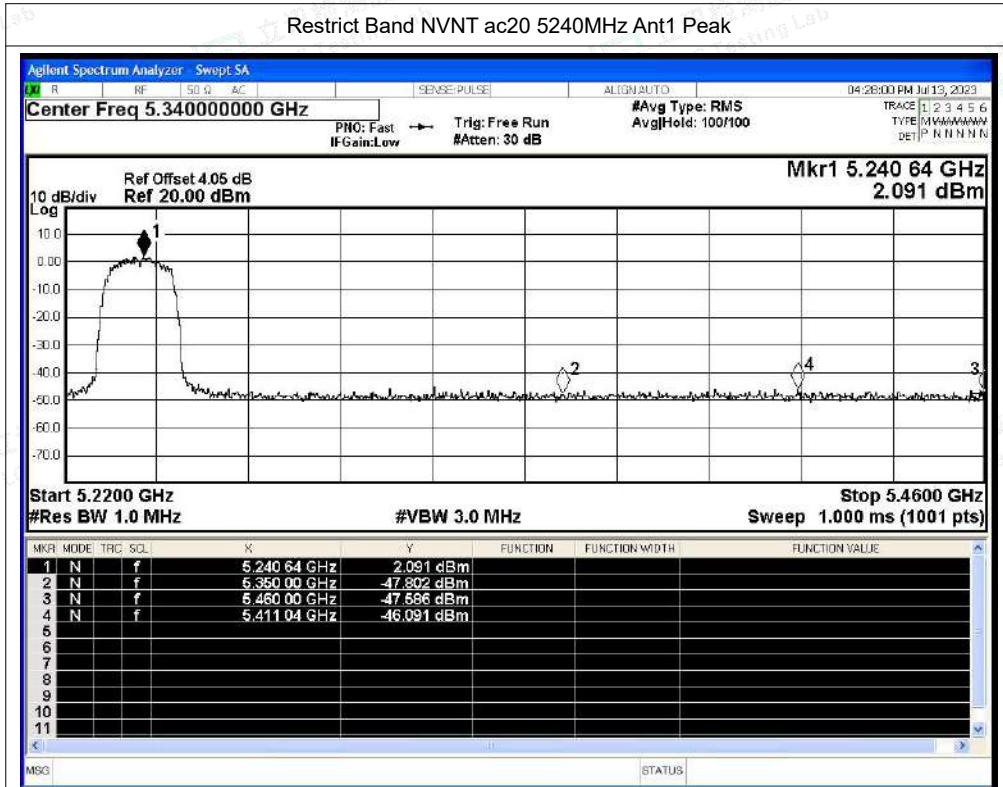


Restrict Band NVNT ac20 5180MHz Ant1 Average

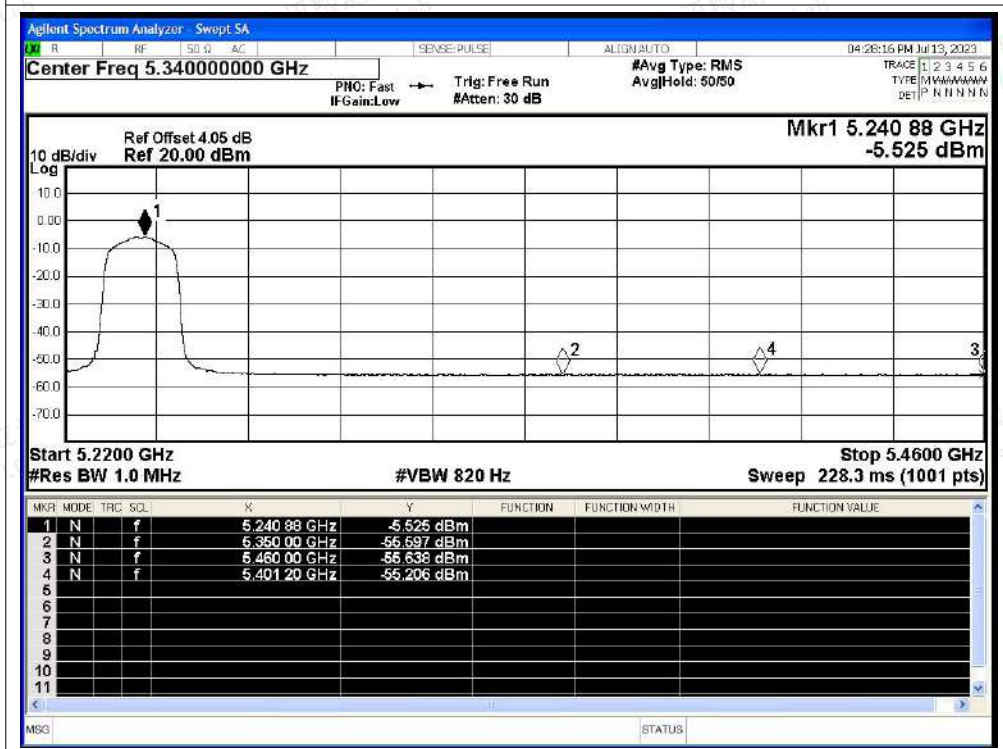




Restrict Band NVNT ac20 5240MHz Ant1 Peak

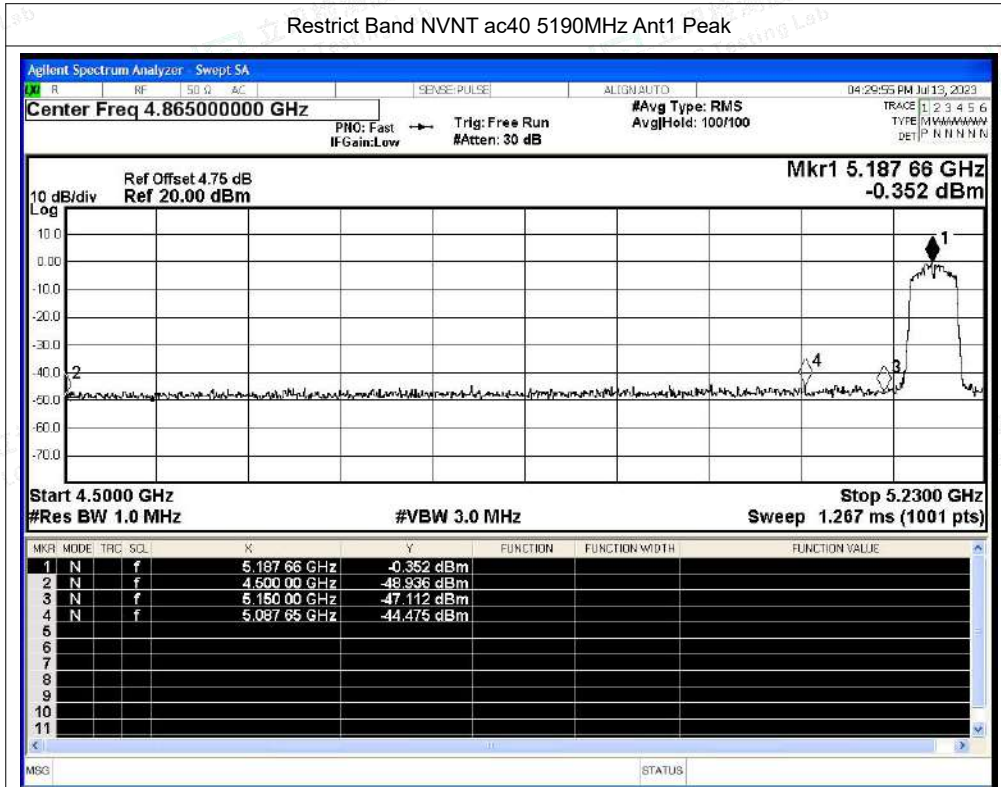


Restrict Band NVNT ac20 5240MHz Ant1 Average

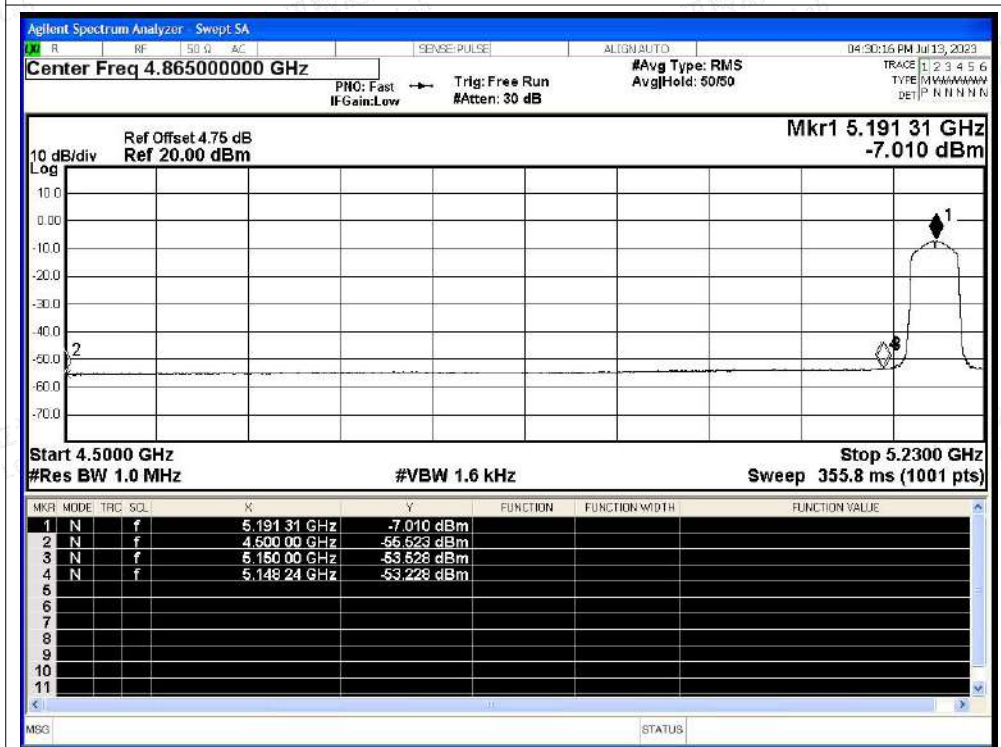




Restrict Band NVNT ac40 5190MHz Ant1 Peak

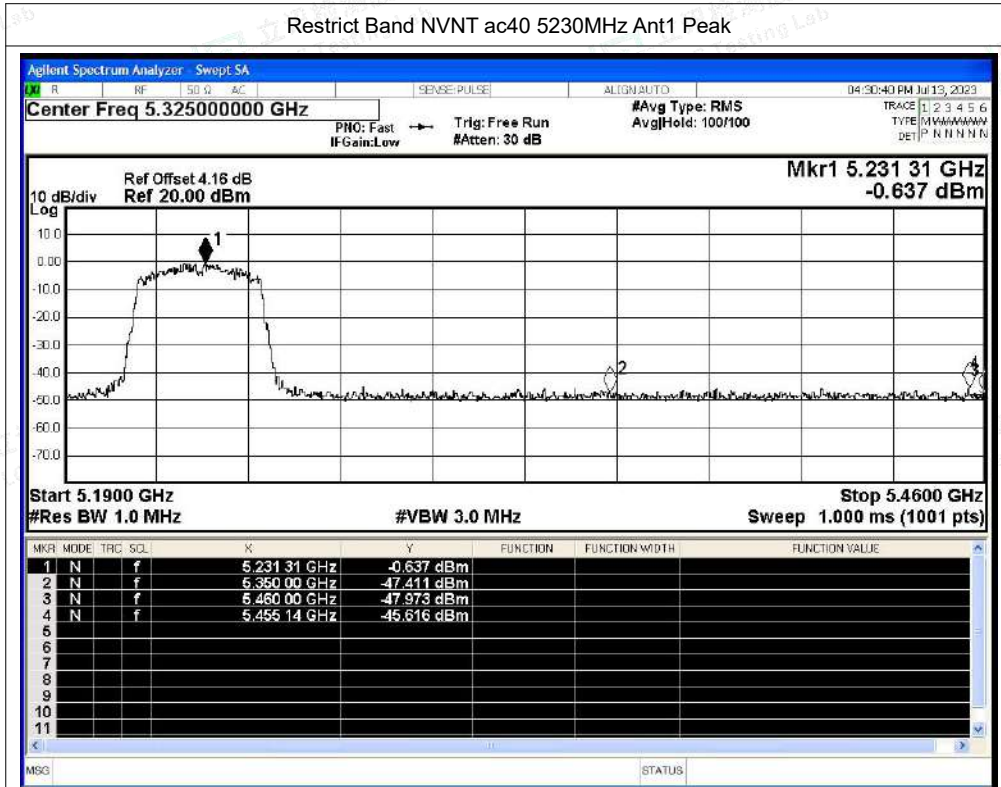


Restrict Band NVNT ac40 5190MHz Ant1 Average

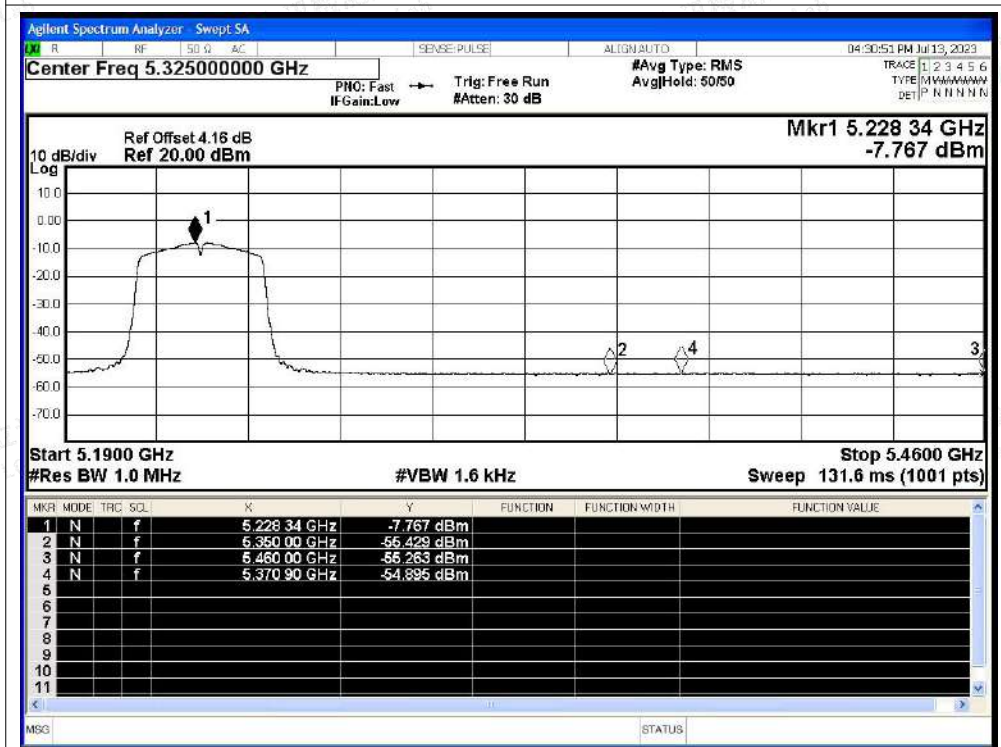




Restrict Band NVNT ac40 5230MHz Ant1 Peak

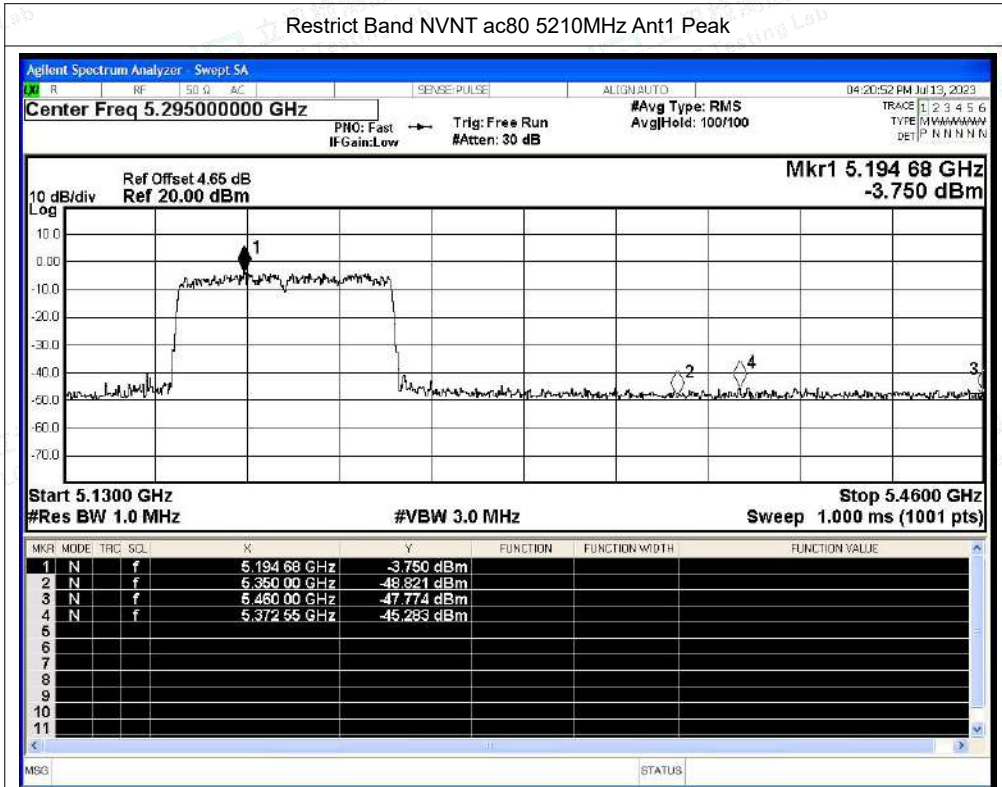


Restrict Band NVNT ac40 5230MHz Ant1 Average

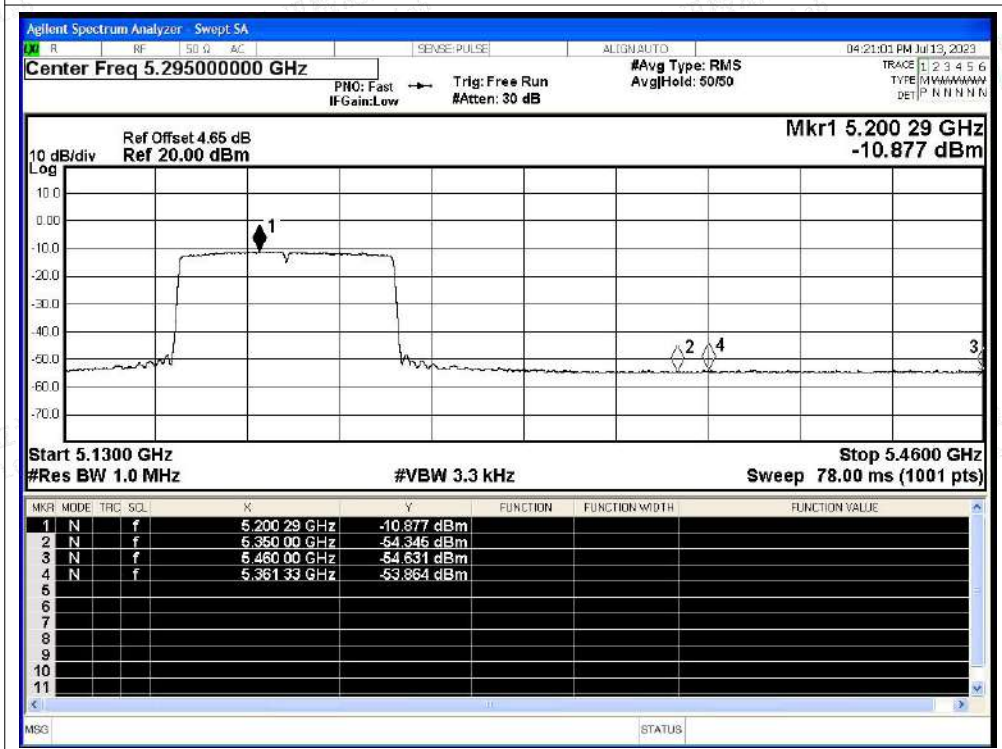




Restrict Band NVNT ac80 5210MHz Ant1 Peak

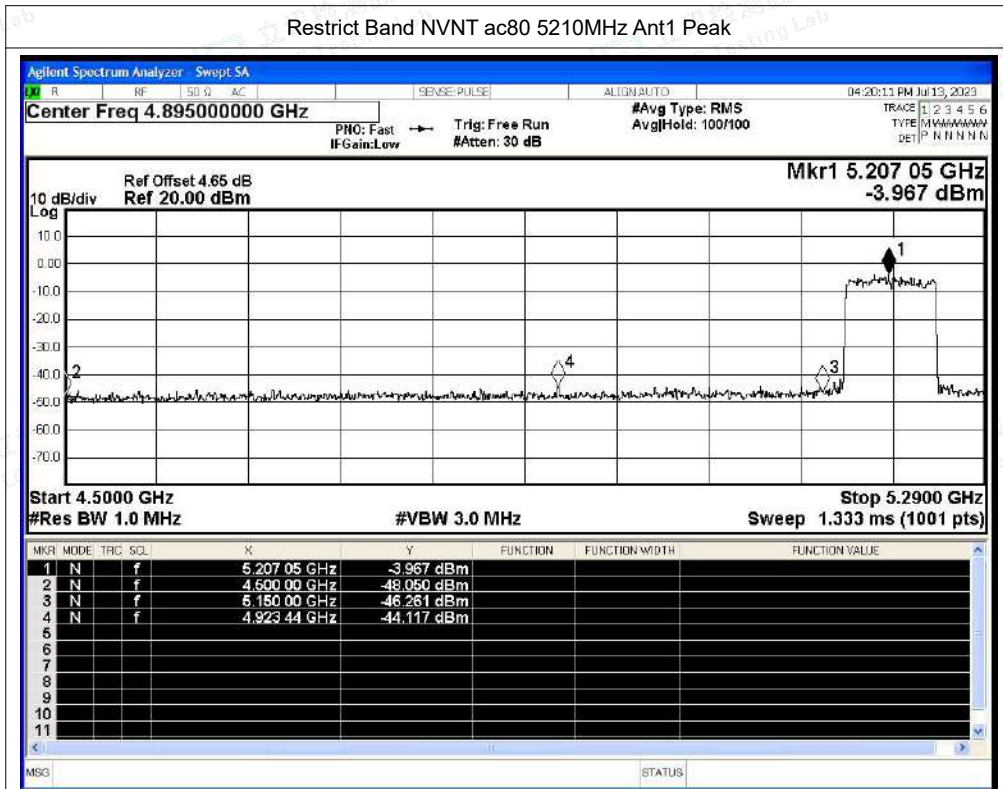


Restrict Band NVNT ac80 5210MHz Ant1 Average

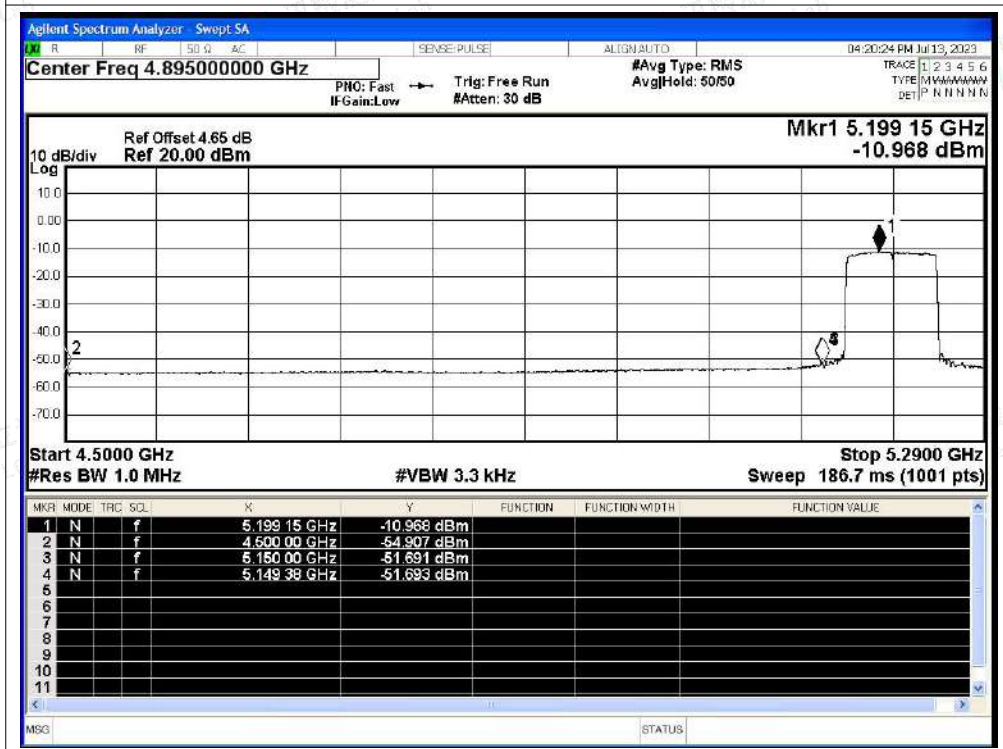




Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average





C.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant1	5190.04	40000	7.71	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac20	5180	Ant1	5180	0	0	25	Pass
NVNT	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
NVNT	ac20	5240	Ant1	5240	0	0	25	Pass
NVNT	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass

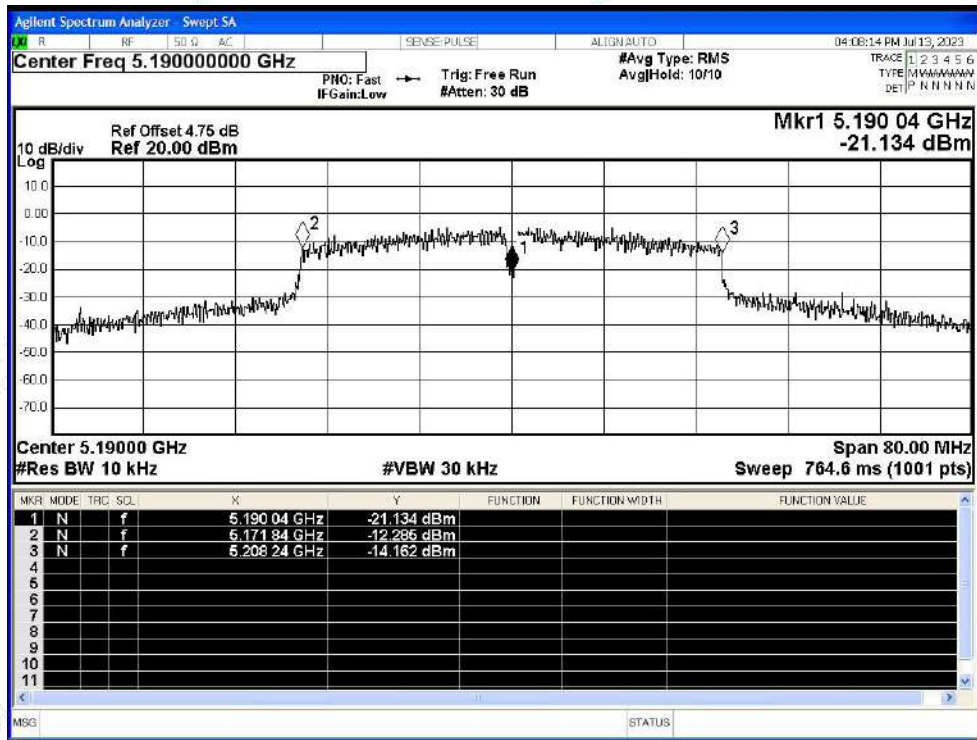


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Scan code to check authenticity

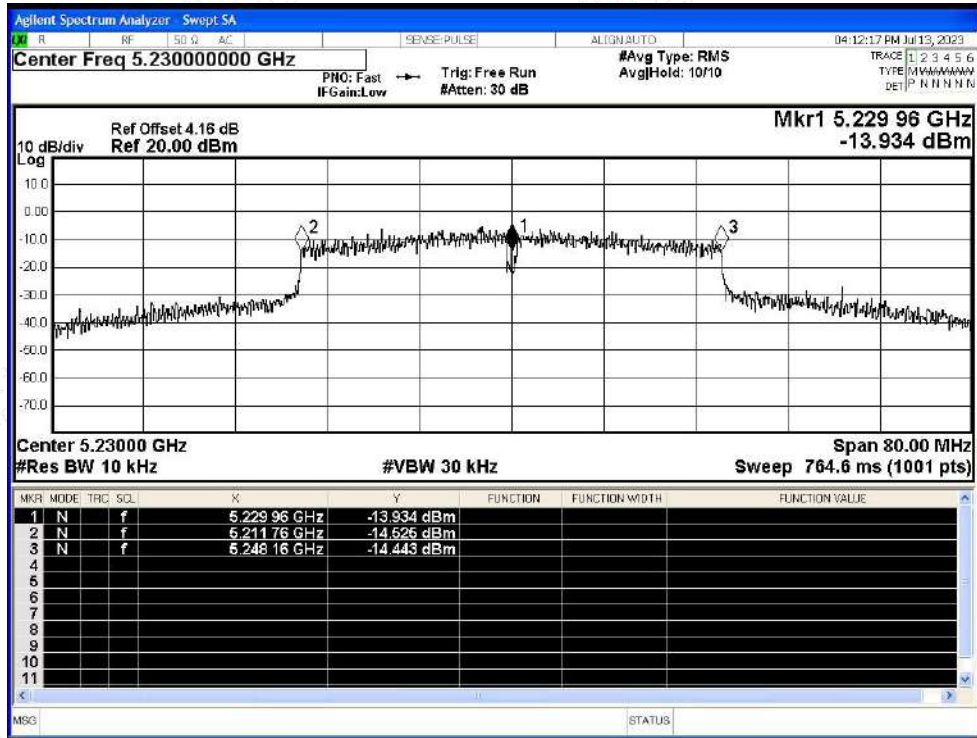


Test Graphs

Freq. Stability NVNT n40 5190MHz Ant1

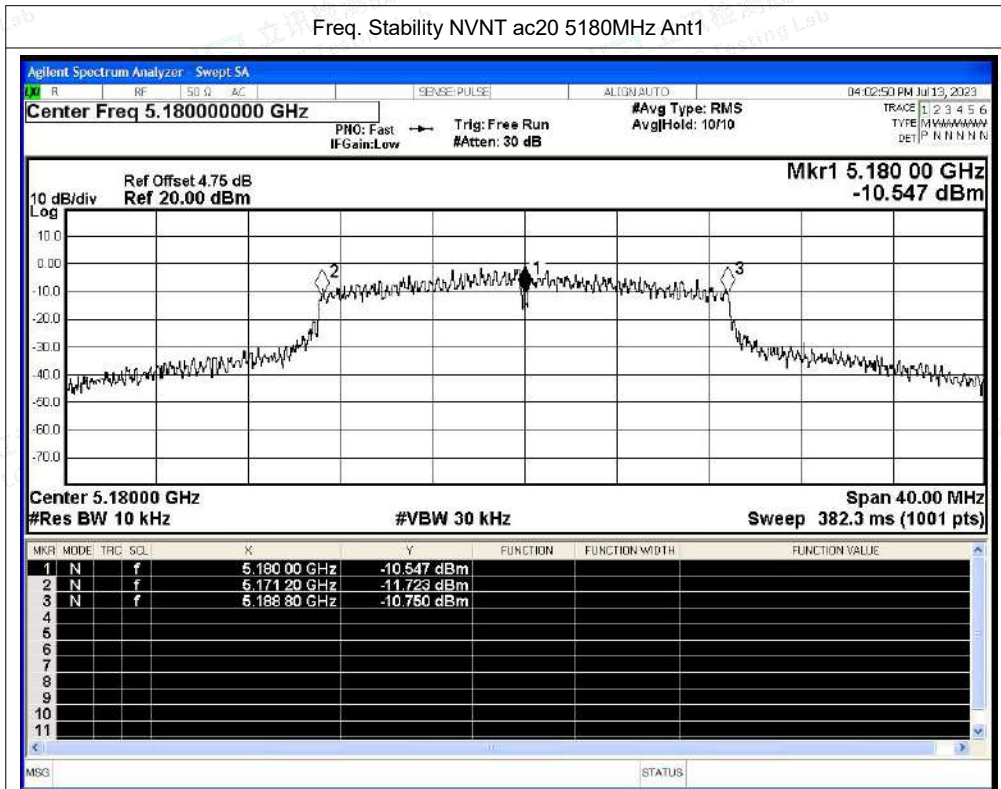


Freq. Stability NVNT n40 5230MHz Ant1

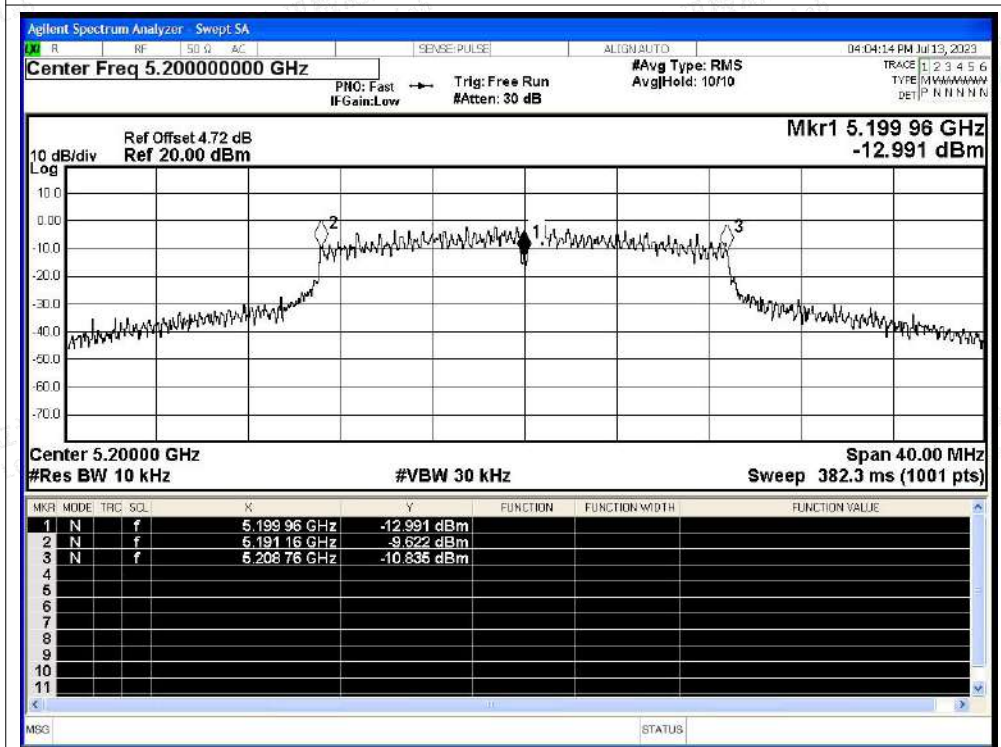




Freq. Stability NVNT ac20 5180MHz Ant1

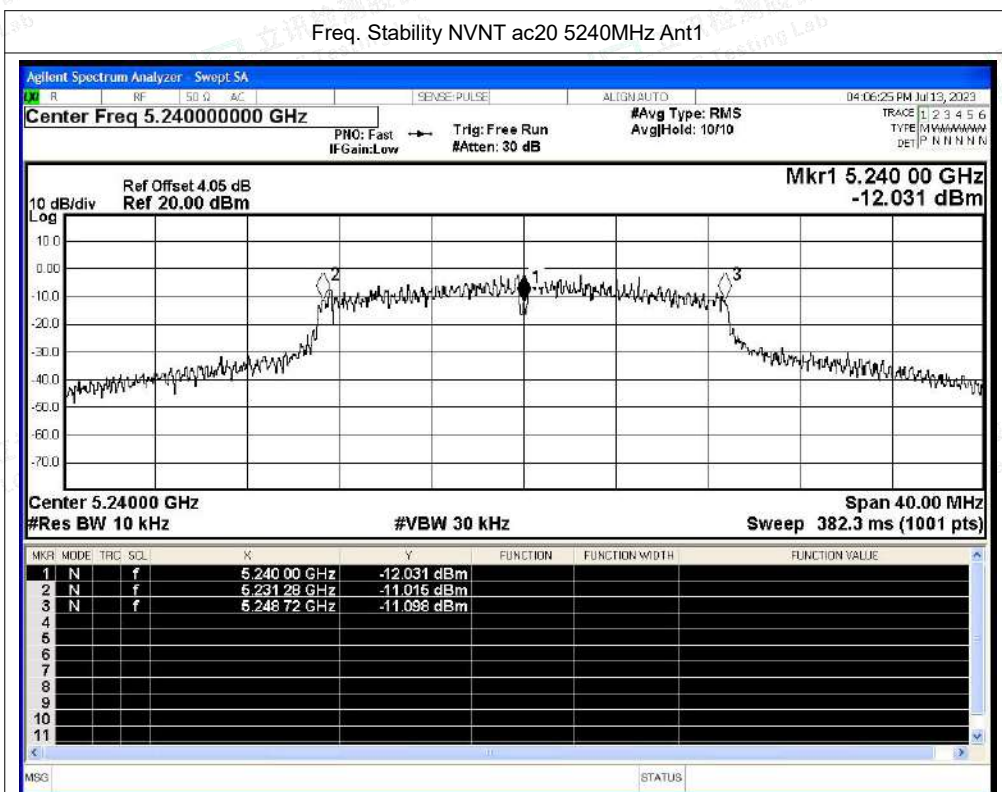


Freq. Stability NVNT ac20 5200MHz Ant1

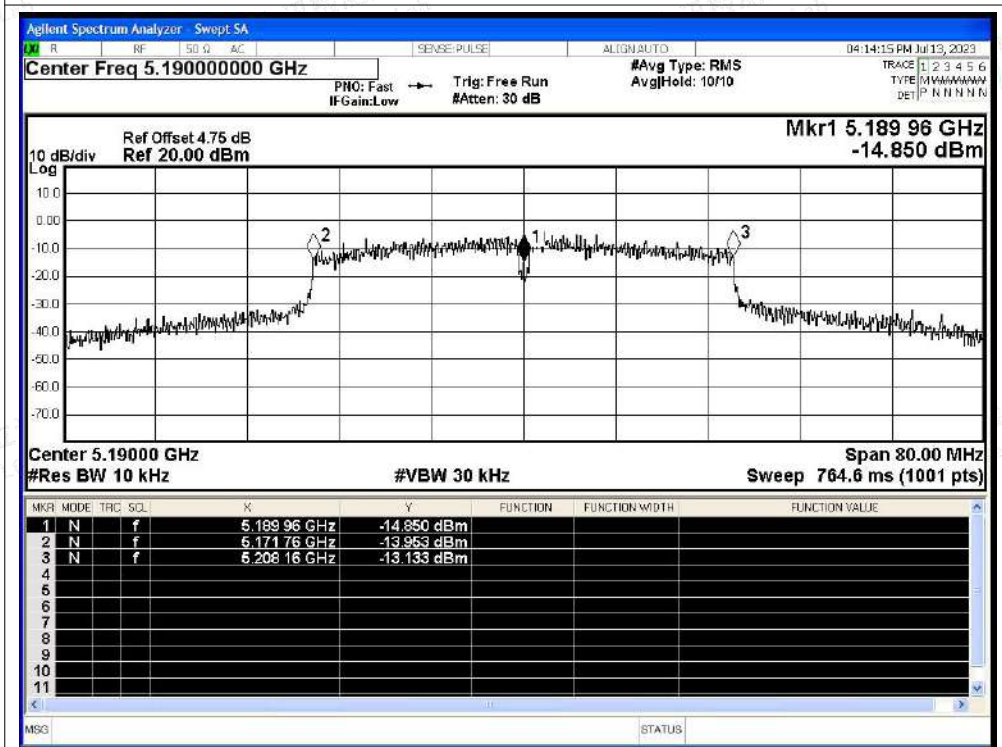




Freq. Stability NVNT ac20 5240MHz Ant1

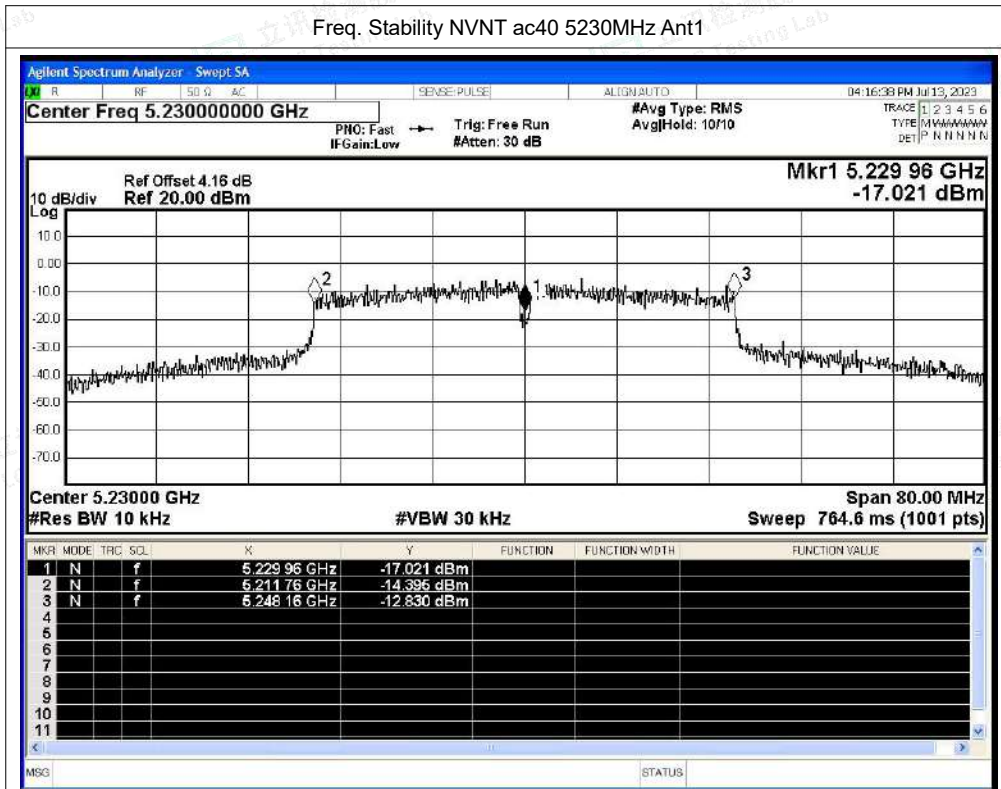


Freq. Stability NVNT ac40 5190MHz Ant1

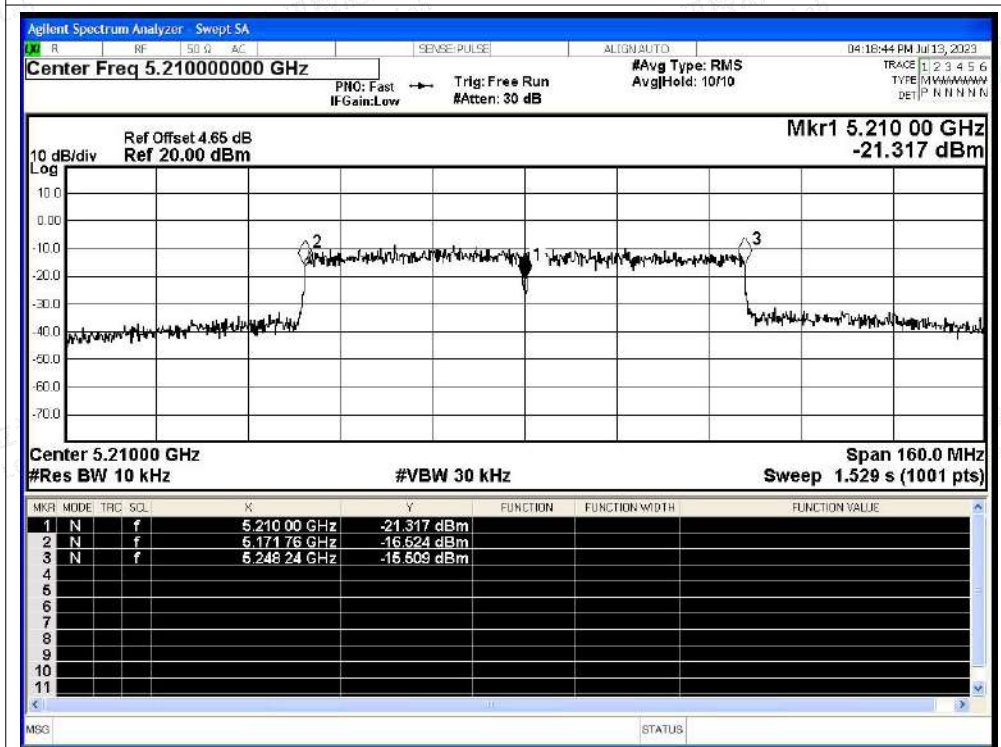




Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1





C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	58.33	2.34	0.72
NVNT	a	5200	Ant1	56.62	2.47	0.72
NVNT	a	5240	Ant1	58.11	2.36	0.72
NVNT	n20	5180	Ant1	56.88	2.45	0.77
NVNT	n20	5200	Ant1	55.15	2.58	0.77
NVNT	n20	5240	Ant1	56.66	2.47	0.77
NVNT	n40	5190	Ant1	39.56	4.03	1.55
NVNT	n40	5230	Ant1	39.84	4	1.55
NVNT	ac20	5180	Ant1	55.11	2.59	0.76
NVNT	ac20	5200	Ant1	57.07	2.44	0.76
NVNT	ac20	5240	Ant1	56.59	2.47	0.76
NVNT	ac40	5190	Ant1	37.98	4.2	1.53
NVNT	ac40	5230	Ant1	37.98	4.2	1.53
NVNT	ac80	5210	Ant1	24.85	6.05	3.07

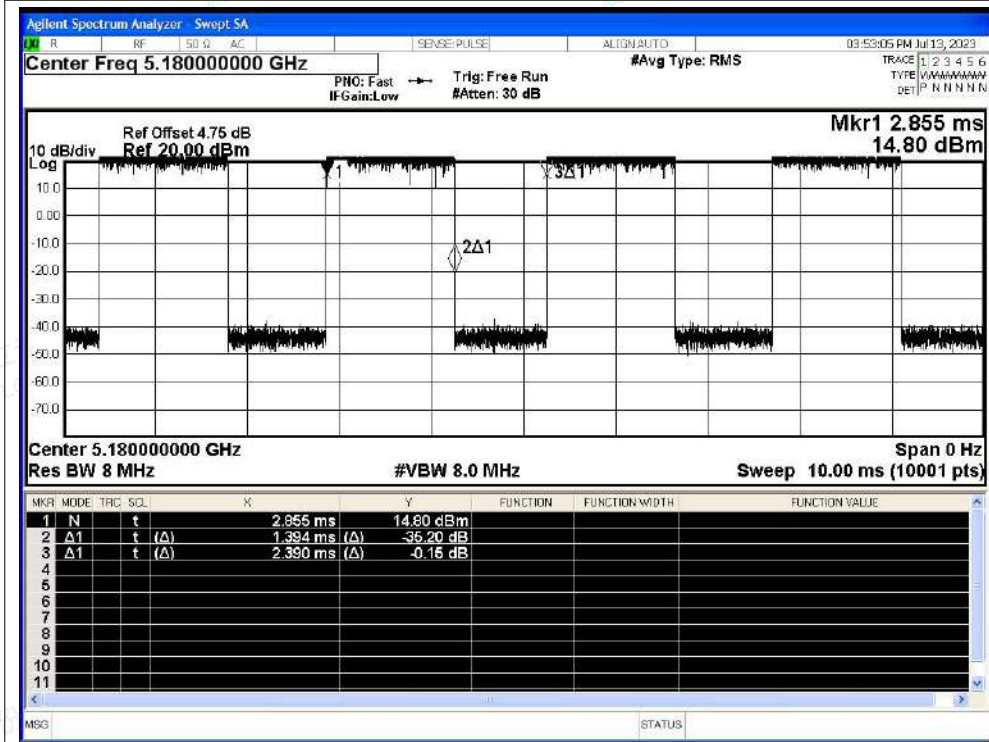


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 Scan code to check authenticity

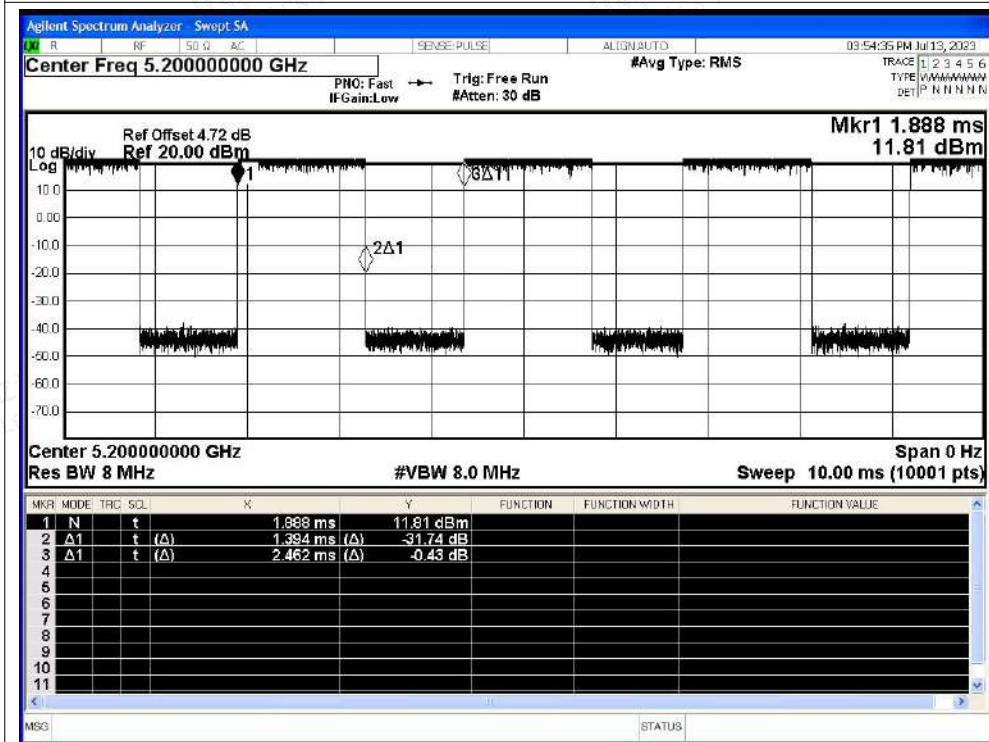


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

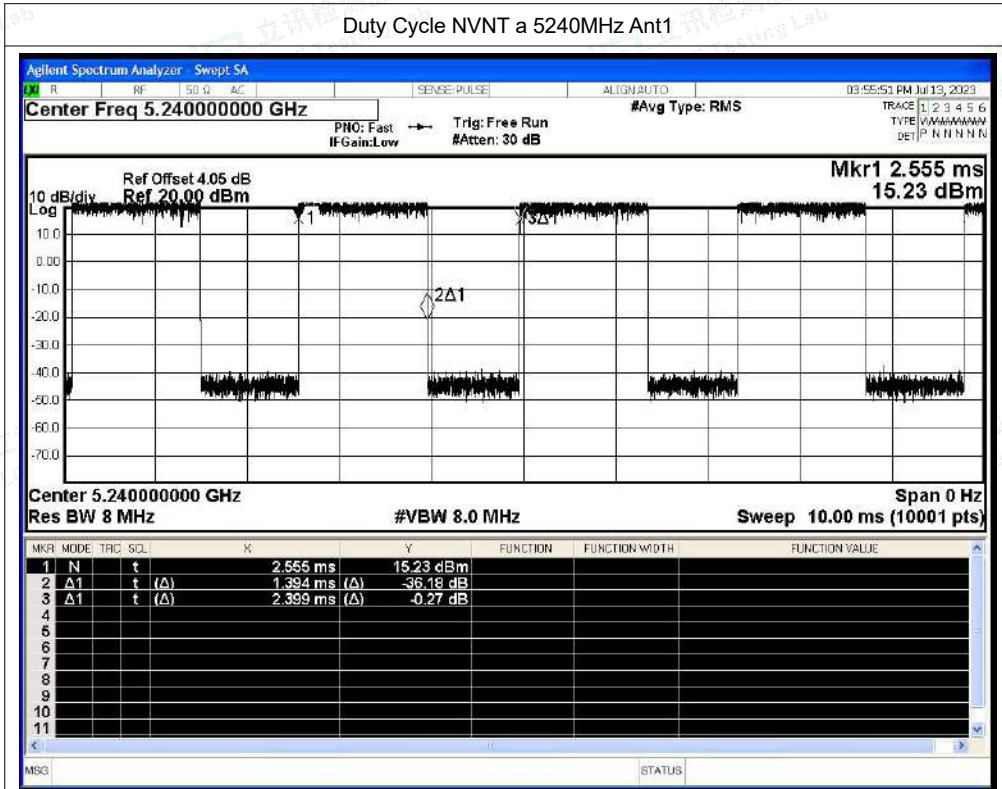


Duty Cycle NVNT a 5200MHz Ant1

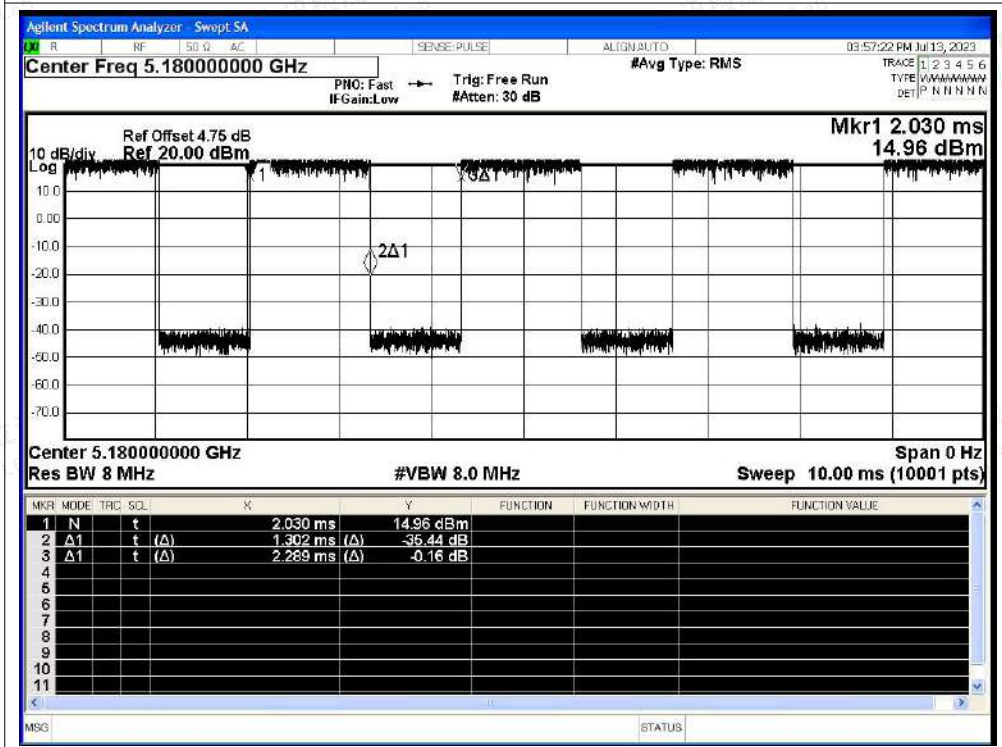




Duty Cycle NVNT a 5240MHz Ant1

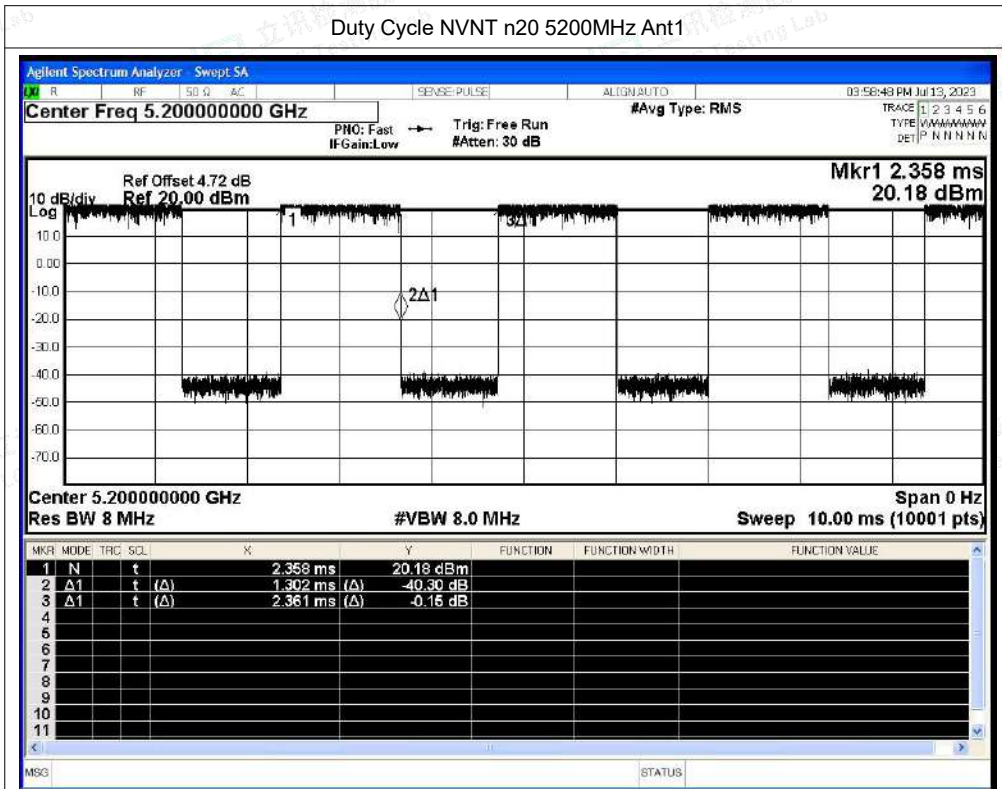


Duty Cycle NVNT n20 5180MHz Ant1

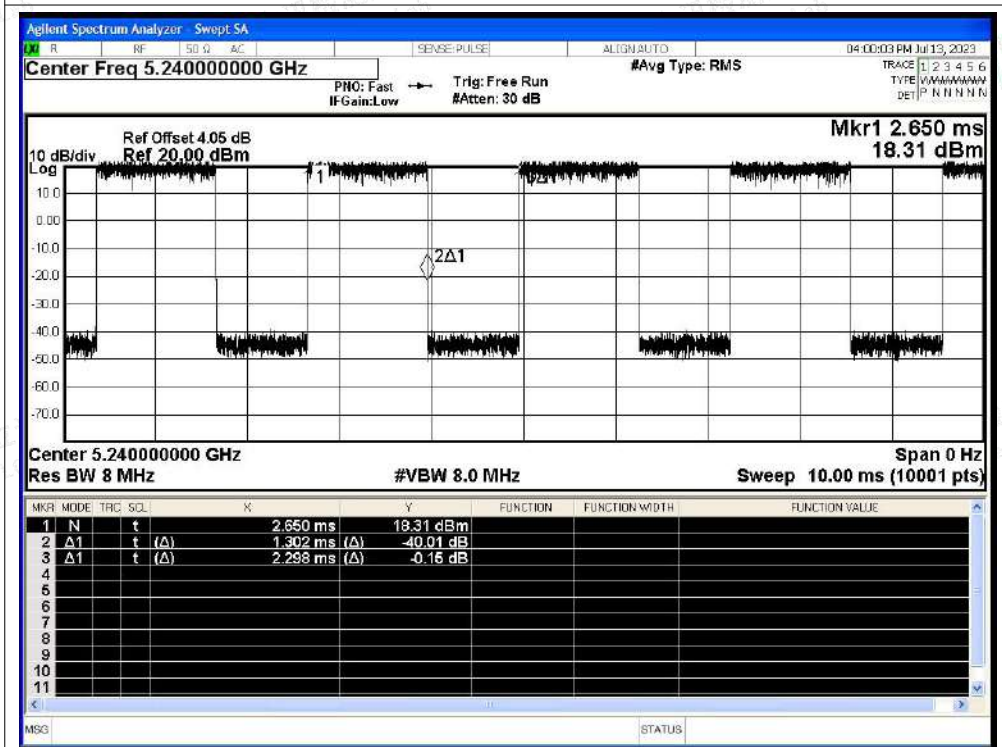




Duty Cycle NVNT n20 5200MHz Ant1

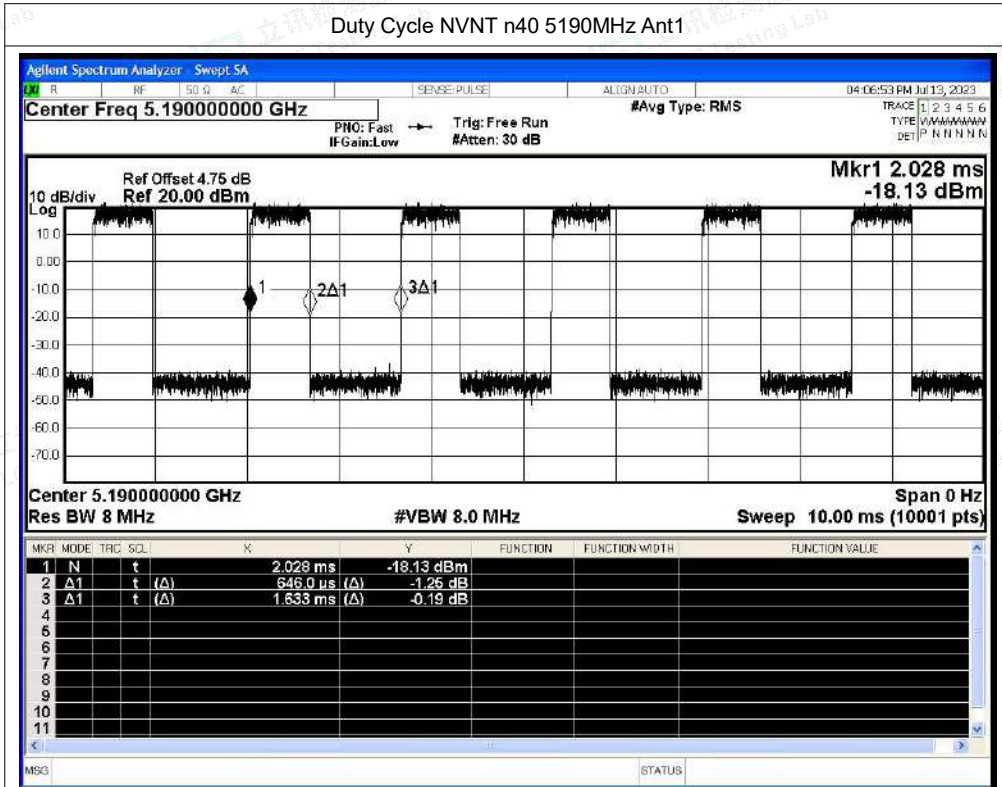


Duty Cycle NVNT n20 5240MHz Ant1

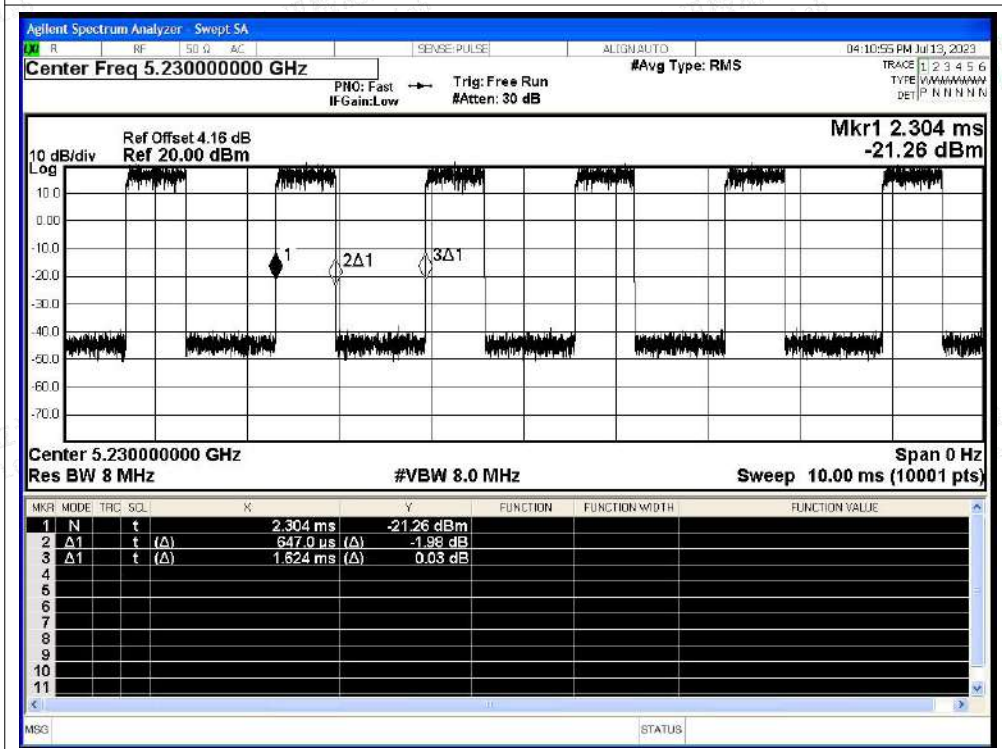




Duty Cycle NVNT n40 5190MHz Ant1

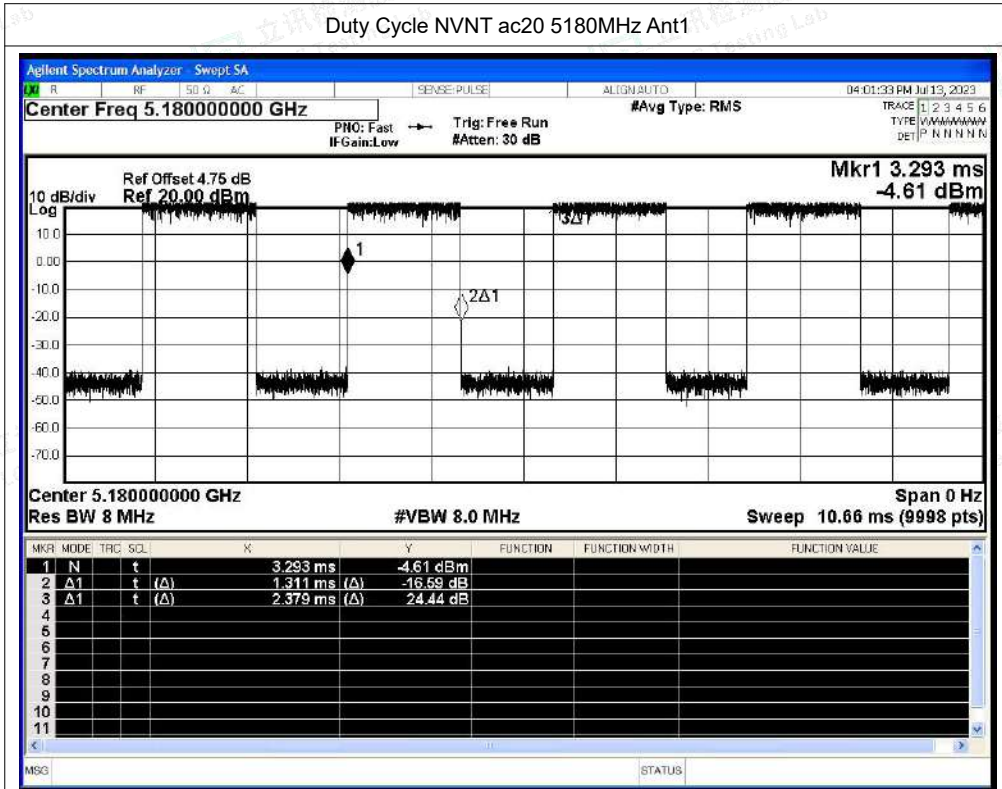


Duty Cycle NVNT n40 5230MHz Ant1

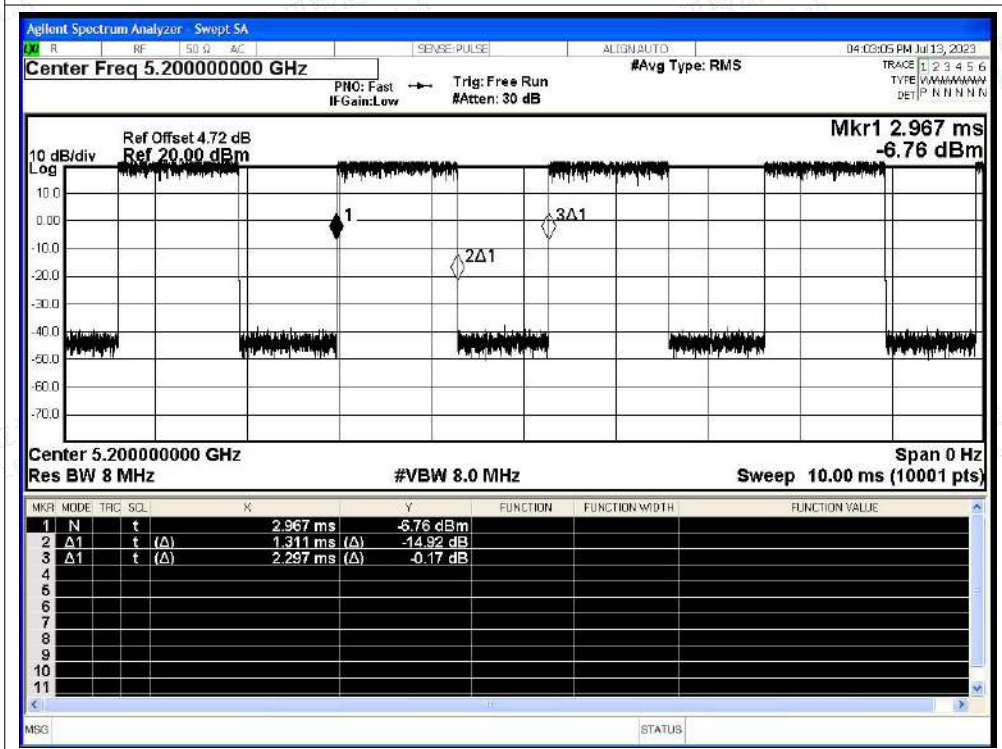




Duty Cycle NVNT ac20 5180MHz Ant1

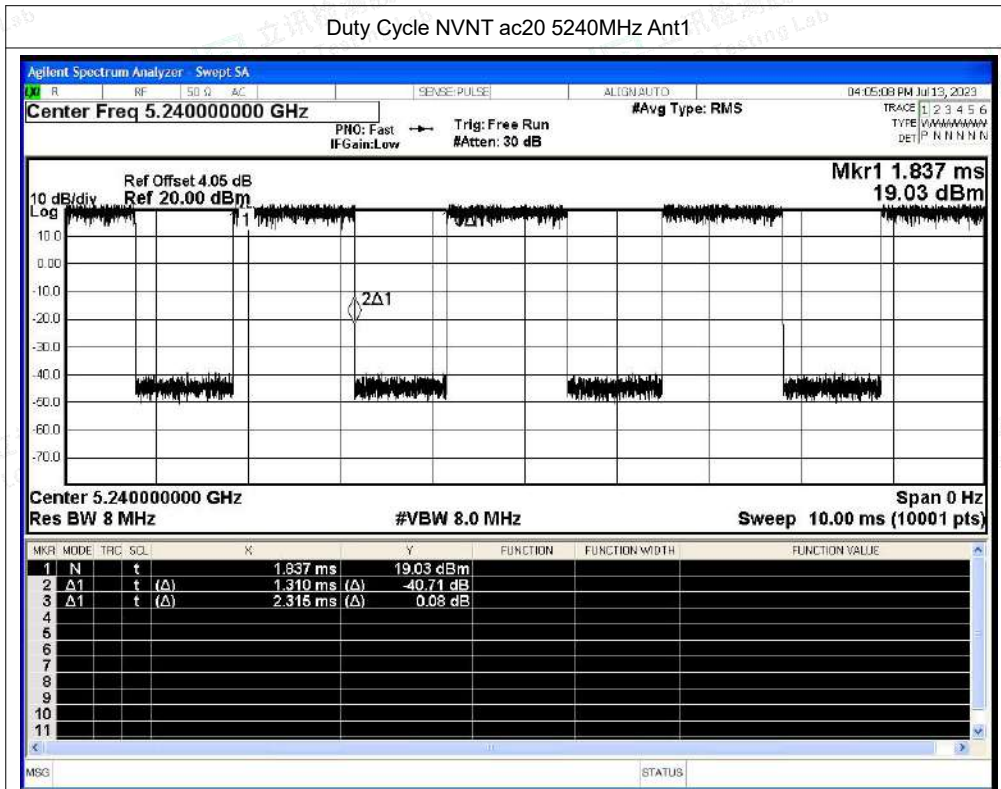


Duty Cycle NVNT ac20 5200MHz Ant1

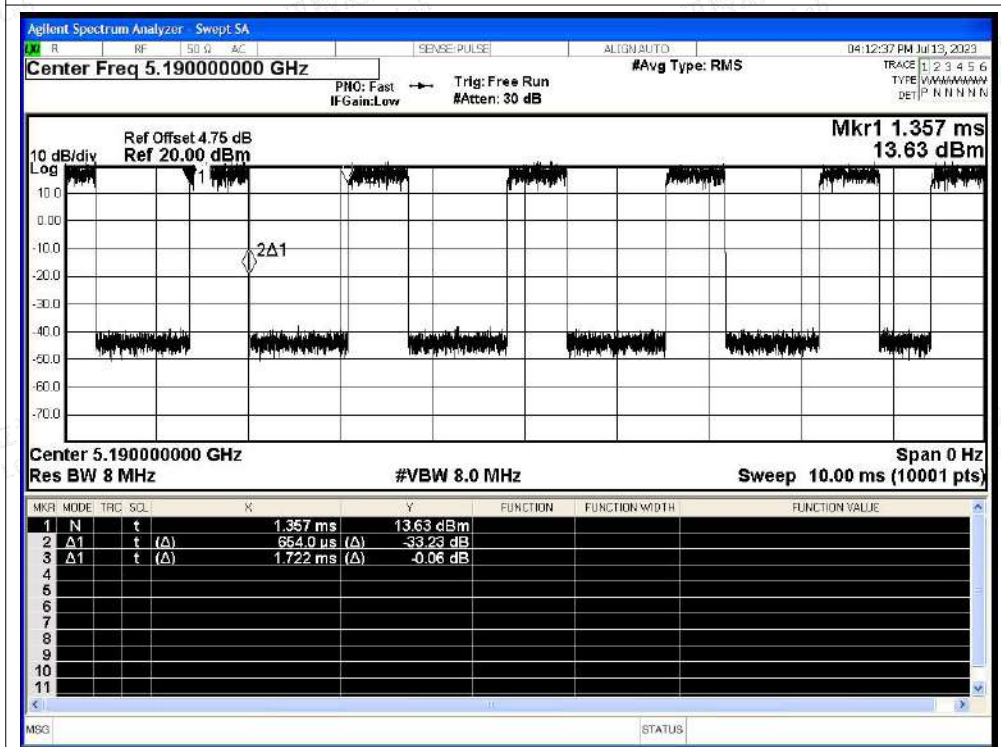




Duty Cycle NVNT ac20 5240MHz Ant1

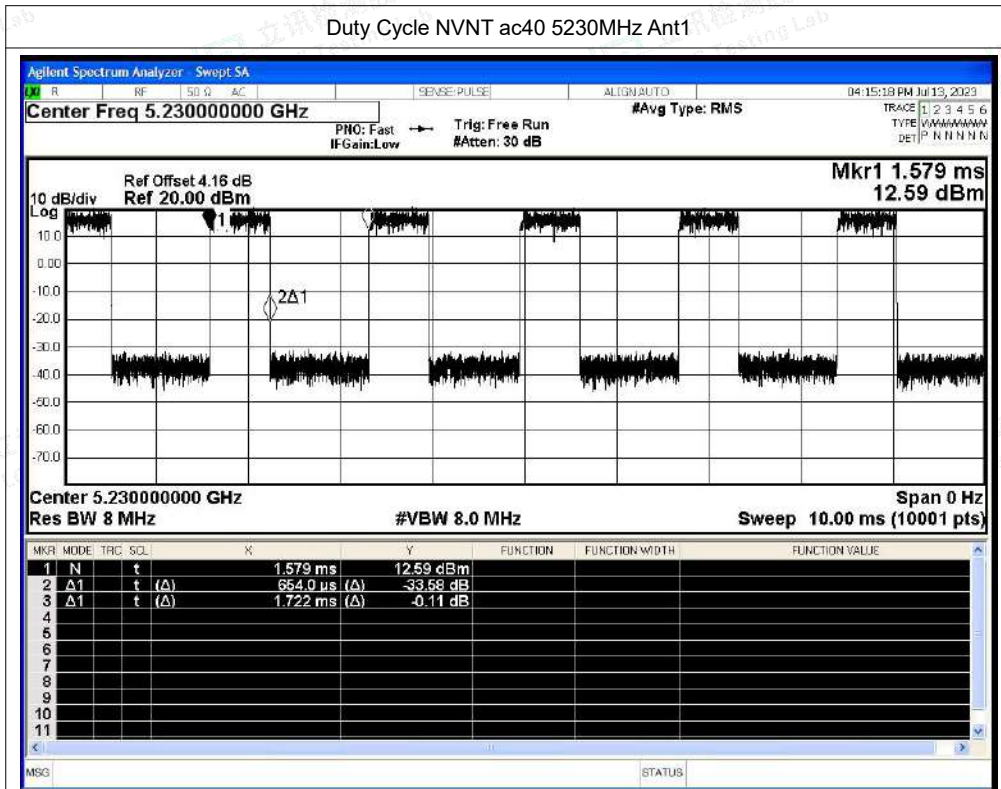


Duty Cycle NVNT ac40 5190MHz Ant1





Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1

