



Appendix B

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: SFO1

Test Model: SFO1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





B.1 -26dB Bandwidth

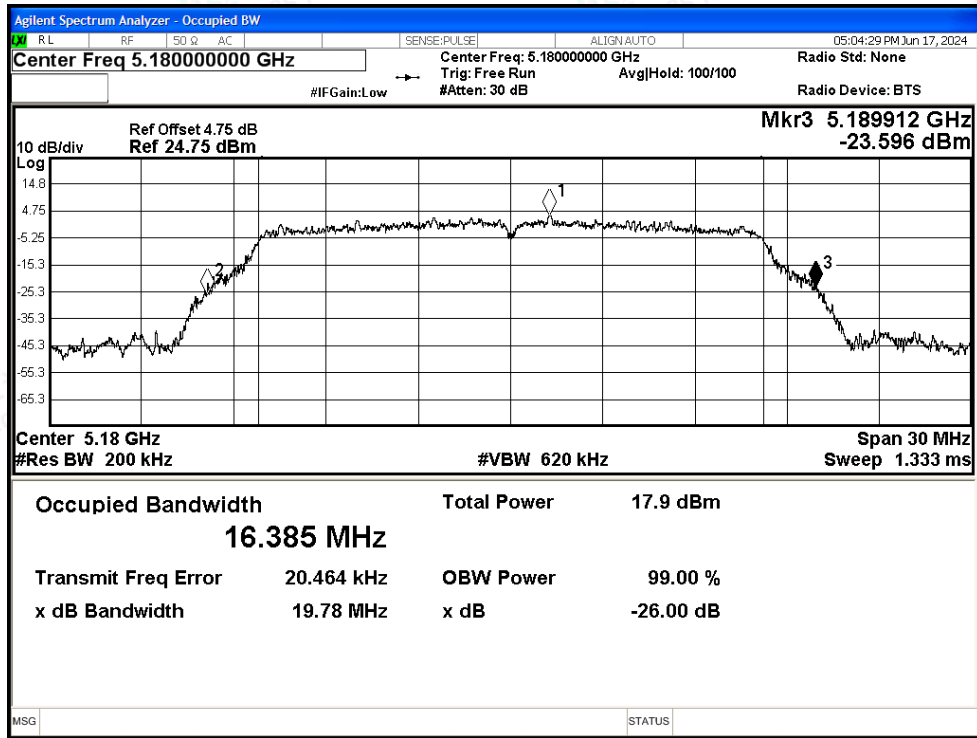
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant	19.783	---	Pass
NVNT	a	5200	Ant	19.848	---	Pass
NVNT	a	5240	Ant	19.606	---	Pass
NVNT	n20	5180	Ant	22.849	---	Pass
NVNT	n20	5200	Ant	27.312	---	Pass
NVNT	n20	5240	Ant	25.973	---	Pass
NVNT	n40	5190	Ant	45.531	---	Pass
NVNT	n40	5230	Ant	48.938	---	Pass
NVNT	ac20	5180	Ant	28.079	---	Pass
NVNT	ac20	5200	Ant	25.004	---	Pass
NVNT	ac20	5240	Ant	23.649	---	Pass
NVNT	ac40	5190	Ant	42.989	---	Pass
NVNT	ac40	5230	Ant	45.155	---	Pass
NVNT	ac80	5210	Ant	81.436	---	Pass



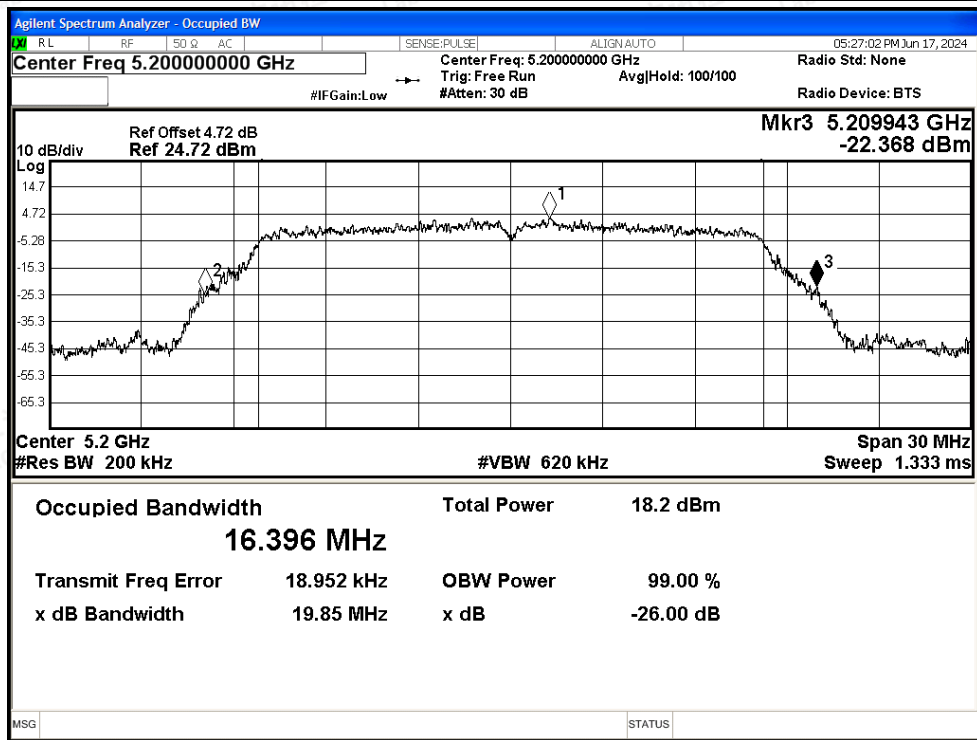


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant

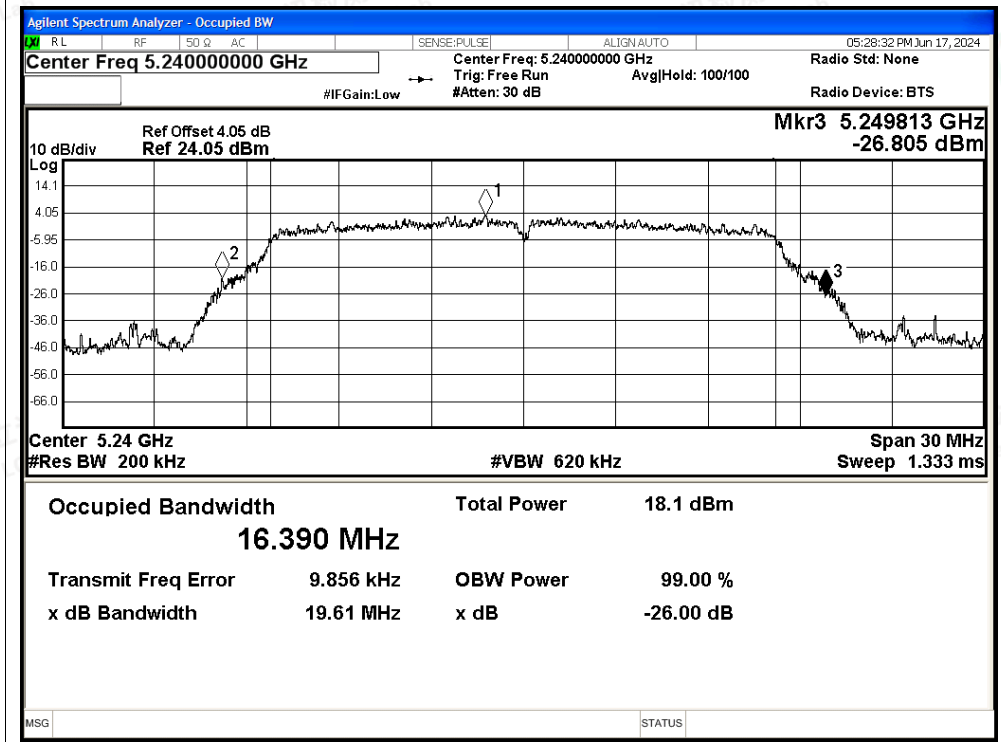


-26dB Bandwidth NVNT a 5200MHz Ant

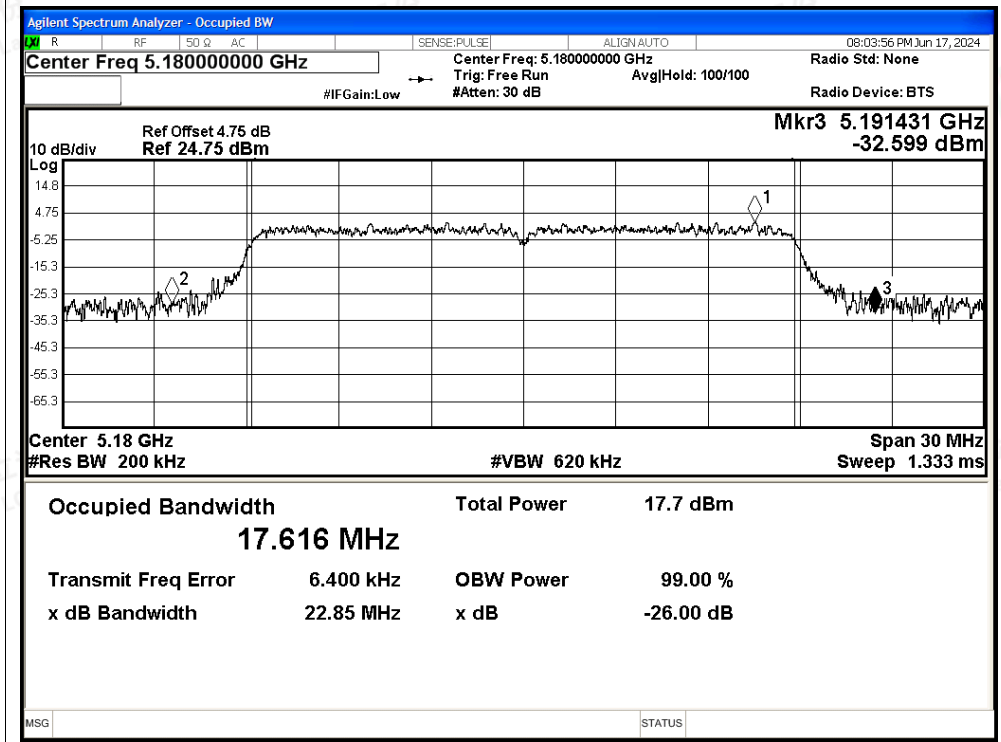




-26dB Bandwidth NVNT a 5240MHz Ant

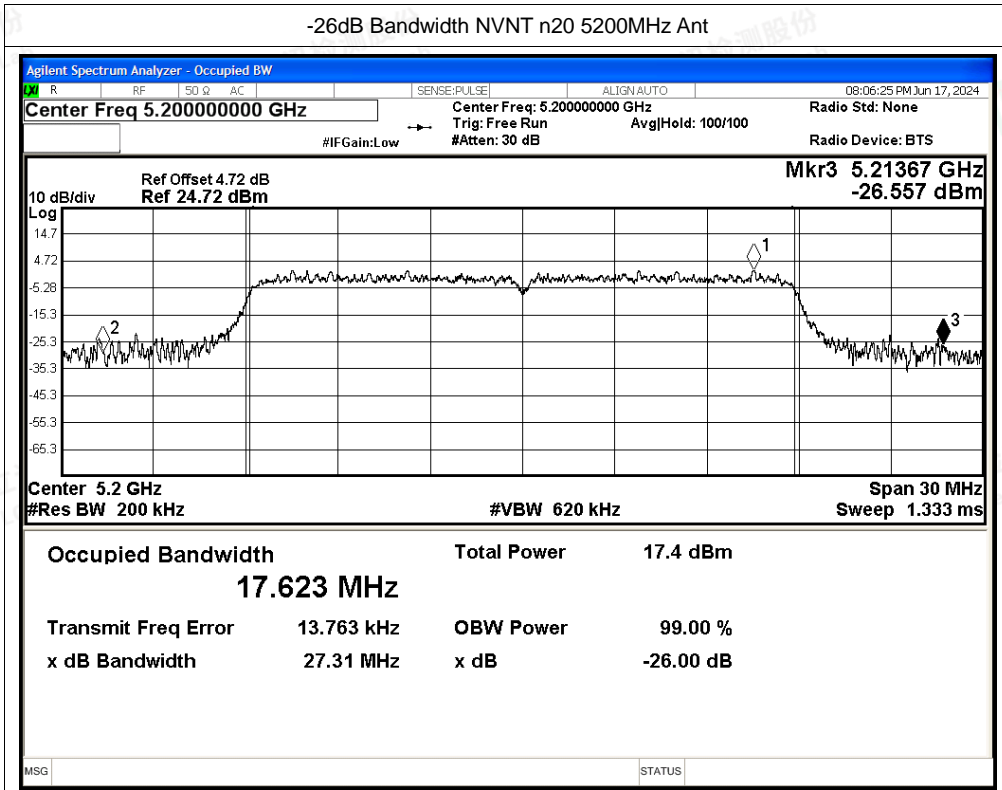


-26dB Bandwidth NVNT n20 5180MHz Ant

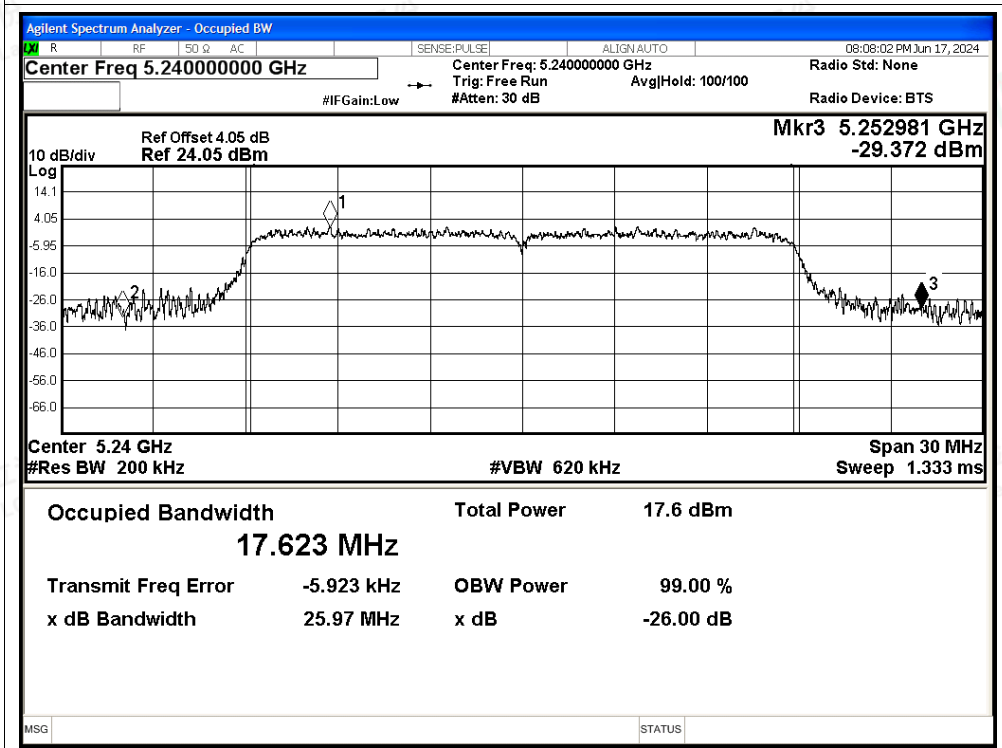




-26dB Bandwidth NVNT n20 5200MHz Ant

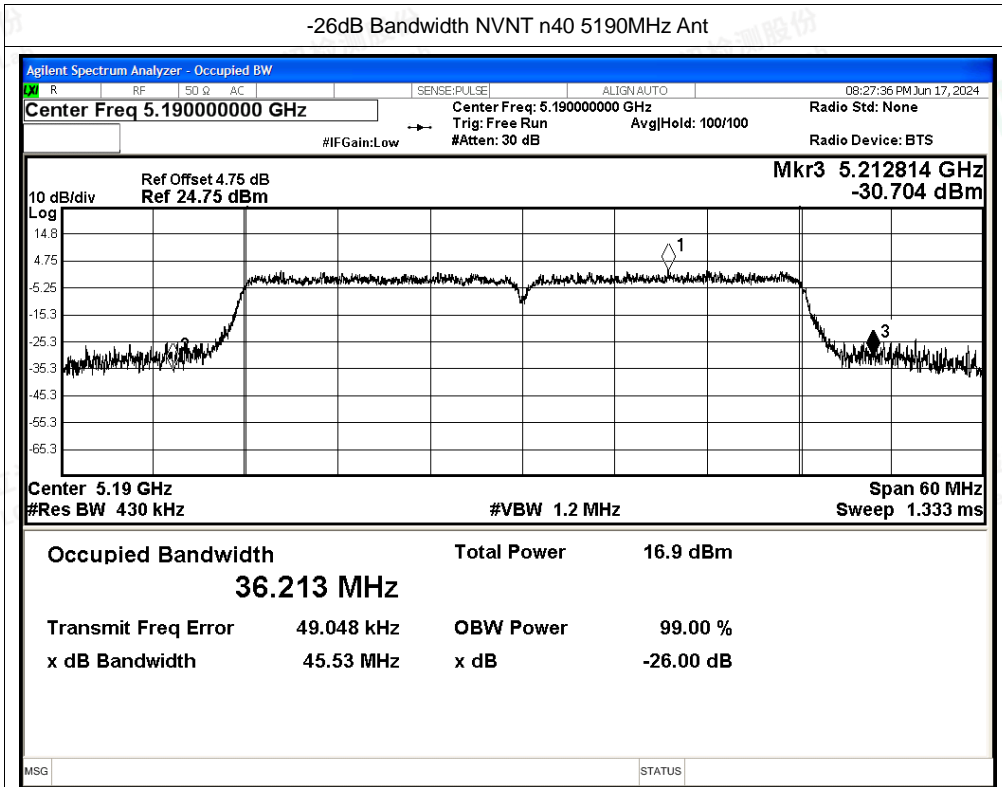


-26dB Bandwidth NVNT n20 5240MHz Ant

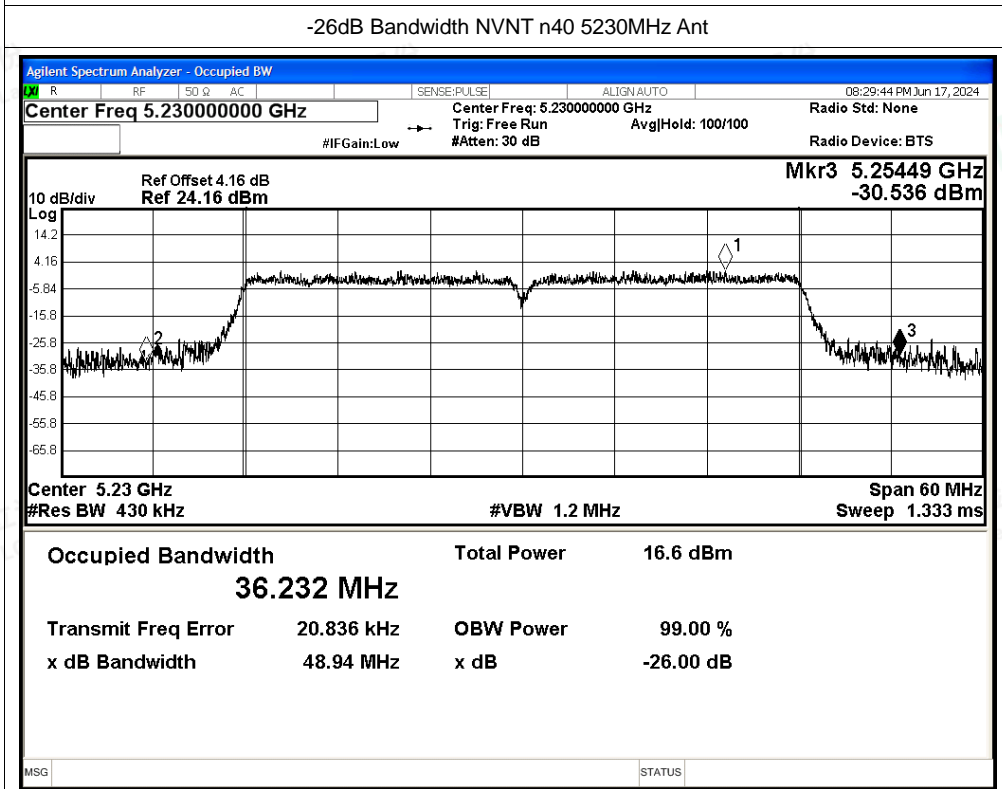




-26dB Bandwidth NVNT n40 5190MHz Ant

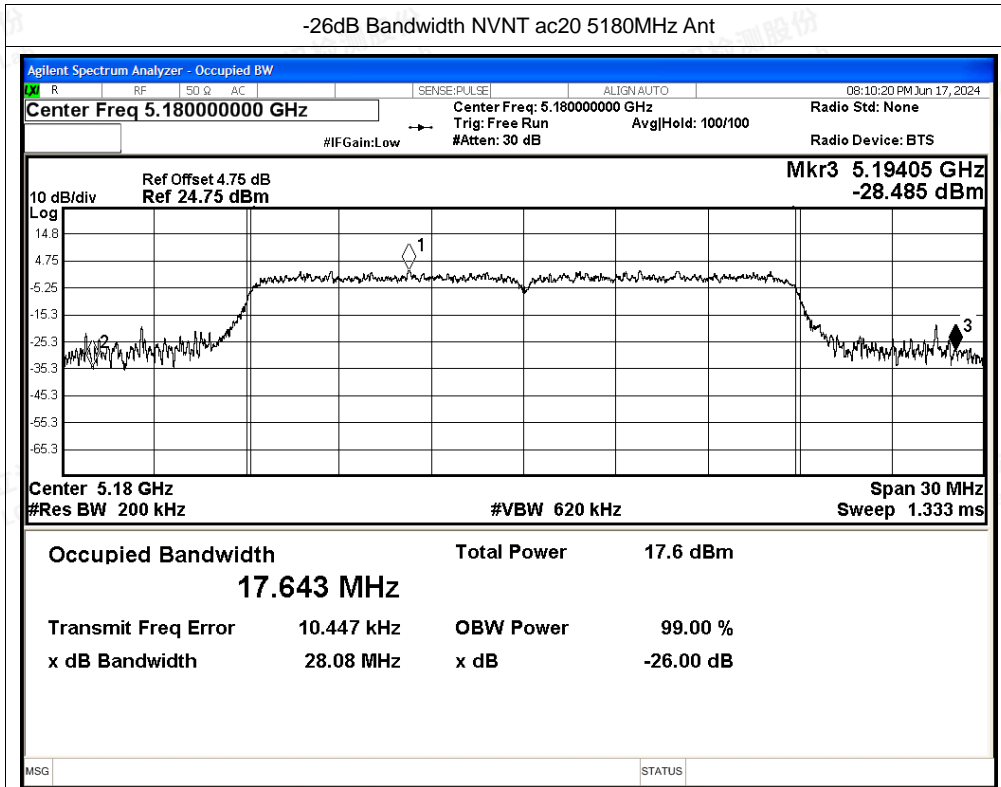


-26dB Bandwidth NVNT n40 5230MHz Ant

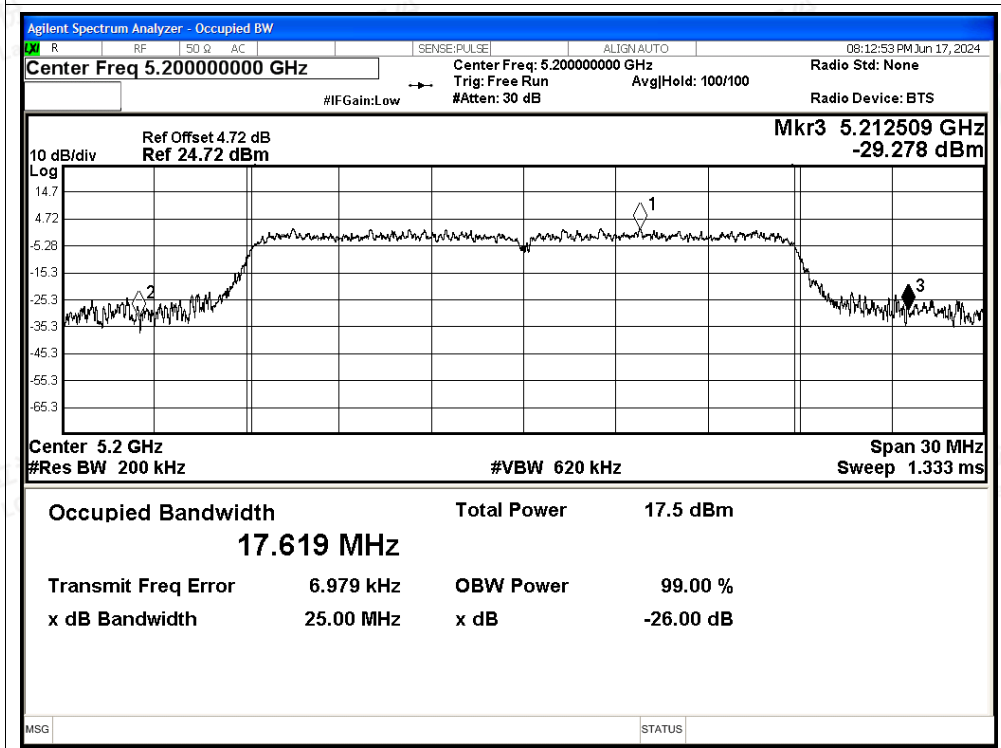




-26dB Bandwidth NVNT ac20 5180MHz Ant

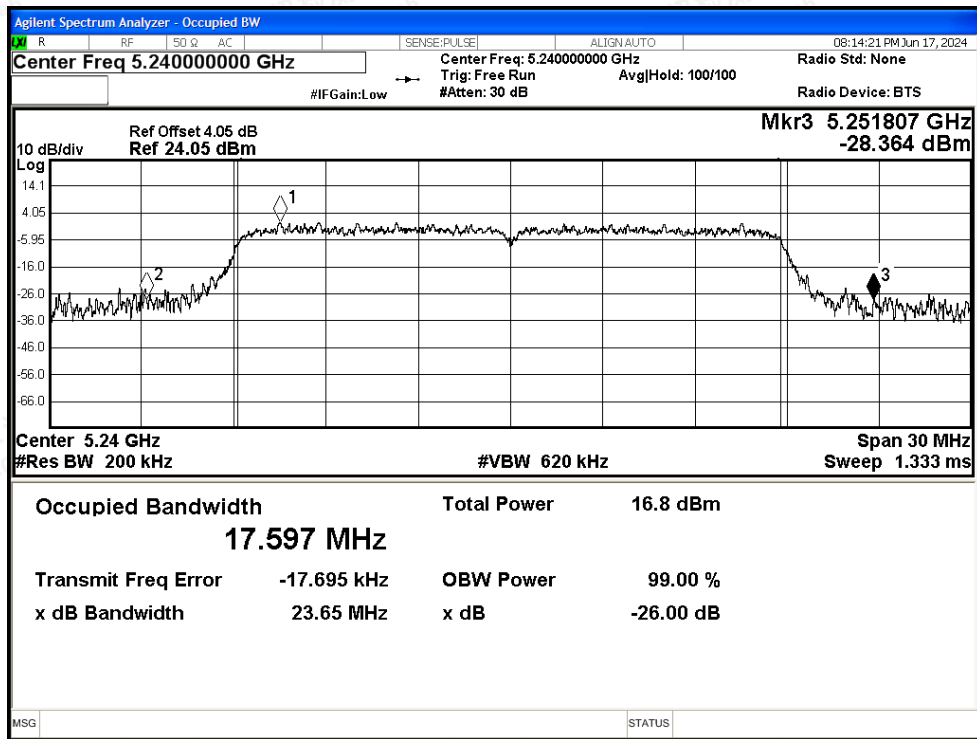


-26dB Bandwidth NVNT ac20 5200MHz Ant

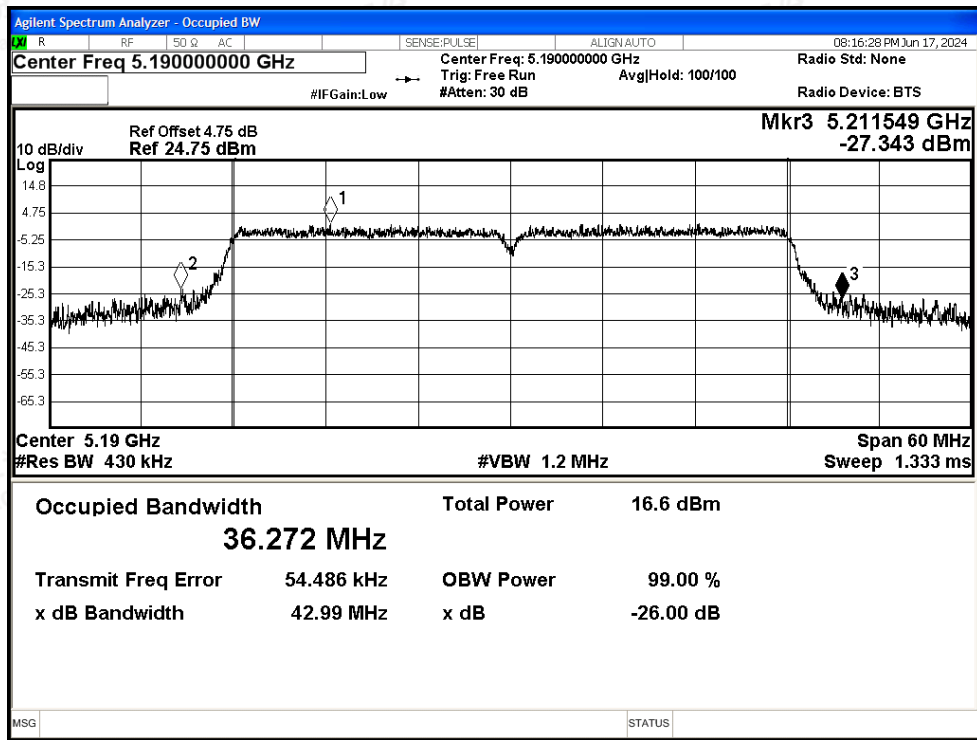




-26dB Bandwidth NVNT ac20 5240MHz Ant

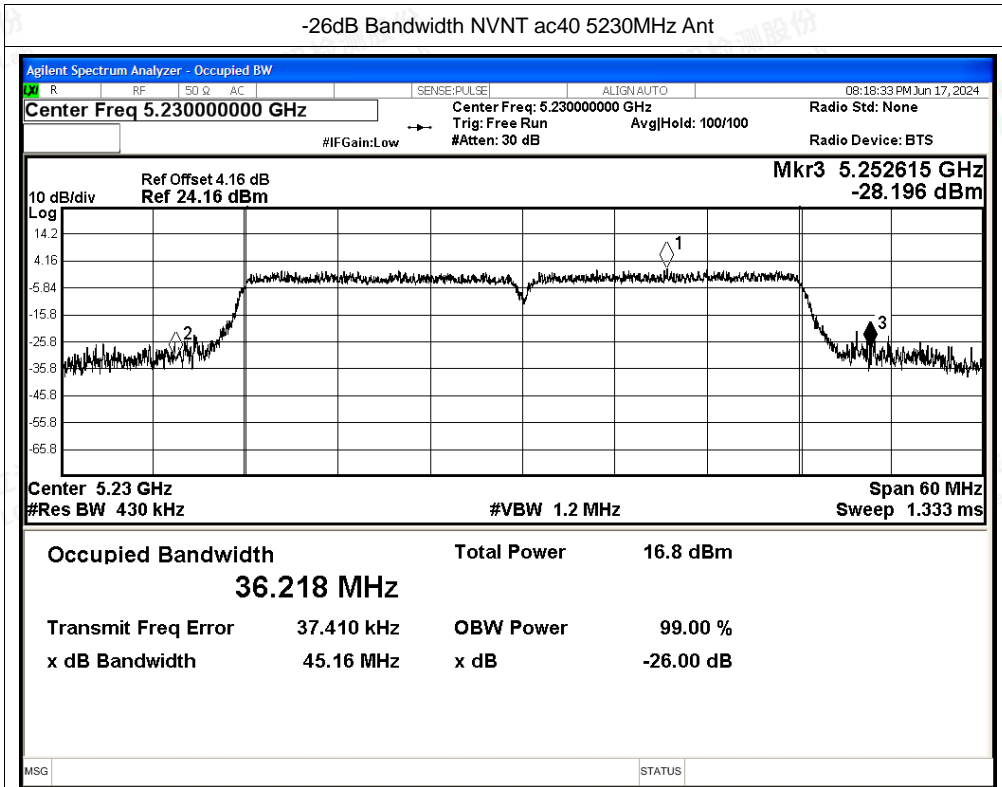


-26dB Bandwidth NVNT ac40 5190MHz Ant

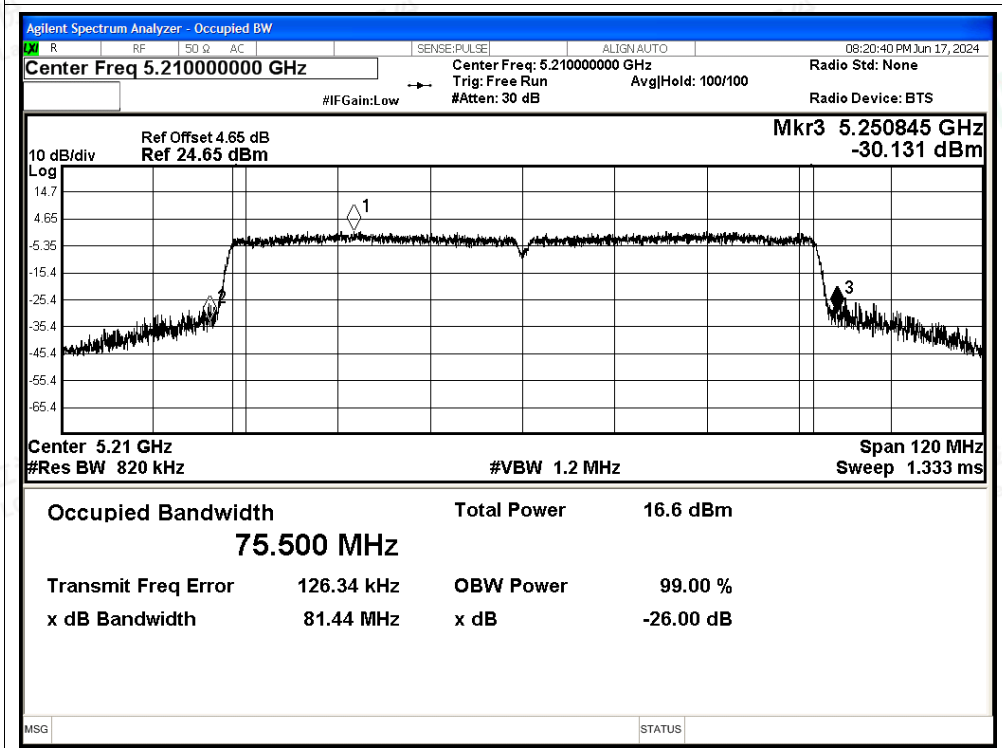




-26dB Bandwidth NVNT ac40 5230MHz Ant



-26dB Bandwidth NVNT ac80 5210MHz Ant





B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant	17.89	0.17	18.06	24	Pass
NVNT	a	5200	Ant	17.11	0.17	17.28	24	Pass
NVNT	a	5240	Ant	17.45	0.17	17.62	24	Pass
NVNT	n20	5180	Ant	17.23	0.28	17.51	24	Pass
NVNT	n20	5200	Ant	17.12	0.28	17.40	24	Pass
NVNT	n20	5240	Ant	17.50	0.28	17.78	24	Pass
NVNT	n40	5190	Ant	17.03	0.12	17.15	24	Pass
NVNT	n40	5230	Ant	17.78	0.12	17.90	24	Pass
NVNT	ac20	5180	Ant	17.72	0.28	18.00	24	Pass
NVNT	ac20	5200	Ant	17.04	0.28	17.32	24	Pass
NVNT	ac20	5240	Ant	17.78	0.28	18.06	24	Pass
NVNT	ac40	5190	Ant	17.03	0.12	17.15	24	Pass
NVNT	ac40	5230	Ant	17.88	0.12	18.00	24	Pass
NVNT	ac80	5210	Ant	17.62	0.25	17.87	24	Pass





B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant	2.44	0.17	2.61	11	Pass
NVNT	a	5200	Ant	2.98	0.17	3.15	11	Pass
NVNT	a	5240	Ant	2.62	0.17	2.79	11	Pass
NVNT	n20	5180	Ant	1.01	0.28	1.29	11	Pass
NVNT	n20	5200	Ant	0.91	0.28	1.19	11	Pass
NVNT	n20	5240	Ant	1.16	0.28	1.44	11	Pass
NVNT	n40	5190	Ant	-2.76	0.12	-2.64	11	Pass
NVNT	n40	5230	Ant	-2.74	0.12	-2.62	11	Pass
NVNT	ac20	5180	Ant	1.2	0.28	1.48	11	Pass
NVNT	ac20	5200	Ant	0.84	0.28	1.12	11	Pass
NVNT	ac20	5240	Ant	0.52	0.28	0.8	11	Pass
NVNT	ac40	5190	Ant	-2.93	0.12	-2.81	11	Pass
NVNT	ac40	5230	Ant	-2.49	0.12	-2.37	11	Pass
NVNT	ac80	5210	Ant	-6.52	0.25	-6.27	11	Pass



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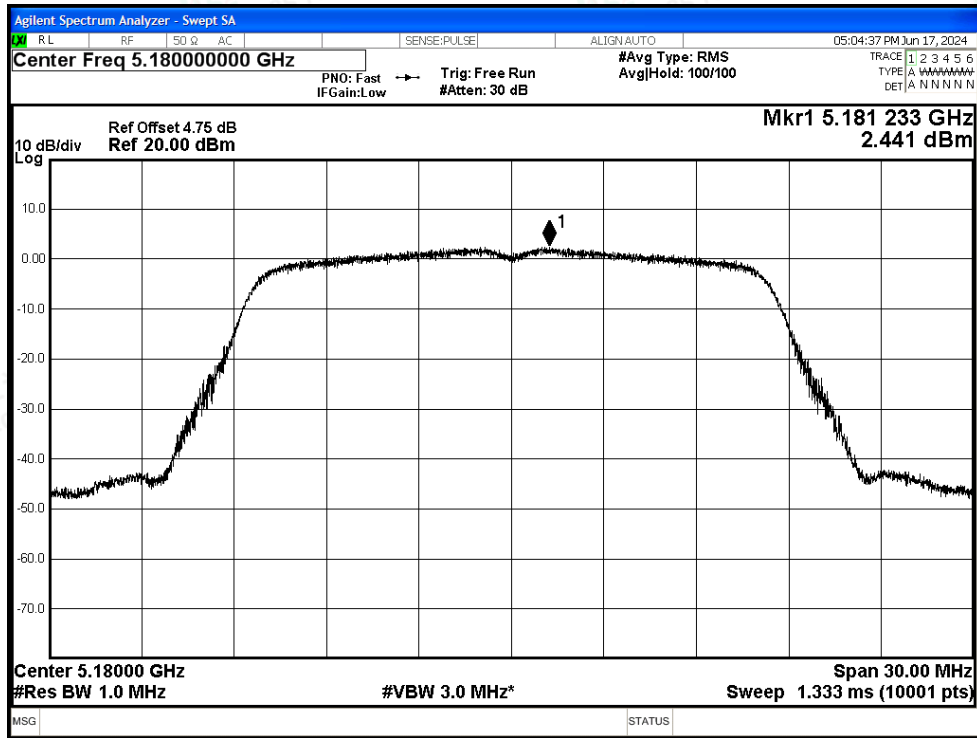
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Scan code to check authenticity

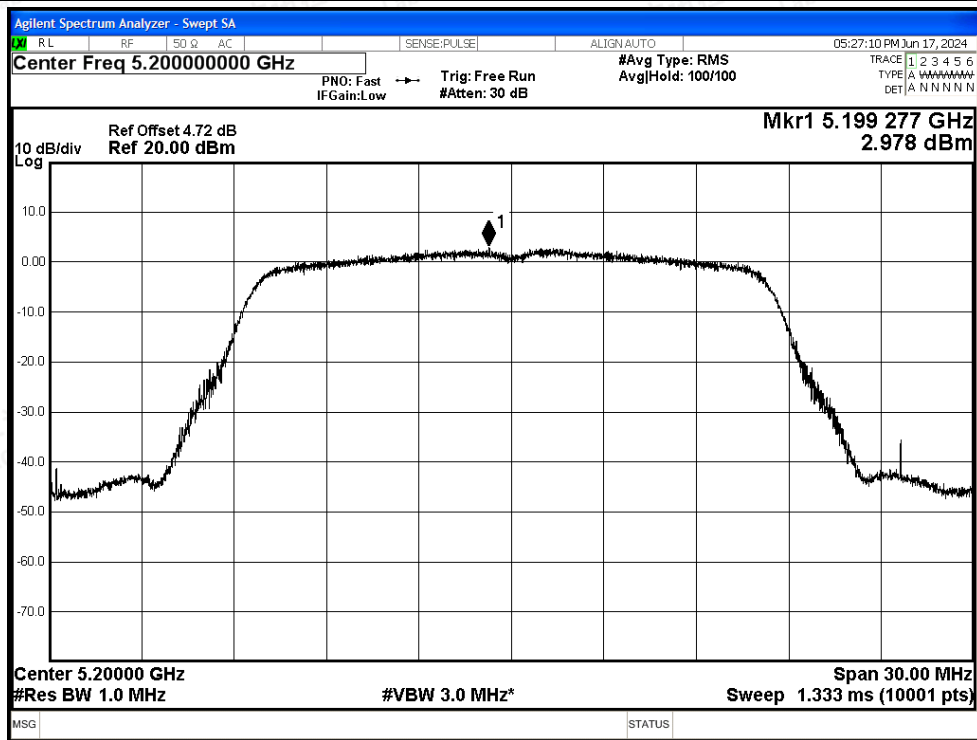


Test Graphs

PSD NVNT a 5180MHz Ant

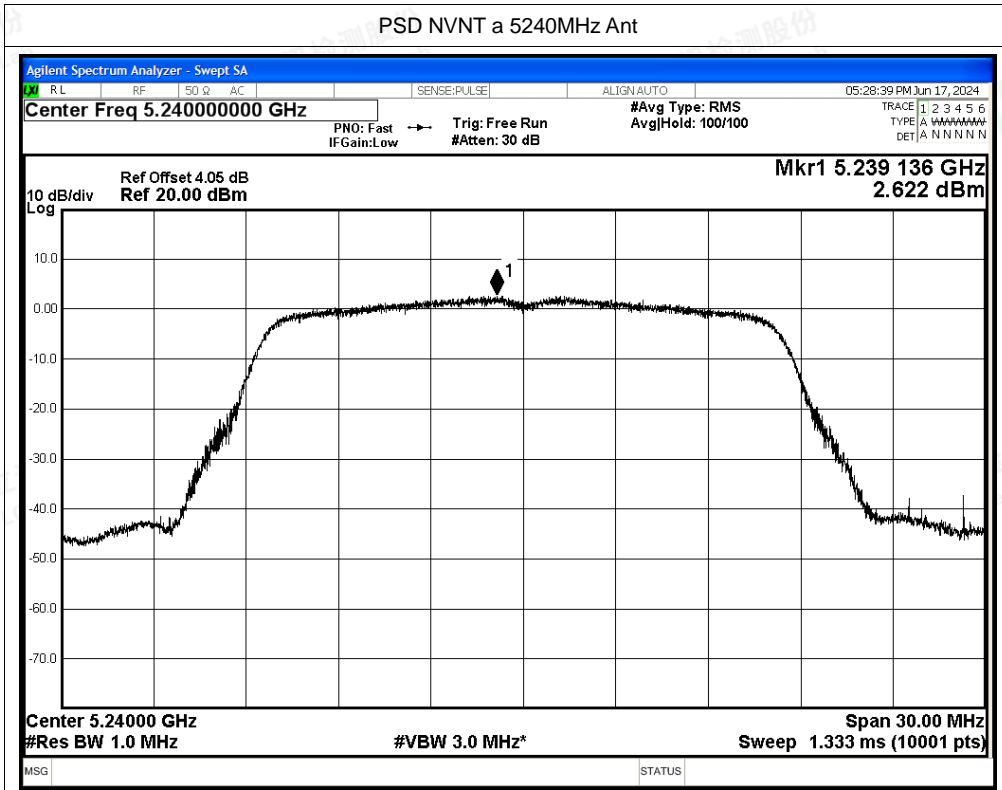


PSD NVNT a 5200MHz Ant

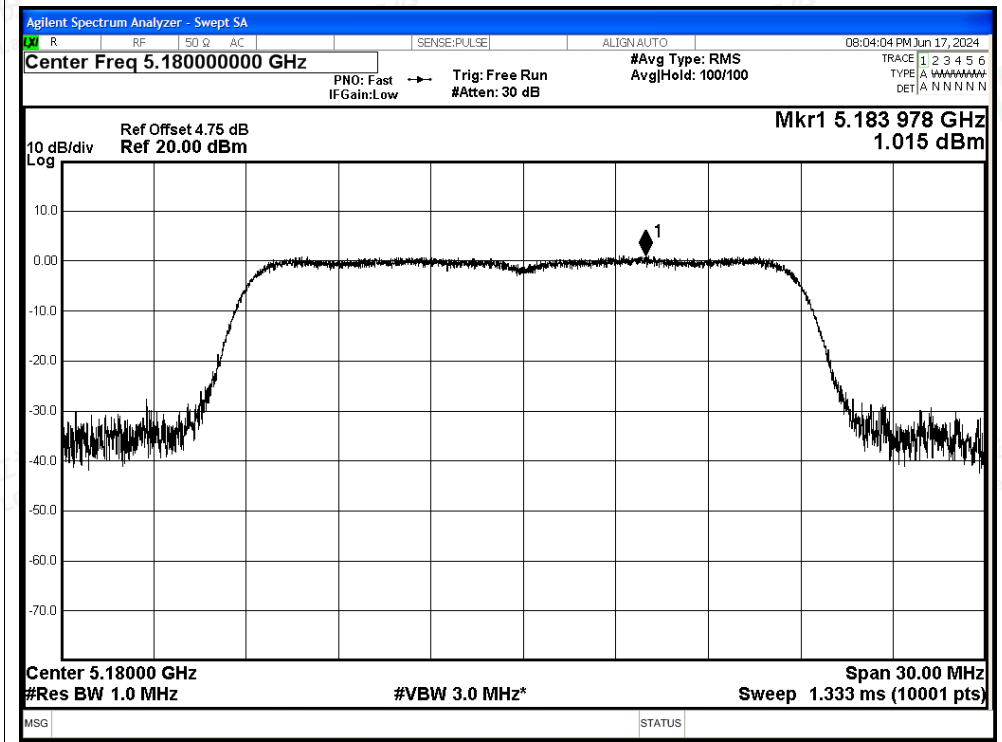


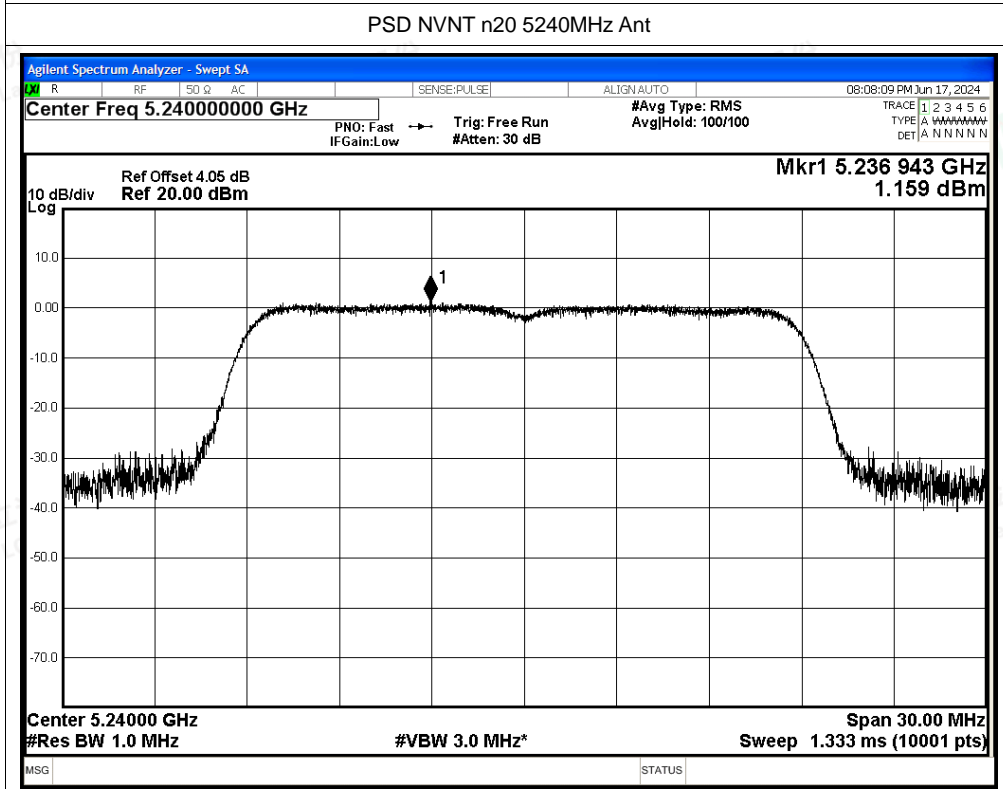
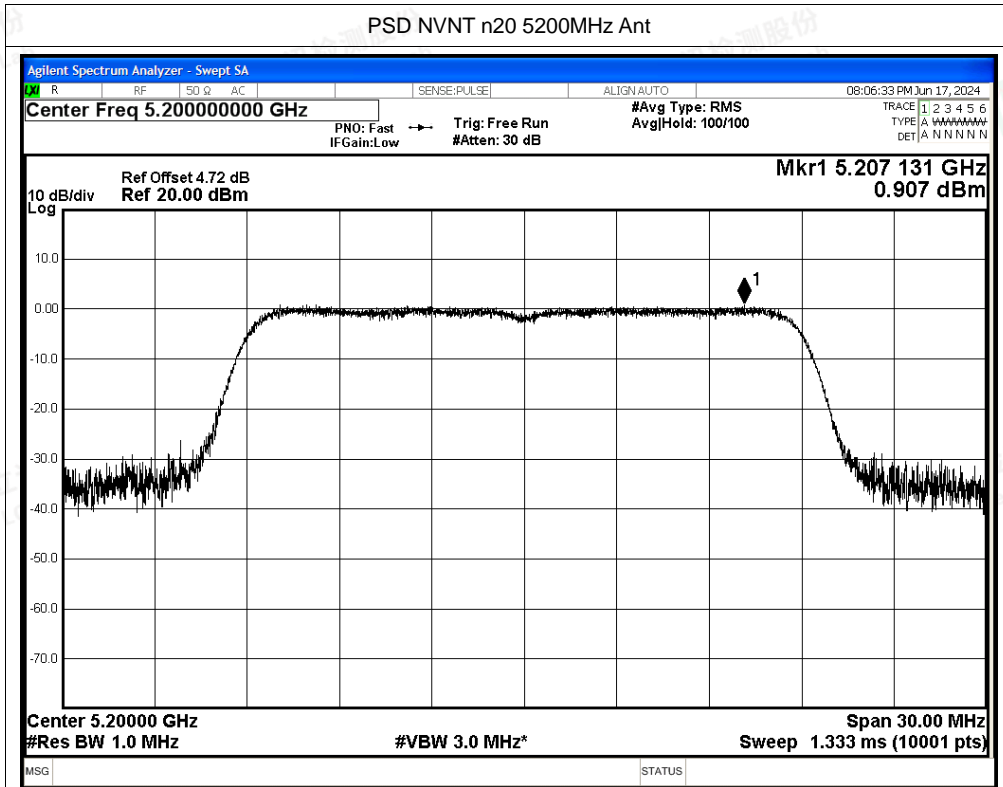


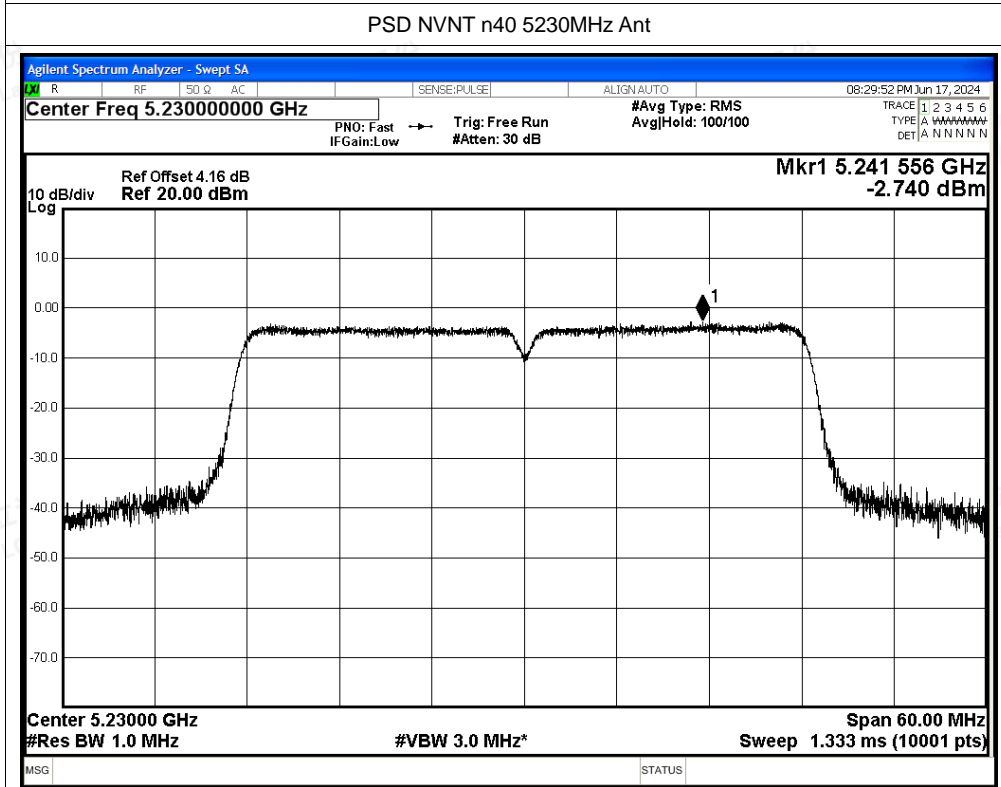
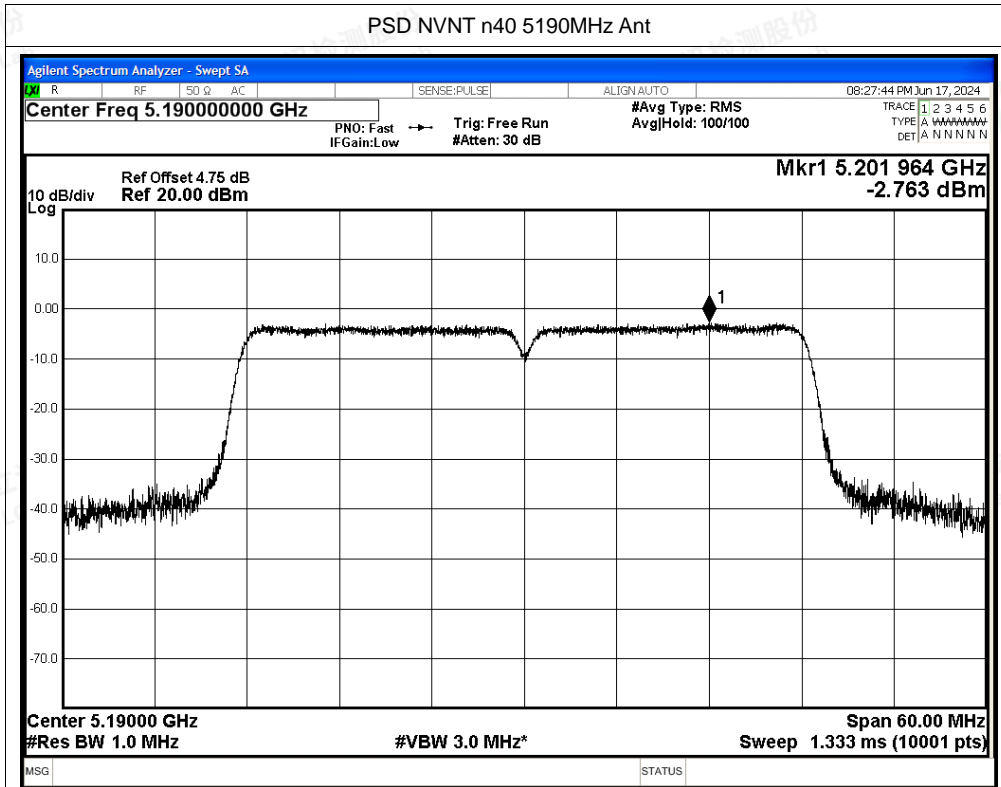
PSD NVNT a 5240MHz Ant

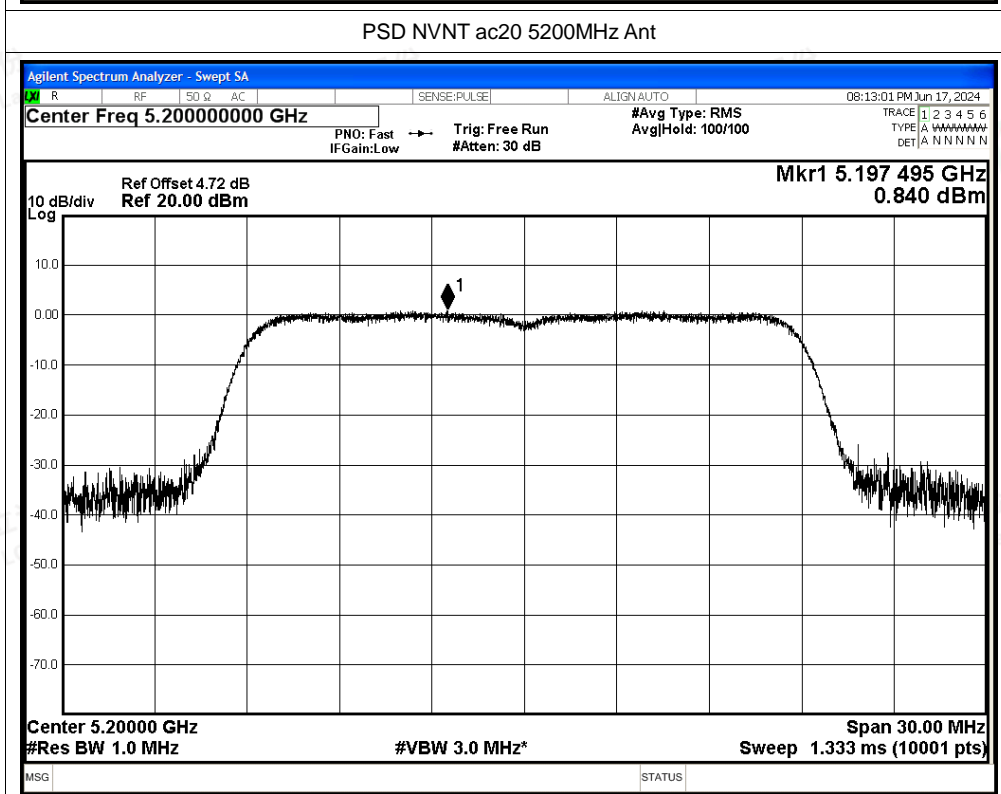
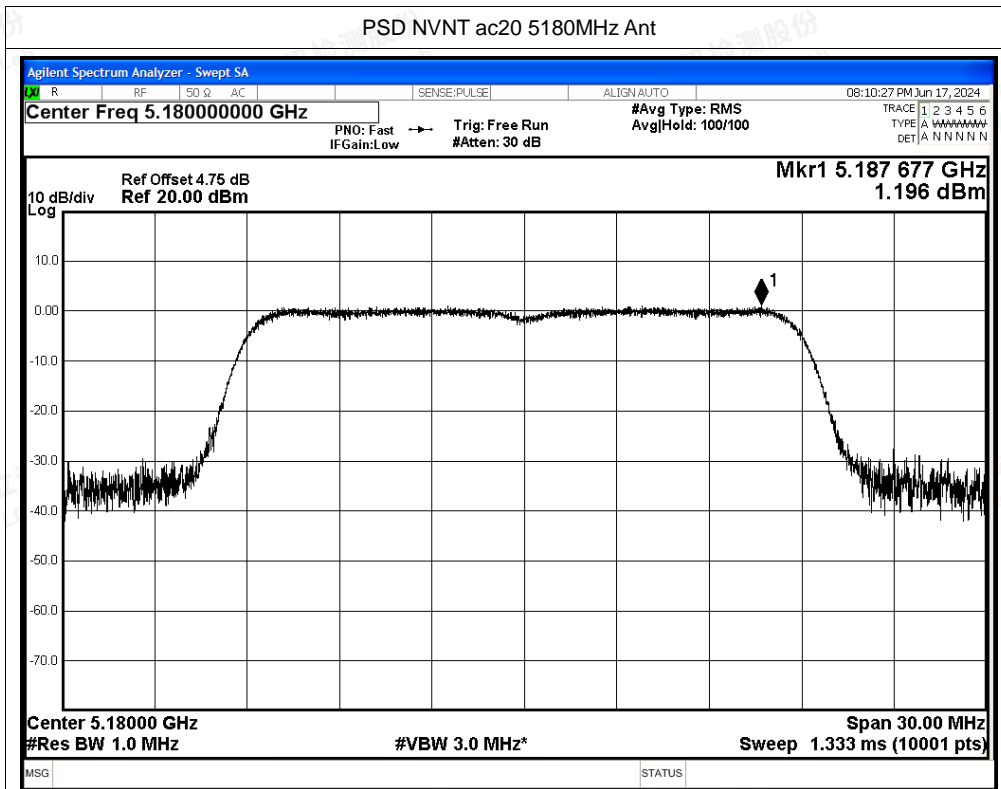


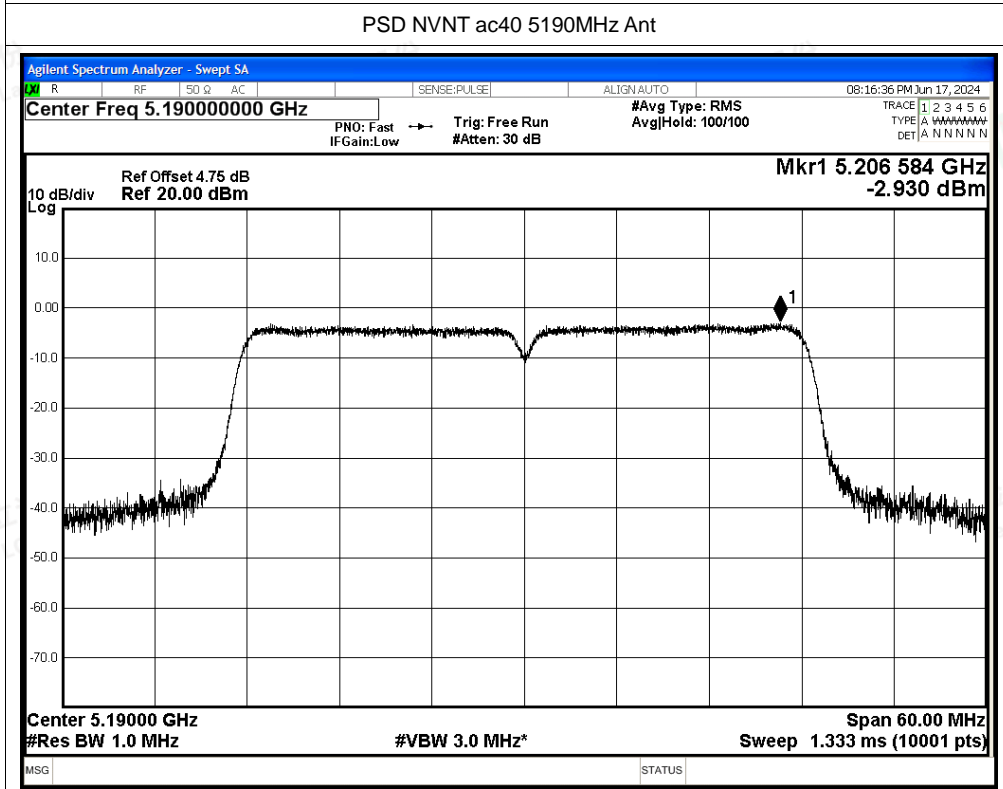
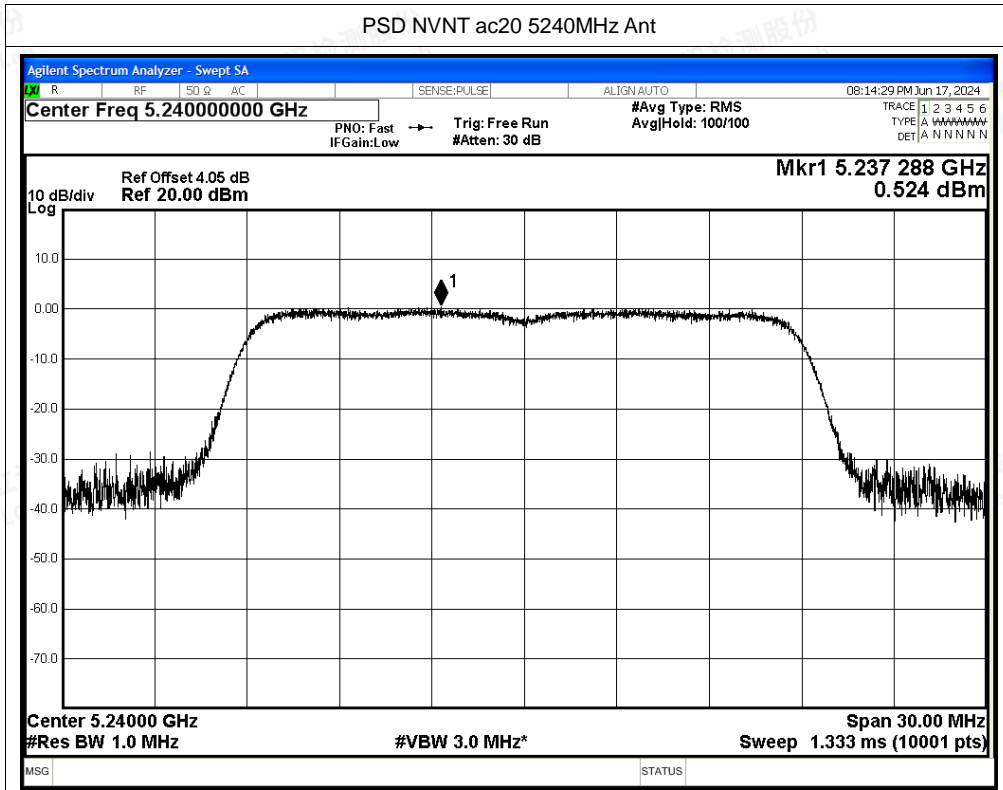
PSD NVNT n20 5180MHz Ant

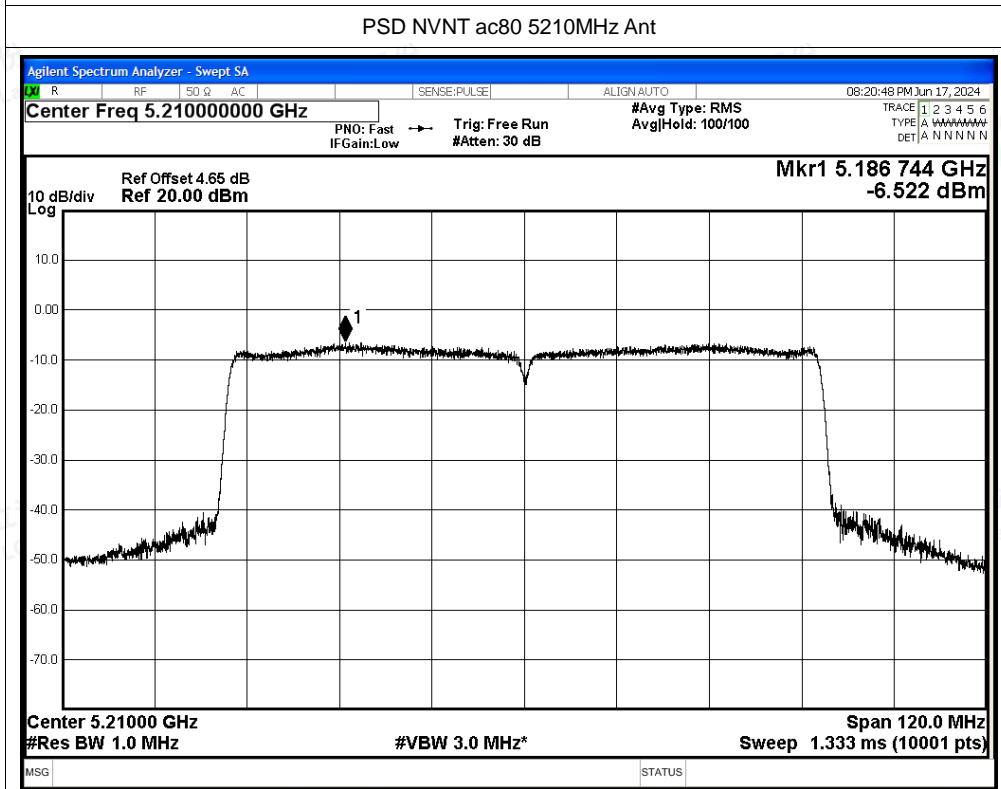
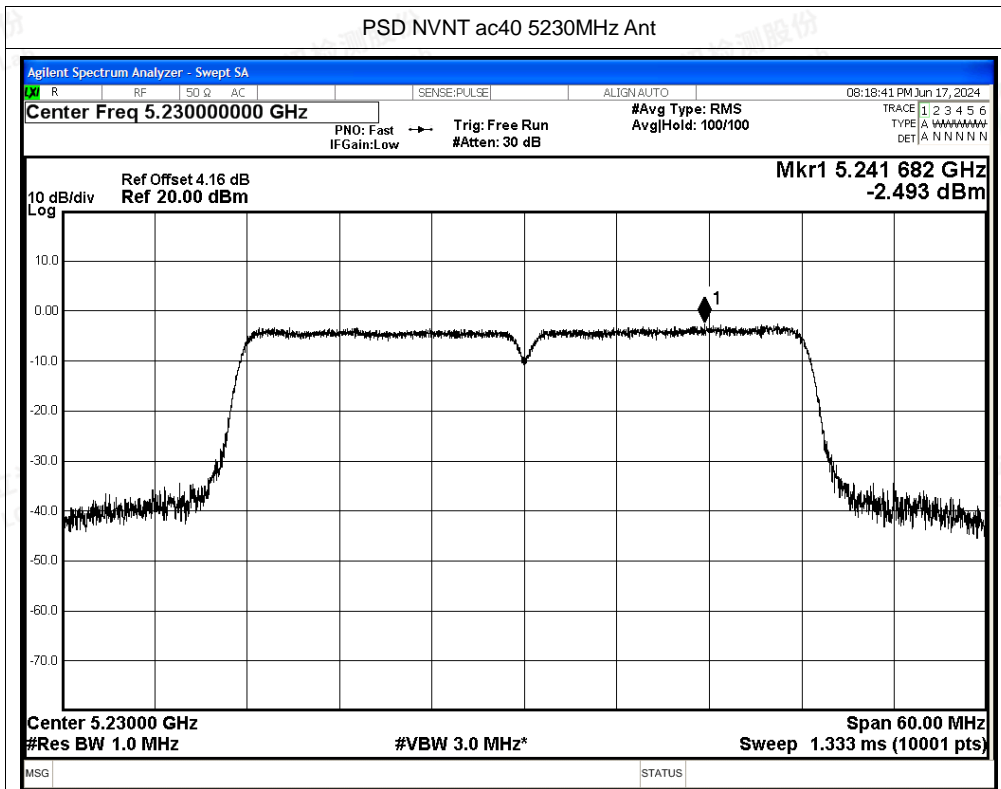














B.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBUV/m)	Detector	Limit (dBUV/m)	Verdict
NVNT	a	5180	Ant	4500	-49.24	2.35	-	48.34	Peak	68.2	Pass
NVNT	a	5180	Ant	4500	-57.47	2.35	0	40.11	Average	54	Pass
NVNT	a	5180	Ant	5074.7	-43.87	2.35	-	53.71	Peak	68.2	Pass
NVNT	a	5180	Ant	5115.3	-54.34	2.35	0	43.24	Average	54	Pass
NVNT	a	5180	Ant	5150	-46.08	2.35	-	51.50	Peak	68.2	Pass
NVNT	a	5180	Ant	5150	-54.67	2.35	0	42.91	Average	54	Pass
NVNT	a	5240	Ant	5350	-48.65	2.35	-	48.93	Peak	68.2	Pass
NVNT	a	5240	Ant	5350	-56.64	2.35	0.17	41.11	Average	54	Pass
NVNT	a	5240	Ant	5375.28	-46.33	2.35	-	51.25	Peak	68.2	Pass
NVNT	a	5240	Ant	5358.48	-56	2.35	0.17	41.75	Average	54	Pass
NVNT	a	5240	Ant	5460	-48.31	2.35	-	49.27	Peak	68.2	Pass
NVNT	a	5240	Ant	5460	-57.09	2.35	0.17	40.66	Average	54	Pass
NVNT	n20	5180	Ant	4500	-48.42	2.35	-	49.16	Peak	68.2	Pass
NVNT	n20	5180	Ant	4500	-56.87	2.35	0.28	40.99	Average	54	Pass
NVNT	n20	5180	Ant	5149.6	-44.57	2.35	-	53.01	Peak	68.2	Pass
NVNT	n20	5180	Ant	5149.6	-54.53	2.35	0.28	43.33	Average	54	Pass
NVNT	n20	5180	Ant	5150	-43.64	2.35	-	53.94	Peak	68.2	Pass
NVNT	n20	5180	Ant	5150	-54.38	2.35	0.28	43.48	Average	54	Pass
NVNT	n20	5240	Ant	5350	-50.05	2.35	-	47.53	Peak	68.2	Pass
NVNT	n20	5240	Ant	5350	-57.83	2.35	0.28	40.03	Average	54	Pass
NVNT	n20	5240	Ant	5418.72	-46.79	2.35	-	50.79	Peak	68.2	Pass
NVNT	n20	5240	Ant	5402.88	-56.46	2.35	0.28	41.40	Average	54	Pass
NVNT	n20	5240	Ant	5460	-49.56	2.35	-	48.02	Peak	68.2	Pass
NVNT	n20	5240	Ant	5460	-56.94	2.35	0.28	40.92	Average	54	Pass
NVNT	n40	5190	Ant	4500	-50.74	2.35	-	46.84	Peak	68.2	Pass
NVNT	n40	5190	Ant	4500	-57.23	2.35	0.12	40.47	Average	54	Pass
NVNT	n40	5190	Ant	5147.51	-43.67	2.35	-	53.91	Peak	68.2	Pass
NVNT	n40	5190	Ant	5148.97	-54.49	2.35	0.12	43.21	Average	54	Pass
NVNT	n40	5190	Ant	5150	-46.54	2.35	-	51.04	Peak	68.2	Pass
NVNT	n40	5190	Ant	5150	-54.55	2.35	0.12	43.15	Average	54	Pass
NVNT	n40	5230	Ant	5350	-50.17	2.35	-	47.41	Peak	68.2	Pass
NVNT	n40	5230	Ant	5350	-56.81	2.35	0	40.77	Average	54	Pass
NVNT	n40	5230	Ant	5390.88	-46.44	2.35	-	51.14	Peak	68.2	Pass
NVNT	n40	5230	Ant	5387.91	-56.37	2.35	0	41.21	Average	54	Pass
NVNT	n40	5230	Ant	5460	-48.5	2.35	-	49.08	Peak	68.2	Pass
NVNT	n40	5230	Ant	5460	-57.18	2.35	0	40.40	Average	54	Pass
NVNT	ac20	5180	Ant	4500	-48.41	2.35	-	49.17	Peak	68.2	Pass



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NVNT	ac20	5180	Ant	4500	-56.51	2.35	0.28	41.35	Average	54	Pass
NVNT	ac20	5180	Ant	5148.9	-42.98	2.35	-	54.60	Peak	68.2	Pass
NVNT	ac20	5180	Ant	5148.2	-54.7	2.35	0.28	43.16	Average	54	Pass
NVNT	ac20	5180	Ant	5150	-44.22	2.35	-	53.36	Peak	68.2	Pass
NVNT	ac20	5180	Ant	5150	-53.83	2.35	0.28	44.03	Average	54	Pass
NVNT	ac20	5240	Ant	5350	-47.97	2.35	-	49.61	Peak	68.2	Pass
NVNT	ac20	5240	Ant	5350	-57.01	2.35	0.28	40.85	Average	54	Pass
NVNT	ac20	5240	Ant	5386.8	-46.23	2.35	-	51.35	Peak	68.2	Pass
NVNT	ac20	5240	Ant	5366.16	-55.9	2.35	0.28	41.96	Average	54	Pass
NVNT	ac20	5240	Ant	5460	-49.29	2.35	-	48.29	Peak	68.2	Pass
NVNT	ac20	5240	Ant	5460	-56.87	2.35	0.28	40.99	Average	54	Pass
NVNT	ac40	5190	Ant	4500	-48.27	2.35	-	49.31	Peak	68.2	Pass
NVNT	ac40	5190	Ant	4500	-57.44	2.35	0.12	40.26	Average	54	Pass
NVNT	ac40	5190	Ant	5148.97	-43.2	2.35	-	54.38	Peak	68.2	Pass
NVNT	ac40	5190	Ant	5149.7	-53.57	2.35	0.12	44.13	Average	54	Pass
NVNT	ac40	5190	Ant	5150	-43.46	2.35	-	54.12	Peak	68.2	Pass
NVNT	ac40	5190	Ant	5150	-53.57	2.35	0.12	44.13	Average	54	Pass
NVNT	ac40	5230	Ant	5350	-49.77	2.35	-	47.81	Peak	68.2	Pass
NVNT	ac40	5230	Ant	5350	-56.28	2.35	0.12	41.42	Average	54	Pass
NVNT	ac40	5230	Ant	5457.84	-45.81	2.35	-	51.77	Peak	68.2	Pass
NVNT	ac40	5230	Ant	5381.97	-56.07	2.35	0.12	41.63	Average	54	Pass
NVNT	ac40	5230	Ant	5460	-49.64	2.35	-	47.94	Peak	68.2	Pass
NVNT	ac40	5230	Ant	5460	-57.12	2.35	0.12	40.58	Average	54	Pass
NVNT	ac80	5210	Ant	5350	-48.6	2.35	-	48.98	Peak	68.2	Pass
NVNT	ac80	5210	Ant	5350	-55.95	2.35	0.25	41.88	Average	54	Pass
NVNT	ac80	5210	Ant	5352.75	-44.5	2.35	-	53.08	Peak	68.2	Pass
NVNT	ac80	5210	Ant	5425.68	-55.88	2.35	0.25	41.95	Average	54	Pass
NVNT	ac80	5210	Ant	5460	-48.62	2.35	-	48.96	Peak	68.2	Pass
NVNT	ac80	5210	Ant	5460	-56.67	2.35	0.25	41.16	Average	54	Pass
NVNT	ac80	5210	Ant	4500	-49.53	2.35	-	48.05	Peak	68.2	Pass
NVNT	ac80	5210	Ant	4500	-57.76	2.35	0.25	40.07	Average	54	Pass
NVNT	ac80	5210	Ant	5148.59	-43.51	2.35	-	54.07	Peak	68.2	Pass
NVNT	ac80	5210	Ant	5149.38	-54.1	2.35	0.25	43.73	Average	54	Pass
NVNT	ac80	5210	Ant	5150	-43.17	2.35	-	54.41	Peak	68.2	Pass
NVNT	ac80	5210	Ant	5150	-53.33	2.35	0.25	44.50	Average	54	Pass

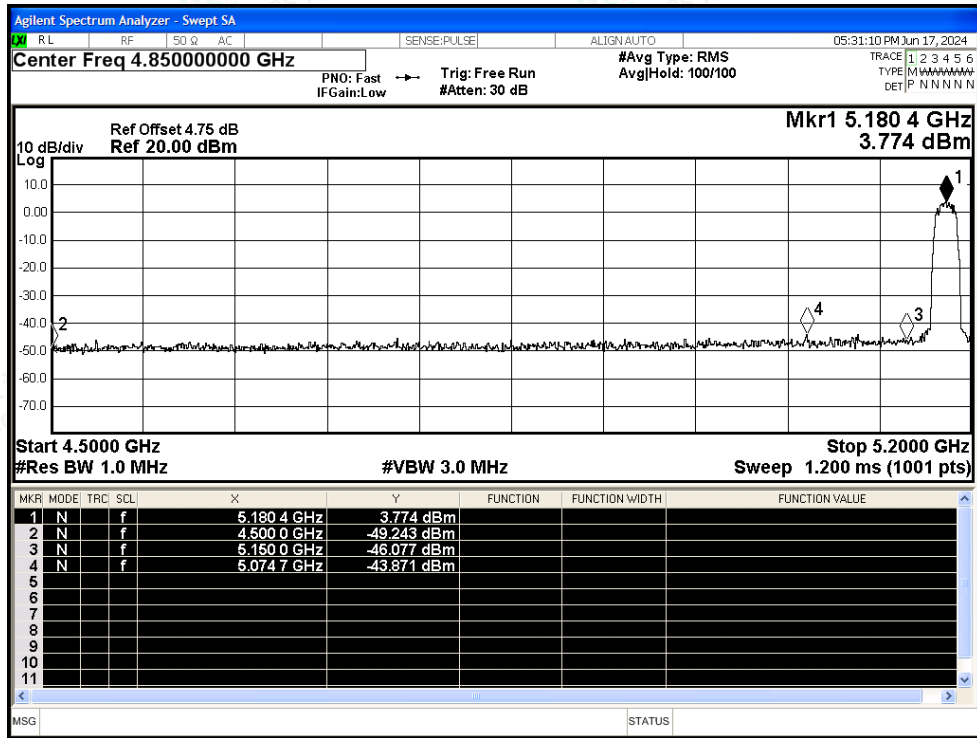


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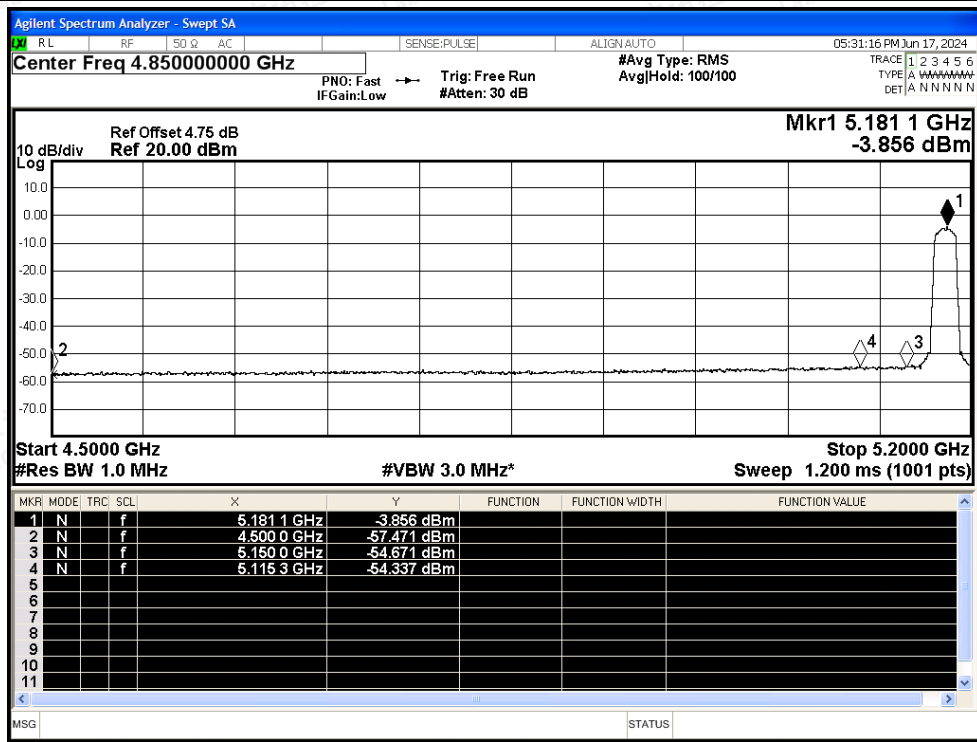


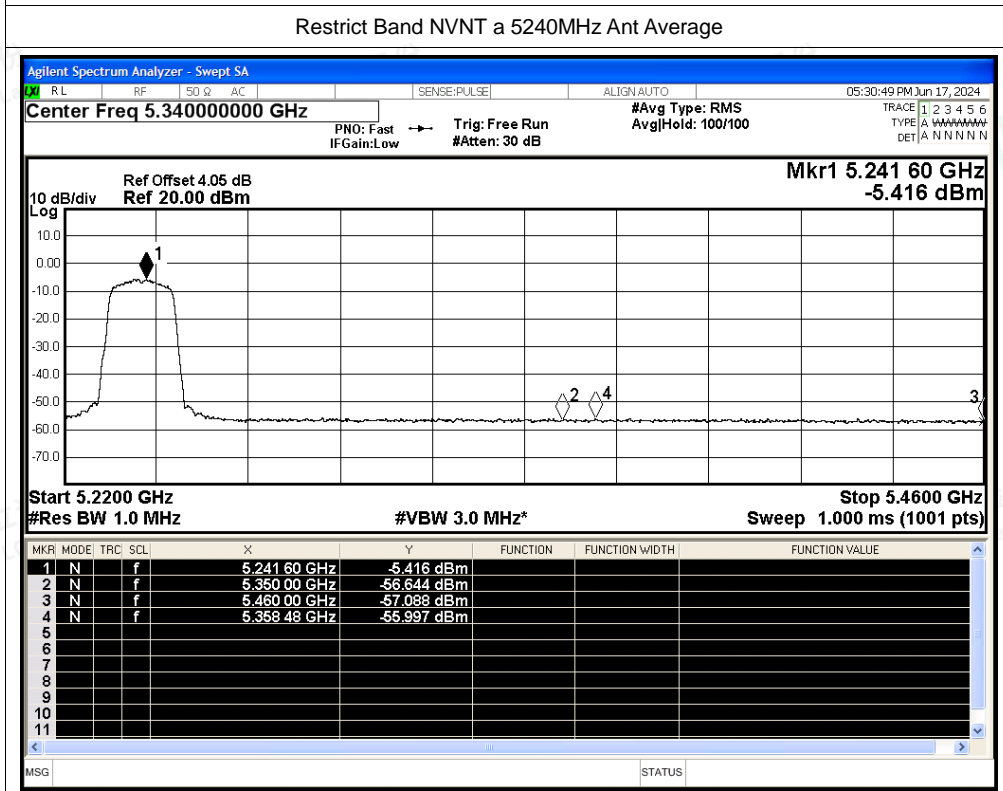
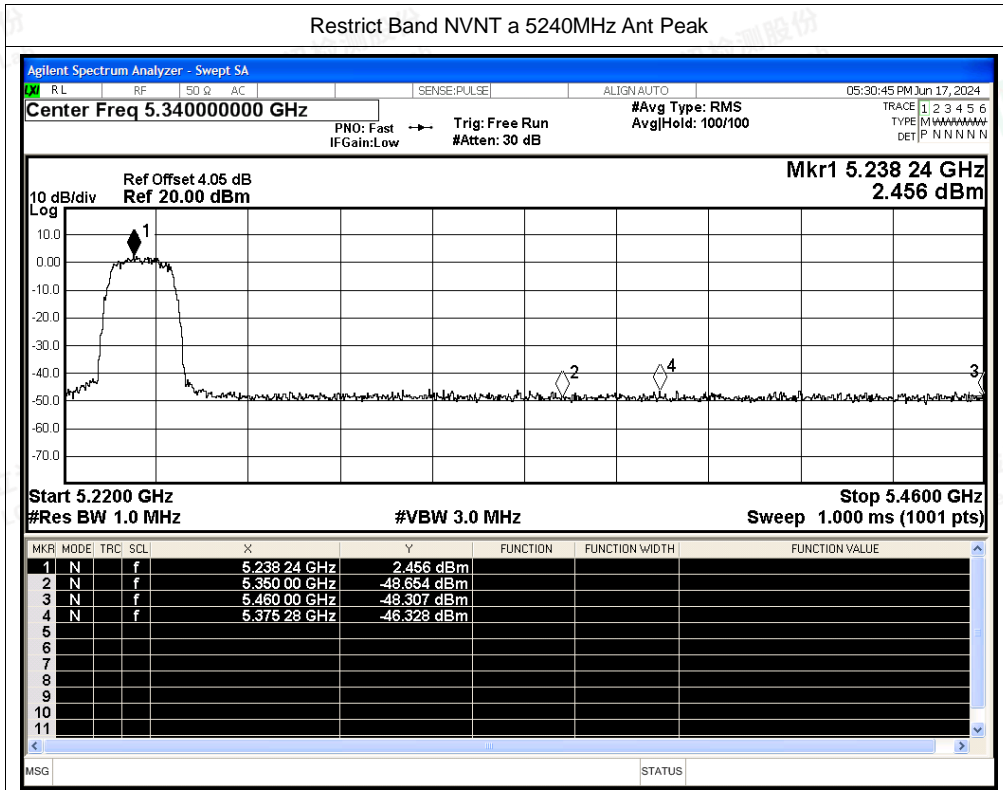
Test Graphs

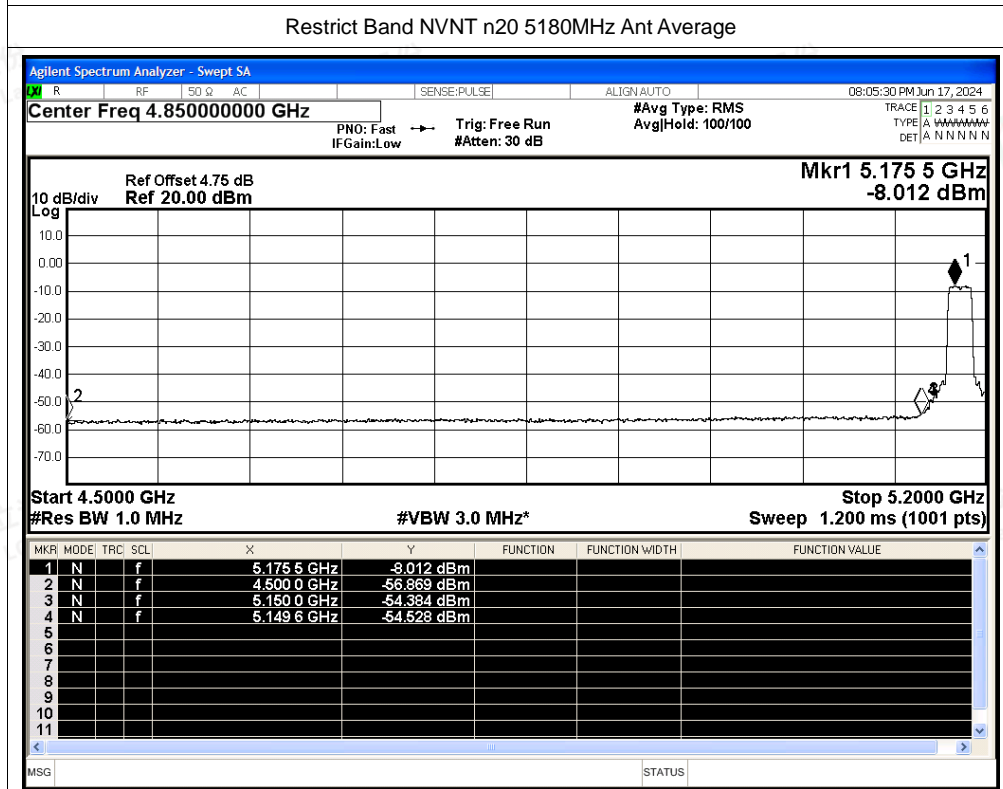
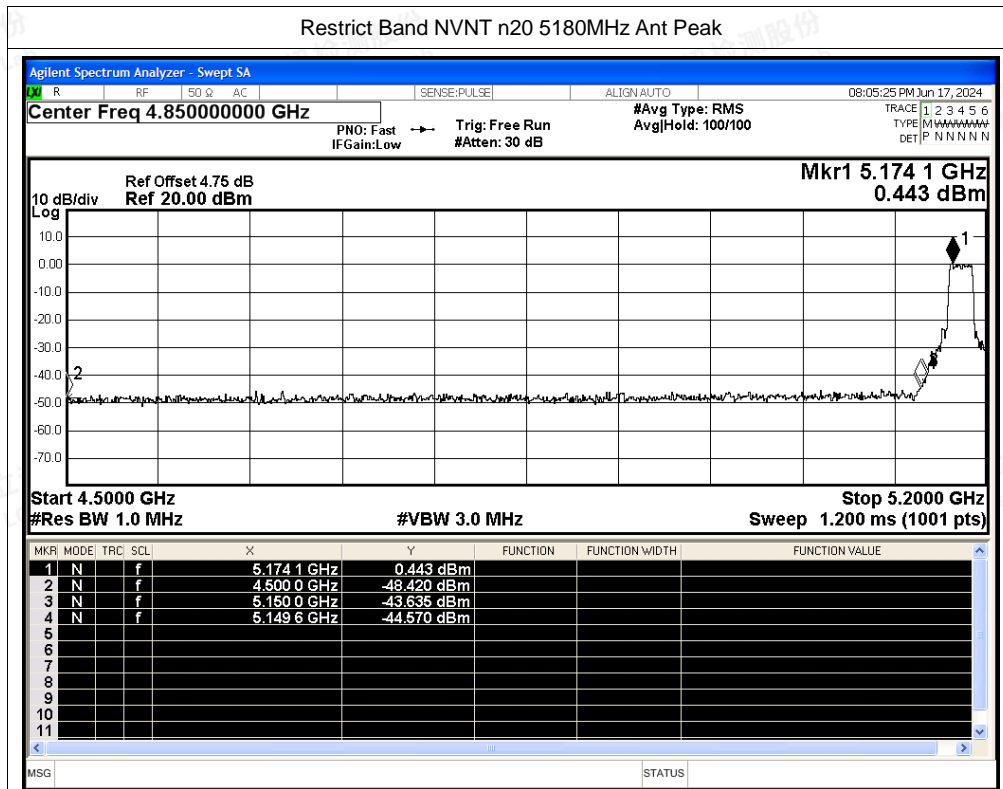
Restrict Band NVNT a 5180MHz Ant Peak

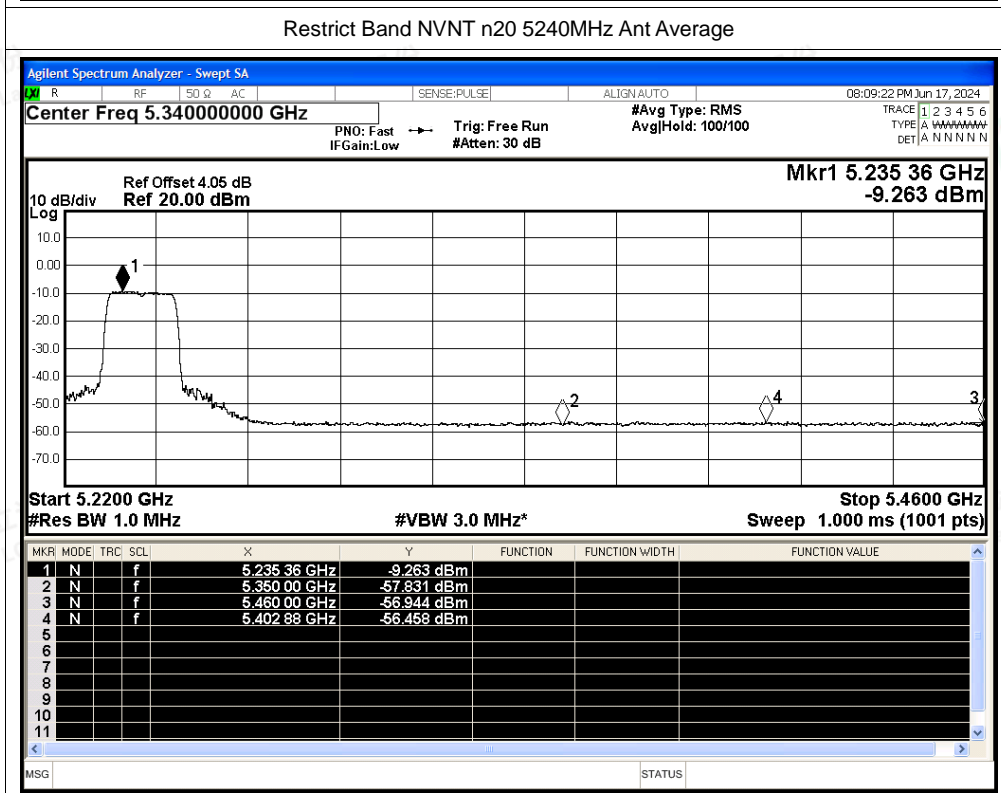
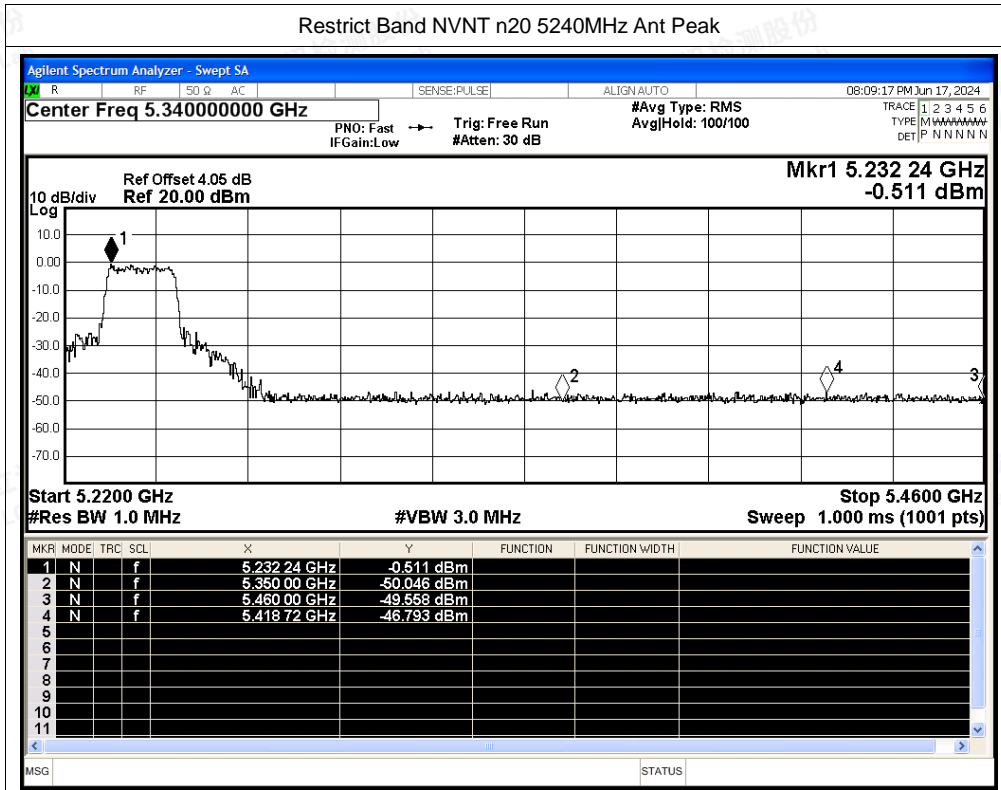


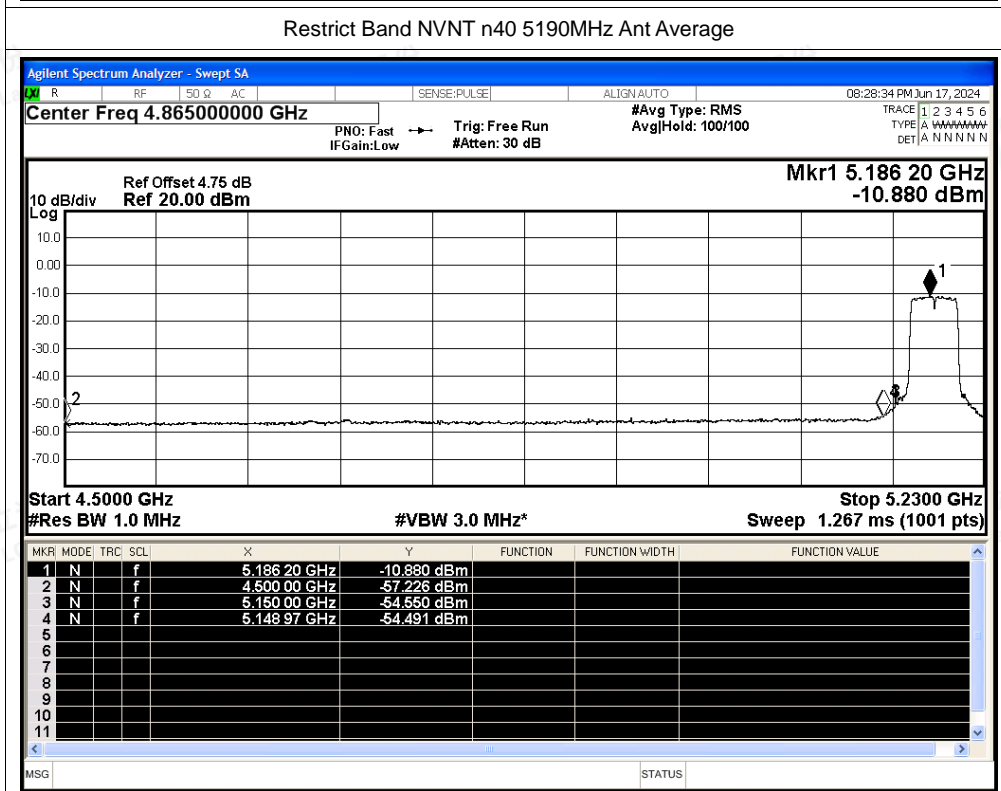
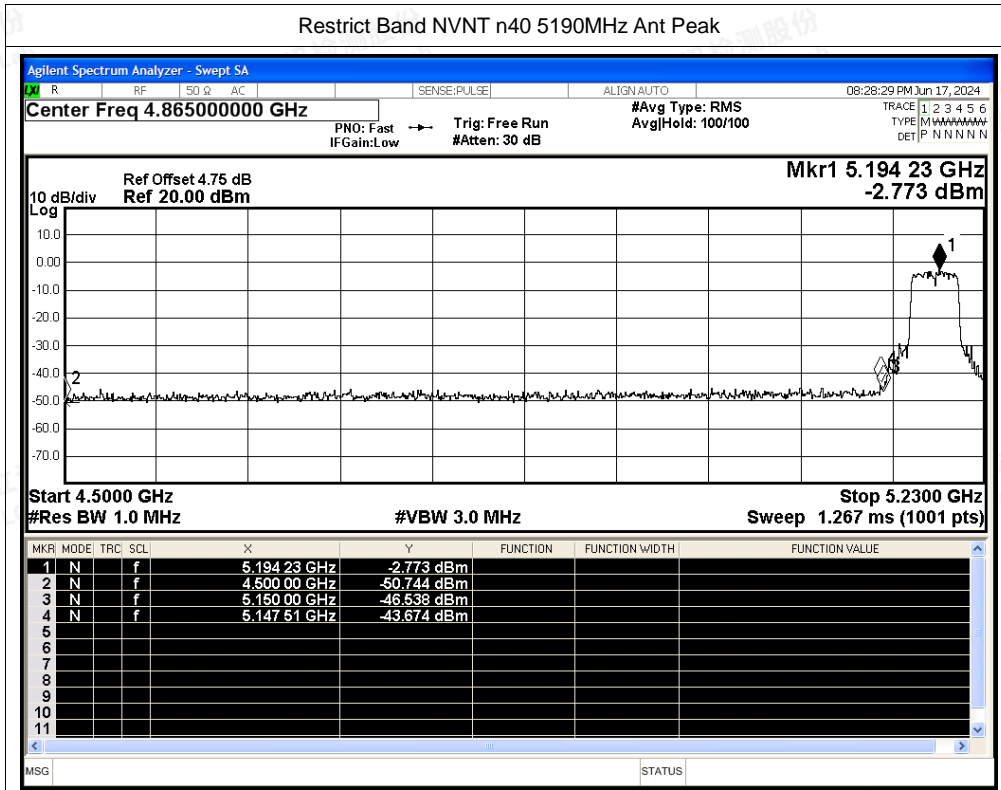
Restrict Band NVNT a 5180MHz Ant Average

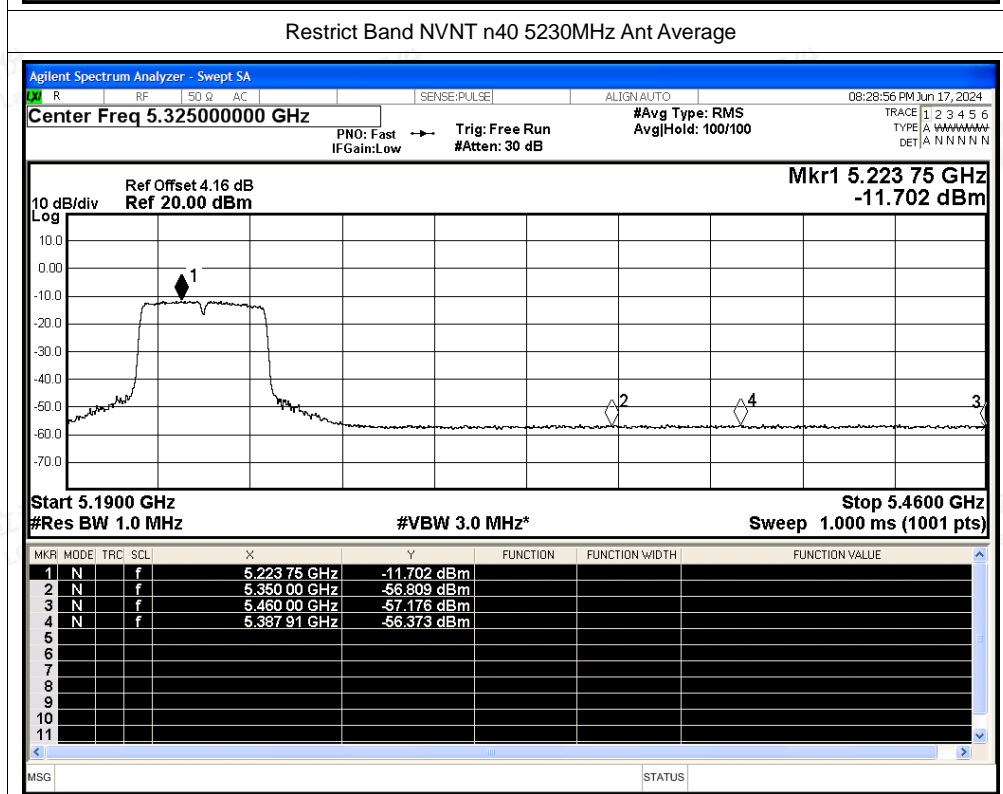
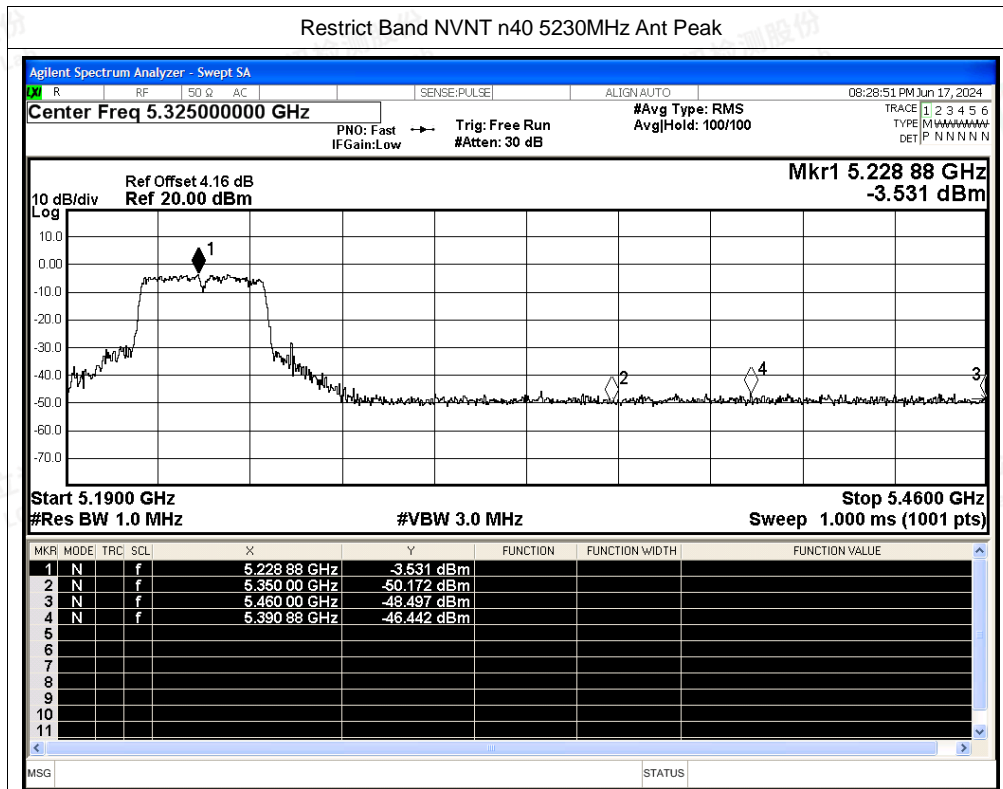


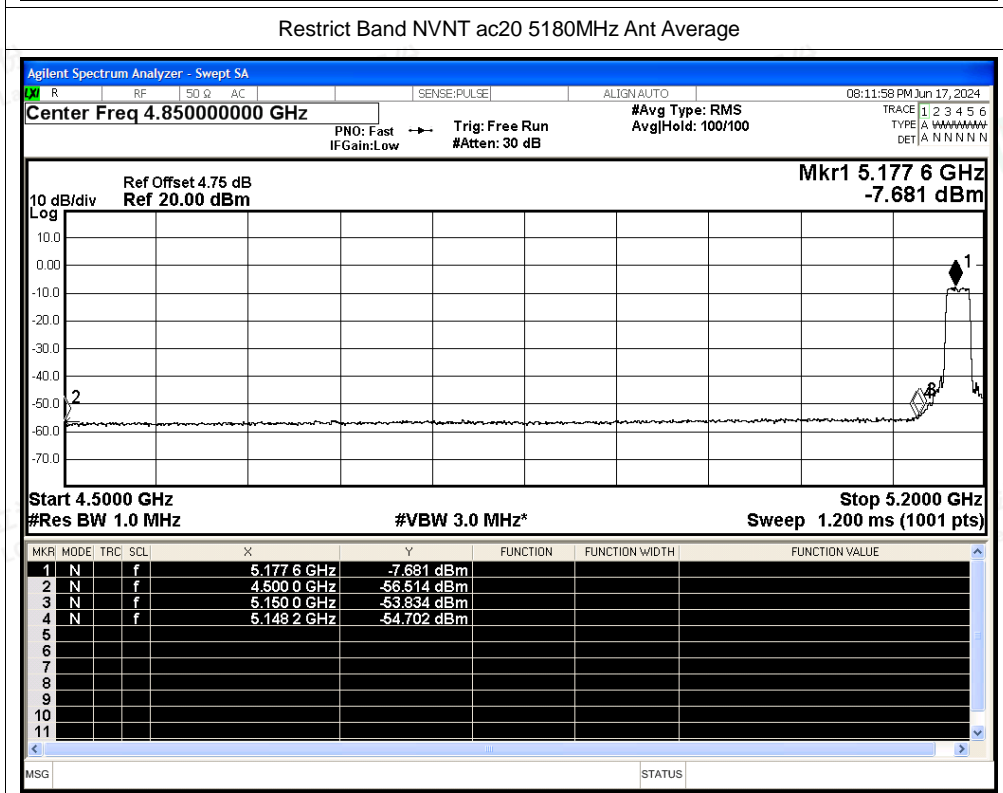
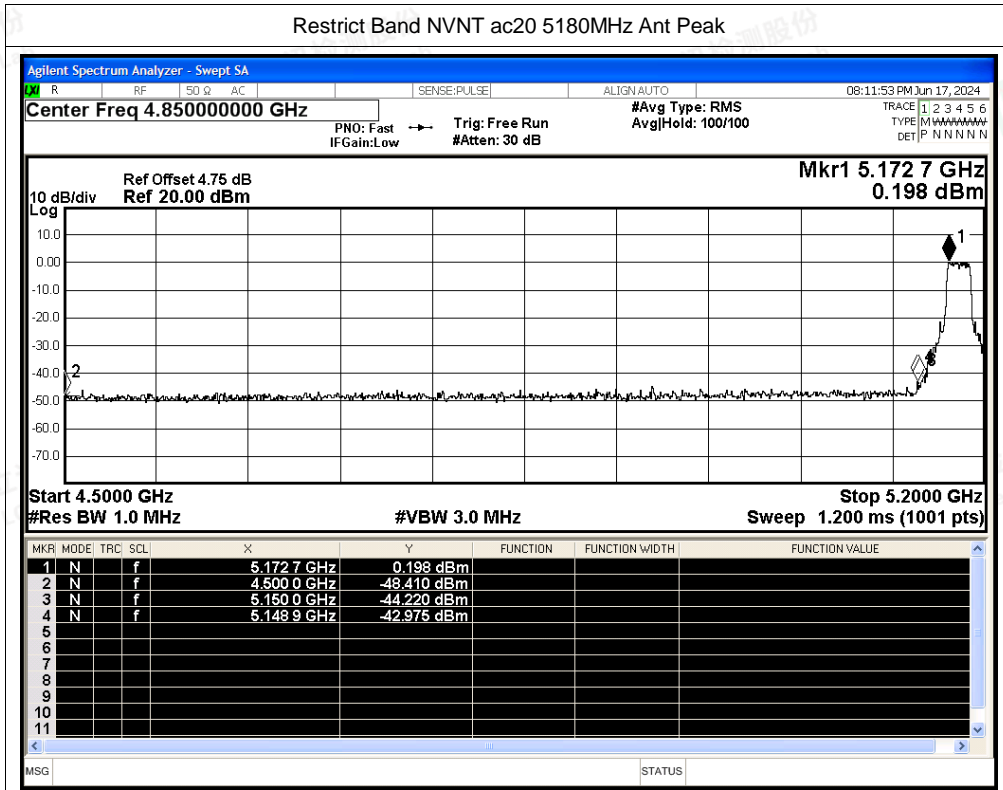


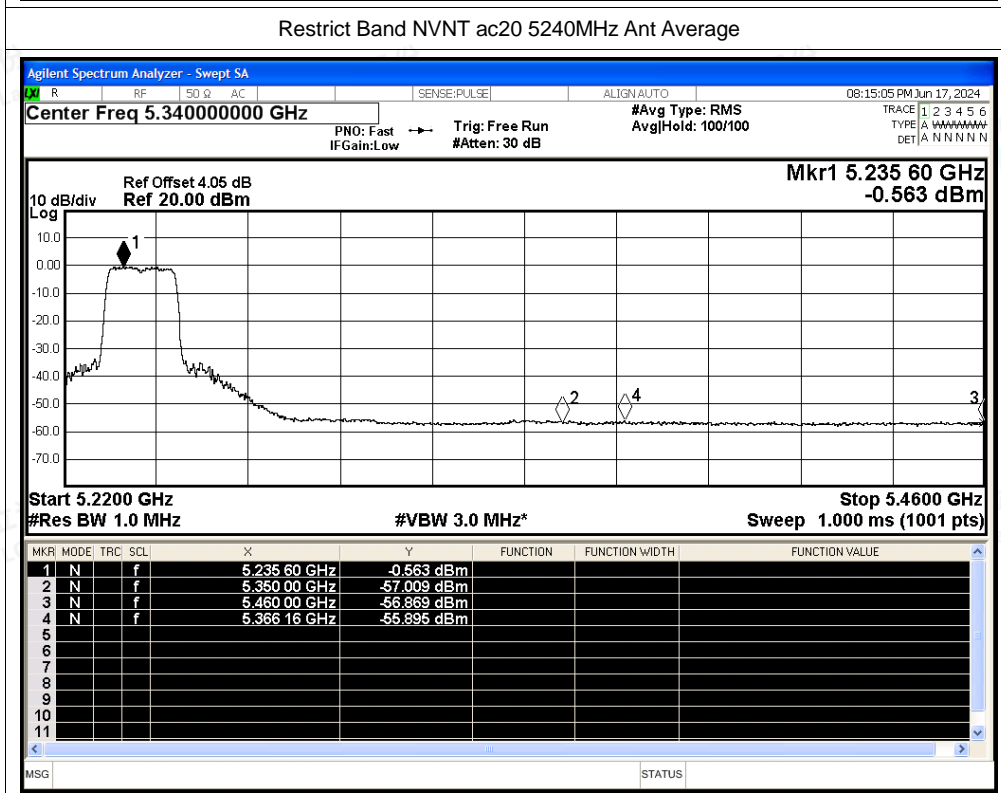
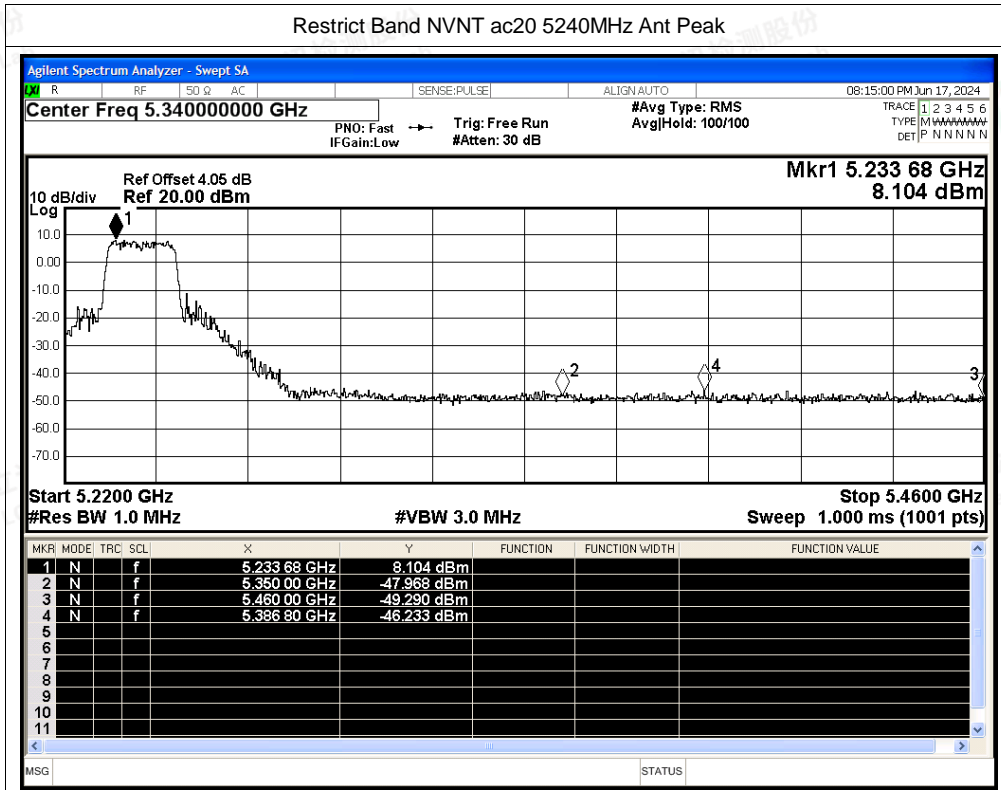


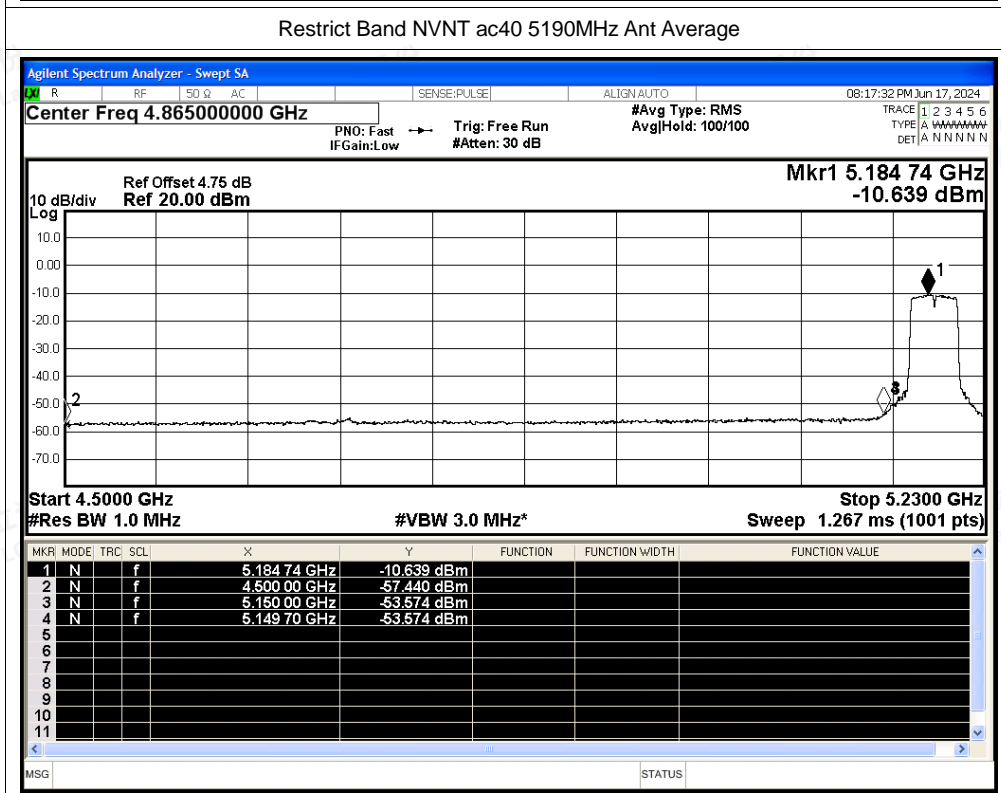
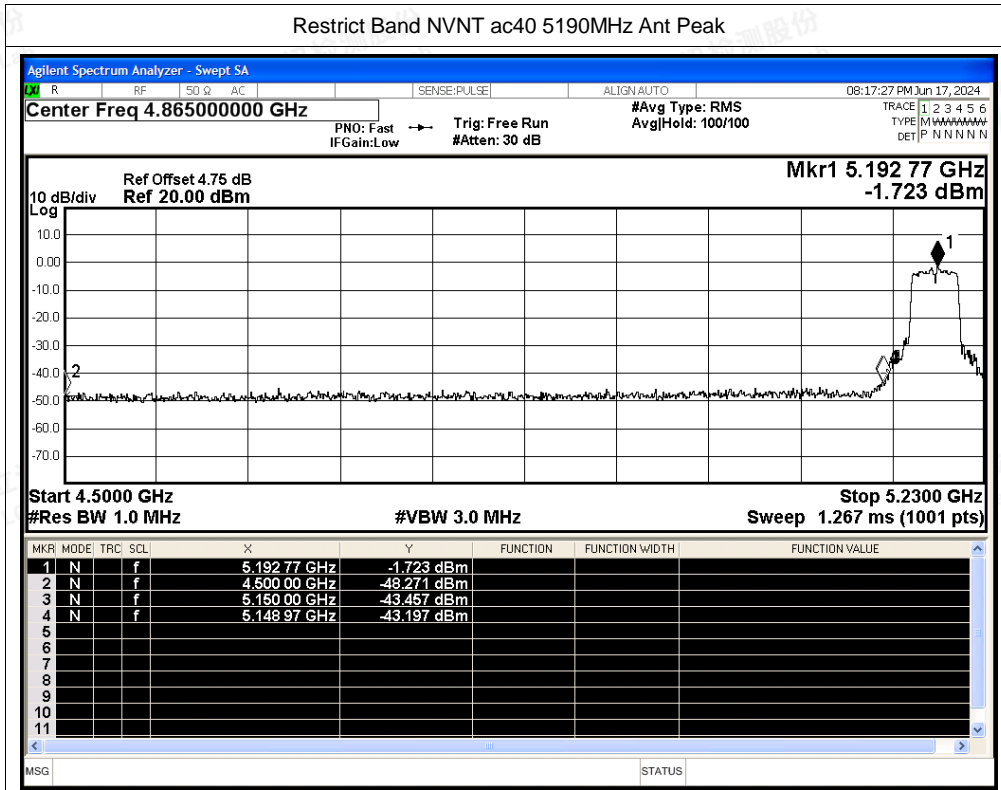






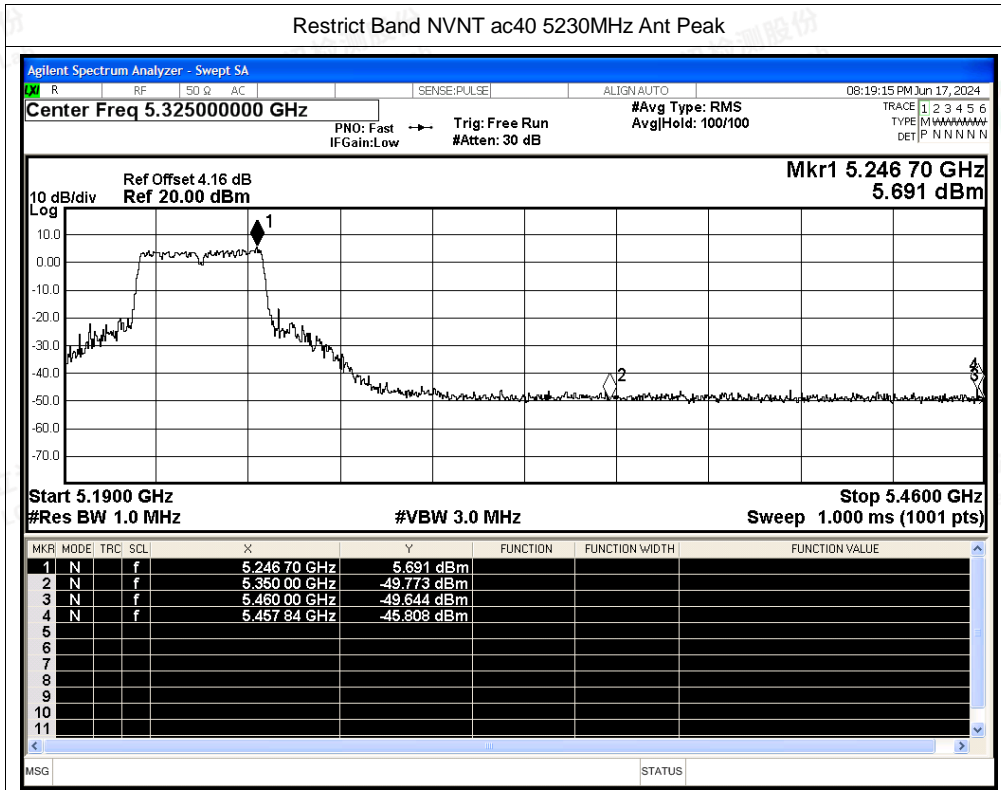




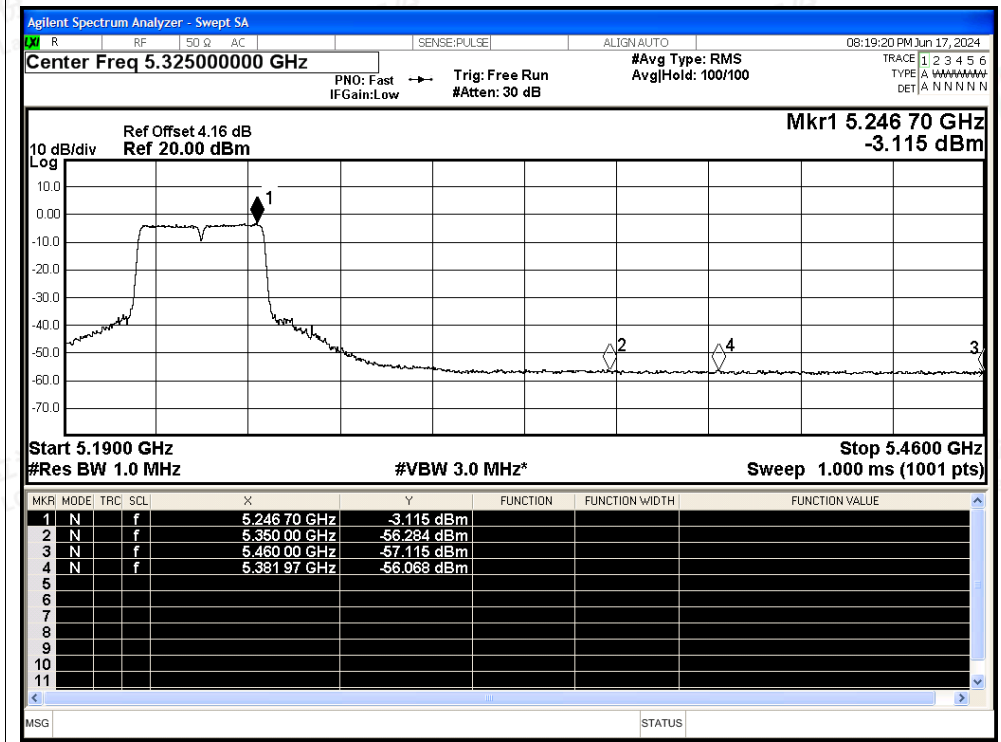


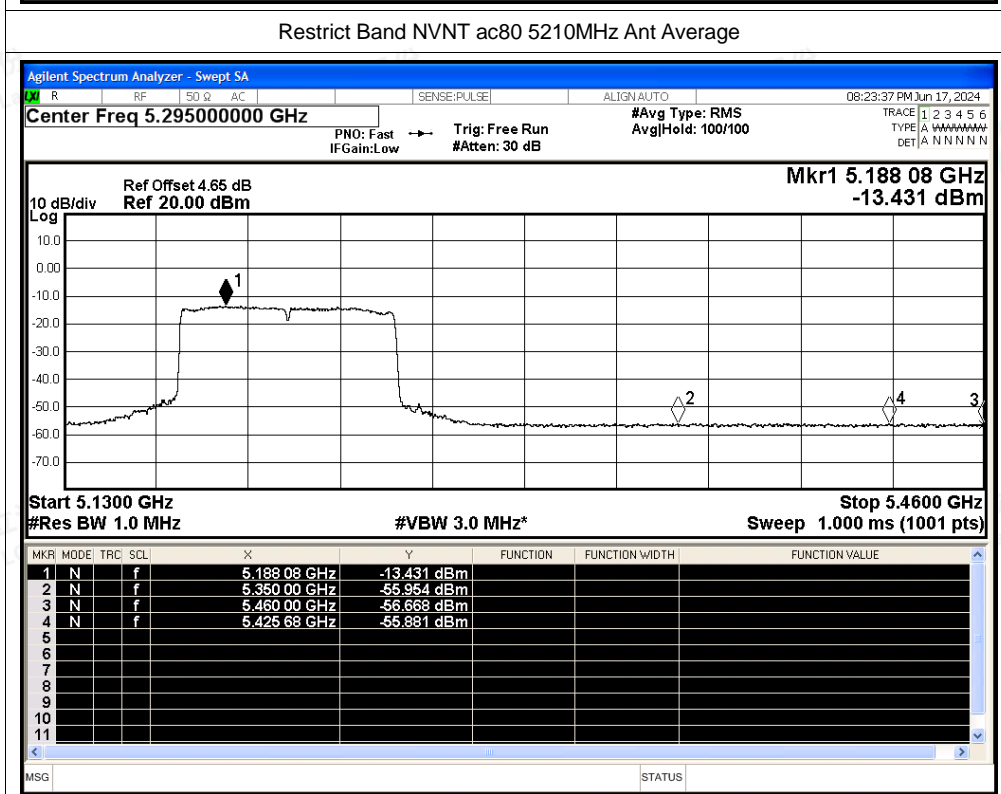
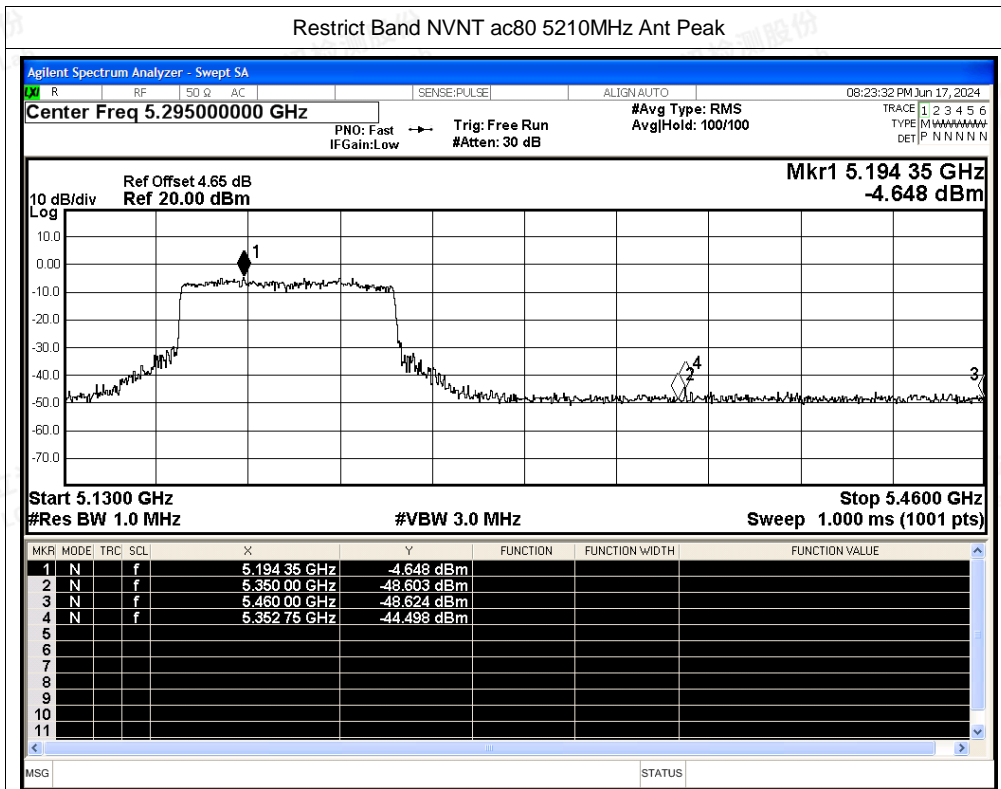


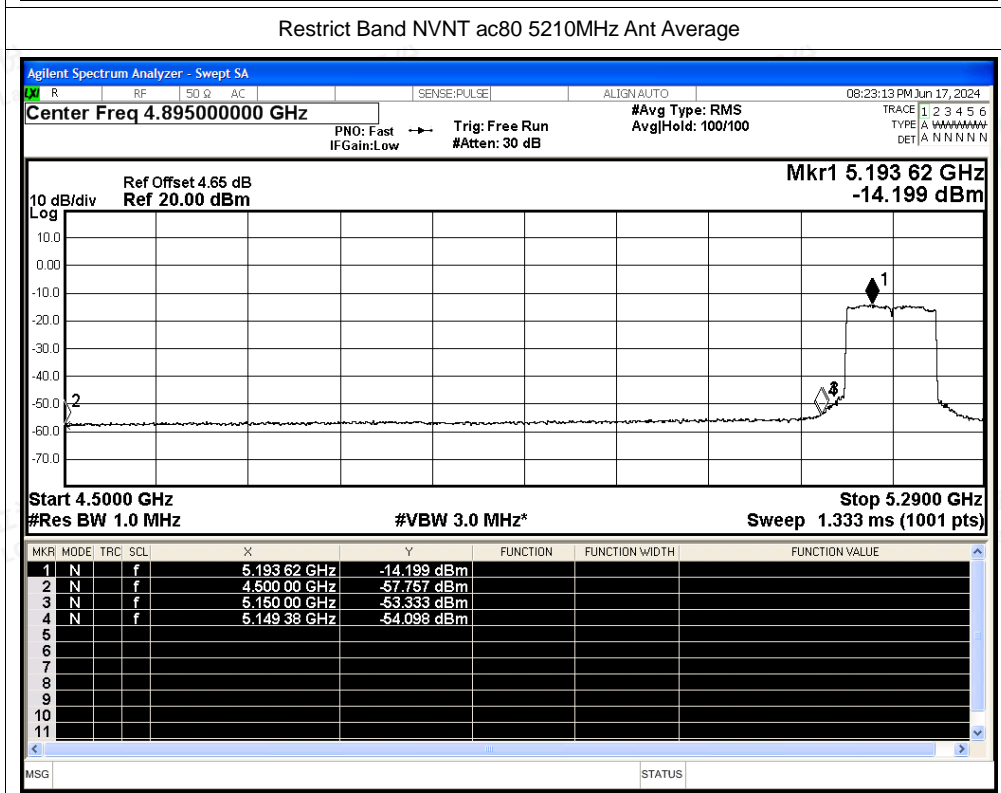
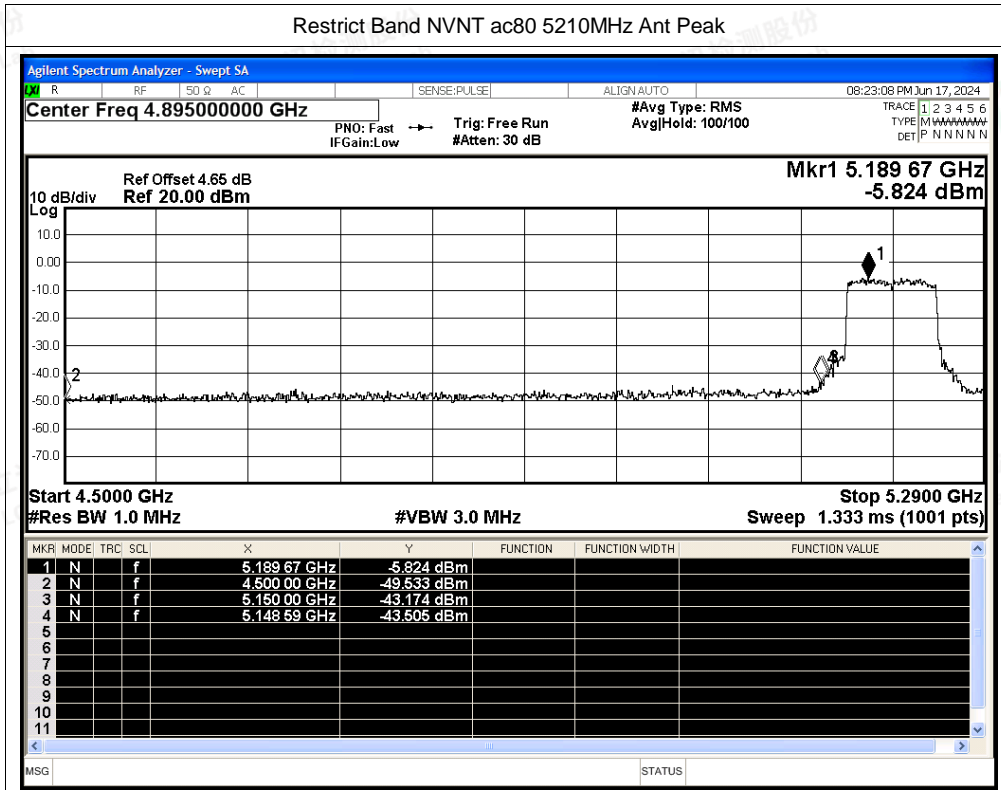
Restrict Band NVNT ac40 5230MHz Ant Peak



Restrict Band NVNT ac40 5230MHz Ant Average









B.5 Frequency Stability

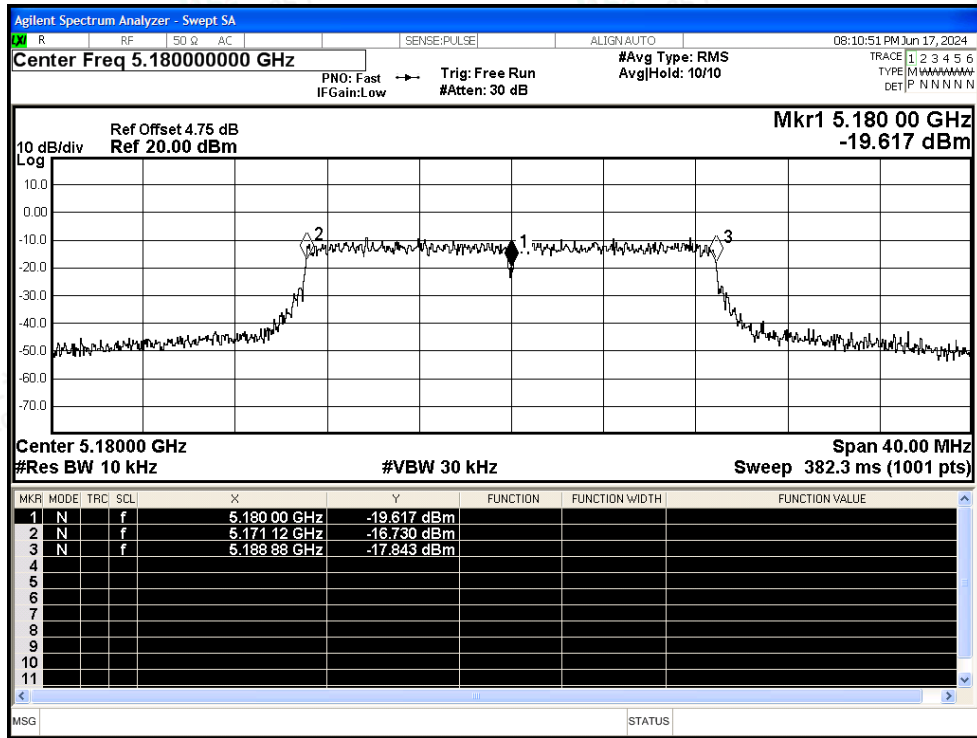
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant	5180	0	0	25	Pass
NVNT	ac20	5200	Ant	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant	5190	0	0	25	Pass
NVNT	ac40	5230	Ant	5230	0	0	25	Pass
NVNT	ac80	5210	Ant	5210	0	0	25	Pass



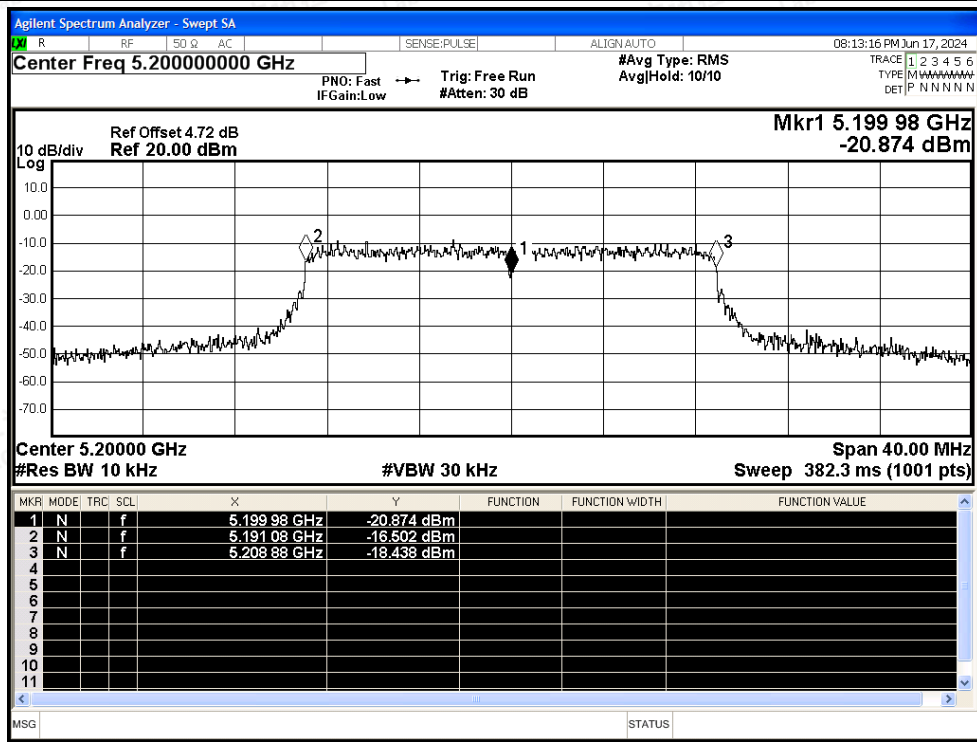


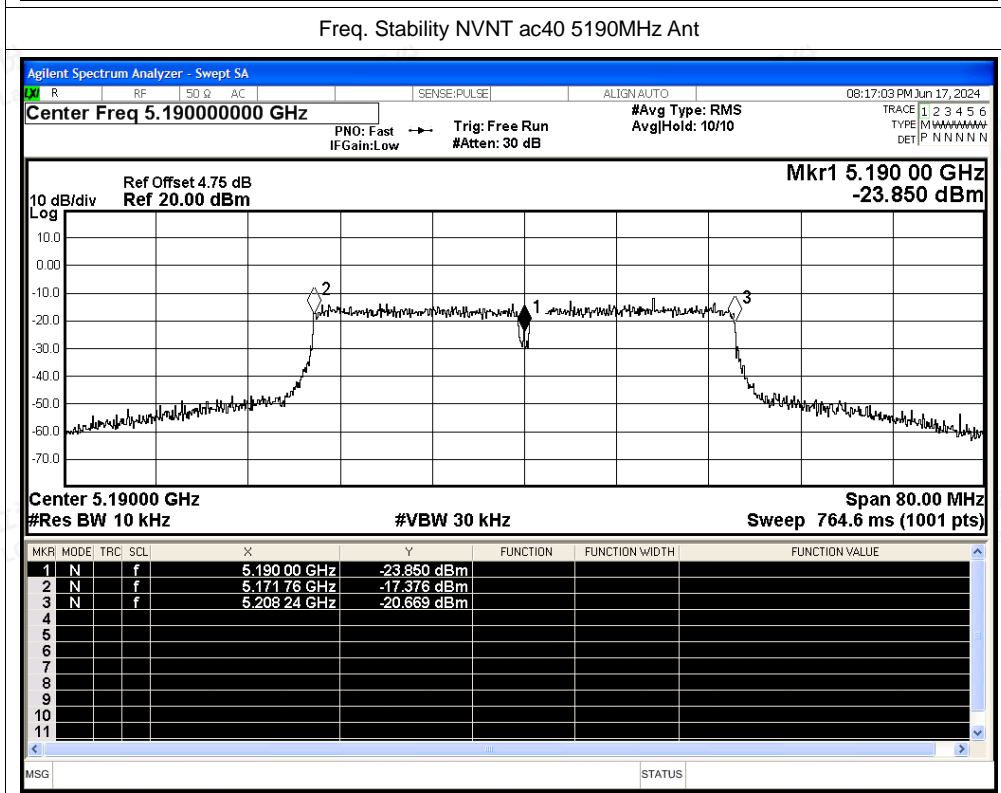
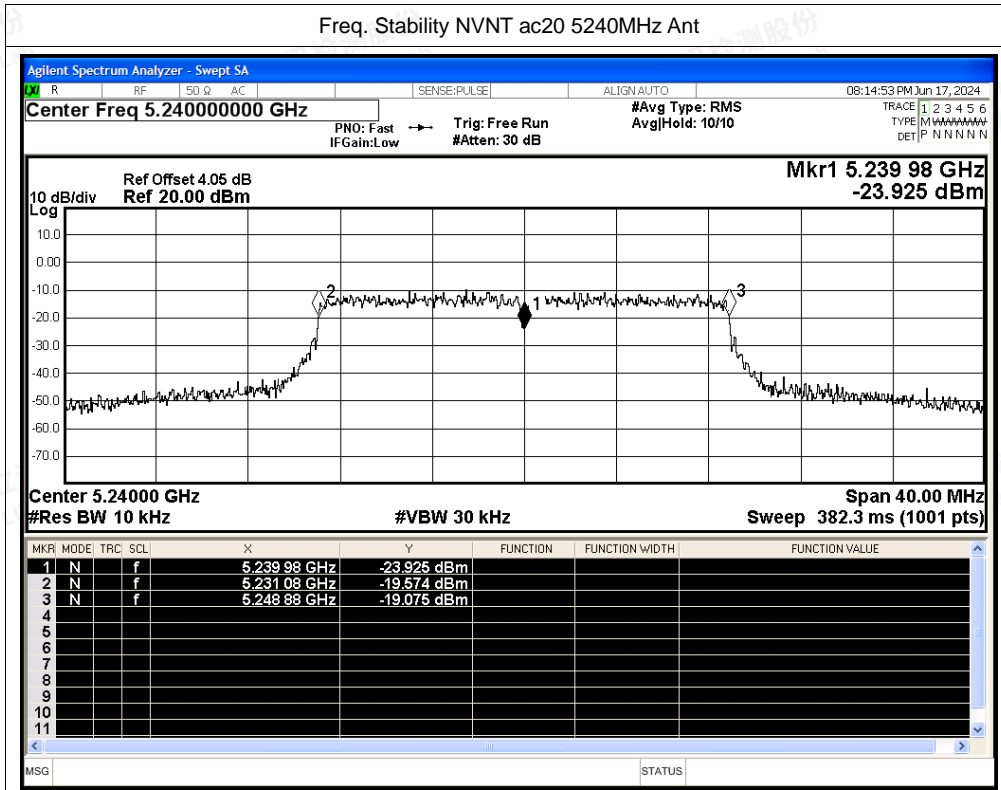
Test Graphs

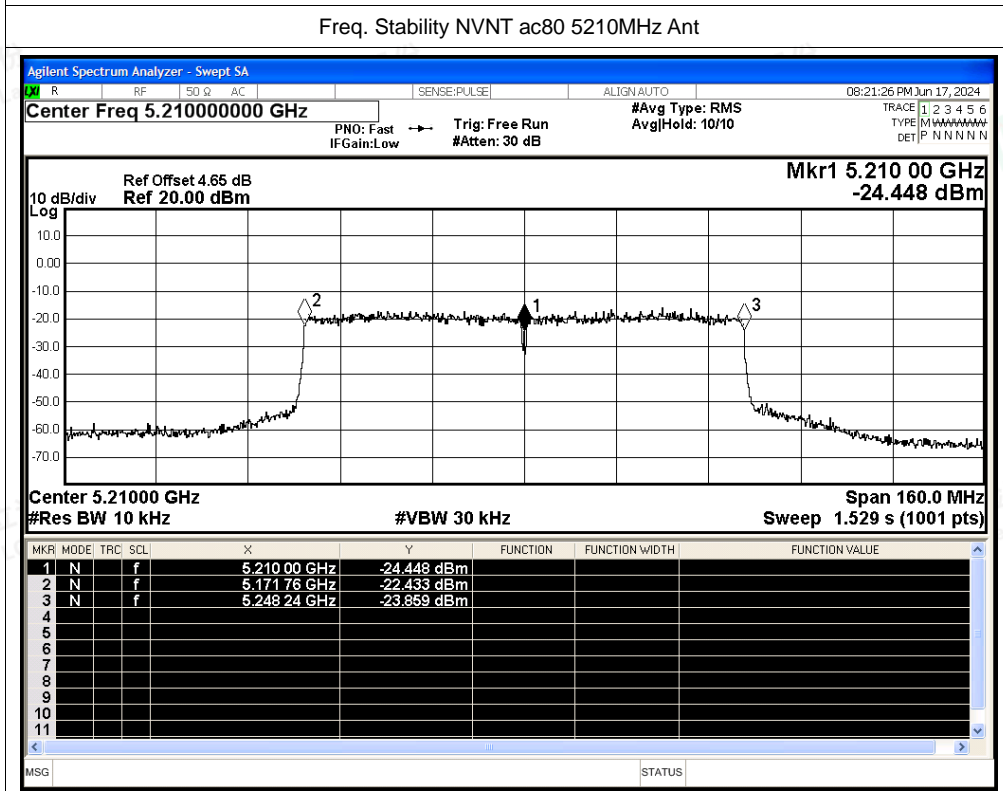
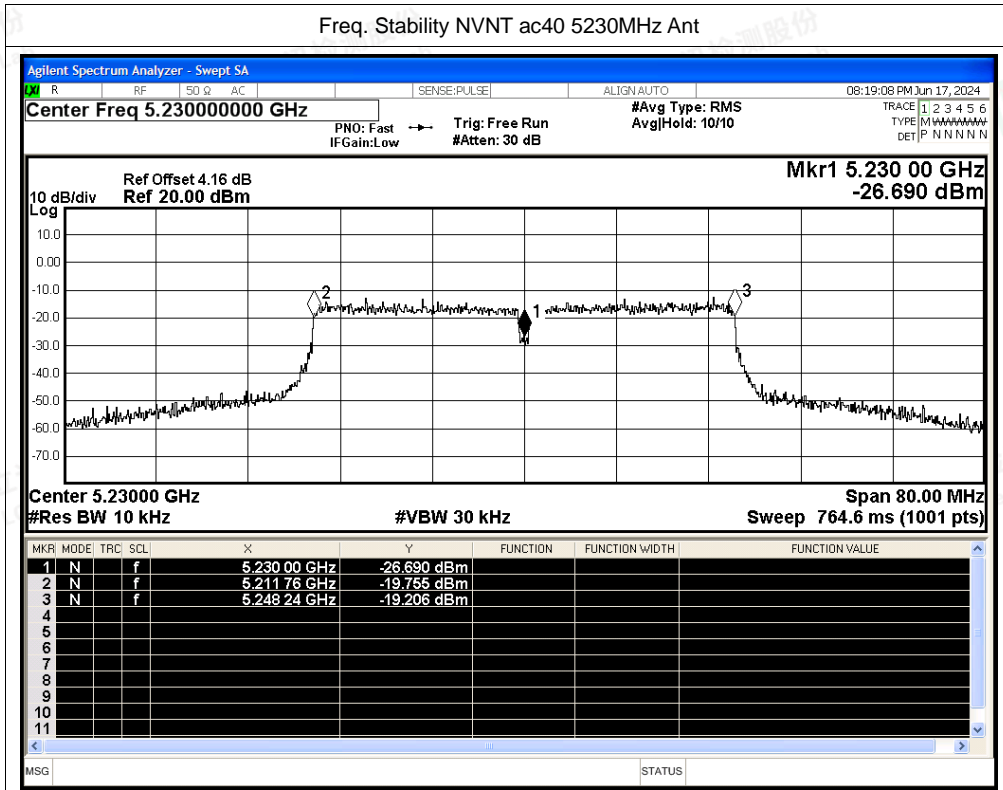
Freq. Stability NVNT ac20 5180MHz Ant



Freq. Stability NVNT ac20 5200MHz Ant









B.6 Duty Cycle

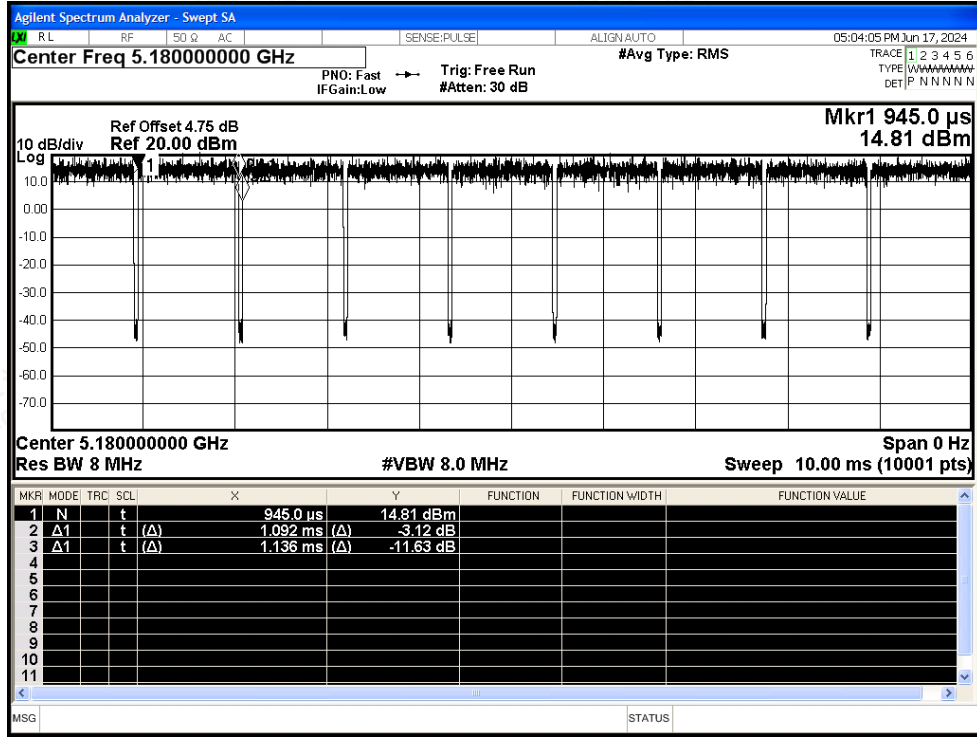
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant	96.13	0.17	0.92
NVNT	a	5200	Ant	96.13	0.17	0.91
NVNT	a	5240	Ant	96.13	0.17	0.92
NVNT	n20	5180	Ant	93.67	0.28	1.07
NVNT	n20	5200	Ant	93.77	0.28	1.07
NVNT	n20	5240	Ant	93.77	0.28	1.07
NVNT	n40	5190	Ant	97.23	0.12	0.46
NVNT	n40	5230	Ant	97.23	0.12	0.46
NVNT	ac20	5180	Ant	93.72	0.28	1.06
NVNT	ac20	5200	Ant	93.72	0.28	1.06
NVNT	ac20	5240	Ant	93.72	0.28	1.06
NVNT	ac40	5190	Ant	97.19	0.12	0.46
NVNT	ac40	5230	Ant	97.24	0.12	0.46
NVNT	ac80	5210	Ant	94.41	0.25	0.97





Test Graphs

Duty Cycle NVNT a 5180MHz Ant



Duty Cycle NVNT a 5200MHz Ant

