



Appendix F

RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: SEI700CCOAS

Test Model: SN8BKFF

Environmental Conditions

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





F.1 -26dB Bandwidth

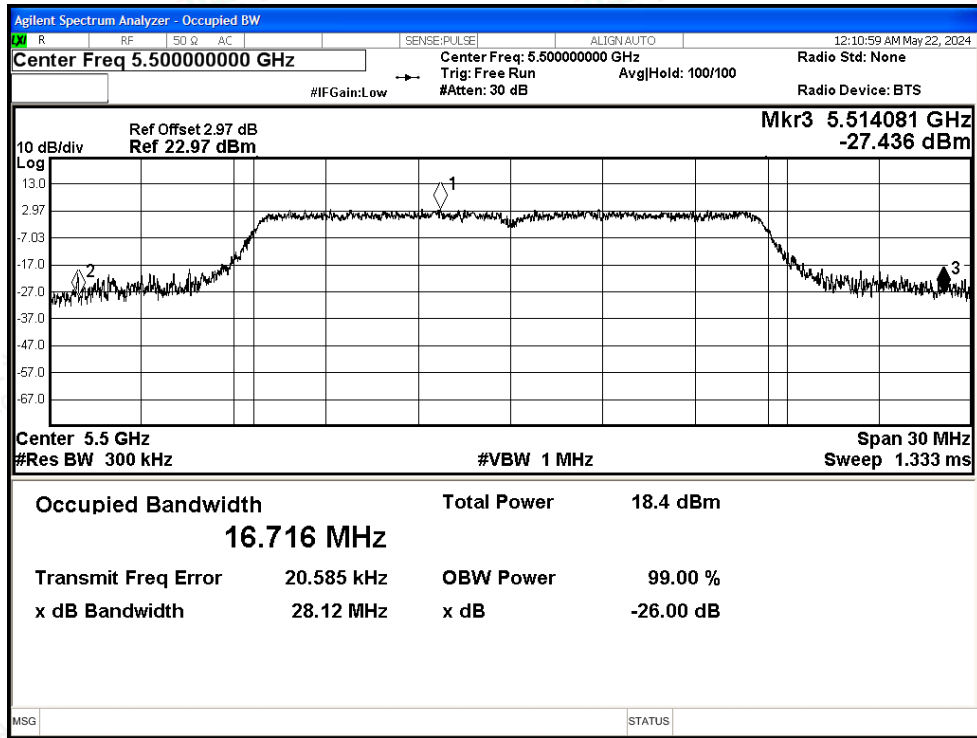
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	28.12	----	Pass
NVNT	a	5580	Ant1	28.204	----	Pass
NVNT	a	5700	Ant1	25.592	----	Pass
NVNT	n20	5500	Ant1	27.783	----	Pass
NVNT	n20	5580	Ant1	27.678	----	Pass
NVNT	n20	5700	Ant1	26.922	----	Pass
NVNT	n40	5510	Ant1	40.993	----	Pass
NVNT	n40	5550	Ant1	39.5	----	Pass
NVNT	n40	5670	Ant1	42.651	----	Pass
NVNT	ac20	5500	Ant1	27.662	----	Pass
NVNT	ac20	5580	Ant1	27.246	----	Pass
NVNT	ac20	5700	Ant1	27.007	----	Pass
NVNT	ac40	5510	Ant1	42.334	----	Pass
NVNT	ac40	5550	Ant1	42.341	----	Pass
NVNT	ac40	5670	Ant1	39.236	----	Pass
NVNT	ac80	5530	Ant1	79.676	----	Pass
NVNT	ac80	5610	Ant1	80.654	----	Pass



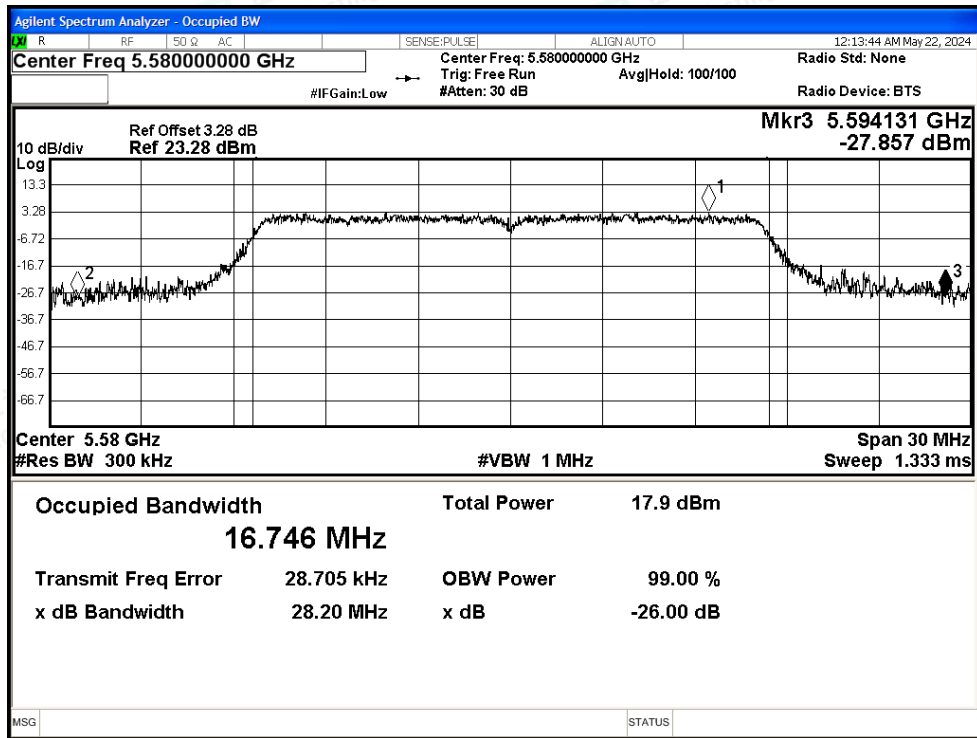


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1

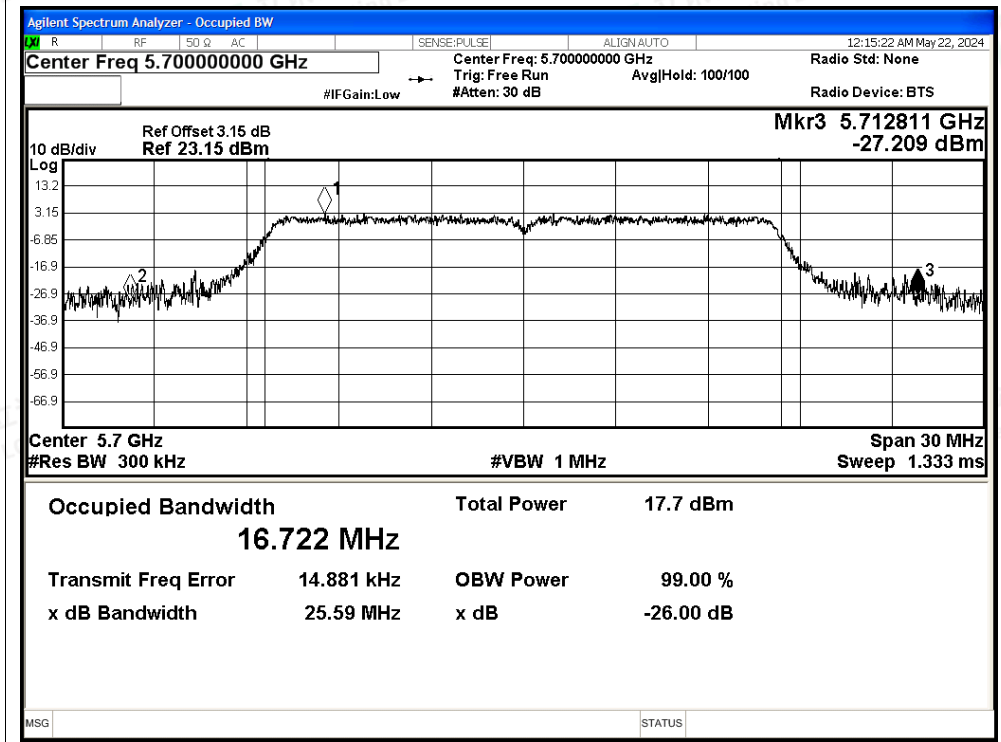


-26dB Bandwidth NVNT a 5580MHz Ant1

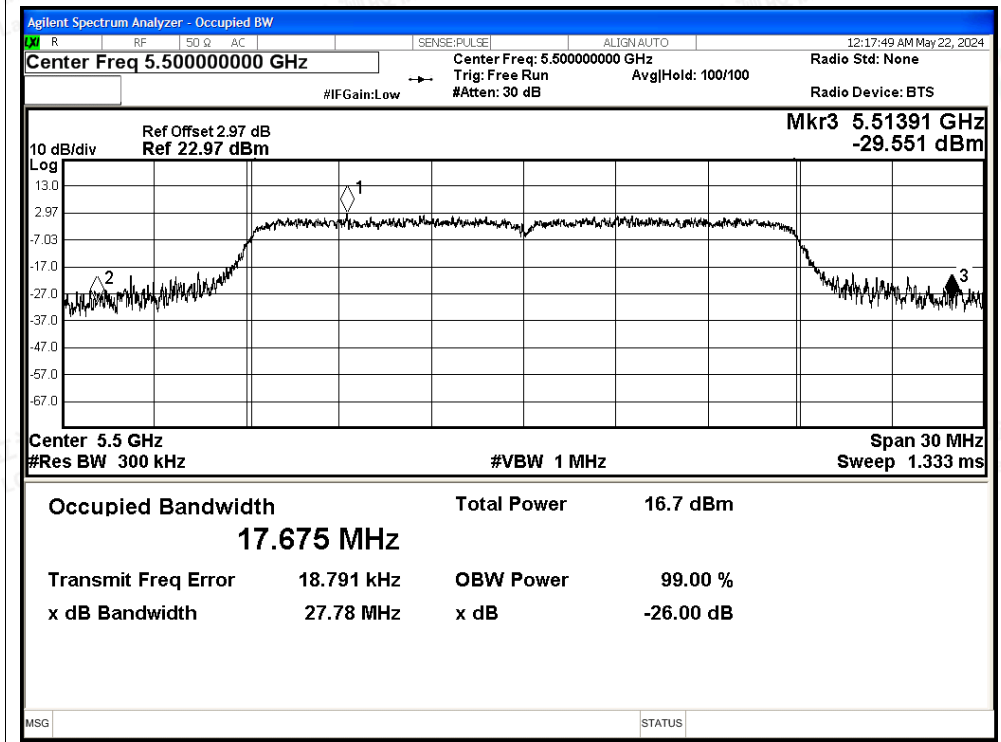




-26dB Bandwidth NVNT a 5700MHz Ant1

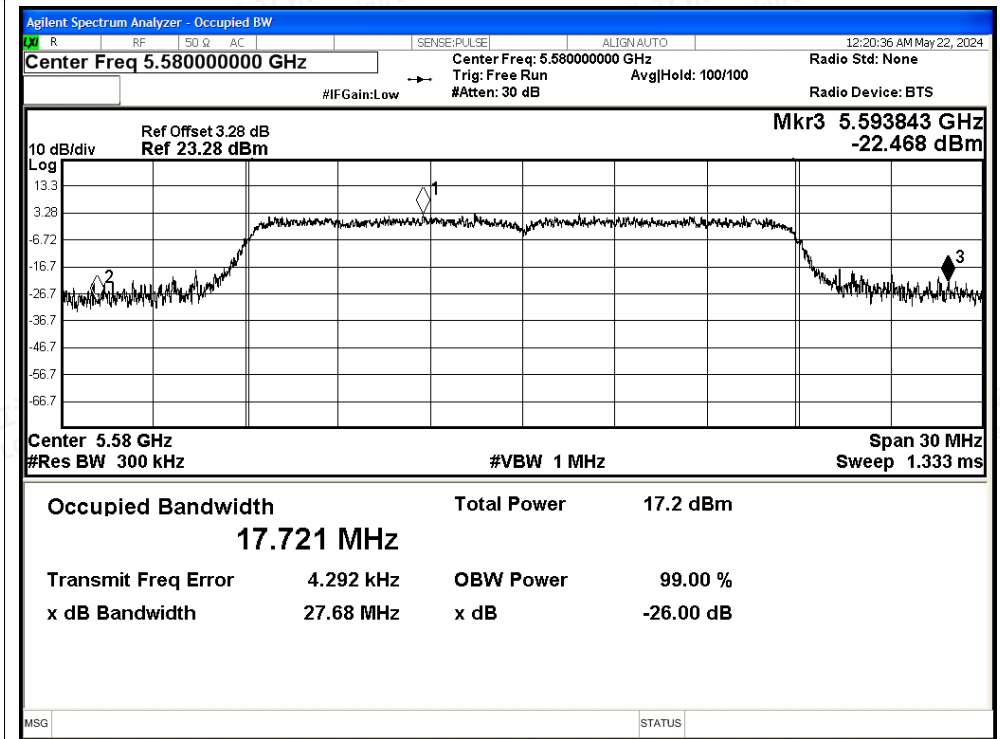


-26dB Bandwidth NVNT n20 5500MHz Ant1

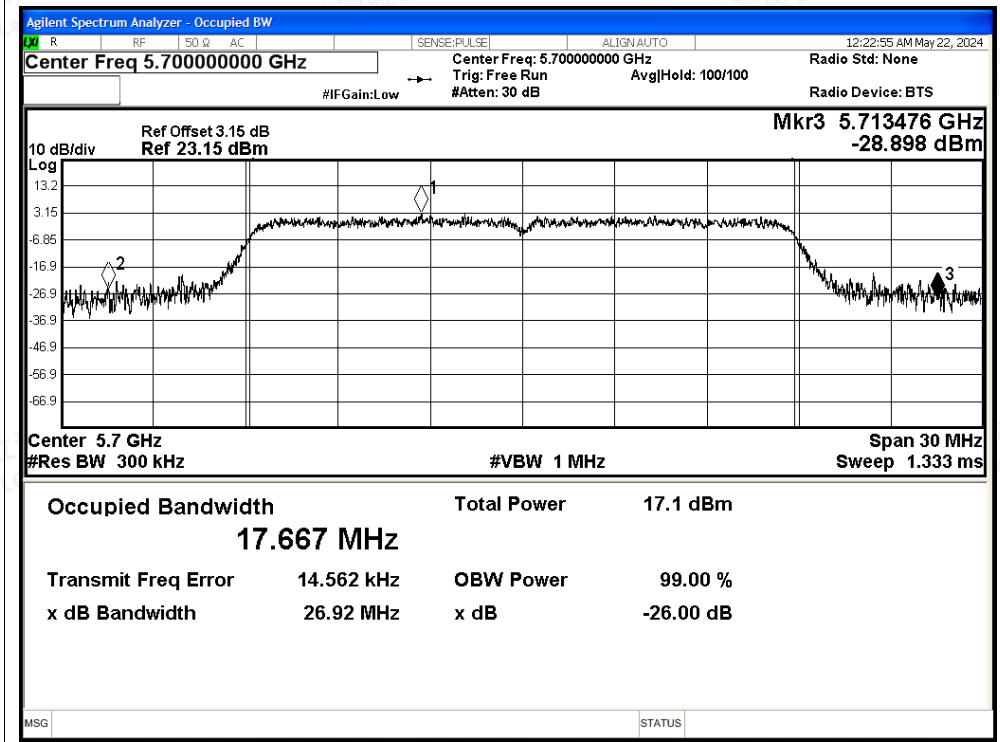




-26dB Bandwidth NVNT n20 5580MHz Ant1

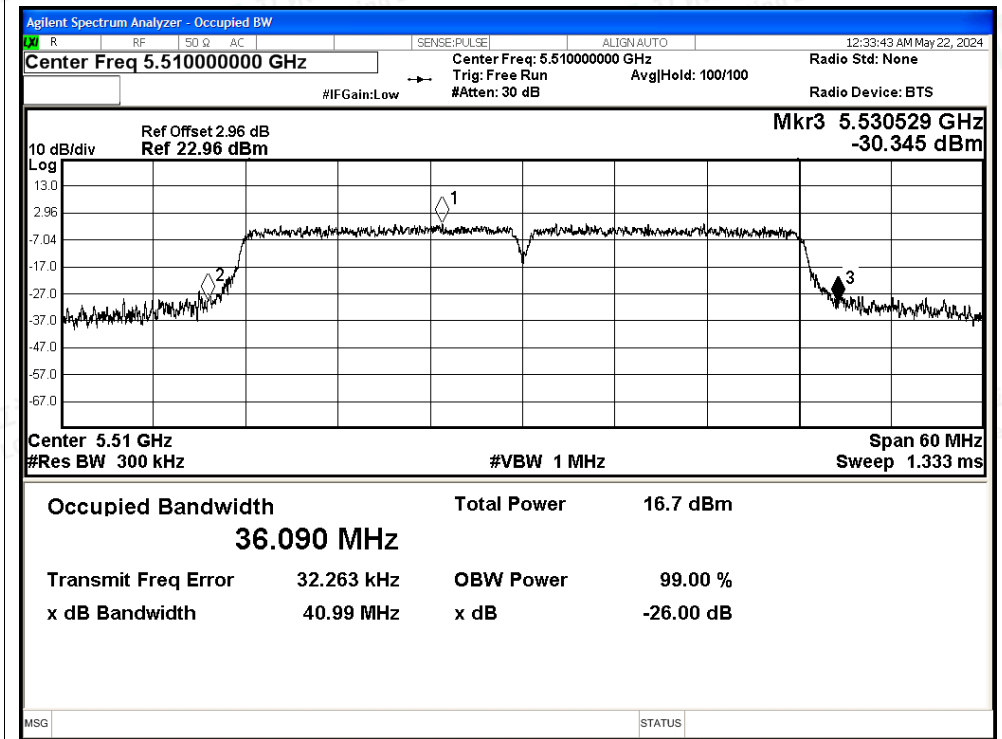


-26dB Bandwidth NVNT n20 5700MHz Ant1

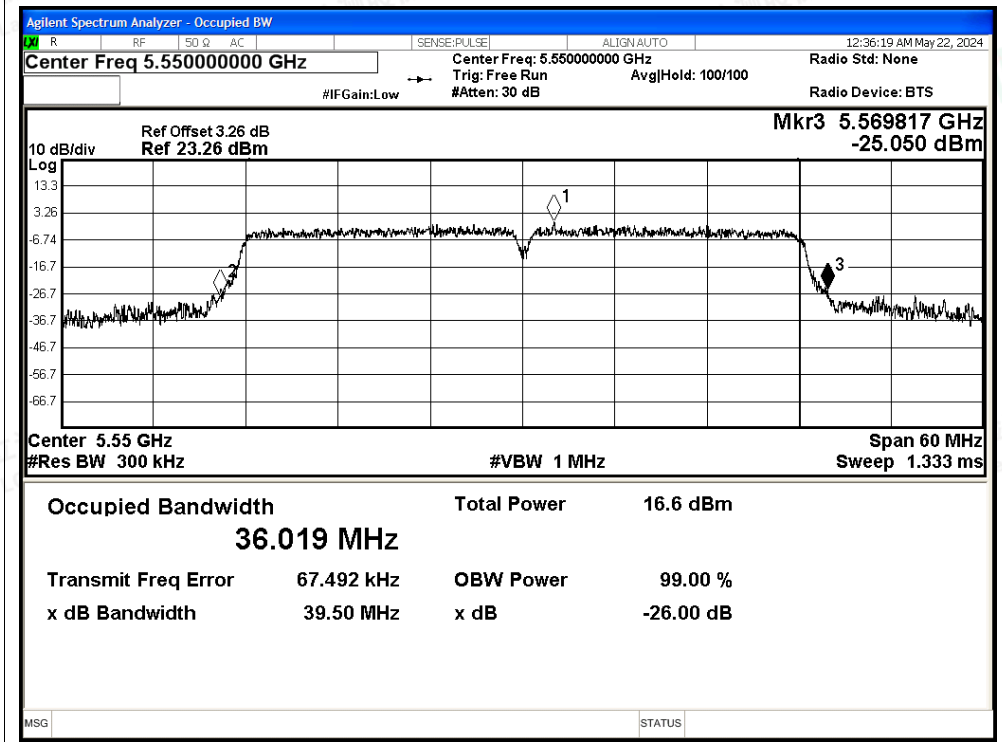




-26dB Bandwidth NVNT n40 5510MHz Ant1

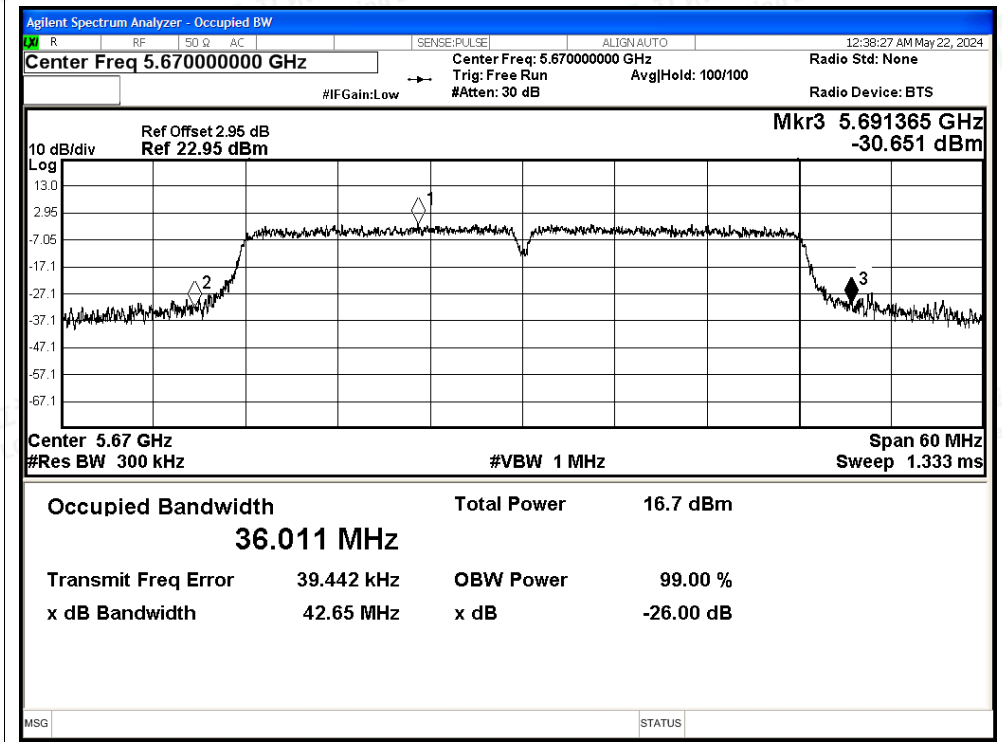


-26dB Bandwidth NVNT n40 5550MHz Ant1

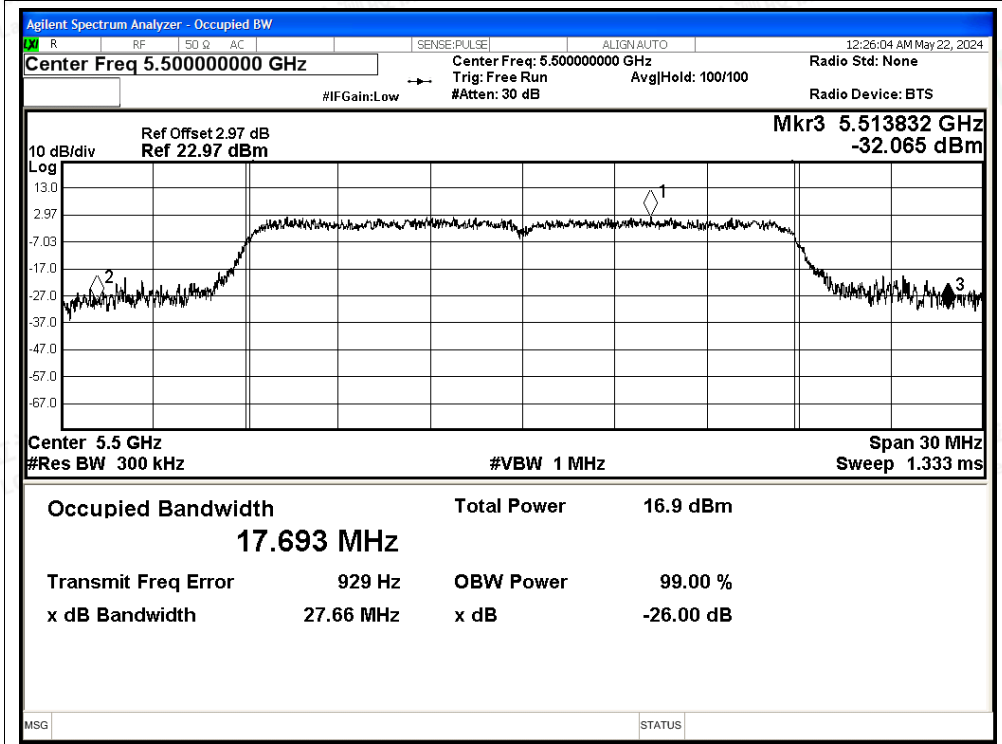




-26dB Bandwidth NVNT n40 5670MHz Ant1

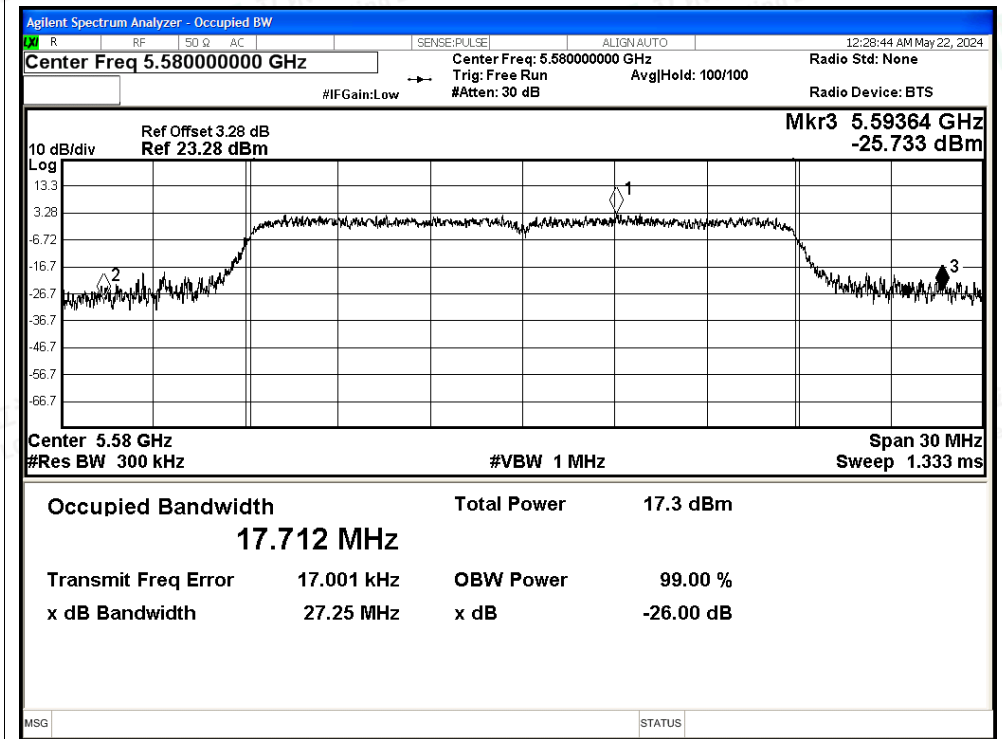


-26dB Bandwidth NVNT ac20 5500MHz Ant1

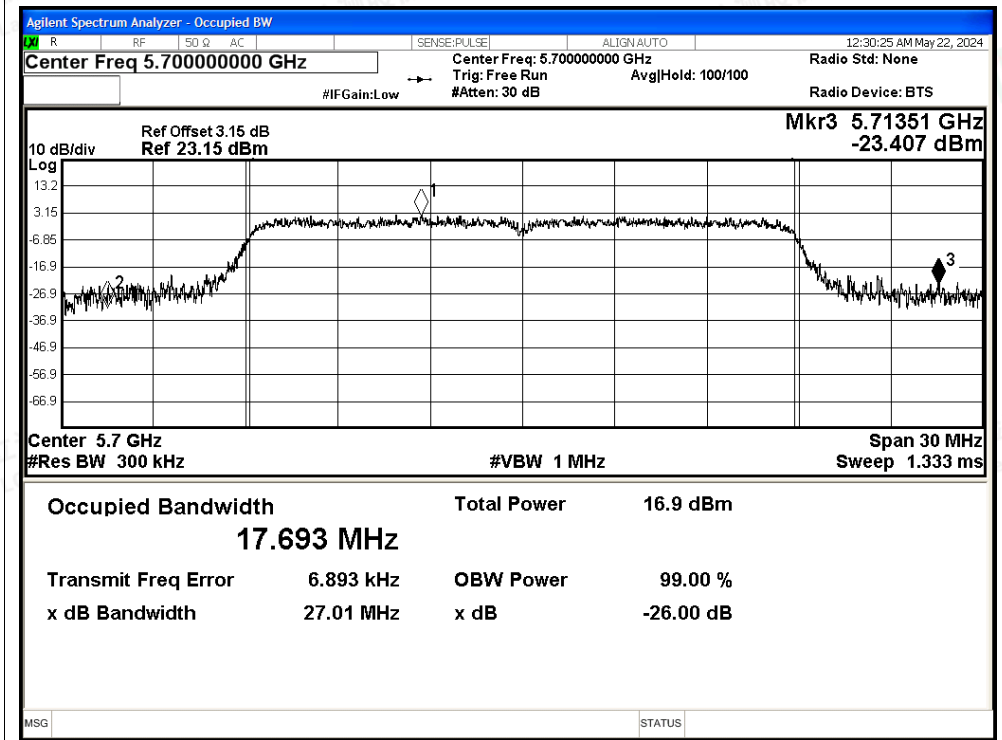




-26dB Bandwidth NVNT ac20 5580MHz Ant1

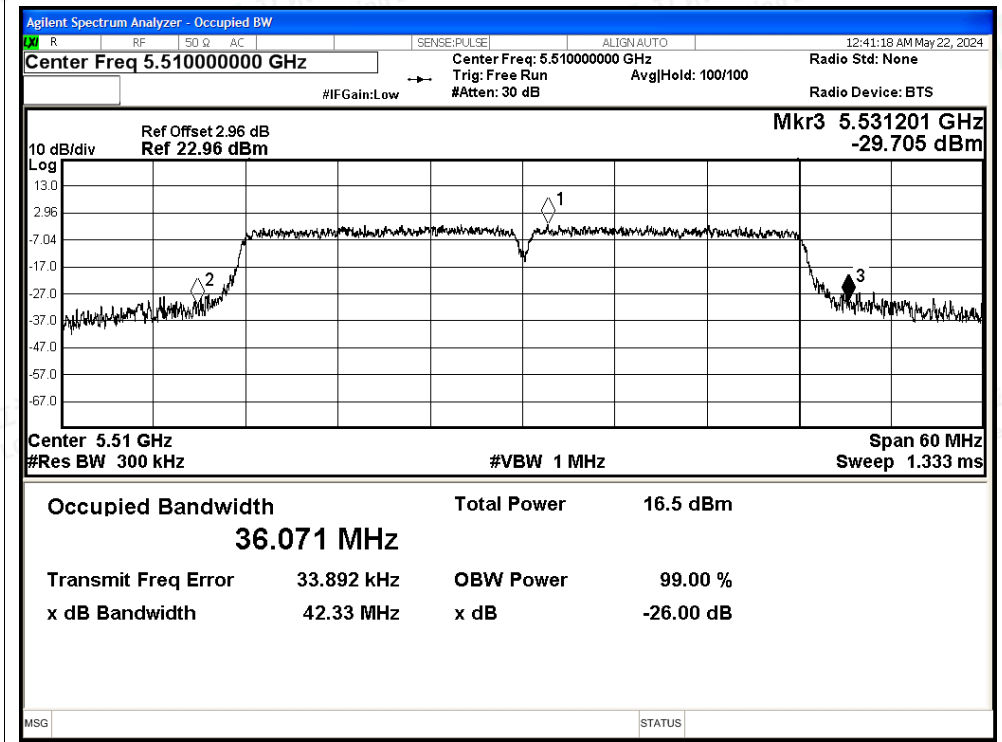


-26dB Bandwidth NVNT ac20 5700MHz Ant1

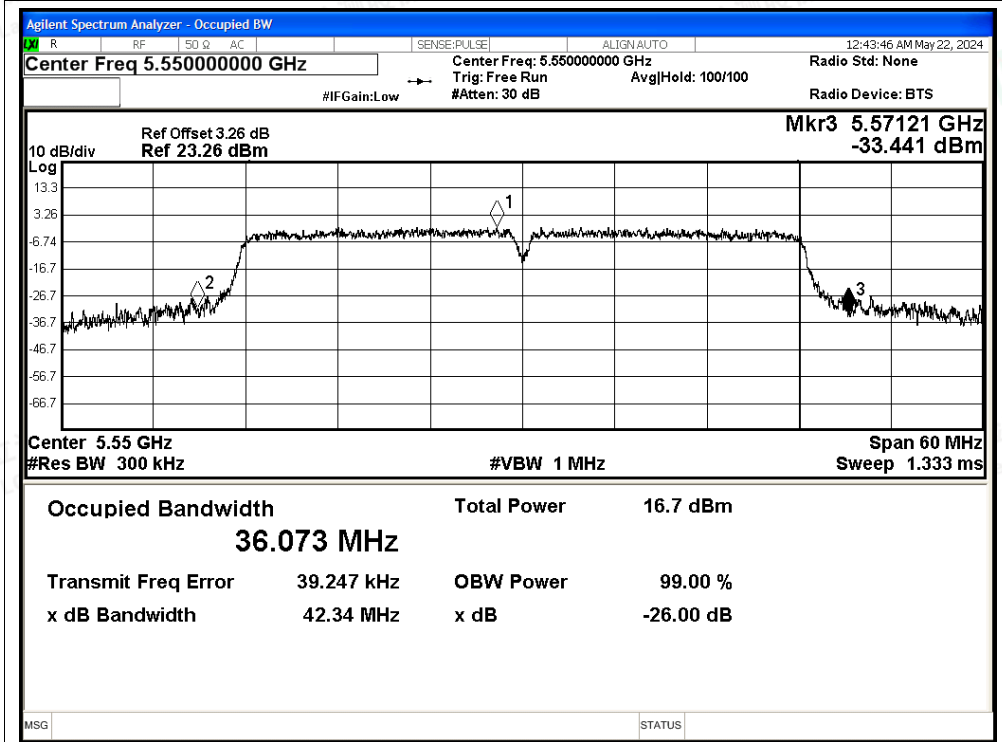




-26dB Bandwidth NVNT ac40 5510MHz Ant1

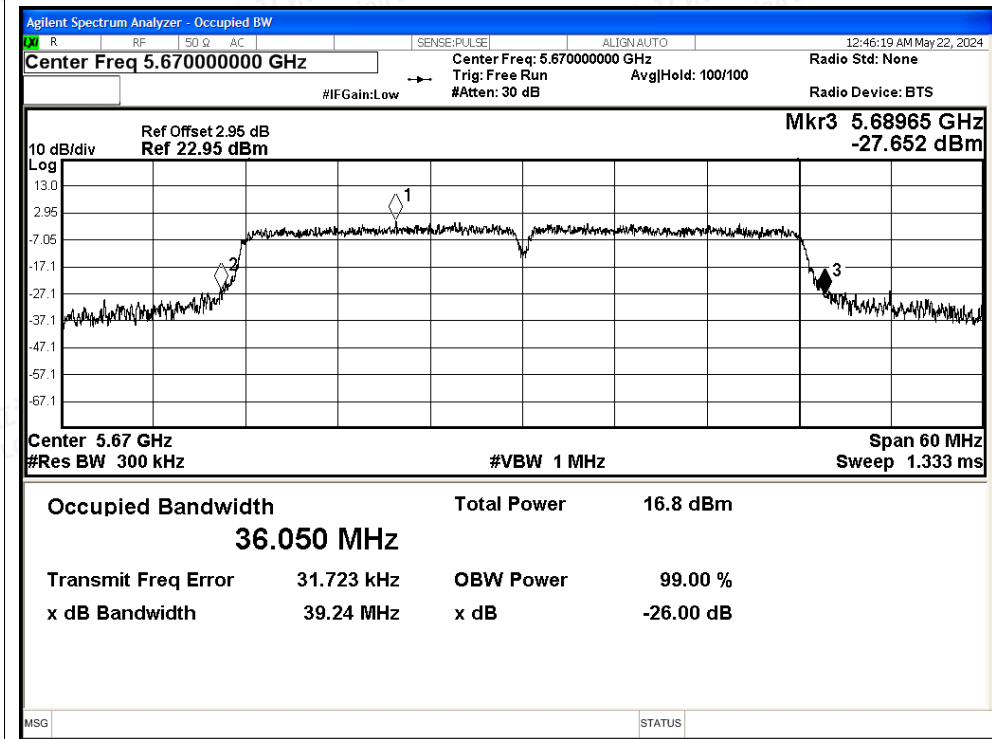


-26dB Bandwidth NVNT ac40 5550MHz Ant1

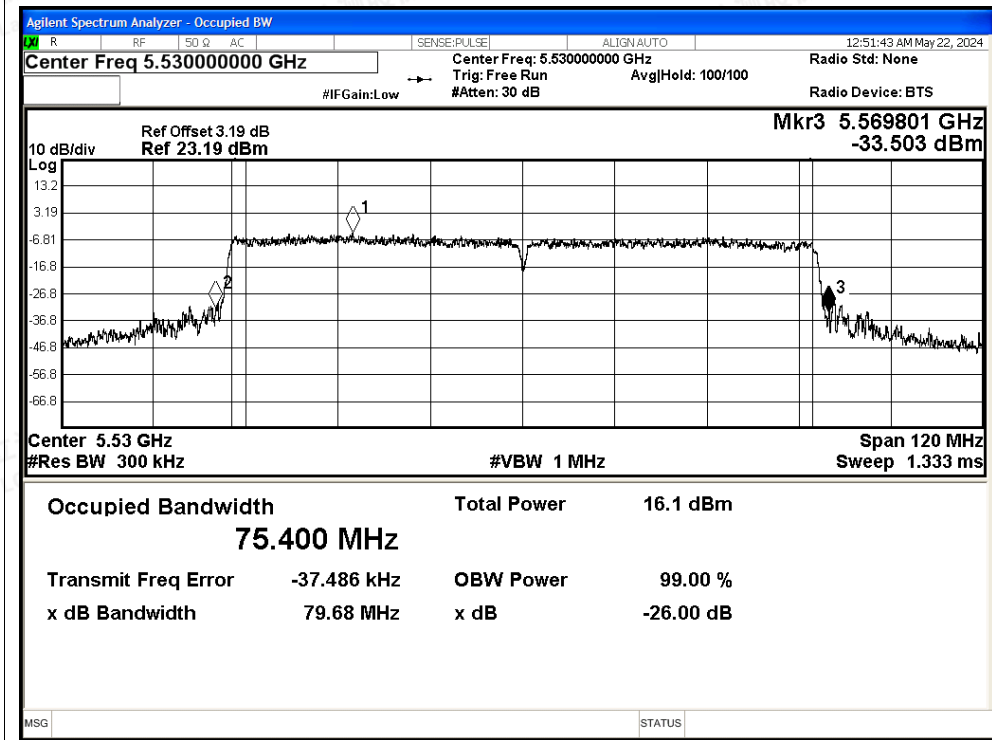


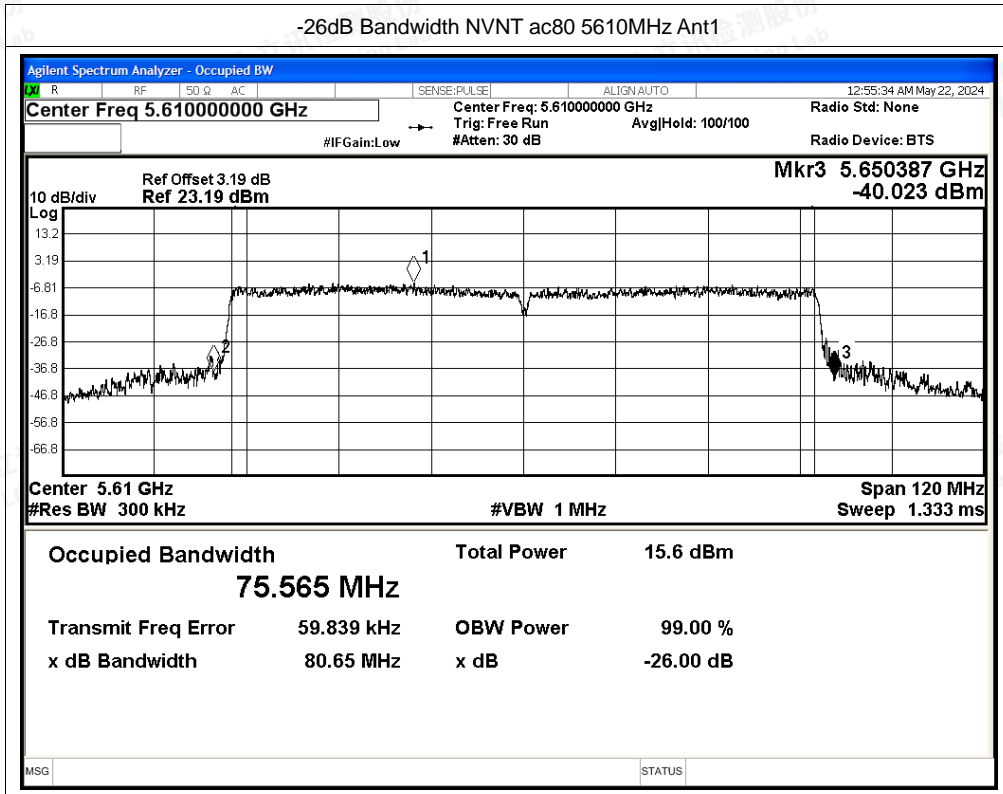


-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ac80 5530MHz Ant1







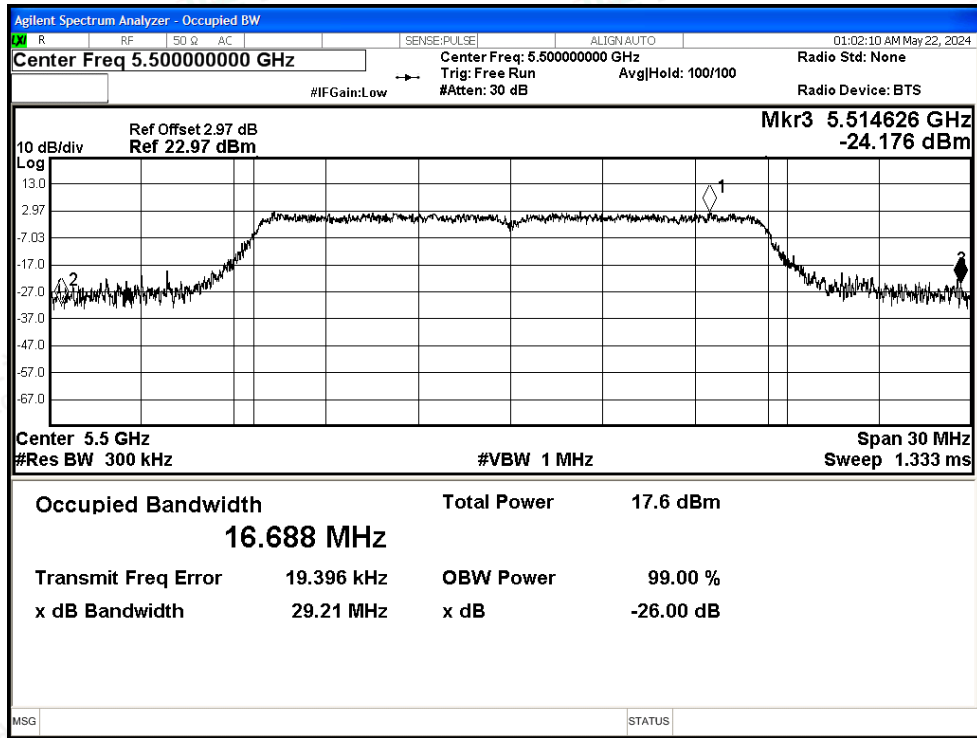
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant2	29.213	----	Pass
NVNT	a	5580	Ant2	26.339	----	Pass
NVNT	a	5700	Ant2	27.357	----	Pass
NVNT	n20	5500	Ant2	27.862	----	Pass
NVNT	n20	5580	Ant2	26.625	----	Pass
NVNT	n20	5700	Ant2	27.864	----	Pass
NVNT	n40	5510	Ant2	44.079	----	Pass
NVNT	n40	5550	Ant2	42.542	----	Pass
NVNT	n40	5670	Ant2	41.425	----	Pass
NVNT	ac20	5500	Ant2	28.306	----	Pass
NVNT	ac20	5580	Ant2	27.086	----	Pass
NVNT	ac20	5700	Ant2	27.043	----	Pass
NVNT	ac40	5510	Ant2	42.457	----	Pass
NVNT	ac40	5550	Ant2	40.13	----	Pass
NVNT	ac40	5670	Ant2	44.199	----	Pass
NVNT	ac80	5530	Ant2	78.443	----	Pass
NVNT	ac80	5610	Ant2	78.975	----	Pass



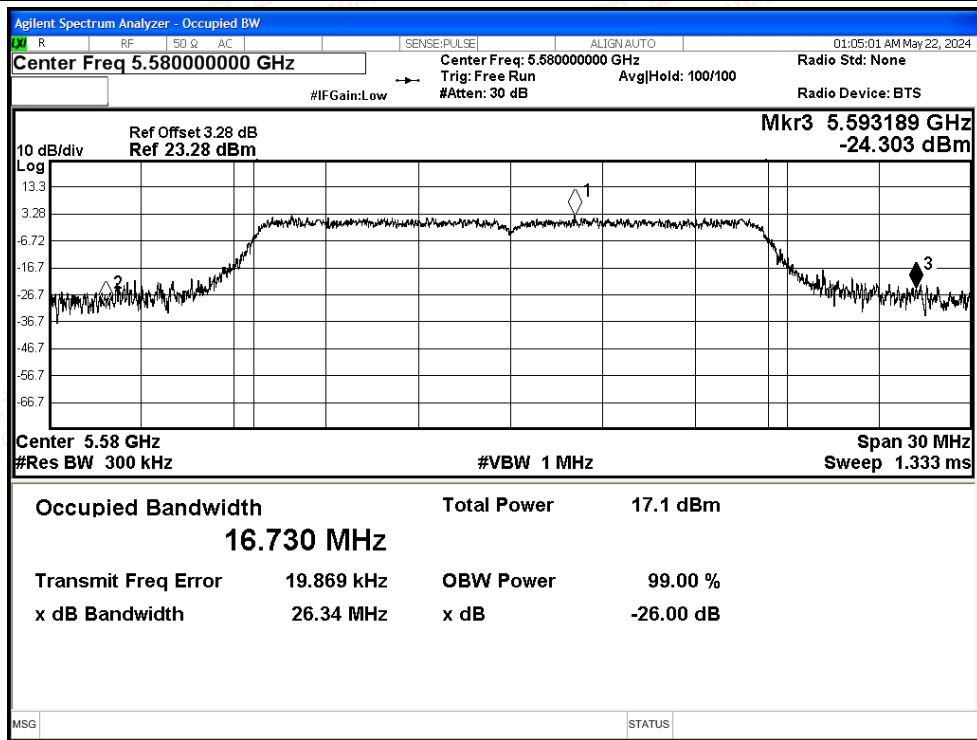


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant2

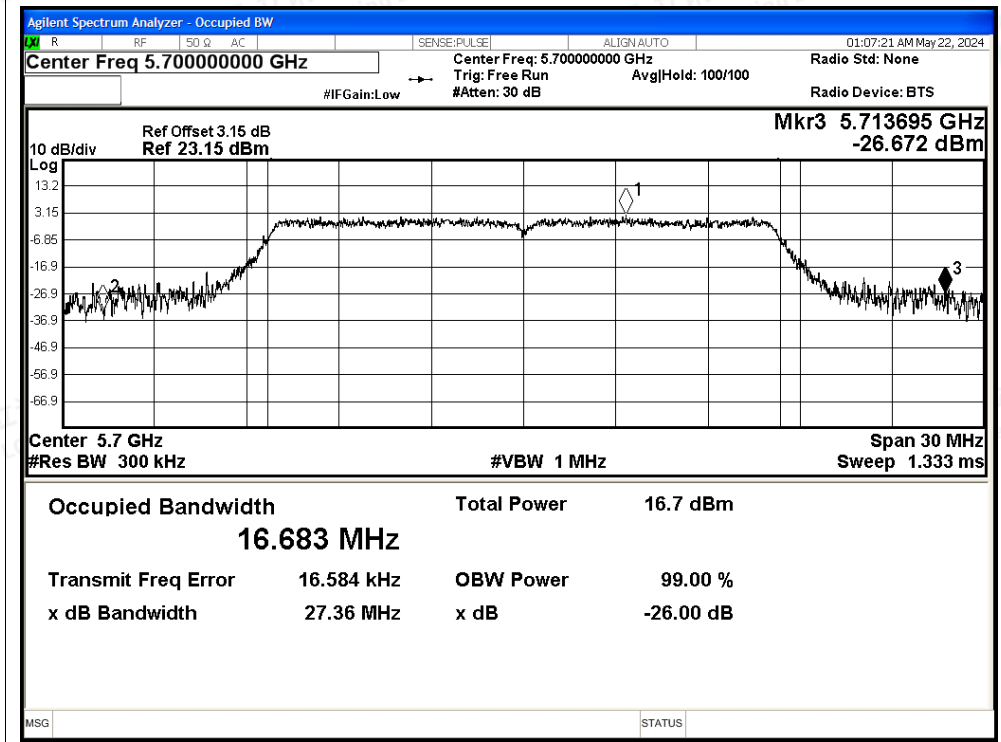


-26dB Bandwidth NVNT a 5580MHz Ant2

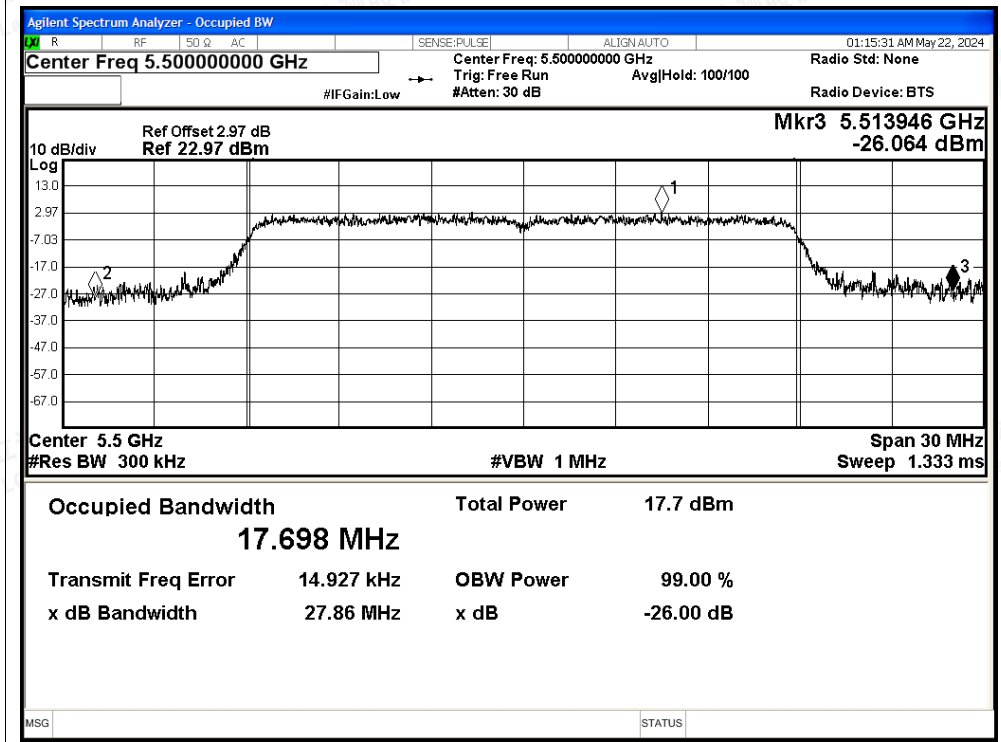




-26dB Bandwidth NVNT a 5700MHz Ant2

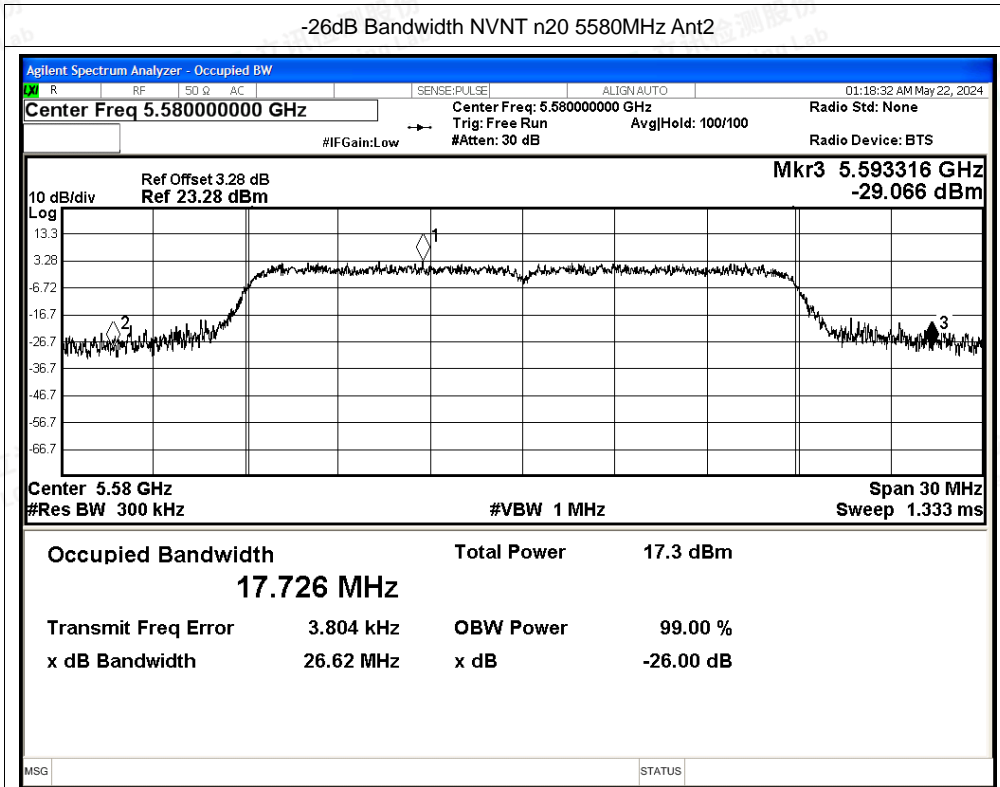


-26dB Bandwidth NVNT n20 5500MHz Ant2

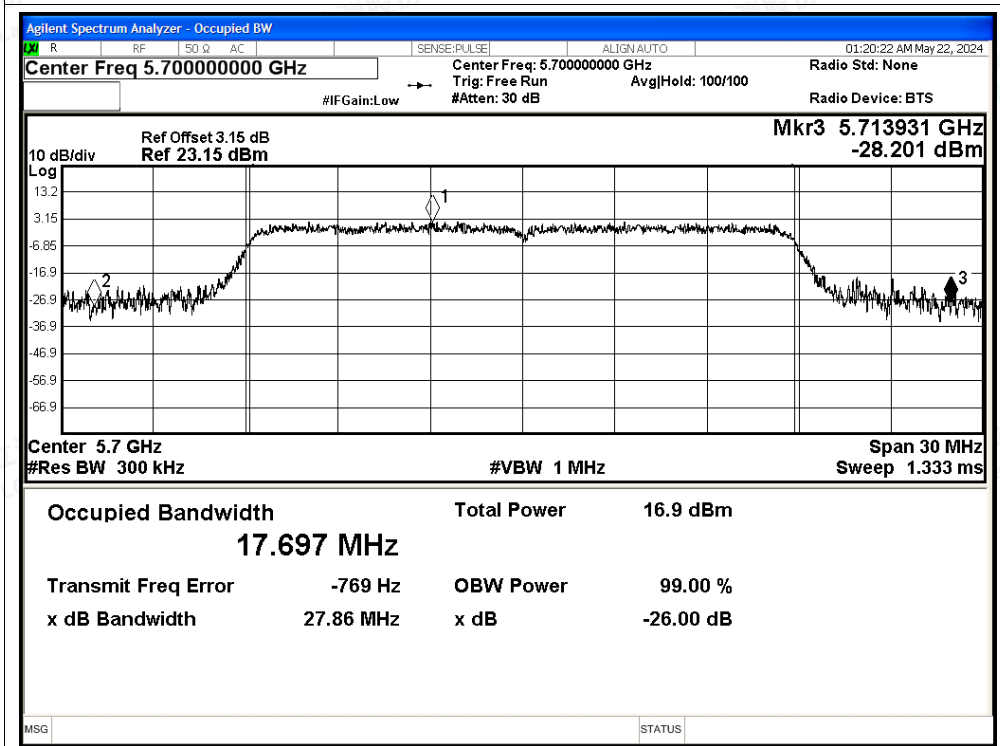




-26dB Bandwidth NVNT n20 5580MHz Ant2

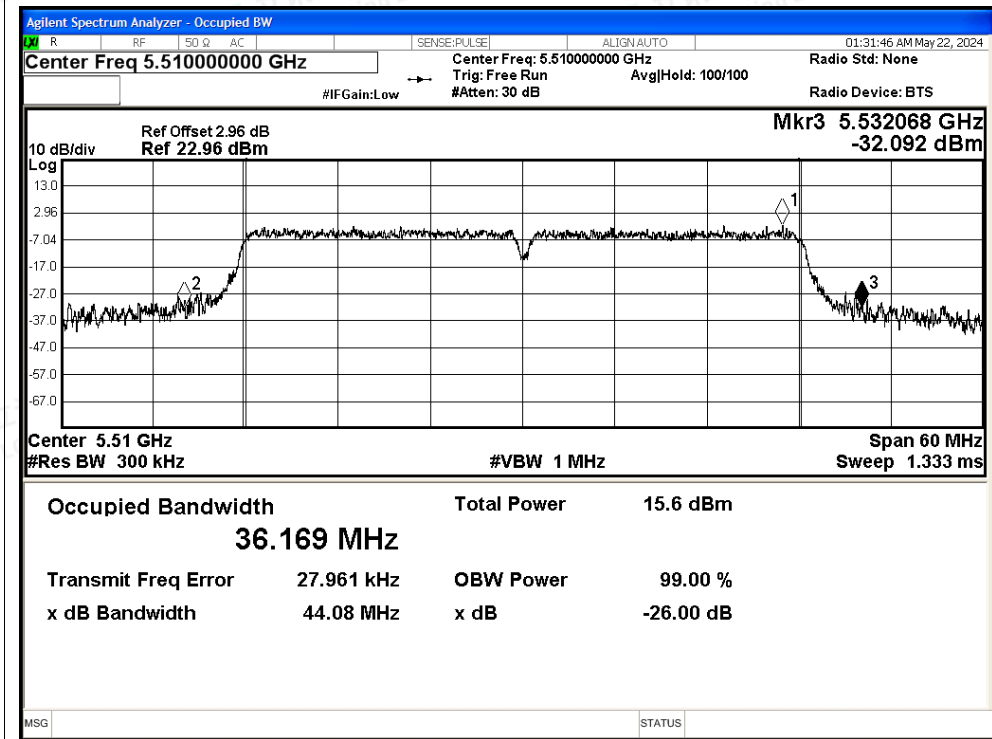


-26dB Bandwidth NVNT n20 5700MHz Ant2

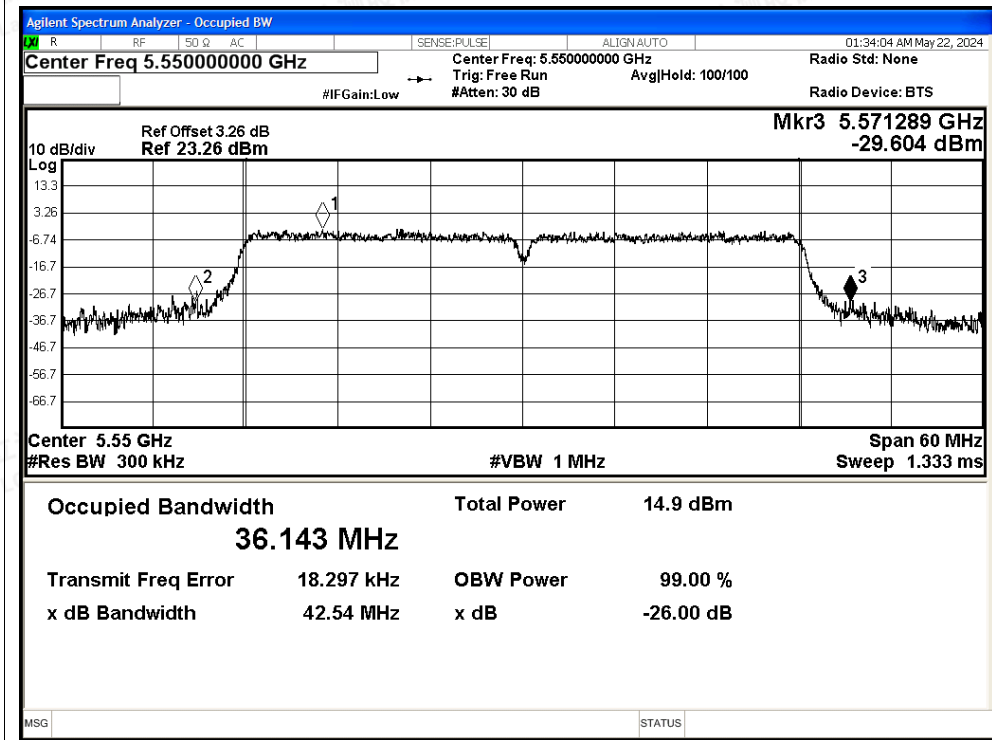




-26dB Bandwidth NVNT n40 5510MHz Ant2

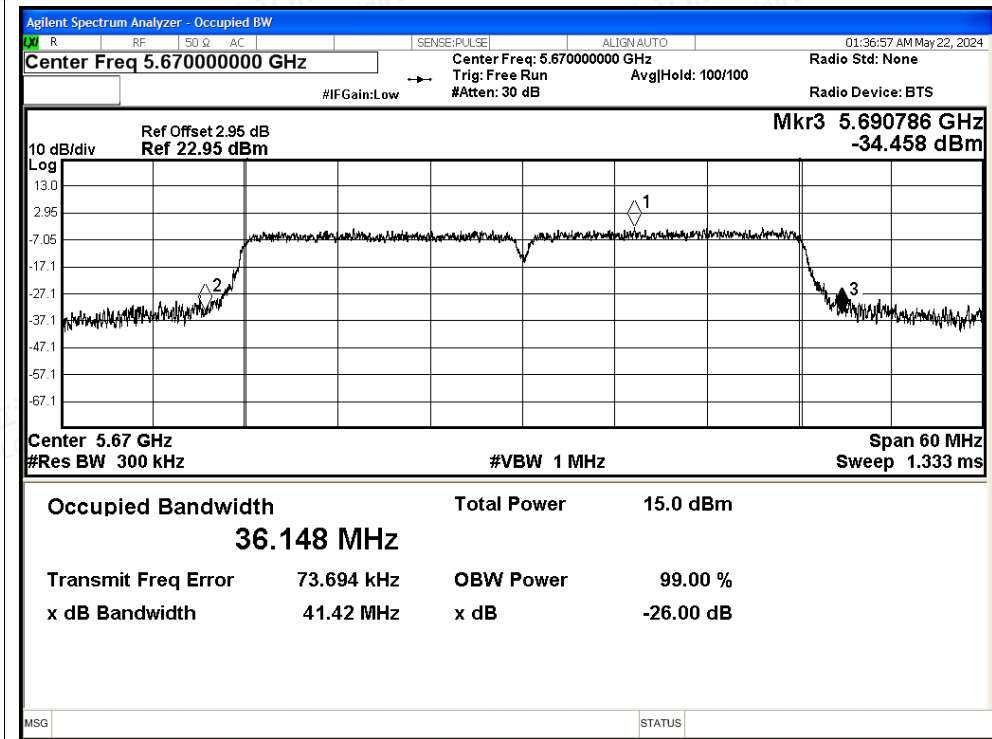


-26dB Bandwidth NVNT n40 5550MHz Ant2

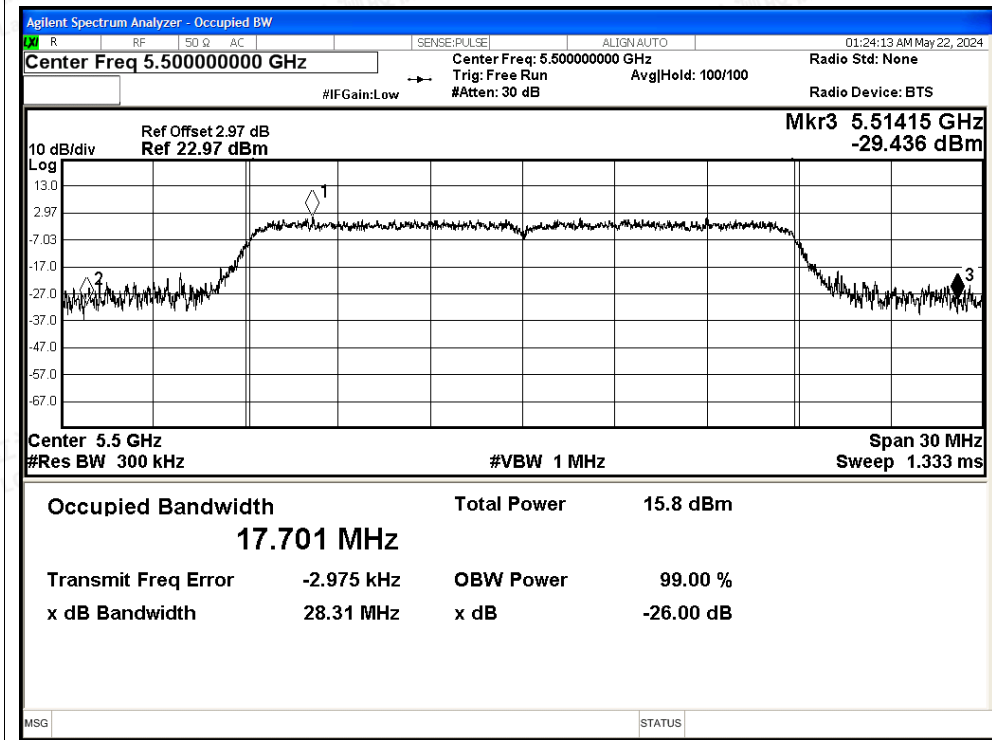




-26dB Bandwidth NVNT n40 5670MHz Ant2

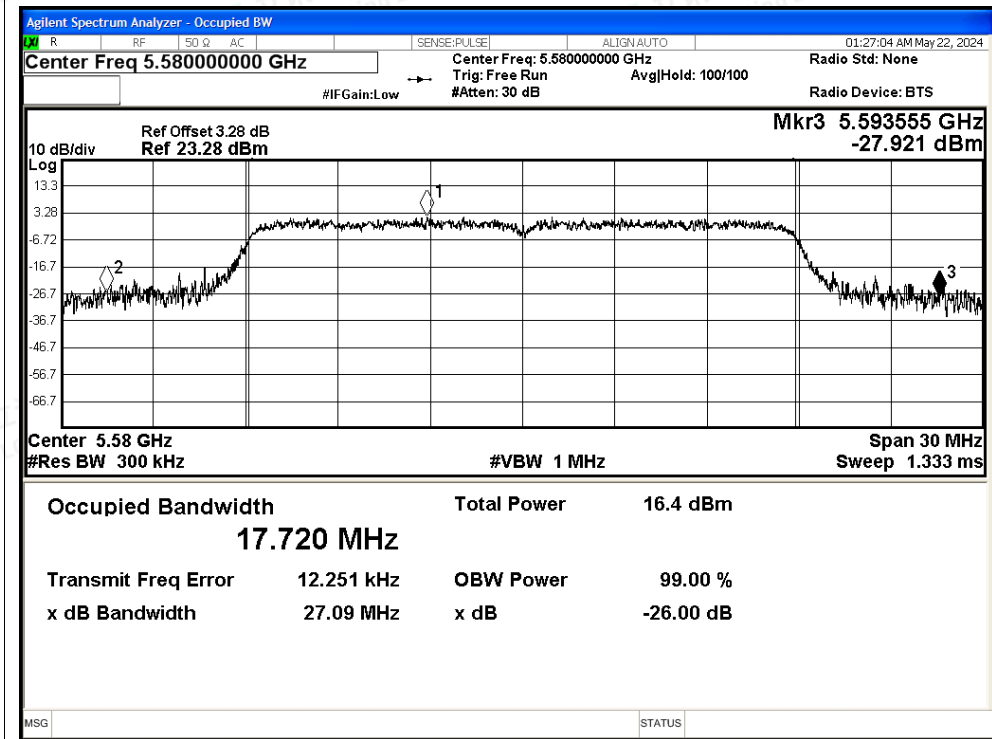


-26dB Bandwidth NVNT ac20 5500MHz Ant2

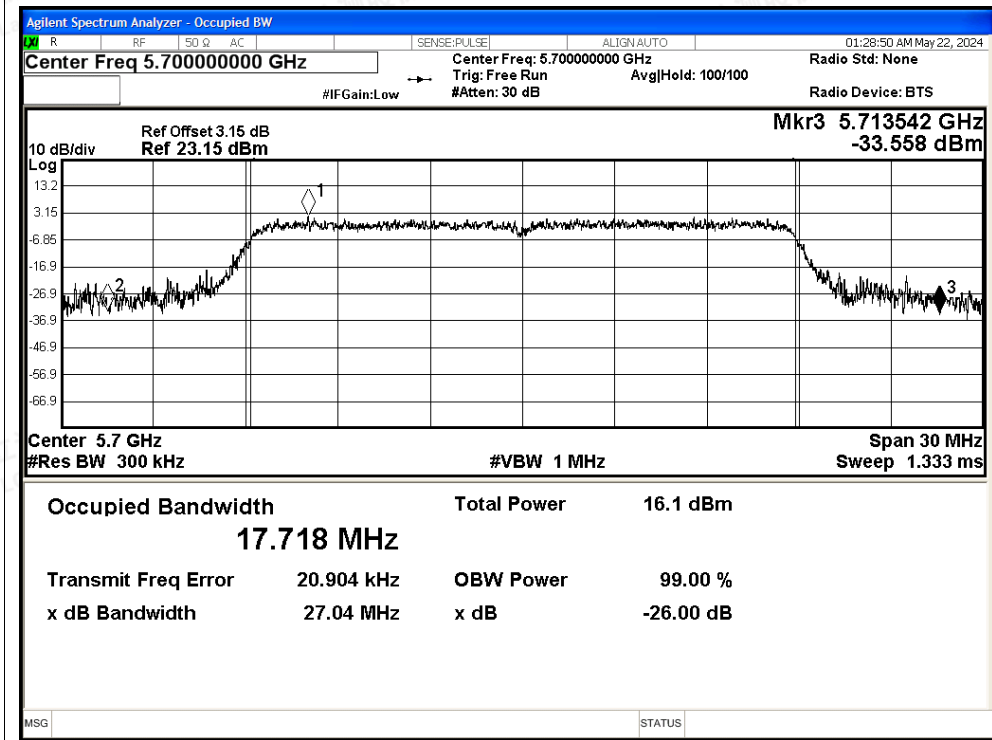




-26dB Bandwidth NVNT ac20 5580MHz Ant2

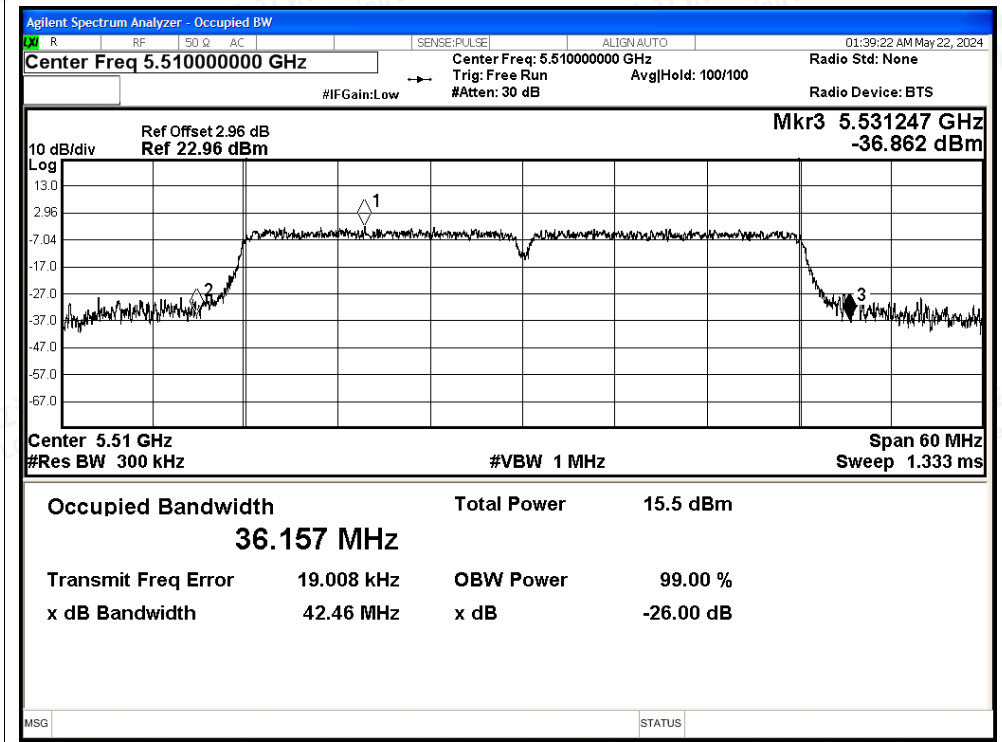


-26dB Bandwidth NVNT ac20 5700MHz Ant2

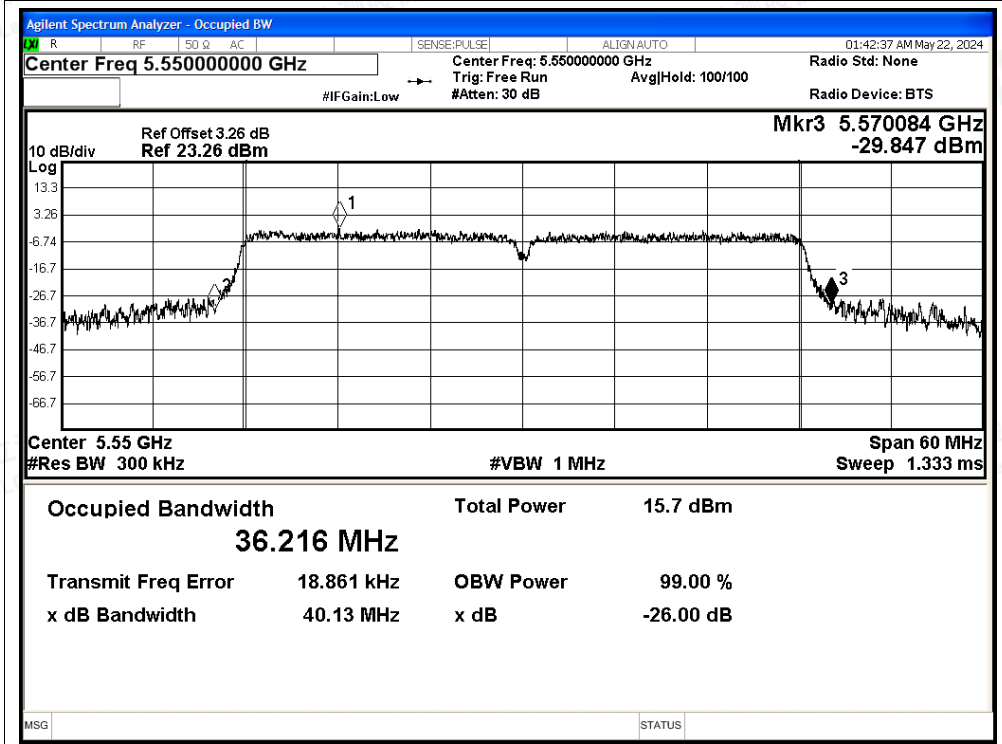




-26dB Bandwidth NVNT ac40 5510MHz Ant2

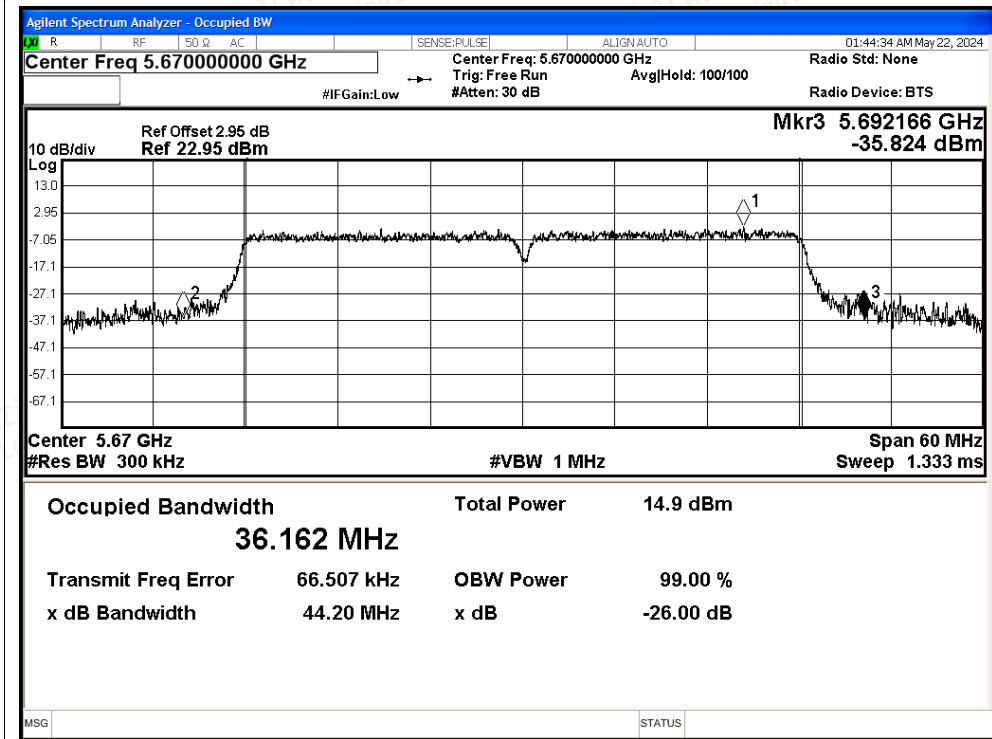


-26dB Bandwidth NVNT ac40 5550MHz Ant2

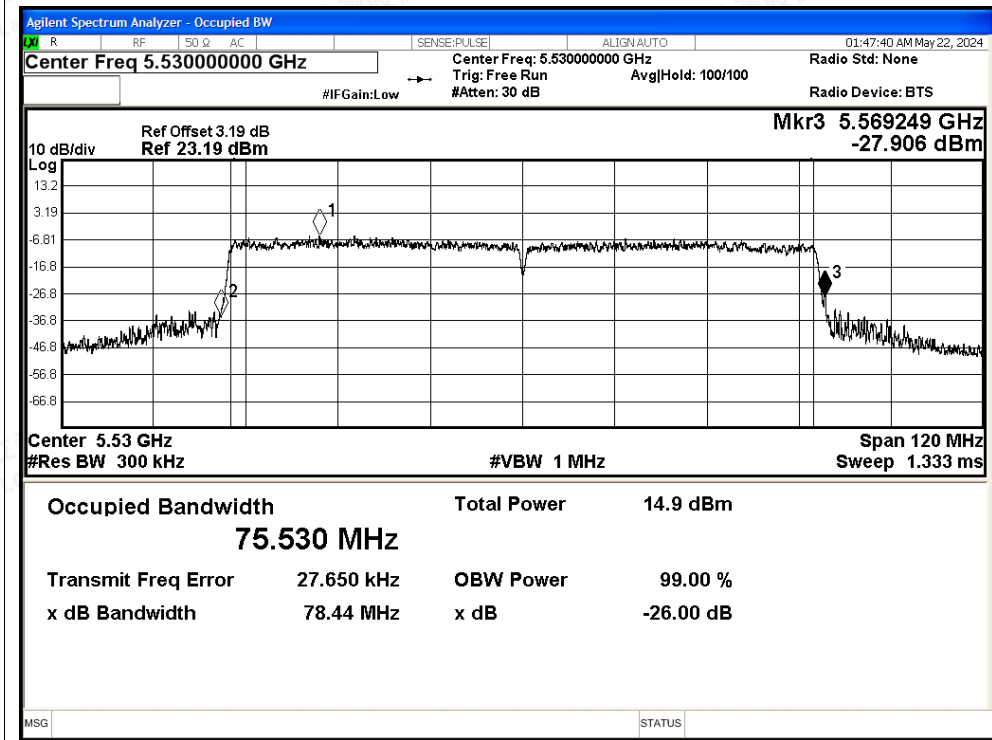


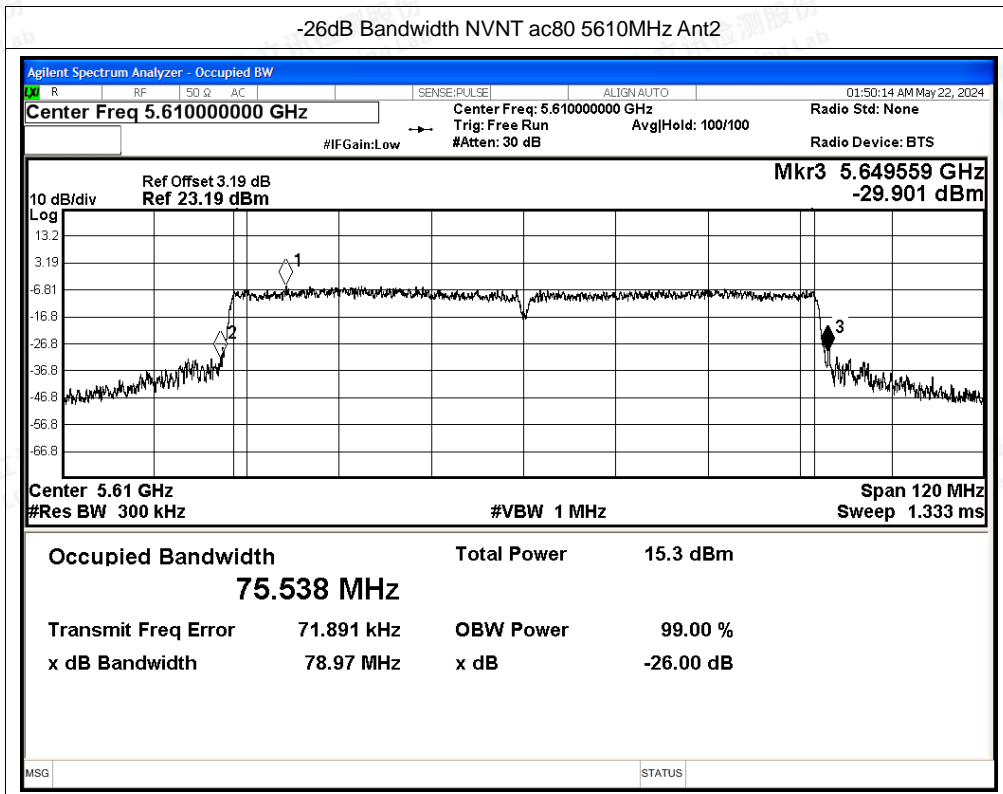


-26dB Bandwidth NVNT ac40 5670MHz Ant2



-26dB Bandwidth NVNT ac80 5530MHz Ant2







F.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	12.67	0.24	12.91	24	Pass
NVNT	a	5580	Ant1	12.29	0.24	12.53	24	Pass
NVNT	a	5700	Ant1	11.95	0.24	12.19	24	Pass
NVNT	n20	5500	Ant1	11.1	0.28	11.38	24	Pass
NVNT	n20	5580	Ant1	11.57	0.28	11.85	24	Pass
NVNT	n20	5700	Ant1	11.3	0.28	11.58	24	Pass
NVNT	n40	5510	Ant1	10.74	0.33	11.07	24	Pass
NVNT	n40	5550	Ant1	10.85	0.33	11.18	24	Pass
NVNT	n40	5670	Ant1	10.93	0.33	11.26	24	Pass
NVNT	ac20	5500	Ant1	11.17	0.28	11.45	24	Pass
NVNT	ac20	5580	Ant1	11.55	0.28	11.83	24	Pass
NVNT	ac20	5700	Ant1	11.23	0.28	11.51	24	Pass
NVNT	ac40	5510	Ant1	10.55	0.33	10.88	24	Pass
NVNT	ac40	5550	Ant1	10.79	0.33	11.12	24	Pass
NVNT	ac40	5670	Ant1	10.94	0.33	11.27	24	Pass
NVNT	ac80	5530	Ant1	9.61	0.52	10.13	24	Pass
NVNT	ac80	5610	Ant1	9.24	0.53	9.77	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant2	11.59	0.24	11.83	24	Pass
NVNT	a	5580	Ant2	11.27	0.24	11.51	24	Pass
NVNT	a	5700	Ant2	11.03	0.24	11.27	24	Pass
NVNT	n20	5500	Ant2	10.1	0.28	10.38	24	Pass
NVNT	n20	5580	Ant2	10.77	0.28	11.05	24	Pass
NVNT	n20	5700	Ant2	10.5	0.28	10.78	24	Pass
NVNT	n40	5510	Ant2	9.86	0.33	10.19	24	Pass
NVNT	n40	5550	Ant2	9.84	0.33	10.17	24	Pass
NVNT	n40	5670	Ant2	9.17	0.33	9.5	24	Pass
NVNT	ac20	5500	Ant2	10.23	0.28	10.51	24	Pass
NVNT	ac20	5580	Ant2	10.65	0.28	10.93	24	Pass
NVNT	ac20	5700	Ant2	10.46	0.28	10.74	24	Pass
NVNT	ac40	5510	Ant2	9.78	0.33	10.11	24	Pass
NVNT	ac40	5550	Ant2	9.81	0.33	10.14	24	Pass
NVNT	ac40	5670	Ant2	9.12	0.33	9.45	24	Pass
NVNT	ac80	5530	Ant2	8.59	0.52	9.11	24	Pass
NVNT	ac80	5610	Ant2	9.03	0.52	9.55	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5500	11.38	10.38	13.92	24	Pass
NVNT	n20	5580	11.85	11.05	14.48	24	Pass
NVNT	n20	5700	11.58	10.78	14.21	24	Pass
NVNT	n40	5510	11.07	10.19	13.66	24	Pass
NVNT	n40	5550	11.18	10.17	13.71	24	Pass
NVNT	n40	5670	11.26	9.5	13.48	24	Pass
NVNT	ac20	5500	11.45	10.51	14.02	24	Pass
NVNT	ac20	5580	11.83	10.93	14.41	24	Pass
NVNT	ac20	5700	11.51	10.74	14.15	24	Pass
NVNT	ac40	5510	10.88	10.11	13.52	24	Pass
NVNT	ac40	5550	11.12	10.14	13.67	24	Pass
NVNT	ac40	5670	11.27	9.45	13.46	24	Pass
NVNT	ac80	5530	10.13	9.11	12.66	24	Pass
NVNT	ac80	5610	9.77	9.55	12.67	24	Pass





F.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	5500	Ant1	1.85	0.24	2.09	11	Pass
NVNT	a	5580	Ant1	1.57	0.24	1.81	11	Pass
NVNT	a	5700	Ant1	1.7	0.24	1.94	11	Pass
NVNT	n20	5500	Ant1	0.32	0.28	0.6	11	Pass
NVNT	n20	5580	Ant1	0.88	0.28	1.16	11	Pass
NVNT	n20	5700	Ant1	0.8	0.28	1.08	11	Pass
NVNT	n40	5510	Ant1	-2.75	0.33	-2.42	11	Pass
NVNT	n40	5550	Ant1	-2.9	0.33	-2.57	11	Pass
NVNT	n40	5670	Ant1	-2.42	0.33	-2.09	11	Pass
NVNT	ac20	5500	Ant1	0.41	0.28	0.69	11	Pass
NVNT	ac20	5580	Ant1	0.83	0.28	1.11	11	Pass
NVNT	ac20	5700	Ant1	0.48	0.28	0.76	11	Pass
NVNT	ac40	5510	Ant1	-2.83	0.33	-2.5	11	Pass
NVNT	ac40	5550	Ant1	-2.89	0.33	-2.56	11	Pass
NVNT	ac40	5670	Ant1	-2.52	0.33	-2.19	11	Pass
NVNT	ac80	5530	Ant1	-6.52	0.52	-6	11	Pass
NVNT	ac80	5610	Ant1	-7.34	0.53	-6.81	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant2	1.25	0.24	1.49	11	Pass
NVNT	a	5580	Ant2	0.64	0.24	0.88	11	Pass
NVNT	a	5700	Ant2	0.48	0.24	0.72	11	Pass
NVNT	n20	5500	Ant2	1.16	0.28	1.44	11	Pass
NVNT	n20	5580	Ant2	0.81	0.28	1.09	11	Pass
NVNT	n20	5700	Ant2	0.36	0.28	0.64	11	Pass
NVNT	n40	5510	Ant2	-3.96	0.33	-3.63	11	Pass
NVNT	n40	5550	Ant2	-4.57	0.33	-4.24	11	Pass
NVNT	n40	5670	Ant2	-4.61	0.33	-4.28	11	Pass
NVNT	ac20	5500	Ant2	-0.77	0.28	-0.49	11	Pass
NVNT	ac20	5580	Ant2	-0.31	0.28	-0.03	11	Pass
NVNT	ac20	5700	Ant2	0.01	0.28	0.29	11	Pass
NVNT	ac40	5510	Ant2	-4.24	0.33	-3.91	11	Pass
NVNT	ac40	5550	Ant2	-3.75	0.33	-3.42	11	Pass
NVNT	ac40	5670	Ant2	-4.55	0.33	-4.22	11	Pass
NVNT	ac80	5530	Ant2	-7.61	0.52	-7.09	11	Pass
NVNT	ac80	5610	Ant2	-7.64	0.52	-7.12	11	Pass





MIMO

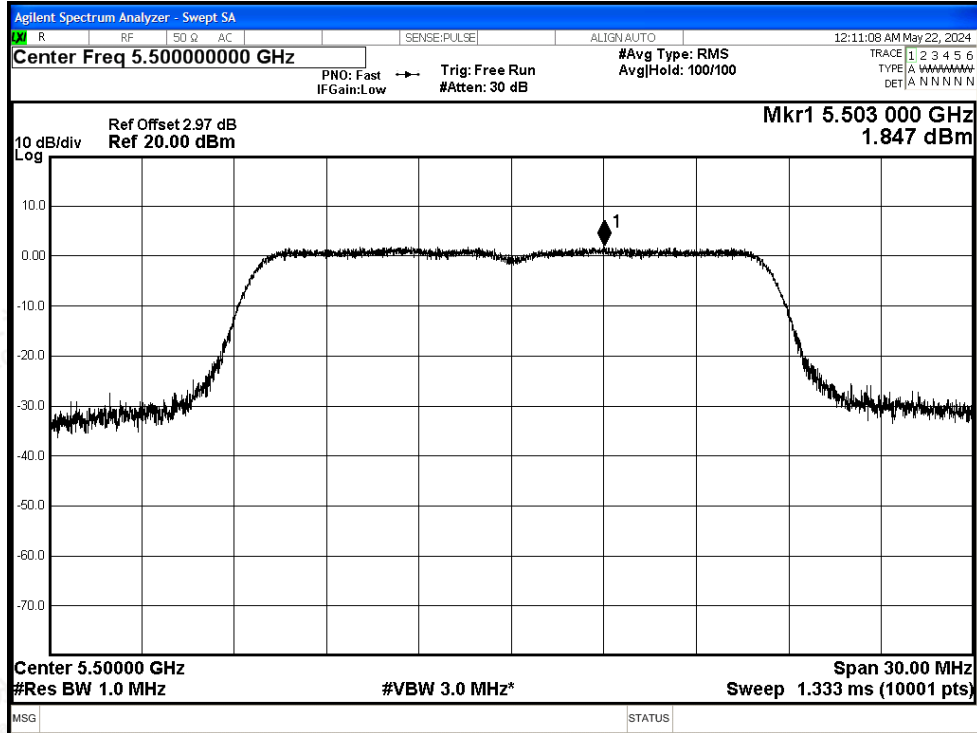
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5500	0.6	1.44	4.05	11	Pass
NVNT	n20	5580	1.16	1.09	4.14	11	Pass
NVNT	n20	5700	1.08	0.64	3.88	11	Pass
NVNT	n40	5510	-2.42	-3.63	0.03	11	Pass
NVNT	n40	5550	-2.57	-4.24	-0.31	11	Pass
NVNT	n40	5670	-2.09	-4.28	-0.04	11	Pass
NVNT	ac20	5500	0.69	-0.49	3.15	11	Pass
NVNT	ac20	5580	1.11	-0.03	3.59	11	Pass
NVNT	ac20	5700	0.76	0.29	3.54	11	Pass
NVNT	ac40	5510	-2.5	-3.91	-0.14	11	Pass
NVNT	ac40	5550	-2.56	-3.42	0.04	11	Pass
NVNT	ac40	5670	-2.19	-4.22	-0.08	11	Pass
NVNT	ac80	5530	-6	-7.09	-3.50	11	Pass
NVNT	ac80	5610	-6.81	-7.12	-3.95	11	Pass



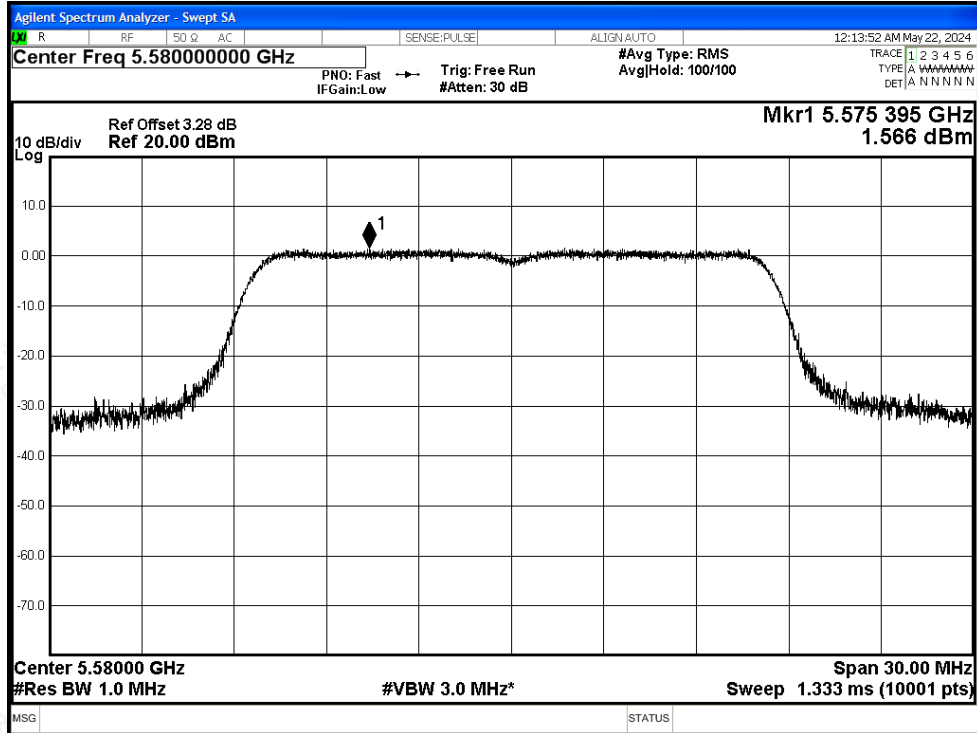


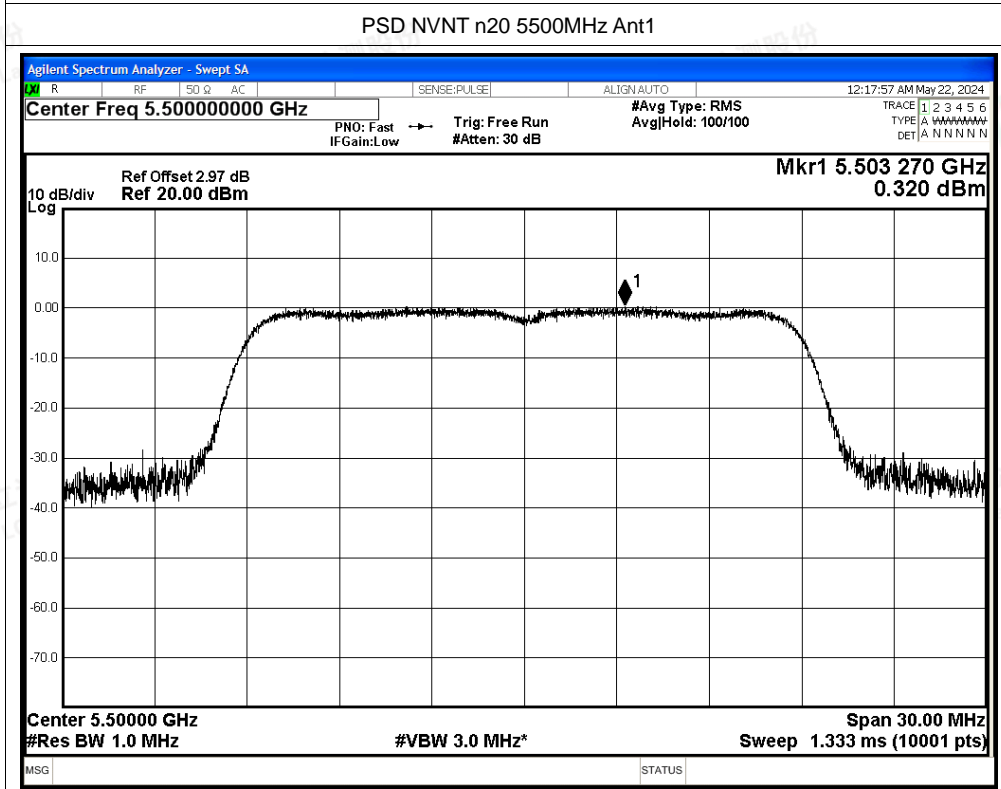
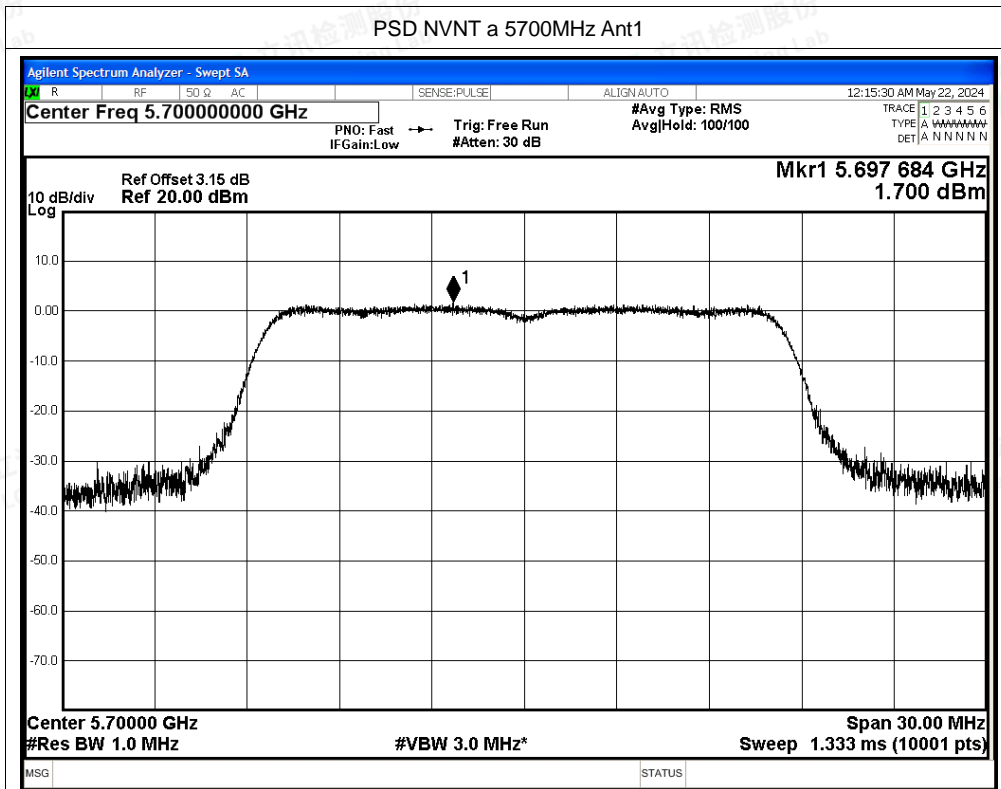
Test Graphs

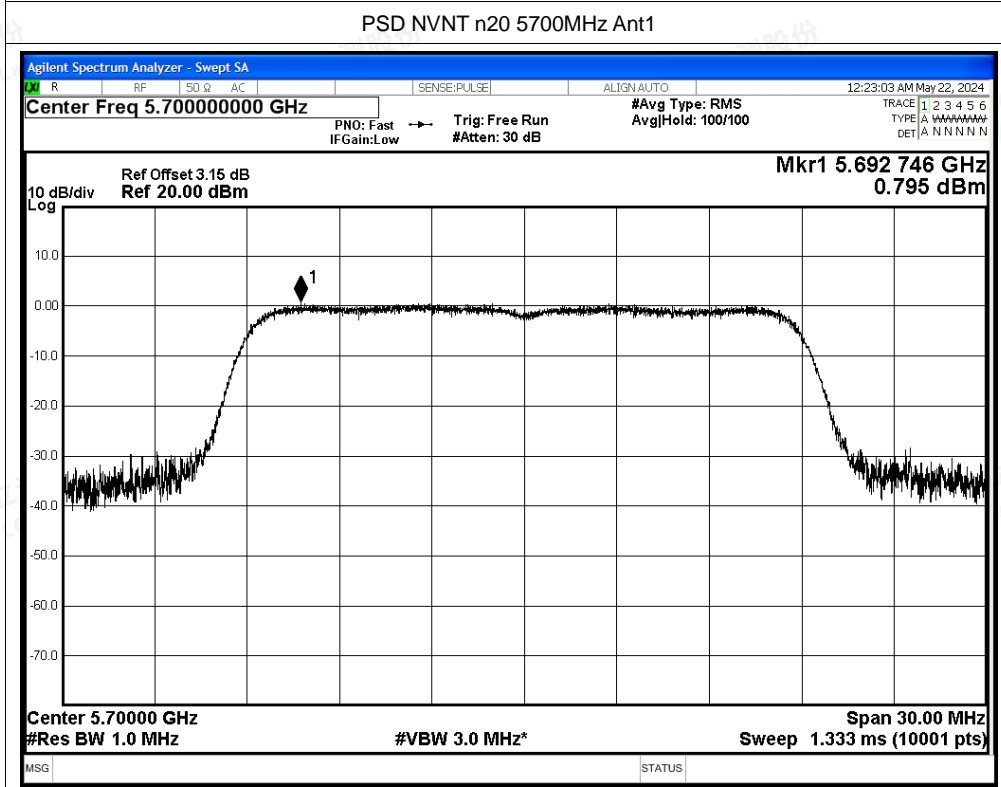
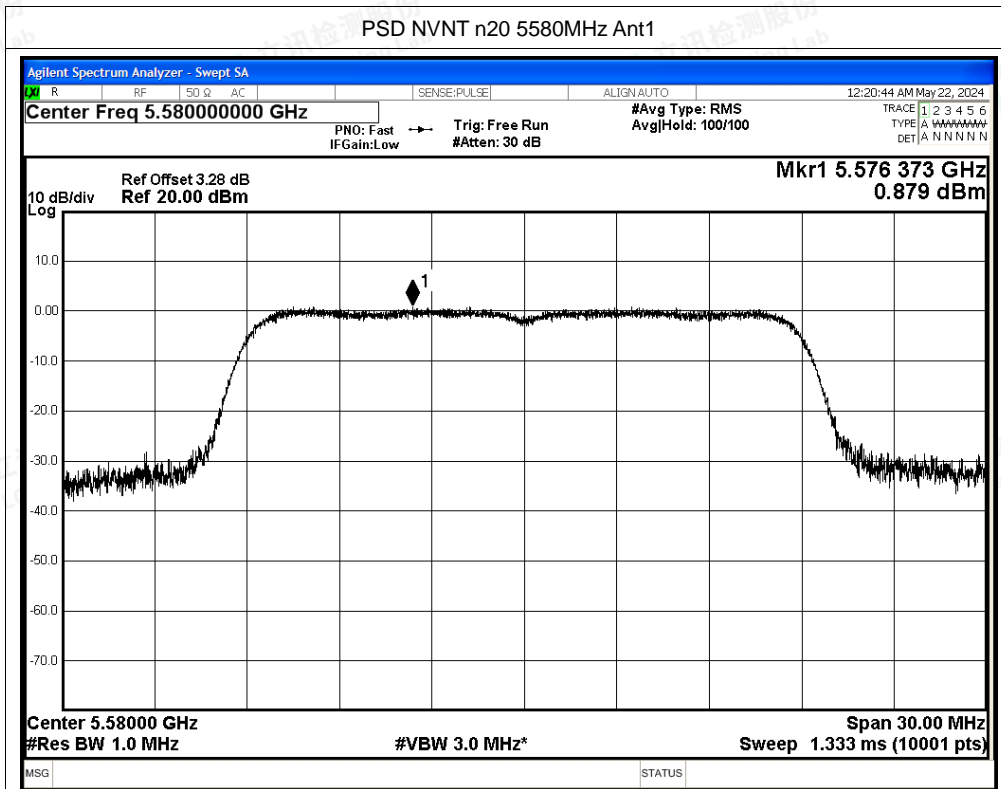
PSD NVNT a 5500MHz Ant1

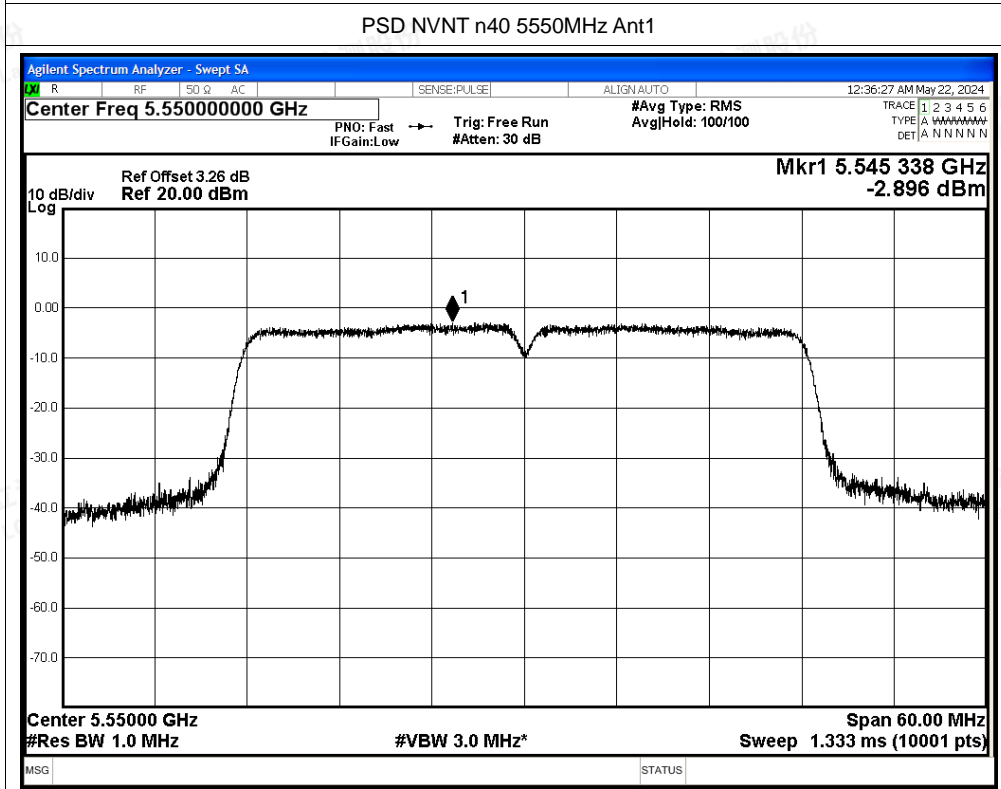
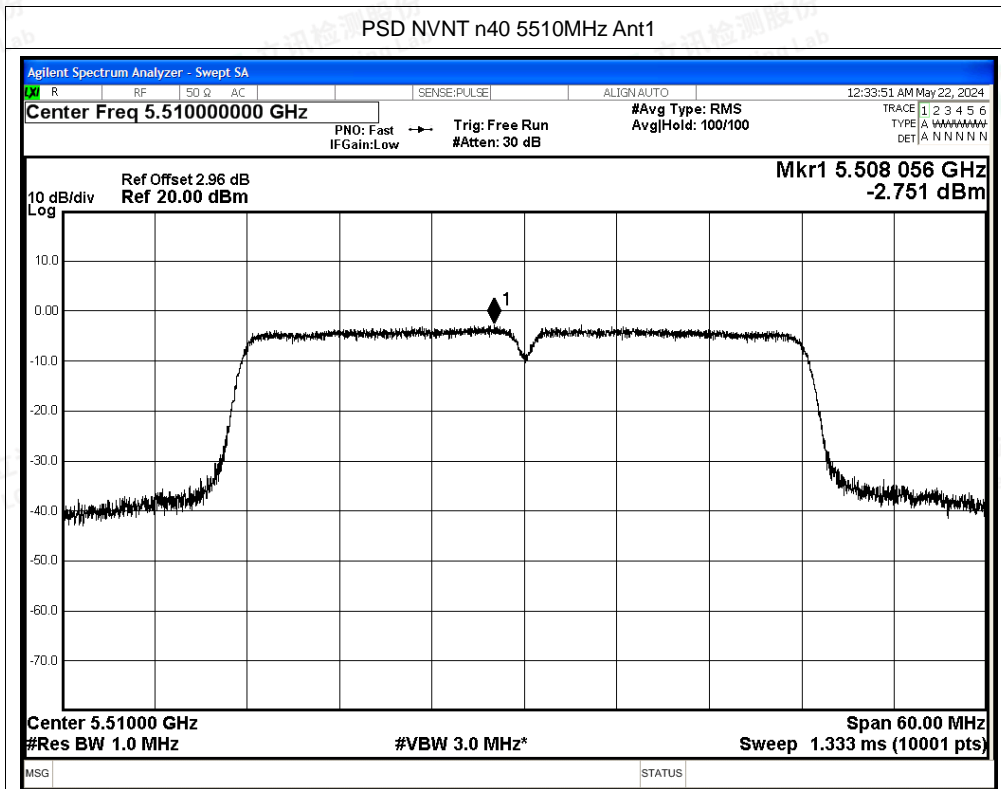


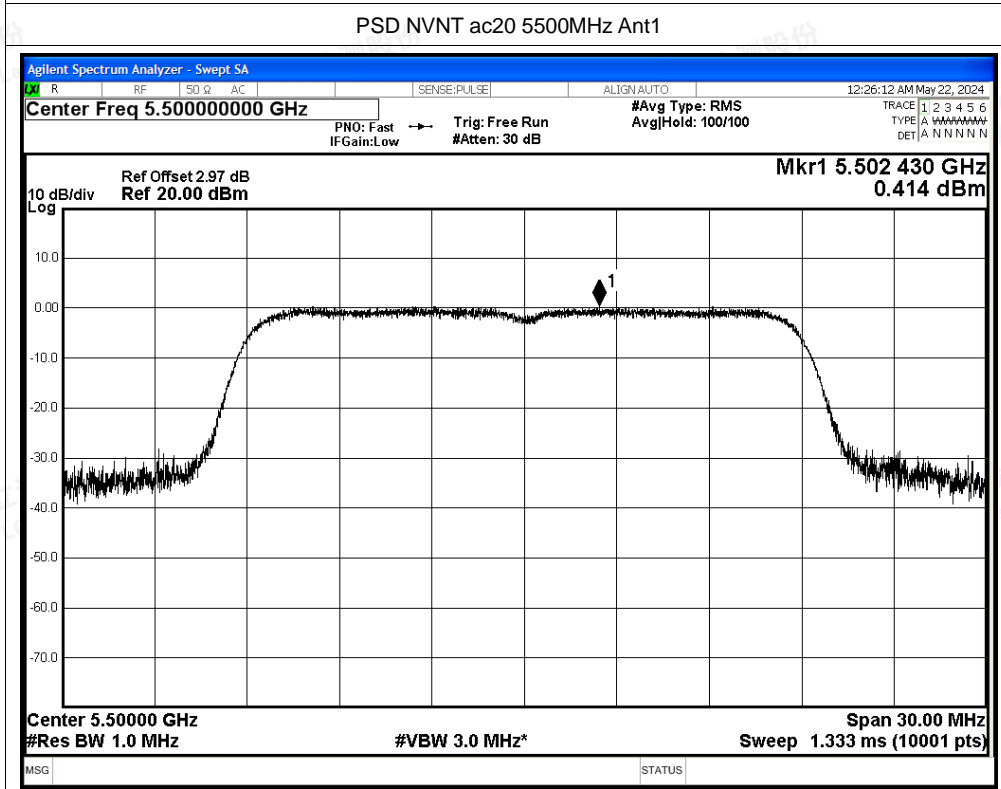
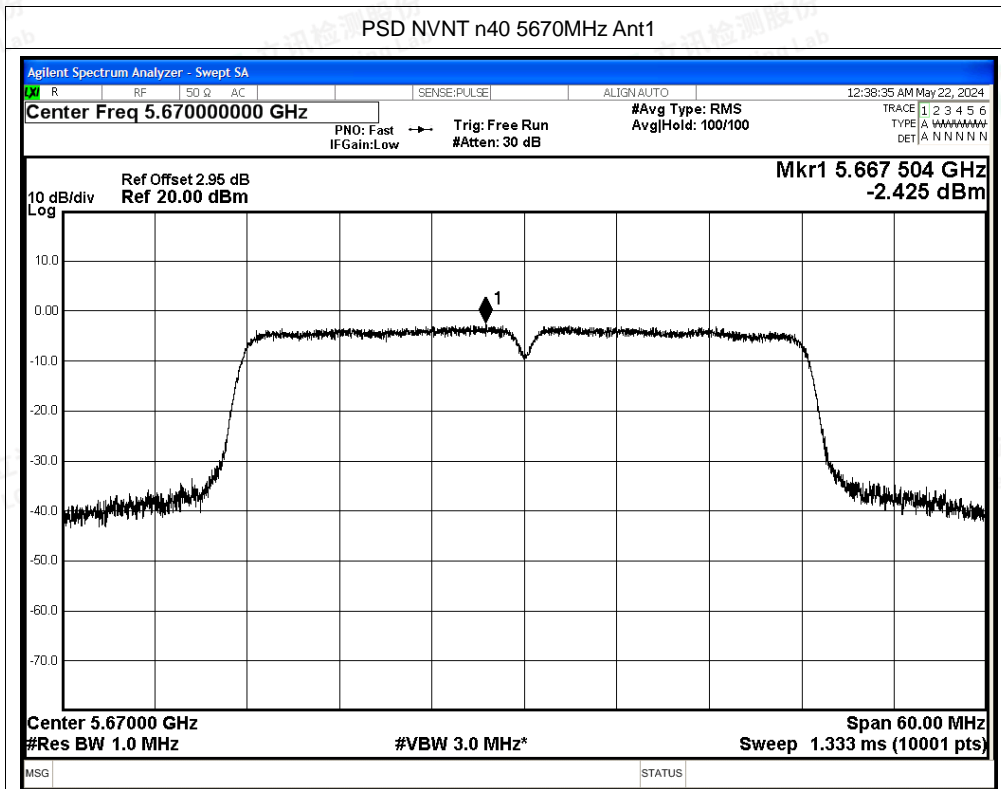
PSD NVNT a 5580MHz Ant1

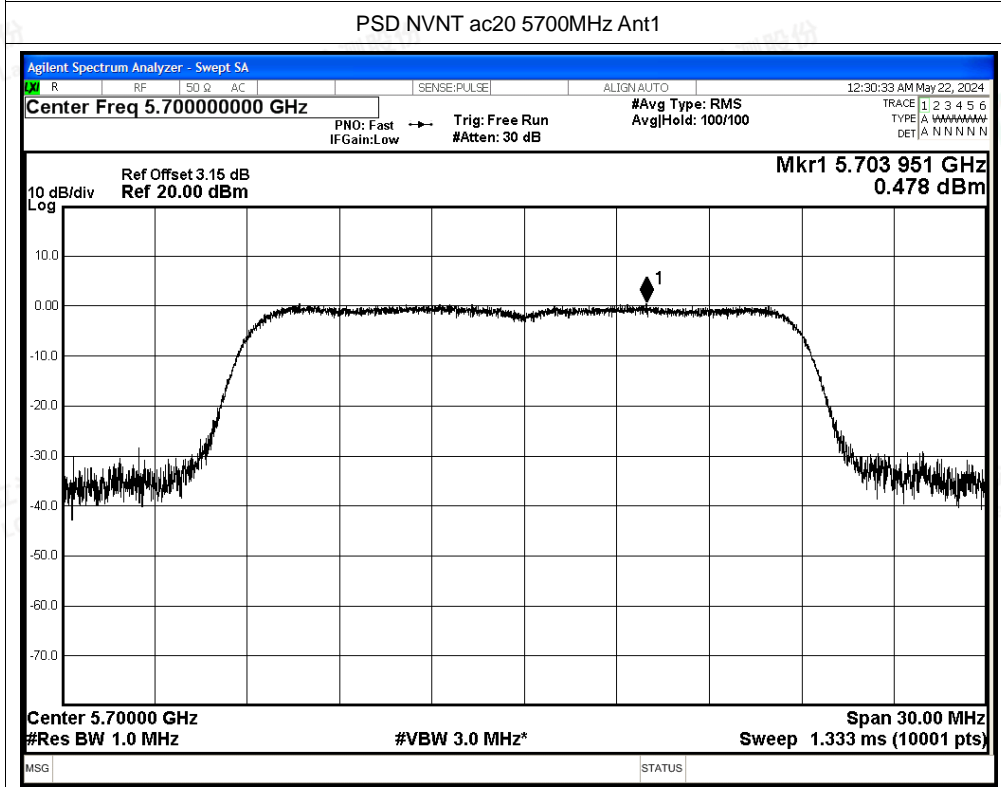
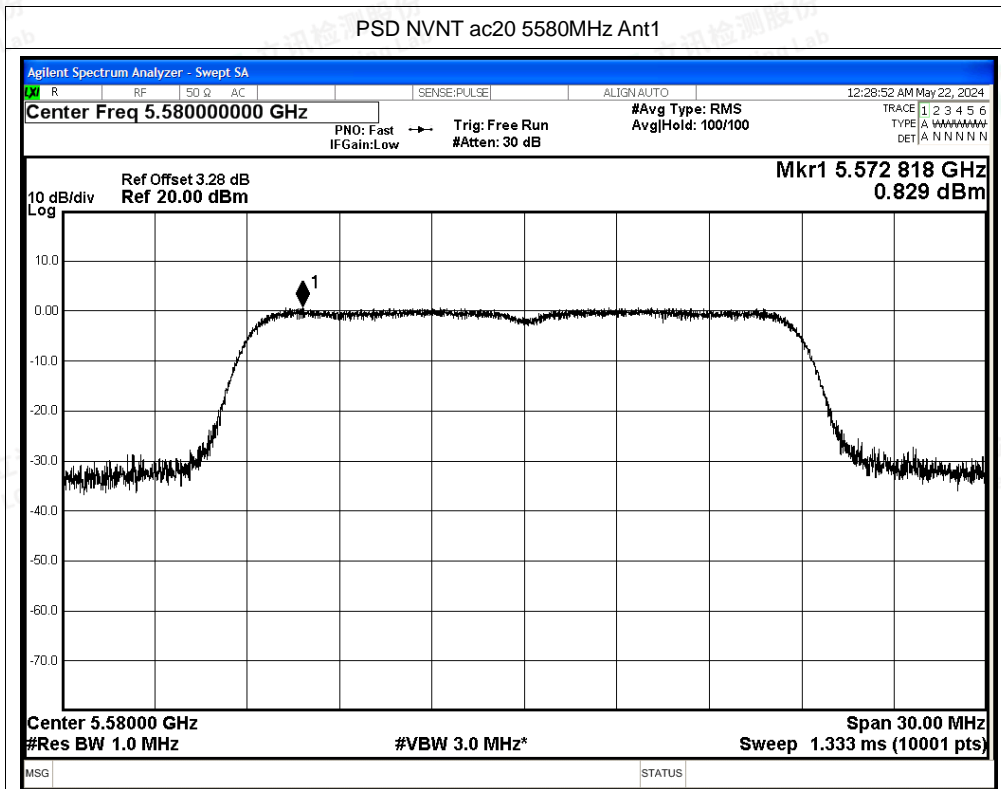


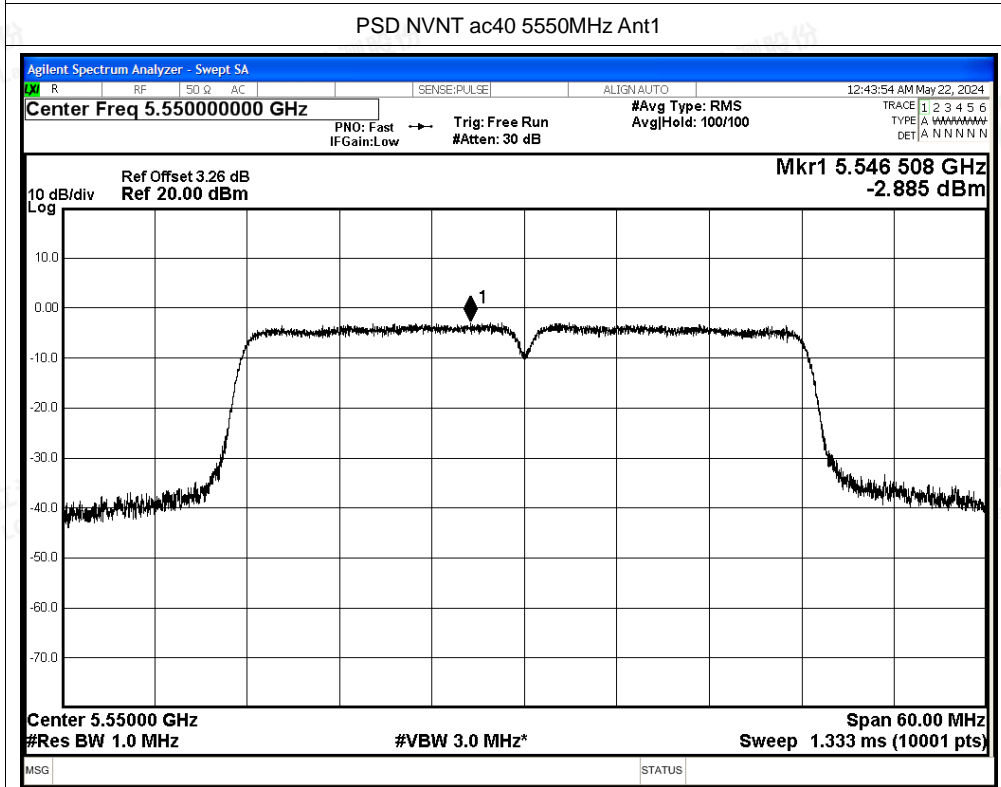
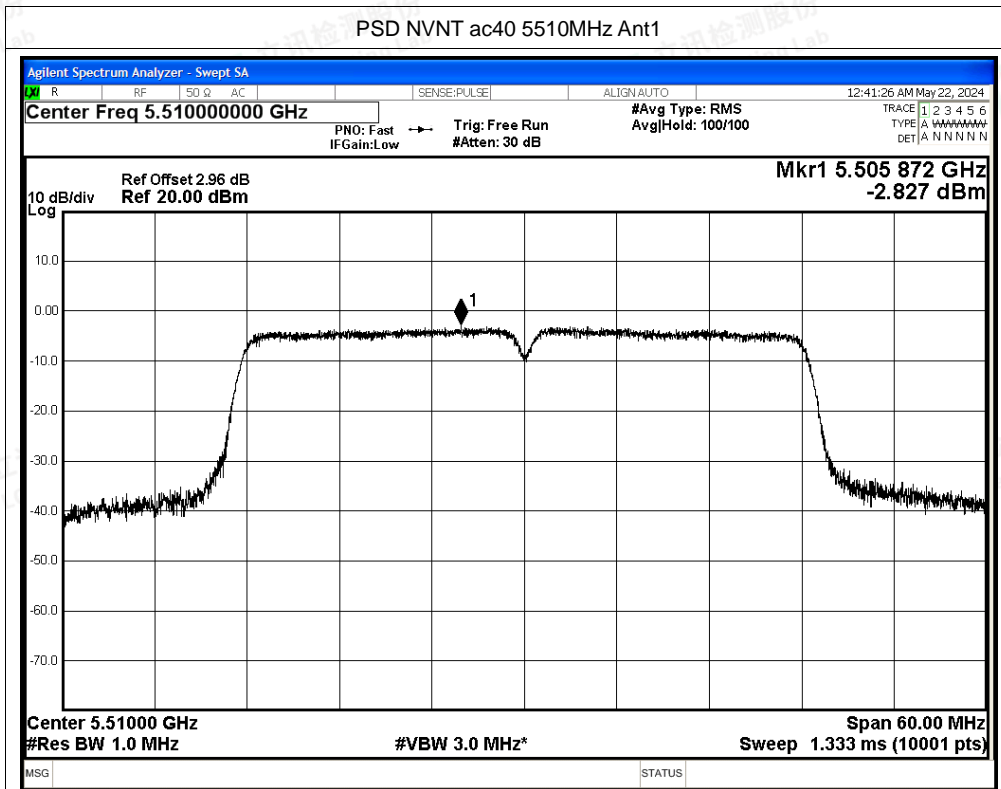


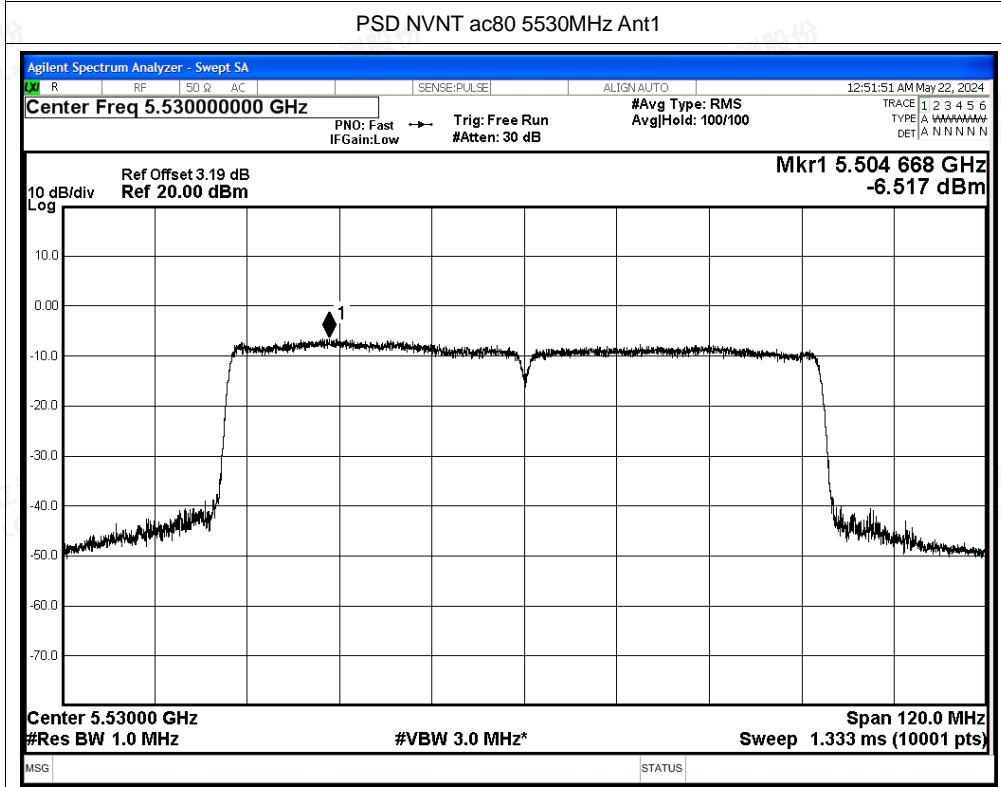
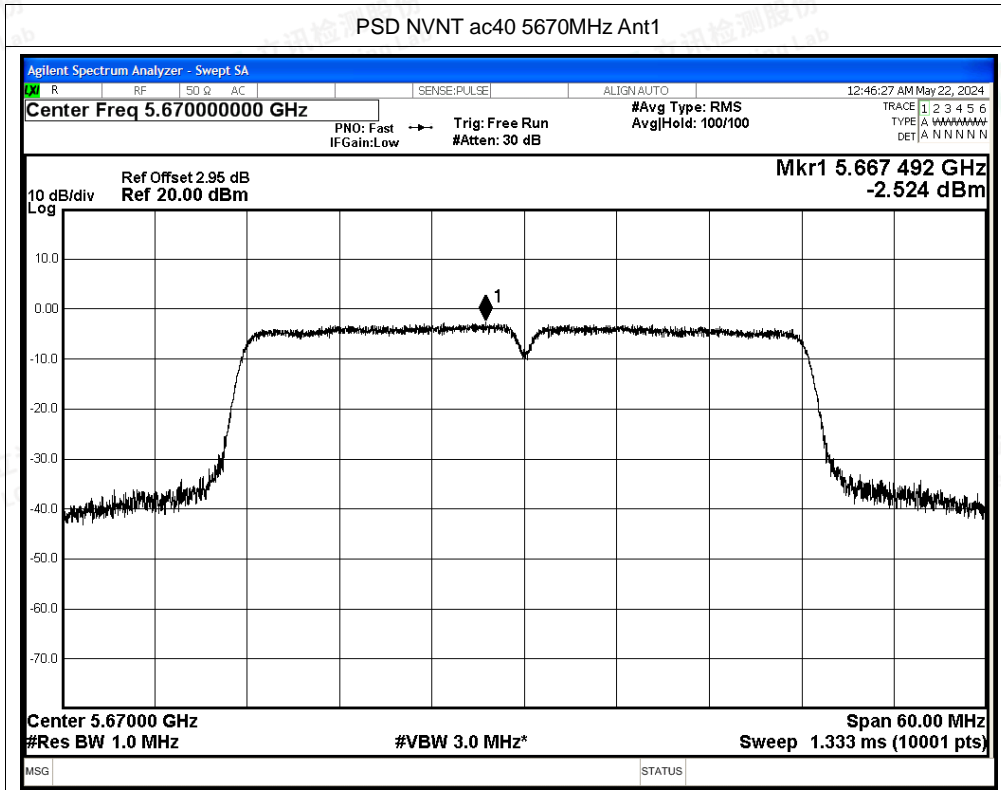


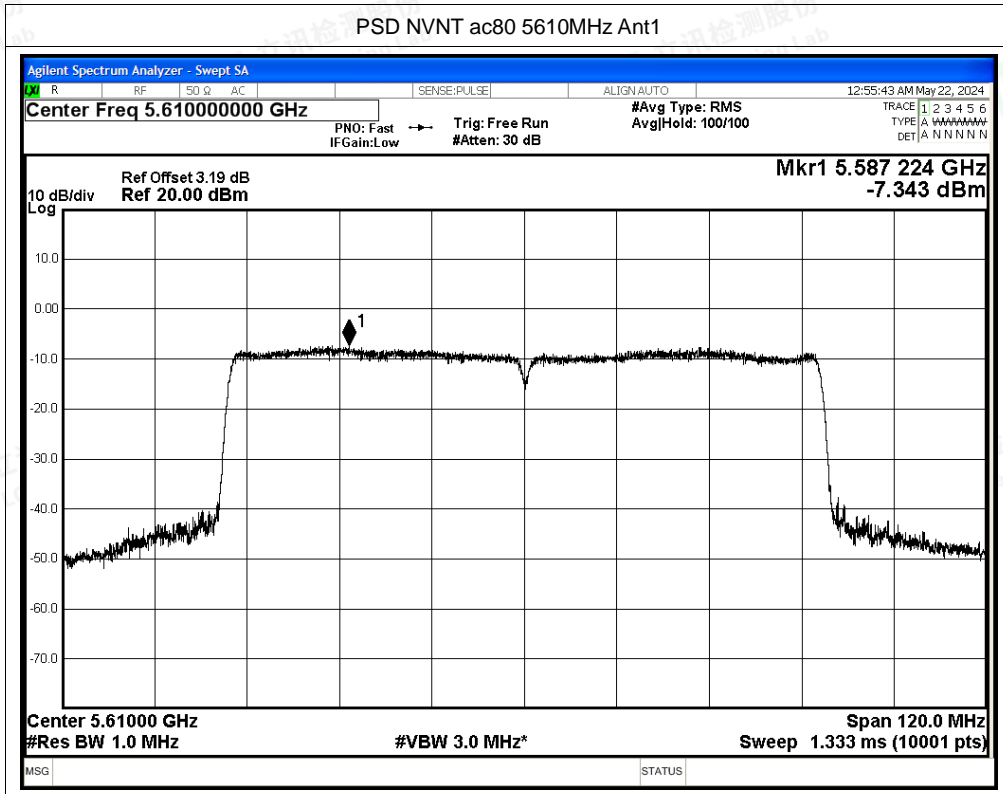








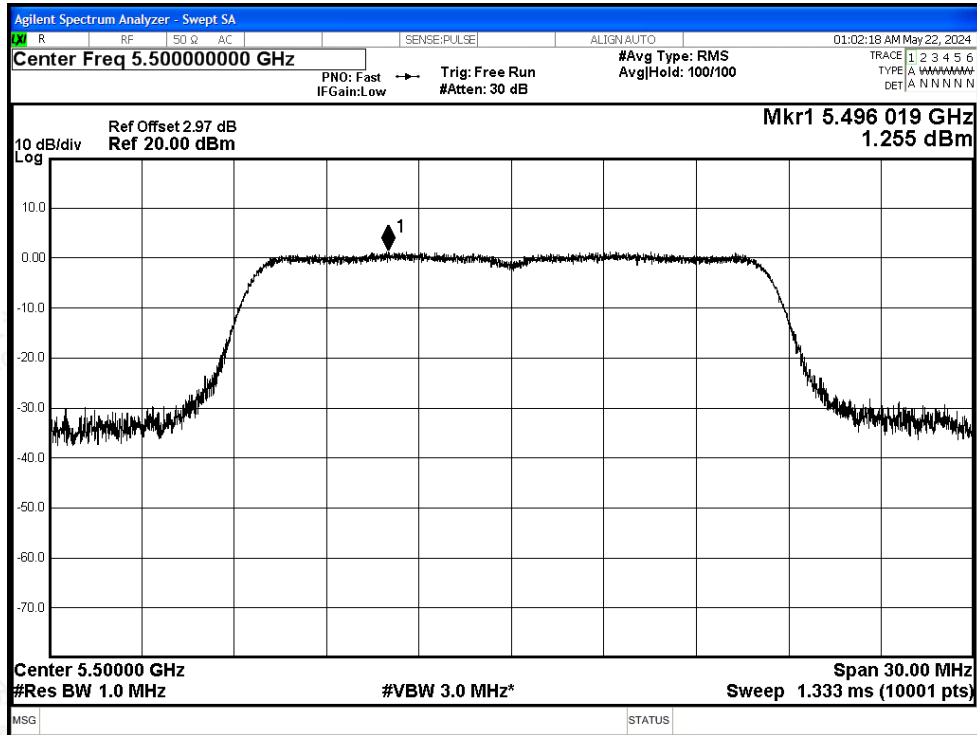




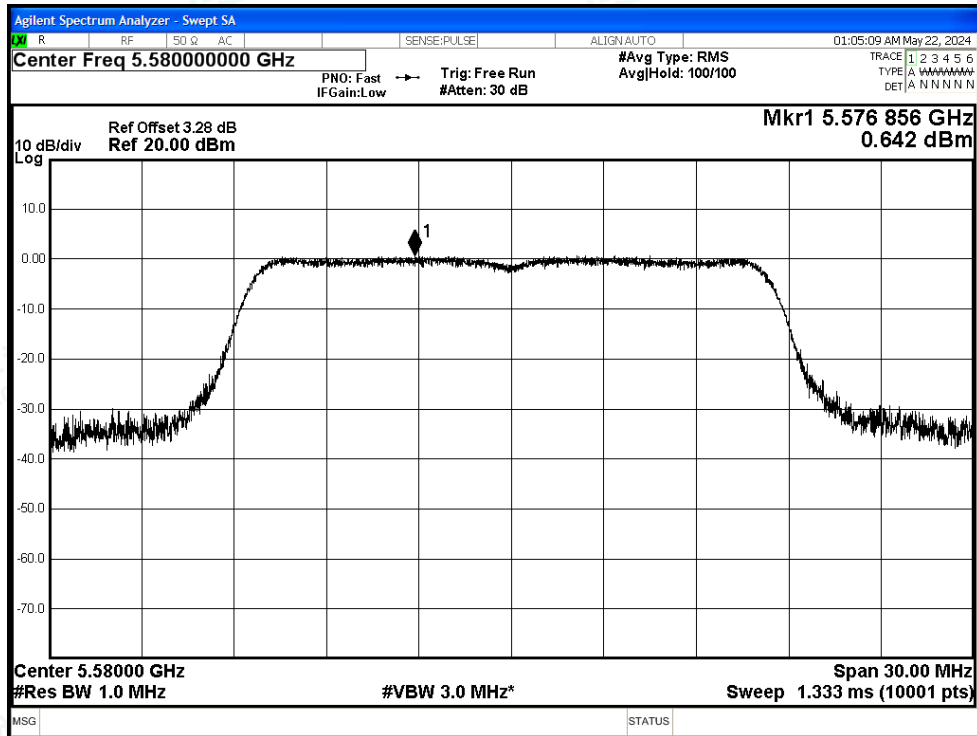


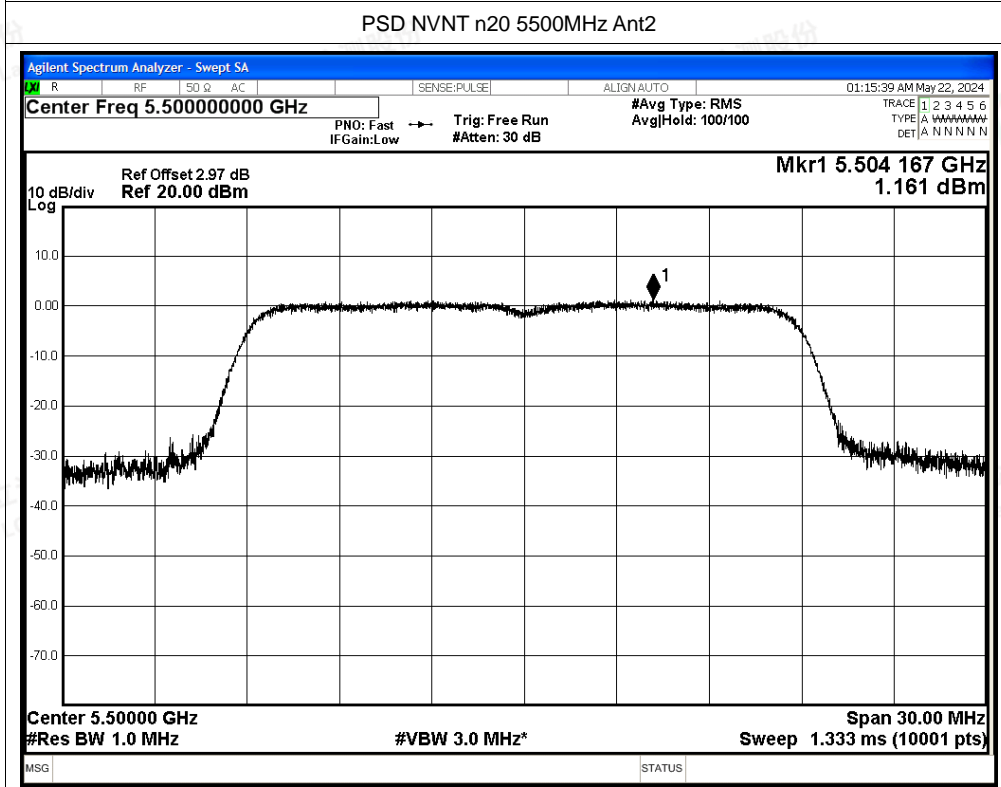
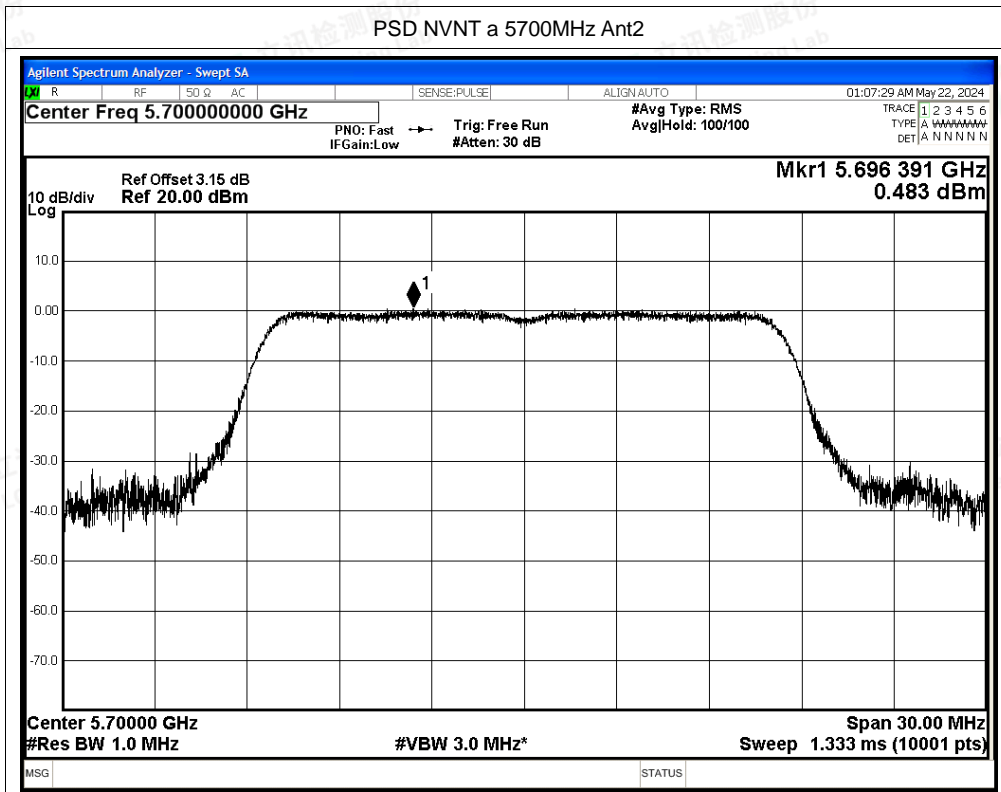
Test Graphs

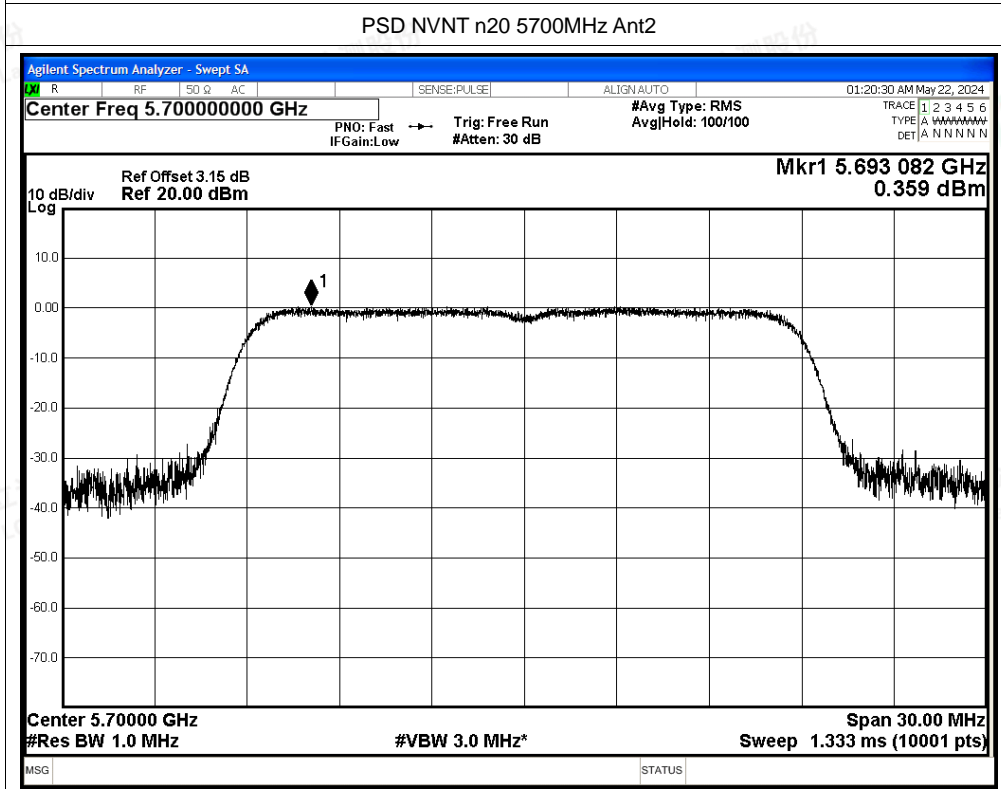
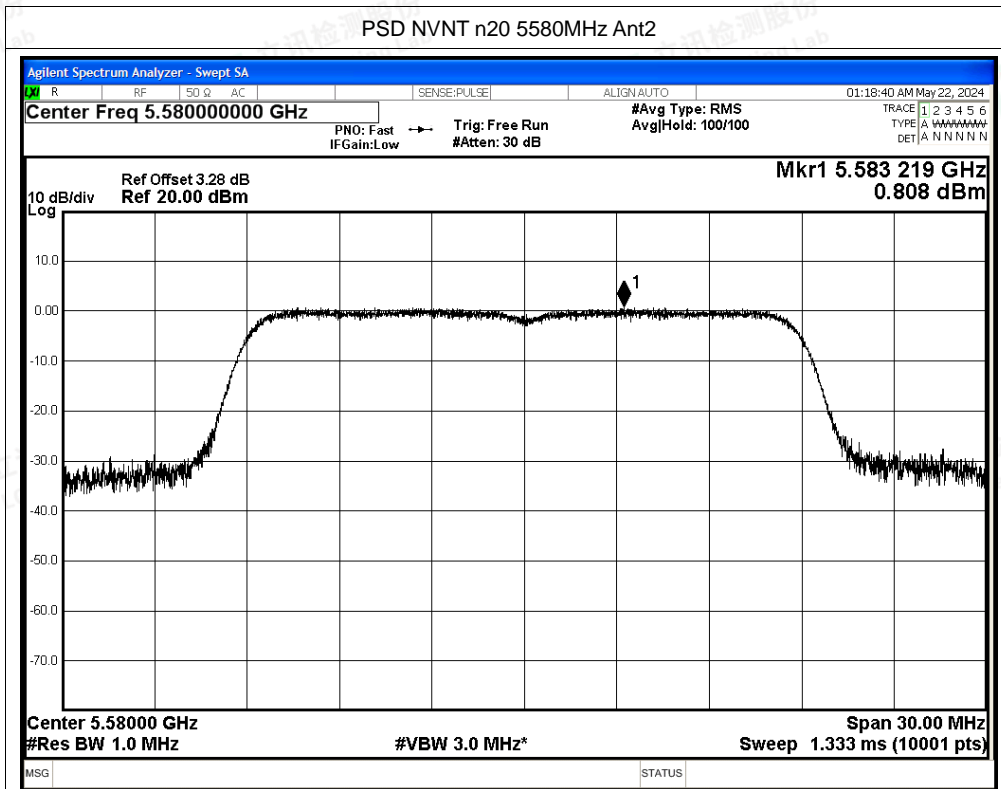
PSD NVNT a 5500MHz Ant2

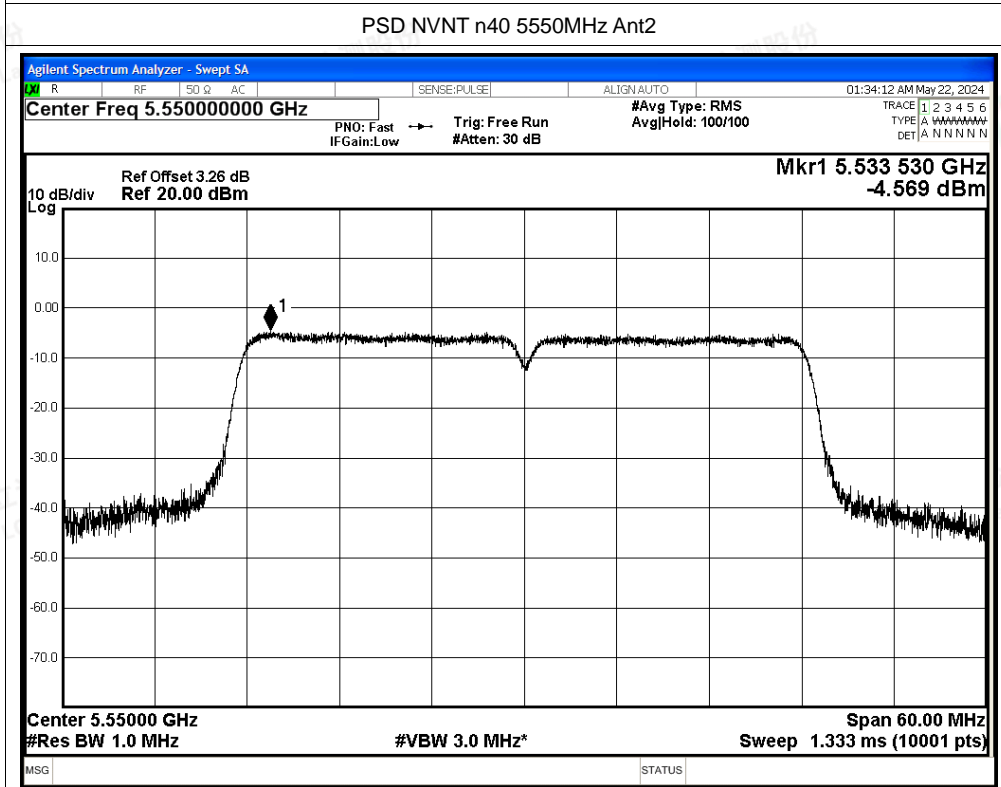
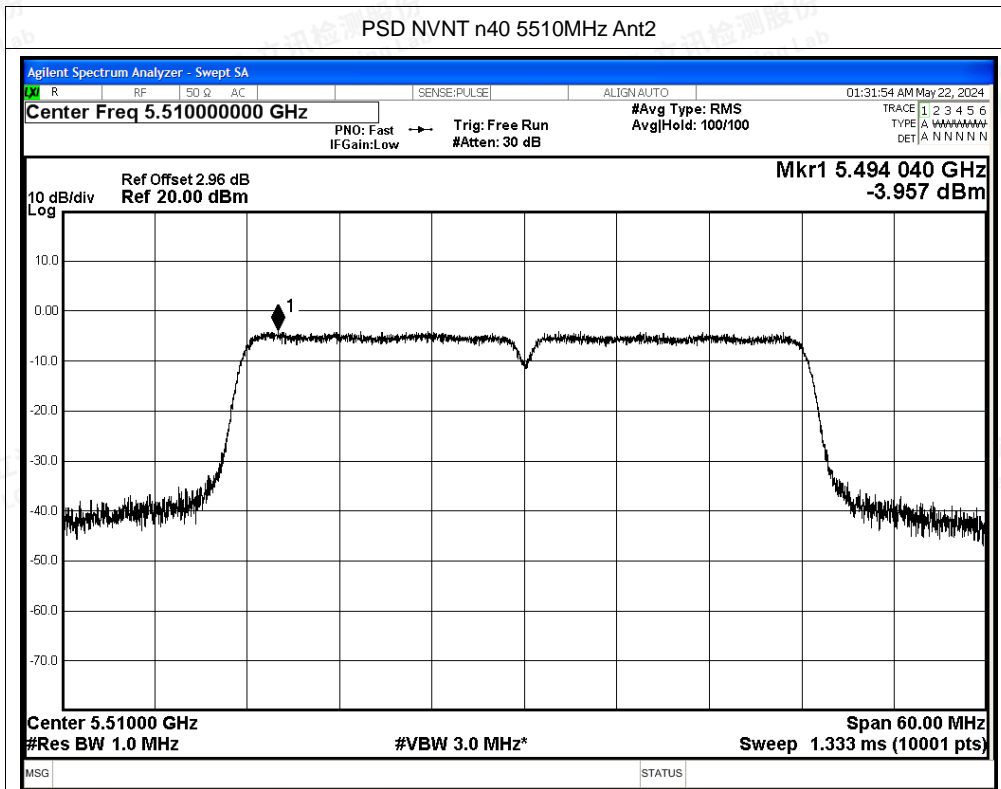


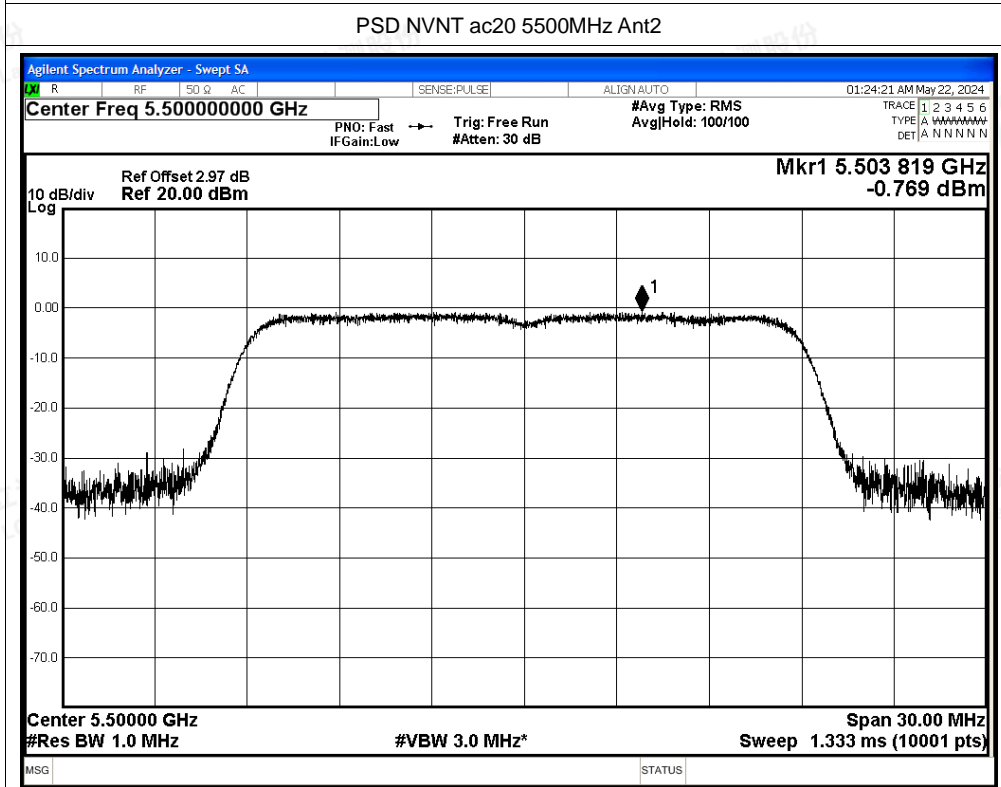
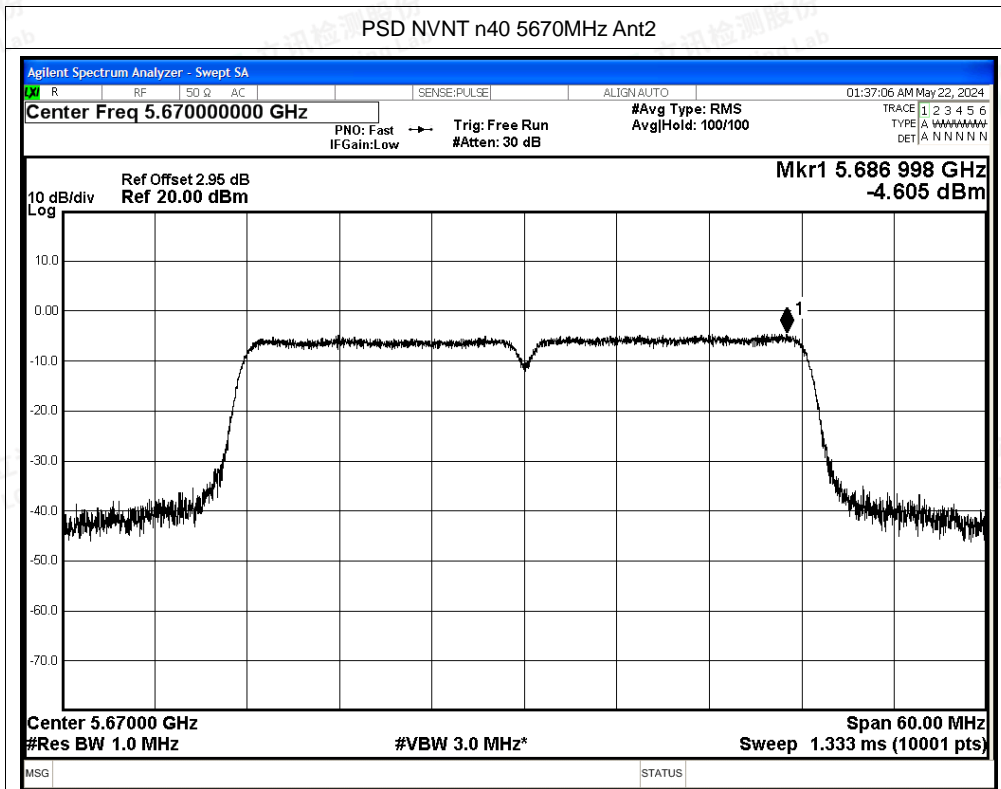
PSD NVNT a 5580MHz Ant2

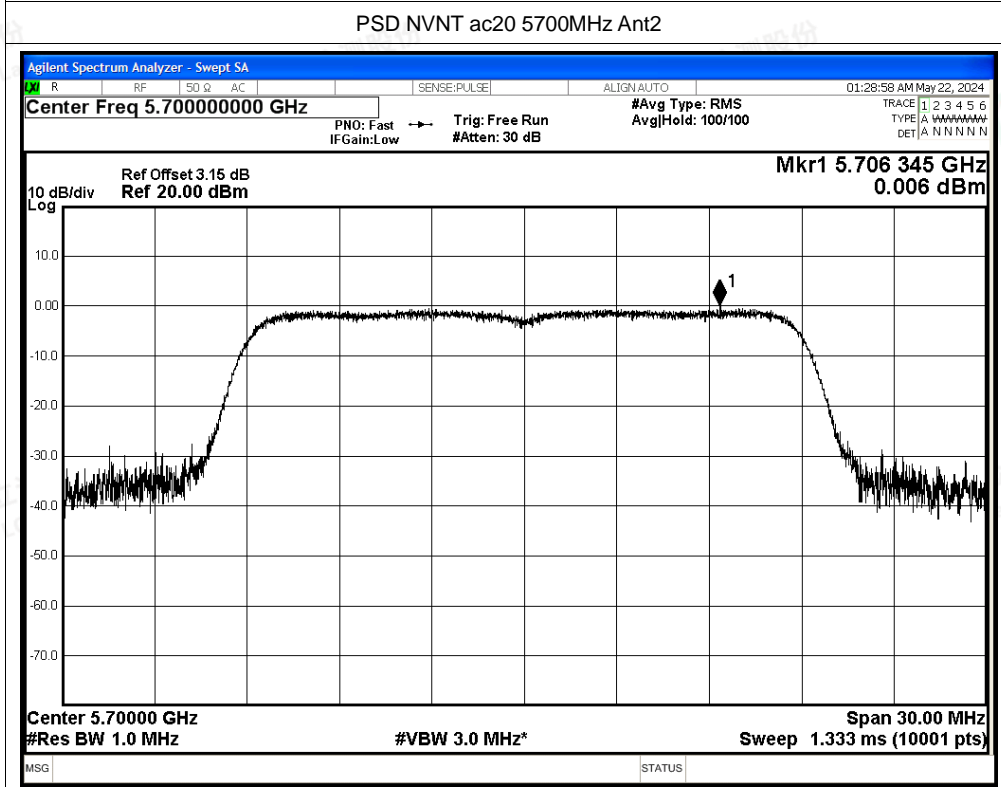
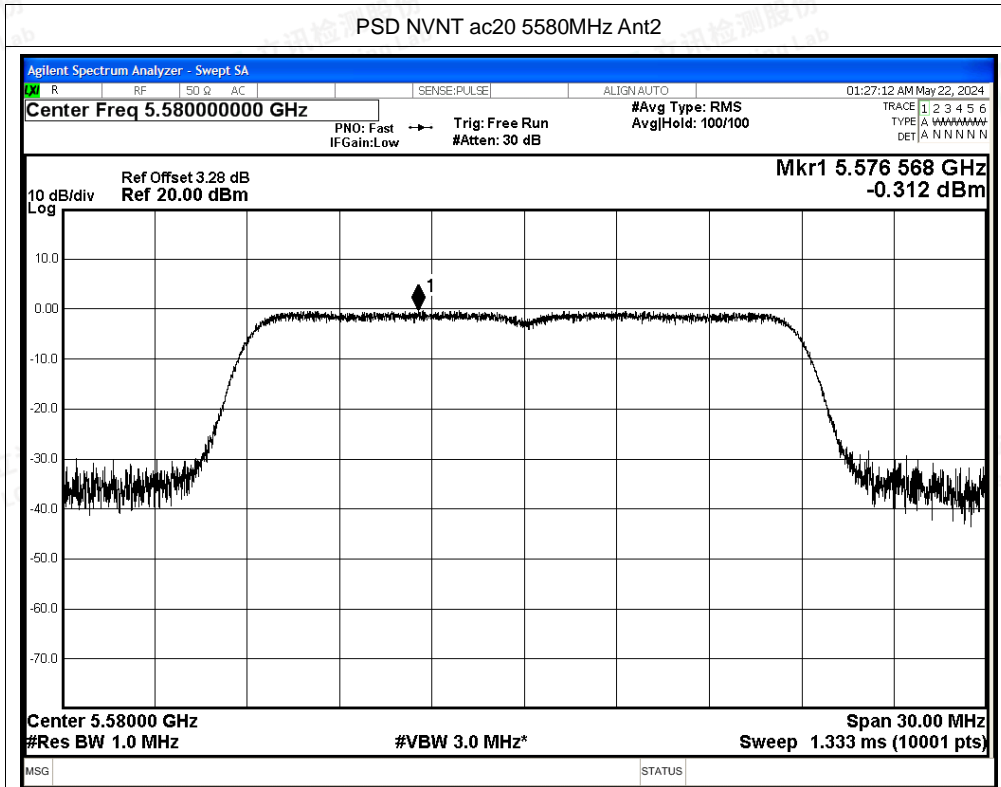


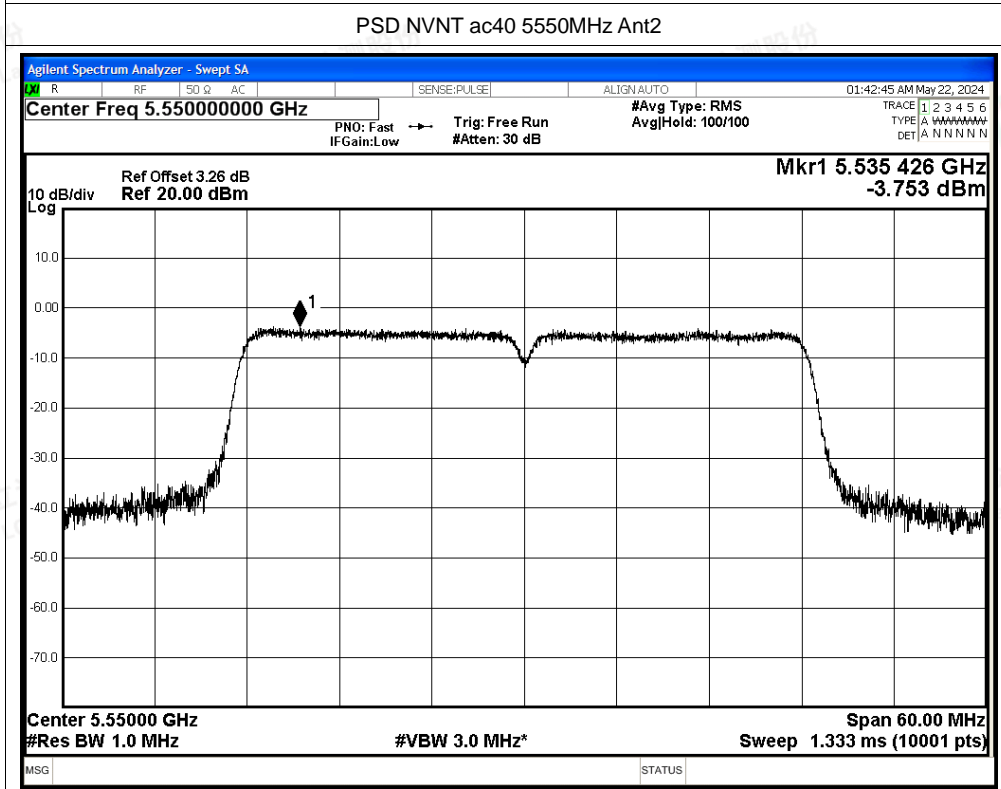
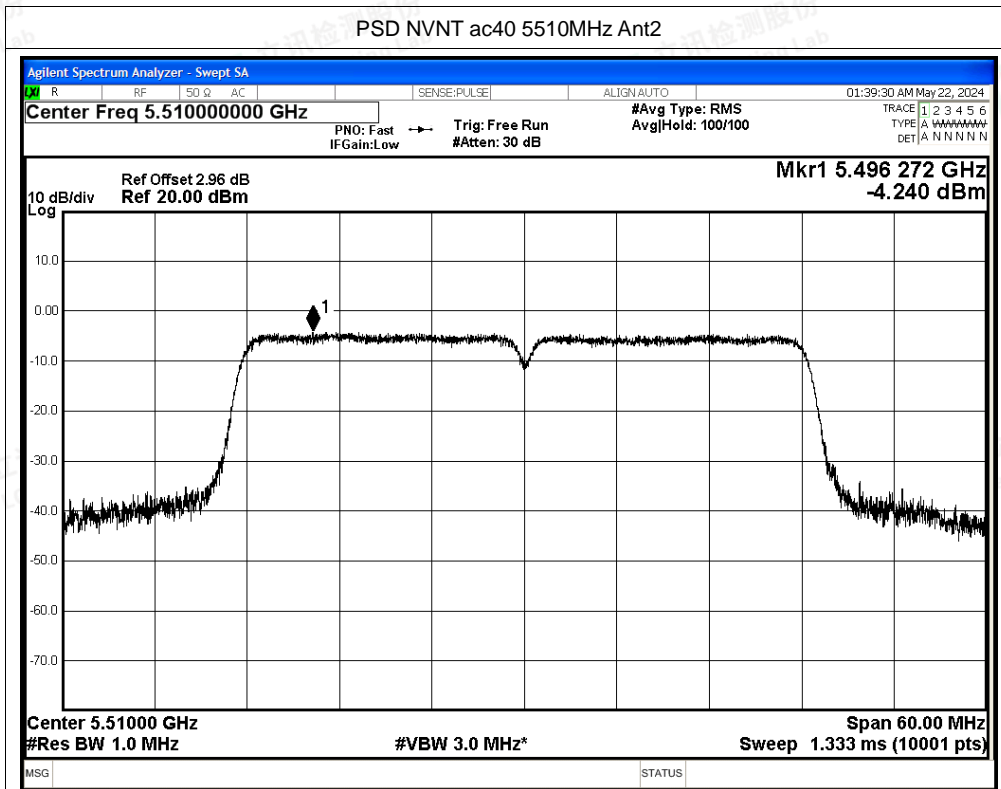


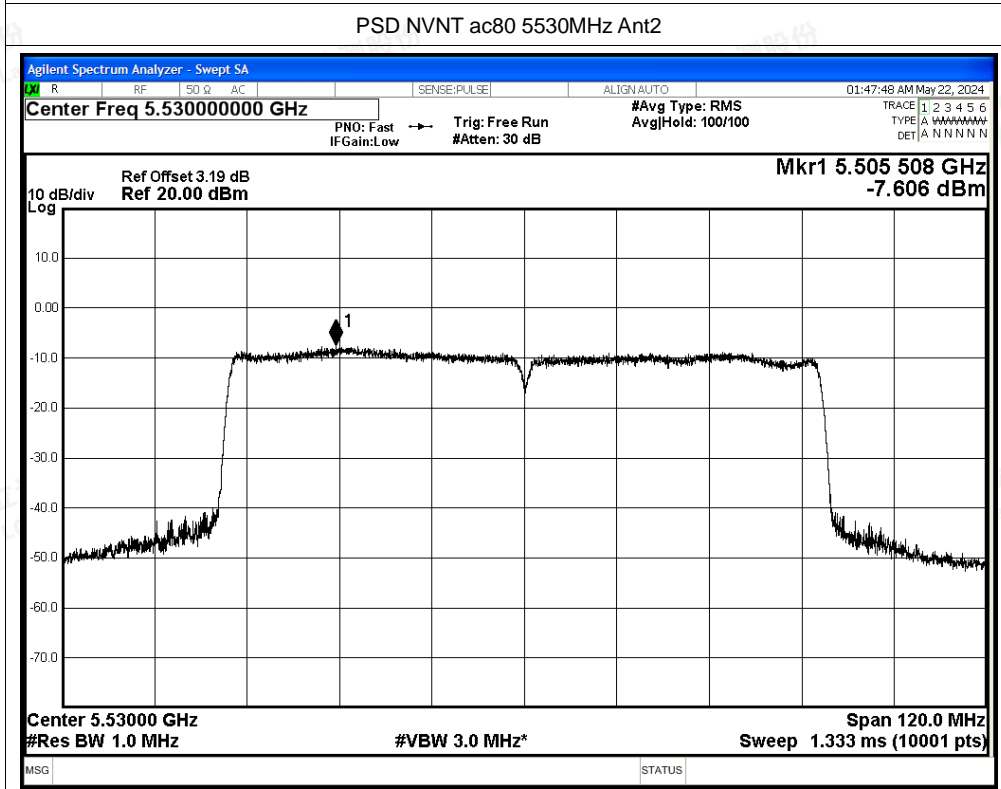
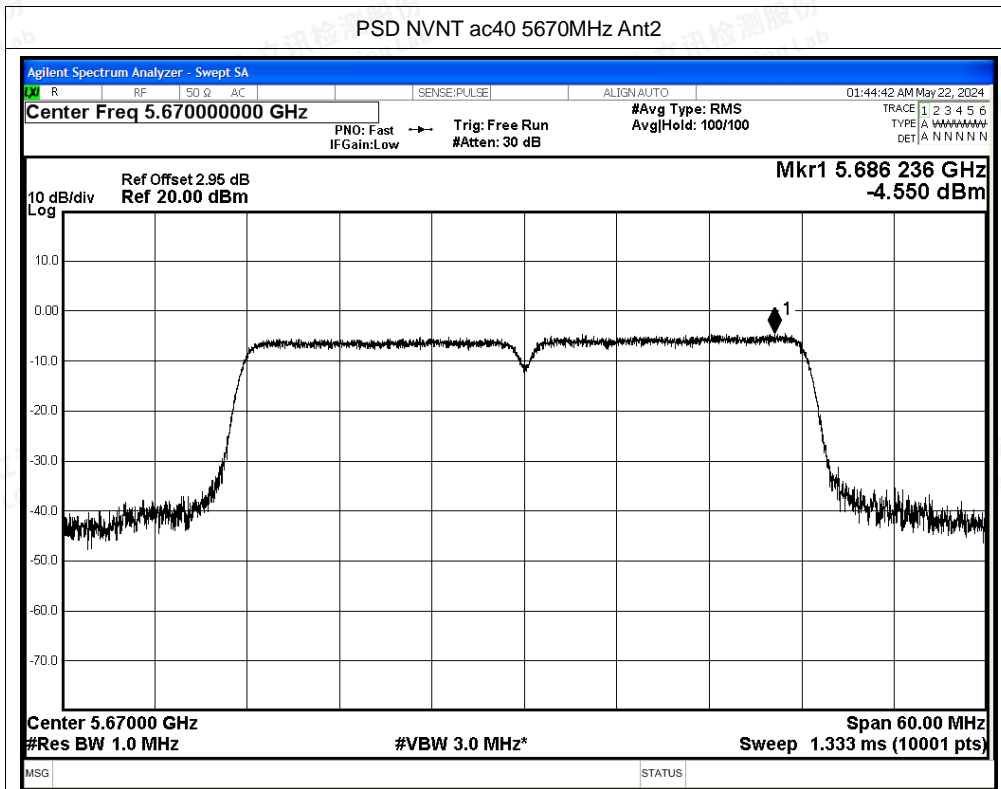


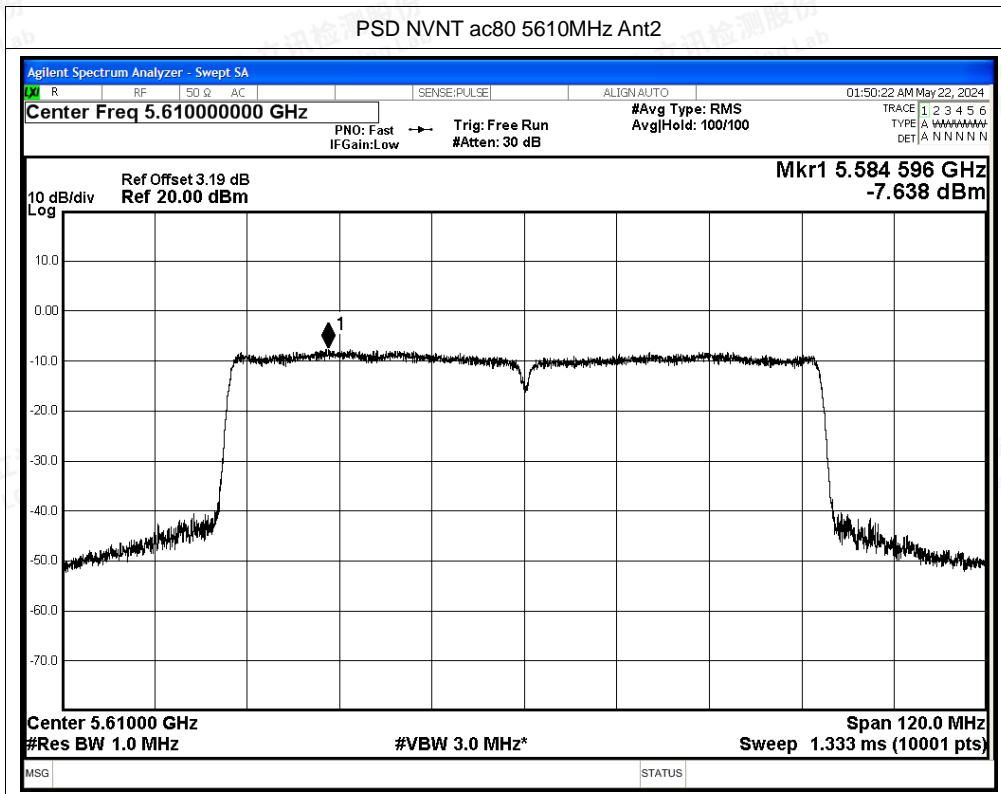














F.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	5460	-49.4	2	-	47.83	Peak	68.2	Pass
NVNT	a	5500	5460	-57.43	2	0.24	40.04	Average	54	Pass
NVNT	a	5500	5467.8	-43.76	2	-	53.47	Peak	68.2	Pass
NVNT	a	5500	5470	-55.77	2	0.24	41.7	Average	54	Pass
NVNT	a	5500	5470	-46.52	2	-	50.71	Peak	68.2	Pass
NVNT	a	5700	5725	-38.74	2	-	58.49	Peak	68.2	Pass
NVNT	a	5700	5725	-52.31	2	0.24	45.16	Average	54	Pass
NVNT	a	5700	5726.6	-36.39	2	-	60.84	Peak	68.2	Pass
NVNT	a	5700	5735	-49.81	2	-	47.42	Peak	68.2	Pass
NVNT	a	5700	5735	-57	2	0.24	40.47	Average	54	Pass
NVNT	n20mimo	5500	5460	-49.69	2.06	-	47.6	Peak	68.2	Pass
NVNT	n20mimo	5500	5460	-57.08	2.06	0.28	40.49	Average	54	Pass
NVNT	n20mimo	5500	5470	-41.74	2.06	-	55.55	Peak	68.2	Pass
NVNT	n20mimo	5500	5470	-54.3	2.06	0.28	43.27	Average	54	Pass
NVNT	n20mimo	5700	5725	-40.15	2.06	-	57.14	Peak	68.2	Pass
NVNT	n20mimo	5700	5725	-50.93	2.06	0.28	46.64	Average	54	Pass
NVNT	n20mimo	5700	5725.4	-34.99	2.06	-	62.3	Peak	68.2	Pass
NVNT	n20mimo	5700	5735	-49.71	2.06	-	47.58	Peak	68.2	Pass
NVNT	n20mimo	5700	5735	-57.83	2.06	0.28	39.74	Average	54	Pass
NVNT	n40mimo	5510	5460	-49.25	2.06	-	48.04	Peak	68.2	Pass
NVNT	n40mimo	5510	5460	-57.64	2.06	0.33	39.98	Average	54	Pass
NVNT	n40mimo	5510	5469.2	-40.49	2.06	-	56.8	Peak	68.2	Pass
NVNT	n40mimo	5510	5468.2	-55.05	2.06	0.33	42.57	Average	54	Pass
NVNT	n40mimo	5510	5470	-42.35	2.06	-	54.94	Peak	68.2	Pass
NVNT	n40mimo	5510	5470	-55.13	2.06	0.33	42.49	Average	54	Pass
NVNT	n40mimo	5670	5725	-50.43	2.06	-	46.86	Peak	68.2	Pass
NVNT	n40mimo	5670	5725	-58.24	2.06	0.33	39.38	Average	54	Pass
NVNT	n40mimo	5670	5732.6	-48.5	2.06	-	48.79	Peak	68.2	Pass
NVNT	n40mimo	5670	5726	-57.72	2.06	0.33	39.9	Average	54	Pass
NVNT	n40mimo	5670	5735	-50.03	2.06	-	47.26	Peak	68.2	Pass
NVNT	n40mimo	5670	5735	-58.55	2.06	0.33	39.07	Average	54	Pass
NVNT	ac20mimo	5500	5460	-50.06	2.06	-	47.23	Peak	68.2	Pass
NVNT	ac20mimo	5500	5460	-58.41	2.06	0.28	39.16	Average	54	Pass
NVNT	ac20mimo	5500	5468.8	-45.37	2.06	-	51.92	Peak	68.2	Pass
NVNT	ac20mimo	5500	5470	-56.32	2.06	0.28	41.25	Average	54	Pass
NVNT	ac20mimo	5500	5470	-45.75	2.06	-	51.54	Peak	68.2	Pass





NVNT	ac20mimo	5700	5725	-38.85	2.06	-	58.44	Peak	68.2	Pass
NVNT	ac20mimo	5700	5725	-53.42	2.06	0.28	44.15	Average	54	Pass
NVNT	ac20mimo	5700	5725.4	-53.17	2.06	0.28	44.4	Average	54	Pass
NVNT	ac20mimo	5700	5735	-48.84	2.06	-	48.45	Peak	68.2	Pass
NVNT	ac20mimo	5700	5735	-57.87	2.06	0.28	39.7	Average	54	Pass
NVNT	ac40mimo	5510	5460	-49.92	2.06	-	47.37	Peak	68.2	Pass
NVNT	ac40mimo	5510	5460	-57.52	2.06	0.33	40.1	Average	54	Pass
NVNT	ac40mimo	5510	5467.8	-40.82	2.06	-	56.47	Peak	68.2	Pass
NVNT	ac40mimo	5510	5470	-54.16	2.06	0.33	43.46	Average	54	Pass
NVNT	ac40mimo	5510	5470	-44.83	2.06	-	52.46	Peak	68.2	Pass
NVNT	ac40mimo	5670	5725	-50.95	2.06	-	46.34	Peak	68.2	Pass
NVNT	ac40mimo	5670	5725	-58.16	2.06	0.33	39.46	Average	54	Pass
NVNT	ac40mimo	5670	5733.4	-47.51	2.06	-	49.78	Peak	68.2	Pass
NVNT	ac40mimo	5670	5727.2	-57.63	2.06	0.33	39.99	Average	54	Pass
NVNT	ac40mimo	5670	5735	-50.61	2.06	-	46.68	Peak	68.2	Pass
NVNT	ac40mimo	5670	5735	-58.35	2.06	0.33	39.27	Average	54	Pass
NVNT	ac80mimo	5530	5460	-49.49	2.06	-	47.8	Peak	68.2	Pass
NVNT	ac80mimo	5530	5460	-57.02	2.06	0.52	40.79	Average	54	Pass
NVNT	ac80mimo	5530	5468.6	-44.93	2.06	-	52.36	Peak	68.2	Pass
NVNT	ac80mimo	5530	5469.8	-55.23	2.06	0.52	42.58	Average	54	Pass
NVNT	ac80mimo	5530	5470	-46.53	2.06	-	50.76	Peak	68.2	Pass
NVNT	ac80mimo	5530	5470	-55.85	2.06	0.52	41.96	Average	54	Pass
NVNT	ac80mimo	5610	5725	-51.58	2.06	-	45.71	Peak	68.2	Pass
NVNT	ac80mimo	5610	5725	-57.86	2.06	0.53	39.96	Average	54	Pass
NVNT	ac80mimo	5610	5726.185	-48.46	2.06	-	48.83	Peak	68.2	Pass
NVNT	ac80mimo	5610	5725.16	-57.71	2.06	0.53	40.11	Average	54	Pass
NVNT	ac80mimo	5610	5735	-50.89	2.06	-	46.4	Peak	68.2	Pass
NVNT	ac80mimo	5610	5735	-58.51	2.06	0.53	39.31	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna1 data.

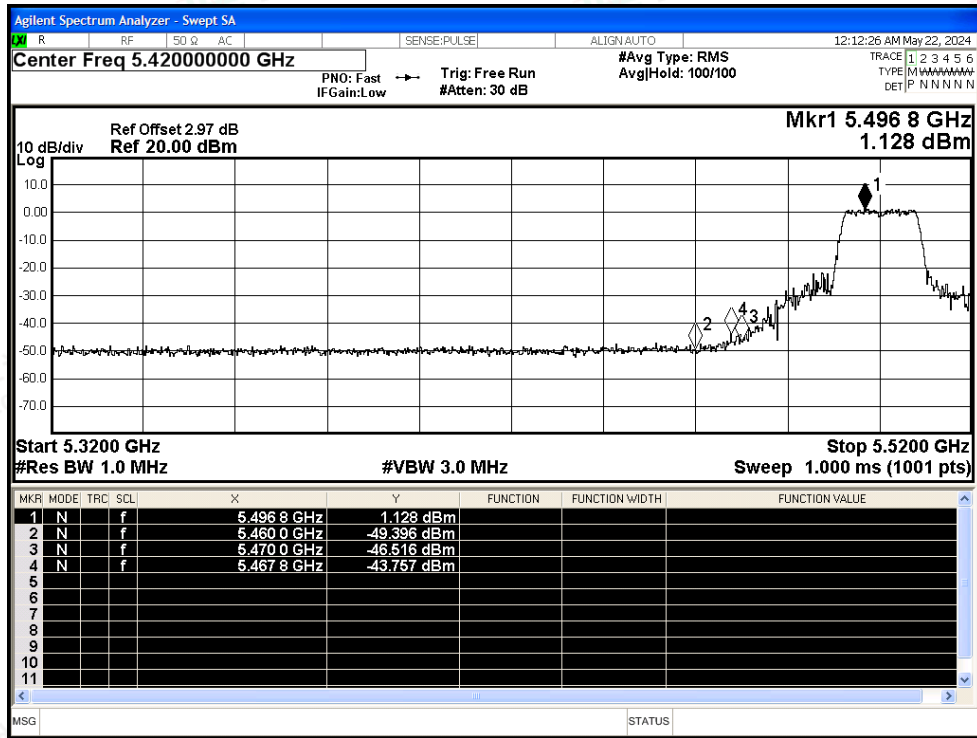


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 Scan code to check authenticity



Test Graphs

Restrict Band NVNT a 5500MHz Peak



Restrict Band NVNT a 5500MHz Average

