



## Appendix F

### RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: Digital Projector

Test Model: NeoPix 550 Smart

#### Environmental Conditions

Temperature:	26.3° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
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	Ant0	22.856	---	Pass
NVNT	a	5580	Ant0	27.377	---	Pass
NVNT	a	5700	Ant0	26.278	---	Pass
NVNT	n20	5500	Ant0	28.363	---	Pass
NVNT	n20	5580	Ant0	27.898	---	Pass
NVNT	n20	5700	Ant0	27.791	---	Pass
NVNT	n40	5510	Ant0	43.333	---	Pass
NVNT	n40	5550	Ant0	41.219	---	Pass
NVNT	n40	5670	Ant0	39.62	---	Pass
NVNT	ac20	5500	Ant0	28.903	---	Pass
NVNT	ac20	5580	Ant0	26.9	---	Pass
NVNT	ac20	5700	Ant0	29.3	---	Pass
NVNT	ac40	5510	Ant0	42.028	---	Pass
NVNT	ac40	5550	Ant0	41.294	---	Pass
NVNT	ac40	5670	Ant0	43.411	---	Pass
NVNT	ax20	5500	Ant0	27.158	---	Pass
NVNT	ax20	5580	Ant0	27.423	---	Pass
NVNT	ax20	5700	Ant0	27.267	---	Pass
NVNT	ax40	5510	Ant0	42.167	---	Pass
NVNT	ax40	5550	Ant0	47.336	---	Pass
NVNT	ax40	5670	Ant0	41.802	---	Pass

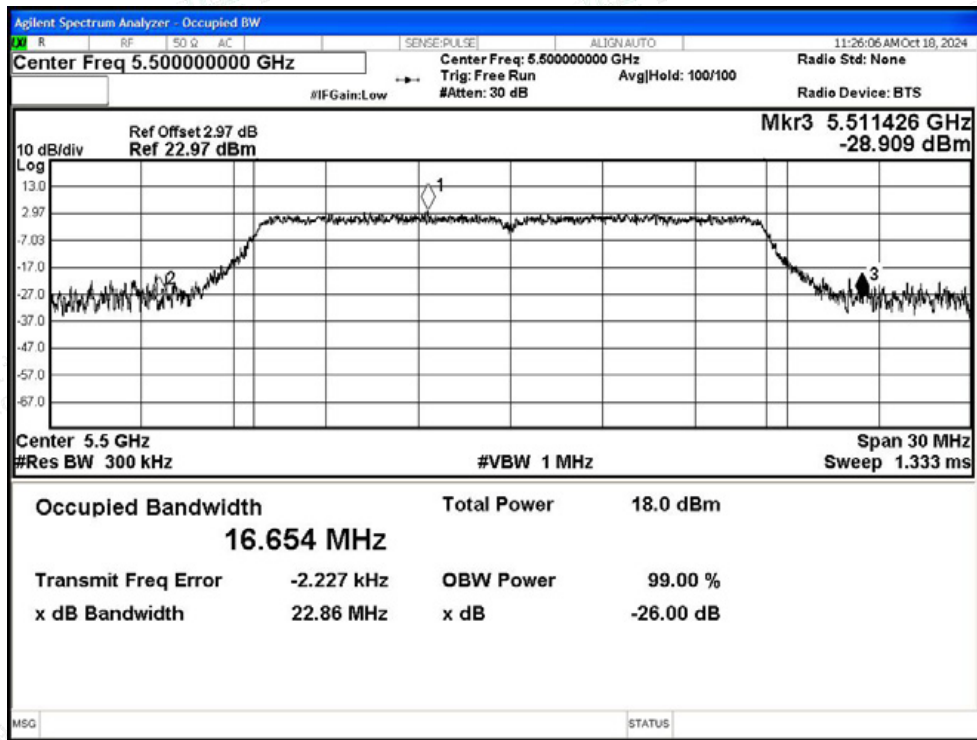


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 Scan code to check authenticity

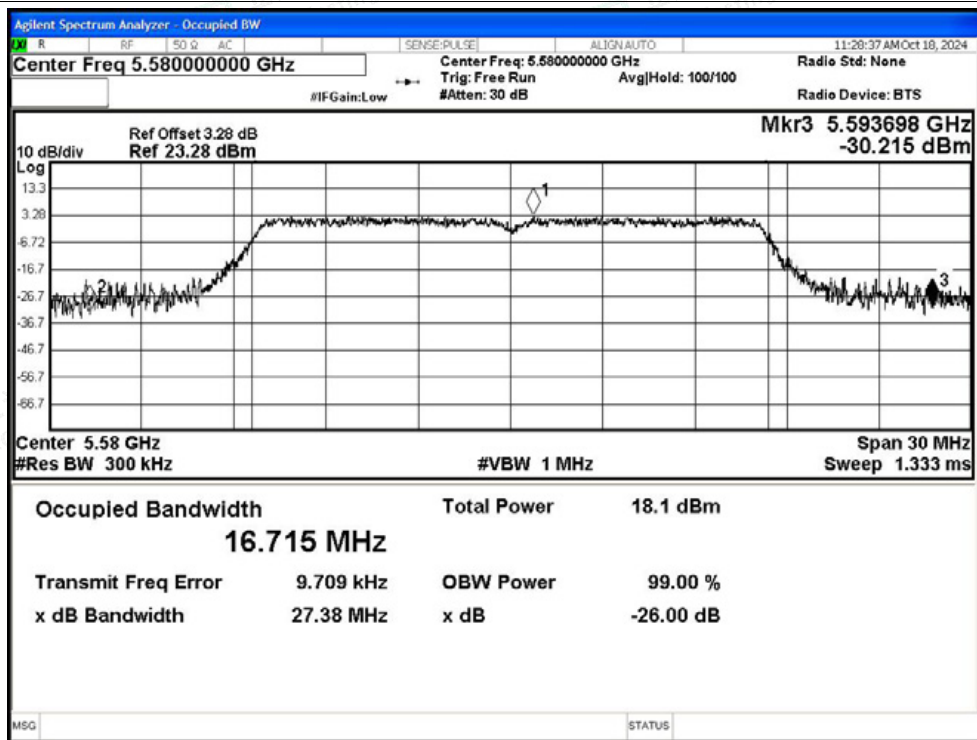


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant0

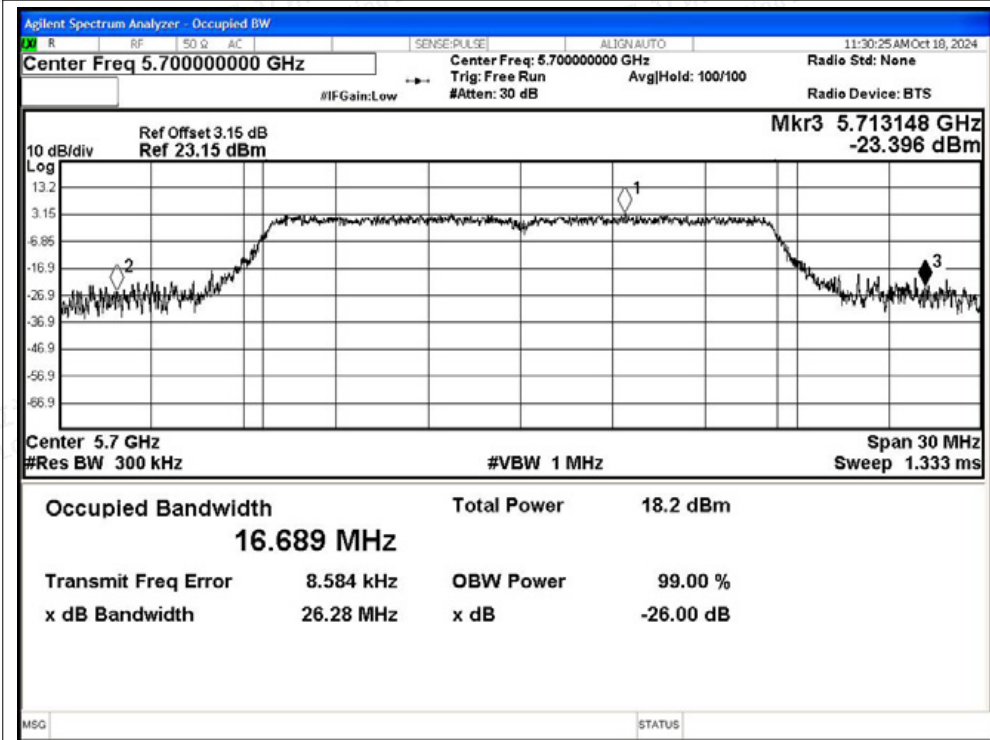


-26dB Bandwidth NVNT a 5580MHz Ant0

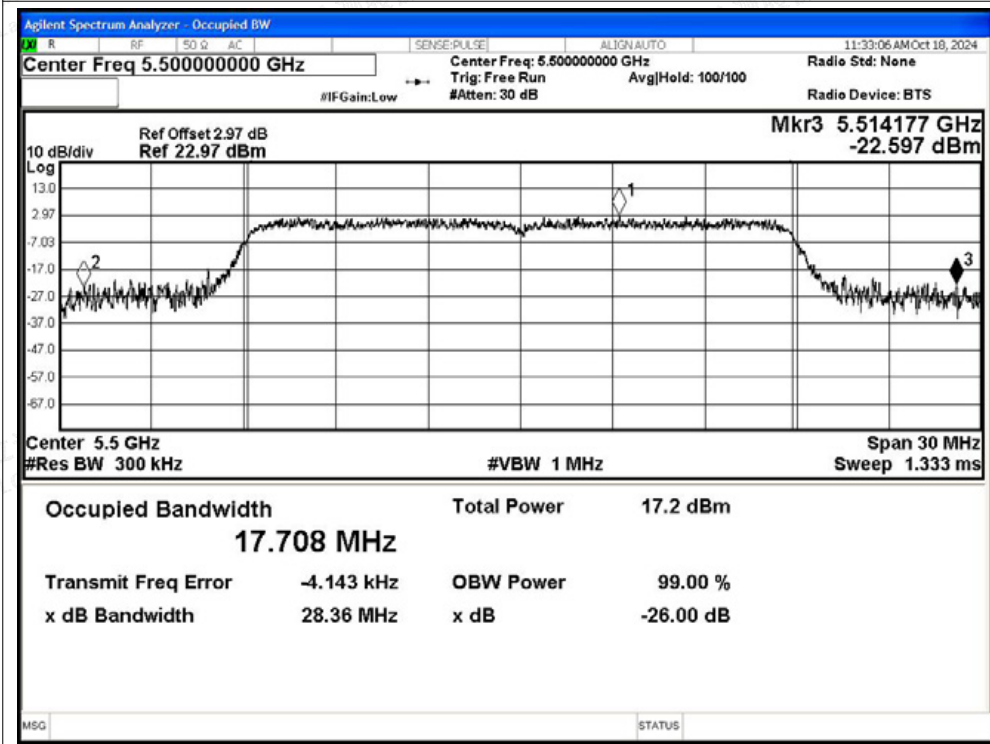




-26dB Bandwidth NVNT a 5700MHz Ant0

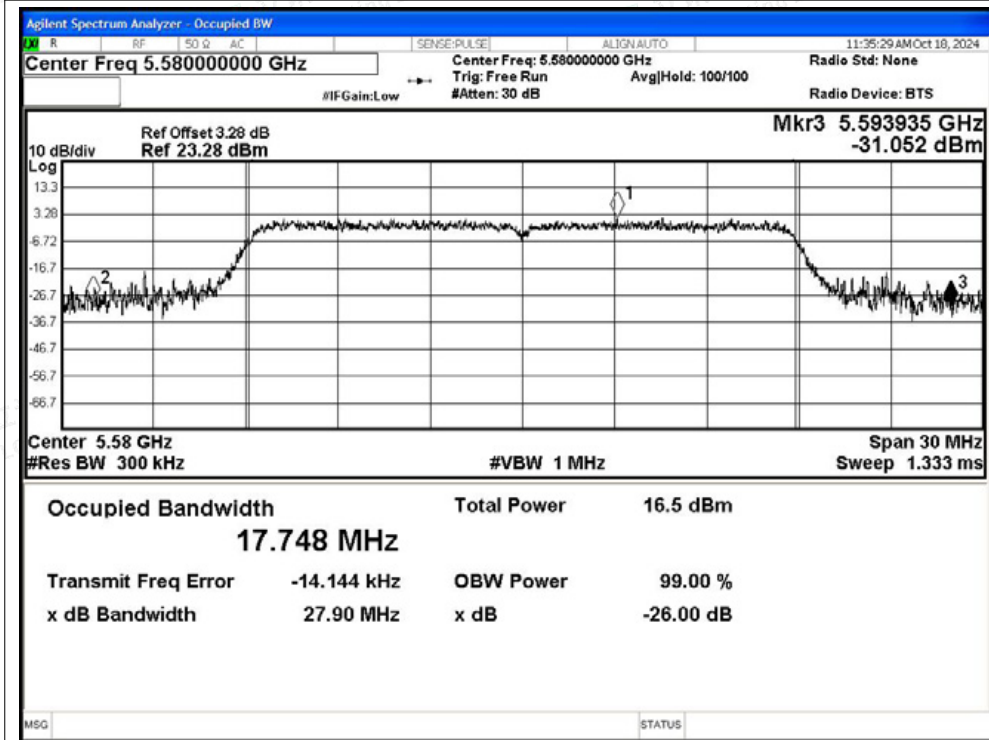


-26dB Bandwidth NVNT n20 5500MHz Ant0

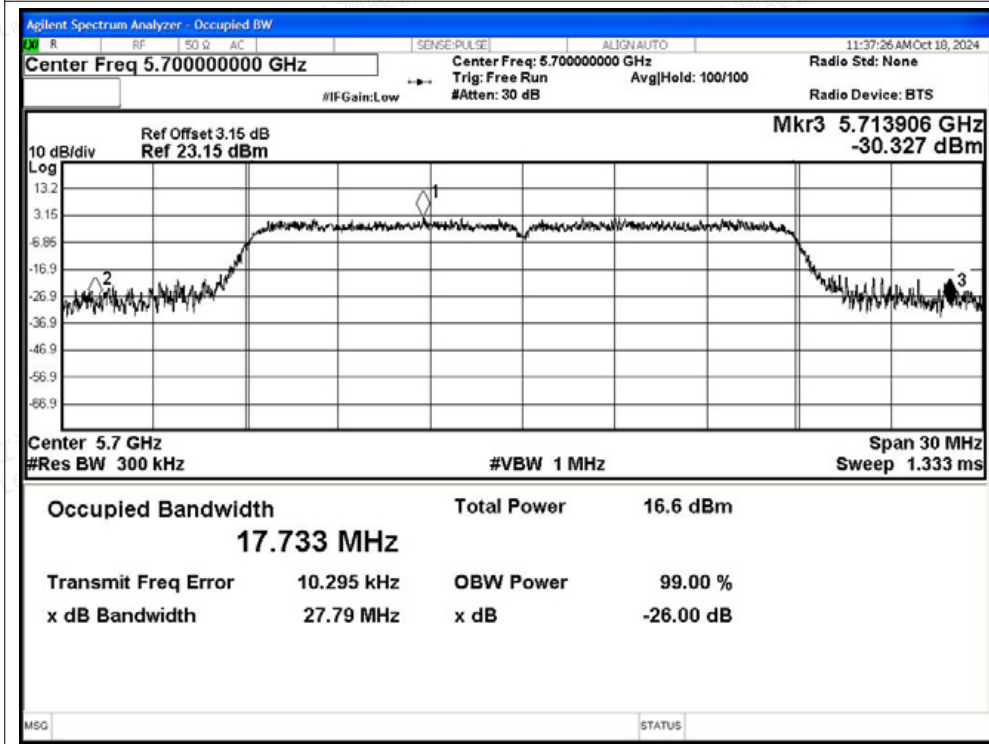




-26dB Bandwidth NVNT n20 5580MHz Ant0

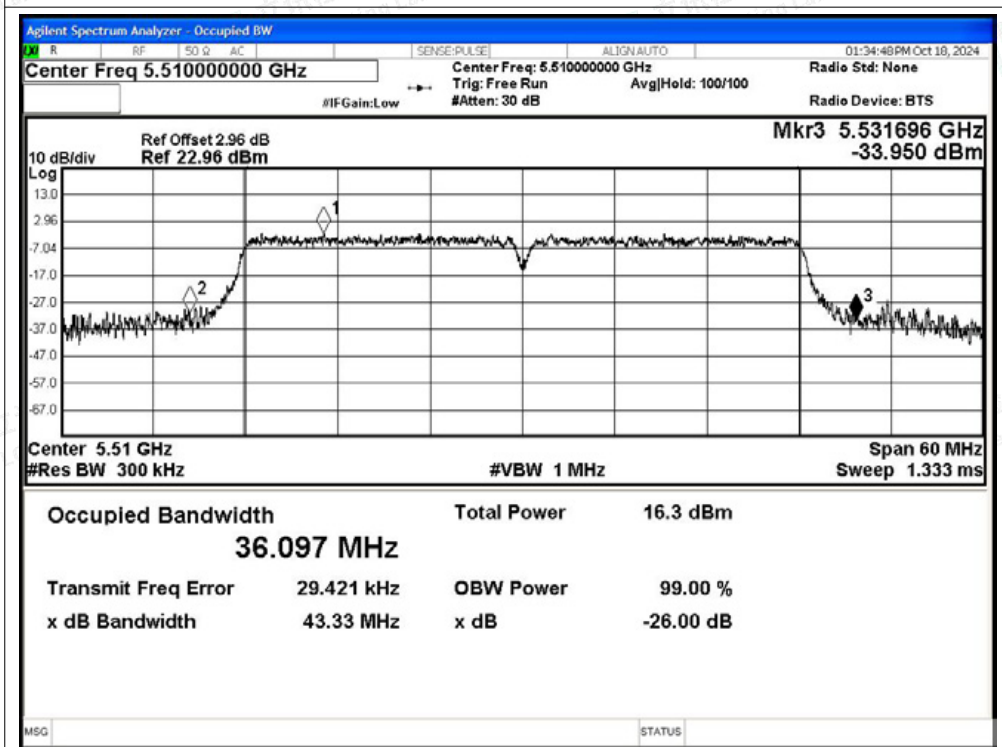


-26dB Bandwidth NVNT n20 5700MHz Ant0

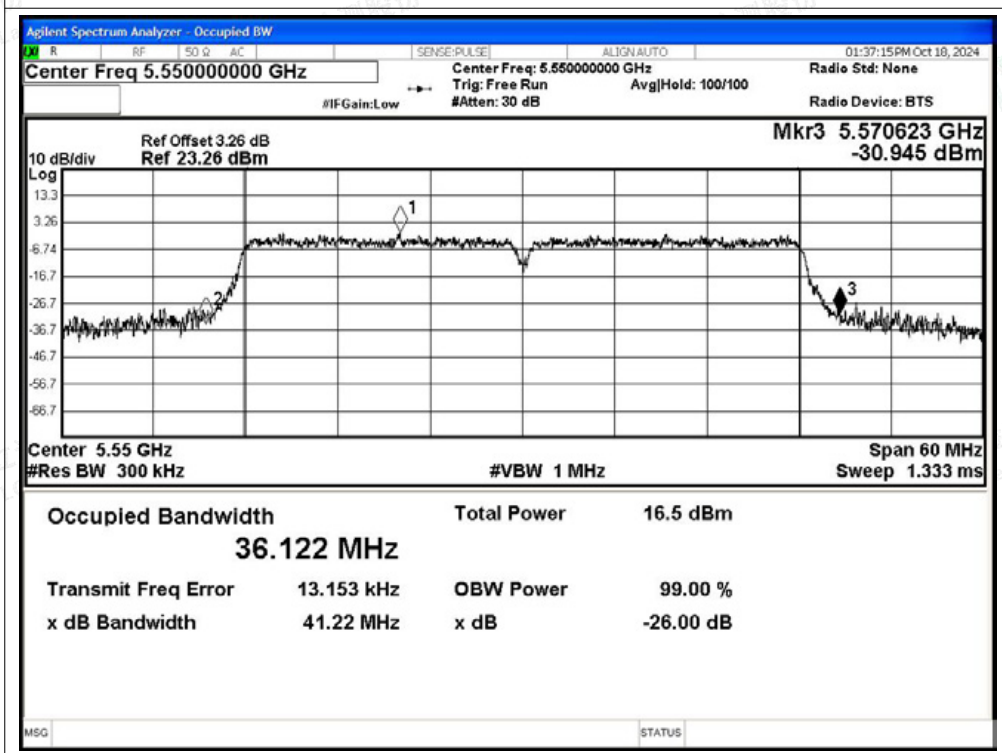




-26dB Bandwidth NVNT n40 5510MHz Ant0

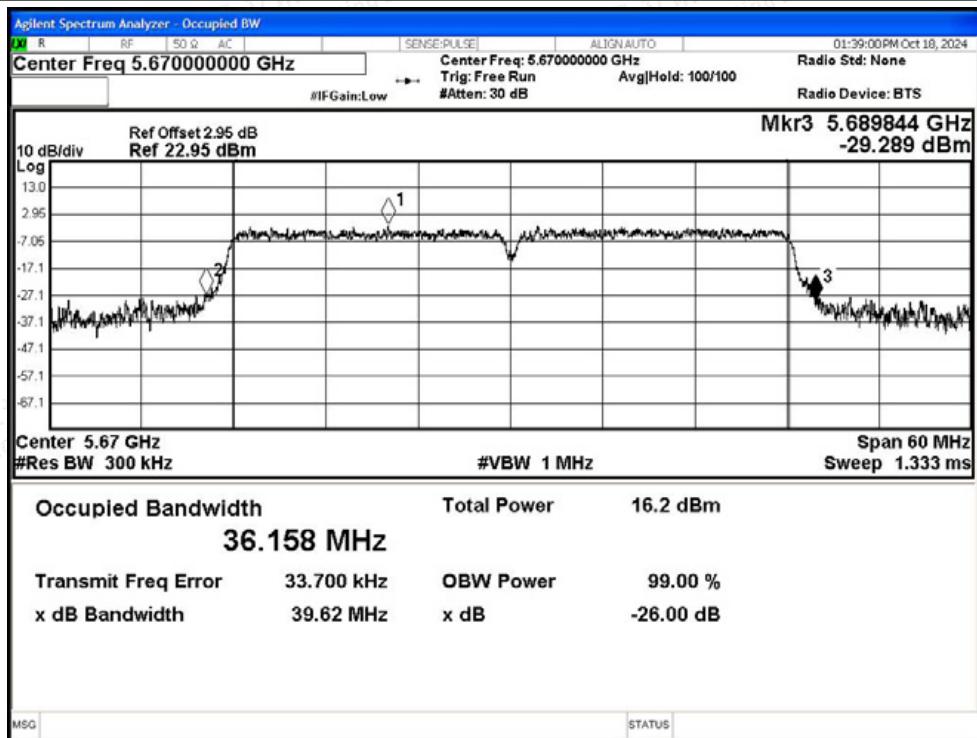


-26dB Bandwidth NVNT n40 5550MHz Ant0

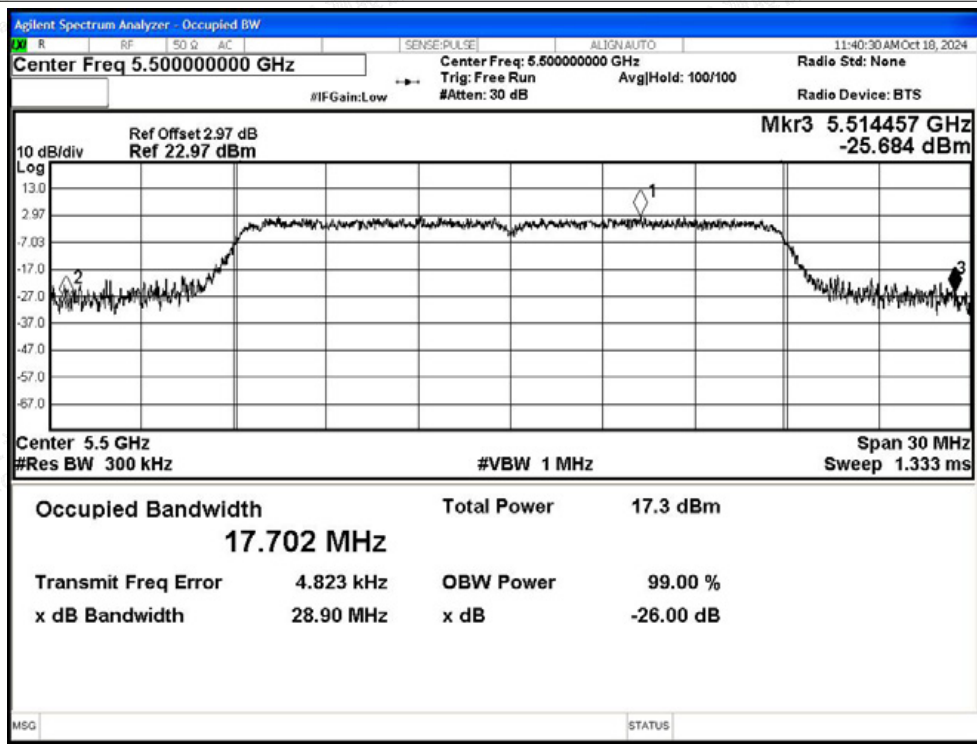




-26dB Bandwidth NVNT n40 5670MHz Ant0

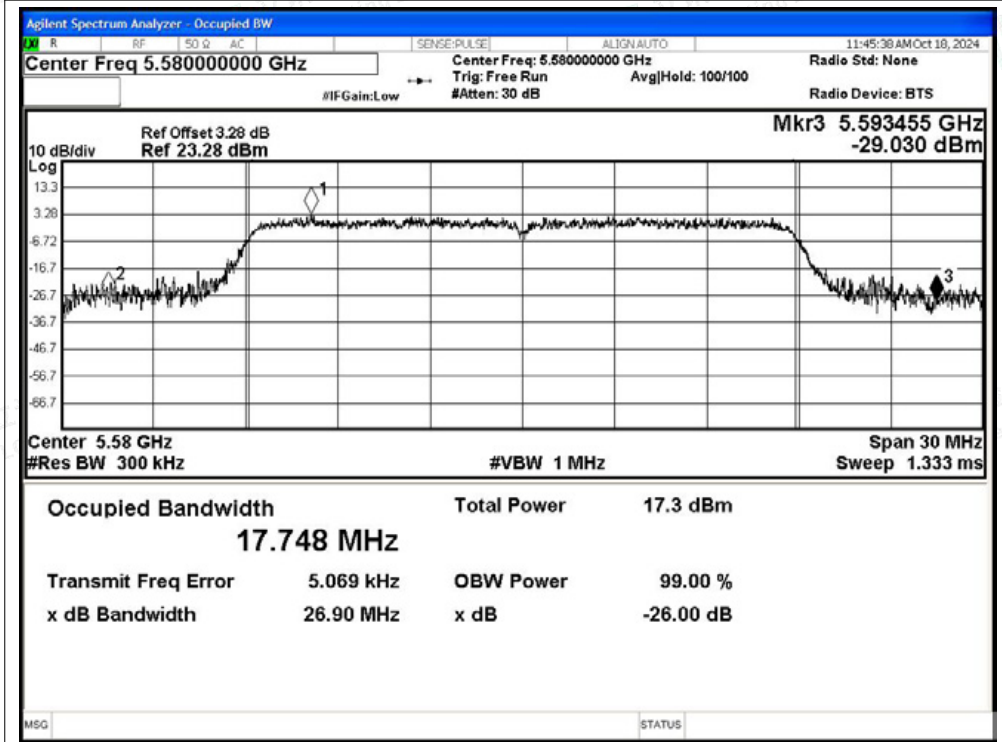


-26dB Bandwidth NVNT ac20 5500MHz Ant0

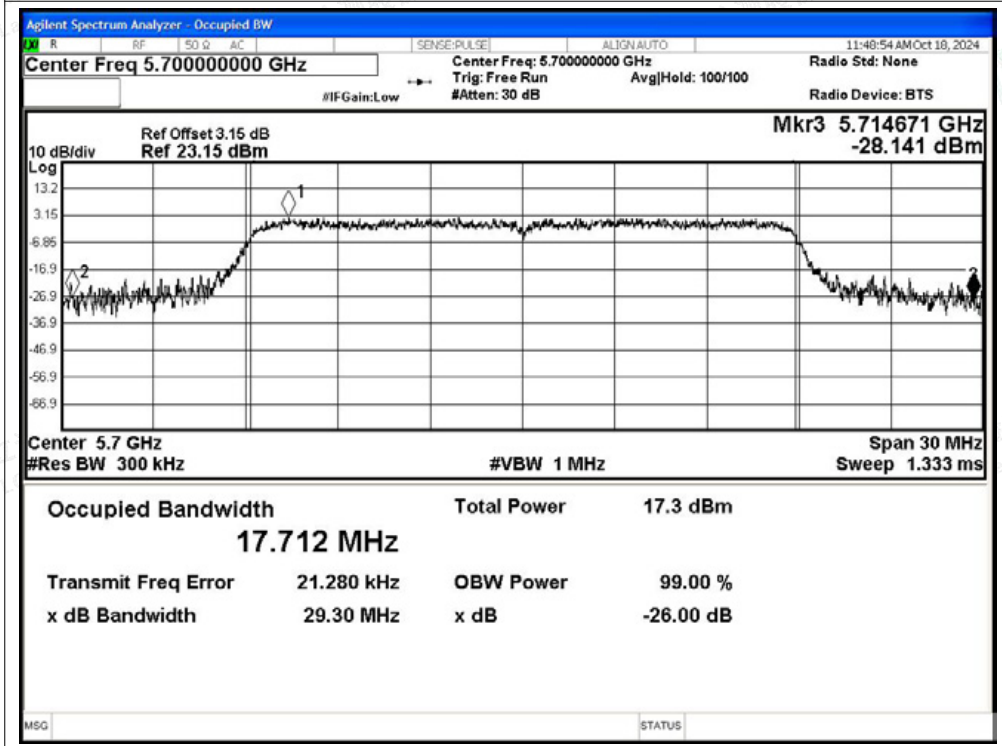




-26dB Bandwidth NVNT ac20 5580MHz Ant0



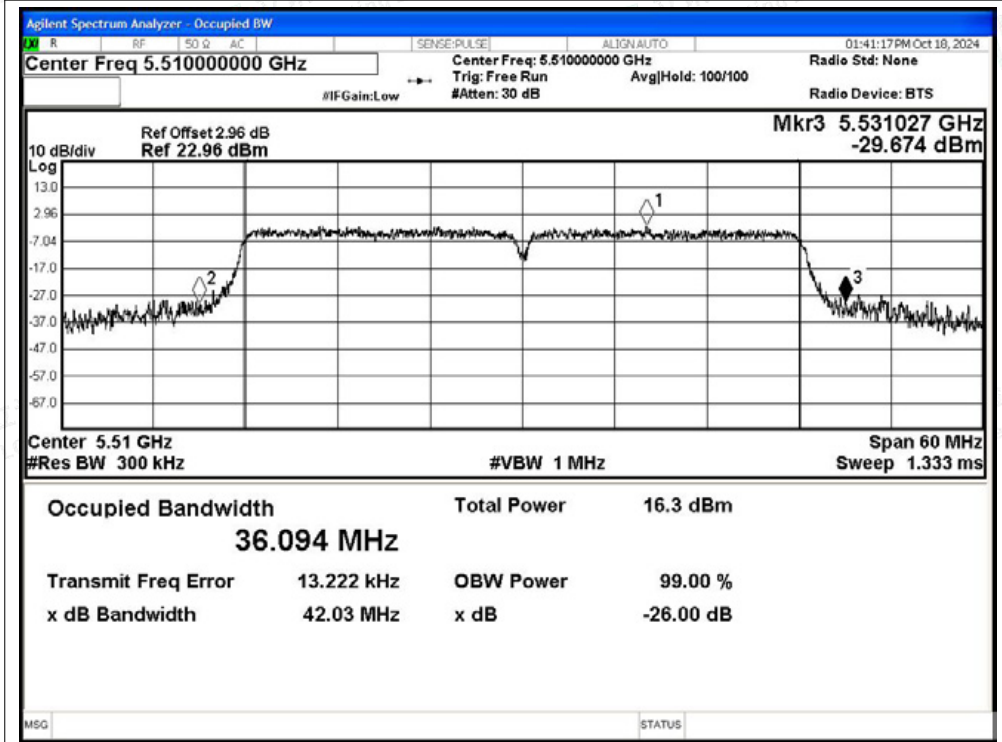
-26dB Bandwidth NVNT ac20 5700MHz Ant0



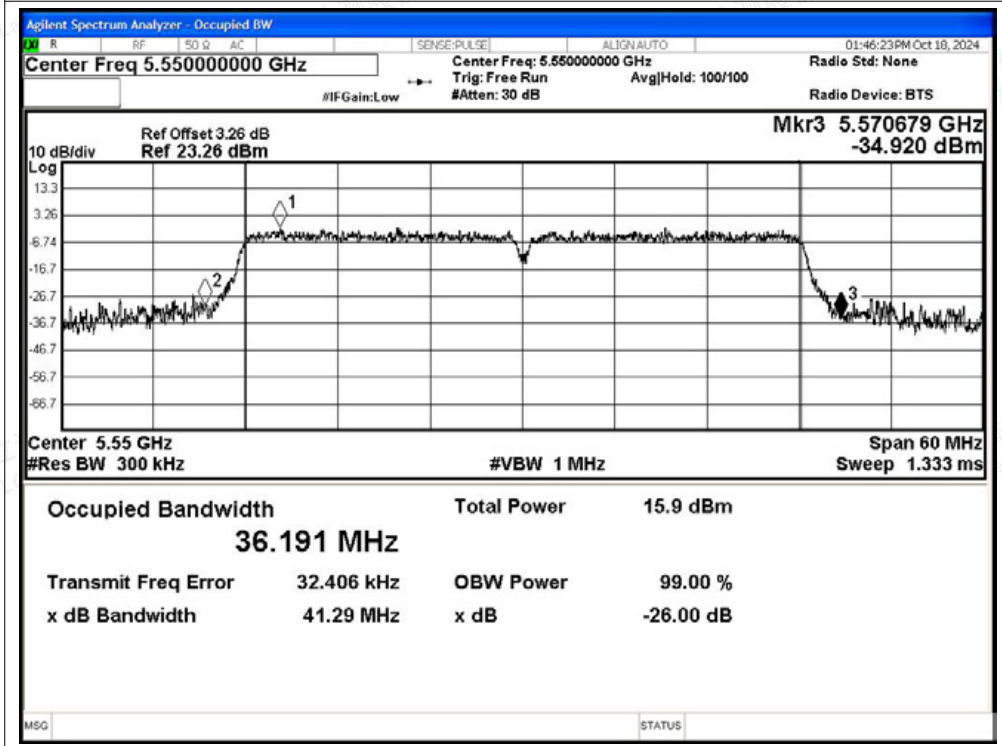




-26dB Bandwidth NVNT ac40 5510MHz Ant0

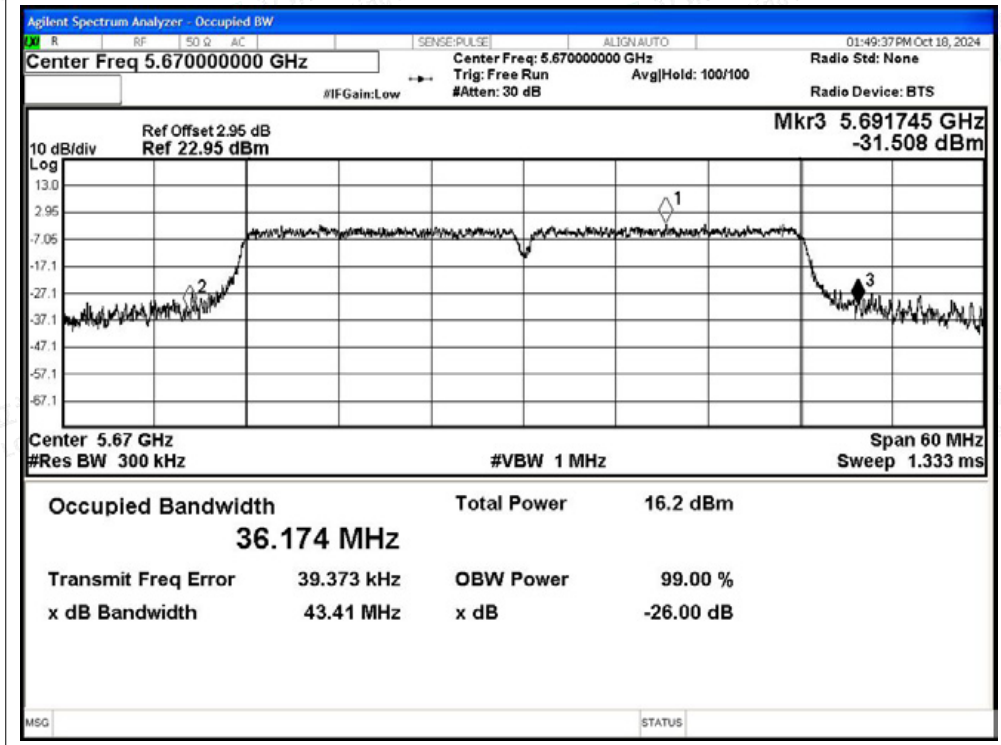


-26dB Bandwidth NVNT ac40 5550MHz Ant0



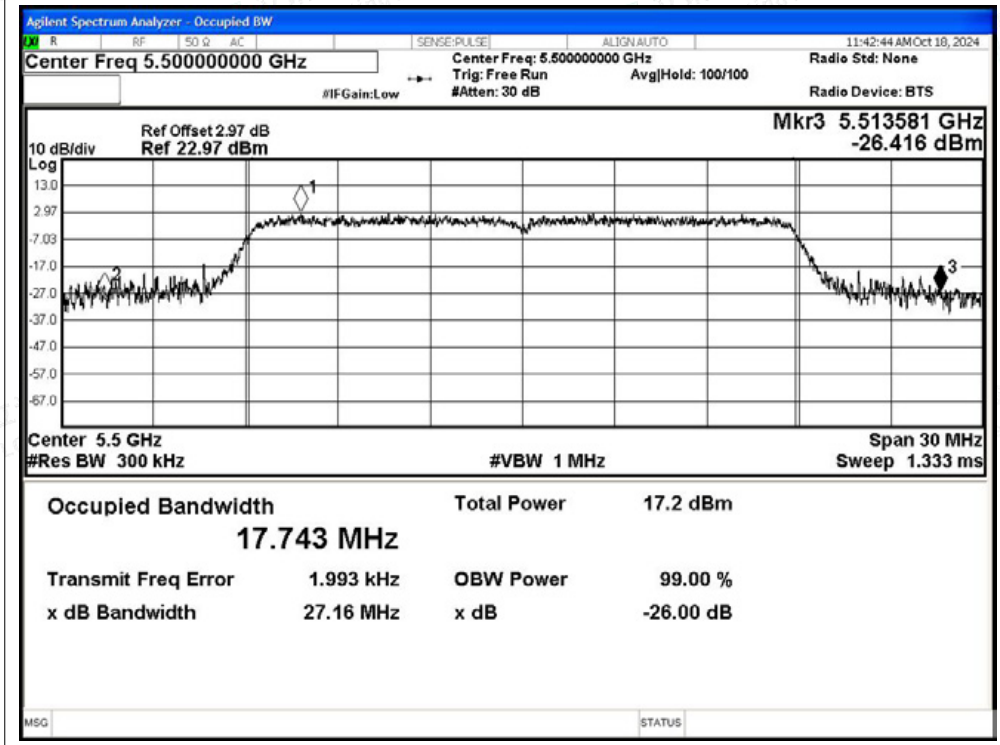


-26dB Bandwidth NVNT ac40 5670MHz Ant0



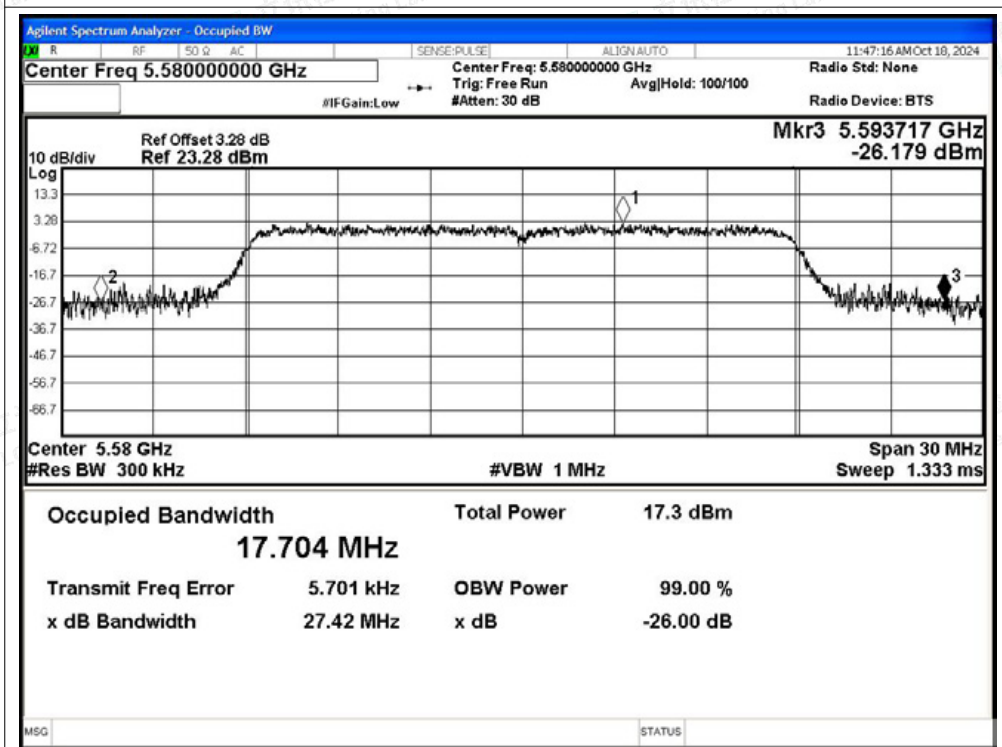


-26dB Bandwidth NVNT ax20 5500MHz Ant0

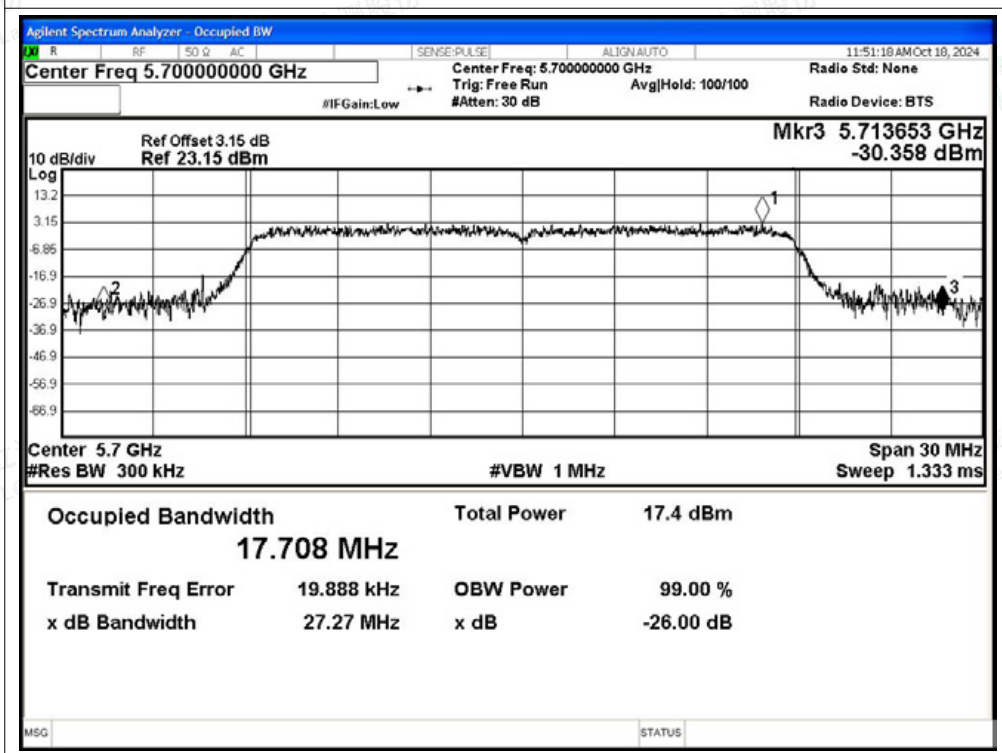




-26dB Bandwidth NVNT ax20 5580MHz Ant0

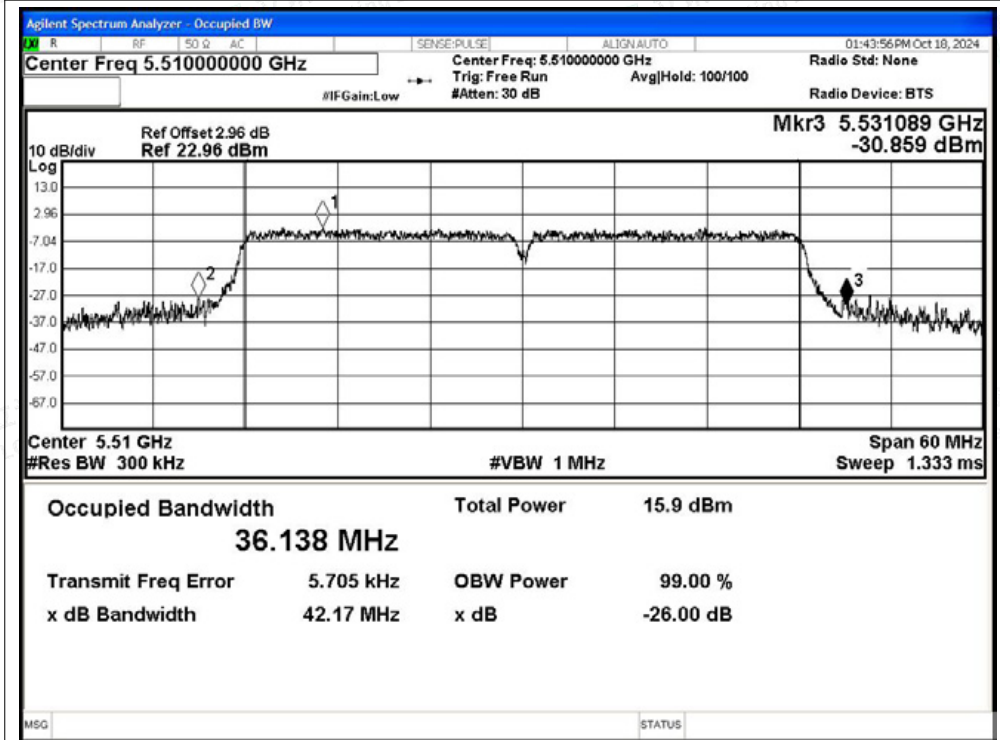


-26dB Bandwidth NVNT ax20 5700MHz Ant0

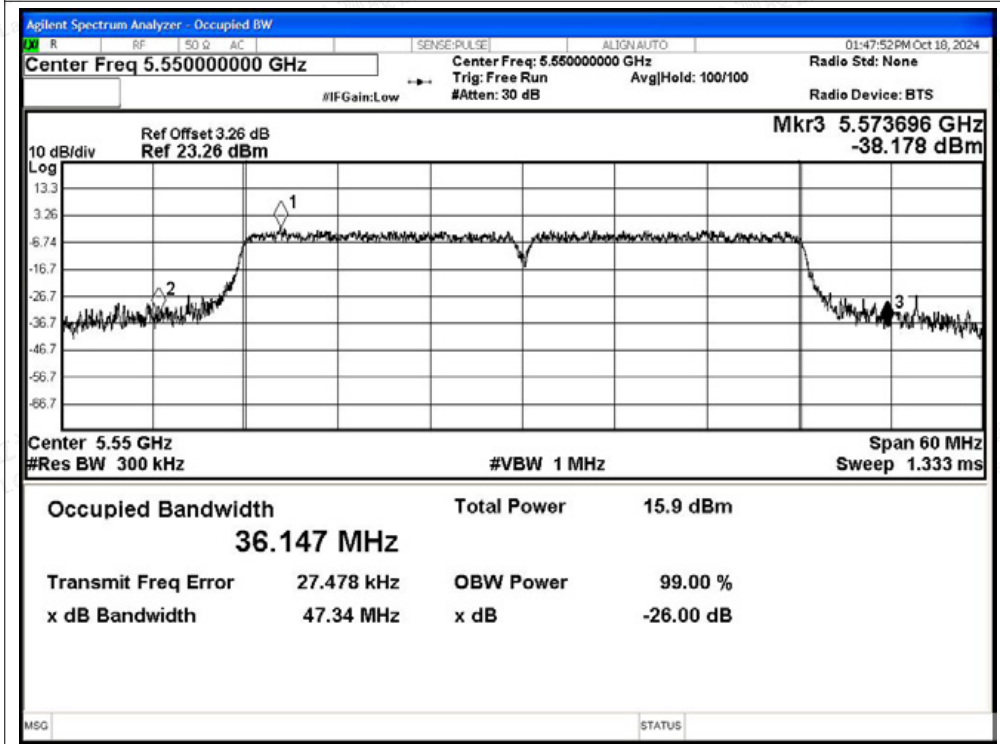




-26dB Bandwidth NVNT ax40 5510MHz Ant0

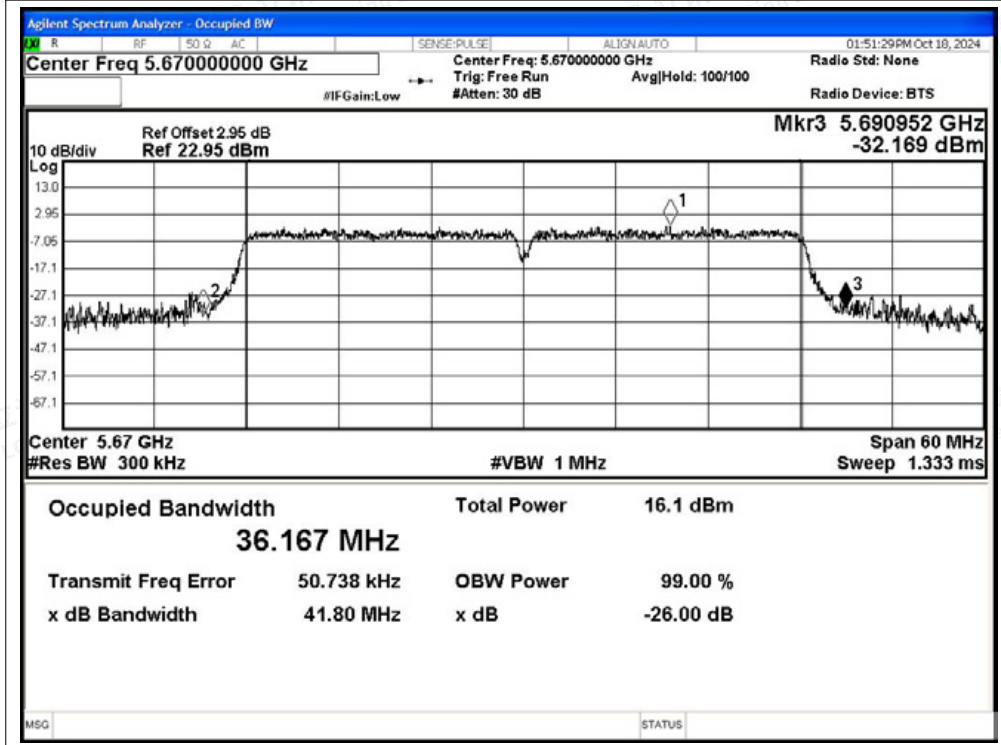


-26dB Bandwidth NVNT ax40 5550MHz Ant0





-26dB Bandwidth NVNT ax40 5670MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	25.732	---	Pass
NVNT	a	5580	Ant1	28.377	---	Pass
NVNT	a	5700	Ant1	28.499	---	Pass
NVNT	n20	5500	Ant1	28.593	---	Pass
NVNT	n20	5580	Ant1	24.806	---	Pass
NVNT	n20	5700	Ant1	29.103	---	Pass
NVNT	n40	5510	Ant1	39.543	---	Pass
NVNT	n40	5550	Ant1	45.468	---	Pass
NVNT	n40	5670	Ant1	40.118	---	Pass
NVNT	ac20	5500	Ant1	25.836	---	Pass
NVNT	ac20	5580	Ant1	27.157	---	Pass
NVNT	ac20	5700	Ant1	27.701	---	Pass
NVNT	ac40	5510	Ant1	40.844	---	Pass
NVNT	ac40	5550	Ant1	41.555	---	Pass
NVNT	ac40	5670	Ant1	39.698	---	Pass
NVNT	ax20	5500	Ant1	28.031	---	Pass
NVNT	ax20	5580	Ant1	28.822	---	Pass
NVNT	ax20	5700	Ant1	28.72	---	Pass
NVNT	ax40	5510	Ant1	44.497	---	Pass
NVNT	ax40	5550	Ant1	40.525	---	Pass
NVNT	ax40	5670	Ant1	46.208	---	Pass

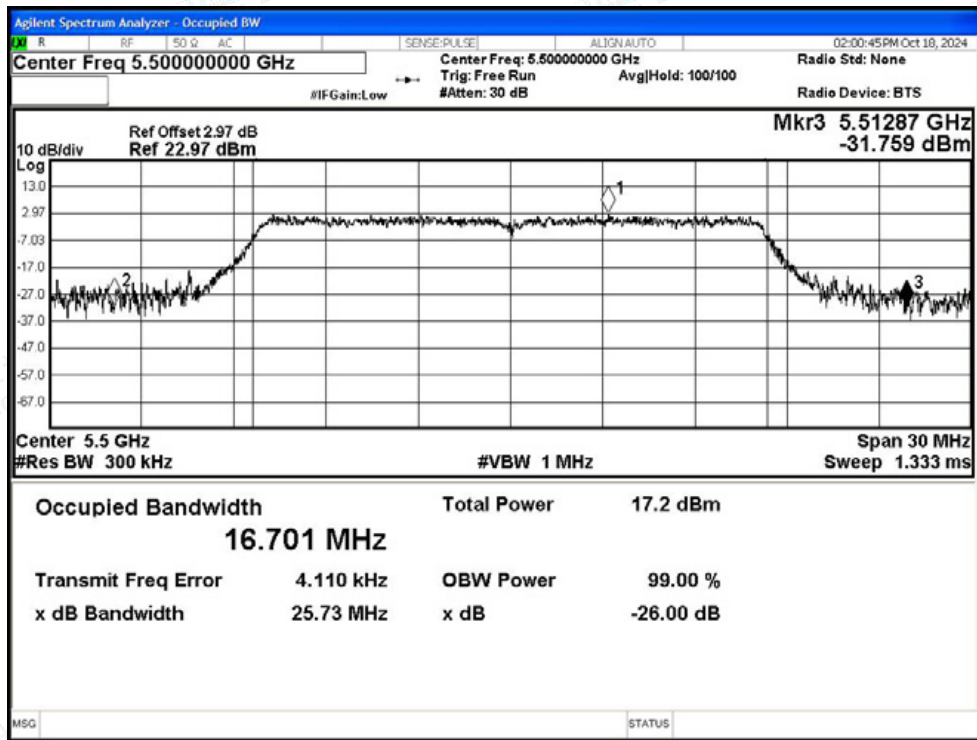


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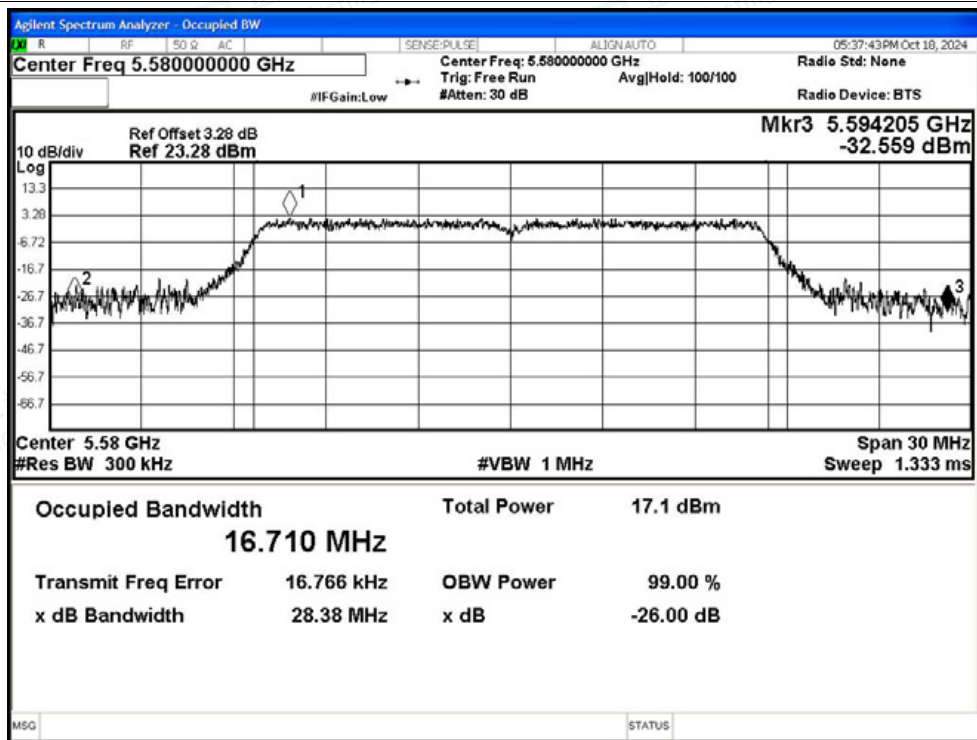


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



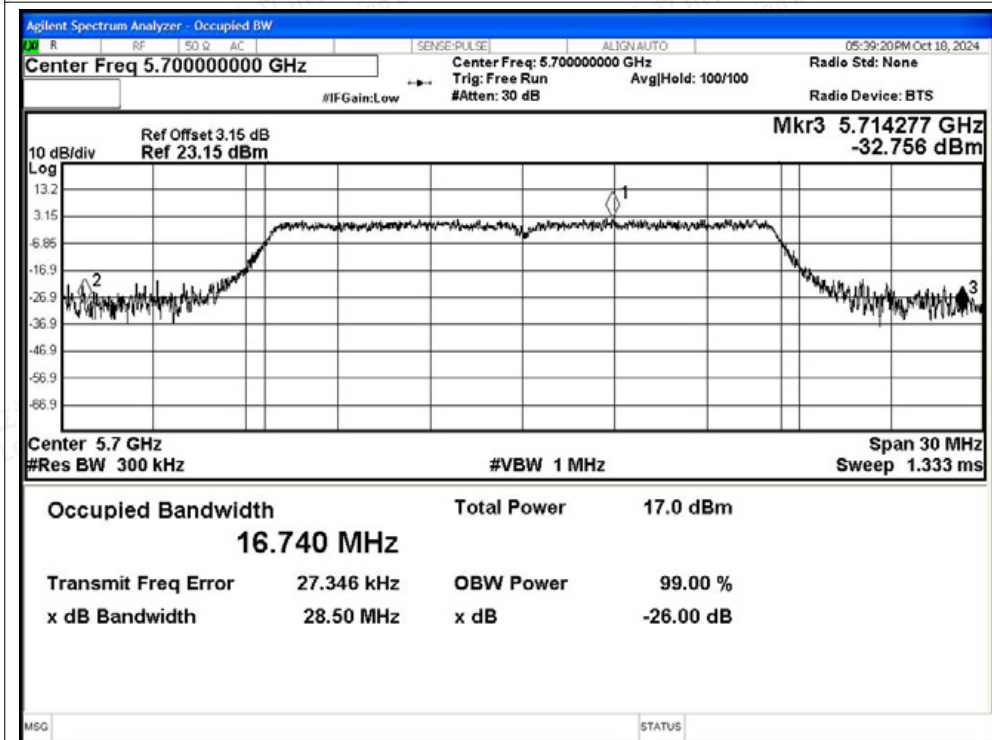
-26dB Bandwidth NVNT a 5580MHz Ant1



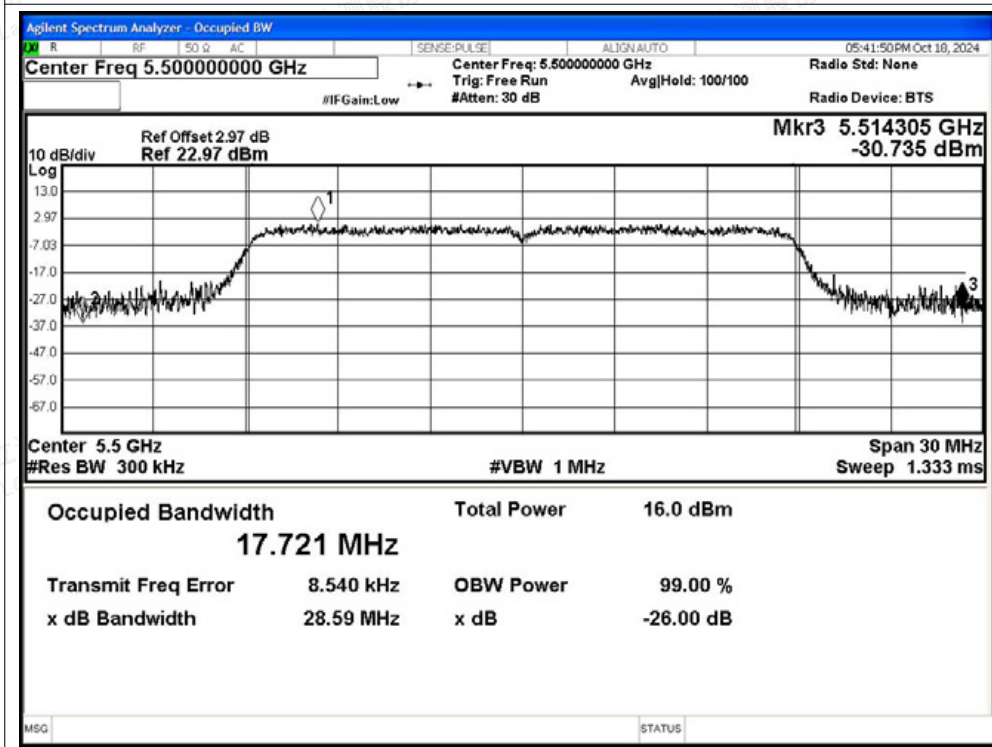




-26dB Bandwidth NVNT a 5700MHz Ant1

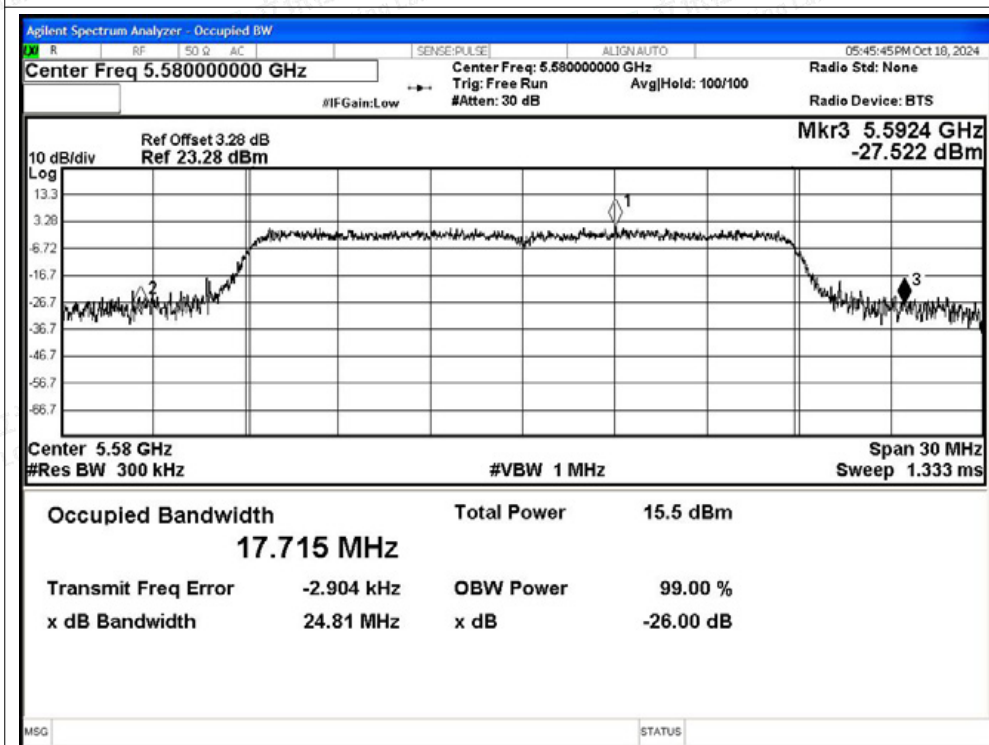


-26dB Bandwidth NVNT n20 5500MHz Ant1

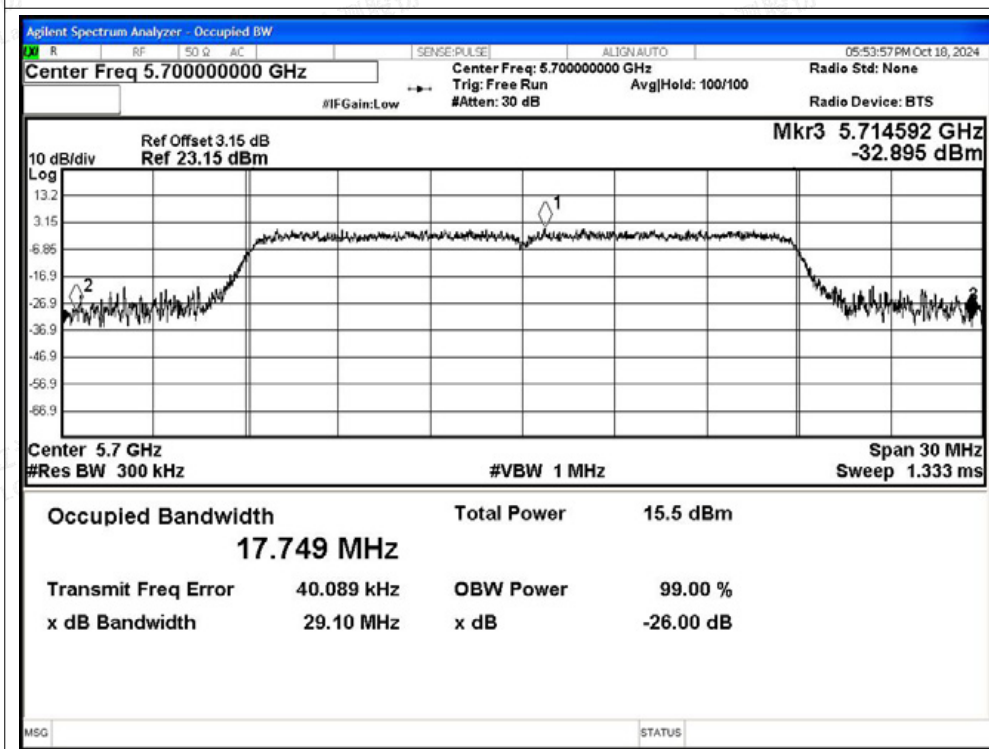




-26dB Bandwidth NVNT n20 5580MHz Ant1

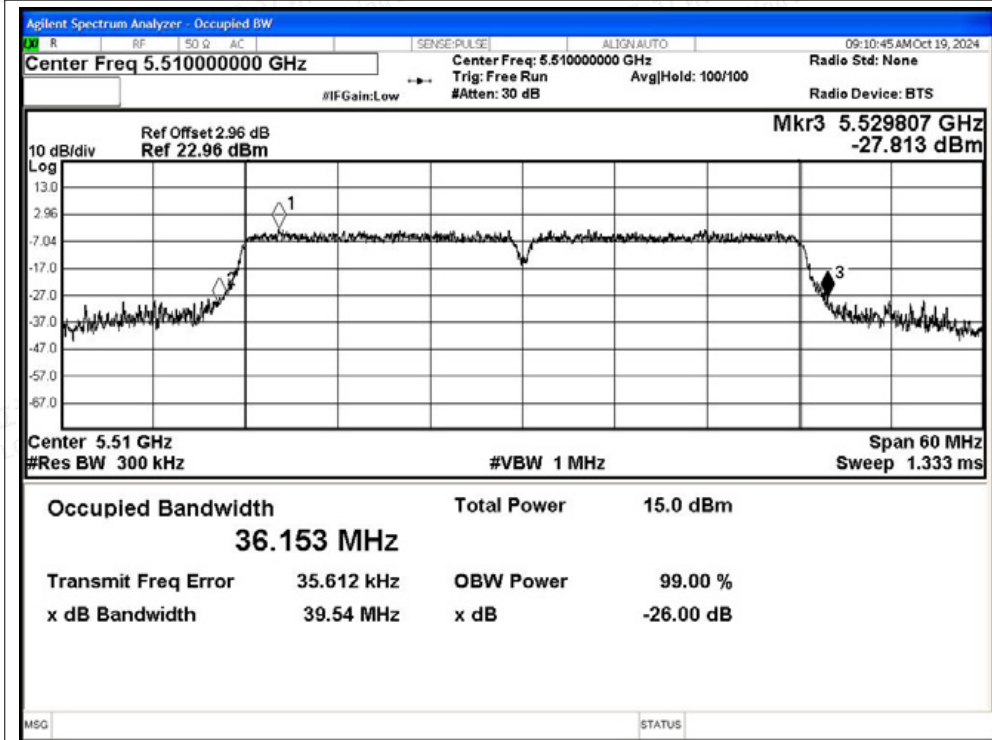


-26dB Bandwidth NVNT n20 5700MHz Ant1

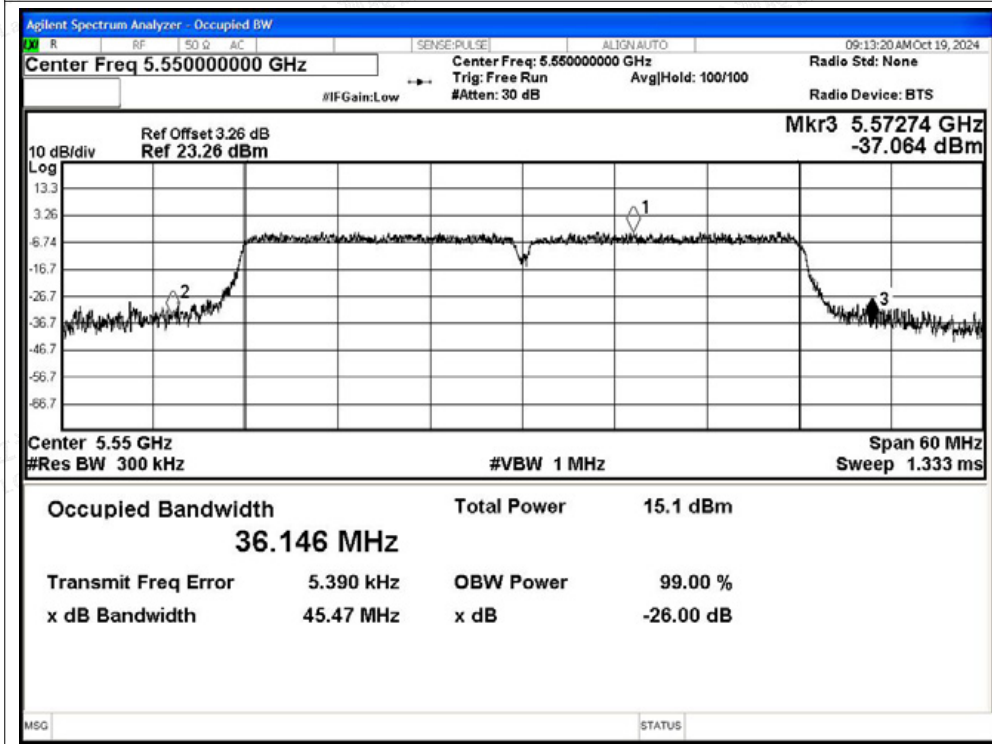




-26dB Bandwidth NVNT n40 5510MHz Ant1

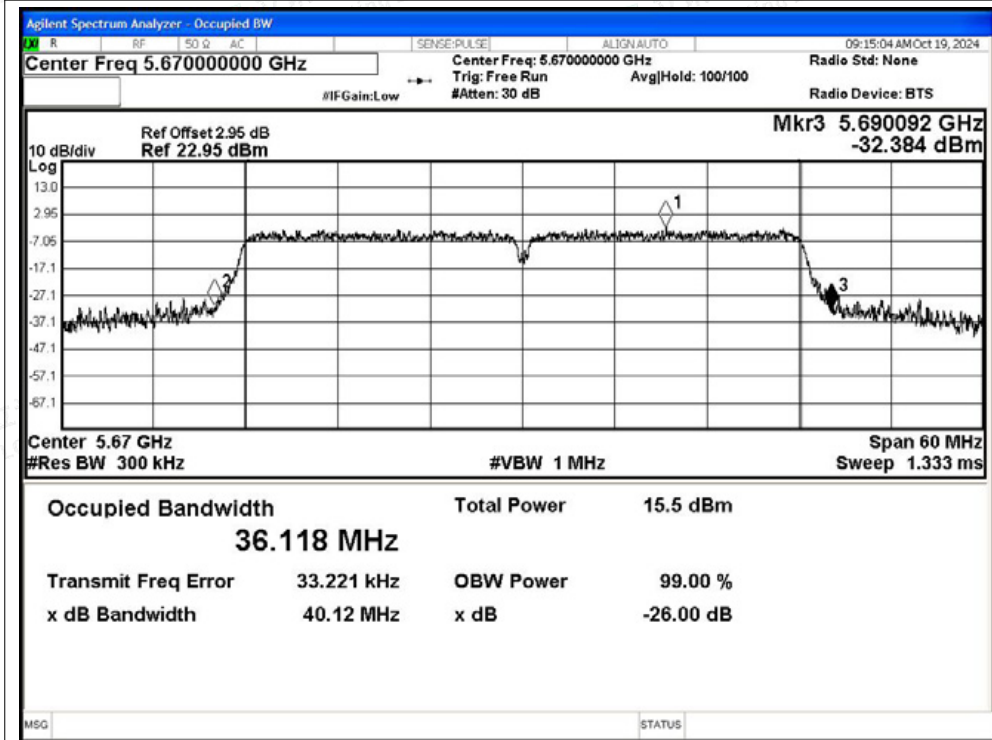


-26dB Bandwidth NVNT n40 5550MHz Ant1

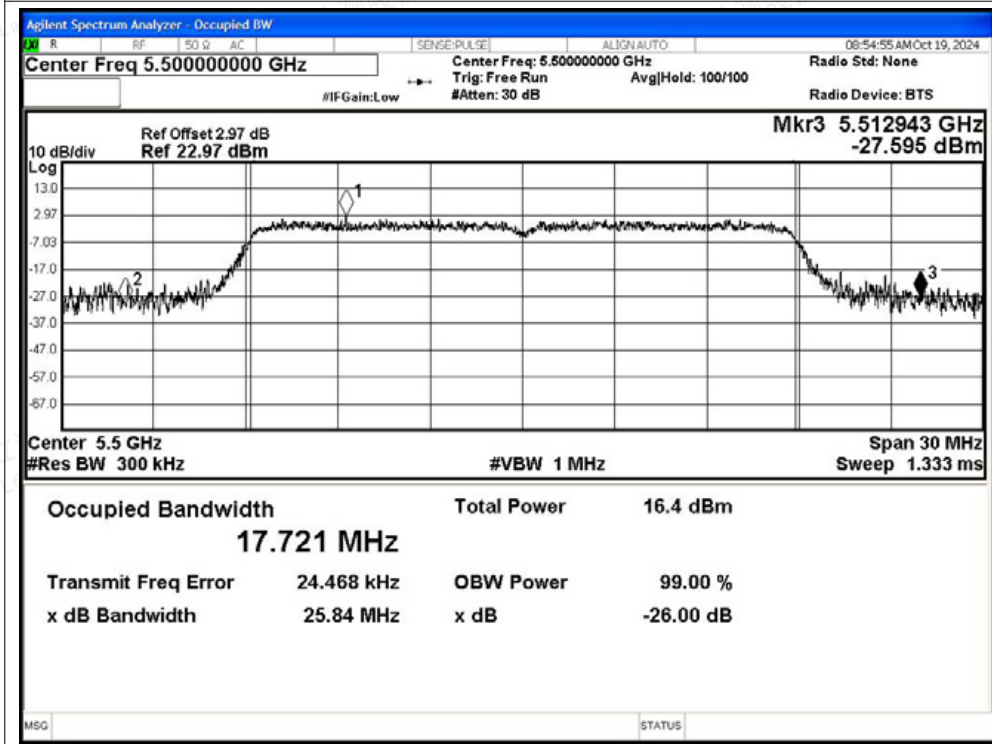




-26dB Bandwidth NVNT n40 5670MHz Ant1

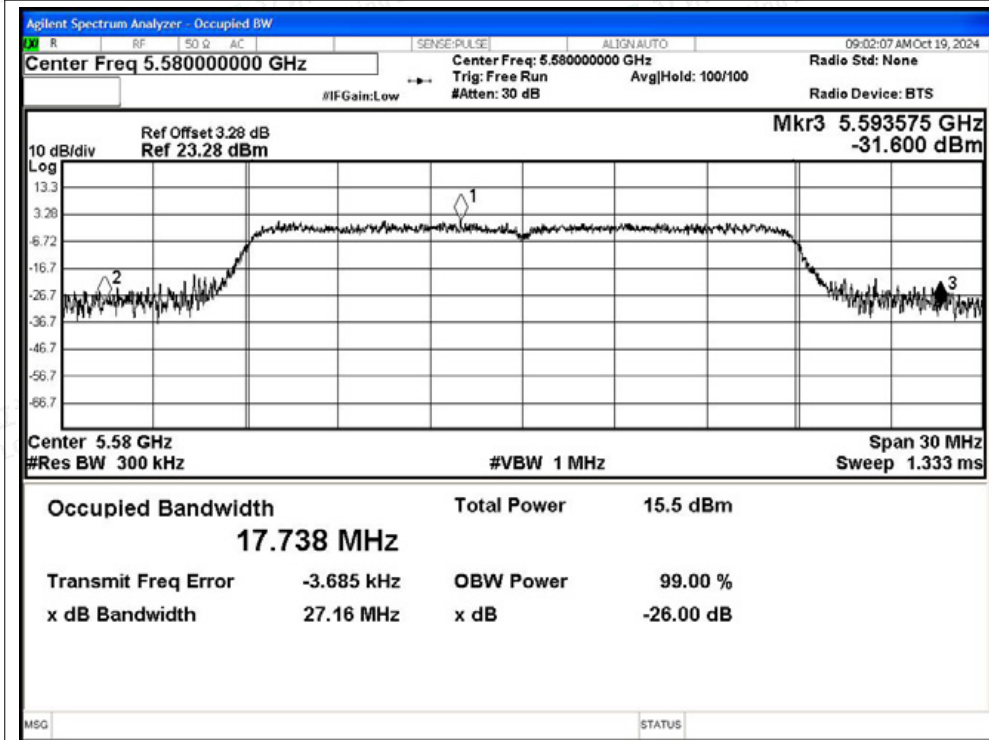


-26dB Bandwidth NVNT ac20 5500MHz Ant1

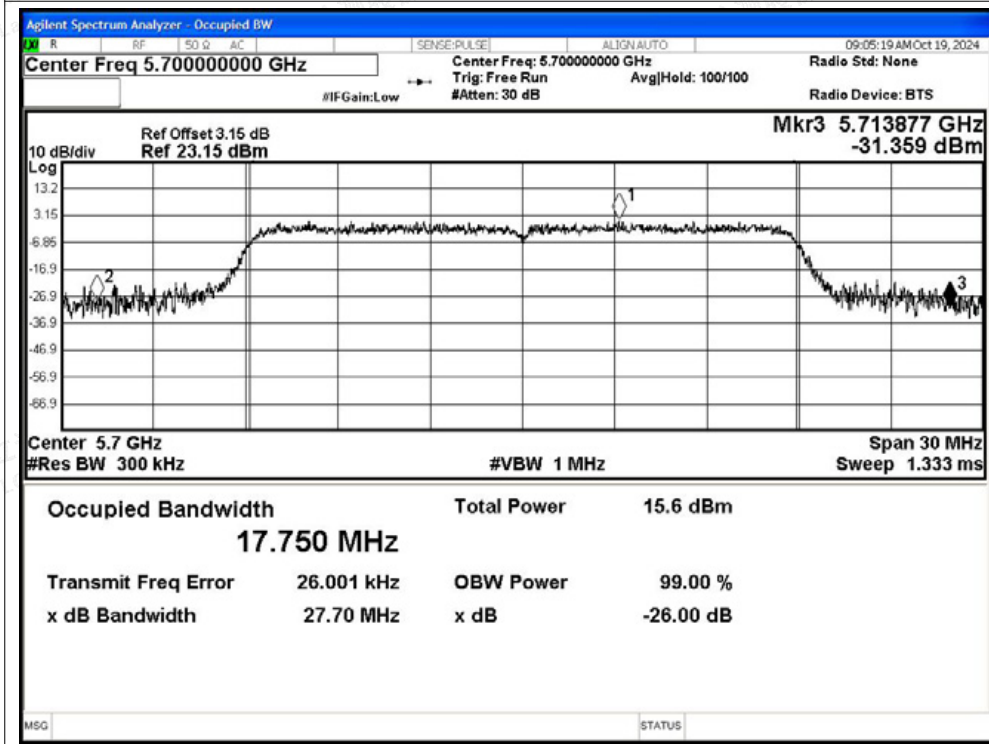




-26dB Bandwidth NVNT ac20 5580MHz Ant1

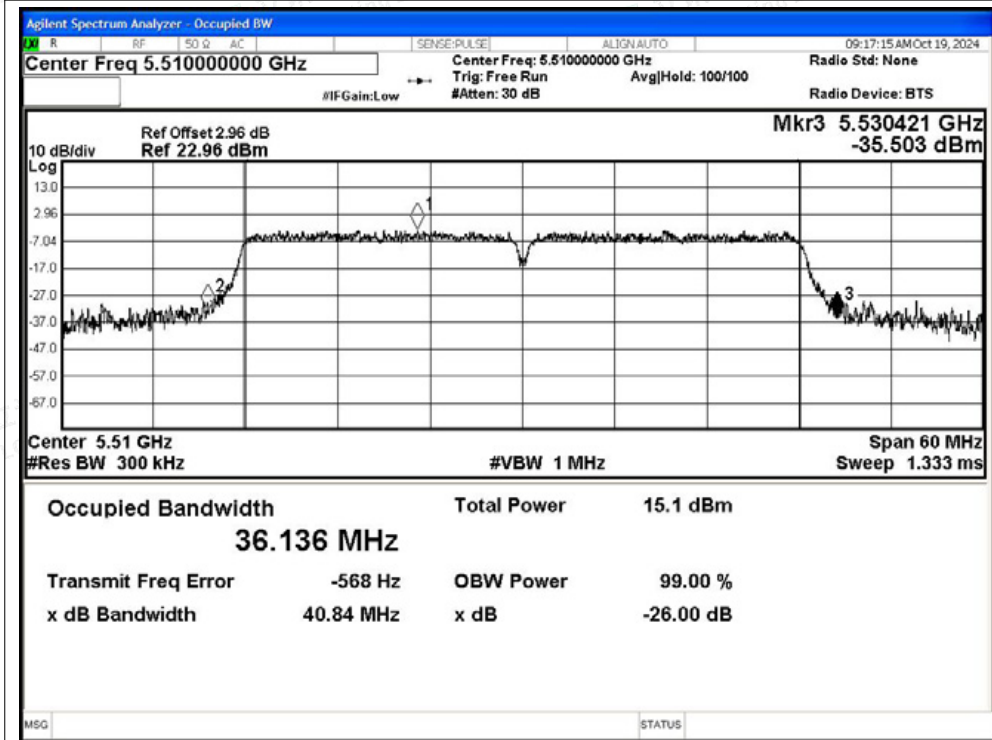


-26dB Bandwidth NVNT ac20 5700MHz Ant1

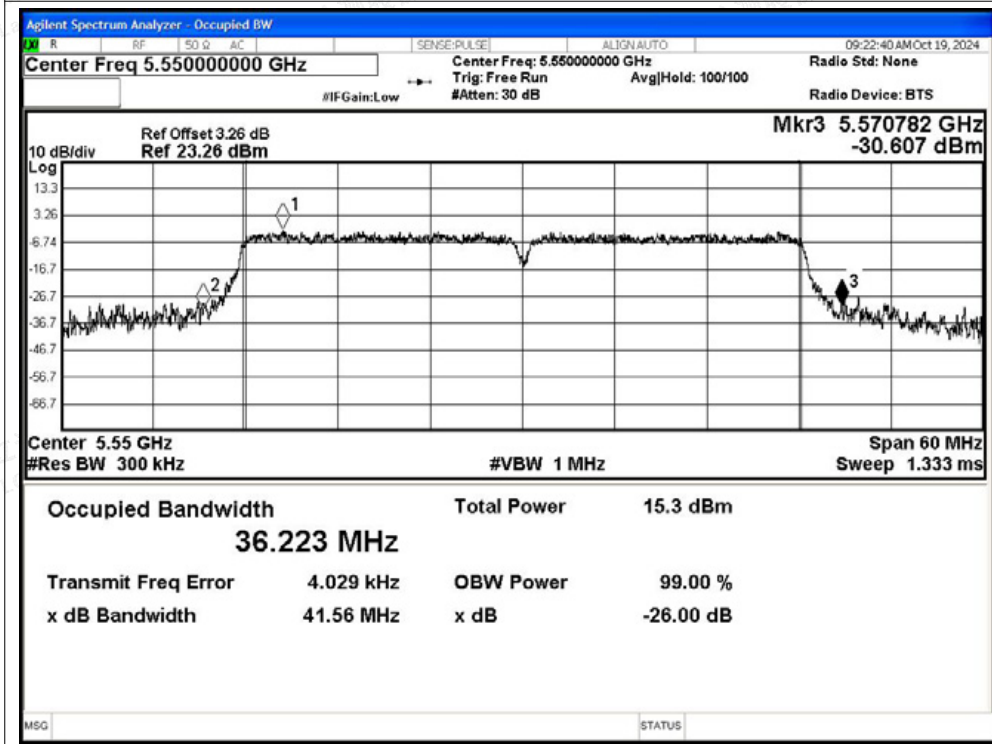




-26dB Bandwidth NVNT ac40 5510MHz Ant1

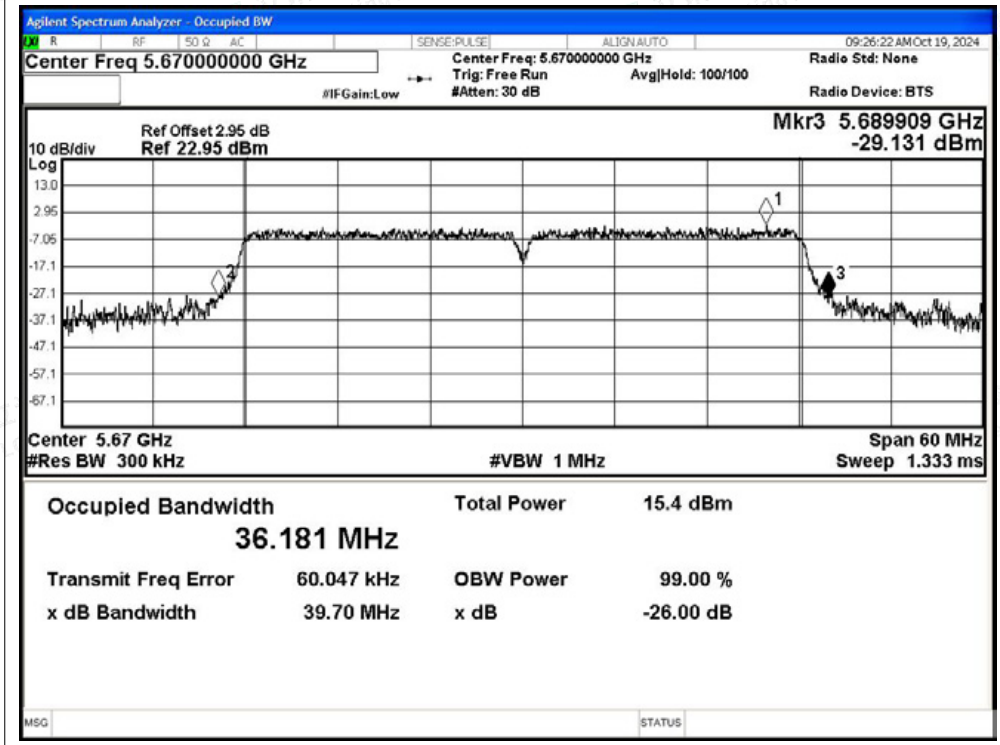


-26dB Bandwidth NVNT ac40 5550MHz Ant1



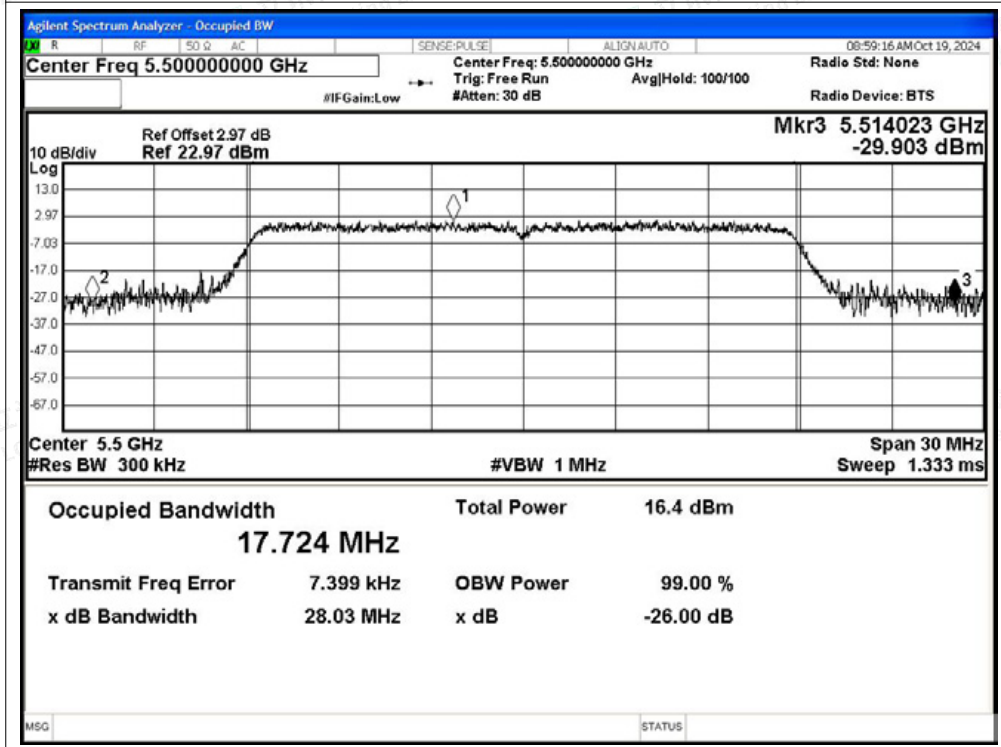


-26dB Bandwidth NVNT ac40 5670MHz Ant1





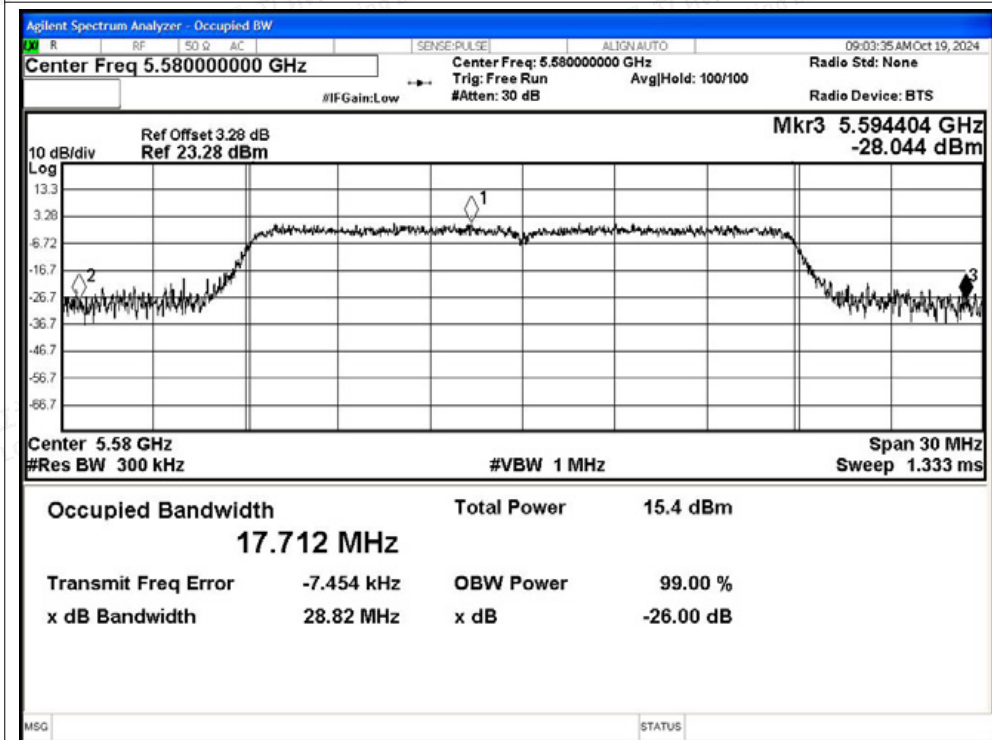
-26dB Bandwidth NVNT ax20 5500MHz Ant1



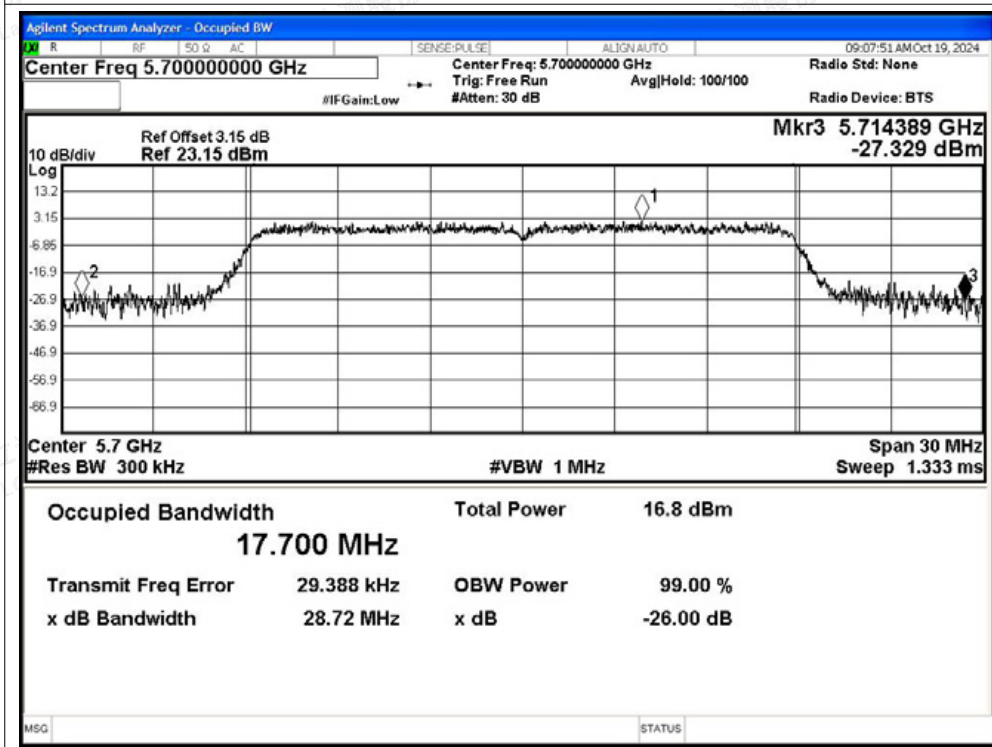




-26dB Bandwidth NVNT ax20 5580MHz Ant1

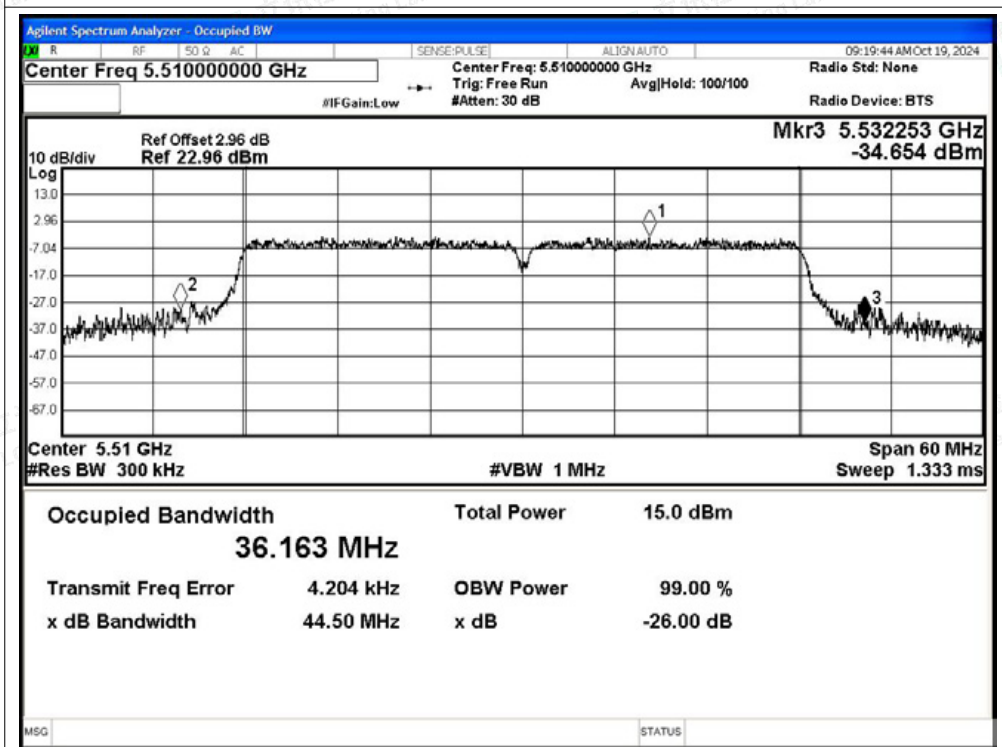


-26dB Bandwidth NVNT ax20 5700MHz Ant1

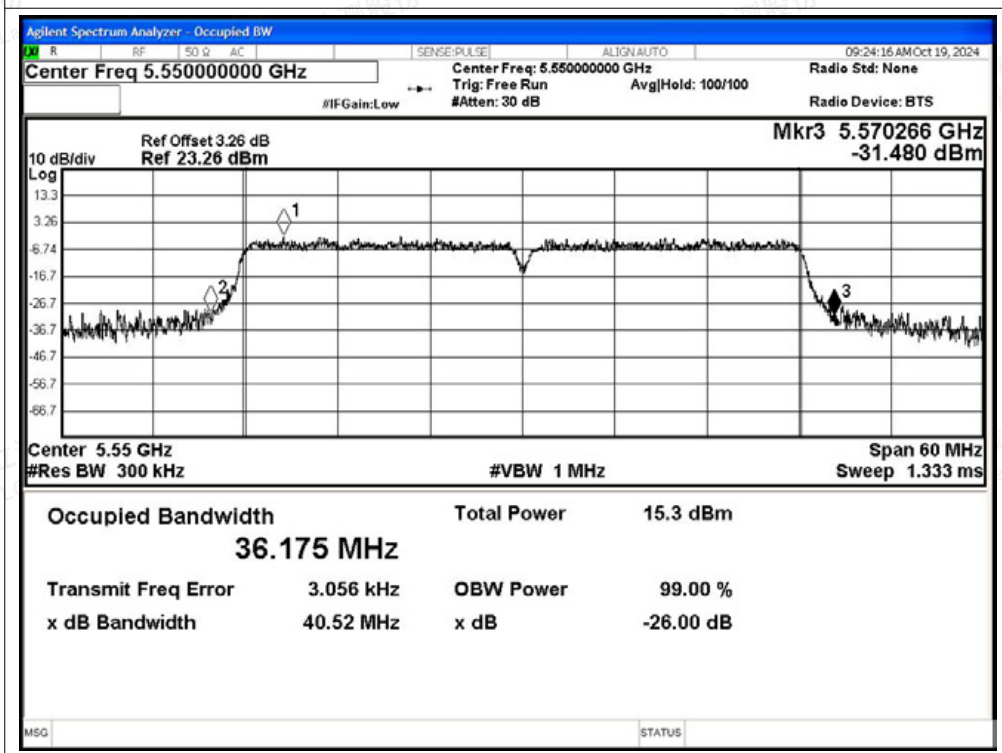




-26dB Bandwidth NVNT ax40 5510MHz Ant1

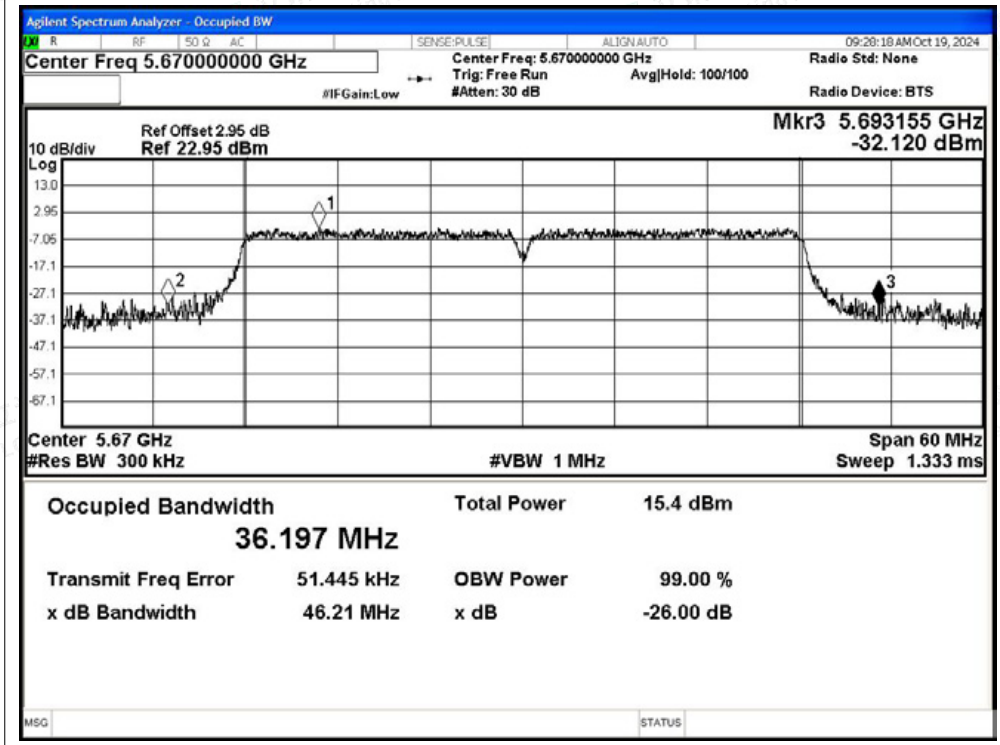


-26dB Bandwidth NVNT ax40 5550MHz Ant1





-26dB Bandwidth NVNT ax40 5670MHz Ant1





### 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	Ant0	12.28	0.24	12.52	24	Pass
NVNT	a	5580	Ant0	12.4	0.24	12.64	24	Pass
NVNT	a	5700	Ant0	12.38	0.24	12.62	24	Pass
NVNT	n20	5500	Ant0	11.64	0.12	11.76	24	Pass
NVNT	n20	5580	Ant0	10.97	0.12	11.09	24	Pass
NVNT	n20	5700	Ant0	11.07	0.12	11.19	24	Pass
NVNT	n40	5510	Ant0	10.65	0.12	10.77	24	Pass
NVNT	n40	5550	Ant0	10.73	0.12	10.85	24	Pass
NVNT	n40	5670	Ant0	10.56	0.12	10.68	24	Pass
NVNT	ac20	5500	Ant0	11.71	0.12	11.83	24	Pass
NVNT	ac20	5580	Ant0	11.82	0.12	11.94	24	Pass
NVNT	ac20	5700	Ant0	11.83	0.12	11.95	24	Pass
NVNT	ac40	5510	Ant0	10.65	0.12	10.77	24	Pass
NVNT	ac40	5550	Ant0	10.26	0.12	10.38	24	Pass
NVNT	ac40	5670	Ant0	10.56	0.12	10.68	24	Pass
NVNT	ax20	5500	Ant0	11.74	0.12	11.86	24	Pass
NVNT	ax20	5580	Ant0	11.83	0.12	11.95	24	Pass
NVNT	ax20	5700	Ant0	11.86	0.12	11.98	24	Pass
NVNT	ax40	5510	Ant0	10.23	0.12	10.35	24	Pass
NVNT	ax40	5550	Ant0	10.29	0.12	10.41	24	Pass
NVNT	ax40	5670	Ant0	10.59	0.12	10.71	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	11.08	0.24	11.32	24	Pass
NVNT	a	5580	Ant1	11.48	0.24	11.72	24	Pass
NVNT	a	5700	Ant1	11.34	0.24	11.58	24	Pass
NVNT	n20	5500	Ant1	10.47	0.12	10.59	24	Pass
NVNT	n20	5580	Ant1	10.02	0.12	10.14	24	Pass
NVNT	n20	5700	Ant1	10.08	0.12	10.2	24	Pass
NVNT	n40	5510	Ant1	9.35	0.12	9.47	24	Pass
NVNT	n40	5550	Ant1	9.54	0.12	9.66	24	Pass
NVNT	n40	5670	Ant1	9.81	0.12	9.93	24	Pass
NVNT	ac20	5500	Ant1	10.44	0.12	10.56	24	Pass
NVNT	ac20	5580	Ant1	9.93	0.12	10.05	24	Pass
NVNT	ac20	5700	Ant1	10.04	0.12	10.16	24	Pass
NVNT	ac40	5510	Ant1	9.37	0.12	9.49	24	Pass



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 Scan code to check authenticity



NVNT	ac40	5550	Ant1	9.59	0.12	9.71	24	Pass
NVNT	ac40	5670	Ant1	9.84	0.12	9.96	24	Pass
NVNT	ax20	5500	Ant1	10.75	0.12	10.87	24	Pass
NVNT	ax20	5580	Ant1	9.93	0.12	10.05	24	Pass
NVNT	ax20	5700	Ant1	11.26	0.12	11.38	24	Pass
NVNT	ax40	5510	Ant1	9.36	0.12	9.48	24	Pass
NVNT	ax40	5550	Ant1	9.59	0.12	9.71	24	Pass
NVNT	ax40	5670	Ant1	9.81	0.12	9.93	24	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5500	11.76	10.59	14.22	24	Pass
NVNT	n20	5580	11.09	10.14	13.65	24	Pass
NVNT	n20	5700	11.19	10.2	13.73	24	Pass
NVNT	n40	5510	10.77	9.47	13.18	24	Pass
NVNT	n40	5550	10.85	9.66	13.31	24	Pass
NVNT	n40	5670	10.68	9.93	13.33	24	Pass
NVNT	ac20	5500	11.83	10.56	14.25	24	Pass
NVNT	ac20	5580	11.94	10.05	14.11	24	Pass
NVNT	ac20	5700	11.95	10.16	14.16	24	Pass
NVNT	ac40	5510	10.77	9.49	13.19	24	Pass
NVNT	ac40	5550	10.38	9.71	13.07	24	Pass
NVNT	ac40	5670	10.68	9.96	13.35	24	Pass
NVNT	ax20	5500	11.86	10.87	14.40	24	Pass
NVNT	ax20	5580	11.95	10.05	14.11	24	Pass
NVNT	ax20	5700	11.98	11.38	14.70	24	Pass
NVNT	ax40	5510	10.35	9.48	12.95	24	Pass
NVNT	ax40	5550	10.41	9.71	13.08	24	Pass
NVNT	ax40	5670	10.71	9.93	13.35	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	Ant0	1.59	0.24	1.83	11	Pass
NVNT	a	5580	Ant0	1.7	0.24	1.94	11	Pass
NVNT	a	5700	Ant0	1.76	0.24	2	11	Pass
NVNT	n20	5500	Ant0	0.91	0.12	1.03	11	Pass
NVNT	n20	5580	Ant0	0.18	0.12	0.3	11	Pass
NVNT	n20	5700	Ant0	0.46	0.12	0.58	11	Pass
NVNT	n40	5510	Ant0	-3.27	0.12	-3.15	11	Pass
NVNT	n40	5550	Ant0	-3.32	0.12	-3.2	11	Pass
NVNT	n40	5670	Ant0	-3.49	0.12	-3.37	11	Pass
NVNT	ac20	5500	Ant0	0.85	0.12	0.97	11	Pass
NVNT	ac20	5580	Ant0	1.14	0.12	1.26	11	Pass
NVNT	ac20	5700	Ant0	0.98	0.12	1.1	11	Pass
NVNT	ac40	5510	Ant0	-3.13	0.12	-3.01	11	Pass
NVNT	ac40	5550	Ant0	-3.49	0.12	-3.37	11	Pass
NVNT	ac40	5670	Ant0	-3.34	0.12	-3.22	11	Pass
NVNT	ax20	5500	Ant0	0.83	0.12	0.95	11	Pass
NVNT	ax20	5580	Ant0	1.03	0.12	1.15	11	Pass
NVNT	ax20	5700	Ant0	1.02	0.12	1.14	11	Pass
NVNT	ax40	5510	Ant0	-3.56	0.12	-3.44	11	Pass
NVNT	ax40	5550	Ant0	-3.53	0.12	-3.41	11	Pass
NVNT	ax40	5670	Ant0	-3.28	0.12	-3.16	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	Ant1	0.99	0.24	1.23	11	Pass
NVNT	a	5580	Ant1	0.78	0.24	1.02	11	Pass
NVNT	a	5700	Ant1	0.93	0.24	1.17	11	Pass
NVNT	n20	5500	Ant1	-0.44	0.12	-0.32	11	Pass
NVNT	n20	5580	Ant1	-0.76	0.12	-0.64	11	Pass
NVNT	n20	5700	Ant1	-0.87	0.12	-0.75	11	Pass
NVNT	n40	5510	Ant1	-4.59	0.12	-4.47	11	Pass
NVNT	n40	5550	Ant1	-4.24	0.12	-4.12	11	Pass
NVNT	n40	5670	Ant1	-3.86	0.12	-3.74	11	Pass
NVNT	ac20	5500	Ant1	0.26	0.12	0.38	11	Pass
NVNT	ac20	5580	Ant1	-0.78	0.12	-0.66	11	Pass
NVNT	ac20	5700	Ant1	-0.64	0.12	-0.52	11	Pass
NVNT	ac40	5510	Ant1	-4.47	0.12	-4.35	11	Pass



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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity



NVNT	ac40	5550	Ant1	-4.16	0.12	-4.04	11	Pass
NVNT	ac40	5670	Ant1	-3.9	0.12	-3.78	11	Pass
NVNT	ax20	5500	Ant1	-0.09	0.12	0.03	11	Pass
NVNT	ax20	5580	Ant1	-0.91	0.12	-0.79	11	Pass
NVNT	ax20	5700	Ant1	0.43	0.12	0.55	11	Pass
NVNT	ax40	5510	Ant1	-4.56	0.12	-4.44	11	Pass
NVNT	ax40	5550	Ant1	-4.19	0.12	-4.07	11	Pass
NVNT	ax40	5670	Ant1	-3.9	0.12	-3.78	11	Pass

MIMO

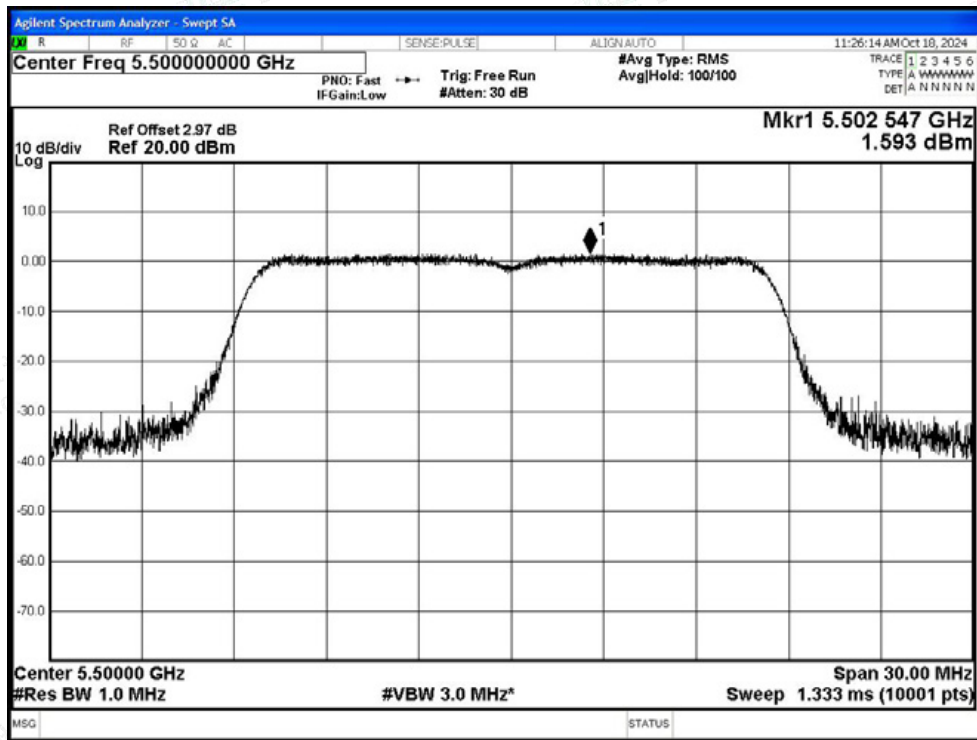
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Duty Factor (dB)				
			Ant0	Ant1			
NVNT	n20	5500	1.03	-0.32	3.42	11	Pass
NVNT	n20	5580	0.3	-0.64	2.87	11	Pass
NVNT	n20	5700	0.58	-0.75	2.98	11	Pass
NVNT	n40	5510	-3.15	-4.47	-0.75	11	Pass
NVNT	n40	5550	-3.2	-4.12	-0.63	11	Pass
NVNT	n40	5670	-3.37	-3.74	-0.54	11	Pass
NVNT	ac20	5500	0.97	0.38	3.70	11	Pass
NVNT	ac20	5580	1.26	-0.66	3.42	11	Pass
NVNT	ac20	5700	1.1	-0.52	3.38	11	Pass
NVNT	ac40	5510	-3.01	-4.35	-0.62	11	Pass
NVNT	ac40	5550	-3.37	-4.04	-0.68	11	Pass
NVNT	ac40	5670	-3.22	-3.78	-0.48	11	Pass
NVNT	ax20	5500	0.95	0.03	3.52	11	Pass
NVNT	ax20	5580	1.15	-0.79	3.30	11	Pass
NVNT	ax20	5700	1.14	0.55	3.87	11	Pass
NVNT	ax40	5510	-3.44	-4.44	-0.90	11	Pass
NVNT	ax40	5550	-3.41	-4.07	-0.72	11	Pass
NVNT	ax40	5670	-3.16	-3.78	-0.45	11	Pass



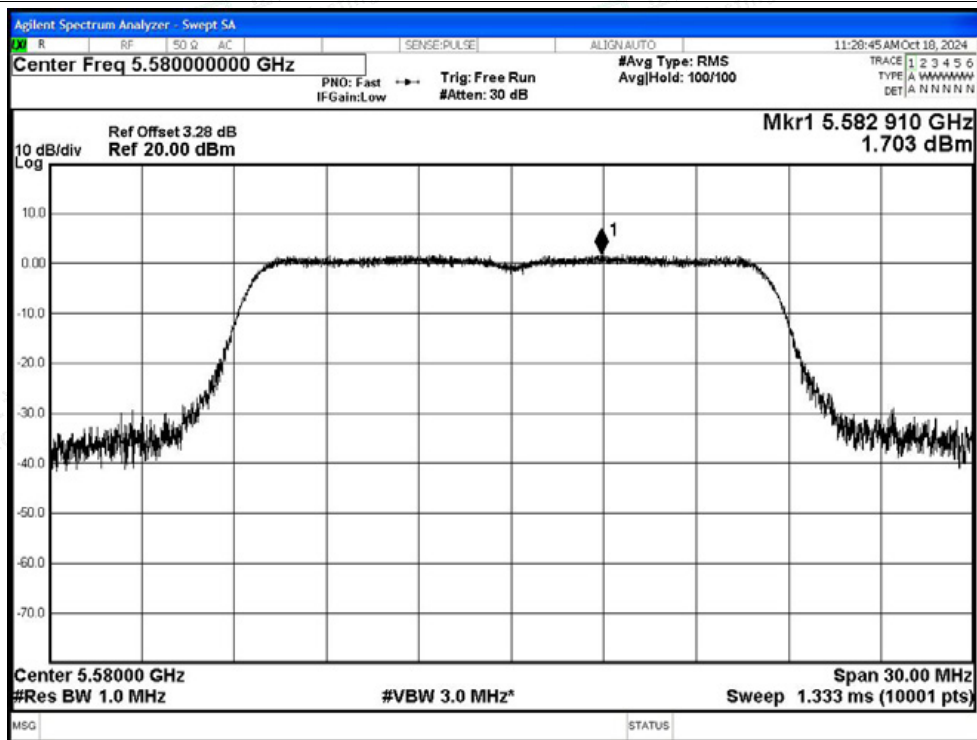


Test Graphs

PSD NVNT a 5500MHz Ant0



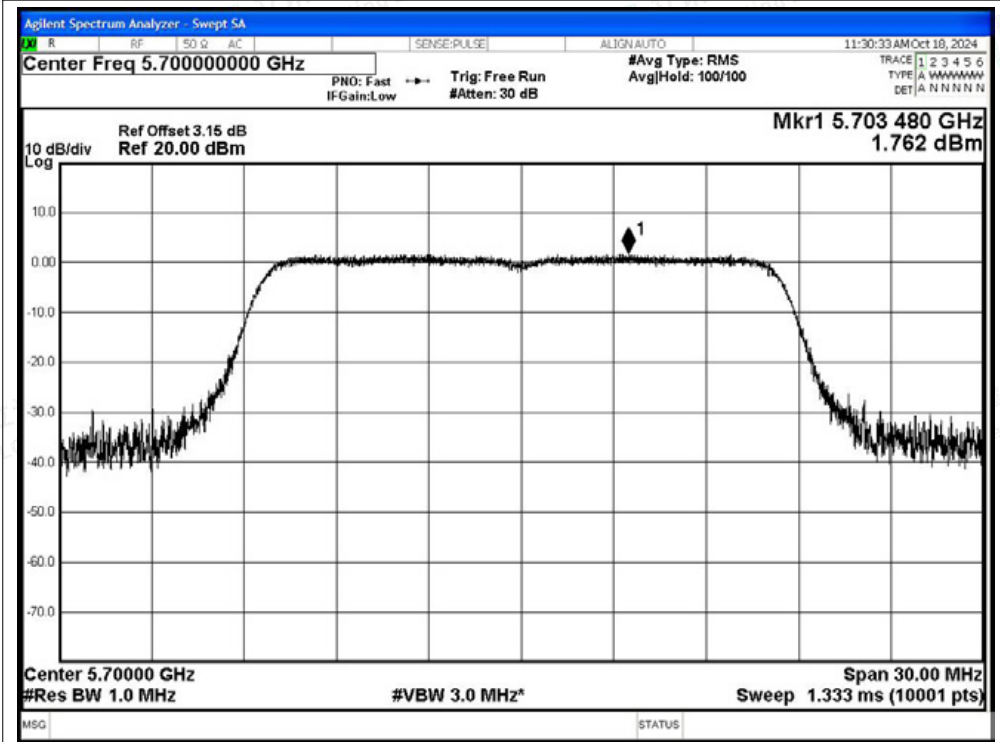
PSD NVNT a 5580MHz Ant0



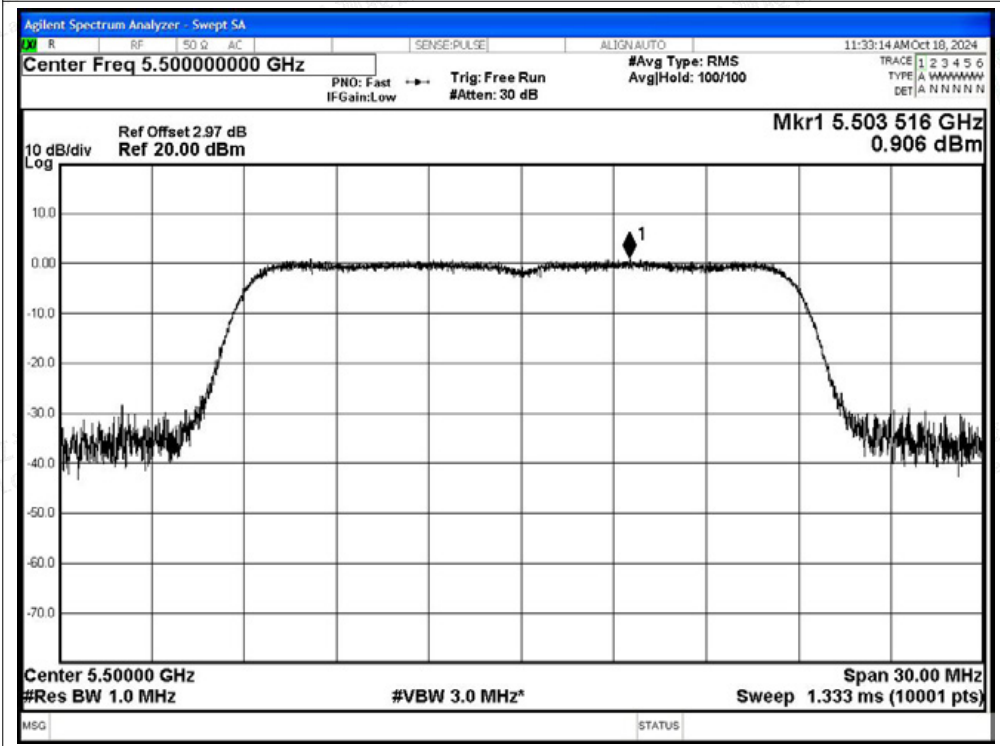




PSD NVNT a 5700MHz Ant0

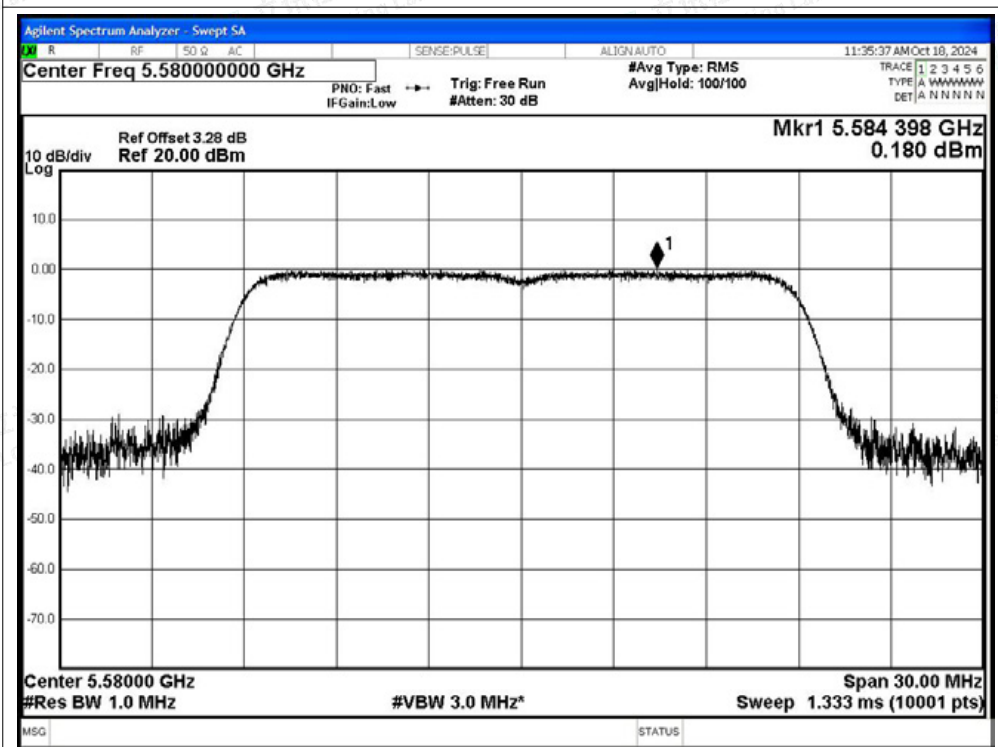


PSD NVNT n20 5500MHz Ant0

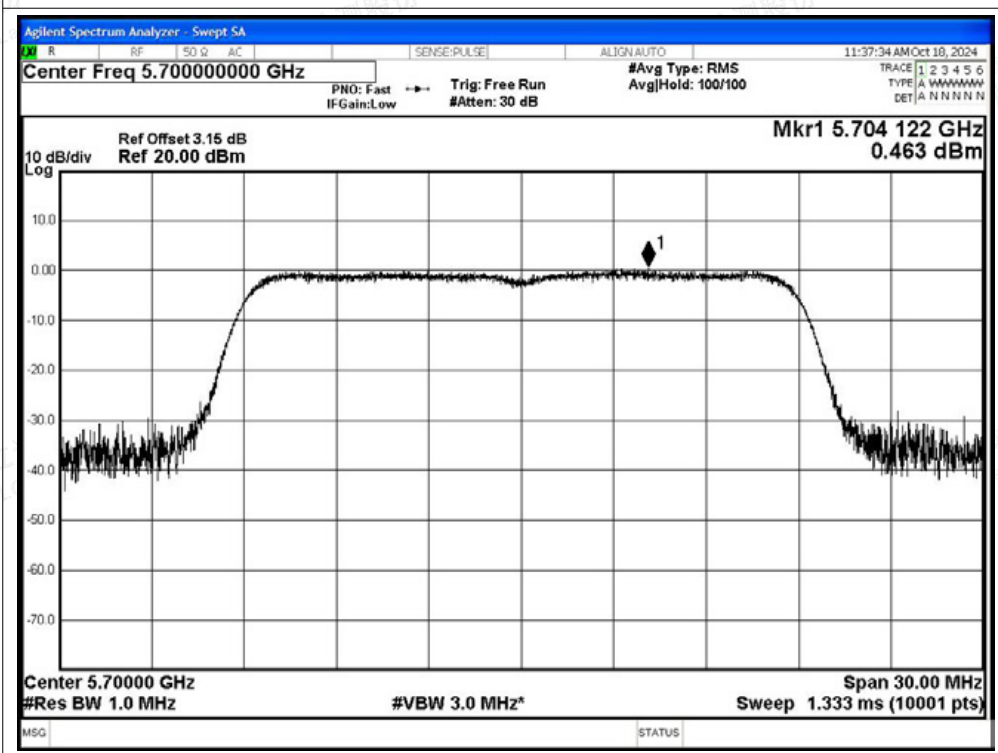




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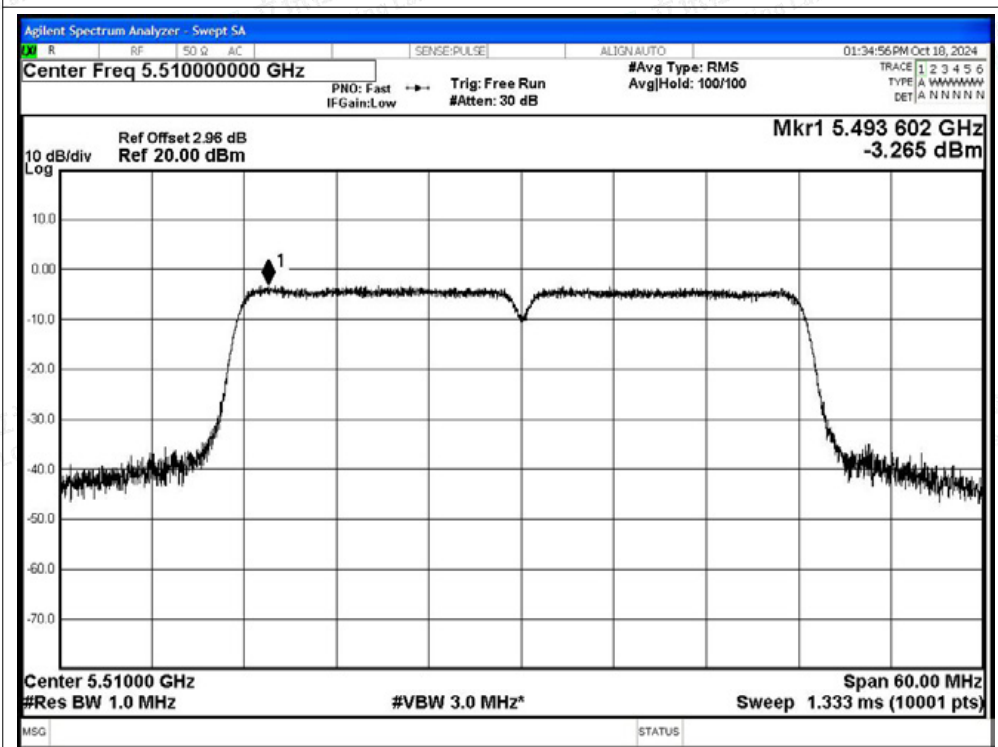


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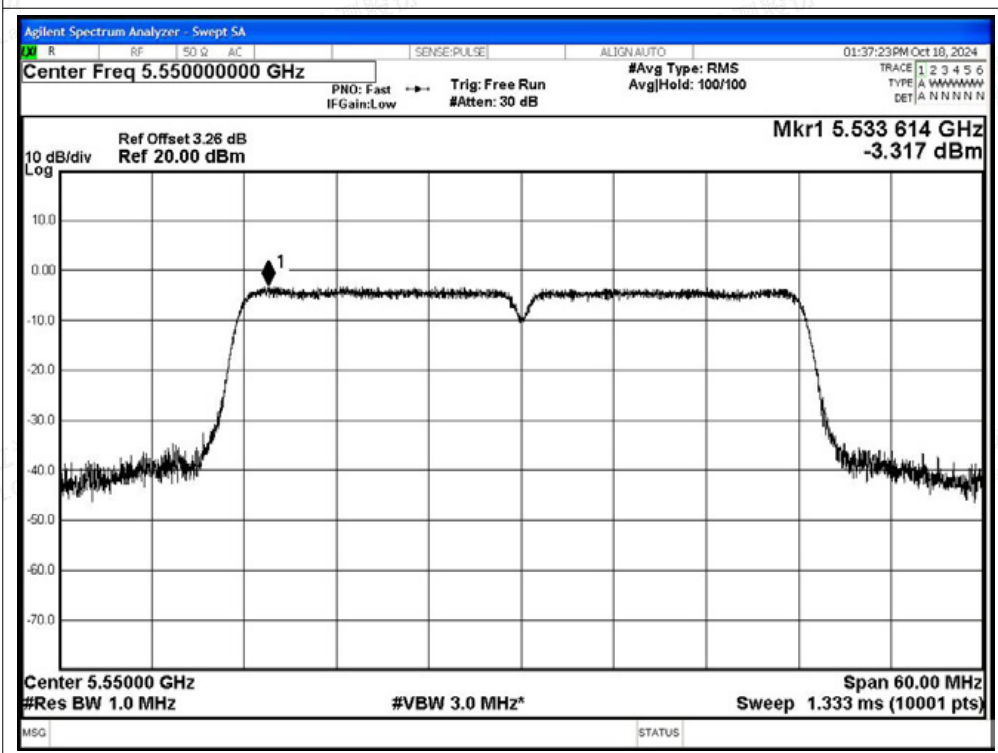




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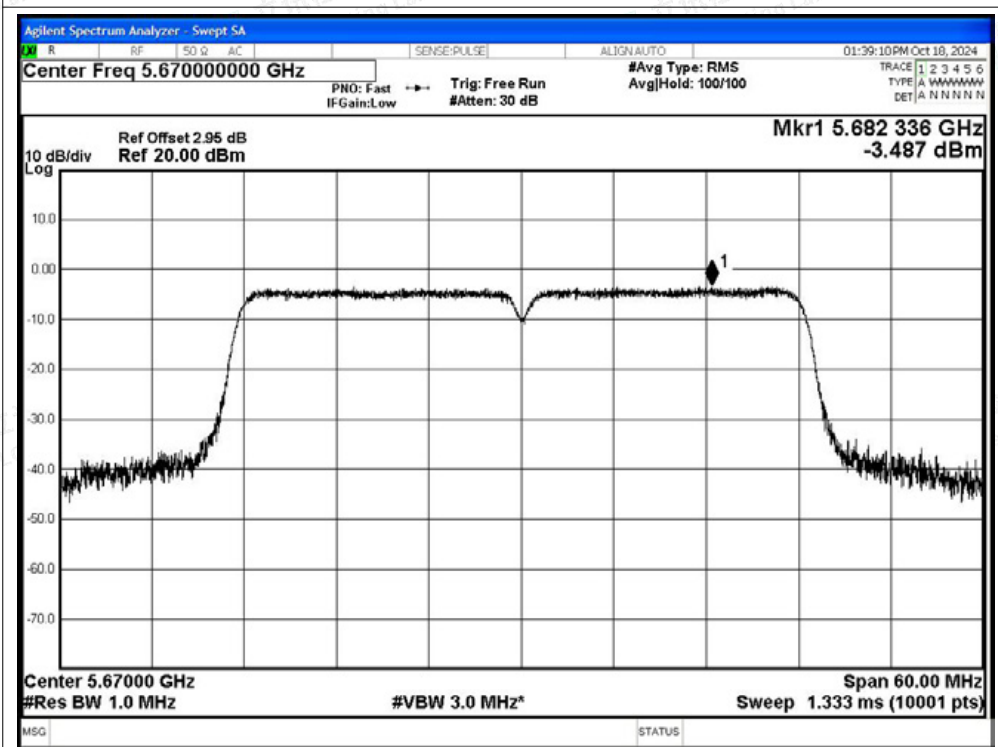


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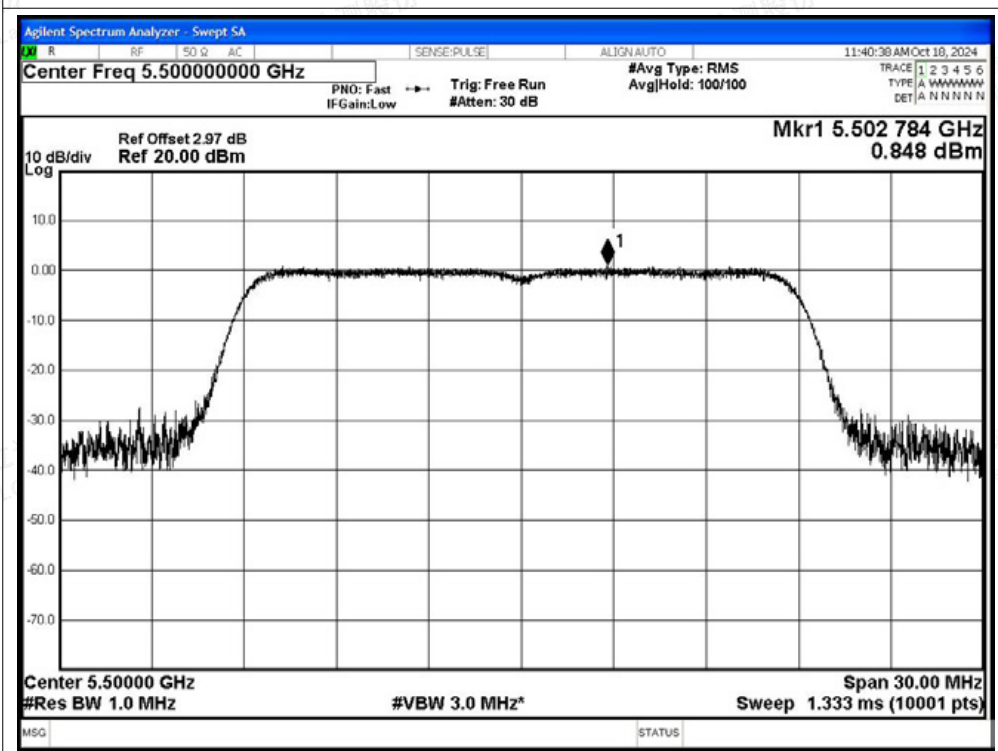




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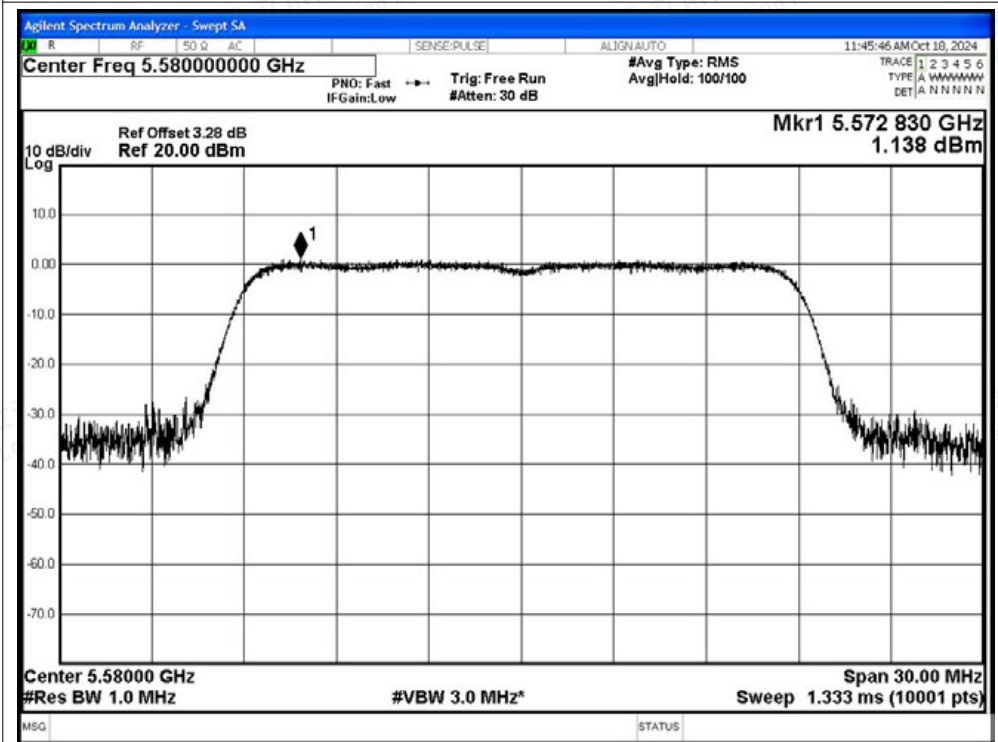


PSD NVNT ac20 5500MHz Ant0

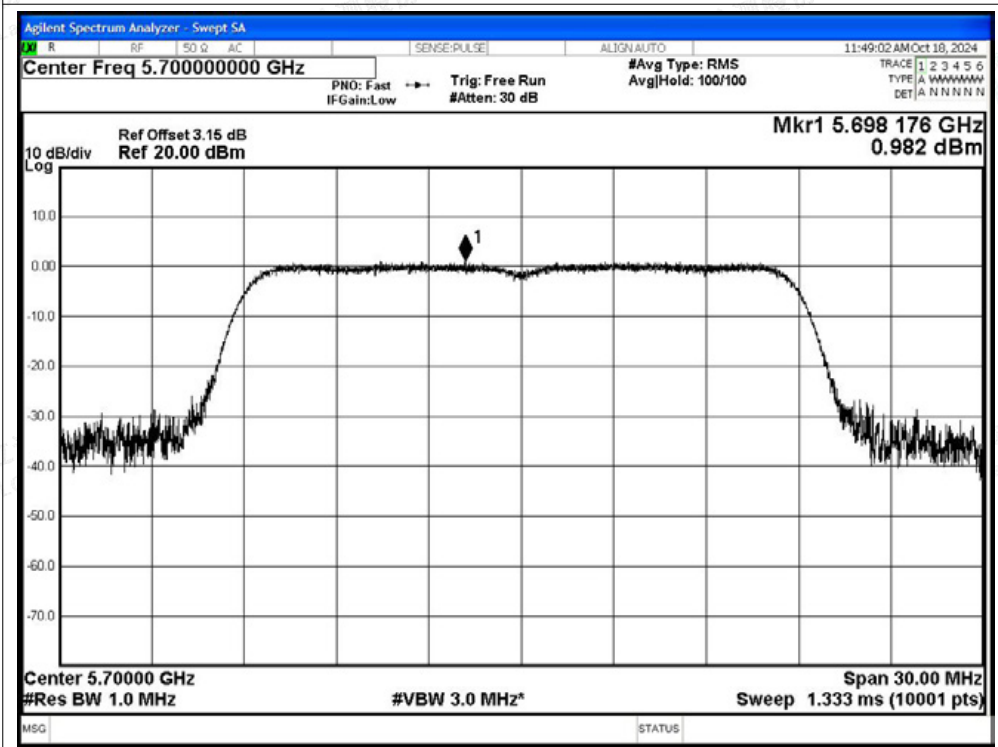




PSD NVNT ac20 5580MHz Ant0

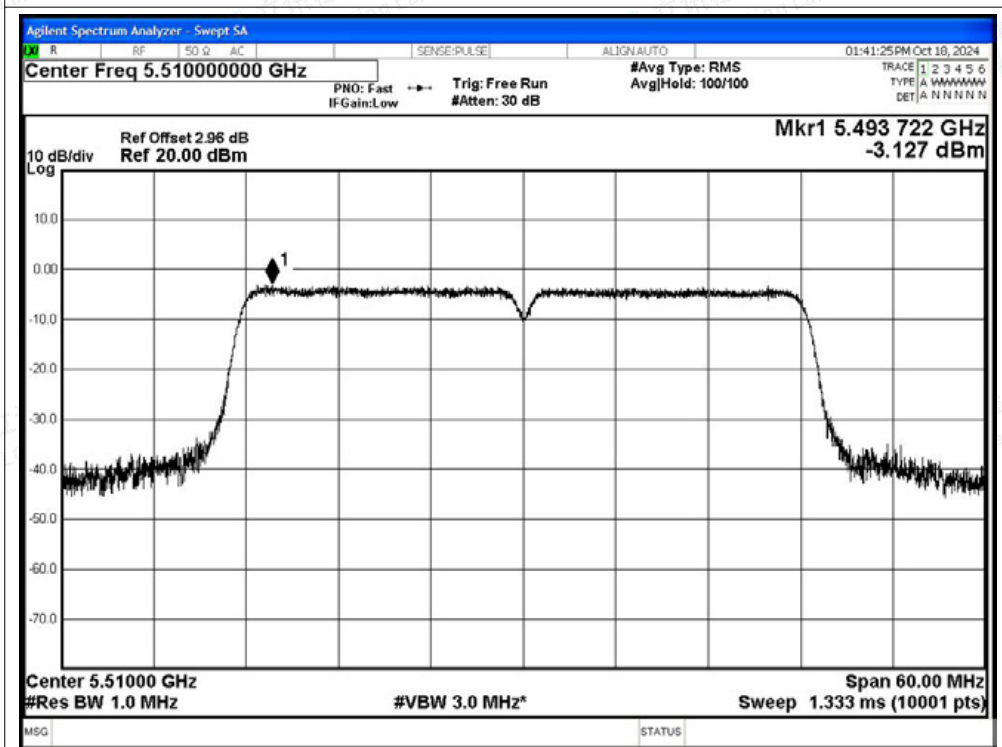


PSD NVNT ac20 5700MHz Ant0

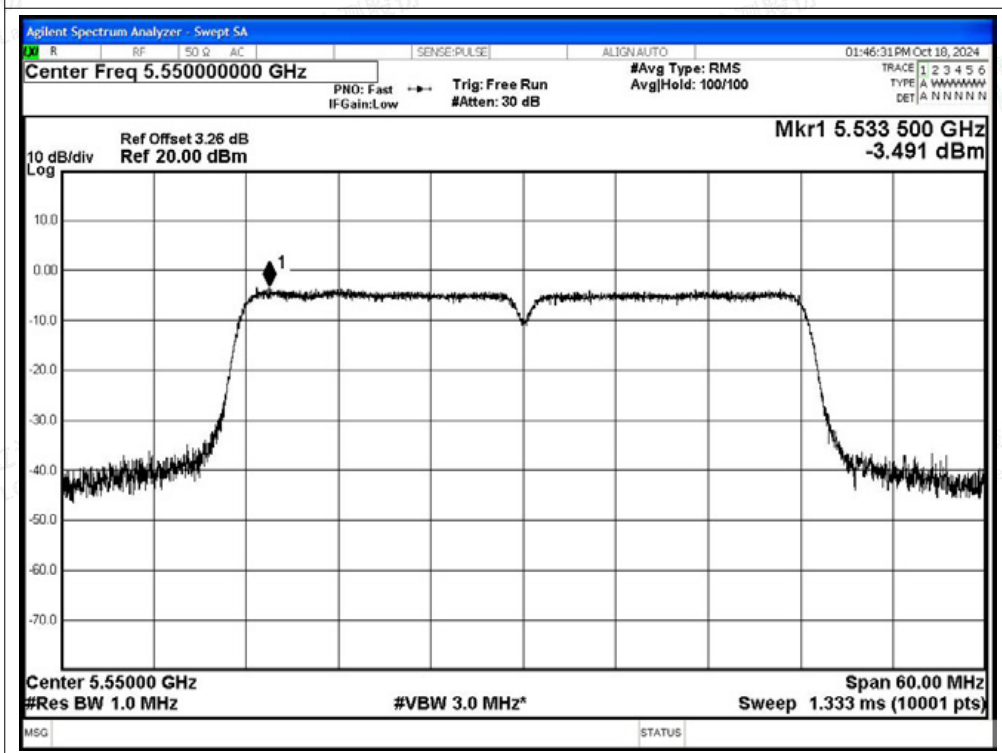


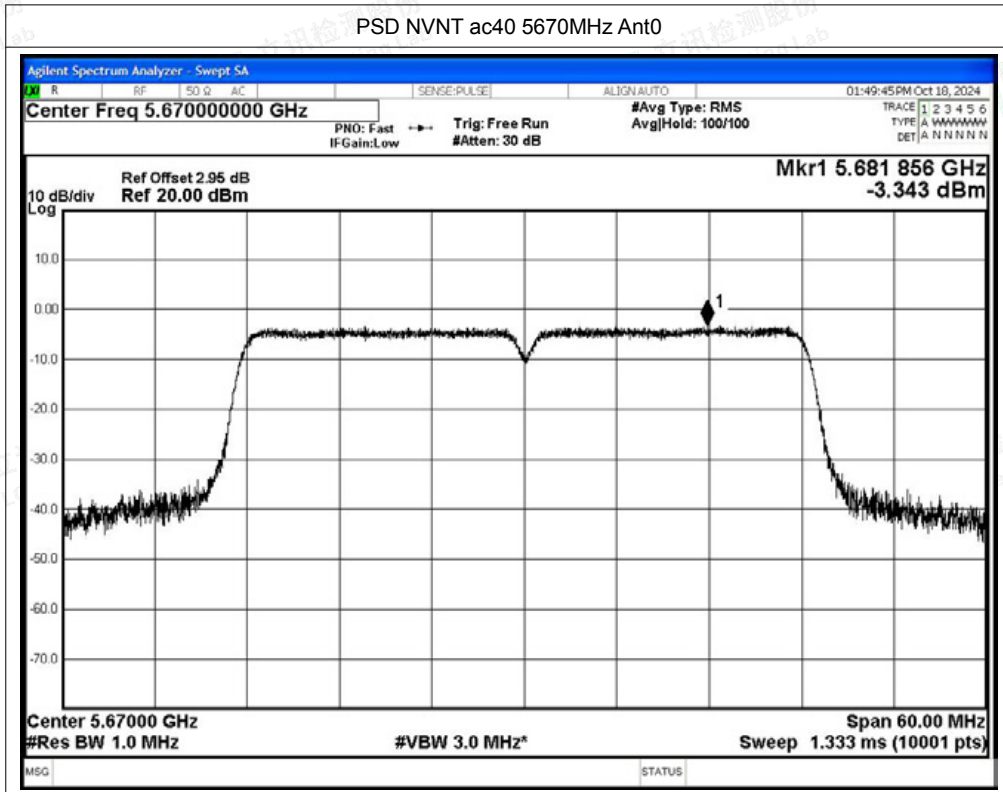


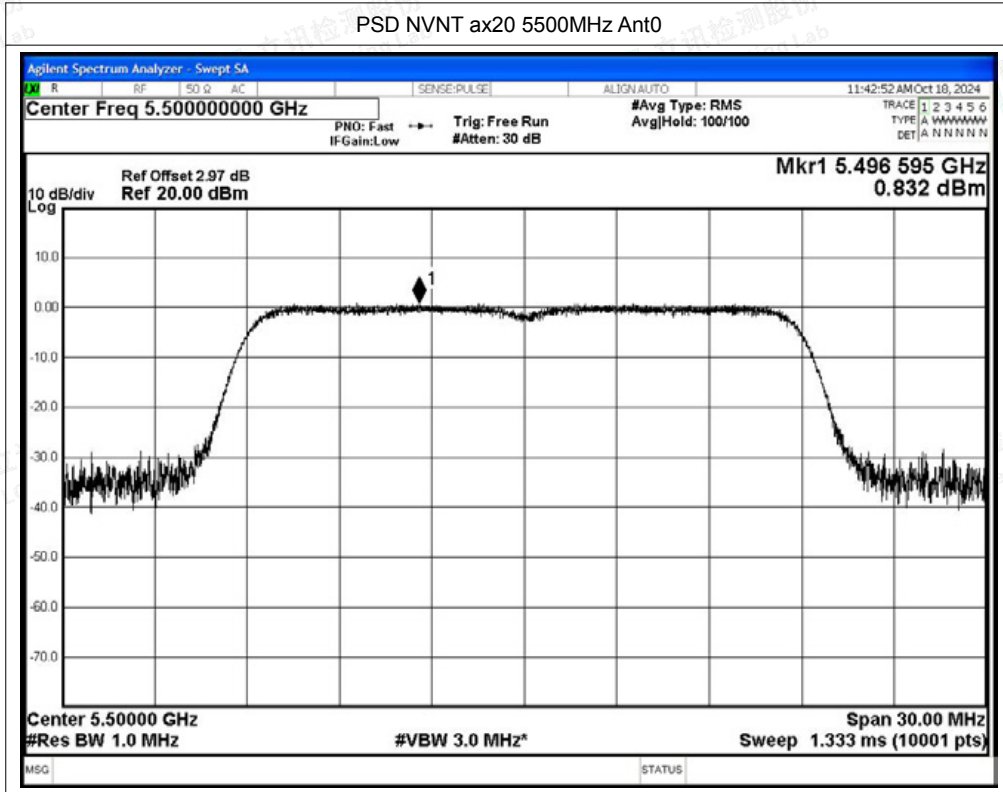
PSD NVNT ac40 5510MHz Ant0



PSD NVNT ac40 5550MHz Ant0



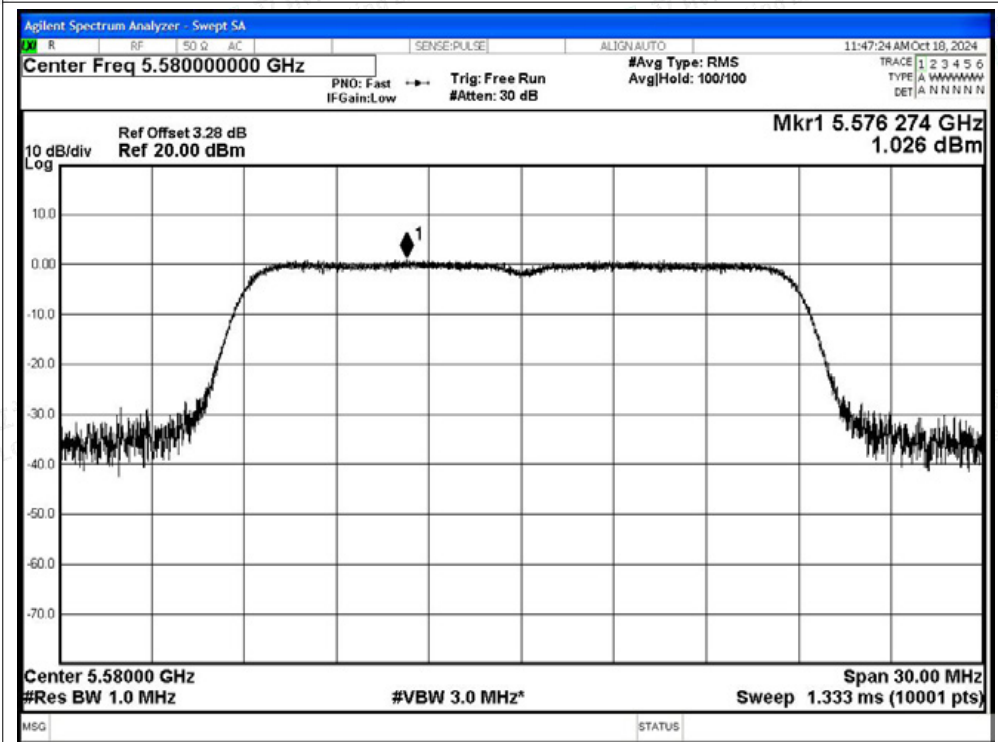




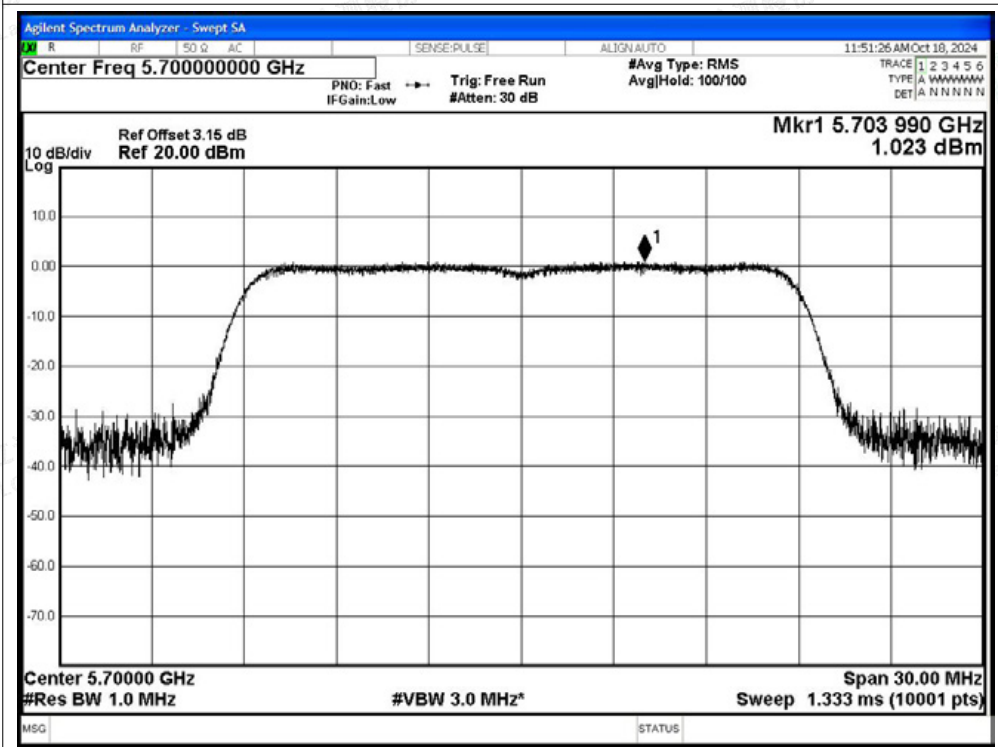




PSD NVNT ax20 5580MHz Ant0

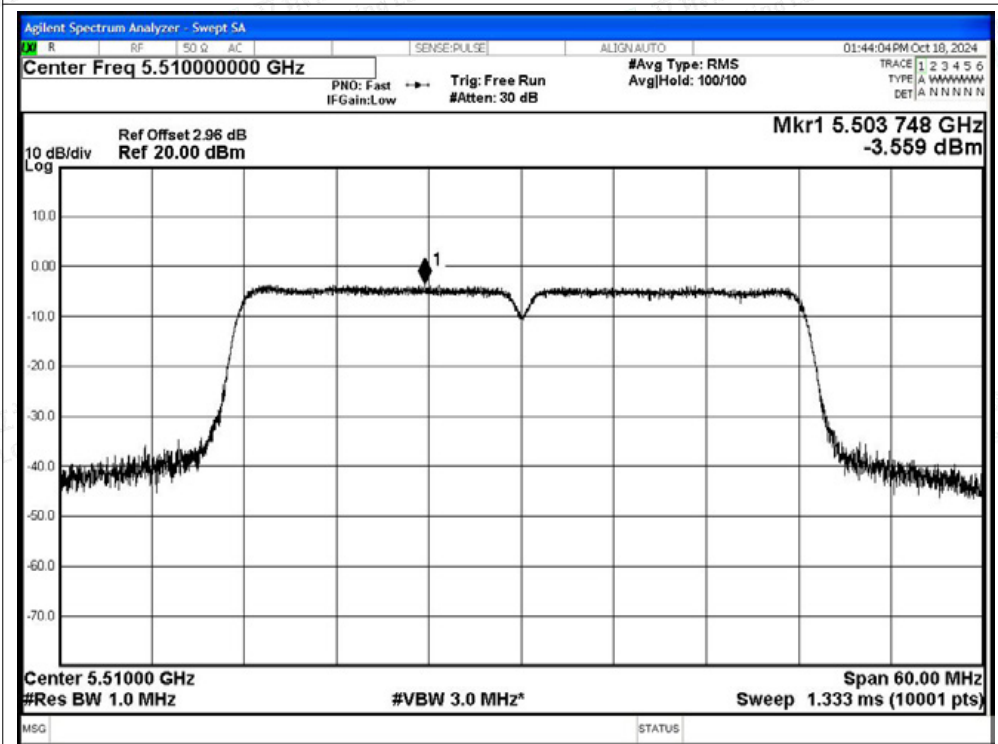


PSD NVNT ax20 5700MHz Ant0

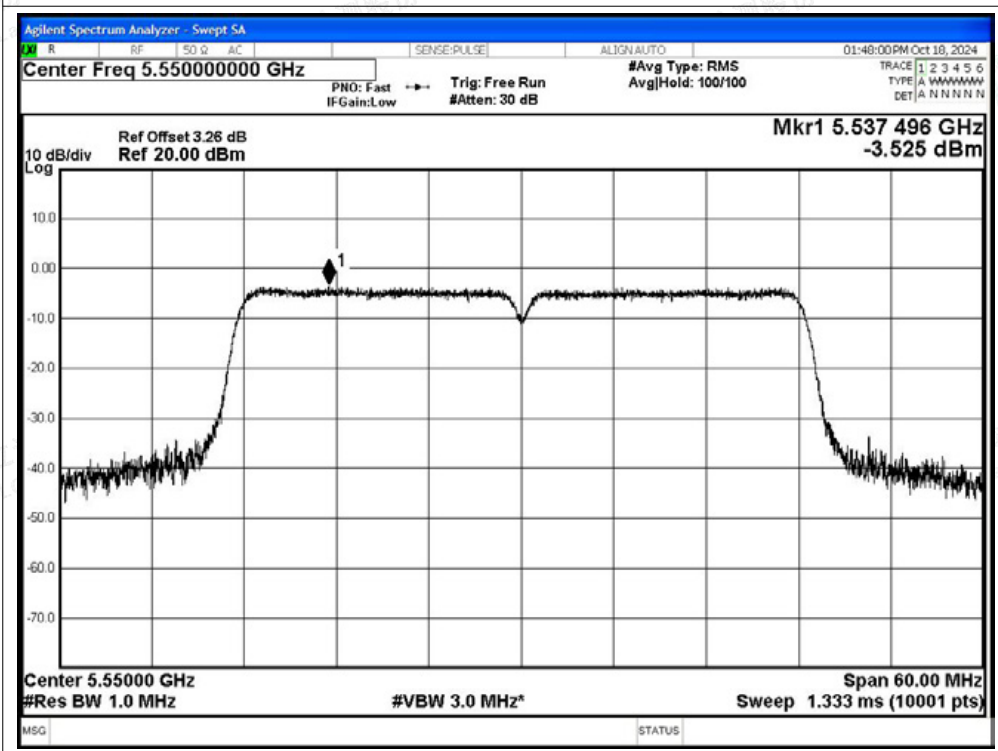


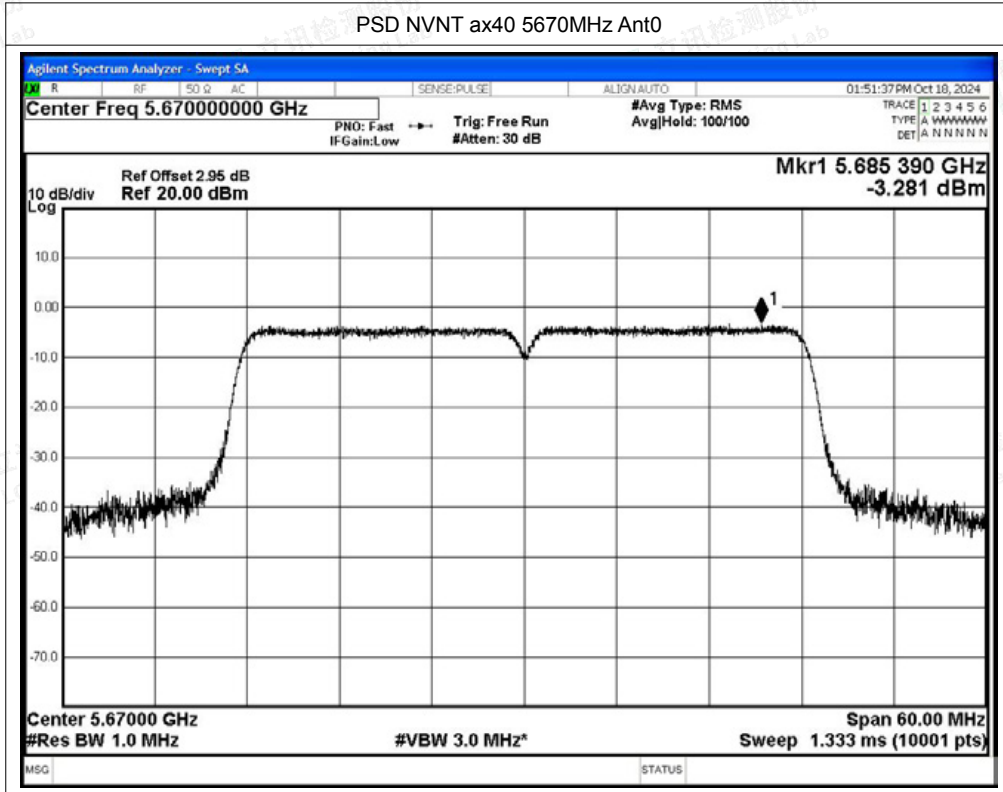


PSD NVNT ax40 5510MHz Ant0



PSD NVNT ax40 5550MHz Ant0

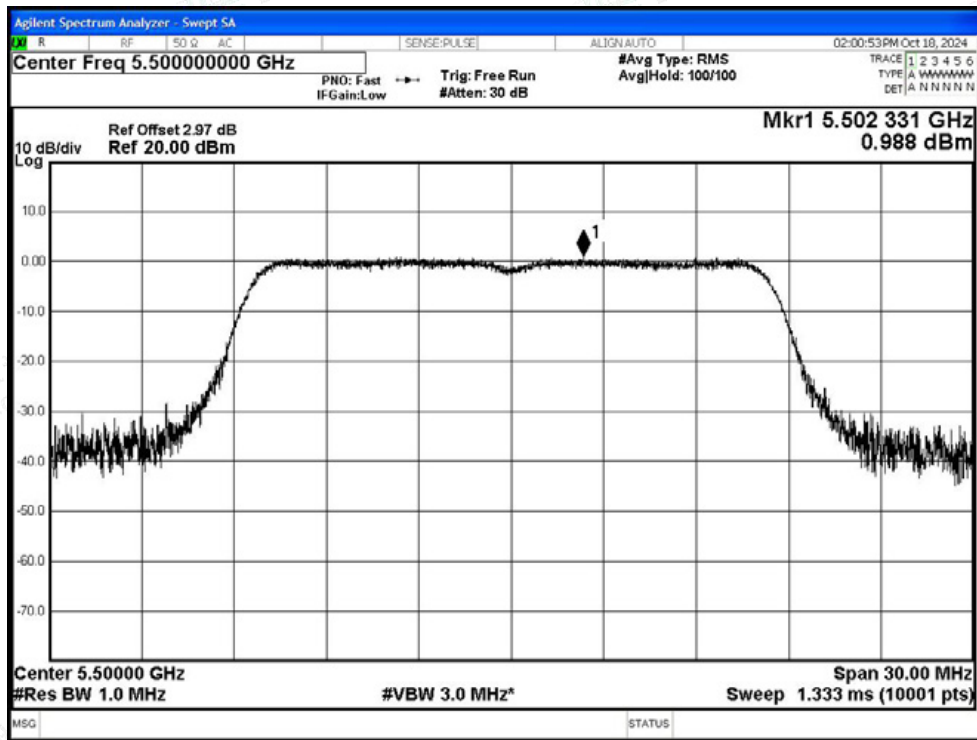




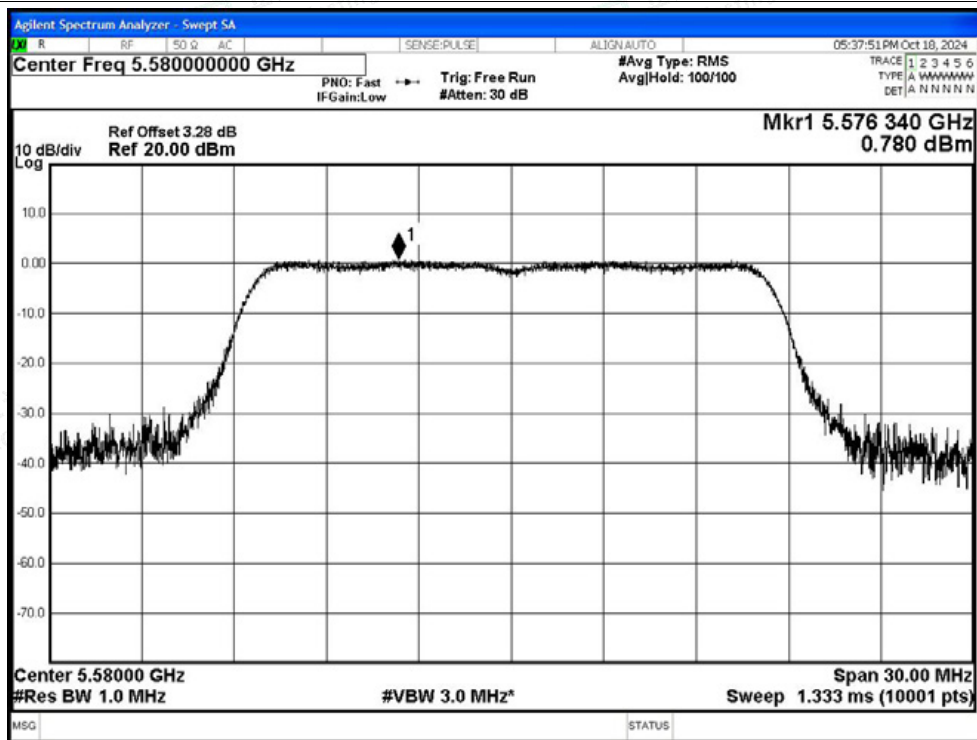


Test Graphs

PSD NVNT a 5500MHz Ant1

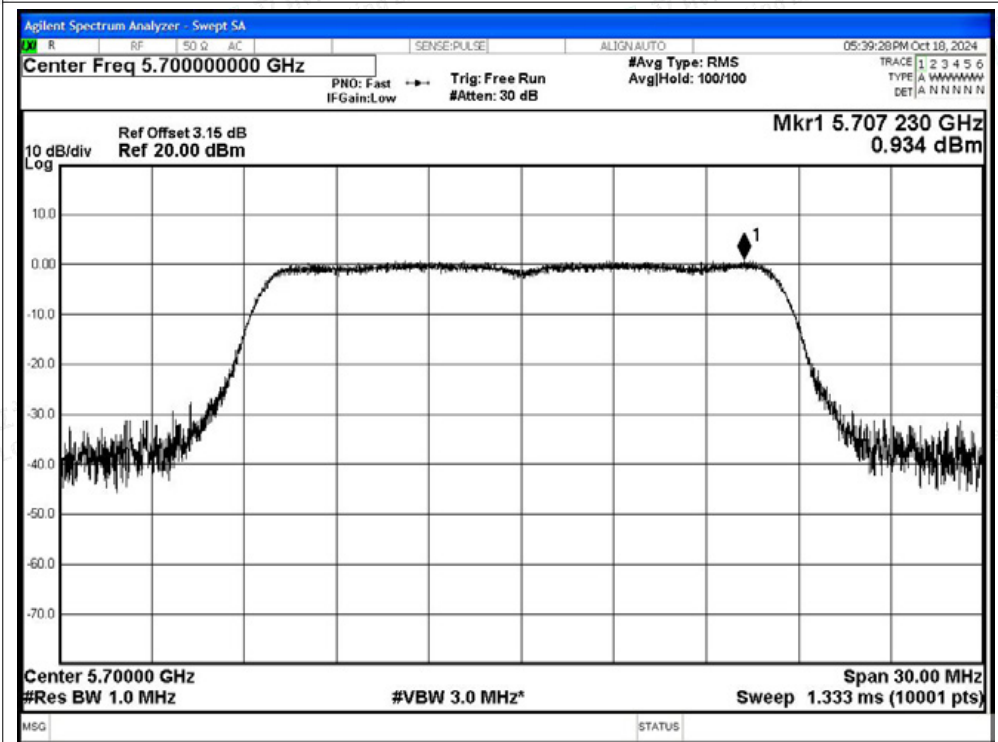


PSD NVNT a 5580MHz Ant1

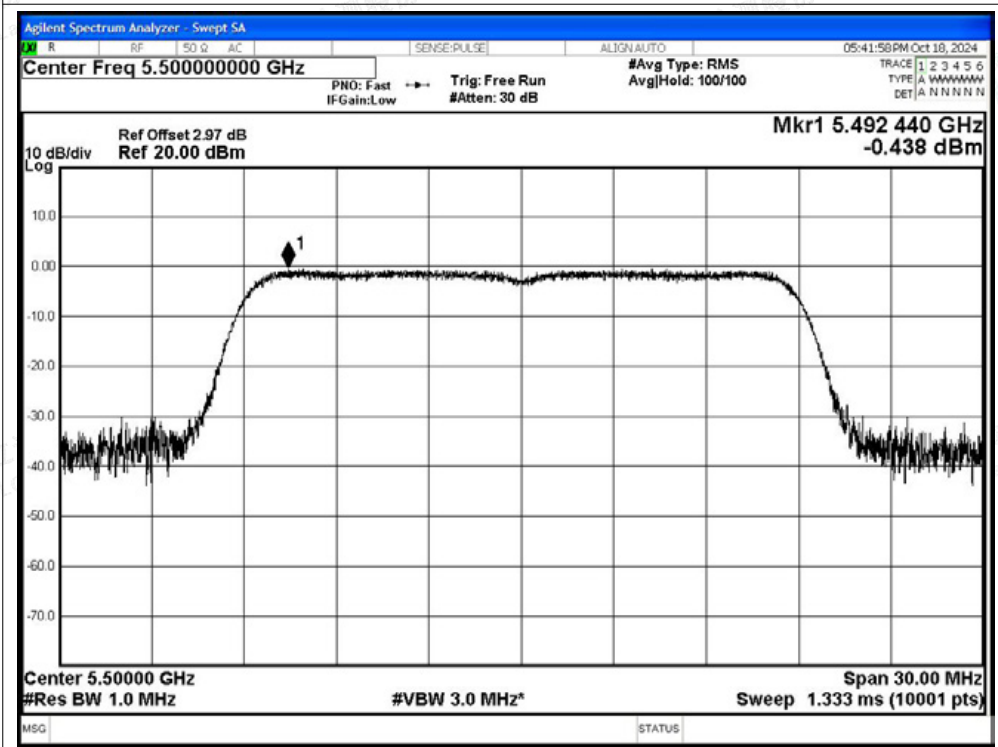




PSD NVNT a 5700MHz Ant1

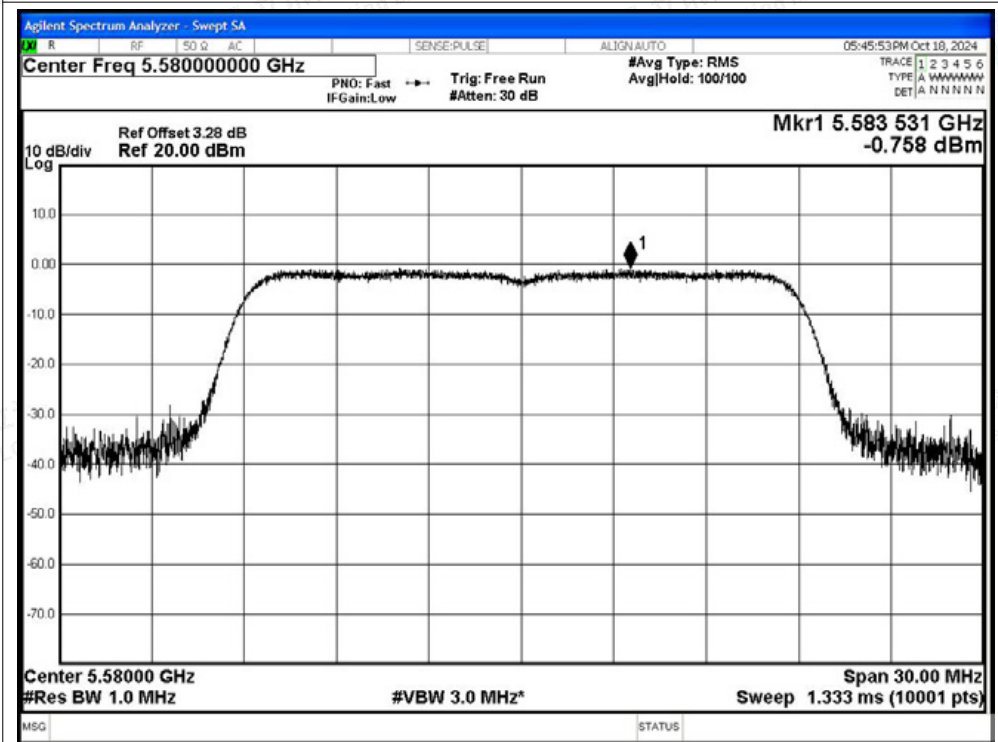


PSD NVNT n20 5500MHz Ant1





PSD NVNT n20 5580MHz Ant1



PSD NVNT n20 5700MHz Ant1

