



Appendix D

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Projector

Test Model: Q5 Max

Environmental Conditions

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



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D.1 -6dB Bandwidth

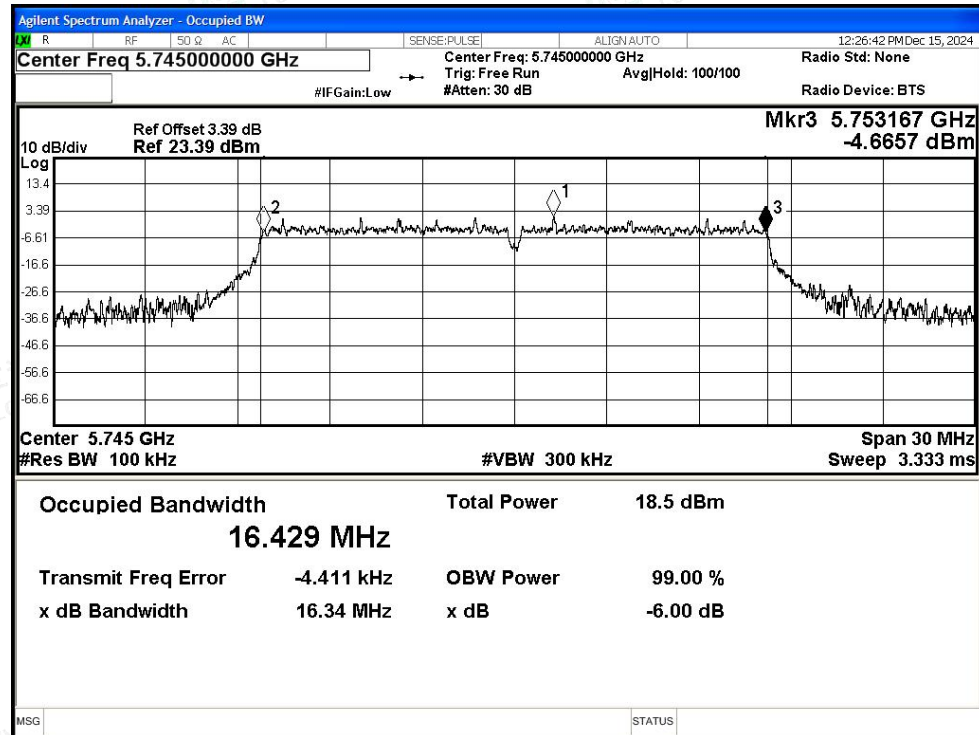
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.344	≥ 0.5	Pass
NVNT	a	5785	Ant1	16.32	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.331	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.42	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.27	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.271	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	17.15	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	17.275	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	17.276	≥ 0.5	Pass
NVNT	ax20	5745	Ant1	17.4	≥ 0.5	Pass
NVNT	ax20	5785	Ant1	17.29	≥ 0.5	Pass
NVNT	ax20	5825	Ant1	17.408	≥ 0.5	Pass



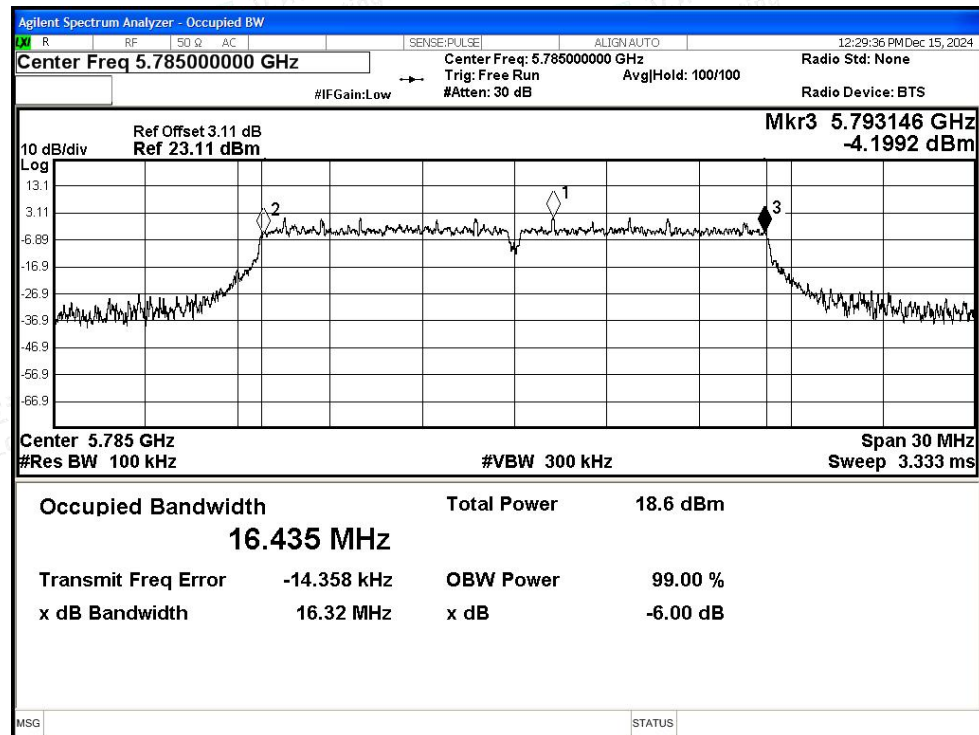


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

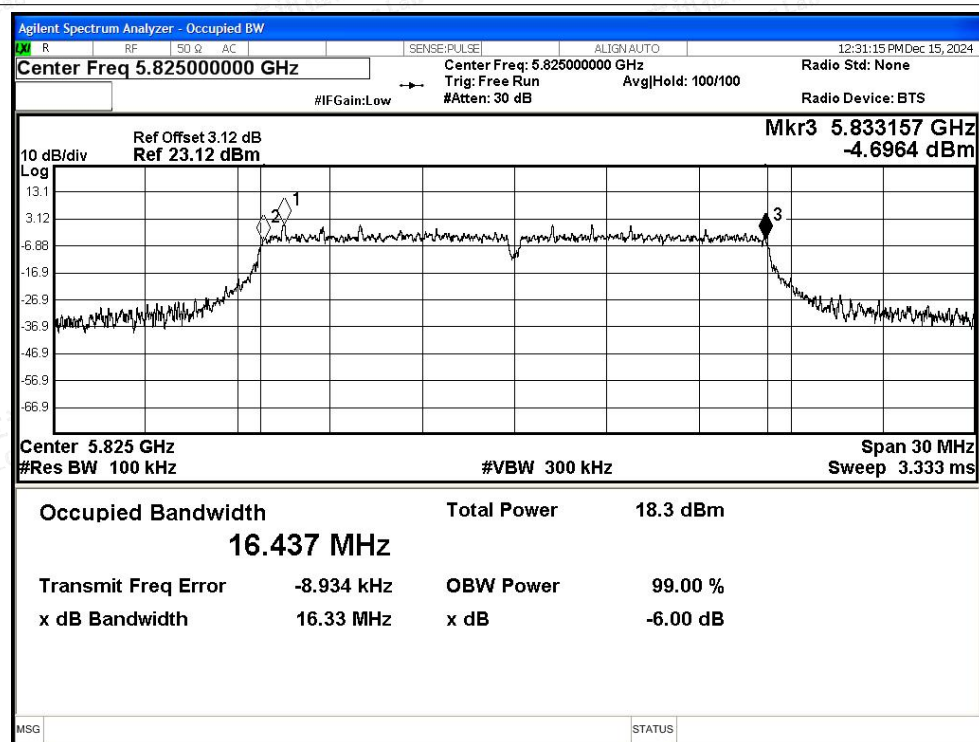


-6dB Bandwidth NVNT a 5785MHz Ant1

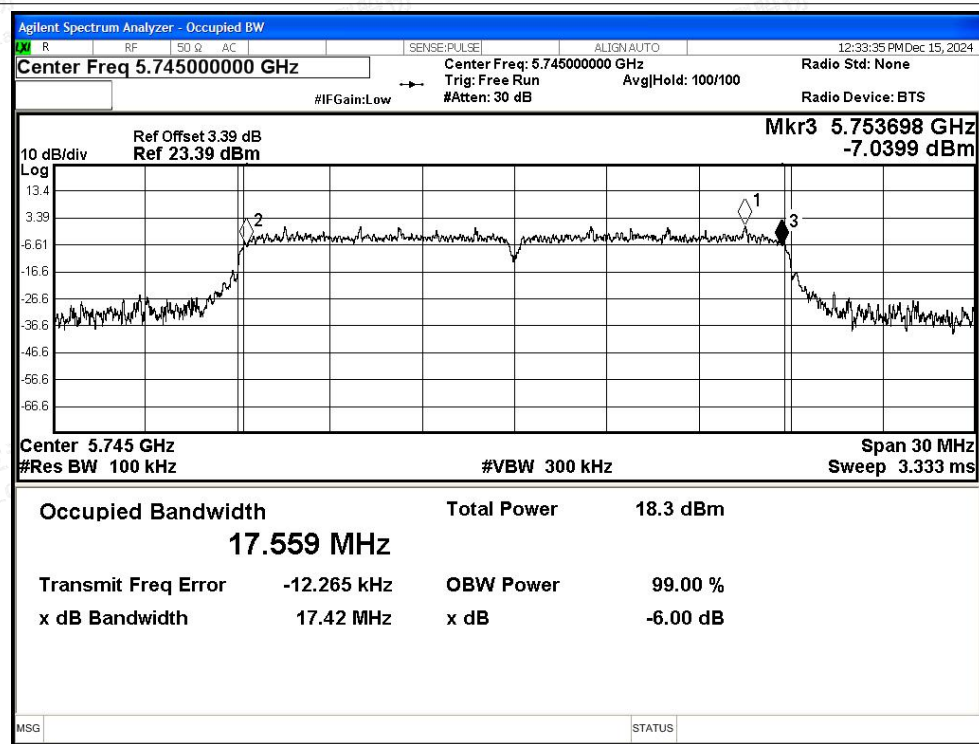




-6dB Bandwidth NVNT a 5825MHz Ant1

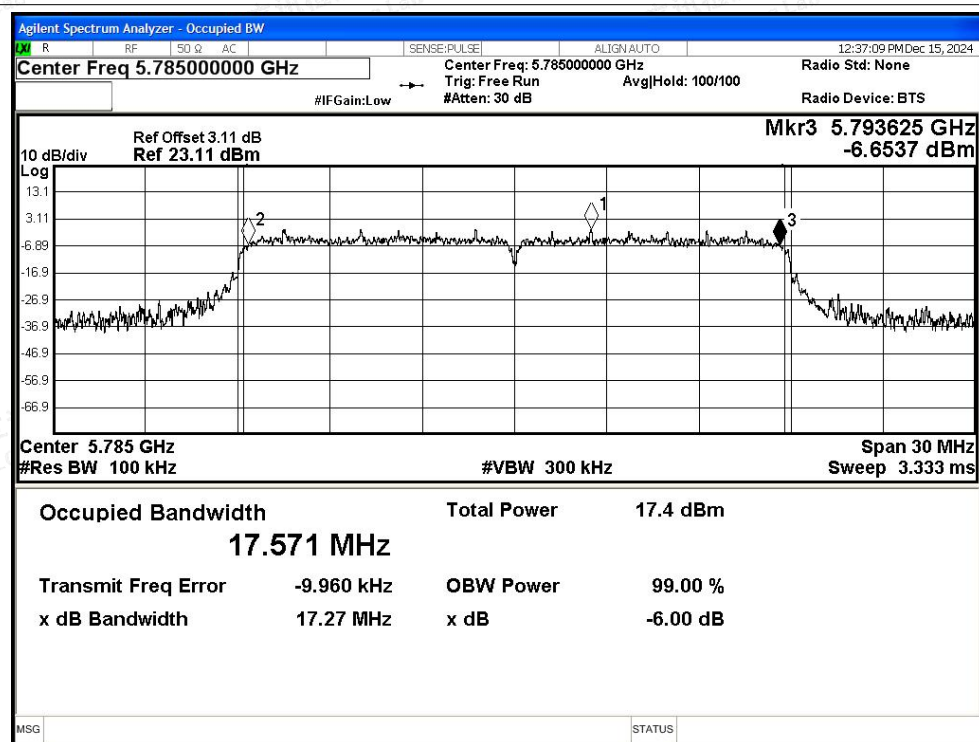


-6dB Bandwidth NVNT n20 5745MHz Ant1

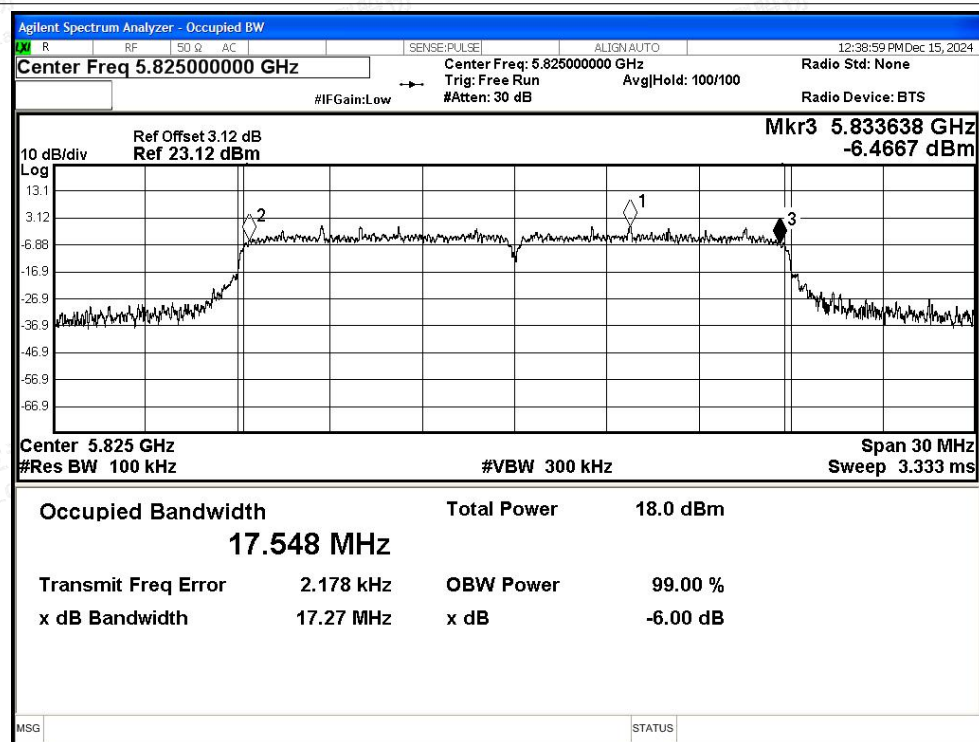


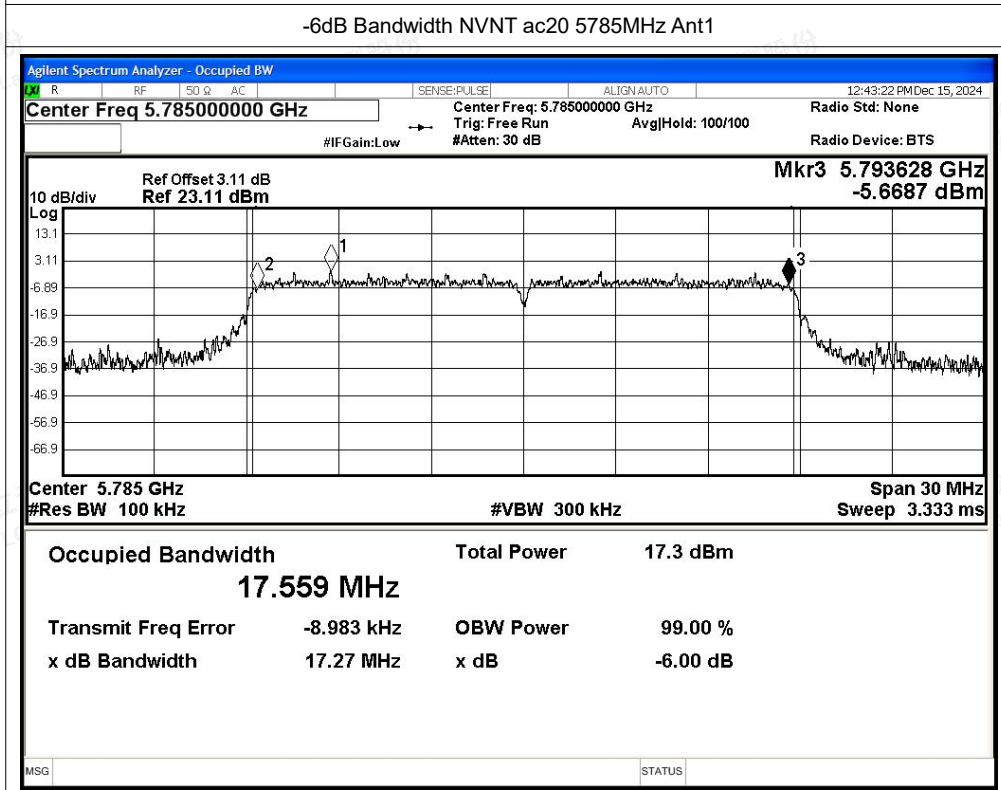
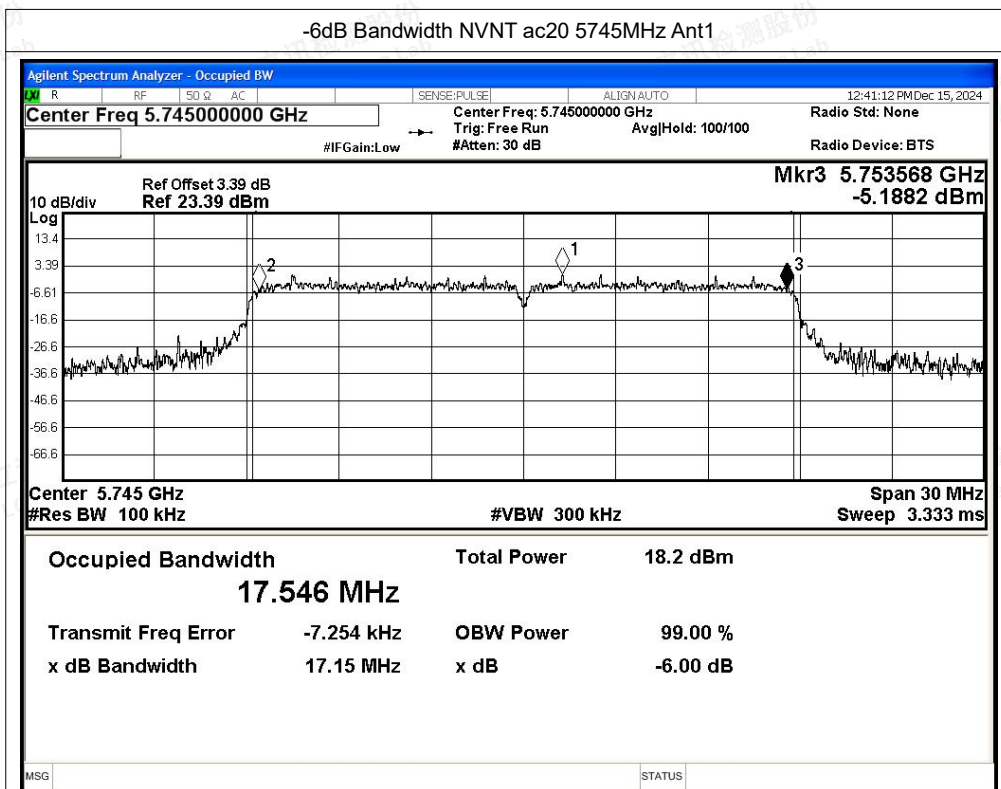


-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1





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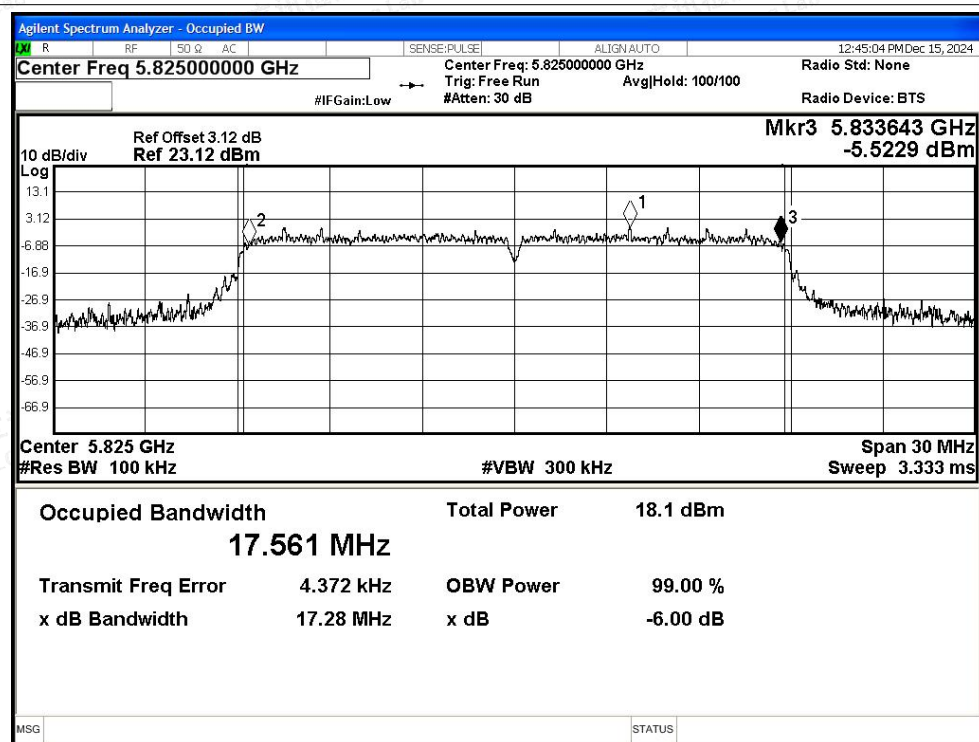
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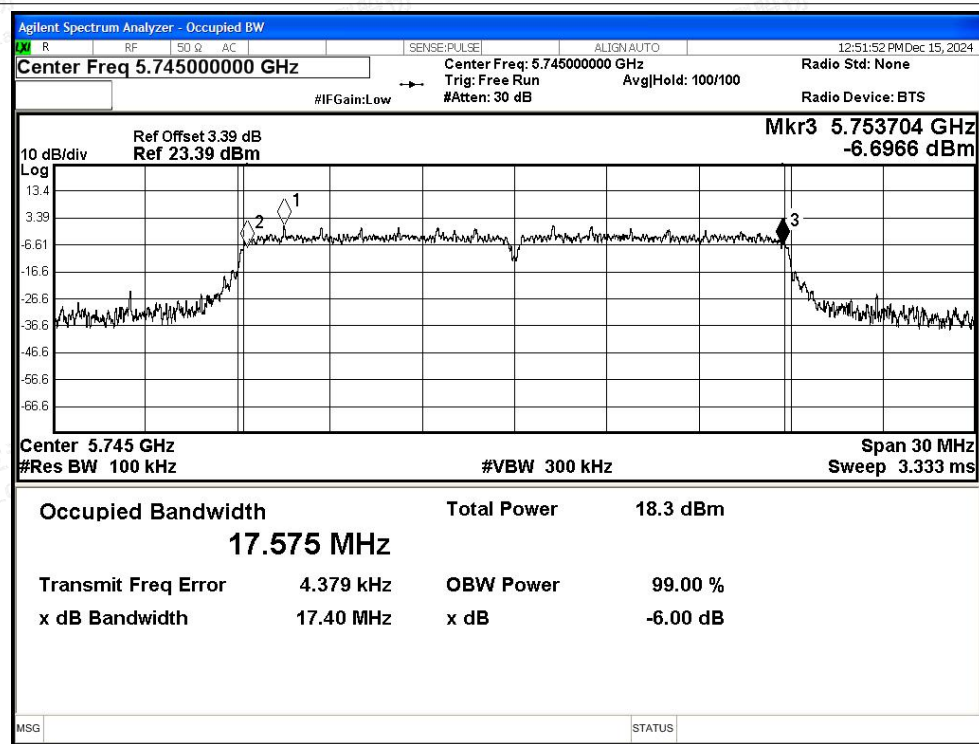
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-6dB Bandwidth NVNT ac20 5825MHz Ant1

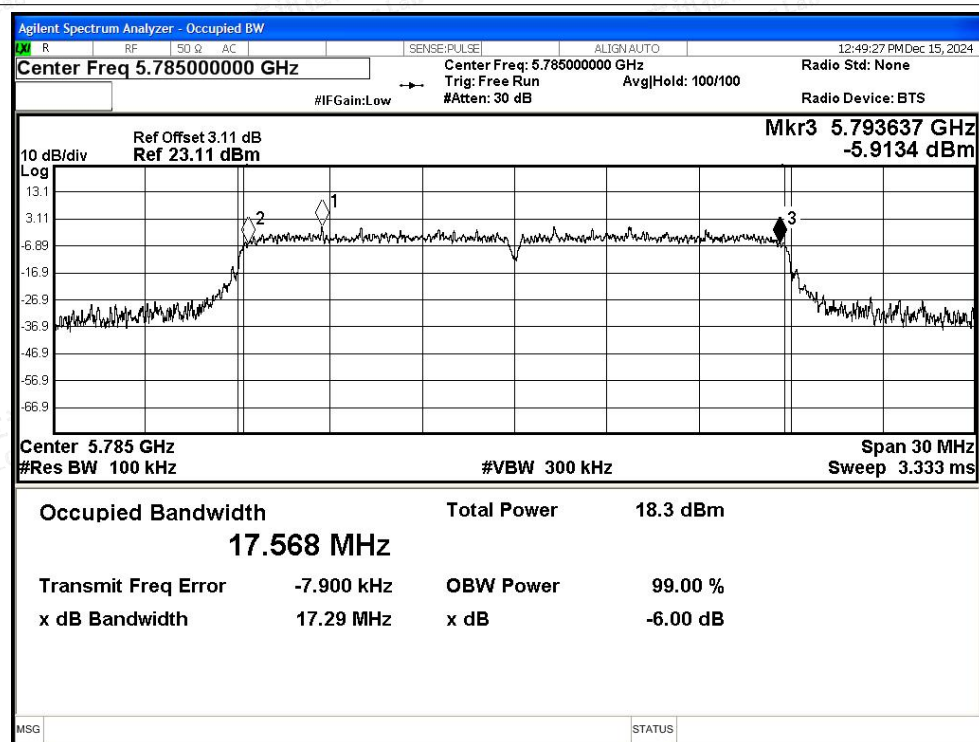


-6dB Bandwidth NVNT ax20 5745MHz Ant1

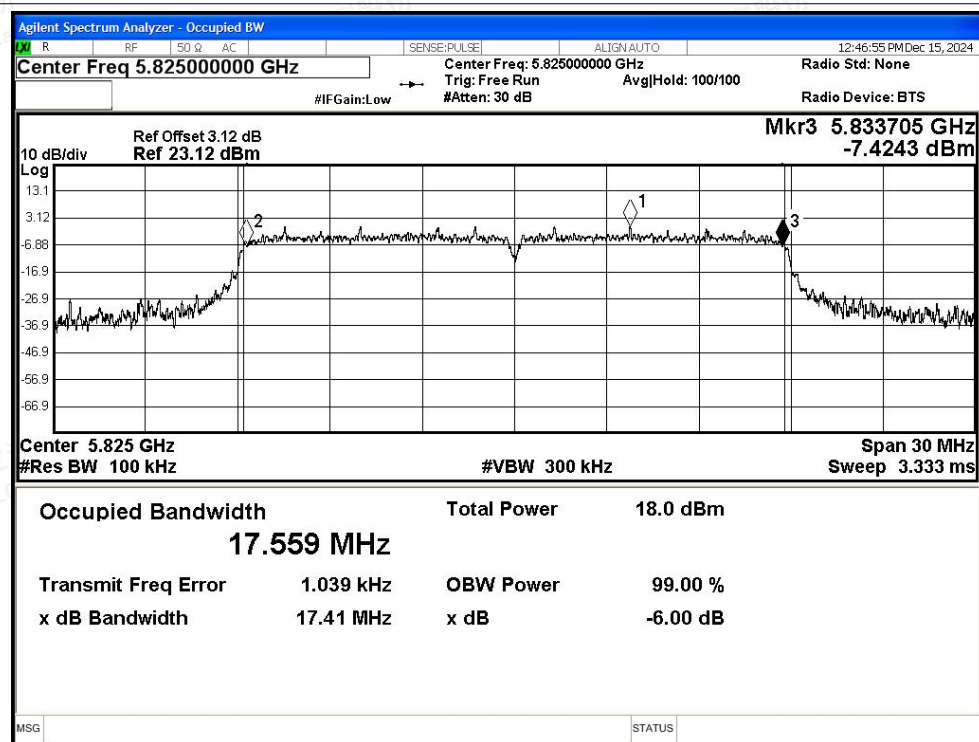




-6dB Bandwidth NVNT ax20 5785MHz Ant1



-6dB Bandwidth NVNT ax20 5825MHz Ant1





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	5745	Ant1	12.52	0.24	12.76	30	Pass
NVNT	a	5785	Ant1	12.57	0.24	12.81	30	Pass
NVNT	a	5825	Ant1	12.3	0.24	12.54	30	Pass
NVNT	n20	5745	Ant1	11.91	0.28	12.19	30	Pass
NVNT	n20	5785	Ant1	10.94	0.28	11.22	30	Pass
NVNT	n20	5825	Ant1	11.61	0.28	11.89	30	Pass
NVNT	ac20	5745	Ant1	11.85	0.28	12.13	30	Pass
NVNT	ac20	5785	Ant1	10.95	0.28	11.23	30	Pass
NVNT	ac20	5825	Ant1	11.62	0.28	11.90	30	Pass
NVNT	ax20	5745	Ant1	11.85	0.28	12.13	30	Pass
NVNT	ax20	5785	Ant1	11.92	0.28	12.20	30	Pass
NVNT	ax20	5825	Ant1	11.59	0.28	11.87	30	Pass





D.3 Maximum Power Spectral Density Level

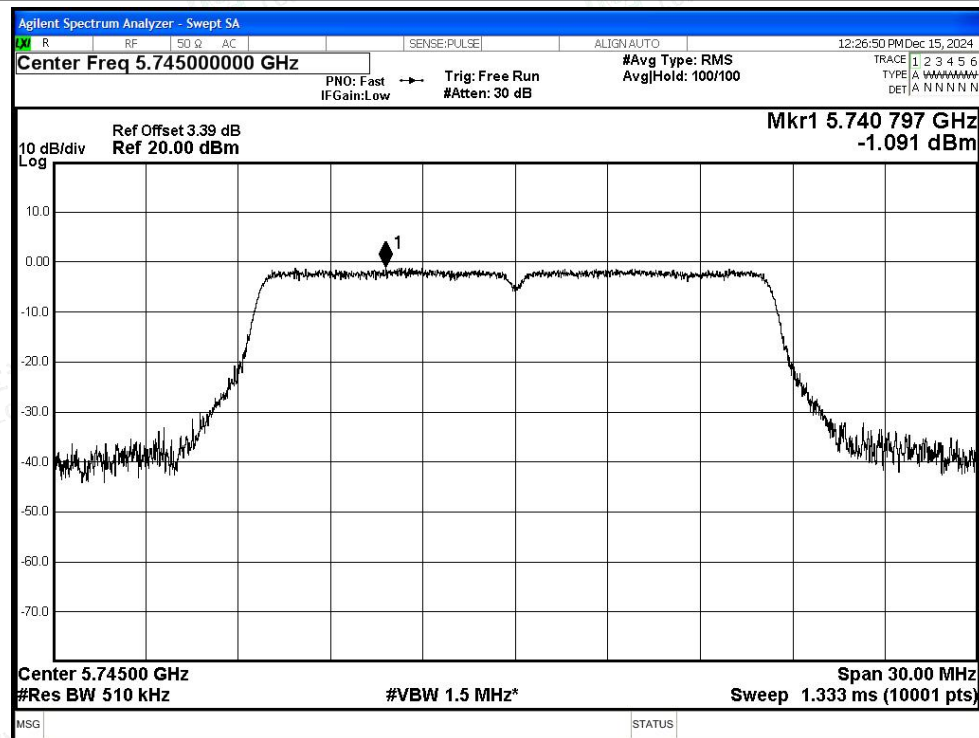
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-1.09	0.24	-0.85	30	Pass
NVNT	a	5785	Ant1	-1.11	0.24	-0.87	30	Pass
NVNT	a	5825	Ant1	-1.34	0.24	-1.10	30	Pass
NVNT	n20	5745	Ant1	-1.79	0.28	-1.51	30	Pass
NVNT	n20	5785	Ant1	-2.87	0.28	-2.59	30	Pass
NVNT	n20	5825	Ant1	-2.16	0.28	-1.88	30	Pass
NVNT	ac20	5745	Ant1	-2.04	0.28	-1.76	30	Pass
NVNT	ac20	5785	Ant1	-2.55	0.28	-2.27	30	Pass
NVNT	ac20	5825	Ant1	-1.9	0.28	-1.62	30	Pass
NVNT	ax20	5745	Ant1	-1.74	0.28	-1.46	30	Pass
NVNT	ax20	5785	Ant1	-1.93	0.28	-1.65	30	Pass
NVNT	ax20	5825	Ant1	-2.26	0.28	-1.98	30	Pass



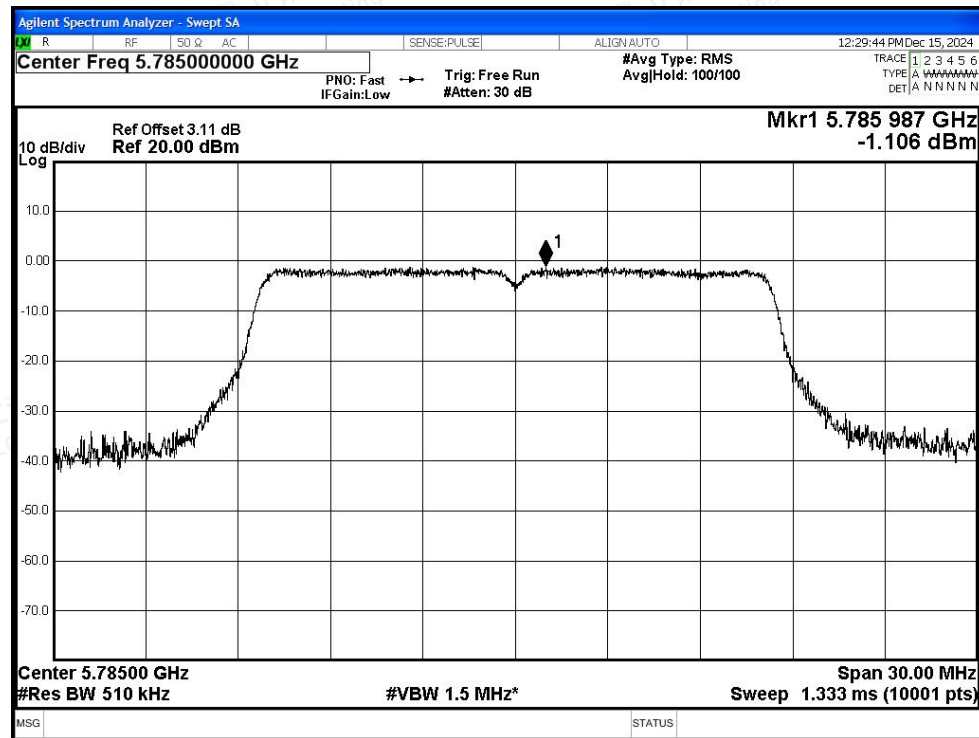


Test Graphs

PSD NVNT a 5745MHz Ant1

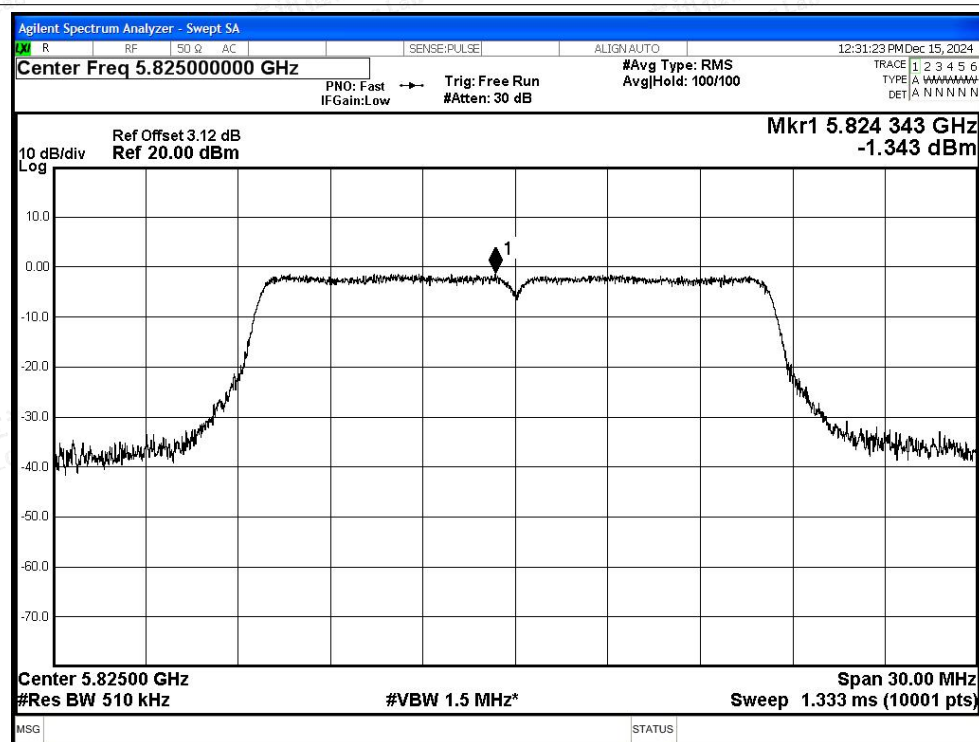


PSD NVNT a 5785MHz Ant1

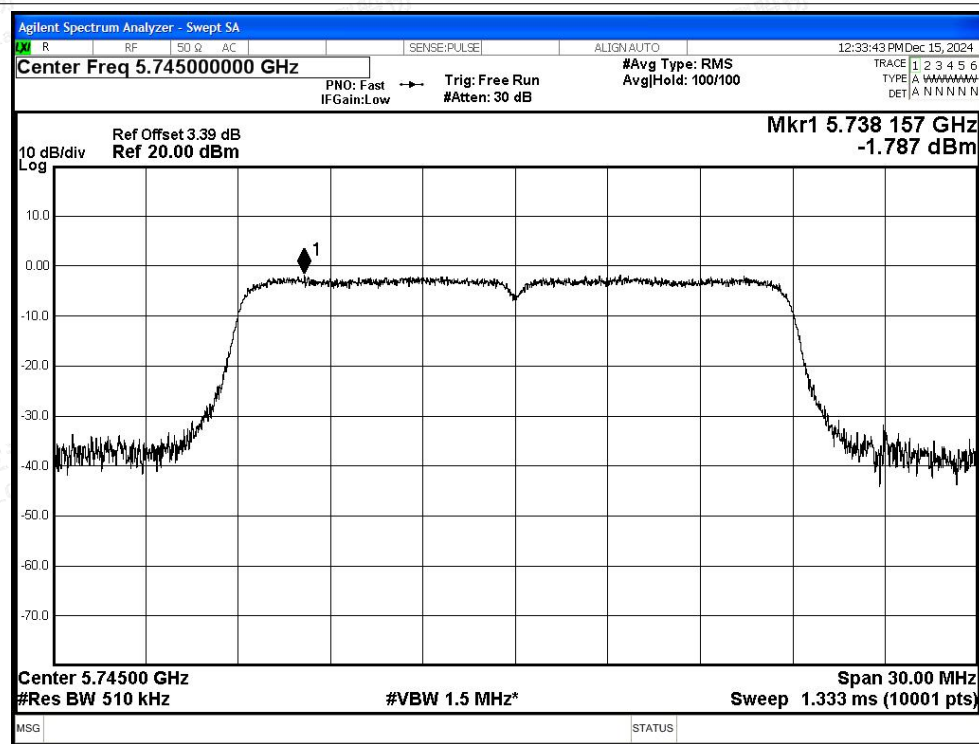


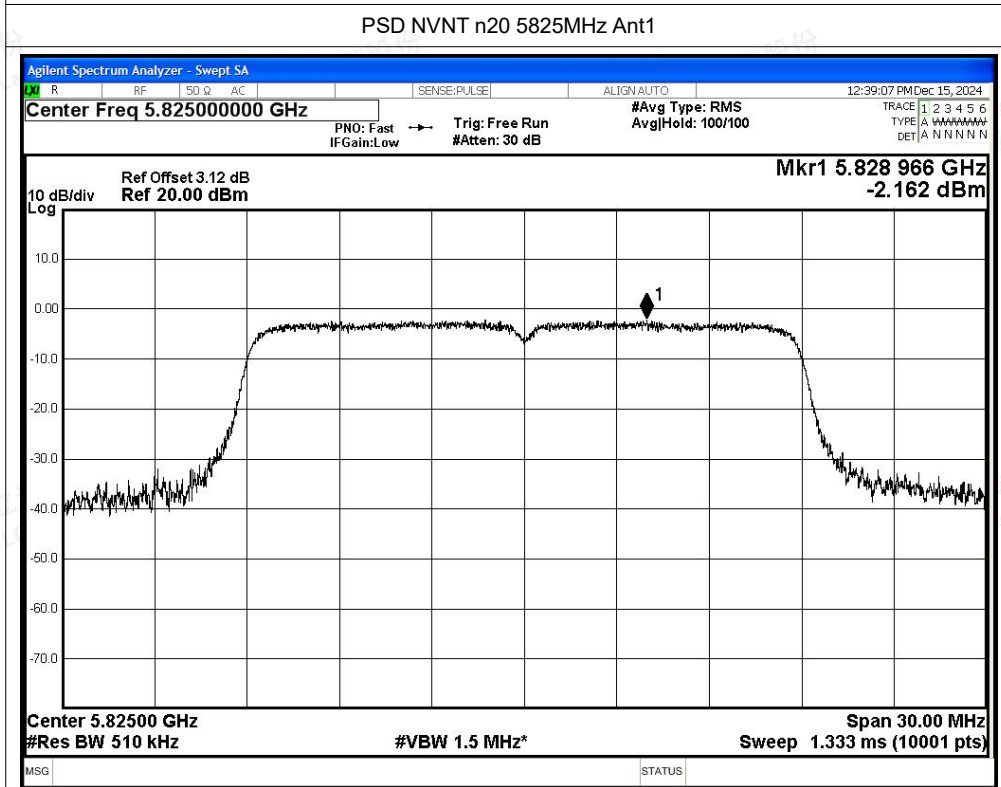
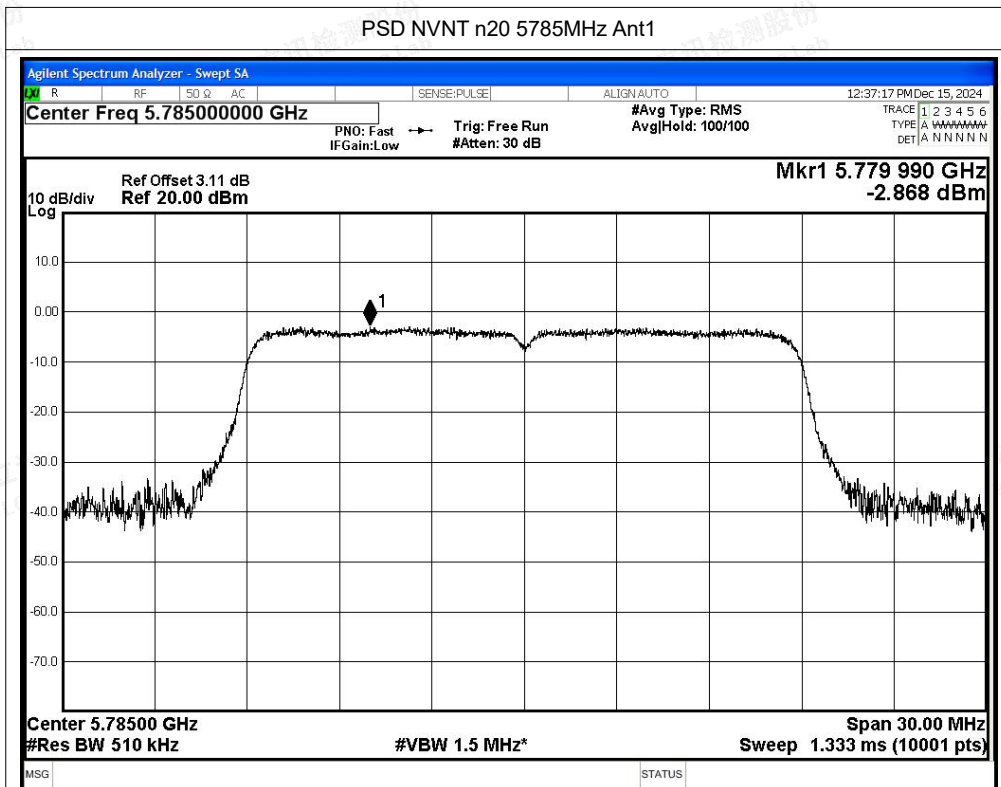


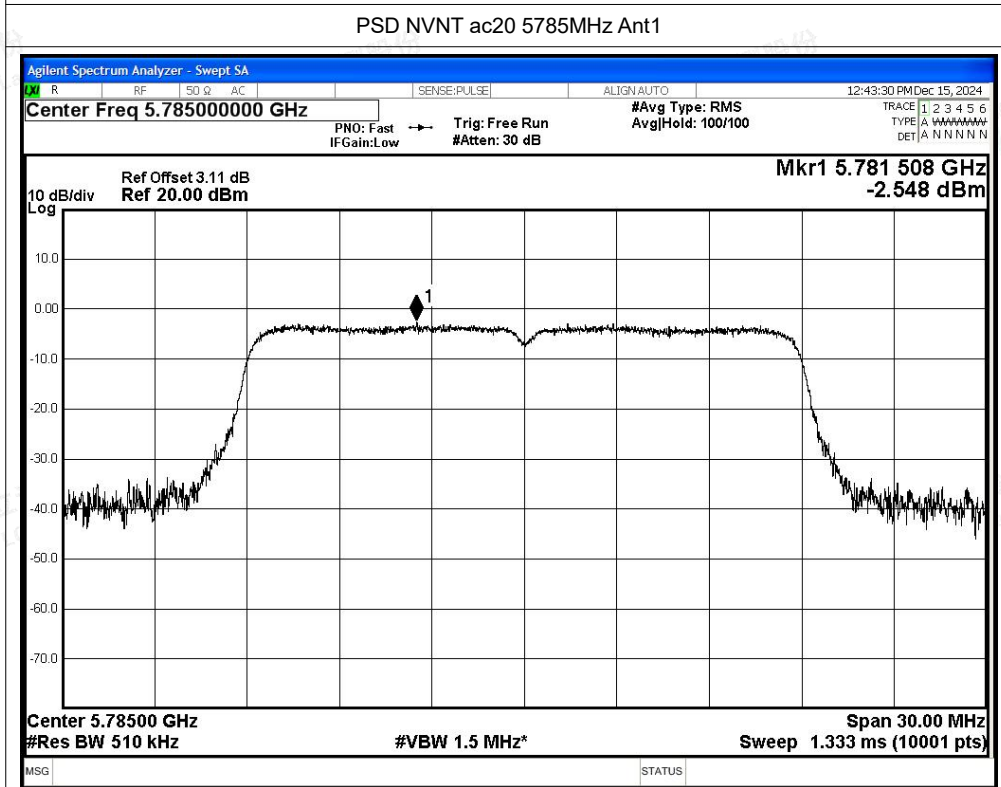
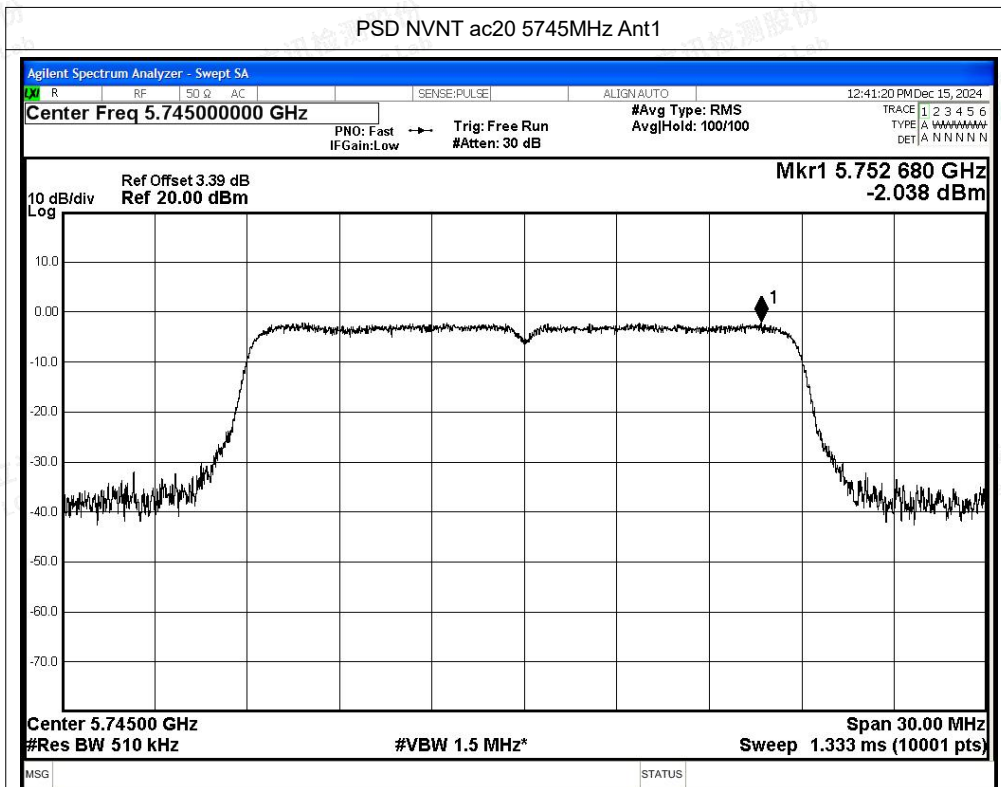
PSD NVNT a 5825MHz Ant1

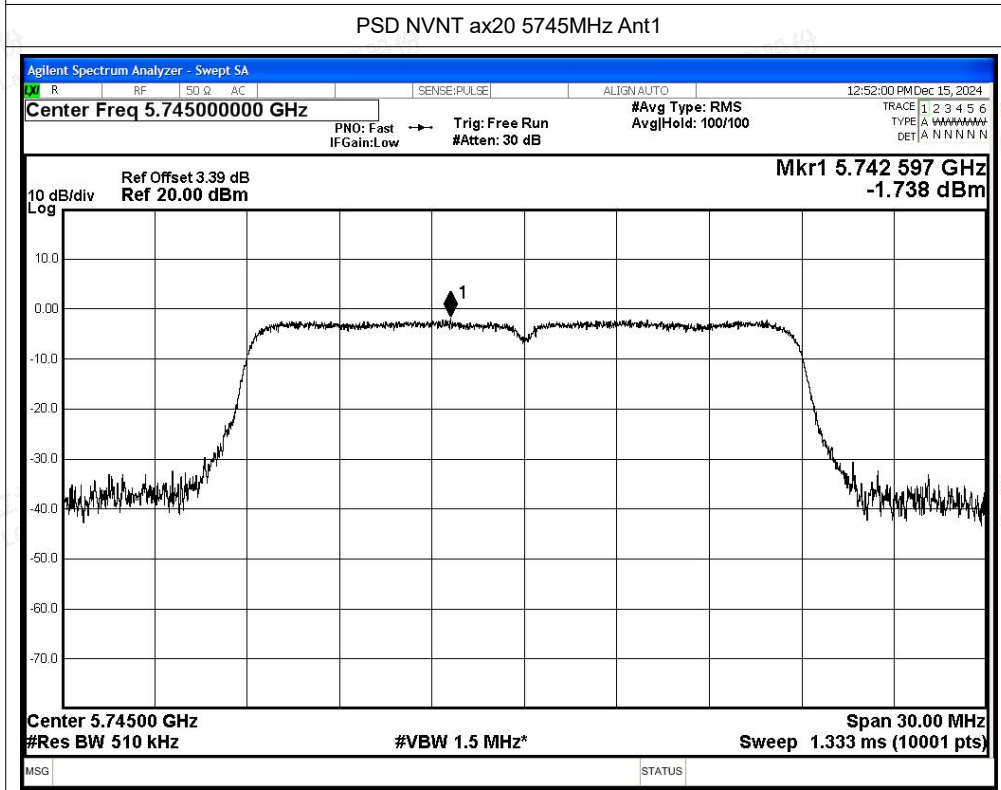
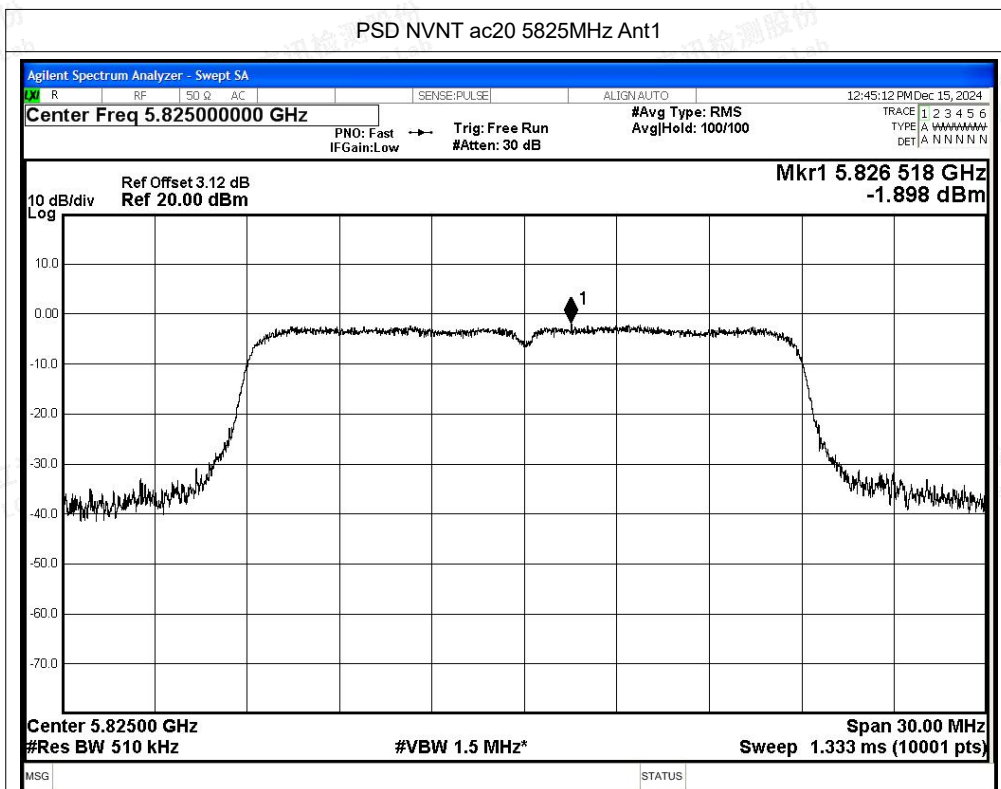


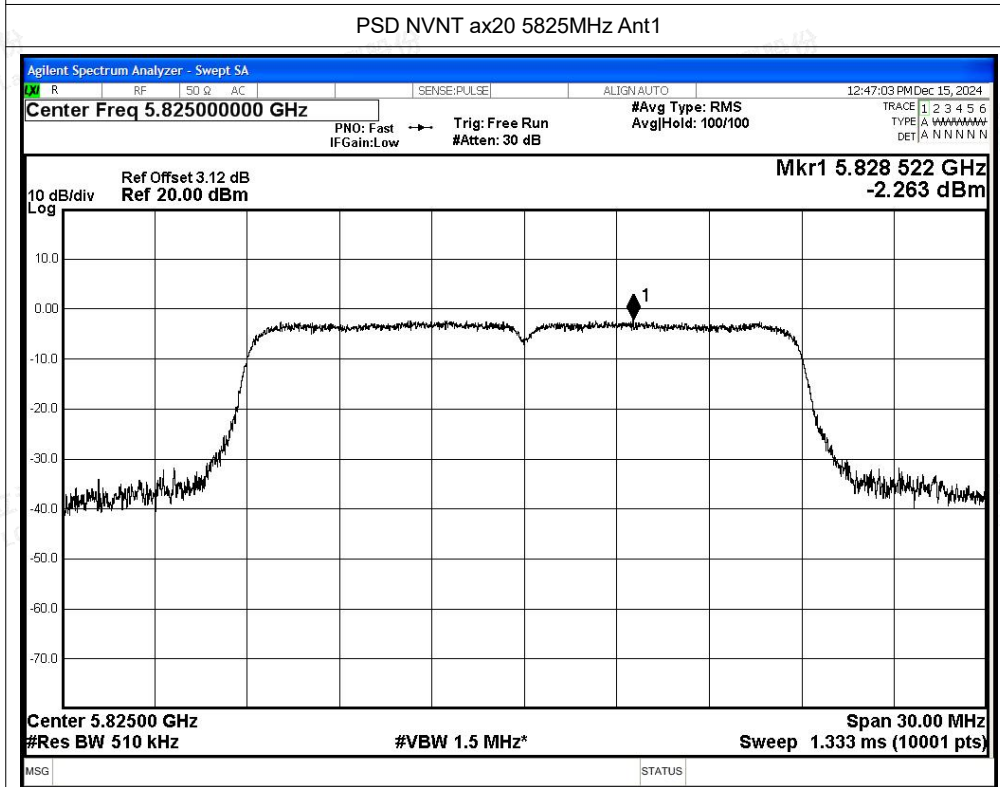
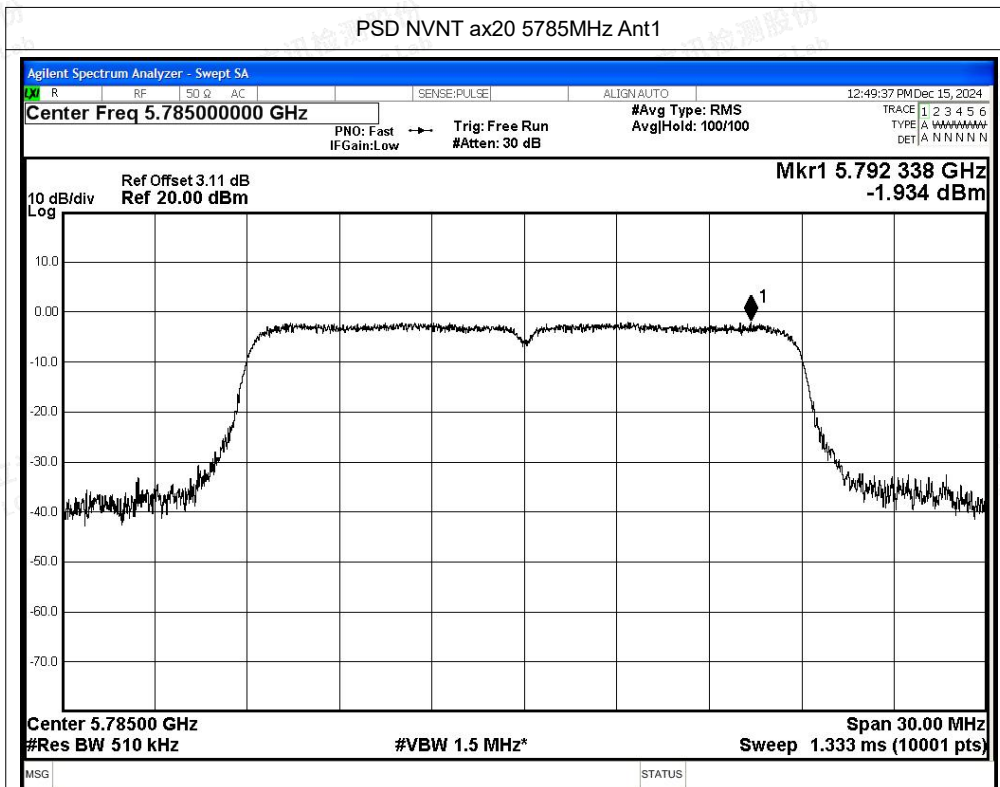
PSD NVNT n20 5745MHz Ant1













D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	5650	-49.36	3.89	-	-45.47	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-57.41	3.89	0.24	-53.28	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-49.64	3.89	-	-45.75	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-56.99	3.89	0.24	-52.86	Average	10	Pass
NVNT	a	5745	Ant1	5720	-41.47	3.89	-	-37.58	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-54.66	3.89	0.24	-50.53	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-34.9	3.89	-	-31.01	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-52.64	3.89	0.24	-48.51	Average	27	Pass
NVNT	a	5825	Ant1	5850	-33.21	3.89	-	-29.32	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-48.6	3.89	0.24	-44.47	Average	27	Pass
NVNT	a	5825	Ant1	5855	-38.6	3.89	-	-34.71	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-50.62	3.89	0.24	-46.49	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-47.39	3.89	-	-43.50	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-55.41	3.89	0.24	-51.28	Average	10	Pass
NVNT	a	5825	Ant1	5925	-48.76	3.89	-	-44.87	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-56.13	3.89	0.24	-52.00	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-50.48	3.89	-	-46.59	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-57.61	3.89	0.28	-53.44	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-49.41	3.89	-	-45.52	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-57.08	3.89	0.28	-52.91	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-39.27	3.89	-	-35.38	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-53.38	3.89	0.28	-49.21	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-32.83	3.89	-	-28.94	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-49	3.89	0.28	-44.83	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-32.32	3.89	-	-28.43	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-46.4	3.89	0.28	-42.23	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-38.87	3.89	-	-34.98	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-50.37	3.89	0.28	-46.20	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-48	3.89	-	-44.11	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-55.55	3.89	0.28	-51.38	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-49.22	3.89	-	-45.33	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-56.9	3.89	0.28	-52.73	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-49.93	3.89	-	-46.04	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-57.63	3.89	0.28	-53.46	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-49.99	3.89	-	-46.10	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-57.44	3.89	0.28	-53.27	Average	10	Pass





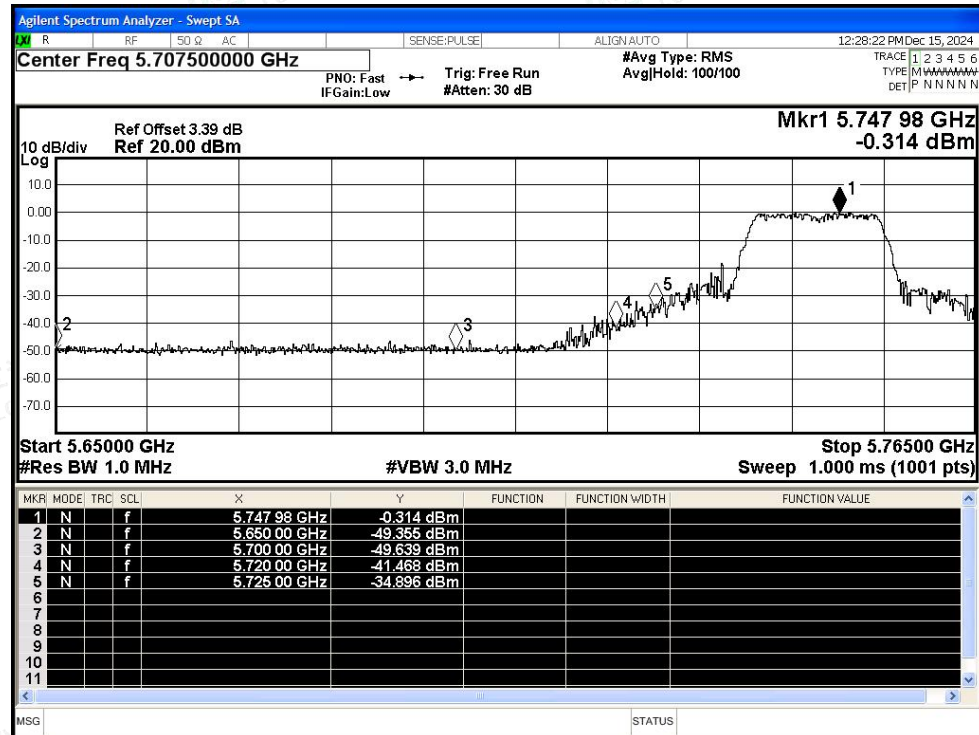
NVNT	ac20	5745	Ant1	5720	-42.23	3.89	-	-38.34	Peak	15.6	Pass
NVNT	ac20	5745	Ant1	5720	-52.93	3.89	0.28	-48.76	Average	15.6	Pass
NVNT	ac20	5745	Ant1	5725	-28.12	3.89	-	-24.23	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-49.97	3.89	0.28	-45.80	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-28.5	3.89	-	-24.61	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-47.12	3.89	0.28	-42.95	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-38.14	3.89	-	-34.25	Peak	15.6	Pass
NVNT	ac20	5825	Ant1	5855	-51.55	3.89	0.28	-47.38	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-47.18	3.89	-	-43.29	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-55.56	3.89	0.28	-51.39	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-48.57	3.89	-	-44.68	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-56.79	3.89	0.28	-52.62	Average	-27	Pass
NVNT	ax20	5745	Ant1	5650	-49.94	3.89	-	-46.05	Peak	-27	Pass
NVNT	ax20	5745	Ant1	5650	-57.84	3.89	0.28	-53.67	Average	-27	Pass
NVNT	ax20	5745	Ant1	5700	-49.73	3.89	-	-45.84	Peak	10	Pass
NVNT	ax20	5745	Ant1	5700	-56.77	3.89	0.28	-52.60	Average	10	Pass
NVNT	ax20	5745	Ant1	5720	-38.32	3.89	-	-34.43	Peak	15.6	Pass
NVNT	ax20	5745	Ant1	5720	-53.18	3.89	0.28	-49.01	Average	15.6	Pass
NVNT	ax20	5745	Ant1	5725	-33.58	3.89	-	-29.69	Peak	27	Pass
NVNT	ax20	5745	Ant1	5725	-49.78	3.89	0.28	-45.61	Average	27	Pass
NVNT	ax20	5825	Ant1	5850	-31.93	3.89	-	-28.04	Peak	27	Pass
NVNT	ax20	5825	Ant1	5850	-46.3	3.89	0.28	-42.13	Average	27	Pass
NVNT	ax20	5825	Ant1	5855	-36.7	3.89	-	-32.81	Peak	15.6	Pass
NVNT	ax20	5825	Ant1	5855	-51.6	3.89	0.28	-47.43	Average	15.6	Pass
NVNT	ax20	5825	Ant1	5875	-47.13	3.89	-	-43.24	Peak	10	Pass
NVNT	ax20	5825	Ant1	5875	-55.9	3.89	0.28	-51.73	Average	10	Pass
NVNT	ax20	5825	Ant1	5925	-45.59	3.89	-	-41.70	Peak	-27	Pass
NVNT	ax20	5825	Ant1	5925	-56.53	3.89	0.28	-52.36	Average	-27	Pass



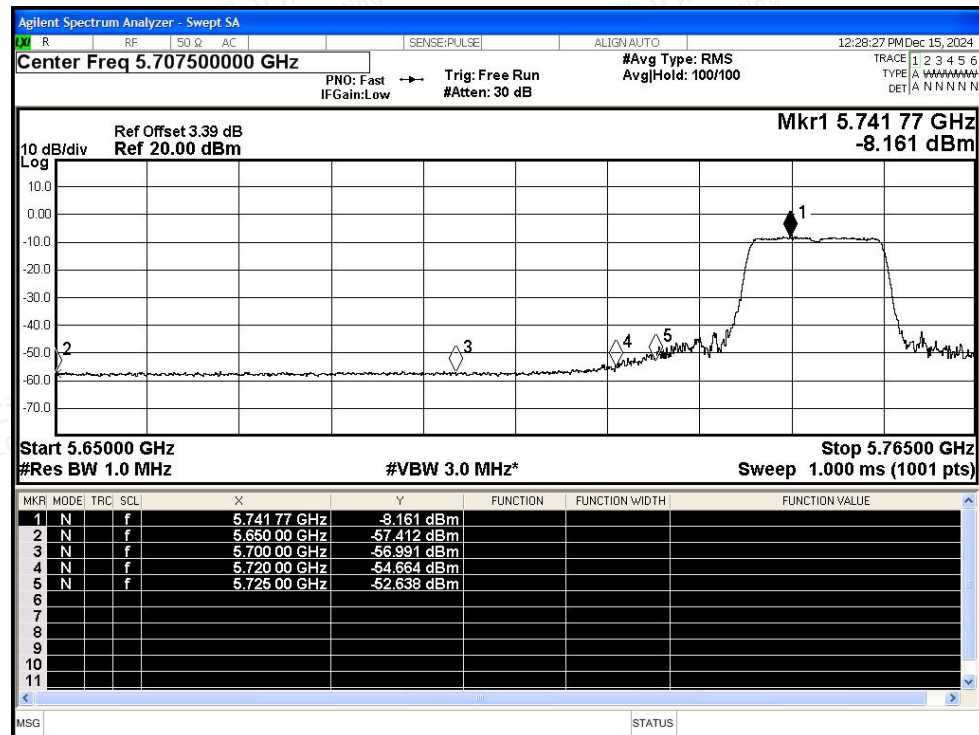


Test Graphs

Restrict Band NVNT a 5745MHz Ant1 Peak



Restrict Band NVNT a 5745MHz Ant1 Average



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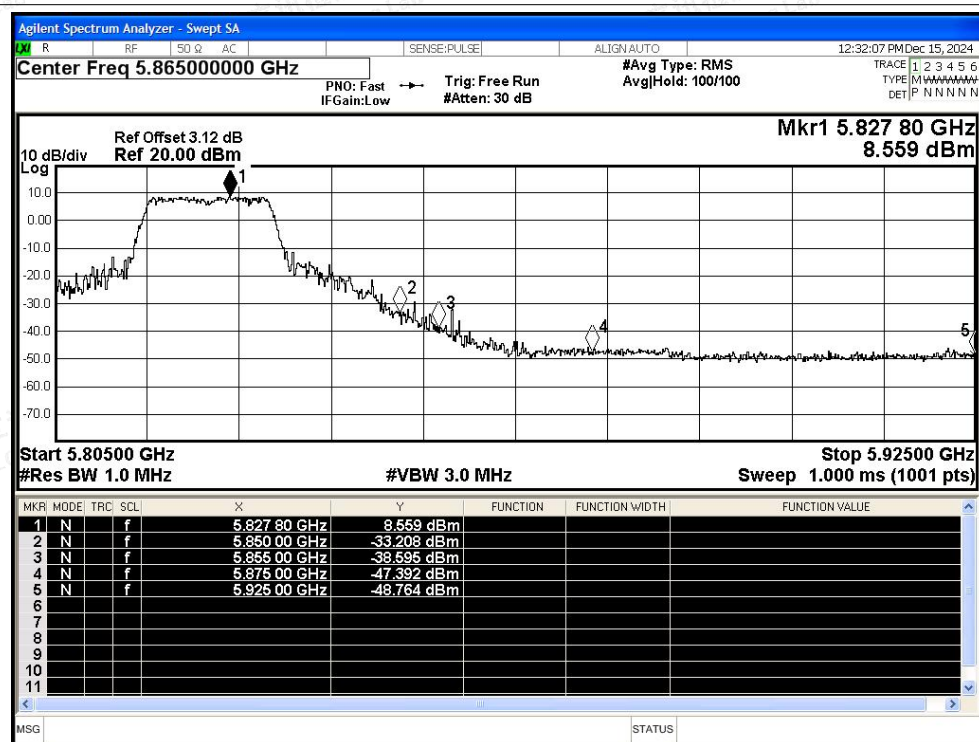
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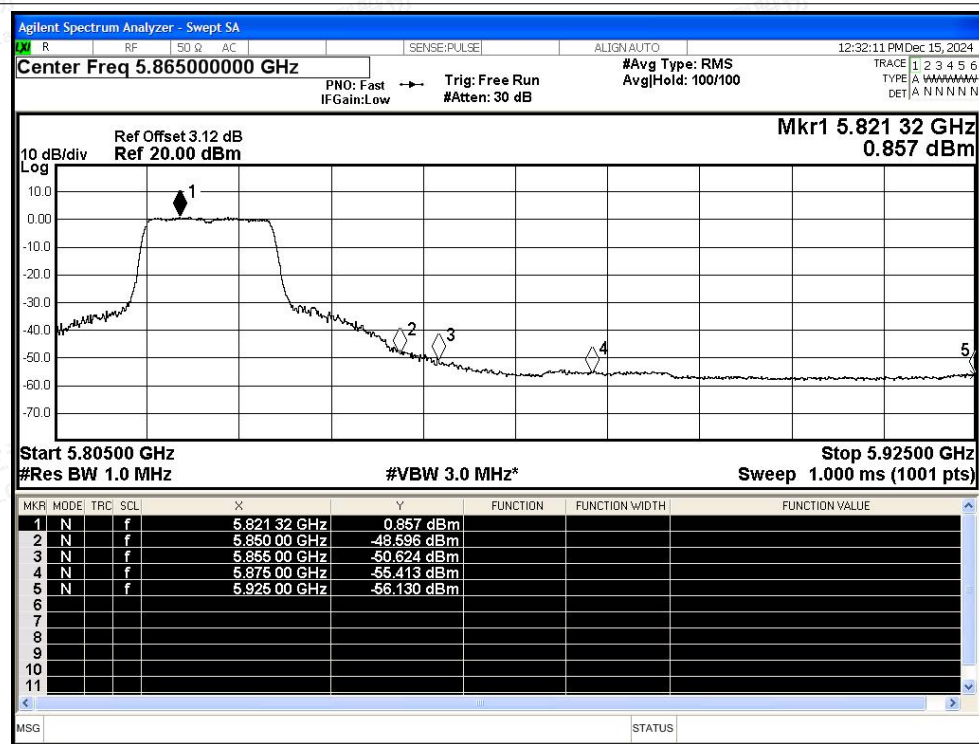
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Restrict Band NVNT a 5825MHz Ant1 Peak

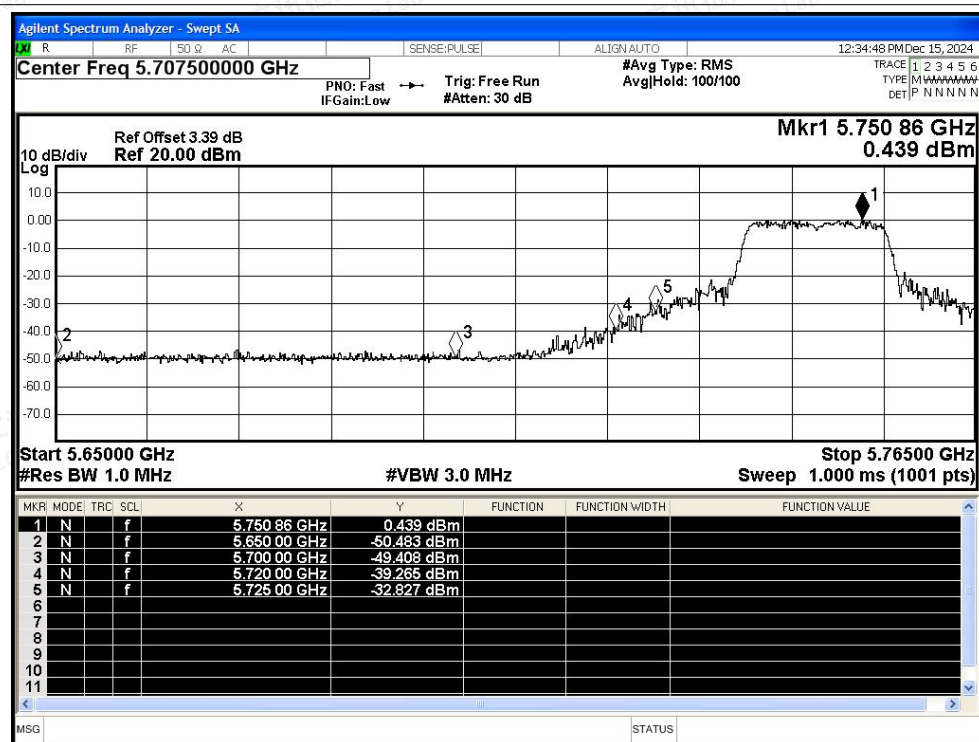


Restrict Band NVNT a 5825MHz Ant1 Average

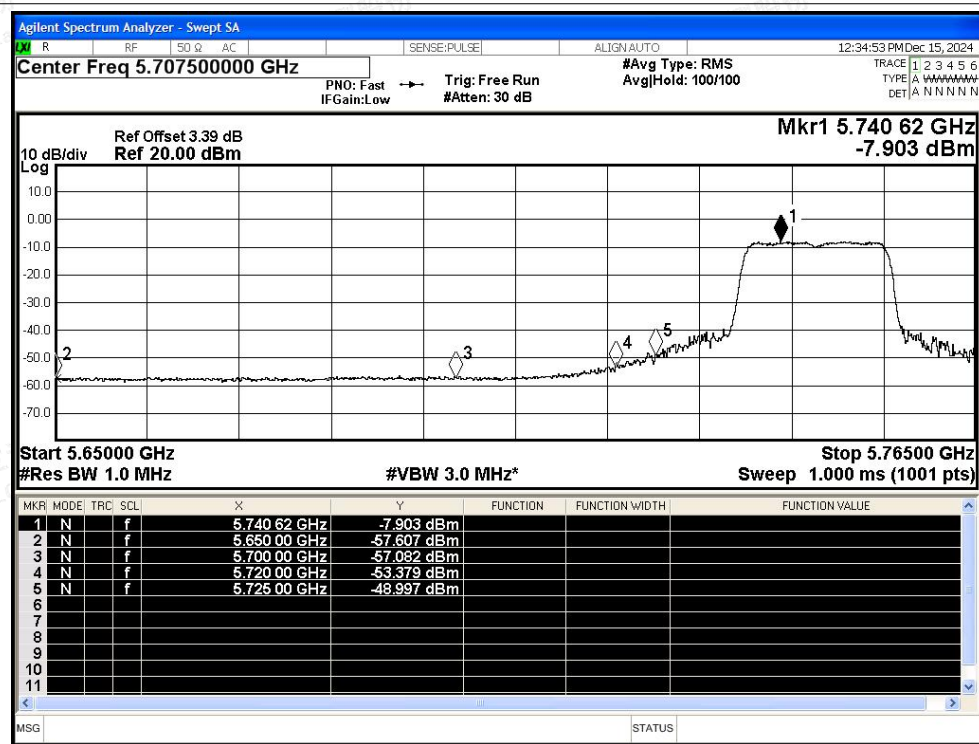




Restrict Band NVNT n20 5745MHz Ant1 Peak

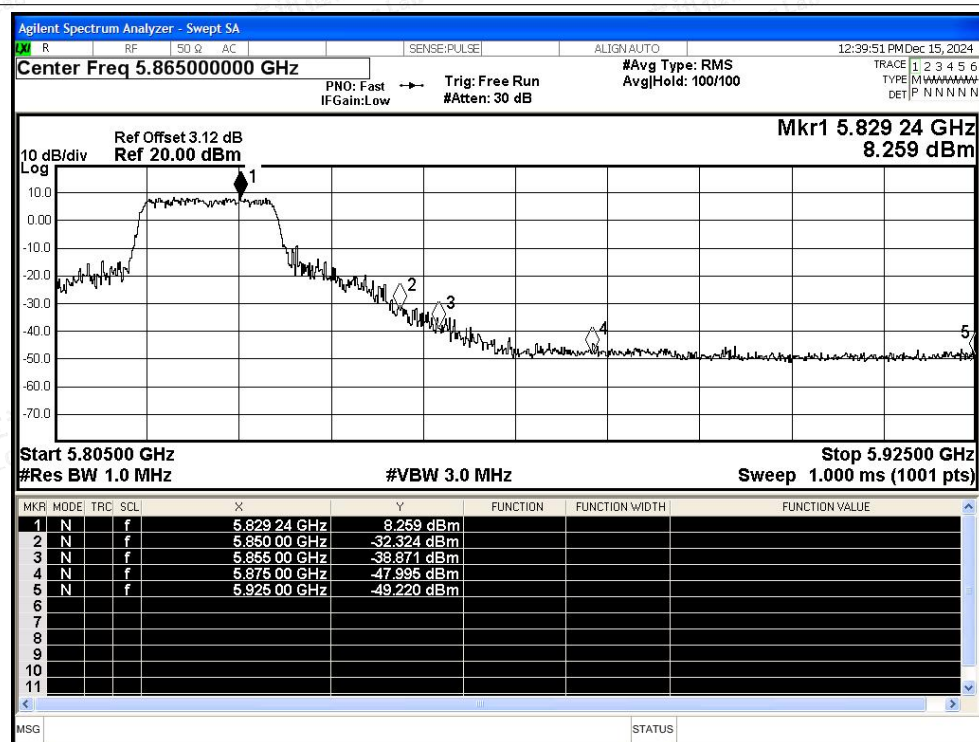


Restrict Band NVNT n20 5745MHz Ant1 Average

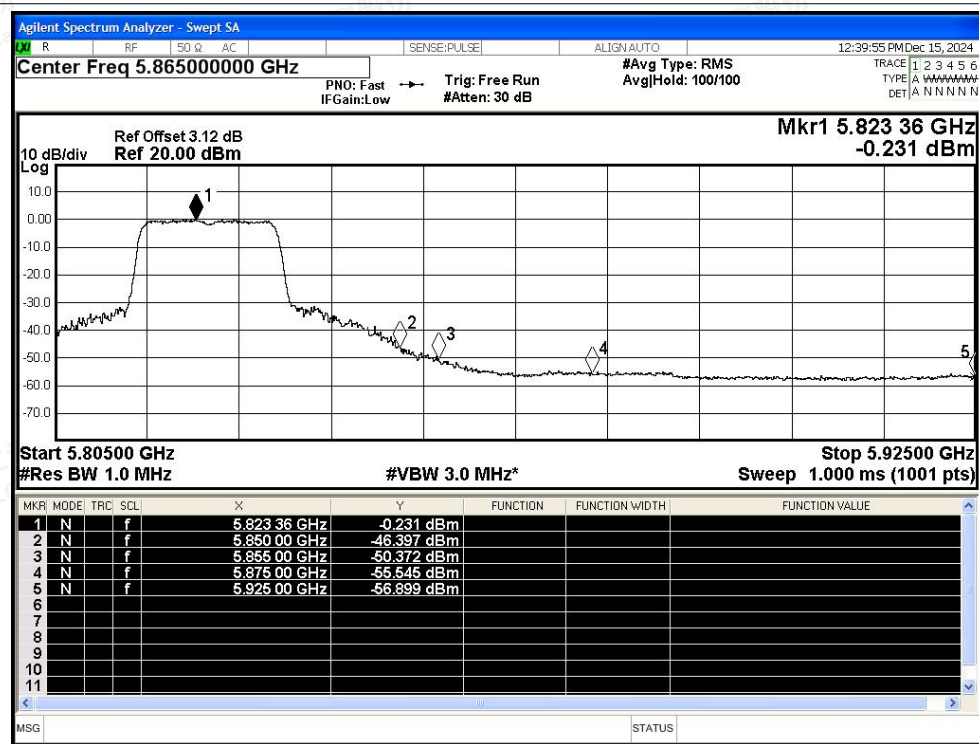




Restrict Band NVNT n20 5825MHz Ant1 Peak



Restrict Band NVNT n20 5825MHz Ant1 Average



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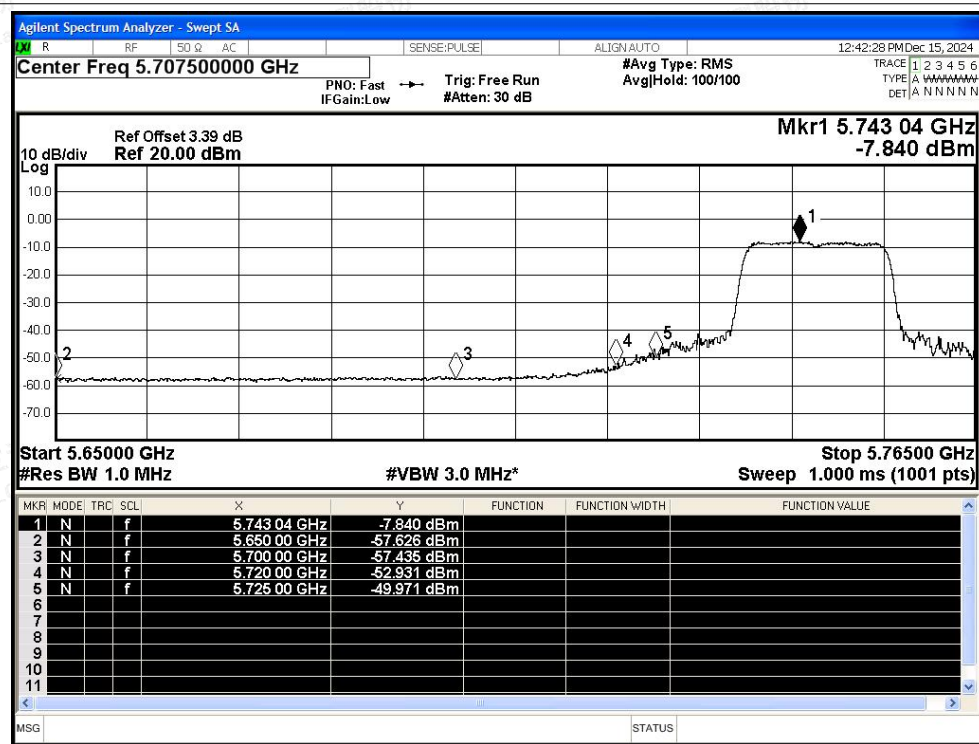
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Restrict Band NVNT ac20 5745MHz Ant1 Peak

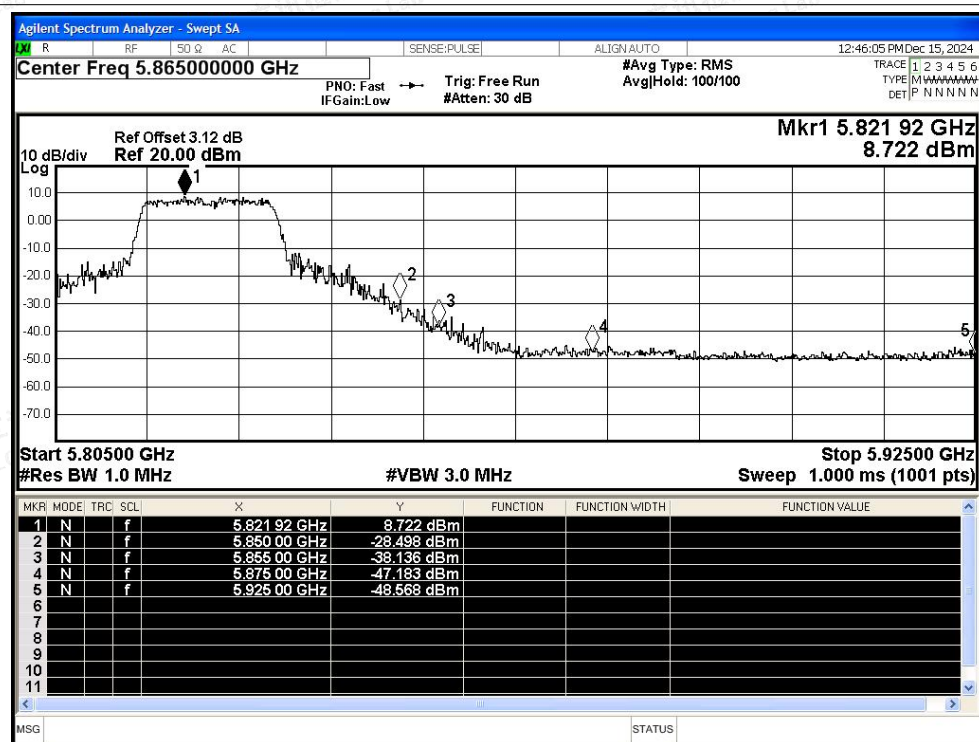


Restrict Band NVNT ac20 5745MHz Ant1 Average





Restrict Band NVNT ac20 5825MHz Ant1 Peak



Restrict Band NVNT ac20 5825MHz Ant1 Average

