



Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Handheld tire tread detection equipment

Test Model: TTM313

Environmental Conditions

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



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E.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.894	≥ 0.5	Pass
NVNT	a	5785	Ant1	15.789	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.291	≥ 0.5	Pass
NVNT	n20	5745	Ant1	16.66	≥ 0.5	Pass
NVNT	n20	5785	Ant1	16.768	≥ 0.5	Pass
NVNT	n20	5825	Ant1	15.159	≥ 0.5	Pass
NVNT	n40	5755	Ant1	35.089	≥ 0.5	Pass
NVNT	n40	5795	Ant1	35.472	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	15.744	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	15.296	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	16.093	≥ 0.5	Pass
NVNT	ac40	5755	Ant1	35.118	≥ 0.5	Pass
NVNT	ac40	5795	Ant1	35.187	≥ 0.5	Pass
NVNT	ac80	5775	Ant1	75.19	≥ 0.5	Pass

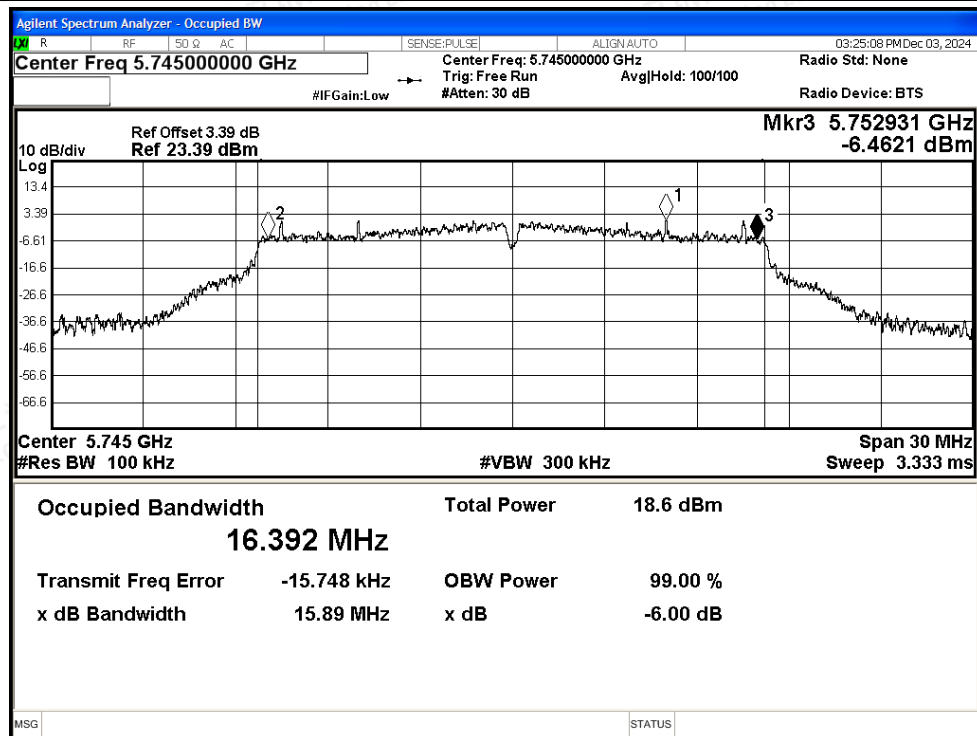


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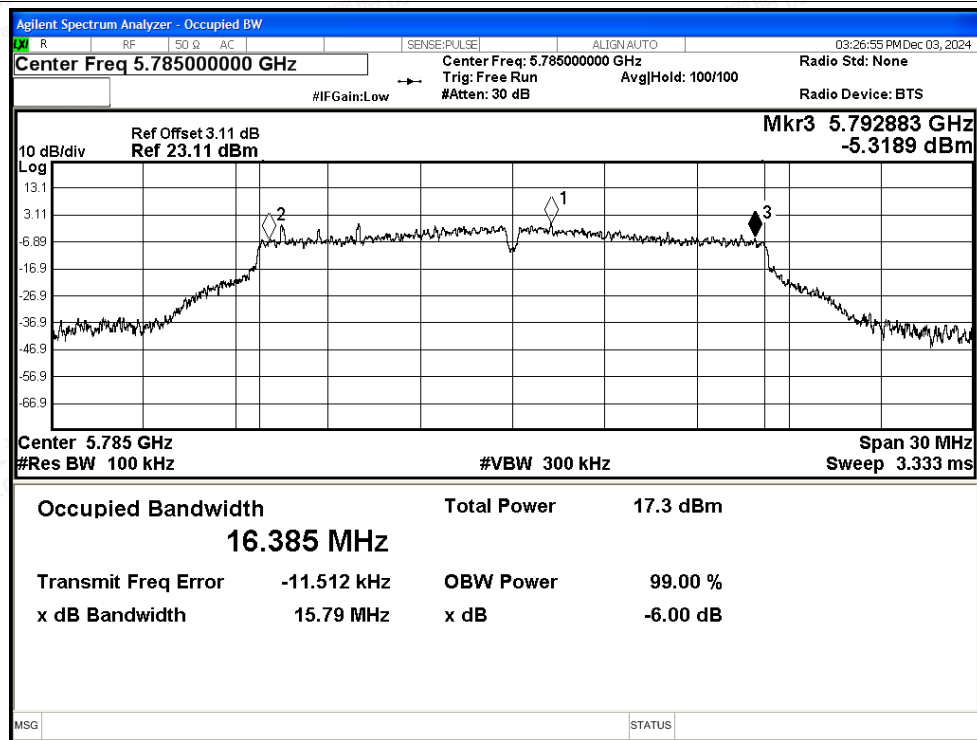


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

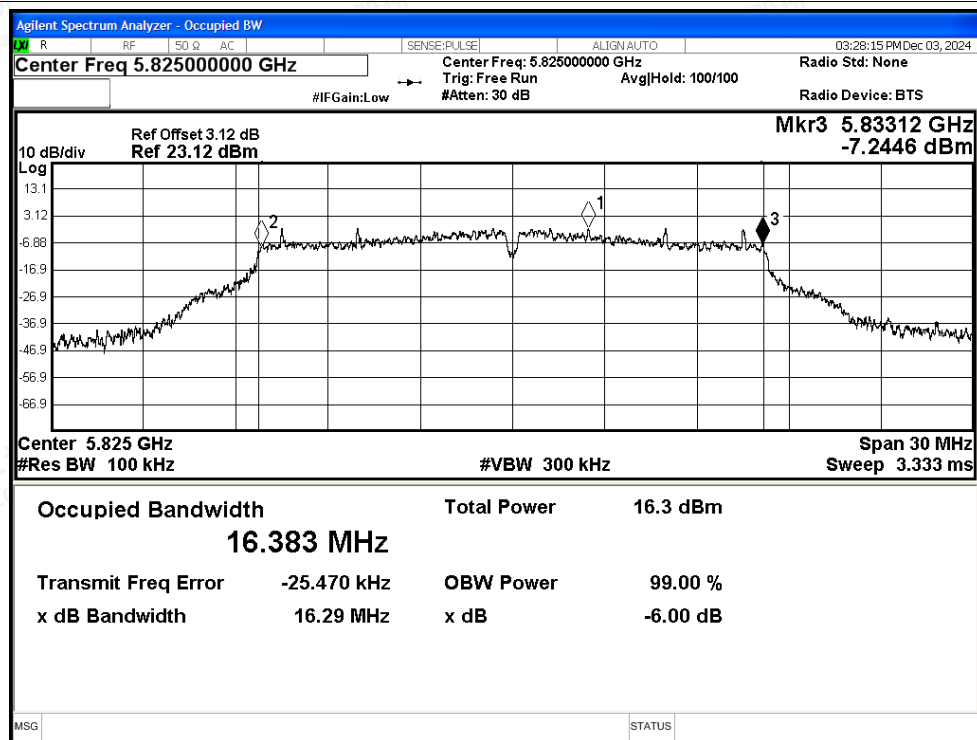


-6dB Bandwidth NVNT a 5785MHz Ant1

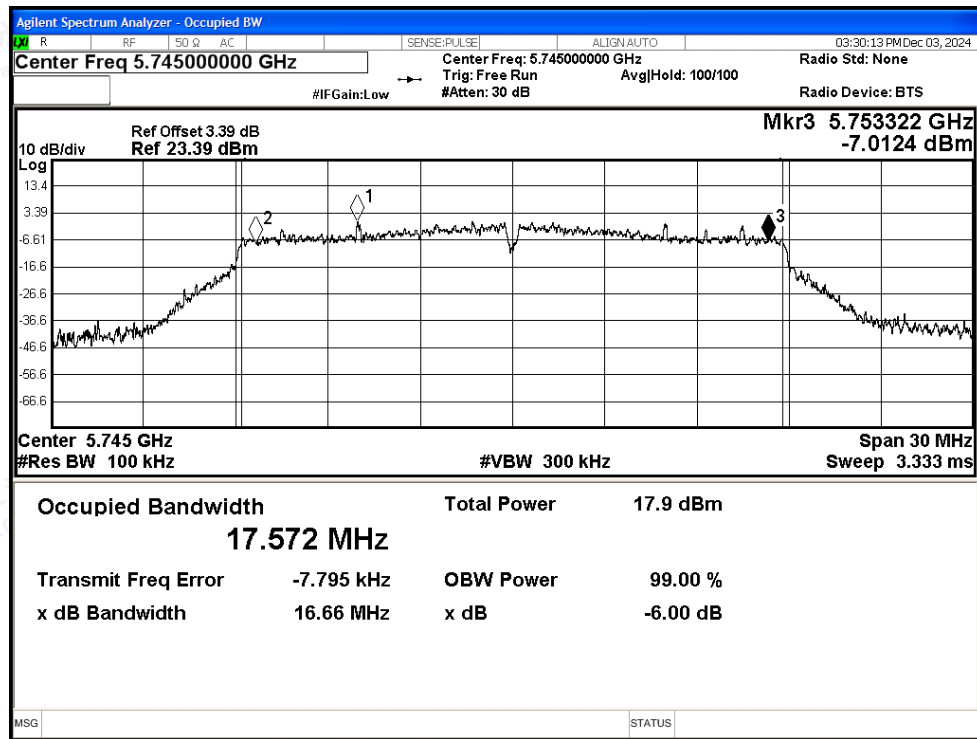




-6dB Bandwidth NVNT a 5825MHz Ant1

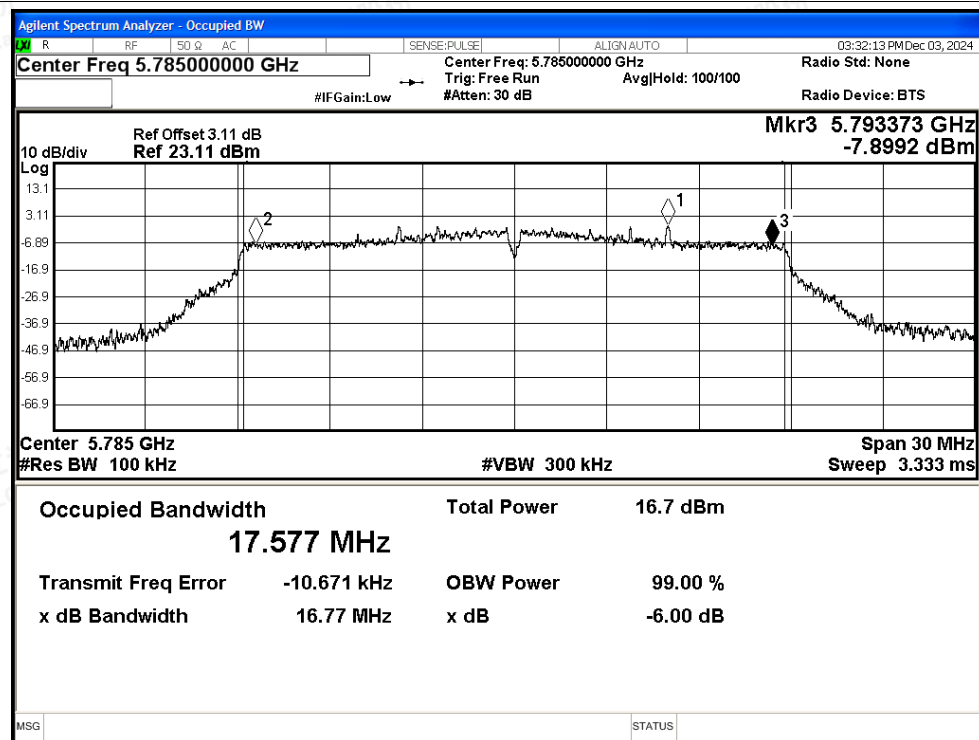


-6dB Bandwidth NVNT n20 5745MHz Ant1

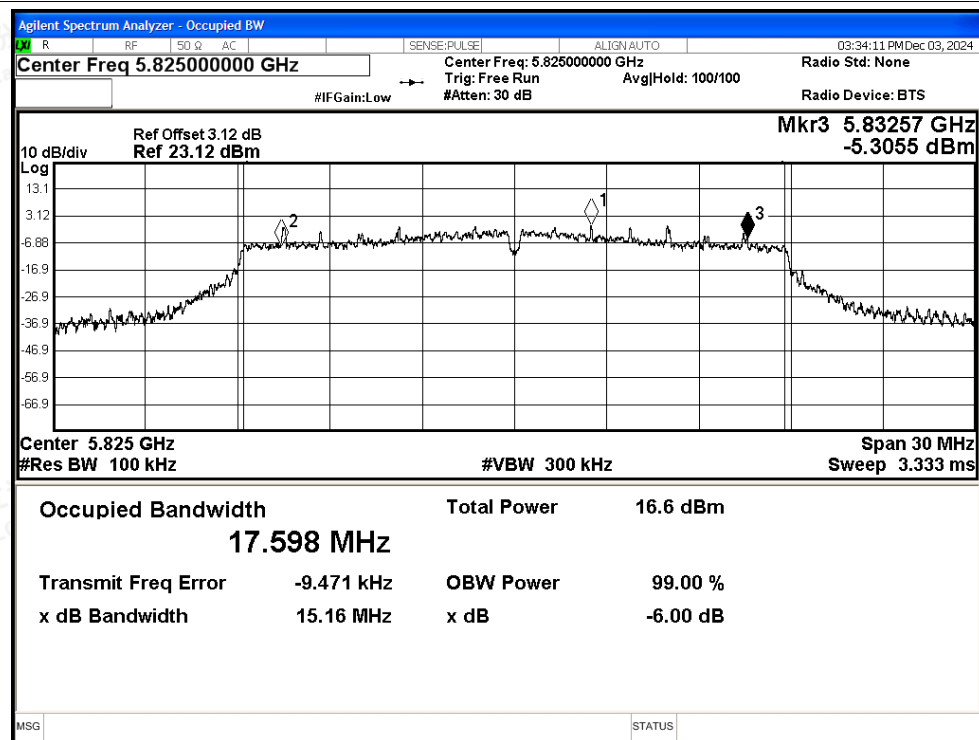




-6dB Bandwidth NVNT n20 5785MHz Ant1

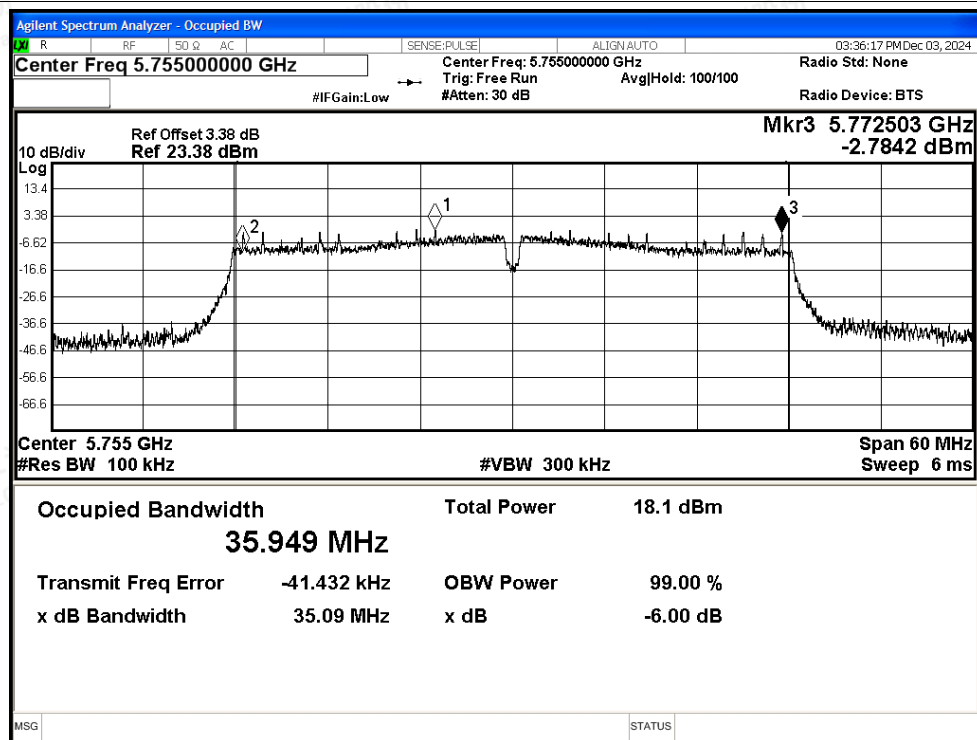


-6dB Bandwidth NVNT n20 5825MHz Ant1

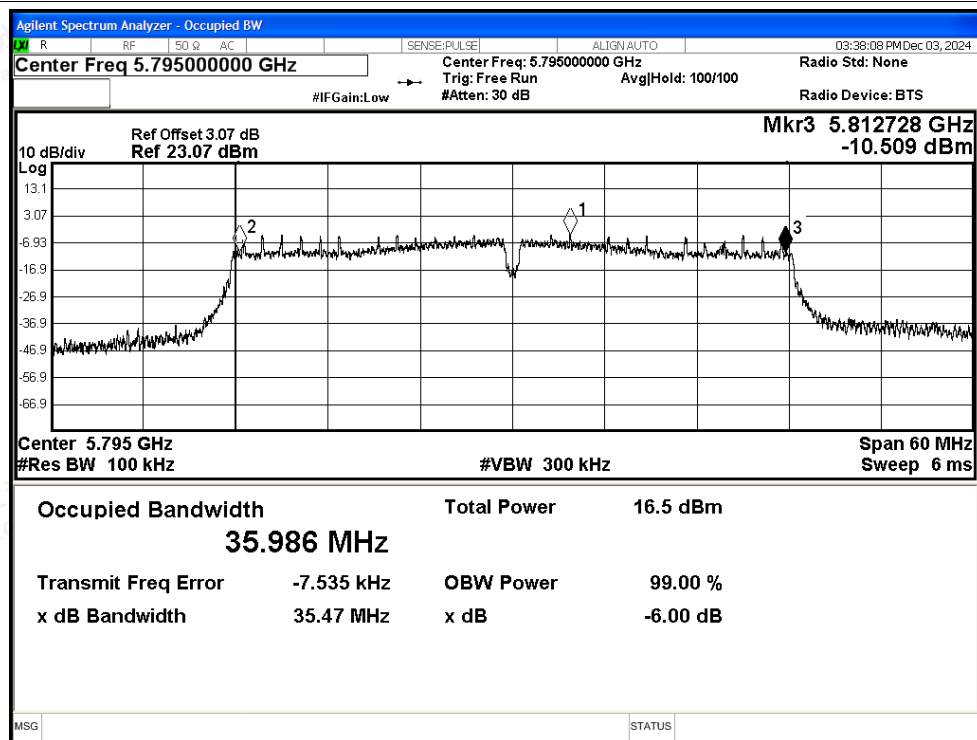




-6dB Bandwidth NVNT n40 5755MHz Ant1

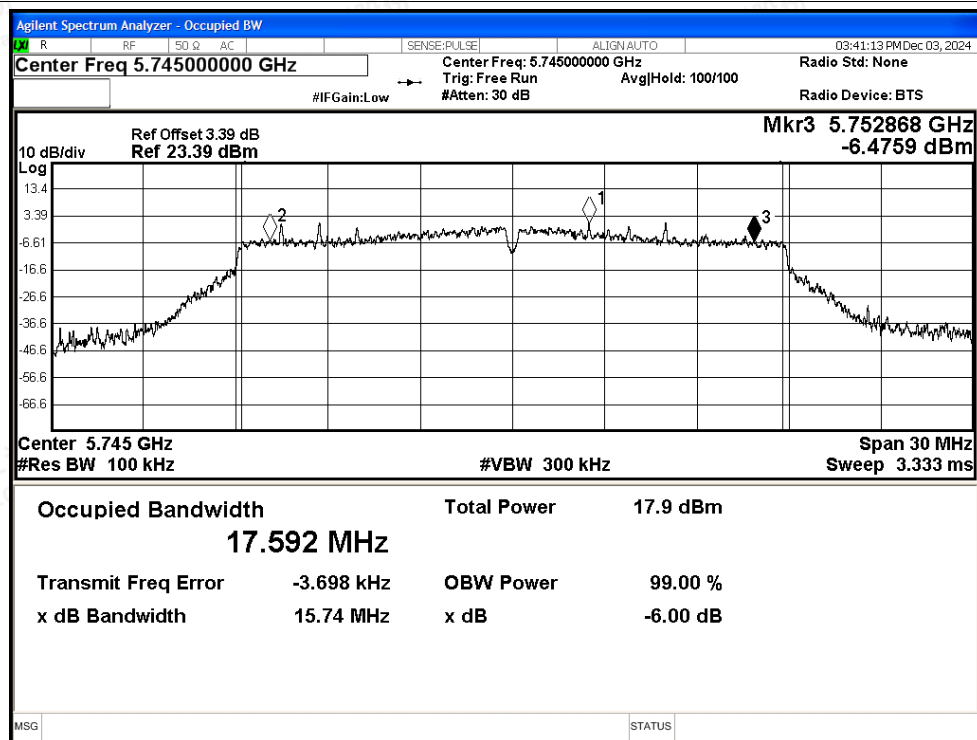


-6dB Bandwidth NVNT n40 5795MHz Ant1

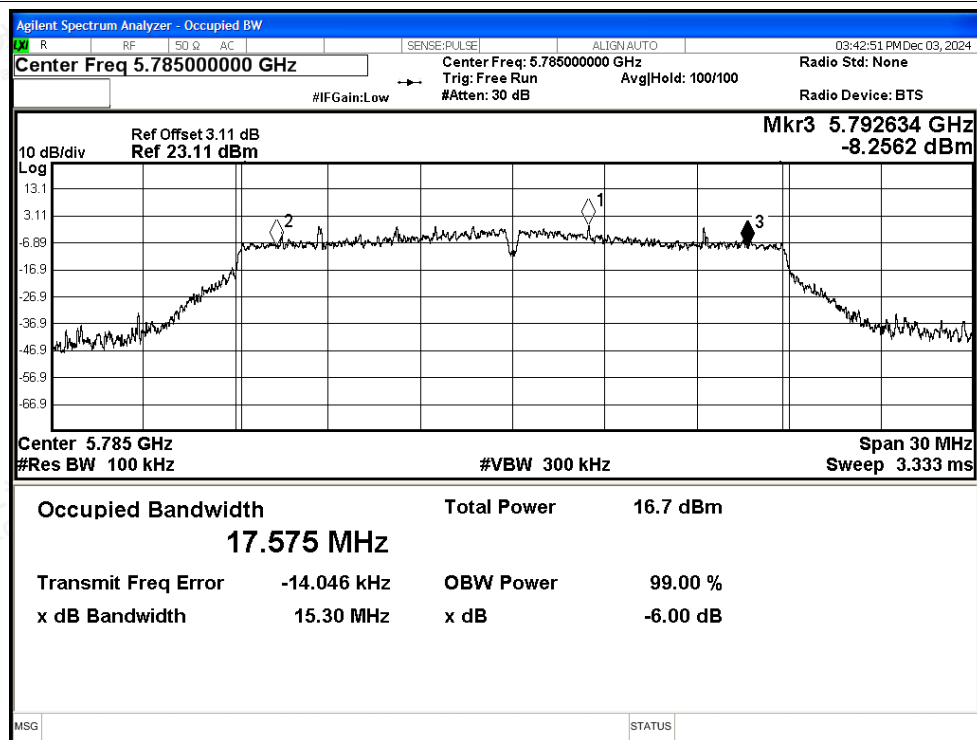




-6dB Bandwidth NVNT ac20 5745MHz Ant1

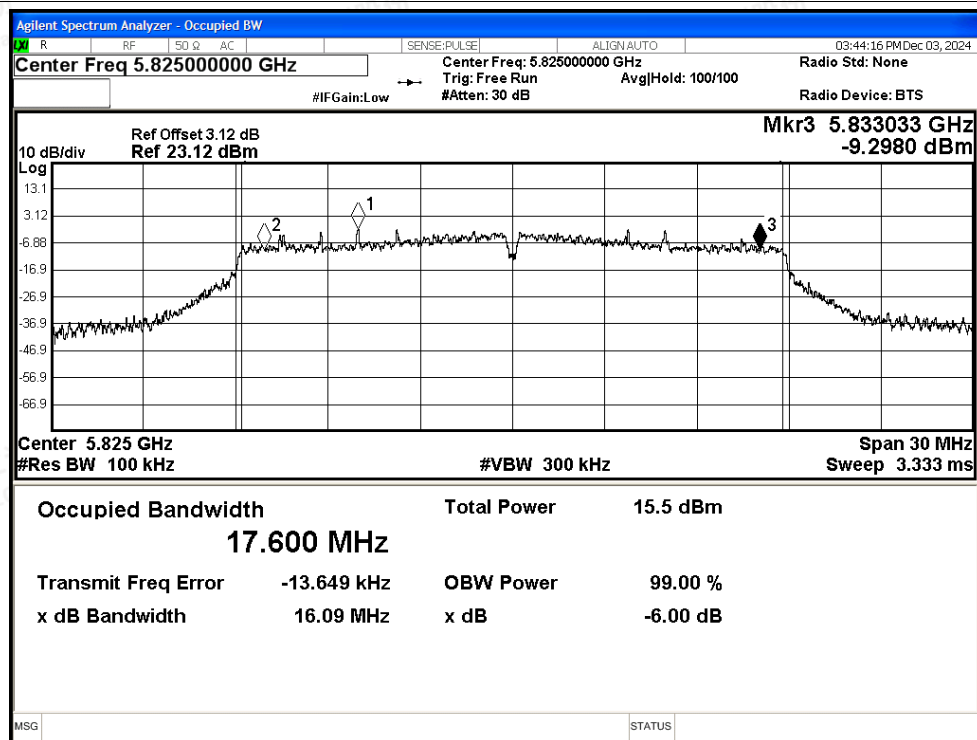


-6dB Bandwidth NVNT ac20 5785MHz Ant1

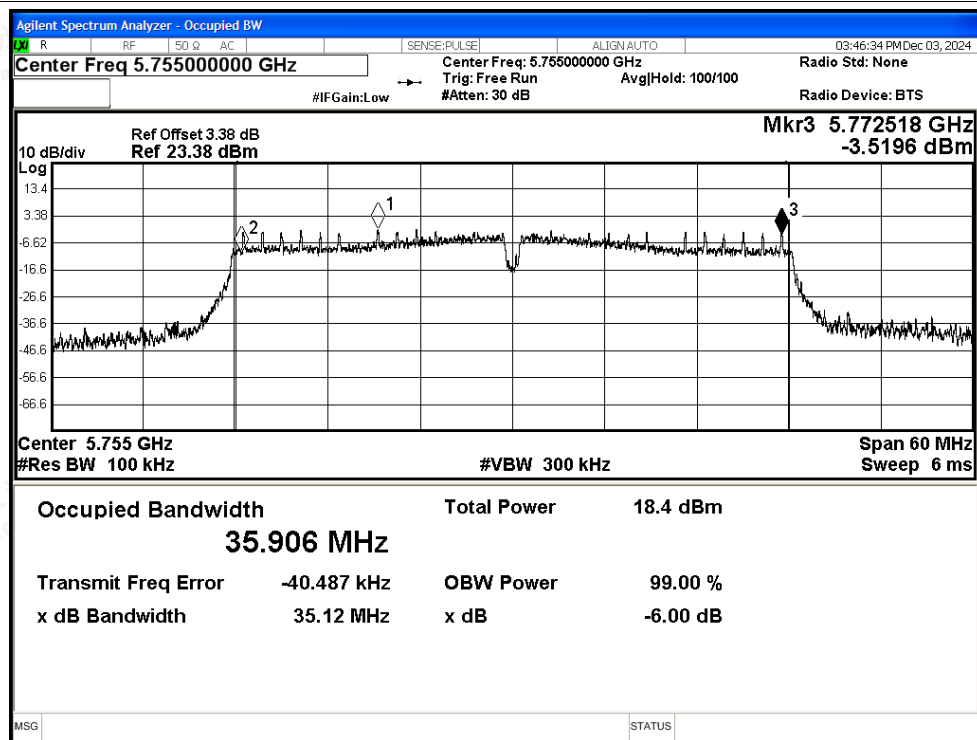




-6dB Bandwidth NVNT ac20 5825MHz Ant1

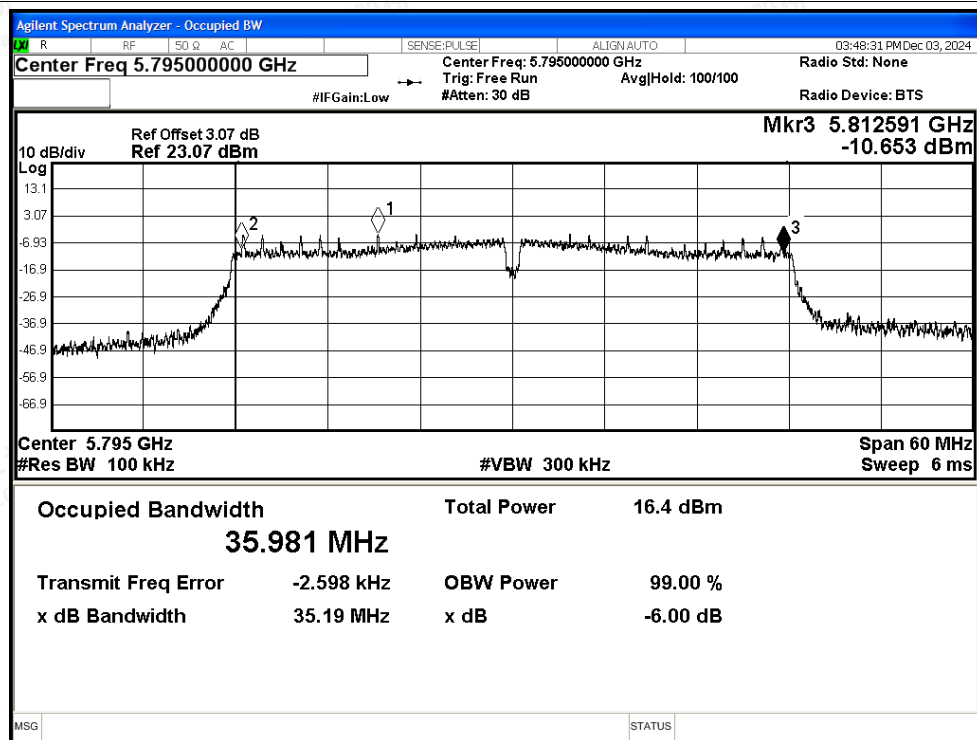


-6dB Bandwidth NVNT ac40 5755MHz Ant1

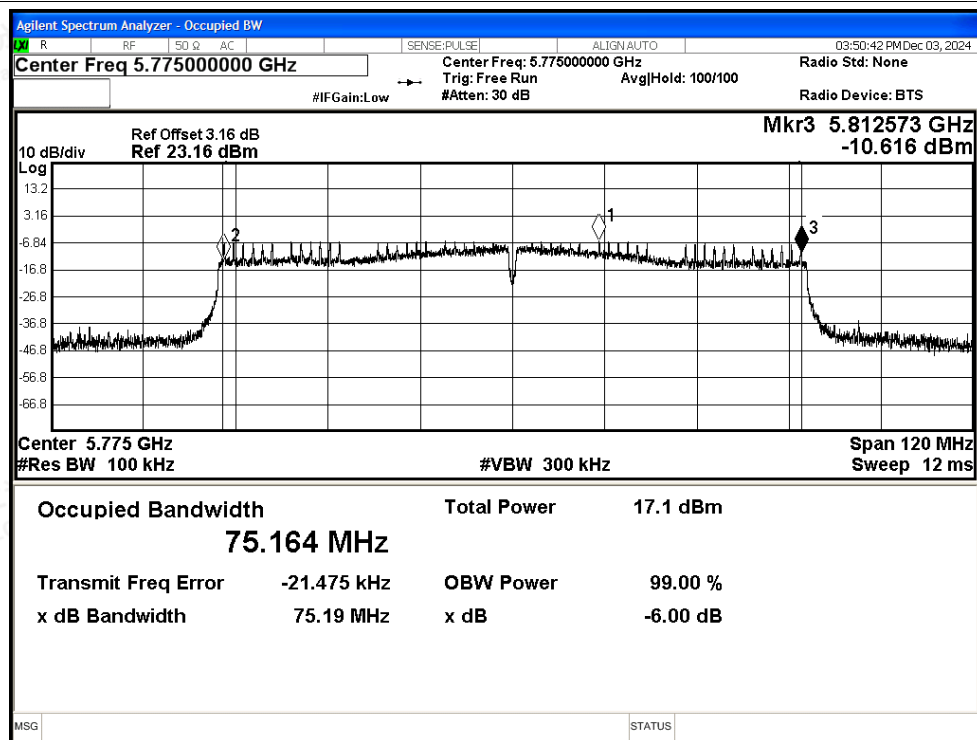




-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1





E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.65	0.13	12.78	30	Pass
NVNT	a	5785	Ant1	11.45	0.13	11.58	30	Pass
NVNT	a	5825	Ant1	10.31	0.13	10.44	30	Pass
NVNT	n20	5745	Ant1	12	0.13	12.13	30	Pass
NVNT	n20	5785	Ant1	10.8	0.13	10.93	30	Pass
NVNT	n20	5825	Ant1	10.46	0.13	10.59	30	Pass
NVNT	n40	5755	Ant1	11.68	0.26	11.94	30	Pass
NVNT	n40	5795	Ant1	9.92	0	9.92	30	Pass
NVNT	ac20	5745	Ant1	11.96	0.13	12.09	30	Pass
NVNT	ac20	5785	Ant1	10.7	0.13	10.83	30	Pass
NVNT	ac20	5825	Ant1	9.55	0.13	9.68	30	Pass
NVNT	ac40	5755	Ant1	11.71	0	11.71	30	Pass
NVNT	ac40	5795	Ant1	9.8	0.26	10.06	30	Pass
NVNT	ac80	5775	Ant1	9.94	0	9.94	30	Pass



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E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	1.18	0.13	1.31	30	Pass
NVNT	a	5785	Ant1	-0.04	0.13	0.09	30	Pass
NVNT	a	5825	Ant1	-0.94	0.13	-0.81	30	Pass
NVNT	n20	5745	Ant1	0.05	0.13	0.18	30	Pass
NVNT	n20	5785	Ant1	-0.93	0.13	-0.8	30	Pass
NVNT	n20	5825	Ant1	-1.25	0.13	-1.12	30	Pass
NVNT	n40	5755	Ant1	-3.17	0.26	-2.91	30	Pass
NVNT	n40	5795	Ant1	-4.75	0	-4.75	30	Pass
NVNT	ac20	5745	Ant1	0.23	0.13	0.36	30	Pass
NVNT	ac20	5785	Ant1	-1.27	0.13	-1.14	30	Pass
NVNT	ac20	5825	Ant1	-2.14	0.13	-2.01	30	Pass
NVNT	ac40	5755	Ant1	-3.22	0	-3.22	30	Pass
NVNT	ac40	5795	Ant1	-4.84	0.26	-4.58	30	Pass
NVNT	ac80	5775	Ant1	-8.01	0	-8.01	30	Pass

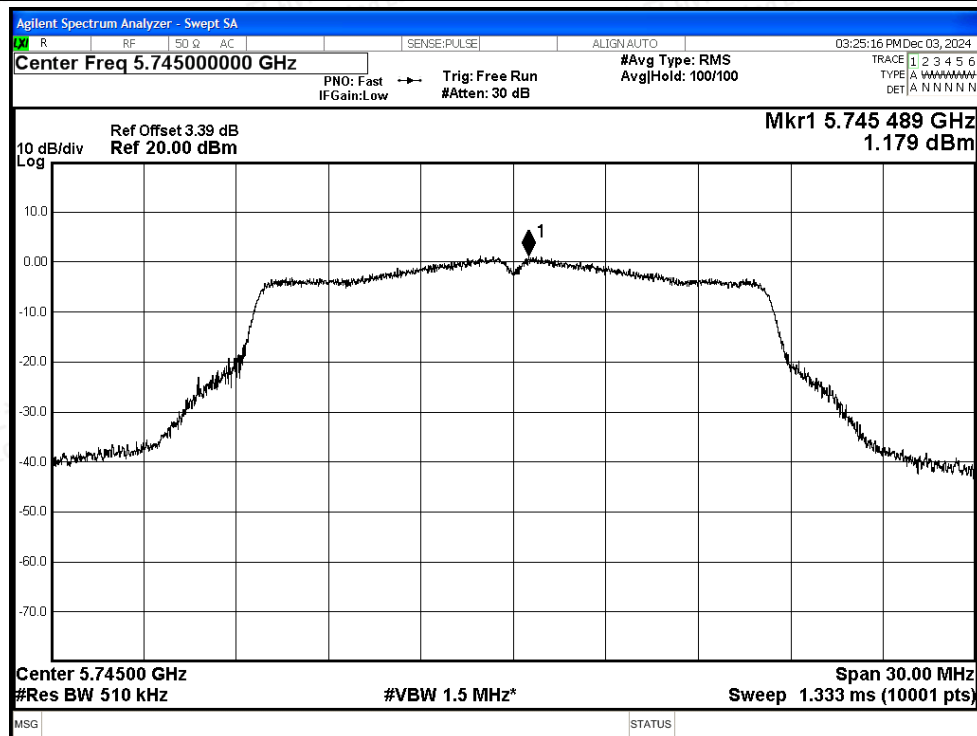


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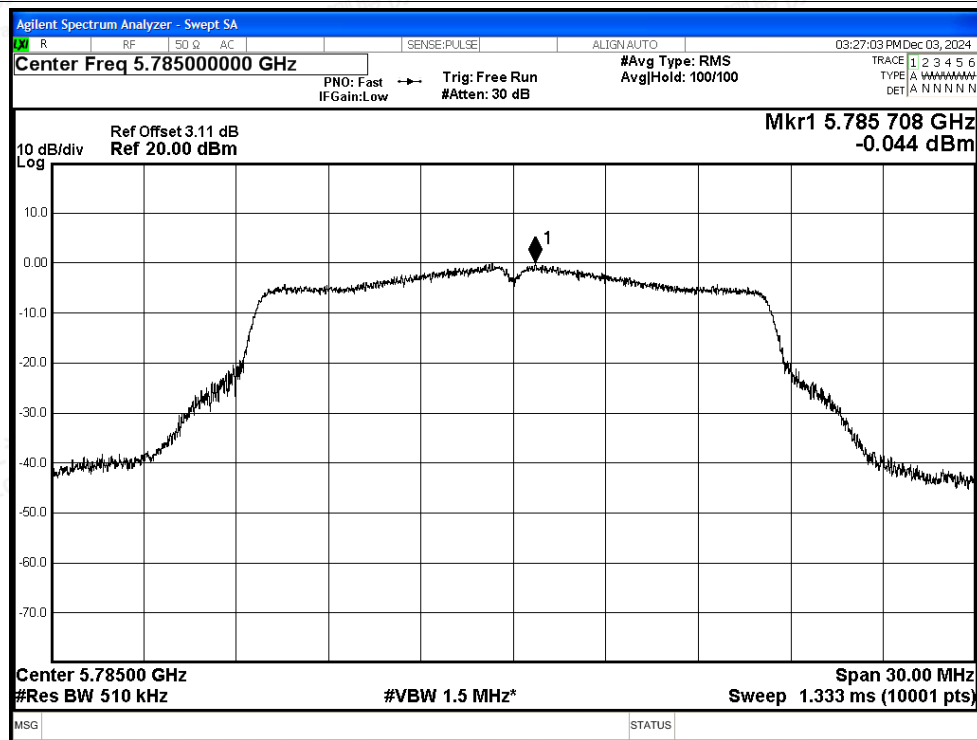


Test Graphs

PSD NVNT a 5745MHz Ant1

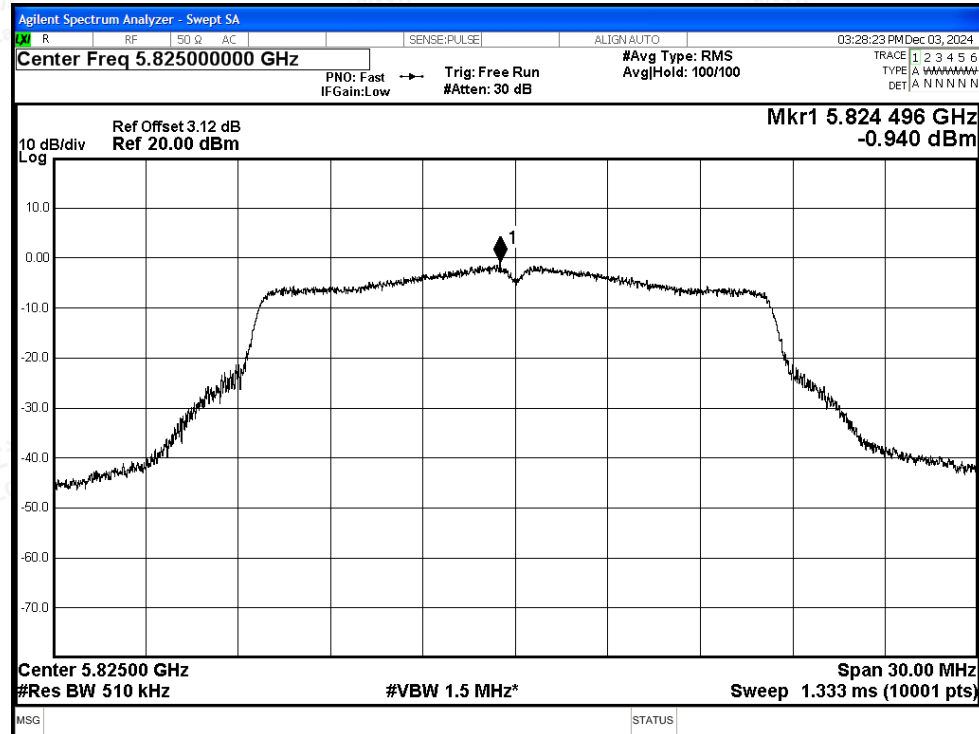


PSD NVNT a 5785MHz Ant1

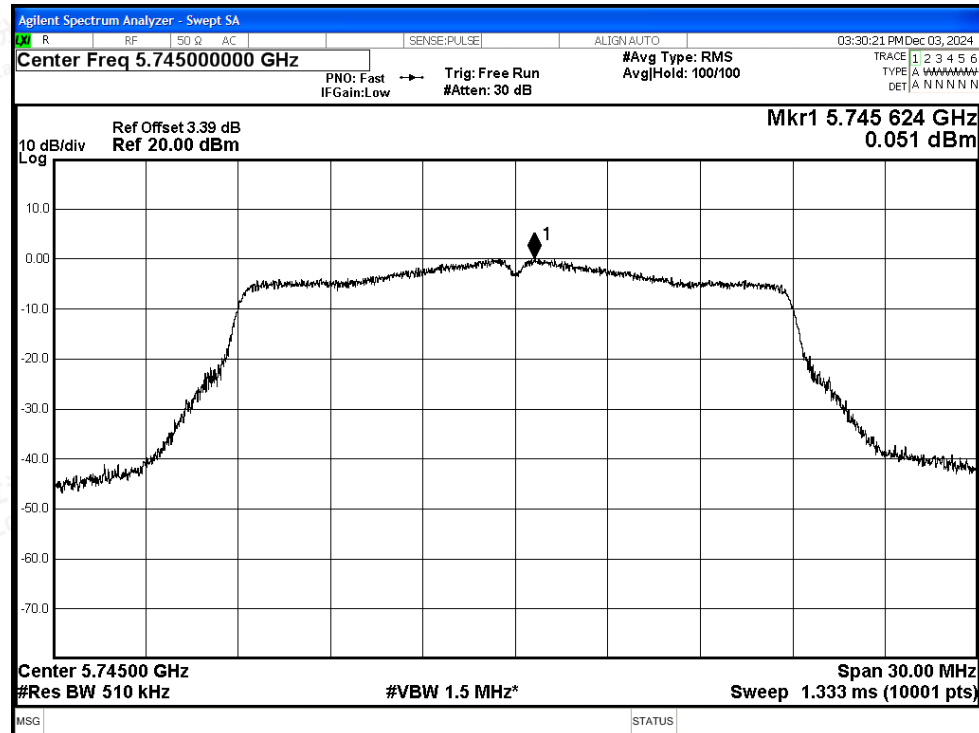


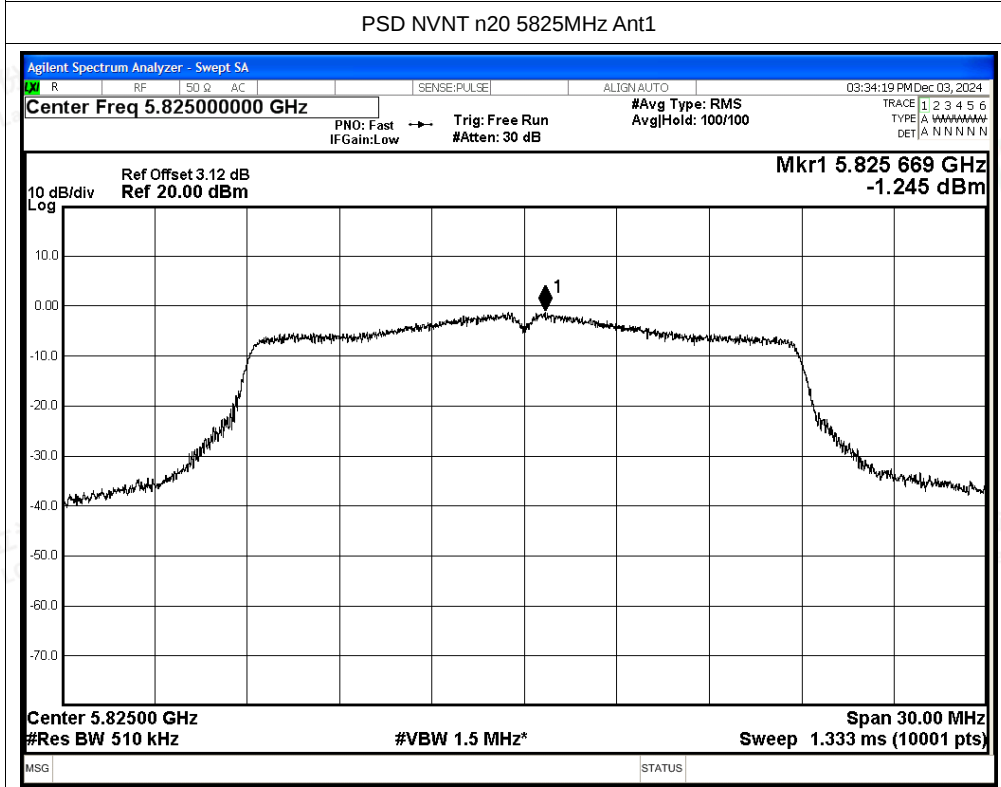
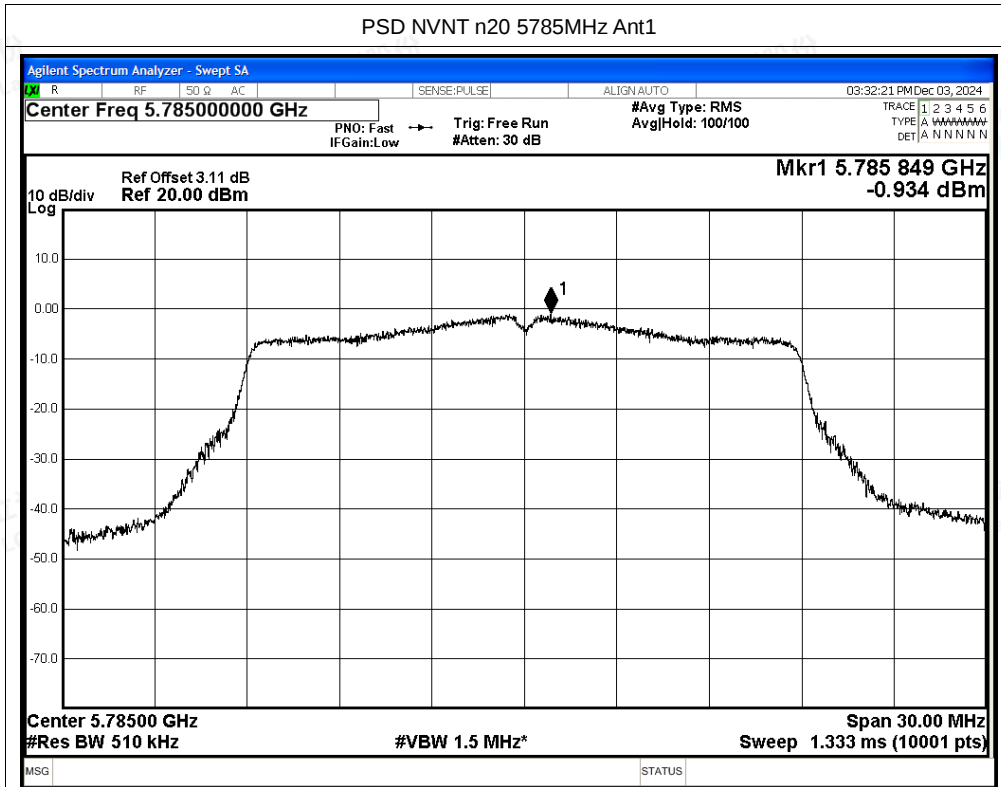


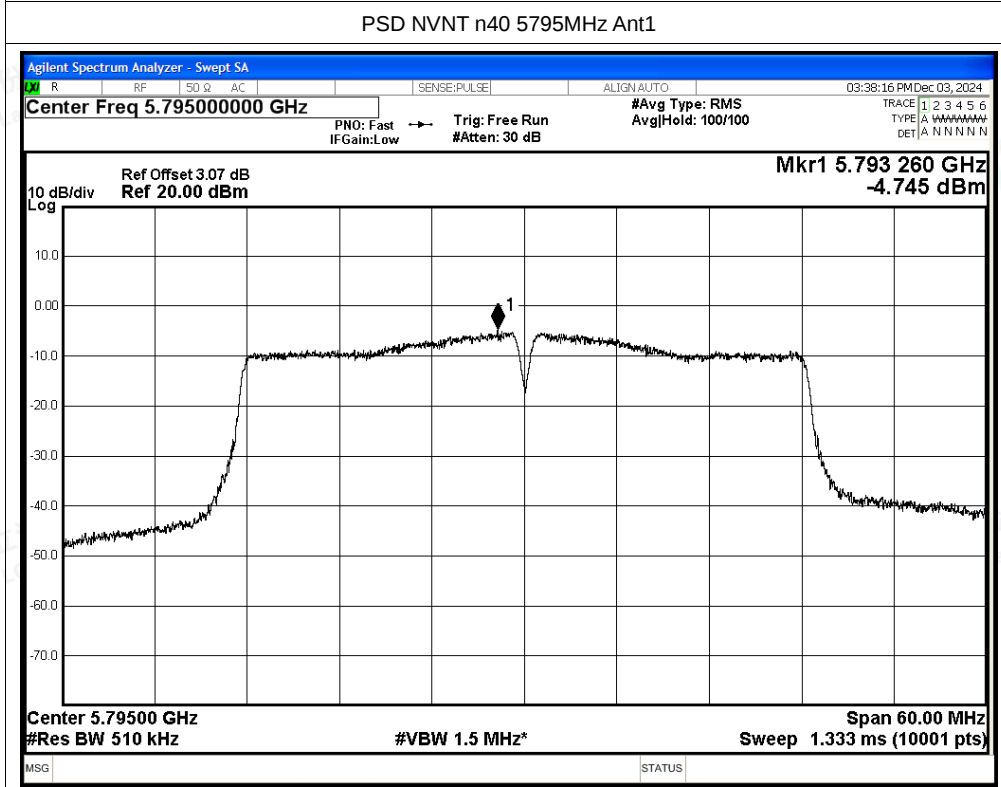
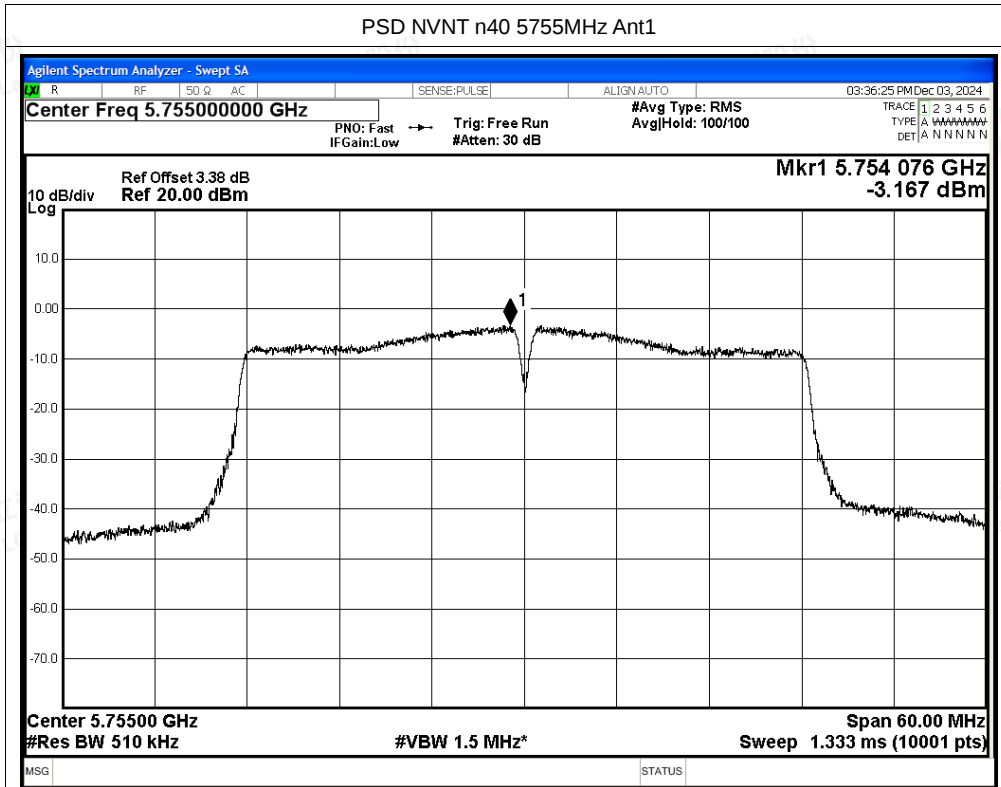
PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1

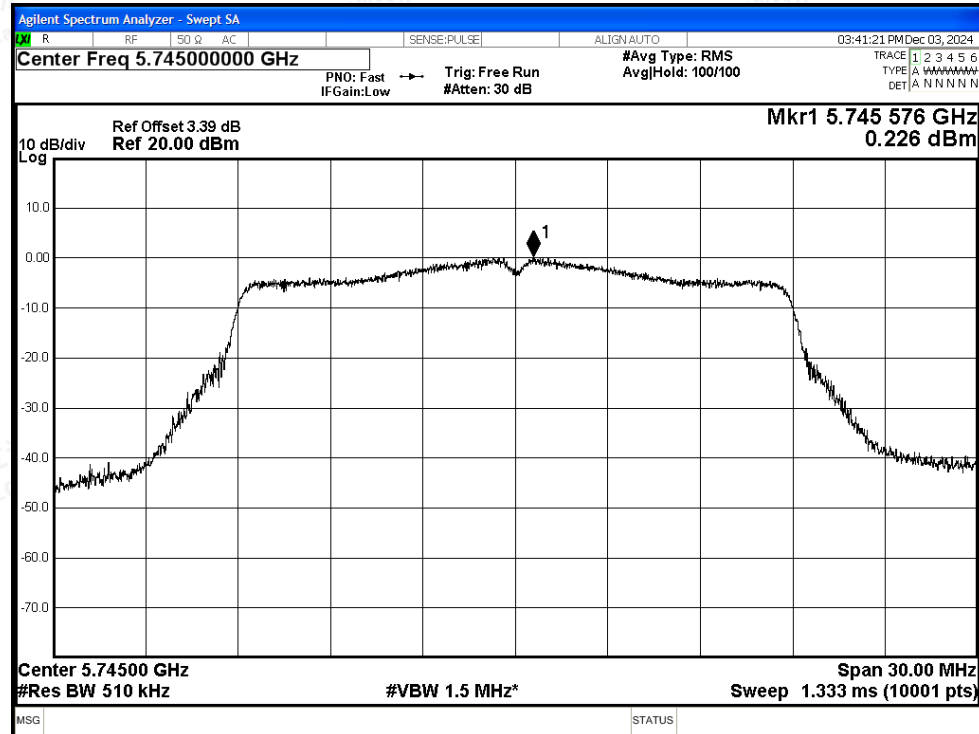




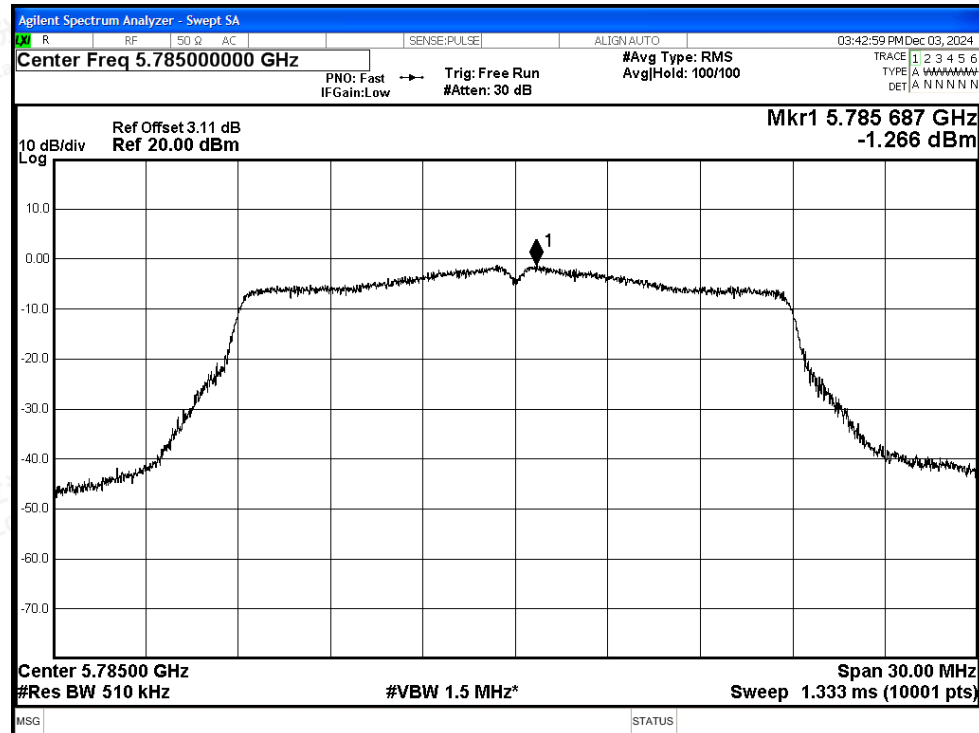


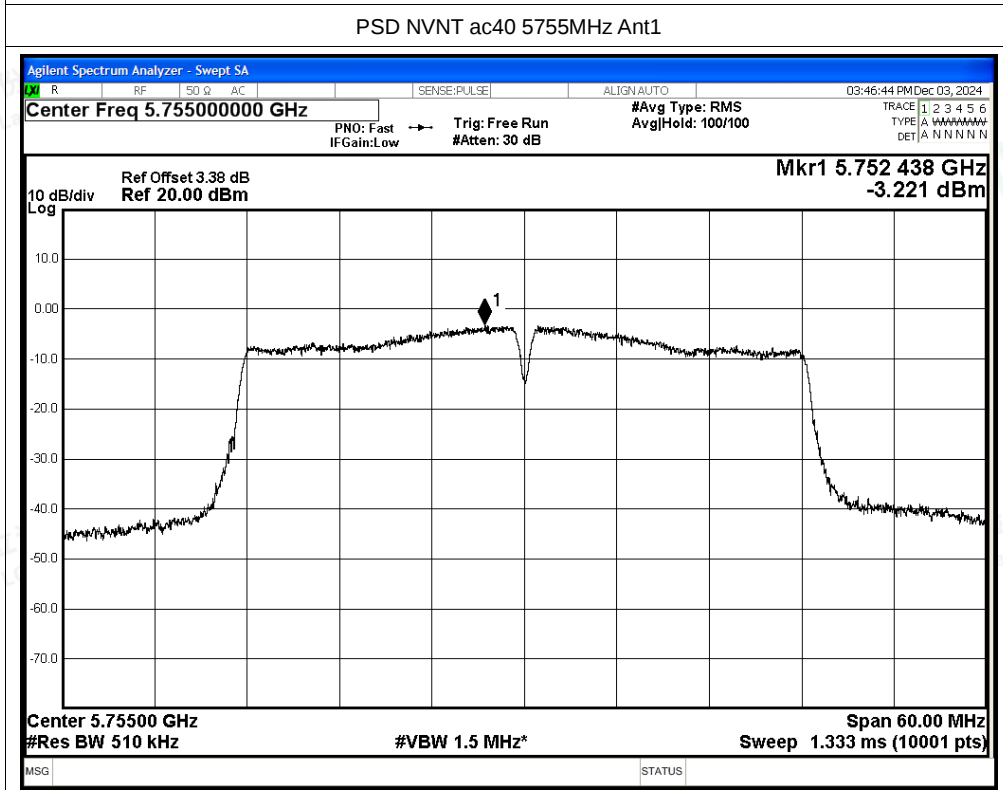
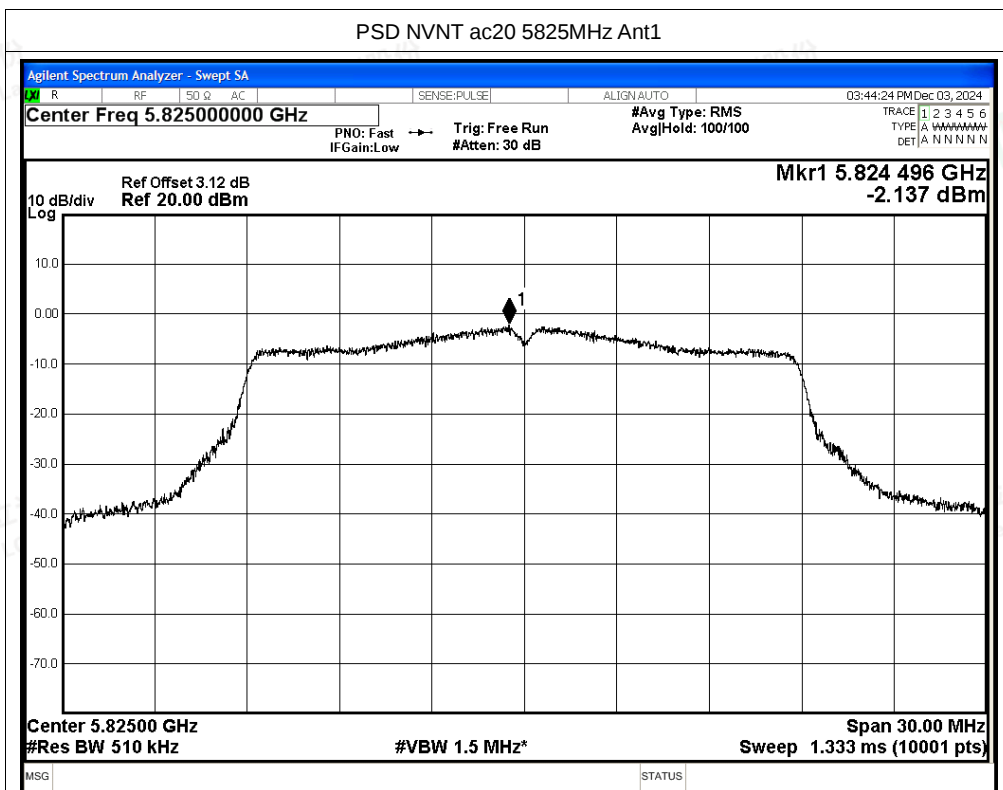


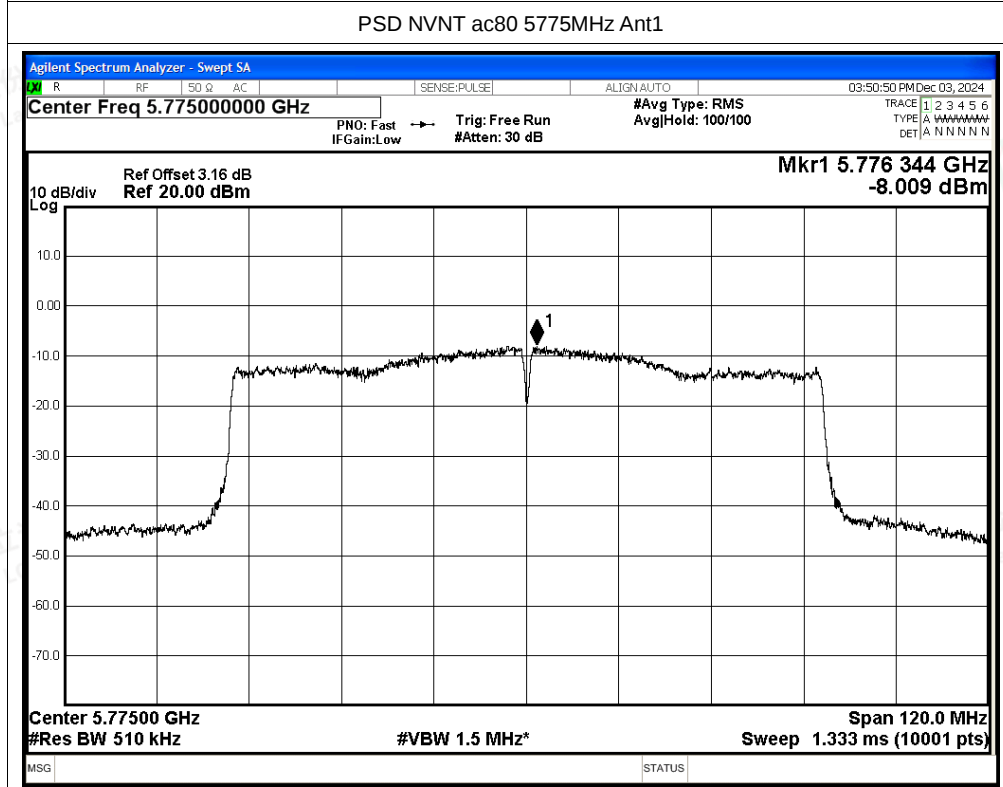
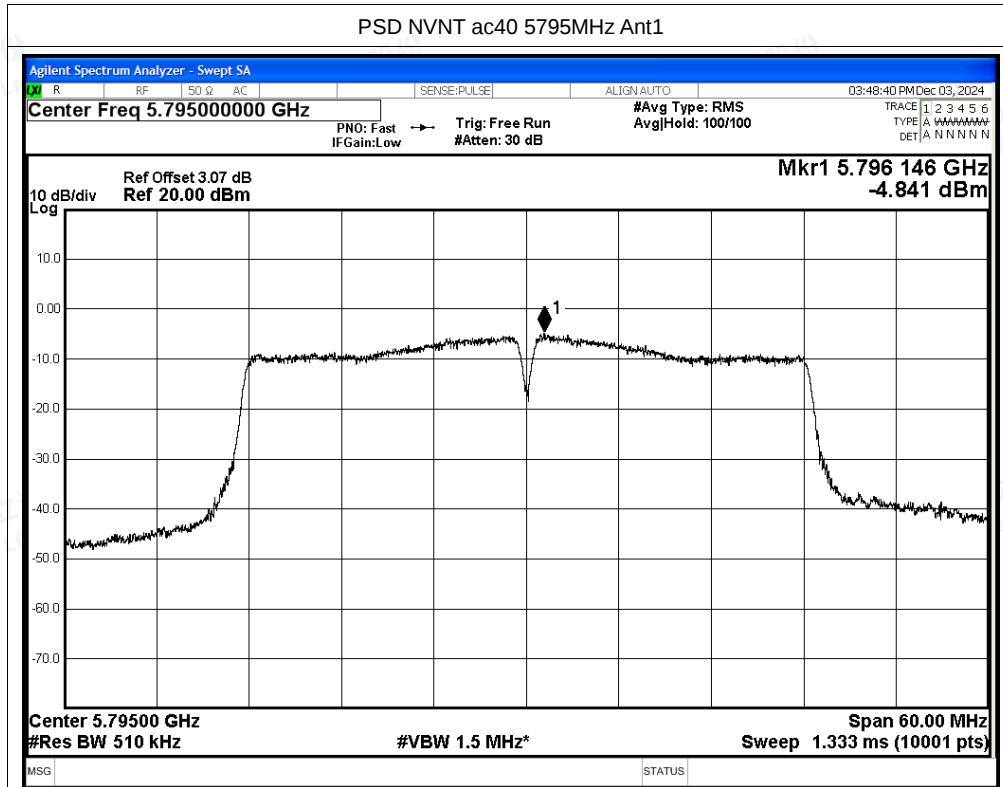
PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1









E.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	-50.05	3.96	-	-46.09	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-56.5	3.96	0.13	-52.41	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-41.84	3.96	-	-37.88	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-51.69	3.96	0.13	-47.60	Average	10	Pass
NVNT	a	5745	Ant1	5720	-29.3	3.96	-	-25.34	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-45.66	3.96	0.13	-41.57	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-27.26	3.96	-	-23.30	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-40.05	3.96	0.13	-35.96	Average	27	Pass
NVNT	a	5825	Ant1	5850	-37.14	3.96	-	-33.18	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-48.88	3.96	0.13	-44.79	Average	27	Pass
NVNT	a	5825	Ant1	5855	-38.78	3.96	-	-34.82	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-50.83	3.96	0.13	-46.74	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-45.62	3.96	-	-41.66	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-55.42	3.96	0.13	-51.33	Average	10	Pass
NVNT	a	5825	Ant1	5925	-49.47	3.96	-	-45.51	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-57.17	3.96	0.13	-53.08	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-48.8	3.96	-	-44.84	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-57.31	3.96	0.13	-53.22	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-45.47	3.96	-	-41.51	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-53.73	3.96	0.13	-49.64	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-40.39	3.96	-	-36.43	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-49.32	3.96	0.13	-45.23	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-35.51	3.96	-	-31.55	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-45.97	3.96	0.13	-41.88	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-37.33	3.96	-	-33.37	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-47.56	3.96	0.13	-43.47	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-41.5	3.96	-	-37.54	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-52.17	3.96	0.13	-48.08	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-47.92	3.96	-	-43.96	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-56.13	3.96	0.13	-52.04	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-49.62	3.96	-	-45.66	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-56.93	3.96	0.13	-52.84	Average	-27	Pass
NVNT	n40	5755	Ant1	5650	-46.96	3.96	-	-43.00	Peak	-27	Pass
NVNT	n40	5755	Ant1	5650	-55.35	3.96	0.26	-51.13	Average	-27	Pass
NVNT	n40	5755	Ant1	5700	-42.88	3.96	-	-38.92	Peak	10	Pass



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NVNT	n40	5755	Ant1	5700	-51.98	3.96	0.26	-47.76	Average	10	Pass
NVNT	n40	5755	Ant1	5720	-34.24	3.96	-	-30.28	Peak	15.6	Pass
NVNT	n40	5755	Ant1	5720	-44.89	3.96	0.26	-40.67	Average	15.6	Pass
NVNT	n40	5755	Ant1	5725	-33.31	3.96	-	-29.35	Peak	27	Pass
NVNT	n40	5755	Ant1	5725	-43.01	3.96	0.26	-38.79	Average	27	Pass
NVNT	n40	5795	Ant1	5850	-43.96	3.96	-	-40.00	Peak	27	Pass
NVNT	n40	5795	Ant1	5850	-55.4	3.96	0	-51.44	Average	27	Pass
NVNT	n40	5795	Ant1	5855	-45.9	3.96	-	-41.94	Peak	15.6	Pass
NVNT	n40	5795	Ant1	5855	-54.99	3.96	0	-51.03	Average	15.6	Pass
NVNT	n40	5795	Ant1	5875	-47.41	3.96	-	-43.45	Peak	10	Pass
NVNT	n40	5795	Ant1	5875	-55.87	3.96	0	-51.91	Average	10	Pass
NVNT	n40	5795	Ant1	5925	-48.75	3.96	-	-44.79	Peak	-27	Pass
NVNT	n40	5795	Ant1	5925	-57.07	3.96	0	-53.11	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-49.02	3.96	-	-45.06	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-56.88	3.96	0.13	-52.79	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-45.5	3.96	-	-41.54	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-54.15	3.96	0.13	-50.06	Average	10	Pass
NVNT	ac20	5745	Ant1	5720	-39.62	3.96	-	-35.66	Peak	15.6	Pass
NVNT	ac20	5745	Ant1	5720	-49.52	3.96	0.13	-45.43	Average	15.6	Pass
NVNT	ac20	5745	Ant1	5725	-37.12	3.96	-	-33.16	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-46.89	3.96	0.13	-42.80	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-39.9	3.96	-	-35.94	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-52	3.96	0.13	-47.91	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-46.01	3.96	-	-42.05	Peak	15.6	Pass
NVNT	ac20	5825	Ant1	5855	-54.2	3.96	0.13	-50.11	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-49.76	3.96	-	-45.80	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-55.5	3.96	0.13	-51.41	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-48.26	3.96	-	-44.30	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-56.95	3.96	0.13	-52.86	Average	-27	Pass
NVNT	ac40	5755	Ant1	5650	-46.92	3.96	-	-42.96	Peak	-27	Pass
NVNT	ac40	5755	Ant1	5650	-55.46	3.96	0	-51.50	Average	-27	Pass
NVNT	ac40	5755	Ant1	5700	-42.08	3.96	-	-38.12	Peak	10	Pass
NVNT	ac40	5755	Ant1	5700	-52.03	3.96	0	-48.07	Average	10	Pass
NVNT	ac40	5755	Ant1	5720	-35.71	3.96	-	-31.75	Peak	15.6	Pass
NVNT	ac40	5755	Ant1	5720	-44.42	3.96	0	-40.46	Average	15.6	Pass
NVNT	ac40	5755	Ant1	5725	-30.59	3.96	-	-26.63	Peak	27	Pass
NVNT	ac40	5755	Ant1	5725	-43.25	3.96	0	-39.29	Average	27	Pass
NVNT	ac40	5795	Ant1	5850	-44.42	3.96	-	-40.46	Peak	27	Pass
NVNT	ac40	5795	Ant1	5850	-54.85	3.96	0.26	-50.63	Average	27	Pass
NVNT	ac40	5795	Ant1	5855	-45.42	3.96	-	-41.46	Peak	15.6	Pass





NVNT	ac40	5795	Ant1	5855	-55.02	3.96	0.26	-50.80	Average	15.6	Pass
NVNT	ac40	5795	Ant1	5875	-49.19	3.96	-	-45.23	Peak	10	Pass
NVNT	ac40	5795	Ant1	5875	-55.85	3.96	0.26	-51.63	Average	10	Pass
NVNT	ac40	5795	Ant1	5925	-47.92	3.96	-	-43.96	Peak	-27	Pass
NVNT	ac40	5795	Ant1	5925	-57.11	3.96	0.26	-52.89	Average	-27	Pass
NVNT	ac80	5775	Ant1	5650	-45.18	3.96	-	-46.09	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5650	-54.6	3.96	0.13	-52.41	Average	-27	Pass
NVNT	ac80	5775	Ant1	5700	-37.37	3.96	-	-37.88	Peak	10	Pass
NVNT	ac80	5775	Ant1	5700	-44.6	3.96	0.13	-47.60	Average	10	Pass
NVNT	ac80	5775	Ant1	5720	-32.99	3.96	-	-25.34	Peak	15.6	Pass
NVNT	ac80	5775	Ant1	5720	-42.26	3.96	0.13	-41.57	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5725	-33.21	3.96	-	-23.30	Peak	27	Pass
NVNT	ac80	5775	Ant1	5725	-43.02	3.96	0.13	-35.96	Average	27	Pass
NVNT	ac80	5775	Ant1	5850	-38.39	3.96	-	-33.18	Peak	27	Pass
NVNT	ac80	5775	Ant1	5850	-47	3.96	0.13	-44.79	Average	27	Pass
NVNT	ac80	5775	Ant1	5855	-37.75	3.96	-	-34.82	Peak	15.6	Pass
NVNT	ac80	5775	Ant1	5855	-48.97	3.96	0.13	-46.74	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5875	-43.94	3.96	-	-41.66	Peak	10	Pass
NVNT	ac80	5775	Ant1	5875	-53.61	3.96	0.13	-51.33	Average	10	Pass
NVNT	ac80	5775	Ant1	5925	-46.58	3.96	-	-45.51	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5925	-55.17	3.96	0.13	-53.08	Average	-27	Pass

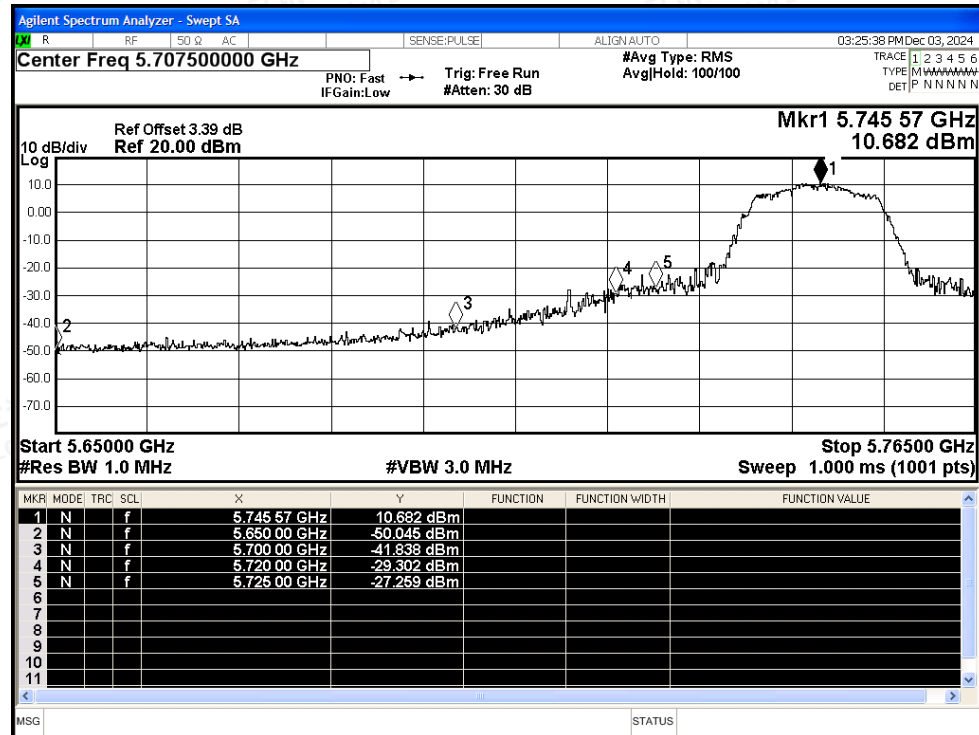


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Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

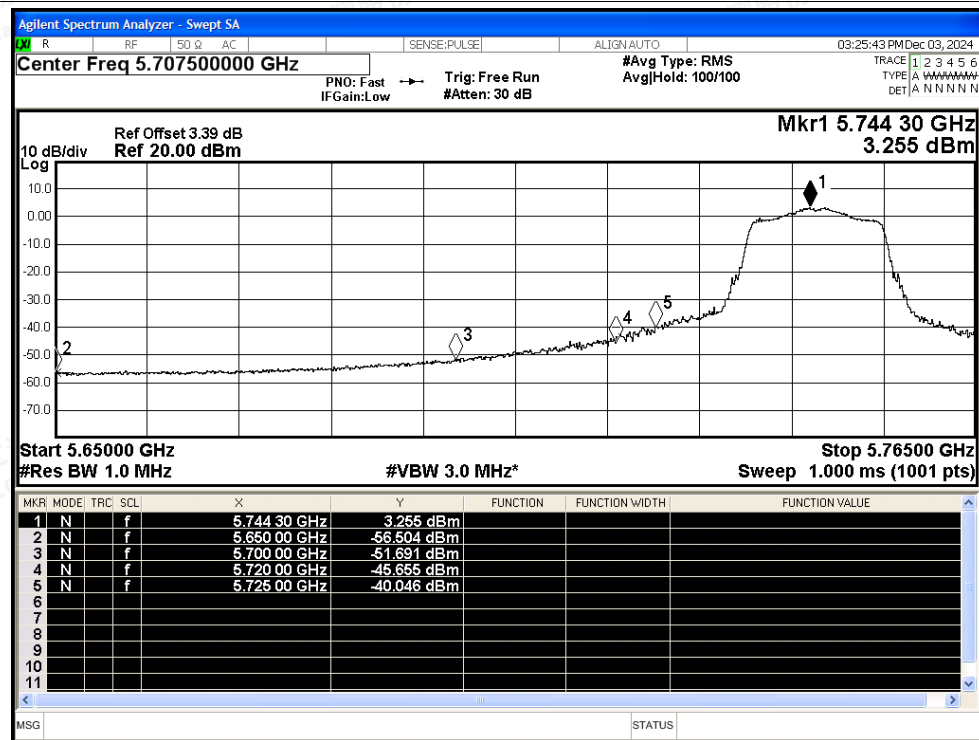


Test Graphs

Restrict Band NVNT a 5745MHz Ant1 Peak

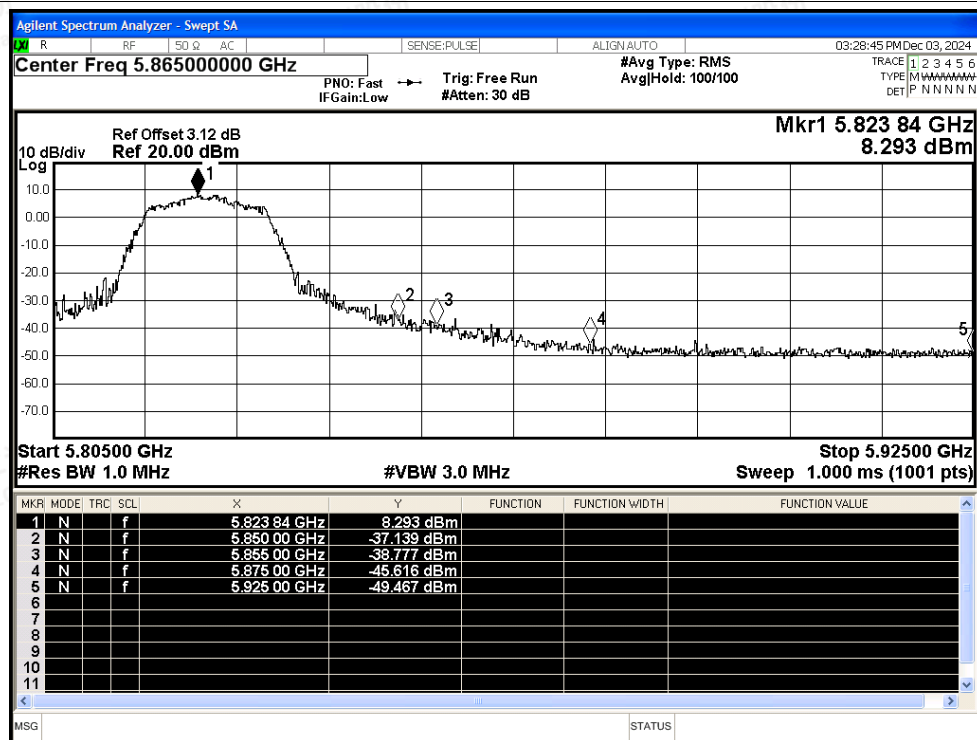


Restrict Band NVNT a 5745MHz Ant1 Average

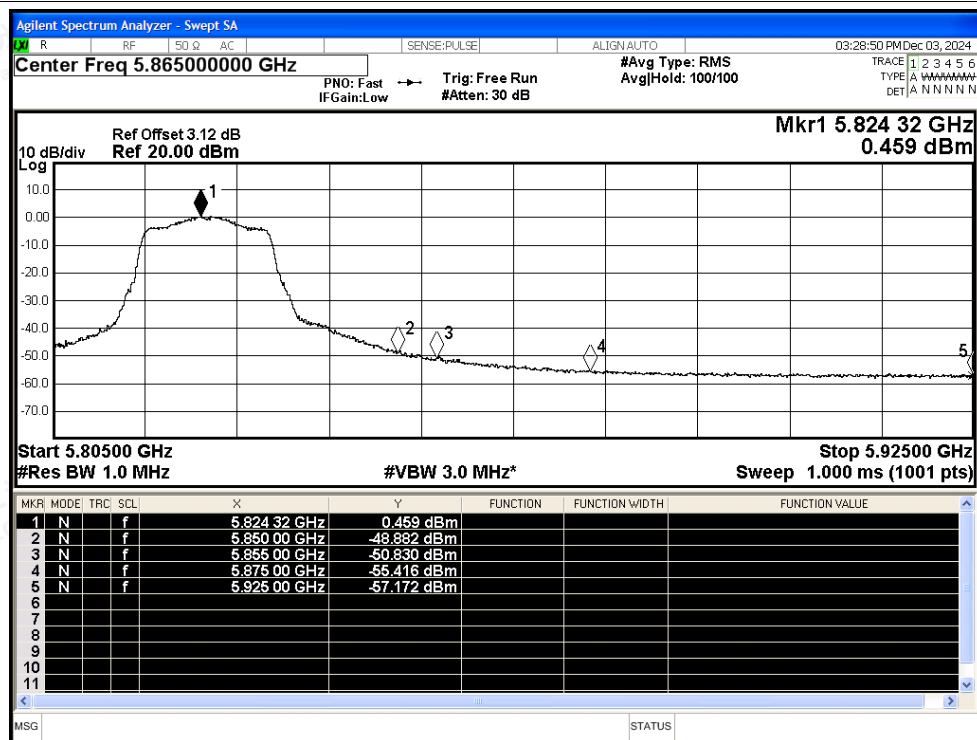




Restrict Band NVNT a 5825MHz Ant1 Peak

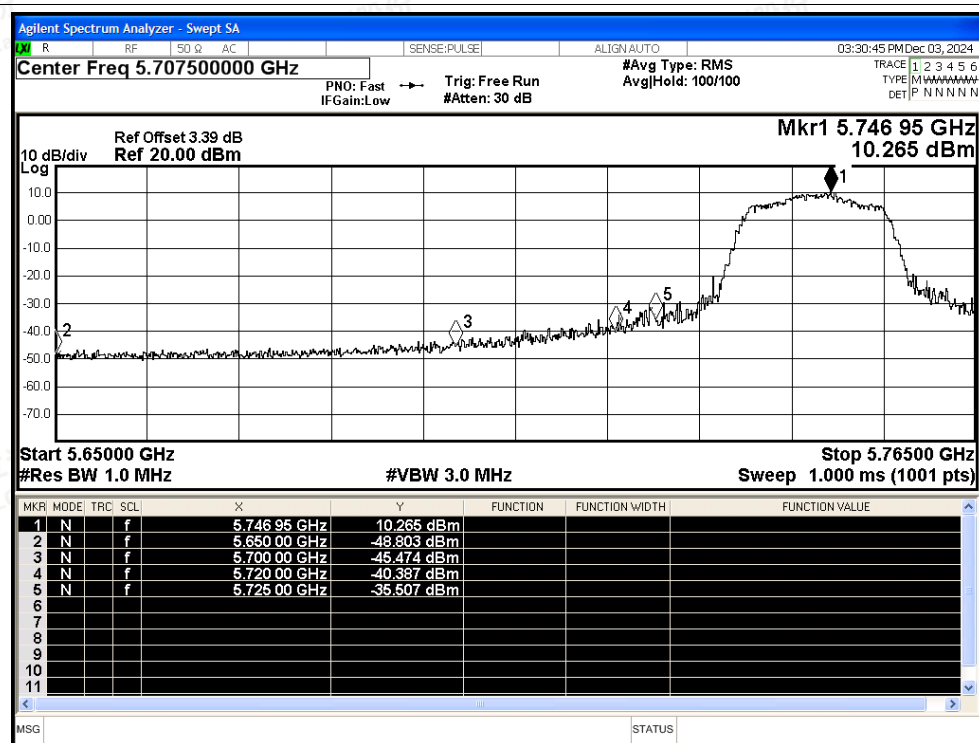


Restrict Band NVNT a 5825MHz Ant1 Average

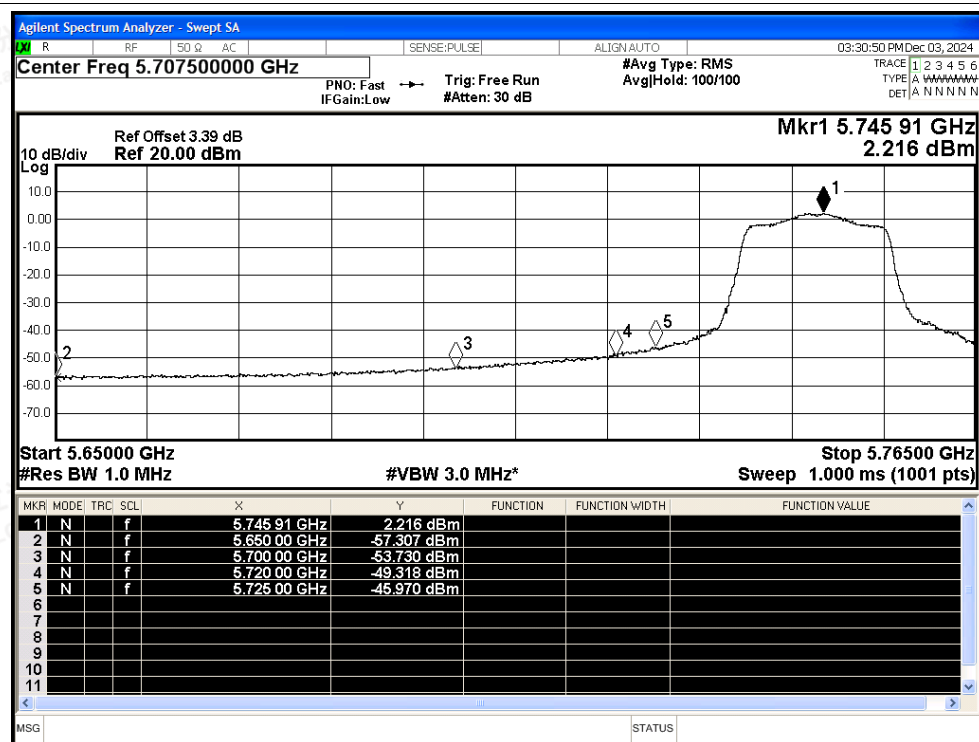




Restrict Band NVNT n20 5745MHz Ant1 Peak

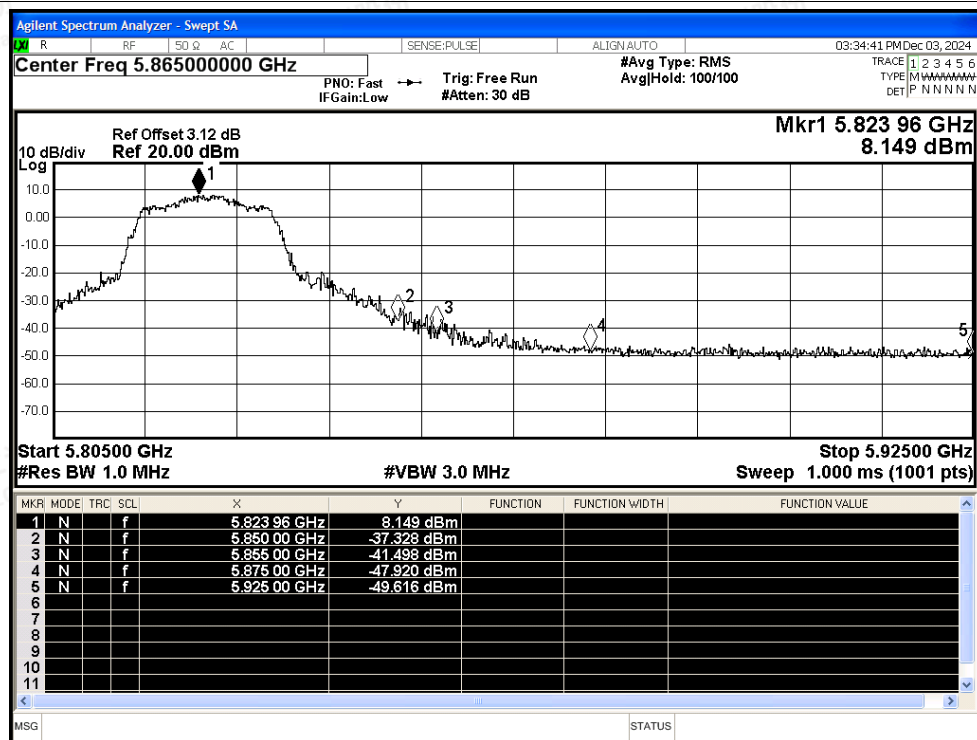


Restrict Band NVNT n20 5745MHz Ant1 Average

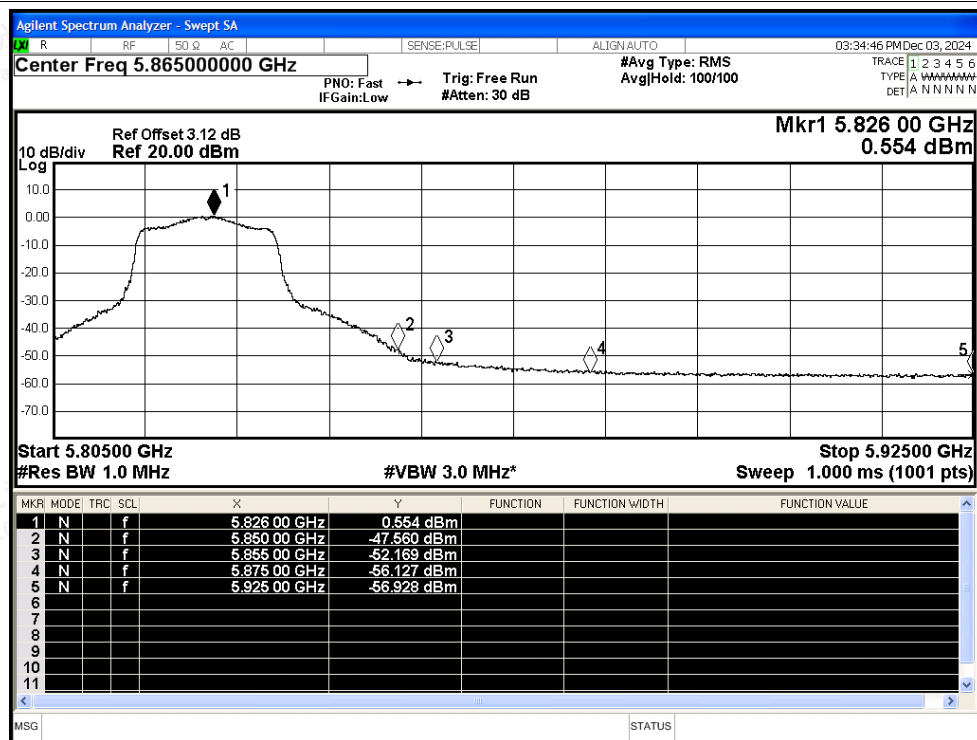




Restrict Band NVNT n20 5825MHz Ant1 Peak

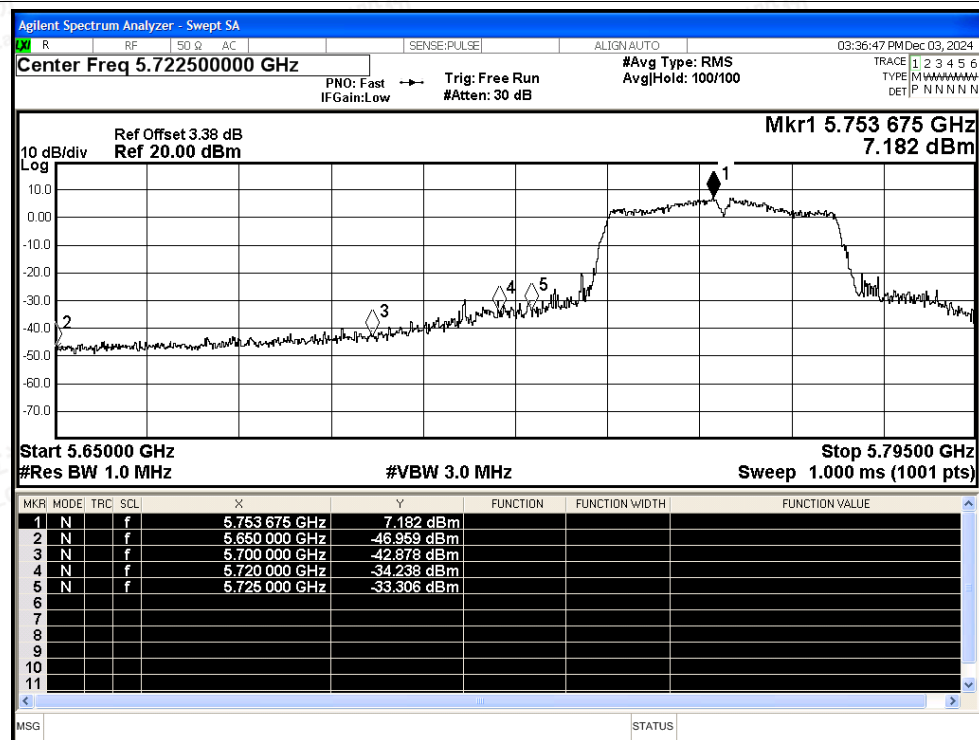


Restrict Band NVNT n20 5825MHz Ant1 Average

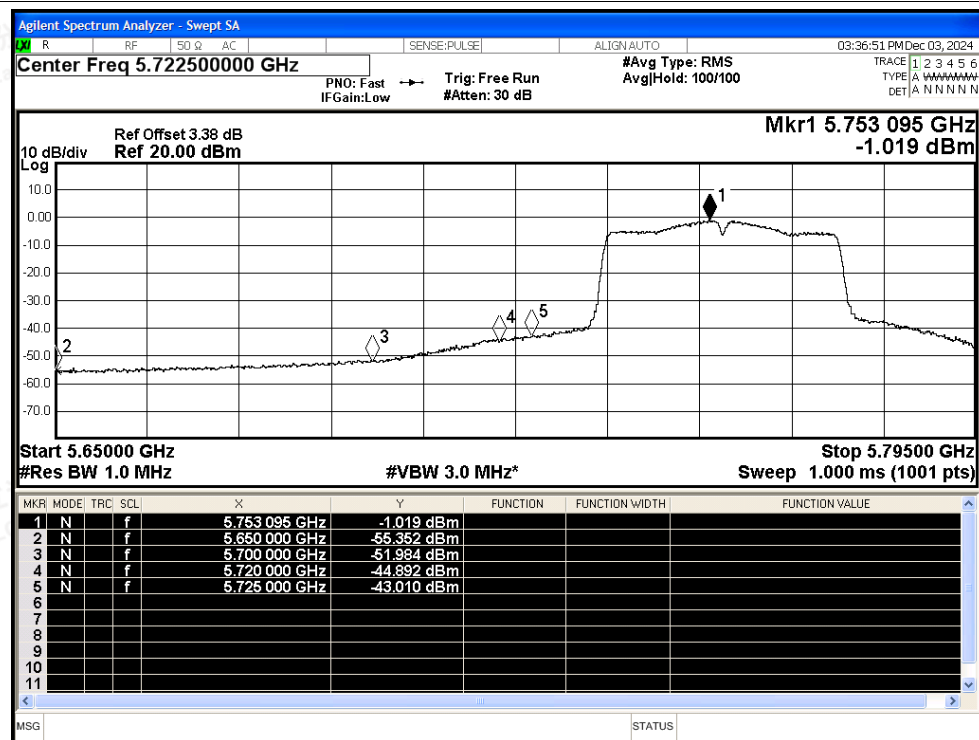




Restrict Band NVNT n40 5755MHz Ant1 Peak

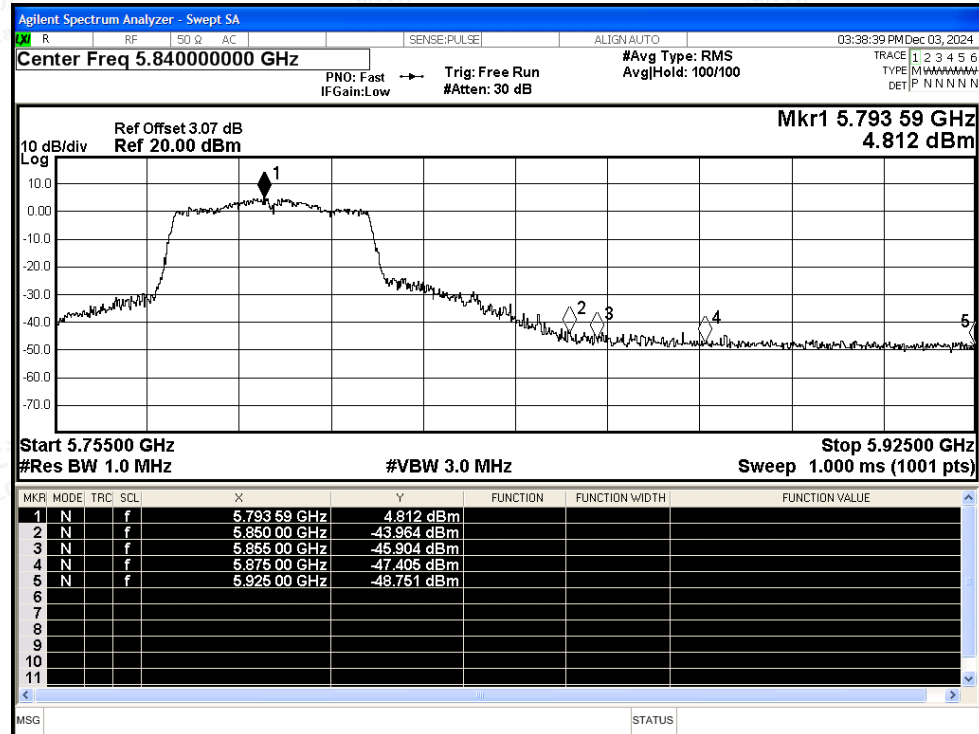


Restrict Band NVNT n40 5755MHz Ant1 Average

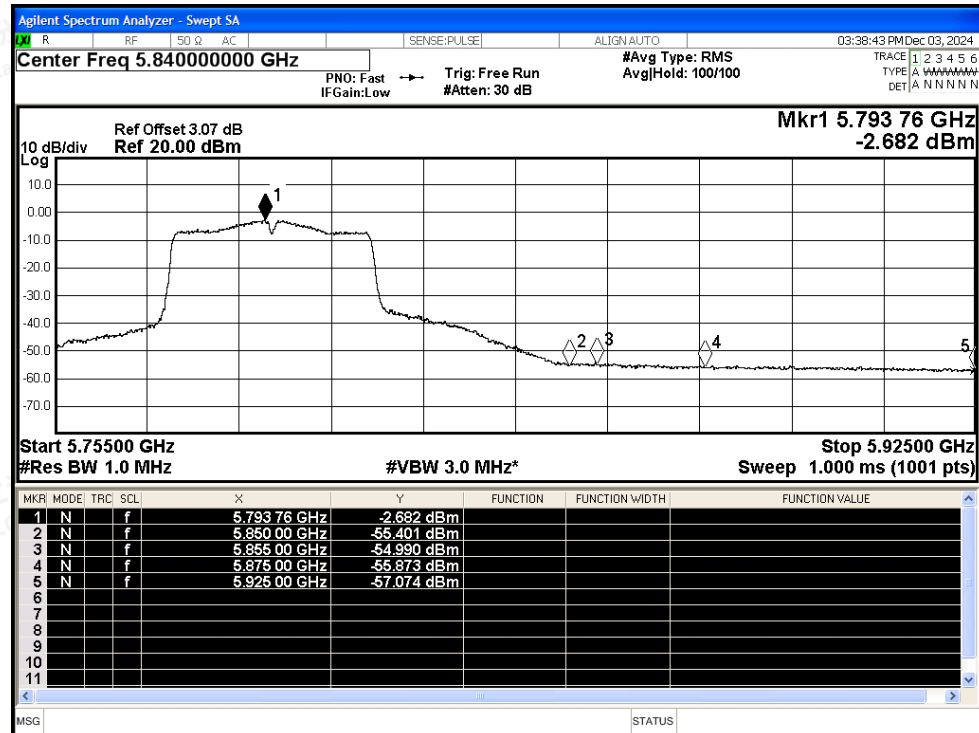




Restrict Band NVNT n40 5795MHz Ant1 Peak

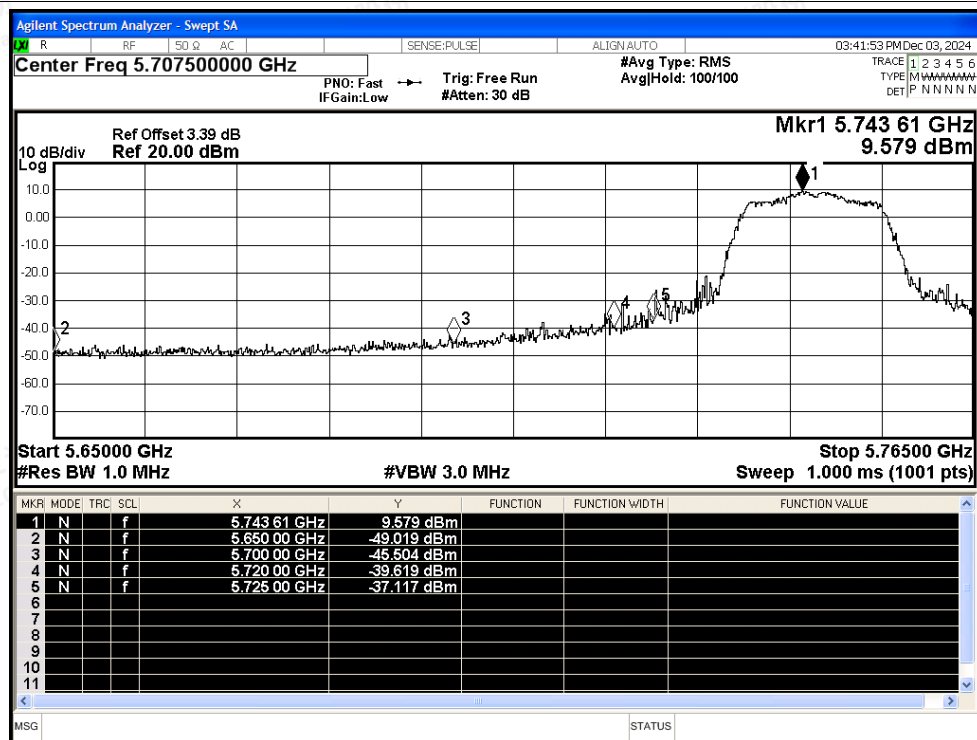


Restrict Band NVNT n40 5795MHz Ant1 Average

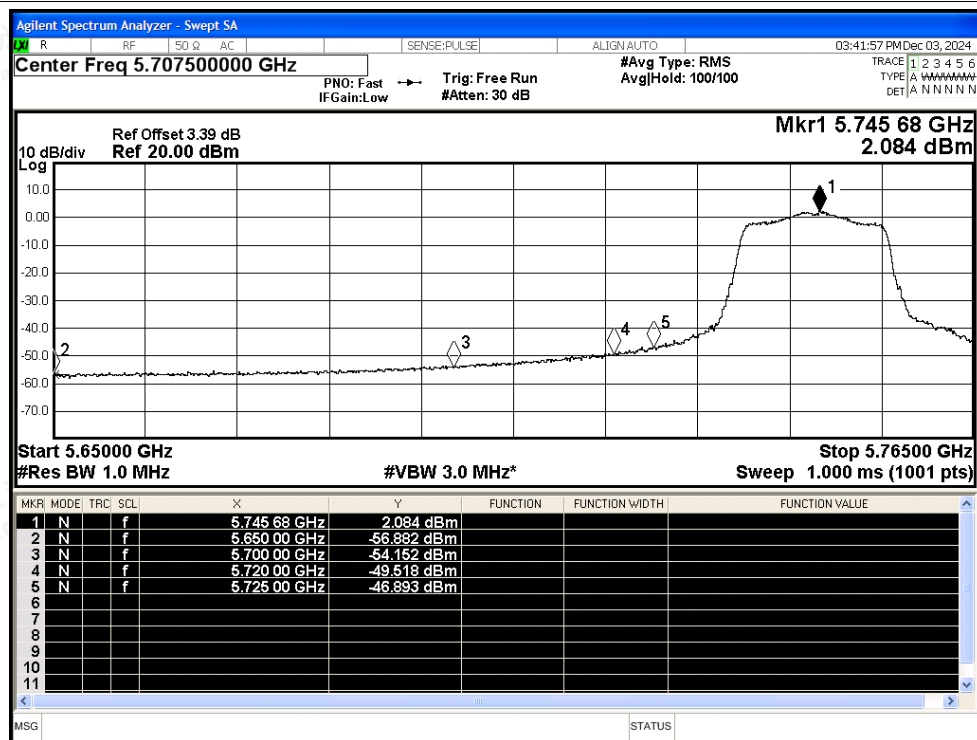




Restrict Band NVNT ac20 5745MHz Ant1 Peak

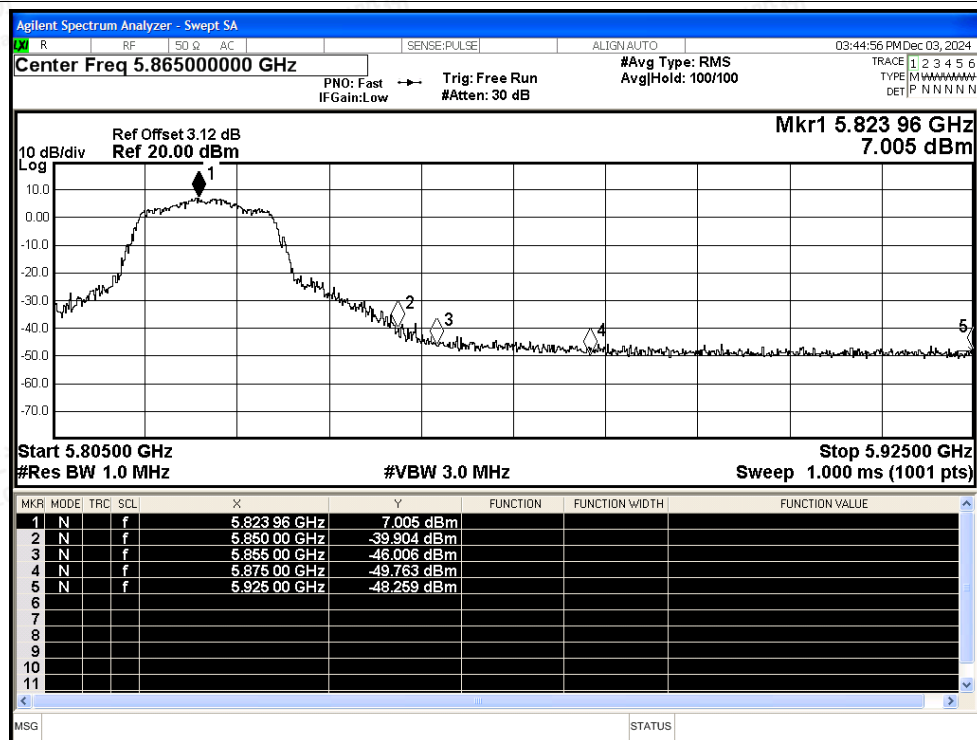


Restrict Band NVNT ac20 5745MHz Ant1 Average

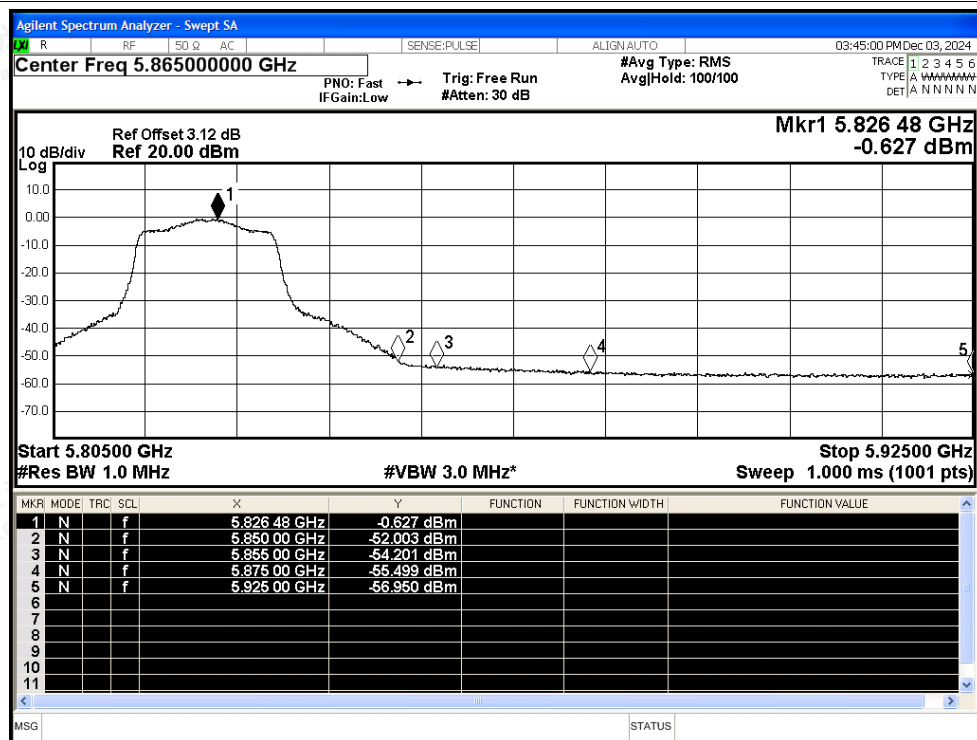




Restrict Band NVNT ac20 5825MHz Ant1 Peak

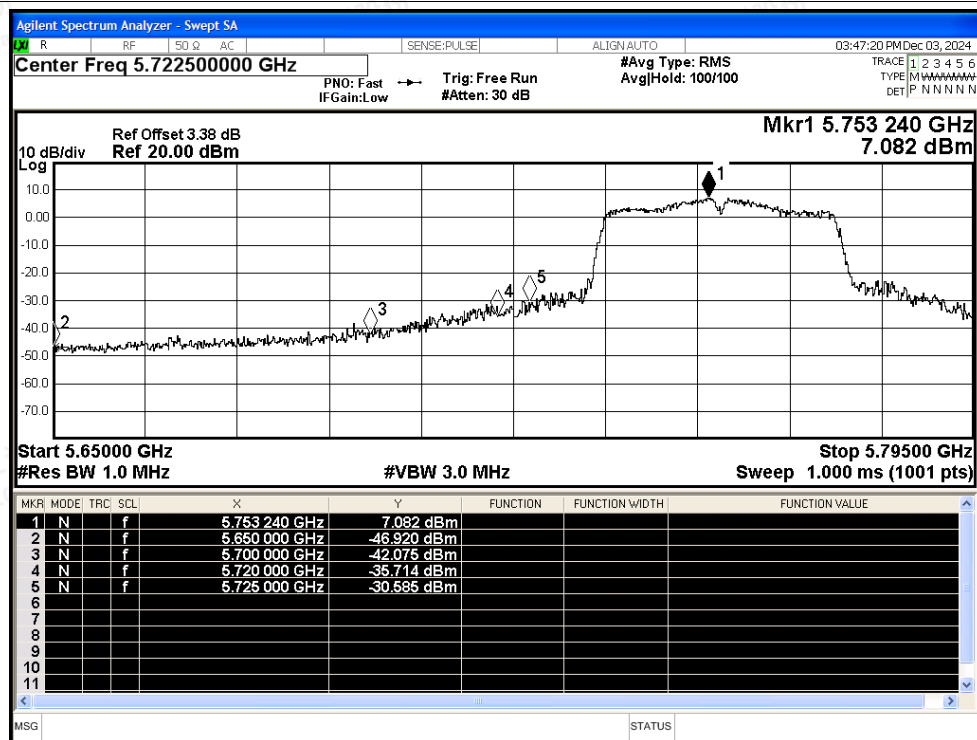


Restrict Band NVNT ac20 5825MHz Ant1 Average

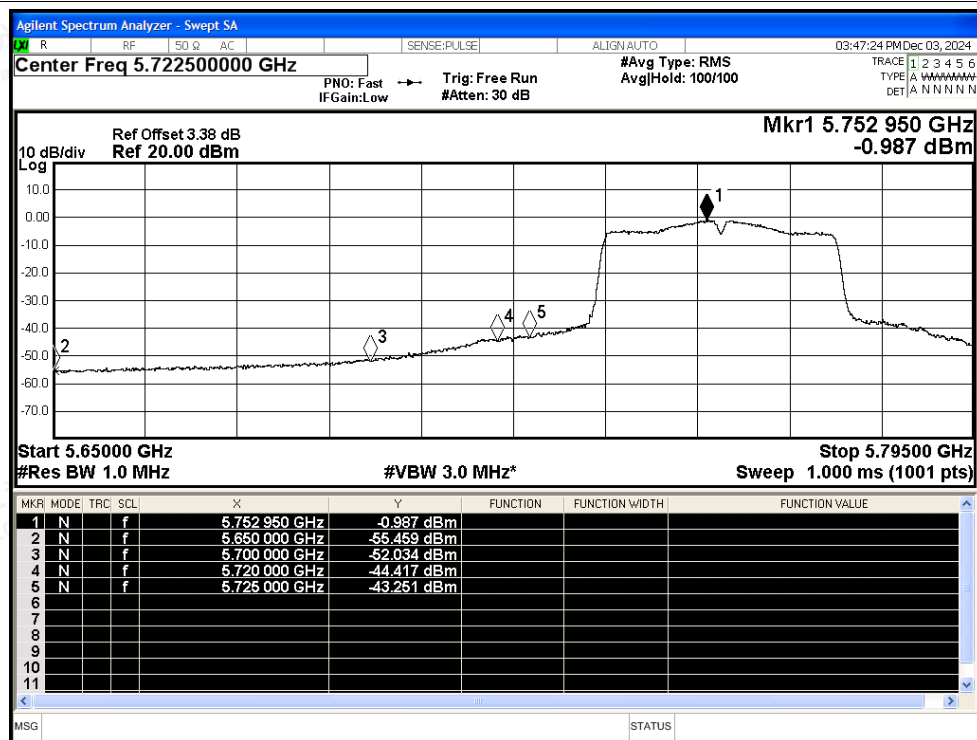




Restrict Band NVNT ac40 5755MHz Ant1 Peak

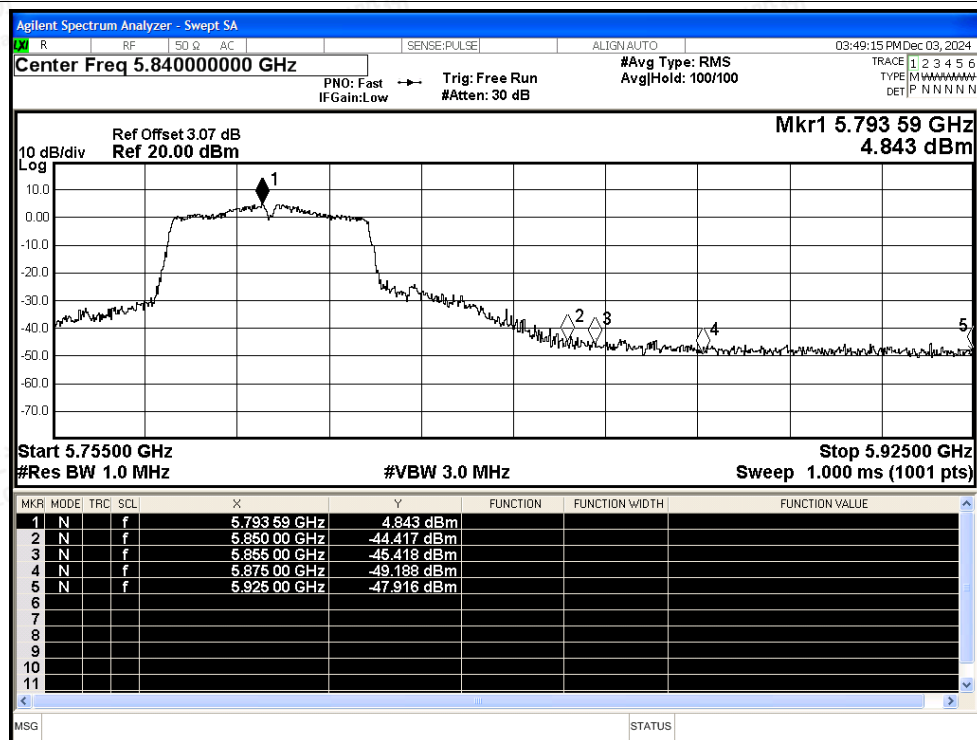


Restrict Band NVNT ac40 5755MHz Ant1 Average

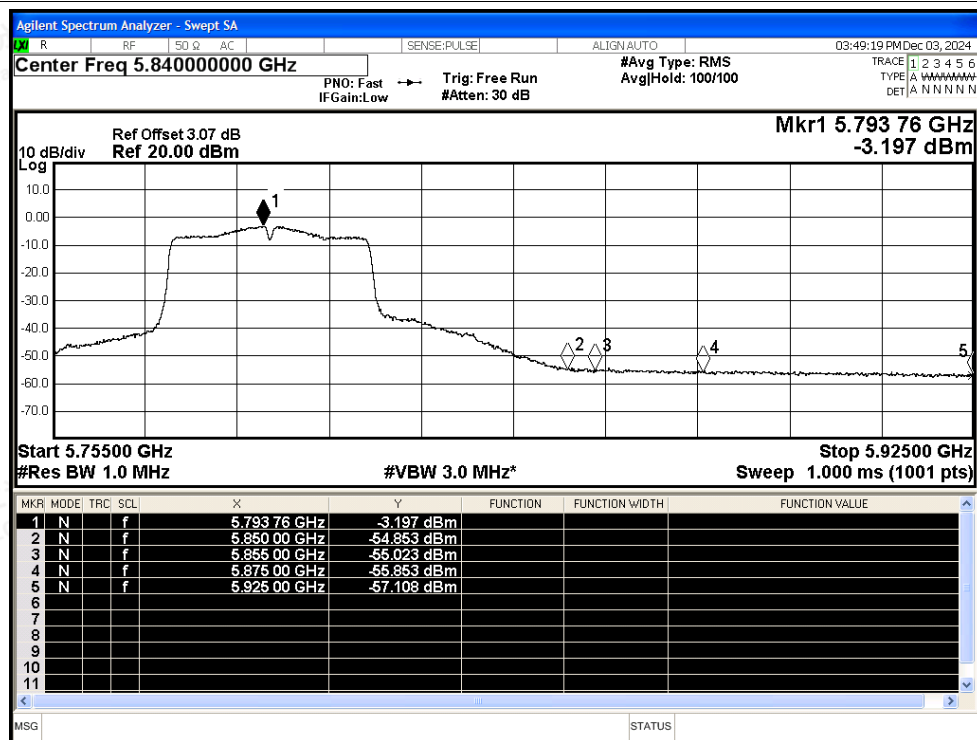




Restrict Band NVNT ac40 5795MHz Ant1 Peak

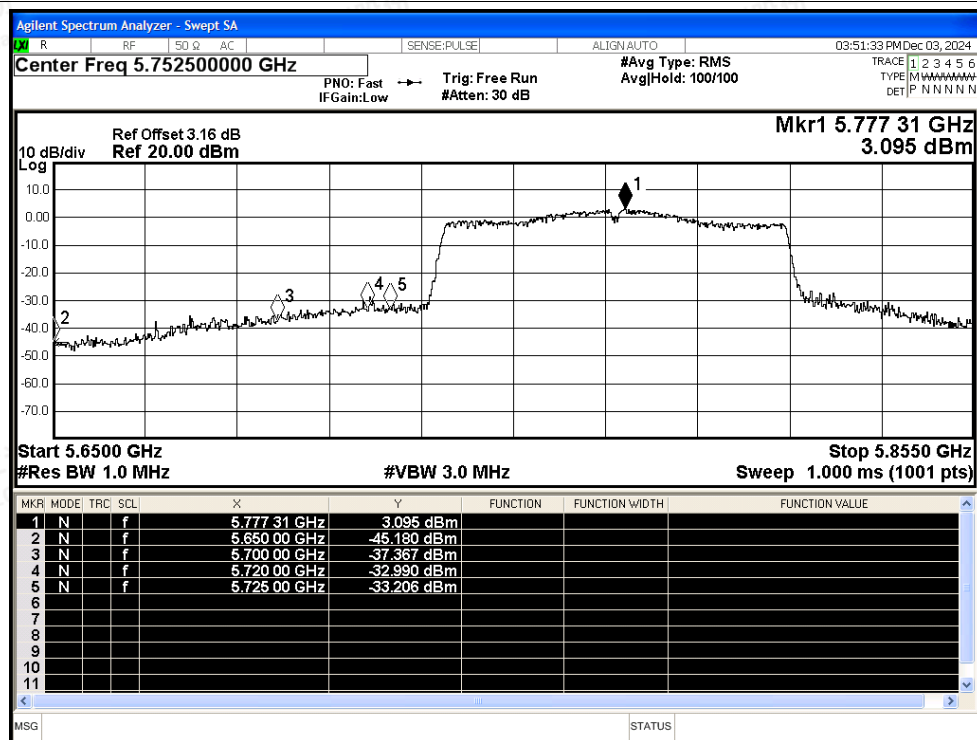


Restrict Band NVNT ac40 5795MHz Ant1 Average

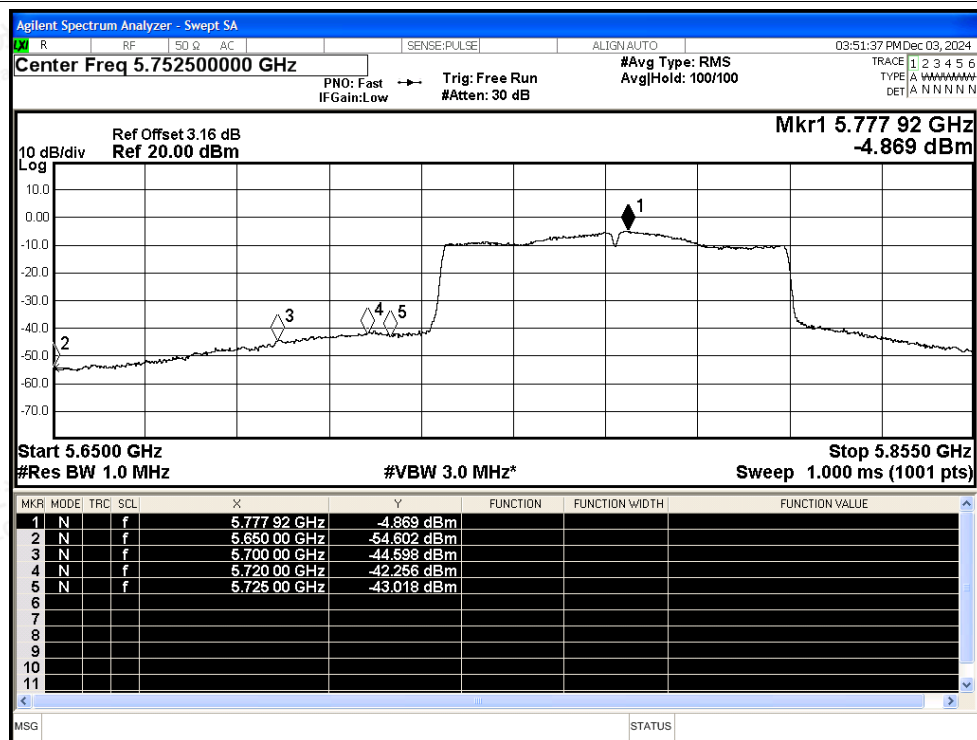




Restrict Band NVNT ac80 5775MHz Ant1 Peak

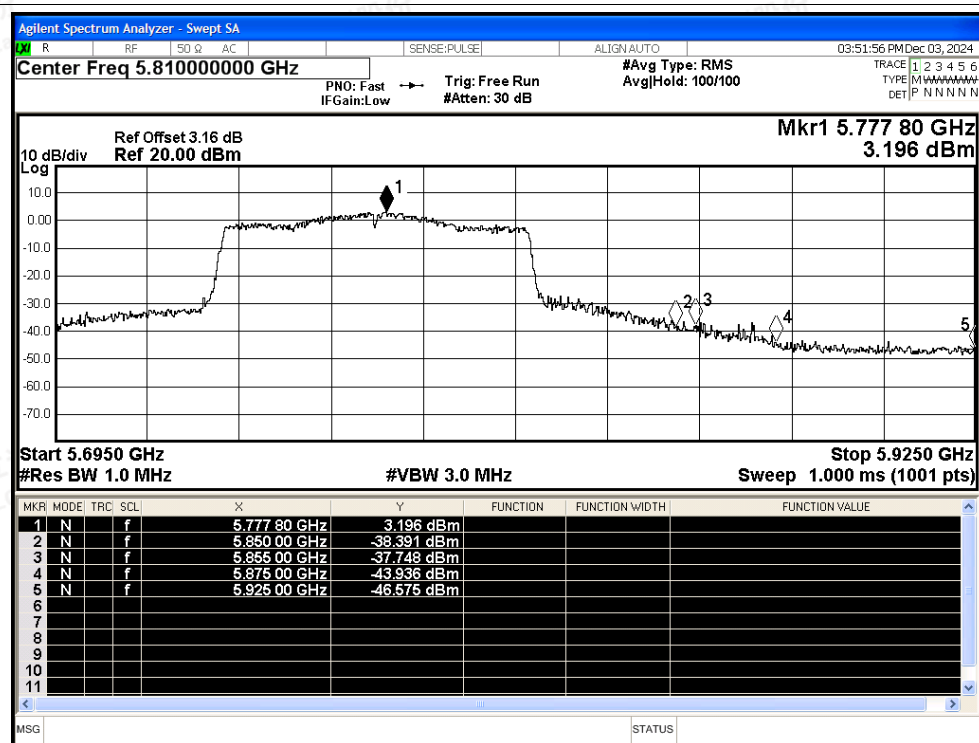


Restrict Band NVNT ac80 5775MHz Ant1 Average

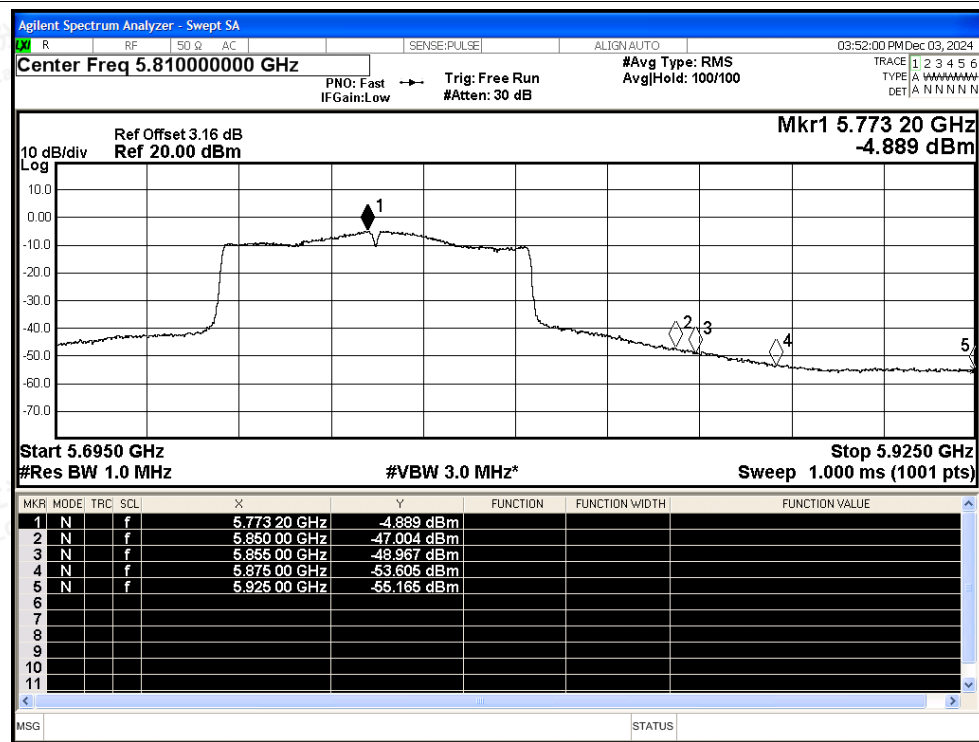




Restrict Band NVNT ac80 5775MHz Ant1 Peak



Restrict Band NVNT ac80 5775MHz Ant1 Average





E.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5745	0	0	25	Pass
NVNT	a	5785	Ant1	5785	0	0	25	Pass
NVNT	a	5825	Ant1	5825.02	20000	3.43	25	Pass
NVNT	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NVNT	n20	5825	Ant1	5825	0	0	25	Pass
NVNT	n40	5755	Ant1	5755	0	0	25	Pass
NVNT	n40	5795	Ant1	5795	0	0	25	Pass
NVNT	ac20	5745	Ant1	5745	0	0	25	Pass
NVNT	ac20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NVNT	ac20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
NVNT	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
NVNT	ac40	5795	Ant1	5795	0	0	25	Pass
NVNT	ac80	5775	Ant1	5775	0	0	25	Pass

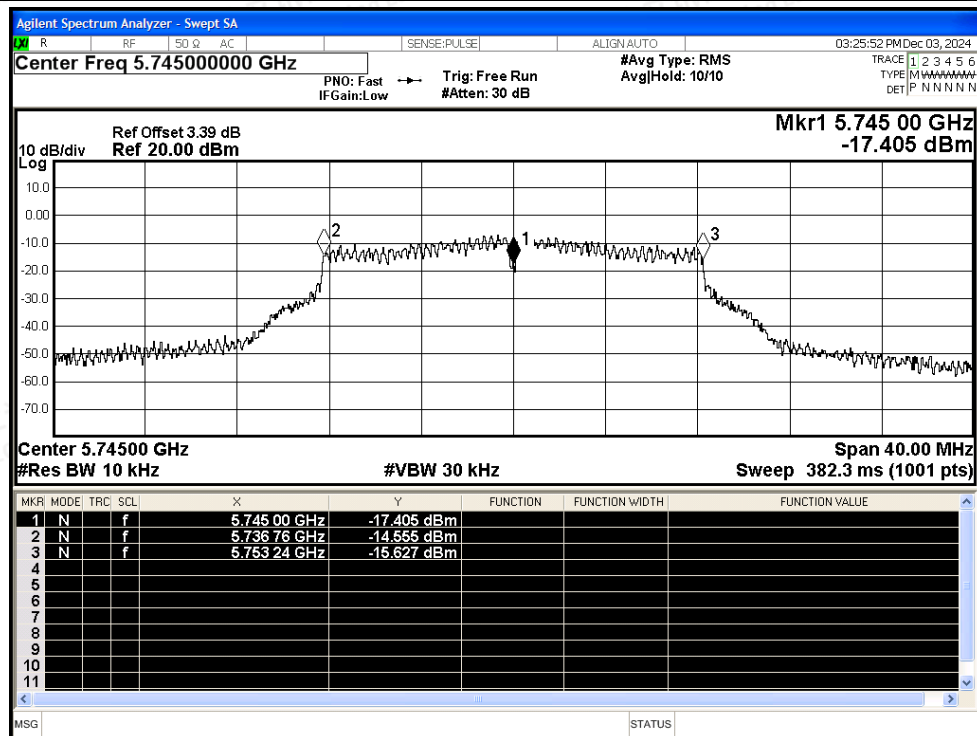


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Baoan District, Shenzhen, 518000, China
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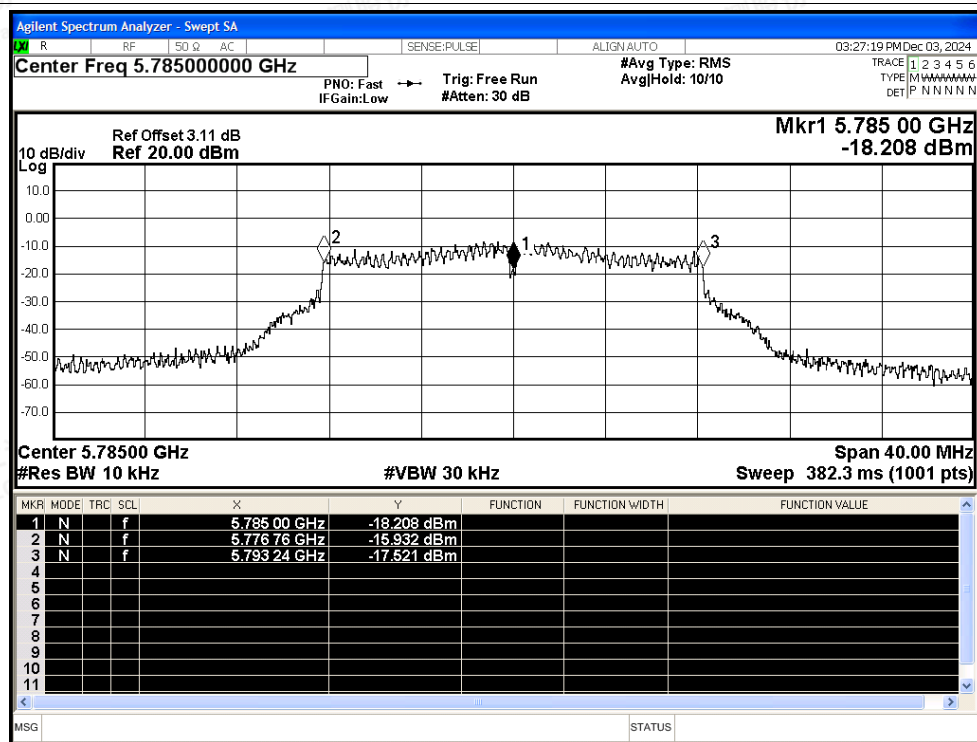


Test Graphs

Freq. Stability NVNT a 5745MHz Ant1

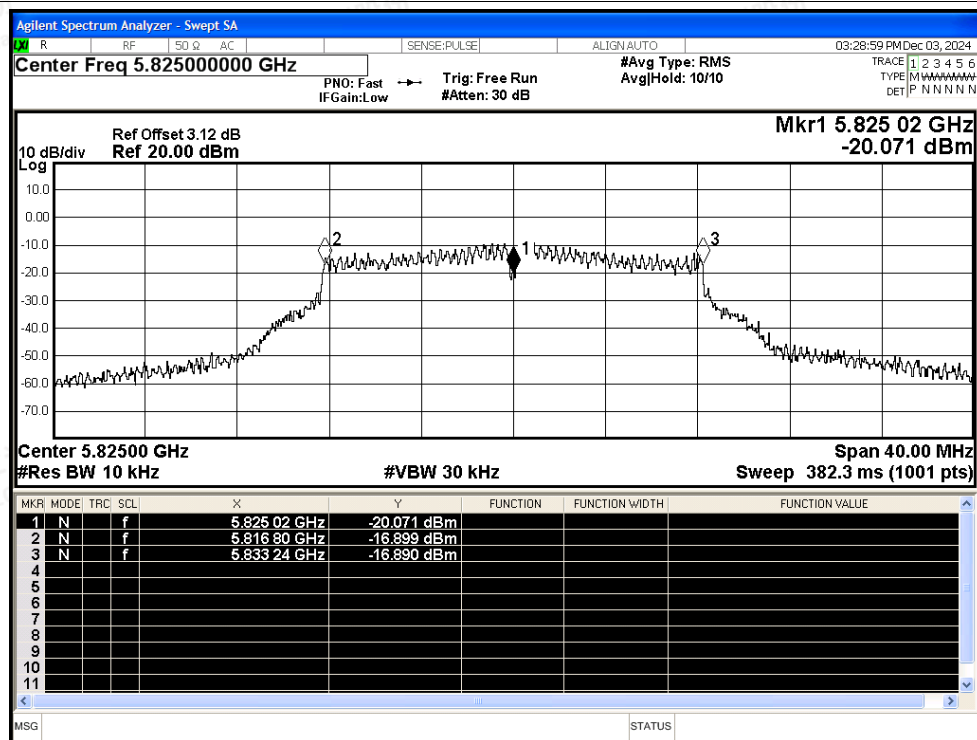


Freq. Stability NVNT a 5785MHz Ant1

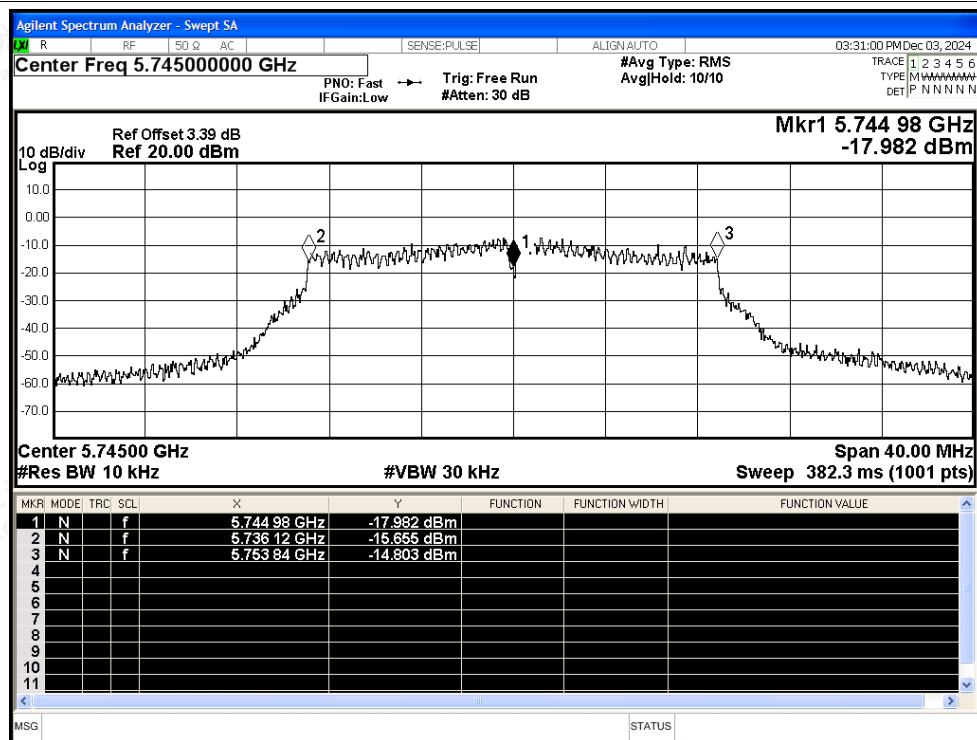


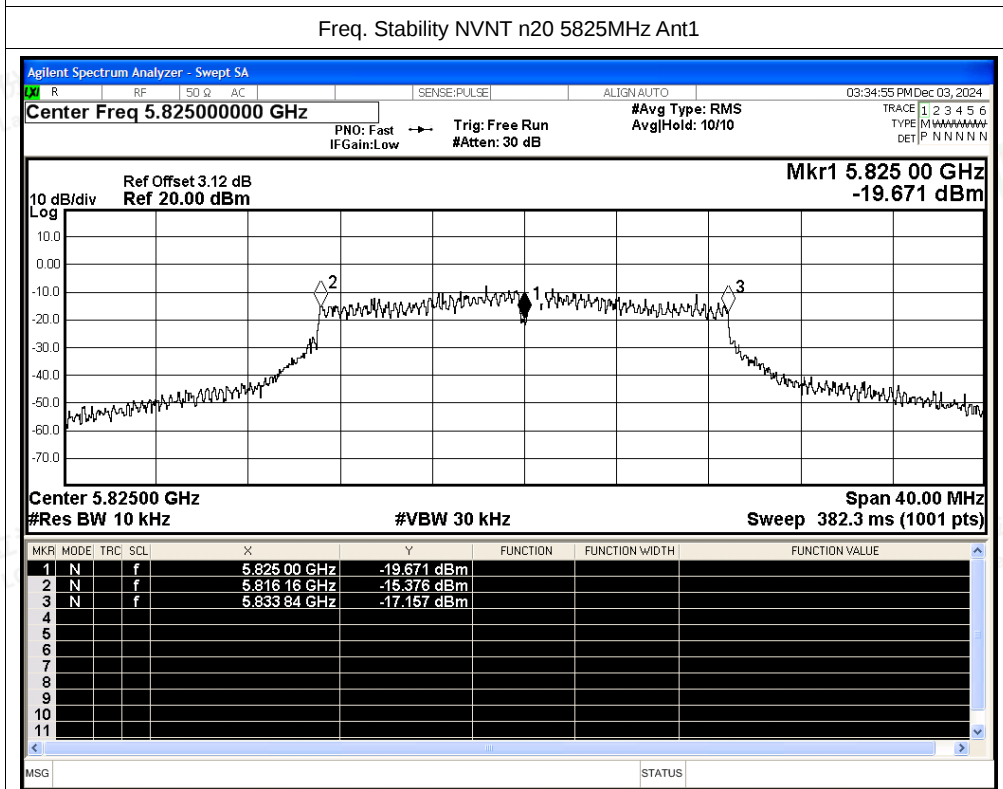
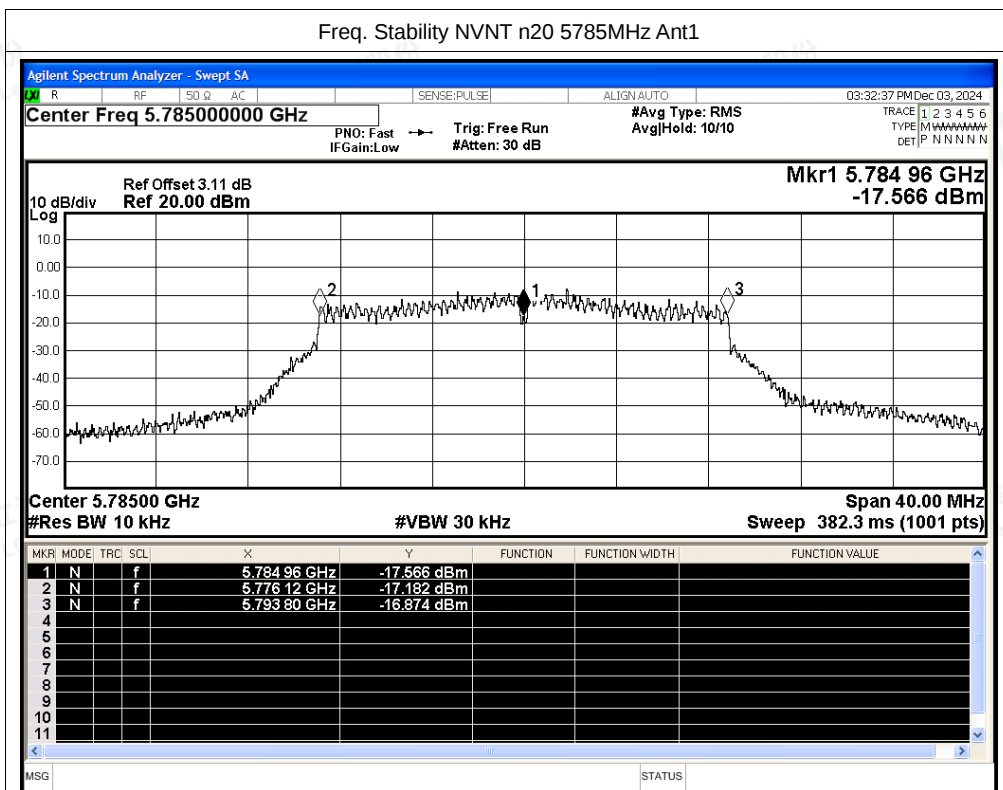


Freq. Stability NVNT a 5825MHz Ant1



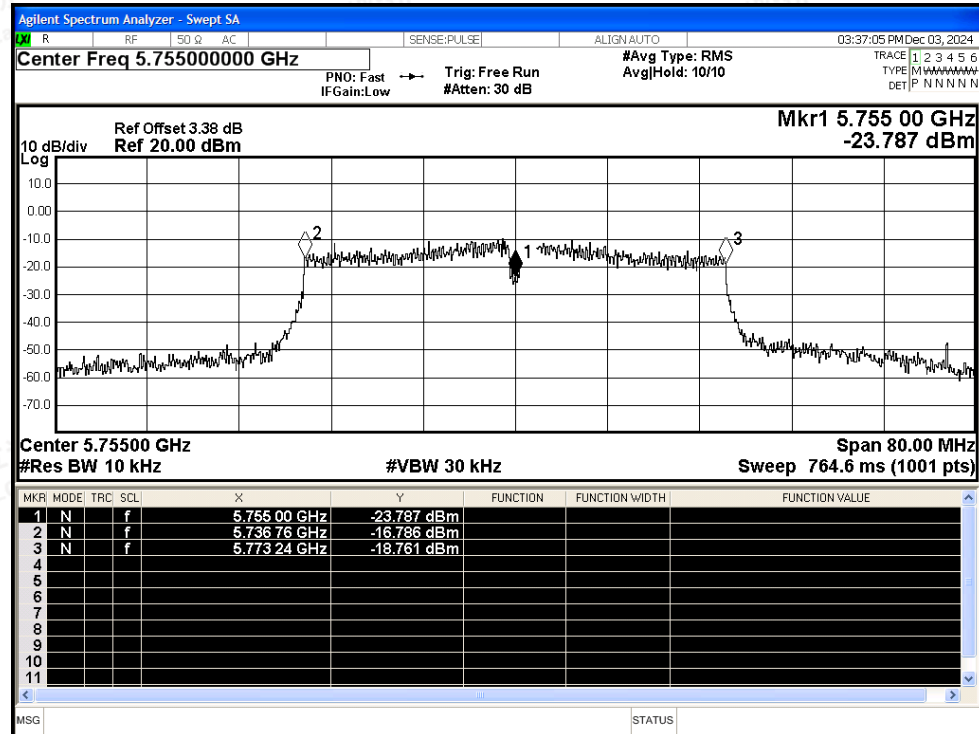
Freq. Stability NVNT n20 5745MHz Ant1



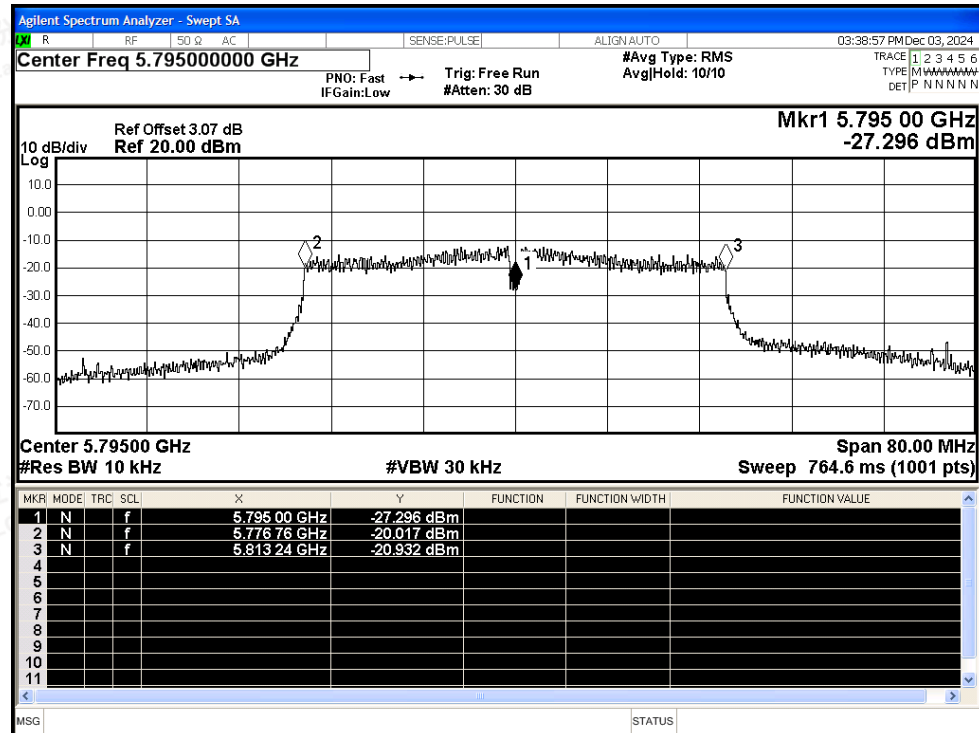


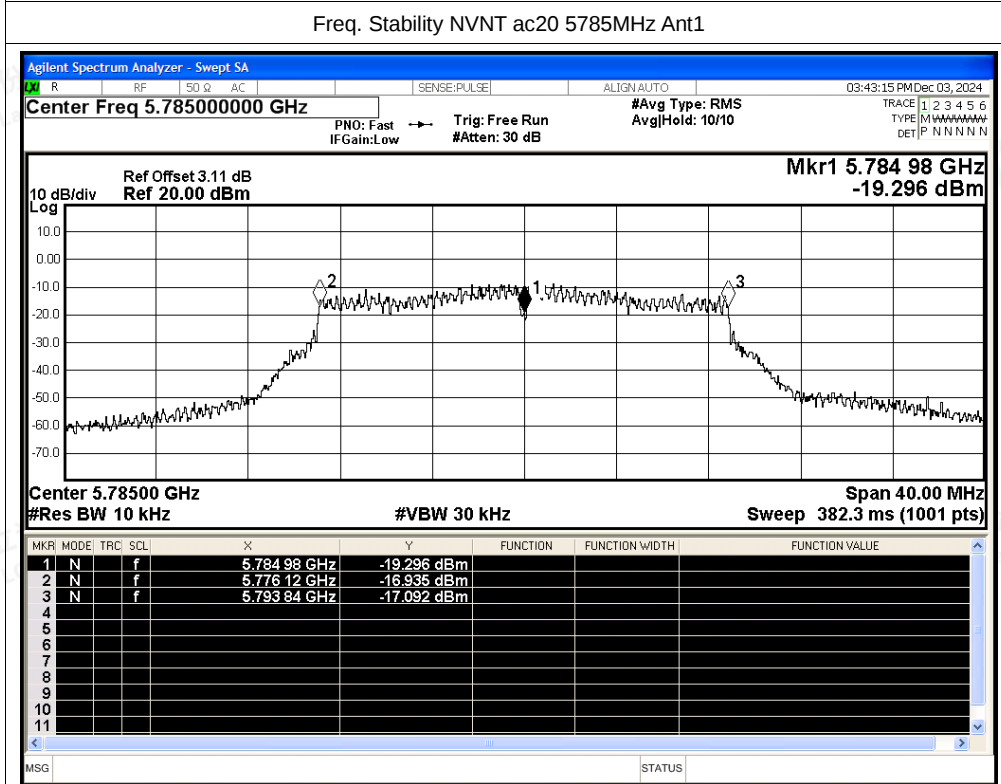
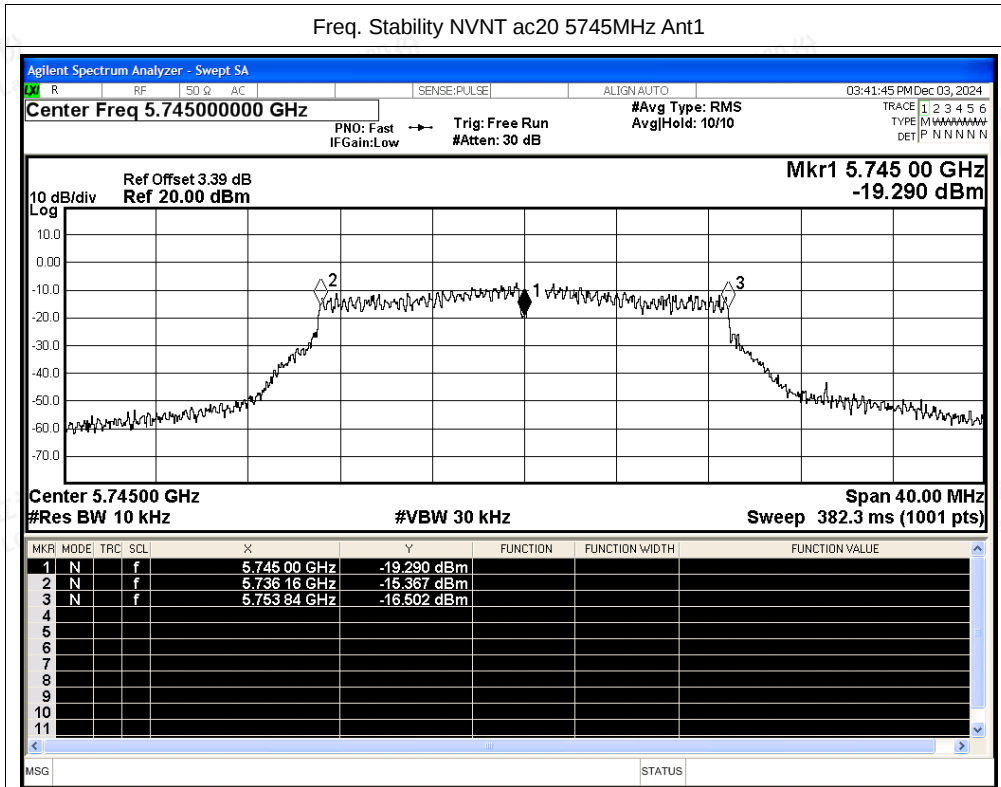


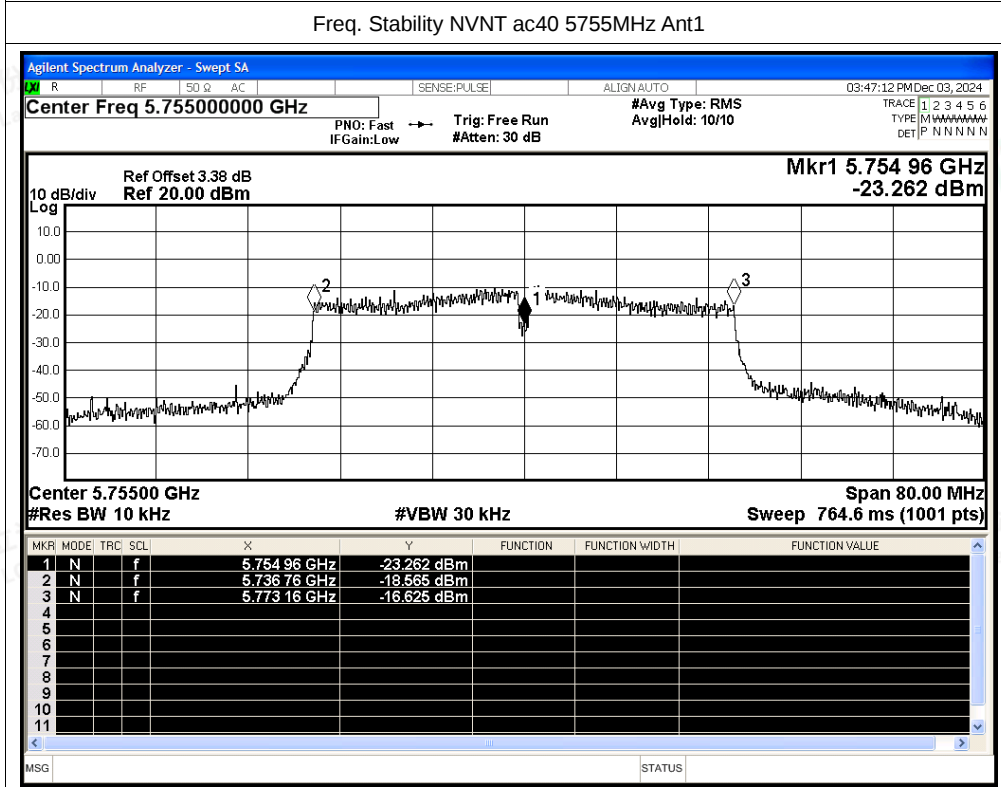
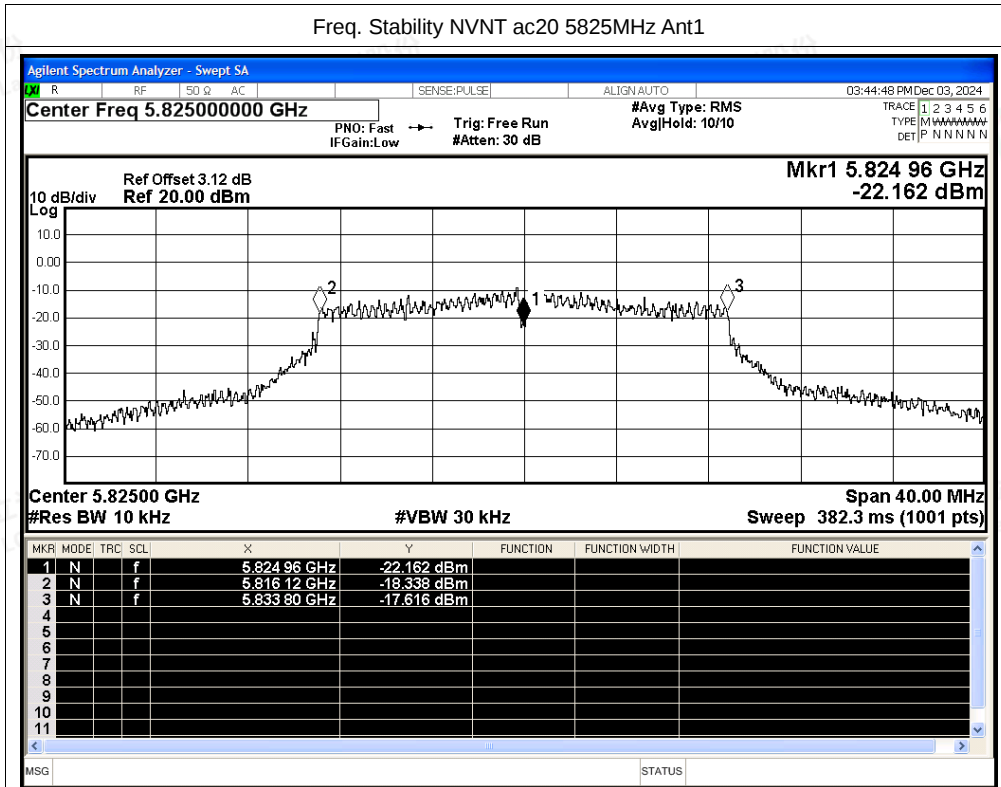
Freq. Stability NVNT n40 5755MHz Ant1



Freq. Stability NVNT n40 5795MHz Ant1

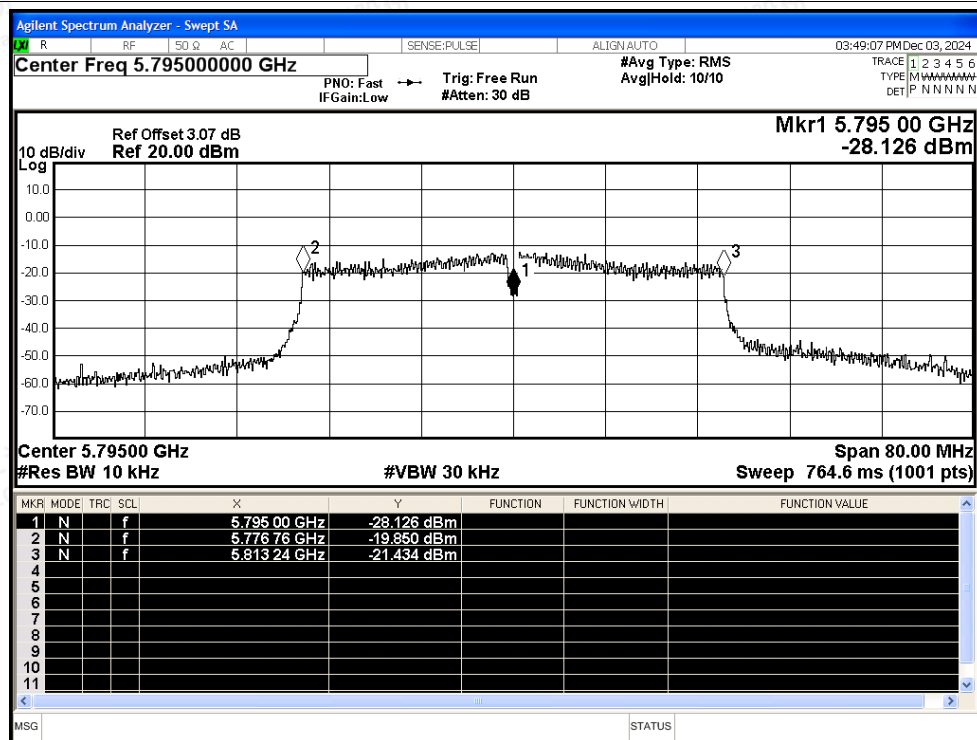




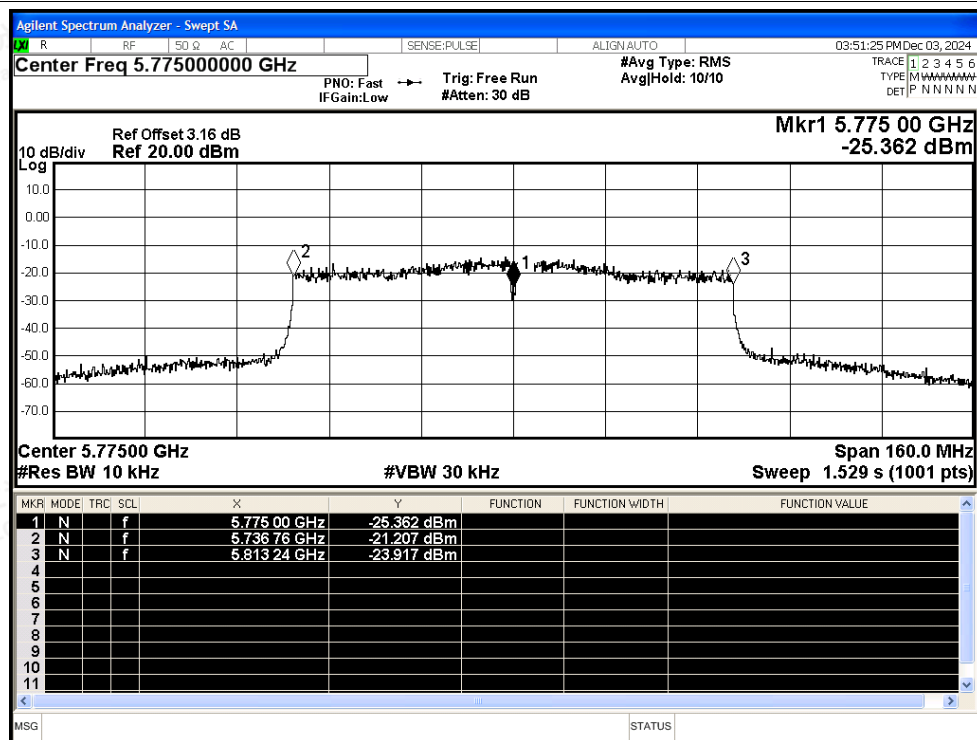




Freq. Stability NVNT ac40 5795MHz Ant1



Freq. Stability NVNT ac80 5775MHz Ant1





E.6 Duty Cycle

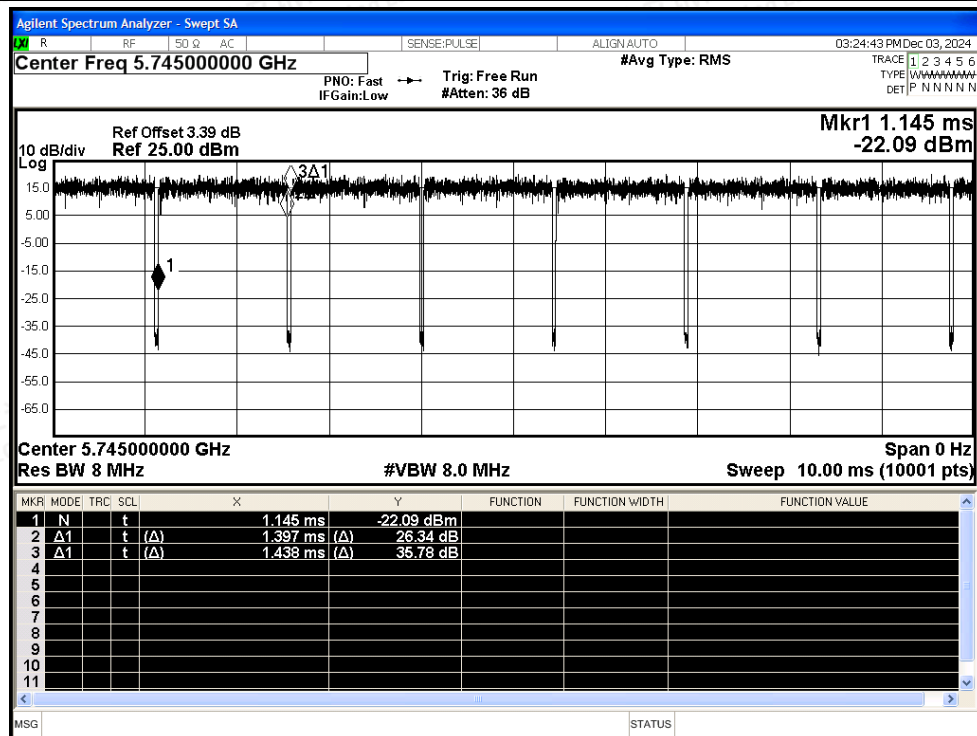
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	97.15	0.13	0.72
NVNT	a	5785	Ant1	97.15	0.13	0.72
NVNT	a	5825	Ant1	97.15	0.13	0.72
NVNT	n20	5745	Ant1	96.96	0.13	0.76
NVNT	n20	5785	Ant1	96.96	0.13	0.76
NVNT	n20	5825	Ant1	96.96	0.13	0.76
NVNT	n40	5755	Ant1	94.19	0.26	1.54
NVNT	n40	5795	Ant1	99.69	0	1.54
NVNT	ac20	5745	Ant1	97.05	0.13	0.76
NVNT	ac20	5785	Ant1	97.05	0.13	0.76
NVNT	ac20	5825	Ant1	96.98	0.13	0.76
NVNT	ac40	5755	Ant1	99.7	0	1.52
NVNT	ac40	5795	Ant1	94.27	0.26	1.52
NVNT	ac80	5775	Ant1	0	0	∞



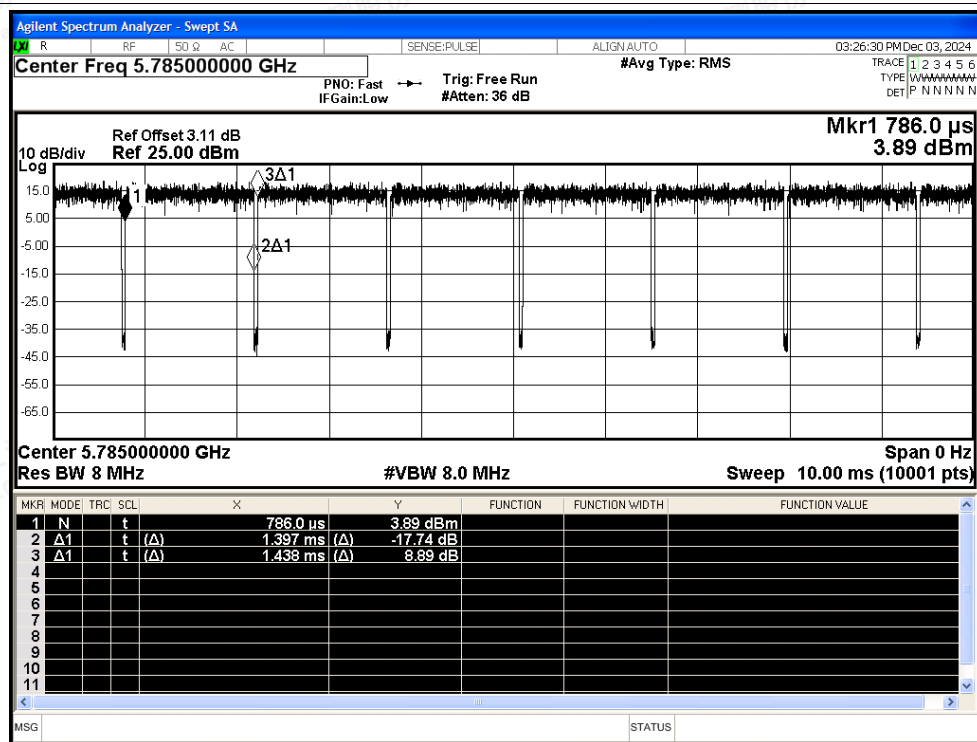


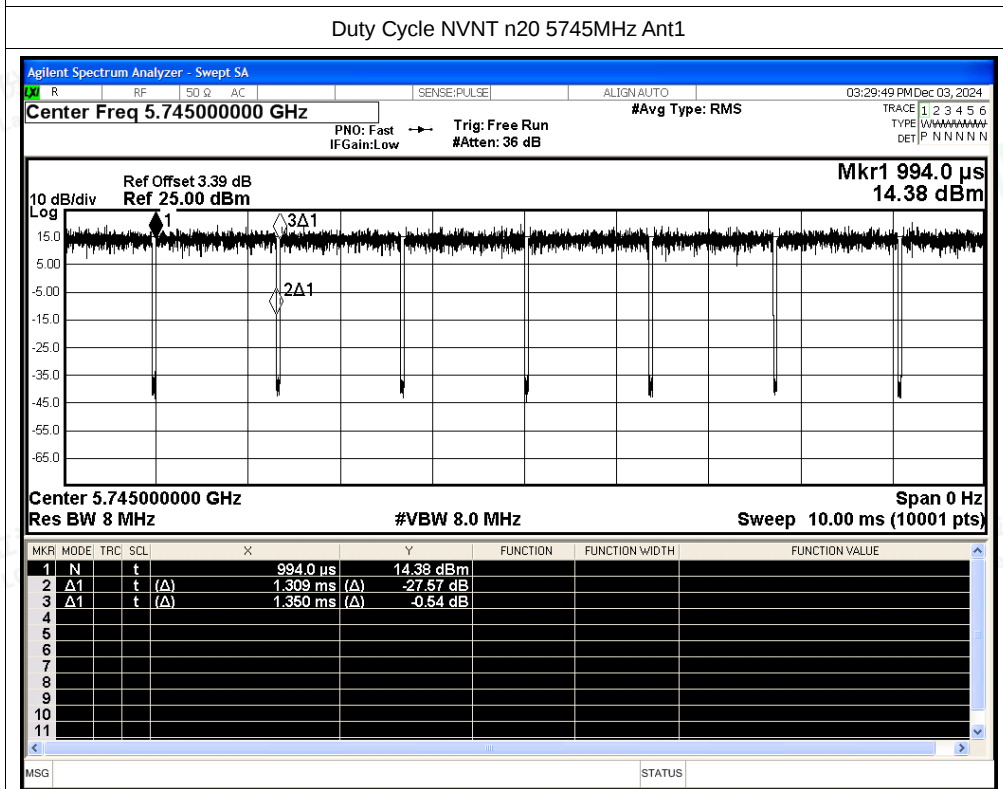
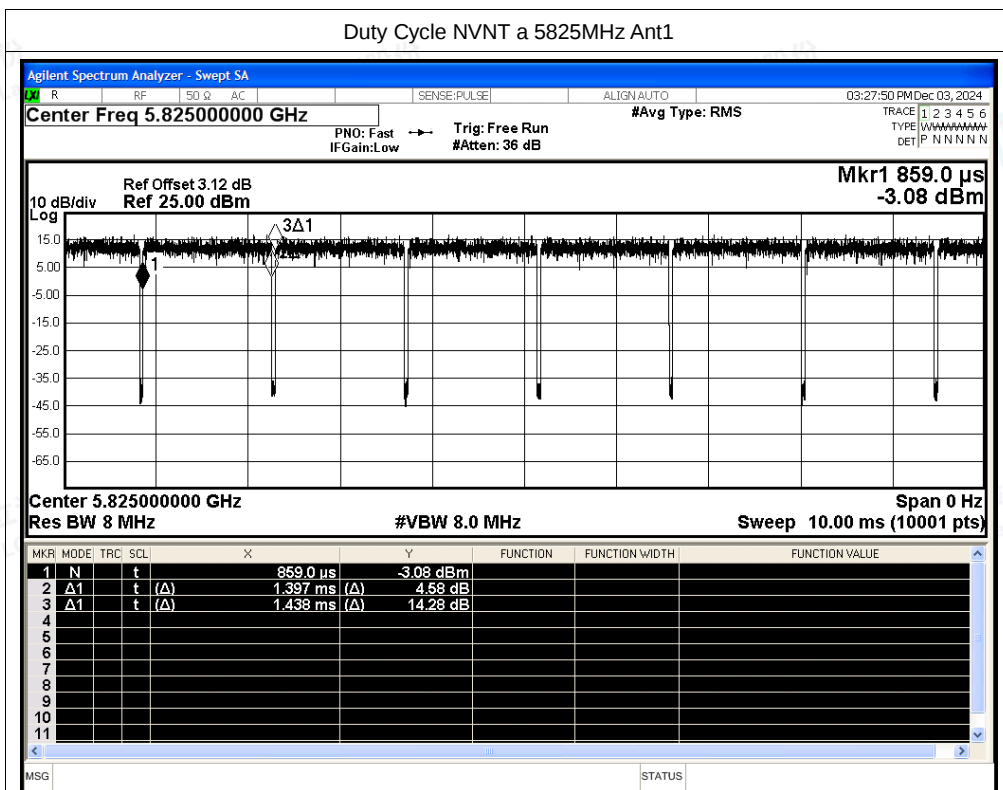
Test Graphs

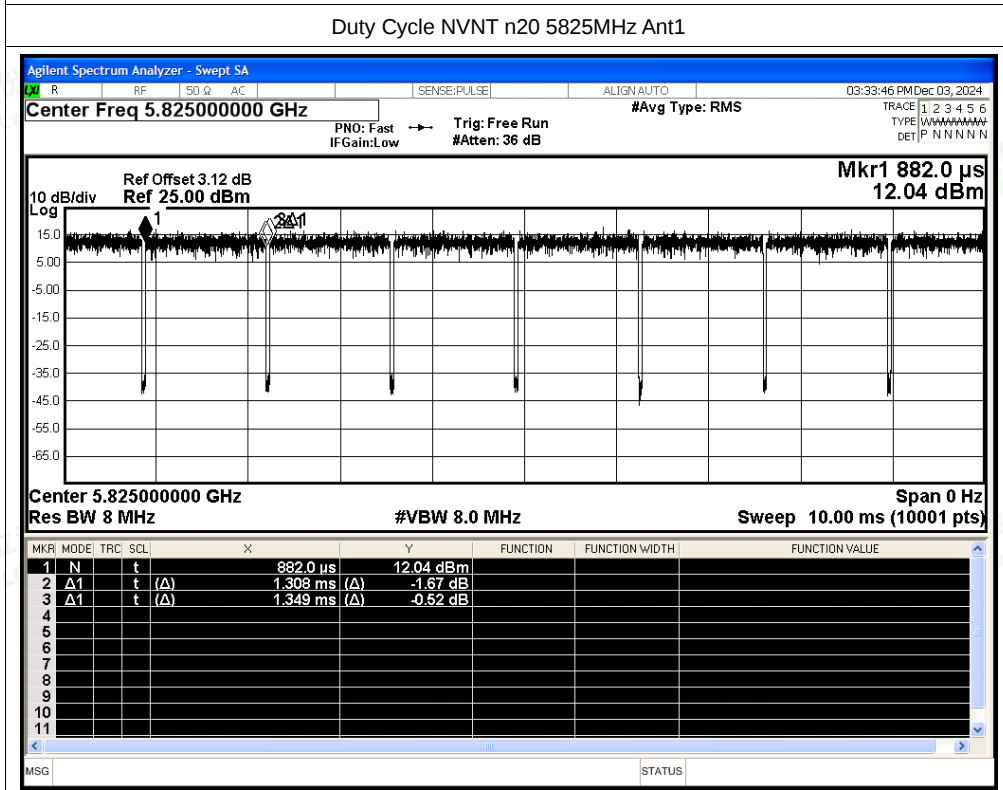
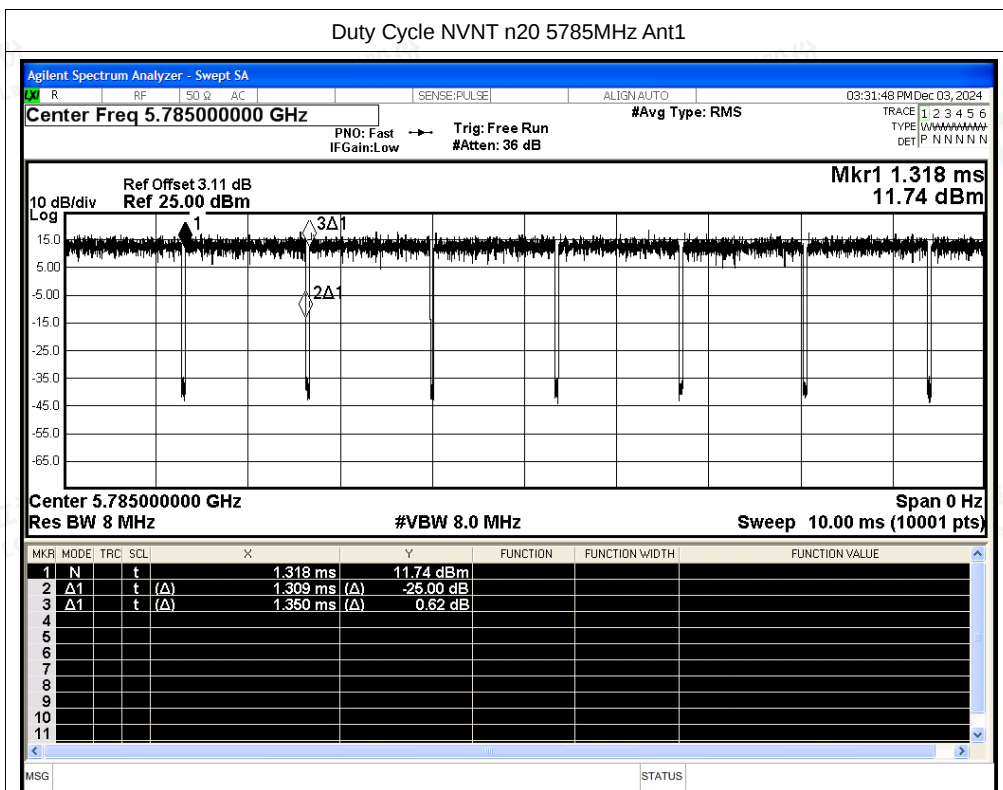
Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1

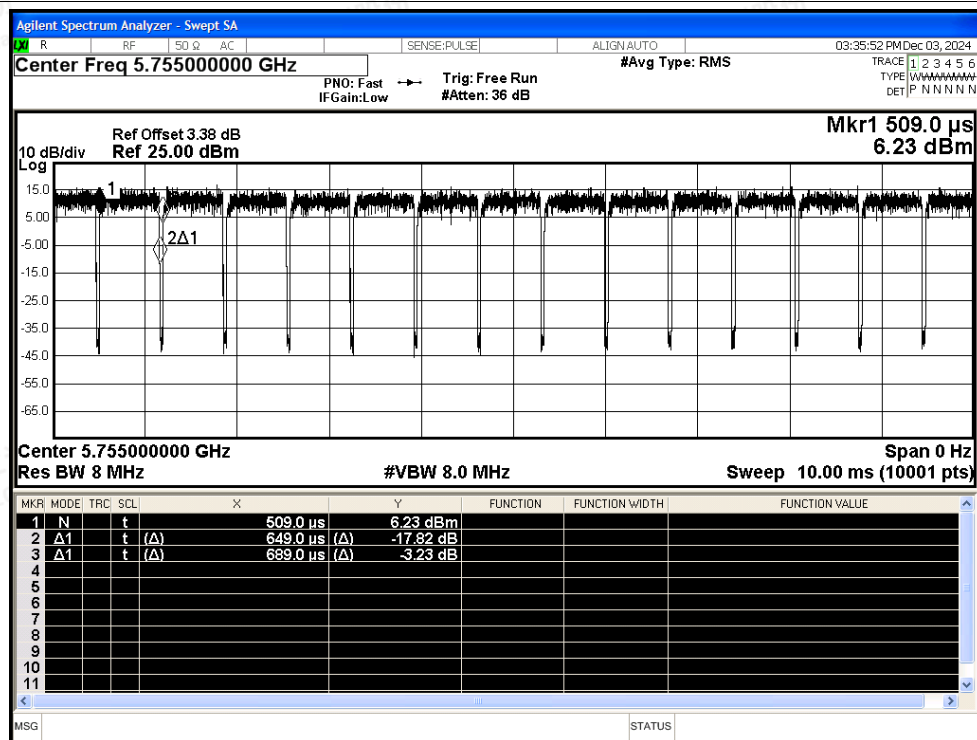




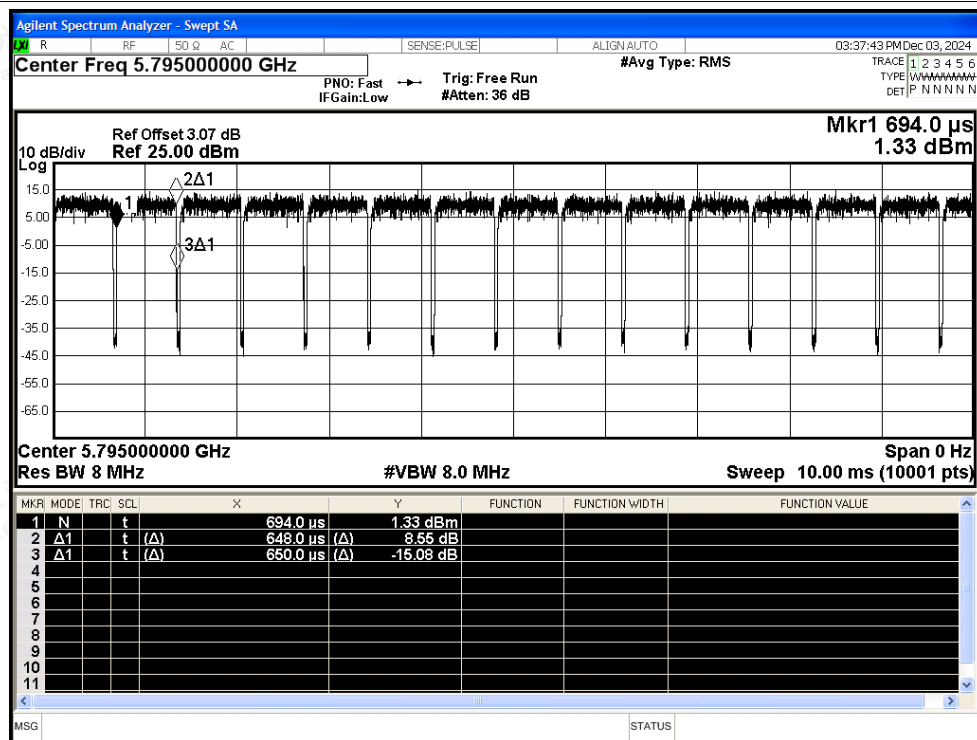


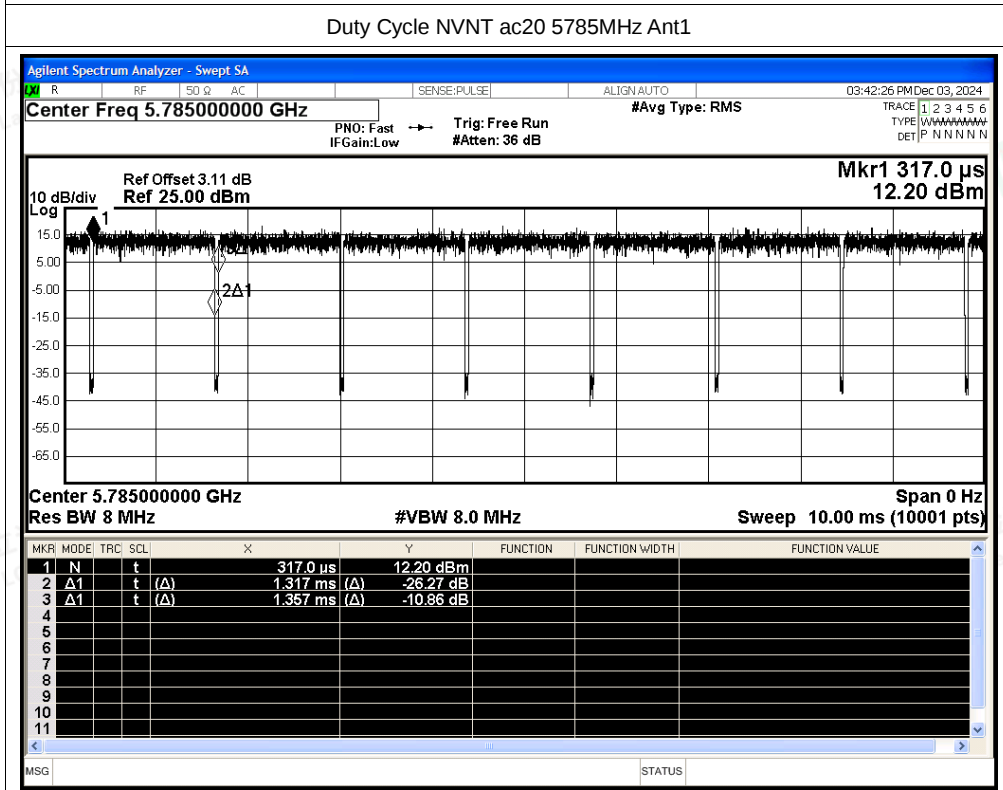
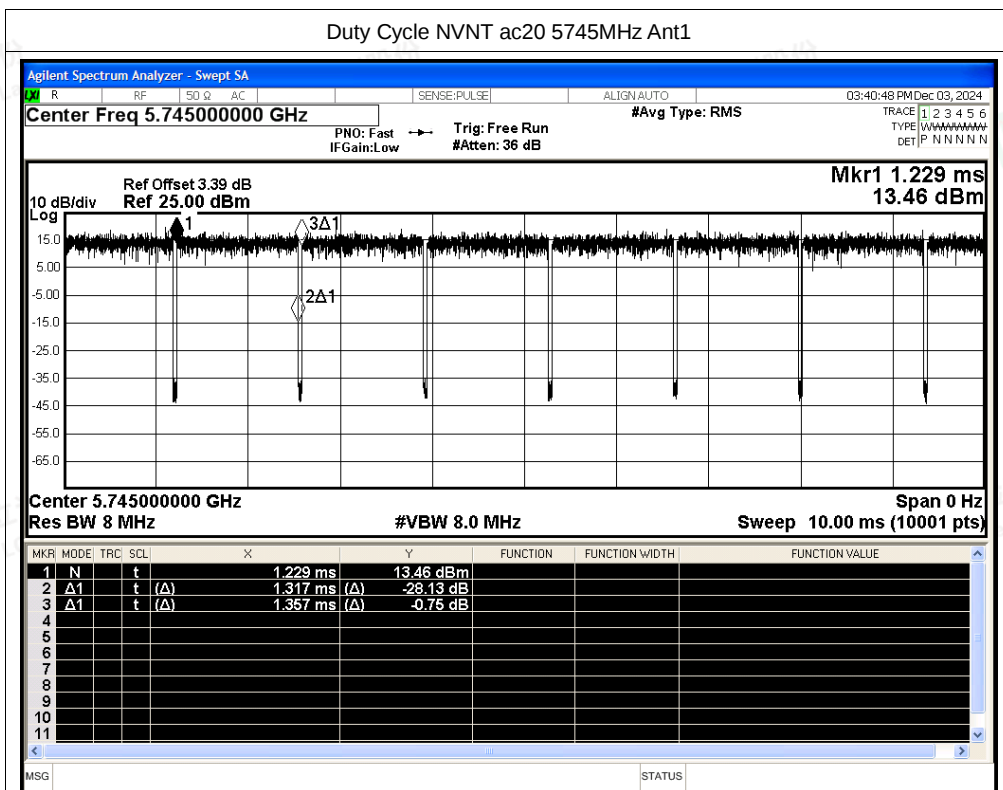


Duty Cycle NVNT n40 5755MHz Ant1



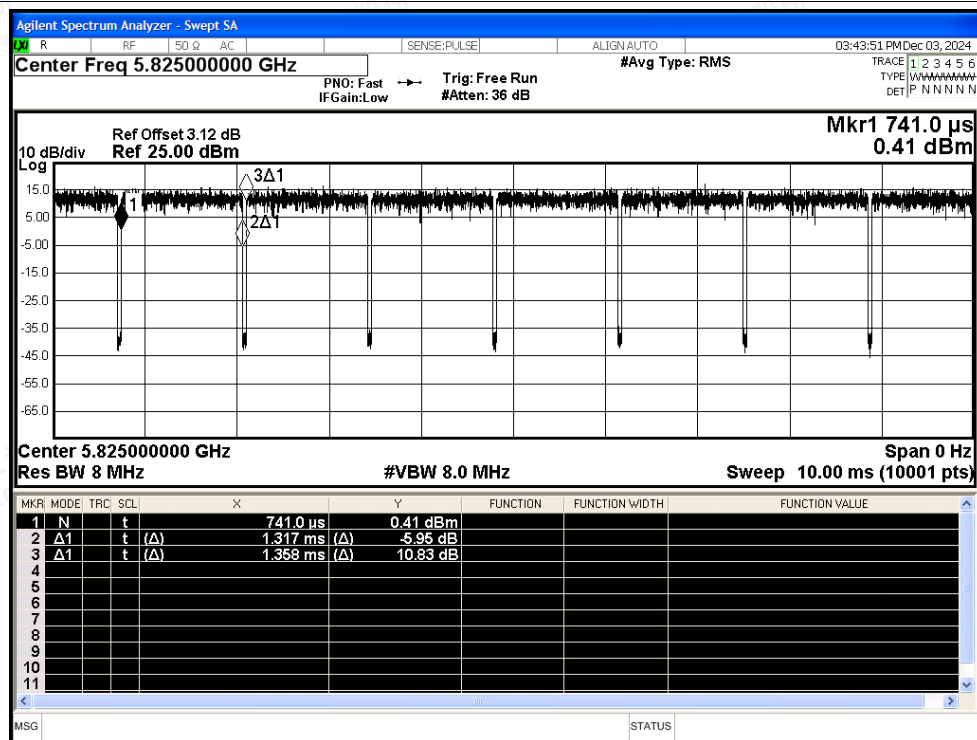
Duty Cycle NVNT n40 5795MHz Ant1



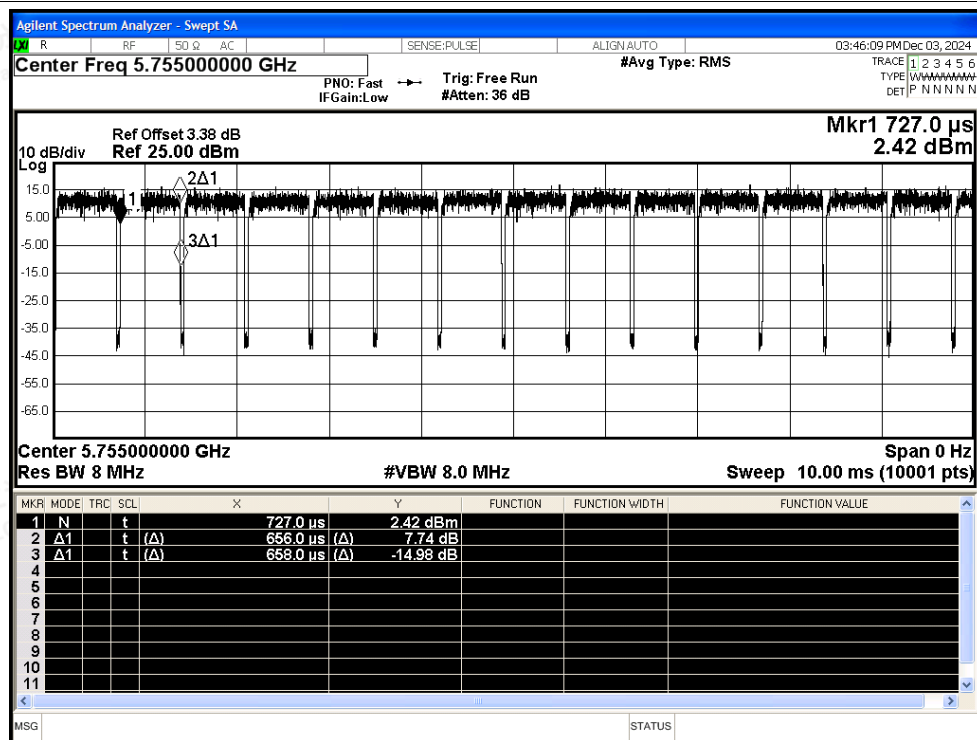




Duty Cycle NVNT ac20 5825MHz Ant1

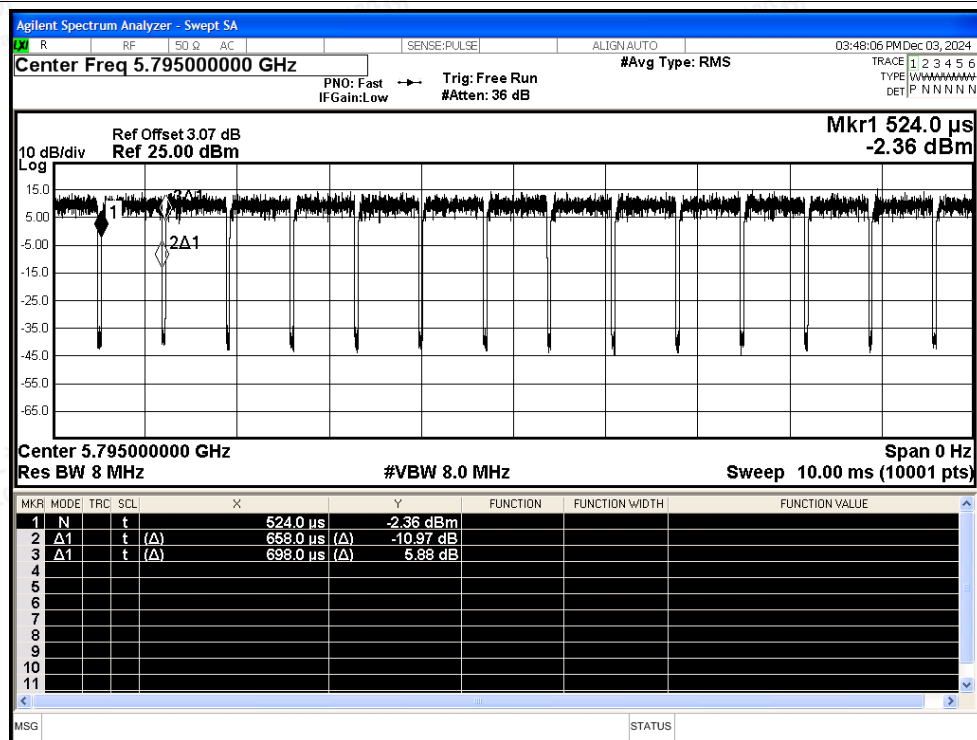


Duty Cycle NVNT ac40 5755MHz Ant1





Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1

