



Appendix C

RF Test Data for 5.8G SRD (Conducted Measurement)

Product Name: Light Quadcopter UAV

Test Model: S220

Environmental Conditions

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





C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	10MHz Bandwidth	5744	Ant1	9.422	≥ 0.5	Pass
NVNT	10MHz Bandwidth	5788	Ant1	9.393	≥ 0.5	Pass
NVNT	10MHz Bandwidth	5832	Ant1	9.381	≥ 0.5	Pass
NVNT	20MHz Bandwidth	5744	Ant1	18.66	≥ 0.5	Pass
NVNT	20MHz Bandwidth	5788	Ant1	18.71	≥ 0.5	Pass
NVNT	20MHz Bandwidth	5832	Ant1	18.78	≥ 0.5	Pass



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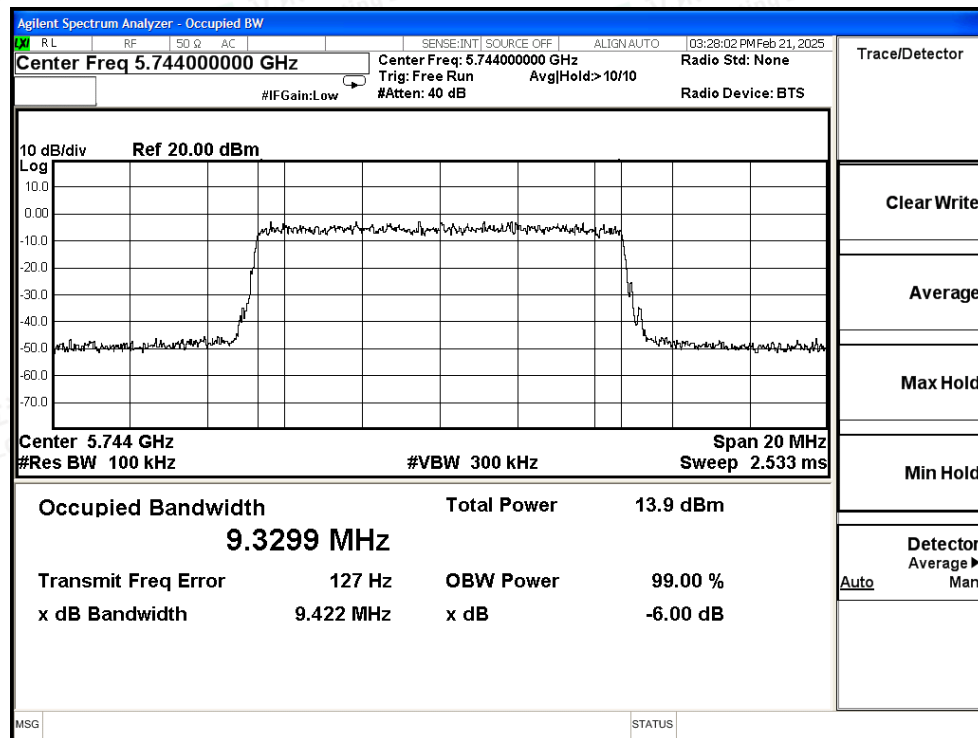
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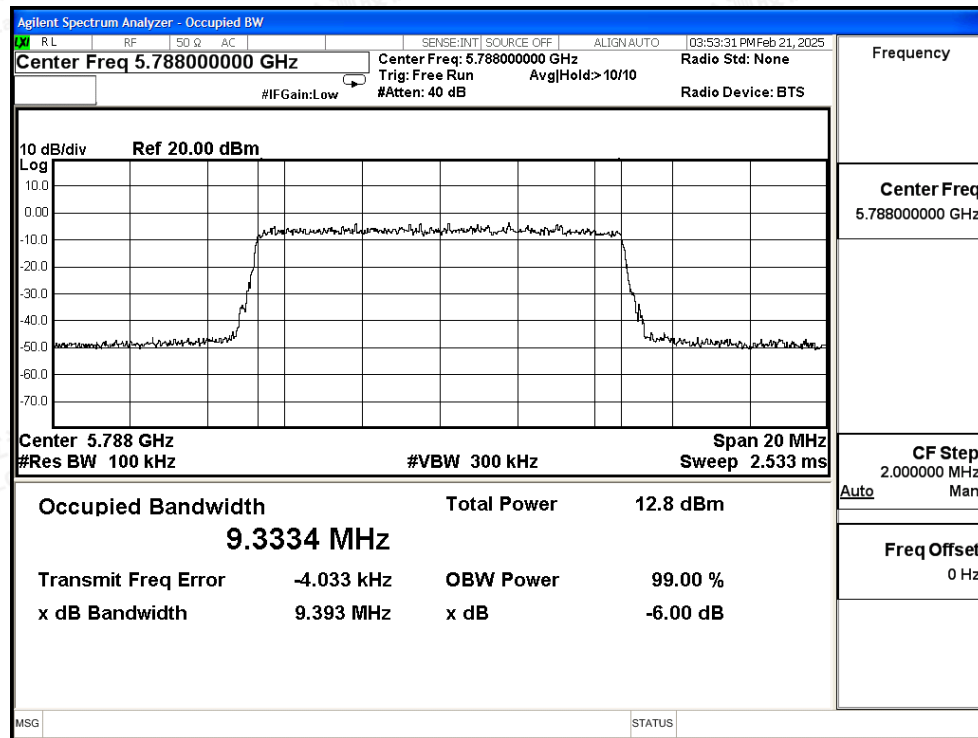


Test Graphs

-6dB Bandwidth NVNT 10MHz Bandwidth 5744MHz Ant1



-6dB Bandwidth NVNT 10MHz Bandwidth 5788MHz Ant1

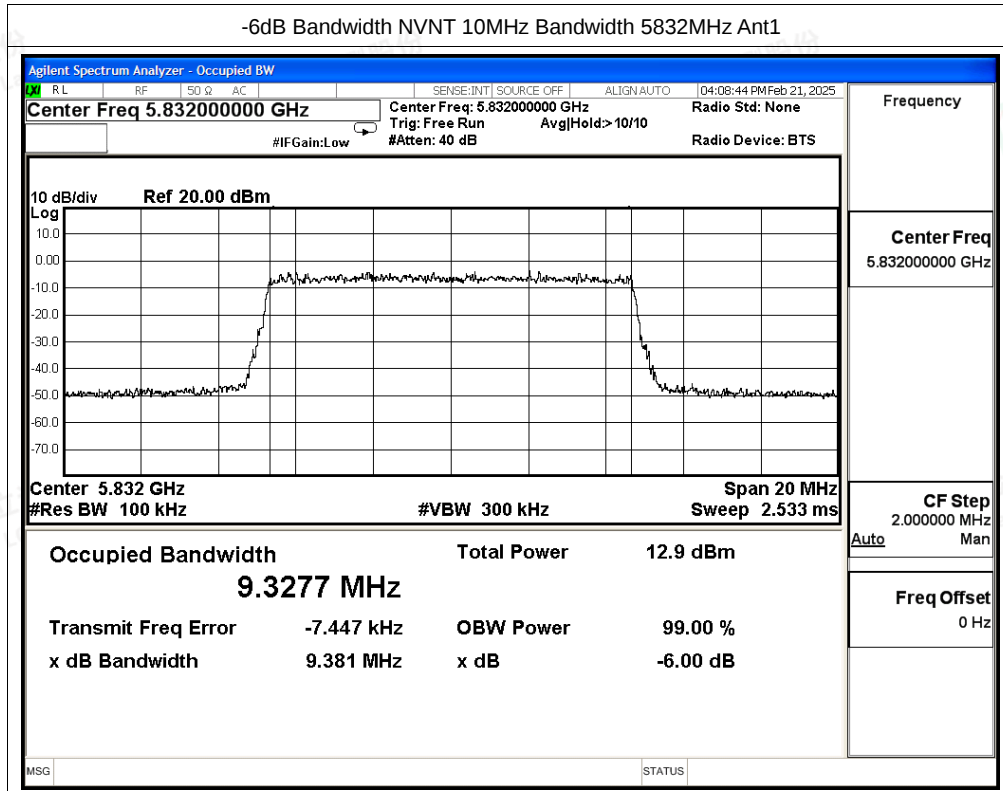


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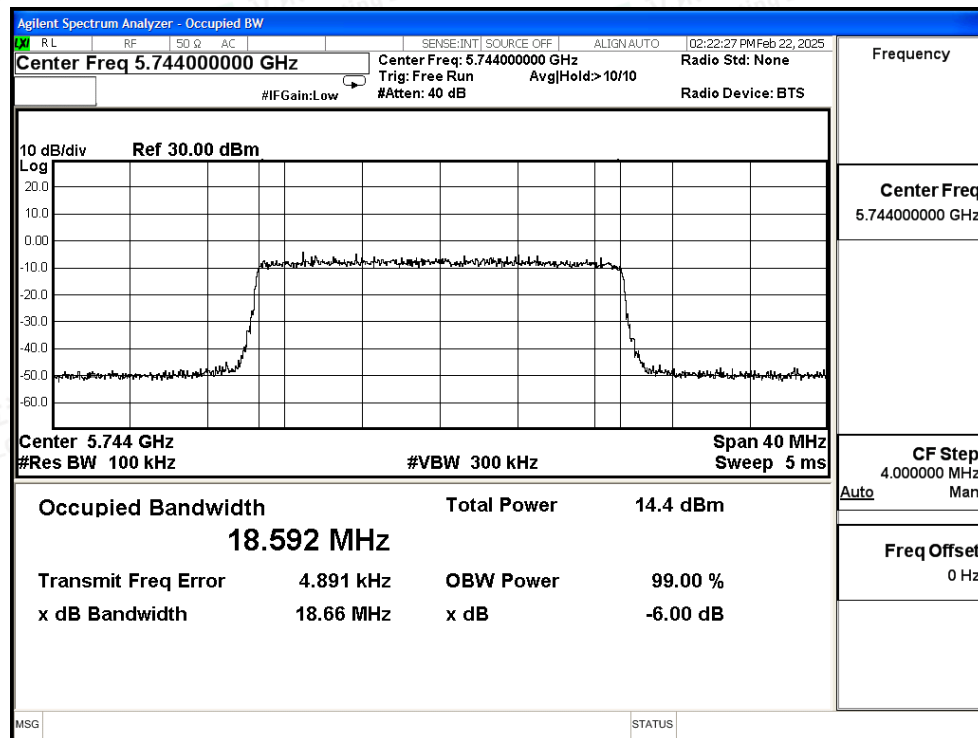
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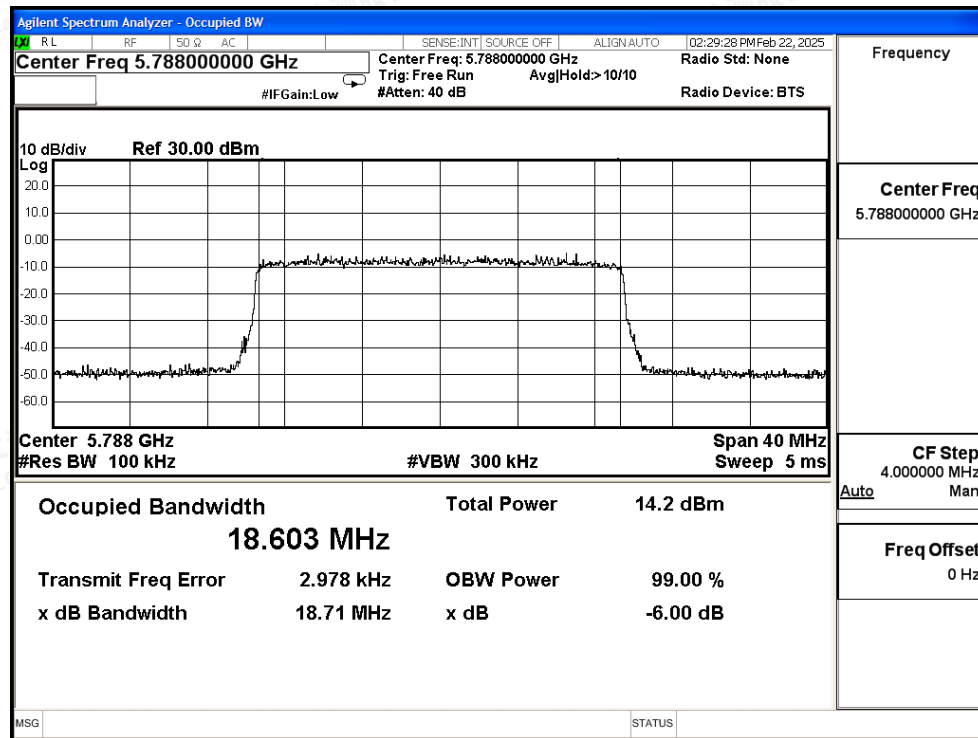


Test Graphs

-6dB Bandwidth NVNT 20MHz Bandwidth 5744MHz Ant1



-6dB Bandwidth NVNT 20MHz Bandwidth 5788MHz Ant1

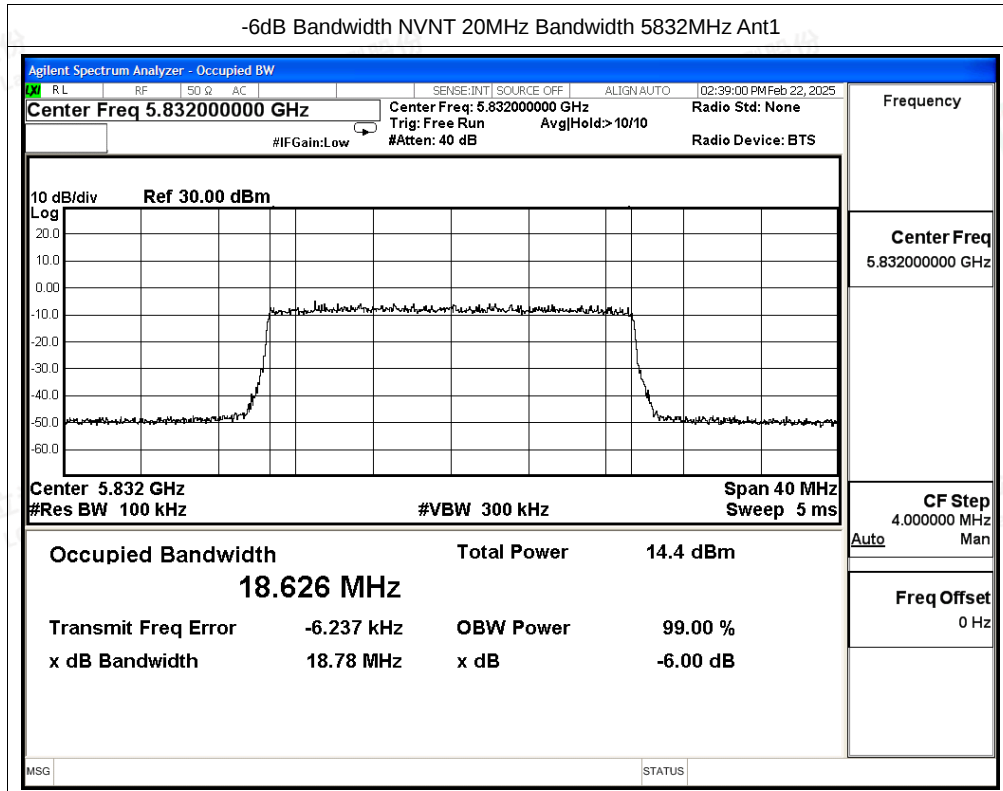


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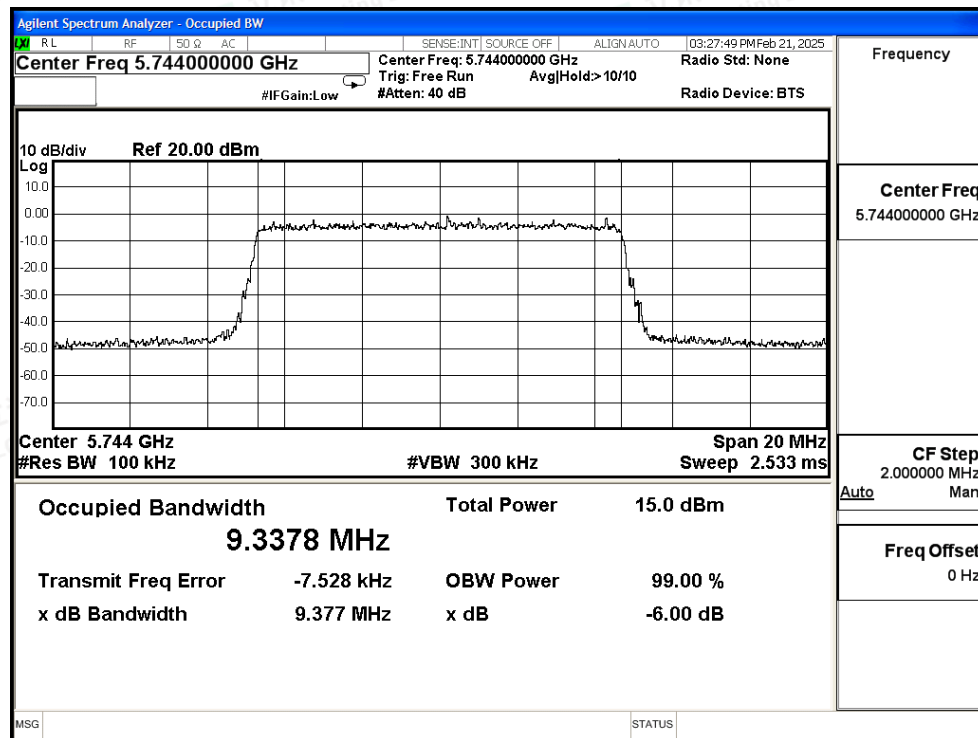
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	10MHz Bandwidth	5744	Ant2	9.377	≥ 0.5	Pass
NVNT	10MHz Bandwidth	5788	Ant2	9.422	≥ 0.5	Pass
NVNT	10MHz Bandwidth	5832	Ant2	9.43	≥ 0.5	Pass
NVNT	20MHz Bandwidth	5744	Ant2	18.74	≥ 0.5	Pass
NVNT	20MHz Bandwidth	5788	Ant2	18.76	≥ 0.5	Pass
NVNT	20MHz Bandwidth	5832	Ant2	18.75	≥ 0.5	Pass



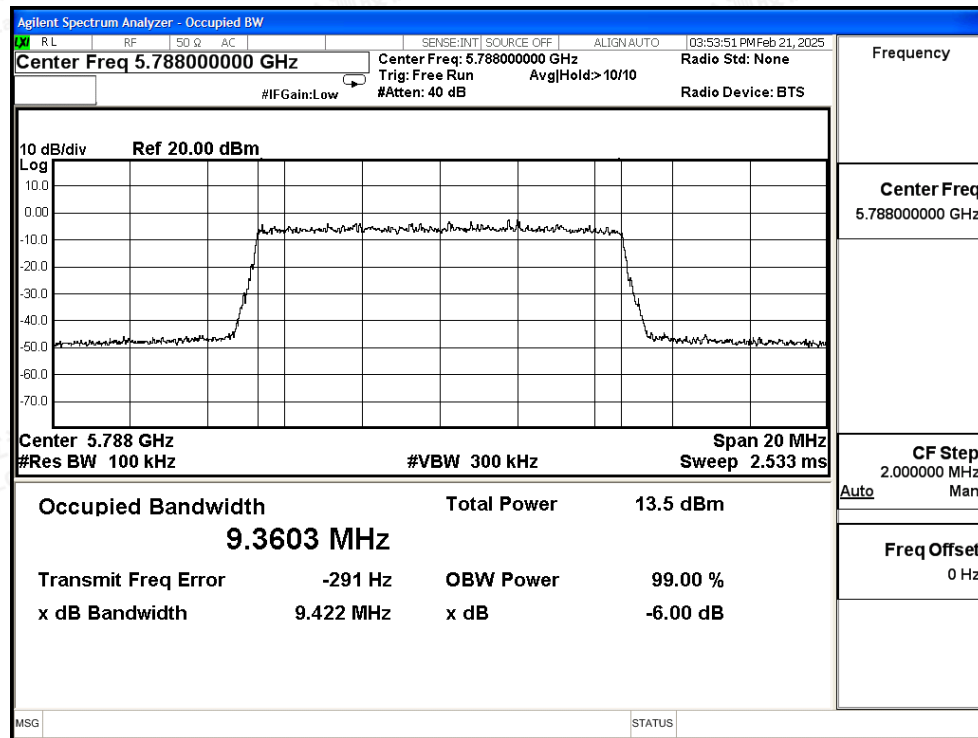


Test Graphs

-6dB Bandwidth NVNT 10MHz Bandwidth 5744MHz Ant2



-6dB Bandwidth NVNT 10MHz Bandwidth 5788MHz Ant2

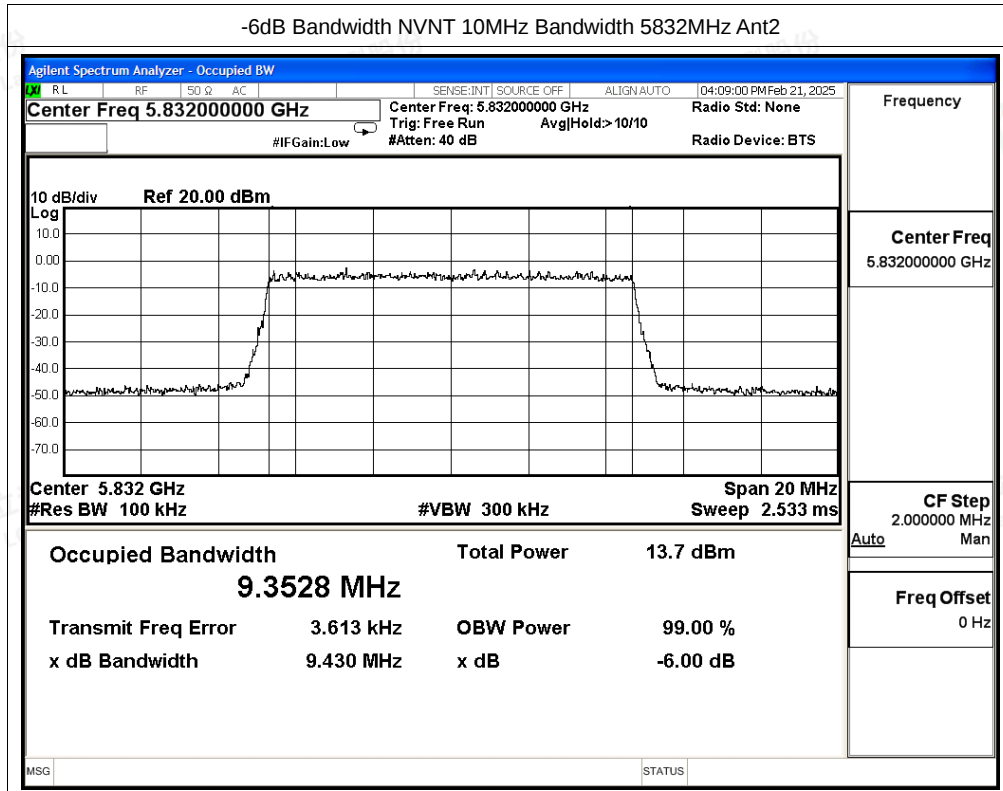


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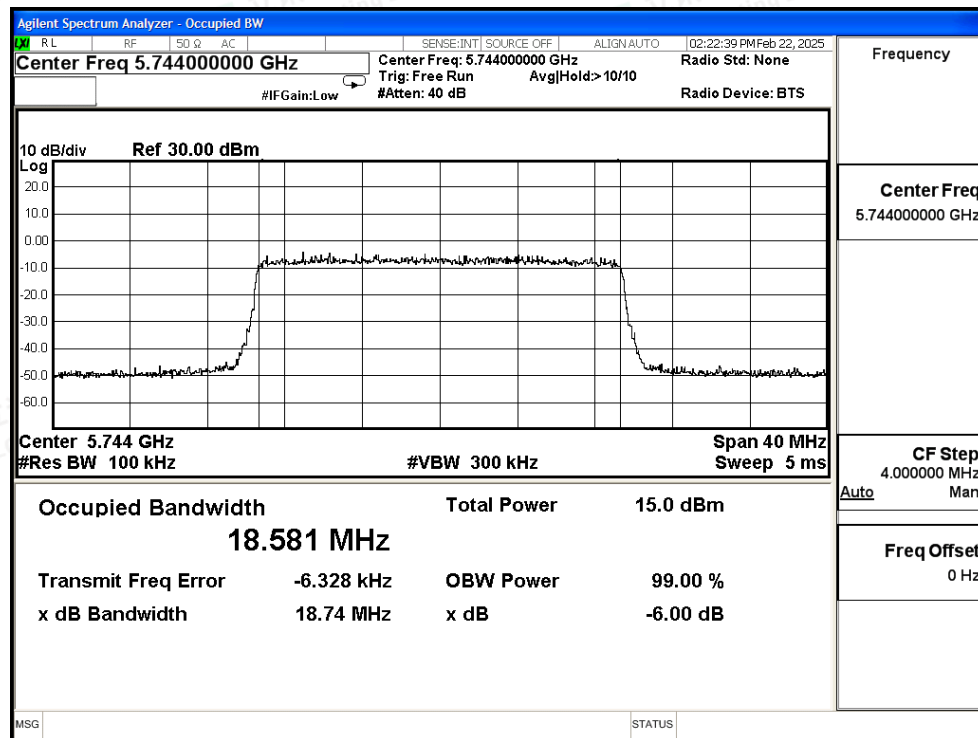
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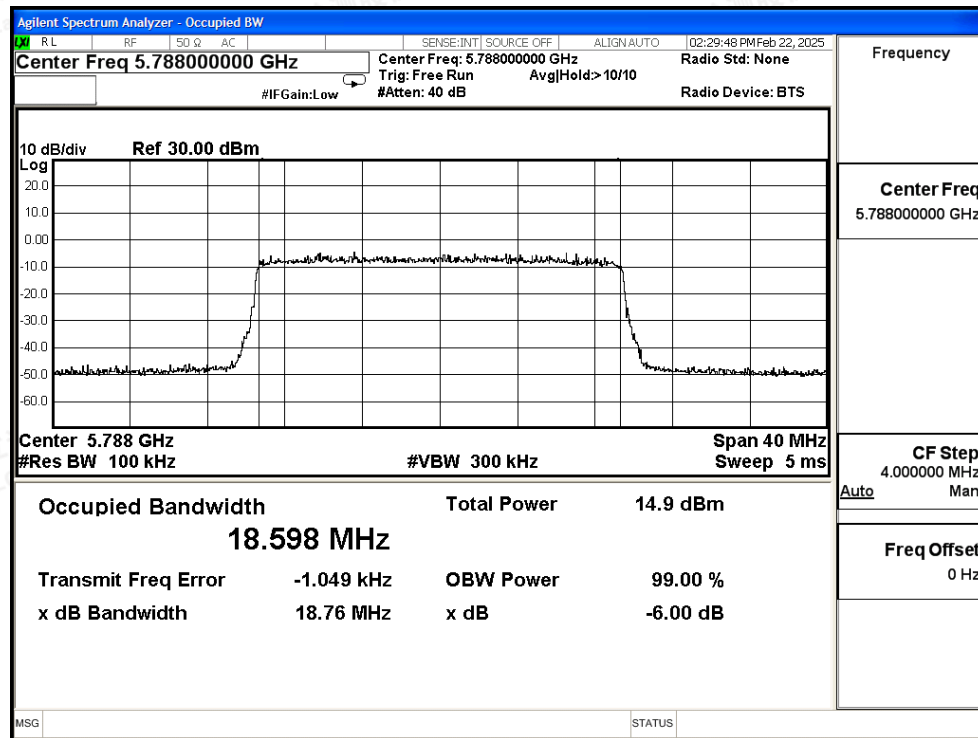


Test Graphs

-6dB Bandwidth NVNT 20MHz Bandwidth 5744MHz Ant2



-6dB Bandwidth NVNT 20MHz Bandwidth 5788MHz Ant2

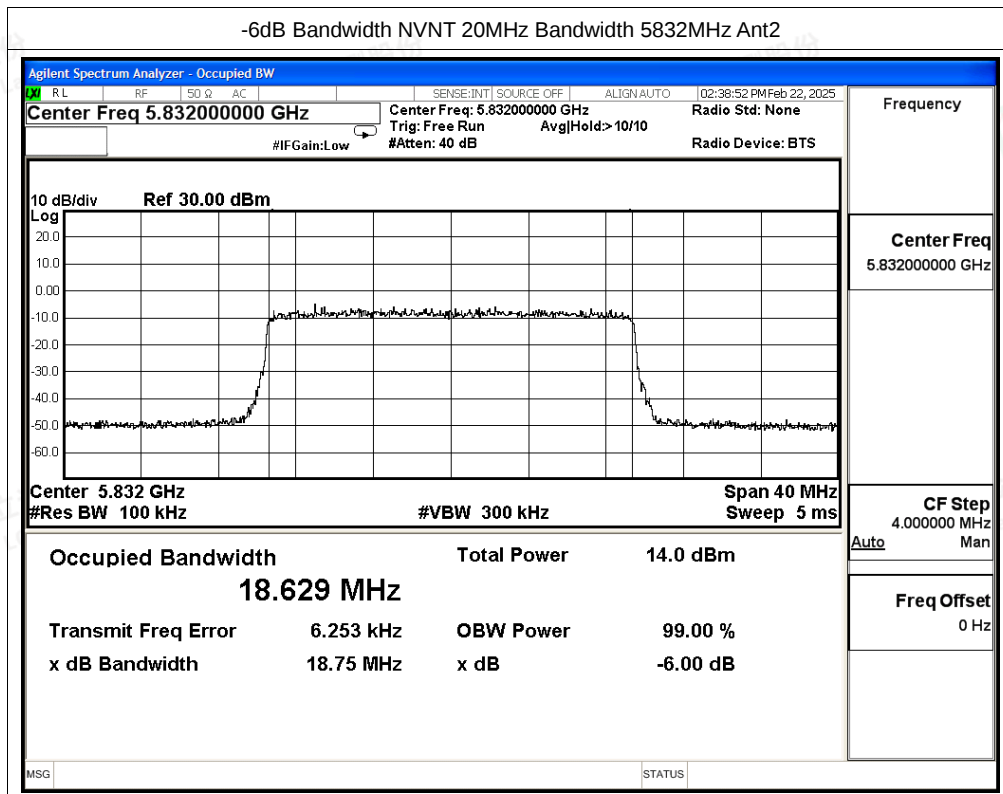


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C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	10MHz Bandwidth	5744	Ant1	13.43	1.36	14.79	24	Pass
NVNT	10MHz Bandwidth	5788	Ant1	12.67	1.40	14.07	24	Pass
NVNT	10MHz Bandwidth	5832	Ant1	12.34	1.37	13.71	24	Pass
NVNT	20MHz Bandwidth	5744	Ant1	14.12	1.4	15.52	24	Pass
NVNT	20MHz Bandwidth	5788	Ant1	13.49	1.35	14.84	24	Pass
NVNT	20MHz Bandwidth	5832	Ant1	13.31	1.35	14.66	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	10MHz Bandwidth	5744	Ant2	14.50	1.38	15.88	24	Pass
NVNT	10MHz Bandwidth	5788	Ant2	13.29	1.40	14.69	24	Pass
NVNT	10MHz Bandwidth	5832	Ant2	12.13	1.37	13.5	24	Pass
NVNT	20MHz Bandwidth	5744	Ant2	14.63	1.36	15.99	24	Pass
NVNT	20MHz Bandwidth	5788	Ant2	14.17	1.4	15.57	24	Pass
NVNT	20MHz Bandwidth	5832	Ant2	14.10	1.35	15.45	24	Pass



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C.3 Maximum Power Spectral Density Level

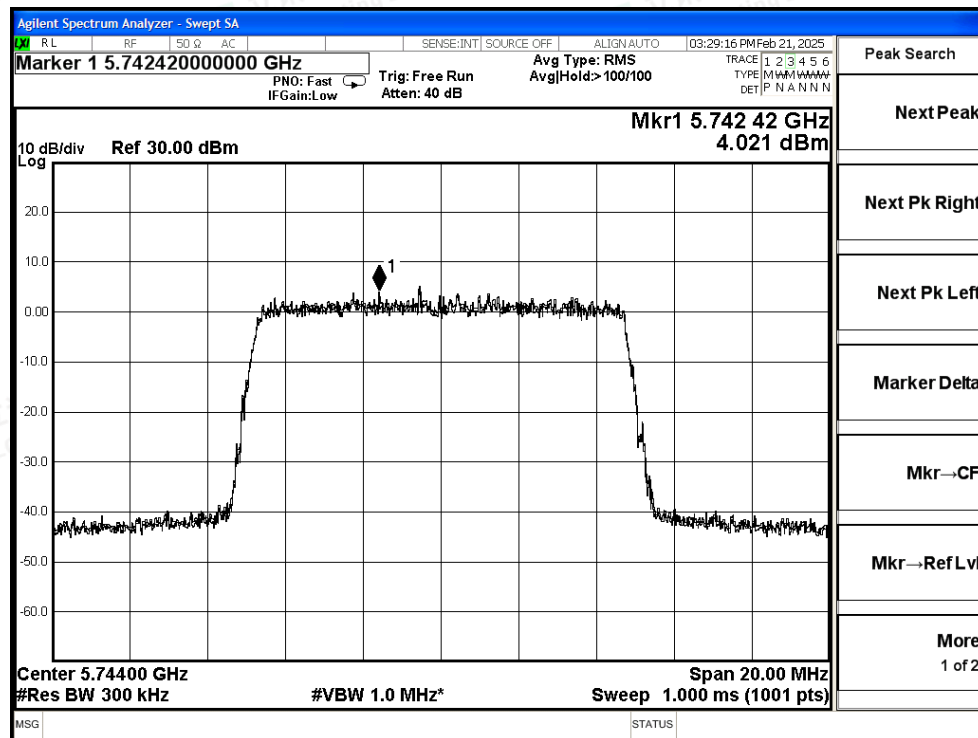
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	10MHz Bandwidth	5744	Ant1	4.021	1.36	5.381	30	Pass
NVNT	10MHz Bandwidth	5788	Ant1	0.079	1.4	1.479	30	Pass
NVNT	10MHz Bandwidth	5832	Ant1	0.876	1.37	2.246	30	Pass
NVNT	20MHz Bandwidth	5744	Ant1	2.434	1.4	3.834	30	Pass
NVNT	20MHz Bandwidth	5788	Ant1	1.046	1.35	2.396	30	Pass
NVNT	20MHz Bandwidth	5832	Ant1	1.188	1.35	2.538	30	Pass



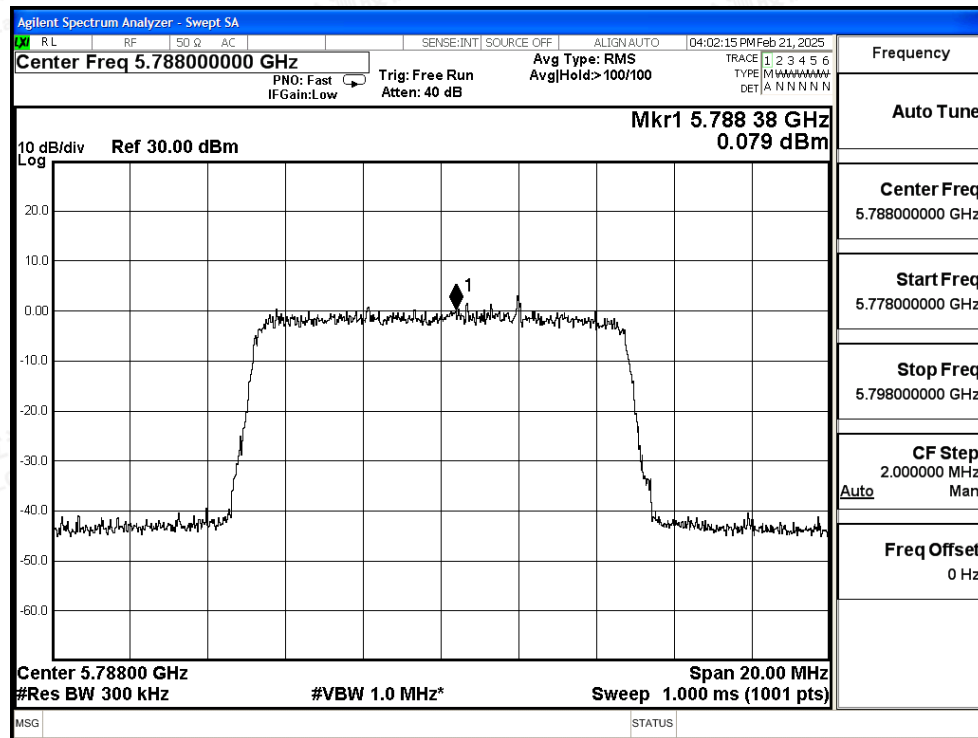


Test Graphs

PSD NVNT 10MHz Bandwidth 5744MHz Ant1



PSD NVNT 10MHz Bandwidth 5788MHz Ant1

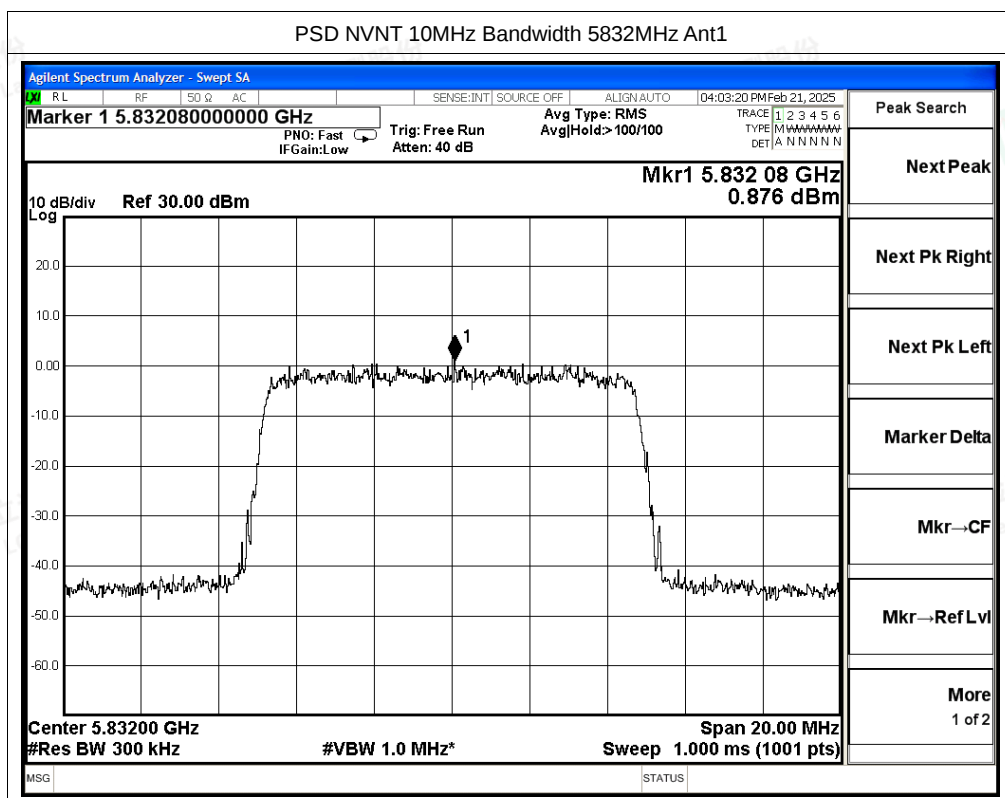


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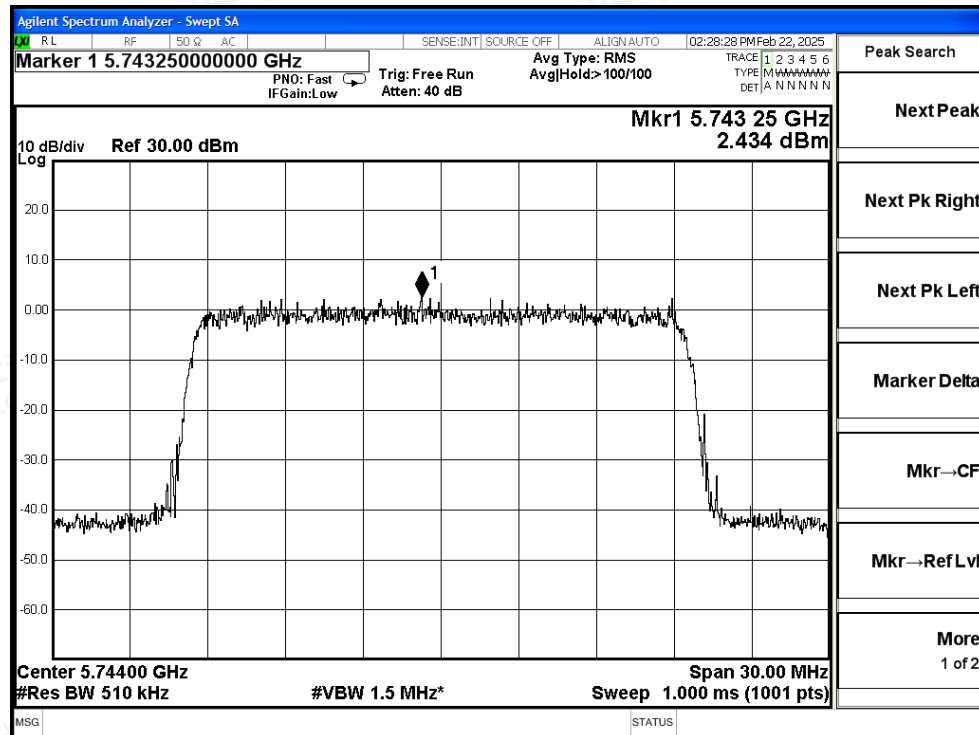


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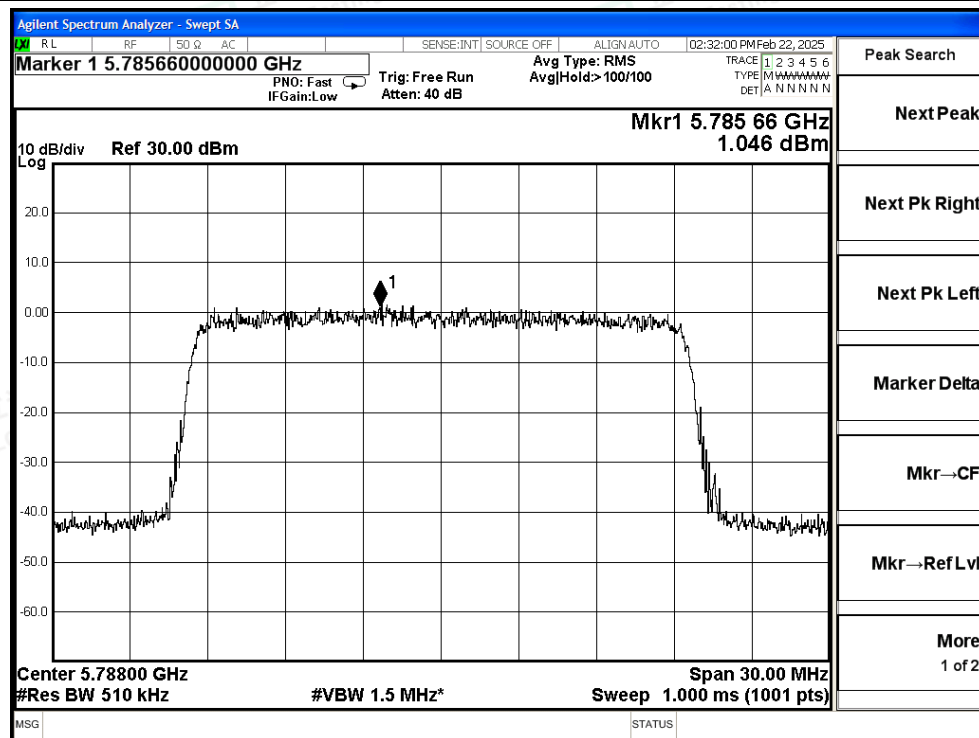


Test Graphs

PSD NVNT 20MHz Bandwidth 5744MHz Ant1



PSD NVNT 20MHz Bandwidth 5788MHz Ant1

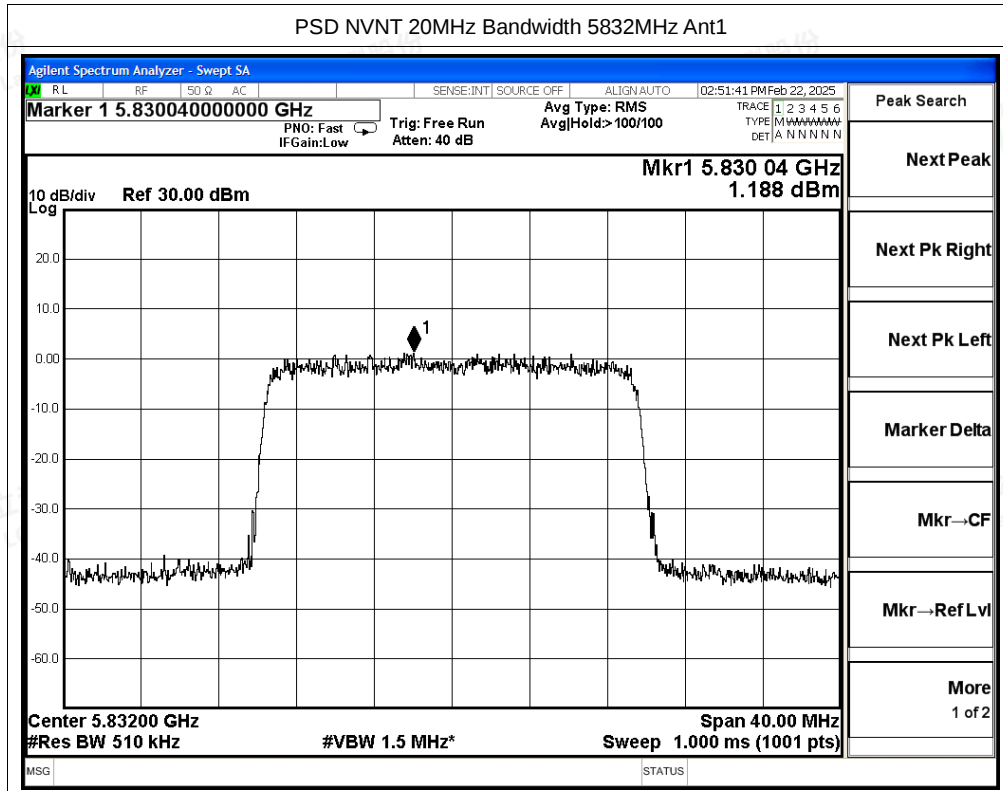


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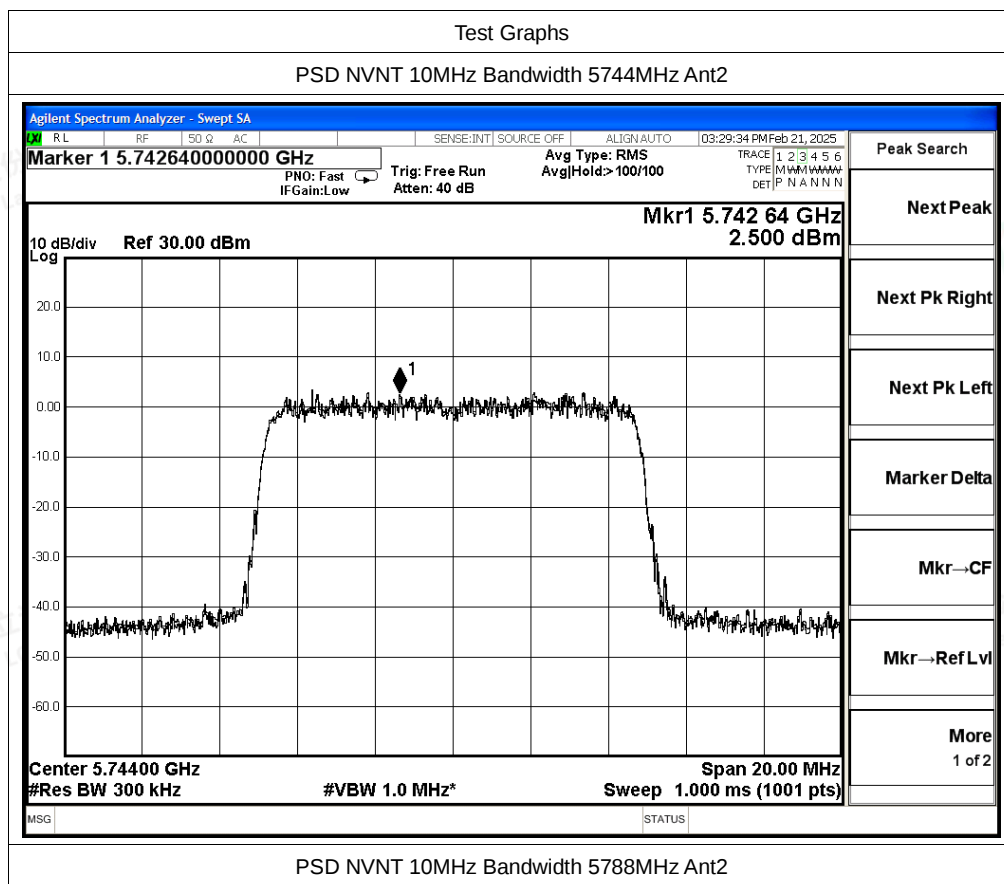
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Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	10MHz Bandwidth	5744	Ant2	2.5	1.38	3.88	30	Pass
NVNT	10MHz Bandwidth	5788	Ant2	0.43	1.40	1.83	30	Pass
NVNT	10MHz Bandwidth	5832	Ant2	1.044	1.37	2.414	30	Pass
NVNT	20MHz Bandwidth	5744	Ant2	2.449	1.36	3.809	30	Pass
NVNT	20MHz Bandwidth	5788	Ant2	1.763	1.4	3.163	30	Pass
NVNT	20MHz Bandwidth	5832	Ant2	1.954	1.35	3.304	30	Pass

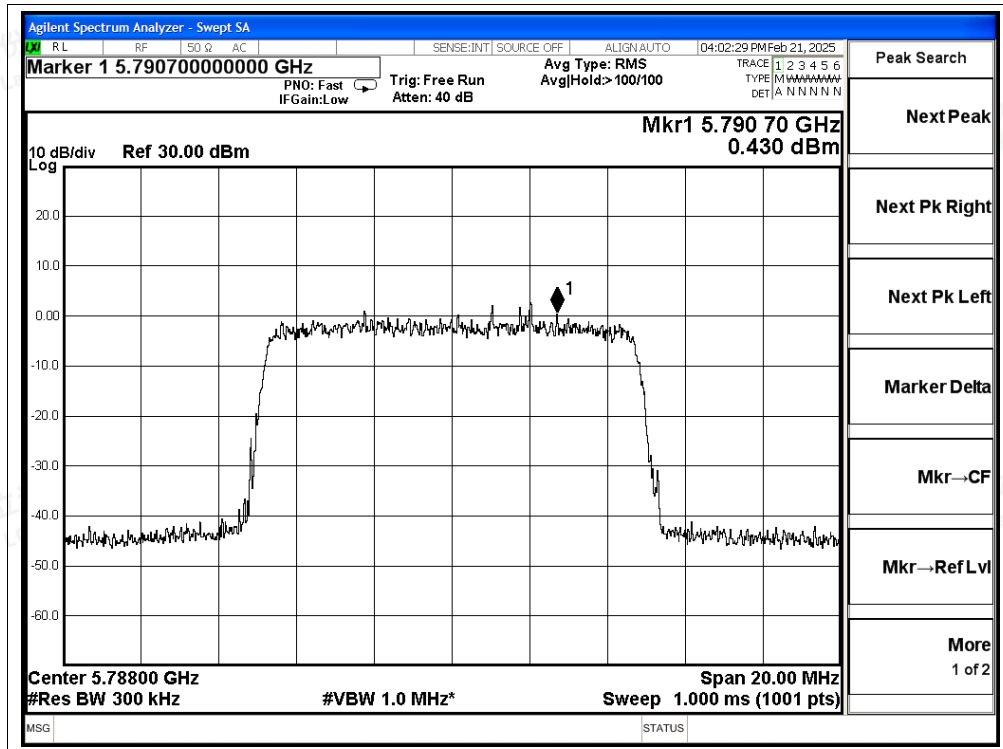


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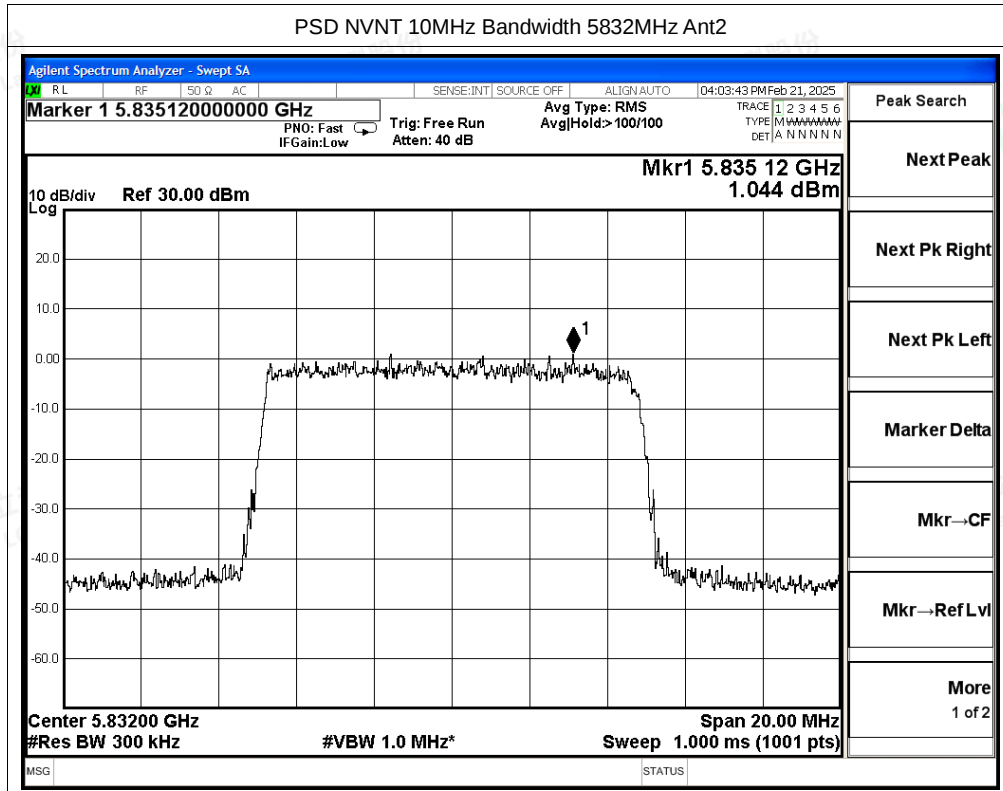


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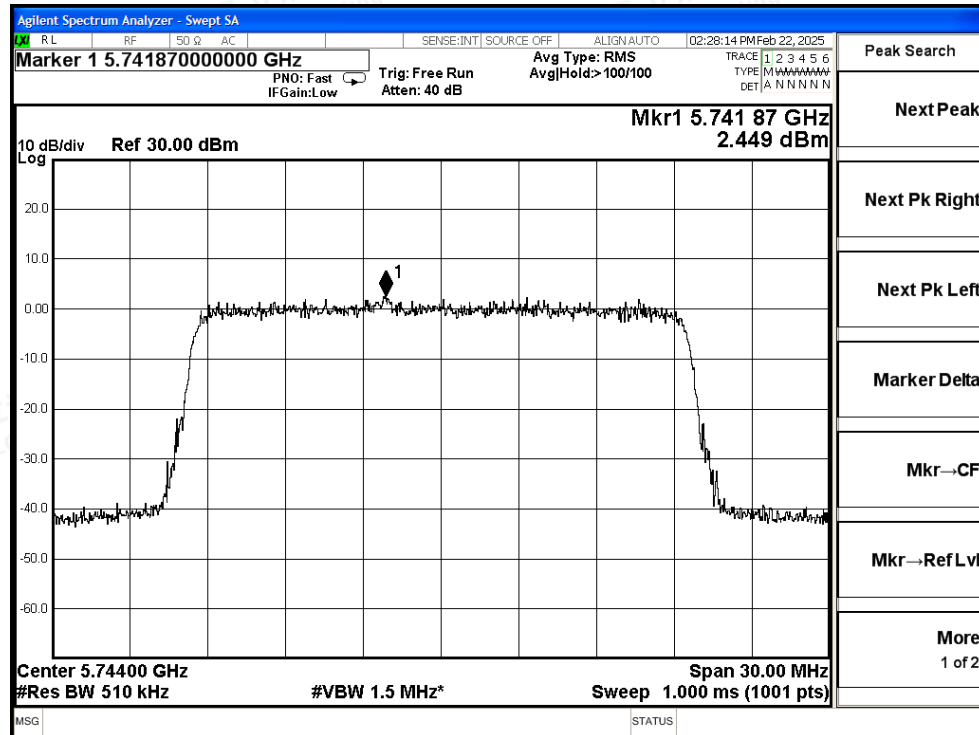
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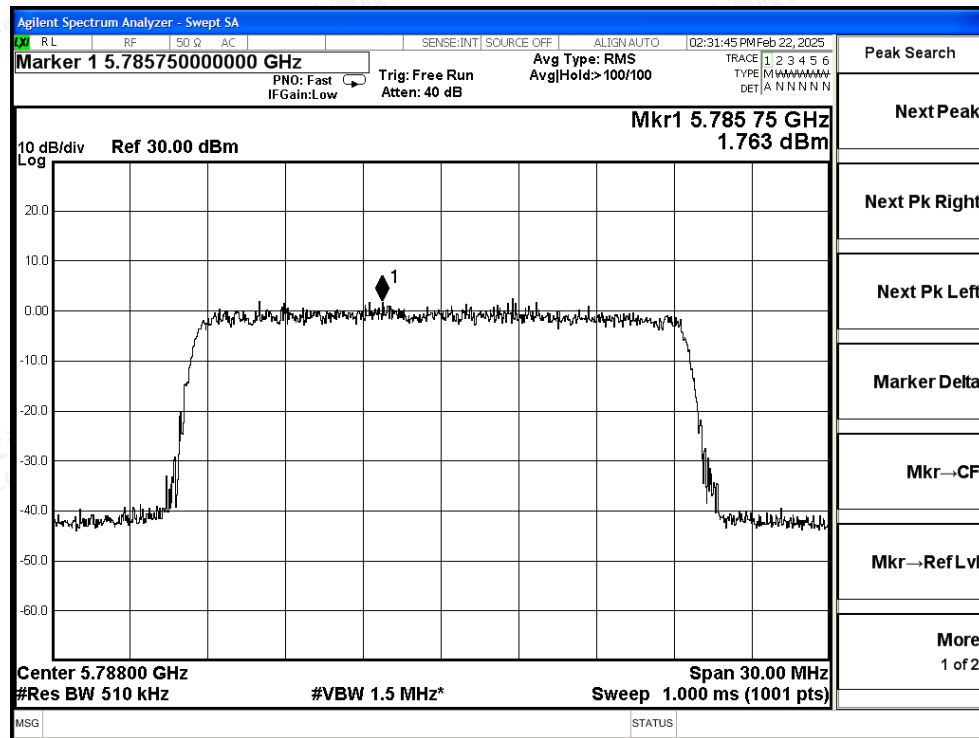


Test Graphs

PSD NVNT 20MHz Bandwidth 5744MHz Ant2



PSD NVNT 20MHz Bandwidth 5788MHz Ant2

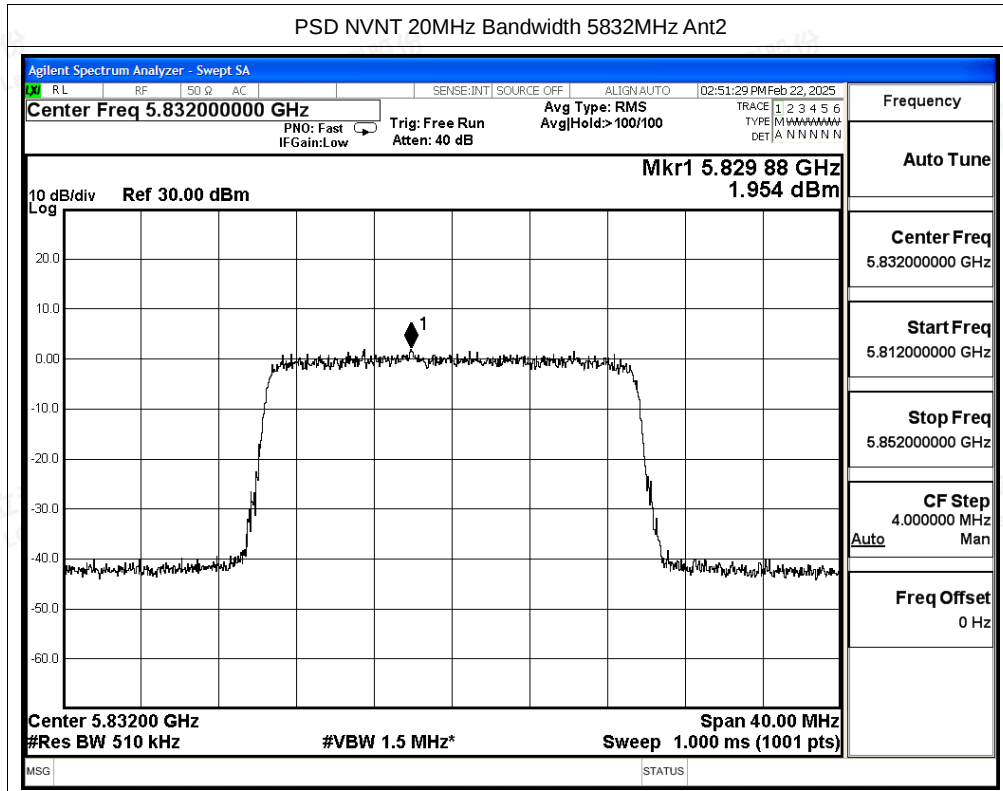


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C.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBuV/m)	Verdict
NVNT	10MHz Bandwidth	5744	Ant1	5650	-38.90	2.0	-	-36.90	Peak	-27	Pass
NVNT	10MHz Bandwidth	5744	Ant1	5650	-41.51	2.0	1.36	-38.15	Average	-27	Pass
NVNT	10MHz Bandwidth	5744	Ant1	5700	-37.35	2.0	-	-35.35	Peak	10	Pass
NVNT	10MHz Bandwidth	5744	Ant1	5700	-41.14	2.0	1.36	-37.78	Average	10	Pass
NVNT	10MHz Bandwidth	5744	Ant1	5720	-37.12	2.0	-	-35.12	Peak	15.6	Pass
NVNT	10MHz Bandwidth	5744	Ant1	5720	-38.24	2.0	1.36	-34.88	Average	15.6	Pass
NVNT	10MHz Bandwidth	5744	Ant1	5725	-37.26	2.0	-	-35.26	Peak	27	Pass
NVNT	10MHz Bandwidth	5744	Ant1	5725	-40.79	2.0	1.36	-37.43	Average	27	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5850	-37.77	2.0	-	-35.77	Peak	27	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5850	-41.72	2.0	1.37	-38.35	Average	27	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5855	-37.90	2.0	-	-35.90	Peak	15.6	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5855	-39.76	2.0	1.37	-36.39	Average	15.6	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5875	-38.03	2.0	-	-36.03	Peak	10	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5875	-42.61	2.0	1.37	-39.24	Average	10	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5925	-37.75	2.0	-	-35.75	Peak	-27	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5925	-42.49	2.0	1.37	-39.12	Average	-27	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5650	-38.73	2.0	-	-36.73	Peak	-27	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5650	-42.61	2.0	1.4	-39.21	Average	-27	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5700	-38.03	2.0	-	-36.03	Peak	10	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5700	-42.35	2.0	1.4	-38.95	Average	10	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5720	-37.52	2.0	-	-35.52	Peak	15.6	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5720	-41.41	2.0	1.4	-38.01	Average	15.6	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5725	-38.4	2.0	-	-36.40	Peak	27	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5725	-41.69	2.0	1.4	-38.29	Average	27	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5850	-39.77	2.0	-	-37.77	Peak	27	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5850	-41.84	2.0	1.35	-38.49	Average	27	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5855	-39.38	2.0	-	-37.38	Peak	15.6	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5855	-41.1	2.0	1.35	-37.75	Average	15.6	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5875	-39.47	2.0	-	-37.47	Peak	10	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5875	-41.51	2.0	1.35	-38.16	Average	10	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5925	-39.74	2.0	-	-37.74	Peak	-27	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5925	-42.35	2.0	1.35	-39.00	Average	-27	Pass



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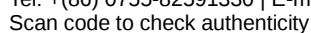
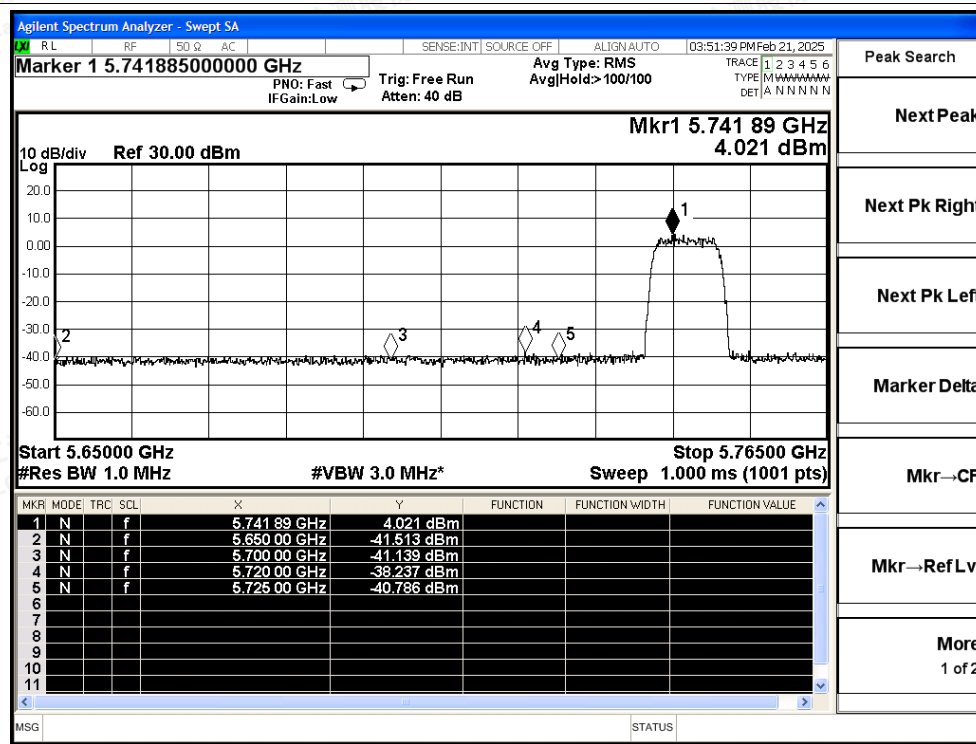
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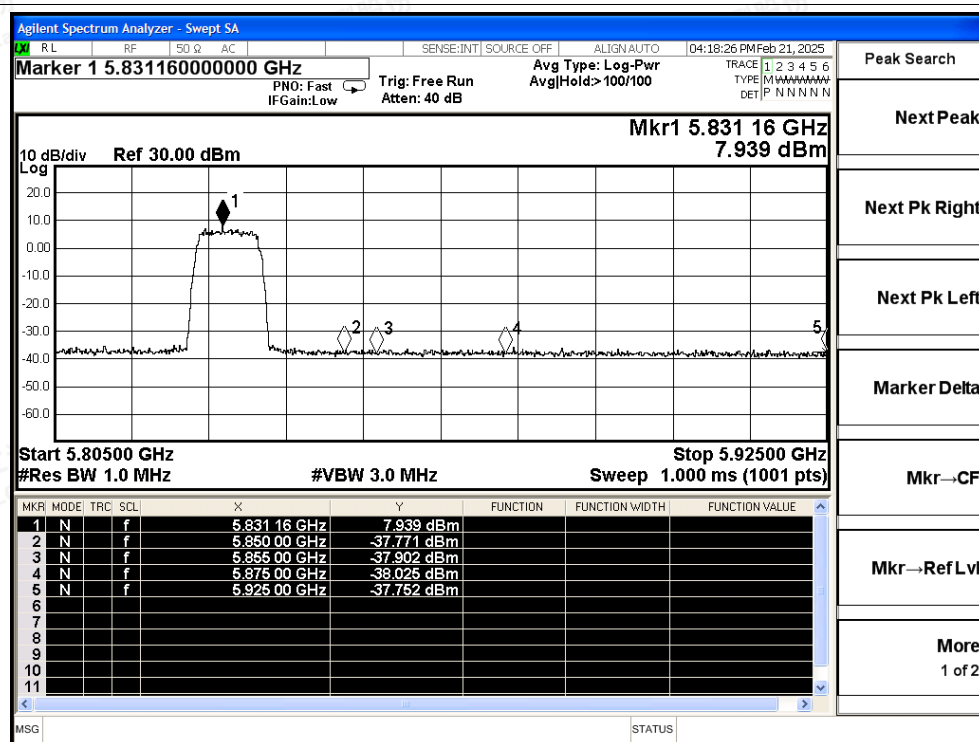


Restrict Band NVNT 10MHz Bandwidth 5744MHz Ant1 Peak

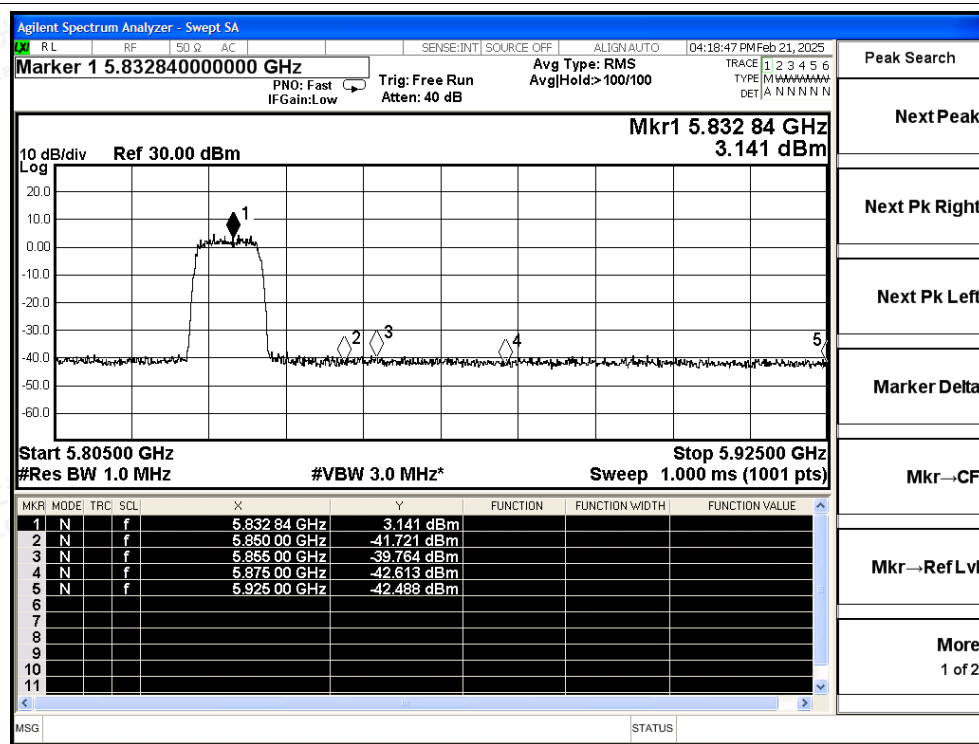




Restrict Band NVNT 10MHz Bandwidth 5832MHz Ant1 Peak



Restrict Band NVNT 10MHz Bandwidth 5832MHz Ant1 Average



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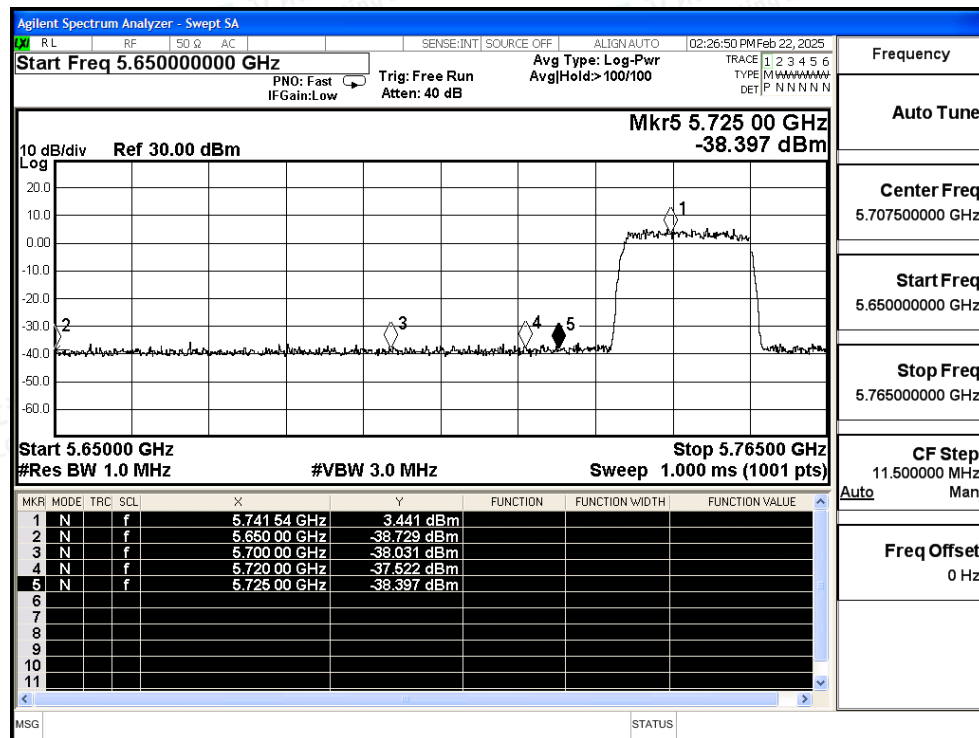
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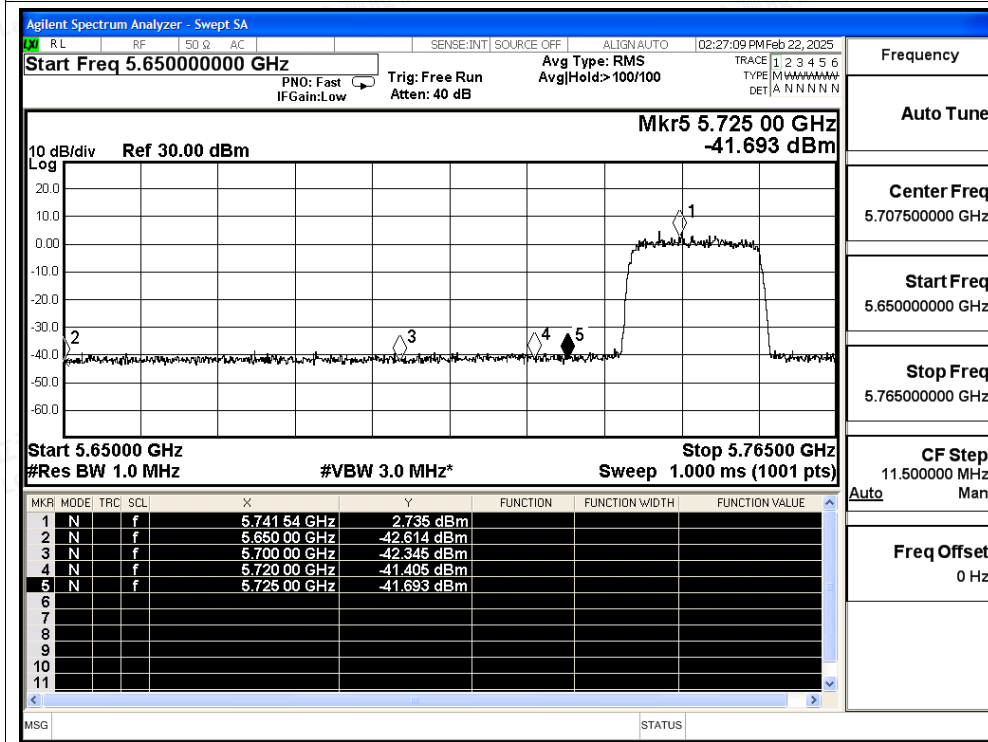


Test Graphs

Restrict Band NVNT 20MHz Bandwidth 5744MHz Ant1 Peak



Restrict Band NVNT 20MHz Bandwidth 5744MHz Ant1 Average

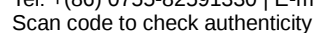
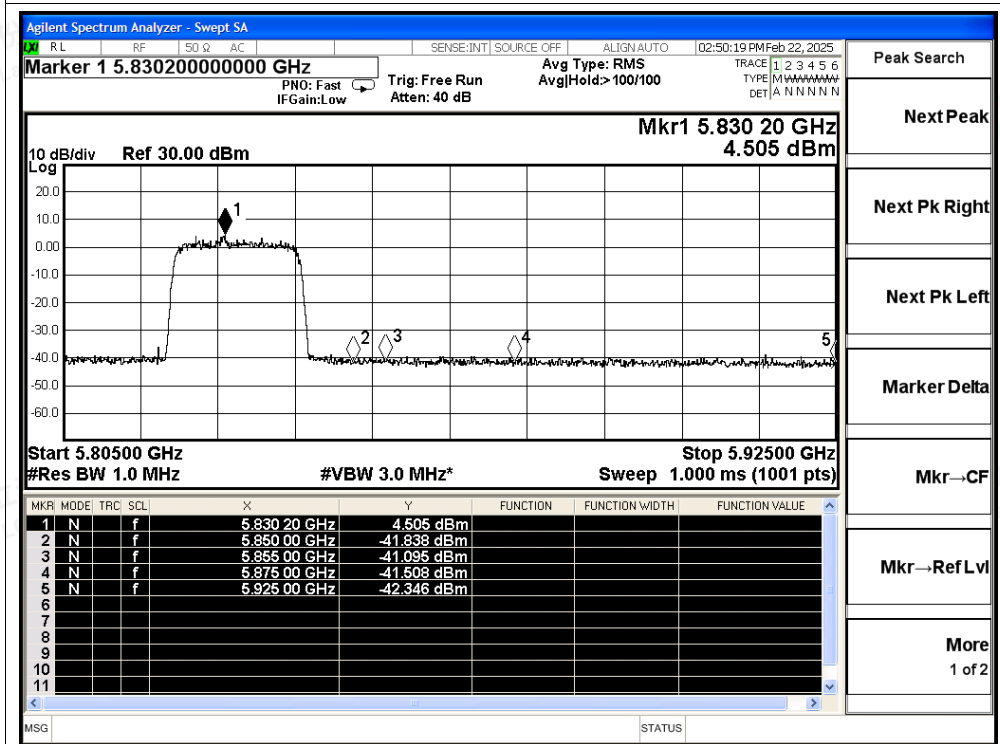


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Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBuV/m)	Verdict
NVNT	10MHz Bandwidth	5744	Ant2	5650	-38.76	3.35	-	-35.41	Peak	-27	Pass
NVNT	10MHz Bandwidth	5744	Ant2	5650	-42.24	3.35	1.38	-37.51	Average	-27	Pass
NVNT	10MHz Bandwidth	5744	Ant2	5700	-37.73	3.35	-	-34.38	Peak	10	Pass
NVNT	10MHz Bandwidth	5744	Ant2	5700	-43.06	3.35	1.38	-38.33	Average	10	Pass
NVNT	10MHz Bandwidth	5744	Ant2	5720	-38.97	3.35	-	-35.62	Peak	15.6	Pass
NVNT	10MHz Bandwidth	5744	Ant2	5720	-42.04	3.35	1.38	-37.31	Average	15.6	Pass
NVNT	10MHz Bandwidth	5744	Ant2	5725	-39.01	3.35	-	-35.66	Peak	27	Pass
NVNT	10MHz Bandwidth	5744	Ant2	5725	-40.88	3.35	1.38	-36.15	Average	27	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5850	-37.77	3.35	-	-34.42	Peak	27	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5850	-41.11	3.35	1.37	-36.39	Average	27	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5855	-37.9	3.35	-	-34.55	Peak	15.6	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5855	-42	3.35	1.37	-37.28	Average	15.6	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5875	-38.03	3.35	-	-34.68	Peak	10	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5875	-39.76	3.35	1.37	-35.04	Average	10	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5925	-37.75	3.35	-	-34.40	Peak	-27	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5925	-42.73	3.35	1.37	-38.01	Average	-27	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5650	-36.68	3.35	-	-33.33	Peak	-27	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5650	-41.73	3.35	1.36	-37.02	Average	-27	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5700	-37.8	3.35	-	-34.45	Peak	10	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5700	-40.69	3.35	1.36	-35.98	Average	10	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5720	-37.36	3.35	-	-34.01	Peak	15.6	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5720	-41.02	3.35	1.36	-36.31	Average	15.6	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5725	-37.53	3.35	-	-34.18	Peak	27	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5725	-41.92	3.35	1.36	-37.21	Average	27	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5850	-37.56	3.35	-	-34.21	Peak	27	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5850	-42.39	3.35	1.35	-37.69	Average	27	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5855	-37.15	3.35	-	-33.80	Peak	15.6	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5855	-42.02	3.35	1.35	-37.32	Average	15.6	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5875	-37.5	3.35	-	-34.15	Peak	10	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5875	-41.4	3.35	1.35	-36.70	Average	10	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5925	-38.25	3.35	-	-34.90	Peak	-27	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5925	-40.44	3.35	1.35	-35.74	Average	-27	Pass



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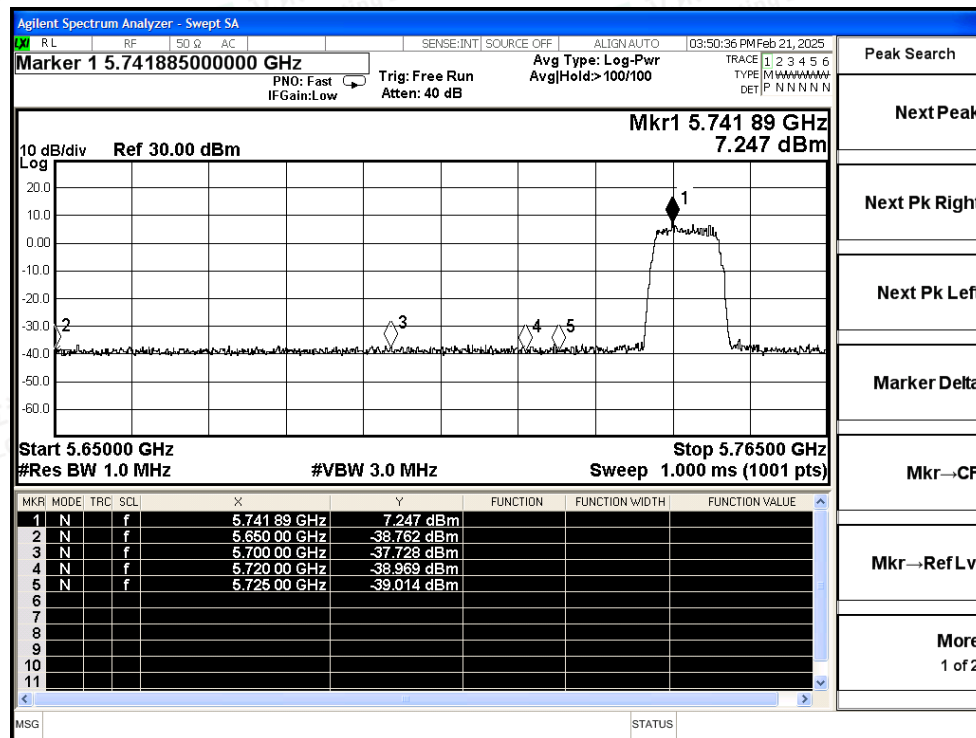
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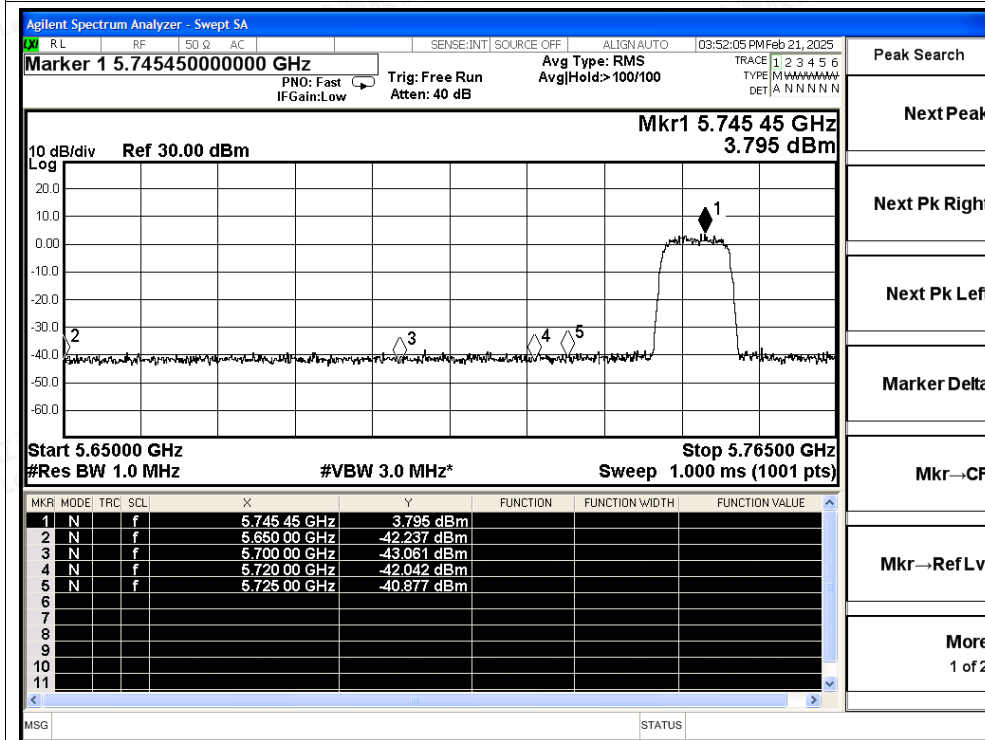


Test Graphs

Restrict Band NVNT 10MHz Bandwidth 5744MHz Ant2 Peak



Restrict Band NVNT 10MHz Bandwidth 5744MHz Ant2 Average



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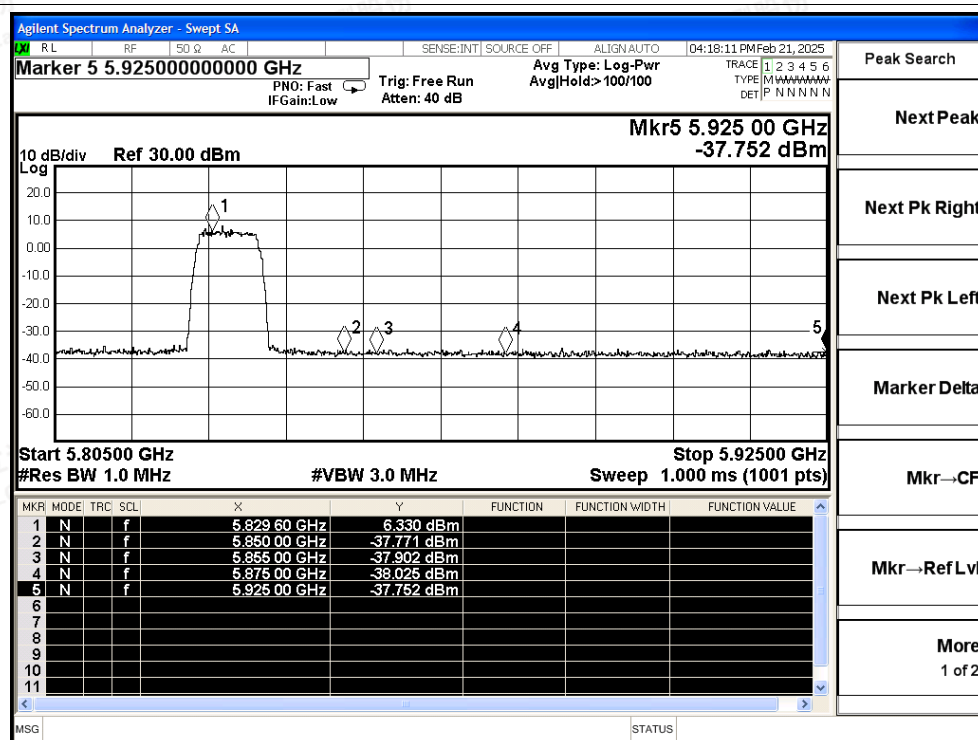
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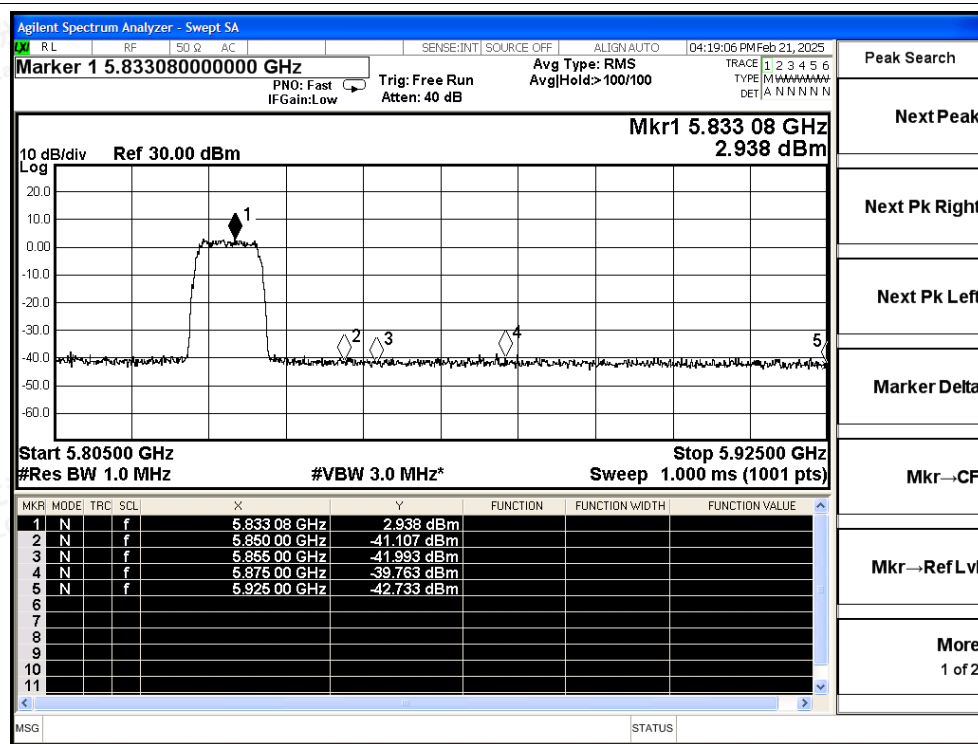
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Restrict Band NVNT 10MHz Bandwidth 5832MHz Ant2 Peak



Restrict Band NVNT 10MHz Bandwidth 5832MHz Ant2 Average



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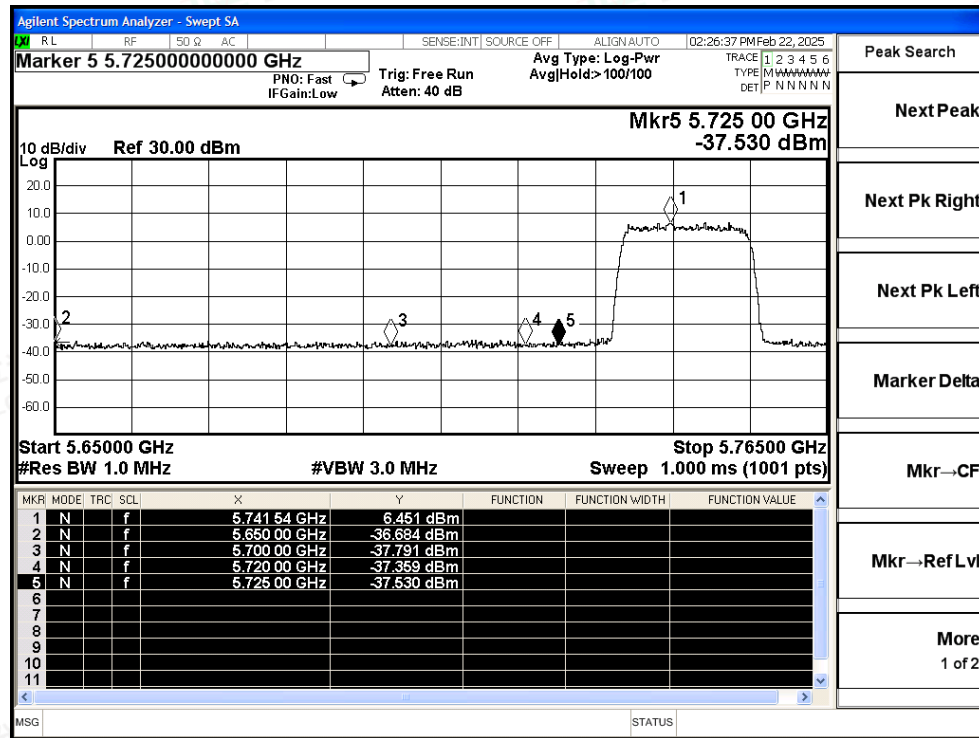
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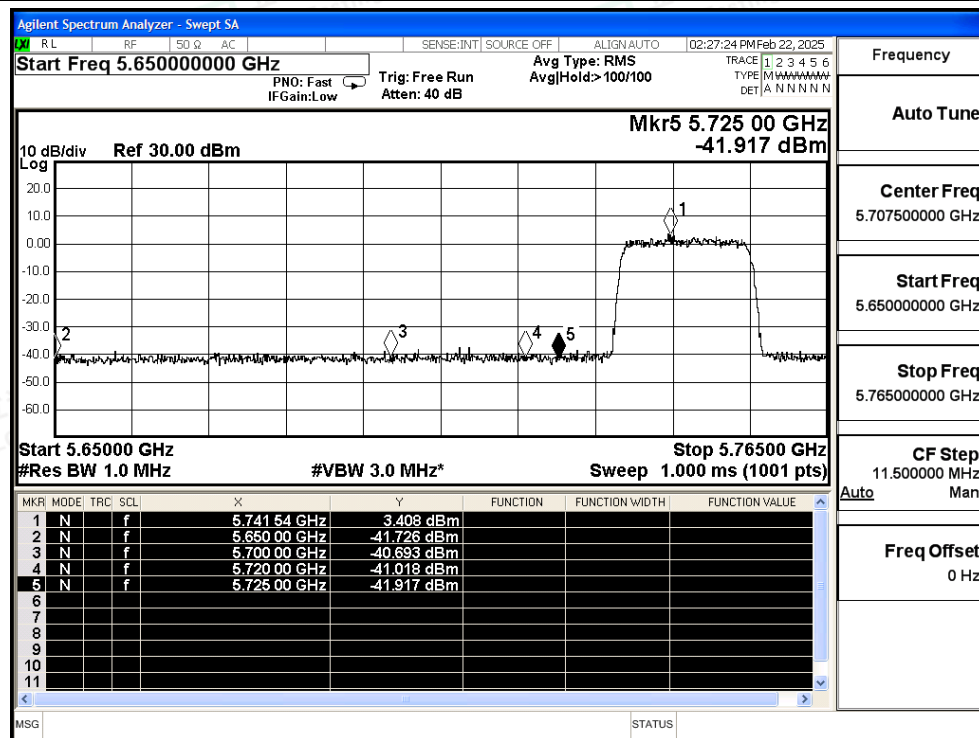


Test Graphs

Restrict Band NVNT 20MHz Bandwidth 5744MHz Ant2 Peak



Restrict Band NVNT 20MHz Bandwidth 5744MHz Ant2 Average



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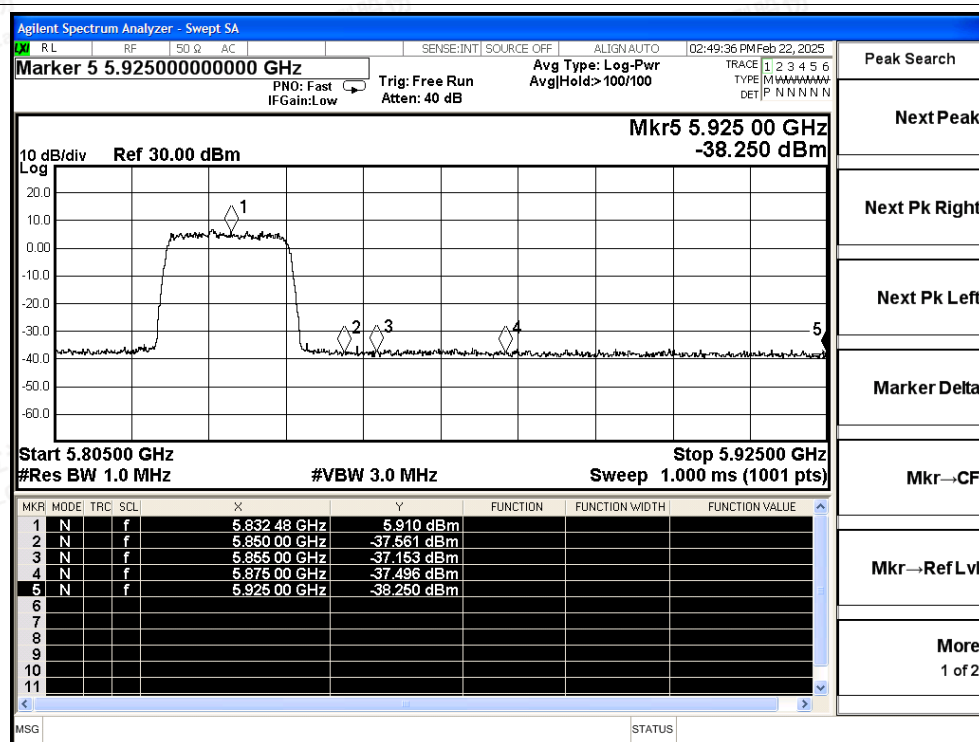
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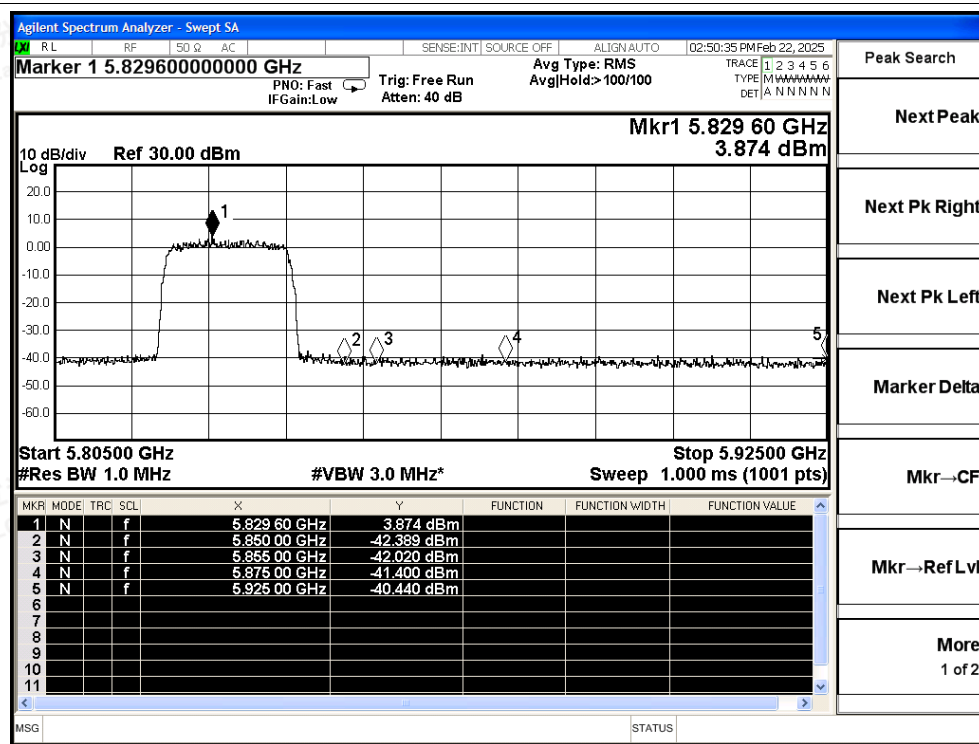
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Restrict Band NVNT 20MHz Bandwidth 5832MHz Ant2 Peak



Restrict Band NVNT 20MHz Bandwidth 5832MHz Ant2 Average



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C.5 Frequency Stability

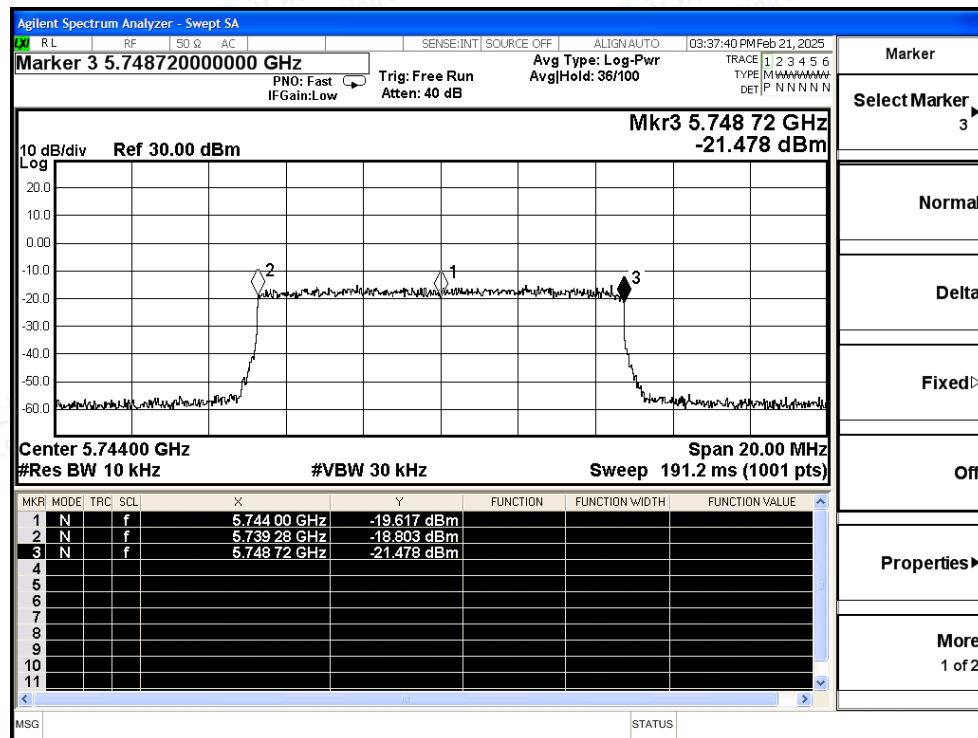
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	10MHz Bandwidth	5744	Ant1	5744.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5788	Ant1	5788.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5832	Ant1	5832.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5744	Ant1	5744.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5788	Ant1	5788.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5832	Ant1	5832.00	0	0	25	Pass



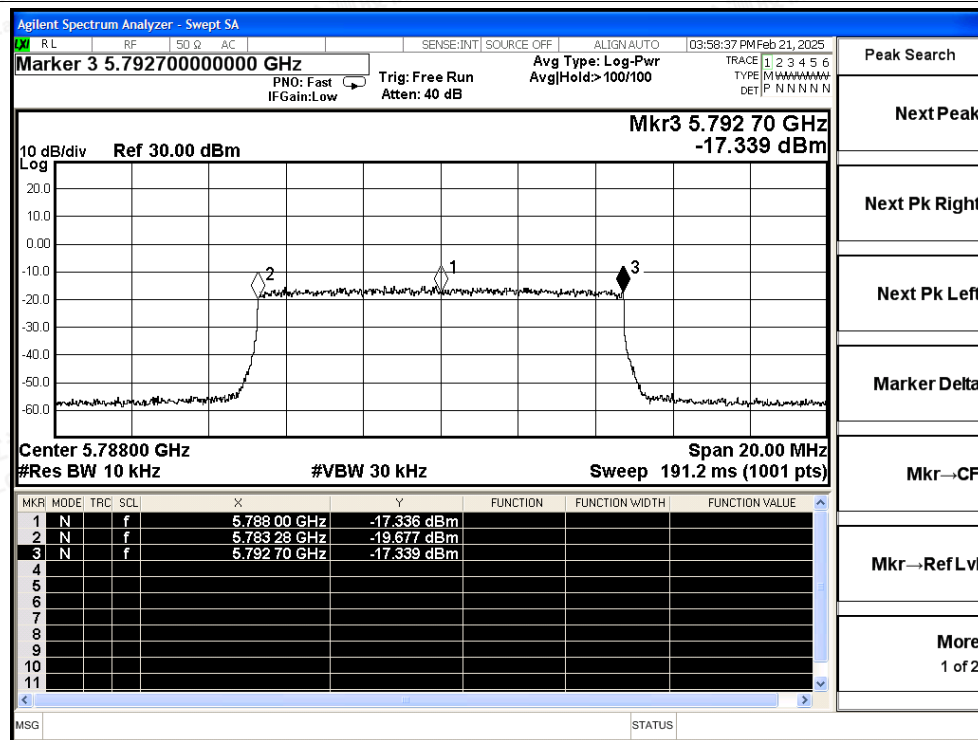


Test Graphs

Freq. Stability NVNT 10MHz Bandwidth 5744MHz Ant1



Freq. Stability NVNT 10MHz Bandwidth 5788MHz Ant1

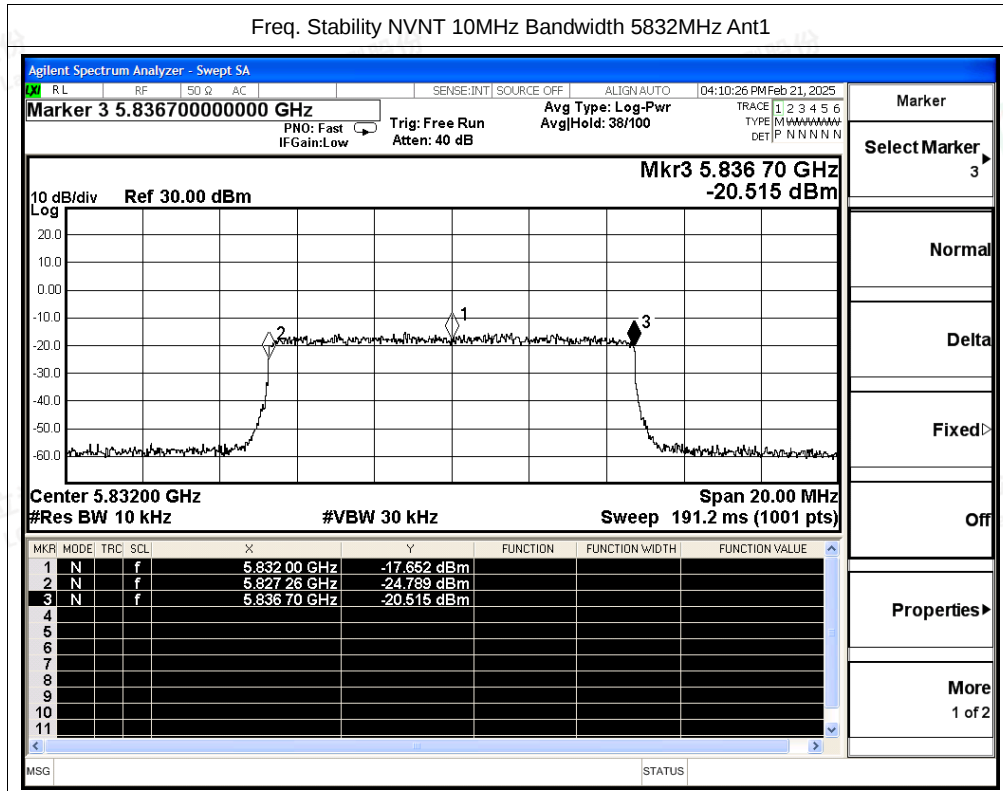


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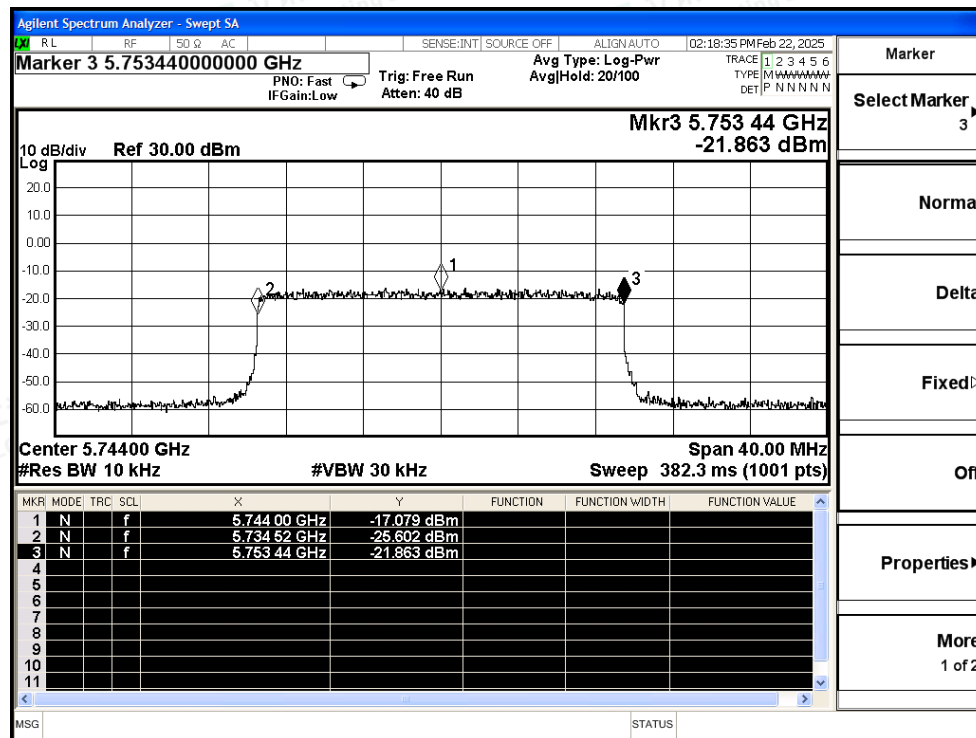
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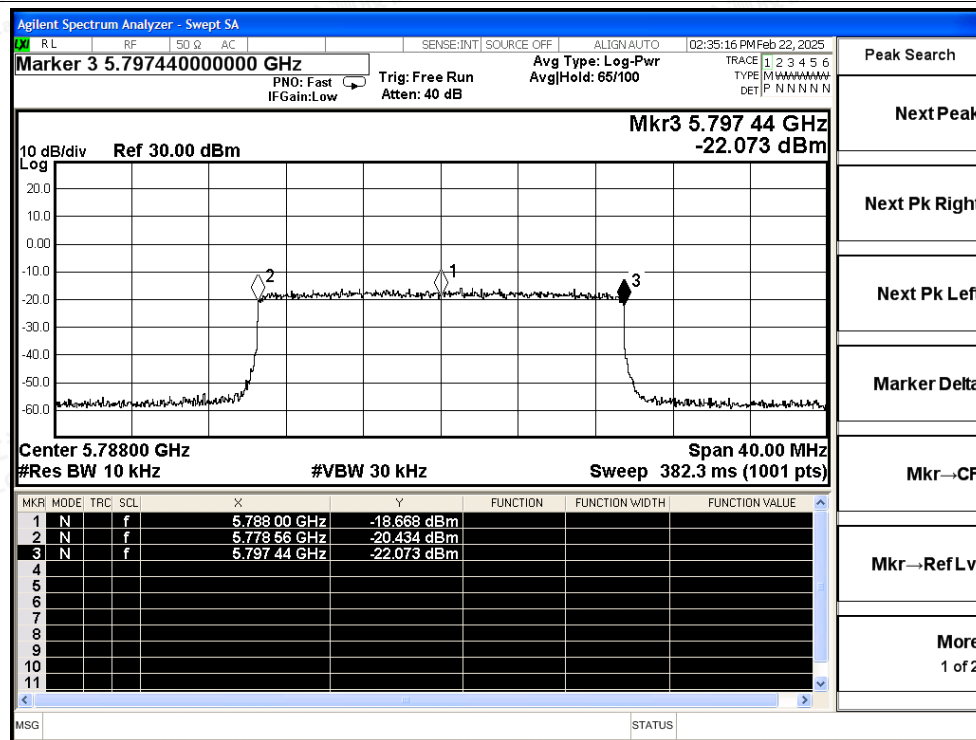


Test Graphs

Freq. Stability NVNT 20MHz Bandwidth 5744MHz Ant1



Freq. Stability NVNT 20MHz Bandwidth 5788MHz Ant1

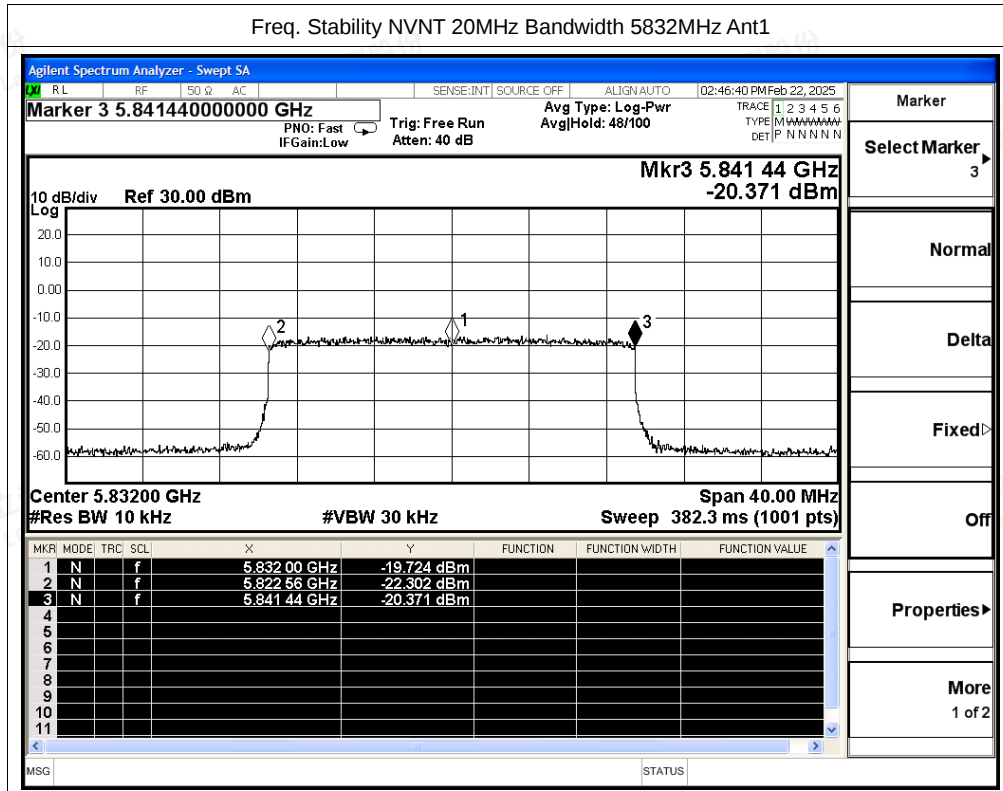


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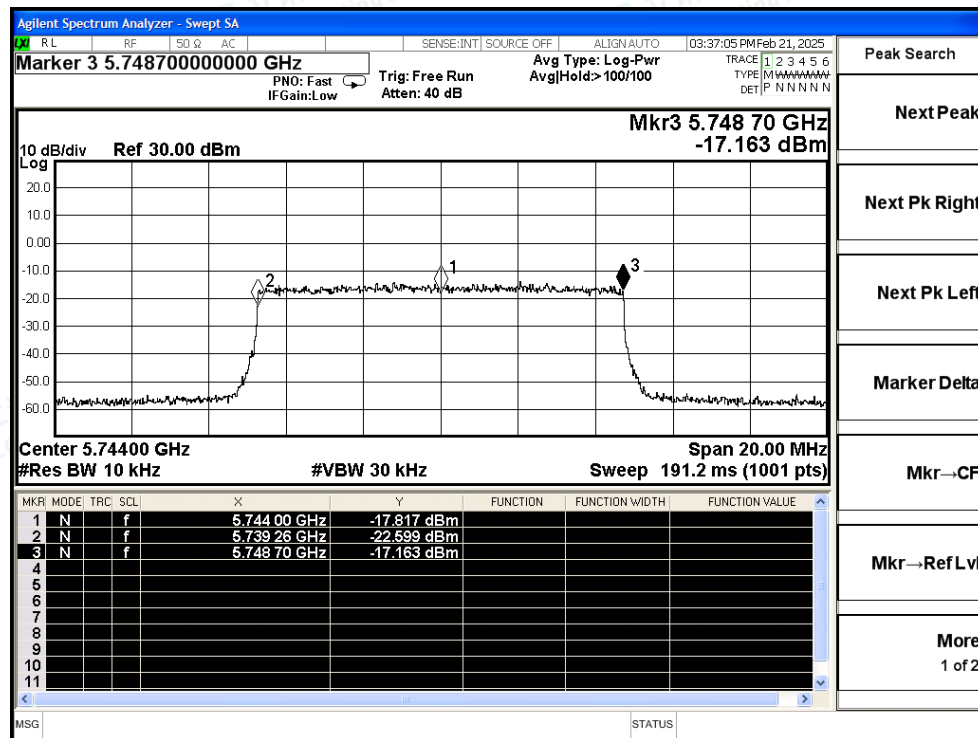
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	10MHz Bandwidth	5744	Ant2	5744.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5788	Ant2	5788.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5832	Ant2	5832.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5744	Ant2	5744.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5788	Ant2	5788.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5832	Ant2	5832.00	0	0	25	Pass



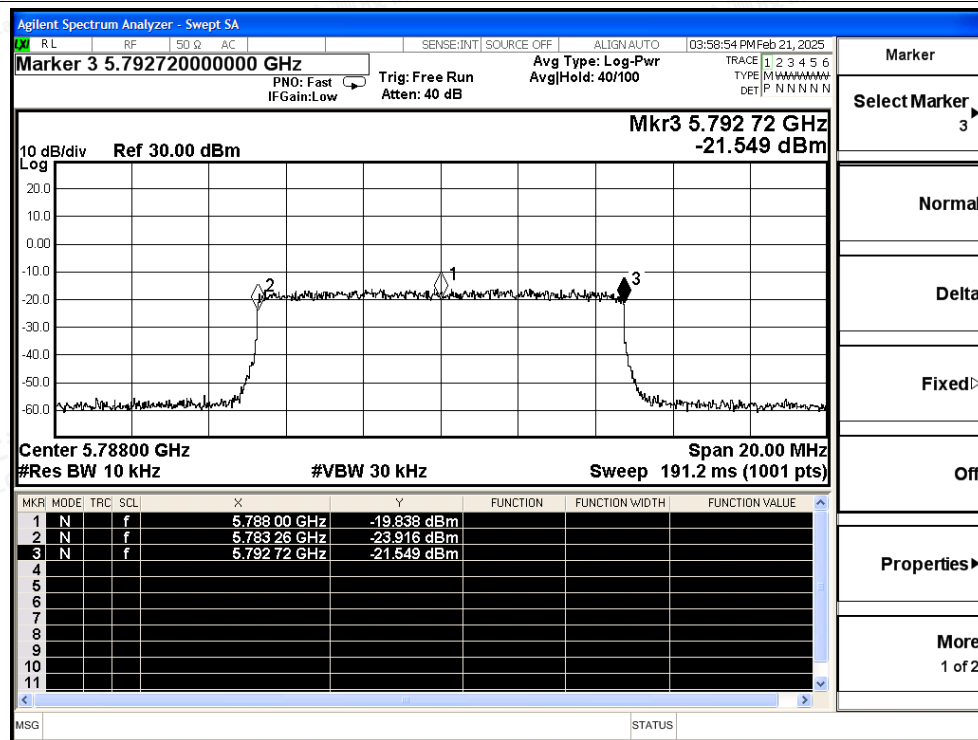


Test Graphs

Freq. Stability NVNT 10MHz Bandwidth 5744MHz Ant2



Freq. Stability NVNT 10MHz Bandwidth 5788MHz Ant2

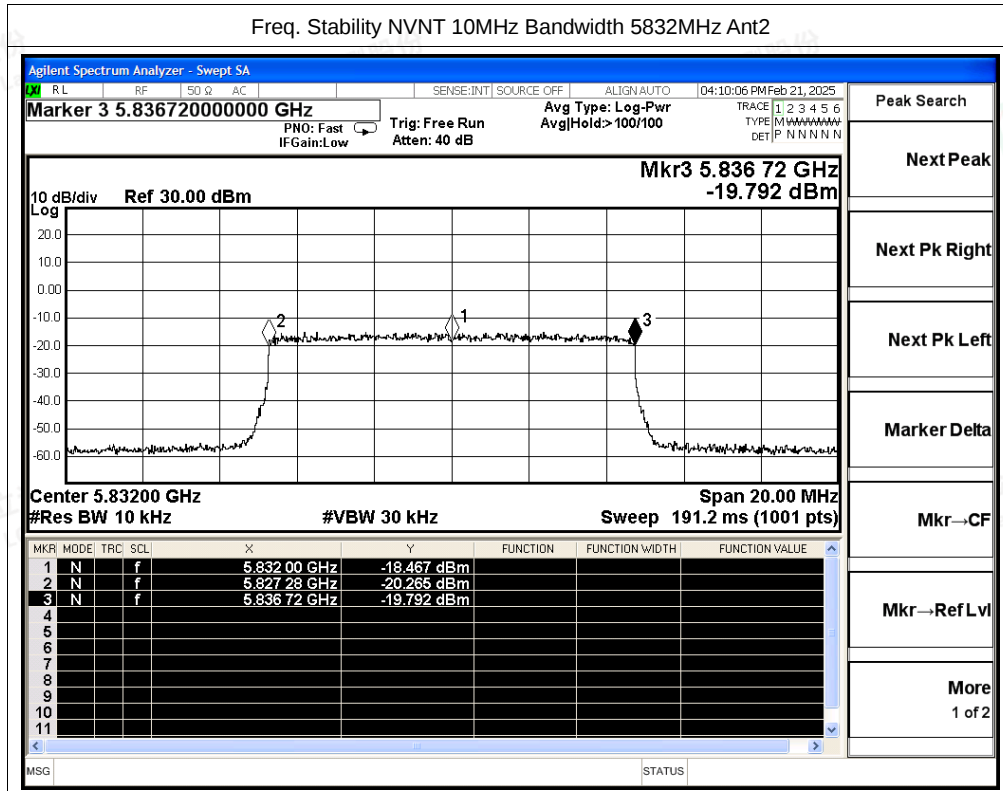


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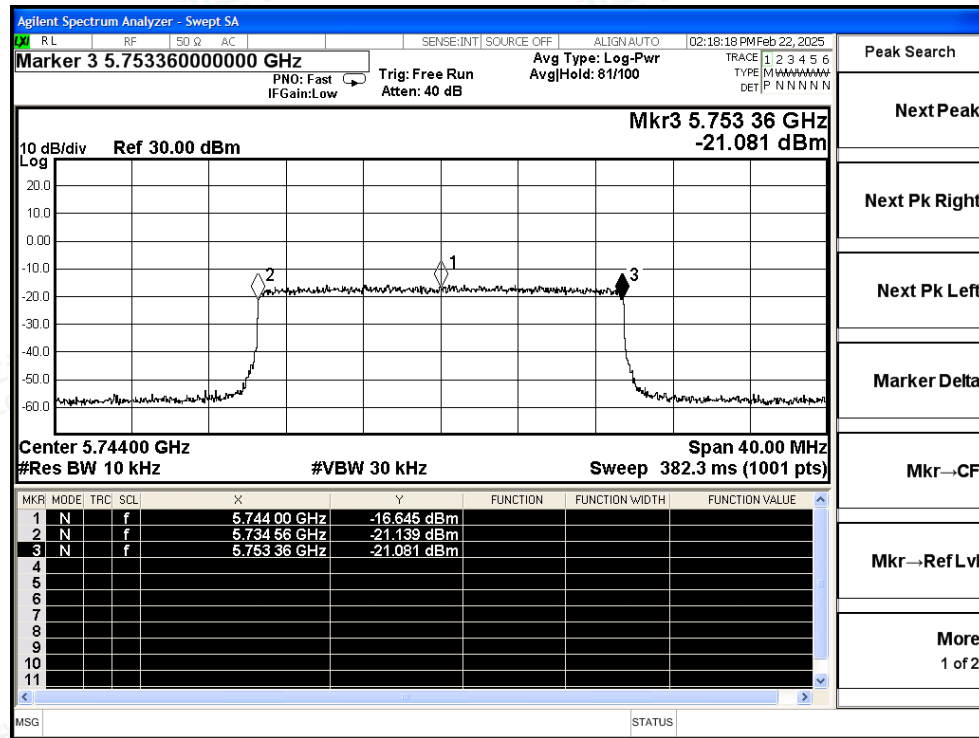
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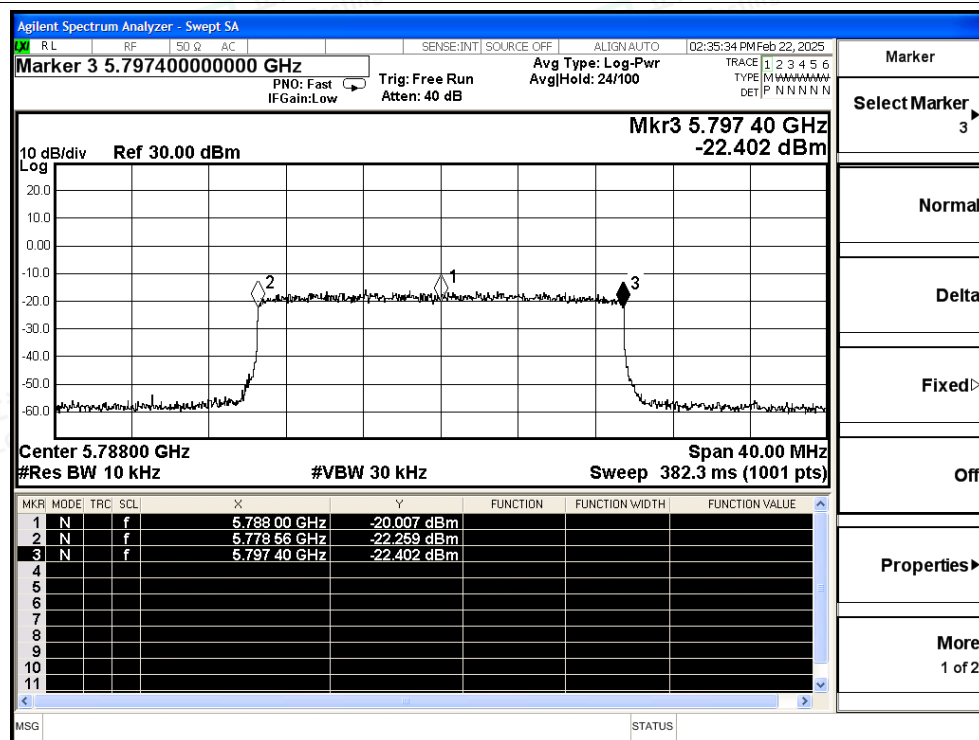


Test Graphs

Freq. Stability NVNT 20MHz Bandwidth 5744MHz Ant2



Freq. Stability NVNT 20MHz Bandwidth 5788MHz Ant2

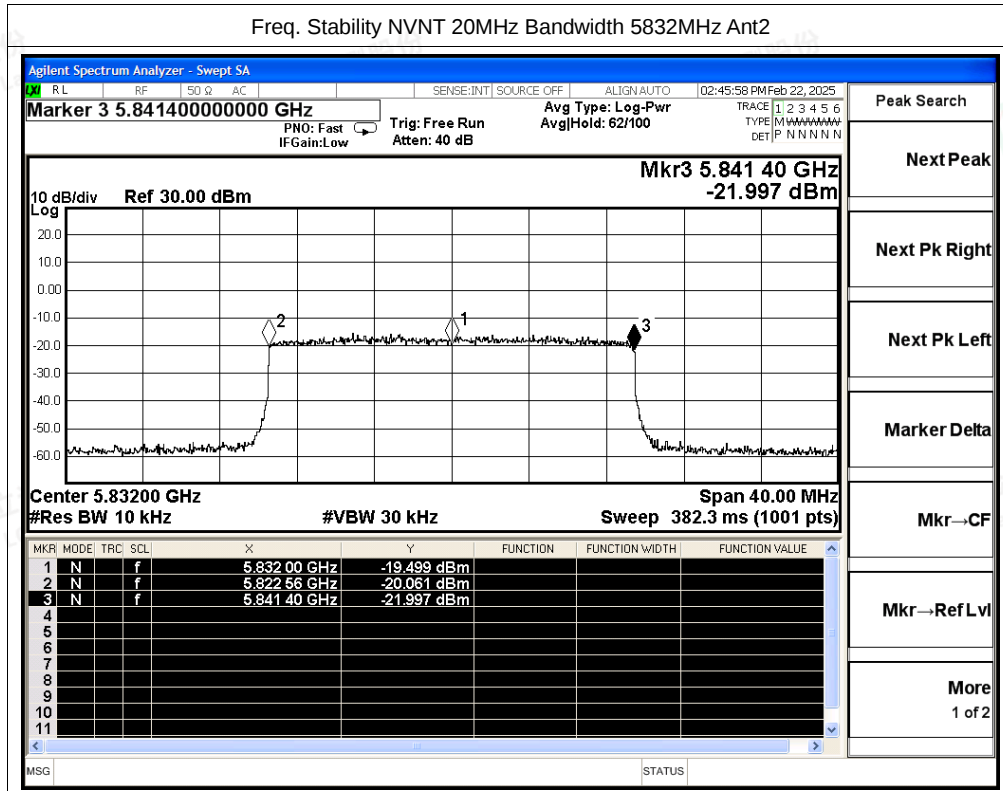


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C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	10MHz Bandwidth	5744	Ant1	73.08	1.36	0.62
NVNT	10MHz Bandwidth	5788	Ant1	72.52	1.40	0.62
NVNT	10MHz Bandwidth	5832	Ant1	72.97	1.37	0.62
NVNT	20MHz Bandwidth	5744	Ant1	72.52	1.4	0.62
NVNT	20MHz Bandwidth	5788	Ant1	73.28	1.35	0.61
NVNT	20MHz Bandwidth	5832	Ant1	73.28	1.35	0.61



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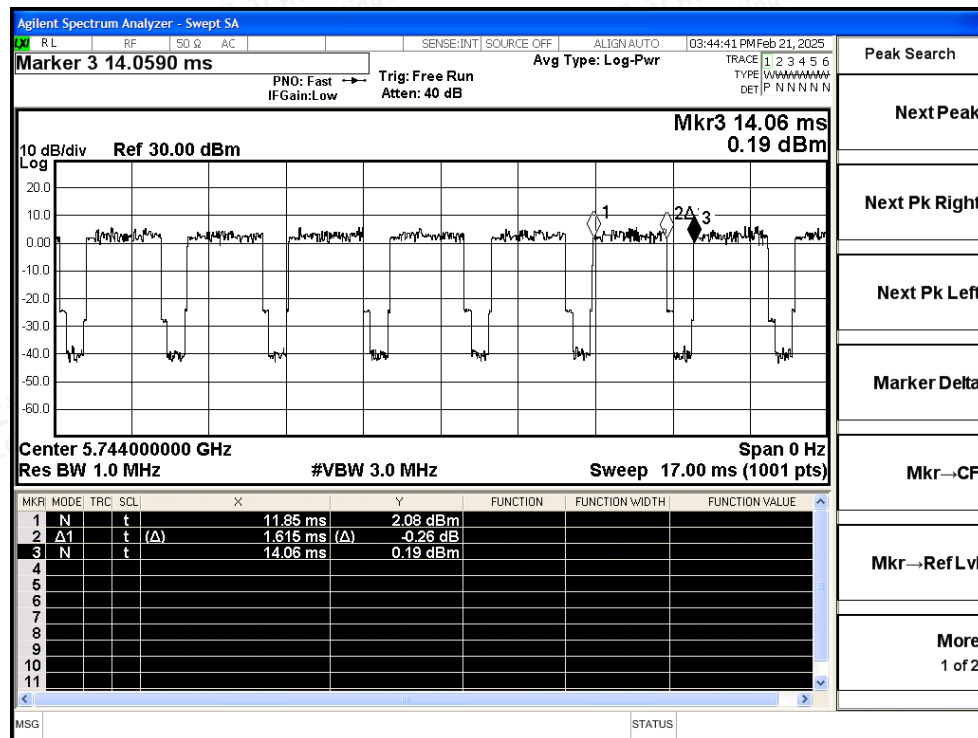
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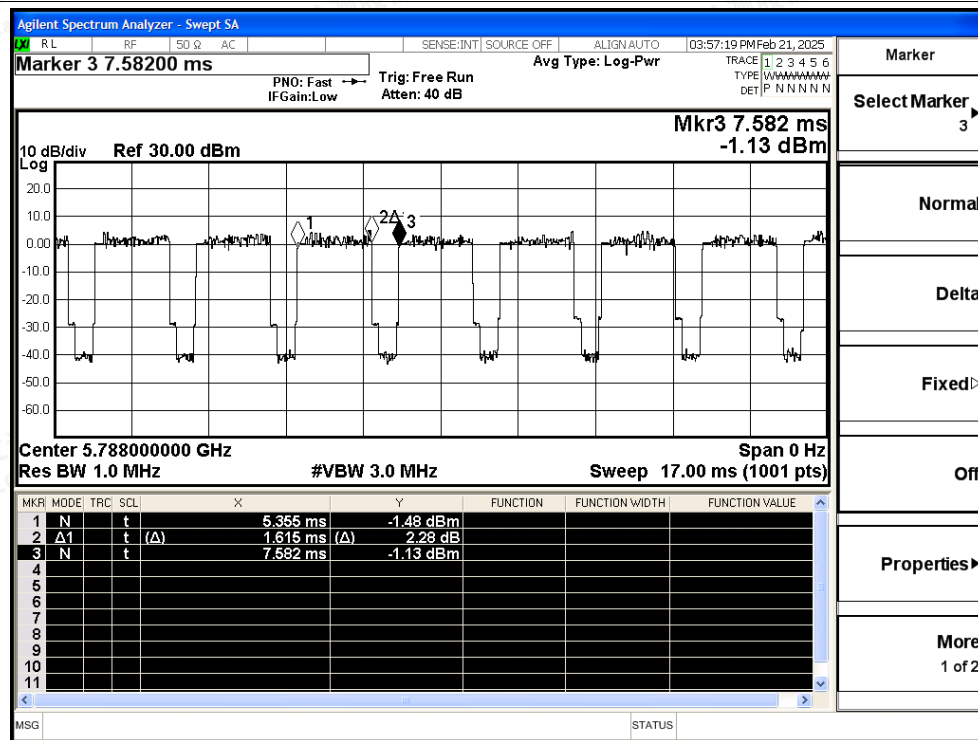


Test Graphs

Duty Cycle NVNT 10MHz Bandwidth 5744MHz Ant1



Duty Cycle NVNT 10MHz Bandwidth 5788MHz Ant1

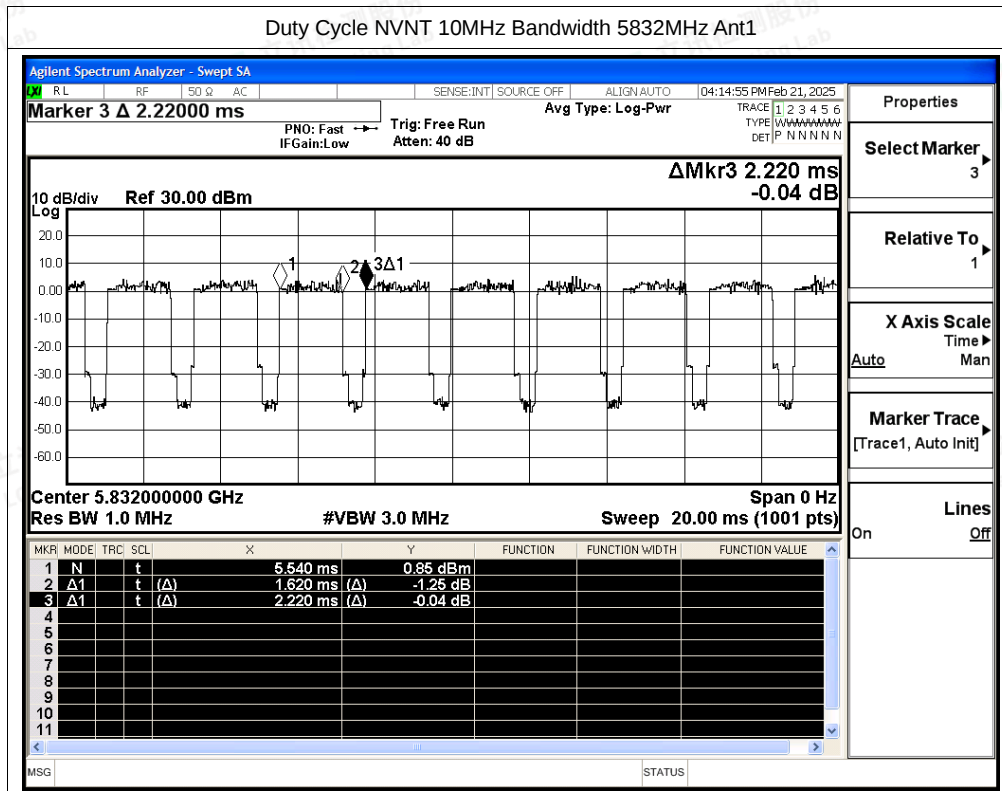


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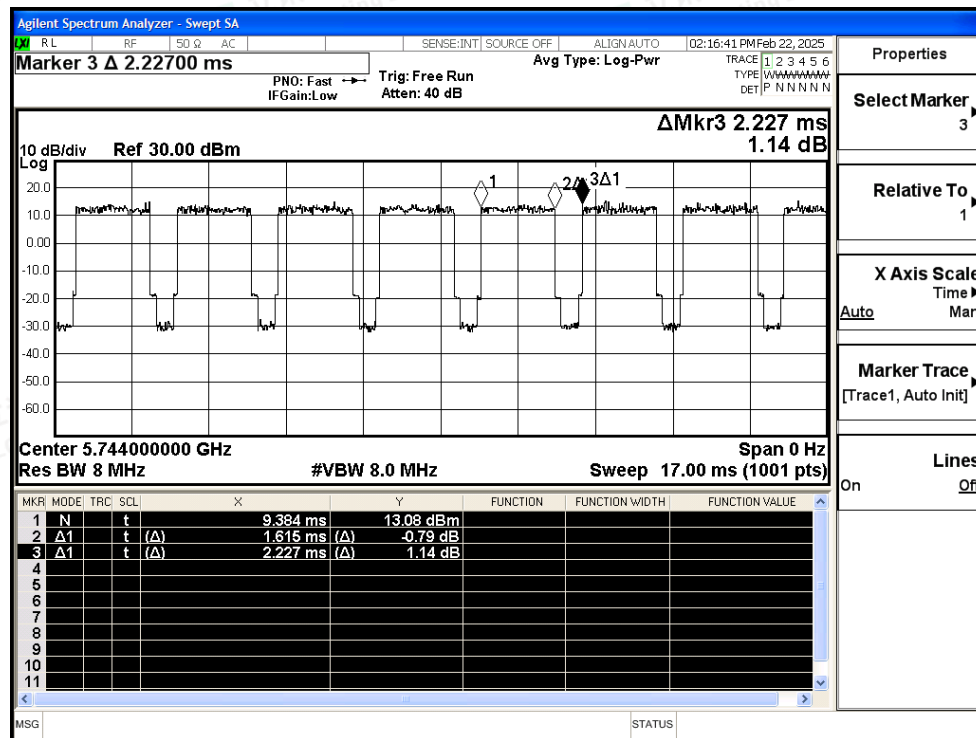
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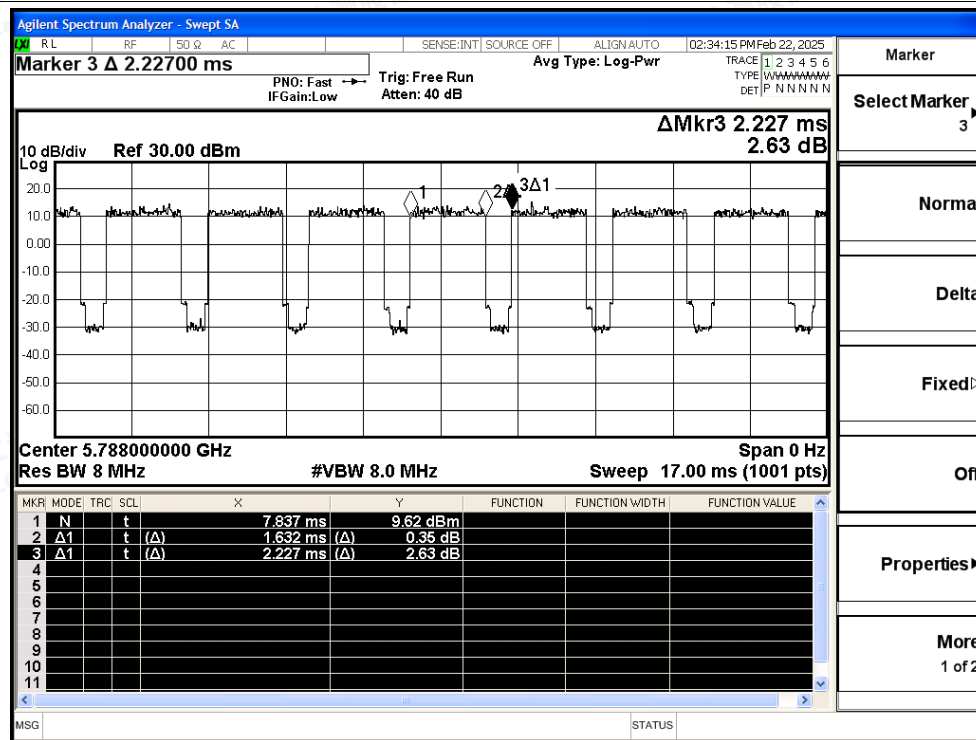


Test Graphs

Duty Cycle NVNT 20MHz Bandwidth 5744MHz Ant1



Duty Cycle NVNT 20MHz Bandwidth 5788MHz Ant1

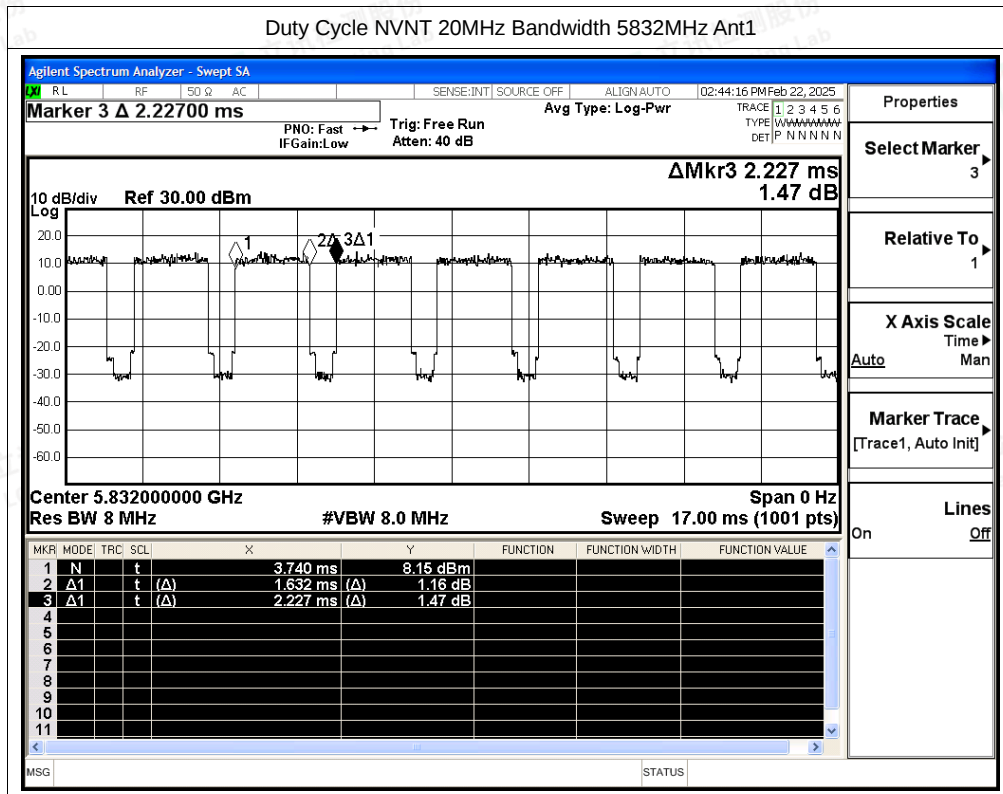


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Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	10MHz Bandwidth	5744	Ant2	72.75	1.38	0.62
NVNT	10MHz Bandwidth	5788	Ant2	72.52	1.40	0.62
NVNT	10MHz Bandwidth	5832	Ant2	72.97	1.37	0.62
NVNT	20MHz Bandwidth	5744	Ant2	73.08	1.36	0.62
NVNT	20MHz Bandwidth	5788	Ant2	72.52	1.4	0.62
NVNT	20MHz Bandwidth	5832	Ant2	73.28	1.35	0.61



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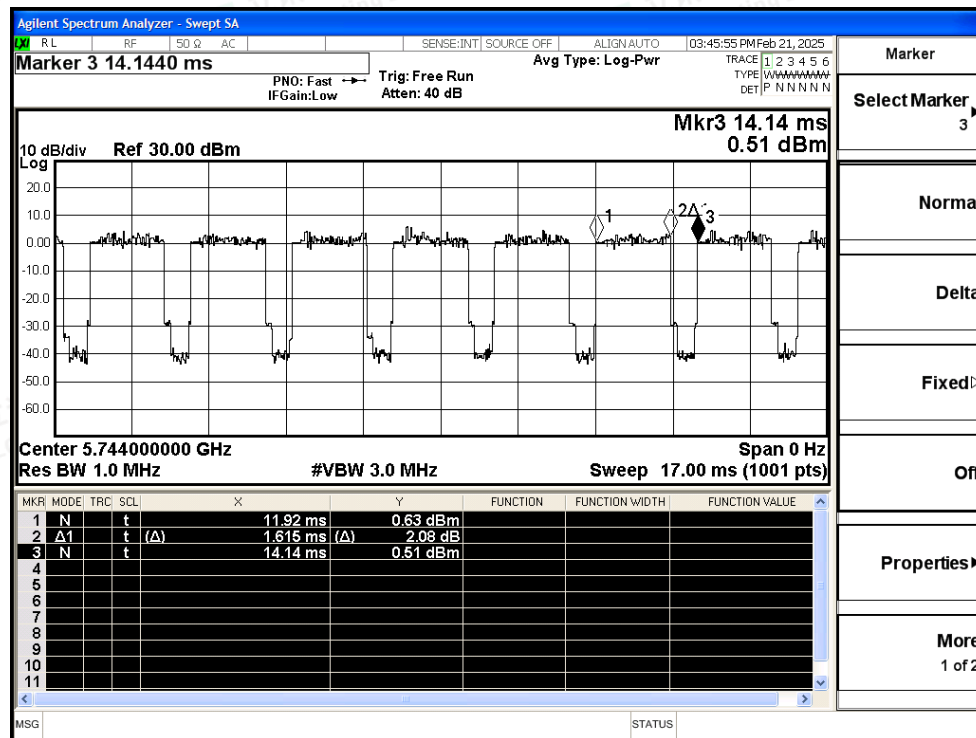
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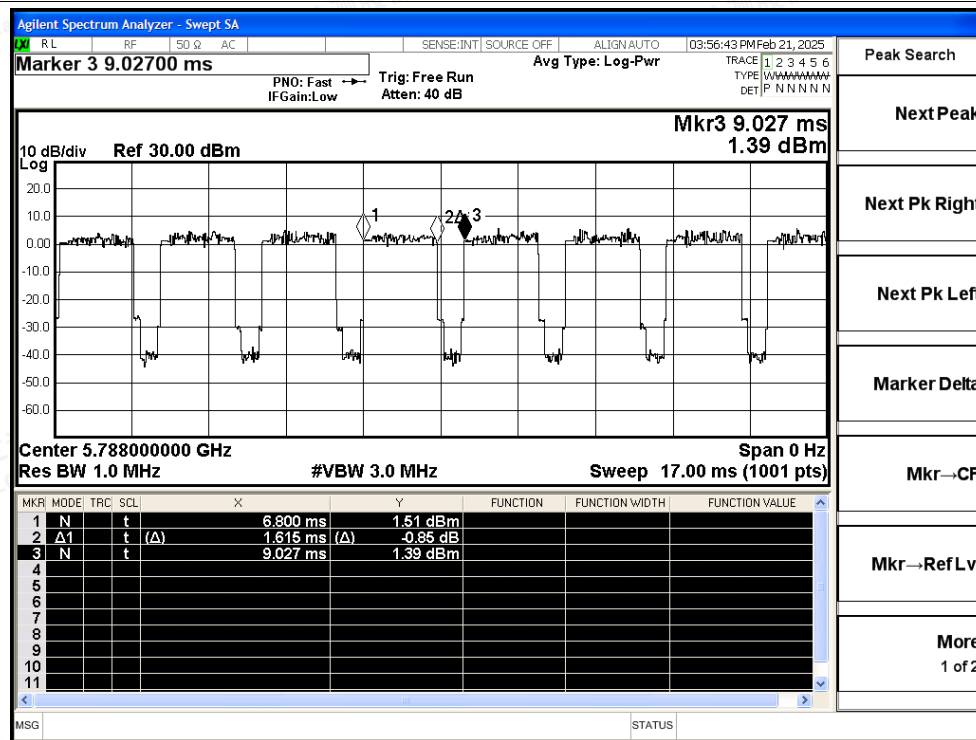


Test Graphs

Duty Cycle NVNT 10MHz Bandwidth 5744MHz Ant2



Duty Cycle NVNT 10MHz Bandwidth 5788MHz Ant2

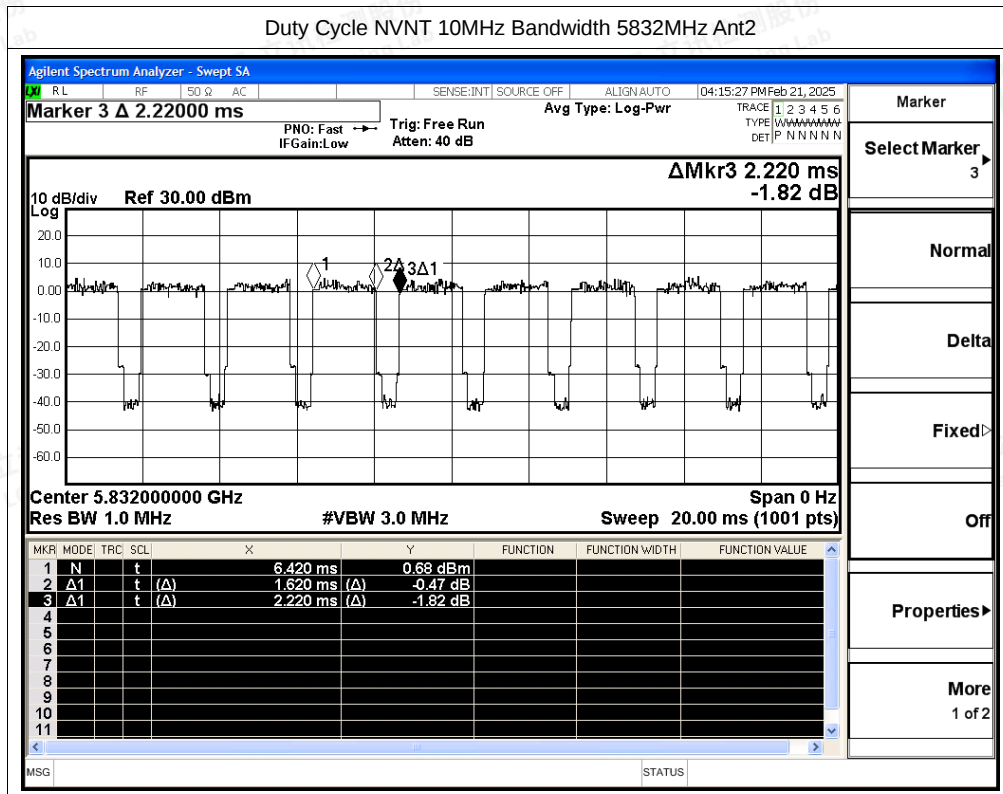


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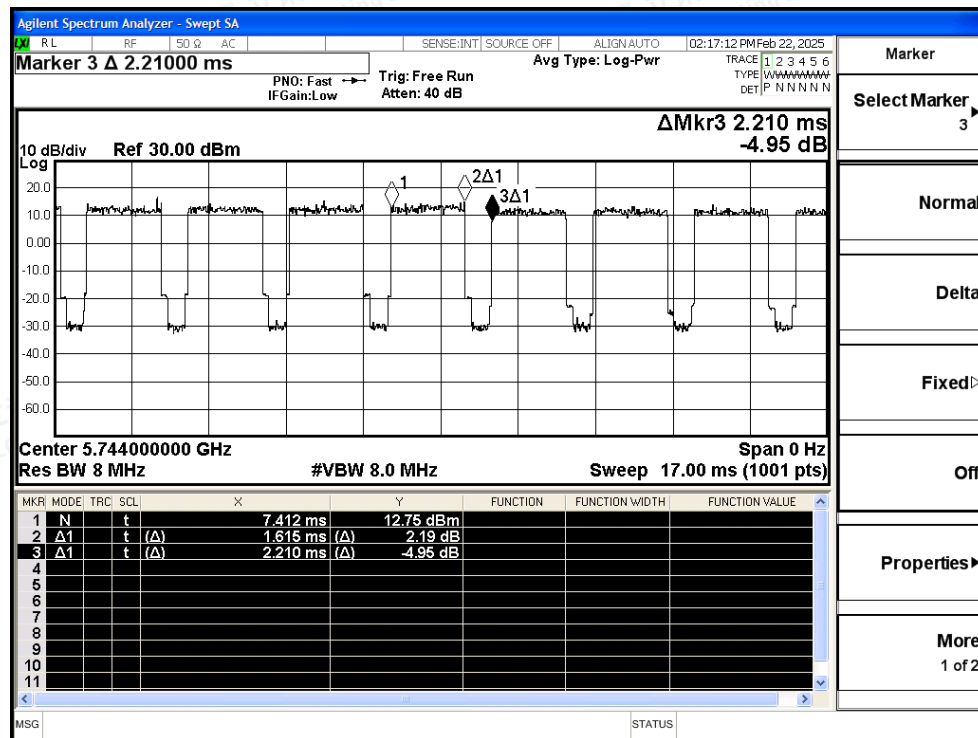
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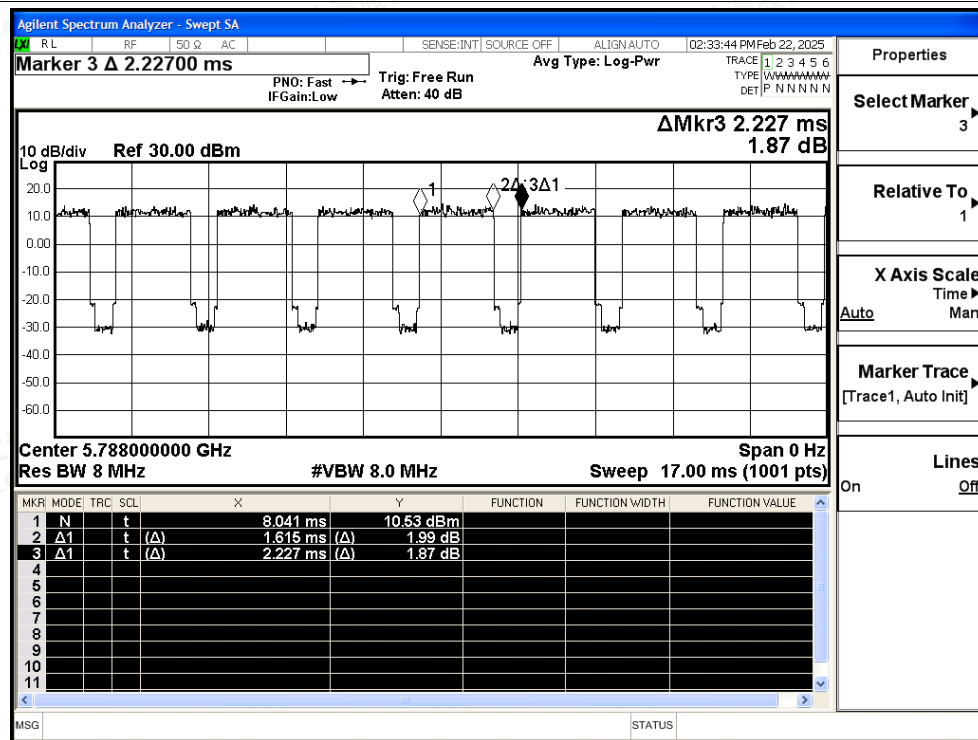


Test Graphs

Duty Cycle NVNT 20MHz Bandwidth 5744MHz Ant2



Duty Cycle NVNT 20MHz Bandwidth 5788MHz Ant2

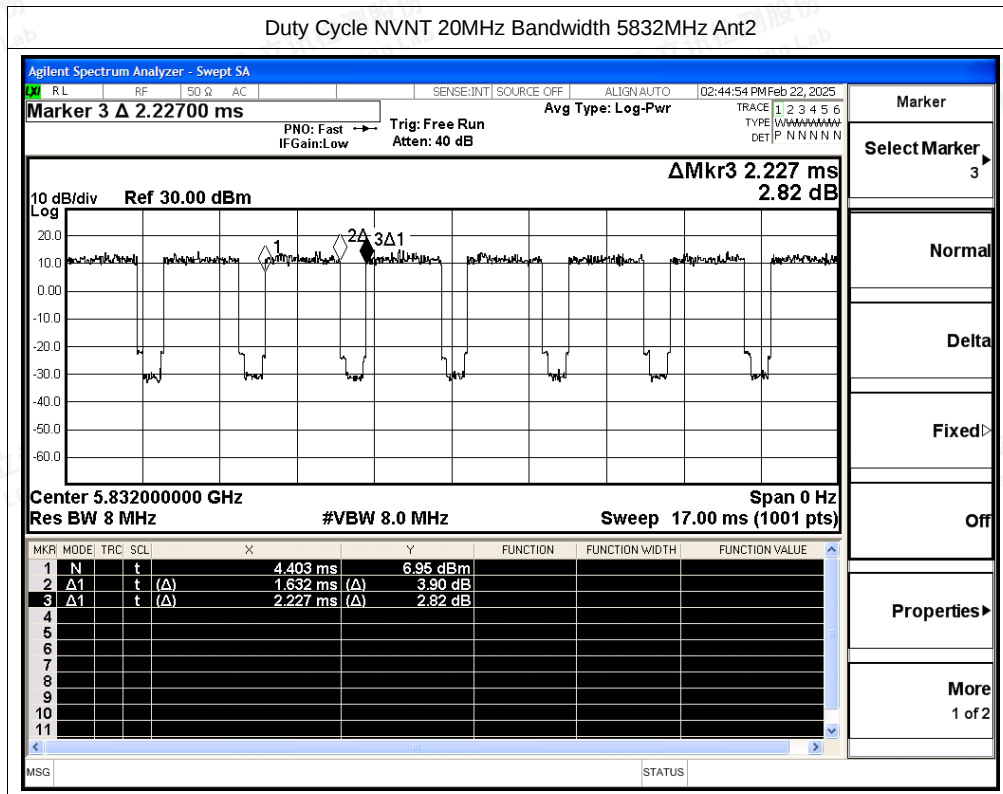


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