FCC Appendix RF Test Data for 5.2GWIFI

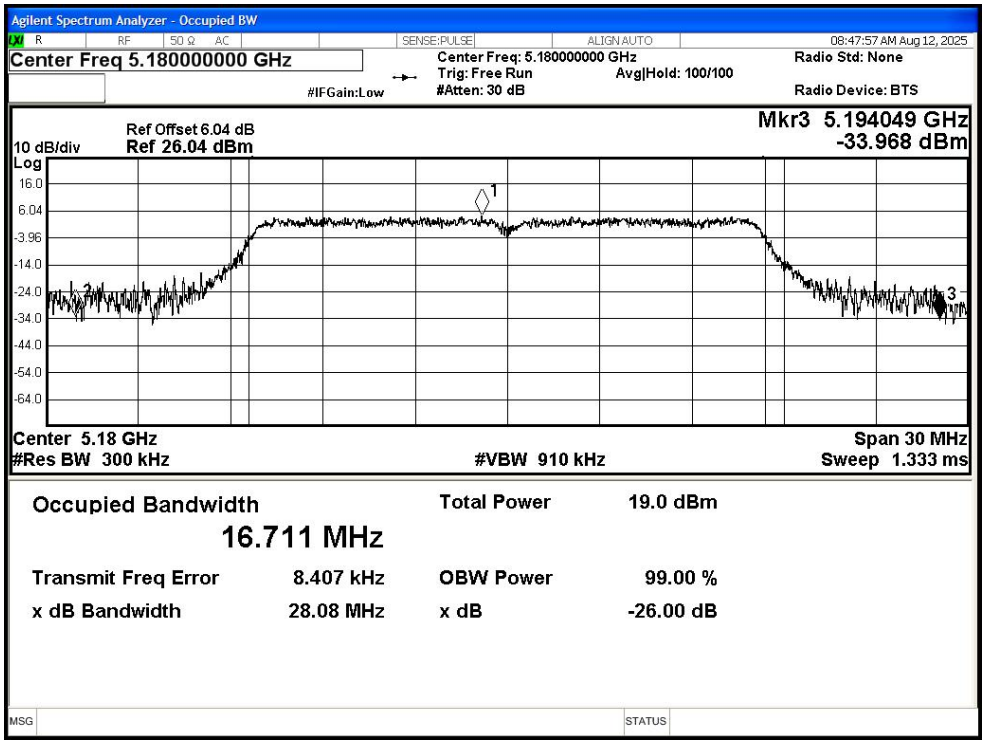
FCC ID	**:**	**2BNXK-P-LFPO1**
Company:	**:**	**Shenzhen Limpet Technology Co., Ltd.**
EUT	**:**	**Wali Smart Pet Feeder With AI Camera**
Model Number	**:**	**P-LFP01**
Report No.	**:**	**CTA25070500603**
Reviewed By	**:**	**Eric Wang**

-26dB Bandwidth

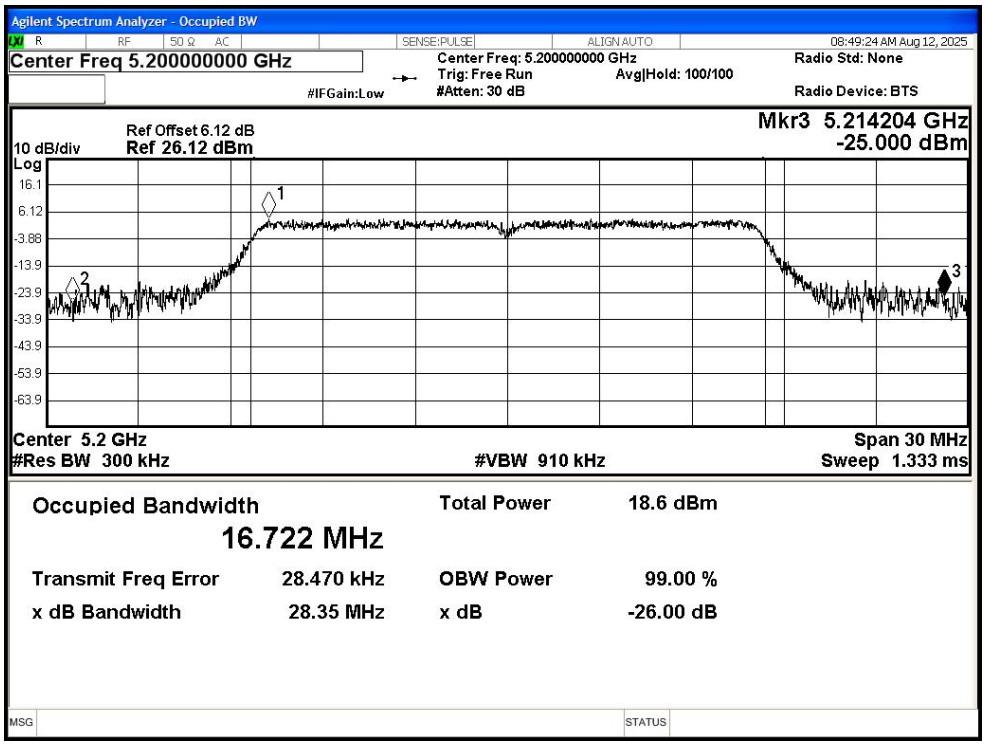
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	28.081	---	Pass
NVNT	a	5200	Ant1	28.351	---	Pass
NVNT	a	5240	Ant1	28.668	---	Pass
NVNT	n20	5180	Ant1	28.044	---	Pass
NVNT	n20	5200	Ant1	27.719	---	Pass
NVNT	n20	5240	Ant1	28.71	---	Pass

Test Graphs

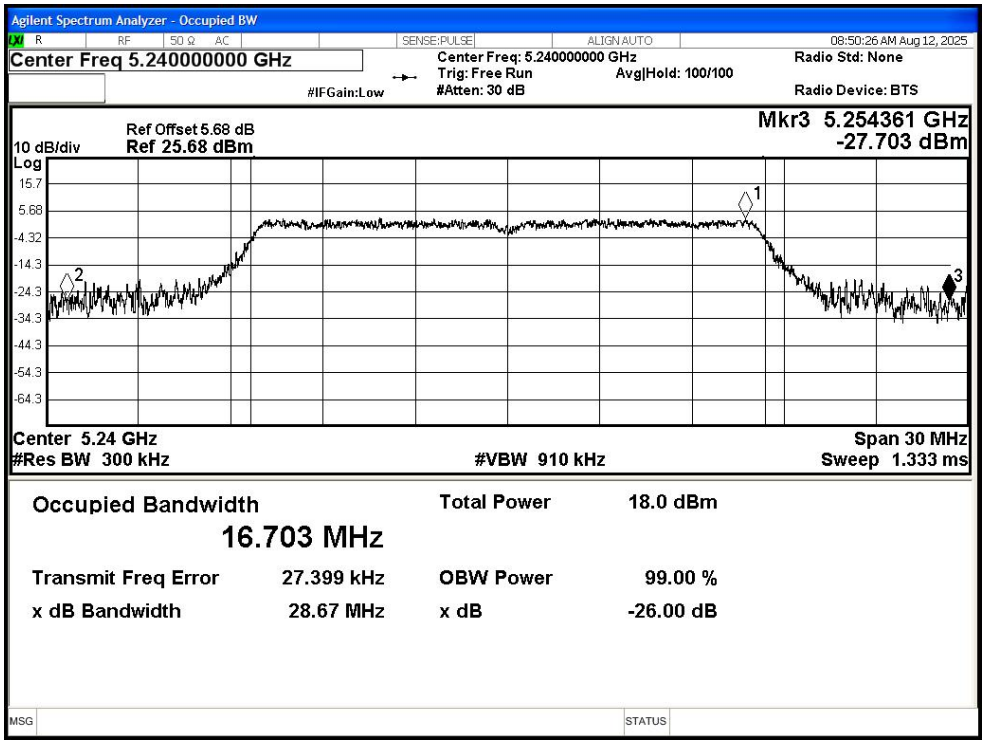
-26dB Bandwidth NVNT a 5180MHz Ant1



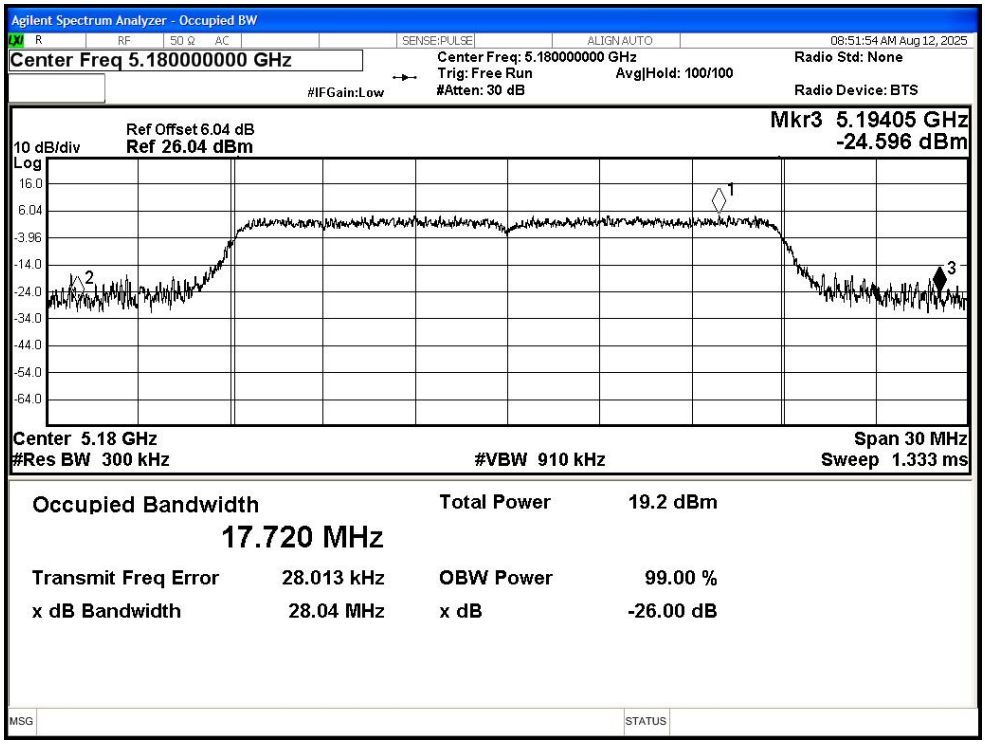
-26dB Bandwidth NVNT a 5200MHz Ant1



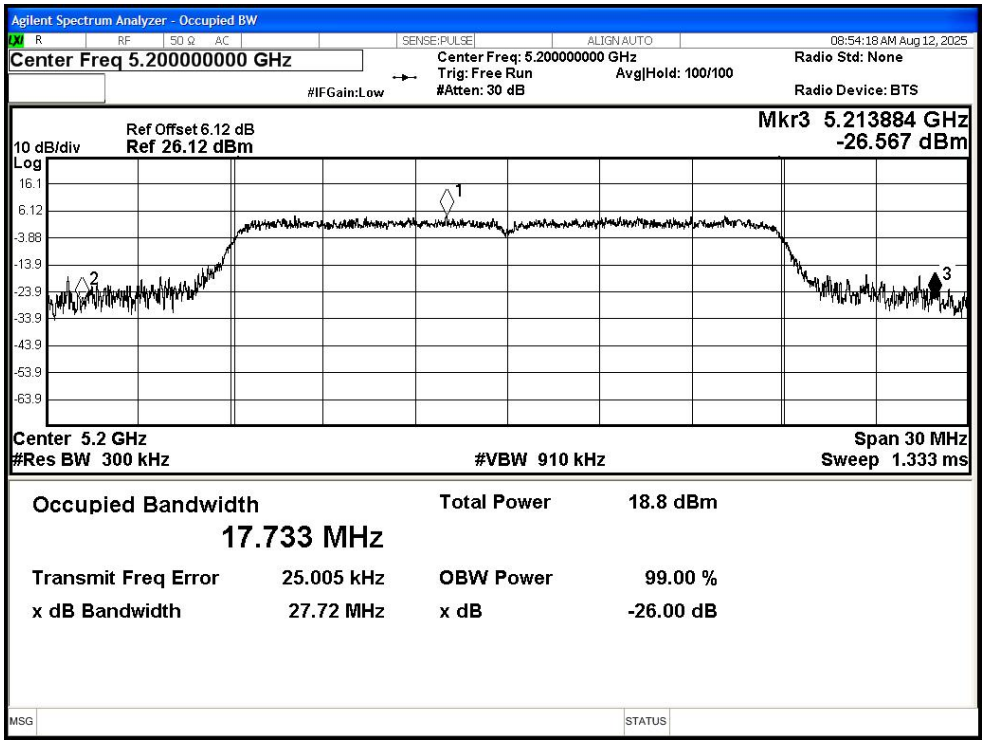
-26dB Bandwidth NVNT a 5240MHz Ant1



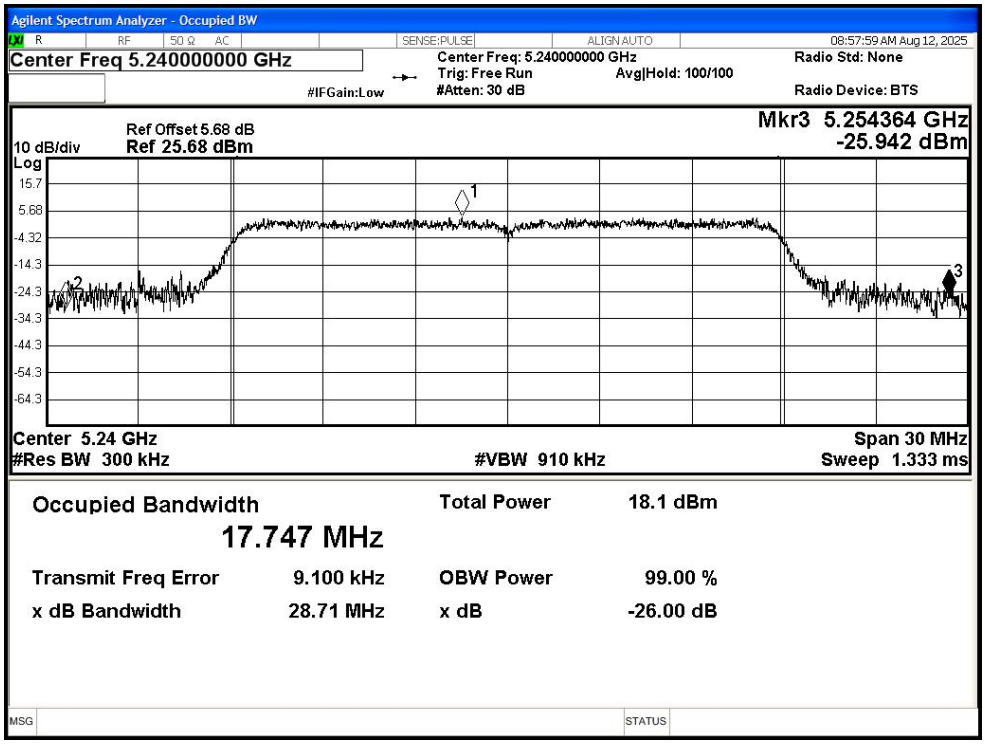
-26dB Bandwidth NVNT n20 5180MHz Ant1



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



Maximum Conducted Output Power

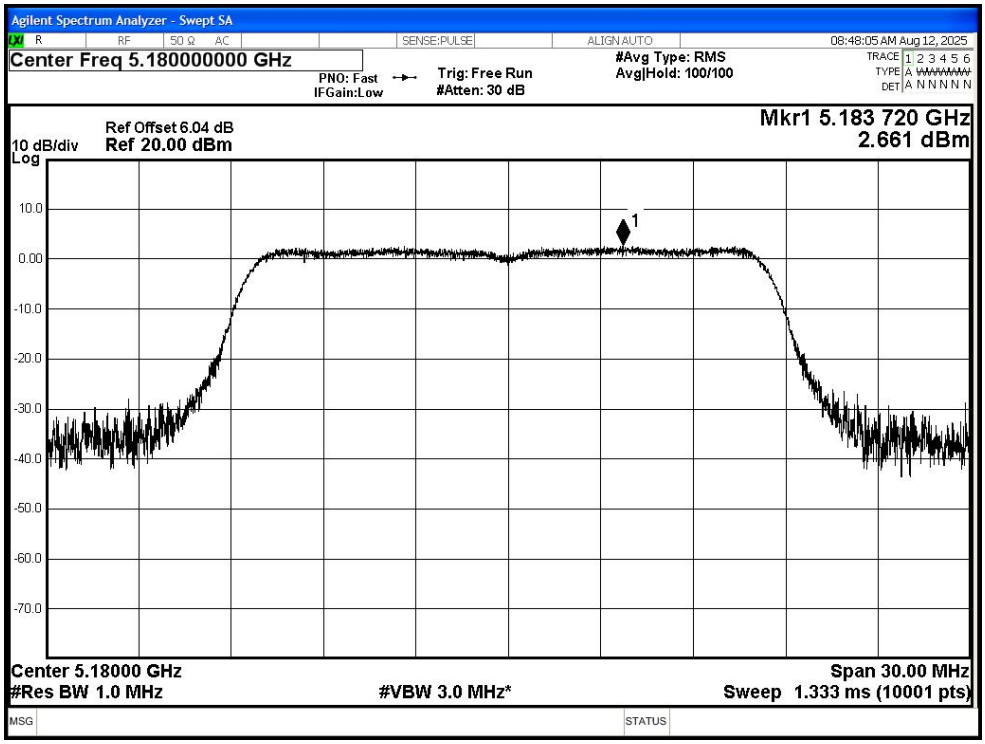
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	13.4	0.19	13.59	24	Pass
NVNT	a	5200	Ant1	13.03	0.19	13.22	24	Pass
NVNT	a	5240	Ant1	12.29	0.19	12.48	24	Pass
NVNT	n20	5180	Ant1	13.61	0.23	**13.84**	24	Pass
NVNT	n20	5200	Ant1	13.31	0.23	13.54	24	Pass
NVNT	n20	5240	Ant1	12.39	0.23	12.62	24	Pass

Maximum Power Spectral Density Level

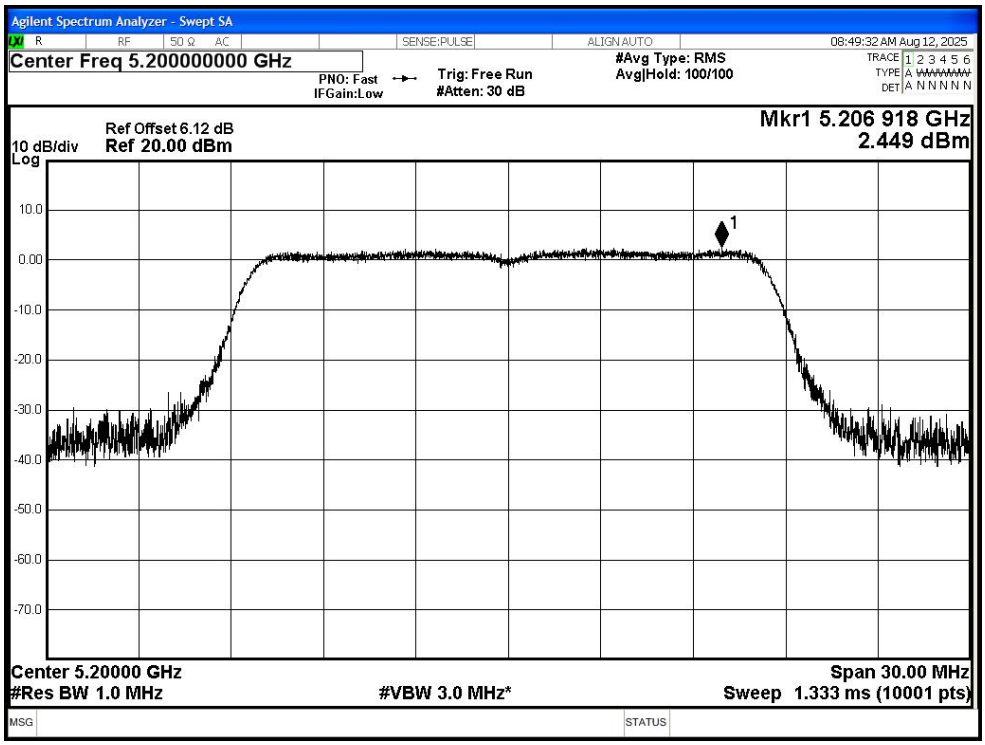
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz))	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	2.66	0.19	2.85	11	Pass
NVNT	a	5200	Ant1	2.45	0.19	2.64	11	Pass
NVNT	a	5240	Ant1	1.51	0.19	1.7	11	Pass
NVNT	n20	5180	Ant1	2.74	0.23	2.97	11	Pass
NVNT	n20	5200	Ant1	2.63	0.23	2.86	11	Pass
NVNT	n20	5240	Ant1	1.62	0.23	1.85	11	Pass

Test Graphs

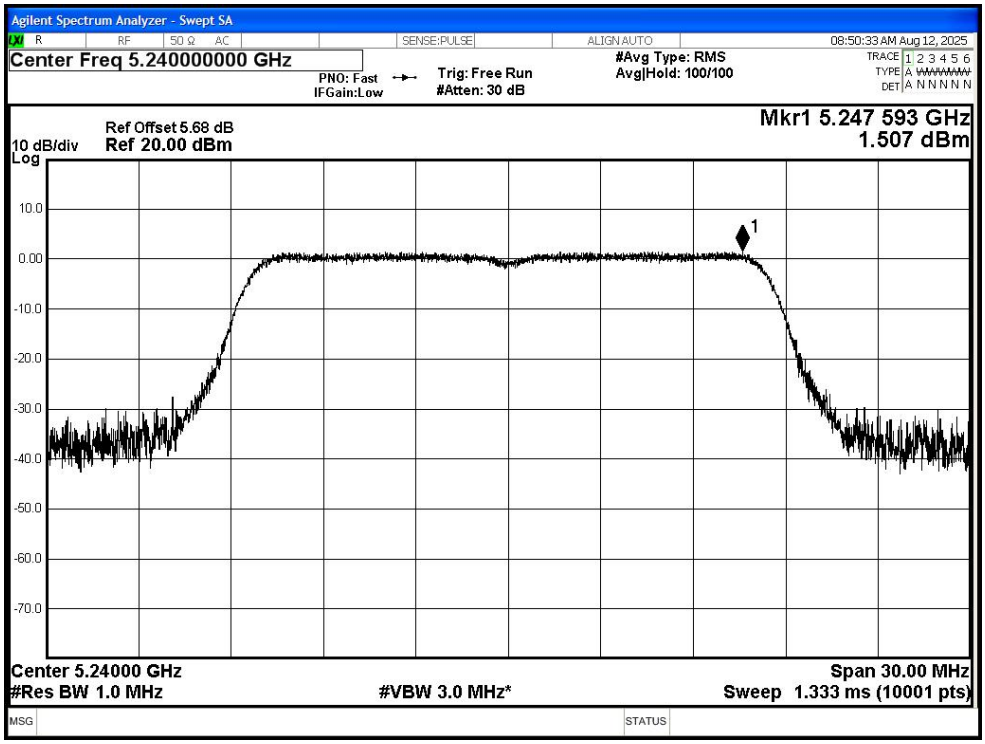
PSD NVNT a 5180MHz Ant1



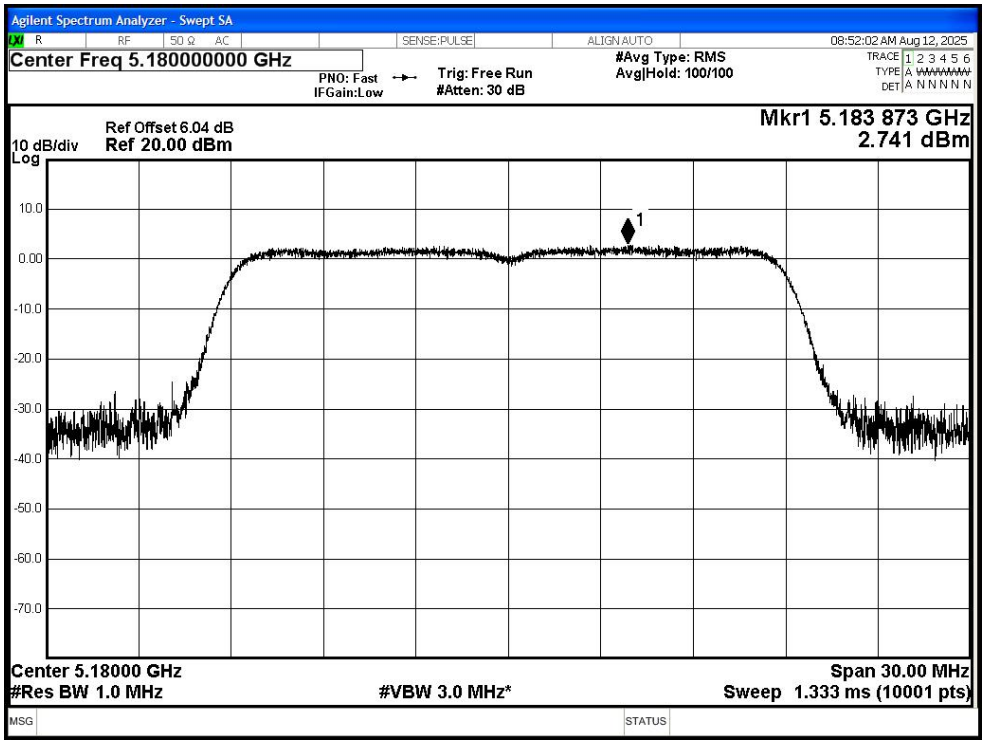
PSD NVNT a 5200MHz Ant1



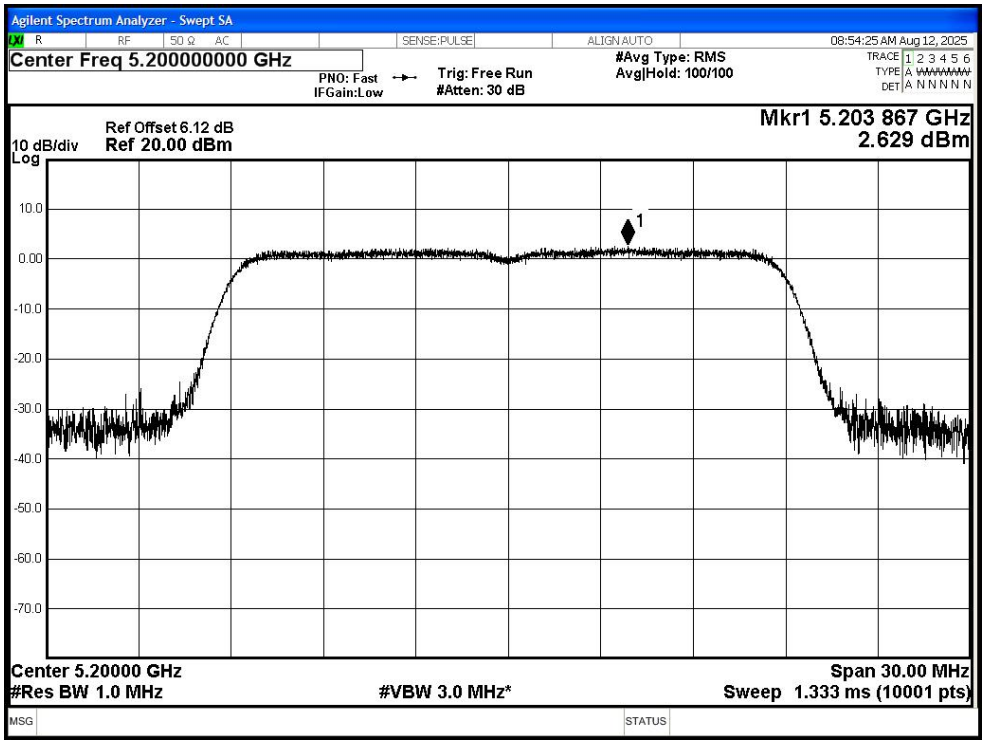
PSD NVNT a 5240MHz Ant1



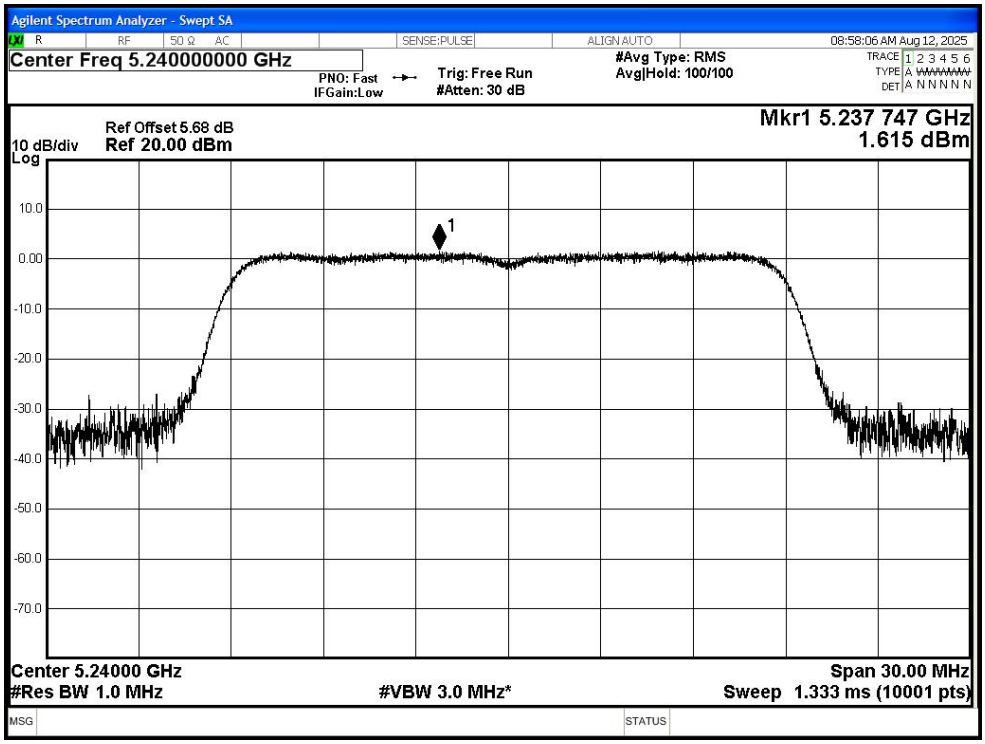
PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1

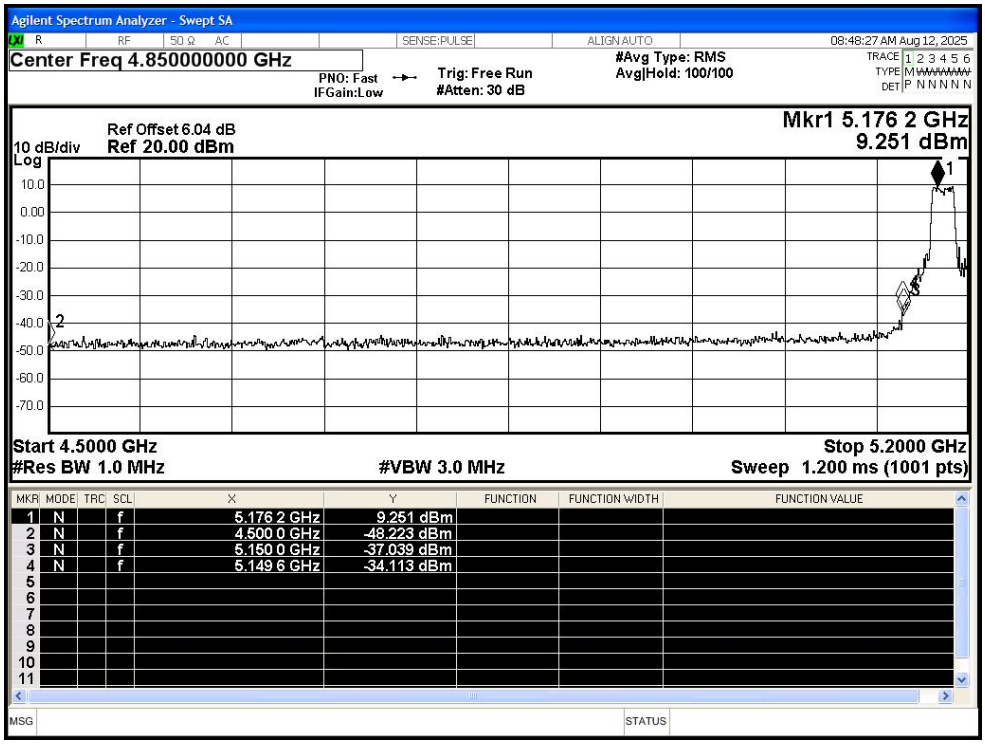


Restrict Band

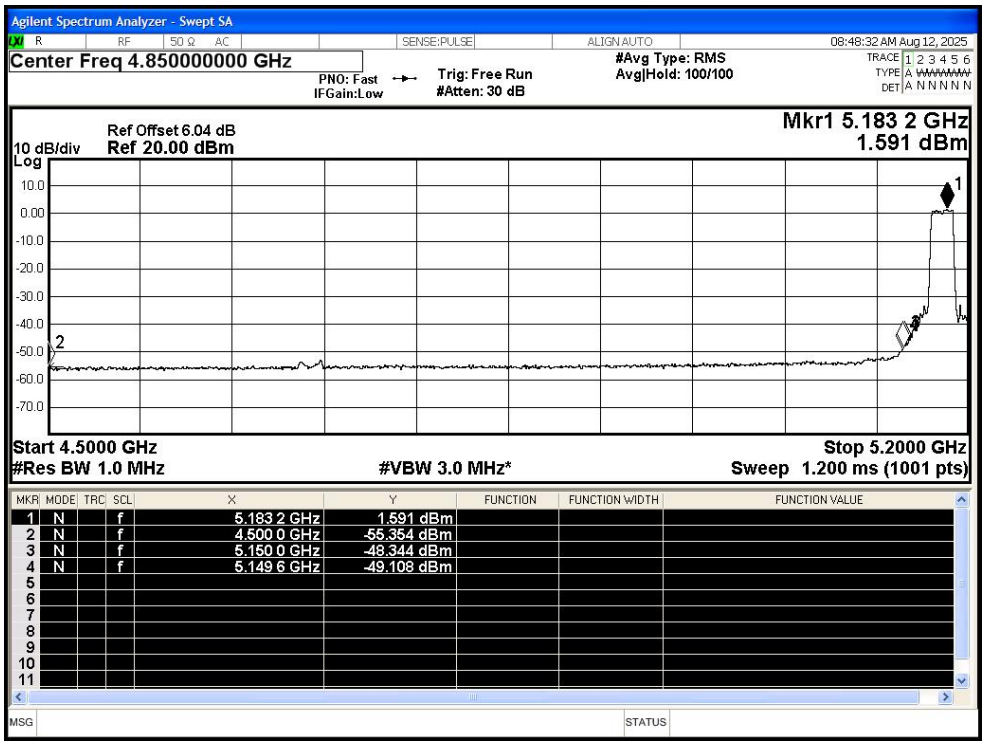
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-48.22	5.26	-	52.27	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-55.35	5.26	0.19	45.33	Average	54	Pass
NVNT	a	5180	Ant1	5149.6	-34.11	5.26	-	66.38	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-49.11	5.26	0.19	51.57	Average	54	Pass
NVNT	a	5180	Ant1	5150	-37.04	5.26	-	63.45	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-48.34	5.26	0.19	52.34	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.09	5.26	-	53.40	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-54.92	5.26	0.19	45.76	Average	54	Pass
NVNT	a	5240	Ant1	5424.96	-45.05	5.26	-	55.44	Peak	68.2	Pass
NVNT	a	5240	Ant1	5351.52	-54.22	5.26	0.19	46.46	Average	54	Pass
NVNT	a	5240	Ant1	5460	-47.71	5.26	-	52.78	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-55.37	5.26	0.19	45.31	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-47.39	5.26	-	53.10	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-55.92	5.26	0.23	44.80	Average	54	Pass
NVNT	n20	5180	Ant1	5145.4	-34.87	5.26	-	65.62	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5148.9	-46.6	5.26	0.23	54.12	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-32.32	5.26	-	68.17	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-46.89	5.26	0.23	53.83	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-46.57	5.26	-	53.92	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-55.17	5.26	0.23	45.55	Average	54	Pass
NVNT	n20	5240	Ant1	5441.04	-44.48	5.26	-	56.01	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5352	-54.37	5.26	0.23	46.35	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-47.72	5.26	-	52.77	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-55.5	5.26	0.23	45.22	Average	54	Pass

Test Graphs

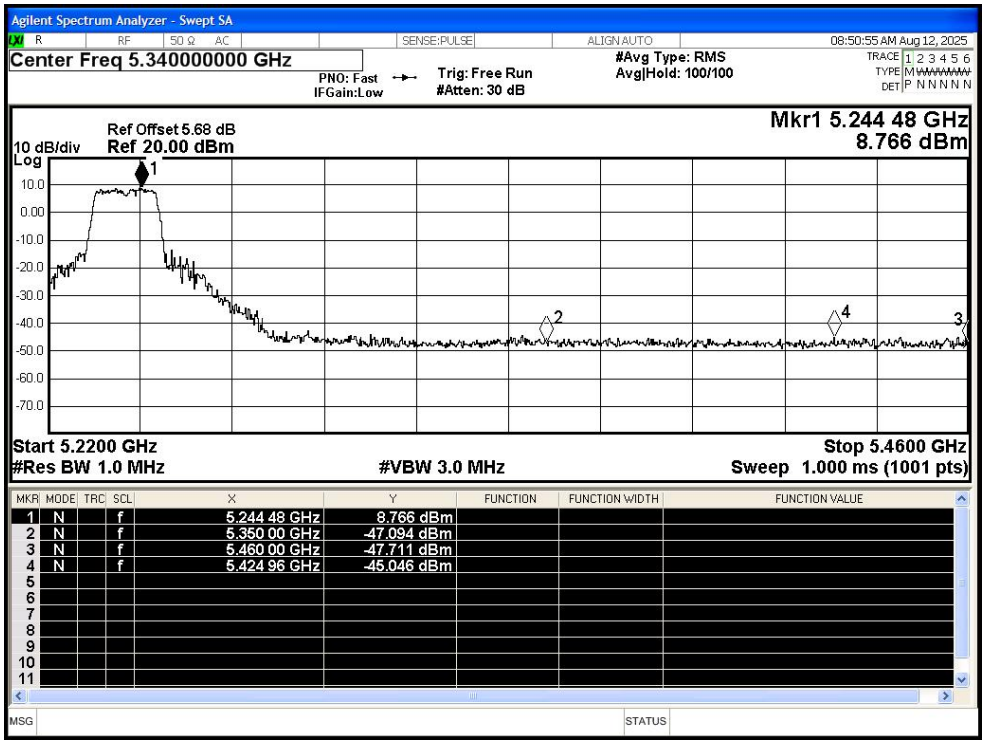
Restrict Band NVNT a 5180MHz Ant1 Peak



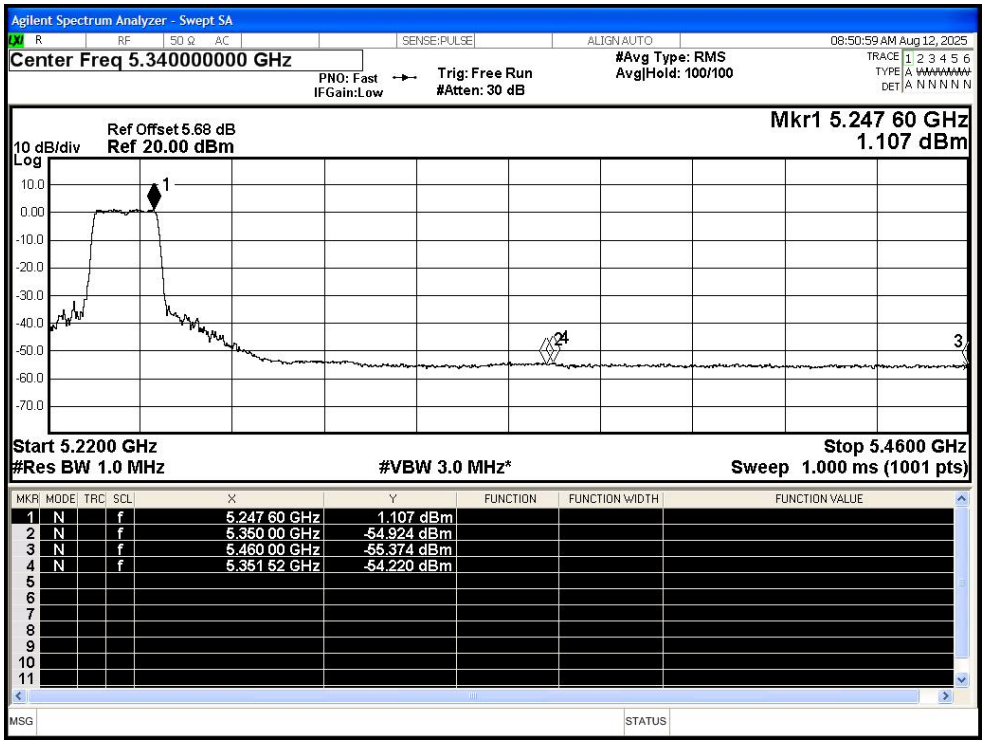
Restrict Band NVNT a 5180MHz Ant1 Average



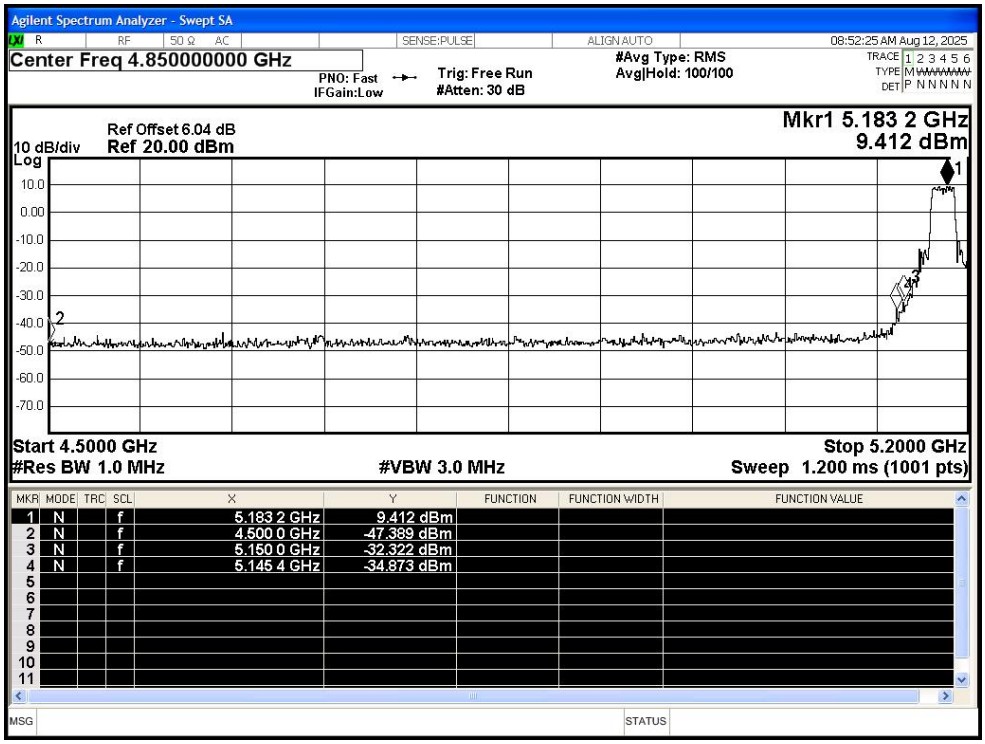
Restrict Band NVNT a 5240MHz Ant1 Peak



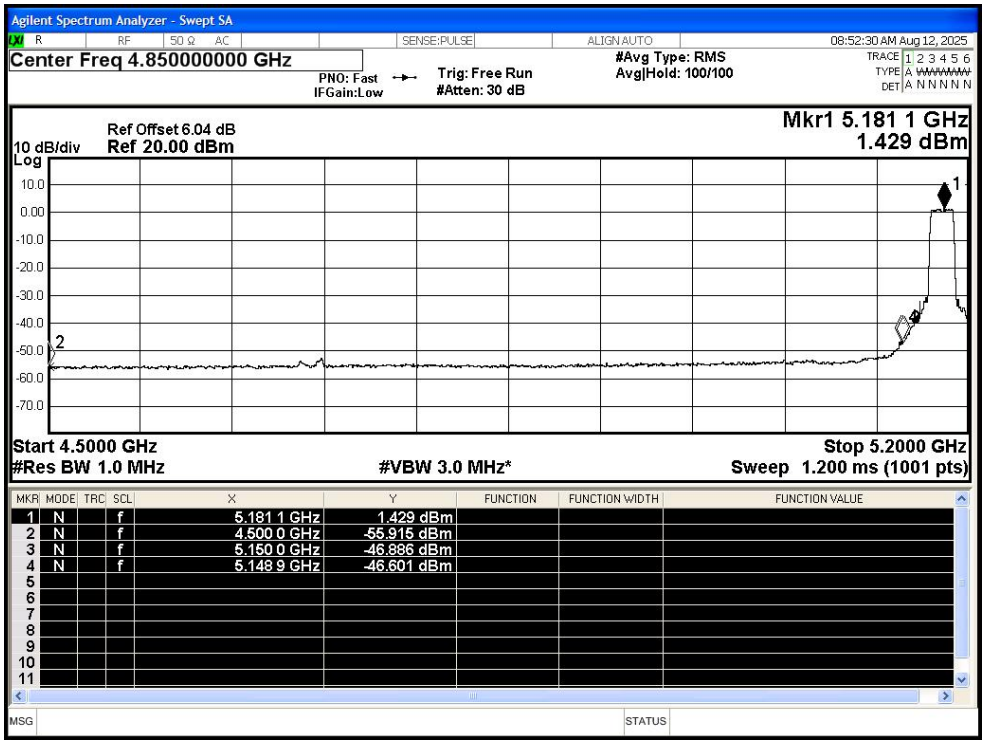
Restrict Band NVNT a 5240MHz Ant1 Average



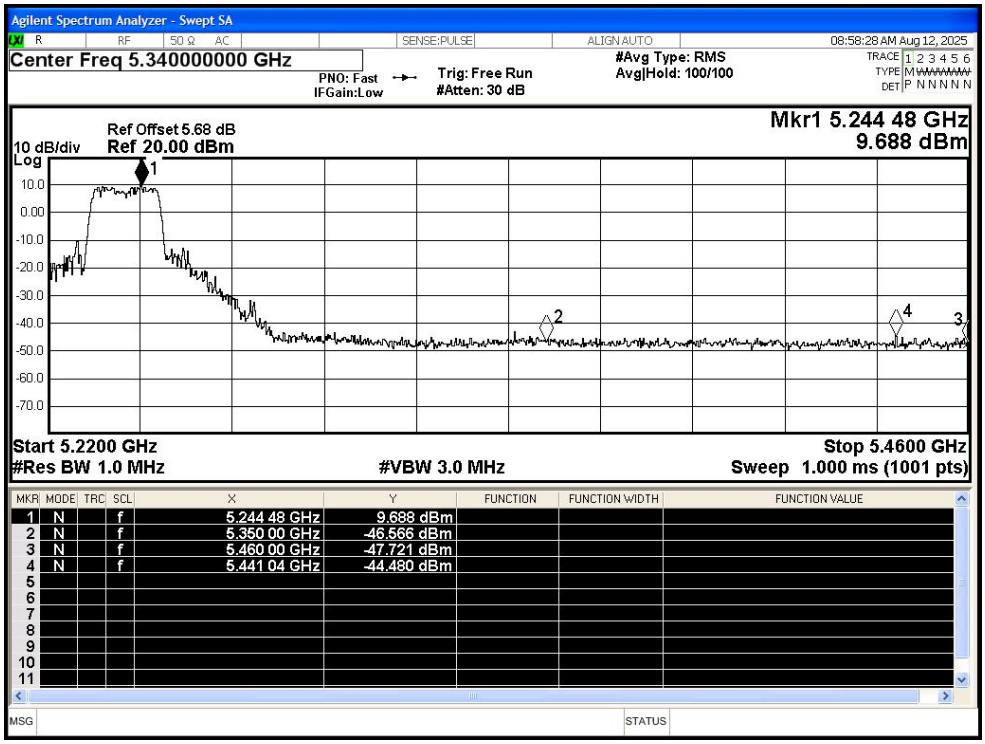
Restrict Band NVNT n20 5180MHz Ant1 Peak



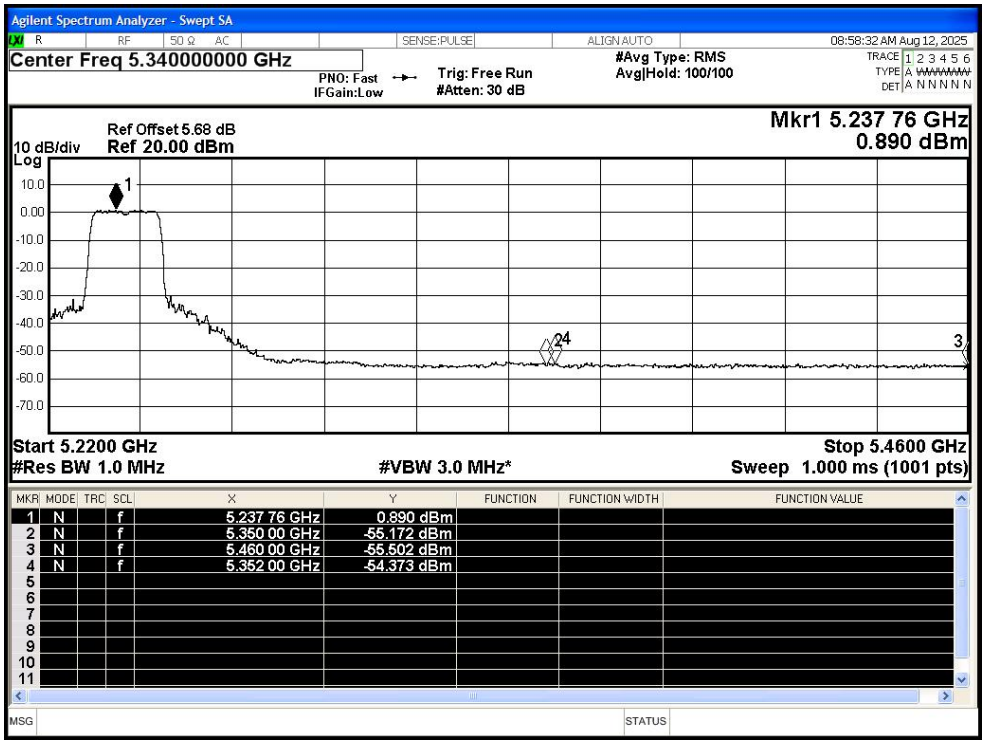
Restrict Band NVNT n20 5180MHz Ant1 Average



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average

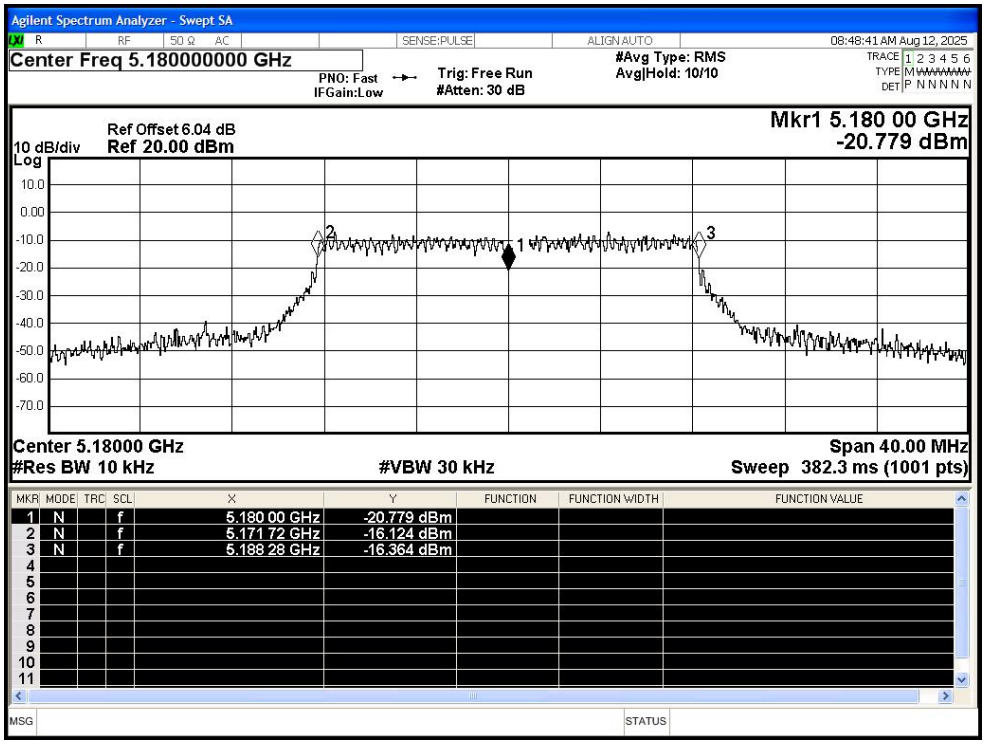


Frequency Stability

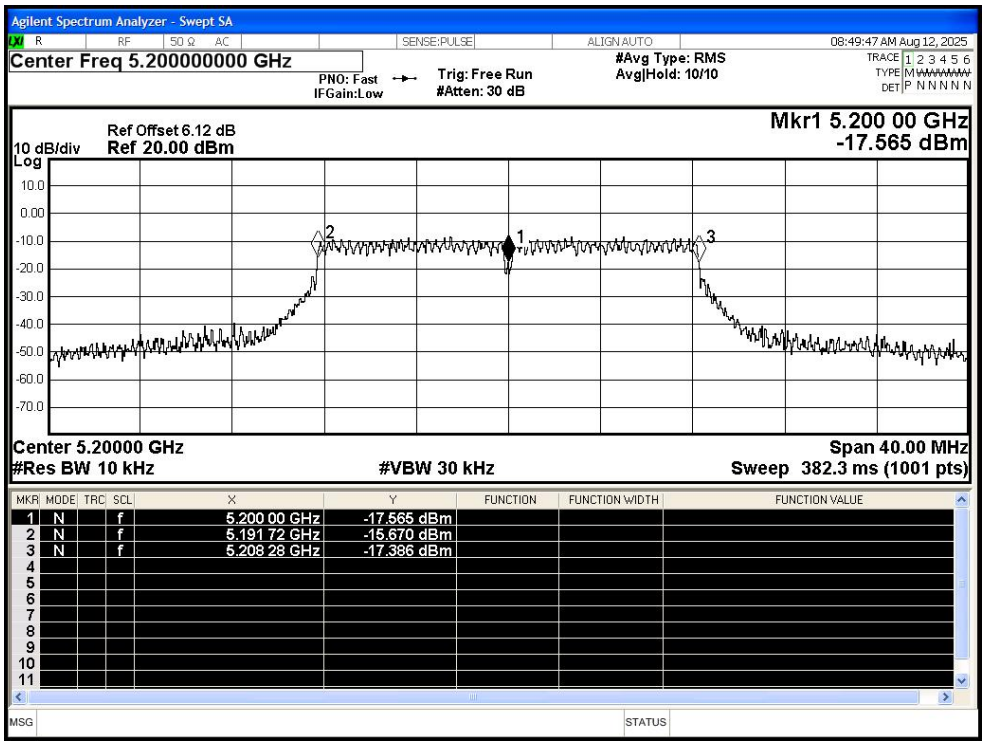
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5200	0	0	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5240	0	0	25	Pass

Test Graphs

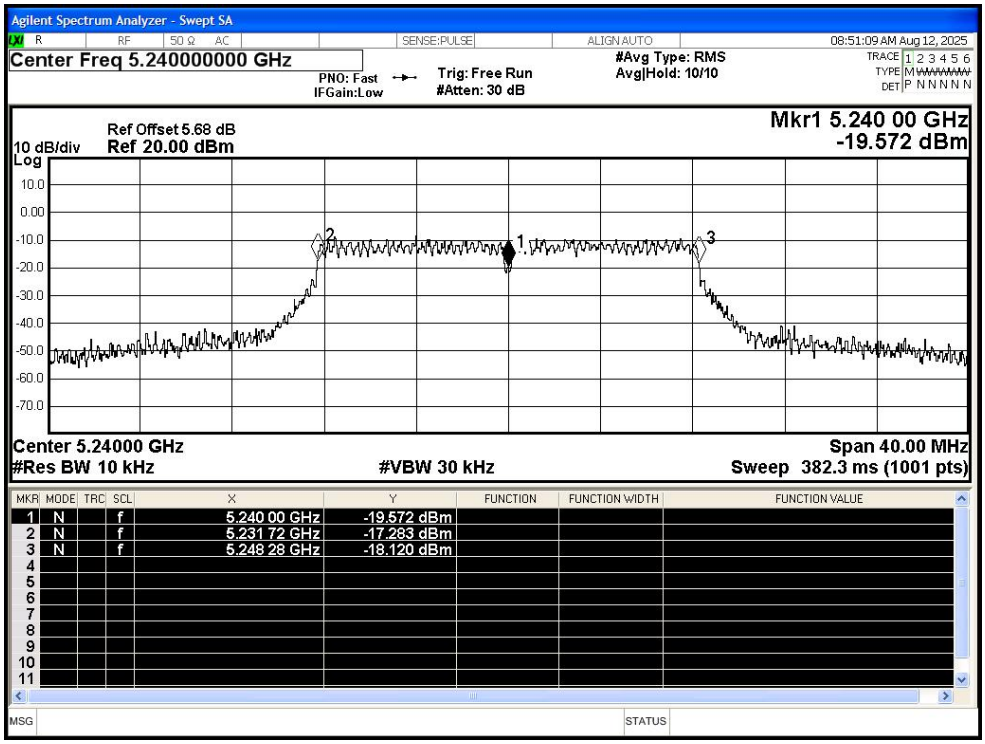
Freq. Stability NVNT a 5180MHz Ant1



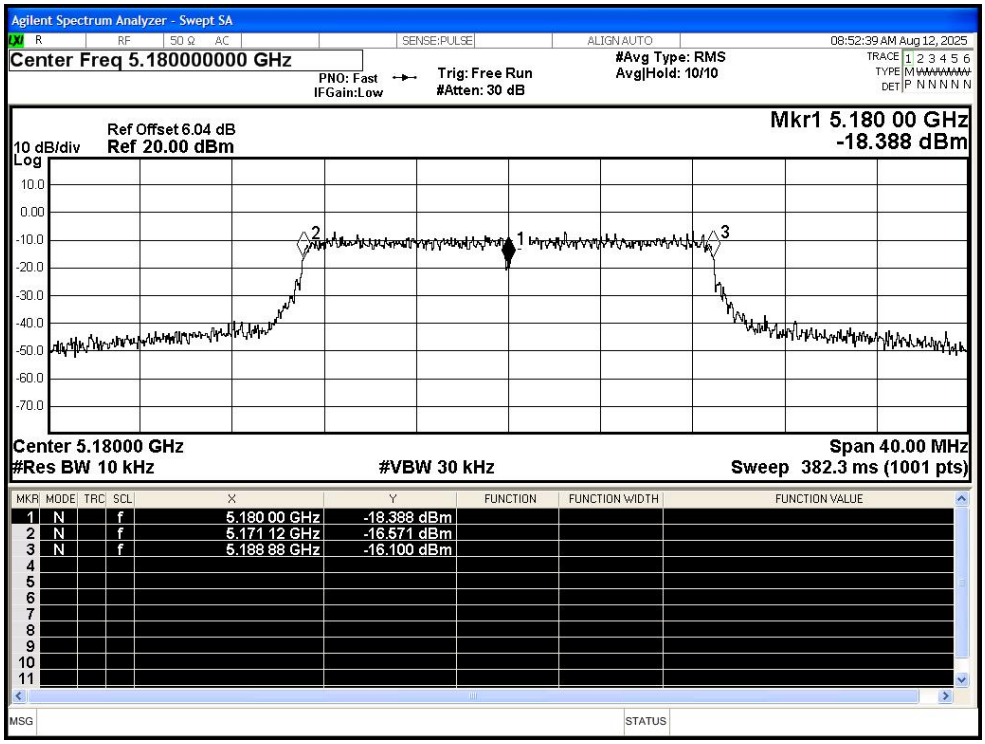
Freq. Stability NVNT a 5200MHz Ant1



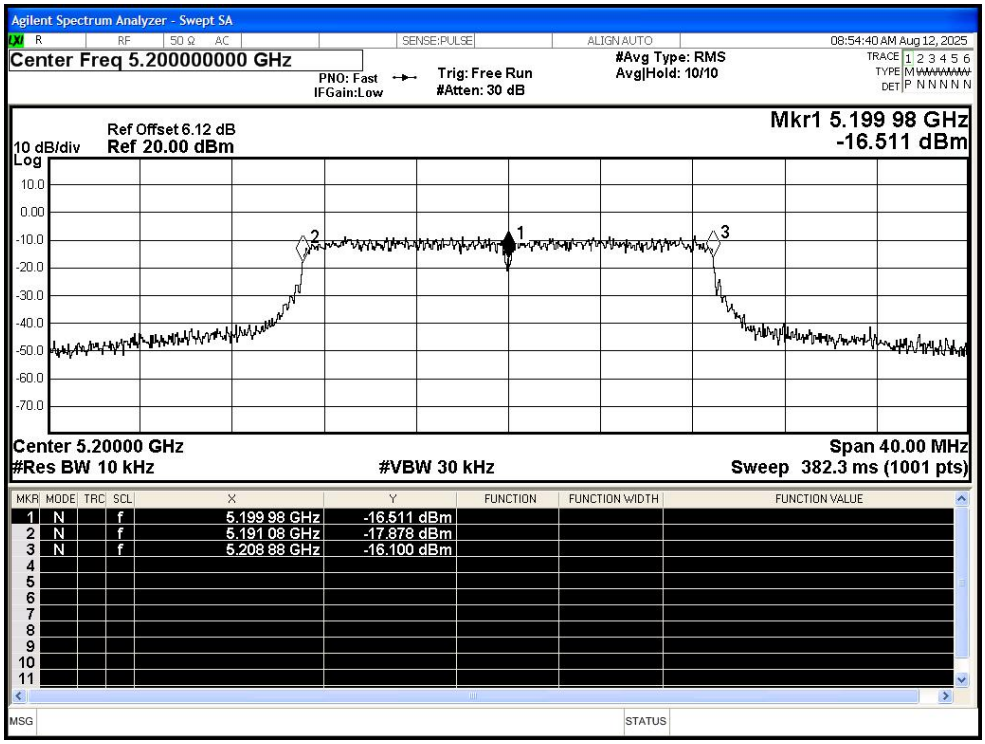
Freq. Stability NVNT a 5240MHz Ant1



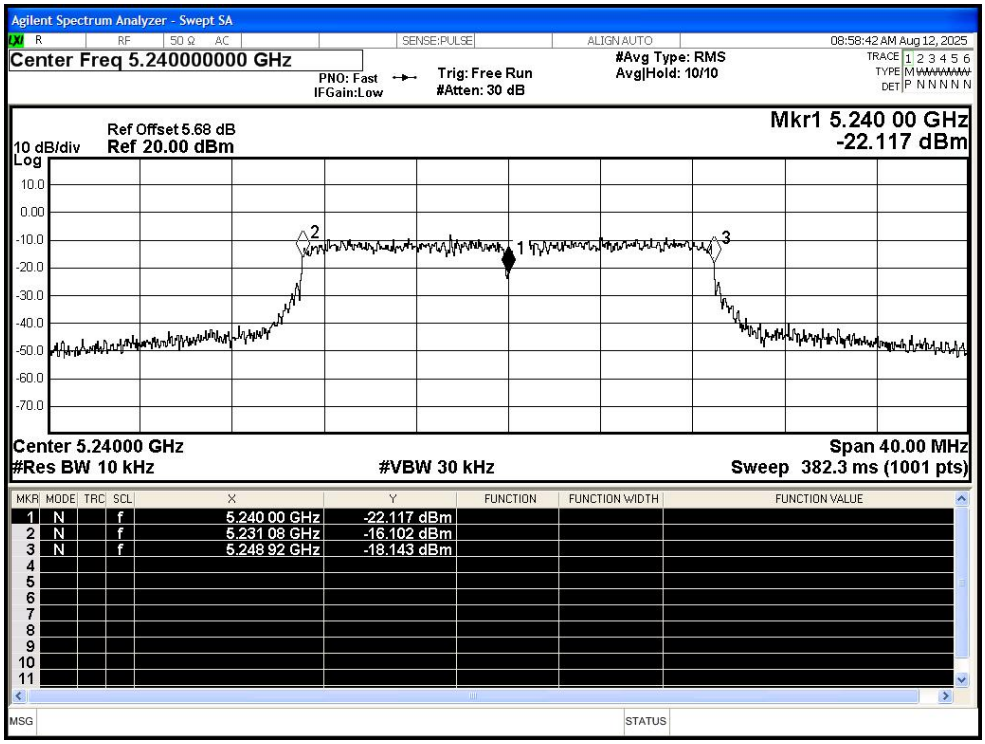
Freq. Stability NVNT n20 5180MHz Ant1



Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1

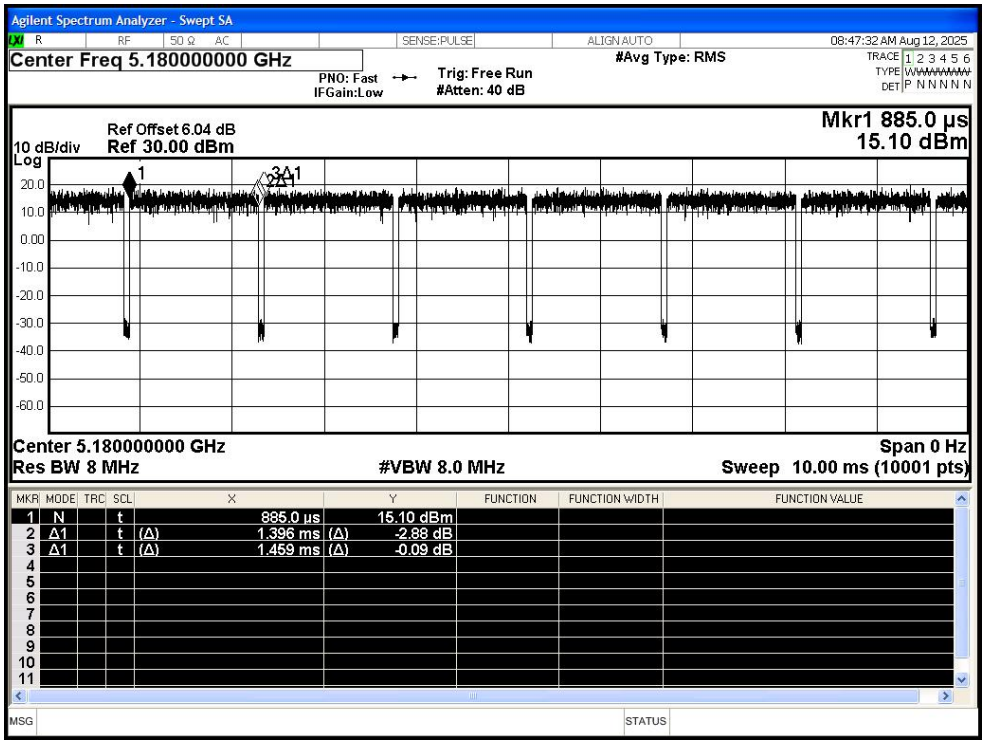


Duty Cycle

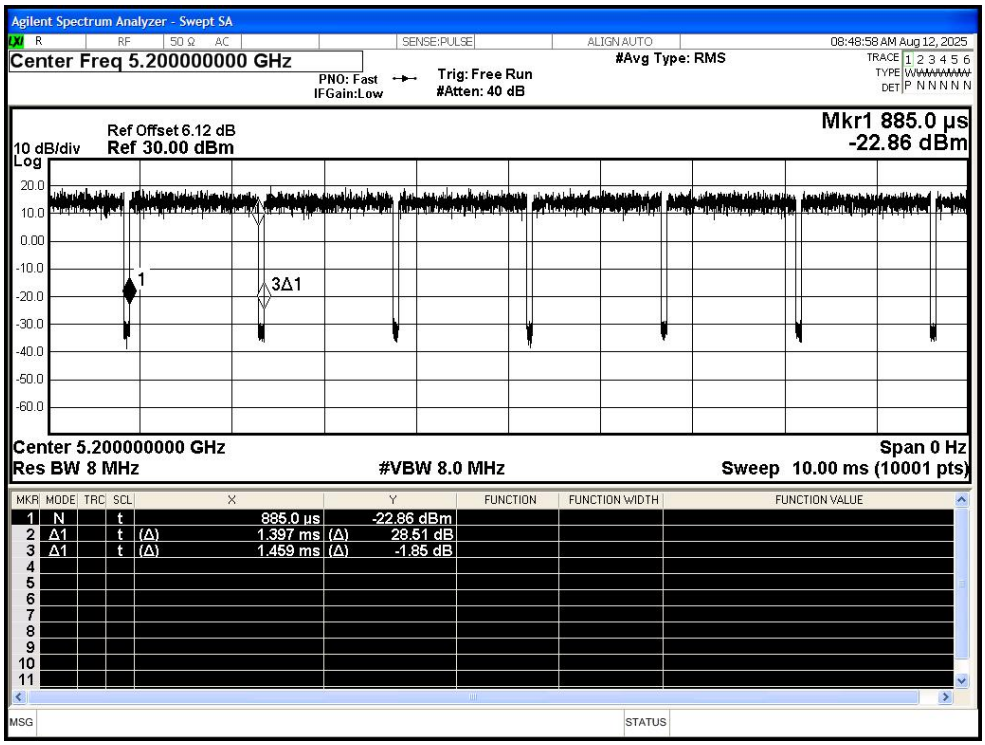
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	95.68	0.19	0.72
NVNT	a	5200	Ant1	95.75	0.19	0.72
NVNT	a	5240	Ant1	95.75	0.19	0.72
NVNT	n20	5180	Ant1	94.94	0.23	0.85
NVNT	n20	5200	Ant1	94.94	0.23	0.85
NVNT	n20	5240	Ant1	94.94	0.23	0.85

Test Graphs

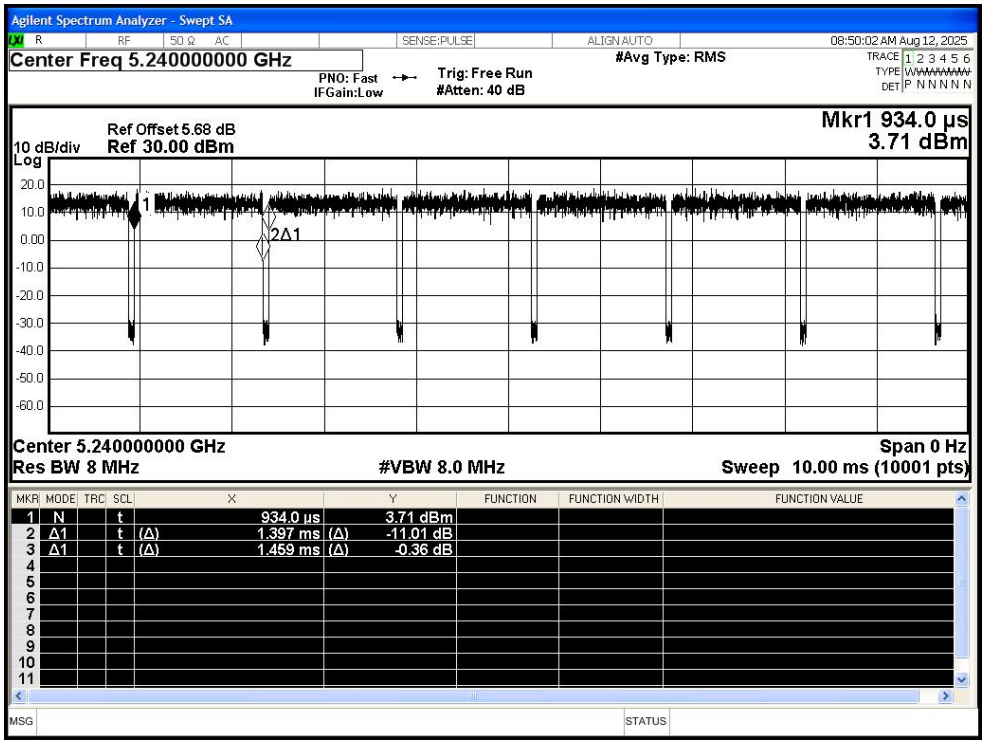
Duty Cycle NVNT a 5180MHz Ant1



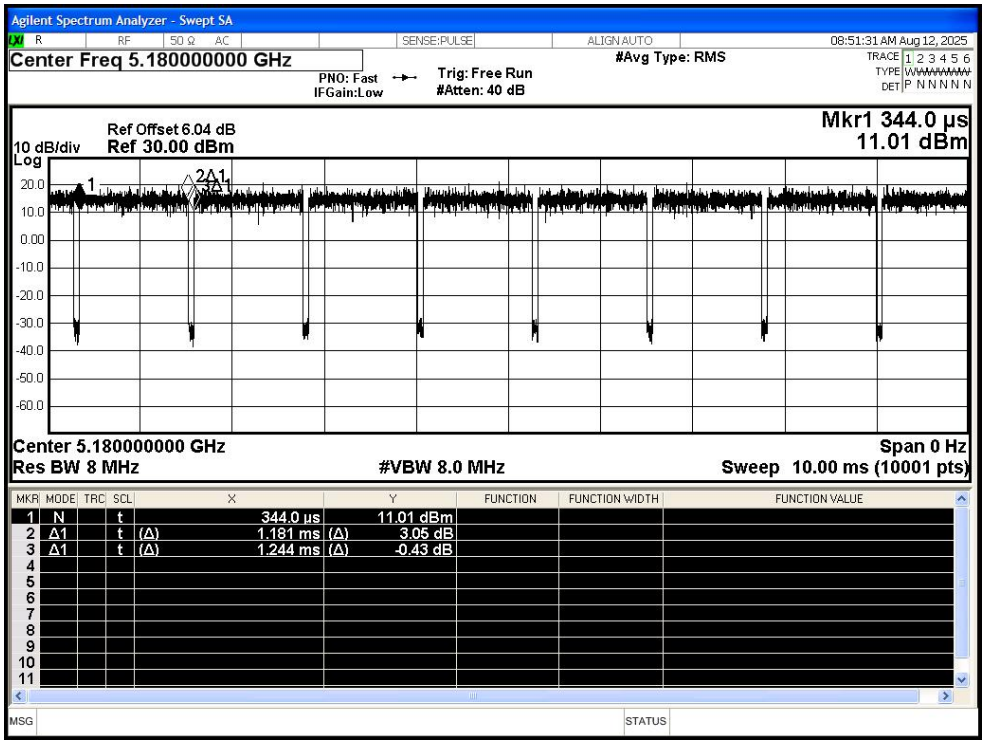
Duty Cycle NVNT a 5200MHz Ant1



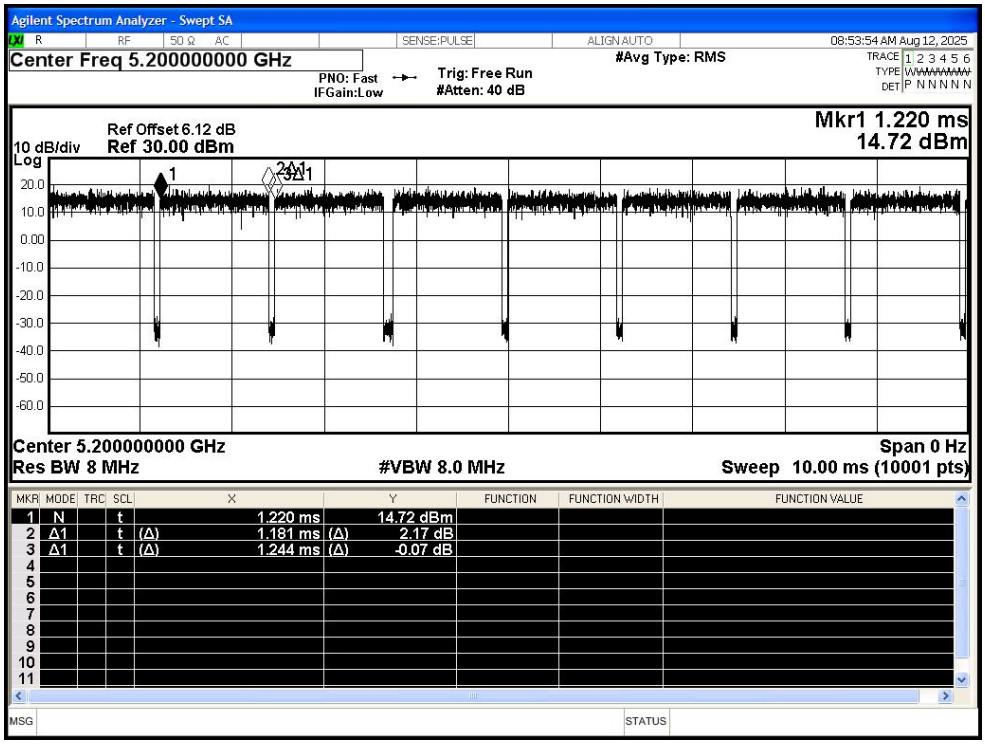
Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1