

FCC Appendix RF Test Data for 5.3GWIFI

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

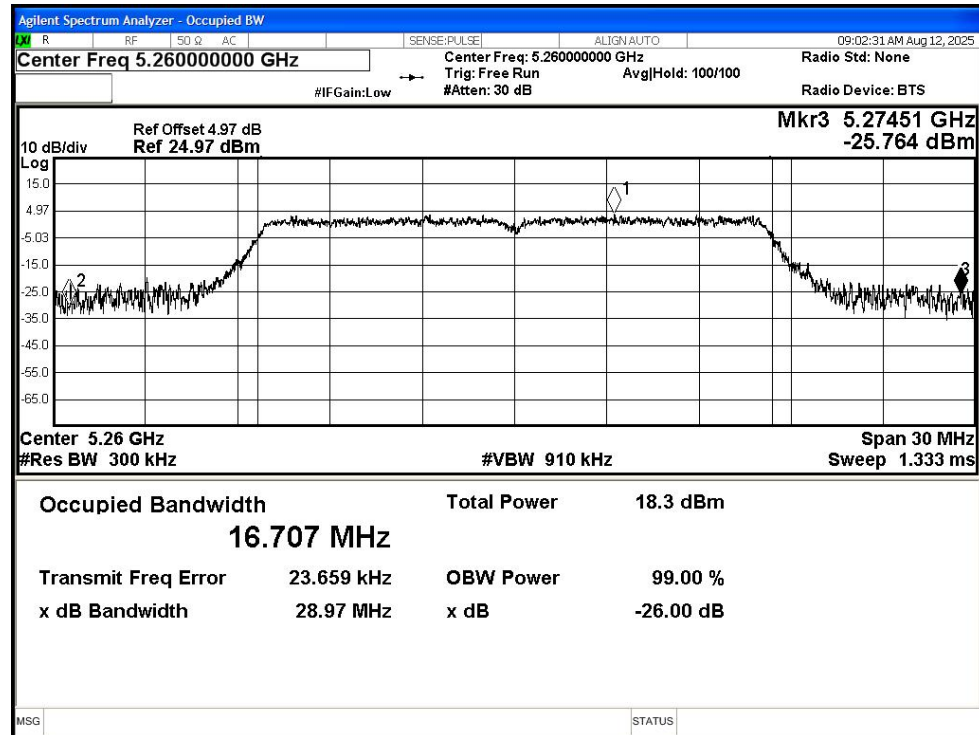
Reviewed By : Eric Wang

-26dB Bandwidth

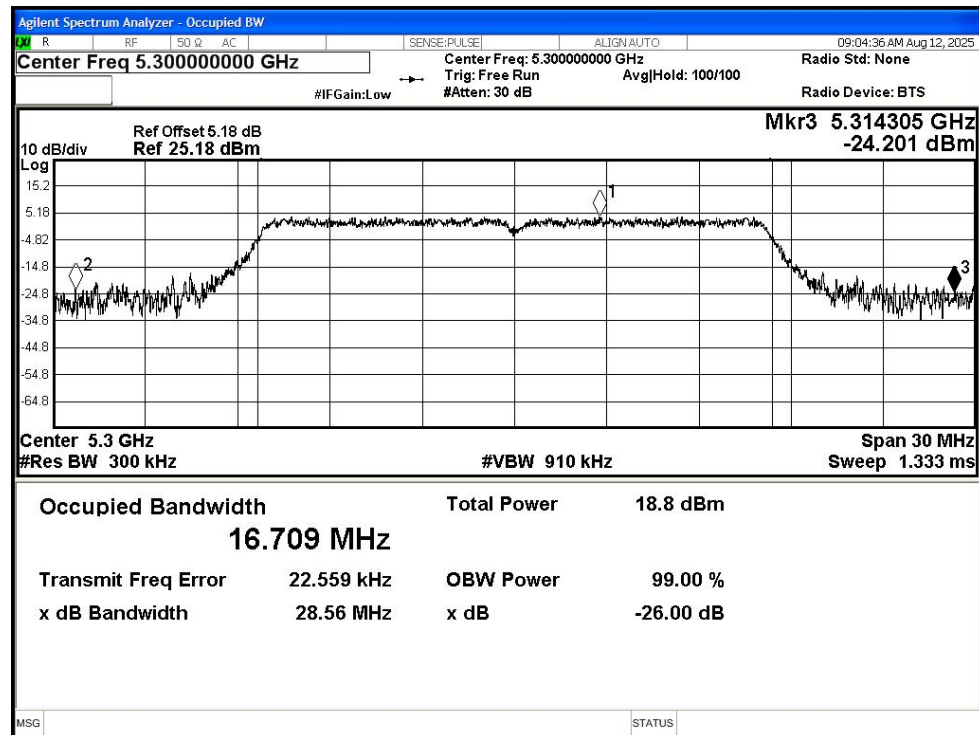
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	28.972	---	Pass
NVNT	a	5300	Ant1	28.565	---	Pass
NVNT	a	5320	Ant1	26.298	---	Pass
NVNT	n20	5260	Ant1	28.818	---	Pass
NVNT	n20	5300	Ant1	28.719	---	Pass
NVNT	n20	5320	Ant1	26.626	---	Pass

Test Graphs

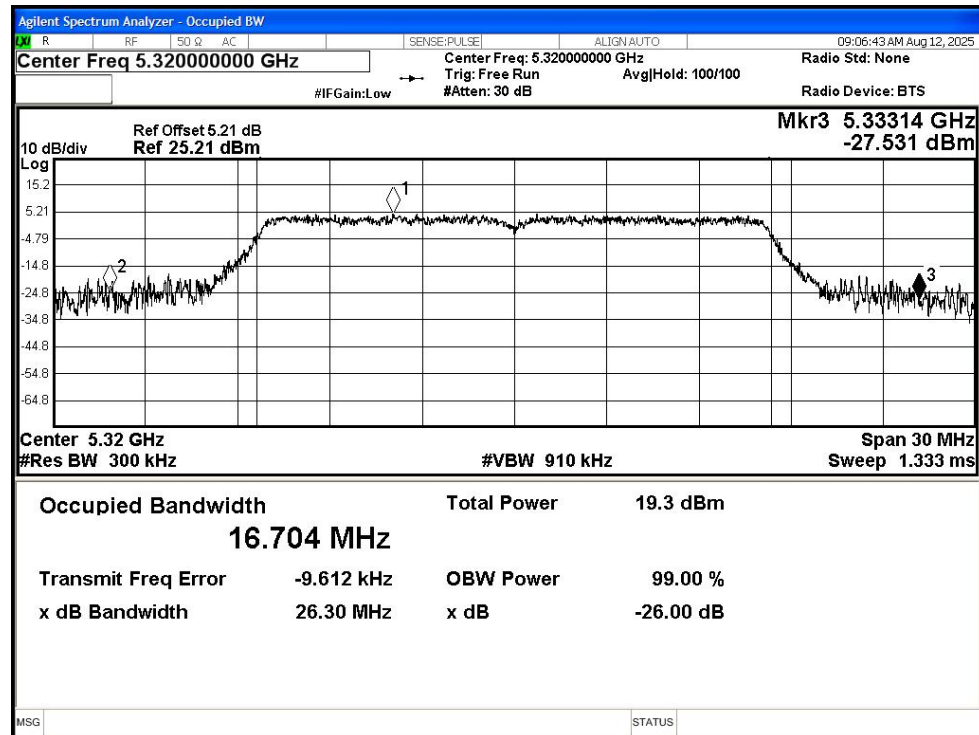
-26dB Bandwidth NVNT a 5260MHz Ant1



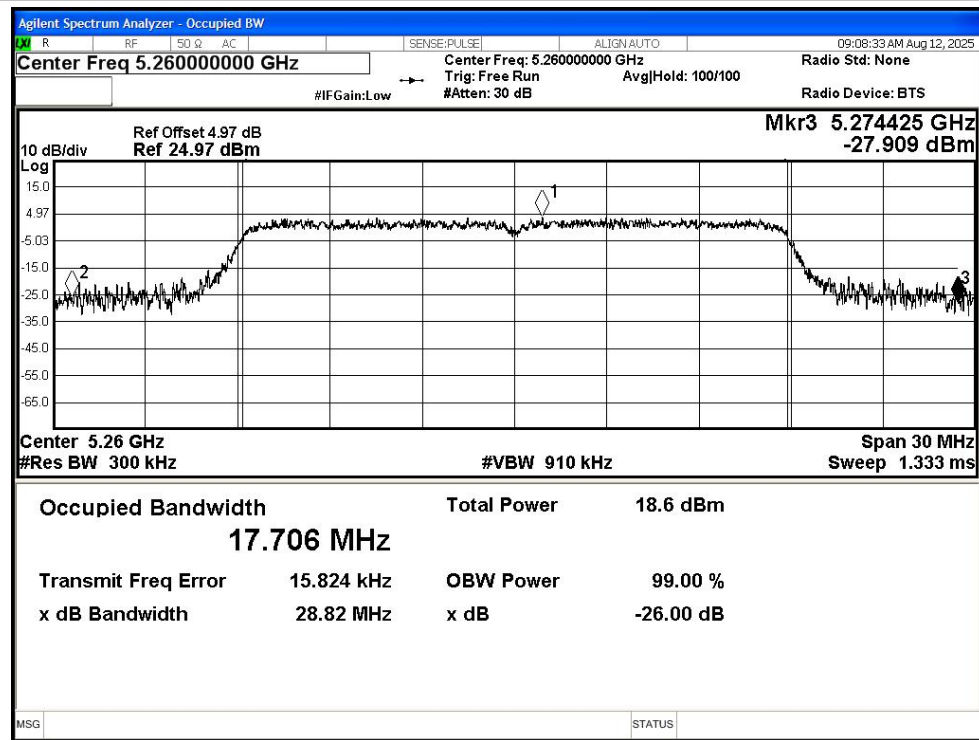
-26dB Bandwidth NVNT a 5300MHz Ant1



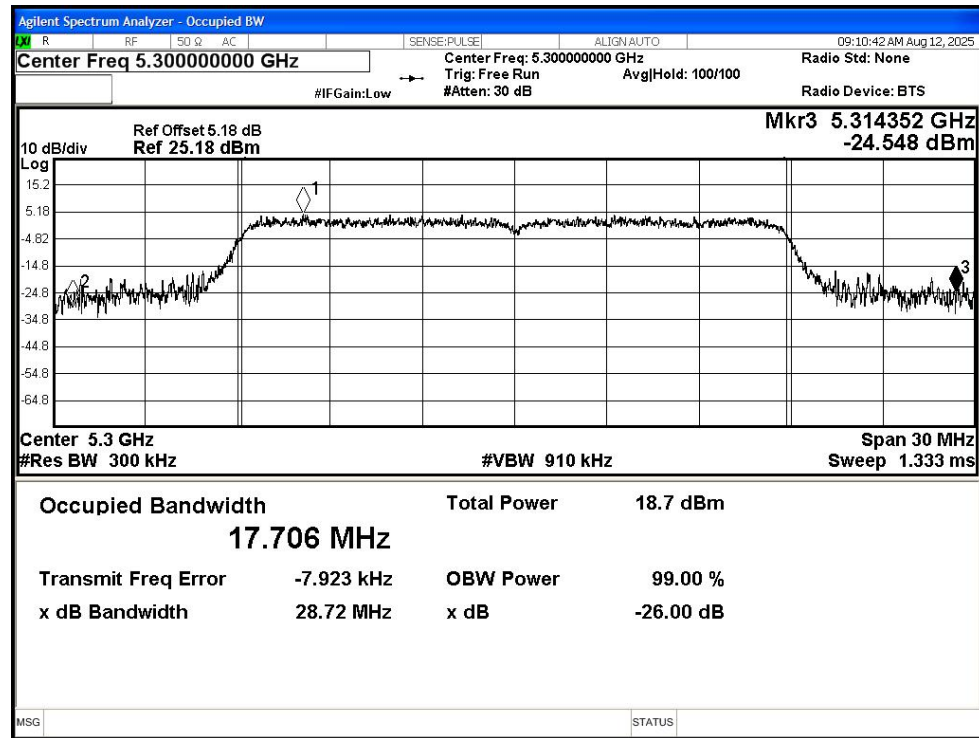
-26dB Bandwidth NVNT a 5320MHz Ant1



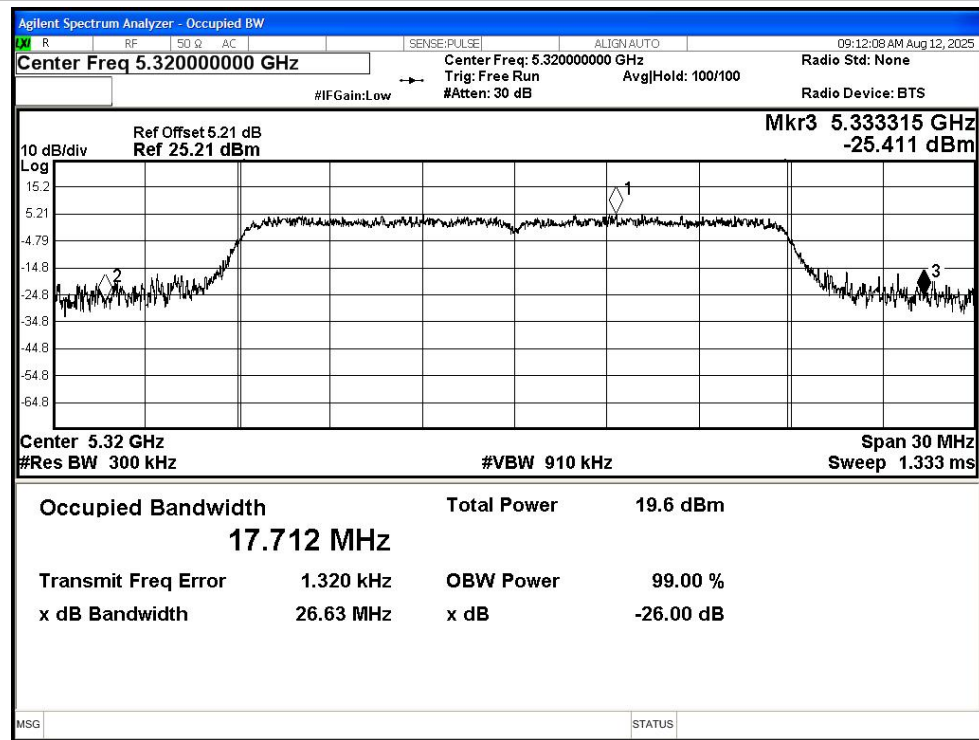
-26dB Bandwidth NVNT n20 5260MHz Ant1



-26dB Bandwidth NVNT n20 5300MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



Maximum Conducted Output Power

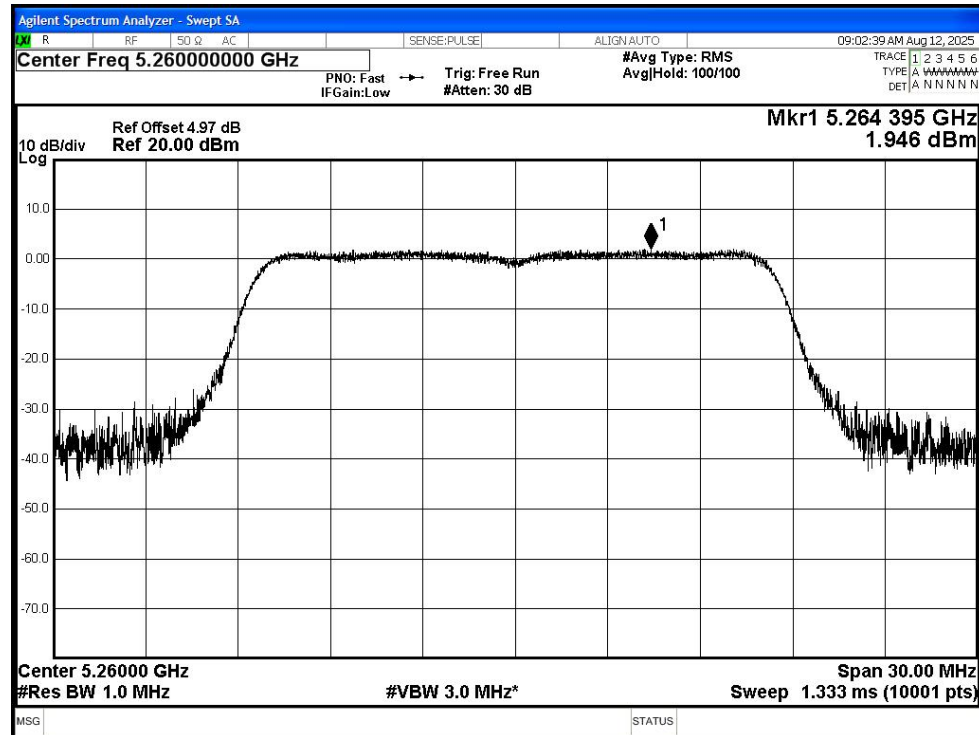
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.65	0.19	12.84	24	Pass
NVNT	a	5300	Ant1	12.84	0.19	13.03	24	Pass
NVNT	a	5320	Ant1	13.23	0.19	13.42	24	Pass
NVNT	n20	5260	Ant1	12.84	0.23	13.07	24	Pass
NVNT	n20	5300	Ant1	13.04	0.23	13.27	24	Pass
NVNT	n20	5320	Ant1	14	0.23	14.23	24	Pass

Maximum Power Spectral Density Level

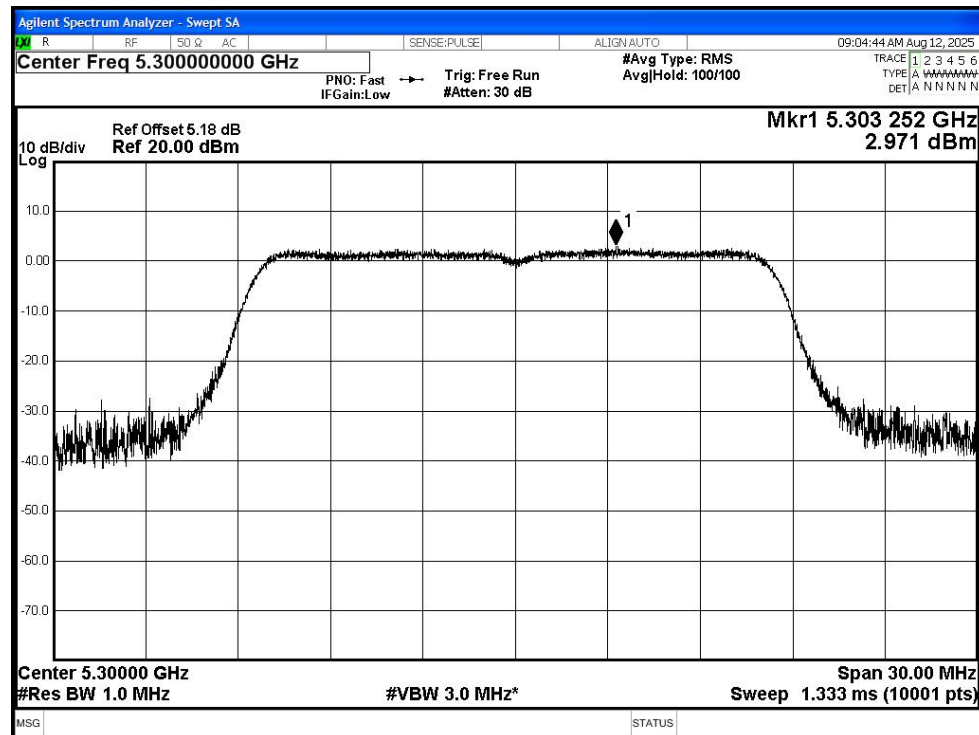
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	1.95	0.19	2.14	11	Pass
NVNT	a	5300	Ant1	2.97	0.19	3.16	11	Pass
NVNT	a	5320	Ant1	2.97	0.19	3.16	11	Pass
NVNT	n20	5260	Ant1	2.37	0.23	2.6	11	Pass
NVNT	n20	5300	Ant1	2.7	0.23	2.93	11	Pass
NVNT	n20	5320	Ant1	3.27	0.23	3.5	11	Pass

Test Graphs

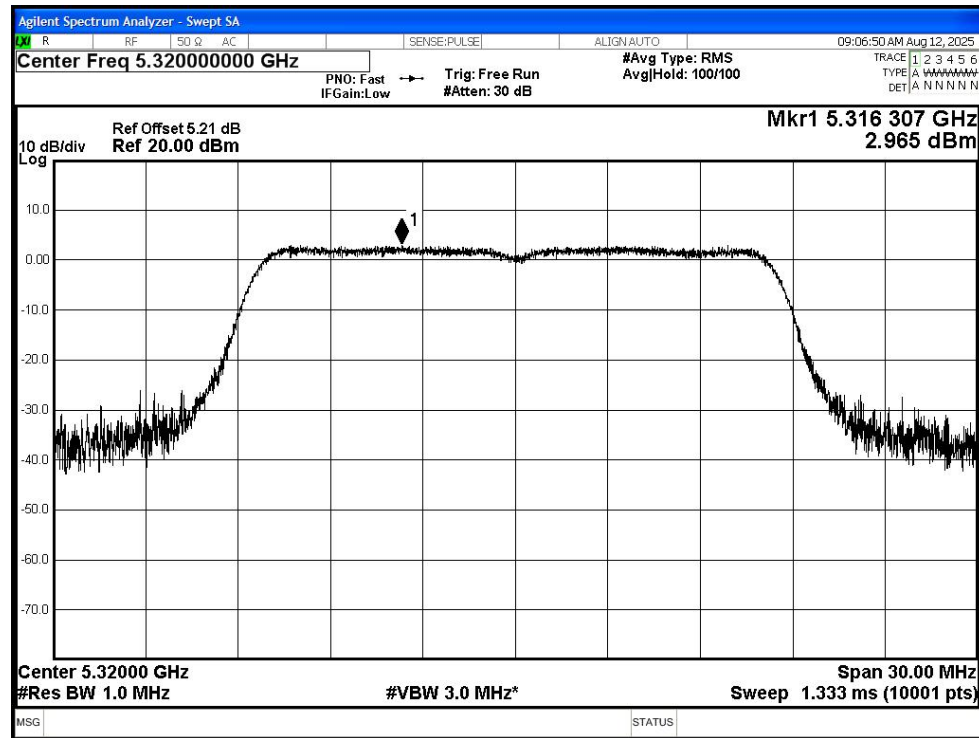
PSD NVNT a 5260MHz Ant1



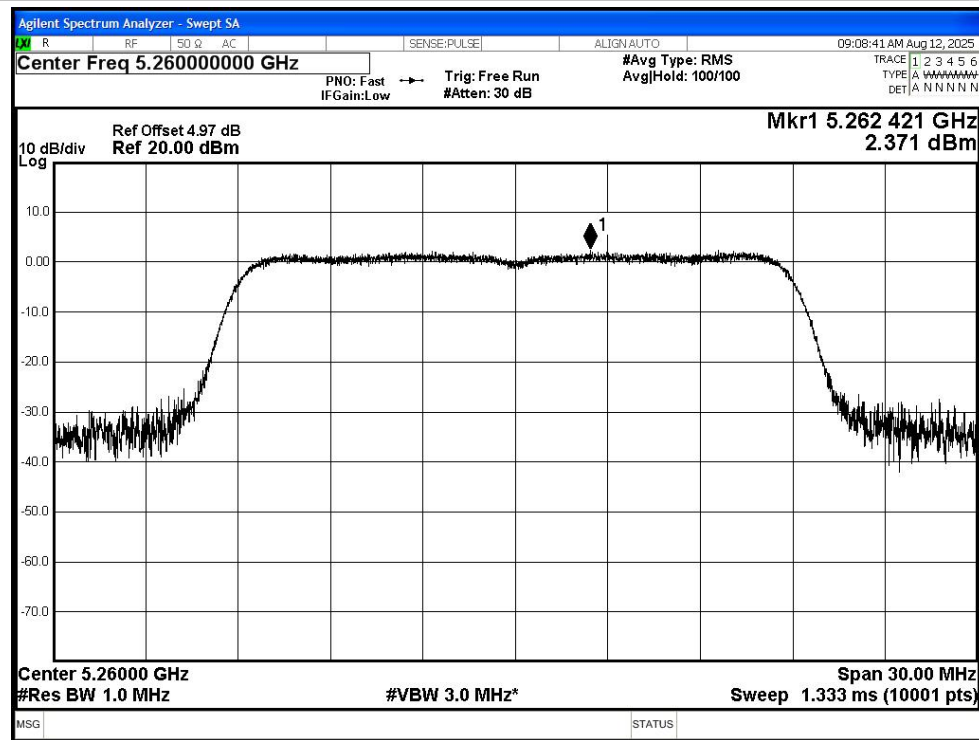
PSD NVNT a 5300MHz Ant1



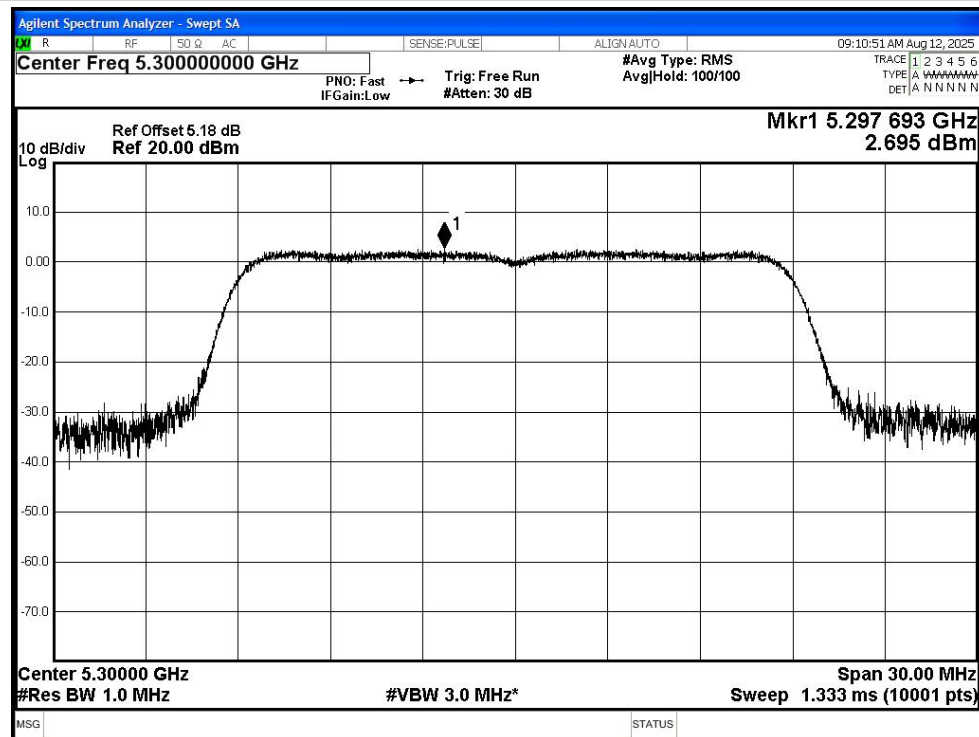
PSD NVNT a 5320MHz Ant1



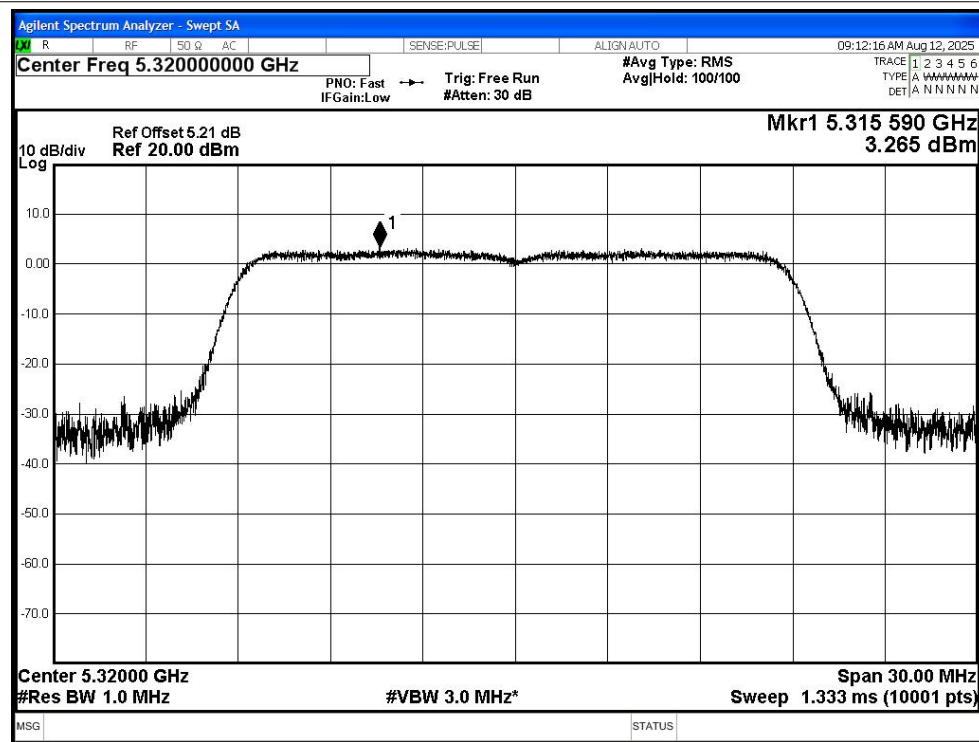
PSD NVNT n20 5260MHz Ant1



PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1

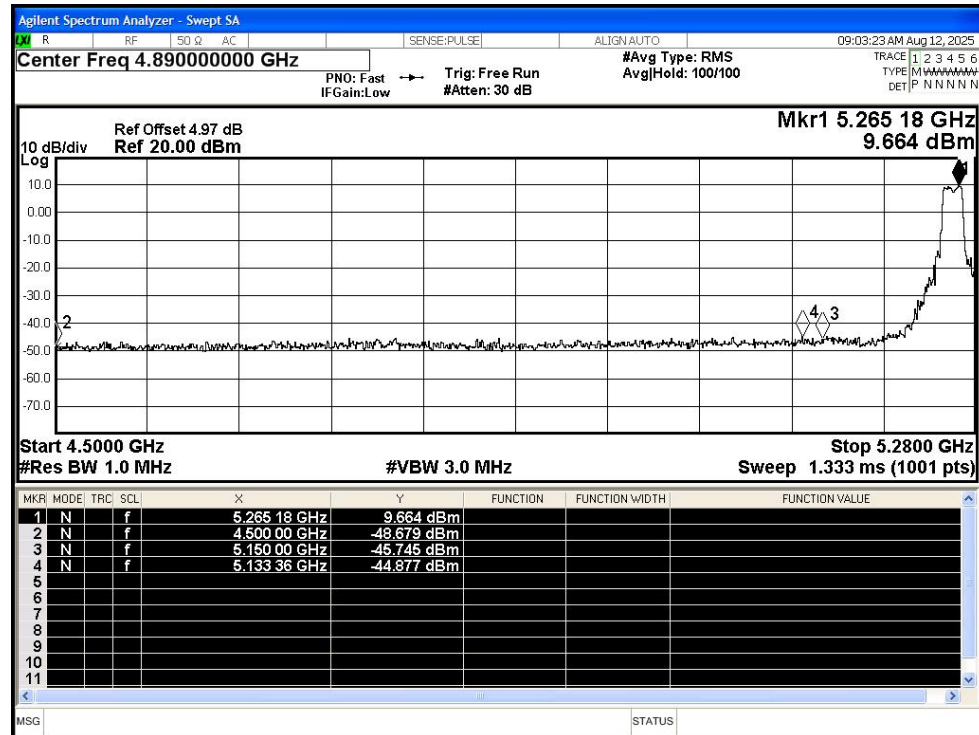


Restrict Band

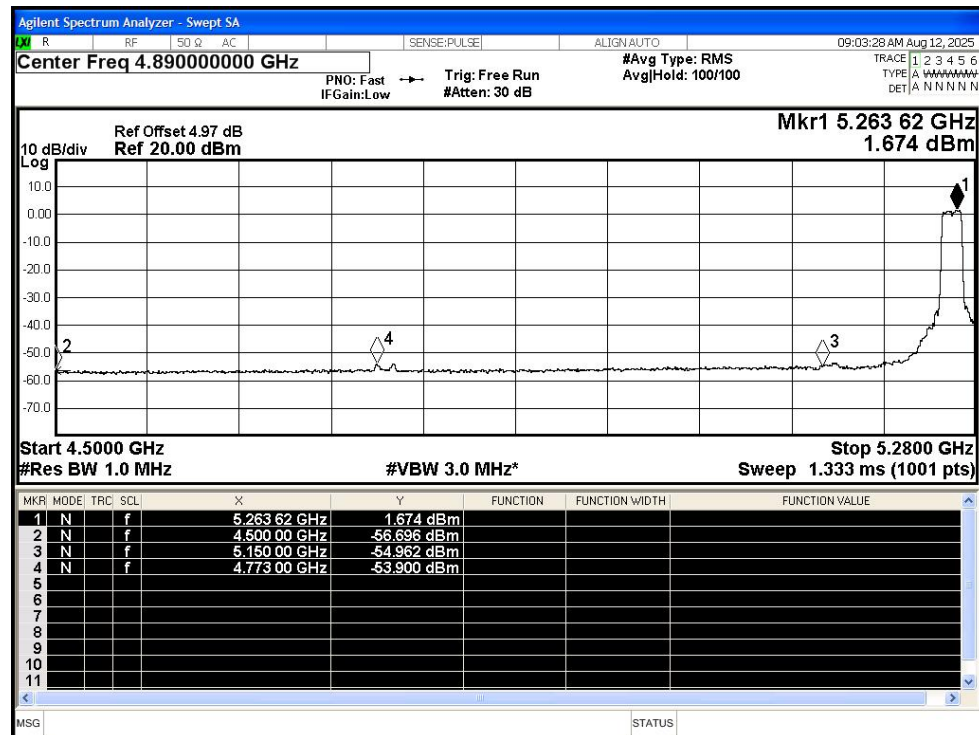
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-48.68	5.26	-	51.81	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-56.7	5.26	0.19	43.98	Average	54	Pass
NVNT	a	5260	Ant1	5133.36	-44.88	5.26	-	55.61	Peak	68.2	Pass
NVNT	a	5260	Ant1	4773	-53.9	5.26	0.19	46.78	Average	54	Pass
NVNT	a	5260	Ant1	5150	-45.75	5.26	-	54.74	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-54.96	5.26	0.19	45.72	Average	54	Pass
NVNT	a	5320	Ant1	5350	-35.79	5.26	-	64.70	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-48.29	5.26	0.19	52.39	Average	54	Pass
NVNT	a	5320	Ant1	5350.2	-35.07	5.26	-	65.42	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350.8	-47.97	5.26	0.19	52.71	Average	54	Pass
NVNT	a	5320	Ant1	5460	-48.94	5.26	-	51.55	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-56.06	5.26	0.19	44.62	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-48.86	5.26	-	51.63	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-56.58	5.26	0.23	44.14	Average	54	Pass
NVNT	n20	5260	Ant1	5143.5	-44.81	5.26	-	55.68	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4787.82	-53.45	5.26	0.23	47.27	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-45.11	5.26	-	55.38	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-54.3	5.26	0.23	46.42	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-39.17	5.26	-	61.32	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-51.99	5.26	0.23	48.73	Average	54	Pass
NVNT	n20	5320	Ant1	5351.2	-37.91	5.26	-	62.58	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350.4	-51.62	5.26	0.23	49.10	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-47.69	5.26	-	52.80	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-56.19	5.26	0.23	44.53	Average	54	Pass

Test Graphs

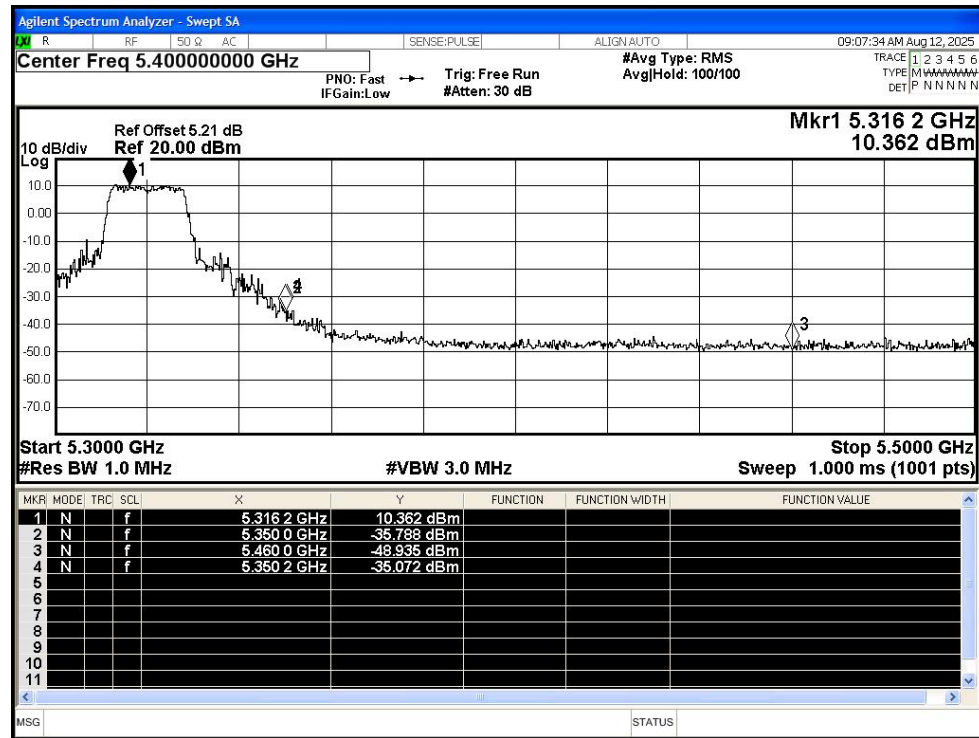
Restrict Band NVNT a 5260MHz Ant1 Peak



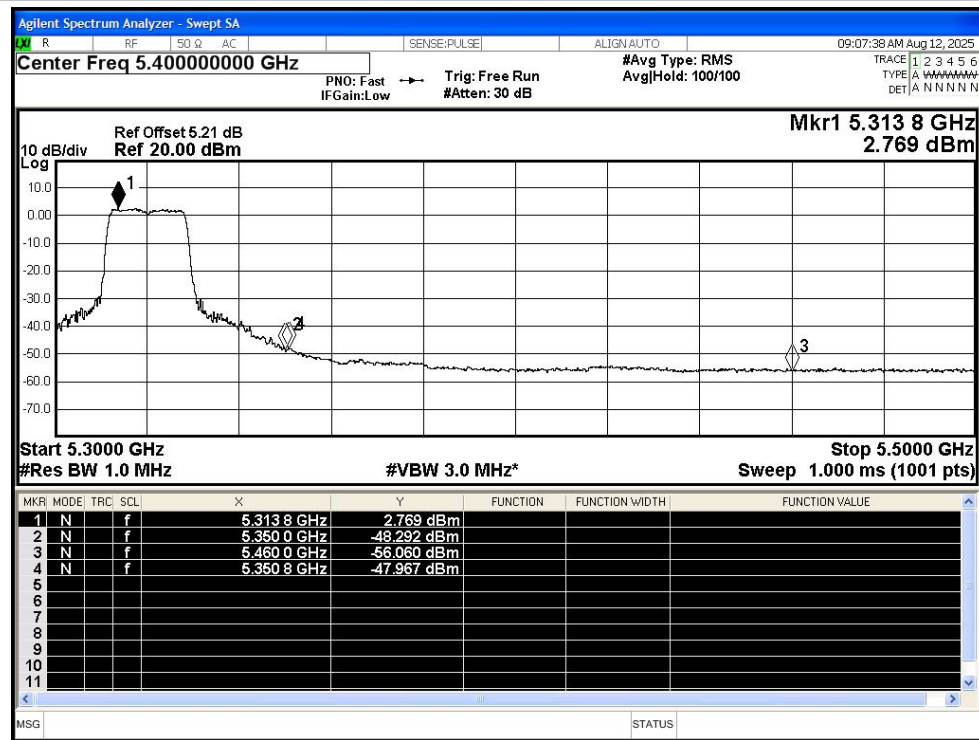
Restrict Band NVNT a 5260MHz Ant1 Average



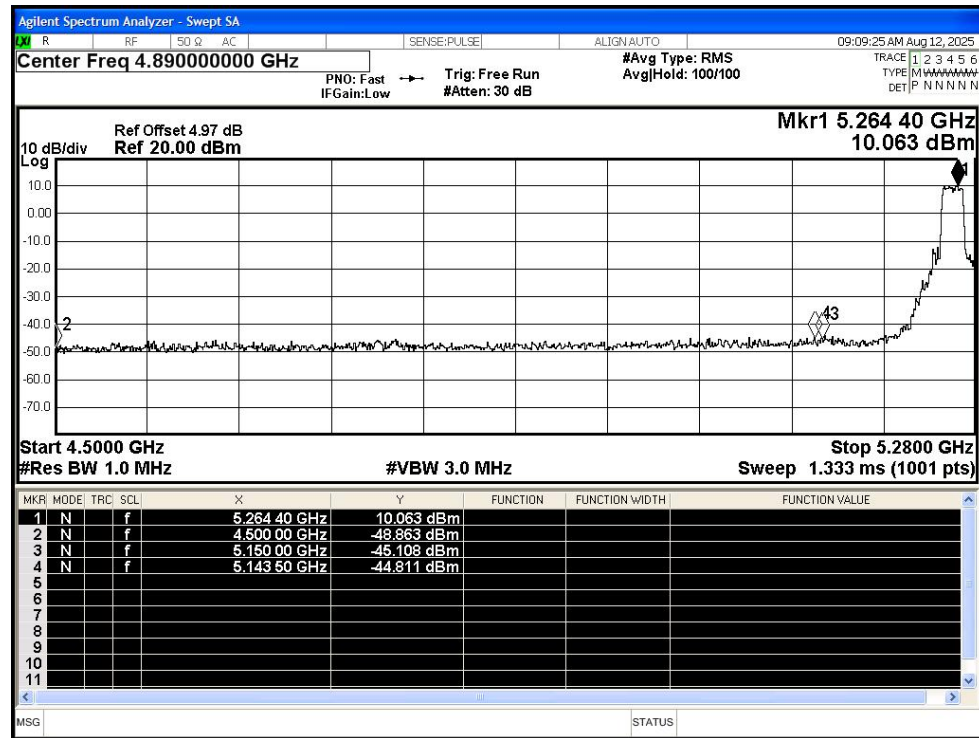
Restrict Band NVNT a 5320MHz Ant1 Peak



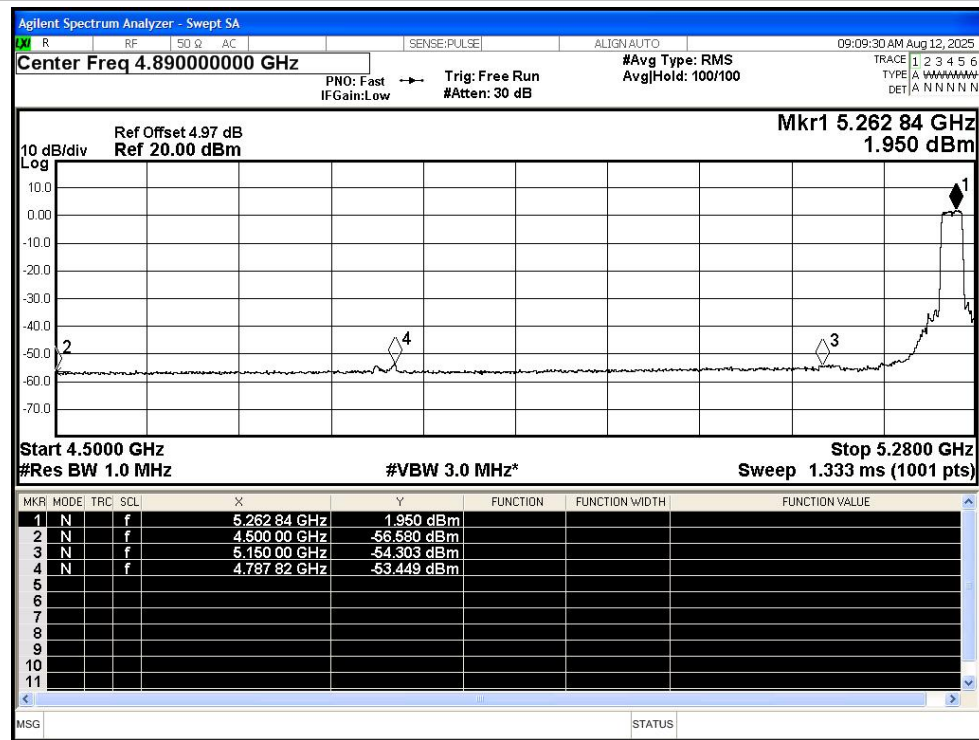
Restrict Band NVNT a 5320MHz Ant1 Average



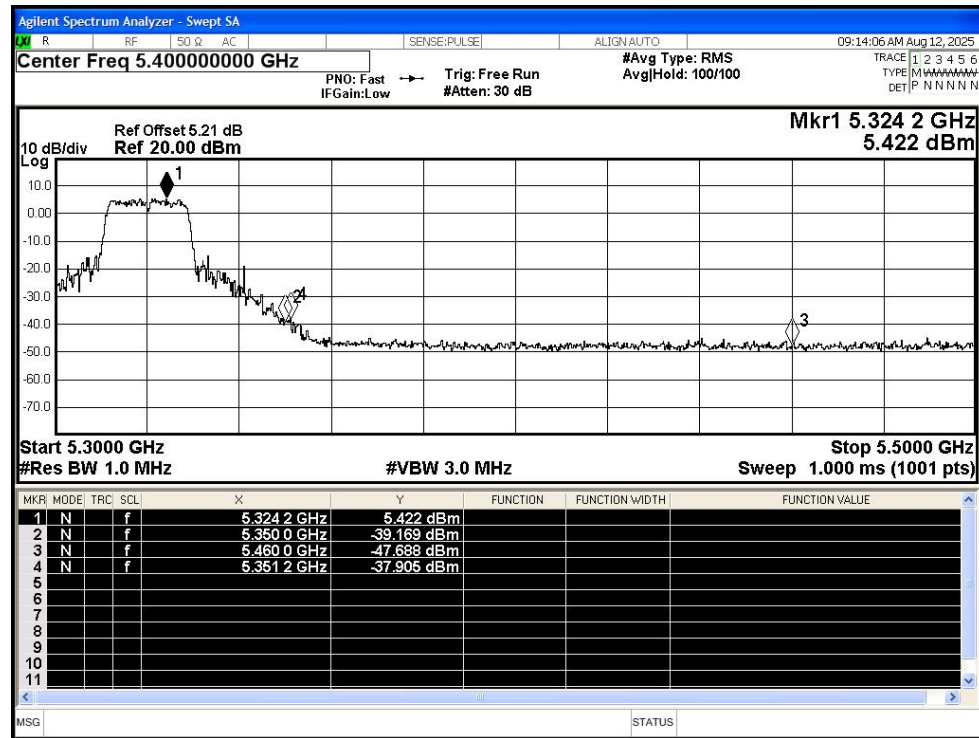
Restrict Band NVNT n20 5260MHz Ant1 Peak



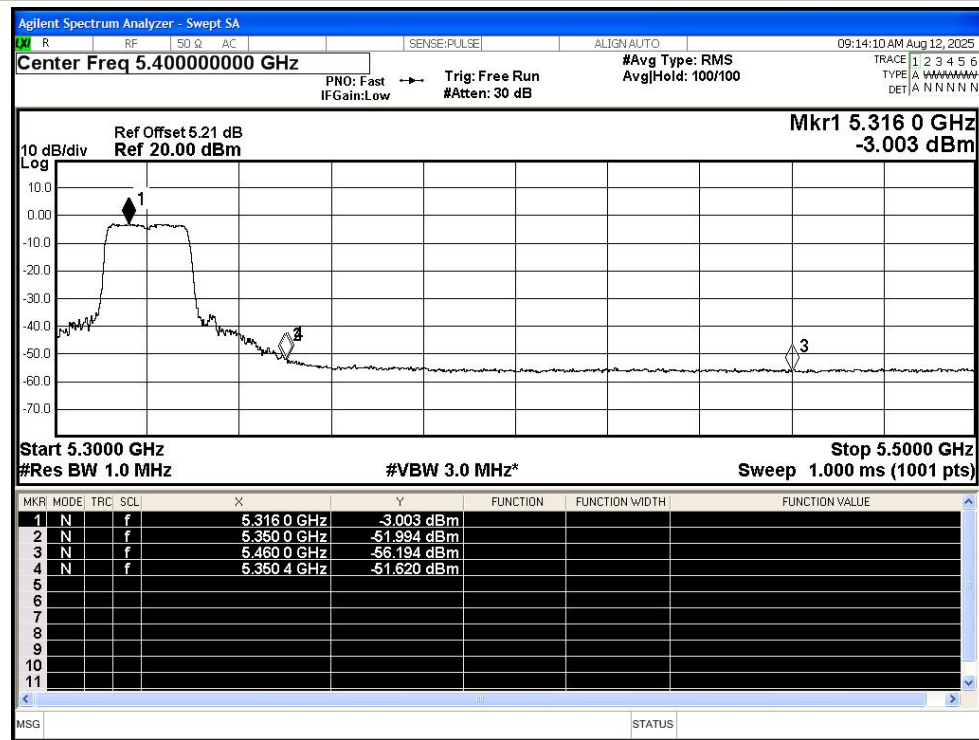
Restrict Band NVNT n20 5260MHz Ant1 Average



Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average

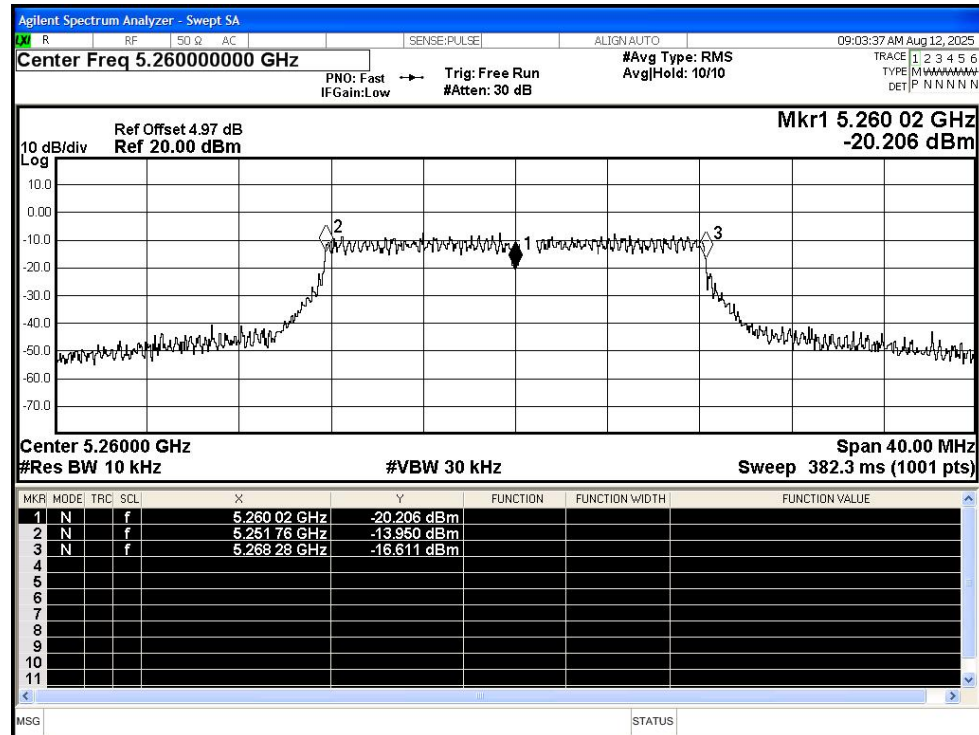


Frequency Stability

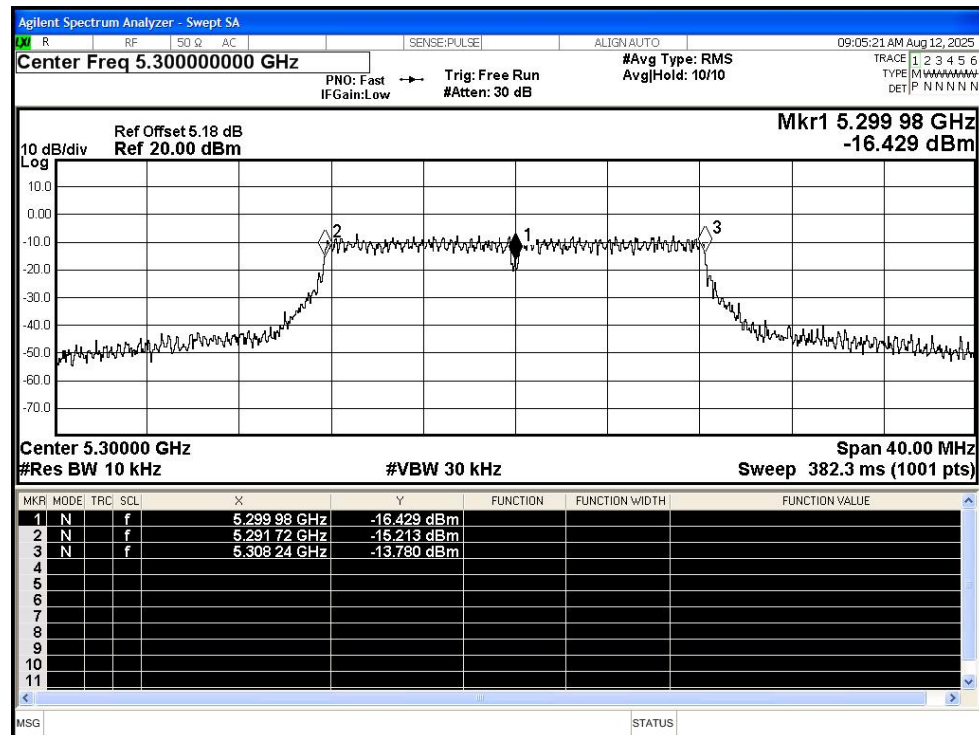
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5260	Ant1	5260.02	20000	3.8	25	Pass
NVNT	a	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	a	5320	Ant1	5320	0	0	25	Pass
NVNT	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	n20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	n20	5320	Ant1	5320	0	0	25	Pass

Test Graphs

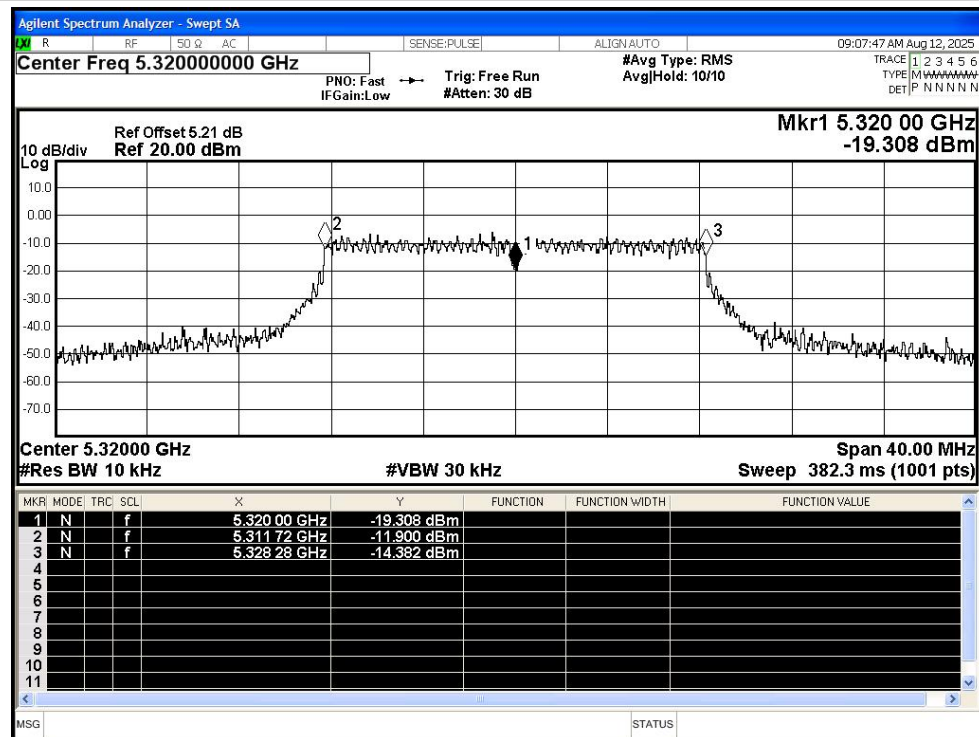
Freq. Stability NVNT a 5260MHz Ant1



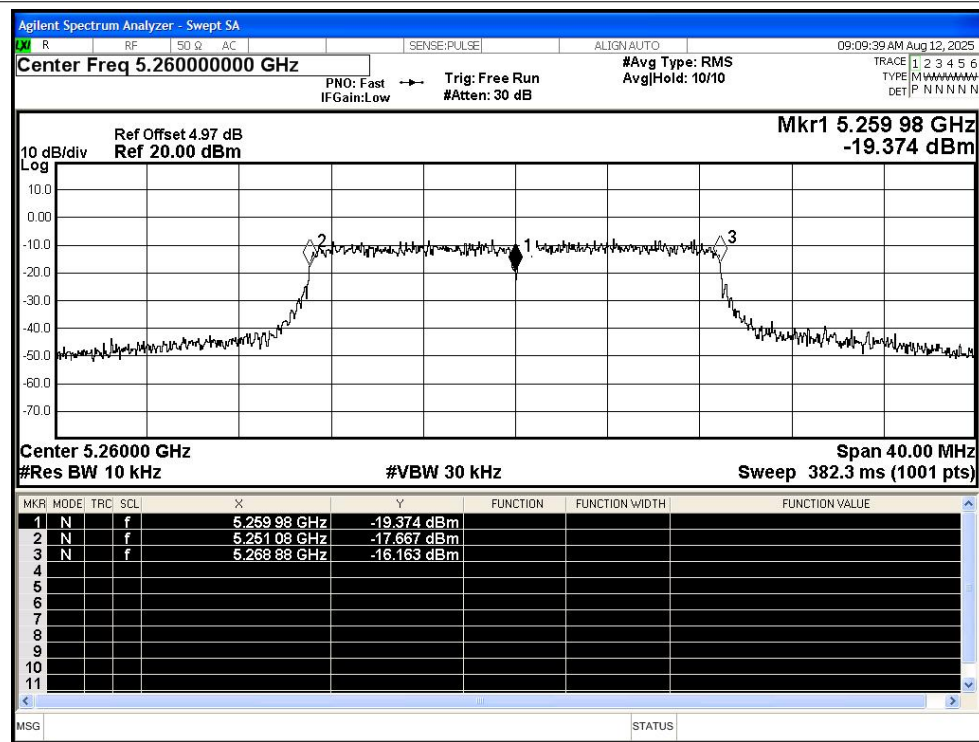
Freq. Stability NVNT a 5300MHz Ant1



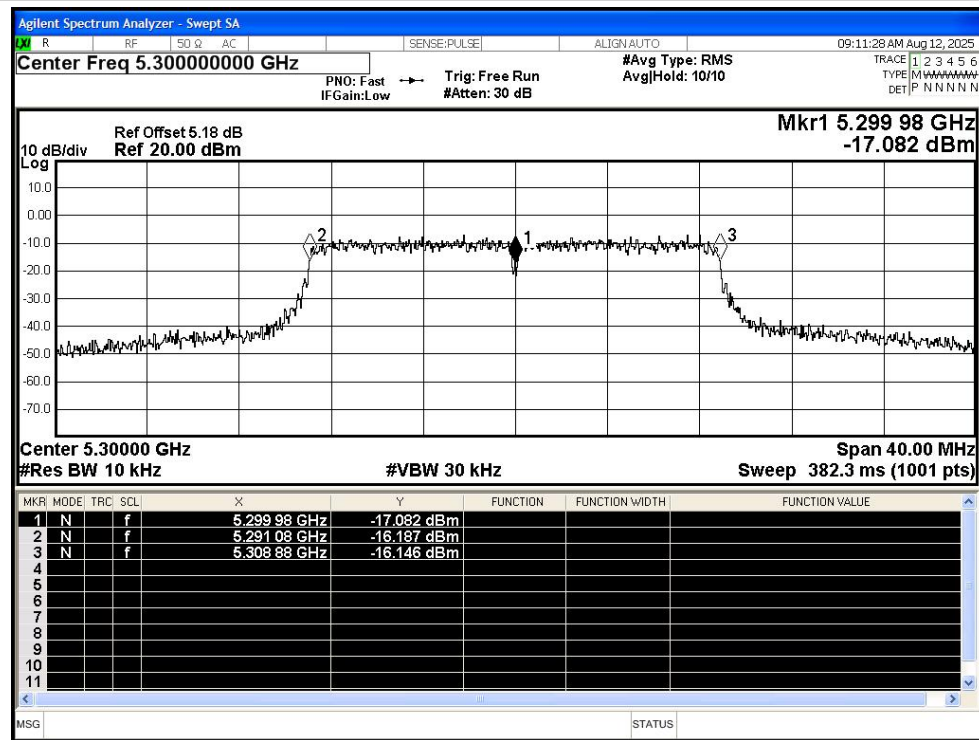
Freq. Stability NVNT a 5320MHz Ant1



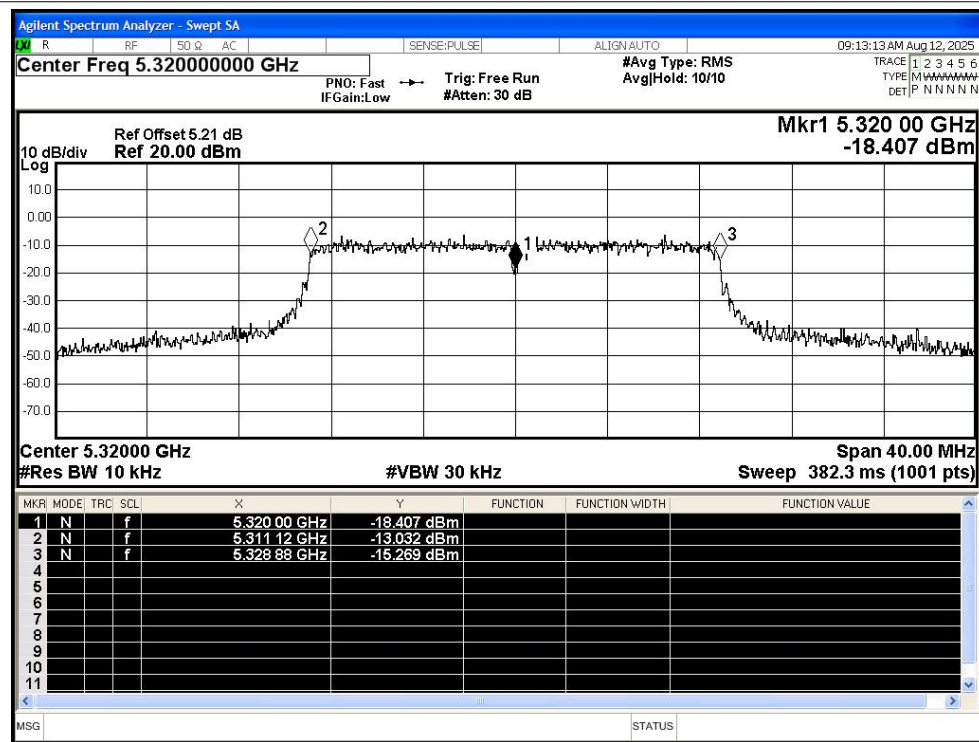
Freq. Stability NVNT n20 5260MHz Ant1



Freq. Stability NVNT n20 5300MHz Ant1



Freq. Stability NVNT n20 5320MHz Ant1

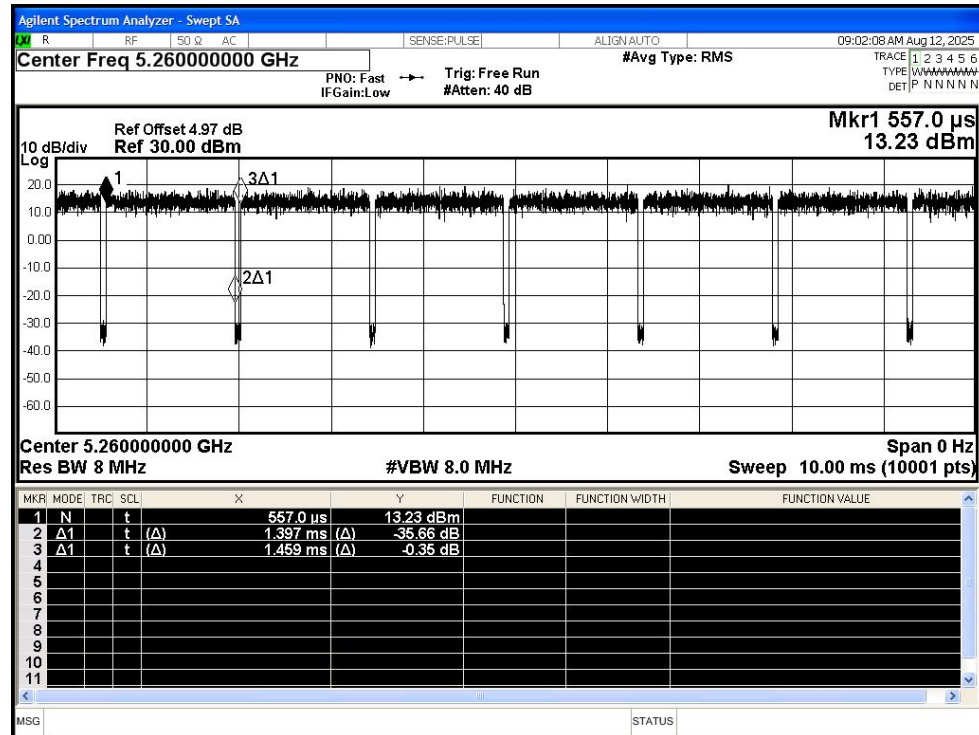


Duty Cycle

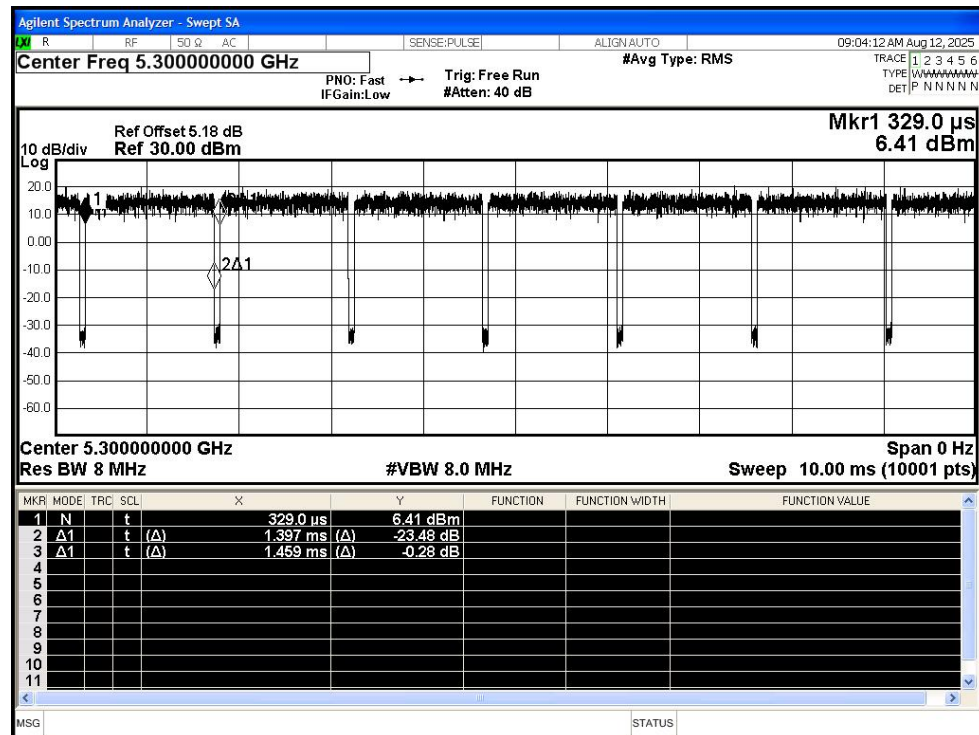
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	95.75	0.19	0.72
NVNT	a	5300	Ant1	95.75	0.19	0.72
NVNT	a	5320	Ant1	95.68	0.19	0.72
NVNT	n20	5260	Ant1	94.94	0.23	0.85
NVNT	n20	5300	Ant1	94.94	0.23	0.85
NVNT	n20	5320	Ant1	94.94	0.23	0.85

Test Graphs

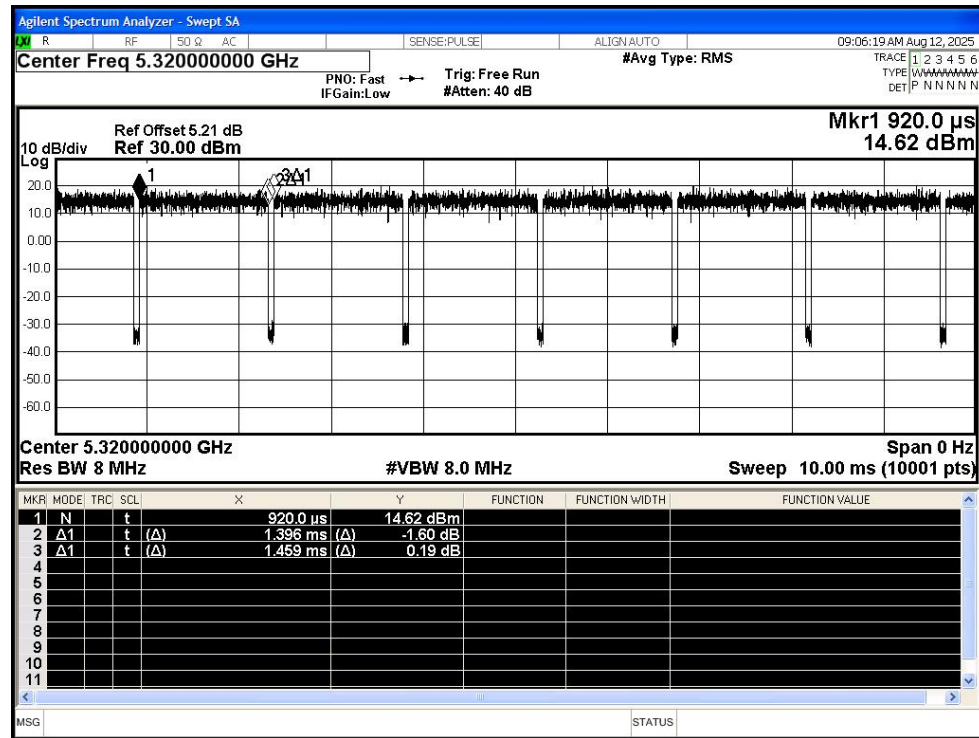
Duty Cycle NVNT a 5260MHz Ant1



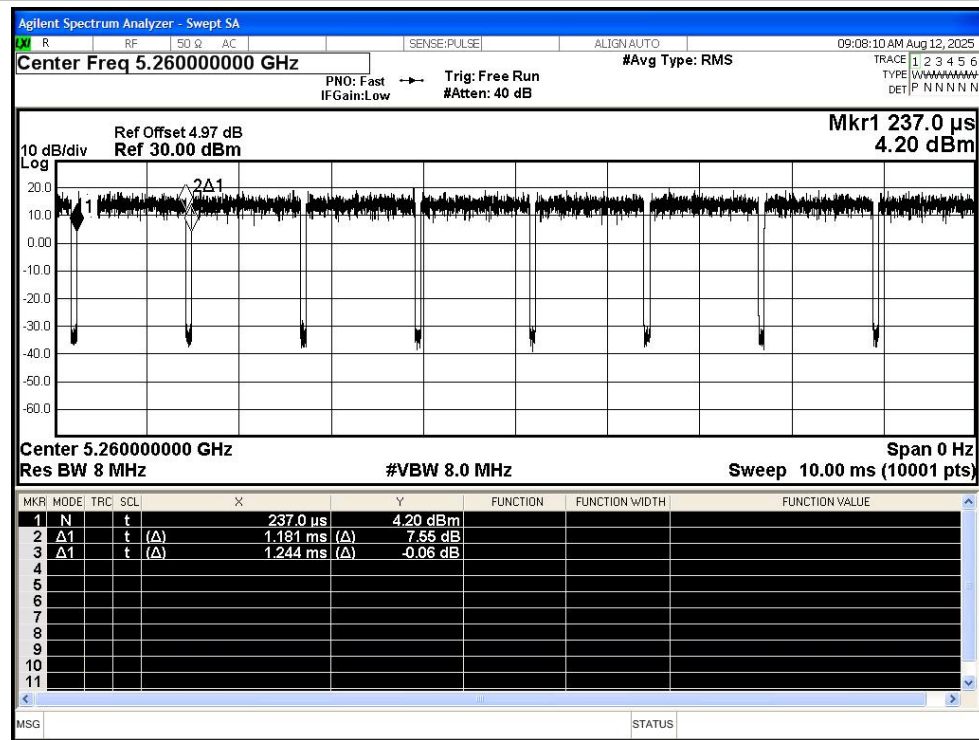
Duty Cycle NVNT a 5300MHz Ant1



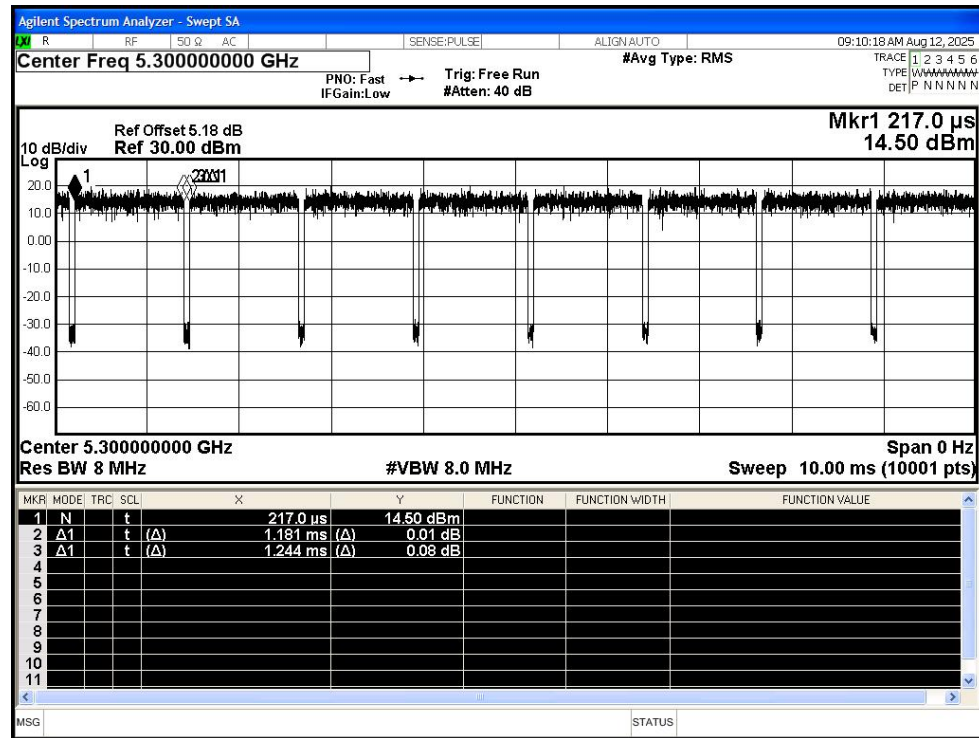
Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1



Duty Cycle NVNT n20 5300MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1

