



Appendix A

RF Test Data for 5.2G(Conducted Measurement)

Product Name: AirZone 5.8Ghz Instrument

Test Model: TR-U2

Environmental Conditions

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





A.1 -26dB Bandwidth

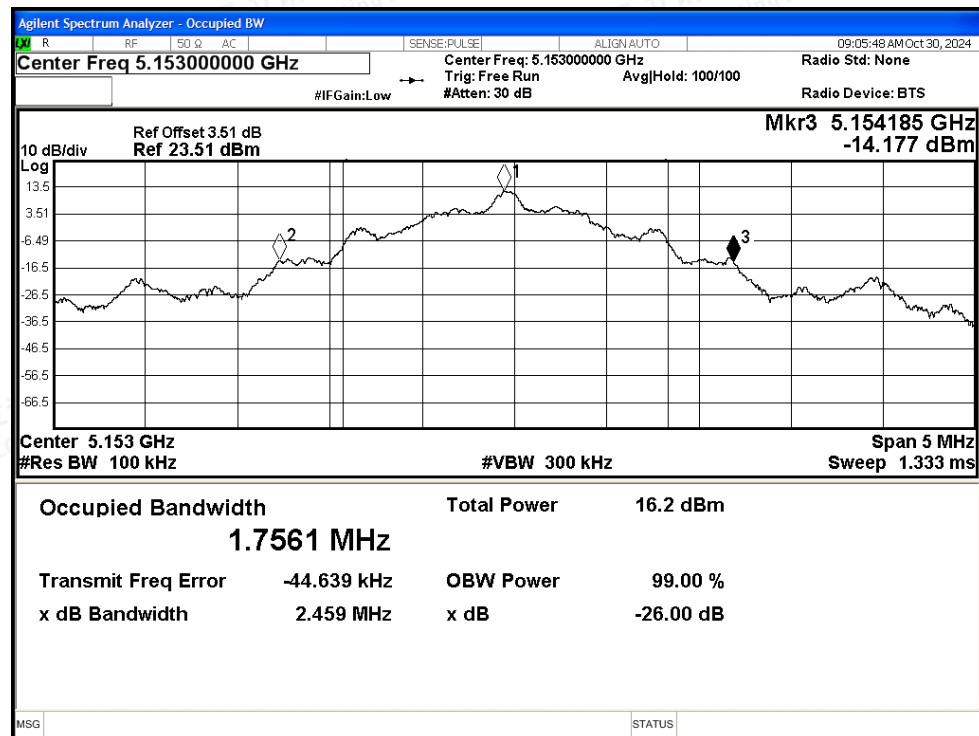
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	FSK	5153	Ant	2.459	---	Pass
NVNT	FSK	5194	Ant	2.286	---	Pass
NVNT	FSK	5248	Ant	2.172	---	Pass



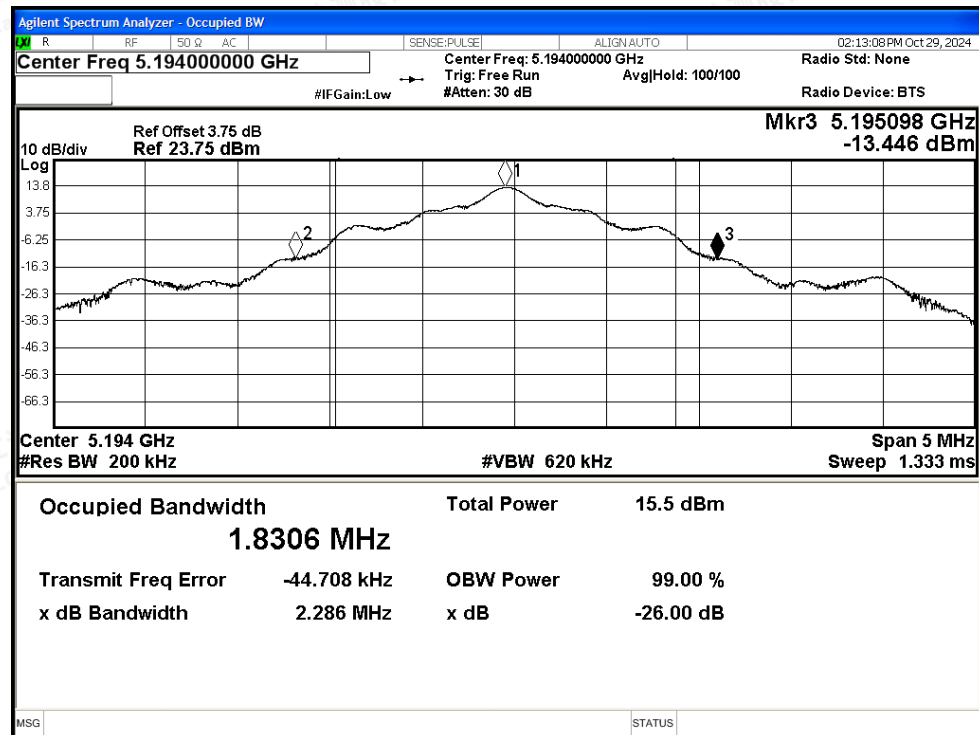


Test Graphs

-26dB Bandwidth NVNT a 5153MHz Ant



-26dB Bandwidth NVNT a 5194MHz Ant

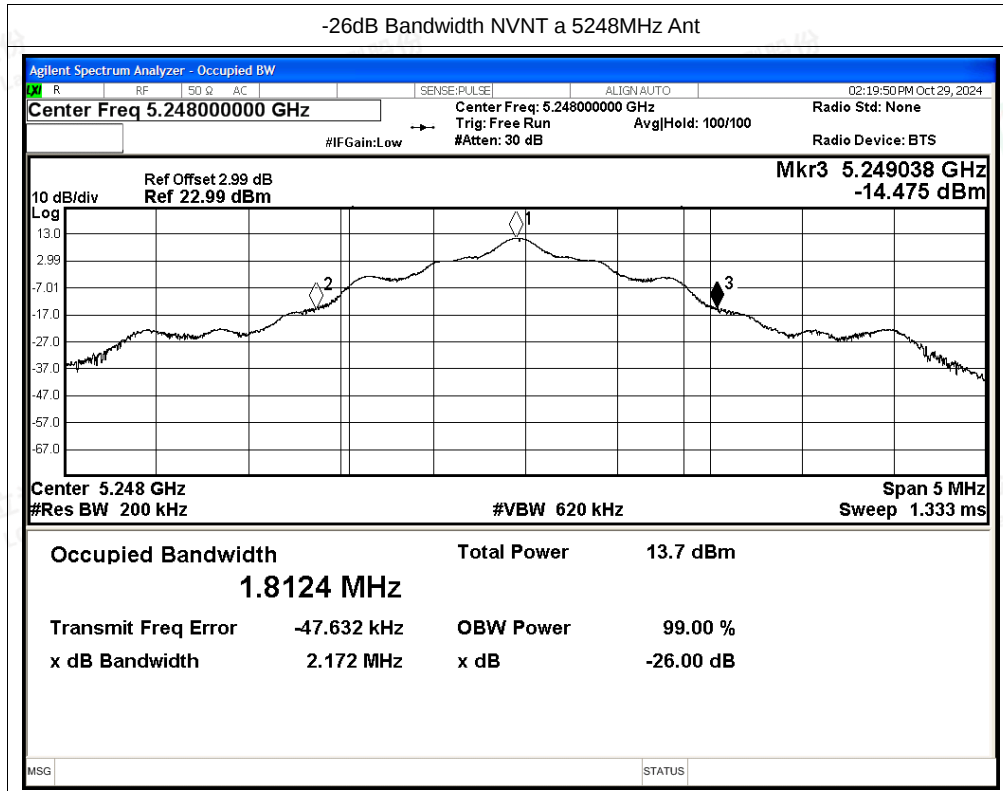


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	FSK	5153	Ant	7.98	0	7.98	24	Pass
NVNT	FSK	5194	Ant	7.73	0	7.73	24	Pass
NVNT	FSK	5248	Ant	7.46	0	7.46	24	Pass





A.3 Maximum Power Spectral Density Level

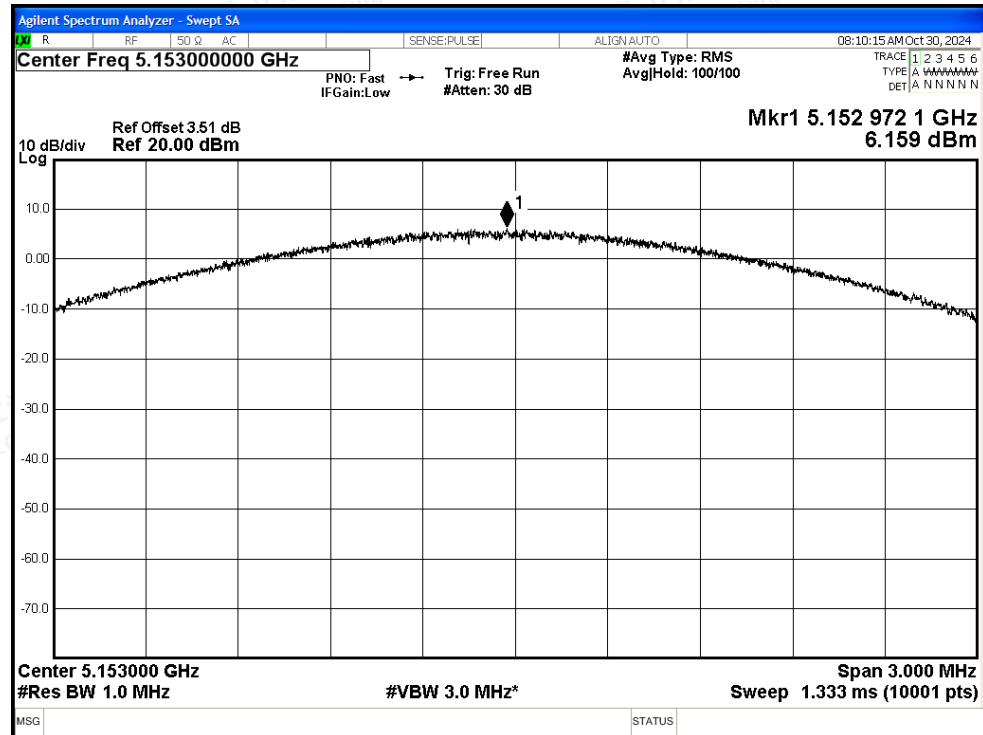
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	FSK	5153	Ant	6.159	0	6.159	11	Pass
NVNT	FSK	5194	Ant	6.074	0	6.074	11	Pass
NVNT	FSK	5248	Ant	6.038	0	6.038	11	Pass



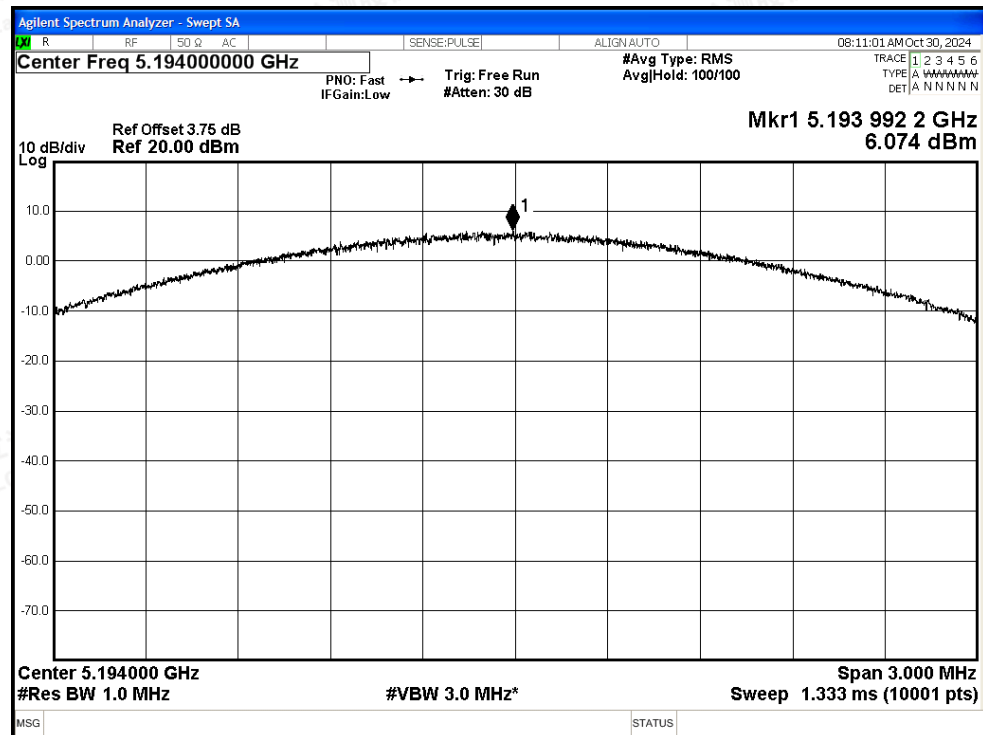


Test Graphs

PSD NVNT a 5153MHz Ant



PSD NVNT a 5194MHz Ant

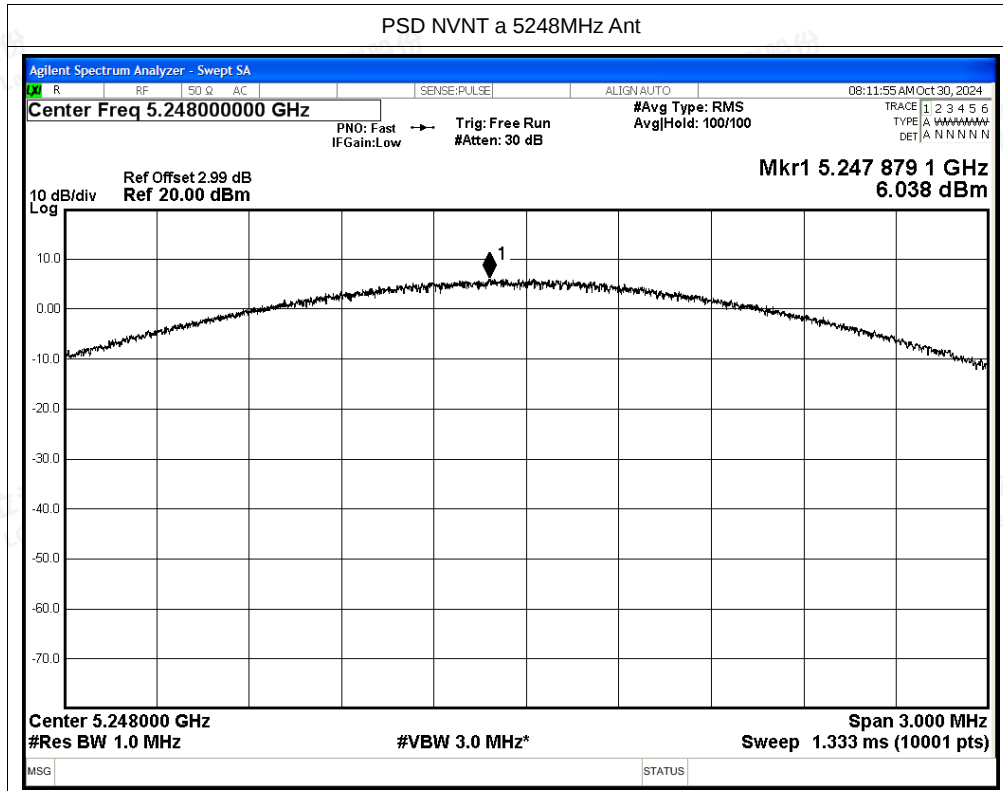


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A.4 Restrict Band

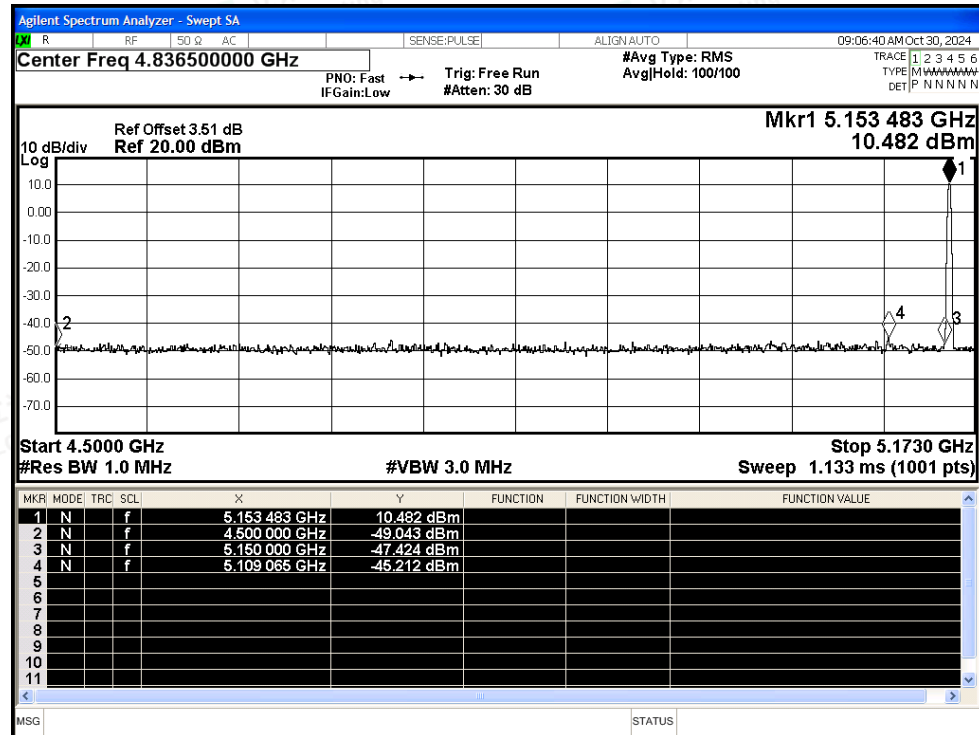
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	FSK	5153	Ant	4500	-49.04	2.96	-	49.18	Peak	68.2	Pass
NVNT	FSK	5153	Ant	4500	-57.82	2.96	0	40.40	Average	54	Pass
NVNT	FSK	5153	Ant	5109.065	-45.21	2.96	-	53.01	Peak	68.2	Pass
NVNT	FSK	5153	Ant	5096.951	-56.39	2.96	0	41.83	Average	54	Pass
NVNT	FSK	5153	Ant	5150	-47.42	2.96	-	50.80	Peak	68.2	Pass
NVNT	FSK	5153	Ant	5150	-57.08	2.96	0	41.14	Average	54	Pass
NVNT	FSK	5248	Ant	5350	-49.64	2.96	-	48.58	Peak	68.2	Pass
NVNT	FSK	5248	Ant	5350	-58.1	2.96	0	40.12	Average	54	Pass
NVNT	FSK	5248	Ant	5389.008	-46.64	2.96	-	51.58	Peak	68.2	Pass
NVNT	FSK	5248	Ant	5419.864	-57.14	2.96	0	41.08	Average	54	Pass
NVNT	FSK	5248	Ant	5460	-48.73	2.96	-	49.49	Peak	68.2	Pass
NVNT	FSK	5248	Ant	5460	-57.74	2.96	0	40.48	Average	54	Pass



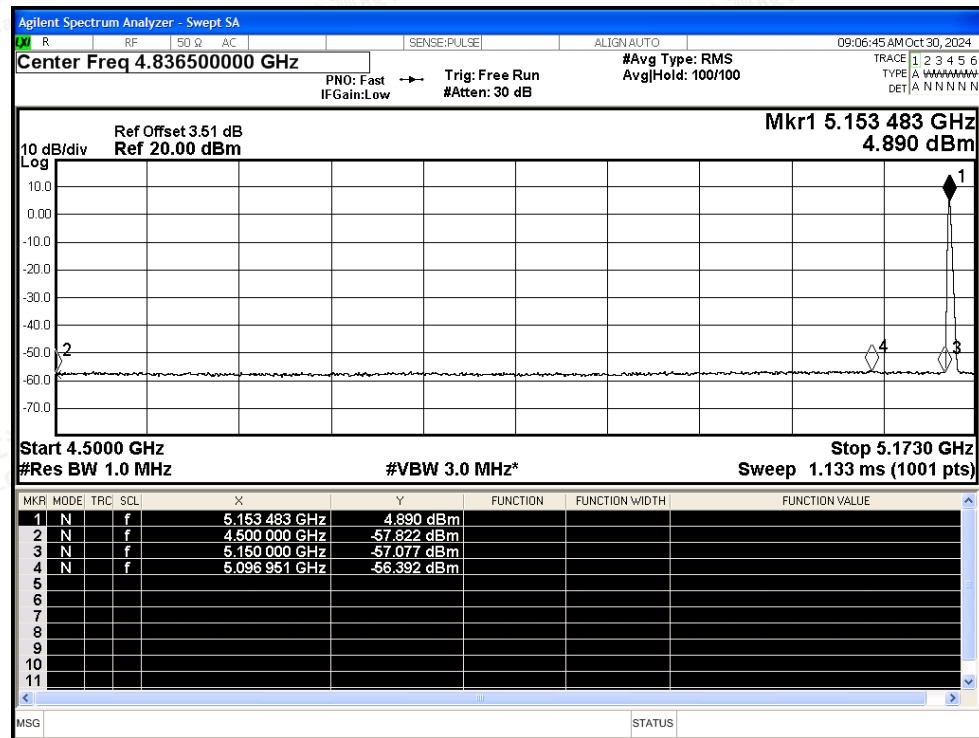


Test Graphs

Restrict Band NVNT a 5153MHz Ant Peak



Restrict Band NVNT a 5153MHz Ant Average



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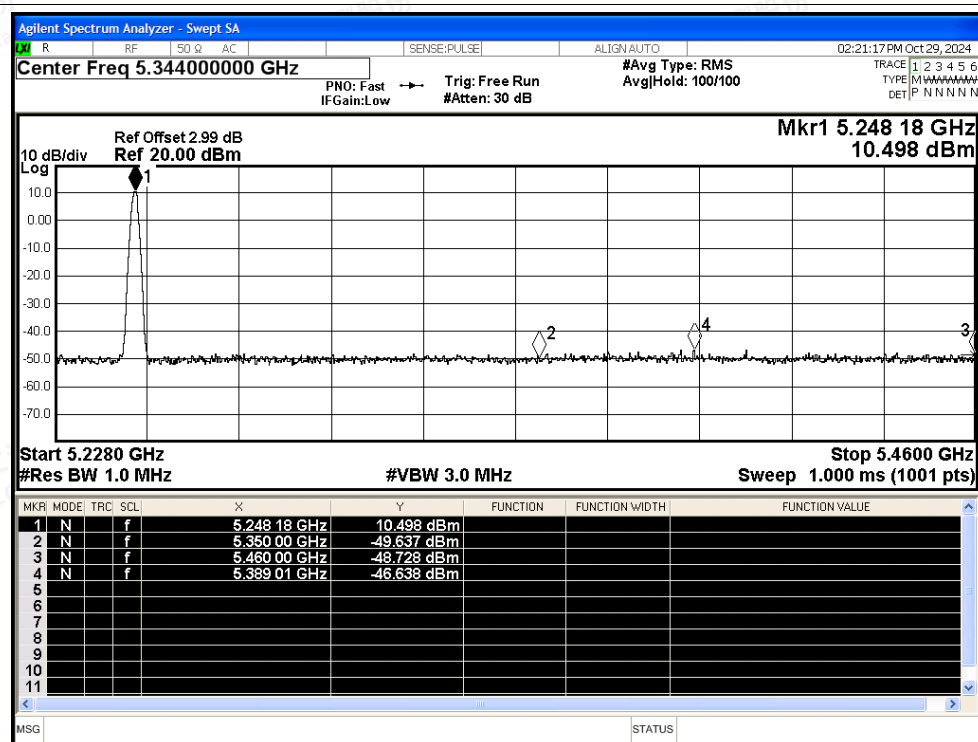
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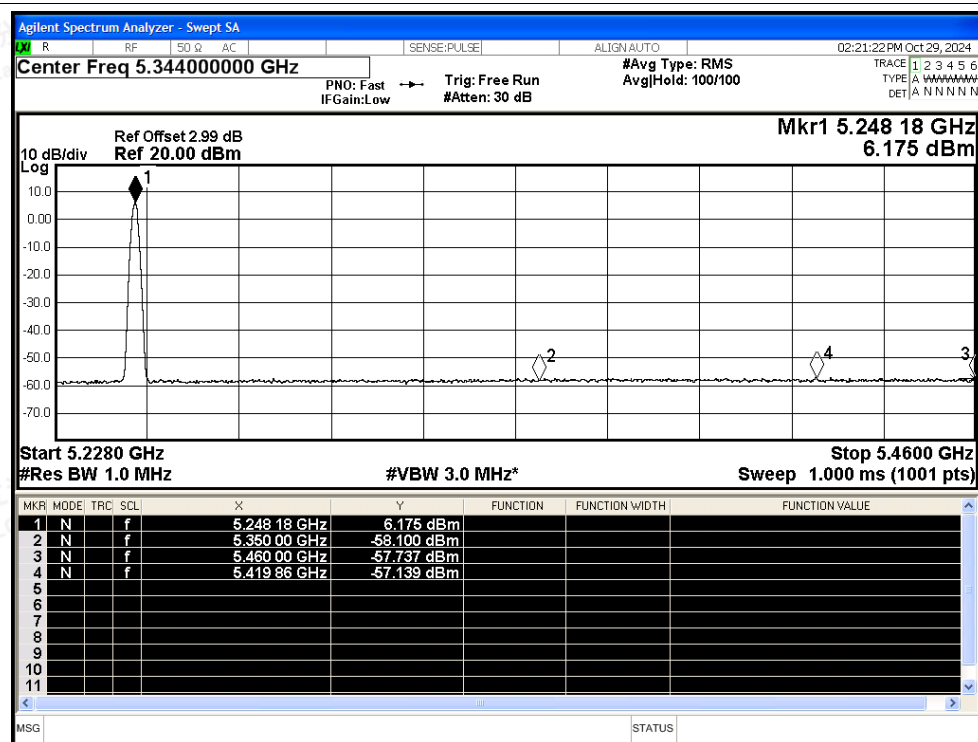
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Restrict Band NVNT a 5248MHz Ant Peak



Restrict Band NVNT a 5248MHz Ant Average



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A.5 Frequency Stability

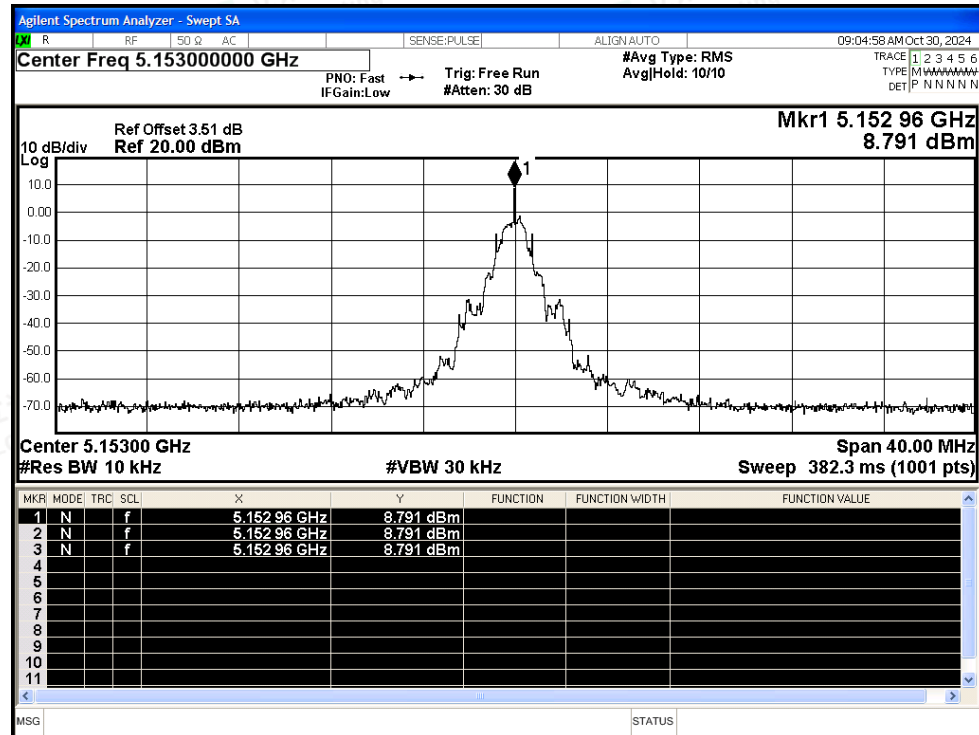
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	FSK	5153	Ant	5152.96	-40000	-7.76	25	Pass
NVNT	FSK	5194	Ant	5193.96	-40000	-7.7	25	Pass
NVNT	FSK	5248	Ant	5247.96	-40000	-7.62	25	Pass



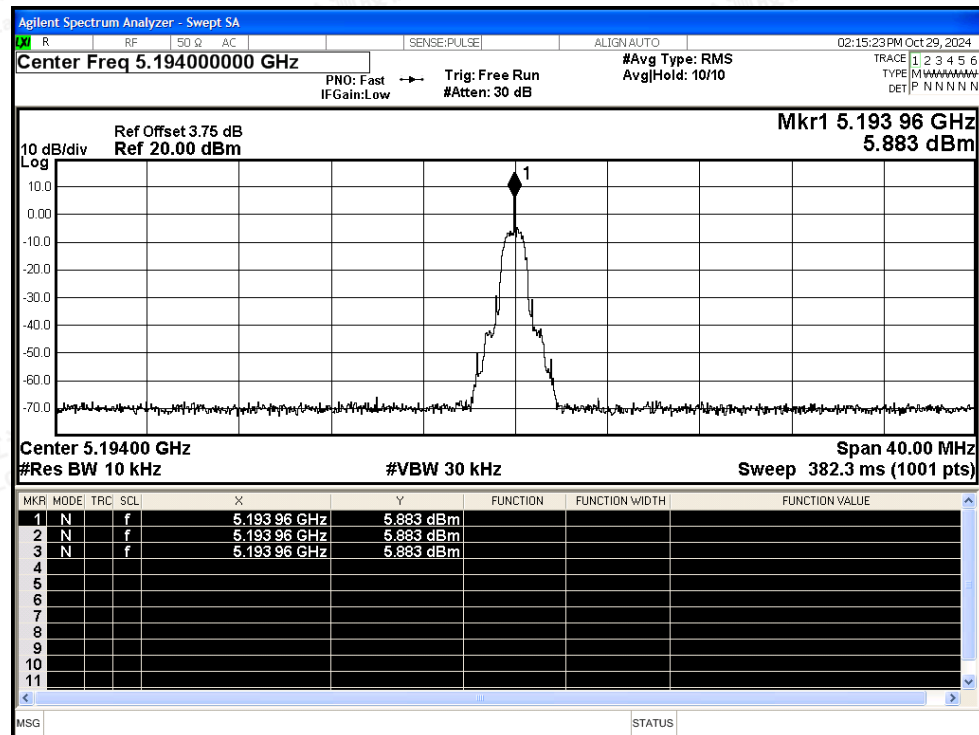


Test Graphs

Freq. Stability NVNT a 5153MHz Ant



Freq. Stability NVNT a 5194MHz Ant

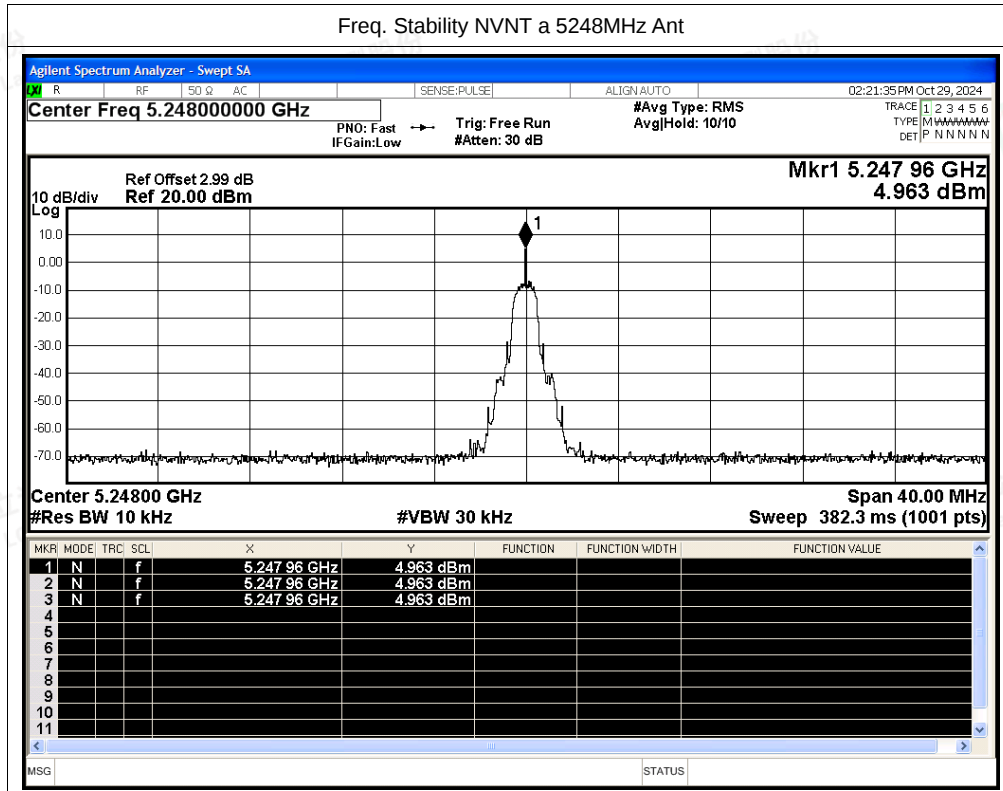


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A.6 Duty Cycle

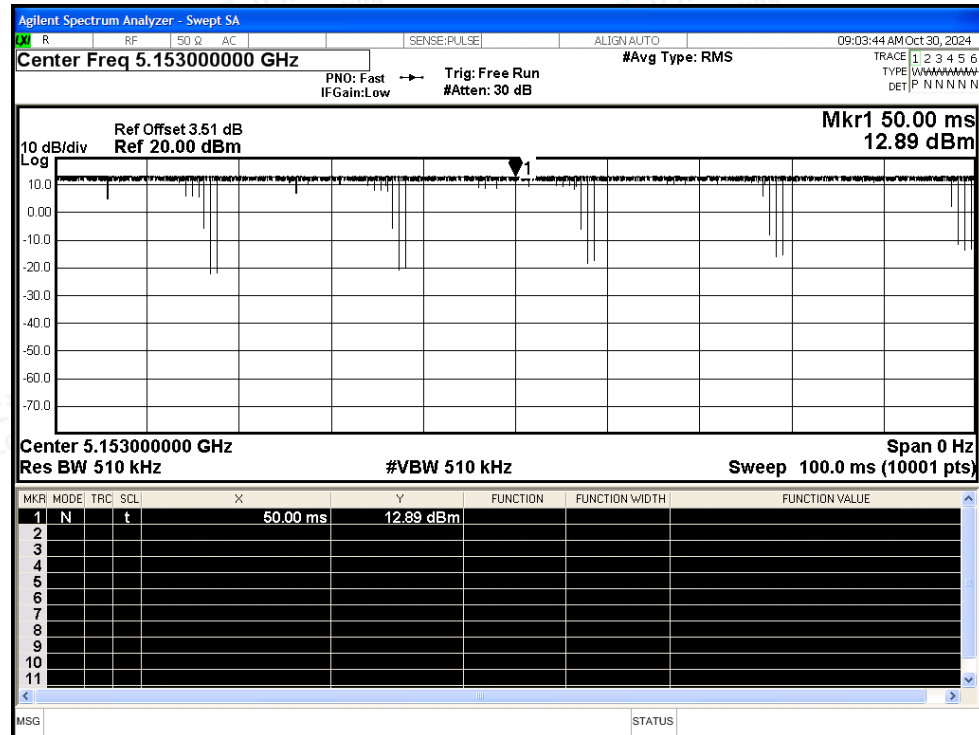
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	FSK	5153	Ant	100	0	0
NVNT	FSK	5194	Ant	100	0	0
NVNT	FSK	5248	Ant	100	0	0



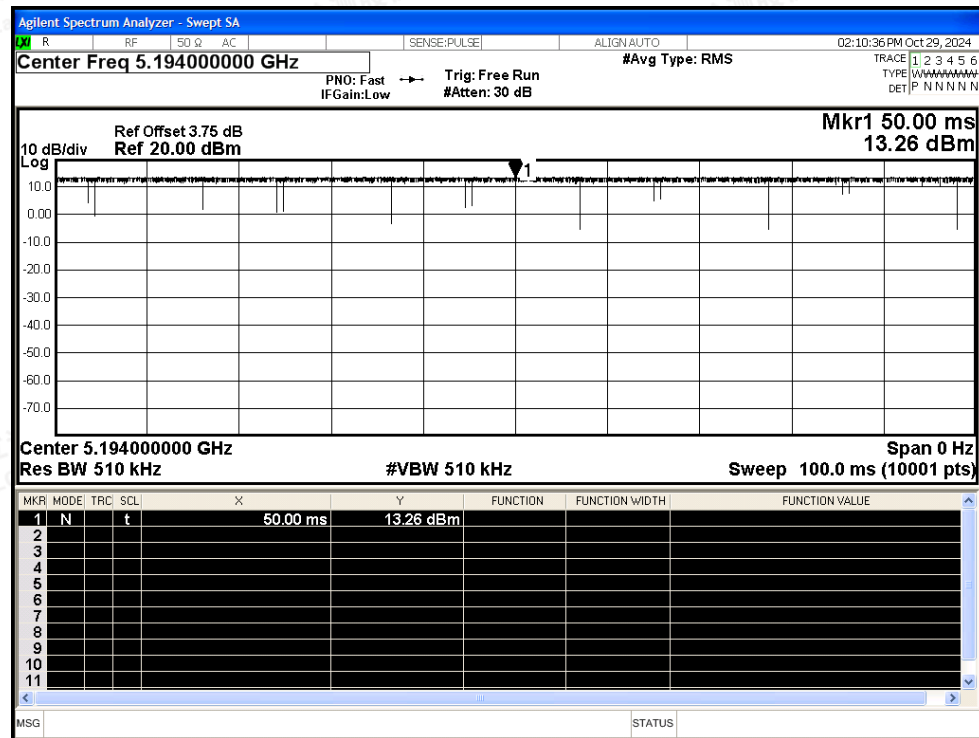


Test Graphs

Duty Cycle NVNT a 5153MHz Ant



Duty Cycle NVNT a 5194MHz Ant



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