Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.30	5785.00490	5785	0.00490	0.8470
		V max (V)	3.80	5785.00630	5785	0.00630	1.0890
		V min (V)	2.81	5785.01090	5785	0.01090	1.8842
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5785.01000	5785	0.01000	1.7286
		T (°C)	-10	5785.01260	5785	0.01260	2.1780
		T (°C)	0	5785.01220	5785	0.01220	2.1089
		T (°C)	10	5785.00370	5785	0.00370	0.6396
		T (°C)	20	5785.00180	5785	0.00180	0.3111
		T (°C)	30	5785.00190	5785	0.00190	0.3284
		T (°C)	40	5785.00490	5785	0.00490	0.8470
		T (°C)	50	5785.01230	5785	0.01230	2.1262
		T (°C)	60	5785.00070	5785	0.00070	0.1210
		T (°C)	70	5785.00160	5785	0.00160	0.2766
Limits				5725-5850 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.30	5825.00540	5825	0.00540	0.9270
		V max (V)	3.80	5825.00470	5825	0.00470	0.8069
		V min (V)	2.81	5825.00280	5825	0.00280	0.4807
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5825.00780	5825	0.00780	1.3391
		T (°C)	-10	5825.00540	5825	0.00540	0.9270
		T (°C)	0	5825.00620	5825	0.00620	1.0644
		T (°C)	10	5825.00560	5825	0.00560	0.9614
		T (°C)	20	5825.00180	5825	0.00180	0.3090
		T (°C)	30	5825.00760	5825	0.00760	1.3047
		T (°C)	40	5825.01050	5825	0.01050	1.8026
		T (°C)	50	5825.00160	5825	0.00160	0.2747
		T (°C)	60	5825.01190	5825	0.01190	2.0429
		T (°C)	70	5825.00610	5825	0.00610	1.0472
Limits				5725-5850 MHz			
Result				Complies			

14. Duty Cycle Of Test Signal

14.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

14.2 Formula

Duty Cycle = Ton / (Ton+Toff)

14.3 Test Procedure

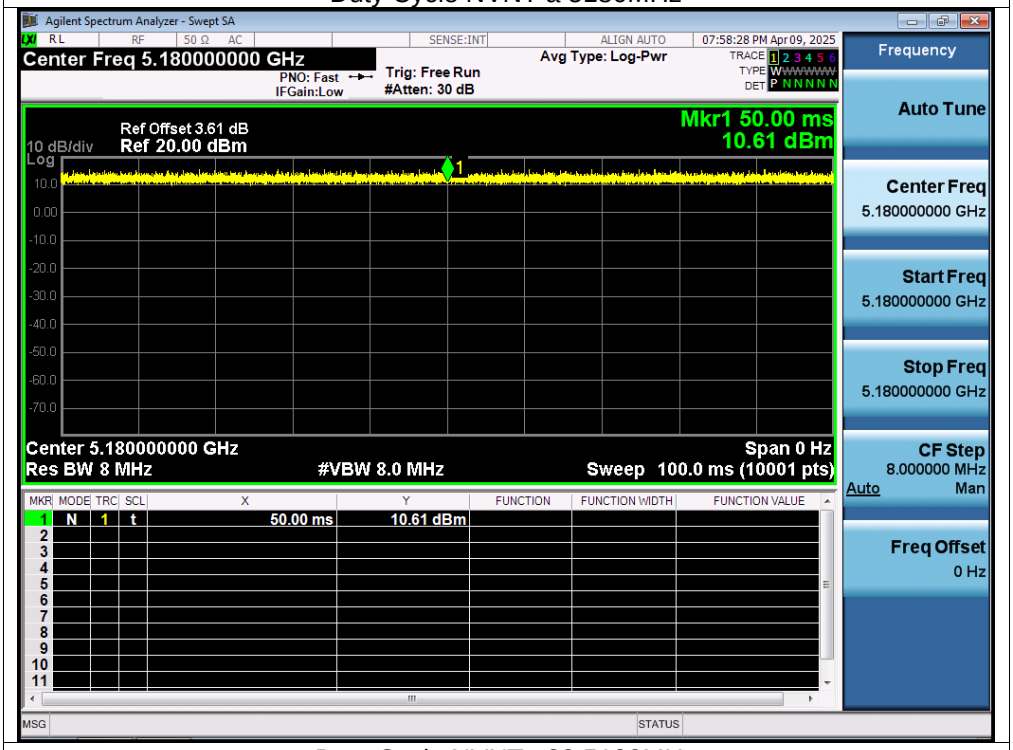
1.Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

14.4 Test Result

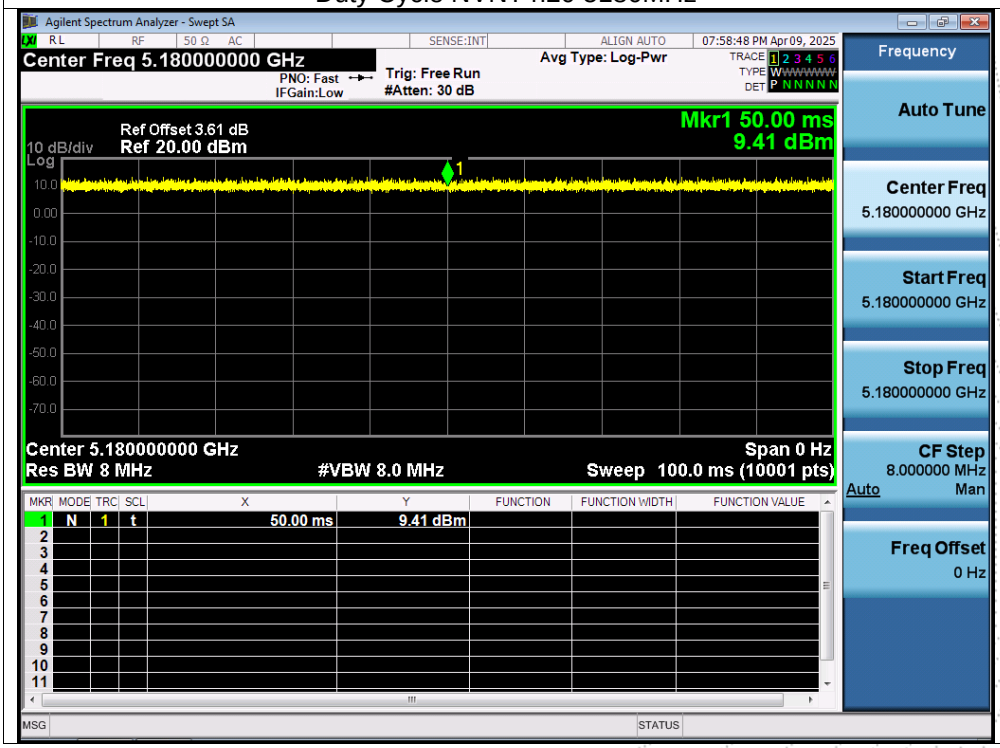
Condition	Mode	Frequency (MHz)	Duty Cycle (%)
NVNT	a	5180	100
NVNT	n20	5180	100
NVNT	n40	5190	100
NVNT	ac20	5180	100
NVNT	ac40	5190	100
NVNT	ac80	5210	100
NVNT	ax20	5180	100
NVNT	ax40	5190	100
NVNT	ax80	5210	100

Test Graphs

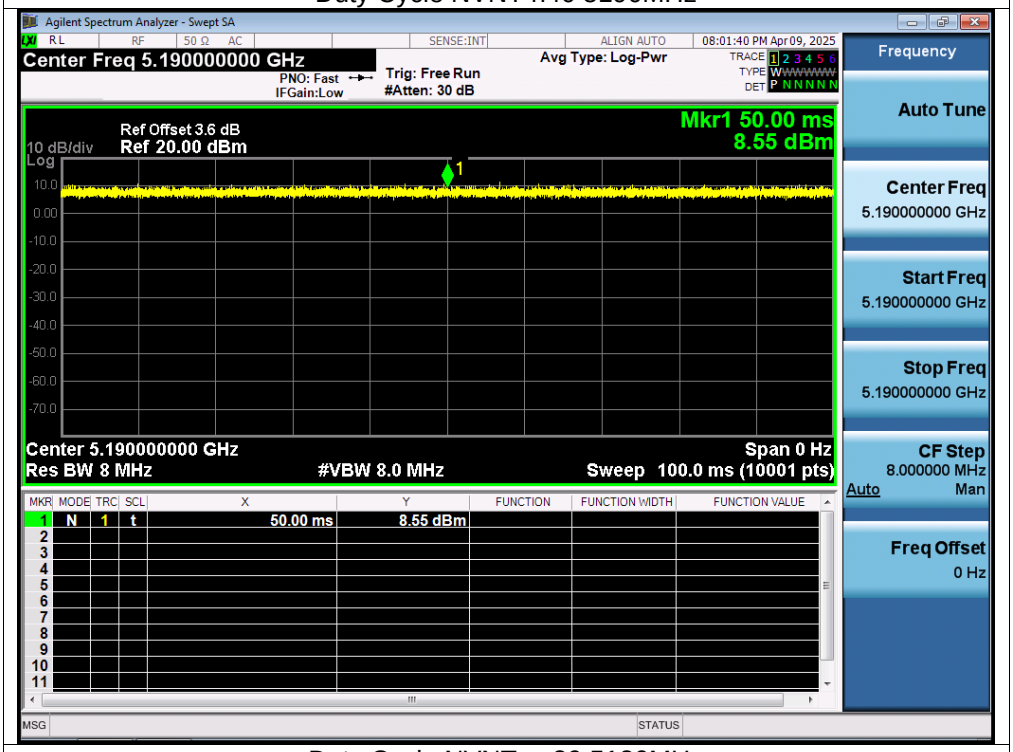
Duty Cycle NVNT a 5180MHz



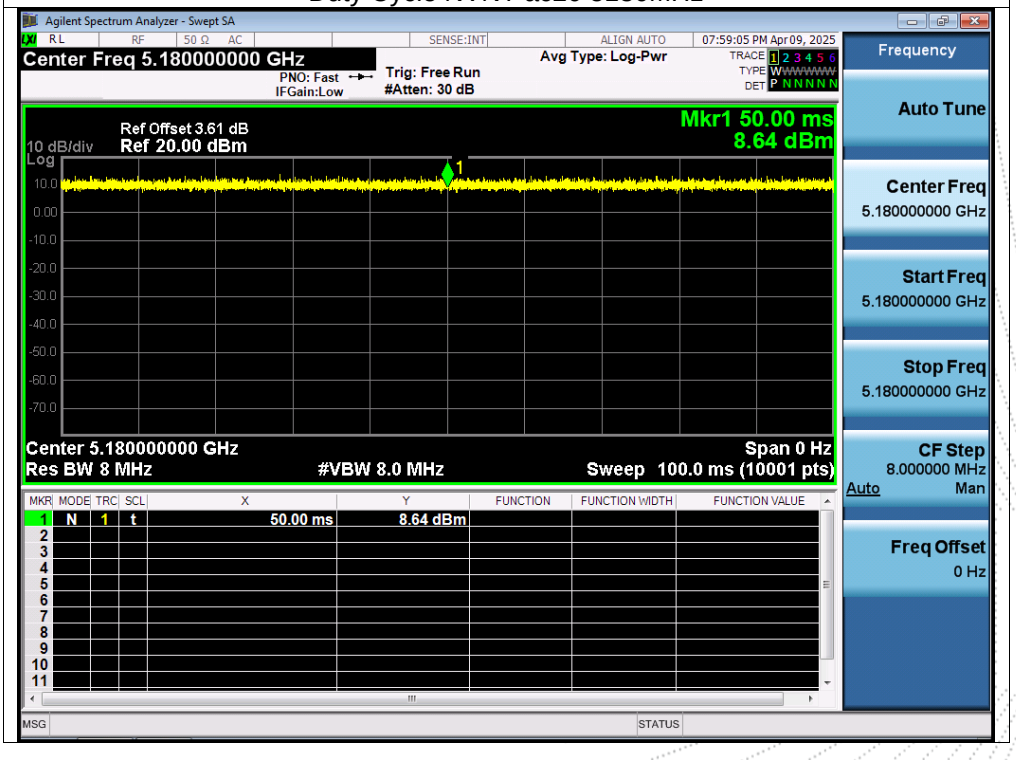
Duty Cycle NVNT n20 5180MHz



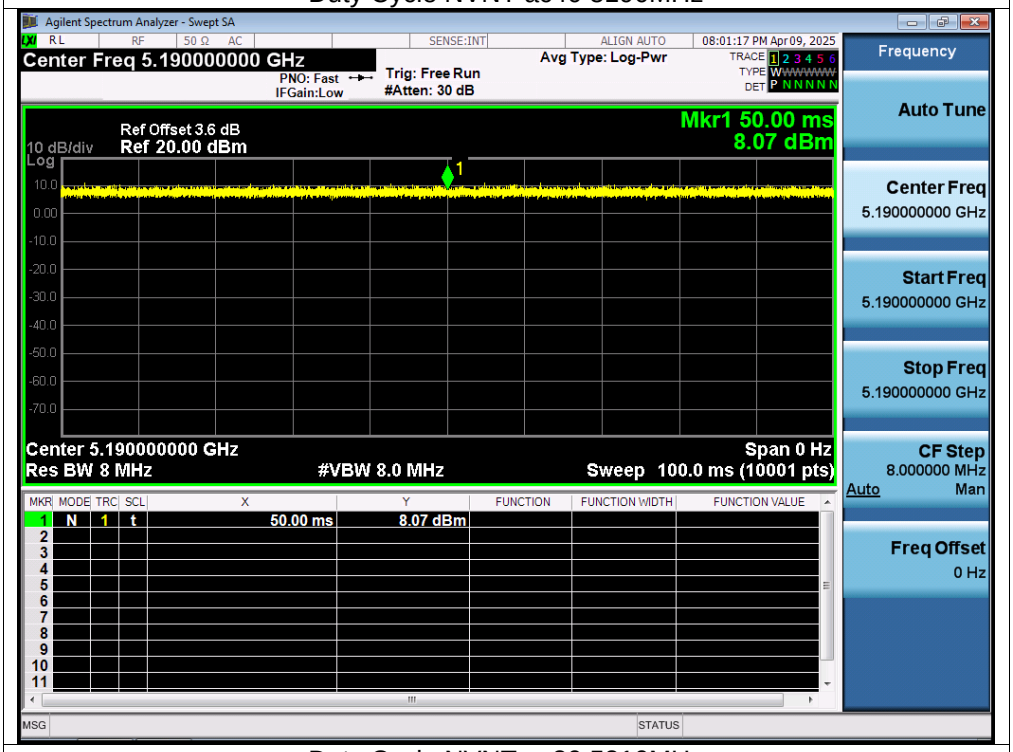
Duty Cycle NVNT n40 5190MHz



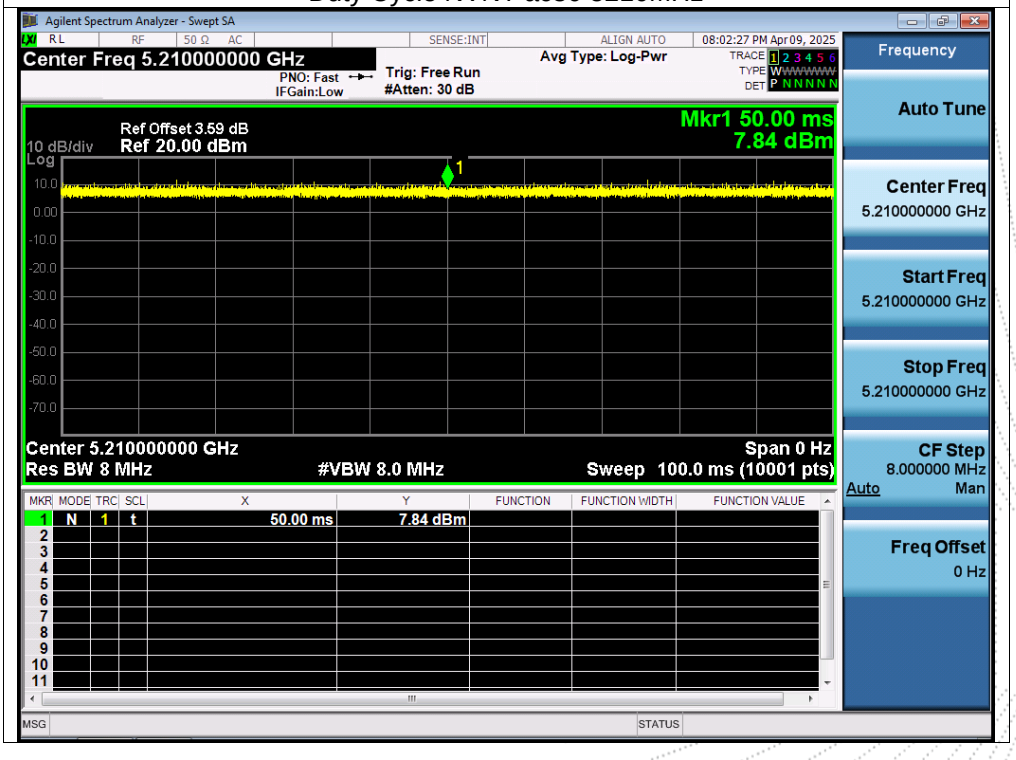
Duty Cycle NVNT ac20 5180MHz



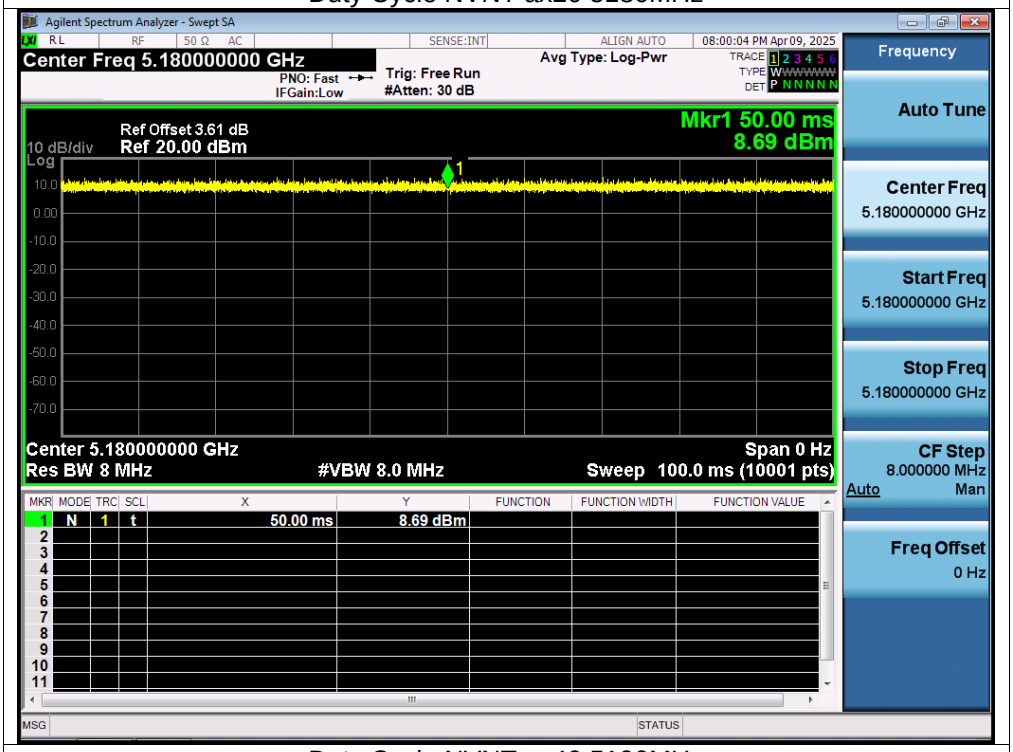
Duty Cycle NVNT ac40 5190MHz



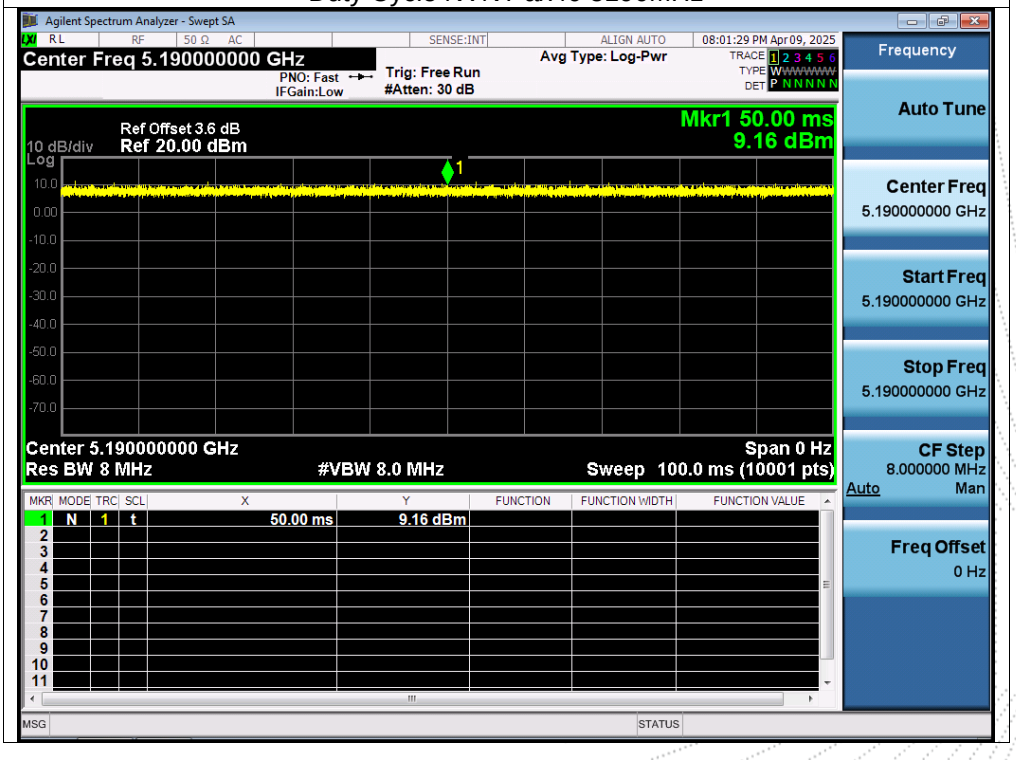
Duty Cycle NVNT ac80 5210MHz



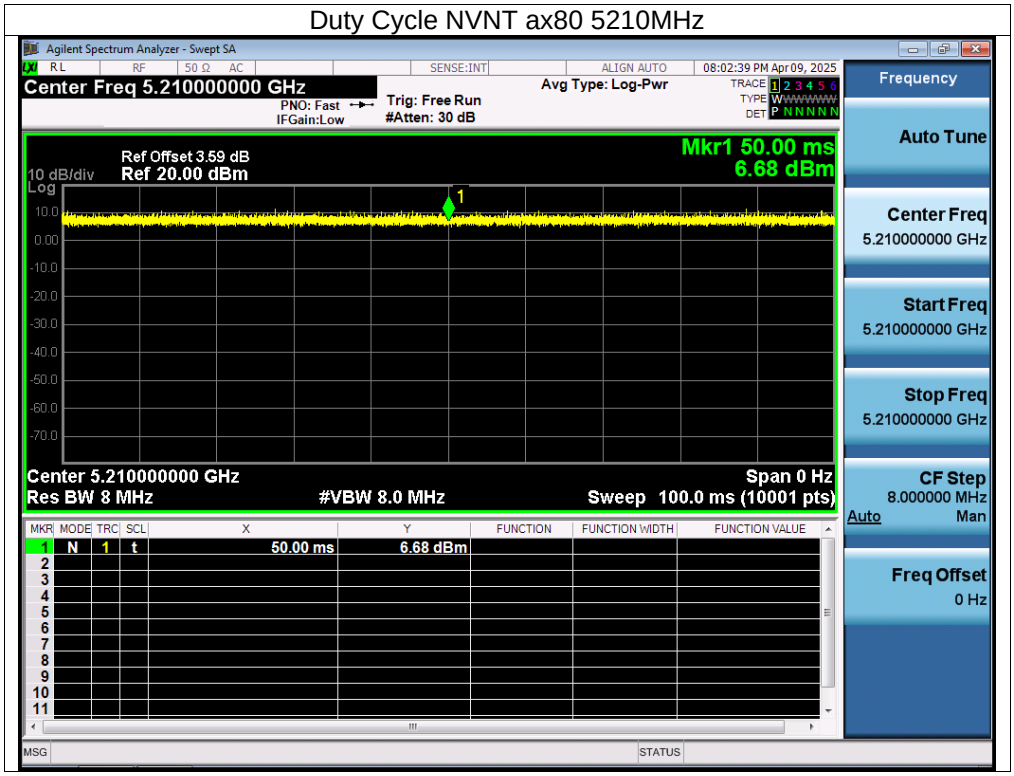
Duty Cycle NVNT ax20 5180MHz



Duty Cycle NVNT ax40 5190MHz



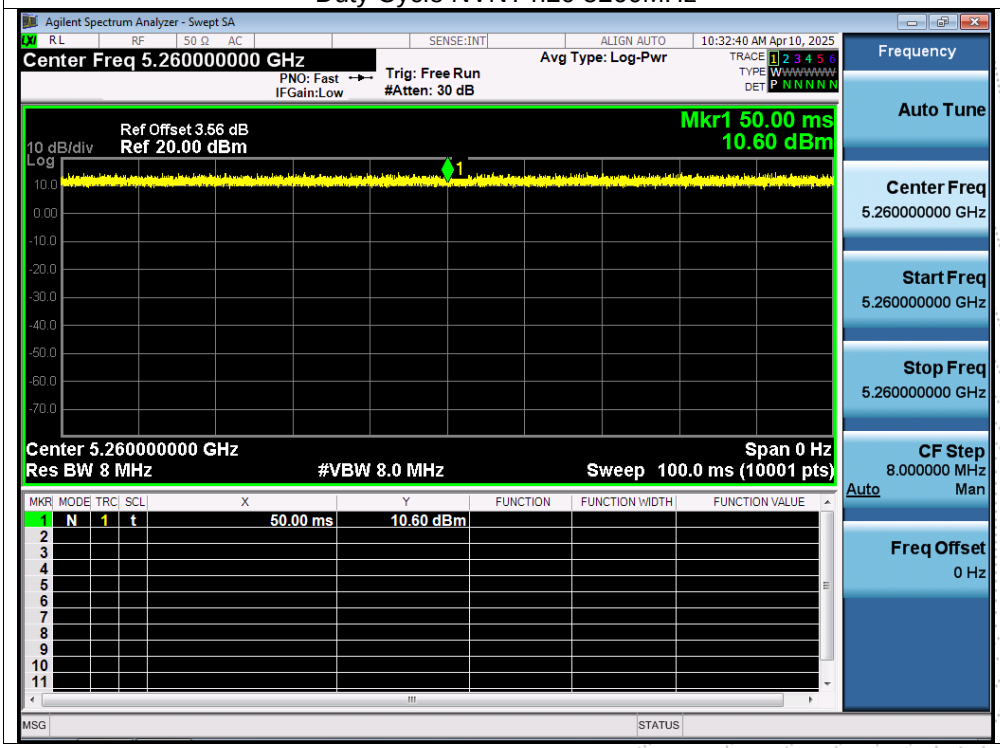
Duty Cycle NVNT ax80 5210MHz



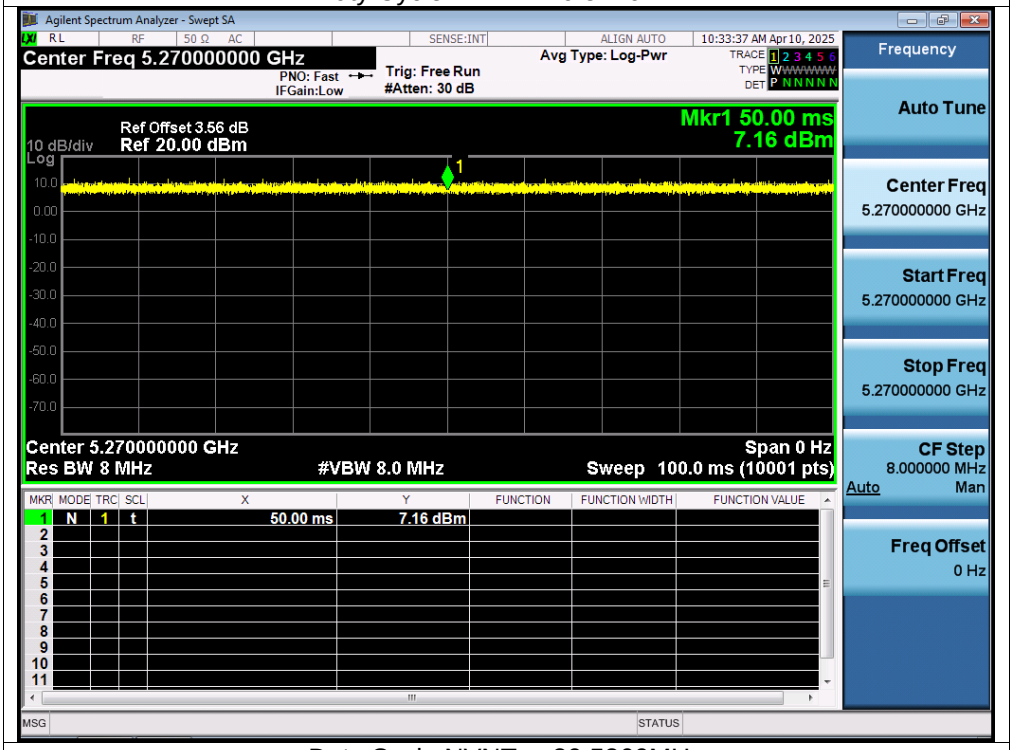
Condition	Mode	Frequency (MHz)	Duty Cycle (%)
NVNT	a	5260	100
NVNT	n20	5260	100
NVNT	n40	5270	100
NVNT	ac20	5260	100
NVNT	ac40	5270	100
NVNT	ac80	5290	100
NVNT	ax20	5260	100
NVNT	ax40	5270	100
NVNT	ax80	5290	100

Test Graphs
Duty Cycle NVNT a 5260MHz

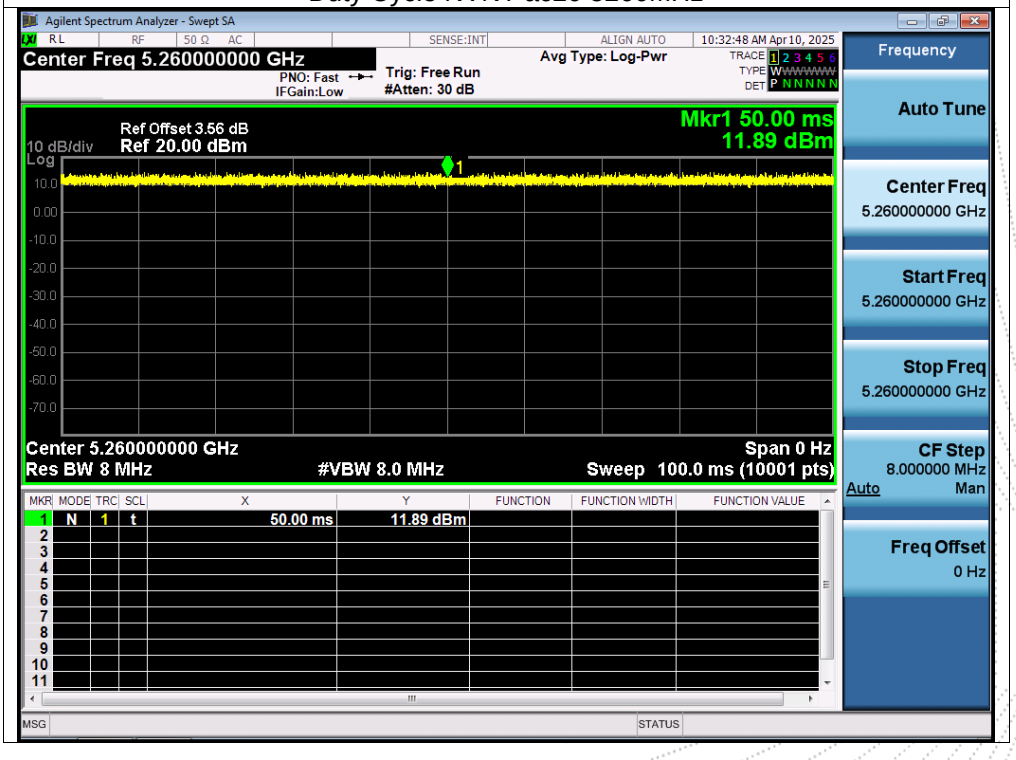
Duty Cycle NVNT n20 5260MHz



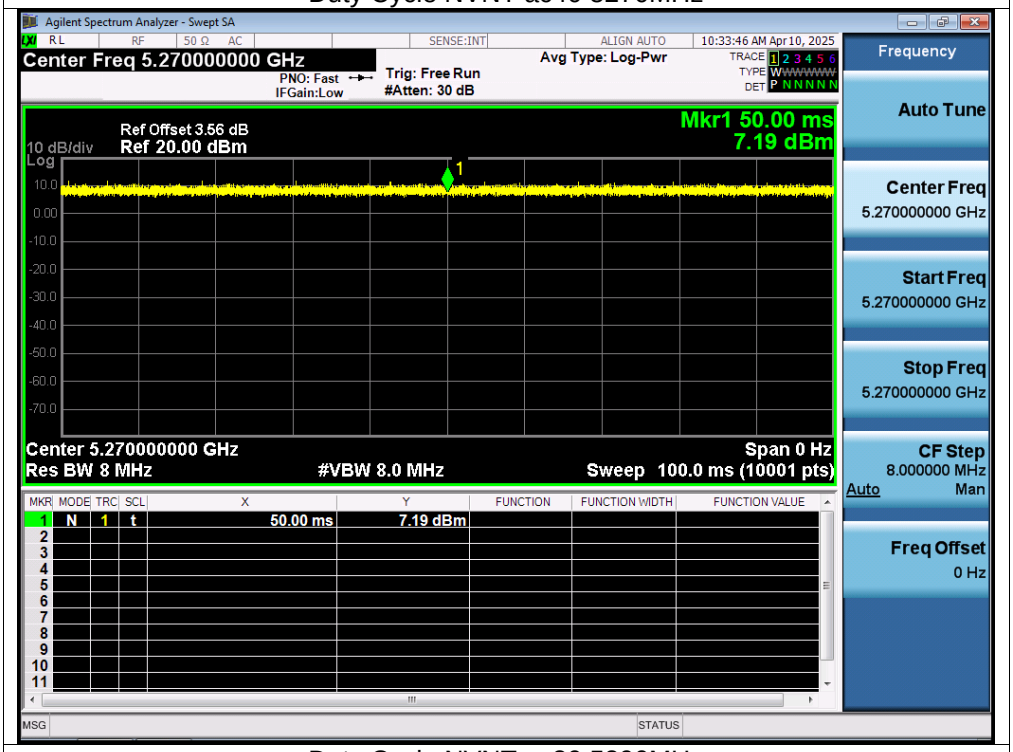
Duty Cycle NVNT n40 5270MHz



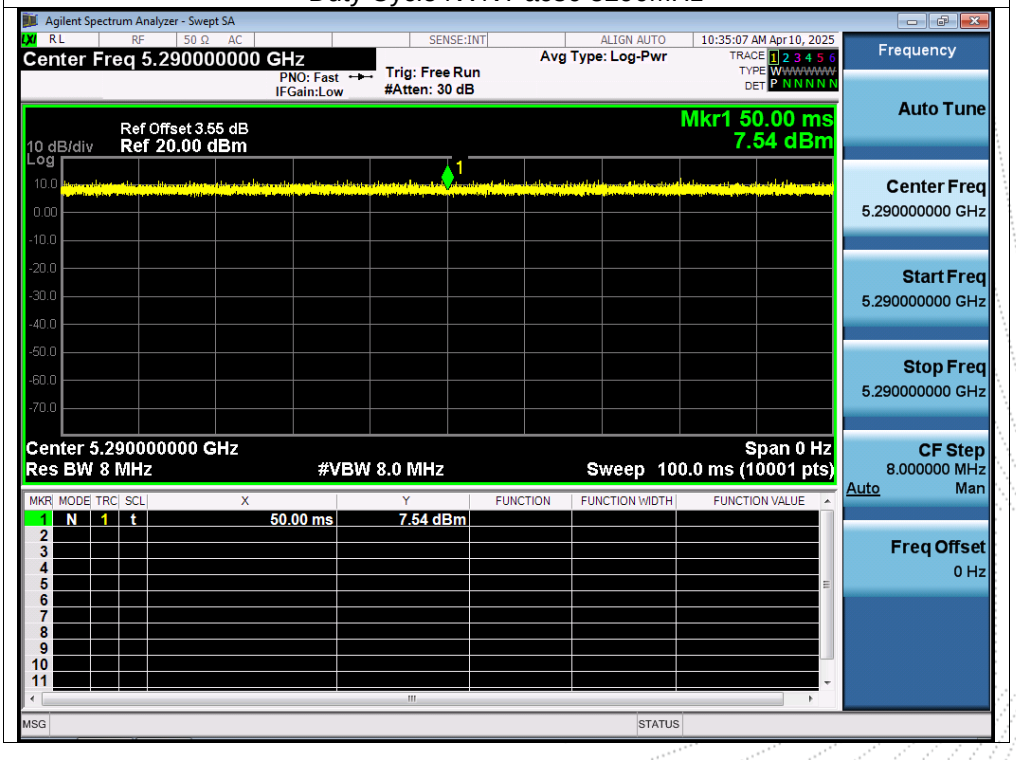
Duty Cycle NVNT ac20 5260MHz



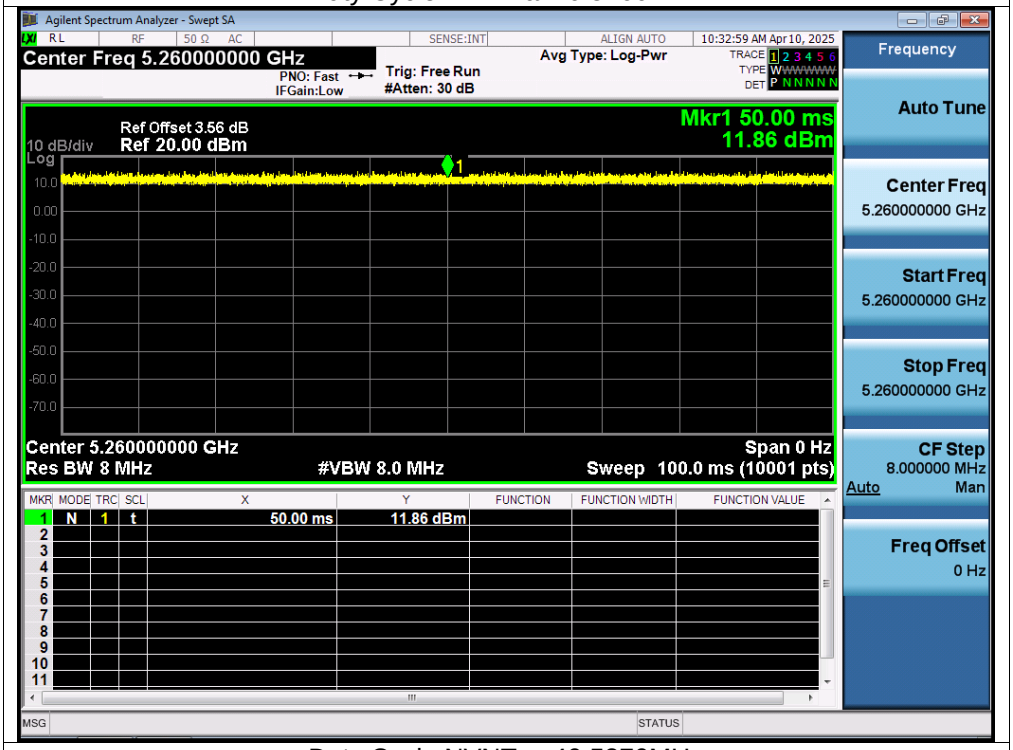
Duty Cycle NVNT ac40 5270MHz



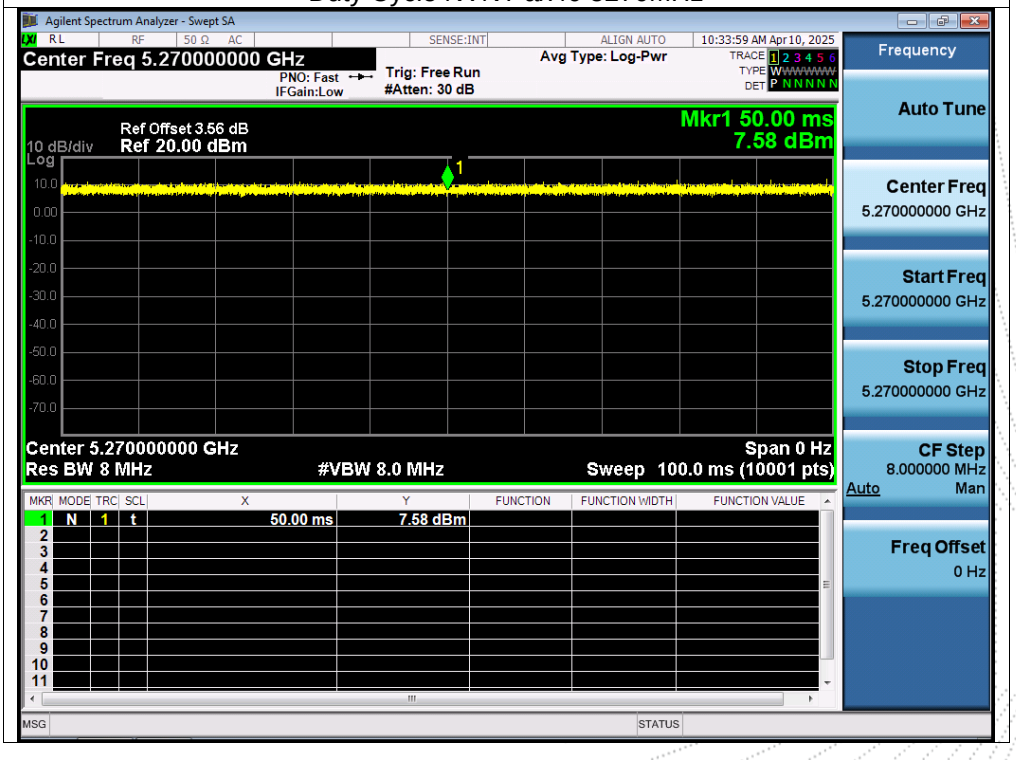
Duty Cycle NVNT ac80 5290MHz



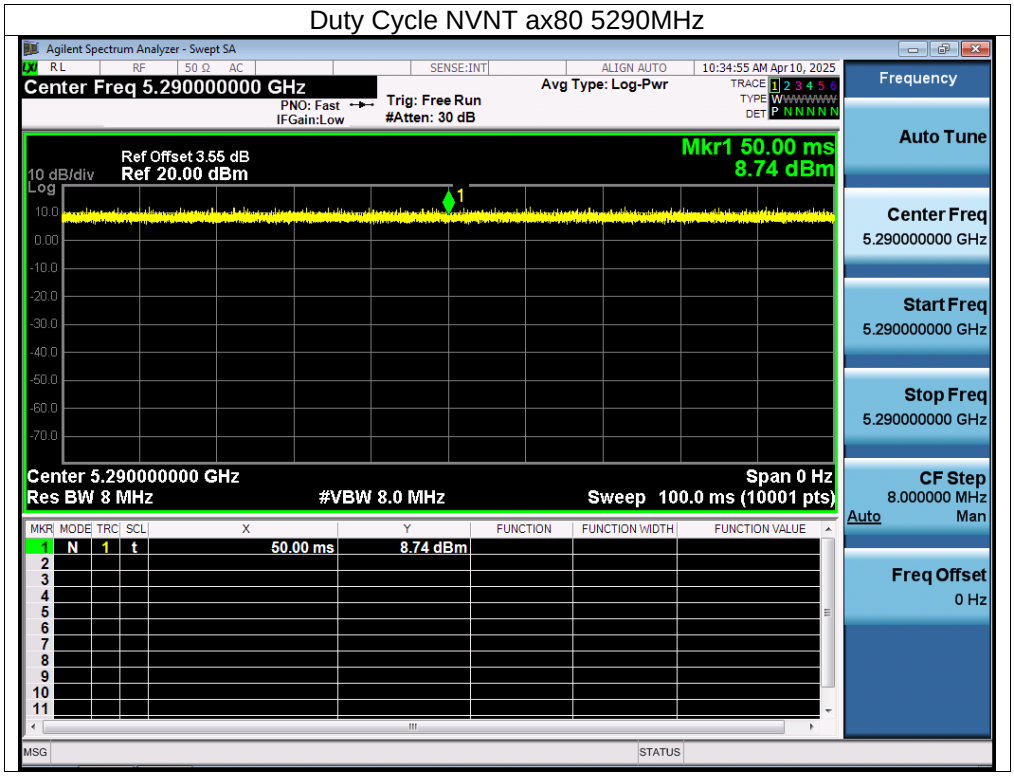
Duty Cycle NVNT ax20 5260MHz



Duty Cycle NVNT ax40 5270MHz



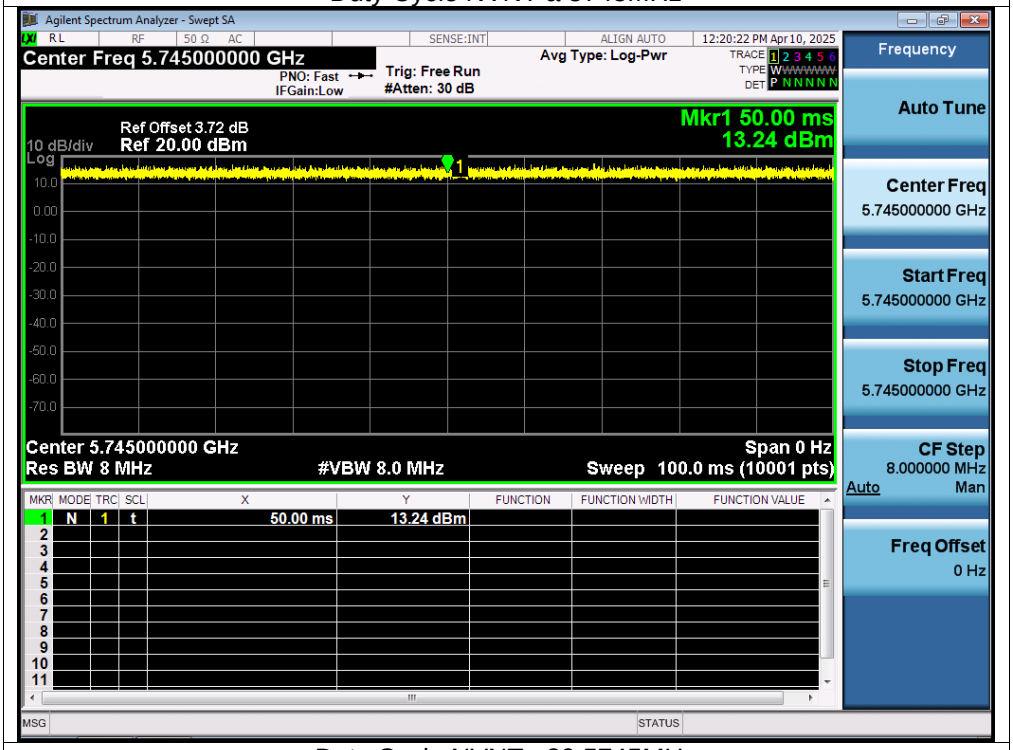
Duty Cycle NVNT ax80 5290MHz



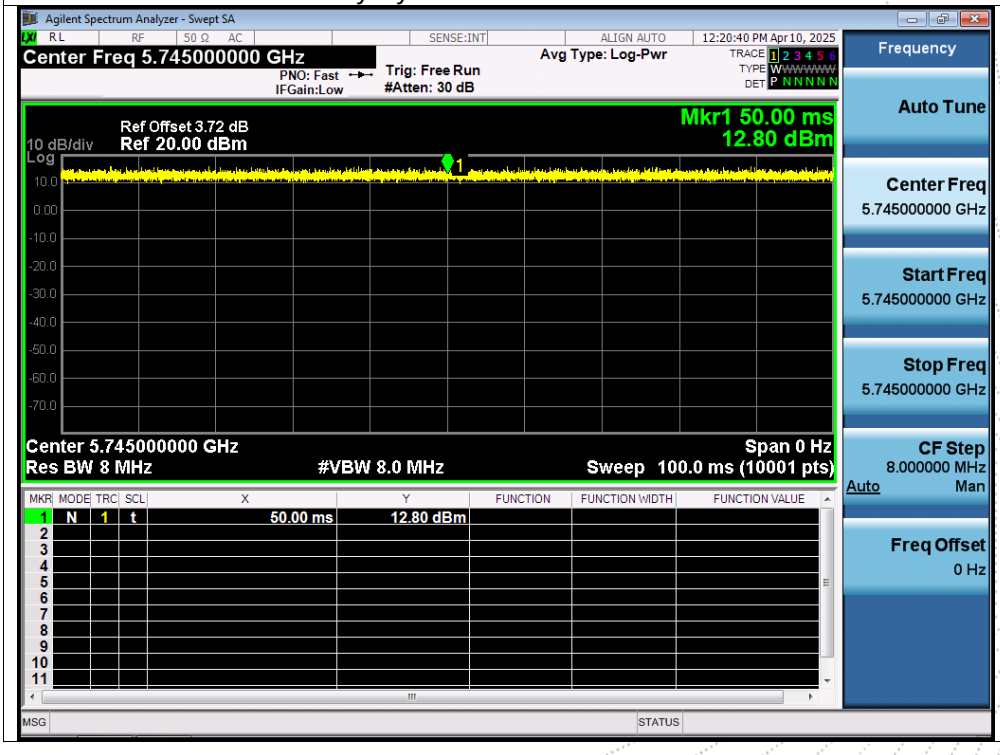
Condition	Mode	Frequency (MHz)	Duty Cycle (%)
NVNT	a	5745	100
NVNT	n20	5745	100
NVNT	n40	5755	100
NVNT	ac20	5745	100
NVNT	ac40	5755	100
NVNT	ac80	5775	100
NVNT	ax20	5745	100
NVNT	ax40	5755	100
NVNT	ax80	5775	100

Test Graphs

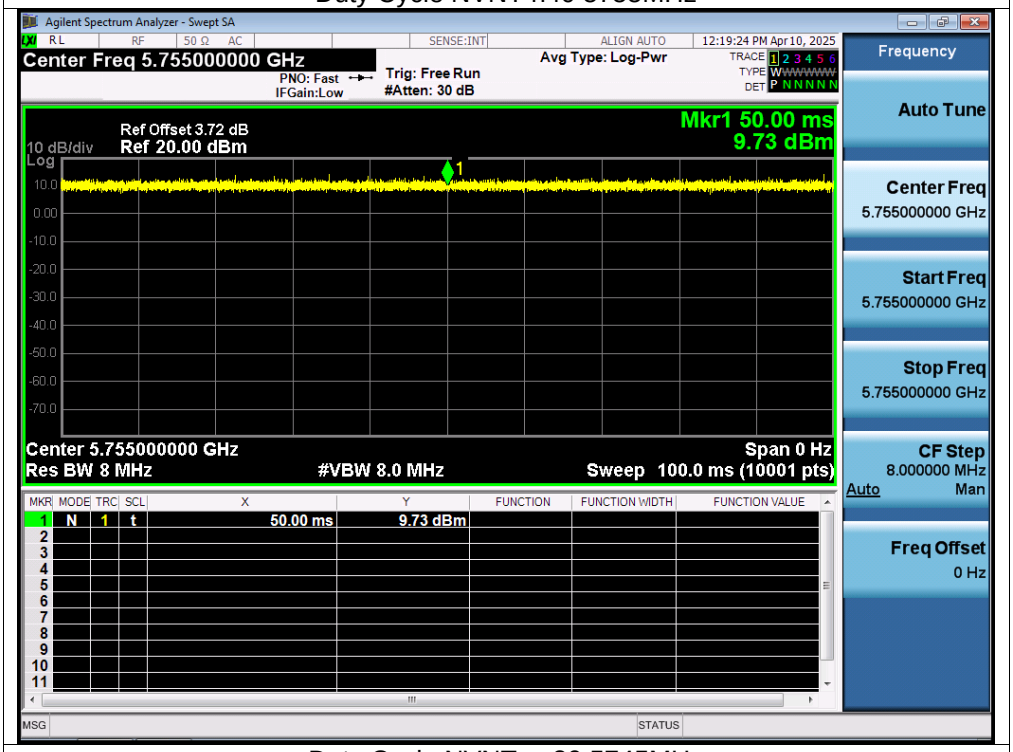
Duty Cycle NVNT a 5745MHz



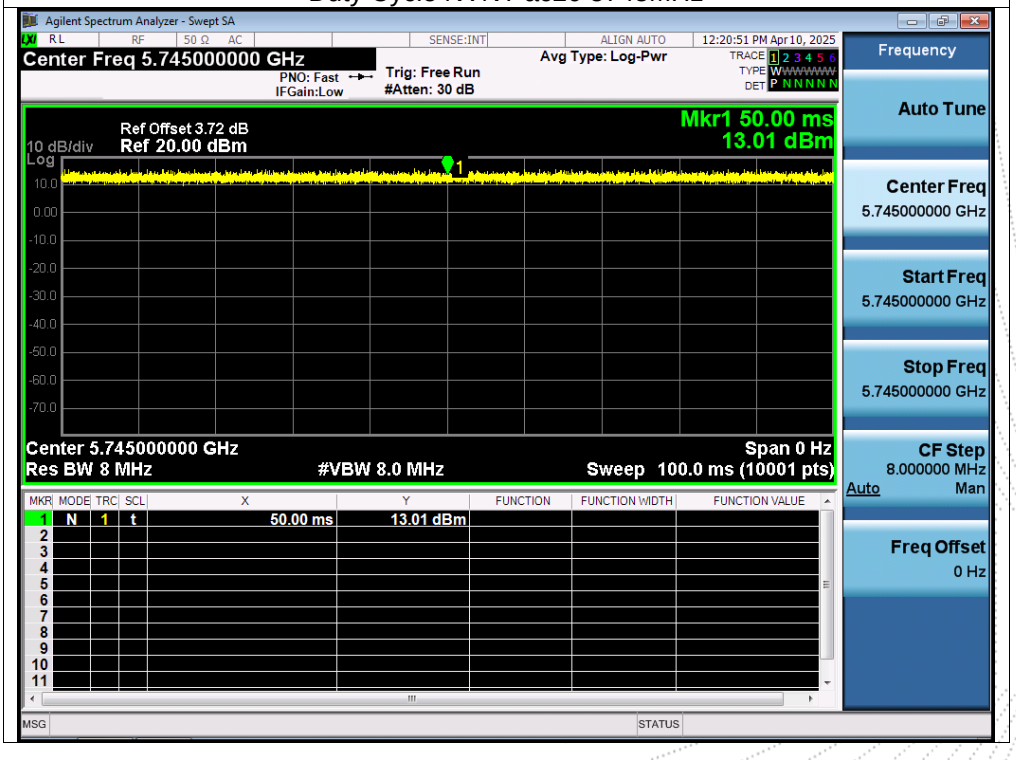
Duty Cycle NVNT n20 5745MHz



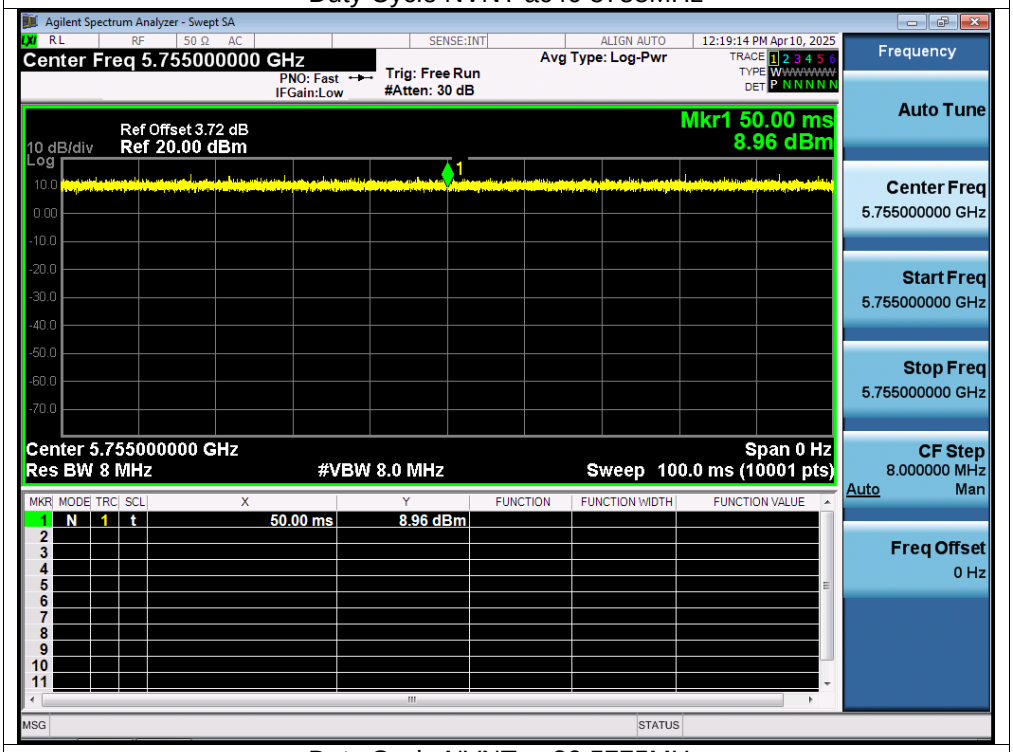
Duty Cycle NVNT n40 5755MHz



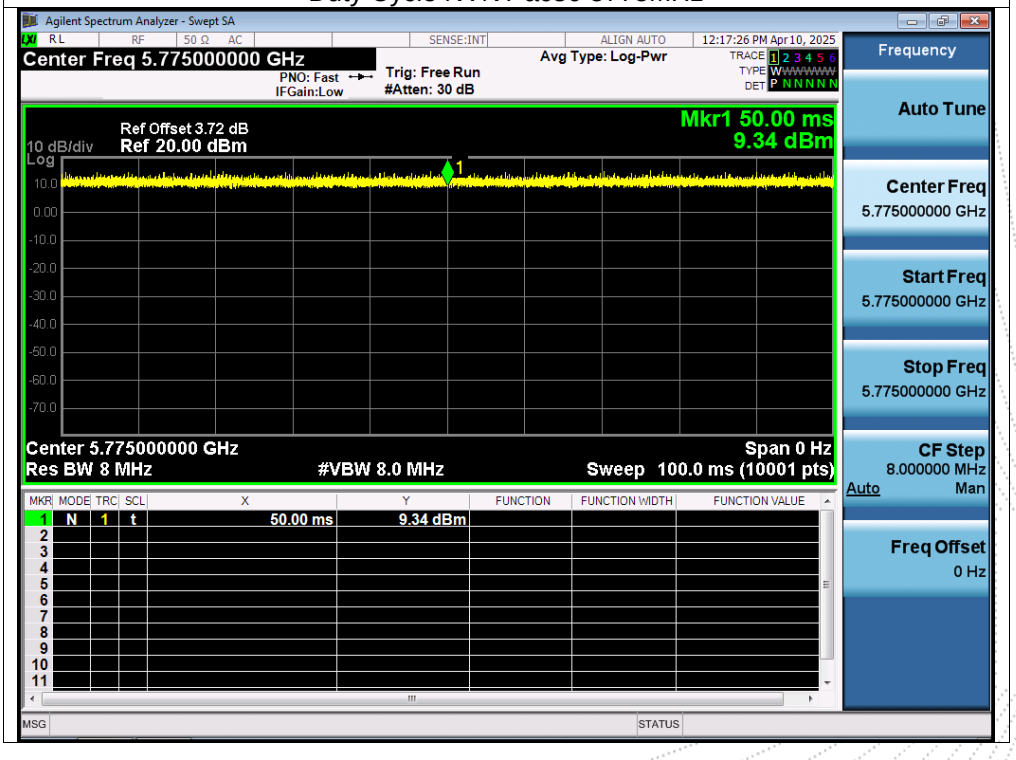
Duty Cycle NVNT ac20 5745MHz



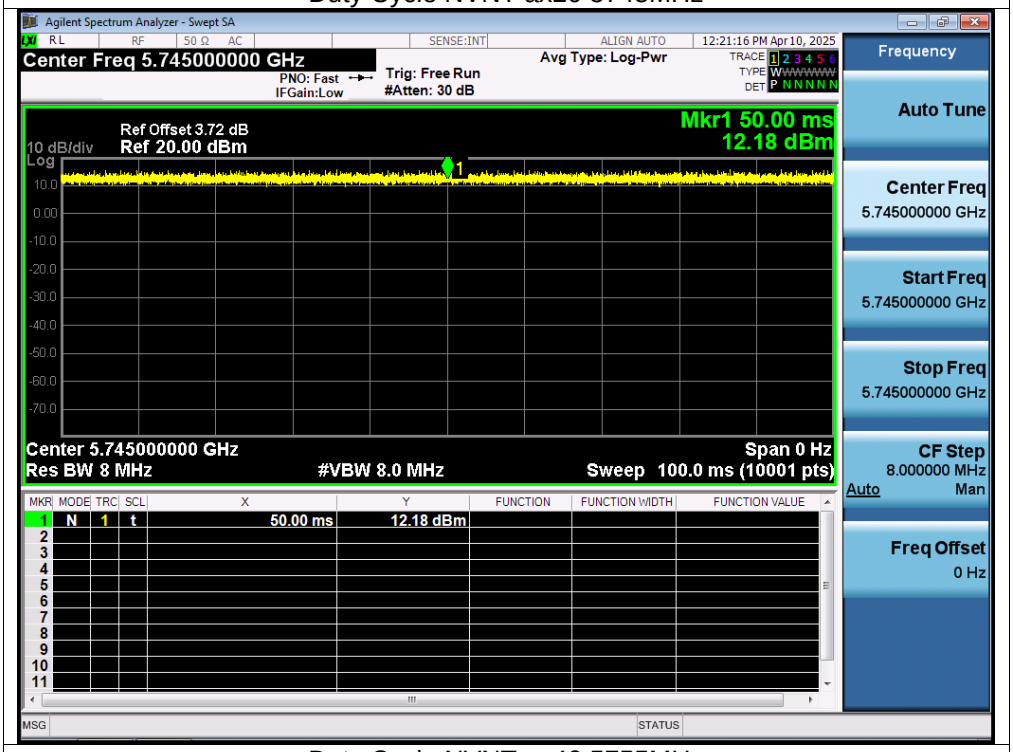
Duty Cycle NVNT ac40 5755MHz



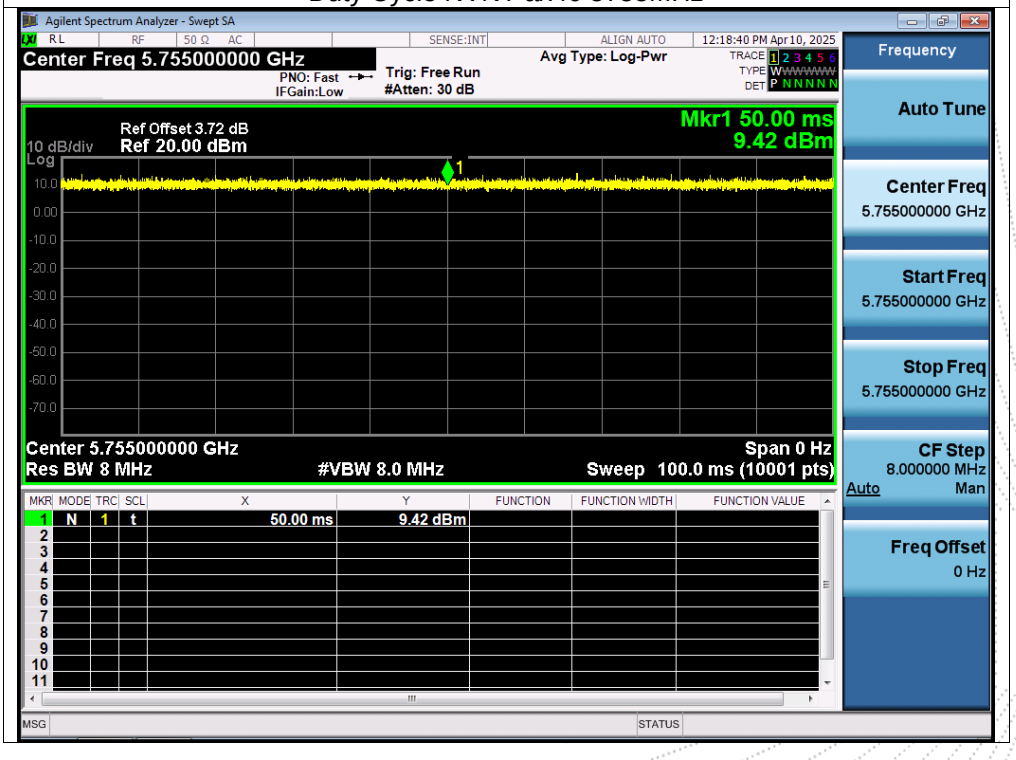
Duty Cycle NVNT ac80 5775MHz



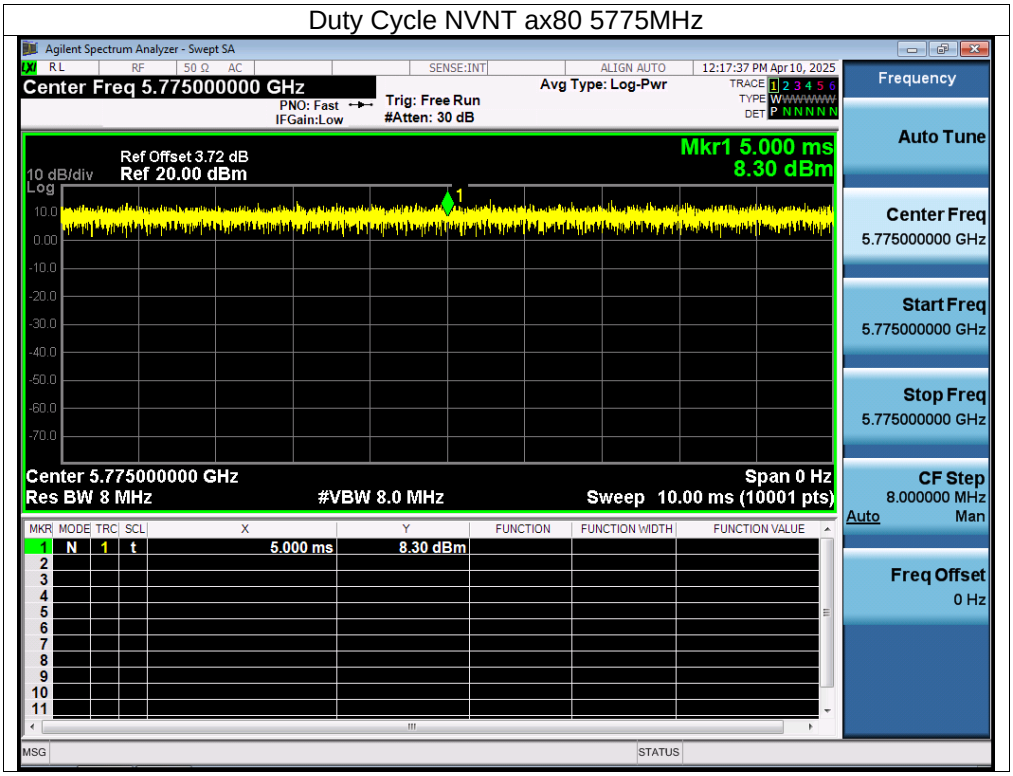
Duty Cycle NVNT ax20 5745MHz



Duty Cycle NVNT ax40 5755MHz



Duty Cycle NVNT ax80 5775MHz



15. Antenna Requirement

15.1 Limit

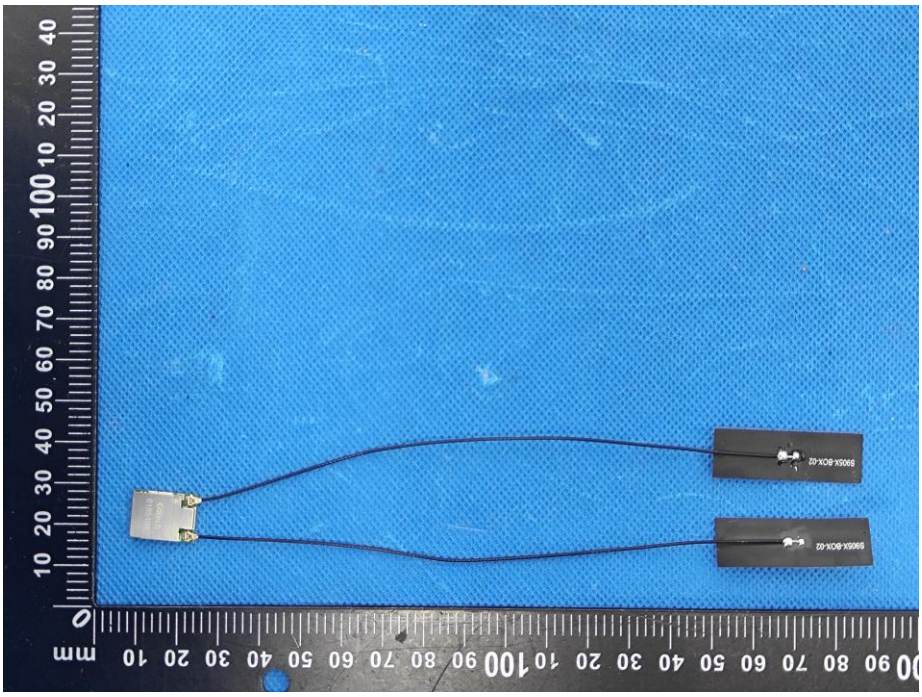
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.2 Test Result

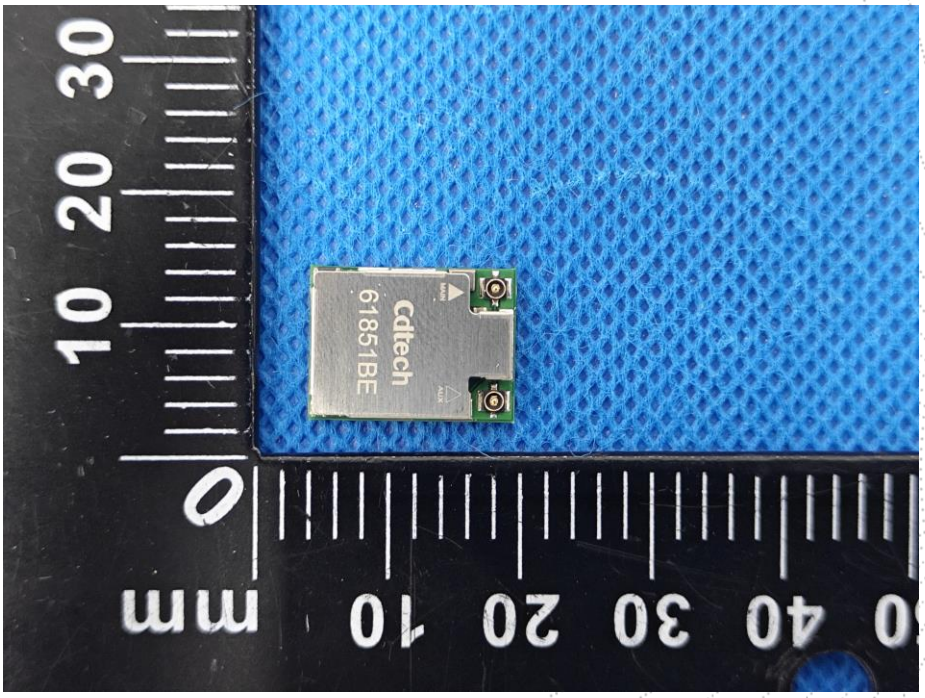
The EUT antenna is FPC antenna, antenna connector type is IPEX, fulfill the requirement of this section.

16. EUT Photographs

EUT Photo 1



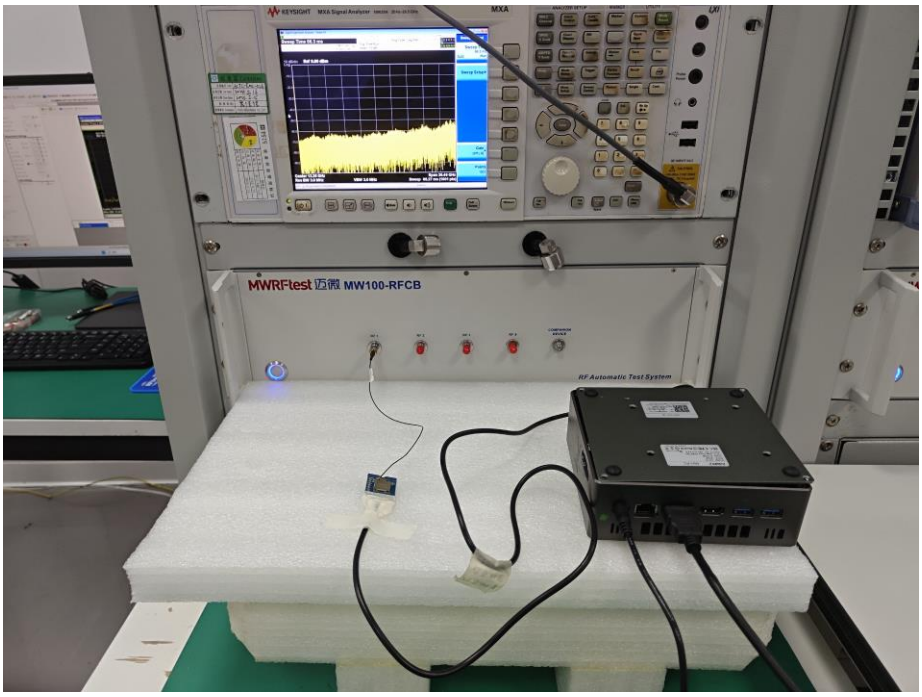
EUT Photo 2

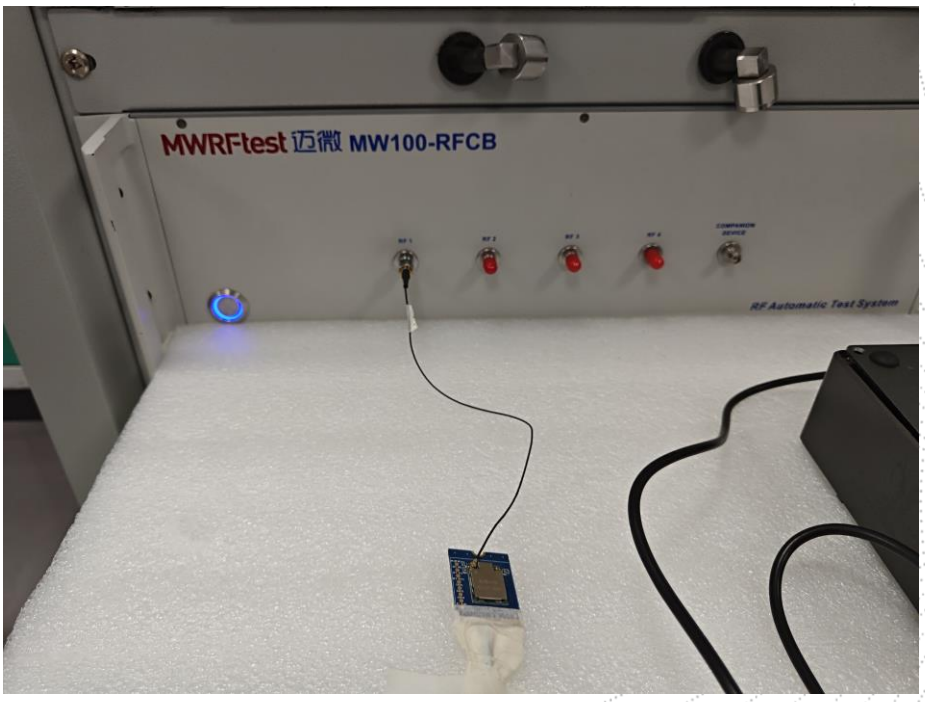


NOTE: Appendix-Photographs Of EUT Constructional Details.

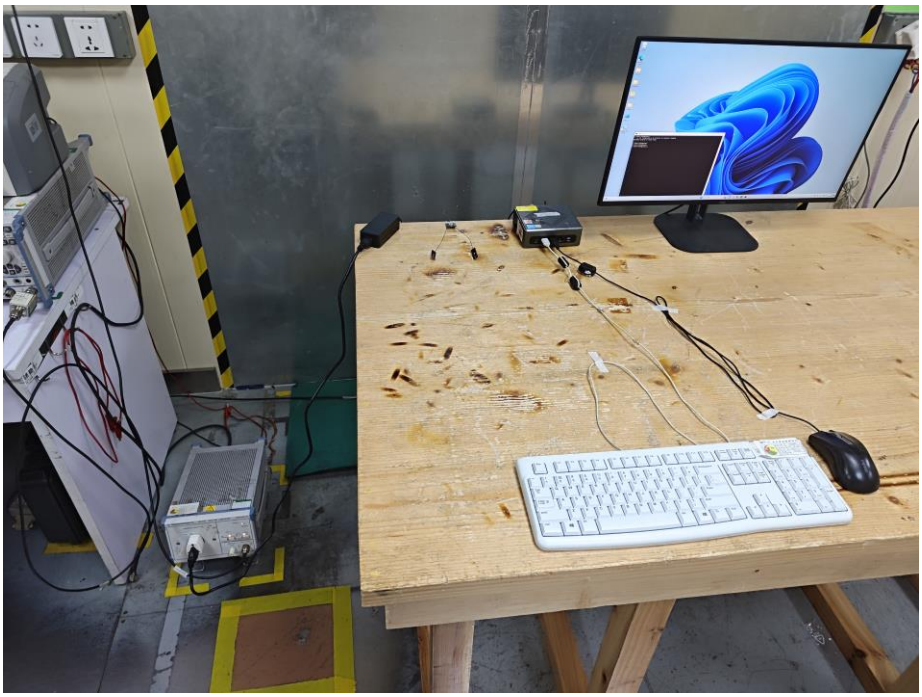
17. EUT Test Setup Photographs

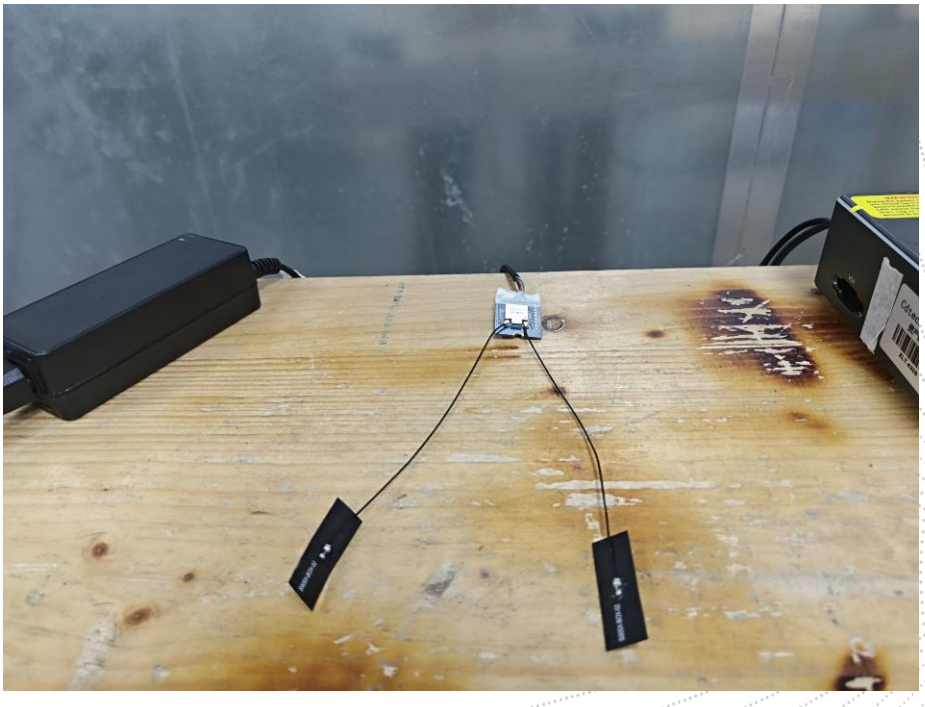
RF Conducted Measurement Photos



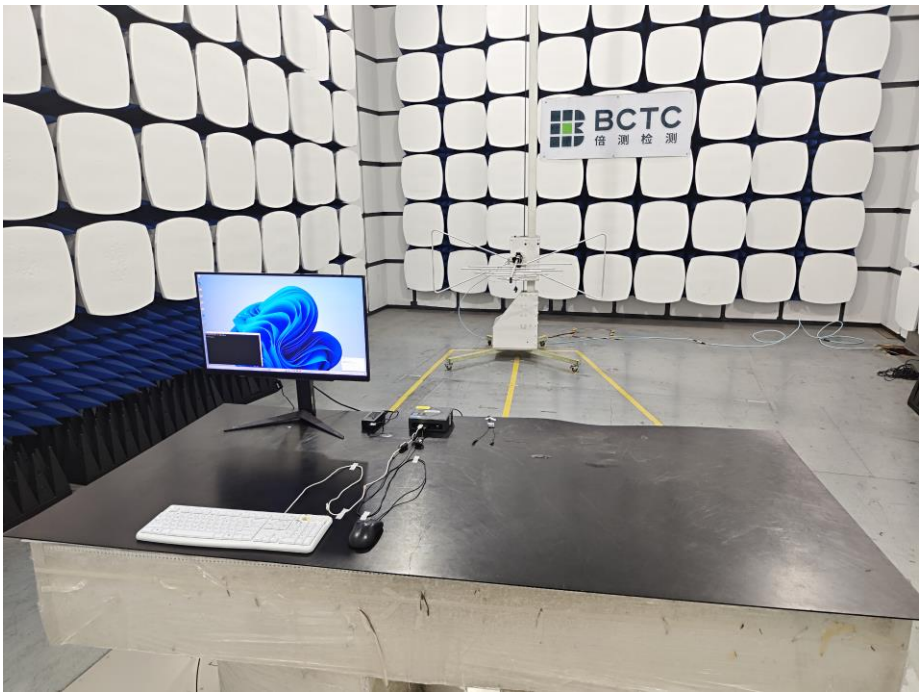


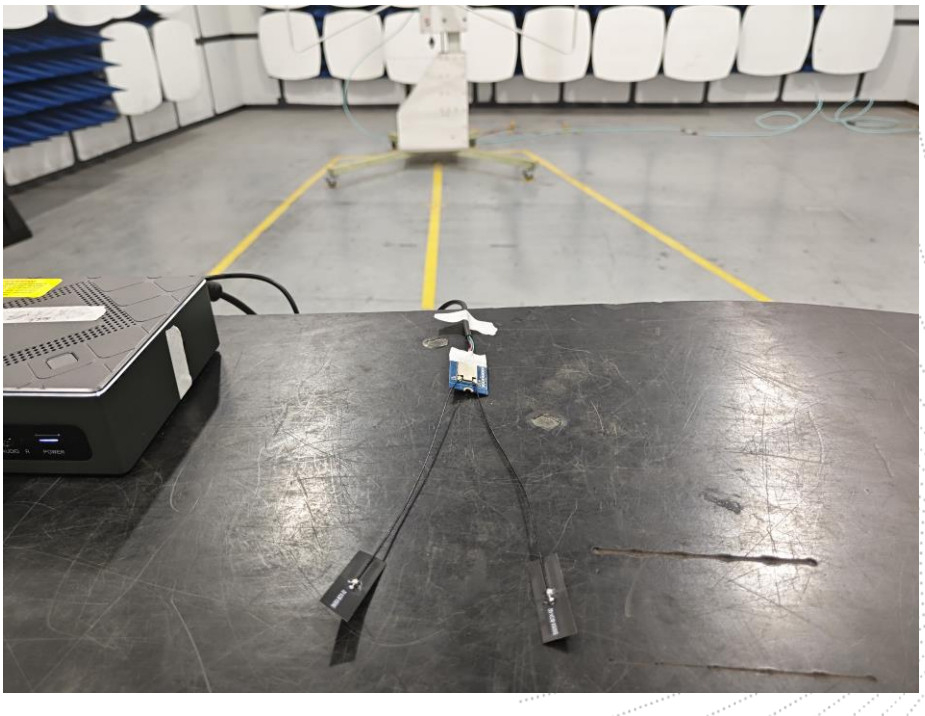
Conducted Emissions Photos



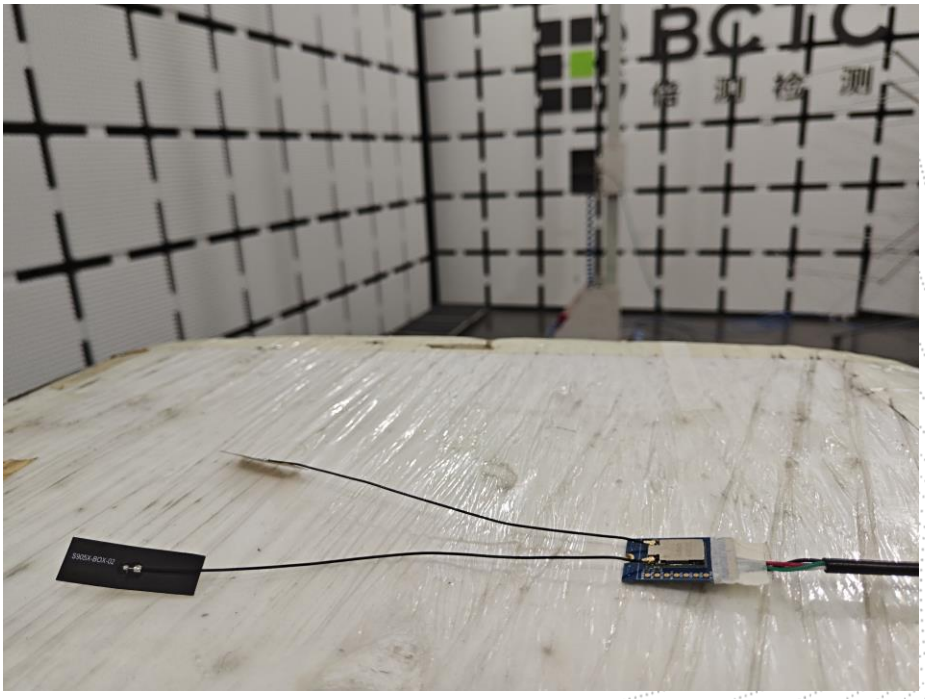


Radiated Measurement Photos






BCTC
倍 测 检 测


BCTC
倍 测 检 测

STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:
1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

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