

### 13. Duty Cycle Of Test Signal

#### 13.1 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.

#### 13.2 Formula

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

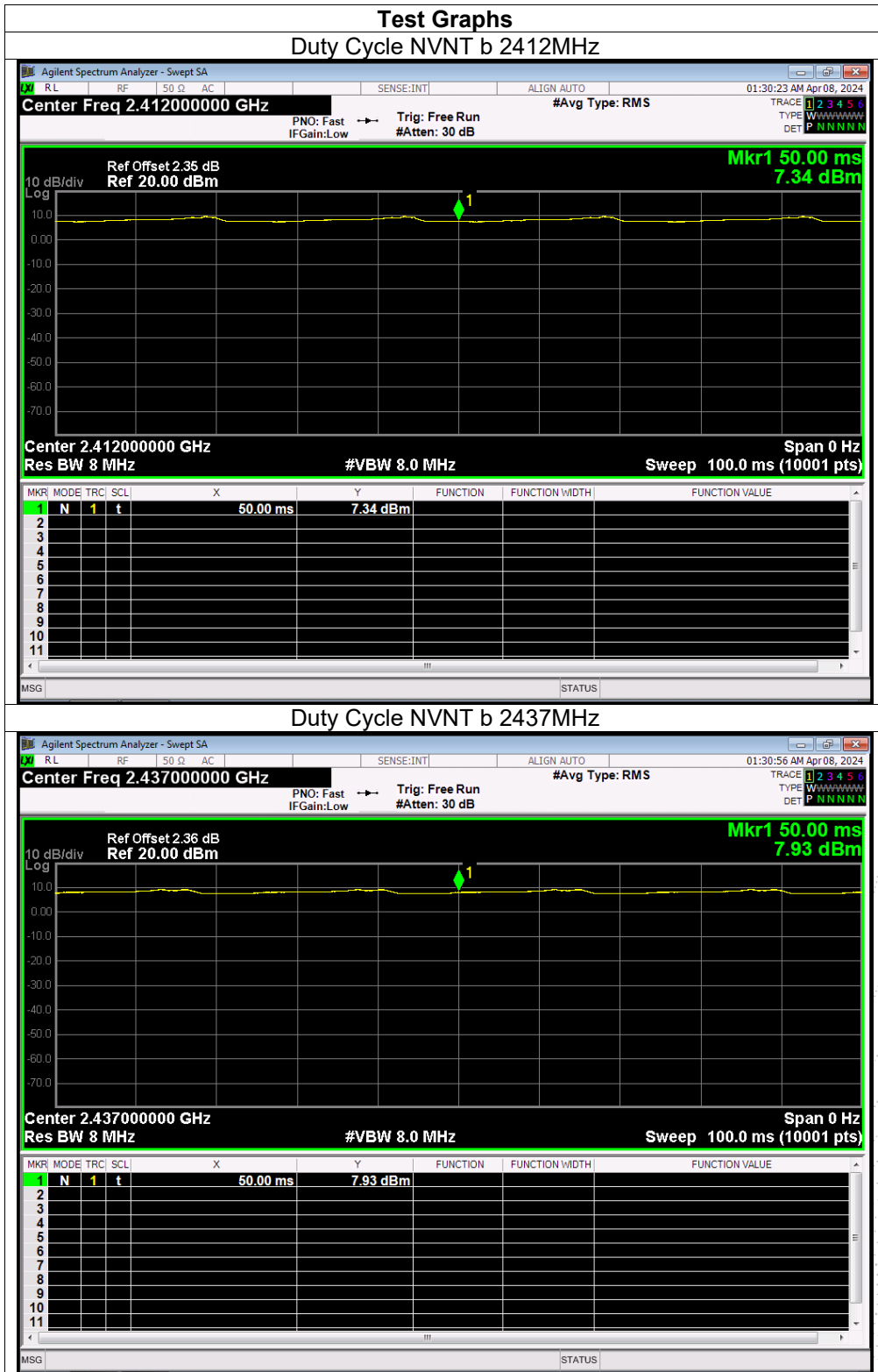
#### 13.3 Test Procedure

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

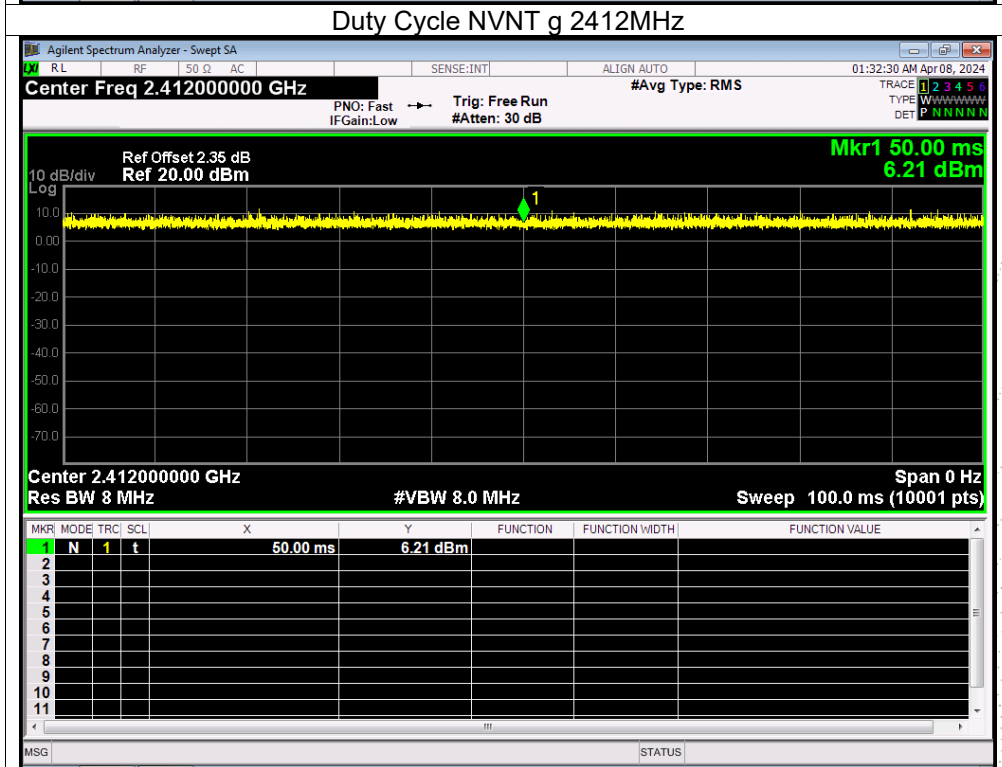
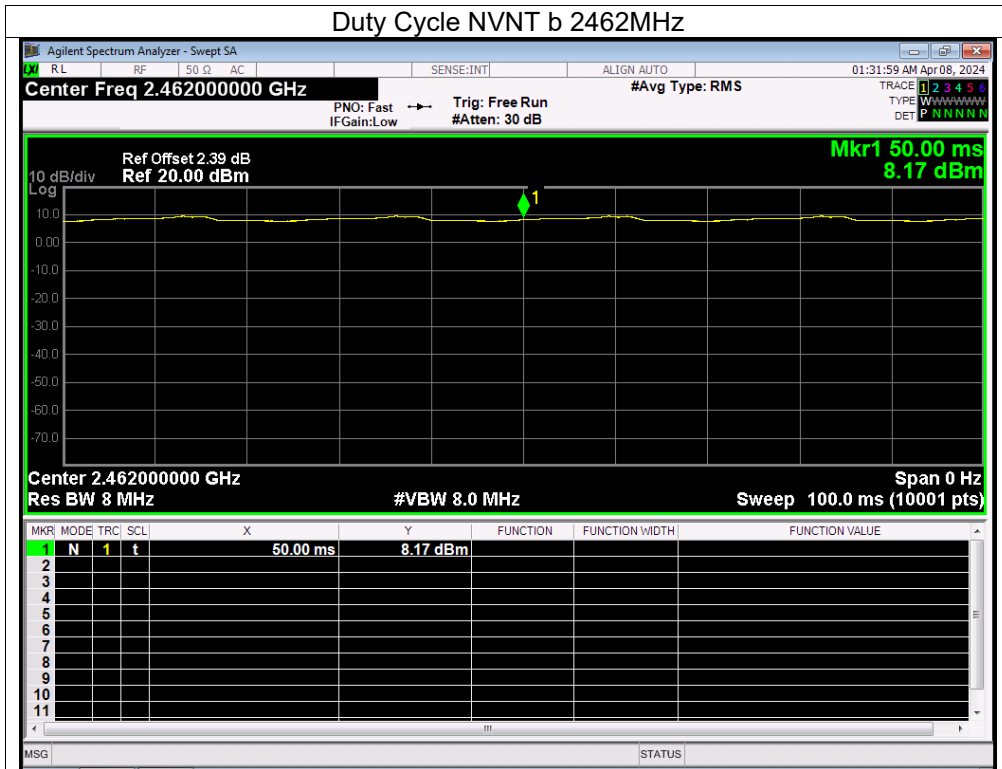
#### 13.4 Test Result

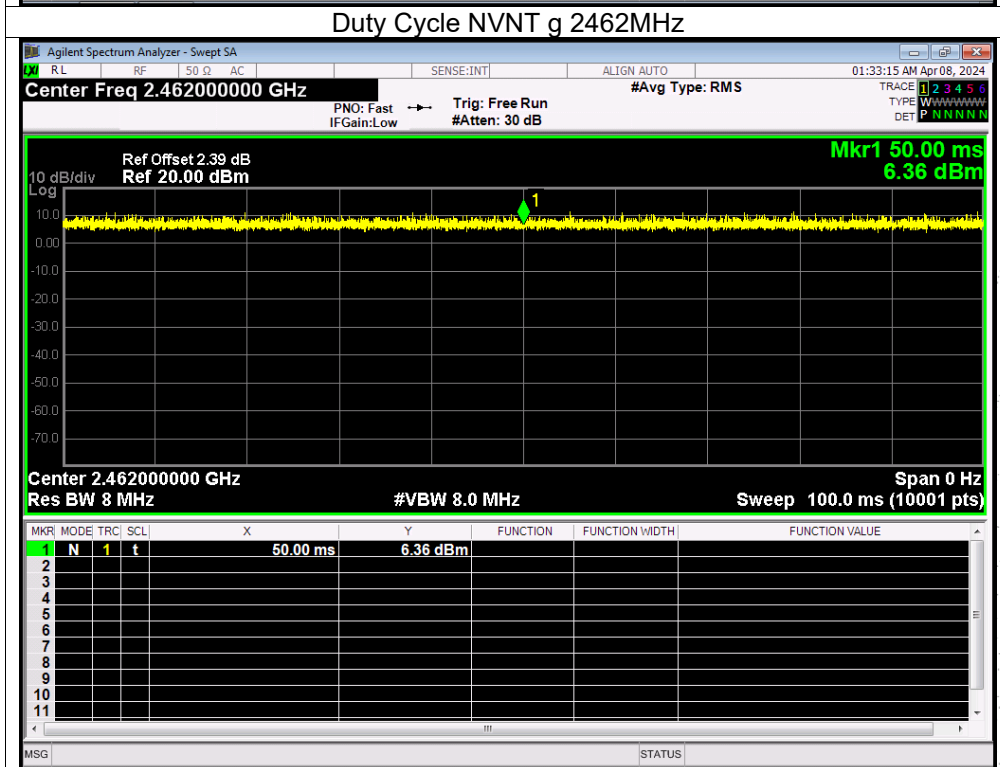
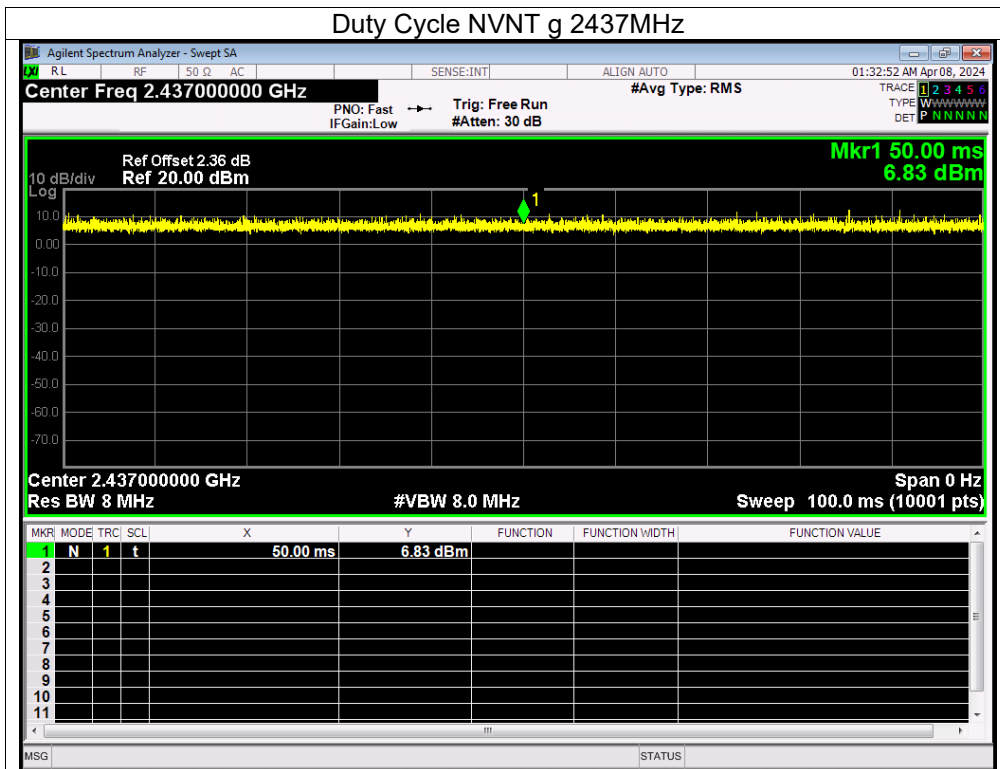
Only shows ANT B, The worst case

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	AntA	100	0	0
NVNT	b	2437	AntA	100	0	0
NVNT	b	2462	AntA	100	0	0
NVNT	g	2412	AntA	100	0	0
NVNT	g	2437	AntA	100	0	0
NVNT	g	2462	AntA	100	0	0
NVNT	n20	2412	AntA	100	0	0
NVNT	n20	2437	AntA	100	0	0
NVNT	n20	2462	AntA	100	0	0
NVNT	n40	2422	AntA	100	0	0
NVNT	n40	2437	AntA	100	0	0
NVNT	n40	2452	AntA	100	0	0

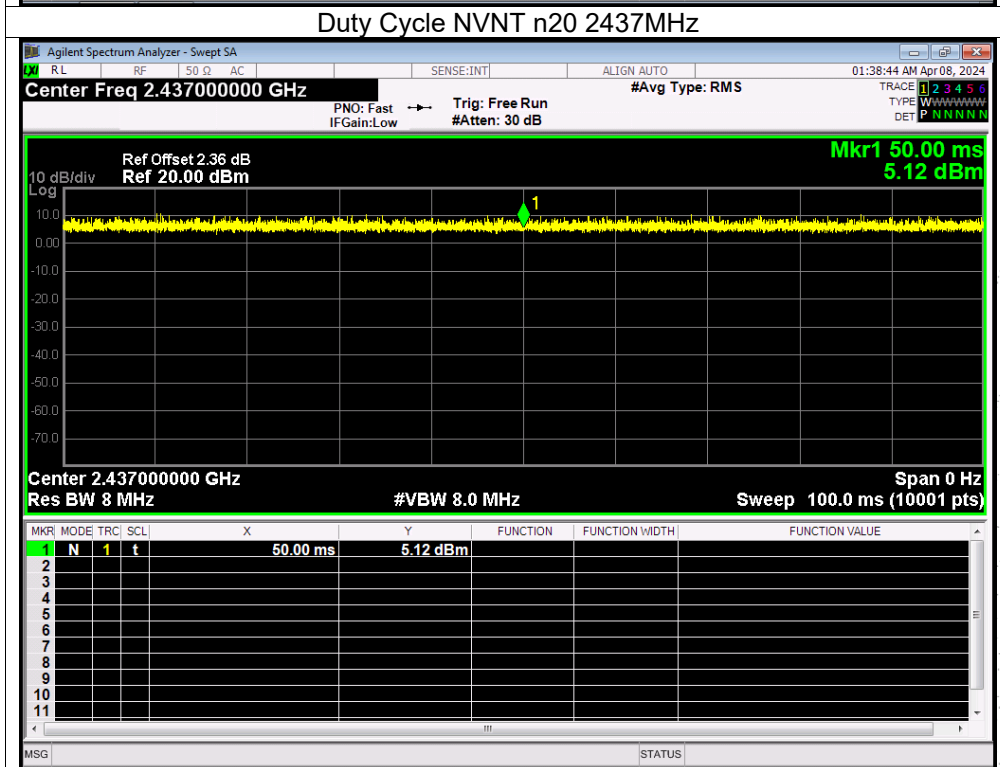
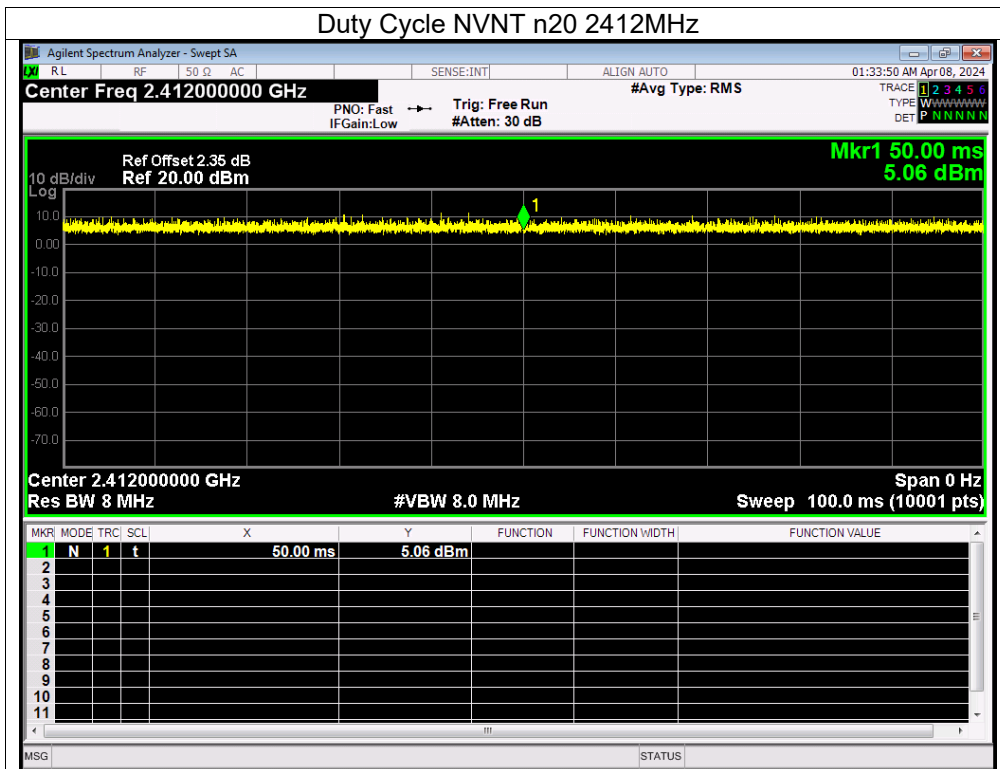


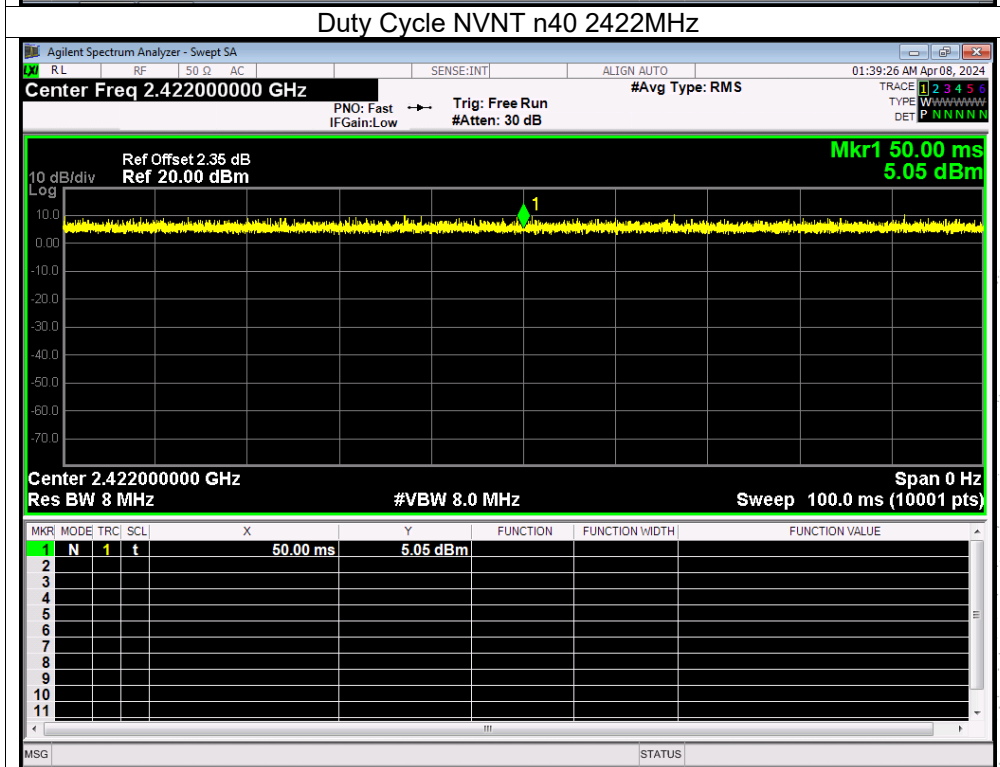
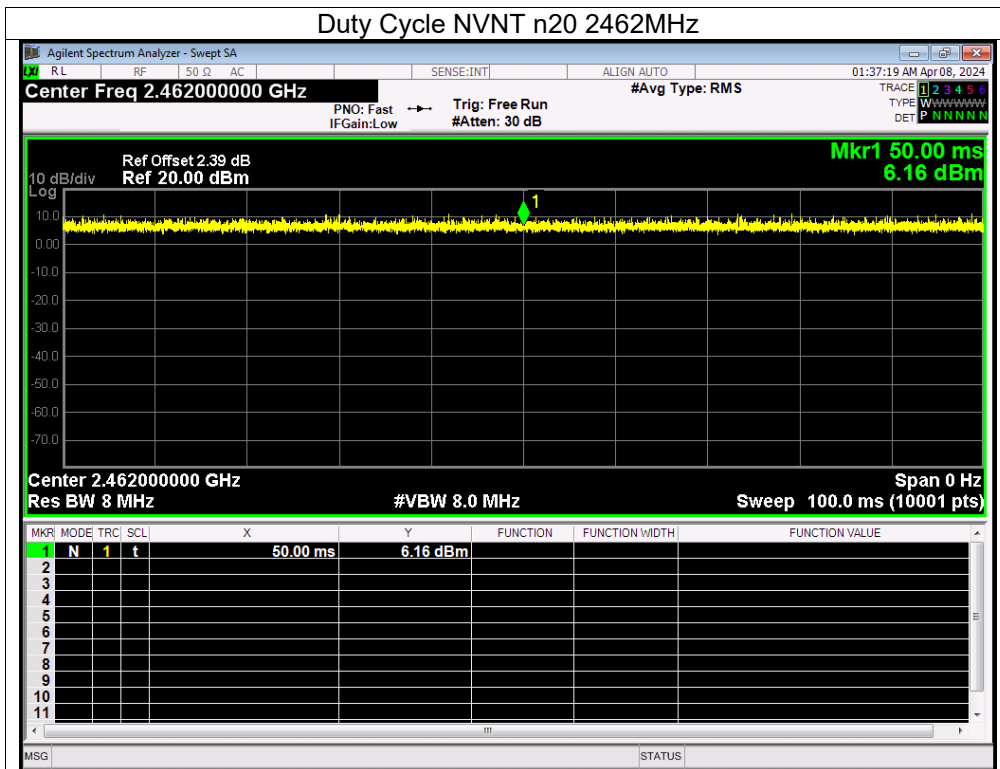
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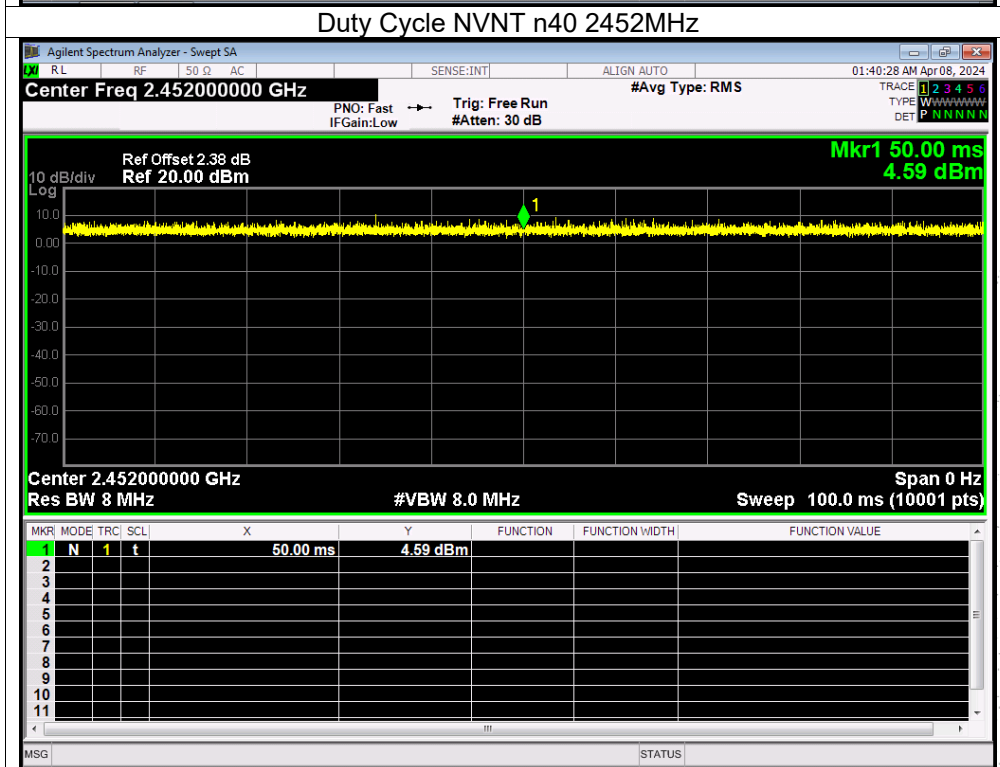
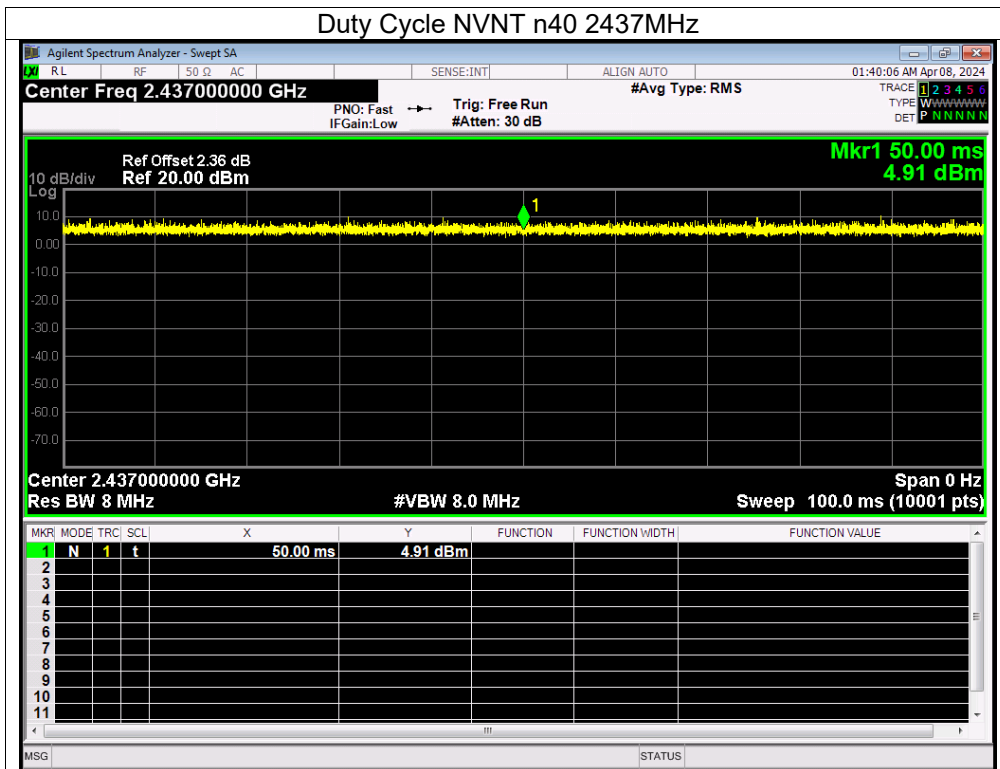


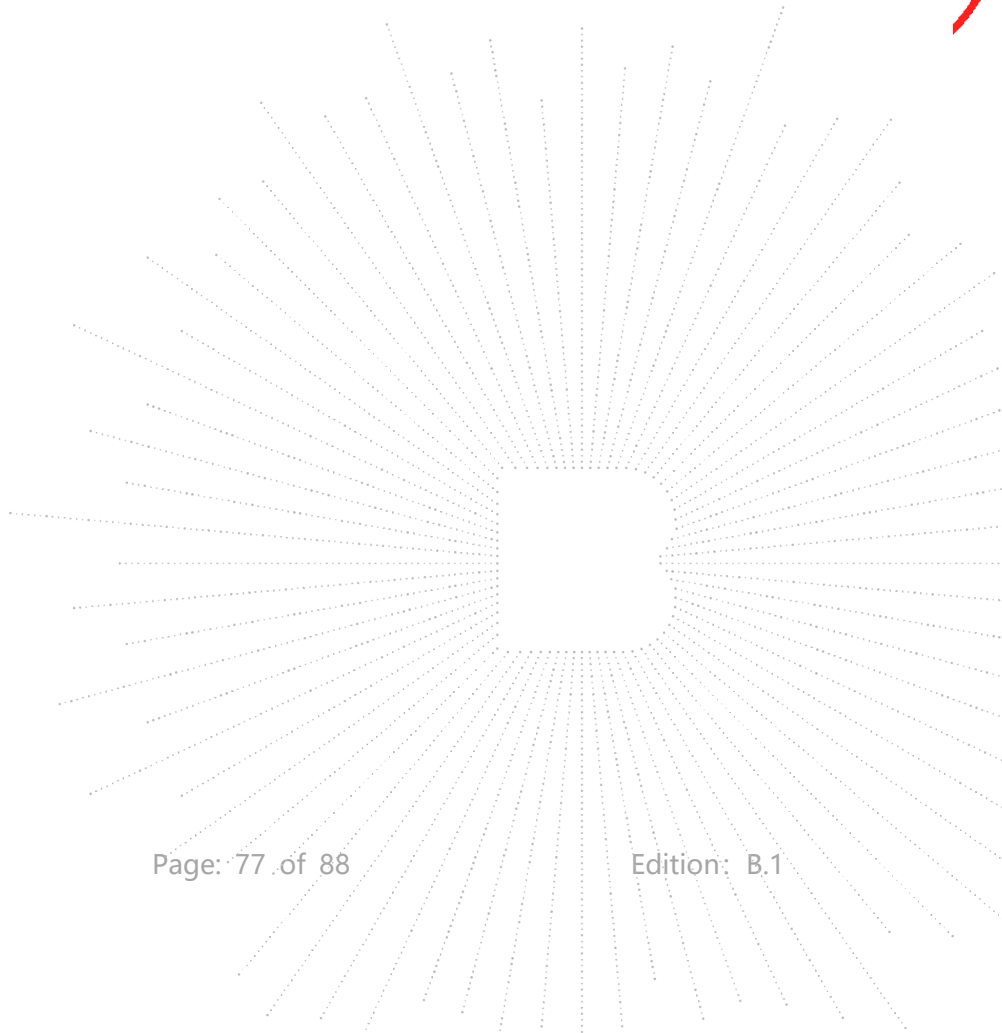


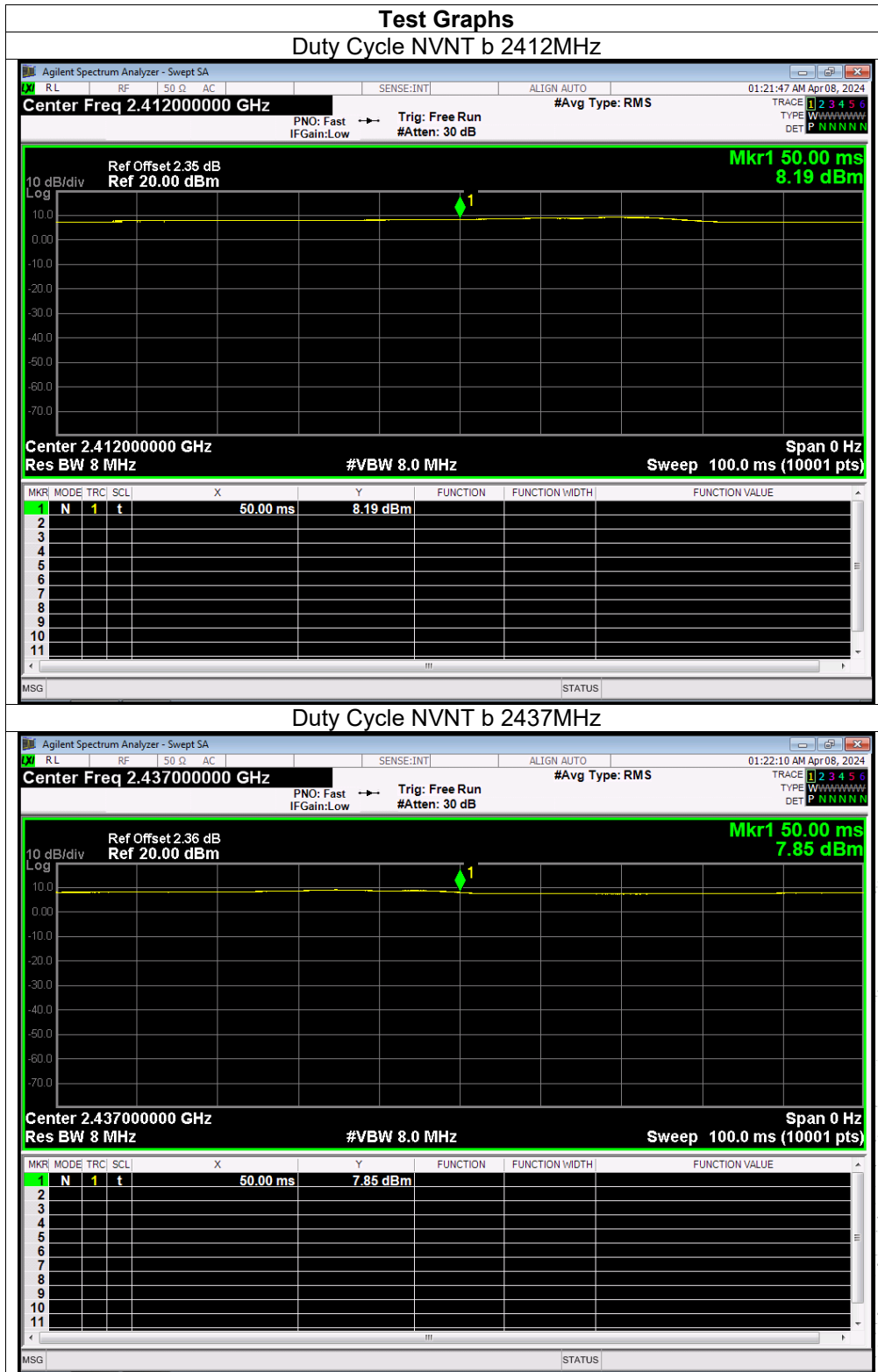




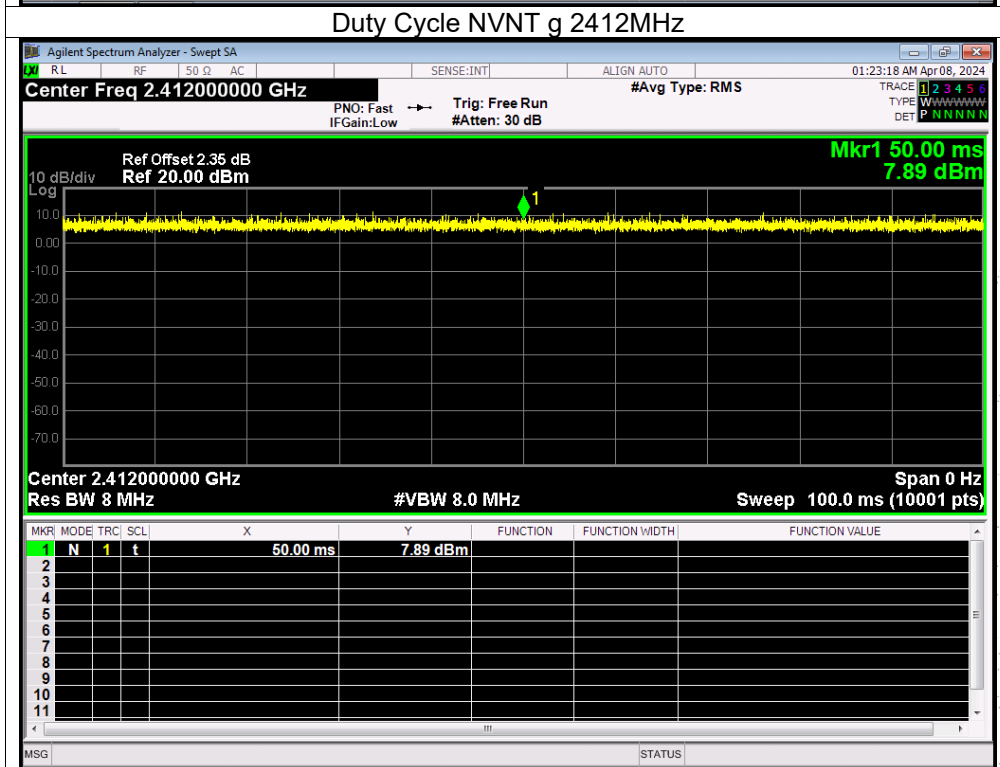
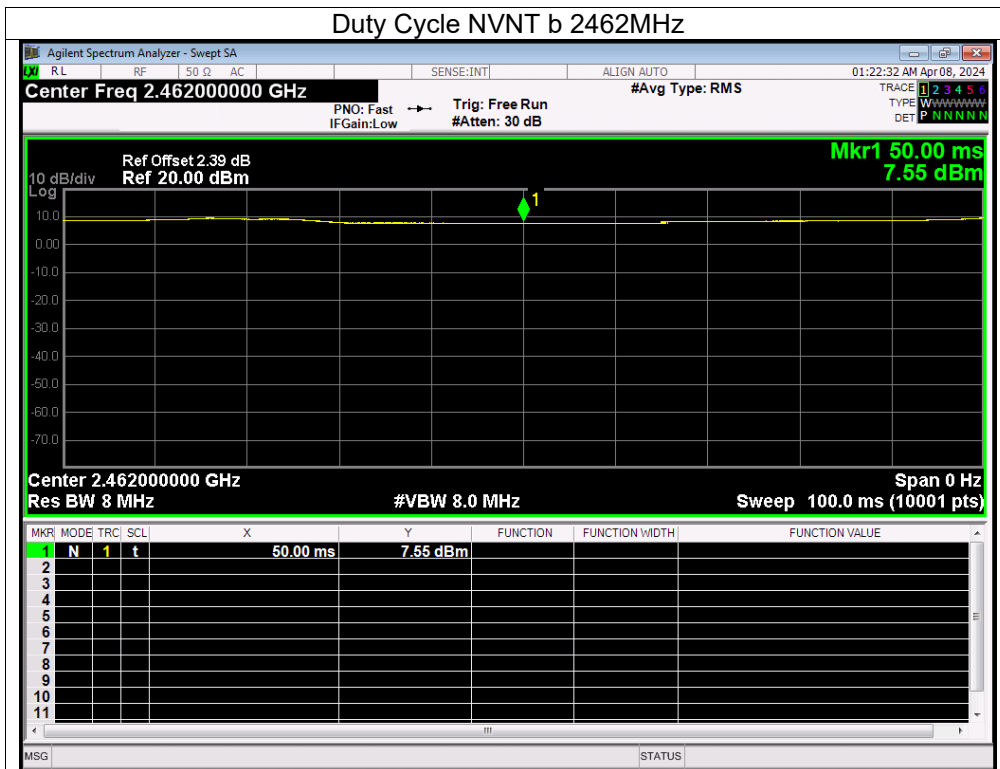


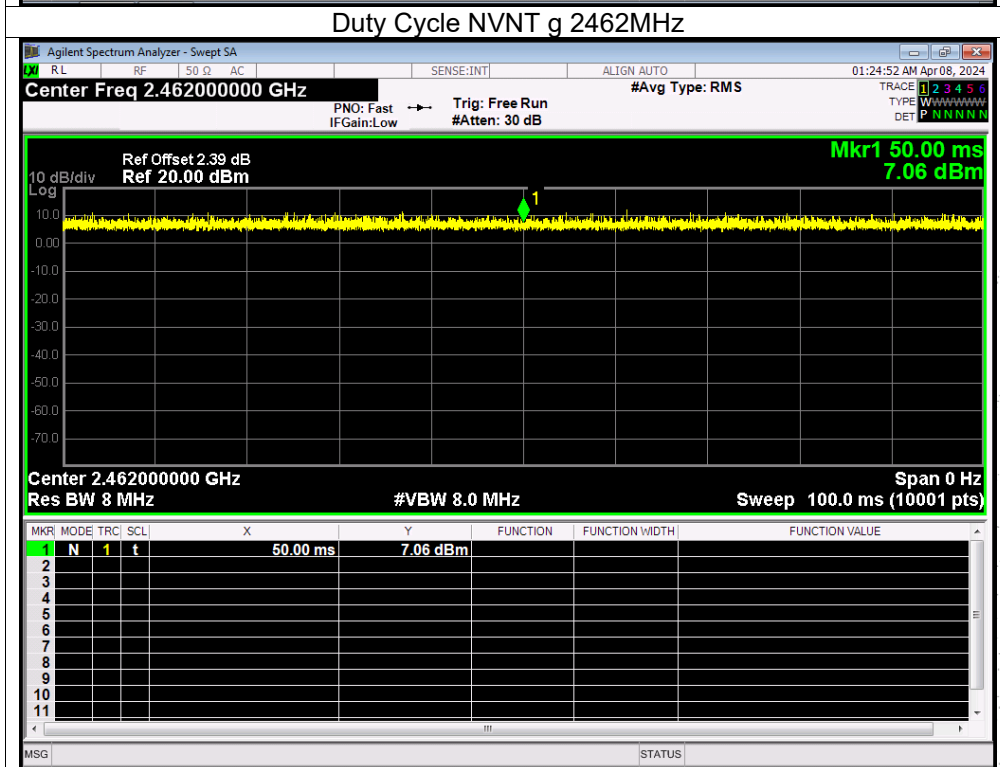
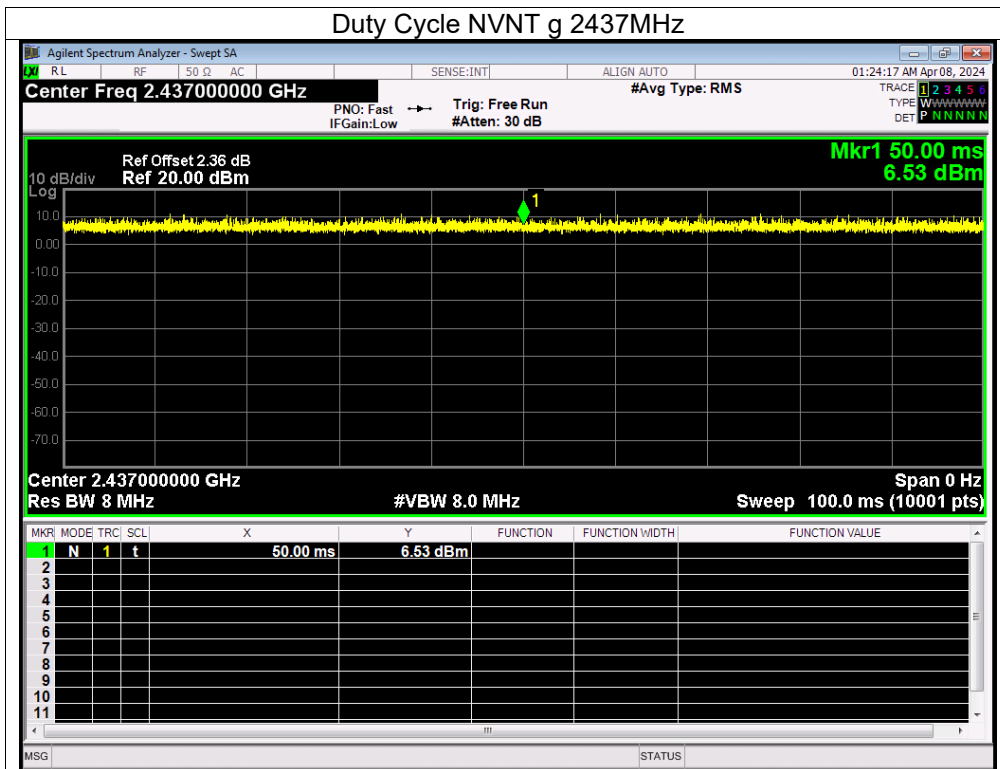
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
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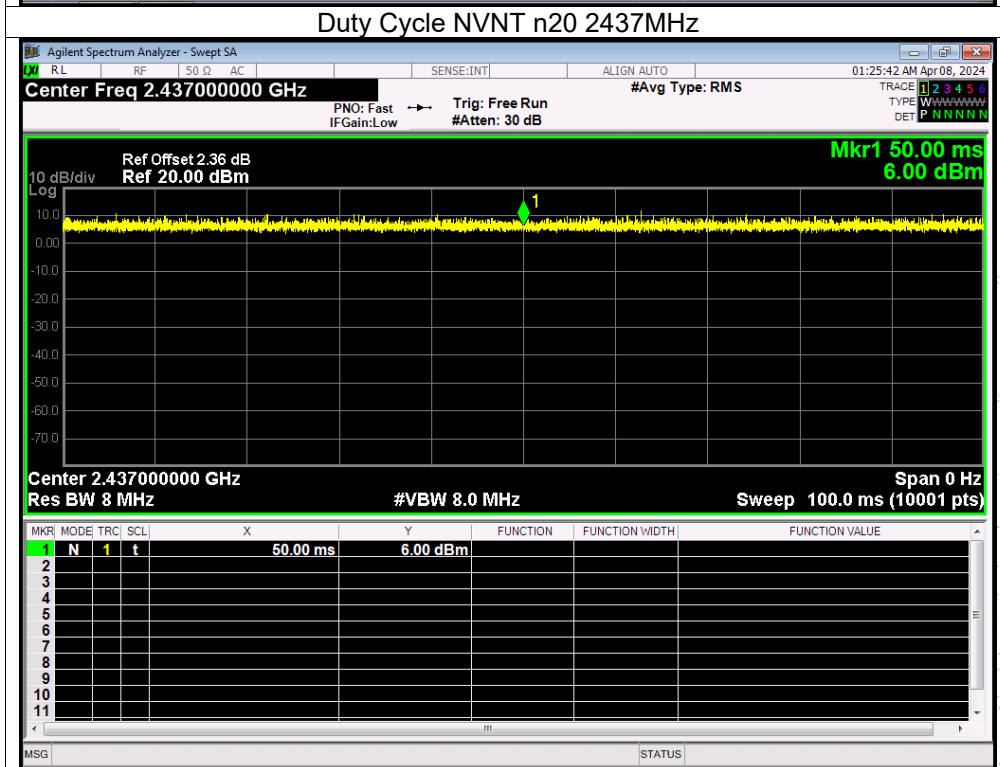
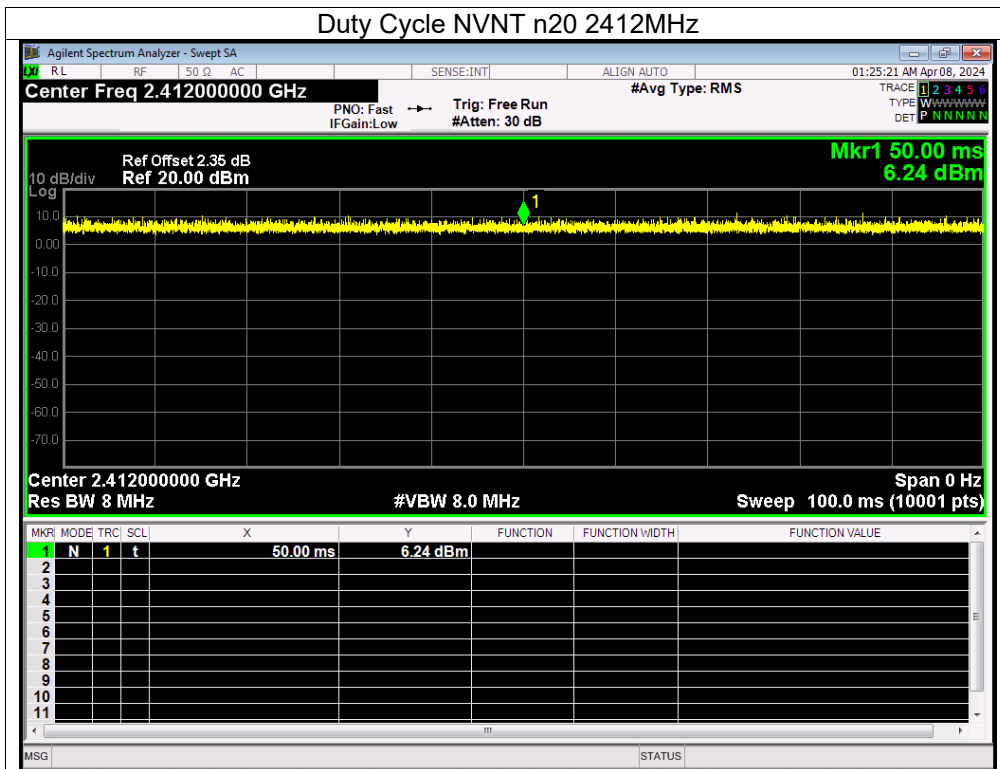





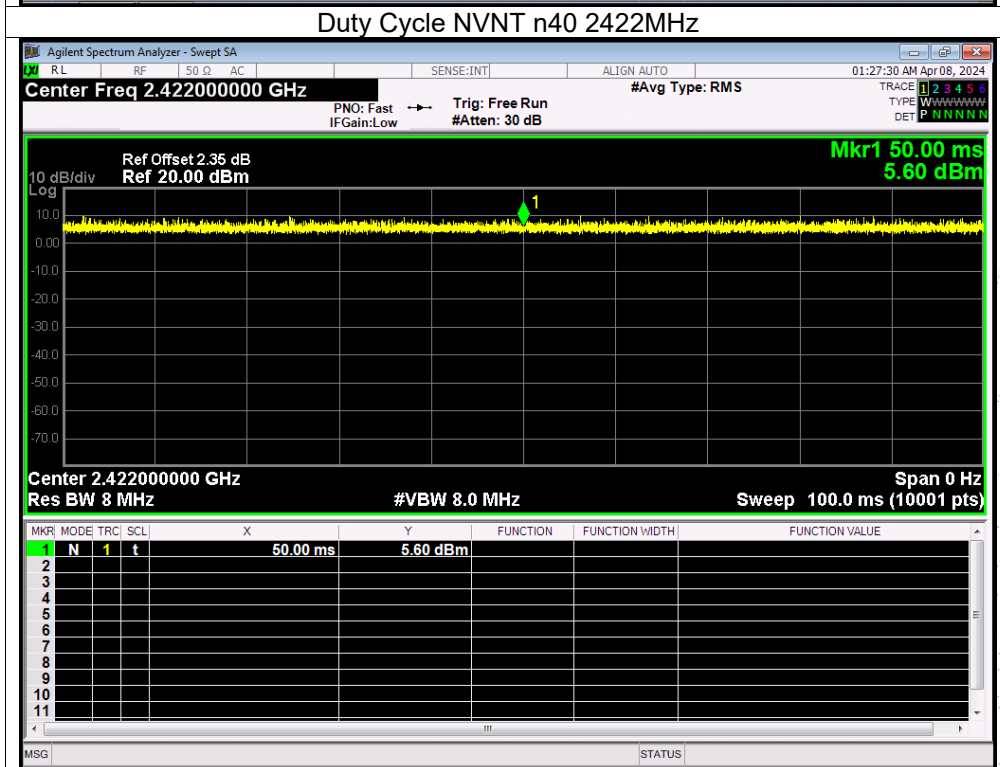
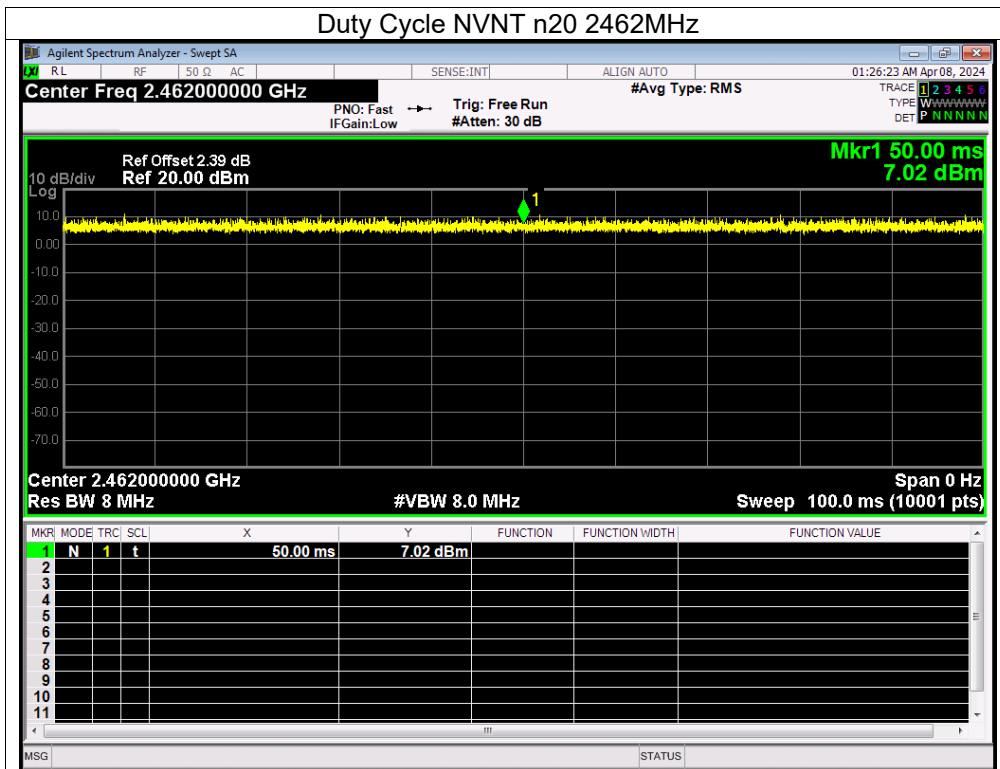
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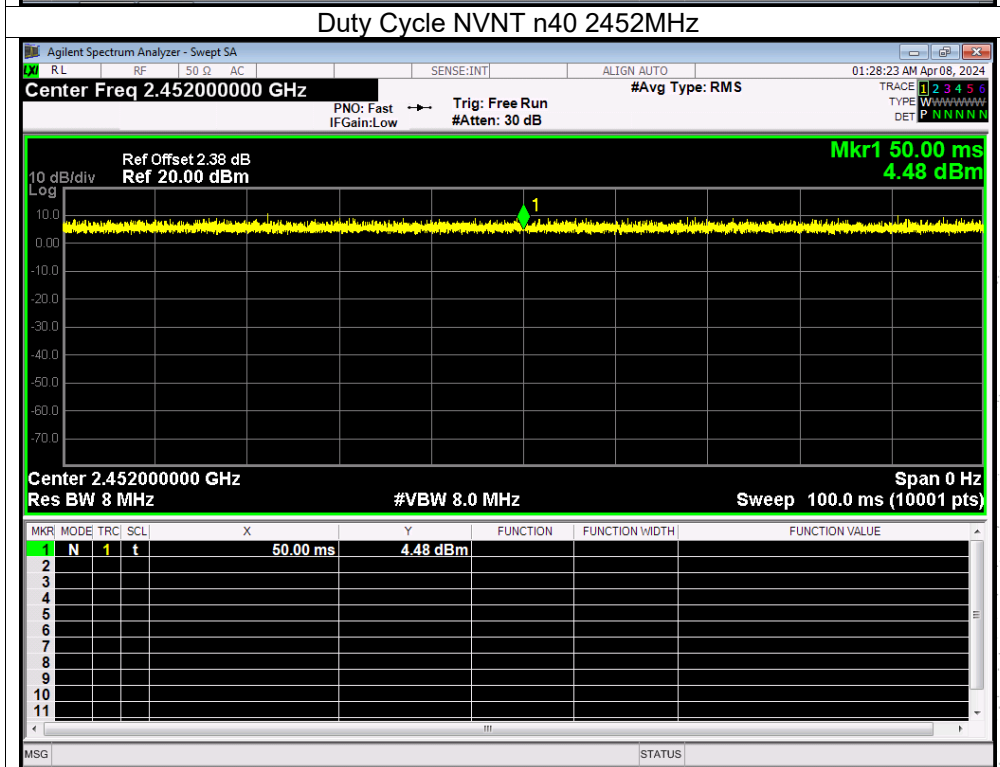
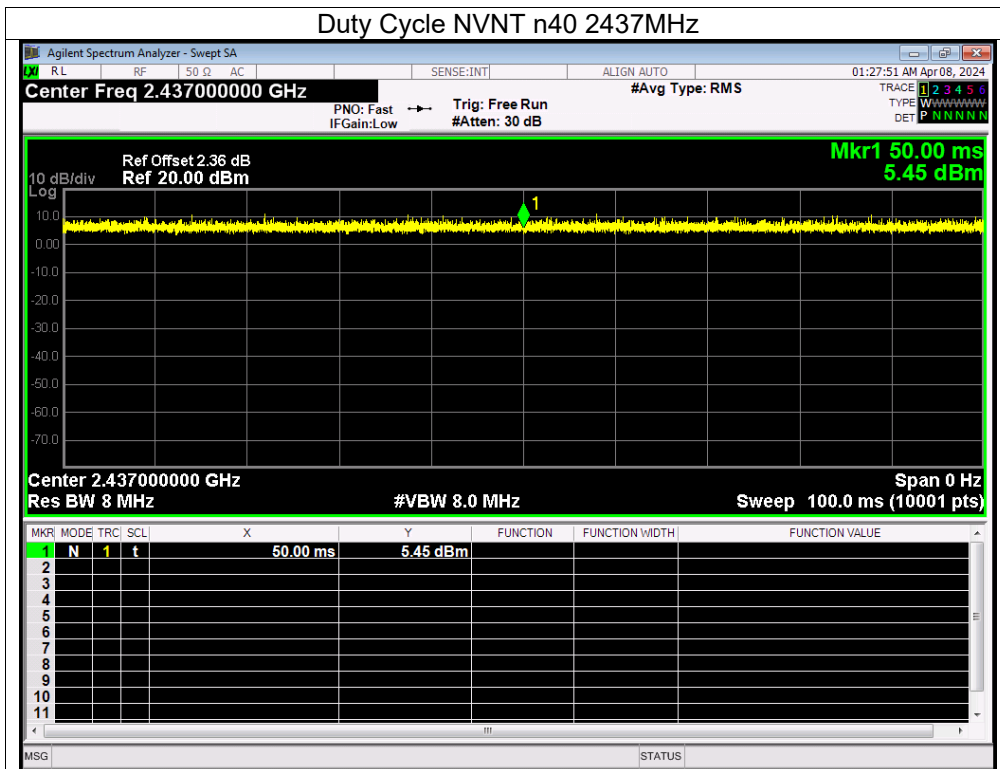












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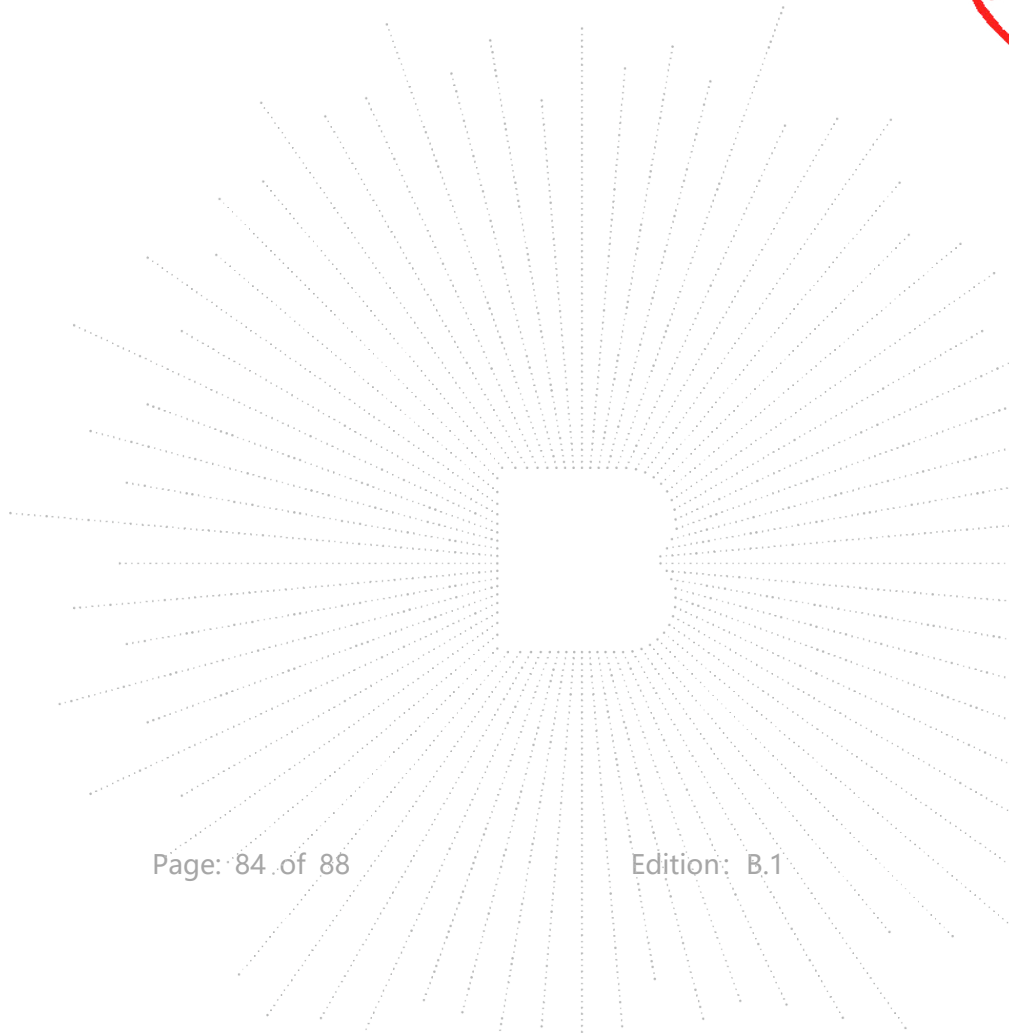
## 14. Antenna Requirement

### 14.1 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.

### 14.1 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.



### 15. EUT Photographs

EUT Photo 1



EUT Photo 2

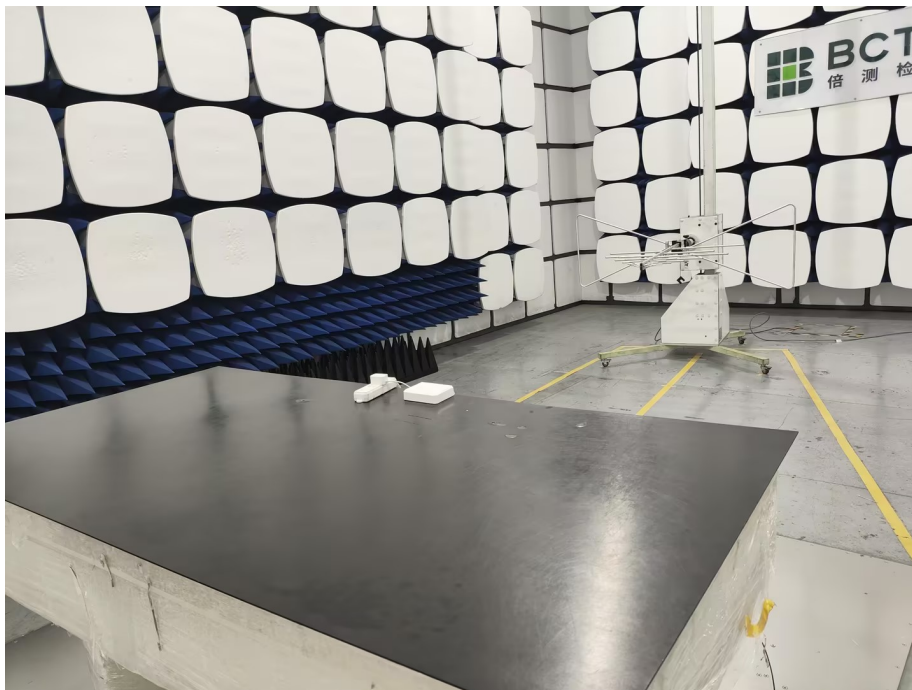


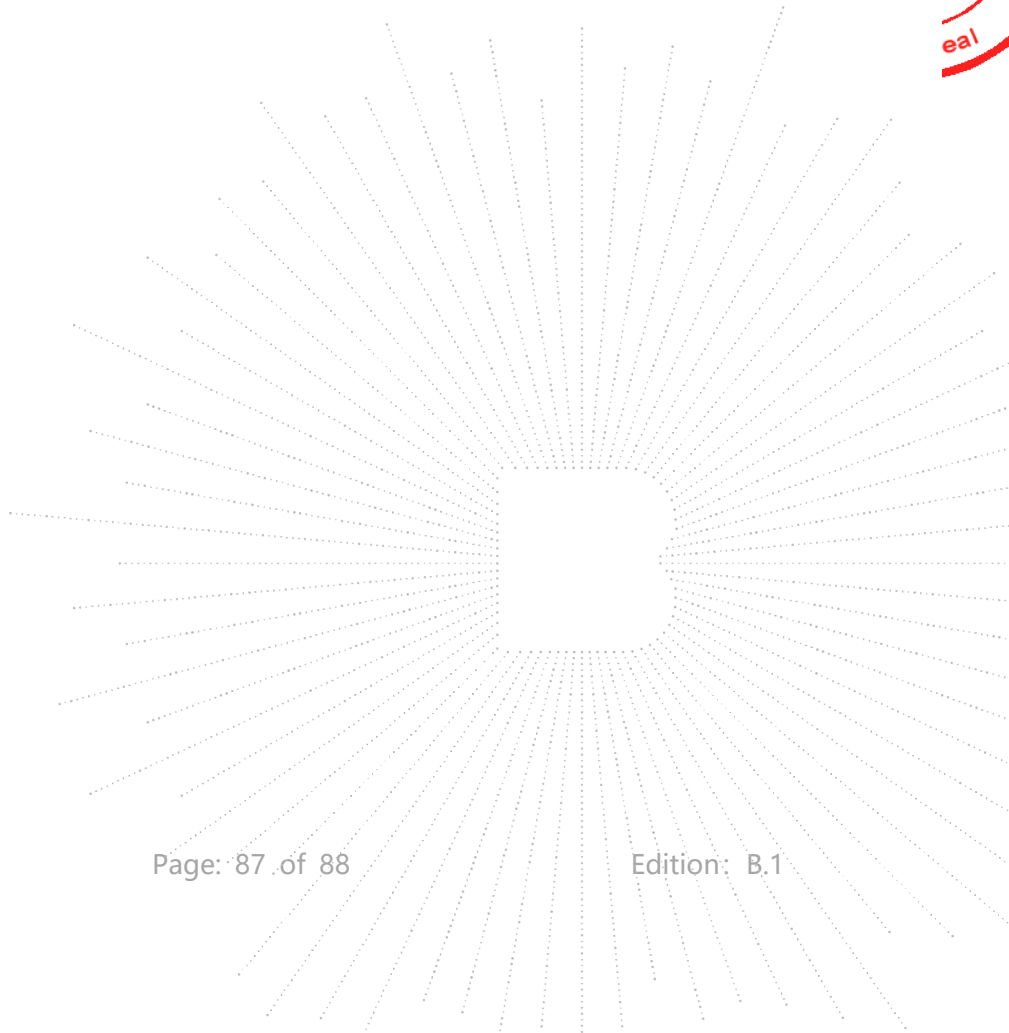
### 16. EUT Test Setup Photographs

#### Conducted Emissions Photo



#### Radiated Measurement Photos





**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.

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P.C.: 518103

FAX: 0755-33229357

Website: <http://www.chnbctc.com>E-Mail: [bctc@bctc-lab.com.cn](mailto:bctc@bctc-lab.com.cn)

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