











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

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

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

13.4 Test Result

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	100	0	0
NVNT	g	2412	100	0	0
NVNT	n20	2412	100	Q	0
NVNT	n40	2422	100	0	0
NVNT	ax20	2412	100	0	0
NVNT	ax40	2422	100	0	0





Agilent Spectrum Analyzer - Swep RL RF 50 Ω		SENSE:INT		11:52:22 AM Nov 21, 2024	
center Freq 2.41200	0000 GHz PNO: Fast	▶→ Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N	Frequency
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12.6		1			Center Fre
2.59					2.412000000 GH
17.4					Start Fre
27.4					2.412000000 GH
37.4 17.4					
57.4					Stop Fre 2.412000000 GH
57.4					
Center 2.412000000 G Res BW 8 MHz		W 8.0 MHz	Sweep 10	Span 0 Hz 0.0 ms (10001 pts)	CF Ste 8.000000 MH
KR MODE TRC SCL	× 50.00 ms	Y FU 3.02 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
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			status NT g 2412MHz		
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Agilent Spectrum Analyzer - Swep RL RF SO Ω enter Freq 2.41200	AC AC IOOOO GHz PNO: Fast IFGain:Low		NT g 2412MHz Align auto	11:53:50 AM Nov 21, 2024	Frequency
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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.

14.2 Test Result

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



15. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.

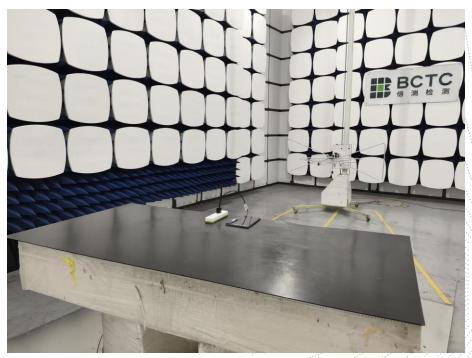


16. EUT Test Setup Photographs

Conducted Emissions Photo



Radiated Measurement Photos







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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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***** END *****

No.: BCTC/RF-EMC-005

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