



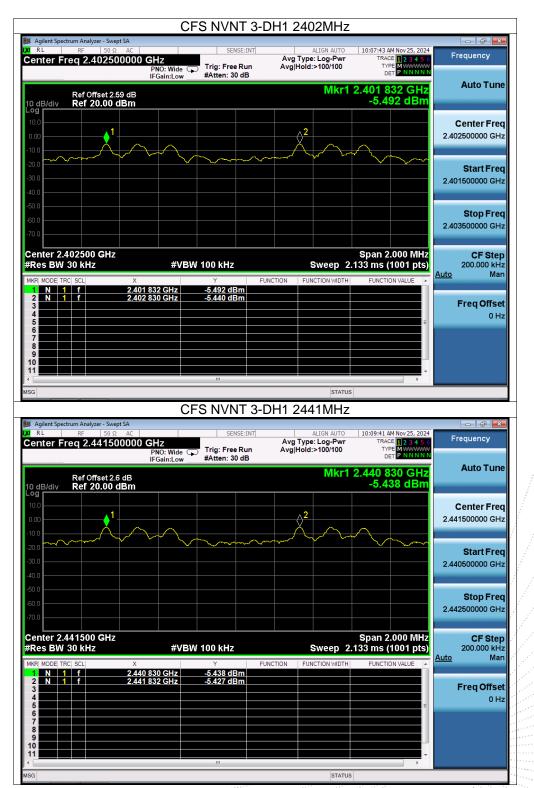


Edition : B.2





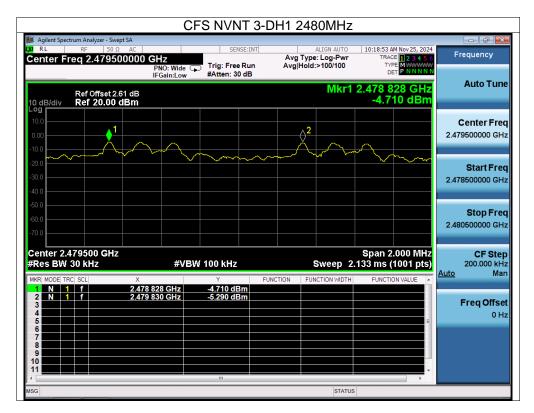




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No.: BCTC/RF-EMC-005



13. Number Of Hopping Frequency

13.1 Block Diagram Of Test Setup



13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

13.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

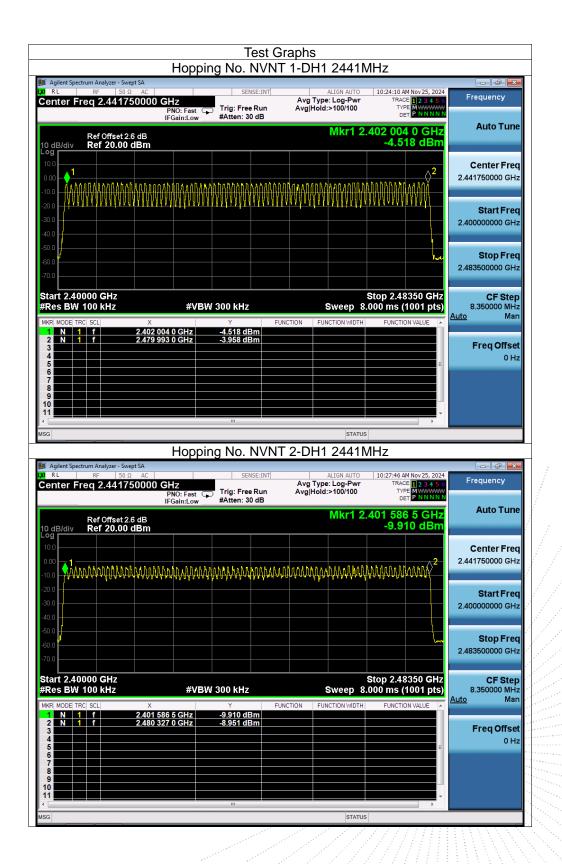
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz, Sweep=auto;

13.4 Test Result

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass







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	Hopping No. NV	'NT 3-DH1 2441I	MHz	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	SENSE:IN		10:32:35 AM Nov 25, 2024	Frequency
Center Freq 2.44175000	0 GHz PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm		Mkr1 2	.401 503 0 GHz -11.076 dBm	Auto Tune
Log 10.0 0.00 ↓1 -10.0 ↓1 ([1,1]/(1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	umpunnumumpun	MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	μ aaaa $\langle 2$	Center Freq 2.441750000 GHz
-20.0				Start Freq 2.400000000 GHz
-50.0				Stop Freq 2.483500000 GHz
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz	Sweep 8	Stop 2.48350 GHz 2.000 ms (1001 pts)	CF Step 8.350000 MHz Auto Man
	1 503 0 GHz -11.076 dBm 0 494 0 GHz -10.884 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
< ∕ISG	m	STATU	s	



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14. Dwell Time

14.1 Block Diagram Of Test Setup



14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

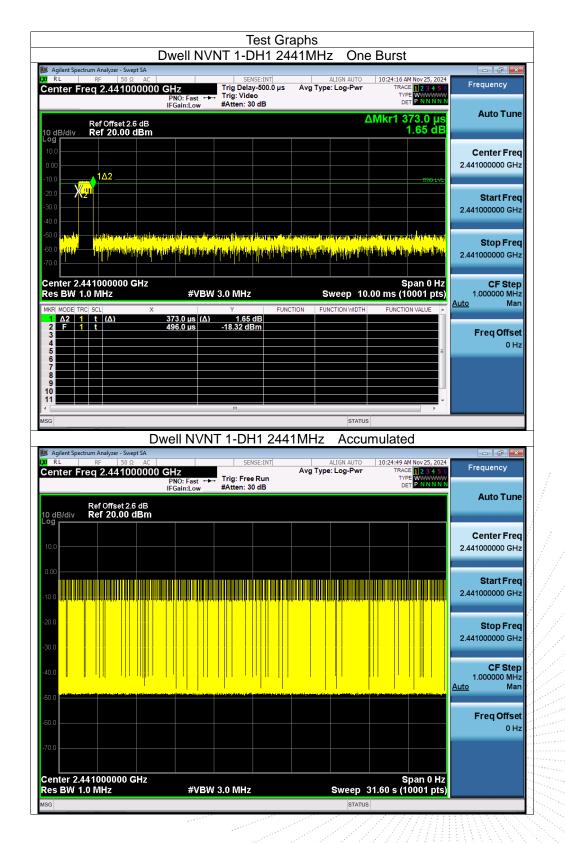
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.373	119.36	320	31600	400	Pass
1-DH3	2441	1.621	257.739	159	31600	400	Pass
1-DH5	2441	2.868	306.876	107	31600	400	Pass
2-DH1	2441	0.38	121.22	319	31600	400	Pass
2-DH3	2441	1.628	258.852	159	31600	400	Pass
2-DH5	2441	2.879	308.053	107	31600	400	Pass
3-DH1	2441	0.38	120.84	318	31600	400	Pass
3-DH3	2441	1.63	260.8	160	31600	400	Pass
3-DH5	2441	2.879	308.053	107	31600	400	Pass

14.4 Test Result

Note: Total Dwell Time (ms) = Pulse Time (ms)*Burst Count





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		VNT 1-DH3 2	44 IMHZ ON	e Burst	
I Agilent Spectrum Analyzer - Swo RL RF 50 S Center Freq 2.4410	Ω AC	SENSE:INT Trig Delay-500.0 µ ⊷⊷ Trig: Video	ALIGN AUTO	10:34:21 AM Nov 25, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW	
Ref Offset 2	IFGain:Low	#Atten: 30 dB		ΔMkr1 1.621 ms -0.20 dB	Auto Tune
10 dB/div Ref 20.00	αBM 1Δ2			TRIO LVL	Center Freq 2.441000000 GHz
					Start Freq 2.441000000 GHz
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enter 2.441000000 es BW 1.0 MHz		SW 3.0 MHz	Sweep 1	Span 0 Hz 0.00 ms (10001 pts)	CF Step 1.000000 MHz Auto Mar
KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t (Δ) 3 - - - - 4 - - - - 5 - - - - 6 - - - -	Х <u>1.621 ms</u> (<i>и</i> 497.0 µs		UNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset
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G	Durall NIV				
Agilent Spectrum Analyzer - Swe	ept SA	NT 1-DH3 24	411VIHZ ACCU	umulated	
enter Freq 2.4410	Ω AC 00000 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	10:34:55 AM Nov 25, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N	Frequency
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					2.441000000 GH: Start Free 2.441000000 GH: Stop Free 2.441000000 GH:
					2.441000000 GH; Start Free 2.441000000 GH; Stop Free 2.441000000 GH; CF Step 1.000000 MH;
					Center Frec 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz Auto Mar Freq Offset 0 Hz
				Span 0 Hz	2.441000000 GH2 Start Free 2.441000000 GH2 Stop Free 2.441000000 GH2 CF Step 1.000000 MH2 Auto Mar Free Offset



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-30.0				Start Freq 2.441000000 GHz
-40.0			n an dari pina pina pi na pina pina pina pina pi	JUDITEU
-60.0 •	a shallor a she hadaa a		uze dahari baya dina barda di dalar	2.441000000 GHz
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Swee	Span 0 p 10.00 ms (10001 p	ots) 1.000000 MHz
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6 7 8				
9 10 11				 -
MSG	III		STATUS	•
	well NVNT 1-DH5	044414		
0		2441MH7 4	Accumulated	
🚺 Agilent Spectrum Analyzer - Swept SA				2024
🔰 Agilent Spectrum Analyzer - Swept SA 🙀 RL RF 50 Ω AC	SENSE:	INT ALIGI Avg Type: Lo In	N AUTO 10:35:42 AM Nov 25,	2024 Frequency
🔰 Agilent Spectrum Analyzer - Swept SA) GHz PNO: Fast ↔ Trig: Free Ru	INT ALIGI Avg Type: Lo In	N AUTO 10:35:42 AM Nov 25, g-Pwr TRACE 2 3	2024 Frequency
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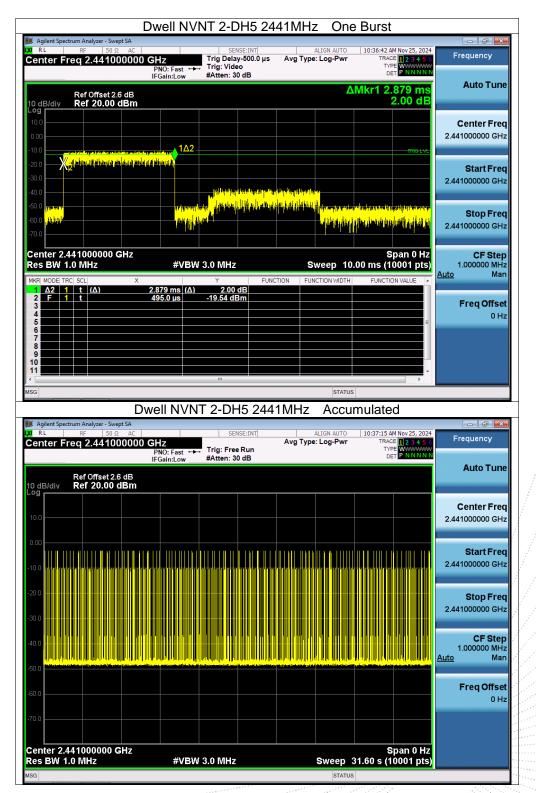


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-70.0 Center 2.441000000 G Res BW 1.0 MHz		3.0 MHz	Sweep 1	Span 0 Hz 0.00 ms (10001 pts)	CF Step 1.000000 MHz
MKR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4	X 380.0 μs 494.0 μs	Y FU 0.52 dB -20.52 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Man Freq Offset 0 Hz
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Ref S0 Q Center Freq 2.44100 Ref Offset 2.1 Ref 20.00 (0 0 10.0 0 -20.0 0 -30.0 0 -60.0 0	ept SA AC DOOOO GHz PNO: Fast IFGain:Low 6 dB	SENSE:INT	ALIGN AUTO	10:36:28 AM Nov 25, 2024 TRACE 2 3 4 5 6 TYPE WWWWWW	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz
Ref 50 Q Center Freq 2.44100 Ref Offset 2.1 10 dE/div Ref 20.00 (ept SA AC DOOOO GHz PNO: Fast IFGain:Low 6 dB	SENSE:INT	ALIGN AUTO	10:36:28 AM Nov 25, 2024 TRACE 2 3 4 5 6 TYPE WWWWWW	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man
Ref Offset 2.1 10 B/div Ref Offset 2.1 10 B/div Ref 20.00 (10.0	ept SA 2 AC PRO: Fast IFGain:Low 6 dB dBm 6 dB dBm 6 dB dBm 6 dB dBm 6 dB 6 d	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	10:36:28 AM Nov 25, 2024 TRACE 2 3 4 5 6 TYPE WWWWWW	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man







		/NT 3-DH1 24	41MHz One	Burst	
I Agilent Spectrum Analyzer - Swe RL RF 50 Ω Center Freq 2.44100	AC AC	SENSE:INT Trig Delay-500.0 µs ⊢ Trig: Video	ALIGN AUTO Avg Type: Log-Pwr	10:32:41 AM Nov 25, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P NN N N	Frequency
Ref Offset 2. 0 dB/div Ref 20.00		#Atten: 30 dB	Δ	Mkr1 380.0 µs 1.13 dB	Auto Tune
0 dB/div Ref 20.00				TRIO LVL	Center Freq 2.441000000 GHz
					Start Freq 2.441000000 GHz
			alan bila da kanalari da a		Stop Freq 2.441000000 GHz
enter 2.441000000 (es BW 1.0 MHz		V 3.0 MHz	-	Span 0 Hz 00 ms (10001 pts)	CF Step 1.000000 MHz <u>Auto</u> Man
KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 - - - 4 - - -	× 380.0 μs (Δ) 496.0 μs		CTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset
5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				E	0 Hz
9		III			
G		NT 3-DH1 244	1MHz Accur	nulated	
Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 2.44100	pt SA	SENSE:INT	ALIGN AUTO	10:33:14 AM Nov 25, 2024 TRACE 12 3 4 5 6	Frequency
Ref Offset 2.0	PNO: Fast ↔ IFGain:Low 6 dB	Atten: 30 dB		TYPE DET PNNNN	Auto Tune
dB/div Ref 20.00	dBm				
I					Center Freq
					2.441000000 GHz
.00					
.00 0.0 0.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1					2.441000000 GHz Start Freq
					2.44100000 GHz Start Freq 2.441000000 GHz Stop Freq
					2.441000000 GHz Start Freq 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz <u>Auto</u> Man Freq Offset
					2.441000000 GHz Start Freq 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz Auto Man
	Hz	N 3.0 MHz		Span 0 Hz 1.60 s (10001 pts)	2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz <u>Auto</u> Man Freq Offset

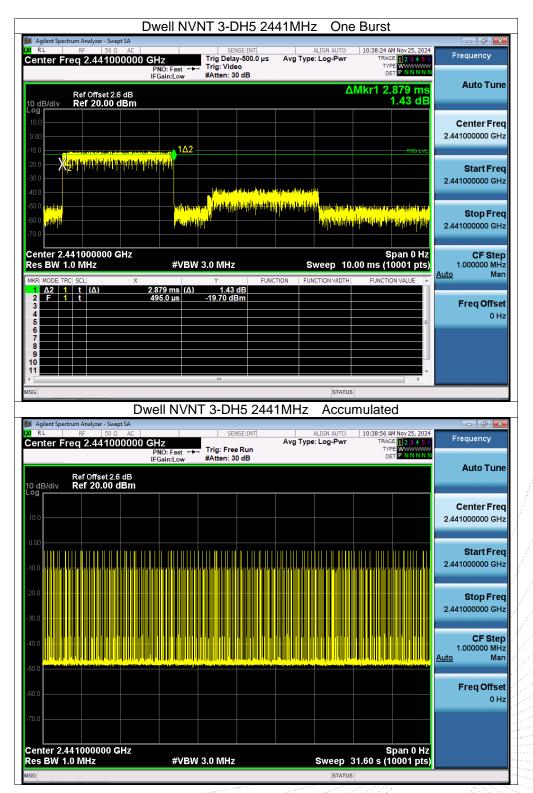
JC JC PPR

ероі



Agilent Spectrum Analyzer - Sw		/NT 3-DH3 2	441MHz On	e Burst	
Center Freq 2.4410	2 AC 00000 GHz PNO: Fast ←	SENSE:INT Trig Delay-500.0 µs → Trig: Video	ALIGN AUTO s Avg Type: Log-Pwr	10:37:34 AM Nov 25, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N	
Ref Offset 2 10 dB/div Ref 20.00	IFGain:Low	#Atten: 30 dB		∆Mkr1 1.630 ms -0.49 dB	Auto Tune
10 dB/div Ref 20.00	1Δ2			TRIO LVL	Center Freq 2.441000000 GHz
-20.0 X2111144,11144					Start Freq 2.441000000 GHz
-50.0 <mark>milyan</mark> -60.0 <mark></mark>	allen nordigi (1941) eretende Mitaligi eretende Mitaligi eretende	and the second	<mark>të b</mark> andelor <mark>An terreten d</mark> endelor E të ngjeri e të		Stop Freq 2.441000000 GHz
Center 2.441000000 Res BW 1.0 MHz		W 3.0 MHz	Sweep 1	Span 0 Hz 0.00 ms (10001 pts)	CF Step 1.000000 MHz Auto Man
MKR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	X 1.630 ms (Δ 496.0 μs		INCTION FUNCTION WIDTH	H FUNCTION VALUE	Freq Offset 0 Hz
8 9 10 11 •		III	STATU		
	Dwell NV	NT 3-DH3 24		umulated	
Agilent Spectrum Analyzer - Sw RL RF 50 9 Center Freq 2.4410	2 AC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	10:38:07 AM Nov 25, 2024 TRACE 1 2 3 4 5 6 TYPE	
Ref Offset 2 10 dB/div Ref 20.00		#Atten: 30 dB		DET P N N N N	Auto Tune
					Center Freq
10.0					2.441000000 GHz
0.00 -10.0					
0.00					2.44100000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz
000 -1000 -2000					2.44100000 GHz Start Freq 2.441000000 GHz Stop Freq
000 					2.441000000 GHz Start Freq 2.441000000 GHz 2.441000000 GHz CF Step 1.000000 MHz
0.00 -10.0 -20.0 -30.0 -40.0 -50.0	GHz			Span 0 Hz	2.44100000 GHz Start Freq 2.44100000 GHz 2.441000000 GHz CF Step 1.000000 MHz <u>Auto</u> Man Freq Offset







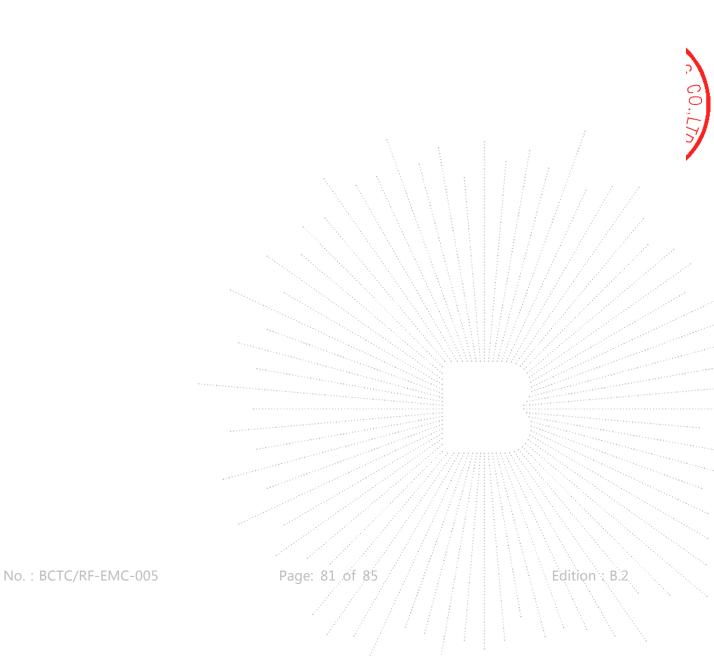
15. Antenna Requirement

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 Internal antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

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17. EUT Test Setup Photographs

Conducted emissions





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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.

Address:

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***** END *****

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