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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

11.2 Limit

	FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS				

11.3 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 = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.

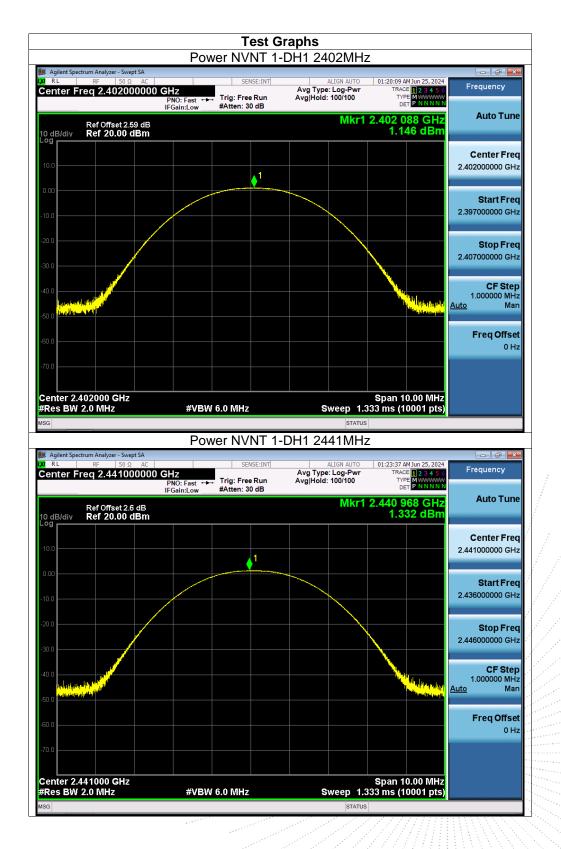
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.4 Test Result

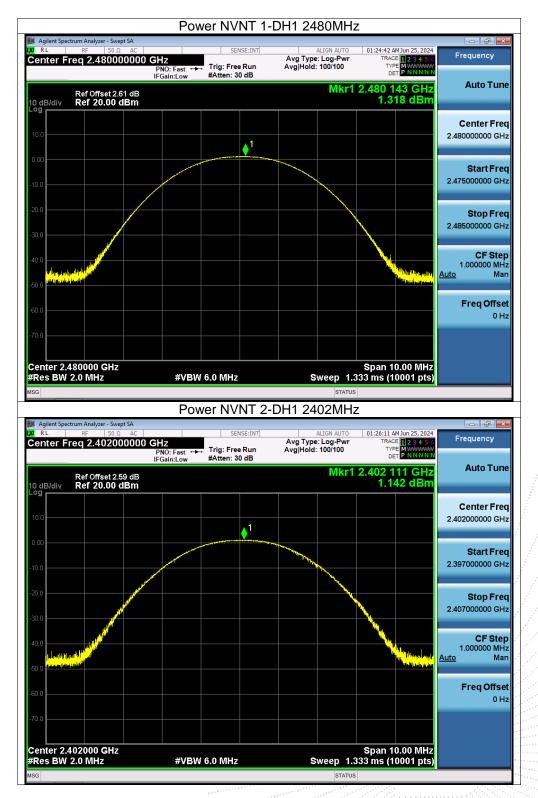
Temperature:	26 ℃	Relative Humidity: 54%] .
Test Voltage:	AC 120V/60Hz	Remark: N/A	
		\sim N N N N N N N H I I $H H H / / / / / / / /$	-

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	1.15	21	Pass
NVNT	1-DH1	2441	1.33	21	Pass
NVNT	1-DH1	2480	1.32	21	Pass
NVNT	2-DH1	2402	1.14	21	Pass
NVNT	2-DH1	2441	1.33	21	Pass
NVNT	2-DH1	2480	1.3	21	Pass
NVNT	3-DH1	2402	1.14	21	Pass
NVNT	3-DH1	2441	1.32	21	Pass
NVNT	3-DH1	2480	1.29	21	Pass

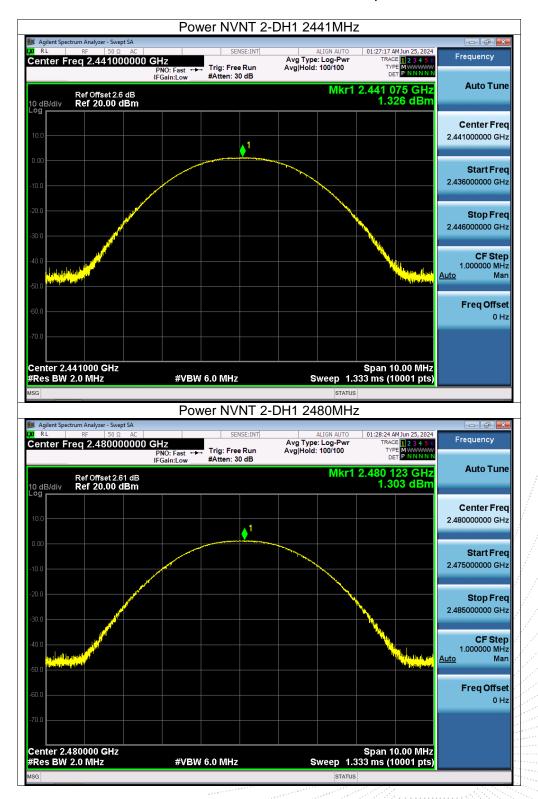




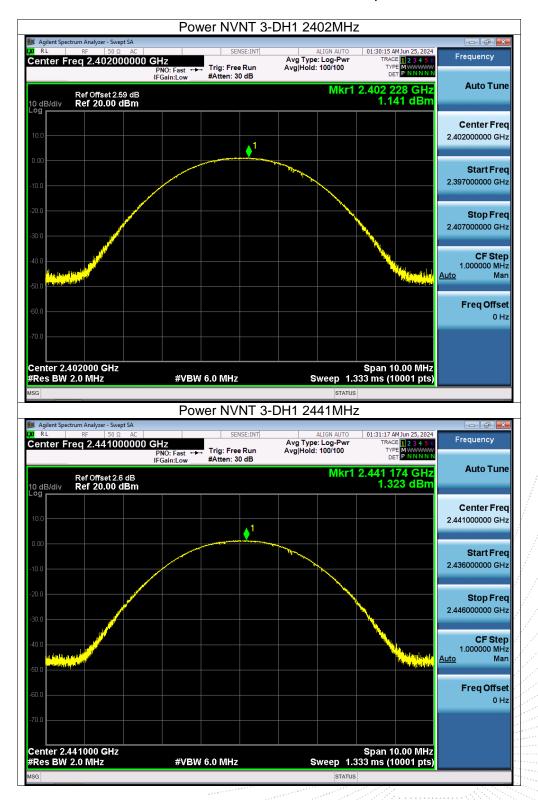
















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54%

12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

12.3 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 = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

Relative Humidity:

Test Voltage:	AC 120V	/60Hz	Remar	k:	N/A	
	·	· · ·				
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.986	2402.988	1.002	0.607	Pass
NVNT	1-DH1	2440.984	2441.984	1	0.578	Pass
NVNT	1-DH1	2478.982	2479.982	1	0.535	Pass
NVNT	2-DH1	2401.988	2402.988	1	0.771	Pass
NVNT	2-DH1	2440.984	2441.984	1	0.781	Pass
NVNT	2-DH1	2478.982	2479.982	1	0.794	Pass
NVNT	3-DH1	2401.986	2402.99	1.004	0.79	Pass
NVNT	3-DH1	2440.986	2441.984	0.998	0.799	Pass
NVNT	3-DH1	2478.984	2479.982	0.998	0.797	Pass

12.4 Test Result

26℃

Temperature:

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			Graphs ·DH1 2402MHz	,	
Agilent Spectrum Analyzer - Sw	vept SA				- ¢
RL RF 50		SENSE:INT	ALIGN AUTO	08:06:37 PM Aug 06, 2024 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wid IFGain:Lo	w #Atten: 30 dB	Avg Hold:>100/100	TYPE MWWWWW DET PNNNN	
Ref Offset 2			Mkr1	2.401 986 GHz -3.129 dBm	Auto Tun
10 dB/div Ref 20.00	dBm			-3.129 UBII	
10.0	1				Center Fre
.10.00				<u></u>	2.402500000 GH
-20.0					Start Fre
-30.0					2.401500000 GH
-40.0					
50.0					Stop Fre
-70.0					2.403500000 GH
Center 2.402500 GH	7			Span 2.000 MHz	CE Sta
Res BW 30 kHz		/BW 100 kHz	Sweep 2	2.133 ms (1001 pts)	CF Ste 200.000 kH
MKR MODE TRC SCL	X 2 404 086 CH=		FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 F 2 N 1 F 3	2.401 986 GHz 2.402 988 GHz	-3.061 dBm			Freq Offse
4 5					0 H
6 7					
8					
10					
< [m		•	
SG					
🗴 Agilent Spectrum Analyzer - Sw			DH1 2441MHz	·	- 6 -
RL RF 50 Center Freq 2.4415	Ω AC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:07:30 PM Aug 06, 2024 TRACE 1 2 3 4 5 6	
	PNO: Wid IFGain:Lo	w Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	TYPE MWWWWW DET PNNNN	
	. Gameo				Auto Tun
Ref Offset 2	6 dB		Mkr1	2.440 984 GHz	Auto Tuli
Ref Offset 2 10 dB/div Ref 20.00	2.6 dB dBm		Mkr1	2.440 984 GHz -2.670 dBm	Auto Tuli
10 dB/div Ref 20.00	2.6 dB dBm		Mkr1	2.440 984 GHz -2.670 dBm	
10 dB/div Ref 20.00	2.6 dB 0 dBm		Mkr1	2.440 984 GHz -2.670 dBm	Center Fre
10 dB/div Ref 20.00 - 09 10.0 - 10.0	2.6 dB dBm			2.440 984 GHz -2.670 dBm	Center Fre 2.441500000 GH
10 dB/div Ref 20.00	2.6 dB 0 dBm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2.440 984 GHz -2.670 dBm	Center Fre 2.441500000 GH Start Fre
10 dB/div Ref 20.00	2.6 dB 0 dBm			2.440 984 GHz -2.670 dBm	Center Fre 2.441500000 GH Start Fre 2.440500000 GH
10 dB/div Ref 20.00 - 9 10.0	2.6 dB 0 dBm			2.440 984 GHz -2.670 dBm	Center Fre 2.441500000 GH Start Fre 2.440500000 GH
10 dB/div Ref 20.00 9 10 0 10 0 1	2.6 dB 0 dBm			2.440 984 GHz -2.670 dBm	Center Fre 2.44150000 GH Start Fre 2.440500000 GH Stop Fre
10 dB/div Ref 20.00 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0					Center Fre 2.44150000 GH Start Fre 2.440500000 GH Stop Fre
Io dB/div Ref 20.00 • 9g	2 dBm	/BW/ 100 KHz		Span 2.000 MHz	Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH
10 dB/div Ref 20.00 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0	2 dBm			Span 2.000 MHz 2.133 ms (1001 pts)	Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH
IO dB/div Ref 20.00 Og	2 dBm	Y -2.670 dBm	Sweep 2	Span 2.000 MHz 2.133 ms (1001 pts)	Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Ste 200.000 kH Auto Ma
ID dB/div Ref 20.00 •9g	2 dBm 1 1 2 2 2 4 X	Y -2.670 dBm	Sweep 2	Span 2.000 MHz 2.133 ms (1001 pts)	Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH 2.442500000 GH <u>CF Ste</u> 200.000 kH <u>Auto</u> Ma
ID dB/div Ref 20.00 Og	2 dBm	Y -2.670 dBm	Sweep 2	Span 2.000 MHz 2.133 ms (1001 pts)	Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Ste 200.000 KH Auto Freq Offsed
ID dB/div Ref 20.00 Og	2 dBm	Y -2.670 dBm	Sweep 2	Span 2.000 MHz 2.133 ms (1001 pts)	Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Ste 200.000 kH Auto Ma
IO dB/div Ref 20.00 •9g	2 dBm z x 2.440 984 GHz	Y -2.670 dBm	Sweep 2	Span 2.000 MHz 2.133 ms (1001 pts)	Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH 2.442500000 GH <u>CF Ste</u> 200.000 kH <u>Auto</u> Ma

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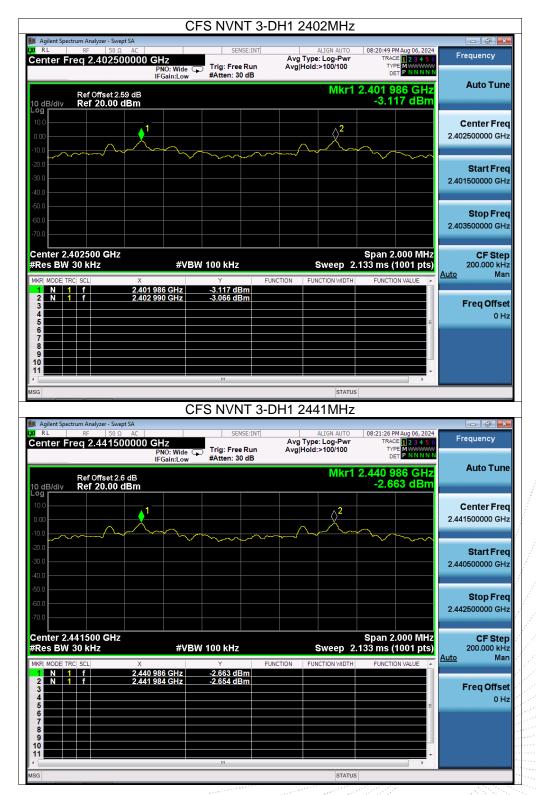






	iwept SA D Ω AC	SENSE:INT	ALIGN AUTO	08:18:25 PM Aug 06, 2024	Erequency
Center Freq 2.441	500000 GHz PNO: Wide (IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
Ref Offset 10 dB/div Ref 20.0	2.6 dB		Mkr1	2.440 984 GHz -2.682 dBm	Auto Tun
10 dB/div Ref 20.00					Center Fre
-10.00					2.441500000 GH
-20.0					Start Fre
-40.0					2.440500000 G⊦
-50.0					Stop Fre
-70.0					2.442500000 G⊦
Center 2.441500 GH #Res BW 30 kHz		W 100 kHz	Sweep 2	Span 2.000 MHz .133 ms (1001 pts)	CF Ste 200.000 k⊦
MKR MODE TRC SCL	× 2.440 984 GHz	-2.682 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 N 1 f 3 4	2.441 984 GHz	-2.651 dBm			FreqOffso 0 ⊦
5 6 7				E	
8 9 10					
11 (m		• •	
ISG				\$	
📕 Agilent Spectrum Analyzer - S	wept SA	FS NVNT 2-	DH1 2480MHz		
RL RF 50 Center Freq 2.479	500000 GHz PNO: Wide O IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	08:20:09 PM Aug 06, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
Ref Offset I0 dB/div Ref 20.00	2.61 dB		Mkr1	2.478 982 GHz -2.267 dBm	Auto Tur
10.0			^2		Center Fre
0.00					2.479500000 GH
-10.0					
-10.0					
-10.0					
-10.0 -20.0 -30.0 -40.0 -50.0					2.478500000 G⊦ Stop Fre
10.0					2.478500000 G⊦ Stop Fre
10.0 20.0 30.0 40.0 50.0		W 100 kHz	Sweep 2	Span 2.000 MHz 133 ms (1001 pts)	2.47850000 GH Stop Fre 2.48050000 GH CF Ste 200.000 kH
-10 0 -20 0 -2	#VB	Y F	Sweep 2 UNCTION FUNCTION WIDTH	.133 ms (1001 pts)	Start Fre 2.478500000 GH 2.480500000 GH 2.480500000 GH 200.000 KH Auto Ma
-10 0 -20 0 -2	#VB			.133 ms (1001 pts)	2.47850000 GH 2.48050000 GH CF Ste 200.000 KH Auto Ma Freq Offse
100 -200 -200 -200 -200 -200 -200 -200 -	#VB	Y F -2.267 dBm		.133 ms (1001 pts)	2.47850000 GH Stop Fre 2.48050000 GH CF Ste 200.000 KH <u>Auto</u> Ma
10.0 20.0 30.0 40.0 50.0	#VB	Y F -2.267 dBm		.133 ms (1001 pts)	2.47850000 GH 2.48050000 GH CF Ste 200.000 KH Auto Ma Freq Offse

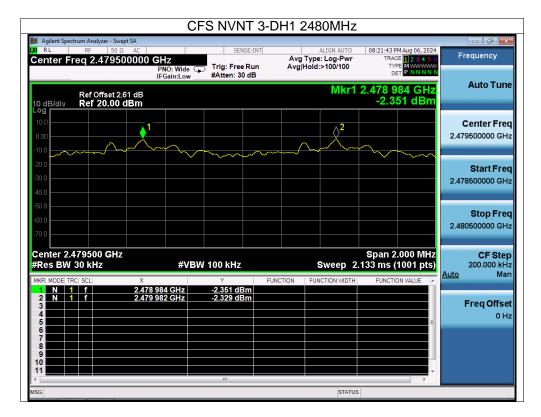




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13. Number Of Hopping Frequency

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;

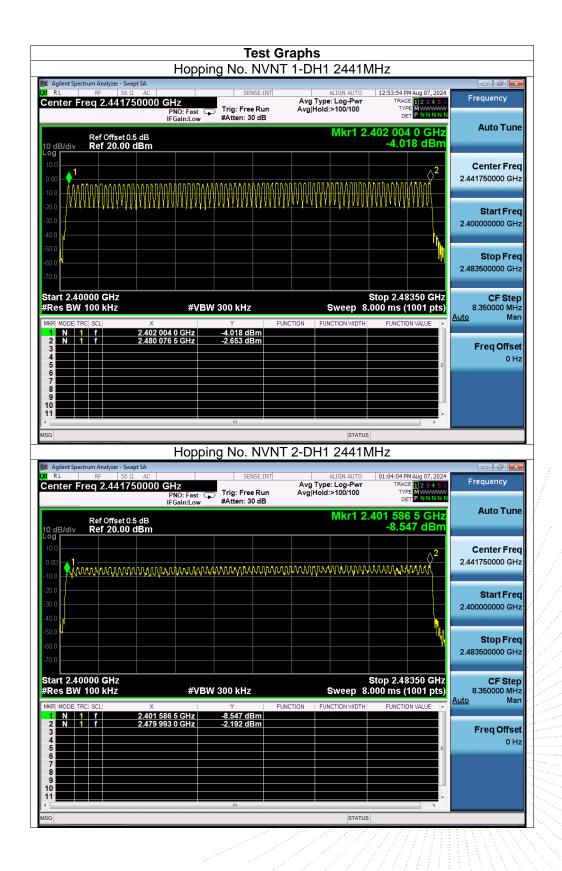
13.4 Test Result

Temperature:	26 ℃	R	Relative Humidity:	54%				
Test Voltage:	AC 120V/60Hz	R	Remark:	N/A		11		
		14. 14.			1	1	1 1	1

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









	Hopping No. NV	'NT 3-DH1 2441N	ЛНz	
Agilent Spectrum Analyzer - Swept SA				- P
Center Freg 2.441750000	GHz	Avg Type: Log-Pwr	01:06:07 PM Aug 07, 2024 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold:>100/100	DET PNNNN	
Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBm		Mkr1 2	402 004 0 GHz -3.628 dBm	Auto Tune
	MANANA MANANA	www.www.www.		Center Freq 2.441750000 GHz
-20.0 -30.0 -40.0				Start Freq 2.400000000 GHz
-50.0 -60.0 -70.0				Stop Freq 2.483500000 GHz
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz		Stop 2.48350 GHz 000 ms (1001 pts)	CF Step 8.350000 MHz
	004 0 GHz -3.628 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 N 1 f 2.4803 3 4 5	327 0 GHz -5.899 dBm		=	Freq Offset 0 Hz
6 7 8 9 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10				
			*	
MSG		STATUS		

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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).

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14.4 Test Result

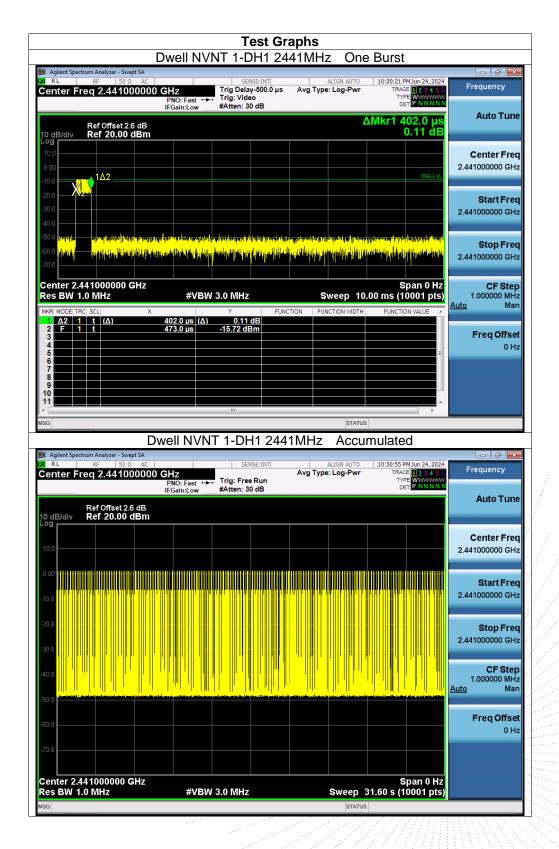
Temperature:	2	6 °C		Relative	Humidity:	54%		
Test Voltage:	A	C 120V/60Hz		Remark:				
Condition	Mode	e Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH	1 2441	0.402	128.238	319	31600	400	Pass
NVNT	1-DH	3 2441	1.66	275.56	166	31600	400	Pass
NVNT	1-DH	5 2441	2.906	290.6	100	31600	400	Pass
NVNT	2-DH	1 2441	0.414	132.066	319	31600	400	Pass
NVNT	2-DH	3 2441	1.663	276.058	166	31600	400	Pass
NVNT	2-DH	5 2441	2.908	314.064	108	31600	400	Pass
NVNT	3-DH	1 2441	0.413	131.747	319	31600	400	Pass
NVNT	3-DH	3 2441	1.666	249.9	150	31600	400	Pass
NVNT	3-DH	5 2441	2.914	303.056	104	31600	400	Pass

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

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		ell NVI	VT 1-D	H3 24	41 MH	z One	e Burst		
	50 Ω AC			E:INT		ALIGN AUTO		1 Jun 24, 2024	Frequency
Center Freq 2.44	PN	Z IO:Fast ↔→ ain:Low	Trig Delay Trig: Video #Atten: 30	•	Avg Type	: Log-Pwr		123456 WWWWWW PNNNNN	Frequency
Ref Offse 10 dB/div Ref 20.0						Δ	.Mkr1 1.(3	660 ms .98 dB	Auto Tune
10.0	▲1∆2								Center Free
-10.0 X 2								TRIG LVL	2.441000000 GH:
-20.0									Start Fred 2.441000000 GH:
-40.0									2.44100000 GH
-50.0 0000000000000000000000000000000000							dina di Barri. Ny INSEE dia Mampi		Stop Free 2.441000000 GH
-70.0			. 11	. р. т. т.		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			2.441000000 611
Center 2.44100000 Res BW 1.0 MHz	0 GHz	#VBW	3.0 MHz		s	weep 10	SI 00 ms (10.	oan 0 Hz 001 pts)	CF Step 1.000000 MH
MKR MODE TRC SCL	× 1.66	60 ms (Δ)	Y 3.98 d		TION FUN	ICTION WIDTH	FUNCTIO	N VALUE	<u>Auto</u> Mar
2 F 1 t 3 4 4	497	7.0 µs	-7.89 dB	m					Freq Offse 0 Hi
5 6 7								=	
8 9 10									
MSG						STATUS			
Agilent Spectrum Analyzer -		II NVN	T 1-DH	3 244	1MHz	Accu	mulated		- 0 -
Center Freq 2.44	50 Ω AC 1000000 GH PN	IO: Fast ↔→	Trig: Free			ALIGN AUTO e: Log-Pwr	TRACE	1 Jun 24, 2024 1 2 3 4 5 6 WWWWWWW P N N N N N	Frequency
Ref Offse 10 dB/div Ref 20.0	t 2.6 dB	ain:Low	#Atten: 30	aв			UL.		Auto Tune
Log									Center Free
10.0									2.441000000 GH;
									Start Free
-10.0									
-10.0									2.441000000 GH:
-20.0									Stop Free
-20.0									Stop Free 2.441000000 GH: CF Step 1.000000 MH;
-20.0									Stop Frec 2.44100000 GH: CF Step 1.000000 MH: <u>Auto</u> Mar
-20 0									Stop Free 2.441000000 GH: CF Step 1.000000 MH;
-20 0 -30 0 -40 0 -60 0									Stop Free 2.44100000 GH: CF Step 1.00000 MH: <u>Auto</u> Mar Freq Offse
-20.0 -30.0 -40.0 -50.0 -60.0	0 GHz							pan 0 Hz	Stop Free 2.44100000 GH: CF Step 1.00000 MH: <u>Auto</u> Mar Freq Offse



D	well NVNT 1-DH5 2	441MHz One	Burst	
Mailent Spectrum Analyzer - Swept SA	SENSE:INT	ALIGN AUTO	10:44:22 PM Jun 24, 2024	
Center Freq 2.441000000			TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N	Frequency
Ref Offset 2.6 dB		Δ	/kr1 2.906 ms -1.32 dB	Auto Tune
Log 10.0				Center Freq
0.00				2.441000000 GHz
			TRIG LVL	
-20.0 -20.0				Start Freq 2.441000000 GHz
-40.0				
-50.0 <mark>497 (10)</mark> -60.0 <mark>13 (10) 17</mark>				Stop Freq
-70.0		ni ta ^{dan k} ani kata ni pata ki ni primi ni mi	entrologi et al tanzant au	2.441000000 GHz
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 10.0	Span 0 Hz 0 ms (10001 pts)	CF Step 1.000000 MHz
MKR MODE TRC SCL X	Y F	JNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 Δ2 1 t (Δ) 2 2 F 1 t	2.906 ms (Δ) -1.32 dB 473.0 μs -15.22 dBm			Freq Offset
3 4 5				0 Hz
6				
8 9				
10				
MSG		STATUS		
Dw	ell NVNT 1-DH5 24	41MHz Accun	nulated	
Magilent Spectrum Analyzer - Swept SA	SENSE:INT	ALIGN AUTO	10:44:55 PM Jun 24, 2024	
Center Freq 2.441000000 C		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N	Frequency
Ref Offset 2.6 dB				Auto Tune
10 dB/div Ref 20.00 dBm				Center Freq
10.0				2.441000000 GHz
				Start Freq 2.441000000 GHz
-10.0				2.441000000 GHz
-20.0				Stop Fred
-30.0				2.441000000 GHz
				CF Step
-40.0				1.000000 MHz Auto Mar
-50.0			an a station of the s	- Mai
-60.0				Freq Offset
				0 Hz
-70.0				
Center 2.441000000 GHz			Span 0 Hz	
Res BW 1.0 MHz	#VBW 3.0 MHz		1.60 s (10001 pts)	
MSG		STATUS		



	Dwell NVI	NI Z-DHI 4	2441MHZ	One	Burst	
Agilent Spectrum Analyzer - Swep LXI RL RF 50 Ω		SENSE:INT		LIGN AUTO	10:35:40 PM Jun 24, 2024	
Center Freq 2.44100		Trig Delay-500.0 Trig: Video #Atten: 30 dB			TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN	Frequency
Ref Offset 2.0 10 dB/div Ref 20.00	6 dB			Δ	/lkr1 414.0 µs 6.15 dB	Auto Tune
						Center Freq 2.441000000 GHz
-10.0 X2					TRIG LVL	
-30.0						Start Freq 2.441000000 GHz
	in the standard section of the state of the					Stop Freq
-60.0 <mark> 140 </mark>	<mark>l kalan kari yang balan kanalari</mark> a			and a straight of the second	Aren har har her i an a filme.	2.441000000 GHz
Center 2.441000000 C Res BW 1.0 MHz		3.0 MHz	Sw	veep 10.0	Span 0 Hz 0 ms (10001 pts)	CF Step 1.000000 MHz <u>Auto</u> Man
MKR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t	× 414.0 μs (Δ) 497.0 μs	Y F 6.15 dB -8.50 dBm	UNCTION FUNC	CTION WIDTH	FUNCTION VALUE	
3 4 5 6					E	Freq Offset 0 Hz
6 7 8 9						
10 11 •						
MSG				STATUS		
		I 2-DH1 2/	141MHz	Accum	ulated	
J Agilent Spectrum Analyzer - Swe R L RF 50 Ω	AC	SENSE:INT	A		10:36:13 PM Jun 24, 2024	Frequency/
	pt SA AC			LIGN AUTO		Frequency
LXI RL RF 50 Ω	AC AC PNO: Fast IFGain:Low	SENSE:INT	A	LIGN AUTO	10:36:13 PM Jun 24, 2024 TRACE 1 2 3 4 5 6	
M RL RF 50 Ω Center Freq 2.44100 Ref Offset 2.6 Ref Offset 2.6 10 dB/div Ref 20.00 c Ref 20.00 c	AC AC PNO: Fast IFGain:Low	SENSE:INT	A	LIGN AUTO	10:36:13 PM Jun 24, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref S0.0 Center Freq 2.44100 Ref Offset2.6 Ref Offset2.6 10 dB/div Ref 20.00 d 10.0 Ref 20.00 d	AC AC PNO: Fast IFGain:Low	SENSE:INT	A	LIGN AUTO	10:36:13 PM Jun 24, 2024 TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Freq
00 RL RF 50 Ω Center Freq 2.44100 Ref Offset 2.6 10 dB/div Ref 20.00 c Log	AC AC PNO: Fast IFGain:Low	SENSE:INT	A	LIGN AUTO	10:36:13 PM Jun 24, 2024 TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Freq
Off RE S0 0 Center Freq 2.44100 Ref Offset 2.6 10 dB/div Ref 20.00 d 10 0 Ref 20.00 d	AC AC PNO: Fast IFGain:Low	SENSE:INT	A	LIGN AUTO	10:36:13 PM Jun 24, 2024 TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq
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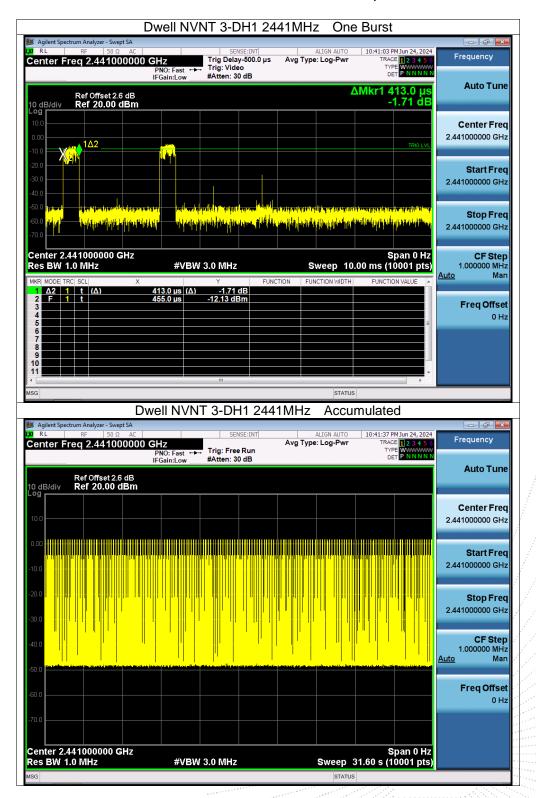


Dwel	I NVNT 2-DH3 24	41MHz On	e Burst	
Agilent Spectrum Analyzer - Swept SA			10.46.06.011	
X RL RF 50 Ω AC Center Freq 2.441000000 GHz PNO: 1 FRO: 1 FRO: 1 FEGain	SENSE:INT Trig Delay-500.0 µs Trig: Video Low #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	10:46:06 PM Jun 24, 2024 TRACE 1 2 3 4 5 6 TYPE DET P N N N N	Frequency
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm			∆Mkr1 1.663 ms 0.64 dB	Auto Tune
				Center Freq 2.441000000 GHz
-10.0 X 24 and 14 and 14 and 12 a				Start Freq
-30.0				2.441000000 GHz
	dente de la contra de la palace. Note de la palace de la palace			Stop Freq 2.441000000 GHz
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 1	Span 0 Hz 0.00 ms (10001 pts)	CF Step 1.000000 MHz <u>Auto</u> Man
MKR MODE TRC SCL X 1 Δ2 1 t (Δ) 1.663 r 2 F 1 t 368.0 3 368.0	ns (Δ) 0.64 dB	CTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset
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11 <				
MSG		STATU	a	
	NVNT 2-DH3 244	1MHz Accu	umulated	
	ast +++ Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr	10:46:39 PMJun 24, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N	Frequency
IFGain Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm	Low #Atten: 30 dB			Auto Tune
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0.00 H-100 H				Start Freq 2.441000000 GHz
-200				Stop Freq 2.441000000 GHz
-40.0				CF Step 1.000000 MHz Auto Man
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				Freq Offset
-50.0 -60.0 -70.0				Freq Offset 0 Hz
-60.0 -70.0 Center 2.441000000 GHz	#VBW 3.0 MHz	Sweep	Span 0 Hz 31.60 s (10001 pts)	



=	DH5 2441MHz	One Burst	
		IGN AUTO 10:47:22 PM	Jun 24, 2024 Frequency
PNO: Fast +++ Trig: Vi		-og-Pwr TRACE TYPE	123456 WWWWWW PNNNNN
IFGain:Low #Atten:	30 dB	ΔMkr1 2.9	Auto Tup
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm Log			.53 dB
			Center Free
			2.441000000 GH
-30.0			2.441000000 GH
-40.0			
			Stop Free
-60.0 <mark>4(4) ₁₀ 1</mark>	a na ana ana ana ana ana ana ana ana an	u the second state of the second s	2.441000000 GH
Center 2.441000000 GHz			oan 0 Hz CF Ster
Res BW 1.0 MHz #VBW 3.0 MH	z Sw	eep 10.00 ms (10	001 pts) 1.000000 MH
MKR MODE TRC SCI X Υ 1 Δ2 1 t (Δ) 2.908 ms (Δ) -2.5		ION WIDTH FUNCTION	Auto Mar
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6			
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
			-
MSG		STATUS	
Dwell NVNT 2-D	H5 2441MHz	Accumulated	k
Milent Spectrum Analyzer - Swept SA	ENSE:INT AL	IGN AUTO 10:47:55 PM	IJun 24, 2024
Center Freq 2.441000000 GHz	Avg Type: I	-og-Pwr TRACE	123456 Www.www.
IFGain:Low #Atten:	30 dB	DET	Auto Tune
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm Log			
Log			
			Conter Fred
10.0			2.441000000 GH
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			2.44100000 GH: Start Free 2.44100000 GH: Stop Free 2.44100000 GH: CF Step 1.00000 MH: <u>Auto</u> Mar
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	441MHz	One Burst	
M gilent Spectrum Analyzer - Swept SA M RF 50 Ω AC SENSE:INT		I AUTO 10:48:23 PM Jun 24, 2024	
Center Freq 2.441000000 GHz PNO: Fast ++ Trig: Video	Avg Type: Lo	g-Pwr TRACE 1 2 3 4 5 0 TYPE WWWWW DET P N N N N	4
IFGain:Low #Atten: 30 dB		ΔMkr1 1.666 ms 1.93 dB	Auto Tupo
10 dB/div Ref 20.00 dBm		1.55 GB	
			Center Freq 2.441000000 GHz
-10.0 X2		TRIG LVL	2.441000000 GH2
-20.0			Start Freq
-30.0			2.441000000 GHz
-50.0 A depart -60.0 In data		and the second	Stop Freq
-60.0 [phph]	and the state of the second state of the secon	edengiya lanan ya Mibbler ya I	2.441000000 GHz
Center 2.441000000 GHz		Span 0 Hz	CE Stop
Res BW 1.0 MHz #VBW 3.0 MHz	Swee	ep 10.00 ms (10001 pts)	1.000000 MHz
	NCTION FUNCTIO	N WIDTH FUNCTION VALUE	Auto Man
1 Δ2 1 t (Δ) 1.666 ms (Δ) 1.93 dB 2 F 1 t 497.0 μs -7.23 dBm 3 -7.23 dBm -7.23 dBm -7.23 dBm -7.23 dBm			Freq Offset
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6 7			
8			
10			J
۰ m		F	
		STATUS	
Dwell NVNT 3-DH3 244 Majient Spectrum Analyzer - Swept SA	41MHZ <i>F</i>	ccumulated	
X RL RF 50 Ω AC SENSE:INT	ALIG	I AUTO 10:48:57 PM Jun 24, 2024 g-Pwr TRACE 1 2 3 4 5 (-
Center Freq 2.441000000 GHz PNO: Fast ++ IFGain:Low #Atten: 30 dB	Ang Type. Lo		
			N
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Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm			Auto Tune
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm			Auto Tune
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10 dB/div Ref 20.00 dBm 10 0			Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step
10 dB/div Ref 20.00 dBm 10 0			Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz
10 dB/div Ref 20.00 dBm 10 0			Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz
10 dB/div Ref 20.00 dBm 10 0			Start Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset
10 dB/div Ref 20.00 dBm 10 0			Start Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto
10 dB/div Ref 20.00 dBm 10 0			Start Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset
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10 dB/div Ref 20.00 dBm 10 0		Span 0 Hz eep 31.60 s (10001 pts	Start Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz



	ell NVNT 3-DH5 24		Burst	
Magilent Spectrum Analyzer - Swept SA	SENSE:INT	ALIGN AUTO	10:49:10 PM Jun 24, 2024	- ē 🐱
Center Freq 2.441000000 GHz			TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNNN	Frequency
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm		ΔΝ	lkr1 2.914 ms -0.80 dB	Auto Tune
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			TRIG LVL	
-20.0				Start Fred 2.441000000 GHz
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-50.0	the standard standard and a standard and a standard a standard a standard a standard a standard a standard a s I de standard a standard	n an an ann an ann an ann an ann an ann an a	and a final state of the	Stop Fred
-70.0	a de dentes l'atra tea		n a sulta la come Mo	2.441000000 GHz
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 10.0	Span 0 Hz 0 ms (10001 pts)	CF Step 1.000000 MHz
MKR MODE TRC SCL X		CTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 Δ2 1 t (Δ) 2.91 2 F 1 t 454 3 454	4 ms (Δ) -0.80 dB .0 μs -12.41 dBm			Freq Offset
4 5			E	0 Hz
6 7 8				
9 10				
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MSG		STATUS		
DWEI Majient Spectrum Analyzer - Swept SA	I NVNT 3-DH5 244	11MHz Accum	lulated	
				X
	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	10:49:44 PM Jun 24, 2024 TRACE 1 2 3 4 5 6	Frequency
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Center Freq 2.441000000 GHz PN IFGa Ref Offset 2.6 dB	D: Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tune
Center Freq 2.441000000 GHz PN IFGa Ref Offset 2.6 dB	D: Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tuno Center Freq
Center Freq 2.441000000 GHz PNC IPG2 10 dB/div Ref Offset 2.6 dB Ref 20.00 dBm	D: Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Free 2.441000000 GH
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Center Freq 2.441000000 GHz PN IFG Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10.0 000 000 000 000 000 000 000 000 00): Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Free 2.44100000 GH: Start Free
Center Freq 2.441000000 GHz PNC ID dB/div 0 00 0.00 0.00): Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Free 2.44100000 GH: Start Free 2.44100000 GH: Stop Free
Center Freq 2.441000000 GHz PN IFG Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10.0 000 000 000 000 000 000 000 000 00): Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Free 2.44100000 GH: Start Free 2.44100000 GH: Stop Free
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Center Freq 2.44100000 GHz PN PN IC GR Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10 0 10): Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Free 2.441000000 GH: 2.441000000 GH: 2.441000000 GH: 2.441000000 GH: 1.000000 MH: Auto Mar
Center Freq 2.441000000 GHz PN PN IFG Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 000 000 000 000 000 000 000 0): Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Auto Tune Center Frec 2.441000000 GHz Start Frec 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz Auto Mar
Center Freq 2.44100000 GHz PN PN IC GR Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10 0 10): Fast ↔ Trig: Free Run		TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz
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Center Freq 2.44100000 GHz PN IFG PN IFG PN IFG PN): Fast ↔ Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency Auto Tune Center Frec 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz Auto Mar Freq Offset



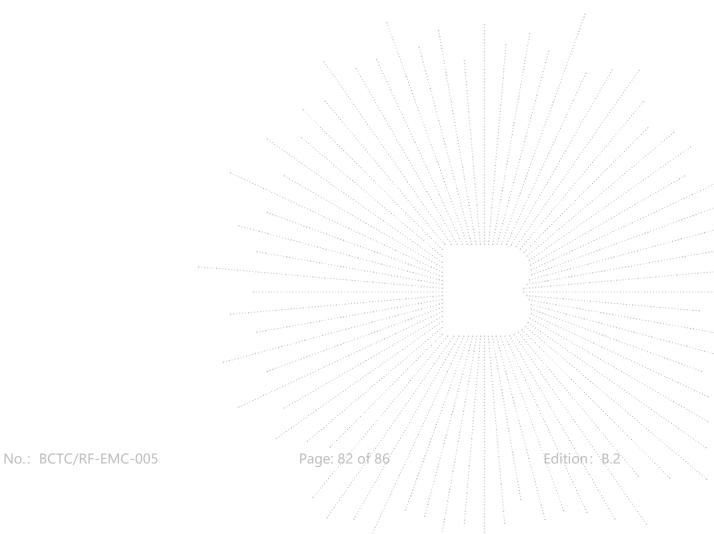
15. Antenna Requirement

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 PCB antenna, fulfill the requirement of this section.



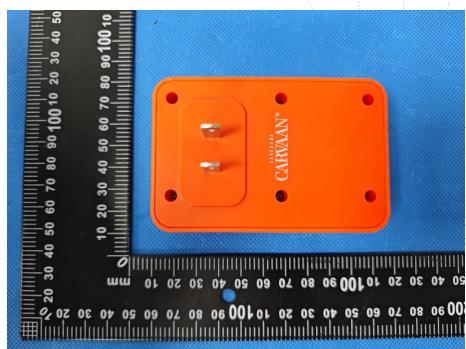


16. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.

No.: BCTC/RF-EMC-005

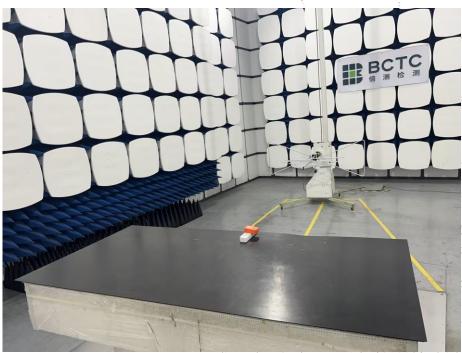


17. EUT Test Setup Photographs

Conducted Emissions Photo



Radiated Measurement Photos



No.: BCTC/RF-EMC-005





No.: BCTC/RF-EMC-005

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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:

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

***** END *****

No.: BCTC/RF-EMC-005

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