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10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.874	Pass
NVNT	1-DH1	2441	0.896	Pass
NVNT	1-DH1	2480	0.945	Pass
NVNT	2-DH1	2402	1.436	Pass
NVNT	2-DH1	2441	1.441	Pass
NVNT	2-DH1	2480	1.432	Pass
NVNT	3-DH1	2402	1.454	Pass
NVNT	3-DH1	2441	1.438	Pass
NVNT	3-DH1	2480	1.446	Pass

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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

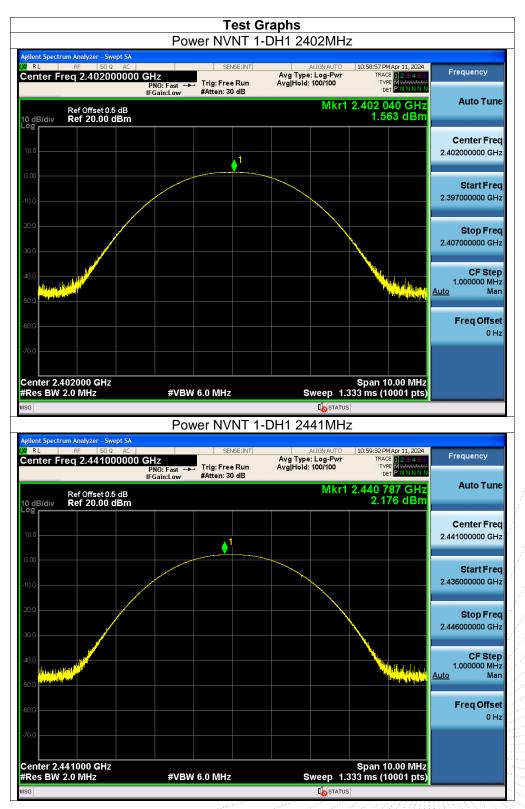
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	1.56	21	Pass
NVNT	1-DH1	2441	2.18	21	Pass
NVNT	1-DH1	2480	2.03	21	Pass
NVNT	2-DH1	2402	2.64	21	Pass
NVNT	2-DH1	2441	3.5	21	Pass
NVNT	2-DH1	2480	3.36	21	Pass
NVNT	3-DH1	2402	2.85	21	Pass
NVNT	3-DH1	2441	3.72	21	Pass
NVNT	3-DH1		3.56	21	Pass

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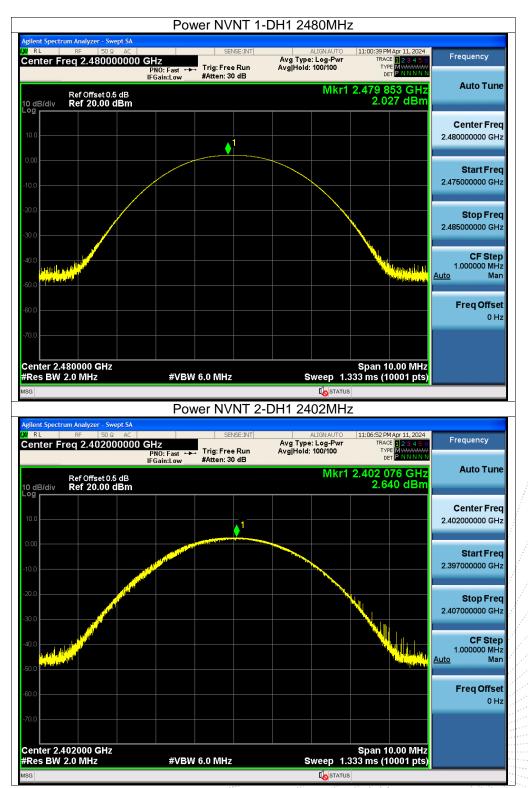
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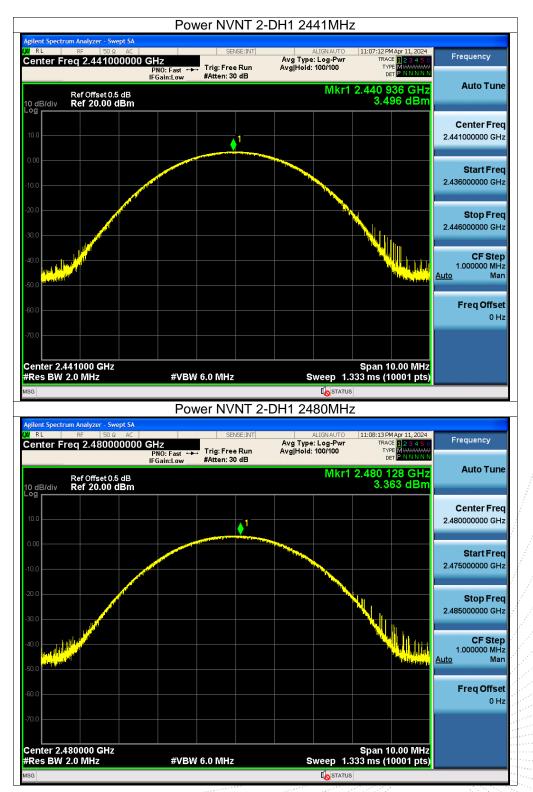




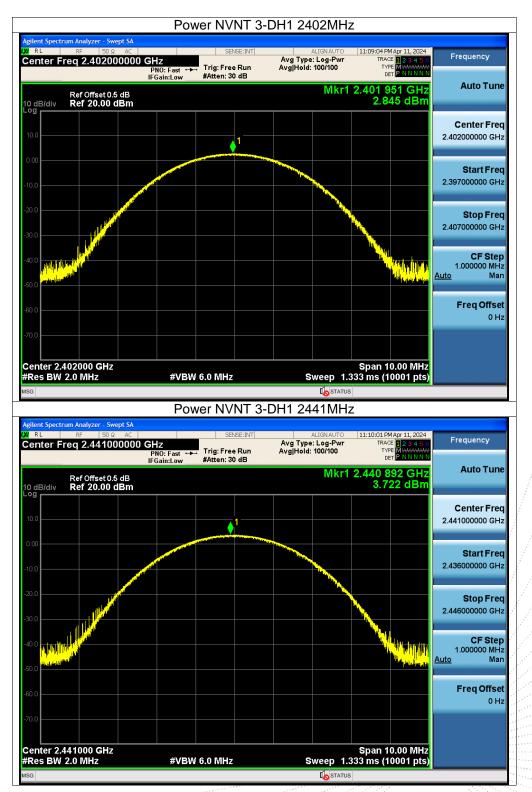






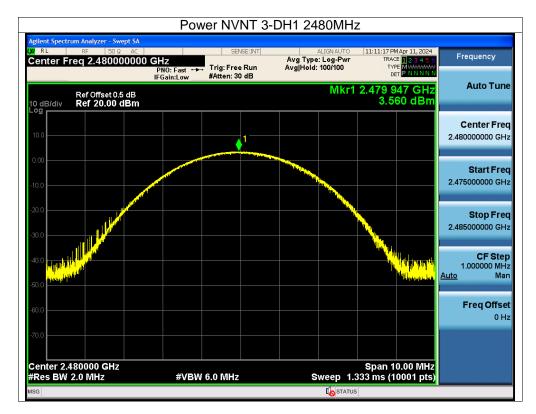














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12. Hopping Channel Separation

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.

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2402.024	2403.02	0.996	0.583	Pass
NVNT	1-DH1	2441.022	2442.026	1.004	0.597	Pass
NVNT	1-DH1	2479.024	2480.022	0.998	0.63	Pass
NVNT	2-DH1	2402.026	2403.024	0.998	0.957	Pass
NVNT	2-DH1	2441.026	2442.03	1.004	0.961	Pass
NVNT	2-DH1	2479.022	2480.026	1.004	0.955	Pass
NVNT	3-DH1	2402.024	2403.028	1.004	0.969	Pass
NVNT	3-DH1	2441.028	2442.026	0.998	0.959	Pass
NVNT	3-DH1	2479.024	2480.026	1.002	0.964	Pass

12.4 Test Result

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		CI	-S NVNT	3-DH1	2480MHz			
Agilent Spect	rum Analyzer - Swept SA							
	RF 50 Ω AC req 2.479500000	GHz PNO: Wide G IFGain:Low	Trig: Free Ru #Atten: 30 dB	Avg un Avg	ALIGN AUTO Type: Log-Pwr Hold:>100/100	TRAC	4 Apr 11, 2024 12 3 4 5 6 PE MWWWWW ET P N N N N N	Frequency
10 dB/div Log	Ref Offset 0.5 dB Ref 20.00 dBm				Mkr1	2.479 0 -0.80	24 GHz 09 dBm	Auto Tune
				~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	L	Center Freq 2.479500000 GHz
-20.0								<b>Start Freq</b> 2.478500000 GHz
-50.0 -60.0 -70.0								<b>Stop Freq</b> 2.480500000 GHz
Center 2. #Res BW	479500 GHz 30 kHz	#VBV	V 100 kHz		Sweep 2	Span 2. .133 ms (*	.000 MHz 1001 pts)	<b>CF Step</b> 200.000 kHz
MKR MODE T	f 2.479	024 GHz	۲ -0.809 dBm		FUNCTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> Man
2 N 3 4 5 6		026 GHz	-0.881 dBm					<b>Freq Offset</b> 0 Hz
8 7 8 9 10								
11							×	
MSG						6		



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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			$\Pi / /$	
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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	Hons				
gilent Spectrum Analyzer -		ng NO. NVN	T 1-DH1 2441M	1Z	
	DΩ AC	SENSE:INT	Avg Type: Log-Pwr	10:31:56 PM Apr 11, 2024 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast G IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	DET P NNNNN	Auto Tune
Ref Offset 0 dB/div Ref 20.0	0.5 dB 0 dBm		Mkr1 2.4	01 837 0 GHz 0.885 dBm	Auto rune
				2	Center Frea
		AUVILLA AUVILLA AUVILLA	MANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ANARAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2.441750000 GHz
10.0 <b>-                                    </b>	<u>ĸŇŤŇĂŇĂŇĂŔŔŇĂŎĬŔŎſ</u>	,	*****	ſŸŨŶŨŸŸĬŢĬŰŸ	Start Freq
30.0					2.400000000 GHz
40.0 <b>-</b>				W.	
50.0				1/1	Stop Freq 2.483500000 GHz
tart 2.40000 GHz Res BW 100 kHz	#VB\	V 300 kHz		op 2.48350 GHz 00 ms (1001 pts)	CF Step 8.350000 MHz
IKR MODE TRC SCL	× 2.401 837 0 GHz	0.885 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 N 1 f 3 4	2.479 993 0 GHz	1.637 dBm			Freq Offset
5 6					0 Hz
7 8 9					
0				✓	
G		IIII			
	Норрі	ng No. NVN	Г 2-DH1 2441MI	Ηz	
<mark>gilent Spectrum Analyzer</mark> - RL RF 5	Swept SA D Ω AC	SENSE:INT		10:38:50 PM Apr 11, 2024	F
enter Freq 2.441	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 123456 TYPE MWWWWWW DET P N N N N N	Frequency
Ref Offset	IFGain:Low	#Atten: 50 dB	Mkr1 2.4	01 837 0 GHz	Auto Tune
0 dB/div Ref 20.0	0 dBm			0.022 dBm	
		<u></u>	MMMMMMMM		Center Freq 2.441750000 GHz
10.0	ͻͶϟͲϙϤͷͻϫϏͻϦϭϫͷϤΫϭ·	14040404040404040	00000000000000000000000000000000000000	140400640004	
20.0					Start Freq
40.0					2.400000000 GHz
50.0					Stop Freq
70.0					2.483500000 GHz
Start 2.40000 GHz				op 2.48350 GHz	CF Step
KRES BW 100 KHZ	#VB\	V 300 kHz Y FL	Sweep 8.01	DO ms (1001 pts)	8.350000 MHz Auto Man
1 N 1 f 2 N 1 f	2.401 837 0 GHz 2.480 327 0 GHz	0.022 dBm -2.888 dBm			Eros Offert
3 4 5					Freq Offset 0 Hz
6					
8 9					
				×	
· · · · · · · · · · · · · · · · · · ·					



Hopping No. NVNT 3-DH1 2441MHz							
Agilent Spectrum Analyzer - Swept SA	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	10:46:28 PM Apr 11, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency			
PNO: Fast IFGain:Lov Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBm			402 004 0 GHz 0.423 dBm	Auto Tune			
10.0 10.0 10.0 10.0	www.www.ww	hunnaahuuhhaa	www.www.	Center Freq 2.441750000 GHz			
-20.0				<b>Start Freq</b> 2.40000000 GHz			
-50.0 -60.0 -70.0				<b>Stop Freq</b> 2.483500000 GHz			
Start 2.40000 GHz #Res BW 100 kHz #V	'BW 300 kHz		Stop 2.48350 GHz 000 ms (1001 pts)	CF Step 8.350000 MHz Auto Man			
MKR         MODE         TRC         SCL         X           1         N         1         f         2.402 004 0 GHz           2         N         1         f         2.402 014 0 GHz           3         4         5         5         5	Y FU 0.423 dBm -2.090 dBm	ICTION FUNCTION WIDTH	FUNCTION VALUE	Auto Man Freq Offset 0 Hz			
6 7 8 9 10 11							
MSG	IIII	<b>STATUS</b>					

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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).

#### 14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

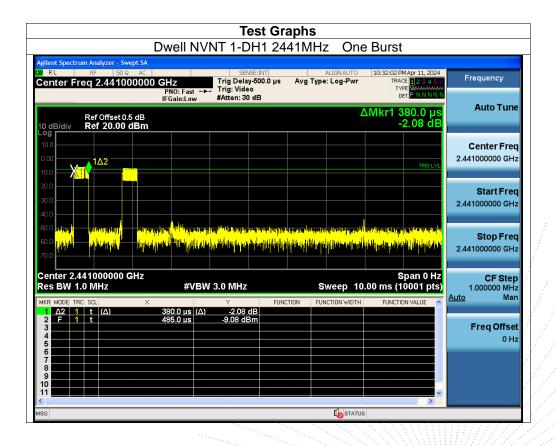
DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

DH5:1600/79/6*0.4*79*(MkrDelta)/1000
DH3:1600/79/4*0.4*79*(MkrDelta)/1000
DH1:1600/79/2*0.4*79*(MkrDelta)/1000
Remark: Mkr Delta is once pulse time.

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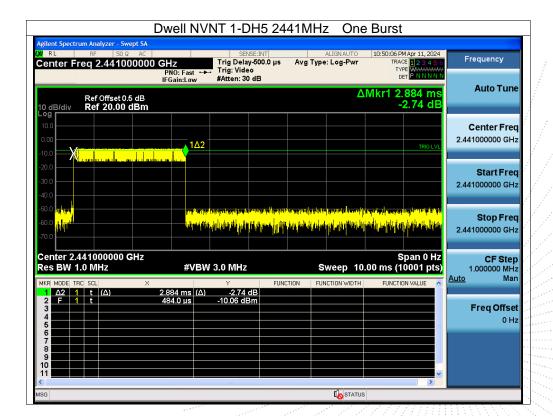
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (s)	Limit (s)	Verdict
NVNT	1-DH1	2441	0.38	0.122	0.4	Pass
NVNT	1-DH3	2441	1.636	0.262	0.4	Pass
NVNT	1-DH5	2441	2.884	0.308	0.4	Pass
NVNT	2-DH1	2441	0.389	0.124	0.4	Pass
NVNT	2-DH3	2441	1.641	0.263	0.4	Pass
NVNT	2-DH5	2441	2.889	0.308	0.4	Pass
N∨NT	3-DH1	2441	0.39	0.125	0.4	Pass
NVNT	3-DH3	2441	1.64	0.262	0.4	Pass
NVNT	3-DH5	2441	2.891	0.308	0.4	Pass



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	Dwe	II NVNT 1-D	H3 2441M	IHz One	e Burst	
Agilent Spectrum Anal						
Center Freq 2	50 Ω AC .441000000 GHz	Trig Dela		ALIGNAUTO Type: Log-Pwr	10:48:25 PM Apr 11, 2024 TRACE 123456	Frequency
	PNO: IFGair	Fast +++ Trig: Vide n:Low #Atten: 30			DET P N N N N	
	Dffset 0.5 dB 20.00 dBm			Δ	Mkr1 1.636 ms -0.65 dB	Auto Tune
10.0	<u>1∆2</u>					Center Freq
0.00 X2					TRIG LVL	2.441000000 GHz
-20.0						Start Freq
-30.0						2.441000000 GHz
-50.0		in , dia tanàna mandritra dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina d	trati na sector parta la manul pera	er er en den besen som ble	Periodian Contra participation di ana an	
-60.0 <mark>m/m/n</mark>		and the state of the second state	n ang allocated af a para dan i		raine na di seda ja ja di dikenja a daken pra	<b>Stop Freq</b> 2.441000000 GHz
-70.0						
Center 2.44100 Res BW 1.0 MH		#VBW 3.0 MHz		Sweep 10	Span 0 Hz .00 ms (10001 pts)	CF Step 1.000000 MHz
MKR MODE TRC SCL	× (A) 1.636	ms (Δ) -0.65	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 F 1 t	498.0					Freq Offset
4 5					=	0 Hz
6 7 8						
9						
11 <					×	
MSG					3	







D	well NVNT 2-DH1	2441MHz One	e Burst	
Agilent Spectrum Analyzer - Swept SA           IM         RF         50 Ω         AC           Center Freq 2.441000000 G	Hz SENSE:INT Hz Trig Delay-500.0 PN0: Fast ↔ Trig: Video	ALIGNAUTO µs Avg Type: Log-Pwr	10:38:56 PM Apr 11, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBm	FGain:Low #Atten: 30 dB		ΔMkr1 389.0 μs 2.51 dB	Auto Tune
			TRIG LVL	Center Freq 2.441000000 GHz
-10.0 200 -20.0				<b>Start Freq</b> 2.441000000 GHz
	n Den efter filmen under seiten sternen in seiten fi Annen finder of dasse besternen andere seiten.	n an a transmission and a transmission and a state of the	<mark>y a hina na ang kang ang kang ang kang kang ka</mark>	<b>Stop Freq</b> 2.441000000 GHz
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 10	Span 0 Hz .00 ms (10001 pts)	<b>CF Step</b> 1.000000 MHz Auto Man
	Υ         2.51 dB           369.0 μs         -10.72 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
6 7 8 9 10				
11 MSG		STATUS	3	

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#### Dwell NVNT 2-DH3 2441MHz One Burst RL PM Apr 11, 2024 Center Freq 2.441000000 GHz PN0:Fast →→ IFGain:Low Frequency Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Avg Type: Log-Pwr TYPE DET Auto Tune ΔMkr1 1.641 ms 2.79 dB Ref Offset 0.5 dB Ref 20.00 dBm lB/di√ ▲1∆2 **Center Freq** 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq ing all showing pu i a May initelitin ality (by), 2.441000000 GHz CF Step 1.000000 MHz Man Center 2.441000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz Auto 1.641 ms (Δ) 498.0 μs 2.79 dE -0.99 dBm 1 t 1 t Freq Offset 0 Hz

**STATUS** 



D	well NVNT 2-DH5 24	41MHz One	e Burst		
Agilent Spectrum Analyzer - Swept SA					
Center Freq 2.441000000 G	SENSE:INT Trig Delay-500.0 μs	ALIGNAUTO Avg Type: Log-Pwr	10:52:55 PM Apr 11, 2024 TRACE 123456	Frequency	
	PNO: Fast +++ Trig: Video FGain:Low #Atten: 30 dB		DET P N N N N		
Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBm		Δ	Mkr1 2.889 ms 1.37 dB	Auto Tune	
	1Δ2			Center Freq	
0.00 X2			TRIG LVL	2.441000000 GHz	
-20.0				Start Freq	
-40.0				2.441000000 GHz	
-50.0	never presidents a constitution for the standard for a second second second second second second second second		nin serapileting per star from adda da da titut di ada bara a	Stop Freq	
-70.0	all we also a later of a second		and the second second second	2.441000000 GHz	
Center 2.441000000 GHz Res BW 1.0 MHz					
	889 ms (Δ) 1.37 dB	CTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man	
2 F 1 t 4 3 4	98.0 µs 0.26 dBm			Freq Offset 0 Hz	
5 6 7				0 Hz	
8					
			×		
MSG		<b>I</b> STATUS			

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gilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC		SENSE:INT		ALIGN AUTO	10:46:34 PM Apr	11 2024	
enter Freg 2.441000000 (	GHz	Trig Delay-500.		/pe: Log-Pwr	TRACE	23456	Frequency
	PNO: Fast ++ IFGain:Low	Trig: Video #Atten: 30 dB			TYPE W DET P	NNNNN	
	IFGall:LOW	WARTER OF US			Mkr1 390	0.00	Auto Tune
Ref Offset 0.5 dB D dB/div Ref 20.00 dBm				-		6 dB	
og							
0.0							Center Free
						TRIG LVL	2.441000000 GH
0.0							Start Free
0.0							2.441000000 GH
0.0							2.44100000 GH.
		a harrow was devolated a contribu		distant na angkantan	ille to transfer a tracter	t interior	2.44 1000000 GH.
				a sa la sa la sa	Hipelog percetting from ya elistika di mata mataka		Stop Free
				a sa la sa la sa			
				a sa la sa la sa	<mark>Appoletication</mark>		Stop Free
enter 2.441000000 GHz	<mark>, di A</mark> biliano a	allerid alleria alleria a	<mark>ten hijen de hijen v</mark> er	^a an kupanan ji ka	Spai	n 0 Hz	Stop Free 2.441000000 GH CF Step
enter 2.441000000 GHz es BW 1.0 MHz	<mark>, di A</mark> biliano a		herishi, ey shijini ti ya a	Sweep 10.	Spai .00 ms (1000	n 0 Hz 01 pts)	Stop Free 2.441000000 GH: CF Step 1.000000 MH:
0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td>#UNDER</td> <td>V 3.0 MHz</td> <td>herishi, ey shijini ti ya a</td> <td>^aan kupanan ji ka</td> <td>Spai</td> <td>n 0 Hz 01 pts)</td> <td>Stop Fred 2.441000000 GH: CF Step</td>	#UNDER	V 3.0 MHz	herishi, ey shijini ti ya a	^a an kupanan ji ka	Spai	n 0 Hz 01 pts)	Stop Fred 2.441000000 GH: CF Step
0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td><mark>, di A</mark>biliano a</td> <td>V 3.0 MHz</td> <td>herishi, ey shijini ti ya a</td> <td>Sweep 10.</td> <td>Spai .00 ms (1000</td> <td>n 0 Hz 01 pts)</td> <td>Stop Free 2.44100000 GH: CF Step 1.000000 MH: A<u>uto</u>Mar</td>	<mark>, di A</mark> biliano a	V 3.0 MHz	herishi, ey shijini ti ya a	Sweep 10.	Spai .00 ms (1000	n 0 Hz 01 pts)	Stop Free 2.44100000 GH: CF Step 1.000000 MH: A <u>uto</u> Mar
0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td>#VBV 390.0 μs (Δ)</td> <td>V 3.0 MHz</td> <td>herishi, ey shijini ti ya a</td> <td>Sweep 10.</td> <td>Spai .00 ms (1000</td> <td>n 0 Hz 01 pts)</td> <td>Stop Free 2.44100000 GH: CF Step 1.00000 MH: Auto Mar Freq Offse</td>	#VBV 390.0 μs (Δ)	V 3.0 MHz	herishi, ey shijini ti ya a	Sweep 10.	Spai .00 ms (1000	n 0 Hz 01 pts)	Stop Free 2.44100000 GH: CF Step 1.00000 MH: Auto Mar Freq Offse
enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL × 1 Z 1 t (Δ) 2 Z 1 t (Δ) 3 4	#VBV 390.0 μs (Δ)	V 3.0 MHz	herishi, ey shijini ti ya a	Sweep 10.	Spai .00 ms (1000	n 0 Hz 01 pts)	Stop Free 2.44100000 GH: CF Step 1.000000 MH: A <u>uto</u> Mar
Image: Second	#VBV 390.0 μs (Δ)	V 3.0 MHz	herishi, ey shijini ti ya a	Sweep 10.	Spai .00 ms (1000	n 0 Hz 01 pts)	Stop Free 2.44100000 GH: CF Step 1.00000 MH: Auto Mar Freq Offse
No.0         No.0 <t< td=""><td>#VBV 390.0 μs (Δ)</td><td>V 3.0 MHz</td><td>herishi, ey shijini ti ya a</td><td>Sweep 10.</td><td>Spai .00 ms (1000</td><td>n 0 Hz 01 pts)</td><td>Stop Free 2.44100000 GH: CF Step 1.00000 MH: Auto Mar Freq Offse</td></t<>	#VBV 390.0 μs (Δ)	V 3.0 MHz	herishi, ey shijini ti ya a	Sweep 10.	Spai .00 ms (1000	n 0 Hz 01 pts)	Stop Free 2.44100000 GH: CF Step 1.00000 MH: Auto Mar Freq Offse
50.0         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ <thμ< th="">         μ         <thμ< th=""> <thμ< th=""></thμ<></thμ<></thμ<>	#VBV 390.0 μs (Δ)	V 3.0 MHz	herishi, ey shijini ti ya a	Sweep 10.	Spai .00 ms (1000	n 0 Hz 01 pts)	Stop Free 2.44100000 GH CF Step 1.000000 MH Auto Mar Freq Offse



Dw	ell NVNT 3-DH3	2441MHz One	e Burst	
Agilent Spectrum Analyzer - Swept SA				
RL RF 50 Ω AC     Center Freq 2.441000000 GH;	ZENSE:INT ZENSE:INT ZENSE:INT	μs Avg Type: Log-Pwr	10:54:18 PM Apr 11, 2024 TRACE 1 2 3 4 5 6	Frequency
PN	0: Fast ↔ Trig: Video ain:Low #Atten: 30 dB		DET PNNNN	
Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBm		۵	Mkr1 1.640 ms -0.28 dB	Auto Tune
			TRIG LVL	Center Freq 2.441000000 GHz
-100 2 100 - 100 -20.0 -30.0 -40.0				Start Freq 2.441000000 GHz
-50.0 prod -60.0 prod -70.0 prod -70.0	han politik telefaki an bish polian tapata <mark>Ang boli telefaki ang kapina tapata politik</mark> Ang boli telefaki ang kapina tapata politik	inden af Antonin Angellen af 19. juli - Malander Angelen af Angelen af Angelen af 19. juli - Malander Angelen af Ang	u de ministra de la constante d La constante de la constante de La constante de la constante d	<b>Stop Freq</b> 2.441000000 GHz
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 10	Span 0 Hz 0.00 ms (10001 pts)	CF Step 1.000000 MHz
MKR MODE TRC SCL X	0 ms (Δ) -0.28 dB	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 F 1 t 353 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.0 µs -9.58 dBm			<b>Freq Offset</b> 0 Hz
6 7 8 9 9 10				
11			<b>▼</b>	
MSG			s	

#### Dwell NVNT 3-DH5 2441MHz One Burst RL 2 PM Apr 11, 2024 Center Freq 2.441000000 GHz PNO: Fast ---IFGain:Low Frequency Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Avg Type: Log-Pwr TYPE DET Auto Tune ΔMkr1 2.891 ms 3.33 dB Ref Offset 0.5 dB Ref 20.00 dBm lB/di√ <u>1∆2</u> **Center Freq** 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq TH 2.441000000 GHz CF Step 1.000000 MHz Man Center 2.441000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz Auto 3.33 dE -1.28 dBm 2.891 ms (Δ) 498.0 μs 1 t 1 t Freq Offset 0 Hz **STATUS**

# 



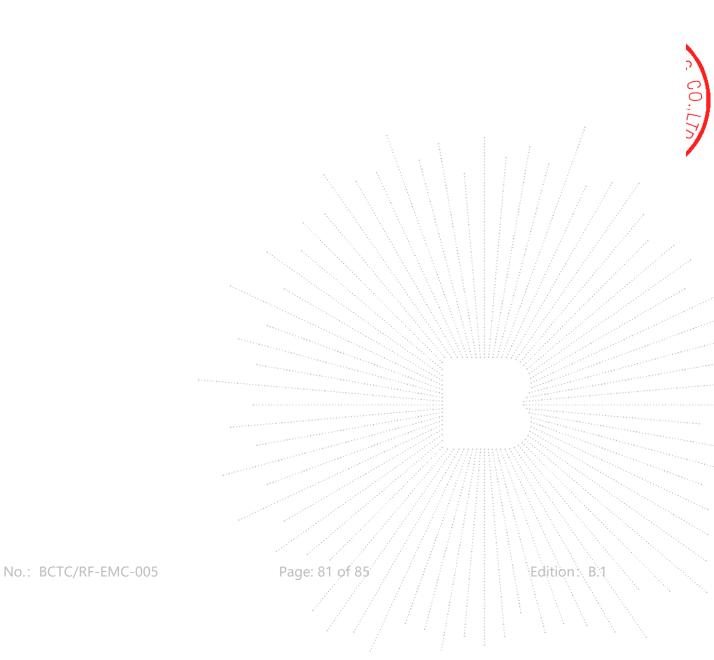
# 15. Antenna Requirement

#### 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 1







# NOTE: Appendix-Photographs Of EUT Constructional Details.

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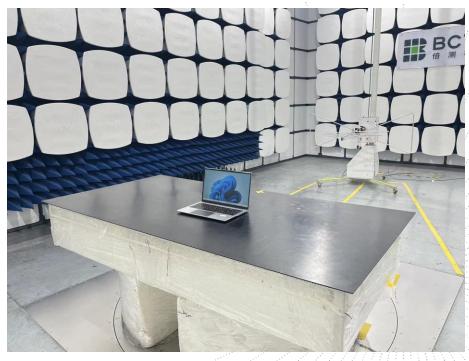


# 17. EUT Test Setup Photographs

## **Conducted Measurement Photo**



**Radiated Measurement Photos** 





BC

APPR

Pepoi







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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

E-Mail: bctc@bctc-lab.com.cn

***** END *****

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