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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.

odulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low Man	1.000	0.651	PASS
GFSK	Middle	1.002	0.617	PASS
GFSK	High ••••	0.996	0.573	PASS
π/4 DQPSK	Low	1.004	0.823	PASS
π/4 DQPSK	Middle	1.002	0.812	PASS
π/4 DQPSK	High	0.996	0.838	PASS
8DPSK	Low	1.000	0.813	PASS
8DPSK	Middle	1.004	0.811	PASS
8DPSK	High	0.998	0.818	PASS

12.4 Test Result

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			Graphs			
A silvest Currents A	-	FS NVNT 1	-DH1 24	402MHz		
	50 Ω AC	SENSE:INT	1	ALIGN AUTO		08:45:57 PM Jan 03, 202
enter Freq 2.40	PNO		Free Run n: 30 dB	#Avg Type: R Avg Hold:>10		TRACE 1 2 3 4 5 TYPE MWWW DET PNNN
Ref Offse dB/div Ref 20.	et 2.34 dB 00 dBm				Mkr1 2.	401 798 GH: -0.280 dBn
g						
				2^2		
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				~
.0						
.0						
.0						
.0						
.0						
enter 2.402500 G	H7					pan 2.000 MH
tes BW 30 kHz	112	#VBW 100	kHz			3 ms (1001 pts
R MODE TRC SCL	× 2.401 798 GHz	۲ -0.280 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION V	ALUE
N 1 f	2.402 798 GHz	-0.297 dBm				
						:
			11	l		•
				STATUS		
	С	FS NVNT 1	-DH1 24	441MHz		
Agilent Spectrum Analyzer · RL RF	- Swept SA 50 Ω AC	SENSE:INT	1	ALIGN AUTO		🗖 🗗 🛃
enter Freq 2.44	PNO		Free Run n: 30 dB	#Avg Type: R Avg Hold:>10		TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
Ref Offse dBidiy Ref 20					Mkr1 2.	440 796 GH: -0.631 dBn
dB/div Ref 20.1	00 dBm				Mkr1 2.	440 796 GH -0.631 dBn
Ref Offse dB/div Ref 20.				2 ²	Mkr1 2.	440 796 GH -0.631 dBn
dB/div Ref 20. g				2 2	Mkr1 2.	440 796 GH -0.631 dBn
dB/div Ref 20.				2 	Mkr1 2.	440 796 GH -0.631 dBn
dB/div Ref 20.				2 	Mkr1 2.	440 796 GH: -0.631 dBn
dB/div Ref 20./				2 	Mkr1 2.	440 796 GH: -0.631 dBn
dB/div Ref 20./ 9			~	2 	Mkr1 2.	440 796 GH: -0.631 dBn
dB/div Ref 20./				2 	Mkr1 2.	440 796 GH: -0.631 dBn
dB/div Ref 20.	00 dBm			2		-0.631 dBn
dB/div Ref 20.	00 dBm	#VBW 100			Sweep 2.13	440 796 GH; -0.631 dBn
dB/div Ref 20.	00 dBm	۲ -0.631 dBm				-0.631 dBn
dB/div Ref 20.	00 dBm	Y			Sweep 2.13	-0.631 dBn
dB/div         Ref 20.           9	00 dBm	۲ -0.631 dBm			Sweep 2.13	-0.631 dBn
dB/div         Ref 20.           9	00 dBm	۲ -0.631 dBm			Sweep 2.13	-0.631 dBn
dB/div Ref 20.	00 dBm	۲ -0.631 dBm			Sweep 2.13	-0.631 dBn
dB/div Ref 20.	00 dBm	۲ -0.631 dBm			Sweep 2.13	-0.631 dBn

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Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 2.479500	AC	SENSE:INT	ALIGN AUT	Type: RMS	08:50:05 PM TRACE	12345
	PNO:	Wide Trig: Free n:Low #Atten: 30	Run Avg	Hold:>100/100	TYPE DET	PNNN
Ref Offset 2.4 dB/div Ref 20.00 dl	dB Bm			Mk	(r1 2.478 80 -0.83	0 GH 4 dBn
				2		
		man -		$\sim$	non la compañía de la	
						han
0.0						
0.0						
enter 2.479500 GHz					Span 2.0	
Res BW 30 KHz	X		ICTION FUNCTION WID	-	D 2.133 ms (1	001 pts
1 N 1 f 2 N 1 f 3	2.478 800 GHz 2.479 796 GHz	-0.834 dBm -0.777 dBm				
4 5 6						
7						
3			STA			
Agilent Spectrum Analyzer - Swept		FS NVNT 2-D	H1 2402MH	Z		- 6
RL RF 50 Ω enter Freq 2.402500	AC DOOD GHz	SENSE:INT		Type: RMS	08:52:17 PN	
	DNO				TVPF	
	IFGai	Wide Trig: Free n:Low #Atten: 30		Hold:>100/100		
Ref Offset 2.34	IFGai I dB			Hold:>100/100	(r1 2.401 79	
Ref Offset 2.34 dB/div Ref 20.00 dl 9	IFGai I dB		) dB	Hold:>100/100	(r1 2.401 79	6 GH
Ref Offset 2.34 d dB/div Ref 20.00 dl 99 00 00 00 00 00 00 00 00 00	IFGai I dB		) dB	Hold:>100/100	(r1 2.401 79	6 GH
Ref Offset 2.34 Ref 20.00 dl	IFGai I dB		) dB	Hold:>100/100	(r1 2.401 79	6 GH
Ref Offset 2.34 Ref 20.00 dl	IFGai I dB		) dB	Hold:>100/100	(r1 2.401 79	6 GH
Ref Offset 2.34 Ref 20.00 dl 99 00 00 00 00 00 00 00 00 00 00 00 00	IFGai I dB		) dB	Hold:>100/100	(r1 2.401 79	6 GH
Ref Offset 2.34 Ref 20.00 dl 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IFGai I dB		) dB	Hold:>100/100	xr1 2.401 79 -0.29	6 GH 2 dBn
Ref Offset 2.34 Ref 20.00 dl 9 1 1 1 1 1 1 1 1 1 1 1 1 1	i dB Bm	#Atten: 30		Hold:>100/100	span 2.0 2.133 ms (1	6 GH 2 dBn
Ref Offset 2.34 Ref 20.00 dl 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.401 796 GHz	#VBW 100 kHz Y FUN -0.292 dBm		Hold:>100/100	span 2.0	6 GH 2 dBn
Ref Offset 2.34 Ref 20.00 dl 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	X	#VBW 100 kHz		Hold:>100/100	span 2.0 2.133 ms (1	6 GH 2 dBn
Ref Offset 2.34           Ref 20.00 dl           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0      <	2.401 796 GHz	#VBW 100 kHz Y FUN -0.292 dBm		Hold:>100/100	span 2.0 2.133 ms (1	6 GH 2 dBn
Ref Offset 2.34 Ref 20.00 dl 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.401 796 GHz	#VBW 100 kHz Y FUN -0.292 dBm		Hold:>100/100	span 2.0 2.133 ms (1	6 GH 2 dBn



Agilent Spectrum Ana R L RF	50 Ω AC	SENSE:IM	π	ALIGN AUTO		08:54:21 PM Jan 03, 20
enter Freq 2	441500000 GHz	PNO: Wide 🖵 Trig FGain:Low #Att	j: Free Run ten: 30 dB	#Avg Type: Avg Hold:>	RMS 100/100	TRACE 12345 TYPE MWWWW DET PNNNN
) dB/div Ref	0ffset 2.36 dB 20.00 dBm				Mkr1 2	.440 796 GH -0.663 dBn
og 0.0	1			^ <b>2</b>		
0.0	$\sim$		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$	$\sim \sim \sim \sim$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
0.0						
0.0						
0.0						
0.0						
enter 2.44150 Res BW 30 kH		#VBW 100	) kHz		Sweep 2.1	Span 2.000 MH 33 ms (1001 pts
KR MODE TRC SCL	× 2 440 796 GHz	Y		FUNCTION WIDTH	FUNCTION	
2 N 1 f 3	2.440 796 GHz 2.441 798 GHz	-0.650 dBm				
4 5 6						
7 8 9						
0						
G				STATUS		,
		CFS NVNT	2-DH1 24	480MHz		
Agilent Spectrum Ana RL RF	Iyzer - Swept SA 50 Ω AC 479500000 GHz	SENSE:IN	IT I	ALIGN AUTO #Avg Type:	RMS	08:56:22 PM Jan 03, 20
	1		: Free Run ten: 30 dB	Avg Hold:>	100/100	TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN
) dB/div Ref	offset 2.4 dB <b>20.00 dBm</b>				Mkr1 2	.478 800 GH -0.838 dBn
	1			^ <b>2</b>		
					<u></u>	
0.0			×	<u> </u>		
0.0						
0.0						
0.0						
enter 2.47950	0 GH7					Span 2.000 MH
Res BW 30 kH	z	#VBW 100			Sweep 2.13	33 ms (1001 pts
	× 2.478 800 GHz 2.479 796 GHz	-0.838 dBm -0.819 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION	VALUE
1 N 1 f 2 N 1 f						
2 N 1 f 3 4						
1         N         1         f           2         N         1         f           3						
1         N         1         f           2         N         1         f           3         -         -         -           4         -         -         -           5         -         -         -           6         -         -         -         -						

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enter Freq 2.402	PN		g: Free Run	ALIGN AUTO #Avg Type Avg Hold:>		08:58:20 PM Ja TRACE 1 TYPE M DET P	2345
Ref Offset		ain:Low #A1	tten: 30 dB		Mkr1	2.401 798	GH
dB/div Ref 20.0						-0.627	dBr
0.0	<b>↓</b> 1						
					$ \begin{tabular}{c} \hline \end{tabular} t$	$\sim$	~~~
1.0							
1.0							
1.0							
1.0							
enter 2.402500 GH	łz					Span 2.00	
R MODE TRC SCL	X	#VBW 10	0 kHz	FUNCTION WIDTH		2.133 ms (10)	01 pt:
1 N 1 f 2 N 1 f	2.401 798 GHz 2.402 798 GHz	-0.627 dBm -0.643 dBm	- She Holy	. She non width	FUNC		
							Þ
				STATUS			
Agilent Spectrum Analyzer - S		CFS NVNT	3-DH1 2	441MHz			đ
	DΩ AC	SENSE:I		ALIGN AUTO #Avg Type	RMS	09:00:20 PM Ja TRACE	n 03, 20
	PN	0:Wide 😱 Tri ain:Low #At	g: Free Run tten: 30 dB	Avg Hold:>			NNN
Ref Offset dB/div Ref 20.0	2.36 dB 0 dBm				Mkr1	2.440 796 -0.992	GH dBr
				^ <b>2</b>		<u></u>	
		~~~~	~~~~~				~~~~
).0							
).0 							
.0 .0							
0.0							
enter 2.441500 GH Res BW 30 kHz	lz	#VBW 10	0 kHz		Sween 2	Span 2.00 2.133 ms (10	
R MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH		ION VALUE	
N 1 f N 1 f	2.440 796 GHz 2.441 800 GHz	-0.992 dBm -1.050 dBm					
3 I I I I I I I I I I I I I I I I I I I							
3 4 5 6 7 7							



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	CFS NVNT	3-DH1 2	2480MHz			
J Agilent Spectrum Analyzer - Swept SA	SENSE:		ALIGN AUTO		09:02:23 PM	
Center Freq 2.479500000 GHz	PNO: Wide Tri	g: Free Run tten: 30 dB	#Avg Typ Avg Hold		TRACE TYPE	1 2 3 4 5 MWWWW P NNNN
Ref Offset 2.4 dB 10 dB/div Ref 20.00 dBm				Mk	r1 2.478 79 -1.220	8 GHz 6 dBm
			2 ²			
-10.0						~~~~
-40.0						
-60.0						
Center 2.479500 GHz #Res BW 30 kHz	#VBW 10	0 kHz		Sweep	Span 2.0 2.133 ms (10	00 MH)01 pts
MKR MODE TRC SCL X 1 N 1 f 2.478 798 G 2 N 1 f 2.479 796 G 3	Y Hz -1.226 dBm Hz -1.145 dBm	FUNCTION	FUNCTION WIDTH	FU	NCTION VALUE	
4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						
8 9 9 10 11 11 11 11 11 11 11 11 11 11 11 11 11						
ISG ISG			STATUS			•



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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

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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Ho Agilent Spectrum Analyzer - Swept SA	Test Gr pping No. NVNT	1-DH1 2441MHz	
RL RF 50 Ω AC enter Freq 2.441750000 GHz	PNO: Fast Trig: Free IFGain:Low #Atten: 30		
Ref Offset 2.36 dB 0 dB/div Ref 20.00 dBm 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	AWAMAMAAAAA		Mkr1 2.402 004 0 GHz 1.347 dBm
00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		CTION FUNCTION WIDTH	Stop 2.48350 GHz Sweep 8.000 ms (1001 pts)
1 N 1 f 2.402.004.0 GH 2 N 1 f 2.480.076.5 GH 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - - 1 - - -	z 1.347 dBm z 0.169 dBm		E
s .		STATUS	•
HO Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.441750000 GHz	PNO: Fast Trig: Free		09:13:05 PM Jan 03, 2024 AS TRACE 12 34 5 //100 TYPE WWWW
Ref Offset 2.36 dB	IFGain:Low #Atten: 30		Mkr1 2.401 837 0 GHz 0.550 dBm
	ana	WWWWWWWWWWW	www.www.ww ²
tart 2.40000 GHz Res BW 100 kHz	#VBW 300 kHz		Stop 2.48350 GHz Sweep 8.000 ms (1001 pts)
NODE TCI SCL X 1 N 1 f 2.401 837 0 GH 2 N 1 f 2.401 837 0 GH 3 4 -	z 0.550 dBm	CTION FUNCTION WIDTH	FUNCTION VALUE
8 9 0 1			



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Нор	oping No. N	/NT 3-D	H1 2441N	lHz		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.441750000 GHz		nt g: Free Run ten: 30 dB	ALIGN AUTO #Avg Ty Avg Hole	pe: RMS d:>100/100	09:17:13 TRAI TY	PM Jan 03, 20 PE 1 2 3 4 5 PE M PE NNNN
Ref Offset 2.36 dB 10 dB/div Ref 20.00 dBm				Mkr1	2.401 41 -7.3	9 5 GH 70 dBn
	LANDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	NWWWW.	ֈՙֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈ	MANAAAAA	¥¥YATP¥V\¥	<i>π</i> η∧γ ²
-00 0						N
70.0 GHz Start 2.40000 GHz Res BW 100 kHz	#VBW 30	0 kHz		Sweep	Stop 2.4	8350 GH 1001 pt
MKR MODE TRCI SCL X 1 N 1 f 2.401 419 5 GHz 2 N 1 f 2.480 410 5 GHz 3 4		FUNCTION	FUNCTION WIDTH	FU	INCTION VALUE	
5 6 7 8 9 9						
sg		III	STATUS			4





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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.

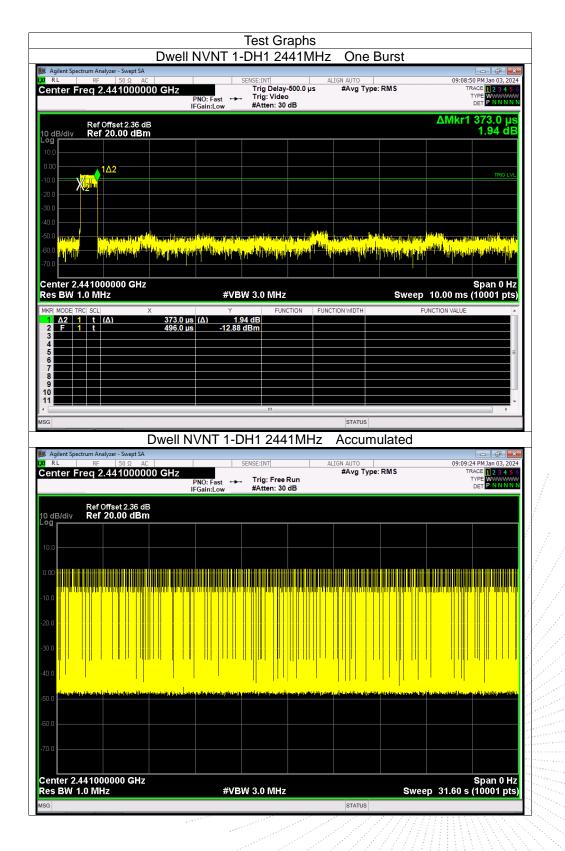
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.373	118.614	318	31600	400	Pass
1-DH3	2441	1.62	257.58	159	31600	400	Pass
1-DH5	2441	2.868	304.008	106	31600	400	Pass
2-DH1	2441	0.377	120.64	320	31600	400	Pass
2-DH3	2441	1.633	261.28	160	31600	400	Pass
2-DH5	2441	2.881	305.386	106	31600	400	Pass
3-DH1	2441	0.377	119.886	318	31600	400	Pass
3-DH3	2441	1.63	259.17	159	31600	400	Pass
3-DH5	2441	2.877	304.962	106	31600	400	Pass

14.4 Test Result

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









Agilent Spectrum Analyzer	- Swept SA	NT 1-DH3 244		Burst		đ 🔀
RL RF Renter Freq 2.44	50 Ω AC 1000000 GHz PNO:	SENSE:INT Trig Delay-500 Fast Here Trig: Video	ALIGN AUTO D.0 μs #Avg Ty	pe: RMS	09:19:54 PM Jar TRACE 1 TYPE W	n 03, 2024 <mark>2 3 4 5</mark> 6
	PNO: IFGain				DET P	NNNN
0 dB/div Ref 20	et 2.36 dB .00 dBm				ΔMkr1 1.62 0.6	5 dB
og 10.0						
	1Δ2					TRIG LVL
20.0 X2²¹						
40.0		narrie (allenner 110) pieces (and and and and and and and and and and				
50.0 <mark>איזי²איזאר</mark>	A second the first second s	il de la facta da facta da la facta da			and a the particular of the state	'n <mark>`rpj</mark> 'min
50.0 <mark>1111.11</mark>	diampi, and private	and the second	in and the second second second	a a and a contraction of the		Autolia) ^a
enter 2.4410000					Snar	n 0 Hz
les BW 1.0 MHz		#VBW 3.0 MHz		· · · ·	10.00 ms (1000	
MR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t	× 1.620 ms (Δ) 486.0 μs	Y FUNCTIO 0.65 dB 17 09 dBm	N FUNCTION WIDTH	FU	INCTION VALUE	
	486.0 µs	-17.09 dBm				
5						
7 8 9						
10						-
G		m	STATUS			•
		T 1-DH3 2441				
	Dweil NVN	I I-DH3 244 II	VIHZ ACCU	nulated		
RL RF	- Swept SA 50 Ω AC		ALIGN AUTO		09:20:28 PM Jar	
RL RF	- Swept SA 50 Ω AC 10000000 GHz PNO:	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RL RF enter Freq 2.44	- Swept SA 50 Ω AC 10000000 GHz	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RL RF center Freq 2.44 Ref Offs 0 dB/div Ref 20.	- Swept SA 50 Ω AC -10000000 GHz IFGain	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RL RF Ref Offs 0 dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
Ref Offs a dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
Ref Offs a dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
enter Freq 2.44 Ref Offs	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RE Ref Offs o dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RL RF center Freq 2.44 Ref Offs 0 dB/div Ref 20. 0 dD/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RL RF center Freq 2.44 Ref Offs 0 dB/div Ref 20. 0 dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
enter Freq 2.44	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RL RF center Freq 2.44 Ref Offs 0 dB/div Ref 20. 0 dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024
Ref Offs o dB/div Ref 20. 99 10.0 10.0 10.0 10.0 10.0 10.0 10.0	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
Ref Offs o dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
Ref Offs o dB/div Ref 20.	- Swept SA 50 Ω AC PNO: PNO: IFGain et 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Ty		09:20:28 PM Jar TRACE	n 03, 2024 2 3 4 5 6
RL RF enter Freq 2.44 P dB/div Ref 20. O	- Swept SA 50 Q AC PNO: IFGain et 2.36 dB 00 dBm	SENSE:INT	ALIGN AUTO #Avg Ty			n 03,2024





🊺 Agilent Spectrum Analyzer - Swept		NVNT	1-DH5 2	441MHz	One E	Burst		- 6 -
Aginent spectrum Analyzer - swept RL RF 50 Ω Center Freq 2.441000	AC 0000 GHz	PNO: Fast IFGain:Low		y-500.0 μs eo	ALIGN AUTO #Avg Type	RMS	Т	52 PM Jan 03, 2024 RACE 1 2 3 4 5 6 TYPE WWWWWW DET P NNNNN
Ref Offset 2.36 10 dB/div Ref 20.00 d Log							ΔMkr1	2.868 ms -5.92 dB
10.0								
0.00		1Δ2	2					TRIG LVL
-20.0								
-40.0								
-50.0		alatera de la companya	nan a pres di present la Alaina kana kana biyang	an dharan babba <mark>da falsha da falsha</mark>	n sa ang kang sa kang s Kang sa kang sa	del la constanta de la la la constanta de la c	ni el el internet <mark>A ne en recente</mark>	ann a contaith ann an an Anna Anna Anna Anna Anna Ann
70.0			for the second					
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Center Freq 2.441000	0000 GHz	PNO: Fast IFGain:Low	T.:	e Run	#Avg Type	RMS	Т	RACE 123456 TYPE WWWWW DET PNNNNN
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enter 2.441000000 GH es BW 1.0 MHz		#VBW 3.0 MHz		Sweep 10.00 ms	Span 0 Hz s (10001 pts)
KR MODE TRC SCL 1 Δ2 1 t (Δ)	× 377.0 μs (Δ)	Y FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
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📕 Agilent Spectrum Analyzer		I NVNT 2			one -	Burst		
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Agilent Spectrum Analyzer	- Swept SA 50 Ω AC	PNO: Fast	DH3 244	AL	Accum		TI	15 PM Jan 03, 2024 RACE 1 2 3 4 5 (
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Agilent Spectrum Analyzer RL RF Center Freq 2.44 Ref Offse	- Swept SA 50 Ω AC 10000000 GHz	PNO: Fast	DH3 244 SENSE:INT . Trig: Free F	AL			TI	По
Agilent Spectrum Analyzer RL RF Center Freq 2.44 Ref Offse	- Swept SA 50 Ω AC 10000000 GHz et 2.36 dB	PNO: Fast	DH3 244 SENSE:INT . Trig: Free F	AL			TI	15 PM Jan 03, 2024
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Agilent Spectrum Analyzer - Swept SA	Dweirin	VINT Z-	DH5 24		One E	Burst		- ¢ ×
RL RF 50 Ω AC Center Freq 2.44100000	00 GHz	D: Fast ↔→	SENSE:INT Trig Delay Trig: Video #Atten: 30	-500.0 µs	LIGN AUTO #Avg Type:	RMS	TF	32 PM Jan 03, 2024 RACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N
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Agilent Spectrum Analyzer - Swept SA					Accum	ulateu		- 6 - ×
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	00 GHz): Fast ↔ iin:Low	Trig: Free #Atten: 30	Run	LIGN AUTO #Avg Type:	RMS	TF	06 PM Jan 03, 2024 RACE 1 2 3 4 5 6 TYPE WWWWWW DET P NNNNN
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A silent Construmt Analysis - Sugart CA				1 1 1 1 1 1 2	AUUU	mulatec		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC			SENSE:INT		ALIGN AUTO			:17:54 PM Jan 03, 2024
	00 GHz	PNO: Fast ←	🛻 Trig: Fre	e Run	ALIGN AUTO	ype: RMS		
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	50 Ω AC		g Delay-500.0 µs	ALIGN AUTO #Avg Type:	RMS	TF	25 PM Jan 03, 2024 RACE 1 2 3 4 5 6
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	et 2.36 dB					ΔMkr1	1.630 ms 1.29 dB
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Center 2.4410000 Res BW 1.0 MHz	00 GHz	#VBW 3.0	MHz		Sween	10.00 ms	Span 0 Hz (10001 pts)
MKR MODE TRC SCL	X	Y		ICTION WIDTH		JNCTION VALUE	A 100
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Agilent Spectrum Analyzer	- Swept SA				alatoa		- ē 🗙
RL RF Center Freq 2.44	PN		g: Free Run ten: 30 dB	ALIGN AUTO #Avg Type:	RMS	TF	89 PM Jan 03, 2024 RACE 1 2 3 4 5 6 TYPE WWWWWW DET P NNNN
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🎽 Agilent Spectrum Analyzer - Swept Si		Г 3-DH5 2441MH	z One B	urst	
Agilent Spectrum Analyzer - Swept S R RL RF 50 Ω Center Freq 2.441000	AC		ALIGN AUTO #Avg Type: F	RMS T	20 PM Jan 03, 2024 RACE 1 2 3 4 5 6 TYPE WWWWW DET PNNNN
Ref Offset 2.36 10 dB/div Ref 20.00 dB				ΔMkr1	2.877 ms -4.85 dB
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-70.0				ter dirte da an oktor i	
Center 2.441000000 GH Res BW 1.0 MHz		#VBW 3.0 MHz		Sweep 10.00 ms	Span 0 Hz (10001 pts)
MKR MODE TRC SCL	× 2.877 ms (Δ)		INCTION WIDTH	FUNCTION VALUE	
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10 11					
ISG			STATUS		
🗵 Agilent Spectrum Analyzer - Swept Si		3-DH5 2441MHz	Accumu	lated	
α RL RF 50 Ω Center Freq 2.441000	AC 000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: F	RMS T	55 PM Jan 03, 2024 RACE 1 2 3 4 5 6
	PNO: Fast IFGain:Low				DET P NNNNN
Ref Offset 2.36 10 dB/div Ref 20.00 dB					
10.0					
10.0					
100 0.00 1111 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
0.00 1111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 11 110					
0 00					
000					
0.00 10.0 20.0 30.0 10.0					
0.00 10.0 20.0 30.0 40.0 10.0					
		111 4 10 10 10 10 10 10 10 10 10 10 10 10 10		Sweep 31.60 s	Span 0 Hz



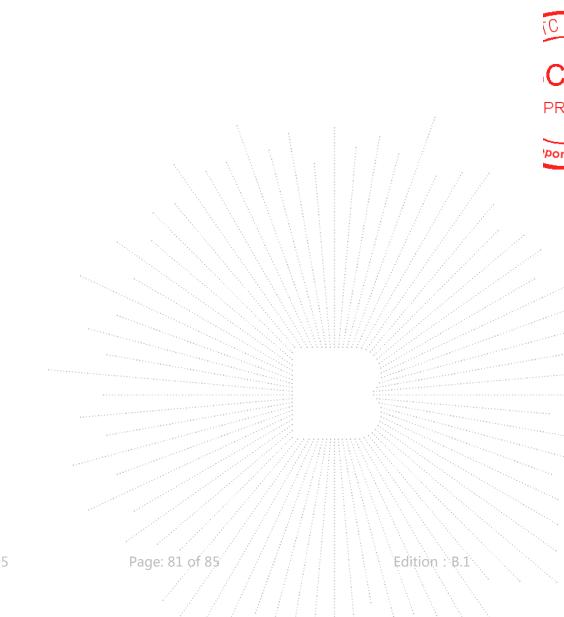
15. Antenna Requirement

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.



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16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

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17. EUT Test Setup Photographs

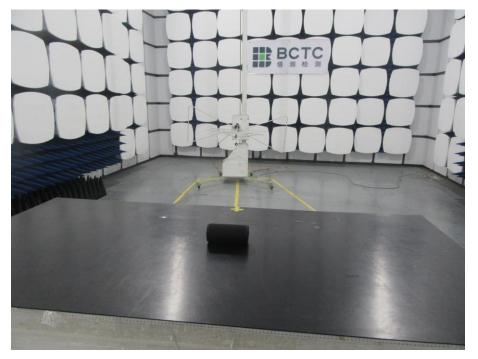
Conducted emissions



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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.

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***** END *****

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