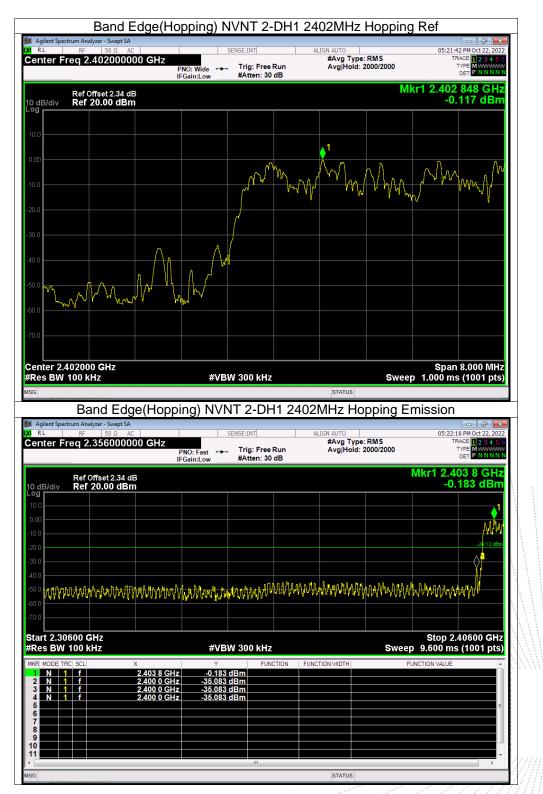




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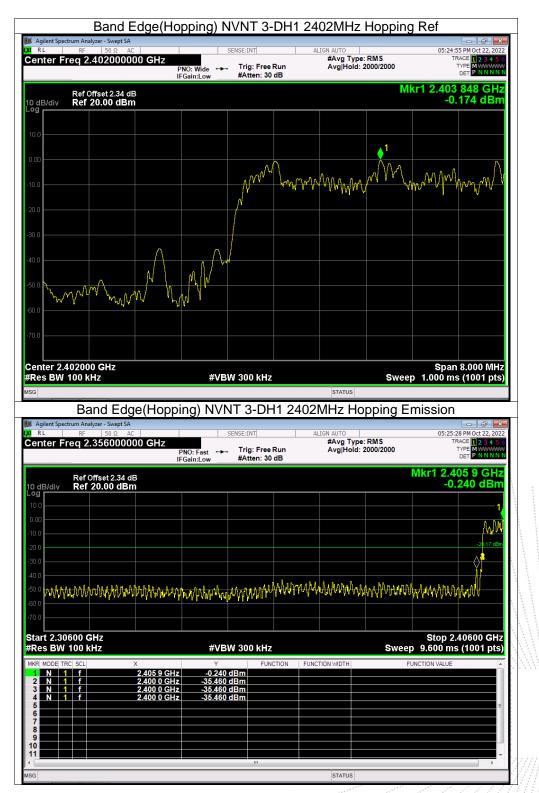




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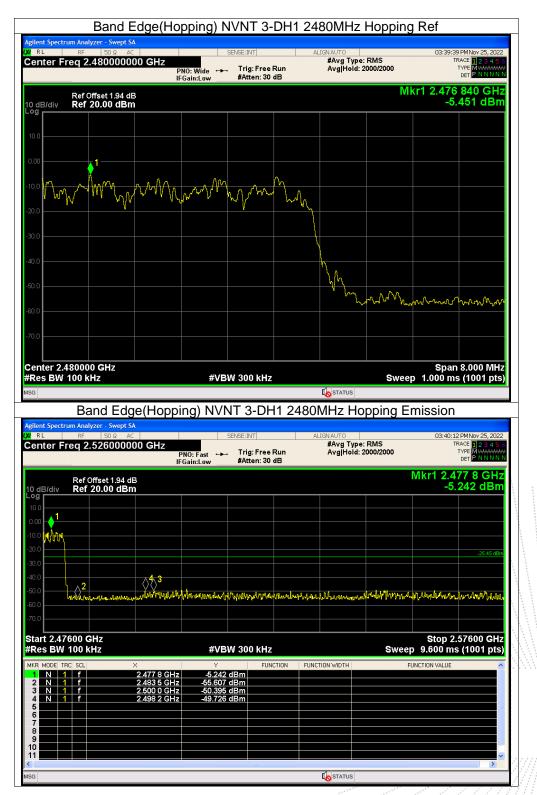
Page 44 of 82













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 20 dB relative to the maximum level measured in the fundamental emission.

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10.4 Test Result

Temperature :	26 ℃		Relative Humidity :	54%
Test Voltage :	DC 7.4	J	Remark	N/A
Modulation		Test Cha	annel	Bandwidth(MHz)
GFSK	GFSK		,	1.019
GFSK		Middl	e	1.03
GFSK		High	1	1.042
π/4DQPSK		Low	,	1.291
π/4DQPSK		Middl	e	1.296
π/4DQPSK		High	1	1.286
8DPSK		Low	,	1.276
8DPSK		Middl	e	1.28
8DPSK		High	1	1.259

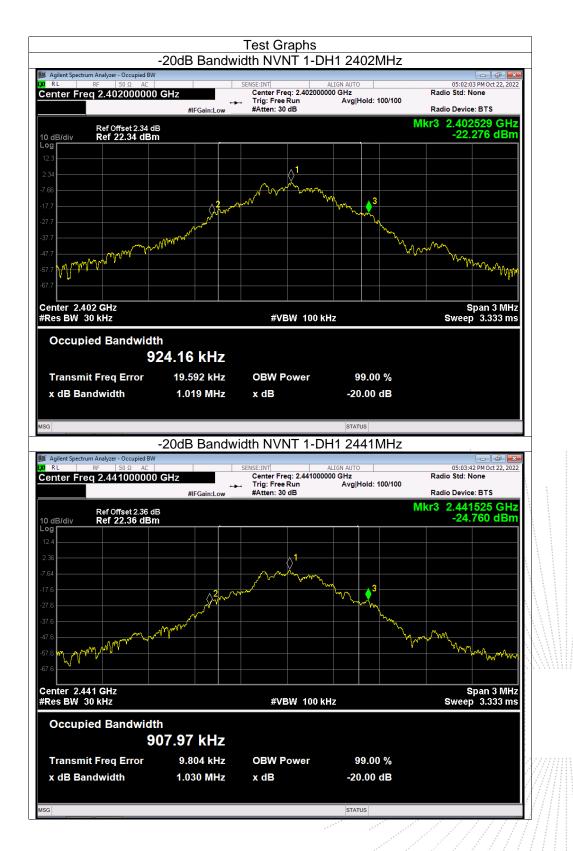
No.: BCTC/RF-EMC-005

Page 48 of 82

Edition: A.5

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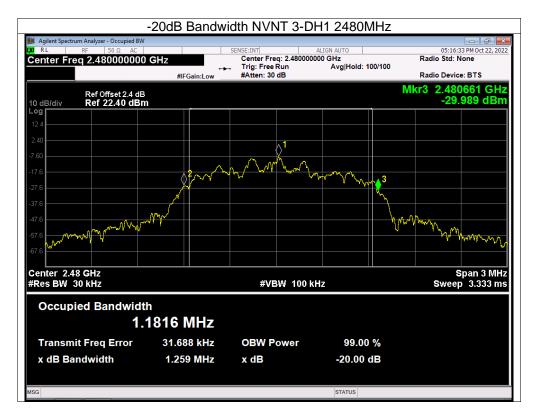


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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



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.

Page 54 of 82



11.4 Test Result

Temperature :	26 ℃	Relative Humidity :	54%	
Test Voltage :	DC 7.4V	Remark:	N/A	
Modulation	Test Channel	Output Power (dBm))	Limit (dBm)
GFSK	Low	Low 0.42		21
GFSK	Middle	-2.27		21
GFSK	High	-5.17		21
π/4DQPSK	Low	0.42		21
π/4DQPSK	Middle	-2.31		21
π/4DQPSK	High	-5.16		21
8DPSK	Low	0.39		21
8DPSK	Middle	-2.3		21
8DPSK	High	-5.17		21

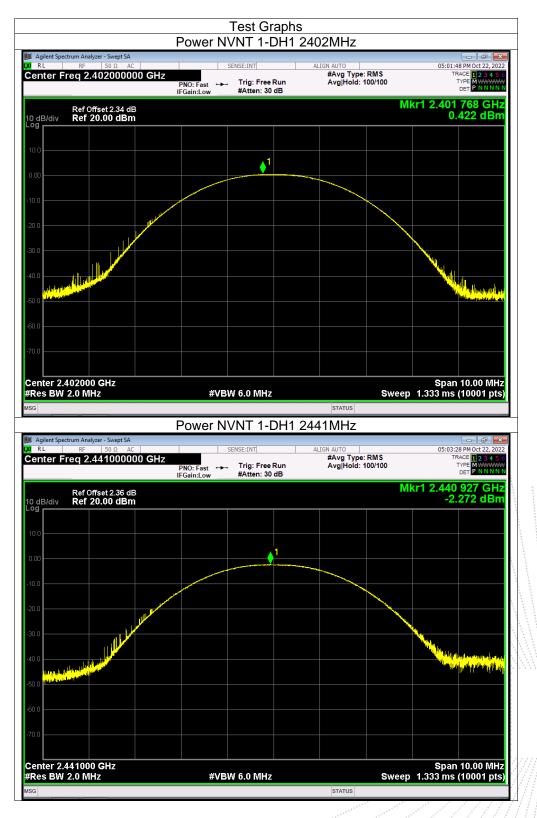
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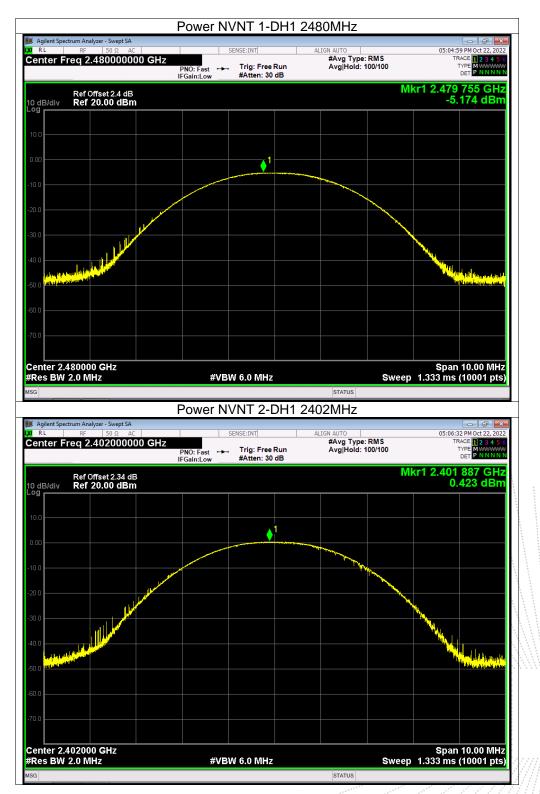
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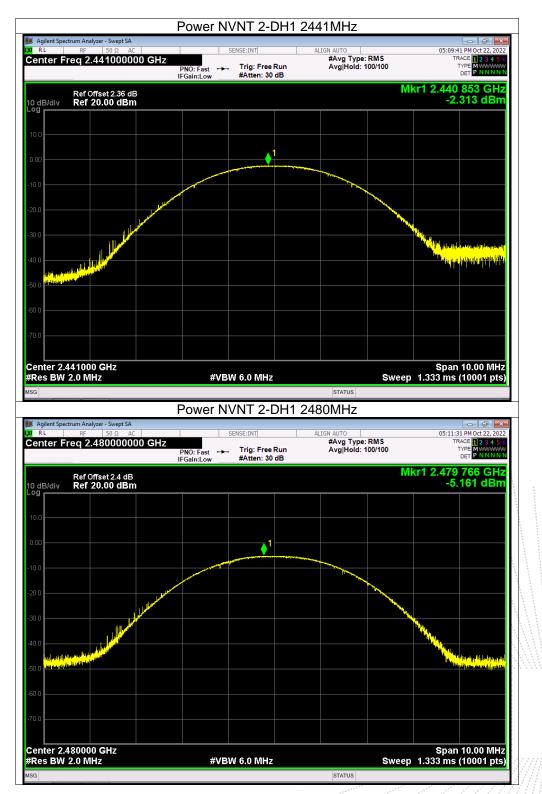




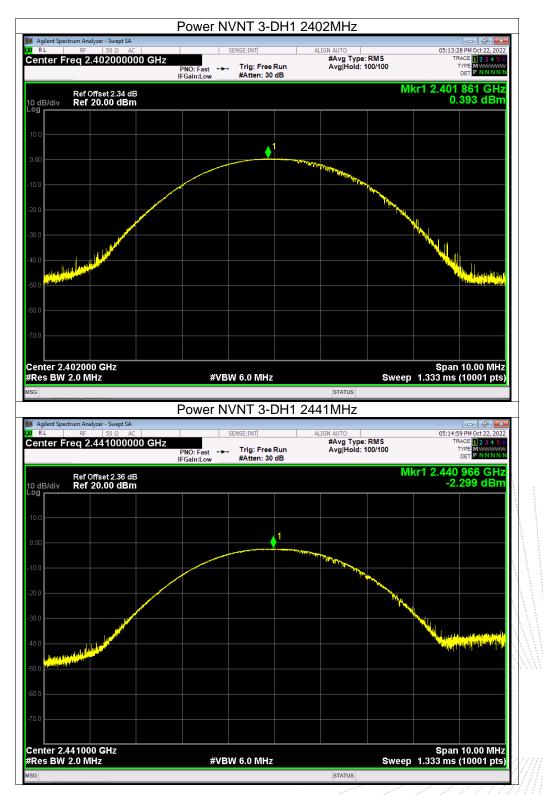


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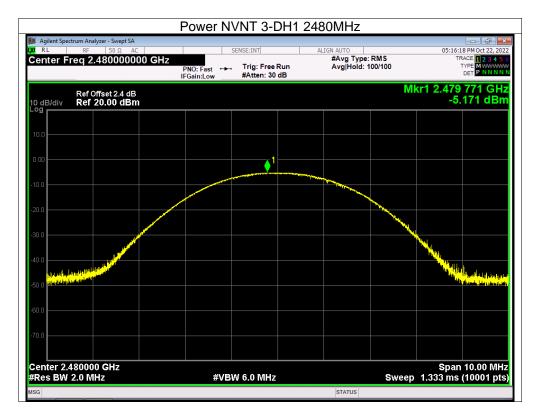






2 CO., LTA





No.: BCTC/RF-EMC-005

Page 60 of 82

Edition: A.5

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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.

No.: BCTC/RF-EMC-005

Page 61 of 82

Edition: A.5



12.4 Test Result

Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	1.004	0.679	PASS
GFSK	Middle	0.998	0.687	PASS
GFSK	High	0.998	0.695	PASS
π/4DQPSK	Low	1.002	0.861	PASS
π/4DQPSK	Middle	0.998	0.864	PASS
π/4DQPSK	High	0.992	0.857	PASS
8DPSK	Low	1	0.851	PASS
8DPSK	Middle	1	0.853	PASS
8DPSK	High	1	0.839	PASS

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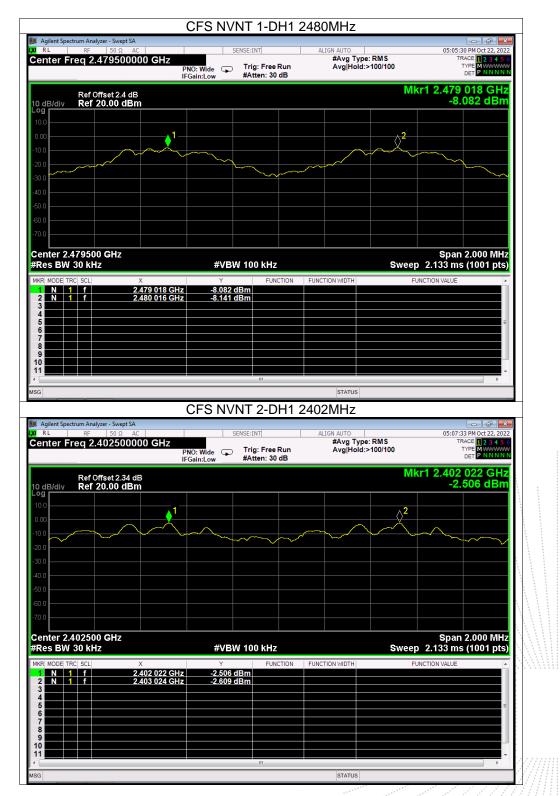
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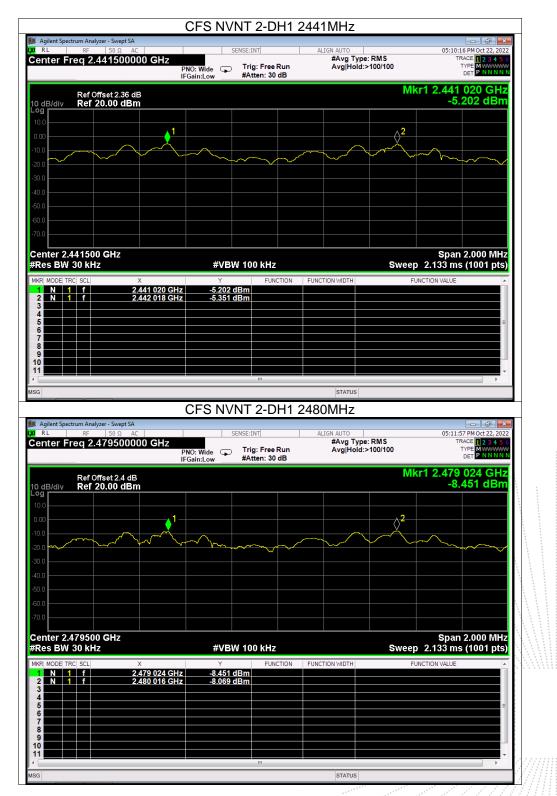
	Swept SA	CENCE-THE	ALCOME ALCOM	0	05:02:20 PM Oct 22, 2
nter Freq 2.402	2500000 GHz	SENSE:INT : Wide Trig: Fre in:Low #Atten: 3	eRun Avg	0 g Type: RMS Hold:>100/100	05:02:30 PM Oct 22, 2 TRACE 1 2 3 4 TYPE M WWW DET P N N N
Ref Offset dB/div Ref 20.0	: 2.34 dB			M	(r1 2.402 022 GF -2.497 dB
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enter 2.402500 GH tes BW 30 kHz	IZ	#VBW 100 kH	z	Sweep	Span 2.000 Mi 2.133 ms (1001 pt
N 1 f	X 2.402 022 GHz	Y FU -2.497 dBm	INCTION FUNCTION WID)TH FU	JNCTION VALUE
N 1 f	2.403 026 GHz	-2.614 dBm			
		III	STA	ITUS	4
		FS NVNT 1-E			4
Agilent Spectrum Analyzer - S R L RF 51	Swept SA 0 Ω AC		DH1 2441MH	iz	05:04:05 PM Ot 22, 2 TRACE
Agilent Spectrum Analyzer - S R L RF 51	Swept SA 0 Ω AC 500000 GHz PNO:	FS NVNT 1-[DH1 2441MH ALIGN AUT #Avg e Run Avg	lz	
Agilent Spectrum Analyzer - S RL RF SI Inter Freq 2.441 Ref Offset	Swept SA 0 Ω AC 5000000 GHz PNO: IFGai 12.36 dB	FS NVNT 1-[SENSE:INT	DH1 2441MH ALIGN AUT #Avg e Run Avg	o g Type: RMS Hold:>100/100	05:04:05 PM Oct 22, 2
Agilent Spectrum Analyzer - S RL RF SI Inter Freq 2.441 Ref Offset dB/div Ref 20.0	Swept SA 0 Ω AC 5000000 GHz PNO: IFGai 12.36 dB	FS NVNT 1-[SENSE:INT	DH1 2441MH ALIGN AUT #Avg e Run Avg	g Type: RMS Hold:>100/100	05:04:05 PM Oct 22, 2 TRACE 1 2 3 4 TYPE MWWW DET P NNN
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enter Freq 2.441 Ref Offset	Swept SA 0 Ω AC 5000000 GHz PNO: IFGai 12.36 dB	FS NVNT 1-[SENSE:INT	DH1 2441MH ALIGN AUT #Avg e Run Avg	g Type: RMS Hold:>100/100	05:04:05 PM Oct 22, 2 TRACE 1 2 3 4 TYPE MWWW DET P NNN
Agilent Spectrum Analyzer - S RL RF Si enter Freq 2.441 Ref Offset dB/div Ref 20.0 9 0 0 0	Swept SA 0 Ω AC 5000000 GHz PNO: IFGai 12.36 dB	FS NVNT 1-[SENSE:INT	DH1 2441MH ALIGN AUT #Avg e Run Avg	g Type: RMS Hold:>100/100	05:04:05 PM Oct 22, 2 TRACE 1 2 3 4 TYPE MWWW DET P NNN
Agilent Spectrum Analyzer - S RL RF Si Inter Freq 2.441 Ref Offset dB/div Ref 20.0	Swept SA 0 Ω AC 5000000 GHz PNO: IFGai 12.36 dB	FS NVNT 1-[SENSE:INT	DH1 2441MH ALIGN AUT #Avg e Run Avg	g Type: RMS Hold:>100/100	05:04:05 PM Oct 22, 2 TRACE 1 2 3 4 TYPE MWWW DET P NNN
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Agilent Spectrum Analyzer - S RL RF Si Inter Freq 2.441 Ref Offset dB/div Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 0 Q AC 500000 GHz PNO: IFGai 1 0 dBm 1	FS NVNT 1-[SENSE:INT	DH1 2441MH ALIGN AUT #Avg e Run Avg	g Type: RMS Hold:>100/100	05:04:05 PM OC 22, 2 TRACE 12:34 TYPE P NNN cr1 2:441 020 GH -5.210 dB -5.210 dB -5.210 dB
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Agilent Spectrum Analyzer - S RL RF Si Inter Freq 2.441 Ref Offset dB/div Ref 20.0 9 9 9 9 9 9 9 9 9 9 9 9 9	Swept SA 0 Q AC 500000 GHz PNO: IFGai 2.36 dB 0 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	FS NVNT 1-[DH1 2441MH	g Type: RMS Hold:>100/100	05:04:05 PM OOT 22, 2 TRACE 12 3 4 TYPE 7 DET P NNN Cr1 2.441 020 GH -5.210 dB
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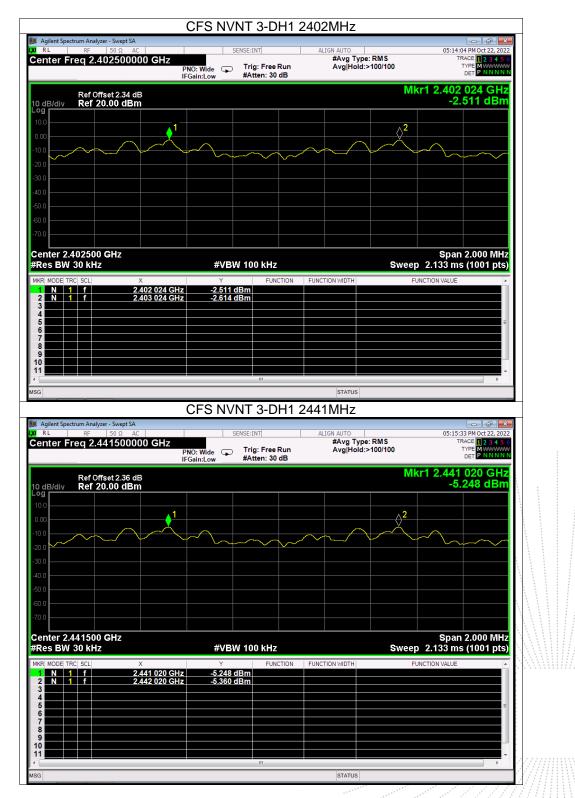






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📕 Agilent Spectrum Ar						
RL RF	50 Ω AC		SENSE:INT	ALIGN AUTO		05:28:16 PM Oct 22, 20
Center Freq 2	2.479500000 GHz	PNO: Wide 🕞 IFGain:Low	⊃ Trig: Free Run #Atten: 30 dB	#Avg Type: Avg Hold:>		TRACE 12345 TYPE MWWW DET PNNN
	Offset 2.4 dB				Mk	r1 2.479 016 GH -8.088 dBn
0 dB/div Rei	⁷ 20.00 dBm					-0.000 aBi
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3	2.100 010 0					
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7 8						
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11						

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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.

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

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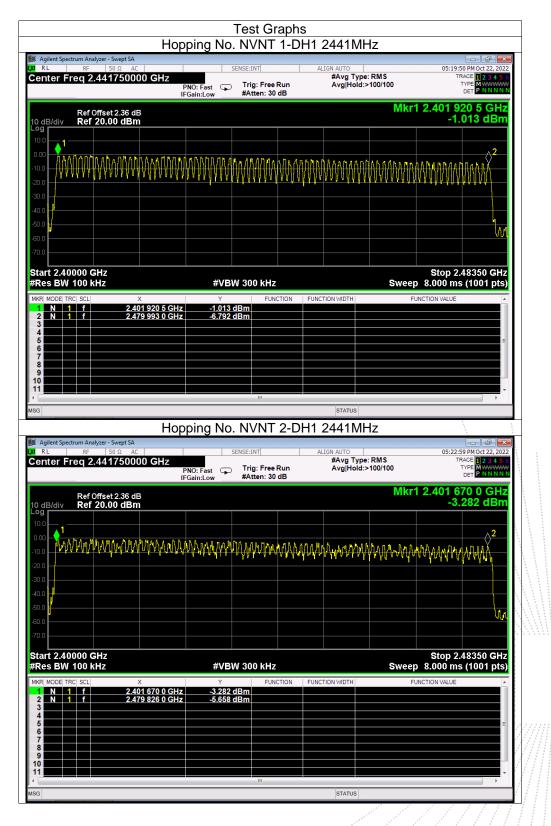
No.: BCTC/RF-EMC-005

Page 68 of 82

Edition: A.5



13.4 Test Result







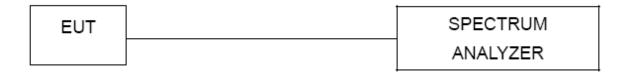
	r - Swept SA					
RL RF	50 Ω AC	SENSE:	INT	ALIGN AUTO	DMC	05:26:21 PM Oct 22, 20
enter Freq 2.44	PN		ig: Free Run .tten: 30 dB	#Avg Type Avg Hold:>		TRACE 1234 TYPE MWWW DET PNNN
	et 2.36 dB				Mkr1 2	.401 586 5 GH -4.438 dBr
odB/div Ref 20	.00 dBm					-4.400 0.01
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tart 2.40000 GHz						Stop 2.48350 GH
Res BW 100 kHz		#VBW 30				.000 ms (1001 pt
	× 2.401 586 5 GHz	۲ -4.438 dBm	FUNCTION	FUNCTION WIDTH	FUNCT	ON VALUE
KR MODE TRC SCL		-7.738 dBm				
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1 N 1 f 2 N 1 f 3 4	2.480 160 0 GHz	-1.136 UBIII				
2 N 1 f	2.480 160 0 GHz	-1.136 UBIII				
1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - -	2.480 160 0 GHz	-1.130 UBIII				
1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - -	2.480 160 0 GHz	-1.136 UDIII				

No.: BCTC/RF-EMC-005



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.

Modulation	Channel Data	Packet	pulse time(ms)	Dwell Time(s)	Limits(s)
		DH1	0.379	0.121	0.4
GFSK	Middle	DH3	1.643	0.263	0.4
		DH5	2.891	0.308	0.4
		2DH1	0.387	0.124	0.4
π/4DQPSK	Middle	2DH3	1.638	0.262	0.4
		2DH5	2.886	0.308	0.4
		3DH1	0.386	0.124	0.4
8DPSK	Middle	3DH3	1.635	0.262	0.4
		3DH5	2.886	0.308	0.4



RF 50 Ω		5	SENSE:INT		AUTO		05:19	56 PM Oct 22, 202
ter Freq 2.441000	PN	IO: Fast ↔→ Gain:Low	Trig Delay- Trig: Video #Atten: 30 d		#Avg Type: F	RMS	1	TYPE WWWWWWW
Ref Offset 2.36 8/div Ref 20.00 dB	dB						ΔMkr	379.0 μs 7.23 dB
1Δ2								TRIG LVL
X <mark>a</mark> n								
								ا معاد
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lent Spectrum Apalyzer - Swent		NVNT 1		41MHz (rst		
RF 50 Ω	AC IOOO GHz	5		ALIGN			05:28	TYPE WWWWW
ter Freq 2.441000	AC		-DH3 24	ALIGN	One Bu		1	39 PM Oct 22, 202 RACE 1 2 3 4 5 TYPE WWWWW DET P N N N N 1.643 ms
RF 50 Ω ter Freq 2.441000 Ref Offset 2.36	AC AC PN IFG	lO: Fast ↔	-DH3 24 SENSE:INT Trig Delay-{ Trig: Video	ALIGN	One Bu		1	39 PM Oct 22, 202 RACE 1 2 3 4 5 TYPE WWWWW DET P N N N N 1.643 ms
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RF 50 Ω ter Freq 2.441000 Ref Offset 2.36	AC AC DOOD GHZ PN IFG dB Bm 1Δ2	lO: Fast ↔	-DH3 24 SENSE:INT Trig Delay-{ Trig: Video	ALIGN	One Bu		1	39 PM Oct 22, 202 RACE 1 2 3 4 5 TYPE WWWWW DET P N N N N 1.643 ms
Ref Offset 2.36 Ref Offset 2.36 Ref 20.00 dE	AC AC DOOD GHZ PN IFG dB Bm 1Δ2	lO: Fast ↔	-DH3 24 SENSE:INT Trig Delay-{ Trig: Video	ALIGN	One Bu		1	39 PM Oct 22, 202 RACE 1 2 3 4 5 TYPE WWWW DET P N N N N 1.643 ms
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No.: BCTC/RF-EMC-005



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.

Edition: A 5



16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

No.: BCTC/RF-EMC-005

Page 79 of 82

Edition: A 5

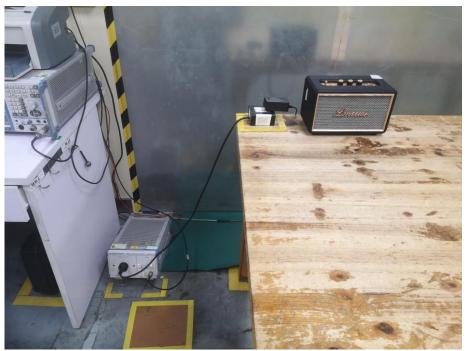
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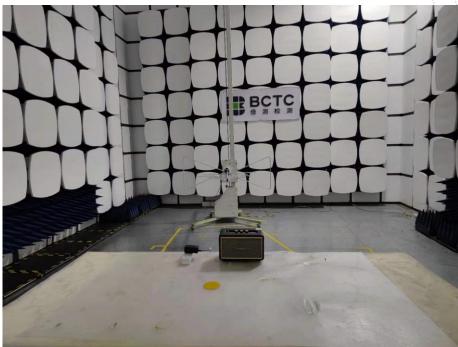


17. EUT Test Setup Photographs

Conducted Measurement Photo



Radiated Measurement Photos



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No.: BCTC/RF-EMC-005

Page 81 of 82

Edition: A.5

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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 test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. 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

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

******** END *******

No.: BCTC/RF-EMC-005