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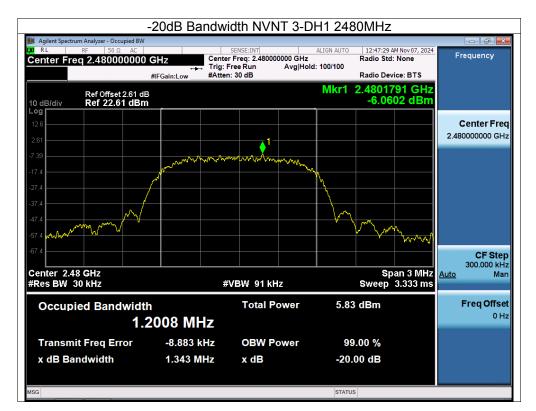












No.: BCTC/RF-EMC-005

Page: 55 of 85



# 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.

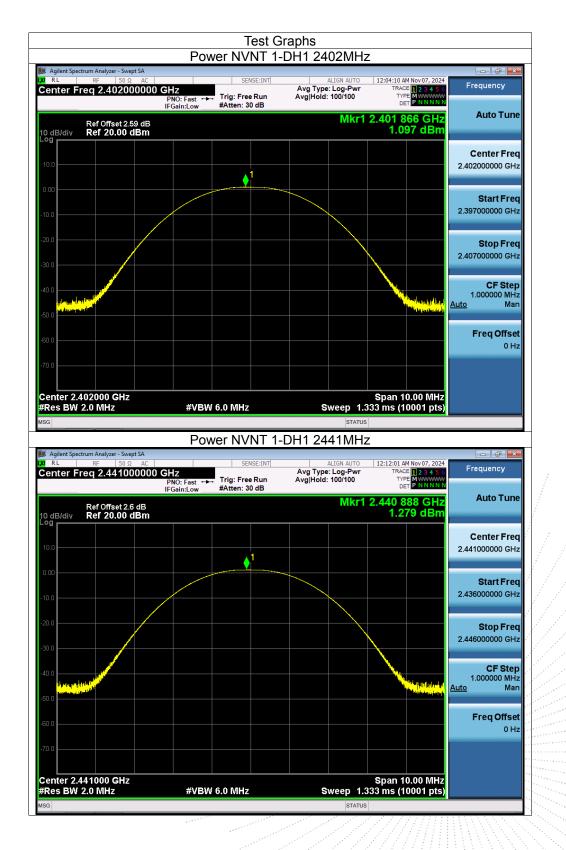
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

# 11.4 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	DC 3.8V

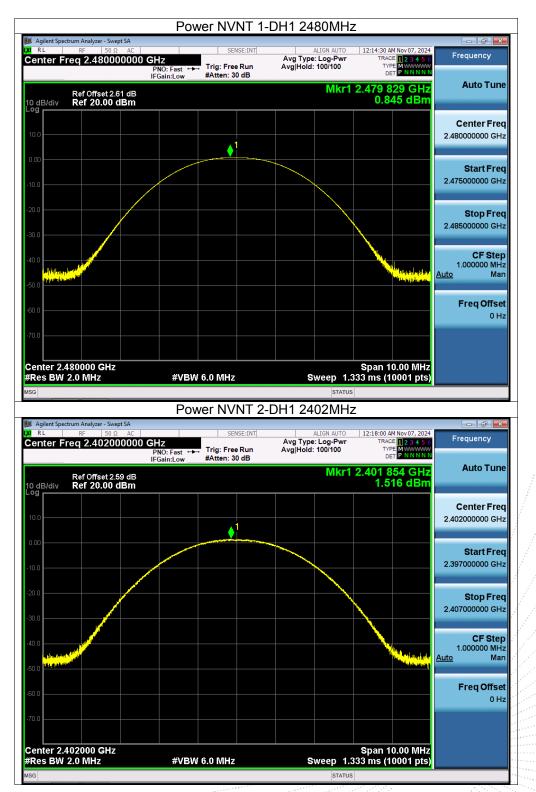
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	1.10	21	Pass
NVNT	1-DH1	2441	1.28	21	Pass
NVNT	1-DH1	2480	0.85	21	Pass
NVNT	2-DH1	2402	1.52	21	Pass
NVNT	2-DH1	2441	1.64	21	Pass
NVNT	2-DH1	2480	1.17	21	Pass
NVNT	3-DH1	2402	1.89	21	Pass
NVNT	3-DH1	2441	2.21	21	Pass
NVNT	3-DH1	2480	1.68	21	Pass



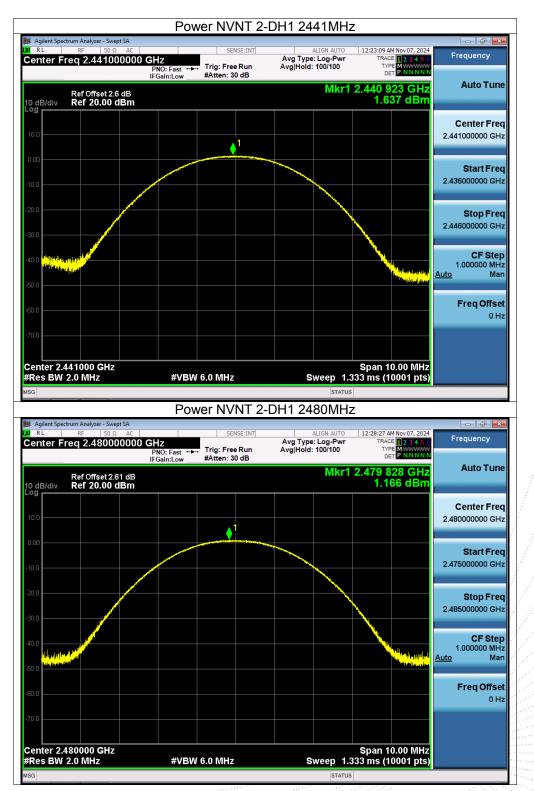












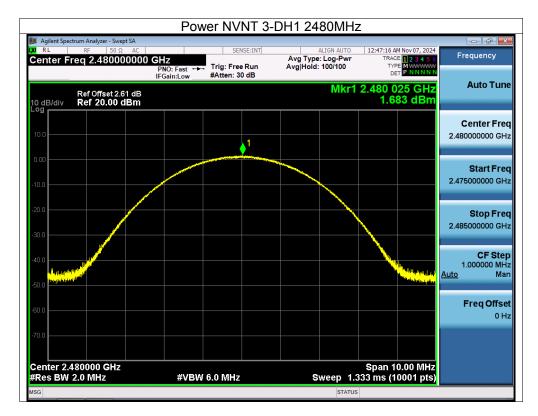
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No. : BCTC/RF-EMC-005

Page: 61 of 85



## 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.

Mode	Test Channel	Separation (MHz)	Limit(MHz)	Result
1-DH1	Low States	1.030	0.673	PASS
1-DH1	Middle	0.990	0.659	PASS
1-DH1	High ••••	0.988	0.658	PASS
2-DH1	Low	0.994	0.890	PASS
2-DH1	Middle	1.010	0.880	PASS
2-DH1	High	1.000	0.888	PASS
3-DH1	Low	0.998	0.906	PASS
3-DH1	Middle	0.998	0.891	PASS
3-DH1	High	0.998	0.895	PASS

#### 12.4 Test Result













		FS NVNT 2-D	DH1 2441MHz		
Agilent Spectrum Analyzer - Swe RL RF 50 G		SENSE:INT	ALIGN AUTO	12:26:44 AM Nov 07, 2024	
Center Freq 2.4415		Trim Free Day	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
Ref Offset 2. I0 dB/div Ref 20.00	6 dB dBm		Mkr1 2	.440 970 GHz -4.984 dBm	Auto Tune
	1		2 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Center Fred 2.441500000 GHz
-20.0					Start Fred 2.440500000 GHz
-50.0					Stop Fred 2.442500000 GHz
Center 2.441500 GHz #Res BW 30 kHz		N 100 kHz	Sweep 2.1	Span 2.000 MHz 33 ms (1001 pts)	<b>CF Step</b> 200.000 kHz <u>Auto</u> Mar
MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 4 5	X 2.440 970 GHz 2.441 980 GHz	Y FU -4.984 dBm -5.301 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset
6 7 8 9 10					
		III	STATUS	*	
	C	ES NVNT 2-F	0H1 2480MHz		
📕 Agilent Spectrum Analyzer - Swe					&
enter Freq 2.4795		Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	12:33:36 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
Ref Offset 2. 0 dB/div Ref 20.00	61 dB		Mkr1 2	.478 972 GHz -5.386 dBm	Auto Tune
-og 10.0 0.00 10.0	1		2		<b>Center Free</b> 2.479500000 GH
20.0					<b>Start Free</b> 2.478500000 GH
50.0 60.0 70.0					<b>Stop Fre</b> 2.480500000 GH
Center 2.479500 GHz #Res BW 30 kHz		N 100 kHz	Sweep 2.1	Span 2.000 MHz 33 ms (1001 pts)	CF Step 200.000 kHz
MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 4 5	× 2.478 972 GHz 2.479 972 GHz	Y FU -5.386 dBm -5.378 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar Freq Offse 0 H:
6 7 8 9 10					
11 <b></b>			STATUS		

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		S NVNT 3-	DH1 2402MHz		
Agilent Spectrum Analyzer - Swe	ept SA	SENSE:INT	ALIGN AUTO	12:41:28 AM Nov 07, 2024	
Center Freq 2.4025		Trim Free Days	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN	Frequency
Ref Offset 2 10 dB/div Ref 20.00	59 dB		Mkr1 2	.401 946 GHz -5.329 dBm	Auto Tune
Log 10.0					Center Fred
0.00	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2.402500000 GHz
-20.0					Start Free 2.401500000 GH:
-40.0					2.401500000 GH.
-60.0 -70.0					<b>Stop Fred</b> 2.403500000 GH:
Center 2.402500 GHz #Res BW 30 kHz		/ 100 kHz	Sweep 2.1	Span 2.000 MHz 33 ms (1001 pts)	CF Step 200.000 kH:
MKR MODE TRC SCL	X		UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
1 N 1 f 2 N 1 f 3 4 5	2.401 946 GHz 2.402 944 GHz	-5.329 dBm -5.329 dBm			Freq Offset 0 Hz
6 7 8 9					
10 11					
				• •	
MSG			STATUS		
	CF	S NVNT 3-	DH1 2441MHz		
Agilent Spectrum Analyzer - Swe RL RF 50 G		SENSE:INT	ALIGN AUTO	12:47:00 AM Nov 07, 2024	
Center Freq 2.4415	00000 GHz PNO: Wide IFGain:Low		Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWW DET P NNNN	Frequency
Ref Offset 2 10 dB/div Ref 20.00	6 dB dBm		Mkr1 2	.440 948 GHz -5.210 dBm	Auto Tune
	1				Center Free 2.441500000 GH
-10.0					
-20.0					Start Free 2.440500000 GH:
-40.0					Stop Free
-70.0					2.442500000 GH:
Center 2.441500 GHz #Res BW 30 kHz		/ 100 kHz		Span 2.000 MHz 33 ms (1001 pts)	CF Step 200.000 kH <u>Auto</u> Mar
MKR MODE TRC SCL	× 2.440 948 GHz	Y F	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f 3 4 5	2.440 948 GHz 2.441 946 GHz	-5.134 dBm		E	<b>Freq Offse</b> 0 H:
6 7 8 9					
10 11 •		m			
ISG			STATUS		



	(	CFS NVNT	3-DH1	2480MHz			
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.47950000	0 GHz PNO: Wide	SENSE:	Avg un Avg	ALIGN AUTO Type: Log-Pwr Hold:>100/100	12:53:53 AM No TRACE TYPE	2 3 4 5 6	Frequency
Ref Offset 2.61 dE 10 dB/div Ref 20.00 dBm	IFGain:Low		B	Mkr1	2.478 946 -5.545		Auto Tune
10.0 0.00	I		~~~~~	2 		~~~~	Center Free 2.479500000 GH
-20.0							Start Fre 2.478500000 GH
-50.0							<b>Stop Fre</b> 2.480500000 GH
Center 2.479500 GHz #Res BW 30 kHz	#V	BW 100 kHz		Sweep 2	Span 2.00 1.133 ms (100	1 pts)	CF Ste 200.000 kH Juto Ma
	478 946 GHz 479 944 GHz	Y -5.545 dBm -5.578 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VA		Freq Offse
6 7 8 9 10							
11		m		STATU	s	•	



Page: 67 of 85



## 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.

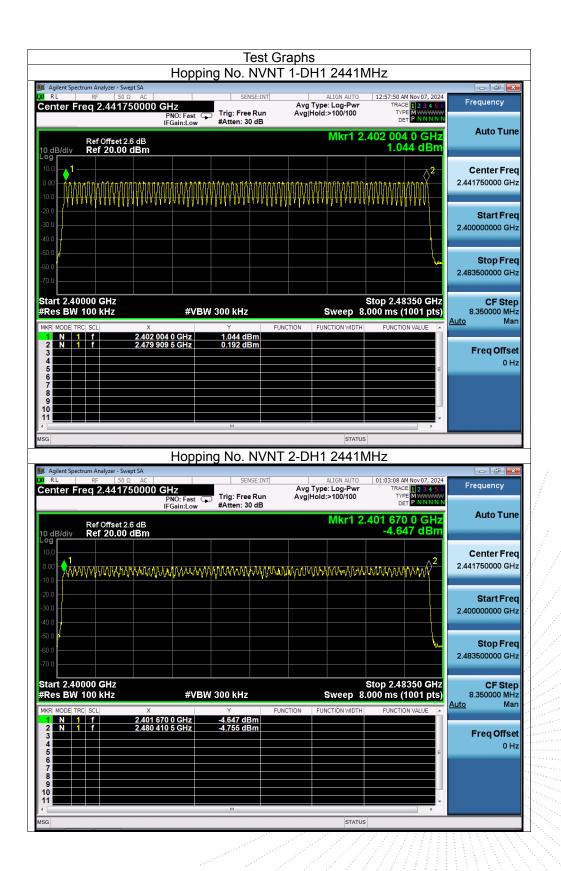
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

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







	Hopping No.	NVNT 3-DH1	1 2441MF	Ηz	
Agilent Spectrum Analyzer - Swept SA       RL     RF     50 Ω     AC       Center Freq 2.4417500000	GHz PNO: Fast Trig: Free	e Run Avg Hold	ALIGN AUTO e: Log-Pwr i:>100/100	01:08:13 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWWW	Frequency
Ref Offset 2.6 dB	IFGain:Low #Atten: 3	0 dB	Mkr1 2.40	01 837 0 GHz -0.032 dBm	Auto Tune
10.0 0.00 -10.0 -10.0	ANYWAMAAAAAAAAAAA	WUUWUWUWU	unaraaa	annativativativativativativativativativativ	Center Freq 2.441750000 GHz
-20.0					<b>Start Fred</b> 2.400000000 GH:
-50.0 <mark>/</mark> -60.0 -70.0				\ 	<b>Stop Free</b> 2.483500000 GH
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz			op 2.48350 GHz 0 ms (1001 pts)	CF Step 8.350000 MH Auto Mai
	337 0 GHz -0.032 dl 494 0 GHz -6.742 dl	Bm	NCTION WIDTH	FUNCTION VALUE	Freq Offse
6 7 8 9 10					
<pre>// //////////////////////////////////</pre>	m		STATUS	Þ	



No. : BCTC/RF-EMC-005

Page: 70 of 85



# 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).

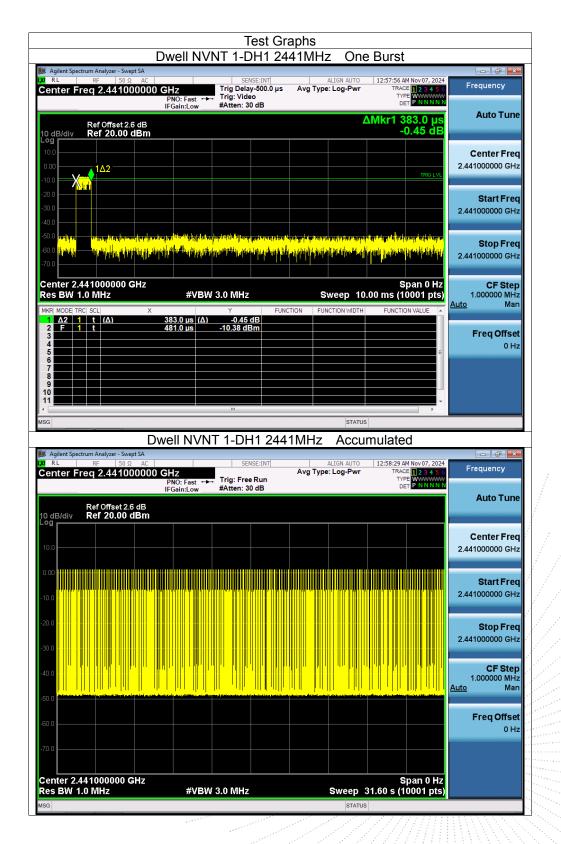
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.383	120.645	315	31600	400	Pass
1-DH3	2441	1.639	249.128	152	31600	400	Pass
1-DH5	2441	2.887	288.7	100	31600	400	Pass
2-DH1	2441	0.392	124.656	318	31600	400	Pass
2-DH3	2441	1.643	277.667	169	31600	400	Pass
2-DH5	2441	2.891	300.664	104	31600	400	Pass
3-DH1	2441	0.391	123.556	316	31600	400	Pass
3-DH3	2441	1.643	244.807	149	31600	400	Pass
3-DH5	2441	2.894	324.128	112	31600	400	Pass

#### 14.4 Test Result

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

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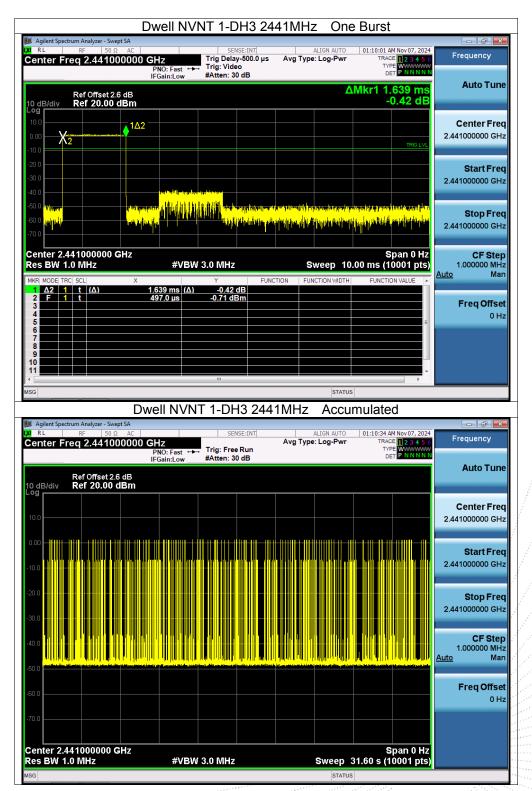




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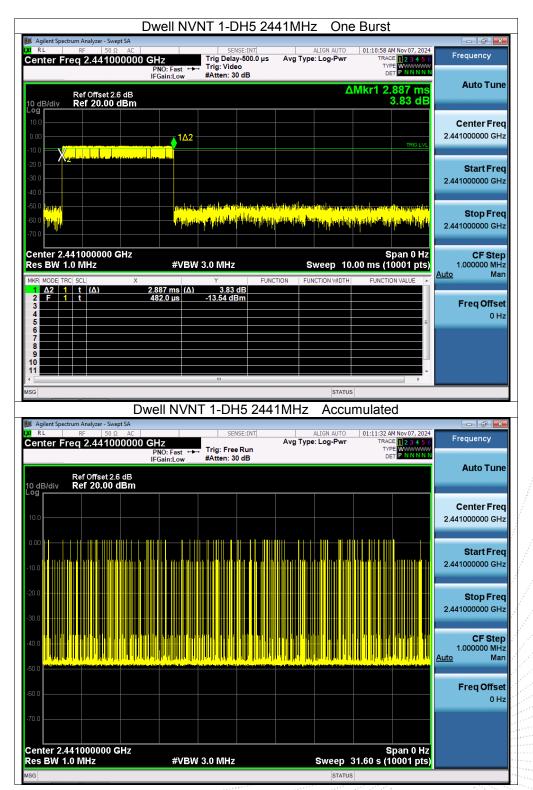
No.: BCTC/RF-EMC-005





No.: BCTC/RF-EMC-005



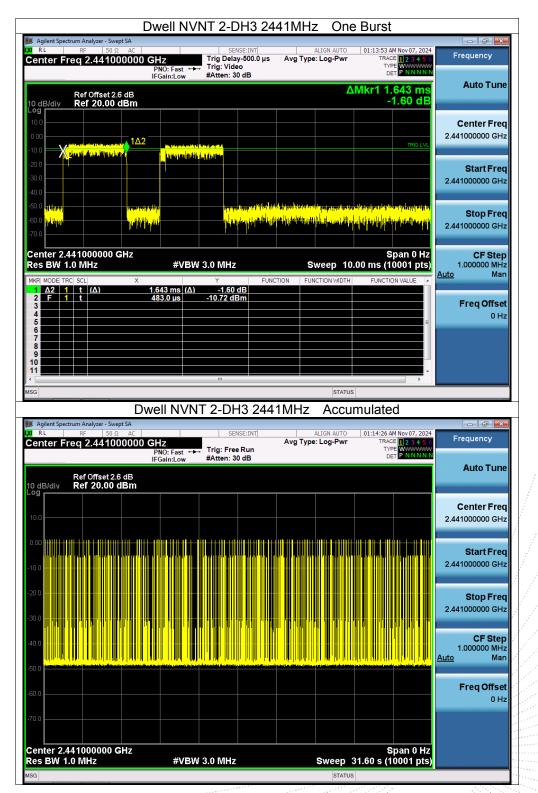




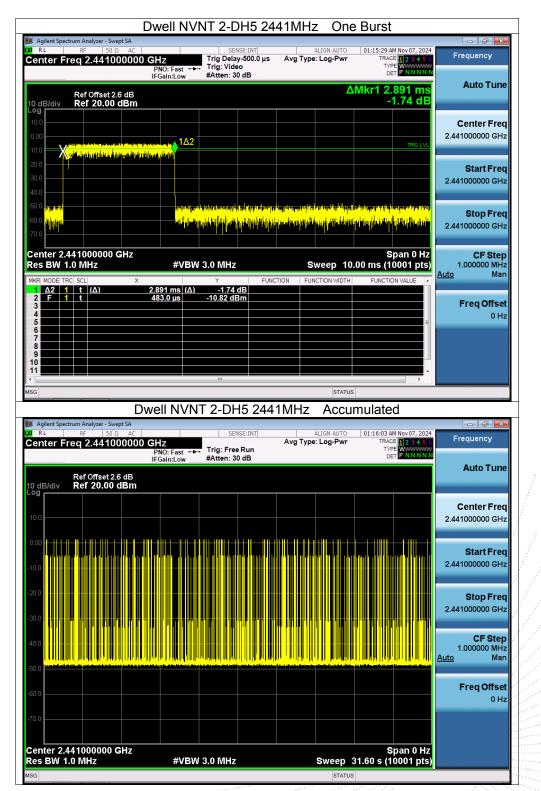
	vell NVNT 2-DH1	2441MHz One	e Burst	
	NO: Fast 🛶 Trig: Video	ALIGN AUTO µs Avg Type: Log-Pwr	01:03:14 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	Frequency
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm	Gain:Low #Atten: 30 dB		ΔMkr1 392.0 μs -2.05 dB	Auto Tune
10.0				Center Freq 2.441000000 GHz
-10.0 <b>1∆2</b> -20.0			TRIG LVL	Start Freq
-30.0 -40.0 -50.0 the to part that a matching and the	u <mark>e d'e j - de a j fruggy (georg) s d' maj al loce d'un la page</mark>	ti har antarkanti <sup>b</sup> ilin na sista da		2.441000000 GHz
-60.0	an a	in the second	The state of the s	<b>Stop Freq</b> 2.441000000 GHz
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	-	Span 0 Hz .00 ms (10001 pts)	<b>CF Step</b> 1.000000 MHz <u>Auto</u> Man
	92.0 μs (Δ) -2.05 dB 82.0 μs -12.21 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset
5     5       6     6       7     6       8     6			E	0 Hz
9 10 11 •				
MSG				
🔰 Agilent Spectrum Analyzer - Swept SA	ell NVNT 2-DH1 2		mulated	
	SENSE:INT PNO: Fast ↔ → → Gain:Low #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	01:03:47 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
			DET P NNNN	
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm Log			DET	Auto Tune
10 dB/div Ref 20.00 dBm				Auto Tune Center Freq 2.441000000 GHz
10 dB/div Ref 20.00 dBm				Center Freq
10 dB/div Ref 20.00 dBm				Center Freq 2.44100000 GHz Start Freq 2.441000000 GHz
10 dB/div Ref 20.00 dBm				Center Freq 2.44100000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz
10 dB/div Ref 20.00 dBm				Center Freq 2.44100000 GHz Start Freq 2.441000000 GHz Stop Freq
10 dB/div Ref 20.00 dBm				Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz
10.0 dB/div Ref 20.00 dBm 10.0 100 100 100 100 100 100 100 100 100				Center Freq       2.441000000 GHz       Start Freq       2.441000000 GHz       Stop Freq       2.441000000 GHz       CF Step       1.000000 MHz       Auto       Freq Offset











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	Dwell NVNT 3-D	H1 2441MHz O	ne Burst	
📜 Agilent Spectrum Analyzer - Swept S 📜 R L 🛛 RF 50 Ω	AC SENS	SE:INT ALIGN AU		Frequency
Center Freq 2.441000	DOO GHZ PNO: Fast ↔→→ IFGain:Low Trig Delay Trig: Video #Atten: 30	, , , , , , , , , , , , , , , , , , ,	Wr TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N	
Ref Offset 2.6 d 10 dB/div Ref 20.00 dB	В		ΔMkr1 391.0 μs -1.79 dB	Auto Tune
10.0 10.0				Center Freq
0.00				2.441000000 GHz
-20.0				Start Freq
40.0				2.441000000 GHz
	مار و افراد میردونه ( ) به ( مربق میرد و میرد میرد از مربع اور	a <mark>n master i con , i sorte : a dita de al litan de al dita de a</mark>	e program e de la construction de l	Stop Freq
	<mark>arahoni dhaqayir maraharaharaha</mark> nna	a particular provinsi printeri da a constru	apart find a ben ha har man	2.441000000 GHz
enter 2.441000000 GH	7		Span 0 Hz	CF Step
tes BW 1.0 MHz	#VBW 3.0 MHz	-	10.00 ms (10001 pts)	1.000000 MHz Auto Man
KR     MODE     TRC     SCL       1     Δ2     1     t     (Δ)       2     F     1     t	X Y <u>391.0 μs</u> (Δ) -1.79 d 408.0 μs		DTH FUNCTION VALUE	
2 F 1 t 3 4	498.0 µs 0.17 dB			Freq Offset
5			E	
8 9				
0			-	
G		ST	ATUS	
	Dwell NVNT 3-DH	1 2441MHz Acc	cumulated	
Agilent Spectrum Analyzer - Swept S       R L     RF     50 Ω	AC SENS	SE:INT ALIGN AU	TO 01:08:53 AM Nov 07, 2024	Frequency
enter Freq 2.441000	PNO: Fast +++ Trig: Free IFGain:Low #Atten: 30		WT TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N	
Ref Offset 2.6 d	В			Auto Tune
dB/div Ref 20.00 dB	m			
0.0				Center Fred 2.441000000 GHz
.00	. (8) 1. (8)			
				Start Fred 2.441000000 GHz
D.O				2.441000000 GH
0.0				Stop Fred
0.0				2.441000000 GH:
				CF Step
				1.000000 MHz <u>Auto</u> Mar
				En com
0.0				Freq Offsel 0 Hz
0.0				
enter 2.441000000 GH es BW 1.0 MHz	z #VBW 3.0 MHz	Swee	Span 0 Hz p   31.60 s (10001 pts)	
G			ATUS	

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DW	ell NVNT 3-DH3 2	441MHz One	Burst	
J Agilent Spectrum Analyzer - Swept SA	CENCEJINE	ALIGN AUTO	01:16:37 AM Nov 07, 2024	- ¢ ×
Center Freq 2.441000000 GH	Z D: Fast ↔→→ ain:Low #Atten: 30 dB		TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P NNNN	Frequency
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm Log		۵	Mkr1 1.643 ms 1.70 dB	Auto Tune
				Center Freq 2.441000000 GHz
-10.0 <b>X</b>			TRIG LVL	Start Freg
-30.0				2.441000000 GHz
-60.0 <mark>104110 -60.0 101110 -70.0</mark>	allenge burstil Alleneter for den der bei er het sollen bei den sollten bei den der bei den sollte het sollten bei den sollten bei den sollten bei den sollte	and the second	na filmfreining filmfreini filmfreining filmfrei 19. och sin stragt skyld sin gener i filmfrei	<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)	CF Step 1.000000 MHz
	Y FU I3 ms (Δ) 1.70 dB I.0 μs -13.83 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
3 4 5 6			=	Freq Offset 0 Hz
7 8 9				
	m			
MSG				
		STATUS		
Dwe	II NVNT 3-DH3 244		nulated	
Dwe Magilent Spectrum Analyzer - Swept SA Mag RL RF 50 Ω AC	SENSE:INT	41MHz Accur	01:17:11 AM Nov 07, 2024	E
Dwe ∭ Agilent Spectrum Analyzer - Swept SA ∭ RL RF 50 Ω AC Center Freq 2.441000000 GH PN	SENSE:INT	1MHz Accur		Frequency
Dwe Agilent Spectrum Analyzer - Swept SA Agil RL RF 50 Ω AC Center Freq 2.441000000 GH PN	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	
Ballent Spectrum Analyzer - Swept SA       W RL     RF     50.0. AC       Center Freq 2.441000000 GH     PN       IFG     Ref Offset 2.6 dB       10 dB/div     Ref 20.00 dBm	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency
Dwe Agilent Spectrum Analyzer - Swept SA War RL RF 50 Q AC Center Freq 2.441000000 GH PN IFG 10 dB/div Ref Offset 2.6 dB Log	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq
Dwel ■ Agilent Spectrum Analyzer - Swept SA W RL RF 50 Ω AC Center Freq 2.441000000 GH PN IFG Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10 0 10 0 PN IFG 10 0 PN IFG PN IFG	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency Auto Tune Center Freq 2.441000000 GHz
Dwel ■ Agilent Spectrum Analyzer - Swept SA W RL RF 50 Ω AC Center Freq 2.441000000 GH PN IFG 0 dB/div Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10 0	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq
Dwel	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz
Dwel	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency Auto Tune Center Freq 2.44100000 GHz Start Freq 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz CF Step 1.000000 MHz Auto Man
Dwel	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz
Dwe	Z IO: Fast +++ Trig: Free Run	41MHz Accur	01:17:11 AM Nov 07, 2024 TRACE 1 2 3 4 5 6 TYPE	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man



		'NT 3-DH5 24	44 IMHZ	One Burst		
Agilent Spectrum Analyzer - Swept S RL RF 50 Ω Center Freq 2.441000	AC 0000 GHz PNO: Fast ↔	SENSE:INT Trig Delay-500.0 µs Trig: Video		IYPE	1 2 3 4 5 6 Frequence	
Ref Offset 2.6 c 10 dB/div Ref 20.00 dE	IFGain:Low	#Atten: 30 dB		ΔMkr1 2.8		Tune
10.0 0.00	102_104				Center 2.44100000	
-10.0 X: 1111					Start 2.44100000	
-40.0		kurfti Diserfræmet <mark>het)spistosiste</mark>	1 1.1		n weight	Freq
-60.0		Mangaran Manal Manda	had on ceilith from	rettern en de legen	2.44100000	0 GHz
Center 2.441000000 GH Res BW 1.0 MHz MKR MODE TRC SCL	#VBV			Spa ep 10.00 ms (100 N WIDTH FUNCTION	001 pts) 1.000000 Auto	Step 0 MHz Man
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>2.894 ms (Δ)</u> 350.0 μs	-1.73 dB -12.96 dBm			Freq C	Offset 0 Hz
5 6 7 8 9						
10 11 MSG		m		STATUS		
	Dwell NVN	IT 3-DH5 244	41MHz A	Accumulated		
📜 Agilent Spectrum Analyzer - Swept S μ RL RF 50 Ω					a	P X
Center Freq 2.441000	000 GHz	SENSE:INT	ALIG Avg Type: Lo	IN AUTO 01:18:30 AM N Og-Pwr TRACE	Nov 07, 2024 1 2 3 4 5 6 Frequence	
Ref Offset 2.6 d	DOOD GHZ PNO: Fast IFGain:Low	T		og-Pwr TRACE	lov 07, 2024	сy
Center Freq 2.441000	DOOD GHZ PNO: Fast IFGain:Low	, Trig: Free Run		og-Pwr TRACE	Iov 07, 2024 2 2 3 4 5 0 P NNNN N Auto Center	Tune Freq
Ref Offset 2.6 d	DOOD GHZ PNO: Fast IFGain:Low	, Trig: Free Run		og-Pwr TRACE	Iov 07, 2024 1 2 3 4 5 6 P NNNNN P NNNNN Auto	Tune Freq 0 GHz
Ref Offset 2.6 d Ref 20.00 dE	DOOD GHZ PNO: Fast IFGain:Low	, Trig: Free Run		og-Pwr TRACE	Iov 07, 2024 2 3 4 5 0 P NNNNN Auto Center 2.44100000	Tune Freq 0 GHz :Freq
10 dB/div     Ref Offset 2.6 d       10 dB/div     Ref 20.00 dE       10 dB/div     0.00 dE	DOOD GHZ PNO: Fast IFGain:Low	, Trig: Free Run		og-Pwr TRACE	Image: 2 - 4 - 5 - 6     Frequence       P NNNNN     Auto       Center     2.44100000       Start     2.44100000	• Freq 0 GHz 0 GHz 0 GHz
Ref Offset 2.6 d 10 dB/div Ref 20.00 dB 10 0 10 0	DOOD GHZ PNO: Fast IFGain:Low	, Trig: Free Run		og-Pwr TRACE	Image: Second state	Freq GHz Freq GHz Freq GHz GHz Step
Ref Offset 2.6 d 10 dB/div Ref 20.00 dE 10 0 10 0	DOOD GHZ PNO: Fast IFGain:Low	, Trig: Free Run		og-Pwr TRACE	Image: Second start     Start       Start     2.44100000	Freq 0 GHz Freq 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz Man
Ref Offset 2.6 d Ref 20.00 dE 10 dB/div 10 0 -0.000 -0.00 -0.00 -0.00 -0	DOOD GHZ PNO: Fast IFGain:Low	, Trig: Free Run		og-Pwr TRACE	Image: source of the	Freq 0 GHz Freq 0 GHz 0 GHz 0 GHz 0 GHz Man
Ref Offset 2.6 d       10 gB/div     Ref 20.00 dE       10 0	DOUD GHZ PNO: Fast → IFGain:Low IB IG IG IG IG IG IG IG IG IG IG	, Trig: Free Run	Avg Type: Lo	bg-Pwr TRACE TYPE DET	an 0 Hz	Freq 0 GHz Freq 0 GHz 0 GHz 0 GHz 0 GHz Man



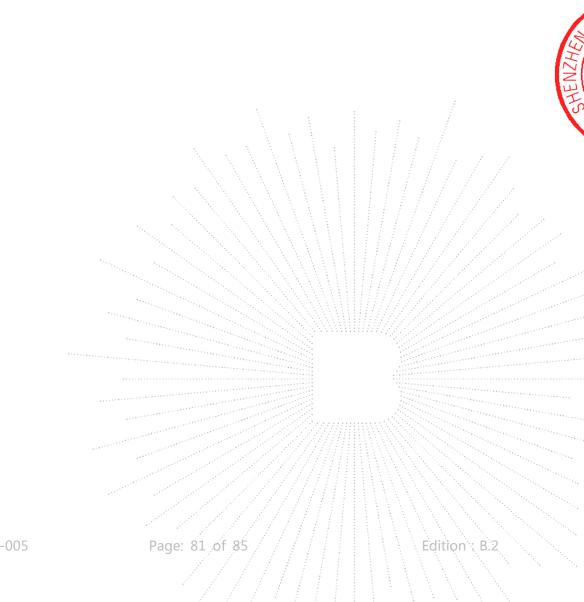
# 15. Antenna Requirement

### 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.



No.: BCTC/RF-EMC-005



# 16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

No.: BCTC/RF-EMC-005

Page: 82 of 85

Edition : B.2

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API



# 17. EUT Test Setup Photographs

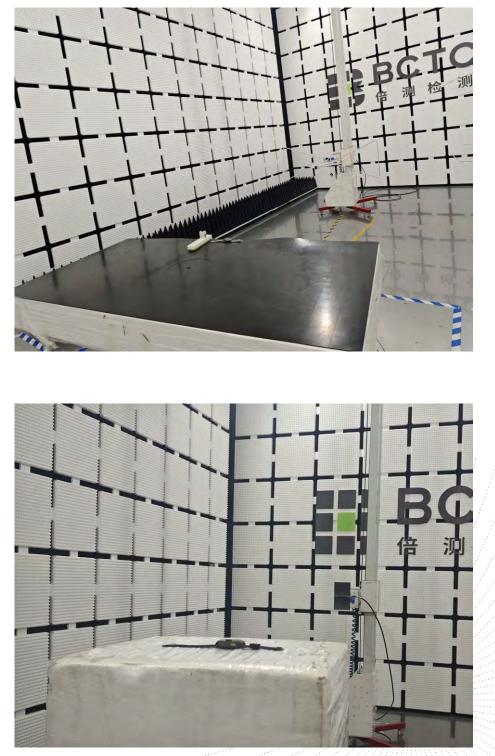
Conducted emissions



Port S



#### **Radiated Measurement Photos**







# 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 \*\*\*\*\*

No. : BCTC/RF-EMC-005

Page: 85 of 85