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Appendix A for SHCR2112000997AT

Power level setting using in test:

Channel	Zigbee			
	Ant 1			
11	120			
18	120			
26	120			

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1							
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC	
iviode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)	
		2405	1.086	14.223	7.64	11.17	1.89	
Zigbee	SISO	2440	1.086	15.153	7.17	11.45	2.60	
		2480	1.083	14.540	7.45	11.28	2.95	



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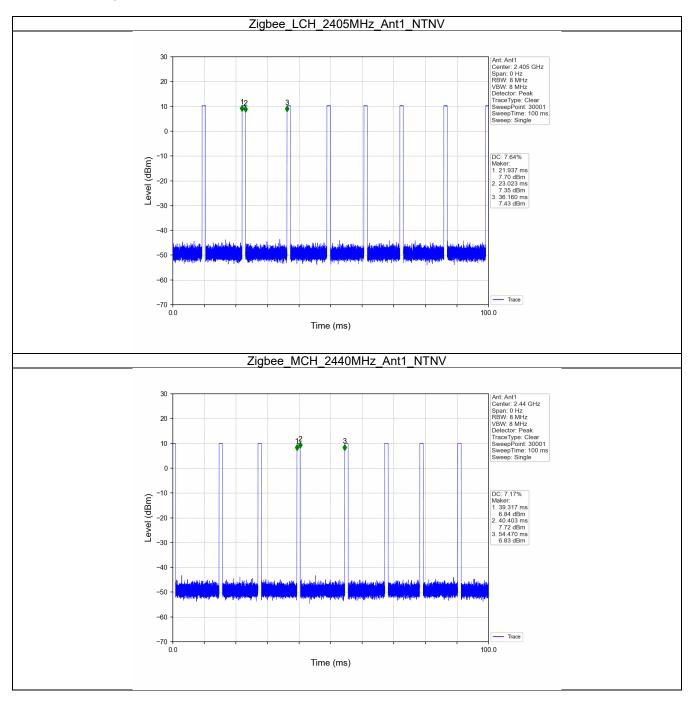
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1.1.2 Test Graph





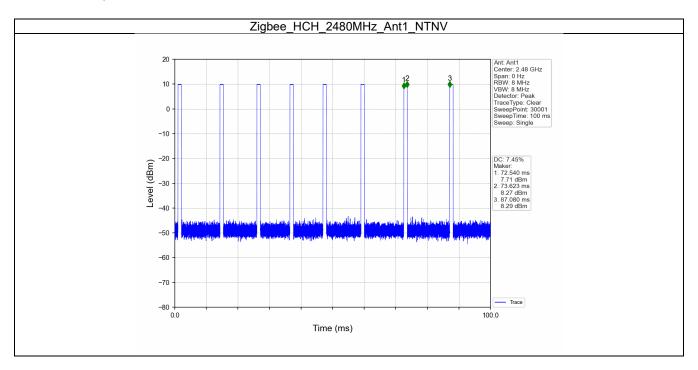
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mada	TX	Frequency	Ant	99% Occupied Bandwidth (MHz)	Verdict	
Mode Ty	Туре	(MHz)	Hz) Ant	Result	verdict	
		2405	1	2.217	Pass	
Zigbee	SISO	2440	1	2.213	Pass	
		2480	1	2.223	Pass	



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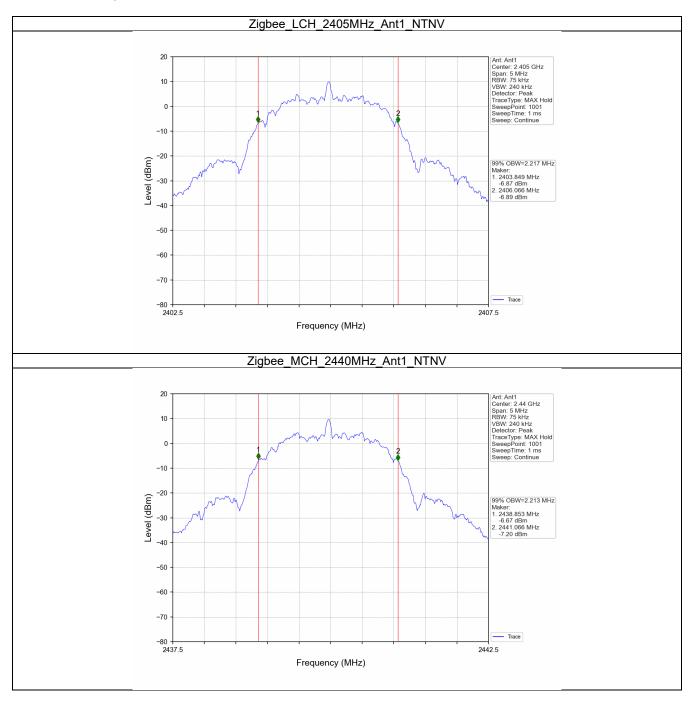
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2.1.2 Test Graph





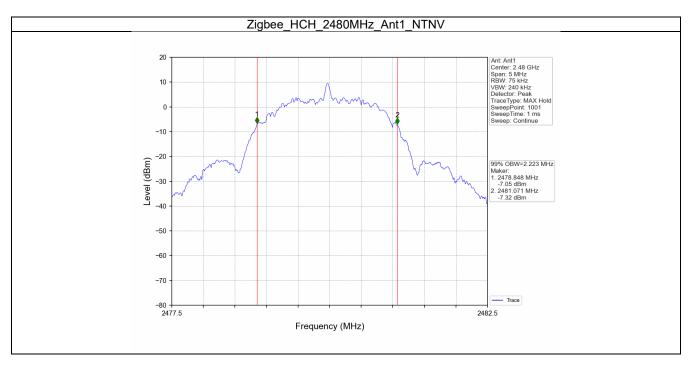
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	Ant	6dB Bandv	Verdict	
Mode	Type	(MHz)		Result	Limit	verdict
Zigbee		2405	1	1.111	>=0.5	Pass
	SISO	2440	1	1.103	>=0.5	Pass
		2480	1	1.142	>=0.5	Pass



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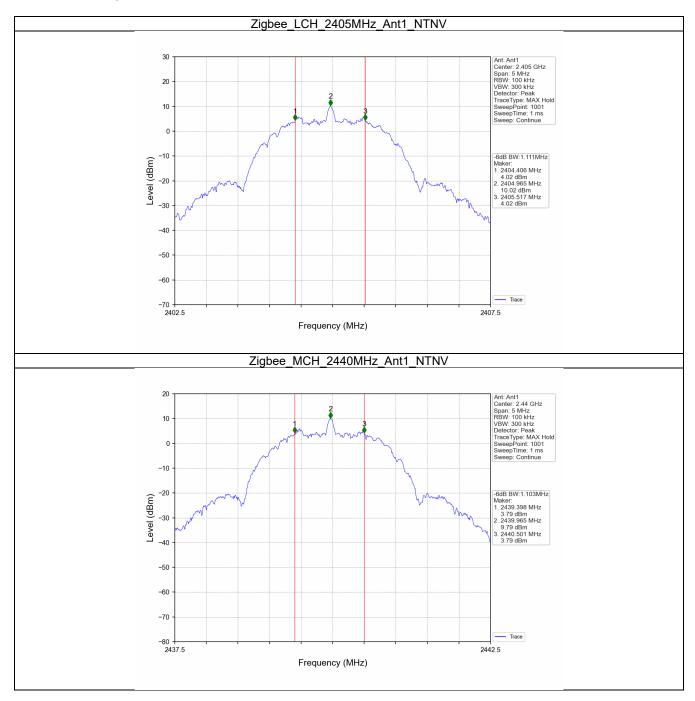
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2.2.2 Test Graph



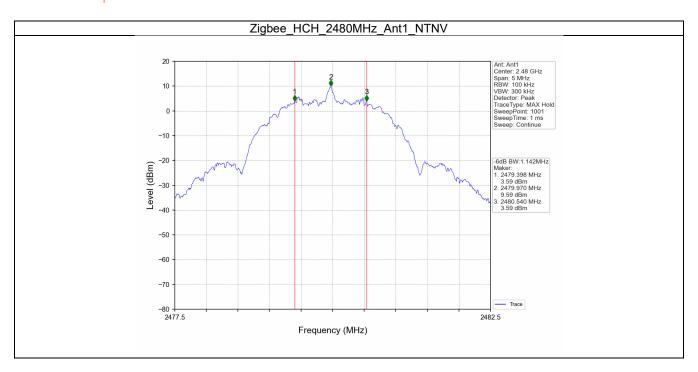


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode TX Type		Frequency	Maximum Peak Conduc	Verdict	
		(MHz)	Ant1	Limit	verdict
	2405	10.14	<=30	Pass	
Zigbee	SISO	2440	9.92	<=30	Pass
		2480	9.66	<=30	Pass
Note1: Anteni	na Gain: Ant1	: 2.1dBi;			



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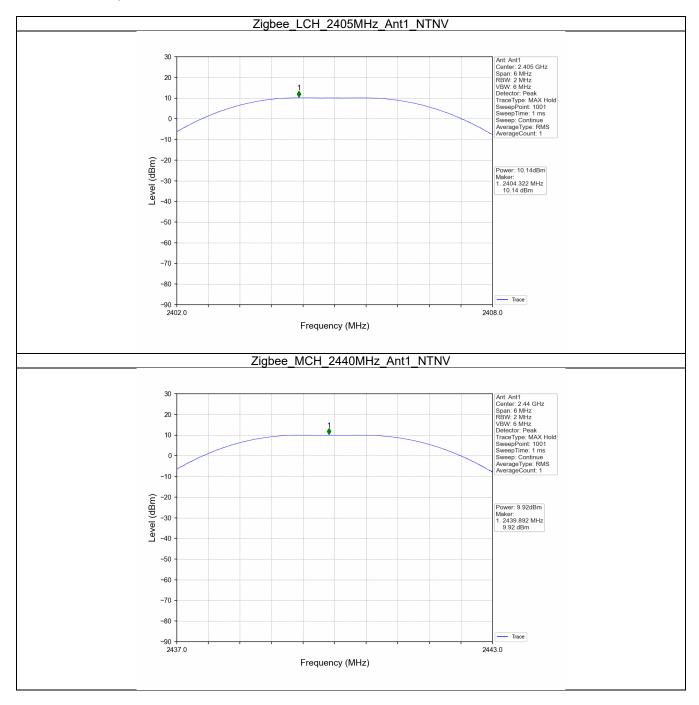
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3.1.2 Test Graph



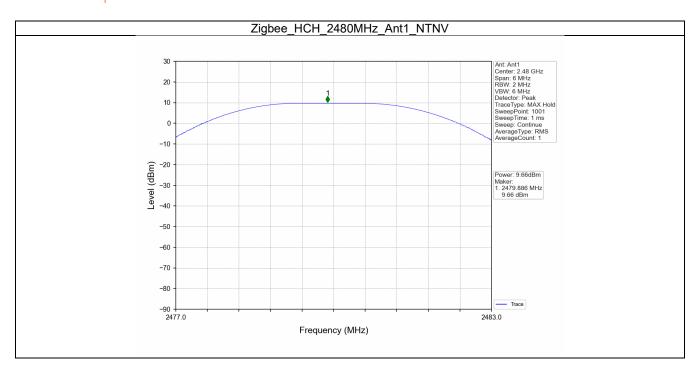


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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	Verdict				
	Type	(MHz)	Ant1	Limit	verdict			
Zigbee		2405	-3.64	<=8	Pass			
	SISO	2440	-3.90	<=8	Pass			
		2480	-4.58	<=8	Pass			
Note1: Antenna	Note1: Antenna Gain: Ant1: 2.1dBi;							



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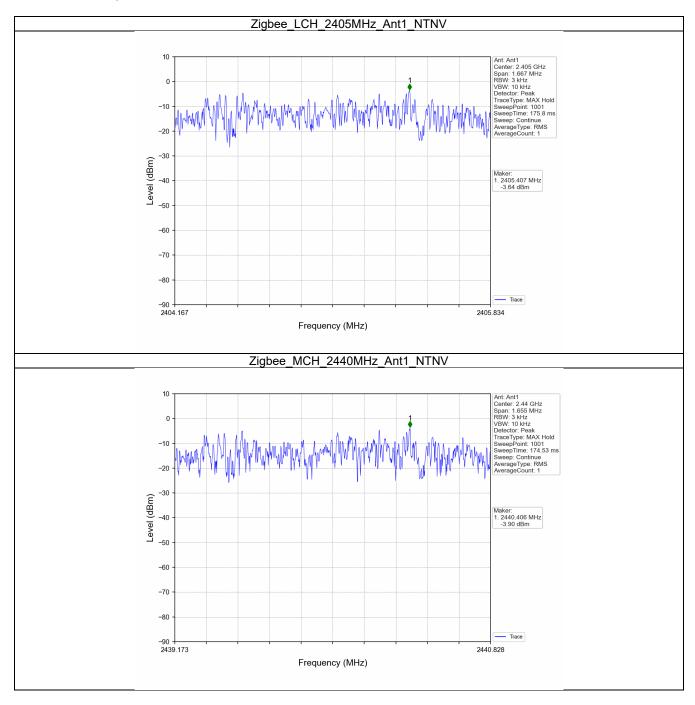
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4.1.2 Test Graph

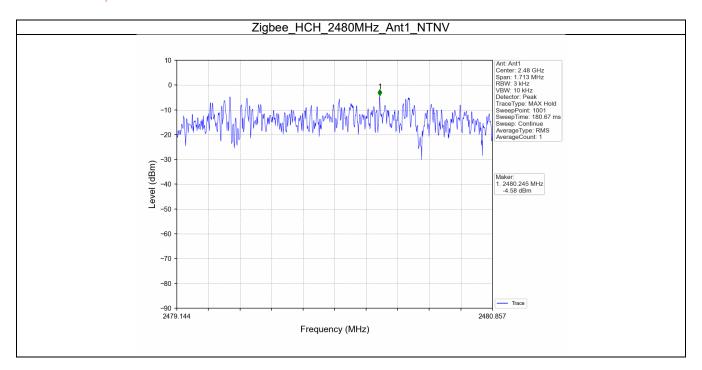




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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
Zigbee	SISO	2405	1	10.02
		2440	1	9.80
		2480	1	9.51

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



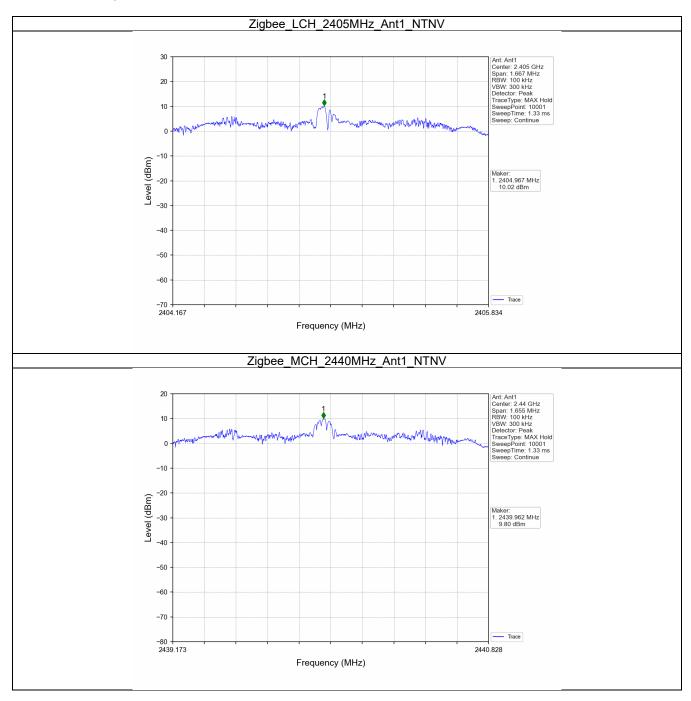
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5.1.2 Test Graph





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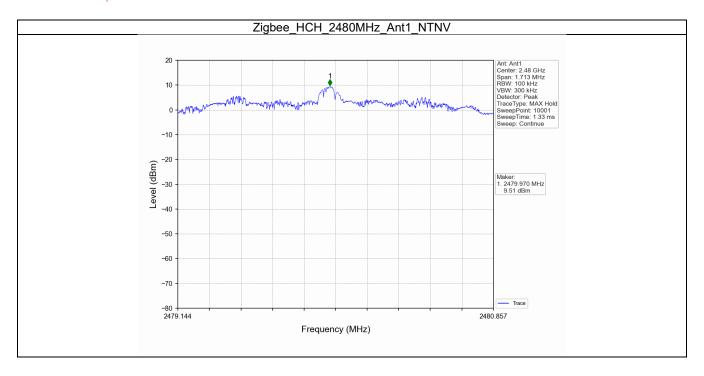
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
Zigbee	SISO	2405	1	10.02	-9.98	Pass
		2440	1	10.02	-9.98	Pass
		2480	1	10.02	-9.98	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



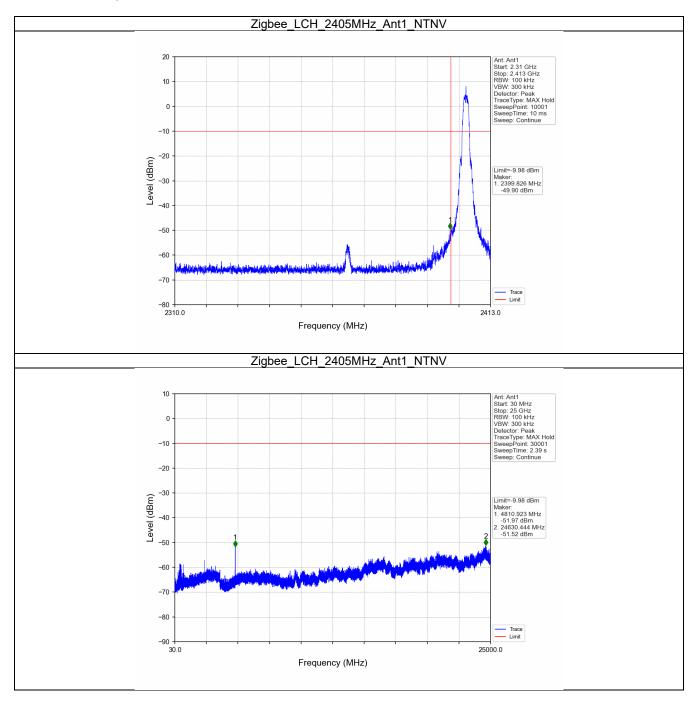
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5.2.2 Test Graph





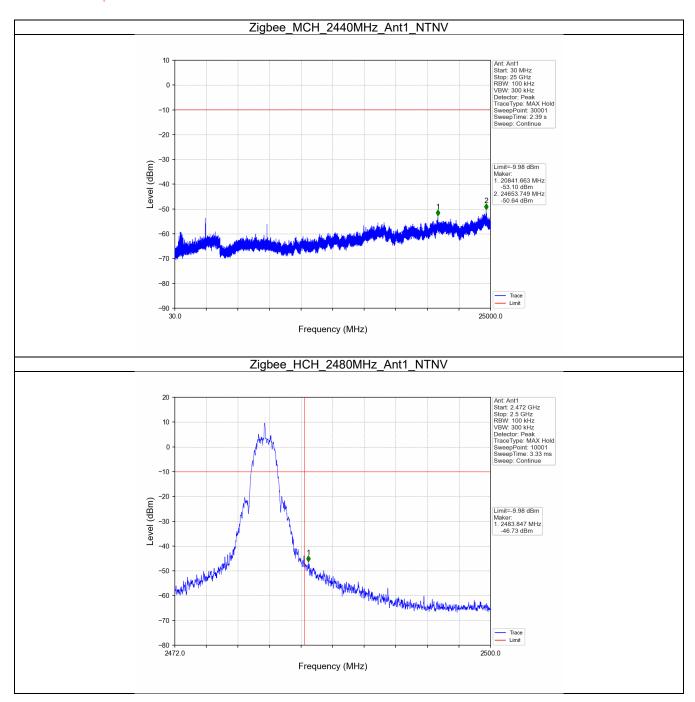
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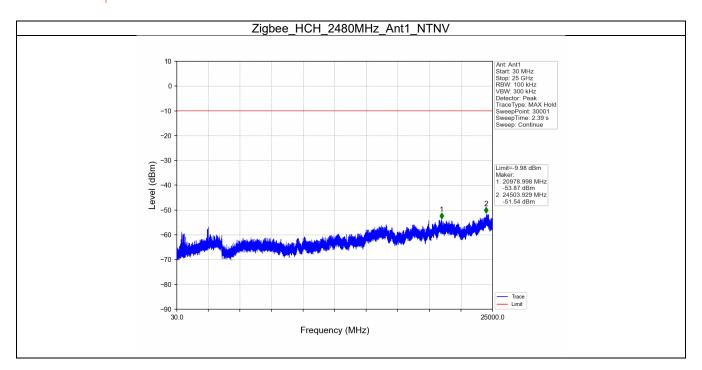
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