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# 10 Appendix

For BLE

- 1. Duty Cycle
- 1.1 Test Result

#### 1.1.1 Ant1

				P	Ant1		
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2402	2.139	2.500	85.56	0.68	0.03
1M	SISO	2440	2.139	2.499	85.59	0.68	0.03
		2480	2.138	2.499	85.55	0.68	0.03
		2402	0.064	0.625	10.24	9.90	0.03
2M	SISO	2440	0.064	0.625	10.24	9.90	0.03
		2480	0.064	0.625	10.24	9.90	0.03



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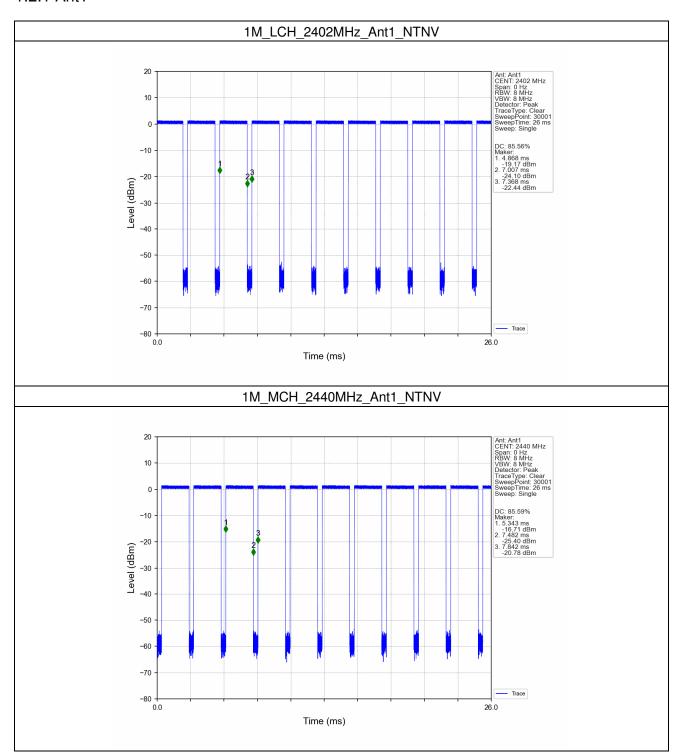


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#### 1.2 Test Graph

#### 1.2.1 Ant1





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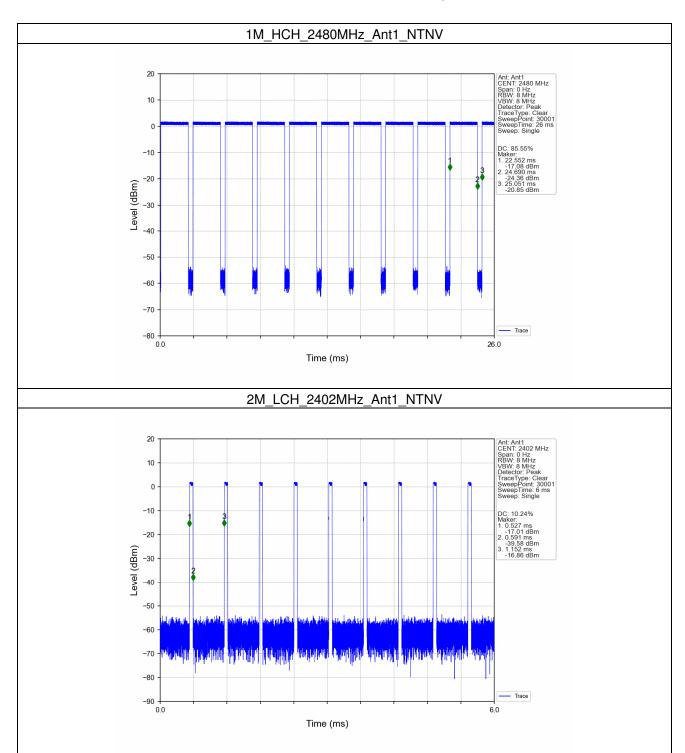
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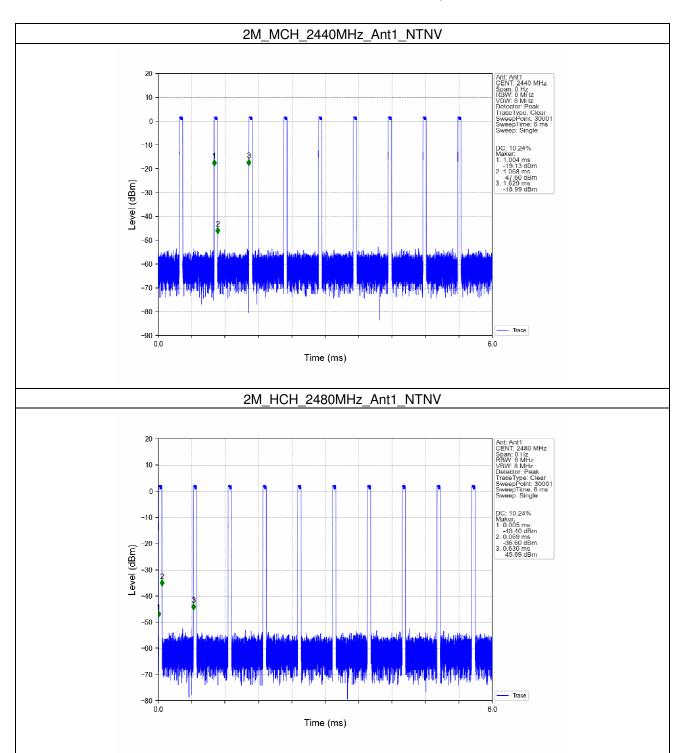
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#### 2. Bandwidth

#### 2.1 Test Result

#### 2.1.2 6dB BW

Mode	TX	Frequency	ANIT	6dB Bandv	Manaliat	
	Type	(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.642	>=0.5	Pass
1M	SISO	2440	1	0.641	>=0.5	Pass
		2480	1	0.642	>=0.5	Pass
		2402	1	0.673	>=0.5	Pass
2M	SISO	2440	1	0.674	>=0.5	Pass
		2480	1	0.673	>=0.5	Pass



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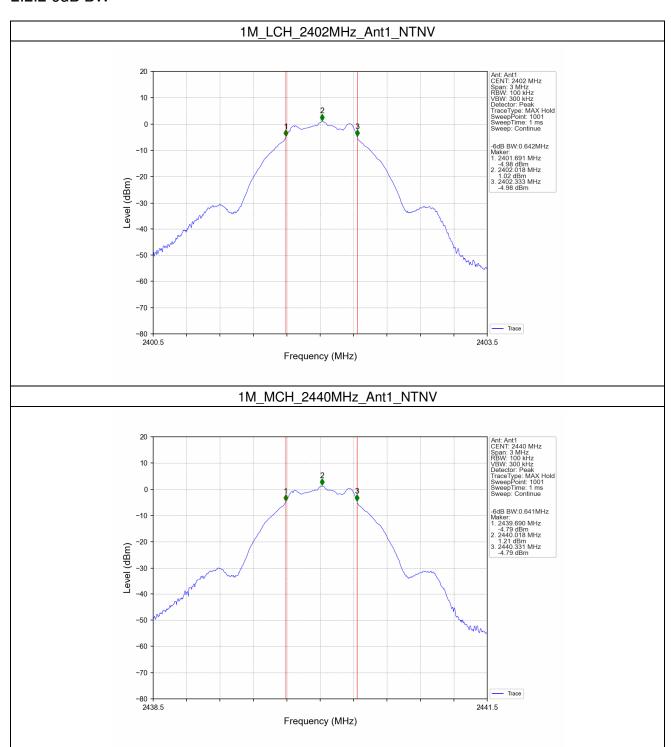


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#### 2.2 Test Graph

#### 2.2.2 6dB BW





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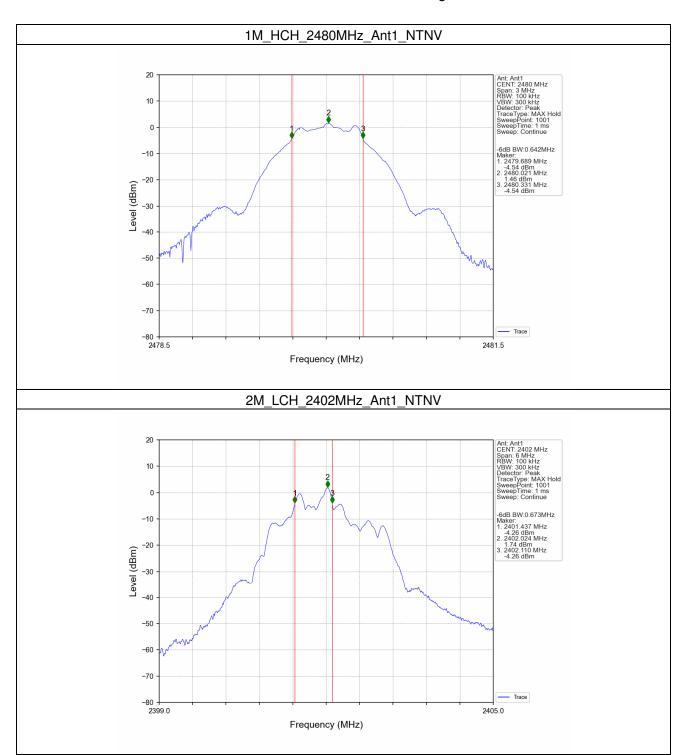
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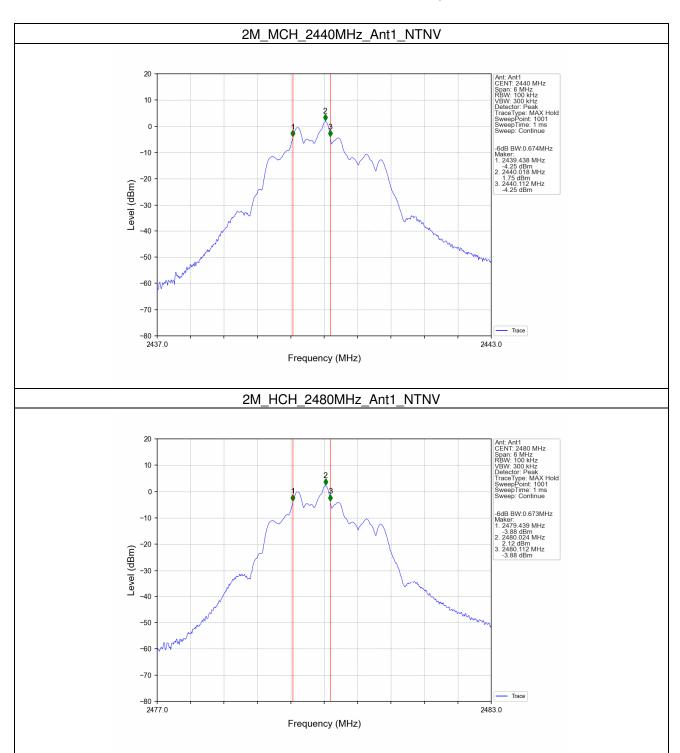
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#### 3. Maximum Conducted Output Power

#### 3.1 Test Result

#### 3.1.1 Power

Mode	TX	Frequency	Maximum Peak Conduc	Voudiat	
	Type	(MHz)	ANT1	Limit	Verdict
		2402	1.01	<=30	Pass
1M	SISO	2440	1.32	<=30	Pass
		2480	1.67	<=30	Pass
		2402	1.63	<=30	Pass
2M	SISO	2440	1.84	<=30	Pass
		2480	2.20	<=30	Pass
Note1: Anter	nna Gain: Ant	1: 4.40dBi;		<u>.</u>	



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### 4. Maximum Power Spectral Density

#### 4.1 Test Result

#### 4.1.1 PSD

Mode	TX	Frequency	Maximum PS	Vaudiat	
	Type	(MHz)	ANT1	Limit	Verdict
		2402	-15.04	<=8	Pass
1M	SISO	2440	-14.72	<=8	Pass
		2480	-14.47	<=8	Pass
2M		2402	-16.76	<=8	Pass
	SISO	2440	-16.70	<=8	Pass
		2480	-16.24	<=8	Pass
Note1: Anten	nna Gain: Ant1: 4.	1	-16.24	<=	<u>-8</u>



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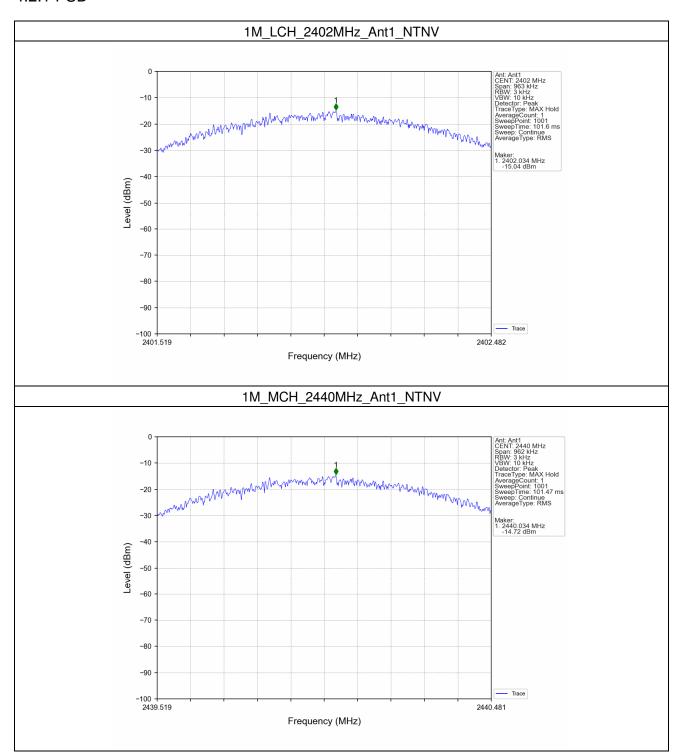
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#### 4.2 Test Graph

#### 4.2.1 PSD





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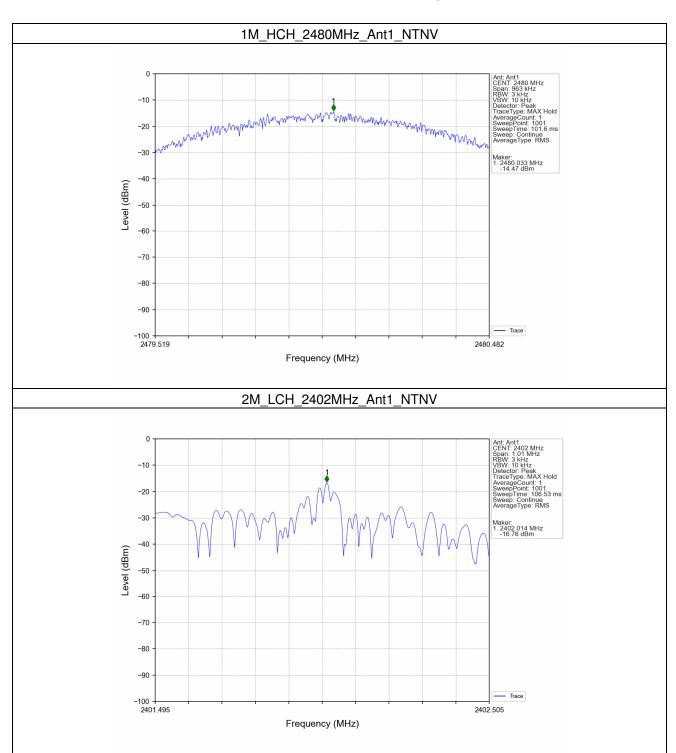
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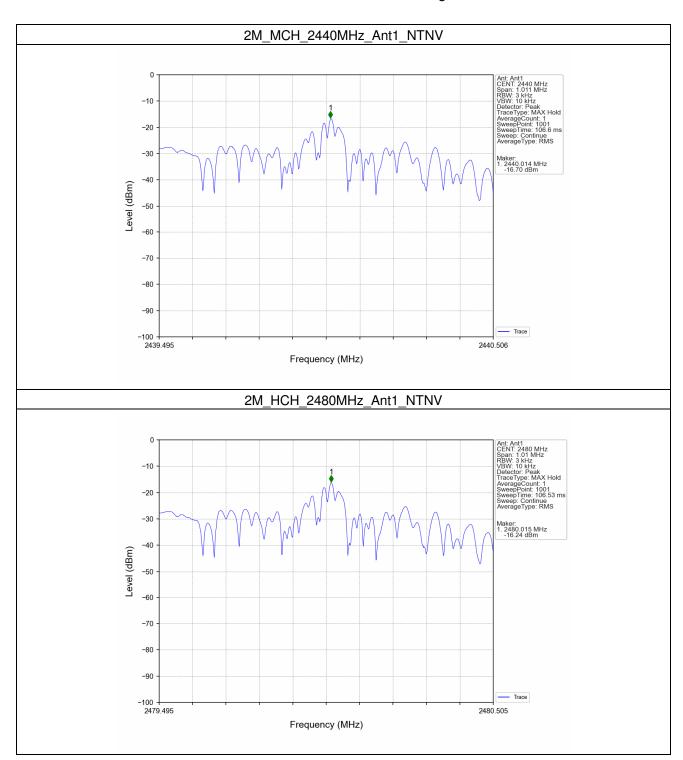
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#### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	0.92
1M	SISO	2440	1	1.19
		2480	1	1.52
		2402	1	1.54
2M	SISO	2440	1	1.65
		2480	1	2.07

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.

#### 5.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	1.52	-18.48	Pass
1M	SISO	2440	1	1.52	-18.48	Pass
		2480	1	1.52	-18.48	Pass
		2402	1	2.07	-17.93	Pass
2M	SISO	2440	1	2.07	-17.93	Pass
		2480	1	2.07	-17.93	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.



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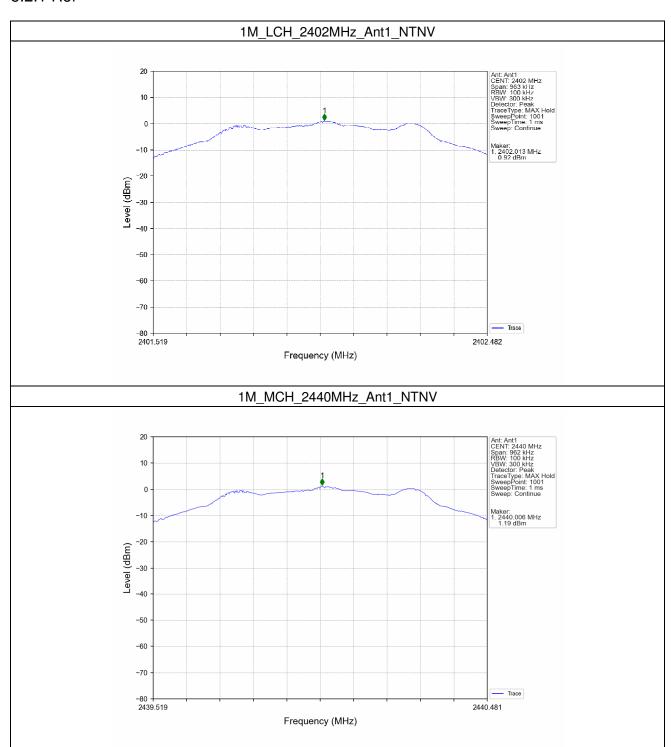


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#### 5.2 Test Graph

#### 5.2.1 Ref





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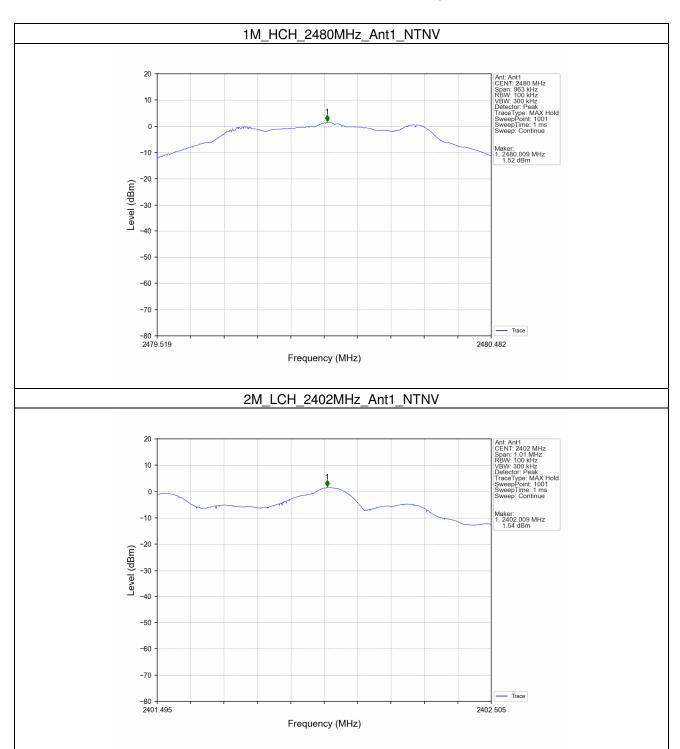
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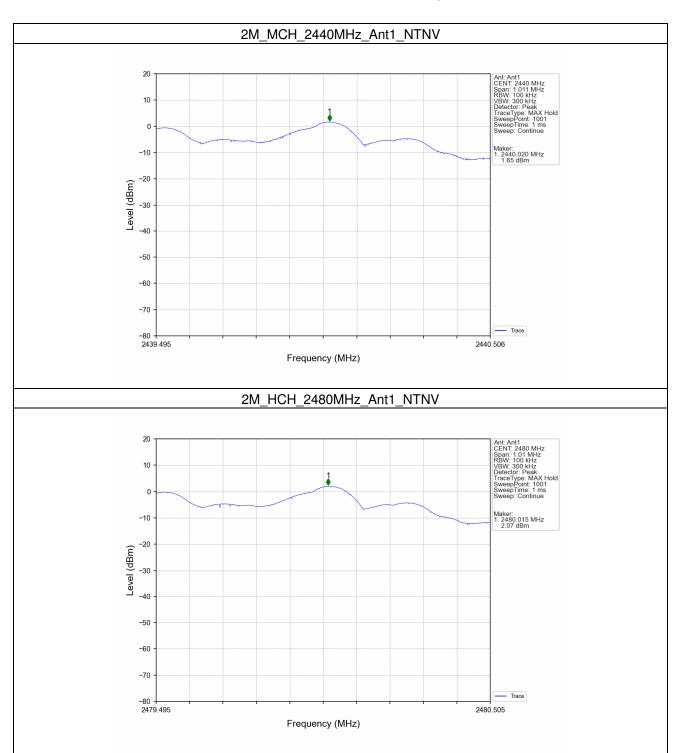
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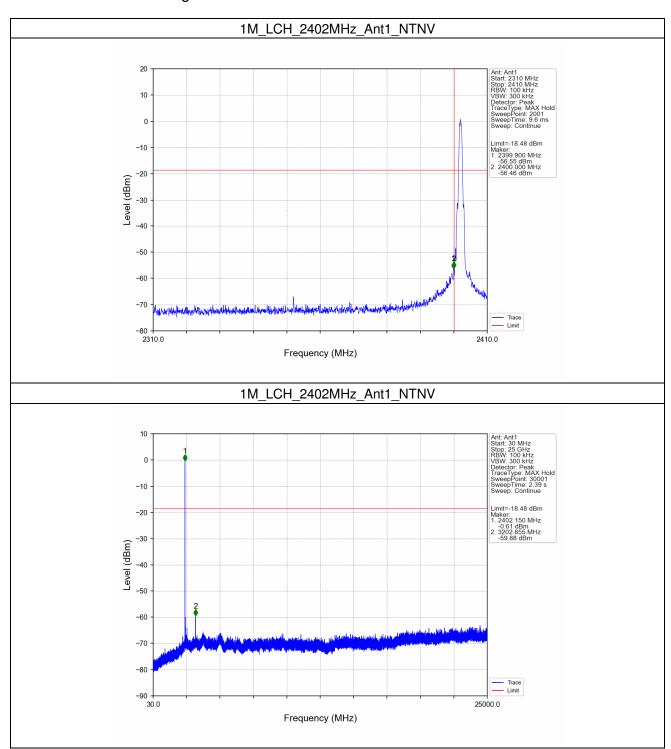
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#### 5.2.2 CSE and Band Edges





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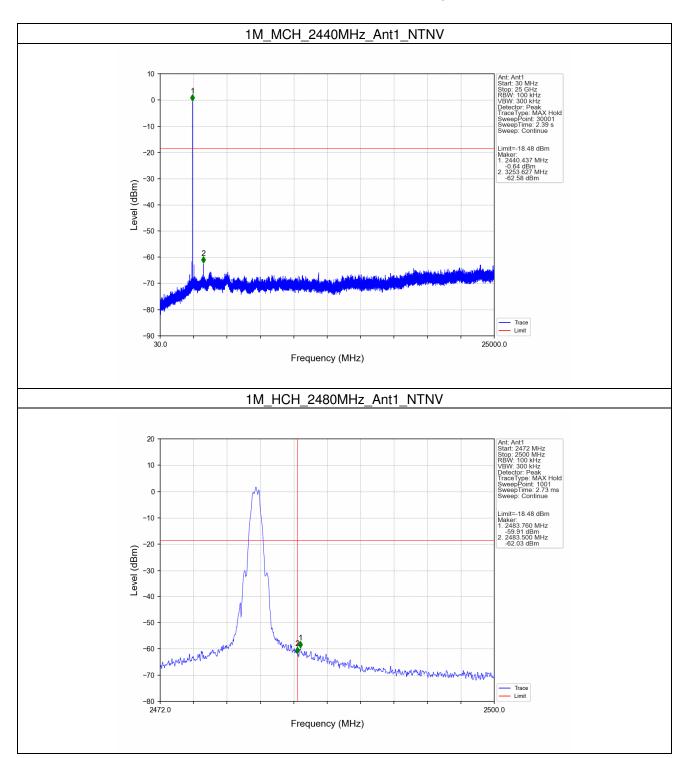
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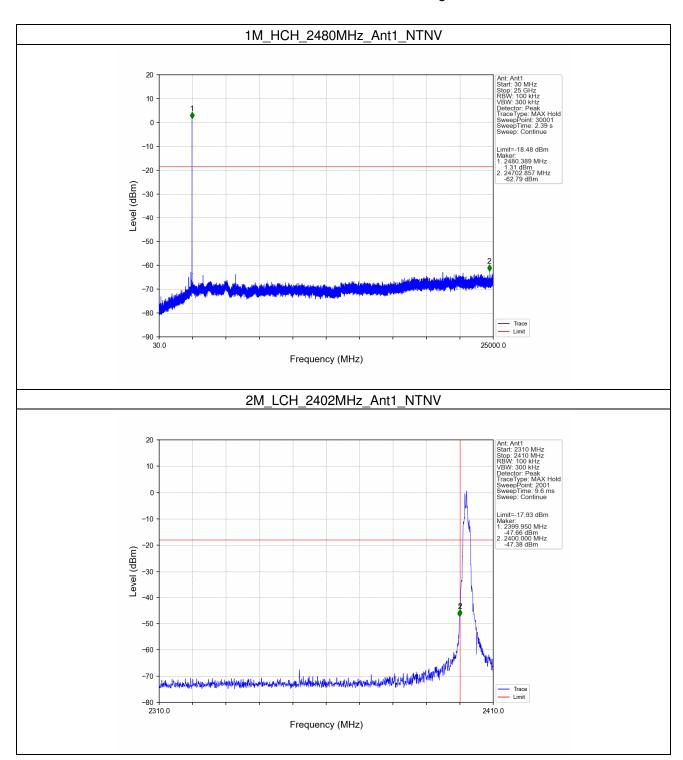
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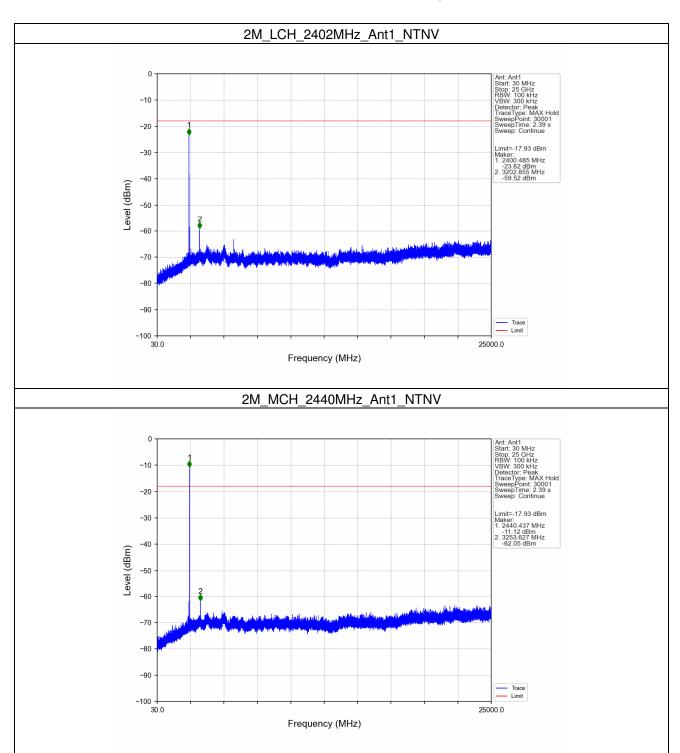
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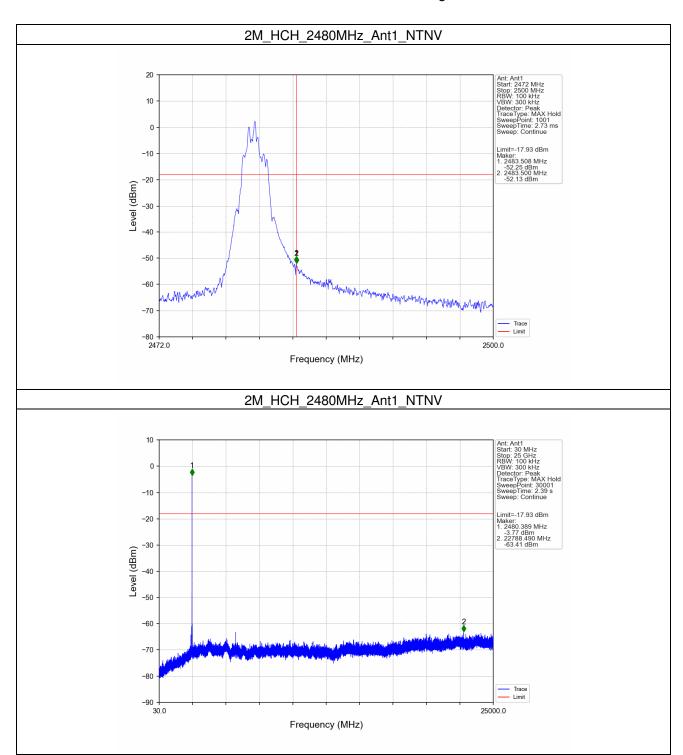
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For 2.4GHz Wi-Fi

1. Duty Cycle

1.1 Test Result

#### 1.1.1 Ant1

				An	t1		
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2412	8.387	19.977	41.98	3.77	0.00
802.11b	SISO	2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
		2412	1.393	9.920	14.04	8.53	0.00
802.11g	SISO	2437	1.393	23.743	5.87	12.32	84.03
		2462	1.390	20.367	6.82	11.66	7.64
000.44		2422	0.650	50.130	1.30	18.87	0.00
802.11n (HT40)	SISO	2437	0.647	40.024	1.62	17.91	4.89
(11170)		2452	0.650	20.006	3.25	14.88	3.27



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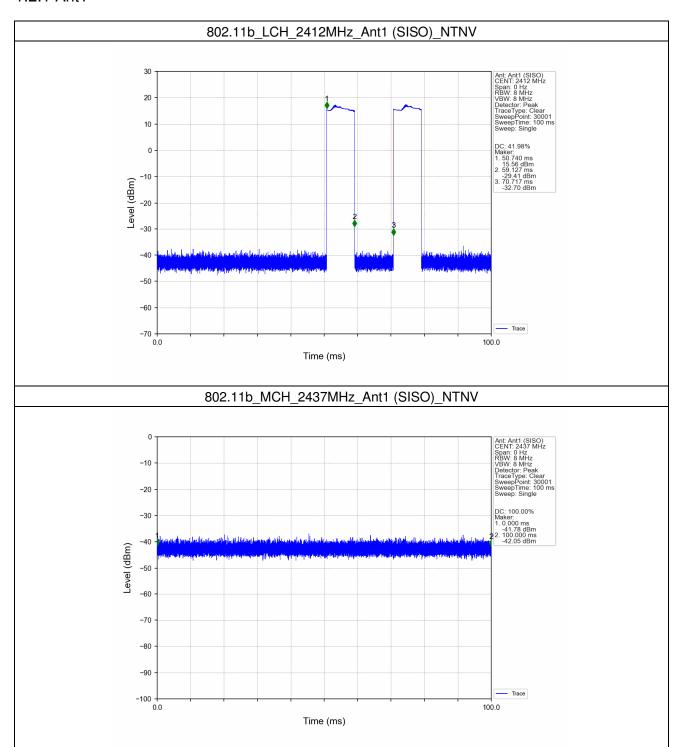


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#### 1.2 Test Graph

#### 1.2.1 Ant1





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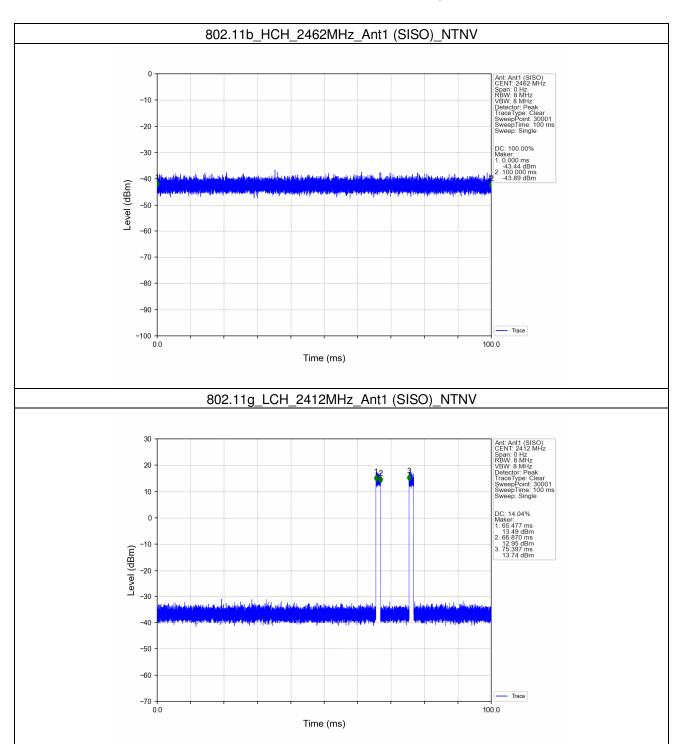
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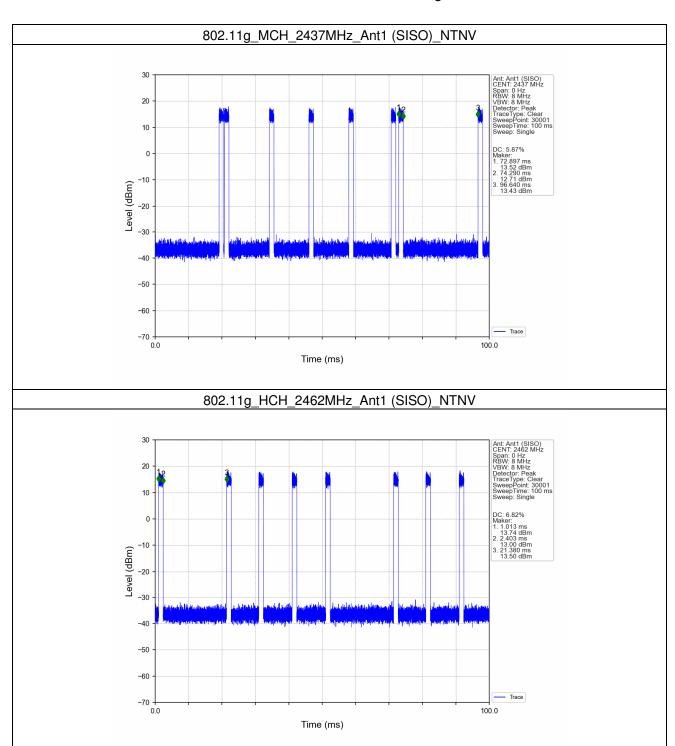
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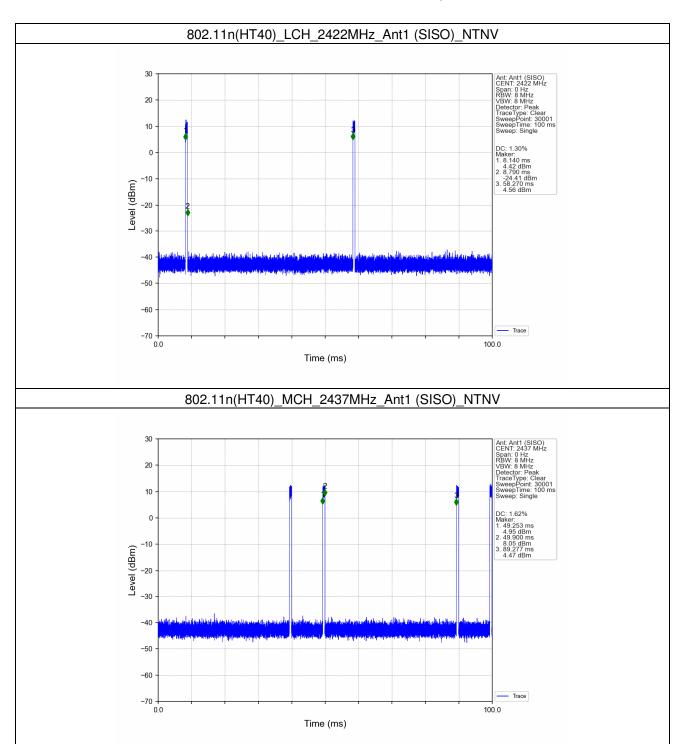
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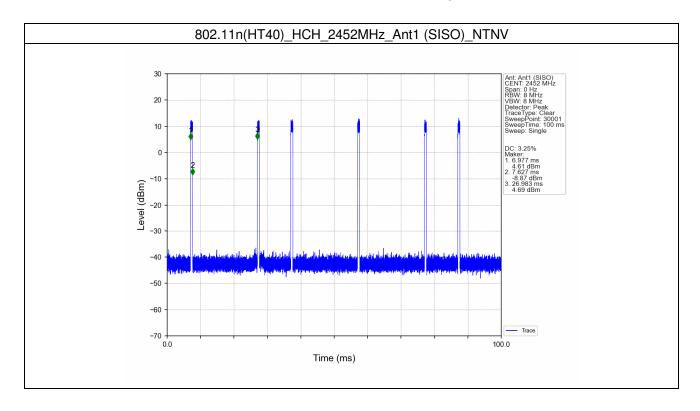
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#### 2. Bandwidth

#### 2.1 Test Result

#### 2.1.2 6dB BW

Mada	TX	Frequency	ANIT	6dB Bandv	Vordict	
Mode	Type	(MHz)	ANT	Result	Limit	Verdict
		2412	1	10.059	>=0.5	Pass
802.11b	SISO	2437	1	9.562	>=0.5	Pass
		2462	1	8.131	>=0.5	Pass
	SISO	2412	1	16.033	>=0.5	Pass
802.11g		2437	1	16.333	>=0.5	Pass
		2462	1	16.291	>=0.5	Pass
		2422	1	35.112	>=0.5	Pass
802.11n (HT40)	SISO	2437	1	35.045	>=0.5	Pass
(11140)		2452	1	35.112	>=0.5	Pass



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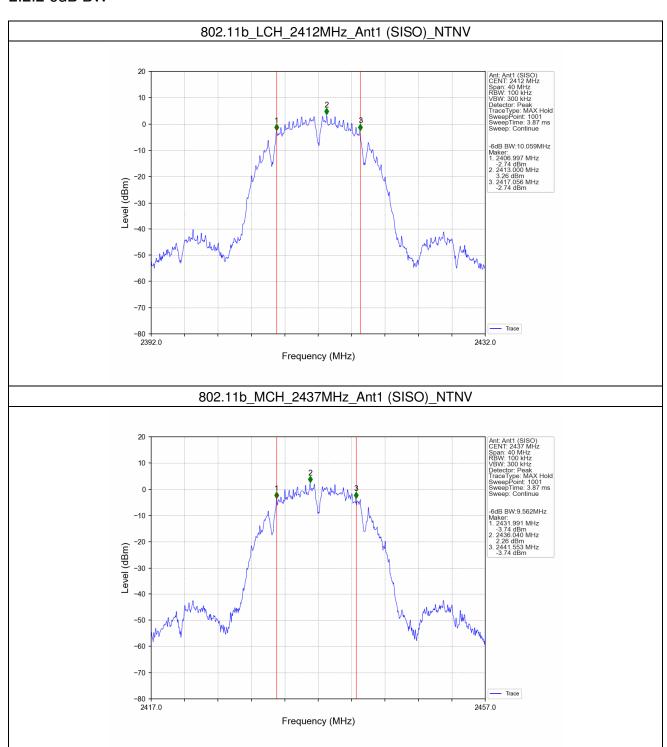
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#### 2.2 Test Graph

#### 2.2.2 6dB BW





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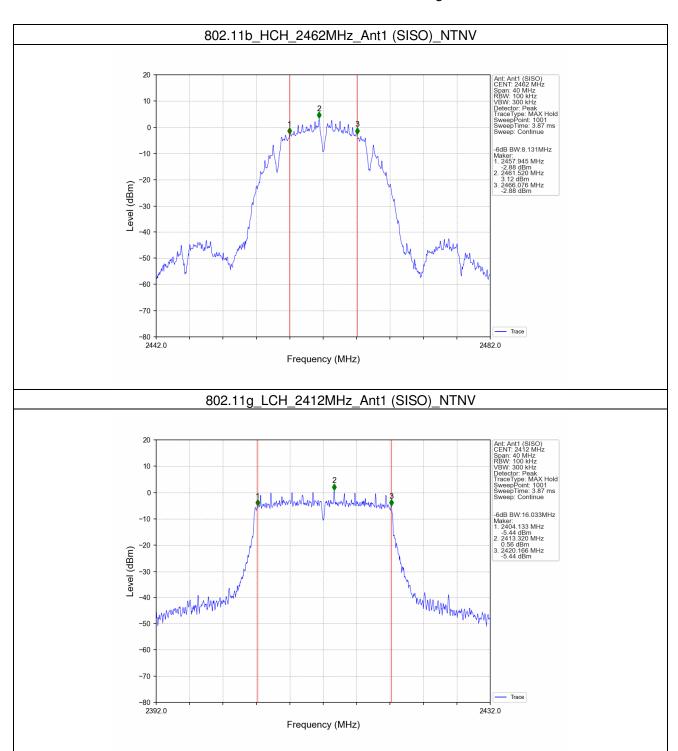
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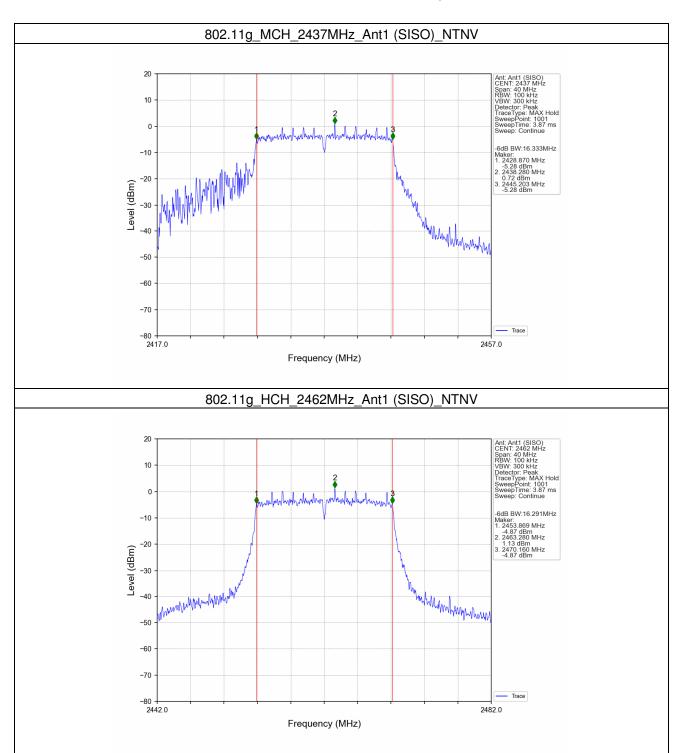
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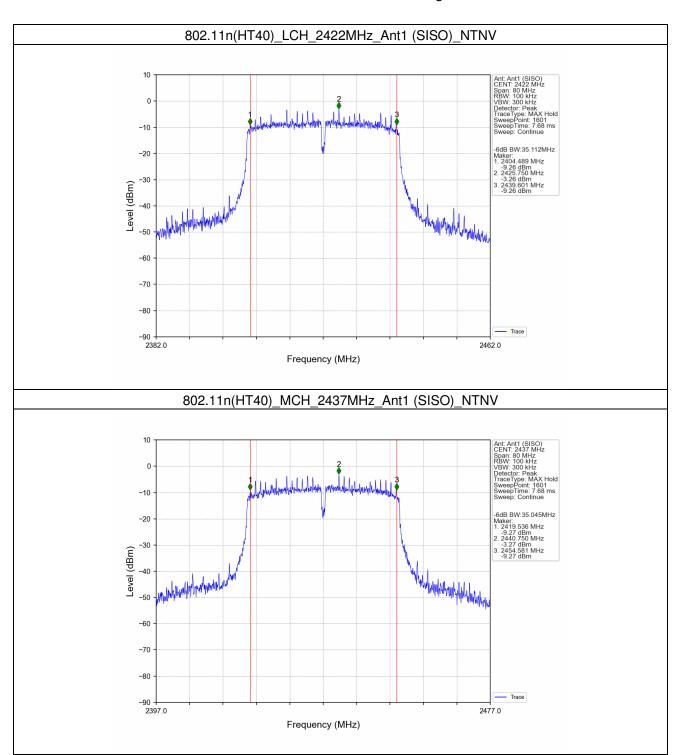
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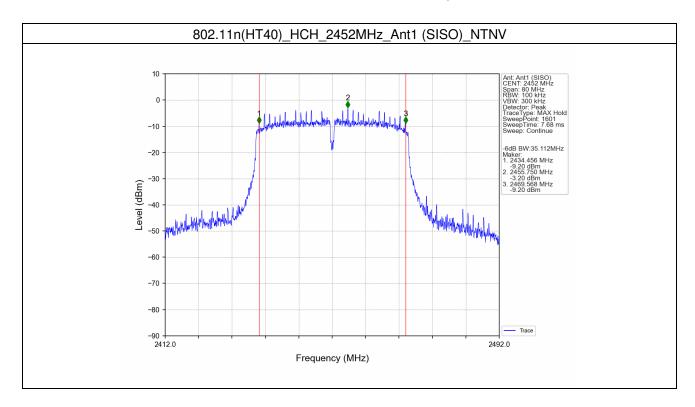
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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

#### 3.1.1 Power

Mode	TX	Frequency	Maximum Peak Conduct	Maximum Peak Conducted Output Power (dBm)			
	Туре	(MHz)	ANT1	Limit	Verdict		
		2412	15.20	<=30	Pass		
802.11b	SISO	2437	14.52	<=30	Pass		
		2462	14.20	<=30	Pass		
	SISO	2412	18.44	<=30	Pass		
802.11g		2437	18.97	<=30	Pass		
		2462	18.91	<=30	Pass		
222.44		2422	16.82	<=30	Pass		
802.11n (HT40)	SISO	2437	16.84	<=30	Pass		
(11140)		2452	17.07	<=30	Pass		
Note1: Antenr	na Gain: Ant1:	: 4.40dBi;			_		



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### 4. Maximum Power Spectral Density

#### 4.1 Test Result

#### 4.1.1 PSD

NAl -	TX	Frequency	Maximum PS	Manaliat	
Mode	Type	(MHz)	ANT1	Limit	Verdict
		2412	-10.11	<=8	Pass
802.11b	SISO	2437	-9.63	<=8	Pass
		2462	-11.58	<=8	Pass
	SISO	2412	-14.06	<=8	Pass
802.11g		2437	-14.16	<=8	Pass
		2462	-13.90	<=8	Pass
		2422	-18.90	<=8	Pass
802.11n (HT40)	SISO	2437	-18.47	<=8	Pass
		2452	-18.40	<=8	Pass



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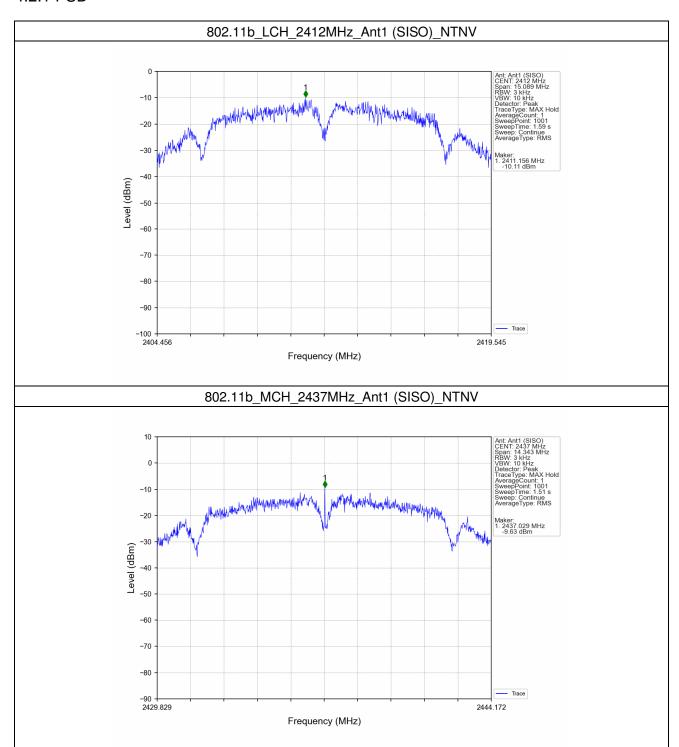


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#### 4.2 Test Graph

#### 4.2.1 PSD





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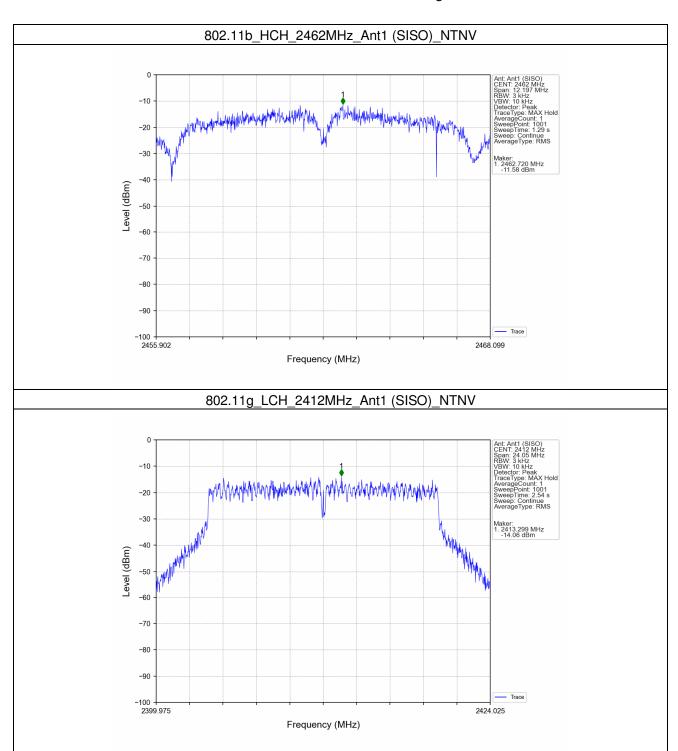
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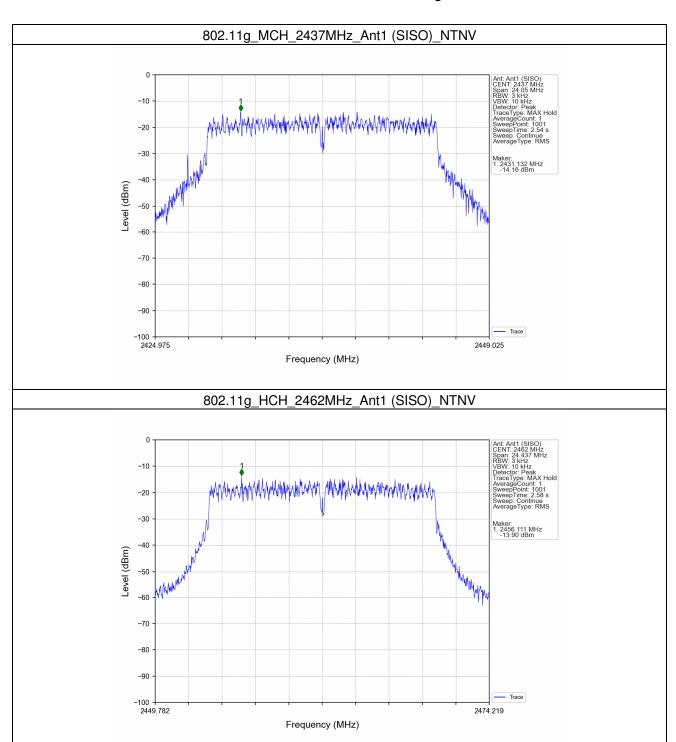
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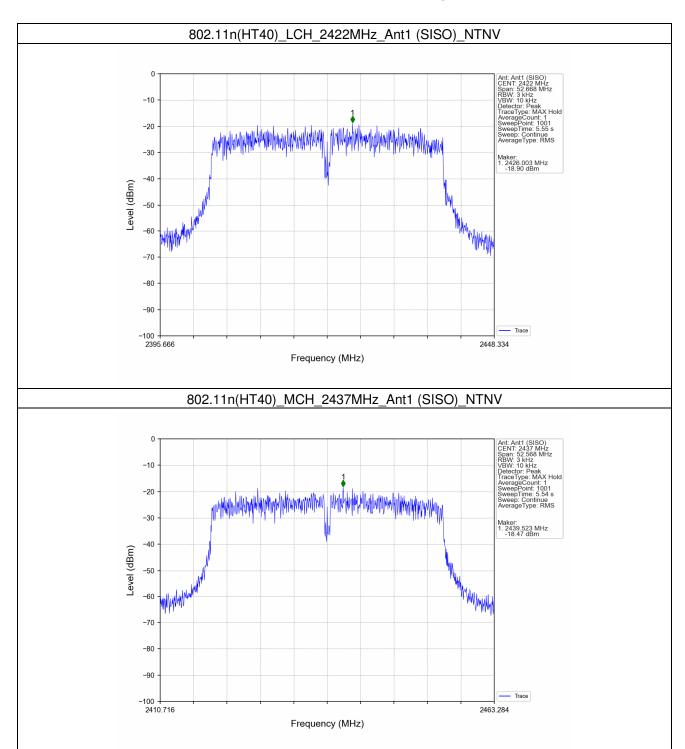
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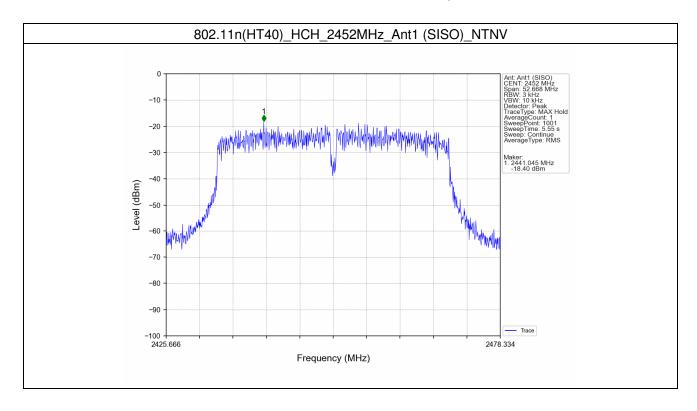
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#### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	
802.11b	SISO	2412	1	3.24	
		2437	1	2.13	
		2462	1	1.95	
802.11g	SISO	2412	1	-0.30	
		2437	1	0.00	
		2462	1	0.51	
802.11n (HT40)	SISO	2422	1	-6.34	
		2437	1	-3.36	
		2452	1	-4.06	

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.

#### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.24	-16.76	Pass
		2437	1	3.24	-16.76	Pass
		2462	1	3.24	-16.76	Pass
802.11g	SISO	2412	1	0.51	-19.49	Pass
		2437	1	0.51	-19.49	Pass
		2462	1	0.51	-19.49	Pass
802.11n (HT40)	SISO	2422	1	-3.36	-23.36	Pass
		2437	1	-3.36	-23.36	Pass
		2452	1	-3.36	-23.36	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.



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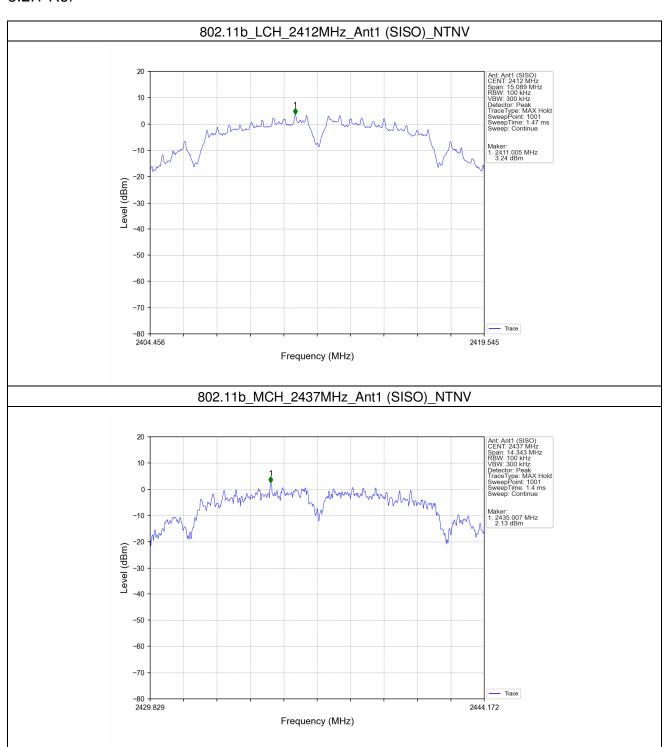
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#### 5.2 Test Graph

#### 5.2.1 Ref





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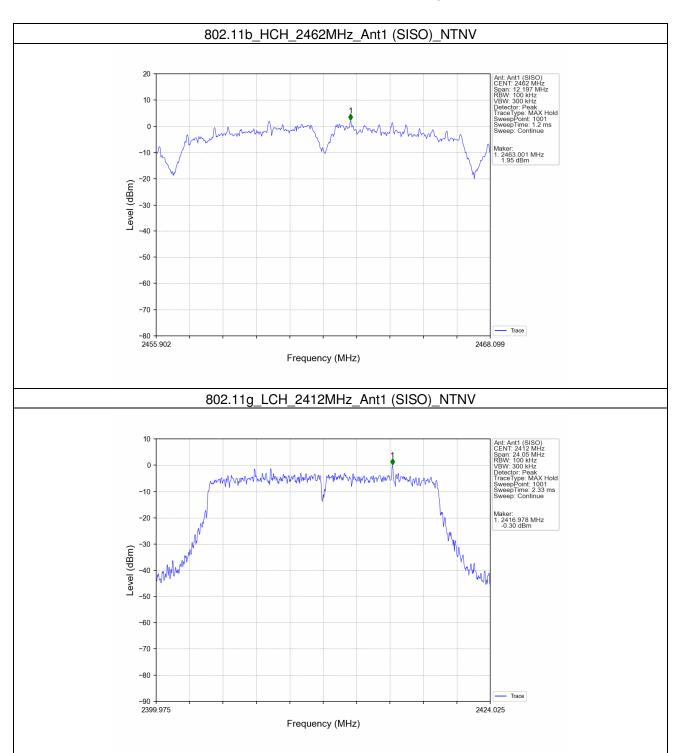
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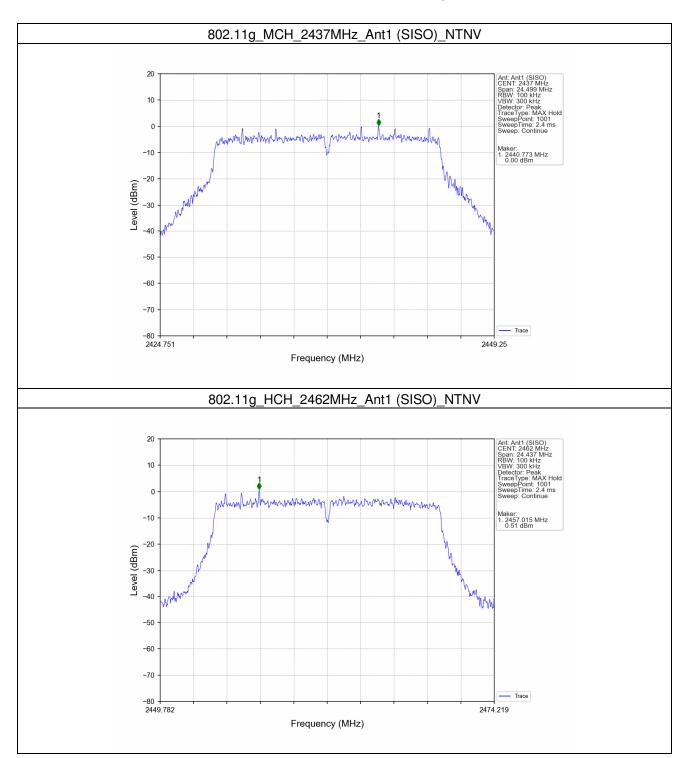
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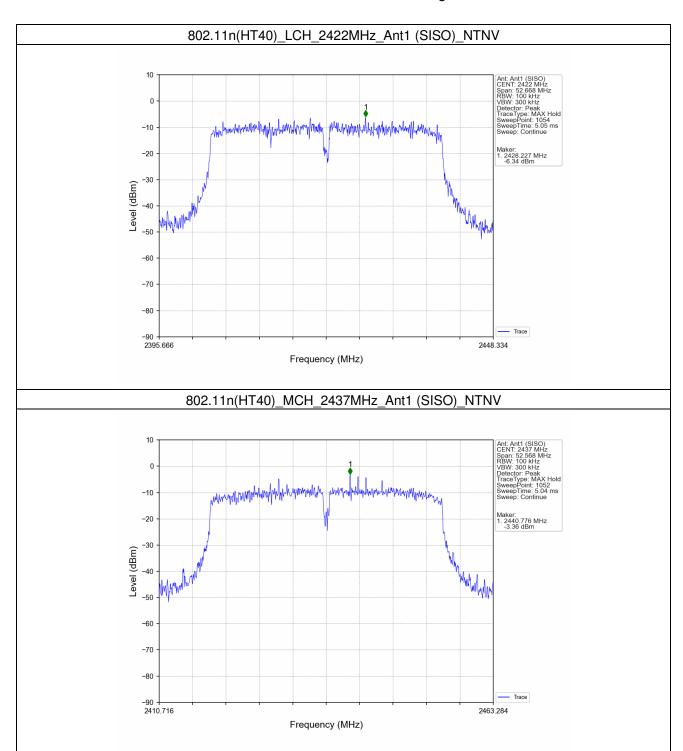
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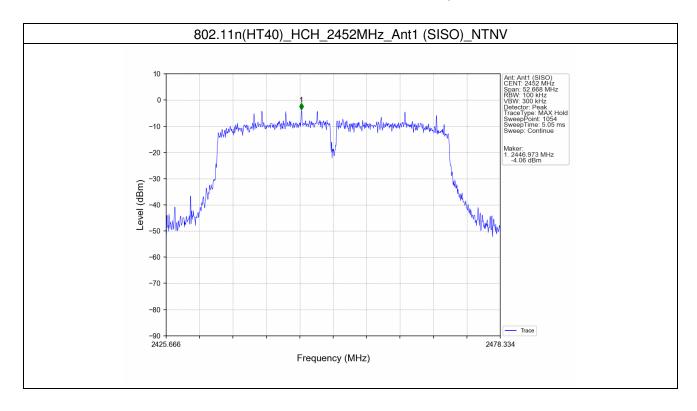
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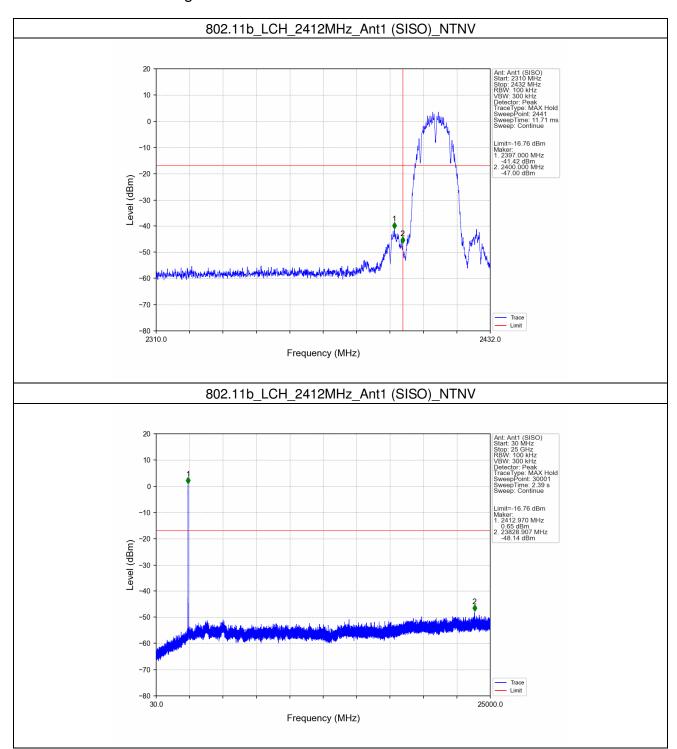


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#### 5.2.2 CSE and Band Edges





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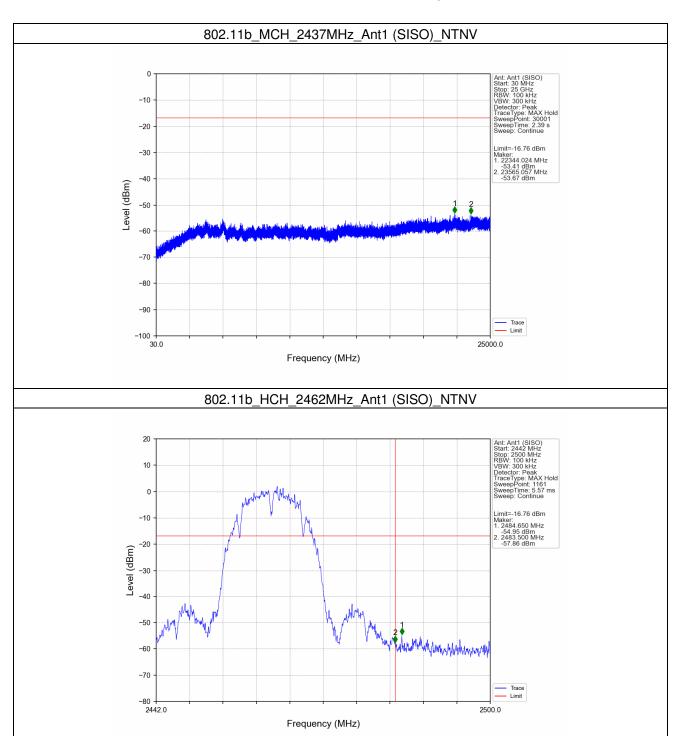
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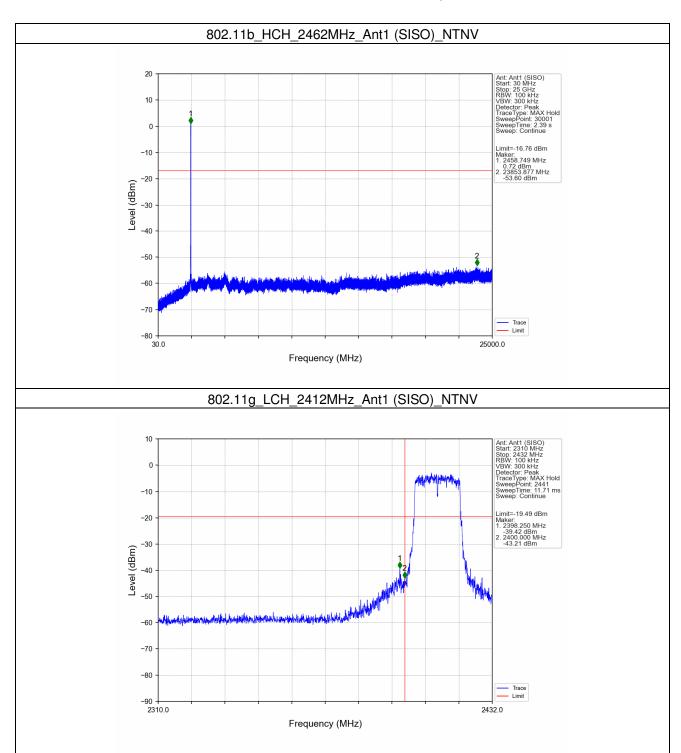
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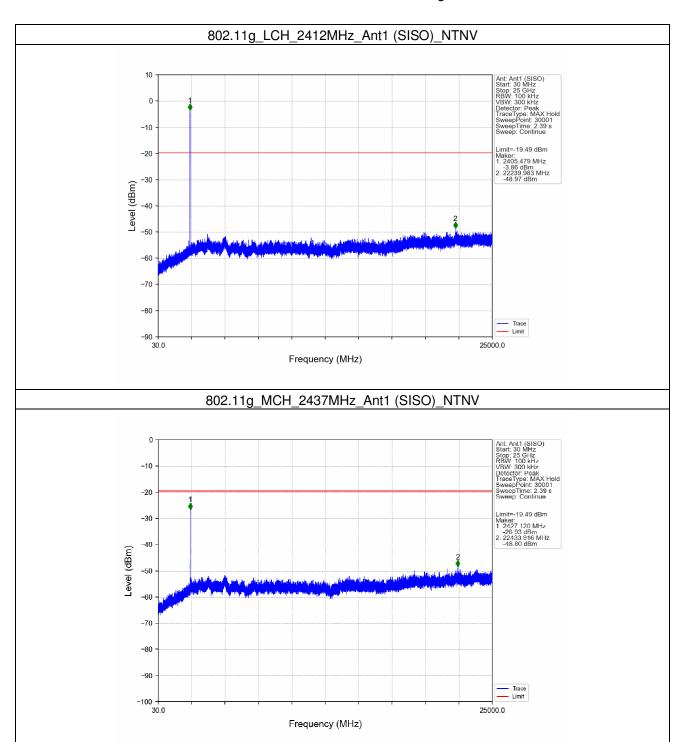
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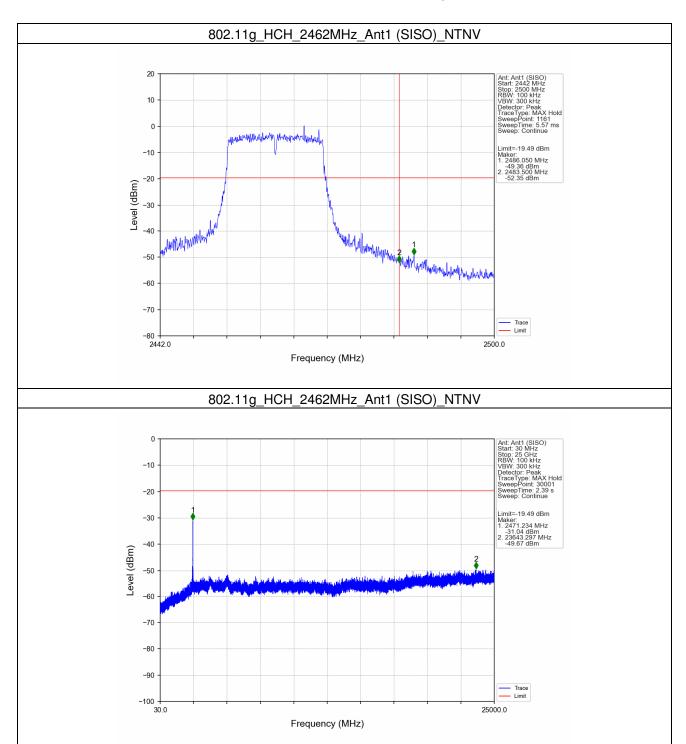
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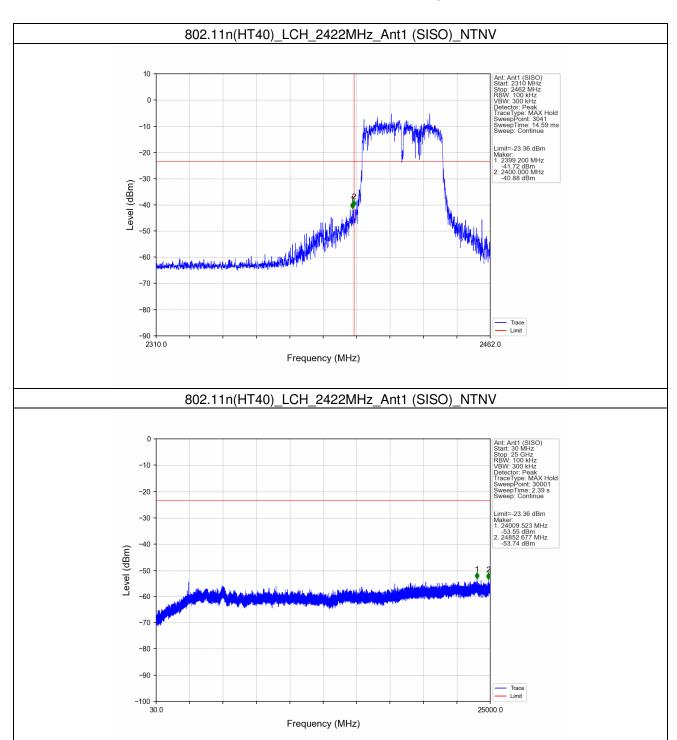
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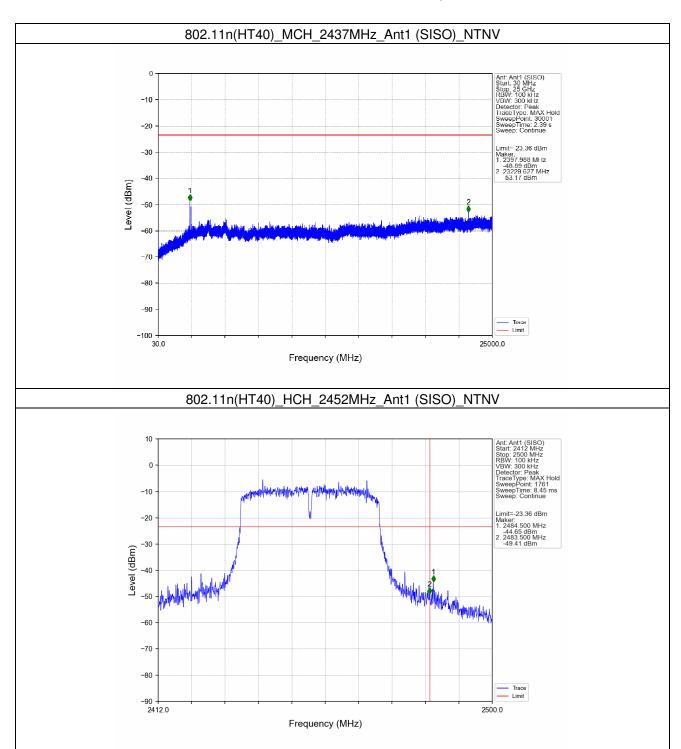
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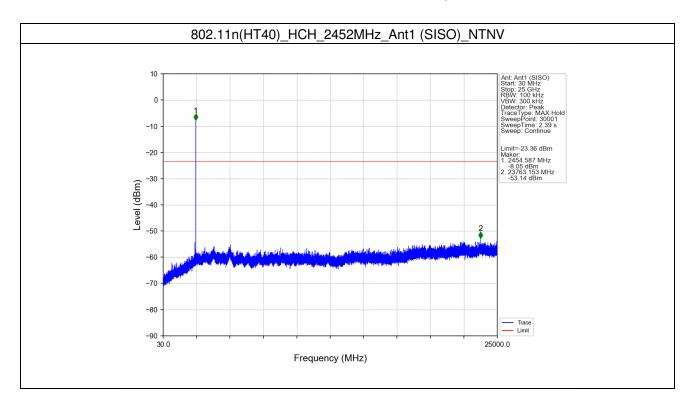
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