

Report No.: SZCR210502117302

Page: 90 of 136

# 11 Appendix

#### Appendix for 15.247

#### 1. Duty Cycle

#### 1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2412	SISO	1	12.420	12.570	98.81	0.05
802.11b	2437	SISO	1	12.420	12.540	99.04	0.04
	2462	SISO	1	12.420	12.590	98.65	0.06
	2412	SISO	1	2.038	2.190	93.06	0.31
802.11g	2437	SISO	1	2.036	2.195	92.76	0.33
	2462	SISO	1	2.036	2.185	93.18	0.31
802.11n(HT20)	2412	SISO	1	1.890	2.050	92.20	0.35
	2437	SISO	1	1.896	2.067	91.73	0.37
	2462	SISO	1	1.890	2.058	91.84	0.37
802.11n(HT40)	2422	SISO	1	0.943	1.184	79.65	0.99
	2437	SISO	1	0.922	1.162	79.35	1.00
	2452	SISO	1	0.944	1.184	79.73	0.98

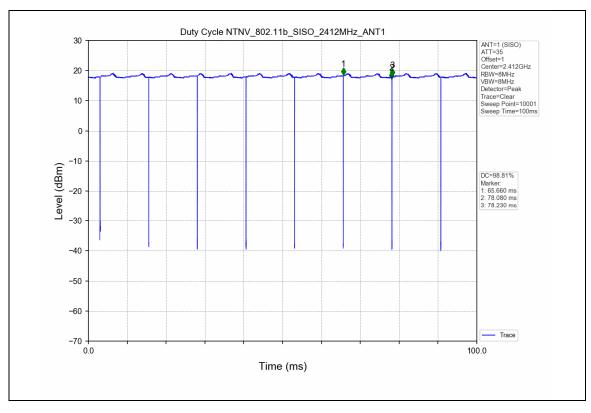


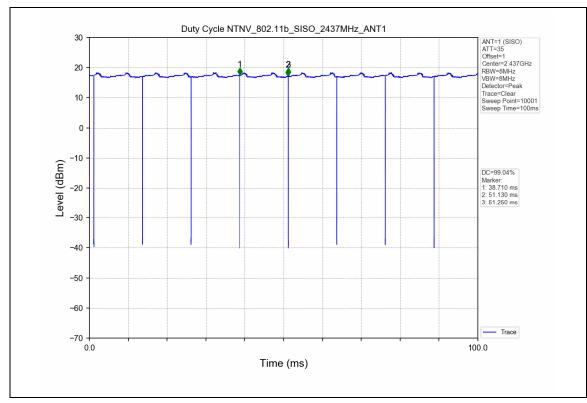


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91 of 136 Page:

#### 1.2 Test Graph







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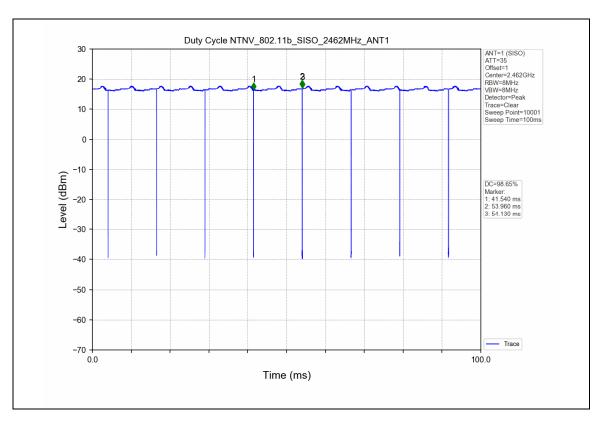
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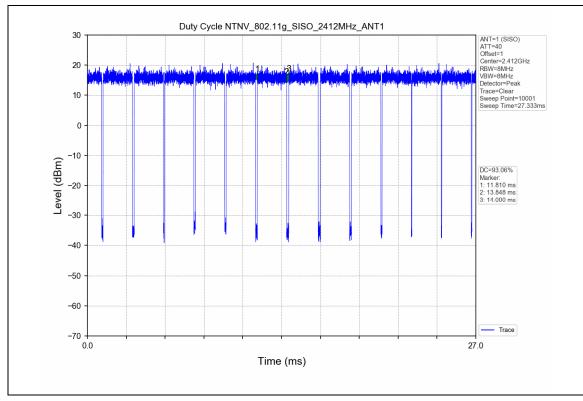
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92 of 136 Page:







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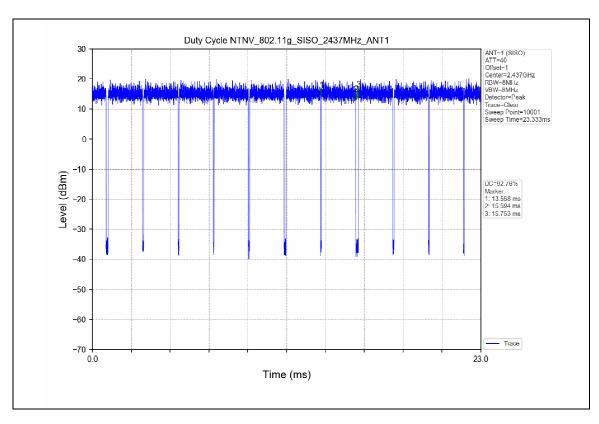
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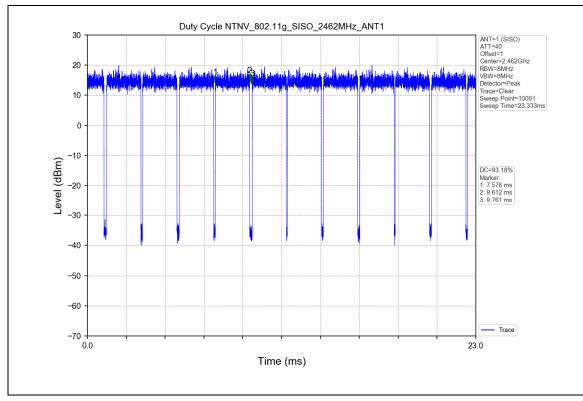
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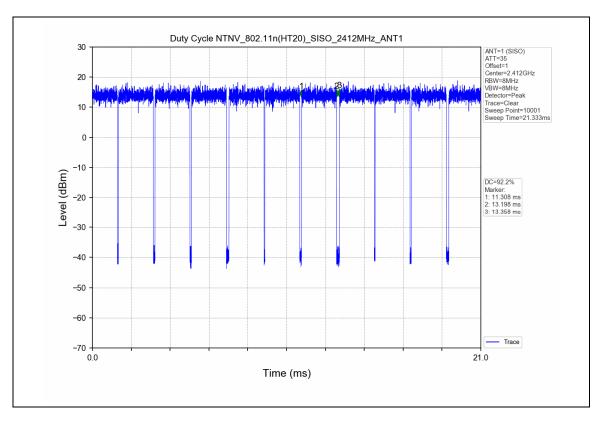
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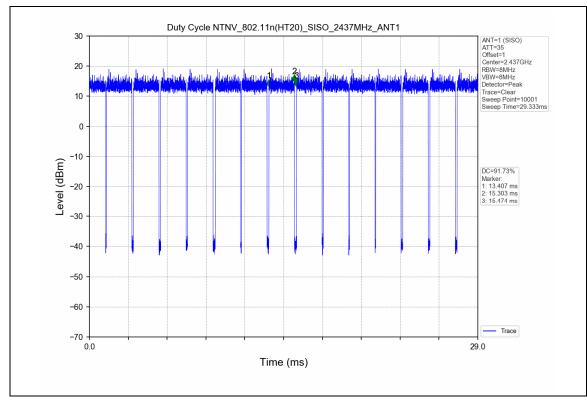
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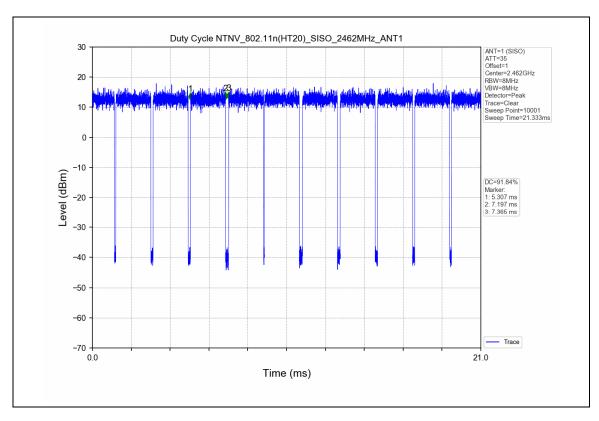
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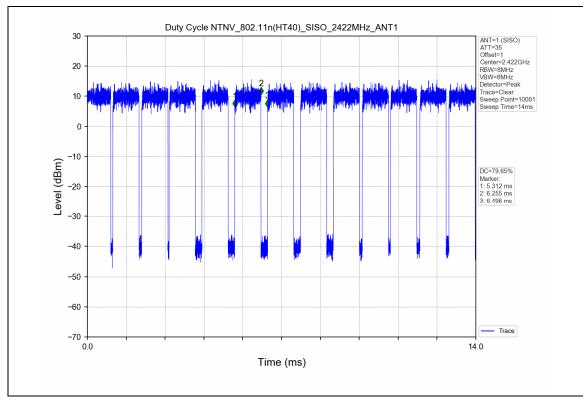
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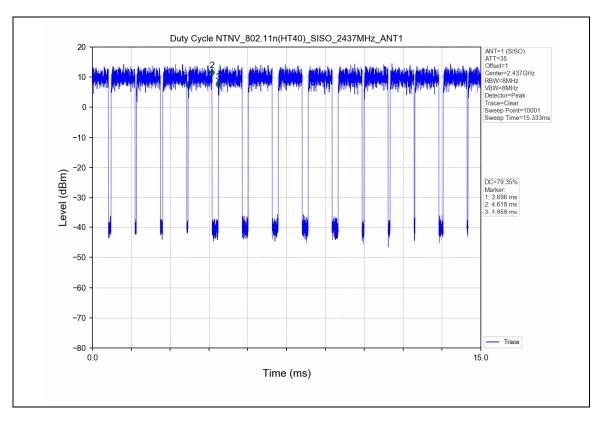
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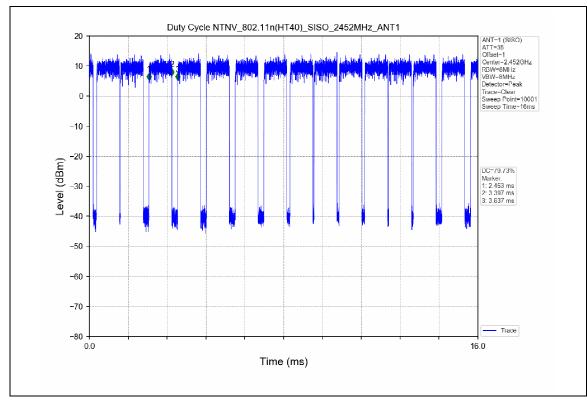
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Report No.: SZCR210502117302

Page: 97 of 136

#### 2. Bandwidth

#### 2.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	6dB Bai	Vandiat	
				Test Result (MHz)	Limits (MHz)	Verdict
	2412	SISO	1	8.608	≥0.5	PASS
802.11b	2437	SISO	1	9.082	≥0.5	PASS
	2462	SISO	1	9.019	≥0.5	PASS
802.11g	2412	SISO	1	16.388	≥0.5	PASS
	2437	SISO	1	16.392	≥0.5	PASS
	2462	SISO	1	16.410	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.567	≥0.5	PASS
	2437	SISO	1	17.579	≥0.5	PASS
	2462	SISO	1	17.566	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.594	≥0.5	PASS
	2437	SISO	1	35.587	≥0.5	PASS
	2452	SISO	1	35.760	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth			
				Test Result (MHz)			
	2412	SISO	1	13.511	Only for Report Use		
802.11b	2437	SISO	1	13.508	Only for Report Use		
	2462	SISO	1	13.473	Only for Report Use		
802.11g	2412	SISO	1	16.846	Only for Report Use		
	2437	SISO	1	16.850	Only for Report Use		
	2462	SISO	1	16.935	Only for Report Use		
802.11n(HT20)	2412	SISO	1	17.869	Only for Report Use		
	2437	SISO	1	17.858	Only for Report Use		
	2462	SISO	1	17.838	Only for Report Use		
802.11n(HT40)	2422	SISO	1	36.503	Only for Report Use		
	2437	SISO	1	36.663	Only for Report Use		
	2452	SISO	1	36.640	Only for Report Use		



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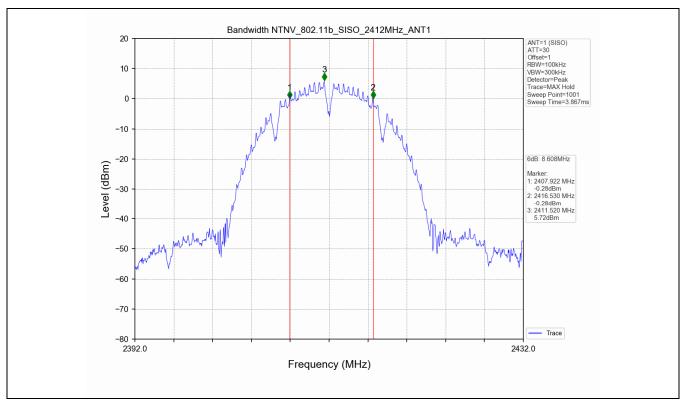
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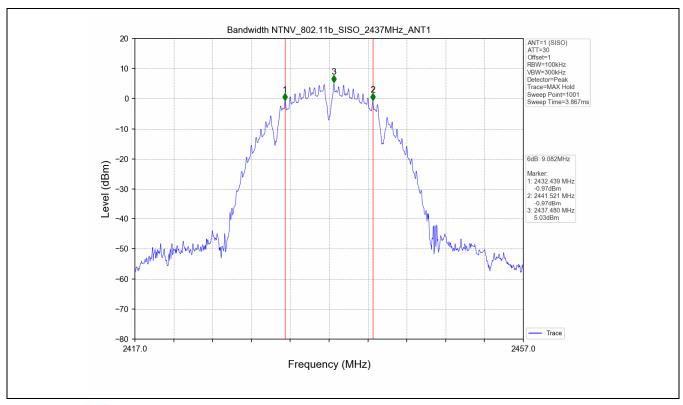


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#### 2.2 Test Graph - 6dB Bandwidth







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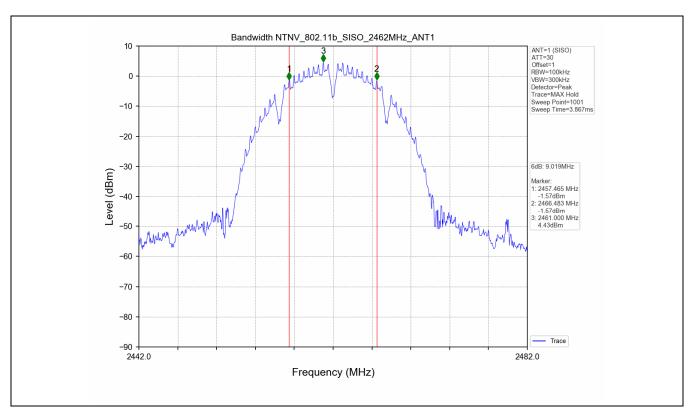
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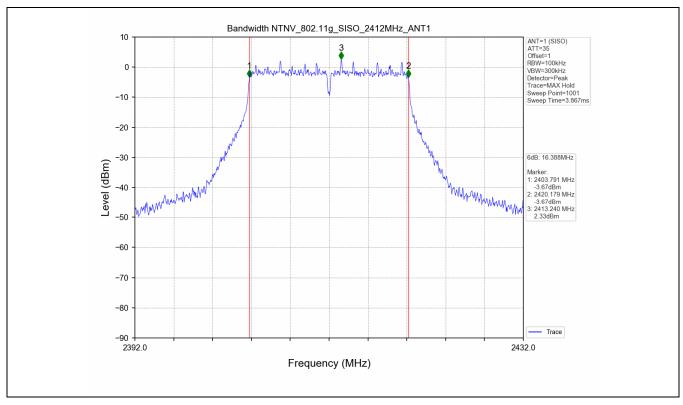
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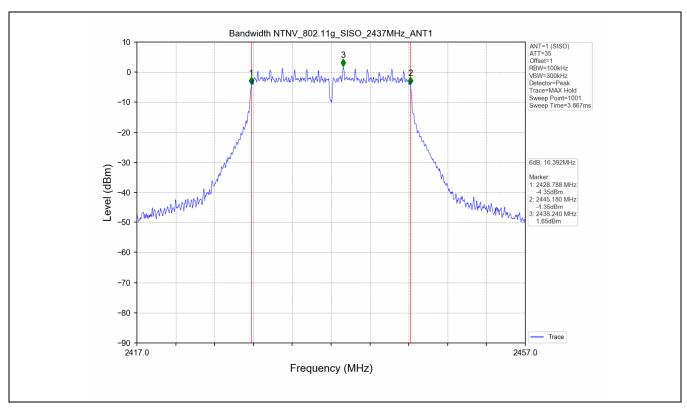
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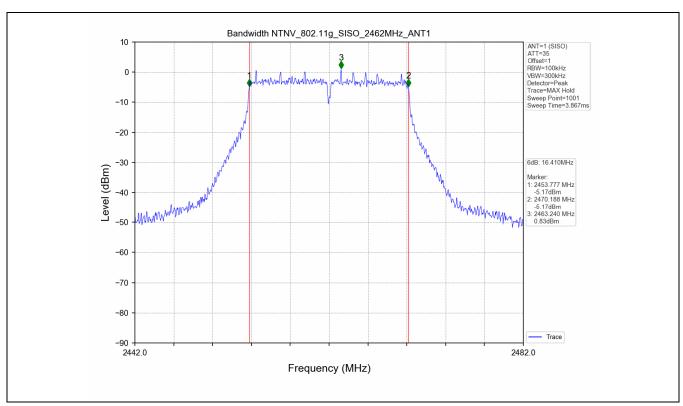
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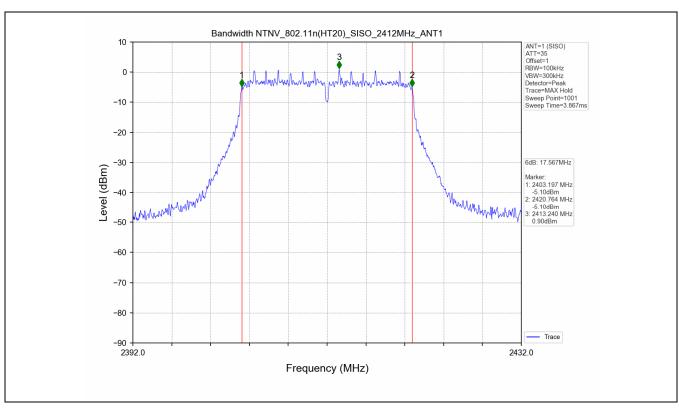
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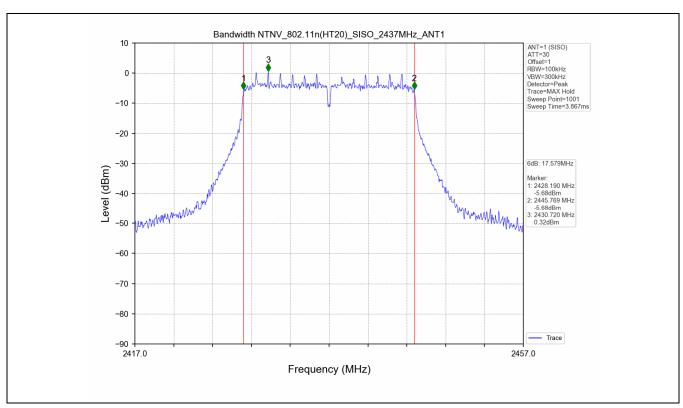
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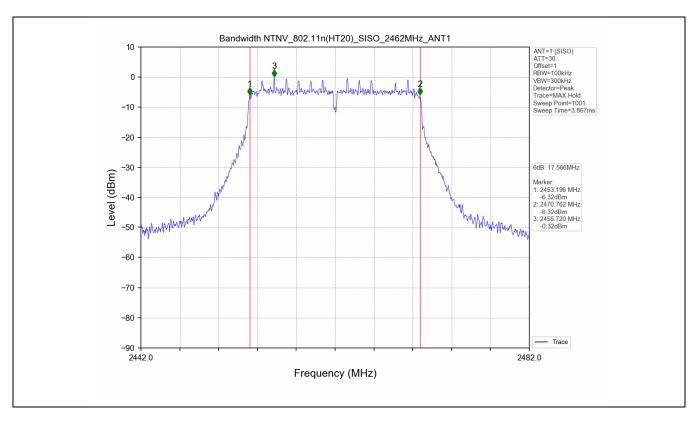
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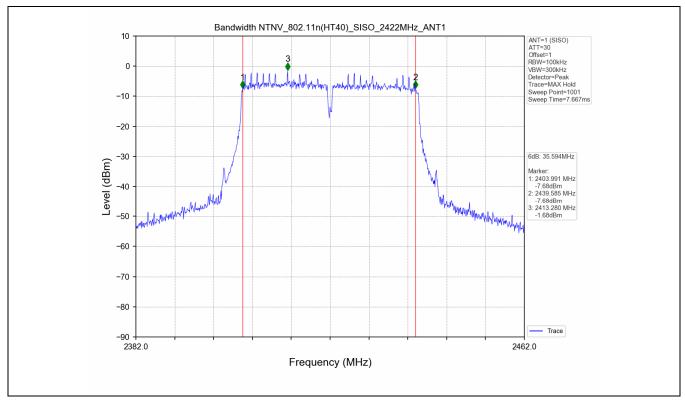
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102 of 136 Page:







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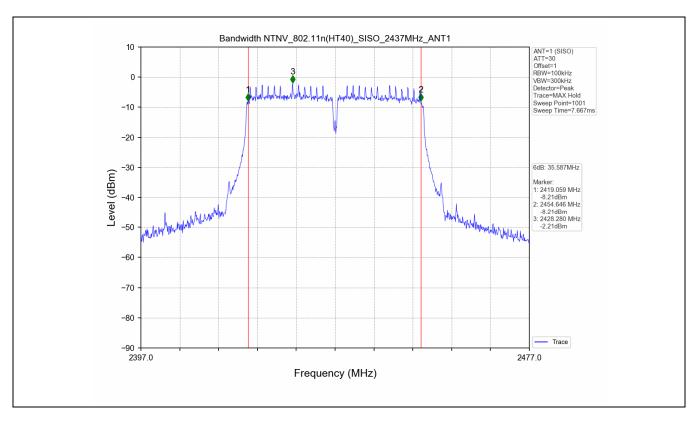
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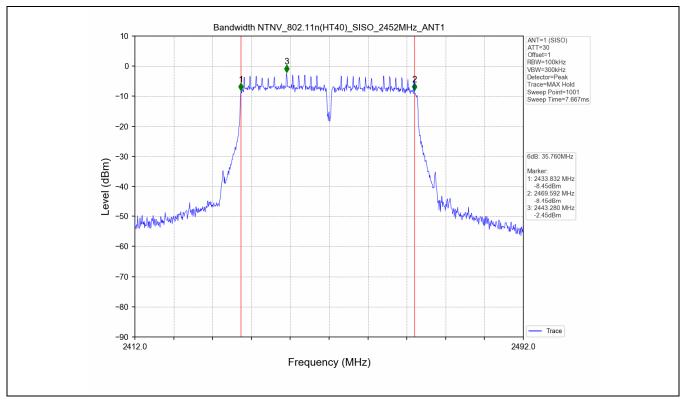
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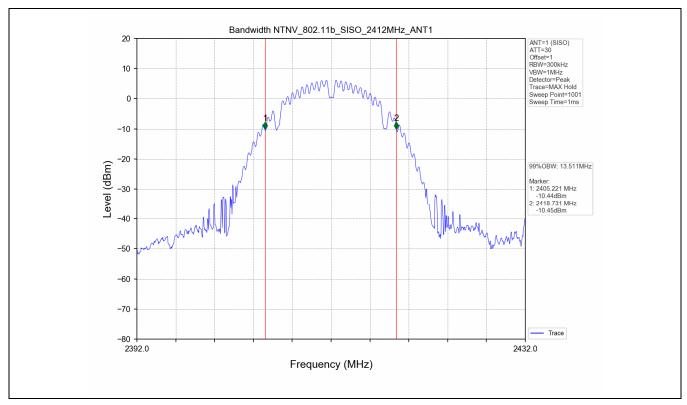
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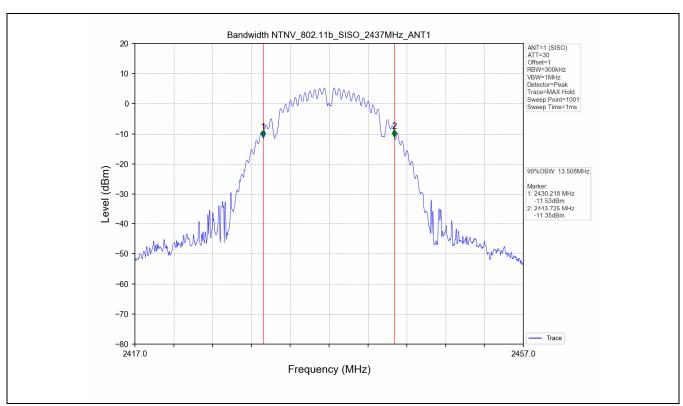


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104 of 136 Page:

#### 2.3 Test Graph - 99% Occupied Bandwidth







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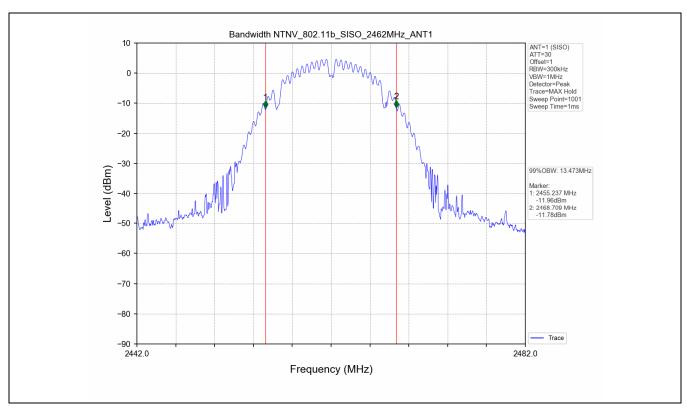
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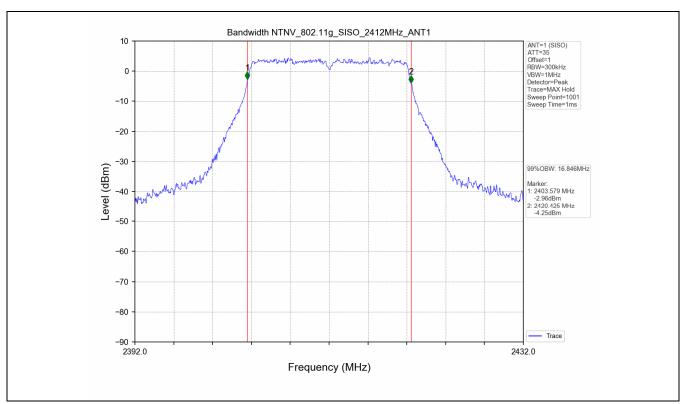
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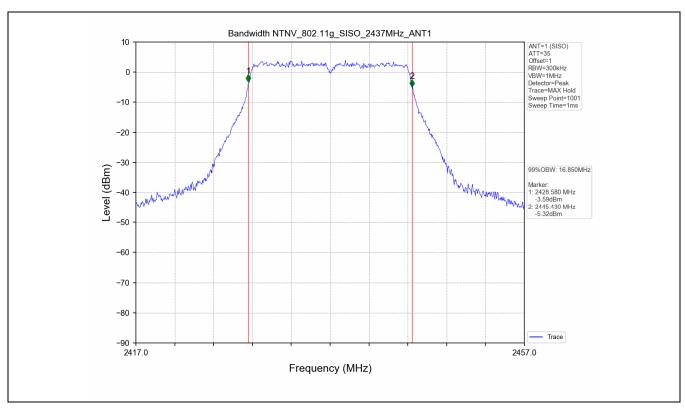
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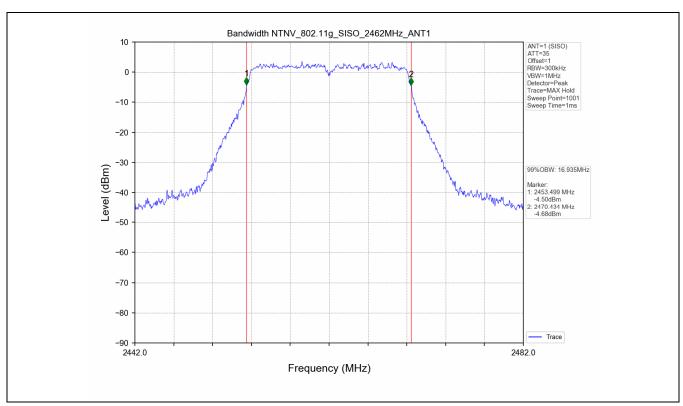
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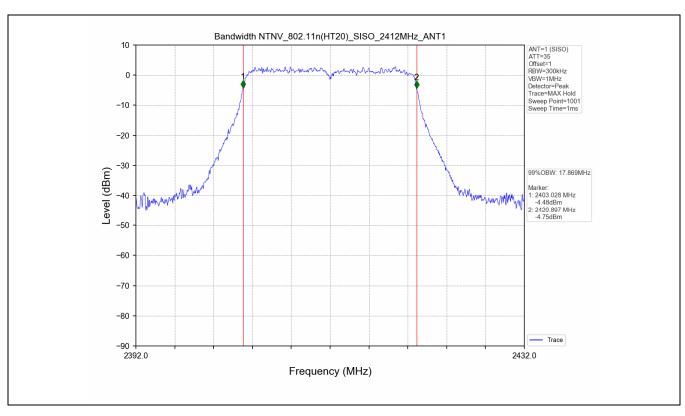
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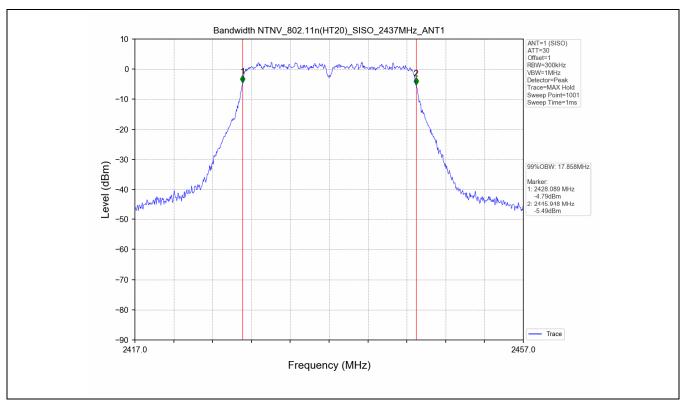
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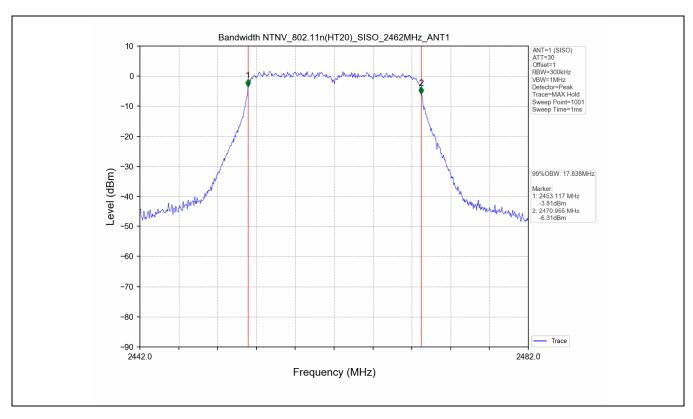
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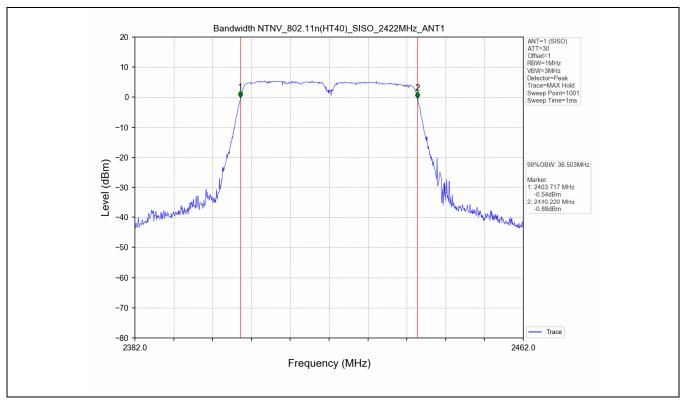
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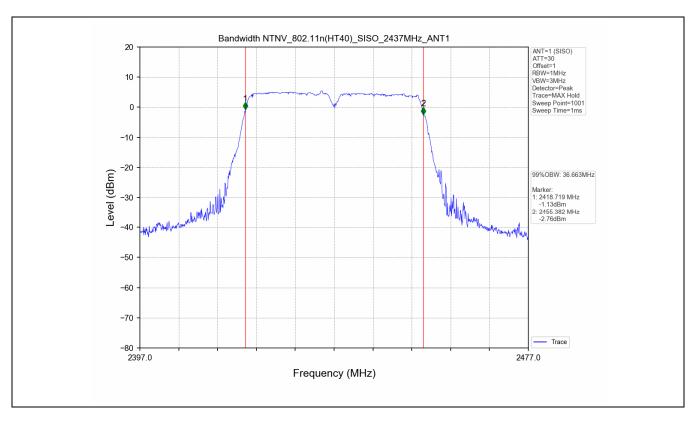
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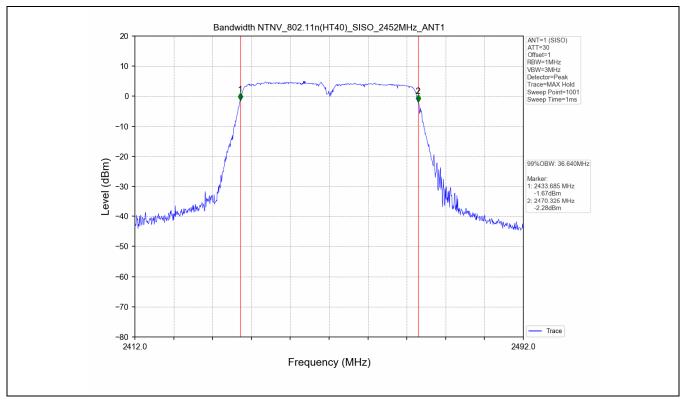
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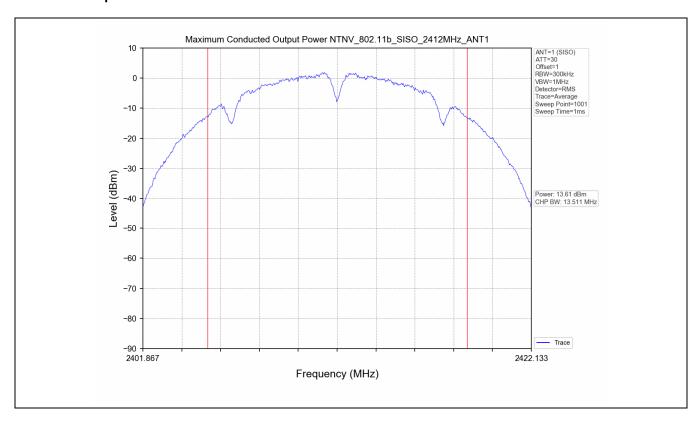
110 of 136 Page:

#### 3. Maximum Conducted Output Power

#### 3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Average Output Power (dBm)	Limits (dBm)	Verdict	
	, ,		Ant 1			
	2412	SISO	13.61	30	PASS	
802.11b	2437	SISO	12.72	30	PASS	
	2462	SISO	12.15	30	PASS	
	2412	SISO	13.22	30	PASS	
802.11g	2437	SISO	12.56	30	PASS	
	2462	SISO	11.94	30	PASS	
802.11n(HT20)	2412	SISO	11.83	30	PASS	
	2437	SISO	11.19	30	PASS	
	2462	SISO	10.61	30	PASS	
802.11n(HT40)	2422	SISO	11.93	30	PASS	
	2437	SISO	11.61	30	PASS	
	2452	SISO	11.19	30	PASS	

#### 3.2 Test Graph





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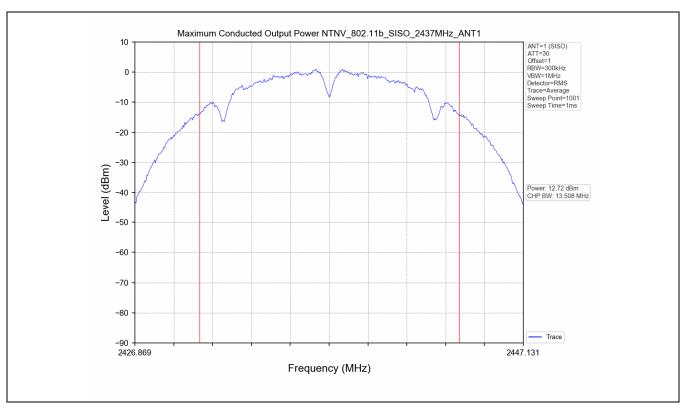
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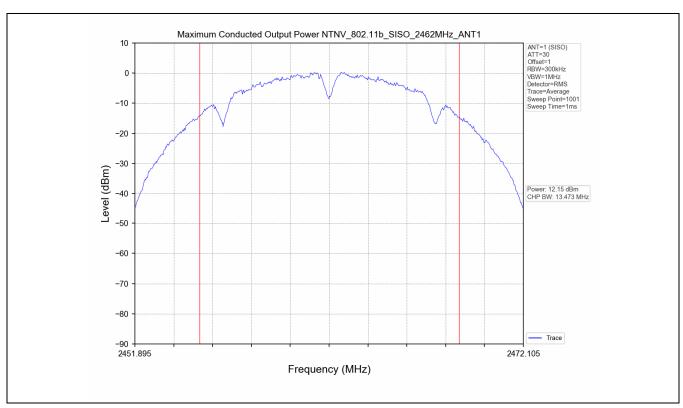
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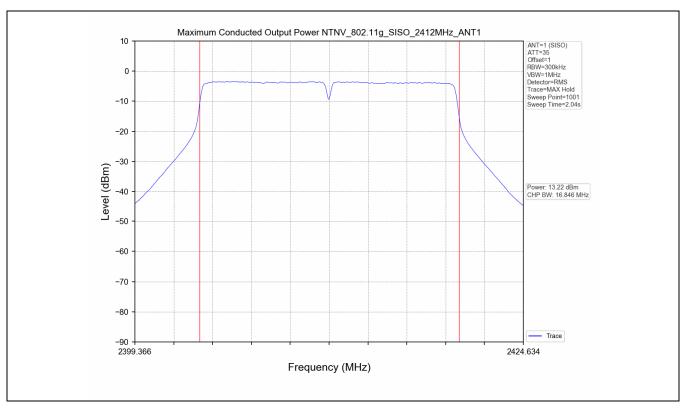
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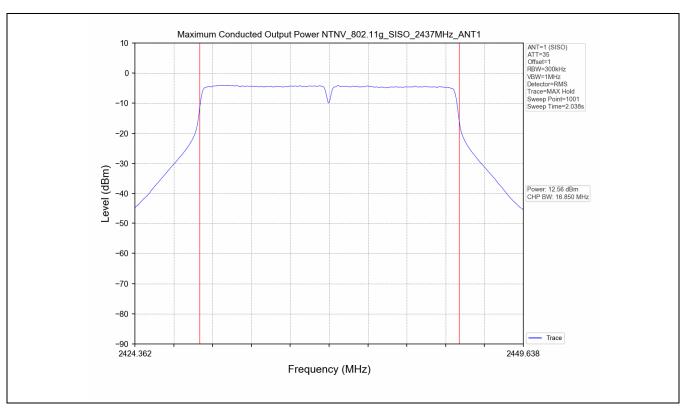
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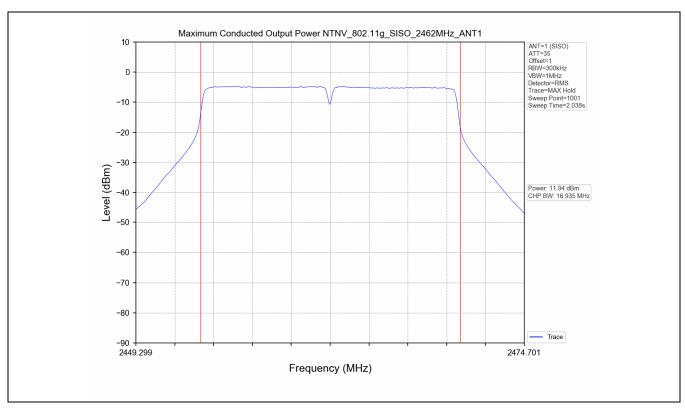
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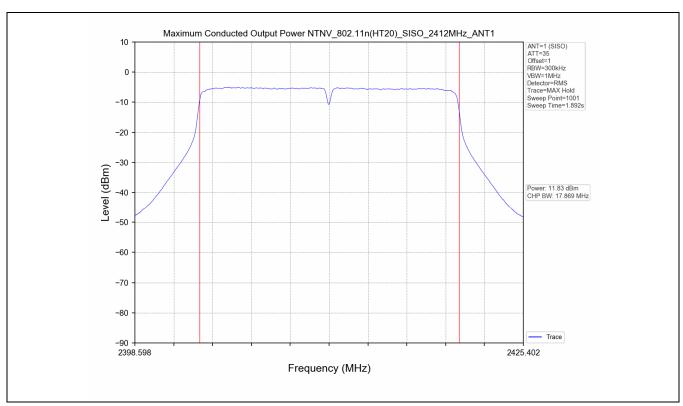
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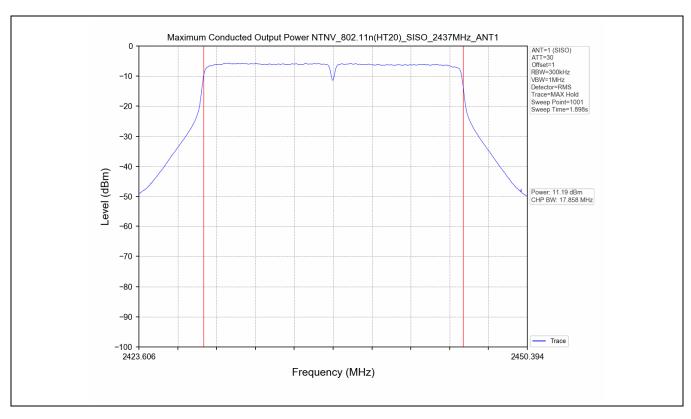
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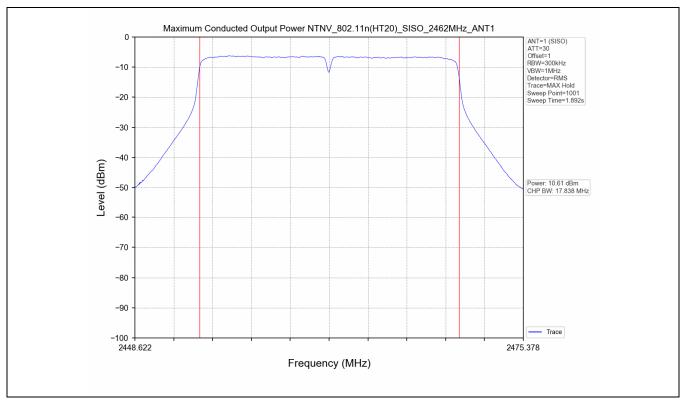
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114 of 136 Page:







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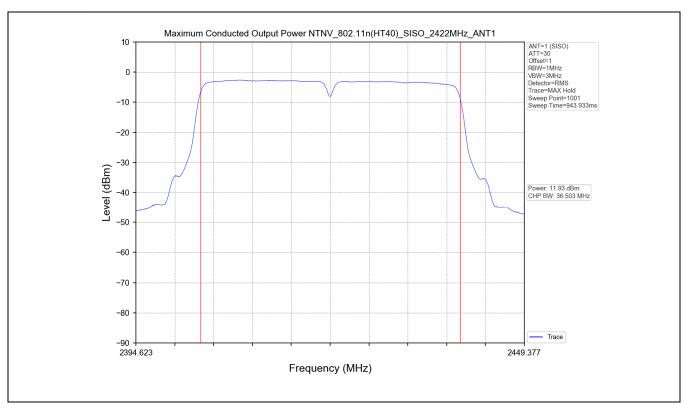
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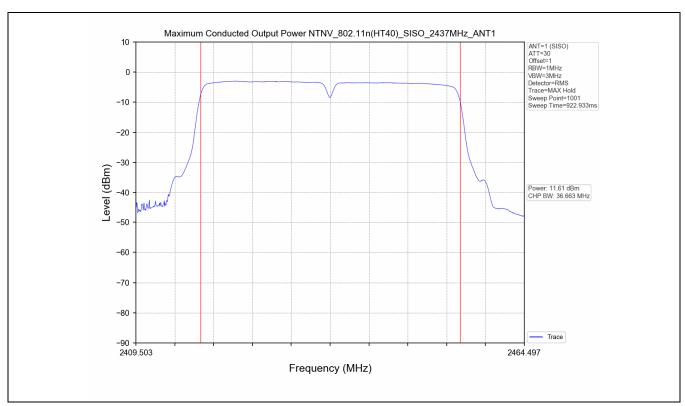
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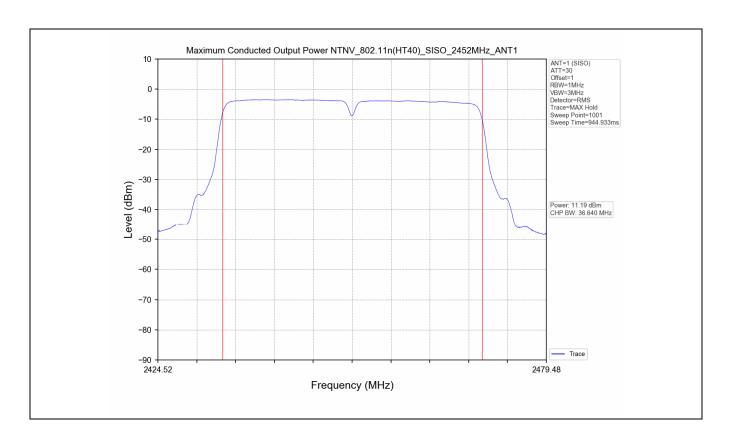
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116 of 136 Page:





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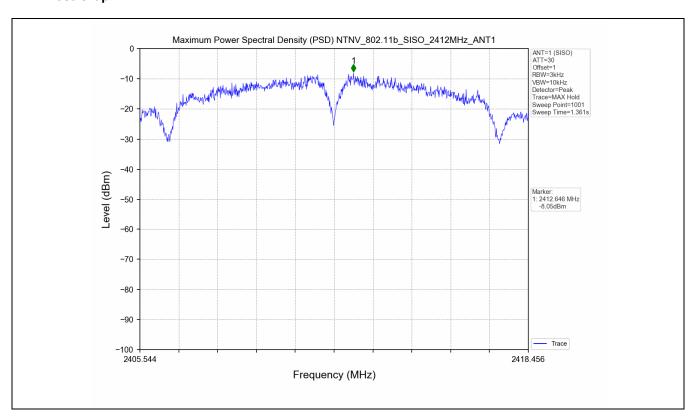
117 of 136 Page:

#### 4. Maximum Power Spectral Density (PSD)

#### 4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2412	SISO	-8.05	≤8	PASS
802.11b	2437	SISO	-9.28	≤8	PASS
	2462	SISO	-9.50	≤8	PASS
	2412	SISO	-11.23	≤8	PASS
802.11g	2437	SISO	-11.93	≤8	PASS
	2462	SISO	-13.10	≤8	PASS
802.11n(HT20)	2412	SISO	-13.53	≤8	PASS
	2437	SISO	-14.14	≤8	PASS
	2462	SISO	-14.55	≤8	PASS
802.11n(HT40)	2422	SISO	-16.91	≤8	PASS
	2437	SISO	-16.82	≤8	PASS
	2452	SISO	-16.85	≤8	PASS

#### 4.2 Test Graph





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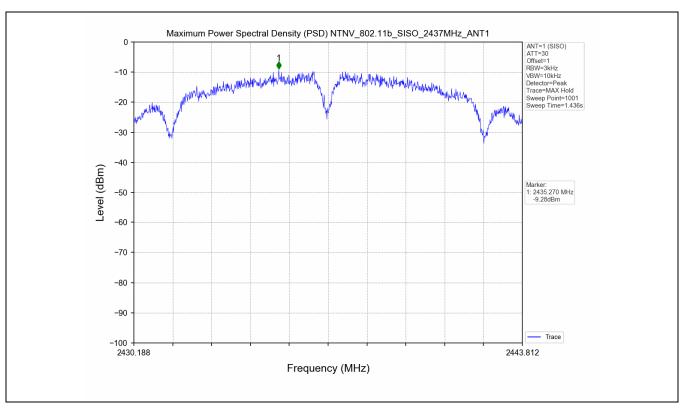
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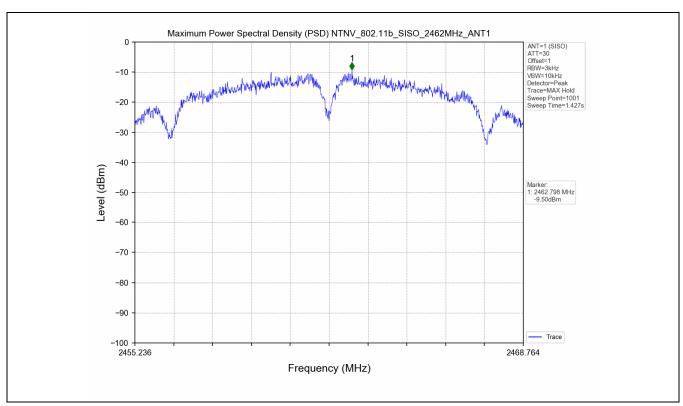
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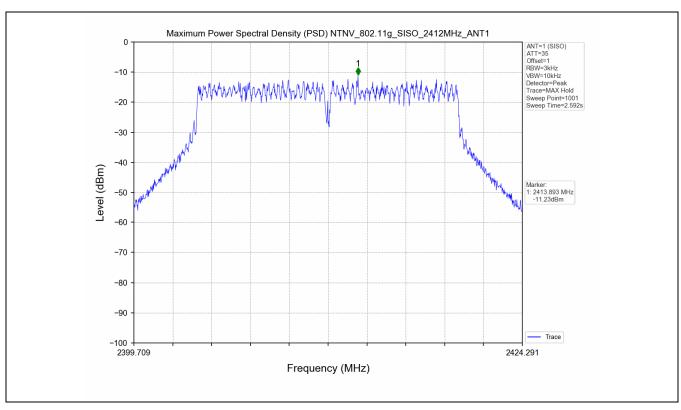
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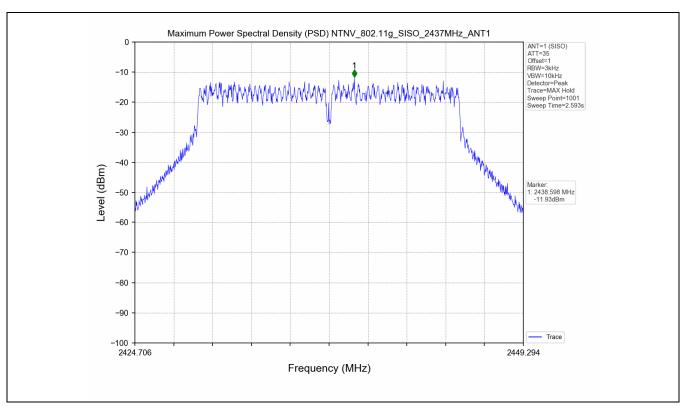
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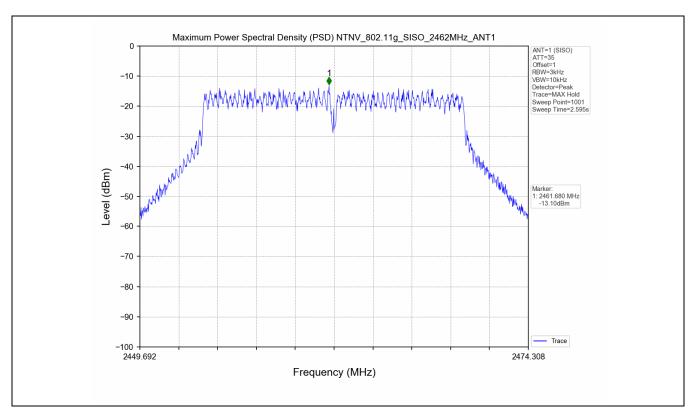
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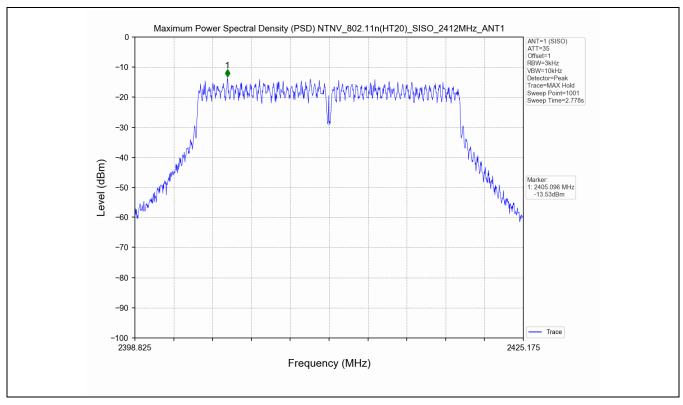
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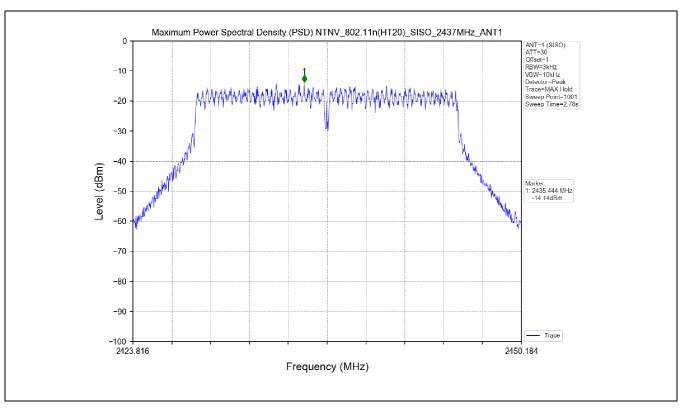
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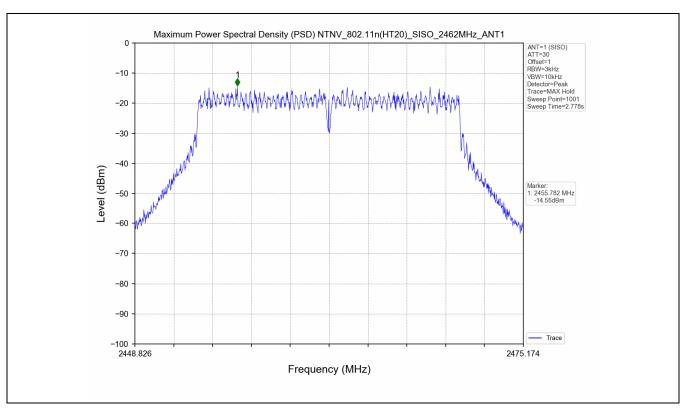
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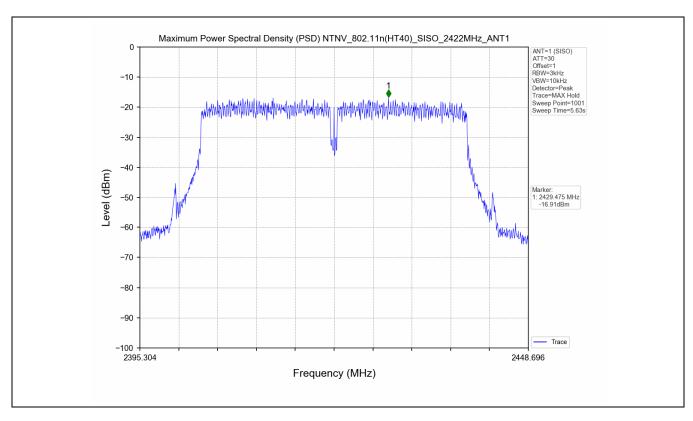
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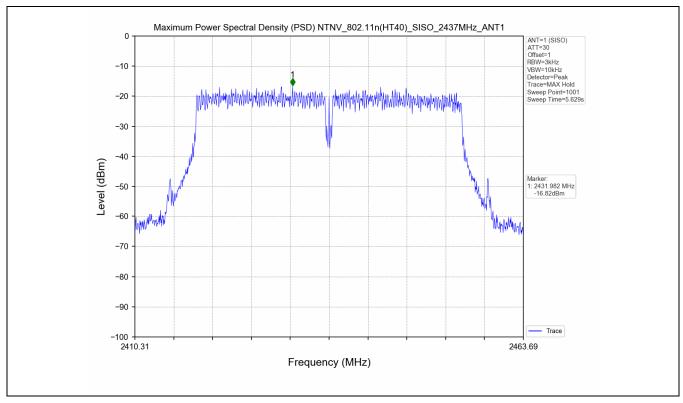
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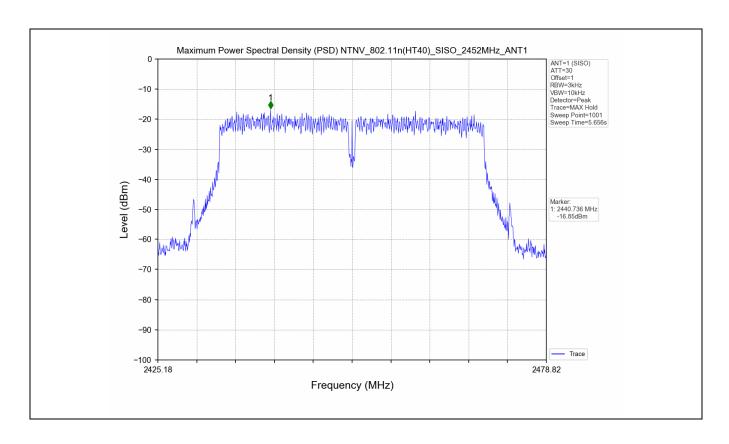
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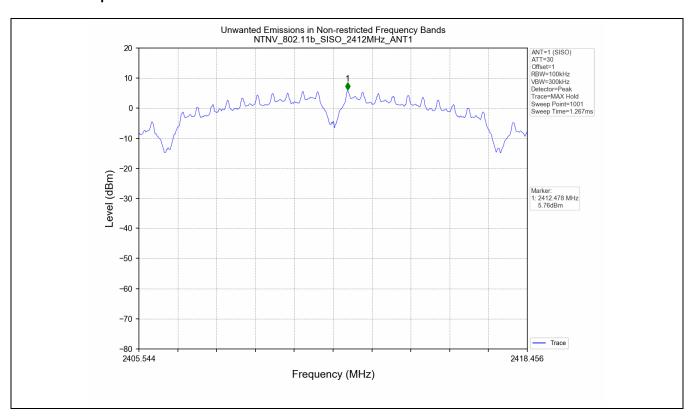
124 of 136 Page:

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

#### 5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2412	SISO	1	Refer to test graph	-24.24	PASS
802.11b	2437	SISO	1	Refer to test graph	-24.24	PASS
	2462	SISO	1	Refer to test graph	-24.24	PASS
	2412	SISO	1	Refer to test graph	-27.75	PASS
802.11g	2437	SISO	1	Refer to test graph	-27.75	PASS
	2462	SISO	1	Refer to test graph	-27.75	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-29.25	PASS
	2437	SISO	1	Refer to test graph	-29.25	PASS
	2462	SISO	1	Refer to test graph	-29.25	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-31.96	PASS
	2437	SISO	1	Refer to test graph	-31.96	PASS
	2452	SISO	1	Refer to test graph	-31.96	PASS

#### 5.2 Test Graph





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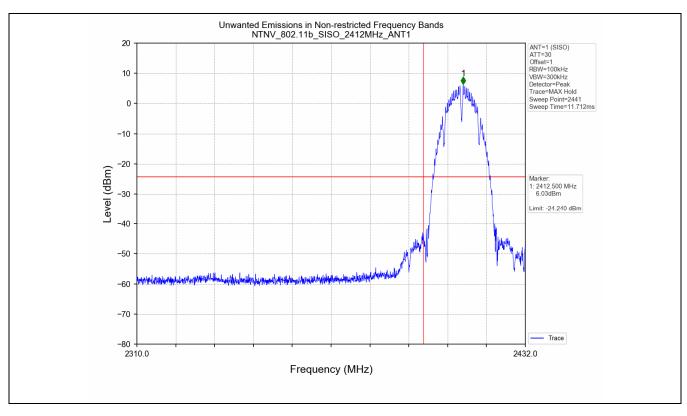
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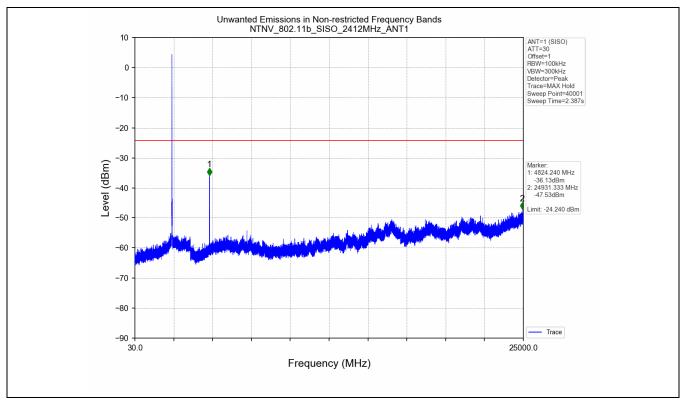
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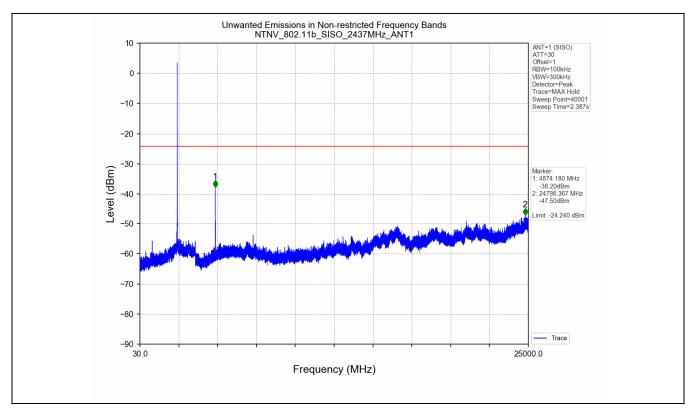
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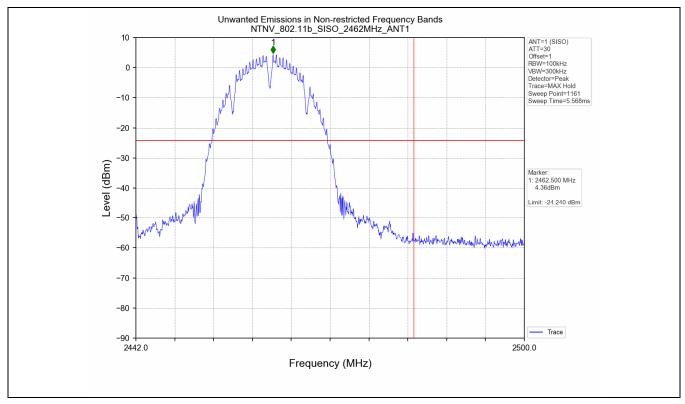
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126 of 136 Page:







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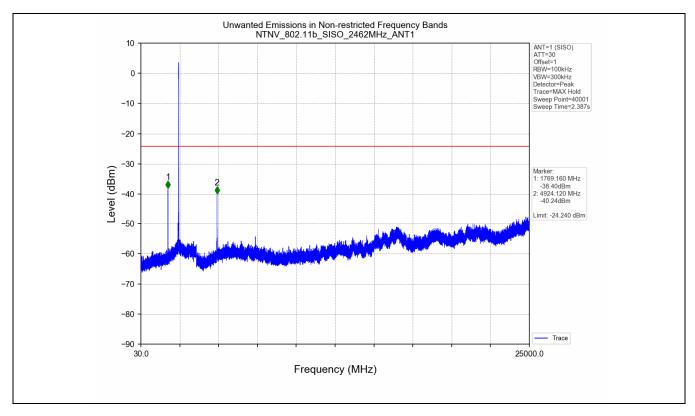
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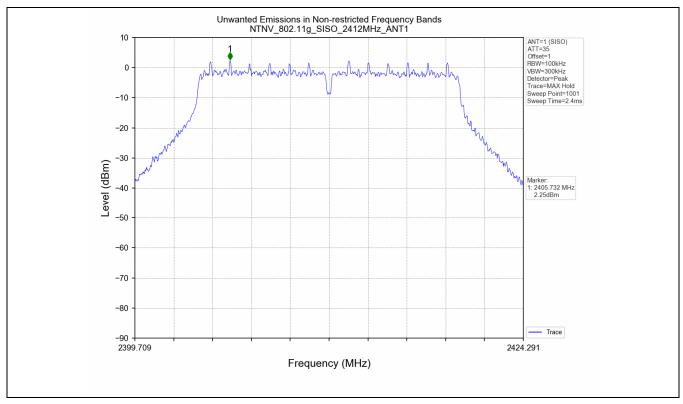
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127 of 136 Page:







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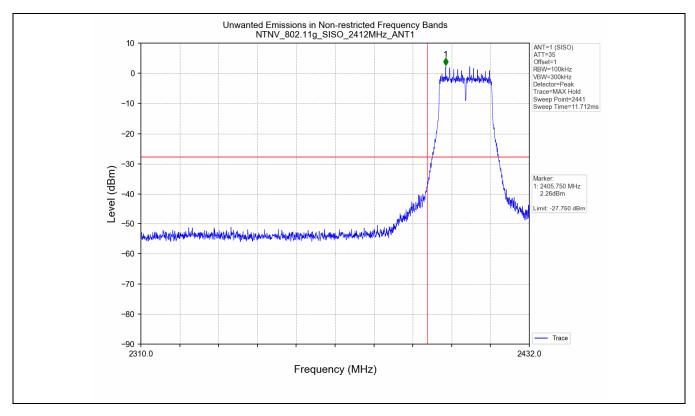
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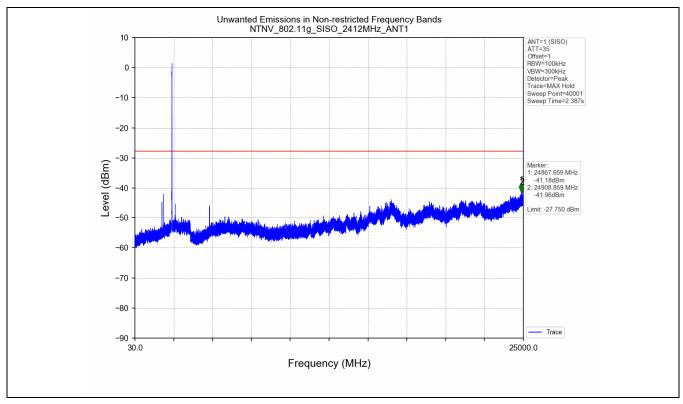
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128 of 136 Page:







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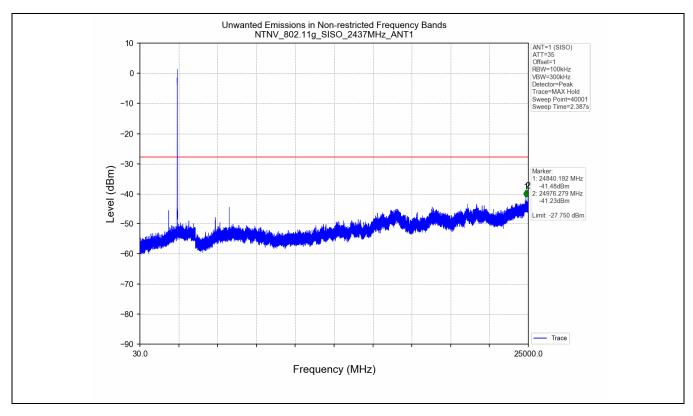
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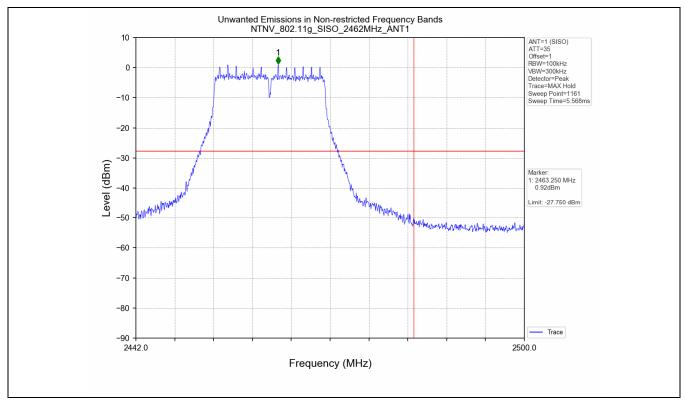
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129 of 136 Page:







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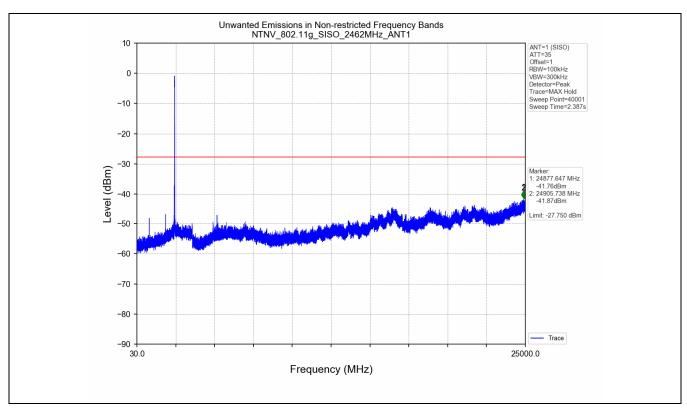
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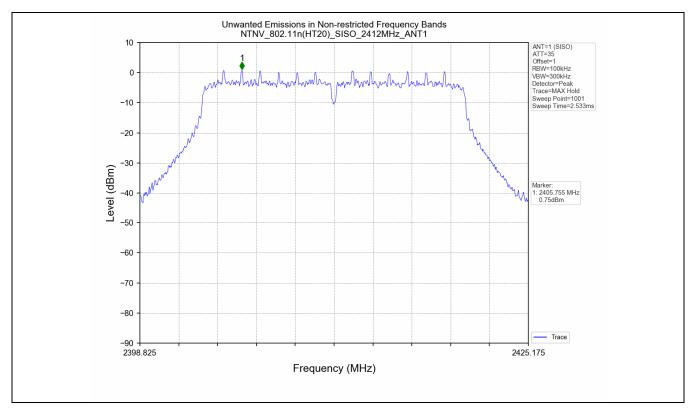
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130 of 136 Page:







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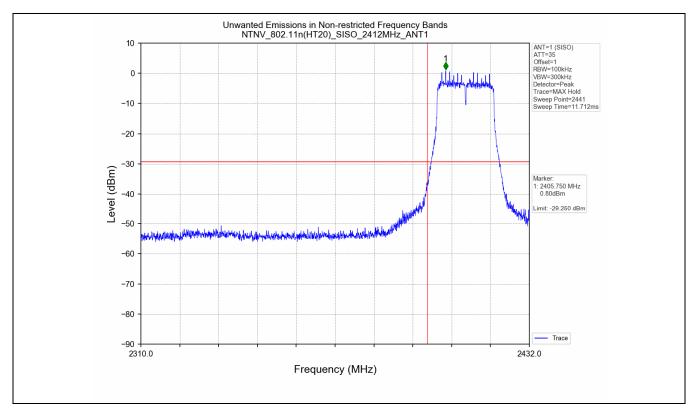
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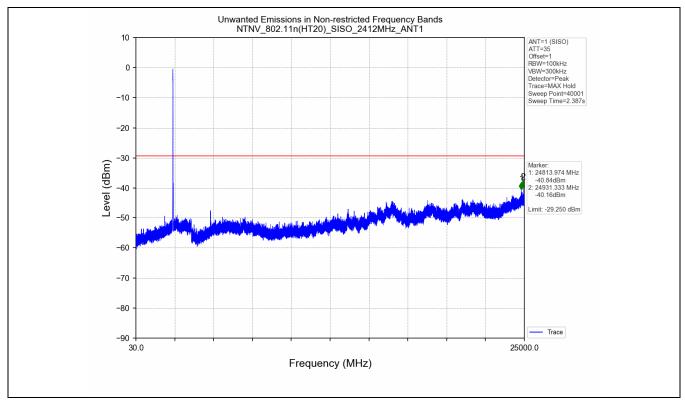
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131 of 136 Page:







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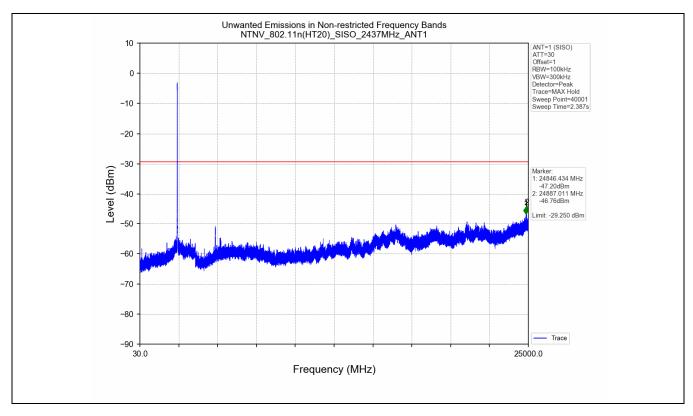
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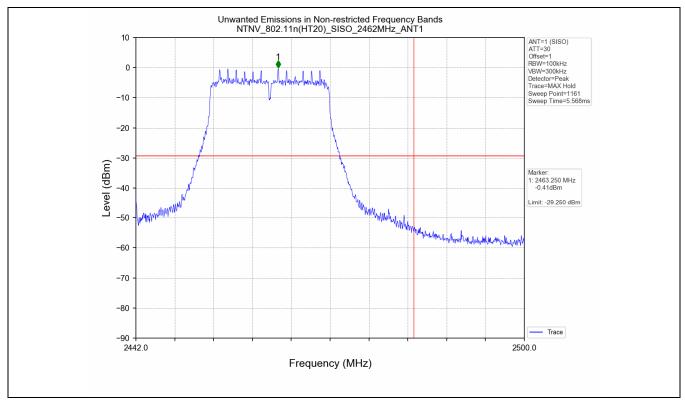
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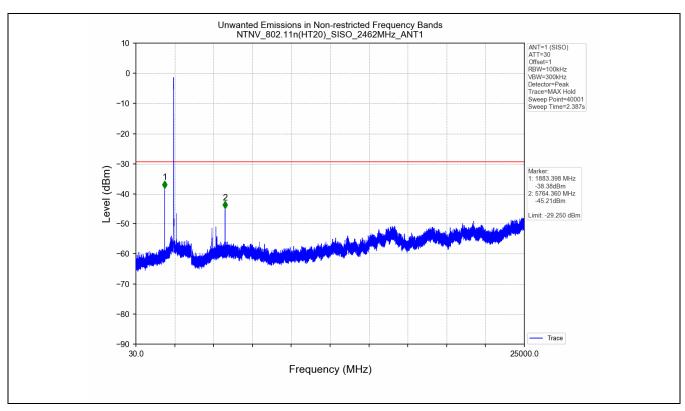
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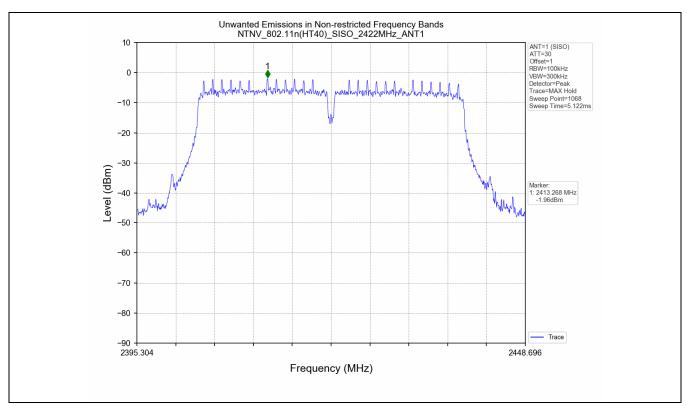
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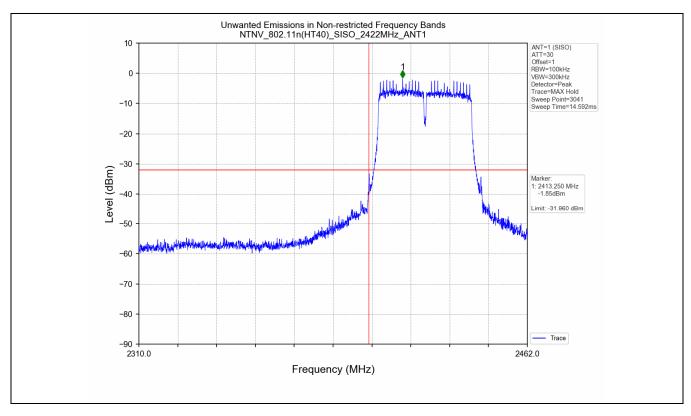
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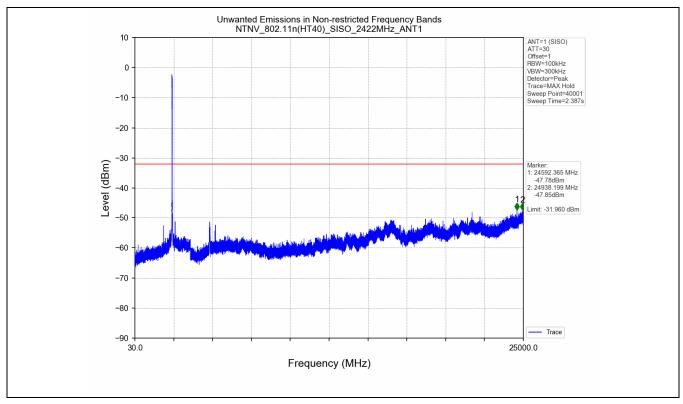
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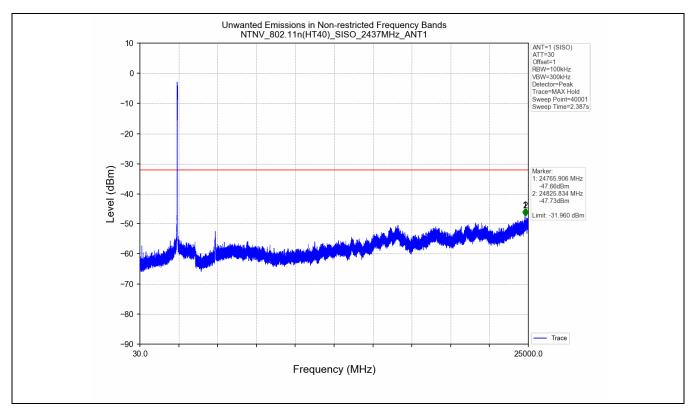
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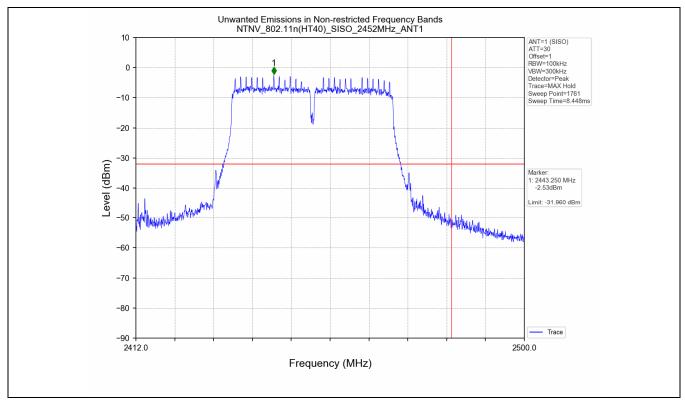
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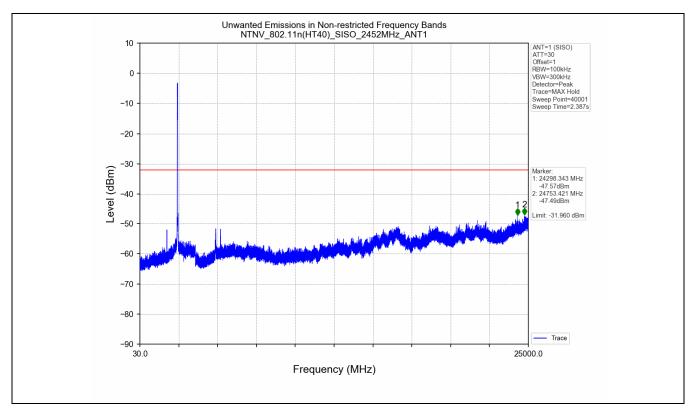
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136 of 136 Page:



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