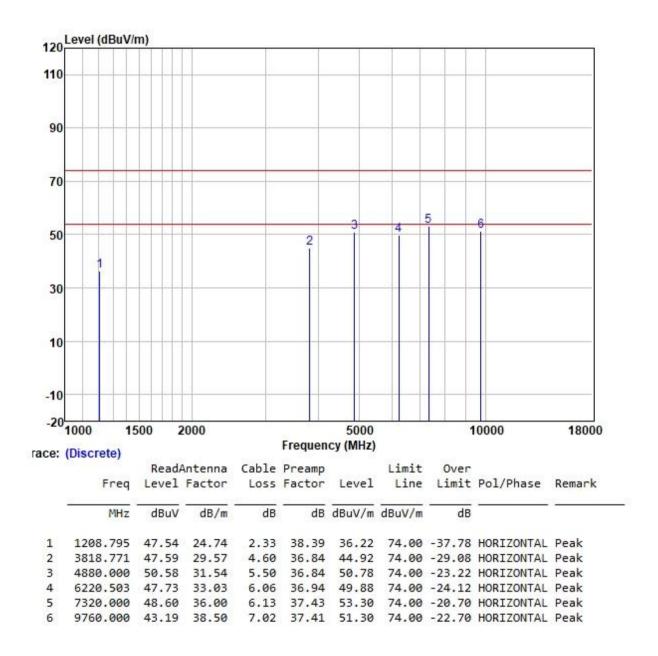


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle





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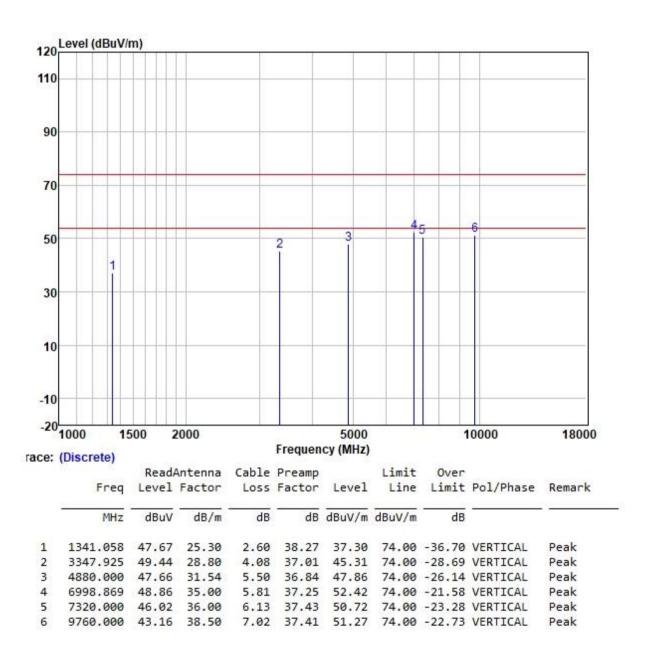
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:middle





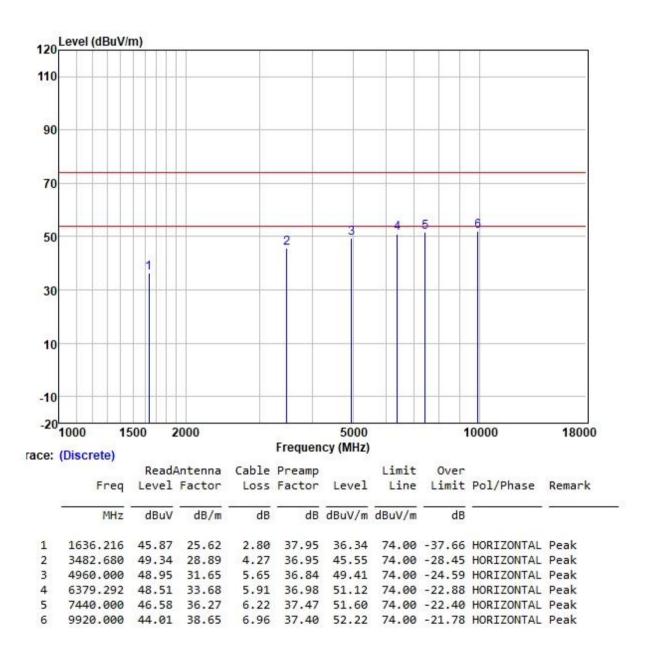
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High





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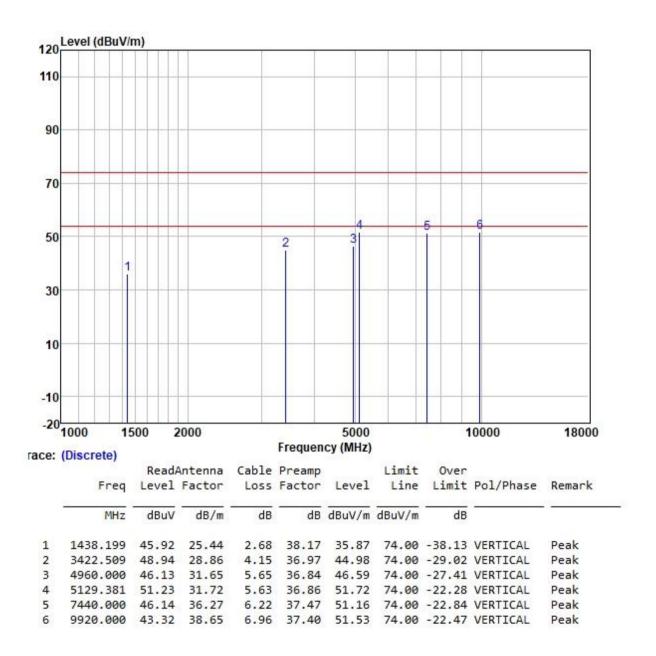
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High





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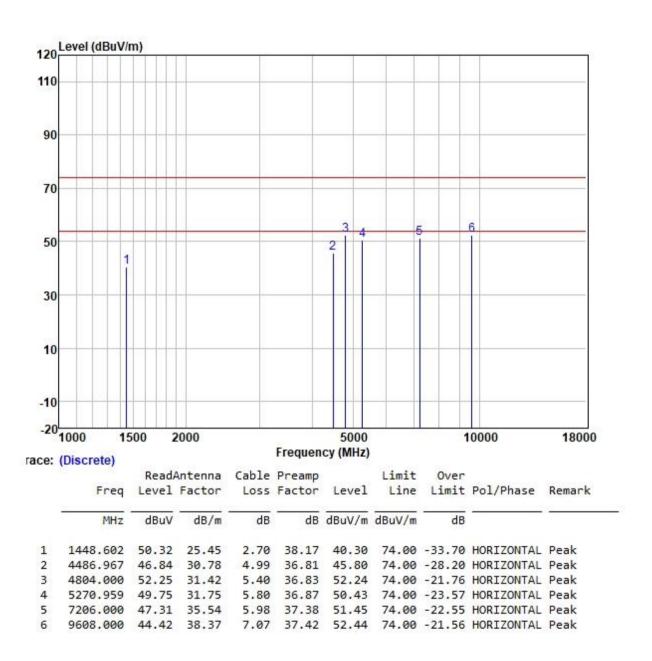


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500Kbps

Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; ; Channel:Low





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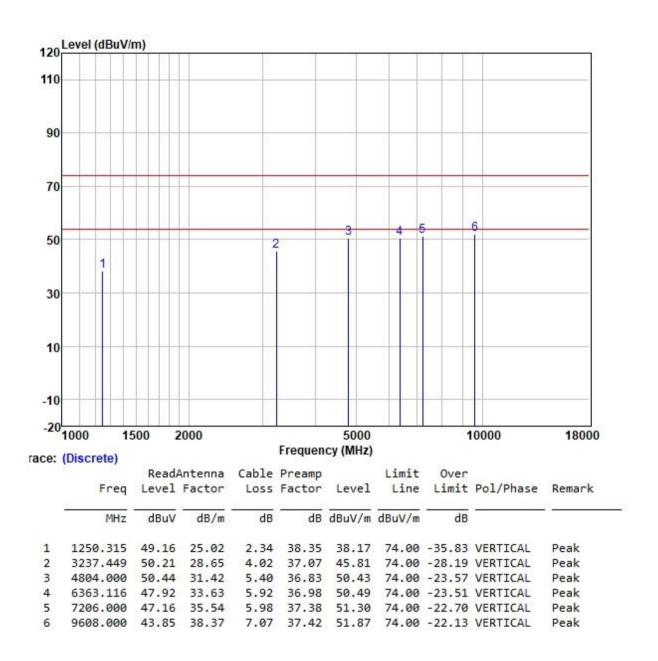
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; ; Channel:Low





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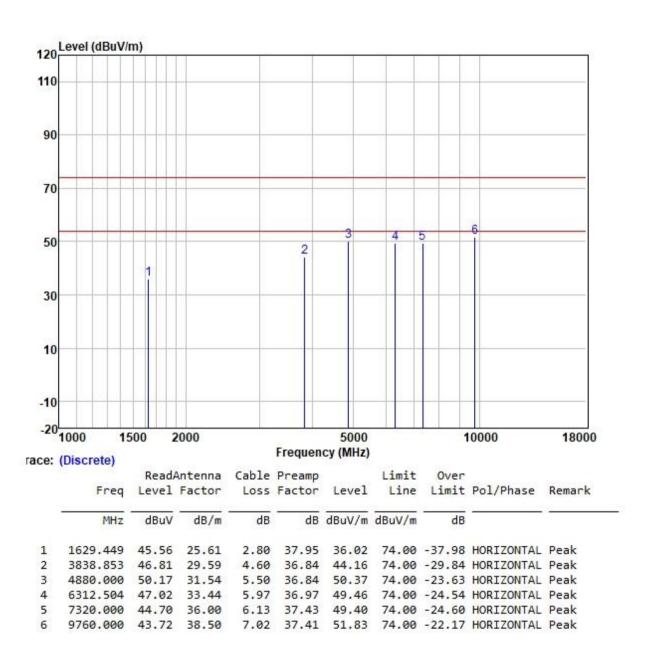
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle





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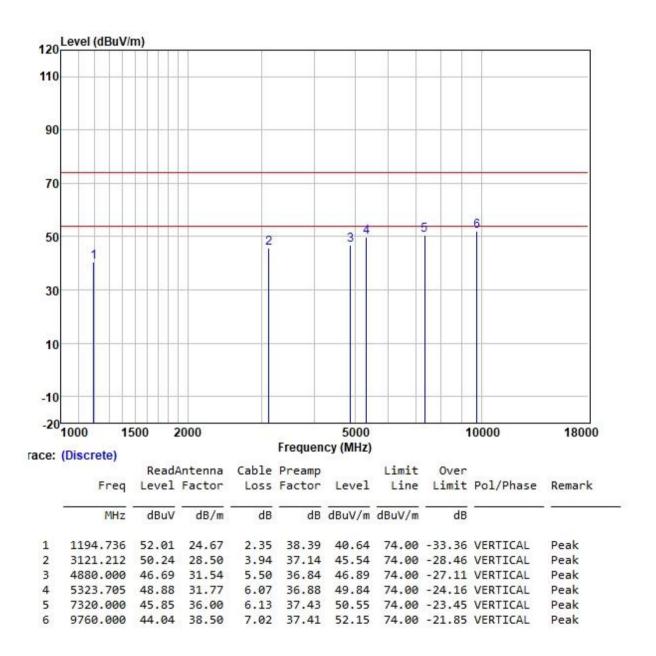
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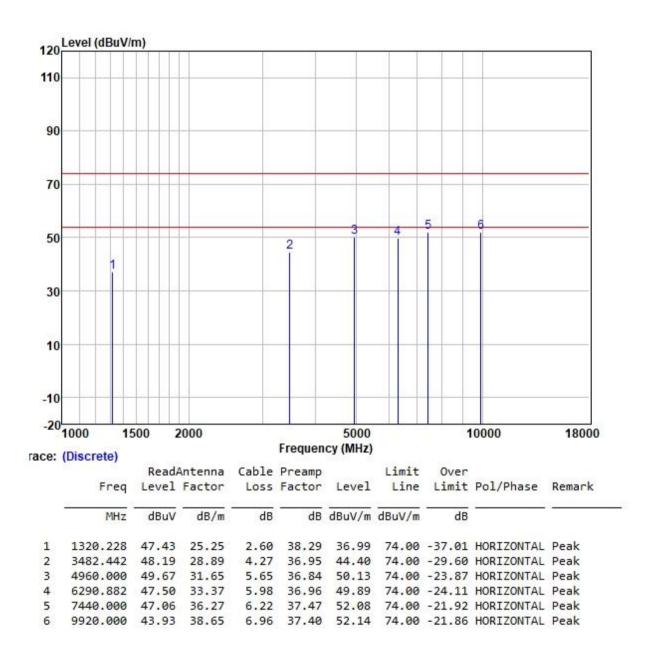
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; ; Channel:High





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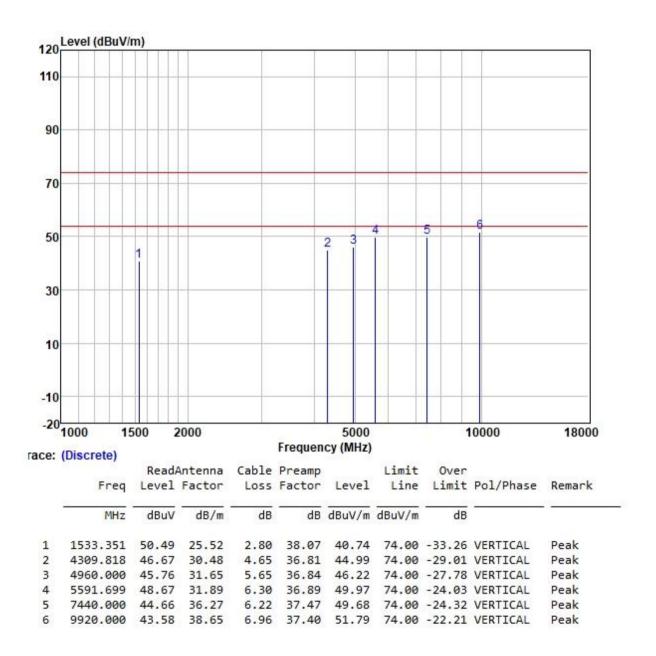
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; ; Channel:High





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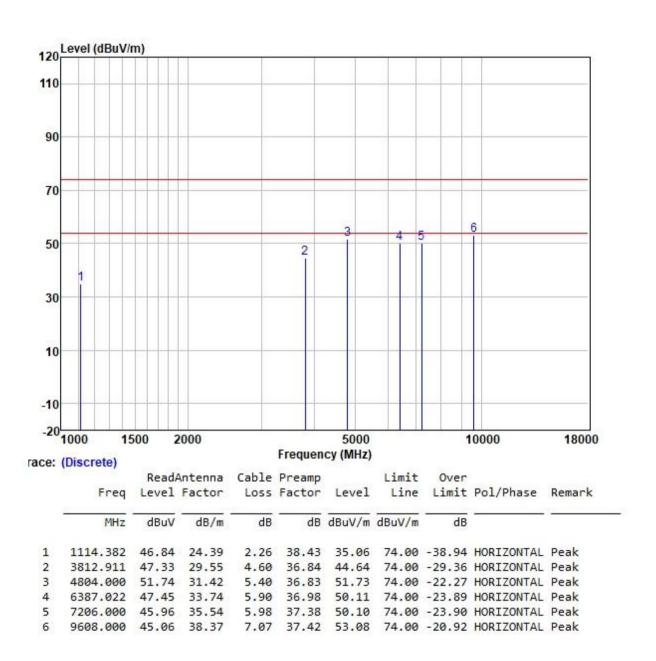


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125Kbps

Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; ; Channel:Low





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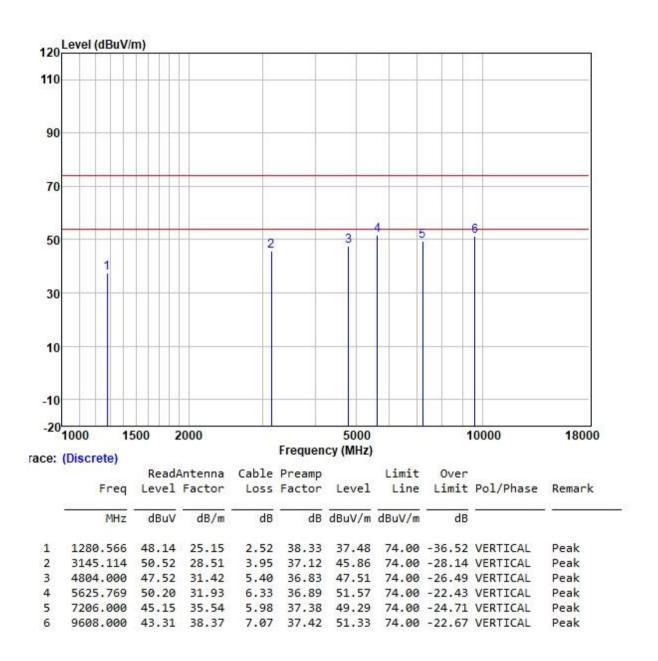
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Test Mode: 03; Polarity: Vertical; Modulation: GFSK; ; Channel: Low





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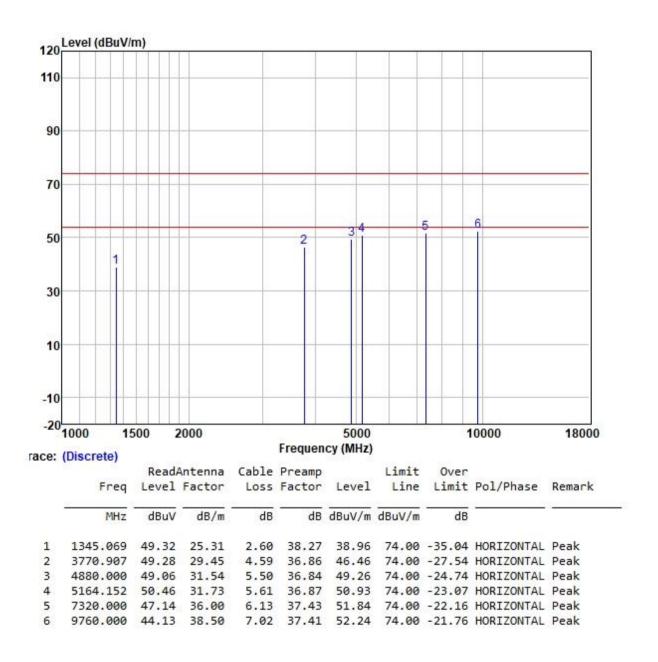
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle





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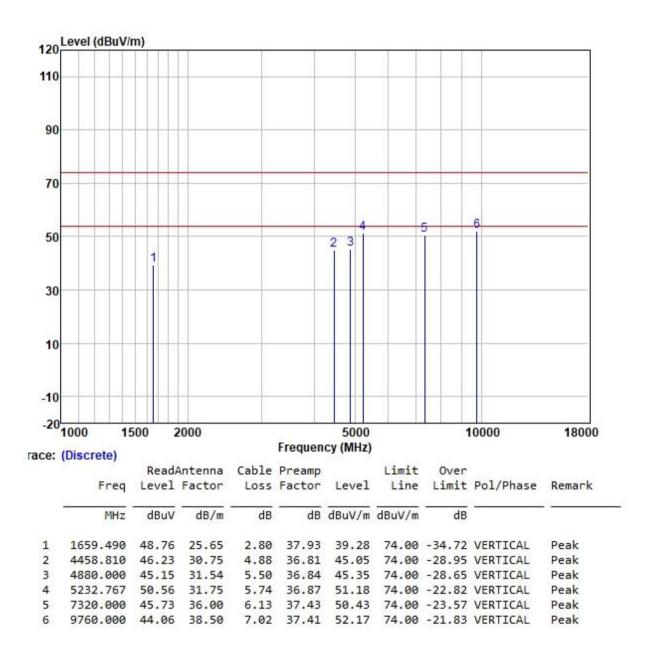
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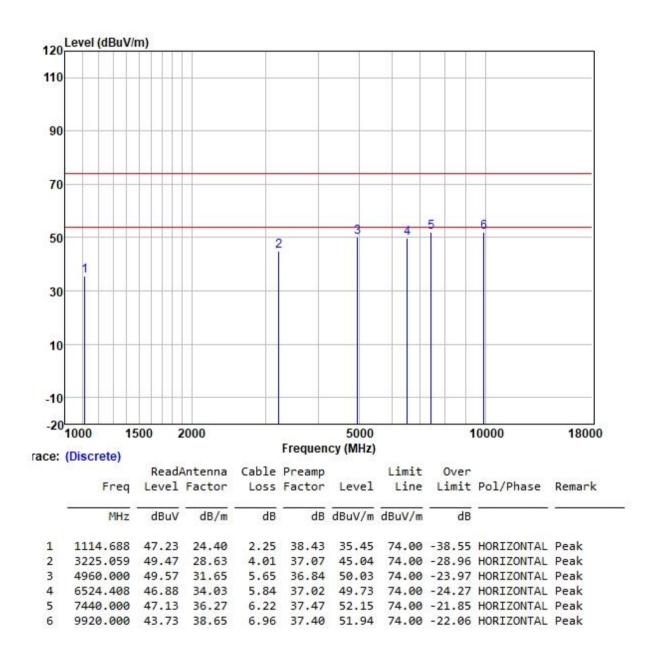
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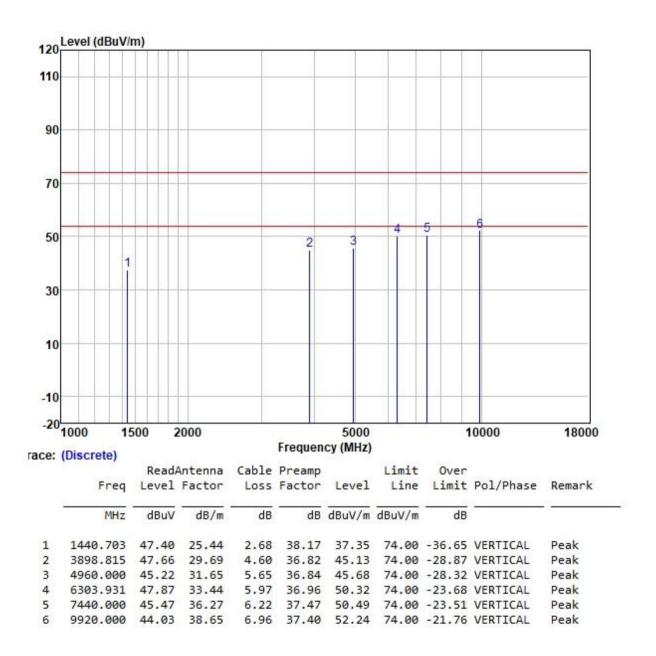
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8 Test Setup Photo

Refer to Appendix -SetupPhotos for GZCR2203000256AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2203000256AT



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10 Appendix

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)
BLE 1Mbps	2402	SISO	1	0.392	0.625	62.72	2.03
			2	0.392	0.625	62.72	2.03
	2440	SISO	1	0.392	0.625	62.72	2.03
			2	0.393	0.626	62.78	2.02
	0.400	SISO	1	0.393	0.626	62.78	2.02
	2480		2	0.392	0.625	62.72	2.03
	2402	SISO	1	0.206	0.625	32.96	4.82
			2	0.207	0.625	33.12	4.80
BLE 2Mbps	2440	SISO	1	0.207	0.625	33.12	4.80
BLE ZIVIDPS	2440		2	0.207	0.626	33.07	4.81
	2480	SISO	1	0.207	0.626	33.07	4.81
			2	0.206	0.625	32.96	4.82
	2402	SISO	1	1.057	1.842	57.38	2.41
			2	1.076	1.876	57.36	2.41
BLE Coded S2	2440	SISO	1	1.057	1.841	57.41	2.41
500Kbps			2	1.076	1.876	57.36	2.41
	2480	SISO	1	1.059	1.843	57.46	2.41
			2	1.057	1.841	57.41	2.41
BLE Coded S8 125Kbps	2402	SISO	1	3.104	3.748	82.82	0.82
			2	3.104	3.751	82.75	0.82
	2440	SISO	1	3.104	3.750	82.77	0.82
			2	3.104	3.752	82.73	0.82
	2480	SISO	1	3.104	3.752	82.73	0.82
			2	3.103	3.750	82.75	0.82

1.2 Test Graph



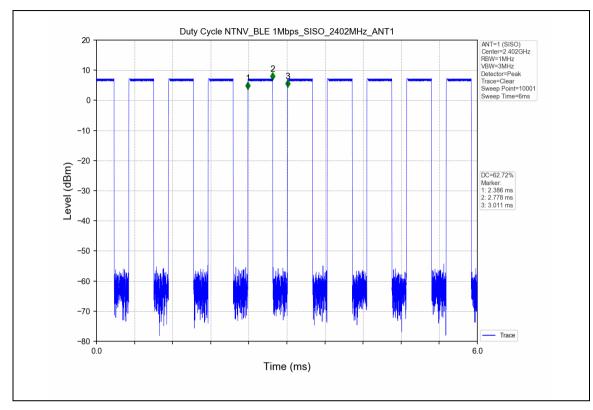
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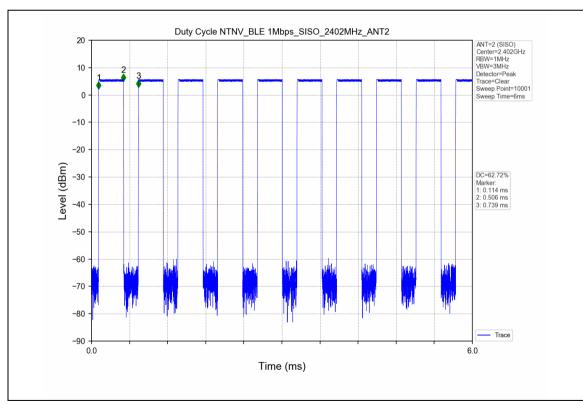
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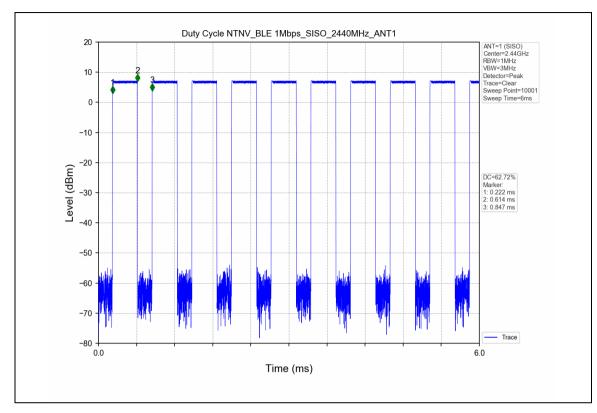
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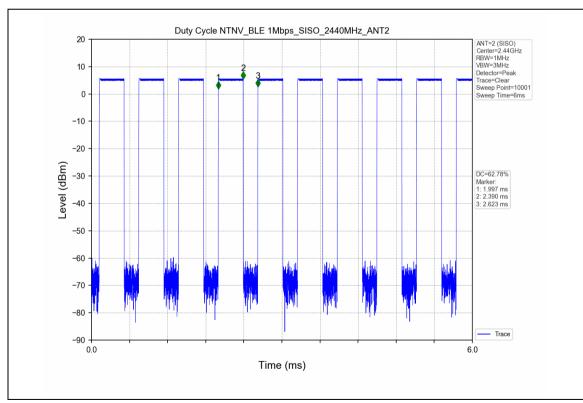
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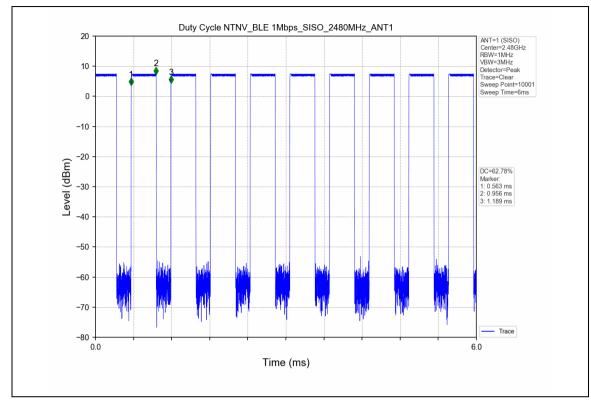
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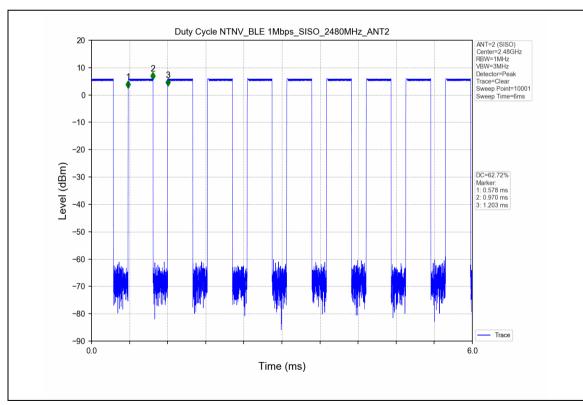
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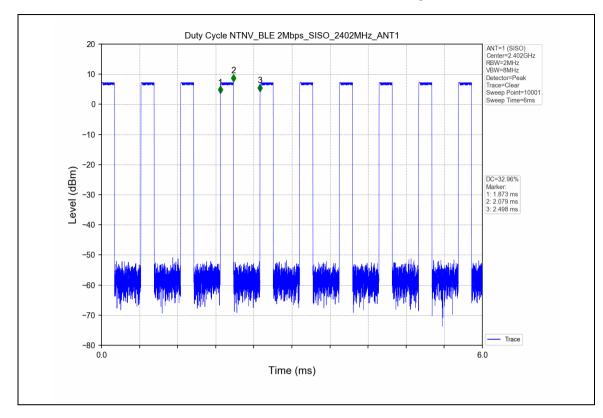
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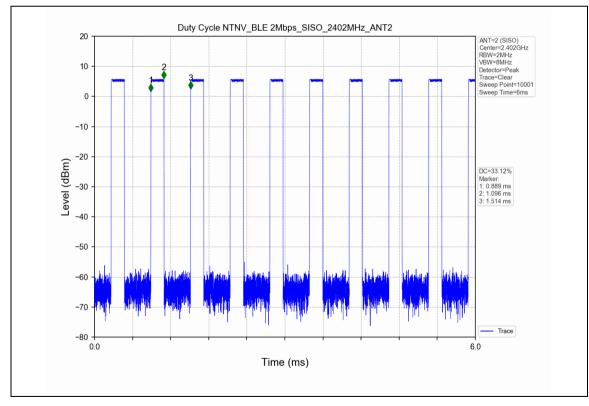
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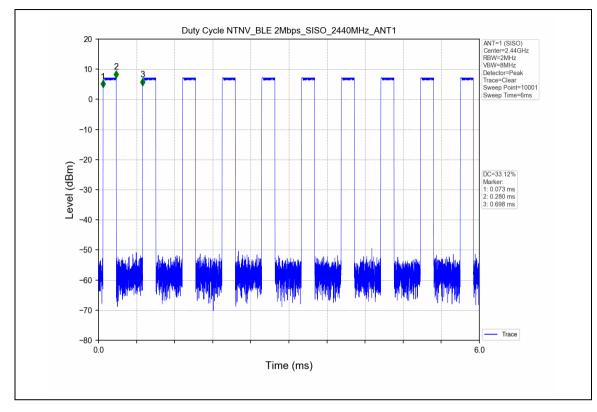
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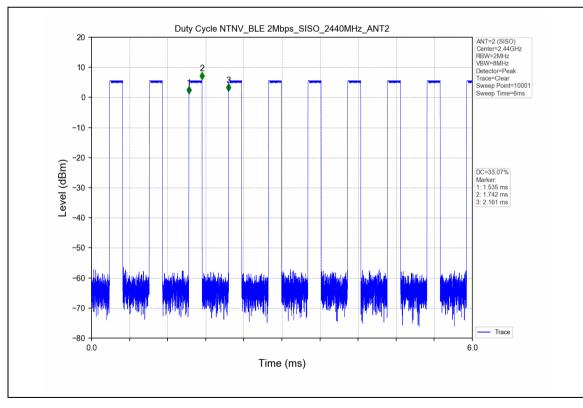
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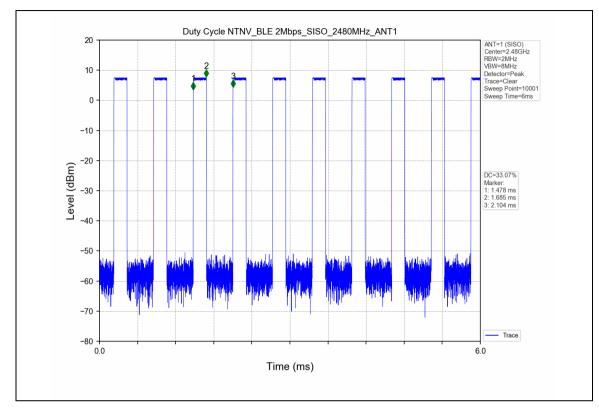
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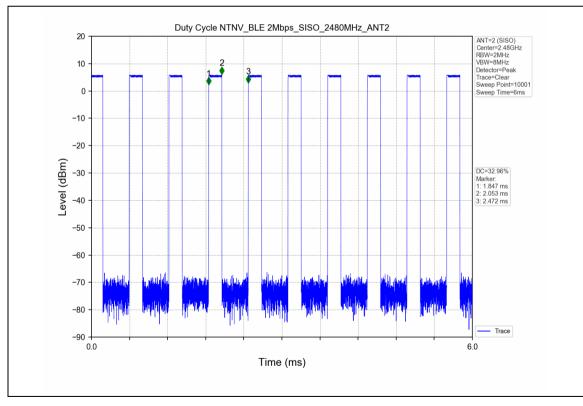
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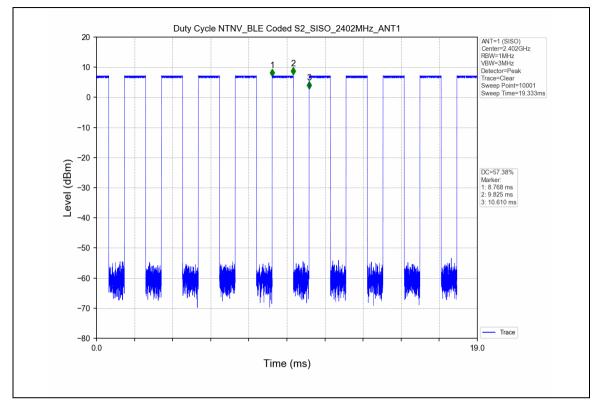
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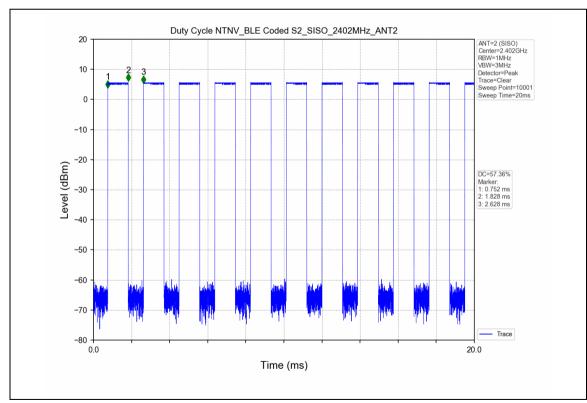
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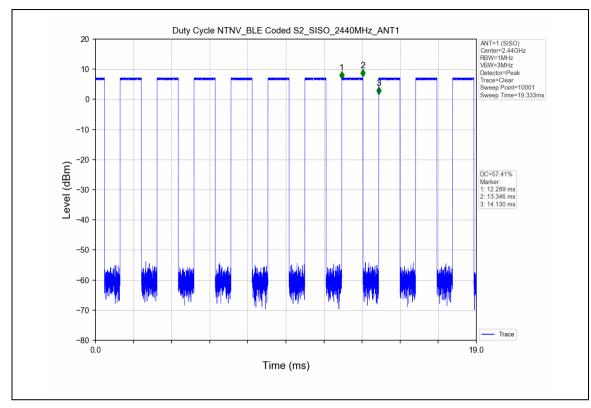
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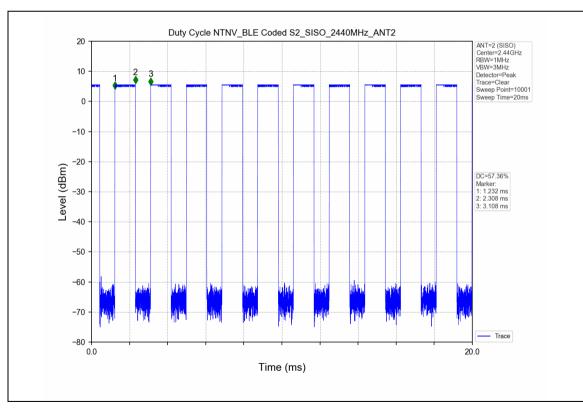
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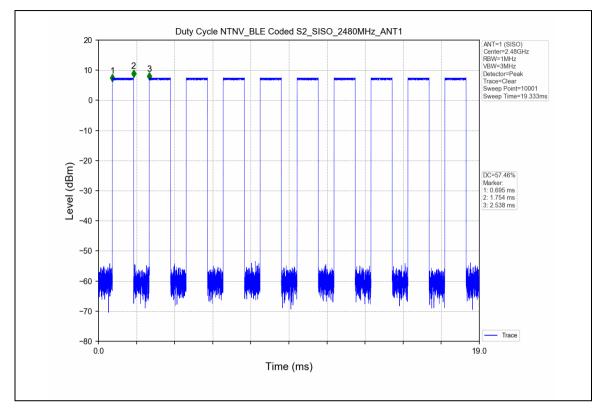
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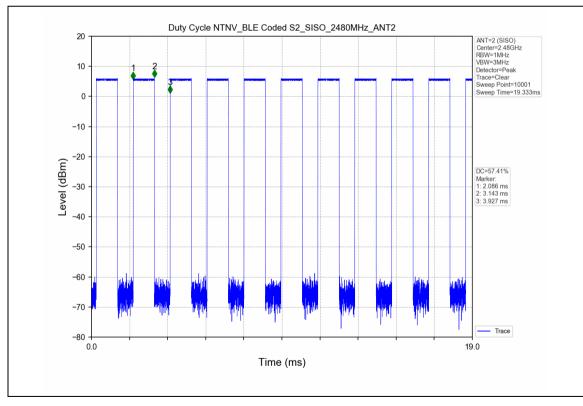
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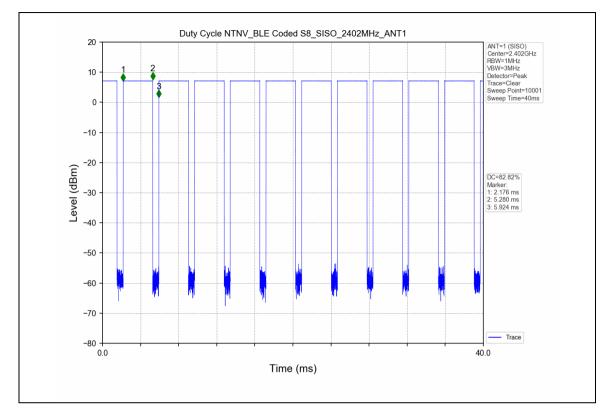
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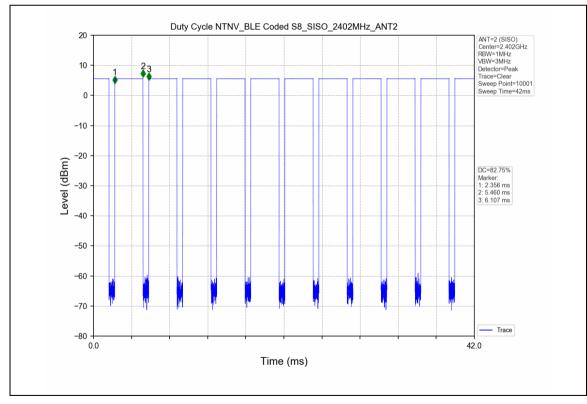
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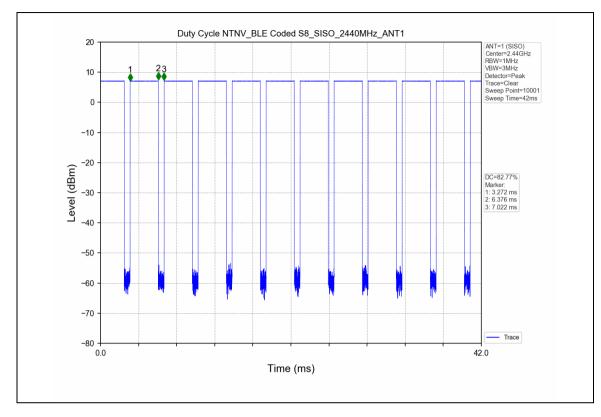
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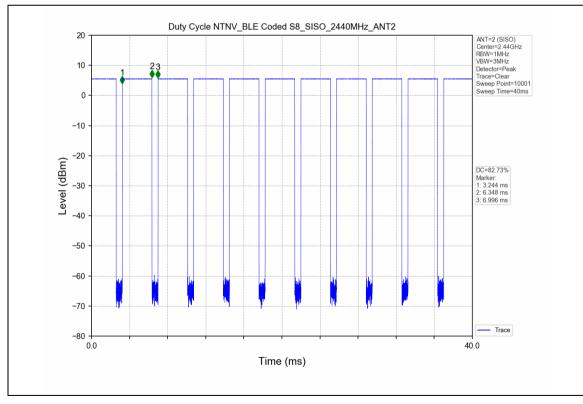
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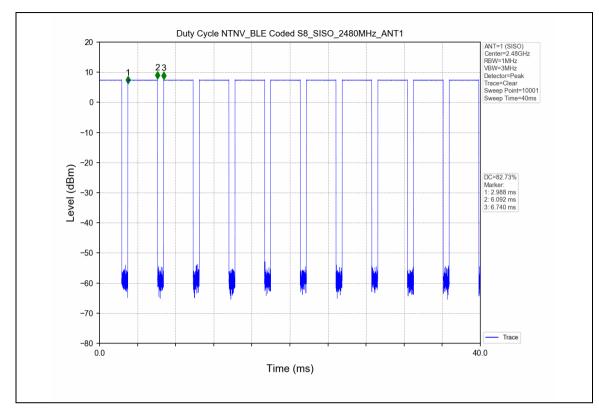
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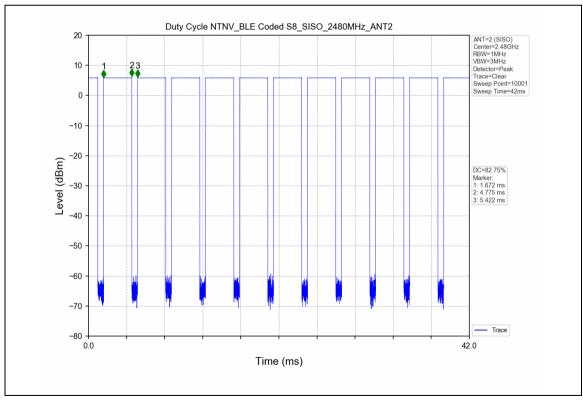
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2. Minimum 6dB Bandwidth



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2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	veraict
BLE 1Mbps	2402	SISO	1	0.701	PASS
			2	0.700	PASS
	2440	SISO	1	0.684	PASS
			2	0.699	PASS
	2480	SISO	1	0.694	PASS
			2	0.699	PASS
BLE 2Mbps	2402	SISO	1	1.141	PASS
			2	1.135	PASS
	2440	SISO	1	1.131	PASS
			2	1.134	PASS
	2490	SISO	1	1.137	PASS
	2480		2	1.137	PASS
	2402	SISO	1	0.689	PASS
			2	0.706	PASS
BLE Coded S2	2440	SISO	1	0.699	PASS
500Kbps			2	0.695	PASS
	2480	SISO	1	0.700	PASS
			2	0.704	PASS
BLE Coded S8 125Kbps	2402	SISO	1	0.611	PASS
			2	0.609	PASS
	2440	SISO	1	0.608	PASS
			2	0.609	PASS
	2480	SISO	1	0.610	PASS
			2	0.607	PASS

			I			
Test Mode	Frequency	TX Type	ANT No.	99% Occupied Bandwidth		
rest Mode	(MHz)			Test Result (MHz)		
BLE 1Mbps	2402	SISO	1	1.051	Only for Report Use	
			2	1.052	Only for Report Use	
	2440	SISO	1	1.053	Only for Report Use	
			2	1.052	Only for Report Use	
	2480	SISO	1	1.055	Only for Report Use	
			2	1.055	Only for Report Use	
BLE 2Mbps	2402	SISO	1	2.066	Only for Report Use	
			2	2.070	Only for Report Use	
	2440	SISO	1	2.067	Only for Report Use	
			2	2.065	Only for Report Use	
	2480	SISO	1	2.074	Only for Report Use	
			2	2.072	Only for Report Use	



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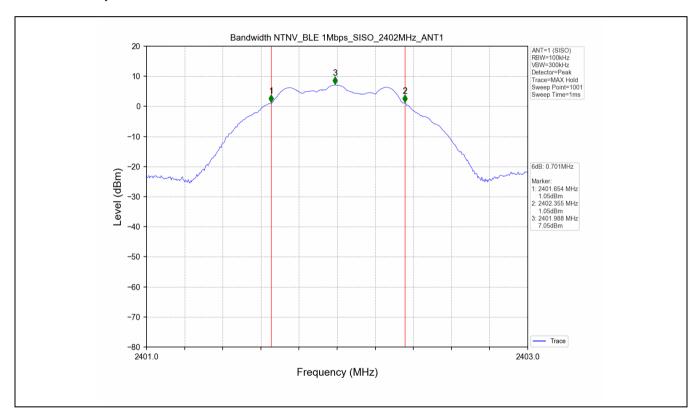


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BLE Coded S2 500Kbps	2402	SISO	1	1.033	Only for Report Use	
			2	1.035	Only for Report Use	
	2440	SISO	1	1.035	Only for Report Use	
			2	1.036	Only for Report Use	
	2480	SISO	1	1.037	Only for Report Use	
			2	1.039	Only for Report Use	
BLE Coded S8 125Kbps	2402	SISO	1	1.069	Only for Report Use	
			2	1.067	Only for Report Use	
	2440	SISO	1	1.074	Only for Report Use	
			2	1.073	Only for Report Use	
	2480	SISO	1	1.078	Only for Report Use	
			2	1.079	Only for Report Use	

2.2 Test Graph - 6dB Bandwidth



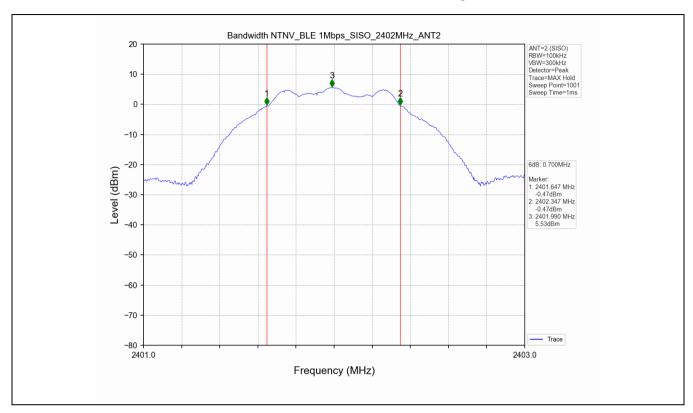


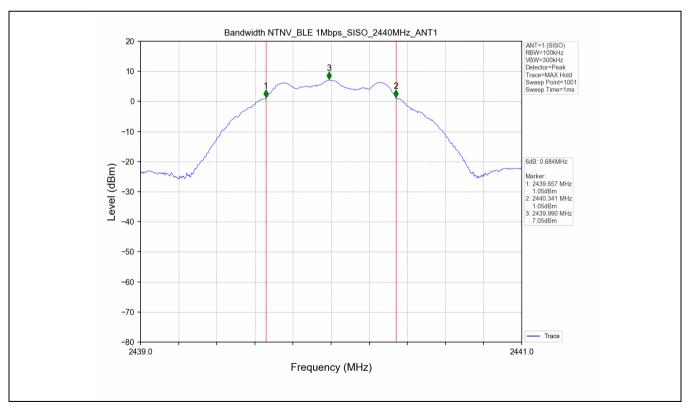
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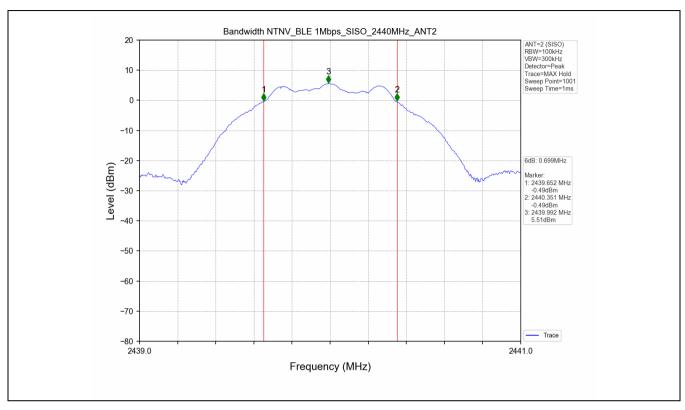


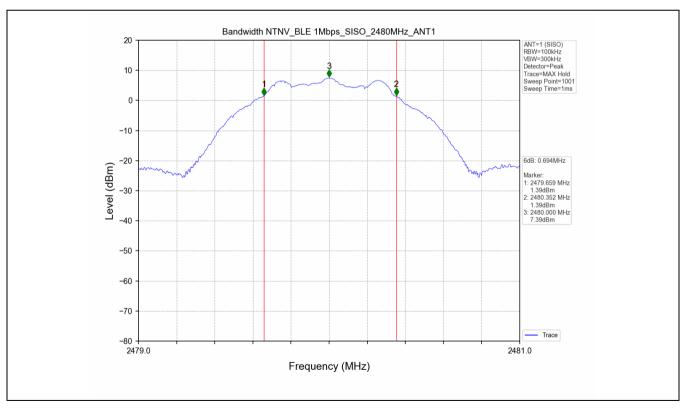
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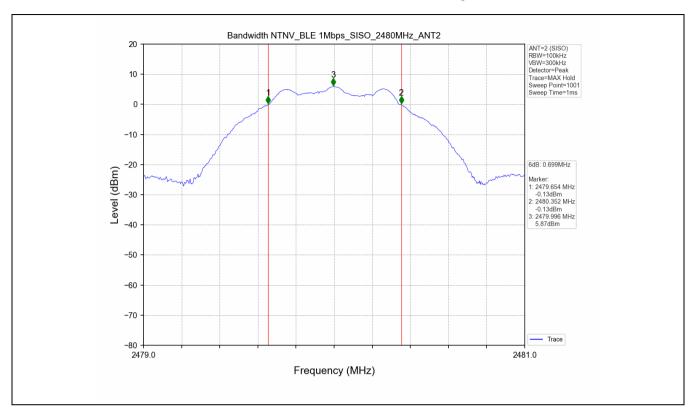


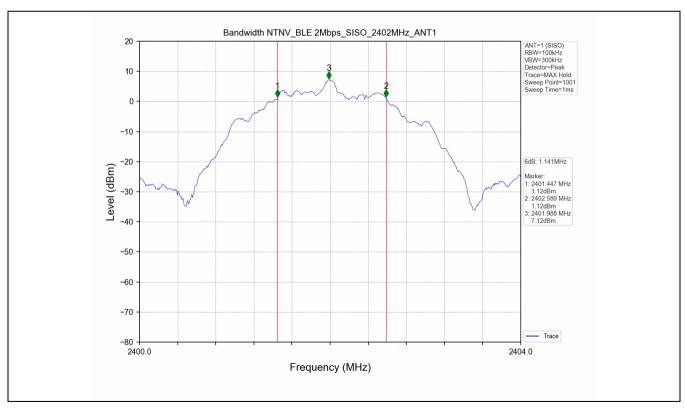
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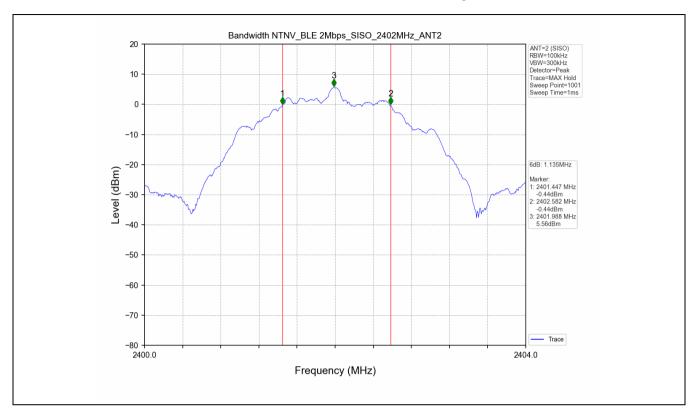


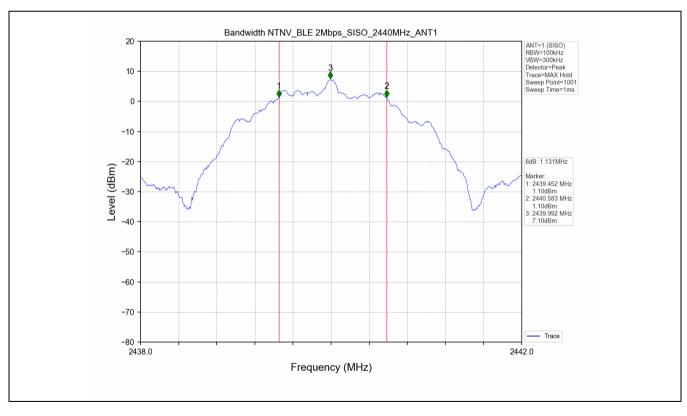
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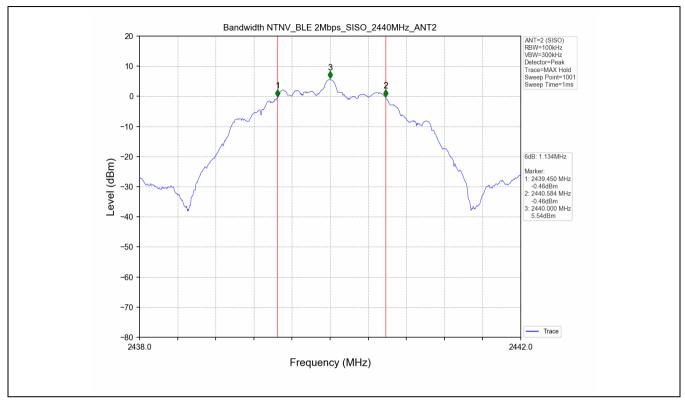
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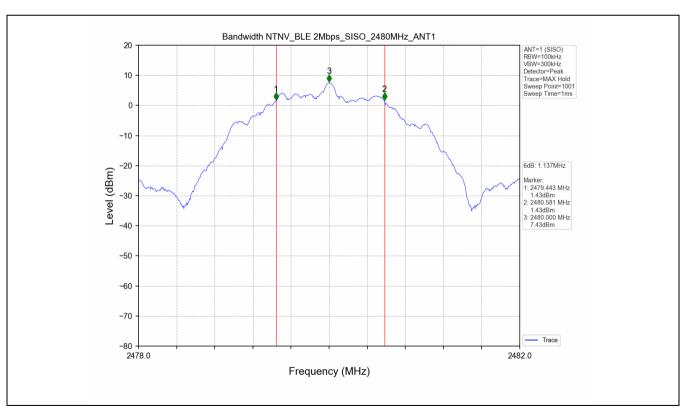
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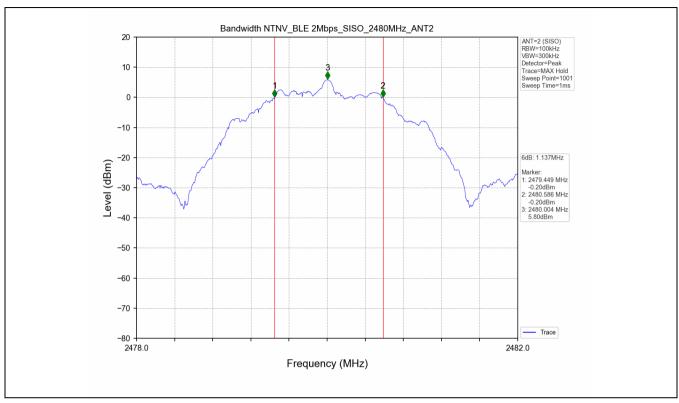
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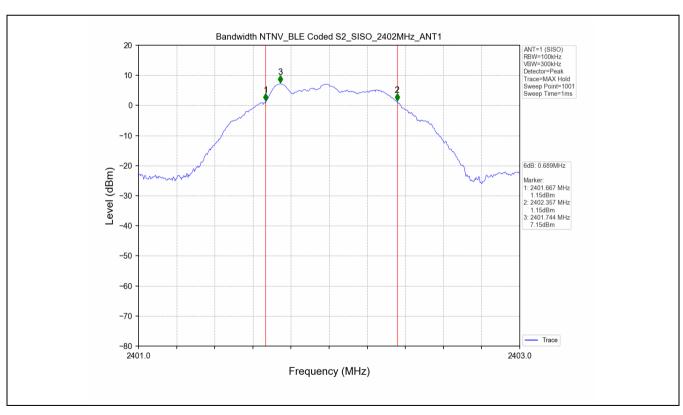
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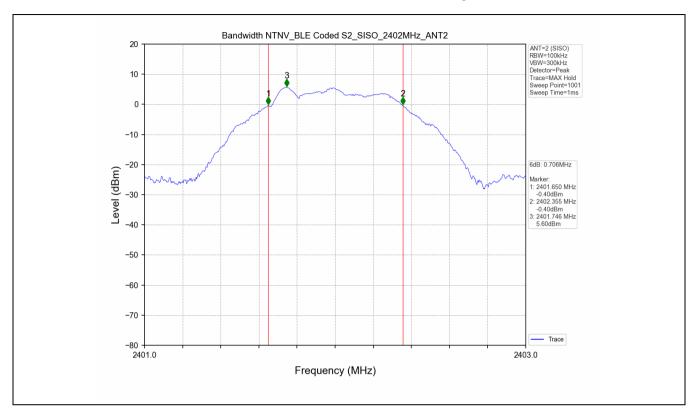
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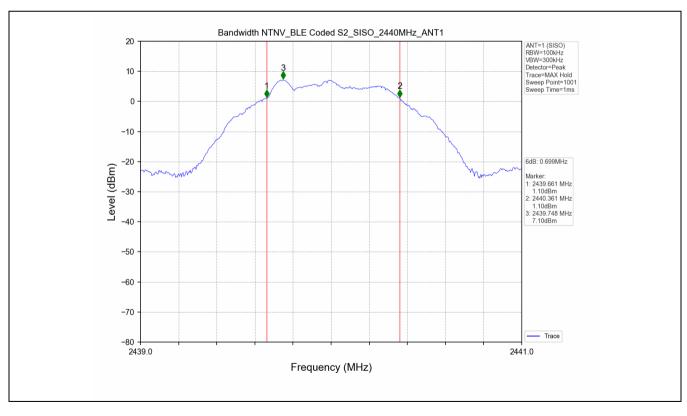
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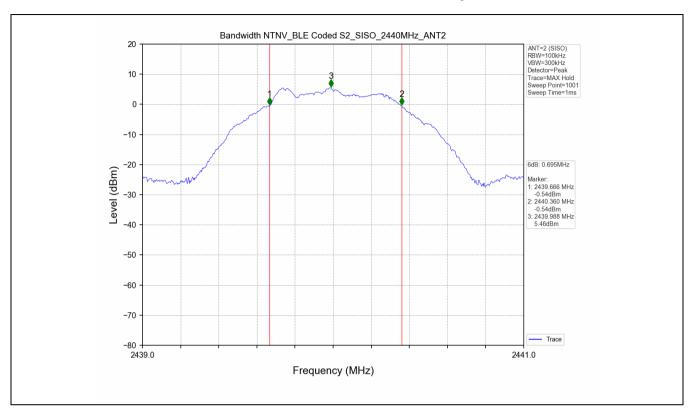
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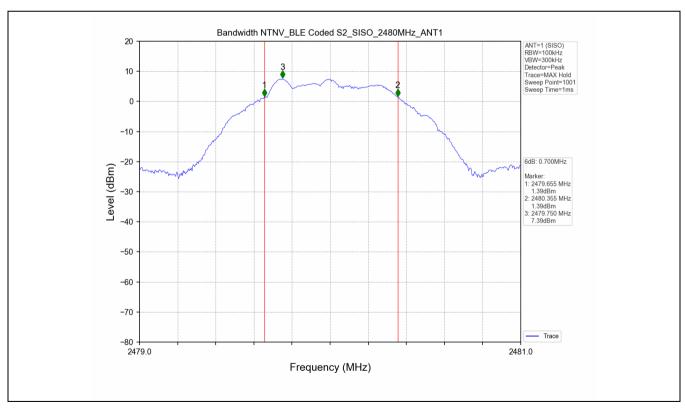
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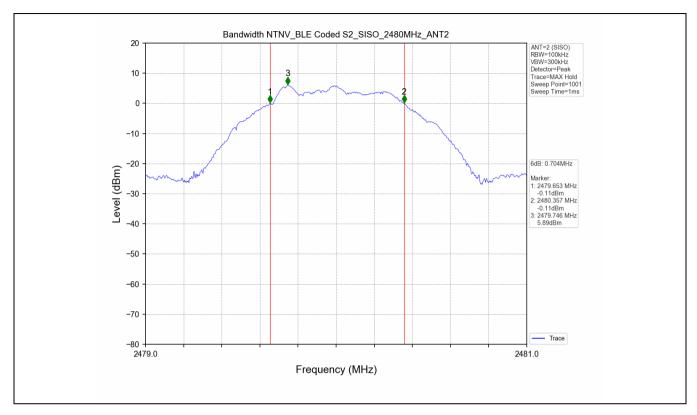
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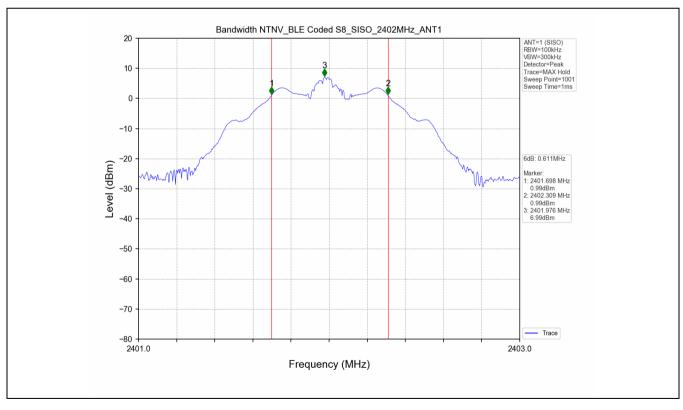
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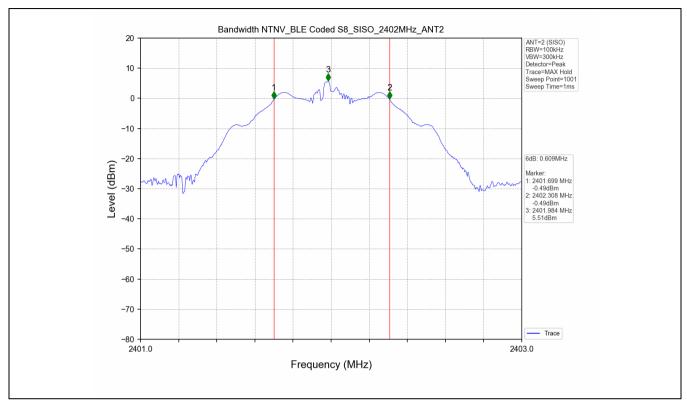
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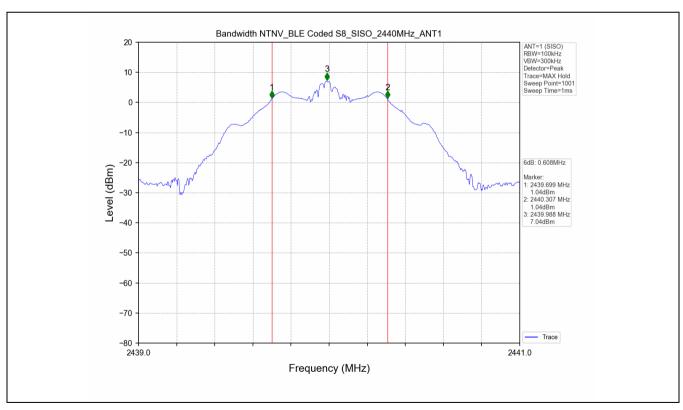
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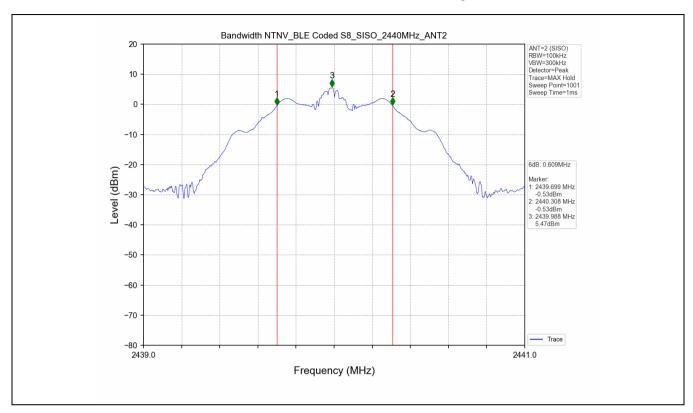
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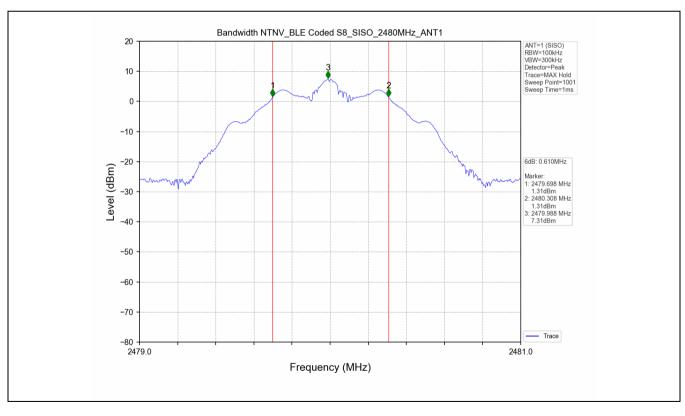
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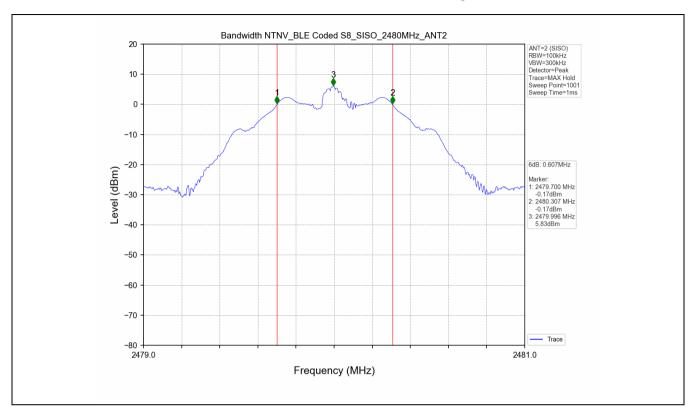
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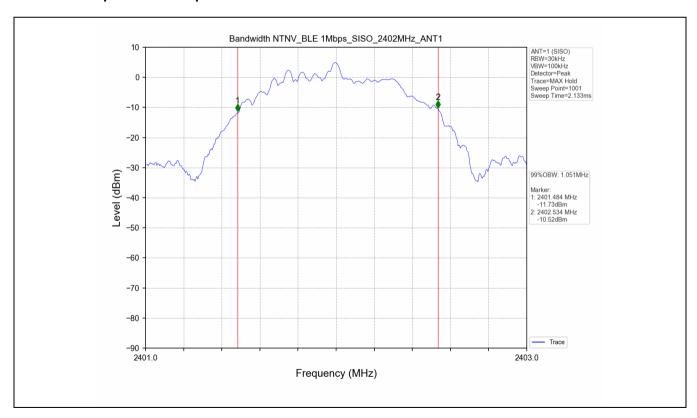


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2.3 Test Graph - 99% Occupied Bandwidth





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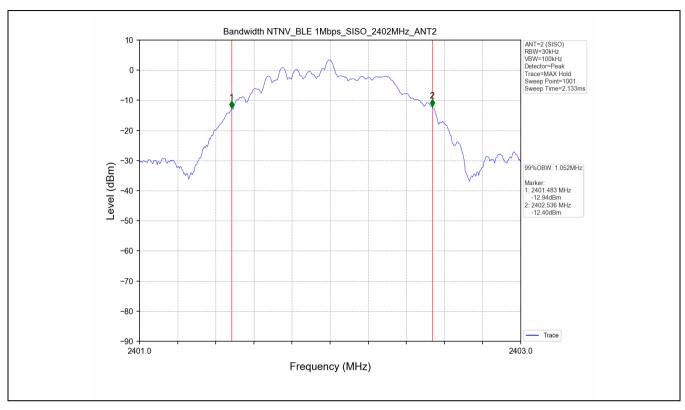
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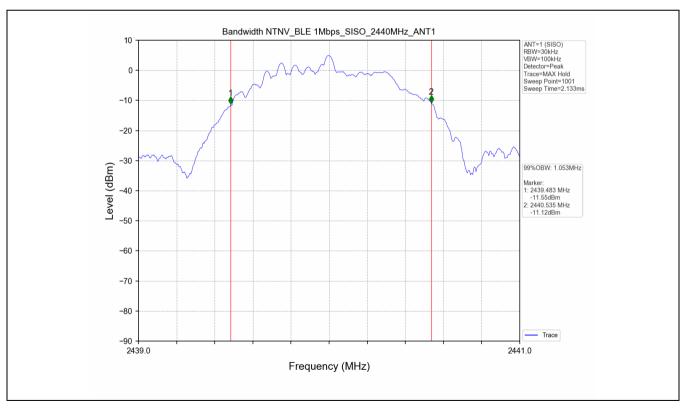
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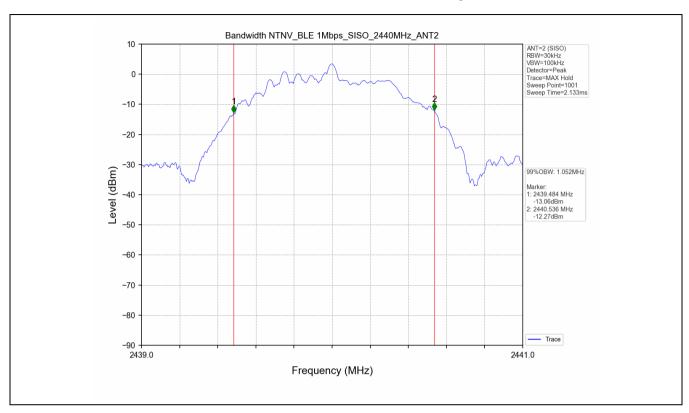
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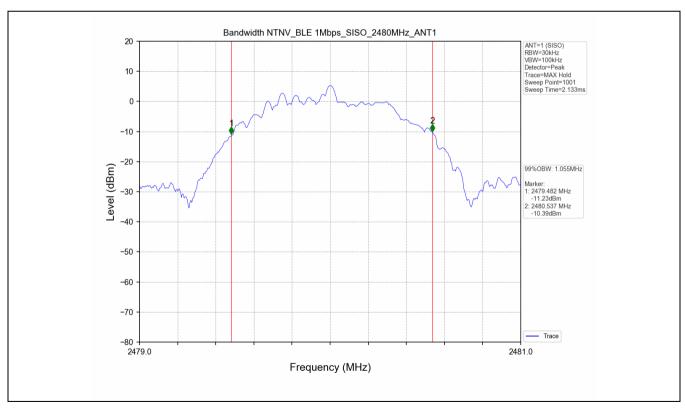
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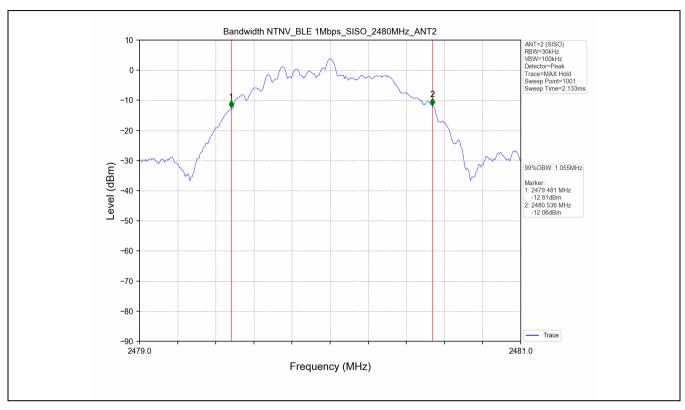


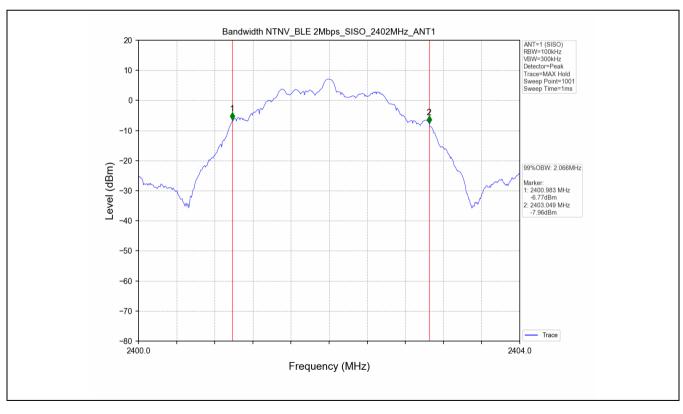
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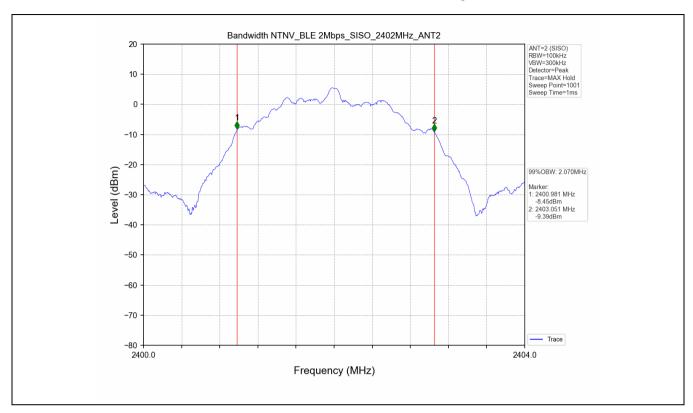


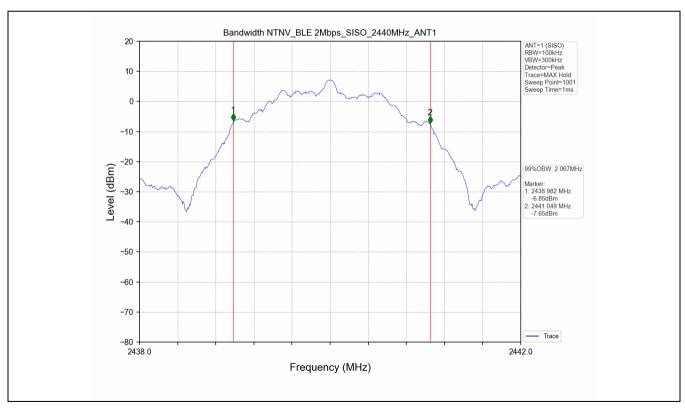
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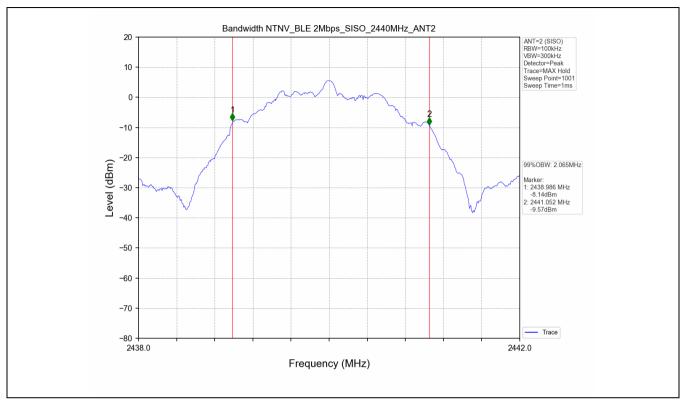


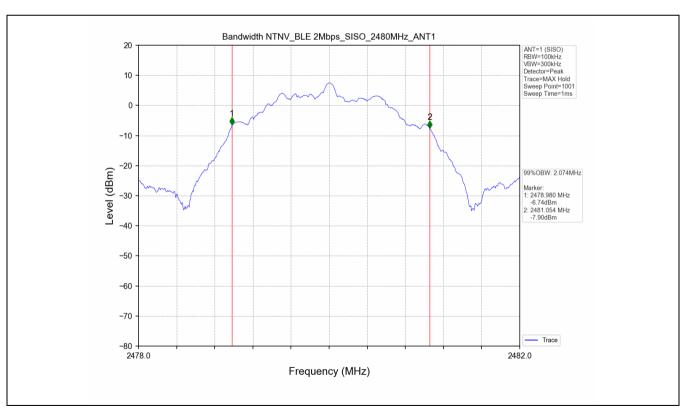
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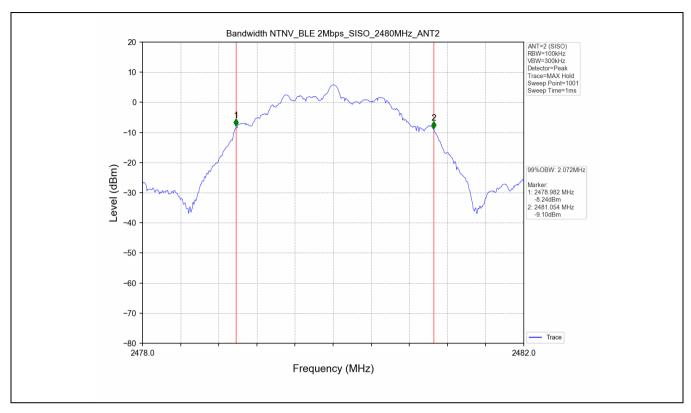


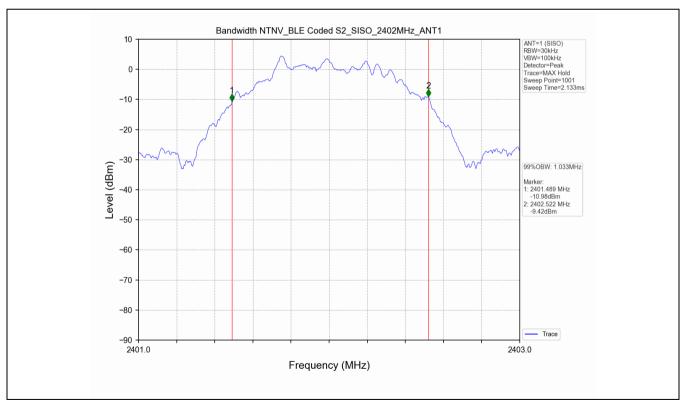
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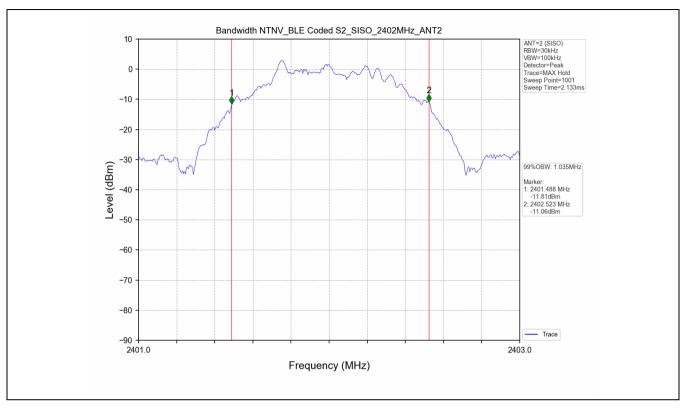


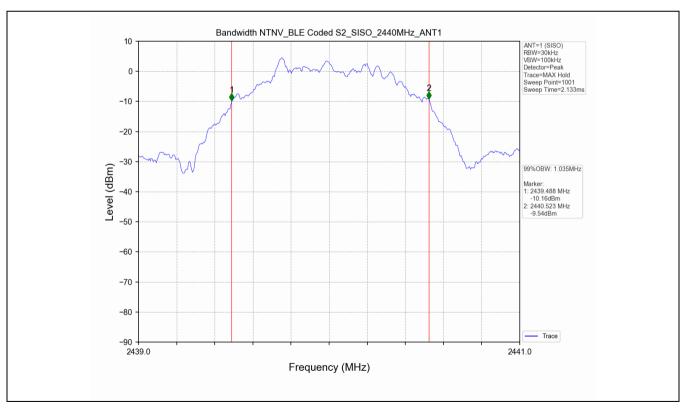
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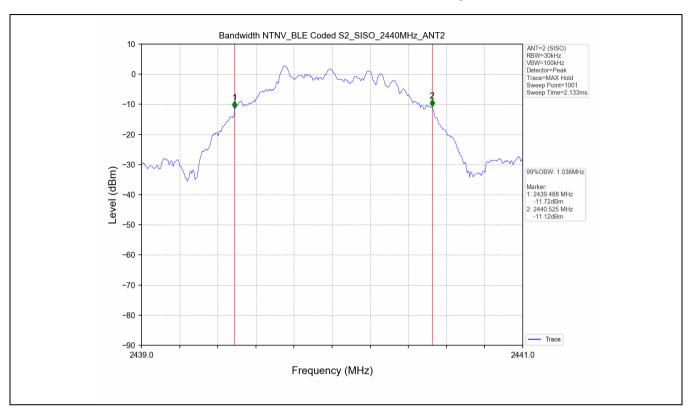


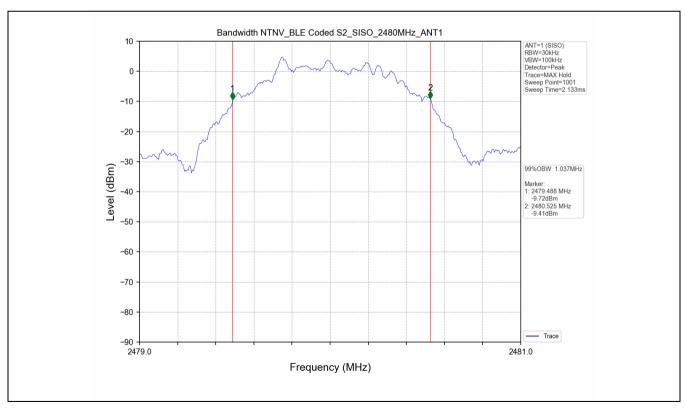
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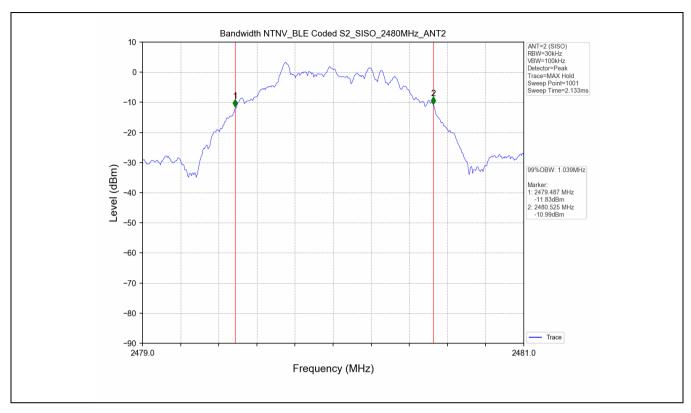


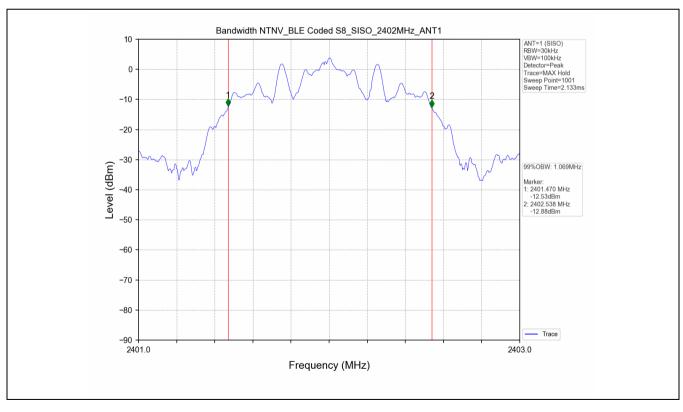
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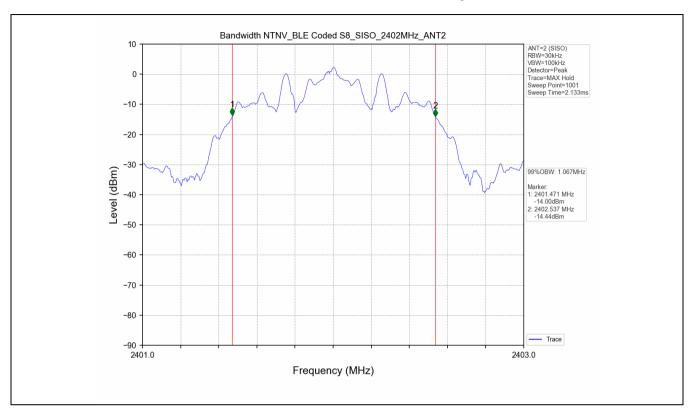
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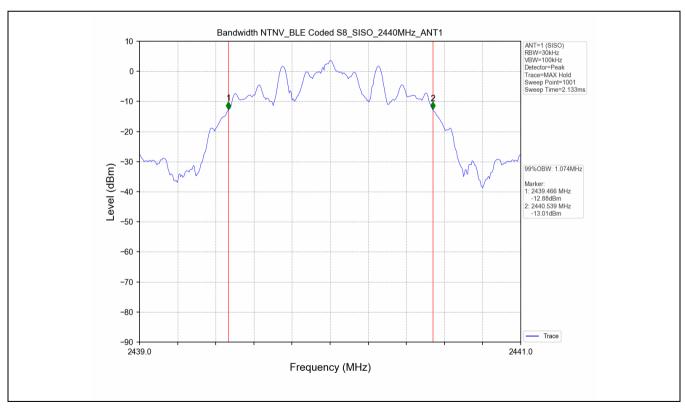
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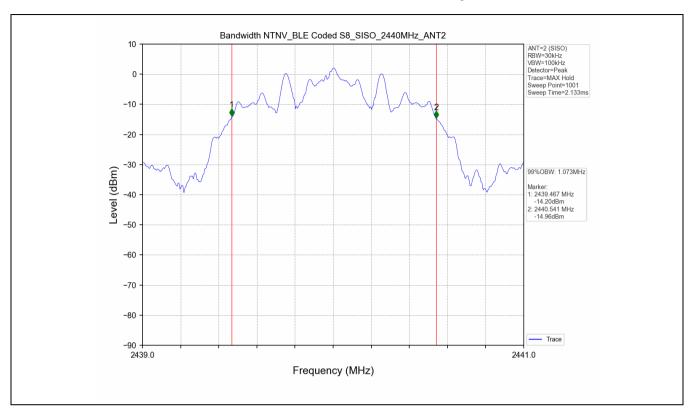
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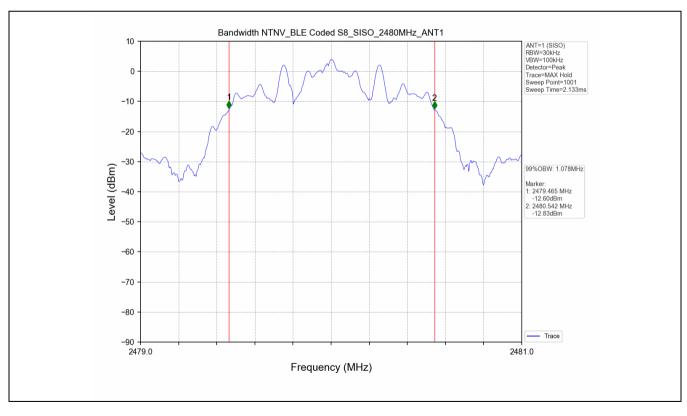
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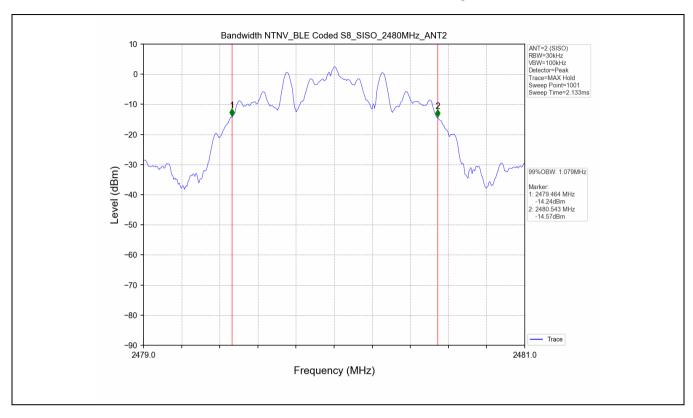
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3. Conducted Peak Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm)		Limits (dBm)	Verdict
			Ant 1	Ant 2		
BLE 1Mbps	2402	SISO	7.24	5.73	30	PASS
	2440	SISO	7.20	5.68	30	PASS
	2480	SISO	7.52	6.01	30	PASS
BLE 2Mbps	2402	SISO	7.26	5.72	30	PASS
	2440	SISO	7.21	5.66	30	PASS
	2480	SISO	7.54	5.89	30	PASS
BLE Coded S2 500Kbps	2402	SISO	7.24	5.70	30	PASS
	2440	SISO	7.21	5.65	30	PASS
	2480	SISO	7.53	6.00	30	PASS
BLE Coded S8 125Kbps	2402	SISO	7.25	5.70	30	PASS
	2440	SISO	7.21	5.65	30	PASS
	2480	SISO	7.53	6.00	30	PASS



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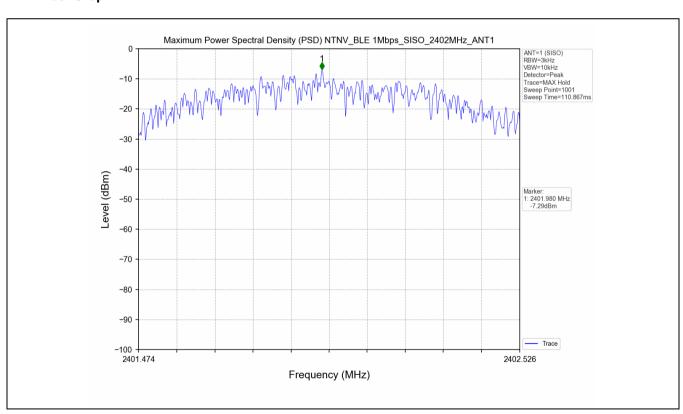
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4. Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz)		Limits	Verdict
			Ant 1	Ant 2	(dBm/3kHz)	
BLE 1Mbps	2402	SISO	-7.29	-8.90	≤8	PASS
	2440	SISO	-7.49	-9.05	≤8	PASS
	2480	SISO	-7.51	-8.99	≤8	PASS
BLE 2Mbps	2402	SISO	-9.99	-11.55	≤8	PASS
	2440	SISO	-10.15	-11.96	≤8	PASS
	2480	SISO	-10.04	-11.54	≤8	PASS
BLE Coded S2 500Kbps	2402	SISO	1.02	-0.58	≤8	PASS
	2440	SISO	1.01	-0.54	≤8	PASS
	2480	SISO	1.41	-0.17	≤8	PASS
BLE Coded S8 125Kbps	2402	SISO	1.18	-0.40	≤8	PASS
	2440	SISO	1.18	-0.44	≤8	PASS
	2480	SISO	1.50	-0.05	≤8	PASS

4.2 Test Graph





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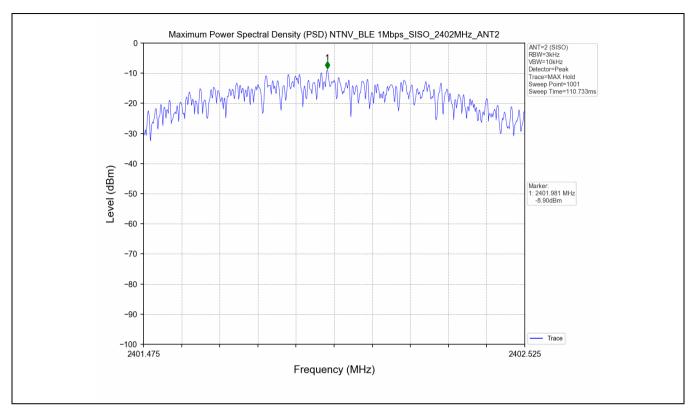
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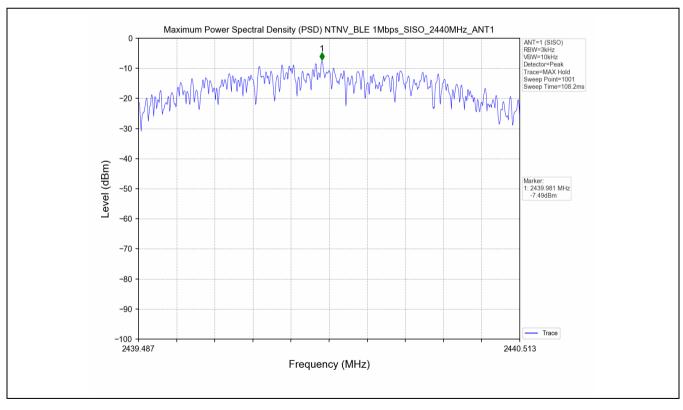
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