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Appendix A for SHEM210800866201

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1										
Mode	TX	Frequency	Ton	Period	Duty Cycle	Duty Cycle	Max. DC			
	Туре	(MHz)	(mms)	(ms)	(%)	Correction Factor (dB)	Variation (%)			
802.11b	SISO	2412	12.420	12.556	98.92	0.05	0.50			
		2437	12.410	12.590	98.57	0.06	0.84			
		2462	12.416	12.590	98.62	0.06	0.95			
802.11g	SISO	2412	2.063	2.234	92.35	0.35	5.53			
		2437	2.062	2.225	92.67	0.33	3.49			
		2462	2.063	2.234	92.35	0.35	5.91			
802.11n (HT20)	MIMO	2412	1.919	2.073	92.57	0.34	5.60			
		2437	1.917	2.054	93.33	0.30	3.85			
		2462	1.920	2.073	92.62	0.33	5.56			
802.11n (HT40)	MIMO	2422	0.938	1.104	84.96	0.71	4.36			
		2437	0.941	1.114	84.47	0.73	8.24			
		2452	0.942	1.105	85.25	0.69	11.00			



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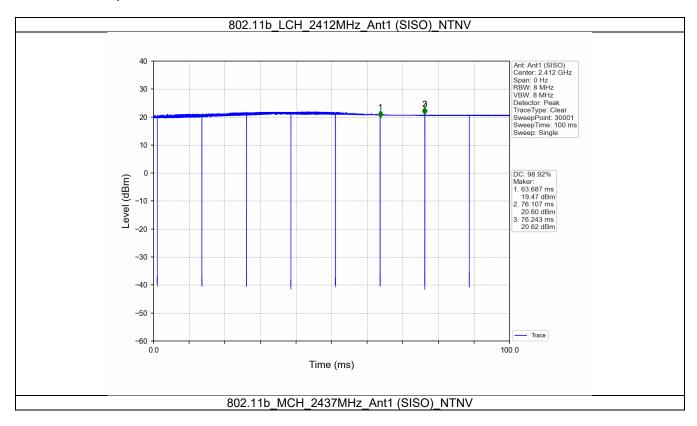
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1.1.2 Test Graph





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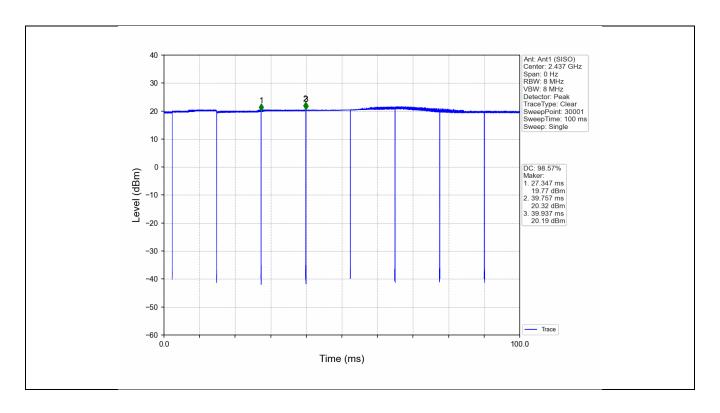
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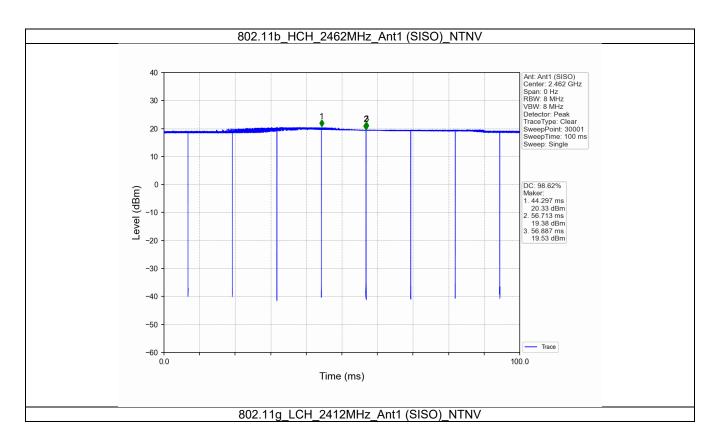
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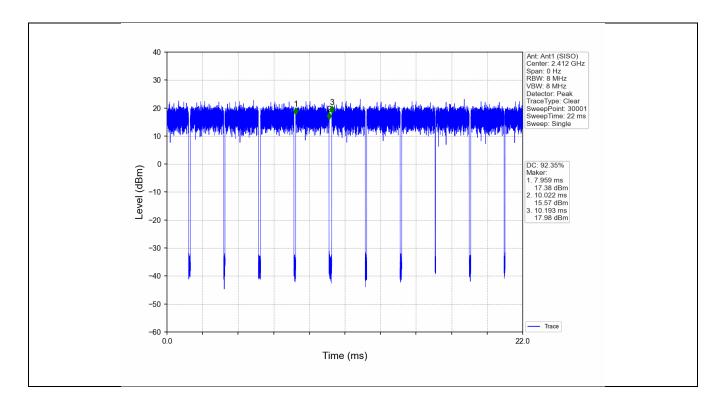
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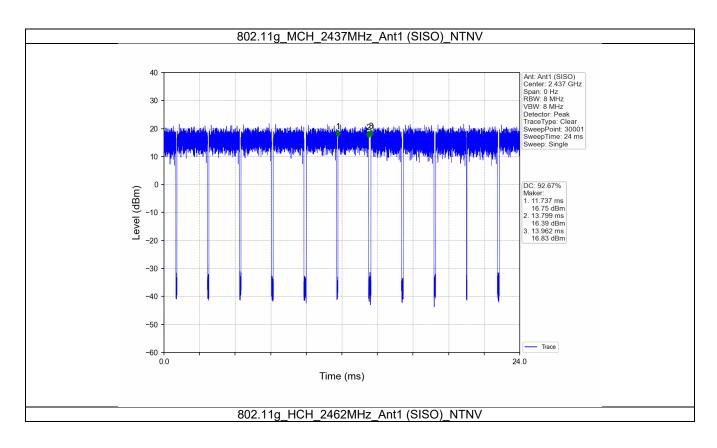
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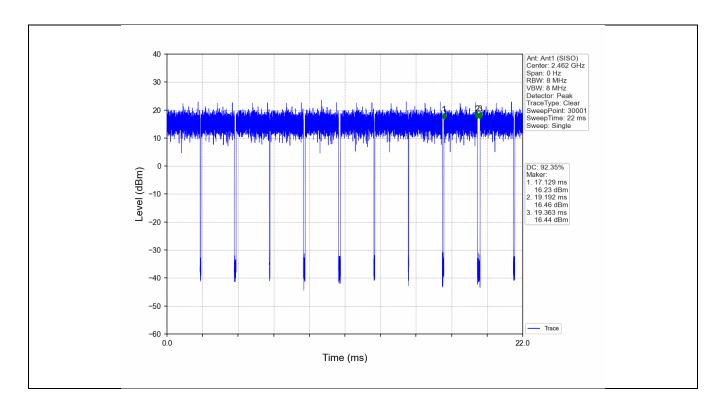
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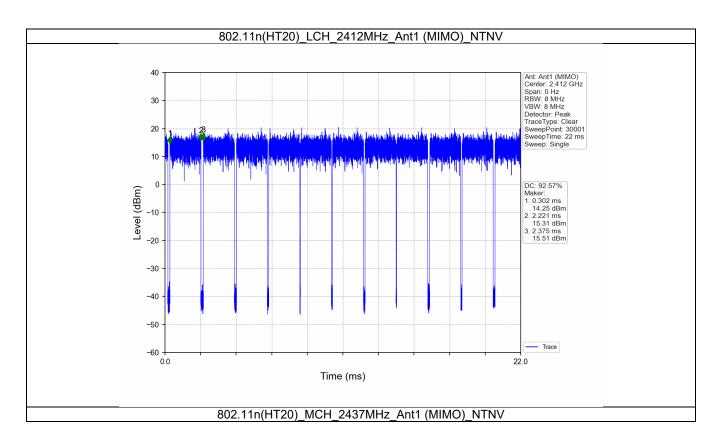
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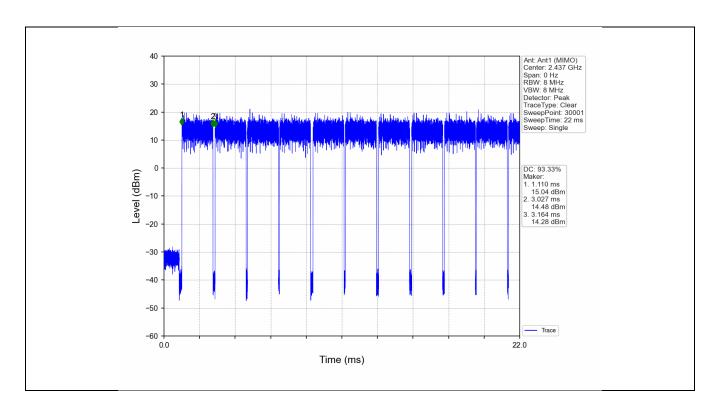
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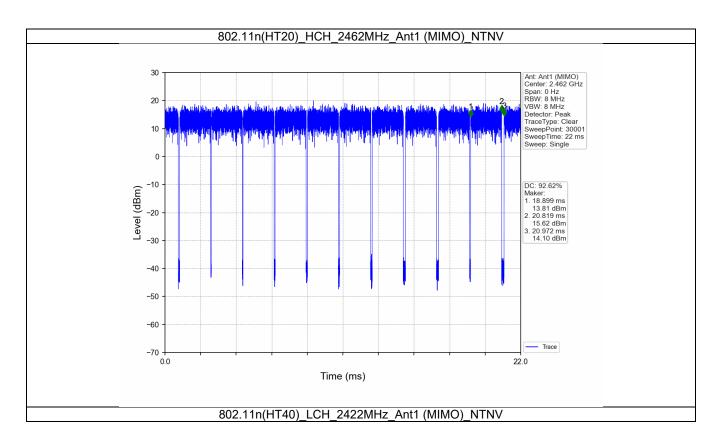
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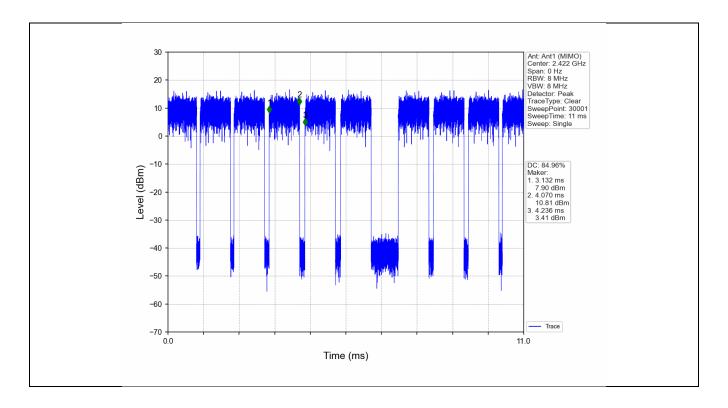
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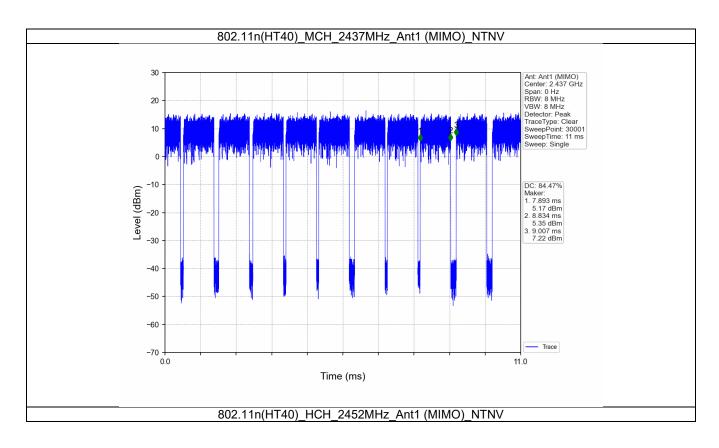
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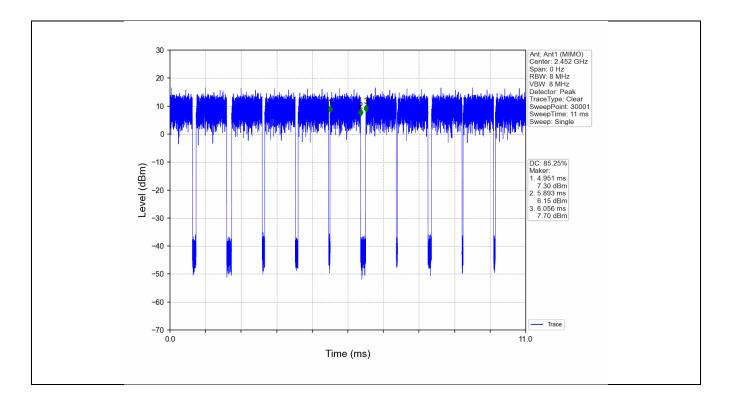
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict	
	Туре			Result	verdict	
802.11b	SISO	2412	1	14.962	Pass	
			2	15.141	Pass	
		2437	1	14.966	Pass	
002.110			2	15.049	Pass	
		2462	1	15.069	Pass	
I			2	15.085	Pass	
	SISO	2412	1	17.849	Pass	
			2	17.575	Pass	
000 112		2437	1	17.573	Pass	
802.11g			2	17.701	Pass	
		2462	1	17.976	Pass	
			2	17.811	Pass	
	MIMO	2412	1	18.522	Pass	
			2	18.491	Pass	
802.11n		2437	1	18.557	Pass	
(HT20)			2	18.657	Pass	
		2462	1	18.708	Pass	
			2	18.352	Pass	
	MIMO	2422	1	36.029	Pass	
			2	36.009	Pass	
802.11n		2437	1	36.045	Pass	
(HT40)			2	36.078	Pass	
,		2452	1	36.107	Pass	
			2	36.027	Pass	



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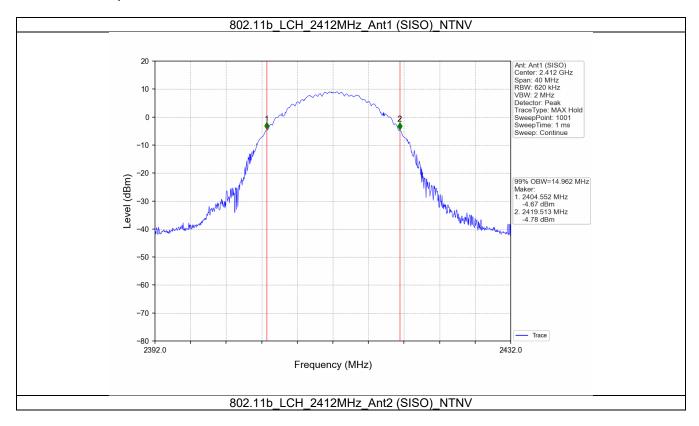
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2.1.2 Test Graph





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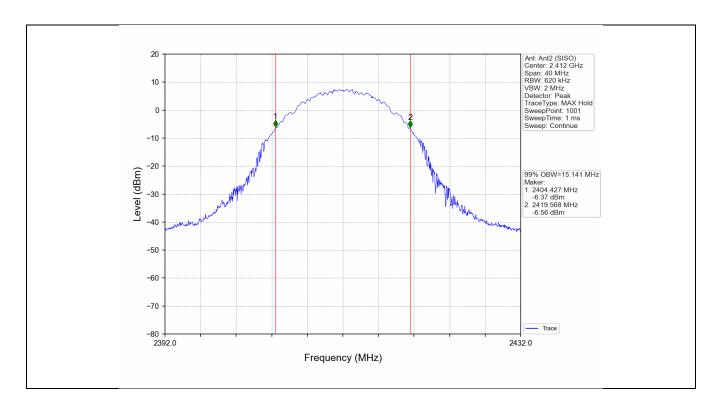
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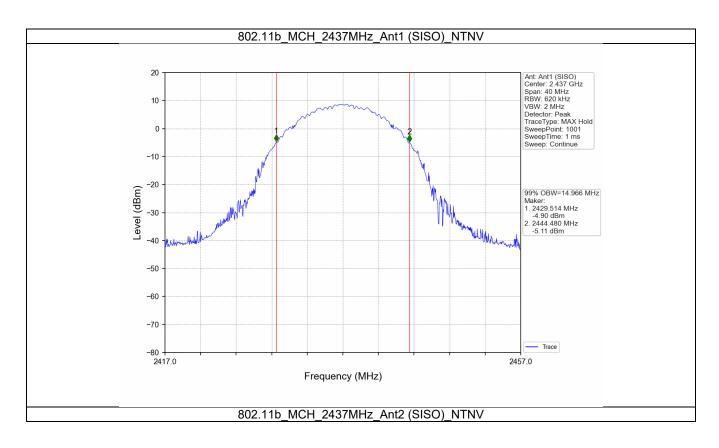
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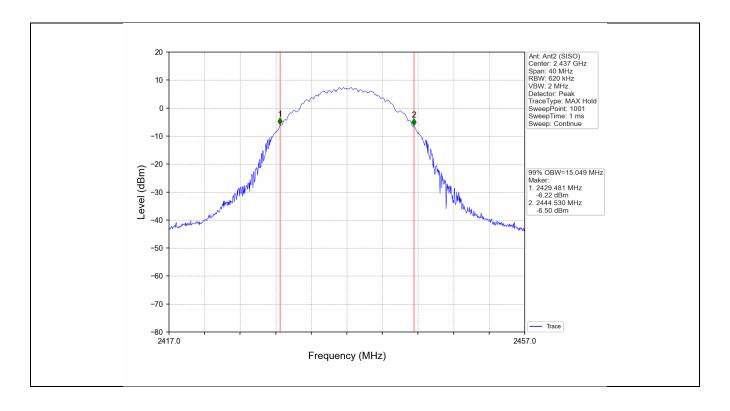
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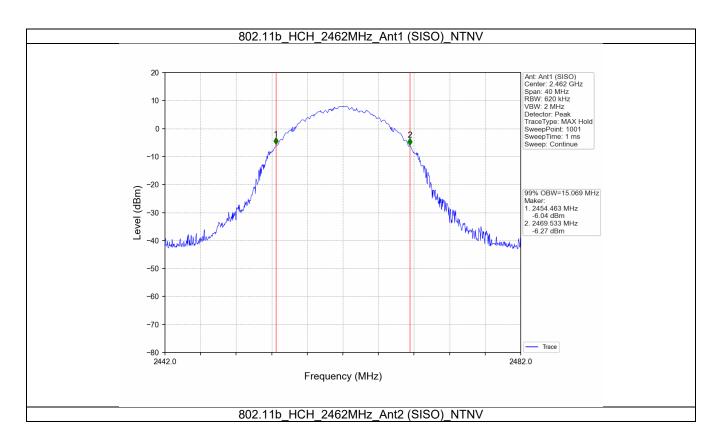
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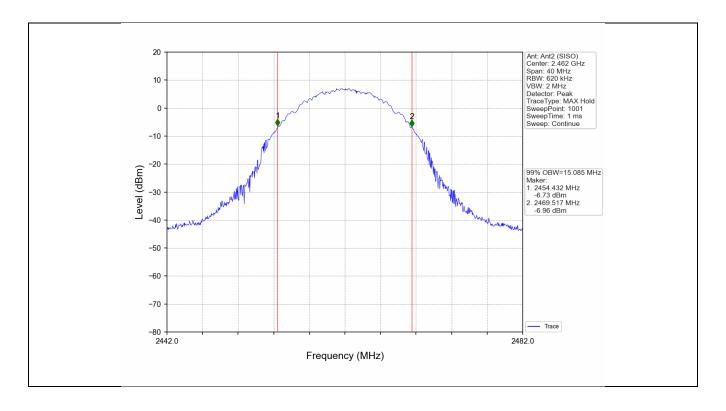
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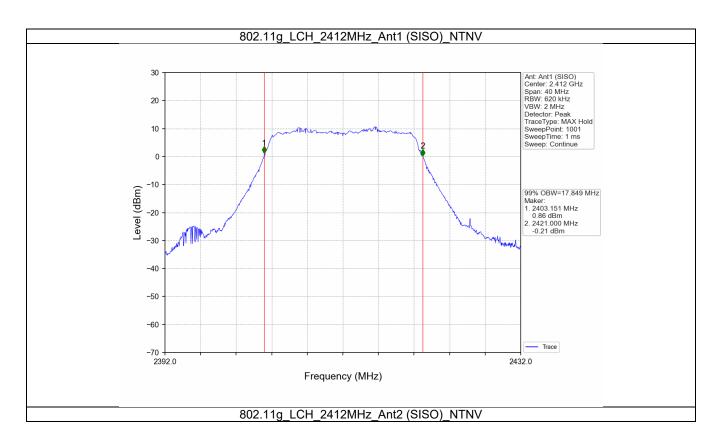
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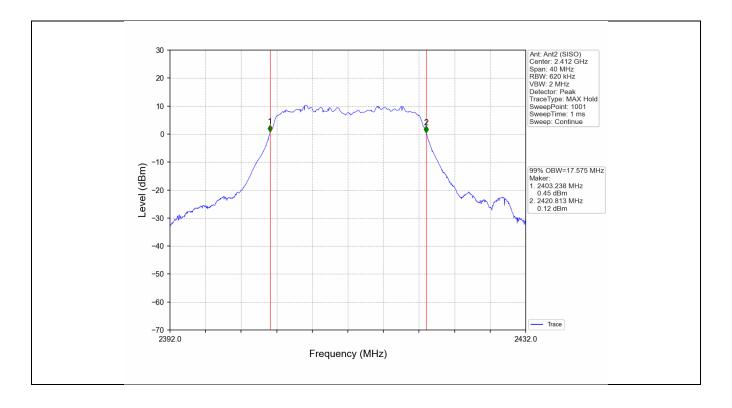
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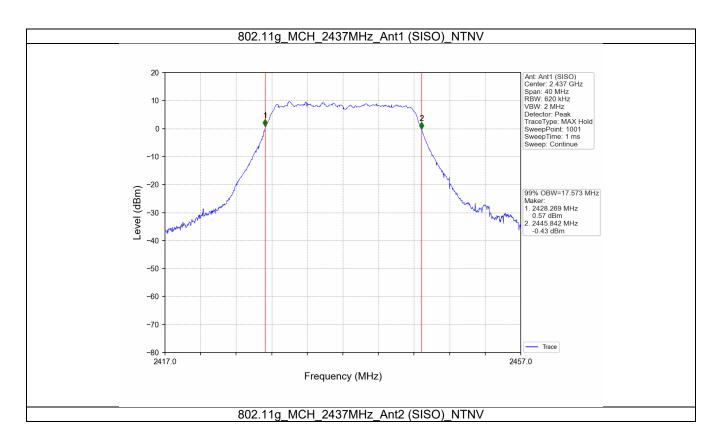
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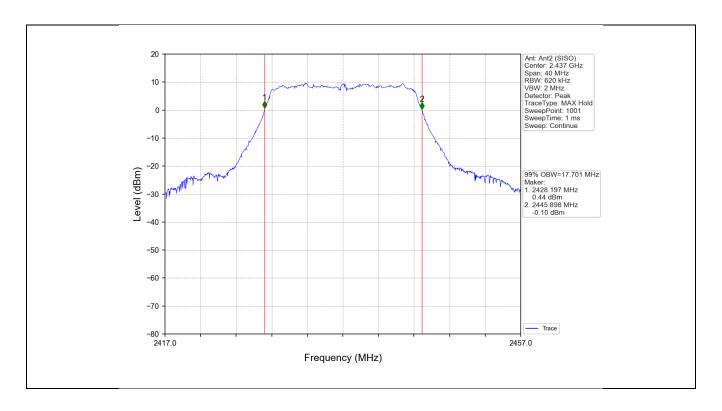
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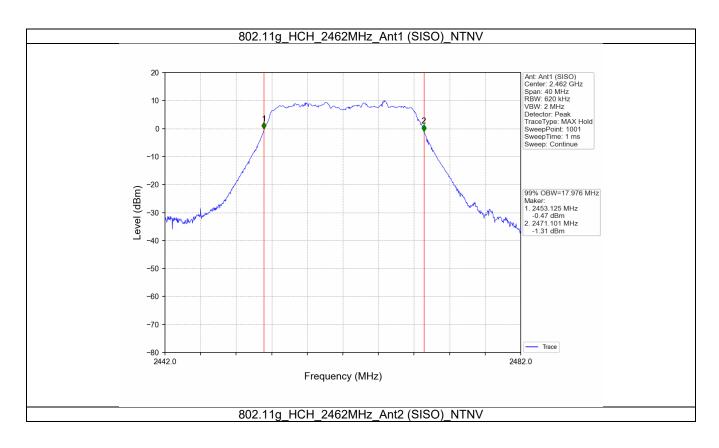
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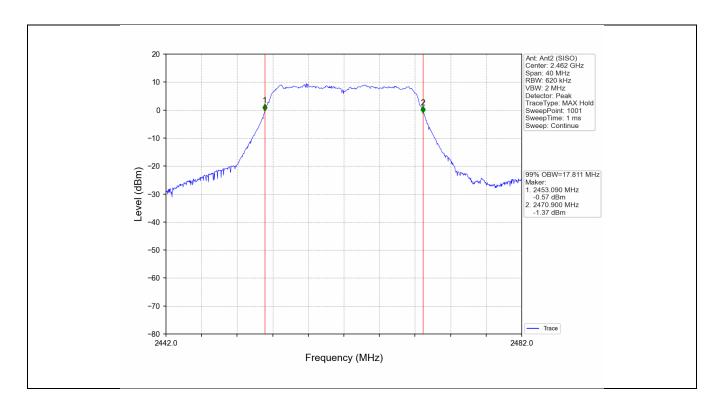
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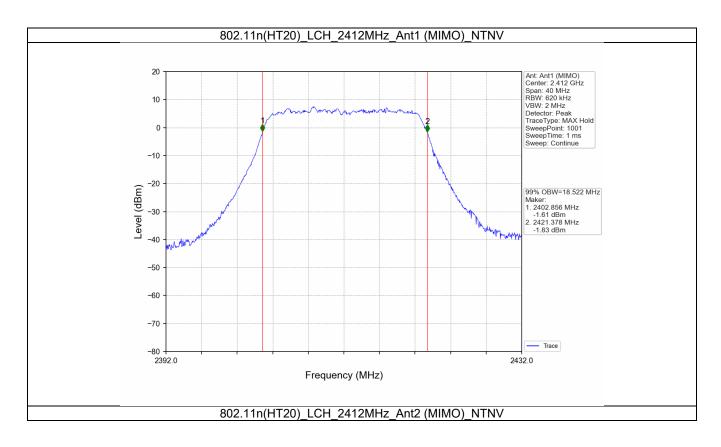
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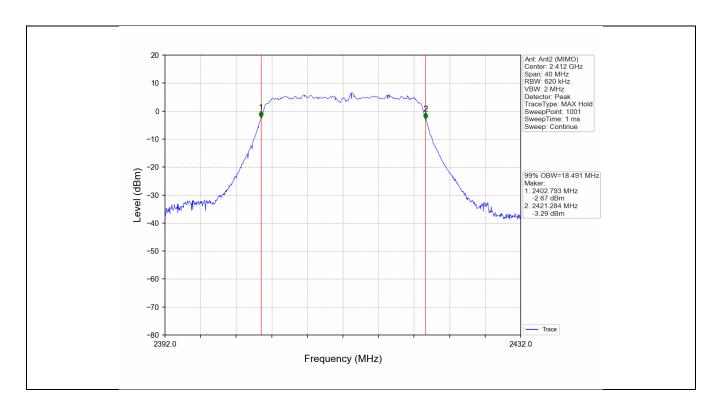
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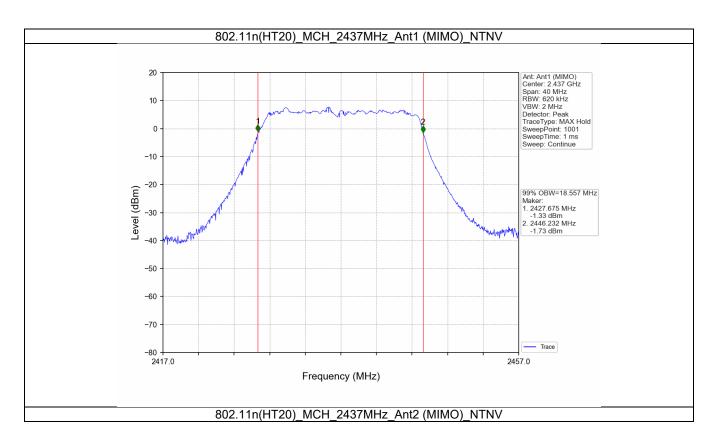
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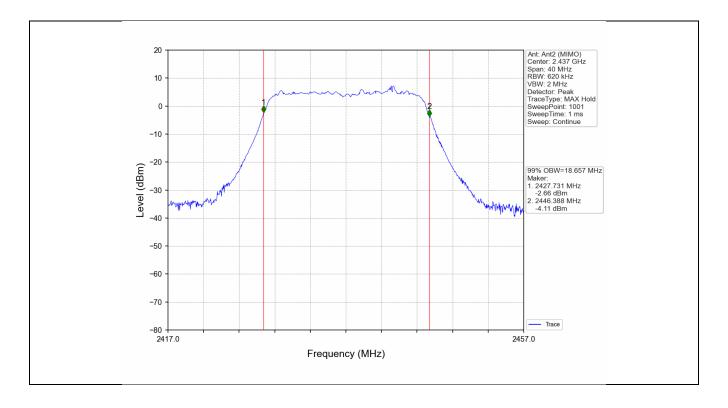
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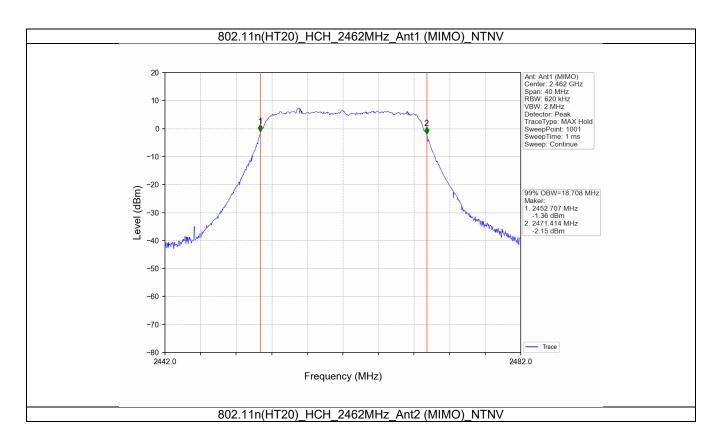
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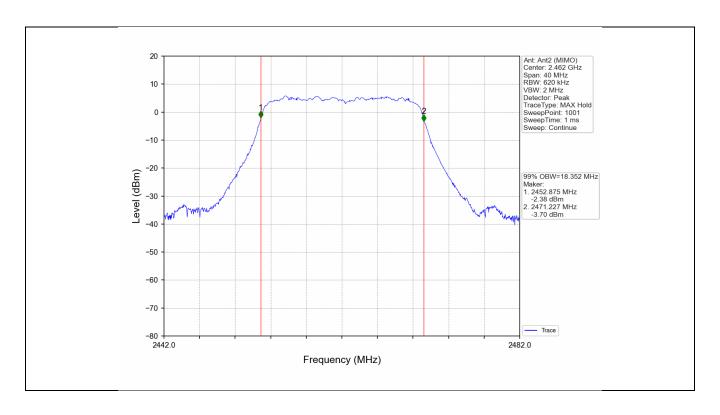
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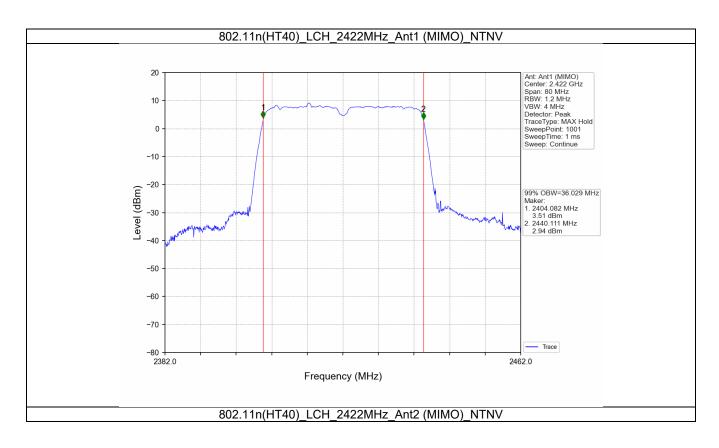
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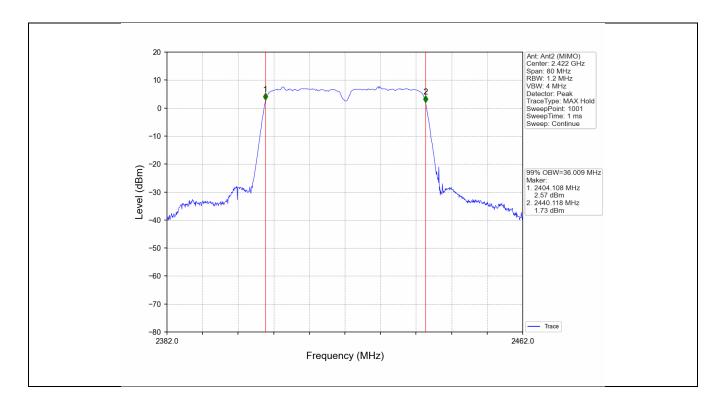
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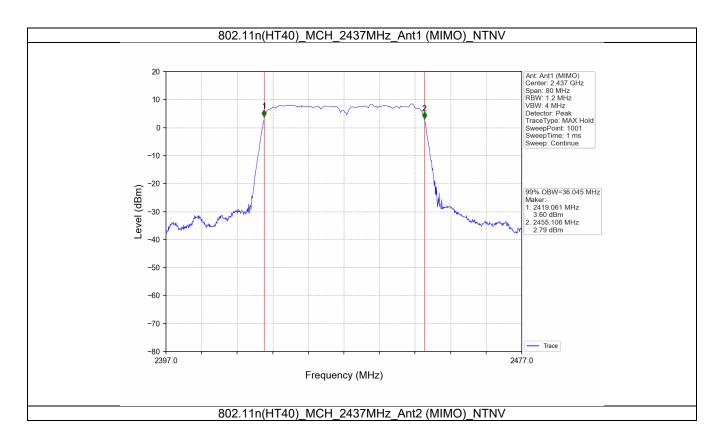
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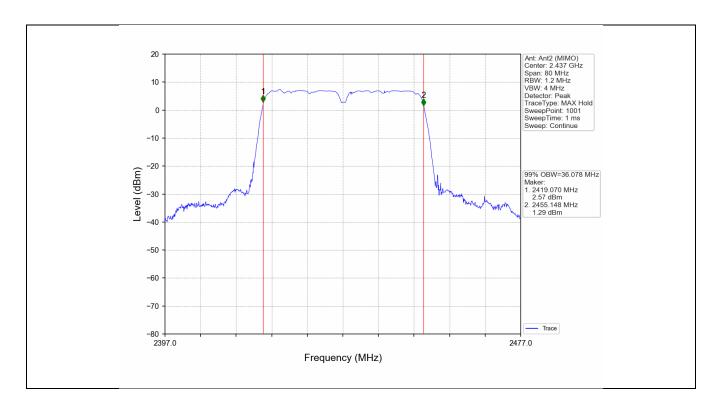
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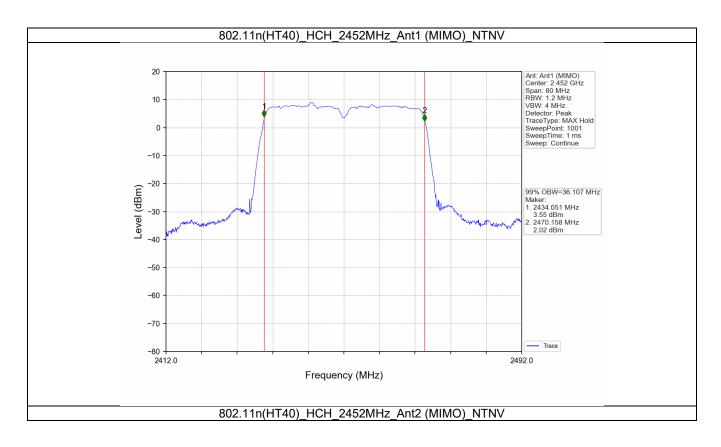
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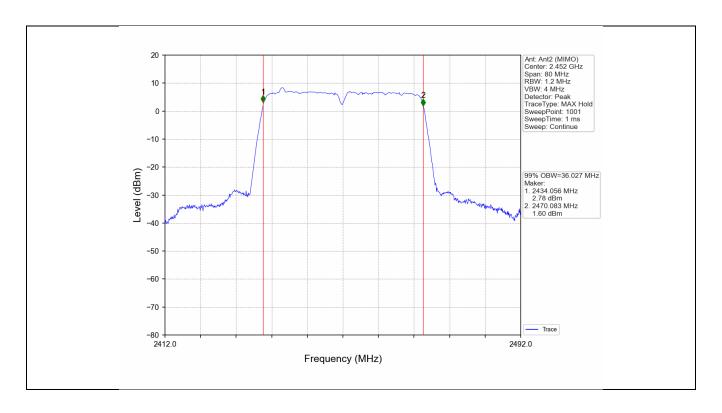
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency (MHz)	Ant	6dB Bandw	Vardiet	
	Type			Result	Limit	Verdict
802.11b	SISO	2412	1	10.085	>=0.5	Pass
			2	10.091	>=0.5	Pass
		2437	1	10.092	>=0.5	Pass
			2	10.092	>=0.5	Pass
		2462	1	10.076	>=0.5	Pass
			2	10.099	>=0.5	Pass
802.11g	SISO	2412	1	16.375	>=0.5	Pass
			2	16.395	>=0.5	Pass
		2437	1	16.382	>=0.5	Pass
			2	16.388	>=0.5	Pass
		2462	1	16.385	>=0.5	Pass
			2	16.377	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.570	>=0.5	Pass
			2	17.573	>=0.5	Pass
		2437	1	17.571	>=0.5	Pass
			2	17.549	>=0.5	Pass
		2462	1	17.582	>=0.5	Pass
			2	17.578	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.416	>=0.5	Pass
			2	35.686	>=0.5	Pass
		2437	1	35.562	>=0.5	Pass
			2	35.574	>=0.5	Pass
		2452	1	35.312	>=0.5	Pass
			2	35.754	>=0.5	Pass



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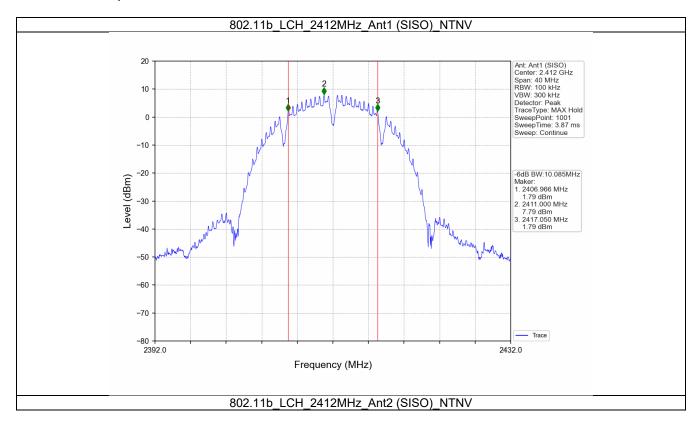
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2.2.2 Test Graph





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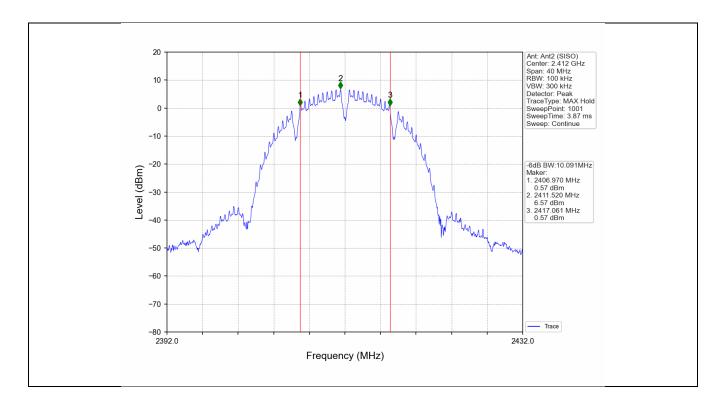
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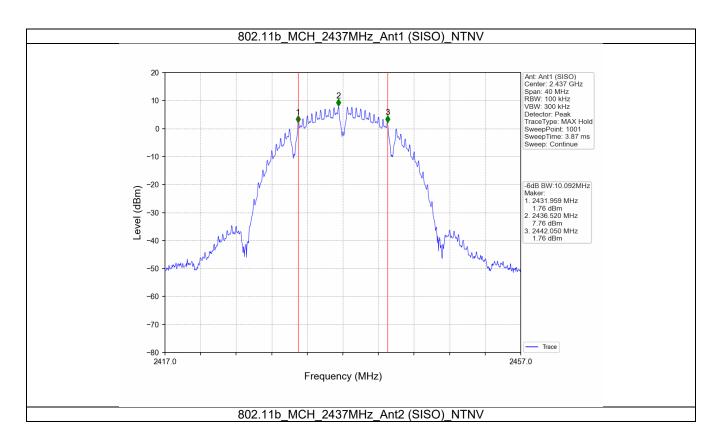
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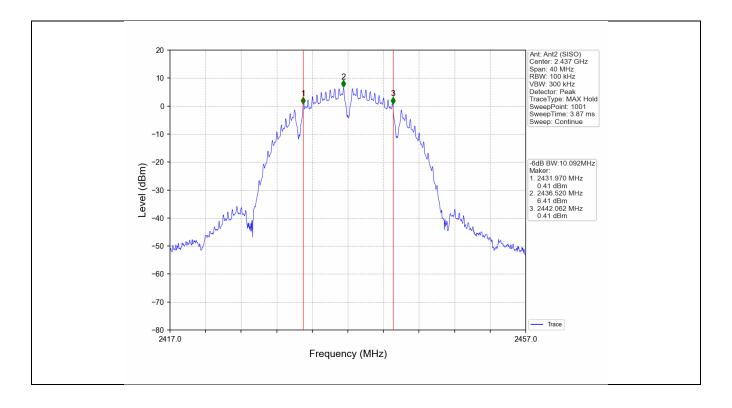
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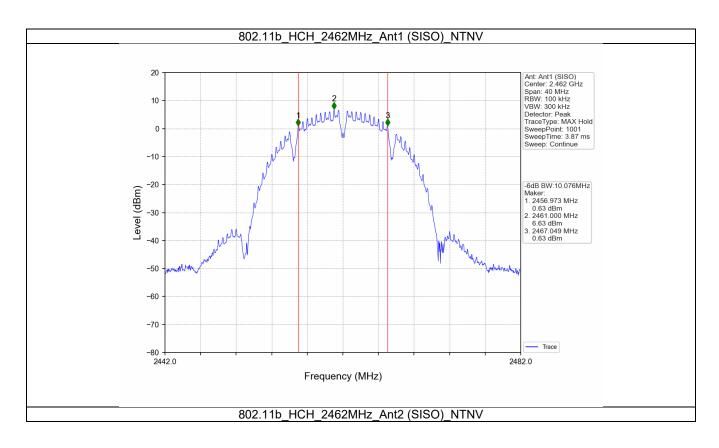
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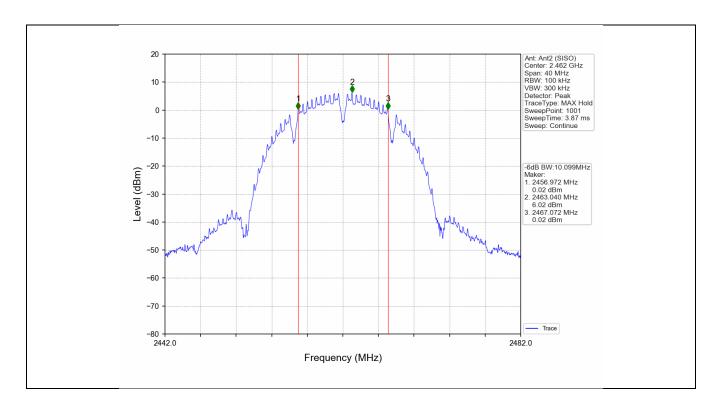
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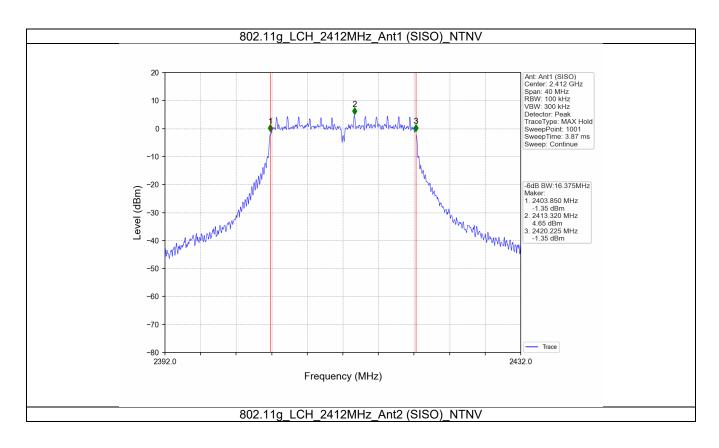
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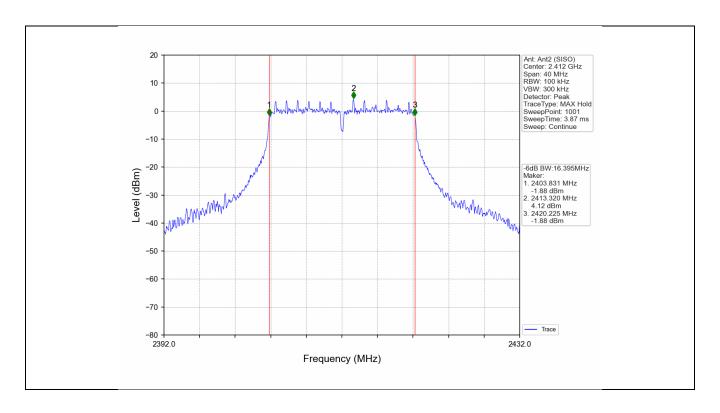
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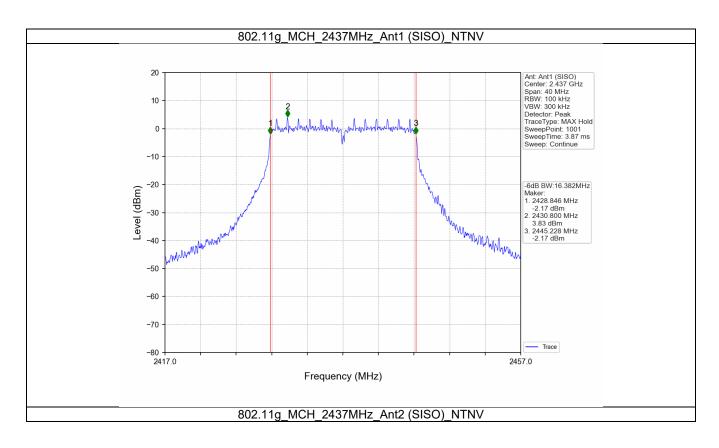
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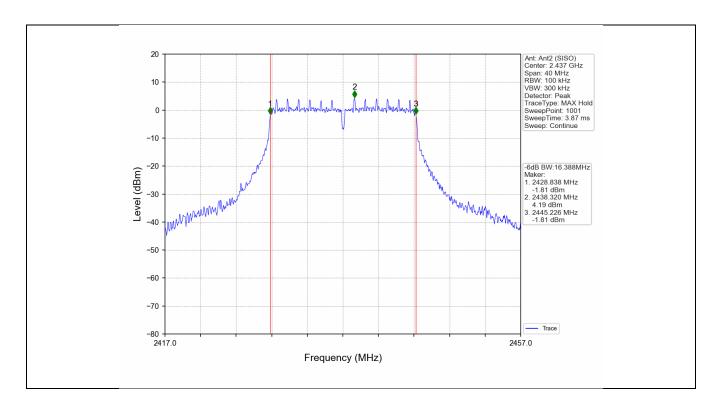
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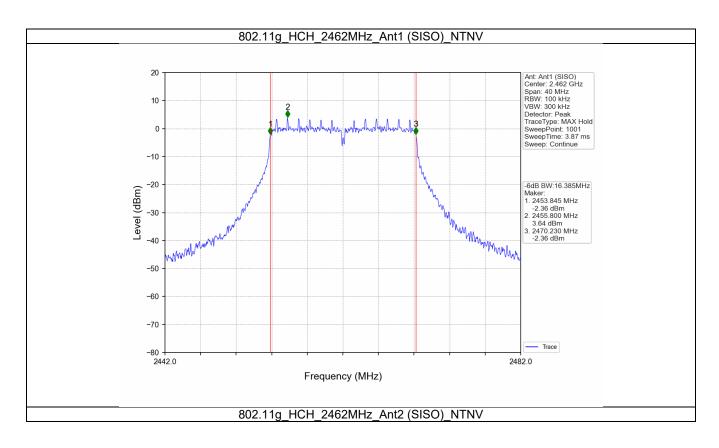
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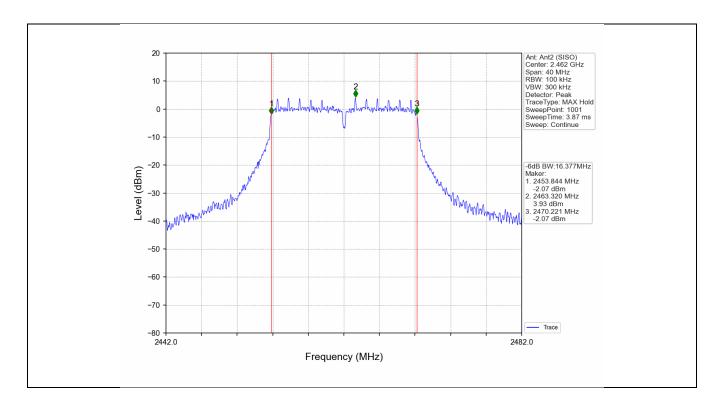
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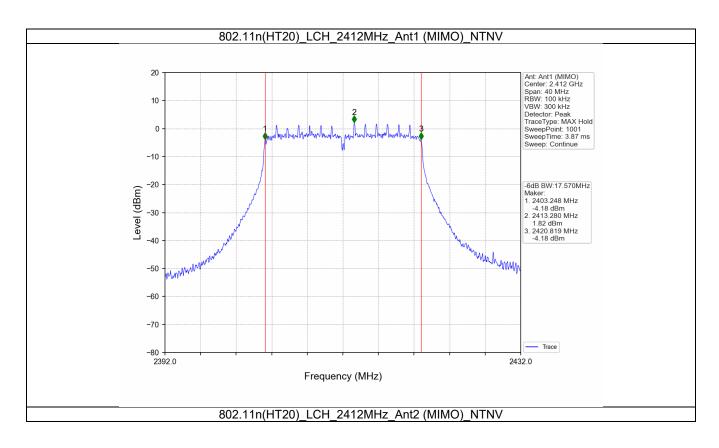
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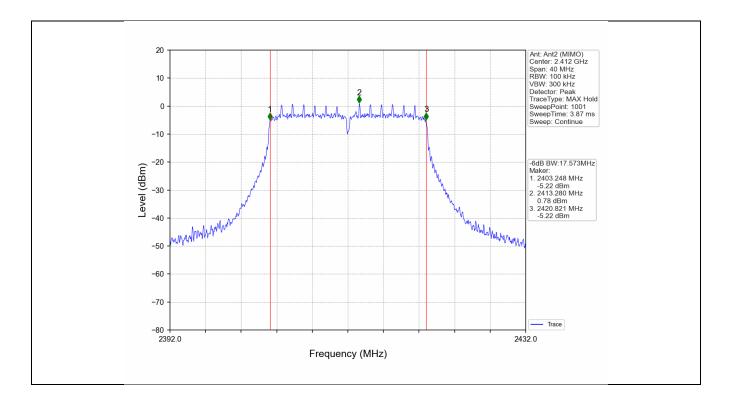
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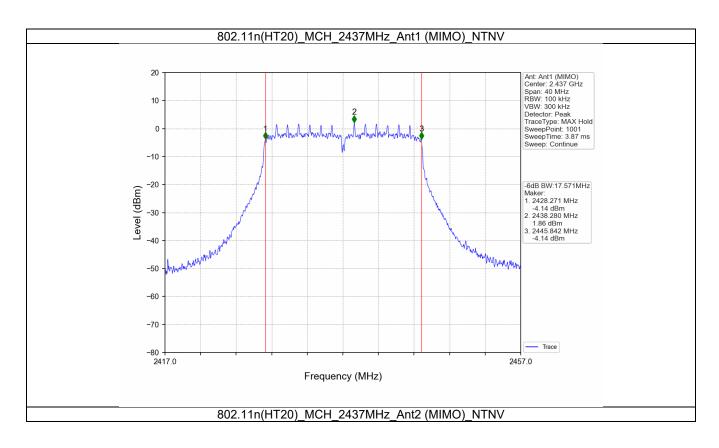
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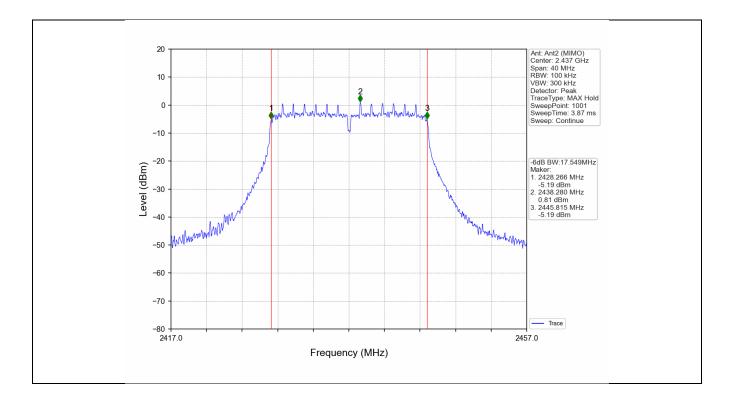
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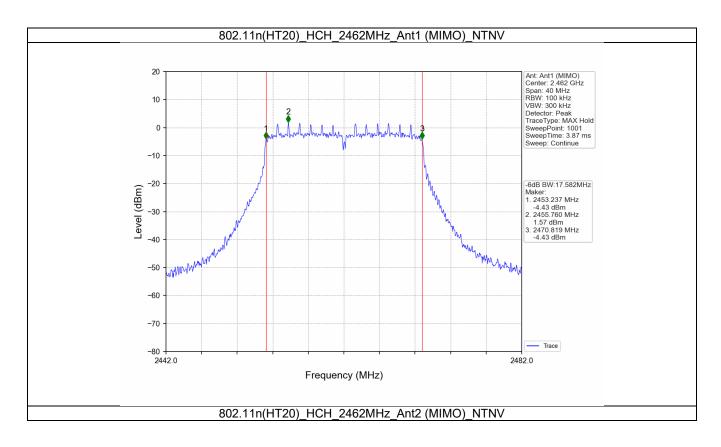
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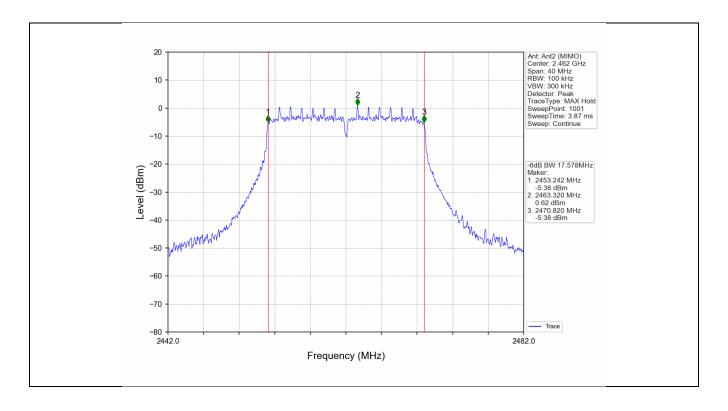
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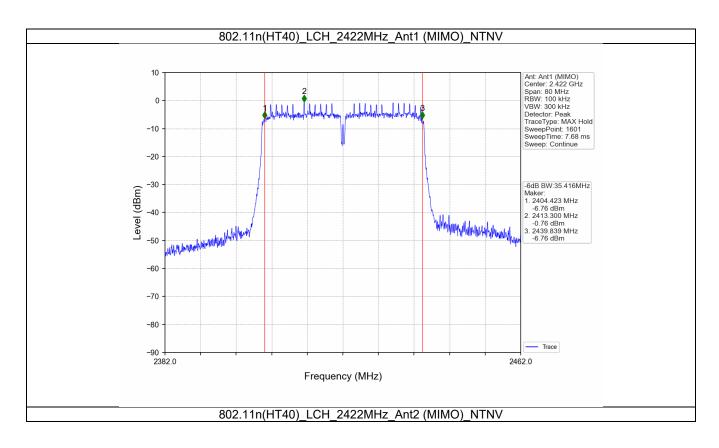
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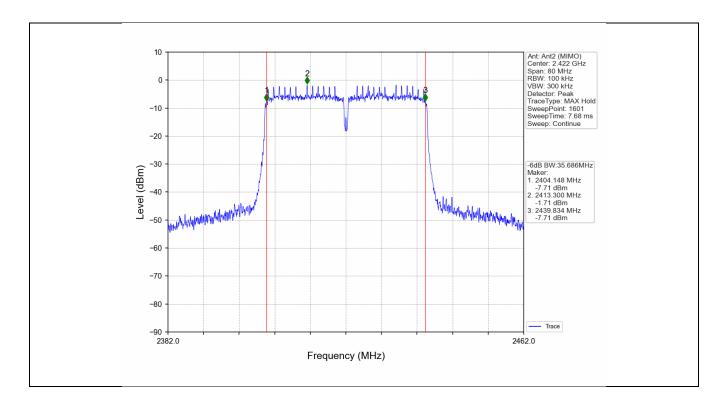
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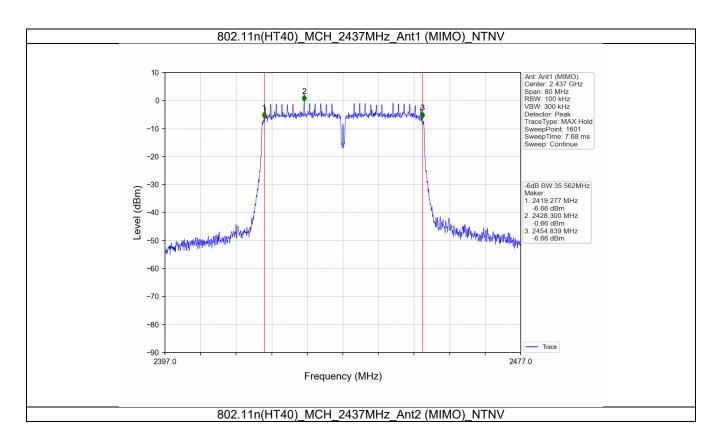
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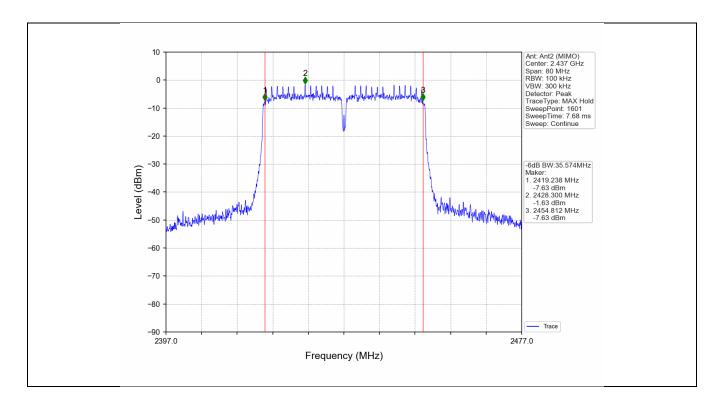
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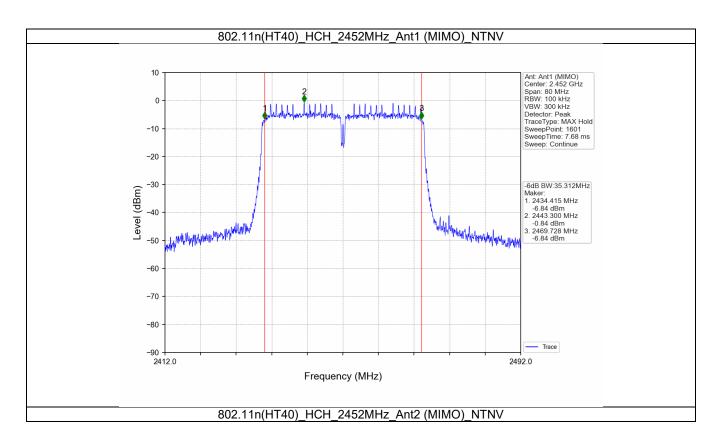
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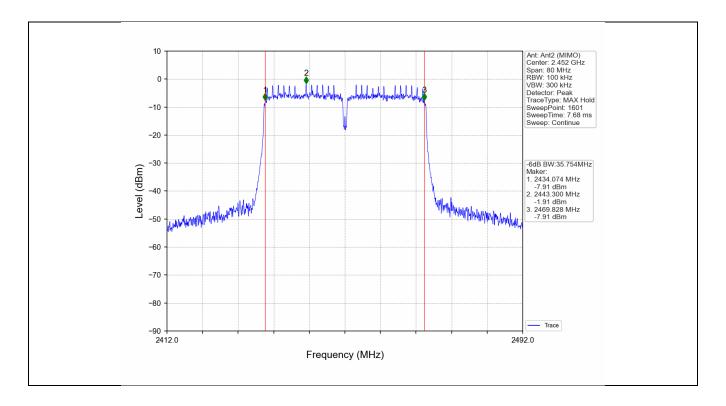
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maxim	Verdict			
	Type	(MHz)	Ant1	Ant2	MIMO	Limit	verdict
802.11b	SISO	2412	19.54	17.89	1	<=30	Pass
		2437	19.21	17.89	1	<=30	Pass
		2462	18.17	17.48	1	<=30	Pass
802.11g	SISO	2412	23.45	22.92	1	<=30	Pass
		2437	22.71	23.00	1	<=30	Pass
		2462	22.62	22.68	1	<=30	Pass
802.11n (HT20)	MIMO	2412	20.68	19.66	23.21	<=30	Pass
		2437	20.67	19.70	23.22	<=30	Pass
		2462	20.56	19.47	23.06	<=30	Pass
802.11n (HT40)	МІМО	2422	21.29	20.31	23.84	<=30	Pass
		2437	21.20	20.28	23.77	<=30	Pass
		2452	21.13	20.20	23.70	<=30	Pass

Note1: Antenna Gain: Ant1: 1.19dBi; Ant2: 2.62dBi;

Note2: Directional Gain: 4.94dBi

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	Maximum PSD (dBm/3kHz)				\/awdiat
	Туре	(MHz)	Ant1	Ant2	MIMO	Limit	Verdict
802.11b	SISO	2412	-6.46	-7.69	/	<=8	Pass
		2437	-7.09	-6.30	/	<=8	Pass
		2462	-7.57	-7.43	/	<=8	Pass
802.11g	SISO	2412	-7.39	-9.93	/	<=8	Pass
		2437	-7.45	-9.85	/	<=8	Pass
		2462	-7.64	-9.80	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-10.82	-13.92	-9.90	<=8	Pass
		2437	-11.01	-12.98	-10.01	<=8	Pass
		2462	-11.11	-14.53	-10.14	<=8	Pass
802.11n (HT40)	MIMO	2422	-11.04	-16.17	-10.08	<=8	Pass
		2437	-11.02	-16.47	-10.04	<=8	Pass
		2452	-11.30	-15.96	-10.29	<=8	Pass
Note1: Antenn	a Gain: Ant1: 1	.19dBi; Ant2: 2.62	2dBi;	•	•		•

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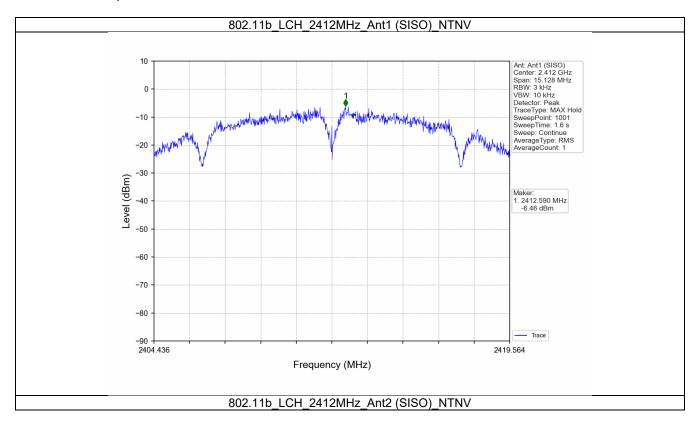
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4.1.2 Test Graph





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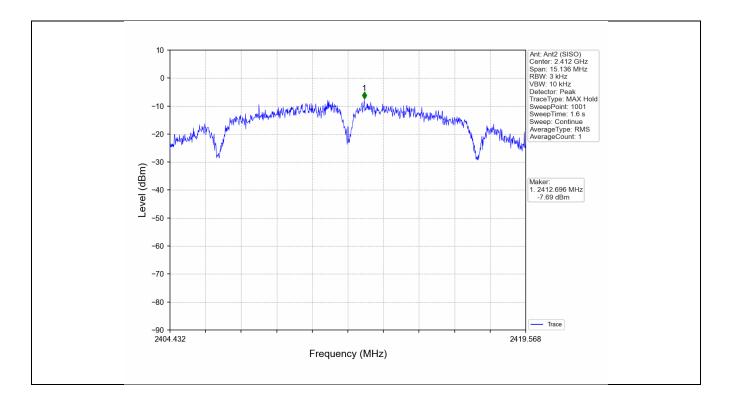
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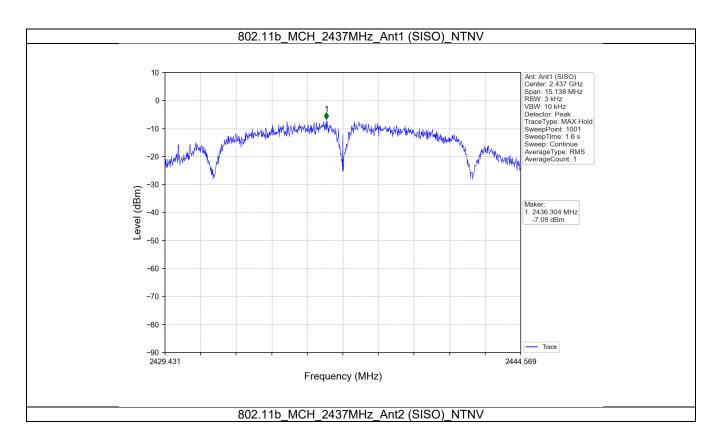
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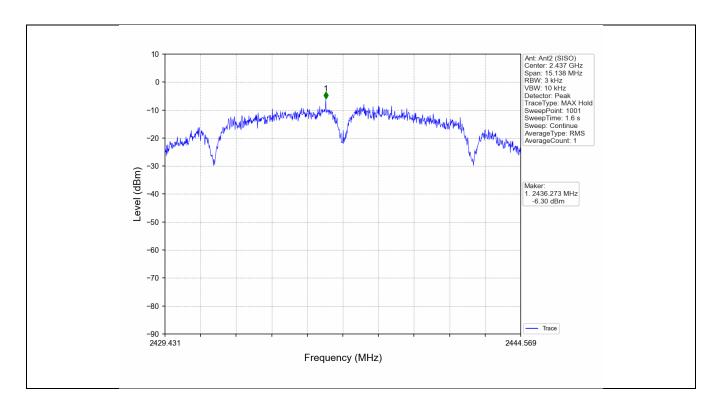
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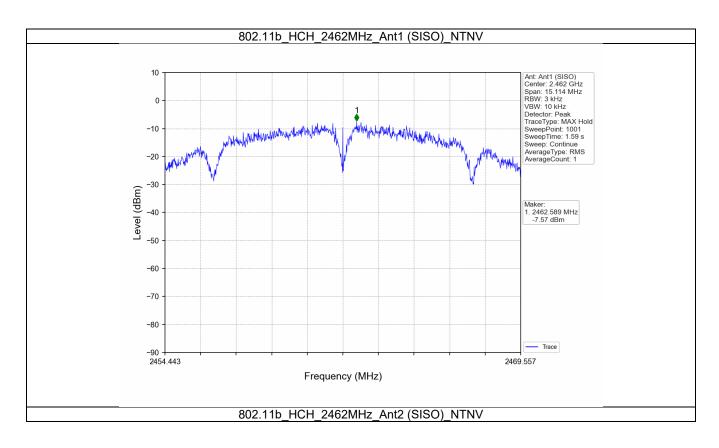
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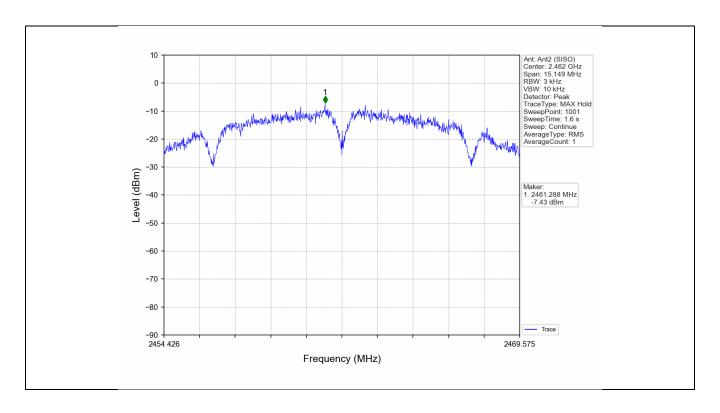
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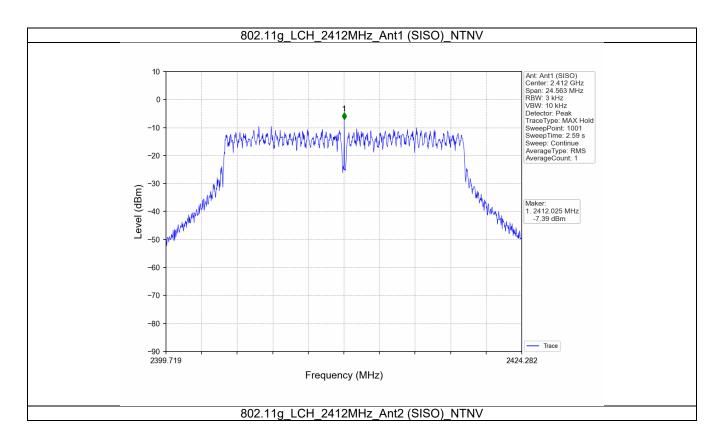
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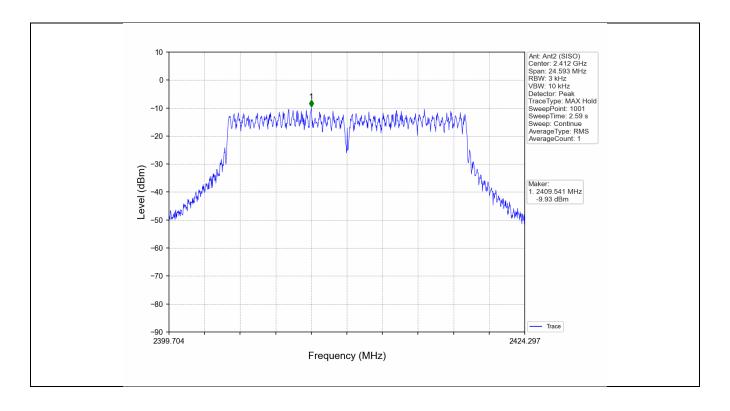
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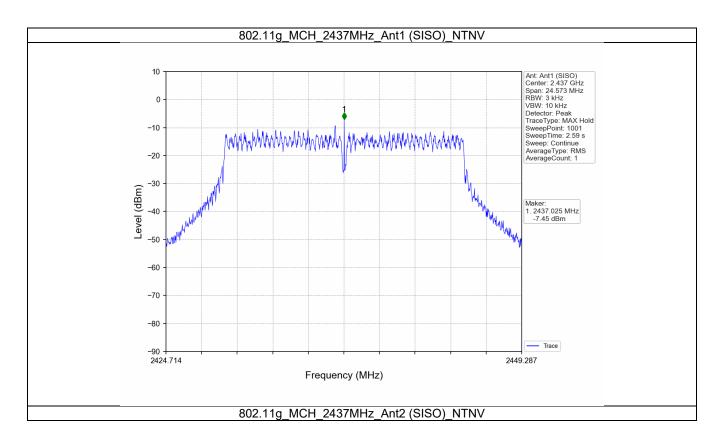
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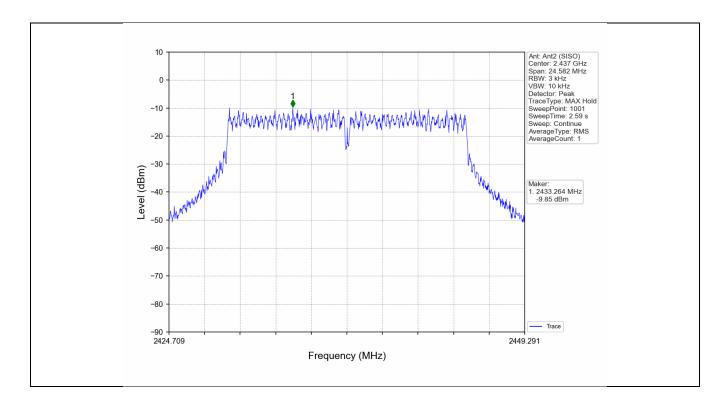
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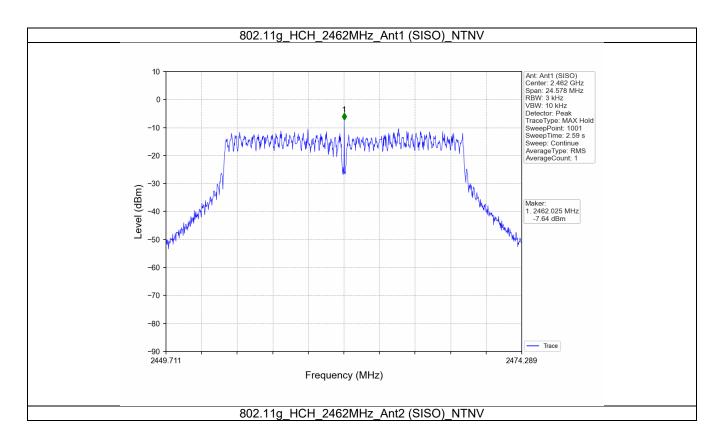
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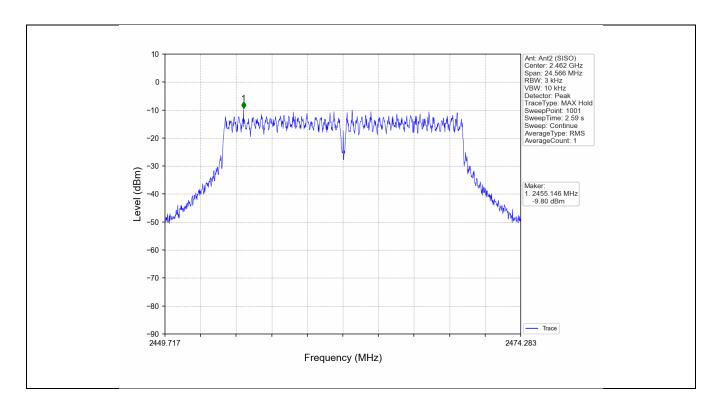
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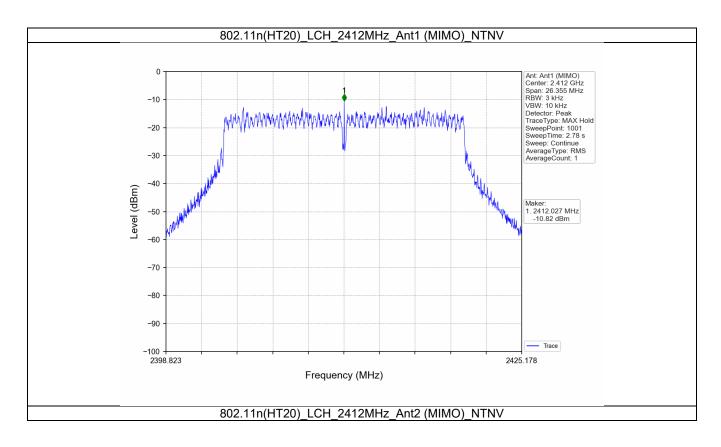
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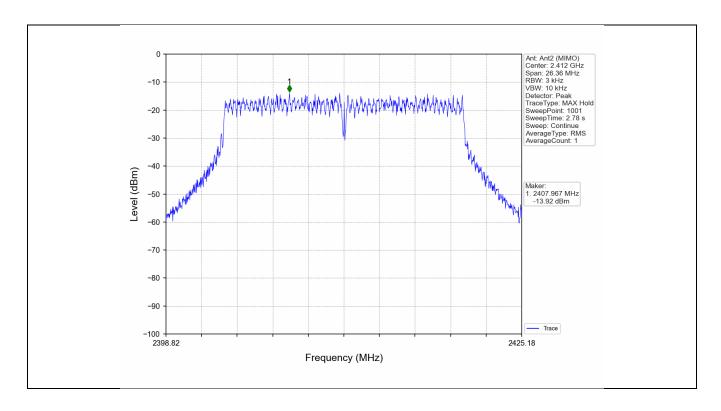
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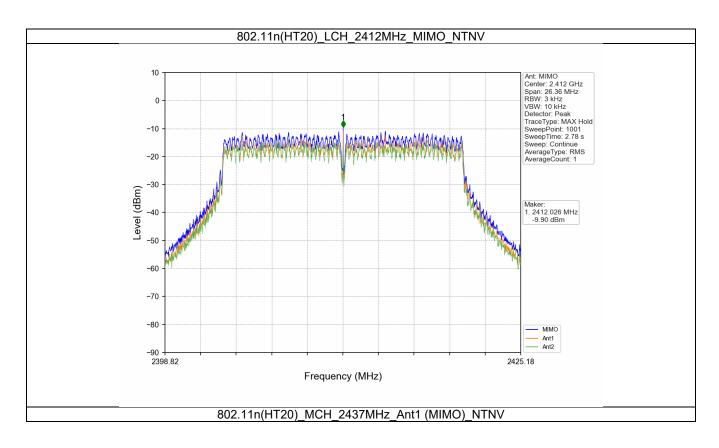
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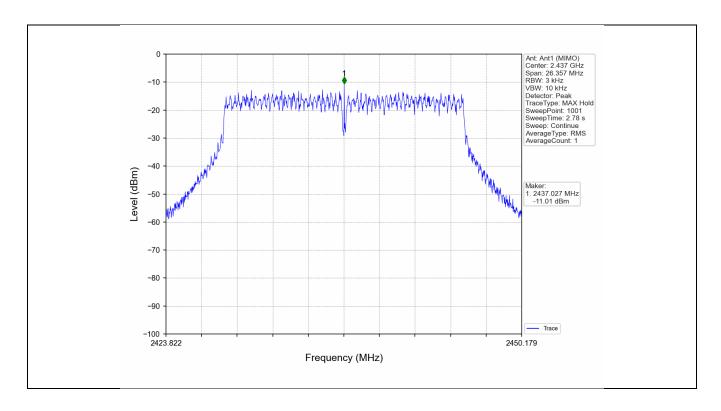
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