Appendix A for SHEM210100049401

1. Duty Cycle

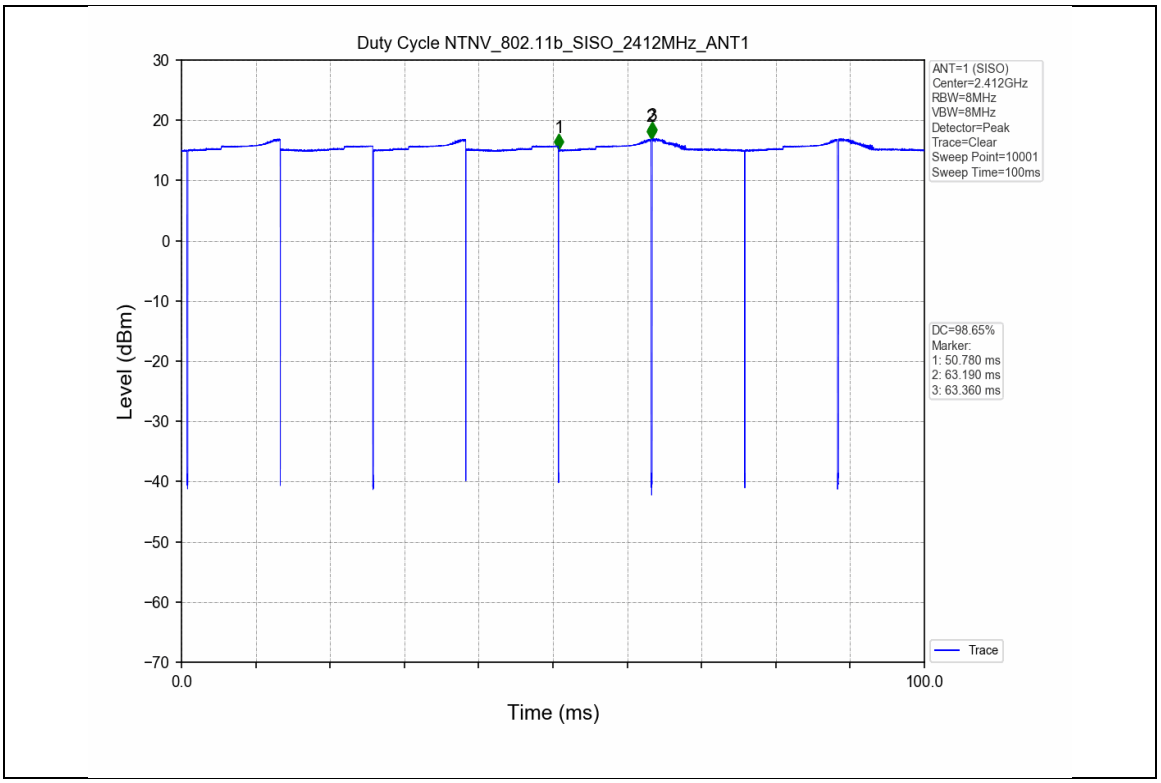
1.1 Test Result

Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.410	12.580	98.65	0.06
	2437	SISO	1	12.420	12.560	98.89	0.05
	2462	SISO	1	12.420	12.550	98.96	0.05
802.11g	2412	SISO	1	2.036	2.194	92.80	0.32
	2437	SISO	1	2.036	2.194	92.80	0.32
	2462	SISO	1	2.039	2.207	92.39	0.34
802.11n(HT20)	2412	MIMO	1	1.898	2.065	91.91	0.37
	2437	MIMO	1	1.890	2.048	92.29	0.35
	2462	MIMO	1	1.890	2.039	92.69	0.33
802.11n(HT40)	2422	MIMO	1	0.916	1.063	86.17	0.65
	2437	MIMO	1	0.943	1.096	86.04	0.65
	2452	MIMO	1	0.943	1.114	84.65	0.72

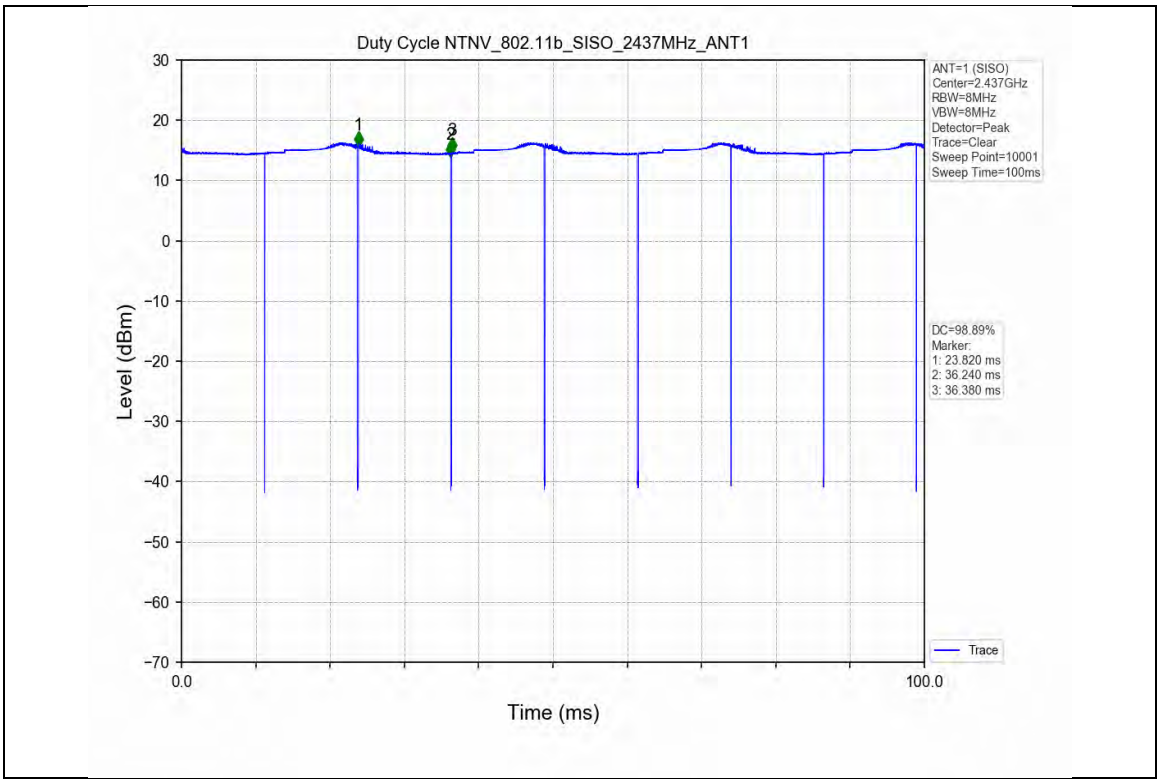
1.2 Test Graph

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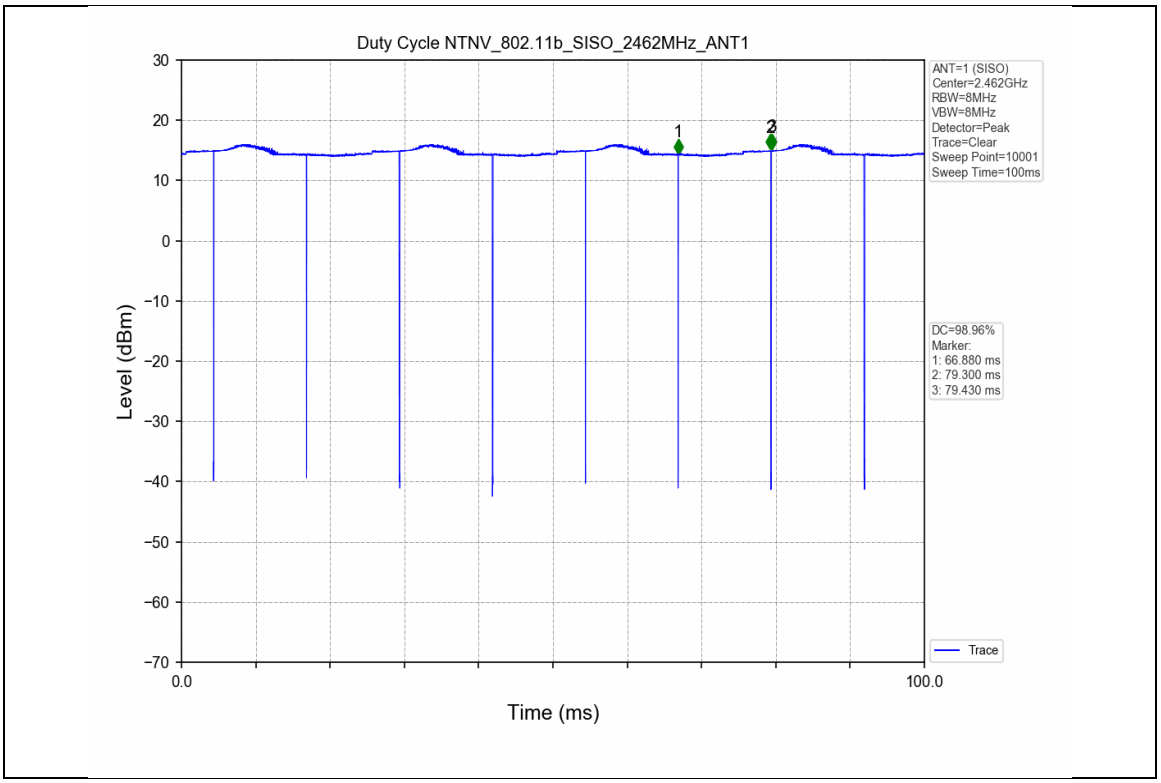
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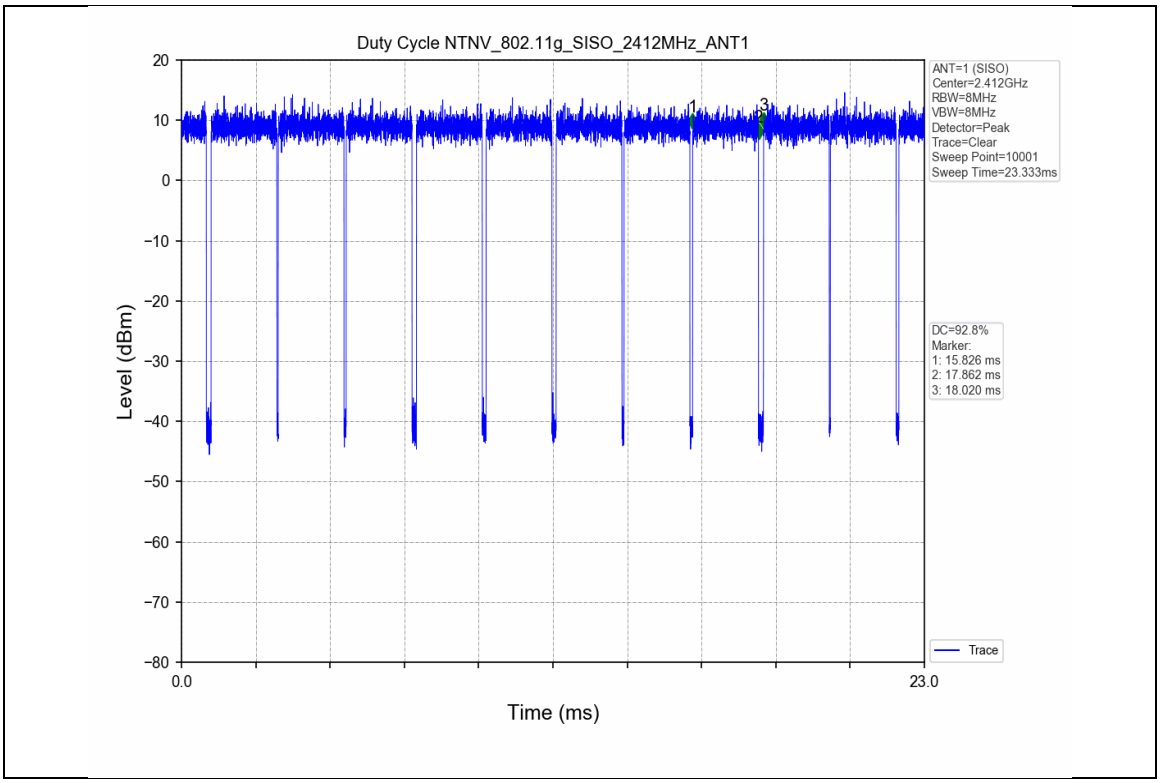
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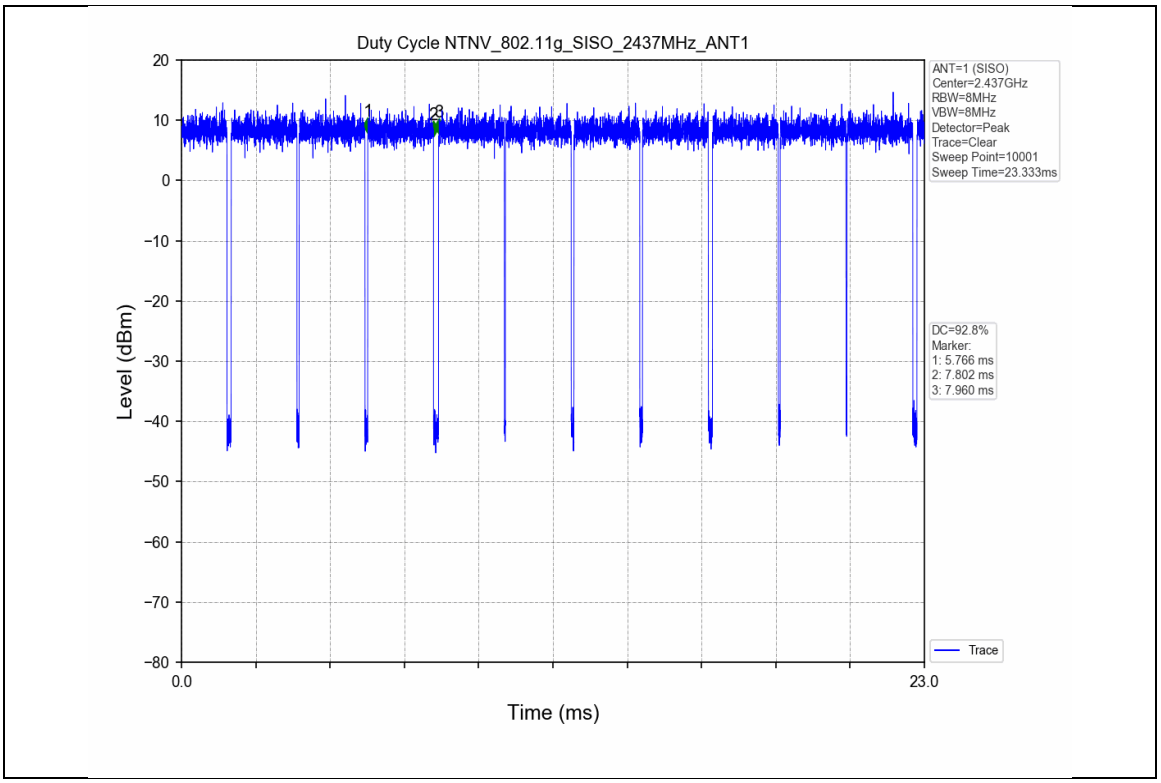


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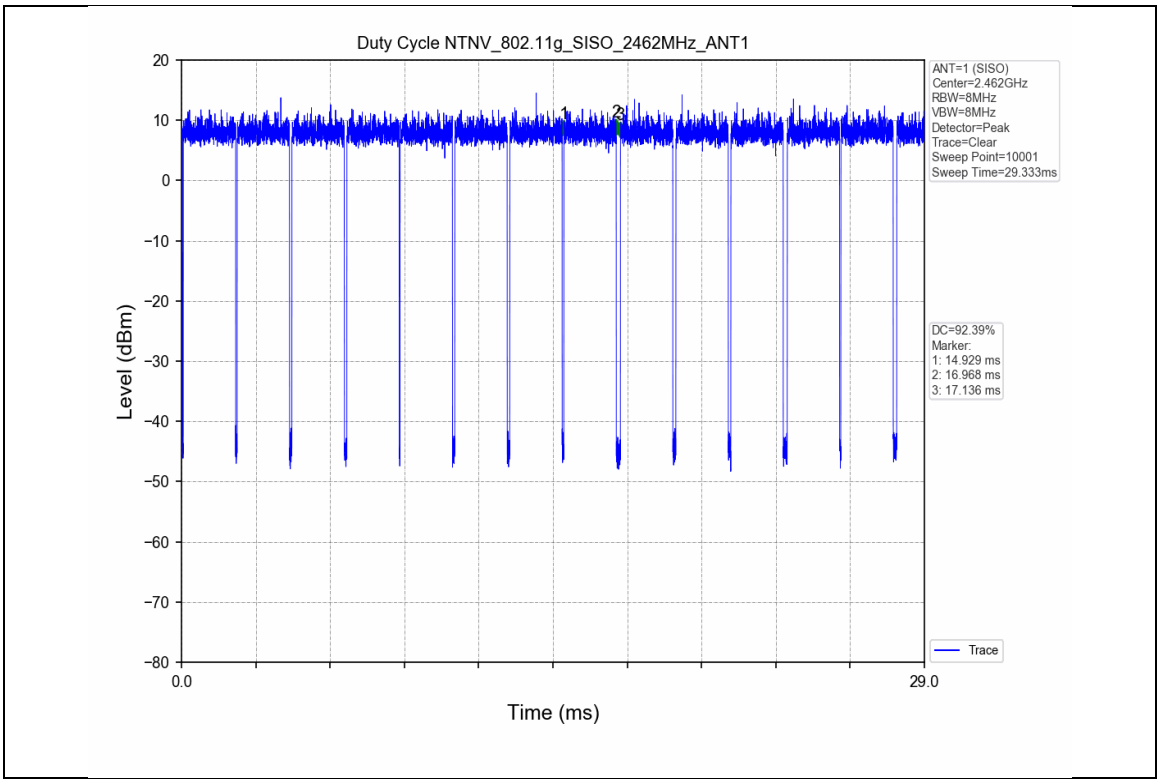
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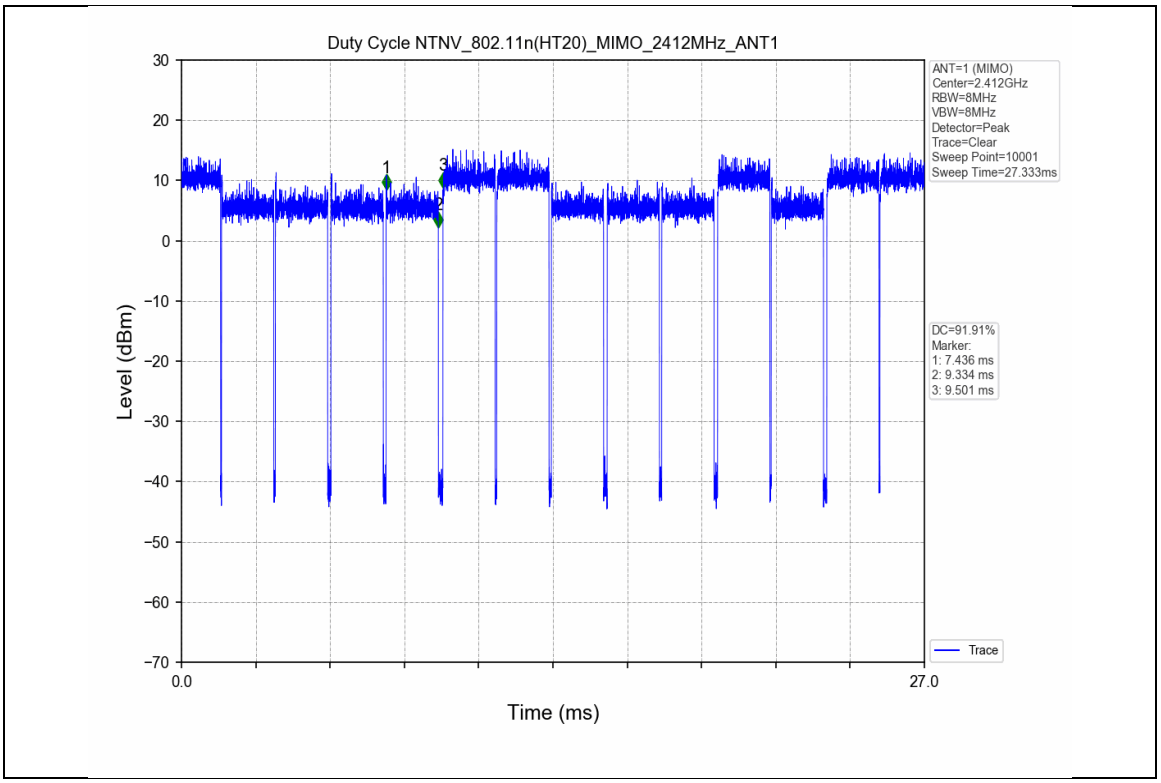


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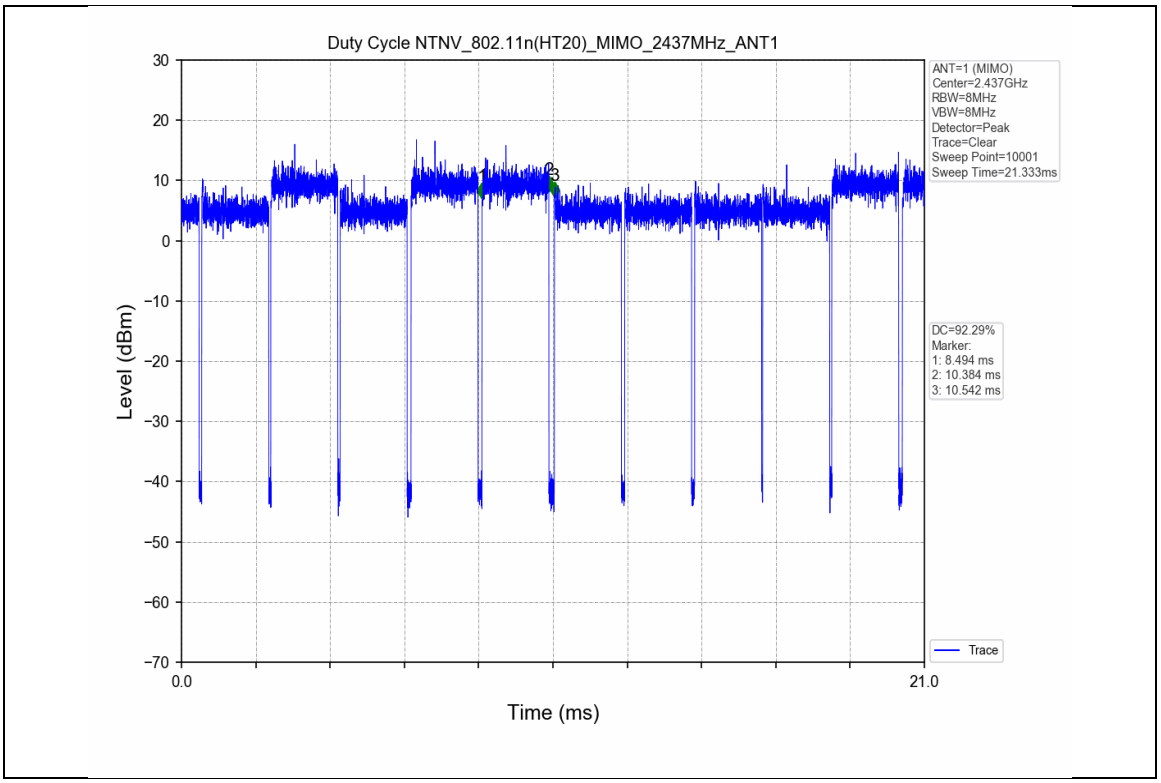
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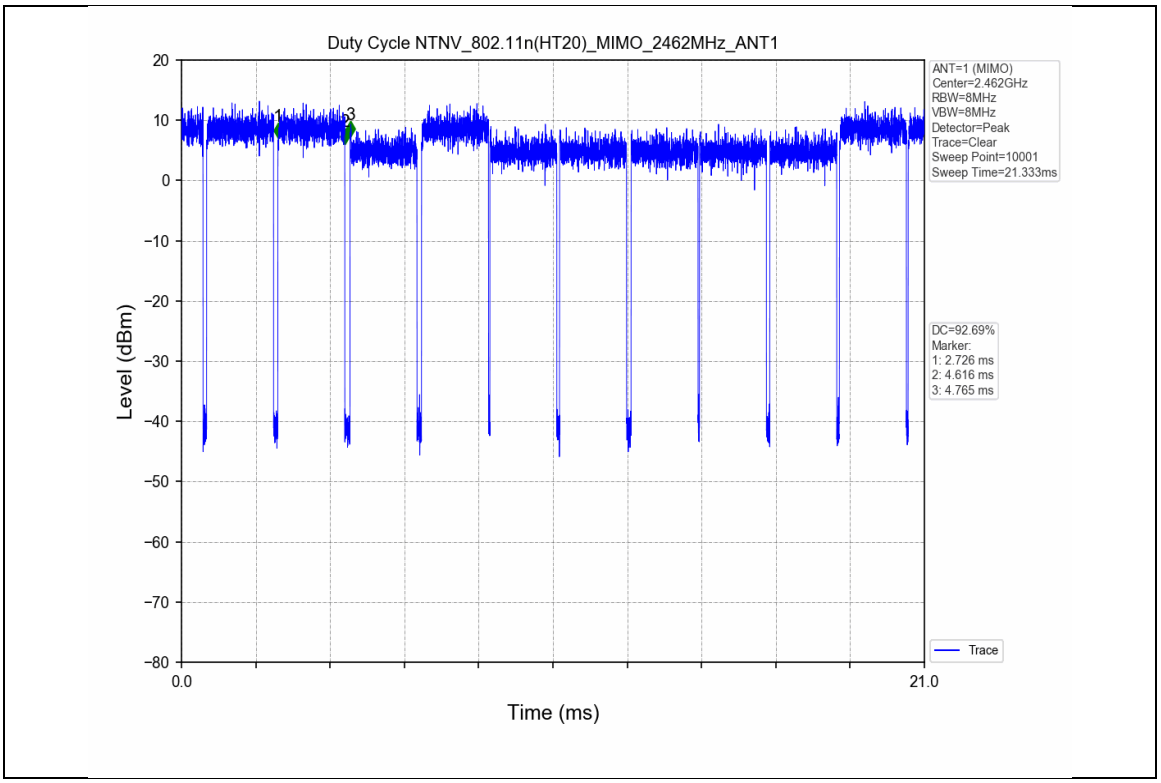
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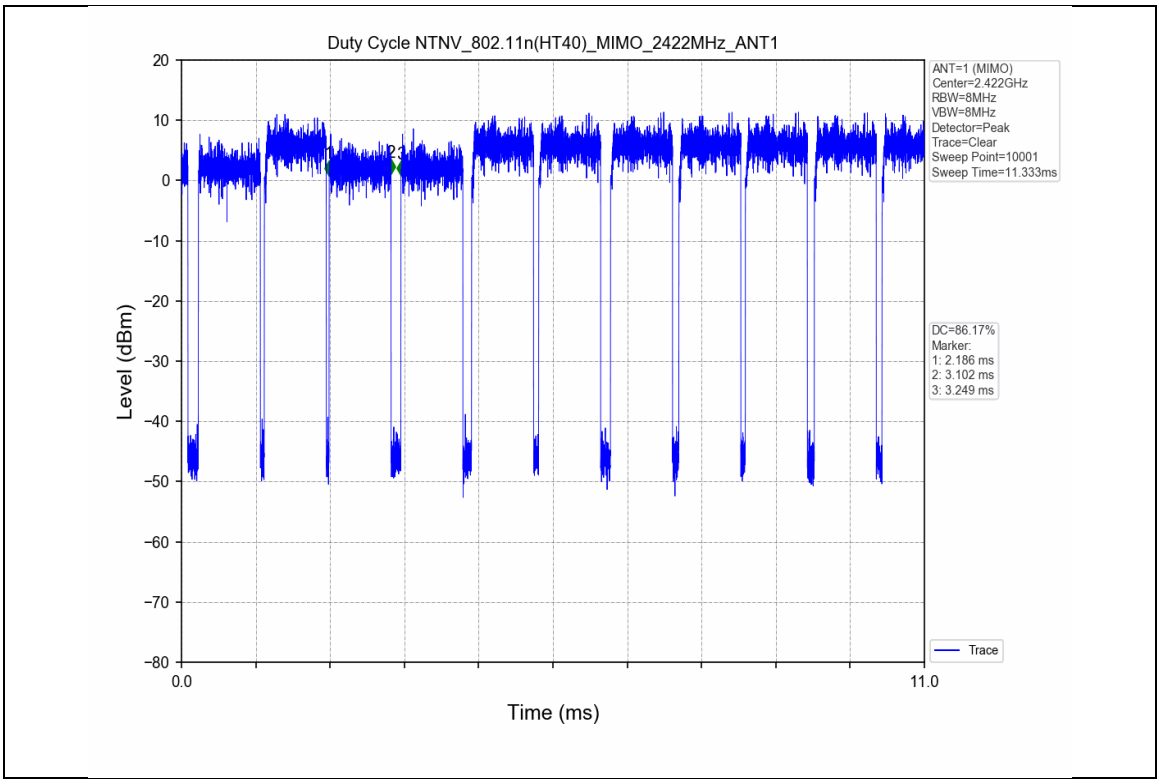


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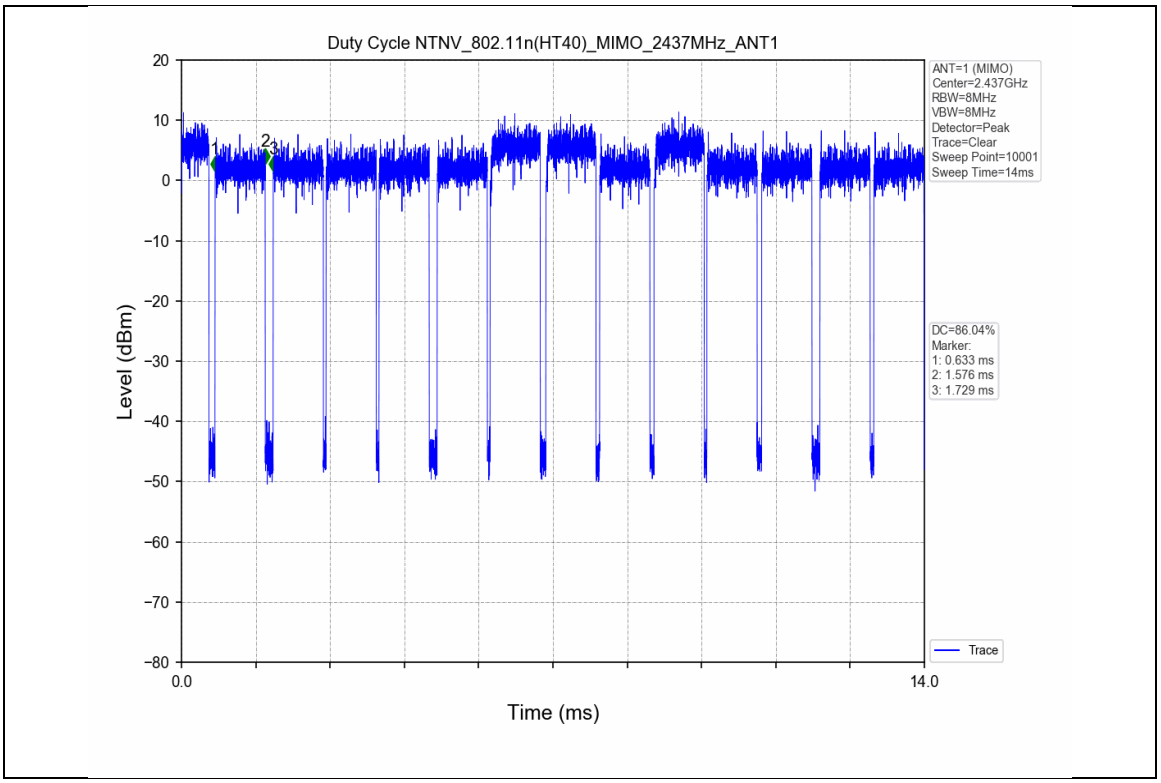


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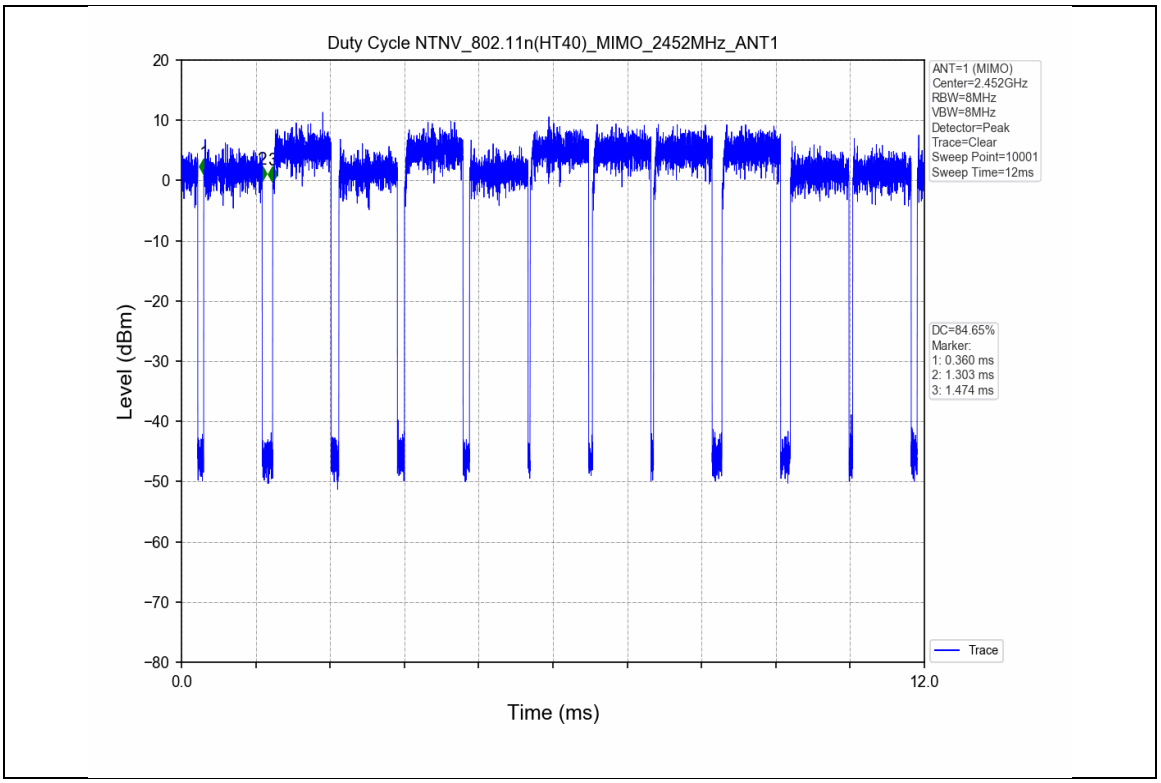
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.113	≥0.5	PASS
	2437	SISO	1	10.086	≥0.5	PASS
	2462	SISO	1	10.076	≥0.5	PASS
802.11g	2412	SISO	1	16.384	≥0.5	PASS
	2437	SISO	1	16.391	≥0.5	PASS
	2462	SISO	1	16.395	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.138	≥0.5	PASS
			2	17.556	≥0.5	PASS
	2437	MIMO	1	17.606	≥0.5	PASS
			2	17.569	≥0.5	PASS
	2462	MIMO	1	17.618	≥0.5	PASS
			2	16.934	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.350	≥0.5	PASS
			2	35.701	≥0.5	PASS
	2437	MIMO	1	35.724	≥0.5	PASS
			2	32.614	≥0.5	PASS
	2452	MIMO	1	35.949	≥0.5	PASS

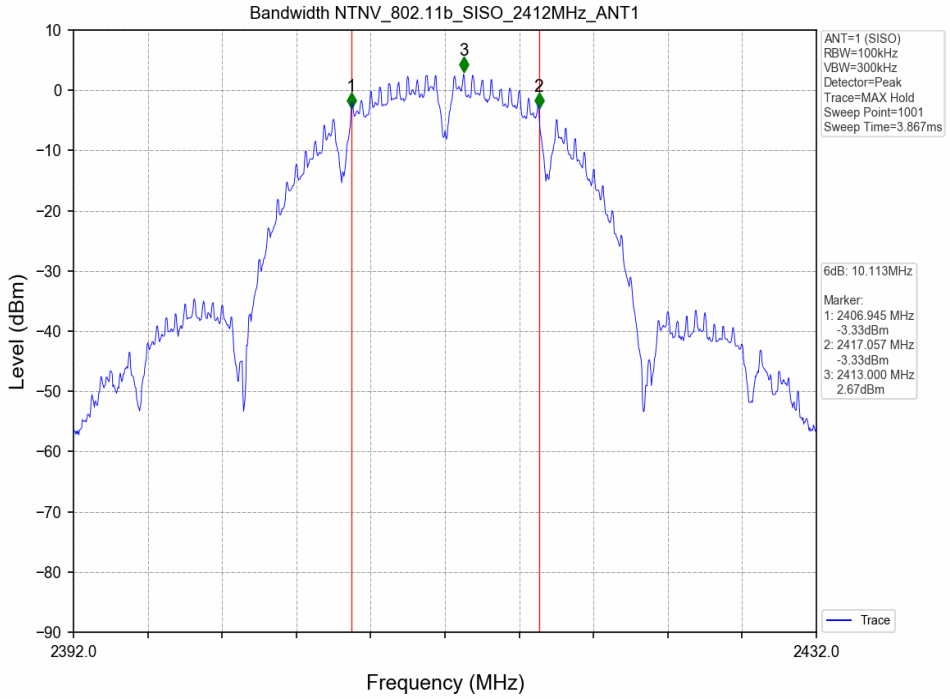
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			2	35.346	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth Test Result (MHz)	
802.11b	2412	SISO	1	15.096	Only for Report Use
	2437	SISO	1	15.075	Only for Report Use
	2462	SISO	1	15.083	Only for Report Use
802.11g	2412	SISO	1	16.849	Only for Report Use
	2437	SISO	1	16.913	Only for Report Use
	2462	SISO	1	16.890	Only for Report Use
802.11n(HT20)	2412	MIMO	1	19.046	Only for Report Use
			2	18.457	Only for Report Use
	2437	MIMO	1	17.974	Only for Report Use
			2	17.927	Only for Report Use
	2462	MIMO	1	17.996	Only for Report Use
			2	17.950	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.090	Only for Report Use
			2	36.054	Only for Report Use
	2437	MIMO	1	36.115	Only for Report Use
			2	36.117	Only for Report Use
	2452	MIMO	1	36.177	Only for Report Use
			2	36.134	Only for Report Use

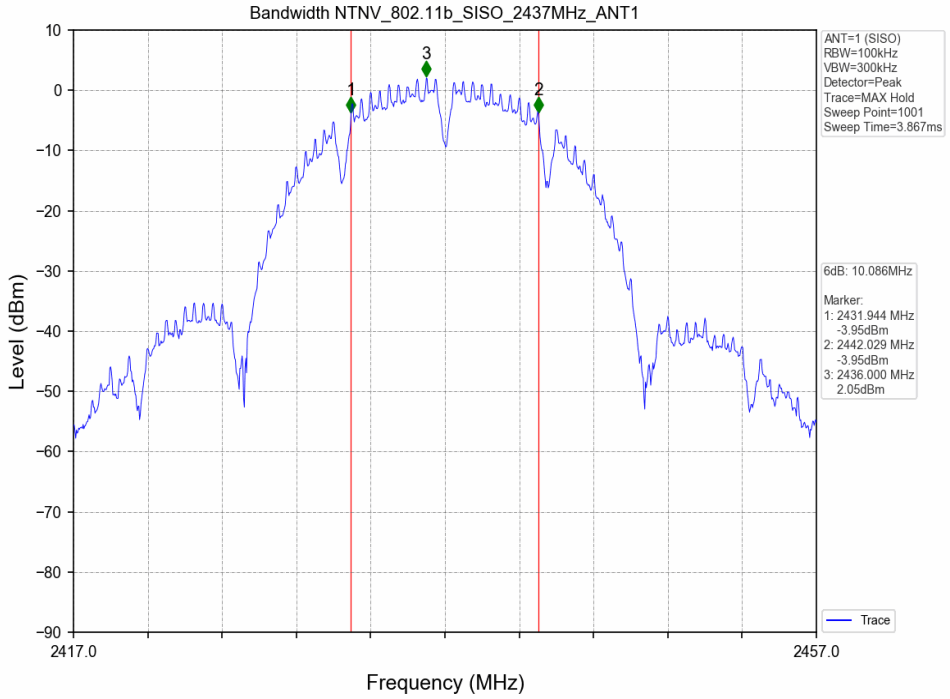
2.2 Test Graph - 6dB Bandwidth

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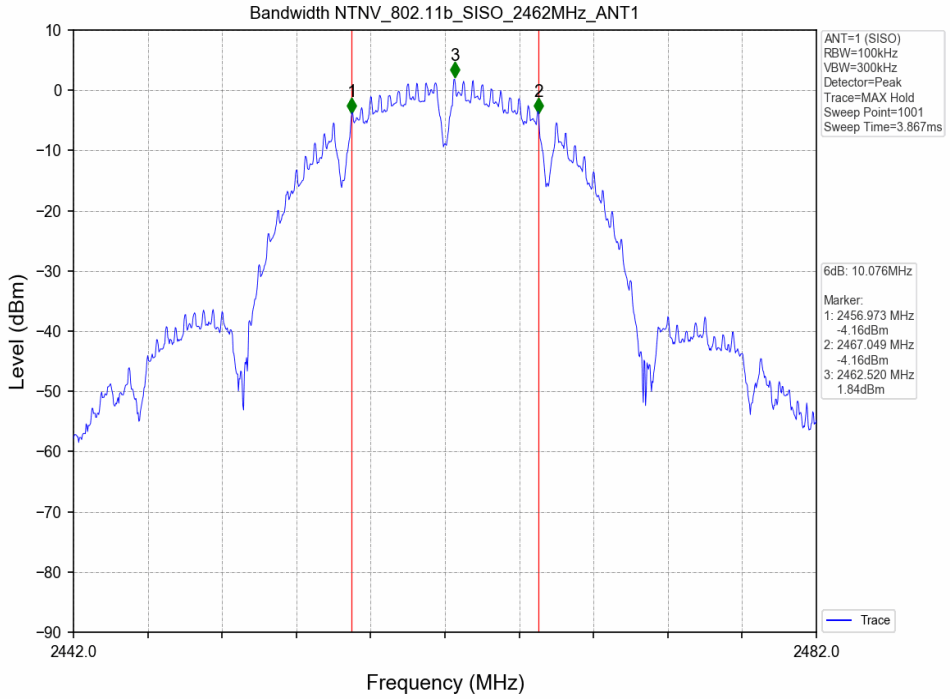
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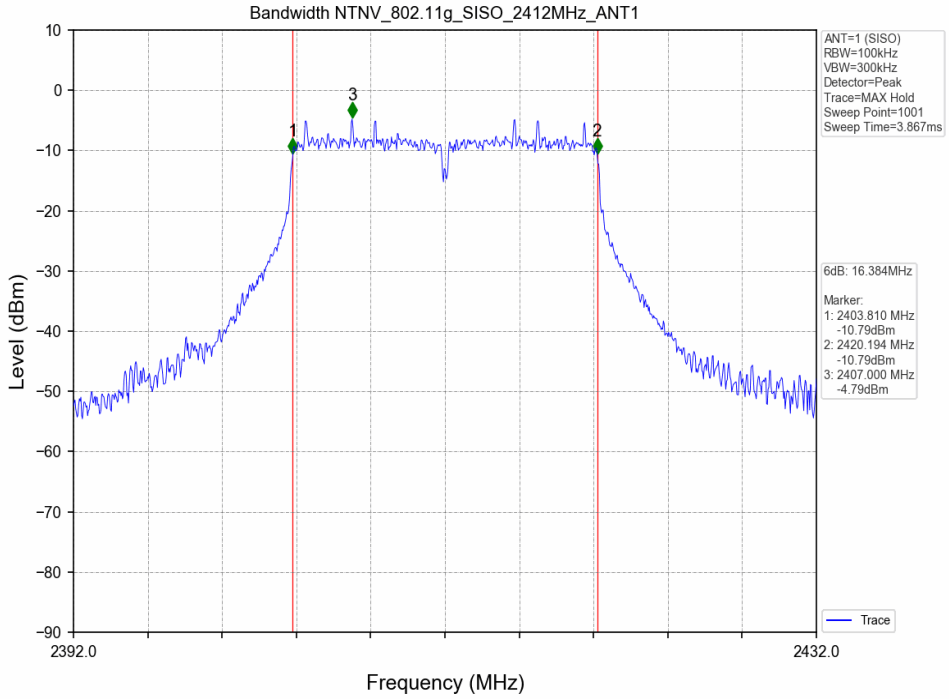
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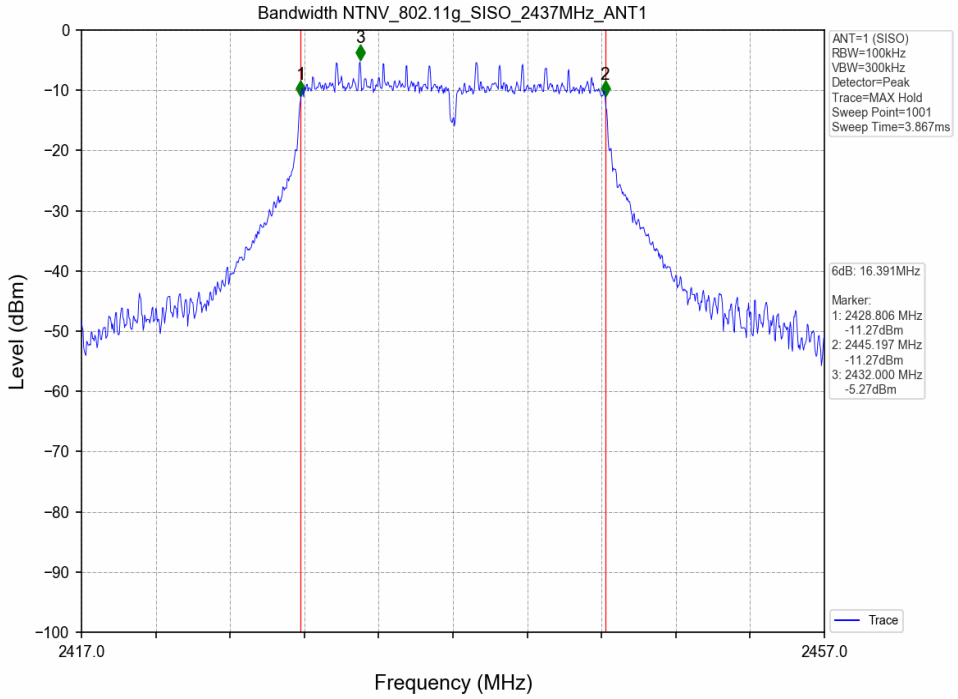
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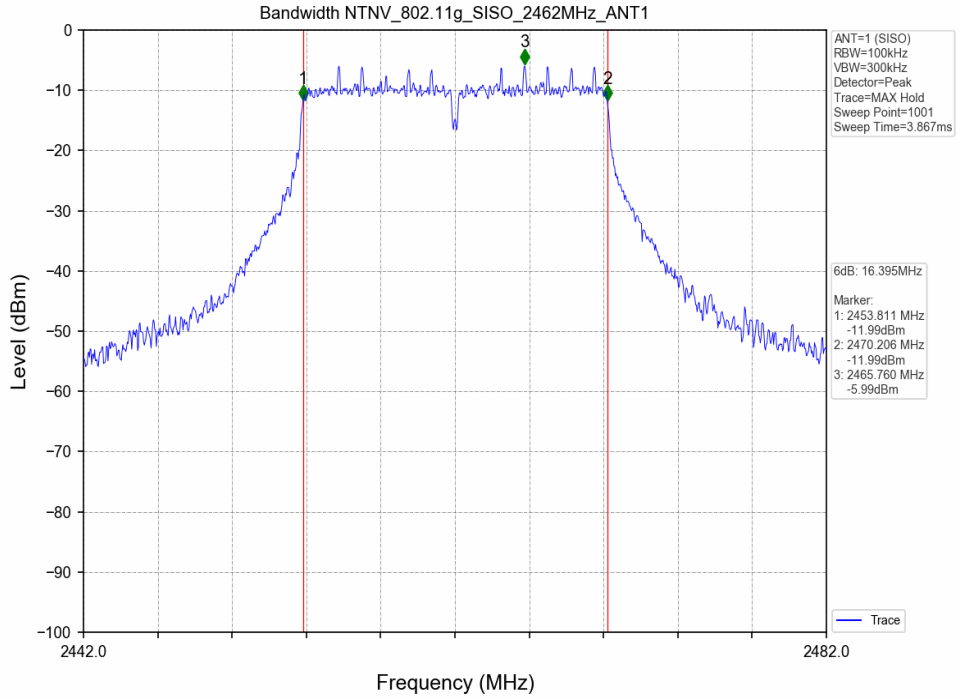
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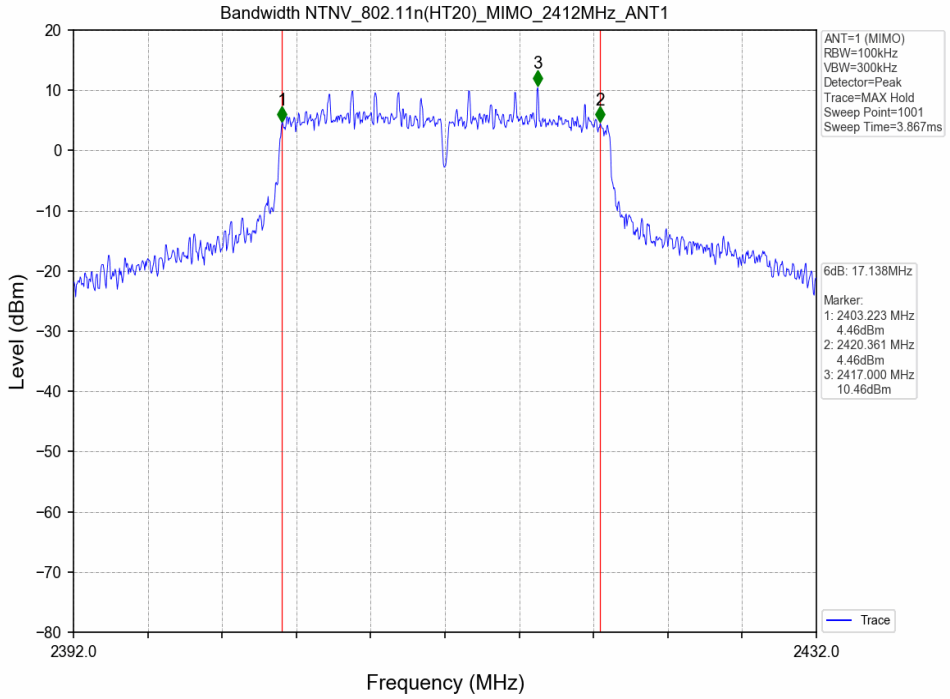
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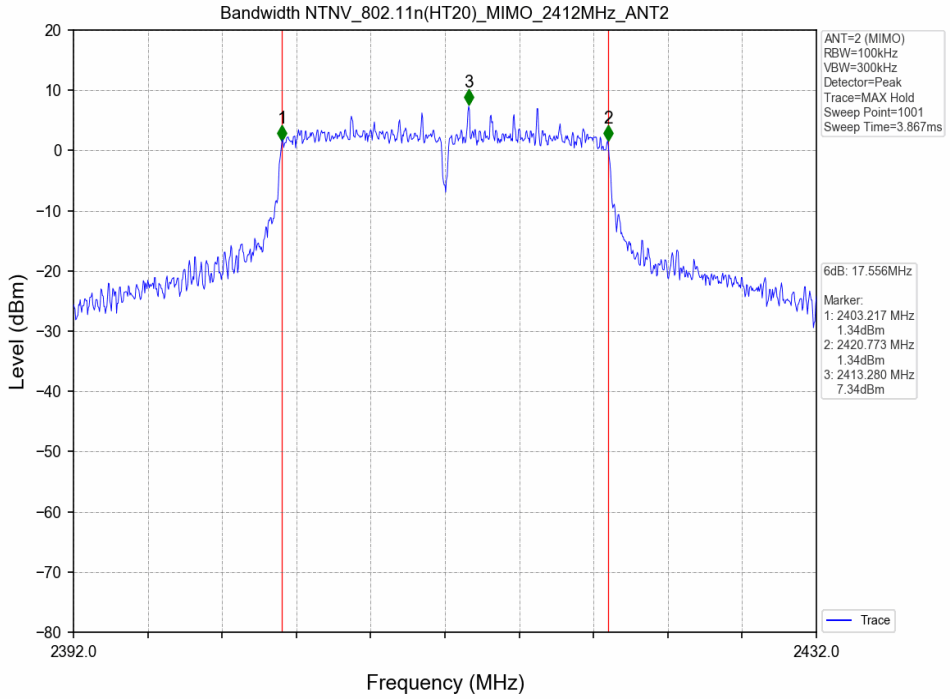
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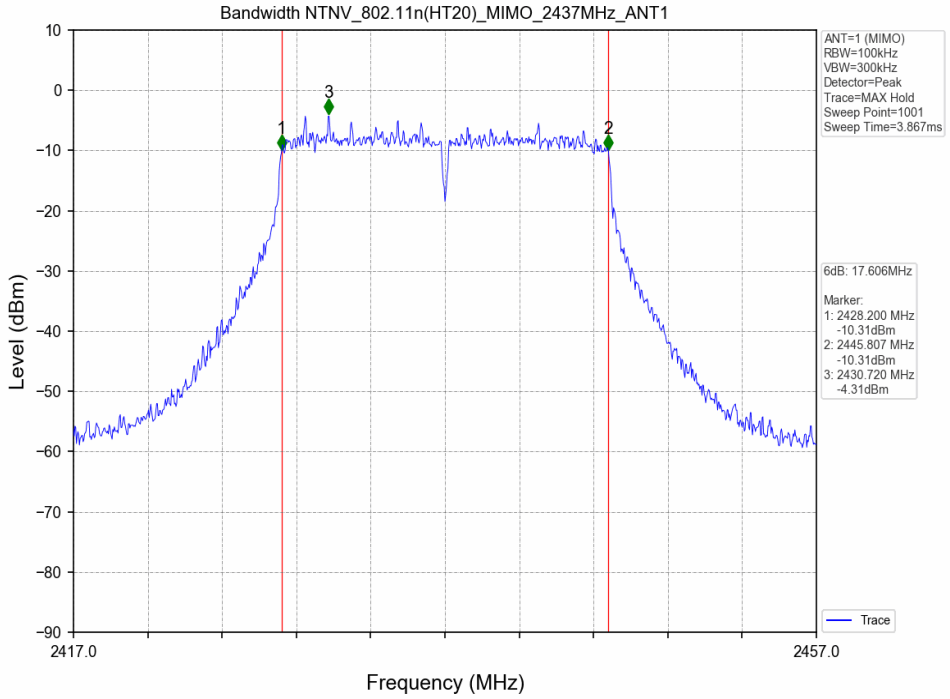


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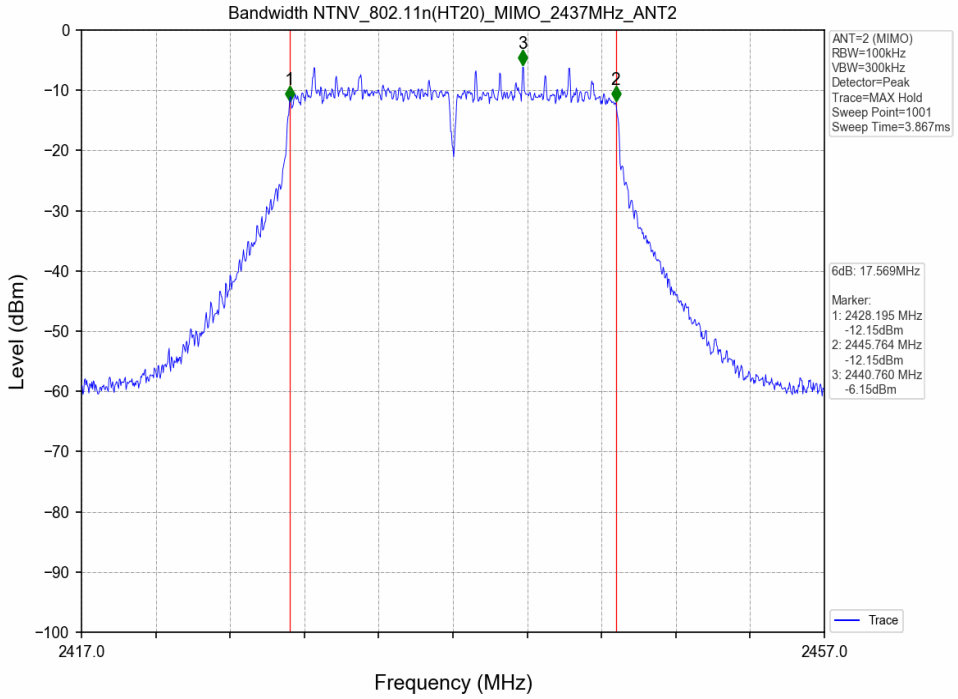
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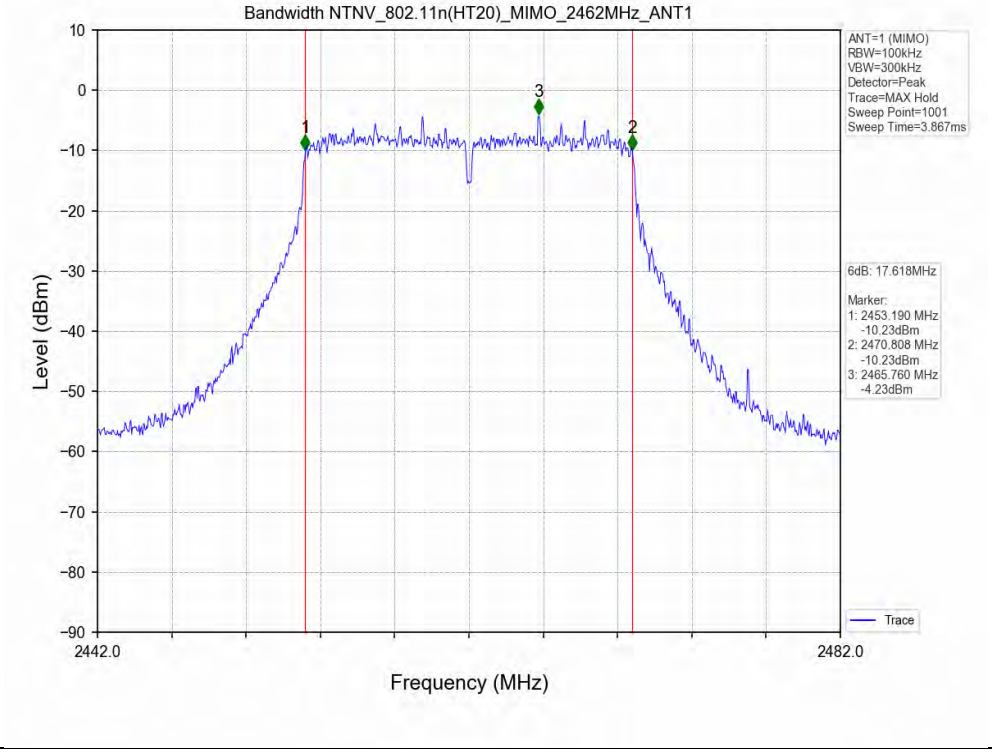
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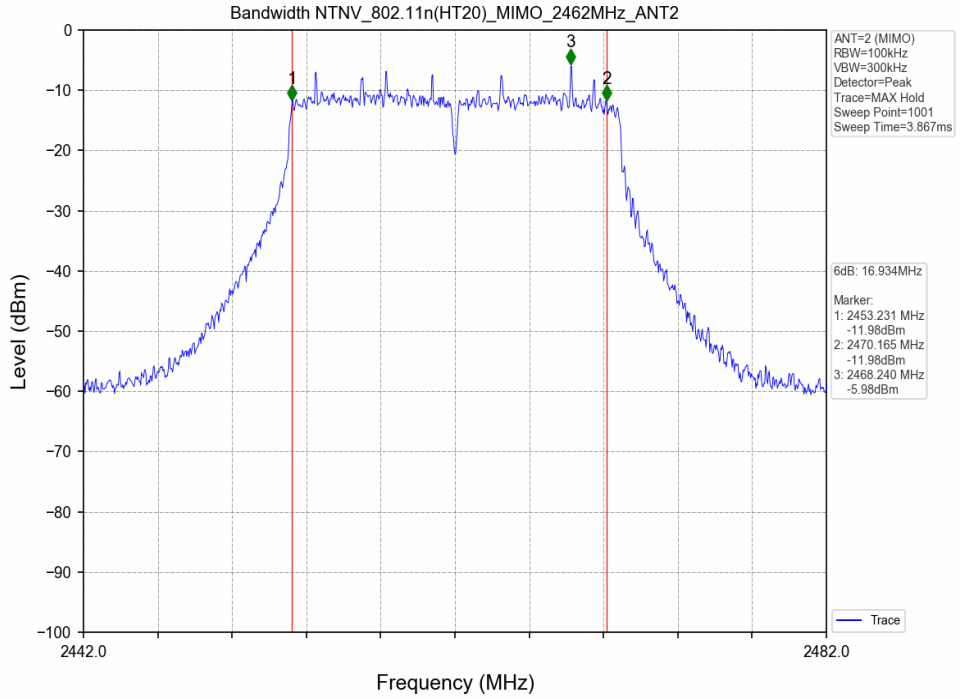


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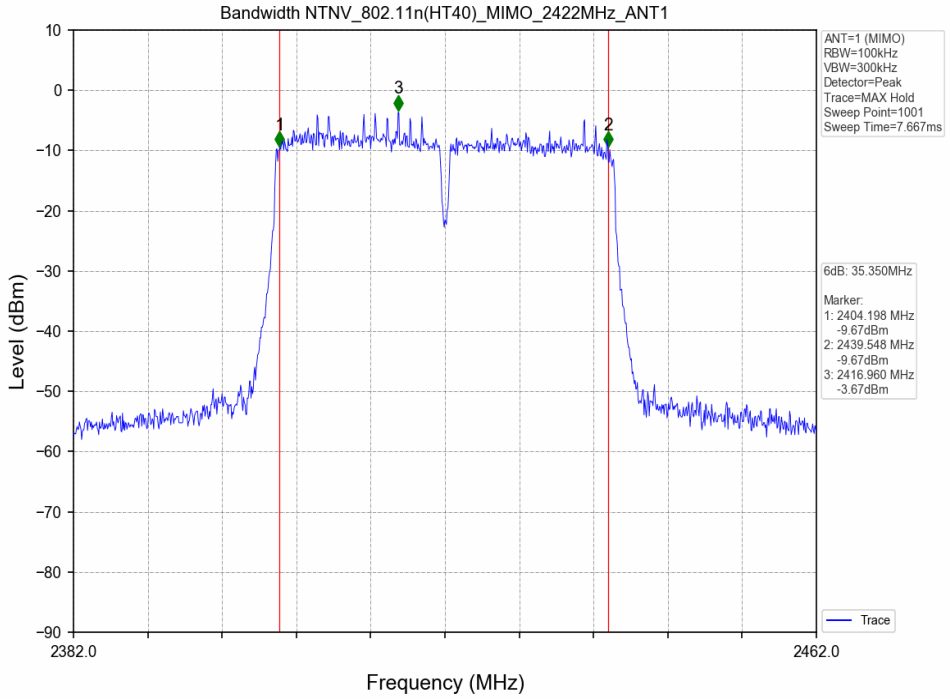
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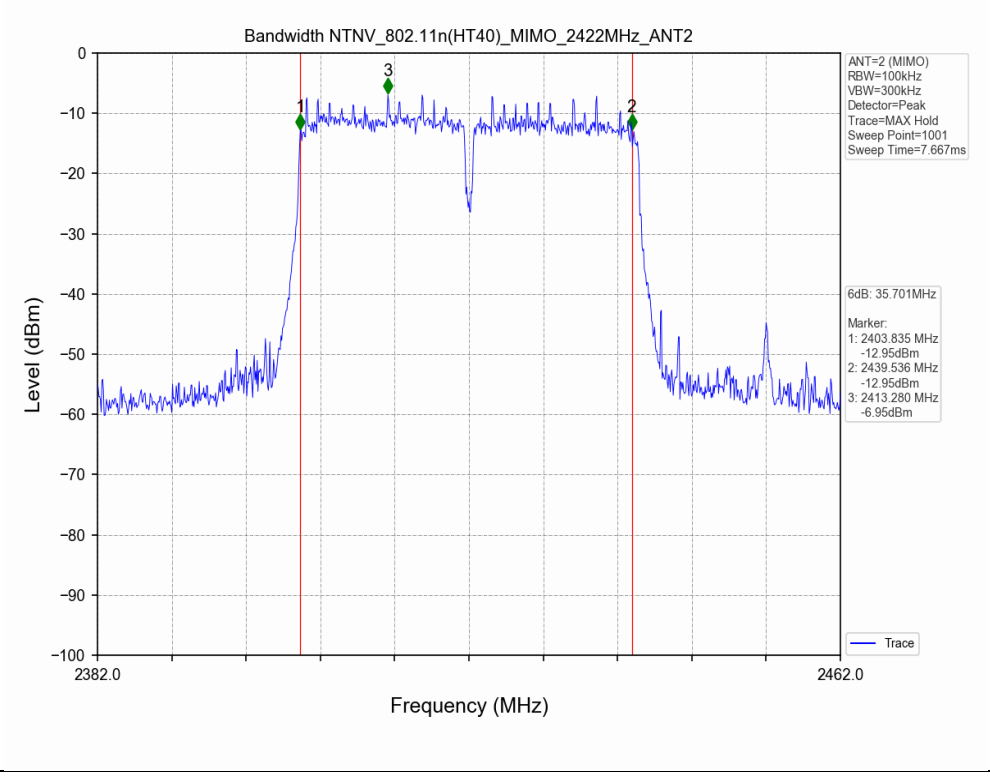
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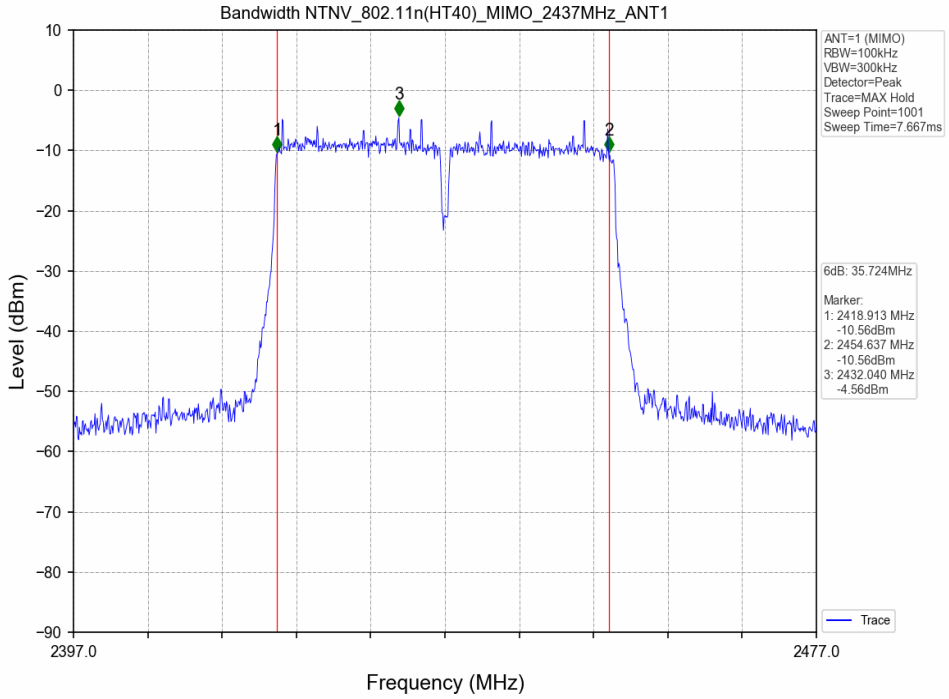
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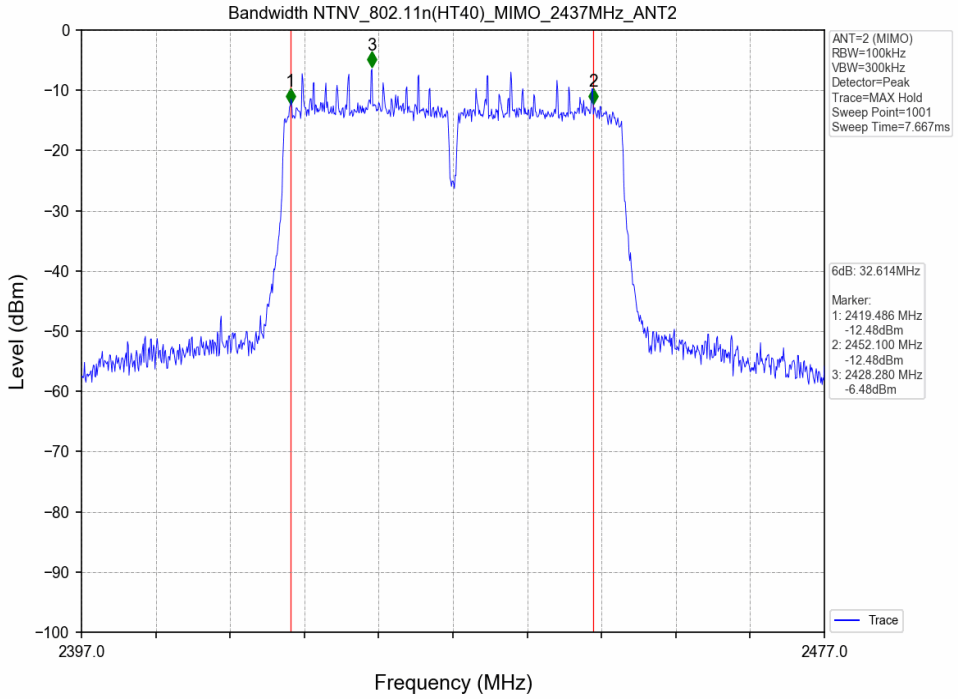
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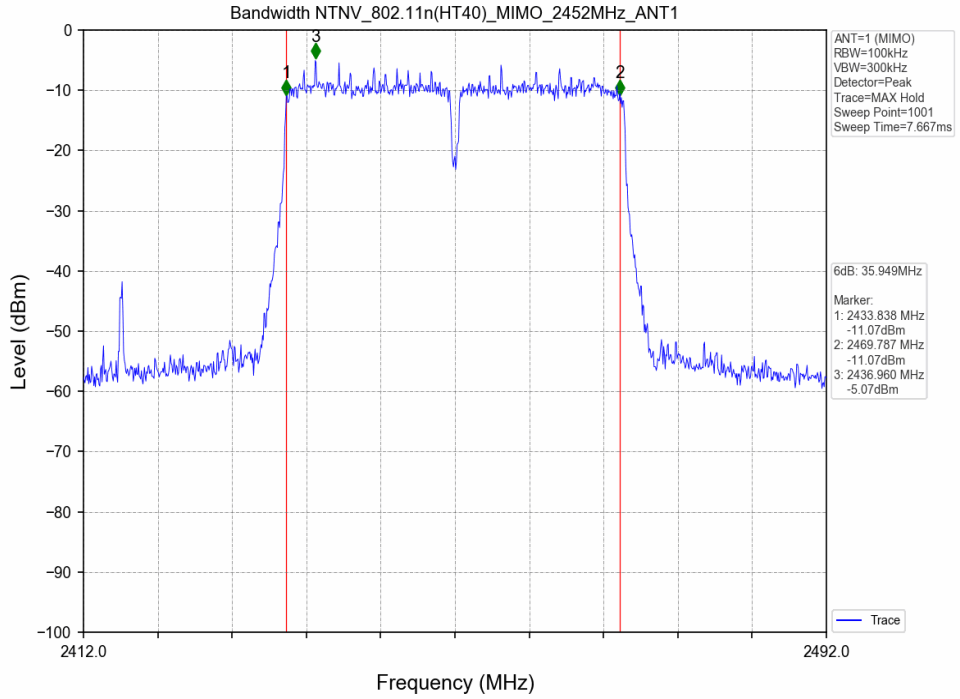
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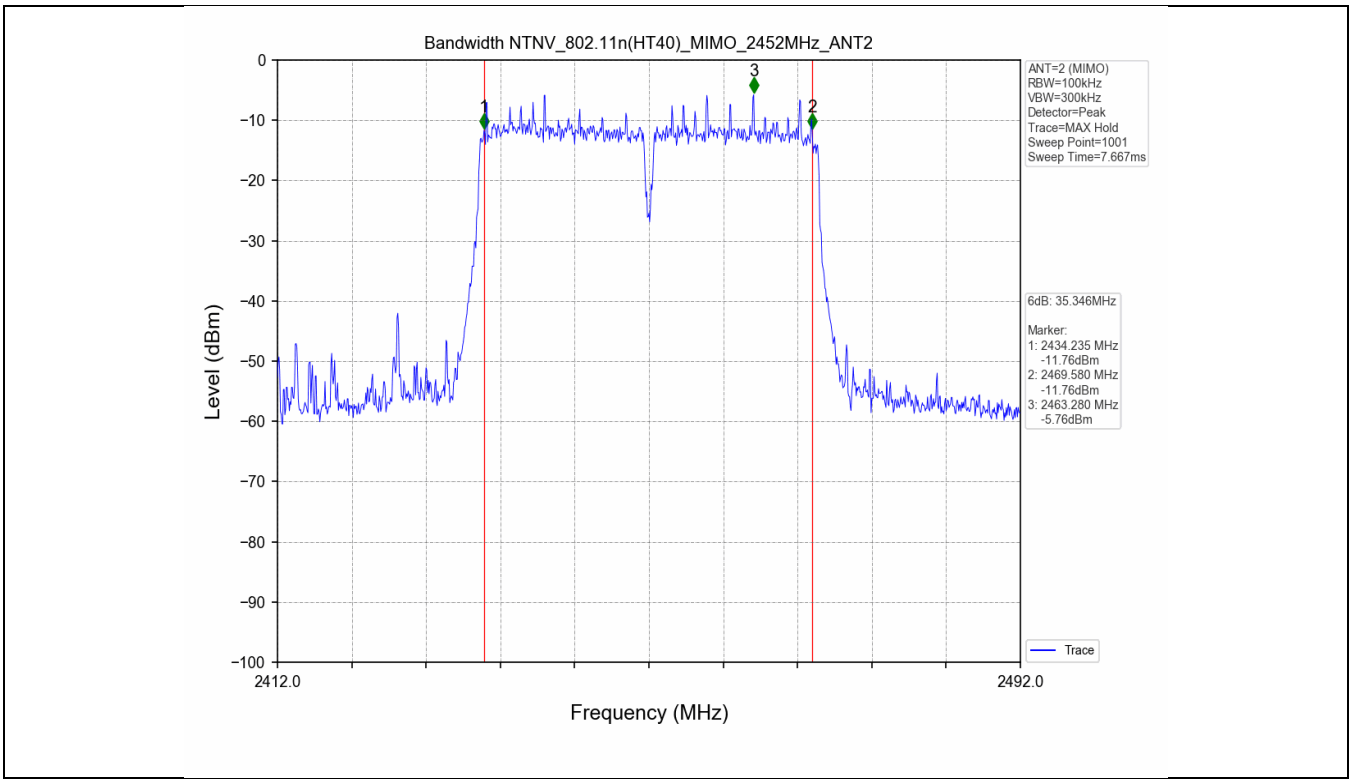
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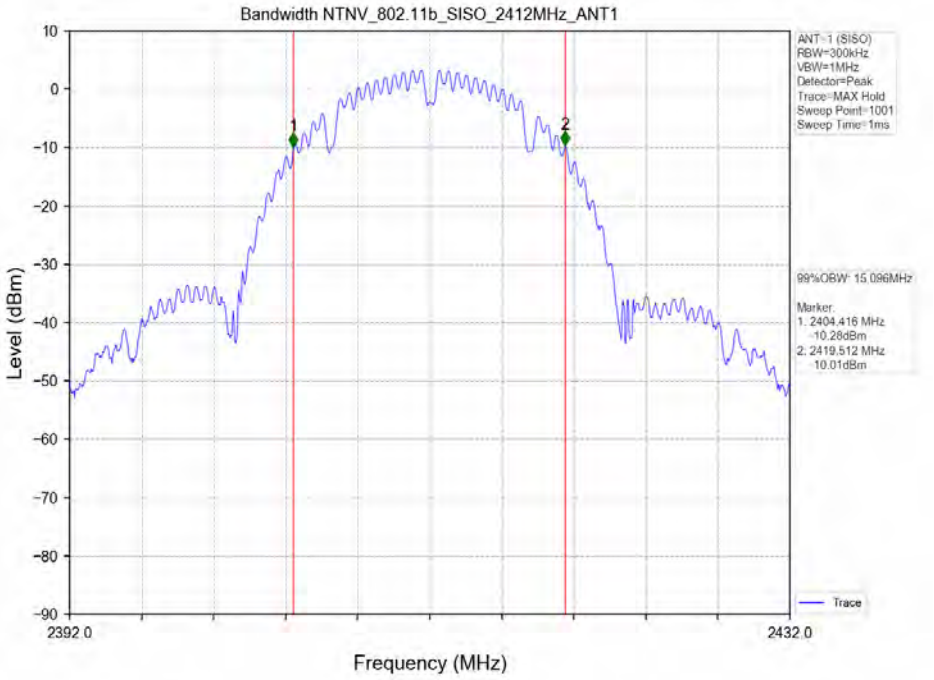
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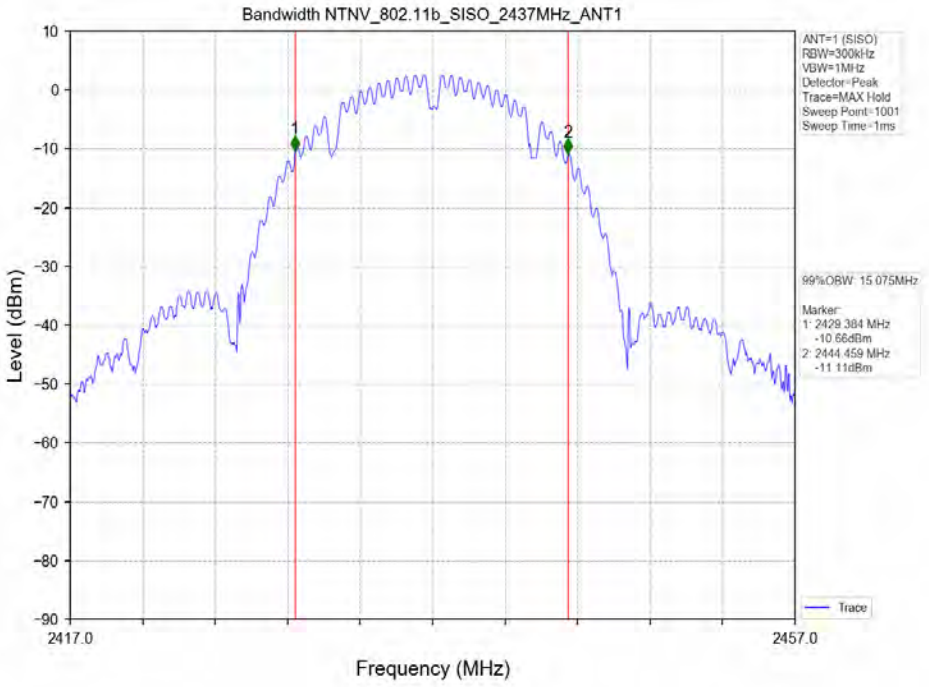
2.3 Test Graph - 99% Occupied Bandwidth

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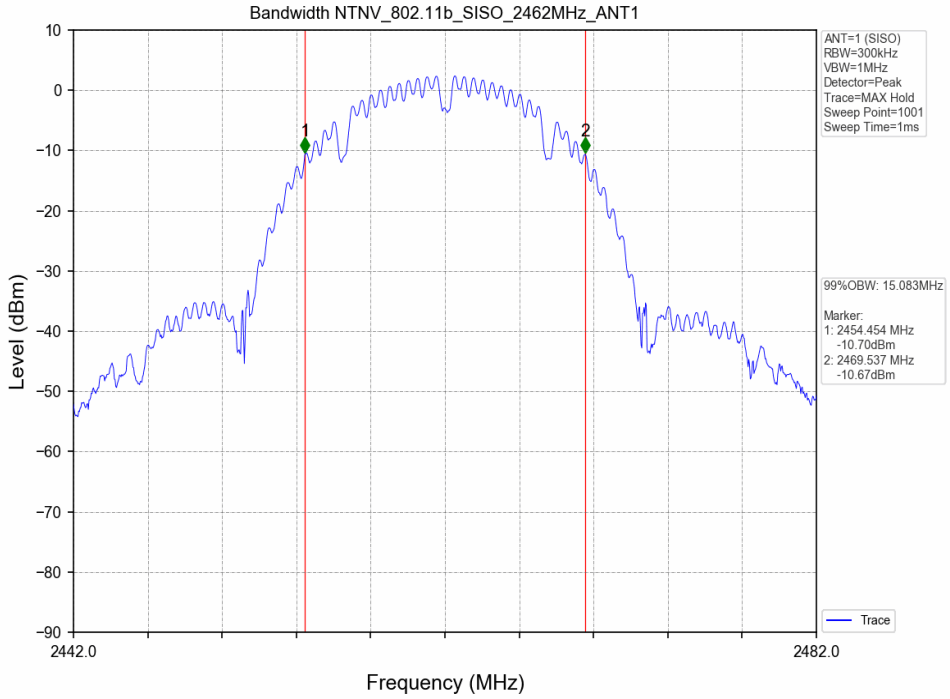
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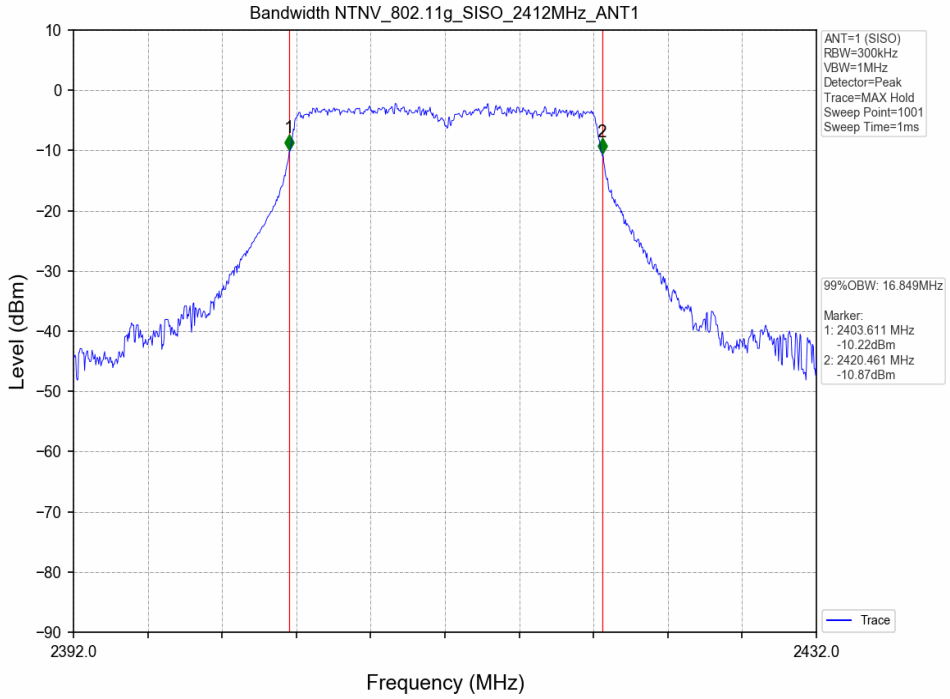
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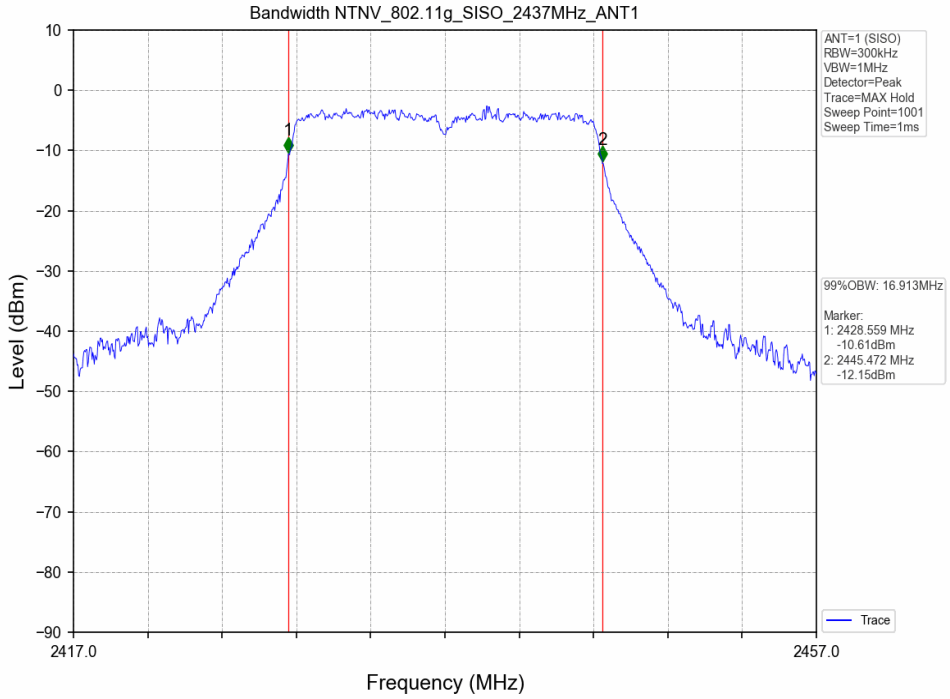
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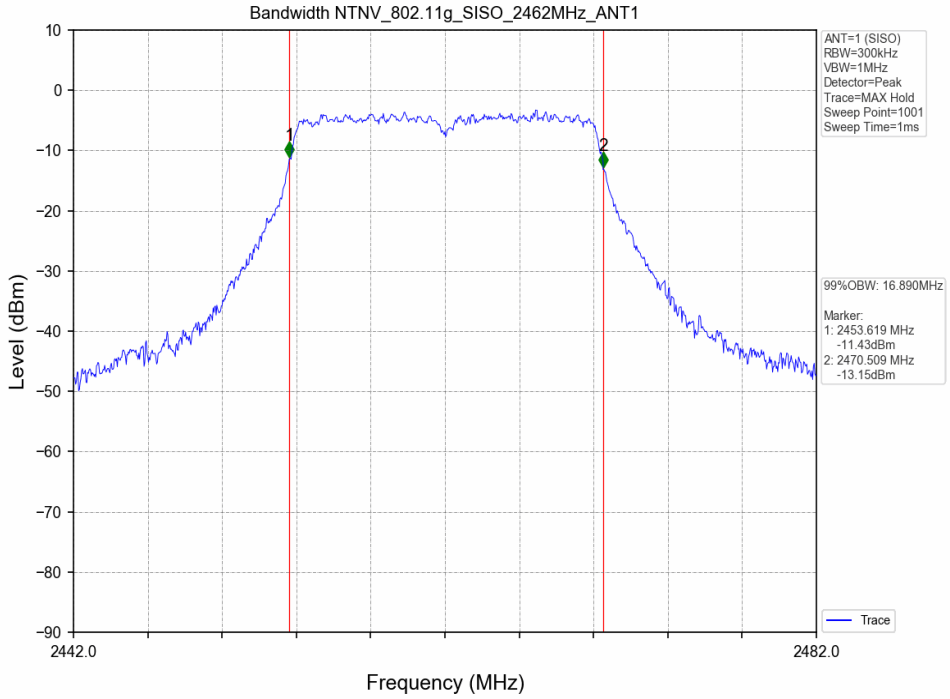
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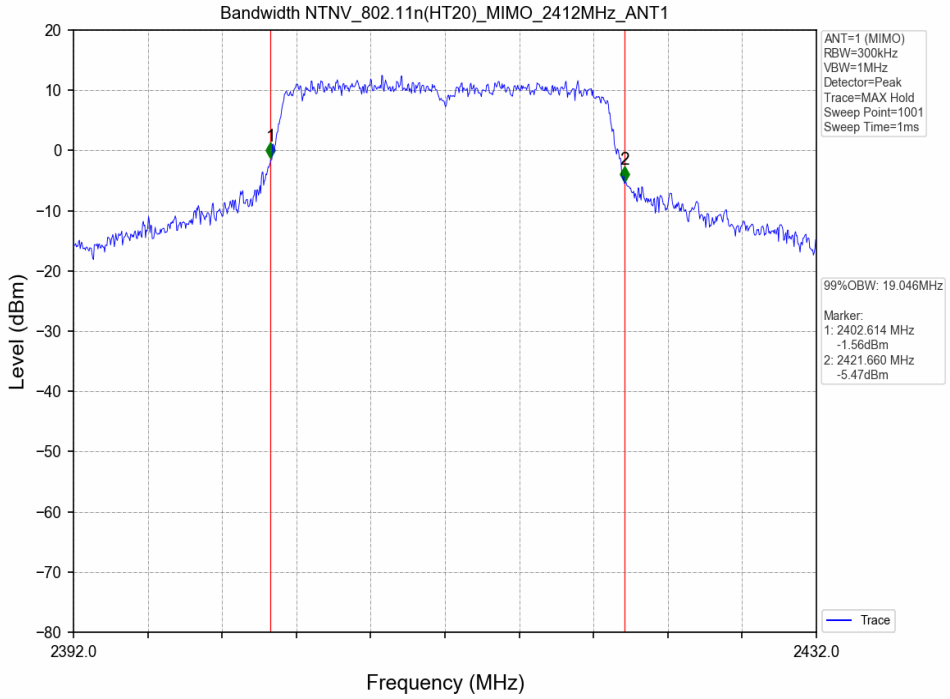
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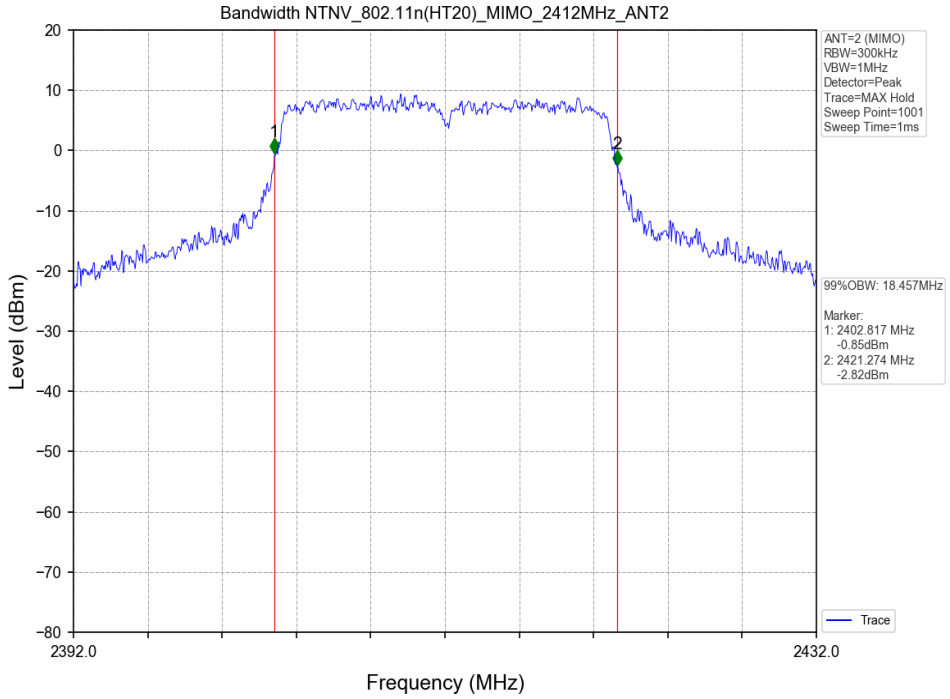


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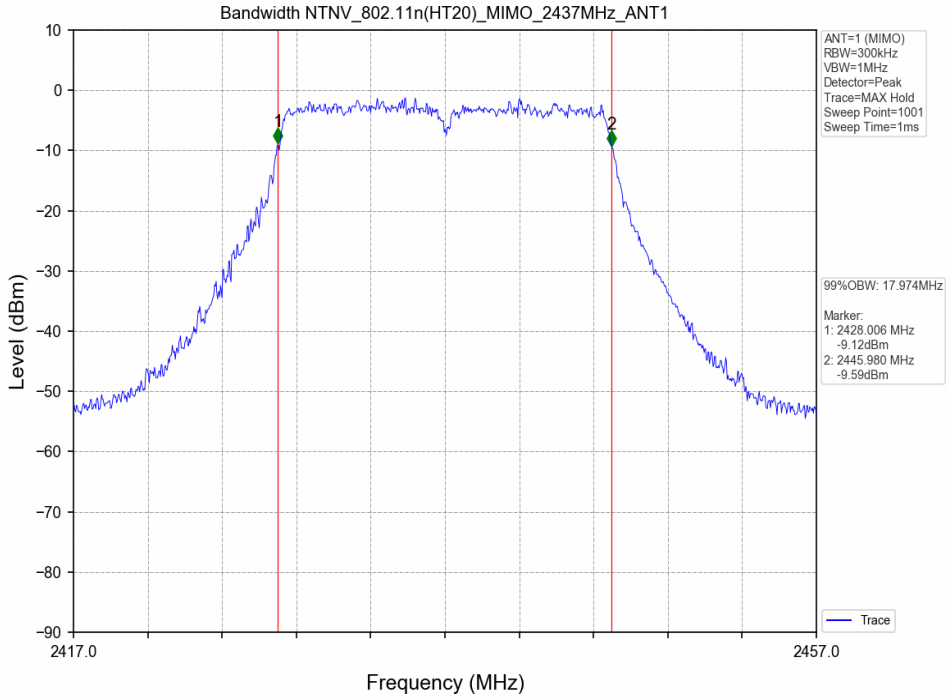


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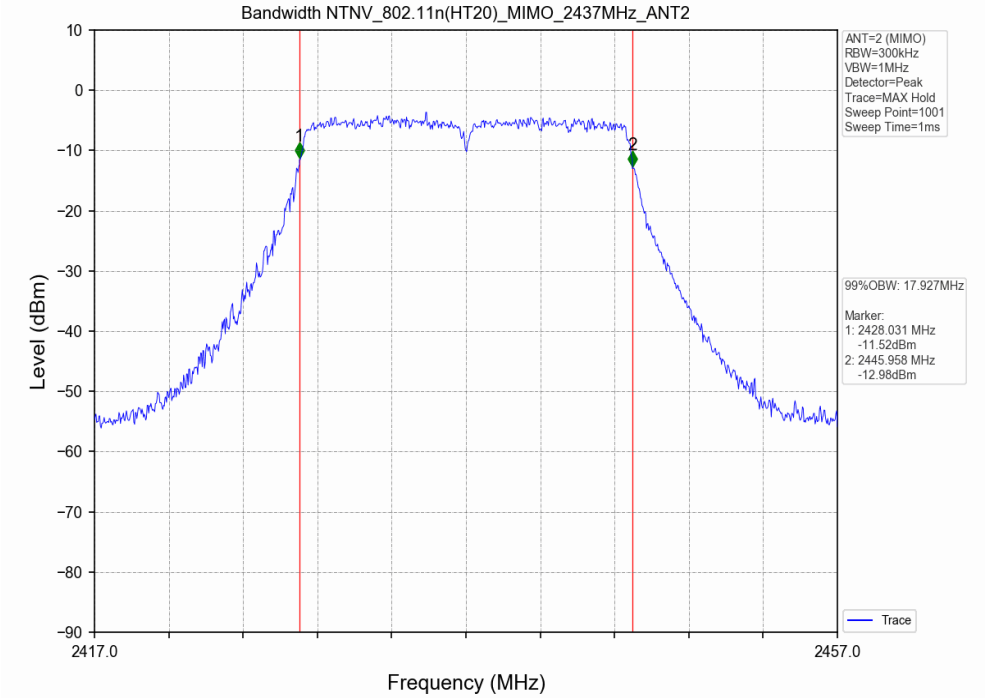
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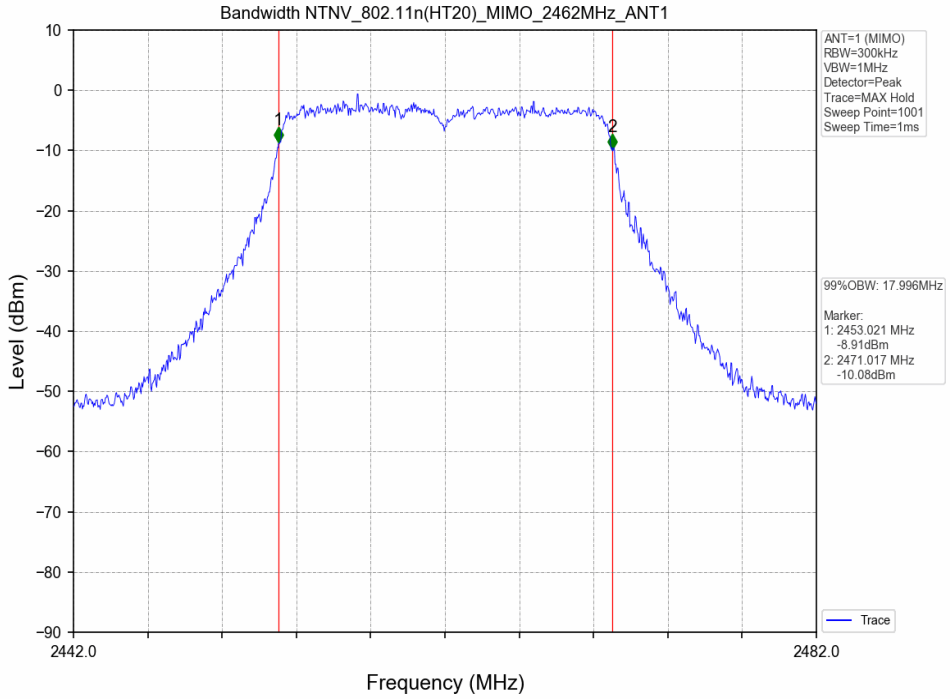
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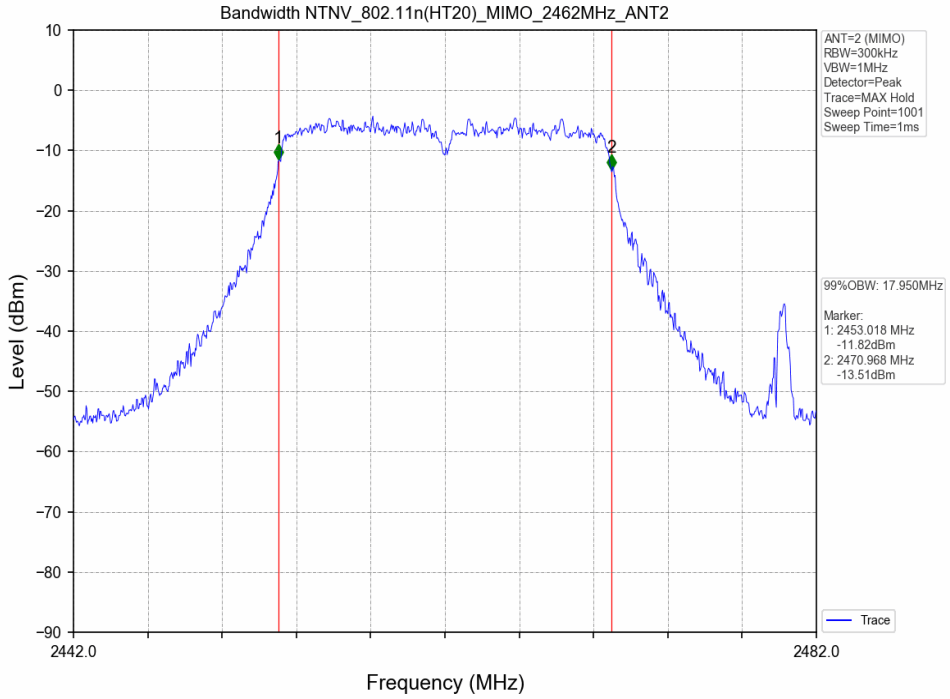
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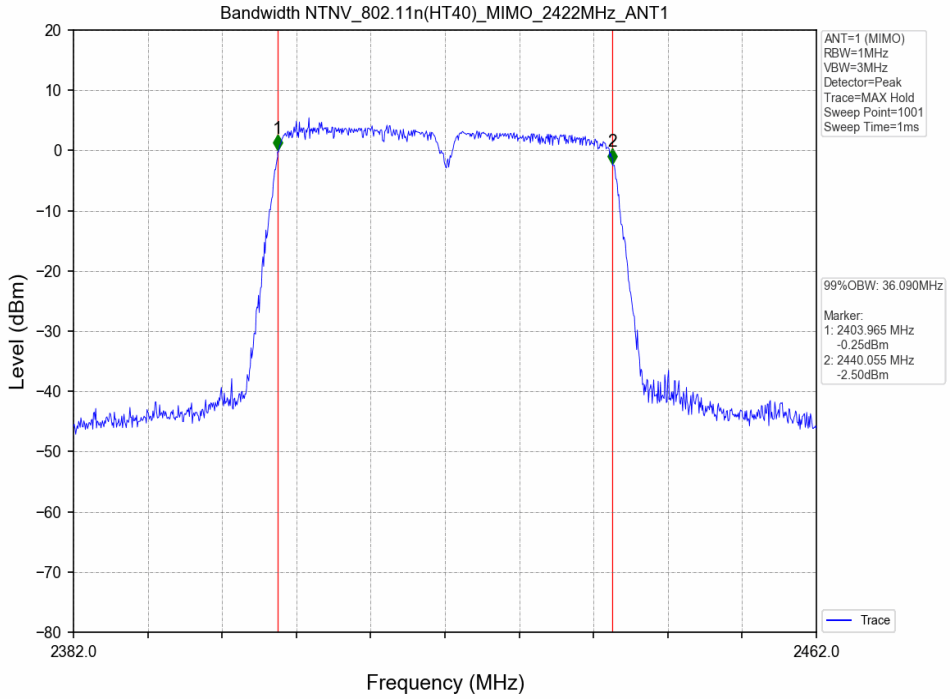
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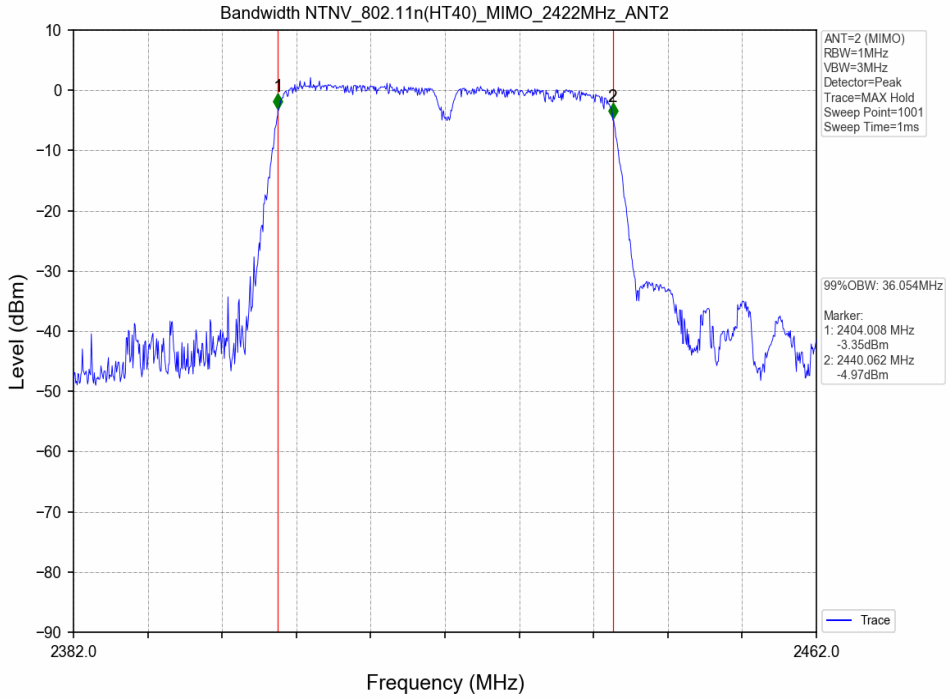
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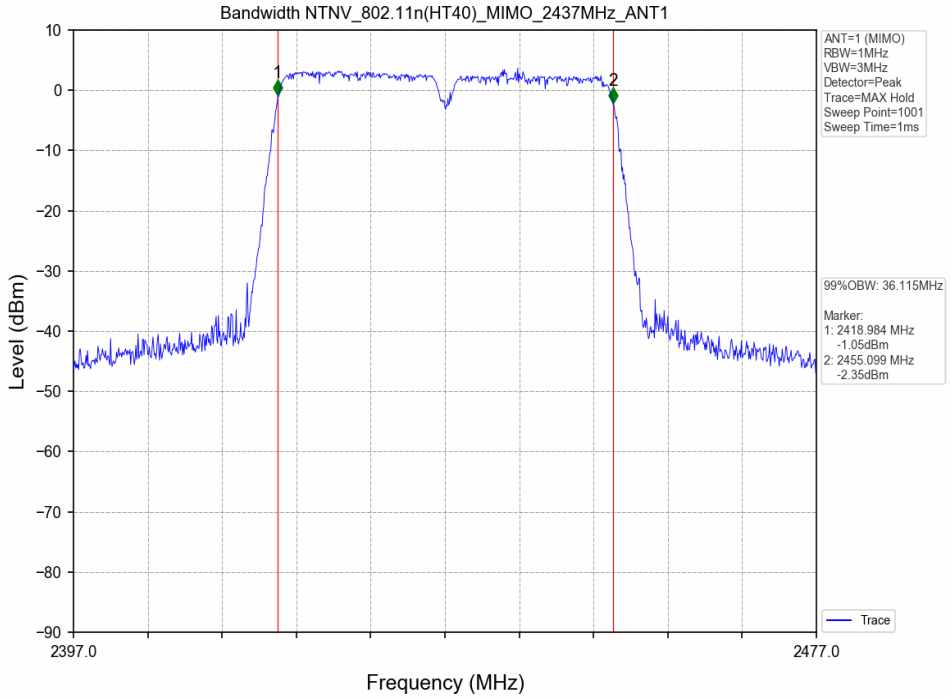
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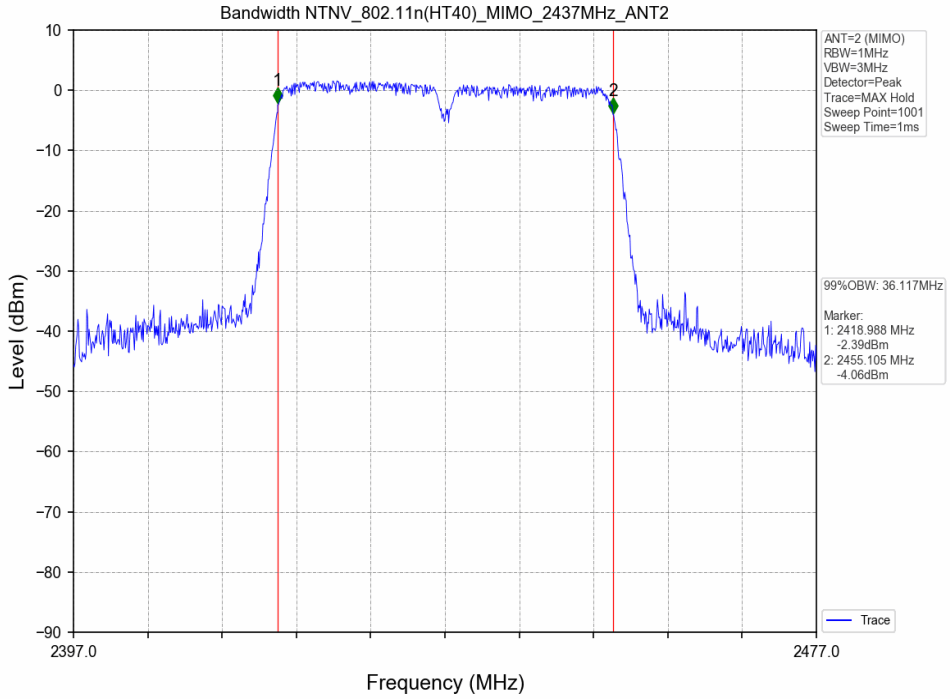
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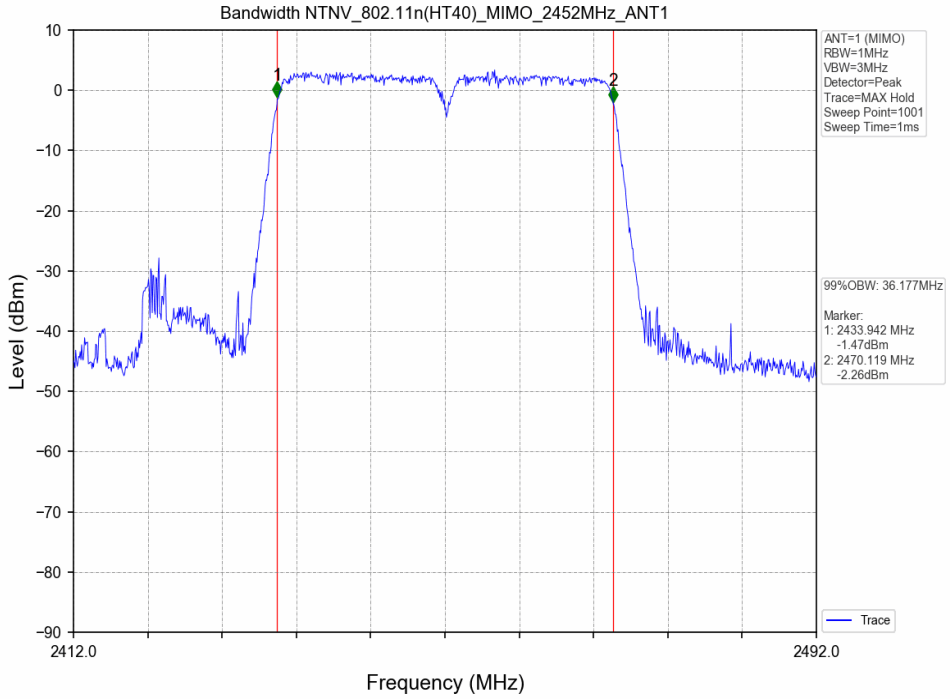
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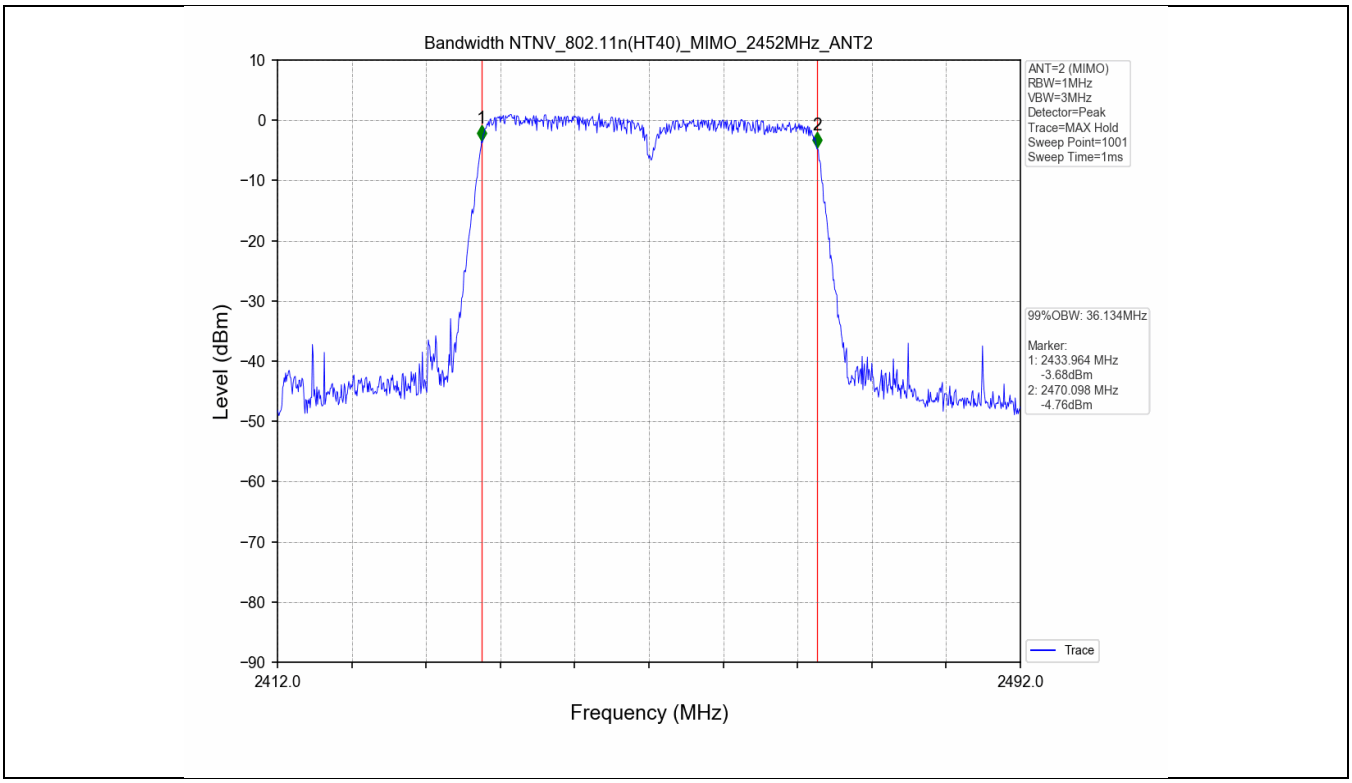
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3. Maximum Conducted Output Power

3.1 Test Result

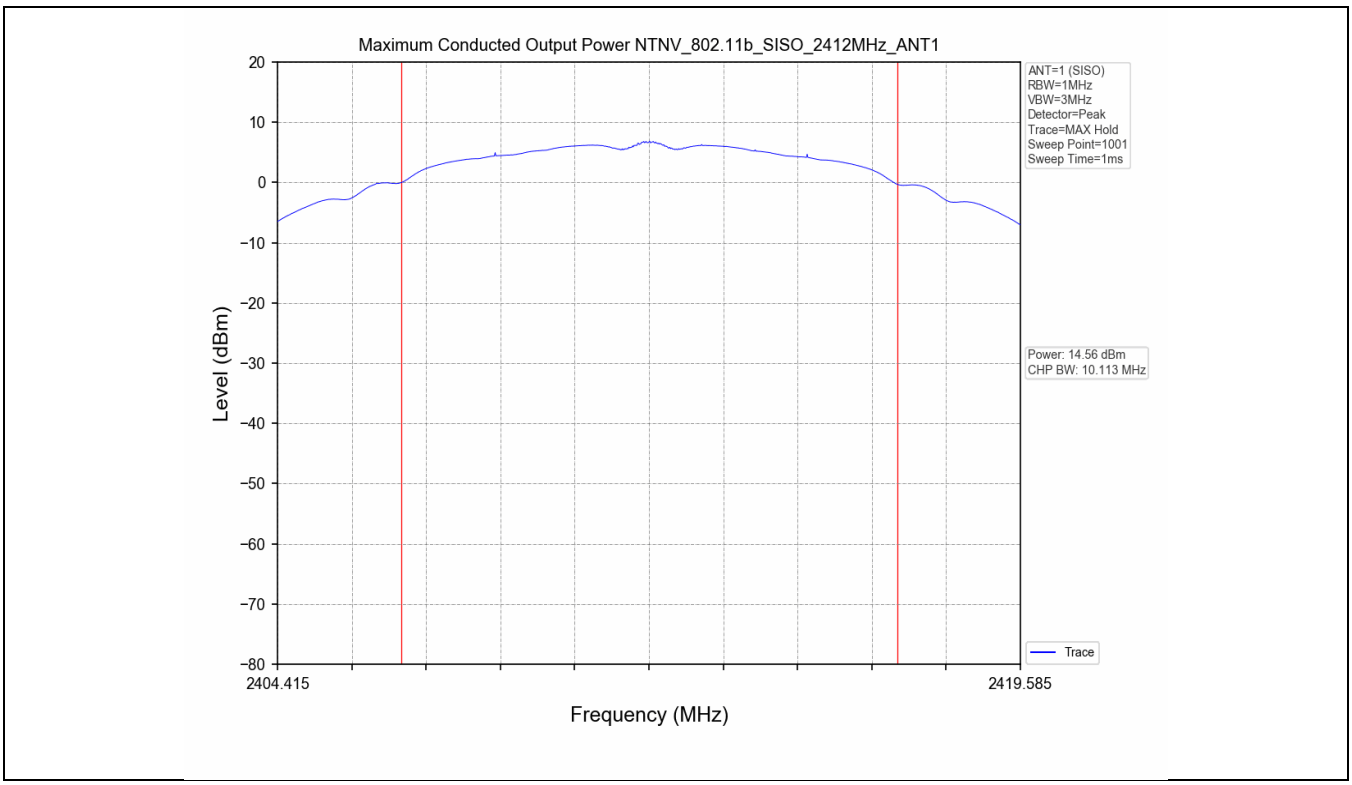
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	14.56	30	PASS
	2437	SISO	13.89	30	PASS
	2462	SISO	13.66	30	PASS
802.11g	2412	SISO	14.25	30	PASS
	2437	SISO	13.60	30	PASS
	2462	SISO	13.09	30	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11n(HT20)	2412	MIMO	15.76	13.10	17.64	30	PASS
	2437	MIMO	15.09	12.65	17.05	30	PASS
	2462	MIMO	14.67	11.53	16.39	30	PASS
802.11n(HT40)	2422	MIMO	17.13	12.83	18.50	30	PASS
	2437	MIMO	16.42	12.53	17.91	30	PASS

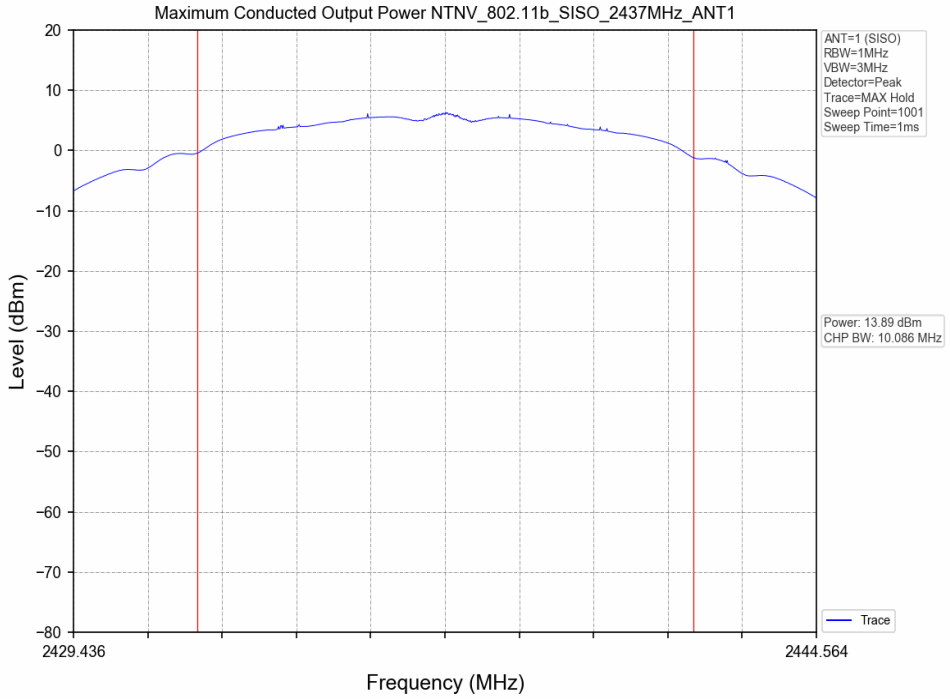
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	2452	MIMO	16.51	13.77	18.36	30	PASS

3.2 Test Graph

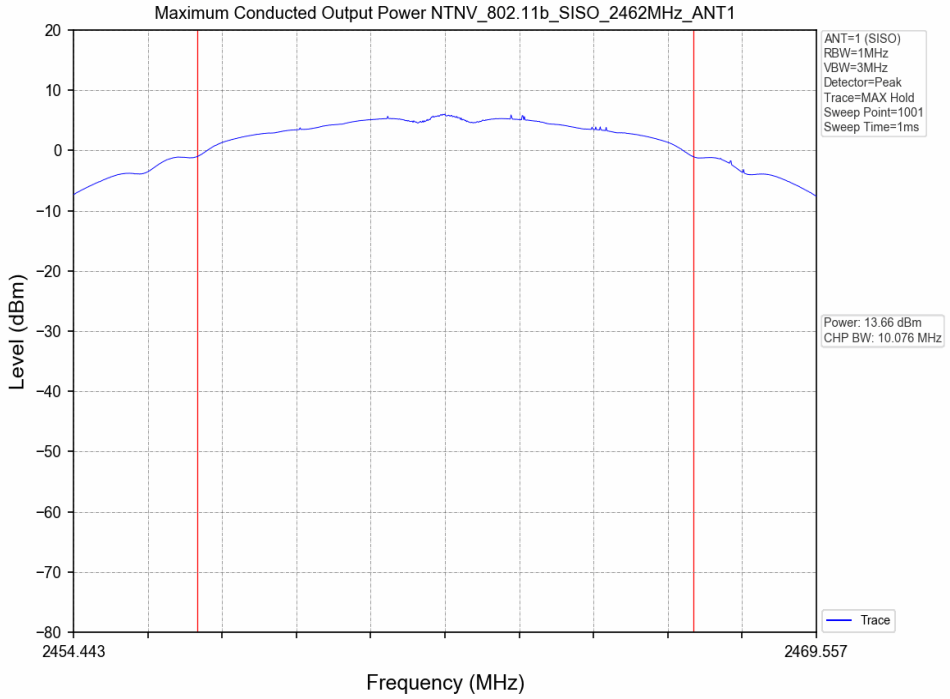


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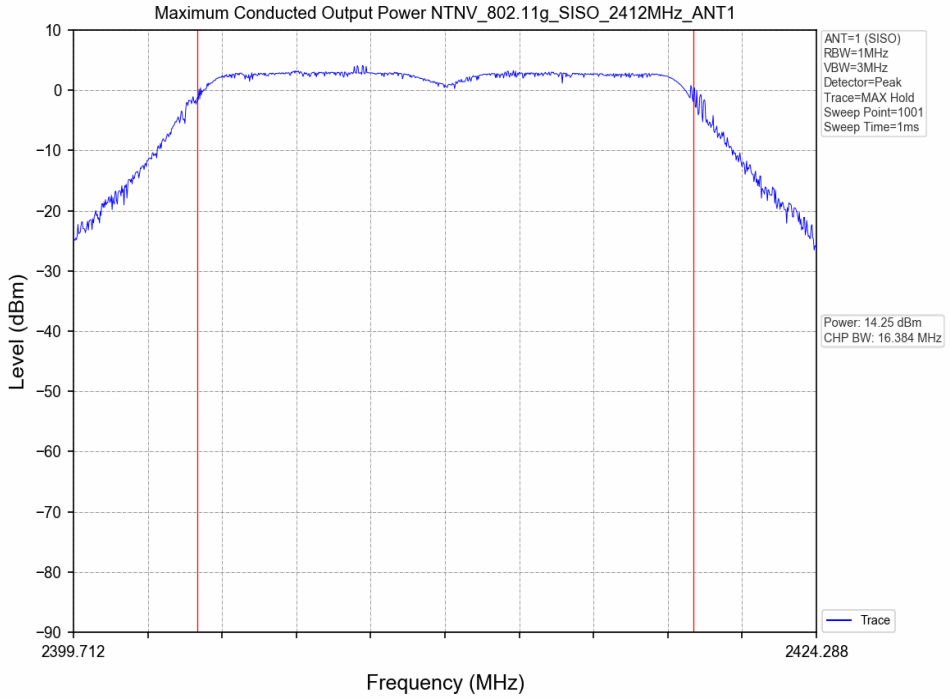
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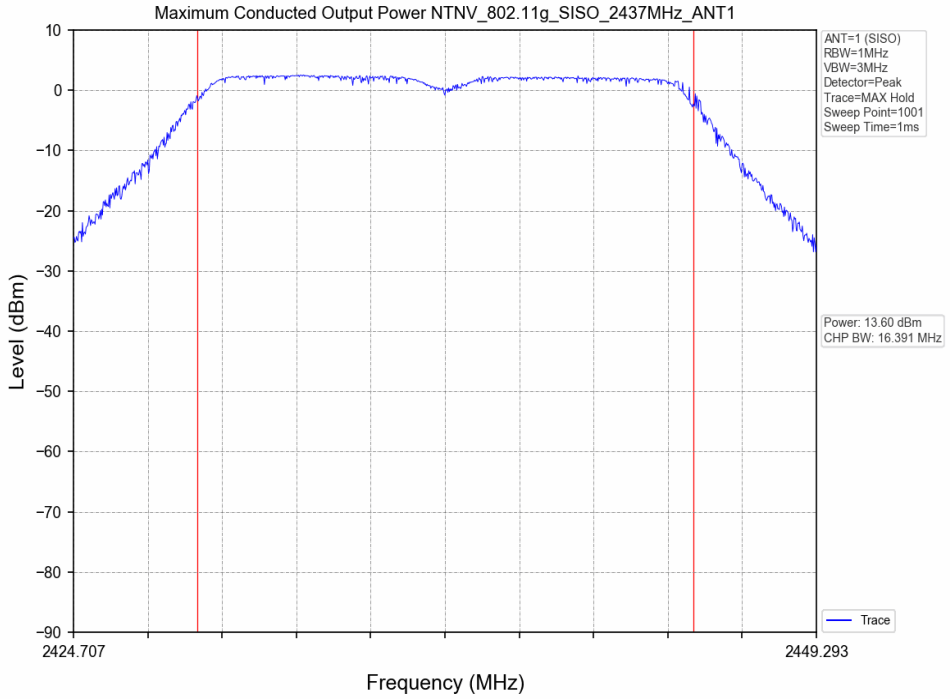
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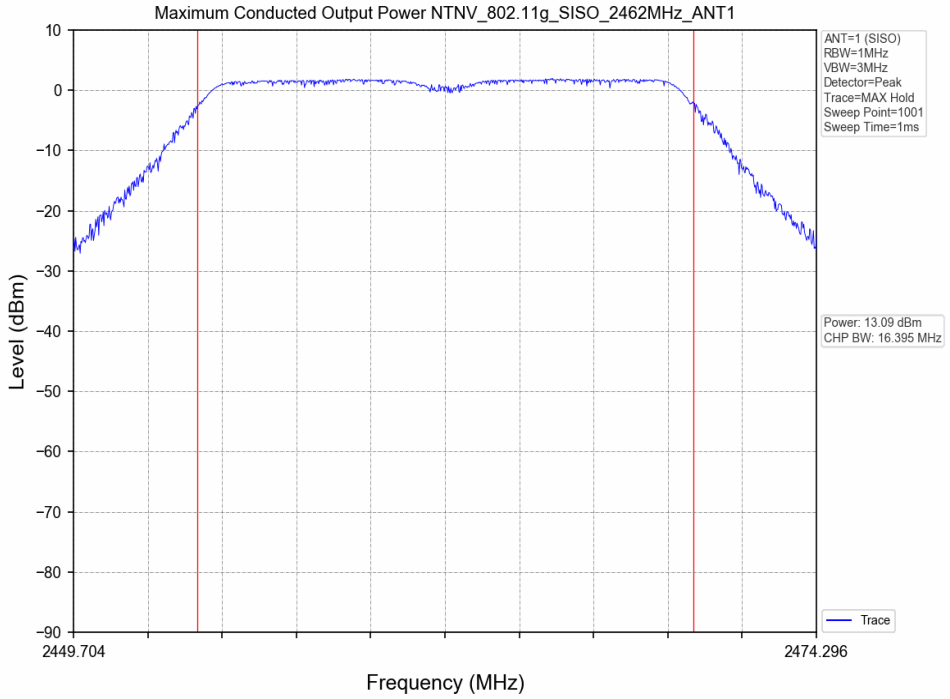
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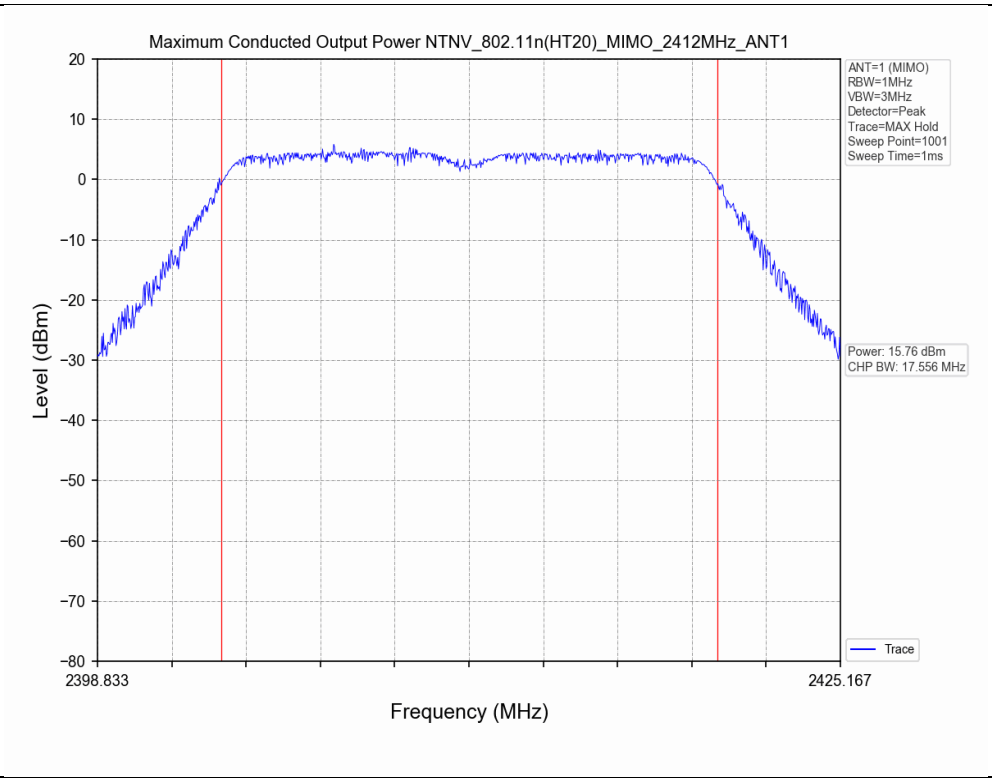
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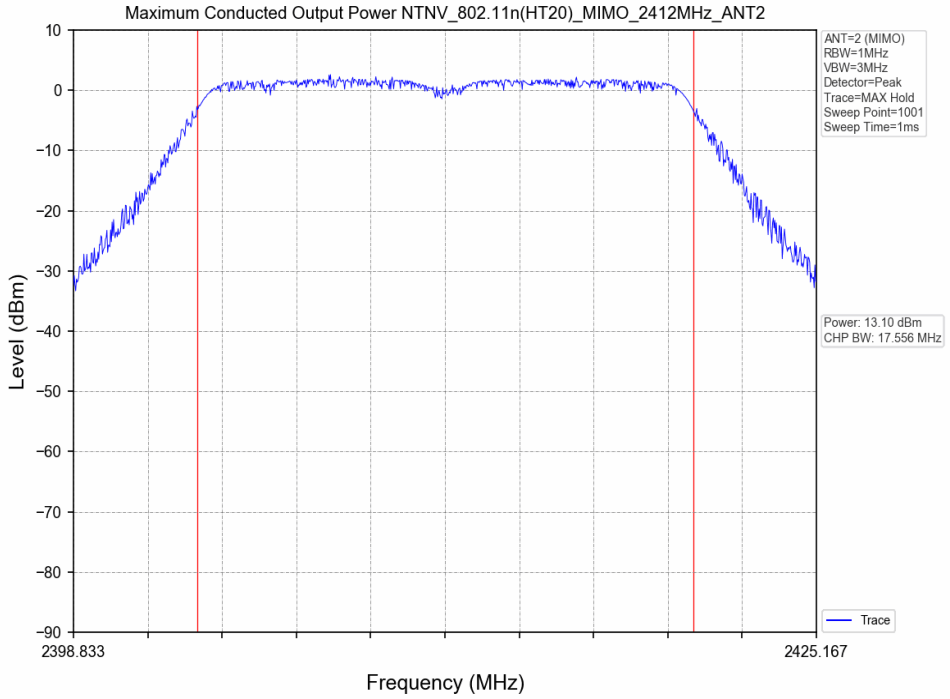
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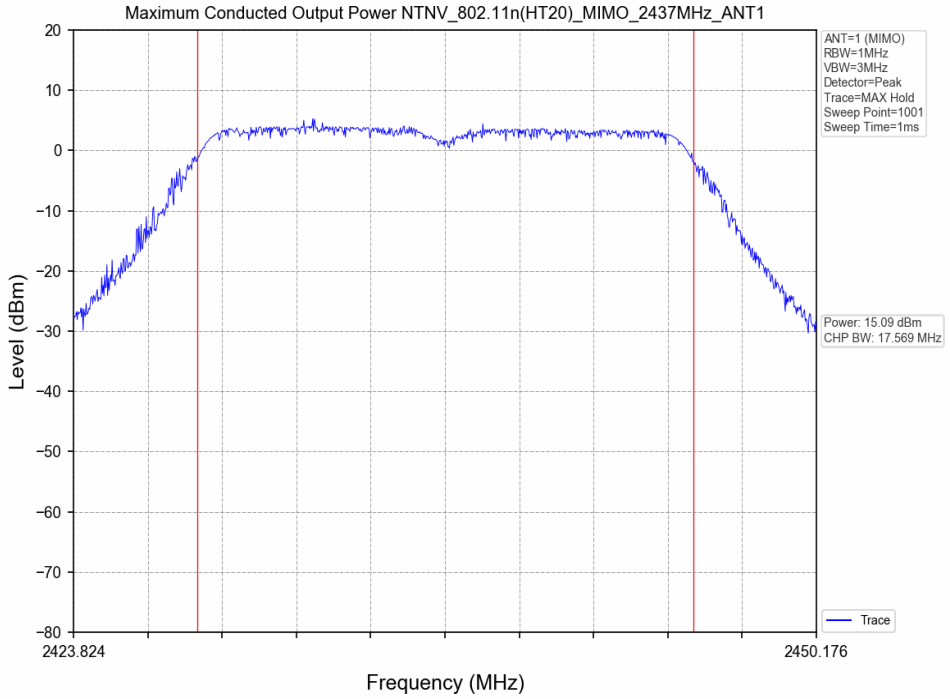
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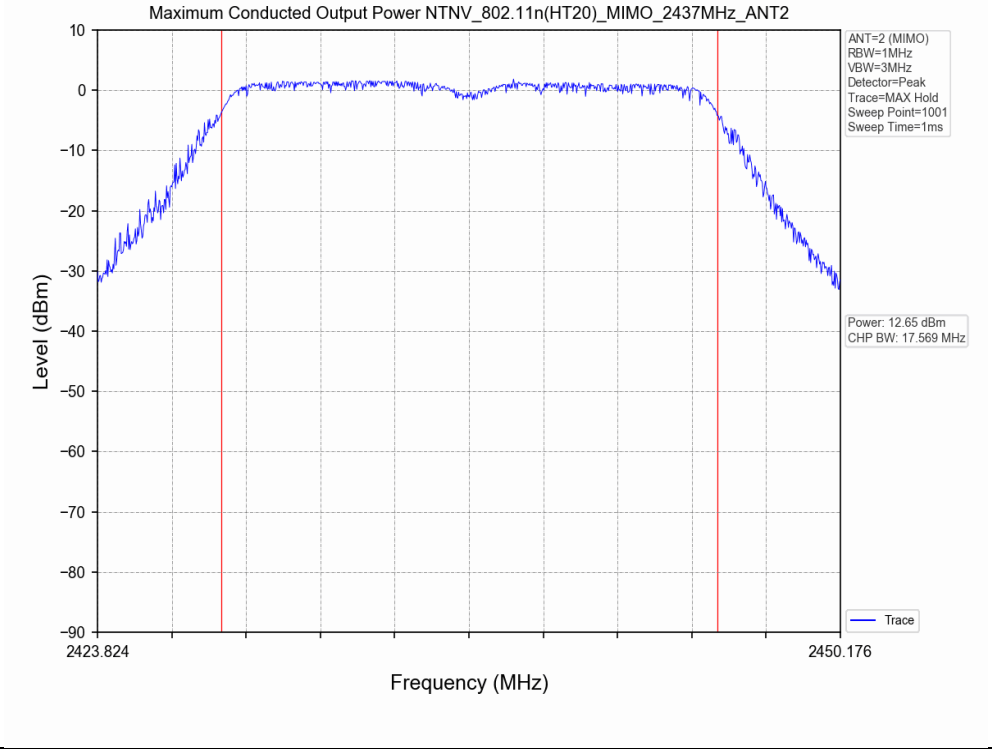
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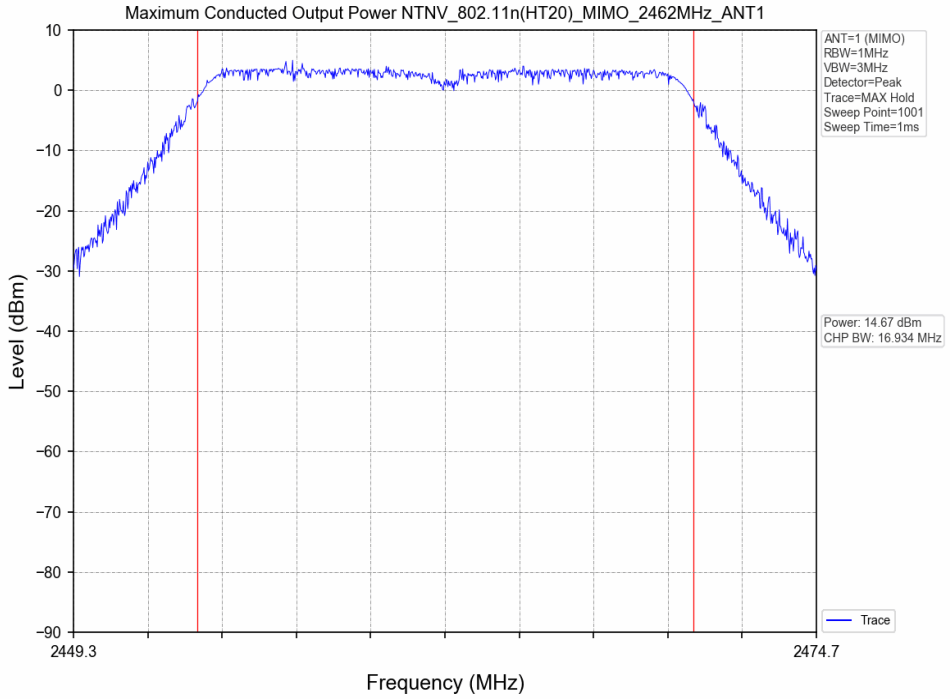
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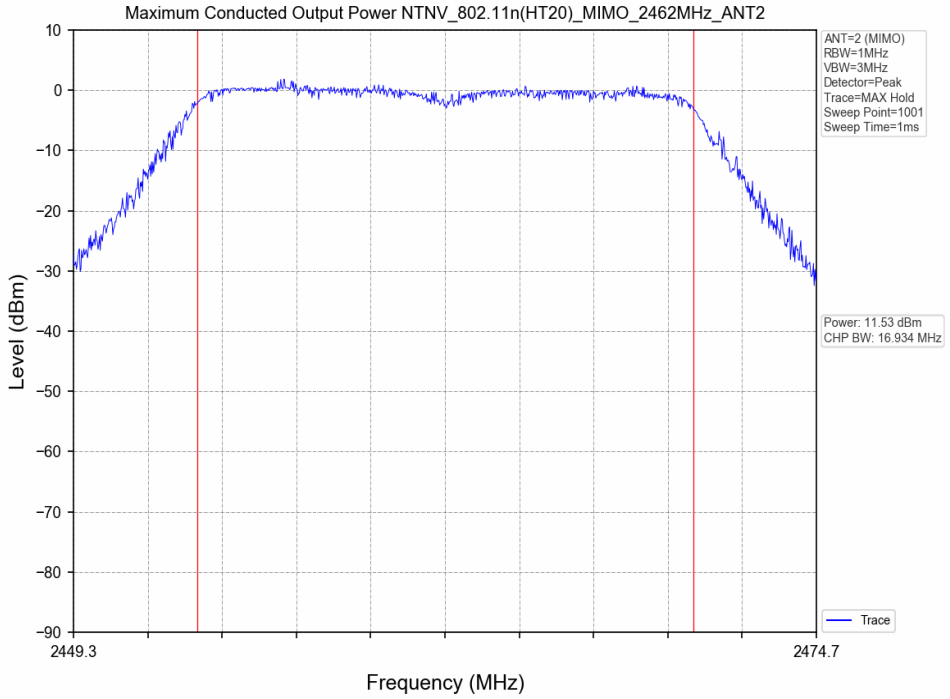
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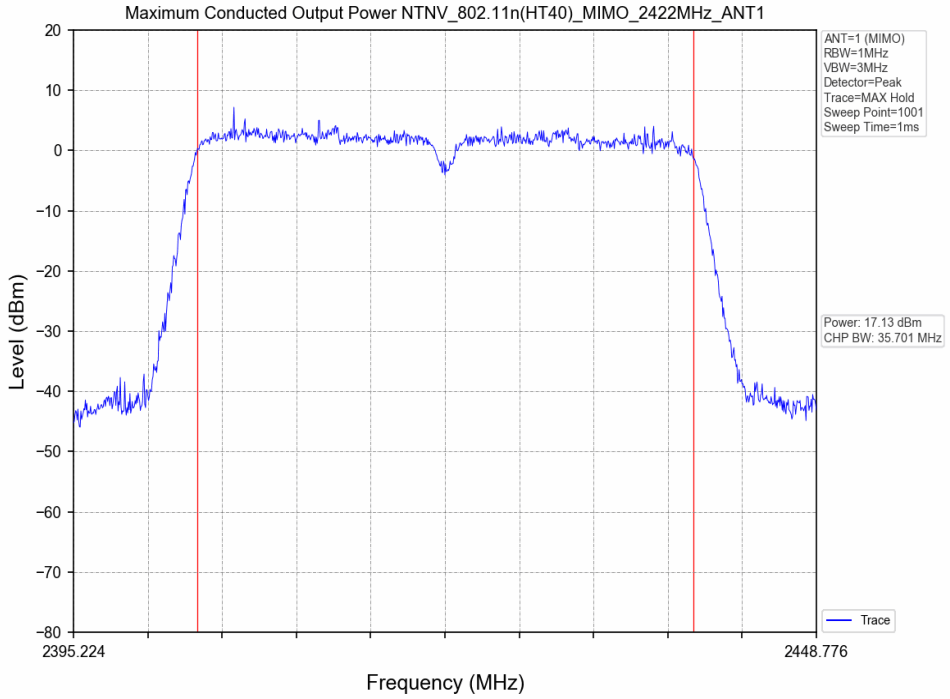
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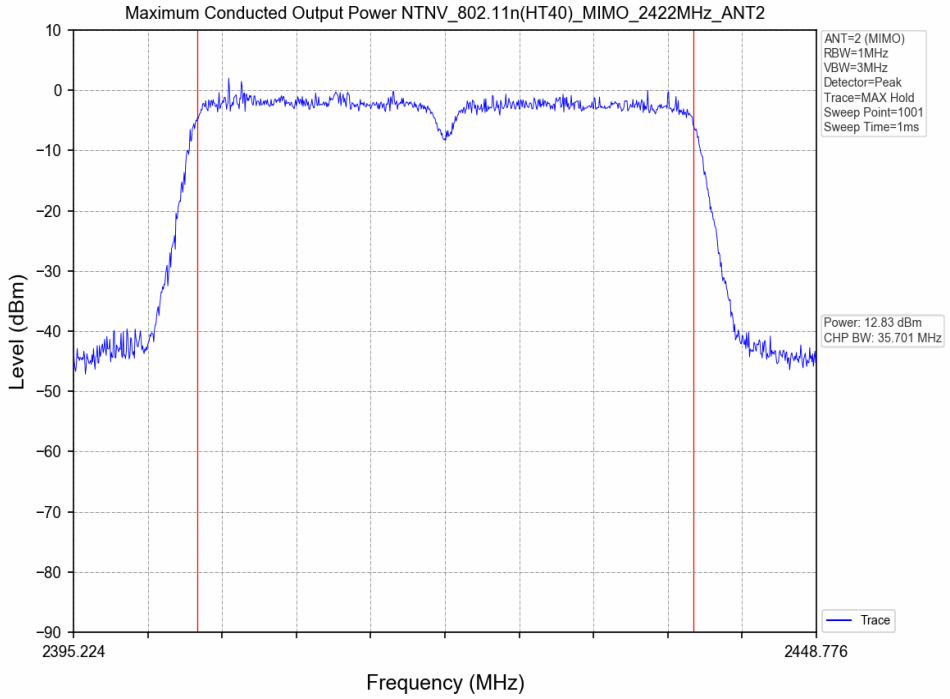
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