

Appendix A for-SHCR220100002901

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

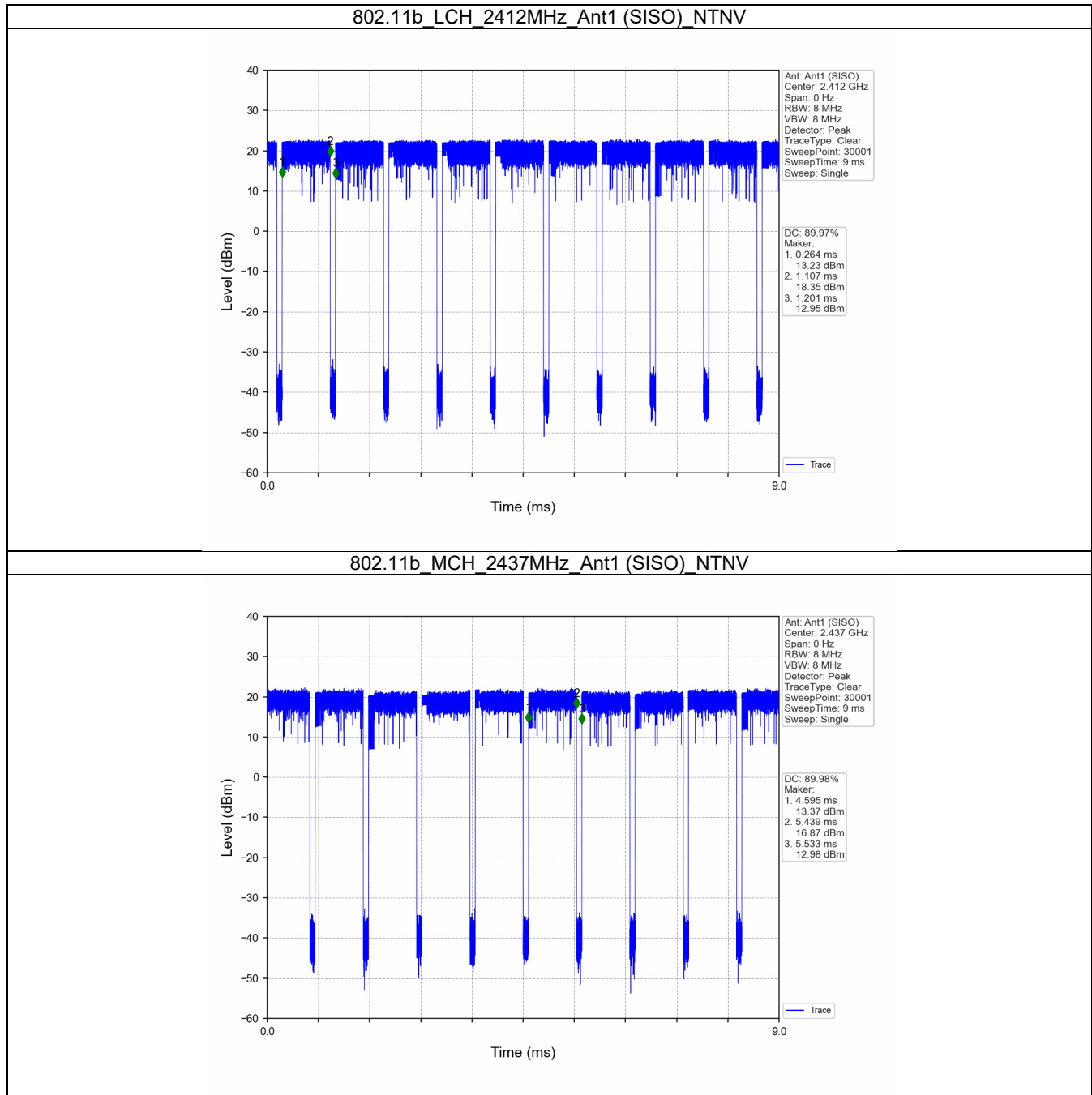
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	0.843	0.937	89.97	0.46	0.03
		2437	0.844	0.938	89.98	0.46	0.06
		2462	0.844	0.938	89.98	0.46	0.04
802.11g	SISO	2412	2.063	2.093	98.57	0.06	0.04
		2437	2.062	2.093	98.52	0.06	0.04
		2462	52.197	52.747	98.96	0.05	0.00
802.11n (HT20)	MIMO	2412	1.919	2.019	95.05	0.22	0.04
		2437	1.920	2.020	95.05	0.22	0.04
		2462	1.919	2.019	95.05	0.22	0.04



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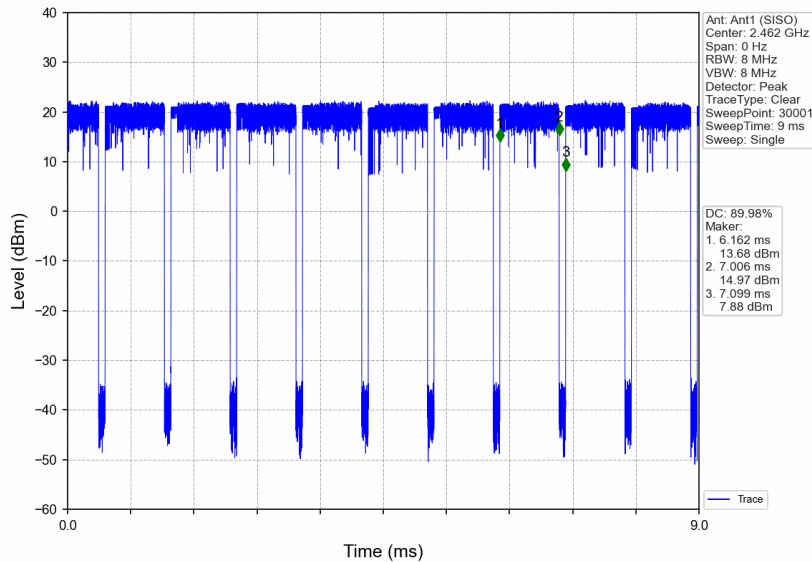
1.1.2 Test Graph



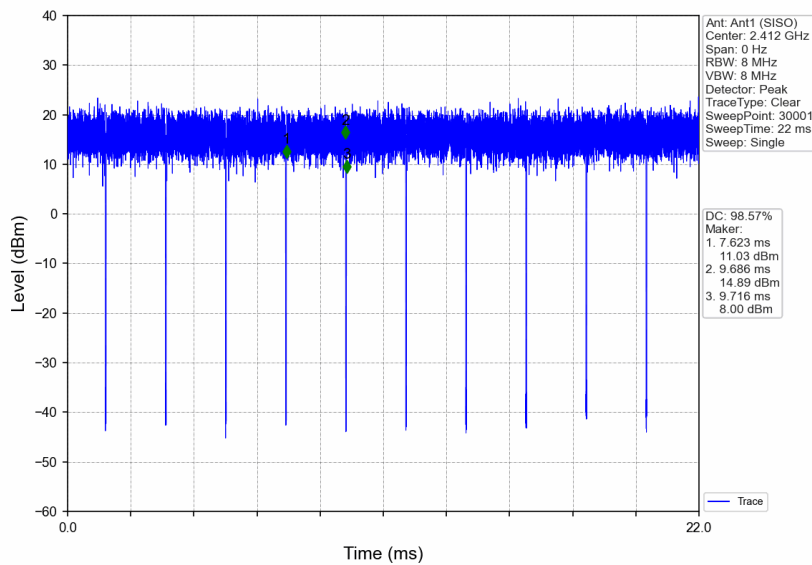
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802.11b HCH 2462MHz Ant1 (SISO) NTN



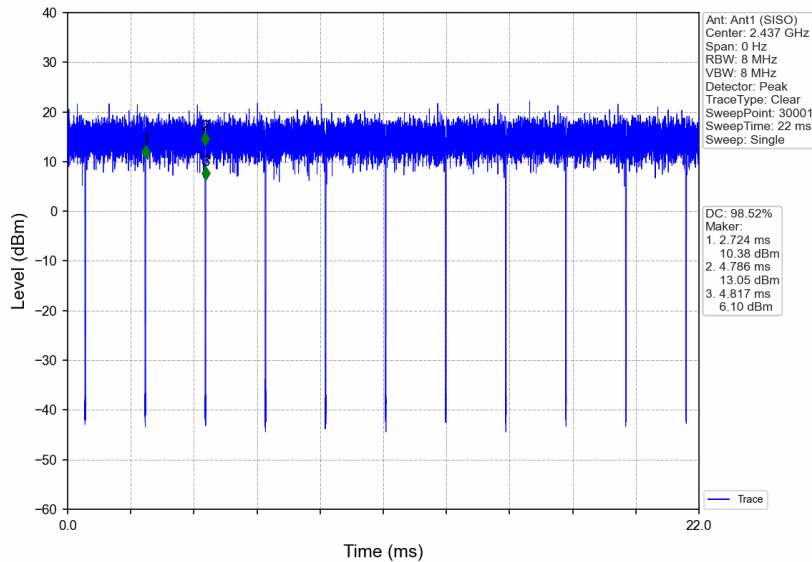
802.11g LCH 2412MHz Ant1 (SISO) NTN



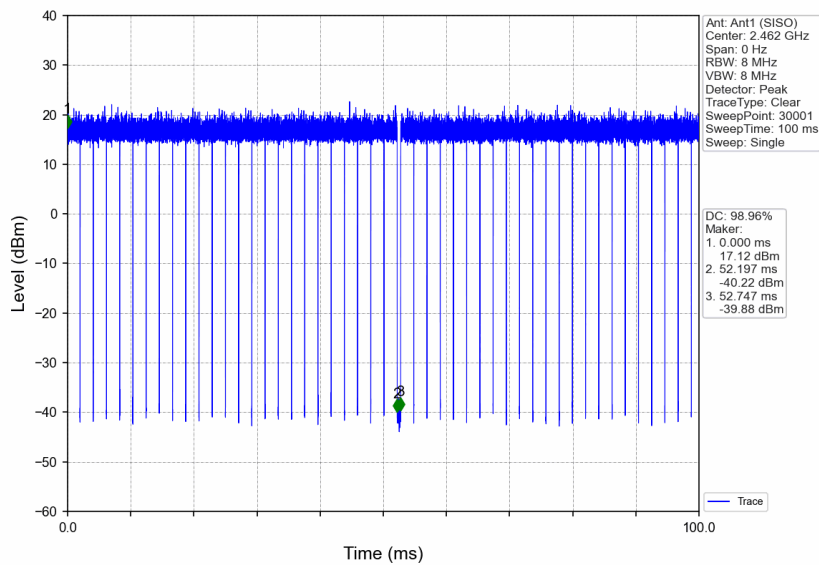
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802.11g MCH 2437MHz Ant1 (SISO) NTN



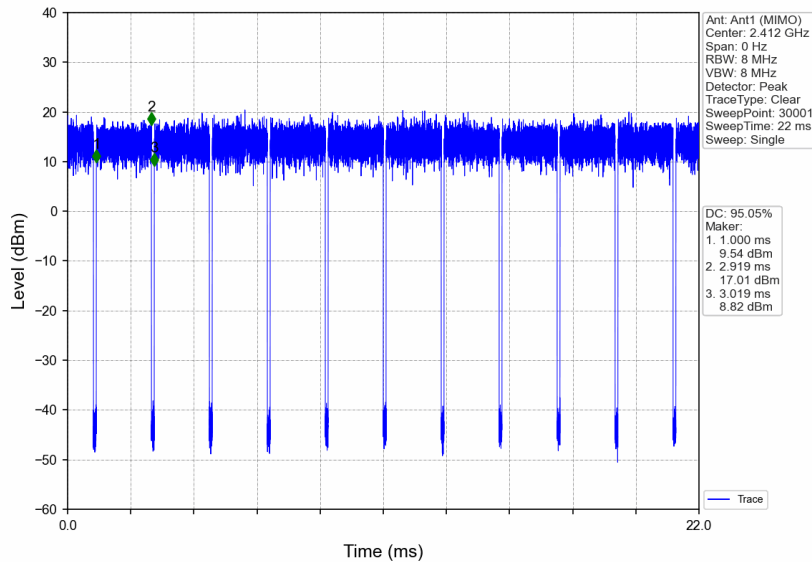
802.11g_HCH 2462MHz Ant1 (SISO) NTN



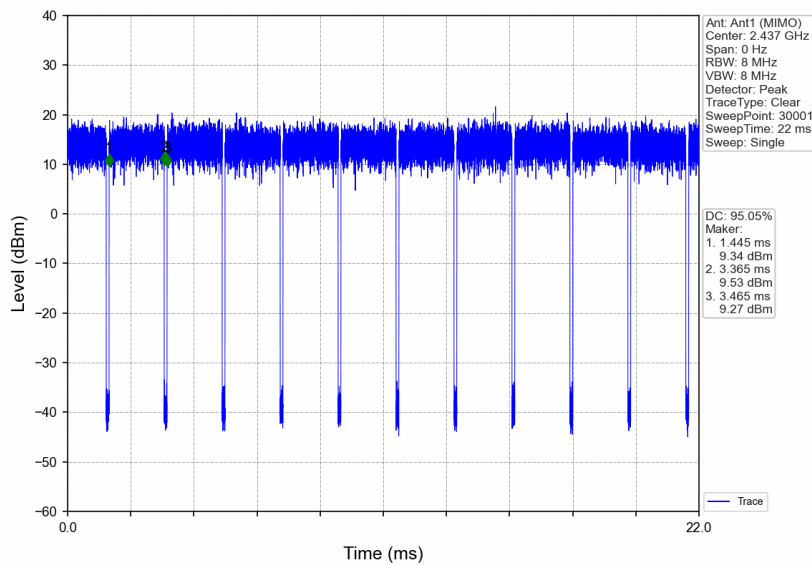
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTV

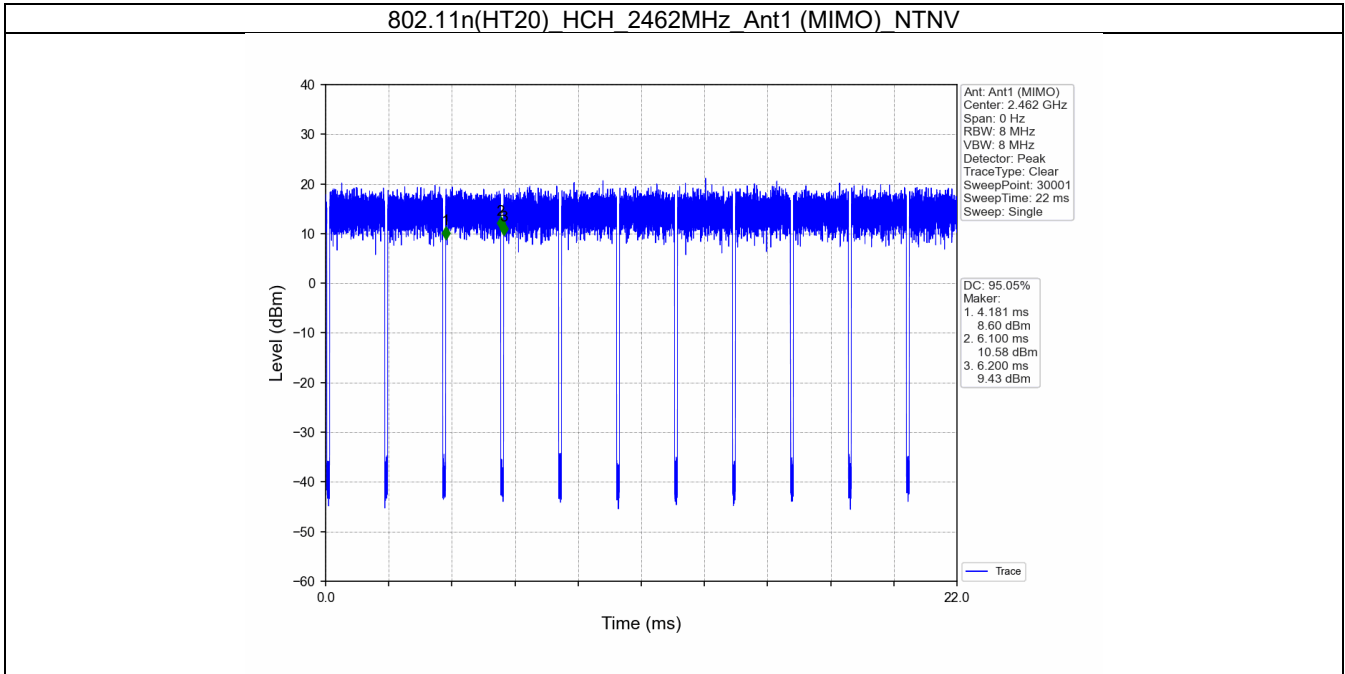


802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

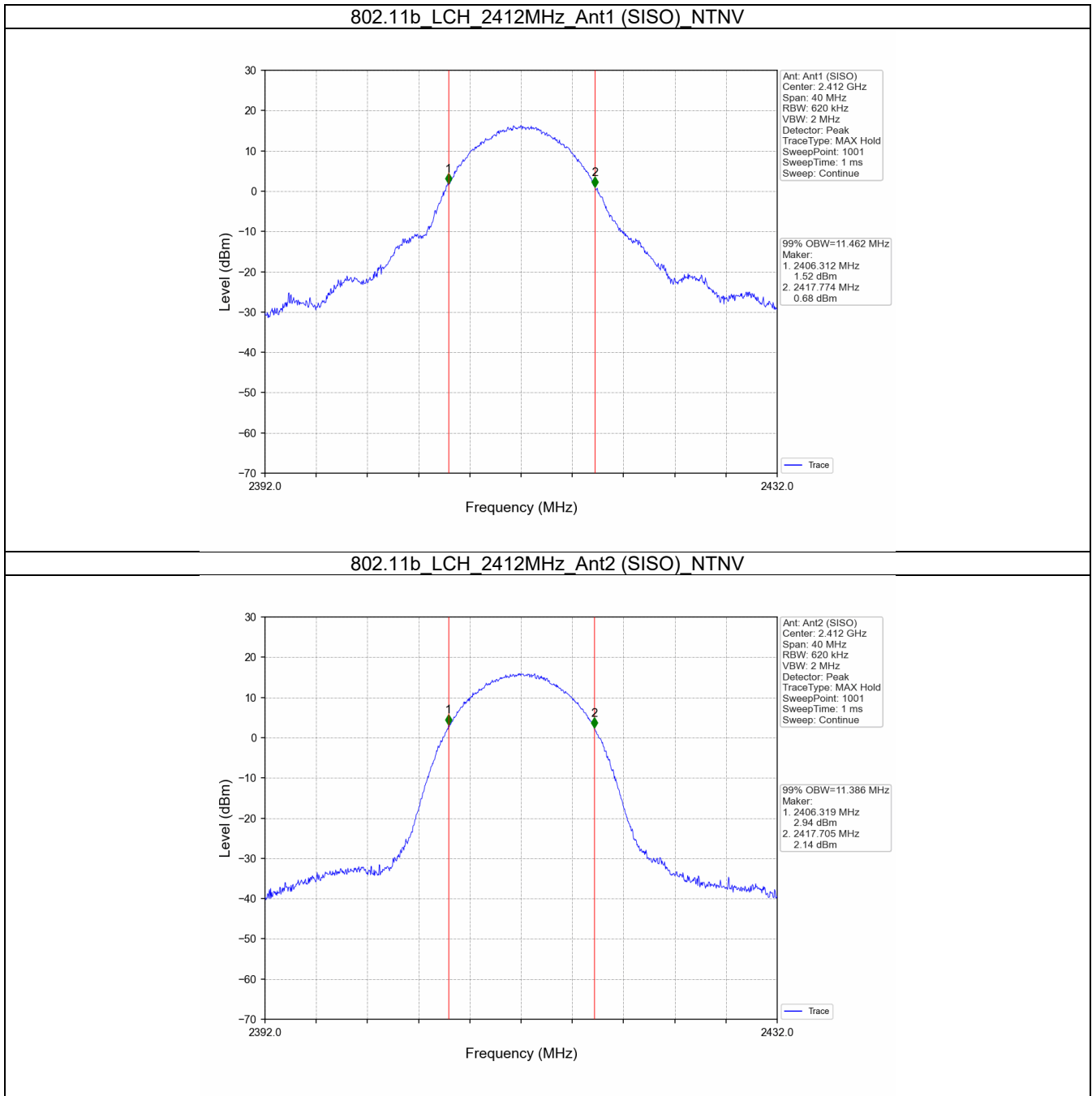
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.462	Pass
			2	11.386	Pass
		2437	1	11.375	Pass
			2	11.423	Pass
		2462	1	11.328	Pass
			2	11.437	Pass
802.11g	SISO	2412	1	20.032	Pass
			2	18.136	Pass
		2437	1	17.985	Pass
			2	17.970	Pass
		2462	1	17.933	Pass
			2	17.947	Pass
802.11n (HT20)	MIMO	2412	1	18.957	Pass
			2	18.963	Pass
		2437	1	18.281	Pass
			2	18.931	Pass
		2462	1	18.295	Pass
			2	18.920	Pass



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2.1.2 Test Graph



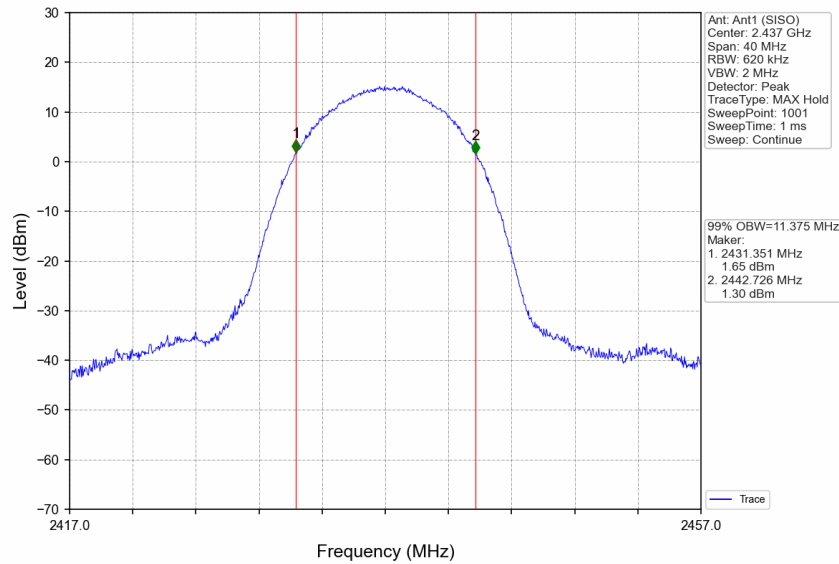
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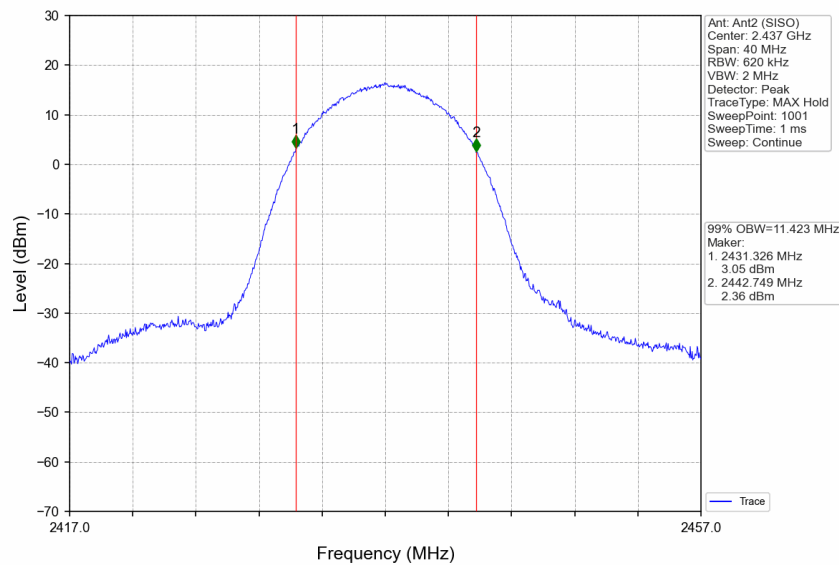
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802.11b MCH 2437MHz Ant1 (SISO) NTN



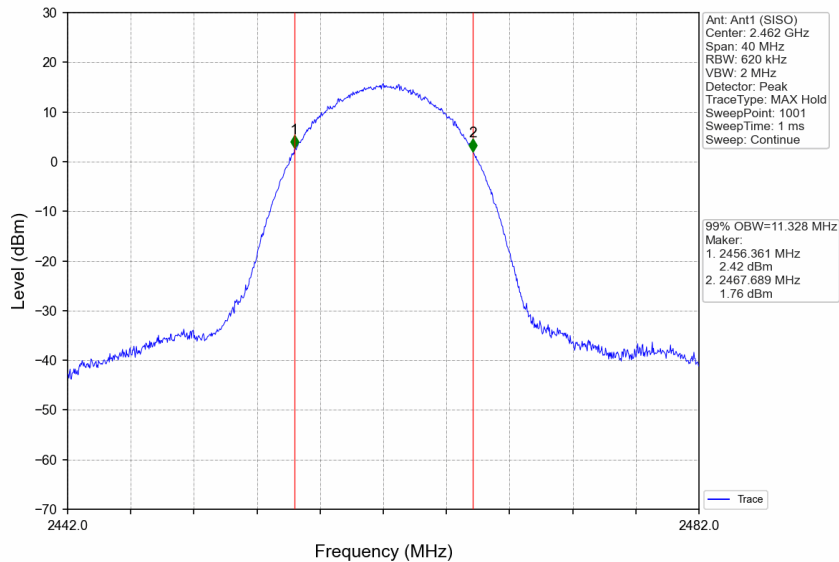
802.11b MCH 2437MHz Ant2 (SISO) NTN



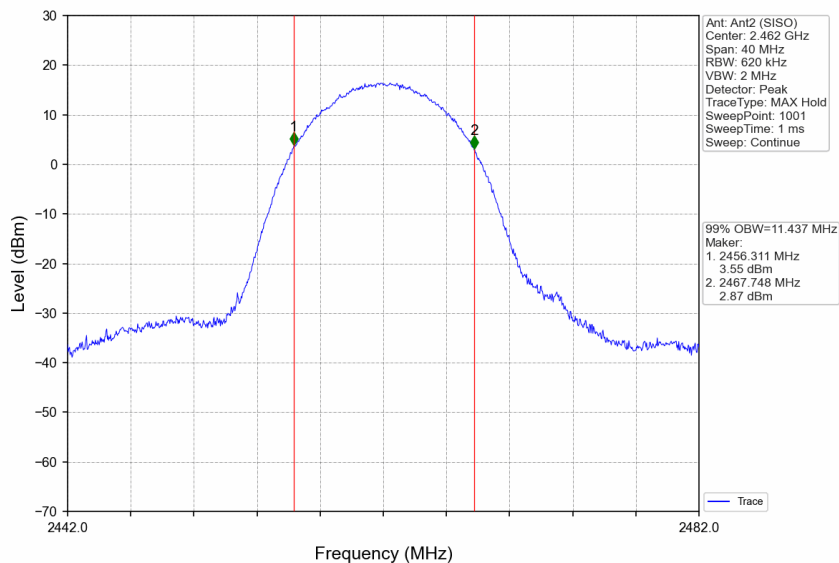
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802.11b HCH 2462MHz Ant1 (SISO) NTN



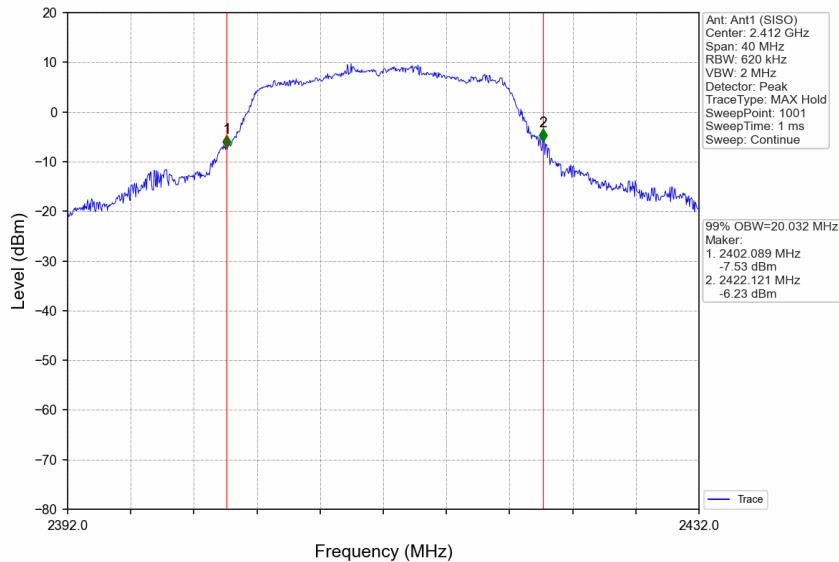
802.11b HCH 2462MHz Ant2 (SISO) NTN



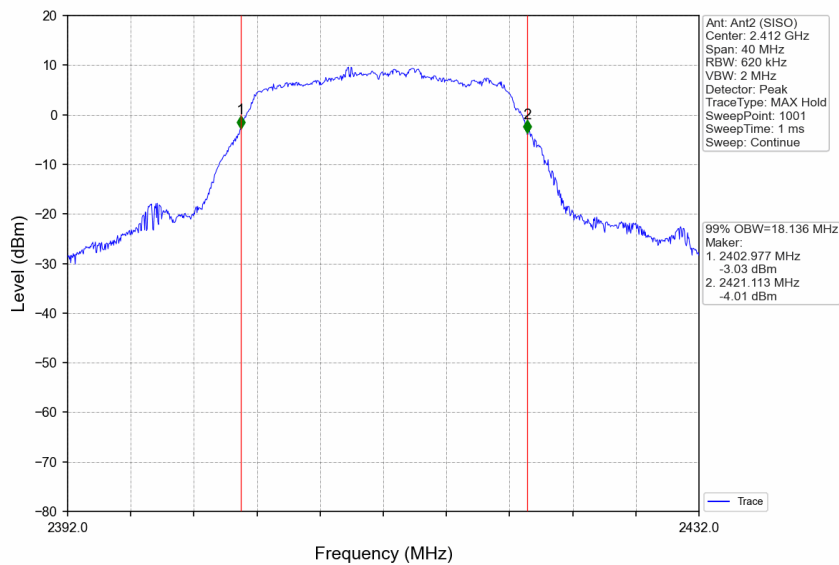
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



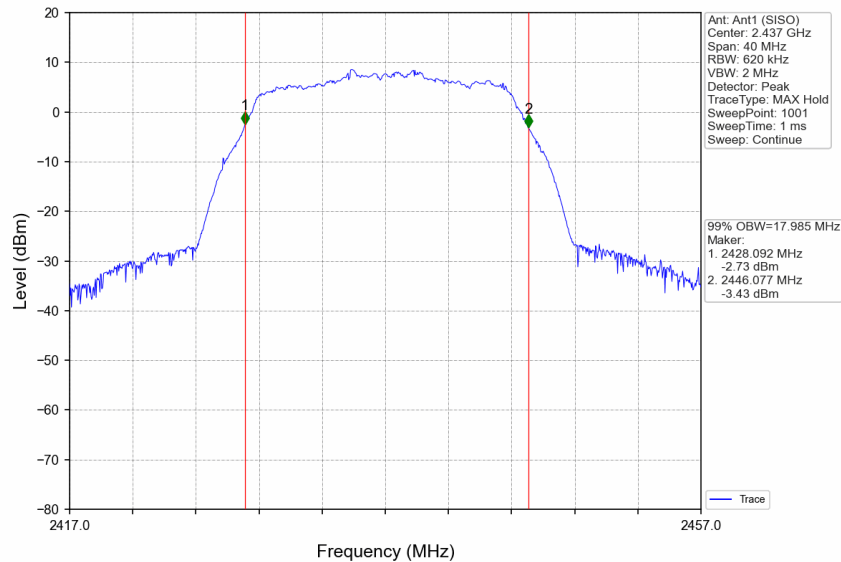
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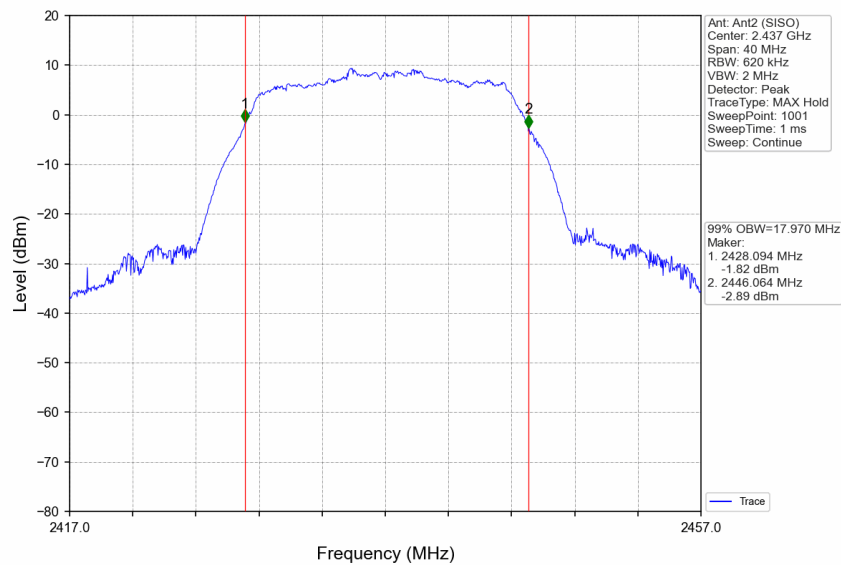
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802.11g MCH 2437MHz Ant1 (SISO) NTN



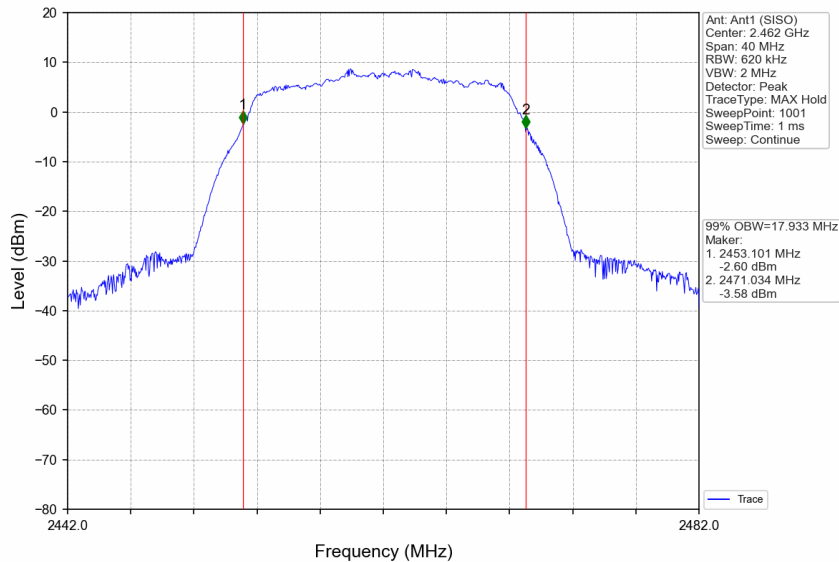
802.11g MCH 2437MHz Ant2 (SISO) NTN



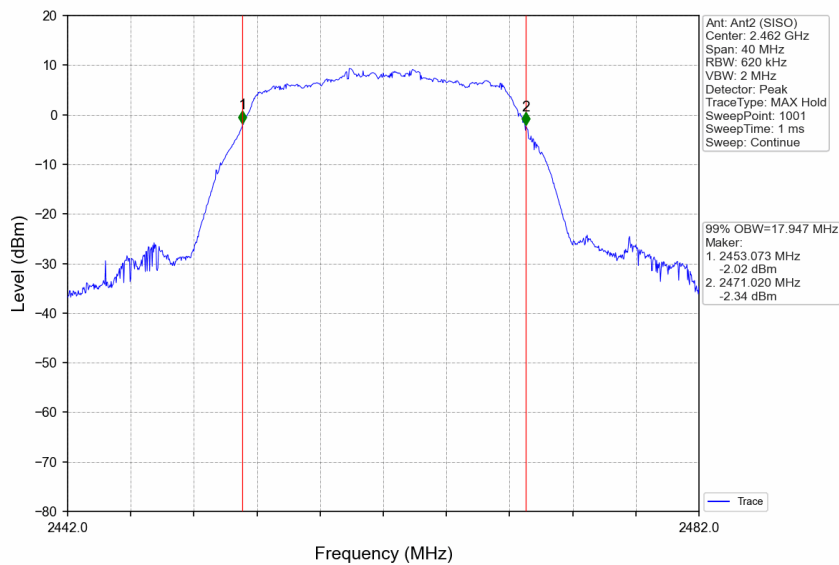
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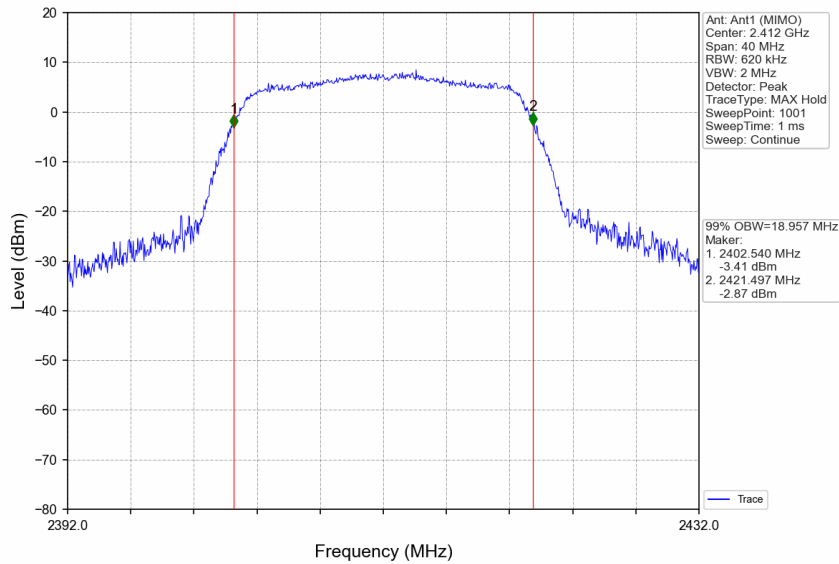
802.11g HCH 2462MHz Ant2 (SISO) NTN



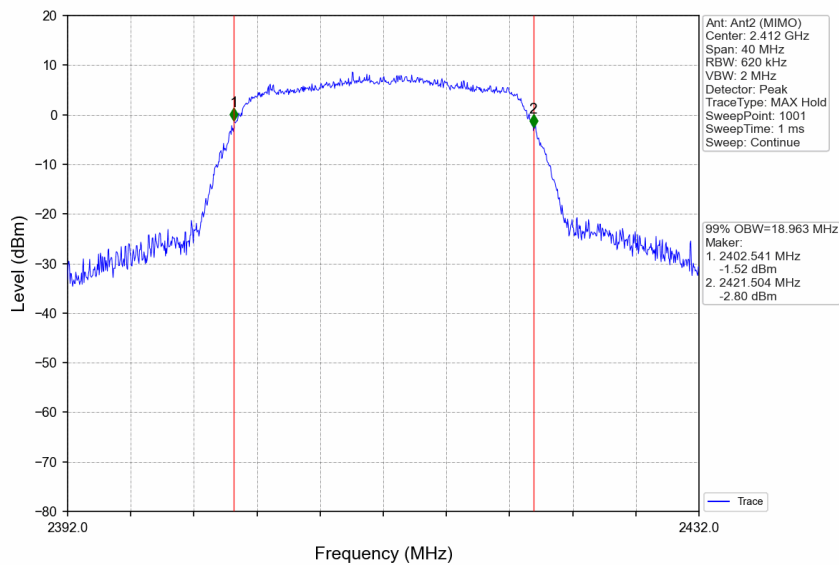
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



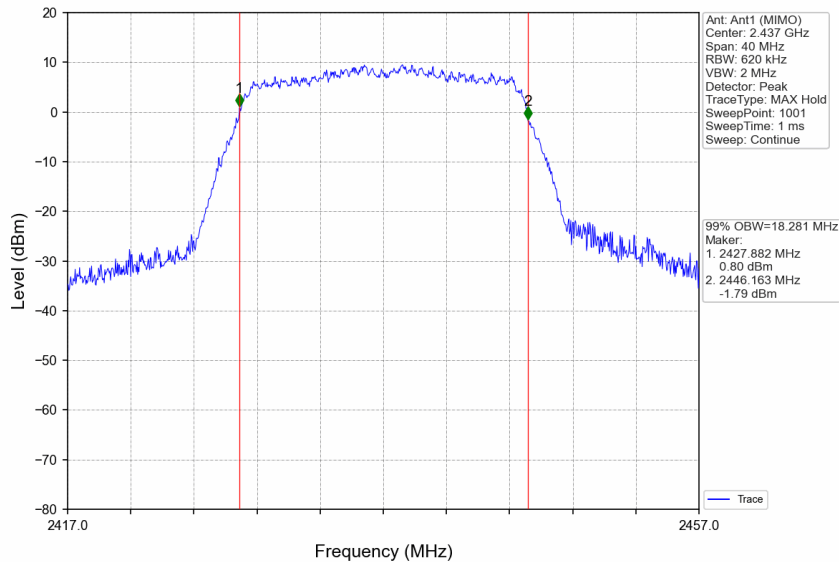
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



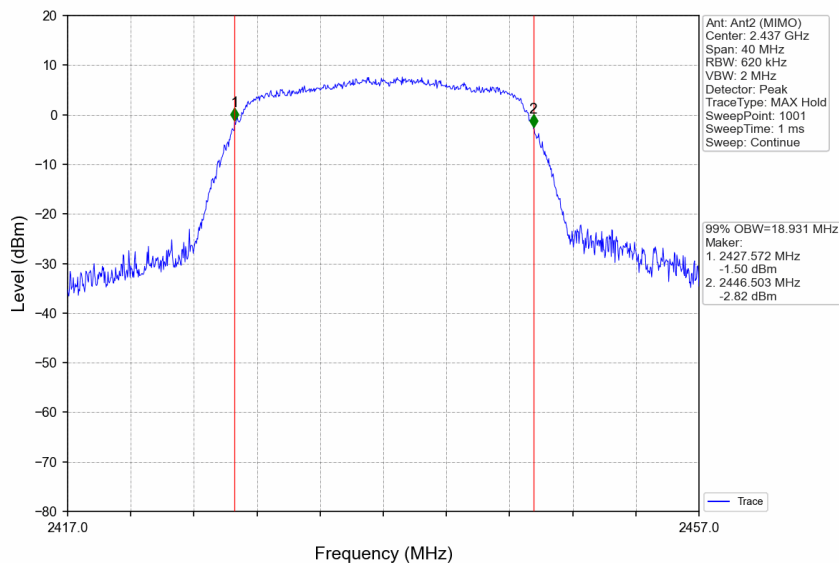
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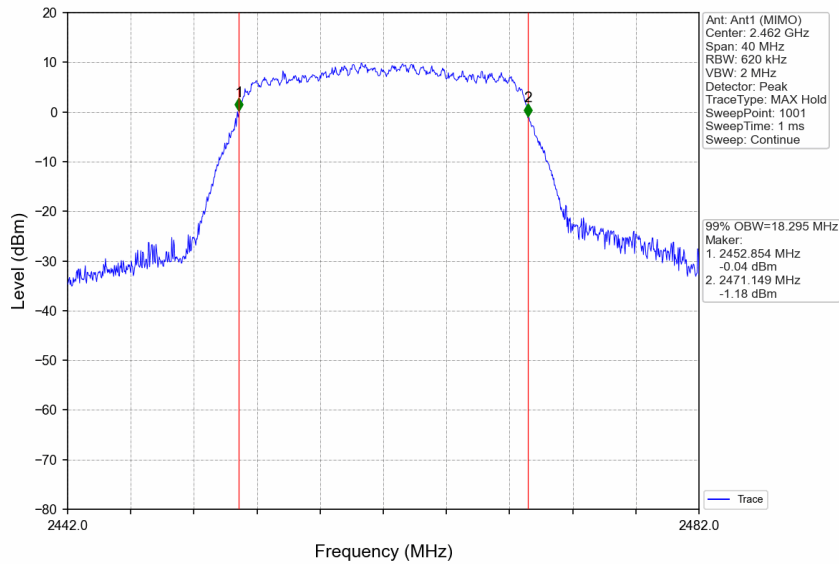
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTN



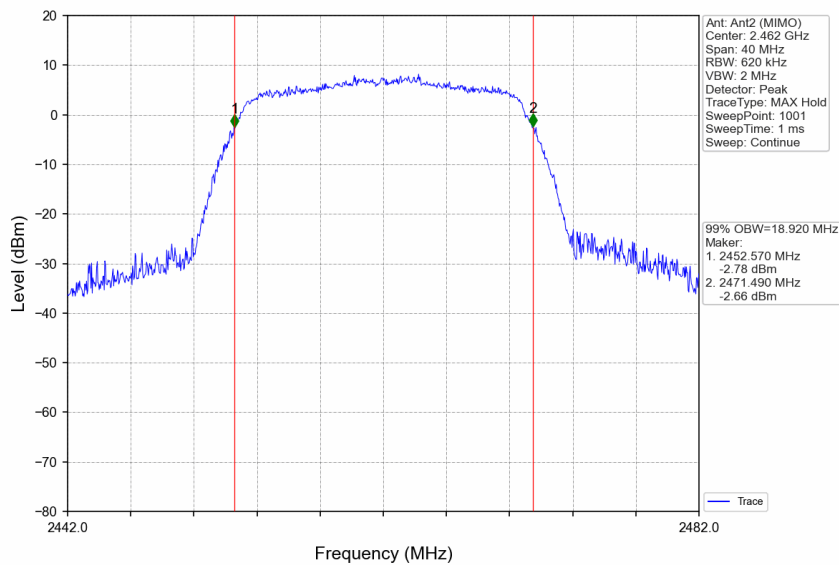
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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2.2 6dB BW

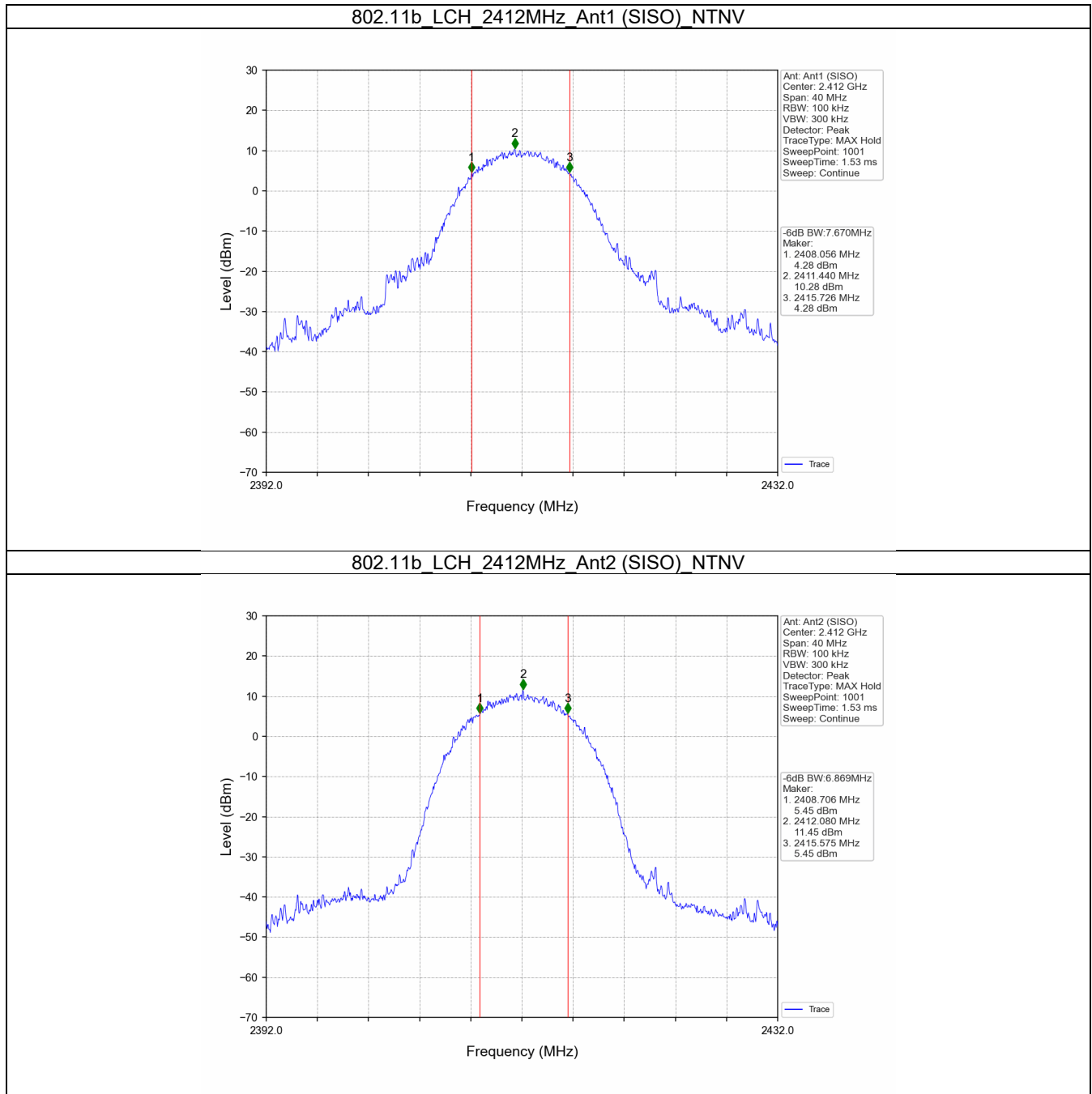
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.670	>=0.5	Pass
			2	6.869	>=0.5	Pass
		2437	1	6.677	>=0.5	Pass
			2	7.367	>=0.5	Pass
		2462	1	7.622	>=0.5	Pass
			2	6.651	>=0.5	Pass
802.11g	SISO	2412	1	16.405	>=0.5	Pass
			2	16.406	>=0.5	Pass
		2437	1	16.369	>=0.5	Pass
			2	16.372	>=0.5	Pass
		2462	1	16.364	>=0.5	Pass
			2	16.374	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.607	>=0.5	Pass
			2	17.612	>=0.5	Pass
		2437	1	17.617	>=0.5	Pass
			2	17.596	>=0.5	Pass
		2462	1	17.621	>=0.5	Pass
			2	17.604	>=0.5	Pass



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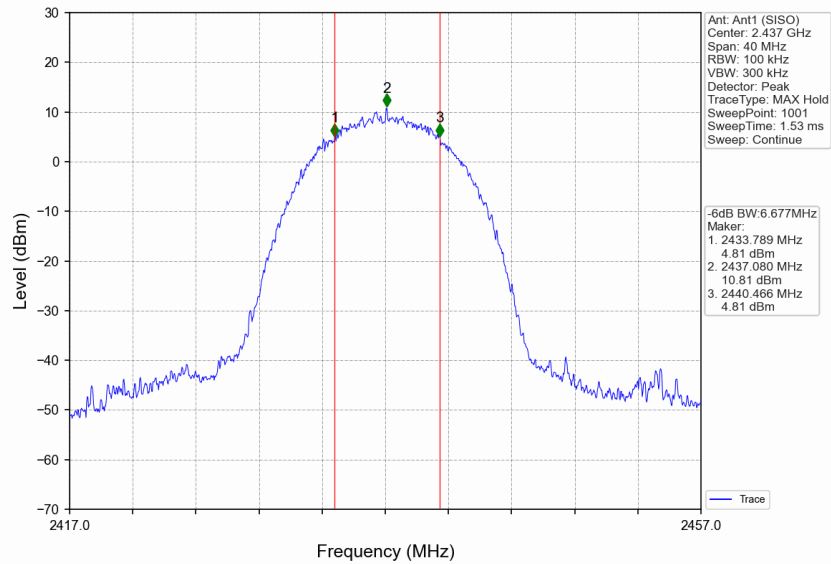
2.2.2 Test Graph



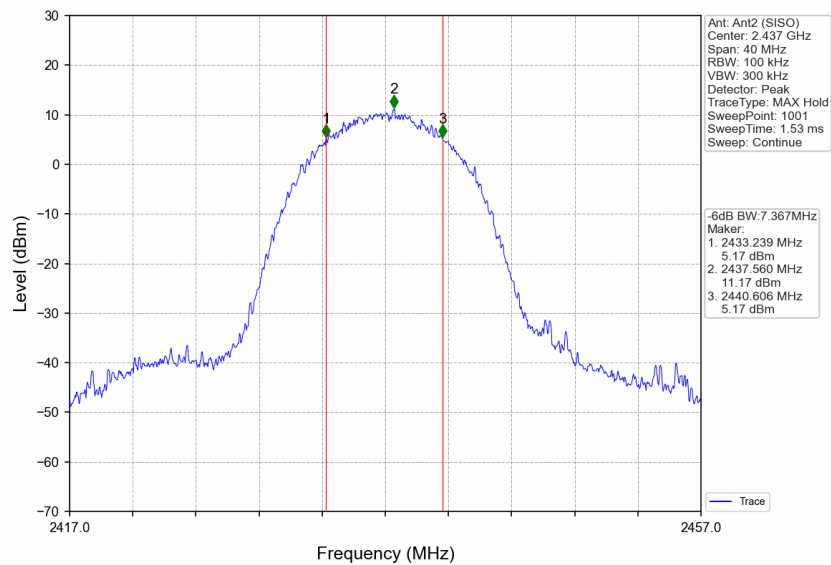
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802.11b MCH 2437MHz Ant1 (SISO) NTVN



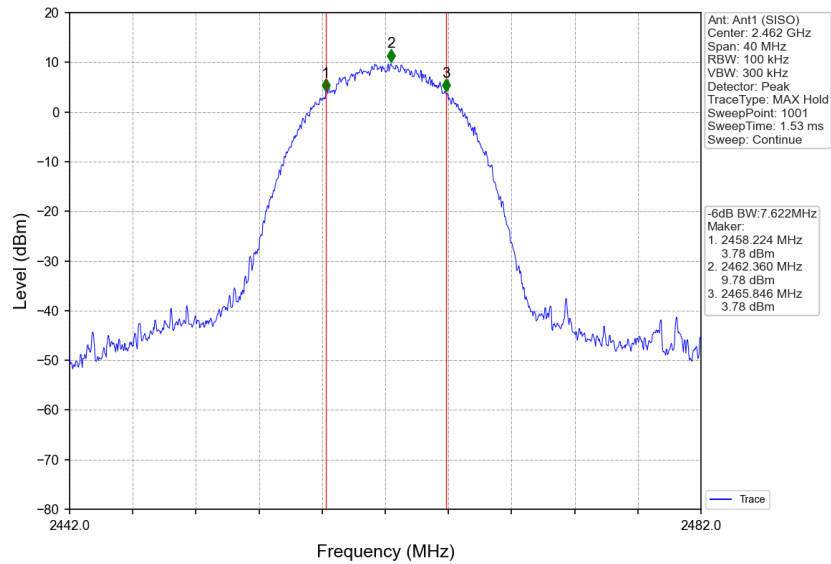
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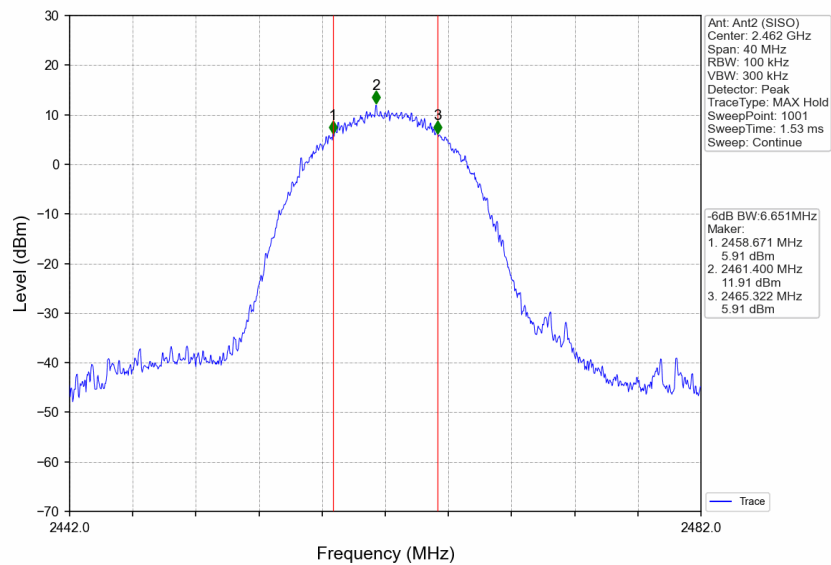
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802.11b HCH 2462MHz Ant1 (SISO) NTN



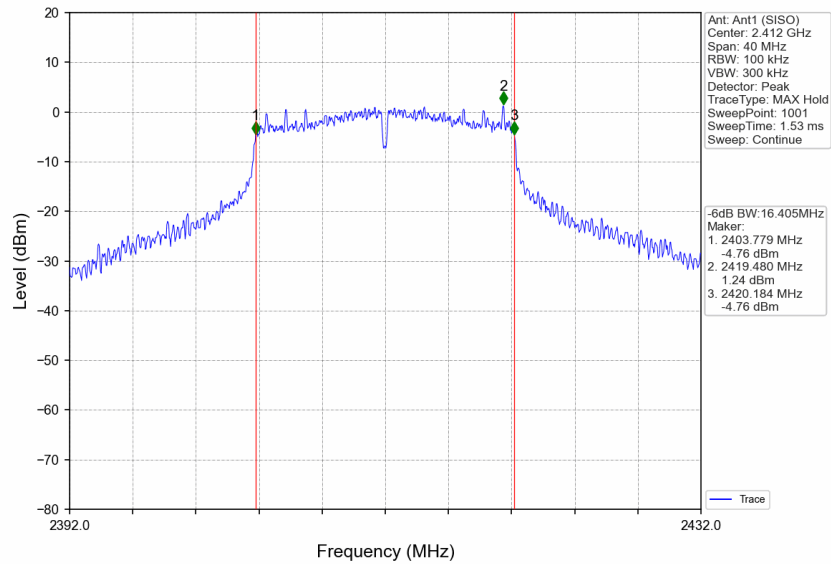
802.11b HCH 2462MHz Ant2 (SISO) NTN



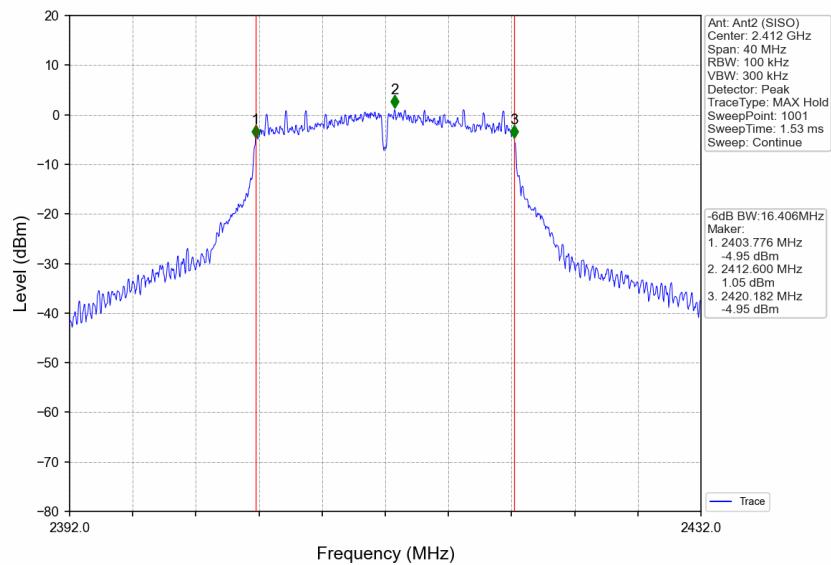
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



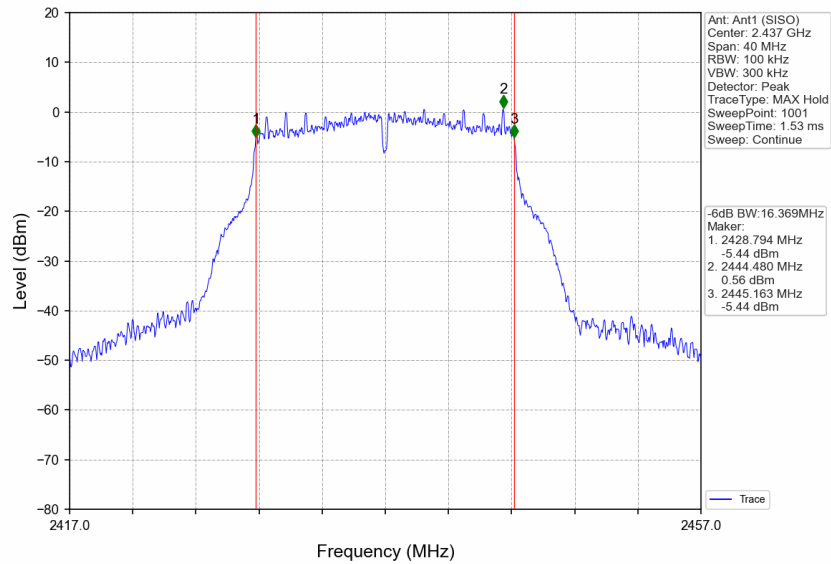
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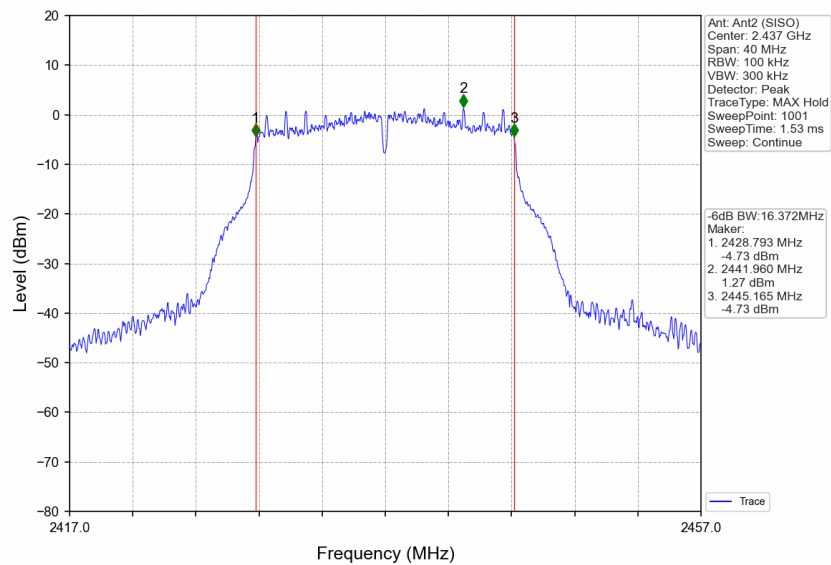
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802.11g MCH 2437MHz Ant1 (SISO) NTV



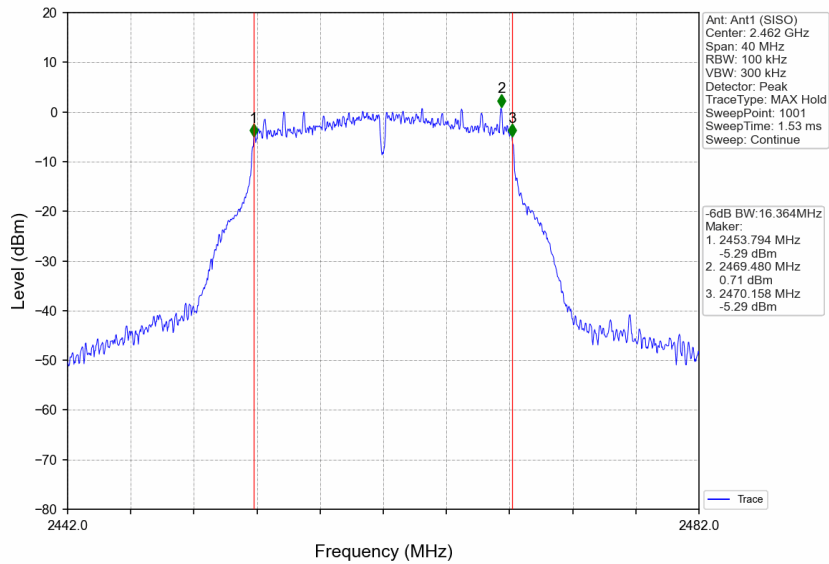
802.11g MCH 2437MHz Ant2 (SISO) NTV



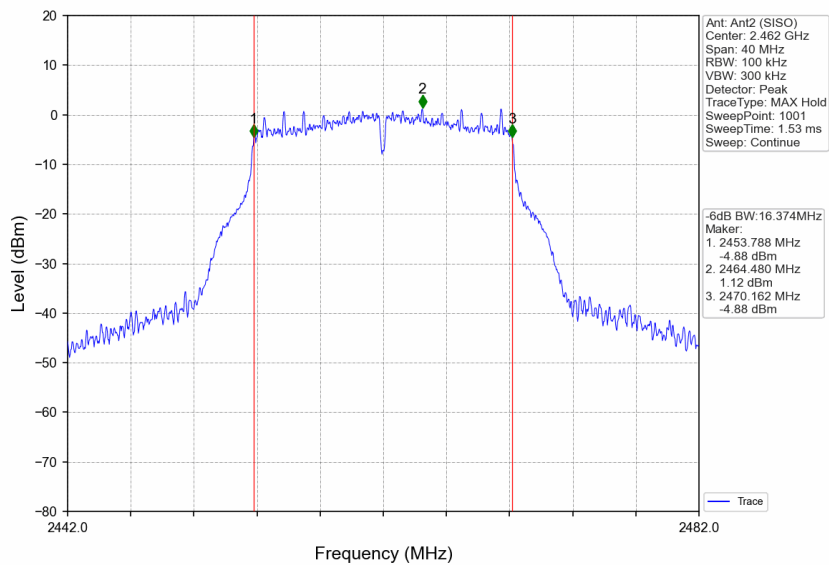
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802.11g HCH 2462MHz Ant1 (SISO) NTN



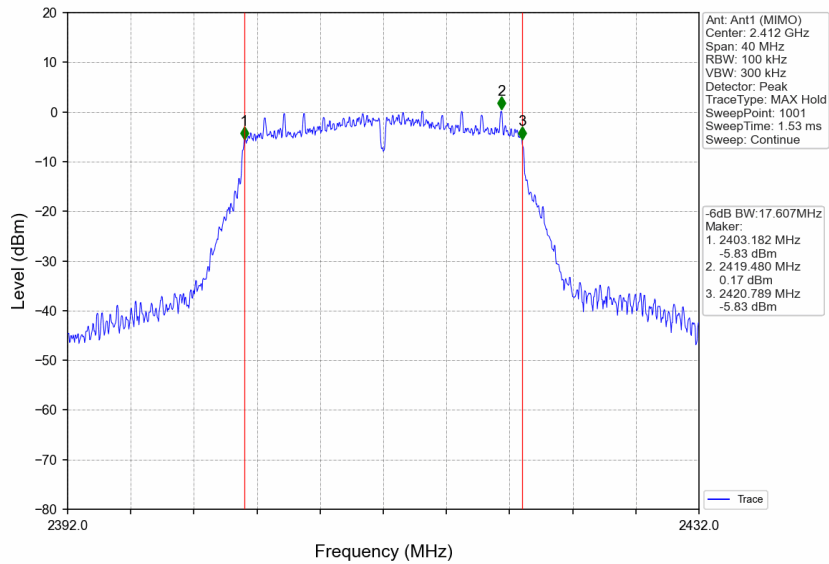
802.11g HCH 2462MHz Ant2 (SISO) NTN



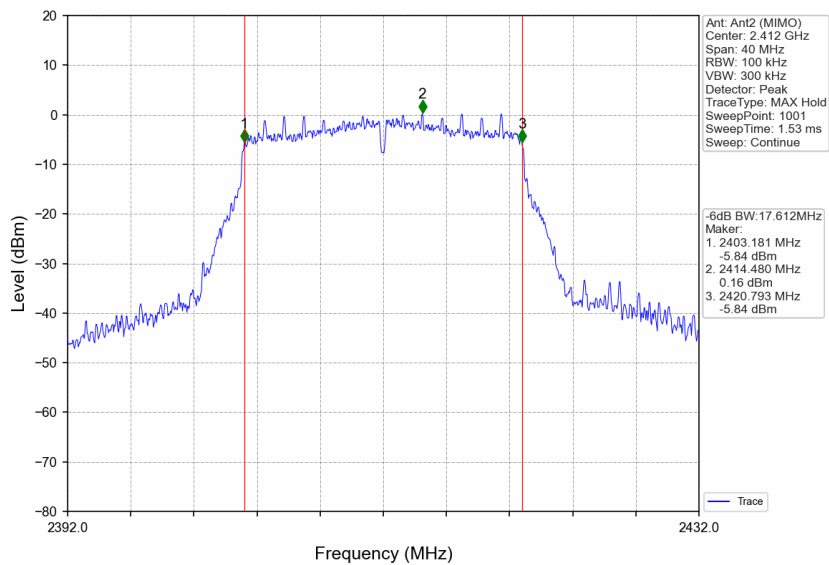
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTN



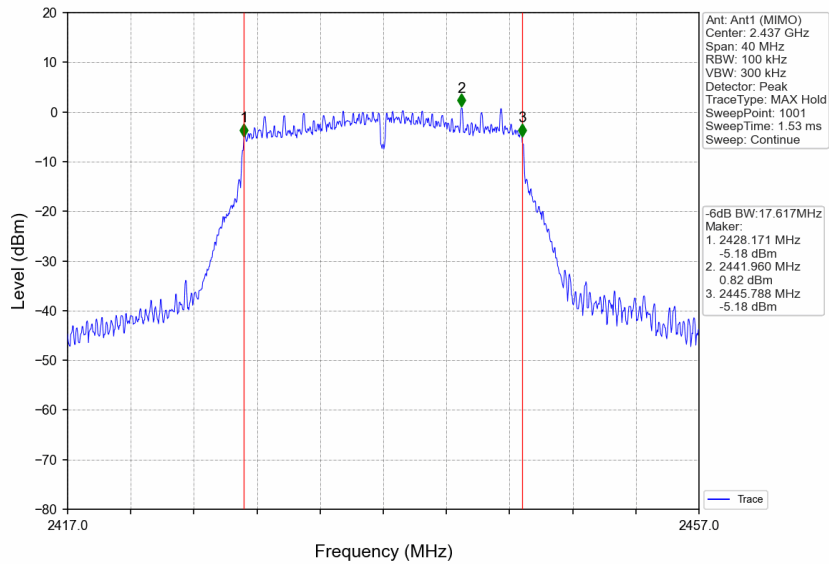
802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTN



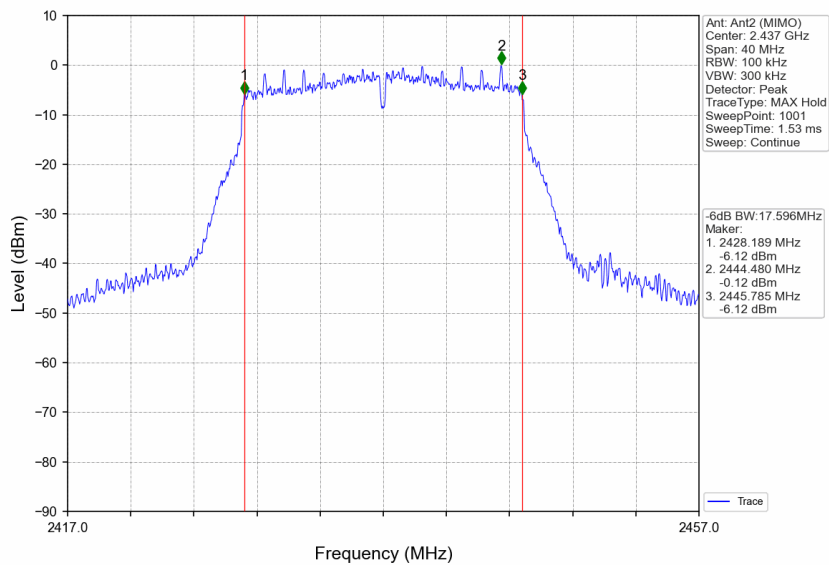
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTVN



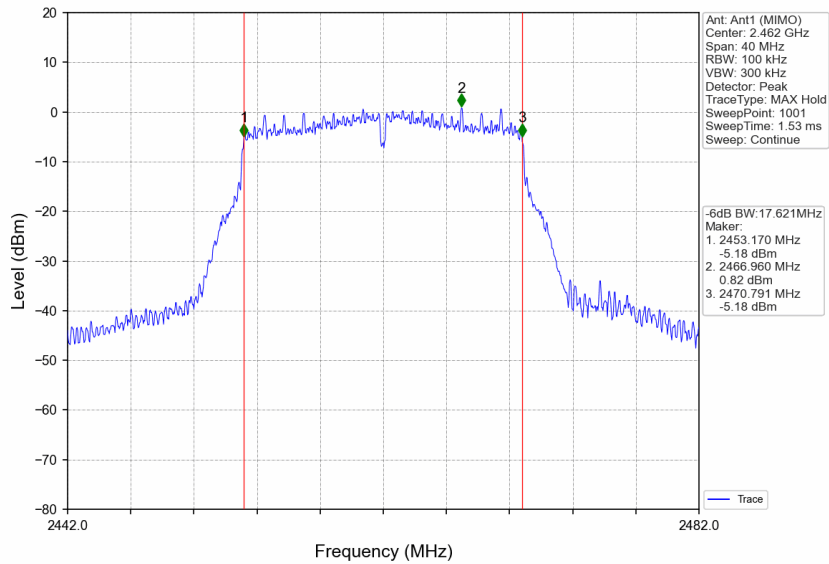
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTVN



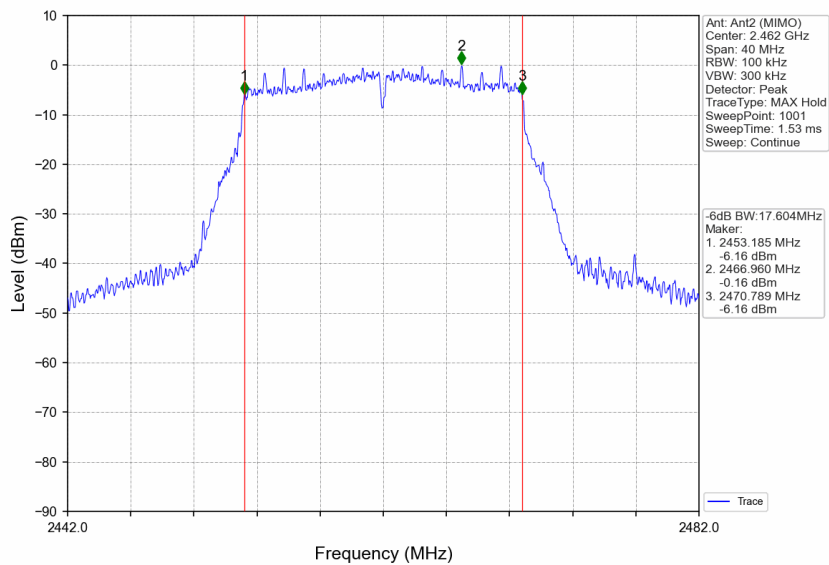
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	18.30	18.50	/	<=30	Pass
		2437	17.51	18.68	/	<=30	Pass
		2462	17.89	19.05	/	<=30	Pass
802.11g	SISO	2412	13.76	13.52	/	<=30	Pass
		2437	13.41	13.34	/	<=30	Pass
		2462	13.45	13.40	/	<=30	Pass
802.11n (HT20)	MIMO	2412	12.17	12.22	15.21	<=28.82	Pass
		2437	12.29	11.75	15.04	<=28.82	Pass
		2462	12.45	11.17	14.87	<=28.82	Pass

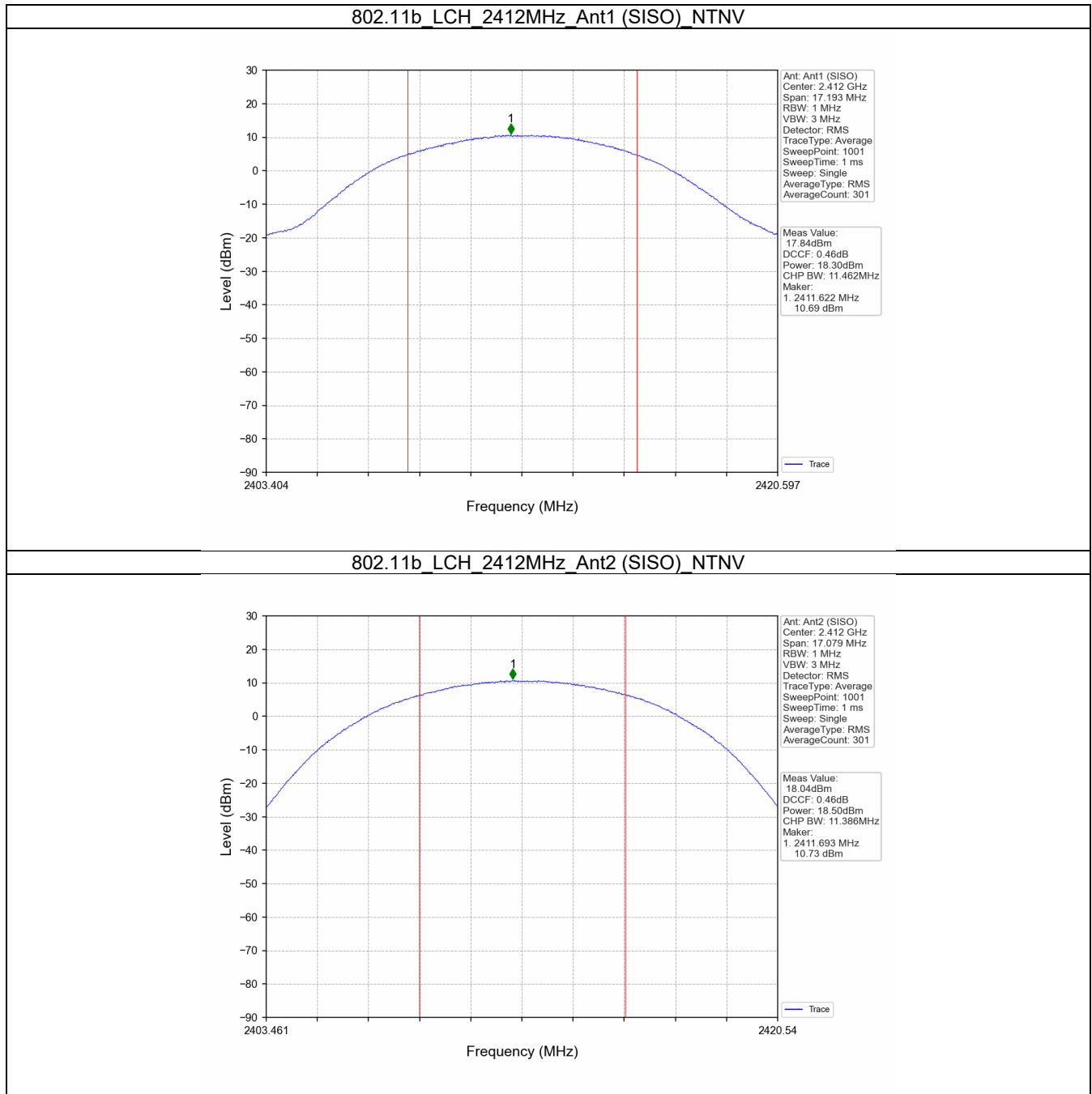
Note1: Antenna Gain: Ant1: 4.80dBi; Ant2: 3.48dBi;
 Note2: Directional Gain: 7.18dBi



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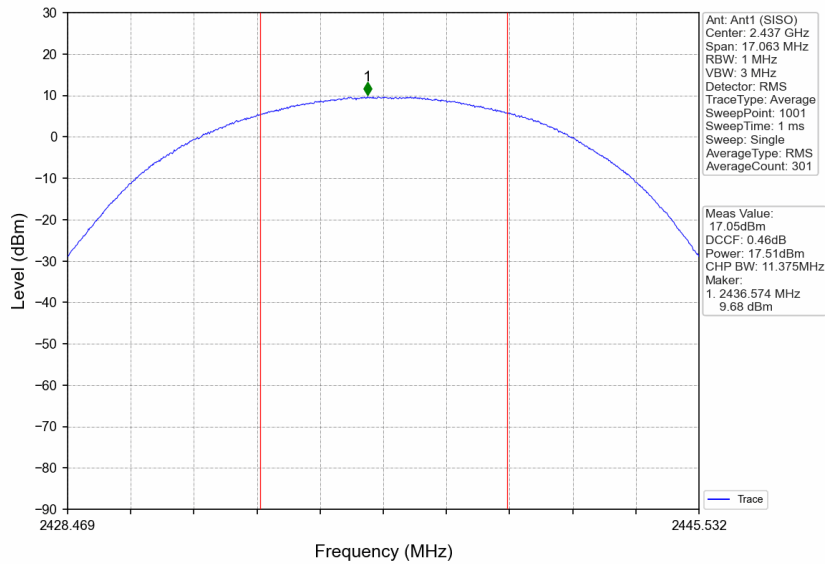
3.1.2 Test Graph



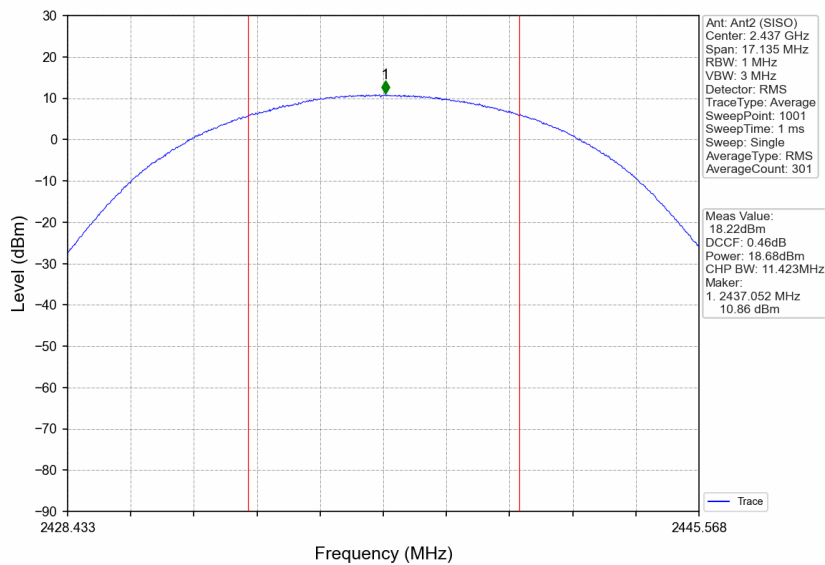
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802.11b MCH 2437MHz Ant1 (SISO) NTN



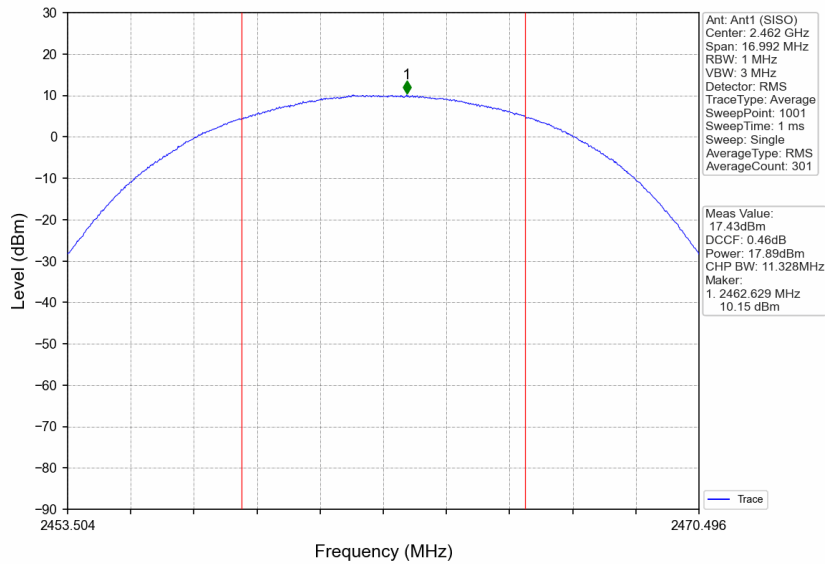
802.11b MCH 2437MHz Ant2 (SISO) NTN



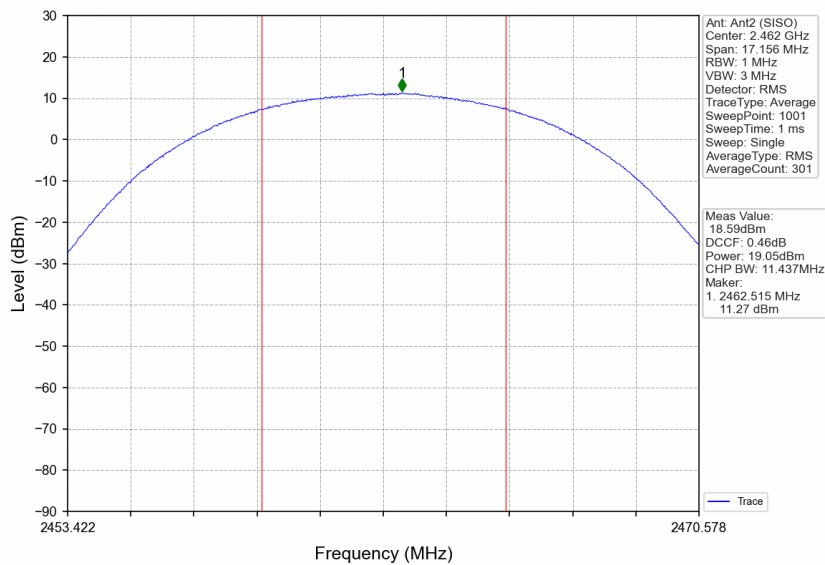
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802.11b HCH 2462MHz Ant1 (SISO) NTVN



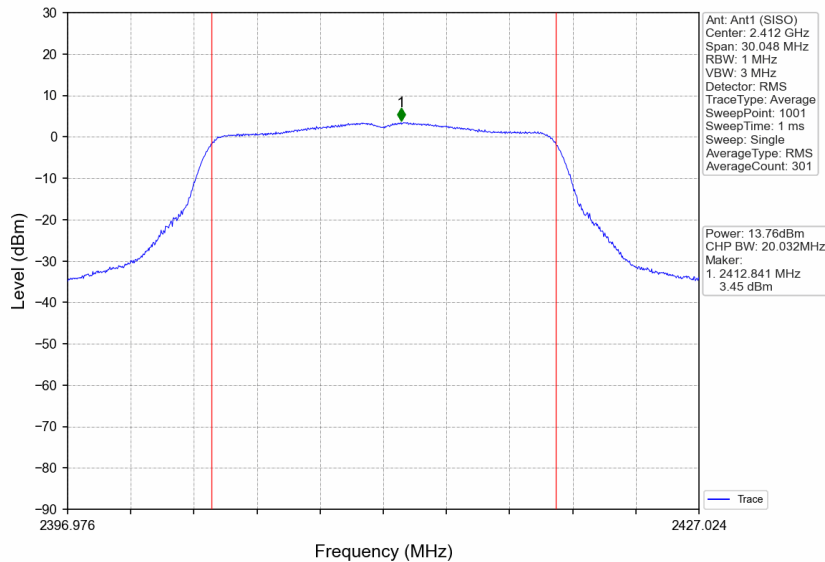
802.11b HCH 2462MHz Ant2 (SISO) NTVN



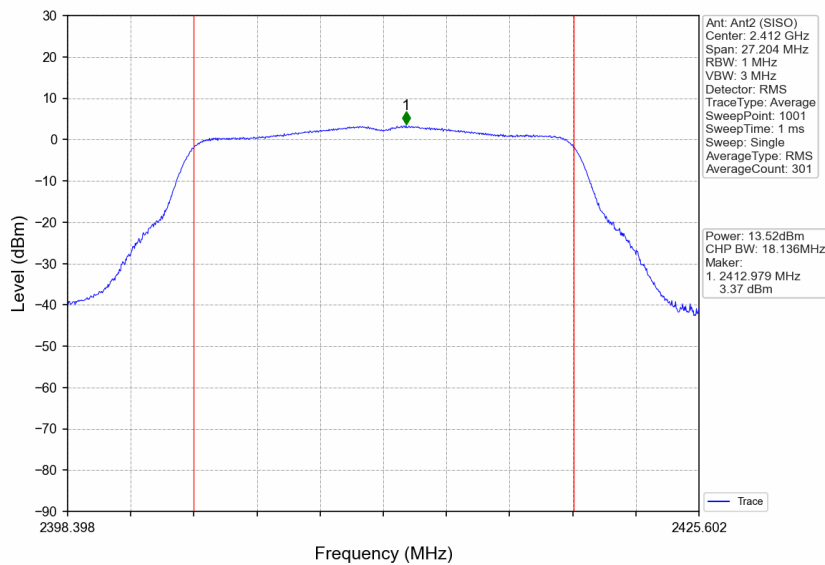
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



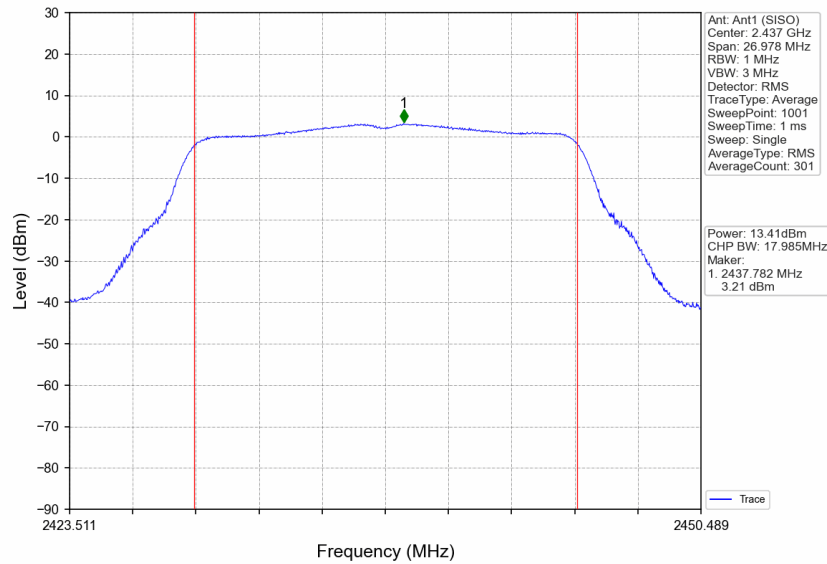
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



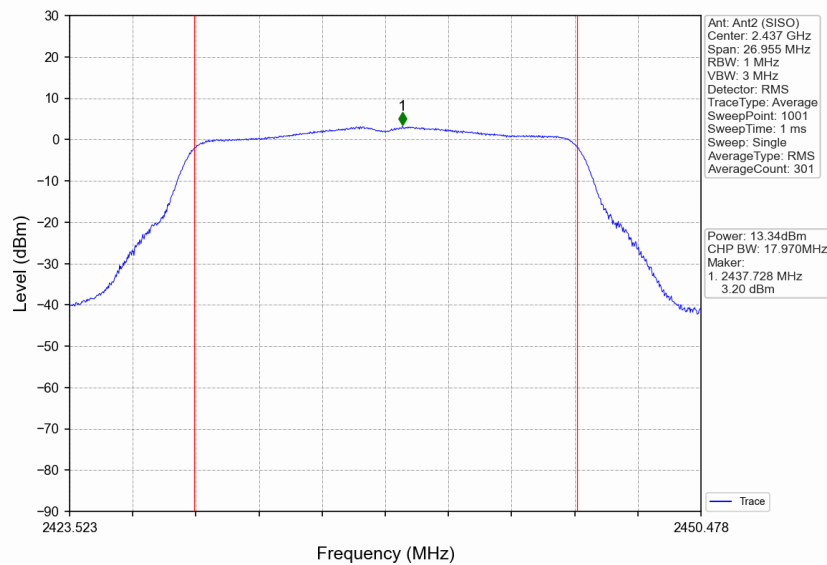
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802.11g MCH 2437MHz Ant1 (SISO) NTN



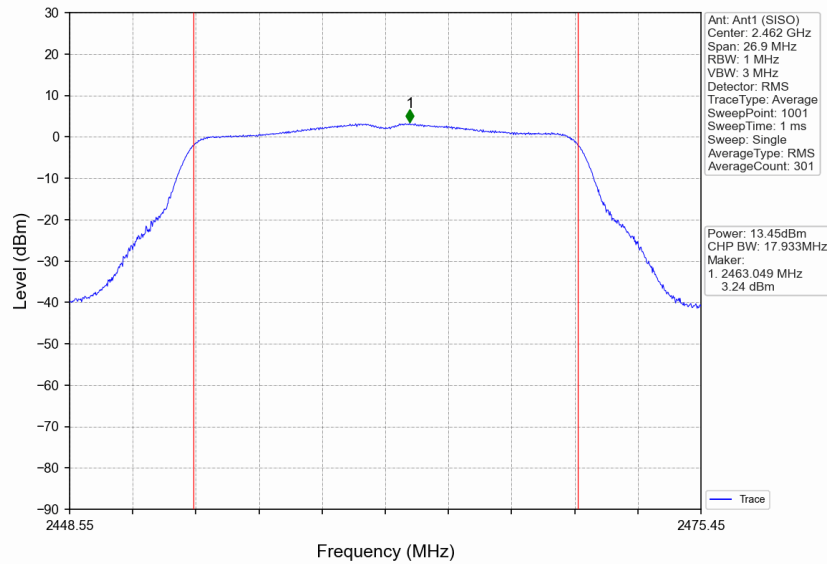
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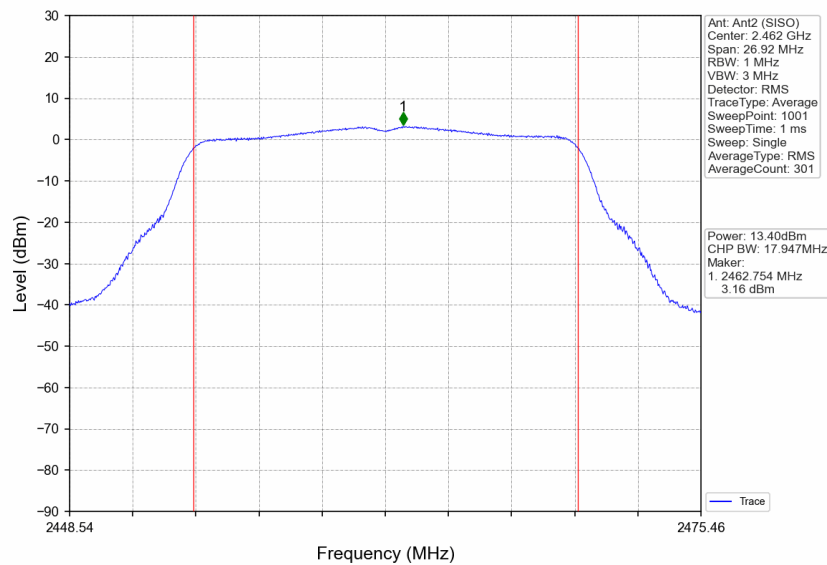
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802.11g HCH 2462MHz Ant1 (SISO) NTVN



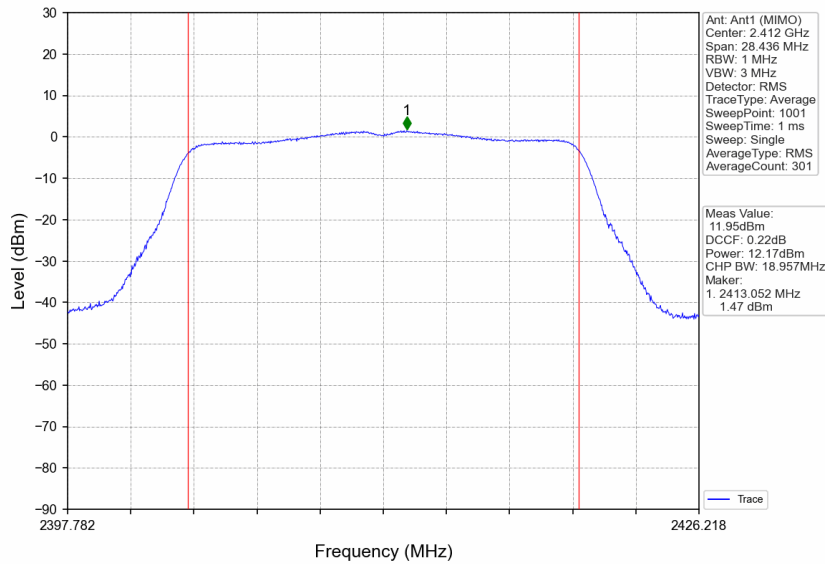
802.11g HCH 2462MHz Ant2 (SISO) NTVN



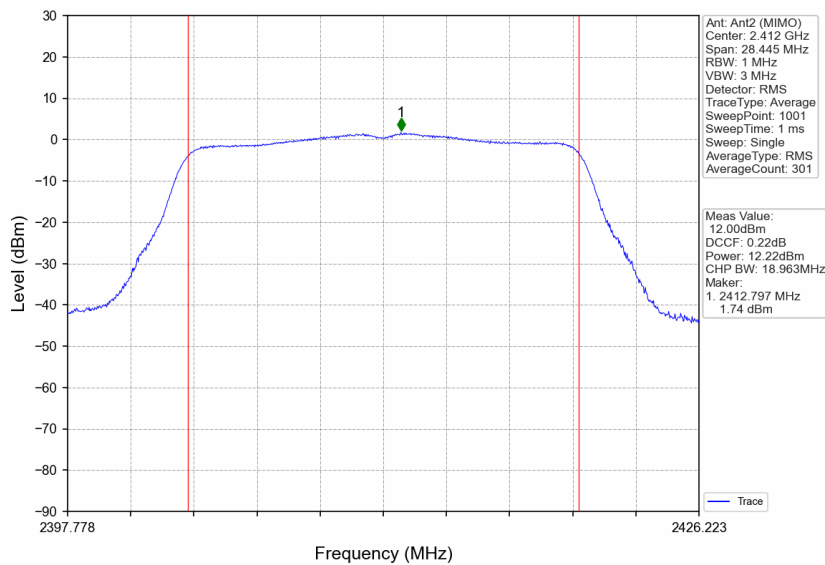
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTN



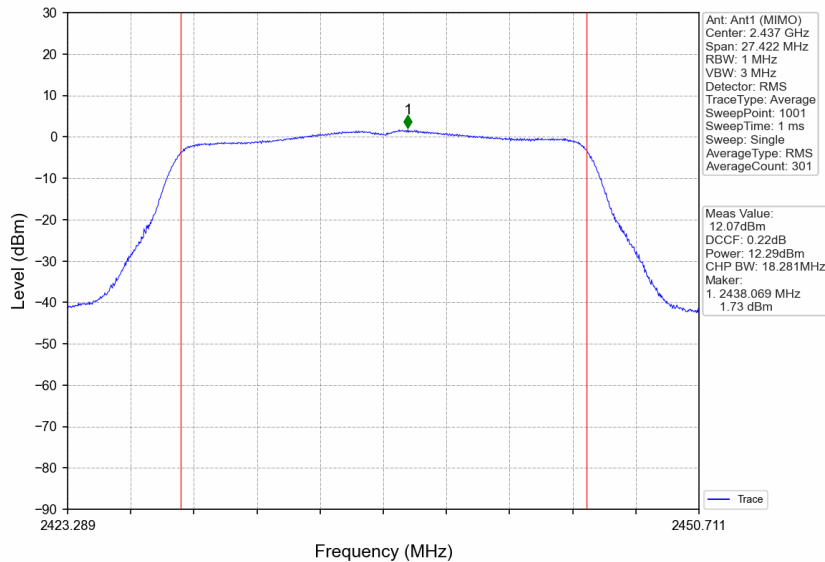
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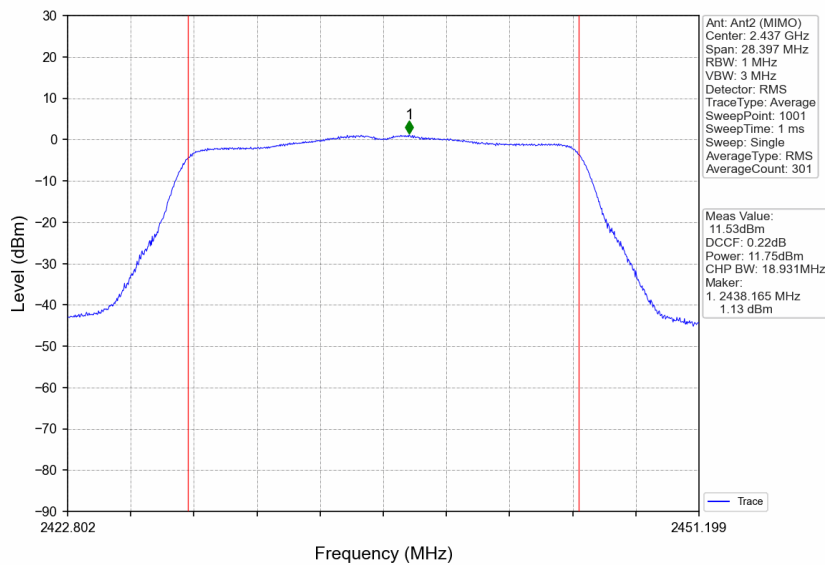
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



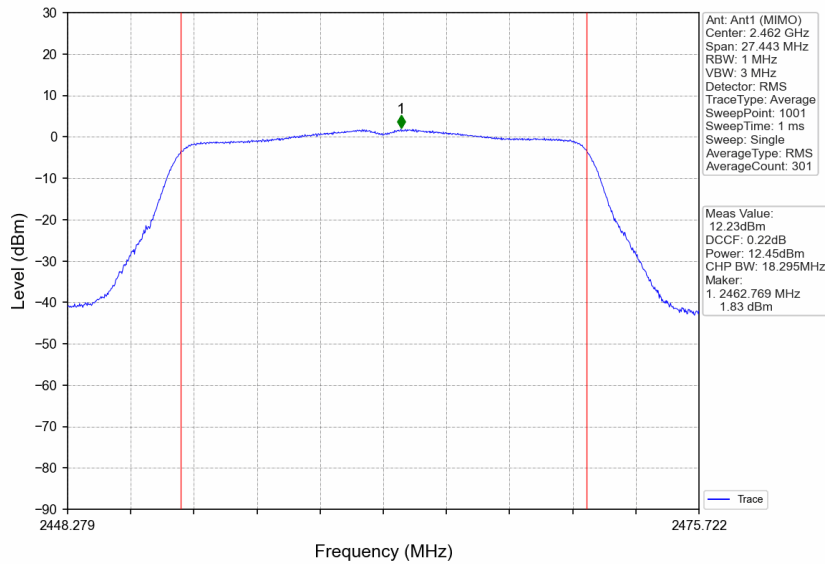
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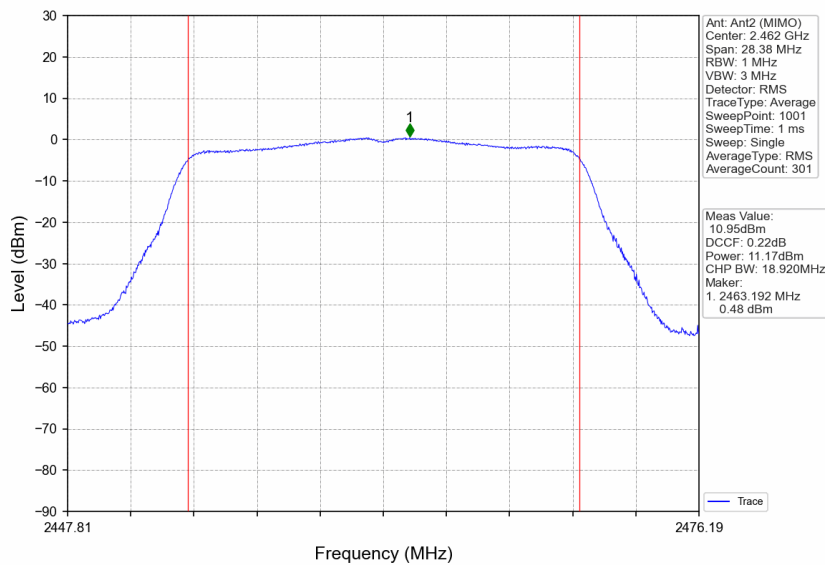
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-3.60	-4.20	/	<=8	Pass
		2437	-5.27	-4.19	/	<=8	Pass
		2462	-5.20	-3.77	/	<=8	Pass
802.11g	SISO	2412	-10.84	-11.23	/	<=8	Pass
		2437	-11.23	-11.40	/	<=8	Pass
		2462	-12.34	-10.46	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-12.93	-12.61	-10.95	<=6.82	Pass
		2437	-12.93	-13.85	-10.74	<=6.82	Pass
		2462	-12.74	-12.91	-9.84	<=6.82	Pass

Note1: Antenna Gain: Ant1: 4.80dBi; Ant2: 3.48dBi;
 Note2: Directional Gain: 7.18dBi



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