

Appendix RF test data for WIFI2.4G

1. Duty Cycle

1.1 Test Result

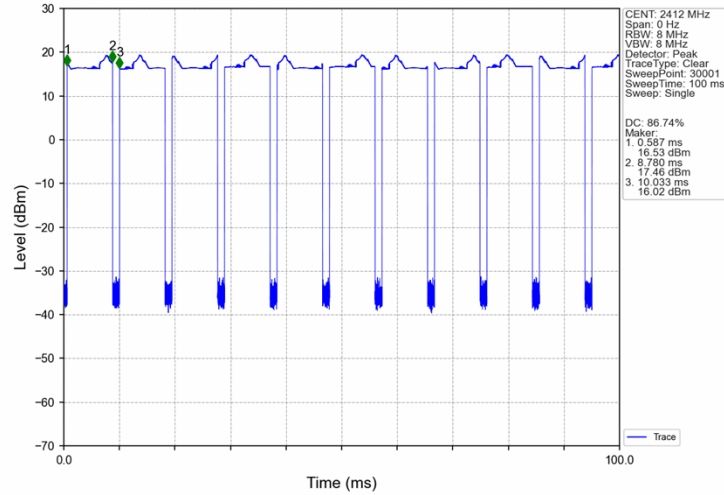
1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.193	9.446	86.74	0.62	0.04
		2437	/	/	8.193	9.447	86.73	0.62	0.03
		2462	/	/	8.190	9.443	86.73	0.62	0.04
802.11g	SISO	2412	/	/	1.361	2.613	52.09	2.83	0.02
		2437	/	/	1.360	2.612	52.07	2.83	0.02
		2462	/	/	1.361	2.613	52.09	2.83	0.02
802.11n (HT20)	SISO	2412	/	/	1.149	2.400	47.88	3.20	0.02
		2437	/	/	1.150	2.402	47.88	3.20	0.03
		2462	/	/	1.150	2.402	47.88	3.20	0.00
802.11n (HT40)	SISO	2422	/	/	0.574	1.826	31.43	5.03	0.03
		2437	/	/	0.574	1.826	31.43	5.03	0.03
		2452	/	/	0.573	1.825	31.40	5.03	0.02
802.11ax (HEW20)	SISO	2412	SU	/	0.990	2.243	44.14	3.55	0.04
		2437	SU	/	0.990	2.243	44.14	3.55	0.02
		2462	SU	/	0.990	2.243	44.14	3.55	0.04
802.11ax (HEW40)	SISO	2422	SU	/	0.520	1.773	29.33	5.33	0.03
		2437	SU	/	0.520	1.773	29.33	5.33	0.02
		2452	SU	/	0.520	1.773	29.33	5.33	0.02

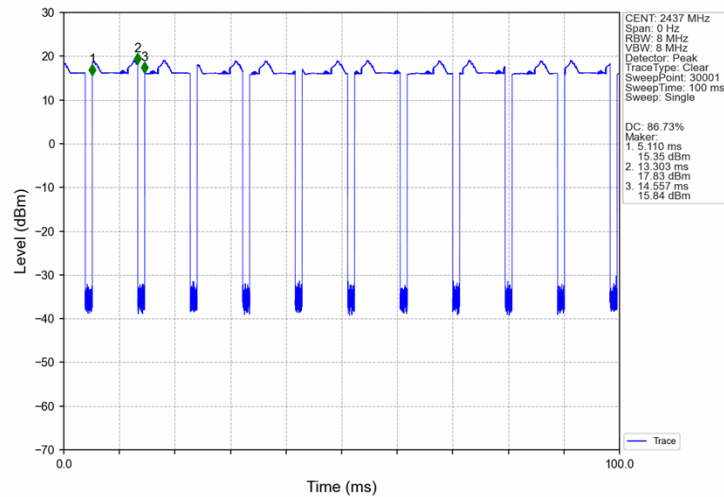
1.2 Test Graph

1.2.1 Ant1

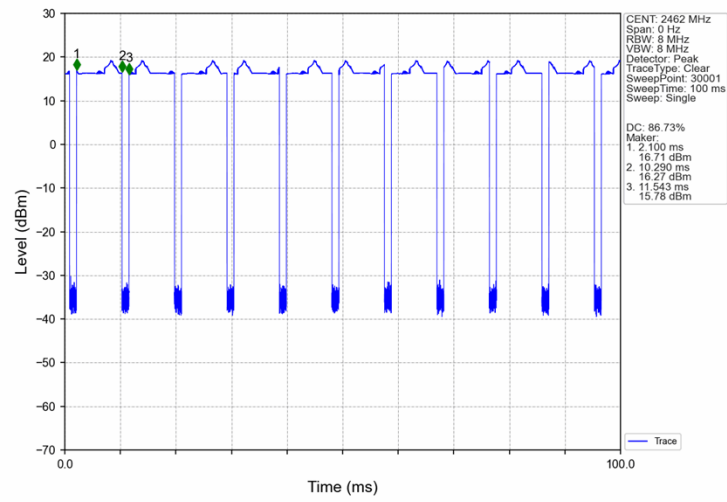
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



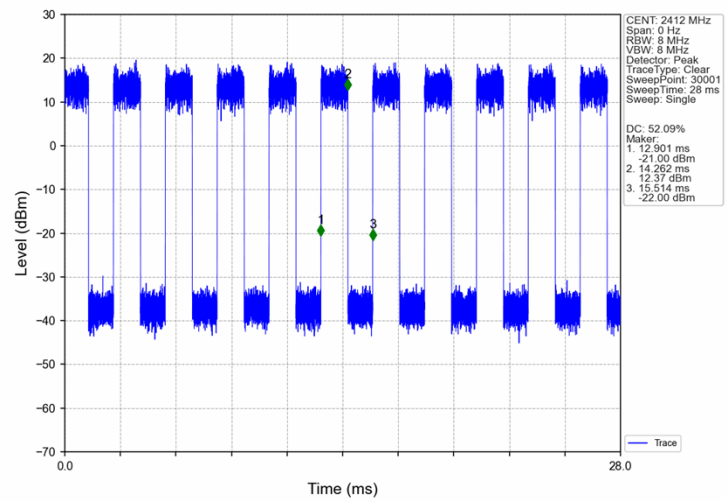
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



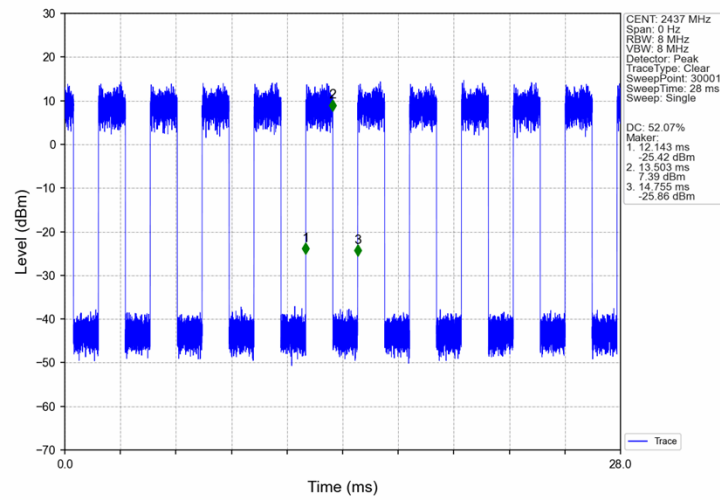
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



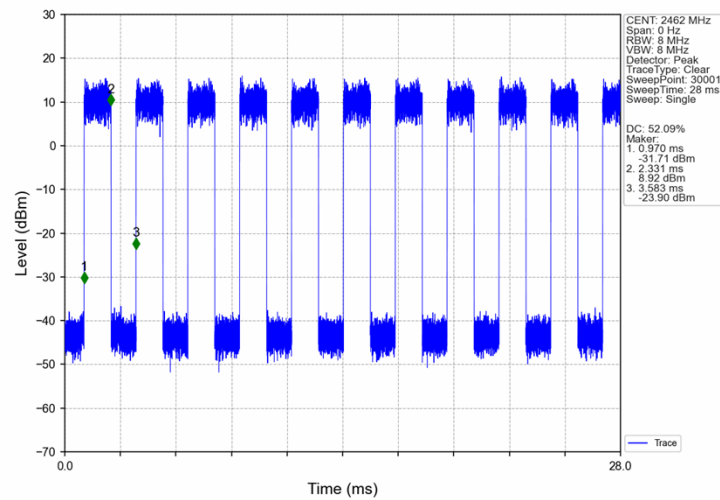
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



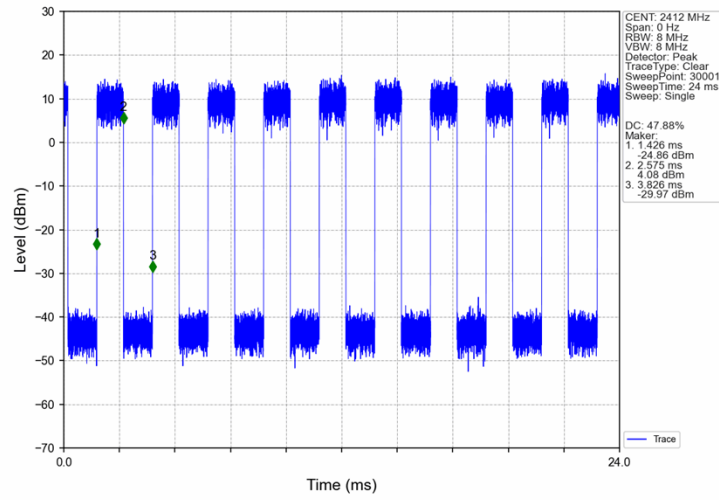
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



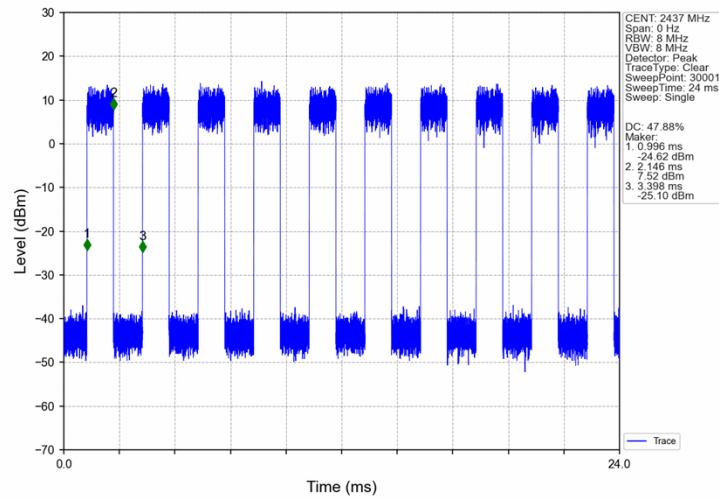
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



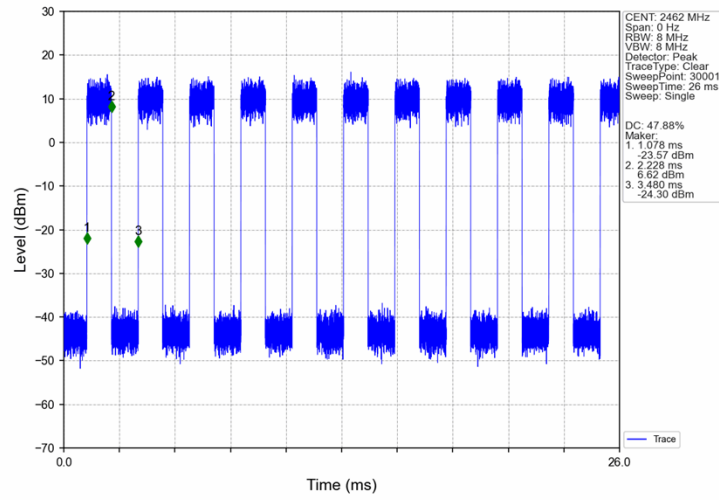
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



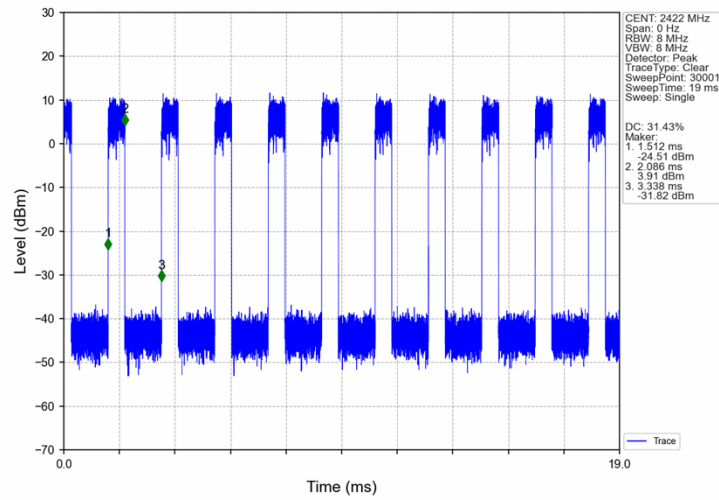
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



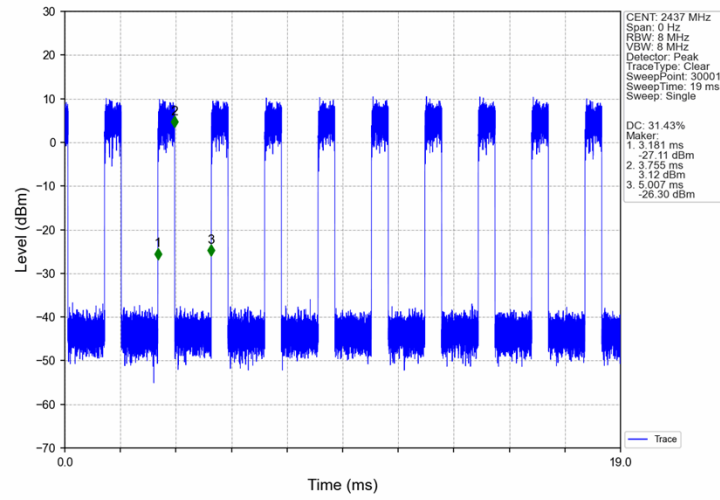
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



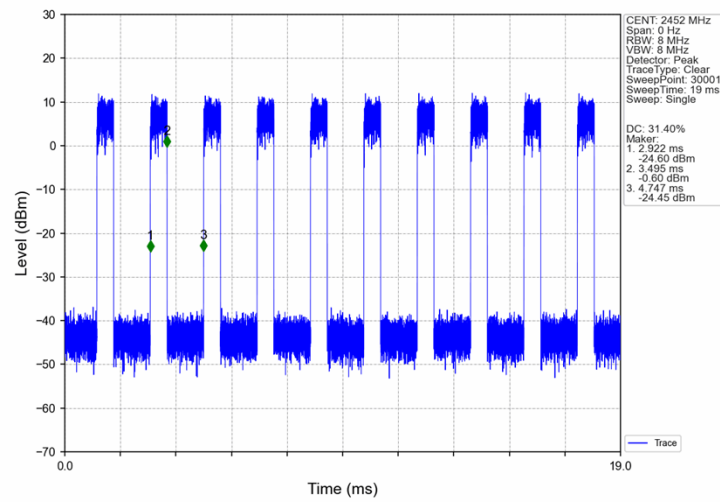
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



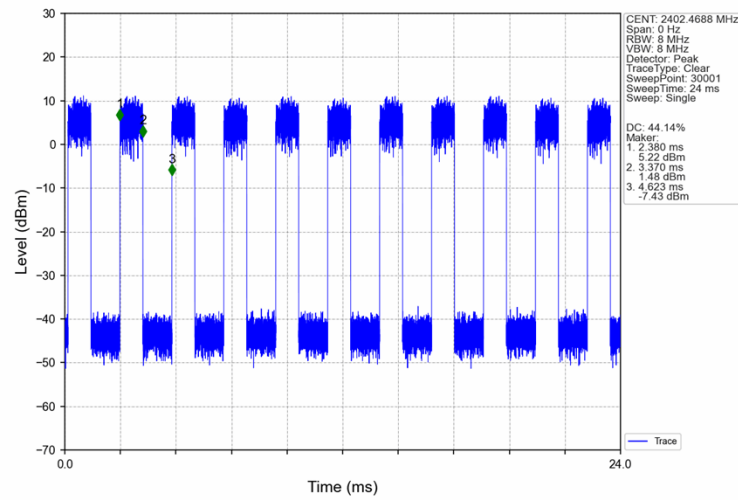
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



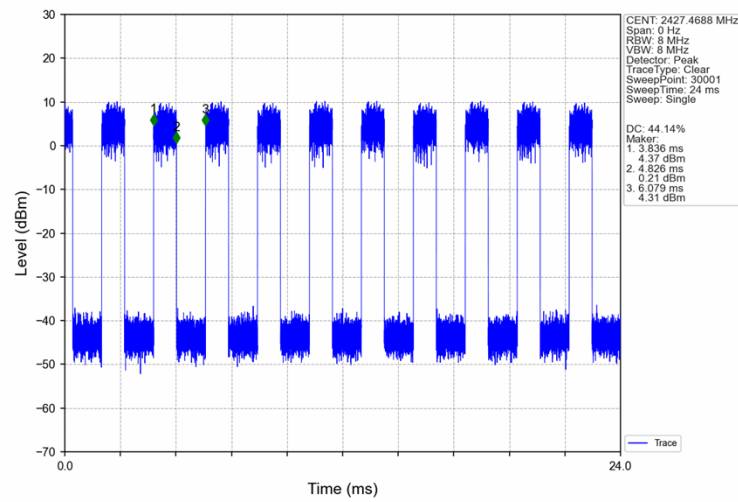
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



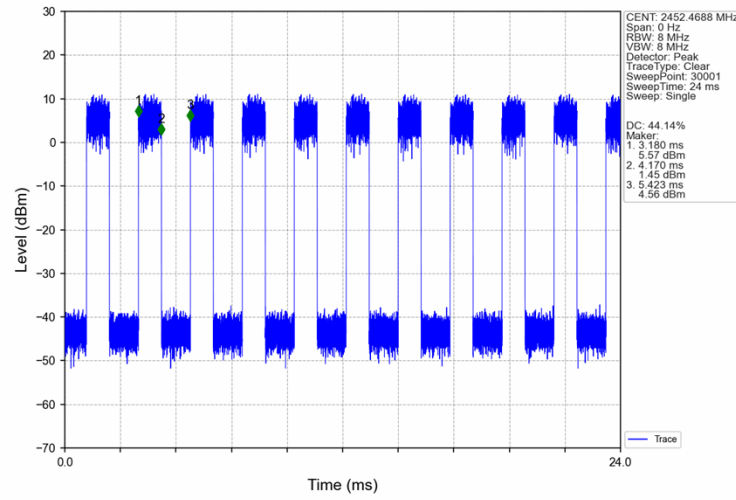
802.11ax(HEW20)_LCH_2412MHz_SU_ / _Ant1 (SISO)_NTNV



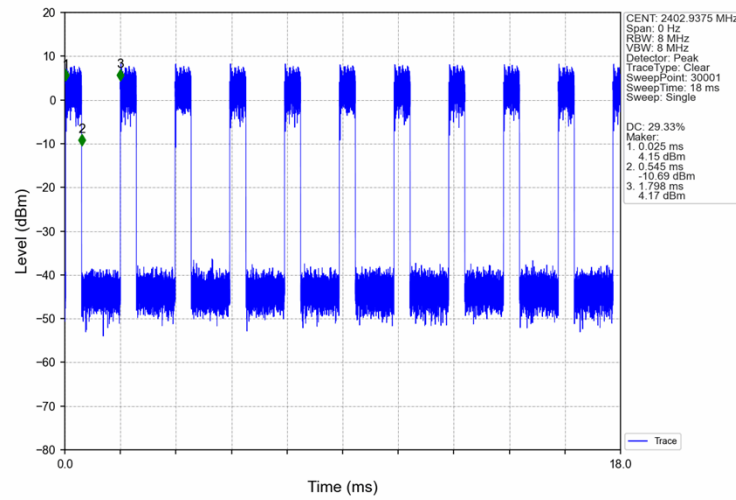
802.11ax(HEW20)_MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV



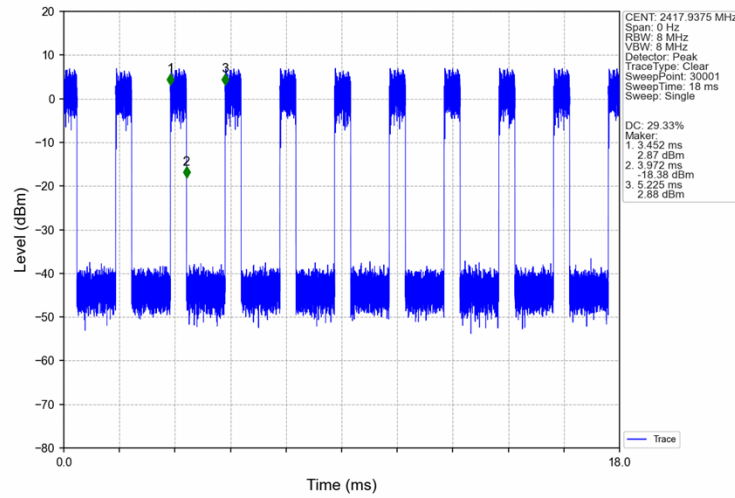
802.11ax(HEW20)_HCH_2462MHz_SU_ / _Ant1 (SISO)_NTNV



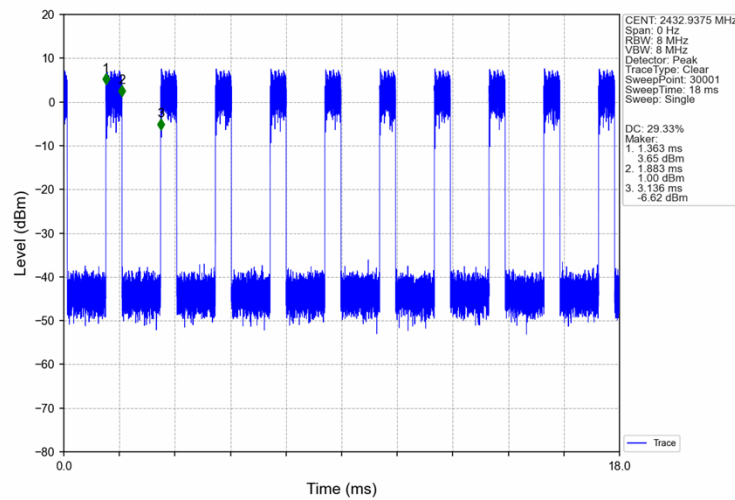
802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_ / _Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	14.974	/	Pass
		2437	/	/	1	14.962	/	Pass
		2462	/	/	1	14.898	/	Pass
802.11g	SISO	2412	/	/	1	16.555	/	Pass
		2437	/	/	1	16.526	/	Pass
		2462	/	/	1	16.508	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.809	/	Pass
		2437	/	/	1	17.810	/	Pass
		2462	/	/	1	17.765	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	37.341	/	Pass
		2437	/	/	1	37.726	/	Pass
		2452	/	/	1	37.285	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.988	/	Pass
		2437	SU	/	1	18.960	/	Pass
		2462	SU	/	1	18.963	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	38.253	/	Pass
		2437	SU	/	1	38.482	/	Pass
		2452	SU	/	1	38.054	/	Pass

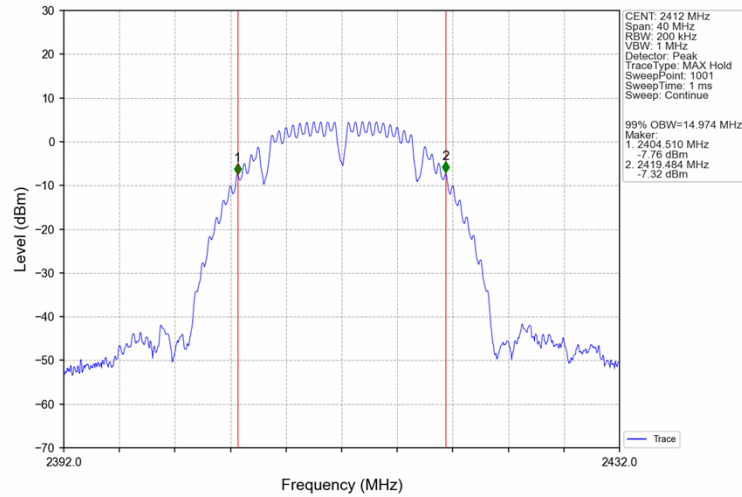
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	12.104	≥ 0.5	Pass
		2437	/	/	1	12.068	≥ 0.5	Pass
		2462	/	/	1	11.172	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.465	≥ 0.5	Pass
		2437	/	/	1	16.480	≥ 0.5	Pass
		2462	/	/	1	16.438	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.670	≥ 0.5	Pass
		2437	/	/	1	17.649	≥ 0.5	Pass
		2462	/	/	1	17.621	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.903	≥ 0.5	Pass
		2437	/	/	1	36.552	≥ 0.5	Pass
		2452	/	/	1	36.944	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.007	≥ 0.5	Pass
		2437	SU	/	1	18.979	≥ 0.5	Pass
		2462	SU	/	1	18.945	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	38.032	≥ 0.5	Pass
		2437	SU	/	1	38.311	≥ 0.5	Pass
		2452	SU	/	1	37.880	≥ 0.5	Pass

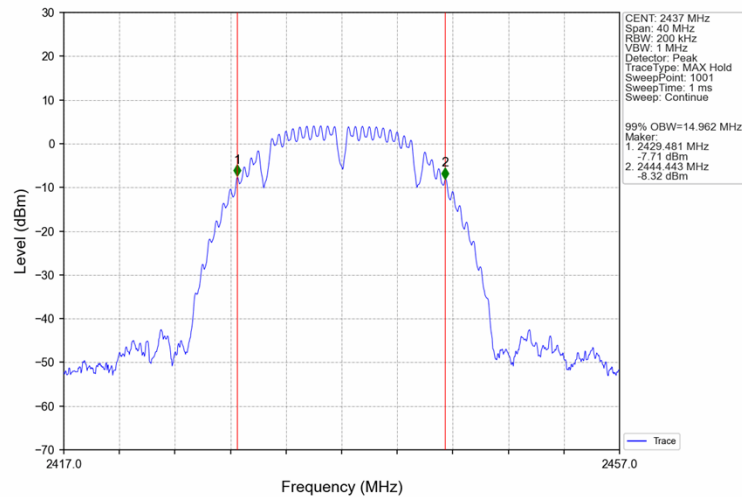
2.2 Test Graph

2.2.1 OBW

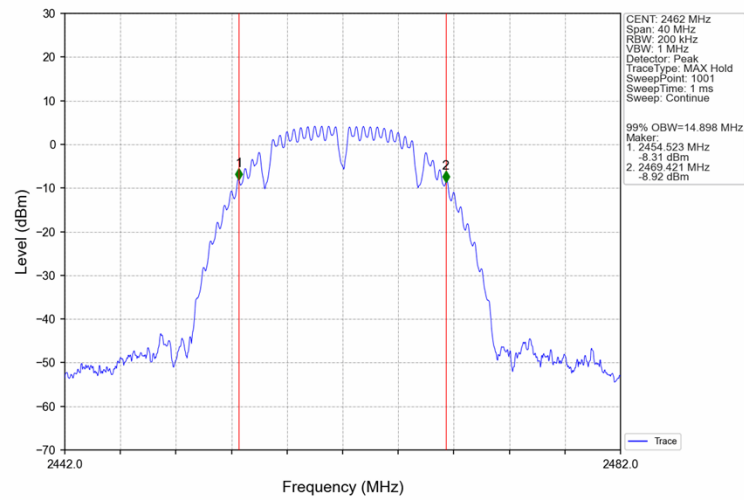
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



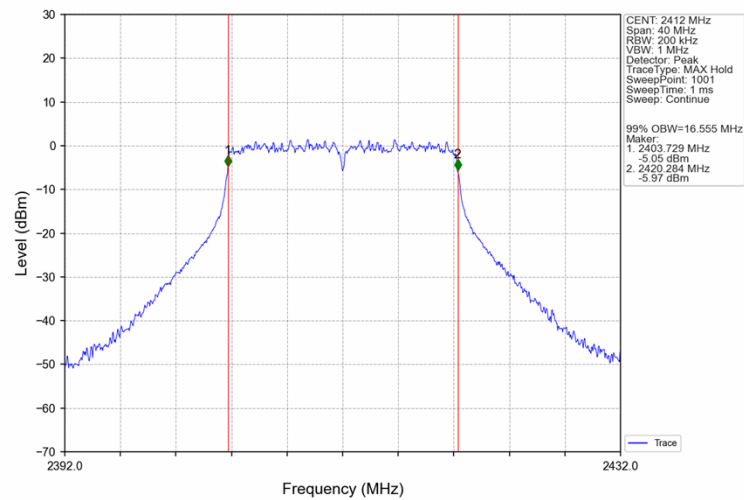
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



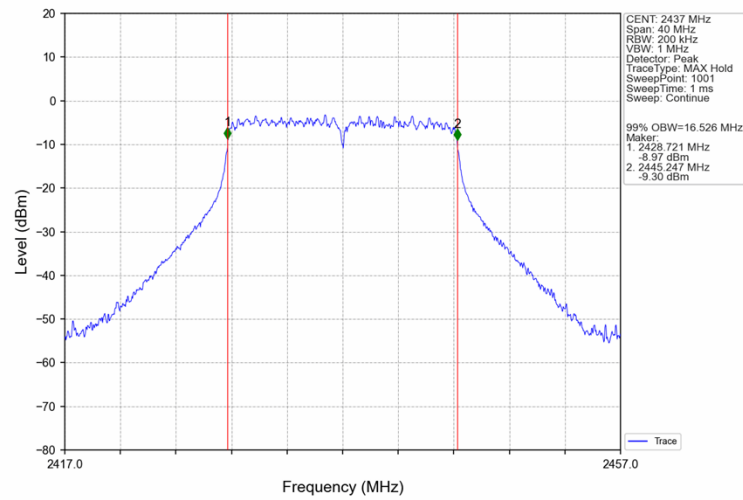
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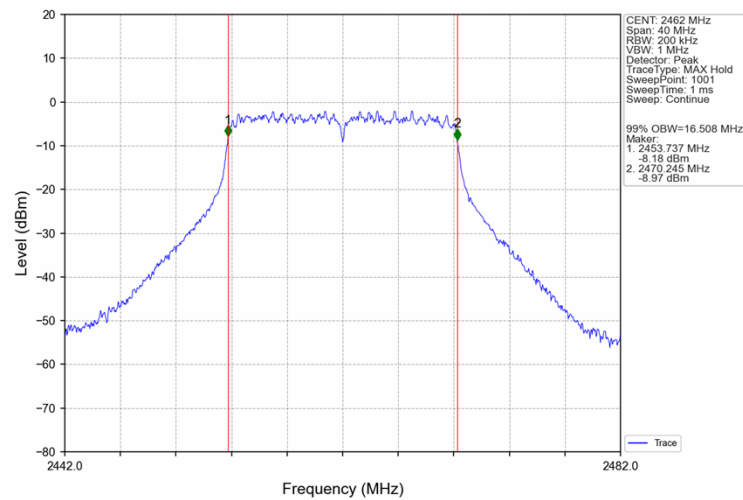
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



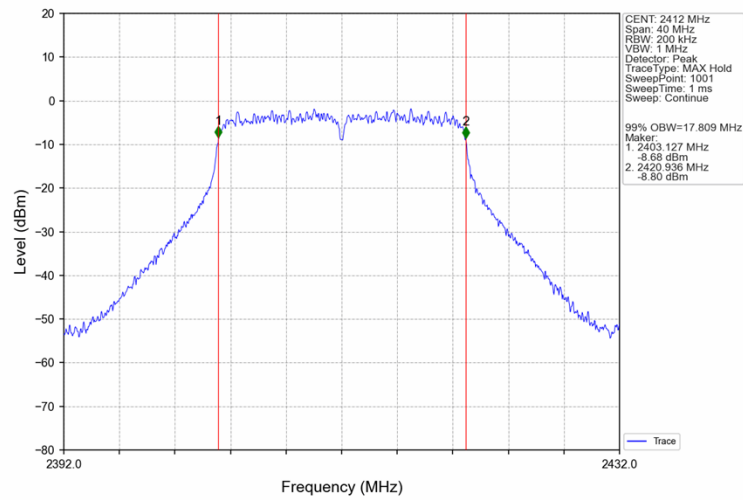
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



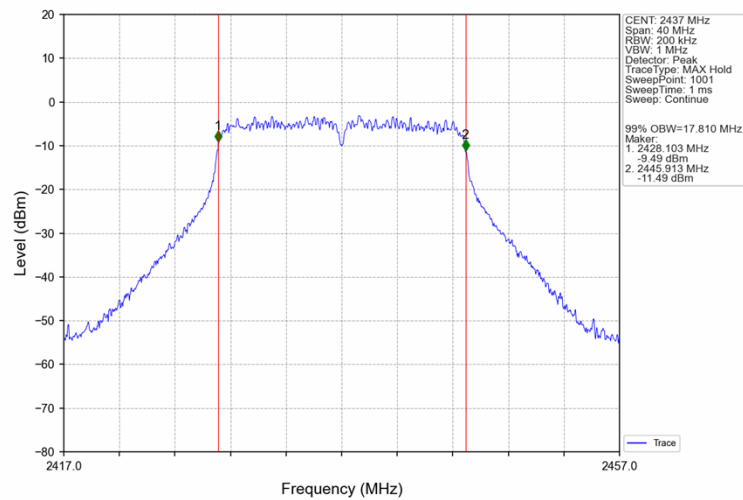
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



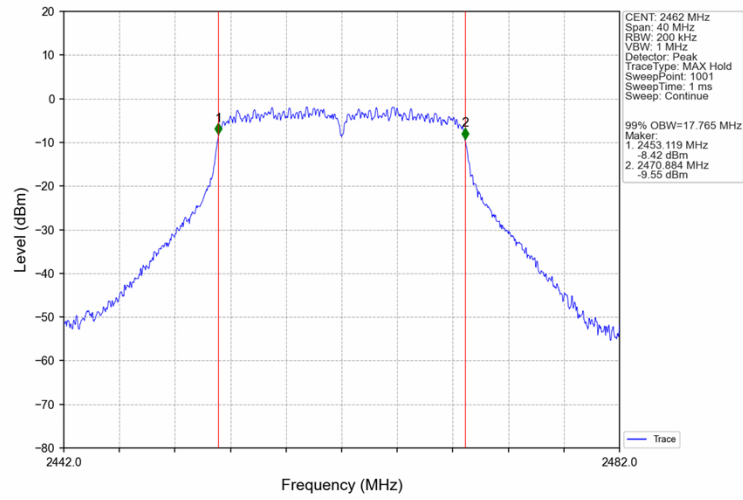
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



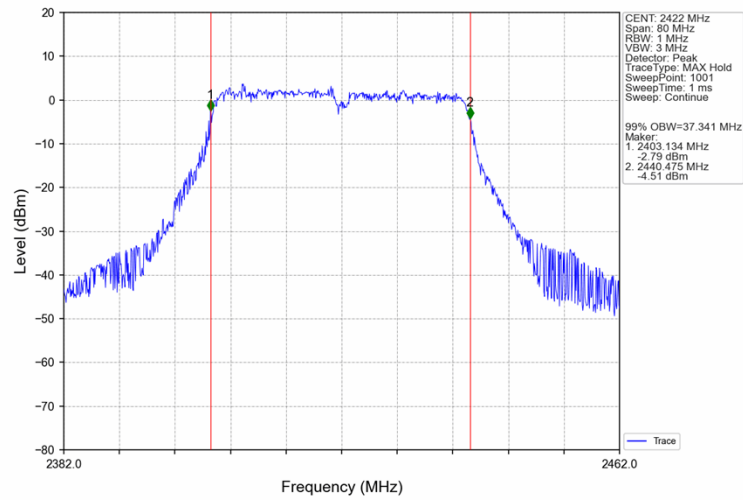
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



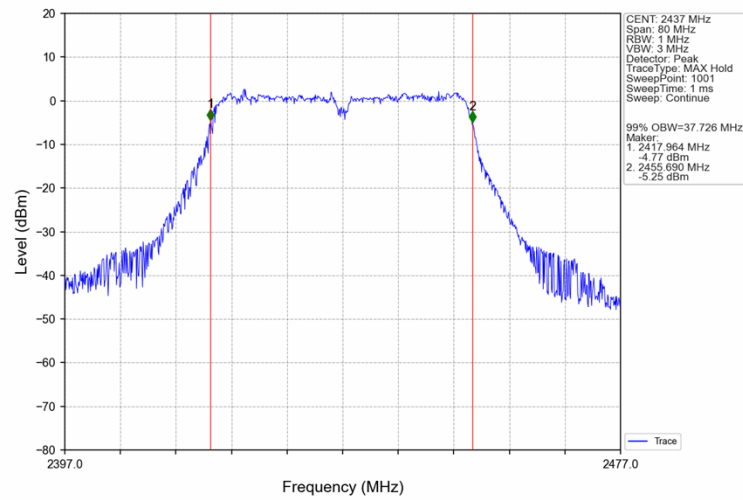
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



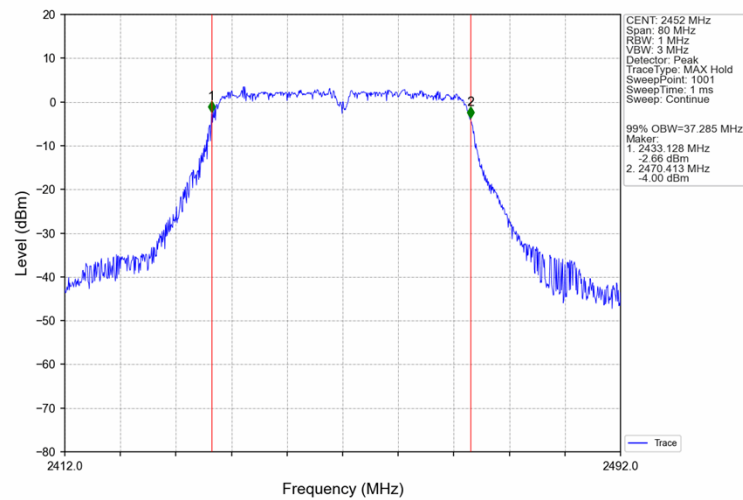
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



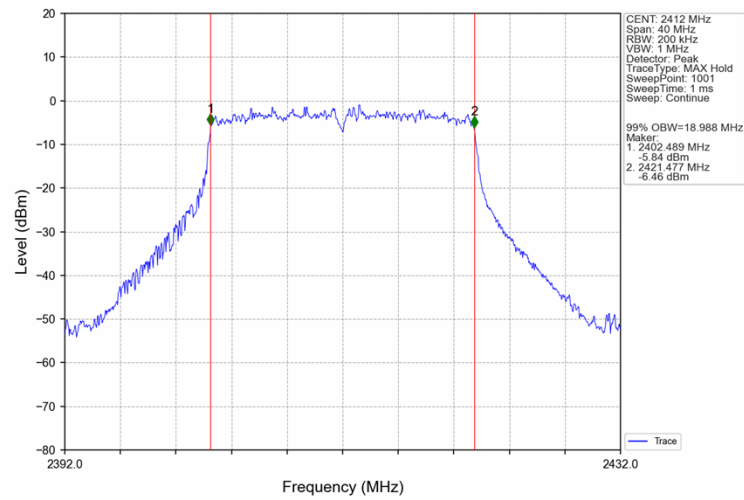
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



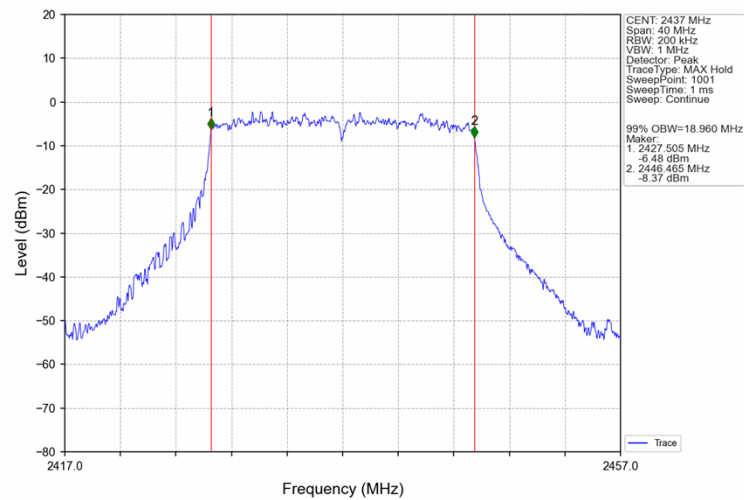
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



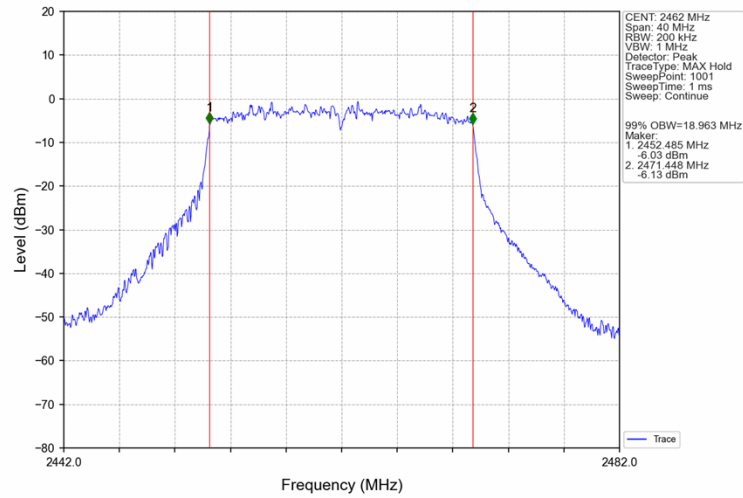
802.11ax(HEW20)_LCH_2412MHz_SU_ / _Ant1 (SISO)_NTNV



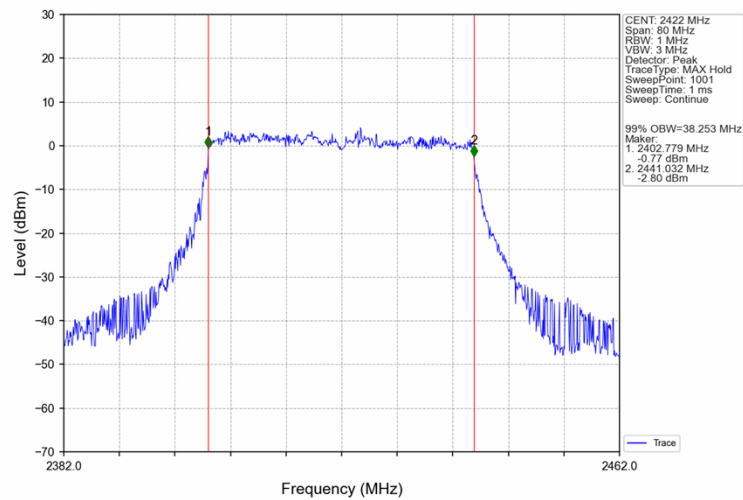
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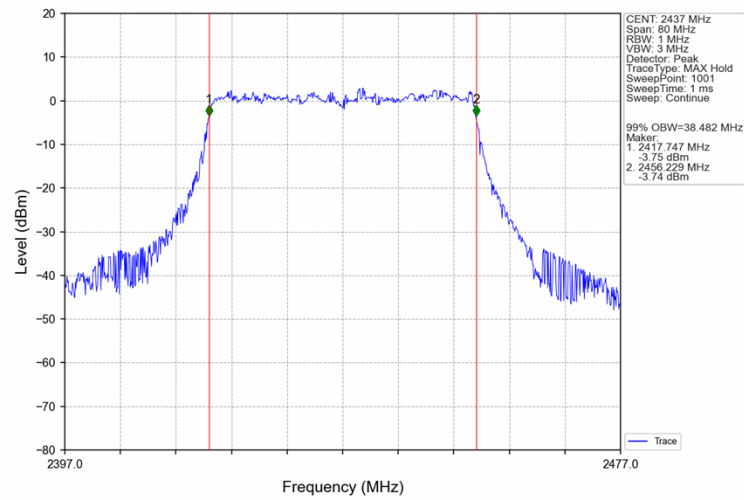
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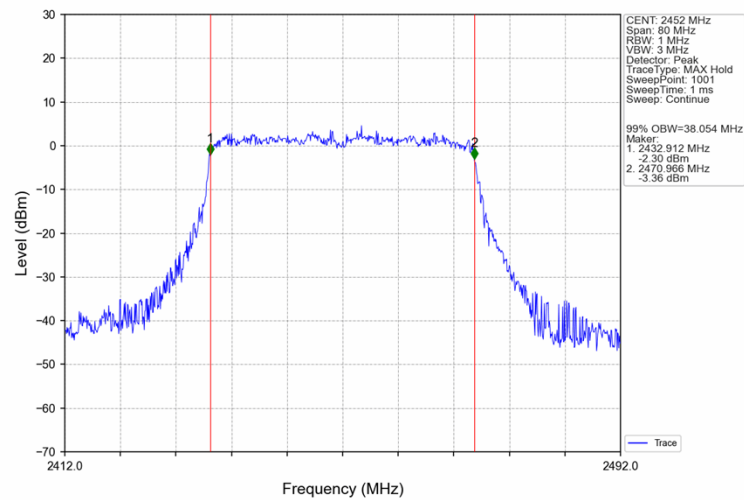
802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV

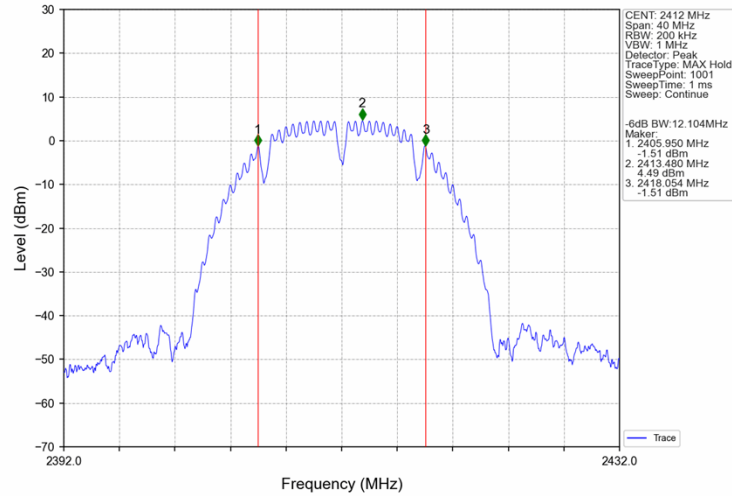


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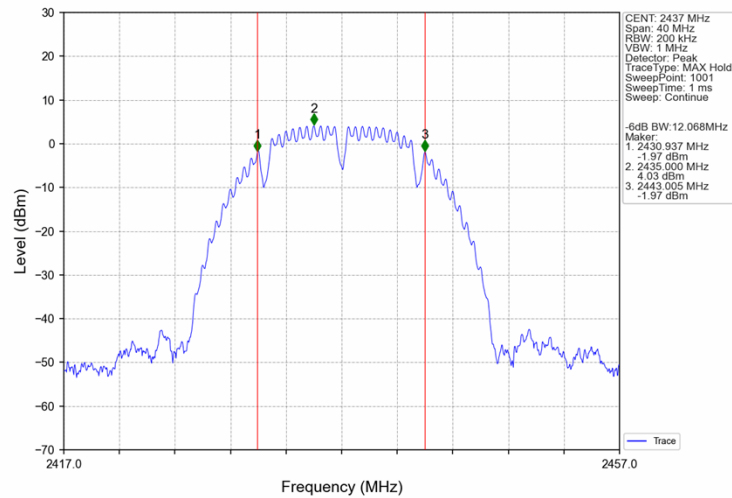


2.2.2 6dB BW

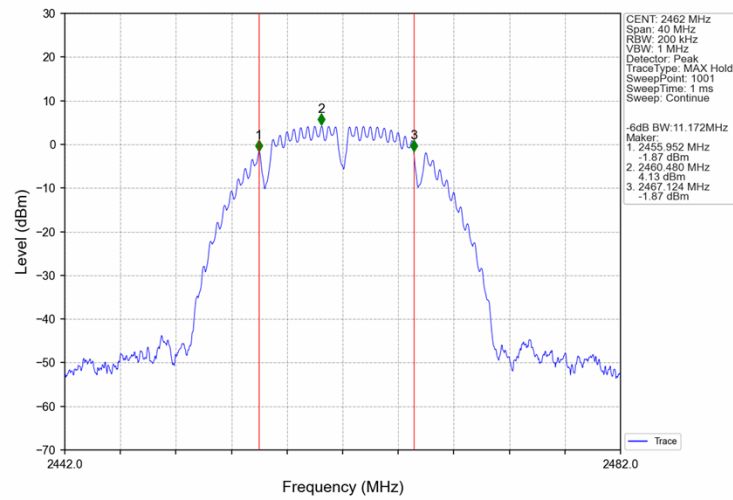
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



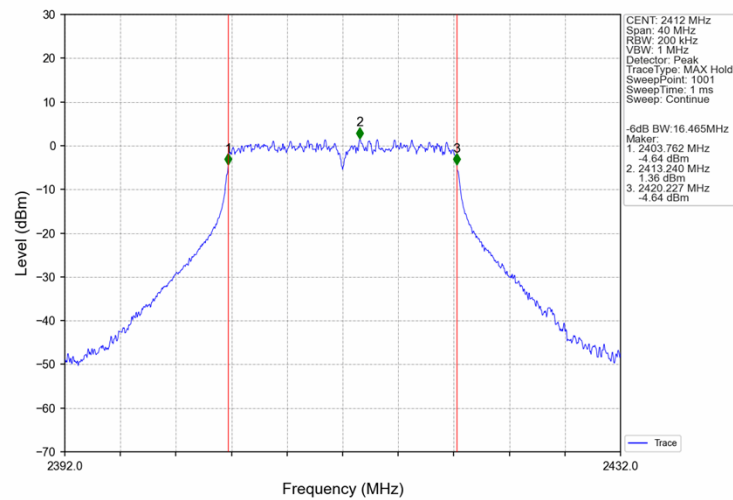
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



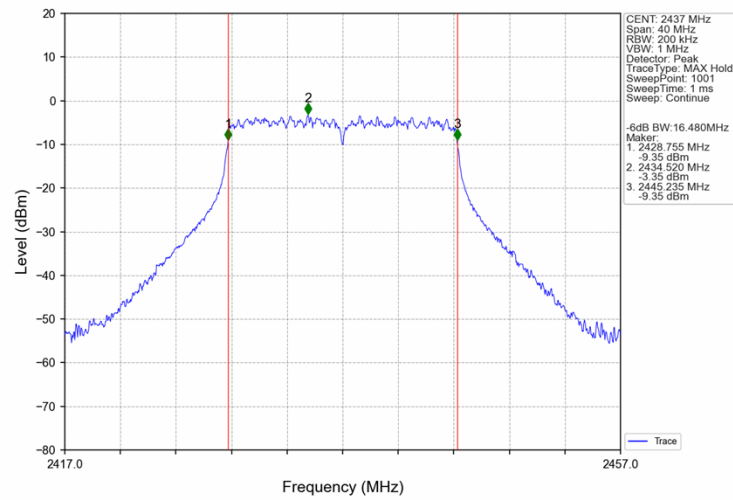
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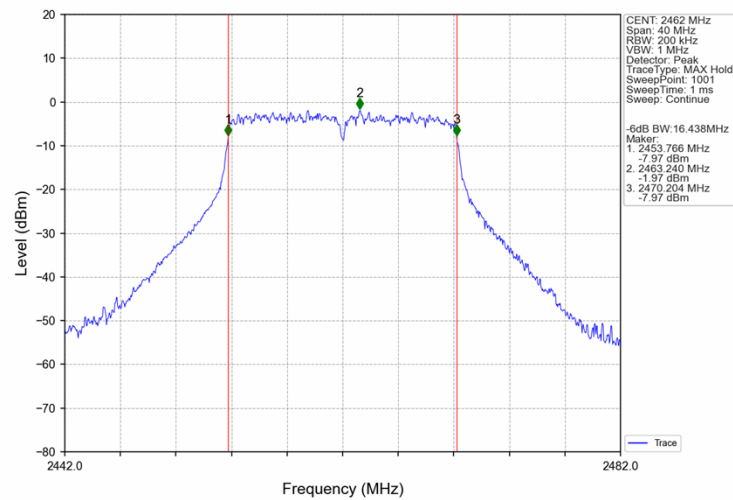
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



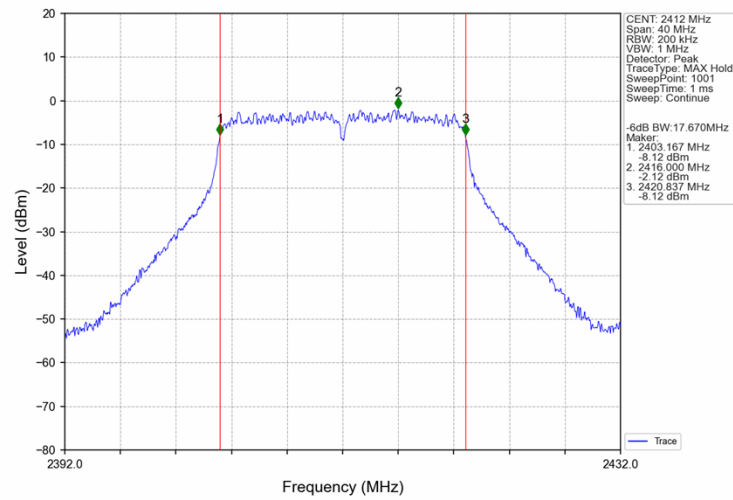
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



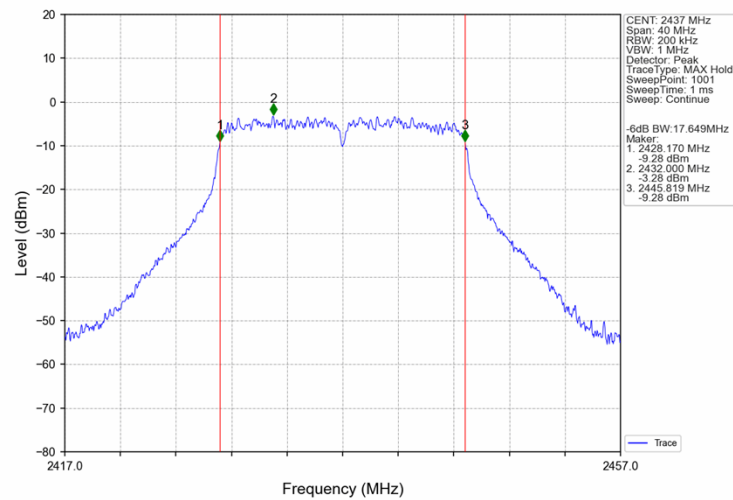
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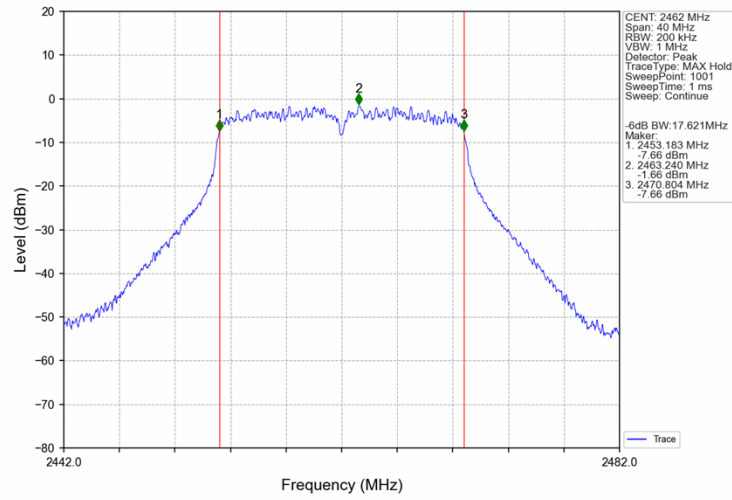
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



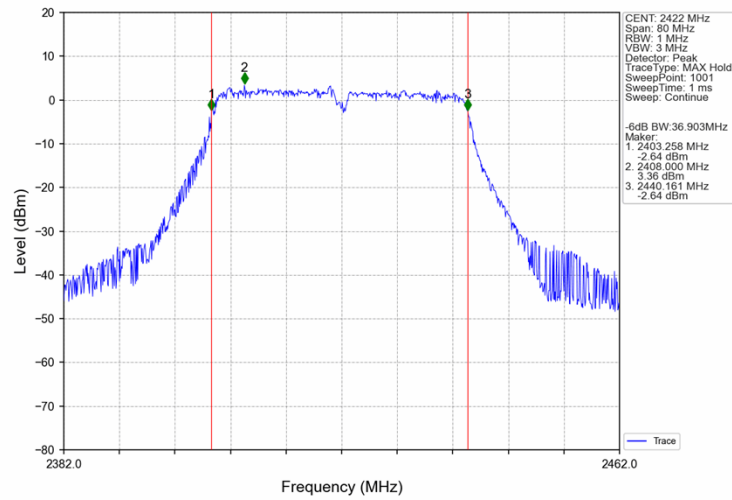
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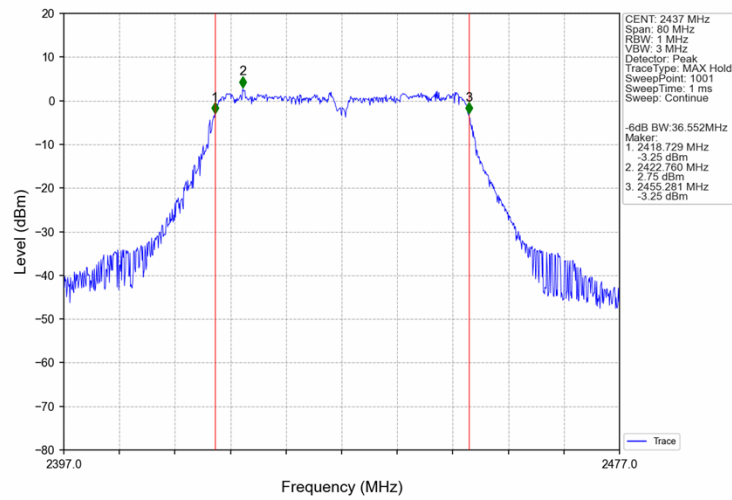
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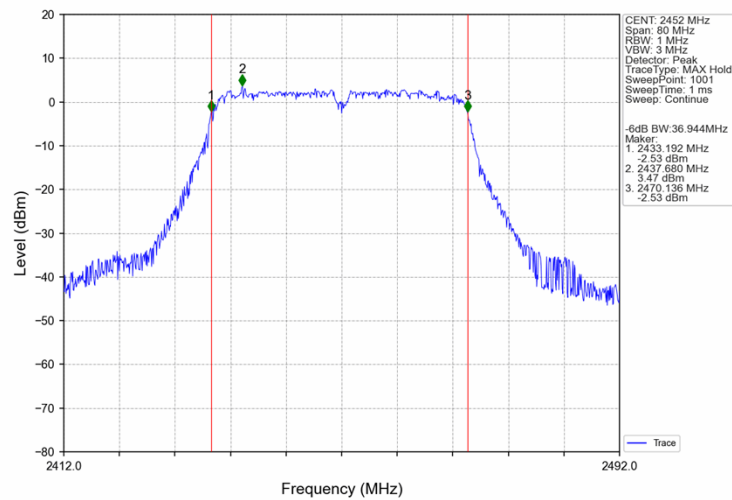
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



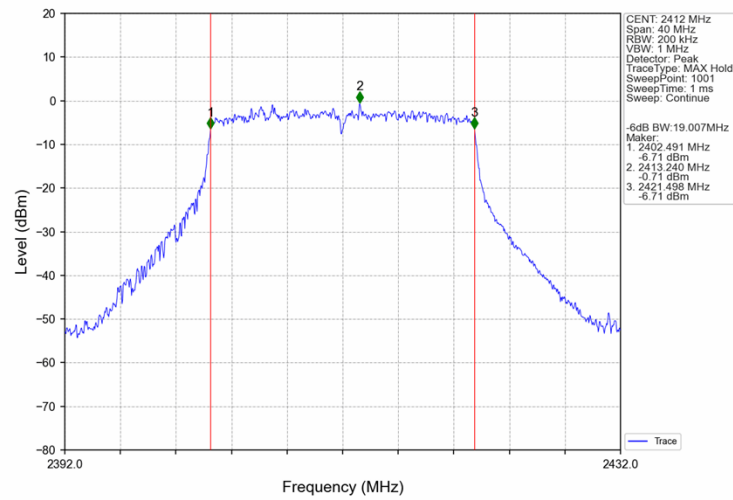
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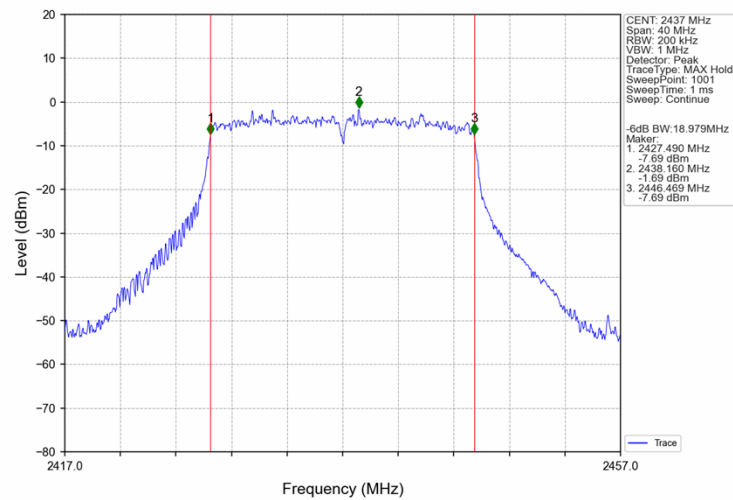
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



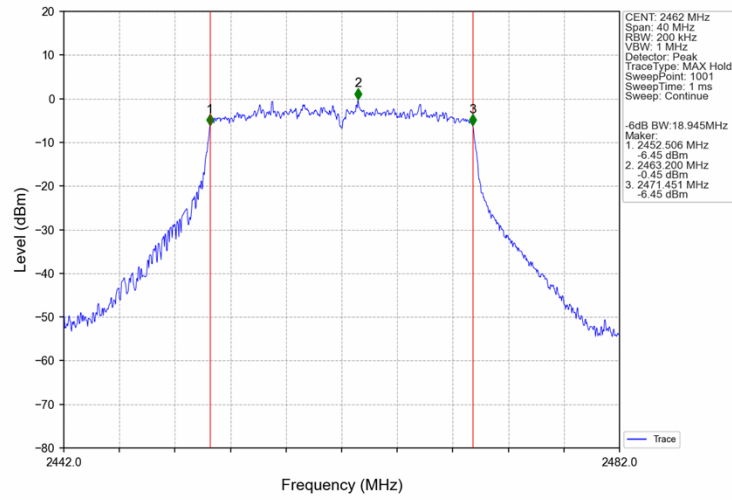
802.11ax(HEW20)_LCH_2412MHz_SU_ / _Ant1 (SISO)_NTNV



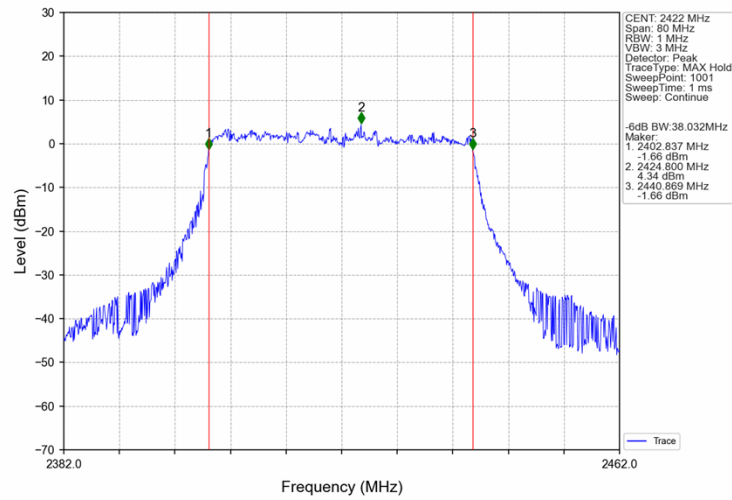
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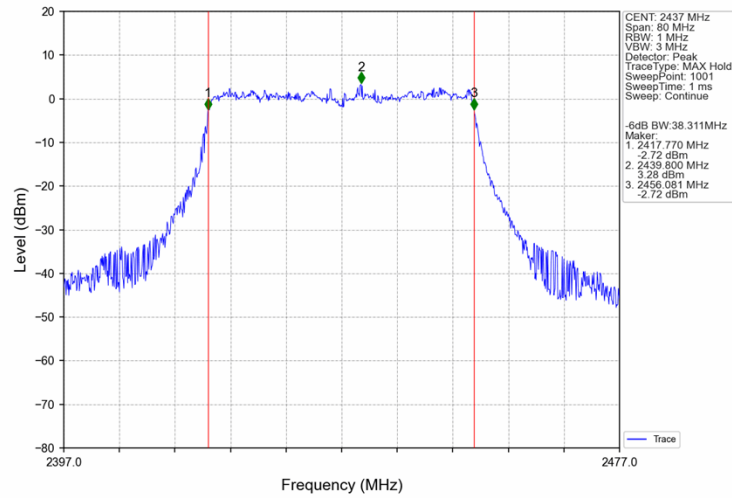
802.11ax(HEW20)_HCH_2462MHz_SU_ / _Ant1 (SISO)_NTNV



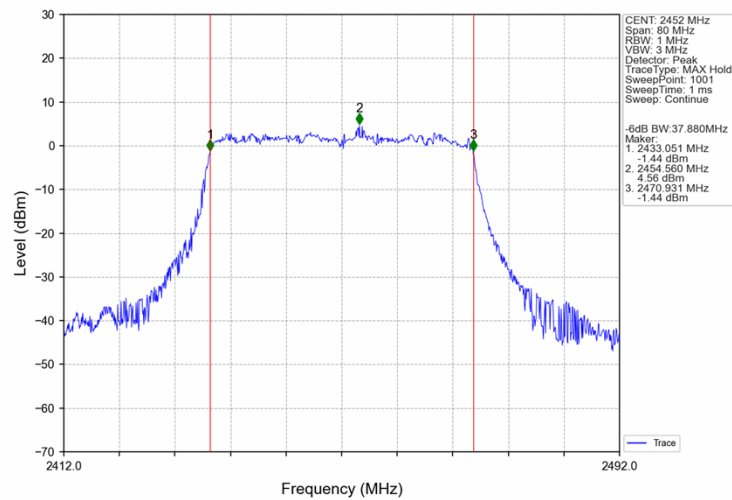
802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_ / _Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	16.85	<=30	Pass
		2437	/	/	16.34	<=30	Pass
		2462	/	/	16.31	<=30	Pass
802.11g	SISO	2412	/	/	16.16	<=30	Pass
		2437	/	/	15.16	<=30	Pass
		2462	/	/	16.52	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	16.28	<=30	Pass
		2437	/	/	15.21	<=30	Pass
		2462	/	/	16.58	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	16.55	<=30	Pass
		2437	/	/	15.79	<=30	Pass
		2452	/	/	16.88	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	17.07	<=30	Pass
		2437	SU	/	16.01	<=30	Pass
		2462	SU	/	17.09	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	16.90	<=30	Pass
		2437	SU	/	16.03	<=30	Pass
		2452	SU	/	17.03	<=30	Pass

Note1: Antenna Gain: Ant1: 1.91dBi;

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)		Verdict
					ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	/	/	4.07dBm/100kHz	<=8	Pass
		2437	/	/	3.83dBm/100kHz	<=8	Pass
		2462	/	/	4.11dBm/100kHz	<=8	Pass
802.11g	SISO	2412	/	/	-2.95dBm/100kHz	<=8	Pass
		2437	/	/	-4.20dBm/100kHz	<=8	Pass
		2462	/	/	-2.77dBm/100kHz	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-2.82dBm/100kHz	<=8	Pass
		2437	/	/	-4.06dBm/100kHz	<=8	Pass
		2462	/	/	-2.80dBm/100kHz	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-5.09dBm/100kHz	<=8	Pass
		2437	/	/	-6.07dBm/100kHz	<=8	Pass
		2452	/	/	-5.11dBm/100kHz	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-2.95dBm/100kHz	<=8	Pass
		2437	SU	/	-4.38dBm/100kHz	<=8	Pass
		2462	SU	/	-2.67dBm/100kHz	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-5.62dBm/100kHz	<=8	Pass
		2437	SU	/	-6.46dBm/100kHz	<=8	Pass
		2452	SU	/	-5.66dBm/100kHz	<=8	Pass

Note1: Antenna Gain: Ant1: 1.91dBi;