



Keyway Testing Technology (Guangdong) Co., Ltd
Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan City,
Guangdong province, China

RF Conducted Test

E.U.T:	Power Pro Control System
Model Number:	WF-3511
Sample ID	33000254423
Sample(s) Status:	Engineer sample
Date of Receipt:	Oct. 17, 2025
Date of Test:	Oct. 17 ~ 27, 2025
FCC ID:	2BDDWWF3511
Report No.	2025102737988890-00
Tester	Jacob Ouyang



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Guangdong province, China

A.1 CONDUCTED OUTPUT POWER

Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	10.88	≤30	PASS
	6	11.05	≤30	PASS
	11	11.18	≤30	PASS
IEEE 802.11g	1	10.18	≤30	PASS
	6	10.14	≤30	PASS
	11	9.91	≤30	PASS
IEEE 802.11n_20	1	9.61	≤30	PASS
	6	9.82	≤30	PASS
	11	9.58	≤30	PASS
IEEE 802.11n_40	3	8.92	≤30	PASS
	6	8.24	≤30	PASS
	9	9.12	≤30	PASS



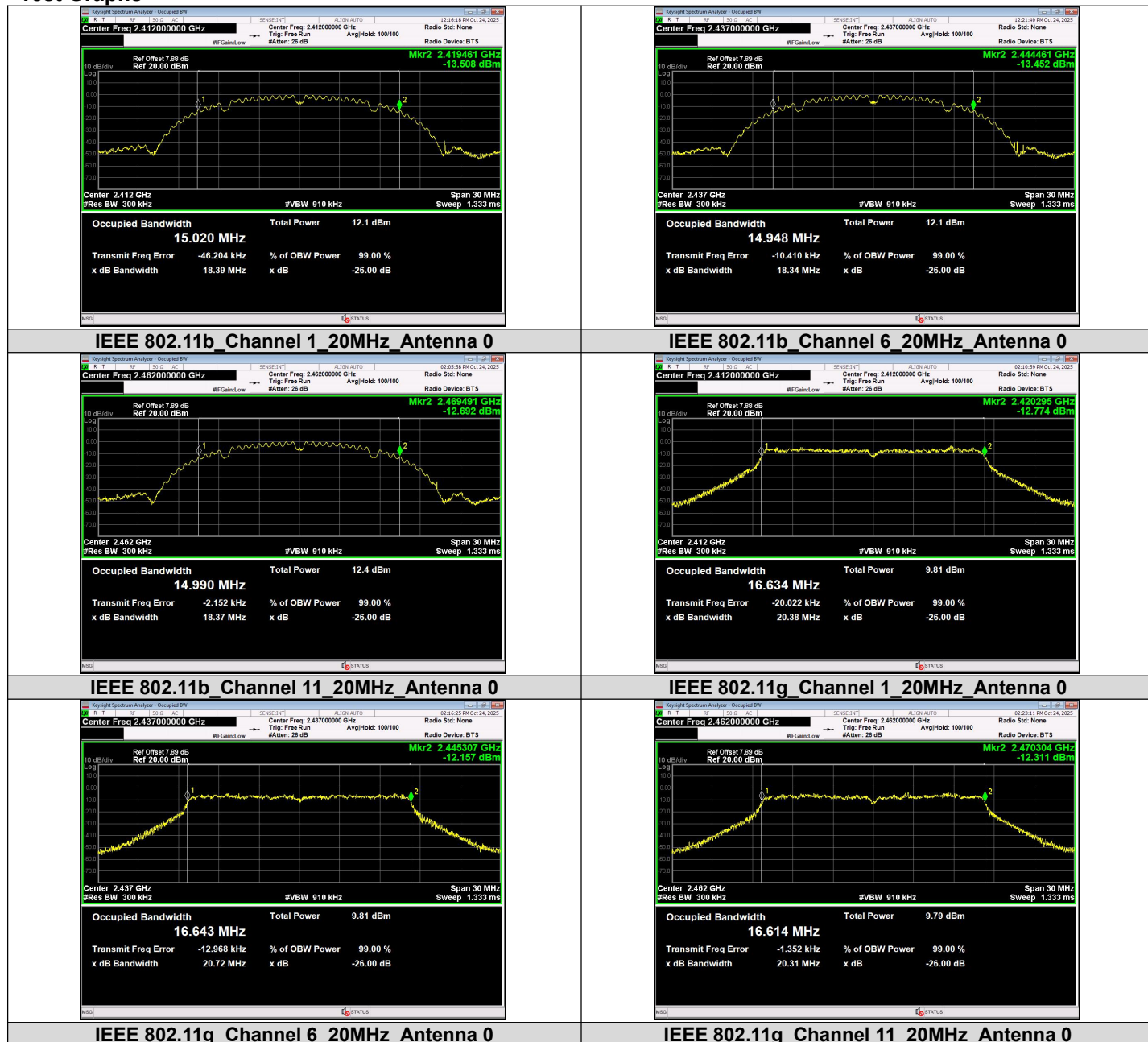
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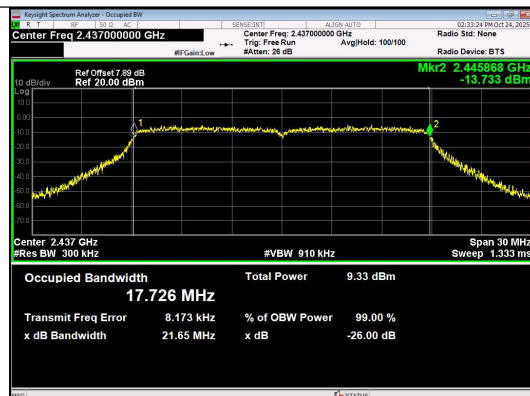
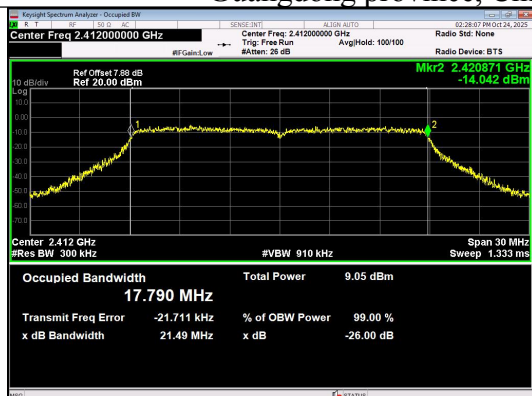
A.2 99% BANDWIDTH

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	15.020
	6		2437	14.948
	11		2462	14.990
IEEE 802.11g	1		2412	16.634
	6		2437	16.643
	11		2462	16.614
IEEE 802.11n_20	1		2412	17.790
	6		2437	17.726
	11		2462	17.790
IEEE 802.11n_40	3		2422	36.300
	6		2437	36.199
	9		2452	36.260

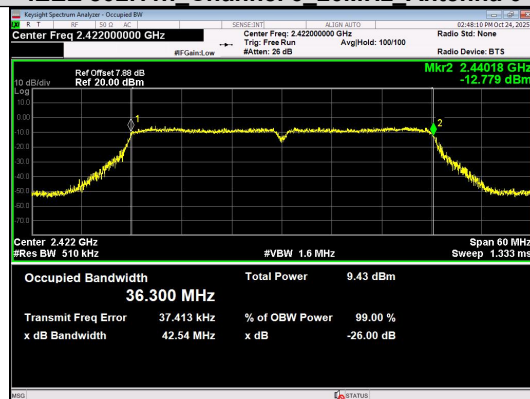
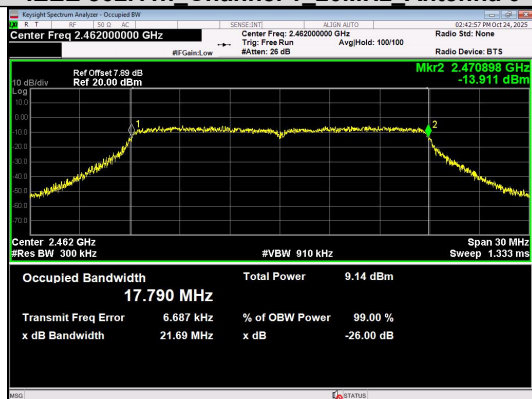
Test Graphs





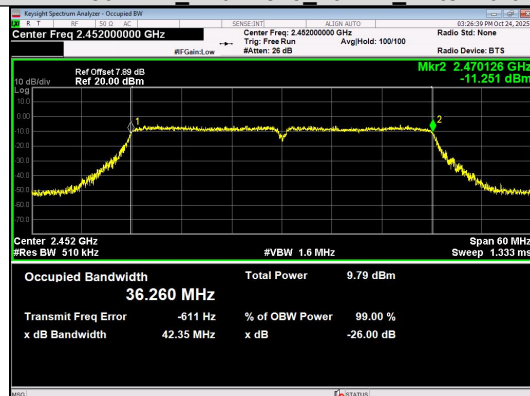
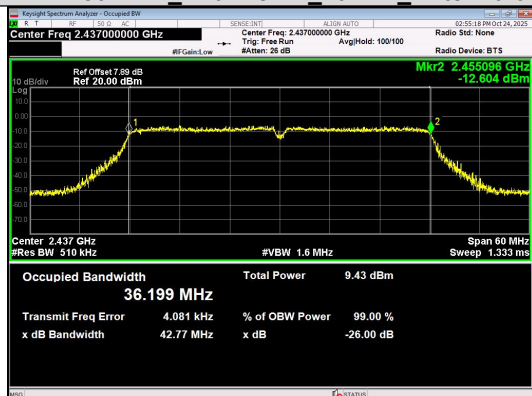
IEEE 802.11n Channel 1 20MHz Antenna 0

IEEE 802.11n Channel 6 20MHz Antenna 0



IEEE 802.11n Channel 11 20MHz Antenna 0

IEEE 802.11n Channel 3 40MHz Antenna 0



IEEE 802.11n Channel 6 40MHz Antenna 0

IEEE 802.11n Channel 9 40MHz Antenna 0



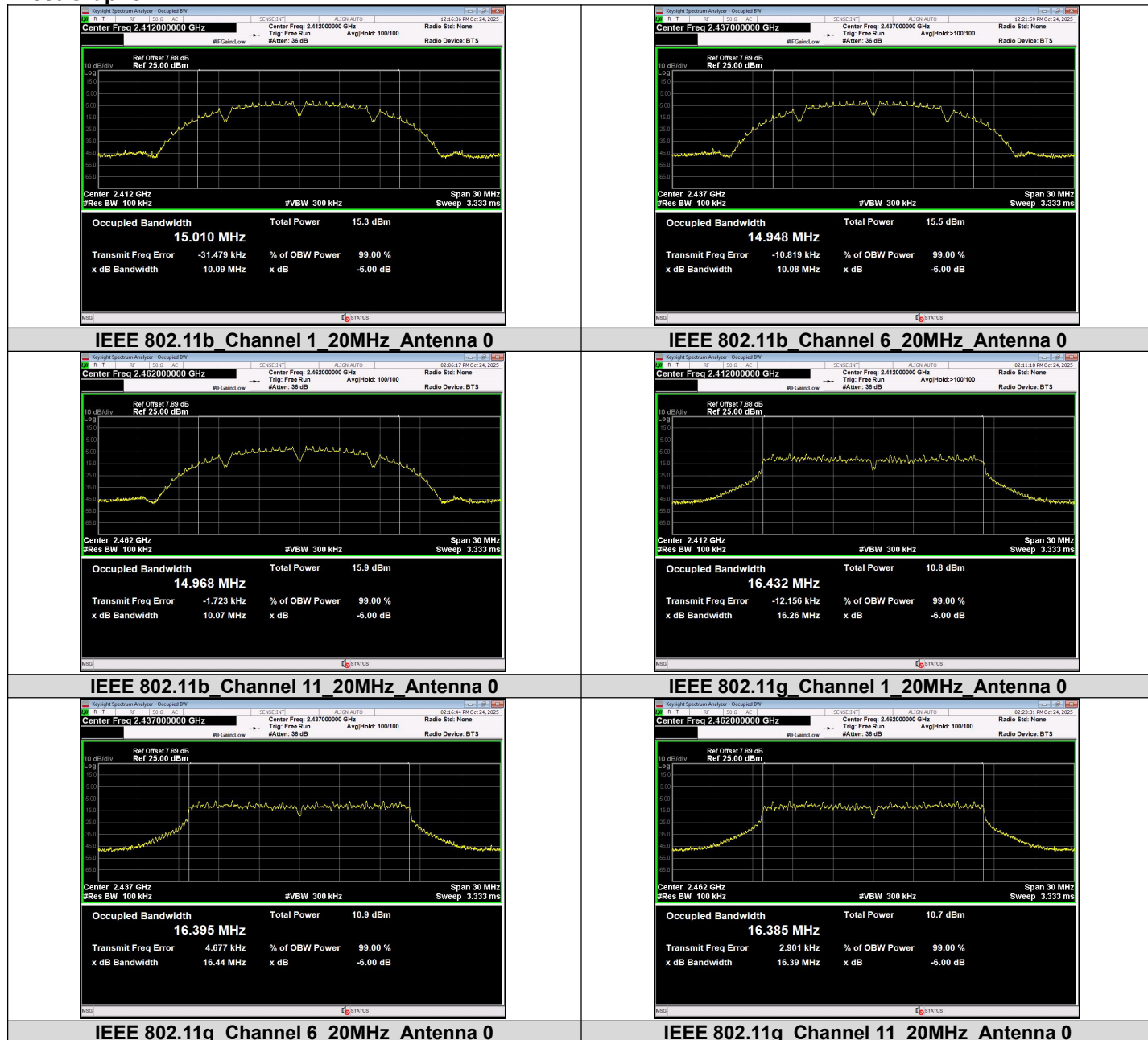
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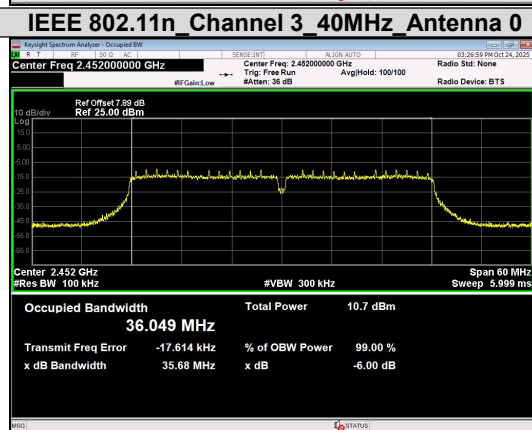
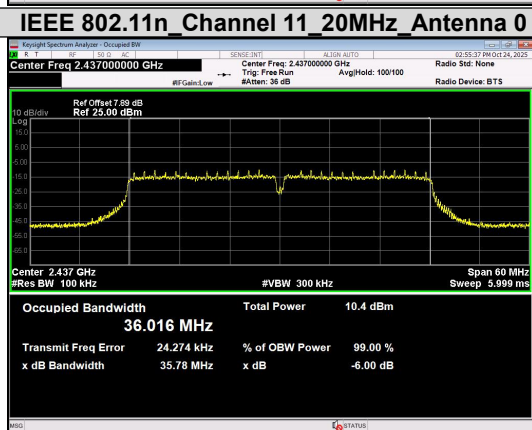
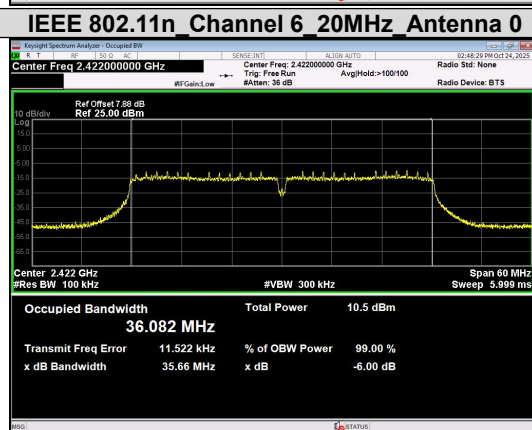
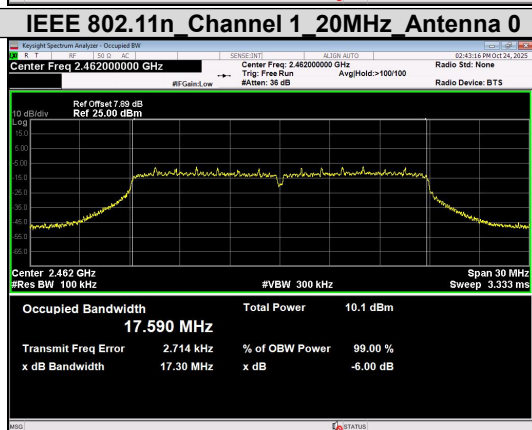
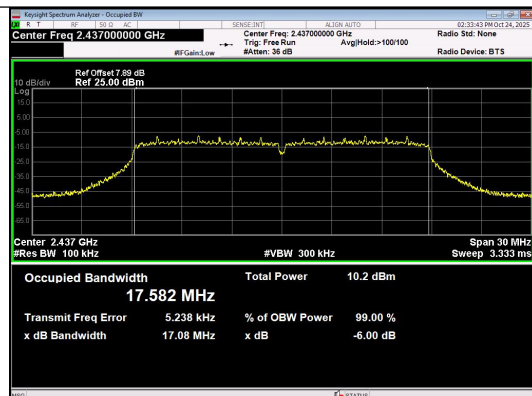
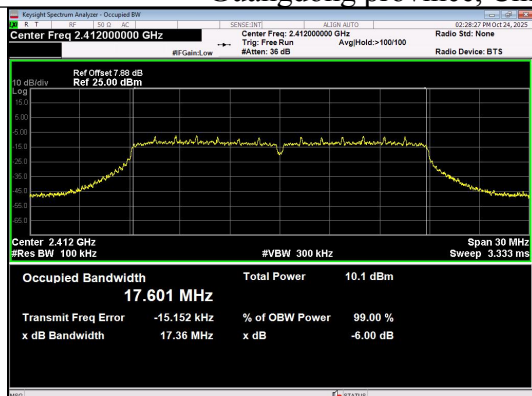
A.3 6DB BANDWIDTH

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	10.09	≥0.5	PASS
	6		2437	10.08		PASS
	11		2462	10.07		PASS
IEEE 802.11g	1		2412	16.26		PASS
	6		2437	16.44		PASS
	11		2462	16.39		PASS
IEEE 802.11n_20	1		2412	17.36		PASS
	6		2437	17.08		PASS
	11		2462	17.30		PASS
IEEE 802.11n_40	3		2422	35.66		PASS
	6		2437	35.78		PASS
	9		2452	35.68		PASS

Test Graphs





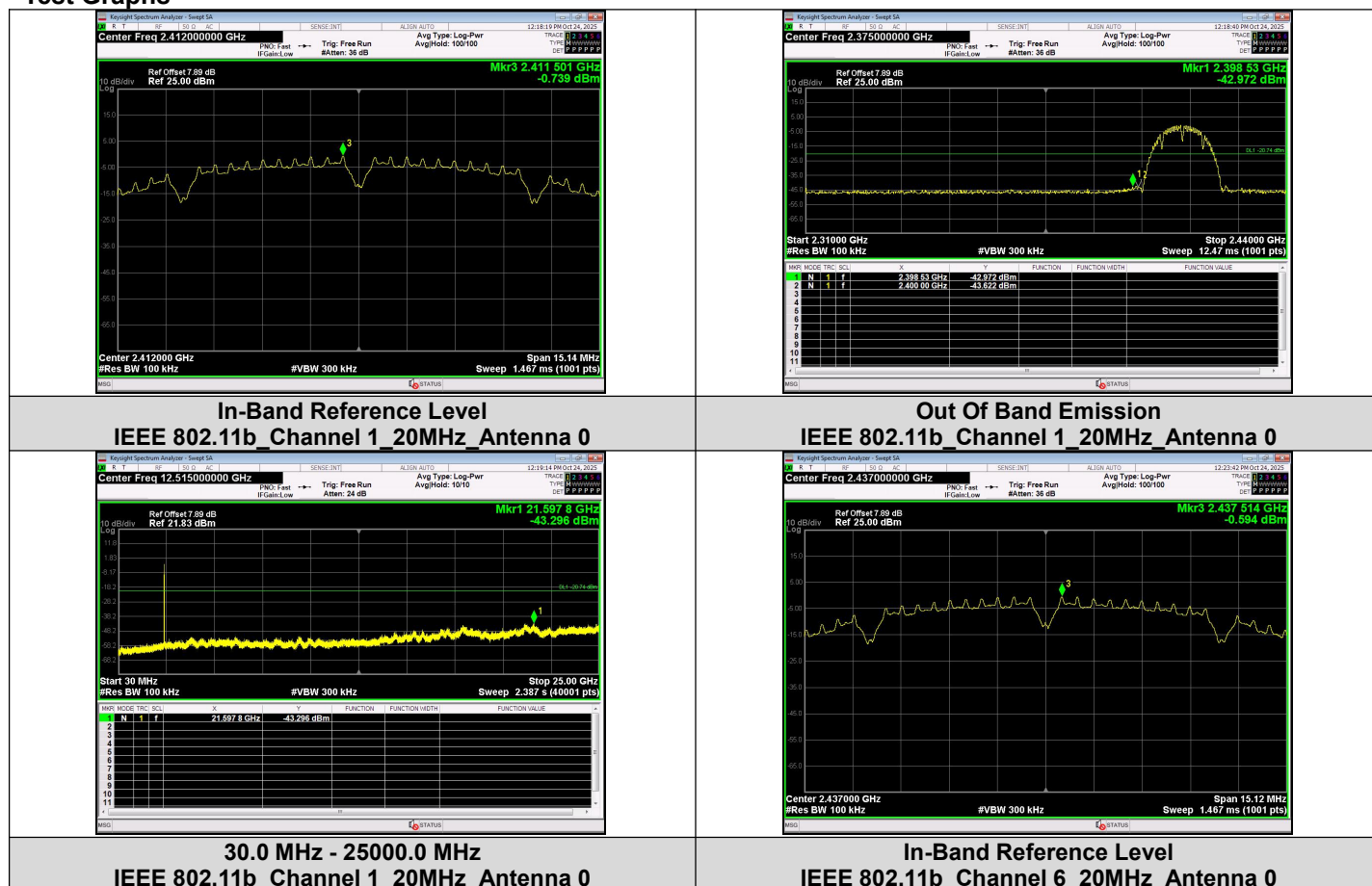
A.4 CONDUCTED SPURIOUS & BAND EDGE EMISSION

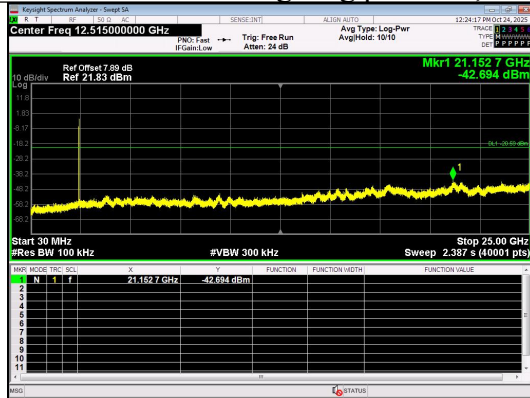
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2398.53	-42.972	-20.74	-22.232	PASS
			2400.00	-43.622	-20.74	-22.882	PASS
	6		21597.8	-43.296	-20.74	-22.556	PASS
	11		21152.7	-42.694	-20.59	-22.104	PASS
			2483.50	-46.926	-20.48	-26.446	PASS
IEEE 802.11g	1		21183.3	-42.007	-20.48	-21.527	PASS
			2400.00	-43.816	-26.61	-17.206	PASS
	6		21119.0	-43.046	-26.61	-16.436	PASS
	11		21191.5	-41.795	-26.75	-15.045	PASS
			2483.50	-46.404	-27.04	-19.364	PASS
IEEE 802.11n_20	1	21588.5	-42.490	-27.04	-15.450	PASS	
		2400.00	-41.983	-27.12	-14.863	PASS	
	6	21155.2	-43.288	-27.12	-16.168	PASS	
	11	21579.1	-42.647	-27.22	-15.427	PASS	
		2483.50	-46.780	-27.38	-19.400	PASS	
IEEE 802.11n_40	3	21124.7	-43.242	-27.38	-15.862	PASS	
		2400.00	-43.368	-29.99	-13.378	PASS	
	6	21564.8	-42.684	-29.99	-12.694	PASS	
	9	21596.6	-42.776	-29.3	-13.476	PASS	
		2483.50	-46.285	-29.85	-16.435	PASS	
		21206.4	-42.253	-29.85	-12.403	PASS	

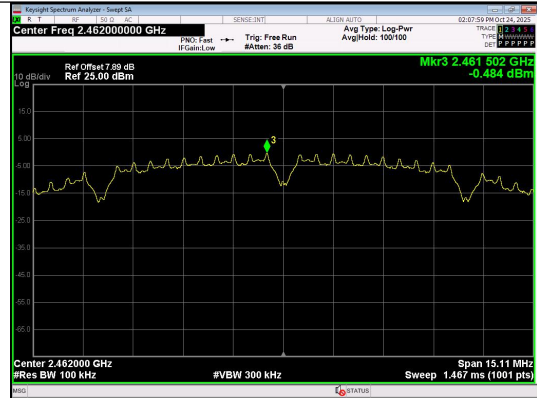
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

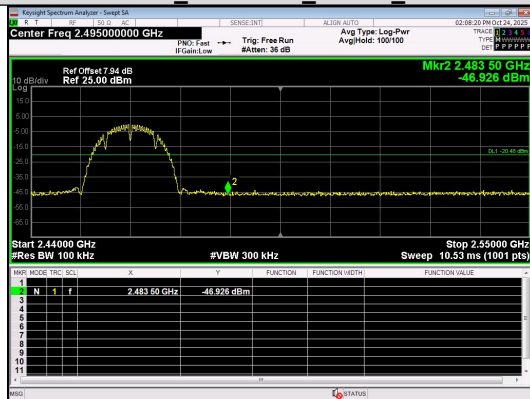




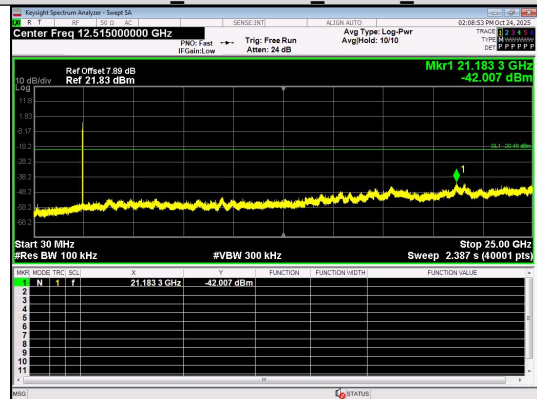
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 6 20MHz Antenna 0



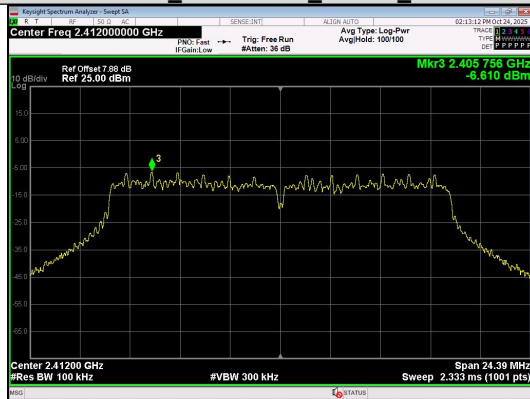
In-Band Reference Level
IEEE 802.11b Channel 11 20MHz Antenna 0



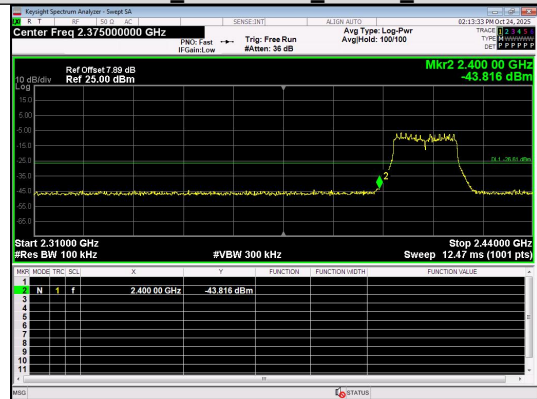
Out Of Band Emission
IEEE 802.11b Channel 11 20MHz Antenna 0



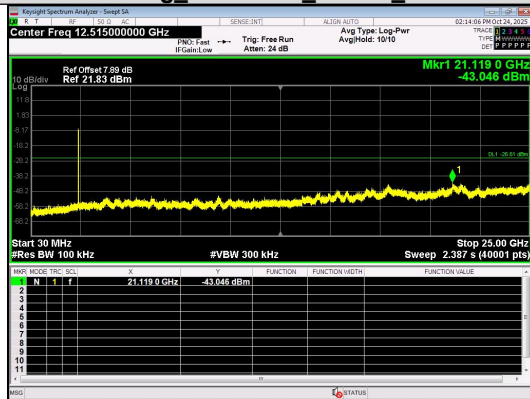
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 11 20MHz Antenna 0



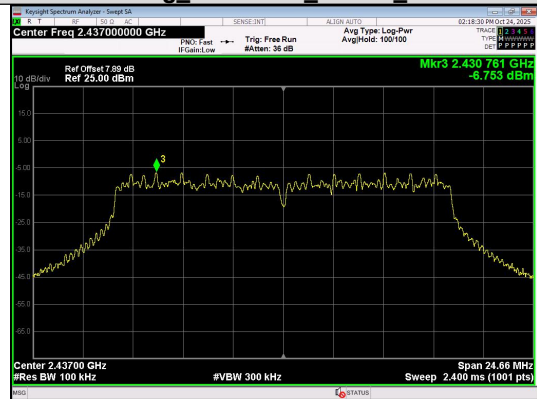
In-Band Reference Level
IEEE 802.11g Channel 1 20MHz Antenna 0



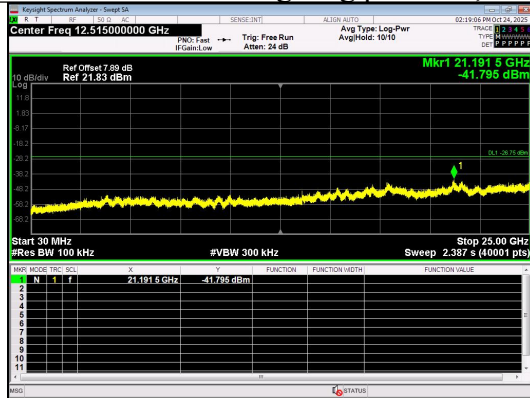
Out Of Band Emission
IEEE 802.11g Channel 1 20MHz Antenna 0



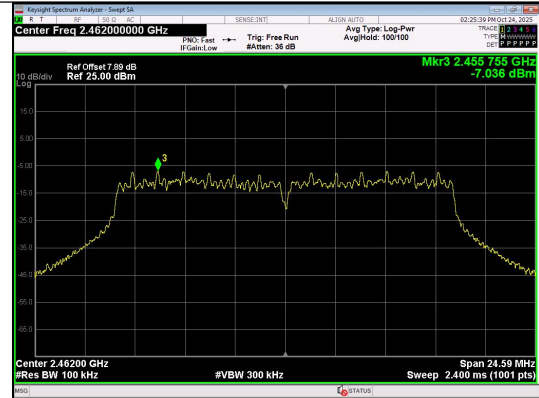
30.0 MHz - 25000.0 MHz
IEEE 802.11g Channel 1 20MHz Antenna 0



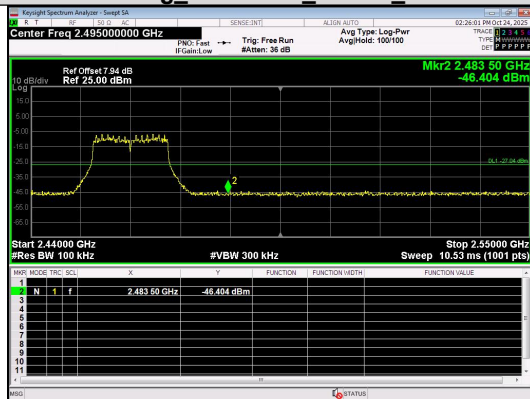
In-Band Reference Level
IEEE 802.11g Channel 6 20MHz Antenna 0



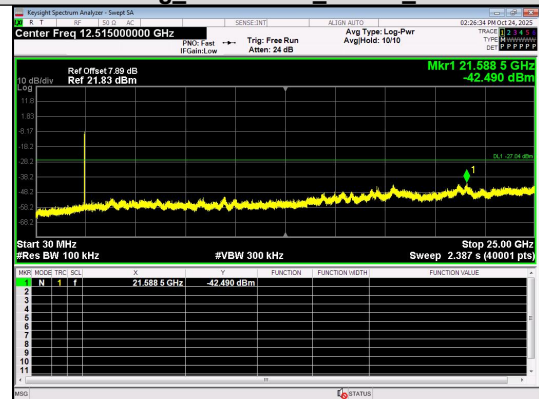
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



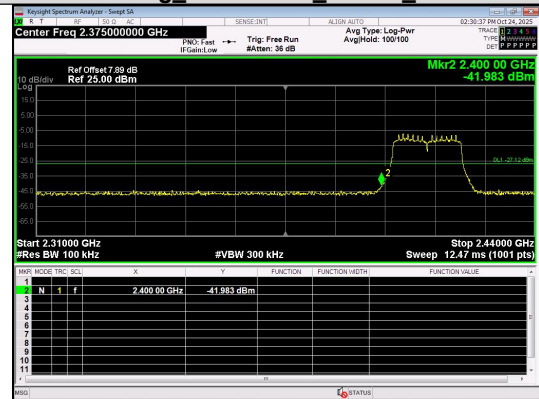
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



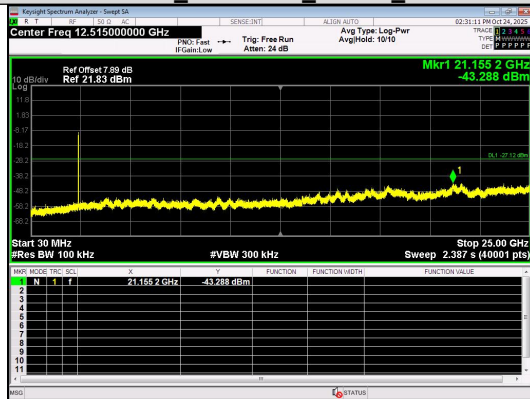
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



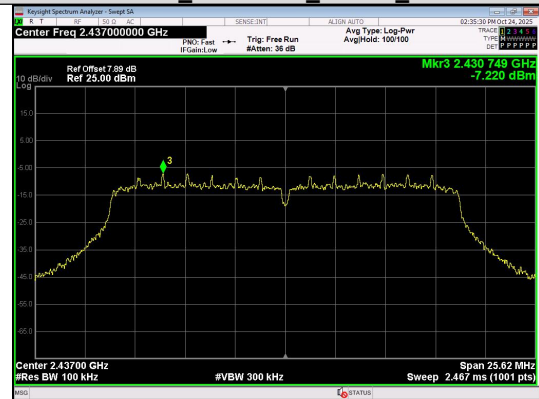
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0