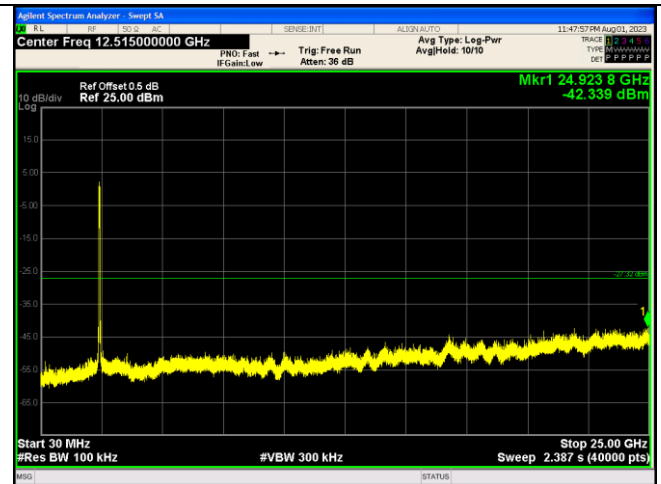
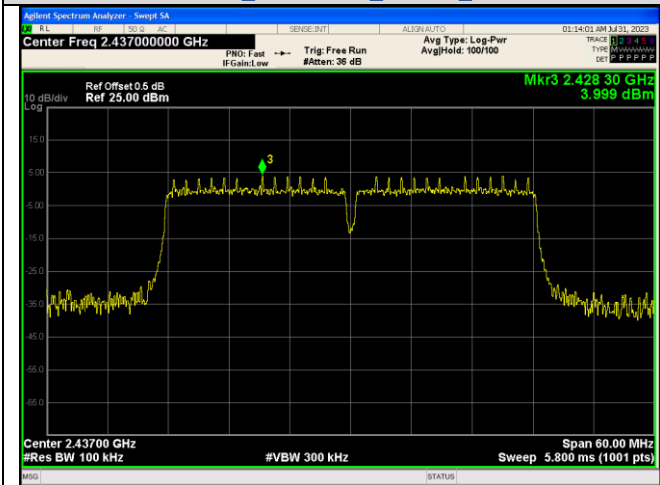


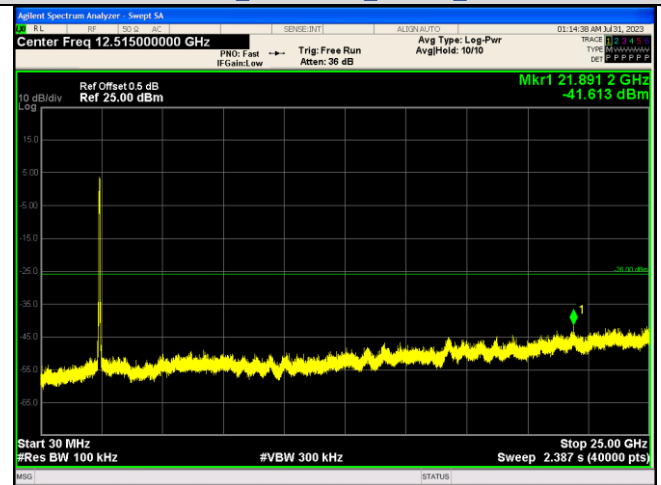
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 1



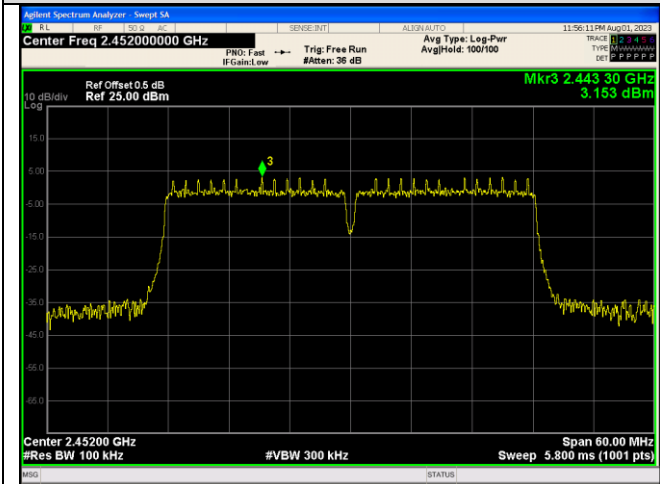
Spurious Emissions
IEEE 802.11n_Channel 6_40MHz_Antenna 1



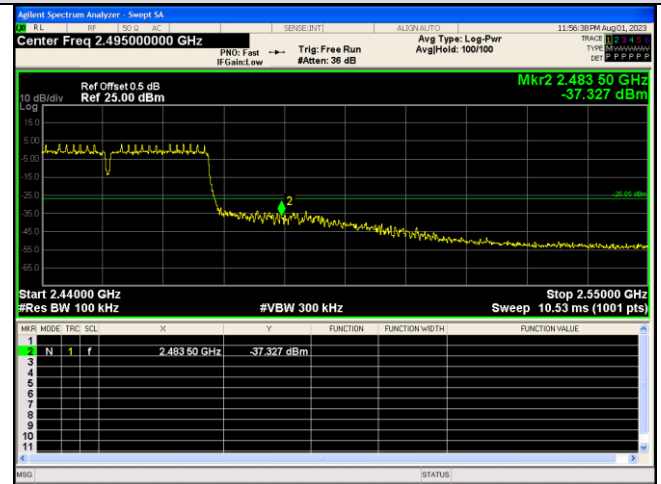
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 2



Spurious Emissions
IEEE 802.11n_Channel 6_40MHz_Antenna 2

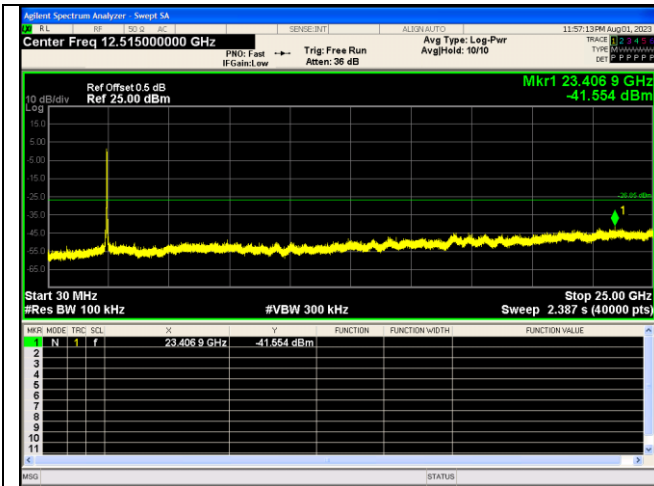


In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 1

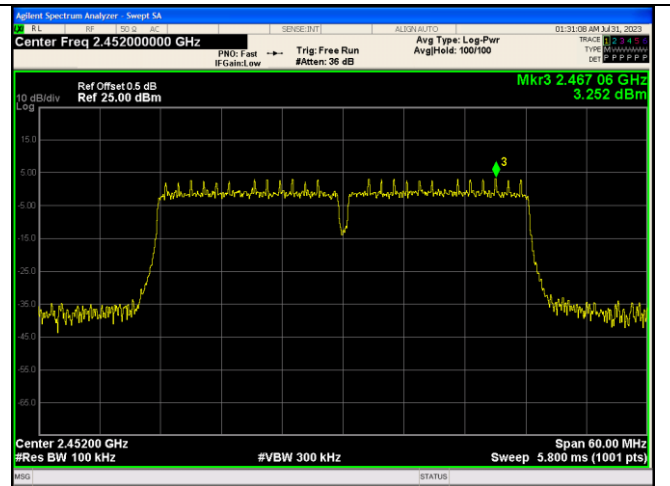


Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 1

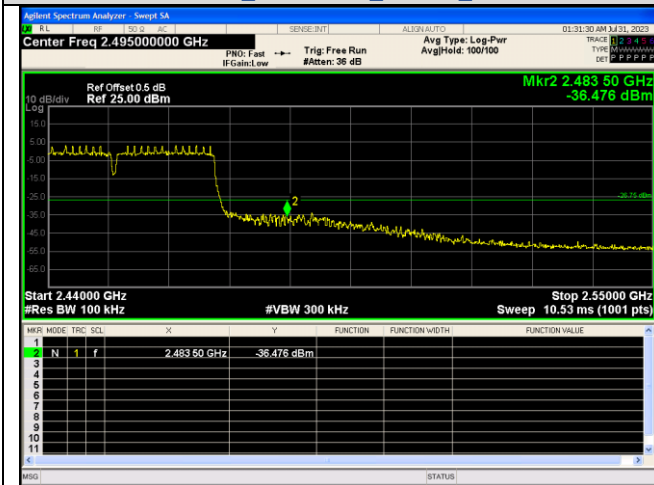




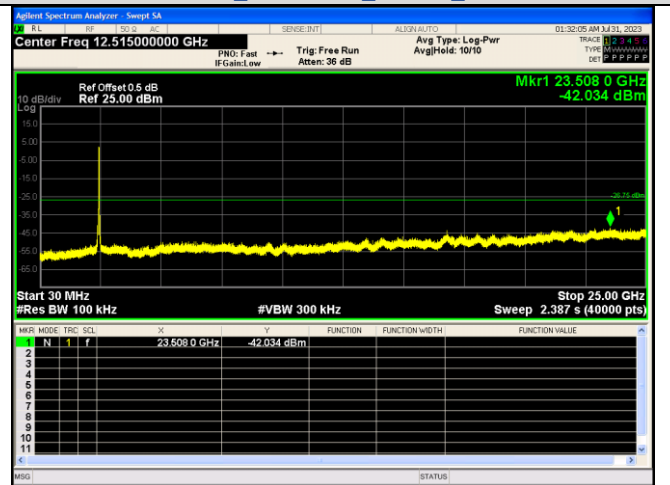
Spurious Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 1



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 2



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 2



Spurious Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 2

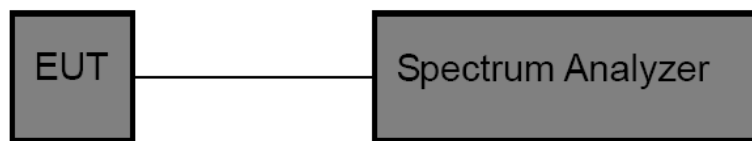
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2) / RSS-247 5.2 a

Test Item	Limit	Frequency Range (MHz)
DTS Bandwidth	≥500 kHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

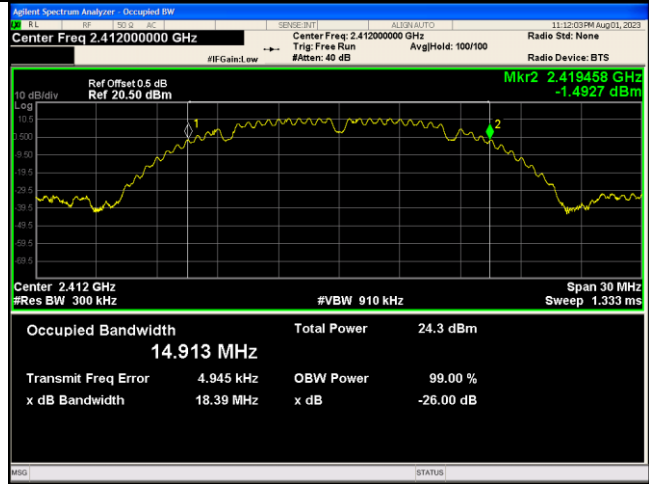
Please refer to the clause 2.4.

**Test Result**

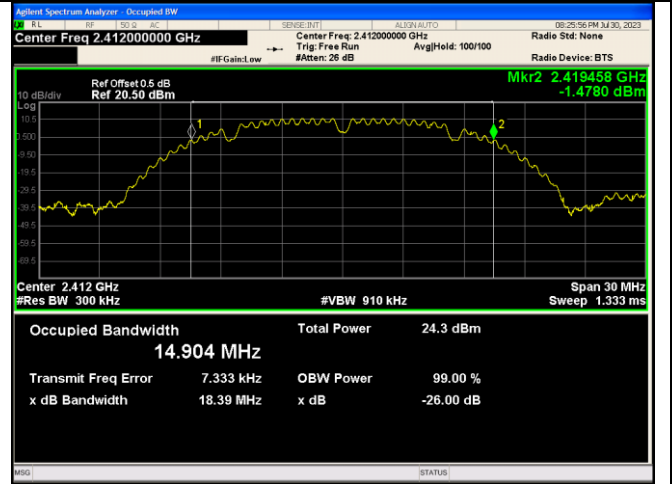
Mode	Channel	Ant.	99% Bandwidth (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	1	14.913	10.12	0.5	PASS
		2	14.904	10.10		PASS
	6	1	14.948	10.12		PASS
		2	14.953	10.11		PASS
	11	1	14.947	10.12		PASS
		2	14.937	11.07		PASS
IEEE 802.11g	1	1	16.423	16.32		PASS
		2	16.433	16.30		PASS
	6	1	16.426	16.31		PASS
		2	16.437	16.31		PASS
	11	1	16.424	16.32		PASS
		2	16.418	16.31		PASS
IEEE 802.11n_20	1	1	17.575	17.52	PASS	
		2	17.576	17.54	PASS	
	6	1	17.562	17.07	PASS	
		2	17.560	17.52	PASS	
	11	1	17.554	17.52	PASS	
		2	17.560	17.51	PASS	
IEEE 802.11n_40	3	1	36.144	36.06	PASS	
		2	36.144	36.28	PASS	
	6	1	36.139	36.30	PASS	
		2	36.163	36.30	PASS	
	9	1	36.182	36.32	PASS	
		2	36.148	35.93	PASS	



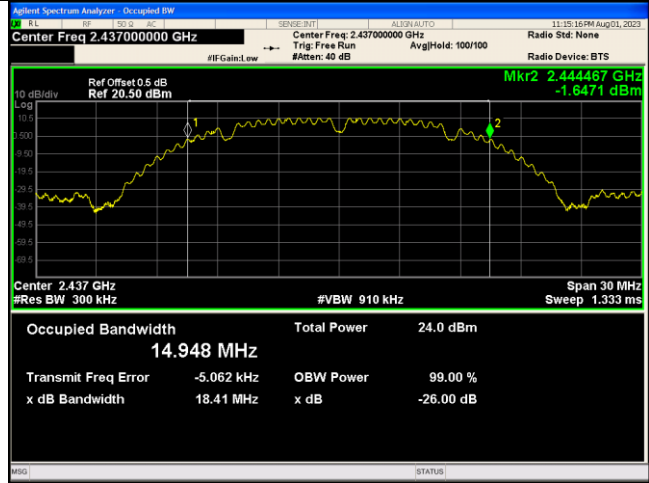
99% Bandwidth:



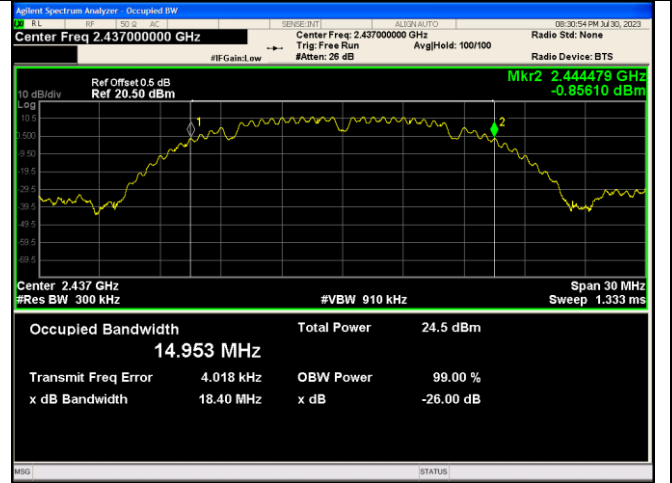
IEEE 802.11b Channel 1 20MHz Antenna 1



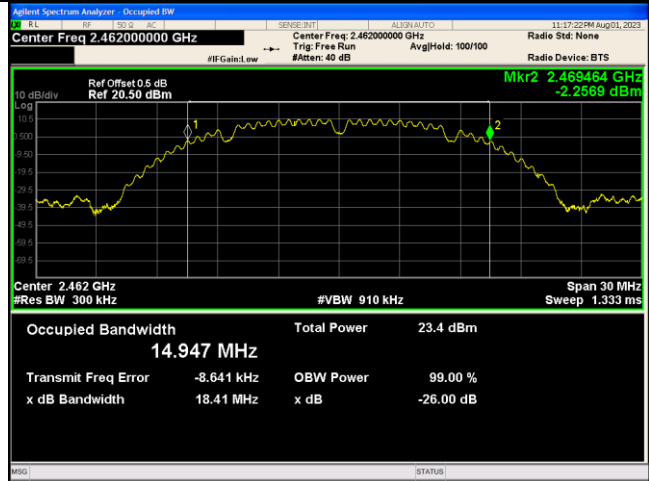
IEEE 802.11b Channel 1 20MHz Antenna 2



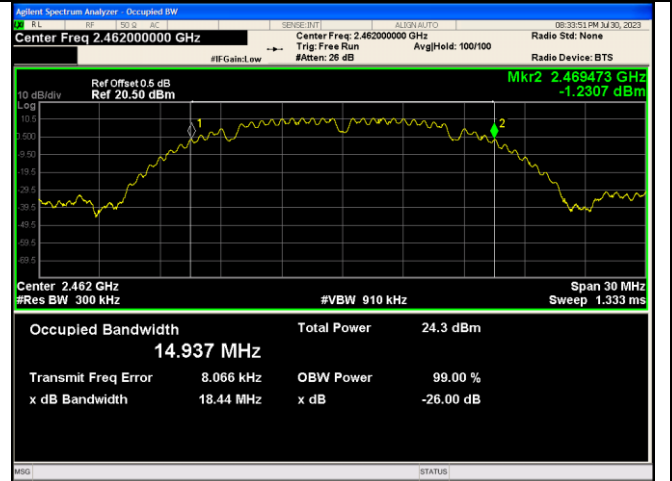
IEEE 802.11b Channel 6 20MHz Antenna 1



IEEE 802.11b Channel 6 20MHz Antenna 2



IEEE 802.11b Channel 11 20MHz Antenna 1



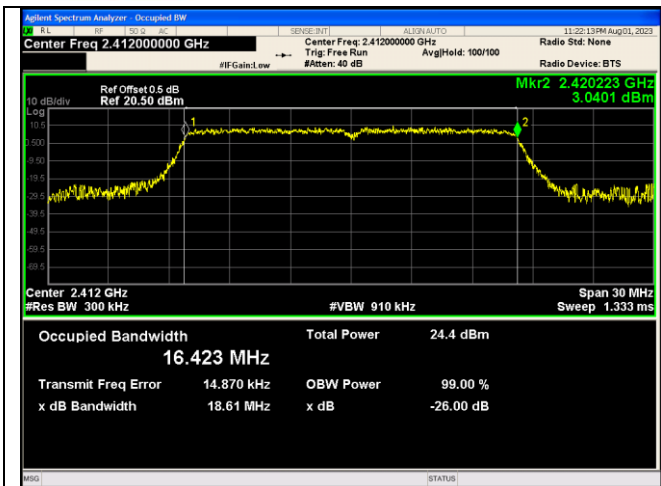
IEEE 802.11b Channel 11 20MHz Antenna 2

CTC Laboratories, Inc.

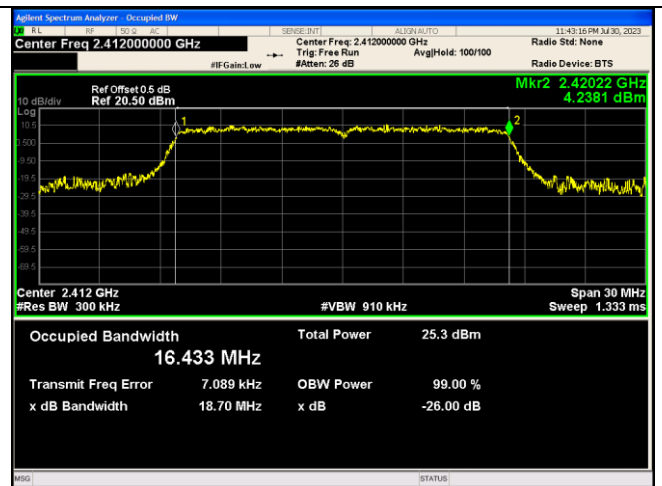
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



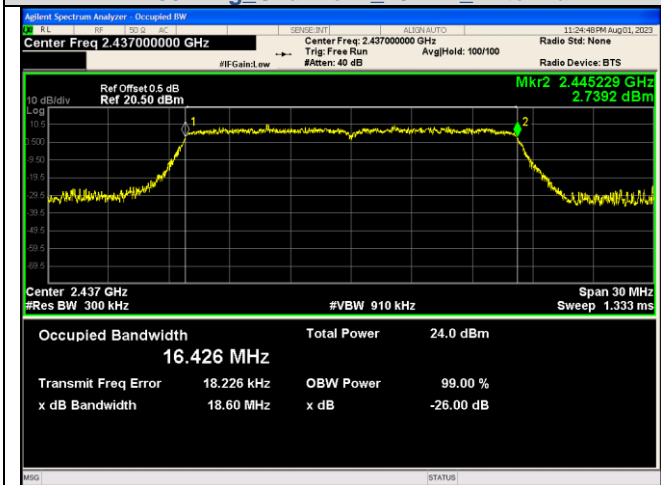
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



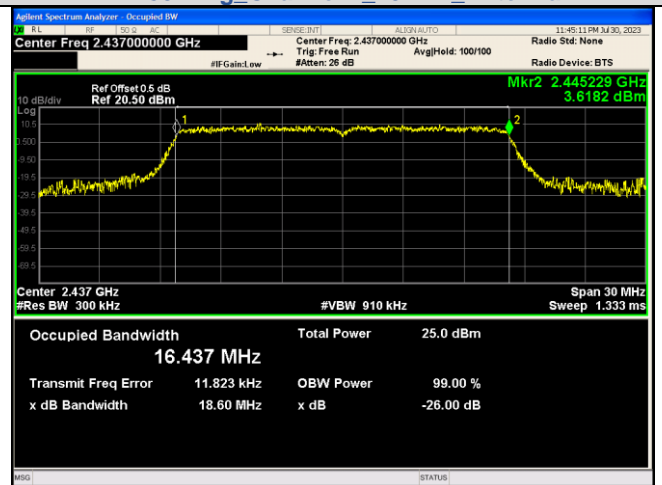
IEEE 802.11g Channel 1 20MHz Antenna 1



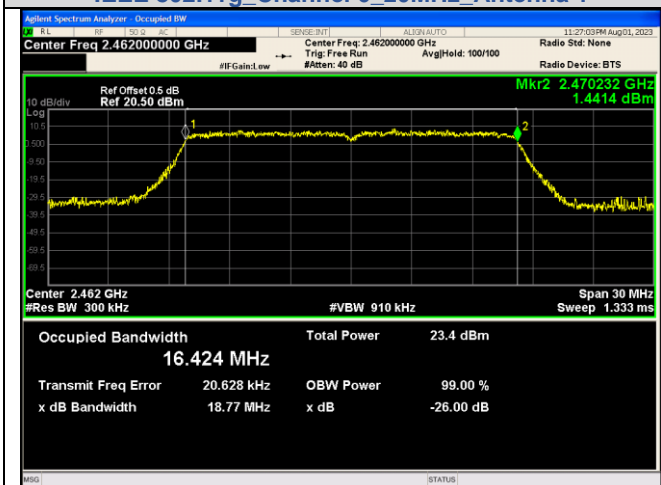
IEEE 802.11g Channel 1 20MHz Antenna 2



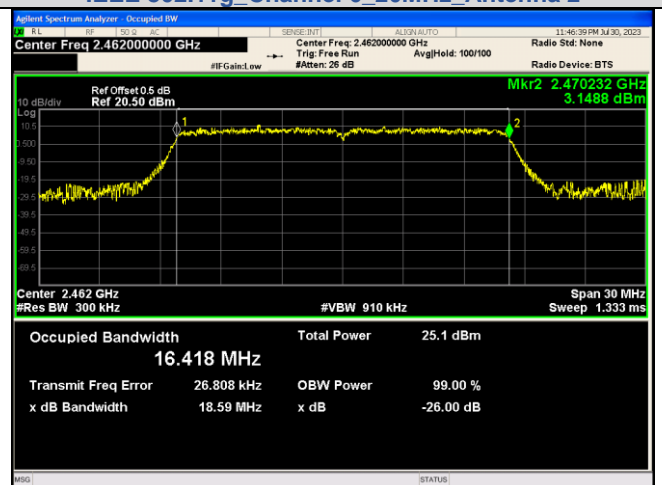
IEEE 802.11g Channel 6 20MHz Antenna 1



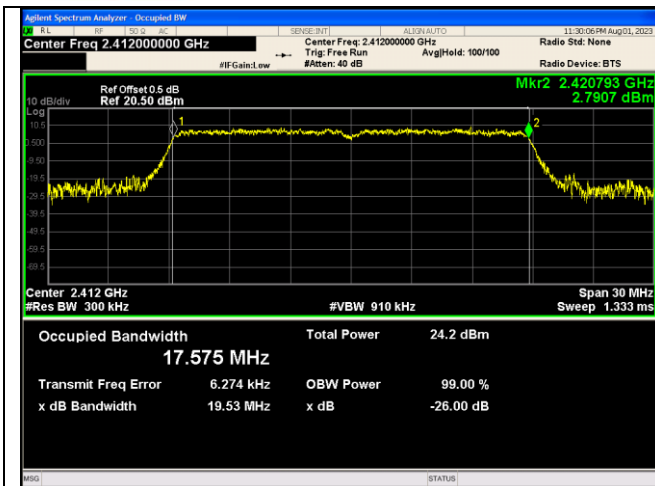
IEEE 802.11g Channel 6 20MHz Antenna 2



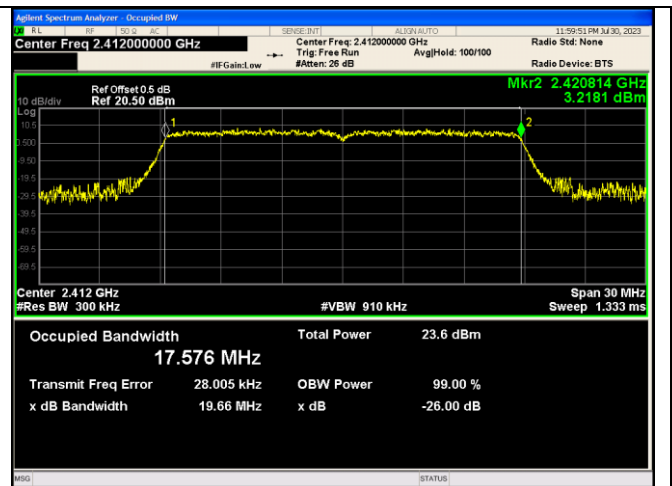
IEEE 802.11g Channel 11 20MHz Antenna 1



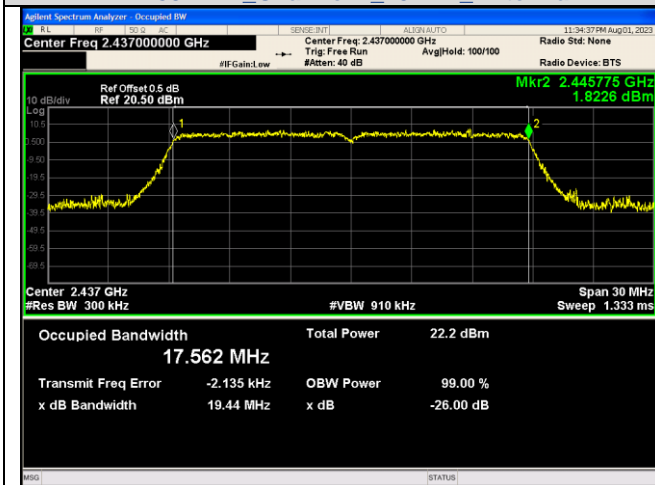
IEEE 802.11g Channel 11 20MHz Antenna 2



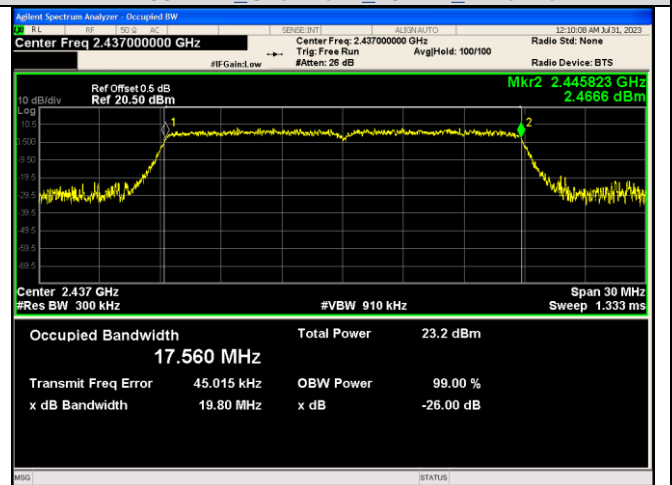
IEEE 802.11n Channel 1 20MHz Antenna 1



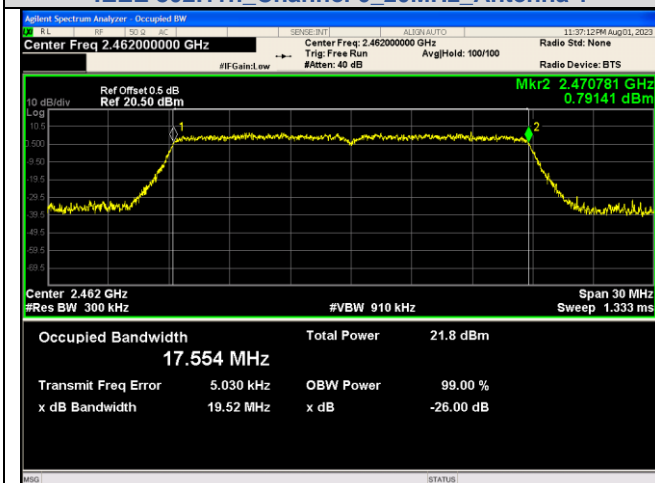
IEEE 802.11n Channel 1 20MHz Antenna 2



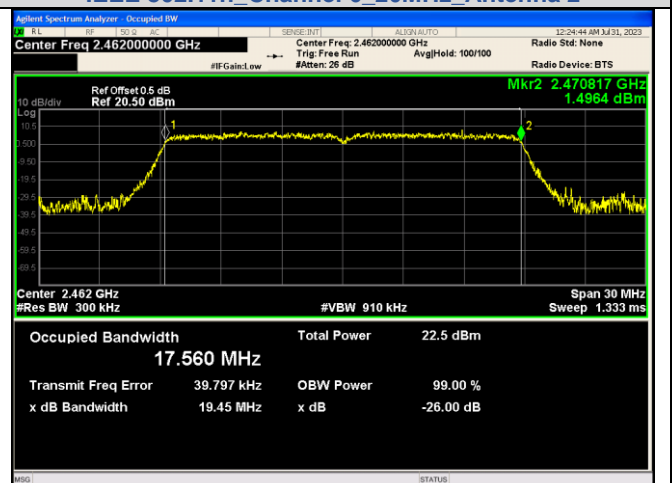
IEEE 802.11n Channel 6 20MHz Antenna 1



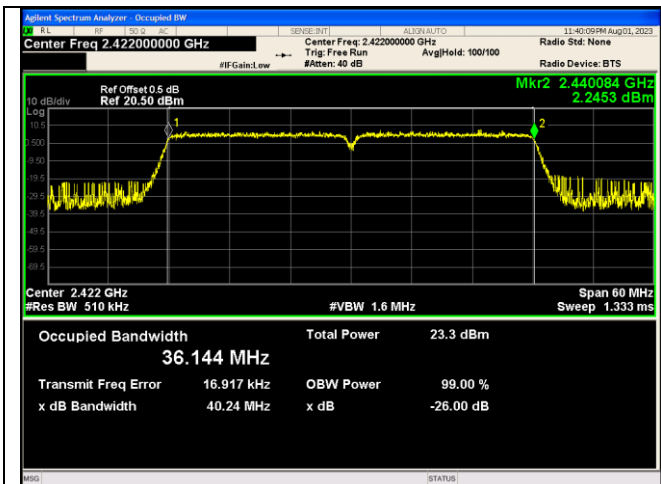
IEEE 802.11n Channel 6 20MHz Antenna 2



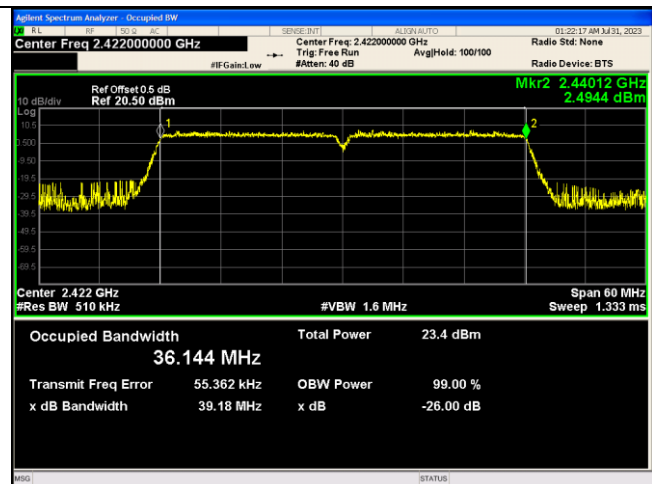
IEEE 802.11n Channel 11 20MHz Antenna 1



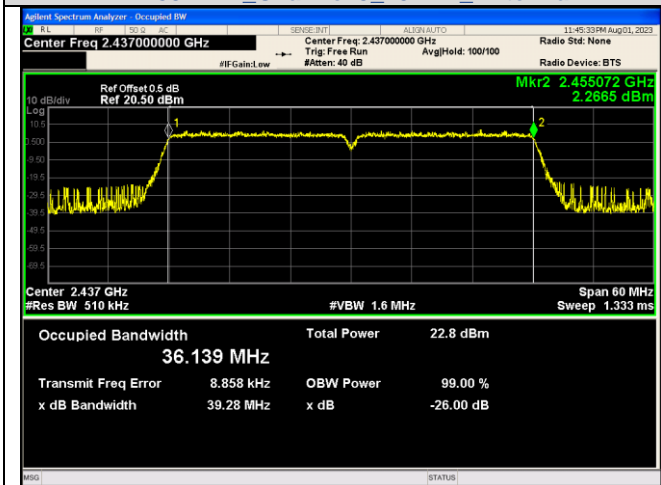
IEEE 802.11n Channel 11 20MHz Antenna 2



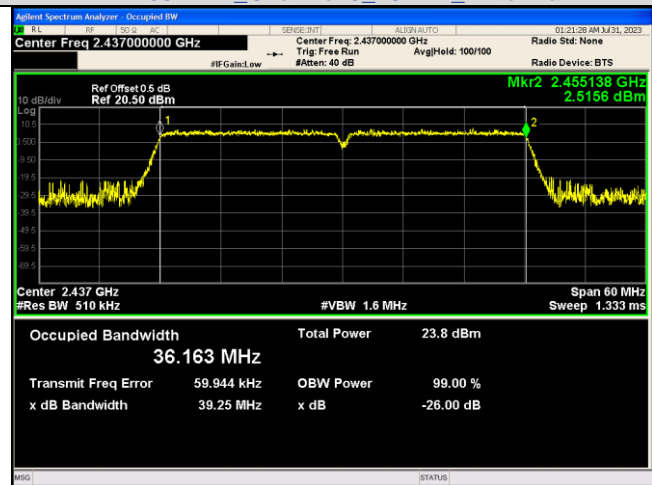
IEEE 802.11n Channel 3 40MHz Antenna 1



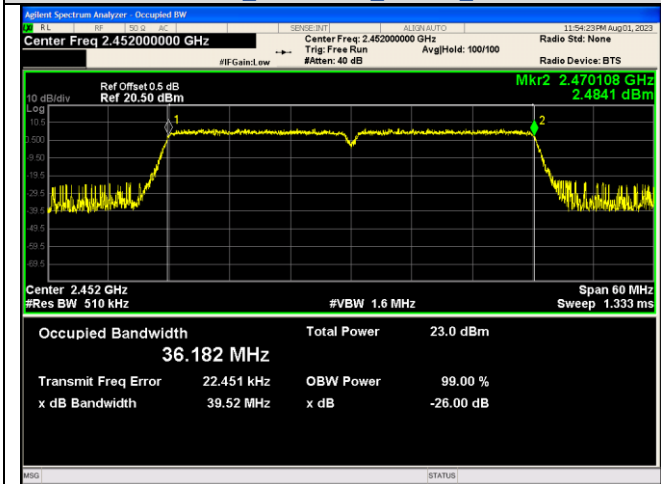
IEEE 802.11n Channel 3 40MHz Antenna 2



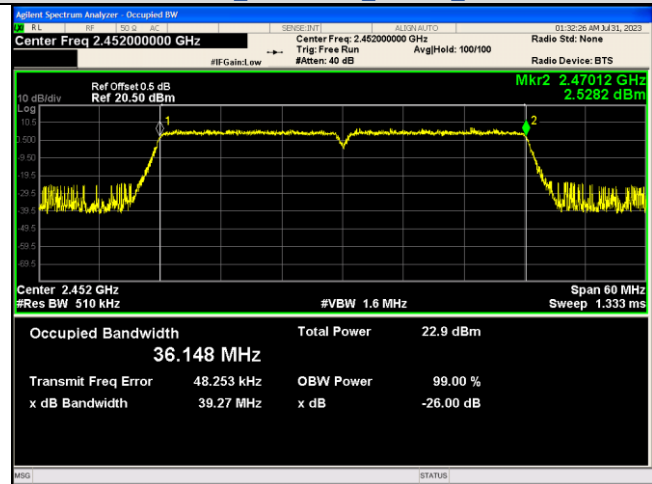
IEEE 802.11n Channel 6 40MHz Antenna 1



IEEE 802.11n Channel 6 40MHz Antenna 2



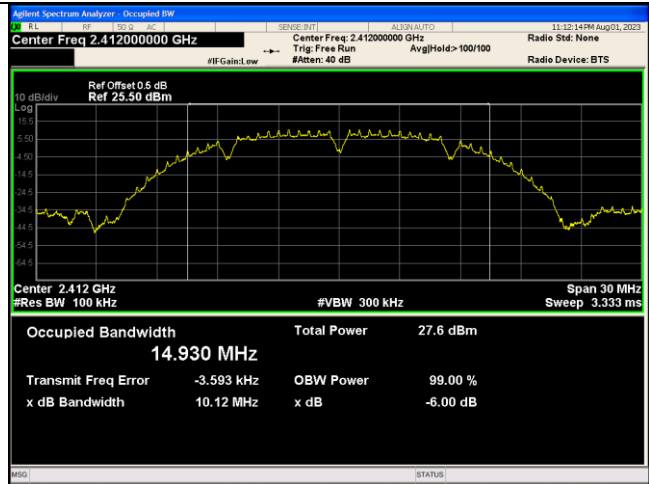
IEEE 802.11n Channel 9 40MHz Antenna 1



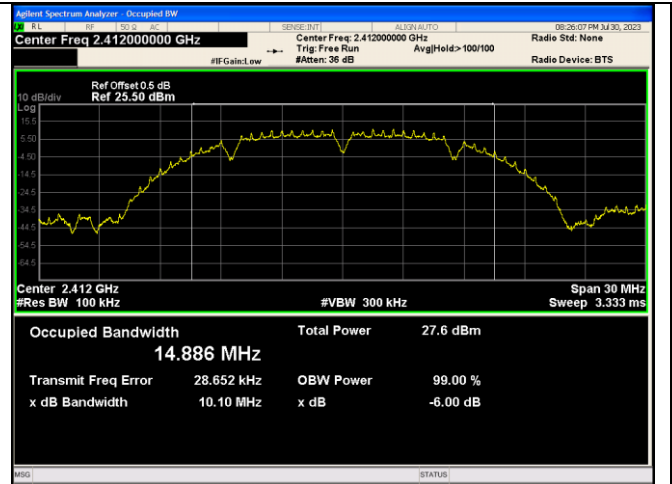
IEEE 802.11n Channel 9 40MHz Antenna 2



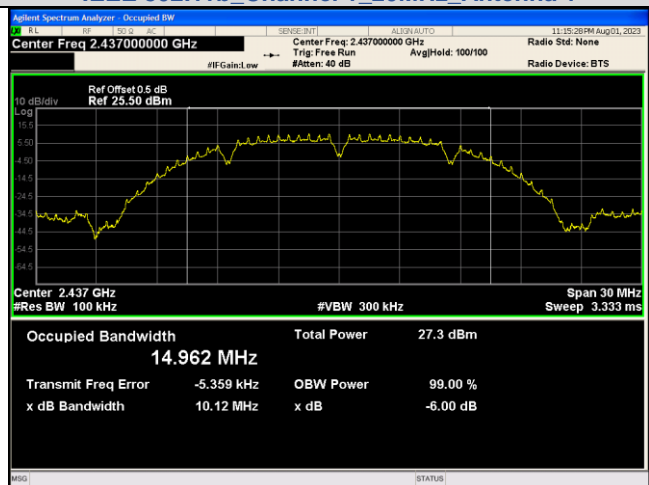
DTS Bandwidth:



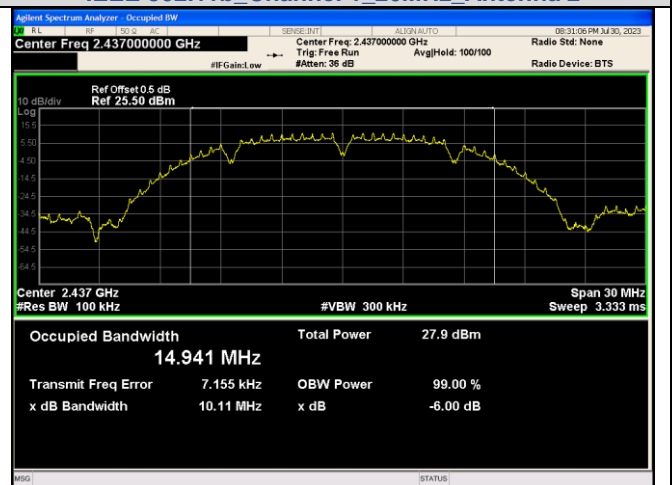
IEEE 802.11b Channel 1 20MHz Antenna 1



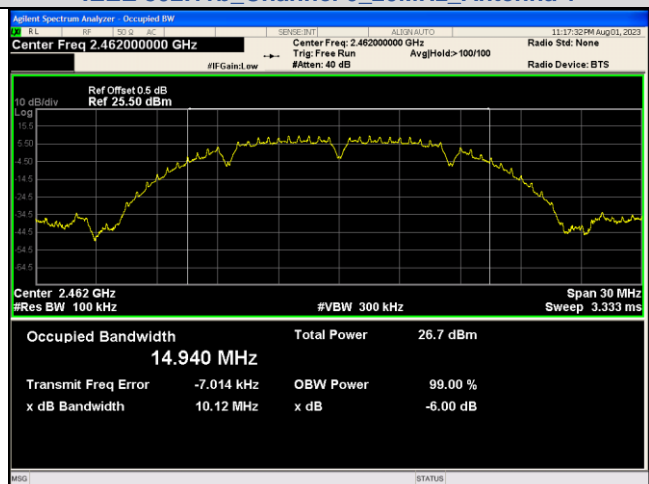
IEEE 802.11b Channel 1 20MHz Antenna 2



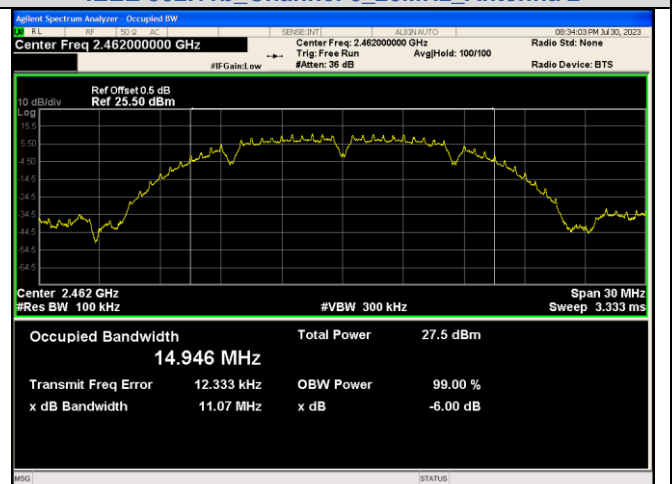
IEEE 802.11b Channel 6 20MHz Antenna 1



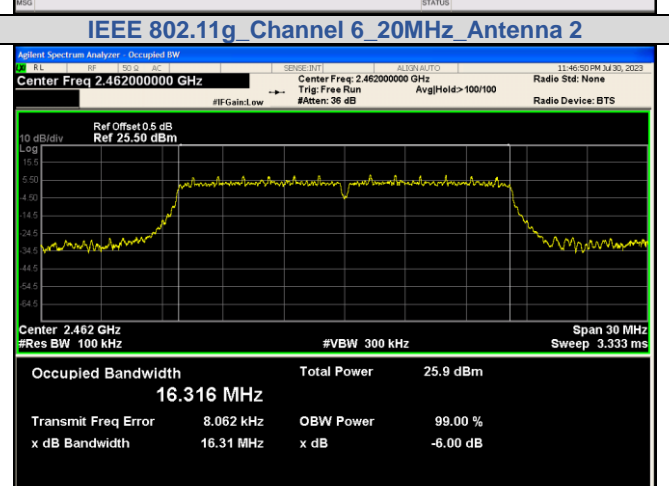
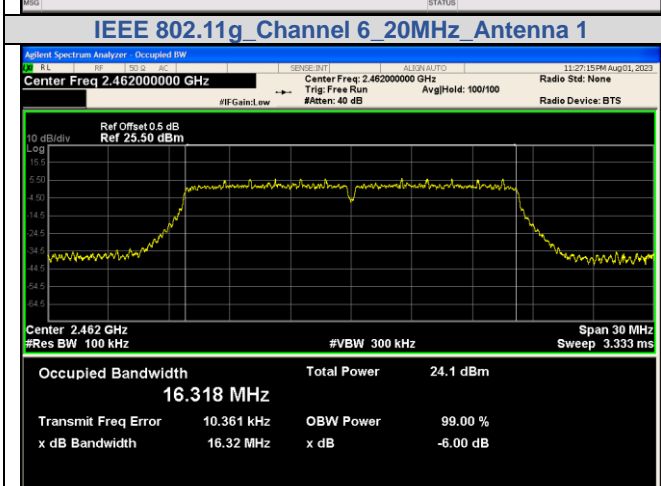
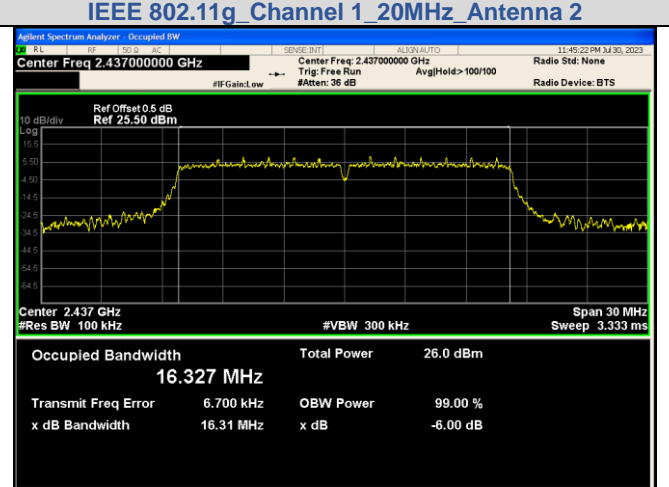
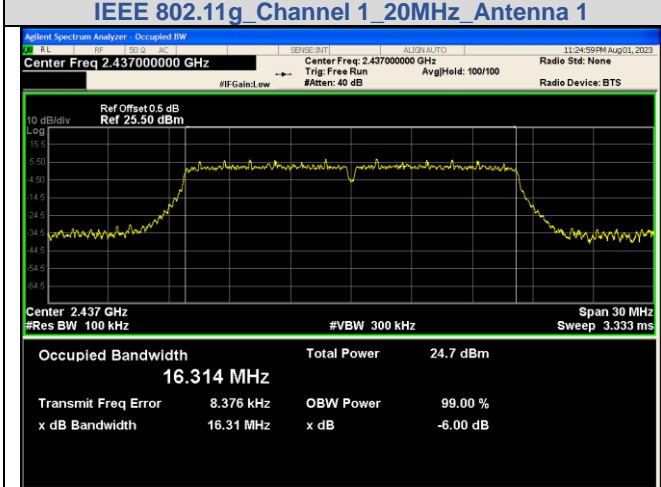
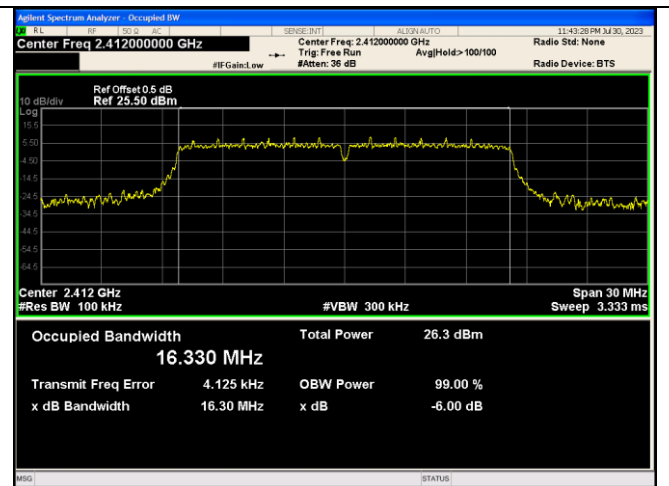
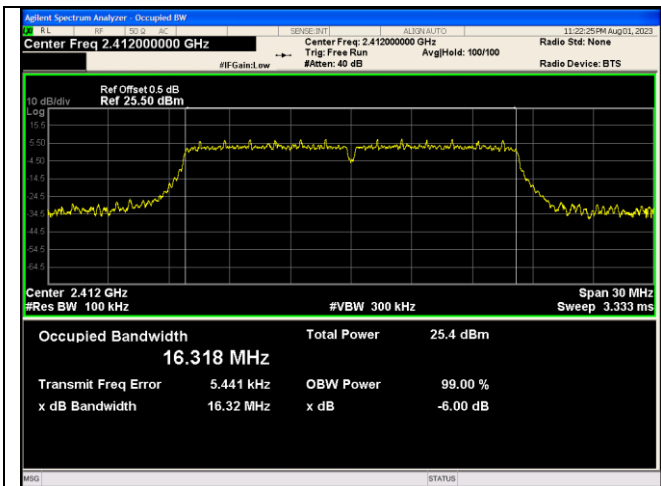
IEEE 802.11b Channel 6 20MHz Antenna 2

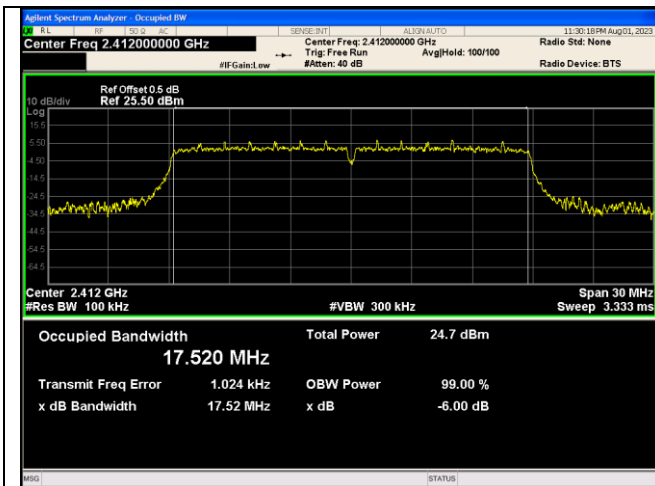


IEEE 802.11b Channel 11 20MHz Antenna 1

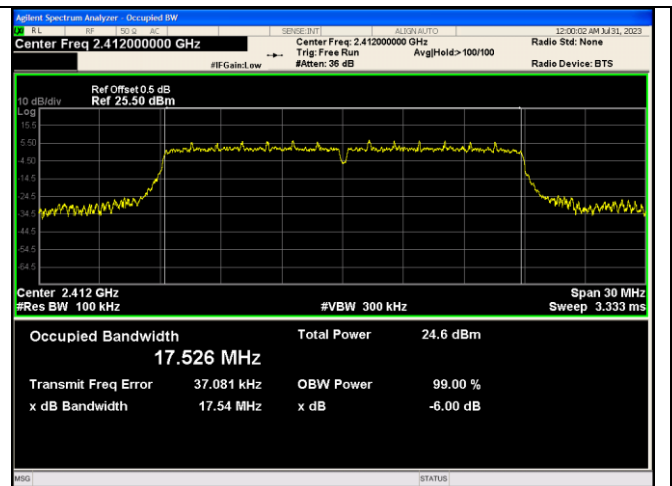


IEEE 802.11b Channel 11 20MHz Antenna 2

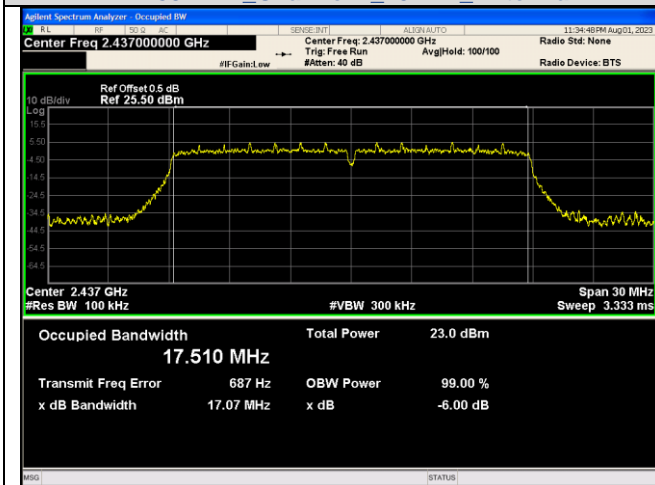




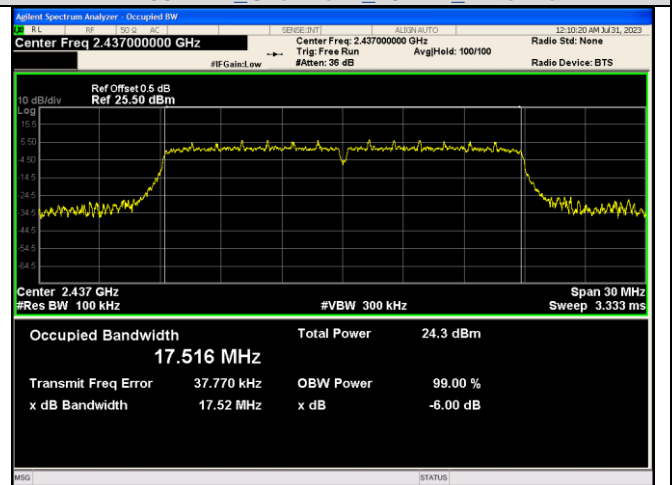
IEEE 802.11n Channel 1 20MHz Antenna 1



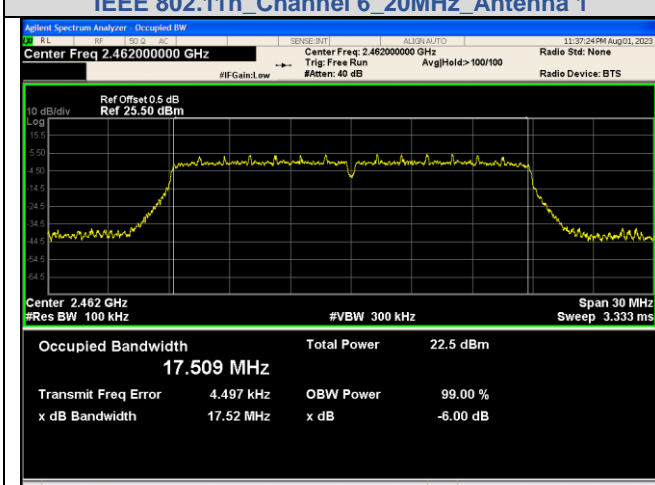
IEEE 802.11n Channel 1 20MHz Antenna 2



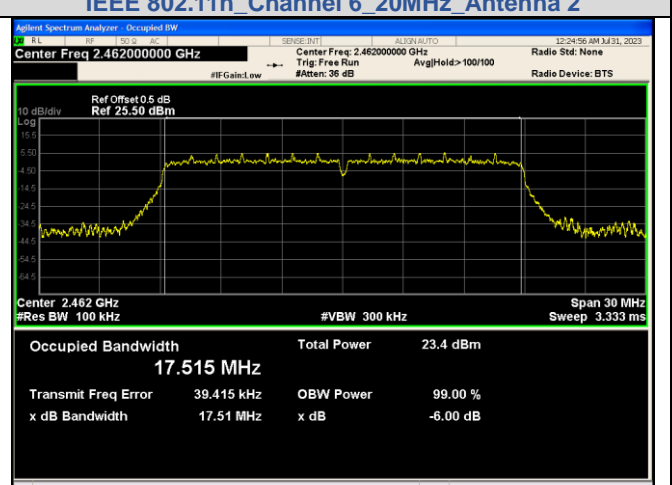
IEEE 802.11n Channel 6 20MHz Antenna 1



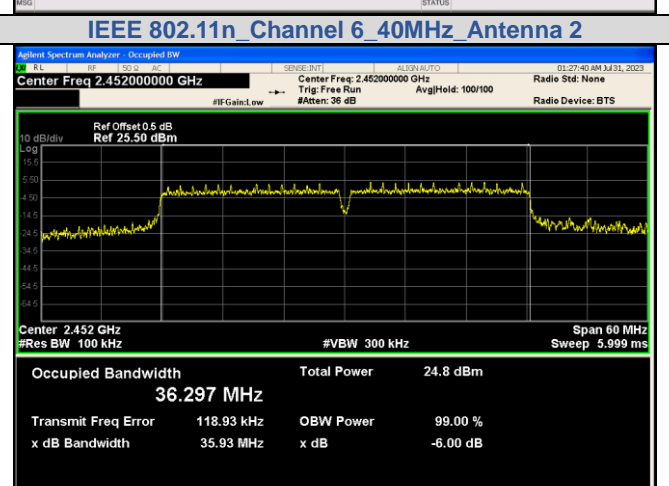
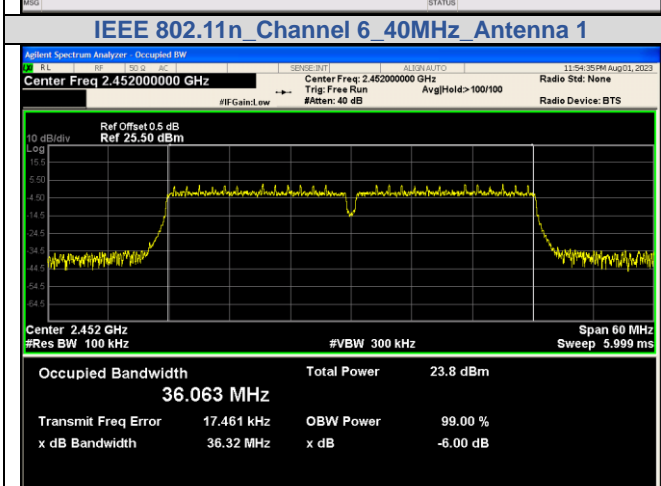
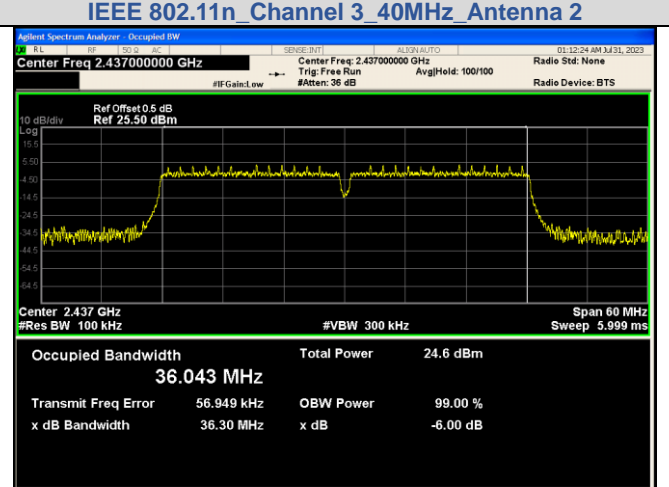
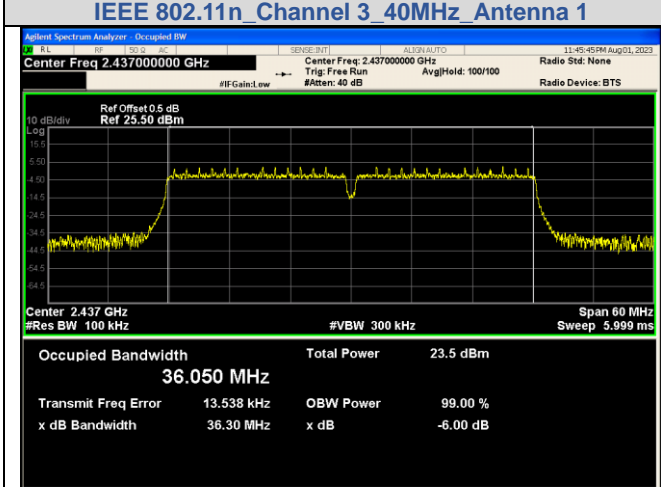
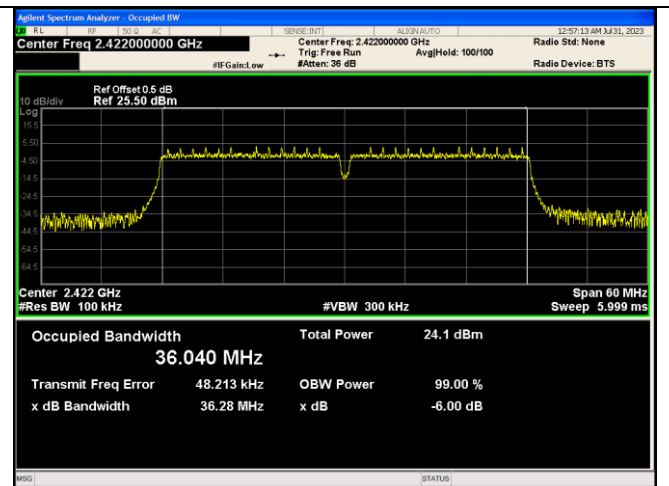
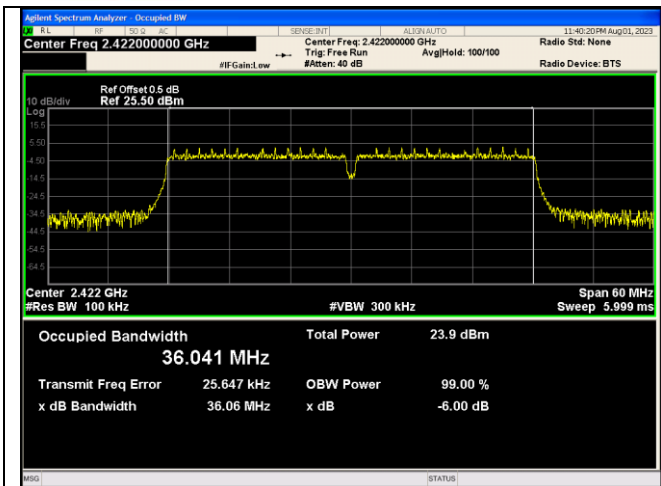
IEEE 802.11n Channel 6 20MHz Antenna 2



IEEE 802.11n Channel 11 20MHz Antenna 1



IEEE 802.11n Channel 11 20MHz Antenna 2



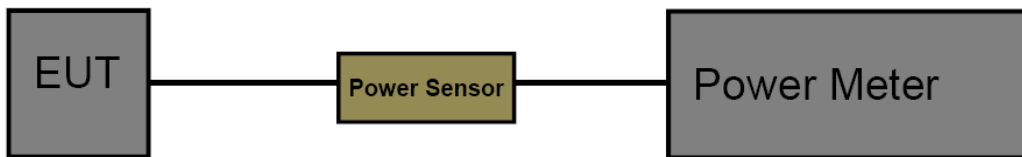
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part 15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband Peak RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its AVG power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
Record the measurement data.

Test Mode

Please refer to the clause 2.4.

Test Result

Mode	Channel	Ant. 1 (dBm)	Ant. 2 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	17.20	17.91	N/A	30	PASS
	6	16.64	17.72	N/A	30	PASS
	11	16.28	17.33	N/A	30	PASS
IEEE 802.11g	1	11.80	12.34	N/A	30	PASS
	6	11.28	12.12	N/A	30	PASS
	11	10.41	11.53	N/A	30	PASS
IEEE 802.11n_20	1	11.58	12.60	15.13	29.15	PASS
	6	11.02	11.78	14.43	29.15	PASS
	11	10.59	11.36	14.00	29.15	PASS
IEEE 802.11n_40	3	11.64	12.45	15.07	29.15	PASS
	6	11.21	11.89	14.57	29.15	PASS
	9	10.82	11.70	14.29	29.15	PASS



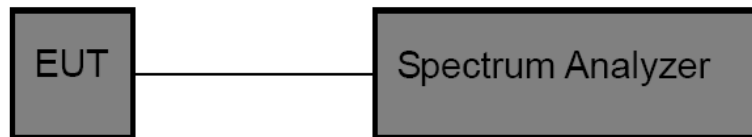
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz.
Set the VBW to: 10 kHz.
Detector: peak.
Sweep time: auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Mode	Channel	PSD (dBm/3kHz) Ant. 1	PSD (dBm/3kHz) Ant. 2	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-3.645	-3.743	N/A	8	PASS
	6	-3.984	-3.656	N/A		PASS
	11	-4.377	-4.192	N/A		PASS
IEEE 802.11g	1	-7.667	-6.730	N/A		PASS
	6	-7.924	-6.563	N/A		PASS
	11	-8.543	-7.174	N/A		PASS
IEEE 802.11n_20	1	-9.432	-8.266	-5.800	7.15	PASS
	6	-9.865	-8.948	-6.372		PASS
	11	-10.615	-9.612	-7.074		PASS
IEEE 802.11n_40	3	-10.633	-10.199	-7.400		PASS
	6	-10.382	-9.282	-6.787		PASS
	9	-10.059	-9.461	-6.739		PASS

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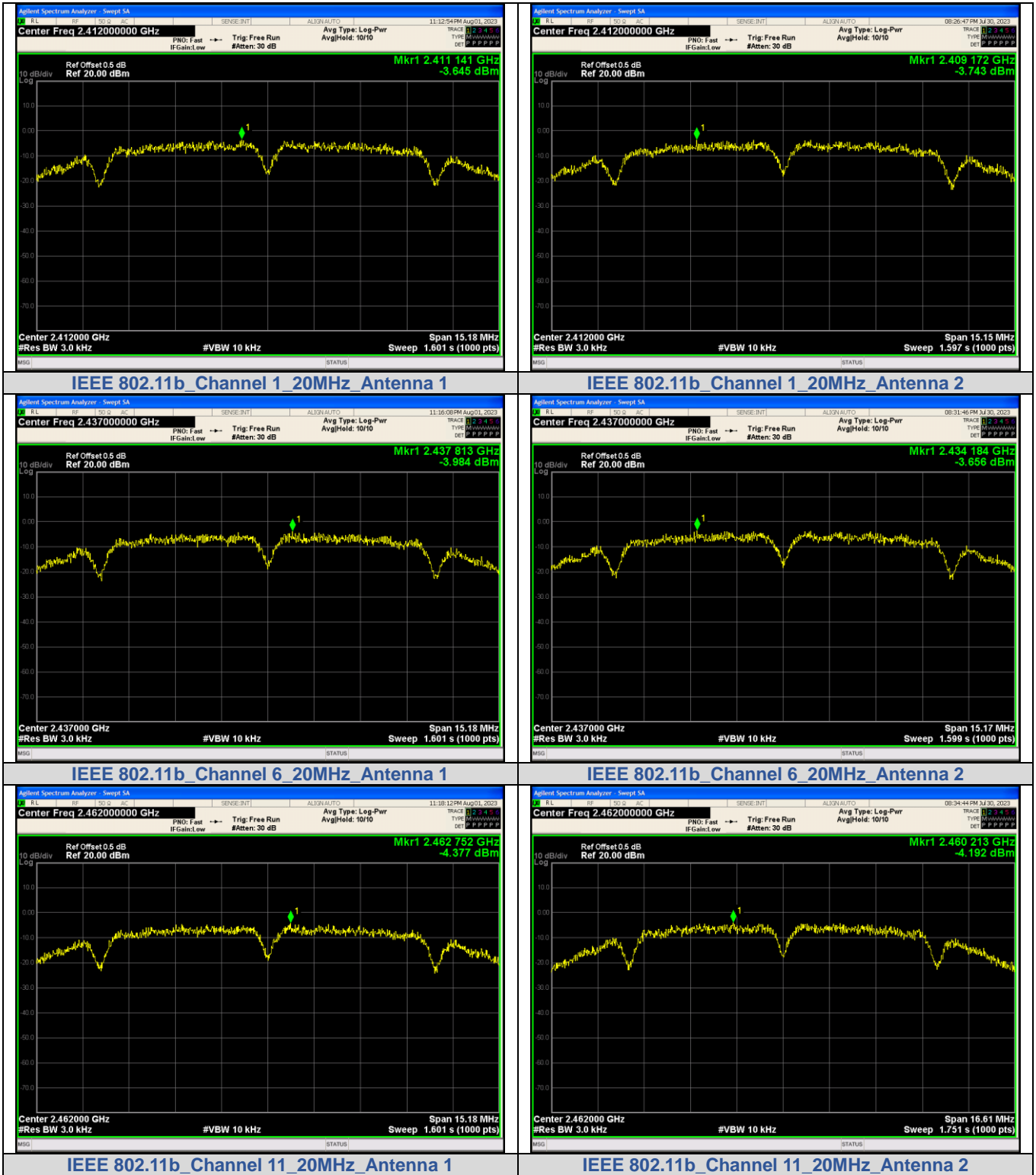
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059

Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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Test plot as follows:

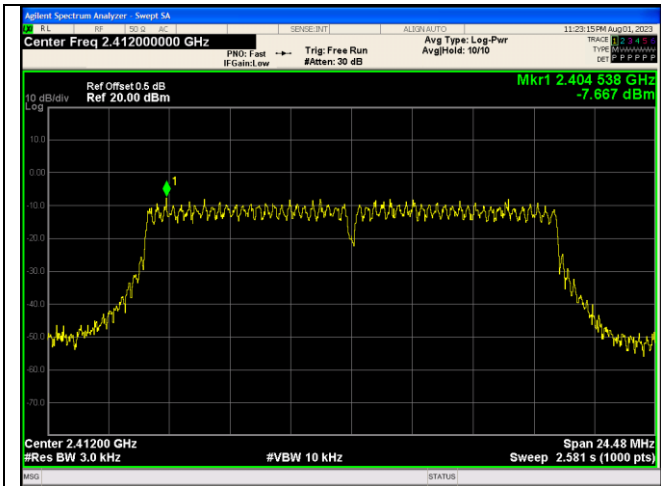


CTC Laboratories, Inc.

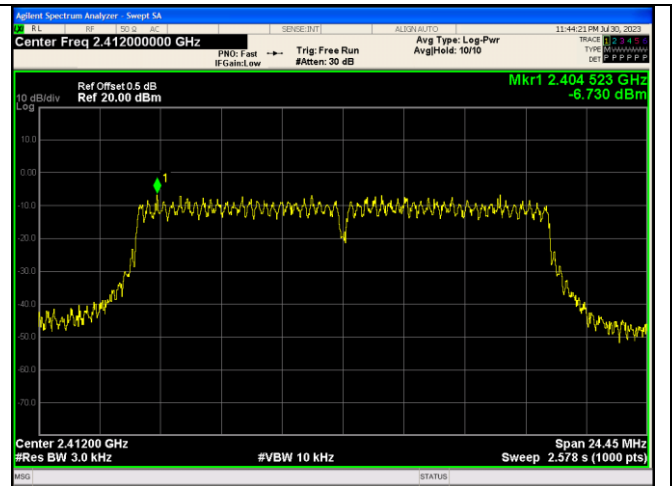
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



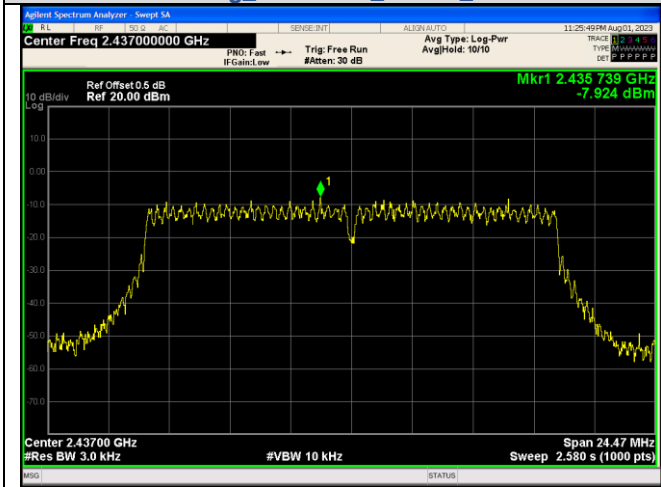
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



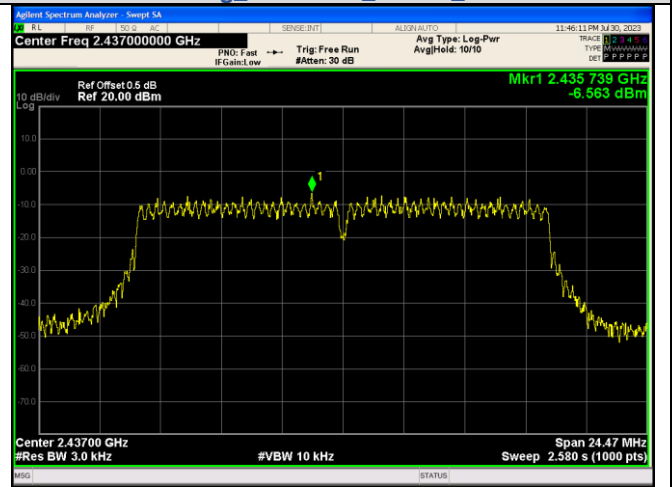
IEEE 802.11g_Channel 1_20MHz_Antenna 1



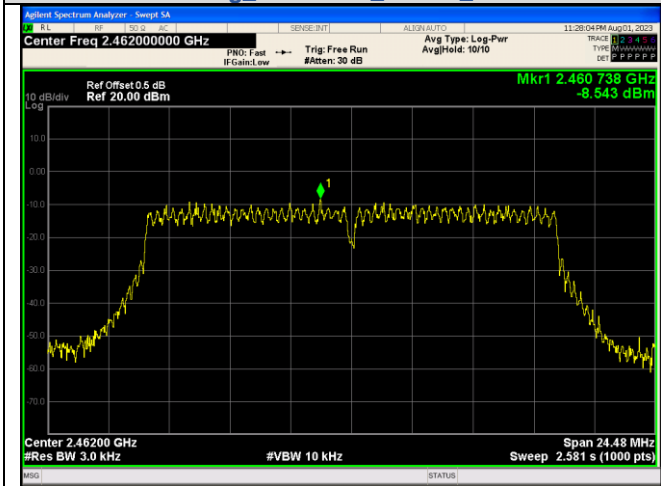
IEEE 802.11g_Channel 1_20MHz_Antenna 2



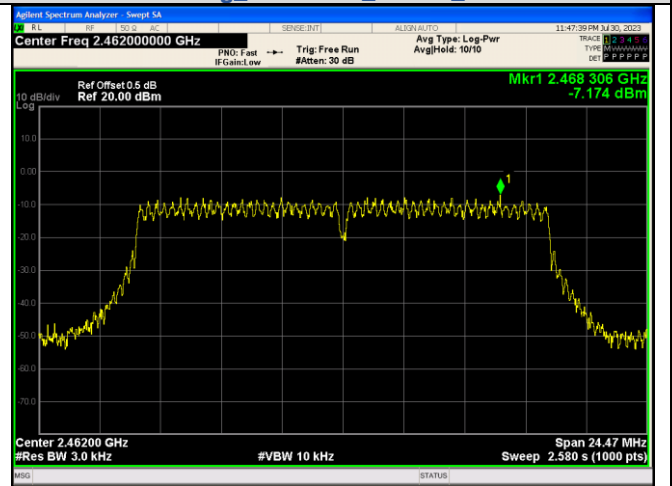
IEEE 802.11g_Channel 6_20MHz_Antenna 1



IEEE 802.11g_Channel 6_20MHz_Antenna 2



IEEE 802.11g_Channel 11_20MHz_Antenna 1



IEEE 802.11g_Channel 11_20MHz_Antenna 2