FCC TEST REPORT				
	FCC ID:2A2SV-CKC31W			
Report No. :	SSP25010057-2E			
Applicant :	Shenzhen Coolkit Technology Co., Ltd.			
Product Name :	CKC3-1-W			
Model Name :	CKC3-1-W-N16			
Test Standard :	FCC Part 15.247			
Date of Issue :	2025-02-10			
	CCUT			
	zhen CCUT Quality Technology Co., Ltd.			
	nology Industrial Park, Yutang Street, Guangming District, Shenzhen, (Tel.:+86-755-23406590 website: www.ccuttest.com)			
-	ove client company and the product model only. It may not be duplicated mitted by Shenzhen CCUT Quality Technology Co., Ltd.			

Test Report Basic Information

Applicant: Address of Applicant	Shenzhen Coolkit Technology Co., Ltd. B11, 2nd Floor, T6 Art Zone, No.6 Tongfa Road, Xili Town, Shenzhen, GuangDong, China				
Manufacturer: Address of Manufacturer:	Shenzhen Coolkit Technology Co., Ltd. B11, 2nd Floor, T6 Art Zone, No.6 Tongfa Road, Xili Town, Shenzhen, GuangDong, China				
Product Name:	CKC3-1-W				
Brand Name:	Cookit				
Main Model:	CKC3-1-W-N16				
Series Models	See section 1.1 (Page 5)				
Test Standard	FCC Part 15 Subpart C KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.4-2014 ANSI C63.10-2013				
Date of Test	2025-01-06 to 2025-01-20				
Test Result	PASS				
	Lorrix Lua (Lorzix Luo)				
Reviewed By	Lieber Ougang (Lieber Ouyang) APPROVED				
Authorized Signatory	Lahm Peng (Lahm Peng)				
-	to the above client company and the product model only. It may not be ted by Shenzhen CCUT Quality Technology Co., Ltd All test data presented in e to presented test sample.				

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Revision History

Revision	Issue Date	Description	Revised By	
V1.0	2025-02-10	Initial Release	Lahm Peng	

1. General Information

1.1 Product Information

Product Name:	CKC3-1-W		
Trade Name:	Cookit		
Main Model:	CKC3-1-W-N16		
Series Models:	СКСЗ-1-W-N4, СКСЗ-1-W-N8, СКСЗ-1-W-H4		
Rated Voltage:	3.0V-3.6V		
Power Adapter:	N/A		
Battery:	N/A		
Hardware Version:	CKC3-1-W V1.0		
Software Version:	N/A		
Note 1: The test data is gathered from a production sample, provided by the manufacturer.			
Note 2. The color of appearance and model name of caries models listed are different from the main model			

Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.

Wireless Specification				
Wireless Standard:	802.11b/g/n			
2412MHz ~ 2462MHz for 802.11b/g/n(HT20)				
Operating Frequency:	2422MHz ~ 2452MHz for 802.11n(HT40)			
RF Output Power:	7.83dBm			
Number of Channel:	11			
Channel Separation:	5MHz			
Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM			
Antenna Gain:	0.85dBi			
Type of Antenna:	Integral Antenna			
Type of Device:	Portable Device Mobile Device Modular Device			

1.2 Test Setup Information

List of Test Modes						
Test Mode	De	escription		Remark		
TM1	8	302.11b		2412MHz/2437MHz/2462MHz		
TM2	8	302.11g		2412MHz/2437MHz/2462MHz		
TM3	802	.11n(H20)		2412MHz/2437MHz/2462MHz		
TM4	802	.11n(H40)		2422MHz/2437MH	z/2452MHz	
List and Detai	ls of Auxiliary	v Cable				
Descrij	ption	Length (cm)		Shielded/Unshielded	With/Without Ferrite	
-		-		-	-	
-		-		-	-	
List and Details of Auxiliary Equipment						
Description Manufacturer Model Serial Num		Serial Number				
Adap	oter	EASTSUN		ES005-U120200XYC	ES2017103100047	
USB TC) TTL	Yeahbot		HW-597	-	

List of Chann	els						
No. of	Frequency	No. of	Frequency	No. of	Frequency	No. of	Frequency
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)	Channel	(MHz)
01	2412	05	2432	09	2452	13	
02	2417	06	2437	10	2457	14	
03	2422	07	2442	11	2462	15	
04	2427	08	2447	12		16	

1.3 Compliance Standards

Compliance Standards			
ECC Dout 15 Subport C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
All measurements contained in this	report were conducted with all above standards		
According to standards for test	methodology		
FCC Dest 15 Calment C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
KDB 558074 D01 15.247 Meas	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION		
	SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM		
Guidance v05r02	DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES		
	American National Standard for Methods of Measurement of Radio-Noise Emissions		
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40		
	GHz.		
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed		
ANSI C03.10-2015	Wireless Devices		
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which			
result is lowering the emission, should be checked to ensure compliance has been maintained.			

1.4 Test Facilities

	Shenzhen CCUT Quality Technology Co., Ltd.			
Laboratory Name:	1F, Building 35, Changxing Technology Industrial Park, Yutang Street,			
	Guangming District, Shenzhen, Guangdong, China			
CNAS Laboratory No.:	L18863			
A2LA Certificate No.:	6893.01			
FCC Registration No:	583813			
ISED Registration No.:	CN0164			
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing				
Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.				

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date		
Conducted Emissions							
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06		
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06		
Test Cable	N/A	Cable 5	N/A	2024-08-07	2025-08-06		
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A		
		Radiated Emission	15				
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06		
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06		
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2024-08-07	2025-08-06		
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06		
Amplifier	HUABO	YXL0518-2.5-45		2024-08-07	2025-08-06		
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2024-08-07	2025-08-06		
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02		
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02		
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02		
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024-08-03	2025-08-02		
Attenuator	QUANJUDA	6dB	220731	2024-08-07	2025-08-06		
Test Cable	N/A	Cable 1	N/A	2024-08-07	2025-08-06		
Test Cable	N/A	Cable 2	N/A	2024-08-07	2025-08-06		
Test Cable	N/A	Cable 3	N/A	2024-08-07	2025-08-06		
Test Cable	N/A	Cable 4	N/A	2024-08-07	2025-08-06		
Test Cable	N/A	Cable 8	N/A	2024-08-07	2025-08-06		
Test Cable	N/A	Cable 9	N/A	2024-08-07	2025-08-06		
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A		
	Conducted RF Testing						
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06		
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06		
RF Test Software	MWRFTest	MTS 8310	N/A	N/A	N/A		

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
	9kHz ~ 30MHz	±2.88 dB
Dediated Emissions	30MHz ~ 1GHz	±3.32 dB
Radiated Emissions	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Conducted Output Power	9kHz ~ 26GHz	±0.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
Conducted Spurious Emission	9kHz ~ 26GHz	±1.32 dB
Power Spectrum Density	9kHz ~ 26GHz	±0.62 dB

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.247(i)	RF Exposure(see the RF exposure report)	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.247(d)	Radiated Emissions	Passed
FCC Part 15.247(d)	Band-edge Emissions(Radiated)	Passed
FCC Part 15.247(b)(3)	Maximum Conducted Output Power	Passed
FCC Part 15.247(a)(2)	Occupied Bandwidth	Passed
FCC Part 15.247(e)	Maximum Power Spectral Density	Passed
FCC Part 15.247(d)	Band-edge Emissions(Conducted)	Passed
FCC Part 15.247(d)	Conducted RF Spurious Emissions	Passed
Passed: The EUT complies with the es	sential requirements in the standard	·
Failed: The EUT does not comply with	the essential requirements in the standard	
N/A: Not applicable		

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

4. Conducted Emissions

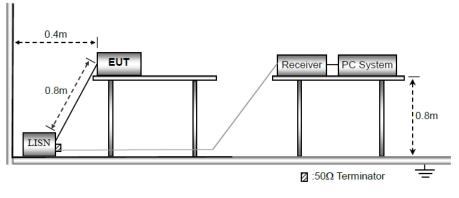
4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission	Conducted emis	ssions (dBuV)					
(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56	56 to 46					
0.5-5	56	46					
5-30	60	50					
Note 1: Decreases with the log	Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz						
Note 2: The lower limit applies	s at the band edges						

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver
Attenuation: 10dB
Start Frequency: 0.15MHz
Stop Frequency: 30MHz
IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

Test F	Plots	and Data	of Co	ndu	cteo	d Er	nis	sio	ns																
Teste	d Mo	de:		ΤМ	1																				
Test V	/oltag	ge:		AC	120	V/e	50H	łz																	
Test F	Powe	r Line:		Neu	ıtra	1																			
Rema	ırk:																								
90.0	dB	uV																							
[7
80							_					<u> </u>						_					_		-
70																									
60																							+		-
50							_					<u> </u>			_										-
40							+																		
40			1					3 X	ventermeter																
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0										4															H
-10																									
0.5	150	I	_	0.	.500						0	(Hz)			5.0	000								30.	ōōo
	F	requency	Rea	ading	1	Fac	tor		Level		Lin	nit	Marg	nin											
No.	· '	(MHz)		BuV)	'	(dE			(dBuV)		(dBu		(dB		Detector	P/	F	Rer	ma	rk					
1		0.3435	22	2.81		9.3	9		32.20		59.	12	-26.9	92	QP	F									
2	_	0.3435		.44		9.3			20.83		49.		-28.2		AVG	F									
3 *		0.8745		6.05	_	9.3		_	35.43	\downarrow	56.		-20.5		QP	F	_								
4	_	0.8745		3.90 9.98	+	9.3 9.4		+	23.28 29.42	+	46. 56.		-22.7		AVG QP	F									
6	_	1.4910		.39	+	9.4		+	17.83	+	46.		-20.0		AVG	F									
7		3.3090		5.78	+	9.5		+	25.29	+	56.		-30.7		QP	F									
8	_	3.3090		.06		9.5			11.57		46.		-34.4	43	AVG	F	>								
9		5.5050	13	3.14		9.5	7		22.71		60.		-37.2	29	QP	F	>								
10		5.5050		.70		9.5			8.87		50.		-41.1		AVG	F									
11		29.0490		9.66		10.			29.76		60.		-30.2		QP	F									
12		29.0490	11	.55		10.	10		21.65		50.	10	-28.3	35	AVG	F	,								

Test I	Plots and Data	of Conduct	ed Emissi	ons							
Teste	d Mode:	TM1									
Test V	Voltage:	AC 12	20V/60Hz	Z							
Test I	Power Line:	Live									
Rema	ark:										
90.0	dBu¥										
Γ											
80											
70				_							
ŀ											
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0.1	50	0.50	10		(MHz)		5.0)00		30.000	ļ
No	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark		
1	0.2400	23.80	9.47	33.27	62.10	-28.83	QP	P			
2	0.2400	12.54	9.47	22.01	52.10	-30.09	AVG	Р			
3 '	* 0.8745	24.53	9.57	34.10	56.00	-21.90	QP	Ρ			
4	0.8745	11.91	9.57	21.48	46.00	-24.52	AVG	Р			
5	1.8870	17.83	9.65	27.48	56.00	-28.52	QP	P			
6	1.8870 5.6760	6.00 12.72	9.65 9.76	15.65 22.48	46.00	-30.35 -37.52	AVG QP	P P			
8	5.6760	-0.76	9.76	9.00	50.00	-37.52	AVG	P			
9	14.9505	12.44	9.72	22.16	60.00	-37.84	QP	P			-
10	14.9505	-1.24	9.72	8.48	50.00	-41.52	AVG	Р			-
11	29.8950	20.39	10.34	30.73	60.00	-29.27	QP	P			\neg
12		8.14	10.34	18.48	50.00	-31.52	AVG	Ρ			\neg

5. Radiated Emissions

5.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

Frequency of Emission	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3
Note: The more stringent limit applies	at transition frequencies.	

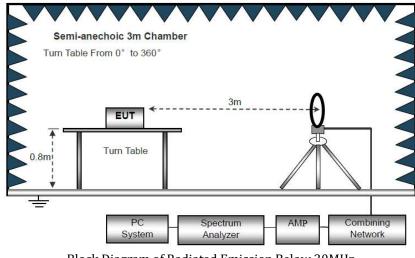
According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

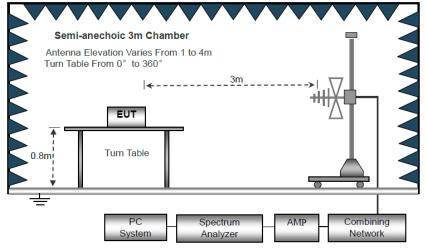
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

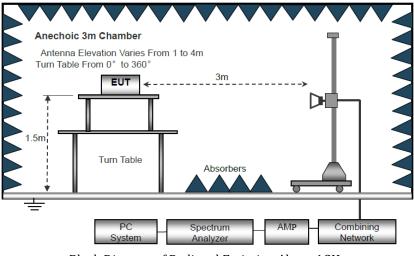
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings: Span = wide enough to fully capture the emission being measured RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz VBW \ge RBW, Sweep = auto Detector function = peak Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

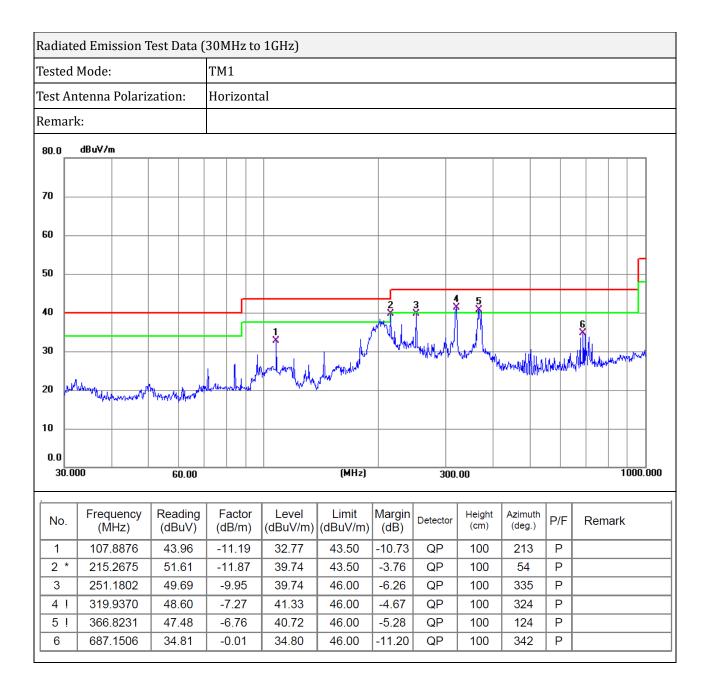
e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

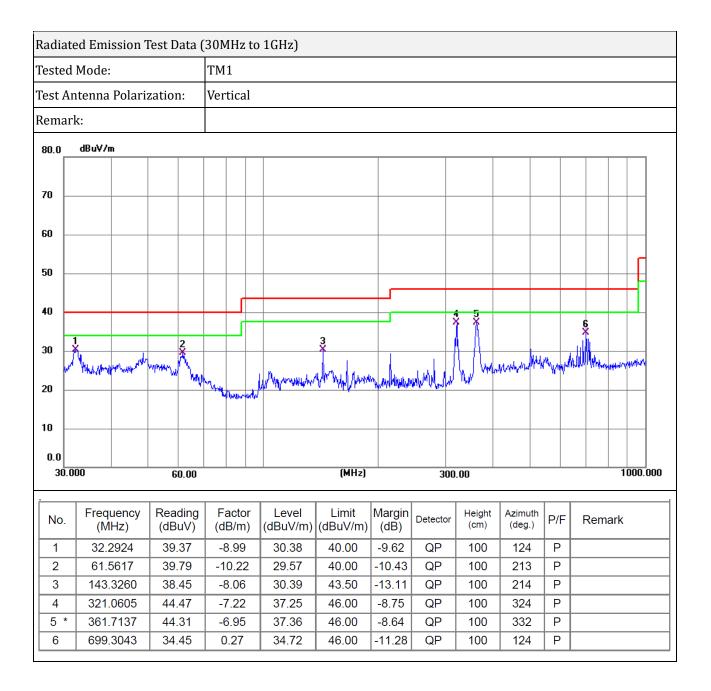
f) For the actual test configuration, please refer to the related item - EUT test photos.

5.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.247 standard limit for a wireless device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit





Radiated Emi	ission Test Dat	ta (Above 1GH	z)				
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
			Lowest Chann	nel (2412MHz)			
			Horiz	zontal			
1715.000	40.00	-17.51	22.49	54.00	-31.51	Н	AVG
1740.000	48.43	-17.48	30.95	74.00	-43.05	Н	PK+
2400.000	51.06	-14.09	36.97	74.00	-37.03	Н	PK+
2400.000	42.49	-14.09	28.40	54.00	-25.6	Н	AVG
2850.000	38.76	-11.82	26.94	54.00	-27.06	Н	AVG
2940.000	45.05	-11.39	33.66	74.00	-40.34	Н	PK+
3345.000	45.35	-10.48	34.87	74.00	-39.13	Н	PK+
3355.000	39.29	-10.48	28.81	54.00	-25.19	Н	AVG
			Ver	tical			
1725.000	47.58	-17.5	30.08	74.00	-43.92	V	PK+
1725.000	39.66	-17.5	22.16	54.00	-31.84	V	AVG
2425.000	57.88	-13.97	43.91	74.00	-30.09	V	PK+
2425.000	46.64	-13.97	32.67	54.00	-21.33	V	AVG
2970.000	46.95	-11.24	35.71	74.00	-38.29	V	PK+
2975.000	39.31	-11.21	28.10	54.00	-25.9	V	AVG
3480.000	46.14	-10.28	35.86	74.00	-38.14	V	PK+
3495.000	39.52	-10.25	29.27	54.00	-24.73	V	AVG

			Middle Chann	el (2437MHz)								
	Horizontal											
1790.000	46.96	-17.43	29.53	74.00	-44.47	Н	PK+					
1830.000	39.27	-17.2	22.07	54.00	-31.93	Н	AVG					
2435.000	52.91	-13.92	38.99	74.00	-35.01	Н	PK+					
2435.000	48.07	-13.92	34.15	54.00	-19.85	Н	AVG					
2960.000	38.58	-11.29	27.29	54.00	-26.71	Н	AVG					
2980.000	45.41	-11.19	34.22	74.00	-39.78	Н	PK+					
3675.000	38.17	-9.52	28.65	54.00	-25.35	Н	AVG					
3735.000	44.31	-9.33	34.98	74.00	-39.02	Н	PK+					
			Vert	tical								
1950.000	46.21	-16.34	29.87	74.00	-44.13	V	PK+					
1950.000	39.81	-16.34	23.47	54.00	-30.53	V	AVG					
2435.000	51.54	-13.92	37.62	74.00	-36.38	V	PK+					
2440.000	46.01	-13.89	32.12	54.00	-21.88	V	AVG					
2815.000	46.31	-11.97	34.34	74.00	-39.66	V	PK+					
2815.000	39.98	-11.97	28.01	54.00	-25.99	V	AVG					
3675.000	46.18	-9.52	36.66	74.00	-37.34	V	PK+					
3705.000	39.01	-9.42	29.59	54.00	-24.41	V	AVG					

			Highest Chanr	nel (2462MHz)						
	Horizontal										
2170.000	40.17	-14.88	25.29	54.00	-28.71	Н	AVG				
2185.000	46.53	-14.78	31.75	74.00	-42.25	Н	PK+				
2480.000	54.89	-13.69	41.20	74.00	-32.8	Н	PK+				
2480.000	45.34	-13.69	31.65	54.00	-22.35	Н	AVG				
2950.000	45.74	-11.34	34.40	74.00	-39.6	Н	PK+				
2955.000	39.94	-11.31	28.63	54.00	-25.37	Н	AVG				
3480.000	39.50	-10.28	29.22	54.00	-24.78	Н	AVG				
3485.000	46.55	-10.27	36.28	74.00	-37.72	Н	PK+				
			Ver	tical							
1995.000	47.63	-16.01	31.62	74.00	-42.38	V	PK+				
2000.000	40.27	-15.98	24.29	54.00	-29.71	V	AVG				
2425.000	57.80	-13.97	43.83	74.00	-30.17	V	PK+				
2425.000	48.00	-13.97	34.03	54.00	-19.97	V	AVG				
3170.000	46.90	-10.66	36.24	74.00	-37.76	V	PK+				
3215.000	38.97	-10.55	28.42	54.00	-25.58	V	AVG				
4080.000	45.58	-8	37.58	74.00	-36.42	V	PK+				
4160.000	40.85	-7.81	33.04	54.00	-20.96	V	AVG				

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

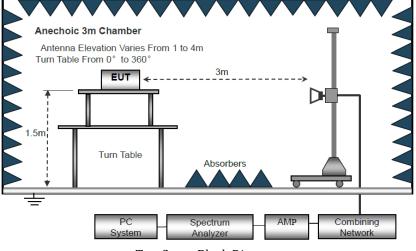
6. Band-edge Emissions(Radiated)

6.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

6.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.247 standard limit, and with the worst case as below:

Test Mode	Frequency	Limit	Result
Test Mode	MHz	dBuV/m	Kesuit
Louroat	2310.00	<54 dBuV/m	Pass
Lowest	2390.00	<54 dBuV/m	Pass
Uighost	2483.50	<54 dBuV/m	Pass
Highest	2500.00	<54dBuV/m	Pass

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
		Low	est Channel (8	02.11b_2412N	/Hz)		
2310	67.66	-21.34	46.32	74	-27.68	Н	РК
2310	52.31	-21.34	30.97	54	-23.03	Н	AV
2390	69.85	-20.96	48.89	74	-25.11	Н	РК
2390	51.84	-20.96	30.88	54	-23.12	Н	AV
2400	68	-20.91	47.09	74	-26.91	Н	РК
2400	55.93	-20.91	35.02	54	-18.98	Н	AV
2310	64.12	-21.34	42.78	74	-31.22	V	РК
2310	52.1	-21.34	30.76	54	-23.24	V	AV
2390	67.34	-20.96	46.38	74	-27.62	V	РК
2390	49.31	-20.96	28.35	54	-25.65	V	AV
2400	74.26	-20.91	53.35	74	-20.65	V	РК
2400	52.82	-20.91	31.91	54	-22.09	V	AV
		High	est Channel (8	302.11b_24621	MHz)		
2483.50	72.07	-20.51	51.56	74	-22.44	Н	РК
2483.50	53.33	-20.51	32.82	54	-21.18	Н	AV
2500	68.8	-20.43	48.37	74	-25.63	Н	РК
2500	49.78	-20.43	29.35	54	-24.65	Н	AV
2483.50	71.17	-20.51	50.66	74	-23.34	V	РК
2483.50	52.84	-20.51	32.33	54	-21.67	V	AV
2500	69.48	-20.43	49.05	74	-24.95	V	РК
2500	52.48	-20.43	32.05	54	-21.95	V	AV

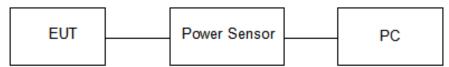
7. Maximum Peak conducted output power

7.1 Standard and Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power Meter.



Test Setup Block Diagram

Test Mode	Test Channel MHz	Peak Conducted Power (dBm)	Limit (dBm)	Test Result
	2412	7.83	30	Pass
802.11b	2437	7.48	30	Pass
	2462	7.35	30	Pass
	2412	7.8	30	Pass
802.11g	2437	7.03	30	Pass
	2462	7.4	30	Pass
	2412	7.16	30	Pass
802.11n(HT20)	2437	7.29	30	Pass
	2462	7.28	30	Pass
	2422	7.06	30	Pass
802.11n(HT40)	2437	7.67	30	Pass
	2452	7.62	30	Pass

8. DTS Bandwidth

8.1 Standard and Limit

According to 15.247(a)(2), Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

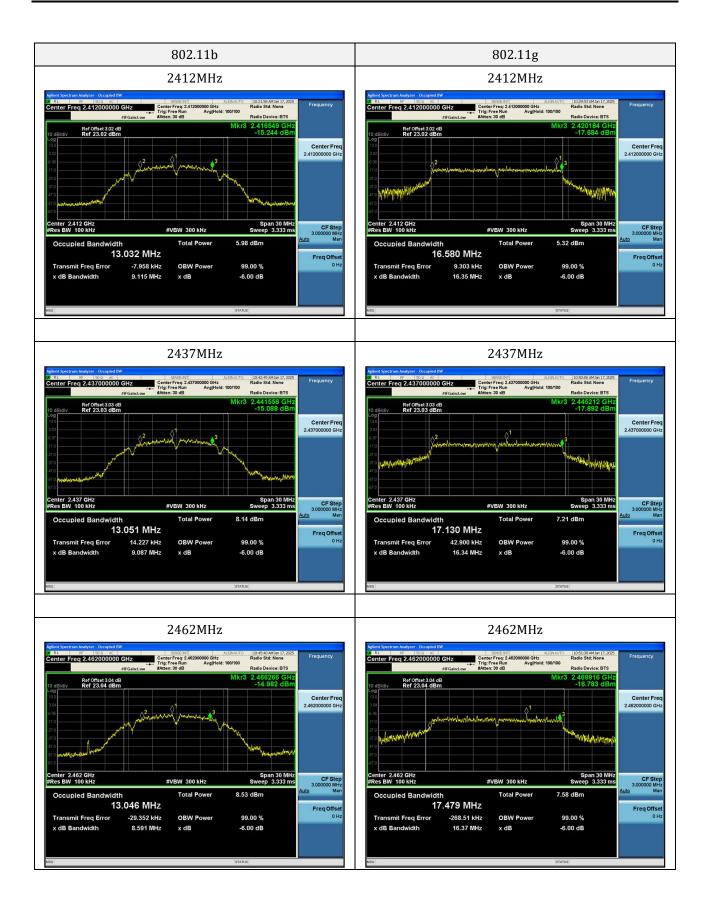
8.2 Test Procedure

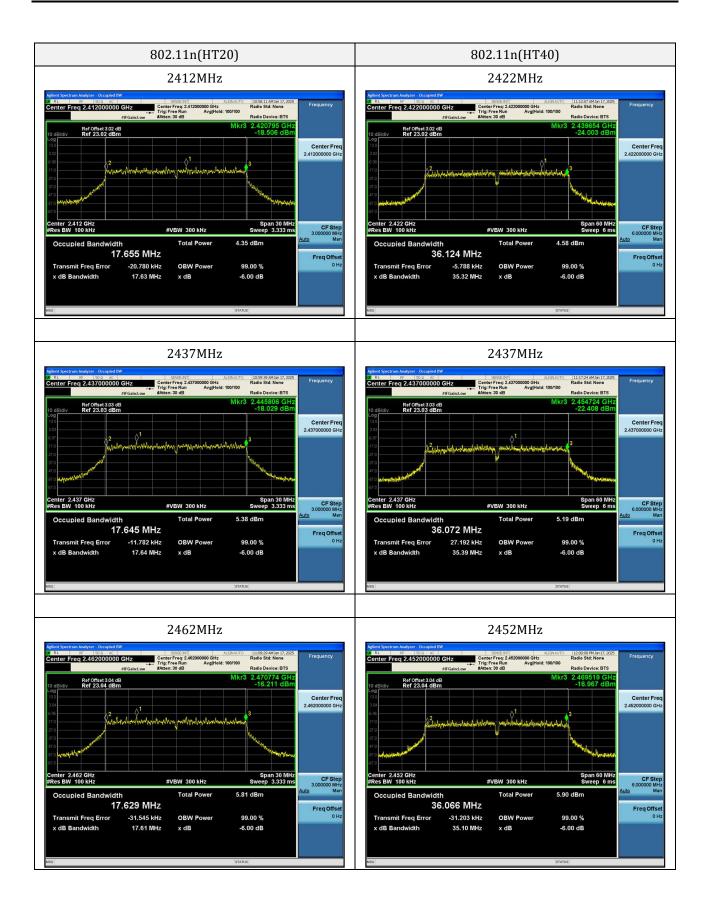
The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. Measured the 6dB bandwidth by related function of the spectrum analyzer.



Test Setup Block Diagram

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Test Result
	2412	9.115	0.5	Pass
802.11b	2437	9.087	0.5	Pass
	2462	8.591	0.5	Pass
	2412	16.349	0.5	Pass
802.11g	2437	16.338	0.5	Pass
	2462	16.368	0.5	Pass
	2412	17.632	0.5	Pass
802.11n(HT20)	2437	17.635	0.5	Pass
	2462	17.611	0.5	Pass
	2422	35.319	0.5	Pass
802.11n(HT40)	2437	35.394	0.5	Pass
	2452	35.101	0.5	Pass





9. Maximum Power Spectral Density

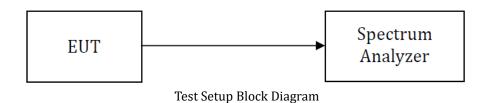
9.1 Standard and Limit

According to FCC 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

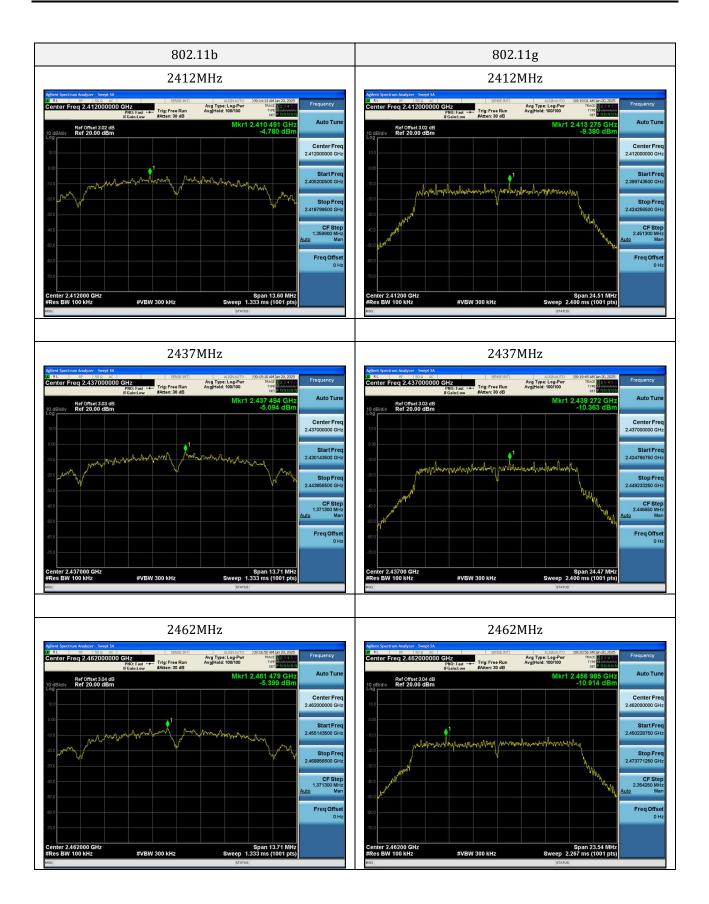
9.2 Test Procedure

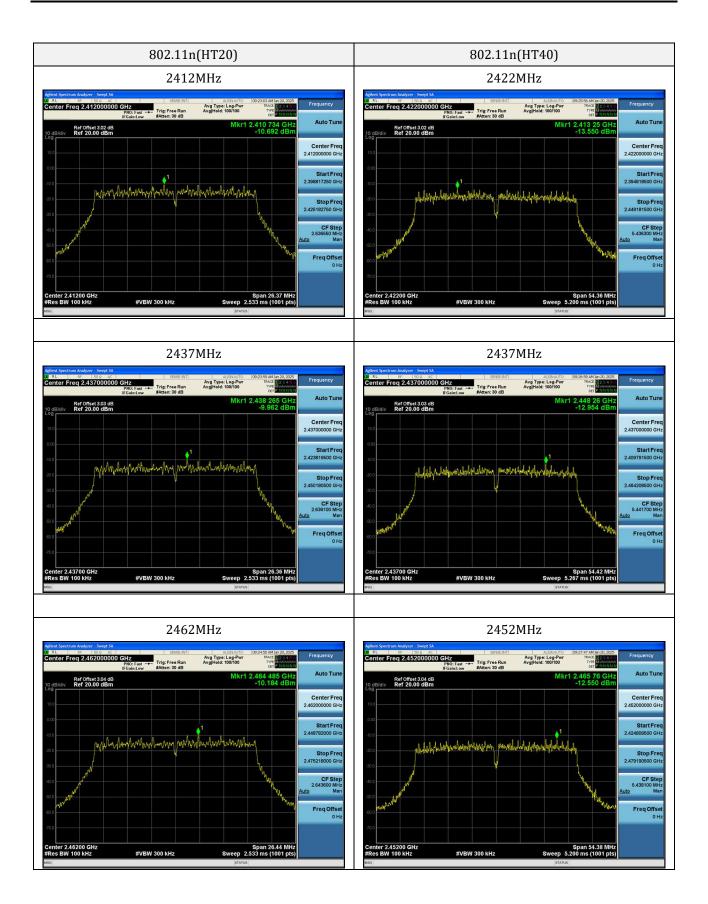
1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.

- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = RMS.
- 4) Measure the highest amplitude appearing on spectral display and mark the value.
- 5) Repeat above procedures until all frequencies measured were complete.



Test Mode	Test Channel MHz	Power Spectral Density Limit (dBm/100kHz) (dBm/3kl		Test Result
802.11b	2412	-4.78	8	Pass
	2437	-5.09	8	Pass
	2462	-5.4	8	Pass
802.11g	2412	-9.38	8	Pass
	2437	-10.36	8	Pass
	2462	-10.91	8	Pass
802.11n(HT20)	2412	-10.69	8	Pass
	2437	-9.96	8	Pass
	2462	-10.18	8	Pass
802.11n(HT40)	2422	-13.55	8	Pass
	2437	-12.95	8	Pass
	2452	-12.55	8	Pass





10. Band-edge Emission(Conducted)

10.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

10.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.10.

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.

2) Set the spectrum analyzer to any one measured frequency within its operating range.

3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = Peak.

4) Measure the highest amplitude appearing on spectral display and set it as a reference level.

5) Set a convenient frequency span including 100 kHz bandwidth from band edge.

6) Measure the emission and marking the edge frequency.

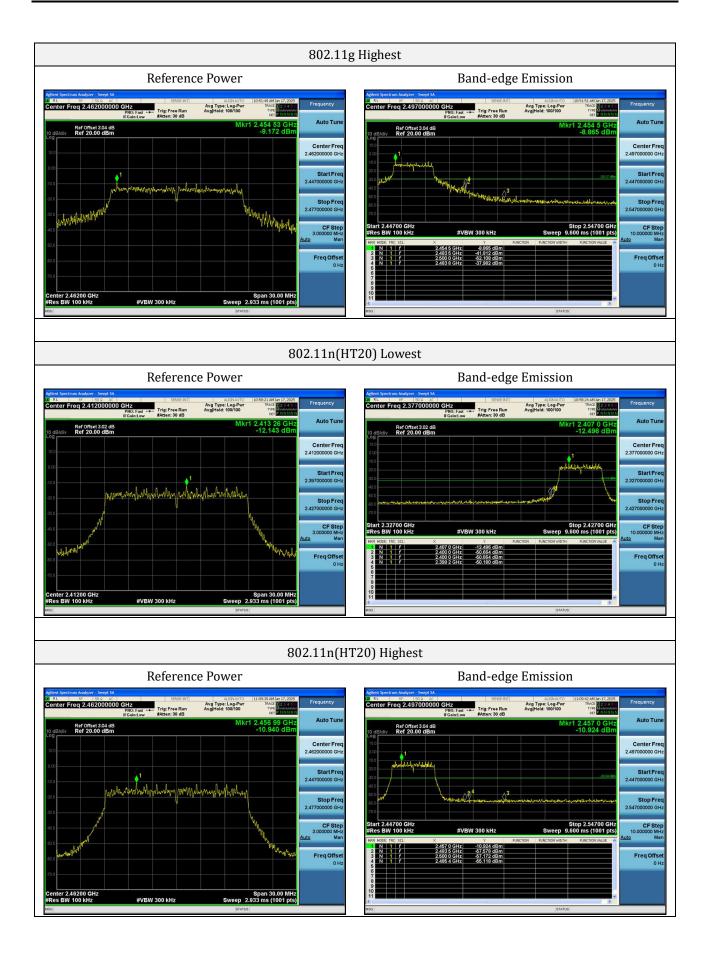
7) Repeat above procedures until all frequencies measured were complete.

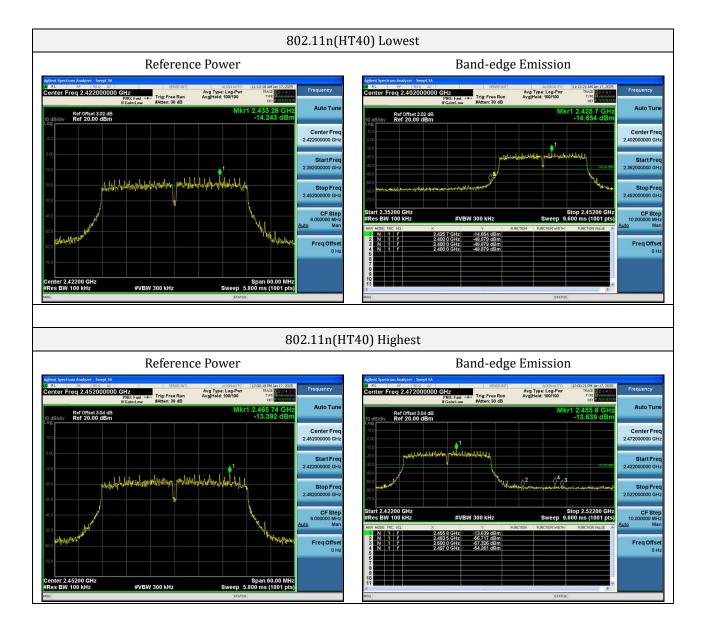


Test Setup Block Diagram

Test Mode	Band-edge	Test Channel (MHz)	Max. Value (dBc)	Limit (dBc)	Test Result
802.11b	Lowest	2412	-45.25	-20	Pass
	Highest	2462	-43.98	-20	Pass
802.11g	Lowest	2412	-26.44	-20	Pass
	Highest	2462	-28.81	-20	Pass
802.11n(HT20)	Lowest	2412	-38.04	-20	Pass
	Highest	2462	-44.17	-20	Pass
802.11n(HT40)	Lowest	2422	-34.63	-20	Pass
	Highest	2452	-40.87	-20	Pass







11. Conducted RF Spurious Emissions

11.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

11.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.7.

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.

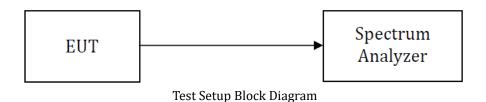
2) Set the spectrum analyzer to any one measured frequency within its operating range.

3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = Peak.

4) Measure the highest amplitude appearing on spectral display and set it as a reference level.

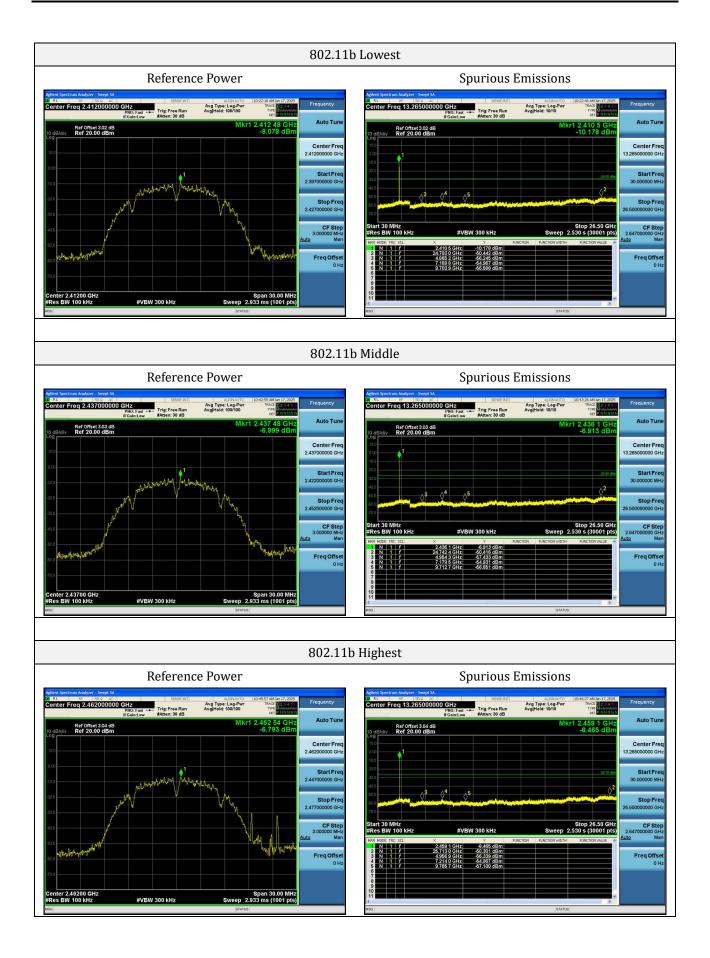
5) Measure the spurious emissions with frequency range from 9kHz to 26.5GHz.

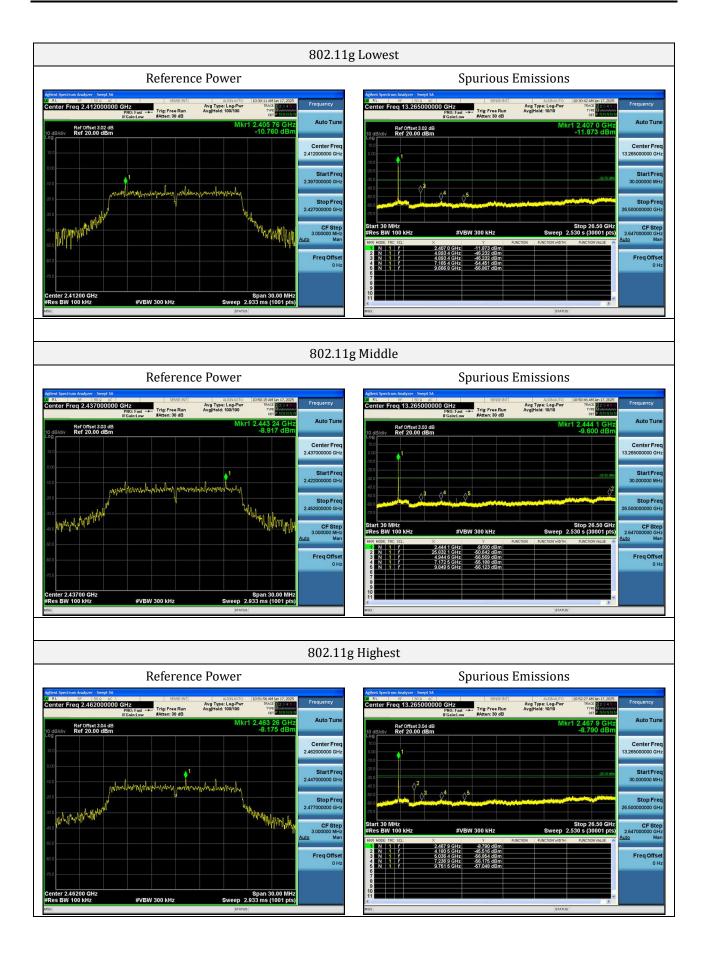
6) Repeat above procedures until all measured frequencies were complete.

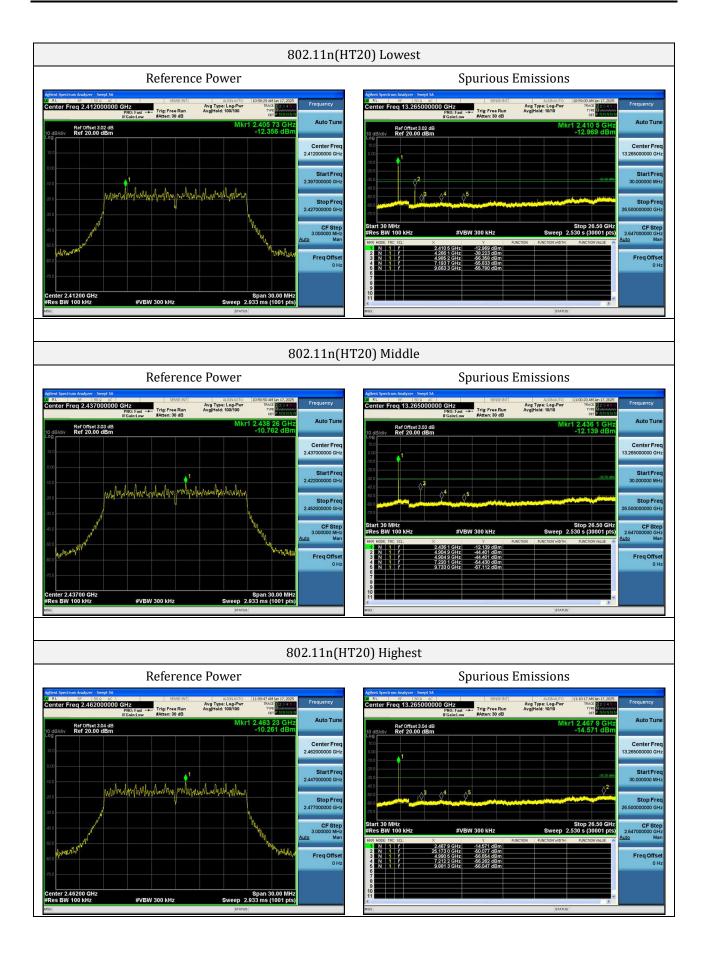


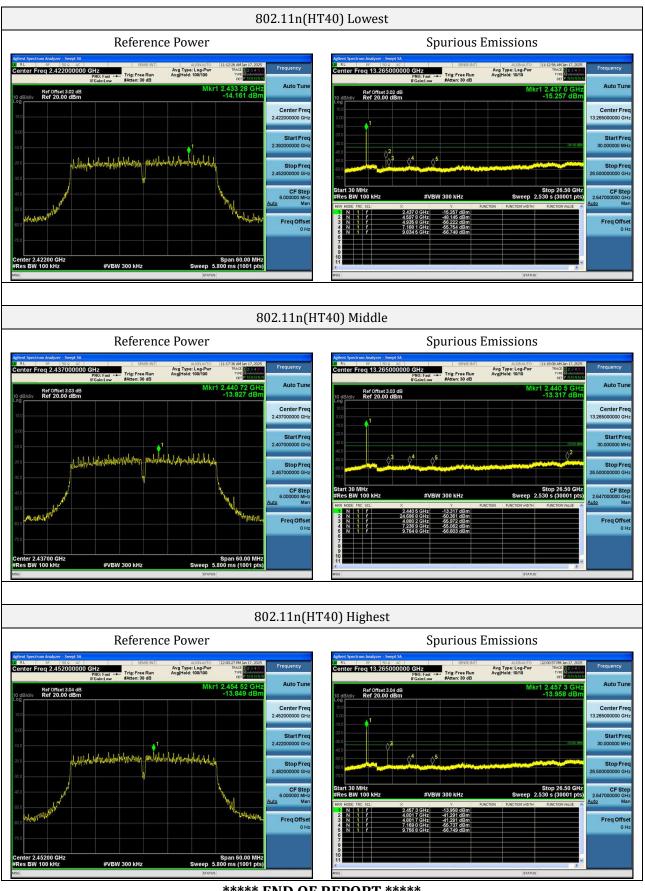
11.3 Test Data and Results

Note: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions measurement data.









***** END OF REPORT *****