

Date of Issue: 17 April 2018 Report No.: WH-MPE-R18010706

FCC ID.: 2AO94-MK100

FCC 47 CFR PART 15 SUBPART C 15.247

TEST REPORT

FOR

WIFI SMART PLUG MINI

Model: MK100, MK101, MK102, MK103, MK104, MK105, MK106, MK107, MK108, MK109, MK110

Issued to

MOKO TECHNOLOGY LIMITED

2F, Building1,No.37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China Issued by WH Technology Corp.





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1. GENERAL INFORMATION

Applicant/

: MOKO TECHNOLOGY LIMITED

Manufacturer Address

: 2F, Building1,No.37 Xiaxintang Xintang village, Fucheng

Street, Longhua District, Shenzhen, Guangdong Province,

China

Factory : MOKO TECHNOLOGY LIMITED

Address : 2F, Building1,No.37 Xiaxintang Xintang village, Fucheng

Street, Longhua District, Shenzhen, Guangdong Province,

China

EUT : WiFi Smart Plug Mini

Model Name : MK100, MK101, MK102, MK103, MK104, MK105, MK106,

MK107, MK108, MK109, MK110

Trade Name : N/A

Model : Only model name is different, the other exactly the same.

Differences Model name difference is only for different customer needs.

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report

shows the maximum emission levels emanating

FCC part 15 Subpart C

Receipt Date: 04/02/2018 Final Test Date: 04/02/2018

Tested By: Reviewed by:

April 17, 2018

(Date)

Bing Chang/ Engineer

April 17, 2018 (Date)

Mike Lee / Manager

Designation Number: TW2954



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2. REPORT OF MEASUREMENTS AND EXAMINATIONS

2.1 LIST OF MEASUREMENTS AND EXAMINATIONS

FCCRule	. Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209	Dadiated Emission	Pass
15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307		
1.1310	. RF Exposure Compliance	Pass
2.1091	. RE Exposure Compilance	Fass
2.1093		



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3. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

3.1 DESCRIPTION OF THE TESTED SAMPLES

EUT Name	: WiFi Smart Plug Mini
Model Number	: MK100
FCC ID	: 2AO94-MK100
Receipt Date	: March 05, 2018
Input Voltage	: 100-120V~AC, 60Hz, 15A
Operate Frequency	: 2412~2462MHz
Modulation Technique	: OFDM/DSSS
Number of Channels	: 11 CH
Operating Mode	: 802.11b:11/5.5/2/1 Mbps
	802.11g:54/48/36/24/18/12/9/6 Mbps
	802.11n:up to 150 Mbps
Antenna Type	: PCB Antenna
Channel Space	: 5MHz
Antenna gain	: 3dBi

3.2 CARRIER FREQUENCY OF CHANNELS

W	/IFI
802.11b/	/g/n(HT20)
Channel	Frequency (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462



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3.3 TEST MODE AND TEST SOFTWARE

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10-2013.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive "ESP Series Modules FCC & CE Test Tool V2.2.3" under Win 7 was executed to keep transmitting and receiving data via Wireless.
- d. The following test modes were performed for test:—802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
- e.only the worst case was recorded in this report



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3.4 TEST METHODOLOGY & GENERAL TEST PROCEDURES

All testing as described bellowed were performed in accordance with ANSI C63.10:2013 and FCC CFR 47 Part 15 Subpart C.

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.10:2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is a placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

- 1)Putting the EUT on the platform and turning on the EUT (on/off button on the bottom of the EUT).
- 2)Setting test channel described as "Channel setting and operating condition", and testing channel by channel.
- 3)For the maximum output power measurement, we followed the method of measurement KDB558074 D01.
- 4)For the spurious emission test based on ANSI(2014), at the frequency where below 1GHz used quasi-peak detector mode; where above 1GHz used the peak and average detector mode. IF the peak value may be under average limit, the average mode will not be performed.

3.5 MEASUREMENT UNCERTAINTY

Measurement Item	Uncertainty
Radiated emission	±4.11dB
Peak Output Power(conducted)	±1.38dB
Peak Output Power(Radiated)	±1.70dB
Power Spectral Density	±1.39dB
Radiated emission(3m)	±4.11dB
Radiated emission(10m)	±3.89dB



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3.6 DESCRIPTION OF THE SUPPORT EQUIPMENTS

Setup Diagram

See test photographs attached in appendix 1 for the actual connections between EUT and support equipment.

Support Equipment

Peripherals Devices:

		OUTS	SIDE SUPPO	ORT EQUIP	MENT		
No.	Equipment	Model	Serial No.	FCC ID	Trade	Date	Power
INO.	Lquipinient	Model	Serial No.	מוטסו	name	Cable	Cord
1.	Lap top	14q-by00 1AX	N/A	FCC DOC	HP	N/A	N/A
2.	AC adapter	QX6.5W7 5100FG	N/A	VOC	Stos	N/A	N/A
		IN	SIDE SUPP	ORT EQUIP	PMENT		
No.	Equipment	Model	Serial No.	FCC ID	Trade	Date	Power
INO.	Equipment	iviodei	Serial NO.	רט וט	name	Cable	Cord
1.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All the above equipment /cable were placed in worse case position to maximize emission signals during emission test

Grounding: Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.



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4. TEST AND MEASUREMENT EQUIPMENT

4.1 CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2 EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards. Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.



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TABLELIST OF TEST AND MEASUREMENT EQUIPMENT

Instrument	Manufacturer	Model No.	S/N	Next Cal. Date
EMI Receiver	R&S	ESHS10	830223/008	2018/06/06
LISN	Rolf Heine Hochfrequenztechnik	NNB-2/16z	98062	2018/06/11
ISN	Schwarzbeck	8-Wire ISN CAT5	CAT5-8158- 0094	2018/09/21
RF Cable	N/A	N/A	EMI-3	2018/10/19
Bilog antenna(30M-1G)	ETC	MCTD2786 B	BLB16M040 04/JB-5-004	2018/05/18
Double Ridged Guide Horn antenna(1G-18G)	ETC	MCTD 1209	DRH15N020 09	2018/11/23
Horn antenna (18G-26G)	com-power	AH-826	81000	2018/08/16
LOOP Antenna (Below 30M)	com-power	AL-130	17117	2018/10/04
Pre amplifier (30M-1G)	EMC INSTRUMENT	EMC9135	980334	2018/05/03
Microwave Preamplifier (1G-18G)	EMC INSTRUMENT	EMC05184 5	980108&AT -18001	2018/10/23
Pre amplifier (18G~26G)	MITEQ	JS4-180026 00-30-5A	808329	2018/08/09
EMI Test Receiver	R&S	ESVS30 (20M-1000 MHz)	826006/002	2018/11/28
RF Cable (open site)	EMCI	N male on end of both sides (EMI4)	30m	2018/10/19
RF CABLE (1~26G)	HARBOUT INDUSTRIES	LL142MI(4 M+4M)	NA	2018/04/17
RF CABLE (1~26G)	HARBOUT INDUSTRIES	LL142MI(7 M)	NA	2018/08/09
Spectrum (9K7GHz)	R&S	FSP7	830180/006	2018/04/14
Spectrum (9K40GHz)	AGILENT	8564EC	4046A0032	2019/03/01
e3	AUDIX	N/A	N/A	N/A
SINGAL GENTERATOR (100k-1GHz)	HP	8648A	3619U0042 6	N/A
Power Meter	ANRITSU	ML2487	6K00001574	2018/08/09

*CALIBRATION INTERVAL OF INSTRUMENTS LISTED ABOVE IS ONE YEAR



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5. ANTENNA REQUIREMENTS

5.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.2 ANTENNA CONSTRUCTION AND DIRECTIONAL GAIN

802.11b/g/n:		
Antenna Type	:	PCB Antenna
Antenna Gain	:	3 dBi



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6. TEST OF CONDUCTED EMISSION

6.1 TEST LIMIT

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2013 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB µ V)
0.15 - 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 - 30.0	60	50

^{*}Decreases with the logarithm of the frequency.

6.2 TEST PROCEDURES

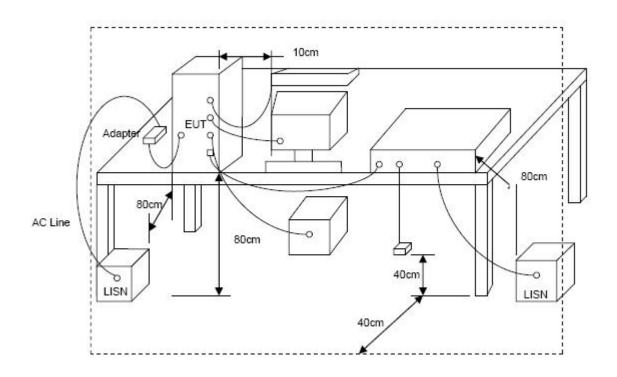
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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6.3 TYPICAL TEST SETUP





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6.4 TEST RESULT AND DATA

M/N :		MK100			Tes	t Voltag	ge:	A	AC 120V/60Hz
Test D	Date:	March 2	3, 2018		Pha	se:		I	_1
Tempo	erature:	20℃			Rel	ative H	umidity:	5	4%
Pressu	ıre:	101.0KF	Pa		Tes	t by:		E	Bing
Test N	Mode:	802.11b	Low chan	nnel		-			
	80.0 dBuV								
	40	Mon	mm		My	×			Conduction(QP) Conduction(AVG)
	0.0			A STANDARD OF THE STANDARD OF	Jan Jan	Venny	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7	WWW.MMMM peak Www.mavg
	0.150		0.5	and the second	(MHz)	Vinn	5	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	30.000
No.		Factor (dB)		Level (dBuV)	(MHz) Limit (dBuV)	Margin (dB)	5 Detector	P/F	
No. 1	0.150 Frequency	Factor	0.5 Reading	Level	Limit	Margin (dB) -16.40	Detector	P/F P	30.000
1 2	0.150 Frequency (MHz) 0.1500 0.1500	Factor (dB)	0.5 Reading (dBuV) 40.00 28.26	Level (dBuV)	Limit (dBuV) 66.00 56.00	Margin (dB) -16.40 -18.14	Detector QP AVG	P P	30.000
1	0.150 Frequency (MHz) 0.1500 0.1500 0.2531	Factor (dB) 9.60	0.5 Reading (dBuV) 40.00 28.26 44.20	Level (dBuV) 49.60	Limit (dBuV) 66.00	Margin (dB) -16.40 -18.14 -7.85	Detector QP AVG QP	P P	30.000
1 2	0.150 Frequency (MHz) 0.1500 0.1500	Factor (dB) 9.60 9.60	0.5 Reading (dBuV) 40.00 28.26	Level (dBuV) 49.60 37.86	Limit (dBuV) 66.00 56.00	Margin (dB) -16.40 -18.14	Detector QP AVG	P P	30.000
1 2 3	0.150 Frequency (MHz) 0.1500 0.1500 0.2531	Factor (dB) 9.60 9.60 9.60	0.5 Reading (dBuV) 40.00 28.26 44.20	Level (dBuV) 49.60 37.86 53.80	Limit (dBuV) 66.00 56.00 61.65	Margin (dB) -16.40 -18.14 -7.85	Detector QP AVG QP	P P	30.000
1 2 3 4	0.150 Frequency (MHz) 0.1500 0.1500 0.2531 0.2531	Factor (dB) 9.60 9.60 9.60 9.60	0.5 Reading (dBuV) 40.00 28.26 44.20 35.42	Level (dBuV) 49.60 37.86 53.80 45.02	Limit (dBuV) 66.00 56.00 61.65 51.65	Margin (dB) -16.40 -18.14 -7.85 -6.63	QP AVG QP AVG	P P P	30.000
1 2 3 4 5	0.150 Frequency (MHz) 0.1500 0.1500 0.2531 0.2531 0.3765	Factor (dB) 9.60 9.60 9.60 9.60 9.61	0.5 Reading (dBuV) 40.00 28.26 44.20 35.42 39.75	Level (dBuV) 49.60 37.86 53.80 45.02 49.36	Limit (dBuV) 66.00 56.00 61.65 51.65 58.36	Margin (dB) -16.40 -18.14 -7.85 -6.63 -9.00	QP AVG QP AVG QP AVG	P P P	30.000
1 2 3 4 5	0.150 Frequency (MHz) 0.1500 0.1500 0.2531 0.2531 0.3765 0.3765	Factor (dB) 9.60 9.60 9.60 9.61 9.61	0.5 Reading (dBuV) 40.00 28.26 44.20 35.42 39.75 34.78	Level (dBuV) 49.60 37.86 53.80 45.02 49.36 44.39	Limit (dBuV) 66.00 56.00 61.65 51.65 58.36 48.36	Margin (dB) -16.40 -18.14 -7.85 -6.63 -9.00 -3.97	QP AVG QP AVG QP AVG QP AVG	P P P P	30.000
1 2 3 4 5 6	0.150 Frequency (MHz) 0.1500 0.1500 0.2531 0.2531 0.3765 0.3765 0.5512	Factor (dB) 9.60 9.60 9.60 9.61 9.61	0.5 Reading (dBuV) 40.00 28.26 44.20 35.42 39.75 34.78 37.89	Level (dBuV) 49.60 37.86 53.80 45.02 49.36 44.39 47.50	Limit (dBuV) 66.00 56.00 61.65 51.65 58.36 48.36 56.00	Margin (dB) -16.40 -18.14 -7.85 -6.63 -9.00 -3.97 -8.50	QP AVG QP AVG QP AVG QP AVG AVG	P P P P P	30.000
1 2 3 4 5 6 7	0.150 Frequency (MHz) 0.1500 0.1500 0.2531 0.2531 0.3765 0.3765 0.5512 0.5512	Factor (dB) 9.60 9.60 9.60 9.61 9.61 9.61	0.5 Reading (dBuV) 40.00 28.26 44.20 35.42 39.75 34.78 37.89 27.05	Level (dBuV) 49.60 37.86 53.80 45.02 49.36 44.39 47.50 36.66	Limit (dBuV) 66.00 56.00 61.65 51.65 58.36 48.36 56.00 46.00	Margin (dB) -16.40 -18.14 -7.85 -6.63 -9.00 -3.97 -8.50 -9.34	QP AVG QP AVG QP AVG QP AVG QP AVG QP AVG	P P P P P	30.000
1 2 3 4 5 6 7 8	0.150 Frequency (MHz) 0.1500 0.1500 0.2531 0.2531 0.3765 0.3765 0.5512 0.5512 0.8874	Factor (dB) 9.60 9.60 9.60 9.61 9.61 9.61 9.63	0.5 Reading (dBuV) 40.00 28.26 44.20 35.42 39.75 34.78 37.89 27.05 31.57	Level (dBuV) 49.60 37.86 53.80 45.02 49.36 44.39 47.50 36.66 41.20	Limit (dBuV) 66.00 56.00 61.65 51.65 58.36 48.36 56.00 46.00 56.00	Margin (dB) -16.40 -18.14 -7.85 -6.63 -9.00 -3.97 -8.50 -9.34 -14.80	QP AVG QP AVG QP AVG QP AVG QP AVG QP AVG	P P P P P P	30.000



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		MK100			Test	t Voltag	ge:	A	C 120V/60Hz		
Test D	Date :	March 2	3, 2018		Pha	Phase:			Neutral		
Temp	erature:	20°C			Rela	Relative Humidity:		54	54%		
Pressu	ıre:	101.0KP	Pa Pa		Test	t by:		В	ing		
Test N	Mode:	802.11b	Low chan	nel							
	80.0 dBuV										
	*								Conduction(QP)		
		-	X						Conduction(AVG)		
	40	mWW	nvwn	money of the	my	J.my	VM	MM	MMMM peak		
				(pu		V	VV	V	V V V V V V AVG		
	0.0		0.5	(v	(MHz)	V	5	V	30.000		
No.		Factor (dB)	0.5 Reading (dBuV)	Level (dBuV)	(MHz) Limit (dBuV)	Margin (dB)	873	P/F	100 mm 200 mm		
No. 1	0.150 Frequency		Reading		Limit			P/F P	30.000		
	0.150 Frequency (MHz)	(dB)	Reading (dBuV)	(dBuV)	Limit (dBuV)	(dB)	Detector		30.000		
1	0.150 Frequency (MHz) 0.1573	(dB) 9.62	Reading (dBuV) 48.98	(dBuV) 58.60	Limit (dBuV) 65.61	(dB) -7.01	Detector	Р	30.000		
1 2	0.150 Frequency (MHz) 0.1573 0.1573	(dB) 9.62 9.62	Reading (dBuV) 48.98 29.90	(dBuV) 58.60 39.52	Limit (dBuV) 65.61 55.61	(dB) -7.01 -16.09	Detector QP AVG	P P	30.000		
1 2 3	0.150 Frequency (MHz) 0.1573 0.1573 0.3162	(dB) 9.62 9.62 9.62	Reading (dBuV) 48.98 29.90 41.98	(dBuV) 58.60 39.52 51.60	Limit (dBuV) 65.61 55.61 59.81	(dB) -7.01 -16.09 -8.21	QP AVG QP	P P	30.000		
1 2 3 4	0.150 Frequency (MHz) 0.1573 0.1573 0.3162 0.3162	(dB) 9.62 9.62 9.62 9.62	Reading (dBuV) 48.98 29.90 41.98 35.84	(dBuV) 58.60 39.52 51.60 45.46	Limit (dBuV) 65.61 55.61 59.81 49.81	(dB) -7.01 -16.09 -8.21 -4.35	QP AVG QP AVG	P P P	30.000		
1 2 3 4 5	0.150 Frequency (MHz) 0.1573 0.1573 0.3162 0.3162 0.4933	(dB) 9.62 9.62 9.62 9.62 9.62	Reading (dBuV) 48.98 29.90 41.98 35.84 35.58	(dBuV) 58.60 39.52 51.60 45.46 45.20	Limit (dBuV) 65.61 55.61 59.81 49.81 56.11	(dB) -7.01 -16.09 -8.21 -4.35 -10.91	QP AVG QP AVG QP AVG QP AVG	P P P	30.000		
1 2 3 4 5	0.150 Frequency (MHz) 0.1573 0.1573 0.3162 0.3162 0.4933 0.4933	(dB) 9.62 9.62 9.62 9.62 9.62 9.62	Reading (dBuV) 48.98 29.90 41.98 35.84 35.58 28.34	(dBuV) 58.60 39.52 51.60 45.46 45.20 37.96	Limit (dBuV) 65.61 55.61 59.81 49.81 56.11 46.11	(dB) -7.01 -16.09 -8.21 -4.35 -10.91 -8.15	QP AVG QP AVG QP AVG QP	P P P P	30.000		
1 2 3 4 5 6 7	0.150 Frequency (MHz) 0.1573 0.1573 0.3162 0.3162 0.4933 0.4933 0.6461	(dB) 9.62 9.62 9.62 9.62 9.62 9.62 9.63	Reading (dBuV) 48.98 29.90 41.98 35.84 35.58 28.34 34.97	(dBuV) 58.60 39.52 51.60 45.46 45.20 37.96 44.60	Limit (dBuV) 65.61 55.61 59.81 49.81 56.11 46.11 56.00	(dB) -7.01 -16.09 -8.21 -4.35 -10.91 -8.15 -11.40	QP AVG QP AVG QP AVG QP AVG	P P P P P	30.000		
1 2 3 4 5 6 7	0.150 Frequency (MHz) 0.1573 0.1573 0.3162 0.3162 0.4933 0.4933 0.6461 0.6461	(dB) 9.62 9.62 9.62 9.62 9.62 9.62 9.63 9.63	Reading (dBuV) 48.98 29.90 41.98 35.84 35.58 28.34 34.97 27.89	(dBuV) 58.60 39.52 51.60 45.46 45.20 37.96 44.60 37.52	Limit (dBuV) 65.61 55.61 59.81 49.81 56.11 46.11 56.00 46.00	(dB) -7.01 -16.09 -8.21 -4.35 -10.91 -8.15 -11.40 -8.48	QP AVG QP AVG QP AVG QP AVG QP	P P P P P	30.000		
1 2 3 4 5 6 7 8	0.150 Frequency (MHz) 0.1573 0.1573 0.3162 0.3162 0.4933 0.4933 0.6461 0.6461 0.9608	(dB) 9.62 9.62 9.62 9.62 9.62 9.62 9.63 9.63 9.65	Reading (dBuV) 48.98 29.90 41.98 35.84 35.58 28.34 34.97 27.89 31.55	(dBuV) 58.60 39.52 51.60 45.46 45.20 37.96 44.60 37.52 41.20	Limit (dBuV) 65.61 55.61 59.81 49.81 56.11 46.11 56.00 46.00 56.00	(dB) -7.01 -16.09 -8.21 -4.35 -10.91 -8.15 -11.40 -8.48	QP AVG QP AVG QP AVG QP AVG QP AVG	P P P P P P P	30.000		



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7. TEST OF RADIATED EMISSION

7.1 TEST LIMIT

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (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

7.2 TEST PROCEDURES

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported,



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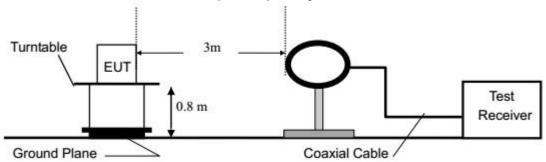
FCC ID.: 2AO94-MK100

otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the guasi-peak method and reported.

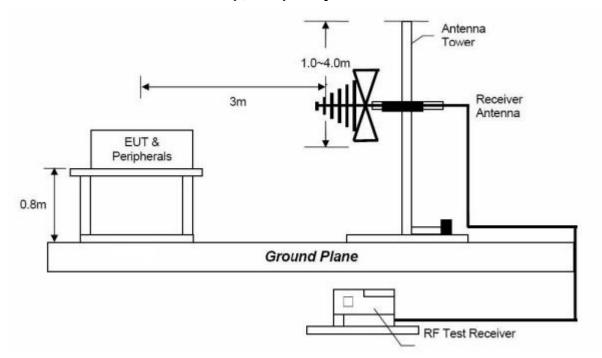
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower thanaverage limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

7.3 TYPICAL TEST SETUP

Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency 30MHz-1000MHz

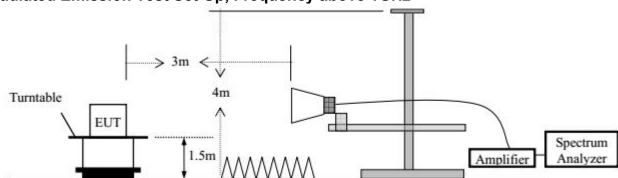




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Radiated Emission Test Set-Up, Frequency above 1GHz



7.4 TEST RESULT AND DATA (9KHZ ~ 30MHZ)

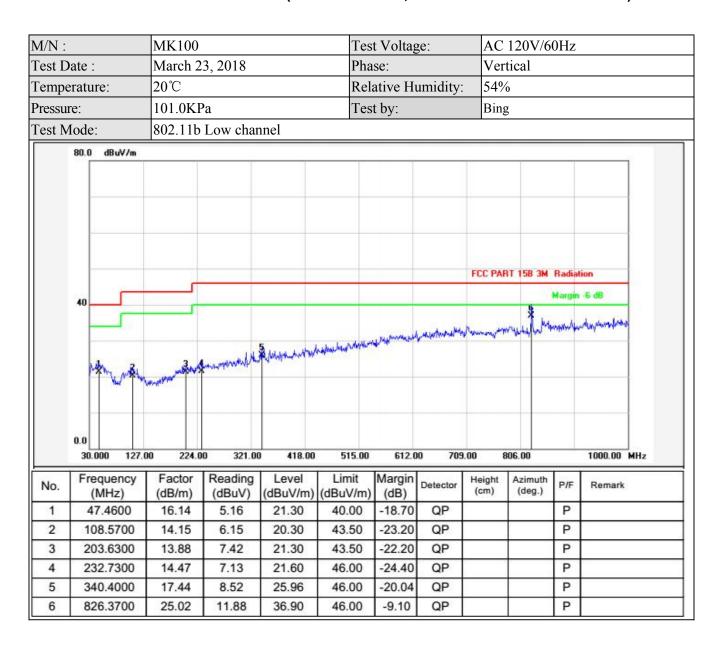
The 9kHz - 30MHz spurious emission is under limit 20dB more.



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7.5 TEST RESULT AND DATA (30MHZ ~ 1GHZ, WORST EMISSIONS FOUND)





826.3700

25.02

11.18

36.20

46.00

-9.80

QP

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Р

<i>M</i> /N:		MK100			Tes	Test Voltage:		AC	AC 120V/60Hz		
Cest D	Date:	March 2	3, 2018		Pha	Phase:		Но	Horizontal		
empe	erature:	20℃			Rel	ative H	umidity:	54%	, 0		
ressu	re:	101.0KP	'a		Tes	t by:		Bing	3		
est N	Mode:	802.11b	Low char	nnel							
	80.0 dBuV/m										
	40			Alver walter to A	notes \$ week	aghter back health	wherever		8T 15B 3M		
No.	0.0 30.000 127.0 Frequency	0 224.00 Factor	321.00 Reading	418.00 Level	515.00 Limit	612.0		.00 E	Azimuth	P/F	1000.00 MHz
	(MHz)	(dB/m)	(dBuV)	1	(dBuV/m)		100000000000000000000000000000000000000	(cm)	(deg.)		
1	49.4000	16.12	5.18	21.30	40.00	-18.70	QP			Р	
- 20	107.6000	19.15	1.85	21.00	43.50	-22.50	QP			Р	
2						00.00	00		1	-	
- 20	205.5700	16.76	3.54	20.30	43.50	-23.20	QP			Р	
2		16.76 17.54	3.54 6.96 7.49	20.30	43.50 46.00	-23.20 -21.50 -18.70	QP			P	



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7.6 TEST RESULT AND DATA (ABOVE 1GHZ)

M/N :		MK100			Test V	/oltage:	A	C 120V/	60Hz		
Test Date	:	March 23	3, 2018		Phase	:	V	ertical			
Temperat	ure:	20°C			Relati	Relative Humidity:			54%		
Pressure:		101.0KP	a		Test b	y:	В	ing			
Test Mod	e:	802.11b	channel				•				
			Or	eration	Mode:80)2.11b (Low)				
Freq	Ant.Pol			<u>_</u>		Emission			it 3m	M	argin
(MHz)	(H/V)		uV)	(dB)	(dBu ^v			V/m)		(dB)	
		PK	ÁV		PK	ÁV	PK	ÁV	PK	AV	
4824	V	45.33	33.25	14.05	59.38	47.30	74.00	54.00	-14.62	-6.70	
7236	V	37.84	27.62	18.81	56.65	46.43	74.00	54.00	-17.35	-7.57	
4824	Н	46.25	31.98	14.05	60.30	46.03	74.00	54.00	-13.70	-7.97	
7236	Н	38.07	26.02	18.18	56.25	44.20	74.00	54.00	-17.75	-9.80	
			O	peration	Mode:8	02.11b(Mid)				
Freq	Ant.Pol	Readin	g Level	Factor	Emissio	Emission Level Limit 3m				argin	
(MHz)	(H/V)	(dB	uV)	(dB)	(dBu ^v	V/m)	(dBu	V/m)	(dB)		
		PK	AV		PK	AV	PK	AV	PK	AV	
4874	V	46.40	31.55	14.41	60.81	45.96	74.00	54.00	-13.19	-8.04	
7311	V	41.22	26.96	18.36	59.58	45.32	74.00	54.00	-14.42	-8.68	
4874	Н	45.26	32.06	14.41	59.67	46.47	74.00	54.00	-14.33	-7.53	
7311	Н	39.04	27.04	18.36	57.40	45.40	74.00	54.00	-16.60	-8.60	
			Op	peration	Mode:80)2.11b()	High)				
Freq	Ant.Pol	Readin	g Level	Factor	Emissio	n Level	Lim	it 3m	M	argin	
(MHz)	(H/V)		uV)	(dB)	(dBu ^v	V/m)	(dBu	V/m)	((dB)	
		PK	AV		PK	AV	PK	AV	PK	AV	
4924	V	45.59	32.32	14.76	60.35	47.08	74.00	54.00	-13.65	-6.92	
7386	V	38.27	26.63	18.55	56.82	45.18	74.00	54.00	-17.18	-8.82	
4924	Н	45.68	31.99	14.76	60.44	46.75	74.00	54.00	-13.56	-7.25	
7386	Н	38.77	26.56	18.55	57.32	45.11	74.00	54.00	-16.68	-8.89	



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7.7 RESTRICT BAND EMISSION MEASUREMENT DATA

M/N:		MK1	100			Test Vo	Test Voltage:			AC 120V/60Hz			
Test Date:		March 23, 2018				Phase:	Phase:			Vertical			
Temperature	e:	20℃	2			Relativ	e Humidi	ty:	54%				
Pressure:	ressure: 101.0KPa			Test by	:		Bing	;					
Test Mode:		802.	11b Lov	w channel		•							
Freq	Ant.Po	ol	Readin	g Level	Factor	Emission Level		L	Limit 3m		Margin		
(MHz)	(H/V))	(dB	uV)	(dB)	(dBuV/m)		(d	(dBuV/m)		(dB)		
			PK	AV		PK	AV	PK		AV	PK	AV	
2390.000	Н	3	33.97	18.24	12.56	46.53	30.80	74		54	-27.47	-23.20	
2390.000	V	3	38.43	21.14	12.56	50.99	33.70	74		54	-23.01	-20.30	
2483.500	Н	(30.03	17.53	12.67	45.70	30.20	74	-	54	-28.30	-23.80	
2483.500	V	3	38.64	23.53	12.67	51.31	36.20	74		54	-22.69	-17.80	



2310.000 2318.00

2326.00

2334.00

2342.00

2350.00

2358.00

2366.00

2374.00

WH Technology Corp.

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2390.00 MHz

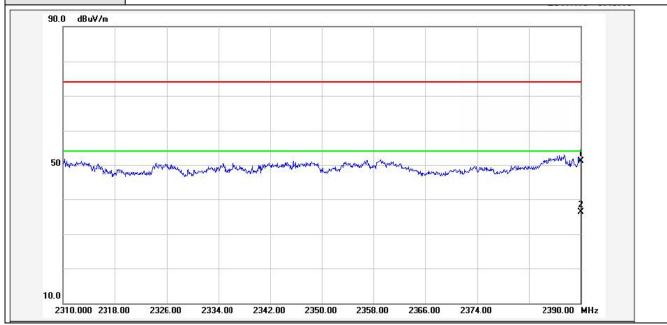
M/N:	MK100		Test Volta	ge:	AC 120V/60H	łz	
Test Date :	March 23, 201	March 23, 2018			Vertical		
Temperature:	Temperature: 20°C			lumidity:	54%		
Pressure:	101.0KPa		Test by:		Bing		
Test Mode:	802.11b Low	802.11b Low channel			•		
90.0 dBuV/m	901	180	900 800	1.90	201 201		
50 Myramanahana	and photom who processed	many house broken the many house the	- Marine	marana da	make manage was a few or	Nama Andrewski	

						*	
3							



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M/N:	MK100	Test Voltage:	AC 120V/60Hz
Test Date:	March 23, 2018	Phase:	Horizontal
Temperature:	20°C	Relative Humidity:	54%
Pressure:	101.0KPa	Test by:	Bing
Test Mode:	802.11b Low channel		





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M/N:	MK100	Test Voltage:	AC 120V/60Hz		
Test Date :	March 23, 2018	Phase:	Vertical		
emperature:	20°C	Relative Humidity:	54%		
ressure:	101.0KPa	Test by: Bing			
Test Mode:	802.11b Low channel				
90.0 dBuV/m					
50 hongelforen	many many many many many many many many	Maria de la companya	arran marina		
10.0					



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2500.00 MHz

FCC ID.: 2AO94-MK100

M/N:	MK100		Test Voltag	ge:	AC 120V/6	60Hz	
Test Date :	March 23, 20	018	Phase:		Horizonta	Horizontal	
Temperature:	20℃		Relative H	umidity:	54%		
Pressure:	101.0KPa		Test by:		Bing		
Test Mode:	802.11b Low	channel					
90.0 dBuV/m				24	37.0		
-							
1							
50 horas	May my for the man war war	a mark to make the man	much you have a more me	and the second	Manage of Control of the second	an warmen with	
			51 <u>1</u> 2				
3							

Note:

2483.000 2484.70

2486.40

2488 10

- 1. Emission level = Reading level + Correction factor
- 2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.

2489.80

2491.50

3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.

2493 20

2494 90

2496 60

- 4. Measurements above 1000 MHz, Peak detector setting:1 MHz RBW with 1 MHz VBW (Peak Detector).
- 5. Measurements above 1000 MHz, Average detector setting:1 MHz RBW with 10Hz VBW (RMS Detector).
- 6. Peak detector measurement data will represent the worst case results.
- 7. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.



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8. 6DB BANDWIDTH MEASUREMENT DATA

8.1 TEST LIMIT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz. Test Procedures

8.2 TEST PROCEDURES

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100KHz of the emission bandwidth and VBW ≥ 3x RBW.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

8.3 TEST SETUP LAYOUT



8.4 TEST RESULT AND DATA

PASS

Please refer to following table.



Date of Issue: 17 April 2018 Report No. : WH-MPE-R18010706 FCC ID. : 2AO94-MK100

Temperature :	22 ℃	Humidity:	56%	Pressure:	101.45KPa				
Test By:	,	Bing	Test Date :	8					
Frequency MHz	2	Data Rate Mbps	6dB Bandwidt	Limit					
IEE 802.11b Mode (CCK)									
Low Channel:	2412	1	9.	038	>500KHz				
Middle Channel	l: 2437	1	8.	>500KHz					
High Channel:	2462	1	8.	>500KHz					
	IE	E 802.11g Mo	de (OFDM)						
Low Channel:	2412	6	16	>500KHz					
Middle Channel	: 2437	6	16	>500KHz					
High Channel:	2462	6	16	3.34	>500KHz				
	IEE 80	02.11n(HT20	Mode (OFDN	M)					
Low Channel:	2412	6.5	16.58		>500KHz				
Middle Channe	l: 2437	6.5	16.66		>500KHz				
High Channel:	2462	6.5	16	>500KHz					



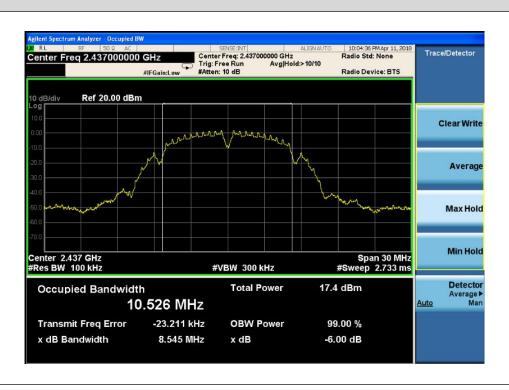
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802.11b Low Channel



802.11b Middle Channel





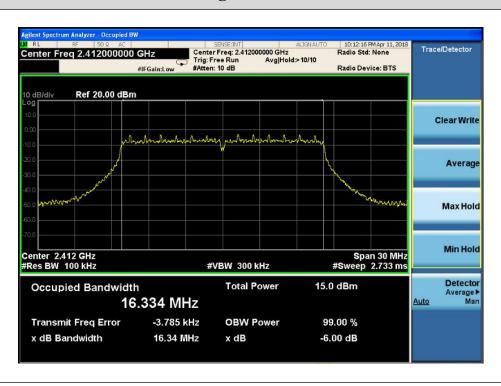
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802.11b High Channel



802.11g Low Channel

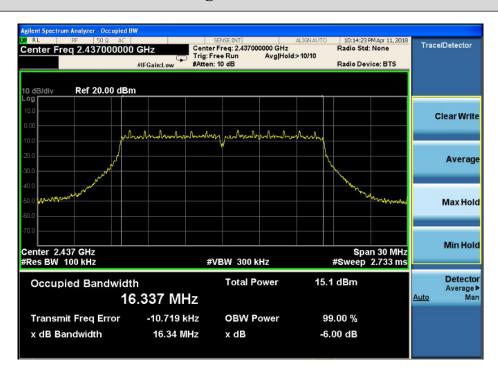




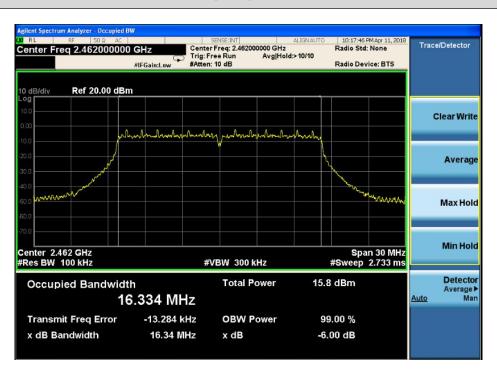
Date of Issue: 17 April 2018 Report No.: WH-MPE-R18010706

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802.11g Middle Channel



802.11g High Channel

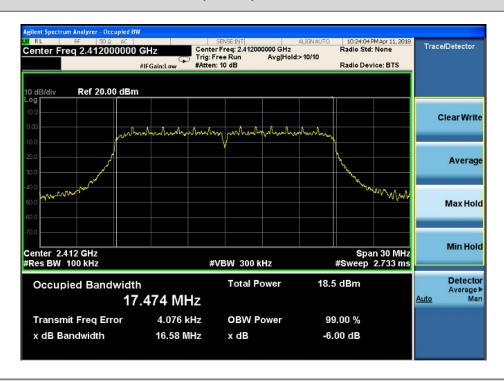




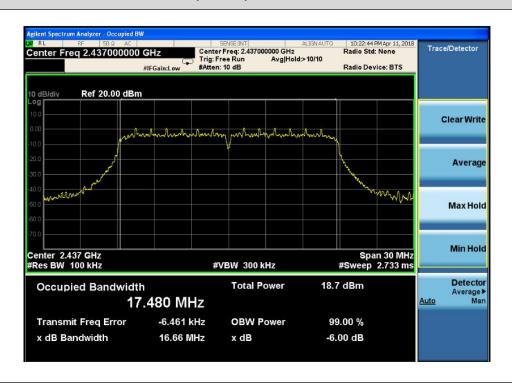
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802.11n(HT20) Low Channel

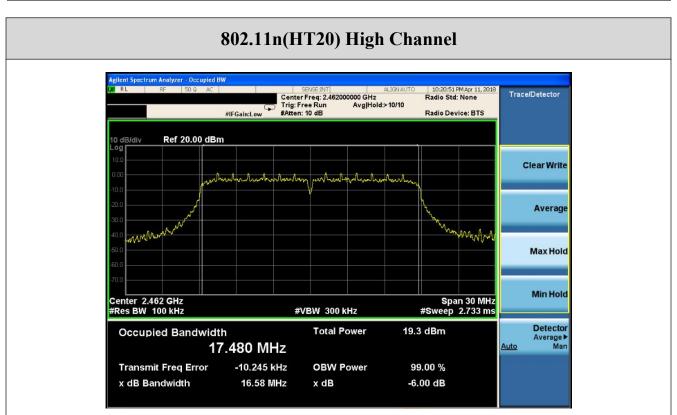


802.11n(HT20) Middle Channel





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9. MAXIMUM PEAK AND AVERAGE OUTPUT POWER

9.1 TEST LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

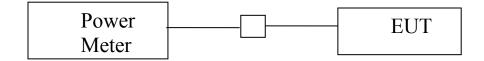
9.2 TEST PROCEDURES

The transmitter output (antenna port) was connected to the power meter. According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power, 9.1.2 the maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

According to KDB558074 D01 DTS Measurement Guidance Section 9.2 Maximum average conducted output power, 9.2.3.1 Method AVGPM (Measurement using an RF average power meter)

- (a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.
- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.
- (c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (d) Adjust the measurement in dBm by adding 10log (1/x), where x is the duty cycle to the measurement result.

9.3 TEST SETUP LAYOUT



9.4 TEST RESULT AND DATA

PASS

Please refer to following table.



Date of Issue: 17 April 2018 Report No. : WH-MPE-R18010706 FCC ID. : 2AO94-MK100

Temperature :	22 ℃	Humidity: 56% Pressure: 1			101.45KPa					
Test By:		Bing	Test Date :	March 25, 201	8					
	uency Hz	Data Rate Mbps		Peak Output Power dBm						
IEE 802.11b Mode (CCK, Antenna Gain=3.0dBi)										
Low Channel:	2412	1	22	2.09	30					
Middle Channel	: 2437	1	2	30						
High Channel:	2462	1	22	30						
	IEE 802.11g l	Mode (OFDM	I, Antenna Gair	n=3.0dBi)						
Low Channel:	2412	6	22	30						
Middle Channel	: 2437	6	22	30						
High Channel:	2462	6	22	2.24	30					
II	EE 802.11n(HT2	20) Mode (C	FDM, Antenna	Gain=3.0dBi)						
Low Channel:	2412	6.5	2	1.27	30					
Middle Channel	: 2437	6.5	2	30						
High Channel:	2462	6.5	2	30						



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10. POWER SPECTRAL DENSITY

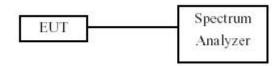
10.1 TEST LIMIT

The Maximum of Power Spectral Density Measurement is 8dBm

10.2 TEST PROCEDURES

- g. The transmitter output was connected to spectrum analyzer.
- h. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- i. The power spectral density was measured and recorded.

10.3 TEST SETUP LAYOUT



10.4 TEST RESULT AND DATA

PASS

Please refer to following table.



Date of Issue: 17 April 2018 Report No. : WH-MPE-R18010706 FCC ID. : 2AO94-MK100

Temperature :	22 °C	Humidity:	56%	Pressure:	101.45KPa		
Test By:		Bing	Test Date :	March 25, 201	8		
Frequency MHz		Data Rate Mbps	PSD dBm/3kHz		Limit dBm/3kHz		
IEE 802.11b Mode (CCK)							
Low Channel:	2412	1	-6.673		8		
Middle Channel	: 2437	1	-6.460		8		
High Channel: 2462		1	-6.604		8		
IEE 802.11g Mode (OFDM)							
Low Channel:	2412	6	-10	.955	8		
Middle Channel: 2437		6	-11.715		8		
High Channel: 2462		6	-12.691		8		
IEE 802.11n(HT20 Mode(OFDM)							
Low Channel:	2412	6.5	-14	.609	8		
Middle Channel: 2437		6.5	-13	.931	8		
High Channel:	2462	6.5	-13	.902	8		



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802.11b Low Channel



802.11b Middle Channel





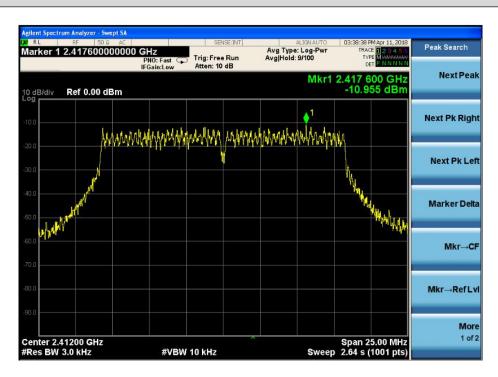
Date of Issue: 17 April 2018 Report No.: WH-MPE-R18010706

FCC ID.: 2AO94-MK100

802.11b High Channel



802.11g Low Channel

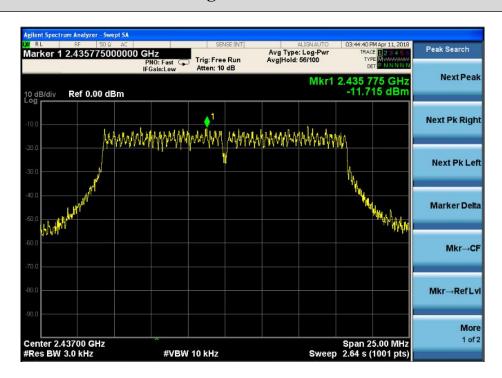




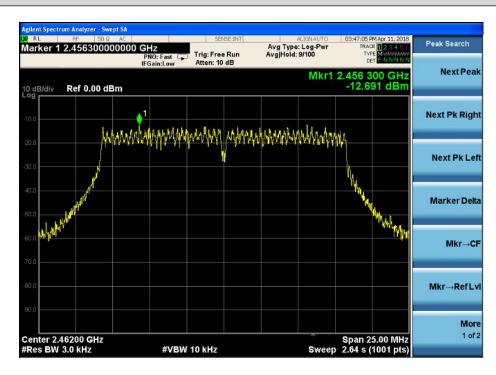
Date of Issue: 17 April 2018 Report No.: WH-MPE-R18010706

FCC ID.: 2AO94-MK100

802.11g Middle Channel



802.11g High Channel

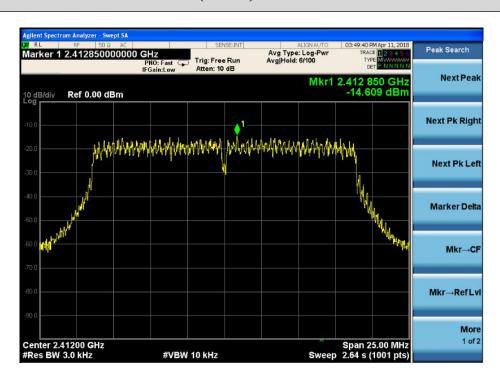




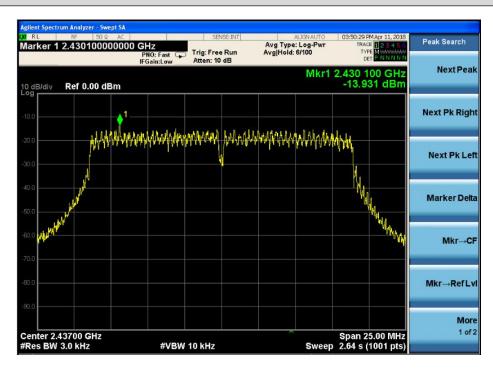
Date of Issue: 17 April 2018 Report No.: WH-MPE-R18010706

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802.11n(HT20) Low Channel



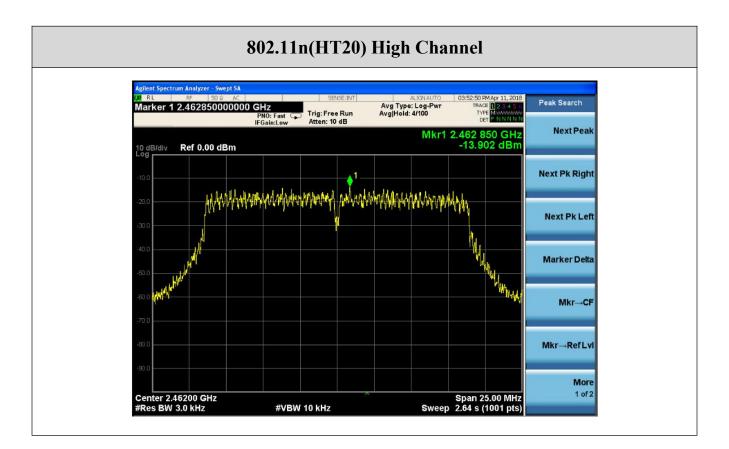
802.11n(HT20) Middle Channel





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11. BAND EDGES MEASUREMENT

11.1 TEST LIMIT

Below - 20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

11.2 TEST PROCEDURE

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

11.3 TEST SETUP LAYOUT



11.4 TEST RESULT AND DATA

PASS

Please refer to following table.



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802.11g Low Channel



802.11g High Channel





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802.11n(HT20) Low Channel



802.11n(HT20) High Channel





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12. RESTRICTED BANDS OF OPERATION

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 - 410.0	4.500 - 5.150
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 - 1240.0	7.250 - 7.750
4.12500 - 4.12800	25.50000 - 25.67000	1300.0 - 1427.0	8.025 - 8.500
4.17725 - 4.17775	37.50000 - 38.25000	1435.0 - 1626.5	9.000 - 9.200
4.20725 - 4.20775	73.00000 - 74.60000	1645.5 - 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 - 75.20000	1660.0 - 1710.0	10.600 - 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 - 13.400
6.31175 - 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 - 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 - 2390.0	15.350 - 16.200
8.36200 - 8.36600	156.52475 - 156.52525	2483.5 - 2500.0	17.700 - 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 - 23.120
8.41425 - 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 - 24.000
12.29000 - 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 - 31.800
12.51975 - 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 - 36.500
12.57675 - 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 - 13.41000			

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

12.1 LABELING REQUIREMENT

The device shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

--END---