



中国认可
国际互认
检测
TESTING
CNAS L0310



FCC

RF Test Report

Product Name: HUAWEI MediaPad M5

Model Number: SHT-W09

Report No.: SYBH(Z-RF)001122017-2003

FCC ID: QISSHT-W09

Reliability Laboratory of Huawei Technologies Co., Ltd.

(Global Compliance and Testing Center of Huawei Technologies Co., Ltd)

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Notice

1. The laboratory has passed the accreditation by China National Accreditation Service for Conformity Assessment (CNAS). The accreditation number is L0310.
2. The laboratory has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01 .
3. The laboratory has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Certification rules. The Designation Number is CN1173, and the Test Firm Registration Number is 294140.
4. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 6369A-1.
5. The laboratory (Reliability Lab of Huawei Technologies Co., Ltd) is also named “Global Compliance and Testing Center of Huawei Technologies Co., Ltd”, the both names have coexisted since 2009.
6. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
7. The test report is invalid if there is any evidence of erasure and/or falsification.
8. The test report is only valid for the test samples.
9. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



Applicant: Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt Sample: 2017-11-24
Start Date of Test: 2017-11-24
End Date of Test: 2018-01-11

Test Result: Pass

Approved by Senior Engineer:	2018-01-12	Roger zhang	<i>Roger Zhang</i>
	Date	Name	Signature

Prepared by:	2018-01-12	zhoulingbo	<i>zhou ling bo</i>
	Date	Name	Signature

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1 General Information

1.1 Applied Standard

Applied Rules:	47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart C
Test Method:	FCC KDB 558074 D01 DTS Meas Guidance v04 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices.

1.2 Test Location

Test Location 1:	Reliability Laboratory of Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3 Test Environment Condition

Ambient Temperature:	19.5to 25 °C
Ambient Relative Humidity:	40 to 55 %
Atmospheric Pressure:	Not applicable

2 Test Summary

Test Item	FCC Part No.	Requirements	Test Result	Verdict
DTS (6 dB) Bandwidth	15.247(a)(2)	≥ 500 kHz.	Appendix A	Pass
Occupied Bandwidth	---	No limit.	Appendix B	Pass
Duty Cycle	KDB 558074 D01 (6.0)	No limit.	Appendix C	Pass
Maximum Conducted Average Output Power	15.247(b)(3)	For directional gain: < 30 dBm – (G[dBi] – 6 [dB]), Average; Otherwise: < 30 dBm, Average;	Appendix D	Pass
Maximum Power Spectral Density Level	15.247(e)	For directional gain: < 8 dBm/3 kHz – (G[dBi] – 6 [dB]), Average. Otherwise: < 8 dBm/3 kHz, Average.	Appendix E	Pass
Band Edges Compliance	15.247(d)	< -30 dBm/100 kHz if total average power ≤ power limit.	Appendix F	Pass
Unwanted Emissions into Non-Restricted Frequency Bands			Appendix G	Pass
NOTE : According to KDB 558074 D01, antenna-port conducted measurements are acceptable as an alternative to radiated measurements for demonstrating compliance to the limits in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case emissions will also be required.				

3 Description of the Equipment under Test (EUT)

3.1 General Description

HUAWEI SHT-W09 is a smart tablet product developed by HUAWEI. It's based on the Google Android 8.0 Operating System, support Wi-Fi, Bluetooth, USB connection.

Note: Only Bluetooth BLE test data included in this report.

3.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

3.2.1 Board

Board		
Description	Hardware Version	Software Version
Main Board	SH1SHUBTLM	SXX-W09A 8.0.1.1(C331)

3.2.2 Sub- Assembly

Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
Adapter	HW-059200EHQ	Huawei Technologies Co., Ltd.	Input Voltage: 100-240V 50/60Hz 0.5A Output Voltage: 5V  2A or 9V  2A
Adapter	HW-059200BHQ	Huawei Technologies Co., Ltd.	Input Voltage: 100-240V 50/60Hz 0.5A Output Voltage: 5V  2A or 9V  2A
Adapter	HW-059200AHQ	Huawei Technologies Co., Ltd.	Input Voltage: 100-240V 50/60Hz 0.5A Output Voltage: 5V  2A or 9V  2A
Adapter	HW-059200UHQ	Huawei Technologies Co., Ltd.	Input Voltage: 100-240V 50/60Hz 0.5A Output Voltage: 5V  2A or 9V  2A
Battery	HB2899C0ECW	Huawei Technologies Co., Ltd.	Rated capacity: 4980mAh Nominal Voltage:  +3.82V Charging limited Voltage:  4.4V

3.3 Technical Description

Characteristics	Description	
TX/RX Operating Range	2400-2483.5 MHz band	$f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 0 to 39.
Modulation Type	Digital	GFSK,
Emission Designator	GFSK for BT 4.2: 710KFXD	
Bluetooth Power Class	Class 1	

4 General Test Conditions / Configurations

4.1 EUT Configurations

4.1.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, - All TX tests are performed at all TX antenna ports of the EUT, and - All RX tests are performed at all RX antenna ports of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

4.1.2 Customized Configurations

# EUT Conf.	Signal Description	Operating Frequency	Duty cycle
TM1_Ch0	GFSK for BT 4.2 modulation, package type DH5, hopping off.	Ch No. 0 / 2402 MHz	60.3%
TM1_Ch19	GFSK for BT 4.2 modulation, package type DH5, hopping off.	Ch No. 19 / 2440 MHz	60.3%
TM1_Ch39	GFSK for BT 4.2 modulation, package type DH5, hopping off.	Ch No. 39 / 2480 MHz	60.3%

4.2 Test Environments

NOTE: The values used in the test report may be stringent than the declared.

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	Ambient	3.82 VDC	Ambient

4.3 Test Conditions

Test Case	Test Conditions	
	Configuration	Description
6dB Emission Bandwidth (EBW)	Meas. Method	FCC KDB 558074 D01 §8.1 Option 2.
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	TM1_Ch0, TM1_Ch19, TM1_Ch39.
Occupied Bandwidth	Meas. Method	FCC KDB 558074 D01 §8.2 Option 2.
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	TM1_Ch0, TM1_Ch19, TM1_Ch39.
Maximum Conducted Average Output Power	Meas. Method	FCC KDB 558074 D01 §9.2 .2. 4
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	TM1_Ch0, TM1_Ch19, TM1_Ch39.
Maximum Power Spectral Density Level	Meas. Method	FCC KDB 558074 D01§10.1
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	TM1_Ch0, TM1_Ch19, TM1_Ch39.
Band edge spurious emission	Meas. Method	FCC KDB 558074 D01§13.0.
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	TM1_Ch0, TM1_Ch39.
Unwanted Emissions into Non-Restricted Frequency Bands	Meas. Method	FCC KDB 558074 D01§11.0
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	TM1_Ch0, TM1_Ch19, TM1_Ch39.

5 Main Test Instruments

Main Test Equipments					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal- Due
Power supply	KEITHLEY	2303	000500E	2017/5/31	2018/5/30
Wireless Communication Test set	Agilent	N4010A	MY49081592	2017/7/31	2018/7/30
Universal Radio Communication Tester	R & S	CMW500	126854	2017/10/19	2018/10/18
Signal Analyzer	R&S	FSQ31	200021	2017/7/31	2018/7/30
Spectrum Analyzer	Agilent	N9030A	MY49431698	2017/7/31	2018/7/30
Temperature Chamber	ESPEC	MW3030	06114003	2017/2/22	2018/2/21
Signal generator	Agilent	E8257D	MY49281095	2017/7/31	2018/7/30
Vector Signal Generator	R&S	SMU200A	104162	2017/7/31	2018/7/30

6 Appendixes

Appendix No.	Description
SYBH(Z-RF)001122017-2003-A	Appendix for Bluetooth BLE

END