



FCC&ISED RF Test Report

Product Name: HUAWEI MateBook

Model Number: MACHR-W29/MACHR-W19

Report No.: SYBH(Z-RF)20190123011002-2004

FCC ID:QISMACHR-WX9 IC:6369A-MACHRWX9

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DATE	2019-03-18	2019-03-18		

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MODIFICATION RECORD

No.	Report No	Modification Description
1	SYBH(Z-RF)201901230220	First release.
	02-2004	

DECLARATION

Туре	Description				
Multiple	The present report applies to single model.				
Models					
Applications	performed with the model MACHR-W29.				
	These models utilize the similar radio design, shielding, interface, physical layout and so on. The differences and modifications between these models are declared by the applicant and showed in General Description All others between these models are identical.				
	The present report only presents the worst test case of all modes, see relevant test				
	results for detailed.				



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2 General Information

2.1 Test standard/s

	47 CFR FCC Part 2, Subpart J
Applied Pulse :	47 CFR FCC Part 15, Subpart C
Applied Rules :	ISED RSS-Gen (Issue 5, April 2018)
	ISED RSS-247 (Issue 2,February 2017)
	FCC KDB 558074 D01 DTS Meas Guidance v05r01
Test Method :	ANSI C63.10-2013, American National Standard for Testing Unlicensed
	Wireless Devices.

2.2 Test Environment

Temperature :	TN	15 to 30	°C dı	uring room temperature tests
Ambient Relative Humidity:	20 to	85 %		
Atmospheric Pressure:	Not app	licable		
	VL	7.4	V	
Power supply :	VN	8.0	V	DC by Battery
	VH	8.7	V	

NOTE 1: 1) VN= nominal voltage, VL= low extreme test voltage, VH= High extreme test voltage;

TN= normal temperature, TL= low extreme test temperature, TH= High extreme test temperature.

NOTE 2: The values used in the test report may be stringent than the declared.



2.3 Test Laboratories

Test Location 1 :	RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD.
Address of Test Location 1:	No.2, New City Avenue, Songshan Lake Sci. & Tech. Industry Park, Dongguan, 523808, P.R.C

2.4 Applicant and Manufacturer

Company Name : HUAWEI TECHNOLOGIES CO., LTD		
Addross:	Administration Building, Headquarters of Huawei Technologies Co., Ltd.,	
Address :	Bantian, Longgang District, Shenzhen, 518129, P.R.C	

2.5 Application details

Date of Receipt Sample:	2019-01-28
Start of test:	2019-01-29
End of test:	2019-03-18



3 Test Summary

Test Item	FCC Rule No.	ISED Rule No.	Requirements	Test Result	Verdict	Testing location
DTS (6 dB) Bandwidth	15.247(a)(2)	RSS-247, 5.2	≥ 500 kHz.	Appendix A	Pass	Test Location 1
Occupied Bandwidth		RSS-247, 5.2 RSS-Gen, 6.7		Appendix B	Pass	Test Location
Duty Cycle	KDB 558074 D01 (6.0)	KDB 558074 D01 (6.0)	No limit.	Appendix C	Pass	Test Location 1
Maximum Conducted Average Output Power	15.247(b)(3)	RSS-247, 5.4	FCC: For directional gain: Conducted < 30 dBm – (G[dBi] – 6 [dB]); Otherwise: Conducted < 30 dBm, ISED: Conducted < 30 dBm. EIRP< 36 dBm,	Appendix D	Pass	Test Location 1
Maximum Power Spectral Density Level	15.247(e)	RSS-247, 5.2	Conducted < 8 dBm/3 kHz.	Appendix E	Pass	Test Location 1
Band Edges Compliance	45 247/4\	DCC 247 5 5	< -30 dBr/100 kHz if	Appendix F	Pass	Test Location 1
Unwanted Emissions into Non-Restricted Frequency Bands	15.247(d)	RSS-247, 5.5	total average power ≤ power limit.	Appendix G	Pass	Test Location 1
Unwanted Emissions into Restricted Frequency Bands (Radiated)	15.247(d) 15.209 (NOTE 1)	RSS-247, 5.5 RSS-Gen, 6.13 RSS-Gen, 8.10	FCC Part 15.209 field strength limit; RSS-Gen 8.10 Field strength limit.	Appendix H	Pass	Test Location 1
AC Power Line Conducted Emissions	15.207	RSS-Gen, 8.8	FCC Part 15.207 conducted limit; RSS-Gen, 8.8 conducted limit.	Appendix I	Pass	Test Location 1

NOTE1: 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



Test Item	FCC Rule No.	ISED Rule No.	Requirements	Test Result	Verdict	Testing location

conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case emissions will also be required.

NOTE2: The transmitter has an integral PCB loop antenna that is enclosed within the housing of the EUT and meets the requirements of FCC 15.203

4 Description of the Equipment under Test (EUT)

4.1 General Description

MACHR-W29/MACHR-W19 is a notebook computer, Which supports 2.4G Wi-Fi, 5G Wi-Fi, and Bluetooth wireless frequency bands. It provides power and fingerprint key switch, one USB type A, two USB type C, and a earphone interfaces.

The difference between MACHR-W29 and MACHR-W19 is show in the following table:

	MACHR-W29 (with GPU version)	MACHR-W29 (without GPU version)	MACHR-W19 (with GPU version)	MACHR-W19 (without GPU version)
PCB layout	The same	The same	The same	The same
Main board	The same	Delete GPU chip and related components	The same	Delete GPU chip and related components
Frequency	The same, support Wi-Fi 2.4G&5G,BT 2.4G	The same,support Wi-Fi 2.4G&5G,BT 2.4G	The same, support Wi-Fi 2.4G&5G,BT 2.4G	The same, support Wi-Fi 2.4G&5G,BT 2.4G
BT/ Wi-Fi antenna	The same	The same	The same	The same
Appearance	The same	The same	The same	The same
Dimension	The same	The same	The same	The same
CPU	Whiskey lake-U i7, Support max 4.6GHz	Whiskey lake-U i7, Support max 4.6GHz	Whiskey lake-U i5, Support max 3.9GHz	Whiskey lake-U i5, Support max 3.9GHz



GPU	Support	Not support	Support	Not support
Memory	16/8G	16/8G	8G	8G
SSD	512G/1T	512G/1T	256G/512G	256G/512G
Rear camera	Not support	Not support	Not support	Not support
Front camera	The same	The same	The same	The same
Adapter	The same	The same	The same	The same
Battery	The same	The same	The same	The same
Accessories	The same	The same	The same	The same

Note1: Only Bluetooth BLE test data included in this report.

Note2: We do not test the data of MACHR-W19 except RSE (worst case) and the data is not worsen, So all test data share the MACHR-W29.

4.2 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.

4.2.1 Board

Board					
Description	Software Version	Hardware Version			
Main Board	1.5.0.7(C001)	SP2MACHRW19M			

4.2.2 Sub- Assembly

Sub-Assemb	Sub-Assembly							
Sub-Assembly	Model	Manufacturer	Description					
Name								
Adapter	HW-200325EP0	Huawei	Input voltage: 100-240V ~50/60Hz 1.8A					
		Technologies	Output voltage: 5V === 2A OR 9V === 2A					
		Co., Ltd.	OR 12V === 2A OR 15V === 3A OR					
			20V === 3.25A					
Adapter	HW-200325BP0	Huawei	Input voltage: 100-240V ~50/60Hz 1.8A					
		Technologies	Output voltage: 5V === 2A OR 9V === 2A					
		Co., Ltd.	OR 12V === 2A OR 15V === 3A OR					
			20V === 3.25A					
Adapter	HW-200325UP0	Huawei	Input voltage: 100-240V ~50/60Hz 1.8A					
		Technologies	Output voltage: 5V === 2A OR 9V === 2A					



Sub-Assemb	Sub-Assembly							
Sub-Assembly	Model	Manufacturer	Description					
Name								
		Co., Ltd.	OR 12V === 2A OR 15V === 3A OR					
			20V === 3.25A					
Adapter	HW-200325AP0	Huawei	Input voltage: 100-240V ~50/60Hz 1.8A					
		Technologies	Output voltage: 5V === 2A OR 9V === 2A					
		Co., Ltd.	OR 12V === 2A OR 15V === 3A OR					
			20V === 3.25A					
Adapter	HW-200325CP0	Huawei	Input voltage: 100-240V ~50/60Hz 1.8A					
		Technologies	Output voltage: 5V === 2A OR 9V === 2A					
		Co., Ltd.	OR 12V === 2A OR 15V === 3A OR					
			20V === 3.25A					
Adapter	HW-200325JP0	Huawei	Input voltage: 100-240V ~50/60Hz 1.8A					
		Technologies	Output voltage: 5V === 2A OR 9V === 2A					
		Co., Ltd.	OR 12V === 2A OR 15V === 3A OR					
			20V === 3.25A					
Battery	HB4593R1ECW	Huawei	Rated capacity: 7410mAh					
		Technologies	Poted Voltage:					
		Co., Ltd.	Rated Voltage: +7.6V					
			Limited Charge Voltage: === +8.7V					



4.3 Technical Description

NOTE: For the detailed technical descriptions, see the applicant/manufacturer's specifications or user manual.

Characteristics	Description	
TX/RX Operating	2400-2483.5	fc = 2402 MHz + N * 2 MHz, where:
Range	MHz band	- fc = "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	: 1M04FXD
	GFSK for BT 5.0	: 2M06FXD
Bluetooth Power Class	Class 1	
Antenna	Description	Isotropic Antenna
	Туре	
		☐ External
		☐ Dedicated
	Ports	
	Gain	0.5 dBi (per antenna port, max.)
	Remark	When the EUT is put into service, the practical maximum
		antenna gain should NOT exceed the value as described
		above.
Power Supply	Туре	☐ External DC mains,
		Battery,
		□ AC/DC Adapter, □
		☐ Powered over Ethernet (PoE).
		Other



5 General Test Conditions / Configurations

5.1 EUT Configurations

5.1.1 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.

5.1.2 Customized Configurations

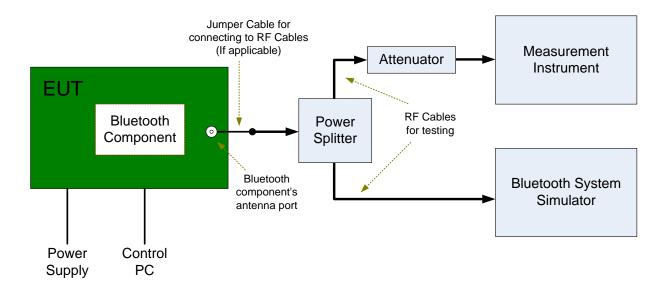
# EUT Conf.	Signal Description	Operating Frequency	Duty cycle
TM1_Ch0	GFSK for BT 4.2modulation, package type DH5,	Ch No. 0 / 2402 MHz	62.40%
	hopping off.		02.40%
TM1_Ch19	GFSK for BT 4.2 modulation, package type DH5,	Ch No. 19 / 2440 MHz	62.40%
	hopping off.		02.40%
TM1_Ch39	GFSK for BT 4.2 modulation, package type DH5,	Ch No. 39 / 2480 MHz	62.40%
	hopping off.		02.40%
TM2_Ch0	GFSK for BT 5.0 modulation, package type DH5,	Ch No. 0 / 2402 MHz	33.10%
	hopping off.		33.1076
TM2_Ch19	GFSK for BT 5.0 modulation, package type DH5,	Ch No. 19 / 2440 MHz	33.10%
	hopping off.		
TM2_Ch39	GFSK for BT 5.0 modulation, package type DH5,	Ch No. 39 / 2480 MHz	33.10%
	hopping off.		



5.2 Test Setups

5.2.1 Test Setup 1

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by Bluetooth System Simulator and/or PC/software to emit the specified signals for the purpose of measurements.

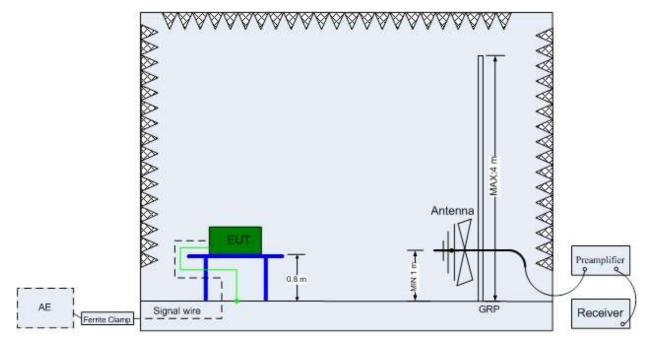


5.2.2 Test Setup 2

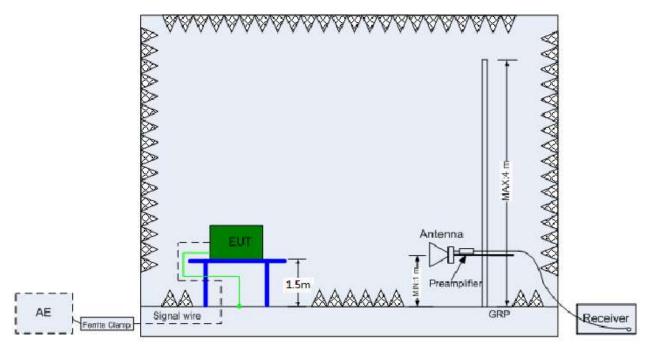
The semi-anechoic chamber and full-anechoic chamber has met the requirement of ANSI C63.4. The test distance is 3m.The setup is according to ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).





(Below 1 GHz)



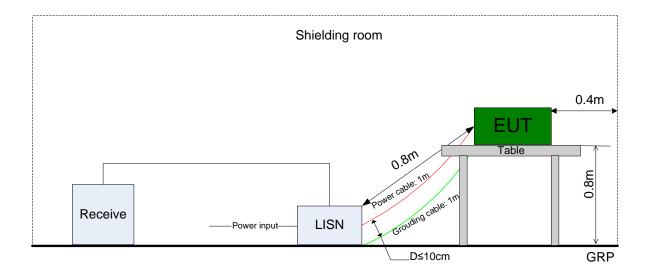
(Above 1 GHz)



5.2.3 Test Setup 3

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.





5.3 Test Conditions

Test Case	Test Conditions					
	Configuration	Description				
6dB Emission	Meas. Method	FCC KDB 558074 D01 §8.2 Option 2.				
Bandwidth (EBW)	Test Env.	nv. TN/VN				
	Test Setup	Test Setup 1				
	EUT Conf.	TM1_Ch0, TM1_C	h19, TM1_Ch39.			
		TM2_Ch0, TM2_Ch19, TM2_Ch39.				
Occupied	Meas. Method	FCC KDB 558074	D01 §8.2 Option 2.			
Bandwidth	Test Env.	TN/VN				
	Test Setup	Test Setup 1				
	EUT Conf.	TM1_Ch0, TM1_C	h19, TM1_Ch39.			
		TM2_Ch0, TM2_C	h19, TM2_Ch39.			
Maximum peak	Meas. Method	FCC KDB 558074	D01 §8.3.1.1			
Conducted Output	Test Env.	TN/VN				
Power	Test Setup	Test Setup 1				
	EUT Conf.	TM1_Ch0, TM1_C	h19, TM1_Ch39.			
		TM2_Ch0, TM2_Ch19, TM2_Ch39.				
Maximum Power	Meas. Method	FCC KDB 558074 D01 §8.4				
Spectral Density	Test Env.	TN/VN				
Level	Test Setup	Test Setup 1				
	EUT Conf.	TM1_Ch0, TM1_C	h19, TM1_Ch39.			
		TM2_Ch0, TM2_C	h19, TM2_Ch39.			
Band edge spurious	Meas. Method	FCC KDB 558074	D01§8.7			
emission	Test Env.	TN/VN				
	Test Setup	Test Setup 1				
	EUT Conf.	TM1_Ch0, TM1_C	h39.			
		TM2_Ch0, TM2_C	h39.			
Unwanted	Meas. Method	FCC KDB 558074	D01§8.5			
Emissions into	Test Env.	TN/VN				
Non-Restricted	Test Setup	Test Setup 1				
Frequency Bands	EUT Conf.	TM1_Ch0, TM1_C	h19, TM1_Ch39.			
		TM2_Ch0, TM2_C	h19, TM2_Ch39.			
Unwanted	Meas. Method	ANSI C63.10; FCC	KDB 558074 D01§8.6, Radiated			
Emissions into	Test Env.	TN/VN				
Restricted	Test Setup	Test Setup 2				
Frequency Bands	EUT Conf.	30 MHz -1 GHz	TM1_Ch0 (Worst Conf.). TM2_Ch0 (Worst Conf.).			
(Radiated)		1-3 GHz TM1_Ch0, TM2_Ch39.				
			TM2_Ch0, TM2_Ch39.			
		3-18 GHz	TM1_Ch19 (Worst Conf.), TM2_Ch19 (Worst Conf.),			
		18-26.5 GHz	TM1_Ch0 (Worst Conf.). TM2_Ch0 (Worst Conf.).			



Test Case	Test Conditions	litions				
	Configuration	Description				
AC Power Line	Meas. Method	AC mains conducted.				
Conducted		Pre: RBW = 10 kHz; Det. = Peak.				
Emissions		Final: RBW = 9 kHz; Det. = CISPR Quasi-Peak & Average.				
	Test Env.	TN/VN				
	Test Setup	Test Setup 3				
	EUT Conf.	TM1_Ch39, TM2_Ch39				



6 Main Test Instruments

This table gives a complete overview of the RF measurement equipment. Devices used during the test described are marked \boxtimes

	Test Equipment (BT/WIF	test system)				
Marked	Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
\boxtimes	JS1120-3 BT/WIFI test system	JS Tonscend	JS0806-2	/	2018/05/30	2019/05/30
	Power Detecting & Samplig Unit	R&S	OSP-B157	101429	2018/07/23	2019/07/23
	Power Sensor	R&S	NRP2	103085/106211	2018/05/17	2019/05/17
	DC Power Supply	KEITHLEY	2303	1342889	2018/10/24	2019/10/24
	DC Power Supply	KEITHLEY	2303	000500E	2018/05/21	2019/05/21
	DC Power Supply	KEITHLEY	2303	1288003	2018/05/21	2019/05/21
	DC Power Supply	KEITHLEY	2303	000381E	2018/05/21	2019/05/21
	DC Power Supply	KEITHLEY	2303	000510E	2018/10/24	2019/10/24
	Temperature Chamber	WEISS	WKL64	5624600294001 0	2018/12/13	2019/12/13
\boxtimes	Spectrum Analyzer	Agilent	N9030A	MY51380032	2018/07/23	2019/07/23
	Spectrum Analyzer	Agilent	N9030A	MY49431698	2018/07/23	2019/07/23
	Spectrum Analyzer	Keysight	N9040B	MY57212529	2018/06/28	2019/06/28
	Signal Analyzer	R&S	FSQ31	200021	2018/07/23	2019/07/23
	Signal Analyzer	R&S	FSU26	201069	2018/11/2	2019/11/2
	Universal Radio Communication Tester	R&S	CMW500	159302	2018/07/23	2019/07/23
	Wireless Communication Test set	Agilent	N4010A	MY49081592	2018/07/23	2019/07/23
	Signal generator	Agilent	E8257D	MY51500314	2018/04/27	2019/04/27
	Signal generator	Agilent	E8257D	MY49281095	2018/07/23	2019/07/23
	Vector Signal Generator	R&S	SMW200A	103447	2018/05/31	2019/05/31
	Vector Signal Generator	R&S	SMU200A	104162	2018/07/23	2019/07/23

	Main Test Equipment (CE test system)							
Marked	Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due		
	Test receiver	R&S	ESU26	100387	2019/01/15	2020/01/14		
\boxtimes	Test receiver	R&S	ESCI	101163	2019/01/15	2020/01/14		
	Artificial Main Network	R&S	ENV4200	100134	2018/05/08	2019/05/07		
\boxtimes	Line Impedance Stabilization Network	R&S	ENV216	100382	2018/05/08	2019/05/07		
\boxtimes	Measurement Software	R&S	EMC32 V9.25.0	/	/	/		



	Test Equipment(RE test	1				
Marked	Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
\boxtimes	Test receiver	R&S	ESU26	100387	2019/01/15	2020/01/14
\boxtimes	LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100262	2017/04/25	2019/04/25
	LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100263	2017/04/25	2019/04/25
\boxtimes	Trilog Broadband Antenna (30M~3GHz)	SCHWARZBE CK	VULB 9163	9163-357	2017/04/21	2019/04/20
	Trilog Broadband Antenna (30M~3GHz)	SCHWARZBE CK	VULB 9163	9163-520	2017/3/29	2019/3/28
	Trilog Broadband Antenna (30M~3GHz)	SCHWARZBE CK	VULB 9163	9163-491	2017/3/29	2019/3/28
	Trilog Broadband Antenna (30M~3GHz)	SCHWARZBE CK	VULB 9163	9163-356	2018/4/9	2020/4/8
\boxtimes	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	100305	2017/4/21	2019/4/20
	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF906	100684	2017/5/27	2019/5/26
	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF906	100683	2017/3/29	2019/3/28
\boxtimes	Pyramidal Horn Antenna(18GHz-26.5G Hz)	ETS-Lindgren	3160-09	5140299	2017/07/20	2019/07/19
	Pyramidal Horn Antenna(18GHz-26.5G Hz)	ETS-Lindgren	3160-09	00206665	2018/4/21	2020/4/20
\boxtimes	Pyramidal Horn Antenna(26.5GHz-40G Hz)	ETS-Lindgren	3160-10	00205695	2018/04/20	2020/04/19
	Pyramidal Horn Antenna(26.5GHz-40G Hz)	ETS-Lindgren	3160-10	LM5947	2017/07/20	2019/07/19
\boxtimes	Measurement Software	R&S	EMC32 V9.25.0	/	/	/



7 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
Transmit Output Power Data	Power [dBm]	U = 0.39 dB
RF Power Density, Conducted	Power [dBm]	U = 0.64 dB
Bandwidth	Magnitude [%]	U=7%
Band Edge Compliance	Disturbance Power [dBm]	U = 0.9 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	20MHz~3.6GHz: U=0.88dB
		3.6GHz~8.4GHz: U=1.08dB
		8.4GHz~13.6GHz: U=1.24dB
		13.6GHz~22GHz: U=1.34dB
		22GHz~26.5GHz: U=1.36dB
Field Strength of Spurious	ERP/EIRP [dBm]	For 3 m Chamber:
Radiation		U = 5.90 dB (30 MHz-1 GHz)
		U = 4.94 dB (1 GHz-18 GHz)
		U = 4.24 dB (18 GHz-26.5 GHz)
Frequency Stability	Frequency Accuracy [Hz]	U=41.58Hz
AC Power Line Conducted	Disturbance	U=2.3 dB
Emissions	Voltage[dBµV]	
Duty Cycle	Duty Cycle [%]	U=±2.06 %

8 Appendixes

Appendix No.	Description
SYBH(Z-RF)20190123011002-2004-A	Appendix for Bluetooth BLE

END