

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>60415352 004</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	168279564	Seite 1 von 19 Page 1 of 19
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2020-11-01	
<b>Auftraggeber:</b> <i>Client:</i>	SPECTRA Technologies Holdings Co., Ltd. Unit 1301-09, 19-20, Tower II, Grand Century Place, Kowloon, Hong Kong			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Android POS			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	APOLLO			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Test Report			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart E Section 15.407 CFR47 FCC Part 22 CFR47 FCC Part 24 CFR47 FCC Part 27 CFR47 FCC Part 90			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2020-11-01	Refer to Product Photos		
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A002920755-006			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2020-11-01 – 2020-12-28			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von:</b> <i>tested by:</i>	 <b>Lin Lin</b>	<b>genehmigt von:</b> <i>authorized by:</i>	 <b>Winnie Hou</b>	
<b>Datum:</b> <i>Date:</i>	2020-12-30	<b>Ausstellungsdatum:</b> <i>Issue date:</i>	2020-12-30	
<b>Stellung / Position:</b>	Senior Project Manager	<b>Stellung / Position:</b>	Technical Certifier	
<b>Sonstiges / Other:</b>  FCC ID: VWZTA10Q	The radio module SC20-A combination in a new host and use a new antenna for WWAN, WLAN and Bluetooth, due to these change, the Radiated spurious emissions, Dynamic Frequency Selection (DFS) and Conducted Emissions on AC Mains are arranged re-test and the RF output power is arranged spot checked, the other test data can be refer to test report FG741007A, FG741007B, FW741007, FR741007A, FR741007B, FR741007C, FR741007D, FR741007E as issued by Sporton International (KunShan) INC.			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut 3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good 3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor N/T = not tested
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

## **Test Summary**

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 RF OUTPUT POWER**

*RESULT: Pass*

**5.1.3 RADIATED SPURIOUS EMISSIONS**

*RESULT: Pass*

**5.1.4 CONDUCTED EMISSIONS ON AC MAINS**

*RESULT: Pass*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Data of RF Output Power, Bluetooth and 2.4GHz WiFi Radiated Spurious Emissions, Conducted Emissions on AC Mains

Appendix B: Test Data of 5GHz WiFi Radiated Spurious Emissions

Appendix C: Test Data of GSM/WCDMA/LTE Radiated Spurious Emissions

Appendix D: Photographs of the Test Set-up

## 2 Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Accreditation Designation No.: CN1260

### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Radio Spectrum Testing (TS8997)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
Wireless Connectivity Tester	R&S	CMW270	101375	19.08.2021
Signal Analyzer	R&S	FSV 40	101441	19.08.2021
Vector Signal Generator	R&S	SMBV100A	263301	20.08.2021
Signal Generator	R&S	SMB100A	115186	21.08.2020
OSP	R&S	OSP 150	101017	16.12.2021
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	16.12.2021
Wideband Power Sensor	R&S	NRP-Z81	105350	16.12.2021
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	10.04.2021
Shielding Room 8#	Albatross	SR8	APC17151-SR8	22.07.2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	133884	04.02.2021
<b>Unwanted Emission Testing (TS8996)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
Signal Generator	R&S	SMB100A	180840	19.08.2021
Wideband Radio Communication Tester	R&S	CMW500	165339	19.08.2021
Signal Analyzer	R&S	FSV 40	101440	20.08.2021
System Controller Interface	R&S	SCI-100	S10010036	N/A
OSP	R&S	OSP 120	102041	N/A
OSP	R&S	OSP 150	101385	17.12.2020
Pre-amplifier	R&S	SCU08F1	08320030	19.08.2021
Amplifier	R&S	SCU-18F	180079	19.08.2021
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	01.09.2021
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218719	01.09.2021
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	01.09.2021

Biconical Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VUBA 9117	357	01.09.2021
Double Ridged Broadband Horn Antenna (1 – 18 GHz)	Schwarzbeck	BBHA 9120 D	01760	01.09.2021
Broadband Horn Antenna (15 – 40 GHz)	Schwarzbeck	BBHA 9170	00862	01.09.2021
Test software	R&S	EMC32 (V10.50.40)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NW9P2	N/A
3m Fully Anechoic Chamber	Albatross	FAC-3m	APC17151-FAC	06.07.2021

**Conducted Emission on AC Mains**

Equipment	Manufacturer	Model No.	Serial No.	Cali. until
EMI Test Receiver	R&S	ESR3	102680	19.02.2021
Artificial Mains Network	R&S	ENV216	101445	19.02.2021
EMC32 test software	R&S	EMC32(Ver.10.50.0 1)	N/A	N/A

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty as below table.

Parameter	Uncertainty
RF Output Power, Conducted	±1.5 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 4.52 dB
Radiated Emission (3m SAC), above 1000MHz	± 4.37 dB
Temperature	±1 °C
Humidity	±5 %
Voltage (DC)	±1 %
Voltage (AC, <10kHz)	±2 %

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd.. file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The EUT is an Android POS which supports Bluetooth, 2.4G Wi-Fi 802.11 b/g/n, 5G Wi-Fi 802.11a/n, NFC and GSM/WCDMA/LTE wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 2: Technical Specification of EUT**

<b>Product Name</b>	Android POS
<b>Model No.(EUT)</b>	APOLLO
<b>FCC ID</b>	VWZTA10Q
<b>Device Dimension</b>	Overall (Length x Width x High): 175 x 80 x 60 mm
	Overall Diagonal: 204 mm
	Display Diagonal: 140 mm
<b>HW Version</b>	msm8909
<b>SW Version</b>	7.1.2.01.001
<b>Tx Frequency Bands</b>	GSM850: 824.2 to 848.8 MHz
	PCS1900: 1850.2 to 1909.8 MHz
	WCDMA850: 826.4 to 846.6 MHz
	WCDMA1700: 1712.4 to 1752.6 MHz
	WCDMA1900: 1852.4 to 1907.6 MHz
	LTE BAND2: 1850.7 to 1909.3 MHz
	LTE BAND4: 1710.7 to 1754.3 MHz
	LTE BAND5: 824.7 to 848.3 MHz
	LTE BAND7: 2502.5 to 2567.5 MHz
	LTE BAND12: 699.7 to 715.3 MHz
	LTE BAND13: 779.5 to 784.5 MHz
	LTE BAND25: 1850.7 to 1914.3 MHz
	LTE band 26: 814.7 to 848.3 MHz
	WLAN: 2412 to 2462MHz, 5180 to 5240MHz, 5260 to 5320MHz, 5500 to 5700MHz, 5745 to 5825MHz
Bluetooth: 2402 to 2480MHz	
NFC: 13.56MHz	
<b>Rx Frequency Bands</b>	GSM850: 869.2 to 893.8 MHz
	PCS1900: 1930.2 to 1989.8 MHz
	WCDMA850: 871.4 to 891.6 MHz
	WCDMA1700: 1932.4 to 1987.6 MHz
	WCDMA1900: 2112.4 to 2152.6 MHz
	LTE BAND2: 1930.7 to 1989.3 MHz
	LTE BAND4: 2110.7 to 2154.3 MHz
	LTE BAND5: 869.7 to 893.3 MHz
	LTE BAND7: 2622.5 to 2687.5 MHz
	LTE BAND12: 729.7 to 745.3 MHz
	LTE BAND13: 748.5 to 753.5 MHz
	LTE BAND25: 1930.7 to 1994.3 MHz
	LTE band 26: 859.7 to 893.3 MHz
	WLAN: 2412 to 2462MHz, 5180 to 5240MHz, 5260 to 5320MHz, 5500 to 5700MHz, 5745 to 5825MHz



	Bluetooth: 2402 to 2480MHz NFC: 13.56MHz	
<b>Bandwidth</b>	GSM850: 200KHz PCS1900: 200KHz WCDMA850: 200KHz WCDMA1700: 200KHz WCDMA1900: 200KHz LTE BAND2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE BAND4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE BAND5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE BAND7: 5MHz, 10MHz, 15MHz, 20MHz LTE BAND12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE BAND13: 5MHz, 10MHz LTE BAND25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz WLAN: 20MHz, 40MHz Bluetooth: 1MHz, 2MHz NFC: 13.56MHz	
<b>Modulation</b>	GSM & GPRS: GMSK EDGE: GMSK/8PSK WCDMA: QPSK LTE: QPSK, 16QAM 802.11b: DSSS 802.11a/g/n: OFDM Bluetooth: GFSK, PI/4-DQPSK, 8-DPSK NFC: ASK	
<b>Power Class</b>	4, tested with power level 5(GSM850) 1, tested with power level 0(GSM1900) 3, tested with power control "all 1"(UMTS Bands) 3, tested with power control all Max.(LTE Bands) Max output power for WLAN and Bluetooth	
<b>Device Class</b>	B	
<b>Wireless Router (Hotspot)</b>	Not Support	
<b>VOIP</b>	Not Support	
<b>Antenna Type</b>	WWAN: Dipole Antenna WLAN/Bluetooth: PIFA Antenna	
<b>Antenna Gain</b>	WWAN: 2dBi WLAN/Bluetooth: 1dBi	
<b>EUT Stage</b>	Identical Prototype	
<b>Battery</b>	<b>Model Name</b>	LARGE18650
	<b>Power Rating</b>	7.2Vdc, 2600mAh
	<b>Type</b>	Li-ion
<b>AC/DC Adapter</b>	<b>Model Name</b>	UWP-10W-0520S
	<b>Rating</b>	Input: 100-240Vac, 50/60Hz Output: 5Vdc, 2A
<b>Earphone</b>	3.5mm Earphone	
<b>USB-C Cable</b>	Shielding, Length: 1m	

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. Bluetooth
- B. WiFi
- C. GSM/WCDMA/LTE

### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to Circuit Diagram for further details.

### **3.5 Submitted Documents**

- FCC/IC Label and Location Info

- User Manual

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014.

### 4.3 Test Environment, Test Channel and Frequency

Table 3: Test environments

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
TNVN	25°C±2°C	Fully charged battery	Ambient

Table 4: Test channel and frequency

Modes	Test Channels (MHz)	Remark
Bluetooth	Based on the report FR741007A, FR741007B worst case modes	Issued by Sporton International (KunShan) INC.
WiFi	Based on the report FR741007C, FR741007D, FR741007E worst case modes	Issued by Sporton International (KunShan) INC.
GSM/WCDMA	Based on the report FG741007A worst case modes	Issued by Sporton International (KunShan) INC.
LTE	Based on the report FG741007B, FW741007 worst case modes	Issued by Sporton International (KunShan) INC.

### 4.4 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	166305	N/A

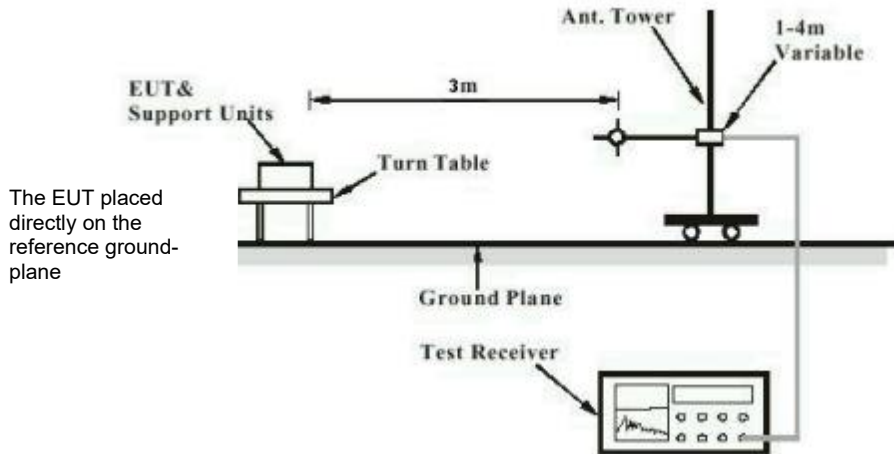
## **4.5 Countermeasures to Achieve EMC Compliance**

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

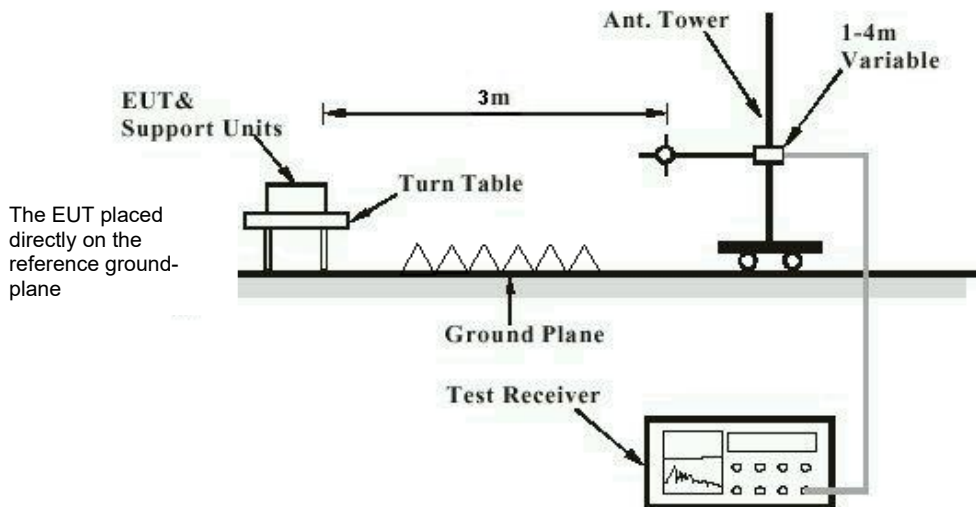
No additional measures were employed to achieve compliance.

## 4.6 Test Setup Diagram

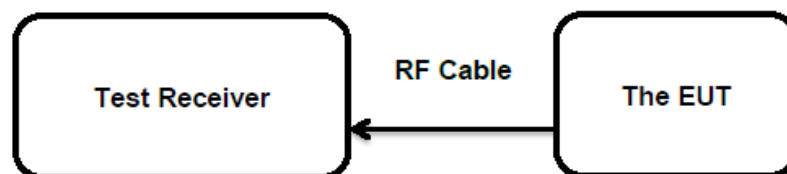
**Diagram of Measurement Configuration for Radiation Test (Below 1GHz)**



**Diagram of Measurement Configuration for Radiation Test (Above 1GHz)**



**Diagram of Measurement Configuration for Conducted Transmitter Measurement**



## 5 Test Results

### 5.1 Radio Test

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.203

The EUT has two integral antennas, the maximum gain of antenna is 1dBi for Wi-Fi and 1dBi for Bluetooth, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## 5.1.2 RF Output Power

**RESULT:** **Pass**

### Test Specification

Test standard : CFR47 FCC Part 15: Subpart C Section 15.247 (b)  
 CFR47 FCC Part 15: Subpart E Section 15.407 (a)  
 CFR47 FCC Part 22  
 CFR47 FCC Part 24  
 CFR47 FCC Part 27  
 CFR47 FCC Part 90

Test procedure : ANSI C63.26 and ANSI C63.10

	Operating bands	Limit
Limits :	GSM850	7W
	GSM1900	2W
	WCDMA850	7W
	WCDMA1700	1W
	WCDMA 1900	2W
	LTE Band 2	2W
	LTE Band 4	1W
	LTE Band 5	7W
	LTE Band 7	2W
	LTE Band 12	3W
	LTE Band 13	3W
	LTE Band 25	2W
	LTE Band 26	7W for 824 to 849MHz band 100W for 814 to 824MHz band
	Bluetooth DSS	125mW
Bluetooth DTS	1W	
WiFi 2.4GHz	1W	
WiFi 5.2/5.3/5.6GHz	250mW	
WiFi 5.8GHz	1W	

Kind of test site : Shielded Room

### Test Setup

Date of testing : 2020-11-01 to 2020-12-25  
 Input voltage : Fully Charged battery  
 Operation mode : A/B/C  
 Earthing : Not connected  
 Ambient temperature : 23 °C  
 Relative humidity : 52 %  
 Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

### 5.1.3 Radiated Spurious Emissions

**RESULT:**
**Pass**
**Test Specification**

Test standard : CFR47 FCC Part 15: Subpart C Section 15.247 (d)  
 CFR47 FCC Part 15: Subpart E Section 15.407 (b)  
 CFR47 FCC Part 22  
 CFR47 FCC Part 24  
 CFR47 FCC Part 27  
 CFR47 FCC Part 90  
 Basic standard : ANSI C63.26 and ANSI C63.10  
 Frequency range : 9KHz up to 10th harmonic of the highest frequency

Operating bands	Limit
GSM850	< - 13 dBm /100kHz @ < 1GHz
	< - 13 dBm /1MHz @ > 1GHz
GSM1900	< - 13 dBm /1MHz
WCDMA850	< - 13 dBm /100kHz @ < 1GHz
	< - 13 dBm /1MHz @ > 1GHz
WCDMA1700	< - 13 dBm /1MHz
WCDMA 1900	< - 13 dBm /1MHz
LTE Band 2	< - 13 dBm /1MHz
LTE Band 4	< - 13 dBm /1MHz
LTE Band 5	< - 13 dBm /100kHz @ < 1GHz
	< - 13 dBm /1MHz @ > 1GHz
LTE Band 7	< - 25 dBm /1MHz
LTE Band 12	< - 13 dBm /100kHz
LTE Band 13	< - 13 dBm /100kHz
LTE Band 25	< - 13 dBm /1MHz
LTE Band 26	7W for 824 to 849MHz band < - 13 dBm /100kHz @ < 1GHz < - 13 dBm /1MHz @ > 1GHz 814 to 824MHz band < - 13 dBm /100kHz
Bluetooth DSS	15.209(a) & 15.247(d)
Bluetooth DTS	15.209(a) & 15.247(d)
WiFi 2.4GHz	15.209(a) & 15.247(d)
WiFi 5.2/5.3/5.6GHz	15.209(a) & 15.407(b)
WiFi 5.8GHz	15.209(a) & 15.407(b)

Limits : The emissions not exceed the highest limit.  
 Kind of test site : 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

**Test Setup**

Date of testing : 2020-11-01 to 2020-12-25  
 Input voltage : Fully Charged battery  
 Operation mode : A/B/C  
 Earthing : Not connected  
 Ambient temperature : Refer to Appendix A  
 Relative humidity : Refer to Appendix A  
 Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.



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Note: The radiated spurious emissions which are attenuated more than 20 dB below the permissible value for above 18GHz, so it's don't need not be reported.

### 5.1.4 Conducted Emissions on AC Mains

**RESULT:****Pass****Test Specification**

Test standard : CFR47 FCC Part 15: Subpart C Section 15.207(a)  
Basic standard : ANSI C63.10  
Frequency range : 150KHz to 30MHz  
Limits : FCC Part 15.207(a)  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2020-11-01 to 2020-12-25  
Input voltage : AC 120V@60Hz  
Operation mode : A/B  
Earthing : Not connected  
Ambient temperature : 24 °C  
Relative humidity : 52 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

## 6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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