

TEST REPORT

FCC PART 15 SUBPART C 15.247

Test report

On Behalf of

Shenzhen DOOGEE Hengtong Technology CO.,LTD

For

Watch

Model No.: D06, Z05, Z06, Z07, D12A, CS6, P09, P10, D23

FCC ID: 2AX4Y-D06

Prepared for: Shenzhen DOOGEE Hengtong Technology CO.,LTD

B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22,Longhua

New District, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Aug. 09, 2021 ~ Aug. 16, 2021

Date of Report: Mar. 27, 2023

Report Number: HK2108102791-E



TEST RESULT CERTIFICATION

Applicant's name	Shenzhen DOOGEE	Hengtong T	Technology	CO.,LTD
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Address B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park,

No.22, Longhua New District, Shenzhen, China

Report No.: HK2108102791-E

Manufacture's Name Shenzhen DOOGEE Hengtong Technology CO.,LTD

B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park,

No.22, Longhua New District, Shenzhen, China

Product description

Trade Mark...... DOOGEE

Product name: Watch

Model and/or type reference ...: D06, Z05, Z06, Z07, D12A, CS6, P09, P10, D23

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Date of Test....:

Date (s) of performance of tests Aug. 09, 2021 ~ Aug. 16, 2021

Date of Issue Mar. 27, 2023

Test Result Pass

Prepared by:

Project Engineer

Reviewed by:

Project Supervisor

Approved by:

Technical Director



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Revision History

Report No.: HK2108102791-E

Revision		Issue Date	Description	Revised By
V	′1.0	Mar. 27, 2023	Initial Issue	Jason Zhou
TING	THE	TING	TING	TING
NAKTES	WAN TES	THAK TES	- HUAKTES	ALTES.

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1 Test Summary

1.1 Test Description

"IAR" "IAR"	"IAI"	"IAI"
Test Item	Test Requirement	Result
Antenna Requirement	§15.203/§15.247(b)(4)	PASS
Conducted Emission	FCC Part 15.207	PASS
Radiated Emissions	FCC Part 15.205/15.209	PASS
Maximum Peak Output Power	FCC Part 15.247(b)	PASS
Power Spectral Density	FCC Part 15.247 (e)	PASS
6dB Bandwidth & 99% Bandwidth	FCC Part 15.247(a)(2)	PASS
Spurious RF Conducted Emission	FCC Part 15.247(d)	PASS
Band Edge	FCC Part 15.247(d)	PASS

FICATION.

Report No.: HK2108102791-E



1.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties. The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. The maximum value of the uncertainty as below:

Report No.: HK2108102791-E

No.	Item	Uncertainty
1	Conducted Emission Test	±2.71dB
2	All emissions, radiated(<1G)	±3.90dB
3 WAKT	All emissions, radiated(>1G)	±4.28dB

1.3 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

KDB 558074 D01 15.247 Meas Guidance v05r02: GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

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2 Test Facility

The test facility is recognized, certified or accredited by the following organizations:

Address of the test laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District,

Shenzhen, Guangdong, China Designation Number: CN1229

Test Firm Registration Number: 616276

3 General Information

3.1 General Description of EUT

Manufacturer Address: B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park No.22,Longhua New District, Shenzhen, China EUT Name: Watch Model No: D06 Series Models: Z05, Z06, Z07, D12A, CS6, P09, P10, D23 All model's the function, software and electric circuit are the same only with Appearance shape, material and model named different Test sample model: D06. Brand Name: DOOGEE Operation frequency: Channel separation: NUMBER OF CHANNEL: Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: Antenna Type: Internal Antenna Antenna Gain: Power Supply: DC 5V from Adapter or DC 3.7V from Battery Note:	Manufacturer:	Shenzhen DOOGEE Hengtong Techr	nology CO.,LTD
Model No: D06 Series Models: Z05, Z06, Z07, D12A, CS6, P09, P10, D23 All model's the function, software and electric circuit are the same only with Appearance shape, material and model named different Test sample model: D06. Brand Name: D00GEE Operation frequency: 2402 MHz to 2480 MHz Channel separation: 2MHz NUMBER OF CHANNEL: Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Manufacturer Address:	- 10	
Series Models: Z05, Z06, Z07, D12A, CS6, P09, P10, D23 All model's the function, software and electric circuit are the same only with Appearance shape, material and model named different Test sample model: D06. Brand Name: DOOGEE Operation frequency: 2402 MHz to 2480 MHz Channel separation: MUMBER OF CHANNEL: 40 Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	EUT Name:	Watch	- C
All model's the function, software and electric circuit are the same only with Appearance shape, material and model named different Test sample model: D06. Brand Name: DOOGEE Operation frequency: 2402 MHz to 2480 MHz Channel separation: 2MHz NUMBER OF CHANNEL: 40 Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Model No:	D06	JAK TESTI
Model Difference: only with Appearance shape, material and model named different Test sample model: D06. Brand Name: DOOGEE Operation frequency: 2402 MHz to 2480 MHz Channel separation: 2MHz NUMBER OF CHANNEL: 40 Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Series Models:	Z05, Z06, Z07, D12A, CS6, P09, P10), D23
Operation frequency: 2402 MHz to 2480 MHz Channel separation: 2MHz NUMBER OF CHANNEL: 40 Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Model Difference:	only with Appearance shape, materi	
Channel separation: NUMBER OF CHANNEL: Modulation Technology: GFSK Hardware Version: Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Brand Name:	DOOGEE	
NUMBER OF CHANNEL: 40 Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Operation frequency:	2402 MHz to 2480 MHz	(a) Hon
Modulation Technology: GFSK Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Channel separation:	2MHz	The
Hardware Version: RH189AV01 VC11R6V01 Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	NUMBER OF CHANNEL:	40	HUAKTE
Software Version: V004448 Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Modulation Technology:	GFSK	HUAN
Antenna Type: Internal Antenna Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Hardware Version:	RH189AV01 VC11R6V01	TESTING
Antenna Gain: 4.81dBi Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Software Version:	V004448	UAIC.
Power Supply: DC 5V from Adapter or DC 3.7V from Battery	Antenna Type:	Internal Antenna	JAK TESTING WAY TESTING
	Antenna Gain:	4.81dBi	(a)
Note:	Power Supply:	DC 5V from Adapter or DC 3.7V from	n Battery
	Note:	TING	TING

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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Description of Channel: Frequency Frequency Frequency Channel Channel Channel (MHz) (MHz) (MHz)

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3.2 Description of Test conditions

(1) E.U.T. test conditions:

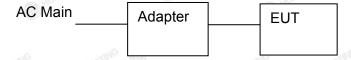
For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

- (2) Frequency range of radiated measurements:

 The test range will be up to the tenth harmonic of the highest fundamental frequency.
- (3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode,
 - only the worst-case results are recorded in this report.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and radiation below 1GHz:



Operation of EUT during Above1GHz Radiation testing:



 Adapter information Model: HW-059200CHQ

Input: 100~240V, 50/60Hz 0.5A

Output: 5VDC, 2A

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



HUAK TESTING Page 11 of 44 Equipments List for All Test Items

						TING (II)	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 10, 2020	1 Year	
2.	L.I.S.N.	R&S	ENV216	HKE-059	Dec. 10, 2020	1 Year	
3.	Receiver	R&S	ESCI 7	HKE-010	Dec. 10, 2020	1 Year	
4.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	1 Year	
5.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 10, 2020	1 Year	
6.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	1 Year	
7.	High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Dec. 10, 2020	1 Year	
8.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 10, 2020	1 Year	
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 10, 2020	1 Year	
10.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 10, 2020	1 Year	
11.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 10, 2020	1 Year	
12	Pre-amplifier	EMCI	EMC051845SE	HKE-015	Dec. 10, 2020	1 Year	
13	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 10, 2020	1 Year	
14	High pass filter unit	Tonscend	JS0806-F	HKE-055	Dec. 10, 2020	1 Year	
15	Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A	
16	Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A	
17.	RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A	
18.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	3 Year	
19.	RF test software	Tonscend	JS1120-4	HKE-113	N/A	N/A	
20.	RF test software	Tonscend	JS1120-3	HKE-114	N/A	N/A	
21.	RF test software	Tonscend	JS1120-1	HKE-115	N/A	N/A	
22.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	1 Year	
23.	Signal generator	Agilent	N5182A	HKE-029	Dec. 10, 2020	1 Year	
24.	Signal Generator	Agilent	83630A	HKE-028	Dec. 10, 2020	1 Year	
25	Power meter	Agilent	E4419B	HKE-085	Dec. 10, 2020	1 Year	
26	Power Sensor	Agilent	E9300A	HKE-086	Dec. 10, 2020	1 Year	

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RF 27 Times 9kHz-1GHz HKE-117 Dec. 10, 2020 1 Year Cable(below1GHz) RF Cable(above 28. **Times** 1-40G HKE-034 Dec. 10, 2020 1 Year 1GHz) RF Cable 29 Tonscend 170660 N/A Dec. 10, 2020 1 Year (9KHz-40GHz) 4*3*3 Dec. 17, 2020 30 Shielded room Shiel Hong HKE-039 3 Year **BBHA 9170** Dec. 10, 2020 Horn Antenna Schewarzbeck HKE-017 1 Year

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5 Test Result

5.1 Antenna Requirement

5.1.1 Standard requirement

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, 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.

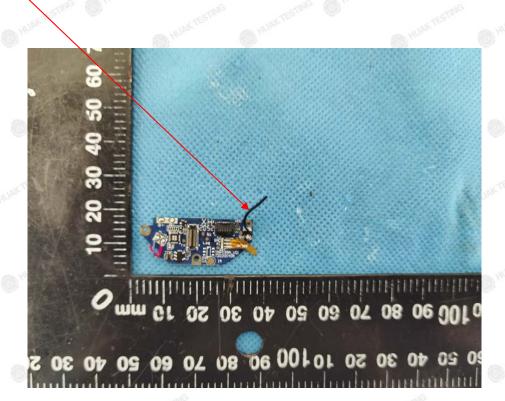
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Internal antenna which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 4.81dBi.

5.1.2 EUT Antenna



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5.2 Conduction Emissions Measurement

5.2.1 Applied procedures / Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

HUAKTESTI	- HUARTESTIN	Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average		
STINE	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		

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

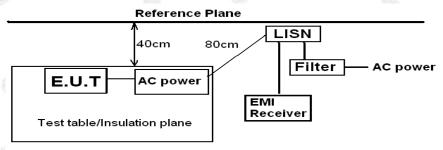
5.2.2 Test procedure

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on turntable; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

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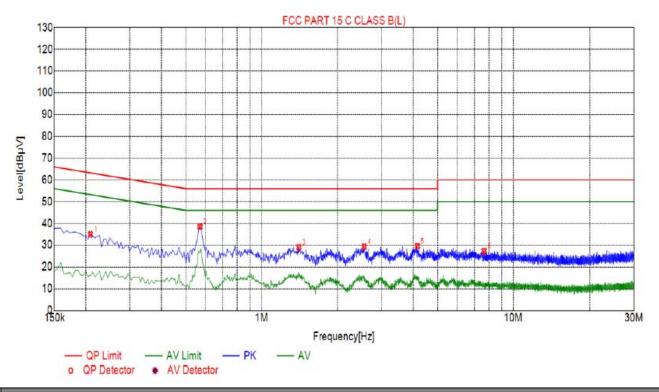
5.2.3 Test setup



Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m

5.2.4 Test results

Test Specification: Line



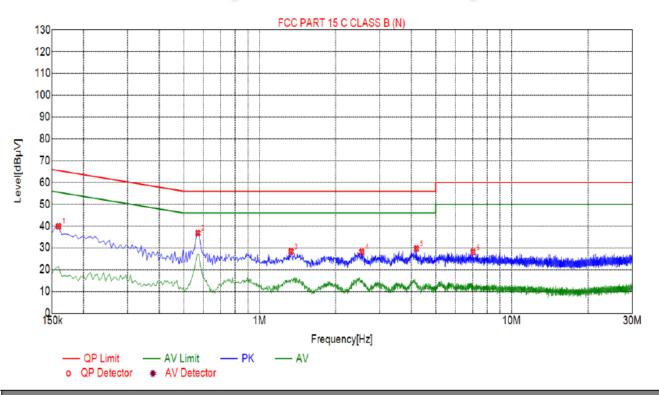
3	Suspected List									
10000	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
	1	0.2085	34.99	20.04	63.26	28.27	14.95	PK	L	
ě	2	0.5685	38.50	20.05	56.00	17.50	18.45	PK	٦	
	3	1.4055	29.07	20.11	56.00	26.93	8.96	PK	L	
	4	2.5575	29.28	20.20	56.00	26.72	9.08	PK	L	
,	5	4.1595	29.52	20.25	56.00	26.48	9.27	PK	L	
	6	7.6515	27.32	20.17	60.00	32.68	7.15	PK	لــ	

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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Test Specification: Neutral



Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.1590	39.85	20.01	65.52	25.67	19.84	PK	N		
2	0.5685	36.71	20.05	56.00	19.29	16.66	PK	N		
3	1.3335	28.30	20.10	56.00	27.70	8.20	PK	N		
4	2.5440	28.14	20.20	56.00	27.86	7.94	PK	N		
5	4.1910	29.63	20.25	56.00	26.37	9.38	PK	N		
6	7.0395	28.04	20.20	60.00	31.96	7.84	PK	N		

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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5.3 Radiated Emissions Measurement

5.3.1 Applied procedures / Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

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 §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

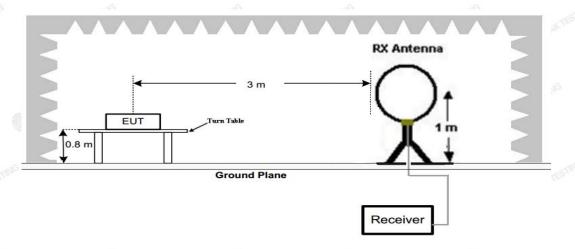
Radiated emission limits

Fre	equency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
H	1.705-30	3	20log(30)+ 40log(30/3)	30
	30-88	3	40.0	100
STING	88-216	3 TESTING	43.5	150
	216-960	3	46.0	200
	Above 960	3	54.0	500

5.3.2 Test setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:

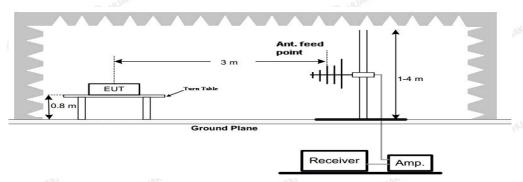


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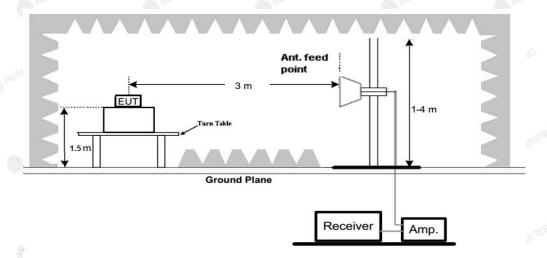
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3) 1 GHz to 25 GHz emissions:



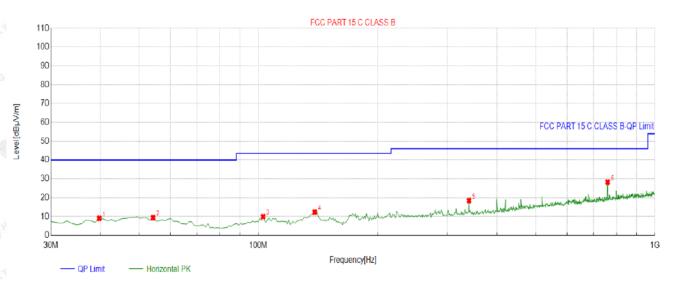
Test Procedure

- The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.

5.3.3 Test Result

Below 1GHz Test Results:

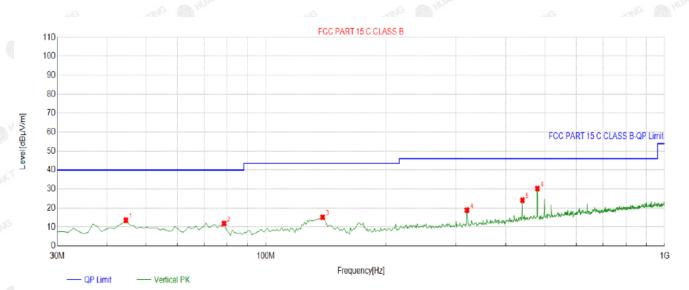
Antenna polarity: H



QP Detector

				PROPERTY.				Philosophy.		
3	Suspe	cted List								
	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	39.7097	-14.64	23.69	9.05	40.00	30.95	100	69	Horizontal
Ę	2	54.2743	-14.30	23.71	9.41	40.00	30.59	100	335	Horizontal
	3	102.8228	-15.41	25.37	9.96	43.50	33.54	100	121	Horizontal
	4	138.7487	-19.10	31.46	12.36	43.50	31.14	100	3	Horizontal
	5	339.7397	-11.64	30.17	18.53	46.00	27.47	100	140	Horizontal
	6	760.1702	-3.48	31.79	28.31	46.00	17.69	100	292	Horizontal

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level



QP Detector

Suspected List												
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	44.5646	-13.73	27.22	13.49	40.00	26.51	100	318	Vertical			
2	78.5485	-19.21	31.01	11.80	40.00	28.20	100	171	Vertical			
3	138.7487	-19.10	34.26	15.16	43.50	28.34	100	298	Vertical			
4	319.3493	-12.13	31.01	18.88	46.00	27.12	100	298	Vertical			
5	439.7498	-9.43	33.59	24.16	46.00	21.84	100	9	Vertical			
6	479.5596	-8.44	38.65	30.21	46.00	15.79	100	179	Vertical			

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
ESTING WK TESTING	TESTING - NYTESTING	TESTING-
(1) HO	Man Man	- OHO

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement



For 1GHz to 25GHz

Report No.: HK2108102791-E

CH Low (2402MHz) Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits MAN	Margin	AUAK TEST
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804	58.31	-3.65	54.66	74.00	-19.34	peak
4804	47.58	-3.65	43.93	54.00	-10.07	AVG
7206	56.97	-0.95	56.02	74.00	-17.98	peak
7206	42.52	-0.95	41.57	54.00	-12.43	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	。 (dBμV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4804	58.46	-3.65	54.81	74.00	-19.19	peak
4804	45.32	-3.65	41.67	54.00	-12.33	AVG
7206	55.34	-0.95	54.39	74.00	-19.61	peak
7206	42.24	-0.95	41.29	54.00	-12.71	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – I imit

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CH Middle (2440MHz) Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4880.00	58.62	-3.54	55.08	74.00	18.92	peak
4880.00	43.27	-3.54	39.73	54.00	-14.27	AVG
7320.00	56.12	-0.81	55.31	74.00	-18.69	peak
7320.00	42.35	-0.81	41.54	54.00	-12.46	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

Vertical:

ATT 100 TO 100 T		400s. VV	40% VV	ATTAL PARTY		ATTAL PARTY
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastan
(MHz)	(dBμV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4880.00	59.37	-3.54	55.83	74.00	-18.17	peak
4880.00	45.31	-3.54	41.77	54.00	-12.23	AVG
7320.00	55.19	-0.81	54.38	74.00	-19.62	peak
7320.00	43.08	-0.81	42.27	54.00	-11.73	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

CH High (2480MHz) Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datasta
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960	58.19	-3.43	54.76	74.00	-19.24	peak
4960	43.05	-3.44	39.61	54.00	-14.39	AVG
7440	56.87	-0.77	56.10	74.00	-17.90	peak
7440	42.38	-0.77	41.61	54.00	-12.39	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4960	58.71	-3.43	55.28	74.00	-18.72	peak
4960	45.38	-3.44	41.94	54.00 V	-12.06	AVG
7440	56.32	-0.77	55.55	74.00	-18.45	peak
7440	44.08	-0.77	43.31	54.00	-10.69	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak

detection at frequency above 1GHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental $73.16 \, \text{BuV/m}(PK \, \text{Value}) < 93.98 \, \text{(AV Limit)}$, at harmonic 53.20 dBuV/m(PK Value) < 54 dBuV/m(AV Limit), the Average Detected not need to completed.

(7)All modes of operation were investigated and the worst-case emissions are reported.

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Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	56.97	-5.81	51.16	74	-22.84	peak
2310.00	K TESTING	-5.81	I AK TESTING	54	1	AVG
2390.00	57.24	-5.84	51.4	74	-22.6	peak
2390.00	ING (I)	-5.84	J. G.	54	1	AVG
2400.00	58.16	-5.84	52.32	74	-21.68	peak
2400.00	1	-5.84	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2310.00	58.34	-5.81	52.53	74	-21.47	peak
2310.00	HUAKTES	-5.81	ALTESTIN I HUAKTE	54	HUALTESTIN	AVG
2390.00	59.37	-5.84	53.53	74	-20.47	peak
2390.00	1	-5.84	In I	54	1 mG	AVG
2400.00	57.88	-5.84	52.04	74	-21.96	peak
2400.00	1	-5.84	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

HUAK TESTING
Operation Mode: TX CH

Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

	The Man Man					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	56.72	-5.81	50.91	74	-23.09	peak
2483.50)	-5.81	1 0	54	1	AVG
2500.00	55.08	-6.06	49.02	74	-24.98	peak
2500.00	JAK TES	-6.06	NAK TES	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	56.34	-5.81	50.53	74	-23.47	peak
2483.50	IK TESTING	-5.81	/ LAK TESTING	54	1	AVG
2500.00	55.37	-6.06	49.31	74	-24.69	peak
2500.00	1	-6.06	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level – Limit

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



5.4 Maximum Output Power Measurement

5.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

5.4.2 Test procedure

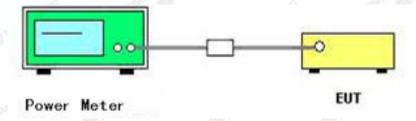
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF power meter with a thermocouple derector or equivalent. 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.

5.4.3 Deviation from standard

No deviation.

5.4.4 Test setup



5.4.5 Test results

Channel	Channel frequency (MHz)	Output power (dBm)	Limit (dBm)	Result
Low	2402	4.5	May Hope	Pass
Middle	2440	3.99	30	Pass
High	2480	4.64	AKTESTING	Pass

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5.5 Power Spectral Density

5.5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.5.2 Test procedure

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

Set the RBW = 3 kHz.

Set the VBW =10 KHz.

Set the span to 1.5 times the DTS channel bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum power level.

If measured value exceeds limit, reduce RBW(no less than 3 kHz)and repeat.

The resulting peak PSD level must be 8 dBm.

5.5.3 Deviation from standard

No deviation.

5.5.4 Test setup

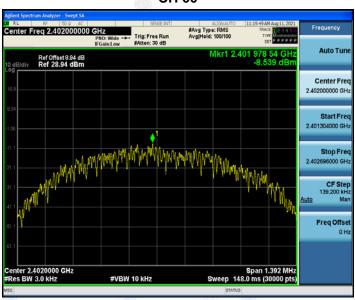




5.5.5 Test results

Channel	Channel frequency (MHz)	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
Low	2402	-8.54	HUAK TE	Pass
Middle	2440	-8.08	8.00	Pass
High	2480	-7.35	TESTING	Pass

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5.6 6dB Bandwidth

5.6.1 Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.6.2 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 RBW=100 KHz and VBW=300KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6.3 Deviation from standard

No deviation.

5.6.4 Test setup



5.6.5 Test result

Channel	Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
Low	2402	0.696	STING	Pass
Middle	2440	0.712	≥500	Pass
High	2480	0.688	JAKTESTI	Pass

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5.7 Occupied Bandwidth

5.7.1 Test procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recorded.

5.7.2 Deviation from standard

No deviation.

5.7.3 Test setup



5.7.4 Test result

N/A

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5.8 Band edge

5.8.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under FCC rules in section 5.8.1, the attenuation required shall be 30 dB instead of 20 dB.

5.8.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation, RBW ≥ 1% of the span, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold

5.8.3 Deviation from standard

No deviation.

5.8.4 Test setup

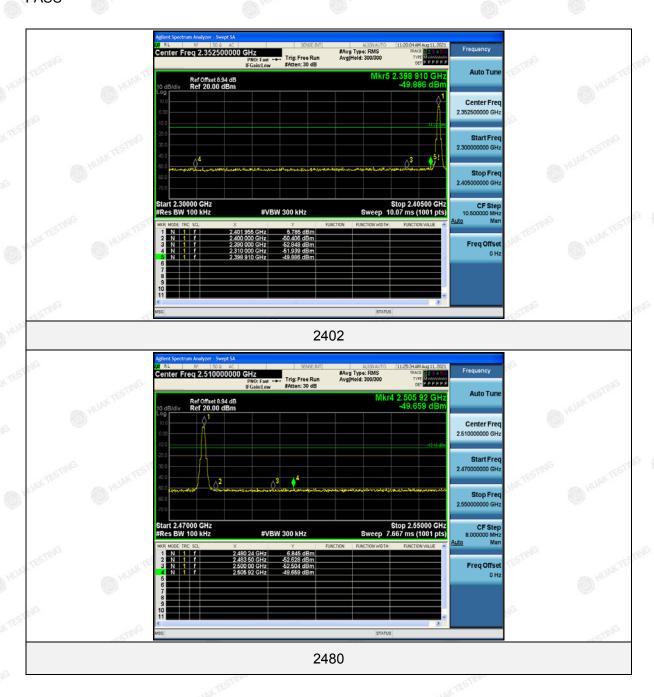


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5.8.5 Test results

PASS



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5.9 Conducted Spurious Emissions

5.9.1 Applied procedures / Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section (b)(3) of RSS 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. For below 30MHz,For 9KHz-150kHz,150K-10MHz,We use the RBW 1KHz,10KHz, So the limit need to calculated by "10lg(BW1/BW2)". for example For9KHz-150kHz,RBW 1KHz, The Limit= the highest

5.9.2 Test procedure

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b.Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation, RBW \geq 1% of the span, VBW \geq RBW, Sweep = auto,

Detector function = peak, Trace = max hold

emission level-20-10log(100/1)= the highest emission level-40.

5.9.3 Deviation from standard

No deviation.

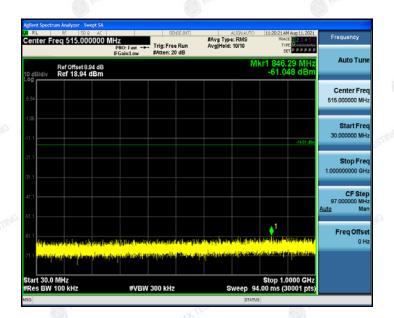
5.9.4 Test setup

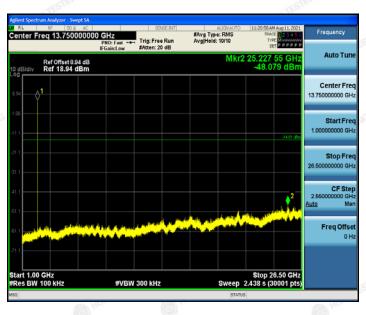


5.9.5 Test results

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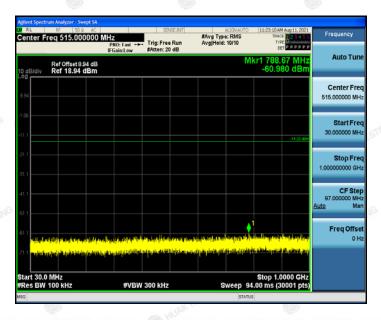


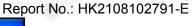




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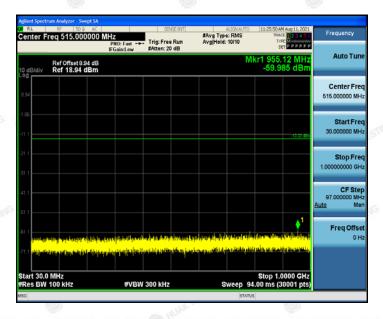




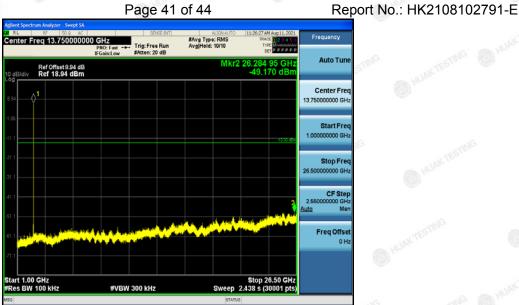


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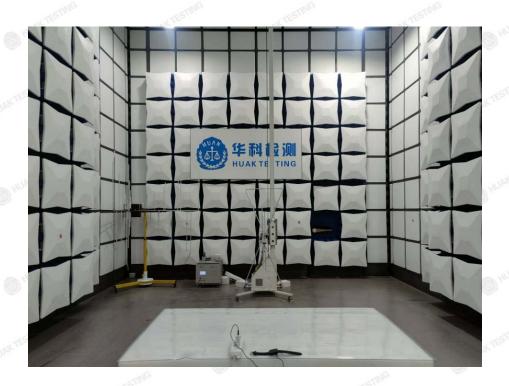
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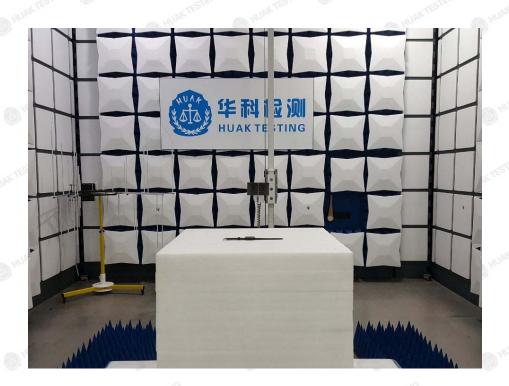




6 Test setup photo

Radiated Emissions

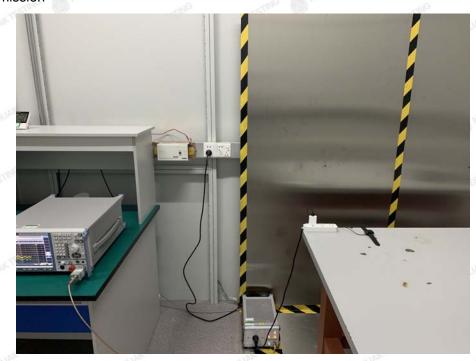




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Conducted Emission





7 PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

End of test report

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