

FCC Test Report

FCC PART 15 SUBPART C 15.247

Test report
On Behalf of
Li'ang jian kang ke ji bei jing you xian gong si
For
Treadmill

Model No.: F5

FCC ID: 2A7MN-F5

Prepared For: Li'ang jian kang ke ji bei jing you xian gong si

beijing, fengtaiqu xijubeijie 26haoyuan 2 haolou 1ceng 1-4(01), beijing, 100000

China

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

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Date of Test: May. 17, 2023 ~ Jun. 06, 2023

Date of Report: Jun. 06, 2023

Report Number: HK2305171947-E

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Test Result Certification

Applicant's name:	Li'ang jian kang ke ji bei jing you xian gong si
Address:	beijing, fengtaiqu xijubeijie 26haoyuan 2 haolou 1ceng 1-4(01), beijing, 100000 China
Manufacture's Name:	Li'ang jian kang ke ji bei jing you xian gong si
Address:	beijing, fengtaiqu xijubeijie 26haoyuan 2 haolou 1ceng 1-4(01), beijing, 100000 China
Product description	
Trade Mark:	JOROTO
Product name:	Treadmill
Model and/or type reference:	F5
Standards:	47 CFR FCC Part 15 Subpart C 15.247
the Shenzhen HUAK Testing Teo of the material. Shenzhen HUA	uced in whole or in part for non-commercial purposes as long as chnology Co., Ltd. is acknowledged as copyright owner and source K Testing Technology Co., Ltd. takes no responsibility for and will les resulting from the reader's interpretation of the reproduced do context.
Date of Test	
Date (s) of performance of tests	: May. 17, 2023 ~ Jun. 06, 2023
Date of Issue	: Jun. 06, 2023
Test Result	: Pass
	1 mm + Dian
Prepared	by:
Prepared O	Project Engineer
	NG TESTING
Reviewed	by: Zden HW

Project Supervisor

Approved by:

Technical Director

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jun. 06, 2023	Jason Zhou
V TESTING	E3TITUS TESTING	V ESTING	V TESTING

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



Test Summary

1.1 Test Description

A TEN	A TEN	y Tex
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

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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:

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

1.3 Information 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

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.



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2 General Information

2.1 General Description of EUT

Treadmill	THE WAR TEST	- HUAK T
F5	0	(6)
N/A	TESTING	
N/A	HUAN	AK TESTING
JOROTO O		O HOW
2402 MHz to 2480 MHz	AKTESTING	
2MHz	HO.	G 75
40 mar 18	HUAKTE	HUAK
GFSK	9	
V1.0		
V1.0	TESTING	. 1
PCB Antenna	HUAN	WHIDING THE PROPERTY OF THE PR
0dBi	, nJG	
AC 110V 60Hz	- JUAK TES I	TING
WAKTES .	(a)	HUAK TES
	F5 N/A N/A JOROTO 2402 MHz to 2480 MHz 2MHz 40 GFSK V1.0 V1.0 PCB Antenna 0dBi	F5 N/A N/A JOROTO 2402 MHz to 2480 MHz 2MHz 40 GFSK V1.0 V1.0 PCB Antenna 0dBi

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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2.2 Description of Test Conditions

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

For intentional radiators, measurements of the variation of the input power or the radiated 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.

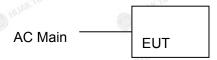
- (2) Frequency range of radiated measurements:
 The test range will be up to the tenth harmonic of the highest fundamental frequency.
- (3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to 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%.

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2.3 Description of Test Setup

Operation of EUT during testing:



The sample was placed (0.1m below 1GHz, 0.1m 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

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3 Equipments List for All Test Items

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
TESTING 1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 17, 2023	1 Year
3.	Receiver	R&S	ESR-7	HKE-010	Feb. 17, 2023	1 Year
4.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
6.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
7.	High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 17, 2023	1 Year
8.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Year
11.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
12.	Pre-amplifier	EMCI	EMC051845SE	HKE-015	Feb. 17, 2023	1 Year
13.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	1 Year
14.	High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 17, 2023	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	Feb. 17, 2023	1 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	Feb. 17, 2023	1 Year
23.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
24.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
25.	Power meter	Agilent	E4419B	HKE-085	Feb. 17, 2023	1 Year

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		. 1007		.4007		
26.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	1 Year
27.	RF Cable(below1GHz)	Times	9kHz-1GHz	HKE-117	Feb. 17, 2023	1 Year
28.	RF Cable(above 1GHz)	Times	1-40G	HKE-034	Feb. 17, 2023	1 Year
29.	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	Feb. 17, 2023	1 Year
30.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
31.	High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 17, 2023	1 Year

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4 Test Result

4.1 Antenna Requirement

4.1.1 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.

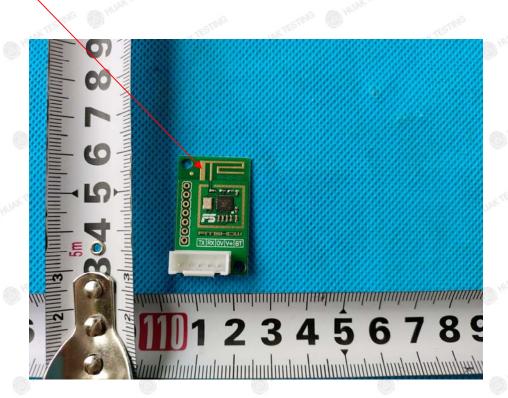
Refer to statement below for compliance.

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 PCB Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

4.1.2 EUT Antenna



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4.2 Conduction Emissions Measurement

4.2.1 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:

WAKTESTIL	- HUAY TESTIN	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.

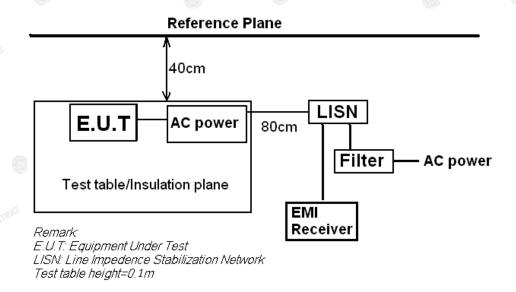
4.2.2 Test Procedure

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; 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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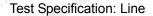


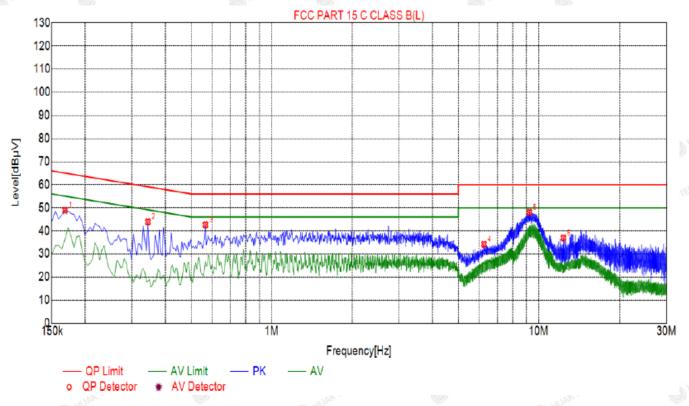
4.2.3 Test Setup



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4.2.4 Test Results





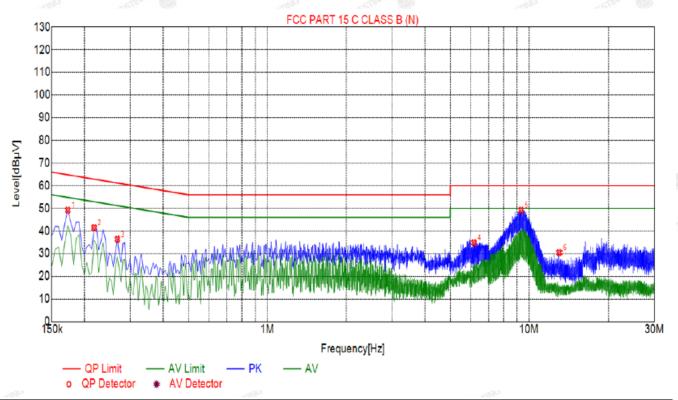
Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1680	48.92	20.01	65.08	16.16	38.91	PK	L	
2	0.3435	43.92	20.03	59.14	15.22	33.89	PK	L	
3	0.5640	42.64	20.06	56.00	13.36	32.58	PK	L	
4	6.2430	34.22	20.22	60.00	25.78	36.00	PK	L	
5	9.2400	48.06	20.10	60.00	11.94	52.96	PK	L	
6	12.4035	36.97	19.98	60.00	23.03	38.99	PK	L	

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	0.1725	49.20	20.04	64.91	15.71	38.16	PK	N	
2	0.2175	41.46	20.05	62.95	21.49	30.41	PK	N	
3	0.2670	36.37	20.03	61.26	24.89	25.34	PK	N	
4	6.1665	34.83	20.23	60.00	25.17	32.60	PK	N	
5	9.3390	49.20	20.10	60.00	10.80	50.10	PK	N	
6	13.0245	30.49	19.96	60.00	29.51	31.53	PK	N	

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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4.3 Radiated Emissions Measurement

4.3.1 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 license-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.

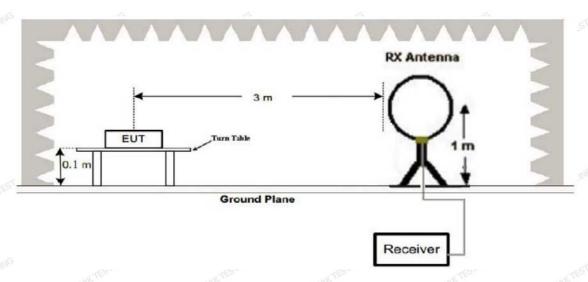
Radiated emission limits

	ALC: NO.		Account to the contract of the	Partition A.	
	Frequency (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)	
A	1.705-30 3		20log(30)+ 40log(30/3)	30	
	30-88	3	40.0	100	
45	«° 88-216	3 STING	43.5	150	
	216-960	3	46.0	200	
	Above 960	3	54.0	500	

4.3.2 Test Setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:



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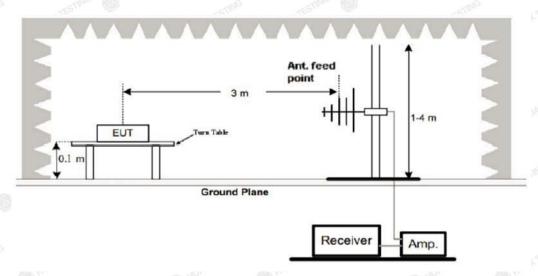
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



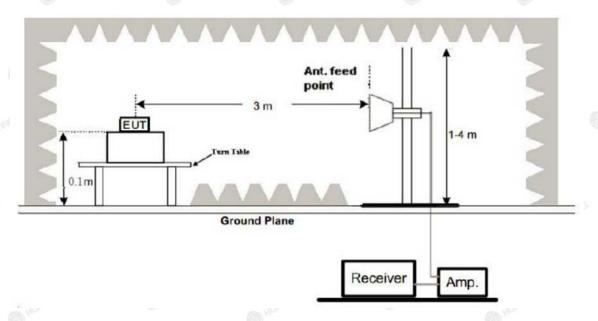
Report No.: HK2305171947



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:



Test Procedure

- 1. The EUT was placed on turn table which is 0.1m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 0.1m 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.

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4.3.3 Test Result

Below 1GHz Test Results:

All modes have been tested, only the worst mode is reflected.

Antenna polarity: H

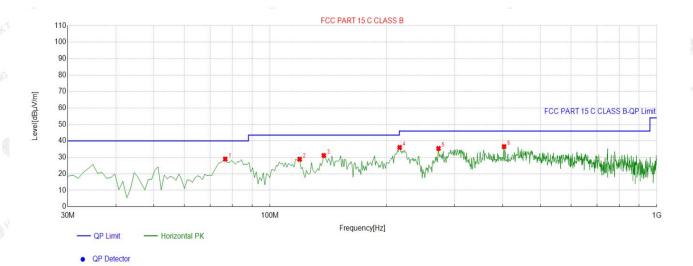
272.7427

6

-12.59

48.00

45.92



Suspected List											
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delerity		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	76.6066	-17.09	46.04	28.95	40.00	11.05	100	96	Horizontal		
2	119.3293	-15.50	44.34	28.84	43.50	14.66	100	24	Horizontal		
3	137.7778	-17.79	48.88	31.09	43.50	12.41	100	59	Horizontal		
4	216.4264	-14.39	50.39	36.00	46.00	10.00	100	11	Horizontal		
	NO. 1 2 3	NO. Freq. [MHz] 1 76.6066 2 119.3293 3 137.7778	NO. Freq. [dB] 1 76.6066 -17.09 2 119.3293 -15.50 3 137.7778 -17.79	NO. Freq. [MHz] Factor [dB] Reading [dBμV/m] 1 76.6066 -17.09 46.04 2 119.3293 -15.50 44.34 3 137.7778 -17.79 48.88	NO. Freq. [MHz] Factor [dB] Reading [dBμV/m] Level [dBμV/m] 1 76.6066 -17.09 46.04 28.95 2 119.3293 -15.50 44.34 28.84 3 137.7778 -17.79 48.88 31.09	NO. Freq. [MHz] Factor [dB] Reading [dBμV/m] Level [dBμV/m] Limit [dBμV/m] 1 76.6066 -17.09 46.04 28.95 40.00 2 119.3293 -15.50 44.34 28.84 43.50 3 137.7778 -17.79 48.88 31.09 43.50	NO. Freq. [MHz] Factor [dB] Reading [dBμV/m] Level [dBμV/m] Limit [dBμV/m] Margin [dBμV/m] 1 76.6066 -17.09 46.04 28.95 40.00 11.05 2 119.3293 -15.50 44.34 28.84 43.50 14.66 3 137.7778 -17.79 48.88 31.09 43.50 12.41	NO. Freq. [MHz] Factor [dB] Reading [dBμV/m] Level [dBμV/m] Limit [dBμV/m] Margin [dB] Height [cm] 1 76.6066 -17.09 46.04 28.95 40.00 11.05 100 2 119.3293 -15.50 44.34 28.84 43.50 14.66 100 3 137.7778 -17.79 48.88 31.09 43.50 12.41 100	NO. Freq. [MHz] Factor [dB] Reading [dBμV/m] Level [dBμV/m] Limit [dBμV/m] Margin [dB] Height [cm] Angle [°] 1 76.6066 -17.09 46.04 28.95 40.00 11.05 100 96 2 119.3293 -15.50 44.34 28.84 43.50 14.66 100 24 3 137.7778 -17.79 48.88 31.09 43.50 12.41 100 59		

35.41

36.54

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

46.00

10.59

9.46

100

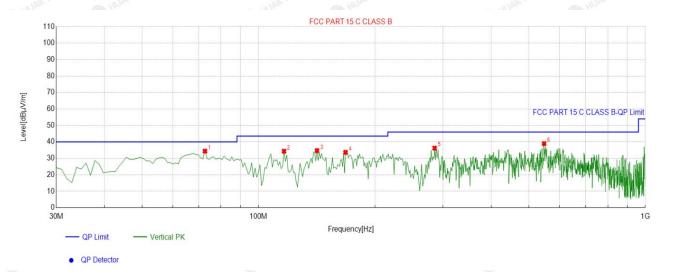
100

Horizontal

Horizontal

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Antenna polarity: V



Suspe	Suspected List											
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	72.7227	-16.35	50.73	34.38	40.00	5.62	100	14	Vertical			
2	116.4164	-15.11	49.45	34.34	43.50	9.16	100	5	Vertical			
3	141.6617	-18.11	52.80	34.69	43.50	8.81	100	1	Vertical			
4	167.8779	-16.99	50.64	33.65	43.50	9.85	100	1	Vertical			
5	285.3654	-12.56	48.78	36.22	46.00	9.78	100	1	Vertical			
6	547.5275	-6.24	45.15	38.91	46.00	7.09	100	1	Vertical			

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

Frequency (I	ИHz)	Level@3m (dBµV/m)	Limi	Limit@3m (dBµV/m)		
		G	, iG			
anti-	" IAK ES	_N G	MAKTESTIL			
- WAKTES!	O	- MAKTES!	(a)	- WAKTES!		
<u> </u>	-o.iG		a)G	(iii)		

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.

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For 1GHz to 25GHz

CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	0,
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804	57.03	-3.65	53.38	74.00	-20.62	peak
4804	46.94	-3.65	43.29	54.00	-10.71	AVG
7206	54.18	-0.95	53.23	74.00	-20.77	peak
7206	43.75	-0.95	42.80	54.00	-11.20	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	9
(MHz)	σ (dBμV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804	56.37	-3.65	52.72	74.00	-21.28	peak
4804	46.14	-3.65	42.49	54.00	-11.51	AVG
7206	53.95	-0.95	53.00	74.00	-21.00	peak
7206	44.26	-0.95 V	43.31	54.00	-10.69	AVG

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

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CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	HUAKT
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4880.00	55.37	-3.54	51.83	74.00	-22.17	peak
4880.00	46.41	-3.54	42.87	54.00	-11.13	AVG
7320.00	52.69	-0.81	51.88	74.00	-22.12	peak
7320.00	45.12	-0.81	44.31	54.00	-9.69	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4880.00	56.27	-3.54	52.73	74.00	-21.27	peak
4880.00	45.92	-3.54	42.38	54.00	-11.62	AVG
7320.00	53.17	-0.81	52.36	74.00	-21.64	peak
7320.00	43.69	-0.81	42.88	54.00	-11.12	AVG

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

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CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	D. ITE
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960	56.41	-3.43	52.98	74.00	-21.02	peak
4960	47.12	-3.44	43.68	54.00	-10.32	AVG
7440	52.39	-0.77	51.62	74.00	-22.38	peak
7440	46.21	-0.77	45.44	54.00	-8.56	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	HUAKTA
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960	55.46	-3.43	52.03	74.00	-21.97	peak
4960	44.92	-3.44	41.48	54.00	-12.52	AVG
7440	53.08	-0.77	52.31	74.00	-21.69	peak
7440	41.77	-0.77	41.00	54.00	-13.00	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 $53.20 \, \text{dBuV/m}(PK \, \text{Value}) < 54 \, \text{dBuV/m}(AV \, \text{Limit)}$, the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.



Report No.: HK2305171947

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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	56.32	-5.81	50.51	74 MARCA	-23.49	peak
2310.00	1	-5.81	(a) 11	54	1 0 °	AVG
2390.00	55.79	-5.84	49.95	74	-24.05	peak
2390.00	HUAK TEST	-5.84	ESTING	54	MAK TESTING	AVG
2400.00	53.14	-5.84	47.3	74	-26.7	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)	Туре
2310.00	55.49	-5.81	49.68	74	-24.32	peak
2310.00	1	-5.81	/	54	1	AVG
2390.00	54.06	-5.84	48.22	74	-25.78	peak
2390.00	1	-5.84	10	54	1	AVG
2400.00	53.71	-5.84	47.87	74	-26.13	peak
2400.00	TEST /	-5.84	HARTEST	54	1	AVG

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

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Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	54.26	-5.81	48.45	74	-25.55	peak
2483.50	TESTING /	-5.81	MAKTESTING	54	1	AVG
2500.00	52.79	-6.06	46.73	74	-27.27	peak
2500.00	Inc any	-6.06	1	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	55.17	-5.81	49.36	74	-24.64	peak
2483.50	1	-5.81	/	54	1	AVG
2500.00	52.95	-6.06	46.89	74	-27.11	peak
2500.00	1	-6.06	D HO.	54	HIJAN 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.

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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4.4 Maximum Output Power Measurement

4.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 Test Procedure

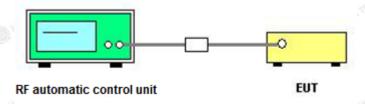
The maximum peak conducted output power may be measured using a broadband peak RF automatic control unit. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF automatic control unit with a thermocouple detector or equivalent. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

4.4.3 Deviation from Standard

No deviation.

4.4.4 Test Setup



4.4.5 Test Results

Channel	Channel frequency (MHz)	Output power (dBm)	Cable loss	Maximum Output power (dBm)	Limit (dBm)	Result
Low	2402	-1.36	0.8	-0.56	(1) HO	Pass
Middle	2440	-0.06	0.8	0.74	30.00	Pass
High	2480	1.05	0.8	1.85		Pass

Note: Maximum Output power (dBm)= Output Power(dBm)+ Cable loss

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4.5 Power Spectral Density

4.5.1 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.

4.5.2 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.

4.5.3 Deviation from Standard

No deviation.

4.5.4 Test Setup

EUT SPECTRUM ANALYZER

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4.5.5 Test Results

Channel	Channel frequency (MHz)	Result (dBm/3kHz)	Offset	Test Result (dBm/3kHz)	Limit (dBm/3KHz)	Result
Low	2402	-26.54	9.44	-17.10	(a) H3122	Pass
Middle	2440	-24.99	9.44	-15.55	8.00	Pass
High	2480	-23.91	9.44	-14.47	TESTING	Pass

Note: PSD Test Result (dBm/3kHz)= Result +Offset

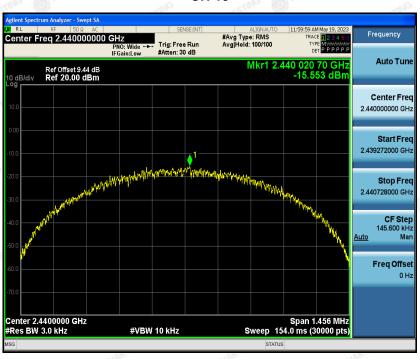
Offset= Instrument attenuation +cable loss=8.64 dB +0.8 dB =9.44dB

CH 00



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CH 19



CH 39



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Report No.: HK2305171947-E



4.6 6db Bandwidth

4.6.1 Limit

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

4.6.2 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=300 KHz. 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.

4.6.3 Deviation from Standard

No deviation.

4.6.4 Test Setup

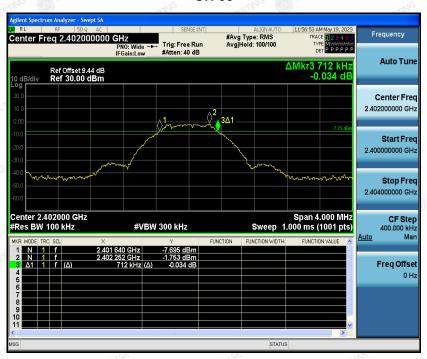


4.6.5 Test Result

Channel	Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
Low	2402	0.712	MAKTESTI	Pass
Middle	2440	0.728	≥500	Pass
High	2480	0.692	O HUM	Pass

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CH 19



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4.7 Occupied Bandwidth

4.7.1 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.

4.7.2 Deviation from Standard

No deviation.

4.7.3 Test Setup



4.7.4 Test Result

N/A

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4.8 Band Edge

4.8.1 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.

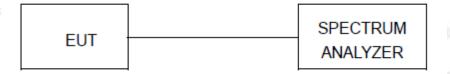
4.8.2 Test Procedure

- 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 band edge, 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.

4.8.3 Deviation from Standard

No deviation.

4.8.4 Test Setup



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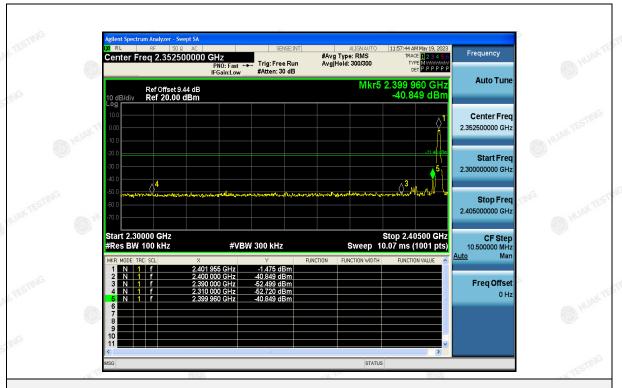


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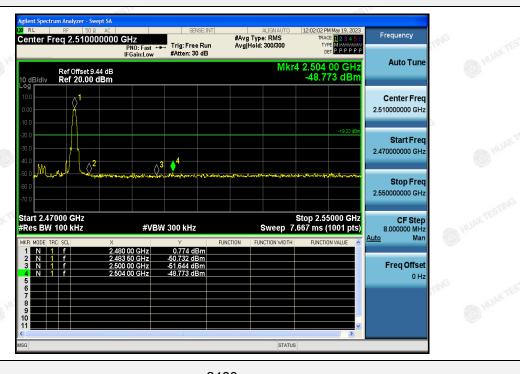


4.8.5 Test Results

PASS







2480

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4.9 Conducted Spurious Emissions

4.9.1 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

4.9.2 **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 band edge, 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.

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

4.9.3 Deviation from Standard

No deviation.

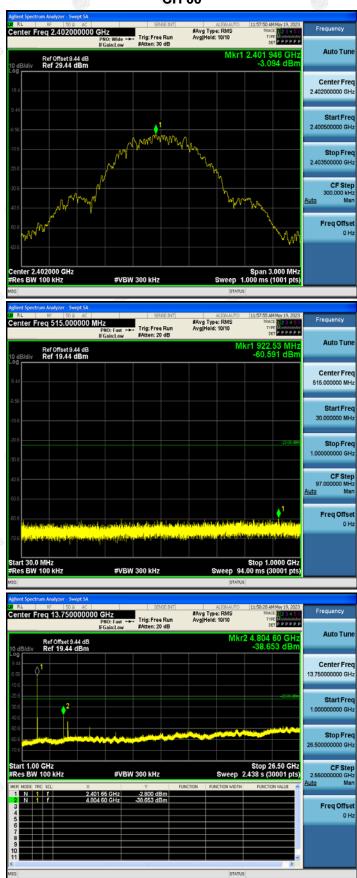
Test Setup



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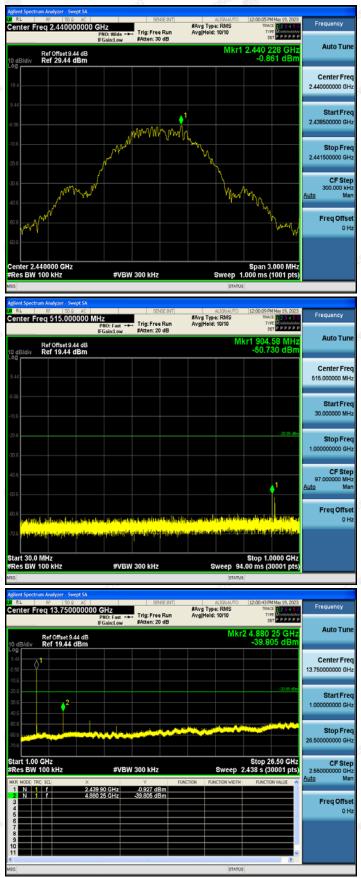
4.9.5 Test Results

CH 00



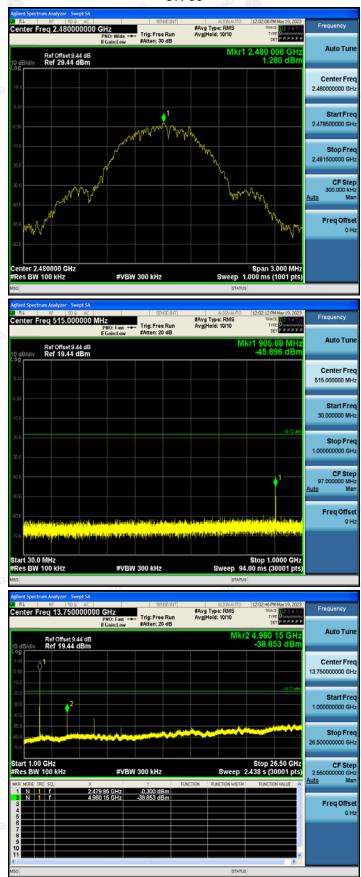
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5 Test Setup Photo

Radiated Emissions

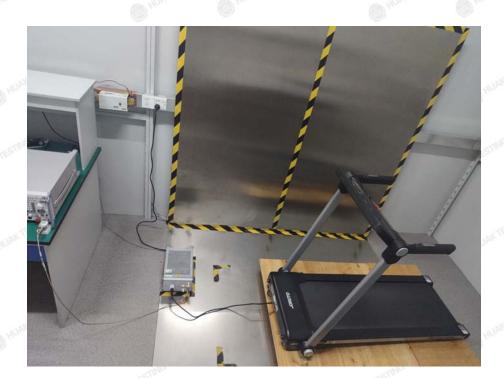




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Conducted Emission



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6 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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