



RADIO TEST REPORT

For

Shenzhen Huafurui Technology Co., Ltd

Tablet

Test Model: TAB 50

Prepared for : Shenzhen Huafurui Technology Co., Ltd
Address : Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : June 25, 2023
Number of tested samples : 2
Serial number : Prototype
Date of Test : June 25, 2023 ~ July 07, 2023
Date of Report : July 10, 2023



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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RADIO TEST REPORT ETSI EN 300 440 V2.2.1 (2018-07) Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum	
Report Reference No.	: LCSA062123036EG
Date of Issue.....	: July 10, 2023
Testing Laboratory Name.....	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address.....	: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure....	: Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	: Shenzhen Huafurui Technology Co., Ltd
Address.....	: Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China
Test Specification Standard..... : ETSI EN 300 440 V2.2.1 (2018-07) Test Report Form No. : LCSEMC-1.0 TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd. Master TRF..... : Dated 2017-06	
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Test Item Description.....	: Tablet
Trade Mark.....	: CUBOT
Test Model.....	: TAB 50
Ratings.....	: For AC Adapter Input: 100-240V~, 50/60Hz, 0.8A Adapter Output: 5.0V=3.0A OR 9.0V=2.0A OR 12.0V=1.5A 18.0W DC 3.85V by Rechargeable Li-ion Battery, 7500mAh
Result	: Positive

Compiled by:

Kevin Huang

Kevin Huang/ Administrator

Supervised by:

Cary Luo

Cary Luo/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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RADIO -- TEST REPORT

Test Report No. : LCSA062123036EGJuly 10, 2023
Date of issue

Test Model..... : TAB 50

EUT..... : Tablet

Applicant..... : Shenzhen Huafurui Technology Co., Ltd

Address..... : Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Telephone..... : /

Fax..... : /

Manufacturer..... : Shenzhen Huafurui Technology Co., Ltd

Address..... : Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Telephone..... : /

Fax..... : /

Factory..... : Shenzhen Huafurui Technology Co., Ltd

Address..... : Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Telephone..... : /

Fax..... : /

Test Result**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	July 10, 2023	Initial Issue	---





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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	: Tablet
Test Model	: TAB 50
Power Supply	: For AC Adapter Input: 100-240V~, 50/60Hz, 0.8A Adapter Output: 5.0V=3.0A OR 9.0V=2.0A OR 12.0V=1.5A 18.0W DC 3.85V by Rechargeable Li-ion Battery, 7500mAh
Hardware Version	: T2203G-MC-V1.1
Software Version	: CUBOT_TAB 50_P051_V01
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0 (BDR/EDR) 40 channels for Bluetooth V5.0 (BT LE)
Channel Spacing	: 1MHz for Bluetooth V5.0 (BDR/EDR) 2MHz for Bluetooth V5.0 (BT LE)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (BDR/EDR) GFSK for Bluetooth V5.0 (BT LE)
Bluetooth Version	: V5.0
Antenna Description	: PIFA Antenna, 0.26dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2472MHz
Channel Spacing	: 5MHz
Channel Number	: 13 Channel for 20MHz bandwidth(2412~2472MHz) 9 channels for 40MHz bandwidth(2422~2462MHz)
Modulation Type	: 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 0.26dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 channels for 20MHz bandwidth(5180~5240MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	: 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 0.38dBi(Max.)
WIFI(5.8G Band)	:



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Frequency Range : 5745MHz~5825MHz
Channel Number : 5 channels for 20MHz bandwidth(5745~5825MHz)
2 channels for 40MHz bandwidth(5755~5795MHz)
1 channels for 80MHz bandwidth(5775MHz)
Modulation Type : 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description : PIFA Antenna, 0.38dBi(Max.)

2G :

Support Band : ☒ GSM 900 (EU-Band) ☒ DCS 1800 (EU-Band)
☒ GSM 850 (U.S.-Band) ☒ PCS 1900 (U.S.-Band)

Release Version : R99

GPRS Class : Class 12

EGPRS Class : Class 12

Uplink : GSM 900: 880MHz~915MHz
DCS 1800: 1710MHz~1785MHz

Downlink : GSM 900: 925MHz~960MHz
DCS 1800: 1805MHz~1880MHz

Type Of Modulation : GMSK for GSM/GPRS; GMSK/8PSK for EGPRS

Antenna Description : PIFA Antenna
-0.71dBi (max.) For GSM 900
0.7dBi (max.) For DCS 1800

Power Class : GSM 900: Level 5, DCS 1800: Level 0
EGPRS 900: Level 8, EGPRS 1800: Level 2

3G :

Support Band : ☐ WCDMA Band II (U.S.-Band)
☐ WCDMA Band V (U.S.-Band)
☐ WCDMA Band IV (U.S.-Band)
☒ WCDMA Band I (EU-Band)
☒ WCDMA Band VIII (EU-Band)

Release Version : R8

Uplink : WCDMA Band I: 1920MHz~1980MHz
WCDMA Band VIII: 880MHz~915MHz

Downlink : WCDMA Band I: 2110MHz~2170MHz
WCDMA Band VIII: 925MHz~960MHz

Type Of Modulation : QPSK/16QAM

Antenna Description : PIFA Antenna
0.83dBi (max.) For WCDMA Band I
0.71dBi (max.) For WCDMA Band VIII

Power Class : Level 3

LTE :

Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street,
Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Support Band : ☒ E-UTRA Band 1(EU-Band)
☒ E-UTRA Band 3(EU-Band)
☒ E-UTRA Band 7(EU-Band)
☒ E-UTRA Band 8(EU-Band)
☒ E-UTRA Band 20(EU-Band)

LTE Release Version : R9

FDD Band : Uplink: E-UTRA Band 1: 1920MHz~1980MHz
E-UTRA Band 3: 1710MHz~1785MHz
E-UTRA Band 7: 2500MHz~2570MHz
E-UTRA Band 8: 880MHz~915MHz
E-UTRA Band 20: 832MHz~862MHz
Downlink: E-UTRA Band 1: 2110MHz~2170MHz
E-UTRA Band 3: 1805MHz~1880MHz
E-UTRA Band 7: 2620MHz~2690MHz
E-UTRA Band 8: 925MHz~960MHz
E-UTRA Band 20: 791MHz~821MHz

Type Of Modulation : QPSK/16QAM

Antenna Description : PIFA Antenna
0.83dBi (max.) For E-UTRA Band 1
0.7dBi (max.) For E-UTRA Band 3
1.16dBi (max.) For E-UTRA Band 7
-0.71dBi (max.) For E-UTRA Band 8
-1.31dBi (max.) For E-UTRA Band 20

Power Class : Class 3

GPS Receiver :

Receive Frequency : 1575.42MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0.53dBi(Max.)

GLONASS Receiver :

Receive Frequency : 1602.5625MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0.53dBi(Max.)

Galileo Receiver :

Receive Frequency : 1589.74MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0.53dBi(Max.)



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1.2. Objective

This Type approval report is prepared on behalf of **Shenzhen Huafurui Technology Co., Ltd** in accordance with ETSI EN 300 440 V2.2.1 (2018-07), Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum.

The objective is to determine compliance with ETSI EN 300 440 V2.2.1 (2018-07).

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

1.4. Test Methodology

All measurements contained in this report were conducted with ETSI EN 300 440 V2.2.1 (2018-07).

1.5. Facilities

All measurement facilities used to collect the measurement data are located at Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 32.

1.6. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
ShenZhen HuaJin Electronics Co., Ltd	AC Adapter	HJ-FC001K7-EU	---	CE

1.7. External I/O Cable

I/O Port Description	Quantity	Cable
Type-C USB Port	1	USB Cable: 1.0m, unshielded
Headphone Port	1	Headphone Cable: 1.2m, unshielded





1.8. Laboratory Accreditations And Listings

Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.

1.9. Measurement Uncertainty

Test Item	Uncertainty
Radio Frequency	0.9×10^{-4}
Total RF Power, Conducted	1.0 dB
RF Power Density, Conducted	1.8 dB
Spurious Emissions, Conducted	1.8 dB
All Emissions, Radiated	3.1 dB
Temperature	0.5°C
Humidity	1 %
DC And Low Frequency Voltages	1 %

1.10. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	22.3
Humidity (%RH)	25-75	52.8
Barometric pressure (mbar)	860-1060	950-1000





1.11. Description Of Test Modes

LCS has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11a
Mode 2: Transmit by 802.11n(20MHz)
Mode 3: Transmit by 802.11n(40MHz)
Mode 4: Transmit by 802.11ac(20MHz)
Mode 5: Transmit by 802.11ac(40MHz)
Mode 6: Transmit by 802.11ac(80MHz)
Mode 7: Receive by 802.11a
Mode 8: Receive by 802.11n(20MHz)
Mode 9: Receive by 802.11n(40MHz)
Mode 10: Receive by 802.11ac(20MHz)
Mode 11: Receive by 802.11ac(40MHz)
Mode 11: Receive by 802.11ac(80MHz)

Note:

- (1) For portable device, radiated spurious emission was verified over X, Y, Z Axis, and shown the worst case on this report.
- (2) Regard to the frequency band operation for systems using Wide Band modulation: the lowest, middle, highest frequency channel for conducted test, and the lowest, highest frequency channel for radiation spurious test.
- (3) The extreme test condition for voltage and temperature were declared by the manufacturer.

***Note: The EUT was programmed to transmit continuously during testing (duty cycle = 100%).

1.12. Test Conditions

Conditions	Temperature	Voltage
Normal	21-25℃	DC 3.85V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-10℃	DC 3.47V
Low extreme Temperature/High extreme Voltage (TL/VH);	-10℃	DC 4.4V
High extreme Temperature/Low extreme Voltage (TH/VL);	40℃	DC 3.47V
High extreme Temperature/High extreme Voltage (TH/VH).	40℃	DC 4.4V

Note1: The High Voltage DC 4.4V and Low Voltage DC 3.47V was declared by manufacturer





2. SYSTEM TEST CONFIGURATION

2.1. Justification

The system was configured for testing in engineering mode.

2.2. EUT Exercise Software

N/A.

2.3. Special Accessories

N/A.

2.4. Block Diagram/Schematics

Please refer to the related document.

2.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

2.6. Configuration of Test Setup

Please refer to the test setup photo.





3. SUMMARY OF TEST RESULTS

RULES ETSI EN 300 440 V2.2.1 (2018-07)	DESCRIPTION OF TEST	RESULT
§ 4.2.2	Equivalent isotropically radiated power (EIRP)	Compliant
§ 4.2.3	Permitted range of operating frequencies	Compliant
§ 4.2.4	Unwanted emissions in the spurious domain	Compliant
§ 4.2.5	Duty cycle	Compliant
§ 4.3.3	Adjacent channel selectivity	Compliant
§ 4.3.4	Blocking or desensitization	Compliant
§ 4.3.5	Spurious radiations	Compliant
§ 4.4	Spectrum access techniques	N/A

Note: "N/A" means this test item is not applicable.





4. TEST RESULTS

4.1. Equivalent Isotropically Radiated Power (EIRP)

4.1.1 Definition and Limit

The e.i.r.p. is defined as the maximum radiated power of the transmitter and its antenna .
The transmitter maximum e.i.r.p. under normal and extreme test conditions shall not exceed the values given in following table.

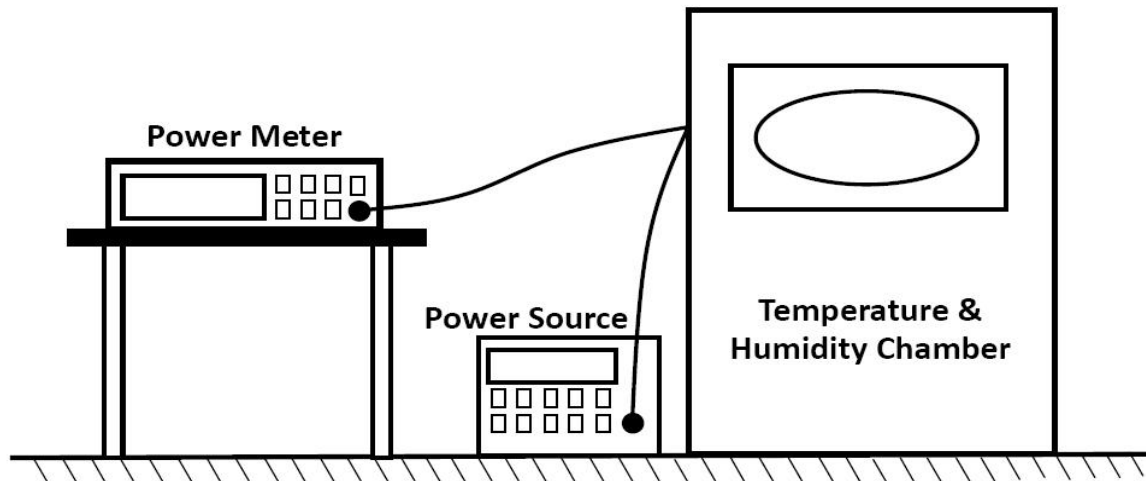
Entry	Frequency Bands	Power	Application	Notes
1	2 400 MHz to 2 483,5 MHz	10 mW e.i.r.p.	Non-specific short range devices	
2	2 400 MHz to 2 483,5 MHz	25 mW e.i.r.p.	Radiodetermination devices	
3	(a) 2 446 MHz to 2 454 MHz	500 mW e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and Annex G
4	(b) 2 446 MHz to 2 454 MHz	4 W e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and Annex G
5	5 725 MHz to 5 875 MHz	25 mW e.i.r.p.	Non-specific short range devices	
6	9 200 MHz to 9 500 MHz	25 mW e.i.r.p.	Radiodetermination devices	
7	9 500 MHz to 9 975 MHz	25 mW e.i.r.p.	Radiodetermination devices	
8	10,5 GHz to 10,6 GHz	500 mW e.i.r.p.	Radiodetermination devices	
9	13,4 GHz to 14,0 GHz	25 mW e.i.r.p.	Radiodetermination devices	
10	17,1 GHz to 17,3 GHz	400 mW e.i.r.p.	Radiodetermination devices	See Annex H
11	24,00 GHz to 24,25 GHz	100 mW e.i.r.p.	Non-specific short range devices and radiodetermination devices	
NOTE: The spectrum ranges in some entries are not harmonised throughout all EU territory, specifically entries 4, 9, and 11 have been identified as such. Implementers are cautioned to refer to CEPT/ERC Recommendation 70-03 [i.2] as well as current National Radio plans to verify acceptance within intended regions of use.				





4.1.2 Test Procedure

The equipment shall be able to operate in a continuous transmit mode for testing purposes. Please refer to ETSI EN 300 440 V2.2.1 (2018-07) clause 4.2.2.3 for the measurement method.



4.1.3 Test Result

Please refer to the Appendix I.1 for 5.8G WIFI RF Test Data.



4.2. Permitted Range of Operating Frequencies

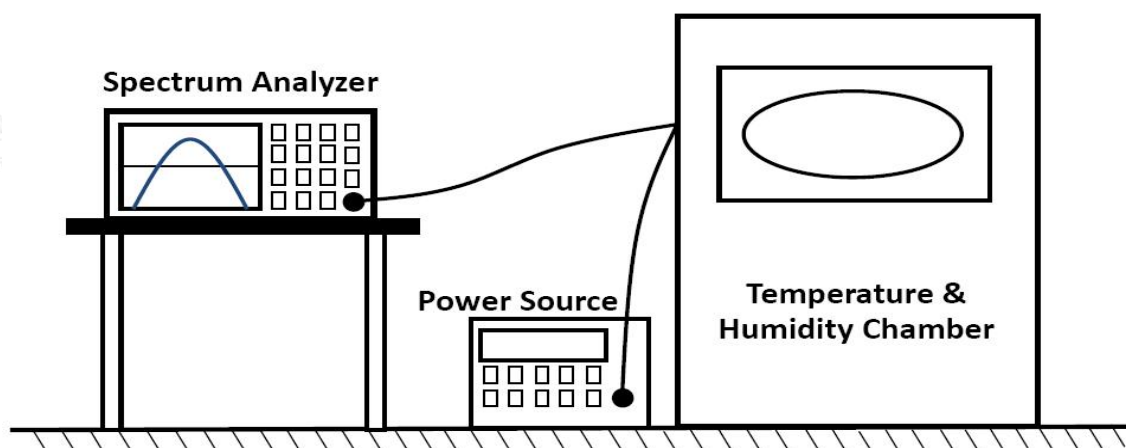
4.2.1 Definition and Limit

The permitted range of operating frequencies includes all frequencies on which the equipment may operate within an assigned frequency band. The operating frequency range shall be declared by the manufacturer.

The width of the power envelope is $f_H - f_L$ for a given operating frequency. In equipment that allows adjustment or selection of different operating frequencies, the power envelope takes up different positions in the allowed band. The frequency range is determined by lowest value of f_L and the highest value of f_H resulting from the adjustment of the equipment to the lowest and highest operating frequencies.

4.2.2 Test Procedure

The equipment shall be able to operate in a continuous transmit mode for testing purposes. Please refer to ETSI EN 300 440 V2.2.1 (2018-07) clause 4.2.3.3 for the measurement method.



4.2.3 Test Result

Please refer to the Appendix I.2 for 5.8G WIFI RF Test Data.





4.3. Duty Cycle

4.3.1 Definition and Limit

Duty cycle is the ratio expressed as a percentage, of the cumulative duration of

transmissions T_{on_cum} within an observation interval T_{obs} .
observation bandwidth F_{obs} .

$$DC = \left(\frac{T_{on_cum}}{T_{obs}} \right) F_{obs}$$

Unless otherwise specified, T_{obs} is 1 hour and the observation bandwidth F_{obs} is the operational frequency band. Each transmission consists of an RF emission, or sequence of RF emissions separated by intervals $< T_{Dis}$.

An equipment may operate on several bands simultaneously (i.e. multi transmissions), Duty Cycle of each band applies to each transmission.

In case of a multicarrier modulation in a band, the duty cycle applies to the whole signal used for a transmission (e.g. OFDM).

It has to be noted that on some bands Duty Cycle value may depend on the presence of a primary radio service.

Equipment may be triggered manually, by internal timing or by external stimulus. Depending on the method of triggering the timing may be predictable or random.

The following Table defines the maximum duty cycle within a 1 hour period.

Frequency Band	Duty cycle	Application	Notes
2 400 MHz to 2 483,5 MHz	No Restriction	Generic use	
2 400 MHz to 2 483,5 MHz	No Restriction	Radiodetermination	
(a) 2 446 MHz to 2 454 MHz	No Restriction	RFID	Limits shown in Annex G shall apply
(b) 2 446 MHz to 2 454 MHz	$\leq 15 \%$	RFID	Limits shown in Annex G shall apply
5 725 MHz to 5 875 MHz	No Restriction	Generic use	
9 200 MHz to 9 500 MHz	No Restriction	Radiodetermination	
9 500 MHz to 9 975 MHz	No Restriction	Radiodetermination	
10,5 GHz to 10,6 GHz	No Restriction	Radiodetermination	
13,4 GHz to 14,0 GHz	No Restriction	Radiodetermination	
17,1 GHz to 17,3 GHz	DAA or equivalent techniques	Radiodetermination, limited to GBSAR detecting and movement and alert applications	Limits shown in Annex I shall apply
24,00 GHz to 24,25 GHz	No Restriction	Generic use and for radiodetermination	

NOTE: The spectrum ranges in some entries are not harmonised throughout all EU territory, specifically entries 4, 9, and 11 have been identified as such. Implementers are cautioned to refer to CEPT/ERC Recommendation 70-03 [i.2] as well as current National Radio plans to verify acceptance within intended regions of use.

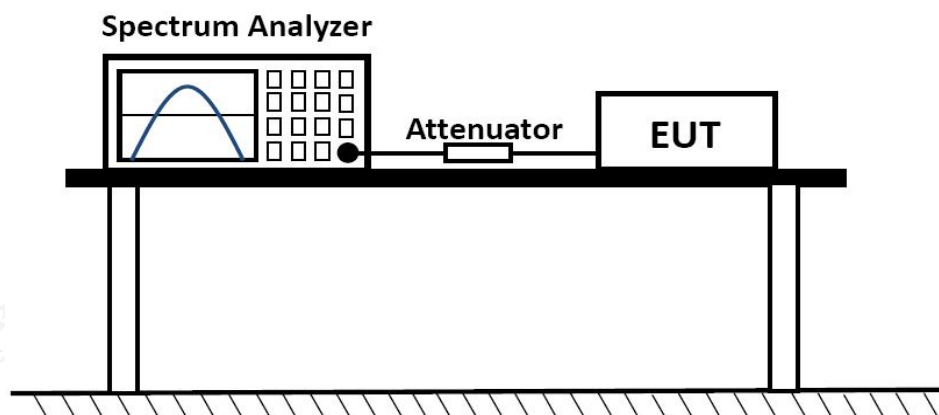
For devices with a 100 % duty cycle transmitting an unmodulated carrier most of the time, a time-out shut-off facility shall be implemented in order to improve the efficient use of spectrum.





4.3.2 Test Procedure

Please refer to ETSI EN 300 440 V2.2.1 (2018-07) clause 4.2.5.3 for the measurement method.



4.3.3 Test Result

The EUT was programmed to transmit continuously during testing (duty cycle = 100%).





4.4. Unwanted Emissions in the Spurious Domain

4.4.1 Definition and Limit

Unwanted emissions in the spurious domain (spurious emissions) are those at frequencies beyond the limit of 250 % of the occupied bandwidth above and below the centre frequency of the emission. The occupied bandwidth is measured as declared by the manufacturer. The spurious emissions of the transmitter shall not exceed the values in following tables:

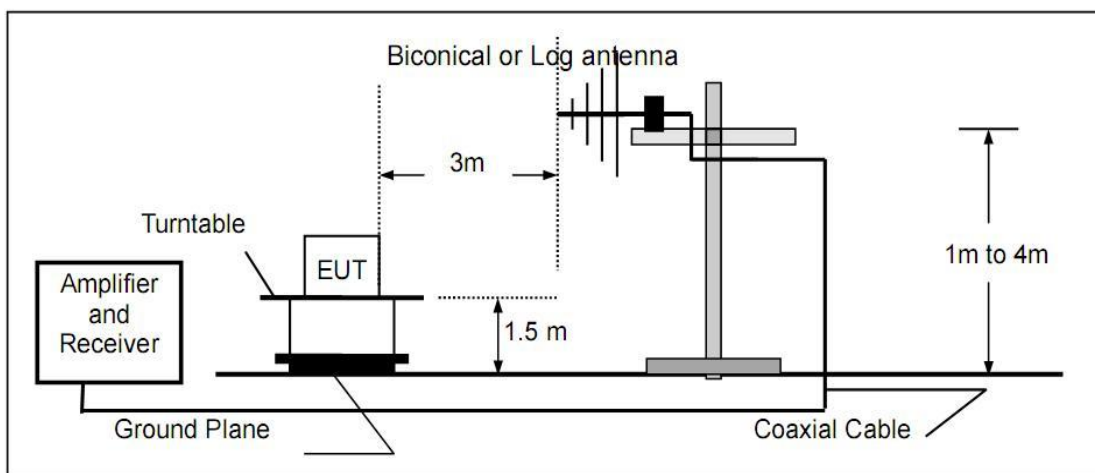
Table: spurious emissions

Frequency ranges	47 MHz to 74 MHz 87,5 MHz to 108 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies $\leq 1\,000\text{ MHz}$	Frequencies $> 1\,000\text{ MHz}$
State			
Operating	4 nW	250 nW	1 μW
Standby	2 nW	2 nW	20 nW

4.4.2 Test Procedure

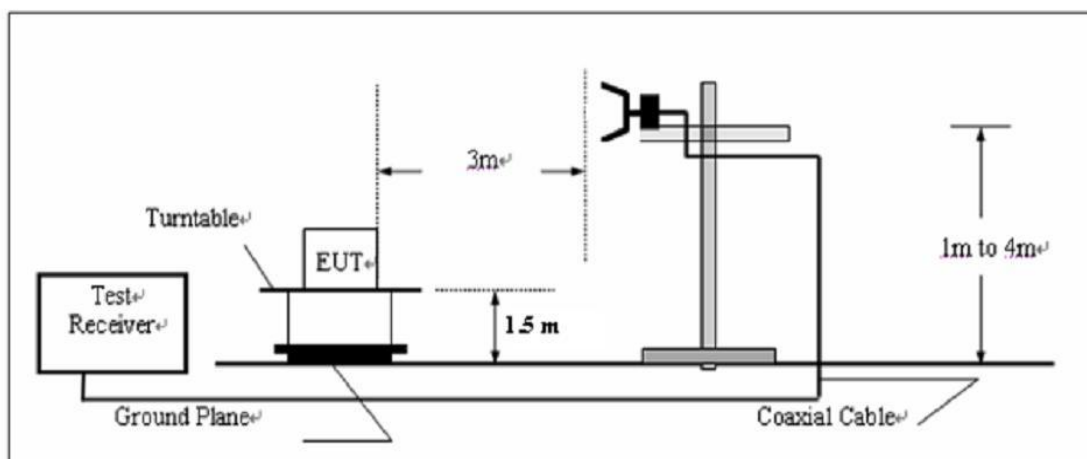
Please refer to ETSI EN 300 440 V2.2.1 (2018-07) clause 4.2.4.3 for the measurement method.

Radiated Below 1GHz



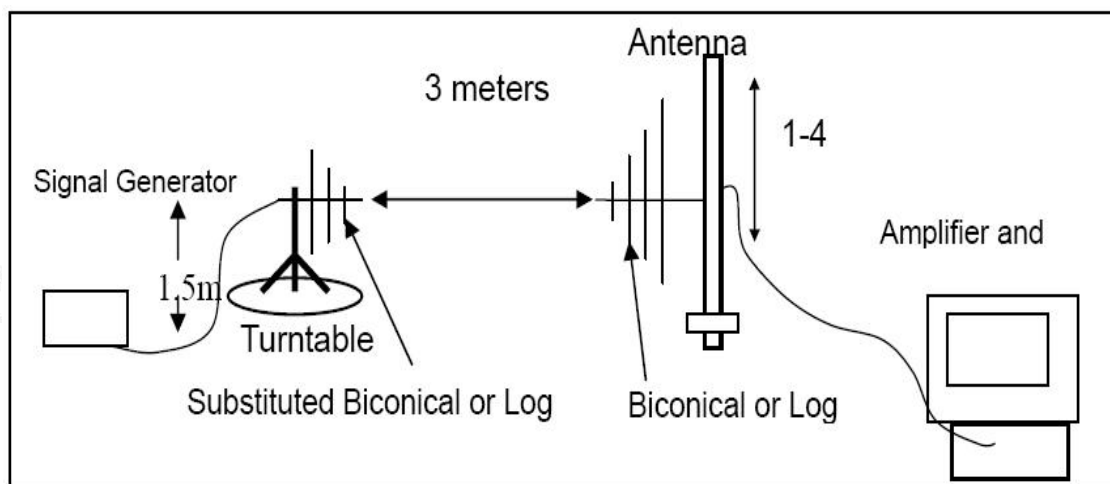
Radiated Above 1GHz



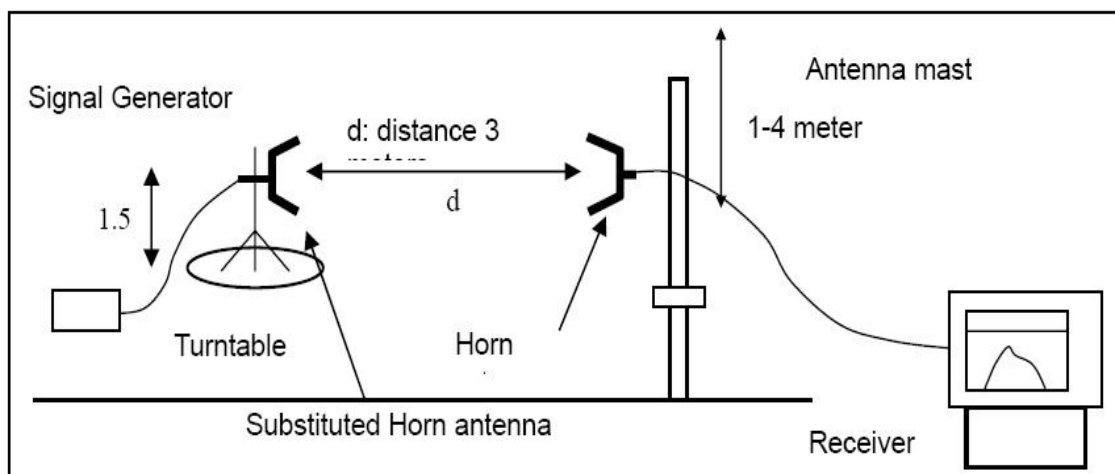


Substitution Method: (Radiated Emissions)

Radiated Below 1GHz



Radiated Above 1 GHz



4.4.3 Test Result

Please refer to the Appendix I.3 for 5.8G WIFI RF Test Data.



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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4.5. Adjacent Channel Selectivity

4.5.1 Definition and Limit

The adjacent channel selectivity is a measure of the capability of the receiver to operate satisfactorily in the presence of an unwanted signal that differs in frequency from the wanted signal by an amount equal to the adjacent channel separation for which the equipment is intended.

The adjacent channel selectivity of the equipment under specified conditions shall not be less than $-30 \text{ dBm} + k$. The correction factor, k , is as follows:

$$k = -20 \log f - 10 \log BW$$

Where:

- f is the frequency in GHz;
- BW is the channel bandwidth in MHz.

The factor k is limited within the following:

- $-40 \text{ dB} < k < 0 \text{ dB}$.

4.5.2 Test Procedure

Please refer to ETSI EN 300 440 clause 4.3.3.3 for the measurement method.

4.5.3 Test Result

Please refer to the Appendix I.4 for 5.8G WIFI RF Test Data.





4.6. Blocking or Desensitization

4.6.1 Definition and Limit

Blocking is a measure of the capability of the receiver to receive a wanted modulated signal without exceeding a given degradation due to the presence of an unwanted input signal at any frequencies other than those of the spurious responses or the occupied bandwidth.

The blocking level, for any frequency within the specified ranges, shall not be less than the values given in the following table, except at frequencies on which spurious responses are found.

Receiver category	Limit
1	-30 dBm + k
2	-45 dBm + k
3	-60 dBm + k

The correction factor, k, is as follows:

$$k = -20 \log f - 10 \log BW$$

Where:

- f is the frequency in GHz;
- BW is the channel bandwidth in MHz.

The factor k is limited within the following:

$$-40 \text{ dB} < k < 0 \text{ dB}$$

4.6.2 Test Procedure

Please refer to ETSI EN 300 440 clause 4.3.4.3 for the measurement method.

4.6.3 Test Result

Please refer to the Appendix I.5 for 5.8G WIFI RF Test Data.





4.7. Spurious Radiations

4.7.1 Definition and Limit

Spurious radiations from the receiver are components at any frequency, radiated by the equipment and antenna.

These requirements do not apply to receivers used in combination with permanently co-located transmitters continuously transmitting. Co-located is defined as < 3 m. In these cases the receivers will be tested together with the transmitter in operating mode.

The power of any spurious emission shall not exceed 2 nW in the range 25 MHz to 1 GHz and shall not exceed 20 nW on frequencies above 1 GHz.

4.7.2 Test Procedure

Please refer to ETSI EN 300 440 V2.2.1 (2018-07) clause 4.3.5.3 for the measurement method.

4.7.3 Test Result

Please refer to the Appendix I.6 for 5.8G WIFI RF Test Data.



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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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5. MEASUREMENT UNCERTAINTY

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	X-series USB Peak and Average Power Sensor Agilent	Agilent	U2021XA	MY54080022	2022-10-21	2023-10-20
2	4 CH. Simultaneous Sampling 14 Bits 2MS/s	Agilent	U2531A	MY54080016	2022-10-21	2023-10-20
3	Test Software	Ascentest	AT890-SW	20160630	N/A	N/A
4	RF Control Unit	Ascentest	AT890-RFB	N/A	2023-06-15	2024-06-14
5	MXA Signal Analyzer	Agilent	N9020A	MY49061051	2023-06-15	2024-06-14
6	DC Power Supply	Agilent	E3642A	N/A	2022-10-29	2023-10-28
7	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2023-06-15	2024-06-14
8	ESG Vector Signal Generator	Agilent	E4438C	MY49072627(3G)	2023-06-15	2024-06-14
9	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2023-06-15	2024-06-14
10	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2022-10-06	2023-10-05
11	EMI Test Software	Farad	EZ	/	N/A	N/A
12	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2021-09-25	2024-09-24
13	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
14	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
15	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
16	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
17	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
18	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2023-06-15	2024-06-14
19	EMI Test Receiver	R&S	ESR7	101181	2023-06-15	2024-06-14
20	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
21	Broadband Preamplifier	/	BP-01M18G	P190501	2023-06-15	2024-06-14
22	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2023-06-15	2024-06-14
23	6dB Attenuator	/	100W/6dB	1172040	2023-06-15	2024-06-14
24	3dB Attenuator	/	2N-3dB	/	2022-10-29	2023-10-28





6. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix D for Photographs of Test Setup_RF.

7. PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix C for Photographs of The EUT.



-----THE END OF REPORT-----

