



## RADIO TEST REPORT

For

Shenzhen Huafurui Technology Co., Ltd.

Tablet

Test Model: TAB 40

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, 518055, P.R. China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
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Date of receipt of test sample : May 15, 2023  
Number of tested samples : 2  
Serial number : Prototype  
Date of Test : May 15, 2023 ~ June 05, 2023  
Date of Report : June 06, 2023



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<b>RADIO TEST REPORT</b>	
<b>ETSI EN 301 908-1 V15.2.1 (2023-01) &amp; ETSI EN 301 908-13 V13.2.1 (2022-02)</b>	
<b>Report Reference No.</b> .....	<b>LCSA051523055EJ</b>
<b>Date of Issue</b> .....	June 06, 2023
<b>Testing Laboratory Name</b> .....	<b>Shenzhen LCS Compliance Testing Laboratory Ltd.</b>
<b>Address</b> .....	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
<b>Testing Location/ Procedure</b> ....	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
<b>Applicant's Name</b> .....	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b> .....	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, 518055, P.R. China
<b>Test Specification</b>	
<b>Standard</b> .....	ETSI EN 301 908-1 V15.2.1 (2023-01) ETSI EN 301 908-13 V13.2.1 (2022-02)
<b>Test Report Form No.</b> .....	LCSEMC-1.0
<b>TRF Originator</b> .....	Shenzhen LCS Compliance Testing Laboratory Ltd.
<b>Master TRF</b> .....	Dated 2017-06
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<b>Test Item Description</b> ..... : <b>Tablet</b>	
<b>Trade Mark</b> .....	CUBOT
<b>Test Model</b> .....	TAB 40
<b>Ratings</b> .....	Input: 5.0V $\pm$ 2.0A For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A Adapter Output: 5.0V $\pm$ 2.0A, 10.0W DC 3.8V by Rechargeable Li-ion Battery, 7500mAh
<b>Result</b> .....	<b>Positive</b>

Compiled by:

Kevin Huang

Supervised by:

Cary Luo

Approved by:

Gavin Liang

Kevin Huang/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager



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## RADIO -- TEST REPORT

Test Report No. : LCSA051523055EJ	June 06, 2023 Date of issue
-----------------------------------	--------------------------------

Test Model..... : TAB 40

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, 518055, P.R. China

Telephone..... : /

Fax..... : /

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

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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, 518055, 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	June 06, 2023	Initial Issue	---



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## 1. GENERAL INFORMATION

### 1.1. Product Description for Equipment Under Test (EUT)

EUT	: Tablet
Test Model	: TAB 40
Power Supply	: Input: 5.0V $\rightarrow$ 2.0A For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A Adapter Output: 5.0V $\rightarrow$ 2.0A, 10.0W DC 3.8V by Rechargeable Li-ion Battery, 7500mAh
Hardware Version	: S30DL_S88V1.1X
Software Version	: CUBOT_TAB 40_P061_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, 1.4dBi(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, 1.4dBi(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, 1.12dBi(Max.)
WIFI(5.8G Band)	:
Frequency Range	: 5745MHz~5825MHz



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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, 1.12dBi(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

-1.75dBi (max.) For GSM 900

1.01dBi (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

1.01dBi (max.) For WCDMA Band I

-1.75dBi (max.) For WCDMA Band VIII

Power Class : Level 3

**LTE**

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



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- ☒ 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  
1.01dBi (max.) For E-UTRA Band 1  
1.01dBi (max.) For E-UTRA Band 3  
1.01dBi (max.) For E-UTRA Band 7  
-1.75dBi (max.) For E-UTRA Band 8  
-1.75dBi (max.) For E-UTRA Band 20

Power Class : Class 3

GPS Receiver :

Receive Frequency : 1575.42MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 1.53dBi(Max.)

GLONASS Receiver :

Receive Frequency : 1602.5625MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 1.53dBi(Max.)

Galileo Receiver :

Receive Frequency : 1589.74MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 1.53dBi(Max.)







## 1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
ShenZhen HuaJin Electronics CO., LTD	AC Power Adapter	HJ-0502000W 2-EU	---	CE

## 1.3. External I/O

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

## 1.4. Objective

Standard Referenced	Standard Title	Standard Version
ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; Release 15	V15.2.1 (2023-01)
ETSI EN 301 908-13	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	V13.2.1 (2022-02)
ETSI TS 136 521-1	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing (3GPP TS 36.521-1 version 16.9.0 Release 16)	V16.9.0 (2021-03)

The objective is to determine compliance with ETSI EN 301 908-1 V15.2.1 (2023-01) & ETSI EN 301 908-13 V13.2.1 (2022-02).

## 1.5. Test Conditions

Conditions	Temperature	Voltage
Normal	21-25℃	DC 3.8V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-20℃	DC 3.4V
Low extreme Temperature/High extreme Voltage (TL/VH);	-20℃	DC 4.35V
High extreme Temperature/Low extreme Voltage (TH/VL);	45℃	DC 3.4V
High extreme Temperature/High extreme Voltage (TH/VH).	45℃	DC 4.35V

Note1: For all conditions, the humidity range is: 40-75%, the pressure range is 86-106kPa. The High Voltage DC 4.35V and Low Voltage DC 3.4V was declared by manufacturer





## 1.6. Description Of Test Mode

The following operating modes were applied for the related test items. For radiated measurement, the test was performed with EUT in X, Y, Z position and the worse case was found when EUT in Y position. All test modes were tested, only the result of the worst case was recorded in the report.

Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
	1.4	3	5	10	15	20	QPSK	16QAM	1	Part	Full	L	M	H
1	N/A	N/A	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
3	Y	/	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
7	N/A	N/A	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
8	Y	/	Y	Y	N/A	N/A	Y	Y	Y	Y	Y	Y	Y	Y
20	N/A	N/A	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y

Note:

- 1)The mark “Y” means that this configuration is chosen for testing.
- 2)The mark “/” means that this bandwidth is supported but is not chosen for testing.
- 3)The mark “N/A” means that this bandwidth is not supported.

## 1.7. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Radio Frequency	$0.9 \times 10^{-4}$
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 %

## 1.8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.



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## 2. SYSTEM TEST CONFIGURATION

### 2.1. Justification

N/A

### 2.2. EUT Exercise Software

N/A

### 2.3. Special Accessories

The special accessories were supplied by Shenzhen LCS Compliance Testing Laboratory Ltd.

### 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. Test Setup

Please refer to the test setup photo.





### 3. SUMMARY OF TEST RESULTS

Test Engineer	:	Taylor Hu
Temperature/ Humidity:	:	24.3°C/ 54.4%

Reference Clause No. (ETSI EN 301 908-13)	Description of Test Items	Result				
		E-UTRA Band				
		Band 1	Band 3	Band 7	Band 8	Band 20
4.2.2	Transmitter Maximum Output Power					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass
4.2.5	Transmitter Minimum Output Power					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass
4.2.3	Transmitter Spectrum Emission Mask					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass
4.2.4	Transmitter Spurious Emissions					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.10	Receiver Spurious Emissions					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.6	Receiver Adjacent Channel Selectivity (ACS)					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.7	Receiver Blocking Characteristics					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.8	Receiver Spurious Response					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.9	Receiver Intermodulation Characteristics					
	Normal	Pass	Pass	Pass	Pass	Pass



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4.2.12	Receiver Reference Sensitivity Level					
	Normal	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass

Reference Clause No. (ETSI EN 301 908-1)	Description of Test Items	Result				
		E-UTRA Band				
		Band 1	Band 3	Band 7	Band 8	Band 20
4.2.2	Radiated emissions (UE)					
	Normal	Pass	Pass	Pass	Pass	Pass
4.2.4	Control and monitoring functions (UE)					
	Normal	Pass	Pass	Pass	Pass	Pass

\*\*\*Note:

**Result:** Describes test result of Test Case.

**Pass:** Test Case passed on specified conformance test platform.

**Normal(TN/VN):** Normal temperature – 25°C; Normal voltage. – DC 3.8V

**TH:** High extreme Temperature – +45°C

**VH:** High extreme Voltage – DC 4.35V

**TL:** Low extreme Temperature – -20°C

**VL:** Low extreme Voltage – DC 3.4V

**N/A:** Not applicable.

—: Not test.



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#### 4. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
2	RF Control Unit	Tonscend	JS0806-1	158060009	2022-10-29	2023-10-28
3	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2022-10-29	2023-10-28
4	DC Power Supply	Agilent	E3642A	N/A	2022-10-29	2023-10-28
5	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2022-06-16	2023-06-15
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2022-06-16	2023-06-15
7	Temperature & Humidity Chamber	GUANGZHOU GOGN WEN	GDS-100	70932	2022-10-06	2023-10-05
8	EMI Test Software	Farad	EZ	/	N/A	N/A
9	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2021-09-25	2024-09-24
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2022-06-16	2023-06-15
16	EMI Test Receiver	R&S	ESR 7	101181	2022-06-16	2023-06-15
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
18	Broadband Preamplifier	/	BP-01M18G	P190501	2022-06-16	2023-06-15
19	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2022-06-16	2023-06-15
20	RF Filter	Micro-Tronics	BRC50718	017	2022-10-29	2023-10-28
21	RF Filter	Micro-Tronics	BRC50719	011	2022-10-29	2023-10-28
22	RF Filter	Micro-Tronics	BRC50720	011	2022-10-29	2023-10-28
23	RF Filter	Micro-Tronics	BRC50721	013	2022-10-29	2023-10-28
24	RF Filter	Micro-Tronics	BRM50702	195	2022-08-17	2023-08-16
25	6dB Attenuator	/	100W/6dB	1172040	2022-06-16	2023-06-15
26	3dB Attenuator	/	2N-3dB	/	2022-10-29	2023-10-28







## 5. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix D for Photographs of Test Setup\_RF.

## 6. PHOTOGRAPHS OF THE EUT

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





## Annex A

### Transmitter maximum output power

The Conducted Power Measurement Result for LTE Band					
Test Result for LTE Band 1					
Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
5MHz	Low Range	1	0	21.54	20.72
			max	21.46	20.79
		Partial	0	21.63	20.94
			max	21.53	20.85
	Mid Range	1	0	21.56	20.86
			max	21.58	20.81
		Partial	0	21.61	20.96
			max	21.52	20.93
	High Range	1	0	21.76	21.01
			max	21.82	21.03
		Partial	0	21.90	21.19
			max	21.87	21.13
20MHz	Low Range	1	0	21.58	20.83
			max	21.63	20.88
		Partial	0	21.50	20.82
			max	21.57	20.98
	Mid Range	1	0	21.79	21.13
			max	21.85	21.15
		Partial	0	21.63	20.86
			max	21.50	20.86
	High Range	1	0	21.59	20.82
			max	21.81	21.12
		Partial	0	21.65	20.92
			max	21.79	21.13





The Conducted Power Measurement Result for LTE Band					
Test Result for LTE Band 3					
Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
1.4MHz	Low Range	1	0	22.26	21.50
			max	22.25	21.53
		Partial	0	22.42	21.80
			max	22.30	21.66
	Mid Range	1	0	22.59	21.77
			max	22.63	21.89
		Partial	0	22.71	22.02
			max	22.70	22.00
	High Range	1	0	22.25	21.43
			max	22.21	21.44
		Partial	0	22.42	21.59
			max	22.43	21.73
5MHz	Low Range	1	0	22.33	21.61
			max	22.22	21.63
		Partial	0	22.32	21.63
			max	22.22	21.50
	Mid Range	1	0	22.83	22.11
			max	22.85	22.12
		Partial	0	22.71	22.00
			max	22.76	22.05
	High Range	1	0	22.39	21.70
			max	22.39	21.75
		Partial	0	22.44	21.69
			max	22.29	21.53
20MHz	Low Range	1	0	22.38	21.70
			max	22.47	21.73
		Partial	0	22.30	21.55
			max	22.18	21.40
	Mid Range	1	0	22.65	21.91
			max	22.68	21.88
		Partial	0	22.64	21.98
			max	22.60	21.86
	High Range	1	0	22.65	21.91
			max	22.64	21.86
		Partial	0	22.50	21.82
			max	22.55	21.84



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## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 7

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
5MHz	Low Range	1	0	21.51	20.87
			max	21.71	21.04
		Partial	0	21.53	20.88
			max	21.76	21.13
	Mid Range	1	0	21.35	20.70
			max	21.30	20.70
		Partial	0	21.30	20.60
			max	21.35	20.67
	High Range	1	0	21.79	21.04
			max	21.73	21.03
		Partial	0	21.01	20.30
			max	21.86	21.16
20MHz	Low Range	1	0	21.19	20.43
			max	21.83	21.14
		Partial	0	21.71	20.87
			max	21.43	20.69
	Mid Range	1	0	21.87	21.25
			max	21.35	20.59
		Partial	0	21.70	21.05
			max	21.82	21.08
	High Range	1	0	21.09	20.30
			max	21.99	21.23
		Partial	0	21.81	21.18
			max	21.80	21.21



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## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 8

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
1.4MHz	Low Range	1	0	23.97	23.29
			max	23.94	23.24
		Partial	0	24.06	23.35
			max	24.20	23.53
	Mid Range	1	0	24.18	23.51
			max	24.21	23.46
		Partial	0	24.24	23.48
			max	24.23	23.56
	High Range	1	0	23.82	23.18
			max	23.80	23.15
		Partial	0	23.89	23.19
			max	23.83	23.08
5MHz	Low Range	1	0	24.10	23.44
			max	24.07	23.36
		Partial	0	24.05	23.44
			max	24.04	23.31
	Mid Range	1	0	24.36	23.58
			max	24.15	23.48
		Partial	0	24.17	23.52
			max	24.24	23.60
	High Range	1	0	24.12	23.51
			max	23.99	23.24
		Partial	0	24.04	23.30
			max	23.94	23.17
10MHz	Low Range	1	0	24.02	23.36
			max	24.14	23.44
		Partial	0	24.01	23.31
			max	24.26	23.57
	Mid Range	1	0	24.24	23.51
			max	24.12	23.46
		Partial	0	24.27	23.60
			max	24.06	23.34
	High Range	1	0	24.18	23.43
			max	23.87	23.13
		Partial	0	24.10	23.34
			max	23.93	23.20



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## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 20

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Average Power (dBm, 16QAM)
		RB Size	RB Offset		
5MHz	Low Range	1	0	24.41	23.82
			max	24.50	23.93
		Partial	0	24.42	23.76
			max	24.40	23.71
	Mid Range	1	0	24.47	23.76
			max	24.38	23.65
		Partial	0	24.45	23.79
			max	24.34	23.71
	High Range	1	0	24.34	23.57
			max	24.16	23.52
		Partial	0	24.13	23.47
			max	24.15	23.46
20MHz	Low Range	1	0	24.53	23.73
			max	24.47	23.80
		Partial	0	24.38	23.79
			max	24.41	23.61
	Mid Range	1	0	24.71	23.98
			max	24.59	23.85
		Partial	0	24.42	23.68
			max	24.34	23.58
	High Range	1	0	24.30	23.54
			max	24.06	23.38
		Partial	0	24.45	23.76
			max	24.26	23.59







## Annex of Radiated spurious emission

Radiated spurious emissions - MS allocated a channel(Worst Case)

LTE Band 1(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.59	Horizontal	-80.40	-36.00	Pass
964.25	H	-72.40	-36.00	
3904.40	H	-70.15	-30.00	
5850.01	H	-53.52	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.22	Vertical	-70.55	-36.00	Pass
812.33	V	-79.43	-36.00	
3900.70	V	-64.26	-30.00	
5850.81	V	-54.21	-30.00	

LTE Band 1(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.72	Horizontal	-74.99	-36.00	Pass
814.53	H	-75.56	-36.00	
3900.76	H	-67.80	-30.00	
5850.16	H	-55.78	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.37	Vertical	-77.78	-36.00	Pass
925.13	V	-70.56	-36.00	
3903.99	V	-62.58	-30.00	
5854.01	V	-57.73	-30.00	





LTE Band 1(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.22	Horizontal	-72.78	-36.00	Pass
854.78	H	-74.85	-36.00	
3904.57	H	-64.39	-30.00	
5851.24	H	-58.56	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.54	Vertical	-72.37	-36.00	Pass
700.01	V	-78.02	-36.00	
3903.88	V	-60.71	-30.00	
5855.38	V	-52.98	-30.00	

LTE Band 1(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.61	Horizontal	-75.25	-36.00	Pass
973.67	H	-74.37	-36.00	
3900.76	H	-66.42	-30.00	
5855.53	H	-59.26	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.59	Vertical	-79.34	-36.00	Pass
758.21	V	-79.39	-36.00	
3905.82	V	-63.13	-30.00	
5850.24	V	-59.02	-30.00	





LTE Band 3(1.4MHz, RB allocation=6): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.60	Horizontal	-78.46	-36.00	Pass
993.36	H	-74.57	-36.00	
3502.44	H	-69.62	-30.00	
5250.40	H	-50.78	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.43	Vertical	-74.81	-36.00	Pass
883.45	V	-74.44	-36.00	
3501.37	V	-66.86	-30.00	
5250.31	V	-51.58	-30.00	

LTE Band 3(1.4MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.01	Horizontal	-74.44	-36.00	Pass
904.67	H	-74.97	-36.00	
3503.87	H	-60.41	-30.00	
5255.38	H	-59.50	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.62	Vertical	-70.36	-36.00	Pass
932.10	V	-73.67	-36.00	
3502.45	V	-70.08	-30.00	
5252.29	V	-52.99	-30.00	





LTE Band 3(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.30	Horizontal	-73.90	-36.00	Pass
825.77	H	-73.51	-36.00	
3503.74	H	-63.70	-30.00	
5252.48	H	-60.56	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.57	Vertical	-79.81	-36.00	Pass
877.59	V	-80.01	-36.00	
3500.56	V	-61.22	-30.00	
5251.36	V	-58.14	-30.00	

LTE Band 3(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.24	Horizontal	-77.75	-36.00	Pass
881.88	H	-79.86	-36.00	
3501.32	H	-64.65	-30.00	
5253.11	H	-53.45	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.26	Vertical	-74.76	-36.00	Pass
713.29	V	-78.54	-36.00	
3503.74	V	-68.10	-30.00	
5251.10	V	-60.18	-30.00	





LTE Band 3(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.58	Horizontal	-78.21	-36.00	Pass
935.23	H	-72.76	-36.00	
3501.02	H	-64.57	-30.00	
5253.79	H	-56.80	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.64	Vertical	-77.88	-36.00	Pass
960.14	V	-77.17	-36.00	
3505.10	V	-66.16	-30.00	
5250.86	V	-60.19	-30.00	

LTE Band 3(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.42	Horizontal	-74.02	-36.00	Pass
999.92	H	-78.88	-36.00	
3504.02	H	-67.06	-30.00	
5255.58	H	-55.89	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.68	Vertical	-79.68	-36.00	Pass
877.62	V	-76.02	-36.00	
3504.79	V	-70.73	-30.00	
5254.18	V	-59.82	-30.00	





LTE Band 7(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.02	Horizontal	-79.54	-36.00	Pass
742.90	H	-76.85	-36.00	
5074.60	H	-63.66	-30.00	
7689.17	H	-53.53	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.98	Vertical	-71.10	-36.00	Pass
806.74	V	-72.09	-36.00	
5071.98	V	-67.45	-30.00	
7687.45	V	-50.72	-30.00	

LTE Band 7(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.26	Horizontal	-80.79	-36.00	Pass
905.09	H	-75.83	-36.00	
5072.62	H	-67.36	-30.00	
7689.82	H	-50.41	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.05	Vertical	-80.34	-36.00	Pass
812.12	V	-77.95	-36.00	
5070.37	V	-69.20	-30.00	
7686.70	V	-60.29	-30.00	







LTE Band 7(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.56	Horizontal	-76.80	-36.00	Pass
732.23	H	-80.26	-36.00	
5072.00	H	-61.77	-30.00	
7690.83	H	-57.50	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.54	Vertical	-70.87	-36.00	Pass
954.66	V	-77.31	-36.00	
5072.76	V	-67.40	-30.00	
7686.44	V	-53.10	-30.00	

LTE Band 7(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.70	Horizontal	-75.37	-36.00	Pass
761.16	H	-70.33	-36.00	
5070.67	H	-70.42	-30.00	
7685.33	H	-54.39	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.49	Vertical	-73.56	-36.00	Pass
773.83	V	-80.14	-36.00	
5071.33	V	-62.82	-30.00	
7687.07	V	-52.18	-30.00	





LTE Band 8(1.4MHz, RB allocation=6): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.34	Horizontal	-77.43	-36.00	Pass
845.85	H	-70.04	-36.00	
1795.15	H	-61.07	-30.00	
2695.77	H	-51.70	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.06	Vertical	-77.09	-36.00	Pass
705.38	V	-71.67	-36.00	
1797.71	V	-69.41	-30.00	
2690.65	V	-58.30	-30.00	

LTE Band 8(1.4MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.73	Horizontal	-77.19	-36.00	Pass
943.67	H	-80.40	-36.00	
1791.59	H	-66.53	-30.00	
2695.28	H	-59.28	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.52	Vertical	-79.61	-36.00	Pass
971.26	V	-78.99	-36.00	
1792.86	V	-61.46	-30.00	
2693.23	V	-54.35	-30.00	





LTE Band 8(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.26	Horizontal	-80.03	-36.00	Pass
892.62	H	-71.52	-36.00	
1800.45	H	-61.39	-30.00	
2692.59	H	-52.52	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.01	Vertical	-76.33	-36.00	Pass
722.51	V	-74.13	-36.00	
1799.09	V	-67.77	-30.00	
2692.93	V	-59.08	-30.00	

LTE Band 8(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.53	Horizontal	-80.79	-36.00	Pass
762.84	H	-76.79	-36.00	
1799.70	H	-69.48	-30.00	
2691.15	H	-52.63	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.74	Vertical	-71.33	-36.00	Pass
767.58	V	-77.49	-36.00	
1800.70	V	-63.41	-30.00	
2691.94	V	-50.67	-30.00	





LTE Band 8(10MHz, RB allocation=50): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.52	Horizontal	-75.48	-36.00	Pass
941.75	H	-70.85	-36.00	
1794.56	H	-63.33	-30.00	
2694.82	H	-54.19	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.32	Vertical	-76.85	-36.00	Pass
1000.92	V	-74.37	-36.00	
1800.55	V	-66.08	-30.00	
2694.96	V	-53.20	-30.00	

LTE Band 8(10MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.36	Horizontal	-77.07	-36.00	Pass
933.95	H	-72.46	-36.00	
1790.60	H	-62.34	-30.00	
2690.50	H	-60.61	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.44	Vertical	-78.21	-36.00	Pass
758.29	V	-76.88	-36.00	
1796.27	V	-62.76	-30.00	
2690.15	V	-56.96	-30.00	





LTE Band 20(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.31	Horizontal	-72.38	-36.00	Pass
824.42	H	-74.51	-36.00	
1693.34	H	-63.35	-30.00	
2543.22	H	-53.43	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.98	Vertical	-75.43	-36.00	Pass
754.44	V	-77.03	-36.00	
1695.62	V	-61.49	-30.00	
2541.86	V	-54.26	-30.00	

LTE Band 20(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.74	Horizontal	-71.77	-36.00	Pass
730.49	H	-77.92	-36.00	
1697.12	H	-66.43	-30.00	
2541.91	H	-59.55	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.72	Vertical	-77.25	-36.00	Pass
829.54	V	-78.46	-36.00	
1698.45	V	-68.42	-30.00	
2544.41	V	-59.77	-30.00	





LTE Band 20(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.11	Horizontal	-70.66	-36.00	Pass
956.72	H	-72.64	-36.00	
1696.31	H	-66.53	-30.00	
2540.29	H	-50.28	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.56	Vertical	-75.63	-36.00	Pass
728.71	V	-75.28	-36.00	
1697.40	V	-67.93	-30.00	
2544.08	V	-56.92	-30.00	

LTE Band 20(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.18	Horizontal	-75.86	-36.00	Pass
723.91	H	-77.13	-36.00	
1695.18	H	-65.83	-30.00	
2543.02	H	-59.05	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.64	Vertical	-76.99	-36.00	Pass
761.82	V	-78.25	-36.00	
1691.14	V	-65.19	-30.00	
2541.37	V	-60.77	-30.00	



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

