



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.
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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



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RADIO TEST REPORT	
ETSI EN 301 908-1 V15.2.1 (2023-01) & ETSI EN 301 908-13 V13.2.1 (2022-02)	
Report Reference No.	LCSA062123036EJ
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 <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
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 301 908-1 V15.2.1 (2023-01) ETSI EN 301 908-13 V13.2.1 (2022-02)
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

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. : LCSA062123036EJ	July 10, 2023 Date of issue
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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)	:





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 :

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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.)





1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
ShenZhen HuaJin Electronics Co., Ltd	AC Adapter	HJ-FC001K7-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°C	DC 3.85V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-10°C	DC 3.47V
Low extreme Temperature/High extreme Voltage (TL/VH);	-10°C	DC 4.4V
High extreme Temperature/Low extreme Voltage (TH/VL);	40°C	DC 3.47V
High extreme Temperature/High extreme Voltage (TH/VH).	40°C	DC 4.4V

Note1: For all conditions, the humidity range is: 40-75%, the pressure range is 86-106kPa. The High Voltage DC 4.4V and Low Voltage DC 3.47V 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	0.9×10^{-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:	:	22.3°C/ 52.8%

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 3.85V

TH: High extreme Temperature – +40°C

VH: High extreme Voltage – DC 4.4V

TL: Low extreme Temperature – -10°C

VL: Low extreme Voltage – DC 3.47V

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	2023-06-15	2024-06-14
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2023-06-15	2024-06-14
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	2023-06-15	2024-06-14
16	EMI Test Receiver	R&S	ESR 7	101181	2023-06-15	2024-06-14
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
18	Broadband Preamplifier	/	BP-01M18G	P190501	2023-06-15	2024-06-14
19	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2023-06-15	2024-06-14
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	2023-06-15	2024-06-14
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)	Limit (dBm)
		RB Size	RB Offset		
5MHz	Low Range	1	1RB#0	21.75	20.3~25.7
			8RB#0	21.60	20.3~25.7
	Mid Range	1	1RB#0	21.85	20.3~25.7
			8RB#0	21.84	20.3~25.7
	High Range	1	1RB#24	22.04	20.3~25.7
			8RB#17	22.13	20.3~25.7
20MHz	Low Range	1	1RB#0	21.87	20.3~25.7
			18RB#0	21.73	20.3~25.7
	Mid Range	1	1RB#0	22.20	20.3~25.7
			18RB#0	21.96	20.3~25.7
	High Range	1	1RB#99	22.26	20.3~25.7
			18RB#82	22.19	20.3~25.7

The Conducted Power Measurement Result for LTE Band					
Test Result for LTE Band 3					
Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
1.4MHz	Low Range	1	1RB#0	22.10	20.3~25.7
	Mid Range	1	1RB#0	22.59	20.3~25.7
	High Range	1	1RB#0	22.76	20.3~25.7
			5RB#0	22.66	20.3~25.7
5MHz	Low Range	1	1RB#0	22.05	20.3~25.7
			1RB#24	22.09	20.3~25.7
	Mid Range	1	1RB#0	22.11	20.3~25.7
			1RB#24	22.57	20.3~25.7
	High Range	1	1RB#0	22.48	20.3~25.7
			1RB#24	22.41	20.3~25.7
20MHz	Low Range	1	1RB#0	22.42	20.3~25.7
			1RB#99	22.55	20.3~25.7
	Mid Range	1	1RB#0	22.24	20.3~25.7
			1RB#99	22.78	20.3~25.7
	High Range	1	1RB#0	22.76	20.3~25.7
			1RB#99	22.45	20.3~25.7
			18RB#0	22.76	20.3~25.7



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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)	Limit (dBm)
		RB Size	RB Offset		
5MHz	Low Range	1	1RB#0	21.20	20.3~25.7
			1RB#24	20.71	20.3~25.7
	Mid Range	1	1RB#0	21.47	20.3~25.7
			1RB#24	21.49	20.3~25.7
	High Range	1	1RB#0	21.77	20.3~25.7
			1RB#24	21.85	20.3~25.7
20MHz	Low Range	1	1RB#0	21.25	20.3~25.7
			1RB#99	21.90	20.3~25.7
	Mid Range	1	1RB#0	21.34	20.3~25.7
			1RB#99	22.00	20.3~25.7
	High Range	1	1RB#0	22.00	20.3~25.7
			1RB#99	22.23	20.3~25.7
			18RB#0	21.75	20.3~25.7

The Conducted Power Measurement Result for LTE Band

Test Result for LTE Band 8

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
1.4MHz	Low Range	1	1RB#0	21.85	20.3~25.7
	Mid Range	1	1RB#0	21.43	20.3~25.7
	High Range	1	1RB#0	22.02	20.3~25.7
			5RB#0	21.89	20.3~25.7
5MHz	Low Range	1	1RB#0	22.01	20.3~25.7
			1RB#24	21.95	20.3~25.7
	Mid Range	1	1RB#0	21.88	20.3~25.7
			1RB#24	21.31	20.3~25.7
	High Range	1	1RB#0	22.74	20.3~25.7
			1RB#24	22.68	20.3~25.7
10MHz	Low Range	1	1RB#0	21.80	20.3~25.7
			1RB#49	21.82	20.3~25.7
	Mid Range	1	1RB#0	22.14	20.3~25.7
			1RB#49	21.40	20.3~25.7
	High Range	1	1RB#0	21.98	20.3~25.7
			1RB#49	22.08	20.3~25.7
			12RB#0	21.60	20.3~25.7



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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)	Limit (dBm)
		RB Size	RB Offset		
5MHz	Low Range	1	1RB#0	22.50	20.3~25.7
			1RB#24	22.47	20.3~25.7
	Mid Range	1	1RB#0	21.98	20.3~25.7
			1RB#24	22.05	20.3~25.7
	High Range	1	1RB#0	22.83	20.3~25.7
			1RB#24	22.87	20.3~25.7
20MHz	Low Range	1	1RB#0	22.69	20.3~25.7
			1RB#99	22.70	20.3~25.7
	Mid Range	1	1RB#0	22.39	20.3~25.7
			1RB#99	22.36	20.3~25.7
	High Range	1	1RB#0	22.61	20.3~25.7
			1RB#99	22.29	20.3~25.7
			18RB#0	21.96	20.3~25.7



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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)		
60.02	Horizontal	-80.96	-36.00	Pass
877.75	H	-77.24	-36.00	
3904.67	H	-67.83	-30.00	
5852.75	H	-56.46	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.84	Vertical	-72.12	-36.00	Pass
837.25	V	-76.64	-36.00	
3901.51	V	-60.16	-30.00	
5852.09	V	-58.05	-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)		
50.11	Horizontal	-71.29	-36.00	Pass
839.23	H	-71.59	-36.00	
3904.35	H	-69.13	-30.00	
5852.28	H	-56.07	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.20	Vertical	-75.65	-36.00	Pass
922.15	V	-70.91	-36.00	
3902.38	V	-67.13	-30.00	
5853.43	V	-59.67	-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)		
58.82	Horizontal	-70.89	-36.00	Pass
735.51	H	-79.44	-36.00	
3903.68	H	-61.33	-30.00	
5852.47	H	-52.85	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.30	Vertical	-80.76	-36.00	Pass
873.15	V	-79.70	-36.00	
3904.25	V	-70.80	-30.00	
5852.90	V	-56.91	-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)		
55.71	Horizontal	-70.05	-36.00	Pass
769.52	H	-75.06	-36.00	
3903.72	H	-61.92	-30.00	
5854.32	H	-60.40	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.65	Vertical	-75.50	-36.00	Pass
993.63	V	-75.68	-36.00	
3902.66	V	-68.19	-30.00	
5851.14	V	-58.55	-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)		
54.14	Horizontal	-77.91	-36.00	Pass
810.58	H	-73.26	-36.00	
3500.77	H	-62.43	-30.00	
5252.28	H	-54.10	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.67	Vertical	-75.29	-36.00	Pass
919.41	V	-74.84	-36.00	
3501.19	V	-61.66	-30.00	
5255.57	V	-58.88	-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)		
58.47	Horizontal	-74.80	-36.00	Pass
925.42	H	-77.14	-36.00	
3502.39	H	-63.13	-30.00	
5251.85	H	-56.73	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.67	Vertical	-74.83	-36.00	Pass
930.93	V	-74.92	-36.00	
3501.25	V	-67.51	-30.00	
5250.46	V	-51.59	-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)		
60.07	Horizontal	-73.38	-36.00	Pass
733.50	H	-77.73	-36.00	
3504.73	H	-66.31	-30.00	
5254.56	H	-59.10	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.01	Vertical	-76.77	-36.00	Pass
898.37	V	-75.20	-36.00	
3504.57	V	-70.23	-30.00	
5255.11	V	-51.54	-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)		
54.82	Horizontal	-71.72	-36.00	Pass
949.74	H	-80.54	-36.00	
3505.13	H	-62.00	-30.00	
5251.33	H	-60.76	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.26	Vertical	-76.46	-36.00	Pass
762.25	V	-71.90	-36.00	
3501.23	V	-62.65	-30.00	
5254.87	V	-60.87	-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)		
51.33	Horizontal	-76.91	-36.00	Pass
745.89	H	-77.35	-36.00	
3503.88	H	-62.77	-30.00	
5250.76	H	-60.51	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.67	Vertical	-74.83	-36.00	Pass
726.65	V	-76.65	-36.00	
3504.96	V	-70.12	-30.00	
5250.74	V	-50.97	-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)		
51.76	Horizontal	-80.98	-36.00	Pass
921.46	H	-79.96	-36.00	
3500.03	H	-66.72	-30.00	
5255.85	H	-50.19	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.68	Vertical	-72.43	-36.00	Pass
805.45	V	-71.67	-36.00	
3501.95	V	-67.40	-30.00	
5252.77	V	-52.86	-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)		
55.69	Horizontal	-76.62	-36.00	Pass
944.43	H	-71.99	-36.00	
5075.26	H	-63.81	-30.00	
7687.45	H	-59.17	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.97	Vertical	-75.11	-36.00	Pass
875.12	V	-78.13	-36.00	
5072.88	V	-67.29	-30.00	
7688.09	V	-56.60	-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)		
52.90	Horizontal	-76.47	-36.00	Pass
940.30	H	-79.25	-36.00	
5074.68	H	-66.44	-30.00	
7689.03	H	-54.20	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.61	Vertical	-70.46	-36.00	Pass
828.66	V	-79.04	-36.00	
5073.91	V	-60.78	-30.00	
7688.90	V	-57.08	-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)		
54.16	Horizontal	-80.37	-36.00	Pass
991.84	H	-79.15	-36.00	
5072.39	H	-69.37	-30.00	
7687.71	H	-60.22	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.82	Vertical	-75.45	-36.00	Pass
776.89	V	-74.12	-36.00	
5070.26	V	-69.15	-30.00	
7690.65	V	-59.49	-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)		
60.42	Horizontal	-77.33	-36.00	Pass
924.97	H	-70.04	-36.00	
5074.10	H	-60.58	-30.00	
7688.67	H	-54.15	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.78	Vertical	-72.94	-36.00	Pass
774.40	V	-79.23	-36.00	
5072.94	V	-63.43	-30.00	
7686.88	V	-58.23	-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)		
60.03	Horizontal	-79.40	-36.00	Pass
805.48	H	-76.85	-36.00	
1795.28	H	-69.37	-30.00	
2695.85	H	-54.30	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.31	Vertical	-71.26	-36.00	Pass
967.95	V	-77.48	-36.00	
1800.72	V	-61.52	-30.00	
2694.32	V	-59.68	-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)		
54.42	Horizontal	-78.46	-36.00	Pass
704.43	H	-76.91	-36.00	
1790.14	H	-67.89	-30.00	
2694.54	H	-57.44	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.86	Vertical	-77.94	-36.00	Pass
886.40	V	-79.54	-36.00	
1790.85	V	-69.86	-30.00	
2690.83	V	-59.10	-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)		
54.58	Horizontal	-70.56	-36.00	Pass
959.15	H	-70.98	-36.00	
1793.41	H	-60.10	-30.00	
2694.60	H	-54.35	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.00	Vertical	-75.33	-36.00	Pass
841.72	V	-79.71	-36.00	
1796.74	V	-67.46	-30.00	
2691.92	V	-50.47	-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)		
54.49	Horizontal	-70.80	-36.00	Pass
748.27	H	-70.57	-36.00	
1797.38	H	-61.63	-30.00	
2691.97	H	-50.94	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.91	Vertical	-78.87	-36.00	Pass
851.97	V	-72.68	-36.00	
1798.33	V	-68.05	-30.00	
2694.15	V	-52.74	-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)		
50.64	Horizontal	-72.28	-36.00	Pass
858.54	H	-75.43	-36.00	
1791.53	H	-62.11	-30.00	
2695.51	H	-54.31	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.93	Vertical	-77.72	-36.00	Pass
765.50	V	-79.86	-36.00	
1792.18	V	-67.50	-30.00	
2692.79	V	-51.06	-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)		
57.07	Horizontal	-71.43	-36.00	Pass
889.02	H	-76.88	-36.00	
1796.22	H	-70.77	-30.00	
2694.61	H	-51.82	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.69	Vertical	-70.71	-36.00	Pass
798.99	V	-75.86	-36.00	
1792.16	V	-67.50	-30.00	
2691.16	V	-59.54	-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)		
57.30	Horizontal	-80.96	-36.00	Pass
769.25	H	-80.48	-36.00	
1692.15	H	-68.49	-30.00	
2540.74	H	-50.71	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.55	Vertical	-79.55	-36.00	Pass
966.92	V	-77.36	-36.00	
1695.43	V	-61.42	-30.00	
2542.61	V	-51.21	-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)		
50.25	Horizontal	-80.53	-36.00	Pass
761.17	H	-78.04	-36.00	
1692.18	H	-66.84	-30.00	
2541.36	H	-53.37	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.67	Vertical	-74.87	-36.00	Pass
958.80	V	-71.46	-36.00	
1694.96	V	-63.81	-30.00	
2544.36	V	-59.53	-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)		
60.98	Horizontal	-76.80	-36.00	Pass
797.66	H	-73.04	-36.00	
1694.16	H	-64.88	-30.00	
2543.40	H	-54.12	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.25	Vertical	-80.21	-36.00	Pass
761.31	V	-71.05	-36.00	
1691.81	V	-64.54	-30.00	
2541.33	V	-60.31	-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)		
57.36	Horizontal	-74.58	-36.00	Pass
772.90	H	-78.89	-36.00	
1694.69	H	-61.22	-30.00	
2543.46	H	-59.78	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.17	Vertical	-71.46	-36.00	Pass
791.80	V	-78.25	-36.00	
1690.83	V	-68.92	-30.00	
2540.22	V	-55.12	-30.00	

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

