



RADIO TEST REPORT

For

Shenzhen Huafurui Technology Co., Ltd

Smartphone

Test Model: NOTE 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, P.R. China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : July 25, 2023
Number of tested samples : 2
Serial number : Prototype
Date of Test : July 25, 2023 ~ August 18, 2023
Date of Report : August 22, 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.	LCSA072423053EJ
Date of Issue	August 22, 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 Huafului 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	
Smartphone	
Trade Mark	CUBOT
Test Model	NOTE 40
Ratings	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 3.87V by Rechargeable Li-ion Battery, 5200mAh
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. : LCSA072423053EJ	<u>August 22, 2023</u> Date of issue
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Test Model..... : NOTE 40

EUT..... : Smartphone

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	August 22, 2023	Initial Issue	---



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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	: Smartphone
Test Model	: NOTE 40
Power Supply	: 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 3.87V by Rechargeable Li-ion Battery, 5200mAh
Hardware Version	: G2233G-UF-V1.1
Software Version	: CUBOT_NOTE 40_D045_V01
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0 (BDR/EDR) 40 channels for Bluetooth V5.0 (BT LE/ BT 2LE)
Channel Spacing	: 1MHz for Bluetooth V5.0 (BDR/EDR) 2MHz for Bluetooth V5.0 (BT LE/ BT 2LE)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (BDR/EDR) GFSK for Bluetooth V5.0 (BT LE/ BT 2LE)
Bluetooth Version	: V5.0
Antenna Description	: PIFA Antenna, 2.52dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2472MHz
Channel Spacing	: 5MHz
Channel Number	: 13 Channel for 20MHz bandwidth(2412~2472MHz)
Modulation Type	: 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 2.52dBi(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, -0.87dBi(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, -0.87dBi(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

-3.38dBi (max.) For GSM 900

-1.05dBi (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 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

-3.71dBi (max.) For WCDMA Band I

-3.38dBi (max.) For WCDMA Band VIII

Power Class : Level 3

LTE

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)



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☒ E-UTRA Band 28(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
E-UTRA Band 28: 703MHz~748MHz
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
E-UTRA Band 28: 758MHz~803MHz

Type Of Modulation : QPSK/16QAM

Antenna Description : PIFA Antenna

-3.71dBi (max.) For E-UTRA Band 1
-1.05dBi (max.) For E-UTRA Band 3
-1.47dBi (max.) For E-UTRA Band 7
-3.38dBi (max.) For E-UTRA Band 8
-2.14dBi (max.) For E-UTRA Band 20
-1.14dBi (max.) For E-UTRA Band 28

Power Class : Class 3

GPS Receiver :

Receive Frequency : 1575.42MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0.77dBi(Max.)

GLONASS Receiver :

Receive Frequency : 1602.5625MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0.77dBi(Max.)

Galileo Receiver :

Receive Frequency : 1589.74MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0.77dBi(Max.)

BDS Receiver :

Receive Frequency : 1561.098MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0.77dBi(Max.)



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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

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 3.87V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-20℃	DC 3.48V
Low extreme Temperature/High extreme Voltage (TL/VH);	-20℃	DC 4.45V
High extreme Temperature/Low extreme Voltage (TH/VL);	45℃	DC 3.48V
High extreme Temperature/High extreme Voltage (TH/VH).	45℃	DC 4.45V

Note1: For all conditions, the humidity range is: 40-75%, the pressure range is 86-106kPa. The High Voltage DC 4.45V and Low Voltage DC 3.48V 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
28	N/A	Y	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:	:	22.2°C/ 52.7%

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	Band 28
4.2.2	Transmitter Maximum Output Power						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass	Pass
4.2.5	Transmitter Minimum Output Power						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass	Pass
4.2.3	Transmitter Spectrum Emission Mask						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass	Pass
4.2.4	Transmitter Spurious Emissions						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.10	Receiver Spurious Emissions						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.6	Receiver Adjacent Channel Selectivity (ACS)						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.7	Receiver Blocking Characteristics						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.8	Receiver Spurious Response						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.9	Receiver Intermodulation Characteristics						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass



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4.2.12	Receiver Reference Sensitivity Level						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	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	Band 28
4.2.2	Radiated emissions (UE)						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.4	Control and monitoring functions (UE)						
	Normal	Pass	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 – +45°C

VH: High extreme Voltage – DC 4.45V

TL: Low extreme Temperature – -20°C

VL: Low extreme Voltage – DC 3.48V

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	2023-06-09	2024-06-08
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2023-06-09	2024-06-08
7	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	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	2022-08-17	2025-08-16
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	2023-06-09	2024-06-08
16	EMI Test Receiver	R&S	ESR 7	101181	2023-06-09	2024-06-08
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
18	Broadband Preamplifier	/	BP-01M18G	P190501	2023-06-09	2024-06-08
19	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2023-06-09	2024-06-08
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 2023-08-15	2023-08-16 2024-08-14
25	6dB Attenuator	/	100W/6dB	1172040	2023-06-09	2024-06-08
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#24	23.04	20.3~25.7
			8RB#17	23.08	20.3~25.7
	Mid Range	1	1RB#0	22.92	20.3~25.7
			18RB#0	22.83	20.3~25.7
	High Range	1	1RB#0	23.02	20.3~25.7
			18RB#0	22.92	20.3~25.7
20MHz	Low Range	1	1RB#0	23.06	20.3~25.7
			8RB#0	23.04	20.3~25.7
	Mid Range	1	1RB#0	23.13	20.3~25.7
			8RB#0	23.10	20.3~25.7
	High Range	1	1RB#99	23.03	20.3~25.7
			18RB#82	22.93	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	22.62	20.3~25.7
	Mid Range	1	1RB#0	22.76	20.3~25.7
	High Range	1	1RB#0	22.71	20.3~25.7
			5RB#0	22.87	20.3~25.7
5MHz	Low Range	1	1RB#0	22.77	20.3~25.7
			1RB#24	22.73	20.3~25.7
	Mid Range	1	1RB#0	22.97	20.3~25.7
			1RB#24	22.93	20.3~25.7
	High Range	1	1RB#0	22.81	20.3~25.7
			1RB#24	22.81	20.3~25.7
20MHz	Low Range	1	8RB#0	22.88	20.3~25.7
			1RB#0	22.72	20.3~25.7
	Mid Range	1	1RB#99	22.76	20.3~25.7
			1RB#0	22.93	20.3~25.7
			1RB#99	22.90	20.3~25.7
			1RB#0	22.76	20.3~25.7
High Range	1	1	1RB#99	22.83	20.3~25.7
			18RB#0	22.66	20.3~25.7





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	22.85	20.3~25.7
			1RB#24	22.77	20.3~25.7
	Mid Range	1	1RB#0	22.79	20.3~25.7
			1RB#24	22.74	20.3~25.7
	High Range	1	1RB#0	22.52	20.3~25.7
			1RB#24	22.57	20.3~25.7
20MHz	Low Range	1	1RB#0	22.76	20.3~25.7
			1RB#99	22.60	20.3~25.7
	Mid Range	1	1RB#0	22.70	20.3~25.7
			1RB#99	22.69	20.3~25.7
	High Range	1	1RB#0	22.36	20.3~25.7
			1RB#99	22.46	20.3~25.7
			18RB#0	22.37	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	23.08	20.3~25.7
	Mid Range	1	1RB#0	23.10	20.3~25.7
	High Range	1	1RB#0	23.38	20.3~25.7
			5RB#0	23.55	20.3~25.7
5MHz	Low Range	1	1RB#0	23.19	20.3~25.7
			1RB#24	23.35	20.3~25.7
	Mid Range	1	1RB#0	23.40	20.3~25.7
			1RB#24	23.28	20.3~25.7
	High Range	1	1RB#0	23.62	20.3~25.7
			1RB#24	23.53	20.3~25.7
10MHz	Low Range	1	1RB#0	23.19	20.3~25.7
			1RB#49	23.39	20.3~25.7
	Mid Range	1	1RB#0	23.47	20.3~25.7
			1RB#49	23.26	20.3~25.7
	High Range	1	1RB#0	23.62	20.3~25.7
			1RB#49	23.48	20.3~25.7
			12RB#0	23.53	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	22.69	20.3~25.7
			1RB#24	23.69	20.3~25.7
	Mid Range	1	1RB#0	23.55	20.3~25.7
			1RB#24	23.46	20.3~25.7
	High Range	1	1RB#0	23.76	20.3~25.7
			1RB#24	23.66	20.3~25.7
20MHz	Low Range	1	1RB#0	23.68	20.3~25.7
			1RB#99	23.69	20.3~25.7
	Mid Range	1	1RB#0	23.68	20.3~25.7
			1RB#99	23.45	20.3~25.7
	High Range	1	1RB#0	23.50	20.3~25.7
			1RB#99	23.41	20.3~25.7
			18RB#0	23.51	20.3~25.7

The Conducted Power Measurement Result for LTE Band

Test Result for LTE Band 28

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
3MHz	Low Range	1	1RB#0	23.09	20.3~25.7
			4RB#0	23.27	20.3~25.7
	Mid Range	1	1RB#0	23.40	20.3~25.7
			4RB#0	23.39	20.3~25.7
	High Range	1	1RB#14	23.43	20.3~25.7
			4RB#11	23.54	20.3~25.7
5MHz	Low Range	1	1RB#0	23.49	20.3~25.7
			8RB#0	23.46	20.3~25.7
	Mid Range	1	1RB#0	23.70	20.3~25.7
			8RB#0	23.69	20.3~25.7
	High Range	1	1RB#24	23.77	20.3~25.7
			8RB#17	23.77	20.3~25.7
20MHz	Low Range	1	1RB#0	23.54	20.3~25.7
			18RB#0	23.32	20.3~25.7
	Mid Range	1	1RB#0	23.48	20.3~25.7
			18RB#0	23.47	20.3~25.7
	High Range	1	1RB#99	23.58	20.3~25.7
			18RB#82	23.50	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)		
59.31	Horizontal	-79.67	-36.00	Pass
730.11	H	-79.40	-36.00	
3902.75	H	-69.52	-30.00	
5855.11	H	-56.70	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.27	Vertical	-70.24	-36.00	Pass
1000.26	V	-73.55	-36.00	
3903.17	V	-61.66	-30.00	
5855.03	V	-56.66	-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)		
54.60	Horizontal	-77.96	-36.00	Pass
812.43	H	-73.47	-36.00	
3901.51	H	-62.72	-30.00	
5854.08	H	-57.36	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.83	Vertical	-77.27	-36.00	Pass
800.02	V	-80.25	-36.00	
3901.95	V	-65.98	-30.00	
5855.92	V	-57.51	-30.00	



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LTE Band 1(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.72	Horizontal	-72.54	-36.00	Pass
700.01	H	-77.39	-36.00	
3904.51	H	-65.98	-30.00	
5855.10	H	-60.56	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.92	Vertical	-78.95	-36.00	Pass
915.43	V	-76.42	-36.00	
3904.31	V	-67.53	-30.00	
5851.69	V	-51.62	-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)		
60.28	Horizontal	-74.01	-36.00	Pass
977.36	H	-80.95	-36.00	
3900.36	H	-65.14	-30.00	
5850.13	H	-56.84	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.96	Vertical	-79.37	-36.00	Pass
731.04	V	-76.80	-36.00	
3902.91	V	-64.93	-30.00	
5855.59	V	-57.73	-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)		
60.37	Horizontal	-79.91	-36.00	Pass
701.39	H	-74.48	-36.00	
3502.01	H	-63.67	-30.00	
5255.34	H	-58.92	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.06	Vertical	-74.21	-36.00	Pass
780.98	V	-79.83	-36.00	
3505.60	V	-63.80	-30.00	
5250.53	V	-52.64	-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)		
59.35	Horizontal	-74.12	-36.00	Pass
743.71	H	-78.41	-36.00	
3505.92	H	-64.55	-30.00	
5252.16	H	-60.77	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.41	Vertical	-78.61	-36.00	Pass
915.96	V	-72.20	-36.00	
3504.71	V	-63.68	-30.00	
5251.39	V	-50.70	-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)		
53.45	Horizontal	-75.05	-36.00	Pass
793.25	H	-70.92	-36.00	
3500.66	H	-63.42	-30.00	
5255.36	H	-53.21	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.54	Vertical	-77.66	-36.00	Pass
718.13	V	-72.70	-36.00	
3501.67	V	-61.33	-30.00	
5252.00	V	-57.55	-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)		
53.47	Horizontal	-77.57	-36.00	Pass
849.82	H	-79.96	-36.00	
3503.76	H	-69.06	-30.00	
5251.56	H	-57.63	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.78	Vertical	-72.74	-36.00	Pass
803.79	V	-75.08	-36.00	
3504.51	V	-69.08	-30.00	
5250.34	V	-50.49	-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)		
53.58	Horizontal	-77.75	-36.00	Pass
884.51	H	-77.36	-36.00	
3505.10	H	-61.09	-30.00	
5254.15	H	-52.79	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.35	Vertical	-74.51	-36.00	Pass
987.49	V	-79.92	-36.00	
3504.12	V	-69.30	-30.00	
5255.26	V	-56.70	-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)		
50.42	Horizontal	-71.13	-36.00	Pass
942.61	H	-72.16	-36.00	
3502.60	H	-61.83	-30.00	
5252.79	H	-55.23	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.76	Vertical	-80.41	-36.00	Pass
956.20	V	-74.21	-36.00	
3503.09	V	-62.16	-30.00	
5253.10	V	-57.30	-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)		
54.40	Horizontal	-79.16	-36.00	Pass
758.78	H	-73.44	-36.00	
5071.23	H	-61.87	-30.00	
7687.84	H	-52.12	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.54	Vertical	-78.22	-36.00	Pass
974.15	V	-80.46	-36.00	
5071.27	V	-69.68	-30.00	
7686.36	V	-58.83	-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)		
53.92	Horizontal	-79.66	-36.00	Pass
866.45	H	-75.68	-36.00	
5074.02	H	-65.49	-30.00	
7690.86	H	-56.10	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.98	Vertical	-78.38	-36.00	Pass
746.69	V	-70.49	-36.00	
5075.68	V	-67.77	-30.00	
7689.24	V	-53.75	-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)		
57.22	Horizontal	-77.66	-36.00	Pass
985.80	H	-77.46	-36.00	
5071.68	H	-63.70	-30.00	
7686.13	H	-52.50	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.74	Vertical	-78.63	-36.00	Pass
854.21	V	-79.82	-36.00	
5073.77	V	-70.25	-30.00	
7690.30	V	-58.66	-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)		
60.58	Horizontal	-75.73	-36.00	Pass
793.27	H	-79.38	-36.00	
5075.65	H	-63.88	-30.00	
7685.49	H	-59.78	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.45	Vertical	-80.87	-36.00	Pass
804.42	V	-75.12	-36.00	
5073.12	V	-66.48	-30.00	
7689.30	V	-54.28	-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)		
50.61	Horizontal	-75.51	-36.00	Pass
803.73	H	-73.98	-36.00	
1798.92	H	-68.42	-30.00	
2695.17	H	-55.19	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.36	Vertical	-74.16	-36.00	Pass
948.96	V	-73.92	-36.00	
1791.87	V	-67.97	-30.00	
2690.31	V	-58.31	-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)		
57.71	Horizontal	-75.74	-36.00	Pass
920.24	H	-75.72	-36.00	
1791.15	H	-70.94	-30.00	
2691.03	H	-50.42	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.23	Vertical	-76.20	-36.00	Pass
795.79	V	-72.91	-36.00	
1799.83	V	-62.38	-30.00	
2690.66	V	-57.48	-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)		
54.27	Horizontal	-76.62	-36.00	Pass
924.12	H	-70.39	-36.00	
1797.57	H	-61.85	-30.00	
2690.03	H	-52.98	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.92	Vertical	-80.57	-36.00	Pass
730.69	V	-77.29	-36.00	
1794.33	V	-69.53	-30.00	
2692.39	V	-53.14	-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)		
60.99	Horizontal	-70.40	-36.00	Pass
977.85	H	-79.61	-36.00	
1794.23	H	-65.38	-30.00	
2692.73	H	-55.71	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.77	Vertical	-77.12	-36.00	Pass
954.56	V	-78.20	-36.00	
1796.90	V	-69.59	-30.00	
2690.17	V	-53.80	-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)		
59.40	Horizontal	-76.22	-36.00	Pass
870.84	H	-79.17	-36.00	
1798.20	H	-66.38	-30.00	
2690.15	H	-51.97	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.78	Vertical	-72.97	-36.00	Pass
768.44	V	-78.18	-36.00	
1794.05	V	-60.77	-30.00	
2691.46	V	-59.23	-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)		
59.90	Horizontal	-79.16	-36.00	Pass
905.12	H	-77.22	-36.00	
1791.84	H	-63.89	-30.00	
2690.39	H	-57.09	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.95	Vertical	-72.78	-36.00	Pass
792.52	V	-80.71	-36.00	
1798.70	V	-70.74	-30.00	
2692.72	V	-54.27	-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)		
56.19	Horizontal	-80.32	-36.00	Pass
725.34	H	-72.27	-36.00	
1691.86	H	-62.96	-30.00	
2544.63	H	-60.19	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.99	Vertical	-79.16	-36.00	Pass
858.73	V	-78.76	-36.00	
1700.59	V	-69.73	-30.00	
2542.88	V	-56.81	-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)		
50.24	Horizontal	-76.67	-36.00	Pass
957.03	H	-80.38	-36.00	
1698.97	H	-64.81	-30.00	
2540.62	H	-57.54	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.66	Vertical	-72.85	-36.00	Pass
835.11	V	-79.01	-36.00	
1696.50	V	-66.39	-30.00	
2544.72	V	-56.87	-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)		
59.98	Horizontal	-71.63	-36.00	Pass
987.97	H	-73.80	-36.00	
1694.48	H	-60.83	-30.00	
2540.16	H	-55.95	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.28	Vertical	-74.92	-36.00	Pass
749.25	V	-80.63	-36.00	
1695.32	V	-65.07	-30.00	
2543.76	V	-58.05	-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)		
52.84	Horizontal	-80.57	-36.00	Pass
761.42	H	-71.18	-36.00	
1692.00	H	-70.44	-30.00	
2543.68	H	-50.10	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.17	Vertical	-79.54	-36.00	Pass
911.25	V	-72.56	-36.00	
1700.74	V	-69.33	-30.00	
2542.83	V	-51.63	-30.00	





LTE Band 28(3MHz, RB allocation=15): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.10	Horizontal	-80.96	-36.00	Pass
717.54	H	-78.87	-36.00	
1451.19	H	-68.25	-30.00	
2174.40	H	-52.54	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.26	Vertical	-77.02	-36.00	Pass
891.11	V	-78.14	-36.00	
1448.31	V	-65.50	-30.00	
2175.67	V	-59.86	-30.00	

LTE Band 28(3MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.64	Horizontal	-77.08	-36.00	Pass
712.72	H	-73.97	-36.00	
1449.81	H	-64.15	-30.00	
2173.10	H	-60.28	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.04	Vertical	-71.05	-36.00	Pass
972.89	V	-77.45	-36.00	
1450.40	V	-68.25	-30.00	
2173.60	V	-58.02	-30.00	





LTE Band 28(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.80	Horizontal	-79.99	-36.00	Pass
996.00	H	-74.10	-36.00	
1455.13	H	-67.60	-30.00	
2174.25	H	-54.40	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.64	Vertical	-70.98	-36.00	Pass
766.52	V	-80.66	-36.00	
1448.11	V	-70.88	-30.00	
2180.84	V	-56.46	-30.00	

LTE Band 28(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.76	Horizontal	-73.36	-36.00	Pass
750.37	H	-80.59	-36.00	
1454.76	H	-70.80	-30.00	
2173.35	H	-54.98	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.95	Vertical	-77.30	-36.00	Pass
733.64	V	-71.55	-36.00	
1454.91	V	-61.22	-30.00	
2170.33	V	-53.74	-30.00	





LTE Band 28(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.96	Horizontal	-73.08	-36.00	Pass
726.15	H	-77.15	-36.00	
1455.93	H	-68.00	-30.00	
2176.26	H	-54.01	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.55	Vertical	-72.69	-36.00	Pass
734.47	V	-71.52	-36.00	
1452.19	V	-65.16	-30.00	
2172.68	V	-53.78	-30.00	

LTE Band 28(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.21	Horizontal	-76.30	-36.00	Pass
772.22	H	-77.78	-36.00	
1451.48	H	-64.63	-30.00	
2170.92	H	-60.80	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.61	Vertical	-74.80	-36.00	Pass
972.16	V	-70.95	-36.00	
1446.24	V	-66.67	-30.00	
2176.41	V	-50.07	-30.00	

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

