



FCC RF Test Report

(LTE)

Report No.: JYTSZ-R12-2301367G2

Applicant: NU-ERA TELECOMMUNICATIONS INC

Address of Applicant: 848 Brickell Av. Suite 1015, Miami, Florida, United States
33131

Equipment Under Test (EUT)

Product Name: mobile phone

Model No.: Prime6

Trade Mark: UNO

FCC ID: 2A5WBUNOPR6

Applicable Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27L & H & M& N

Date of Sample Receipt: 10 Oct., 2023

Date of Test: 11 Oct., to 24 Oct., 2023

Date of Report Issued: 25 Oct., 2023

Test Result: PASS

Tested by:

June Li
Project Engineer
Seta Chang
Senior Engineer
James Wei
Manager

Date:

25 Oct., 2023

Reviewed by:

Date:

25 Oct., 2023

Approved by:

Date:

25 Oct., 2023

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

1 Version

Version No.	Date	Description
00	25 Oct., 2023	Original

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3 General Information

3.1 Client Information

Applicant:	NU-ERA TELECOMMUNICATIONS INC
Address:	848 Brickell Av. Suite 1015, Miami, Florida, United States 33131
Manufacturer:	NU-ERA TELECOMMUNICATIONS INC
Address:	848 Brickell Av. Suite 1015, Miami, Florida, United States 33131

3.2 General Description of E.U.T.

Product Name:	mobile phone		
Model No.:	Prime6		
Operation Frequency Range:	LTE band 2:	Tx: 1850 MHz - 1910 MHz	Rx: 1930 MHz - 1990 MHz
	LTE band 4:	Tx: 1710 MHz - 1755 MHz	Rx: 2110 MHz - 2155 MHz
	LTE band 5:	Tx: 824 MHz - 849 MHz	Rx: 869 MHz - 894 MHz
	LTE band 12:	Tx: 699 MHz - 716 MHz	Rx: 729 MHz - 746 MHz
	LTE band 17:	Tx: 704 MHz - 716 MHz	Rx: 734 MHz - 746 MHz
	LTE band 41:	Tx: 2496 MHz - 2690 MHz	Rx: 2496 MHz - 2690 MHz
	LTE band 66:	Tx: 1710 MHz - 1780 MHz	Rx: 2110 MHz - 2200 MHz
	LTE band 71:	Tx: 663 MHz - 698 MHz	Rx: 617 MHz - 652 MHz
Modulation Type:	☒ QPSK ☒ 16QAM ☒ 64QAM(only supports downlink)		
Antenna Type:	Internal Antenna		
Antenna Gain:	LTE band 2:	2.0 dBi (declare by Applicant)	
	LTE band 4:	2.0 dBi (declare by Applicant)	
	LTE band 5:	0.5 dBi (declare by Applicant)	
	LTE band 12:	0.3 dBi (declare by Applicant)	
	LTE band 17:	0.3 dBi (declare by Applicant)	
	LTE band 41:	2.3 dBi (declare by Applicant)	
	LTE band 66:	2.0 dBi (declare by Applicant)	
	LTE band 71:	0.2 dBi (declare by Applicant)	
Power Supply:	Rechargeable Li-ion Battery DC3.8V, 2800mAh		
AC Adapter:	Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1000mA		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

3.3 Test Mode and Environment

Test Mode:	
QPSK mode:	Keep the EUT communication with simulated station in QPSK mode
16QAM mode:	Keep the EUT communication with simulated station in 16QAM mode
64QAM mode:	Keep the EUT communication with simulated station in 64QAM mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	
Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.80 Vdc, Extreme: Low 3.50 Vdc, High 4.35 Vdc
Test Engineer:	Harper(Conducted measurement) Asher(Radiated measurement)

3.4 Description of Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (30MHz ~ 1GHz) (3m FAR)	3.43 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 dB
Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-09-2023	02-08-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-13-2023	07-12-2024
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	07-14-2023	07-13-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	01-09-2023	01-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	01-09-2023	01-08-2024
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	05-14-2023	05-13-2024
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	05-14-2023	05-13-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	01-10-2023	01-09-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ081-1	06-13-2023	06-12-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020A	WXJ094	09-25-2023	09-24-2024
Simulated Station	Rohde & Schwarz	CMW500	WXJ081	06-13-2023	06-12-2024
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	Tonscend	JS0806-1	WXG010	N/A	
Band Reject Filter Group	Tonscend	JS0806-F	WXG010-1	N/A	
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

4 Measurement Setup and Procedure

4.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

LTE band 2					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	18607	1850.7	Lowest channel	18915	1851.5
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19193	1909.3	Highest channel	19185	1908.5
5 MHz			10 MHz		
Lowest channel	18625	1852.5	Lowest channel	18650	1855.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19175	1907.5	Highest channel	19150	1905.0
15 MHz			20 MHz		
Lowest channel	18675	1857.5	Lowest channel	18700	1860.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19125	1902.5	Highest channel	19100	1900.0
LTE band 4					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	19957	1710.7	Lowest channel	19965	1711.5
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20393	1754.3	Highest channel	20385	1753.5
5 MHz			10 MHz		
Lowest channel	19975	1712.5	Lowest channel	20000	1715.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20375	1752.5	Highest channel	20350	1750.0
15 MHz			20 MHz		
Lowest channel	20025	1717.5	Lowest channel	20050	1720.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20325	1747.5	Highest channel	20300	1745.0
LTE band 5					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	20407	824.7	Lowest channel	20415	825.5
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20643	848.3	Highest channel	20635	847.5
5 MHz			10 MHz		
Lowest channel	20425	826.5	Lowest channel	20450	829.0
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20625	846.5	Highest channel	20600	844.0

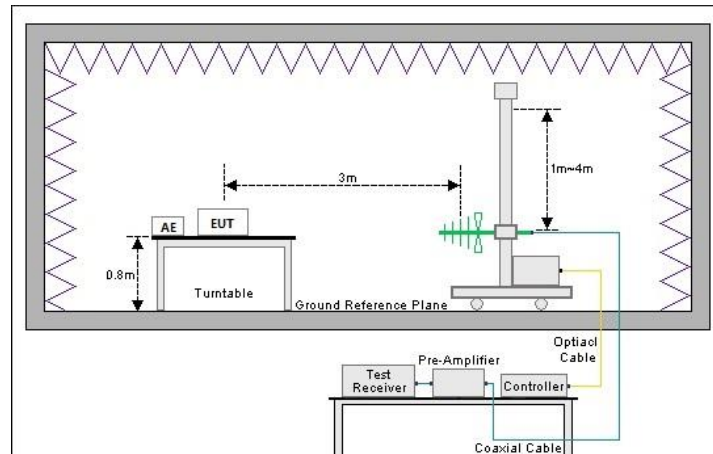
LTE band 12					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	23017	699.70	Lowest channel	23025	700.50
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23173	715.30	Highest channel	23165	714.50
5 MHz			10 MHz		
Lowest channel	23035	701.50	Lowest channel	23060	704.00
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23155	713.50	Highest channel	23130	711.00
LTE band 17					
5 MHz			10 MHz		
Lowest channel	23755	706.50	Lowest channel	23780	709.00
Middle channel	23790	710.00	Middle channel	23790	710.00
Highest channel	23825	713.50	Highest channel	23800	711.00
LTE band 41(2496MHz ~ 2690MHz)					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	39675	2498.5	Lowest channel	39700	2501.0
Middle channel	40620	2593.0	Middle channel	40620	2593.0
Highest channel	41565	2687.5	Highest channel	41540	2685.0
15 MHz			20 MHz		
Lowest channel	39725	2503.5	Lowest channel	39750	2506.0
Middle channel	40620	2593.0	Middle channel	40620	2593.0
Highest channel	41515	2682.5	Highest channel	41490	2680.0

LTE band 66					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	131979	1710.7	Lowest channel	131987	1711.5
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132665	1779.3	Highest channel	132657	1778.5
5 MHz			10 MHz		
Lowest channel	131997	1712.5	Lowest channel	132022	1715.0
Middle channel	132322	1745.5	Middle channel	132322	1745.0
Highest channel	132647	1777.5	Highest channel	132622	1775.0
15 MHz			20 MHz		
Lowest channel	132047	1717.5	Lowest channel	132072	1720.0
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132597	1772.5	Highest channel	132572	1770.0
LTE band 71					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	133147	665.5	Lowest channel	133172	668.0
Middle channel	133297	680.5	Middle channel	133297	680.5
Highest channel	133447	695.5	Highest channel	133422	693.0
15 MHz			20 MHz		
Lowest channel	133197	670.5	Lowest channel	133222	673.0
Middle channel	133297	680.5	Middle channel	133297	680.5
Highest channel	133397	690.5	Highest channel	133372	688.0

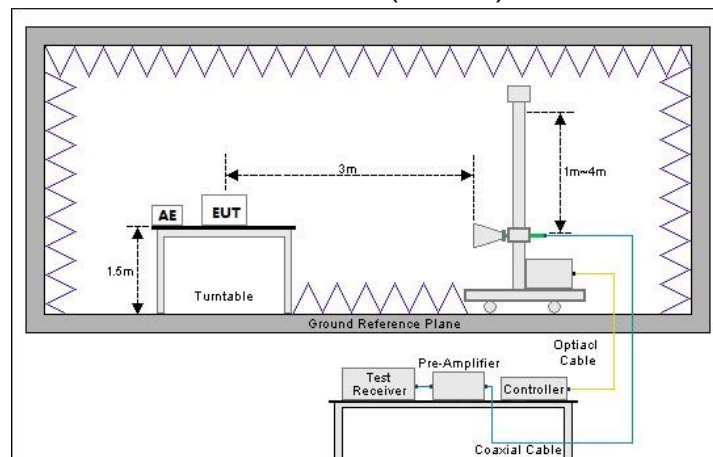
4.2 Test Setup

1) Radiated emission measurement:

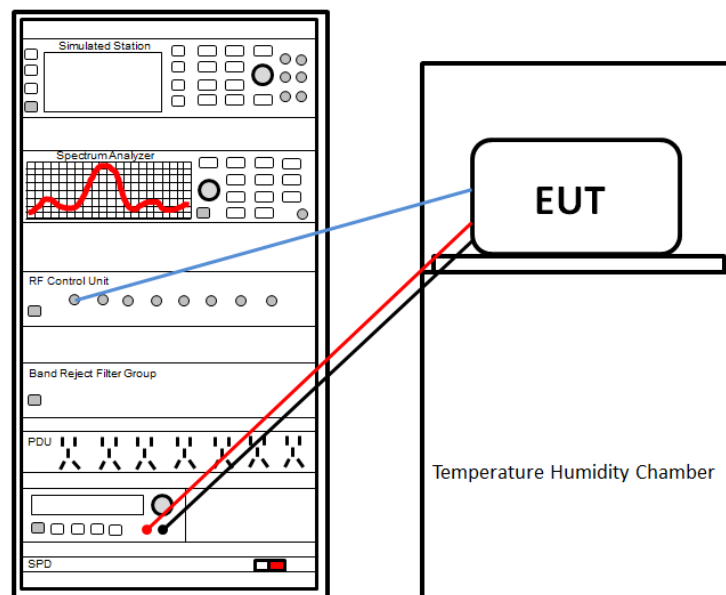
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	1. The LTE antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	See SAR Report	Pass
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2)	Appendix A– LTE	Pass
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	Appendix A– LTE	Pass
Modulation Characteristics	Part 2.1047	Appendix A– LTE	Pass
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Appendix A– LTE	Pass
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4)	Appendix A– LTE	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4)	See Section 5.2	Pass
Frequency Stability vs. Temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Appendix A– LTE	Pass
Frequency Stability vs. Voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54	Appendix A– LTE	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (Fundamental Frequency below 1GHz)/1.0dB (Fundamental Frequency above 1GHz) (provided by the customer).			
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015		

5.1.2 Test Limit

Test items	Limit																																
RF Output Power	LTE band 2/41: 2W EIRP LTE band 4/66: 1W EIRP LTE band 5: 7W ERP LTE band 12/17/71: 3W ERP																																
Peak-to-Average Power Ratio	LTE band 2/4/5/12/17/41/66/71: The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB Other bands: N/A report only																																
Modulation Characteristics	N/A																																
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A																																
Out of Band Emission at Antenna Terminals Field Strength of Spurious Radiation	LTE band 2, 4, 5, 12, 17, 66, 71: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. LTE band 41: For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.																																
Frequency Stability vs. Temperature Frequency Stability vs. Voltage	LTE band 2: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. LTE band 4, 12, 17, 41, 66, 71: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. LTE band 5: Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section. TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES <table><tr><th>Frequency range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile >3 watts (ppm)</th><th>Mobile ≤3 watts (ppm)</th></tr><tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr><tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr><tr><td>450 to 512</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr><tr><td>928 to 929</td><td>5.0</td><td>n/a</td><td>n/a</td></tr><tr><td>929 to 960</td><td>1.5</td><td>n/a</td><td>n/a</td></tr><tr><td>2110 to 2220</td><td>10.0</td><td>n/a</td><td>n/a</td></tr></table>	Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)	25 to 50	20.0	20.0	50.0	50 to 450	5.0	5.0	50.0	450 to 512	2.5	5.0	5.0	821 to 896	1.5	2.5	2.5	928 to 929	5.0	n/a	n/a	929 to 960	1.5	n/a	n/a	2110 to 2220	10.0	n/a	n/a
Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)																														
25 to 50	20.0	20.0	50.0																														
50 to 450	5.0	5.0	50.0																														
450 to 512	2.5	5.0	5.0																														
821 to 896	1.5	2.5	2.5																														
928 to 929	5.0	n/a	n/a																														
929 to 960	1.5	n/a	n/a																														
2110 to 2220	10.0	n/a	n/a																														

5.2 Field Strength of Spurious Radiation Measurement

Note: All bandwidths, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

LTE band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-56.57	-1.20	-57.77	-13.00	44.77	Vertical
5552.10	-55.22	4.26	-50.96	-13.00	37.96	Vertical
7402.00	-56.42	9.05	-47.37	-13.00	34.37	Vertical
3701.40	-55.74	-1.20	-56.94	-13.00	43.94	Horizontal
5552.10	-55.74	4.26	-51.48	-13.00	38.48	Horizontal
7402.00	-56.17	9.05	-47.12	-13.00	34.12	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-57.02	-0.13	-57.15	-13.00	44.15	Vertical
5640.00	-54.75	4.33	-50.42	-13.00	37.42	Vertical
7520.00	-56.15	7.49	-48.66	-13.00	35.66	Vertical
3760.00	-55.35	-0.13	-55.48	-13.00	42.48	Horizontal
5640.00	-55.27	4.33	-50.94	-13.00	37.94	Horizontal
7520.00	-56.15	7.49	-48.66	-13.00	35.66	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-56.78	1.02	-55.76	-13.00	42.76	Vertical
5724.90	-54.32	4.09	-50.23	-13.00	37.23	Vertical
7633.20	-56.05	8.06	-47.99	-13.00	34.99	Vertical
3816.60	-55.69	1.02	-54.67	-13.00	41.67	Horizontal
5724.90	-55.19	4.09	-51.10	-13.00	38.10	Horizontal
7633.20	-56.33	8.06	-48.27	-13.00	35.27	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 4 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-53.10	-1.85	-54.95	-13.00	41.95	Vertical
5132.10	-57.11	4.23	-52.88	-13.00	39.88	Vertical
6842.80	-56.63	7.50	-49.13	-13.00	36.13	Vertical
3421.40	-54.13	-1.85	-55.98	-13.00	42.98	Horizontal
5132.10	-57.08	4.23	-52.85	-13.00	39.85	Horizontal
6842.80	-56.93	7.50	-49.43	-13.00	36.43	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-52.61	-1.03	-53.64	-13.00	40.64	Vertical
5197.50	-56.68	3.68	-53.00	-13.00	40.00	Vertical
6930.00	-56.42	6.95	-49.47	-13.00	36.47	Vertical
3465.00	-54.53	-1.03	-55.56	-13.00	42.56	Horizontal
5197.50	-56.67	3.68	-52.99	-13.00	39.99	Horizontal
6930.00	-56.67	6.95	-49.72	-13.00	36.72	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3508.60	-52.52	-0.67	-53.19	-13.00	40.19	Vertical
5262.90	-56.66	3.45	-53.21	-13.00	40.21	Vertical
7017.20	-56.47	7.55	-48.92	-13.00	35.92	Vertical
3508.60	-54.83	-0.67	-55.50	-13.00	42.50	Horizontal
5262.90	-56.22	3.45	-52.77	-13.00	39.77	Horizontal
7017.20	-56.22	7.55	-48.67	-13.00	35.67	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-48.09	-9.31	-57.40	-13.00	44.40	Vertical
2474.10	-45.13	-9.74	-54.87	-13.00	41.87	Vertical
3298.80	-54.45	-1.71	-56.16	-13.00	43.16	Vertical
1649.40	-47.65	-9.31	-56.96	-13.00	43.96	Horizontal
2474.10	-45.44	-9.74	-55.18	-13.00	42.18	Horizontal
3298.80	-54.56	-1.71	-56.27	-13.00	43.27	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-48.00	-8.43	-56.43	-13.00	43.43	Vertical
2509.50	-45.18	-9.45	-54.63	-13.00	41.63	Vertical
3346.00	-54.72	-2.15	-56.87	-13.00	43.87	Vertical
1673.30	-47.46	-8.43	-55.89	-13.00	42.89	Horizontal
2509.50	-45.51	-9.45	-54.96	-13.00	41.96	Horizontal
3346.00	-54.79	-2.15	-56.94	-13.00	43.94	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-48.05	-7.58	-55.63	-13.00	42.63	Vertical
2544.90	-45.02	-9.10	-54.12	-13.00	41.12	Vertical
3393.20	-54.79	-2.40	-57.19	-13.00	44.19	Vertical
1696.60	-47.93	-7.58	-55.51	-13.00	42.51	Horizontal
2544.90	-45.17	-9.10	-54.27	-13.00	41.27	Horizontal
3393.20	-54.79	-2.40	-57.19	-13.00	44.19	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 12 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.40	-30.62	-9.65	-40.27	-13.00	27.27	Vertical
2099.10	-53.01	-7.33	-60.34	-13.00	47.34	Vertical
2798.80	-56.13	-5.16	-61.29	-13.00	48.29	Vertical
1399.40	-30.34	-9.65	-39.99	-13.00	26.99	Horizontal
2099.10	-53.40	-7.33	-60.73	-13.00	47.73	Horizontal
2798.80	-56.21	-5.16	-61.37	-13.00	48.37	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-30.49	-9.64	-40.13	-13.00	27.13	Vertical
2122.50	-52.96	-6.67	-59.63	-13.00	46.63	Vertical
2830.00	-56.31	-4.96	-61.27	-13.00	48.27	Vertical
1415.00	-30.13	-9.64	-39.77	-13.00	26.77	Horizontal
2122.50	-53.54	-6.67	-60.21	-13.00	47.21	Horizontal
2830.00	-56.53	-4.96	-61.49	-13.00	48.49	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.60	-30.13	-9.83	-39.96	-13.00	26.96	Vertical
2145.90	-53.06	-6.87	-59.93	-13.00	46.93	Vertical
2861.20	-56.06	-5.01	-61.07	-13.00	48.07	Vertical
1430.60	-29.89	-9.83	-39.72	-13.00	26.72	Horizontal
2145.90	-53.82	-6.87	-60.69	-13.00	47.69	Horizontal
2861.20	-56.05	-5.01	-61.06	-13.00	48.06	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 17 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1413.00	-35.71	-9.64	-45.35	-13.00	32.35	Vertical
2119.50	-54.23	-6.65	-60.88	-13.00	47.88	Vertical
2826.00	-55.51	-4.96	-60.47	-13.00	47.47	Vertical
1413.00	-35.51	-9.64	-45.15	-13.00	32.15	Horizontal
2119.50	-54.30	-6.65	-60.95	-13.00	47.95	Horizontal
2826.00	-55.57	-4.96	-60.53	-13.00	47.53	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1420.00	-36.21	-9.64	-45.85	-13.00	32.85	Vertical
2130.00	-53.93	-6.73	-60.66	-13.00	47.66	Vertical
2840.00	-55.26	-4.98	-60.24	-13.00	47.24	Vertical
1420.00	-35.33	-9.64	-44.97	-13.00	31.97	Horizontal
2130.00	-54.13	-6.73	-60.86	-13.00	47.86	Horizontal
2840.00	-55.91	-4.98	-60.89	-13.00	47.89	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.00	-36.67	-9.75	-46.42	-13.00	33.42	Vertical
2140.50	-53.84	-6.82	-60.66	-13.00	47.66	Vertical
2854.00	-55.01	-5.00	-60.01	-13.00	47.01	Vertical
1427.00	-35.58	-9.75	-45.33	-13.00	32.33	Horizontal
2140.50	-54.11	-6.82	-60.93	-13.00	47.93	Horizontal
2854.00	-56.22	-5.00	-61.22	-13.00	48.22	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-55.21	3.28	-51.93	-25.00	26.93	Vertical
7495.50	-57.48	7.59	-49.89	-25.00	24.89	Vertical
9994.00	-56.64	11.21	-45.43	-25.00	20.43	Vertical
4997.00	-54.81	3.28	-51.53	-25.00	26.53	Horizontal
7495.50	-57.01	7.59	-49.42	-25.00	24.42	Horizontal
9994.00	-56.67	11.21	-45.46	-25.00	20.46	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-55.64	3.77	-51.87	-25.00	26.87	Vertical
7779.00	-57.91	9.02	-48.89	-25.00	23.89	Vertical
10372.00	-56.30	11.20	-45.10	-25.00	20.10	Vertical
5186.00	-54.80	3.77	-51.03	-25.00	26.03	Horizontal
7779.00	-57.18	9.02	-48.16	-25.00	23.16	Horizontal
10372.00	-57.01	11.20	-45.81	-25.00	20.81	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-55.15	3.78	-51.37	-25.00	26.37	Vertical
8062.50	-57.48	10.50	-46.98	-25.00	21.98	Vertical
10750.00	-55.93	12.61	-43.32	-25.00	18.32	Vertical
5375.00	-54.44	3.78	-50.66	-25.00	25.66	Horizontal
8062.50	-57.33	10.50	-46.83	-25.00	21.83	Horizontal
10750.00	-57.41	12.61	-44.80	-25.00	19.80	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-54.14	-1.85	-55.99	-13.00	42.99	Vertical
5132.10	-56.25	4.23	-52.02	-13.00	39.02	Vertical
6842.80	-56.61	7.50	-49.11	-13.00	36.11	Vertical
3421.40	-53.96	-1.85	-55.81	-13.00	42.81	Horizontal
5132.10	-56.38	4.23	-52.15	-13.00	39.15	Horizontal
6842.80	-56.00	7.50	-48.50	-13.00	35.50	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-54.63	-0.74	-55.37	-13.00	42.37	Vertical
5235.00	-56.54	3.54	-53.00	-13.00	40.00	Vertical
6980.00	-56.12	7.17	-48.95	-13.00	35.95	Vertical
3490.00	-54.08	-0.74	-54.82	-13.00	41.82	Horizontal
5235.00	-55.95	3.54	-52.41	-13.00	39.41	Horizontal
6980.00	-55.95	7.17	-48.78	-13.00	35.78	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-54.78	-0.57	-55.35	-13.00	42.35	Vertical
5337.90	-56.50	3.78	-52.72	-13.00	39.72	Vertical
7117.20	-56.41	7.30	-49.11	-13.00	36.11	Vertical
3558.60	-54.36	-0.57	-54.93	-13.00	41.93	Horizontal
5337.90	-55.47	3.78	-51.69	-13.00	38.69	Horizontal
7117.20	-55.48	7.30	-48.18	-13.00	35.18	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 71 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1331.00	-44.39	-9.84	-54.23	-13.00	41.23	Vertical
1996.50	-50.91	-7.95	-58.86	-13.00	45.86	Vertical
2662.00	-55.89	-6.17	-62.06	-13.00	49.06	Vertical
1331.00	-44.24	-9.84	-54.08	-13.00	41.08	Horizontal
1996.50	-51.62	-7.95	-59.57	-13.00	46.57	Horizontal
2662.00	-55.85	-6.17	-62.02	-13.00	49.02	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361.00	-44.71	-9.72	-54.43	-13.00	41.43	Vertical
2041.50	-51.31	-8.57	-59.88	-13.00	46.88	Vertical
2722.00	-56.26	-5.96	-62.22	-13.00	49.22	Vertical
1361.00	-43.94	-9.72	-53.66	-13.00	40.66	Horizontal
2041.50	-51.49	-8.57	-60.06	-13.00	47.06	Horizontal
2722.00	-56.16	-5.96	-62.12	-13.00	49.12	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1391.00	-45.18	-9.66	-54.84	-13.00	41.84	Vertical
2086.50	-51.58	-7.69	-59.27	-13.00	46.27	Vertical
2782.00	-55.87	-5.36	-61.23	-13.00	48.23	Vertical
1391.00	-43.54	-9.66	-53.20	-13.00	40.20	Horizontal
2086.50	-51.32	-7.69	-59.01	-13.00	46.01	Horizontal
2782.00	-56.25	-5.36	-61.61	-13.00	48.61	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

-----End of report-----