

# FCC RF Test Report

## (WCDMA)

**Applicant:** TECNO MOBILE LIMITED

**Address of Applicant:** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE  
19-25 SHAN MEI STREET FOTAN NT HONGKONG

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: BF7s

Trade Mark: TECNO

**FCC ID:** 2ADYY-BF7S

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

**Date of Sample Receipt:** 16 Jan., 2023

**Date of Test:** 17 Jan., to 20 Feb., 2023

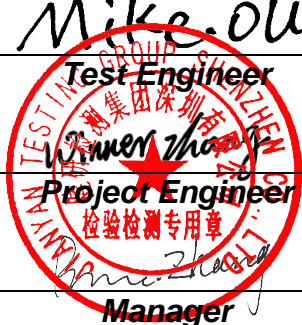
**Date of Report Issued:** 21 Feb., 2023

**Test Result:** PASS

**Tested by:** Mike OU **Date:** 21 Feb., 2023  
Test Engineer

**Reviewed by:** Wenwen Zhang **Date:** 21 Feb., 2023  
Project Engineer

**Approved by:** Wenwen Zhang **Date:** 21 Feb., 2023  
Manager



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.

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## 1 Version

Version No.	Date	Description
00	21 Feb., 2023	Original

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### 3 General Information

#### 3.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

#### 3.2 General Description of E.U.T.

Product Name:	Mobile Phone	
Model No.:	BF7s	
Operation Frequency Range:	WCDMA band II:	1852.4 MHz - 1907.6 MHz
	WCDMA band IV:	1712.4 MHz - 1752.6 MHz
	WCDMA band V:	826.4 MHz - 846.6 MHz
Modulation Type:	<input checked="" type="checkbox"/> RMC(QPSK) <input checked="" type="checkbox"/> HSUPA(QPSK) <input checked="" type="checkbox"/> HSDPA(QPSK,16QAM)	
Antenna Type:	Internal Antenna	
Antenna Gain:	WCDMA band II:	1.6 dBi (declare by Applicant)
	WCDMA band IV:	1.7 dBi (declare by Applicant)
	WCDMA band V:	-4.2 dBi (declare by Applicant)
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4900mAh	
AC Adapter:	Model: U100TSA Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

### 3.3 Test Mode and Environment

Test Mode:	
RMC mode:	Keep the EUT communication with simulated station in RMC mode
HSDPA mode:	Keep the EUT communication with simulated station in HSDPA mode
HSUPA mode:	Keep the EUT communication with simulated station in HSUPA mode
<b>Remark:</b> 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: 3.85 Vdc, Extreme: Low 3.45 Vdc, High 4.35 Vdc

### 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 ~ 1GHz) (3m SAC)	3.8 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	3.6 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	5.34 dB
<b>Note:</b> 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
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### 3.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC - Designation No.: CN1211</b> 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.</li> <li>● <b>ISED – CAB identifier.: CN0021</b> 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.</li> <li>● <b>CNAS - Registration No.: CNAS L15527</b> 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.</li> <li>● <b>A2LA - Registration No.: 4346.01</b> 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: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a></li> </ul>
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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
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2022	03-06-2023
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	04-07-2022	04-06-2023
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	04-07-2022	04-06-2023
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	04-07-2022	04-06-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023
				01-10-2023	01-09-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-20-2022	01-19-2023
				01-10-2023	01-09-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	03-30-2022	03-29-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023
				01-10-2023	01-09-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-17-2022	10-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023
				01-18-2023	01-17-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-20-2022	01-19-2023
				01-18-2023	01-17-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-20-2022	01-19-2023
				01-18-2023	01-17-2024
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020B	WXJ081-1	06-29-2022	06-28-2023
Simulated Station	Rohde & Schwarz	CMW500	WXJ081	06-29-2022	06-28-2023
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	03-19-2021	03-18-2023
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

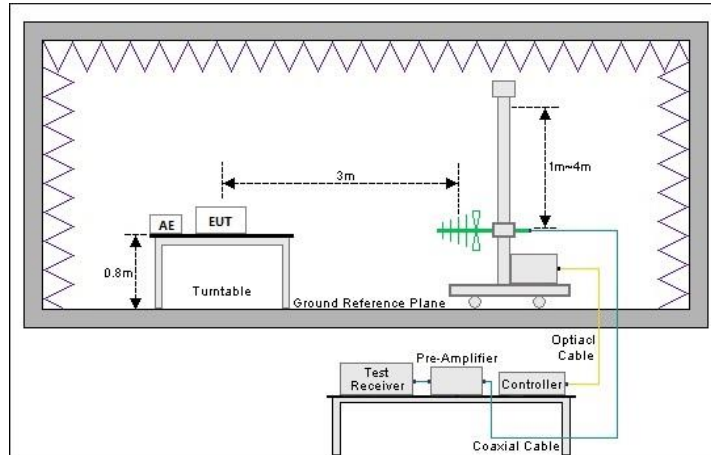
According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

<b>WCDMA band II</b>					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
9262	1852.4	9400	1880.0	9538	1907.6
<b>WCDMA band IV</b>					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1312	1712.4	1413	1732.6	1513	1752.6
<b>WCDMA band V</b>					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
4132	826.4	4183	836.6	4233	846.6

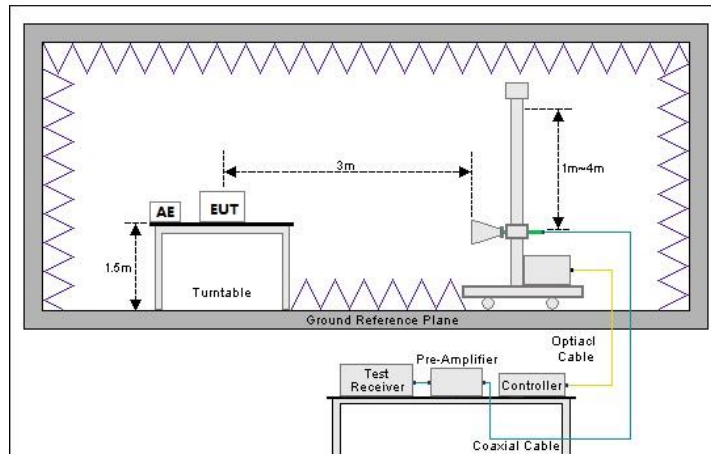
## 4.2 Test Setup

### 1) Radiated emission measurement:

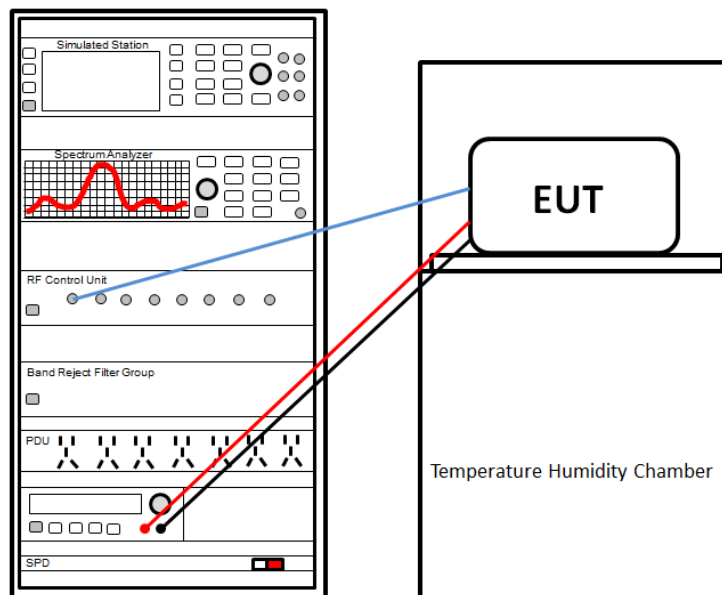
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



### 2) Conducted test method





### 4.3 Test Procedure

Test method	Test step
Radiated emission	<p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the table top 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.</li> <li>EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; 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.</li> <li>Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the table top 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.</li> <li>EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; 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.</li> <li>Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol>
Conducted test method	<ol style="list-style-type: none"> <li>The WCDMA antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>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.</li> </ol>

## 5 Test Results

### 5.1 Summary

#### 5.1.1 Clause and Data Summary

This report was amended on FCC ID: 2ADYY-BF7. The original report: JYTSZ-R12-2201868, issued by JianYan Testing Group Shenzhen Co., Ltd. The BF7s and the original model were identical inside, the electrical circuit design, layout, components used and internal wiring, the differences between them as below: Update the model, add LTE Band 13 by software, and closed LTE 64QAM uplink by software. So only add part of spot-check.

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 (d)(4)	1. Please refer to JYTSZ-R12-2201868 report. 2. See Section 5.2.1.	Please refer to JYTSZ-R12-2201868 report.
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50(d)(5)	Please refer to JYTSZ-R12-2201868 report	Please refer to JYTSZ-R12-2201868 report
Modulation Characteristics	Part 2.1047	Please refer to JYTSZ-R12-2201868 report	Please refer to JYTSZ-R12-2201868 report
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Please refer to JYTSZ-R12-2201868 report	Please refer to JYTSZ-R12-2201868 report
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	Please refer to JYTSZ-R12-2201868 report	Please refer to JYTSZ-R12-2201868 report
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	1. Please refer to JYTSZ-R12-2201868 report. 2. See Section 5.2.2.	Please refer to JYTSZ-R12-2201868 report
Frequency Stability vs. Temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Please refer to JYTSZ-R12-2201868 report	Please refer to JYTSZ-R12-2201868 report
Frequency Stability vs. Voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	Please refer to JYTSZ-R12-2201868 report	Please refer to JYTSZ-R12-2201868 report
<b>Remark:</b>			
1. Please refer to JYTSZ-R12-2201868 report, issued by JianYan Testing Group Shenzhen Co., Ltd.			
2. Pass: The EUT complies with the essential requirements in the standard.			
3. 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).			
<b>Test Method:</b>	ANSI/TIA-603-E-2016 ANSI C63.26-2015		

### 5.1.2 Test Limit

Test items	Limit																																
RF Output Power	<b>WCDMA band II:</b> 2W EIRP <b>WCDMA band IV:</b> 1W EIRP <b>WCDMA band V:</b> 7W ERP																																
Peak-to-Average Power Ratio	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB																																
Modulation Characteristics	N/A																																
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A																																
Out of Band Emission at Antenna Terminals  Field Strength of Spurious Radiation	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.																																
Frequency Stability vs. Temperature  Frequency Stability vs. Voltage	<p><b>WCDMA band II:</b> The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.</p> <p><b>WCDMA band IV:</b> The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.</p> <p><b>WCDMA band V:</b> 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.</p> <p style="text-align: center;"><b>TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Base, fixed (ppm)</th> <th>Mobile &gt;3 watts (ppm)</th> <th>Mobile ≤3 watts (ppm)</th> </tr> </thead> <tbody> <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> </tbody> </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 Test Results

### 5.2.1 RF Output Power Spot-check.

Band	Type	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	Original ERP/EIRP (dBm)	deviation in mW (%)	ERP/EIRP Limit (dBm)	Verdict
Band2	Voice	9262	23.28	24.88	24.97	-2.05	33.01	PASS
Band2	TestMode	9262	23.25	24.85	25.05	-4.50	33.01	PASS
Band2	TestMode	9400	23.42	25.02	25.17	-3.39	33.01	PASS
Band2	Voice	9400	23.41	25.01	25.14	-2.95	33.01	PASS
Band2	TestMode	9538	23.45	25.05	25.17	-2.73	33.01	PASS
Band2	Voice	9538	23.42	25.02	25.11	-2.05	33.01	PASS
Band4	Voice	1312	23.82	25.52	25.15	8.89	30.00	PASS
Band4	TestMode	1312	23.86	25.56	25.16	9.65	30.00	PASS
Band4	Voice	1413	23.89	25.59	25.41	4.23	30.00	PASS
Band4	TestMode	1413	23.88	25.58	25.45	3.04	30.00	PASS
Band4	TestMode	1513	23.86	25.56	25.31	5.93	30.00	PASS
Band4	Voice	1513	23.83	25.53	25.22	7.40	30.00	PASS
Band5	Voice	4132	23.89	17.54	17.28	6.17	38.45	PASS
Band5	TestMode	4132	23.89	17.54	17.26	6.66	38.45	PASS
Band5	TestMode	4183	23.91	17.56	17.46	2.33	38.45	PASS
Band5	Voice	4183	23.82	17.47	17.45	0.46	38.45	PASS
Band5	Voice	4233	23.79	17.44	17.38	1.39	38.45	PASS
Band5	TestMode	4233	23.82	17.47	17.36	2.57	38.45	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band 2, Band 4)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band 5)

**5.2.2 Field Strength of Spurious Radiation Measurement Spot-check**

WCDMA band II								
Highest channel								
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Original Level (dBm)	deviation in mW (%)	Limit (dBm)	Margin (dB)	Polarization
3815.20	-42.49	-0.77	-43.26	-43.57	7.40	-13.00	30.26	Vertical
5722.80	-43.53	8.52	-35.01	-35.34	7.89	-13.00	22.01	Vertical
3815.20	-37.03	-1.25	-38.28	-38.69	9.90	-13.00	25.28	Horizontal
5722.80	-42.43	5.82	-36.61	-36.44	-3.84	-13.00	23.61	Horizontal

**Remark:**  
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

WCDMA band IV								
Lowest channel								
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Original Level (dBm)	deviation in mW (%)	Limit (dBm)	Margin (dB)	Polarization
3424.40	-41.71	-4.09	-45.80	-45.33	-10.26	-13.00	32.80	Vertical
5136.60	-49.36	4.64	-44.72	-45.12	9.65	-13.00	31.72	Vertical
6848.80	-52.06	10.69	-41.37	-41.16	-4.72	-13.00	28.37	Vertical
3424.40	-40.51	-4.19	-44.70	-45.16	11.17	-13.00	31.70	Horizontal
5136.60	-48.85	4.17	-44.68	-44.57	-2.50	-13.00	31.68	Horizontal
6848.80	-45.82	9.63	-36.19	-36.00	-4.28	-13.00	23.19	Horizontal

**Remark:**  
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.

WCDMA band V								
Highest channel								
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Original Level (dBm)	deviation in mW (%)	Limit (dBm)	Margin (dB)	Polarization
1697.60	-49.68	-11.54	-61.22	-60.98	-5.38	-13.00	48.22	Vertical
2546.40	-49.42	-6.24	-55.66	-55.49	-3.84	-13.00	42.66	Vertical
3395.20	-48.36	-5.05	-53.41	-53.54	3.04	-13.00	40.41	Vertical
1697.60	-46.29	-11.48	-57.77	-57.81	0.93	-13.00	44.77	Horizontal
2546.40	-49.24	-6.56	-55.80	-55.50	-6.67	-13.00	42.80	Horizontal
3395.20	-48.53	-5.16	-53.69	-54.06	8.89	-13.00	40.69	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-----