

JianYan Testing Group Shenzhen Co., Ltd.

Report No.: JYTSZ-R12-2301610

FCC RF Test Report

(WCDMA)

Report No.: JYTSZ-R12-2301610

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.: KJ7s

Trade Mark: TECNO

FCC ID: 2ADYY-KJ7S

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

Date of Sample Receipt: 17 Nov., 2023

Date of Test: 18 Nov., to 28 Nov., 2023

Date of Report Issued: 29 Nov., 2023

Test Result: PASS

Tested by: Date: 29 Nov., 2023

Reviewed by: 29 Nov., 2023

Approved by: Date: 29 Nov., 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	29 Nov., 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.

O.E General Becompany	2 General Description of E.G.1.						
Product Name:	Mobile Phone						
Model No.:	KJ7s						
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 M	Hz				
Modulation Type:	⊠RMC(QPSK)	⊠HSUPA(QPSK)	⊠HSDPA(QPSK,16QAM)				
Antenna Type:	Internal Antenna						
Antenna Gain:	WCDMA band II:	CDMA band II: -2.80 dBi (declare by Applicant)					
	WCDMA band IV:	-2.70 dBi (declare by	Applicant)				
	WCDMA band V:	-6.89 dBi (declare by	Applicant)				
Power Supply:	Rechargeable Li-ior	n Polymer Battery DC3	.87V, 4900mAh				
AC Adapter:	Model: U330TSB						
	Input: AC100-240V,	50/60Hz, 1.5A					
	Output: DC 5.0V, 3.0A 15.0W or 5.0-10.0V, 3.3A or 11.0V, 3.0A 33.0W MAX						
Test Sample Condition:	The test samples we defects.	ere provided in good w	orking order with no visible				



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3.3 Test Mode and Environment

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301385.

3.4 Description of Test Auxiliary Equipment

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301385.

3.5 Measurement Uncertainty

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301385.

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

3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao 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

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301385.

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-152-C 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



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4 Measurement Setup and Procedure

4.1 Test Channel

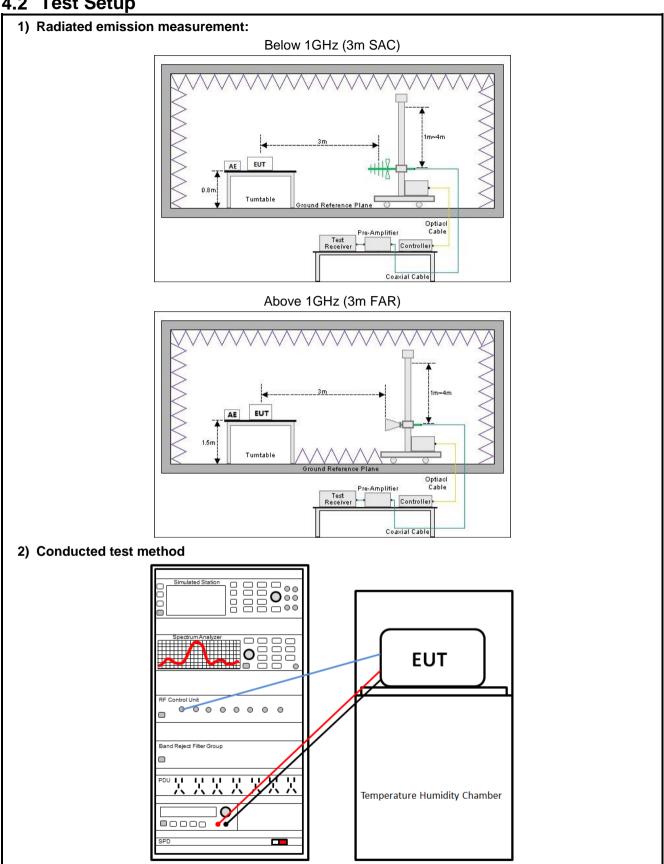
According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

frequency points are as follows:							
WCDMA band II							
Lowe	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		
	WCDMA band IV						
Lowe	est 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		
	WCDMA band V						
Lowe	est channel	Midd	le channel	Highe	st 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





4.3 Test Procedure

is lest flocedule				
Test method	Test step			
Radiated emission	 For below 1GHz: 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. 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. 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: 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. 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. Open the test software to control the test antenna and test turntable. Perform 			
Conducted test method	 the test, save the test results, and export the test data. The WCDMA antenna port of EUT was connected to the test port of the test system through an RF cable. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 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

This report is revised according to the JYTSZ-R12-2301385 report, FCC ID: 2ADYY-KJ7 issued by JianYan Testing Group Shenzhen Co., Ltd. Differences: Dual card to single card, change the SIM card seat, by replacing the software and card to achieve, PCBA has not changed. And model update, so need to spot-check Output Power.

Test items	Standard clause	Test data	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4)	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50(d)(5)	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
Modulation Characteristics	Part 2.1047	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
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 report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
Frequency Stability vs. Temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.
Frequency Stability vs. Voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	Please refer to report No.: JYTSZ-R12-2301385.	Please refer to report No.: JYTSZ-R12-2301385.

Remark:

Test Method:

ANSI/TIA-603-E-2016 ANSI C63.26-2015

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^{1.} Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301385 issue by JianYan Testing Group Shenzhen Co., Ltd.

^{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).



5.1.2 Test Limit

Test items	Limit				
	WCDMA band II: 2W EIRP				
RF Output Power	WCDMA band IV: 1W EIRP				
	WCDMA band V: 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	N/A				
99% Occupied Bandwidth	IN/A				
Out of Band Emission at Antenna Terminals	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power				
Field Strength of Spurious Radiation	(P) by a factor of at least 43 + 10 log(P) dB.				
	WCDMA band II:				
	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.				
	WCDMA band IV:				
	The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.				
Frequency Stability vs. Temperature	WCDMA band V:				
Frequency Stability vs. Voltage	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				
	Mobile				
	25 to 50 20.0 20.0 50.0 50.0 50.0 50.0 50.0 5				
	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 RF Output Power Spot-check

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Туре	Channel	Conducted	ERP/EIRP	ERP/EIRP	Verdict
	7.		Power (dBm)	(dBm)	Limit (dBm)	
Band2	Voice	9262	22.56	19.76	33.01	PASS
Band2	TestMode	9262	22.62	19.82	33.01	PASS
Band2	TestMode	9400	22.63	19.83	33.01	PASS
Band2	Voice	9400	22.64	19.84	33.01	PASS
Band2	Voice	9538	22.32	19.52	33.01	PASS
Band2	TestMode	9538	22.38	19.58	33.01	PASS
Band4	TestMode	1312	23.19	20.49	30.00	PASS
Band4	Voice	1312	23.18	20.48	30.00	PASS
Band4	Voice	1413	22.92	20.22	30.00	PASS
Band4	TestMode	1413	22.94	20.24	30.00	PASS
Band4	Voice	1513	23.16	20.46	30.00	PASS
Band4	TestMode	1513	23.14	20.44	30.00	PASS
Band5	TestMode	4132	23.94	14.9	38.45	PASS
Band5	Voice	4132	23.85	14.81	38.45	PASS
Band5	TestMode	4183	24.00	14.96	38.45	PASS
Band5	Voice	4183	23.94	14.9	38.45	PASS
Band5	TestMode	4233	24.03	14.99	38.45	PASS
Band5	Voice	4233	23.92	14.88	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.64	19.84	33.01	PASS
Band2	9262	2	22.08	19.28	33.01	PASS
Band2	9262	3	22.03	19.23	33.01	PASS
Band2	9262	4	22.03	19.23	33.01	PASS
Band2	9400	1	22.66	19.86	33.01	PASS
Band2	9400	2	22.04	19.24	33.01	PASS
Band2	9400	3	22.04	19.24	33.01	PASS
Band2	9400	4	22.03	19.23	33.01	PASS
Band2	9538	1	22.38	19.58	33.01	PASS
Band2	9538	2	21.77	18.97	33.01	PASS
Band2	9538	3	21.76	18.96	33.01	PASS
Band2	9538	4	21.82	19.02	33.01	PASS
Band4	1312	1	23.22	20.52	30.00	PASS
Band4	1312	2	22.68	19.98	30.00	PASS
Band4	1312	3	22.67	19.97	30.00	PASS
Band4	1312	4	22.69	19.99	30.00	PASS
Band4	1413	1	22.93	20.23	30.00	PASS
Band4	1413	2	22.41	19.71	30.00	PASS
Band4	1413	3	22.40	19.7	30.00	PASS

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Band4	1413	4	22.39	19.69	30.00	PASS
Band4	1513	1	23.14	20.44	30.00	PASS
Band4	1513	2	22.62	19.92	30.00	PASS
Band4	1513	3	22.61	19.91	30.00	PASS
Band4	1513	4	22.62	19.92	30.00	PASS
Band5	4132	1	23.94	14.9	38.5	PASS
Band5	4132	2	23.41	14.37	38.5	PASS
Band5	4132	3	23.41	14.37	38.5	PASS
Band5	4132	4	23.41	14.37	38.5	PASS
Band5	4183	1	23.98	14.94	38.5	PASS
Band5	4183	2	23.44	14.4	38.5	PASS
Band5	4183	3	23.46	14.42	38.5	PASS
Band5	4183	4	23.43	14.39	38.5	PASS
Band5	4233	1	23.96	14.92	38.5	PASS
Band5	4233	2	23.40	14.36	38.5	PASS
Band5	4233	3	23.41	14.37	38.5	PASS
Band5	4233	4	23.42	14.38	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Dando	0000	4	` ,	` '	,	DACC
Band2	9262	1	20.62	17.82	33.01	PASS
Band2	9262	2	21.11	18.31	33.01	PASS
Band2	9262	3	21.59	18.79	33.01	PASS
Band2	9262	4	20.63	17.83	33.01	PASS
Band2	9262	5	22.58	19.78	33.01	PASS
Band2	9400	1	20.61	17.81	33.01	PASS
Band2	9400	2	21.11	18.31	33.01	PASS
Band2	9400	3	21.59	18.79	33.01	PASS
Band2	9400	4	20.65	17.85	33.01	PASS
Band2	9400	5	22.57	19.77	33.01	PASS
Band2	9538	1	20.34	17.54	33.01	PASS
Band2	9538	2	20.83	18.03	33.01	PASS
Band2	9538	3	21.32	18.52	33.01	PASS
Band2	9538	4	20.36	17.56	33.01	PASS
Band2	9538	5	21.80	19	33.01	PASS
Band4	1312	1	21.28	18.58	30.00	PASS
Band4	1312	2	21.75	19.05	30.00	PASS
Band4	1312	3	22.21	19.51	30.00	PASS
Band4	1312	4	21.28	18.58	30.00	PASS
Band4	1312	5	23.26	20.56	30.00	PASS
Band4	1413	1	21.01	18.31	30.00	PASS
Band4	1413	2	21.51	18.81	30.00	PASS
Band4	1413	3	21.99	19.29	30.00	PASS
Band4	1413	4	21.00	18.3	30.00	PASS
Band4	1413	5	22.98	20.28	30.00	PASS
Band4	1513	1	21.24	18.54	30.00	PASS

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						_
Band4	1513	2	21.74	19.04	30.00	PASS
Band4	1513	3	22.15	19.45	30.00	PASS
Band4	1513	4	21.24	18.54	30.00	PASS
Band4	1513	5	23.17	20.47	30.00	PASS
Band5	4132	1	21.92	12.88	38.5	PASS
Band5	4132	2	22.41	13.37	38.5	PASS
Band5	4132	3	22.92	13.88	38.5	PASS
Band5	4132	4	21.91	12.87	38.5	PASS
Band5	4132	5	23.94	14.9	38.5	PASS
Band5	4183	1	21.96	12.92	38.5	PASS
Band5	4183	2	22.45	13.41	38.5	PASS
Band5	4183	3	22.96	13.92	38.5	PASS
Band5	4183	4	21.99	12.95	38.5	PASS
Band5	4183	5	23.96	14.92	38.5	PASS
Band5	4233	1	21.97	12.93	38.5	PASS
Band5	4233	2	22.46	13.42	38.5	PASS
Band5	4233	3	22.97	13.93	38.5	PASS
Band5	4233	4	21.98	12.94	38.5	PASS
Band5	4233	5	24.00	14.96	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2 &4) ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

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