

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100568

FCC REPORT

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-

35 SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: L6502S

Trade mark: TECNO

FCC ID: 2ADYY-L6502S

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 15 Apr., 2021

Date of Test: 16 Apr., to 07 May, 2021

Date of report issued: 25 May, 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	25 May, 2021	Original

Tested by:	Mike ou	Date:	25 May, 2021	
	Test Engineer			

Reviewed by:

Winner Thang
Date: 25 May, 2021

Project Engineer





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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A - BLE	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A - BLE	Pass
Power Spectral Density	15.247 (e)	Appendix A - BLE	Pass
Conducted Band Edge	45.047.(4)	Appendix A - BLE	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	45.005.8.45.000	Appendix A - BLE	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

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5 General Information

5.1 Client Information

Applicant:	TECNO MOBILE LIMITED	
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHA MEI STREET FOTAN NT	
Manufacturer:	TECNO MOBILE LIMITED	
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT	
Factory:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.	
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China	

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	L6502S
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.25 dBi
Power supply:	Rechargeable Li-Polymer Battery DC3.85V-3900mAh
AC adapter:	Model: A18A-050100U-US2
	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note.

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

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5.3 Test environment and mode

Operating Environment:	Operating Environment:				
Temperature:	24.0 °C				
Humidity:	54 % RH				
Atmospheric Pressure:	1010 mbar				
Test mode:					
Transmitting mode	Keep the EUT in continuous transmitting with modulation				

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 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 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.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 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

5.7 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@ccis-cb.com, Website: http://www.ccis-cb.com

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5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	V	ersion: 6.110919b)
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021
Cable	HP	10503A	N/A	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919l	0

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		·
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021

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6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is 1.25 dBi.

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6.2 Conducted Emission

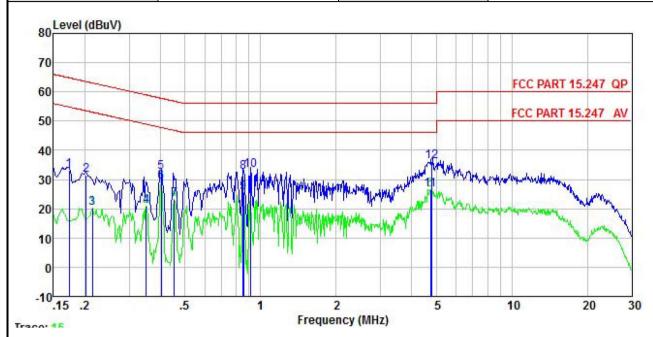
Test Requirement:	FCC Part 15 C Section 15.207	7				
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	·	Limit (dBuV)			
-	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithn	n of the frequency.				
Test procedure:	 The E.U.T and simulators line impedance stabilizati 500hm/50uH coupling im The peripheral devices at LISN that provides a 500 termination. (Please refer photographs). Both sides of A.C. line are interference. In order to fi positions of equipment ar according to ANSI C63.1 	nich provides a ing equipment. main power through a dance with 500hm the test setup and conducted on, the relative bles must be changed				
Test setup:	Reference	Plane				
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne	EMI Receiver	– AC power			
	Test table height=0.8m					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details	i				
Test results:	Passed					

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Measurement Data:

Product name:	Mobile Phone	Product model:	L6502S
Test by:	Mike	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>ā</u>	<u>ab</u>	dBu₹	dBu∜	<u>ab</u>	
1	0.173	33.89	-0.58	-0.10	0.01	33.22	3. E 9. T. E 9 E 9 T. C.	-31.59	14 Page 17 Carlo
1 2 3 4 5 6 7 8 9	0.202 0.214	32.14 20.98	-0.59 -0.58		0.04 0.03	31.43 20.25		-32.11 -32.80	QF Average
4 5	0.350 0.402	21.34 32.55	-0.51 -0.48	0.10 0.42	0.02 0.04	20.95 32.53		-28.01 -25.28	Average OP
6	0.402	29.16	-0.48	0.42	0.04	29.14	47.81	-18.67	Average
7 8	0.454 0.853	23.73 33.07	-0.45 -0.58	-0.01 0.07	0.03 0.04	23.30 32.60		-23.50 -23.40	Average QP
9 10	0.857 0.914	25.88 33.42	-0.58 -0.60	0.09 0.24	0.04 0.04	25.43		-20.57 -22.90	Average
11	4.746	26.91	-0.39	0.24	0.04	33.10 26.66	46.00	-19.34	Äverage
12	4.797	36.45	-0.39	0.06	0.09	36.21	56.00	-19.79	QP

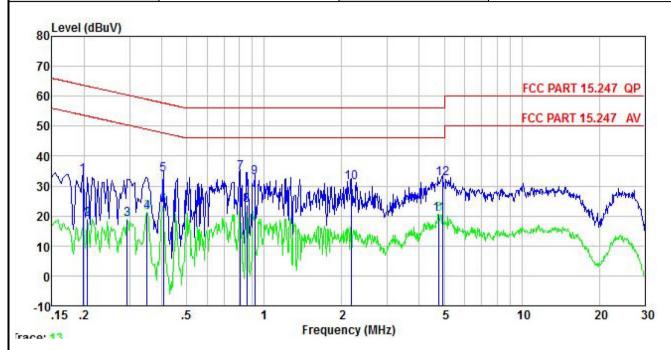
Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

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Product name:	Mobile Phone	Product model:	L6502S
Test by:	Mike	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor		Cable Loss	Level	Limit Line	Over Limit	Remark
=	MHz	dBu∜	<u>ab</u>	<u>ab</u>	<u>ap</u>	dBu₹	dBu√	<u>dB</u>	
1	0.198	34.24	-0.67	0.00	0.04	33.61	63.71	-30.10	QP
2	0.206	19.66	-0.67	0.00	0.04	19.03	53.36	-34.33	Average
3	0.294	19.68	-0.67	0.01	0.03	19.05	50.41	-31.36	Average
4	0.350	21.86	-0.65	-0.03	0.02	21.20	48.96	-27.76	Average
5	0.406	34.61	-0.63	-0.05	0.04	33.97	57.73	-23.76	QP
1 2 3 4 5 6 7 8 9	0.406	24.32	-0.63	-0.05	0.04	23.68	47.73	-24.05	Average
7	0.809	35.05	-0.66	0.06	0.03	34.48	56.00	-21.52	QP
8	0.857	24.13	-0.66	0.06	0.04	23.57	46.00	-22.43	Average
9	0.918	33.29	-0.67	0.07	0.04	32.73	56.00	-23.27	QP
10	2.178	31.66	-0.70	0.20	0.18	31.34	56.00	-24.66	QP
11	4.772	20.50	-0.64	0.64	0.09	20.59	46.00	-25.41	Average
12	4.926	32.56	-0.64	0.66	0.09	32.67		-23.33	

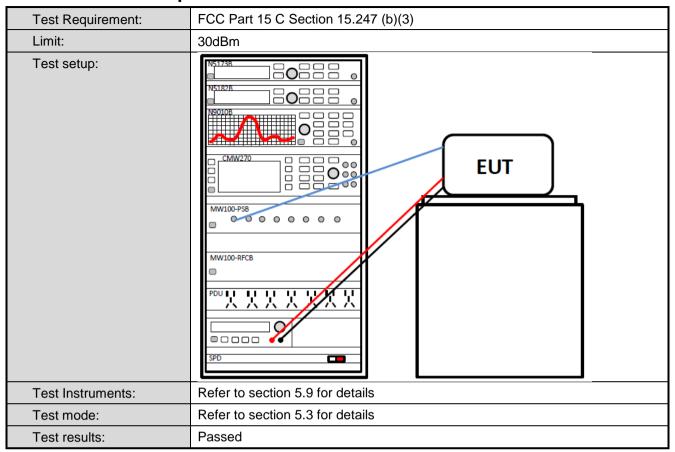
Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.





6.3 Conducted Output Power



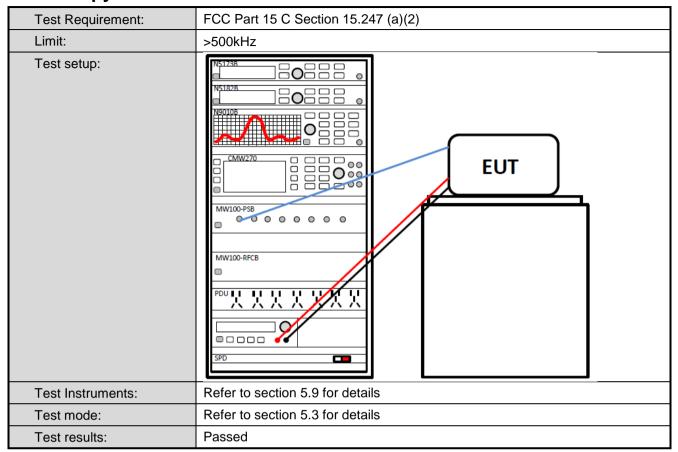
Measurement Data: Refer to Appendix A - BLE

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6.4 Occupy Bandwidth



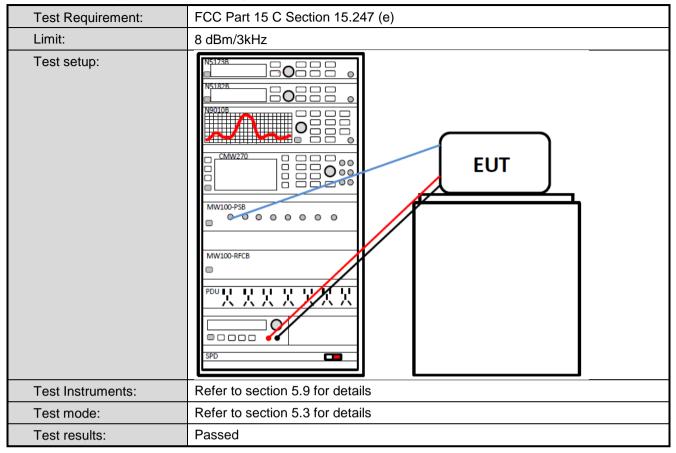
Measurement Data: Refer to Appendix A - BLE

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6.5 Power Spectral Density



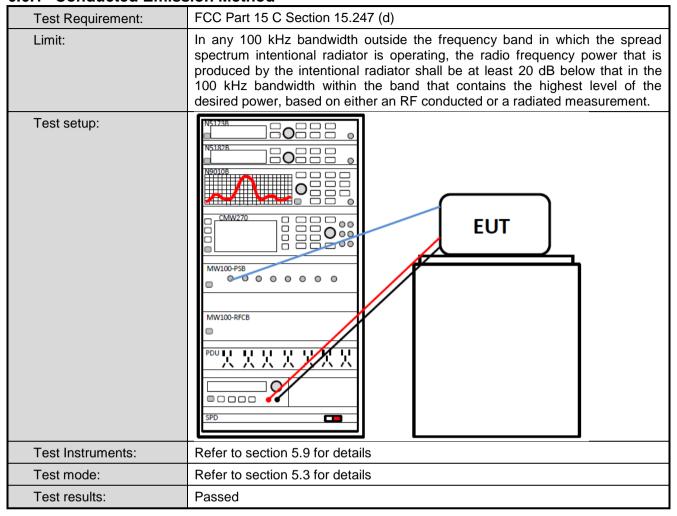
Measurement Data: Refer to Appendix A - BLE

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6.6 Band Edge

6.6.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE



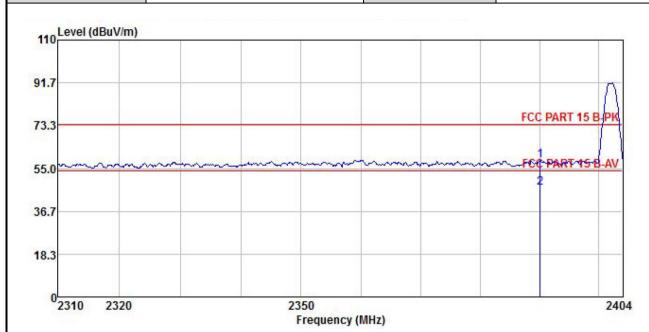
6.6.2 **Radiated Emission Method**

. cook to question and to the cook to the			FCC Part 15 C Section 15.205 and 15.209								
	2310 MHz to 2390 MHz and 2483.5MHz to 2500 MHz										
Test Distance: 3m	3m										
Receiver setup: Frequency Detector RBW	١ ١	VBW	Remark								
Above 1GHz Peak 1MHz		3MHz	Peak Value								
RMS 1MHz		3MHz	Average Value								
Limit: Frequency Limit (dBuV/m 0	2/3m)		Remark								
Above 1GHz 54.00 74.00			Average Value Peak Value								
Test Procedure: 1. The EUT was placed on the top of a sthe ground at a 3 meter camber. The to determine the position of the higher to determine the position of the higher to determine the position of the higher to determine the maximum antenna, which was mounted on the stower. 3. The antenna height is varied from one the ground to determine the maximum and both horizontal and vertical polarization make the measurement. 4. For each suspected emission, the EU case and then the antenna was tuned meters and the rota table was turned to find the maximum reading. 5. The test-receiver system was set to F Specified Bandwidth with Maximum F G. If the emission level of the EUT in perting the limit specified, then testing could of the EUT would be reported. Otherwhave 10 dB margin would be re-tested.	 the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenr tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degree to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower that the limit specified, then testing could be stopped and the peak value of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 										
Test setup: Horn Arlenna Ground Reference Plane Test Receiver Test Receiver	Antenna	na Tower									
Test Instruments: Refer to section 5.9 for details											
Test mode: Refer to section 5.3 for details											
Test results: Passed											

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Product Name:	Mobile Phone	Product Model:	L6502S
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



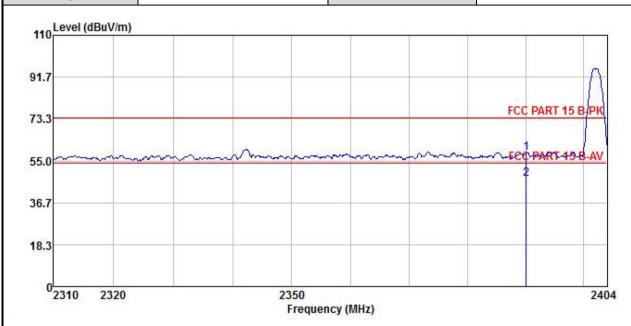
	Freq		Antenna Factor						Remark
	MHz	MHz dBuV	$\frac{-dB/m}{dB}$	<u>dB</u>	$\overline{dB}\overline{uV/m}$	$\overline{dBuV/m}$	<u>d</u> B		
1 2	2390,000 2390,000								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	L6502S
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



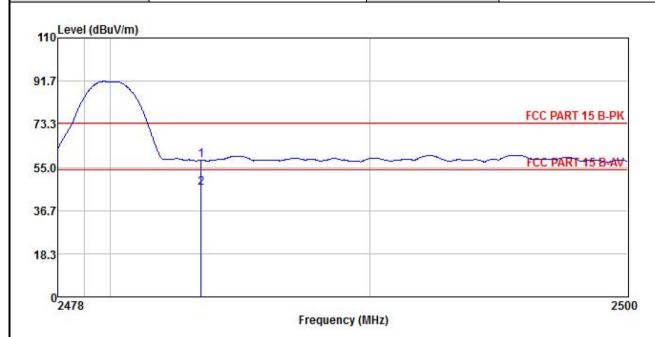
	Freq		Antenna Factor						Remark
	MHz	MHz dBuV	$\frac{-d\overline{B}/\overline{m}}{d\overline{B}}$	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>ab</u>		
1 2	2390.000 2390.000								

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	L6502S
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



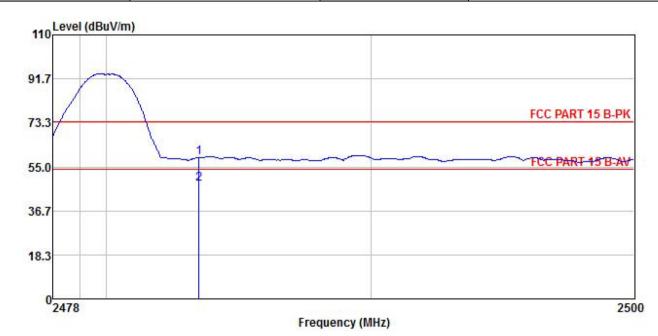
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∇	— <u>dB</u> /m	<u>ab</u>	<u>ab</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	2483.500	21.88	27.27	8.82	0.00	57.97	74.00	-16.03	Peak
2	2483.500	10.16	27.27	8.82	0.00	46.25	54.00	-7.75	Average

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Mobile Phone	Product Model:	L6502S
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor			Limit Line		
	MHz	dBu∇	<u>dB</u> /m	 <u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>ab</u>	
1 2	2483.500 2483.500	A STATE OF THE COURSE OF THE C			58.96 47.73			

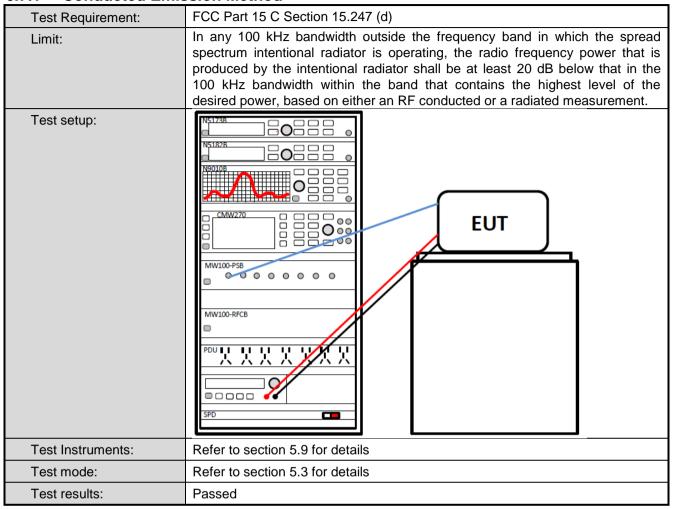
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE

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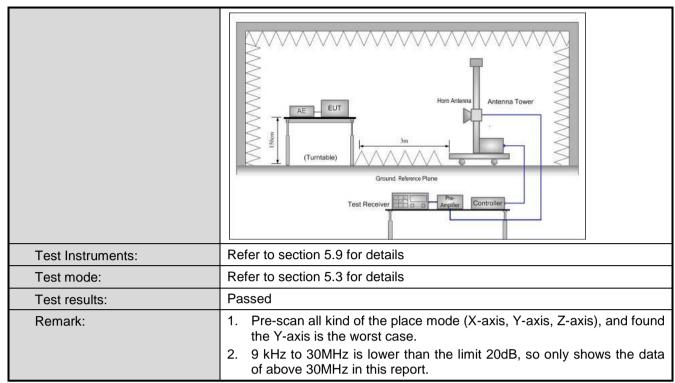


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.20	05 and 15.209				
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency	Detector	RBW	VB	W Remark		
	30MHz-1GHz	Quasi-peak	120KHz	3001	KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3M	IHz Peak Value		
	Above TOTIZ	RMS	1MHz	3M	Hz	Hz Average Value	
Limit:	Frequency		imit (dBuV/m @	23m)		Remark	
	30MHz-88M		40.0			Quasi-peak Value	
	88MHz-216M		43.5		1	Quasi-peak Value	
	216MHz-960N		46.0			Quasi-peak Value	
	960MHz-1G	П	54.0 54.0			Quasi-peak Value Average Value	
	Above 1GH	lz —	74.0			Peak Value	
	The table of highest rad 2. The EUT antenna, we tower. 3. The antennather ground Both horizon make the make the make the make the make and to find the make to find the make the limit spoof the EUT have 10 dE	was rotated a iation. was set 3 red hich was more and height is least to determine the anterest of the rota tab maximum reasonable is and width with sion level of ecified, then would be reasonable in word	neters away unted on the function on the function of the maximitical polarization. The function of the functio	o determined the copy of a	rmine ne inter a varial ter to f ue of f the a as arra eights degre ak Def de. de was ped ar ie emis y one	a 3 meter camber. the position of the efference-receiving ble-height antenna four meters above the field strength. antenna are set to anged to its worst from 1 meter to 4 ses to 360 degrees tect Function and a 10 dB lower than and the peak values ssions that did not using peak, quasi-reported in a data	
Test setup:	EUT	3m			Antenna Search Antenn Test eiver	1	

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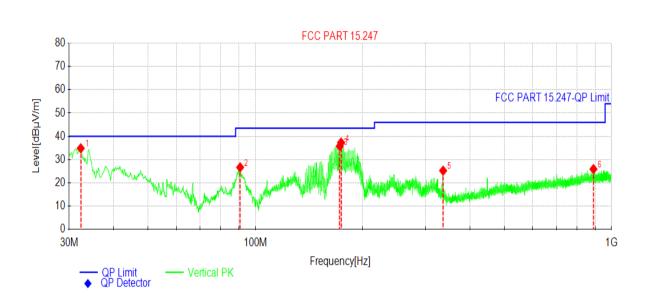
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Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	L6502S
Test By:	Mike	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



Suspe	Suspected Data List												
NO.	Freq.	Reading[d	Level	Factor	Limit	Margin	Trace						
NO.	[MHz]	BµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Hace						
1	32.3282	52.75	34.82	-17.93	40.00	5.18	QP						
2	90.6311	46.16	26.63	-19.53	43.50	16.87	QP						
3	172.604	54.55	35.72	-18.83	43.50	7.78	QP						
4	174.059	56.11	37.28	-18.83	43.50	6.22	QP						
5	336.744	38.50	25.20	-13.30	46.00	20.80	QP						
6	890.379	29.88	25.87	-4.01	46.00	20.13	QP						

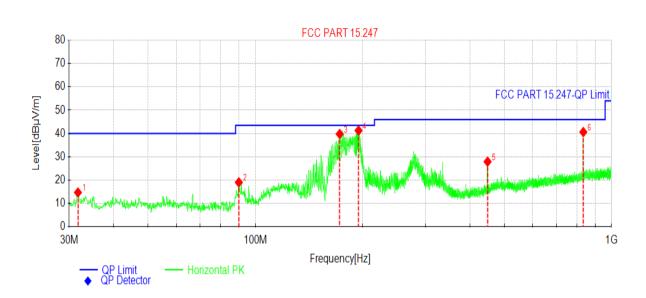
Remark

- Final Level = Receiver Read level + Factor.
 Factor = Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

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Product Name:	Mobile Phone	Product Model:	L6502S
Test By:	Mike	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



Suspe	Suspected Data List												
NO	Freq.	Reading[d	Level	Factor	Limit	Margin	Tropo						
NO.	[MHz]	BµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Trace						
1	31.7462	32.74	14.67	-18.07	40.00	25.33	QP						
2	89.8550	38.59	19.00	-19.59	43.50	24.50	QP						
3	172.507	58.61	39.78	-18.83	43.50	3.72	QP						
4	194.916	58.59	41.26	-17.33	43.50	2.24	QP						
5	448.984	38.99	27.88	-11.11	46.00	18.12	QP						
6	833.919	45.25	40.62	-4.63	46.00	5.38	QP						

- 1. Final Level = Receiver Read level + Factor. Factor = Antenna Factor + Cable Loss - Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

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Above 1GHz

	Test channel: Lowest channel												
Detector: Peak Value													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4804.00	55.92	30.78	6.80	2.44	41.81	54.13	74.00	-19.87	Vertical				
4804.00	56.46	30.78	6.80	2.44	41.81	54.67	74.00	-19.33	Horizontal				
				Detector:	Average Va	alue							
Frequency (MHz) Read Antenna Cable Aux Preamp Level Factor Loss Factor Factor (dBuV) (dB/m) (dB) (dB) (dB) (dB) (dB) (dB) (dB)								Polarization					
4804.00	48.15	30.78	6.80	2.44	41.81	46.36	54.00	-7.64	Vertical				
4804.00	49.02	30.78	6.80	2.44	41.81	47.23	54.00	-6.77	Horizontal				

	Test channel: Middle channel												
Detector: Peak Value													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4884.00	55.81	30.96	6.86	2.47	41.84	54.26	74.00	-19.74	Vertical				
4884.00	56.41	30.96	6.86	2.47	41.84	54.86	74.00	-19.14	Horizontal				
				Detector:	Average Va	alue							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4884.00	48.26	30.96	6.86	2.47	41.84	46.71	54.00	-7.29	Vertical				
4884.00	49.35	30.96	6.86	2.47	41.84	47.80	54.00	-6.20	Horizontal				

	Test channel: Highest channel												
Detector: Peak Value													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4960.00	55.74	31.11	6.91	2.49	41.87	54.38	74.00	-19.62	Vertical				
4960.00	56.84	31.11	6.91	2.49	41.87	55.48	74.00	-18.52	Horizontal				
				Detector:	Average Va	alue							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4960.00	48.49	31.11	6.91	2.49	41.87	47.13	54.00	-6.87	Vertical				
4960.00	49.71	31.11	6.91	2.49	41.87	48.35	54.00	-5.65	Horizontal				

Remark:

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^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.