

TEST REPORT

Applicant Name: ITEL MOBILE LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-
25 SHAN MEI STREET FOTAN NT HONGKONG
Report Number: 2501Q32696E-RF-00
FCC ID: 2AJMN-C671L

Test Standard (s)

FCC PART 22H; FCC PART 27

Sample Description

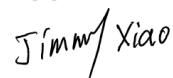
Product Type: Mobile Phone
Model No.: C671L
Multiple Model(s) No.: N/A
Trade Mark: itel
Date Received: 2025-02-27
Issue Date: 2025-04-07

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Jim Cheng
RF Engineer

Approved By:

Jimmy Xiao
EMC Manager

Note: The information marked[#] is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501Q32696E-RF-00	Original Report	2025-04-07

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Mobile Phone		
Tested Model	C671L		
Multiple Model(s)	N/A		
Frequency Range	LTE Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(TX) LTE Band 38: 2570-2620MHz(TX/RX) LTE Band 41: 2535-2655MHz(TX/RX)		
Uplink Intra CA Bands	CA_5B, CA_7C, CA_38C, CA_41C		
Modulation Technique	QPSK, 16QAM		
Antenna Specification [#]	Operation Bands	Antenna Gain (G _T) (dBi)	L _C (dB)
	LTE B5	-6.36	0
	LTE B7	-2.94	0
	LTE B38	-2.26	0
	LTE B41	-2.26	0
Note: Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.			
Voltage Range	DC 3.91V from battery or DC 5V/7.5V from adapter		
Sample serial number	2YXW-5 for Radiated Emissions Test 2YXW-4 for RF Conducted Test (Assigned by BACL, Shenzhen)		
Sample/EUT Status	Good condition		
Normal/Extreme condition [#]	VL: Low Voltage 3.6V _{DC} VN: Normal Voltage 3.91V _{DC} VH: High Voltage 4.5V _{DC} (provided by the applicant)		
Adapter Information	Model: U180ISA Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or DC 7.5V, 2.4A, 18.0W Max		

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, and Part 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01: Power Meas License Digital Systems v03r01

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	109.2kHz(k=2, 95% level of confidence)
RF output power, conducted	0.86dB(k=2, 95% level of confidence)
Unwanted Emission, conducted	1.60dB(k=2, 95% level of confidence)
RF Frequency	56.6Hz(k=2, 95% level of confidence)
Radiated Emissions	30MHz~200MHz (Horizontal)
	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)
	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)
	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)
1GHz - 6GHz	5.73dB(k=2, 95% level of confidence)
6GHz - 18GHz	5.34dB(k=2, 95% level of confidence)
18GHz - 40GHz	5.40dB(k=2, 95% level of confidence)
Temperature	±1°C
Humidity	±1%
Supply voltages	±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

LTE Band 5B CA Frequency List				
Bandwidth (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
5+10	PCC	826.8	831.8	836.8
	SCC	834	839	844
10+5	PCC	829	834	839
	SCC	836.2	841.2	846.2
10+10	PCC	829	831.6	834.1
	SCC	838.9	841.5	844

LTE Band 7C CA Frequency List				
Bandwidth (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
20+20	PCC	2510.0	2525.1	2540.2
	SCC	2529.8	2544.9	2560.0
20+15	PCC	2510.0	2527.6	2545.1
	SCC	2527.1	2544.7	2562.2
15+20	PCC	2507.8	2525.3	2542.9
	SCC	2524.9	2542.4	2560.0
20+10	PCC	2510.0	2530.1	2550.1
	SCC	2524.4	2544.5	2564.5
10+20	PCC	2505.5	2525.6	2545.6
	SCC	2519.9	2540.0	2560.0
15+15	PCC	2507.5	2527.5	2547.5
	SCC	2522.5	2542.5	2562.5
15+10	PCC	2507.5	2530.1	2552.7
	SCC	2519.5	2542.1	2564.7

LTE Band 38C CA Frequency List				
Bandwidth (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
20+20	PCC	2580.0	2585.1	2590.2
	SCC	2599.8	2604.9	2610.0
15+15	PCC	2577.5	2587.5	2597.5
	SCC	2592.5	2602.5	2612.5

LTE Band 41C CA Frequency List				
Bandwidth (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
20+20	PCC	2545	2583.1	2625.2
	SCC	2564.8	2602.9	2645
20+15	PCC	2545	2585.6	2630.1
	SCC	2562.1	2602.7	2647.2
15+20	PCC	2542.8	2593.3	2627.9
	SCC	2559.9	2600.4	2645
20+10	PCC	2545	2588.1	2635.1
	SCC	2559.4	2602.5	2649.5
10+20	PCC	2540.5	2583.6	2630.6
	SCC	2554.9	2598.0	2645
20+5	PCC	2545	2590.5	2640
	SCC	2556.7	2602.2	2651.7
5+20	PCC	2538.3	2583.8	2633.3
	SCC	2550	2595.5	2645
15+15	PCC	2542.5	2585.5	2632.5
	SCC	2557.5	2600.5	2647.5
10+15	PCC	2540.3	2585.9	2635.5
	SCC	2552.3	2597.9	2647.5
15+10	PCC	2542.5	2588.1	2637.7
	SCC	2554.5	2600.1	2649.7

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

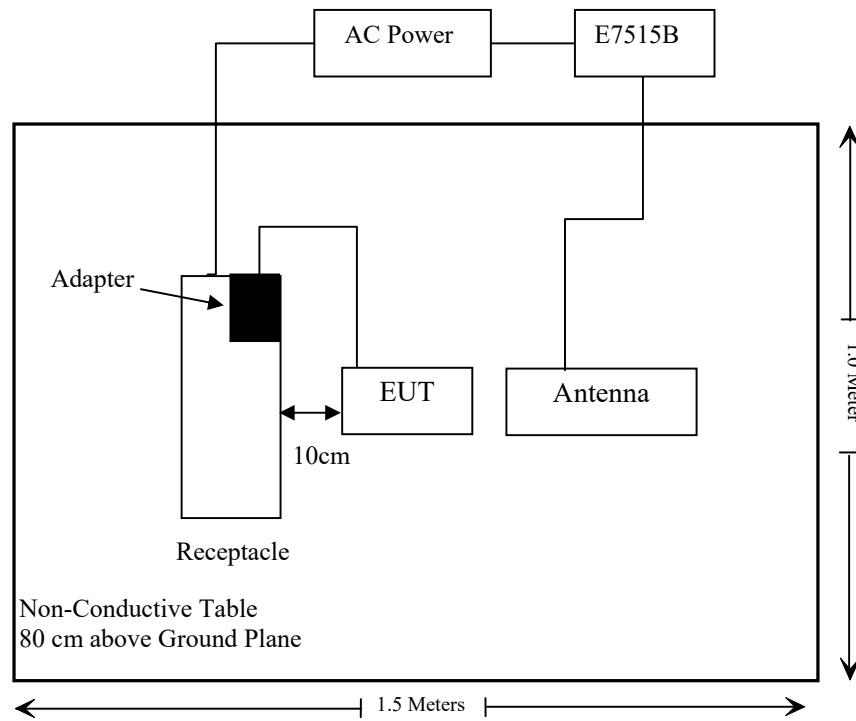
Manufacturer	Description	Model	Serial Number
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120284

Support Cable Description

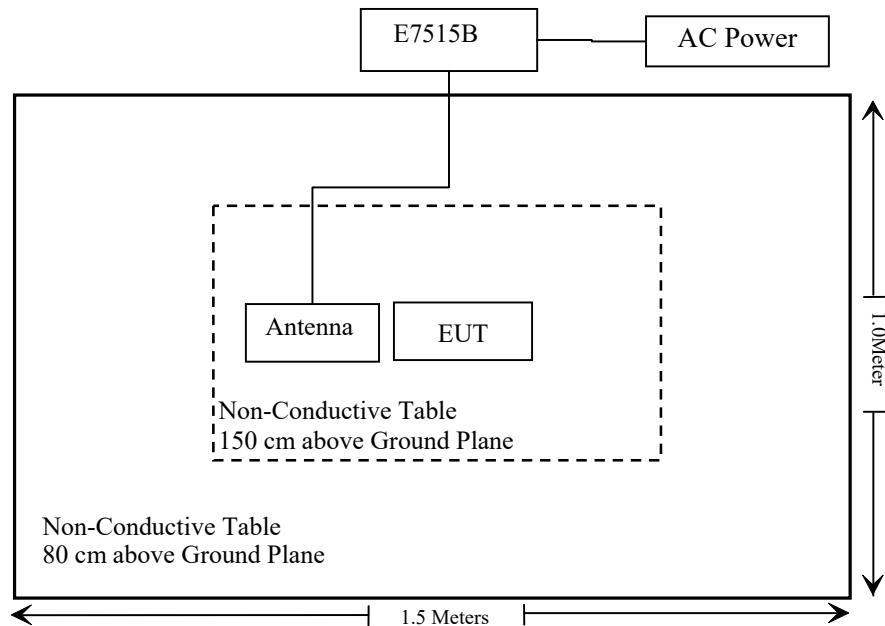
Cable Description	Length (m)	From / Port	To
Un-shielded Detachable AC cable	1.2	AC Power	CMW 500
Un-shielding Detachable USB Cable	0.8	EUT	Adapter
Shielded Un-detachable AC Cable	1.5	Receptacle	AC Power

Block Diagram of Test Setup

For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307,§2.1093	RF Exposure Information	Compliant
§2.1046; § 22.913 (a) (d); §27.50 (d) (h)	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917; §27.53	Occupied Bandwidth	Compliant
§ 2.1051; §22.917 (a); §27.53	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053; § 22.917 (a); §27.53	Field Strength of Spurious Radiation	Compliant
§ 22.917 (a); §27.53 (h) (m)	Band Edge	Compliant
§ 2.1055; § 22.355; §27.54;	Frequency stability	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
COM-POWER	Dipole Antenna	3121C	9209-860	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
The Electro-Mechanics Co.	Horn Antenna	3115	9107-3694	2024/06/06	2027/06/05
Unknown	RF Cable	KMSE	735	2024/12/04	2025/12/03
Unknown	RF Cable	UFA147	219661	2024/12/04	2025/12/03
Unknown	RF Cable	XH750A-N	J-10M	2024/12/04	2025/12/03
Agilent	Signal Generator	N5183A	MY50140588	2024/09/13	2025/09/12
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/06/18	2025/06/17

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2024/09/20	2025/09/19
BACL	Temperature & Humidity Chamber	BTH-150-40	30145	2024/12/06	2025/12/05
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	141718	2024/08/06	2025/08/05
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2024/05/21	2025/05/20
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120284	2024/05/17	2025/05/16
WEINSCHEL	Power Splitter	1515	RH476	2024/06/27	2025/06/26
HP	Power Splitter	11667A	1610A	2024/06/27	2025/06/26
Unknown	RF Cable	65475	01670515	2024/06/27	2025/06/26
Micro-Tronics	RF Cable	8082135	W1113	2024/06/27	2025/06/26

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: 2503Q32696E-SA.

FCC§2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC § 2.1046, § 22.913 (a) (d) & §27.50 (d) (h) - RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

According to §27.50(h), the maximum EIRP must not exceed 2Watts (33dBm) for 2496-2690MHz.

Test Procedure

Conducted method: ANSI C63.26-2015 Section 5.2

The RF output of the transmitter was connected to the E7515B through sufficient attenuation.



Test Data

Environmental Conditions

Temperature:	23.2~25.6 °C
Relative Humidity:	33~55 %
ATM Pressure:	100.6~101.8 kPa

The testing was performed by Leo Lin from 2025-03-07 to 2025-03-10.

EUT operation mode: Transmitting (Worst case record in the reports)

Please refer to the Appendix A for Transmitter Conducted Output Power

Please refer to the Appendix B for Peak-to-average ratio (PAR)

FCC §2.1049, §22.917, §22.905 & §27.53 - OCCUPIED BANDWIDTH

Applicable Standard

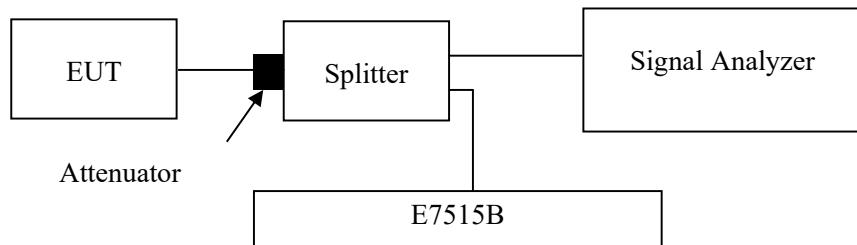
FCC 47 §2.1049, §22.917, §22.905 and §27.53.

Test Procedure

ANSI C63.26-2015 Section 5.4.4

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 1% to 5% of the anticipated emission bandwidth and the 26 dB & 99% bandwidth was recorded.



Test Data

Environmental Conditions

Temperature:	23.3~25.2°C
Relative Humidity:	36~54 %
ATM Pressure:	100.8~101.6 kPa

The testing was performed by Leo Lin from 2025-03-07 to 2025-03-17.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the Appendix C for occupied bandwidth

FCC §2.1051, §22.917(a) & §27.53 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

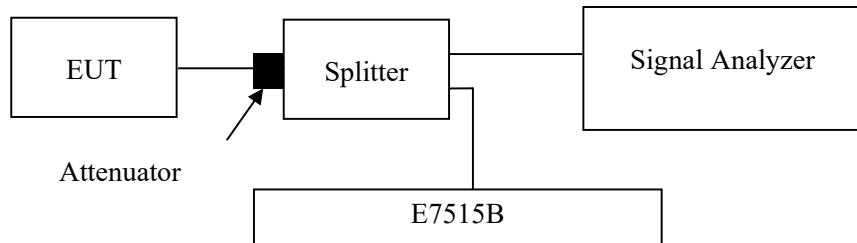
FCC §2.1051, §22.917(a) & §27.53.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

ANSI C63.26-2015 Section 5.7

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range was added into plots.

Test Data

Environmental Conditions

Temperature:	23.4~25.2 °C
Relative Humidity:	33~54 %
ATM Pressure:	100.4~101.6 kPa

The testing was performed by Leo Lin from 2025-03-08 to 2025-03-15.

EUT operation mode: Transmitting

Test result: Compliant

Please refer to the Appendix D1&D2 for spurious emissions at antenna terminals.

FCC § 2.1053; § 22.917 (a); §27.53 - SPURIOUS RADIATED EMISSIONS**Applicable Standard**

FCC § 2.1053, §22.917(a) & § 27.53.

Test Procedure

ANSI C63.26-2015 Section 5.5

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Test Data**Environmental Conditions**

Temperature:	19.8~23.4 °C
Relative Humidity:	53~59 %
ATM Pressure:	101.4~101.8 kPa

The testing was performed by Anson Su on 2025-03-11 for below 1GHz and by Wing K Ji on 2025-03-11 for above 1GHz.

EUT operation mode: Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

LTE Bands: (pre-scan QPSK & 16QAM with all bandwidths, the worst case is QPSK)

Frequency (MHz)	Receiver Reading (dB μ V)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
CA_5B, Bandwidth_ (5+10) MHz, Low Channel								
204.6	40.71	H	-68.5	0.85	0.0	-69.35	-13	56.35
107.9	39.6	V	-68.8	0.75	0.0	-69.55	-13	56.55
1651.20	45.86	H	-68.3	1.50	8.80	-61.00	-13	48.00
1651.20	47.50	V	-67.2	1.50	8.80	-59.90	-13	46.90
CA_5B, Bandwidth_ (5+10) MHz, Middle Channel								
201.3	40.77	H	-68.4	0.85	0.0	-69.25	-13	56.25
107.9	39.68	V	-68.7	0.75	0.0	-69.45	-13	56.45
1668.20	46.23	H	-67.9	1.50	8.80	-60.60	-13	47.60
1668.20	47.50	V	-67.2	1.50	8.80	-59.90	-13	46.90
CA_5B, Bandwidth_ (5+10) MHz, High Channel								
204.7	40.81	H	-68.4	0.85	0.0	-69.25	-13	56.25
107.9	39.78	V	-68.6	0.75	0.0	-69.35	-13	56.35
1693.00	47.11	H	-67.1	1.50	8.80	-59.80	-13	46.80
1693.00	50.13	V	-64.6	1.50	8.80	-57.30	-13	44.30
CA_7C, Bandwidth_ (10+20) MHz, Low Channel								
204.9	40.87	H	-68.3	0.85	0.0	-69.15	-25	44.15
107.9	39.80	V	-68.6	0.75	0.0	-69.35	-25	44.35
5011.00	55.06	H	-57.6	2.00	10.60	-49.00	-25	24.00
5011.00	53.78	V	-58.2	2.00	10.60	-49.60	-25	24.60
CA_7C, Bandwidth_ (10+20) MHz, Middle Channel								
201.6	40.92	H	-68.3	0.85	0.0	-69.15	-25	44.15
107.8	39.89	V	-68.5	0.75	0.0	-69.25	-25	44.25
5051.20	55.35	H	-57.2	2.60	10.60	-49.20	-25	24.20
5051.20	54.11	V	-57.9	2.60	10.60	-49.90	-25	24.90
CA_7C, Bandwidth_ (10+20) MHz, High Channel								
204.7	40.99	H	-68.2	0.85	0.0	-69.05	-25	44.05
107.8	39.95	V	-68.5	0.75	0.0	-69.25	-25	44.25
5091.20	55.62	H	-57.0	2.60	10.60	-49.00	-25	24.00
5091.20	54.78	V	-57.3	2.60	10.60	-49.30	-25	24.30
CA_38C, Bandwidth_ (15+15) MHz, Low Channel								
204.8	41.02	H	-68.2	0.85	0.0	-69.05	-25	44.05
107.8	40.01	V	-68.4	0.75	0.0	-69.15	-25	44.15
5155.00	54.38	H	-58.1	2.40	10.60	-49.90	-25	24.90
5155.00	53.87	V	-58.2	2.40	10.60	-50.00	-25	25.00

Frequency (MHz)	Receiver Reading (dB μ V)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
CA_38C, Bandwidth_(15+15) MHz, Middle Channel								
204.8	41.18	H	-68.0	0.85	0.0	-68.85	-25	43.85
107.9	40.15	V	-68.3	0.75	0.0	-69.05	-25	44.05
5175.00	54.16	H	-58.3	2.40	10.60	-50.10	-25	25.10
5175.00	53.02	V	-59.1	2.40	10.60	-50.90	-25	25.90
CA_38C, Bandwidth_(15+15) MHz, High Channel								
201.6	41.26	H	-67.9	0.85	0.0	-68.75	-25	43.75
107.9	40.21	V	-68.2	0.75	0.0	-68.95	-25	43.95
5195.00	53.98	H	-58.5	2.40	10.60	-50.30	-25	25.30
5195.00	53.04	V	-59.0	2.40	10.60	-50.80	-25	25.80
CA_41C, Bandwidth_(5+20) MHz, Low Channel								
201.9	41.29	H	-67.9	0.85	0.0	-68.75	-25	43.75
107.8	40.22	V	-68.2	0.75	0.0	-68.95	-25	43.95
5076.60	54.63	H	-58.0	2.60	10.60	-50.00	-25	25.00
5076.60	53.28	V	-58.8	2.60	10.60	-50.80	-25	25.80
CA_41C, Bandwidth_(5+20) MHz, Middle Channel								
204.9	41.39	H	-67.8	0.85	0.0	-68.65	-25	43.65
107.9	40.28	V	-68.1	0.75	0.0	-68.85	-25	43.85
5167.60	54.55	H	-57.9	2.40	10.60	-49.70	-25	24.70
5167.60	53.67	V	-58.4	2.40	10.60	-50.20	-25	25.20
CA_41C, Bandwidth_(5+20) MHz, High Channel								
204.8	41.51	H	-67.7	0.85	0.0	-68.55	-25	43.55
107.9	40.46	V	-67.9	0.75	0.0	-68.65	-25	43.65
5266.60	54.55	H	-57.4	2.20	10.60	-49.00	-25	24.00
5266.60	53.62	V	-58.1	2.20	10.60	-49.70	-25	24.70

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain

Margin = Limit-Absolute Level

FCC§ 22.917 (a); §27.53 (h)(m) - BAND EDGES

Applicable Standard

According to § 22.917(a), the power of any emissions 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.

According to FCC §27.53 (h), 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.

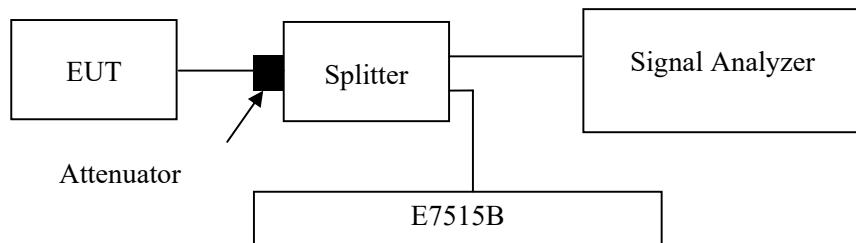
According to FCC §27.53 (m), For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel 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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5MHz.

Test Procedure

ANSI C63.26-2015 Section 5.7

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



Test Data

Environmental Conditions

Temperature:	23.3~25.2 °C
Relative Humidity:	36~54 %
ATM Pressure:	100.4~101.6 kPa

The testing was performed by Leo Lin from 2025-03-07 to 2025-03-15.

EUT operation mode: Transmitting (Worst case)

Test Result: Compliant

Please refer to the Appendix E for band edges.

FCC § 2.1055; § 22.355; §27.54 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055, §22.355, §27.54.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

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

According to §27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

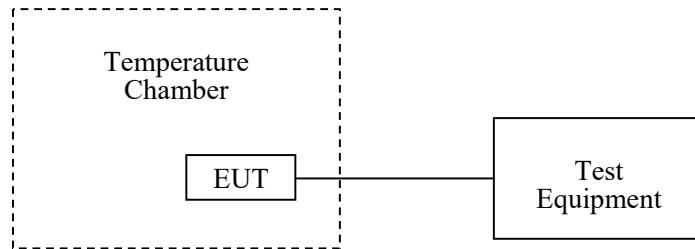
Test Procedure

ANSI C63.26-2015 Section 5.6

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data

Environmental Conditions

Temperature:	23.4~24.6 °C
Relative Humidity:	35~40 %
ATM Pressure:	101.4 kPa

The testing was performed by Leo Lin on 2025-03-07.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the Appendix F for frequency stability.

EUT PHOTOGRAPHS

Please refer to the attachment 2503Q32696E-RF-EXP[#] External photo and 2503Q32696E-RF-INP[#] Internal photo, issued by China Certification ICT Co., Ltd (Dongguan).

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501Q32696E-RFTest Setup photo.

******* END OF REPORT *******