

TEST REPORT

Application No.: GZCR2406000701ME
Applicant: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Applicant: Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China
Manufacturer: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Manufacturer: Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China
Factory: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Factory: Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China
Product Name: Blood Pressure monitor
Model No.: BB1597-G
Standard(s) : 47 CFR Part 2
 47 CFR Part 24 subpart E
 47 CFR Part 27 subpart C
Date of Receipt: 2024-06-17
Date of Test: 2024-06-20 to 2024-06-24
Date of Issue: 2024-07-22

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

Jerry Chan

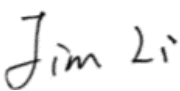
Jerry Chan
Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240600070102	2024-07-22	Original

Authorized for issue by:			
		 _____ Jim Li/Project Engineer	
		 _____ Ricky Liu/Reviewer	

2 Test Summary

LTE CatM1 Band 2

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §24.232	EIRP≤2W	PASS
Peak-Average Ratio	§2.1046 §24.232	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §24.238	≤43 + 10 log ₁₀ (P) dB, (P) in watts.	PASS
Spurious emissions at antenna terminals	§2.1051 §24.238	≤ -13 dBm/1MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	PASS
Field strength of spurious radiation	§2.1053 §24.238	≤ -13dBm/1MHz	PASS
Frequency stability	§2.1055 §24.235	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.	PASS

LTE CatM1 Band 4

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(d)	EIRP≤1W	PASS
Peak-Average Ratio	§2.1046 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(h)	≤ 43 + 10 log ₁₀ (P) dB, (P) in watts.	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(h)	≤ -13 dBm/1MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	PASS
Field strength of spurious radiation	§2.1053 §27.53(h)	≤ -13dBm/1MHz	PASS
Frequency stability	§2.1055 §27.54	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.	PASS



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LTE CatM1 Band 12

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)	ERP≤3W	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(g)	≤ 43 + 10 log (P) dB, (P) in watts. (However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.)	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	PASS
Field strength of spurious radiation	§2.1053 §27.53(g)	≤ -13dBm/100KHz	PASS
Frequency stability	§2.1055 §27.54	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.	PASS

LTE CatM1 Band 13

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)	ERP≤3W	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(g)	≤ 43 + 10 log (P) dB, (P) in watts. (However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.)	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	PASS
Field strength of spurious radiation	§2.1053 §27.53(g)	≤ -13dBm/100KHz	PASS
Frequency stability	§2.1055 §27.54	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.	PASS



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LTE CatM1 Band 25

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §24.232	EIRP≤2W	PASS
Peak-Average Ratio	§2.1046 §24.232	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §24.238	≤43 + 10 log ₁₀ (P) dB, (P) in watts.	PASS
Spurious emissions at antenna terminals	§2.1051 §24.238	≤ -13 dBm/1MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	PASS
Field strength of spurious radiation	§2.1053 §24.238	≤ -13dBm/1MHz	PASS
Frequency stability	§2.1055 §24.235	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.	PASS

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Battery powered mode: DC 6V = 4 x Size "AA" batteries. AC adapter powered mode: 6V, 1A AC Adapter: MODEL: BLJ06L060100P-U INPUT: 100-240V, 50/60Hz, 0.2A Max OUTPUT: 6.0V, 1.0A
Test voltage:	AC 120V, 60Hz powered by AC adapter. DC 6V powered by batteries.
Cable(s):	Adapter DC output cable, 2 wires, 1.5m, unshielded.
Operation Frequency:	LTE CatM1 Band 2, 4, 12, 13, 25
Modulation Type:	QPSK, 16QAM
Antenna Type:	PIFA Antenna CatM1 Band 2: 0.93 dBi CatM1 Band 4: -0.8 dBi CatM1 Band 12: -1.0 dBi CatM1 Band 13: 0.48 dBi CatM1 Band 25: 0.93 dBi (Declared by manufacturer)
Antenna Gain:	
Extreme temp. Tolerance:	-30°C to +50°C
Sample Type:	Fixed device.
Remark:	The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
CMW500 Test Card	/	/	/



4.3 Test Frequency

Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
CatM1 Band 2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0

Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
CatM1 Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0

Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
CatM1 Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0

Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
CatM1 Band 13	5	779.5	782.0	784.5
	10	/	782.0	/

Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
CatM1 Band 25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	10	1855.0	1882.5	1910.0
	15	1857.5	1882.5	1907.5
	20	1860.0	1882.5	1905.0

4.4 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	50.3%	
Atmospheric Pressure:	1001 mbar	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Test Voltage:	VL	102 V
	VN	120 V
	VH	138 V
NOTE: VL= Lower extreme test voltage VN= Nominal voltage VH= Upper extreme test voltage TL= Lower extreme test temperature TN= Normal temperature TH= Upper extreme test temperature		



4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Effective (Isotropic) Radiated Power Output Data	$\pm 0.75\text{dB}$
Peak-Average Ratio	$\pm 0.75\text{dB}$
Bandwidth	$\pm 3\%$
Band Edge Compliance	$\pm 0.75\text{dB}$
Spurious emissions at antenna terminals	$\pm 0.75\text{dB}$
Field strength of spurious radiation	$\pm 5.14\text{dB}$ (below 1GHz) $\pm 5.08\text{dB}$ (above 1GHz)
Frequency stability	7.25×10^{-8}
Temperature test	1°C
Humidity test	3%

Remark:

The U_{lab} (lab Uncertainty) is less than U_{ETSI} (ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No test were sub-contracted.



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4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
MI CABLE	SGS-EMC	0.8M	EMC0543	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	EMC2215	2023/11/10	2024/11/09
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2024-06-28	2025-06-27
Splitter	Mini-Circuits	ZFSC-2-10G+	RFCONMBINE R05	2023-11-02	2025-11-01

Field strength of spurious radiation					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	EMC2215	2023/11/10	2024/11/09
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Chamber Cable (Below 1GHz)	Scoflex	KMKM-8.0m	EMC0546	2022-08-24	2024-08-23
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK	VULB 9160	EMC2025	2022-09-07	2025-09-06
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Pre-Amplifier MH648A (100kHz-1.2GHz)	ANRITSU CORP	MH648A	EMC2086	2023-10-20	2024-10-19

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.1.1 E.U.T. Operation

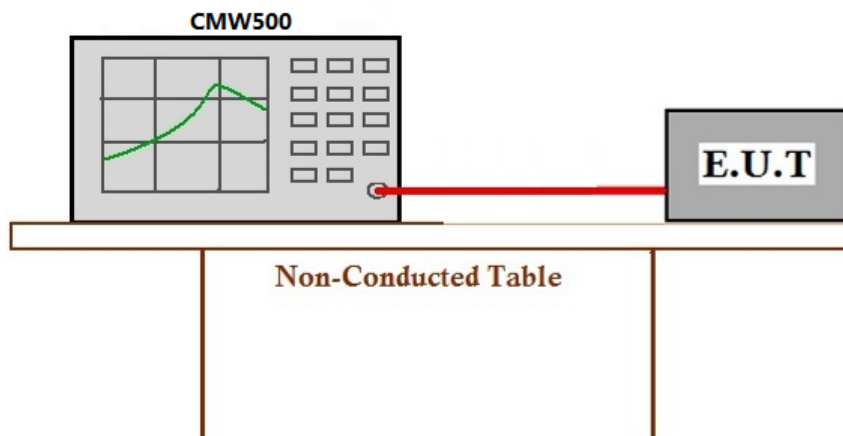
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Establish communication connection with auxiliary equipment CMW500 and keep the EUT in transmitting mode.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

6.2 Peak-Average Ratio

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.2.1 E.U.T. Operation

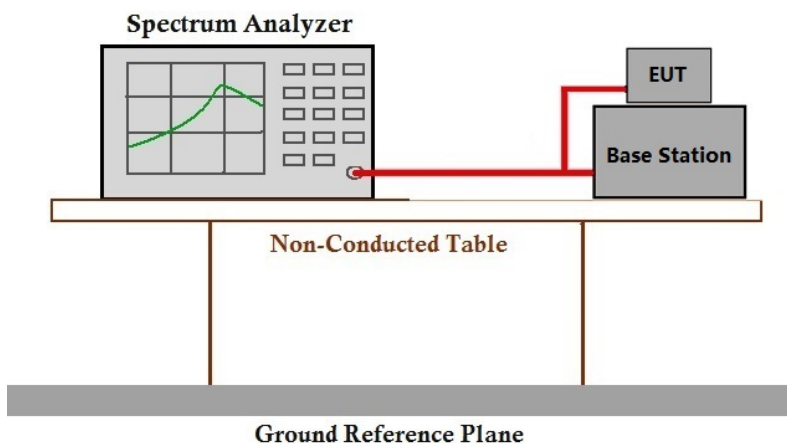
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Establish communication connection with auxiliary equipment CMW500 and keep the EUT in transmitting mode.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

6.3 Modulation Characteristics

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.3.1 E.U.T. Operation

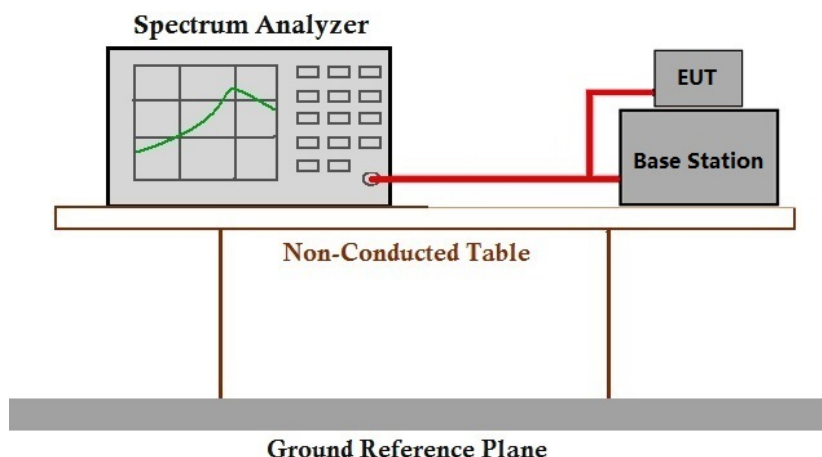
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.3.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Establish communication connection with auxiliary equipment CMW500 and keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Procedure and Data

Note: This device uses digital modulation.

6.4 Bandwidth

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.4.1 E.U.T. Operation

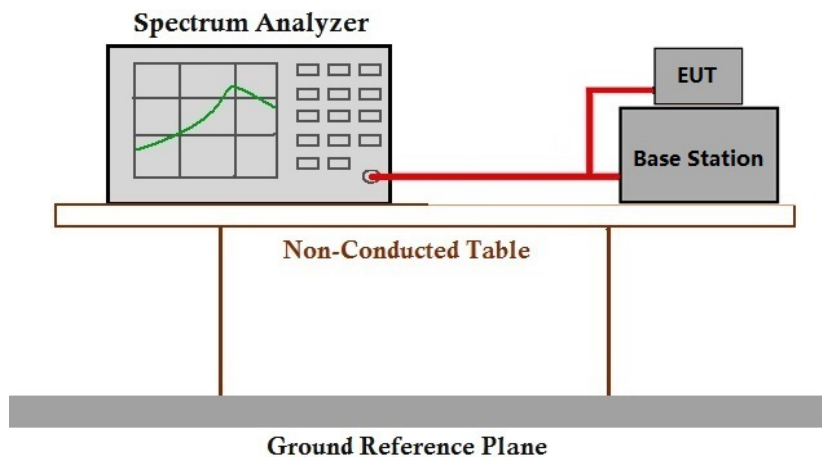
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Establish communication connection with auxiliary equipment CMW500 and keep the EUT in transmitting mode.

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

6.5 Band Edge Compliance

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.5.1 E.U.T. Operation

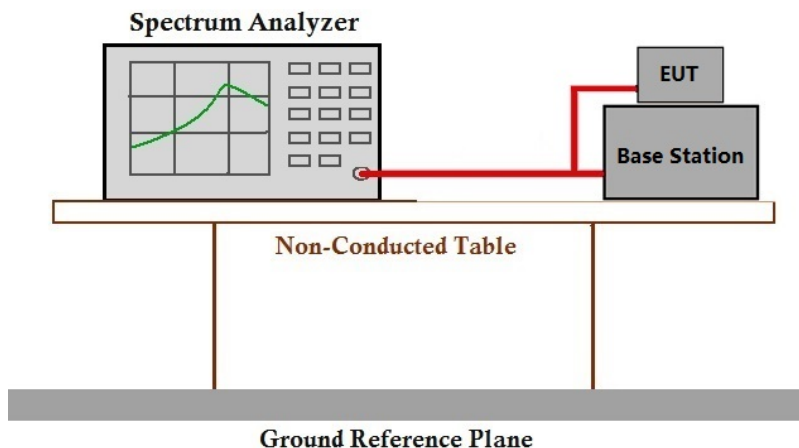
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Establish communication connection with auxiliary equipment CMW500 and keep the EUT in transmitting mode.

6.5.3 Test Setup Diagram



6.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

6.6 Spurious emissions at antenna terminals

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.6.1 E.U.T. Operation

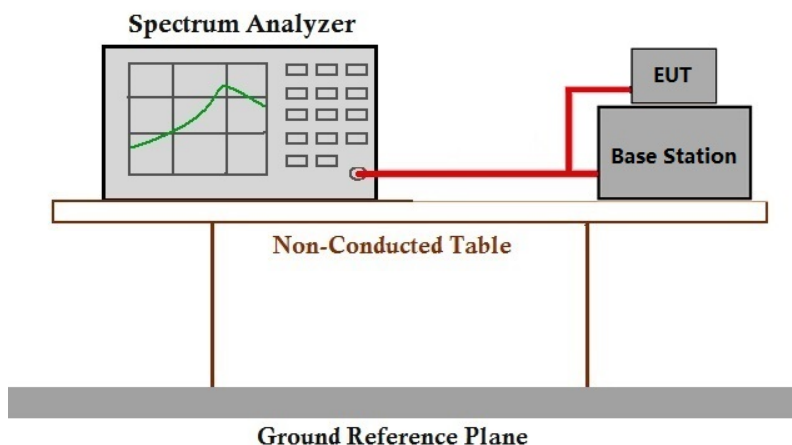
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Establish communication connection with auxiliary equipment CMW500 and keep the EUT in transmitting mode.

6.6.3 Test Setup Diagram



6.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

6.7 Field strength of spurious radiation

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.7.1 E.U.T. Operation

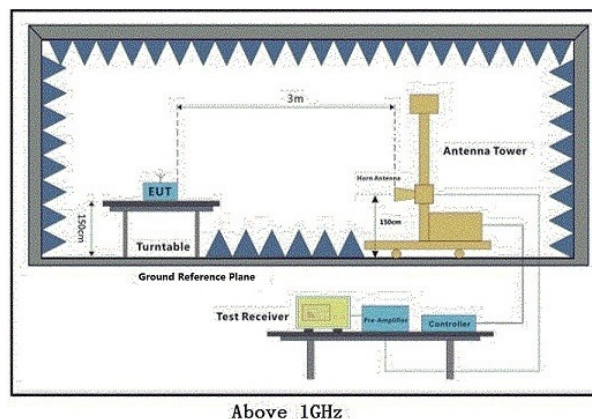
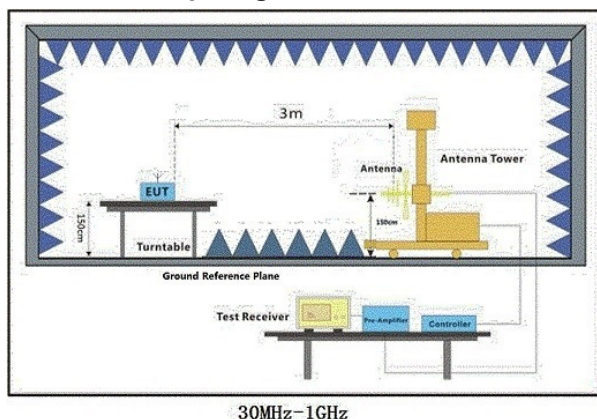
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	LTE CatM1 B2 TX Mode_ Establish connection with auxiliary equipment CMW500(Only the data of worst case for QPSK@1RB is recorded in the report).
Final test	05	LTE CatM1 B4 TX Mode_ Establish connection with auxiliary equipment CMW500(Only the data of worst case for QPSK@1RB is recorded in the report).
Final test	06	LTE CatM1 B12 TX Mode_ Establish connection with auxiliary equipment CMW500(Only the data of worst case for QPSK@1RB is recorded in the report).
Final test	07	LTE CatM1 B13 TX Mode_ Establish connection with auxiliary equipment CMW500(Only the data of worst case for QPSK@1RB is recorded in the report).
Final test	08	LTE CatM1 B25 TX Mode_ Establish connection with auxiliary equipment CMW500(Only the data of worst case for QPSK@1RB is recorded in the report).

6.7.3 Test Setup Diagram



6.7.4 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

Remark:

The spurious emissions 9kHz to 1GHz were very low and not displayed in this report.



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Test Mode: 04

CatM Band 2-20MHz Low channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702	-50.38	-13	-37.38	-52.6	6.99	9.21	Horizontal	Pass
5553	-47.33	-13	-34.33	-49.65	8.27	10.59	Horizontal	Pass
7404	-45.02	-13	-32.02	-48.56	8.19	11.73	Horizontal	Pass
3702	-50.1	-13	-37.1	-52.32	6.99	9.21	Vertical	Pass
5553	-47.04	-13	-34.04	-49.36	8.27	10.59	Vertical	Pass
7404	-44.13	-13	-31.13	-47.67	8.19	11.73	Vertical	Pass

CatM Band 2-20MHz Middle channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3742	-51.76	-13	-38.76	-53.98	6.99	9.21	Horizontal	Pass
5613	-47.67	-13	-34.67	-49.99	8.27	10.59	Horizontal	Pass
7484	-43.98	-13	-30.98	-47.52	8.19	11.73	Horizontal	Pass
3742	-51.02	-13	-38.02	-53.24	6.99	9.21	Vertical	Pass
5613	-47.63	-13	-34.63	-49.95	8.27	10.59	Vertical	Pass
7484	-43.04	-13	-30.04	-46.58	8.19	11.73	Vertical	Pass

CatM Band 2-20MHz High channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782	-51.67	-13	-38.67	-53.89	6.99	9.21	Horizontal	Pass
5673	-49.33	-13	-36.33	-51.65	8.27	10.59	Horizontal	Pass
7564	-45.73	-13	-32.73	-49.56	8.43	12.26	Horizontal	Pass
3782	-51.02	-13	-38.02	-53.24	6.99	9.21	Vertical	Pass
5673	-47.35	-13	-34.35	-49.67	8.27	10.59	Vertical	Pass
7564	-43.7	-13	-30.7	-47.53	8.43	12.26	Vertical	Pass



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Test Mode: 05

CatM Band 4-20MHz Low channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422	-51.29	-13	-38.29	-53.87	5.72	8.3	Horizontal	Pass
5133	-49.74	-13	-36.74	-51.74	8.3	10.3	Horizontal	Pass
6844	-46.26	-13	-33.26	-49.81	7.7	11.25	Horizontal	Pass
3422	-51.07	-13	-38.07	-53.65	5.72	8.3	Vertical	Pass
5133	-49.45	-13	-36.45	-51.45	8.3	10.3	Vertical	Pass
6844	-43.43	-13	-30.43	-46.98	7.7	11.25	Vertical	Pass

CatM Band 4-20MHz Middle channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-51.34	-13	-38.34	-53.92	5.72	8.3	Horizontal	Pass
5170.5	-43.48	-13	-30.48	-45.48	8.3	10.3	Horizontal	Pass
6894	-45.87	-13	-32.87	-49.42	7.7	11.25	Horizontal	Pass
3447	-50.08	-13	-37.08	-52.66	5.72	8.3	Vertical	Pass
5170.5	-48.54	-13	-35.54	-50.54	8.3	10.3	Vertical	Pass
6894	-45.21	-13	-32.21	-48.76	7.7	11.25	Vertical	Pass

CatM Band 4-20MHz High channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-51.34	-13	-38.34	-53.92	5.72	8.3	Horizontal	Pass
5208	-47.28	-13	-34.28	-49.28	8.3	10.3	Horizontal	Pass
6944	-47.28	-13	-34.28	-50.83	7.7	11.25	Horizontal	Pass
3472	-50.08	-13	-37.08	-52.66	5.72	8.3	Vertical	Pass
5208	-49.43	-13	-36.43	-51.43	8.3	10.3	Vertical	Pass
6944	-46.6	-13	-33.6	-50.15	7.7	11.25	Vertical	Pass



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Test Mode: 06

CatM Band 12-10MHz Low channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399	-42.24	-13	-29.24	-44.77	2.64	5.17	Horizontal	Pass
2098.5	-54.59	-13	-41.59	-56.92	4.75	7.08	Horizontal	Pass
2798	-52.13	-13	-39.13	-54.6	5.13	7.6	Horizontal	Pass
1399	-54.34	-13	-41.34	-56.87	2.64	5.17	Vertical	Pass
2098.5	-51.17	-13	-38.17	-53.5	4.75	7.08	Vertical	Pass
2798	-50.15	-13	-37.15	-52.62	5.13	7.6	Vertical	Pass

CatM Band 12-10MHz Middle channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406	-41.69	-13	-28.69	-44.22	2.64	5.17	Horizontal	Pass
2109	-55.14	-13	-42.14	-57.47	4.75	7.08	Horizontal	Pass
2812	-51.37	-13	-38.37	-53.84	5.13	7.6	Horizontal	Pass
1406	-55.64	-13	-42.64	-58.17	2.64	5.17	Vertical	Pass
2109	-54.42	-13	-41.42	-56.75	4.75	7.08	Vertical	Pass
2812	-52.41	-13	-39.41	-54.88	5.13	7.6	Vertical	Pass

CatM Band 12-10MHz High channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-41.22	-13	-28.22	-43.75	2.64	5.17	Horizontal	Pass
2119.5	-54.48	-13	-41.48	-56.81	4.75	7.08	Horizontal	Pass
2826	-51.46	-13	-38.46	-53.93	5.13	7.6	Horizontal	Pass
1413	-54.63	-13	-41.63	-57.16	2.64	5.17	Vertical	Pass
2119.5	-55.18	-13	-42.18	-57.51	4.75	7.08	Vertical	Pass
2826	-49.45	-13	-36.45	-51.92	5.13	7.6	Vertical	Pass



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Test Mode: 08

CatM Band 25-20MHz Low channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702	-50.45	-13	-37.55	-52.67	6.99	9.21	Horizontal	Pass
5553	-48.64	-13	-35.64	-50.96	8.27	10.59	Horizontal	Pass
7404	-44.98	-13	-31.96	-48.52	8.19	11.73	Horizontal	Pass
3702	-49.65	-13	-37.72	-51.87	6.99	9.21	Vertical	Pass
5553	-47.65	-13	-34.65	-49.97	8.27	10.59	Vertical	Pass
7404	-45.81	-13	-32.45	-49.35	8.19	11.73	Vertical	Pass

CatM Band 25-20MHz Middle channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3747	-50.73	-13	-37.73	-52.95	6.99	9.21	Horizontal	Pass
5620.5	-47.81	-13	-34.81	-50.13	8.27	10.59	Horizontal	Pass
7494	-44.65	-13	-31.65	-48.19	8.19	11.73	Horizontal	Pass
3747	-51.32	-13	-38.32	-53.54	6.99	9.21	Vertical	Pass
5620.5	-48.1	-13	-35.08	-50.42	8.27	10.59	Vertical	Pass
7494	-45.33	-13	-31.46	-48.87	8.19	11.73	Vertical	Pass

CatM Band 25-20MHz High channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3792	-50.65	-13	-36.64	-52.87	6.99	9.21	Horizontal	Pass
5688	-47.55	-13	-34.28	-49.87	8.27	10.59	Horizontal	Pass
7584	-45.71	-13	-31.4	-49.54	8.43	12.26	Horizontal	Pass
3792	-49.4	-13	-36.38	-51.62	6.99	9.21	Vertical	Pass
5688	-49.46	-13	-35.28	-51.78	8.27	10.59	Vertical	Pass
7584	-46.25	-13	-32.66	-50.08	8.43	12.26	Vertical	Pass



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Test Mode: 07

CatM Band 13-10MHz Middle channel, Modulation: QPSK, 1 RB								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1555	-49.08	-13	-34.67	-52.74	3.77	7.43	Horizontal	Pass
2332.5	-49.85	-13	-34.97	-52.18	4.75	7.08	Horizontal	Pass
3110	-49.29	-13	-36.29	-51.87	5.72	8.3	Horizontal	Pass
1555	-52.16	-13	-39.65	-55.82	3.77	7.43	Vertical	Pass
2332.5	-53.54	-13	-40.54	-55.87	4.75	7.08	Vertical	Pass
3110	-48.29	-13	-36.17	-50.87	5.72	8.3	Vertical	Pass

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.

EIRP= S.G. Power- Cable loss+ Antenna Gain



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6.8 Frequency stability

Test Requirement	Reference test summary
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	Reference test summary

6.8.1 E.U.T. Operation

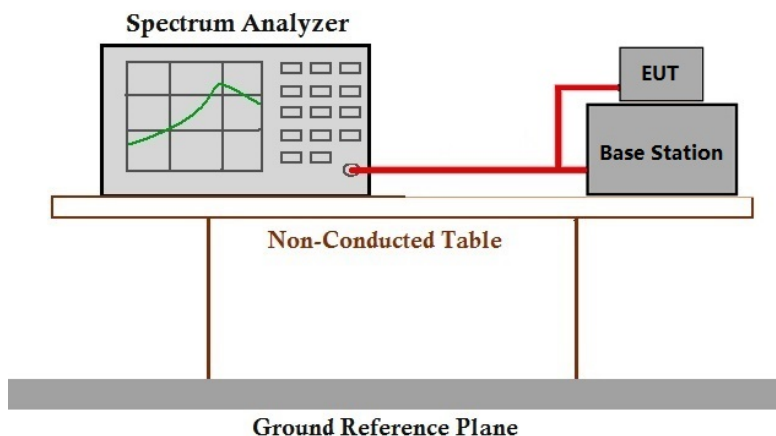
Operating Environment:

Temperature: 22.4 °C Humidity: 56.6 % RH Atmospheric Pressure: 1001 mbar

6.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Establish communication connection with auxiliary equipment CMW500 and keep the EUT in transmitting mode.

6.8.3 Test Setup Diagram



6.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR240600070102



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2407000701ME

--End of the Report--



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