

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400120201

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TEST REPORT

Application No.: SZCR2404001202ME
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
Equipment Under Test (EUT):
Product Name: TeleRPM Gen2 Blood Glucose Meter
Model No.(EUT): BGM 2280-A
FCC ID: OU9BGM2280A
Standard(s) : 47 CFR Part 2
47 CFR Part 24 subpart E
47 CFR Part 27 subpart C
Date of Receipt: 2024-04-07
Date of Test: 2024-04-11 to 2024-04-25
Date of Issue: 2024-04-25

Test Result:**Pass***

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

Keny Xu

Keny Xu
EMC Laboratory ManagerSGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, EMC Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-04-25		Original
02		2024-05-23		Updated PAR test data

Authorized for issue by:				
		Edison Li		
		Edison Li/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		

2 Test Summary

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
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §24.238	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051 §24.238	≤ -13 dBm, on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB.	PASS
Field strength of spurious radiation	§2.1053 §24.238	≤ -13 dBm, on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB.	PASS
Frequency stability	§2.1055 §24.235	≤ ±2.5ppm	PASS

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
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(h)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(h)	≤ -13 dBm, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.	PASS
Field strength of spurious radiation	§2.1053 §27.53(h)	≤ -13dBm, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB	PASS
Frequency stability	§2.1055 §27.54	≤ ±2.5ppm	PASS



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CatM1 Band 12

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)	ERP≤3W	PASS
Peak-Average Ratio	§2.1046 §27.50(c)	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(g)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(g)	≤ -13 dBm, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log ₁₀ (P) dB.	PASS
Field strength of spurious radiation	§2.1053 §27.53(g)	≤ -13dBm, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log ₁₀ (P) dB	PASS
Frequency stability	§2.1055 §27.54	≤ ±2.5ppm	PASS

CatM1 Band 13

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)	ERP≤3W	PASS
Peak-Average Ratio	§2.1046 §27.50(c)	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(g)	≤ -13dBm/100kHz, (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(g)	(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations	PASS
Field strength of spurious radiation	§2.1053 §27.53(g)		PASS
Frequency stability	§2.1055 §27.54	≤ ±2.5ppm	PASS

Note: 47 CFR Part 2 is not accredited by A2LA.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC Adapter Model: BLJ06L050100U-U Input: AC 100-240V, 50/60Hz Output: DC 5.0V, 1.0A DC 3.7V, 1300mAh rechargeable Li-ion battery which charged by AC adapter
USB Type C cable	Type-C cable:80cm unshielded
Internal Source:	More than 108MHz
Sample Type:	Portable device
Operation Frequency Band:	CatM1 Band 2, 4, 12, 13
Modulation Type:	QPSK, 16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	CatM1 Band 2: 3.67dBi CatM1 Band 4: 1.39dBi CatM1 Band 12: -2.98dBi CatM1 Band 13: -1.82dBi
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	3.6VDC to 4.2VDC (nominal: 3.7VDC)

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 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	1850.87	1879.37	1909.13
	5	1850.79	1878.29	1909.21
	10	1851.22	1876.22	1908.78
	15	1851.47	1873.97	1908.53
	20	1851.9	1871.9	1908.1
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	1710.87	1731.87	1754.13
	5	1710.79	1730.79	1754.21
	10	1711.22	1728.72	1753.78
	15	1711.47	1726.47	1753.53
	20	1711.9	1724.4	1753.1
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	699.87	706.87	715.13
	5	699.79	705.79	715.21
	10	700.22	703.72	714.78
Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
CatM1 Band 13	5	777.79	780.29	786.21
	10	778.22	778.22	785.78



4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.6 V
	VN	3.7 V
	VH	4.2 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

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08
RF Cable	SGS	N/A(Cable loss:0.6dB)	N/A



4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	5.14dB (below 1GHz)
		5.08dB (above 1GHz)
8	Radiated Spurious emission test	5.14dB (below 1GHz)
		5.08dB (above 1GHz)
9	Temperature test	1°C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2023/07/11	2024/07/10
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024/3/19	2025/3/18
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2023/07/11	2024/07/10
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023/07/11	2024/07/10
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024/3/14	2025/3/13
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2024/3/15	2025/3/14

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2023/07/11	2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	2023/07/11	2024/07/10
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2023/07/11	2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2023/07/11	2024/07/10
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022/08/07	2025/08/06
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2023/07/11	2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	2023/07/11	2024/07/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2023/07/11	2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2023/07/11	2024/07/10



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Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023/07/11	2024/07/10
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2023/07/11	2024/07/10
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2023/06/25	2026/06/24
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024/3/14	2025/3/13

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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6 Radio Spectrum Matter Test Results

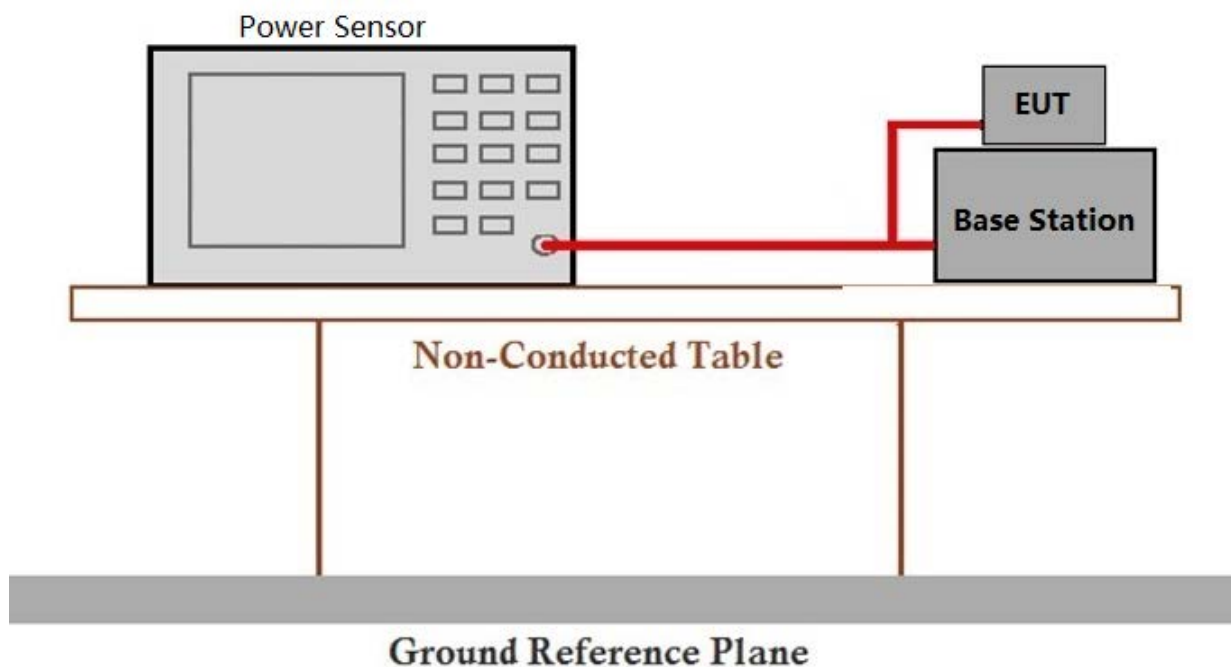
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Reference test summary

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix_FCC_CatM_4G_RF power

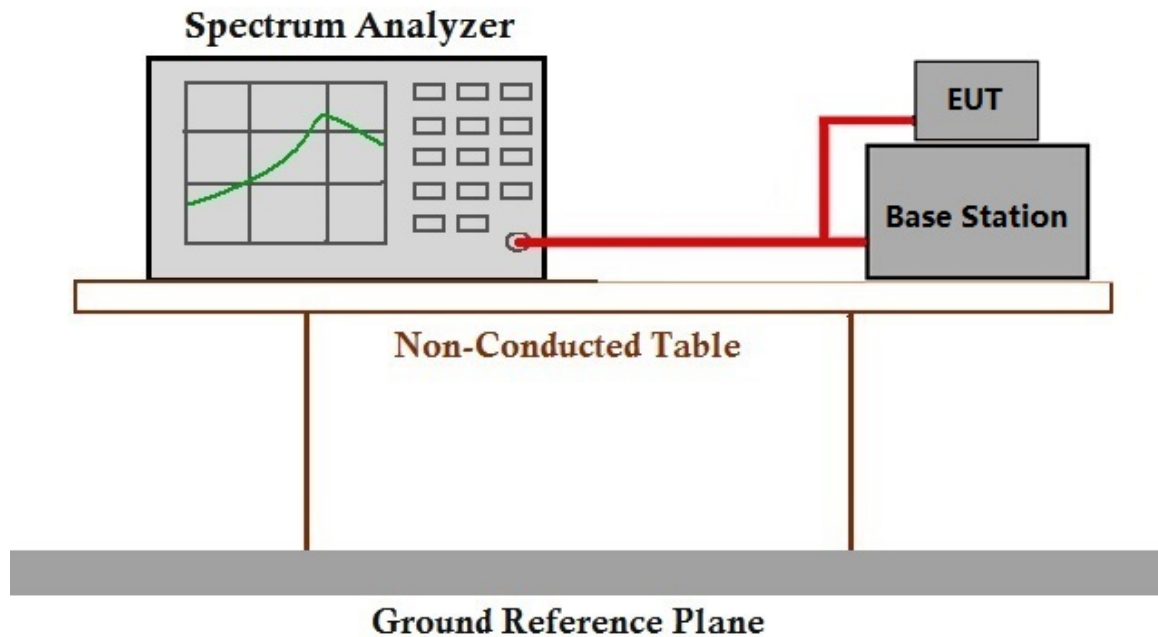
6.2 Peak-Average Ratio

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: $\leq 13\text{dB}$

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix_FCC_CatM_4G_PAR

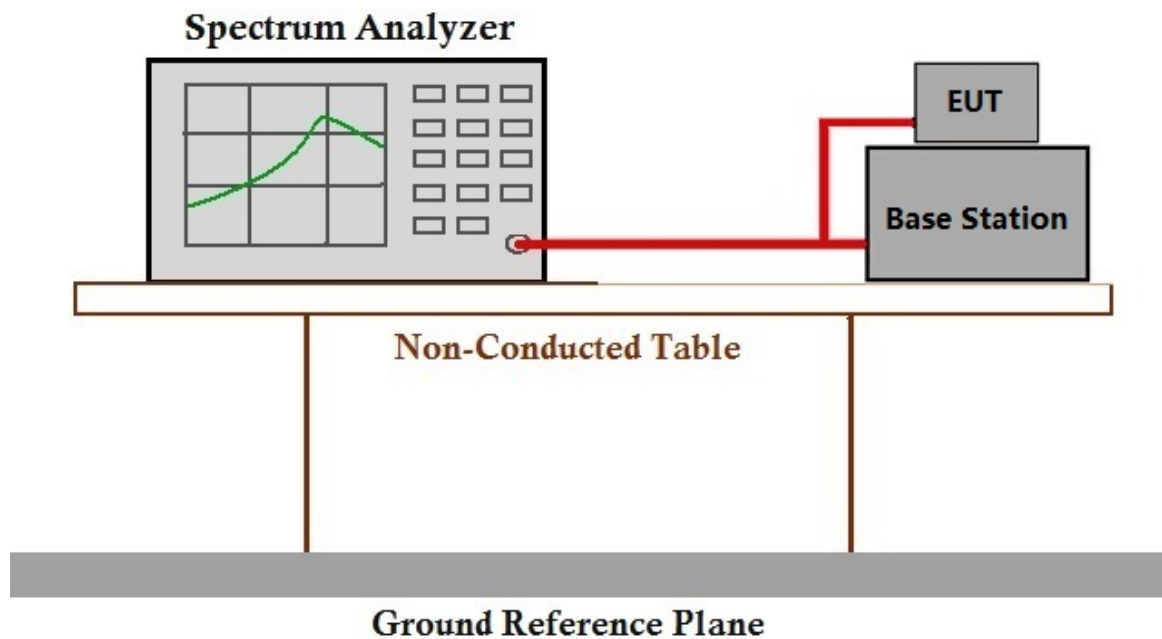
6.3 Bandwidth

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: OBW: No limit
 EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix_FCC_CatM_4G_Bandwidth

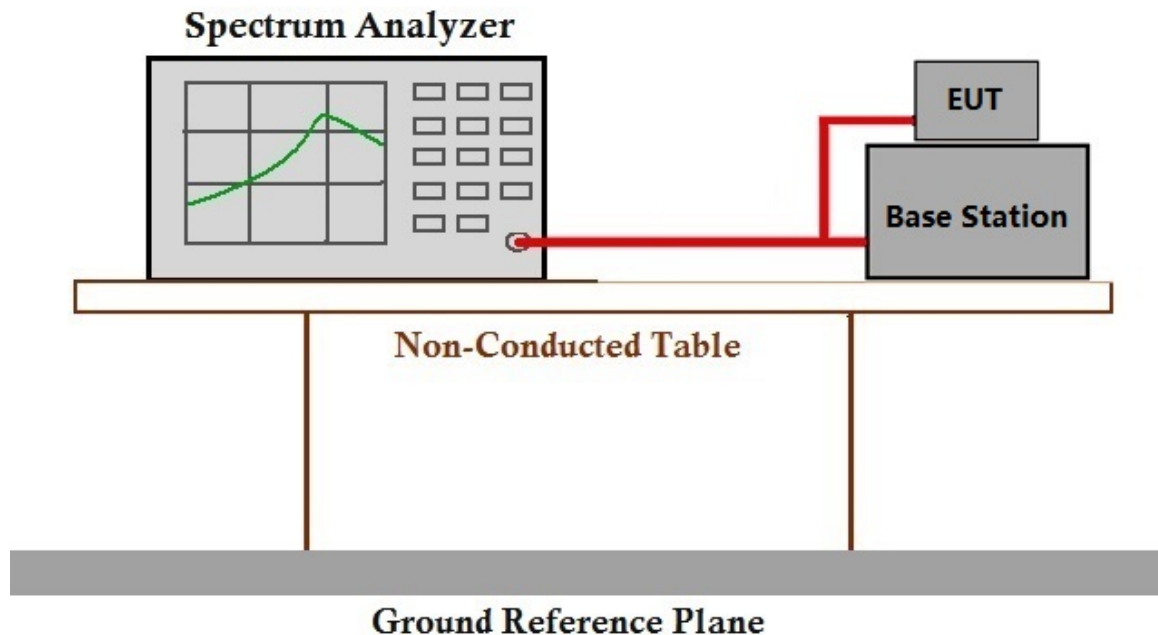
6.4 Band Edge Compliance

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Reference test summary

6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix_FCC_CatM_4G_Bandedge

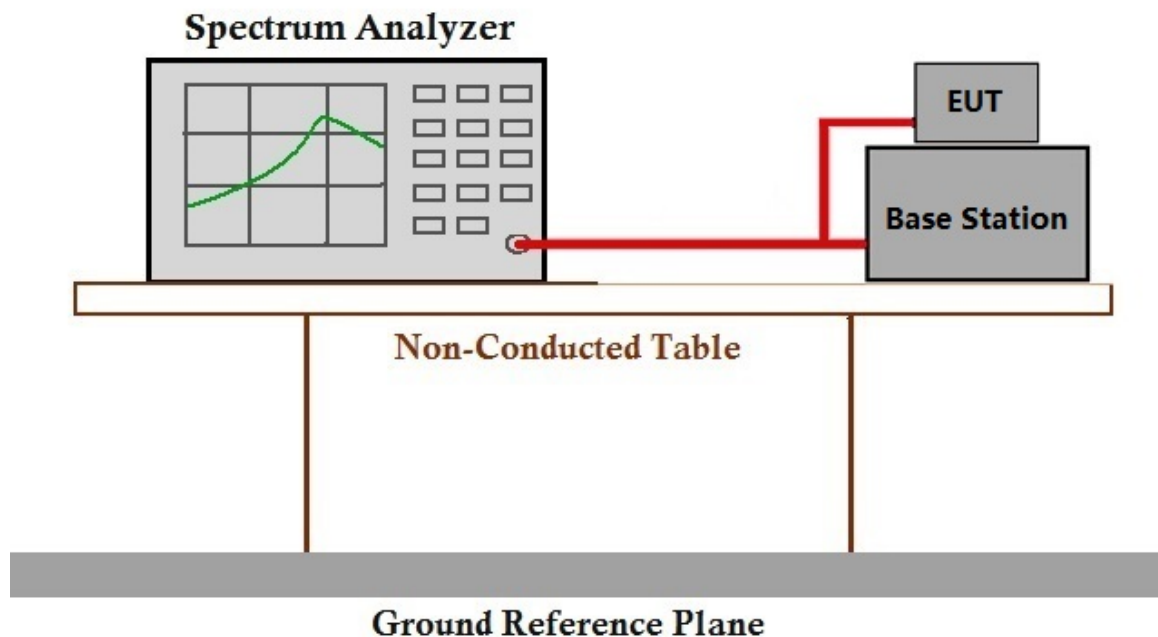
6.5 Spurious emissions at antenna terminals

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Reference test summary

6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix_FCC_CatM_4G_Spurious emission

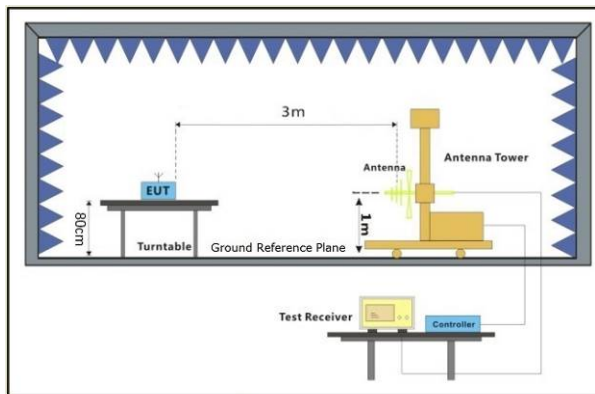
6.6 Field strength of spurious radiation

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Reference test summary

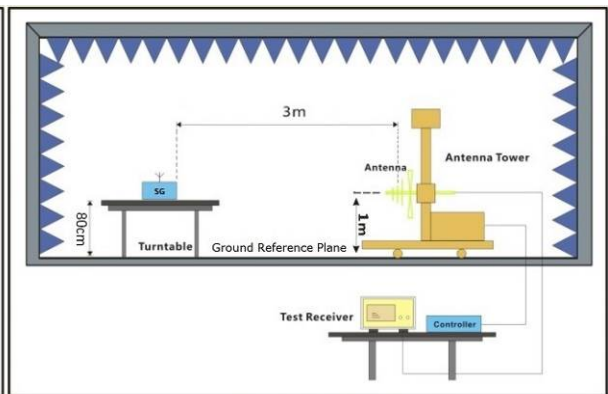
6.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

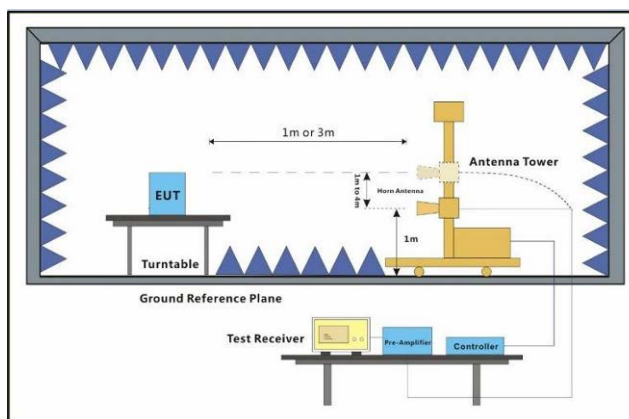
6.6.2 Test Setup Diagram



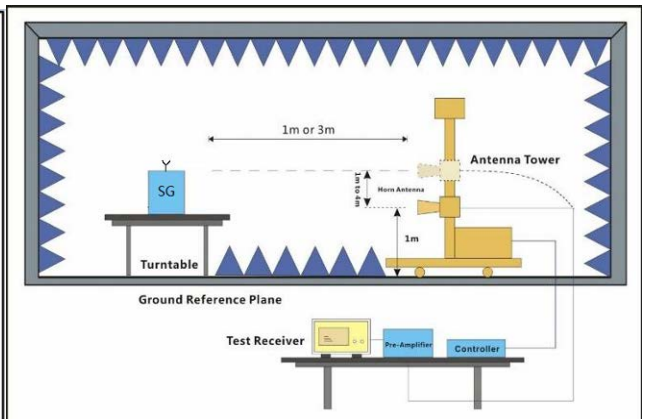
EUT



Substitute Antenna+Signal Generator



EUT



Substitute Antenna+Signal Generator

6.6.3 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.

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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	-56.00	-13.00	-43.00	-60.88	3.29	8.17	Horizontal	Pass
5553	-53.46	-13.00	-40.46	-59.67	4.24	10.45	Horizontal	Pass
7404	-49.16	-13.00	-36.16	-56.10	4.19	11.13	Horizontal	Pass
3702	-56.48	-13.00	-43.48	-61.36	3.29	8.17	Vertical	Pass
5553	-53.61	-13.00	-40.61	-59.82	4.24	10.45	Vertical	Pass
7404	-49.55	-13.00	-36.55	-56.49	4.19	11.13	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	-56.83	-13.00	-43.83	-61.71	3.29	8.17	Horizontal	Pass
5613	-53.58	-13.00	-40.58	-59.79	4.24	10.45	Horizontal	Pass
7484	-48.89	-13.00	-35.89	-55.83	4.19	11.13	Horizontal	Pass
3742	-56.34	-13.00	-43.34	-61.22	3.29	8.17	Vertical	Pass
5613	-55.23	-13.00	-42.23	-61.44	4.24	10.45	Vertical	Pass
7484	-49.78	-13.00	-36.78	-56.72	4.19	11.13	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	-55.71	-13.00	-42.71	-60.59	3.29	8.17	Horizontal	Pass
5673	-53.80	-13.00	-40.80	-60.01	4.24	10.45	Horizontal	Pass
7564	-49.82	-13.00	-36.82	-57.34	4.22	11.74	Horizontal	Pass
3782	-56.70	-13.00	-43.70	-61.58	3.29	8.17	Vertical	Pass
5673	-54.07	-13.00	-41.07	-60.28	4.24	10.45	Vertical	Pass
7564	-49.94	-13.00	-36.94	-57.46	4.22	11.74	Vertical	Pass



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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	-56.54	-13.00	-43.54	-60.50	2.96	6.92	Horizontal	Pass
5133	-53.92	-13.00	-40.92	-59.80	4.26	10.14	Horizontal	Pass
6844	-52.41	-13.00	-39.41	-58.69	4.21	10.49	Horizontal	Pass
3422	-56.90	-13.00	-43.90	-60.86	2.96	6.92	Vertical	Pass
5133	-54.29	-13.00	-41.29	-60.17	4.26	10.14	Vertical	Pass
6844	-51.98	-13.00	-38.98	-58.26	4.21	10.49	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	-57.74	-13.00	-44.74	-61.70	2.96	6.92	Horizontal	Pass
5170.5	-53.68	-13.00	-40.68	-59.56	4.26	10.14	Horizontal	Pass
6894	-52.73	-13.00	-39.73	-59.01	4.21	10.49	Horizontal	Pass
3447	-57.45	-13.00	-44.45	-61.41	2.96	6.92	Vertical	Pass
5170.5	-54.47	-13.00	-41.47	-60.35	4.26	10.14	Vertical	Pass
6894	-52.56	-13.00	-39.56	-58.84	4.21	10.49	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	-56.71	-13.00	-43.71	-60.67	2.96	6.92	Horizontal	Pass
5208	-53.82	-13.00	-40.82	-59.70	4.26	10.14	Horizontal	Pass
6944	-51.34	-13.00	-38.34	-57.62	4.21	10.49	Horizontal	Pass
3472	-57.13	-13.00	-44.13	-61.09	2.96	6.92	Vertical	Pass
5208	-54.49	-13.00	-41.49	-60.37	4.26	10.14	Vertical	Pass
6944	-51.35	-13.00	-38.35	-57.63	4.21	10.49	Vertical	Pass



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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	-65.77	-13.00	-52.77	-66.84	1.64	2.71	Horizontal	Pass
2098.5	-62.03	-13.00	-49.03	-64.30	2.35	4.62	Horizontal	Pass
2798	-59.28	-13.00	-46.28	-62.44	2.66	5.82	Horizontal	Pass
1399	-63.54	-13.00	-50.54	-64.61	1.64	2.71	Vertical	Pass
2098.5	-62.52	-13.00	-49.52	-64.79	2.35	4.62	Vertical	Pass
2798	-58.91	-13.00	-45.91	-62.07	2.66	5.82	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	-65.60	-13.00	-52.60	-66.67	1.64	2.71	Horizontal	Pass
2109	-62.98	-13.00	-49.98	-65.25	2.35	4.62	Horizontal	Pass
2812	-59.61	-13.00	-46.61	-62.77	2.66	5.82	Horizontal	Pass
1406	-63.43	-13.00	-50.43	-64.50	1.64	2.71	Vertical	Pass
2109	-62.73	-13.00	-49.73	-65.00	2.35	4.62	Vertical	Pass
2812	-59.79	-13.00	-46.79	-62.95	2.66	5.82	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	-67.28	-13.00	-54.28	-68.35	1.64	2.71	Horizontal	Pass
2119.5	-62.15	-13.00	-49.15	-64.42	2.35	4.62	Horizontal	Pass
2826	-59.10	-13.00	-46.10	-62.26	2.66	5.82	Horizontal	Pass
1413	-63.80	-13.00	-50.80	-64.87	1.64	2.71	Vertical	Pass
2119.5	-63.02	-13.00	-50.02	-65.29	2.35	4.62	Vertical	Pass
2826	-58.21	-13.00	-45.21	-61.37	2.66	5.82	Vertical	Pass



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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	-66.62	-13.00	-53.62	-70.50	2.00	5.88	Horizontal	Pass
2332.5	-62.55	-13.00	-49.55	-64.82	2.35	4.62	Horizontal	Pass
3110	-56.09	-13.00	-43.09	-60.05	2.96	6.92	Horizontal	Pass
1555	-64.47	-13.00	-51.47	-68.35	2.00	5.88	Vertical	Pass
2332.5	-62.51	-13.00	-49.51	-64.78	2.35	4.62	Vertical	Pass
3110	-55.38	-13.00	-42.38	-59.34	2.96	6.92	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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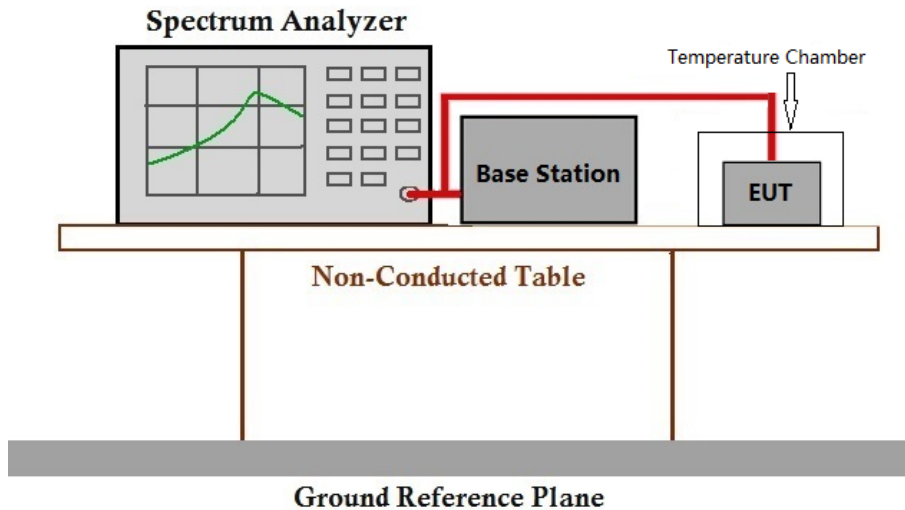
6.7 Frequency stability

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Reference test summary

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 02: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix_FCC_CatM_4G_Frequency stability

7 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2404001202ME

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for SZCR2404001202ME

- End of the Report -

