

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200563801

Page: 1 of 17

TEST REPORT

Application No.: SZCR2512005638ME

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):

EUT Name: TeleRPM Gen2 Blood Glucose Meter

Model No.: BGM 2280-A

Trade Mark: 

FCC ID: OU9BGM2280A

Standard(s) : 47 CFR Part 2;
47 CFR Part 24 subpart E;
47 CFR Part 27 subpart C

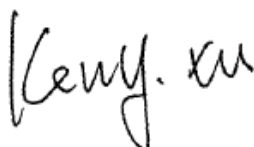
Date of Receipt: 2025-12-19

Date of Test: 2026-01-01

Date of Issue: 2026-01-07

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



Keny Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-01-07		Original

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



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Shenzhen Branch Inspection & Testing Laboratory

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2 Test Summary

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Field Strength of Spurious Radiation	47 CFR Part 2 47 CFR Part 24 47 CFR Part 27	FCC: ≤ -13 dBm	Page13~16	Pass

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

Remark for report SZCR251200563801:

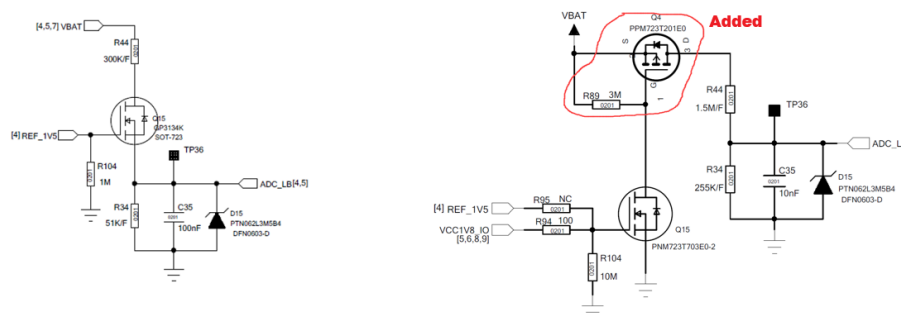
Model No.: BGM 2280-A

This report is prepared for FCC class II permissive change to add batteries and change the Model name, trademark and PCB layout.

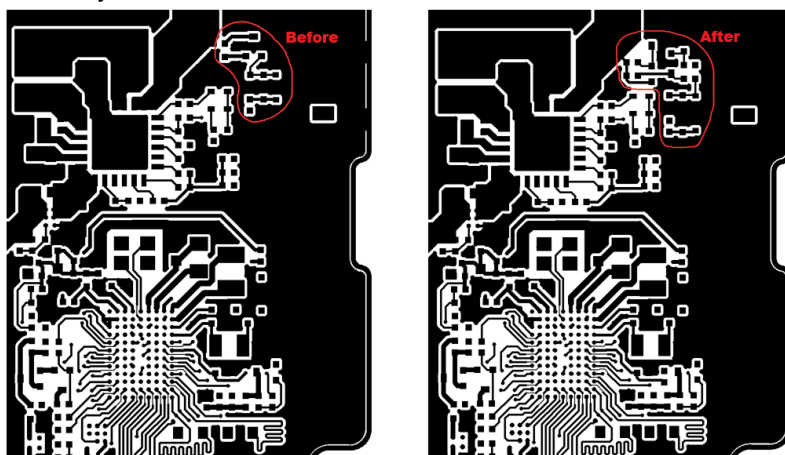
This test report (Ref. No.: SZCR251200563801) is only valid with the original test report (Ref. No.: SZCR240400120201, FCC ID:OU9BGM2280A, Granted on 06/11/2024).

According to the declaration from the applicant, the models in this report and models in original report were identical on electrical circuit design, components used and internal wiring, only difference with being the battery and PCB layout, a detailed description of the PCB board modifications is provided below:

Circuit diagram



PCB Layout





Reasons and objectives for modifying the schematic and PCB.

1. Reason for schematic modification: When the battery voltage reaches 4.2V, MOSFET Q15 becomes uncontrollable and fails to fully conduct, resulting in inaccurate battery level detection.
2. Purpose of modification: To iteratively incorporate a secondary control circuit, rendering the battery voltage detection switching circuit controllable and effective, thereby ensuring accurate battery charge detection.
3. Modification details: Addition of Q4 PMOS transistor, R89, and R94 to form the secondary control circuit for the switching mechanism.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Field Strength of Spurious Radiation was fully retested on Model BGM 2280-A and shown the data in this report, other tests please refer to original report SZCR240400120201.

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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 Rechargeable Li-ion Battery1 Model: 494645 3.7V/1300mAh/4.81Wh 1ICP5/46/45 Limited charge voltage:4.2V Manufacturer: Dongguan Golden CEL Battery Co., Ltd. Rechargeable Li-ion Battery2 Model: 484645 1ICP5/46/45 Rated capacity: 1300mAh, 4.81Wh Typical capacity: 1350mAh, 5Wh Rated Voltage: 3.7Vdc Limited Charge Voltage:4.2Vdc Manufacturer: Xinyu Ganfeng Electronics Co., Ltd.
Cable(s):	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



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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

4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field strength of spurious radiation	4.5dB; 4.8dB
Remark: The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/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.	

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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

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

• 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



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5 Equipment List

Radiated spurious emissions					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-19	2027-12-18
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-23	2026-12-22
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



6 Radio Spectrum Matter Test Results

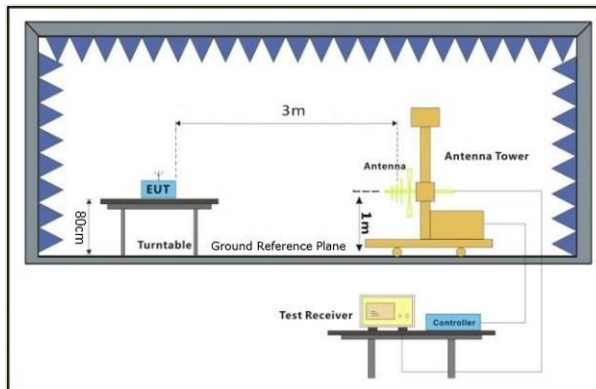
6.1 Field strength of spurious radiation

Test Requirement: Reference test summary
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03
 Test Engineer: Xing Guo
 Limit: Reference test summary

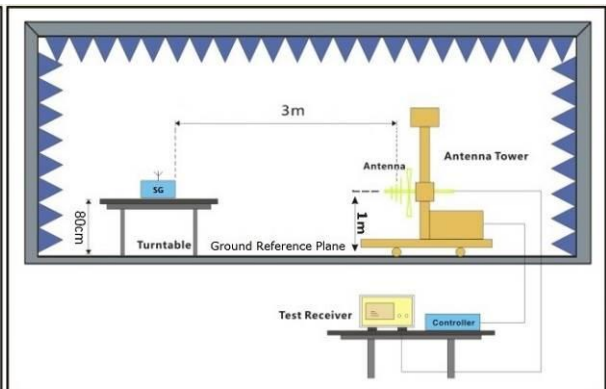
6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.6 °C Humidity: 53.9 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 05: Tx mode, Keep the EUT in transmitting mode.

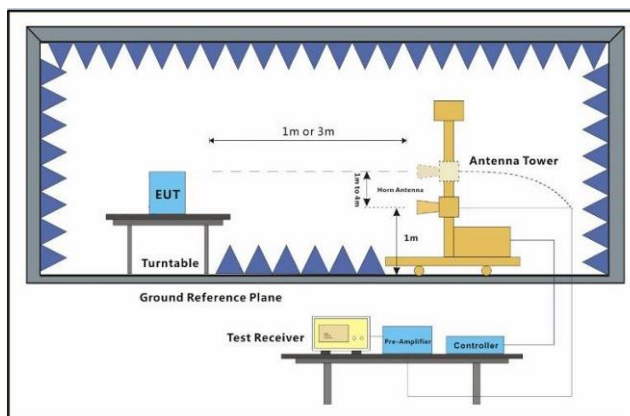
6.1.2 Test Setup Diagram



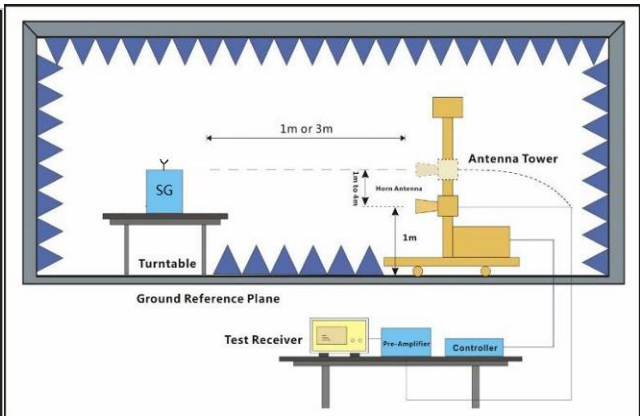
EUT



Substitute Antenna+Signal Generator



EUT



Substitute Antenna+Signal Generator



6.1.3 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-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3703.723	-29.85	-13	-16.85	-34.11	4.18	8.44	Horizontal	Pass
5551.069	-35.4	-13	-22.4	-40.47	5.38	10.45	Horizontal	Pass
7411.461	-42.39	-13	-29.39	-48.4	5.62	11.63	Horizontal	Pass
3703.723	-39.38	-13	-26.38	-43.64	4.18	8.44	Vertical	Pass
5551.069	-33.44	-13	-20.44	-38.51	5.38	10.45	Vertical	Pass
7411.461	-38.75	-13	-25.75	-44.76	5.62	11.63	Vertical	Pass

CatM Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3746.792	-29.68	-13	-16.68	-34.01	4.17	8.5	Horizontal	Pass
5615.62	-34.42	-13	-21.42	-39.51	5.36	10.45	Horizontal	Pass
7476.006	-41.71	-13	-28.71	-47.79	5.63	11.71	Horizontal	Pass
3746.792	-40.78	-13	-27.78	-45.11	4.17	8.5	Vertical	Pass
5615.62	-39.46	-13	-26.46	-44.55	5.36	10.45	Vertical	Pass
7476.006	-42.97	-13	-29.97	-49.05	5.63	11.71	Vertical	Pass

CatM Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3779.422	-33.27	-13	-20.27	-37.65	4.16	8.54	Horizontal	Pass
5680.921	-36.77	-13	-23.77	-41.89	5.33	10.45	Horizontal	Pass
7562.942	-40.55	-13	-27.55	-46.73	5.63	11.81	Horizontal	Pass
3779.422	-41.23	-13	-28.23	-45.61	4.16	8.54	Vertical	Pass
5680.921	-38.48	-13	-25.48	-43.6	5.33	10.45	Vertical	Pass
7562.942	-39.08	-13	-26.08	-45.26	5.63	11.81	Vertical	Pass



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CatM Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3425.675	-39.55	-13	-26.55	-43.42	4.11	7.98	Horizontal	Pass
5134.335	-45.3	-13	-32.3	-50.29	5.23	10.22	Horizontal	Pass
6855.063	-50.54	-13	-37.54	-55.94	5.54	10.94	Horizontal	Pass
3425.675	-47.23	-13	-34.23	-51.1	4.11	7.98	Vertical	Pass
5134.335	-48.94	-13	-35.94	-53.93	5.23	10.22	Vertical	Pass
6855.063	-50.04	-13	-37.04	-55.44	5.54	10.94	Vertical	Pass

CatM Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3445.535	-33.54	-13	-20.54	-37.43	4.14	8.03	Horizontal	Pass
5179.049	-42.85	-13	-29.85	-47.85	5.25	10.25	Horizontal	Pass
6894.806	-46.8	-13	-33.8	-52.25	5.55	11.0	Horizontal	Pass
3445.535	-46.59	-13	-33.59	-50.48	4.14	8.03	Vertical	Pass
5179.049	-44.29	-13	-31.29	-49.29	5.25	10.25	Vertical	Pass
6894.806	-44.78	-13	-31.78	-50.23	5.55	11.0	Vertical	Pass

CatM Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3475.541	-42.48	-13	-29.48	-46.41	4.18	8.11	Horizontal	Pass
5209.075	-46.59	-13	-33.59	-51.59	5.27	10.27	Horizontal	Pass
6954.852	-49.73	-13	-36.73	-55.24	5.56	11.07	Horizontal	Pass
3475.541	-44.98	-13	-31.98	-48.91	4.18	8.11	Vertical	Pass
5209.075	-49.54	-13	-36.54	-54.54	5.27	10.27	Vertical	Pass
6954.852	-44.74	-13	-31.74	-50.25	5.56	11.07	Vertical	Pass



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CatM Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-42.49	-13	-29.49	-44.54	3.19	5.24	Horizontal	Pass
2098.5	-53.4	-13	-40.4	-54.91	3.35	4.86	Horizontal	Pass
2798.0	-65.76	-13	-52.76	-68.79	3.45	6.48	Horizontal	Pass
1399.0	-53.15	-13	-40.15	-55.2	3.19	5.24	Vertical	Pass
2098.5	-57.51	-13	-44.51	-59.02	3.35	4.86	Vertical	Pass
2798.0	-68.34	-13	-55.34	-71.37	3.45	6.48	Vertical	Pass

CatM Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-43.17	-13	-30.17	-45.25	3.2	5.28	Horizontal	Pass
2109.0	-48.8	-13	-35.8	-50.33	3.35	4.88	Horizontal	Pass
2812.0	-64.96	-13	-51.96	-68.02	3.45	6.51	Horizontal	Pass
1406.0	-53.47	-13	-40.47	-55.55	3.2	5.28	Vertical	Pass
2109.0	-61.8	-13	-48.8	-63.33	3.35	4.88	Vertical	Pass
2812.0	-68.21	-13	-55.21	-71.27	3.45	6.51	Vertical	Pass

CatM Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-43.52	-13	-30.52	-45.64	3.21	5.33	Horizontal	Pass
2119.5	-52.65	-13	-39.65	-54.2	3.36	4.91	Horizontal	Pass
2826.0	-65.83	-13	-52.83	-68.92	3.45	6.54	Horizontal	Pass
1413.0	-55.94	-13	-42.94	-58.06	3.21	5.33	Vertical	Pass
2119.5	-66.35	-13	-53.35	-67.9	3.36	4.91	Vertical	Pass
2826.0	-68.24	-13	-55.24	-71.33	3.45	6.54	Vertical	Pass



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CatM Band 13-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1555.0	-53.26	-13	-40.26	-55.7	3.3	5.74	Horizontal	Pass
2332.5	-56.79	-13	-43.79	-58.81	3.4	5.42	Horizontal	Pass
3110.0	-67.13	-13	-54.13	-70.7	3.63	7.2	Horizontal	Pass
1555.0	-62.91	-13	-49.91	-65.35	3.3	5.74	Vertical	Pass
2332.5	-65.91	-13	-52.91	-67.93	3.4	5.42	Vertical	Pass
3110.0	-67.17	-13	-54.17	-70.74	3.63	7.2	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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7 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2512005638ME

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for SZCR2512005638ME

- End of the Report -

