

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600239905

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TEST REPORT

Application No.: SZCR2506002399AT

Applicant: Cosmo Technologies, Inc.

Address of Applicant: 1312 17th St #450 Denver, Colorado, 80202 United States

Manufacturer: Shenzhen Qinmi Smart Technology Co., Ltd.

Address of Manufacturer: 3rd floor, Building 09, Tongfuyu Industrial Park, Lezhujiao Village, Xixiang,

Baoan, Shenzhen

Equipment Under Test (EUT):

EUT Name: COSMO JrTrack Kids Smartwatch

Model No.: JRTV5 Trade Mark: **JrTrack**

FCC ID: 2A3RL-JRTRACK05 Standard(s): 47 CFR Part 2

> 47 CFR Part 22 47 CFR Part 24

Date of Receipt: 2025-06-06

Date of Test: 2025-06-11 to 2025-07-01

Date of Issue: 2025-07-08

Test Result: Pass*

Leny. Ku

EMC Laboratory Manager



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



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	Revision Record							
Version Chapter Date Modifier Re								
01		2025-07-08		Original				

Authorized for issue by:			
	Calvin Weng		
	Calvin Weng/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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2 Test Summary

Test Item	FCC	Requirements	Verdict
1001110111	Rule No.	rtoquii omente	Voraiot
Effective (Instruction) Dedicated	§2.1046,	EDD<7\M/CCM950\	
Effective (Isotropic) Radiated Power Output Data	§22.913,	ERP≤7W(GSM850) EIRP≤2W(PCS1900)	PASS
, c	§24.232	21111 -211(1 00 1000)	
Peak-Average Ratio	§24.232	≤13dB	PASS
Bandwidth	\$2.1040(b)	OBW: No limit	PASS
Bariuwiutii	§2.1049(h)	EBW: No limit	PASS
	§2.1051,	≤ -13dBm/1%*EBW, in 1 MHz bands	
Band Edge Compliance	§22.917,	immediately outside and adjacent to the	PASS
	§24.238	frequency block.	
	§2.1051,		
Spurious emissions at antenna terminals	§22.917,	≤ -13dBm	PASS
terrinals	§24.238		
Eight at a second of a second	§2.1051,		
Field strength of spurious radiation	§22.917,	≤ -13dBm	PASS
radiation	§24.238		
	§2.1055,		
Frequency stability	§22.355,	≤ ±2.5ppm.	PASS
	§24.235		



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.8V by li-ion battery(680mAh)		
	Recharge input:DC5V/1000mA		
	Adapter M/N:PSD15-5W-0501000US		
	Adapter Input: AC100/240V,50/60Hz, 0.15A		
Cable(s):	charging cable:1.8m unshielded		
Cable Loss (for RF conducted test):	Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB		
Sample Type:	Portable product		
Support Network:	GSM, GPRS, EGPRS		
Operation Frequency Band:	GSM850/PCS1900		
Madulation Tunes	GMSK for GSM/GPRS/EGPRS;		
Modulation Type:	8PSK for EGPRS;		
GPRS Class:	12		
EGPRS Class:	12		
Antenna Type:	Internal antenna		
Antenna Gain:	GSM850: -6.33dBi, PCS1900: -2.57dBi		

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4.2 Test Frequency

	<u> </u>					
Test mode:	TΧ	RF Channel				
rest mode.	17	Low (L)	Middle (M)	High (H)		
GSM850	TX	Channel 128	Channel 190	Channel 251		
GSIVIOSU		824.2MHz	836.6 MHz	848.8 MHz		
Test mode:	TX	RF Channel				
rest mode.		Low (L)	Middle (M)	High (H)		
DCS1000	00 TX	Channel 512	Channel 661	Channel 810		
PCS1900		1850.2MHz	1880.0 MHz	1909.8 MHz		

4.3 Test Environment

Environment Parameter	Selected Values During Tests			
Temperature:	TL	-30°C		
	TN	+20°C		
	TH	+50°C		
	VL	3.5 Vdc		
Voltage:	VN	3.8 Vdc		
	VH	4.35 Vdc		

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

The EUT has been tested independent unit.



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4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 ⁻⁸
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Dedicted Courieus emission test	± 3.1dB (Below 1GHz)
1	Radiated Spurious emission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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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.

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

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**

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2024-07-10	2025-07-09
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-30	2025-03-03	2026-03-02
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	N/A	N/A
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-11	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2025-03-05	2026-03-04

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2023-09-23	2025-09-22
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2024-09-14	2025-09-13
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2023-09-17	2025-09-16
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2025-03-21	2026-03-20



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Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2024-08-03	2025-08-02
Substitution Antenna	ETS-LINDGREN	3160-09	SEM003-12	2024-08-03	2025-08-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2025-03-03	2026-03-02

General used equipment										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Humidity- Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23					
Humidity- Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02					



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Radio Spectrum Matter Test Results 6

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

I imit: ERP≤7W(GSM850)

 $EIRP \le 2W(PCS1900)$

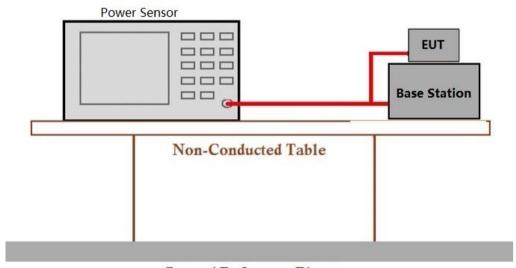
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data

Please refer to Appendix for GSM RF power test data.



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6.2 Peak-Average Ratio

Test Requirement: §24.232

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

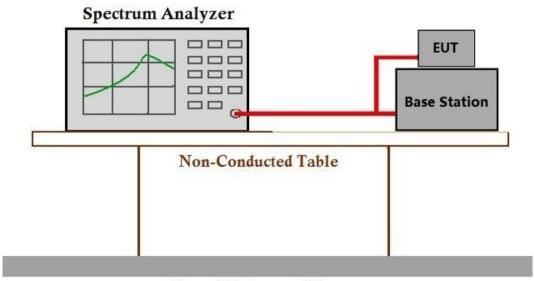
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data

Please refer to Appendix for GSM PAR test data.



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6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: **OBW: No limit** EBW: No limit

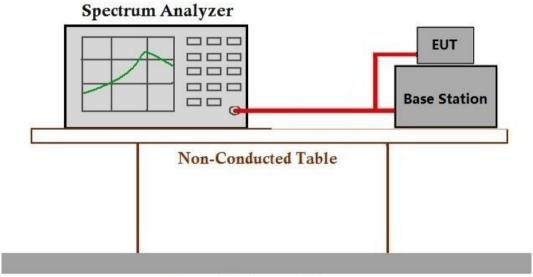
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

Test mode: 30:TX mode Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix for GSM bandwidth test data.



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6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to Limit:

the frequency block.

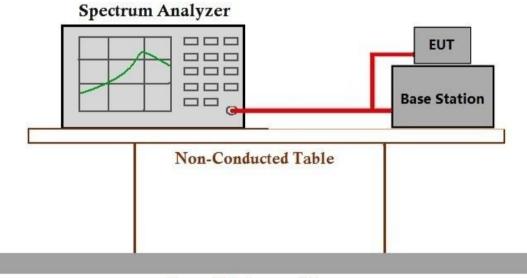
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Data

Please refer to Appendix for GSM CSE test data.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm

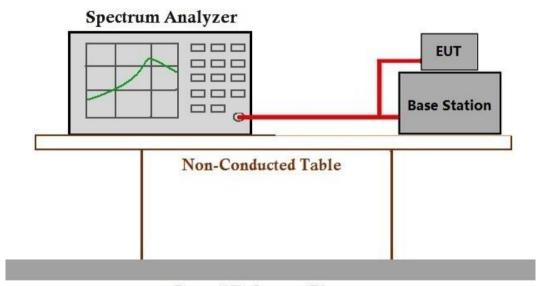
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data

Please refer to Appendix for GSM CSE test data.



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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm

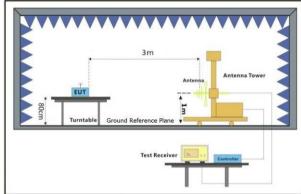
6.6.1 E.U.T. Operation

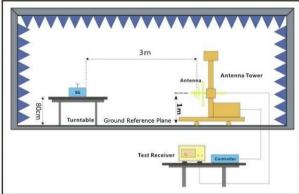
Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

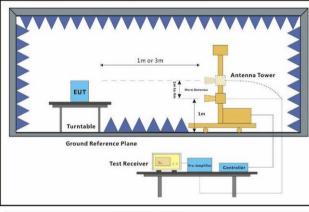
6.6.2 Test Setup Diagram

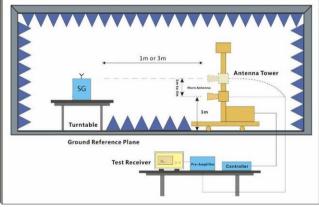




EUT

Substiute Antenna+Signal Generator





EUT

Substiute Antenna+Signal Generator



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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 than 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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	GSM850-Low channel											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1648.4	-62.17	-13	-49.17	-65.06	2.62	5.51	Horizontal	Pass				
2472.6	-61.67	-13	-48.67	-64.36	3.06	5.75	Horizontal	Pass				
3296.8	-56.83	-13	-43.83	-61.19	3.3	7.66	Horizontal	Pass				
1648.4	-62.98	-13	-49.98	-65.87	2.62	5.51	Vertical	Pass				
2472.6	-60.62	-13	-47.62	-63.31	3.06	5.75	Vertical	Pass				
3296.8	-58.17	-13	-45.17	-62.53	3.3	7.66	Vertical	Pass				

	GSM850-Middle channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1672.8	-63.18	-13	-50.18	-65.99	2.63	5.44	Horizontal	Pass			
2509.2	-61.8	-13	-48.8	-64.56	3.08	5.84	Horizontal	Pass			
3345.6	-56.96	-13	-43.96	-61.42	3.32	7.78	Horizontal	Pass			
1672.8	-63.19	-13	-50.19	-66.0	2.63	5.44	Vertical	Pass			
2509.2	-60.91	-13	-47.91	-63.67	3.08	5.84	Vertical	Pass			
3345.6	-58.39	-13	-45.39	-62.85	3.32	7.78	Vertical	Pass			

GSM850-High channel											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1693.2	-62.71	-13	-49.71	-65.47	2.63	5.39	Horizontal	Pass			
2539.8	-61.38	-13	-48.38	-64.2	3.09	5.91	Horizontal	Pass			
3386.4	-59.36	-13	-46.36	-63.91	3.34	7.89	Horizontal	Pass			
1693.2	-63.91	-13	-50.91	-66.67	2.63	5.39	Vertical	Pass			
2539.8	-59.79	-13	-46.79	-62.61	3.09	5.91	Vertical	Pass			
3386.4	-59.28	-13	-46.28	-63.83	3.34	7.89	Vertical	Pass			



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	GSM1900-Low channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3704.8	-58.2	-13	-45.2	-63.06	3.58	8.44	Horizontal	Pass			
5557.2	-55.62	-13	-42.62	-61.33	4.74	10.45	Horizontal	Pass			
7409.6	-56.51	-13	-43.51	-63.2	4.94	11.63	Horizontal	Pass			
3704.8	-58.35	-13	-45.35	-63.21	3.58	8.44	Vertical	Pass			
5557.2	-55.32	-13	-42.32	-61.03	4.74	10.45	Vertical	Pass			
7409.6	-56.77	-13	-43.77	-63.46	4.94	11.63	Vertical	Pass			

	GSM1900-Middle channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3760.0	-58.84	-13	-45.84	-63.73	3.63	8.52	Horizontal	Pass			
5640.0	-55.91	-13	-42.91	-61.61	4.75	10.45	Horizontal	Pass			
7520.0	-58.44	-13	-45.44	-65.26	4.94	11.76	Horizontal	Pass			
3760.0	-58.42	-13	-45.42	-63.31	3.63	8.52	Vertical	Pass			
5640.0	-57.36	-13	-44.36	-63.06	4.75	10.45	Vertical	Pass			
7520.0	-55.45	-13	-42.45	-62.27	4.94	11.76	Vertical	Pass			

GSM1900-High channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3815.2	-58.6	-13	-45.6	-63.51	3.68	8.59	Horizontal	Pass		
5722.8	-54.36	-13	-41.36	-60.05	4.76	10.45	Horizontal	Pass		
7630.4	-56.39	-13	-43.39	-63.33	4.95	11.89	Horizontal	Pass		
3815.2	-57.59	-13	-44.59	-62.5	3.68	8.59	Vertical	Pass		
5722.8	-54.57	-13	-41.57	-60.26	4.76	10.45	Vertical	Pass		
7630.4	-55.53	-13	-42.53	-62.47	4.95	11.89	Vertical	Pass		

All modes have been tested and we found GPRS Test mode has the worst test result. Only record the worst test result.



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6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: $\leq \pm 2.5$ ppm.

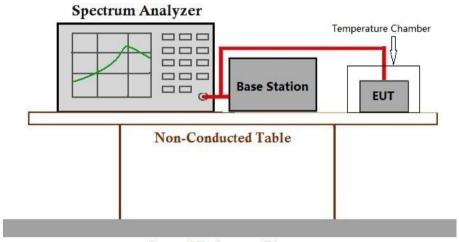
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1000 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



Ground Reference Plane

6.7.3 Measurement Data

Please refer to Appendix for GSM FE test data.



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2506002399AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for SZCR2506002399AT

-End of Report -



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