

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100043603

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TEST REPORT

Application No.: FYCR2211000436AT

Applicant: Hon Lin Technology Co., Ltd.

Address of Applicant: 11F, No.32, Jihu Rd., Neihu Dist., Taipei City, Taiwan

Manufacturer: Foxconn Industrial Internet Co.,Ltd

Address of Manufacturer: No.2,2nd Donghuan Road,10th Yousong Industrial District, Longhua,

Shenzhen City, Guangdong Provice, China

Factory: Nanning Fulian Fugui Precision Co.,Ltd

Address of Factory: No.51, Tongle Boulevard, Shajing, Jiangnan District, Nanning, P. R. CHINA

Equipment Under Test (EUT):

EUT Name: LTE GPS Tracker

Model No.: QTS110

Trade Mark: Qualcomm Aware FCC ID: 2AQ68-QTS110 Standard(s): 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E

2022-11-02

Date of Test: 2022-11-03 to 2022-11-24

Date of Issue: 2022-12-12

Test Result: Pass*

Date of Receipt:

Winkey Wang
Winkey Wang
EMC Technical Manager



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



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	Revision Record						
Version	Version Chapter Date Modifier						
01		2022-12-12		Original			

Authorized for issue by:			
	(ree Zhan		
	Tree Zhan/Project Engineer	-	
	WinkeyWarg		
	Winkey Wang/Reviewer	-	



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2 Test Summary

Test Item	FCC	Requirements	Verdict	
	Rule No.			
Effective (Igetropic) Padiated	§2.1046,	ERP≤7W(GSM850)		
Effective (Isotropic) Radiated Power Output Data	§22.913,	EIRP≤2W(PCS1900)	PASS	
•	§24.232			
Peak-Average Ratio	§24.232	≤13dB	PASS	
Modulation Characteristics	§2.1047	Digital modulation	PASS	
Bandwidth	\$2.4040/b)	OBW: No limit	DASS	
Bandwidin	§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.		
0	§2.1051,			
Spurious emissions at antenna terminals	§22.917,	≤ -13dBm	PASS	
tommale	§24.238			
F: 11	§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			

Remark: Final product will be equipped with normal SIM card or eSIM, which will not affect the EMC and RF performance according to declaration letter. For this project, normal SIM card was used to test.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.7V by li-ion battery
	Recharged input: DC5V/1.5A
Sample Type:	Mobile production
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/PCS1900
Modulation Type:	GMSK for GPRS/EGPRS 8PSK for EGPRS
GPRS Class:	12
EGPRS Class:	12
Antenna Type:	PIFA antenna
Antenna Gain:	GSM850:3.53dBi, 1900: 2.65dBi



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4.2 Test Frequency

	_ ' /				
Test mode:	TV	RF Channel			
rest mode.	TX	Low (L)	Middle (M)	High (H)	
00M050 TV		Channel 128	Channel 190	Channel 251	
GSM850	TX	824.2MHz	836.6 MHz	848.8 MHz	
Toot made.	de: TX	RF Channel			
Test mode:		Low (L)	Middle (M)	High (H)	
DCS1000	S1900 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			
	TL	-30°C		
Temperature:	TN	+20°C		
	TH	+50°C		
	VL	DC3.2 V		
Voltage:	VN	DC3.7 V		
	VH	DC4.2 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



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4.4 Description of Support Units

The EUT has been tested independent unit.

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)
/	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:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

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	2022/07/12	2023/07/11
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/07/12	2023/07/11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2022/07/12	2023/07/11
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	2022/07/12	2023/07/11
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2022/07/12	2023/07/11

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	2022/07/12	2023/07/11
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12	2023/07/11
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12	2023/07/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/07/12	2023/07/11
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022/08/07	2025/08/06
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2022/07/12	2023/07/11
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12	2023/07/11
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	2022/07/12	2023/07/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/07/12	2023/07/11
Pre-amplifier	Compliance Directions Systems	PAP-2640-50	SEM005-08	2022/07/12	2023/07/11



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	Inc.				
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/07/12	2023/07/11
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020/06/26	2023/06/25
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28

General used equipment											
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date						
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11						
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11						
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11						



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6 Radio Spectrum Matter Test Results

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

Limit: ERP≤7W(GSM850)

EIRP ≤ 2W(PCS1900)

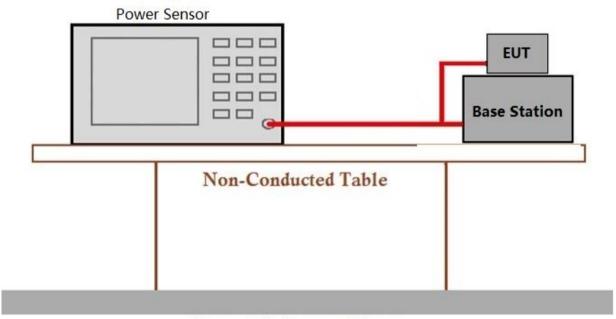
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 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

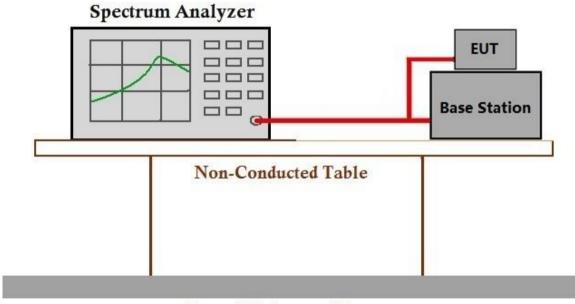
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 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

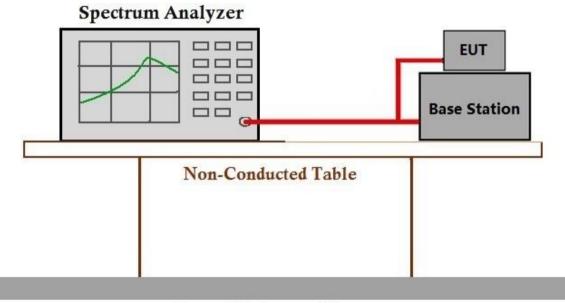
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 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

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

the frequency block.

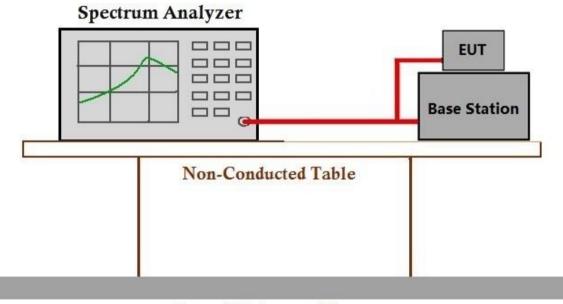
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 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

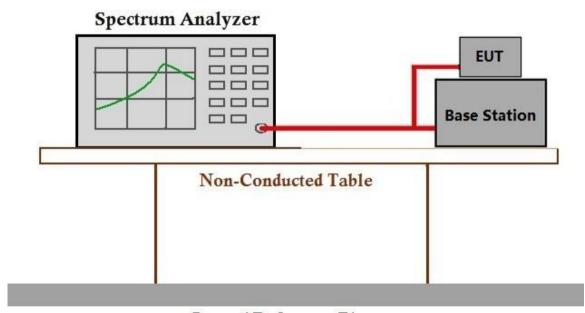
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 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

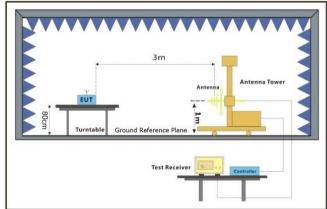
6.6.1 E.U.T. Operation

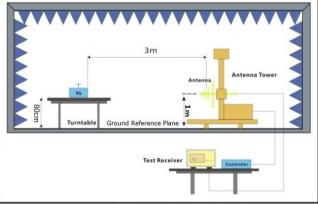
Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

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

6.6.2 Test Setup Diagram





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	-62.36	-13	-49.36	-66.02	3.77	7.43	Horizontal	Pass			
2472.6	-57.33	-13	-44.33	-59.66	4.75	7.08	Horizontal	Pass			
3296.8	-54.85	-13	-41.85	-57.43	5.72	8.3	Horizontal	Pass			
1648.4	-62.89	-13	-49.89	-66.55	3.77	7.43	Vertical	Pass			
2472.6	-57.65	-13	-44.65	-59.98	4.75	7.08	Vertical	Pass			
3296.8	-54.31	-13	-41.31	-56.89	5.72	8.3	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	-61.99	-13	-48.99	-65.65	3.77	7.43	Horizontal	Pass			
2509.2	-57.99	-13	-44.99	-60.46	5.13	7.6	Horizontal	Pass			
3345.6	-54.4	-13	-41.4	-56.98	5.72	8.3	Horizontal	Pass			
1672.8	-61.42	-13	-48.42	-65.08	3.77	7.43	Vertical	Pass			
2509.2	-58.26	-13	-45.26	-60.73	5.13	7.6	Vertical	Pass			
3345.6	-54.87	-13	-41.87	-57.45	5.72	8.3	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			
1697.6	-61.56	-13	-48.56	-65.22	3.77	7.43	Horizontal	Pass			
2546.4	-57.42	-13	-44.42	-59.89	5.13	7.6	Horizontal	Pass			
3395.2	-54.25	-13	-41.25	-56.83	5.72	8.3	Horizontal	Pass			
1697.6	-62.38	-13	-49.38	-66.04	3.77	7.43	Vertical	Pass			
2546.4	-58.02	-13	-45.02	-60.49	5.13	7.6	Vertical	Pass			
3395.2	-53.66	-13	-40.66	-56.24	5.72	8.3	Vertical	Pass			



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	PCS1900-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			
3700.4	-55.34	-13	-42.34	-57.56	6.99	9.21	Horizontal	Pass			
5550.6	-52.24	-13	-39.24	-54.56	8.27	10.59	Horizontal	Pass			
7400.8	-49.04	-13	-36.04	-52.58	8.19	11.73	Horizontal	Pass			
3700.4	-55.97	-13	-42.97	-58.19	6.99	9.21	Vertical	Pass			
5550.6	-52.44	-13	-39.44	-54.76	8.27	10.59	Vertical	Pass			
7400.8	-49.51	-13	-36.51	-53.05	8.19	11.73	Vertical	Pass			

	PCS1900-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	-55.3	-13	-42.3	-57.52	6.99	9.21	Horizontal	Pass			
5640	-51.9	-13	-38.9	-54.22	8.27	10.59	Horizontal	Pass			
7520	-48.83	-13	-35.83	-52.66	8.43	12.26	Horizontal	Pass			
3760	-55.42	-13	-42.42	-57.64	6.99	9.21	Vertical	Pass			
5640	-52.72	-13	-39.72	-55.04	8.27	10.59	Vertical	Pass			
7520	-48.33	-13	-35.33	-52.16	8.43	12.26	Vertical	Pass			

	PCS1900-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			
3819.6	-55.06	-13	-42.06	-57.28	6.99	9.21	Horizontal	Pass			
5729.4	-52.29	-13	-39.29	-54.61	8.27	10.59	Horizontal	Pass			
7639.2	-49.81	-13	-36.81	-53.64	8.43	12.26	Horizontal	Pass			
3819.6	-55	-13	-42	-57.22	6.99	9.21	Vertical	Pass			
5729.4	-52.74	-13	-39.74	-55.06	8.27	10.59	Vertical	Pass			
7639.2	-49.07	-13	-36.07	-52.9	8.43	12.26	Vertical	Pass			

Note:

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.

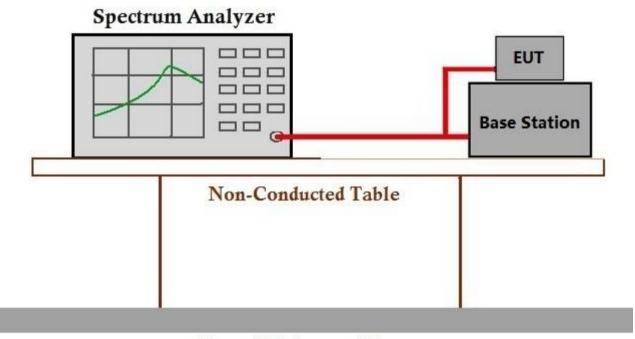
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 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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6.8 Modulation Characteristics

Test Requirement: §2.1047

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

Limit: Digital modulation

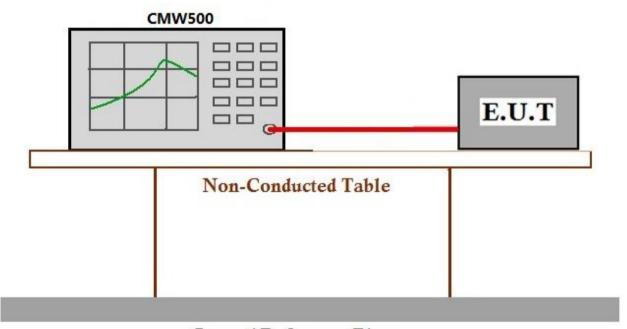
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

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

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Pass, it's digital modulation device.



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7 Test Setup Photo

Refer to Appendix – WWAN Test Setup Photo for FYCR2211000436AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2211000436AT

-End of Report -



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