

EMC-TRF-01 Rev 1.0

Report No.: GZCR210802080506

Page: 1 of 24 FCC ID: 2AFD7-PST3

TEST REPORT

Application No.: GZCR2108020805AT

Applicant: Poynt, LLC

Address of Applicant: 3032 Bunker Hill Lane Santa Clara California 95054 United States

Manufacturer: Beijing Wiseasy Technology CO., Ltd.

Address of Manufacturer: 7thFloor, Block B, Wangxin Mansion, No.28 Xiaoyun Road, Chaoyang

District, 100027, Beijing, China.

Factory: BYD Precision Manufacture Co., Ltd.

Address of factory: Baolong Industrial Park, 3001 Baohe Rd., Longgang District, Shenzhen,

P.R.C

Equipment Under Test (EUT):

EUT Name: Poynt Smart Terminal V3.0

Model No.: PST3
Trade mark: POYNT

Standard(s): 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C

Date of Receipt: 2021-08-04

Date of Test: 2021-08-04 to 2021-08-24

Date of Issue: 2021-08-31

Test Result: Pass*

Kobe Jian EMC Laboratory Manager



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or email: CN_Doccheck@sgs_com No.18/ke/mi (red.) Scientel/ Park_Jouanghou Exonomic& Technology Development District, Quangchou, China 510663 t (86–20) 82155555 f (86–20) 82075058 www.sgsgroup.com.cn 中国 - 广州 - 经济技术开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 f (86–20) 82075058 sgs.china@sgs.com

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



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Revision Record						
Version Chapter Date Modifier Remark						
	2021-08-31		Original			
	Chapter	Chapter Date	Chapter Date Modifier			

Authorized for issue by		
	Coly Knong	
	Lily Kuang/Project Engineer	
	Riday Liv	
	Ricky Liu/Reviewer	



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2 Test Summary

Took Itam	FCC	Domisino monto	Vordist
Test Item	Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913, §24.232 §27.50(d)	ERP≤7W(WCDMA band V) EIRP≤2W(WCDMA band II) EIRP≤1W(WCDMA Band IV)	PASS
Peak-Average Ratio	§22.913 §24.232 §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, §22.917, §24.238 §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, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Field strength of spurious radiation	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Frequency stability	§2.1055, §22.355, §24.235 §27.54	≤ ±2.5ppm.	PASS



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4 General Information

4.1 Details of E.U.T.

Power supply: Switching Adapter

Model: ASSA13W-050300

Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 3.0A, 15.0W

Battery

DESAY Model No.: 2532002 DC 3.7V, 5900mAh, 21.83Wh

DOCKING STATION Rating: DC 5V, 3A

Test Voltage: AC 120V, 60Hz or AC 240V, 50Hz

Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the

results of the worst test result(AC 120V, 60Hz);

Cable(s): DC cable:98cm unshielded

Sample Type: Portable production
Support Network: RMC, HSDPA, HSUPA

Operation Frequency

Band:

UMTS FDD Band II/V/IV

Modulation Type: QPSK for WCDMA

Supported Channel

Bandwidth:

5MHz for WCDMA

UMTS Power Class: Level 3
Antenna Type: FPC
Antenna Gain: -1dBi



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4.2 Test Frequency

412 Tool Troquency						
Test Mode	TX/RX	RF Channel				
rest ivioue	IA/KA	Low(L)	Middle (M)	High (H)		
	TV	Channel 4132	Channel 4183	Channel 4233		
WCDMA Band	TX	826.4 MHz	836.6 MHz	846.6 MHz		
V	RX	Channel 4357	Channel 4407	Channel 4458		
	Kλ	871.4 MHz	881.4 MHz	891.6 MHz		
Toot Made	TV/DV		RF Channel			
Test Mode	TX/RX	Low(L)	Middle (M)	High (H)		
	тх	Channel	Channel	Channel		
WCDMA Band		1712.4 MHz	1732.6 MHz	1752.6 MHz		
IV	RX —	Channel 9662	Channel 9800	Channel 9938		
		2112.4	2132.6MHz	2152.6MHz		
Toot Mode	TV/DV	RF Channel				
Test Mode	TX/RX	Low(L)	Middle (M)	High (H)		
	TX	Channel 9262	Channel 9400	Channel 9538		
WCDMA Band	1.	1852.4 MHz	1880.0 MHz	1907.6 MHz		
II	DV	Channel 9662	Channel 9800	Channel 9938		
	RX	1932.4 MHz	1960.0 MHz	1987.6 MHz		

4.3 Test Environment

Environment Parameter	Selected Values During Tests			
Relative Humidity		52%		
Atmospheric Pressure:		1015Pa		
	TL	-30°C		
Temperature:	TN	+20°C		
	TH	+50°C		
	VL	3.14 V		
Voltage:	VN	3.7 V		
	VH	4.25 V		

NOTE: 1. 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 2. According to ANSI C63.26 requirements, the limit test temperature should be between -30°C and 50 °C.



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4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.				
		-	-				
The EUT has been tested as an independent unit.							

4.5 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	7.25 x 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	DE Dadioted novem	5.14dB (below 1GHz)
/	RF Radiated power	5.08dB (above 1GHz)
0	Dedicted Courieus emission test	5.14dB (below 1GHz)
8	Radiated Spurious emission test	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., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.7 Test Facility

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• 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 test system					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2020-09-20	2021-09-19

RE in Chamber(below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08	
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22	
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18	
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021/5/26	2022/5/25	
Substitution Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22	
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2021-01-11	2022-01-10	



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RE in Chamber(above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2020-09-09	2021-09-08
Substitution Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2021-01-11	2022-01-10

General used equipmen	General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date						
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05						
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05						



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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, \$27.50(d)
Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ERP≤7W(WCDMA BAND V)

EIRP≤2W(WCDMA BAND II) EIRP≤1W(WCDMA Band IV)

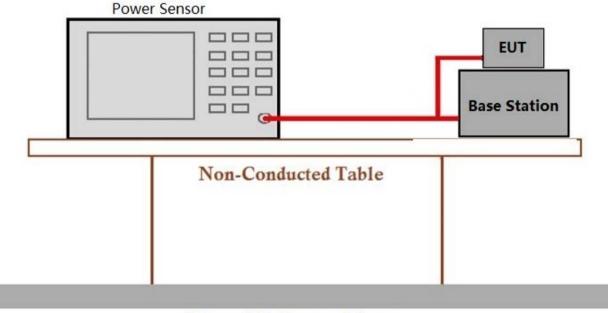
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 45: 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_FCC_WCDMA_3G.



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6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

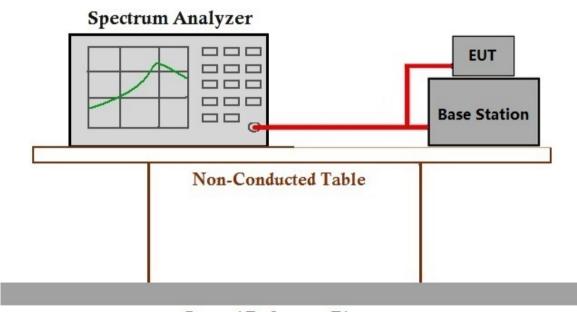
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 45: 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_FCC_WCDMA_3G.



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6.3 Bandwidth

Test Requirement: §2.1049(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: OBW: No limit

EBW: No limit

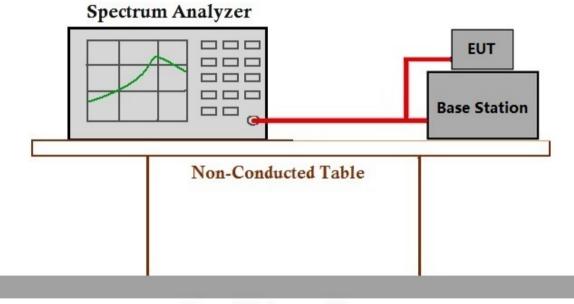
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 45: 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_FCC_WCDMA_3G.



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6.4 Band Edge Compliance

Test Requirement: \$2.1051, \$22.917, \$24.238, \$27.53(h)
Test Method: ANSI C63.26, KDB 971168 D01 v03

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

the frequency block.

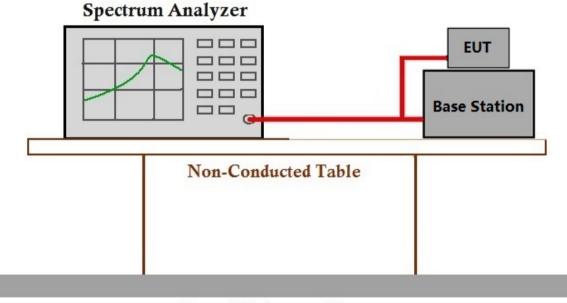
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 45: 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_FCC_WCDMA_3G.



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6.5 Spurious emissions at antenna terminals

Test Requirement: \$2.1051, \$22.917, \$24.238, \$27.53(h)
Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm

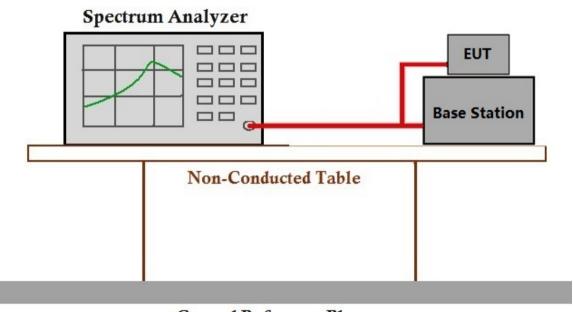
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 45: 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 FCC WCDMA 3G.



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6.6 Field strength of spurious radiation

Test Requirement: \$2.1051, \$22.917, \$24.238, \$27.53(h)
Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm

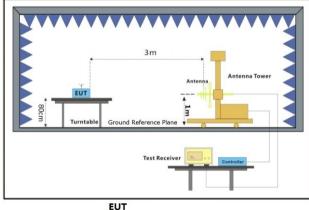
6.6.1 E.U.T. Operation

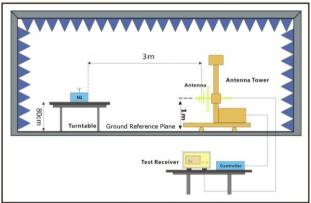
Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 45: TX mode_Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram





Substitue 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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	WCDMA Band II-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	-49.35	-13	-36.35	-59.03	2.92	12.6	Horizontal	Pass				
5557.2	-45.92	-13	-32.92	-55.87	3.15	13.1	Horizontal	Pass				
7409.6	-43.81	-13	-30.81	-52.11	3.4	11.7	Horizontal	Pass				
3704.8	-48.07	-13	-35.07	-57.75	2.92	12.6	Vertical	Pass				
5557.2	-45.14	-13	-32.14	-55.09	3.15	13.1	Vertical	Pass				
7409.6	-43.38	-13	-30.38	-51.68	3.4	11.7	Vertical	Pass				

			WCDMA Ban	d II-Middle	e 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	-49.24	-13	-36.24	-58.92	2.92	12.6	Horizontal	Pass
5640	-46.59	-13	-33.59	-56.54	3.15	13.1	Horizontal	Pass
7520	-42.86	-13	-29.86	-50.41	3.85	11.4	Horizontal	Pass
3760	-49.66	-13	-36.66	-59.34	2.92	12.6	Vertical	Pass
5640	-46.82	-13	-33.82	-56.77	3.15	13.1	Vertical	Pass
7520	-44.38	-13	-31.38	-51.93	3.85	11.4	Vertical	Pass

			WCDMA B	and II-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	-48.81	-13	-35.81	-58.49	2.92	12.6	Horizontal	Pass
5722.8	-46.15	-13	-33.15	-56.1	3.15	13.1	Horizontal	Pass
7630.4	-44.27	-13	-31.27	-51.82	3.85	11.4	Horizontal	Pass
3815.2	-48.04	-13	-35.04	-57.72	2.92	12.6	Vertical	Pass
5722.8	-47.24	-13	-34.24	-57.19	3.15	13.1	Vertical	Pass
7630.4	-43.69	-13	-30.69	-51.24	3.85	11.4	Vertical	Pass



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	WCDMA BAND IV-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				
3424.8	-45.57	-13	-32.57	-54.08	2.99	11.5	Horizontal	Pass				
5137.2	-45.14	-13	-32.14	-54.84	3	12.7	Horizontal	Pass				
6849.6	-44.48	-13	-31.48	-53.9	3.08	12.5	Horizontal	Pass				
3424.8	-44.94	-13	-31.94	-53.45	2.99	11.5	Vertical	Pass				
5137.2	-45.22	-13	-32.22	-54.92	3	12.7	Vertical	Pass				
6849.6	-44.03	-13	-31.03	-53.45	3.08	12.5	Vertical	Pass				

	WCDMA BAND IV-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				
3465.2	-44.24	-13	-31.24	-52.75	2.99	11.5	Horizontal	Pass				
5197.8	-45.03	-13	-32.03	-54.73	3	12.7	Horizontal	Pass				
6930.4	-43.35	-13	-30.35	-52.77	3.08	12.5	Horizontal	Pass				
3465.2	-47.98	-13	-34.98	-56.49	2.99	11.5	Vertical	Pass				
5197.8	-45.37	-13	-32.37	-55.07	3	12.7	Vertical	Pass				
6930.4	-43.5	-13	-30.5	-52.92	3.08	12.5	Vertical	Pass				

	WCDMA BAND IV-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				
3505.2	-48.44	-13	-35.44	-58.12	2.92	12.6	Horizontal	Pass				
5257.8	-45.74	-13	-32.74	-55.44	3	12.7	Horizontal	Pass				
7010.4	-44.09	-13	-31.09	-52.39	3.4	11.7	Horizontal	Pass				
3505.2	-49.89	-13	-36.89	-59.57	2.92	12.6	Vertical	Pass				
5257.8	-45.03	-13	-32.03	-54.73	3	12.7	Vertical	Pass				
7010.4	-43.59	-13	-30.59	-51.89	3.4	11.7	Vertical	Pass				



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	WCDMA BAND V-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				
1652.8	-53.97	-13	-40.97	-59.14	3.33	8.5	Horizontal	Pass				
2479.2	-47.15	-13	-34.15	-54.15	3.4	10.4	Horizontal	Pass				
3305.6	-47.83	-13	-34.83	-56.34	2.99	11.5	Horizontal	Pass				
1652.8	-53.67	-13	-40.67	-58.84	3.33	8.5	Vertical	Pass				
2479.2	-49.3	-13	-36.3	-56.3	3.4	10.4	Vertical	Pass				
3305.6	-48.98	-13	-35.98	-57.49	2.99	11.5	Vertical	Pass				

	WCDMA BAND V-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	-52.48	-13	-39.48	-57.65	3.33	8.5	Horizontal	Pass				
2509.2	-48.22	-13	-35.22	-55.61	3.21	10.6	Horizontal	Pass				
3345.6	-47.82	-13	-34.82	-56.33	2.99	11.5	Horizontal	Pass				
1672.8	-53.88	-13	-40.88	-59.05	3.33	8.5	Vertical	Pass				
2509.2	-47.84	-13	-34.84	-55.23	3.21	10.6	Vertical	Pass				
3345.6	-47.61	-13	-34.61	-56.12	2.99	11.5	Vertical	Pass				

			WCDMA BAI	ND V-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	-54.76	-13	-41.76	-59.93	3.33	8.5	Horizontal	Pass
2539.8	-49.45	-13	-36.45	-56.84	3.21	10.6	Horizontal	Pass
3386.4	-47.22	-13	-34.22	-55.73	2.99	11.5	Horizontal	Pass
1693.2	-53.6	-13	-40.6	-58.77	3.33	8.5	Vertical	Pass
2539.8	-48.27	-13	-35.27	-55.66	3.21	10.6	Vertical	Pass
3386.4	-48.55	-13	-35.55	-57.06	2.99	11.5	Vertical	Pass

Note:

For WCDMA, all modes have been tested and we found RMC 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: \$2.1055, \$22.355, \$24.235, \$27.54
Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: $\leq \pm 2.5$ ppm.

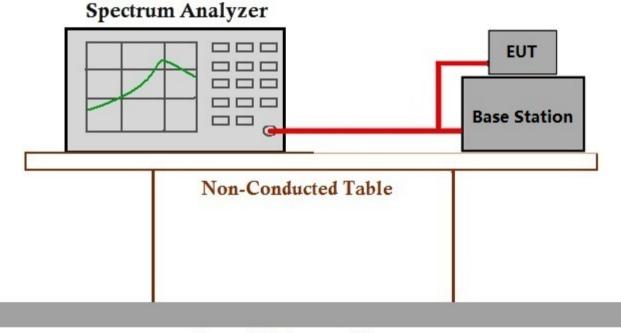
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 45: 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_FCC_WCDMA_3G.



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6.8 Modulation Characteristics

Test Requirement: §2.1047

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Digital modulation

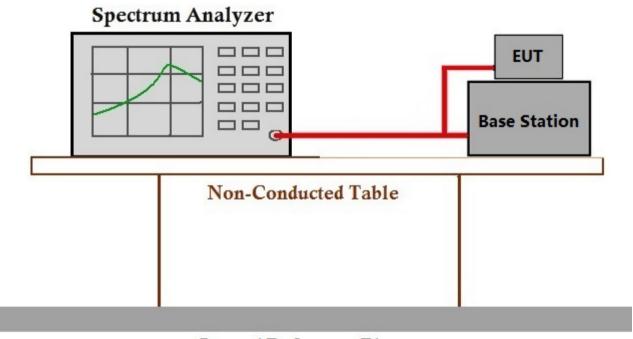
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 50.0 % RH Atmospheric Pressure: 1010 mbar 20.5 °C Humidity:

Test mode: 45: TX mode_Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Please refer to Appendix FCC WCDMA 3G.



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7 Test Setup Photo

Refer to appendix - setup photos for GZCR2108020805AT

8 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for GZCR2108020805AT

- End of the Report -



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