



FCC RF Test Report

APPLICANT : SHADOWTRACK TECHNOLOGIES, INC.
EQUIPMENT : GPS Watch
BRAND NAME : Compass XR
MODEL NAME : XR-22
FCC ID : 2ARH7-COMPASS-XR-22
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter worn on body(PCT)
TEST DATE(S) : Mar. 21, 2022 ~ Mar. 29, 2022

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This product installed a RF module (Brand Name: Fibocom, Model Name: NL668-AM-00, FCC ID: ZMONL668AM00) during the test, only Conducted Power/ERP/EIRP and RSE test items are tested in this report, all the other test results are leveraged from module RF report. The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International Inc. (ShenZhen)

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
-	§24.232(d)	Peak-to-Average Ratio	< 13 dB	-	1
-	§2.1049	Occupied Bandwidth	Reporting Only	-	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	-	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	-	1
-	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	-	1
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 29.31 dB at 1652.800 MHz

Remark 1:

All test results were leveraged from module RF report which can refer to Report No. FG091101A & FG801914A.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

SHADOWTRACK TECHNOLOGIES, INC.

One Lakeway, 3900 North Causeway Boulevard, Suite 1200, Metairie, LA 72000, United States

1.2 Manufacturer

SHADOWTRACK TECHNOLOGIES, INC.

One Lakeway, 3900 North Causeway Boulevard, Suite 1200, Metairie, LA 72000, United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	GPS Watch
Brand Name	Compass XR
Model Name	XR-22
FCC ID	2ARH7-COMPASS-XR-22
IMEI	Conducted: N/A Radiation: 868862040710117
HW Version	S10_V9.6.2
SW Version	4GYL

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz
Rx Frequency	WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz
Maximum Output Power to Antenna	WCDMA: Band V: 21.70 dBm Band II: 22.56 dBm Band IV: 22.48 dBm
Antenna Type	PCB Antenna
Antenna Gain	Cellular Band: -2.50 dBi PCS Band: -1.20 dBi AWS Band: -1.10 dBi
Type of Modulation	WCDMA : BPSK HSDPA/DC-HSDPA : QPSK HSUPA : QPSK HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum ERP/EIRP (W)
Part 22H	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0507
Part 24E	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.1368
Part 27L	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.1374



1.7 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24



1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

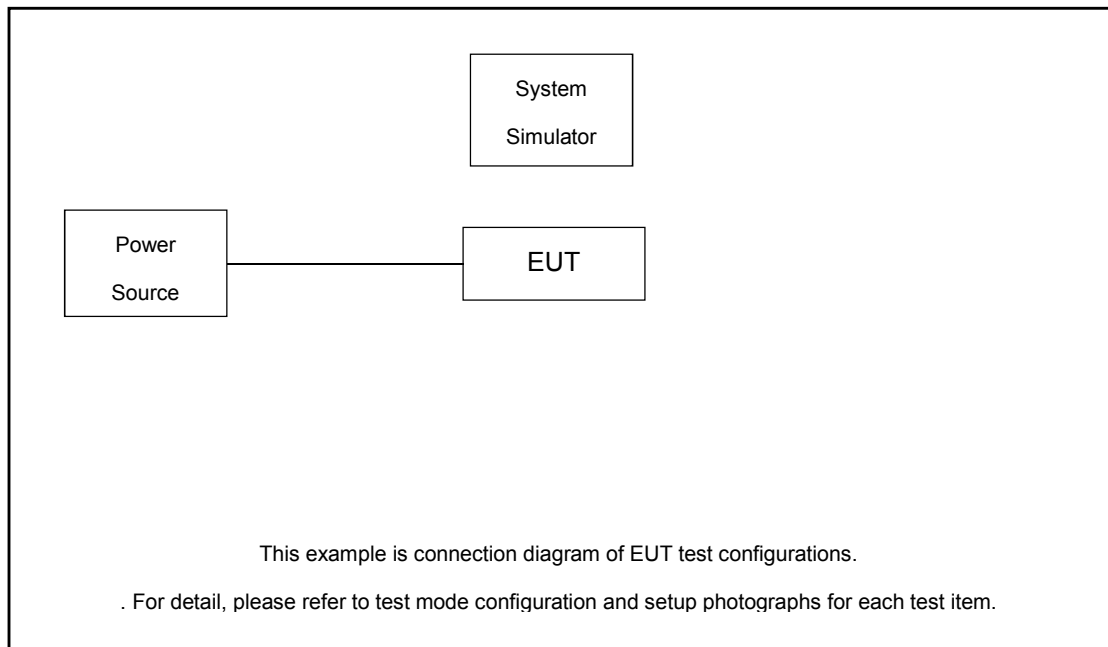
1. 30 MHz to 9000 MHz for WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Shielded, 1.5m

2.4 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

3 Conducted Test Result

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

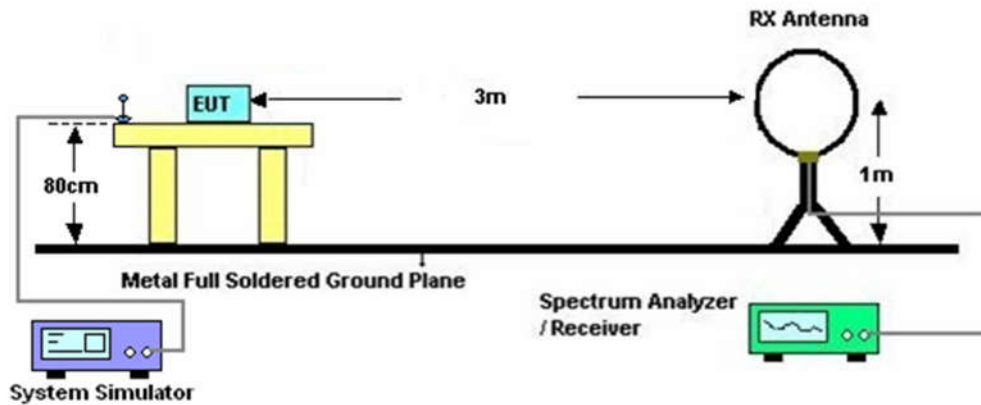
4 Radiated Test Items

4.1 Measuring Instruments

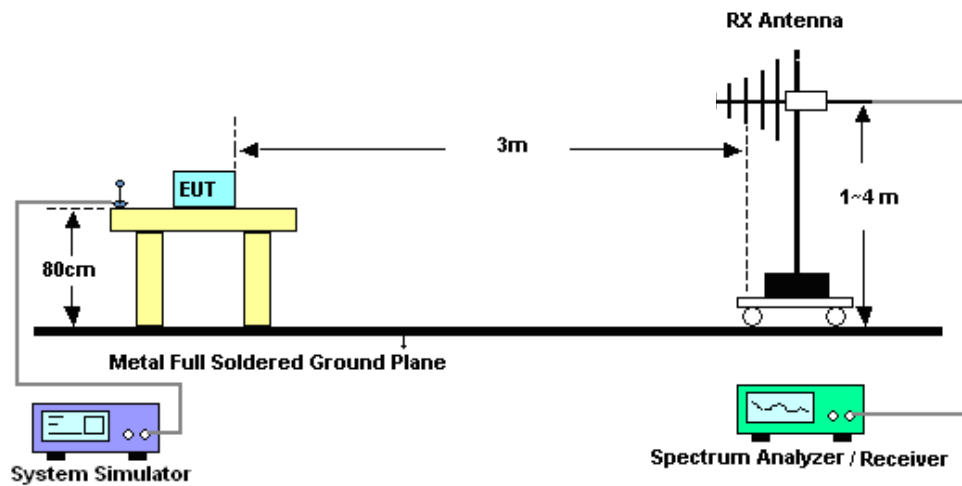
See list of measuring instruments of this test report.

4.2 Test Setup

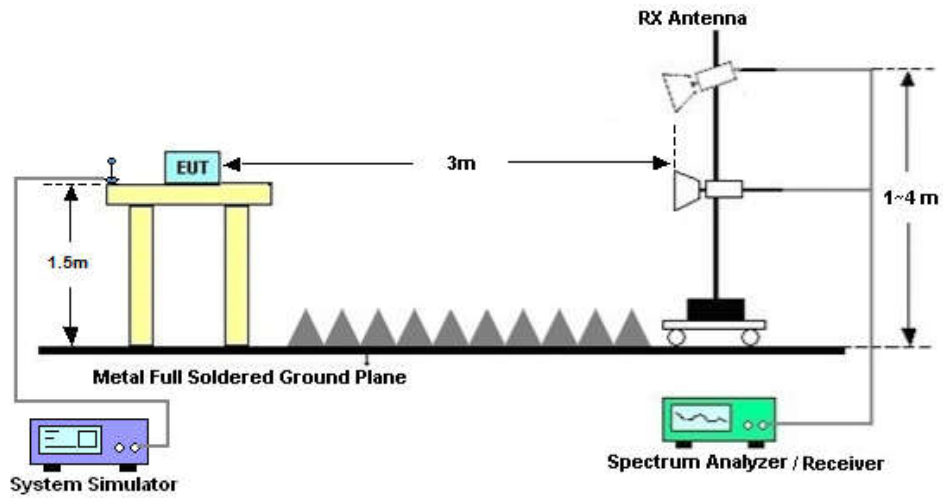
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Mar. 22, 2022~ Mar. 29, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Mar. 22, 2022~ Mar. 29, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 20, 2021	Mar. 21, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Mar. 21, 2022	Jun. 21, 2022	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22, 2021	Mar. 21, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 15, 2021	Mar. 21, 2022	Jul. 14, 2022	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 25, 2021	Mar. 21, 2022	Jul. 24, 2022	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Mar. 21, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Mar. 21, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 20, 2021	Mar. 21, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 22, 2021	Mar. 21, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Mar. 21, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 21, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 21, 2022	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required.



6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Sam Zheng	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power)

Band		WCDMA II		
TX Channel		9262	9400	9538
Rx Channel		9662	9800	9938
Frequency (MHz)		1852.4	1880	1907.6
3GPP Rel 99	AMR 12.2Kbps	22.34	22.30	22.13
3GPP Rel 99	RMC 12.2Kbps	22.56	22.47	22.21
3GPP Rel 6	HSDPA Subtest-1	21.28	21.28	21.05
3GPP Rel 6	HSDPA Subtest-2	21.41	21.40	21.00
3GPP Rel 6	HSDPA Subtest-3	20.94	20.93	20.59
3GPP Rel 6	HSDPA Subtest-4	20.97	20.94	20.60
3GPP Rel 8	DC-HSDPA Subtest-1	21.30	21.33	21.07
3GPP Rel 8	DC-HSDPA Subtest-2	21.46	21.42	21.02
3GPP Rel 8	DC-HSDPA Subtest-3	20.96	20.98	20.64
3GPP Rel 8	DC-HSDPA Subtest-4	21.02	20.96	20.65
3GPP Rel 6	HSUPA Subtest-1	20.63	20.67	20.76
3GPP Rel 6	HSUPA Subtest-2	19.91	19.84	19.95
3GPP Rel 6	HSUPA Subtest-3	20.30	20.11	19.97
3GPP Rel 6	HSUPA Subtest-4	19.98	19.85	19.83
3GPP Rel 6	HSUPA Subtest-5	21.30	21.20	21.20



Band		WCDMA IV		
TX Channel		1312	1413	1513
Rx Channel		1537	1638	1738
Frequency (MHz)		1712.4	1732.6	1752.6
3GPP Rel 99	AMR 12.2Kbps	22.02	22.10	22.21
3GPP Rel 99	RMC 12.2Kbps	22.22	22.31	22.48
3GPP Rel 6	HSDPA Subtest-1	21.36	21.33	21.12
3GPP Rel 6	HSDPA Subtest-2	21.52	21.47	21.26
3GPP Rel 6	HSDPA Subtest-3	20.95	20.98	20.77
3GPP Rel 6	HSDPA Subtest-4	21.01	20.98	20.77
3GPP Rel 8	DC-HSDPA Subtest-1	21.40	21.35	21.10
3GPP Rel 8	DC-HSDPA Subtest-2	21.49	21.41	21.22
3GPP Rel 8	DC-HSDPA Subtest-3	20.96	20.90	20.75
3GPP Rel 8	DC-HSDPA Subtest-4	21.03	20.95	20.70
3GPP Rel 6	HSUPA Subtest-1	20.51	20.55	20.60
3GPP Rel 6	HSUPA Subtest-2	19.88	19.79	19.69
3GPP Rel 6	HSUPA Subtest-3	20.14	19.99	19.94
3GPP Rel 6	HSUPA Subtest-4	19.91	19.85	19.99
3GPP Rel 6	HSUPA Subtest-5	21.18	21.00	21.13



Band		WCDMA V		
TX Channel		4132	4182	4233
Rx Channel		4357	4407	4458
Frequency (MHz)		826.4	836.4	846.6
3GPP Rel 99	AMR 12.2Kbps	21.61	21.68	21.65
3GPP Rel 99	RMC 12.2Kbps	21.57	21.53	21.70
3GPP Rel 6	HSDPA Subtest-1	20.58	20.60	20.52
3GPP Rel 6	HSDPA Subtest-2	20.69	20.55	20.62
3GPP Rel 6	HSDPA Subtest-3	20.22	20.18	20.12
3GPP Rel 6	HSDPA Subtest-4	20.17	20.20	20.11
3GPP Rel 8	DC-HSDPA Subtest-1	20.60	20.55	20.50
3GPP Rel 8	DC-HSDPA Subtest-2	20.62	20.58	20.67
3GPP Rel 8	DC-HSDPA Subtest-3	20.16	20.20	20.16
3GPP Rel 8	DC-HSDPA Subtest-4	20.13	20.17	20.15
3GPP Rel 6	HSUPA Subtest-1	19.76	19.72	19.93
3GPP Rel 6	HSUPA Subtest-2	18.89	18.98	18.86
3GPP Rel 6	HSUPA Subtest-3	19.39	19.19	19.13
3GPP Rel 6	HSUPA Subtest-4	18.93	18.99	18.95
3GPP Rel 6	HSUPA Subtest-5	20.37	20.20	20.41



ERP/EIRP

WCDMA Band V ($G_T - L_C = -2.5$ dB)			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency (MHz)	826.4	836.4	846.6
Conducted Power (dBm)	21.57	21.53	21.70
Conducted Power (Watts)	0.1435	0.1422	0.1479
ERP(dBm)	16.92	16.88	17.05
ERP(Watts)	0.0492	0.0488	0.0507

WCDMA Band II ($G_T - L_C = -1.20$ dB)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency (MHz)	1852.4	1880	1907.6
Conducted Power (dBm)	22.56	22.47	22.21
Conducted Power (Watts)	0.1803	0.1766	0.1663
EIRP(dBm)	21.36	21.27	21.01
EIRP(Watts)	0.1368	0.1340	0.1262

WCDMA Band IV ($G_T - L_C = -1.10$ dB)			
Channel	1312	1413	1513
	(Low)	(Mid)	(High)
Frequency (MHz)	1712.4	1732.6	1752.6
Conducted Power (dBm)	22.22	22.31	22.48
Conducted Power (Watts)	0.1667	0.1702	0.1770
EIRP(dBm)	21.12	21.21	21.38
EIRP(Watts)	0.1294	0.1321	0.1374



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Kuang Jia /Wen Bo Xiao	Temperature :	22~25°C
		Relative Humidity :	48~52%

WCDMA Band V (RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652.8	-62.93	-13	-49.93	-70.20	-66.16	3.98	9.36	H
	2479.2	-53.13	-13	-40.13	-64.75	-56.68	4.85	10.55	H
	3305.6	-62.35	-13	-49.35	-77.21	-67.28	5.50	12.58	H
	1652.8	-42.31	-13	-29.31	-49.65	-45.54	3.98	9.36	V
	2479.2	-59.13	-13	-46.13	-70.80	-62.68	4.85	10.55	V
	3305.6	-62.29	-13	-49.29	-77.08	-67.22	5.50	12.58	V
Middle	1672.8	-67.38	-13	-54.38	-74.20	-70.63	4.00	9.40	H
	2509.2	-63.86	-13	-50.86	-75.55	-67.43	4.88	10.60	H
	3345.6	-62.39	-13	-49.39	-77.27	-67.32	5.52	12.60	H
	1672.8	-47.25	-13	-34.25	-54.26	-50.50	4.00	9.40	V
	2509.2	-63.60	-13	-50.60	-75.41	-67.17	4.88	10.60	V
	3345.6	-62.47	-13	-49.47	-77.37	-67.40	5.52	12.60	V
Highest	1693.2	-63.20	-13	-50.20	-70.22	-66.37	4.10	9.42	H
	2539.8	-54.47	-13	-41.47	-66.41	-58.05	4.90	10.63	H
	3386.4	-62.59	-13	-49.59	-77.55	-67.51	5.55	12.62	H
	1693.2	-45.61	-13	-32.61	-52.81	-48.78	4.10	9.42	V
	2539.8	-58.75	-13	-45.75	-70.72	-62.33	4.90	10.63	V
	3386.4	-62.62	-13	-49.62	-77.59	-67.54	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band II (RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704.8	-59.97	-13	-46.97	-76.51	-66.73	5.82	12.58	H
	5557.2	-54.96	-13	-41.96	-74.29	-60.68	7.28	13.00	H
	7409.6	-53.65	-13	-40.65	-77.55	-56.81	8.32	11.48	H
	3704.8	-60.49	-13	-47.49	-76.76	-67.25	5.82	12.58	V
	5557.2	-57.47	-13	-44.47	-76.65	-63.19	7.28	13.00	V
	7409.6	-53.50	-13	-40.50	-77.72	-56.66	8.32	11.48	V
Middle	3760	-61.06	-13	-48.06	-77.75	-67.81	5.85	12.60	H
	5640	-57.03	-13	-44.03	-77.20	-62.83	7.30	13.10	H
	7520	-55.23	-13	-42.23	-78.92	-58.38	8.35	11.50	H
	3760	-61.66	-13	-48.66	-77.91	-68.41	5.85	12.60	V
	5640	-60.30	-13	-47.30	-79.26	-66.10	7.30	13.10	V
	7520	-54.99	-13	-41.99	-79.1	-58.14	8.35	11.50	V
Highest	3782.18	-58.43	-13	-45.43	-75.19	-65.17	5.88	12.62	H
	5673.27	-48.46	-13	-35.46	-68.88	-54.27	7.32	13.13	H
	7564.36	-51.42	-13	-38.42	-75.03	-54.58	8.38	11.54	H
	3782.18	-59.42	-13	-46.42	-75.67	-66.16	5.88	12.62	V
	5673.27	-52.22	-13	-39.22	-71.57	-58.03	7.32	13.13	V
	7564.36	-51.10	-13	-38.10	-75.18	-54.26	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band IV (RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3424.8	-61.82	-13	-48.82	-76.87	-68.70	5.60	12.48	H
	5137.2	-56.45	-13	-43.45	-76.11	-62.13	7.10	12.78	H
	6849.6	-58.08	-13	-45.08	-80.19	-61.47	8.38	11.77	H
	3424.8	-62.26	-13	-49.26	-77.33	-69.14	5.60	12.48	V
	5137.2	-56.69	-13	-43.69	-76.09	-62.37	7.10	12.78	V
	6849.6	-56.46	-13	-43.46	-78.99	-59.85	8.38	11.77	V
Middle	3465.2	-53.97	-13	-40.97	-69.21	-60.82	5.65	12.50	H
	5197.8	-51.51	-13	-38.51	-71.12	-57.18	7.13	12.80	H
	6930.4	-56.69	-13	-43.69	-78.84	-60.09	8.40	11.80	H
	3465.2	-60.64	-13	-47.64	-75.91	-67.49	5.65	12.50	V
	5197.8	-53.86	-13	-40.86	-73.09	-59.53	7.13	12.80	V
	6930.4	-56.62	-13	-43.62	-79.06	-60.02	8.40	11.80	V
Highest	3505.2	-56.37	-13	-43.37	-71.80	-63.21	5.68	12.52	H
	5257.8	-56.42	-13	-43.42	-75.63	-62.09	7.15	12.82	H
	7010.4	-56.72	-13	-43.72	-79.07	-60.15	8.42	11.85	H
	3505.2	-59.79	-13	-46.79	-75.27	-66.63	5.68	12.52	V
	5257.8	-57.24	-13	-44.24	-76.01	-62.91	7.15	12.82	V
	7010.4	-56.08	-13	-43.08	-78.64	-59.51	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.