



FCC RF Test Report

APPLICANT : Million Tech Development Ltd.
EQUIPMENT : 3G Back Pack
BRAND NAME : LOGICODE
MODEL NAME : MT-IT9K-UD3GGPS
MARKETING NAME : 3G Back Pack
FCC ID : 2AGTPMT-IT9KUD3GGPS
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Dec. 08, 2015 and testing was completed on Jan. 15, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG5D0802	Rev. 01	Initial issue of report	Apr. 22, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	Note
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	
3.6	§2.1049 §22.917(b) §24.238(b)	Occupied Bandwidth	Reporting Only	PASS	
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	
	§2.1055 §24.235		Within Authorized Band		
4.4	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 22.09 dB at 1672.000 MHz

Note: please refer to module report. Report No. : 126S034R-HP-US-P07V01 (FCC ID: N7NSL9090)

1 General Description

1.1 Applicant

Million Tech Development Ltd.

Room509, 5/F Tower 2, Cheung Sha Wan Plaza, 833 Cheung Sha Wan Road, Cheung Sha Wan, Kowloon, H.K

1.2 Manufacturer

Shen Zhen Guang Feng Yuan Electronics co., Ltd.

3/F Block A, No. 45, Li Xin Lu, Dan Zhu Tou Community, Nan Wan Street, Longgang District, Shenzhen, Guangdong Province, China . Postal code: 518114

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	3G Back Pack
Brand Name	LOGICODE
Model Name	MT-IT9K-UD3GGPS
FCC ID	2AGTPMT-IT9KUD3GGPS
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/
IMEI Code	N/A
EUT Stage	Production Unit

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	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz CDMA2000: BC0: 824.70 MHz ~ 848.31 MHz BC1: 1851.25 MHz ~ 1908.75 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz CDMA2000: BC0: 869.70 MHz ~ 893.31 MHz BC1: 1931.25 MHz ~ 1988.75 MHz
Antenna Type	Embedded 2G/3G Flex Monopole Antenna
Type of Modulation	GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GPRS class 8	GMSK	0.1647	-	-
Part 22H	GSM850 EDGE class 8	8PSK	0.0395	-	-
Part 22H	WCDMA Band V RMC 12.2Kbps	QPSK	0.0151	-	-
Part 22H	CDMA2000 BC0 1xRTT	QPSK	0.0201	-	-
Part 24E	GSM1900 GPRS class 8	GMSK	0.0261	-	-
Part 24E	GSM1900 EDGE class 8	8PSK	0.0106	-	-
Part 24E	WCDMA Band II RMC 12.2Kbps	QPSK	0.0093	-	-
Part 24E	CDMA2000 BC1 1xRTT	QPSK	0.0153	-	-

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH03-KS	306251

Note: The test site complies with ANSI C63.4 2009 requirement.

1.8 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)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

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 v02r02 with maximum output power.

Radiated emissions were investigated as following frequency range:

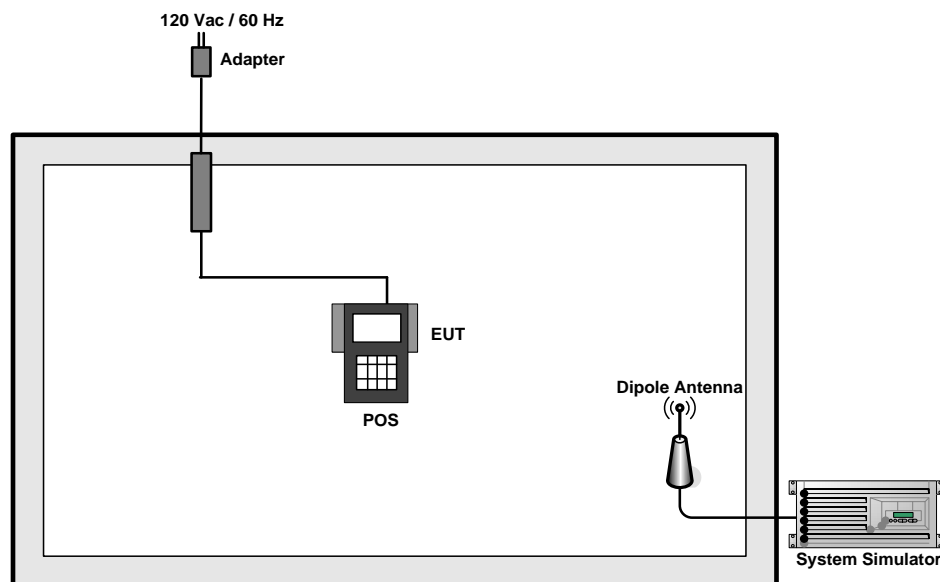
1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V and CDMA BC0.
2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II and CDMA BC1.

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
GSM 850	■ GPRS class 8 Link ■ EDGE class 8 Link	■ GPRS class 8 Link ■ EDGE class 8 Link
GSM 1900	■ GPRS class 8 Link ■ EDGE class 8 Link	■ GPRS class 8 Link ■ EDGE class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
CDMA BC0	■ 1xRTT Link	■ 1xRTT Link
CDMA BC1	■ 1xRTT Link	■ 1xRTT Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Adapter	FP	SAW24-12.0-2000	N/A	N/A	Unshielded, 1.8 m
3.	POS	CASIO	IT9000E-MC25E	BBQIT9000	N/A	N/A



3 Conducted Test Result

Note: please refer to module report. Report No. : 126S034R-HP-US-P07V01 (FCC ID: N7NSL9090)

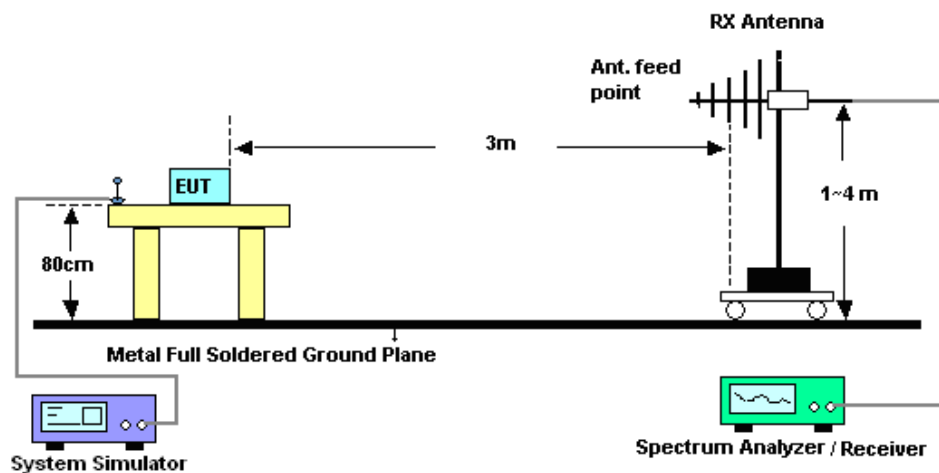
4 Radiated Test Items

4.1 Measuring Instruments

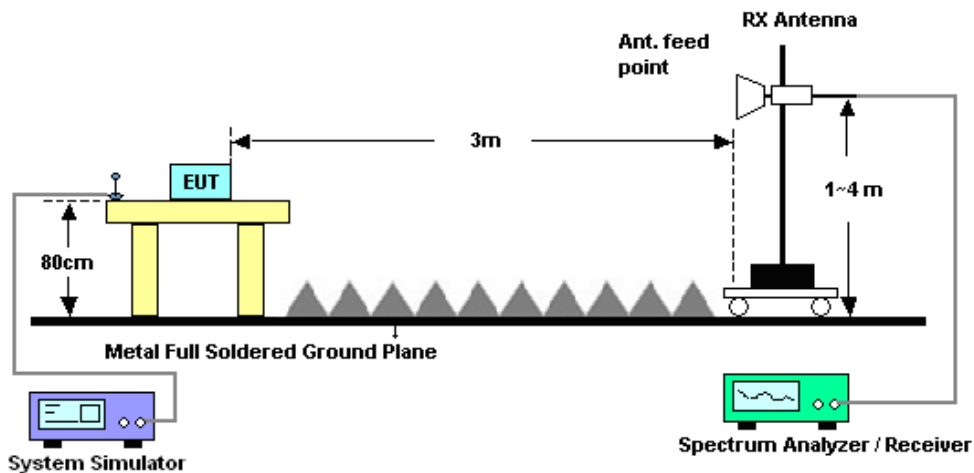
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix A.

4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

4.4.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-D-2010, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-D-2010 Section 2.2.17.
2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$. Take the record of the output power at substitution antenna.



	GSM/GPRS/EDGE	CDMA2000/EV-DO	WCDMA/HSPA
SPAN	500kHz	3MHz	10MHz
RBW	10kHz	30kHz	100kHz
VBW	30kHz	100kHz	300kHz
Detector	RMS	RMS	RMS
Trace	Average	Average	Average
Average Type	Power	Power	Power
Sweep Count	100	100	100

4.5 Field Strength of Spurious Radiation Measurement

4.5.1 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.

4.5.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters 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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Jun. 05, 2015	Jan. 15, 2016	Jun. 04, 2016	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz-2GHz	Mar. 12, 2015	Jan. 15, 2016	Mar. 11, 2016	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Jun. 25, 2015	Jan. 15, 2016	Jun. 24, 2016	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz ~40GHz	Mar. 03, 2015	Jan. 15, 2016	Mar. 02, 2016	Radiation (03CH03-KS)
Amplifier	Burgeon	BPA-530	102212	0.01MHz-3000MHz	Aug. 10, 2015	Jan. 15, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 24, 2015	Jan. 15, 2016	Oct. 23, 2016	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 15, 2016	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 15, 2016	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 15, 2016	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
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Appendix A. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GPRS class 8	22.17	0.1647	12.81	0.0191
Middle		20.71	0.1177	10.86	0.0122
Highest		19.35	0.0862	8.96	0.0079
Lowest	GSM850 EDGE class 8	15.97	0.0395	6.37	0.0043
Middle		14.74	0.0298	4.47	0.0028
Highest		13.25	0.0211	2.26	0.0017
Lowest	WCDMA Band V RMC 12.2Kbps	11.79	0.0151	3.18	0.0021
Middle		11.73	0.0149	2.32	0.0017
Highest		11.28	0.0134	1.06	0.0013
Lowest	CDMA BC0 1xRTT	13.04	0.0201	2.89	0.0019
Middle		12.62	0.0183	1.80	0.0015
Highest		11.00	0.0126	-0.33	0.0009
Limit	ERP < 7W	Result		PASS	



Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GPRS class 8	13.06	0.0202	13.33	0.0215
Middle		12.08	0.0161	11.55	0.0143
Highest		14.16	0.0261	12.31	0.0170
Lowest	GSM1900 EDGE class 8	9.32	0.0086	9.58	0.0091
Middle		8.95	0.0079	8.24	0.0067
Highest		10.24	0.0106	8.26	0.0067
Lowest	WCDMA Band II RMC 12.2Kbps	9.32	0.0085	9.51	0.0089
Middle		8.80	0.0076	8.12	0.0065
Highest		9.69	0.0093	8.21	0.0066
Lowest	CDMA BC1 1xRTT	11.73	0.0149	11.84	0.0153
Middle		11.11	0.0129	10.55	0.0114
Highest		8.56	0.0072	7.82	0.0060
Limit	EIRP < 2W	Result		PASS	

**Radiated Spurious Emission****GSM850 (GPRS class 8)**

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)
Middle	1672	-35.09	-13	-22.09	-46.84	-41.77	0.57	9.40	H
	2510	-43.10	-13	-30.10	-58.59	-50.81	0.74	10.60	H
	3346	-45.33	-13	-32.33	-62.02	-54.93	0.85	12.60	H
	1672	-39.32	-13	-26.32	-50.01	-46.00	0.57	9.40	V
	2510	-55.08	-13	-42.08	-66.58	-62.79	0.74	10.60	V
	3346	-42.50	-13	-29.50	-60.07	-52.10	0.85	12.60	V

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

GSM850 (EDGE class 8)

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)
Middle	1672	-40.27	-13	-27.27	-51.57	-46.95	0.57	9.40	H
	2510	-53.87	-13	-40.87	-66.15	-61.58	0.74	10.60	H
	3346	-52.23	-13	-39.23	-67.83	-61.83	0.85	12.60	H
	1672	-45.95	-13	-32.95	-55.86	-52.63	0.57	9.40	V
	2510	-59.17	-13	-46.17	-70.67	-66.88	0.74	10.60	V
	3346	-52.67	-13	-39.67	-67.28	-62.27	0.85	12.60	V

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



GSM1900 (GPRS class 8)									
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)
Middle	3760	-46.01	-13	-33.01	-66.34	-57.74	0.87	12.60	H
	5640	-48.62	-13	-35.62	-71.49	-60.65	1.07	13.10	H
	7520	-50.86	-13	-37.86	-75.99	-60.47	1.69	11.30	H
	3760	-47.40	-13	-34.40	-68.96	-59.13	0.87	12.6	V
	5640	-50.92	-13	-37.92	-73.67	-62.95	1.07	13.1	V
	7520	-51.18	-13	-38.18	-76.09	-60.61	1.87	11.3	V

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

GSM1900 (EDGE class 8)									
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)
Middle	3760	-50.25	-13	-37.25	-70.58	-61.98	0.87	12.60	H
	5640	-50.43	-13	-37.43	-73.30	-62.46	1.07	13.10	H
	7520	-50.11	-13	-37.11	-75.24	-59.72	1.69	11.30	H
	3760	-52.05	-13	-39.05	-73.61	-63.78	0.87	12.6	V
	5640	-51.02	-13	-38.02	-73.77	-63.05	1.07	13.1	V
	7520	-51.27	-13	-38.27	-76.18	-60.70	1.87	11.3	V

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



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)
Middle	1672	-56.97	-13	-43.97	-64.54	-63.65	0.57	9.40	H
	2510	-58.18	-13	-45.18	-70.46	-65.89	0.74	10.60	H
	3346	-55.27	-13	-42.27	-70.87	-64.87	0.85	12.60	H
	1672	-60.74	-13	-47.74	-67.57	-67.42	0.57	9.40	V
	2510	-59.39	-13	-46.39	-70.89	-67.10	0.74	10.60	V
	3346	-57.08	-13	-44.08	-71.69	-66.68	0.85	12.60	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)
Middle	3760	-44.12	-13	-31.12	-64.45	-55.85	0.87	12.60	H
	5640	-50.23	-13	-37.23	-73.10	-62.26	1.07	13.10	H
	7520	-50.02	-13	-37.02	-75.15	-59.63	1.69	11.30	H
	3760	-46.67	-13	-33.67	-68.23	-58.40	0.87	12.6	V
	5640	-50.50	-13	-37.50	-73.25	-62.53	1.07	13.1	V
	7520	-52.69	-13	-39.69	-77.6	-62.12	1.87	11.3	V

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



CDMA BC0(1xRTT)									
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)
Middle	1673.04	-59.02	-13	-46.02	-66.59	-65.70	0.57	9.40	H
	2509.56	-56.82	-13	-43.82	-69.10	-64.53	0.74	10.60	H
	3346.08	-54.68	-13	-41.68	-70.28	-64.28	0.85	12.60	H
	1673.04	-57.27	-13	-44.27	-64.10	-63.95	0.57	9.40	V
	2509.56	-57.25	-13	-44.25	-68.75	-64.96	0.74	10.60	V
	3346.08	-54.00	-13	-41.00	-68.61	-63.60	0.85	12.60	V

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

CDMA BC1(1xRTT)									
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)
Middle	3760	-37.44	-13	-24.44	-59.40	-49.17	0.87	12.60	H
	5640	-47.57	-13	-34.57	-70.44	-59.60	1.07	13.10	H
	7520	-49.13	-13	-36.13	-74.26	-58.74	1.69	11.30	H
	3760	-43.50	-13	-30.50	-65.06	-55.23	0.87	12.6	V
	5640	-49.03	-13	-36.03	-71.78	-61.06	1.07	13.1	V
	7520	-51.02	-13	-38.02	-75.93	-60.45	1.87	11.3	V

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