

Report No.: FG9D1046-01A



FCC RADIO TEST REPORT

FCC ID : QYLWP7610BC03 Equipment : WWAN Module

Brand Name : Getac **Model Name** : WP7610

Applicant : Getac Technology Corporation.

> 5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568,

Taiwan, R.O.C.

Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on May 29, 2020 and testing was started from Jul. 03, 2020 and completed on Jul. 17, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Win

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

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Report No.	Version	Description	Issued Date
FG9D1046-01A	01	Initial issue of report	Jul. 30, 2020

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
	§2.1046	Conducted Output Power	
	§22.913 (a)(2)	Effective Radiated Power (WCDMA Band V)	_
3.2	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)	Pass
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)	
-	§24.232 (d)	Peak-to-Average Ratio	Not Required
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Not Required
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Not Required
-	\$2.1051 \$22.917 (a) Conducted Emission \$24.238 (a) (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV) \$27.53 (g)		Not Required
-	\$2.105 (g) \$2.1055 \$22.355 \$24.235 \$27.54 Frequency Stability Temperature & Voltage		Not Required
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass

Note:

- 1. Not required means after assessing, test items are not necessary to carry out.
- This is a variant report by changing eSIM to nano-SIM for host. All the test cases were performed on original report which can be referred to Sporton Report Number FG9D1046A. Based on the original report, the test cases were verified.

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.

Reviewed by: Wii Chang Report Producer: Yimin Ho

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1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA and LTE

Product Specification subjective to this standard				
	Equipment Name: Body Worn Camera			
Integrated into Host	Brand Name: Getac			
	Model Name: BC-03			
Antenna Type PIFA Antenna				

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1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory			
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site No.	Sporton Site No.			
Test Site No.	TH05-HY			
Test Engineer	Bryant Liu			
Temperature	23~25°C			
Relative Humidity	51~54%			

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory			
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855			
Test Site No.	Sporton Site No.		
rest site No.	03CH15-HY		
Test Engineer	Leo Lee, Mancy Chou and Bigshow Wang		
Temperature	21.3~23.4°C		
Relative Humidity	55~61%		

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007

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1.4 Applicable Standards

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

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- + ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site 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.
- 3. The TAF code is not including all the FCC KDB listed without accreditation.

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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.

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For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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

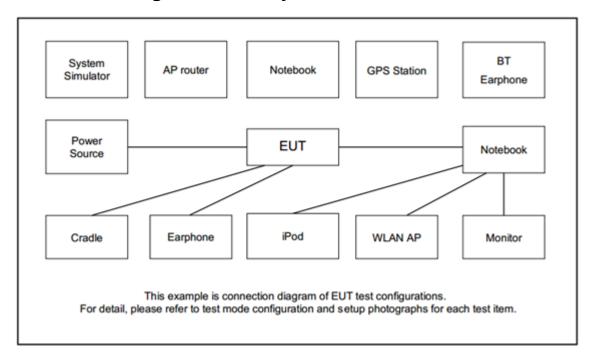
All modes and data rates and positions were investigated.

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

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

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2.2 Connection Diagram of Test System



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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

2.4 Frequency List of Low/Middle/High Channels

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

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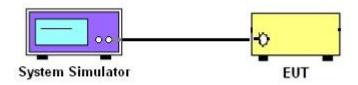
3 Conducted Test Result

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power and ERP/EIRP

3.2.1 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.

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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

3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

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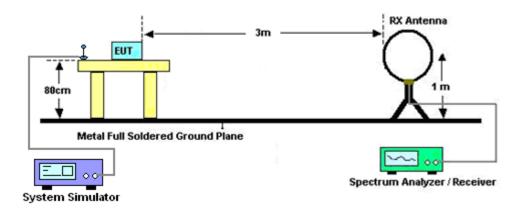
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

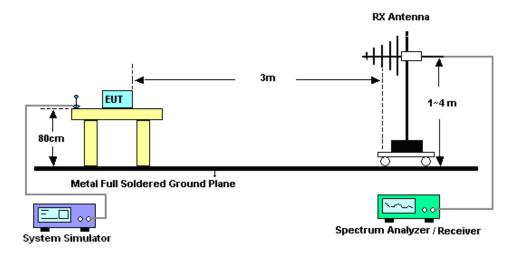
4.2 Test Setup

For radiated emissions below 30MHz



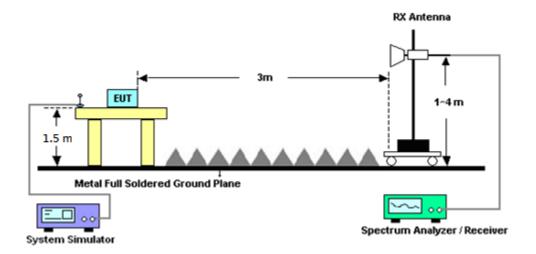
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For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



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4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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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.

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4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 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.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. 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.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Anritsu	MT8821C	6262002534 1	N/A	Oct. 24, 2019	Jul. 17, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Jul. 03, 2020~ Jul. 12, 2020	Jan. 08, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00 800N1D01N-0 6	41912&05	30MHz to 1GHz	Feb. 09, 2020	Jul. 03, 2020~ Jul. 12, 2020	Feb. 08, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-2114	1-18GHz	Jul. 31, 2019	Jul. 03, 2020~ Jul. 12, 2020	Jul. 30, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Dec. 10, 2019	Jul. 03, 2020~ Jul. 12, 2020	Dec. 09, 2020	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2019	Jul. 03, 2020~ Jul. 12, 2020	Dec. 26, 2020	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	1710001800 055007	1GHz~18GHz	Mar. 31, 2020	Jul. 03, 2020~ Jul. 12, 2020	Mar. 30, 2021	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 23, 2019	Jul. 03, 2020~ Jul. 12, 2020	Aug. 22, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Jul. 03, 2020~ Jul. 12, 2020	Dec. 12, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 01, 2019	Jul. 03, 2020~ Jul. 12, 2020	Oct. 31, 2020	Radiation (03CH15-HY
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Feb. 25, 2020	Jul. 03, 2020~ Jul. 12, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 03, 2020~ Jul. 12, 2020	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 03, 2020~ Jul. 12, 2020	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k 5)	RK-000451	N/A	N/A	Jul. 03, 2020~ Jul. 12, 2020	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 14, 2020	Jul. 03, 2020~ Jul. 12, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4PE	30M-18G	Apr. 14, 2020	Jul. 03, 2020~ Jul. 12, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY802430/4	30M~18GHz	Apr. 14, 2020	Jul. 03, 2020~ Jul. 12, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 25, 2020	Jul. 03, 2020~ Jul. 12, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 25, 2020	Jul. 03, 2020~ Jul. 12, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN4	1.53G Low Pass	Jul. 03, 2020	Jul. 03, 2020~ Jul. 12, 2020	Jul. 02, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN4	3GHz High Pass Filter	Sep. 17, 2019	Jul. 03, 2020~ Jul. 12, 2020	Sep. 16, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0ST	SN5	1.2GHz High Pass Filter	Jul. 01, 2020	Jul. 03, 2020~ Jul. 12, 2020	Jun. 30, 2021	Radiation (03CH15-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.06
Confidence of 95% (U = 2Uc(y))	3.00

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.63
Confidence of 95% (U = 2Uc(y))	

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	4.16
Confidence of 95% (U = 2Uc(y))	4.10

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)									
Band	٧	CDMA Band	V	WCDMA Band II					
Channel	4132	4182	4233	9262	9400	9538			
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6			
RMC 12.2K	21.91	21.97	21.81	22.53	22.68	22.79			
HSDPA Subtest-1	21.79	21.39	21.74	22.22	22.44	22.48			
HSDPA Subtest-2	21.29	20.92	21.33	21.75	21.90	21.93			
HSDPA Subtest-3	21.83	21.40	21.71	22.37	22.49	22.27			
HSDPA Subtest-4	21.77	21.96	21.78	22.27	22.38	22.36			
HSUPA Subtest-1	21.78	21.31	21.32	22.40	22.07	22.22			
HSUPA Subtest-2	20.85	20.66	20.57	20.38	20.57	20.19			
HSUPA Subtest-3	20.97	20.90	20.83	21.26	21.46	21.16			
HSUPA Subtest-4	20.21	20.23	20.17	20.40	20.51	20.60			
HSUPA Subtest-5	21.95	21.86	21.91	22.69	22.72	22.51			

Conducted Power (*Unit: dBm)								
Band		WCDMA Band IV						
Channel	1312	1413	1513					
Frequency	1712.4	1732.6	1752.6					
RMC 12.2K	22.58	22.57	22.27					
HSDPA Subtest-1	21.98	21.67	21.80					
HSDPA Subtest-2	21.58	21.92	22.03					
HSDPA Subtest-3	22.04	21.82	21.85					
HSDPA Subtest-4	21.79	22.34	21.97					
HSUPA Subtest-1	21.75	22.43	21.59					
HSUPA Subtest-2	20.09	20.22	20.12					
HSUPA Subtest-3	20.87	21.05	20.86					
HSUPA Subtest-4	20.08	20.49	20.18					
HSUPA Subtest-5	22.04	22.24	22.06					

Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

Channel	Mode	Cond	ucted	ERP		
Chamilei	Wiode	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)	
Lowest	WCDMA Band V	21.91	0.1552	18.03	0.0635	
Middle	RMC 12.2Kbps	21.97	0.1574	18.09	0.0644	
Highest	GT - LC = -1.73 dB	21.81	0.1517	17.93	0.0621	
Limit	ERP < 7W	Re	sult	PA	SS	

Channel	Mode	Cond	ucted	EIRP		
Chamilei	Wiode	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)	
Lowest	WCDMA Band II	22.53	0.1791	22.80	0.1905	
Middle	RMC 12.2Kbps	22.68	0.1854	22.95	0.1972	
Highest	(GT - LC = 0.27 dB)	22.79	0.1901	23.06	0.2023	
Limit	EIRP < 2W	Re	sult	PA	SS	

Channel	Mode	Cond	ucted	EIRP		
Chamilei	Wiode	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)	
Lowest	WCDMA Band IV	22.58	0.1811	24.80	0.3020	
Middle	RMC 12.2Kbps	22.57	0.1807	24.79	0.3013	
Highest	(GT - LC = 2.22 dB)	22.27	0.1687	24.49	0.2812	
Limit	EIRP < 1W	Re	sult	PA	SS	

Radiated Spurious Emission

WCDMA 850

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				WCD	MA 850				
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)
	1672	-53.72	-13	-40.72	-64.58	-59.65	0.71	8.79	Н
	2512	-44.54	-13	-31.54	-60.19	-52.25	0.95	10.81	Н
	3344	-48.73	-13	-35.73	-66.48	-57.32	1.21	11.96	Н
									Н
									Н
									Н
Middle									Н
Middle	1672	-51.55	-13	-38.55	-62.32	-57.48	0.71	8.79	V
	2512	-45.23	-13	-32.23	-60.93	-52.94	0.95	10.81	V
	3345	-49.05	-13	-36.05	-66.5	-57.65	1.21	11.96	V
									V
									V
									V
									V

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

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WCDMA 1700

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				WCDI	ИА 1700				
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)
	3427	-47.61	-13	-34.61	-66.35	-58.52	1.23	12.14	Н
	5137	-44.24	-13	-31.24	-67.88	-55.14	1.97	12.86	Н
	6849	-41.26	-13	-28.26	-66.25	-50.23	2.34	11.32	Н
									Н
									Н
									Н
Lawast									Н
Lowest	3427	-48.07	-13	-35.07	-66.38	-58.98	1.23	12.14	V
	5137	-44.66	-13	-31.66	-68.04	-55.56	1.97	12.86	V
	6849	-41.86	-13	-28.86	-66.74	-50.83	2.34	11.32	V
									V
									V
									V
									V

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

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FAX: 886-3-328-4978

WCDMA 1900

Report No.: FG9D1046-01A

	WCDMA 1900									
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)	
	3812	-44.69	-13	-31.69	-65.16	-55.72	1.52	12.55	Н	
	5722	-42.06	-13	-29.06	-65.84	-53.32	1.99	13.26	Н	
	7630	-39.70	-13	-26.70	-66.75	-48.71	2.26	11.27	Н	
									Н	
									Н	
									Н	
Llighoot									Н	
Highest	3812	-45.03	-13	-32.03	-65.32	-56.06	1.52	12.55	V	
	5722	-41.82	-13	-28.82	-65.86	-53.08	1.99	13.26	V	
	7630	-39.55	-13	-26.55	-66.82	-48.56	2.26	11.27	V	
									V	
									V	
									V	
		·	-						V	

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

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