# **Partial FCC RF Test Report**

APPLICANT : Castles Technology Co., Ltd.

**EQUIPMENT**: **EFTPOS** 

BRAND NAME : CASTLES TECHNOLOGY

MODEL NAME : VEGA5000S

FCC ID : WIYVEGA5000S STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on May 21, 2014 and testing was completed on Aug. 11, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

## SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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**Report No.: FG452106** 

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG452106	Rev. 01	Initial issue of report	Sep. 09, 2014

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# **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
	§2.1046	RSS-132 (5.4) RSS-133 (6.4)	Conducted Output Power	N/A	PASS	-
3.1	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.2	§2.1053 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Field Strength of Spurious Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 6.30 dB at 1672.000 MHz

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# 1 General Description

# 1.1 Applicant

Castles Technology Co., Ltd.

2F, No. 205, Sec. 3, Beixin Rd., Xindian District, New Taipei City 23143, Taiwan (R.O.C.)

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#### 1.2 Manufacturer

Castles Technology Co., Ltd.

2F, No. 205, Sec. 3, Beixin Rd., Xindian District, New Taipei City 23143, Taiwan (R.O.C.)

# 1.3 Product Feature of Equipment Under Test

Product Feature					
Equipment	EFTPOS				
Brand Name	CASTLES TECHNOLOGY				
Model Name	VEGA5000S				
FCC ID	WIYVEGA5000S				
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/NFC				
EUT Stage	Identical Prototype				

**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 subjective to this standard

Product Specification subjective to this standard				
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz			
Tix Frequency	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz			
Dy Fraguency	WCDMA Band V: 871.4 MHz ~ 891.6 MHz			
Rx Frequency	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz			
Maximum Output Dawar to Antonna	WCDMA Band V : 22.96 dBm			
Maximum Output Power to Antenna	WCDMA Band II: 21.98 dBm			
Antenna Type	Fixed Internal Antenna			
Antenna Gain	Cellular Band: -1.52 dBi			
	PCS Band: -2.82 dBi			
	WCDMA: QPSK (Uplink)			
Type of Modulation	HSDPA: 16QAM (Downlink)			
	HSUPA: QPSK (Uplink)			

## 1.5 Modification of EUT

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

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

FCC Rule System		Type of Modulation	Maximum ERP/EIRP (W)
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.09
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.08

## 1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.			
	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,			
Test Site Location	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.			
rest site Location	TEL: +886-3-327-3456			
	FAX: +886-3-328-4978			
Took Site No	Sporton	Site No.		
Test Site No.	TH02-HY	03CH07-HY		

# 1.8 Applicable Standards

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

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01
- FCC KDB 412172 D01 Determining ERP and ERIP v01

#### Remark:

- 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.

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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 v02r01 with maximum output power.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 9000 MHz for WCDMA Band V.
- 2. 30 MHz to 19000 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				

#### **Conducted Power Measurement Results:**

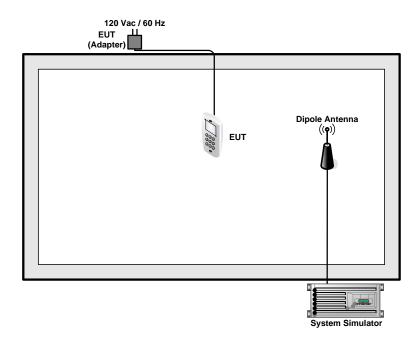
Conducted Power (*Unit: dBm)							
Band	W	CDMA Band	V	WCDMA Band II			
Channel	4132	4182	4233	9262	9400	9538	
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6	
RMC 12.2K	<mark>22.96</mark>	22.89	22.40	21.52	21.83	<mark>21.98</mark>	
HSDPA Subtest-1	21.82	21.56	21.21	20.17	20.46	20.70	
HSDPA Subtest-2	21.79	21.52	21.20	20.15	20.39	20.67	
HSDPA Subtest-3	21.77	21.50	21.16	20.14	20.27	20.66	
HSDPA Subtest-4	21.74	21.48	21.13	20.11	20.25	20.63	
HSUPA Subtest-1	22.13	21.83	21.39	20.49	20.56	21.01	
HSUPA Subtest-2	20.17	19.77	19.53	18.65	18.79	19.29	
HSUPA Subtest-3	20.68	20.31	20.19	19.27	19.32	19.78	
HSUPA Subtest-4	20.22	19.84	19.66	18.76	18.88	19.40	
HSUPA Subtest-5	22.21	21.93	21.53	20.58	20.62	21.05	

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## 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	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

# 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

#### Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.2 + 10 = 14.2 (dB)

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### 3 Test Result

## 3.1 Conducted Output Power and ERP/EIRP Measurement

#### 3.1.1 Description of the Conducted Output Power Measurement

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 Band 850.

The EIRP of mobile transmitters must not exceed 2 Watts for Band 1900.

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<sub>T</sub> = gain of the transmitting antenna in dBi

L<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna in dB

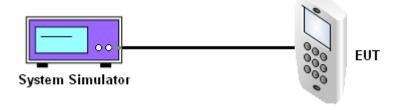
#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 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.
- Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

#### 3.1.4 Test Setup



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## 3.1.5 Test Result of Conducted Output Power

Cellular Band (G <sub>T</sub> - L <sub>C</sub> = -1.52 dB)							
Modes	WCDMA Band V (RMC 12.2Kbps)						
Channel	4132 (Low)	4182 (Mid)	4233 (High)				
Frequency (MHz)	826.4	836.4	846.6				
Conducted Power P <sub>T</sub> (dBm)	22.96	22.89	22.4				
Conducted Power P <sub>T</sub> (Watts)	0.20	0.19	0.17				
ERP(dBm)	19.29	19.22	18.73				
ERP(Watts)	0.09	0.08	0.08				

PCS Band (G <sub>T</sub> - L <sub>C</sub> = -2.82 dB)							
Modes WCDMA Band II (RMC 12.2Kbps)							
Channel	9262 (Low)	9400 (Mid)	9538 (High)				
Frequency (MHz)	1852.4	1880	1907.6				
Conducted Power P <sub>T</sub> (dBm)	21.52	21.83	21.98				
Conducted Power P <sub>T</sub> (Watts)	0.14	0.15	0.16				
EIRP(dBm)	18.7	19.01	19.16				
EIRP(Watts)	0.07	0.08	0.08				

Note: maximum burst average power for GSM, and maximum average power for WCDMA.

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

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

 $L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

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## 3.2 Field Strength of Spurious Radiation Measurement

#### 3.2.1 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.

#### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 5.8 and ANSI / TIA-603-C-2004 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 (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (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 + 10log(P) dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.

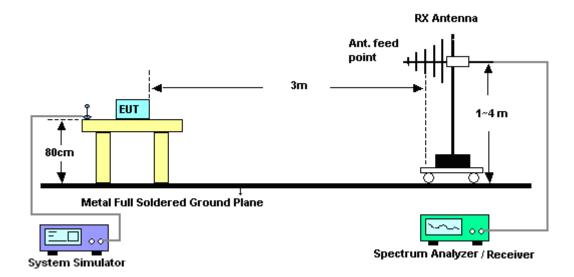
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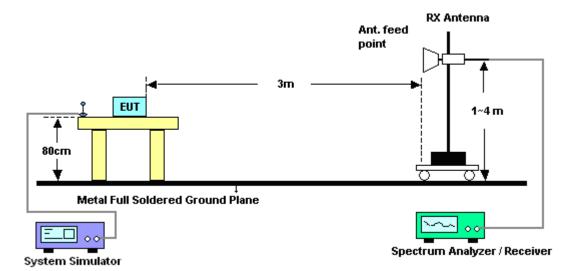
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#### 3.2.4 Test Setup

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz



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## 3.2.5 Test Result of Field Strength of Spurious Radiated

Band :		WCDMA B	and V			Temperature :		23~24°C			
Test Mode	:	RMC 12.2k	(bps Link	(QPSK)		Relative Humidity: 44			44~46%		
Test Engine	eer :	Stan Hsieh				Polarization	:	Horizontal			
Remark :		Spurious emissions within 30-1000MHz were found more than 20dB below limit line							line.		
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBı	m) (dBm)	( dB )	(dBm)	(dBm)	( dB )	(dE	Bi)	(H/V)		
1672	-23.	79 -13	-10.79	-30.39	-25.51	1.62	5.4	.9	Н	Pass	
2504	-30.	28 -13	-17.28	-41.37	-32.25	2.1	6.2	2	Н	Pass	
3352	-37.	99 -13	-24.99	-49.9	-40.88	3.03	8.0	7	Н	Pass	
4192	-42.	05 -13	-29.05	-56.17	-46.59	2.52	9.2	:1	Н	Pass	
5024	-47.	31 -13	-34.31	-63.15	-52.76	3.1	10.	70	Н	Pass	
5856	-46.	09 -13	-33.09	-65.51	-51.33	2.92	10.3	31	Н	Pass	

<b>5</b> .		VODIA D	137			<b>-</b> .		00 0	100	
Band :	V	VCDMA Ba	ina v			Temperature : 23~24°C				
Test Mode	: R	RMC 12.2K	bps Link	(QPSK)		Relative Humidity: 44~46%			6%	
Test Engine	eer : S	stan Hsieh				Polarization : Vertical			al	
Remark:	S	Spurious en	nissions	within 30-1	000MHz	were found m	ore than	1 20dE	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Anto	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm	) (dBm)	(dB)	(dBm)	(dBm)	( dB )	(dB	i)	(H/V)	
1672	-19.30	-13	-6.30	-28.27	-21.02	1.62	5.49	9	V	Pass
2512	-33.08	3 -13	-20.08	-44.67	-35.05	2.1	6.2	2	V	Pass
3352	-41.66	5 -13	-28.66	-55.07	-44.55	3.03	8.0	7	V	Pass
4184	-46.85	5 -13	-33.85	-61.61	-51.39	2.52	9.2	1	V	Pass

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Band :	V	VCDMA Ba	ınd II			Temperature : 23		23~2	23~24°C		
Test Mode	: R	MC 12.2K	bps Link	(QPSK)		Relative Humidity: 4			44~46%		
Test Engine	eer : S	tan Hsieh				Polarization :		Horiz	orizontal		
Remark :	S	purious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	in			
(MHz)	(dBm	) (dBm)	(dB)	(dBm)	(dBm)	( dB )	(dB	i)	(H/V)		
3763	-47.72	2 -13	-34.72	-60.99	-54.02	2.51	8.8	1	Н	Pass	
5639	-49.85	5 -13	-36.85	-68.47	-57.56	2.99	10.7	70	Н	Pass	
7522	-43.05	5 -13	-30.05	-68.2	-51.58	3.59	12.1	12	Н	Pass	

Band :	W	CDMA Ba	ınd II			Temperature :		23~24°C			
Test Mode	: RI	MC 12.2K	bps Link	(QPSK)		Relative Humidity :		44~46%			
Test Engine	eer: St	an Hsieh				Polarization : V			Vertical		
Remark: Spurious emissions within 30-1000MHz						were found m	ore tha	n 20d	B below limit	line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result	
			Limit	Reading	Power	loss	Gai				
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	( dBm )	( dB )	(dB	i)	(H/V)		
3763	-42.07	-13	-29.07	-56.36	-48.37	2.51	8.8	1	V	Pass	
5639	-49.4	-13	-36.40	-67.77	-57.11	2.99	10.7	70	V	Pass	
7522	-43.47	-13	-30.47	-69.32	-52	3.59	12.1	12	V	Pass	

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# 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
System Simulator	Rohde & Schwarz	CMU200	117995	N/A	Aug. 01, 2013	Jul. 24, 2014	Jul. 31, 2014	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	101749	10Hz ~ 30GHz	Feb. 10, 2014	Aug. 11, 2014	Feb. 09, 2015	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 10, 2013	Aug. 11, 2014	Oct. 09, 2014	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 22, 2013	Aug. 11, 2014	Aug. 21, 2014	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10 MHz ~ 1000MHz	Mar. 17, 2014	Aug. 11, 2014	Mar. 16, 2015	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1 GHz~26.5 GHz	Nov. 29, 2013	Aug. 11, 2014	Nov. 28, 2014	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Aug. 11, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	M-400-0	114/8000604/L	N/A	N/A	Aug. 11, 2014	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 03, 2013	Aug. 11, 2014	Oct. 02, 2014	Radiation (03CH07-HY)

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# 5 Uncertainty of Evaluation

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

	1
Measuring Uncertainty for a Level of	4.50
Confidence of 95% (U = 2Uc(y))	4.50

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