

# FCC Part 15C

## Measurement and Test Report

For

**SWIFF TECHNOLOGY CO.,LTD.**

**3/F, Building 2, Chaohuilou Industrial Park, No.119 Huating Road.**

**Dalang street, Longhua, Shenzhen, China**

**FCC ID:2ARWY-WS**

<b>FCC Rule(s):</b>	<u>FCC Part 15.249</u>
<b>Product Description:</b>	<u>WIRELESS SYSTEM</u>
<b>Tested Model:</b>	<u>WS-50,WS-55,WS-60,WS-70,WS-80,WS-90,WS-100, WS-200,WS-300,WS-500,WS-1000</u>
<b>Report No.:</b>	<u>BSL180911892501</u>
<b>Tested Date:</b>	<u>2018-11-05 to 2018-11-20</u>
<b>Issued Date:</b>	<u>2018-11-20</u>
<b>Tested By:</b>	<u>Messi Wang / Engineer</u> <i>Messi Wang</i>
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<b>Prepared By:</b>	

**BSL Testing Co.,LTD.**

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## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: SWIFF TECHNOLOGY CO.,LTD.  
 Address of applicant: 3/F,Building 2,Chaohuilou Industrial Park,No.119  
 Huating Road. Dalang street,Longhua,Shenzhen,China  
 Manufacturer: SWIFF TECHNOLOGY CO.,LTD.  
 Address of manufacturer: 3/F,Building 2,Chaohuilou Industrial Park,No.119  
 Huating Road. Dalang street,Longhua,Shenzhen,China

General Description of EUT	
Product Name:	WIRELESS SYSTEM
Brand Name:	SWIFF
Model No.:	WS-50
Adding Model:	WS-55,WS-60,WS-70,WS-80,WS-90,WS-100,WS-200, WS-300,WS-500,WS-1000
Hardware Version:	-
Software Version:	-
Rated Voltage:	DC 3.7V Li-ion Battery and charging by USB
Device Category:	Portable Device
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	903.1MHz-924.7MHz
Max. Field Strength:	91.92dBuV/m
Quantity of Channels:	80
Antenna Type:	Internal Antenna
Antenna Gain:	1dBi

Channel	frequency	Channel	frequency	Channel	frequency	Channel	frequency
1	903.10	26	909.10	51	917.74	76	923.74
2	903.34	27	909.34	52	917.98	77	923.98
3	903.58	28	909.58	53	918.22	78	924.22
4	903.82	29	909.82	54	918.46	79	924.46
5	904.06	30	910.06	55	918.70	80	924.70
6	904.30	31	910.30	56	918.94	76	923.74
7	904.54	32	910.54	57	919.18	77	923.98
8	904.78	33	910.78	58	919.42	78	924.22
9	905.02	34	911.02	59	919.66	79	924.46
10	905.26	35	911.26	60	919.90	80	924.70
11	905.50	36	911.50	61	920.14		
12	905.74	37	911.74	62	920.38		
13	905.98	38	911.98	63	920.62		
14	906.22	39	912.22	64	920.86		
15	906.46	40	915.10	65	921.10		
16	906.70	41	915.34	66	921.34		
17	906.94	42	915.58	67	921.58		
18	907.18	43	915.82	68	921.82		
19	907.42	44	916.06	69	922.06		
20	907.66	45	916.30	70	922.30		
21	907.90	46	916.54	71	922.54		
22	908.14	47	916.78	72	922.78		
23	908.38	48	917.02	73	923.02		
24	908.62	49	917.26	74	923.26		
25	908.86	50	917.50	75	923.50		

## 1.2 Test Standards

The following report is prepared on behalf of the SWIFF TECHNOLOGY CO.,LTD. in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

## 1.4 Test Facility

BSL Testing Co.,LTD.

NO. 24, ZH Park, Nantou, Shenzhen, 518000 China

Designation Number : CN1217

Test Firm Registration Number: 866035

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	903.1MHz
TM2	Middle Channel	915.1MHz
TM3	High Channel	924.7MHz

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Adapter Cable	1.5	Unshielded	With Core
USB Cable	1.0	Unshielded	Without Core

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number

## 1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

## 1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
Communication Tester	Rohde & Schwarz	CMW500	100358	2018-11-08	2019-11-07
Spectrum Analyzer	R&S	FSP40	100550	2018-10-08	2019-10-07
Test Receiver	R&S	ESCI7	US47140102	2018-10-08	2019-10-07
Signal Generator	HP	83630B	3844A01028	2018-10-08	2019-10-07
Test Receiver	R&S	ESPI-3	100180	2018-10-08	2019-10-07
Amplifier	Agilent	8449B	4035A00116	2018-10-08	2019-10-07
Amplifier	HP	8447E	2945A02770	2018-10-08	2019-10-07
Signal Generator	IFR	2023A	202307/242	2018-10-08	2019-10-07
Broadband Antenna	SCHAFFNER	2774	2774	2018-11-06	2019-11-05
Biconical and log periodic antennas	ELECTRO-METRIC CS	EM-6917B-1	171	2018-10-21	2019-10-20
Horn Antenna	R&S	HF906	100253	2018-10-21	2019-10-20
Horn Antenna	EM	EM-6961	6462	2018-11-03	2019-11-02
LISN	R&S	ESH3-Z5	100196	2018-10-08	2019-10-07
LISN	COM-POWER	LI-115	02027	2018-10-08	2019-10-07
3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6 (W)* 6 (H)	BSL086	2018-10-08	2019-10-07
Horn Antenna	Schwarzbeck	BBHA9170	00814	2018-10-21	2019-10-20

## 2. SUMMARY OF TEST RESULTS

<b>FCC Rules</b>	<b>Description of Test Item</b>	<b>Result</b>
§ 15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.209(a)(f)	Radiated Spurious Emissions	Compliant
§15.249(a)	Field Strength of Emissions	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.215 (c)	Emission Bandwidth	Compliant

N/A: not applicable



### **3. Antenna Requirements**

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#### **3.1 Standard Applicable**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Test Result**

This product has an integral antenna, fulfill the requirement of this section.

## 4. Radiated Emissions

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### 4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

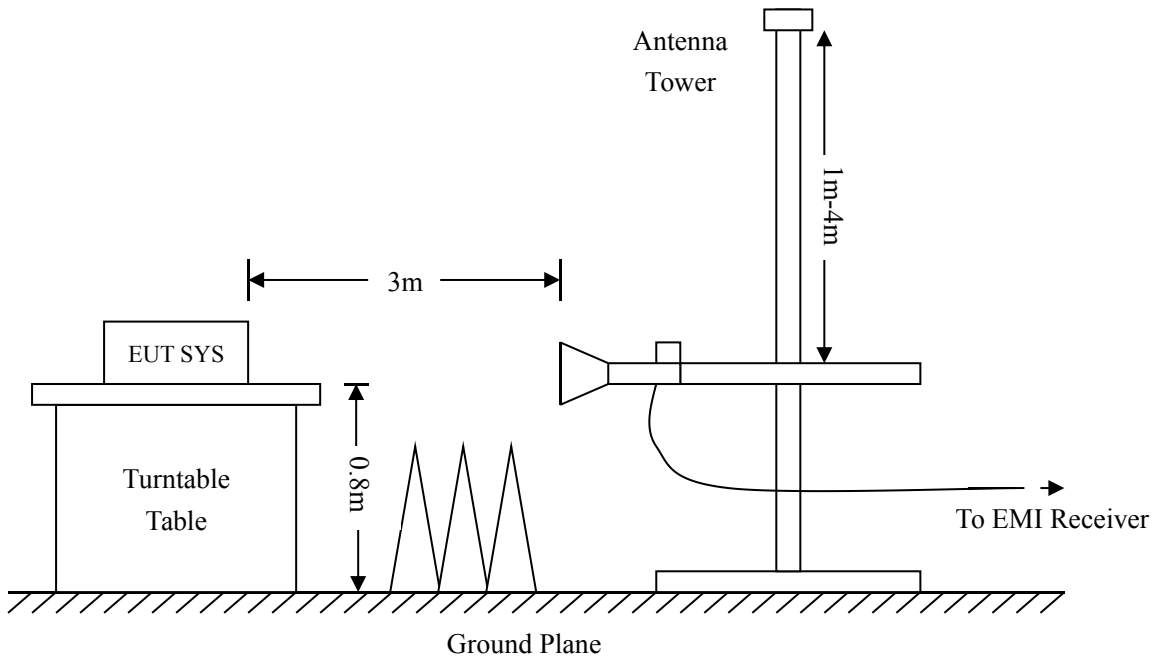
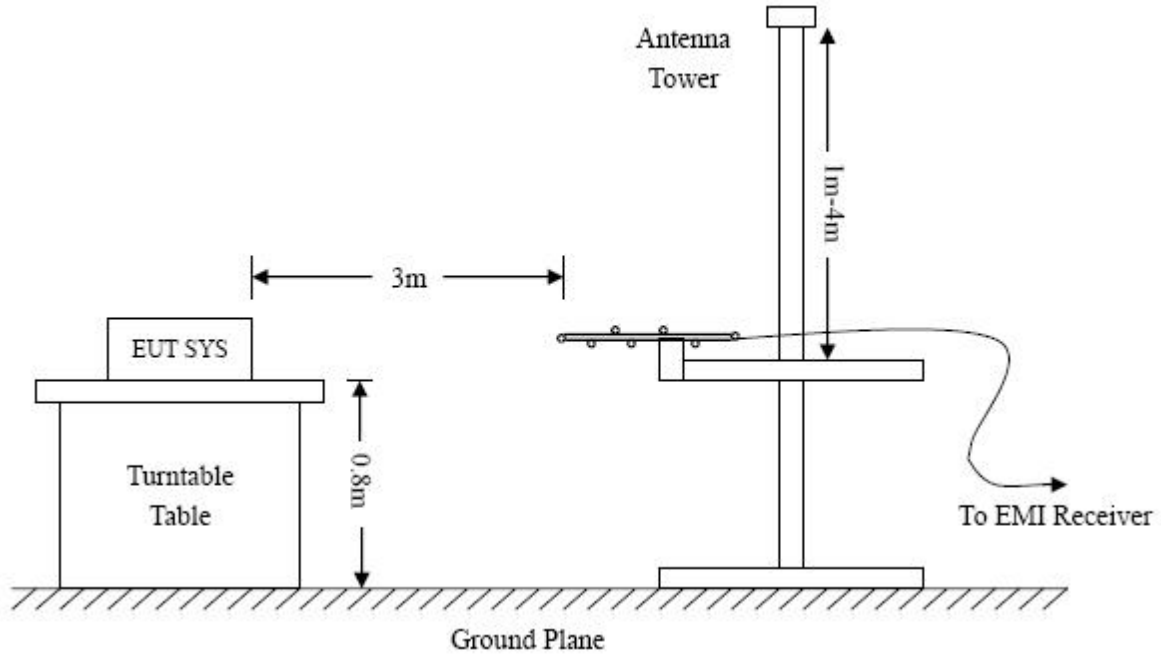
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 4.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



Frequency :9kHz-30MHz  
 RBW=10KHz,  
 VBW =30KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak

Frequency :30MHz-1GHz  
 RBW=120KHz,  
 VBW=300KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, QP

Frequency :Above 1GHz  
 RBW=1MHz,  
 VBW=3MHz(Peak), 10Hz(AV)  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, AV

### 4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of  $-6\text{dB}\mu\text{V}$  means the emission is  $6\text{dB}\mu\text{V}$  below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

### 4.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

### 4.5 Summary of Test Results/Plots

*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

**Plot of Radiated Emissions Test Data (30MHz to 1GHz)**

*EUT:* WIRELESS SYSTEM  
*Tested Model:* WS-50  
*Operating Condition:* Transmitting Low Channel (903.1MHz)  
*Comment:* DC 3.7V

*Test Specification:* Horizontal

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	214.2151	27.4	43.50	-16.1	264	100	peak
2	252.3804	33.47	46.00	-12.53	113	100	peak
3	351.6768	45.45	46.00	-0.55	287	100	peak
4	452.335	35.84	46.00	-10.16	185	100	peak
5	746.0661	35.04	46.00	-10.96	178	100	peak
6	903.100	90.49	94.00	-3.51	168	100	Fundamental

*Test Specification:* Vertical

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	95.9601	20.94	43.50	-22.56	264	100	peak
2	148.6036	22.69	43.50	-20.81	113	100	peak
3	252.3804	31.78	46.00	-14.22	287	100	peak
4	351.6768	37.83	46.00	-8.17	185	100	peak
5	653.1417	33.31	46.00	-12.69	178	100	peak
6	903.100	83.52	94.00	-10.48	168	100	Fundamental

*Operating Condition:*      *Transmitting Middle Channel (915.1MHz)*

*Comment:*                      *DC 3.7V*

*Test Specification:*         *Horizontal*

No.	Frequency	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	252.3804	33.04	46.00	-12.96	162	100	peak
2	301.5673	34.7	46.00	-11.3	200	100	peak
3	325.6561	36.24	46.00	-9.76	158	100	peak
4	351.6768	44.85	46.00	-1.15	127	100	peak
5	502.379	35.79	46.00	-10.21	169	100	peak
6	915.1000	91.92	94.00	-2.08	85	100	Fundamental

*Test Specification:*         *Vertical*

No.	Frequency	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	62.9781	30.17	40.00	-9.83	240	100	peak
2	80.1652	26.19	40.00	-13.81	187	100	peak
3	103.9192	21.42	43.50	-22.08	220	100	peak
4	252.3804	31.39	46.00	-14.61	198	100	peak
5	351.6768	37.49	46.00	-8.51	125	100	peak
6	915.1000	82.91	94.00	-11.09	145	100	Fundamental

*Operating Condition:*      *Transmitting High Channel (924.7MHz)*

*Comment:*                      *DC 3.7V*

*Test Specification:*         *Horizontal*

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	252.3804	38.09	46.00	-7.91	162	100	peak
2	351.6768	45.43	46.00	-0.57	200	100	peak
3	502.379	36.28	46.00	-9.72	147	100	peak
4	769.9482	38.09	46.00	-7.91	158	100	peak
5	924.700	88.62	94.00	-5.38	169	100	Fundamental

*Test Specification:*         *Vertical*

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	93.0163	23.38	43.50	-20.12	240	100	peak
2	143.0262	25.34	43.50	-18.16	187	100	peak
3	180.5864	27.79	43.50	-15.71	220	100	peak
4	252.3804	30.85	46.00	-15.15	148	100	peak
5	351.6768	36.8	46.00	-9.2	152	100	peak
6	924.700	80.73	94.00	-13.27	168	100	Fundamental

*Spurious Emissions Above 1GHz*

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
1806.2	45.64	74.00	-28.36	H	PK
1806.2	32.24	54.00	-21.76	H	AV
1806.2	47.52	74.00	-26.48	V	PK
1806.2	36.8	54.00	-17.2	V	AV
Middle Channel-915.1MHz					
1830.2	46.33	74.00	-27.67	H	PK
1830.2	30.81	54.00	-23.19	H	AV
1830.2	46.33	74.00	-27.67	V	PK
1830.2	31.69	54.00	-22.31	V	AV
High Channel-924.7MHz					
1849.4	45.3	74.00	-28.7	H	PK
1849.4	32.39	54.00	-21.61	H	AV
1849.4	47.49	74.00	-26.51	V	PK
1849.4	33.87	54.00	-20.13	V	AV

*Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3<sup>th</sup> Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz..*



## 5. Out of Band Emissions

### 5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### 5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

### 5.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

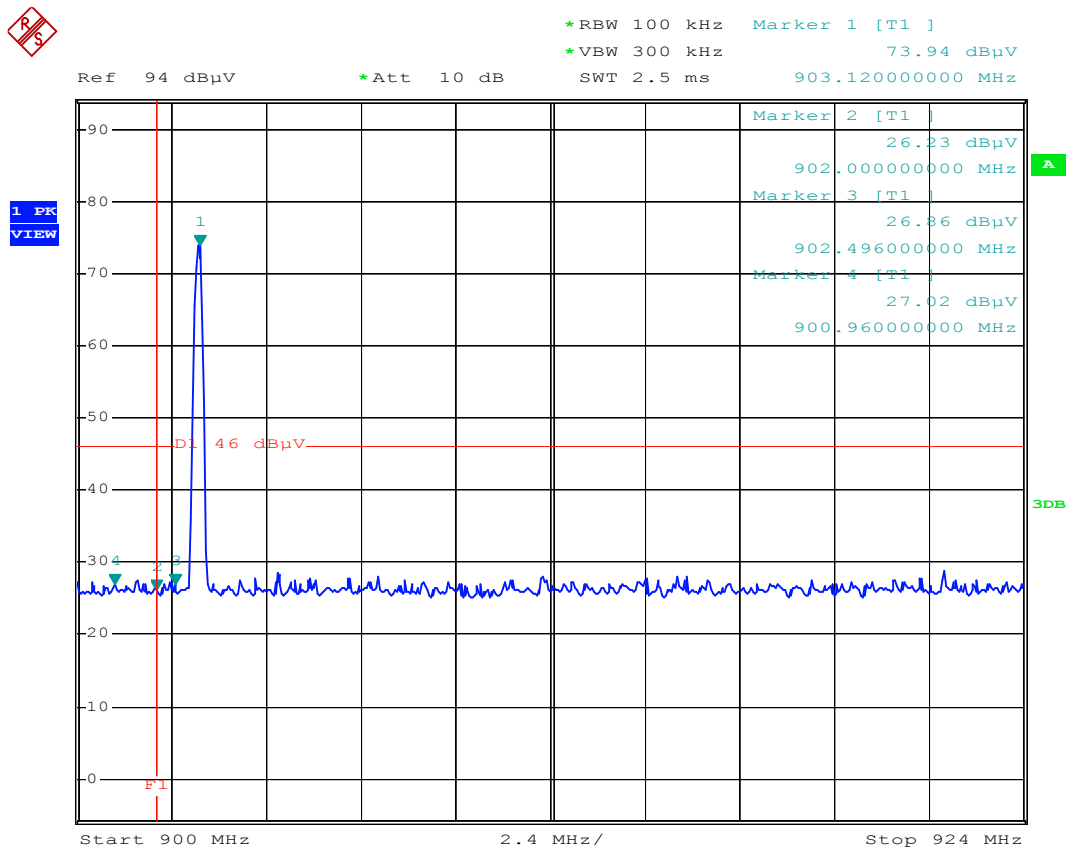
### 5.4 Summary of Test Results/Plots

Test mode	Frequency	Limit	Result
	MHz	dBuV / dBc	
Lowest	902.00	<46 dBuV	Pass
Highest	928.00	<46 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

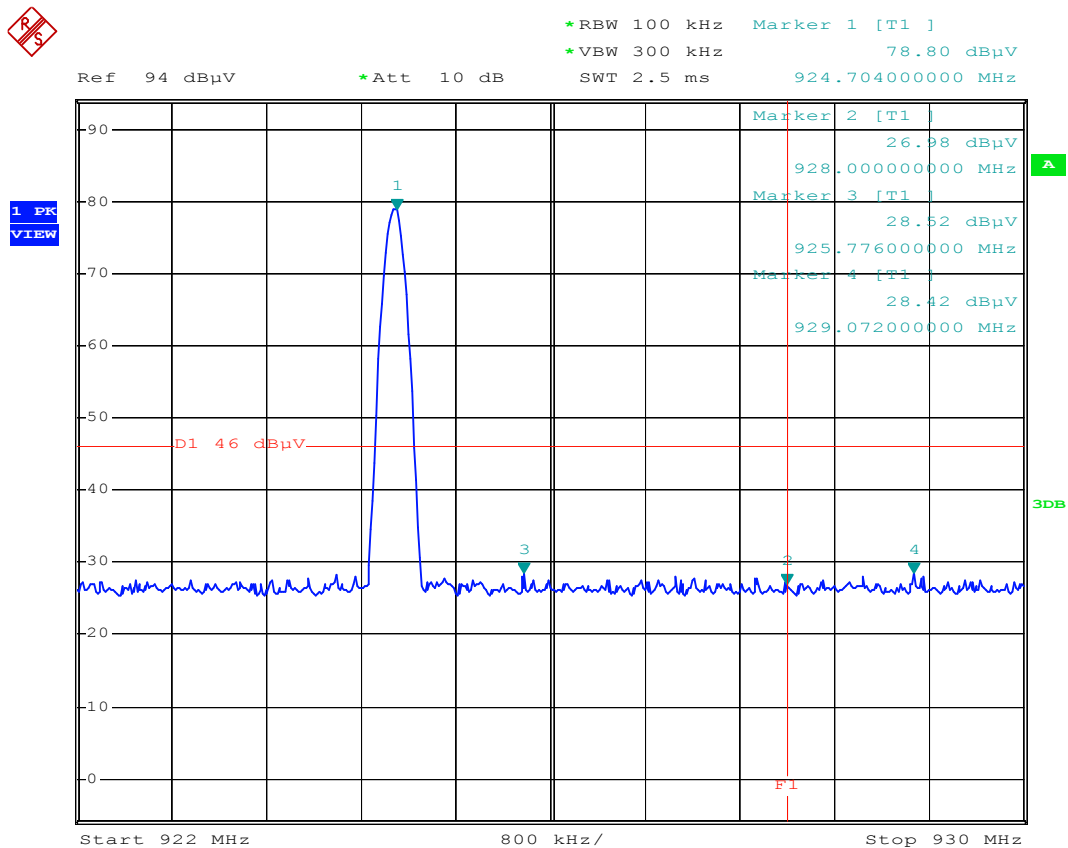
Please refer to the test plots as below.

Lowest Bandedge  
Vertical (Worst case)



Date: 12.NOV.2018 18:05:25

Highest Bandedge  
Vertical (Worst case)



Date: 12.NOV.2018 18:09:20

## 6. Emission Bandwidth

### 6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### 6.2 Test Procedure

According to the ANSI 63.4-2014, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 1MHz, centered on a transmitting channel

RBW  $\geq$ 1% 20dB Bandwidth, VBW  $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

### 6.3 Environmental Conditions

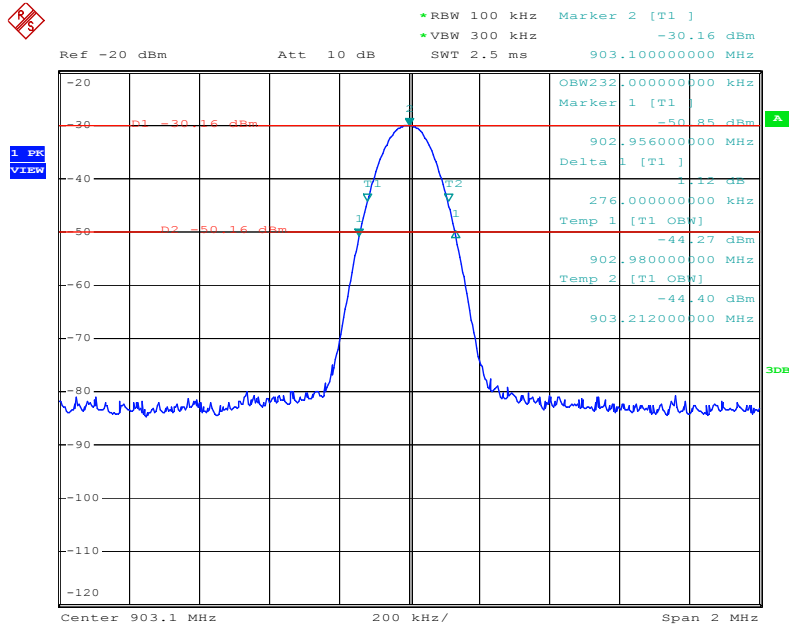
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

### 6.4 Summary of Test Results/Plots

Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	903.1	276	232
Middle Channel	915.1	276	228
High Channel	924.7	272	228

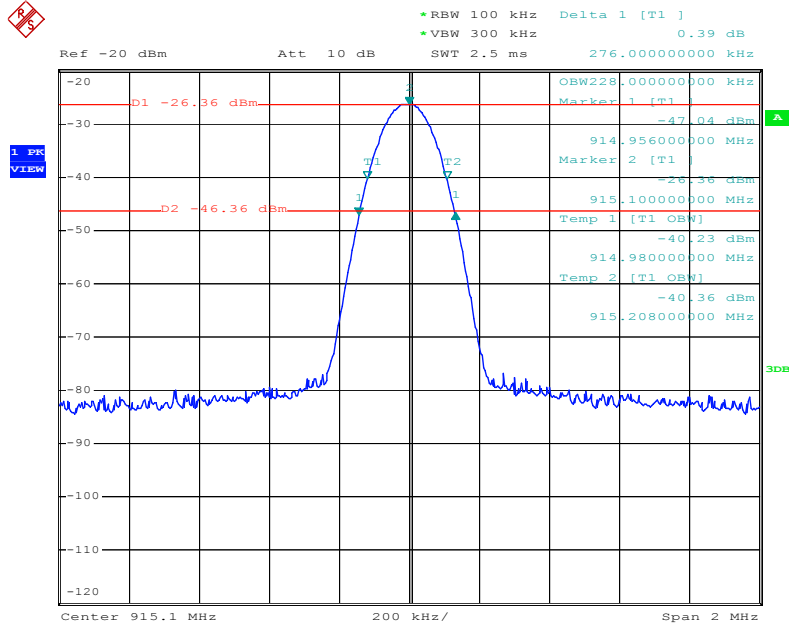
Please refer to the following test plots

Low Channel:



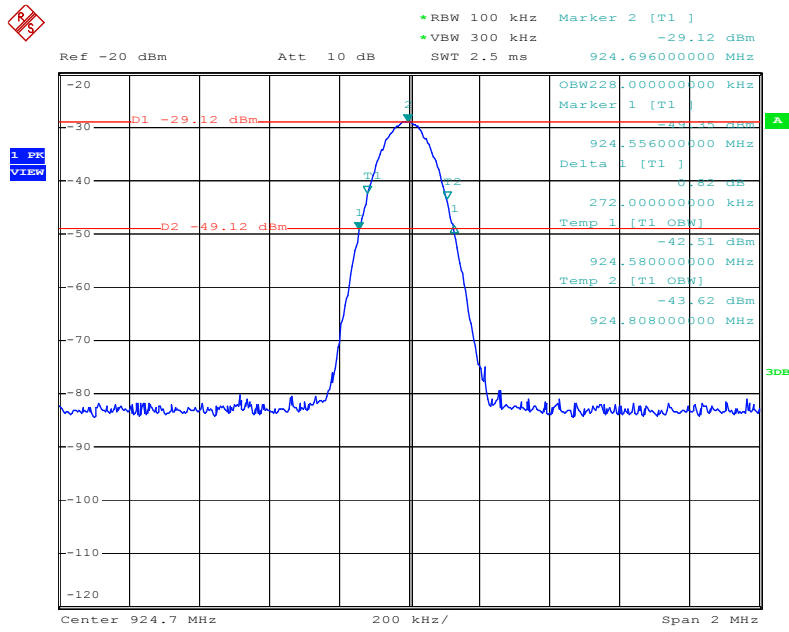
Date: 12.NOV.2018 17:54:18

Middle Channel:



Date: 12.NOV.2018 17:38:44

High Channel:



Date: 12.NOV.2018 17:42:31

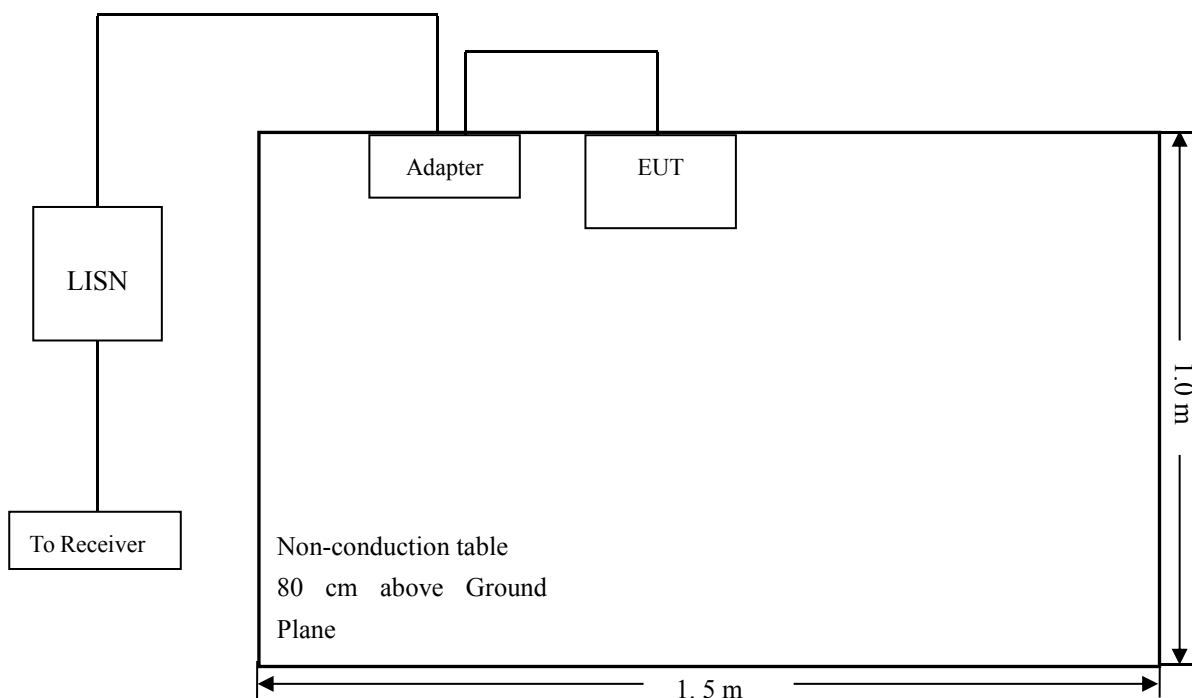
## 7. Conducted Emissions

### 7.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

### 7.2 Basic Test Setup Block Diagram



### 7.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

### 7.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency..... 150 kHz  
Stop Frequency..... 30 MHz  
Sweep Speed..... Auto  
IF Bandwidth..... 10 kHz  
Quasi-Peak Adapter Bandwidth..... 9 kHz  
Quasi-Peak Adapter Mode..... Normal

### 7.5 Summary of Test Results/Plots

According to the data in section 7.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

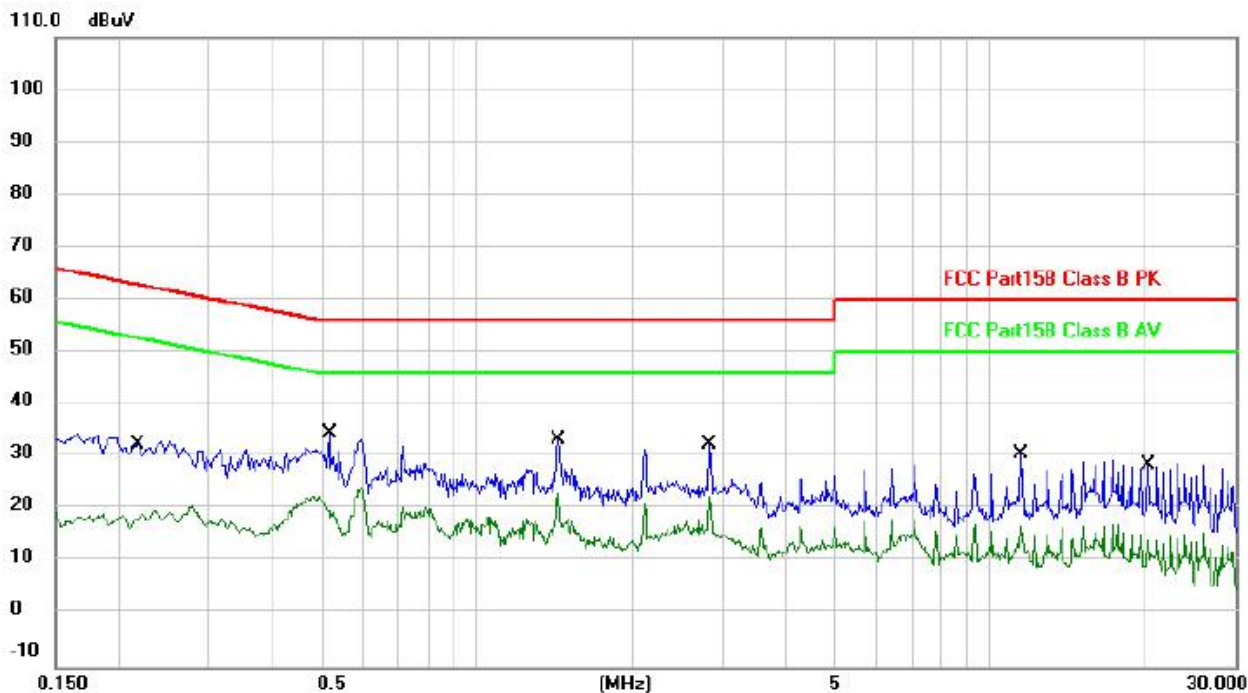
### 7.6 Conducted Emissions Test Data



**Plot of Conducted Emissions Test Data**

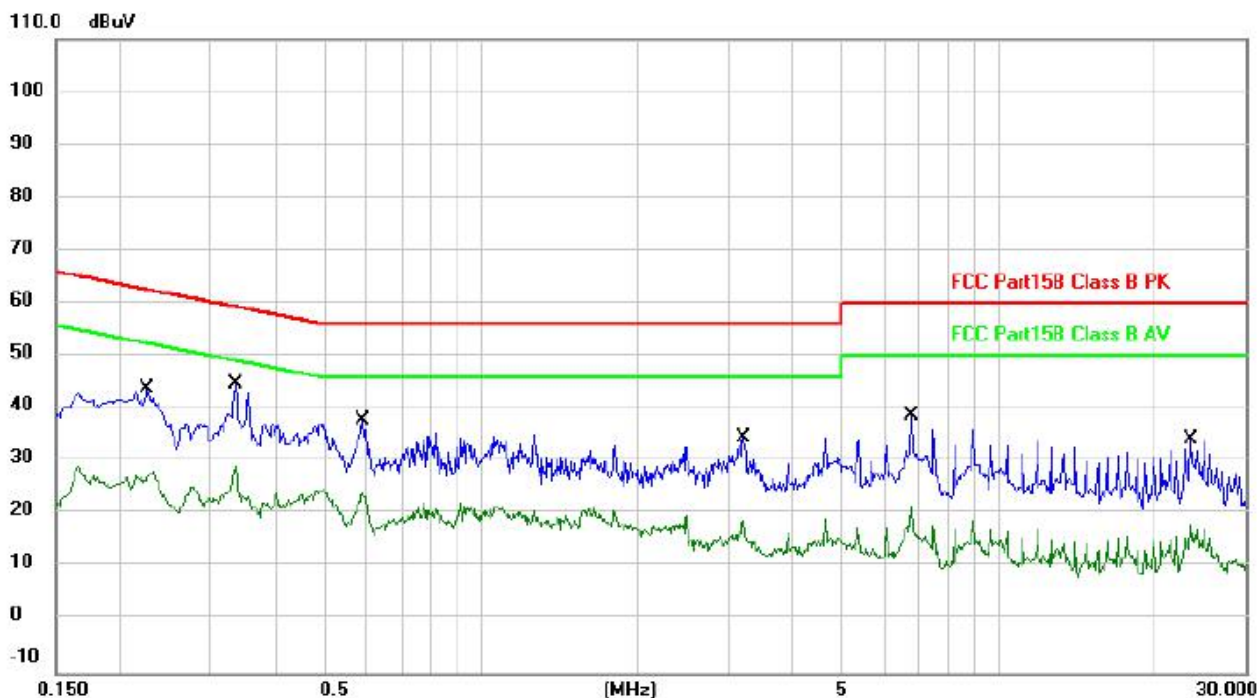
EUT: WIRELESS SYSTEM  
 Tested Model: WS-50  
 Operating Condition: Transmitting  
 Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2180	32.54	32.54	62.89	-30.35	QP	
2		0.2180	19.23	19.23	52.89	-33.66	AVG	
3	*	0.5140	34.60	34.60	56.00	-21.40	QP	
4		0.5140	18.36	18.36	46.00	-27.64	AVG	
5		1.4340	33.44	33.44	56.00	-22.56	QP	
6		1.4340	16.16	16.16	46.00	-29.84	AVG	
7		2.8340	32.57	32.57	56.00	-23.43	QP	
8		2.8340	14.20	14.20	46.00	-31.80	AVG	
9		11.4899	30.78	30.78	60.00	-29.22	QP	
10		11.4899	10.38	10.38	50.00	-39.62	AVG	
11		20.3100	28.50	28.50	60.00	-31.50	QP	
12		20.3100	7.55	7.55	50.00	-42.45	AVG	

Test Specification: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2260	43.89	43.89	62.59	-18.70	QP	
2		0.2260	26.47	26.47	52.59	-26.12	AVG	
3	*	0.3339	44.82	44.82	59.35	-14.53	QP	
4		0.3339	22.55	22.55	49.35	-26.80	AVG	
5		0.5899	37.90	37.90	56.00	-18.10	QP	
6		0.5899	17.80	17.80	46.00	-28.20	AVG	
7		3.2139	34.50	34.50	56.00	-21.50	QP	
8		3.2139	15.28	15.28	46.00	-30.72	AVG	
9		6.7899	38.61	38.61	60.00	-21.39	QP	
10		6.7899	15.51	15.51	50.00	-34.49	AVG	
11		23.6220	34.29	34.29	60.00	-25.71	QP	
12		23.6220	14.42	14.42	50.00	-35.58	AVG	

\*\*\*\*\* END OF REPORT \*\*\*\*\*