

## TEST REPORT

**Report No.: 17111142HKG-003**

Hasbro Far East Ltd.

Application For Certification  
(Original Grant)

**FCC ID: RS4-E0322**

Transceiver

This report contains the data of NFC portion only.

**PREPARED AND CHECKED BY:**

**APPROVED BY:**

Signed On File  
Leung Sung Tak, Andy  
Engineer

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Wong Kwok Yeung, Kenneth  
Senior Lead Engineer  
Date: January 04, 2018

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## TEST REPORT

### GENERAL INFORMATION

<b>Grantee:</b>	Hasbro Far East Ltd.
<b>Grantee Address:</b>	1308 World Commerce Centre, Harbour City, 11 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong.
<b>Contact Person:</b>	Richard Leung
<b>Tel:</b>	(852) 2737 7446
<b>Fax:</b>	(852) 2737 6448
<b>e-mail:</b>	N/A
<b>Manufacturer:</b>	Hasbro SA
<b>Manufacturer Address:</b>	Rue Emile-Boechat 31, 2800 Delemont CH, CH-2800 Delemont, Switzerland.
<b>Buyer:</b>	Hasbro
<b>Vendor:</b>	Herald Metal and Plastic Works Ltd.
<b>Vendor Code:</b>	ZC-001
<b>Factory Code:</b>	C
<b>Brand Name:</b>	SW SWU S2 Force Link 2 Starter Pack
<b>Model:</b>	E0322
<b>Type of EUT:</b>	Transceiver
<b>Description of EUT:</b>	SW SWU S2 Force Link 2 Starter Pack
<b>Serial Number:</b>	N/A
<b>FCC ID:</b>	RS4-E0322
<b>Date of Sample Submitted:</b>	November 28, 2017
<b>Date of Test:</b>	November 28, 2017 to December 13, 2017
<b>Report No.:</b>	17111142HKG-003
<b>Report Date:</b>	January 04, 2018
<b>Environmental Conditions:</b>	Temperature: +10 to 40°C Humidity: 10 to 90%

**TEST REPORT****SUMMARY OF TEST RESULT**

<b>TEST SPECIFICATION</b>	<b>REFERENCE</b>	<b>RESULTS</b>
Transmitter Field Strength Frequency Stability	15.225	Pass
Radiated Emission Radiated Emission on the Bandedge	15.209	Pass
Radiated Emission in Restricted Bands	15.205	Pass

The equipment under test is found to be complying with the following standards:  
FCC Part 15, October 1, 2016 Edition

- Note:
1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the pervisions of this section.
  2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

## TEST REPORT

### TABLE OF CONTENTS

<b>1.0</b>	<b>GENERAL DESCRIPTION</b> .....	<b>5</b>
1.1	Product Description .....	5
1.2	Related Submittal(s) Grants .....	5
1.3	Test Methodology .....	5
1.4	Test Facility .....	5
<b>2.0</b>	<b>SYSTEM TEST CONFIGURATION</b> .....	<b>6</b>
2.1	Justification .....	6
2.2	EUT Exercising Software .....	6
2.3	Special Accessories .....	6
2.4	Measurement Uncertainty .....	6
2.5	Support Equipment List and Description .....	7
<b>3.0</b>	<b>EMISSION RESULTS</b> .....	<b>8</b>
3.1	Field Strength Calculation .....	8
3.2	Radiated Emission Configuration Photograph .....	9
3.3	Radiated Emission Data .....	9
3.4	Frequency Stability .....	12
<b>4.0</b>	<b>EQUIPMENT PHOTOGRAPHS</b> .....	<b>13</b>
<b>5.0</b>	<b>PRODUCT LABELLING</b> .....	<b>13</b>
<b>6.0</b>	<b>TECHNICAL SPECIFICATIONS</b> .....	<b>13</b>
<b>7.0</b>	<b>INSTRUCTION MANUAL</b> .....	<b>13</b>
<b>8.0</b>	<b>MISCELLANEOUS INFORMATION</b> .....	<b>14</b>
8.1	Measured Bandwidth .....	14
8.2	Discussion of Pulse Desensitization .....	15
8.3	Calculation of Average Factor .....	15
8.4	Emissions Test Procedures .....	16
<b>9.0</b>	<b>CONFIDENTIALITY REQUEST</b> .....	<b>19</b>
<b>10.0</b>	<b>EQUIPMENT LIST</b> .....	<b>19</b>

## TEST REPORT

### 1.0 GENERAL DESCRIPTION

#### 1.1 Product Description

The Equipment Under Test (EUT) is a Force Link 2 Starter Pack, which contains a 13MHz NFC reader and a Bluetooth 4.0 module. The Bluetooth portion is for update firmware while the NFC portion is for the tag function. After placing the tags on the EUT, the EUT will recognize the tags by sending out different sound effects. The EUT is powered by 3 X 1.5V AAA batteries.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

#### 1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

#### 1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **“Justification Section”** of this Application.

#### 1.4 Test Facility

The 3m Chamber and conducted measurement facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been placed on file with the FCC.

## TEST REPORT

### 2.0 SYSTEM TEST CONFIGURATION

#### 2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The device was powered by new DC 4.5V (3 x 1.5V AAA batteries).

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

For simultaneous transmission, both Bluetooth and NFC portions are also switched on when taking radiated emission for determining worst-case spurious emission.

#### 2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF signal continuously.

#### 2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

#### 2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

**TEST REPORT**

2.5 Support Equipment List and Description

Tag (Provided by Client)

Assortment	SKU	Description	
E0323AS00	E1186AS00	Figure	SW S2 SWU Athena Grey
	E1185AS00	Figure	SW S2 SWU Hercules
	E1728AS00	Figure	SW SWU E8 Cool Beta Grey
	E1637AS00	Figure	SW S2 SWU Vesta Trooper Brown
	E2761AS00	Figure	SW SWU S2 Vesta Guard
	E1676AS00	Figure	SW E8 SWU Alpha 1
	E1638AS00	Figure	SW R1 SWU Cyclops
E0323AS01	E1186AS00	Figure	SW S2 SWU Athena Grey
	E1185AS00	Figure	SW S2 SWU Hercules
	E1677AS00	Figure	SW S2 SWU Chronos
	E1244AS00	Figure	SW E8 SWU Victor 1
	E1678AS00	Figure	SW E5 SWU Princess Leia Hoth
	E1679AS00	Figure	SW E8 SWU Victor 2
E2262AV70	E2262AV70	Figure	Alpha 1 (Exclusive Hologram)
			Tango Blue (Exclusive)
			Victor 1 (Exclusive)
		Figure	Foxtrot 1 Brown (Exclusive)
	Figure	Beta 2 Black (Exclusive)	
E03200000	E03200000	Vehicle	Pegasus Mini Ship
		Figure	Zeus Orange (LPG Pegasus)
E03220000	E03220000	Figure	Zeus (2.0 Starter Pack)

## TEST REPORT

### 3.0 EMISSION RESULTS

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

#### 3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG - AV$$

where FS = Field Strength in dB $\mu$ V/m

RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where

FS = Field Strength in dB $\mu$ V/m

RR = RA - AG - AV in dB $\mu$ V

LF = CF + AF in dB

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V/m}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$AV = 5.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 18 + 9 = 27 \text{ dB}\mu\text{V/m}$$

$$RR = 18.0 \text{ dB}\mu\text{V}$$

$$LF = 9.0 \text{ dB}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$



## TEST REPORT

### 3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 67.8 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

### 3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 13.6 dB

## TEST REPORT

### RADIATED EMISSIONS

Model: E0322

Date of Test: December 13, 2017

Worst-Case Operating Mode: Transmitting

Table 1  
Pursuant to FCC Part 15 Section 15.225 Requirement

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Distance Factor (-dB)	Calculated at 30m (dB $\mu$ V/m)	Limit at 30m (dB $\mu$ V/m)	Margin (dB)
V	13.560	63.1	0	10.8	73.9	40.0	33.9	84.0	-50.1
V	27.120	27.0	0	9.5	36.5	40.0	-3.5	29.5	-33.0

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	40.680	28.4	16	10.0	21.3	40.0	-18.7
V	54.240	30.2	16	11.0	25.2	40.0	-14.8
V	67.800	34.3	16	8.0	26.4	40.0	-13.6
H	81.360	29.1	16	7.0	21.8	40.0	-18.2
H	94.920	29.7	16	11.0	23.3	43.5	-20.2
<b>H</b>	<b>108.480</b>	<b>24.4</b>	<b>16</b>	<b>14.0</b>	<b>22.2</b>	<b>43.5</b>	<b>-21.3</b>
H	122.040	27.6	16	14.0	25.4	43.5	-18.1
<b>H</b>	<b>135.640</b>	<b>30.3</b>	<b>16</b>	<b>14.0</b>	<b>28.6</b>	<b>43.5</b>	<b>-14.9</b>
H	149.210	28.1	16	14.0	26.0	43.5	-17.4

- NOTES:
1. Peak Detector Data unless otherwise stated.
  2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
  3. Negative sign in the column shows value below limit.
  4. Loop antenna is used for the emissions below 30MHz.
  5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
  6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

**TEST REPORT**

Model: E0322

Date of Test: December 13, 2017

Worst-Case Operating Mode: Operating

Table 2  
Pursuant to FCC Part 15 Section 15.209 Requirement

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
<b><i>H</i></b>	<b><i>162.650</i></b>	<b><i>24.0</i></b>	<b><i>16</i></b>	<b><i>16.0</i></b>	<b><i>24.0</i></b>	<b><i>43.5</i></b>	<b><i>-19.5</i></b>
H	176.230	22.7	16	19.0	25.7	43.5	-17.8
H	189.805	25.2	16	16.0	25.2	43.5	-18.3
H	203.388	28.1	16	16.0	28.1	43.5	-15.4
<b><i>H</i></b>	<b><i>406.845</i></b>	<b><i>21.4</i></b>	<b><i>16</i></b>	<b><i>24.0</i></b>	<b><i>29.4</i></b>	<b><i>46.0</i></b>	<b><i>-16.6</i></b>
H	542.400	17.6	16	28.0	29.6	46.0	-16.4
H	569.565	18.1	16	28.0	30.1	46.0	-15.9
H	732.280	18.2	16	30.0	32.2	46.0	-13.8

- NOTES:
1. Peak Detector Data unless otherwise stated.
  2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
  3. Negative sign in the column shows value below limit.
  4. Horn antenna is used for the emission over 1000MHz.
  5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
  6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.

**TEST REPORT**

3.4 Frequency Stability

**FCC Part 15 Section 15.225**

**Data Table  
Frequency Deviation with Voltage Variation**

Operating frequency		13.560608MHz		
Test Voltage (V)	Temperature (°C)	Measured frequency (MHz)	Frequency error (%)	Limit (%)
4.5	+ 50	13.560442	-0.0012	±0.01
4.5	+ 40	13.560466	-0.0010	±0.01
4.5	+ 30	13.560553	-0.0004	±0.01
4.5	+ 20	13.560608	0	±0.01
4.5	+ 10	13.560621	+0.00009	±0.01
4.5	0	13.560684	+0.00056	±0.01
4.5	- 10	13.560693	+0.00063	±0.01
4.5	- 20	13.560675	+0.00049	±0.01

Nominal frequency Temperature (°C) Humidity (%)	Voltage	Frequency (MHz)	Frequency error (ppm)	Limite (ppm)	Result
20°C 50%	3.83	13.560584	-1.77	100	Pass
20°C 50%	4.5	13.560608	0	100	Pass

The device is deemed to comply with requirement of FCC15.225(e).

**TEST REPORT****4.0 EQUIPMENT PHOTOGRAPHS**

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

**5.0 PRODUCT LABELLING**

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

**6.0 TECHNICAL SPECIFICATIONS**

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

**7.0 INSTRUCTION MANUAL**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

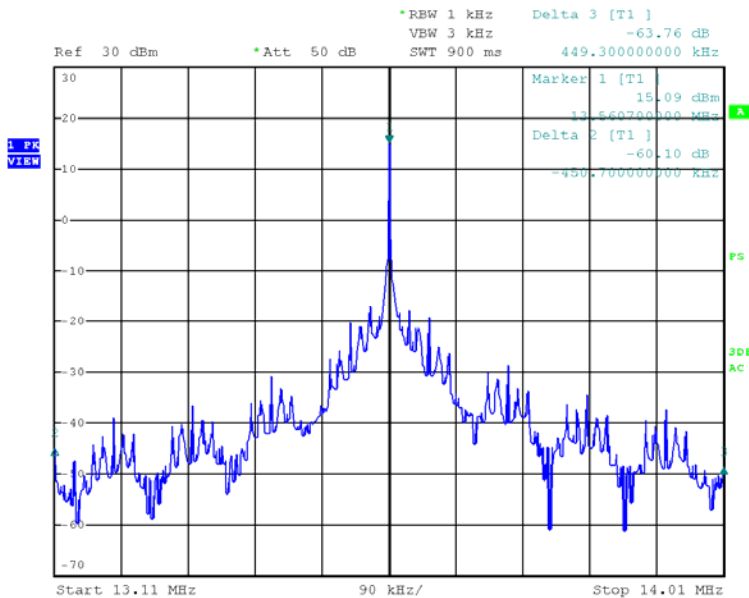
## TEST REPORT

### 8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth such as pulse desensitization and averaging factor (calculation and timing diagram).

#### 8.1 Measured Bandwidth

The plot saved in bw.pdf which shows the fundamental emission is confined in the specified band. The emission of the fundamental is 33.9 dB $\mu$ V/m and it is below the limit of 50.5 dB $\mu$ V/m in the range of (13.410-13.553MHz) and (13.710-14.010MHz) and the limit of 40.5 dB $\mu$ V/m in the frequency range of (13.110-14.410MHz) and (13.710-14.010MHz). In the frequency range from 13.110-14.010MHz, we can not find any emission higher than the fundamental emission. Therefore they meet the requirement of Section 15.225(a), (b), (c), & (d).



## TEST REPORT

### 8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. Since the transmitter transmits the RF signal continuously.

### 8.3 Calculation of Average Factor

The average factor is not applicable for this device as the transmitted signal is a continuously signal.

## TEST REPORT

### 8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.



## TEST REPORT

### 8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.10 (2013).

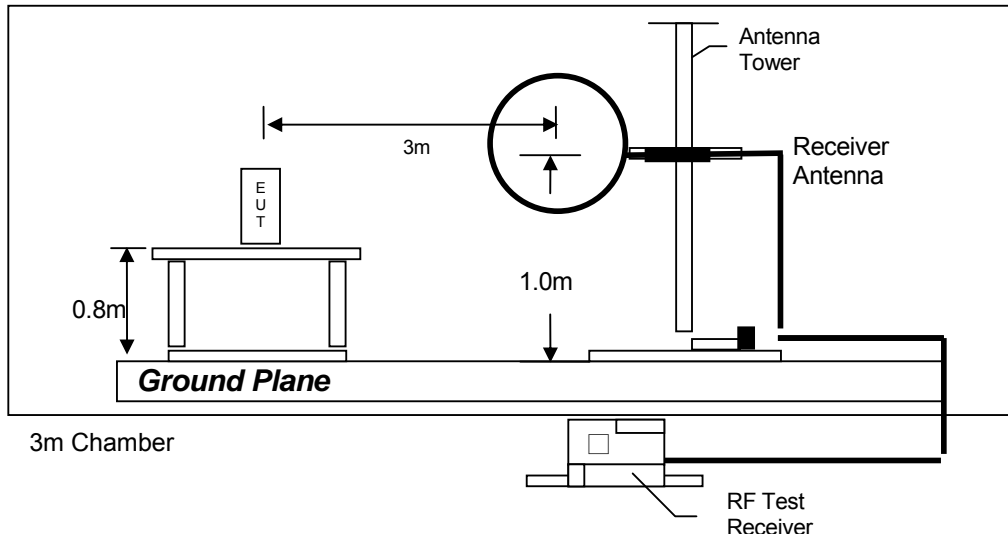
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitization is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

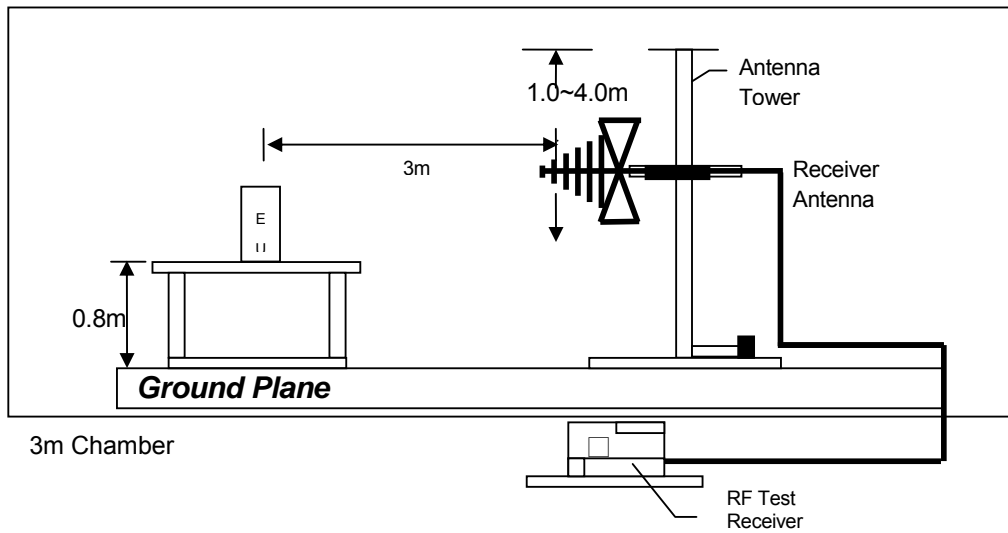
## TEST REPORT

### 8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions up to 30MHz



Test setup of radiated emissions above 1GHz

## TEST REPORT

### 9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: request.pdf.

### 10.0 EQUIPMENT LIST

1) Radiated Emissions Test

EQUIPMENT	EMI TEST RECEIVER	SPECTRUM ANALYZER	Biconical Antenna
Registration No.	EW-2500	EW-3281	EW-2512
Manufacturer	R&S	ROHDESCHWARZ	EMCO
Model No.	ESCI	FSV40	3104C
Calibration Date	Oct. 13, 2017	Dec. 19, 2016	Nov. 16, 2016
Calibration Due Date	Oct. 13, 2018	Dec. 19, 2017	May. 16, 2018

EQUIPMENT	Log Periodic Antenna	Double Ridged Guide Antenna	14m Double Shield RF Cable (20MHz to 6GHz)
Registration No.	EW-1042	EW-0194	EW-2074
Manufacturer	EMCO	EMCO	RADIALL
Model No.	3148	3115	N(m)-RG142-BNC(m) L=14M
Calibration Date	Jun. 19, 2017	Aug. 10, 2016	Jan. 20, 2017
Calibration Due Date	Dec. 19, 2018	Feb. 10, 2018	Dec. 07, 2018

EQUIPMENT	RF Cable 14m (1GHz to 26.5GHz)	RF Pre-amplifier 3 pcs (9kHz to 40GHz)	Notch Filter (cutoff frequency 2.4GHz to 2.5GHz) 2 pieces
Registration No.	EW-2781	EW-3006	EW-2213
Manufacturer	GREATBILLION	SCHWARZBECK	MICROTRONICS
Model No.	SMA m/SHF5MPPU /SMA m ra14m,26G	BBV 9718	BRM50701-02
Calibration Date	Sep. 25, 2017	Mar. 23, 2017	May 26, 2017
Calibration Due Date	Sep. 25, 2018	Mar. 23, 2018	May 26, 2018

EQUIPMENT	Active Loop H-field Antenna (9kHz to 30MHz)
Registration No.	EW-2313
Manufacturer	ELECTROMETRI
Model No.	EM-6876
Calibration Date	Jun. 27, 2016
Calibration Due Date	Dec. 27, 2017

**TEST REPORT**

2) Bandedge Measurement and Frequency Stability Measurement

<b>EQUIPMENT</b>	<b>SPECTRUM ANALYZER</b>	<b>Temperature &amp; Humidity Chamber (2 chambers inside) (Top + Bottom)</b>
Registration No.	EW-3016	EW-2395
Manufacturer	R&S	GIANT FORCE
Model No.	FSV40	GTH-210-40-SP-AR
Calibration Date	Jul. 20, 2017	Aug 29, 2017
Calibration Due Date	Jul. 20, 2018	Sep 04, 2018

END OF TEST REPORT