

## XQ ARTS TOYS CO., LTD

Application For Certification FCC ID: W2MXQ3758TX2GB

1:10 Mustang Boss

Additional names: 1:10 CORVETTE Z06, 1:10 SRT Viper, 1:10 Lamborghini LP670-4, 1:10 Ferrari FXX

Model: 3758

Additional models: 3759, 3760, 3761, 3008, 952766

Brand Name: N/A

2.4GHz Transmitter

Report No.: GZHH00196541-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-14]

Prepared and Checked by:	Approved by:	
Sign on file		
Abel Zhou	Andy Yan	
Engineer	Technical Supervisor	
-	Date: April 15, 2016	

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF No.: FCC 15C\_TX\_b

## LIST OF EXHIBITS

#### INTRODUCTION

EXHIBIT 1: General Description

EXHIBIT 2: System Test Configuration

EXHIBIT 3: Emission Results

EXHIBIT 4: Equipment Photographs

EXHIBIT 5: Product Labelling

EXHIBIT 6: Technical Specifications

EXHIBIT 7: Instruction Manual

EXHIBIT 8: Miscellaneous Information

EXHIBIT 9: Confidentiality Request

EXHIBIT 10: Test Equipment List

# MEASUREMENT/TECHNICAL REPORT XQ ARTS TOYS CO., LTD

Model: 3758

FCC ID: W2MXQ3758TX2GB

This report concerns (check one:)  Equipment Type: DXX - Part 15 Low Pow		<u> </u>
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Deferred grant requested per 47 CFR 0.4	457(d)(1)(ii)? Ye	s No <u>X</u>
	If yes, defer unti	il: date
Company Name agrees to notify the Com	nmission by:	date
of the intended date of announcement of date.	the product so that the	
Transition Rules Request per 15.37?	Ye	s No _X_
If no, assumed Part 15, Subpart C for Edition] provision.	r intentional radiator –	the new 47 CFR [10-1-14
Report prepared by:		
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## **Table of Contents**

1.0 General Description	2
1.1 Product Description	2
1.2 Related Submittal(s) Grants	
1.3 Test Methodology	
1.4 Test Facility	
,	
2.0 System Test Configuration	4
2.1 Justification	
2.2 EUT Exercising Software	
2.3 Special Accessories	
2.4 Equipment Modification	
2.5 Measurement Uncertainty	
2.6 Support Equipment List and Description	
3.0 Emission Results	6
3.1Radiated Test Results	
3.1.1 Field Strength Calculation	
3.1.2 Radiated Emission Configuration Photograph	
3.1.3 Radiated Emissions	
3.1.4 Transmitter Spurious Emissions (Radiated)	10
orriversalismus opanious Emissions (Masiatos)	
4.0 Equipment Photographs	15
5.0 Product Labelling	17
6.0 Technical Specifications	19
7.0 Instruction Manual	21
8.0 Miscellaneous Information	23
8.1 Bandedge Plot	24
8.2 Discussion of Pulse Desensitizatio	26
8.3 Calculation of Average Factor	27
8.4 Emissions Test Procedures	28
9.0 Confidentiality Request	31
40.07 45 4 4114	
10.0 Test Equipment List	33

## List of attached file

Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Report	Bandedge Plot	bandedge.pdf
Test Report	20dB BW Plot	bw.pdf
Test Report	Timing Plot	af.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf

# EXHIBIT 1 GENERAL DESCRIPTION

#### 1.0 **General Description**

### 1.1 Product Description

The Equipment under Test (EUT) is a Control unit for the 1:10 Mustang Boss model: 3758 operating at 2.4GHz band. It is powered by DC 3V (2 x 1.5V AA batteries).

The additional models are the same as the Model: 3758 in hardware and electronic aspect. The difference in appearance and model number serves as marketing strategy.

Antenna Type: Integral antenna

Type of modulation: GFSK modulation

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

## 1.2 Related Submittal(s) Grants

This is an application for certification of a Controller unit, and corresponding receiver unit associated with this EUT is exempted from the certification.

#### 1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4(2009). Radiated Emission measurement was performed in a Semi-anechoic chamber. Preliminary scans were performed in the Semi-anechoic chamber only to determine worst case modes. For each scan, the procedure for maximizing emissions in Appendices D and E were followed. 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 Semi-anechoic chamber facility used to collect the radiated data is Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

TRF No.: FCC 15C\_TX\_b
FCC ID: W2MXQ3758TX2GB
Report No.: GZHH00196451-001

## **EXHIBIT 2**

## **SYSTEM TEST CONFIGURATION**

### 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 C63.4(2009).

The EUT was powered by new DC 3.0V (2 x 1.5V AA batteries). Only the worst case data was reported.

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 unit was operated standalone and placed in the centre of the turntable.

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.

#### 2.2 EUT Exercising Software

There was no special software to exercise the device.

## 2.3 Special Accessories

No special accessories used.

#### 2.4 Equipment Modification

Any modifications installed previous to testing by XQ ARTS TOYS CO., LTD will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

## 2.5 Measurement Uncertainty

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

# 2.6 Support Equipment List and Description N/A

## **EXHIBIT 3**

## **EMISSION RESULTS**

## 3.0 **Emission Results**

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

#### 3.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

#### 3.1.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables(when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

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

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

RA = Receiver Amplitude (including preamplifier) in dBµV

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

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

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The net field strength for comparison to the appropriate emission limit is 42 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

RA =  $62.0 \text{ dB}\mu\text{V}$ AF = 7.4 dBCF = 1.6 dBAG = 29.0 dBFS =  $62 + 7.4 + 1.6 - 29 = 42 \text{ dB}\mu\text{V/m}$ 

Level in  $\mu$ V/m = Common Antilogarithm [(42 dB $\mu$ V/m)/20] = 125.9  $\mu$ V/m

## 3.1.2 Radiated Emission Configuration Photograph

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

#### 3.1.3 Radiated Emissions

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.

Worst Case Radiated Emission at 31.920 MHz

Judgement: Passed by 14.7 dB

#### **TEST PERSONNEL:**

Sign on file

Abel Zhou, Engineer
Typed/Printed Name

April 08, 2016

Date

Applicant: XQ ARTS TOYS CO., LTD

Date of Test: April 08, 2016

Model: 3758 Sample: 1/1

Worst Case Operating Mode: Transmitting (2407MHz)

Table 1

Radiated Emissions

Polarization	Frequency	Reading	Pre-	Antenna	Net	Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Horizontal	31.440	24.0	20.0	17.9	21.9	40.0	-18.1
Horizontal	94.020	25.5	20.0	16.0	21.5	43.5	-22.0
Horizontal	139.610	12.5	20.0	23.6	16.1	43.5	-27.4
Vertical	31.920	27.7	20.0	17.6	25.3	40.0	-14.7
Vertical	44.550	22.8	20.0	17.2	20.0	40.0	-20.0
Vertical	94.505	22.1	20.0	15.4	17.5	43.5	-26.0

NOTES: 1. Quasi-Peak detector is used except for others 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 value in the margin column shows emission below limit.
- 4. All emissions are below the QP limit.

## 3.1.4 Transmitter Spurious Emissions (Radiated)

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.

Worst Case Radiated Emission at 2477.000 MHz

Judgement: Passed by 12.5 dB

#### **TEST PERSONNEL:**

Sign on file

Abel Zhou, Engineer
Typed/Printed Name

April 08, 2016

Date

Applicant: XQ ARTS TOYS CO., LTD

Date of Test: April 08, 2016

Model: 3758 Sample: 1/1

Worst Case Operating Mode: Transmitting

#### Table 2

#### **Radiated Emissions**

(2407.000MHz)

Polarization	Frequency	Reading	Pre-	Antenna	Net	Peak Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)	, ,	, ,	, ,	
Vertical	2407.000	103.9	36.7	28.5	95.7	114.0	-18.3
Vertical	4814.000	55.0	36.7	34.6	52.9	74.0	-21.1
Vertical	7221.000	52.3	36.1	33.1	49.3	74.0	-24.7

Polarization	Frequency	Reading	Pre-	Antenna	Average	Net	Average Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(-dB)	(dBµV/m)	(dBµV/m)	
			(dB)					
Vertical	2407.000	103.9	36.7	28.5	14.4	81.3	94.0	-12.7
Vertical	4814.000	55.0	36.7	34.6	14.4	38.5	54.0	-15.5
Vertical	7221.000	52.3	36.1	33.1	14.4	34.9	54.0	-19.1

Notes: 1. Peak detector Data unless otherwise stated.

- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance 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 value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Abel Zhou

TRF No.: FCC 15C\_TX\_b FCC ID: W2MXQ3758TX2GB Report No.: GZHH00196451-001

Applicant: XQ ARTS TOYS CO., LTD

Date of Test: April 08, 2016

Model: 3758 Sample: 1/1

Worst Case Operating Mode: Transmitting

#### Table 3

#### **Radiated Emissions**

(2443.000MHz)

Polarization	Frequency	Reading	Pre-	Antenna	Net	Peak Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)		, ,	, ,	
Vertical	2443.000	103.0	36.7	28.6	94.9	114.0	-19.1
Vertical	4886.000	53.8	36.7	35.2	52.3	74.0	-21.7
Vertical	7329.000	52.8	36.1	33.1	49.8	74.0	-24.2

Polarization	Frequency	Reading	Pre-	Antenna	Average	Net	Average Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(-dB)	(dBµV/m)	(dBµV/m)	
			(dB)	, ,	, ,	` ' '	`	
Vertical	2443.000	103.0	36.7	28.6	14.4	80.5	94.0	-13.5
Vertical	4886.000	53.8	36.7	35.2	14.4	37.9	54.0	-16.1
Vertical	7329.000	52.8	36.1	33.1	14.4	35.4	54.0	-18.6

Notes: 1. Peak detector Data unless otherwise stated.

- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance 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 value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Abel Zhou

Applicant: XQ ARTS TOYS CO., LTD

Date of Test: April 08, 2016

Model: 3758 Sample: 1/1

Worst Case Operating Mode: Transmitting

#### Table 4

#### **Radiated Emissions**

(2477.000MHz)

Polarization	Frequency	Reading	Pre-	Antenna	Net	Peak Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Vertical	2477.000	103.7	36.7	28.9	95.9	114.0	-18.1
Vertical	4954.000	55.2	36.7	35.6	54.1	74.0	-19.9
Vertical	7431.000	52.8	36.1	33.1	49.8	74.0	-24.2

Polarization	Frequency	Reading	Pre-	Antenna	Average	Net	Average Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(-dB)	(dBµV/m)	(dBµV/m)	
			(dB)	, ,	, ,			
Vertical	2477.000	103.7	36.7	28.9	14.4	81.5	94.0	-12.5
Vertical	4954.000	55.2	36.7	35.6	14.4	39.7	54.0	-14.3
Vertical	7431.000	52.8	36.1	33.1	14.4	35.4	54.0	-18.6

Notes: 1. Peak detector Data unless otherwise stated.

- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance 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 value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Abel Zhou

## **EXHIBIT 4**

## **EQUIPMENT PHOTOGRAPHS**

## 4.0 **Equipment Photographs**

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf & internal photos.pdf.

# EXHIBIT 5 PRODUCT LABELLING

## 5.0 **Product Labelling**

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

# EXHIBIT 6 TECHNICAL SPECIFICATIONS

## 6.0 <u>Technical Specifications</u>

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

## **EXHIBIT 7**

# **INSTRUCTION MANUAL**

## 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.

# EXHIBIT 8 MISCELLANEOUS INFORMATION

## 8.0 <u>Miscellaneous Information</u>

This miscellaneous information includes details of the measured bandedge and the test procedure.

#### 8.1 Bandedge Plot

For electronic filing, the plot shows the fundamental emission when modulated is saved with filename: bandedge.pdf. From the plot, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfils the requirement of 15.249(d).

#### **Peak Measurement**

Bandedge compliance is determined by applying marker-delta method, i.e (Bandedge Plot).

## (i) Lower channel 2407.000MHz:

Peak Resultant field strength = Fundamental emissions (peak value) - delta from the bandedge plot

 $= 95.7 \text{ dB}\mu\text{V/m-}45.6\text{dB}$ = 50.1 dB $\mu\text{V/m}$ 

Average Resultant field strength = Fundamental emissions (average value) – delta from the bandedge plot

=  $81.3 \text{ dB}\mu\text{V/m-}45.6\text{dB}$ =  $35.7 \text{ dB}\mu\text{V/m}$ 

## (ii) Upper channel 2477.000MHz:

Peak Resultant field strength = Fundamental emissions (peak value) - delta from the bandedge plot

 $= 95.9 \text{ dB}\mu\text{V/m-}48.7 \text{ dB}$ = 47.2 dB $\mu\text{V/m}$ 

Average Resultant field strength = Fundamental emissions (average value) – delta from the bandedge plot

=  $81.5 \text{ dB}\mu\text{V/m}$ -48.7 dB=  $32.8 \text{ dB}\mu\text{V/m}$ 

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dBµv/m (Peak Limit) and 54dBµv/m (Average Limit).

## 8.1 Bandedge Plot (cont'd)

Pursuant to FCC part 15 Section 15.215(c), the 20dB 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.

Figure 8.1 Bandwidth

## 8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period ( $T_{\rm eff}$ ) is approximately 0.1449ms for a digital "1" bit, as shown in the plots of Exhibit 8.3. With a resolution bandwidth (3 dB) of 100 kHz, the pulse desensitivity factor was 0 dB.

## 8.3 Calculation of Average Factor

Averaging factor in dB = 20 log (duty cycle)

The specification for output field strengths in accordance with the FCC rules specify measurements with an average detector. During testing, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation. The duty cycle is measured by placing the spectrum analyzer in zero scan (receiver mode) and linear mode at maximum bandwidth (3 MHz at 3 dB down) and viewing the resulting time domain signal output from the analyzer on a Tektronix oscilloscope. The oscilloscope is used because of its superior time base and triggering facilities.

A plot of the worst-case duty cycle as detected in this manner are saved with filename: af.pdf

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 12.1739ms Effective period of the cycle = 0.1449ms x 16=2.3184ms

DC = 2.3184 / 12.1739 ms = 0.1904 or 19.04%

Therefore, the averaging factor is found by 20  $log_{10}$  0.1904 = -14.4 dB

TRF No.: FCC 15C\_TX\_b FCC ID: W2MXQ3758TX2GB Report No.: GZHH00196451-001

## 8.4 Emissions Test Procedures

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

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4- 2009.

The transmitting equipment under test (EUT) is placed on a polyethylene turntable which is four feet in diameter and approximately one meter in height above the ground plane. 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 axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

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.

TRF No.: FCC 15C\_TX\_b FCC ID: W2MXQ3758TX2GB Report No.: GZHH00196451-001

### 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 are made as described in ANSI C63.4- 2009.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 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 desensitivity is applicable to this unit is included in this report (See Exhibit 8.2). Above 1000 MHz, a resolution bandwidth of 1 MHz is used (RBW 3MHz used for fundamental emission).

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted 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, but those measurements taken at a closer distance are so marked.

TRF No.: FCC 15C\_TX\_b FCC ID: W2MXQ3758TX2GB Report No.: GZHH00196451-001

# EXHIBIT 9 CONFIDENTIALITY REQUEST

## 9.0 **Confidentiality Request**

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

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# EXHIBIT 10 TEST EQUIPMENT LIST

## 10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	14-Jun-15	14-Jun-16
SZ185-01	EMI Receiver	R&S	ESCI	100547	23-Jan-16	23-Jan-17
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	3-Sep-15	3-Sep-16
SZ061-08	Horn Antenna	ETS	3115	00092346	17-Oct-15	17-Oct-16
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	29-Apr-15	29-Apr-16
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	8-Jun-15	8-Jun-16
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	23-Jan-16	23-Jan-17
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	19-Apr-14	19-Apr-16
SZ062-02	RF Cable	RADIALL	RG 213U		30-Dec-15	30-Jun-16
SZ062-06	RF Cable	RADIALL	0.04- 26.5GHz		6-Apr-16	6-Oct-16
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz		6-Apr-16	6-Oct-16
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02		20-May-15	20-May-16