

May Cheong Toy Products Fty. Ltd.

TEST REPORT

SCOPE OF WORK FCC TESTING- MODEL: 82093(17104/17110)

REPORT NUMBER SZHH01265538-002

ISSUE DATE JUNE 27, 2018

PAGES 38

DOCUMENT CONTROL NUMBER FCC ID 249_C © 2017 INTERTEK





May Cheong Toy Products Fty. Ltd.

Application For Certification

FCC ID: PKG17104RC

Cyklone Amphibian

Model: 82093(17104/17110) Additional Models: 82175/82176/82177/82178/82179

2.4GHz Transceiver

Report No.: SZHH01265538-002

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 [10-1-17]

Prepared and Checked by:

Approved by:

Sign on file

Terry Tang Senior Engineer *Kidd Yang Technical Supervisor Date: June 27, 2018*

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Intertek Testing Service Shenzhen Ltd. Longhua Branch

1F/2F, Building B, QiaoAn Scientific Technology Park, Shangkeng Community, Guanhu Subdistrict, Longhua District, Shenzhen, P.R. China. Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751



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

May Cheong Toy Products Fty. Ltd.

Model: 82093(17104/17110)

FCC ID: PKG17104RC

This report concerns (che	ck one:)	Original Grant	X	Class II Cł	nange _	
Equipment Type: <u>DXX - F</u>	art 15 Low Po	ower Communica	tion Devic	e Transmitte	<u>er</u>	
Deferred grant requested	per 47 CFR (_	
Company Name agrees to of the intended date of an date.				date	issuec	d on that
Transition Rules Request If no, assumed Part 15, Edition] provision.		for intentional rad		he new 47	_	
Report prepared by:	1F/2F, Build Shangkeng District, She	ting Services She ling B, QiaoAn So Community, Gua enzhen, P.R. Chin 6-755-8601 6288/	cientific Te nhu Subd a	echnology Pa istrict, Long	ark,	

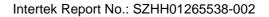




Table of Contents

1.0 General Description	7
 1.1 Product Description 1.2 Related Submittal(s) Grants 1.3 Test Methodology 1.4 Test Facility 	7 7
2.0 System Test Configuration	9
 2.1 Justification	9 9 9 9
3.0 Emission Results	. 11
 3.1 Radiated 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 	. 12 . 13 . 13
4.0 Equipment Photographs	. 20
5.0 Product Labelling	. 22
6.0 Technical Specifications	. 24
7.0 Instruction Manual	. 26
8.0 Miscellaneous Information	. 28
 8.1 Bandedge Plot 8.2 Discussion of Pulse Desensitization 8.3 Transmitter Duty Cycle Calculation 8.4 Emissions Test Procedures 	. 31 . 32
9.0 Confidentiality Request	. 36
10.0 Test Equipment List	. 38



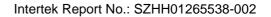
List of attached file

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 Cyklone Amphibian operating at 2.4G Band. The EUT can be powered by DC3.2V (1 x 3.2V rechargeable battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: 0dBi

The Models: 82175/82176/82177/82178/82179 are the same as the Model: 82093(17104/17110) in hardware and electrical aspect. The difference in appearance and model number serves as marketing strategy.

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 car unit for the Cyklone Amphibian, and the corresponding controller unit which associated with this EUT is subjected to FCC certification with FCC ID: PKG17110RC.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in Semi-anechoic chamber. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the 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. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

1.4 Test Facility

The Semi-anechoic chamber used to collect the radiated data is **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 1F/2F, Building B, QiaoAn Scientific Technology Park, Shangkeng Community, Guanhu Subdistrict, Longhua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: CN1188).



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 C63.10 (2013).

The EUT was powered by DC3.2V (1 \times 3.2V rechargeable battery) during the test, only the worst data was reported in this report.

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 emissions, 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 reported in Exhibit 3.

The EUT was operated standalone and placed in the central 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 placed on a turn table, 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 May Cheong Toy Products Fty. Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd Longhua 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

Description	Manufacturer	Model No.
N/A	N/A	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, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + 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
 $PD = Pulse$ Desensitization in dB
 $AV = Average$ Factor 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 + PD + AV

Assume a receiver reading of 62.0 dBµV 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 pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBµV/m. This value in dBµV/m was converted to its corresponding level in μ V/m.

RA = 62.0 dB μ V AF = 7.4 dB CF = 1.6 dB AG = 29.0 dB PD = 0 dB AV = -10 dB FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 dB μ V/m

Level in μ V/m = Common Antilogarithm [(42 dB μ V/m)/20] = 125.9 μ 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 699.200 MHz

Judgement: Passed by 13.4 dB

TEST PERSONNEL:

Sign on file

Terry Tang, Senior Engineer Typed/Printed Name

June 25, 2018 Date



Applicant: May Cheong Toy Products Fty. Ltd. Date of Test: June 25, 2018 M Worst Case Operating Mode: Tr

Model: 82093(17104/17110) Transmitting(2405MHz)

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	280.300	32.3	20.0	10.1	22.4	46.0	-23.6
Horizontal	376.200	33.8	20.0	11.3	25.1	46.0	-20.9
Horizontal	399.500	25.8	20.0	21.7	27.5	46.0	-18.5
Vertical	44.400	30.6	20.0	10.1	20.7	40.0	-19.3
Vertical	399.100	35.2	20.0	11.3	26.5	46.0	-19.5
Vertical	699.200	30.9	20.0	21.7	32.6	46.0	-13.4

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)

Worst Case Radiated Emission at 7215.00 MHz

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

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.

Judgement: Passed by 10.2 dB

TEST PERSONNEL:

Sign on file

Terry Tang, Senior Engineer Typed/Printed Name

<u>June 25, 2018</u> Date



Applicant: May Cheong Toy Products Fty. Ltd.Date of Test: June 25, 2018Model: 82Worst Case Operating Mode:Transmitti

Model: 82093(17104/17110) Transmitting

Table 2

Radiated Emissions

(2405MHz)

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	2405.000	90.0	36.7	28.1	81.4	114.0	-32.6
Vertical	4810.000	57.0	36.7	35.5	55.8	74.0	-18.2
Vertical	7215.000	58.4	36.8	35.6	57.2	74.0	-16.8

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	2405.000	90.0	36.7	28.1	13.4	68.0	94.0	-26.0
Vertical	4810.000	57.0	36.7	35.5	13.4	42.4	54.0	-11.6
Vertical	7215.000	58.4	36.8	35.6	13.4	43.8	54.0	-10.2

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.



Applicant: May Cheong Toy Products Fty. Ltd.Date of Test: June 25, 2018ModeWorst Case Operating Mode:Tran

Model: 82093(17104/17110) Transmitting

Table 3

Radiated Emissions

(2440MHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp	Antenna Factor	at 3m	Peak Limit at 3m	Margin (dB)
			Gain (dB)	(dB)	(dBµV/m)	(dBµV/m)	
Vertical	2440.000	91.1	36.7	28.1	82.5	114.0	-31.5
Vertical	4880.000	57.1	36.7	35.5	55.9	74.0	-18.1
Vertical	7320.000	58.3	36.8	35.6	57.1	74.0	-16.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	2440.000	91.1	36.7	28.1	13.4	69.1	94.0	-24.9
Vertical	4880.000	57.1	36.7	35.5	13.4	42.5	54.0	-11.5
Vertical	7320.000	58.3	36.8	35.6	13.4	43.7	54.0	-10.3

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.



Applicant: May Cheong Toy Products Fty. Ltd.Date of Test: June 25, 2018ModeWorst Case Operating Mode:Trans

Model: 82093(17104/17110) Transmitting

Table 4

Radiated Emissions

(2475MHz)

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	2475.000	91.1	36.7	28.1	82.5	114.0	-31.5
Vertical	4950.000	56.9	36.7	35.5	55.7	74.0	-18.3
Vertical	7425.000	58.4	36.8	35.6	57.2	74.0	-16.8

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	2475.000	91.1	36.7	28.1	13.4	69.1	94.0	-24.9
Vertical	4950.000	56.9	36.7	35.5	13.4	42.3	54.0	-11.7
Vertical	7425.000	58.4	36.8	35.6	13.4	43.8	54.0	-10.2

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.



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.



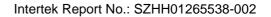
EXHIBIT 8

MISCELLANEOUS INFORMATION



8.0 Miscellaneous Information

This miscellaneous information includes details of the measured bandedge, the test procedure and calculation of factor such as pulse desensitization.





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

Restricted-band band-edge tests shall be performed as radiated measurements, i.e (Band-edge Plot).

(i) Lower channel 2405.000MHz:

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	2400.000	59.7	36.7	28.1	51.1	74.0	-22.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m	Margin (dB)
Vertical	2400.000	37.1	36.7	28.1	28.5	54.0	-25.5

(ii) Upper channel 2475.000MHz:

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	2483.500	53.3	36.8	29.1	45.6	74.0	-28.4

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m	Margin (dB)
Vertical	2483.500	36.7	36.8	29.1	29.0	54.0	-25.0

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dB μ v/m (Peak Limit) and 54dB μ v/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_{eff}) is approximately 2.609ms 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 Transmitter Duty Cycle Calculation, FCC Rule 15.35 (b, c)

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.

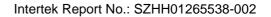
The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation. The duty cycle is measured by placing the spectrum analyzer in zero scan (receiver mode) 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 = 12.174ms Effective period of the cycle = 2.609ms DC = 2.609ms / 12.174ms = 0.2143 or 21.43%

Therefore, the averaging factor is found by $20 \log_{10} (0.2143) = -13.4$ dB





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.

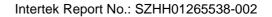
The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz 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.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.





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 C63.10 - 2013.

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.



EXHIBIT 9

CONFIDENTIALITY REQUEST



9.0 **Confidentiality Request**

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



EXHIBIT 10 TEST EQUIPMENT LIST



10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	20-Sep-2017	20-Sep-2018
SZ185-01	EMI Receiver	R&S	ESCI	100547	24-Jan-2018	24-Jan-2019
SZ061-09	Horn Antenna	ETS	3115	00092346	20-Sep-2017	20-Sep-2018
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	11-May-2018	11-May-2019
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	2-Mar-2018	2-Mar-2019
SZ056-06	Spectrum Analyzer	R&S	FSV40	101101	7-Jul-2017	7-Jul-2018
SZ181-04	Preamplifier	Agilent	8449B	3008A0247 4	24-Jan-2018	24-Jan-2019
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	16-Jan-2017	16-Jan-2019
SZ062-02	RF Cable	RADIALL	RG 213U		5-Jan-2018	5-Jul-2018
SZ062-05	RF Cable	RADIALL	0.04- 26.5GHz		8-Mar-2018	8-Sep-2018
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz		8-Mar-2018	8-Sep-2018
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02		5-Jun-2018	5-Jun-2019