
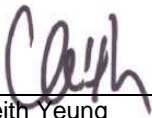

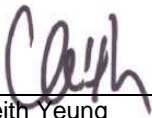

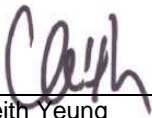





TEST REPORT No.: (5216)019-0563(A)

TEST REPORT

To:	KIDDESIGNS INC.	To:	-						
Attn:	Jasjit Singh	Attn:	-						
Address:	1299 Main Street, Rahway, New Jersey, 07065-0901, USA	Address:	-						
Fax:	2333-3839	Fax:	-						
E-mail:	--	E-mail:	-						
Folder No.:	--								
Factory Name:	DEREK (SHAOGUAN) LIMITED								
Location:	--								
Product:	202 WALKIE TALKIES Model No.: FD-202 Additional Model. No.: Please see page 4								
		Sample No:	(5216)019-0563						
		Date of Receipt:	January 19, 2016						
		Test date:	January 25, 2016						
		Test Requested:	FCC Part 15 – 2012						
		Test Method:	ANSI C63.4 – 2009						
		FCC ID:	IAJ202B						
<p>The results given in this report are related to the tested specimen of the described electrical apparatus.</p> <p>CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.</p> <p>Authorized Signature:</p> <table border="1"> <tr> <td>  </td> <td>  </td> </tr> <tr> <td>Reviewed by: Keith Yeung</td> <td>Approved by: Law Man Kit</td> </tr> <tr> <td>Date: February 15, 2016</td> <td>Date: February 15, 2016</td> </tr> </table>						Reviewed by: Keith Yeung	Approved by: Law Man Kit	Date: February 15, 2016	Date: February 15, 2016
									
Reviewed by: Keith Yeung	Approved by: Law Man Kit								
Date: February 15, 2016	Date: February 15, 2016								



TEST REPORT No.: (5216)019-0563(A)

Test Result Summary

EMISSION TEST			
Test requirement: FCC Part 15 – 2012			
Test Condition	Test Method	Test Result	
		Pass	Failed
Radiated Emission Test, 9kHz to 1GHz	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency range of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26dB Bandwidth of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Report Revision & Sample Re-submit History:

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TEST REPORT No.: (5216)019-0563(A)

Test Laboratory & Test Instruments List

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at:

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

Test Instrument List

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	03-FEB-2016
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	05-NOV-2016
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	02-FEB-2016
OPEN AREA TEST SITE	BVCPS	N/A	N/A	18-JUN-2016
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	12-FEB-2016
COAXIAL CABLE	SUHNER	RG214	N/A	04-OCT-2016

Measurement Uncertainty

Measurement	Frequency	Uncertainty
Radiated emissions	9kHz to 30MHz	4.2dB
	30MHz to 1GHz	5.0dB
	1GHz to 18GHz	4.9dB
	18GHz to 40GHz	4.8dB

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result



TEST REPORT No.: (5216)019-0563(A)

Equipment Under Test [EUT]

Description of Sample:

Model Name: 202 WALKIE TALKIES
Model Number: FD202
Additional Model Name: FINDING DORY WALKIE TALKIES,
ANT-MAN WALKIE TALKIES,
AVENGERS WALKIE TALKIES,
CARS WALKIE TALKIES,
DISNEY PRINCESS WALKIE TALKIES,
DINO TRUX WALKIE TALKIES,
FROZEN WALKIE TALKIES,
GUARDIANS OF THE GALAXY WALKIE TALKIES,
HELLO KITTY WALKIE TALKIES,
MOANA WALKIE TALKIES,
MINNIE MOUSE WALKIE TALKIES,
MINIONS WALKIE TALKIES,
DESPICABLE ME MINION MADE MINION MANIA WALKIE TALKIES,
POKEMON WALKIE TALKIES,
PAW PATROL WALKIE TALKIES,
PAW PATROL MARSHALL & RUBBLE WALKIE TALKIES,
SOFIA-THE-FIRST WALKIE TALKIES,
SKYLANDERS WALKIE TALKIES,
SECRET LIFE OF PETS WALKIE TALKIES,
ULTIMATE SPIDERMAN WALKIE TALKIES,
DOC MCSTUFFINS WALKIE TALKIES,
STAR WARS EPISODE VII WALKIE TALKIES,
TROLLS WALKIE TALKIES,
ZOOTOPIA WALKIE TALKIES

Additional Model Number: FD-202.EX, FD-202.FX, AM-202, AM-202.EX, AV-202, AV-202.EX,
CR-202, CR-202.EX, DP-202, DP-202.EXv6, DX-202, DX-202.EXv6,
FR-202, FR-202.EX, FR-202LF, FR-202LF.EX, GG-202,
GG-202.EXv1, HY-202, HY-202.EXv6, MA-202, MA-202.EXv6,
MM-202, MM-202.EX, MS-202, MS-202.EXv6, MS-202MM,
MS-202MM.EX, PK-202, PK-202.EXv6, PW-202, PW-202.EX,
PW-202CH, PW-202CH.EX, PW-202MA, PW-202MA.EX, SF-202,
SF-202.EX, SK-202, SK-202.EXv6, SL-202, SL-202.EX, SM-202,
SM-202.EX, SM-202.EXv1, ST-202, ST-202.EX, SW-202B7,
SW-202B7.EX, SW-202E7, SW-202E7.EX, SW-202E7.FX, TR-202,
TR-202.EXV6, ZT-202, ZT-202.EX

Additional Model Information: Declare the Circuit, PCB layout and Electrical parts of the products are identical to the basic model, except the model number and appearance.

Rating: 6Vd.c. ("LR44" size battery x 4)

TEST REPORT No.: (5216)019-0563(A)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **KIDDESIGNS INC.** of Radio Control toy. It is a 1 button and 1 switch transceiver and operating at 49.86MHz. The EUT continues to transmit when a button is being pushed, Modulation by IC, and type is amplitude modulation.

The transmitter has different control:

1. Talk button – transmit/receive control
2. ON/OFF switch – power on/off control

Antenna Requirement

The EUT is use of a permanently antenna. The antenna consists of 10.5cm long metal spring covered with rubber. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met .There are no deviations or exceptions to the specifications.

Photo of Antenna



TEST REPORT No.: (5216)019-0563(A)

Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.235
 Test Method: ANSI C63.4
 Test Date(s): 2016-01-25
 Temperature: 18.0 °C
 Humidity: 35.0 %
 Atmospheric Pressure: 100.6 kPa
 Mode of Operation: Transmission mode
 Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

Test Method:

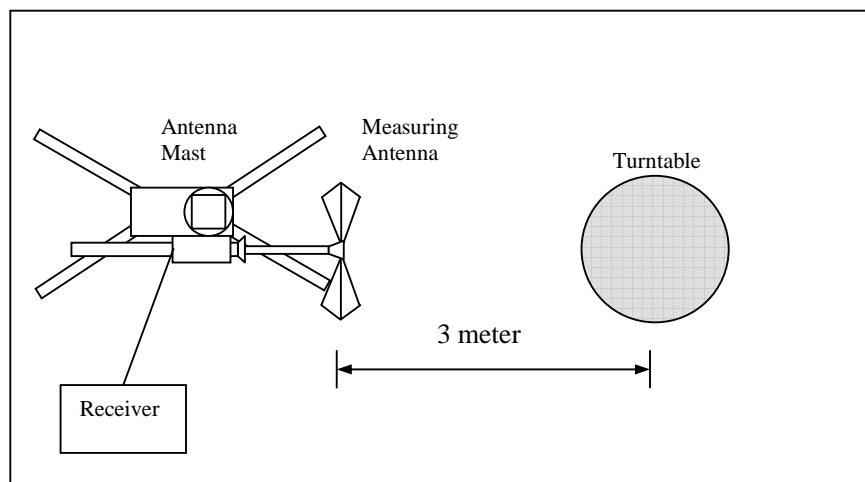
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables. For battery operated equipment, the equipment tests shall be performed using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site





TEST REPORT No.: (5216)019-0563(A)

Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [μV/m]	Field Strength of Fundamental Emission [Average] [μV/m]
49.82 – 49.90	100,000 (100 dBμV/m)	10,000 (80 dBμV/m)

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.86	H	10.9	69.2	100	-30.8
49.86	V	10.9	65.6	100	-34.4

Detection mode: Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.86	H	10.9	69.0	80	-11.0
49.86	V	10.9	65.3	80	-14.7

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz
VBW = 300KHz



TEST REPORT No.: (5216)019-0563(A)

Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.4
Test Date(s): 2016-01-25
Temperature: 18.0 °C
Humidity: 35.0 %
Atmospheric Pressure: 100.6 kPa
Mode of Operation: Transmission mode
Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]	Measurement Distance m
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above960	500	3

BUREAU VERITAS HONG KONG LIMITED –

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This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No.: (5216)019-0563(A)

Measurement Data

Test Result of (Transmission mode): **PASS**

Detection mode: **Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
99.72	H	12.0	24.3	43.5	-19.2
149.58	H	10.7	30.1	43.5	-13.4
199.44	H	9.8	28.6	43.5	-14.9
249.30	H	13.1	37.2	46.0	-8.8
299.16	H	13.9	39.3	46.0	-6.7
349.02	H	15.9	30.2	46.0	-15.8
398.88	H	17.5	35.3	46.0	-10.7
448.74	H	18.0	31.3	46.0	-14.7
498.60	H	19.2	36.3	46.0	-9.7
548.46	H	20.4	35.7	46.0	-10.3
648.18	H	20.4	38.6	46.0	-7.4
698.04	H	21.1	35.5	46.0	-10.5
747.90	H	22.4	42.7	46.0	-3.3
797.76	H	22.2	45.6	46.0	-0.4
847.62	H	23.0	44.3	46.0	-1.7
897.48	H	23.0	35.2	46.0	-10.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz



TEST REPORT No.: (5216)019-0563(A)

Measurement Data

Test Result of (Transmission mode): **PASS**

Detection mode: **Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
99.72	V	12.0	20.1	43.5	-23.4
149.58	V	10.7	29.5	43.5	-14.0
199.44	V	9.8	26.4	43.5	-17.1
249.30	V	13.1	34.1	46.0	-11.9
299.16	V	13.9	34.8	46.0	-11.2
349.02	V	15.9	28.6	46.0	-17.4
398.88	V	17.5	34.1	46.0	-11.9
448.74	V	18.0	31.5	46.0	-14.5
498.60	V	19.2	35.2	46.0	-10.8
548.46	V	20.4	33.6	46.0	-12.4
648.18	V	20.4	39.0	46.0	-7.0
698.04	V	21.1	37.8	46.0	-8.2
747.90	V	22.4	40.6	46.0	-5.4
797.76	V	22.2	45.3	46.0	-0.7
847.62	V	23.0	44.7	46.0	-1.3
897.48	V	23.0	40.8	46.0	-5.2

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

TEST REPORT No.: (5216)019-0563(A)

Test Results

Radiated Emissions (30MHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.109
Test Method: ANSI C63.4
Test Date(s): 2016-01-25
Temperature: 18.0 °C
Humidity: 35.0 %
Atmospheric Pressure: 100.6 kPa
Mode of Operation: Receiver mode
Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

Test Method:

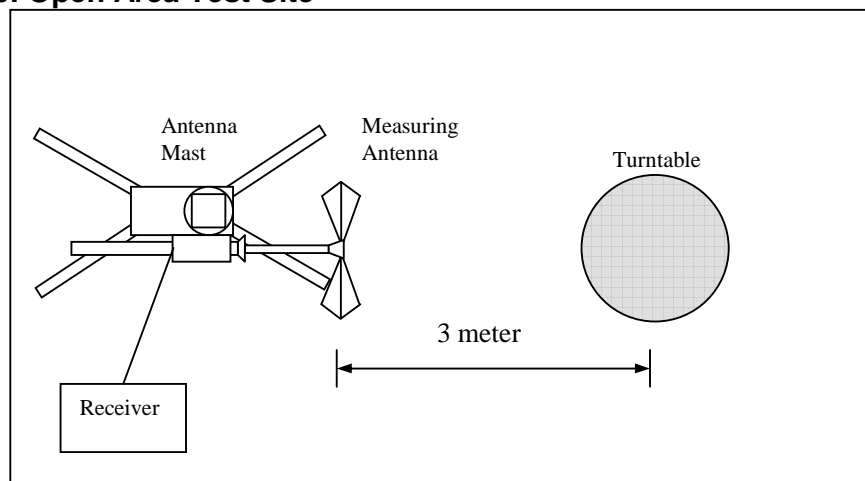
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site



TEST REPORT No.: (5216)019-0563(A)

Limits for Radiated Emission: FCC Part 15.109

Frequency Range [MHz]	Limits [dBμV/m @ 3m]
30-88	40.0
88-216	43.5
216-960	46.0
Above 960	54.0

Measurement Data

Test Result of (Receiver mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
47.88	H	11.3	38.9	40.0	-1.1
95.76	H	11.2	20.3	43.5	-23.2
143.64	H	11.5	21.6	43.5	-21.9
191.52	H	9.8	21.2	43.5	-22.3
239.40	H	12.4	23.4	46.0	-22.6
287.28	H	14.0	24.0	46.0	-22.0

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
47.88	V	11.3	37.5	40.0	-2.5
95.76	V	11.2	20.1	43.5	-23.4
143.64	V	11.5	21.7	43.5	-21.8
191.52	V	9.8	21.5	43.5	-22.0
239.40	V	12.4	23.0	46.0	-23.0
287.28	V	14.0	24.2	46.0	-21.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz



TEST REPORT No.: (5216)019-0563(A)

26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235
Test Method: ANSI C63.4
Test Date(s): 2016-01-25
Temperature: 18.0 °C
Humidity: 35.0 %
Atmospheric Pressure: 100.6 kPa
Mode of Operation: Transmission mode
Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Limits for 26dB Bandwidth of Fundamental Emission:

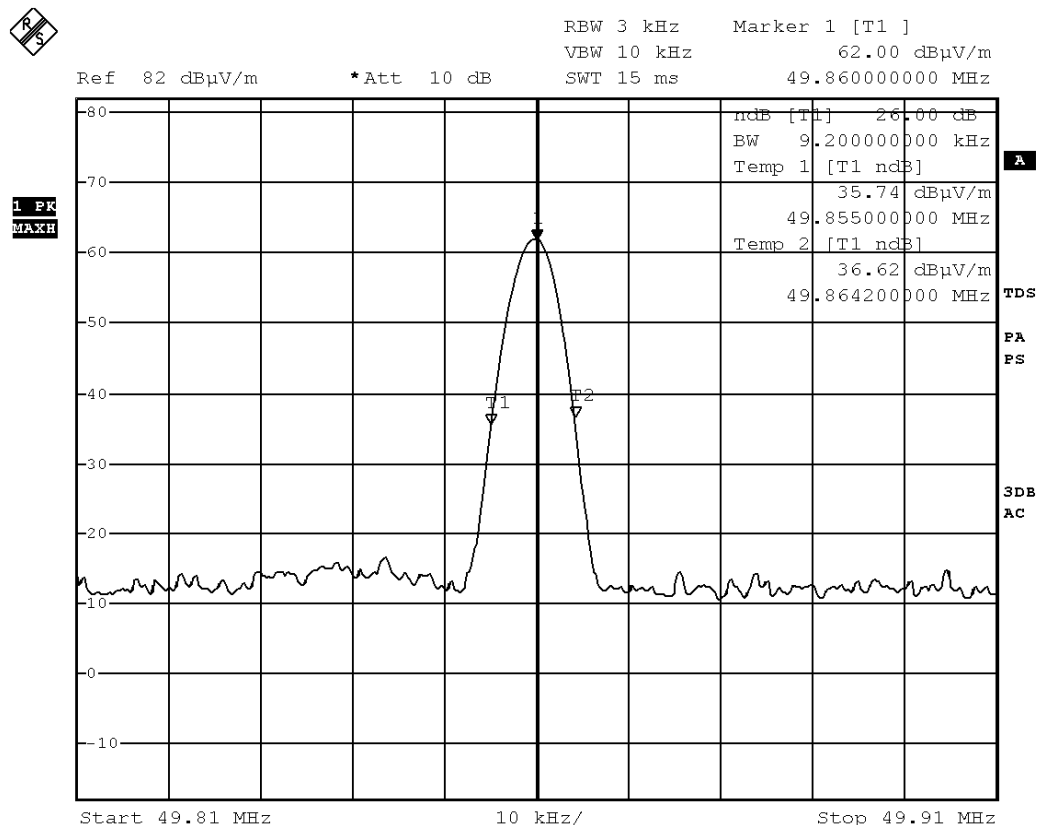
Frequency [MHz]	26dB Bandwidth [KHz]	Limits [MHz]
49.86	9.20	within 49.82-49.90



TEST REPORT No.: (5216)019-0563(A)

Measurement Data

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



TEST REPORT No.: (5216)019-0563(A)

Photographs of EUT

Front View of the product



Rear View of the product



Top View of the product



Bottom View of the product



Side View of the product



Side View of the product



Battery compartment



Battery Cover



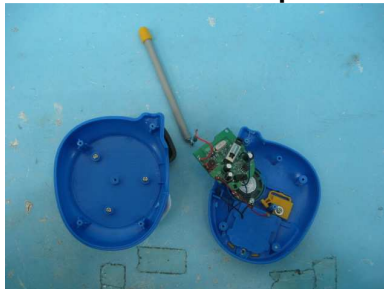
TEST REPORT No.: (5216)019-0563(A)

Photographs of EUT

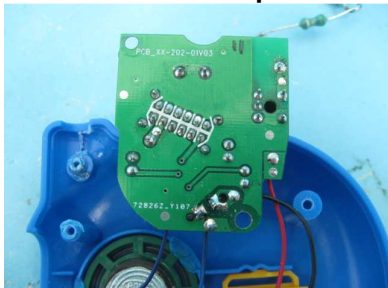
Internal View of the product



Internal View of the product



Inner Circuit Top View



Inner Circuit Bottom View



Antenna



TEST REPORT No.: (5216)019-0563(A)

Measurement of Radiated Emission Test Set Up



******* End of Report *******