

TEST REPORT No: (5216)089-0401(G)

TEST REPORT

To:	JAKKS PACIFIC (H.K.) LIMITED	To:	-
Attn:	Dick Au	Attn:	-
Address:	12/F, Wharf T&T CTR, 7 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong	Address:	-
Fax:	23111386	Fax:	-
E-mail:	dicka@jakks.com.hk	E-mail:	-
Folder No.:	--		
Factory name:	--		
Location:	--		
Product:	World of Nintendo Mini RC Racer Model No.: 02497RX		
	Sample No:	(5216)089-0401	
	Date of Receipt:	March 29, 2016	
	Test date:	April 15, 2016 to July 05, 2016	
	Test Requested:	FCC Part 15 - 2015	
	Test Method:	ANSI C63.10 - 2013	
	FCC ID:	OTA02497RX	
The results given in this report are related to the tested specimen of the described electrical apparatus.			
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.			
Authorized Signature:			
			
Reviewed by: Keith Yeung		Approved by: Law Man Kit	
Date: July 14, 2016		Date: July 14, 2016	



TEST REPORT No: (5216)089-0401(G)
Test Result Summary

EMISSION TEST			
Test requirement: FCC Part 15 - 2015			
Test Condition	Test Method	Test Result	
		Pass	Failed
Radiated Emission Test, 9kHz to 40GHz	ANSI C63.10	☒	☐
Frequency range of Fundamental Emission	ANSI C63.10	☒	☐
26dB Bandwidth of Fundamental Emission	ANSI C63.10	☒	☐
Duty Cycle Correction During 100msec	ANSI C63.10	☒	☐

Report Revision & Sample Re-submit History:

Sample first submission date: March 30, 2016
Sample second submission date: April 25, 2016
Sample third submission date: June 23, 2016



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Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. An Open Area Test Site and Full Anechoic Chamber 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

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
EMI TEST RECEIVER	R&S	ESCI	100379	23-FEB-2016	22-FEB-2017
SIGNAL ANALYZER 40GHZ	R&S	FSV 40	100977	29-JUN-2016	28-JUN-2017
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	27-FEB-2016	26-FEB-2018
OPEN AREA TEST SITE	BVCPS	N/A	N/A	18-JUN-2016	17-JUN-2017
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	11-MAY-2016	10-MAY-2017
BICONICAL ANTENNA	R&S	HK116	100179	14-APR-2016	13-APR-2018
LOG-PERIODIC DIPOLE ARRAY ANTENNA	R&S	HL223	832369/001	07-APR-2016	06-APR-2018
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	06-NOV-2015	05-NOV-2017
HORN ANTENNA (1-18GHZ)	SCHWARZBECK	BBHA9120D	9120D-692	05-NOV-2016	04-NOV-2018
HORN ANTENNA (7.5 – 18GHZ)	SCHWARZBECK	HWRD 750	00015	17-JUN-2016	16-JUN-2018
WIDEBAND HORN ANTENNA	STEATITE	QWH-SL-18-40-K-SG	12688	03-SEP-2015	02-SEP-2017
COAXIAL CABLE	SUHNER	N/A	N/A	07-JAN-2016	06-JAN-2017
COAXIAL CABLE	HUBER + SUHNER	RG214	N/A	05-OCT-2015	04-OCT-2016

Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9kHz to 30MHz	4.2dB
	30MHz to 200MHz	4.5dB
	200MHZ to 1GHz	5.6dB
	1GHz to 18GHz	4.7dB
	18GHz to 40GHz	5.2dB

Remarks:-

N/A : Not Applicable or Not Available

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

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Equipment Under Test [EUT]

Description of Sample:

Model Name: World of Nintendo Mini RC Racer
 Model Number: 02497RX
 Additional Model Number: --
 Additional Model information: --
 Rating: 9Vd.c. ("AA" size battery x 6)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **JAKKS PACIFIC (H.K.) LIMITED.** of Remote Control Transceiver. It is a 1 switch transceiver and operating at 2408MHz to 2468MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed, Modulation by IC, and type is GFSK. There are total 4 channels and below is the frequency list :

2408	2424	2436	2440	2456	2468
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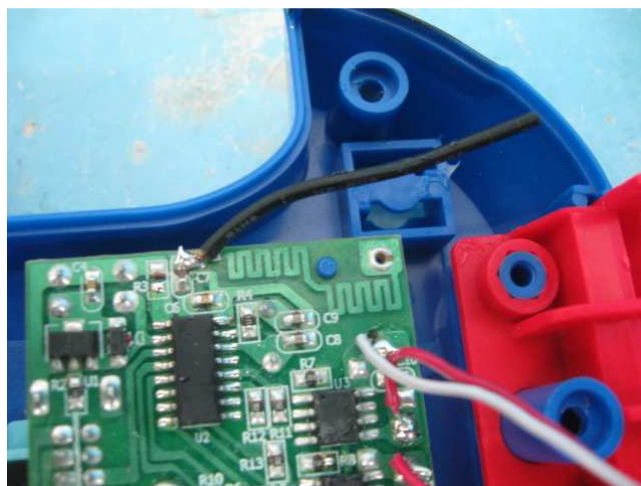
The transmitter has different control:

1. ON/OFF Switch – power control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna is a PCB trace and 3.8cm long wire soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna



TEST REPORT No: (5216)089-0401(G)

Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249
Test Method: ANSI C63.10
Test Date(s): 2016-07-05
Temperature: 29.0 °C
Humidity: 79.0 %
Atmospheric Pressure: 100.2 kPa
Mode of Operation: Transmission mode
Tested Voltage: 9Vd.c. ("AA" size battery x 9)

Test Procedure:

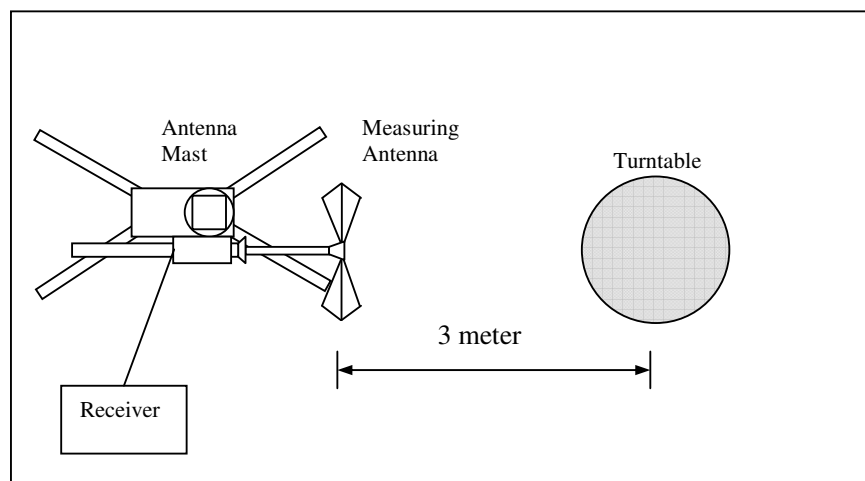
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013.

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 for measurement frequency below 1GHz and 1.5m high above the ground for measurement frequency above 1GHz. 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





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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission (Average) [mV/m]	Field Strength of Harmonics Emission (Average) [μV/m]
2400-2483.5	50	500

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
2408.28	H	-3.5	-44.4	72.5	114.0	-41.5	**28.1	94.0	-65.9
2408.28	V	-3.5	-44.4	70.6	114.0	-43.4	**26.2	94.0	-67.8

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
2440.26	H	-3.5	-44.4	72.1	114.0	-41.9	**27.7	94.0	-66.3
2440.26	V	-3.5	-44.4	71.0	114.0	-43.0	**26.6	94.0	-67.4

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
2468.30	H	-3.5	-44.4	71.3	114.0	-42.7	**26.9	94.0	-67.1
2468.30	V	-3.5	-44.4	73.5	114.0	-40.5	**29.1	94.0	-64.9

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.006) = -44.4\text{dB}$.

Note: Field Strength includes Gain of pre-amplifier, Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz



TEST REPORT No: (5216)089-0401(G)

Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249
 Test Method: ANSI C63.10
 Test Date(s): 2016-07-05
 Temperature: 29.0 °C
 Humidity: 79.0 %
 Atmospheric Pressure: 100.2 kPa
 Mode of Operation: Transmission mode
 Tested Voltage: 9Vd.c. ("AA" size battery x 6)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4816.56	H	1.6	-44.4	58.7	74.0	-15.3	**14.3	54.0	-39.7
7224.84	H	10.7	-44.4	48.3	74.0	-25.7	**3.9	54.0	-50.1
9633.12	H	15.5	-44.4	51.9	74.0	-22.1	**7.5	54.0	-46.5
12041.40	H	18.0	-44.4	54.3	74.0	-19.7	**9.9	54.0	-44.1
14449.68	H	24.0	-44.4	57.6	74.0	-16.4	**13.2	54.0	-40.8
16857.96	H	19.1	-44.4	59.7	74.0	-14.3	**15.3	54.0	-38.7
19266.24	H	13.8	-44.4	60.5	74.0	-13.5	**16.1	54.0	-37.9
21674.52	H	13.8	-44.4	60.2	74.0	-13.8	**15.8	54.0	-38.2
24082.80	H	13.6	-44.4	60.9	74.0	-13.1	**16.5	54.0	-37.5
26491.08	H	12.9	-44.4	61.1	74.0	-12.9	**16.7	54.0	-37.3

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.006) = -44.4\text{dB}$.

Note: Field Strength includes Gain of pre-amplifier, Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz



TEST REPORT No: (5216)089-0401(G)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4816.56	V	1.6	-44.4	55.1	74.0	-18.9	**10.7	54.0	-43.3
7224.84	V	10.7	-44.4	47.4	74.0	-26.6	**3.0	54.0	-51.0
9633.12	V	15.5	-44.4	51.0	74.0	-23.0	**6.6	54.0	-47.4
12041.40	V	18.0	-44.4	54.9	74.0	-19.1	**10.5	54.0	-43.5
14449.68	V	24.0	-44.4	58.7	74.0	-15.3	**14.3	54.0	-39.7
16857.96	V	19.1	-44.4	59.7	74.0	-14.3	**15.3	54.0	-38.7
19266.24	V	13.8	-44.4	60.3	74.0	-13.7	**15.9	54.0	-38.1
21674.52	V	13.8	-44.4	60.6	74.0	-13.4	**16.2	54.0	-37.8
24082.80	V	13.6	-44.4	61.2	74.0	-12.8	**16.8	54.0	-37.2
26491.08	V	12.9	-44.4	61.5	74.0	-12.5	**17.1	54.0	-36.9

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.006) = -44.4\text{dB}$.

Note: Field Strength includes Gain of pre-amplifier, Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz



TEST REPORT No: (5216)089-0401(G)

Measurement Data

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4880.52	H	1.6	-44.4	57.3	74.0	-16.7	**12.9	54.0	-41.1
7320.78	H	10.7	-44.4	48.4	74.0	-25.6	**4.0	54.0	-50.0
9761.04	H	15.8	-44.4	52.1	74.0	-21.9	**7.7	54.0	-46.3
12201.30	H	17.9	-44.4	54.6	74.0	-19.4	**10.2	54.0	-43.8
14641.56	H	25.2	-44.4	57.0	74.0	-17.0	**12.6	54.0	-41.4
17081.82	H	22.1	-44.4	58.1	74.0	-15.9	**13.7	54.0	-40.3
19522.08	H	46.5	-44.4	61.0	74.0	-13.0	**16.6	54.0	-37.4
21962.34	H	47.1	-44.4	61.4	74.0	-12.6	**17.0	54.0	-37.0
24402.60	H	47.8	-44.4	62.1	74.0	-11.9	**17.7	54.0	-36.3
26842.86	H	48.6	-44.4	61.9	74.0	-12.1	**17.5	54.0	-36.5

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4880.52	V	1.6	-44.4	57.7	74.0	-16.3	**13.3	54.0	-40.7
7320.78	V	10.7	-44.4	48.0	74.0	-26.0	**3.6	54.0	-50.4
9761.04	V	15.8	-44.4	52.2	74.0	-21.8	**7.8	54.0	-46.2
12201.30	V	17.9	-44.4	53.4	74.0	-20.6	**9.0	54.0	-45.0
14641.56	V	25.2	-44.4	56.5	74.0	-17.5	**12.1	54.0	-41.9
17081.82	V	22.1	-44.4	58.9	74.0	-15.1	**14.5	54.0	-39.5
19522.08	V	46.5	-44.4	60.7	74.0	-13.3	**16.3	54.0	-37.7
21962.34	V	47.1	-44.4	60.6	74.0	-13.4	**16.2	54.0	-37.8
24402.60	V	47.8	-44.4	61.5	74.0	-12.5	**17.1	54.0	-36.9
26842.86	V	48.6	-44.4	62.0	74.0	-12.0	**17.6	54.0	-36.4

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.006)$ = -44.4dB.

Note: Field Strength includes Gain of pre-amplifier, Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

TEST REPORT No: (5216)089-0401(G)

Measurement Data

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4936.60	H	1.7	-44.4	59.4	74.0	-14.6	**15.0	54.0	-39.0
7404.90	H	10.7	-44.4	47.3	74.0	-26.7	**2.9	54.0	-51.1
9873.20	H	15.9	-44.4	51.8	74.0	-22.2	**7.4	54.0	-46.6
12341.50	H	17.6	-44.4	53.7	74.0	-20.3	**9.3	54.0	-44.7
14809.80	H	24.6	-44.4	57.8	74.0	-16.2	**13.4	54.0	-40.6
17278.10	H	23.5	-44.4	59.0	74.0	-15.0	**14.6	54.0	-39.4
19746.40	H	46.6	-44.4	60.2	74.0	-13.8	**15.8	54.0	-38.2
22214.70	H	47.5	-44.4	60.7	74.0	-13.3	**16.3	54.0	-37.7
24683.00	H	47.9	-44.4	61.5	74.0	-12.5	**17.1	54.0	-36.9
27151.30	H	48.7	-44.4	61.6	74.0	-12.4	**17.2	54.0	-36.8

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4936.60	V	1.7	-44.4	58.9	74.0	-15.1	**14.5	54.0	-39.5
7404.90	V	10.7	-44.4	48.1	74.0	-25.9	**3.7	54.0	-50.3
9873.20	V	15.9	-44.4	51.6	74.0	-22.4	**7.2	54.0	-46.8
12341.50	V	17.6	-44.4	52.9	74.0	-21.1	**8.5	54.0	-45.5
14809.80	V	24.6	-44.4	56.6	74.0	-17.4	**12.2	54.0	-41.8
17278.10	V	23.5	-44.4	58.9	74.0	-15.1	**14.5	54.0	-39.5
19746.40	V	46.6	-44.4	60.7	74.0	-13.3	**16.3	54.0	-37.7
22214.70	V	47.5	-44.4	61.0	74.0	-13.0	**16.6	54.0	-37.4
24683.00	V	47.9	-44.4	61.1	74.0	-12.9	**16.7	54.0	-37.3
27151.30	V	48.7	-44.4	61.3	74.0	-12.7	**16.9	54.0	-37.1

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.006) = -44.4\text{dB}$.

Note: Field Strength includes Gain of pre-amplifier, Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz



TEST REPORT No: (5216)089-0401(G)

Radiated Emissions (30MHz – 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209
 Test Method: ANSI C63.10
 Test Date(s): 2016-07-05
 Temperature: 29.0 °C
 Humidity: 79.0 %
 Atmospheric Pressure: 100.2 kPa
 Mode of Operation: On mode
 Tested Voltage: 9Vd.c. ("AA" size battery x 6)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [$\mu\text{V/m}$]	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
Above 960	500	3

Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength (dB $\mu\text{V/m}$)	Limit (dB $\mu\text{V/m}$)	Margin (dB)
Emissions detected are more than 20 dB below the limit line(s) in 9kHz to 30MHz				

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 200Hz
 VBW = 200Hz



TEST REPORT No: (5216)089-0401(G)
Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
159.88	H	28.5	43.5	-15.0
229.88	H	36.3	46.0	-9.7
236.96	H	25.4	46.0	-20.6
378.00	H	30.6	46.0	-15.4
510.88	H	28.2	46.0	-17.8
602.24	H	39.0	46.0	-7.0

Frequency (MHz)	Polarity (H/V)	Field Strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
159.88	V	24.3	43.5	-19.2
229.88	V	26.7	46.0	-19.3
236.96	V	26.2	46.0	-19.8
378.00	V	30.1	46.0	-15.9
510.88	V	29.7	46.0	-16.3
602.24	V	37.5	46.0	-8.5

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120kHz
 VBW = 120kHz



TEST REPORT No: (5216)089-0401(G)

Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249
Test Method: ANSI C63.10 Clause 6.10
Test Date(s): 2016-07-05
Temperature: 29.0 °C
Humidity: 79.0 %
Atmospheric Pressure: 100.2 kPa
Mode of Operation: Transmission mode
Tested Voltage: 9Vd.c. ("AA" size battery x 6)

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 Frequency range of Fundamental Emission:

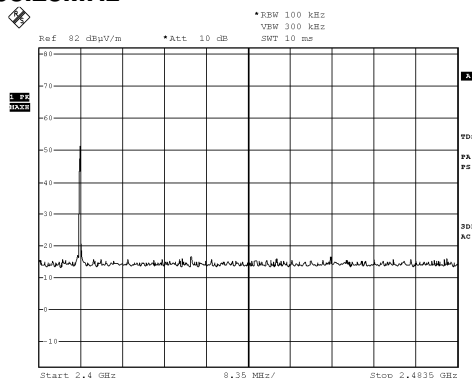
Frequency [MHz]	FCC Limits [MHz]
2408.108 – 2468.472	2400 – 2483.5

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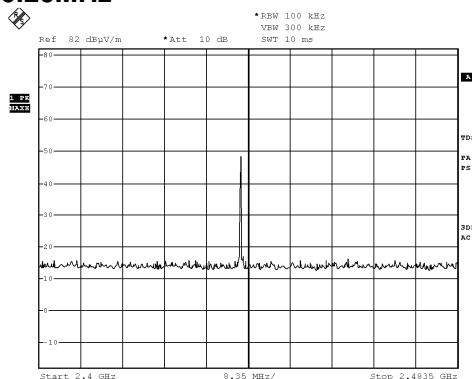
Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS

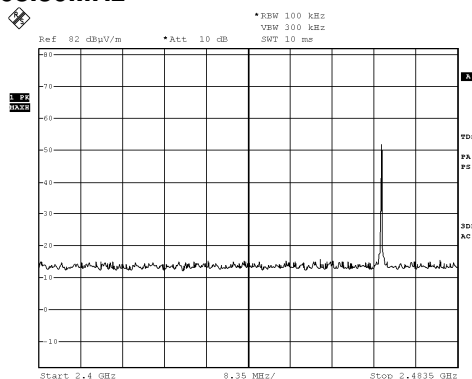
Lowest Frequency – 2408.28MHz



Middle Frequency – 2440.26MHz



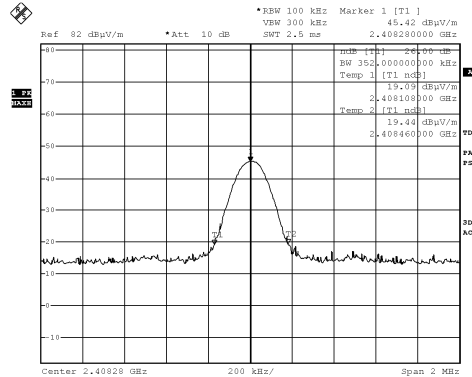
Highest Frequency – 2468.30MHz



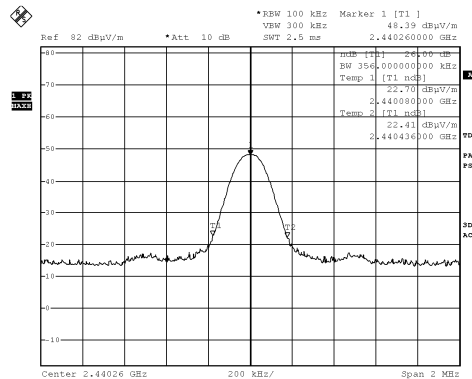
TEST REPORT No: (5216)089-0401(G)
Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

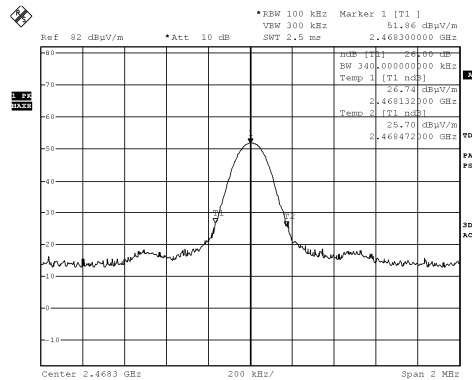
Lowest Frequency – 2408.28MHz



Middle Frequency – 2440.26MHz



Highest Frequency – 2468.30MHz





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Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 2 pulses (0.3msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered $\frac{2 \times 0.3}{100} \text{ per } 100\text{msec} = 0.6\%$ duty cycle.

Remarks:

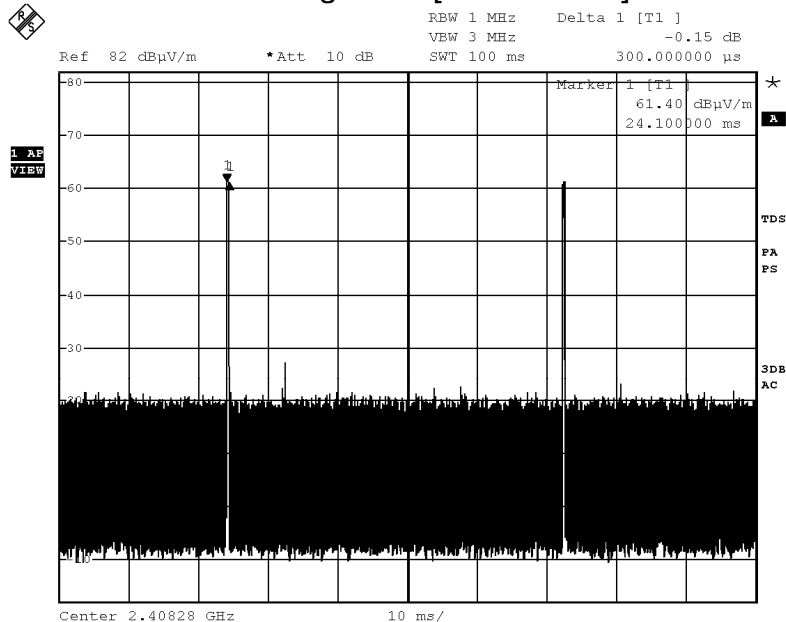
Duty Cycle Correction = $20\text{Log}(0.006) = -44.4\text{dB}$

The following figures [Figure A] show the characteristics of the pulse train for one of these functions.

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Measurement Data :

Figure A [Pulse Train]



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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



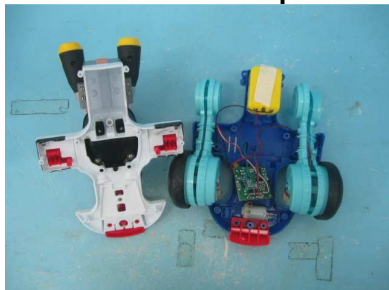
Battery Cover



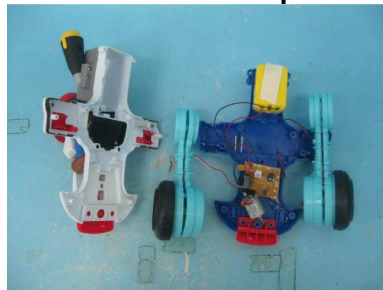
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Photographs of EUT

Internal View of the product



Internal View of the product



Inner Circuit Top View



Inner Circuit Bottom View



Antenna



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Measurement of Radiated Emission Test Set Up



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