

FCC Test Report

Report No.: AGC07385190902FE03

FCC ID : 2AIOG20190912
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : R/ C CAR
BRAND NAME : N/A
MODEL NAME : R-401S
SERIES MODEL : See Page 5
APPLICANT : RUNLONG TOYS&CRAFT FACTORY
DATE OF ISSUE : Sep. 17, 2019
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S) : FCC Part 15 Rules
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 17, 2019	Valid	Initial Release



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1. VERIFICATION OF CONFORMITY

Applicant	RUNLONG TOYS&CRAFT FACTORY
Address	LIANHE ROAD 5TH LANE OF NO .1, WAIPIU INDUSTRIAL ZONE FENGXIANG STREET, CHENGHAI DISTRICT, Shantou, China.
Product Designation	R/ C CAR
Brand Name	N/A
Test Model	R-401S
Series Model	See Page 5
Difference Description	All the same except for the model name and packaging
Date of test	Sep. 09, 2019 to Sep. 17, 2019
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By

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Sep. 17, 2019

Reviewed By

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(Reviewer)

Sep. 17, 2019

Approved By

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(Authorized Officer)

Sep. 17, 2019



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.405 GHz to 2.475GHz
Maximum field strength	81.00dBuV/m(Average)@3m
Modulation	GFSK
Number of channels	71
Antenna Gain	0dBi
Antenna Designation	Wired Antenna (Met 15.203 Antenna requirement)
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 3V by Battery

2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2405MHZ
	2	2406MHZ
	:	:
	:	:
	70	2474MHZ
	71	2475MHZ

Note: Channel spacing=1MHz

Series Model:

R-101, R-102, R-103, R-101S, R-102S, R-103S, R-201, R-202, R-203, R-201S, R-202S, R-203S, R-301, R-302, R-303, R-301S, R-302S, R-303S, R-401, R-402, R-403, R-404, R-402S, R-403S, R-404S, R-411, R-412, R-413, R-414, R-411S, R-412S, R-413S, R-414S, R-421, R-422, R-423, R-424, R-421S, R-422S, R-423S, R-424S, R-501, R-502, R-503, R-504, R-501S, R-502S, R-503S, R-504S, R-511, R-512, R-513, R-514, R-511S, R-512S, R-513S, R-514S, R-521, R-522, R-523, R-524, R-521S, R-522S, R-523S, R-524S, R-531, R-532, R-533, R-534, R-531S, R-532S, R-533S, R-534S, R-551, R-552, R-553, R-554, R-551S, R-552S, R-553S, R-554S, R-601, R-602, R-603, R-604, R-601S, R-602S, R-603S, R-604S, R-611, R-612, R-613, R-614, R-611S, R-612S, R-613S, R-614S, F-464, F-465



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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8 \text{ dB}$



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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.



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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	R/C CAR	R-401S	2AIOG20190912	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	N/A

Note: The conducted limits are not required for devices which only employ battery power for operation.



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 10, 2019	Jun. 09, 2020
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 10, 2019	Jun. 09, 2020
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 10, 2019	Jun. 09, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

7. RADIATED EMISSION**7.1 TEST LIMIT****Standard FCC15.249**

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



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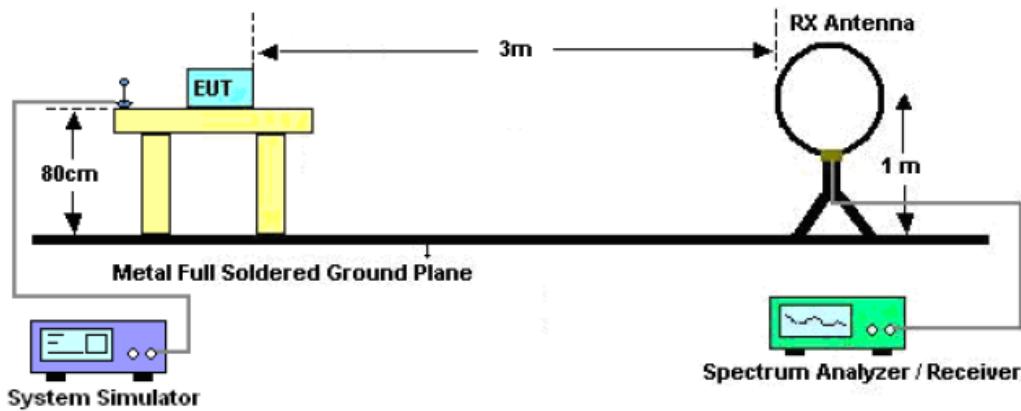
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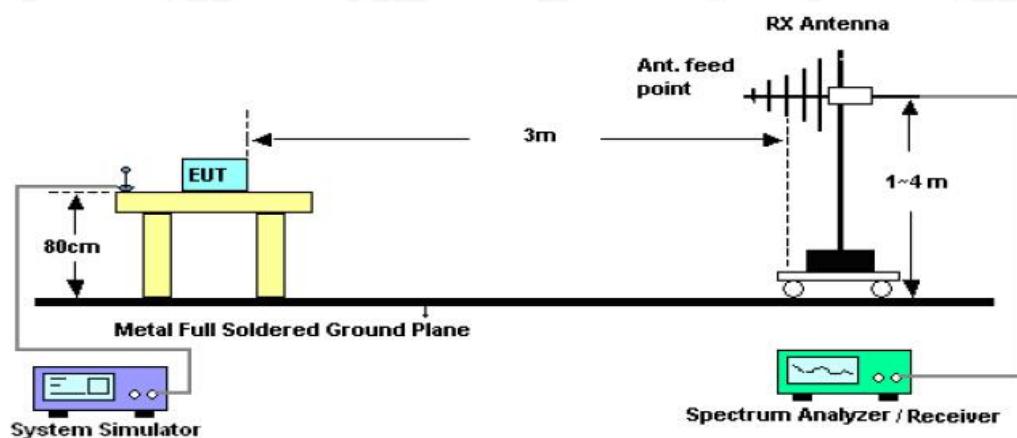
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7.3. TEST SETUP

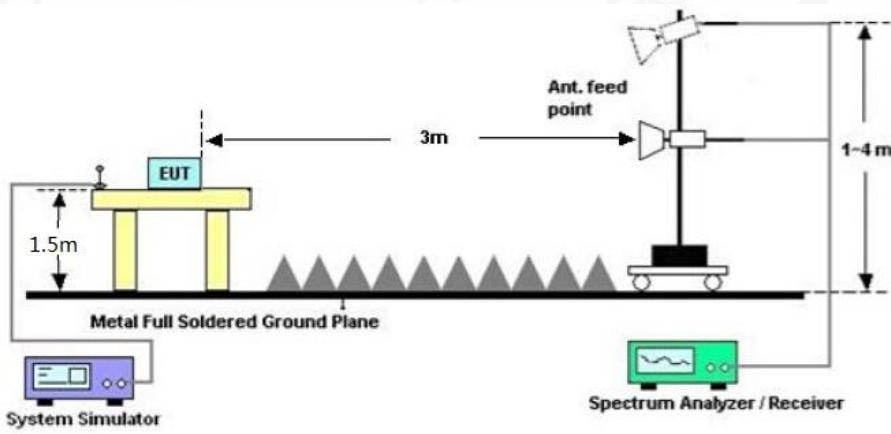
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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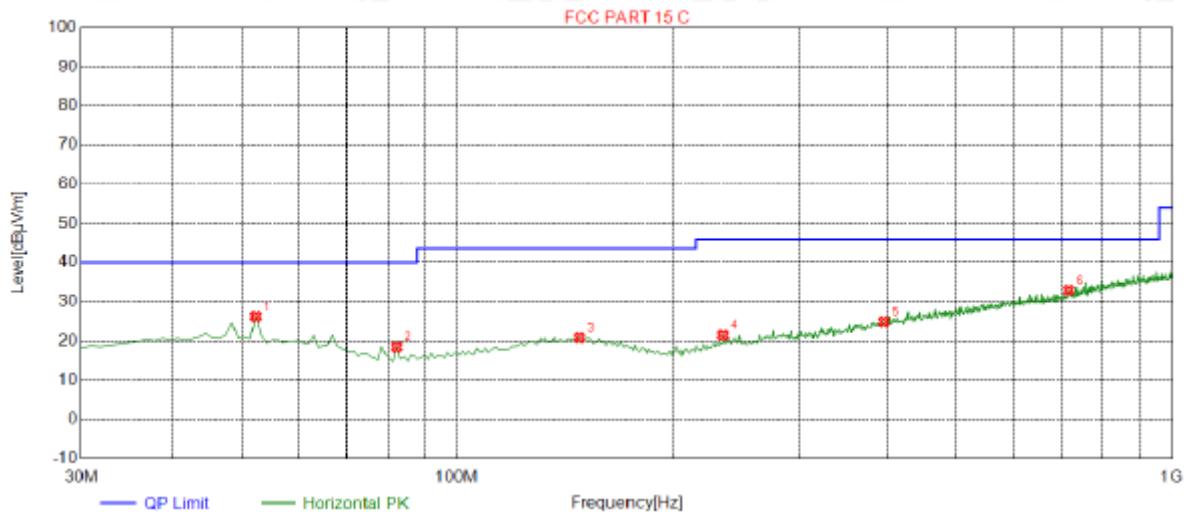
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz- 1GHZ

EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1	Polarization :	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	26.16	14.49	40.00	13.84	150	305	Horizontal
2	82.3800	18.48	10.17	40.00	21.52	150	253	Horizontal
3	148.340	20.87	14.88	43.50	22.63	100	231	Horizontal
4	235.640	21.50	14.48	46.00	24.50	100	299	Horizontal
5	395.690	24.81	19.60	46.00	21.19	100	151	Horizontal
6	717.730	32.99	26.40	46.00	13.01	100	356	Horizontal



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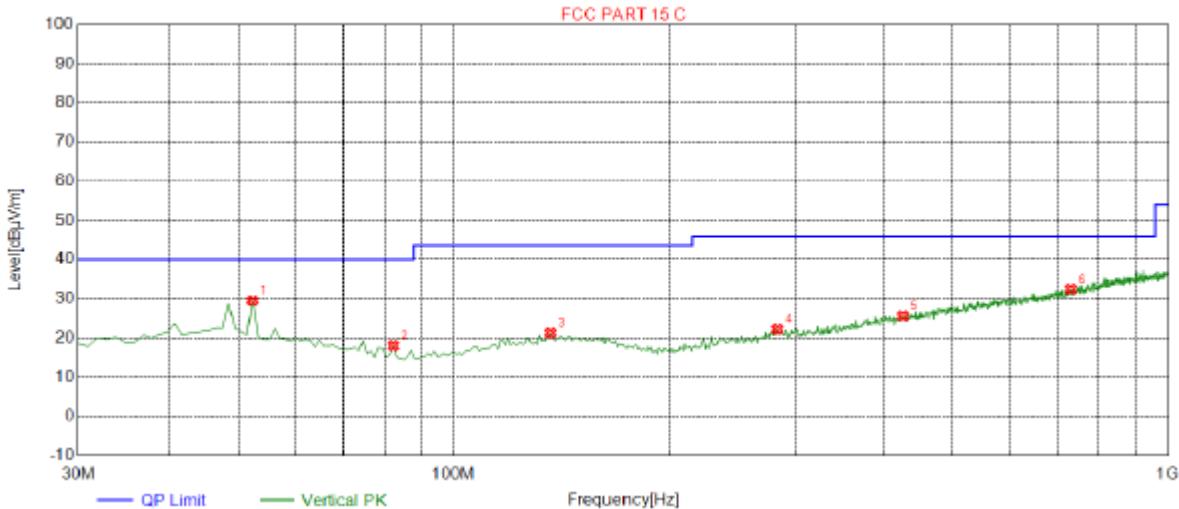
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EUT :	R/C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1	Polarization :	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	29.51	14.49	40.00	10.49	100	4	Vertical
2	82.3800	18.09	10.17	40.00	21.91	100	358	Vertical
3	136.7000	21.29	14.64	43.50	22.21	100	334	Vertical
4	284.1400	22.22	16.25	46.00	23.78	100	47	Vertical
5	425.7600	25.53	20.43	46.00	20.47	100	359	Vertical
6	731.3100	32.49	26.75	46.00	13.51	100	243	Vertical

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.



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FIELD STRENGTH OF FUNDAMENTAL

EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Modulation :	GFSK	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
2405.022	43.02	49.05	92.07	114.00	-21.93	peak
2405.022	29.51	49.05	78.56	94.00	-15.44	Avg
2440.022	42.76	49.12	91.88	114.00	-22.12	peak
2440.022	29.82	49.12	78.94	94.00	-15.06	Avg
2475.022	43.13	49.25	92.38	114.00	-21.62	peak
2475.022	31.75	49.25	81.00	94.00	-13.00	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Modulation :	GFSK	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
2405.022	40.96	49.05	90.01	114.00	-23.99	peak
2405.022	27.83	49.05	76.88	94.00	-17.12	Avg
2440.022	41.21	49.12	90.33	114.00	-23.67	peak
2440.022	28.66	49.12	77.78	94.00	-16.22	Avg
2475.022	40.87	49.25	90.12	114.00	-23.88	peak
2475.022	28.84	49.25	78.09	94.00	-15.91	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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RADIATED EMISSION ABOVE 1GHZ

EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4810.044	60.39	0.08	60.47	74.00	-13.53	peak
4810.044	48.53	0.08	48.61	54.00	-5.39	Avg
7215.066	53.49	2.21	55.70	74.00	-18.30	peak
7215.066	41.01	2.21	43.22	54.00	-10.78	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4810.044	62.64	0.08	62.72	74.00	-11.28	peak
4810.044	48.53	0.08	48.61	54.00	-5.39	Avg
7215.066	54.26	2.21	56.47	74.00	-17.53	peak
7215.066	41.80	2.21	44.01	54.00	-9.99	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4880.044	58.66	0.14	58.80	74.00	-15.20	peak
4880.044	45.51	0.14	45.65	54.00	-8.35	Avg
7320.066	53.55	2.36	55.91	74.00	-18.09	peak
7320.066	40.97	2.36	43.33	54.00	-10.67	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4880.044	60.58	0.14	60.72	74.00	-13.28	peak
4880.044	47.55	0.14	47.69	54.00	-6.31	Avg
7320.066	55.68	2.36	58.04	74.00	-15.96	peak
7320.066	42.69	2.36	45.05	54.00	-8.95	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4950.044	59.50	0.22	59.72	74.00	-14.28	peak
4950.044	46.47	0.22	46.69	54.00	-7.31	Avg
7425.066	52.08	2.64	54.72	74.00	-19.28	peak
7425.066	41.34	2.64	43.98	54.00	-10.02	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	R/ C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4950.044	60.57	0.22	60.79	74.00	-13.21	peak
4950.044	47.55	0.22	47.77	54.00	-6.23	Avg
7425.066	53.70	2.64	56.34	74.00	-17.66	peak
7425.066	41.98	2.64	44.62	54.00	-9.38	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

The GFSK modulation was the worst case and only the data of worst recorded in this report.



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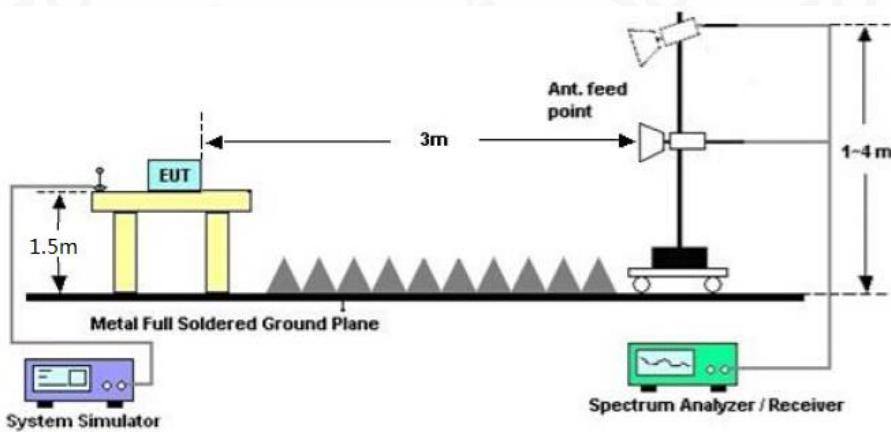
8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 7.2.

8.2 TEST SETUP

RADIATED EMISSION TEST SETUP



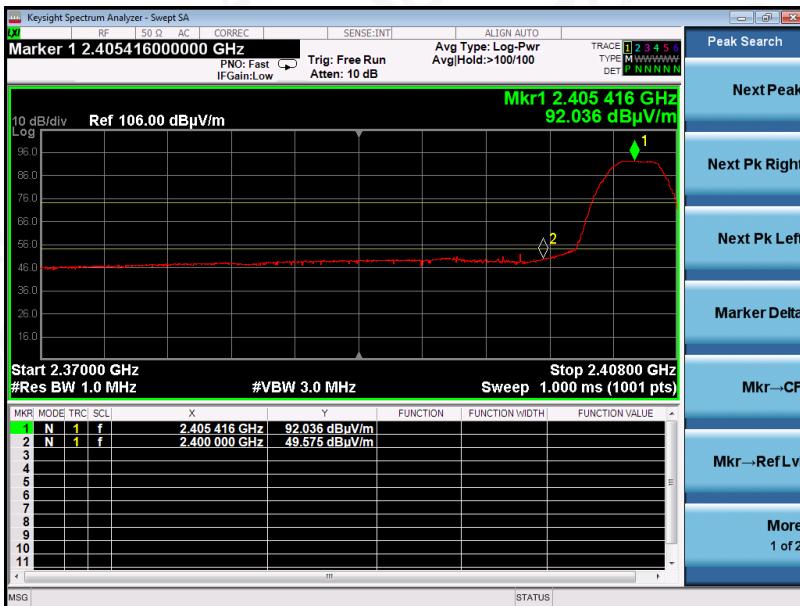
8.3 RADIATED TEST RESULT

Note:

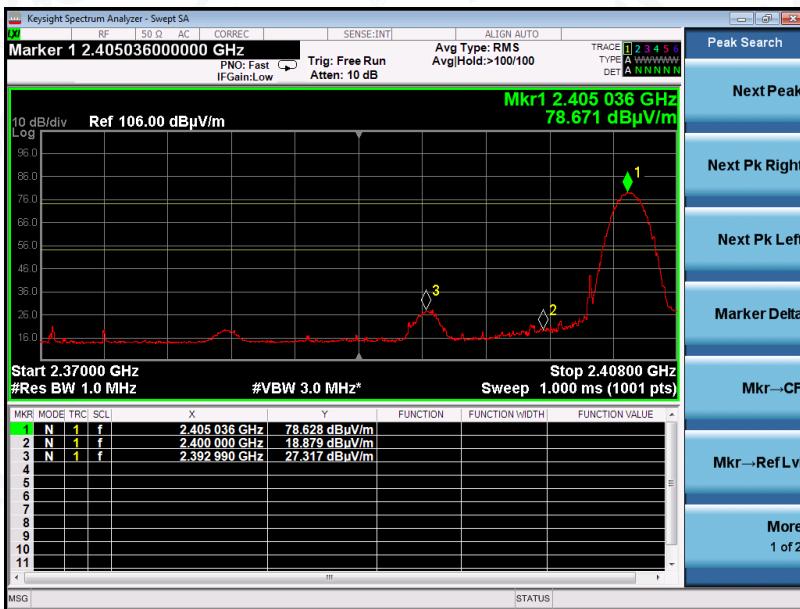
1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

EUT :	R/C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1	Polarization :	Horizontal

Peak Value



Average Value



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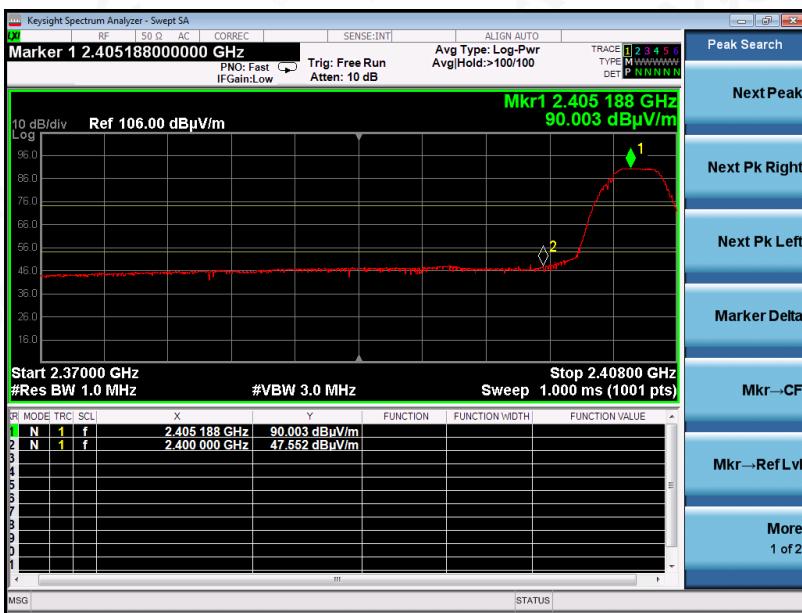
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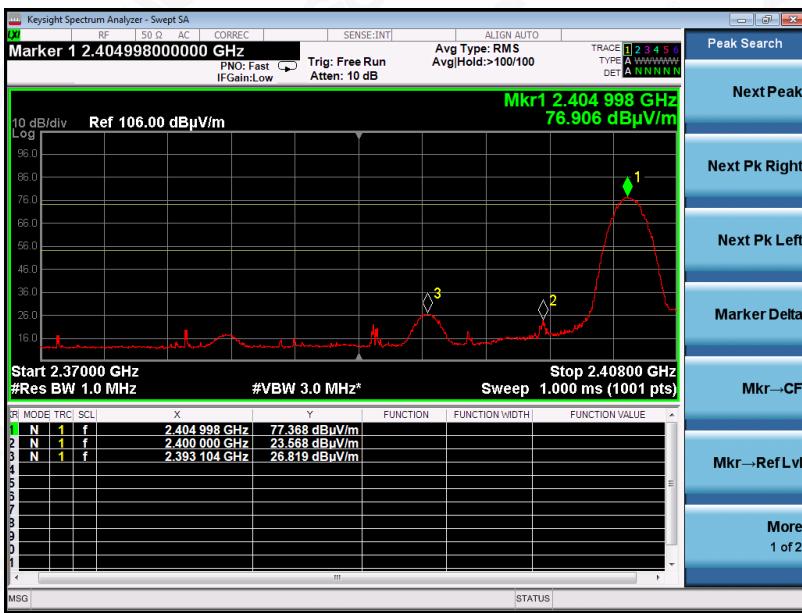
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EUT :	R/C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1	Polarization :	Vertical

Peak Value

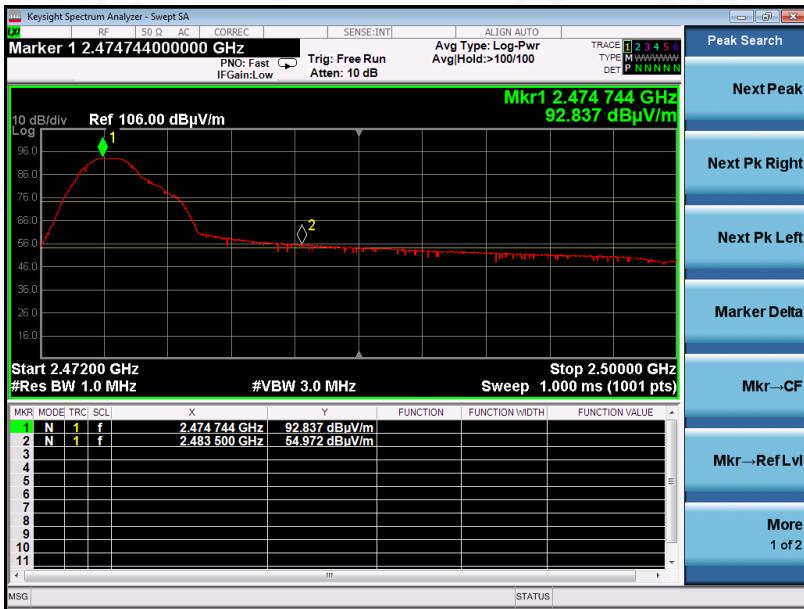


Average Value



EUT :	R/C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 3	Polarization :	Horizontal

Peak Value



Average Value



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EUT :	R/C CAR	Model Name. :	R-401S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 3	Polarization :	Vertical

Peak Value



Average Value



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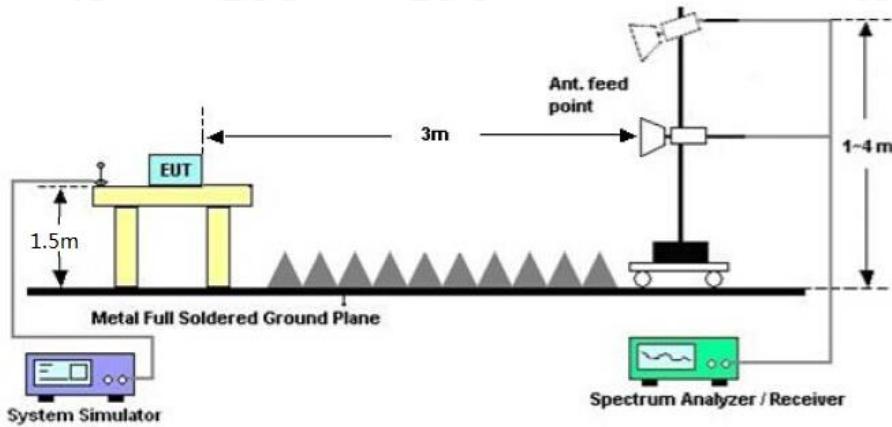
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9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW \geqslant 3 \times RBW.
3. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

Test Data (MHz)		Criteria
Low Channel	2.078	PASS
Middle Channel	1.409	PASS
High Channel	1.160	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

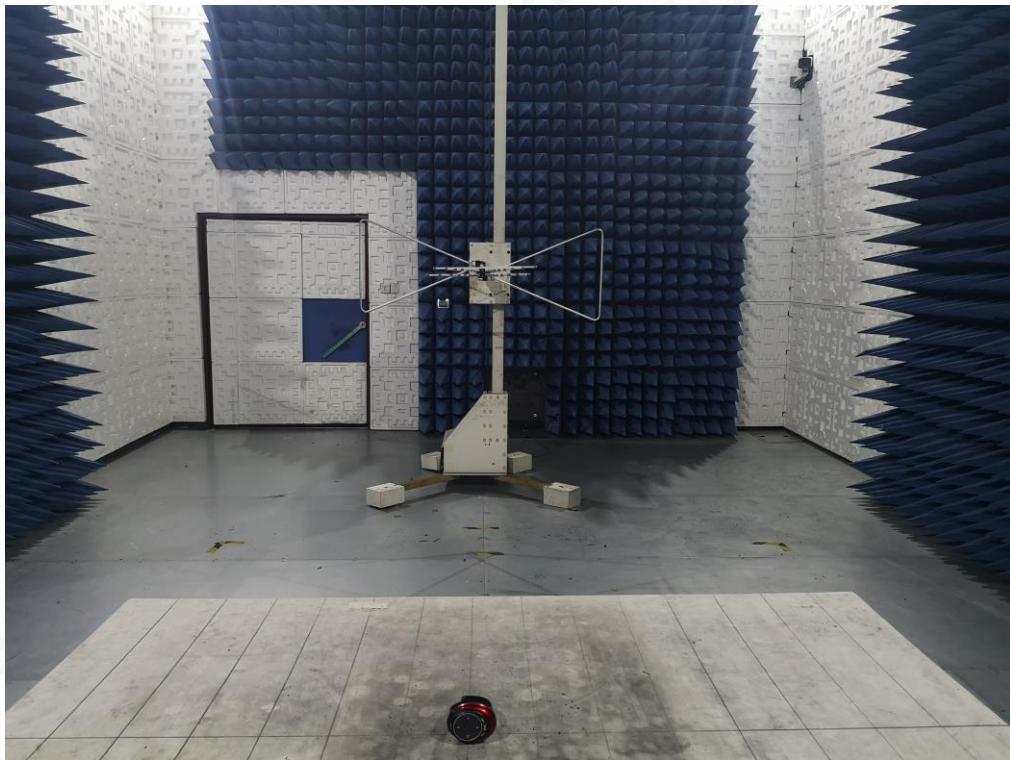


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

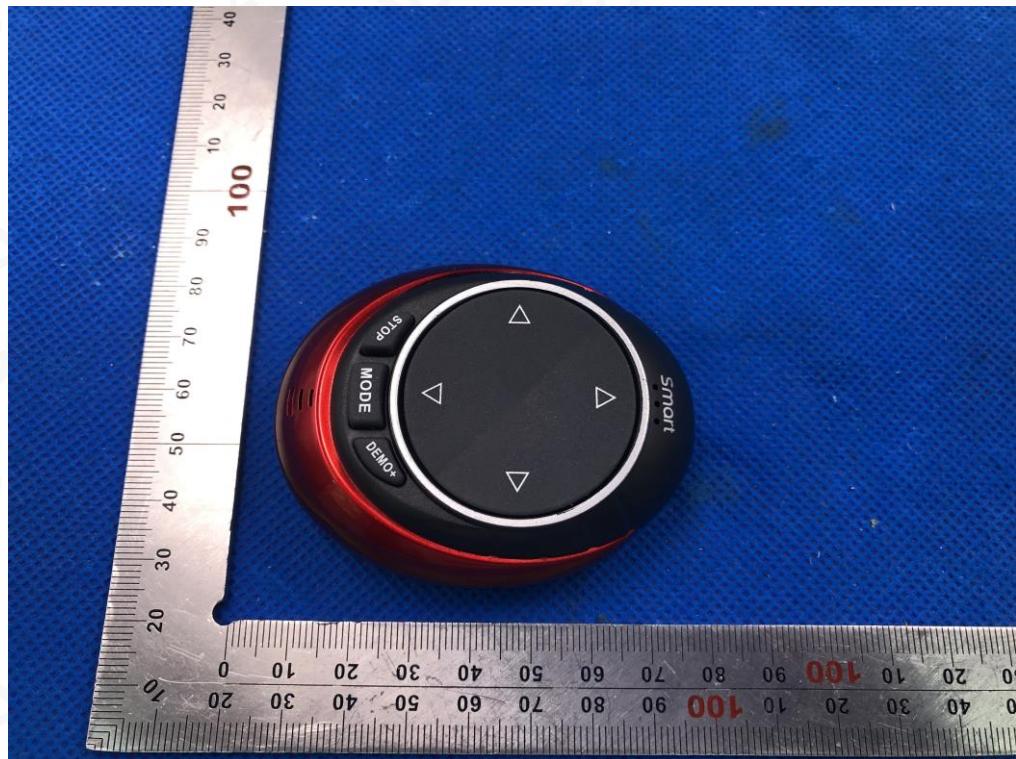


APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ**FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ****Attestation of Global Compliance**

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APPENDIX B: PHOTOGRAPHS OF THE EUT
ALL VIEW OF EUT

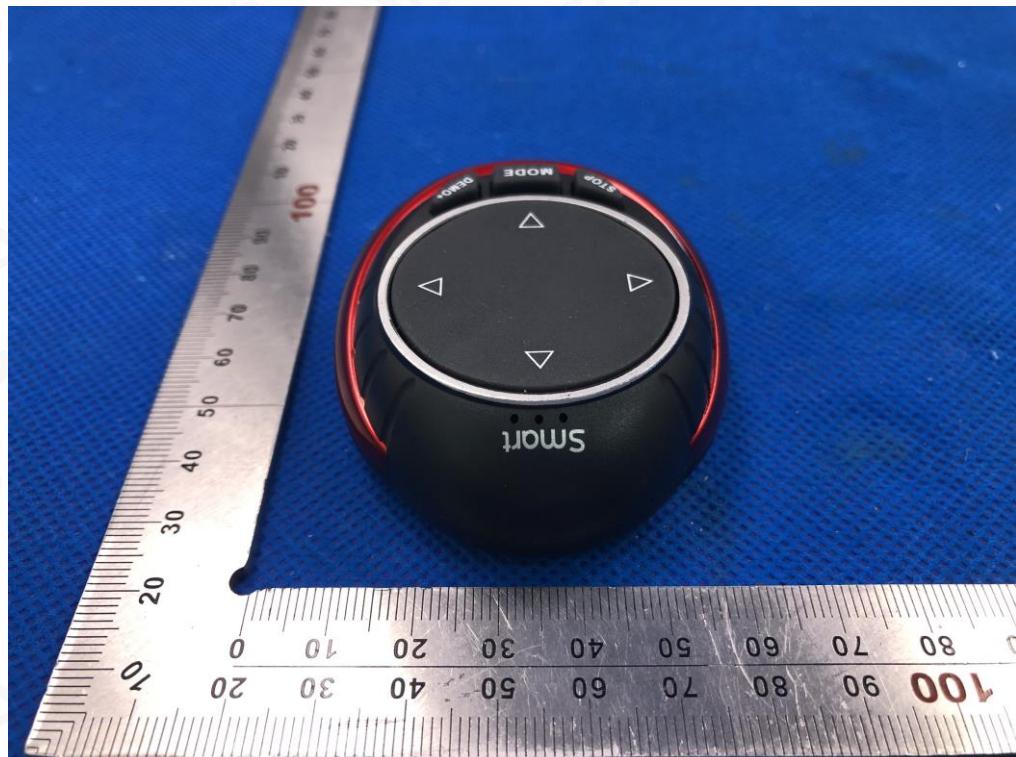
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



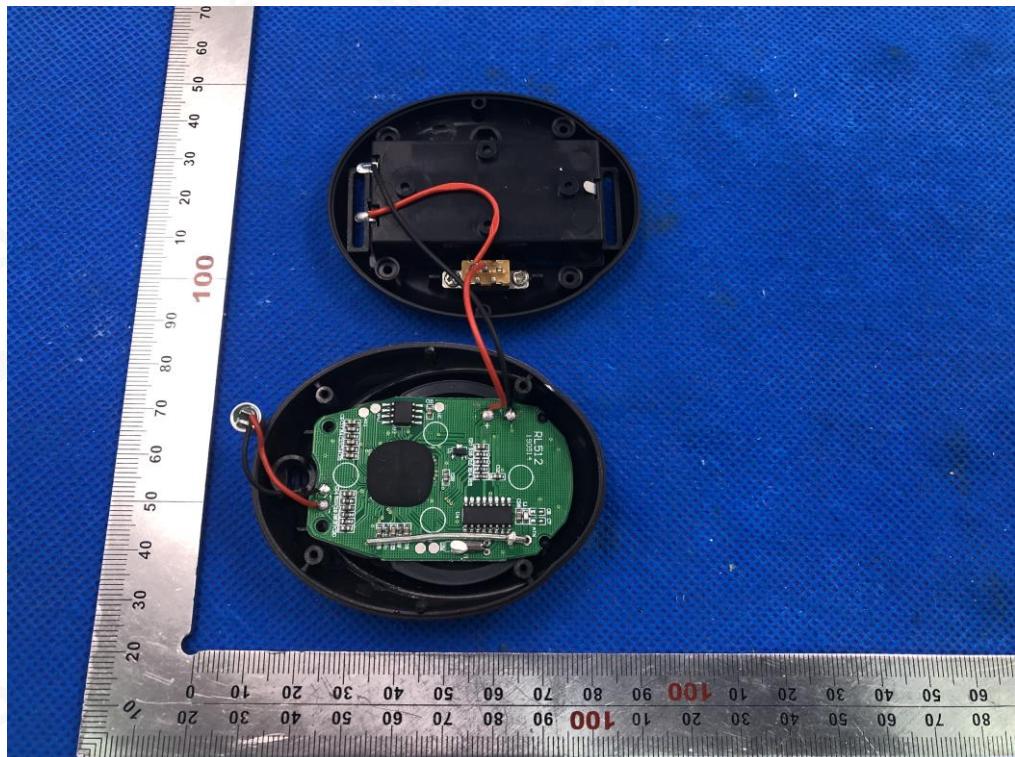
OPEN VIEW OF EUT-1



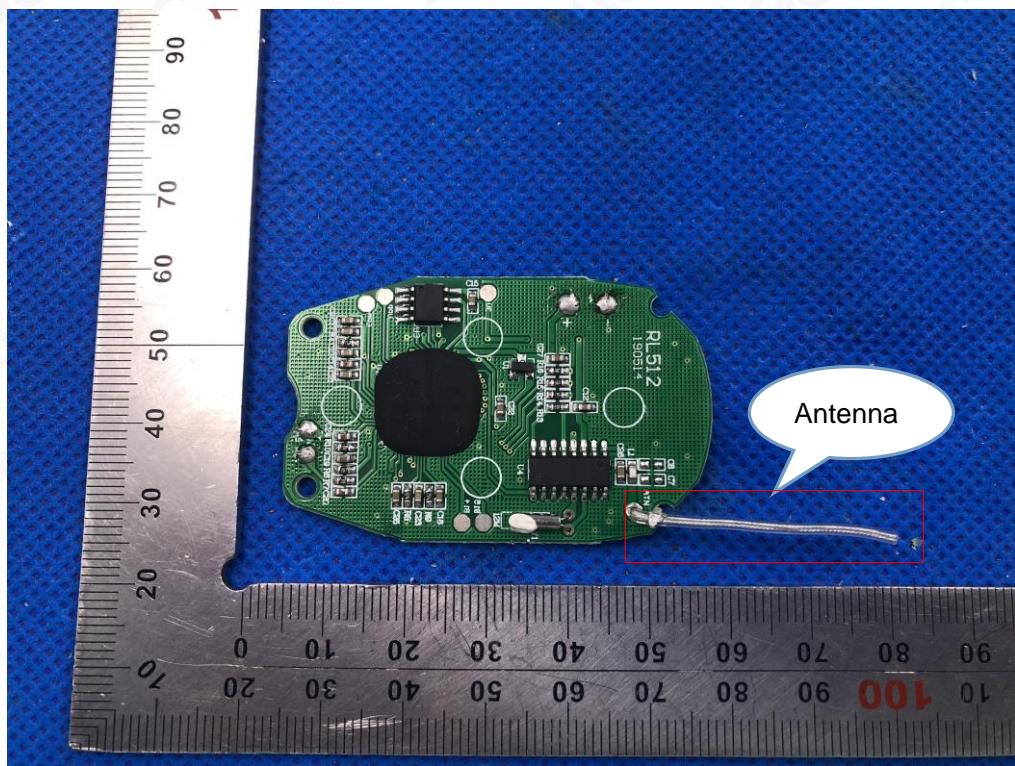
OPEN VIEW OF EUT-2



OPEN VIEW OF EUT-3



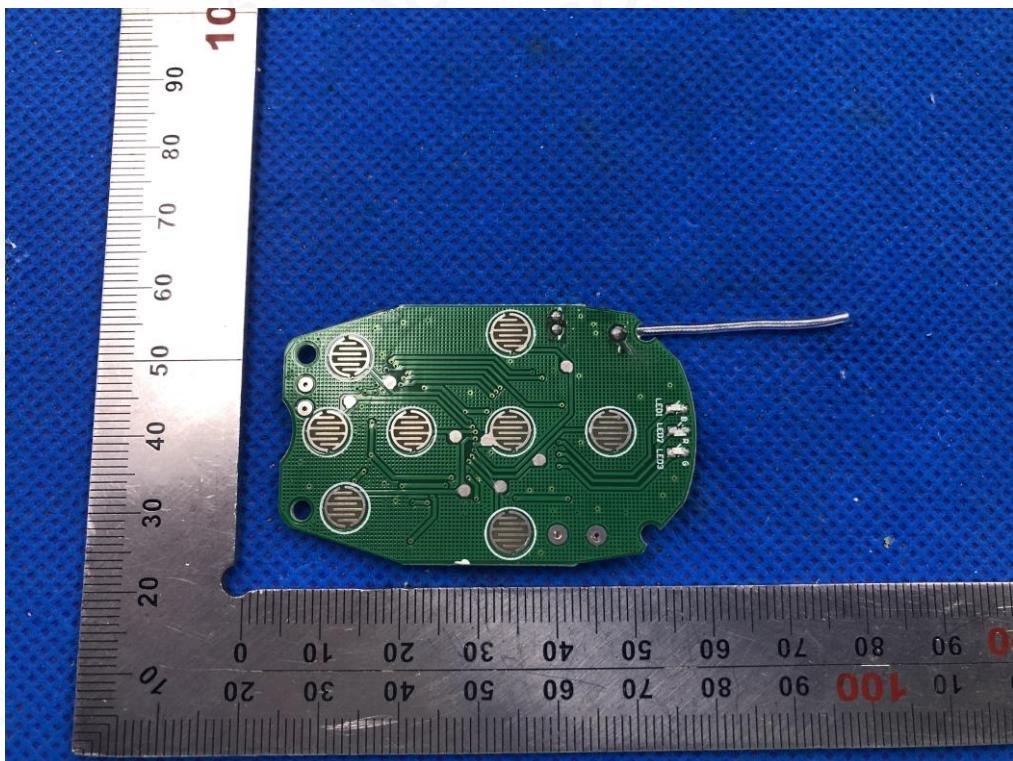
INTERNAL VIEW OF EUT-1



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INTERNAL VIEW OF EUT-2

**----END OF REPORT----**

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