

11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

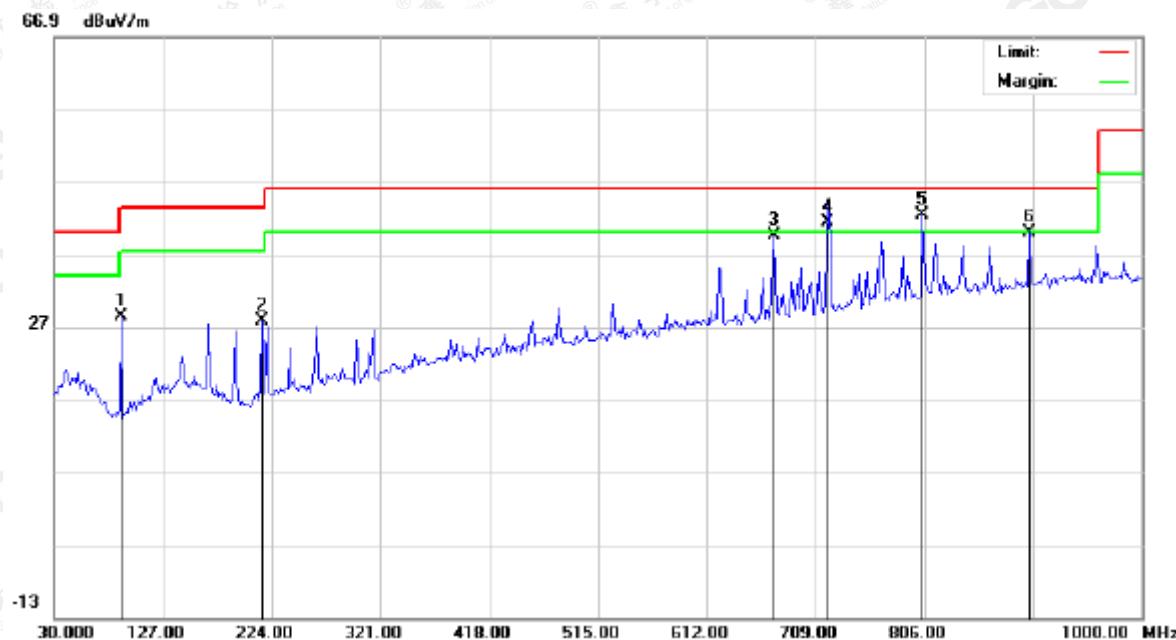
No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB				
1		89.8167	13.39	14.98	28.37	43.50	-15.13	peak			
2		215.9167	10.72	17.00	27.72	43.50	-15.78	peak			
3		671.8167	11.85	27.81	39.66	46.00	-6.34	peak			
4	!	720.3167	12.89	28.61	41.50	46.00	-4.50	QP			
5	*	804.3832	11.85	30.47	42.32	46.00	-3.68	peak			
6	!	899.7667	8.36	31.70	40.06	46.00	-5.94	peak			

RESULT: PASS

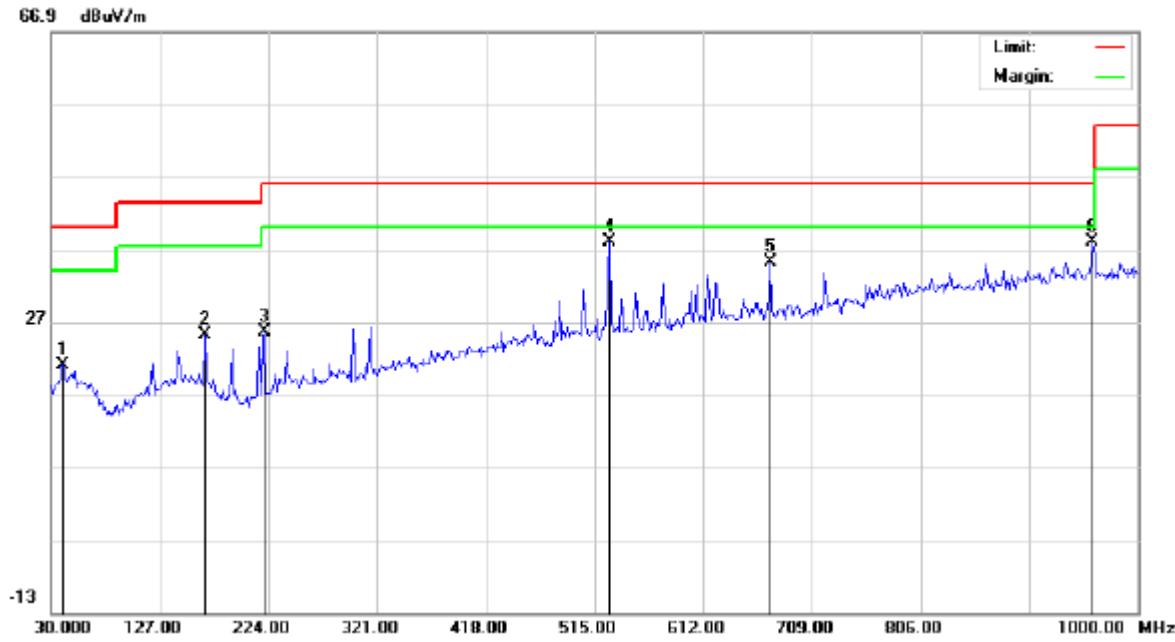
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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		41.3167	0.99	20.04	21.03	40.00	-18.97	peak			
2		167.4167	6.75	18.43	25.18	43.50	-18.32	peak			
3		220.7667	8.26	17.29	25.55	46.00	-20.45	peak			
4		527.9333	12.38	25.54	37.92	46.00	-8.08	peak			
5		671.8167	7.47	27.81	35.28	46.00	-10.72	peak			
6	*	959.5833	5.86	32.21	38.07	46.00	-7.93	peak			

RESULT: PASS

- Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
 2. The "Factor" value can be calculated automatically by software of measurement system.
 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	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)	
4824.026	42.89	3.72	46.61	74	-27.39	peak
4824.102	36.41	3.72	40.13	54	-13.87	AVG
7236.092	41.35	8.15	49.5	74	-24.5	peak
7236.116	37.24	8.15	45.39	54	-8.61	AVG

Remark:

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

EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	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)	
4824.030	44.68	3.72	48.4	74	-25.6	peak
4824.054	38.11	3.72	41.83	54	-12.17	AVG
7236.081	41.87	8.15	50.02	74	-23.98	peak
7236.023	36.51	8.15	44.66	54	-9.34	AVG

Remark:

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

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	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
4874.028	46.36	3.75	50.11	74	-23.89	peak
4874.035	41.18	3.75	44.93	54	-9.07	AVG
7311.103	40.32	8.16	48.48	74	-25.52	peak
7311.073	36.08	8.16	44.24	54	-9.76	AVG

Remark:

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

EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	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
4874.051	45.78	3.75	49.53	74	-24.47	peak
4874.079	41.26	3.75	45.01	54	-8.99	AVG
7311.087	40.37	8.16	48.53	74	-25.47	peak
7311.059	35.21	8.16	43.37	54	-10.63	AVG

Remark:

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

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	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
4924.031	42.45	3.81	46.26	74	-27.74	peak
4924.081	39.74	3.81	43.55	54	-10.45	AVG
7386.071	41.13	8.19	49.32	74	-24.68	peak
7386.029	34.67	8.19	42.86	54	-11.14	AVG

Remark:

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

EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	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
4924.075	43.24	3.81	47.05	74	-26.95	peak
4924.042	38.48	3.81	42.29	54	-11.71	AVG
7386.070	37.51	8.19	45.7	74	-28.3	peak
7386.067	35.67	8.19	43.86	54	-10.14	AVG

Remark:

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

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

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.

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12.3. TEST RESULT

EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



AV

**RESULT: PASS**

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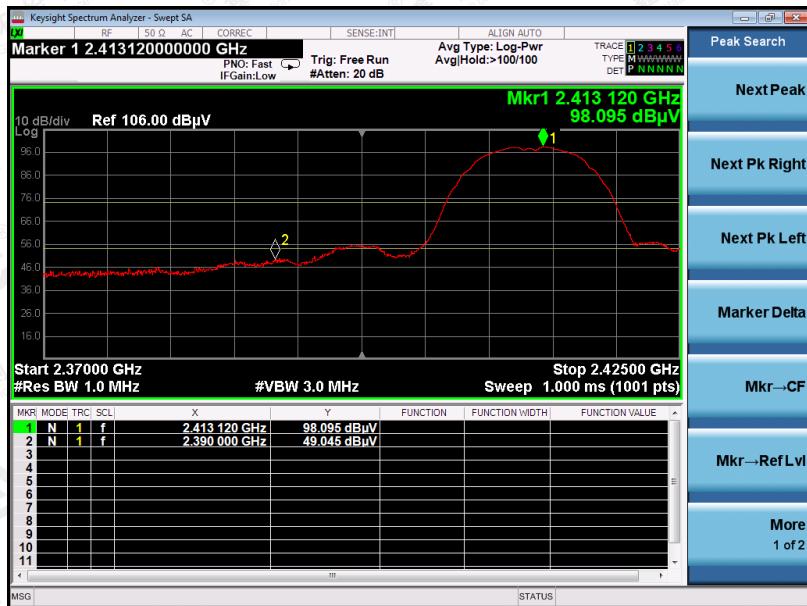


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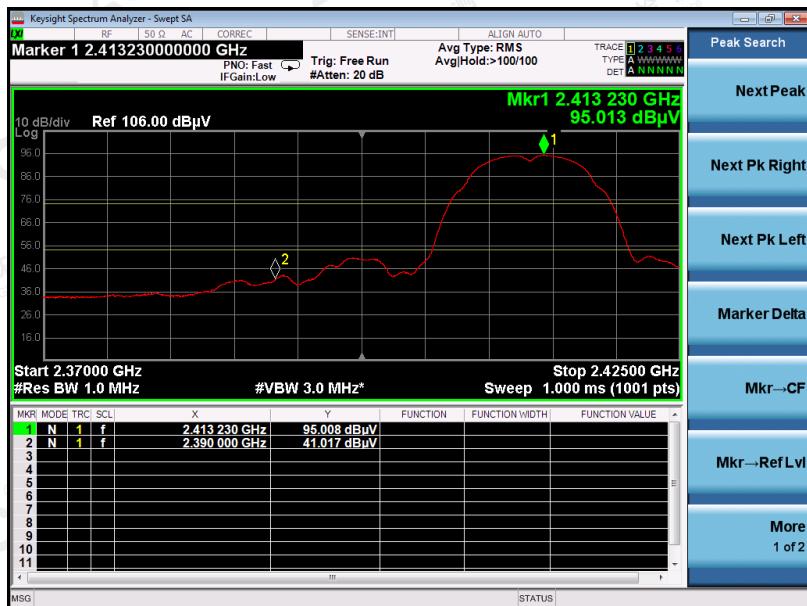
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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

PK



AV



RESULT: PASS

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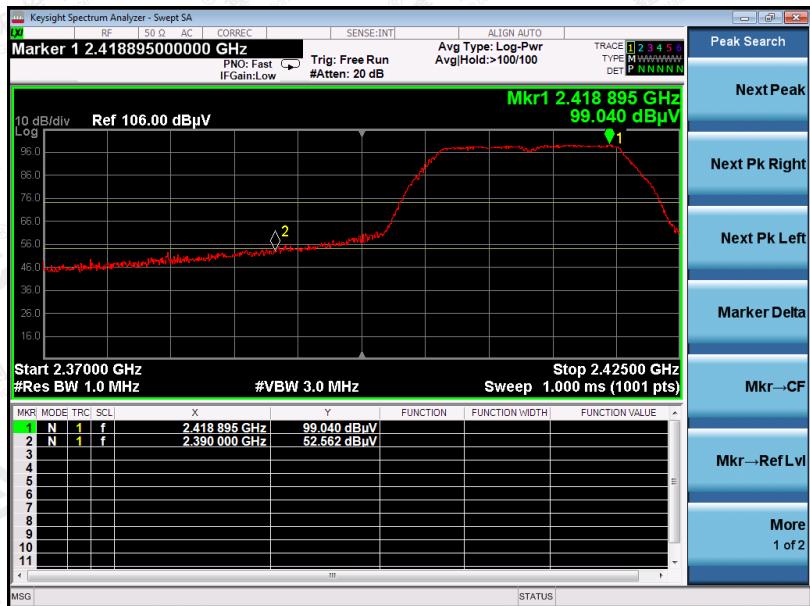


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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHz	Antenna	Horizontal

PK



AV



RESULT: PASS

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EUT	Jukibot™	Model Name	T1520
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHz	Antenna	Vertical

PK



AV



RESULT: PASS

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13. FCC LINE CONDUCTED EMISSION TEST

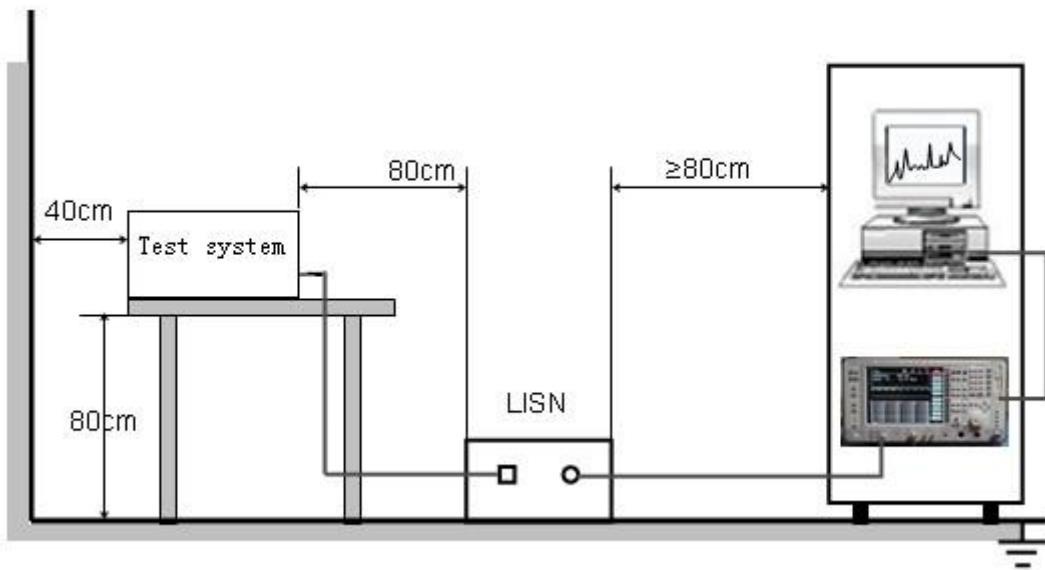
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

13.2. BLOCK DIAGRAM OF TEST SETUP



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13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

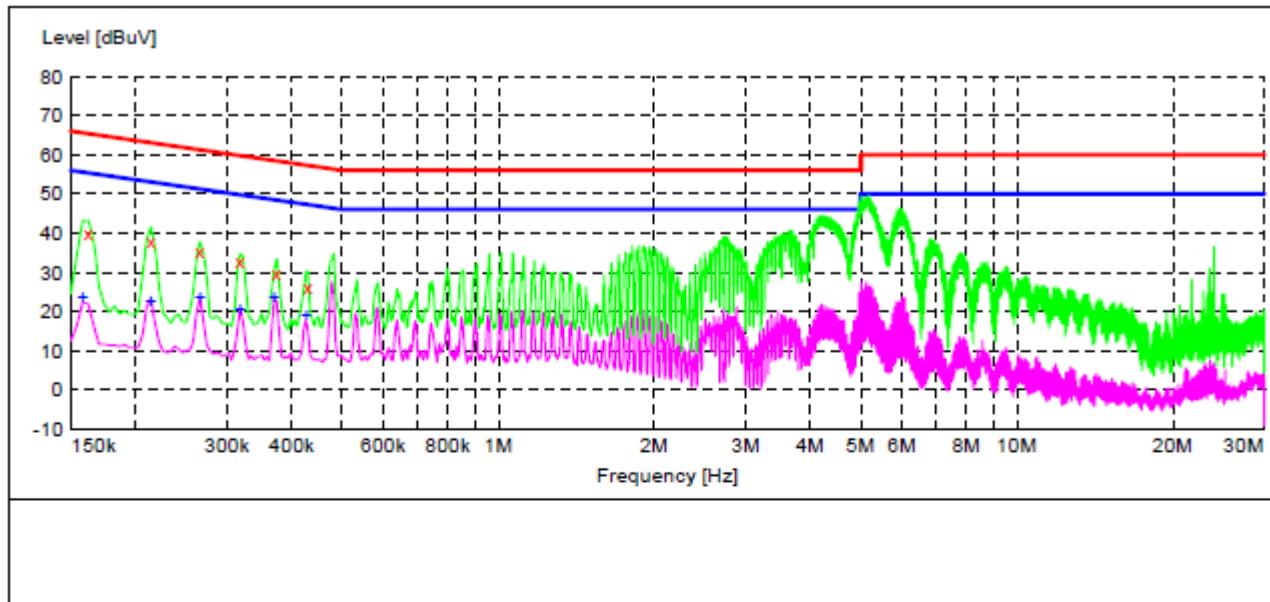
- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.10.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- (4) The EUT received DC 5V power from Adapter which received AC120V/60Hz power from a LISN.
- (5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

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13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT: "TEST_fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000	39.90	10.0	65	25.5	QP	L1	GND
0.214000	38.10	10.1	63	24.9	QP	L1	GND
0.266000	35.60	10.1	61	25.6	QP	L1	GND
0.318000	32.60	10.1	60	27.2	QP	L1	GND
0.374000	29.80	10.0	58	28.6	QP	L1	GND
0.430000	26.00	10.0	57	31.3	QP	L1	GND

MEASUREMENT RESULT: "TEST_fin2"

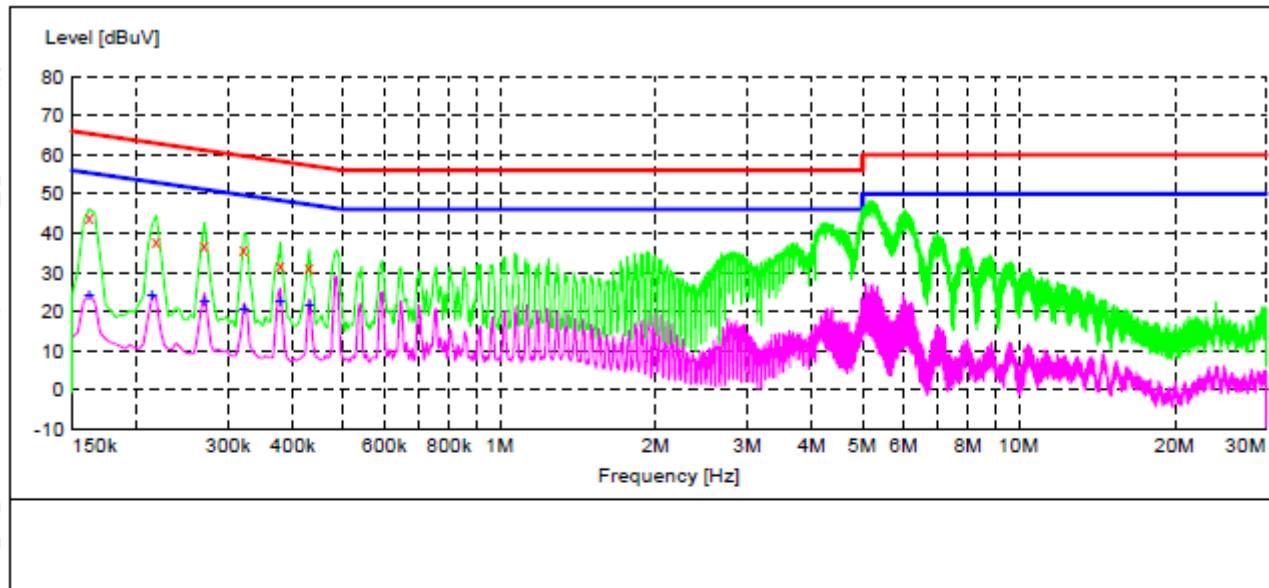
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	23.50	10.0	56	32.1	AV	L1	GND
0.214000	22.50	10.1	53	30.5	AV	L1	GND
0.266000	23.70	10.1	51	27.5	AV	L1	GND
0.318000	20.40	10.1	50	29.4	AV	L1	GND
0.370000	23.80	10.0	49	24.7	AV	L1	GND
0.426000	19.30	10.0	47	28.0	AV	L1	GND

RESULT: PASS

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "TEST_fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000	43.90	10.0	65	21.5	QP	N	GND
0.218000	38.00	10.1	63	24.9	QP	N	GND
0.270000	37.10	10.1	61	24.0	QP	N	GND
0.322000	35.90	10.1	60	23.8	QP	N	GND
0.378000	31.90	10.0	58	26.4	QP	N	GND
0.430000	31.50	10.0	57	25.8	QP	N	GND

MEASUREMENT RESULT: "TEST_fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000	24.10	10.0	55	31.3	AV	N	GND
0.214000	24.30	10.1	53	28.7	AV	N	GND
0.270000	22.60	10.1	51	28.5	AV	N	GND
0.322000	20.80	10.1	50	28.9	AV	N	GND
0.378000	22.80	10.0	48	25.5	AV	N	GND
0.430000	21.60	10.0	47	25.7	AV	N	GND

RESULT: PASS

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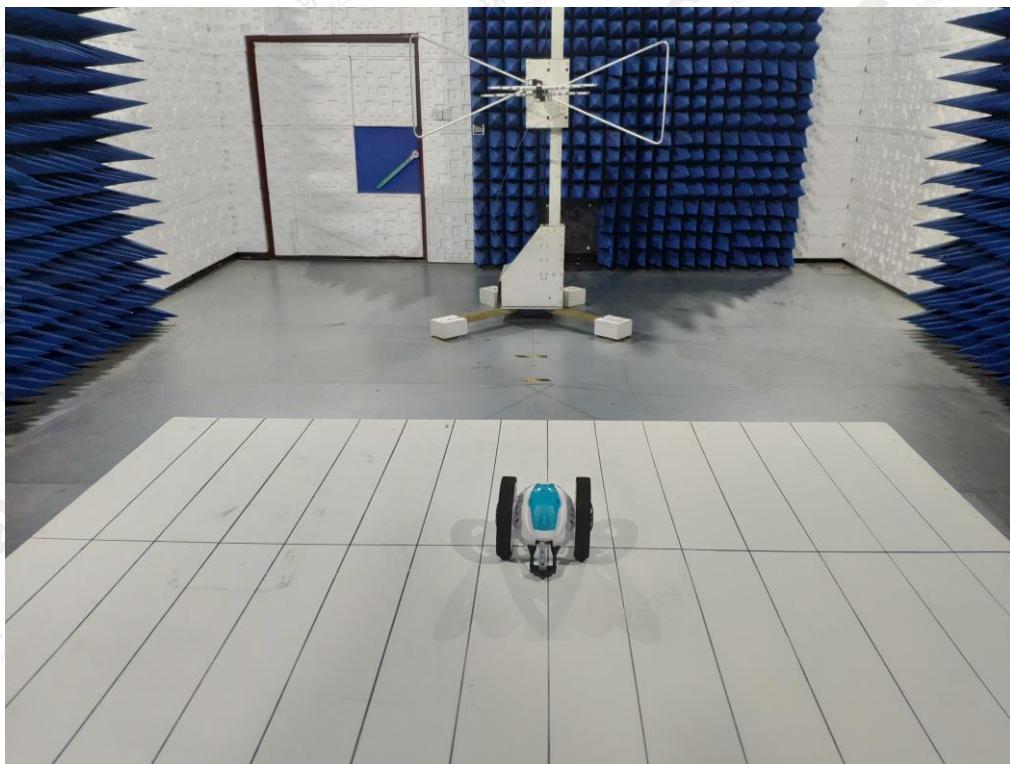


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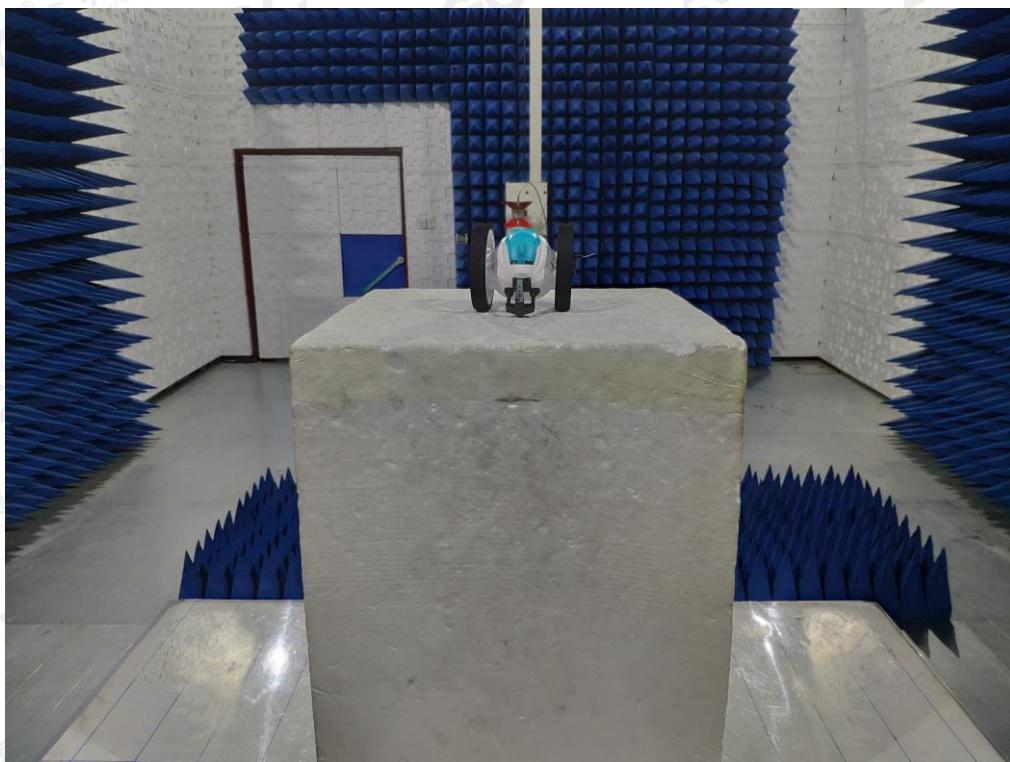
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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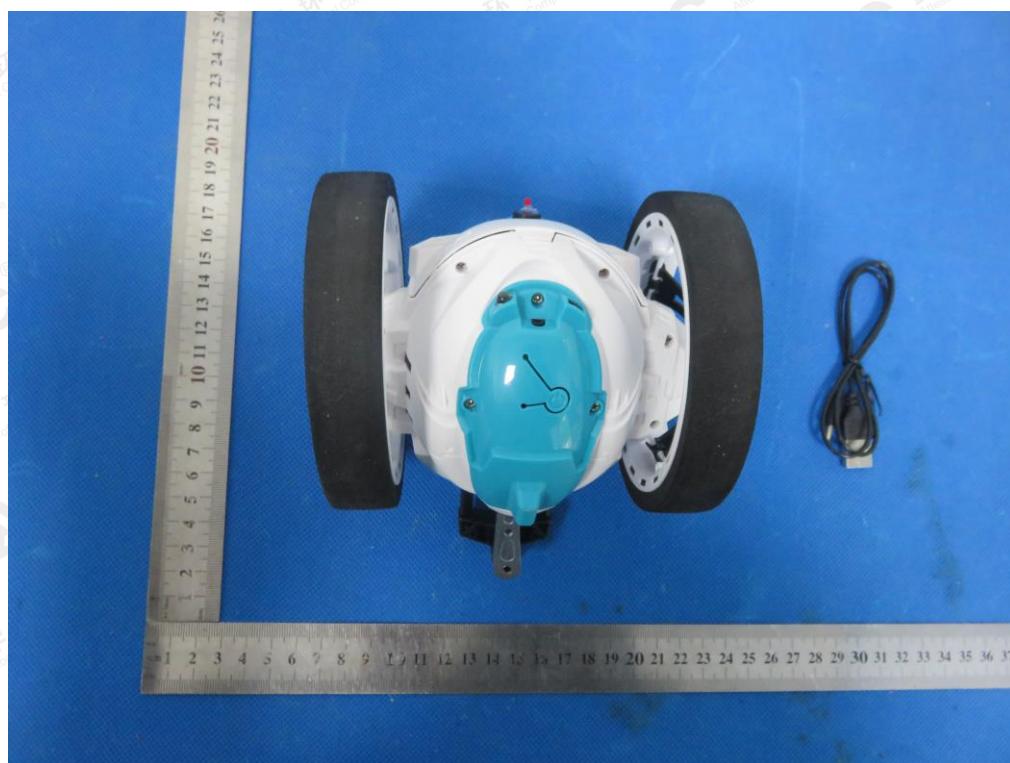
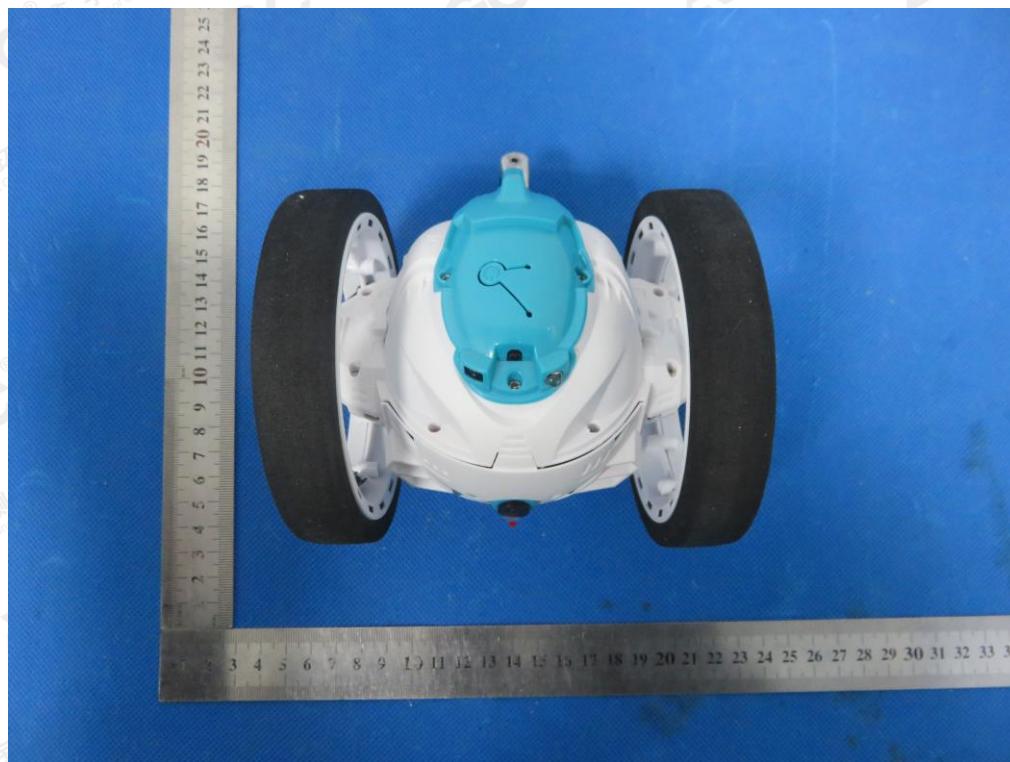
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FCC CONDUCTED EMISSION TEST SETUP



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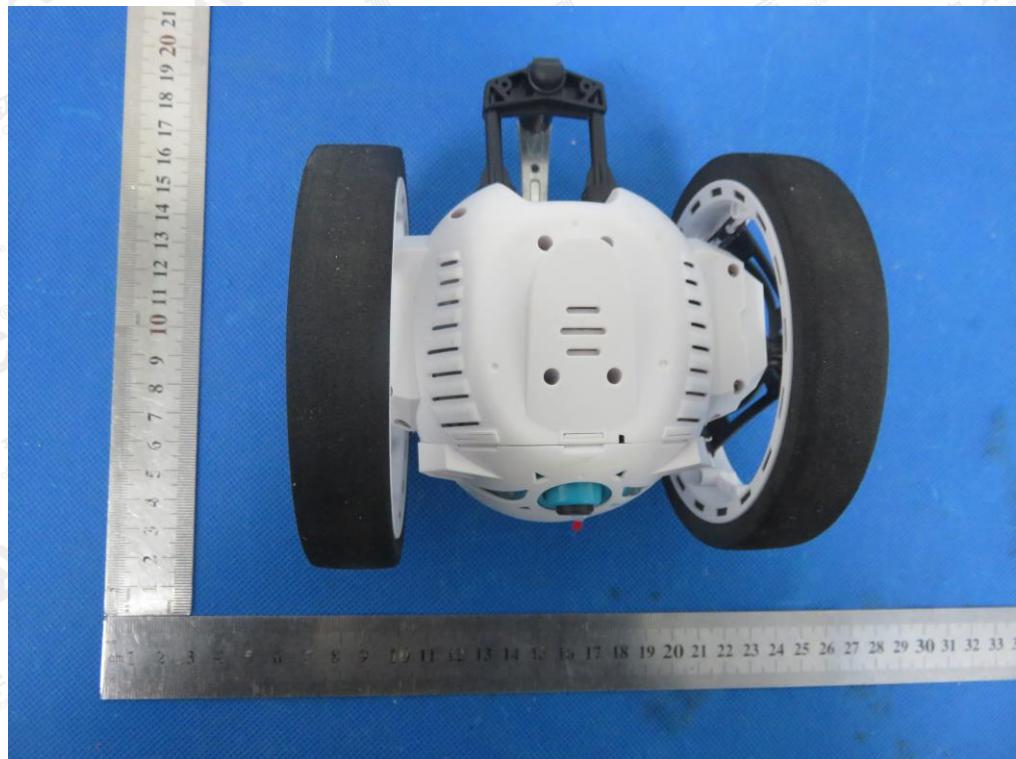


APPENDIX B: PHOTOGRAPHS OF EUT**ALL VIEW OF EUT****TOP VIEW OF EUT**

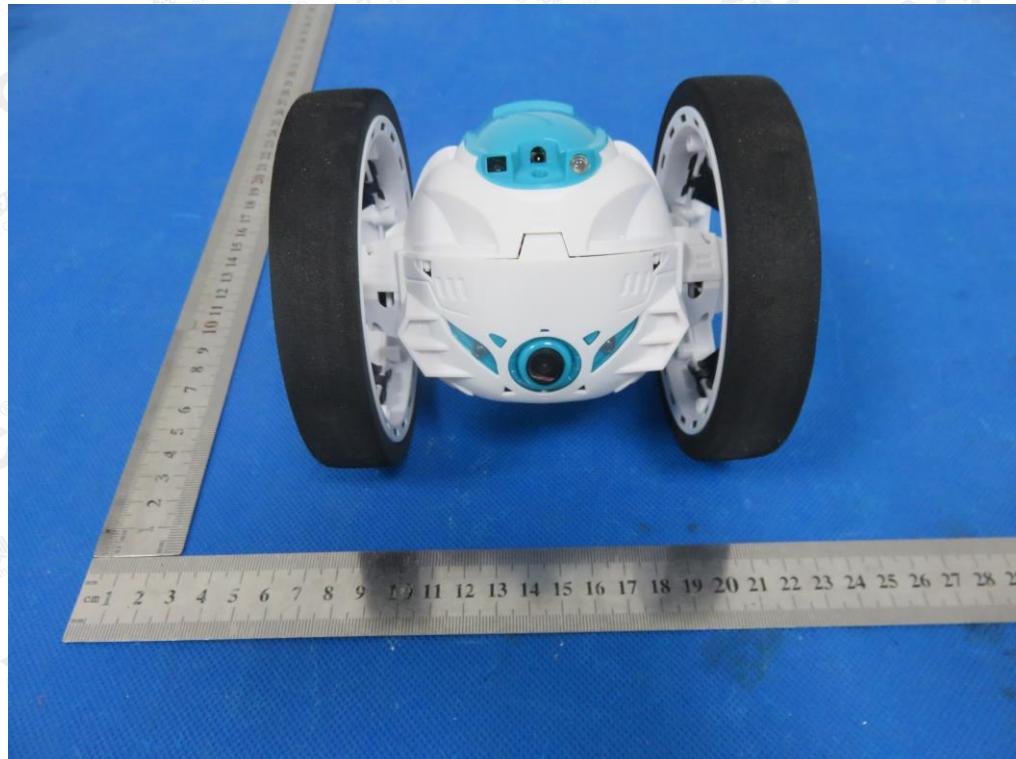
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



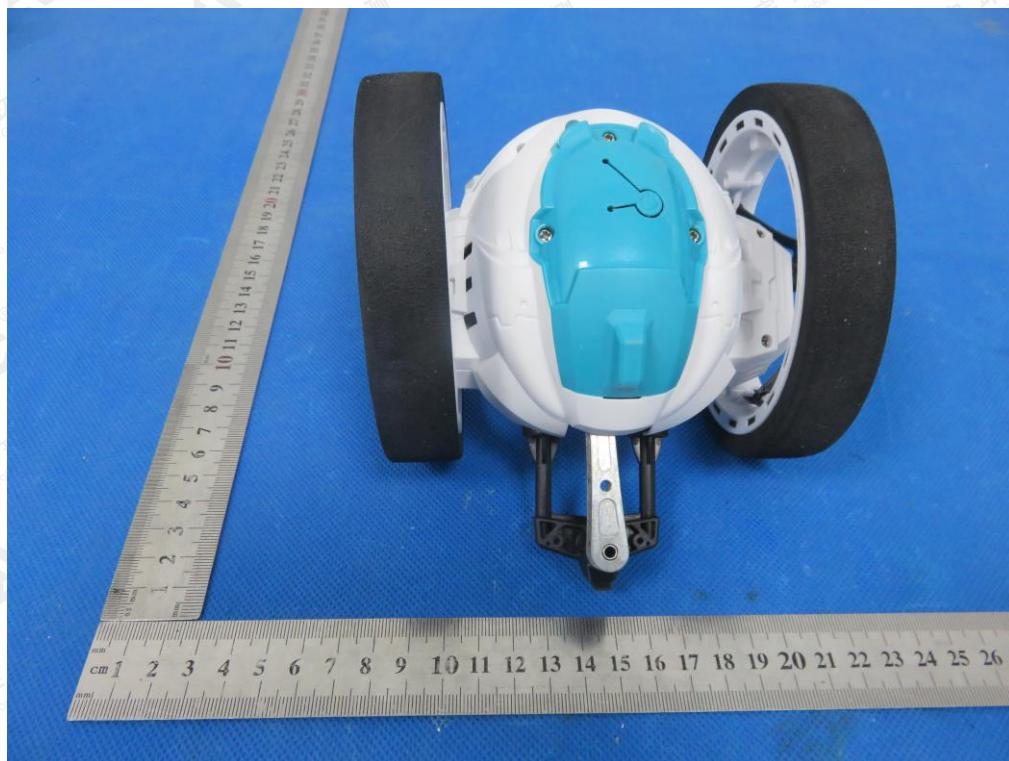
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BACK VIEW OF EUT



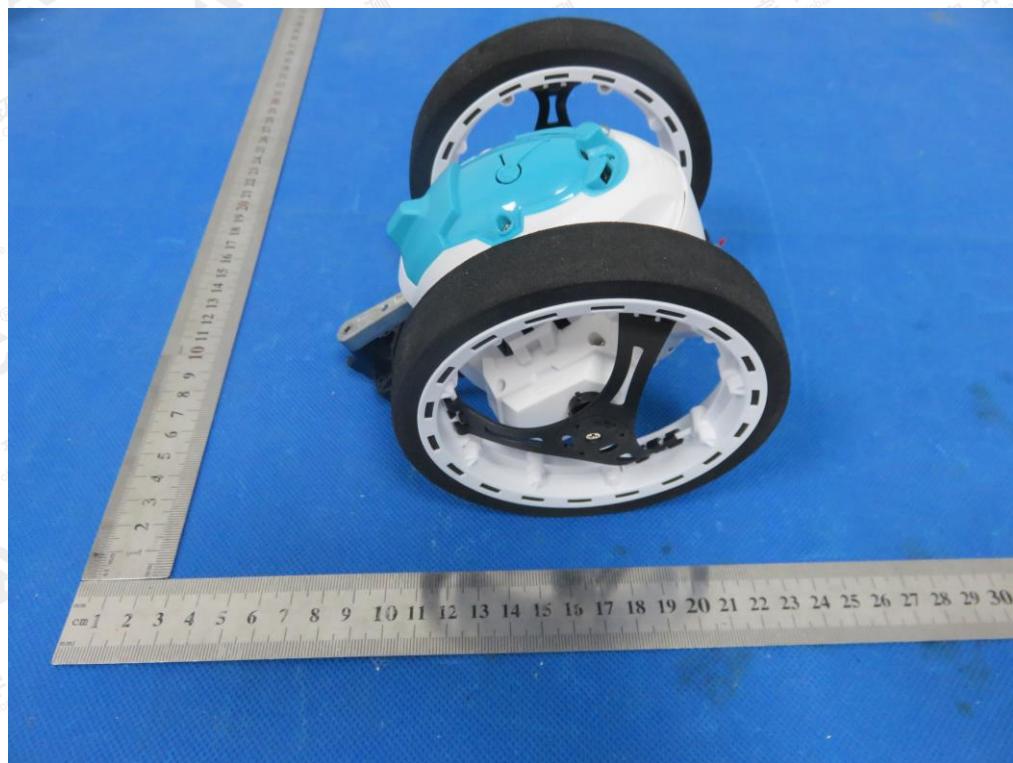
LEFT VIEW OF EUT



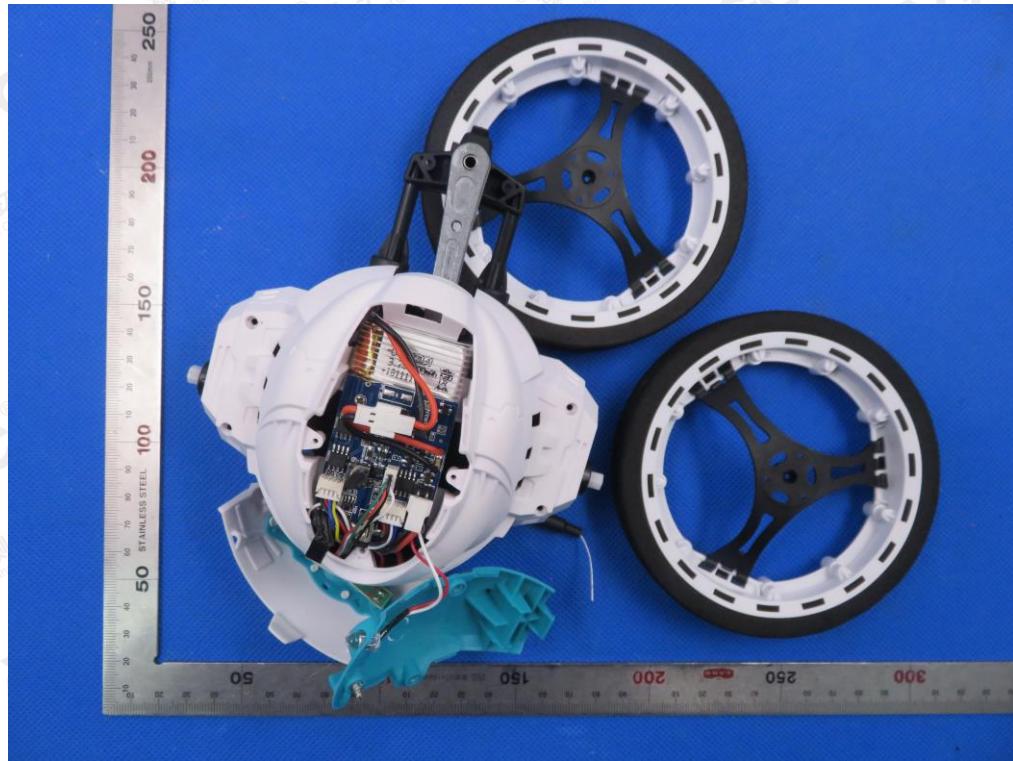
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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT



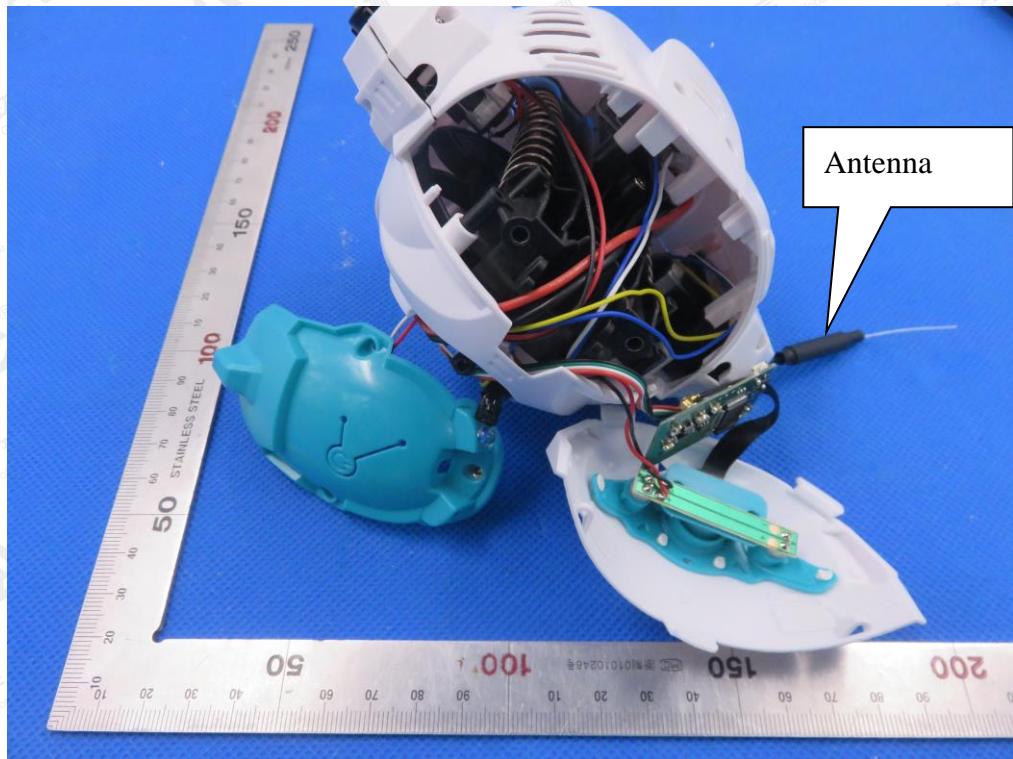
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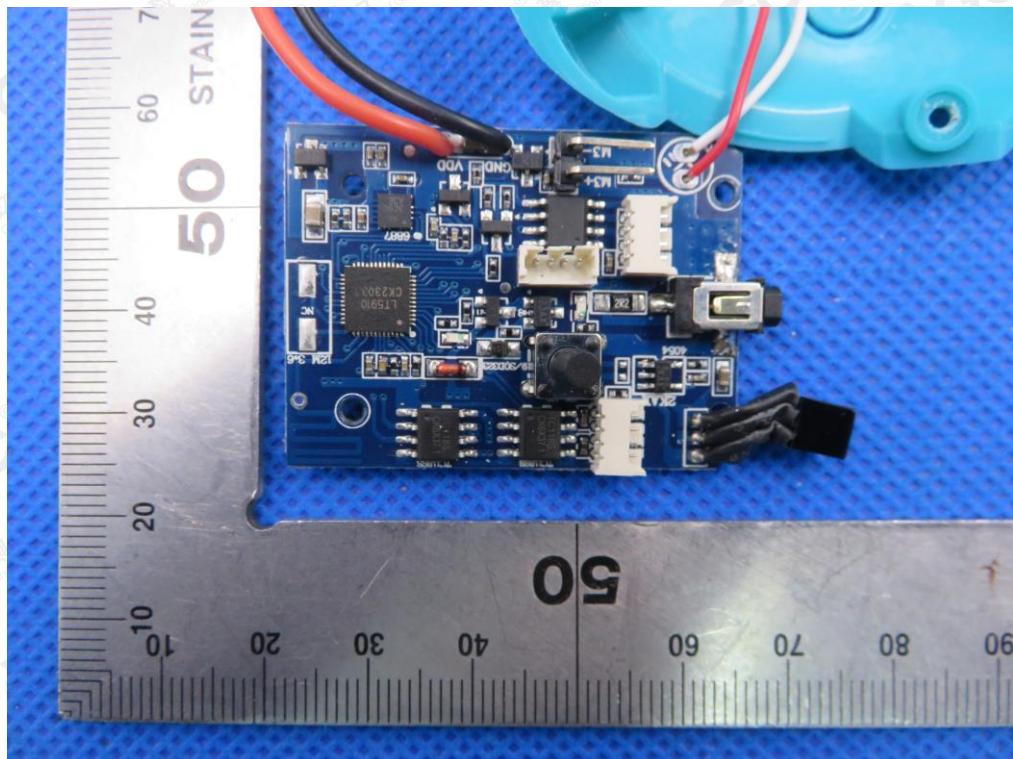
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OPEN VIEW-2 OF EUT



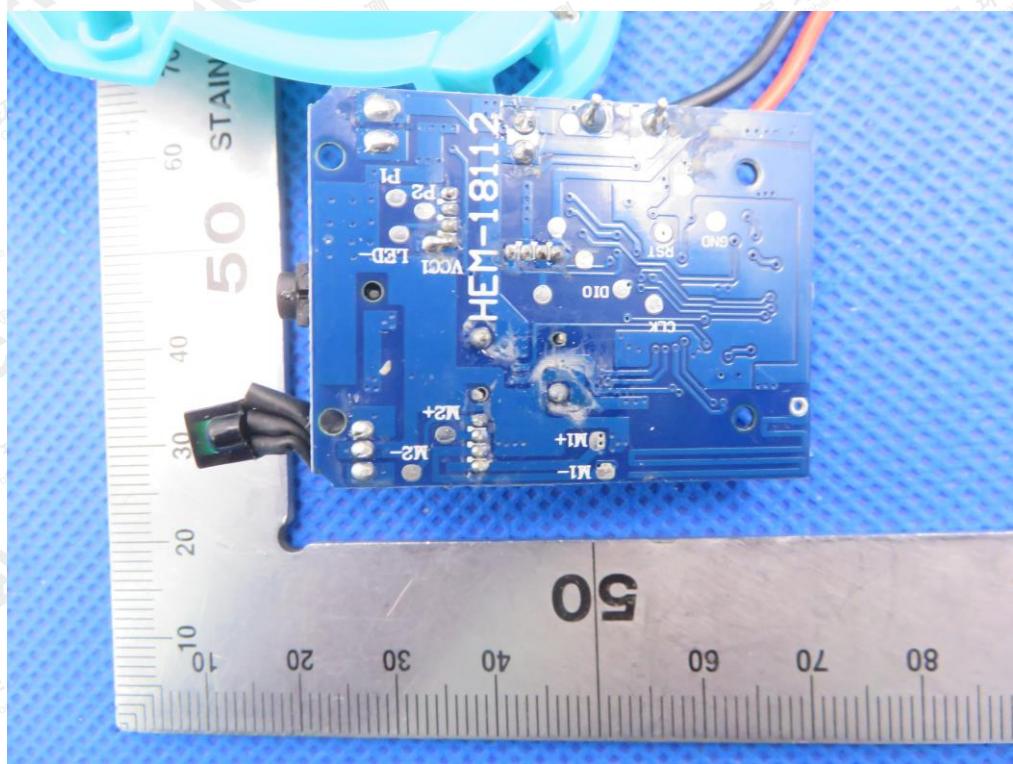
INTERNAL VIEW OF EUT-1



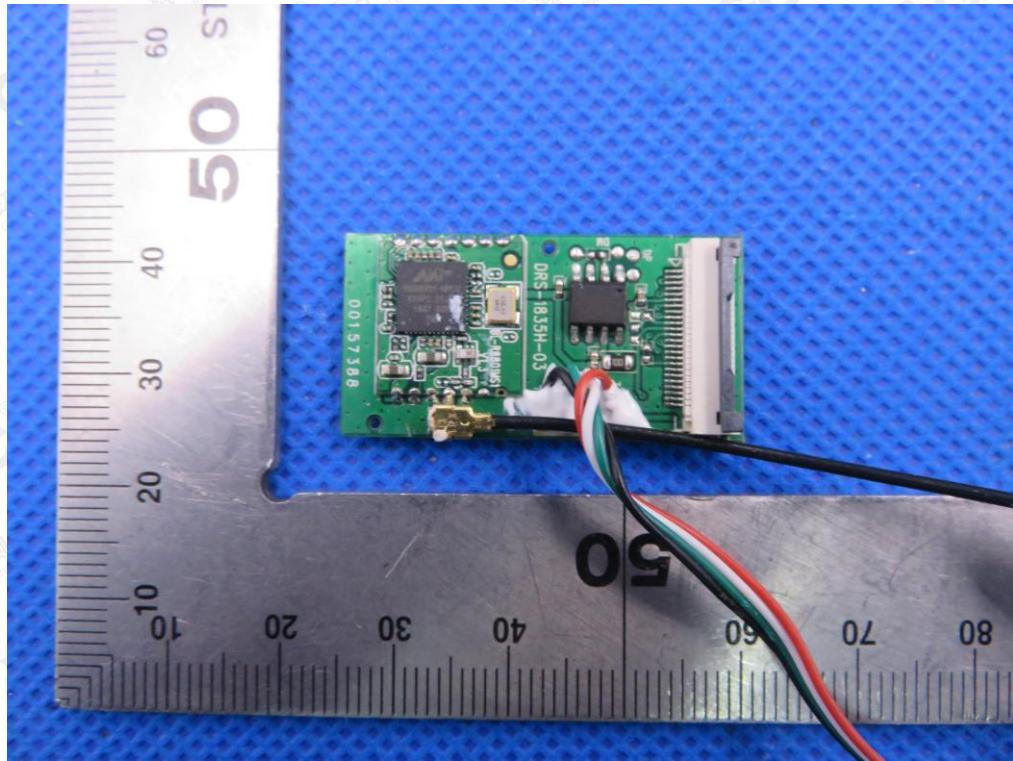
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INTERNAL VIEW OF EUT-2



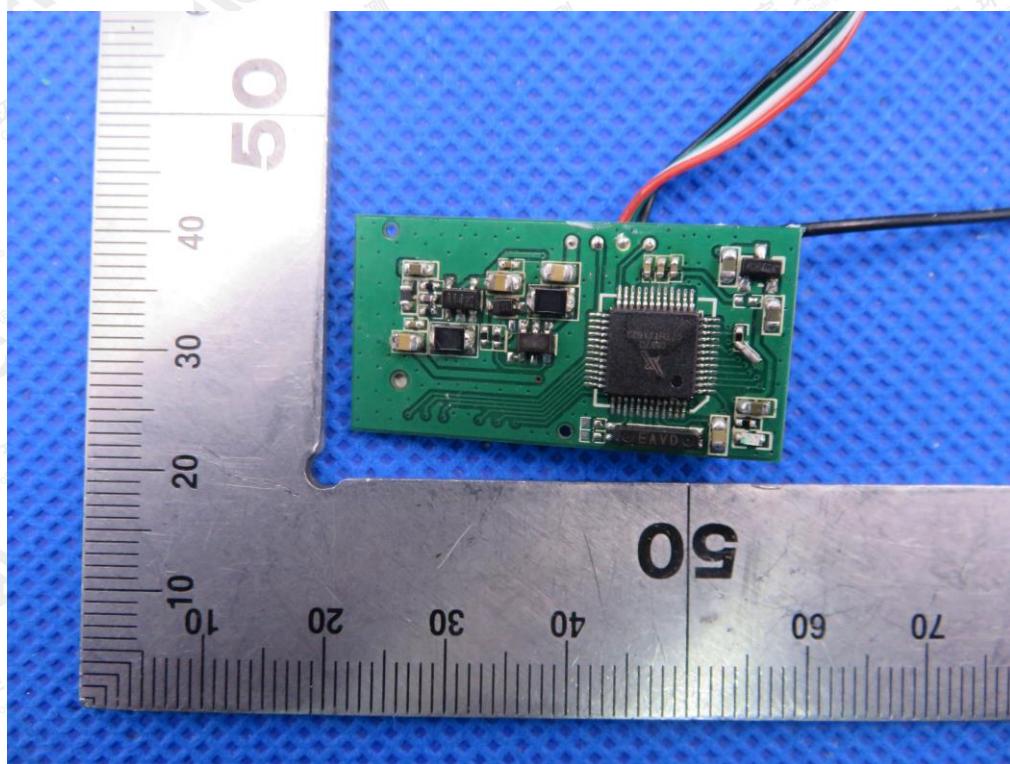
INTERNAL VIEW OF EUT-3



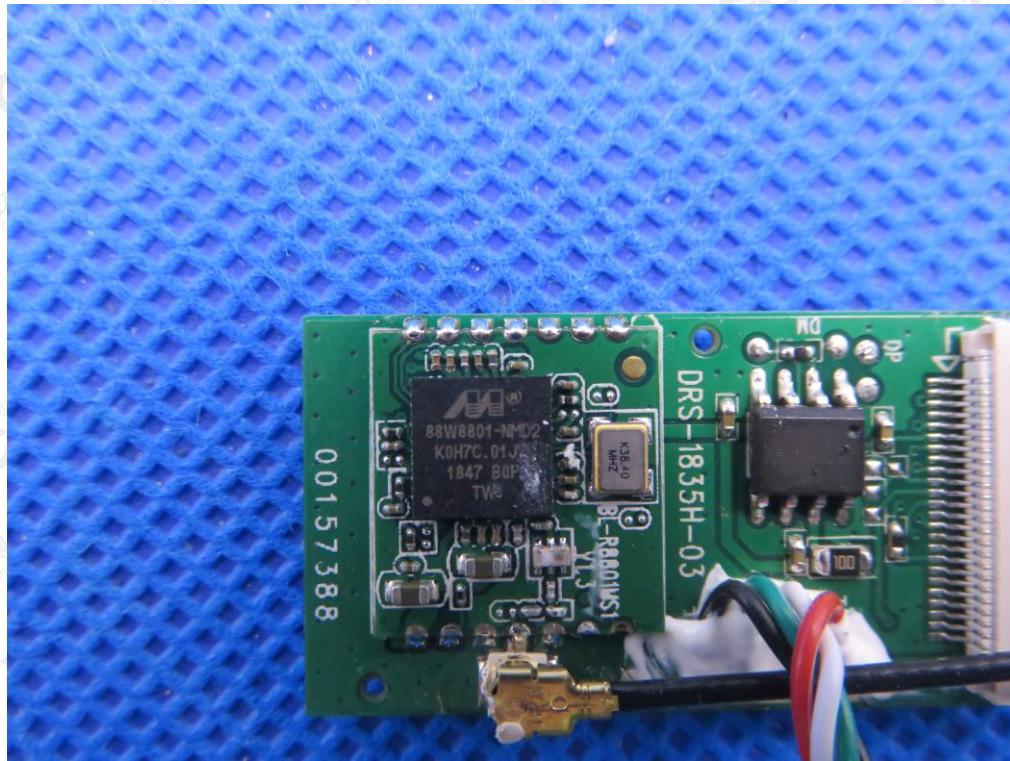
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INTERNAL VIEW OF EUT-4



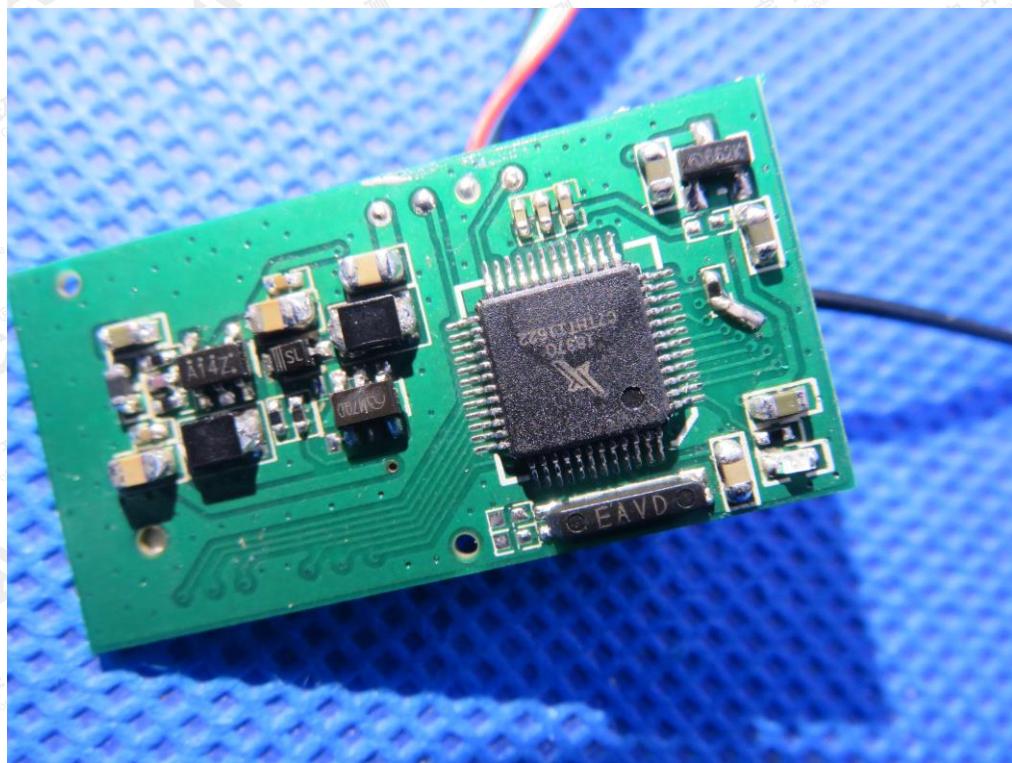
INTERNAL VIEW OF EUT-5



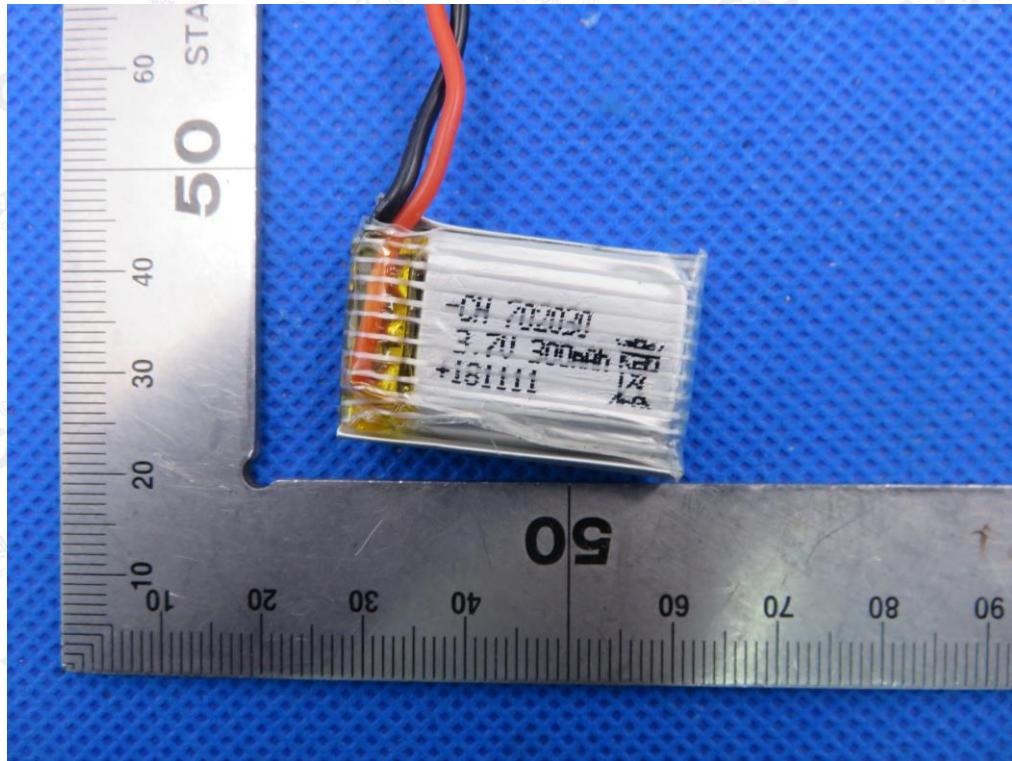
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INTERNAL VIEW OF EUT-6



VIEW OF BATTERY



----END OF REPORT----

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