



ACCREDITED Certificate # 2951.01

Test Report No.: RF190715N011

TEST REPORT

Applicant	LI XIONG SHENG TOYS FACTORY
Address	BEIWAN INDUSTRIAL AREA, LIANXIA TOWN, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

Manufacturer or Supplier	LI XIONG SHENG TOYS FACTORY			
Address	BEIWAN INDUSTRIAL AREA, LIANXIA TOWN, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA			
Product	Toy series			
Brand Name	e N/A			
Model	697A			
Additional Model & Model Difference:	695A, 695A-1, 696A, etc.; see item 3.1			
Date of tests Jul. 15, 2019 ~ Aug. 05, 2019				
the tests have been carried out according to the requirements of the following standards:				
FCC Part 15, Subpart C, Section 15.227				
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement				

Tested by Lucas Chen Project Engineer / EMC Department Approved by Breeze Jiang Senior Project Engineer / EMC Department

prene

Date: Aug. 29, 2019

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190715N011	Original release	Aug. 29, 2019



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C , SECTION 15.227(2015-10)					
STANDARD TEST TYPE AND LIMIT		RESULT	REMARK		
§15.207 (a)	AC Power Conducted Emission	N/A	EUT is powered by battery		
§15.209 §15.227	Radiated Emission	PASS	Compliant		
§15.215(c)	20dB Bandwidth Test	PASS	Compliant		
§15.203	Antenna Requirement	PASS	No antenna connector is used		

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
	9KHz ~ 30MHz	2.90dB
Radiated emissions	30MHz ~ 1GHz	3.76dB
Radiated emissions	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	4.96dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Toy series
MODEL NO.	697A
ADDITIONAL MODELS	695A, 695A-1, 696A, 696A-2, 698A, 699A, 697A-1, 698A-2, 699A-3, 700A, 701A, 700A-1, 701A-2, 702A, 703A, 702A-1, 703A-2, 704A, 704A-1, 705A, 705A-2, 706A-1, 706A-2, 706A-3, 706A-4, 707A, 708A, 709A, 707A-1, 708A-2, 709A-3, 710, 710A-1, 711, 711A-2, 712, 713, 173, 174, 175, 176, 177, 173A, 174A, 175A, 176A, 177A, 178, 179, 180, 181, 182, 178A, 179A, 180A, 181A, 182A, 686, 687, 688, 689, 690, 686A, 687A, 688A, 689A, 690A, 274A, 275A, 276A, 277A, 278A, 288A, 311, 312, 313, 314, 315, 316, 634, 635, 636, 634A, 635A, 636A, 637A, 638A, 639A, 646A, 647A, 648A, 649A, 650A, 651A, 655A, 656A, 657A, 664A, 665A, 666A, 667A, 668A, 669A, 676A, 677A, 682A, 683A, 274A-1, 275A-2, 276A-3, 277A-1, 278A-2, 288A-3, 634-1, 635-2, 636-3, 634A-1, 635A-2, 636A-3, 173A-1, 174A-2, 175A-3, 176A-4, 177A-5, 178A-1, 179A-2, 180A-3, 181A-4, 182A-5, 686-1, 687-2, 688-3, 689-4, 690-5, 686A-1, 687A-2, 688A-3, 689A-4, 690A-5, 637, 638, 637A-1, 638A-2, 639, 640, 639A-1, 640A-2, 641, 642, 641A-1, 642A-2, 691A, 692A, 691A-1, 692A-2, 693A, 693A-1, 694A, 694A-2
FCC ID	2AMW3-TL697A
NOMINAL VOLTAGE	DC 3V(1.5V*AA*2) from Battery
MODULATION TYPE	ASK
OPERATING FREQUENCY	27.145MHz
NUMBER OF CHANNEL	1
ANTENNA TYPE	Spring Antenna, with 0dBi gain
I/O PORTS	Refer to user's manual

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 190715N011) for detailed product photo
- 4. Additional models (see above table) are identical with the test model 697A except the color of appearance, shape of appearance, silk-screen and model number for trading purpose.

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3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on Y axis for radiated emission. The EUT was tested under the following mode.

FREQUENCY	TEST MODES
27.145 MHz	Transmitting

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, 15.227

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessories or support units.



4 TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/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

According to §15.227(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [μV/m]	Field Strength of Fundamental Emission [Average] [μV/m]
26.96 - 27.28	100,000 (100 dBµV/m)	10,000 (80 dBµV/m)

NOTES:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.1.2 TEST INSTRUMENTS

9KHz~30MHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 12,19	Mar. 11,20
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	May 04,19	May 03,20
Amplifier	Burgeon	BPA-530	100210	Apr. 17,19	Apr. 18,20
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

NOTES: 1. The calibration interval of the above test instruments is 12 months and the calibrations

are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 10m Chamber

3. The FCC Site Registration No. is 749762.

30MHz~1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 12,19	Mar. 11,20
Bilog Antenna	Teseq	CBL 6111D	30643	Aug.11,18	Aug. 10,19
Amplifier	Burgeon	BPA-530	100220	Apr. 17,19	Apr. 18,20
3m Semi-anechoic Chamber	ETS-LINDGREN			Feb. 10,18	Feb. 09,20
Test software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

NOTES:

1. The test was performed in 966 Chamber (a 3m Semi-anechoic chamber).

2. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested.

4. The FCC Site Registration No. is 749762.



4.1.3 TEST PROCEDURES

The basic test procedure was in accordance with ANSI C63.10 (section 6).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. (Below 1000MHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10m chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. (Below 30MHz)
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- g. 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 Y, 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.
- h. 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.

NOTES:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Margin value = Emission level Limit value.
- 5. Fundamental AV value =PK Emission +AV Factor.

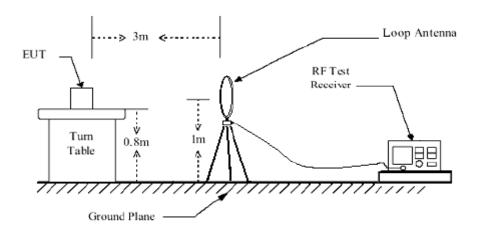
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

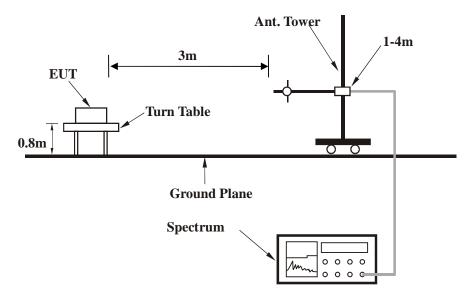


4.1.5 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

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4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of equipment.
- b. Hold down the TX of button, then the EUT was operating.
- c. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

4.1.7 TEST RESULTS

FIELD STRENGTH OF FUNDAMENTAL

ANTENNA POLARITY: 0°

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*	27.145(PK)	-9.50	78.49	68.99	100	-31.01
*	27.145(AV)	-4.44	-	64.55	80	-15.45

ANTENNA POLARITY: 90°

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
*	27.145(PK)	-9.50	78.42	68.92	100	-31.08	
*	27.145(AV)	-4.44	-	64.48	80	-15.52	

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. Margin value = Emission level Limit value.
- 4. "* ": Fundamental frequency.
- 5. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (60%) = -4.44dB, Please see page 12~13 for plotted duty.



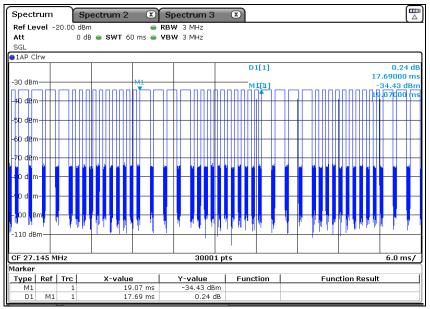
Duty Cycle:

Tp = 17.69ms

Ton = Ton1 * Number+ Ton2 * Number =0.4797*10 +1.4477*4= 10.5878ms

Duty Cycle = Ton / Tp * 100% = 10.5878/ 17.69= 60%

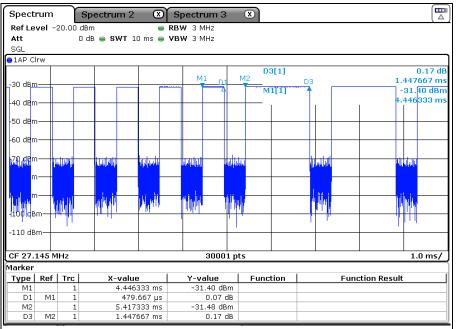
Tp=17.69ms





Ton1=0.479667ms

Ton2=1.447667ms



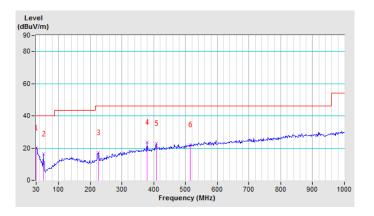


FREQUENCY RANGE 9KHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	30.00	20.24 QP	40.00	-19.76	2.00 H	145	30.34	-10.10			
2	53.32	16.36 QP	40.00	-23.64	2.00 H	173	38.40	-22.04			
3	225.87	17.28 QP	46.00	-28.72	2.00 H	180	34.16	-16.88			
4	379.76	23.79 QP	46.00	-22.21	2.00 H	137	33.63	-9.84			
5	407.74	22.97 QP	46.00	-23.03	2.00 H	240	32.22	-9.25			
6	515.00	22.18 QP	46.00	-23.82	2.00 H	175	29.40	-7.22			

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



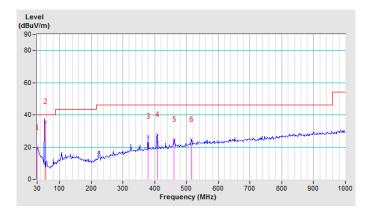


	TECTOR INCTION	Quasi-Peak (QP)
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	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	30.00	19.97 QP	40.00	-20.03	1.01 V	137	30.07	-10.10			
2	54.29	35.90 QP	40.00	-4.10	1.00 V	57	58.24	-22.34			
3	379.76	26.64 QP	46.00	-19.36	1.01 V	175	36.48	-9.84			
4	407.74	27.83 QP	46.00	-18.17	1.01 V	156	37.08	-9.25			
5	460.59	24.83 QP	46.00	-21.17	1.01 V	195	33.22	-8.39			
6	515.00	24.75 QP	46.00	-21.25	1.01 V	147	31.97	-7.22			

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.





4.2 BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

FREQUENCY	Limits
(MHz)	[MHz]
27.145	within 26.96-27.28

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Jun. 13,19	Jun. 12,20
Power Sensor	Keysight	U2021XA	MY55060018	Jun. 13,19	Jun. 12,20
Power Meter	Anritsu	ML2495A	1139001	Mar. 12,19	Mar. 11,20
Power Sensor	Anritsu	MA2411B	1531155	Mar. 12,19	Mar. 11,20
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 17, 18	Oct.16, 19
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Nov.15,18	Nov. 14,19
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 09,18	Nov. 08,19
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Aug. 02,19	Aug. 01,20
Signal Generator	Agilent	N5183A	MY50140980	Dec. 07,18	Dec. 06,19
Agile Signal Generator	Agilent	8645A	Agilent	Oct.27, 18	Oct.26, 19
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 12,19	Mar. 11,20
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec. 07, 18	Dec. 06, 19
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Jul.06, 19	Jul. 05, 20
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

NOTES:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



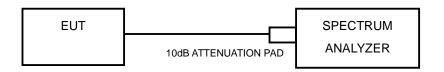
4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6



4.2.7 TEST RESULTS

Lower & Upper Test Frequency Point (MHz)	Test Frequency (MHz)	P/F	
Lower	27.12199	PASS	
Upper	27.16931	PASS	

Test Data:

Spect			pectrum	2 🕱	Spectrum 3	x x					E
		10.00 dB		2 0	RBW 10 kHz						[]
	vei				-						
Att		10 c	IB SWT	190.1 µs	● VBW 30 kHz	Mode	Auto FFT				
😑 1Pk Mi	ax										
							M1[1]				-25.86 dBm
-20 dBm										27.1	45430 MHz
-20 ubn	'				- I - I	11	ndB				20.00 dB
-30 dBm							Bw			47.320	000000 kHz
-30 dbii	'					$ \rangle$	Q factor				573.6
-40 dBm											
-40 UBII					T1		T2				
-50 dBm	.										
-50 UBII	1										
60 JD				_							
-60 dBm											
-70 dBm											
-70 UBII											
00.10											
-80 dBm)										
-90 dBm											
-100 dB	m										
CF 27.3	14543	3 MHz	1		691	pts	1	1		Span	300.0 kHz
Marker						•					
Type	Ref	Trc	X-va	lue l	Y-value	E.	nction		Func	tion Result	t
M1		1		4543 MHz	-25.86 d		ndB down			47.32 kHz	
T1		1		2199 MHz	-45.78 d		ndB				20.00 dB
T2		1	27.1	6931 MHz	-45.83 d		Q factor				573.6

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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---