FCC PART 15B TEST REPORT
for
PLAY TEK LIMITED

Product : 1:22 MONZOO MONSTER
Model No. : 0881, 0820, 0821, 0822, 0823, 0824, 0825, 0826, 0827, 0828, 0829, 0830, 0831
FCC ID : 2AI54-08810930

Prepared for	:	PLAY TEK LIMITED
Address	:	UNIT 8, 12/F , TOWER A, NEW MANDARIN PLAZA, 14 SCIENCE MUSEUM ROAD,TSIM SHA TSUI EAST, KOWLOON HONG KONG
Prepared by	:	Shenzhen Accurate Technology Co., Ltd.
Address	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China Tel: +86-755-26503290 Fax: +86-755-26503396

Report No.	:	SZ3211012-52310E-RF-00
Date of Test	:	Oct.22, 2021
Date of Report	:	Oct. 29, 2021

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Test Report

Test Report Declaration

Applicant	:	PLAY TEK LIMITED
Manufacturer	:	PLAY TEK LIMITED
Product	:	1:22 MONZOO MONSTER
Model No.	:	0881, 0820, 0821, 0822, 0823, 0824, 0825, 0826, 0827, 0828, 0829, 0830, 0831
Trade Mark	:	N/A

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B
ANSI C63.4: 2014

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : Oct. 22, 2021
Date of Report: Oct. 29, 2021

Prepared by :

(Candy Li, Engineer)

Approved & Authorized Signer :

(Martin Lü, Manager)

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Radiated Emission (30-1000MHz)	FCC Part 15 Subpart B	Pass

Note: EUT only powered by battery.

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product	:	1:22 MONZOO MONSTER
Model No.	:	0881, 0820, 0821, 0822, 0823, 0824, 0825, 0826, 0827, 0828, 0829, 0830, 0831
Rating	:	DC 1.5V*3 AA battery
Trade Mark	:	N/A
Remark(s)	:	49.86MHz
Applicant	:	PLAY TEK LIMITED
Address	:	UNIT 8, 12/F , TOWER A, NEW MANDARIN PLAZA, 14 SCIENCE MUSEUM ROAD,TSIM SHA TSUI EAST, KOWLOON HONG KONG
Manufacturer	:	PLAY TEK LIMITED
Address	:	UNIT 8, 12/F , TOWER A, NEW MANDARIN PLAZA, 14 SCIENCE MUSEUM ROAD,TSIM SHA TSUI EAST, KOWLOON HONG KONG
Date of sample received	:	Oct. 12, 2021
Date of Test	:	Oct. 22, 2021
Sample Number	:	SZ3211012-52310E-RF-S1

2.2.Test Mode

Working

2.3.Accessory and Auxiliary Equipment

Remote : 1:22 MONZOO MONSTER

2.4.Description of Test Facility

EMC Lab : Accredited by American Association for Laboratory Accreditation (A2LA)
The Certificate Number is 4297.01

Listed by Innovation, Science and Economic Development Canada (ISEDC)
The Registration Number is 5077A

Accredited by China National Accreditation Service for Conformity Assessment (CNAS)
The Registration Number is CNAS L3193

Name of Firm : Shenzhen Accurate Technology Co., Ltd.

Site Location : 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

2.5.Measurement Uncertainty

Radiated emission expanded uncertainty (30MHz-1000MHz) : *U=4.28dB, k=2*

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde& Schwarz	ESR	101817	Dec. 24, 2020	1 Year
2.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 05, 2020	3 Year
3.	Amplifier	SONOMA INSTRUMENT	310 N	186131	Dec. 25, 2020	1 Year
4.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Dec. 24, 2020	1 Year
5.	Temperature & Humidity Meter	OREGON SCIENTIFIC	JB913R	GZ-WS004	Jan. 02, 2020	3 Year
6.	RF Coaxial Cable	Unknown	N-5m	No.3	Dec. 25, 2020	1 Year
7.	RF Coaxial Cable	Unknown	N-1m	No.5	Dec. 25, 2020	1 Year
8.	Radiated Emission Test Software: EZ_EMC V 1.1.4.2					

4. RADIATED EMISSION MEASUREMENT

4.1.Block Diagram of Test Setup

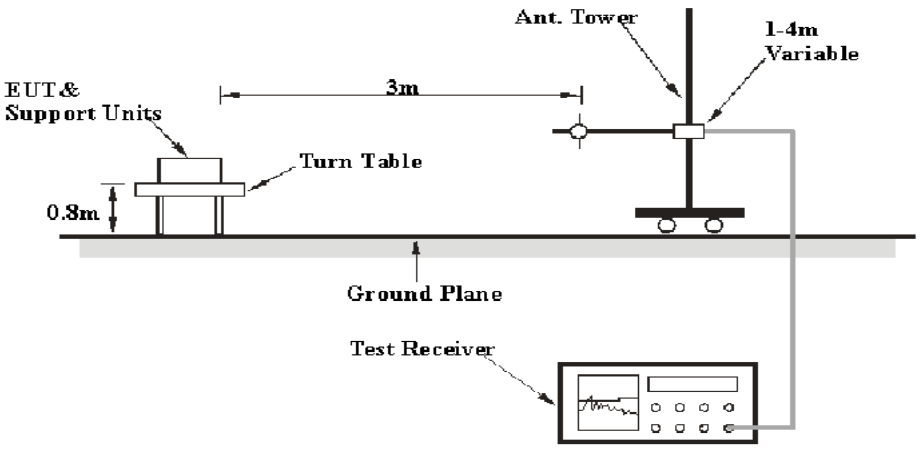
4.1.1.Block diagram of connection between the EUT and simulators

Working mode:

Remote	EUT

(EUT: 1:22 MONZOO MONSTER)

4.1.2.Test System Setup



4.2. Radiated Emission Limit (Class B)

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency MHz	Distance Meters	Field Strengths QP Limit	
		μV/m	dBμV/m
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0
Remark: (1) Emission level dBμV/m = 20 log Emission level μV/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.			

4.3. Test Mode Description

Mode: Working

4.4. Manufacturer

The following equipments are installed on Radiated Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.1.

4.5.2. Turn on the power of all equipment.

4.5.3. Let the EUT work in test mode and measure it.

4.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the Receiver (ESR) is set at 9kHz in 9kHz-30MHz, 120 kHz in 30-1000MHz.

Note: The EUT's highest operating frequency provided by Manufacturer is less than 108MHz, the radiated emission measurement shall be made up to 1GHz.

The frequency range from 30MHz to 1000MHz is investigated.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705–108	1000.
108–500	2000.
500–1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

4.7.Data Sample

Margin (dB) = Result(dBμv/m) - Limit (dBμv/m)
QP = Quasi-peak Reading

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

4.8.Radiated Emission Measurement Result

PASS.

The frequency range from 30M Hz to 1GHz is investigated.

The spectral diagrams are attached as below.

30MHz~1GHz

ACCURATE TECHNOLOGY CO., LTD.
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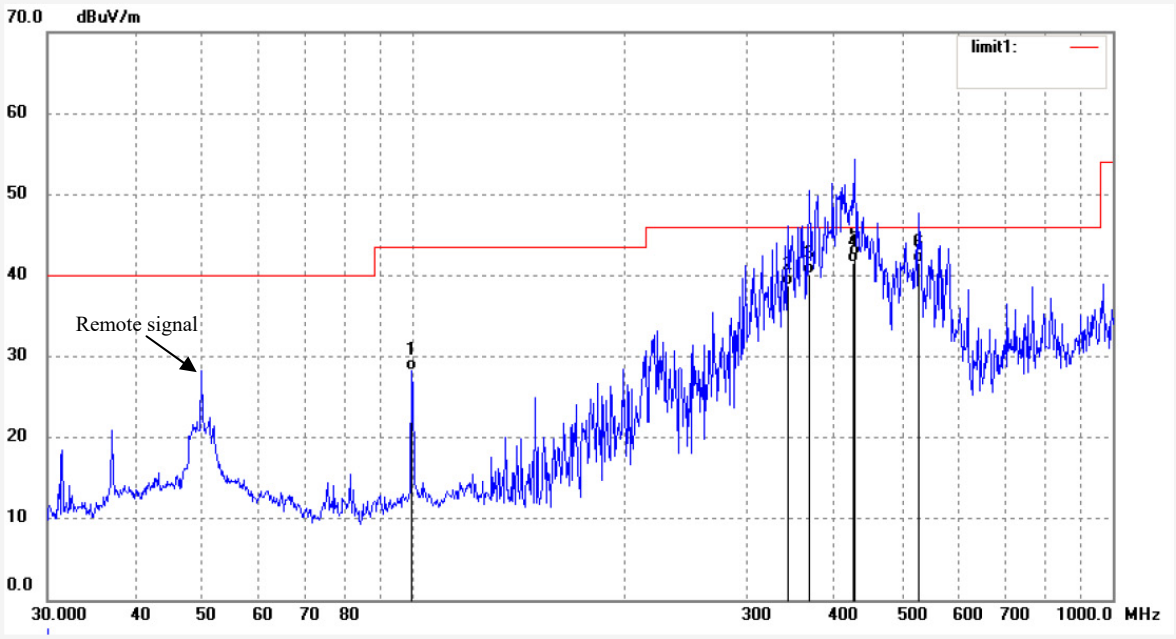
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: YAOWEN #651	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 2021-10-22
Temp.(C)/Hum.(%) 20 C / 45 %	Time: 18:29:13
EUT: 1:22 MONZOO MONSTER	Engineer Signature: Caro
Mode: Working	Distance: 3m
Model: 0881	
Manufacturer: PLAY TEK LIMITED	

Note: Report : SZ3211012-52310E-RF



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.5279	46.50	-18.26	28.24	43.50	-15.26	QP			
2	343.1800	52.14	-13.46	38.68	46.00	-7.32	QP			
3	368.1116	53.24	-13.09	40.15	46.00	-5.85	QP			
4	423.2243	53.04	-11.44	41.60	46.00	-4.40	QP			
5	428.0192	53.68	-11.29	42.39	46.00	-3.61	QP			
6	528.2458	51.28	-9.78	41.50	46.00	-4.50	QP			

ACCURATE TECHNOLOGY CO., LTD.
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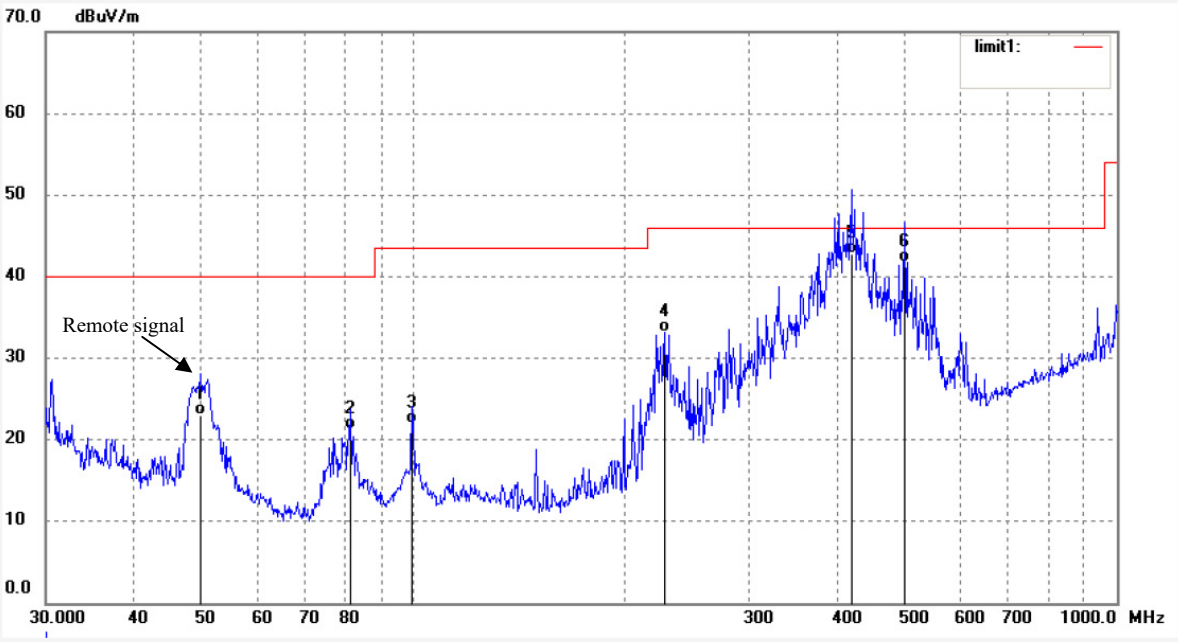
Job No.: YAOWEN #652	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 2021-10-22
Temp.(C)/Hum.(%) 20 C / 45 %	Time: 18:42:36
EUT: 1:22 MONZOO MONSTER	Engineer Signature: Caro
Mode: Working	Distance: 3m
Model: 0881	
Manufacturer: PLAY TEK LIMITED	

Note: Report : SZ3211012-52310E-RF



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	49.7068	40.25	-17.29	22.96	40.00	-17.04	QP			
2	81.2116	42.36	-21.12	21.24	40.00	-18.76	QP			
3	99.5279	40.25	-18.26	21.99	43.50	-21.51	QP			
4	227.6904	50.04	-16.83	33.21	46.00	-12.79	QP			
5	419.1081	54.32	-11.53	42.79	46.00	-3.21	QP			
6	499.4247	52.36	-10.60	41.76	46.00	-4.24	QP			

---------- THE END OF TEST REPORT ----------