

## RF EXPOSURE REPORT

Applicant	TTS-Group Ltd.
Address	Unit 1, Park Lane Business Park Park Lane, Kirkby in Ashfield, NG179GU, United Kingdom

Manufacturer or Supplier	TTS-Group Ltd.
Address	Unit 1, Park Lane Business Park Park Lane, Kirkby in Ashfield, NG179GU, United Kingdom
Product	Light Up Twist & Turn Spinning Tops
Brand Name	N/A
Model	EY10972
Additional Model & Model Difference	N/A
Date of tests	Nov. 17, 2020 ~ Jan. 05, 2021

□ 47 CFR PART 1, Subpart I, Section 1.1310

**XDB 680106 D01** 

### CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department

Date: Jan. 15, 2021

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# **RELEASE CONTROL RECORD**

ISSUE NO.	ISSUE NO. REASON FOR CHANGE	
FM2011WDG0188	Original release	Jan. 15, 2021

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Email: <a href="mailto:customerservice.dg@cn.bureauveritas.com">customerservice.dg@cn.bureauveritas.com</a>



## 1. CERTIFICATION

FCC ID:	2ADRE-EY10972	
PRODUCT: Light Up Twist & Turn Spinning Tops		
BRAND NAME:	N/A	
MODEL:	EY10972	
ADDITIONAL NO.:	N/A	
APPLICANT:	TTS-Group Ltd.	
STANDARDS:	47 CFR PART 1, Subpart I, Section 1.1310 KDB 680106 D01	

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## 2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

Description	Manufacturer	Model No.	Serial No.
Adapter	N/A	5V/2A	N/A

### 2.1 TEST LOCATION

All tests were performed at:

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942.

People's Republic of China.

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### 2.2 DEVIATION FROM STANDARDS

None

### 2.3 ABNORMALITIES FROM STANDARD CONDITIONS

None

## 3. EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Car.Due date.
1	3m Semi-Anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	NSEMC003	2021-03-19
2	Electric Filed Meter	Narda	Y2006	L-0017	2021-11-08

**NOTE:** 1. The test was performed in RS chamber.

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.

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## 4. TEST RESULTS

#### **4.1 RF EXPOSURE TEST**

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15cm

Test voltage: DC 5V from Adapter input AC 120V/60Hz

Limit:

Frequency range(MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)			
	(A) Limits for Occupational/Controlled Exposures						
0.3-3.0	614	1.63	*(100)	6			
3.0-30	1842/f	4.89/f	*(900/f2)	6			
30-300	61.4	0.163	1.0	6			
300-1500	/	/	f/300	6			
1500-100.000	/	/	5	6			
	(B) Limits for Gene	eral Population/Unco	ontrolled Exposure				
0.3-1.34	614	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f2)	30			
30-300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100.000	/	/	1.0	30			

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

#### 4.1.1 EUT OPERATION

#### **Operating Environment:**

Temperature: 25.0°C Humidity: 54% RH Atmospheric Pressure: 1015 mbar

### **EUT Operation:**

This device has been tested in standby and wireless charging status, but only the worst status was shown in test report.

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<sup>\*=</sup>Plane-wave equivalent power density



## **4.1.2 MEASUREMENT DATA**

Wireless radiation frequency: 520KHz ~ 572KHz

#### **Electric Field Emissions**

5 1 10:0 <u></u>				
Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	
Side 1	15	1.67	614	
Side 2	15	1.89	614	
Side 3	15	1.80	614	
Side 4	15	2.04	614	
Тор	20	1.36	614	

## **Magnetic Field Emissions**

Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)
Side 1	15	0.0034	1.63
Side 2	15	0.0048	1.63
Side 3	15	0.0023	1.63
Side 4	15	0.0063	1.63
Тор	20	0.0167	1.63

Note: Wireless charging mode was recorded as the worst result in the report

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## PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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