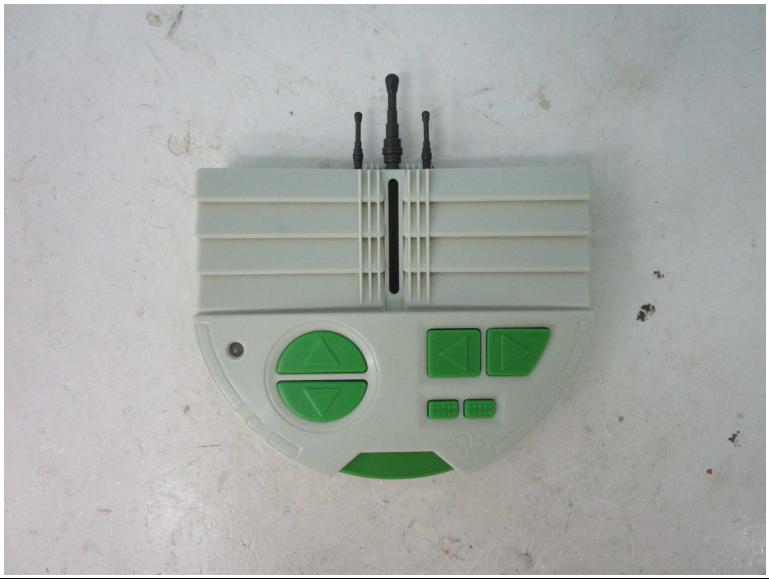
TEST REPORT No: (5220)312-0008(B)

RF EXPOSURE REPORT

To:	**INTERNATIONAL TOY**	To:	-
Attn:	Travis Prickett	Attn:	-
Address:	2151 Michelson Dr, STE 185, Irvine, CA 92612	Address:	-
Fax:	--	Fax:	-
E-mail:	travisprickett@internationaltoy.com	E-mail:	-
Folder No.:	--		

Factory name:	**EVERWIN TOYS (DONGGUAN) CO. LTD**
Location:	No. 150, Xiekeng Road, Xiekeng Village, Qingxi Town, Dongguan City, Guangdong, China
Product:	DS20 DO FEAT AF Model No.: 020S420U025



Sample No:	(5220)312-0008
Date of Receipt:	November 11, 2020
Test date:	November 24, 2020
Test Requested:	FCC Part 2 (section 2.1093)
Test Method:	KDB 447498 D01 IEEE C95.1
FCC ID:	2ACU8INT106

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 2.

Authorized Signature:

Reviewed by: Kinko Wong	Approved by: Sze Tsz Man
Date: December 18, 2020	Date: December 18, 2020

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

TEST REPORT No: (5220)312-0008(B)

Test Result Summary

RF EXPOSURE EVALUATION			
Requirement: FCC Part 2 (Section 2.1093)			
Required Item	Method	Result	
		Pass	Failed
RF EXPOSURE EVALUATION	KDB 447498 D01 IEEE C95.1	☒	☐

Report Revision & Sample Re-submit History:

--

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

TEST REPORT No: (5220)312-0008(B)

Location of the test laboratory

Bureau Veritas Hong Kong Limited

Room 03, 6/F, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Radiated measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. Semi-anechoic Chamber are set up for investigation and located at:

LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
EMI TEST RECEIVER	R&S	ESU40	100190	10-OCT-2020	10-OCT-2021
SEMI-ANECHOIC CHAMBER	FRANKONIA	--	--	20-MAR-2020	20-MAR-2021
BICONICAL ANTENNA	R&S	HK116	100242	7-MAR-2019	7-MAR-2021
LOG-PERIODIC ANTENNA	R&S	HL223	841516/019	6-MAR-2019	6-MAR-2021
ACTIVE LOOP ANTENNA	EMCO	6502	9107-2651	30-OCT-2019	30-OCT-2021
STANDARD GAIN HORN (8.2 – 12.4GHZ)	ETS-LINDGREN	3160-07	00205404	04-SEP-2020	04-SEP-2022
STANDARD GAIN HORN (12.4 – 18GHZ)	ETS-LINDGREN	3160-08	002056363	26-SEP-2020	26-SEP-2022
DOUBLE RIDGED HORN (1 – 8.2GHZ)	ETS-LINDGREN	3117	00094998	30-AUG-2020	30-AUG-2022
STANDARD GAIN HORN (26.5 – 40GHZ)	ETS-LINDGREN	3160-10	00205696	03-OCT-2020	03-OCT-2022
DOUBLE RIDGED HORN (18-26.5GHZ)	ETS-LINDGREN	3116	00109210	05-OCT-2020	05-OCT-2022
MICROWAVE PREAMPLIFIER	COM-POWER CORPORATION	PAM-118A	551091	6-MAR-2020	6-MAR-2021
PREAMPLIFIER (18 -40GHZ WITH CABLE)	A.H. Systems, Inc.	Pam-1840VH	168	30-JAN-2020	30-JAN-2021
COAXIAL CABLE	Huber+Suhner	CNM-NMCMILX800-473	A2803 #0001	04-OCT-2020	04-OCT-2022

Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	30MHz to 200MHz	±5.2dB
	200MHz to 1GHz	±6.1dB
	1GHz to 8.2GHz	±4.9dB
	8.2GHZ to 12.4GHz	±4.3dB
	12.4GHz to 18GHz	±4.6dB

Remarks:-

N/A : Not Applicable or Not Available
Measurement uncertainty is calculated in accordance with CISPR 16-4-2.
The statement of compliance is based on a 95% coverage probability for the expanded uncertainty of the measurement result using a coverage factor k = 2.
Compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

TEST REPORT No: (5220)312-0008(B)

General Information	
Product:	DS20 DO FEAT AF
Model Number:	020S420U025
Data Cable:	--
Power Line Cable:	--
Accessory Device:	--
Additional Product Name:	--
Additional Model Number:	--
Additional Model Information:	--
Adaptor:	--
Model:	--
Input:	--
Input power line cable:	--
Output:	--
Output power line cable:	--
Technical Information	
Rated Voltage:	3Vd.c. (“AAA” size battery x 2)
Power supply:	3Vd.c. (“AAA” size battery x 2)
Other information:	--
Disclaimer Note: Technical information stated on this table are provided by client. All tests were conducted base on the technical information provided above.	

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

Description of EUT Operation:

The Equipment Under Test (EUT) is a **INTERNATIONAL TOY** of Remote Control Transmitter. It is a 1 switch and 7 buttons transmitter and operating at 2419MHz to 2474MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed or sticks are being pushed or pulled, Modulation by IC, and type is GFSK.

There are total 6 channels and below is the frequency list :

2419	2425	2445	2450	2470	2474

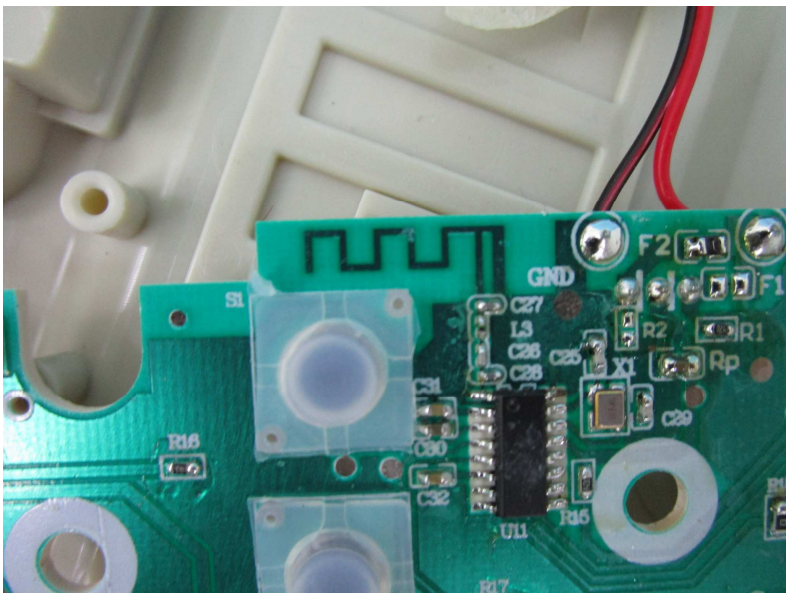
The transmitter has different control:

1. ON/OFF Switch – power control
2. Move Forward button – forward control
3. Move backward button – backward control
4. Turn left button – leftward control
5. Turn Right button– rightward control
6. Head Left button
7. Head Right button

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna



BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

RF EXPOSURE EVALUATION

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, 30 where
- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):
1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW, for > 1500 MHz and ≤ 6 GHz

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]
2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by ½
3) SAR measurement procedures are not established below 100 MHz.

CLASSIFICATION

The antenna of this product under normal use condition, is less than 20 cm away from the body of the user. So, this device is classified as Portable device.

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

SAR test exclusion threshold

Frequency Band (MHz)	Maximum source-based time averaged conducted output power (dBm)	Tolerance (dBm)	Minimum separation distance (mm)	Result from (a)	Limit for 1-g SAR	Limit for 10-g extremity SAR
2419 - 2474	-2.1	1	5	0.2	3.0	7.5

Therefore this device is not required SAR evaluation for general population exposure conditions since the SAR Test Exclusion Threshold condition is satisfied.

******* End of Report *******

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon,HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com