



RF Exposure Evaluation Report

Application No.: DNT2604171575R03075-03681
Applicant: HANK SMART TECH CO., LTD
Address of Applicant: 729, 7th Floor, Zerun Center, 1 Banxuegang Avenue, Longgang District
EUT Description: Smart power switch
Model No.: Hank-sw02
Additional Model: EZL-ZWINLINESW-US
FCC ID: 2AXIE-HANK-SW02
Power supply: Input AC 90~135V/60Hz, 15A
Trade Mark: HANK
47 CFR Part 2.1091
Standards: FCC KDB 447498 D01 v06
Date of Receipt: 2026/4/17
Date of Test: 2026/4/17 to 2026/4/26
Date of Issue: 2026/4/27
Test Result: **PASS**

Prepared By: Calk. Lin (Testing Engineer)

Reviewed By: Wayne Lin (Project Engineer)

Approved By: Heine Shan (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	April 27, 2026	Valid	Original Report



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1 General Information

1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Gali Lin



1.2 General Description of EUT

Manufacturer:	HANK SMART TECH CO., LTD
Address of Manufacturer:	729, 7th Floor, Zerun Center, 1 Banxuegang Avenue, Longgang District
Factory:	HANK SMART TECH CO., LTD
Address of Factory:	729, 7th Floor, Zerun Center, 1 Banxuegang Avenue, Longgang District
EUT Description::	Smart power switch
Test Model No.:	Hank-sw02
Additional Model(s):	EZL-ZWINLINESW-US
Chip Type:	ZG23
Serial Number	PR2604171575R03075
Power Supply	Input AC 90~135V/60Hz,15A
Trade Mark:	HANK
Hardware Version:	V2.0
Software Version:	V2.0
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Gain:	☒ Provided by applicant
	-1.27dBi

Remark:

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

*All models are just name differences, motherboard, PCB circuit board, chip, electronic components is all the same.



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	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/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	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 *=Plane-wave equivalent power density 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).				

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

2.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Test Mode	Antenna	Freq(MHz)	Power [dBm]
O-QPSK	Ant1	912	12.16
		920	11.95

The Worst Mode	Fre (MHz)	Peak Level (dB μ V/m)	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm ²)	Limited of Power Density (S) (mW /cm ²)	Test Result	Distance (cm)
						(dBi)	(Linear)				
O-QPSK	912	/	12.16	12 $\pm$ 1	13	-1.27	0.746	0.00296	0.608	Complies	20
O-QPSK	920	/	11.95	11 $\pm$ 1	12	-1.27	0.746	0.00235	0.613	Complies	20
FSK	908.4	91.66	-3.60	-3 $\pm$ 1	-2	-1.27	0.746	0.00009	0.605	Complies	20
FSK	908.42	90.17	-5.09	-5 $\pm$ 1	-4	-1.27	0.746	0.00006	0.605	Complies	20
GFSK	916	89.11	-6.15	-6 $\pm$ 1	-5	-1.27	0.746	0.00005	0.610	Complies	20

1.EIRP=E-104.8+20logD, D is test distance.

The End Report