Sunwoda Electronic Co., Ltd.

TEST REPORT

SCOPE OF WORK
SAR Assessment– SPEN-HP-01, SPEN-HP-02

REPORT NUMBER
220324096SZN-004

ISSUE DATE **[REVISED DATE]**
12 April 2022 [----------]

PAGES
6

DOCUMENT CONTROL NUMBER
RF Exposure

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Test Report

Applicant	:	Sunwoda Electronic Co., Ltd. 1/F,2/F of Area A&B&D,3-9F,Administration Building, No.2, Yihe Rd., Shilong Community Shiyan Street, Bao'an District,SHENZHEN, 518108 China
Sample Description		
Product	:	Active Stylus
Model No.	:	SPEN-HP-01, SPEN-HP-02
Brand Name	:	
Electrical Rating	:	DC 1.5V for AAAA battery
Date Received	:	24 March 2022
Date Test Conducted	:	24 March 2022 to 11 April 2022
Test Requested	:	Test for compliance with CFR 47 part 1
Test Method	:	Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310
Test Result	:	Pass
Conclusion	:	When determining of test conclusion, measurement uncertainty of tests have been considered.

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Prepared and Checked By:

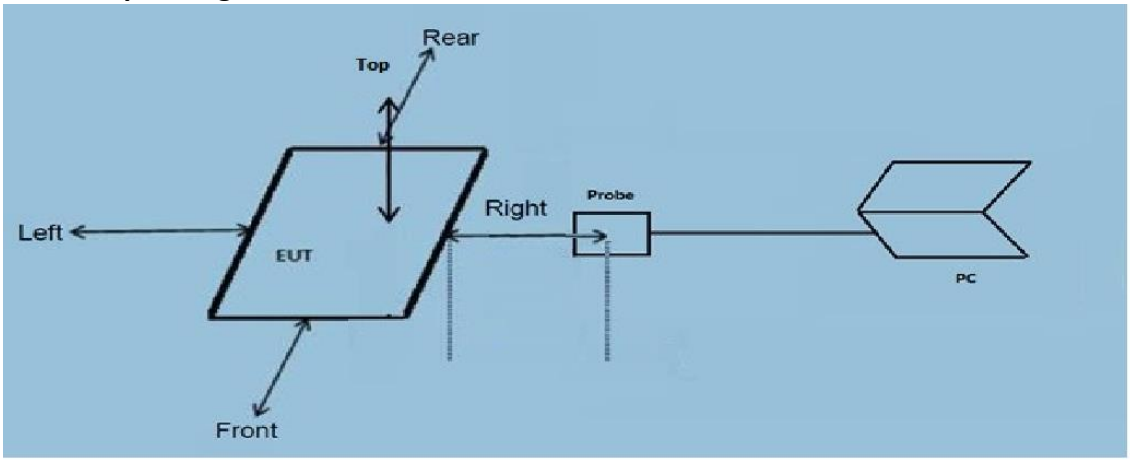
Rode Liu
Project Engineer

Approved By:

Peter Kang
Senior Technical Supervisor
Date: 12 April 2022

Test Report

Test Setup Configuration



Note
- The RF exposure test is performed in the shield room.
- The test distance is at or beyond 0, 2, 4, 6, 8, 10, 15 cm surrounding the device, and 0, 2, 4, 6, 8, 10, 20 cm away from the surface from coil.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-50F	Narda	2021-07-20	2022-07-20

Test Mode

Pertest mode	Description
Mode 1	Continuous Transmitting

The EUT was powered by AAAA battery input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. Only the worst-case data was shown in this report.

The Model: SPEN-HP-02 is the same as the Model: SPEN-HP-01 in hardware and electrical aspect. The difference in color serves as packaging and marketing purpose only.

Support Equipment List and Description

This product was tested in the following configuration:

Description	Manufacturer	Detail
/	/	/

Reference Limit:
Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100) *	30

Note: * = Plane wave equivalent power density

Model: SPEN-HP-01
Test Result: Worst Case Operating Mode: Mode 1

H-Field Strength at 0 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.018-0.044	Continuous Transmitting	0.008	0.008	0.009	0.005	0.001	0.008	1.63

E-Field Strength at 0 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.018-0.044	Continuous Transmitting	0.021	0.01	0.016	0.011	0.01	0.021	614

H-Field Strength at 2 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.018-0.044	Continuous Transmitting	0.007	0.006	0.007	0.004	0.001	0.007	1.63

E-Field Strength at 2 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.018-0.044	Continuous Transmitting	0.020	0.011	0.015	0.012	0.01	0.020	614

H-Field Strength at 4 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.018-0.044	Continuous Transmitting	0.006	0.006	0.007	0.006	0.002	0.007	1.63

E-Field Strength at 4 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.018-0.044	Continuous Transmitting	0.019	0.03	0.014	0.012	0.00	0.018	614

H-Field Strength at 6 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.018-0.044	Continuous Transmitting	0.005	0.005	0.007	0.004	0.001	0.006	1.63

E-Field Strength at 6 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.018-0.044	Continuous Transmitting	0.017	0.00	0.014	0.010	0.00	0.016	614

H-Field Strength at 8 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.018-0.044	Continuous Transmitting	0.006	0.006	0.007	0.004	0.000	0.007	1.63

E-Field Strength at 8 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.018-0.044	Continuous Transmitting	0.015	0.01	0.014	0.008	0.01	0.015	614

H-Field Strength at 10 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.018-0.044	Continuous Transmitting	0.006	0.006	0.007	0.004	0.001	0.006	1.63

E-Field Strength at 10 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.018-0.044	Continuous Transmitting	0.014	0.01	0.012	0.008	0.01	0.015	614

H-Field Strength at 15 cm surrounding the EUT and 20cm away from the surface from the coil of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.018-0.044	Continuous Transmitting	0.004	0.004	0.005	0.003	0.001	1.63

E-Field Strength at 15 cm surrounding the EUT and 20cm away from the surface from the coil of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.018-0.044	Continuous Transmitting	0.012	0.01	0.011	0.006	0.01	614

Configuration photo of the test:

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: RF exposure photos.pdf.

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