TEST REPORT

Product Name : HaritoraX 2
Model Number : SVP-AF01SB, SVP-AF01UB
FCC ID : 2A4GC-SVPAF01SB

Prepared for	:	Shiftall Inc.
Address	:	4F TokyoDaiwa Bldg., 2-6-10 Nihonbashibakurocho, Chuo, Tokyo, Japan
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
Address	:	-1&2/F.,Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China Tel: (0755) 26954280 Fax: (0755) 26954282
Report Number	:	EDG2412110149E00503R
Date(s) of Tests	:	January 21, 2025 to February 14, 2025
Date of issue	:	February 14, 2025

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1. TEST RESULT CERTIFICATION

Applicant	:	Shiftall Inc.
Address	:	4F TokyoDaiwa Bldg., 2-6-10 Nihonbashibakurocho, Chuo, Tokyo, Japan
Manufacturer	:	Shiftall Inc.
Address	:	4F TokyoDaiwa Bldg., 2-6-10 Nihonbashibakurocho, Chuo, Tokyo, Japan
Factory	:	P. IMES Corporation
Address	:	Block 16 Phase IV, Cavite Economic Zone, Rosario, Cavite PHILIPPINES
EUT	:	HaritoraX 2
Model Name	:	SVP-AF01SB, SVP-AF01UB
Trademark	:	HaritoraX 2

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
§ 15.247(i), § 15.249, § 2.1093	**PASS**

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules § 15.247(i), § 15.249, § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : January 21, 2025 to February 14, 2025

Prepared by : Warren Deng

Warren Deng /Editor

Reviewer : Tim Dong

Tim Dong/ Supervisor

Approve & Authorized Signer :

Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2412110149E00503R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	HaritoraX 2
Model Number:	SVP-AF01SB, SVP-AF01UB (SVP-AF01SB - Basic set SVP-AF01UB – Sensor unit SVP-AF01SB contains two sensors A and two sensors B. Sensor A and sensor B are identical except that sensor B has a distance sensor and a knee sensor. Both sensor A and sensor B have been tested, and only the worst case is kept in the report. SVP-AF01UB contains one sensor A only.)
Sample:	1#
Device Type:	Bluetooth V5.0
Data Rate:	BLE 1Mbps&2Mbps SRD 1Mbps&2Mbps
Modulation:	GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 Channels for BLE 40 frequencies for SRD
Transmit Power Max:	BLE: -7.93 dBm(0.000161 W) SRD: 79.08 dBuV@3m
Antenna Type:	Chip Antenna
Antenna Gain:	2.5 dBi
Power supply:	DC 5V from Speaker, DC 3.7V from battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

According to 447498 D01 V06, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

According to ANSI C63.10-2013
9.5 Equations to calculate EIRP
Calculate the EIRP from the radiated field strength in the far field using Equation (22):
EIRP = E + 20log (d) −104.7 (22)
where
EIRP is the equivalent isotropically radiated power, in dBm
E is the field strength of the emission at the measurement distance, in dBμV/m
d is the measurement distance, in m

4. Measurement Result

Antenna gain: 2.5 dBi
The manufacturer states that BLE and 2.4G cannot work at the same time.
The measurement results are as follows:

BLE

Mode	Channel Frequency (MHz)	Measured Power (dBm)	E. I.R.P (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
GFSK_1M	2402	-1.05	1.45	1±1	2	0.4912658	3
	2440	-1.69	0.81	0±1	1	0.3933815	3
	2480	-1.46	1.04	1±1	2	0.4991785	3
GFSK_2M	2402	-1.09	1.41	1±1	2	0.4912658	3
	2440	-1.61	0.89	0±1	1	0.3933815	3
	2480	-1.25	1.25	1±1	2	0.4991785	3

2.4G

Mode	Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
GFSK	2402	95.62	2.9624	2±1	3	0.62013831	3
GFSK	2440	96.59	3.9324	3±1	4	0.78538137	3
GFSK	2480	95.63	2.9724	2±1	3	0.62703321	3

According to KDB 447498, no stand-alone required for Chip antenna, and no simultaneous SAR measurement is required.

*** End of Report ***