

TEST REPORT

Product Name : HaritoraX 1.1
Model Number : SVP-MC2S, SVP-MC2E, SVP-MC2W
FCC ID : 2A4GC-SVPMC2S

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: +86-0769-22807078
FAX: +86-0769-22807079

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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 1.1
Model Name : SVP-MC2S, SVP-MC2E, SVP-MC2W
Trademark : HaritoraX 1.1

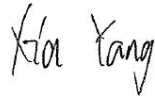
Measurement Procedure Used:

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

The above equipment was tested by EMTEK(DONGGUAN) 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 FCC § 15.247(i), § 2.1093.

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

Date of Test : December 28, 2022 to January 12, 2023

Prepared by : 

Xia Yang /Editor

Reviewer : 

Tim Dong/ Supervisor

Approve & Authorized Signer :  

Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2212280010E00103R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	HaritoraX 1.1
Model Number:	SVP-MC2S, SVP-MC2E, SVP-MC2W The main EUT of the three models is the same. The main EUT can be matched with 4, 5 and 7 induction devices. All the three collocation methods have been tested, and the worst case (7 induction devices) is given in the report. (SVP-MC2S)
Sample:	1#
Device Type:	Bluetooth V4.2
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	BT: 79 channels BLE: 40 Channels
Transmit Power Max:	BT: 4.31 dBm(0.002698 W) BLE: 2.54 dBm(0.001795 W)
Antenna Gain:	3.71 dBi
Power supply:	DC 5V from USB, DC 3.7V from battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), 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:

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

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain:3.71 dBi
BT

Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	2.27	2±1	3	0.6184670	3
2441	GFSK	-0.04	-1±1	0	0.3124740	3
2480	GFSK	-1.29	-2±1	-1	0.2501819	3
2402	Π/4-DQPSK	4.14	4±1	5	0.9802041	3
2441	Π/4-DQPSK	1.90	1±1	2	0.4952379	3
2480	Π/4-DQPSK	0.46	0±1	1	0.3965115	3
2402	8DPSK	4.31	4±1	5	0.9802041	3
2441	8DPSK	1.91	1±1	2	0.4952379	3
2480	8DPSK	0.62	0±1	1	0.3965115	3

BLE_1M

Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	2.54	2±1	3	0.6184670	3
2441	GFSK	-0.07	-1±1	0	0.3124100	3
2480	GFSK	-1.46	-2±1	-1	0.2501819	3

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

*** End of Report ***