

TEST REPORT

Product Name : mutalk 2
Model Number : SVP-OD2B
FCC ID : 2A4GC-SVPOD2

Prepared for : Shiftall Inc.
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Secretary Co., Ltd.)

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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 : Huizhou Kelin Acoustic Co., Ltd
Address : No.18 dutian industrial village, gonglian management district, longfeng office, huizhou city, guangdong province
EUT : mutalk 2
Model Name : SVP-OD2B
Trademark : N/A

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 : March 08, 2024 to April 02, 2024

Prepared by : 

Warren Deng /Editor

Reviewer : 

Tim Dong /Supervisor

Approve & Authorized Signer : 
Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2403080023E00403R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	mutalk 2
Model Number:	SVP-OD2B
Sample:	1#
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation 1Mbps for GFSK modulation 2Mbps for GFSK modulation
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz for BT 2402-2480MHz for 1Mbps; 2404-2478MHz for 2Mbps;
Number of Channels:	79 channels for BT 40 channels for BLE
Transmit Power Max:	-3.39 dBm(0.000458 W) for BT 5.82 dBm(0.003819 W)for BLE
Antenna Gain:	1.59 dBi
Power supply:	DC 5V from USB DC 3.7V from battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

SAR 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ 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: 1.59 dBi

BT

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	2402	-3.74	-2.15	-3±1	-2	0.1959831	3
	2441	-4.53	-2.94	-3±1	-2	0.1969962	3
	2480	-3.39	-1.80	-2±1	-1	0.2492723	3
pi/4-DQPSK	2402	-3.77	-2.18	-3±1	-2	0.1959831	3
	2441	-4.64	-3.05	-4±1	-3	0.1564796	3
	2480	-3.53	-1.94	-2±1	-1	0.2492723	3
8-DPSK	2402	-3.96	-2.37	-3±1	-2	0.1959831	3
	2441	-4.6	-3.01	-4±1	-3	0.1564796	3
	2480	-3.59	-2.00	-2±1	-1	0.2492723	3

BLE

Mode	Transmit Frequency(MHz)	Mode	Measured Power (dBm)	E.I.R.P(dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
1M	2402	GFSK	5.82	7.41	7±1	8	1.9557642	3
	2441	GFSK	5.18	6.77	6±1	7	1.5660798	3
	2480	GFSK	4.97	6.56	6±1	7	1.5785409	3
2M	2404	GFSK	5.73	7.32	7±1	8	1.9557642	3
	2441	GFSK	5.17	6.76	6±1	7	1.5660798	3
	2478	GFSK	4.92	6.51	6±1	7	1.5785409	3

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***