

TEST REPORT

Product Name : GX6 Dongle
Model Number : SVP-D6G1B
FCC ID : 2A4GC-SVPD6G1B

Prepared for : Shiftall Inc.
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Report Number : EDG2308310183E00702R
Date(s) of Tests : October 25, 2023 to November 07, 2023
Date of issue : November 07, 2023

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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 : Nova Technology(HK) Co.,Ltd
 Address : Room 1707-1709, Metropolitan Heights at Century Place, No. 3018 ShenNan Middle Road, Futian Dist, 518000 SHENZHEN GUANGDONG China, Peoples Republic
 EUT : GX6 Dongle
 Model Name : SVP-D6G1B
 Trademark : GX6 Dongle


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 : October 25, 2023 to November 07, 2023

Prepared by : 
Xia Yang /Editor

Reviewer : 
Tim Dong/ Supervisor

Approved & Authorized Signer :  
Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2308310183E00702R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	GX6 Dongle
Model Number:	SVP-D6G1B Note: The three modules have the same schematic diagram and are controlled by the same chip. Conducted emission, radiated spurious emission and maximum peak conducted output power of the three modules were tested. Other items selected module 1 for testing because the maximum peak conducted output power was greater than the others
Sample:	2#
Device Type:	SRD
Data Rate:	1Mbps 2Mbps
Modulation:	GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 channels
Transmit Power Max:	0.78 dBm(0.001197 W)
Antenna Type:	Chip Antenna
Antenna Gain:	Ant1: 2.5 dBi Ant2: 2.5 dBi Ant3: 2.5 dBi
Power supply:	DC 5V 200mA from USB
Evaluation applied:	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ 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: 2.5 dBi

When a single module works, the measurement results are as follows:

ANT 1:

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	0.78	3.28	3±1	4	0.7786038	3
	2440	0.04	2.54	2±1	3	0.6234676	3
	2480	-5.13	-2.63	-3±1	-2	0.1987265	3
GFSK_2M	2402	0.68	3.18	3±1	4	0.7786038	3
	2440	0.00	2.50	2±1	3	0.6234676	3
	2480	-5.10	-2.60	-3±1	-2	0.1987265	3

ANT 2:

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	0.05	2.55	2±1	3	0.6184670	3
	2440	-1.07	1.43	1±1	2	0.4952379	3
	2480	-6.03	-3.53	-4±1	-3	0.1578541	3
GFSK_2M	2402	0.04	2.54	2±1	3	0.6184670	3
	2440	-1.00	1.50	1±1	2	0.4952379	3
	2480	-6.05	-3.55	-4±1	-3	0.1578541	3

ANT 3:

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	0.28	2.78	2±1	3	0.6184670	3
	2440	0.24	2.74	2±1	3	0.6234676	3
	2480	-4.29	-1.79	-2±1	-1	0.2501819	3
GFSK_2M	2402	0.30	2.80	2±1	3	0.6184670	3
	2440	0.20	2.70	2±1	3	0.6234676	3
	2480	-4.20	-1.70	-2±1	-1	0.2501819	3

When all module works, the measurement results of worst case are as follows:

Mode	Antenna	Calculation Result	1-g SAR
GFSK	ANT1	0.7786038	3
	ANT2	0.6184670	3
	ANT3	0.6234676	3
	Total	2.0205384	3

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

*** End of Report ***