



RF Exposure Evaluation

FCC ID: 2AOFL-SWAMIVIBE

1. Client Information

Applicant	:	IZZO GOLF, INC.
Address	:	1635 Commons Parkway, Macedon, NY 14502, USA
Manufacturer	:	CANMORE ELECTRONICS CO., LTD.
Address	:	No. 61, Gaotie 7th Rd., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

2. General Description of EUT

EUT Name	:	SWAMI VIBE
Model(s)	:	SWAMI VIBE, SWAMI VIBE Blue(A44316), SWAMI VIBE Lime(A44317), SWAMI VIBE Orange(A44318)
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is color.
Product Description	:	Operation Frequency: Bluetooth 5.1(BDR+EDR): 2402MHz~2480MHz
		Number of Channel: 79 channels
		RF Output Power: -0.043dBm (Max)
		Antenna Gain: -0.8dBi PCB Antenna
Modulation Type:	:	GFSK(1Mbps)
		π /4-DQPSK(2Mbps)
		8-DPSK(3Mbps)
Power Supply	:	USB Input: DC 5V/0.5A DC 3.7V by 1600mAh 5.92Wh Li-ion battery
Software Version	:	1.1.60.0
Hardware Version	:	V2.1
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] * \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 3.0 \text{ for 1-g SAR}$$

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] * \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
GFSK Mode (1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.043	0±1	1	1.259	0.390	3.0
2.441	-0.216	0±1	1	1.259	0.393	3.0
2.480	-0.711	0±1	1	1.259	0.397	3.0

Test separation: 5mm						
$\pi/4$ -DQPSK Mode (2Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-2.014	-2±1	-1	0.794	0.246	3.0
2.441	-2.185	-2±1	-1	0.794	0.248	3.0
2.480	-2.651	-2±1	-1	0.794	0.250	3.0

Test separation: 5mm						
8-DPSK Mode (3Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-1.574	-1±1	0	1	0.310	3.0
2.441	-1.947	-1±1	0	1	0.312	3.0
2.480	-2.294	-2±1	-1	0.794	0.250	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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