

RF Exposure Evaluation Report

Product : SMART CONNECT GOLD REEL
Trade mark : N/A
Model/Type reference : SCR.V.2
Serial Number : N/A
Report Number : EED32K00336002
FCC ID : 2AQ7V-SCRMB1
Date of Issue : Jan. 17, 2019
47 CFR Part 1.1307
Test Standards : 47 CFR Part 1.1310
KDB447498D01v06
Test result : PASS

Prepared for:

V-Mark Enterprises Ltd.
400-601 West Broadway, Vancouver, British Columbia, Canada

Prepared by:

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2 Version

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4 General Information

4.1 Client Information

Applicant:	V-Mark Enterprises Ltd.
Address of Applicant:	400-601 West Broadway, Vancouver, British Columbia, Canada
Manufacturer:	Senpu Fishing Tackle Co., Ltd.
Address of Manufacturer:	Floor 2 No 2 Building Fucheng Industrial Park, 82nd Shilian lu, Shiji Town, Panyu District, GuangZhou
Factory:	Senpu Fishing Tackle Co., Ltd.
Address of Factory:	Floor 2 No 2 Building Fucheng Industrial Park, 82nd Shilian lu, Shiji Town, Panyu District, GuangZhou

4.2 General Description of EUT

Product Name:	SMART CONNECT GOLD REEL
Model No.(EUT):	SCRV.2
Trade Mark:	N/A
EUT Supports Radios application	BT: 4.2 BT Single mode: 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Sample Type:	Portable production
Test Power Grade:	N/A
Test Software of EUT:	N/A
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC 3.3V
Test Voltage:	AC 120V
Conduct Peak Power:	-4.439dBm The Conduct Peak Power data refer to the report EED32K00336001
Firmware version:	V2(manufacturer declare)
Hardware version:	V2(manufacturer declare)
Sample Received Date:	Dec. 17, 2018
Sample tested Date:	Dec. 21, 2018 to Jan. 17, 2019
The tested sample(s) and the sample information are provided by the client.	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user.

Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 0dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm ²)	Limit (mW/cm ²)	Result
lowest	2402	-4.439	0	-4.439	0.36	20	0.00007	1.0	Pass

Note: Refer to report No. EED32K00336001 for EUT test Max Conducted Peak Output Power value.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00336001 for EUT external and internal photos.

*** End of Report ***

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