

# ***RF Exposure Report***

## ***FCC ID: 2ALQV-GC02***

### **1. GENERAL INFORMATION**

#### **1.1 GENERAL DESCRIPTION OF EUT**

<b>Equipment</b>	Grush AR Gaming Sonic Toothbrush
<b>Model Name</b>	GC02
<b>Additional Model Number(s)</b>	N/A
<b>Model Difference</b>	N/A
<b>Frequency Range</b>	Bluetooth 4.0(BLE): 2402~2480 MHz
<b>Number of Channel:</b>	40 Channels
<b>Modulation Type</b>	GFSK
<b>RF Output Power</b>	-0.271 dBm
<b>Antenna Type</b>	PCB Antenna (Gain: 0dBi)
<b>Power Source</b>	DC Voltage supplied from Battery.
<b>Power Rating</b>	DC Voltage by 1.5V AA Battery.
<b>Remark</b>	More details EUT technical specifications, please refer to the User's Manual.

## 2. RF EXPOSURE INFORMATION

### SAR Test Exclusion Calculations

#### 2.1 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 distances  $\leq 5$  mm are determined by:

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

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

#### 2.2

##### Calculation:

BLE Mode						
GFSK(1Mbps)						
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	MAX Power of Turn-up Tolerance (mW)	Calculation Value	Threshold Value
2402	-0.708	$0 \pm 1$	1	1.259	0.390	3.0
2442	-0.271	$0 \pm 1$	1	1.259	0.393	3.0
2480	-0.316	$0 \pm 1$	1	1.259	0.397	3.0

So standalone SAR measurements are not required.

\*\*\*\*\*END OF REPORT\*\*\*\*\*