RF Exposure Evaluation

FCC ID: 2AENWAMK3W602B

1. Client Information

Applicant	:	GOAL ZERO
Address	:	675 WEST 14600 SOUTH BLUFFDALE US
Manufacturer	:	Dongguan Meiluodi Electronics Co.,Ltd
Address	:	No.16 Zhenxing Road, Shangjiao, Chang'an, Dongguan, Guangdong, 523878, China

2. General Description of EUT

EUT Name	:	ROCK OUT 2 WIRELESS	
Models No.	:	AMK-3W6-02B	
Model difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	GFSK: 3.699dBm
		Antenna Gain:	0 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π/4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable DC power by Li-ion Battery	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V 800mAh Li-ion Battery.	
Product HW/SW	:	AMK-3W6-02B	
Radio HW/SW	:	AMK-3W6-02B	
Test Software	:	RF Control Kit v1.0	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

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

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

(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:

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

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

2.
Calculation:

Test separation: 5mm					
Bluetooth Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.582	±0.5	2.560	0.793	**3.0**
2.441	3.699	±0.5	2.630	0.822	**3.0**
2.480	3.582	±0.5	2.560	0.806	**3.0**
Bluetooth Mode (π /4-DQPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.213	±0.5	1.868	0.579	**3.0**
2.441	2.389	±0.5	1.945	0.608	**3.0**
2.480	2.273	±0.5	1.894	0.596	**3.0**
Bluetooth Mode (8-DPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.357	±0.5	1.931	0.598	**3.0**
2.441	2.521	±0.5	2.005	0.626	**3.0**
2.480	2.395	±0.5	1.948	0.613	**3.0**

So standalone SAR measurements are not required.