

RF Exposure Evaluation

FCC ID: 2APAD-00001

1. Client Information

Applicant : Triva, Inc.
Address : 2101 N Andrews Ave, Fort Lauderdale, FL, United States
Manufacturer : Fullwill Technology Co., Ltd.
Address : 6th Floor, Building A, Xinzheng Industrial Park, No. 57 Liuxian 2nd Rd, Xin'an Street, Bao'an District, Shenzhen, China.

2. General Description of EUT

EUT Name	: TRIVA BEACON	
Models No.	: 0000000001	
Product Description	Operation Frequency:	Bluetooth V4.2(BLE): 2402~2480 MHz
	RF Output Power:	BLE: 1.274dBm
	Antenna Gain:	5.3dBi PCB Antenna
Power Supply	: DC Voltage supplied by Button battery	
Power Rating	: DC 3.0V by Button battery	
Software Version	: V0	
Hardware Version	: V0	
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.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
BLE Mode (GFSK)						
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	1.274	1±1	2	1.585	0.491	3.0
2.440	1.072	1±1	2	1.585	0.495	3.0
2.480	1.066	1±1	2	1.585	0.499	3.0

So standalone SAR measurements are not required.

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