

RF Exposure Evaluation

FCC ID: 2AT2N-T200

1. Client Information

Applicant : TRIVA INC.
Address : 1401 NE. 26th Street. Fort Lauderdale, Florida, USA
Manufacturer : TRIVA INC.
Address : 1401 NE. 26th Street. Fort Lauderdale, Florida, USA

2. General Description of EUT

EUT Name	:	Smart Safety Tag	
Models No.	:	T200	
Model Different	:	N/A	
Product Description	:	Operation Frequency:	Bluetooth V5.0: 2402MHz~2480MHz
		RF Output Power:	BLE:-1.377dBm (Max)
		Antenna Gain:	5.3dBi PCB Antenna
Power Supply	:	DC Supply by the Coin Cell.	
Power Rating	:	DC 3V by CR2032 Coin Cell.	
Software Version	:	v1	
Hardware Version	:	T200	
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:

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

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $[\sqrt{f_{\text{GHz}}}] \leq 7.5.0$ 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	-1.377	-2±1	-1	0.794	0.246	3.0
2.442	-2.788	-3±1	-2	0.631	0.197	3.0
2.480	-3.864	-3±1	-2	0.631	0.199	3.0

So standalone SAR measurements are not required.

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