

# RF Exposure Evaluation

## FCC ID: 2AX2V-A1799

### 1. Client Information

<b>Applicant</b>	:	Shenzhen Tilv Technology Co., Ltd
<b>Address</b>	:	4/F Dongshan No.8 factory, Difu Rd.,Gushu Community, Xixiang St., Baoan District, Shenzhen, China
<b>Manufacturer</b>	:	Shenzhen Tilv Technology Co., Ltd
<b>Address</b>	:	4/F Dongshan No.8 factory,Difu Rd., Gushu Community, Xixiang St., Baoan District, Shenzhen, China

### 2. General Description of EUT

<b>EUT Name</b>	:	360° object tracking holder	
<b>Model(s) No.</b>	:	A1799, TRACK AI, TRACK ROBOT, T-1799, IJOY TRACK, IJPSTRK01, 360 VIEW, 360 TRACK, SMART TRIPOD, SMART HOLDER, A2252	
<b>Model Different</b>	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is Housing.	
<b>Product Description</b>	:	Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz
		Number of Channel:	Bluetooth 5.0(BT): 79 channels
		RF Output Power:	3.757dBm (Max)
		Antenna Gain:	0dBi PCB Antenna
		Modulation Type:	GFSK,
		Bit Rate of Transmitter:	1Mbps
<b>Power Supply</b>	:	Input: 3*1.5 AA Battery	
<b>Software Version</b>	:	V1.2	
<b>Hardware Version</b>	:	V2.0	
<b>Remark:</b> The antenna gain provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab.			

**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  $\leq 5$  mm are determined by:

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

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

**2. Calculation:**

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.661	3±1	4.0	2.512	0.779	3.0
2.441	3.757	3±1	4.0	2.512	0.785	3.0
2.480	3.235	3±1	4.0	2.512	0.791	3.0

**Conclusion:**

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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