

RF Exposure Evaluation

FCC ID: 2AX2V-A1799C

1. Client Information

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

2. General Description of EUT

EUT Name	:	AI 360 FACE/OBJECT TRACKING TRIPOD												
Model(s) No.	:	A1799, IJOY CHASE, CHASE ROBOT, TRACK AI, TRACK ROBOT, IJOY TRACK, 360 VIEW, IJPSTRK01, 360 TRACK, T-1799, SMART TRIPOD, SMART HOLDER, A2252, IJPSCHRT01, IJPSCHRT01-WM, IJPSCHRT01-WM24, IJPSCHRT01-WM30, IJPSCHRT01-WM2, IJPVW01-5B; IJPSCHRT01WC2; IJPSCHRT01WCD6; IJPSCHRT01XXX, IJPSCHRT01-XX, IJPSCHRT01-XXX; TY-1799, TY-2252, TY-1955, TY-2231												
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is Housing.												
Product Description	:	<table border="1"> <tr> <td>Operation Frequency:</td> <td>Bluetooth V5.0(BT): 2402~2480 MHz</td> </tr> <tr> <td>Number of Channel:</td> <td>Bluetooth 5.0(BT): 79 channels</td> </tr> <tr> <td>RF Output Power:</td> <td>1.142dBm (Max)</td> </tr> <tr> <td>Antenna Gain:</td> <td>-3.0dBi PCB Antenna</td> </tr> <tr> <td>Modulation Type:</td> <td>GFSK</td> </tr> <tr> <td>Bit Rate of Transmitter:</td> <td>1Mbps</td> </tr> </table>	Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz	Number of Channel:	Bluetooth 5.0(BT): 79 channels	RF Output Power:	1.142dBm (Max)	Antenna Gain:	-3.0dBi PCB Antenna	Modulation Type:	GFSK	Bit Rate of Transmitter:	1Mbps
Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz													
Number of Channel:	Bluetooth 5.0(BT): 79 channels													
RF Output Power:	1.142dBm (Max)													
Antenna Gain:	-3.0dBi PCB Antenna													
Modulation Type:	GFSK													
Bit Rate of Transmitter:	1Mbps													
Power Supply	:	Input: 3*1.5 AA Battery												
Software Version	:	V1.0												
Hardware Version	:	V2.0												
Remark: 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 ≤ 5 mm are determined by:

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}] \leq 7.5.0$ 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	1.142	1±1	2.0	1.585	0.491	3.0
2.441	0.48	0±1	1.0	1.259	0.393	3.0
2.480	-1.093	-1±1	0	1.000	0.315	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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