

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202208-0311-7 Page:1 of 3

RF Exposure Evaluation FCC ID: 2A8ME-TE-RCSS-003

1. Client Information

Applicant		Shenzhen Telesin Digital Ltd				
Address	 Room 526, 5/F, Block B, Bairuida Building, Van ke City Commun Bantian Street, Longgang District, Shenzhen, Guangdong, China.518000 					
Manufacturer	-	Shenzhen Telesin Digital Ltd				
Address Room 526, 5/F, Block B, Bairuida Building, Van ke City Com Bantian Street, Longgang District, Shenzhen, Guangdong, China.518000						

2. General Description of EUT

EUT Name	:	1.3M Selfie Stick Tripod with Remote Control					
Model(s) No.	3	TE-RCSS-003					
THE PARTY	5	Operation Frequency:	Bluetooth 5.1: 2402MHz~2480MHz Bluetooth 5.1(BLE): 2402MHz~2480MHz				
Product Description		Number of Channel: Bluetooth 5.1: 79 channels Bluetooth 5.1(BLE):40 channels					
		Antenna Gain:	-0.58 dBi PCB Antenna				
		Modulation Type:	GFSK, Pi/4-DQPSK, 8-DPSK(3Mbps) Bluetooth LE:1/2Mbps				
		Bit Rate of Transmitter:	1/2/3Mbps				
Power Supply	:	USB Input: DC 5V, 100mA DC 3.7V by 40mAh Rechargeable Li-ion battery					
Software Version		1.0					
Hardware Version	:	1.0					

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

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

TB-RF-074-1. 0

Report No.: TBR-C-202208-0311-7 Page: 2 of 3

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

2. Summary simultaneous transmission for SAR Exclusion

The SAR exemption limits outlined in clause 4.3.2(b) of KDB 447498 have been derived based on an approximate SAR value of 0.4 W/kg using half-wave dipole antennas Footnote 1. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tune-up tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg(2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) * 0.4W/kg

1) [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[$\sqrt{f_{(GHz)}/x}$] W/kg, for test separation distances \leq 50 mm;

where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is > 50 mm.³⁷

The [Σ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [Σ of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [Σ of MPE ratios] is ≤ 1.0 .

3. Calculation:

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	O an desated		uetooth 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	2.696	3±1	4	2.512	0.779	3.0
2.441	3.28	3±1	4	2.512	0.785	3.0
2.480	3.665	4±1	5	3.162	0.996	3.0
6	100	Bluet	tooth Mode (Pi/4-DQPS	К)		
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	3.452	3±1	4	2.512	0.779	3.0
2.441	3.809	4±1	5	3.162	0.988	3.0
2.480	1.49	1±1	2	1.585	0.499	3.0
		Blue	etooth Mode (8-DQPSK	()		
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	2.575	3±1	4	2.512	0.779	3.0
2.440	2.17	2±1	3	1.995	0.623	3.0
2.480	1.984	2±1	3	1.995	0.628	3.0
1200		Blue	etooth LE Mode(1Mbps	;)		
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	0.869	1±1	2	1.585	0.491	3.0
2.440	0.105	0±1	1	1.259	0.393	3.0
2.480	-0.784	-1±1	0	1.000	0.315	3.0
		Blue	etooth LE Mode(2Mbps	\$)		
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	0.896	1±1	2	1.585	0.491	3.0
2.440	0.143	0±1	1	1.259	0.393	3.0
2.480	-0.733	-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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