Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AGHDLSP-297

1. Client Information

Applicant: ORE SMART TECHNOLOGY CO., LIMITED

Address: BAIYUNSHAN ROAD, CHENJIANG TOWN, HUIZHOU, GUANGDONG,

CHINA

Manufacturer : ORE SMART TECHNOLOGY CO., LIMITED

Address: BAIYUNSHAN ROAD, CHENJIANG TOWN, HUIZHOU, GUANGDONG,

CHINA

2. General Description of EUT

EUT Name		Water Resistant Shower Bluetooth Speaker				
Models No.	:	LSP-297				
Model difference	: '	N/A				
Product Description		Operation Frequency: Bluetooth:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	Bluetooth: 4.786 dBm(GFSK)			
		Antenna Gain:	0 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)			
Power Supply	:	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.				
Power Rating	Ġ	DC 5.0V by USB cable. DC 3.7V 400mAh Li-ion Battery.				
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.

TB-RF-074-1. 0

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (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



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2.

Calculation:

		Bluetooth Mode	(CESK)		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	4.615	±0.5	3.247	1.007	3.0
2.441	4.786	±0.5	3.378	1.055	3.0
2.480	4.586	±0.5	3.226	1.016	3.0
		Bluetooth Mode (/4-DQPSK)	LAND F	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.441	±0.5	2.478	0.768	3.0
2.441	3.551	±0.5	2.542	0.794	3.0
2.480	3.425	±0.5	2.469	0.778	3.0
33		Bluetooth Mode	(8-DPSK)		33
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.230	±0.5	2.360	0.732	3.0
2.441	3.505	±0.5	2.515	0.786	3.0
2.480	3.458	±0.5	2.488	0.784	3.0

So standalone SAR measurements are not required.