RF Exposure Evaluation
FCC ID: 2A3FL-SA-201

1. Client Information

Applicant	:	SHENZHEN SADES INTELLIGENT TECHNOLOGY CO., LTD.
Address	:	9F, RUN CHUANGXING TIMES BLDG., LIPU ST., BULONG RD., LONGGANG DISTRICT, SHENZHEN, China
Manufacturer	:	SHENZHEN SADES INTELLIGENT TECHNOLOGY CO., LTD.
Address		9F, RUN CHUANGXING TIMES BLDG., LIPU ST., BULONG RD., LONGGANG DISTRICT, SHENZHEN, China

2. General Description of EUT

EUT Name	:	Bluetooth headset	
Model(s) No.	:	SA-201, SA-202, SA-203, SA-204, SA-205, B130, B13, B132, B133, B134, L12, L13, L15, L60, L61	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is the colors and model name.	
Product Description	:	Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz
		Number of Channel:	Bluetooth: 79 Channels
		Max Peak Output Power:	Bluetooth: 3.645 dBm(π/4-DQPSK)
		Antenna Gain:	0.5 dBi PCB Antenna
		Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps)
Power Supply	:	Input: Output DC 5V DC 3.7V by 1000mAh Li-ion battery	
Software Version	:	V2.7	
Hardware Version	:	V1.3	
Remark: The antenna gain and adapter 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.

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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 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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤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	3.182	3±1	4	2.512	0.779	**3.0**
2.441	1.387	1±1	2	1.585	0.495	**3.0**
2.480	1.319	1±1	2	1.585	0.499	**3.0**
Bluetooth Mode (π/4-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	3.267	3±1	4	2.512	0.779	**3.0**
2.441	1.655	1±1	2	1.585	0.495	**3.0**
2.480	1.855	1±1	2	1.585	0.499	**3.0**
Bluetooth 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	3.645	3±1	4	2.512	0.779	**3.0**
2.441	2.095	2±1	3	1.995	0.623	**3.0**
2.480	2.357	2±1	3	1.995	0.628	**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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