

RF Exposure Evaluation

FCC ID: 2BA70-SRBDLLCL

1. Client Information

Applicant	:	Super Real Business Deals LLC
Address	:	30 N Gould St Ste R Sheridan WY 82801
Manufacturer	:	Super Real Business Deals LLC
Address	:	30 N Gould St Ste R Sheridan WY 82801

2. General Description of EUT

EUT Name	:	Speakerbag
Model(s) No.	:	SRBDLLCL, SRBBP, SRBBP1, SRBBP2, SRBBP3, SRBBP4, SRBBP5, SRBBP6, SRBBP7, SRBBP8, SRBBP9, SRBBP10, SRBBP11, SRBBP12, SRBBP13, SRBBP14, SRBBP15, SRBBP16, SRBBP17, SRBBP18, SRBBP19, SRBBP20, SRBC, SRBC1, SRBC2, SRBC3
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is that color.
Product Description	:	RF Output Power: BT: 2.646dBm
	:	Antenna Gain: 1.3dBi PCB Antenna
Power Rating	:	DC 3.7V by 4400mAh Rechargeable Li-ion battery
Software Version	:	MBE-AB5363B_4D39B6C7(Super Real Bluetooth)2021-6-1
Hardware Version	:	MBE-CS-21-5-22-V3
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.

The RF Exposure Evaluation for FCC:

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:

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

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

Calculation:

Test separation: 5mm							
Bluetooth							
Mode	Frequency (MHz)	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
GFSK	2402	-0.399	0±1	1	1.259	0.39	3.0
	2441	-1.209	-1±1	0	1.000	0.31	3.0
	2480	-1.986	-2±1	-1	0.794	0.25	3.0
π/4-DQPSK	2402	1.979	2±1	3	1.995	0.62	3.0
	2441	1.111	1±1	2	1.585	0.50	3.0
	2480	0.339	0±1	1	1.259	0.40	3.0
8-DPSK	2402	2.646	3±1	4	2.512	0.78	3.0
	2441	1.775	2±1	3	1.995	0.62	3.0
	2480	0.974	1±1	2	1.585	0.50	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, No SAR is required.

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