

RF Exposure Evaluation

FCC ID: 2BA70-SRBDLLCS

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.	:	SRBDLLCS, SRBFP, SRBFP1, SRBFP2, SRBFP3, SRBFP4, SRBFP5, SRBFP6, SRBFP7, SRBFP8, SRBFP9, SRBFP10, SRBFP11, SRBFP12, SRBFP13, SRBFP14, SRBFP15, SRBFP16, SRBFP17, SRBFP18, SRBFP19, SRBFP20, SRBFP21, SRBFP22, SRBFP23
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is that color.
Product Description	:	RF Output Power: BT: 0.261dBm
	:	Antenna Gain: 1.3dBi PCB Antenna
Power Rating	:	DC 3.7V by 600mAh Rechargeable Li-ion battery
Software Version	:	MBE-02-AB5365B_7B4F994C(Super Real Bluetooth)-fw5000-2021-9-7
Hardware Version	:	MBE-02-NS4250-2.2
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:

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

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

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	-2.694	-3 ± 1	-2	0.63	0.20	3.0
	2441	-2.279	-2 ± 1	-1	0.79	0.25	3.0
	2480	-3.566	-4 ± 1	-3	0.50	0.16	3.0
$\pi/4$ -DQPSK	2402	-0.725	-1 ± 1	0	1.00	0.31	3.0
	2441	-0.704	-1 ± 1	0	1.00	0.31	3.0
	2480	-1.31	-1 ± 1	0	1.00	0.31	3.0
8-DPSK	2402	0.261	0 ± 1	1	1.26	0.39	3.0
	2441	0.015	0 ± 1	1	1.26	0.39	3.0
	2480	-0.829	-1 ± 1	0	1.00	0.31	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.

-----END OF REPORT-----