

RF Exposure Evaluation

FCC ID: SLA-DP9651

1. Client Information

Applicant	:	DEPO Manufacturing Corp., Ltd.
Address	:	Unit 7D3, 7/F, Block CD, Tian Xiang building, Chegongmiao, Futian, Shenzhen, China
Manufacturer	:	SHENZHEN JIAXINGWEI DIGITAL TECHNOLOGY CO.LTD
Address	:	4Floor, 3th Building, Yuye Industrial Area, Zhoushi Road, Baoan District, Shenzhen City, Guangdong Province, China

2. General Description of EUT

EUT Name	:	PORTABLE WIRELESS SPEAKER	
Models No.	:	DP9651	
Model Difference	:	N/A	
Product Description	:	Operation Frequency:	Bluetooth 3.0(BT): 2402MHz~2480MHz
	:	RF Output Power:	GFSK: -0.565dBm π /4-DQPSK: 0.599dBm
	:	Antenna Gain:	2dBi PCB Antenna
Power Supply	:	DC Voltage Supply from USB Port. DC Voltage supplied by Li-ion battery.	
Power Rating	:	DC 5.0V by USB cable DC 3.7V by 400mAh Li-ion battery	
Software Version	:	AC69xx_v2012	
Hardware Version	:	HF-8078	
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.

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:

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

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

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	-0.565	-1±1	0	1	0.310	3.0
2.441	-0.572	-1±1	0	1	0.312	3.0
2.480	-1.369	-1±1	0	1	0.315	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	0.580	0±1	1	1.259	0.390	3.0
2.441	0.599	0±1	1	1.259	0.393	3.0
2.480	-0.181	0±1	1	1.259	0.397	3.0

Test separation: 5mm	
The worst RF Exposure Evaluation	
Worst Calculation Value	Threshold Value
0.397	3.0

The worst RF Exposure Evaluation is $0.397 / \text{cm}^2 < \text{limit } 3.0$, So standalone SAR measurements are not required.

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