

TEST REPORT

Maximum Permissive Exposure

for

Products Name: Miffy EarBuds

Model No.: M165

FCC ID: SL7-M165

Report No.: SST2607E391

Issued Date: 2026-7-31

Issued for

Shenzhen Baojia Battery Technology Co., Ltd.

Block A, Yonghe Road, Tongfuyu Industrial Zone, Heping, Fuyong, Baoan, Shenzhen, 518103, China

Issued by

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1. Basic Introduction

Applicant's name :	Shenzhen Baojia Battery Technology Co., Ltd.	
Address	Block A, Yonghe Road, Tongfuyu Industrial Zone, Heping, Fuyong, Baoan, Shenzhen, 518103, China	
Manufacturer's name	Shenzhen Baojia Battery Technology Co., Ltd.	
Address	Block A, Yonghe Road, Tongfuyu Industrial Zone, Heping, Fuyong, Baoan, Shenzhen, 518103, China	
Factory's name	Shenzhen Baojia Battery Technology Co., Ltd.	
Address	Block A, Yonghe Road, Tongfuyu Industrial Zone, Heping, Fuyong, Baoan, Shenzhen, 518103, China	
Products Name :	Miffy EarBuds	
Model No. :	M165	
Trade Mark	MIPOW, MIPOW X MIFFY	
Rating(s) :	DC 3.7V 30mAh battery for earphones DC 3.7V 400mAh battery for charging case Or DC 5V by external power supply	
Software version..... :	/	
Hardware version	/	
Operation frequency..... :	2402MHz ~ 2480MHz	
Channel numbers	79	
Channel separation	1MHz	
Modulation technology	GFSK, pi/4 DQPSK, 8DPSK	
Antenna type	Chip Antenna	
Antenna gain	1.95 dBi	
Date of sample receipt :	2026-7-21	
Date of Test :	2026-7-21~2026-7-31	
Standard(s)	FCC 47 CFR PART 1.1310 FCC 47 CFR PART 1.1307 KDB 447498 D04	
Tested by (+signature) :	Connor Ma	
Check by (+signature) :	Davis Zhou	
Approved by (+signature) :	Tiger Chen	



2. RF EXPOSURE EVALUATION MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 Introduction

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC Rules and Regulations and RSS-102 of Industry Canada.

The limit for maximum permissible exposure(MPE), specific in §1.1307of the FCC Rules and KDB 447498 D04 were list in below

The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).
 The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

For multiple RF sources

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

2.2 MPE Calculation

Type	Frequency (MHz)	Antenna Gain (dBi)	Output power (dBm)	Output power (mW)	ERP (dBm)	ERP (mW)	Limit (mW, d=0.5cm)	Ratio (%)	Result
BT	2480	1.95	3.99	2.51	3.79	2.39	2.7	92.23	PASS

Note: The available RF source will be Maximum time-averaged power or ERP, whichever is greater.
 $P_{th} = 3060 * (d/20)^x$, where x is $-\log_{10}(60/3060 * \sqrt{F, \text{ in GHz}})$;
eg: $3060 * (0.5/20)^{-\log_{10}(60/3060 * \sqrt{2.48})} = 2.7$

3 Conclusion

The device meets the portable RF exposure limit at a minimum separation distance as specified in §2.1093 of the FCC Rules and Regulations. An appropriate RF exposure compliance statement will be placed in the user's manual.

*****End of report*****