**Product Name: Wireless Speaker** 

**Model Number: YY7866E** 

FCCID:AK8YY7866E

## RADIO FRREQUENCY EXPOSURE COMPLIANCE RESULT:

1.According to FCC KDB Publication 447498 D04V01Appendix BB.4 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

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

where

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

and f is in GHz, d is the separation distance (cm), and  $ERP_{20cm}$  is per Formula (B.1) in KDB44749 D04 V01, The example values shown in Table B.2 are for illustration only.

test separation distance=10mm , due to the antenna location  $\mbox{\sc f=}2.45\mbox{\sc GHz}$ 

the calculate the Pth (mW)=10.2mW

Refer to the KDB447498 Table B.2, the SAR test exclusion threshold for 2450MHz at 10mm test separation distances is 10mW

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
Frequency (MHz)		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

According to the actual measurement,

The maximum time-averaged ERP( whichever is greater )=9.917mW ,Which less than the

Pth ( mW ) ,so the SAR test can be exempted.