

FCC KDB Publication 447498 D04V01 Appendix B

FCC RF exposure Test Report

for

Tonly Technology Co., Ltd.

**Section 37, Zhongkai High-tech Development Zone, Huizhou
City, Guangdong Province, P.R. China**

Product Name : WIRELESS SPEAKER
Model Name : YY7870E
Brand : SONY
FCC ID : ZVAYY7870E

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

TEST REPORT

Applicant : Tonly Technology Co., Ltd.
Manufacturer : Sony Group Corporation
EUT Description
(1) Product : WIRELESS SPEAKER
(2) Model : YY7870E
(3) Brand : SONY
(4) Power Supply : AC 120V, 60Hz

Applicable Standards:

FCC KDB Publication 447498 D04V01 Appendix B

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

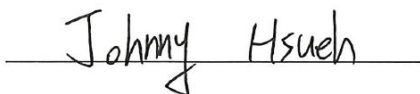
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1. SUMMARY OF TEST RESULTS

Rule	Description	Results
FCC		
FCC KDB Publication 447498 D04V01 Appendix B	FCC RF exposure	PASS
Note: The uncertainties value is not used in determining the result.		

2. TEST RESULTS

RADIO FREQUENCY EXPOSURE COMPLIANCE RESULT :

Test Standard : FCC KDB Publication 447498 D04V01 Appendix B, 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 P_{th} (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). P_{th} is given by Formula (B.2).

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

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

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) in KDB44749 D04 V01, The example values shown in Table B.2 are for illustration only.

According to the actual measurement,

max. power of channel, including tune-up tolerance $ERP=57.28\text{mW}$ (ERP is from customer Spec)

min. test separation distance= 53.47mm (antenna location from customer) due to the antenna location

Refer to the KDB447498 Table B.2, the SAR test exclusion threshold (P_{th}) for 2450MHz at 53.47mm test separation distances is 248.85mW (calculate From B.1/2)

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

The ERP result is $57.28\text{mW} \leq 248.85\text{mW}(P_{th})$, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D04:RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices.