

TEST REPORT

Product Name : Wireless audio adapter
Brand Mark : N/A
Model No. : ML302
FCC ID : 2A6ET-RT6007
Report Number : BLA-EMC-202311-A5603
Date of Sample Receipt : 2023/11/22
Date of Test : 2023/11/27 to 2023/12/5
Date of Issue : 2023/12/5
Test Standard : KDB447498D04 General RF Exposure
Guidance v01
Test Result : Pass

Prepared for:

ShenZhen Ankbit Electronics Limited
Room 401, Building B, Runfeng Industrial Park, No. 4197 Baoan
Blvd.Xixiang St., Baoan Dist, Shenzhen, China

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyao Sub-District, Baoan District,
Shenzhen, Guangdong Province, China
TEL: +86-755-23059481

Compiled by:

Lucas

Review by:

Sueels

Approved by:

Blue.Zheng

Date:

2023/12/5



REPORT REVISE RECORD

Version No.	Date	Description
00	2023/12/5	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	KDB447498D04 General RF Exposure Guidance v01	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

2 GENERAL INFORMATION

Applicant	ShenZhen Ankbit Electronics Limited
Address	Room 401, Building B, Runfeng Industrial Park, No. 4197 Baoan Blvd.Xixiang St., Baoan Dist, Shenzhen, China
Manufacturer	ShenZhen Ankbit Electronics Limited
Address	Room 401, Building B, Runfeng Industrial Park, No. 4197 Baoan Blvd.Xixiang St., Baoan Dist, Shenzhen, China
Factory	N/A
Address	N/A
Product Name	Wireless audio adapter
Test Model No.	ML302

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	RT6007_QCC3040_V2.0
Software Version	RT6007(ML302).1.0.7
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	BREDR:GFSK,pi/4DQPSK,8DPSK
Channel Spacing:	BREDR:1MHz
Number of Channels:	BREDR:79
Antenna Type:	PCB Antenna
Antenna Gain:	2.47dBi(Provided by the customer)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 LIMITS

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

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).

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

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

Ant gain = 2.47dBi

Max Output power =1.635dBm @BR@ 2480MHz

ERP = 1.635dBm+2.47dBi-2.15=1.955dBm

So

worse case :

$10^{0.1955}=1.569\text{mW} < 2.72 \text{ mW}$

Comply with RF exposure exemption limit.

----END OF REPORT----

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