

TEST REPORT		
Report Number. :	90479-25-72-25-PP003	
Date of issue :	2025.05.26	
Prepared by (+signature)..... :	Pale	
Reviewer (+signature)..... :	Duke	
Approved by (+signature) :	Jason	
Testing Laboratory name :	SLG-CPC Testlaboratory Co., Ltd.	
Address	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People' s Republic of China	
Applicant's name	Audio Enhancement, Inc.	
Address	9858 South Audio Drive West Jordan United States 84081 Of America	
Manufacturer's name	Barix AG	
Address	Limmatquai 120 CH-8001 Zuerich Switzerland	
Factory's name	MOKO TECHNOLOHY Ltd	
Address	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110	
Standard(s)	FCC 1.1310: §1.1307(b)	
Test item description	Barix BLE Receiver	
Trade Mark	N/A	
Model/Type reference	BARIXBR-32	
FCC ID	2BOMJ-BARIXBR-32	
Date of receipt of test item	2025.05.14	
Date (s) of performance of test:	2025.05.14- 2025.05.24	
Test Report Form No. :	FCC CFR Part 1_B1	
Master TRF..... :	Dated 2021-09	
Summary of Test Results	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SLG-CPC Testlaboratory Co., Ltd. The test results in the report only apply to the tested sample.

Table of Contents

1. EUT Specification	4
2. Test Requirement.....	5
3. Measurement Result.....	6

Modified History

Report No.	Revision Date	Summary
90479-25-72-25-PP003	2025.05.26	Original Report

1. EUT Specification

Product:	Barix BLE Receiver
Model Number:	BARIXBR-32
Power supply:	☒ : DC 24V ☐ : Adapter information
Modulation:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) BLE(GFSK)
Frequency Range:	IEEE 802.11b/g: 2412 ~ 2472 MHz IEEE 802.11n HT20 : 2412 ~ 2472 MHz IEEE 802.11n HT40 : 2422 ~ 2462 MHz BLE: 2402MHz~2480MHz
Number of Channels:	IEEE 802.11b: 13 Channels IEEE 802.11g: 13 Channels IEEE 802.11n HT20: 13 Channels IEEE 802.11n HT40: 9 Channels BLE:40channels
Antenna Gain:	3.75dBi
Antenna:	PCB Antenna

2. Test Requirement

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Measurement Result

Mode	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)	Target power (dBm)	Maximum tune-up Power (mW)	Antenna gain		Power Density (S) (mW/cm ²)	Limited of Power Density (S) (mW/cm ²)	Test Result
						(dBi)	(Linear)			
BLE-GFSK	2402	3.02	2.00	3±1	2.51	3.75	2.37	0.0119	1	Complies
	2440	3.78	2.39	3±1	2.51	3.75	2.37	0.0119	1	Complies
	2480	4.02	2.52	4±1	3.16	3.75	2.37	0.0150	1	Complies

Mode	Frequency (MHz)	output power (dBm)	output power (mW)	Target power (dBm)	Maximum tune-up Power (mW)	Antenna gain		Power Density (S) (mW/cm ²)	Limited of Power Density (S) (mW/cm ²)	Test Result
						(dBi)	(Linear)			
IEEE 802.11b	2412	14.02	25.24	14±1	31.62	3.75	2.37	0.1499	1	Compiles
	2442	14.56	28.58	14±1	31.62	3.75	2.37	0.1499	1	Compiles
	2472	13.91	24.60	14±1	31.62	3.75	2.37	0.1499	1	Compiles
IEEE 802.11g	2412	9.96	9.91	10±1	12.59	3.75	2.37	0.0597	1	Compiles
	2442	10.25	10.59	10±1	12.59	3.75	2.37	0.0597	1	Compiles
	2472	10.49	11.19	10±1	12.59	3.75	2.37	0.0597	1	Compiles
IEEE 802.11n HT20	2412	10.34	10.81	10±1	12.59	3.75	2.37	0.0597	1	Compiles
	2442	9.67	9.27	10±1	12.59	3.75	2.37	0.0597	1	Compiles
	2472	9.58	9.08	10±1	12.59	3.75	2.37	0.0597	1	Compiles
IEEE 802.11n HT40	2422	7.27	5.33	7±1	6.31	3.75	2.37	0.0299	1	Compiles
	2442	7.12	5.15	7±1	6.31	3.75	2.37	0.0299	1	Compiles
	2462	7.31	5.38	7±1	6.31	3.75	2.37	0.0299	1	Compiles

、

Power Density (S) (mW/cm ²)			Limited of Power Density (S) (mW/cm ²)	Test Result
BT	WIFI	Sum		
0.0150	0.1499	0.1649	1	Complies

The Maximum power is less than the limit, complies with the exemption requirements, SAR is exempted.

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90477-25-72-25-PP001; 90477-25-72-25-PP002.

THE END

声明 Statement

1. 本报告无授权批准人签字及盖章无效;

This report is invalid without the signature and seal of the authorized approver.

2. 未经许可本报告不得部分复制;

This report shall not be copied partly without authorization.

3. 本报告的检测结果仅对送测样品有效, 委托方对样品的代表性和资料的真实性负责;

The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.

4. 本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内, 仅作为客户委托、科研、教学或内部质量控制等目的使用;

The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

5. 本检测报告以实测值进行符合性判定, 未考虑不确定度所带来的风险, 本实验室不承担相关责任, 特别约定、标准或规范中有明确规定的除外;

The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, SLG-CPC shall not assume any responsibility.

6. 对本检测报告若有异议, 请于收到报告之日起 20 日内提出;

Objections shall be raised within 20 days from the date receiving the report.