



FCC RF Exposure Evaluation

1. Product Information

FCC ID : 2AU63-R37R
Product name : Smart Ear Cleaning Device
Test Model : R37R
Additional Model No. : B31R, B31R Pro, B31R Pro Max, B31R Plus, B31R Max, B31R S, B31R SE, B31R Ultra, B31R+, B31R Pro+, bebird 3 B31R, bebird 3 B31R Pro, bebird 3 B31R Pro Max, bebird 3 Plus B31R , bebird 3 B31R Max, bebird 3 B31R S, bebird 3 B31R SE, bebird 3 B31R Ultra, bebird 3 B31R+, bebird 3 B31R Pro+, bebird EarSight SE B31R, bebird EarSight Plus B31R, Xlife B31R, Xlife B31R Pro, Xlife B31R Pro Max, Xlife B31R Plus, Xlife B31R Max, Xlife B31R S, Xlife B31R SE, Xlife B31R Ultra, Xlife B31R+, Xlife B31R Pro+, B31R+ Plus, Xlife B31R+ Plus, E33R, E33R Pro, E33R Pro Max, E33R Plus, E33R Max, E33R S, E33R SE, E33R Ultra, E33R+, E33R Pro+, bebird 3 E33R, bebird 3 E33R Pro, bebird 3 E33R Pro Max, bebird 3 Plus E33R , bebird 3 E33R Max, bebird 3 E33R S, bebird 3 E33R SE, bebird 3 E33R Ultra, bebird 3 E33R+, bebird 3 E33R Pro+, bebird EarSight SE E33R, bebird EarSight Plus E33R, Xlife E33R, Xlife E33R Pro, Xlife E33R Pro Max, Xlife E33R Plus, Xlife E33R Max, Xlife E33R S, Xlife E33R SE, Xlife E33R Ultra, Xlife E33R+, Xlife E33R Pro+, E33R+ Plus, Xlife E33R+ Plus, I35R, I35R Pro, I35R Pro Max, I35R Plus, I35R Max, I35R S, I35R SE, I35R Ultra, I35R+, I35R Pro+, bebird 3 I35R, bebird 3 I35R Pro, bebird 3 I35R Pro Max, bebird 3 Plus I35R , bebird 3 I35R Max, bebird 3 I35R S, bebird 3 I35R SE, bebird 3 I35R Ultra, bebird 3 I35R+, bebird 3 I35R Pro+, bebird EarSight SE I35R, bebird EarSight Plus I35R, Xlife I35R, Xlife I35R Pro, Xlife I35R Pro Max, Xlife I35R Plus, Xlife I35R Max, Xlife I35R S, Xlife I35R SE, Xlife I35R Ultra, Xlife I35R+, Xlife I35R Pro+, I35R+ Plus, Xlife I35R+ Plus, R37R Pro, R37R Pro Max, R37R Plus, R37R Max, R37R S, R37R SE, R37R Ultra, R37R+, R37R Pro+, bebird 3 R37R, bebird 3 R37R Pro, bebird 3 R37R Pro Max, bebird 3 Plus R37R , bebird 3 R37R Max, bebird 3 R37R S, bebird 3 R37R SE, bebird 3 R37R Ultra, bebird 3 R37R+, bebird 3 R37R Pro+, bebird EarSight SE R37R, bebird EarSight Plus R37R, Xlife R37R, Xlife R37R Pro, Xlife R37R Pro Max, Xlife R37R Plus, Xlife R37R Max, Xlife R37R S, Xlife R37R SE, Xlife R37R Ultra, Xlife R37R+, Xlife R37R Pro+, R37R+ Plus, Xlife R37R+ Plus, D39R, D39R Pro, D39R Pro Max, D39R Plus, D39R Max, D39R S, D39R SE, D39R Ultra, D39R+, D39R Pro+, bebird 3 D39R, bebird 3 D39R Pro, bebird 3 D39R Pro Max, bebird 3 Plus D39R , bebird 3 D39R Max, bebird 3 D39R S, bebird 3 D39R SE, bebird 3 D39R Ultra, bebird 3 D39R+, bebird 3 D39R Pro+, bebird EarSight SE D39R, bebird



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	EarSight Plus D39R, Xlife D39R, Xlife D39R Pro, Xlife D39R Pro Max, Xlife D39R Plus, Xlife D39R Max, Xlife D39R S, Xlife D39R SE, Xlife D39R Ultra, Xlife D39R+, Xlife D39R Pro+, D39R+ Plus, Xlife D39R+ Plus
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: Input: DC 5V, 500mA Battery: DC 3.7V, 230mAh
Hardware Version	: V1.0
Software Version	: V1.0
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Internal Antenna, 0.12dBi(Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Portable Device
Date of Test	: November 07, 2024 ~ November 14, 2024
Date of Report	: November 15, 2024

2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \left[\sqrt{f \text{ (GHz)}} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$



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- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

a) The $[\sum \text{of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance)} / 1.6 \text{ W/kg}] + [\sum \text{of MPE ratios}]$ is ≤ 1.0 .

b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the $[\sum \text{of MPE ratios}]$ is ≤ 1.0 .

3. Refer Evaluation Method

[ANSI C95.1–1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices

4. Conducted Power Results

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11B	1	2412	8.61
	6	2437	8.52
	11	2462	8.26
11G	1	2412	8.06
	6	2437	7.84
	11	2462	8.24
11N20 SISO	1	2412	7.46
	6	2437	7.23
	11	2462	7.03
11N40 SISO	3	2422	6.84
	6	2437	7.19
	9	2452	6.72



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5. Manufacturing Tolerance

[2.4G WIFI]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	7.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	6.0	7.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

6. Evaluation Results

6.1 Standalone Evaluation

[2.4G WIFI]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
IEEE 802.11b	2.412	5	9.0	7.9433	2.4673 < 3.0	Yes
IEEE 802.11g	2.462	5	9.0	7.9433	2.4927 < 3.0	Yes
IEEE 802.11n HT20	2.412	5	8.0	6.3096	1.9598 < 3.0	Yes
IEEE 802.11n HT40	2.437	5	8.0	6.3096	1.9700 < 3.0	Yes

Remark:

1. Output power including tune up tolerance;
2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one BT modular. No need consider simultaneous transmission.

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.





8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

.....THE END OF REPORT.....

