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Maximum Permissive Exposure

FCC ID: AK8YY2089C2
 EUT Name: Active Subwoofer
 M/N: YY2089C2

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation

We declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Note: $\pi=3.1416$ in this report.



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2.1. Estimation Result

EUT:ACTIVE SUBWOOFER		
M/N:YY2089C2		
Date: 2024-10-24	Pressure: 102.6 ± 1.0 kpa	Humidity: $54.4 \pm 3.0\%$
Tested by: Winter	Test Site: RF site	Temperature: 23.6 ± 0.6 °C

Test Mode	Test Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	Power Density (mW/cm ²)	Result
BDR	20	7.217	5.27	2.1	2.17	0.0023	PASS
EDR		8.257	6.69	2.1	2.93	0.0039	PASS
BLE 1M		4.540	2.84	2.1	1.56	0.0009	PASS
BLE 2M		4.403	2.76	2.1	1.54	0.0008	PASS
2.4G		6.999	5.01	2.61	2.07	0.0021	PASS
2.4G+BT		--	--	--	--	--	0.006