1. Product Information

FCC RF Exposure Evaluation

1. Product information							
FCC ID:	2AMJR-WE10						
Product name	WE10 Dual Channel Compact Wireless Microphone System						
Model number	WE10						
Additional Model No	WE1						
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, 400mA battery: DC 3.7V, 350mAh						
Frequency Range	2403MHz-2478MHz (2403MHz, 2406MHz, 2409MHz, 2412MHz, 2415MHz, 2418MHz, 2421MHz, 2424MHz, 2427MHz, 2430MHz, 2433MHz, 2436MHz, 2439MHz, 2442MHz, 2445MHz, 2448MHz, 2451MHz, 2454MHz, 2457MHz, 2460MHz, 2463MHz, 2466MHz, 2469MHz, 2472MHz, 2475MHz, 2478MHz)						
Modulation Type	GFSK						
Channel Number	26						
Antenna Type	PCB Antenna						
Antenna Gain	OdBi(Max.)						
Hardware version	V1.0						
Software version	V1.0						
Exposure category	General population/uncontrolled environment						
EUT Type	Production Unit						
Device Type	Protable Device						

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 gualify 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.23 " [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] · [Vf (GHz)]

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- \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:
- 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.</p>

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.

<u>FCC KDB publication 447498 D01 General RF Exposure Guidance v06:</u> 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

Mode	Channel	Frequency(MHz)	Peak Conducted Output Power	
			(dBm)	
GFSK	0	2403	1.352	
	13	2439	1.254	
	26	2478	0.361	

5. Manufacturing tolerance

(Peak)									
Channel	Channel 0	Channel 13	Channel 39						
Target (dBm)	1	1	0						
Tolerance ±(dB)	1	1	1						

6. Evaluation Results

	f (GHz)	Antenna	RF output power		SAR Test Evolusion	SAR Test
Band/Mode f		Distance (mm)	dBm	mW	SAR Test Exclusion Threshold	Exclusion
GFSK	2.45	5	2.0	1.5849	0.4962 < 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.

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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.

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

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