

## RADIO FREQUENCY EXPOSURE

### Product Information

EUT : Wireless Microphone  
Model Number : M1,M5,M6,M7,M8,M9,M10,M11,M12,M13,M14,M15,MF05,MF06,MF07  
,MF08,MF09,MF10,MF11,MF12,MF13,MF14,MF15  
Model Declaration : All the same except for the model name  
Test Model : M1  
Power Supply : DC 3.7V  
Hardware version : M1-TX REV:1.0 20210415  
Software version : V01  
Sample ID : TZ210902564-1#

### Wireless Microphone

Frequency Range : Band A: 551.225-565.925 MHz  
: Band B: 573.325-588.025 MHz  
Channel Number : Band A: 50  
: Band B: 50  
*Note:Channel list shows in table 1.1.1*  
Modulation Technology : FM  
Antenna Type And Gain : Integral Antenna, 0.0dBi (Max.)

*Note: Antenna position refer to EUT Photos.*

## Limit

According to section 4.3.1 of KDB 447498 D01 General RF Exposure Guidance v06:

### 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(s), listed below, is (are) 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. The minimum test separation distance defined in 4.1 f) 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. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for 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 and tablets, etc.

a) For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 4.1 f) is applied to determine SAR test exclusion.

## Radiated Power Results

Frequency (MHz)	Burst Average ERP(dBm)	Manufacturing tolerance (dBm)
551.225	5.62	5.5(+/- 1)
558.425	5.17	5.5(+/- 1)
565.925	5.33	5.5(+/- 1)
573.325	4.50	5.0(+/- 1)
580.525	5.71	5.5(+/- 1)
588.025	4.41	5.0(+/- 1)

## Results

Channel Frequency (MHz)	Max. Tune Up Power(dBm)	Distance(mm)	Calculate Result	Upper limit
551.225	6.50	5	0.7	3
558.425	6.50	5	0.7	3
565.925	6.50	5	0.7	3
573.325	6.00	5	0.6	3
580.525	6.50	5	0.7	3
588.025	6.00	5	0.6	3

the Routine Evaluation Exemption according to section 4.3.1 of KDB 447498 D01.

So, the SAR evaluation is not required.