

RF Exposure Evaluation

Test report
On Behalf of

Shenzhen Travor Technology Co, Ltd.

For
Wireless microphone

Model No.: KW-M01

FCC ID: 2AVXN-KW-M01

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1 General Description of EUT

Equipment	Wireless microphone
Model Name	KW-M01
Serial No.	N/A
Trade Mark	Travor
FCC ID	2AVXN-KW-M01
Hardware Version:	V1.3
Software Version:	V1.1.0.3
Operation frequency	538.5MHz – 592.1MHz (both mode A and mode B)
Number of Channels	50 (both mode A and mode B)
Antenna Type	External Antenna
Antenna Gain	0dBi
Modulation Type	FM
Power Source	DC 3.7V from battery

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to KDB447498D01 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 Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

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

The results are rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

3 EUT RF Exposure

FM						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (538.5MHz)	10.889	11±1	12	15.849	2.326	3.0
Middle (548.1MHz)	10.894	11±1	12	15.849	2.347	
Highest (558.1MHz)	10.946	11±1	12	15.849	2.368	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

FM						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (572.5MHz)	10.120	11±1	12	15.849	2.398	3.0
Middle (582.1MHz)	10.990	11±1	12	15.849	2.418	
Highest (592.1MHz)	10.961	11±1	12	15.849	2.439	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK2003190350-E