

RF Exposure Evaluation Report

1 RF EXPOSURE

Product Name	Karaoke Microphone
Model No.	KM-8500
Test Mode	TX
FCC ID	PLE-KM-8500

1.1 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 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 calculation¹⁷

The result is 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

1.2 EUT RF EXPOSURE EVALUATION

Operational Mode: EDR (8-DPSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power(dBm)	Maximum tune-up Power(mW)	Calculated value	Exclusion threshold
2402MHz	-6.92	± 1	-5.92	0.26	0.08	3
2441MHz	-6.43	± 1	-5.43	0.29	0.09	3
2480MHz	-5.85	± 1	-4.85	0.33	0.10	3
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						