

# MPE Calculation

**Step 1)**

SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance  $\leq 50$  mm = **Used**  
 $[(\text{max.power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}]$

Model Name : **miracle,m M90**

Device Category : **Bluetooth Karaoke Mic**

FCC ID : **2AXWO-MIRACLEM-M90**

Separation distance : **5.0 mm**

Modulation	Frequency (MHz)	Min. Test separation distance	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance		SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance $\leq 50$ mm	Limit	Result
		(mm)	(dBm)	(dB)	(dBm)	(mW)			
GFSK	2402	5.00	-10.87	$\pm 1.00$	-9.87	0.10	0.0319	3.00	<b>PASS</b>
	2441		-11.58		-10.58	0.09	0.0273	3.00	<b>PASS</b>
	2480		-12.46		-11.46	0.07	0.0225	3.00	<b>PASS</b>