

FCC RF Exposure

EUT Description:Bluetooth 5.3 Smart Food Thermometer

Model No.:MW2 PROBE,MW3 PROBE,MW4 PROBE,MW5 PROBE,MW6 PROBE,
MW7 PROBE,MW8 PROBE,MW9 PROBE,MW10 PROBE,MW11 PROBE

FCC ID: 2ARYG-MW2PROBE

Equipment type: Portable devices

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093, 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 numericasimulation, is not required when the corresponding SAR Test Exclusion Thresholdocondition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances < 50 mm, the 1-g and 10-g SAR testexclusion thresholds are determined by the following:

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

The result is rounded to one decimal place for comparison

$$\text{EIRP} = \text{EMeas} + 20 \log(\text{dmeas}) - 104.7$$

EIRP is the equivalent isotropically radiated power,

EMeas in dBm is the field strength of the emission at the measurement distance, in dB u V/m

dmeas is the measurement distance, in m

conducted power(dBm)	Max tune-up(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
2.433	1.7511	2402	5	05428	3.0
2.481	1.7705	2441	5	0.5532	3.0
2.328	1.7092	2480	5	0.5383	3.0

Conclusion: No SAR is required