RF Exposure Evaluation

1. The corresponding SAR Exclusion Threshold condition, listed below:
  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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] · [√f(GHz)]
The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] .[Vf(GHz)]≤3.0 for 1-g SAR and≤7.5 for 10-g extremity SAR,16 where
➢ f(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

2. CL ASSIFICATION
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

EUT Specification

FCC ID	2ANQT-C-505
PRODUCT:	WIRELESS MICROPHONE
MODEL NO.:	C-505
ST ANDARDS:	FCC Part 15.236 KDB 447498 D01 V06 ANSI C95.1- 1999
Antenna type:	Spring antenna
Antenna gain (Max)	-2.09dBi
Evaluation applied	☐ MPE Evaluation ☒ SAR Evaluation

3. SAR TEST EXCLUSION THRESHOLDS

Frequency	RF Output power	Tolerance	Max Tune Up power		Antenna Gain	min. test separation distance	Result	Limit
(MHz)	(dBm)	(dBm)	(dBm)	(mW)	(dBi)	(mm)		
570.00	1.561	1±1	2	1.585	-2.09	5	0.1479	3
580.00	1.121	1±1	2	1.585	-2.09	5	0.1492	3
588.75	0.562	0±1	1	1.259	-2.09	5	0.1194	3

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.1862 which is<= 3, RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)]
f(GHz) is the RF channel transmit frequency in GHz
Distance=5mm

Conclusion: No SAR is required.