

FCC RF Exposure

EUT Description: WIRELESS MICROPHONE

Model No.: DX7, MX-R42, R4-PRO, DX6, DX8-B, DX8, DL502, DL602, DL702, W1, W2, W3, W4, W5, W6, W7, W8, Q6, Q7, QU6, QU7, DX4, T118, DF204, DF208, X1, X2, T1, T2, T3, T4, T5, T6, T7, T8, T9, S1, S2, S3, S4, S5, S6, S7, S8, S9, R1, R2, R3, R4, R5, R6, R7, R8, R9, WG1, DR20, REV3900, GT4, GM4X, GM6X, UF4-M

FCC ID: 2A57K-DX7

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 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:

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

Where:

Result = $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn - up power in mw

D = Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
567.8	5.20	5 ± 1	5/3.16	5	0.476	3.0	Pass
Note: PK Output power = conducted power. Conducted power see the test report HK2203040902-E , antenna gain = 2dBi							

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 0.476 which is ≤ 3 , RF Exposure testing is not required.

Note: Exclusion Thresholds Results = $\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})}$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Distance = 5mm