

FCC RF Exposure

EUT Description: IP Camera Tester

Model No.: MT-8810

FCC ID: 2A7OB-MT-8810

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

Where:

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	SAR Test Exclusion
2422	6.84	6 ± 1	7/5.012	5	1.560	3.0	Pass
5240	6.32	6 ± 1	7/5.012	5	2.295	3.0	Pass
5755	6.79	6 ± 1	7/5.012	5	2.405	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report HK2504161943-1E/2E/3E, 2.4GWIFI:antenna gain=1.4dBi; 5.2GWIFI:antenna gain=1.45dBi; 5.8GWIFI:antenna gain=-0.16dBi;							

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

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

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

Distance=5mm

Note: the device could not transmit simultaneously in 2.4G and 5G.