FCC RF Exposure

EUT Description: Wireless Barcode Scanner

Model No.: MT8210B FCC ID: IRJ-MT8210B

1. Limits

According to KDB 447498 D04 General RF Exposure Guidance v01 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)]·[$\sqrt{f(GHz)}$]≤3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,

Where:

Result=P/D*√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

	Output	Tune Up	Max Tune	Min test	Result	Limit	SAR Test
	power	Power	Up power	separati			Exclusion
	(dBm)	(dBm)	dBm/mW	on			
				distance			
				mm			
BLE(2440)	1.24	1±1(2)	1.58	5	0.495	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report HK2205262234-E, antenna gain=0.5dBi

Per KDB 447498 D04, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.495 which is <= 3, SAR testing is not required.

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

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

Distance=5mm