



FCC RF Exposure

EUT Description:Q-Mate Series

Model No.: JQF-S1

FCC ID: 2BV4H-JQF-S1

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
BLE	2480	5.85	5 $\pm$ 1	6/3.981	5	1.254	3.0	Pass
2.4G WiFi	2412	8.37	8 $\pm$ 1	9/7.943	5	2.467	3.0	Pass
5.2G WiFi	5240	6.76	6 $\pm$ 1	7/5.012	5	2.295	3.0	Pass
5.8 WiFi	5745	6.09	6 $\pm$ 1	7/5.012	5	2.403	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report

DLE-260611021R/DLE-260611022R/DLE-260611023R/DLE-260611026R,

BT antenna gain=2.27dBi, 2.4GWiFi antenna gain=2.27dBi,

5.2GWiFi antenna gain=2.88dBi, 5.8GWiFi antenna gain=2.39dBi.

WiFi and BT cannot be transmitted at the same time

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 meets the requirements, SAR 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