

FCC RF Exposure

EUT Description: Mobile phone magnetic selfie screen

Model No.: R600, R610, R620, R630, R640, R650, R660, R670, R680, R690

FCC ID: 2A5TQ-R600

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	2440	0.59	0 $\pm$ 1	1/1.259	5	0.393	3.0	Pass
2.4G WiFi	2437	6.98	6 $\pm$ 1	7/5.012	5	1.565	3.0	Pass
5.2G WiFi	5200	3.66	3 $\pm$ 1	4/2.512	5	1.146	3.0	Pass
5.8G WiFi	5755	3.37	3 $\pm$ 1	4/2.512	5	1.205	3.0	Pass

Note:

PK Output power = conducted power.

Conducted power see the test report

DLE-260205014R/DLE-260205015R/DLE-260205016R/DLE-260205017R, BT antenna gain=2.88dBi, 2.4GWiFi antenna gain=3.42dBi, 5.2GWiFi antenna gain=3.71dBi, 5.8GWiFi antenna gain=3.52dBi.

BT and 2.4GWiFi Simultaneous evaluation:

$0.393 / 3 + 1.565 / 3 = 0.516 < 1$, SAR testing is not required

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