

FCC RF Exposure

EUT Description: bluetooth headset

Model No.: E7S, A6S, Y30, Y50, Y70, Y80, P7, P9, P30, P36, P10, PT08, M2, M13, M19, M20, M21, M22, M25, M28, M36, JS82, YD05, M90PRO, PRO60, X6, X1, pro4, X16PRO, M39, KM89, PRO70

FCC ID: 2A9NQ-E7S

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:

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

Where:

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

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
EDR: 2402	0.35	0 ± 1	1/1.26	5	0.391	3.0	Pass
BLE: 2402	-1.74	-1 ± 1	0/1.00	5	0.310	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2211295395-1E/2E**, antenna gain=0.44dBi

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 0.391 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