

FCC RF Exposure

EUT Description: bluetooth headset

Model No.: X16PRO, A520, A8, BQ10, M38, X18, X20, X25, X28, X30, X50, X80, L11, L12S, CY-02, SKY-9, SKY-3, R12, R15, S20, W16, M39, G36, G38, G39, K20, K10, S1, TG09, V8, J09, X10Pro, YD01, YD02

FCC ID: **2A9NR-X16PRO**

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:
[(max power of channel, including tune - up tolerance, mW)/(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 (mW/cm ²)	SAR Test Exclusion
EDR: 2402	0.54	0 ± 1	1/1.26	5	0.391	3.0	Pass
BLE: 2402	-2.4	-2 ± 1	-1/0.794	5	0.246	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report HK2211295394-1E/2E , antenna gain=2.67dBi							

Per KDB 447498 D01, when the minimum test separation distance is < 5mm, 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