



RF EXPOSURE

EXEMPT REPORT

APPLICANT : IRIS Audio Engineering Limited

PRODUCT NAME : IRIS FLOW Headphones

MODEL NAME : TGR1

BRAND NAME : IRIS

FCC ID : 2AXKC-TGR101

47 CFR Part 1.1307

STANDARD(S) : 47 CFR Part 2.1093
KDB447498D01 General RF Exposure
Guidance v06

RECEIPT DATE : 2020-08-27

TEST DATE : 2020-08-27

ISSUE DATE : 2020-09-15



Equipment Under Test (EUT) Description

EUT Type:	IRIS FLOW Headphones
Hardware Version:	N/A
Software Version:	N/A
Antenna Type:	FPC Antenna
Antenna Gain:	3.2 dBi
For BT:	
Frequency Bands:	2402MHz ~ 2480MHz
Modulation Mode:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
For BLE:	
Frequency Bands:	2402MHz ~ 2480MHz
Modulation Mode:	GFSK



Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

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:

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

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

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

EUT RF Exposure

For BT/BLE

The Max. power (including tune-up tolerance) is 3.0 dBm on the highest channel 2.48 GHz (*)

3.0 dBm logarithmic terms convert to numeric result is nearly 2.0 mW According to the formula. calculate the test exclusion thresholds:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$\text{General RF Exposure} = (2.0 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 0.63 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

- End of the Report -

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