

Radiofrequency radiation exposure evaluation: mobile devices

RESULT: Pass

Test Specification

Test item : Nova Air Purifier

Identification / Type No. : Nova

FCC ID : 2BBB3-NOVA

Test standard : CFR47 FCC Part 2: Section 2.1091

CFR47 FCC Part 1: Section 1.1310 FCC KDB Publication 447498 D04

> FCC requirements

FCC requirement: Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

MPE Calculation Method according to KDB 447498 D04

TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Sour			Minim	um I	Threshold ERP	
f _L MHz		∱ _H MHz	$\lambda_L / 2\pi$		$\lambda_{\rm H}$ / 2π	W
0.3	-	1.34	159 m	_	35.6 m	1,920 R ²
1.34	1	30	35.6 m	-	1.6 m	3,450 R ² /f ²
30	-	300	1.6 m	ı	159 mm	3.83 R ²
300	1	1,500	159 mm	-	31.8 mm	0.0128 R ² f
1,500	ı	100,00	31.8 mm	ı	0.5 mm	19.2R ²

Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

a) EUT RF Exposure Evaluation operations, Worst Case mode

Test Mode	Measured Power (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)	Measured e.i.r.p (mW)	Minimum Separation Distances (cm)	Limit (mW)
BLE	5.48	2.54	8.02	6.34		768
2.4GHz band Wi- Fi	16.42	2.54	18.96	78.70	20	