

FCC ID: 2BW6Y-UKEYCORE26

1. RF Exposure Evaluation

1.1 Limits According to FCC §1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b)

Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
0.3 ~ 3.0	614	1.63	*(100)	≤6
3.0 ~ 30	1842/f	4.89/f	*(900/f ²)	<6
30 ~ 300	61.4	0.163	1.0	<6
300 ~ 1500	--	--	f/300	<6
1500 ~ 100000	--	--	5	<6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3 ~ 1.34	614	1.63	*(100)	<30
1.34 ~ 30	824/f	2.19/f	*(180/f ²)	<30
30 ~ 300	27.5	0.073	0.2	<30
300 ~ 1500	--	--	f/1500	<30
1500 ~ 100000	--	--	1.0	<30

f= frequency in MHz. * = Plane-wave equivalent power density.

2.1 MPE Exemptions

2.1.1 eCFR _47 CFR Part 1 Subpart I -- Procedures Implementing the National Environmental Policy Act of 1969

1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments(EAs) must be prepared. 1.1307(b)(3) Determination of exemption.

(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

2.2.2 Limit for Portable Equipment Exposure

Frequency	1-g SAR
100MHz-6GHz	3.0



According to 447498 D01 General RF Exposure Guidance v07

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

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

2. Estimation Result

BLE:

Frequency	Reading result(dBμV/m)	PK Output Power (dBm)	Output Power(mW)	Test Separation Distance (mm)	Measurement Result	1-g SAR
GFSK 2480 MHz	91.41	-3.79	0.418	5	0.1317	3.0
Note: PK Output Power (dBm)= Reading result(dBμV/m)-95.2 Reading result see the test report UNIA26051201ER-61.						

NFC:

Frequency	E-Field (dBμV/m@3m)	EIRP (dBm)	EIRP(mW)	Thresholds EIRP(mW)
13.56	57.9	-37.3	0.00018621	1.00
Note: EIRP (dBm)= Reading result(dBμV/m)-95.2 Tune-up EIRP (mW) = $10^{\text{Tune-up EIRP(dBm)}/10}$ Reading result see the test report UNIA26051201ER-62.				

The EUT BLE/NFC supports difference antenna, but can't simultaneous transmission.

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