

RF EXPOSURE EVALUATION

EUT Specification

EUT	Fuzozo,FuzozoTAMI-US,FuzozoWUWA-US,FuzozoPOLU-US,FuzozoFIFI-US,FuzozoMUKU-US
Model Number	FZ1212
FCC ID	2BW7J-FZ1212
Antenna gain (Max)	BLE: 1.11dBi NFC: /
Operation Frequency	BLE(2402-2480MHz): 1.11dBi NFC(13.56MHz): /
Rating	Input: 5V==2A Built-in Battery: 3.7V 1800mAh
Max. output power	BLE(2402-2480MHz): 3.71dBm NFC(13.56MHz): 50.75dBμV/m(-44.45dBm)

Test Requirement:

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
(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)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100000	--	--	1	30

Note: f denotes for frequency in MHz.

* denotes for plane-wave equivalent power density.

Friis transmission formula: $P_d = \frac{P_{out} \cdot G}{4 \cdot \pi \cdot R^2}$

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1416

R = distance between observation point and center of the radiator in cm = 20cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation

$$\sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

$Evaluated_k$: the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure Limit_k$: either the general population/uncontrolled maximum permissible exposure (MPE) or specific Absorption rate (SAR) limit for each fixed, mobile, or portable RF source k .

Measurement Result

Mode	Ant.	Channel Freq. (MHz)	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain (Numeric)	Evaluation result (mW/cm ²)	Power density Limits (mW/cm ²)
GFSK	1	2480	3.71	3±1	4	1.29	0.0006	66.37
NFC	1	13.56	-44.45	-44±1	-43	1	0.00000002	3.05

Maximum Simultaneous transmission MPE Ratio for BLE & NFC

Maximum MPE ratio (BLE)	Maximum MPE ratio (NFC)	Σ MPE ratios	Limit	Results
0.0006	0.00000002	0.00060002	1.000	Pass

Signature:



Alan He

Date: 2026-07-31