

FCC ID: 2BALUHCM-ADP-01

According to Appendix B of 447498 D04 Interim General RF Exposure Guidance v01, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula.

P_{th} is given by:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

The separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz .

P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distances (cm).

BLE

Tx Interface	Frequency (GHz)	Output Power		Antenna Gain (dBi)	ERP (dBm)	ERP Threshold (mW)	Separation Distances (cm)	P_{th} (mW)	Exemption result
		dBm	mW						
BLE	2.48	1.5	1	0.1	-0.55	0.88	0.5	3	-EXEMPT-

NFC

Mode	Frequency (MHz)	Result power (dBuV/m)	Electric Field Strength (V/m)	Limit of Electric Field Strength (V/m)
NFC	13.56	11.58	0.000004	60.77

Note:

1. The tune up power referred the module report for SAR test exclusion purpose.

■ Simultaneous Transmission Exempt

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

BLE + NFC

Therefore, the worst-case situation is $0.88 / 3 + 0.000004 / 60.77 = 0.2933$, which is less than “1” .

--End of Test Report--