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Client: A&D Co Ltd
1-243 Asahi, Kitamoto-city, Saitama, 364-8585, Japan

Test item: Digital Blood Pressure Monitor

Identification: UA-810BLE

FCC Requirement

According to §1.1307 (b)(1)(i)(A) and KDB 447498 D01 v06, transmitter device is qualified as exemption of RF human exposure, when the transmitter power is below a threshold calculated by its relevant formula defined in §1.1307 (b)(3)(i)(B):

Transmitter	Frequency [MHz]	ERP _{20cm} [mW]	Minimum Separation Distance d [cm]	Threshold P _{th} [mW]
BLE	2450	3060	0.5	3

Measurement Result

The maximum ERP from the transmitter (**EUT**) is given in the following table:

Transmitter	Freq. Range [MHz]	Cond. Power [dBm]	Antenna Gain [dBi]	Maximum ERP [mW]
BLE	2402-2480	-5.66	2.9	<u>0.32</u>

Note: The conducted power of BLE is cited from the test report JP24GXPT 001 by TÜV Rheinland Japan.

The ERP in mW is calculated in conjunction with the following formula:

$$\text{ERP [mW]} = 10^{(\text{Conducted Power [dBm]} + \text{Antenna Gain [dBi]} - 2.15)/10}$$

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This transmitter is classified as Portable Devices by the client.

SAR evaluation is not required, since the ERP is below the FCC SAR exemption threshold P_{th} at the separation distance of **5 mm** between the body of an operator and transmitters.

Hence, the device can be qualified as exemption from Routine Environmental Evaluation.