

RF Exposure Statement: JP25DT77 001Page 1 of 1
Seite 1 von 1

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

Test item: Digital Blood Pressure Monitor

Identification: UA-651BLE

FCC Requirement

According to §1.1307 (b)(1)(i)(A) and KDB 447498 D04 v01, 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	-3.5	+1.7	<u>0.40</u>

Note: The conducted power of BLE is cited from the test report JP24T1J5 001 by TUV Rheinland Japan.

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

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

Conclusion

This transmitter is classified as Portable Devices by the client.

As per the internal layout of the EUT, the shortest distance from the antenna to an outer surface of the enclosure can maintain more than 5 mm.

Eventually, 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 a user and the transmitter.

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