

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §1.1307(b)(3)(ii)(A)

the 1-mW exemption intended for single transmitters may be also applied to simultaneous transmission conditions, within the same host device, according one of the following criteria:

- a) When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.
- b) When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time averaging period.

This exemption may not be combined with any other exemption.

5.2 Measurement Result

Radio	Frequency (MHz)	Conducted output power including Tune-up Tolerance	Antenna Gain (dBi)	The Greater of Conducted Power or ERP	
		(dBm)		dBm	mW
BLE	2402-2480	-1	-1.0	-1	0.79
UWB	6489.6-7987.2	/	/	-10.5	0.09

Note:

1. Maximum EIRP of UWB is -8.84 dBm, so EPR is -10.99dBm, the tune -up ERP is -10.5dBm.
2. ERP (dBm) = EIRP (dBm)-2.15dB
4. The Value of Maximum Conducted Power including Tune-up Tolerance was declared by the customer.
5. The UWB and BLE can transmit simultaneously.

Total power $P_{\text{total}} = P_{\text{BLE}} + P_{\text{UWB}} = 0.79 + 0.09 = 0.88 < 1$ mW.

Result: The device compliant the 1-mW Test Exemption.

===== END OF REPORT =====