

# 1 Safety Human Exposure

## 1.1 Radio Frequency Exposure Compliance

### 1.1.1 Electromagnetic Fields

RESULT:

Pass

**Report No.** : CN231LNW 003  
**Test Specification**  
Test item : Wet Dry Vacuum  
Identification / Type No. : YJSC001, YJSC002  
Trademark : NARWAL  
FCC ID : 2A942YJSC00A  
IC : 30051-YJSC00A  
HVIN : YJSC001  
Test standard : CFR47 FCC Part 2: Section 2.1093  
FCC KDB Publication 447498 D01 v06  
RSS-102 Issue 5

#### Measurement Record:

1) According to the KDB 447498 D1 v06 section 4.3.1:  
The maximum averaged conducted output power for the EUT is 7.38dBm=5.47mW.

The SAR Exclusion Threshold Level for 10-g extremity SAR:  
 $= 7.5 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$   
 $= 7.5 * 5 / \sqrt{2.480} \text{ mW}$   
 $= \underline{23.81 \text{ mW}}$

Since the max. averaged conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

2) According to RSS-102 Issue 5 section 2.5.1:  
The e.r.i.p. for the EUT is 9.38 dBm=8.67mW.  
The 10-g extremity SAR exemption limit is  $4\text{mW} * 2.5 = 10\text{mw}$

Since the e.r.i.p is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

Note1: The prdouct is a handed device, hence the 10-g extremity SAR is applicable.

Note2: The product antenna gain is 2dBi.

Note3: The measured Average conducted power refer below.

Test Mode	Test Channel (MHz)	Measured Average Power	
		(dBm)	(W)
Bluetooth LE (1 Mbps)	2402	7.38	0.0055
	2440	7.19	0.0052
	2480	7.16	0.0052
Bluetooth LE (2 Mbps)	2402	7.38	0.0055
	2440	7.22	0.0053
	2480	7.17	0.0052
Max. Measured Value		7.38	0.0055