

RF Exposure Evaluation

FCC ID: P6S-RX402

1. Client Information

Applicant : ReFleX Wireless Inc.
Address : 1400 - 1055 West Hastings Street, Vancouver, V6E 2E9, Canada
Manufacturer : ReFleX Wireless Inc.
Address : 1400 - 1055 West Hastings Street, Vancouver, V6E 2E9, Canada

2. General Description of EUT

EUT Name	: NutriDisk Pocket Smart Food Scale	
Models No.	: RX402	
Model Difference	: N/A	
Product Description	Operation Frequency: BLE:2402~2480MHz	
	Number of Channel:	BLE:40 Channels
	Max Peak Output Power:	GFSK:-3.453 dBm
	Antenna Gain:	2 dBi Chip Antenna
	Modulation Type:	1Mbps(GFSK)
Power Supply	: DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.	
Power Rating	: DC 5.0V by USB cable. DC 3.7V by 500mAh Li-ion Battery.	
Connecting I/O Port(S)	: Please refer to the User's Manual	

Note:

More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2.

Calculation:

Test separation: 5mm					
BLE Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-3.453	±0.5	0.507	0.157	3.0
2.442	-4.425	±0.5	0.405	0.127	3.0
2.480	-5.124	±0.5	0.345	0.109	3.0

So standalone SAR measurements are not required.