

# RF Exposure Evaluation

## Test report

On Behalf of  
VTIN TECHNOLOGY Co.,Limited

For  
wireless mouse

Model No.: PC291A

FCC ID: 2AIL4-PC291A

Prepared for : VTIN TECHNOLOGY Co.,Limited  
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## 1 General Description of EUT

Product Name	wireless mouse
Model/Type reference	PC291A
Trade Mark	VICTEC
FCC ID	2AIL4-PC291A
Hardware Version	ZM7.1
Software Version	VER2.0
Operation frequency	2403.85MHz—2479.85MHz
Channel number	16
Modulation Technology	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 1.5V from Dry cell

## 2 RF Exposure Compliance Requirement

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,

Where  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The results is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 3 EUT RFEposure

Antenna Gain: 0dBi

Define the minimum distance: 5mm

GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2403.85MHz)	-3.118	-3±1	-2	0.631	0.196	3.0
Middle (2441.85MHz)	-2.958	-3±1	-2	0.631	0.197	
Highest (2479.85MHz)	-2.560	-3±1	-2	0.631	0.199	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Note: For maximum peak conducted output power, please refer to Test report HK2008212277-E