

RF Exposure Evaluation

Test report

On Behalf of
VTIN TECHNOLOGY Co.,Limited

For
wireless mouse

Model No.: PC299A

FCC ID: 2AIL4-PC299A

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

Product Name	wireless mouse
Model/Type reference	PC299A
Trade Mark	VICTSING
FCC ID	2AIL4-PC299A
Hardware Version	ZM2.1
Software Version	VER4.0
Operation frequency	2402.4MHz--2480.4MHz
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 ≤ 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 ≤ 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 ≤ 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 RFExposure

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 (2402.4MHz)	-9.160	-9±1	-8	0.158	0.049	3.0
Middle (2441.4MHz)	-8.187	-9±1	-8	0.158	0.050	
Highest (2480.4MHz)	-9.082	-9±1	-8	0.158	0.050	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Note: For maximum peak conducted output power, please refer to Test report HK2006181455-E