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RF Exposure Evaluation Report

Report No.:	CQASZ20201100033EX-02
Applicant:	VTIN TECHNOLOGY Co.,Limited
Address of Applicant:	Unit D, 16/F, One Capital Place, 21 Luard Road, Wan Chai, Hong Kong
Equipment Under Test (EUT):	
EUT Name:	wireless mouse
Model No.:	PC288A
Brand Name:	VICTSING
FCC ID:	2AIL4-PC288A
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2020-11-05
Date of Test:	2020-11-05 to 2020-11-14
Date of Issue:	2020-11-14
Test Result:	**PASS***

***In the configuration tested, the EUT complied with the standards specified above**

Tested By: Jun Li

(Jun Li)

Reviewed By: Sheek . Luo

(Sheek Luo)

Approved By:

(Jack Ai)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20201100033EX-02	Rev.01	Initial report	2020-11-14

2 Contents

3 General Information

3.1 Client Information

Applicant:	VTIN TECHNOLOGY Co.,Limited
Address of Applicant:	Unit D, 16/F, One Capital Place, 21 Luard Road, Wan Chai, Hong Kong
Manufacturer:	VTIN TECHNOLOGY Co.,Limited
Address of Manufacturer:	Unit D, 16/F, One Capital Place, 21 Luard Road, Wan Chai, Hong Kong

3.2 General Description of EUT

Product Name:	wireless mouse
Test Model No.:	PC288A
Trade Mark:	VICTSING
Hardware Version:	V3.0
Software Version:	V1.0
Operation Frequency:	2402.8-2480.8MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	16
Fixed frequency mode	Combine buttons to enter engineering mode
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	battery: 1.5V

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result 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

4.1.3 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402.8MHz)	-13.156	-12.5±1	-13.5	0.045
Middle(2440.8MHz)	-13.875	-13±1	-14	0.040
Highest(2480.8MHz)	-14.603	-13.5±1	-14.5	0.035

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402.8MHz)	-13.156	-12.5±1	-13.5	0.045	0.014	3.0
Middle (2440.8MHz)	-13.875	-13±1	-14	0.040	0.012	
Highest (2480.8MHz)	-14.603	-13.5±1	-14.5	0.035	0.011	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20201100033EX-01

--THE END--