

# Acer Incorporated

# TEST REPORT

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200700112TWN-001

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## RF Exposure Evaluation Report

<b>Applicant:</b>	Acer Incorporated 8F, 88, Sec.1, Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan
<b>Product:</b>	Wireless Keyboard
<b>Model No.:</b>	DKR010
<b>Brand Name:</b>	Acer
<b>FCC ID:</b>	HLZDKR010
<b>Test Method/ Standard:</b>	FCC 2.1093 KDB 447498
<b>Test By:</b>	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan

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### Revision History

Report No.	Issue Date	Revision Summary
200700112TWN-001	Jul. 28, 2020	Original report

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## 1. General Information

### 1.1 Identification of the EUT

<b>Product:</b>	Wireless Keyboard
<b>Model No.:</b>	DKR010
<b>Operating Frequency:</b>	2402 MHz ~ 2480 MHz
<b>S/N Number:</b>	GPKBD1101E921000014Z01
<b>SW Version:</b>	V05_Ex33EE
<b>Test Software Version:</b>	1.9.5.2
<b>Power Setting:</b>	0 dBm
<b>Channel Number:</b>	1. 79 channels for 2402 MHz ~ 2480 MHz (BTC) 2. 40 channels for 2402 MHz ~ 2480 MHz (BLE)
<b>Access scheme:</b>	GFSK, $\pi/4$ DQPSK, 8DPSK
<b>Rated Power:</b>	3.8Vdc from Battery or 5Vdc from USB
<b>Power Cord:</b>	N/A
<b>Sample receiving date:</b>	Jul. 09, 2020
<b>Sample condition:</b>	Workable
<b>Test Date(s):</b>	Jul. 14, 2020 ~ Jul. 17, 2020

### 1.2 Antenna description

Antenna Gain : 2.78 dBi  
 Antenna Type : PCB antenna  
 Connector Type : Fixed

### 1.3 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Data cable
Notebook PC	HP	HP ProBook 440 G3	5CD8021S9H	USB To UART 1.5 meter × 1

## 2. Test specifications

### 2.1 RF Exposure calculations

According to KDB 447498 D01 , Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

Clause 4.3: General SAR test reduction and exclusion guidance Sub , clause 4.3.1: Standalone SAR test exclusion considerations

a) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distances  $\leq 5$  mm are determined by:

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

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

### 2.2 Operation mode

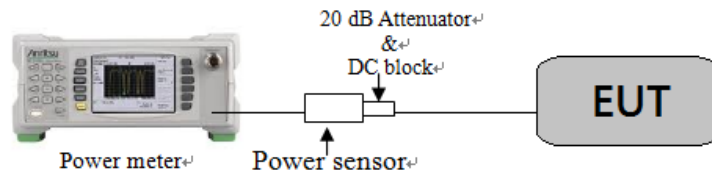
The EUT was supplied with DC 5 V from USB port (Test voltage: 120Vac, 60Hz).

Connected to Notebook via USB To UART Cable, executing “BlueTool 1.9.5.2” and select different frequency and modulation.

### 2.3 Test equipment

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
Power Meter	Anritsu	ML2495A	0844001	2019/10/23	2020/10/21
Power Sensor	Anritsu	MA2411B	0738452	2019/10/23	2020/10/21

## 2.4 Test Set-up



### 3. Test results

Mode	Frequency (GHz)	Conducted Power (dBm)	Tune-up Tolerance	Max Power (dBm)	Max Power (mW)	Result	SAR Test Exclusion Threshold	Exempt from Test?
V2.1+EDR	2.402~2.48	-3.28	1	-2.28	0.59	0.186	3.0	Yes
BLE	2.402~2.48	-3.29	1	-2.29	0.59	0.186	3.0	Yes