



Test Report

Test Report No.:	KTI18EF10002		
Registration No.:	KR0023		
Applicant:	Brilliantts Co.,Ltd		
Applicant Address:	10F, 14-1 Pangyo-yeok-ro 192 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea		
Product:	Bluetooth		
FCC ID:	2AK3I-FUZEX-CTA-01	Model No.	FUZEX-CTA-01 FUZEX-CTA-02 FUZEX-CTA-03 FUZEX-CTA-04 FUZEX-CTA-05 FUZEX-CBA-01 FUZEX-CBA-02 FUZEX-CBA-03 FUZEX-CBA-04 FUZEX-CBA-05
Receipt No.:	KTI18EK10002	Date of Incoming:	Oct 8, 2018
Date of Issue:	Oct 12, 2018		
Testing location	Korea Technology Institute Co., Ltd. 58-10, Sagiso-gil, Docheok-myeon, Gwangju-si, Gyeonggi-do, Korea		
Test Standards:	FCC PART 15 SUBPART C Section 15.247		
Rule Parts: FCC	ANSI C63.10: 2013		
Method of Measurement	FCC Public Notice DA 00-705		
Test Result:	The above-mentioned product has been tested with compliance.		

Tested by: W. J. Yun.
/ Engineer

Signature Date Oct 12, 2018

Approved by: S. H. Song
/Technical Manager

Signature Date Oct 12, 2018

Other Aspects:			
Abbreviations:	* OK, Pass=passed * Fail=failed * N/A=not applicable		
<p> - This test report is not permitted to copy partly without our permission.</p> <p>- This test result is dependent on only equipment to be used.</p> <p>- This test result is based on a single evaluation of one sample of the above mentioned.</p> <p>- We certify this test report has been based on the measurement standards that is traceable to the national or international standards.</p>			



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1. Verification of compliance

Applicant : Brilliantts Co.,Ltd

Address : 10F, 14-1 Pangyoek-ro 192 beon-gil, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea a

FCC ID : 2AK3I-FUZEX-CTA-01

Model Name : FUZEX-CTA-01



Brand Name :

Serial Number : N/A

Test Date : Jan 08, 2017

Equipment Class	DTS – DIGITAL TRNSMISSION SYSTEM
Kind of Equipment	Bluetooth
Measurement Procedures	ANSI C63.10: 2013
Type of Equipment Tested	Pre-Production
Kind of Equipment Authorization Requested	Certification
Equipment Will Be Operated Under FCC Rules Part(s)	FCC PART 15 SUBPART C Section 15.247
Modifications On The Equipment To Achieve Compliance	None
Final Test was Conducted On	10m Open area test site

- The above equipment was tested by Korea Technology Institute Co., Ltd. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanation from equipment are within the compliance requirements.



2. General Information

2.1 Product Description

FUZEX-CTA-01 (referred to in this report as EUT) is used as a Smart Multi-Card

The product specification described herein was obtained from product data sheet or user's manual.

Equipment Name	Smart Multi-Card
Operating Frequency	2402 MHz ~ 2480 MHz
RF Output Power	-4.61 dBm
Number of Channel	40 Channels
Modulation Type	GFSK
Antenna Type / Gain	PCB Antenna / 0.74 dBi (Max)
List of Each OSC. Or Crystal. Freq.	32 MHz
Rated Supply Voltage	DC 3.8 V

Alternative type(s)/model(s); also covered by this test report.

- **None**

3. EUT MODIFICATIONS

- **None**



4. MAXIMUM PERMISSIBLE EXPOSURE

RF Exposure Calculation

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 ~ 100 000 MHz.

EUT Description

Kind of EUT	Smart Multi Card
Operating Frequency Band	<input type="checkbox"/> Wireless Microphone: 494.000 MHz ~ 501.000 MHz <input type="checkbox"/> and 498.200 MHz ~ 505.200 MHz <input type="checkbox"/> WLAN: 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 240 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz <input checked="" type="checkbox"/> Bluetooth BLE: 2 402 MHz ~ 2 480 MHz
MAX. RF OUTPUT	-4.61 dBm
Antenna Gain	0.74 dBi
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A

Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Mim. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (0.35/5) \times \sqrt{2.402} = 0.11$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
BLE (GFSK)	2 402	1.0 ± 1.0	-4.61	0.35	5	0.11