

RF Exposure Evaluation Report

Product Name : UHF RFID Reader Module

Model No. : RSK-UHF01

FCC ID : 2ABTU-RSKUHF01

Applicant : RuggON Corporation

Address : 4F, No. 298, Yang Guang St., Neihu Dist., Taipei
City, Taiwan

Date of Receipt : Dec. 24, 2018

Date of Declaration : Feb. 25, 2019

Report No. : 18C0314R-SAUSP03V00

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Feb. 25, 2019

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Product Name	UHF RFID Reader Module
Applicant	RuggON Corporation
Address	4F, No. 298, Yang Guang St., Neihu Dist., Taipei City, Taiwan
Manufacturer	RuggON Corporation
Model No.	RSK-UHF01
FCC ID.	2ABTU-RSKUHF01
Trade Name	RuggON
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By :



(Adm. Assistant / Elephant Chen)

Tested By :



(Engineer / Wen Lee)

Approved By :



(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	UHF RFID Reader Module
Trade Name	RuggON
Model No.	RSK-UHF01
FCC ID.	2ABTU-RSKUHF01
Frequency Range	902.75MHz-927.25MHz
Channel Control	Auto
Type of Modulation	FSK
Antenna Type	Patch Antenna

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ($\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$), SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 900MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 16mW

Frequency Band (MHz)	Maximum H-Field power		SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 3.0 SAR is not required)
	(dBuV/3m)	ERP (mW)	(mW)	
914.75	93.25	0.39	16	0.074

Note1: The SAR/MPE measurement is not necessary.

Note2: The Maximum H-Field power is refer to report No.: 18C0314R-RFUSP66V00 from the DKERA.