

RF Exposure Evaluation Report

Product Name : Smart Sound Earplug

Model No. : SHT-130

FCC ID : 2ARVT-SHT-130

Applicant : SUHYUNTECH CO.,LTD.

Address : 154-42, Gwanggyosan-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, South Korea

Date of Receipt : Nov. 08, 2018

Date of Declaration : Jan. 14, 2019

Report No. : 18B0102R-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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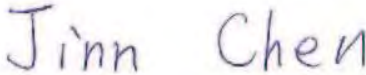
Issued Date: Jan. 14, 2019

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Applicant	SUHYUNTECH CO.,LTD.
Address	154-42, Gwanggyosan-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, South Korea
Manufacturer	SUHYUNTECH CO.,LTD.
Model No.	SHT-130
FCC ID.	2ARVT-SHT-130
Trade Name	
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By :



(Senior Adm. Specialist / Jinn Chen)

Tested By :



(Senior Engineer / Wen Lee)

Approved By :



(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Smart Sound Earplug
Trade Name	
Model No.	SHT-130
FCC ID.	2ARVT-SHT-130
Frequency Range	2402 – 2480MHz
Channel Number	79CH
Type of Modulation	FHSS: GFSK(1Mbps) / π / 4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	Chip Antenna
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	partron	SDBTPTR3015	Chip Antenna	1.99dBi in 2.4 GHz

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:

Operation frequency = 2450MHz and antenna separation distance = 5mm,
Body SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum PK output power Peak Gain: 1.99dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 3.0 SAR is not required)
	Conducted (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2402 – 2480	7.36	9.35	8.61	10	2.712

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted output power is refer to report No.: 18B0102R-RFUSP01V00 from the DEKRA.