

RF Exposure Evaluation Report

Product Name : OCCSensaBLE Basic

Model No. : Basic

FCC ID : 2ARX9-OCCBASIC

Applicant : Open Platform Systems LLC

Address : 108 West 33rd St, Garden City Idaho United States, 83714

Date of Receipt : Mar. 15, 2019

Date of Declaration : May. 08, 2019

Report No. : 1930243R-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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Applicant	Open Platform Systems LLC
Address	108 West 33 rd St, Garden City Idaho United States, 83714
Manufacturer	Open Platform Systems LLC
Model No.	Basic
FCC ID.	2ARX9-OCCBASIC
Trade Name	OCCSensaBLE
Applicable Standard	FCC 47 CFR 1.1310
Test Result	Complied

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(Senior Engineer / Wen Lee)

Approved By : Vincent Lin

(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	OCCSensaBLE Basic
Trade Name	OCCSensaBLE
Model No.	Basic
FCC ID.	2ARX9-OCCBASIC
Frequency Range	2402 – 2480MHz
Channel Number	40
Type of Modulation	GFSK(1Mbps)
Antenna Type	PCB Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Texas Instruments	DN0007	PCB Antenna	3.3dBi for 2.4GHz

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm^2

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.2. Test Result of RF Exposure Evaluation

Product : OCCSensaBLE Basic
Test Item : RF Exposure Evaluation

BT Peak Gain: 3.3dBi

Band	Frequency (MHz)	Conducted Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
BLE	2402	3.11	2.046	0.0009	1	Pass
	2440	-2.04	0.625	0.0003	1	Pass
	2480	-6.00	0.251	0.0001	1	Pass

Note: The conducted output power is refer to report No.: 1930243R-RFUSP01V00 from the DEKRA.