MPE Report

Report No.:STS2412019H02

Issued for

Chengdu Accsoon Technology Co., LTD.

Rm. 708, Bld. 1, Xiongchuan Center, No.166, Tianfu 2nd St.,
High-tech Zone, Chengdu, Sichuan, China.

Product Name:	Monitor
Brand Name:	ACCSOON
Model Name:	MITX1
Series Model(s):	MITX1H, MITX1P, MITX1S
FCC ID:	2AOH401X1MIT
Test Standard:	FCC 47CFR §2.1091

TEST REPORT

Applicant's Name :	Chengdu Accsoon Technology Co., LTD.
Address :	Rm. 708, Bld. 1, Xiongchuan Center, No.166, Tianfu 2nd St., High-tech Zone, Chengdu, Sichuan, China.
Manufacturer's Name :	Shenzhen Accsoon Technology Co., LTD.
Address :	Room 302, BLDG D, Zhiyuanyungu, 73 Guanlan Blvd, Longhua District, Shenzhen, China.

Product Description

Product Name :	Monitor
Brand Name :	ACCSOON
Model Name :	MITX1
Series Model(s) :	MITX1H, MITX1P, MITX1S
Test Standards :	FCC 47CFR §2.1091 447498 D01 Interim General RF Exposure Guidance v06

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

Date of Test :	
Date of receipt of test item :	06 Dec. 2024
Date (s) of performance of tests :	06 Dec. 2024 ~ 26 Aug. 2025
Date of Issue :	26 Aug. 2025
Test Result :	**Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Skylar Li

(Skylar Li)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

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Revision History

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00	26 Aug. 2025	STS2412019H02	ALL	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>Monitor</td></tr>
<tr><td>Brand Name</td><td>ACCSOON</td></tr>
<tr><td>Model Name</td><td>MITX1</td></tr>
<tr><td>Series Model(s)</td><td>MITX1H, MITX1P, MITX1S</td></tr>
<tr><td>Model Difference</td><td>Different models, different colors, everything else is the same</td></tr>
<tr><td>Product Description</td><td>The EUT is Monitor
<table>
<tr><td>Operation Frequency:</td><td>Bluetooth: 2402~2480 MHz
5.2G WLAN:
IEEE 802.11a/ n(HT20): 5.180GHz-5.240GHz
IEEE 802.11n(HT40): 5.190GHz-5.230GHz
5.3G WLAN:
IEEE 802.11a/ n(HT20):5.260GHz-5.320GHz
IEEE 802.11 n(HT40): 5.270GHz-5.310GHz
5.6G WLAN:
IEEE 802.11a/ n(HT20):5.500GHz-5.700GHz
IEEE 802.11 n(HT40):5.510GHz-5.670GHz
5.8G WLAN:
IEEE 802.11a/ n(HT20):5.745GHz-5.825GHz
IEEE 802.11a/ n(HT40):5.755GHz-5.795GHz</td></tr>
<tr><td>Modulation Type:</td><td>BLE: GFSK
BT BR(1Mbps): GFSK
BT EDR(2Mbps): π/4-DQPSK
BT EDR(3Mbps): 8DPSK
5G WLAN:
802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM
802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM</td></tr>
<tr><td>Antenna gain:</td><td>Bluetooth: 2.48 dBi
5G WLAN:
ANT 1:5.8 dBi
ANT 2:5.8 dBi
MIMO 1+2:8.81dBi</td></tr>
<tr><td>Antenna Designation:</td><td>Bluetooth: Internal
5G WLAN: Dipole</td></tr>
</table></td></tr>
<tr><td>Power Rating</td><td>Input: DC 6.0V-16.8V
Output: USB: DC5V 1.5A</td></tr>
<tr><td>Adapter</td><td>N/A</td></tr>
<tr><td>Battery</td><td>Rated Voltage: 7.4V
Charge Limit Voltage:8.4V
Capacity: 2200mAh 16.28W</td></tr>
<tr><td>Hardware Version</td><td>V1.3</td></tr>
<tr><td>Software Version</td><td>V1.0</td></tr>
</table>

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.
Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the 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/cm²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: Pd = (Pout * G) / (4*pi*r²)

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 TEST RESULT

Tune up

Mode	Tune up Power
BT	-0.5±1dBm
BLE	0±1dBm
5G WLAN	13±1dBm

Protocol	Fre. (GHz)	Separation distance (cm)	Max Tune Up Power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	Result
BT	2480	20	0.50	2.48	2.98	1.986	0.0004	1	0.0004	Pass
BLE	2480	20	1.00	2.48	3.48	2.228	0.0004	1	0.0004	Pass
5G WLAN	5795	20	14.00	5.8	19.80	95.499	0.0190	1	0.0190	Pass

Multiple transmission:

BT+5G WLAN =0.0004+0.019=0.0194 < 1

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

2. The Bluetooth and WLAN can simultaneous transmission at the same time.

3. ERP = EIRP - 2.15

※※※※※END OF THE REPORT※※※※※