RF Exposure Report (FCC)

Report No.:	WIRS115236-FCC-RF Exposure
Test Model:	T10-R Tablet
Received Date:	09/04/2021
Test Date:	10/20/2020 - 12/14/2021
Issued Date:	12/14/2021
Applicant:	SyncWise, LLC
Address:	2308 Kettner Blvd., Suite B San Diego, CA 92101
Issued By:	Eurofins Electrical and Electronic Testing NA, Inc.
Lab Address:	3162 Belick St. Santa Clara CA, 95054

ACCREDITED
TESTINGCERT #0591.02

1. Certificate of Conformity

Product: Tablet
Brand: SyncWise
Test Model: T10-R Tablet
FCC ID: 2A3HW T10-R
Sample Status: Engineering Sample
Applicant: SyncWise, LLC
Test Date: 10/20/2021 - 12/14/2021
Standard: 47 CFR FCC Part 2.1093

Gary Chou

Gary Chou
Wireless Engineering Manager, Wireless Laboratory

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of Part 22 Subpart H and Part 24 Subpart E and Part 27 Subpart L of the FCC Rules under normal use and maintenance.

Eleazar Zuniga.

Eleazar Zuniga,
Director, Wireless Laboratory

Report Status Sheet

Revision	Report Date	Reason for Revision
∅	December 14, 2021	Initial Issue.

2. RF Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz; *Plane-wave equivalent power density

2.1 MPE Calculation 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 center of the radiator in cm

2.2 Antenna Gain

The antenna type is embedded antenna with
698 MHz-960 MHz/ 1.5 dBi gain.
1710 MHz-2170 MHz/ 3.1 dBi gain.
2500 MHz-2700 MHz/ 3.5 dBi gain.
2410 MHz-2490 MHz/ 4.4 dBi gain.
4920 MHz-5925 MHz/ 6.7 dBi gain.

2.3 Calculation Result of Maximum Conducted Power

Type	Frequency Band (MHz)	Max Power (dBm)	Max Power (mW)	Turn-Up Tolerance	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm2)	Limit (mW/cm2)
WLAN 2.4GHz	2412	16.5	44.6683	±1dB	4.4	20	0.030828	1
WLAN 5GHz	5260	14	5.1188	±1dB	6.7	20	0.029441	1
BT/ BLE	2402	8	6.3095	±1dB	4.4	20	0.004355	1
WCDMA	826.4	24	251.188	±1dB	1.5	20	0.088910	0.549
LTE B5	824.7	24.5	281.838	±1dB	1.5	20	0.099759	0.549
LTE B4	1710.47	24.5	281.838	±1dB	3.1	20	0.144195	1

Note:
1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. This device contains
   WLAN/ Callure/ Bluetooth Module: FCC ID: XMR201706SC20A

3. Conclusion

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Co-location worse case (BLE, BT BDR/EDR, WLAN 2.4GHz/5GHz & WCDMA/ LTE)

Total MPE Percentage for

1.WLAN 2.4GHz, LTE & BT to transmit simultaneously.

t = 0.197132 < 1

2. WLAN 5GHz, LTE & BT to transmit simultaneously.

t = 0.195745 < 1

Therefore, the maximum calculations of above situations are less than the "1" limit.
The SAR evaluation is not required.