



Report No.: FCS202202015W01

## FCC RF Exposure

EUT Description: Car Android Player

ModelNo.:901XM

FCC ID: 2A47F-901XM

Equipment type: fixed equipment

## 1. Limits

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<br>(MHz) | Electric field<br>strength<br>(V/m) | Magnetic field strength (A/m)    | Power density<br>(mW/cm <sup>2</sup> ) | Averaging time (minutes) |  |
|--------------------------|-------------------------------------|----------------------------------|--|--------------------------|--|
|                          | (A) Limit                           | ts for Occupational/Controlled E | xposures                               | 1                        |  |
| 0.3-3.0                  | 614                                 | 1.63                             | *(100)                                 | 6                        |  |
| 3.0–30                   | 1842/f                              | 4.89/f                           | *(900/f <sup>2</sup> )                 | 6                        |  |
| 30–300                   | 61.4                                | 0.163                            | 1.0                                    | 6                        |  |
| 300–1500                 |                                     |                                  | f/300                                  | 6                        |  |
| 1500-100,000             |                                     |                                  | 5                                      | 6                        |  |
|                          | (B) Limits fo                       | r General Population/Uncontroll  | led Exposure                           |                          |  |
| 0.3-1.34                 | 614                                 | 1.63                             | *(100)                                 | 30                       |  |
| 1.34–30                  | 824/f                               | 2.19/f                           | *(180/f <sup>2</sup> )                 | 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

Formula: Pd = (Pout\*G)/(4\*  $\pi$  \*r<sup>2</sup>)

Where:

Pd = power density in mW/cm<sup>2</sup>,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

 $\pi = 3.14$ ;

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

## 2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





Turn-up power

Mode Peak power range(dBm)

WIFI 7.00-10.00

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|      | Output power | Antenna   | Power     | Limit                 | Result |
|------|--------------|-----------|-----------|-----------------------|--------|
| WIFI | (dBm/ mW)    | Gain(dBi) | Density   | (mW/cm <sup>2</sup> ) |        |
|      |              |           | at R=20cm |                       |        |
|      |              |           | (mW/cm²)  |                       |        |
|      | 10/10.00     | 1.0       | 0.00251   | 1.0                   | Pass   |

Conclusion: No SAR is required