

1. Test Results

1.1 Transmitter Requirements & Test Suites

1.1.1 RF Exposure Compliance

RESULT:**Pass**

FCC ID	:	SS3-M3E2206
Test standard	:	FCC Part 1.1091
Limit	:	Table 1 of 47 CFR FCC Part 1.1310
Kind of test site	:	Shielded room

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modelling should be used to determine compliance.

MPE Calculation is based on the conducted power, and considering maximum power and Antenna gain. The following formula is used to MPE evaluation.

$$Pd = \frac{P_{out} * G}{4R^2\pi}$$

Where

P_d = power density in mW/cm² or W/m²

P_{out} = output power to antenna in mW or W

G_{num} = Antenna gain in numeric

π = 3.14159

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

1.1.1.1 Radio Frequency Exposure Limit

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) 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

1.1.1.2 Radio Frequency Exposure Calculation Formula

Table 1: Test Results of RF Exposure Calculations for FCC, stand-alone mode

Operating Mode	Max. EIRP* incl. tune-up (dBm)	Distance (cm)	MPE P _d (mW/cm ²)	Limit (mW/cm ²)	Verdict
2.4GHz SDR	32.00	20	0.315	1.0	Pass
5.8GHz SDR	32.50	20	0.354	1.0	Pass

Note:

1. The 2.4GHz SDR and 5.8GHz SDR mode of EUT cannot transmitting simultaneously.
2. 2.4G SDR and 5.8GHz SDR RF Output Power: Refer to test report CN22SRMQ 002 & CN22SRMQ 003.
3. EIRP= Conducted power +Directional Gain

1.1.1.3 Simultaneous transmission MPE

Not applicable.

The 2.4GHz SDR and 5.8GHz SDR mode of EUT cannot transmitting simultaneously.

1.1.1.4 Conclusion

Therefore the maximum calculations result of above are meet the requirement of Radio Frequency Exposure (MPE) limit.