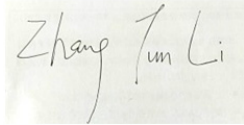

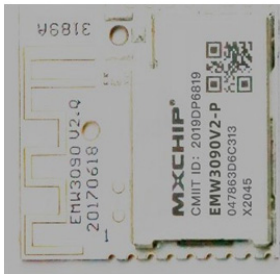


Antenna specification

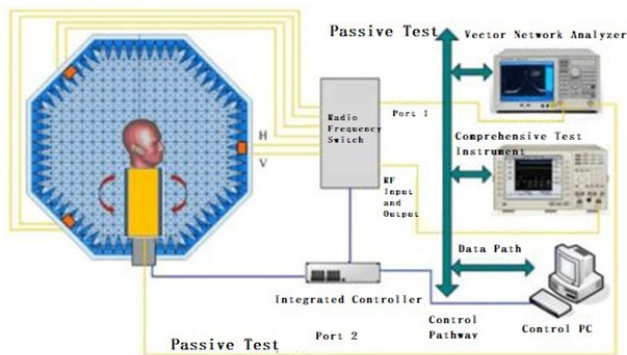
| | |
|----------------------------------|---|
| Model Name | EMW3090V2-P |
| HW Solution | IOT WLAN (802.11) Module MX1290V2 |
| FW Version | 0000.0000.A304 |
| Report No. | MXCHIP-EMW3090V2-P RF Test_001 |
| Manufacture and Applicant | Shanghai MXCHIP Information Technology |
| Address | 9th Floor, No.5, Lane2145, Jinsha Jiang Road, Putuo District, Shanghai |

| | |
|-----------------|--|
| Tester |  |
| Reviewer |  |

1. Test Device



2. Test Environment Setup



2. Test Equipment

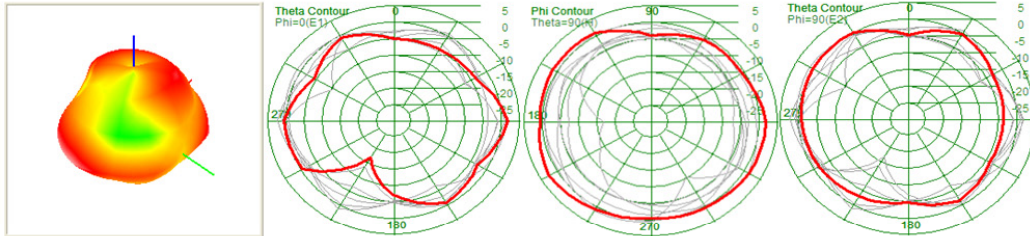
| Equipment | Model | Manufacture |
|-------------------------------|--------------|-------------|
| Vector Network Analyzer | E5071C | KEYSIGHT |
| Comprehensive Test Instrument | RayZone-5000 | GTS |

4. Antenna Efficient and Gain

| Passive Test For WIFI | | | | | | | | |
|-----------------------|----------|-----------|------------|------------|----------|----------|-------------|-------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | Max (dB) | Min (dB) | Attenut Hor | Attenut Ver |
| 2400 | 63.0 | -2.0 | 1.2 | -1.0 | 1.2 | -12.2 | 53.3 | 52.6 |
| 2410 | 62.7 | -2.0 | 1.0 | -1.1 | 1.0 | -11.9 | 53.3 | 52.6 |
| 2420 | 62.2 | -2.1 | 0.9 | -1.2 | 0.9 | -11.7 | 53.5 | 52.6 |
| 2430 | 63.0 | -2.0 | 0.9 | -1.3 | 0.9 | -11.3 | 53.3 | 52.7 |
| 2440 | 62.1 | -2.1 | 0.7 | -1.5 | 0.7 | -10.9 | 53.4 | 52.8 |
| 2450 | 63.7 | -2.0 | 0.6 | -1.5 | 0.6 | -10.9 | 53.5 | 53.0 |
| 2460 | 62.5 | -2.0 | 0.6 | -1.5 | 0.6 | -11.2 | 53.5 | 52.9 |
| 2470 | 63.8 | -2.0 | 0.8 | -1.4 | 0.8 | -11.0 | 53.5 | 52.9 |
| 2480 | 64.6 | -1.9 | 0.9 | -1.3 | 0.9 | -10.9 | 53.5 | 52.8 |
| 2490 | 63.1 | -2.0 | 0.8 | -1.3 | 0.8 | -10.8 | 53.5 | 52.9 |
| 2500 | 61.7 | -2.1 | 0.8 | -1.4 | 0.8 | -10.9 | 53.5 | 52.9 |

5. Antenna Radiation

2450MHz



6. Antenna Dimension

Antenna Type: PCB Antenna, 2.4GHz

