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# RS6130 AIP ANTENNA TEST REPORT

2026/01/26

V1.4.1

# PRODUCTION SPECIFICATION

**Company:** Possumic Technology Co.,Ltd

**Addr:** Room 603, Building B, Creative Cloud, No. 1 Gangwan, Tangjiawan

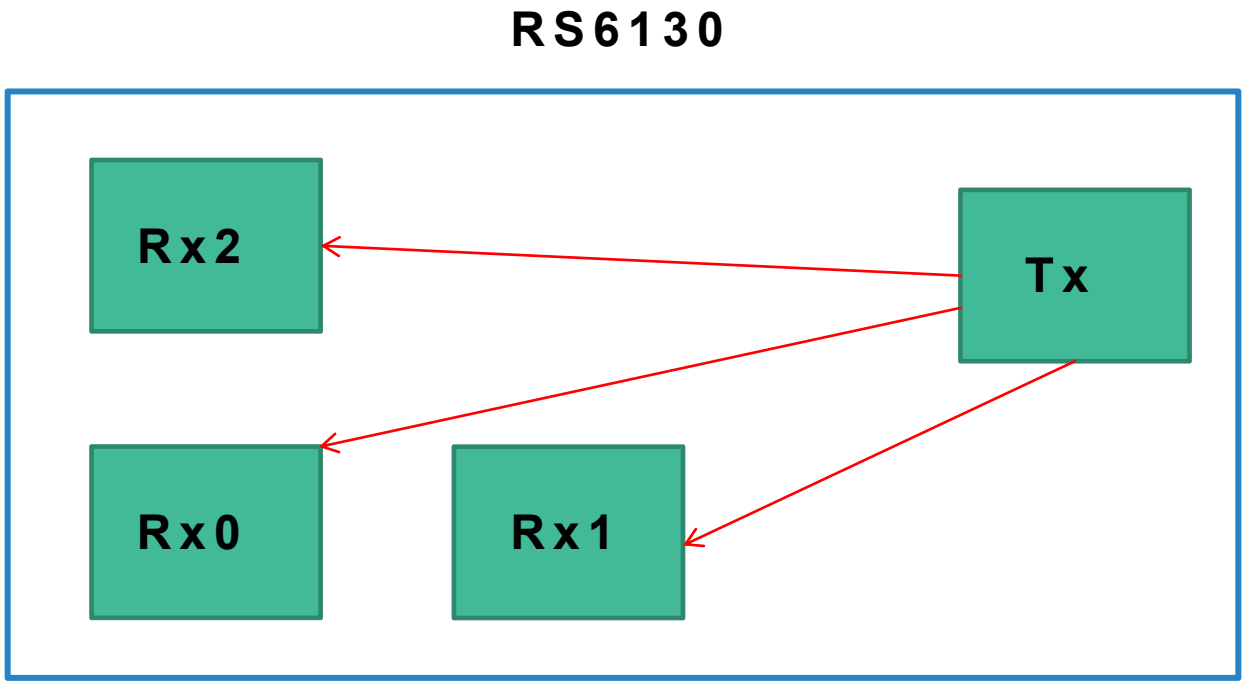
**Model Name:** RS6130

**Model Size:** 8.8mm(Length)X5.8mm(Width)X0.68mm(Thickness)

**Antenna Type:** Antenna in Package(AiP)

# AIP ANTENNA TEST DESCRIPTION

**RS6130 1T3R(Tx→Rx0，Tx→Rx1，Tx→Rx2) Gain and Radiation Pattern of three channels**

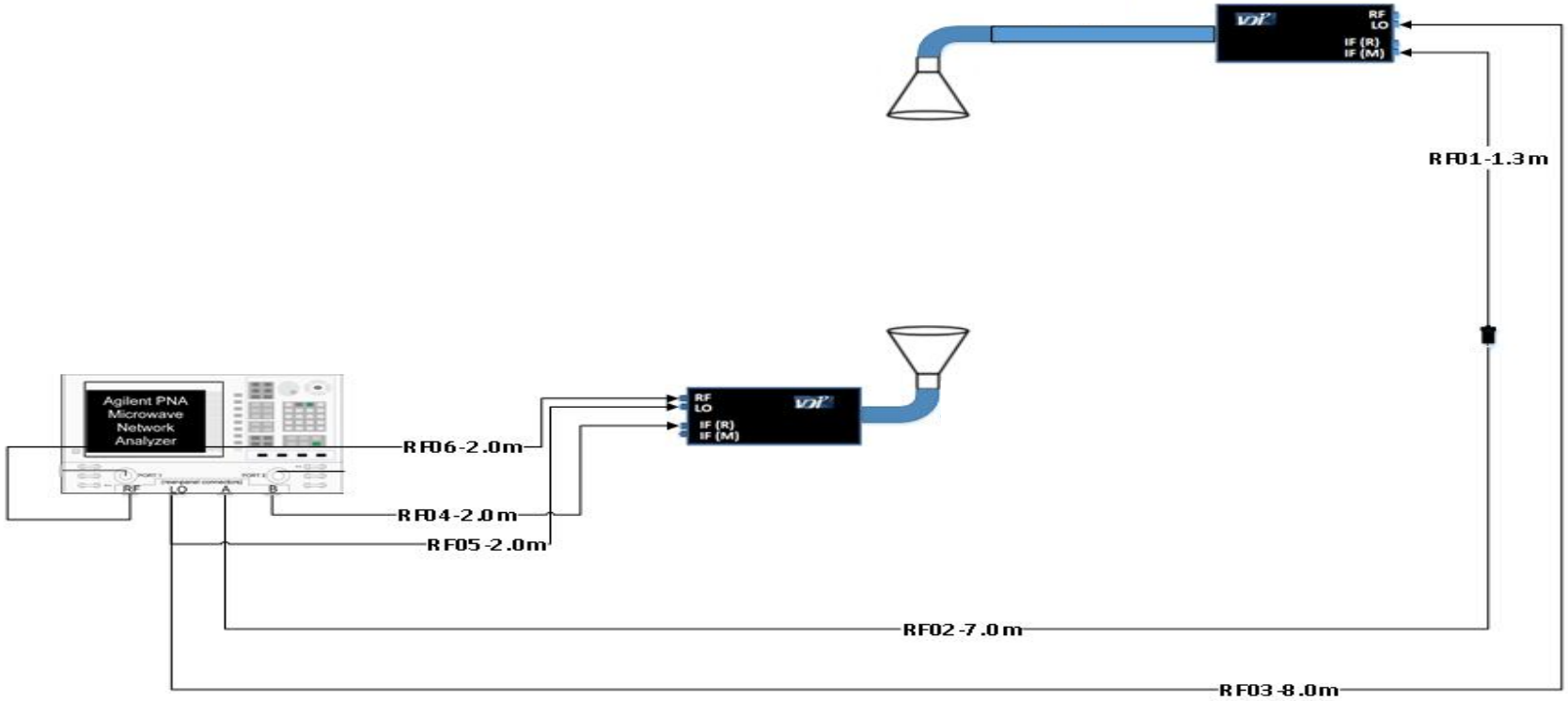


# AIP ANTENNA TEST PRINCIPLE AND METHOD

**Principle:** Conservation, that is, the signal power received by Rx is equal to the power lost in the energy space when the Tx transmit power is lost.

**Gain test method:** Comparison method, using the equal power loss in space, replacing the Rx antenna with a horn antenna for reception to obtain the Rx antenna gain.

**Directional pattern test method:** Use angular reflection to collect level values in different directions, and then obtain a normalized pattern.



# ANTENNA GAIN RESULTS

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ANT Gain=EIRP-Tx Output Power
Average Gain of AiP antenna about **7dBi**

| Frequency (GHz) | EIRP (dBm) | Chip Tx Output Power (dBm) | ANT Gain (dBi) |
|---|---|---|---|
| 58 | 17.67 | 10.5 | **7.17** |
| 59 | 17.62 | 10.7 | **6.92** |
| 60 | 17.39 | 10.5 | **6.89** |
| 61 | 17.93 | 10.5 | **7.43** |
| 62 | 16.81 | 9.7 | **7.11** |
| 63 | 15.65 | 9.0 | **6.65** |
| 64 | 15.00 | 8.2 | **6.80** |

# TX RADIATION PATTERN

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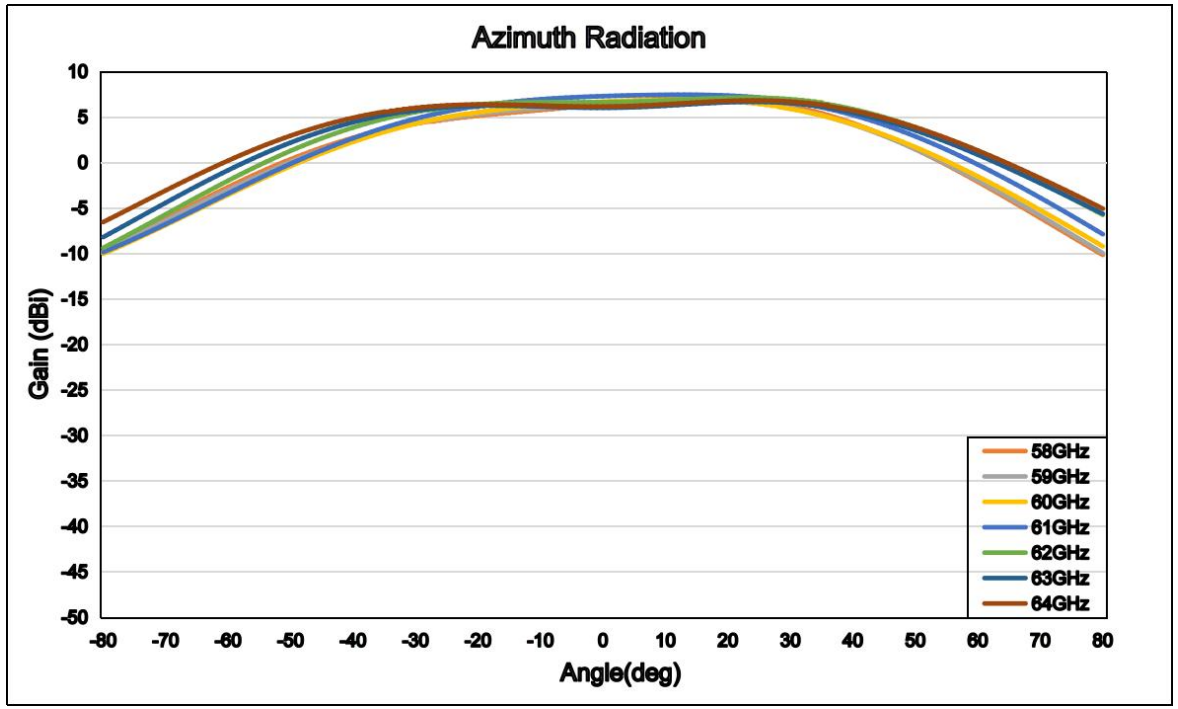
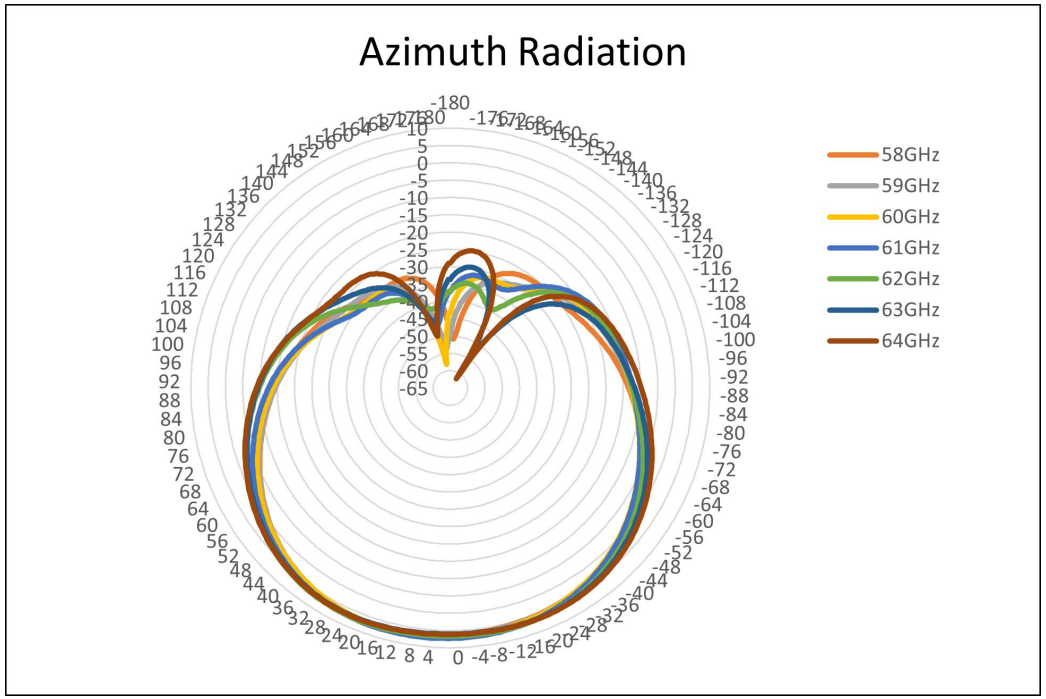
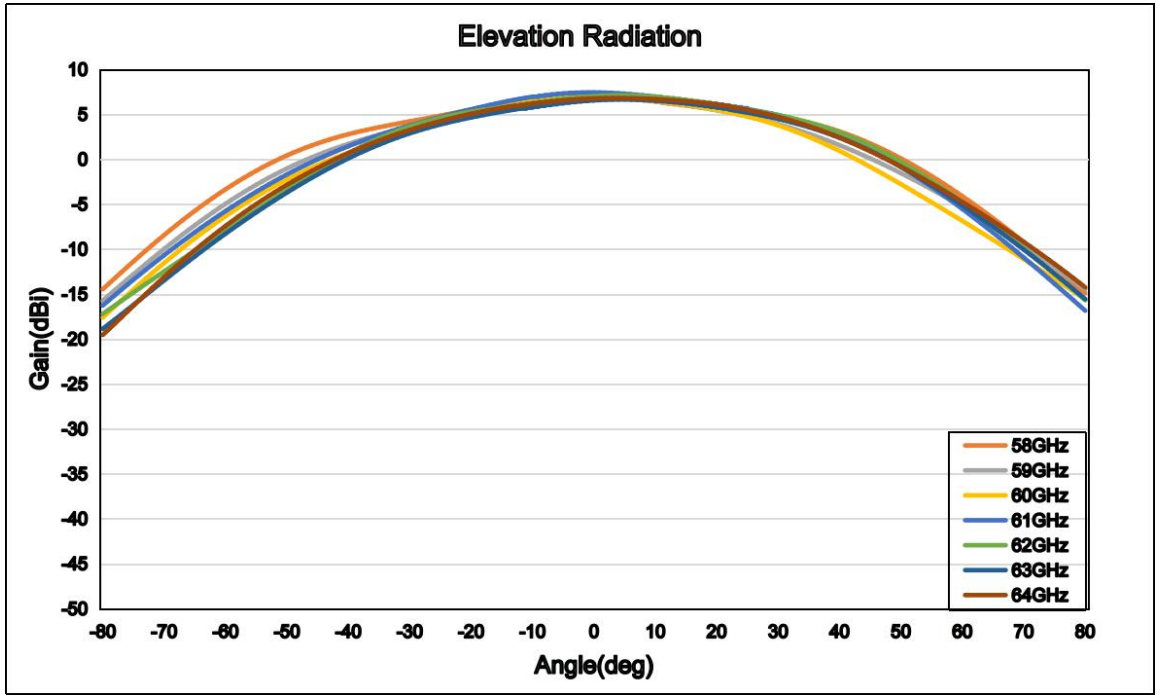
## TX antenna radiation gain

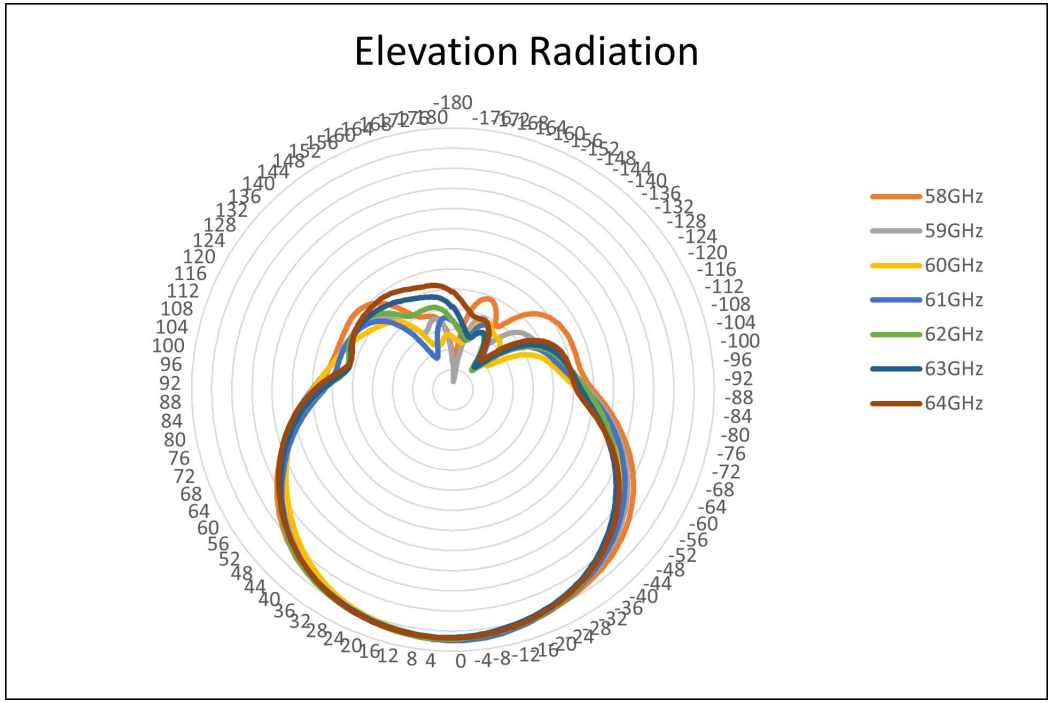


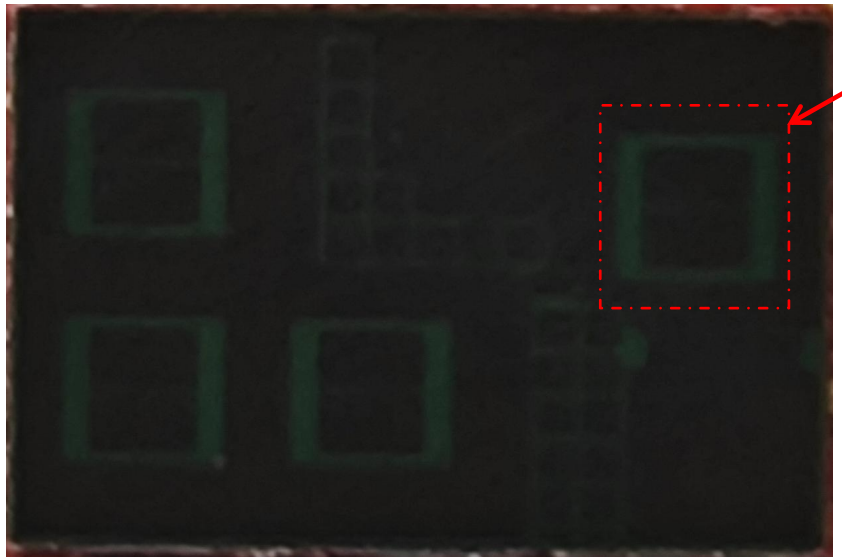
# TX RADIATION PATTERN

## TX antenna radiation gain



# ANTENNA PORT



TX antenna port