

# ANTENNA TEST REPORT

**Product :** PCB antenna  
**Brand:** Fanstel  
**Model:** PCB  
**Model Difference:** N/A  
**Applicant:** Fanstel Corporation, Taipei  
**Address:** 10F-10, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
Hsi-Chih, New Taipei City 221 Taiwan

## Test Performed by:

### International Standards Laboratory

<LT Lab.>

\*Address:

No. 120, Lane 180, San Ho Tsuen, Hsin Ho Rd.

Lung-Tan Hsiang, Tao Yuan County 325, Taiwan

\*Tel : 886-3-407-1718; Fax: 886-3-407-1738

Report No.: **ISL-19LR246ANT1**

Issue Date : **2019/10/17**

Test By:

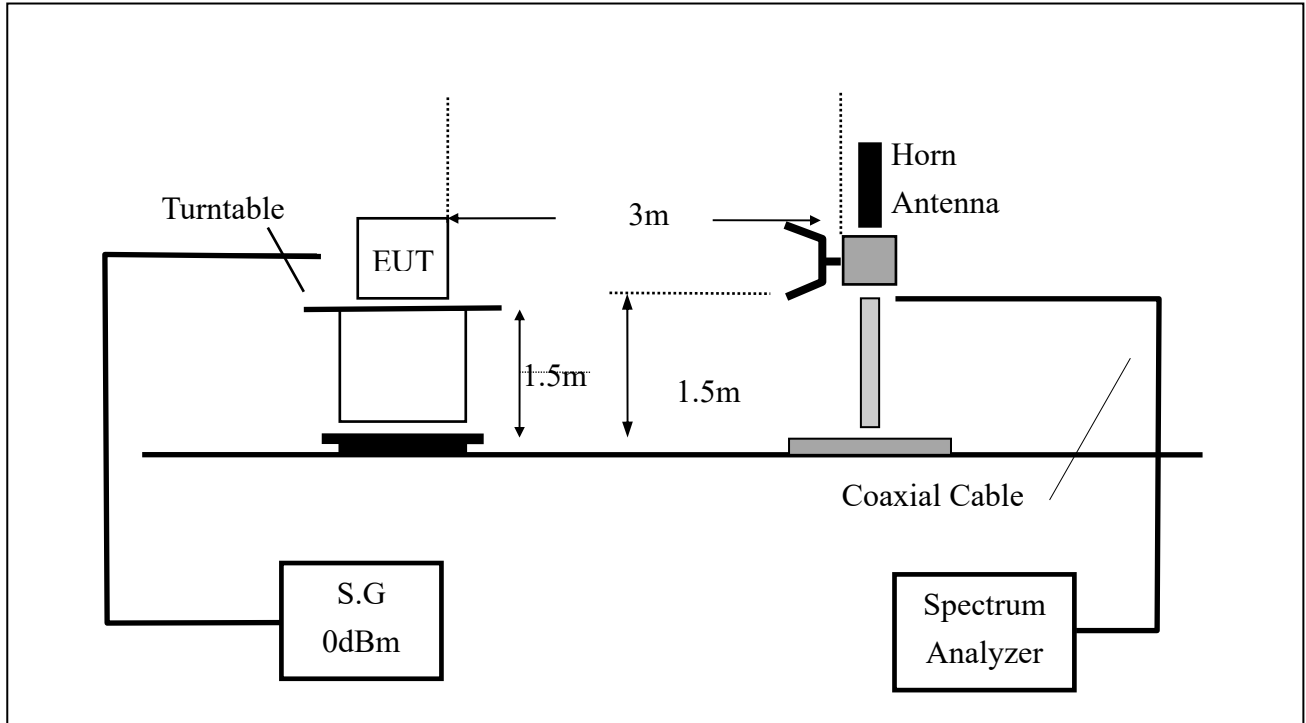
*Barry Lee*

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

This report **MUST** not be used to claim product endorsement by TAF, NEMKO or any agency of the Government.

This test report shall not be reproduced except in full, without the written approval of International Standards Laboratory.

## 1. Test SET-UP (Block Diagram of Configuration)



| Measurement Equipment Used: |             |              |               |            |            |
|-----------------------------|-------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE              | MFR         | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer           | Agilent     | N9010A       | MY52100117    | 06/30/2019 | 06/29/2020 |
| Horn antenna                | SCHWARZBECK | 9120D        | 9120D-1627    | 07/21/2019 | 07/20/2020 |
| Horn antenna                | EM          | EM-AH-10180  | 2011090207    | 10/05/2019 | 10/04/2020 |
| Signal Generator            | R&S         | SMU200A      | 102330        | 05/15/2019 | 05/14/2020 |

## 2. EUT Photo

Figure 1  
2.4G Antenna

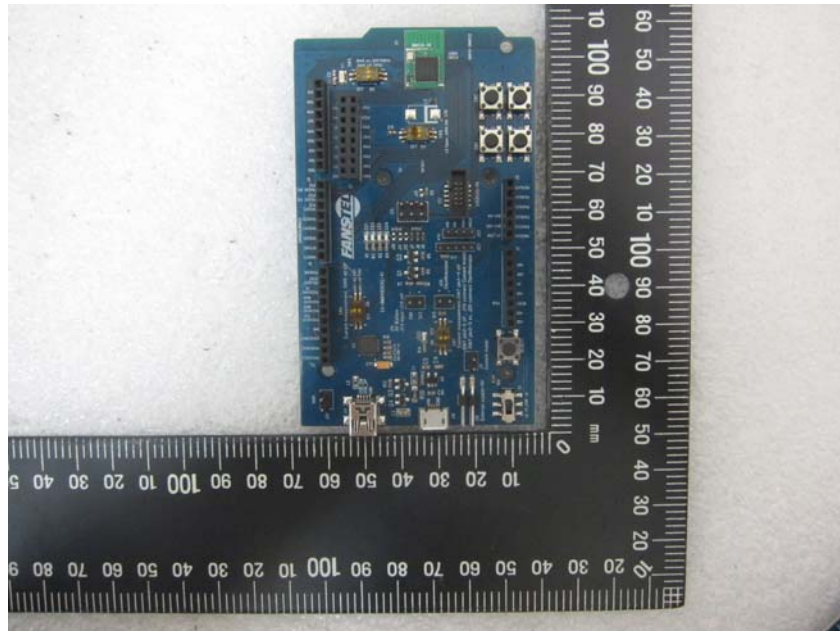
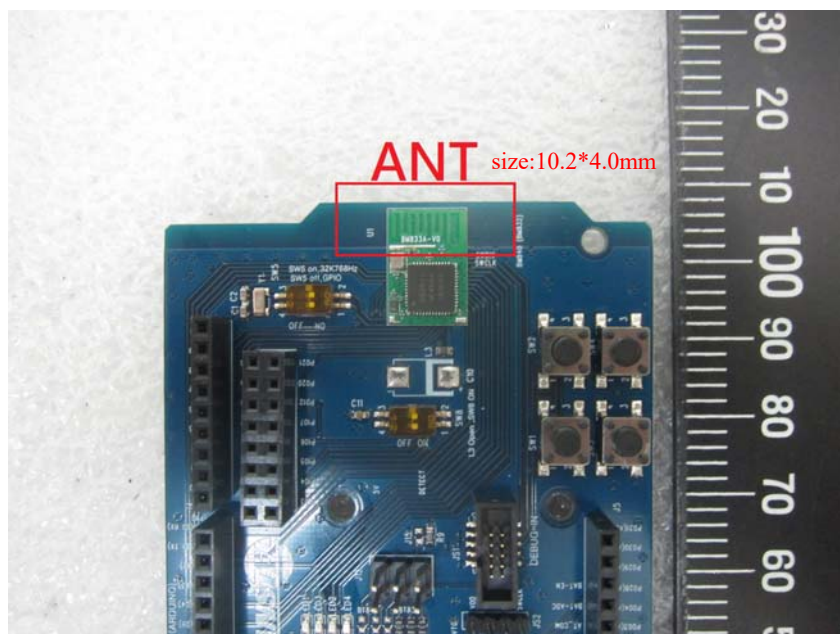


Figure 2



## Test Result

### 2.4G Antenna

|                                  |            |
|----------------------------------|------------|
| <b>Maximum gain test result:</b> |            |
| Maximum antenna Gain             | = 0.01 dBi |

| Antenna Gain | 2400  | 2450  | 2500 | Unit |
|--------------|-------|-------|------|------|
|              | -1.92 | -0.44 | 0.01 | dBi  |

Figure 1. 2.4G Antenna 2400MHz

Figure 2. 2.4G Antenna 2450MHz

Figure 3. 2.4G Antenna 2500MHz

Figure 1

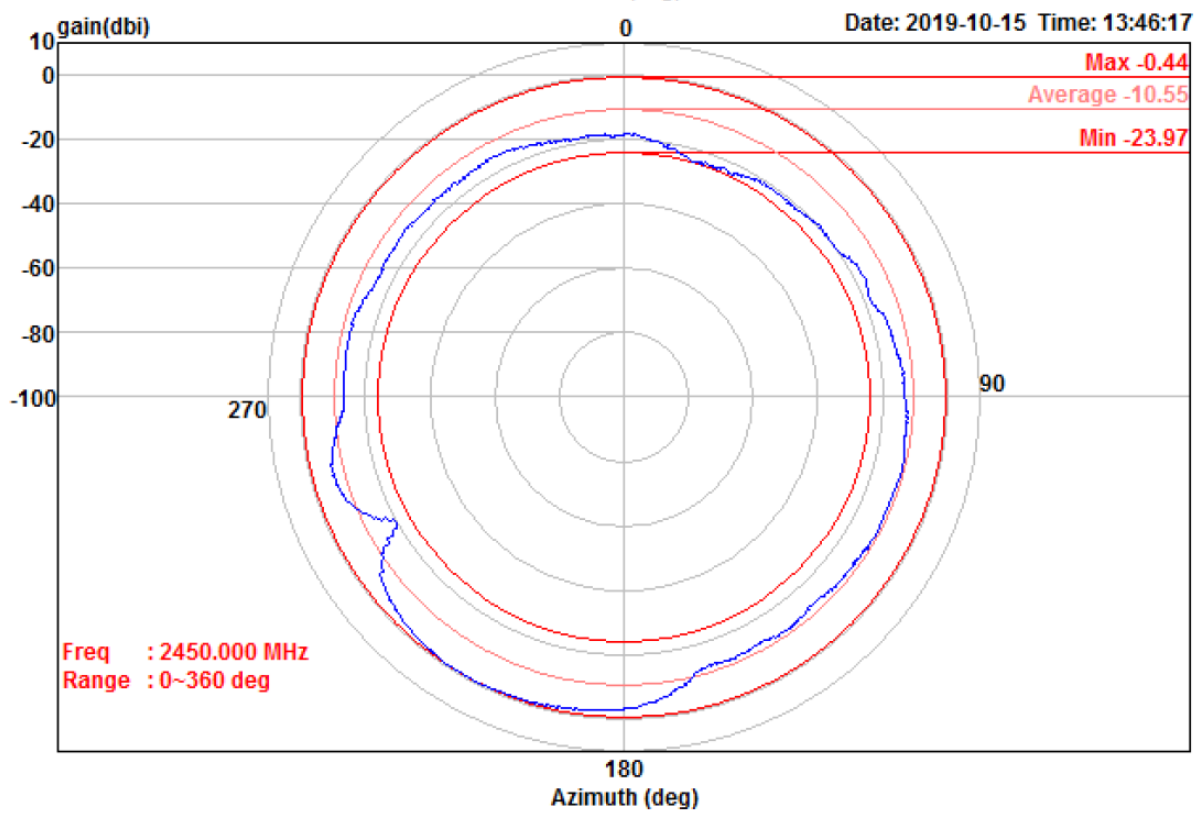
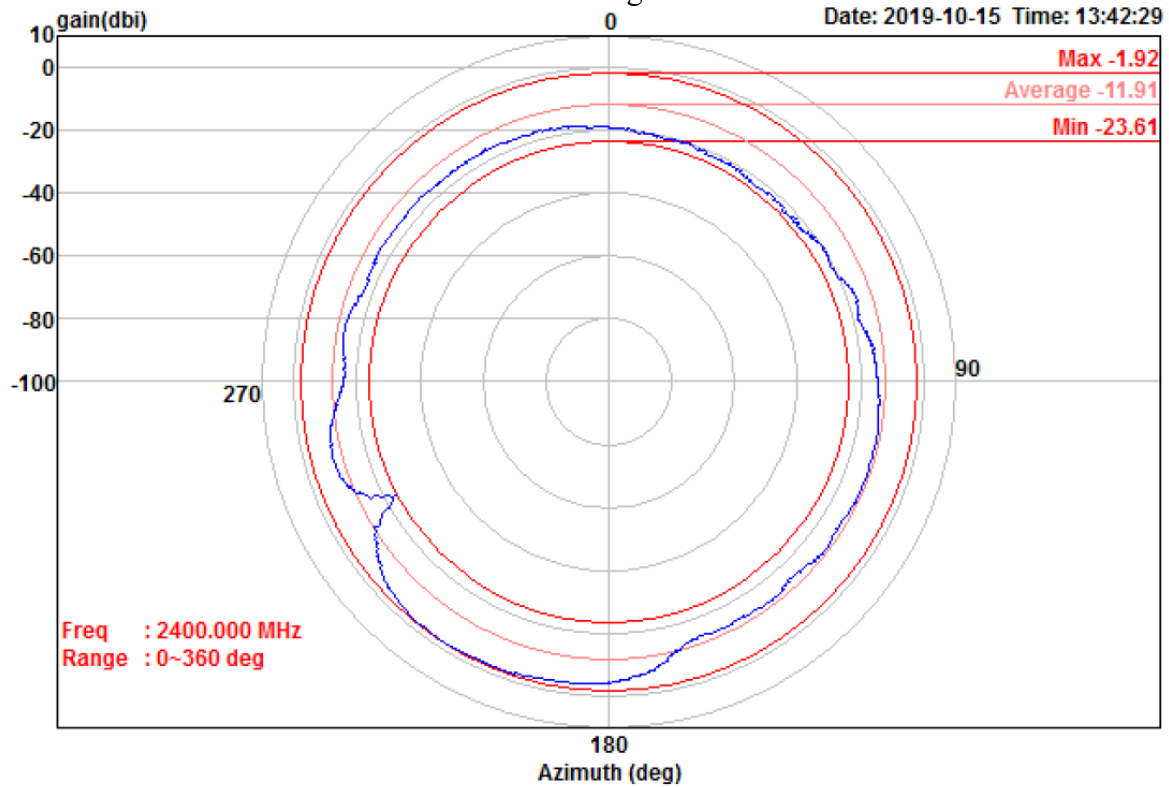


Figure 2

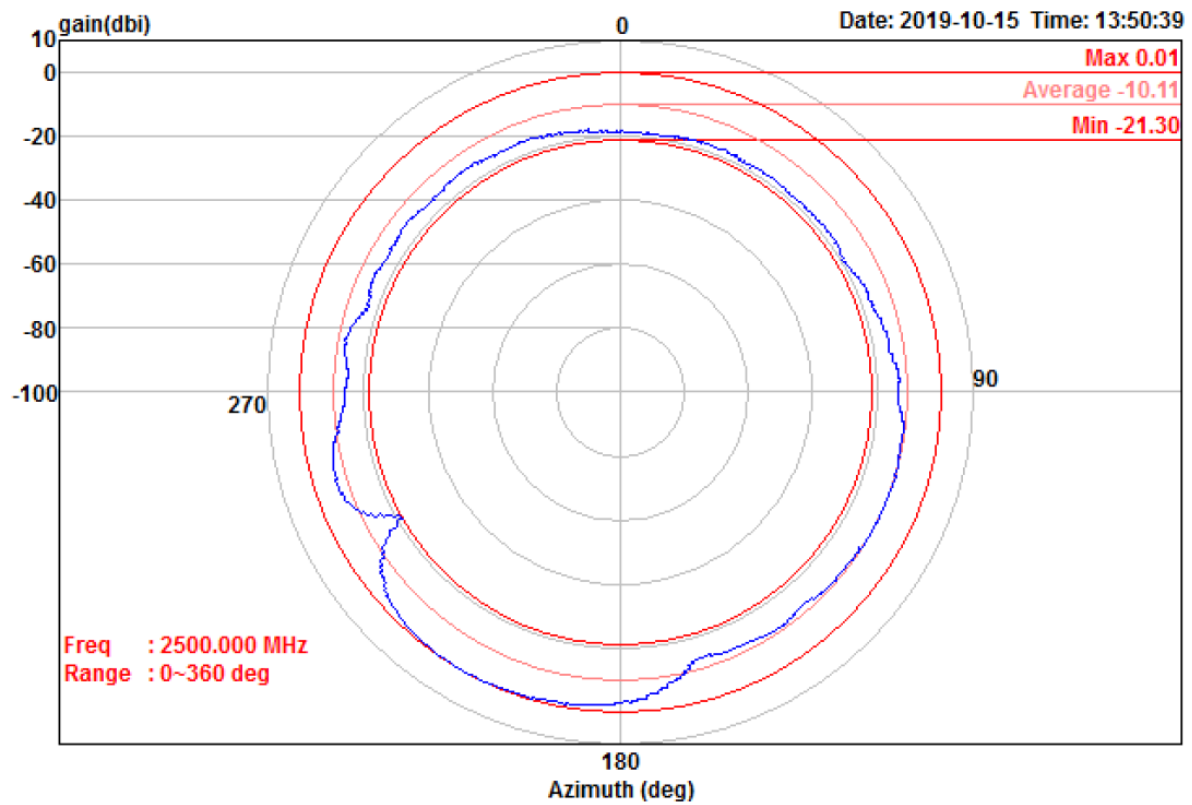


Figure 3