

客戶名稱 : LG 16U70Q  
CUSTOMER

Document No.: ENS000159610

Approval Sheet Rev.: A0

Spec. Rev. : P0

# 承認書

## APPROVAL SHEET

產品品名/Product Model

WA-P-LE-02-080

No. :

客戶料號/Customer No. :

EAA65978501

發行日期/ Issue Date :

2021/12/08

承認日期/ Approved Date :

Approved by customer: (signing or stamping here)



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1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

#### 4-5.3 Efficiency and Gain

Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

##### 4-5-3-1 Electrical specification

| Frequency (MHz) | Average Efficiency (%) |
|-----------------|------------------------|
| 2400~2500       | >30                    |
| 5100~5825       | >30                    |
| 5925~7125       | >30                    |

##### 4-5.3-2 Efficiency and Gain Test Data

| Frequency(MHz) | Main Antenna-1  |                  |               |
|----------------|-----------------|------------------|---------------|
|                | Peak Gain (dBi) | Efficiency (dBi) | Efficiency(%) |
| 2400           | 2.6             | -4.9             | 32.6          |
| 2450           | 2.7             | -4.4             | 35.9          |
| 2500           | 3.4             | -4.1             | 38.9          |
| 5150           | 5.6             | -4.5             | 35.7          |
| 5400           | 5.7             | -4.0             | 40.2          |
| 5850           | 5.8             | -3.4             | 45.7          |
| 5925           | 5.6             | -4.5             | 35.7          |
| 6525           | 5.2             | -3.6             | 43.8          |
| 7125           | 5.1             | -4.6             | 34.7          |

| Frequency(MHz) | AUX Antenna-1   |                  |               |
|----------------|-----------------|------------------|---------------|
|                | Peak Gain (dBi) | Efficiency (dBi) | Efficiency(%) |
| 2400           | 2.7             | -4.6             | 34.7          |
| 2450           | 2.2             | -4.6             | 34.5          |
| 2500           | 1.5             | -4.9             | 32.1          |
| 5150           | 5.3             | -3.8             | 41.3          |
| 5400           | 5.4             | -4.0             | 39.6          |
| 5850           | 5.2             | -4.1             | 39.2          |
| 5925           | 4.6             | -4.6             | 35.0          |
| 6525           | 5.0             | -4.3             | 36.9          |
| 7125           | 4.6             | -4.6             | 34.8          |

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±                      X.X=±                      X.XX=±

ANGLES=±                      HOLEDIA=±

SCALE :                      UNIT : mm

DRAWN BY: 王婷                      CHECKED BY: 张涛

DESIGNED BY: 胡志清                      APPROVED BY: 徐克文

TITLE : WA-P-LE-02-080 Specification



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INPAQ TECHNOLOGY CO., LTD.

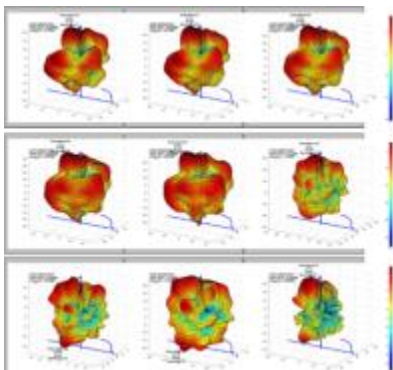
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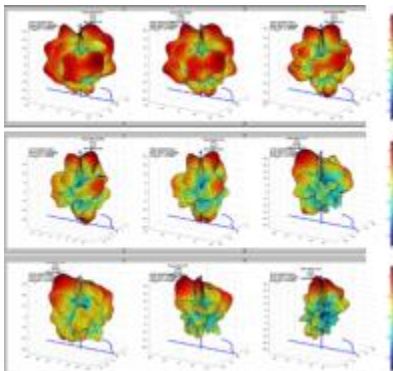
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### 4-5.3-3 Antenna 3D Radiation Pattern

Main Antenna-1



AUX Antenna-1



|                                        |                   |                                                                                                                              |                                                                                                                                                                                                       |
|----------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| X=±                                    | X.X=±      X.XX=± |                                                                                                                              |                                                                                                                                                                                                       |
| ANGLES=±                               | HOLEDIA=±         |                                                                                                                              |                                                                                                                                                                                                       |
| SCALE :                                | UNIT : mm         |                                                                                                                              |                                                                                                                                                                                                       |
| DRAWN BY: 王婷                           | CHECKED BY: 张涛    |                                                                                                                              |                                                                                                                                                                                                       |
| DESIGNED BY : 胡志清                      | APPROVED BY : 徐克文 |                                                                                                                              |                                                                                                                                                                                                       |
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