

APPLICANT

PRODUCT NAME

REPORT No.: SZ23040177E01

TEST REPORT

: Feit Electric Company Inc.

: Onesync white remote

| MODEL NAME | : SYNC/REMOTE | |
|--------------|---------------------|--------------------------|
| TRADE NAME | : FEIT | |
| BRAND NAME | : FEIT | |
| STANDARD(S) | : IEEE Std 149-2021 | |
| RECEIPT DATE | : 2023-04-11 | |
| TEST DATE | : 2023-04-12 | |
| ISSUE DATE | : 2023-05-24 | |
| | | |
| | Edited by: | Fang Jinsham |
| | | Fang Jinshan(Rapporteur) |
| | Approved by: | an Grade |

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DIRECTORY

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| Change History | | | |
|----------------|----------------------------|-------------------|--|
| Version Date | | Reason for change | |
| 1.0 | 0 2023-05-24 First edition | | |



1.Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

| Applicant: | Feit Electric Company Inc. | |
|-----------------------|---|--|
| Applicant Address: | 4F., N4901 Gregg Road Pico Rivera,Ca 90660 | |
| Manufacturer: | NATIONAL STATE INDUSTRIES LTD. | |
| Manufacturer Address: | Wulian Industrial Zone, Fenggang Town, Dongguan City, | |
| | Guangdong, China. | |

1.2. Equipment Under Test (EUT) Description

| Wireless Type | N/A | |
|---------------|-----------------|--|
| Frequency | 2400MHz-2500MHz | |
| IMEI | N/A | |
| Sample No. | 1# | |





2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

| No. | Identity | Document Title | |
|-----|-------------------|---------------------------------------|--|
| 1 | IEEE Std 149-2021 | IEEE Recommended Practice for Antenna | |
| | 1EEE 3td 149-2021 | Measurements | |

2.2. Test Conditions

Test Environment Conditions:

| Relative Humidity(%): | 25 - 75 |
|-----------------------|---------|
| Temperature(°C): | 10 - 30 |

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

| Item | Measurement Uncertainty(dB) | | |
|--|-----------------------------|--|--|
| Gain | ±0.5 | | |
| VSWR | ±0.2 | | |
| Measurement Uncertainty(95% Confidence Interval) K=2 | | | |



2.4. Test Results

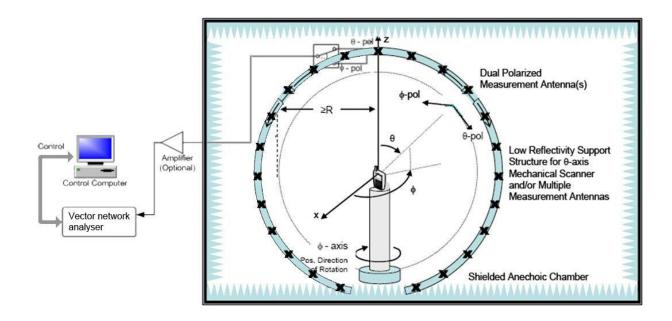
2.4.1.Gain

| Frequency (MHz) | Gain(dBi) | | |
|--------------------|-----------|--|--|
| 2400 | -7.18 | | |
| 2410 | -8.19 | | |
| 2420 | -8.04 | | |
| 2430 | -8.66 | | |
| 2440 | -7.92 | | |
| 2450 | -8.44 | | |
| 2460 | -9.13 | | |
| 2470 | -8.73 | | |
| 2480 | -8.40 | | |
| 2490 | -8.95 | | |
| 2500 | -9.13 | | |





Annex A Test Setup Photos

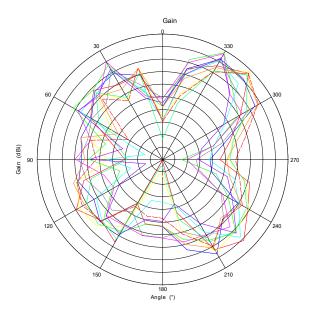






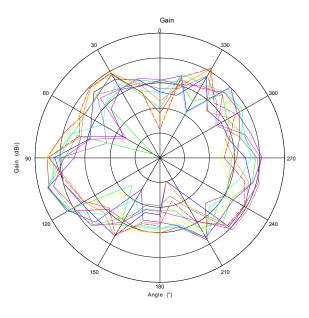
Annex B Figures

1. 2D Radiation Pattern



Max: -10 Min: -30

Phi=0°

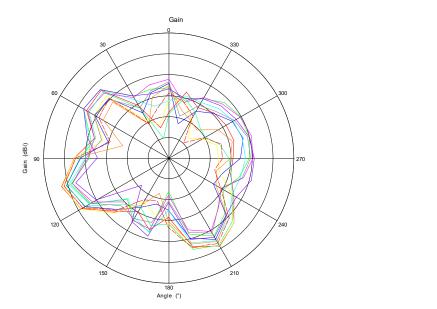


Max: -10 Min: -35

Phi=90°



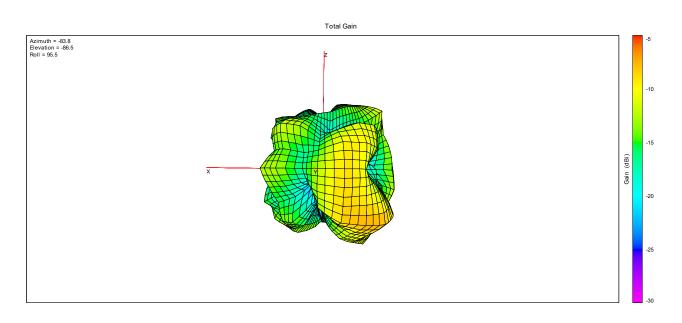




Max: -5 Min: -35 Scale: 5/div

Theta=90°

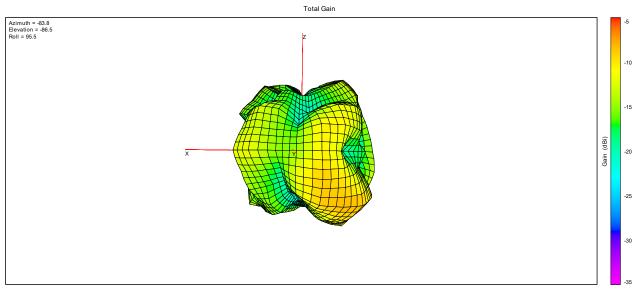
2. 3D Radiation Pattern



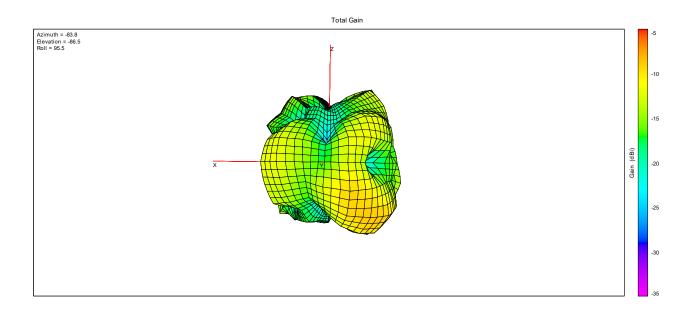
2400MHz







2440MHz



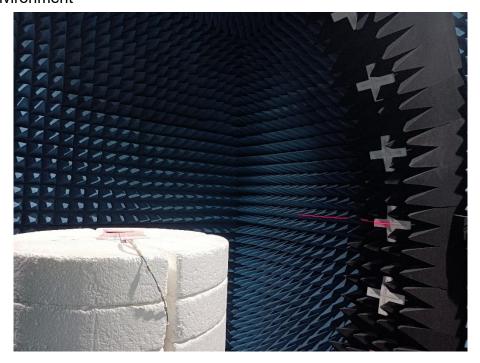
2480MHz

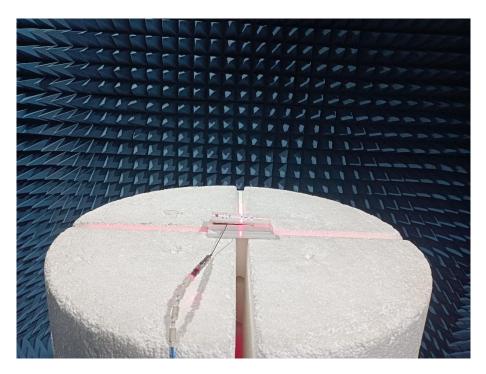




Annex C EUT Photos

1. Test environment



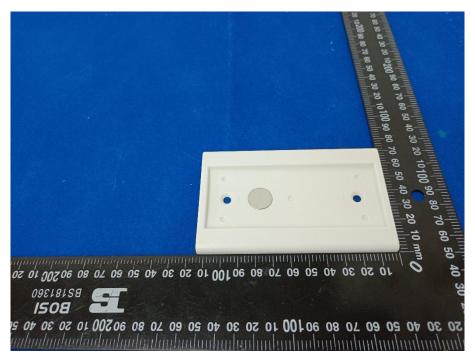






2. EUT

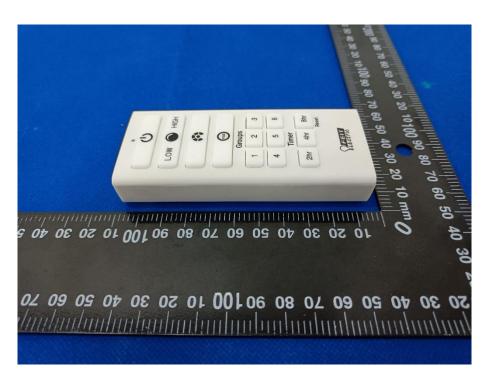








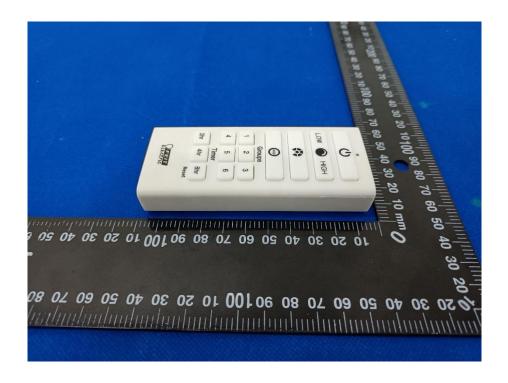




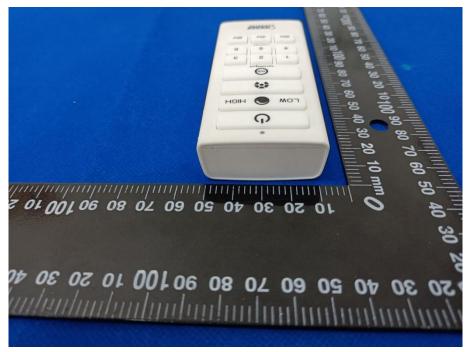








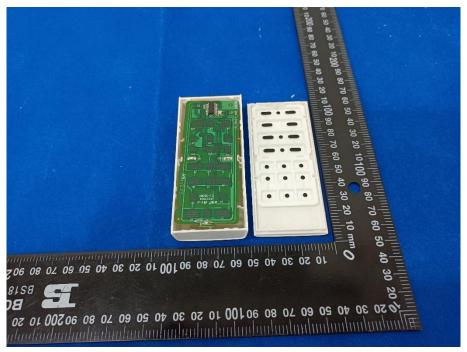


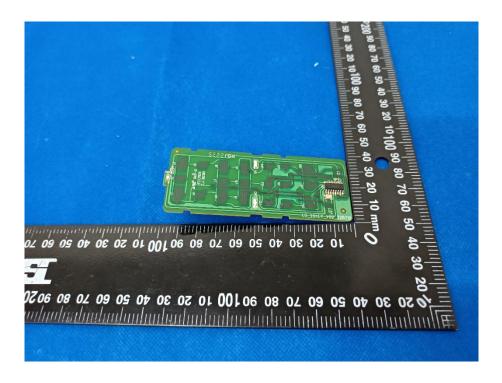






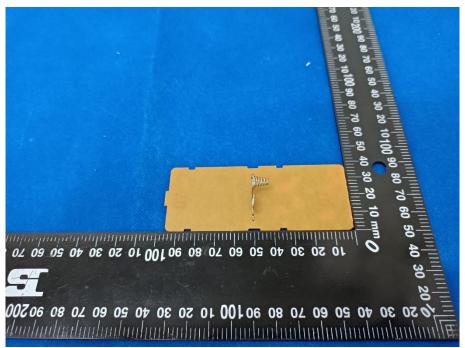


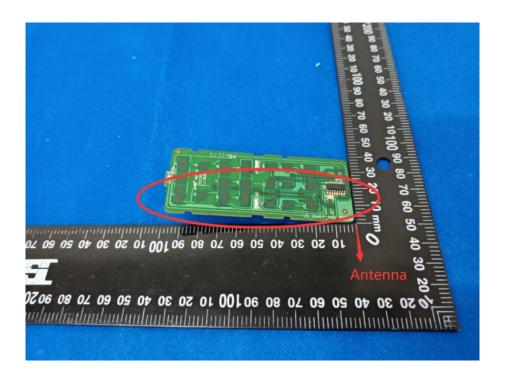
















Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

| Laboratory Name: | Shenzhen Morlab Communications Technology Co., Ltd. | |
|---------------------|---|--|
| Laboratory Address: | FL.1-3, Building A, FeiYang Science Park, No.8 | |
| | LongChang Road, Block67, BaoAn District, ShenZhen, | |
| | GuangDong Province, P. R. China | |
| Telephone: | +86 755 36698555 | |
| Facsimile: | +86 755 36698525 | |

1.2 Identification of the Responsible Testing Location

| Name: | Shenzhen Morlab Communications Technology Co., Ltd. | | |
|----------|---|--|--|
| Address: | FL.1-3, Building A, FeiYang Science Park, No.8 | | |
| | LongChang Road, Block67, BaoAn District, ShenZhen, | | |
| | GuangDong Province, P. R. China | | |

1.3 Test Equipments Utilized

| No | Equipement Name | Serial No. | Type | Manufacturer | Cal.Date | Cal.Due Date |
|-------------|--------------------|--------------|---------|--------------|------------|-----------------|
| 1 | Network | MY46110140 | E5071C | Agilent | 2022.07.04 | 2023.07.03 |
| | Analyzer | | | _ | | |
| 2 | OTA Chamber | TJ2235-Q1793 | AMS-892 | ETS | 2022.11.30 | 2025.11.29 |
| 2 OTA Chami | OTA Chambel | 132233-Q1793 | 3-150 | EIS | 2022.11.30 | 2023.11.29 |
| | | | EMQuest | | | |
| | Antenna | | EMQ-100 | | | |
| 3 | Measurement | 1685 | V 1.13 | ETS | N/A | N/A |
| | System | | Build | | | |
| | | | 21267 | | | |



