SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

Shenzhen Strongpower Communication Co., Ltd.

Room 502, building W2-A, Gaoxin South Fourth Road, Nanshan District,

Shenzhen city

330 Bluetooth Aatenna SPECIFICATION

| Customer | TRANSSION | Frequency | 2402MHz-2480MHz |
|-----------|------------|------------|-----------------|
| Model | 330 | Band | |
| Serial No | | Color | |
| RF | Zou Liiun | Structural | Zhou Jun |
| designer | | engineer | |
| Technical | Fu Vicheng | Date | 2023/03/10 |
| director | | Date | 2025/05/10 |

Confirm by customer:

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1. The Equipment of Active&Passive Test

chamber



Satimo



Guang Ping



Airlink



GTS

Confidentiality requirements

equipment



Confidentiality requirements

2. Passive Test



2.1 S Parameters, VSWR, Return loss, Smith Chart

2.2 Passive Efficiency and Gain R

| Frequency(MHz) | Efficiency% | Efficiency (dB) | Gain(dBi) |
|----------------|-------------|--------------------|-----------|
| 2400 | 63% | -1.99 | 2.01 |
| 2410 | 65% | -1.90 | 1.81 |
| 2420 | 64% | -1.92 | 1.80 |
| 2430 | 64% | -1.94 | 1.82 |
| 2440 | 61% | -2.12 | 1.59 |
| 2450 | 65% | -1.90 | 2.07 |
| 2460 | 67% | -1.74 | 2.16 |
| 2470 | 61% | -2.14 | 1.80 |
| 2480 | 66% | -1.83 | 2.06 |

L

| Frequency | | Efficiency | Gain |
|-----------|--------------|------------|-------|
| (MHz) | Efficiency % | (dB) | (dBi) |
| 2400 | 48% | -3.17 | 0.04 |
| 2410 | 53% | -2.78 | 0.69 |
| 2420 | 53% | -2.75 | 0.50 |
| 2430 | 54% | -2.66 | 0.74 |
| 2440 | 53% | -2.74 | 0.79 |

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| 2450 | 56% | -2.52 | 1.09 |
|------------------|--------|-------|------|
| 2460 | 58% | -2.34 | 1.23 |
| 2470 | 54% | -2.64 | 0.72 |
| 2480 | 56% | -2.48 | 1.06 |
| average value | 54.08% | -2.67 | 0.76 |

2.3 Passive pattern



Theta=90

Phi=90°

3.Active test

3.1 TRP&TIS

| FS-R | | |
|------|-------|--------|
| 信道 | TRP | TIS |
| СН | (dBm) | (dBm |
| 0 | 7.25 | -89.26 |
| 39 | 6.39 | -88.78 |
| 78 | 6.57 | -88.86 |

| HR |
|----|
|----|

| 信道 | TRP | TIS |
|----|-------|--------|
| CH | (dBm) | (dBm |
| 0 | 0.44 | -83.87 |
| 39 | 0.66 | -83.41 |
| 78 | -0.53 | -82.37 |

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| гэ-г | | |
|------|-------|--------|
| 信道 | TRP | TIS |
| CH | (dBm) | (dBm |
| 0 | 7.93 | -89.79 |
| 39 | 7.68 | -88.74 |
| 78 | 6.49 | -88.38 |

HL

EC I

| 信道 | TRP | TIS |
|----|-------|--------|
| СН | (dBm) | (dBm |
| 0 | -1.96 | -82.16 |
| 39 | -0.93 | -81.28 |
| 78 | -2.36 | -80.86 |
| | | |

3.2 Active pattern

Left





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HL





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4. Matching Circuit

Left&Right are the same

| Element | E1 | E2 | E3 |
|---------|----|-----|----|
| Value | NC | 0 Ω | NC |



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