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Antenna Test Report

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Antenna Information:

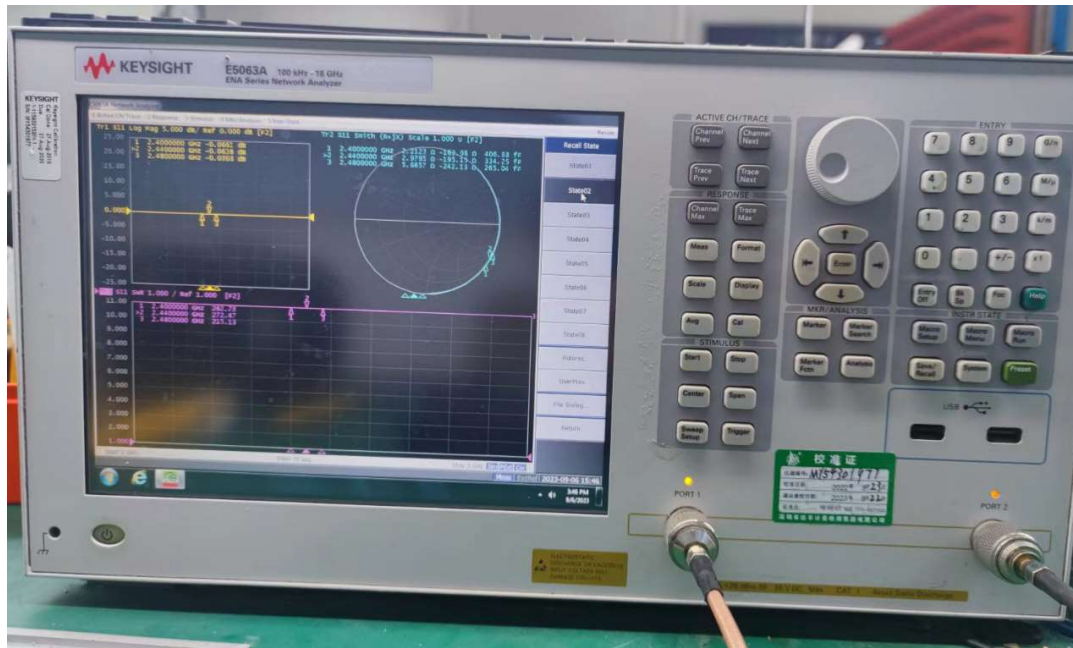
- a. Antenna type: PiFa onboard antenna
- b. Antenna specification: Onboard snake antenna
- c. Antenna manufacturer company:

GUANGDONG TAKSTAR ELECTRONIC CO., LTD.



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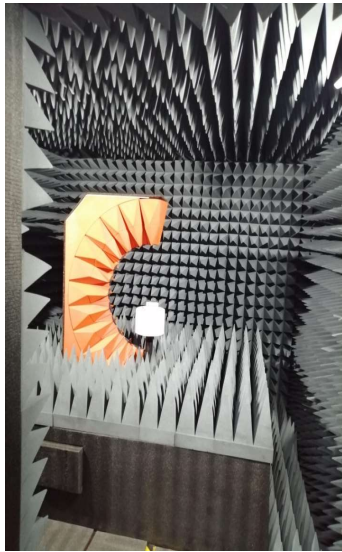
Equipment



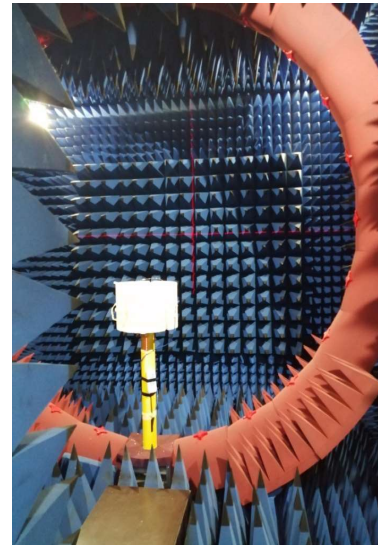
1. Equipment :
Keysight E5063A Network Analyzer
2. Calibration Date: 2022/8/23
3. Test Date: 2023/05/10
4. Names of test personnel : Lugengyun
5. Names of test software :
ETS-Lindgren EM- Quest 1.16

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Test Chamber



The manufacturer of Chamber:
MVG
Spec: 3*3*2.5 chamber



The manufacturer of Chamber:
FEITUKEJI
Spec: 4*4*3.5 chamber

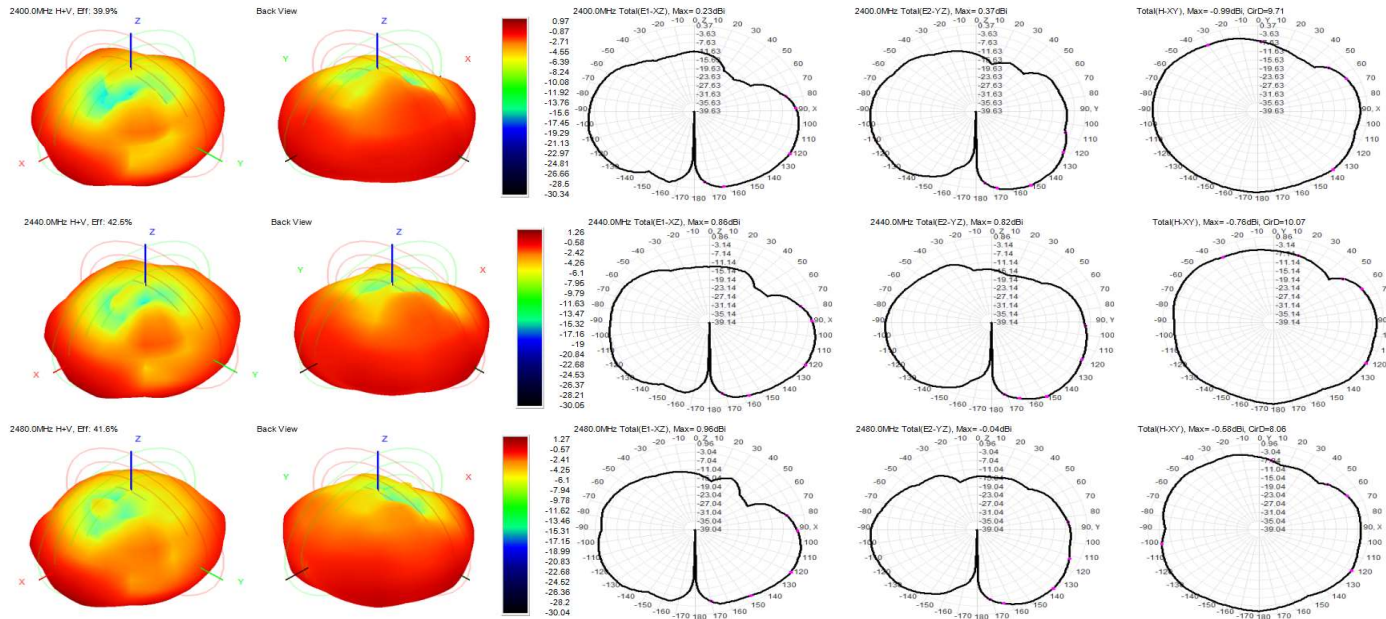


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Headset Antenna:

PiFi Antenna, Free space Passive AppleField graph, Antenna efficiency and gain

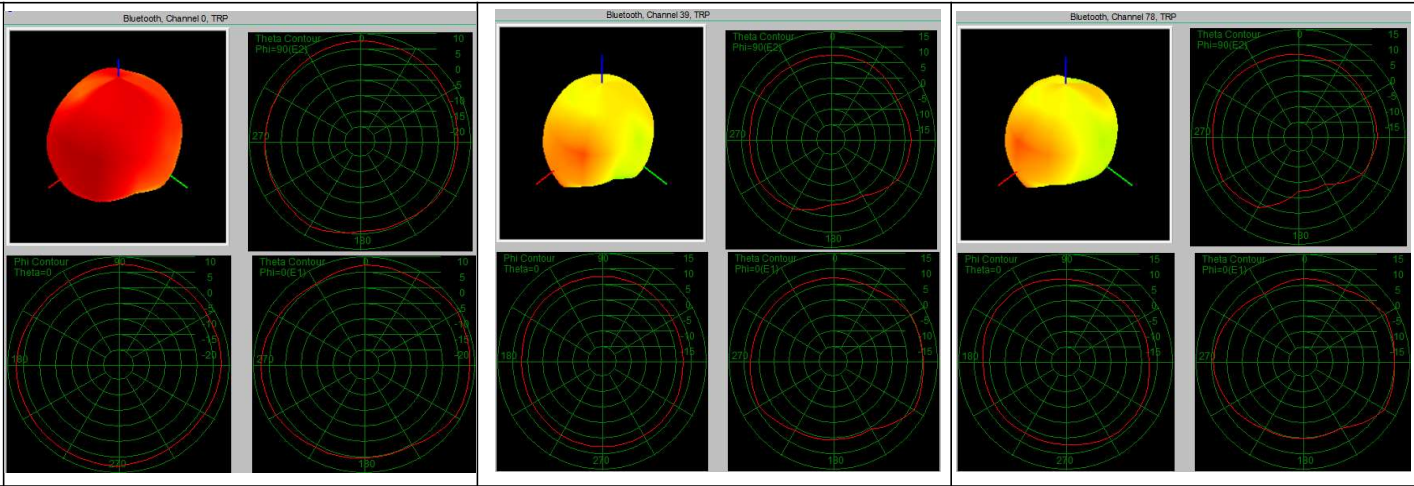


| PCB Antenna passive Free state | | |
|--------------------------------|-------------|----------------|
| Frequency point(MHz) | Gain (dBi) | Efficiency (%) |
| Frequency (MHz) | Gain (dBi) | Efficiency (%) |
| 2400 | 0.97 | 40.10 |
| 2410 | 1.07 | 41.40 |
| 2420 | 1.1 | 41.70 |
| 2430 | 1.15 | 42.50 |
| 2440 | 1.26 | 42.70 |
| 2450 | 1.43 | 42.90 |
| 2460 | 1.59 | 42.90 |
| 2470 | 1.48 | 42.40 |
| 2480 | 1.27 | 41.80 |
| 2490 | 1.03 | 40.90 |
| 2500 | 0.76 | 39.10 |



PiFi Antenna, Apple Passive graph, Antenna efficiency and gain

OTA
free
field



| PCB Antenna OTA free field | |
|----------------------------|---------------|
| Channel | TRP/TIS(dBm) |
| BlueTh-0000-TX | 6.28 |
| BlueTh-0039-TX | 7.44 |
| BlueTh-0078-TX | 7.46 |
| BlueTh-0000-RX | -93.49 |
| BlueTh-0039-RX | -92.53 |
| BlueTh-0078-RX | -92.22 |

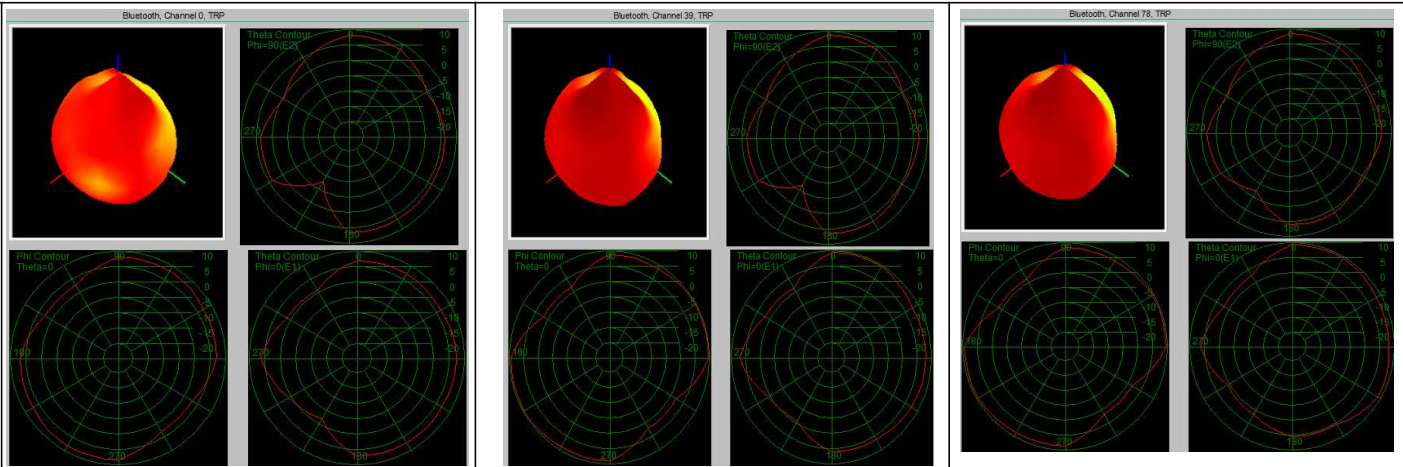


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PiFi Antenna, Active Apple Field graph, Antenna efficiency and gain

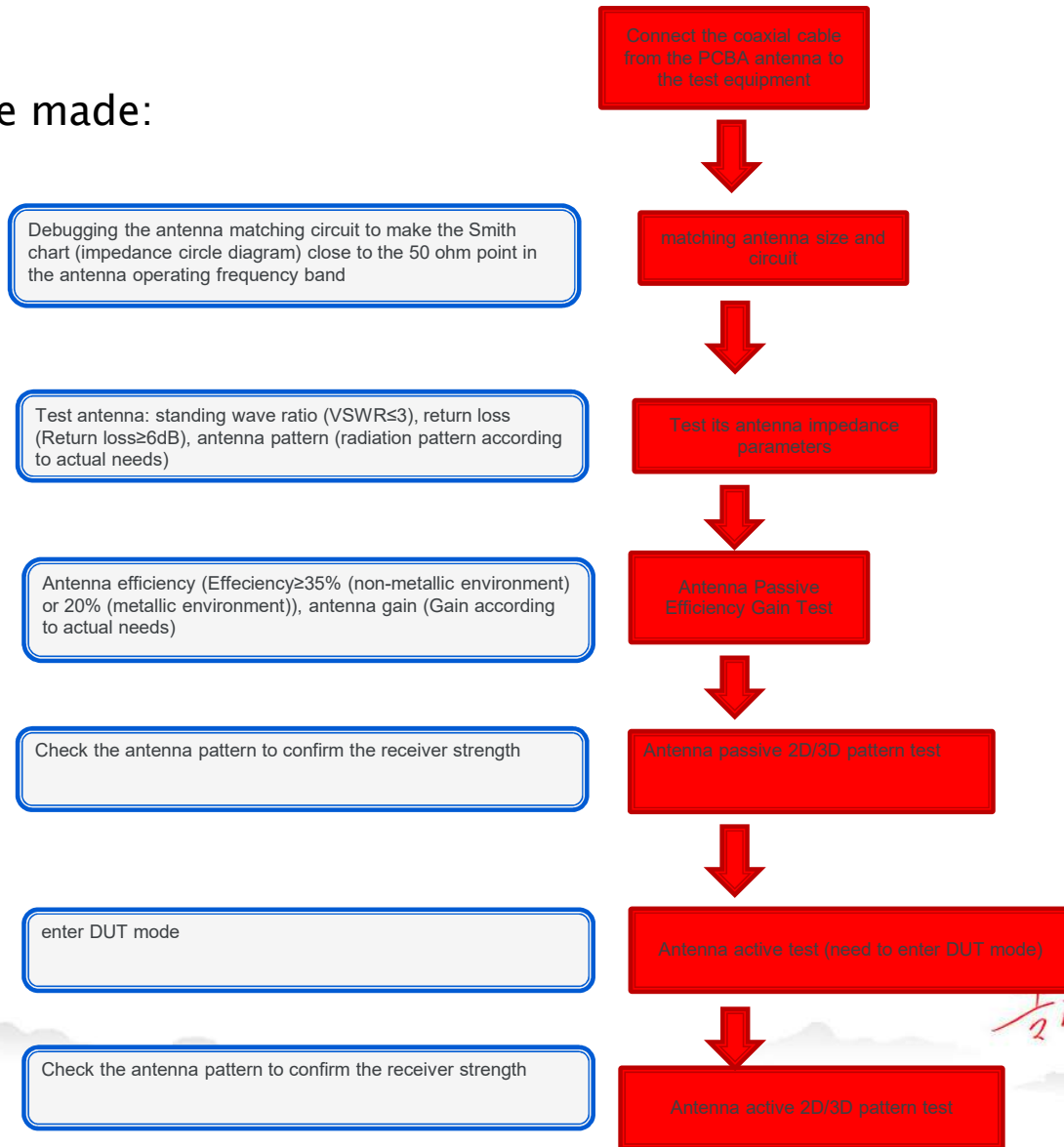
OTA
free
field



| PCB Antenna OTA headform | |
|--------------------------|---------------|
| Channel | TRP/TIS(dBm) |
| BlueTh-0000-TX | 4.62 |
| BlueTh-0039-TX | 5.28 |
| BlueTh-0078-TX | 5.26 |
| BlueTh-0000-RX | -91.30 |
| BlueTh-0039-RX | -90.84 |
| BlueTh-0078-RX | -90.65 |

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Description of how measurements are made:



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