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深圳沃莱特电子有限公司

# SARA天线测试报告

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日 期：20250927

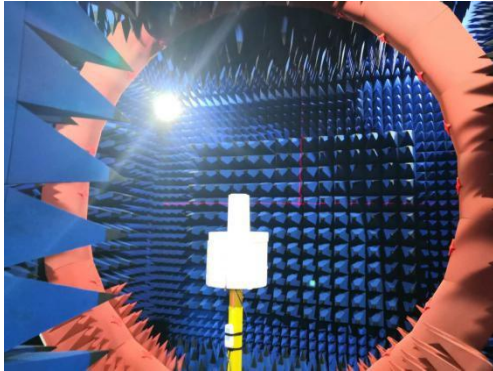
版本号：V1

WLT RD center

- ▶ Summary 报告版本概要
- ▶ Test photo 测试图片
- ▶ Project information 项目信息
- ▶ Test Equipment 测试设备
- ▶ Matching circuit 匹配电路
- ▶ Passive S11 无源S11测试
- ▶ Passive efficiency and gain  
无源效率、增益
- ▶ Radiation pattern  
辐射方向图

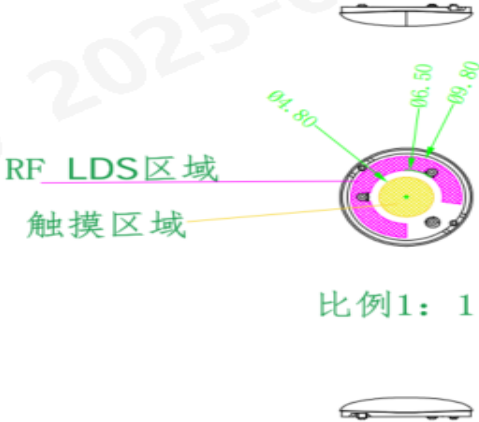
| 版本 | 日期       | 内容概况   |
|----|----------|--------|
| V1 | 20250927 | 天线测试报告 |
| V2 |          |        |
| V3 |          |        |
| V4 |          |        |
| V5 |          |        |
| V6 |          |        |
| V7 |          |        |

|       |              |
|-------|--------------|
| 客户    | 挚听           |
| 项目名称  | SARA         |
| 天线类别  | BT           |
| 主天线频段 | 2400-2480MHz |
| 机器类别  | 耳机           |

| 设备<br>(Equipment)                  | 型号<br>(Type)       | 照片 (photo)                                                                            |
|------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| 微波暗室<br>Microwave anechoic chamber | FTMP-24D (4*4*3.5) |    |
| 综合测试仪<br>(Comprehensive tester)    | R&S CMW500         |    |
| 网络分析仪<br>(Network Analyzer)        | KEYSIGHT E5063A    |  |

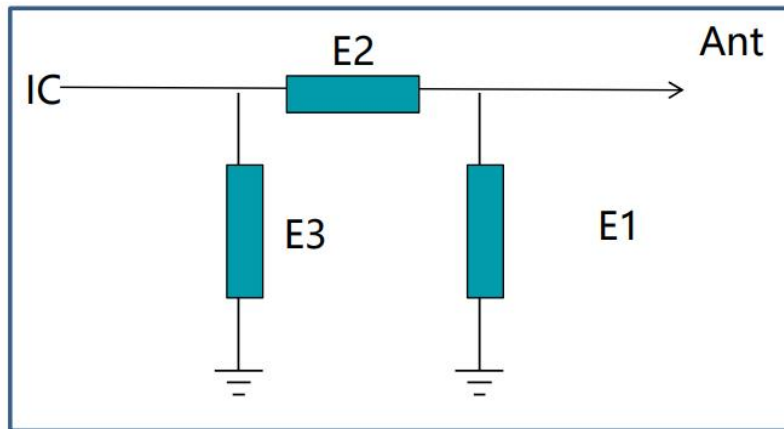


| 标记 | 变更日期       | 变更内容 |
|----|------------|------|
| V0 | 2025/09/12 | 初版   |
| V1 |            |      |
| V2 |            |      |



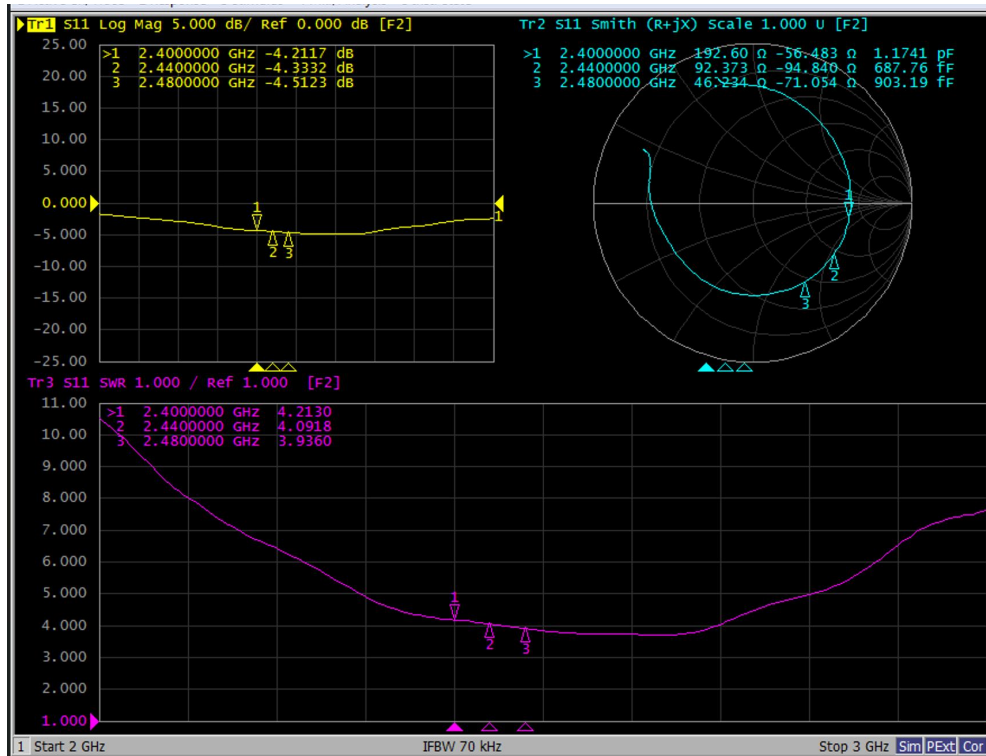
| TOLERANCES | A     | B     | C    | D    |
|------------|-------|-------|------|------|
| ~16        | ±0.05 | ±0.1  | ±0.2 | ±0.4 |
| 16~63      | ±0.1  | ±0.2  | ±0.4 | ±0.6 |
| 63~150     | ±0.15 | ±0.25 | ±0.5 | ±0.8 |
| 150~250    | ±0.2  | ±0.3  | ±0.6 | ±1   |
| 250~500    | ±0.4  | ±0.6  | ±0.8 | ±1.5 |

|    |              |            |       |             |             |        |
|----|--------------|------------|-------|-------------|-------------|--------|
| 处理 |              | 比列：1:1     | 单位：mm | 深圳市智听科技有限公司 | 名称          | SARA豆式 |
| 材质 |              | 重量：        | 视角：   |             | 编号          |        |
| 设计 | E11 y. Zheng | 2025/09/26 | 型号    | 装饰          | 表公差为重点管控尺寸  | 图号     |
| 审核 |              |            | 批准    |             | 未标公差尺寸按A级管控 | 版号     |



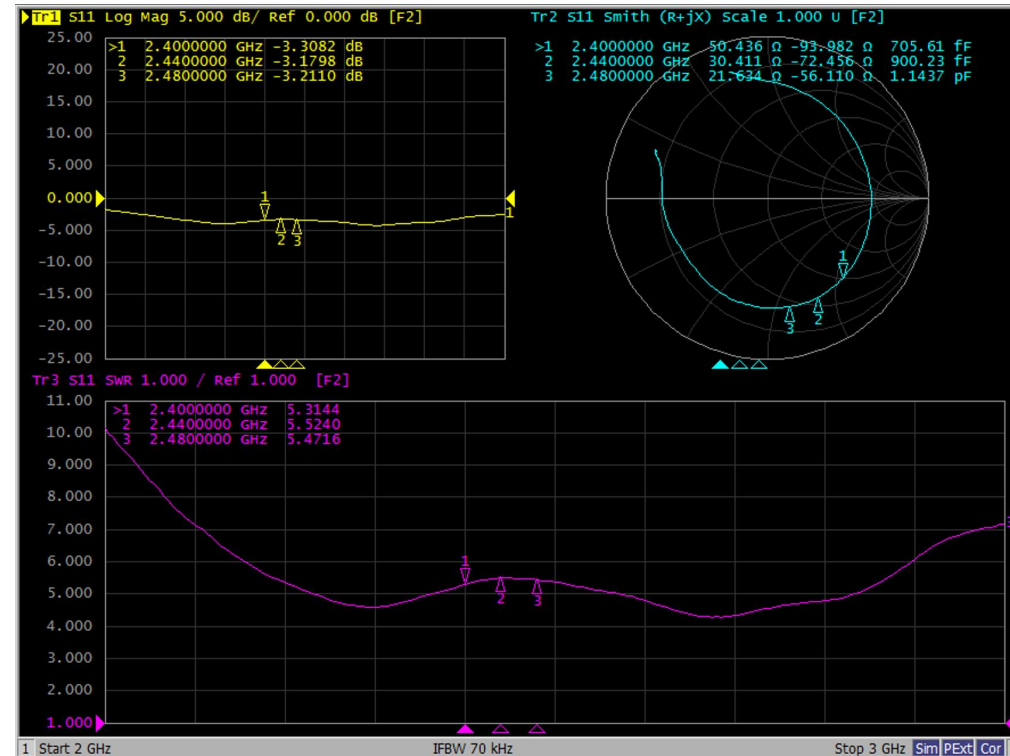
| BT       |     |
|----------|-----|
| Element  |     |
| E1(0402) | 原匹配 |
| E2(0402) | 原匹配 |
| E3(0402) | 原匹配 |

L耳



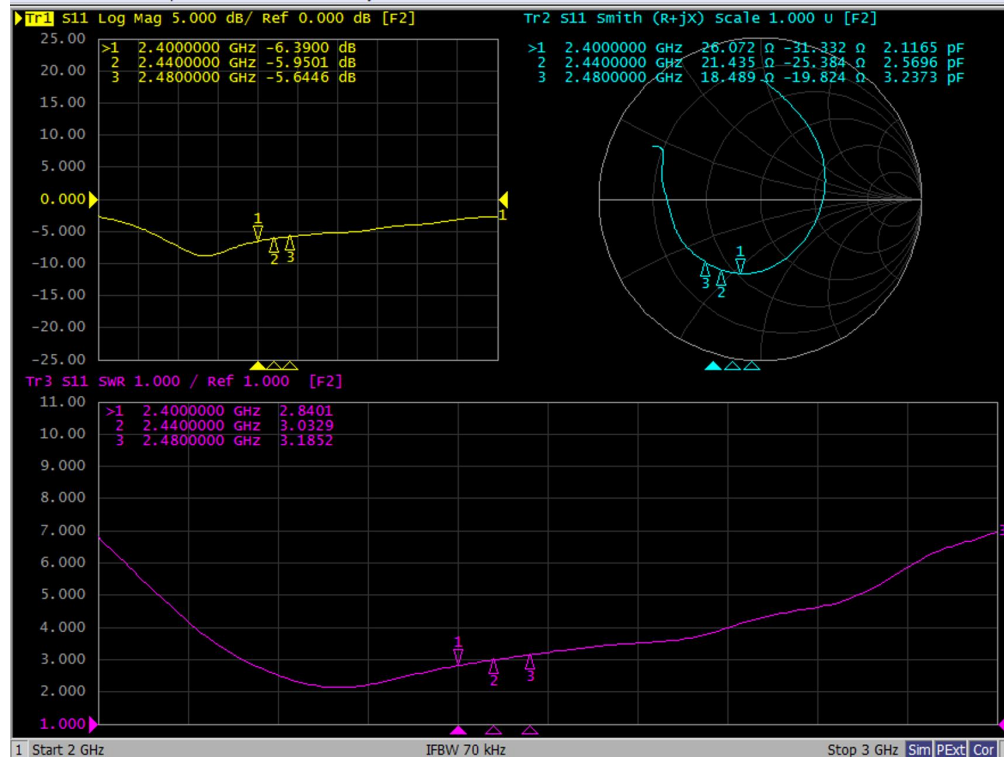
|            |       |       |       |
|------------|-------|-------|-------|
| Freq (MHz) | 2400  | 2440  | 2480  |
| SWR        | 4.21  | 4.09  | 3.93  |
| Log Mag    | -4.21 | -4.33 | -4.51 |

R耳



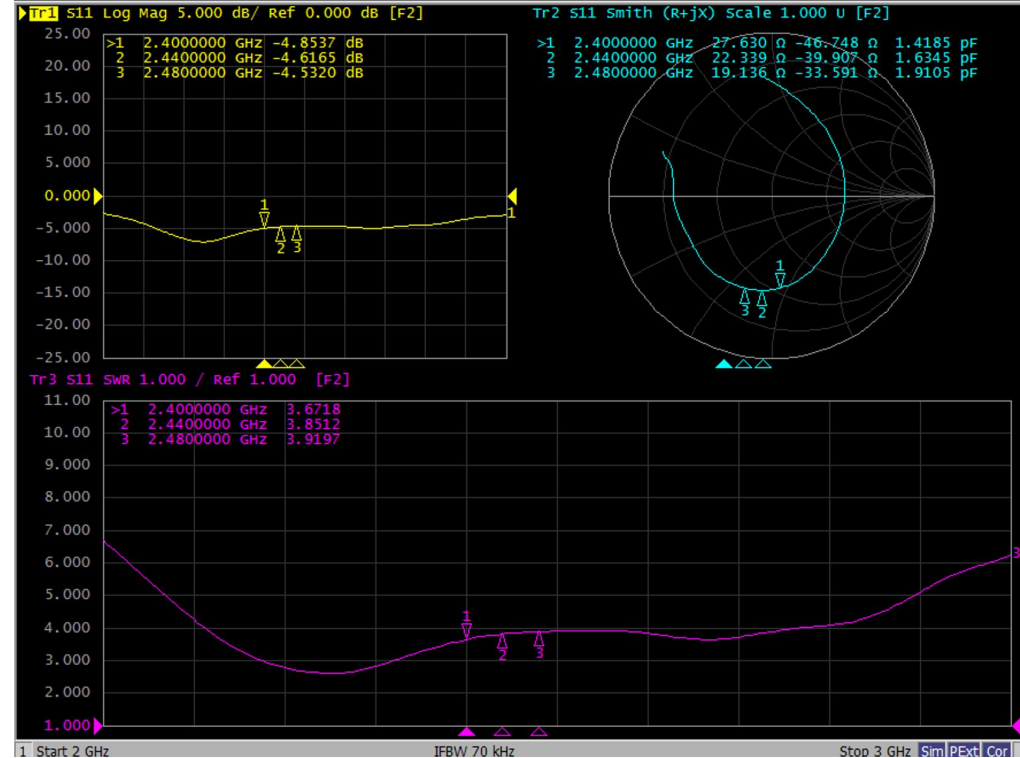
|            |      |       |       |
|------------|------|-------|-------|
| Freq (MHz) | 2400 | 2440  | 2480  |
| SWR        | 5.31 | 5.52  | 5.47  |
| Log Mag    | -3.3 | -3.17 | -3.21 |

L耳



|            |       |       |       |
|------------|-------|-------|-------|
| Freq (MHz) | 2400  | 2440  | 2480  |
| SWR        | 2.84  | 3.03  | 3.18  |
| Log Mag    | -6.39 | -5.95 | -5.64 |

R耳



|            |       |       |       |
|------------|-------|-------|-------|
| Freq (MHz) | 2400  | 2440  | 2480  |
| SWR        | 3.67  | 3.85  | 3.91  |
| Log Mag    | -4.85 | -4.61 | -4.53 |

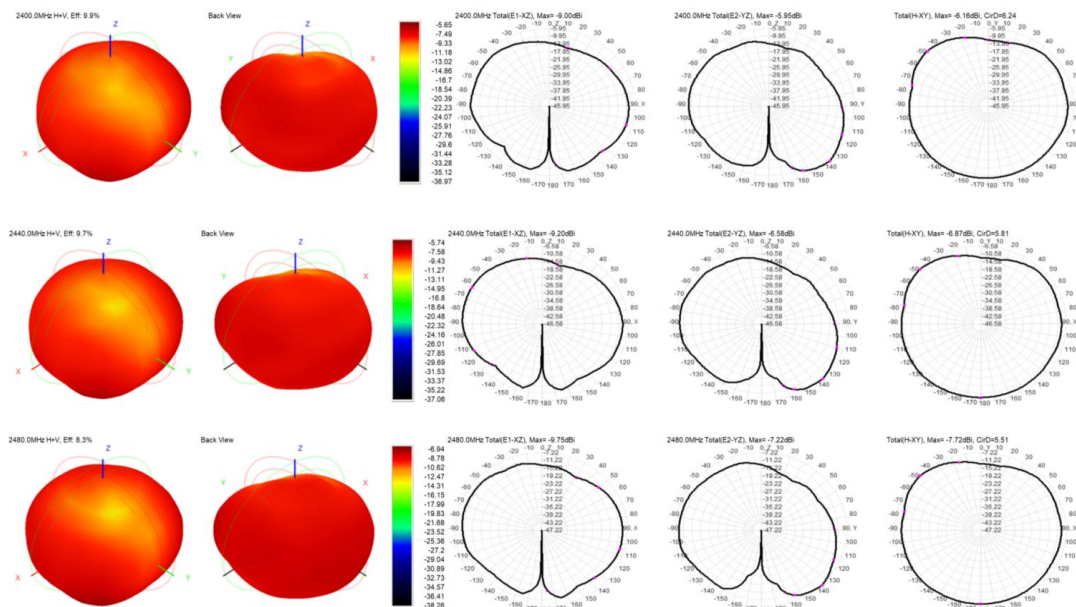
| L耳                 |               |                   |
|--------------------|---------------|-------------------|
| Frequency<br>(MHz) | Gain<br>(dBi) | Efficiency<br>(%) |
| 2400               | -5.65         | 9.90%             |
| 2410               | -5.6          | 9.90%             |
| 2420               | -5.4          | 10.10%            |
| 2430               | -5.38         | 10.30%            |
| 2440               | -5.74         | 9.70%             |
| 2450               | -5.9          | 9.60%             |
| 2460               | -6.29         | 9.20%             |
| 2470               | -6.67         | 8.80%             |
| 2480               | -6.94         | 8.40%             |
| 2490               | -7.25         | 7.90%             |
| 2500               | -7.43         | 7.60%             |

| R耳                 |               |                   |
|--------------------|---------------|-------------------|
| Frequency<br>(MHz) | Gain<br>(dBi) | Efficiency<br>(%) |
| 2400               | -5.26         | 9.30%             |
| 2410               | -5.53         | 8.80%             |
| 2420               | -5.72         | 8.50%             |
| 2430               | -5.87         | 8.40%             |
| 2440               | -6.38         | 7.70%             |
| 2450               | -6.76         | 7.30%             |
| 2460               | -7.11         | 6.90%             |
| 2470               | -7.36         | 6.50%             |
| 2480               | -7.73         | 6.10%             |
| 2490               | -8.07         | 5.70%             |
| 2500               | -8.52         | 5.40%             |

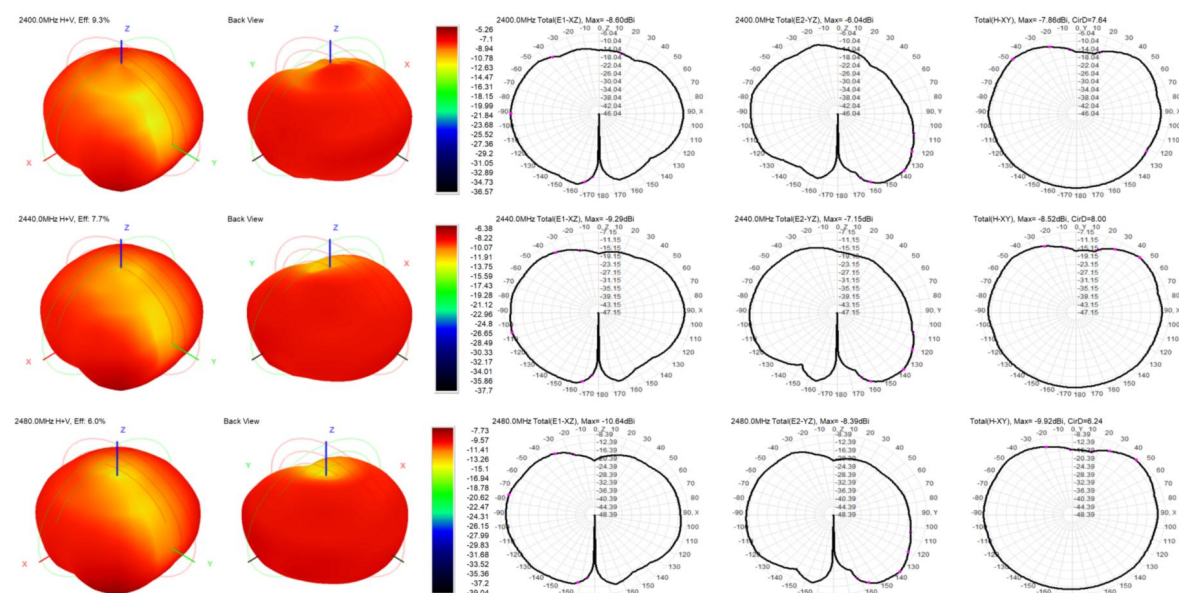
| L耳                 |               |                   |
|--------------------|---------------|-------------------|
| Frequency<br>(MHz) | Gain<br>(dBi) | Efficiency<br>(%) |
| 2400               | -10.46        | 3.00%             |
| 2410               | -10.56        | 2.90%             |
| 2420               | -10.59        | 2.80%             |
| 2430               | -10.57        | 2.70%             |
| 2440               | -10.67        | 2.50%             |
| 2450               | -10.99        | 2.40%             |
| 2460               | -11.23        | 2.30%             |
| 2470               | -11.6         | 2.20%             |
| 2480               | -11.91        | 2.10%             |
| 2490               | -12.05        | 2.00%             |
| 2500               | -12.12        | 1.90%             |

| R耳                 |               |                   |
|--------------------|---------------|-------------------|
| Frequency<br>(MHz) | Gain<br>(dBi) | Efficiency<br>(%) |
| 2400               | -10.53        | 2.30%             |
| 2410               | -10.64        | 2.20%             |
| 2420               | -10.74        | 2.10%             |
| 2430               | -10.69        | 2.00%             |
| 2440               | -10.92        | 1.80%             |
| 2450               | -11.42        | 1.70%             |
| 2460               | -11.66        | 1.60%             |
| 2470               | -11.97        | 1.50%             |
| 2480               | -12.29        | 1.50%             |
| 2490               | -12.43        | 1.40%             |
| 2500               | -12.68        | 1.30%             |

L耳

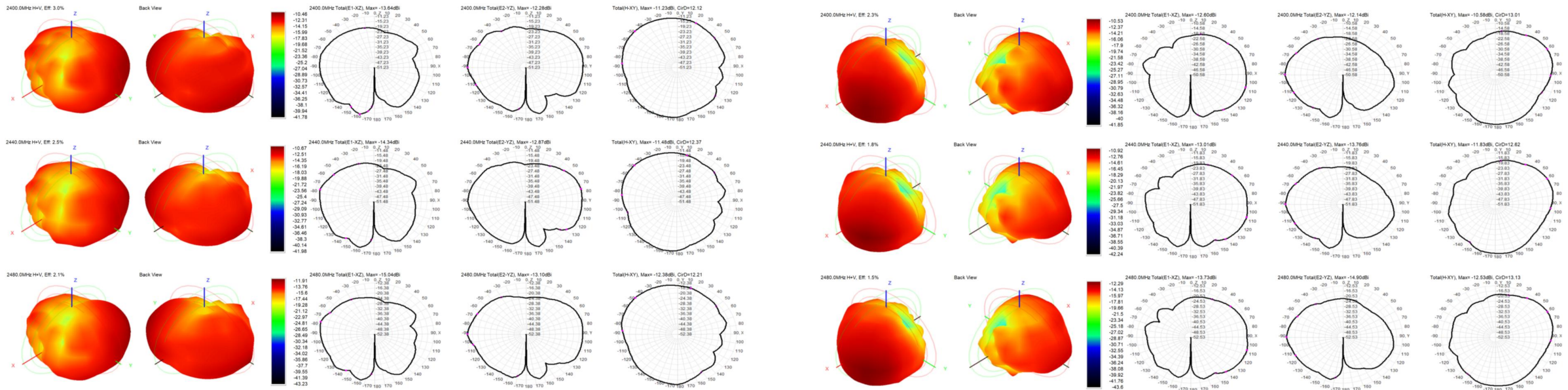


R耳



L耳

R耳



自由



头模



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深圳沃莱特电子有限公司

**THANK YOU**

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未经我司许可，请勿将此报告转发给第三方，谢谢合作！