



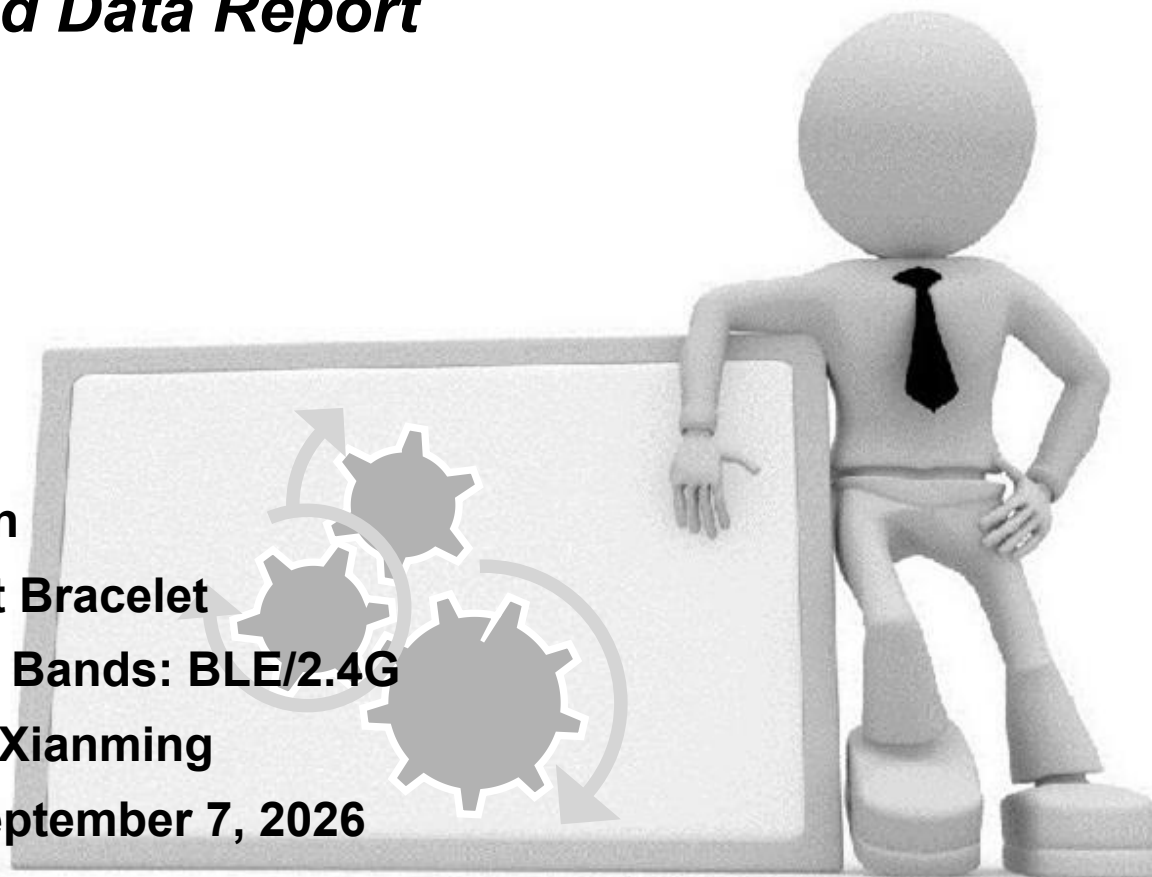
深圳市天威讯无线技术有限公司

shenzhenTian wei xun wireless technology co.,ltd.

天线设计与数据报告

Antenna Design and Data Report

- ○ Client Name: Qinglan
- ○ Project Name: Smart Bracelet
- ○ Required Frequency Bands: BLE/2.4G
- ○ R&D Engineer: Liao Xianming
- ○ Completion Date: September 7, 2026



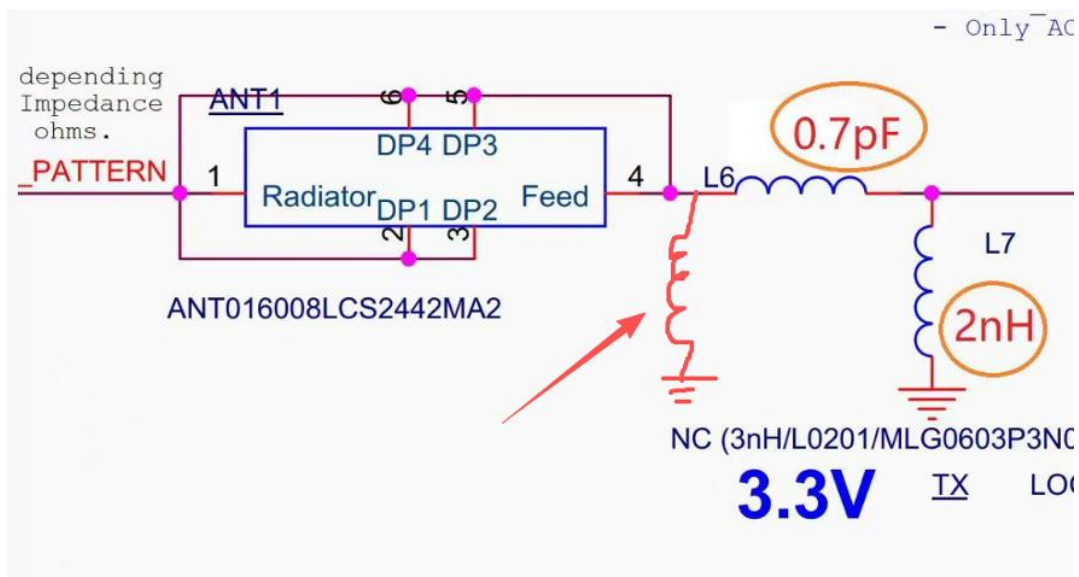
product image



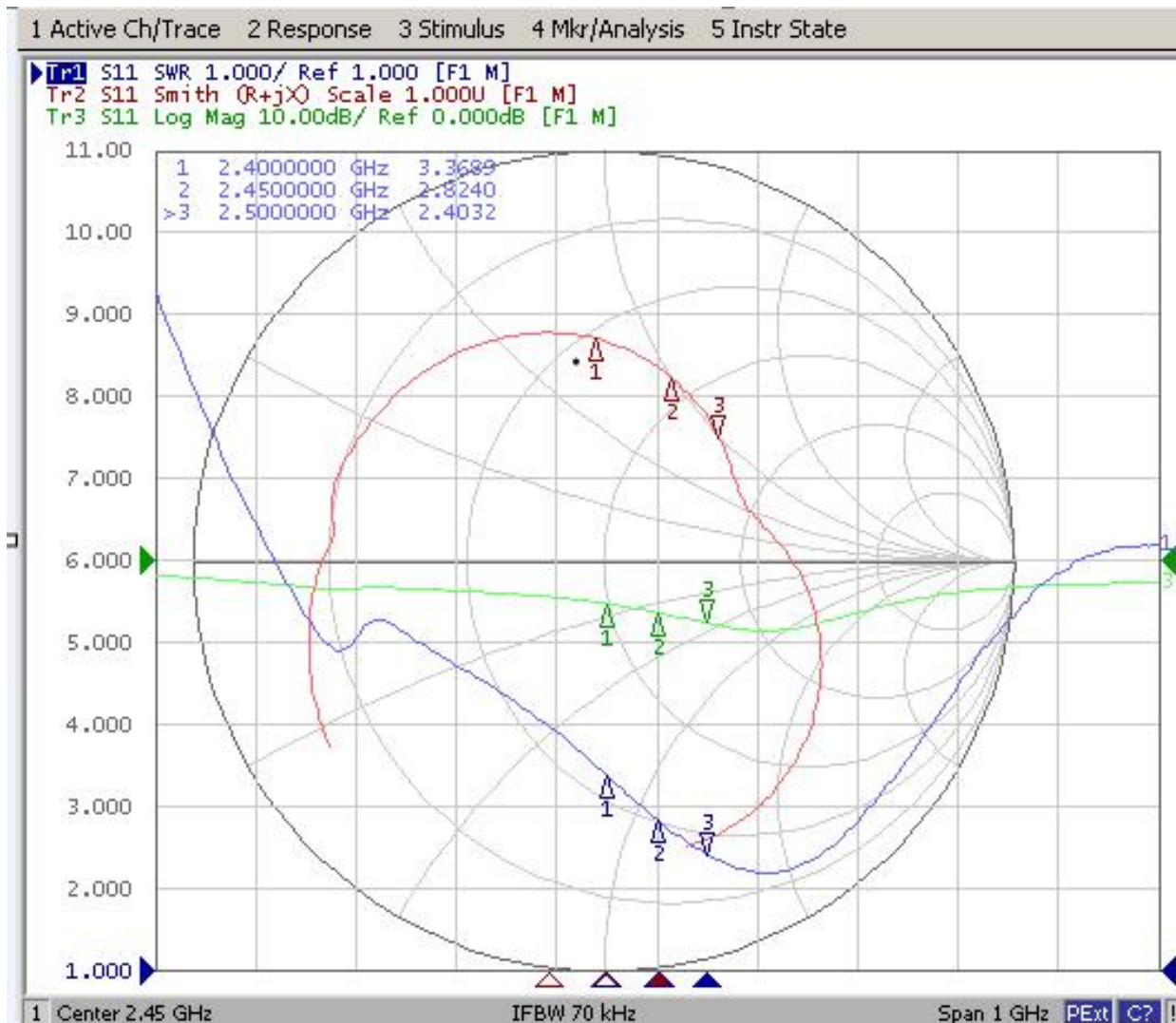
Antenna circuit matching description



Element	
L7(0201)	2.0NH
L6(0201)	0.7PF
E3(0201)	constant
E4(0201)	constant



Antenna passive test data



Gain and efficiency data



Test Point ID	Freq. (MHz)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
<u>1</u>	2400.0	-8.64	6.35	3.2%
<u>2</u>	2410.0	-9.44	6.38	2.6%
<u>3</u>	2420.0	-9.37	6.13	2.8%
<u>4</u>	2430.0	-10.17	6.05	2.4%
<u>5</u>	2440.0	-10.47	5.84	2.3%
<u>6</u>	2450.0	-10.72	5.91	2.2%
<u>7</u>	2460.0	-11.46	5.49	2.0%
<u>8</u>	2470.0	-11.87	5.06	2.0%
<u>9</u>	2480.0	-12.15	4.65	2.1%
<u>10</u>	2490.0	-12.15	5.13	1.9%
<u>11</u>	2500.0	-11.62	5.37	2.0%

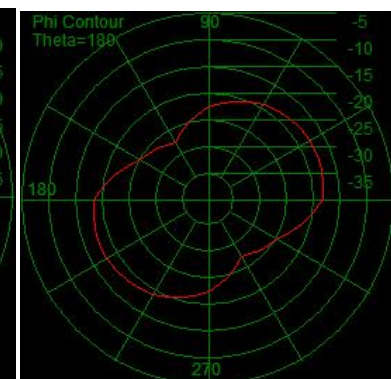
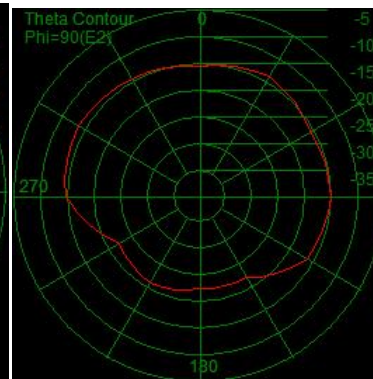
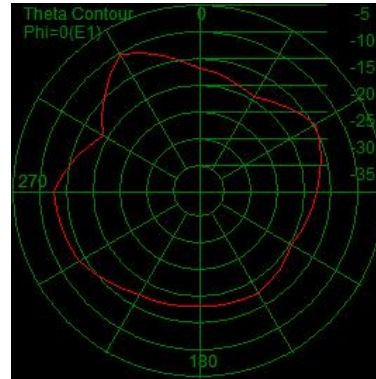
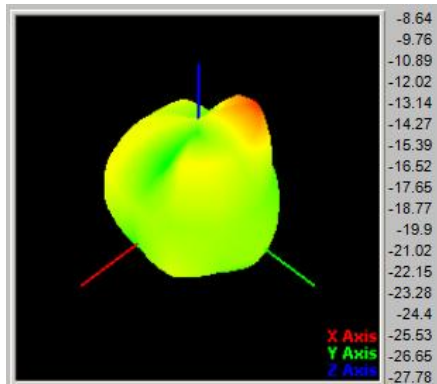
Antenna installation location



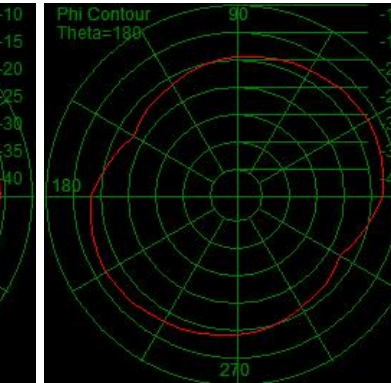
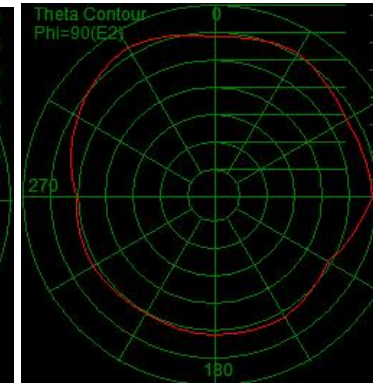
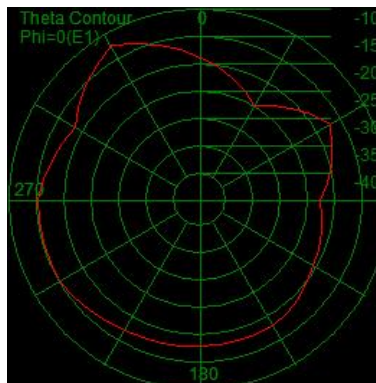
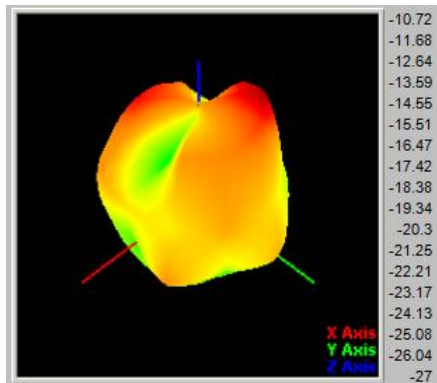
antenna pattern:



2400MHZ:

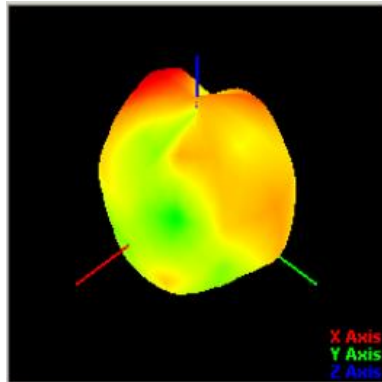


2450MHZ:

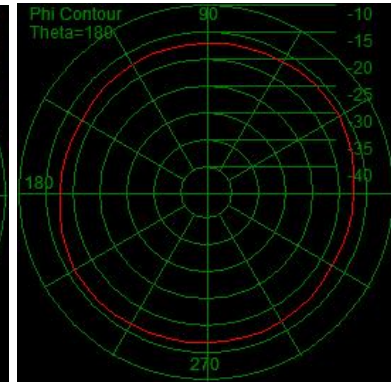
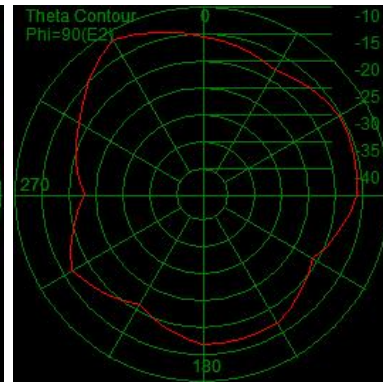
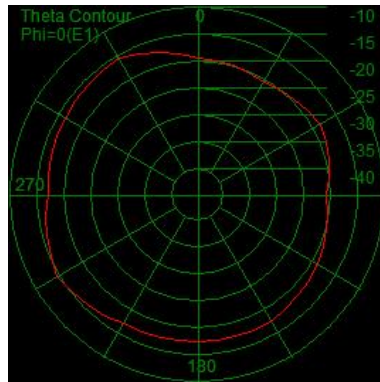


antenna pattern:

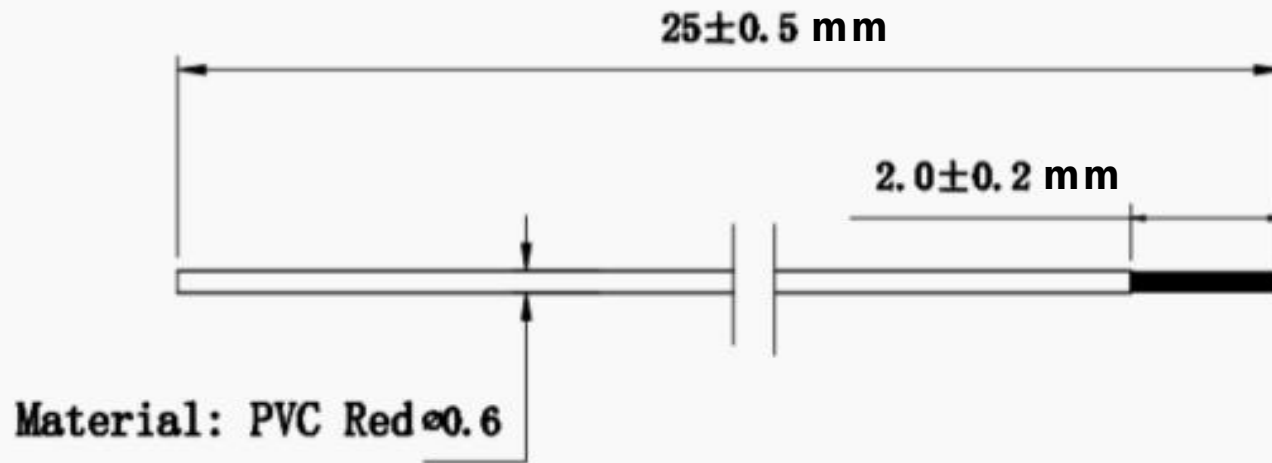
2500MHZ:



-11.62
-12.38
-13.13
-13.89
-14.64
-15.39
-16.15
-16.9
-17.66
-18.41
-19.17
-19.92
-20.68
-21.43
-22.19
-22.94
-23.7
-24.45



Antenna Specifications





Thank you for your patience in reading this.



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