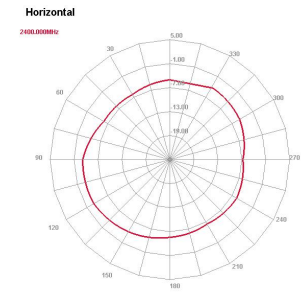
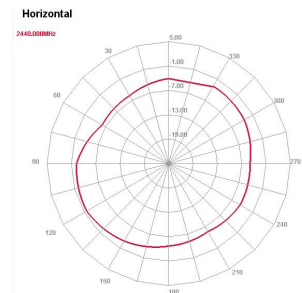
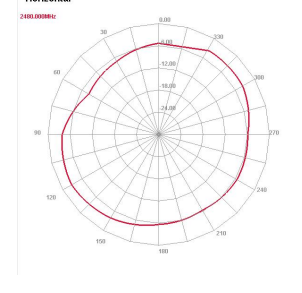


3.3. Return Loss

BT VSWR+ Return

	Resonant Point Range(MHz)	Frequency point(MHz)/Maximum Echo Loss(dB)		
	2400-2500		2400	2500
		VSWR	2.24	2.48
		Return loss	-8.33	-7.31

3.4. Antenna Gain

Channel	0	39	78
Gain	0.26dBi	1.15Bi	-0.14dBi
Gain diagram			

Passive Test For D4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	31	-5.09	0.26	-1.89	13.055	17.945	0.26	-18.69	46.5	45.85
2410	35.8	-4.46	0.85	-1.3	14.968	20.835	0.85	-18.76	46.61	46.05
2420	36.79	-4.34	0.98	-1.17	15.3	21.487	0.98	-17.98	46.59	46.17
2430	37.51	-4.26	1.13	-1.02	15.621	21.888	1.13	-16.78	46.77	46.14
2440	36.73	-4.35	1.15	-1	15.347	21.382	1.15	-15.5	46.79	45.97
2450	36.26	-4.41	1.09	-1.06	15.207	21.054	1.09	-14.76	46.58	45.82
2460	36.27	-4.4	1.18	-0.97	15.117	21.153	1.18	-14.91	46.74	45.97
2470	31.56	-5.01	0.52	-1.63	13.11	18.451	0.52	-15.66	46.54	45.98
2480	29.09	-5.36	-0.14	-2.29	12.061	17.028	-0.14	-16.01	46.48	46.46
2490	29.61	-5.29	-0.22	-2.37	12.3	17.311	-0.22	-15.65	46.53	46.76
2500	30.89	-5.1	0.01	-2.14	12.738	18.15	0.01	-15.56	46.77	46.39

4. Appearance structure

4.1. Antenna Material

5. Notes

(Electrical Performance Test Report)

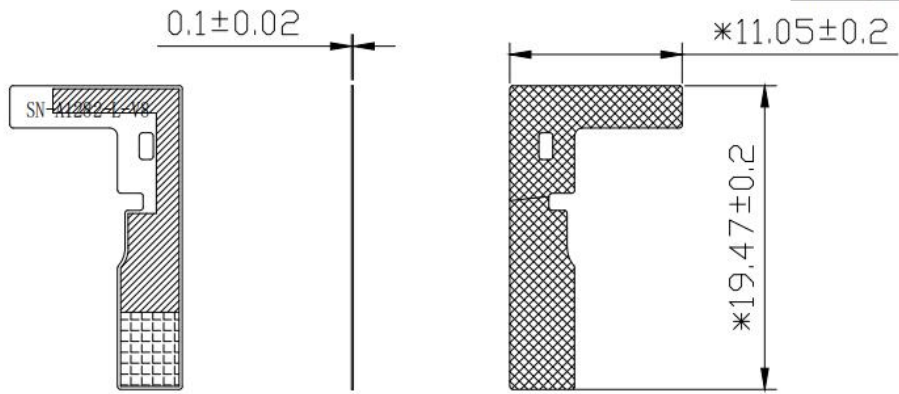
In the electrical performance test report, the 3D darkroom data for manufacturers are provided.

The following table format

Appendix 1: (Mechanical drawing)

Appendix II (Performance report)

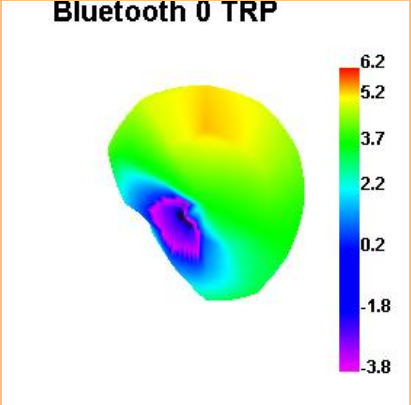
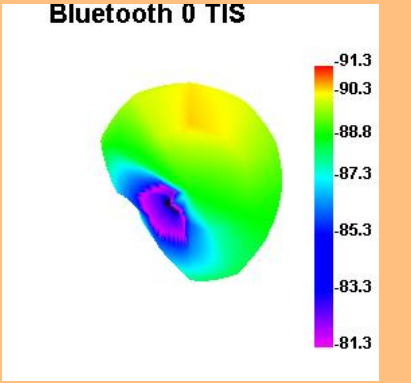
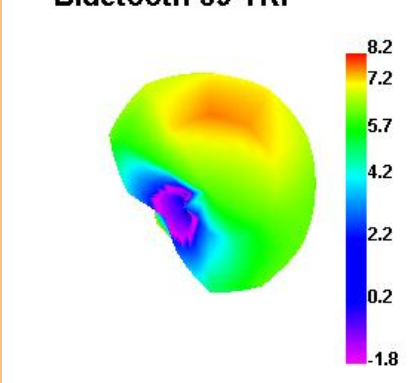
FPC Mechanical drawing(Annex I)

1	2	3	4	5	6	7	8																								
		<table border="1" style="float: right; font-size: 8px;"> <tr> <th colspan="4">The third person</th> </tr> <tr> <td>0~10</td> <td>±0.05</td> <td>○</td> <td>0.02</td> </tr> <tr> <td>10~18</td> <td>±0.10</td> <td>⊙</td> <td>0.03</td> </tr> <tr> <td>18~30</td> <td>±0.12</td> <td>⊥</td> <td>0.02</td> </tr> <tr> <td>30~40</td> <td>±0.15</td> <td>∠</td> <td>0.04</td> </tr> <tr> <td>40~</td> <td>±0.20</td> <td>Angle</td> <td>±0.5°</td> </tr> </table>						The third person				0~10	±0.05	○	0.02	10~18	±0.10	⊙	0.03	18~30	±0.12	⊥	0.02	30~40	±0.15	∠	0.04	40~	±0.20	Angle	±0.5°
The third person																															
0~10	±0.05	○	0.02																												
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40~	±0.20	Angle	±0.5°																												
																															
Notes: 1. "*" is the key dimension ; 2. Please refer to the drawing if no dimension is indicated; 3. Meet rohs2.0, reach environmental protection requirements.																															
<table border="1" style="width:100%; font-size: 8px;"> <tr> <td style="width:10%;">A</td> <td style="width:50%;">New drawing</td> <td style="width:10%;">Date</td> <td style="width:30%;">Remarks</td> </tr> <tr> <td>Rev.</td> <td>Modify the content</td> <td></td> <td></td> </tr> </table>				A	New drawing	Date	Remarks	Rev.	Modify the content			<table border="1" style="width:100%; font-size: 8px;"> <tr> <td style="width:5%;">1</td> <td style="width:20%;">BT antenna</td> <td style="width:30%;">Electrolytic copper Half to half substrate</td> <td style="width:10%;">Black</td> <td style="width:35%;">Gold Finger Plating Double-sided tape 3M9471</td> </tr> <tr> <td>No.</td> <td>Part name</td> <td>Material</td> <td>Color</td> <td>Thickness</td> </tr> </table>				1	BT antenna	Electrolytic copper Half to half substrate	Black	Gold Finger Plating Double-sided tape 3M9471	No.	Part name	Material	Color	Thickness						
A	New drawing	Date	Remarks																												
Rev.	Modify the content																														
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<table border="1" style="width:100%; font-size: 8px;"> <tr> <td colspan="4" style="text-align: center;">  司南微电子(深圳)有限公司 SINAWELL Electronics (Shenzhen) Co., LTD </td> </tr> <tr> <td style="width:20%;">Project name</td> <td style="width:30%;">A3873(SN1117)</td> <td style="width:20%;">Date</td> <td style="width:30%;">2023-10-19</td> </tr> <tr> <td>Product name</td> <td>BT antenna</td> <td>ME</td> <td></td> </tr> <tr> <td>Material no.</td> <td>SN1117-BT-L</td> <td>RF</td> <td></td> </tr> <tr> <td>Material</td> <td></td> <td>Project</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Company</td> <td>mm Scale 1:1 Rev. A</td> </tr> </table>								 司南微电子(深圳)有限公司 SINAWELL Electronics (Shenzhen) Co., LTD				Project name	A3873(SN1117)	Date	2023-10-19	Product name	BT antenna	ME		Material no.	SN1117-BT-L	RF		Material		Project				Company	mm Scale 1:1 Rev. A
 司南微电子(深圳)有限公司 SINAWELL Electronics (Shenzhen) Co., LTD																															
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Material		Project																													
		Company	mm Scale 1:1 Rev. A																												
1	2	3	4	5	6	7	8																								

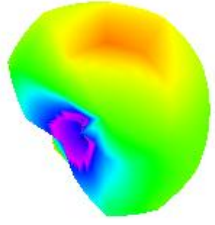
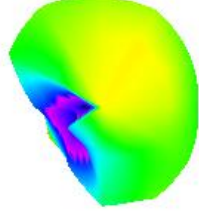
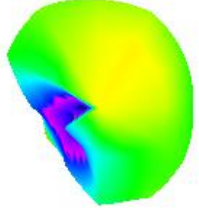
Focus on size

NO	Size(mm)	Tolerance(mm)	Notes
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2	19.47	±0.2	
3			
4			
5			
6			

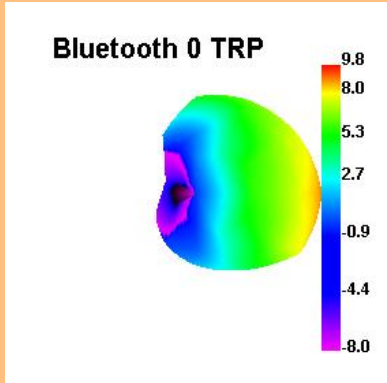
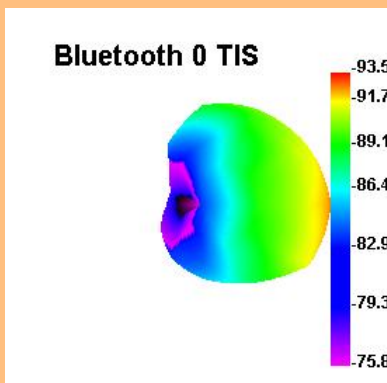
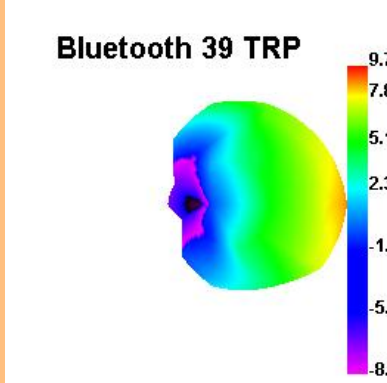
3DTest Report (FS)

BT	Channel	3DCoupling Test	Field strength map
TRP	0	3.1	Bluetooth 0 TRP 
TIS	0	-88.15	Bluetooth 0 TIS 
TRP	39	5.49	Bluetooth 39 TRP 

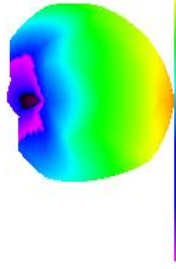
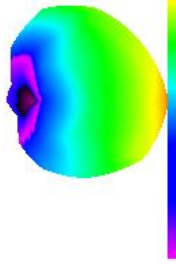
Confirmation of Sample
样品承认书

TIS	39	-89.86	Bluetooth 39 TIS  Color scale: -92.5, -91.5, -90.0, -88.5, -86.5, -84.5, -82.5
TRP	78	6.33	Bluetooth 78 TRP  Color scale: 9.3, 8.3, 6.8, 5.3, 3.3, 1.3, -0.7
TIS	78	-90.62	Bluetooth 78 TIS  Color scale: -93.6, -92.6, -91.1, -89.6, -87.6, -85.6, -83.6

3DTest Report (BH)

BT	Channel	3DCoupling Test	Field strength map
TRP	0	3.64	 Bluetooth 0 TRP
TIS	0	-86.86	 Bluetooth 0 TIS
TRP	39	3.57	 Bluetooth 39 TRP

Confirmation of Sample
样品承认书

TIS	39	-87.1	Bluetooth 39 TIS 
TRP	78	4.23	Bluetooth 78 TRP 
TIS	78	-87.82	Bluetooth 78 TIS 