

Testing Report

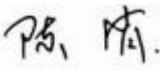
Customer Name: SHENZHEN SHIXINZHONGXIN TECHNOLOGY.CO.,LTD

Product Name: BT Antenna

Sample Model: F-6988

Reference Standard: *GB/T9410-2008; ANSI/IEEE Std 149-1979*

Issue Date: 2018.03. 10

Engineer:		Date:2018.03.10
Auditor:		Date:2018.03.10
Approver:		Date:2018.03.10

1. General Information

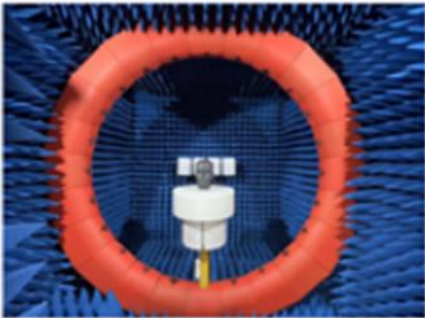
1.1 General Information of testing institutions

Name	Shenzhen Hetuo Technology Co.,Ltd.
Address	Room 1202B, Building C6, Hengfeng Industrial City, Xixiang, Baoan District, Shenzhen
Tel	18665849001
E-mail	18665849001@163.com
Equipment	Agilent 5071C

1.2 Testing principle

Multi-probe OTA Measurement System

OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



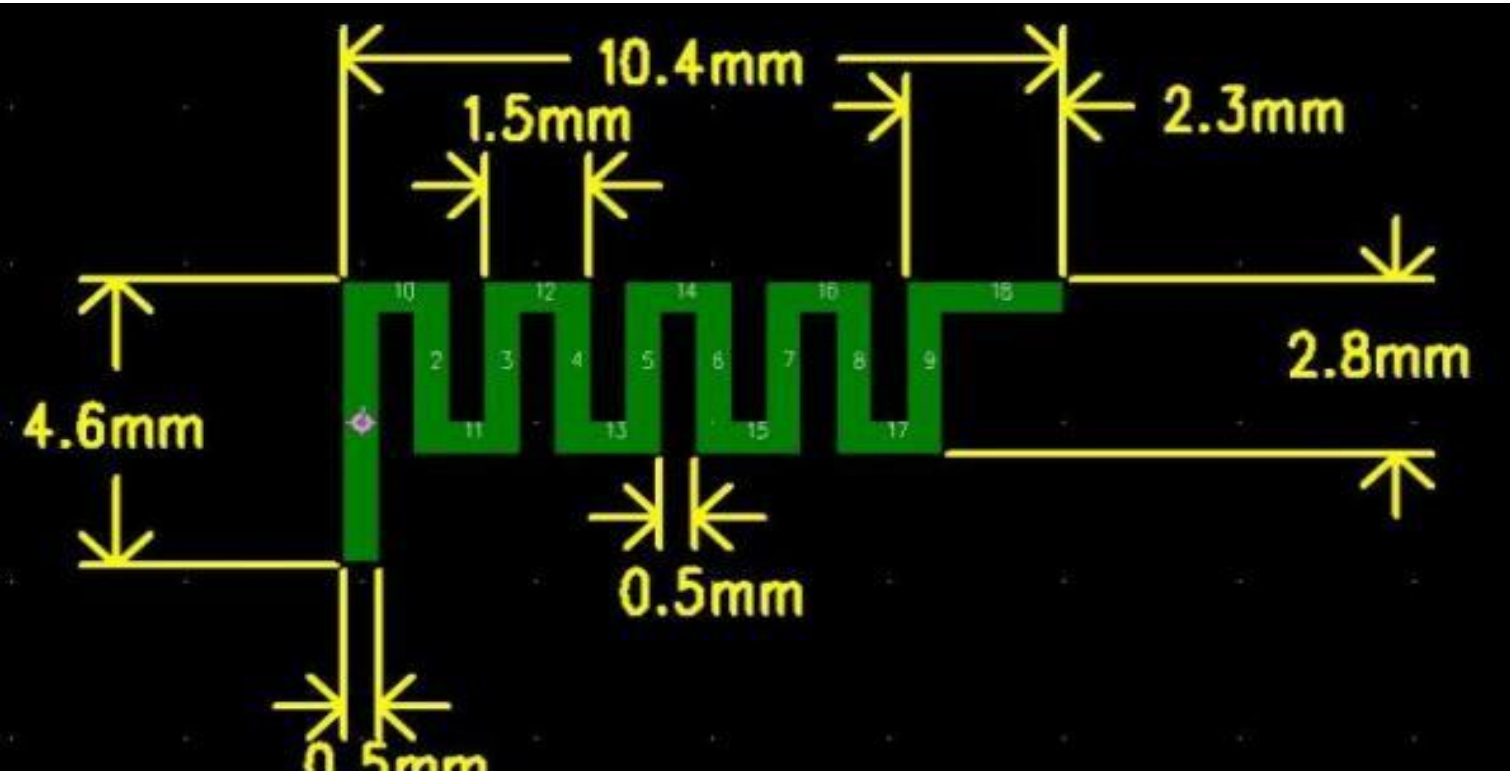
1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
24 probe microwave chamber	4*3*3	NA	FEITU	2018.02.29	2018.05.31
Network Analyzer	5071C	NA	Agilent	2018.02.29	2018.05.31

1.4 Test environment

Temperature	24 C± 1.5 C
Humidity	45%RH
Pressure	101kPa

1.5
Antenna Photo & Length(mm)



2. Sample Information

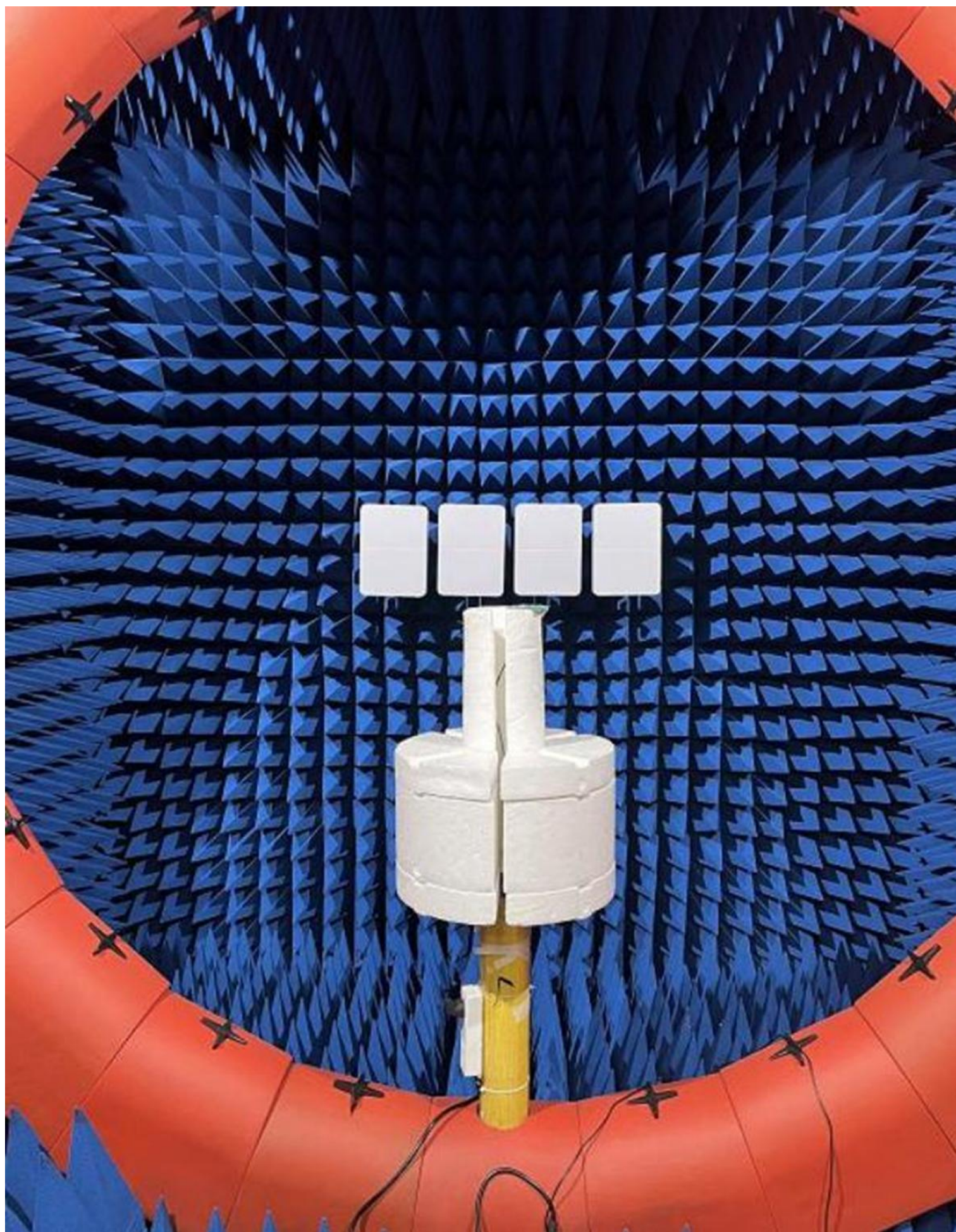
2.1 Client information

Name	SHENZHENSHIXINZHONGXIN TECHNOLOGY.CO.,LTD
Address	A1 , Shajing Donghuan Industrial Zone , Bao 'an District , Shenzhen
Contacts	Ma Chao
Tel	18218809918
E-mail	machao@c-chip.com.cn

2.2 Description of EUT(S)

Product Name	BT Antenna
Sample Model	F-6988
Antenna Size	4.6*10.4mm
Antenna Type	PCB antenna
Serial No.	/
Test Item	Antenna Gain,Radiation pattern
Frequency Range	2400-2500MHz
Received Date	2018.03.08
Test Date	2018.03. 10
Remark	The length of the RF cable is 50mm

The test photos



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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-6.12	-6.19	-6.13	-6.21	-6.11	-5.93	-5.80	-5.59	-5.40	-5.03	-4.75
Gain (dBi)	-1.80	-2.22	-1.62	-1.87	-2.01	-1.77	-1.56	-1.48	-1.11	-0.73	-0.25
Efficiency (%)	24.45	24.07	24.35	23.94	24.49	25.55	26.30	27.58	28.81	31.38	33.46
Directivity (dB)	4.32	3.96	4.52	4.34	4.10	4.15	4.24	4.11	4.29	4.30	4.50
Peak Gain Position (Theta)	126.00	124.00	124.00	124.00	123.00	119.00	123.00	122.00	126.00	124.00	31.00
Peak Gain Position (Phi)	80.00	82.00	80.00	83.00	79.00	76.00	249.00	243.00	78.00	240.00	252.00
Efficiency ThetaPol (%)	6.59	6.62	6.65	6.60	6.86	7.18	7.29	7.55	7.55	8.15	8.58
Efficiency PhiPol (%)	17.86	17.45	17.71	17.33	17.63	18.36	19.01	20.02	21.26	23.23	24.88
Upper Hem. Efficiency (%)	13.42	13.21	13.18	12.93	12.82	12.70	12.75	12.96	13.79	15.10	16.41
Lower Hem. Efficiency (%)	11.03	10.86	11.18	11.01	11.67	12.85	13.55	14.62	15.02	16.28	17.05
T90(H)圆度	10.94	11.30	11.56	12.29	11.61	13.99	13.46	15.24	14.72	12.13	10.10
Gain 15deg (dBi)											
E1(XZ)波瓣宽度	61.00	91.00	85.00	93.00	87.00	84.00	85.00	81.00	80.00	84.00	83.00
E1(XZ)前后比	3.91	3.29	3.90	3.39	3.00	2.29	1.77	1.98	2.16	2.64	2.49
E2(YZ)波瓣宽度	37.00	35.00	34.00	35.00	219.00	208.00	160.00	160.00	199.00	57.00	84.00
E2(YZ)前后比	3.61	3.36	3.64	3.20	2.33	2.41	2.32	2.20	2.29	2.32	3.05
最大增益处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
仰角10度最差(大)轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Hc(XY)波瓣宽度	94.00	92.00	96.00	100.00	109.00	112.00	118.00	135.00	119.00	116.00	126.00
Hc(XY)前后比	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Empty											

