

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	Newland	
	CS P/N(客户机种)	N950-NA	
	PART NAME(品名)	LTE	
	FREQUENCY(频率)	620-900MHz; 1710-2700MHz。	
	ZTX NO.(物料编号)	E.03.00801	
	DATE(日期)	2022-10-28	



福州中天迅通信技术有限公司
ZHONGTIAN XUN Communication Technology Co.,Ltd.

Fuzhou Address: Building 45, Unit SC02, 2nd Floor, Jinshan Industrial Zone,
Cangshan District, Fuzhou City, Fujian Province

ANTENNA SPECIFICATION

CUS P/N : N950-NA LTE

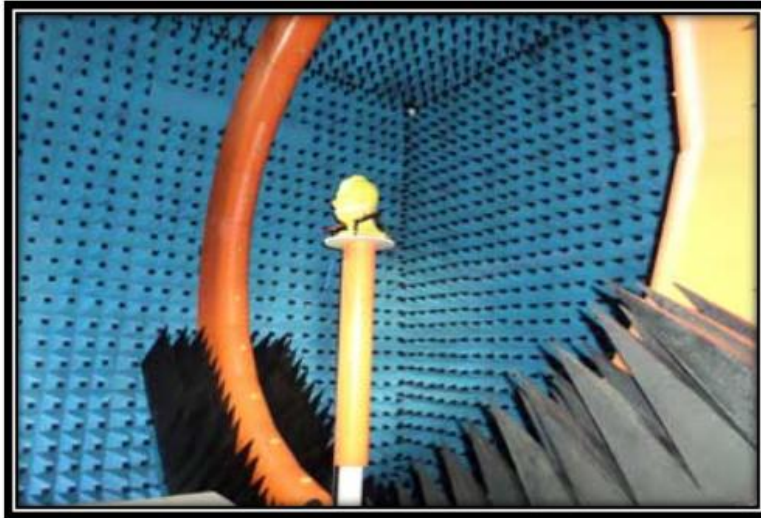
ApplicationDate:Oct,28,2022

Rev: R:A1

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Editor:

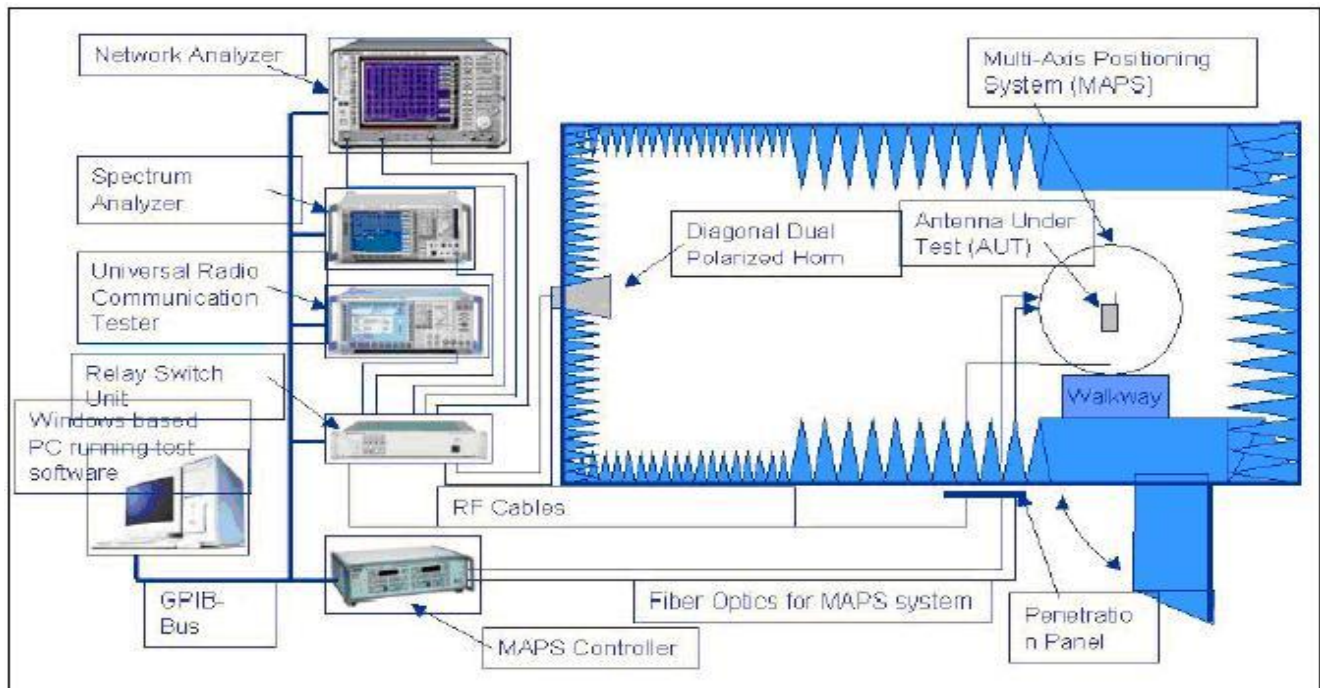
1. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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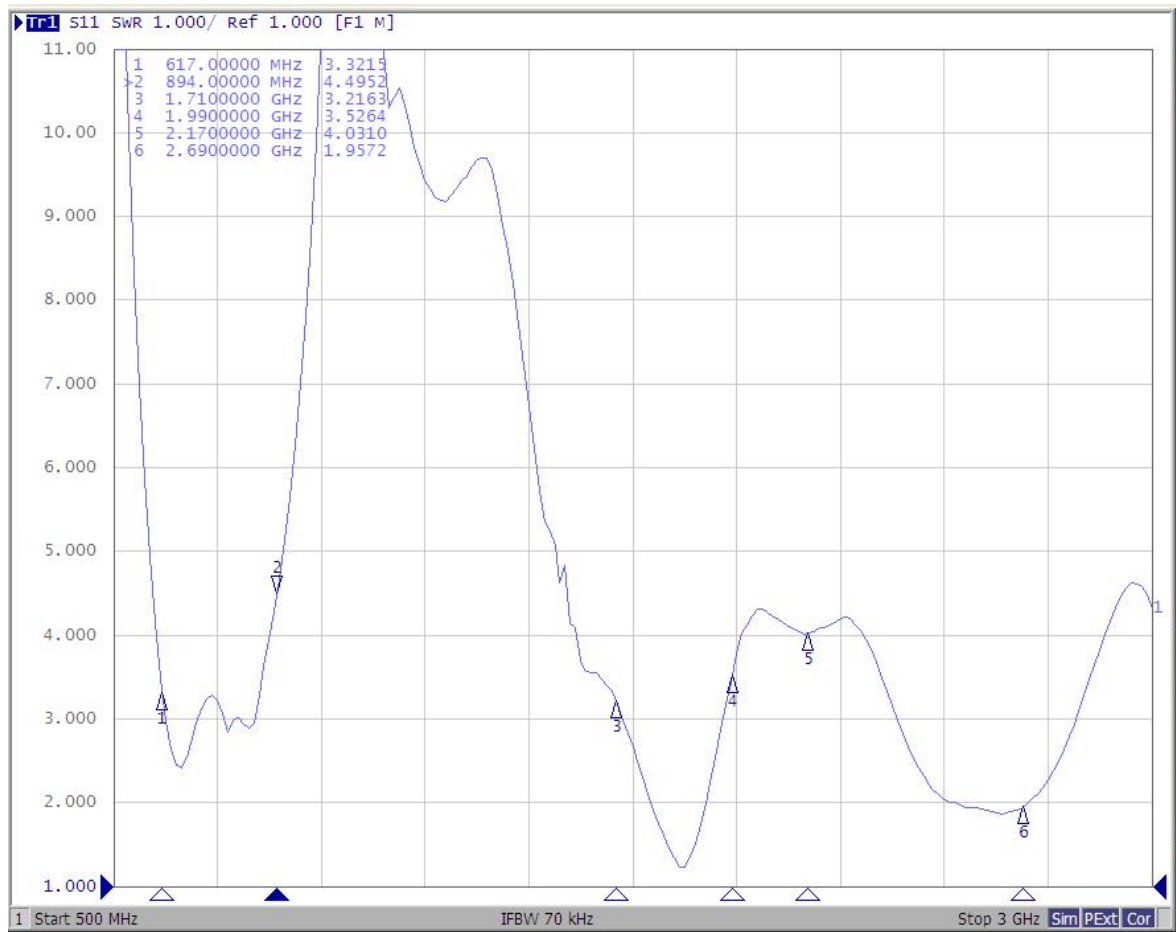
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2. Antenna test data

2-1 VSWR



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2-2 Antenna passive test

chNo	Freq (MHz)	Gain (dBi)	Efficiency_Pcent (%)
1	620	-4.9773	14.5007
2	640	-4.18865	15.028
3	660	-3.84149	20.87853
4	680	-3.2414	23.08599
5	700	-2.79528	24.88973
6	720	-2.76656	25.09394
7	740	-3.42999	21.28015
8	760	-3.86703	21.03494
9	780	-2.18938	29.3218
10	800	-2.39698	26.04764
11	820	-2.52121	27.02926
12	840	-2.70156	25.88464
13	860	-3.59354	21.19827
14	880	-4.79887	15.992
15	900	-5.04352	14.40935
16	1710	-0.99806	29.77563
17	1730	0.087775	31.63993
18	1750	0.319691	34.75537
19	1770	1.283314	38.66245



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chNo	Freq (MHz)	Gain (dBi)	Efficiency_Pcent (%)
20	1790	1.374582	42.35415
21	1810	1.767872	47.90845
22	1830	2.32547	54.96901
23	1850	2.292977	51.67089
24	1870	1.995162	50.77008
25	1890	2.440776	50.15034
26	1910	2.156108	43.75043
27	1930	2.376685	41.35716
28	1950	2.190802	38.84841
29	1970	2.146336	36.18654
30	1990	2.080722	33.93368
31	2010	1.500116	31.72133
32	2030	0.991754	29.51171
33	2050	0.812989	27.34838
34	2070	0.5988	26.37239
35	2090	0.584967	25.45413
36	2110	0.682195	24.37267
37	2130	0.622831	24.03579
38	2150	0.107201	22.55184
39	2170	-0.20786	22.51546



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chNo	Freq (MHz)	Gain (dBi)	Efficiency_Pcent (%)
40	2300	0.313031	26.28085
41	2320	0.502155	27.79123
42	2340	0.048683	27.52146
43	2360	0.110174	29.1119
44	2380	0.890125	31.32515
45	2400	1.761555	35.18172
46	2500	2.572519	39.33694
47	2520	3.03513	40.72656
48	2540	2.95284	39.37133
49	2560	2.652021	39.91151
50	2580	2.199348	38.8748
51	2600	1.79459	39.1476
52	2620	1.273758	37.96482
53	2640	0.964999	37.72681
54	2660	1.106159	38.03758
55	2680	0.92426	37.26225
56	2700	1.313007	38.41205



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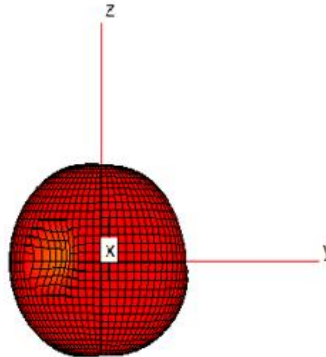
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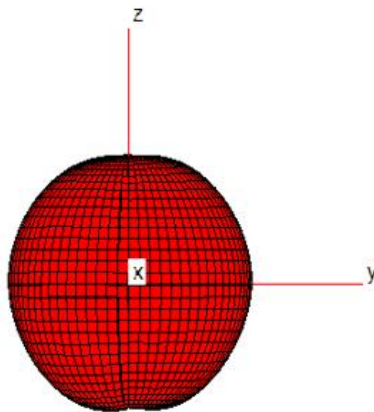
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2-3 3D radiation drawing

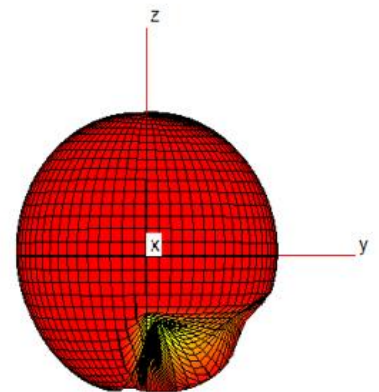
700MHz



1850MHz



2500MHz



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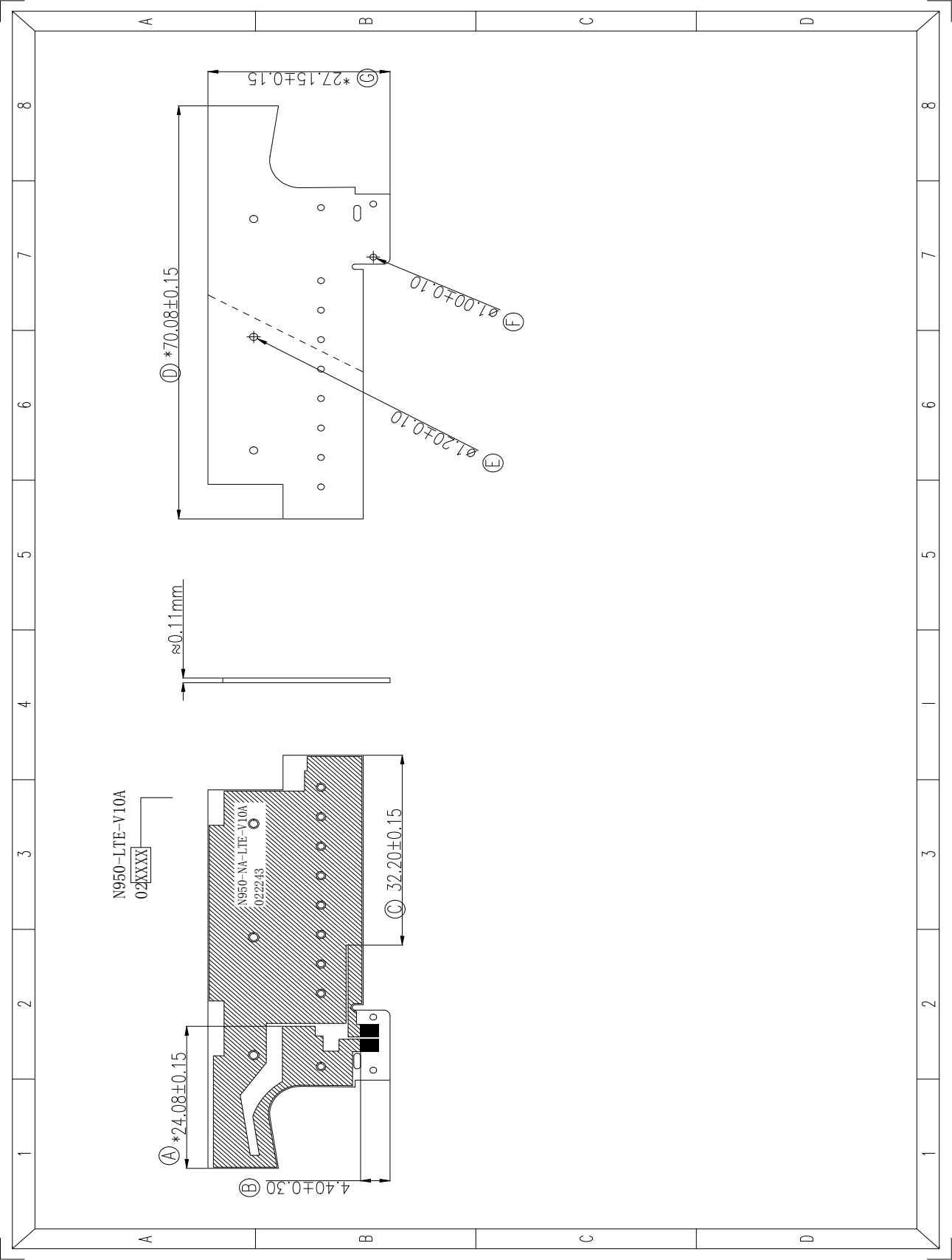
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3. Mechanical Specification



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4.Size report

5.Salt-Spray test

6.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

