



承认书

APPROVAL SHEET

客户 (Customer)	信雅达
客户型号 (Customer Model)	S60
产品 (Product)	WBG 天线 内置天线
客户料号 (Customer Part Number)	S2JD01026X1
扭飞料号 (Nuphiz Part Number)	F1-000660
签发时间 (Issued Date)	2024-11-04

客户 CUSTOMER

品质部 QUALITY DEPT	工程部 ENGINEER R&D DEPT	批准 APPROVED

扭飞 Nuphiz

制作人 WRITTEN BY	工程部 ENGINEER R&D DEPT	批准 APPROVED
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规格表

RF Cable Assembly Specification

主要技术指标		Main technical specification	
频率范围 (MHz)	1575-5825	Frequency Range (MHz)	1575-5825
特性阻抗 (Ω)	50	Impedance	50
效率	>23%	Efficiency	>23%
增益	2.49dBi	Gain	2.49dBi
物理特性		Physical Properties	
线材/颜色	----	Cable Type	----
连接头	----	Connector	----
保存温度	-20℃~+70℃	Storage Temp	-20℃~+70℃
工作温度	-20℃~+60℃	Operating Temp	-20℃~+60℃

测试设备和条件

Test Equipment & Conditions

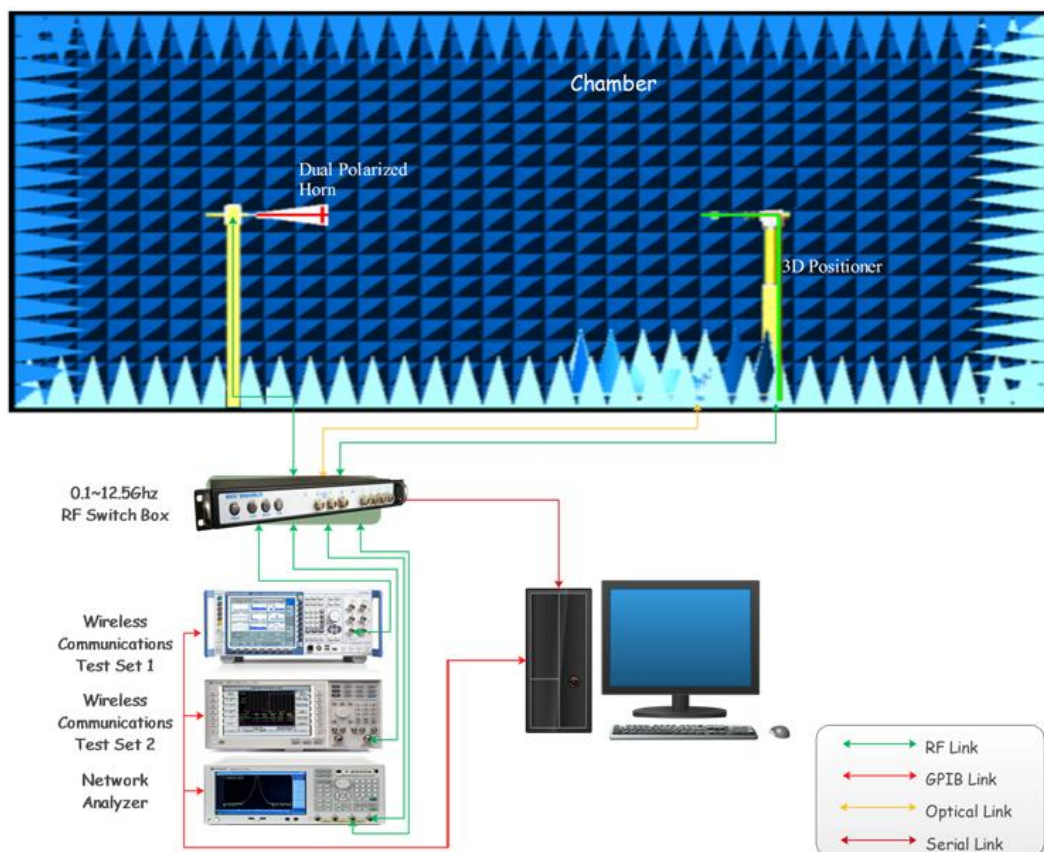
1. Network Analyzers :

Agilent 5071C

2. Communications Test Set:

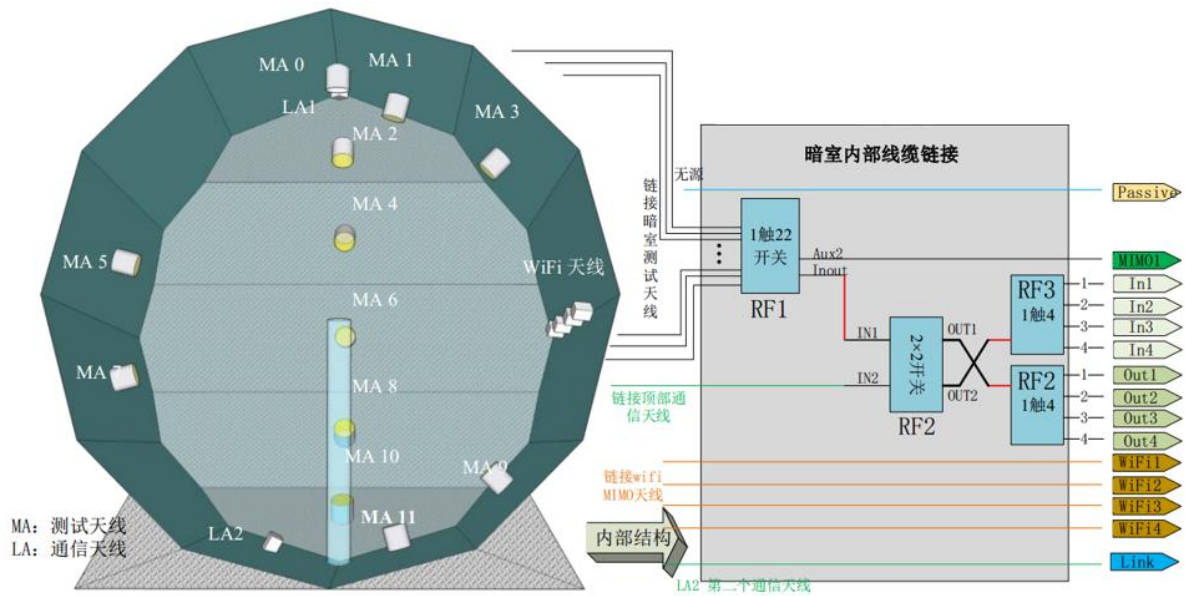
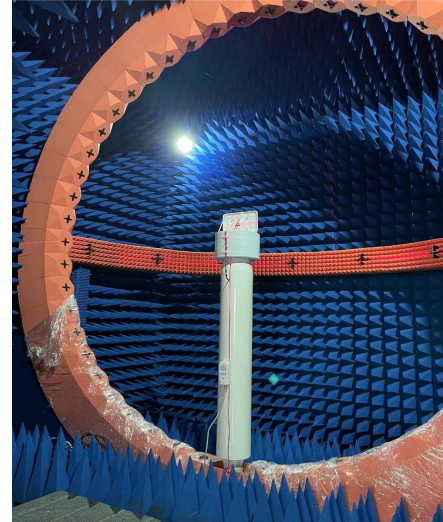
Rohde & Schwarz CWM500

3. 3D Chamber Test System



微波测量暗室

Test the darkroom



无源测试 Passive testing

整机 S11 测试:



效益&增益

Efficiency&Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2410	32.14	0.43
2420	32.14	0.69
2430	29.58	0.6
2440	31.41	0.88
2450	30.83	0.81
2460	32.28	1.14
2470	34.51	1.54
2480	33.73	1.48

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5180	27.29	1.75
5190	24.83	1.29
5200	25.41	1.4
5210	25	1.56
5220	28.05	2.29
5230	24.72	1.84
5240	24.89	1.7
5250	22.59	1.07
5260	25.7	1.77
5270	26.06	1.84
5280	26.98	1.93
5290	24.89	1.39
5300	25.82	1.43
5310	27.67	2
5320	27.8	2.07
5330	29.44	2.37
5340	29.79	2.49
5350	27.23	2
5360	28.05	2.07
5370	25.88	1.74
5380	28.91	2.16
5390	27.8	1.86
5400	25.94	1.28
5410	23.93	0.93

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5420	22.96	0.95
5430	25.06	1.48
5440	27.86	2.03
5450	25.41	1.57
5460	26.18	1.58
5470	27.16	1.65
5480	27.42	1.65
5490	28.64	1.7
5500	27.29	1.42
5510	31.19	1.89
5520	30.06	1.74
5530	29.72	1.93
5540	26.92	1.49
5550	26.67	1.55
5560	27.29	1.7
5570	25.35	1.07
5580	24.15	0.67
5590	25.53	1.04
5600	27.29	1.29
5610	25.76	0.89
5620	25.94	0.67
5630	27.23	0.93
5640	29.24	1.35
5650	32.73	1.84

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5660	33.5	2.1
5670	29.44	1.39
5680	33.73	1.82
5690	33.11	1.64
5700	36.48	1.87
5710	31.92	1.14
5720	29.65	0.79
5730	31.41	0.8
5740	29.72	0.58
5750	31.26	0.91
5760	31.55	0.95
5770	31.7	0.92
5780	32.21	0.76
5790	30.34	0.41
5800	32.51	0.78
5810	32.96	0.63
5820	37.5	1.03
5830	36.73	0.81

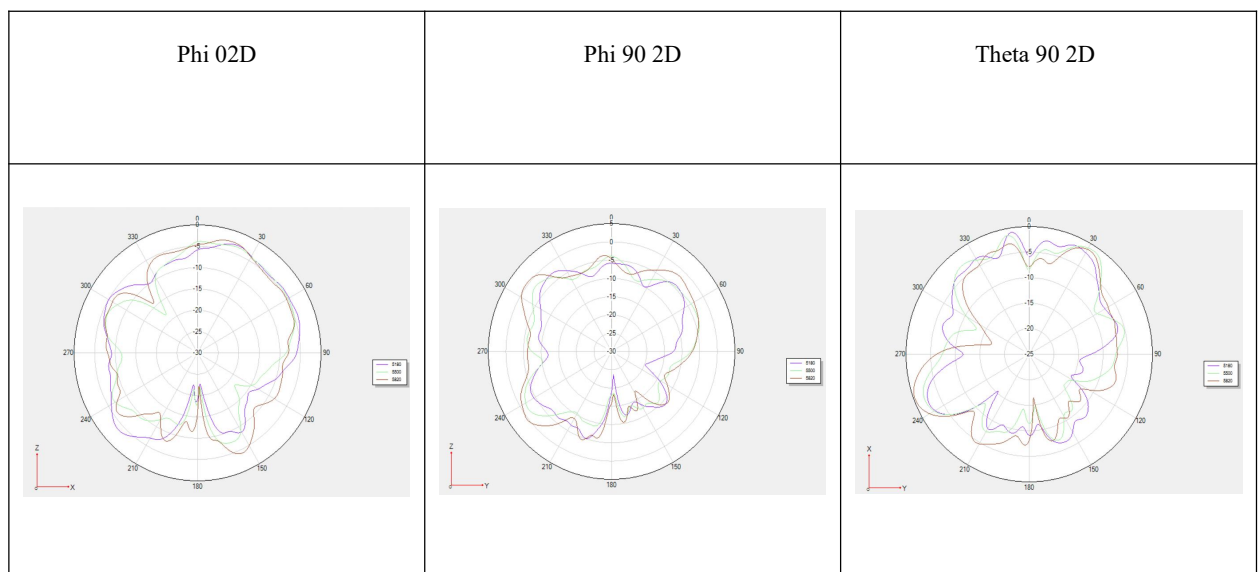
有源 OTA 测试数据 Active OTA test data

Band	Measurement	Channel	Frequency	Total
WIFI_B (11M)	TRP	1	2412	12.15
WIFI_B (11M)	TRP	7	2442	11.62
WIFI_B (11M)	TRP	13	2472	11.9
WIFI_B (11M)	TIS	1	2412	-82.46
WIFI_B (11M)	TIS	7	2442	-83.13
WIFI_B (11M)	TIS	13	2472	-83.28
WIFI_G (54M)	TRP	1	2412	9.82
WIFI_G (54M)	TRP	7	2442	9.54
WIFI_G (54M)	TRP	13	2472	9.55
WIFI_G (54M)	TIS	1	2412	-69.47
WIFI_G (54M)	TIS	7	2442	-69.91
WIFI_G (54M)	TIS	13	2472	-69.88
WIFI_N_ISM (65M)	TRP	1	2412	9.97
WIFI_N_ISM (65M)	TRP	7	2442	9.72
WIFI_N_ISM (65M)	TRP	13	2472	9.84
WIFI_N_ISM (65M)	TIS	1	2412	-66.23

Band	Measurement	Channel	Frequency	Total
WIFI_N_ISM (65M)	TIS	7	2442	-66.68
WIFI_A (54M)	TRP	36	5180	8.69
WIFI_A (54M)	TRP	149	5745	9.42
WIFI_A (54M)	TRP	165	5825	9.31
WIFI_A (54M)	TIS	36	5180	-69.28
WIFI_A (54M)	TIS	149	5745	-69.98
WIFI_A (54M)	TIS	165	5825	-69.12

方向图

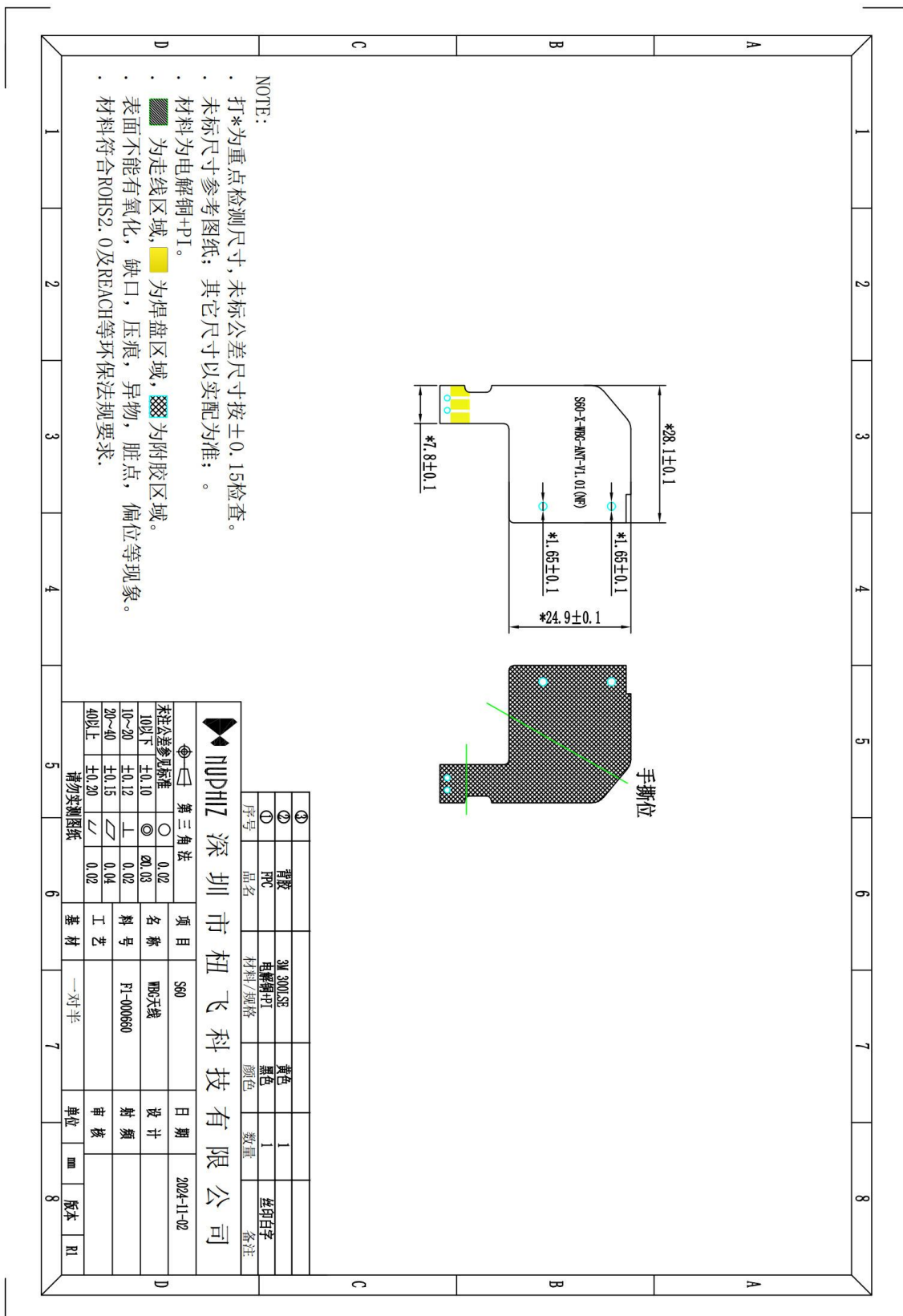
Directional map



天线装配图

Antenna assembly drawing

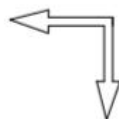




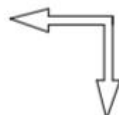


产品包装

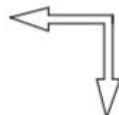
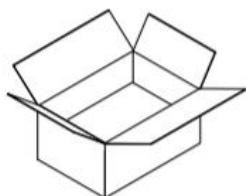
一：天线产品 (Antenna products)



二：用PE封口袋, 数量以 (50 100PCS) 整数装, 具体实际为准 (Put them in PE bags, quantity is packed in (50 100pcs) , Subject to the actual situation)



三：将装好的天线放入纸箱中 (以实际数量为准) (Put the antenna in the carton)



四：封箱, 外箱贴我司生产标签和ROHS标签 (最终以实际情况为准) (Seal the box and paste the production label and RoHS label on the outer box (actual situation shall prevail))

