

Laboratory test environment and equipment



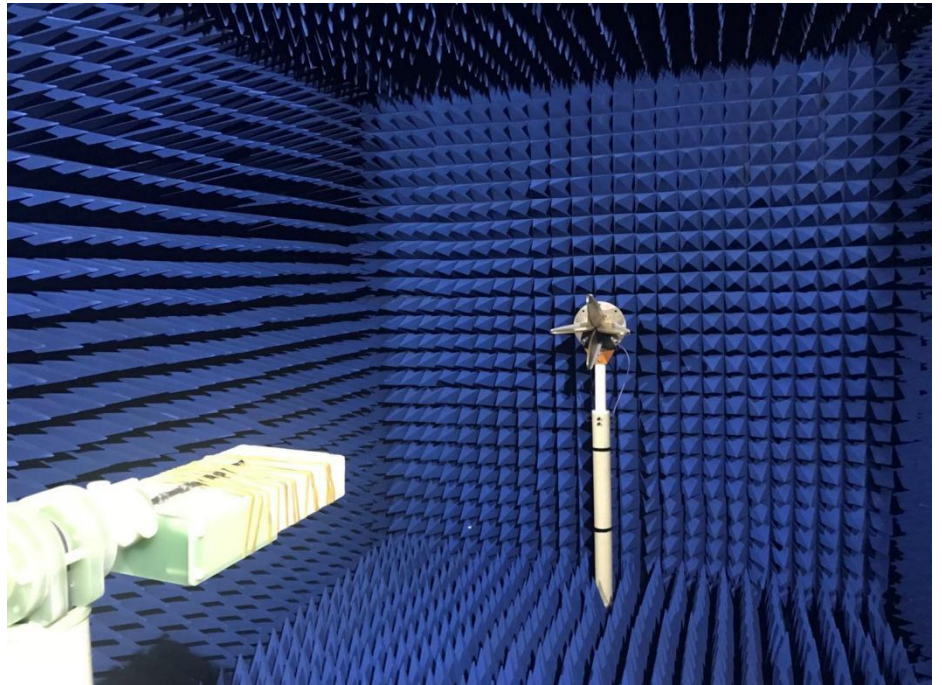
CMW500



E5071B



Aglient 8960



(Test Project) : S11、S12 、VSWR 、Efficiency、Gain 3D Radiation Pattern、TRP、TIS

Specification acknowledgement..... 3

1.Mechanical Drawing) 4

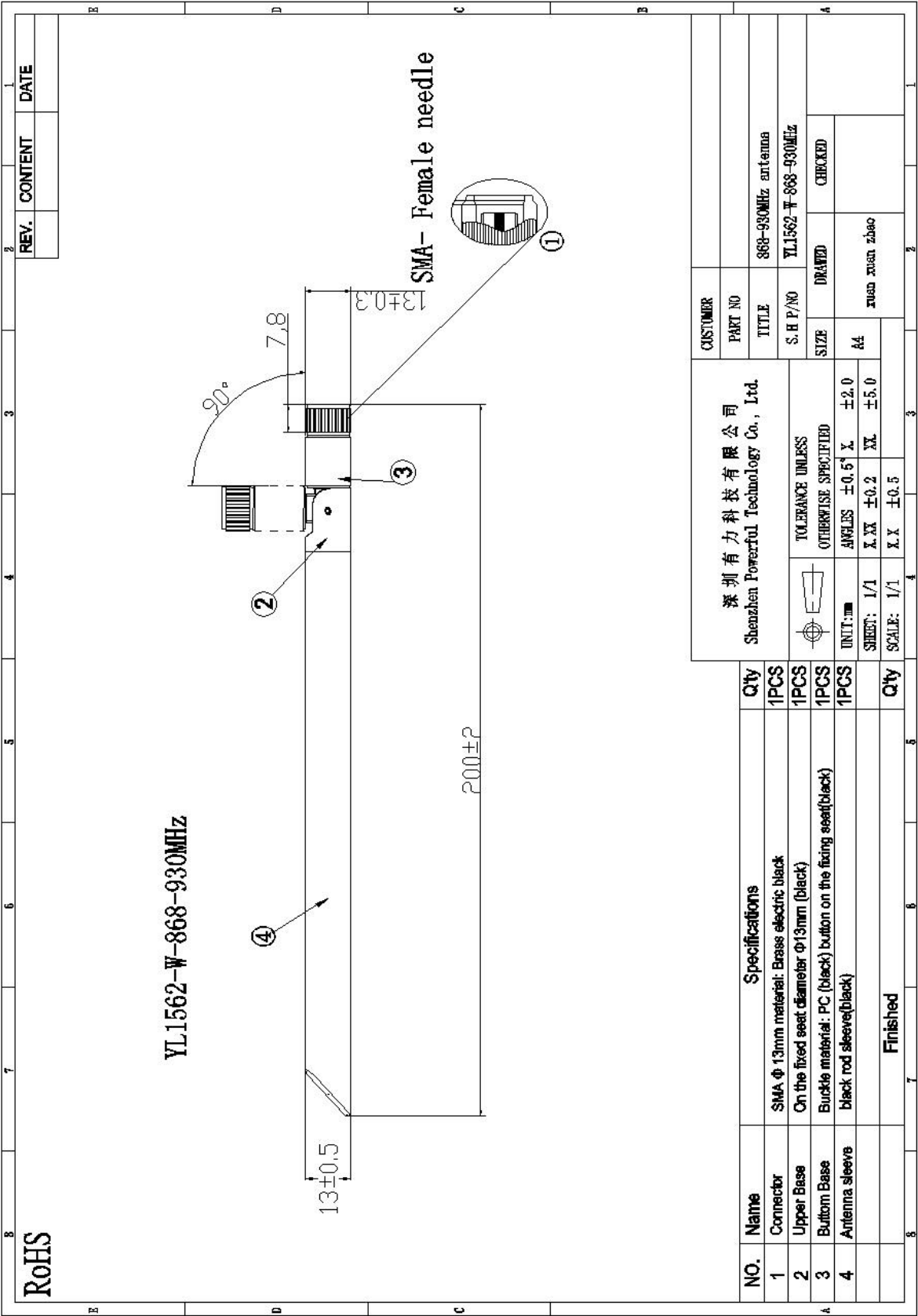
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1. Technical Index)

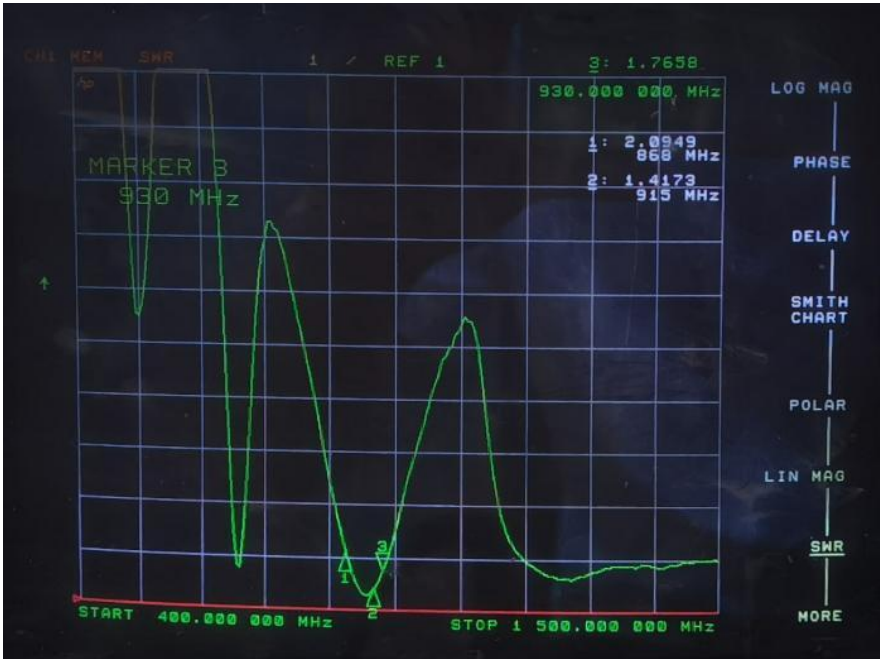
Frequency Range (MHz)	868-930MHz
Gain(dBi)	MAX 1.88dBi
VSWR/50 Ohms	≤2.0
Impedance	50 Ω
coupler	SMA Male head female needle
Operating temperature (°C)	-30~+85

2.Drawings

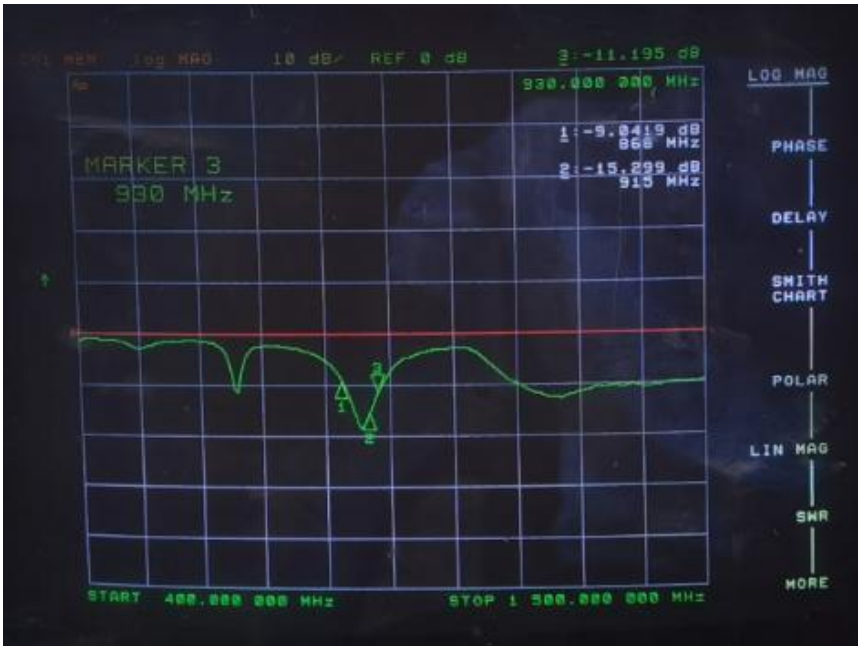


3.Antenna test data

SWR



Log mag



3-1 Antenna passive efficiency/gain

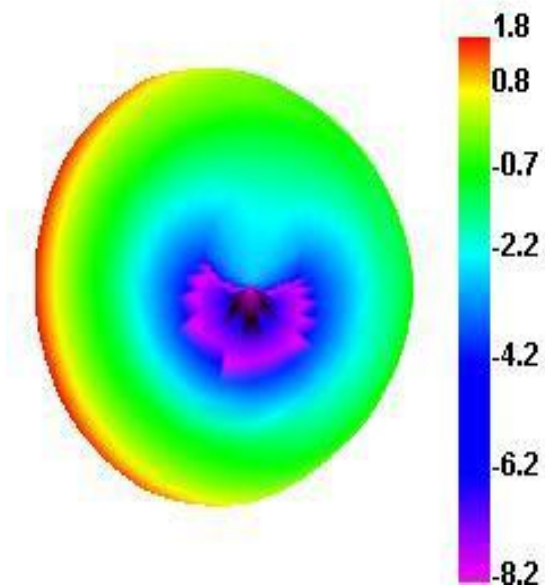
Passive Test For 860_930		
Freq (MHz)	Effi (%)	Gain (dBi)
862	50.59	1.7
863	50.58	1.72
864	50.61	1.74
865	50.94	1.8
866	50.35	1.79
867	49.93	1.78
868	49.75	1.79
869	49.7	1.81
870	49.66	1.83
871	49.85	1.85
872	49.98	1.87
873	49.87	1.88
874	49.57	1.86
875	49.08	1.84
876	48.92	1.83
877	48.67	1.83
878	48.38	1.83
879	48.07	1.83
880	47.89	1.83
881	47.72	1.83
882	47.61	1.85
883	47.56	1.86
884	47.53	1.87
885	47.44	1.88
886	47.05	1.87
887	46.53	1.86
888	45.89	1.83
889	45.25	1.8
890	44.58	1.77
891	43.93	1.74
892	43.38	1.73
893	42.94	1.71

ShenZhen Powerful Technology CO., Limited

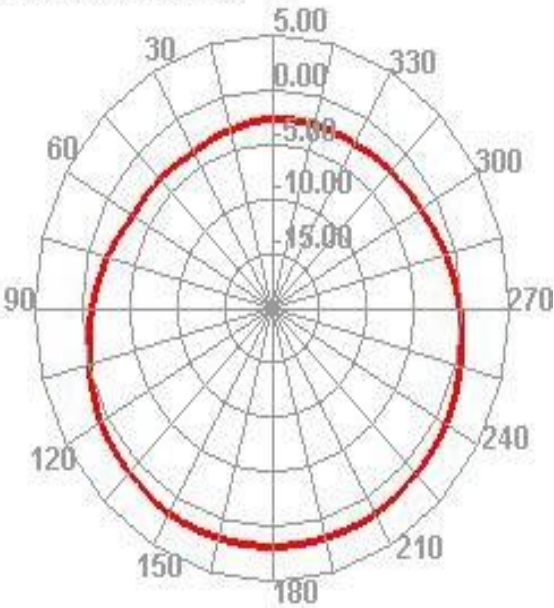
894	42. 63	1. 71
895	42. 49	1. 73
896	42. 41	1. 74
897	42. 45	1. 76
898	42. 57	1. 8
899	42. 66	1. 82
900	42. 75	1. 83
901	42. 79	1. 86
902	42. 78	1. 88
903	42. 71	1. 88
904	42. 5	1. 88
905	42. 25	1. 87
906	42. 01	1. 87
907	41. 71	1. 87
908	41. 39	1. 85
909	40. 99	1. 83
910	40. 59	1. 81
911	40. 31	1. 79
912	40. 03	1. 76
913	39. 89	1. 74
914	39. 77	1. 73
915	39. 74	1. 72
916	39. 67	1. 69
917	39. 55	1. 66
918	39. 48	1. 64
919	39. 28	1. 61
920	39	1. 57
921	38. 49	1. 52
922	37. 8	1. 42
923	37. 07	1. 34
924	36. 33	1. 25
925	35. 55	1. 15
926	34. 81	1. 05
927	34. 19	0. 95
928	33. 71	0. 87
929	33. 42	0. 8
930	33. 33	0. 74

3-2 Antenna direction diagram

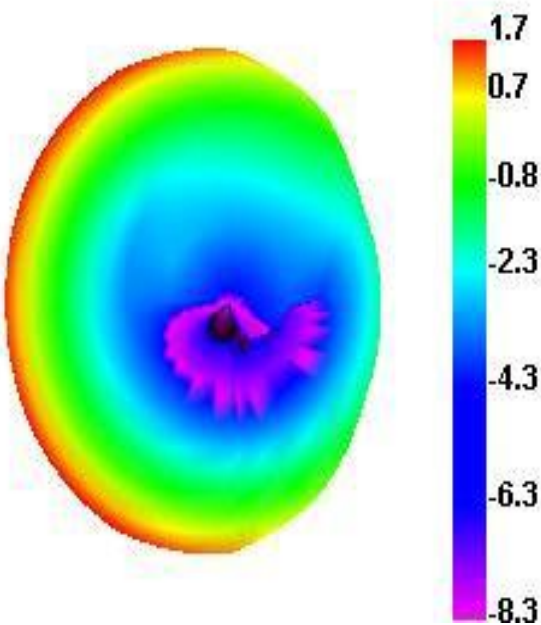
868.000MHz



868.000MHz H



915.000MHz



915.000MHz H

