

K908 Antenna Test Report

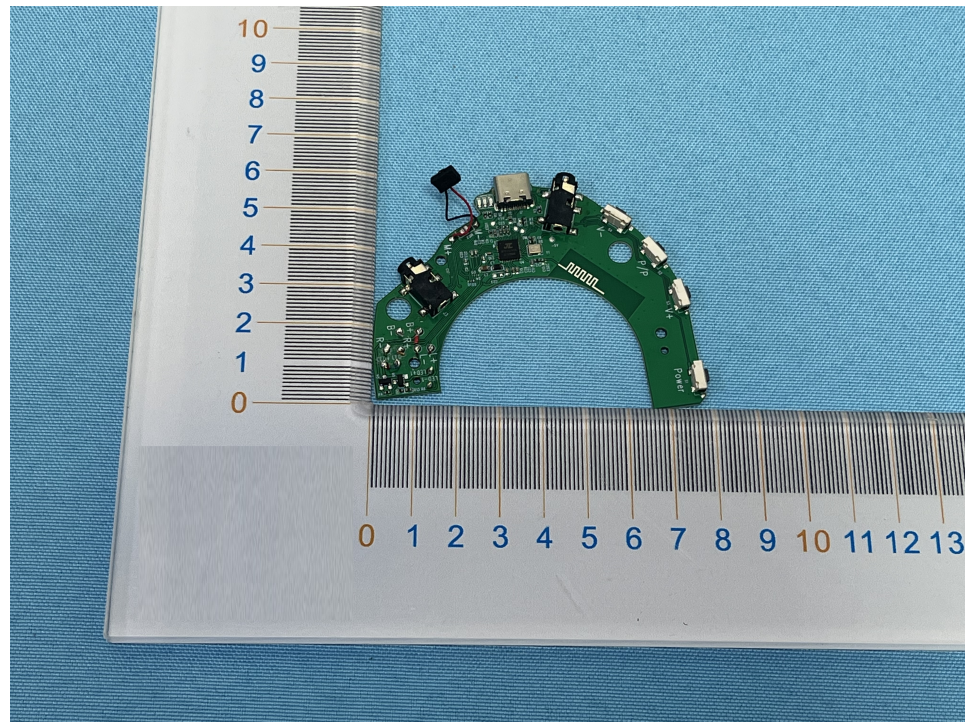
Customer	优程
Project	K908
Antenna Revision	A1
Product Description	PCB Antenna
Product No	
DATE	2024. 05. 30

Product Overview & Dimension

Front



Dimensions



Purpose

This report is to measure the performance of BT antenna for K908. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

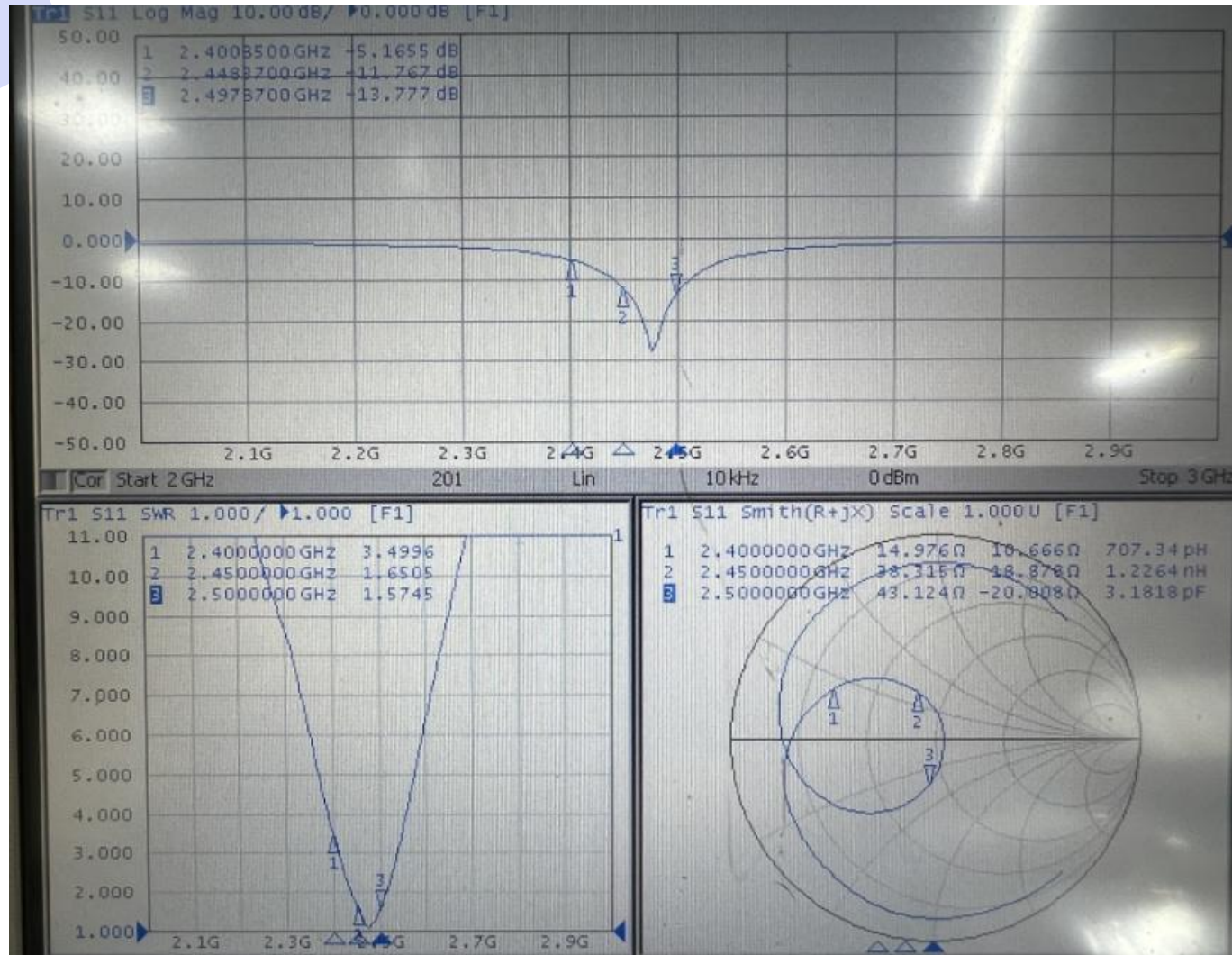
1. Product Overview & Dimension
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2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

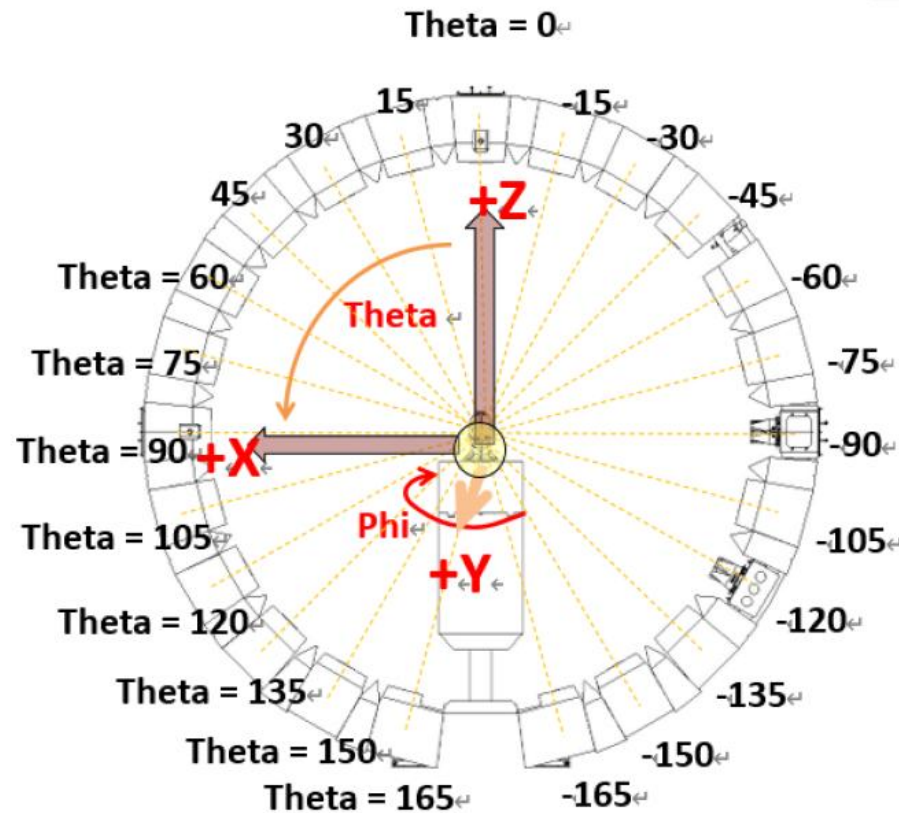


S11—(BT ANT)



Test Result

Sample status & coordinates



Test Result

Gain & Efficiency—**BT- ANT**



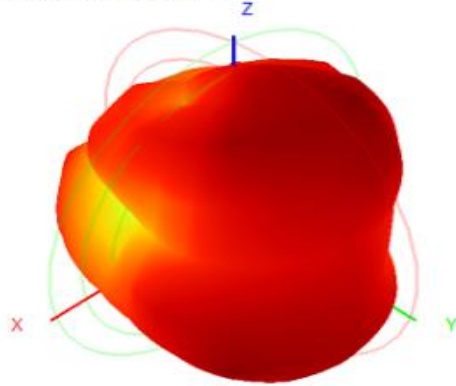
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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-5.38	-5.61	-5.64	-5.30	-5.16	-4.82	-4.65	-4.90	-5.10	-5.50	-5.81
Gain (dBi)	0.99	0.83	0.59	1.20	1.50	1.76	1.47	1.23	1.41	1.23	0.38
Efficiency (%)	28.98	27.51	27.28	29.48	30.48	32.96	34.27	32.34	30.93	28.17	26.23
Directivity (dB)	6.37	6.44	6.23	6.51	6.66	6.58	6.12	6.13	6.51	6.73	6.20
Peak Gain Position (Theta)	75.00	60.00	90.00	105.00	30.00	30.00	30.00	75.00	75.00	75.00	60.00
Peak Gain Position (Phi)	75.00	75.00	45.00	60.00	60.00	105.00	75.00	75.00	75.00	75.00	75.00
Efficiency ThetaPol (%)	7.10	6.92	6.89	7.54	7.99	8.90	9.24	8.40	8.54	7.98	7.68
Efficiency PhiPol (%)	21.87	20.59	20.39	21.94	22.50	24.06	25.02	23.95	22.39	20.19	18.55
Upper Hem. Efficiency (%)	16.45	14.72	14.08	15.01	16.47	18.86	20.08	19.17	18.72	16.39	15.11
Lower Hem. Efficiency (%)	12.53	12.79	13.20	14.47	14.02	14.10	14.19	13.17	12.21	11.78	11.12

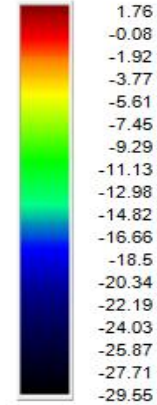
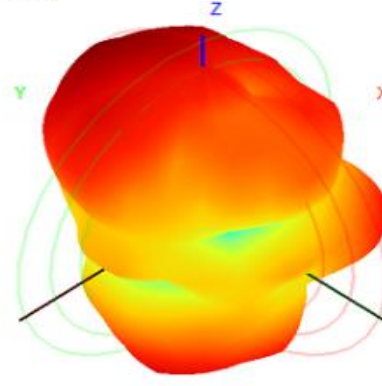
Test Result

2D&3D — BT- ANT

2450.0MHz H+V, Eff: 33.0%



Back View



OTA DATA

Test Equipment:	R&S CMW500			
Test Condition:				
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
BT		0	1.67	-87.54
		39	1.4	-86.35
		78	1	-86.62

BH

Test Equipment:	R&S CMW500			
Test Condition:				
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
BT		0	0.23	-85.25
		39	-0.15	-84.11
		78	-0.68	-84.32

Thanks for your comment!

✧ 深圳市合拓科技有限公司

✧ 深圳：深圳市宝安区西乡恒丰工业城C6栋1202B

✧ RF：吴寿平 18665934465