

ZEVIN(CREDITS)TECHNOLOGY

SHEET FOR APPROVAL

(Revision : R : A0)

	CUSTOMER(客户名称)	温致	
	CS P/N(客户机种)	WZ4.0	
	PART NAME(品名)	Internal Antenna	
	FREQUENCY(频率)	WIFI	
	CREDITS NO.(物料编号)		
	DATE(日期)	2022-06-29	

CUSTOMER (客户确认)			
QA (品质)	ME (结构)	RF (射频)	MANAGER (经理)

Remark(备注):

SHENZHEN ZEVIN TECHNOLOGY CO., LTD-CREDITS (深圳市泽文电子科技有限公司-科瑞迪斯)			
QA (品质)	ME (结构)	RF (射频)	MANAGER (经理)

ANTENNA SPECIFICATION

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1. General Description

This report summarizes the electrical performance results of the proposed Internal antenna to support the WZ-WF (MM) program. The antenna is an assembly WIFI 2.4G.



2. Electrical Specifications

2-1 Set-up

2-1-1 Frequency Band

Frequency Band	Tx(MHz)	Rx(MHz)
GSM900	880 ~ 915	925 ~ 960
DCS1800	1710 ~ 1785	1805 ~ 1880
WIFI/BT	2400-2450-2500	

2-1-2 Impedance

Nominal Impedance(including matching circuit) : **50** ohms

2-1-3 Matching Requirements

The matching circuit on the PCB of the handset is according to Figure 1

Optimum matching circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available.

客供

2-1-4 VSWR And GAIN

VSWR			GAIN		
Freq. Band	OPEN	SPEC	Band	Freq.	OPEN SPEC

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2400MHz	≤ 2.5	2400MHz	$\geq -1.0\text{dBi}$
2450MHz	≤ 2.0	2450MHz	$\geq 0.5\text{dBi}$
2500MHz	≤ 2.0	2500MHz	$\geq -1.0\text{dBi}$

※Measuring a 50Ω test jig is connected to a network analyzer to measure the VSWR

※※All test value is done in customer approval fixture.

2-2 Test Data

2-2-1 WIFI VSWR

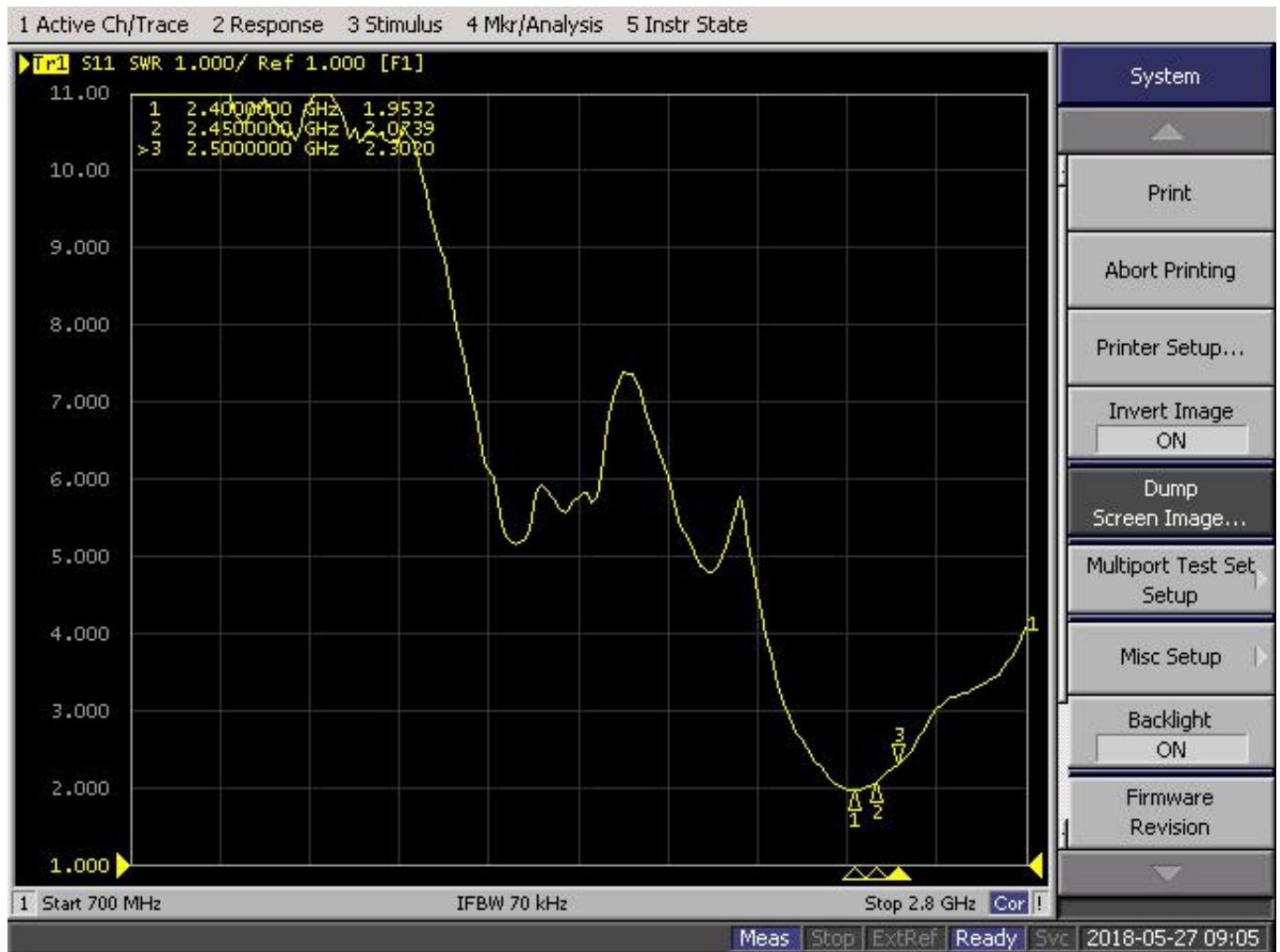
Model No:	File:
CREDITS NO:	Note: WIFI-VSWR
Sample No:	
Test Condition: Free Space	Matching: 客供
Confirmation:	Engineer:

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2-2-2 Gain

Passive Test For D4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	23.65	-6.26	-1.97	-4.12	10.276	13.374	-1.97	-33.82
2405	24.97	-6.03	-1.68	-3.83	11.038	13.937	-1.68	-32.99
2410	26.86	-5.71	-1.39	-3.54	12.193	14.669	-1.39	-33.25
2415	28.74	-5.41	-1.18	-3.33	13.475	15.268	-1.18	-32.77
2420	29.72	-5.27	-1.06	-3.21	14.08	15.643	-1.06	-32.95
2425	29.17	-5.35	-1.06	-3.21	15.514	13.658	-1.06	-31.53

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2430	27.98	-5.53	-1.33	-3.48	15.043	12.933	-1.33	-31.89
2435	27.15	-5.66	-1.46	-3.61	14.685	12.461	-1.46	-32.17
2440	26.3	-5.8	-1.66	-3.81	14.245	12.055	-1.66	-31.91
2445	25.74	-5.89	-1.9	-4.05	14.111	11.628	-1.9	-32.43
2450	24.83	-6.05	-2.22	-4.37	13.681	11.149	-2.22	-32.18
2455	23.47	-6.3	-2.6	-4.75	12.992	10.477	-2.6	-32.01
2460	22.91	-6.4	-2.79	-4.94	12.746	10.168	-2.79	-32.63
2465	23.68	-6.26	0.12	-2.03	10.115	13.564	0.12	-32.36
2470	22.35	-6.51	-0.11	-2.26	9.709	12.638	-0.11	-32.58
2475	21.66	-6.64	-0.26	-2.41	9.527	12.135	-0.26	-32.88
2480	20.65	-6.85	-2.64	-4.79	8.543	12.109	-2.64	-34.69
2485	22.04	-6.57	-2.28	-4.43	9.388	12.65	-2.28	-34.45
2490	21.65	-6.65	-3.22	-5.37	12.158	9.489	-3.22	-32.73
2495	20.32	-6.92	-3.3	-5.45	11.503	8.82	-3.3	-32.86
2500	19.77	-7.04	-3.29	-5.44	11.214	8.552	-3.29	-33.38

3. Mechanical Specification

3-1-1 Mechanical Configuration(组装图)

3-2 Measurement Data

3-3 Salt-Spray test

35°C, 85%RH, 48Hours(According to MIL-STD-810E)The salt-spray is generated from a 5% salt solution., The VSWR, Gain, Radiation Pattern must be met specifications after the salt-spray test.

4. Environment Characteristic

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