

Letter of acceptance

FIRST ARTICLE REPORT

Customer Name: Master Mei Fu Electronics Co., Ltd

Customer model: S 5 1 6 1

Antenna Silk Screen: S5161-L-V2 S5161-R-V2

Date : 2024. 08. 09

Approval: The lord of Kangzhong

Customer confirmation			
Quality	Research	Procurement	Approved

Please sign back a letter of acknowledgment to our company, thank you!

Type: ☒Sample ☐First batch ☐ Large quantity

深圳市力同创科技有限公司
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Shenzhenshi Li Tongchuang Technology Co., Ltd

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1. Testing tools

Comprehensive measuring instrument	Agelent Techmologies E5071B & R&S CMW500
darkroom	Atenlab M3
Test engineer	Zhuang Zhicheng
temperature	25℃
humidity	65%（RH）

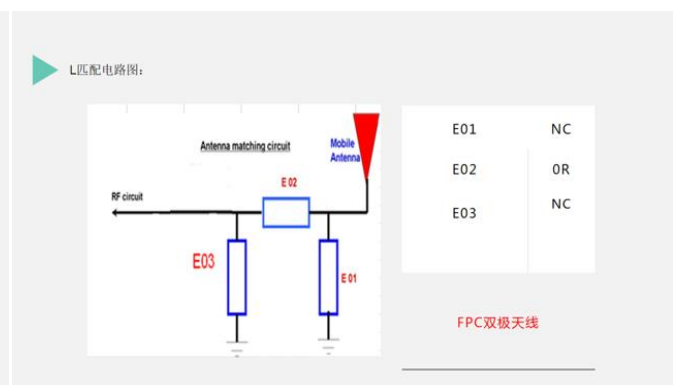
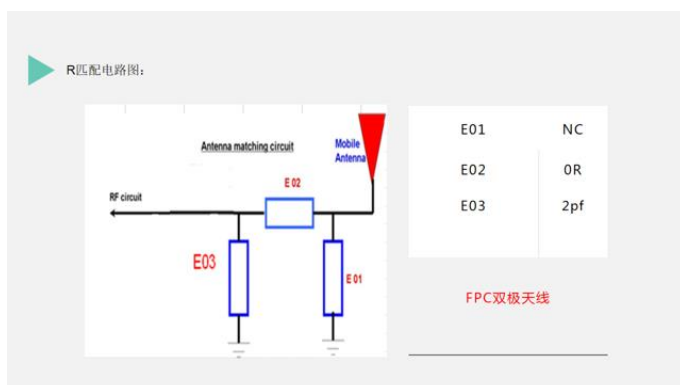


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2. Basic information

Customer name:	Master Mei Fu Electronics Co., Ltd
Complete machine type:	S5161
Antenna frequency band:	2400MHZ 2485MHZ
Antenna Form:	FPC
Feed form:	Double feed
Number of Feed Feet:	Dual main feed points + touch feed points
Motherboard version:	S4-R-V1.2 S4-L-V1.2

3. Antenna information



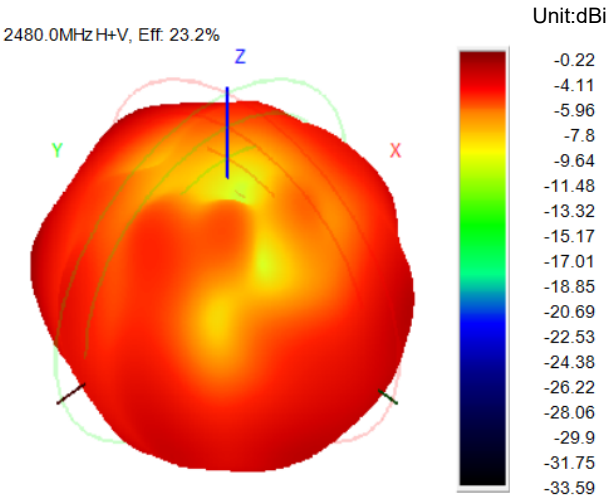
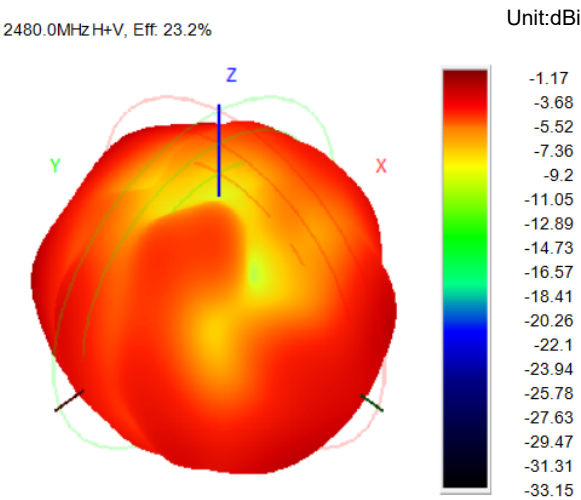
4. Gain efficiency ActiveOTA-TRP-TIS

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Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	23.21	-6.34	-1.98	-4.13
2410	25.18	-5.99	-1.77	-3.92
2420	25.24	-5.98	-1.87	-4.02
2430	25.57	-5.92	-1.86	-4.01
2440	28.53	-5.45	-1.44	-3.59
2450	30.23	-5.2	-1.21	-3.36
2460	26.87	-5.71	-1.74	-3.89
2470	27.27	-5.64	-1.49	-3.64
2480	28.42	-5.46	-1.17	-3.32
2490	25.53	-5.93	-1.55	-3.7
2500	22.78	-6.42	-1.95	-4.1

R

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	37	-4.32	-0.99	-3.14
2410	32.05	-4.94	-1.58	-3.73
2420	36.35	-4.4	-1.02	-3.17
2430	34.68	-4.6	-1.11	-3.26
2440	32.99	-4.82	-1.17	-3.32
2450	38.02	-4.2	-0.39	-2.54
2460	32.67	-4.86	-0.97	-3.12
2470	36.7	-4.35	-0.4	-2.55
2480	38.02	-4.2	-0.22	-2.37
2490	34.64	-4.6	-0.57	-2.72
2500	34.81	-4.58	-0.52	-2.67



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Test Result	Bluetooth TRP		
	0	39	78
Frequency (MHz)	2402	2441	2480
TRP(dBm)	1.03	1.2	0
NHPRP(dBm) 45	1.03	1.2	0
MAX(dBm)	4.57	5	4.17
EIRP peak	4.57	5	4.17
Min(dBm)	-9.29	-11.23	-12.15
Attenuation Horizontal	43.41	43.81	44.58
Attenuation Vertical	43.17	43.6	44.38
Test Result	Bluetooth TIS		
	0	39	78
Frequency (MHz)	2402	2441	2480
TIS(dBm)	-83.51	-85.1	-86.92
NHPIS(dBm) 45	-83.51	-85.1	-86.92
RSSIAve	1.89	0.88	0.07
MaxPosRSSI	5.41	4.56	4.1
MaxPosSens	-87.03	-88.78	-90.96
MAX(dBm)	5.43	4.68	4.24
EIS peak	5.43	4.68	4.24
Min(dBm)	-8.43	-11.55	-12.08
Attenuation Horizontal	44.27	43.49	44.65
Attenuation Vertical	44.03	43.28	44.45

Test Result	Bluetooth TRP		
	0	39	78
Frequency (MHz)	2402	2441	2480
TRP(dBm)	4.07	3.58	1.81
NHPRP(dBm) 45	4.07	3.58	1.81
MAX(dBm)	6.87	6.33	4.17
EIRP peak	6.87	6.33	4.17
Min(dBm)	-1.18	-2.96	-5.43
Attenuation Horizontal	43.41	43.81	44.58
Attenuation Vertical	43.17	43.6	44.38
Test Result	Bluetooth TIS		
	0	39	78
Frequency (MHz)	2402	2441	2480
TIS(dBm)	-90.04	-89.49	-88.88
NHPIS(dBm) 45	-90.04	-89.49	-88.88
RSSIAve	4.93	3.26	1.88
MaxPosRSSI	6.92	4.05	2.16
MaxPosSens	-92.03	-90.28	-89.15
MAX(dBm)	7.73	6.01	4.24
EIS peak	7.73	6.01	4.24
Min(dBm)	-0.32	-3.28	-5.36
Attenuation Horizontal	44.27	43.49	44.65
Attenuation Vertical	44.03	43.28	44.45

