

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

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Customer	Zhuo yue	Frequency Band	2400MHz-2500MHz
Model	WDC01		
RF designer	zhengzhou	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2025/9/15

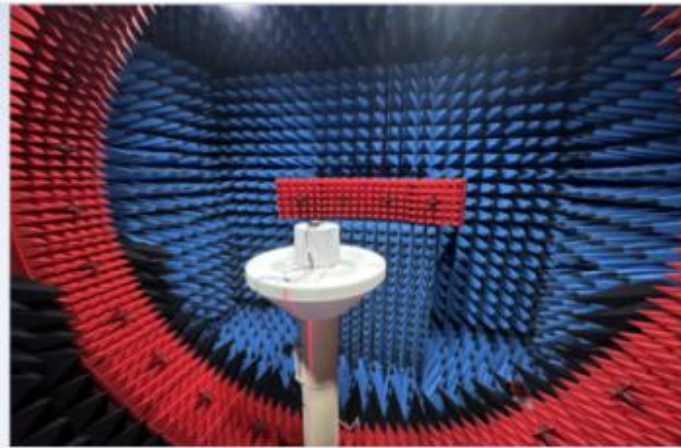
Confirm by customer:

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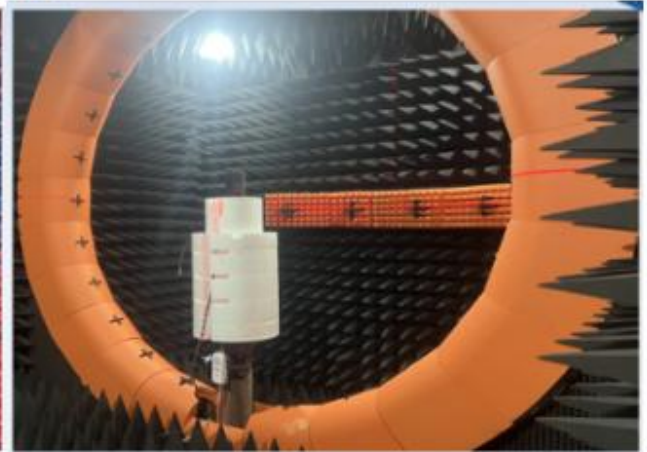
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1. The Equipment of Active&Passive Test

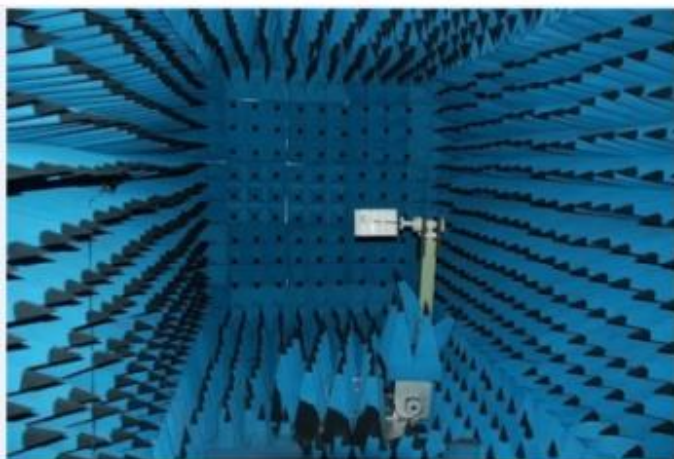
chamber



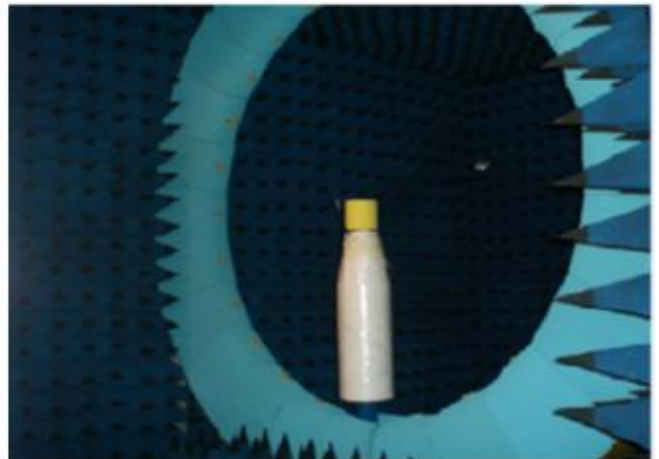
SUNYIELD



ATS-300L



Guang Ping



Satimo

Equipment

R&S CMW500



Agilent E5071C



Anritsu MT8820C



Agilent N4010A



Agilent E4438C Signal Generator



Anritsu MT8000A



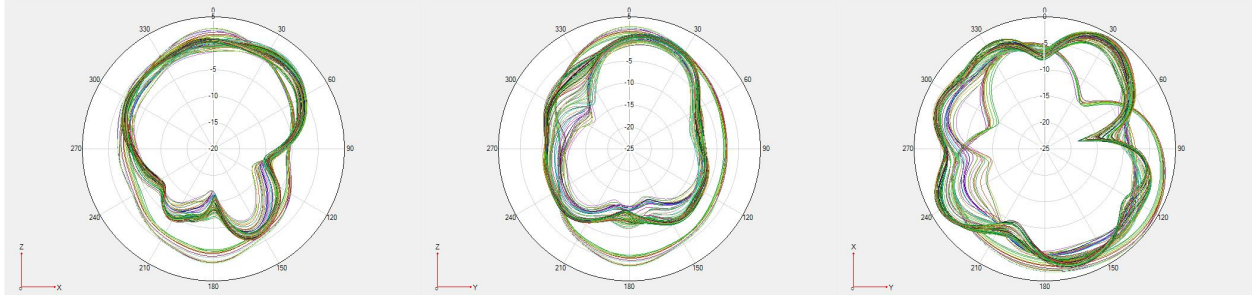
2. Passive Test

2.1 Passive Efficiency and Gain

Efficiency and Gain(free space)

Frequency /Mhz	Efficiency cy/dB	Efficiency cy/%	MaxGain /dBi
2400	-2.59	55.08	2.39
2410	-2.49	56.36	2.75
2420	-2.64	54.45	2.81
2430	-2.68	53.95	2.82
2440	-2.74	53.21	2.42
2450	-2.89	51.4	2.14
2460	-3.18	48.08	1.79
2470	-3.23	47.53	1.56
2480	-3.33	46.45	1.28
2490	-3.51	44.57	0.85
2500	-3.55	44.16	0.69

2.2 Passive 2D pattern



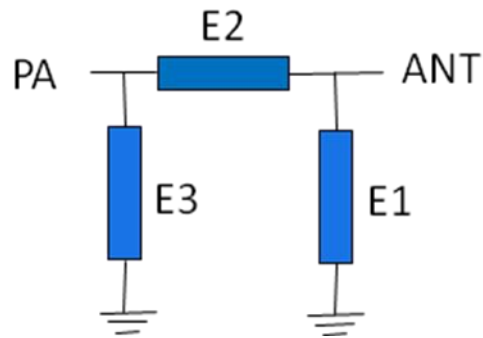
3.Active test

3.1 TRP&TIS

Measurement	Band	Channel	Frequency	Max	Min	Total
TRP	WIFI_B (11M)	1	2412	17.29	9.11	13.63
TIS(EIRP)			2412	-83.37	-91.51	-87.9
TRP		7	2442	17.05	9.91	13.81
TIS(EIRP)			2442	-82.82	-89.97	-86.74
TRP		13	2472	16.67	10.06	13.78
TIS(EIRP)			2472	-81.79	-88.36	-85.51
TRP	WIFI_G (54M)	1	2412	15.19	6.87	11.61
TIS(EIRP)			2412	-70.16	-78.53	-74.95
TRP		7	2442	15.03	7.7	11.85
TIS(EIRP)			2442	-70.66	-78	-74.82
TRP		13	2472	14.23	7.68	11.43
TIS(EIRP)			2472	-70.98	-77.54	-74.74
TRP	WIFI_N_ISM (6.5M)	1	2412	17.15	8.74	13.57
TIS(EIRP)			2412	-86.47	-94.89	-91.3
TRP		7	2442	17.03	9.66	13.85
TIS(EIRP)			2442	-85.2	-92.58	-89.39
TRP		13	2472	16.3	9.74	13.5
TIS(EIRP)			2472	-87.19	-93.74	-90.94
TRP	WIFI_AC (78M)	36	5180	17.66	0.85	13.63
TIS(EIRP)			5180	-56.8	-73.59	-69.57
TRP		64	5320	17.99	2.58	14.39
TIS(EIRP)			5320	-58.08	-73.5	-69.9
TRP		149	5745	17.4	7.67	15.31
TIS(EIRP)			5745	-61.98	-71.73	-69.63
TRP		165	5825	16.74	8.86	15.12
TIS(EIRP)			5825	-62.16	-70.06	-68.44

4. Matching Circuit

Element	E1	E2	E3
Value	NC	$0\ \Omega$	NC



5. Antenna placement



6. chamber placement

