



Antenna Test Report

MN: truck-FP7R2

RF: 关巍

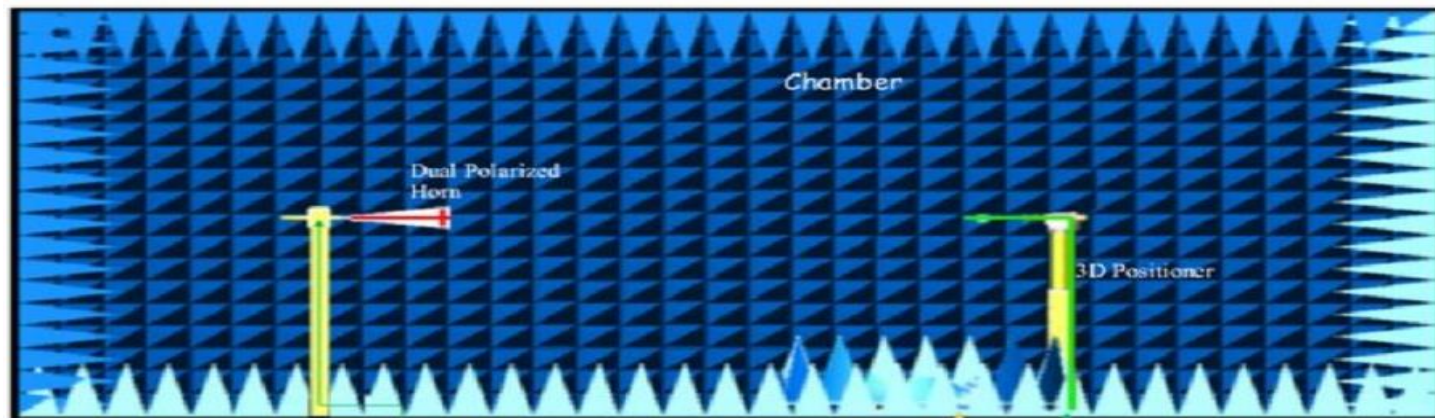
MD: 黄清清

MP: 19918388579

Date: 2025. 4. 2.

REV :V1. 0

OTA Chamber Overview



0.1~12.5Ghz
RF Switch Box

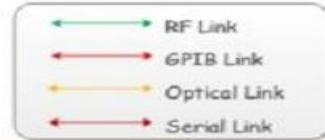
Wireless
Communications
Test Set 1

Wireless
Communications
Test Set 2

Network
Analyzer

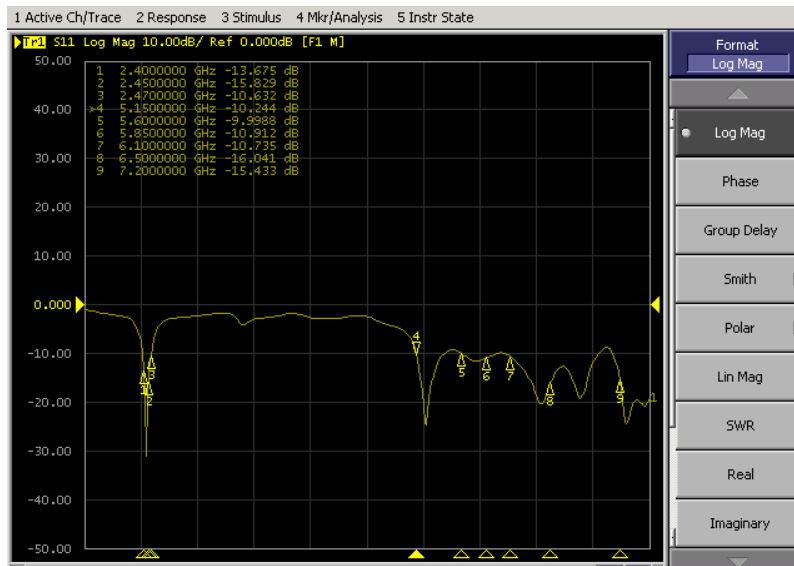
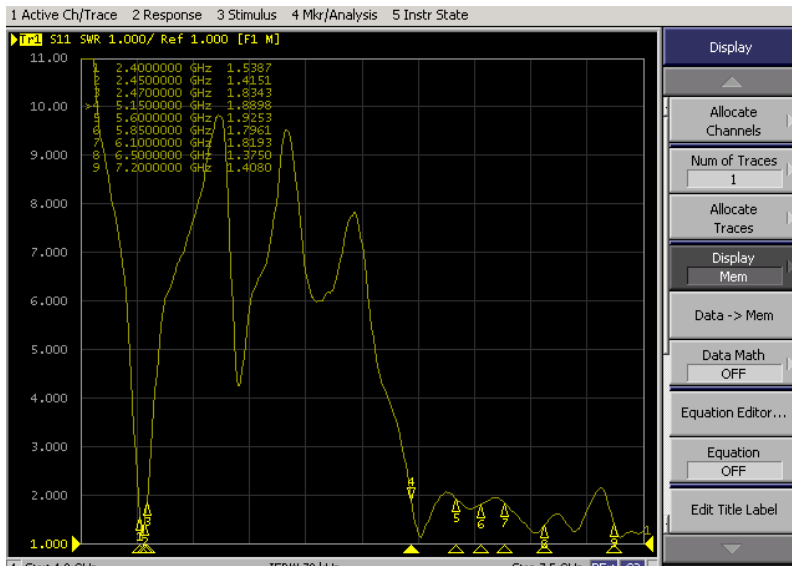


Standard	
Passive	Agilent HP8753/E5062/E5071
GSM	Agilent 8960
CDMA2000	Agilent 8960
WCDMA	Agilent 8960
TDSCDMA	Agilent 8960
LTE	RS CMW500
BT	RS CMU500/200
WIFI	Agilent N4010



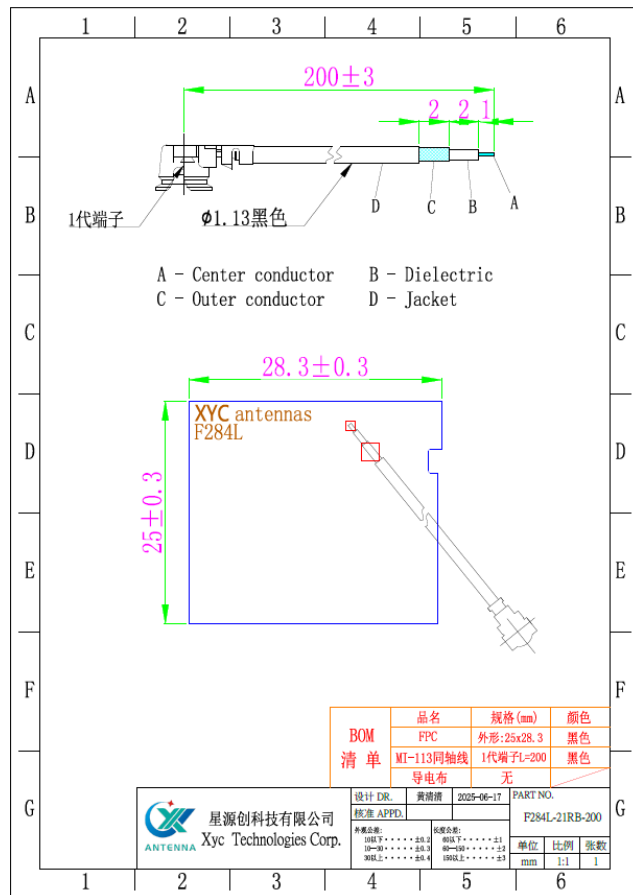
Passive test data

S11-VSWR&Return Loss



Frequency (MHZ)	2400	2450	2500	5150	5600	5850	6100	6500	7200
VSWR	1.53	1.41	1.83	1.88	1.92	1.75	1.81	1.37	1.40
Return Loss (DB)	-13.67	-15.82	-10.63	-10.24	-9.99	-10.91	-10.73	-16.04	-15.43

Antenna Assembly



Passive test data

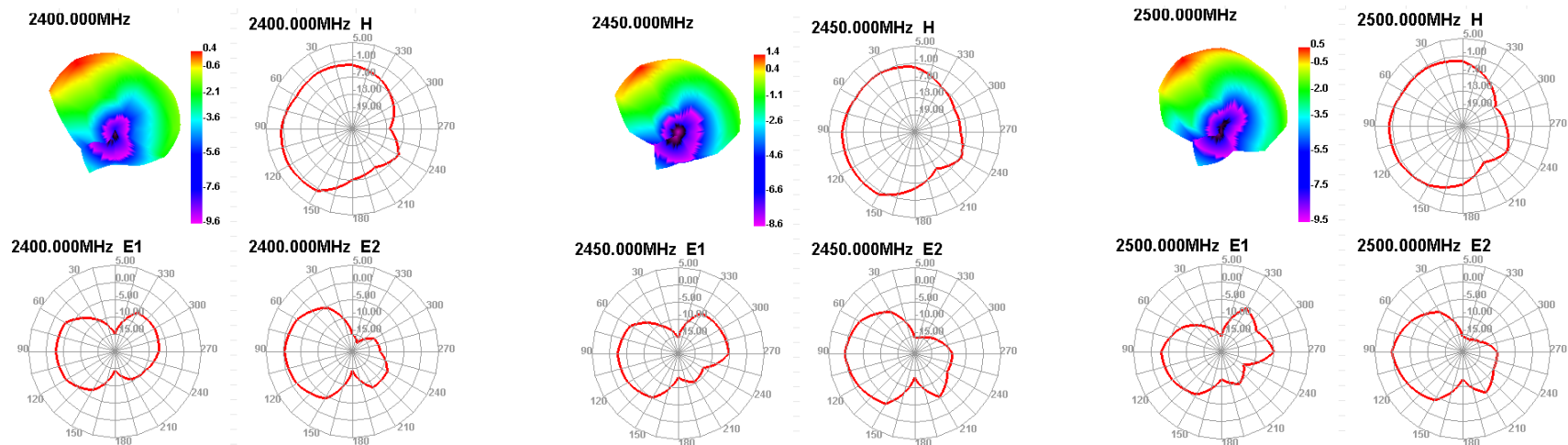
GAIN&Efficiency-WIFI2.4G

Passive Test For WIFI2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	33.79	-4.71	0.43	-1.72	16.617	17.173	0.43	-19.34	5.14	60	45.78	46.01
2410	34.93	-4.57	0.86	-1.29	17.332	17.603	0.86	-19.17	5.43	60	46.01	46.29
2420	36.81	-4.34	1.17	-0.98	18.285	18.521	1.17	-18.75	5.51	90	45.73	46.01
2430	36.3	-4.4	1.19	-0.96	18.134	18.163	1.19	-18	5.6	90	46.01	46.36
2440	37.49	-4.26	1.33	-0.82	18.741	18.75	1.33	-16.34	5.59	90	46.12	46.48
2450	37.28	-4.29	1.39	-0.76	18.546	18.731	1.39	-16.21	5.68	90	46.12	46.54
2460	38.01	-4.2	1.57	-0.58	18.741	19.272	1.57	-16.86	5.77	60	46.14	46.52
2470	35.3	-4.52	1.25	-0.9	17.286	18.009	1.25	-18.11	5.78	60	46.4	46.8
2480	32.28	-4.91	0.78	-1.37	15.709	16.575	0.78	-19.38	5.69	60	46.26	46.64
2490	30.04	-5.22	0.3	-1.85	14.562	15.481	0.3	-19.71	5.53	30	46.51	46.91
2500	30.64	-5.14	0.49	-1.66	14.799	15.843	0.49	-18.43	5.63	30	46.47	46.86

Passive test data

Direction of figure(2.4G)



Passive test data

GAIN&Efficiency-WIFI 5G

Passive Test For WIF15G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	25.11	-6.76	0.04	-2.11	9.077	12.031	0.04	-16.48	6.8	0	49.82	49.4
5170	24.43	-6.69	-0.2	-2.35	9.191	12.242	-0.2	-16.23	6.49	0	50.13	49.77
5190	24.3	-6.14	0.19	-1.96	10.361	13.936	0.19	-17.2	6.34	0	50.42	49.95
5210	27.04	-5.68	0.3	-1.85	11.545	15.5	0.3	-16.34	5.98	0	50.88	50.49
5230	26.21	-5.82	-0.23	-2.38	11.264	14.944	-0.23	-16.97	5.59	0	50.42	50.08
5250	31.41	-5.03	0.38	-1.77	13.443	17.967	0.38	-15.48	5.41	0	51.02	50.72
5270	29.08	-5.36	0.06	-2.09	12.302	16.776	0.06	-16.93	5.42	0	50.85	50.6
5290	34.22	-4.66	0.76	-1.39	14.472	19.753	0.76	-17.18	5.42	0	51.34	51.12
5310	29.31	-5.33	0.15	-2	12.567	16.74	0.15	-17.53	5.48	0	50.44	50.36
5330	31.43	-5.03	0.44	-1.71	13.688	17.744	0.44	-16.88	5.47	0	51.08	51.01
5350	31.37	-5.04	0.52	-1.63	13.524	17.842	0.52	-17.48	5.56	0	51.02	51.01
5370	31.36	-5.04	0.58	-1.57	13.398	17.961	0.58	-17.06	5.62	0	50.91	50.95
5390	30.26	-5.19	0.5	-1.65	13.076	17.181	0.5	-17.25	5.69	0	50.46	50.43
5410	37.91	-4.21	1.61	-0.54	16.566	21.348	1.61	-15.84	5.83	0	51.18	51.09
5430	36.38	-4.39	1.57	-0.58	15.742	20.634	1.57	-16.05	5.96	60	50.69	50.7
5450	39.65	-4.02	2.16	0.01	16.874	22.78	2.16	-14.66	6.17	60	50.71	50.85
5470	37.19	-4.3	2.11	-0.04	15.797	21.392	2.11	-14.52	6.41	60	50.93	50.83
5490	37.61	-4.25	2.24	0.09	15.986	21.621	2.24	-14.84	6.49	60	50.92	50.79
5510	40.98	-3.87	2.61	0.46	17.181	23.799	2.61	-15.44	6.49	60	51.18	51.16
5530	41.49	-3.82	2.43	0.28	17.056	24.429	2.43	-15.04	6.25	60	51.44	51.3
5550	45.26	-3.44	3.12	0.97	18.62	26.64	3.12	-14.79	6.57	30	51.89	51.76
5570	40.83	-3.89	3.15	1	17.006	23.825	3.15	-15.12	7.04	30	51.42	51.33
5590	46.26	-3.35	3.8	1.65	19.36	26.903	3.8	-13.78	7.15	30	51.71	51.76
5610	39.42	-4.04	3.27	1.12	16.693	22.729	3.27	-16.39	7.31	30	51.17	51.22
5630	46.67	-3.31	4.21	2.06	20.127	26.547	4.21	-16.83	7.52	30	51.78	51.77
5650	36.14	-4.42	3.3	1.15	16.05	20.093	3.3	-16.96	7.72	30	51.47	51.55
5670	47.48	-3.23	4.58	2.43	21.251	26.229	4.58	-16.19	7.81	60	52.12	52.28
5690	34	-4.69	3.08	0.93	15.378	18.619	3.08	-20.07	7.77	60	52.12	52.25
5710	44.45	-3.52	4.3	2.15	20.597	23.851	4.3	-21.02	7.82	60	51.95	52.05
5730	39.53	-4.03	3.93	1.78	18.781	20.747	3.93	-18.34	7.96	60	51.59	51.69
5750	38.68	-4.13	3.91	1.76	18.587	20.089	3.91	-17.32	8.04	60	51.12	51.15
5770	39.77	-4	3.94	1.79	19.208	20.561	3.94	-17.86	7.94	60	51.02	51.06
5790	37.46	-4.26	3.52	1.37	18.203	19.261	3.52	-18.77	7.78	0	51.08	51.16
5810	39.98	-3.98	3.81	1.66	19.742	20.233	3.81	-17.26	7.79	0	51.36	51.43
5830	42.21	-3.75	4.15	2	21.098	21.111	4.15	-15.48	7.9	0	51.65	51.66
5850	46.34	-3.34	4.48	2.33	23.163	23.178	4.48	-14.73	7.82	0	51.88	52.05

Passive test data

Direction of figure(5G)

