



Shenzhen Yishengbang Technology Co., Ltd

Antenna Test Report

Project: K15SRA

Product: WIFI

Report date: 2025-5-23

Purpose

This report is to measure the performance of SLK for Master Antenna on迈迪杰. All measure data are showed below.

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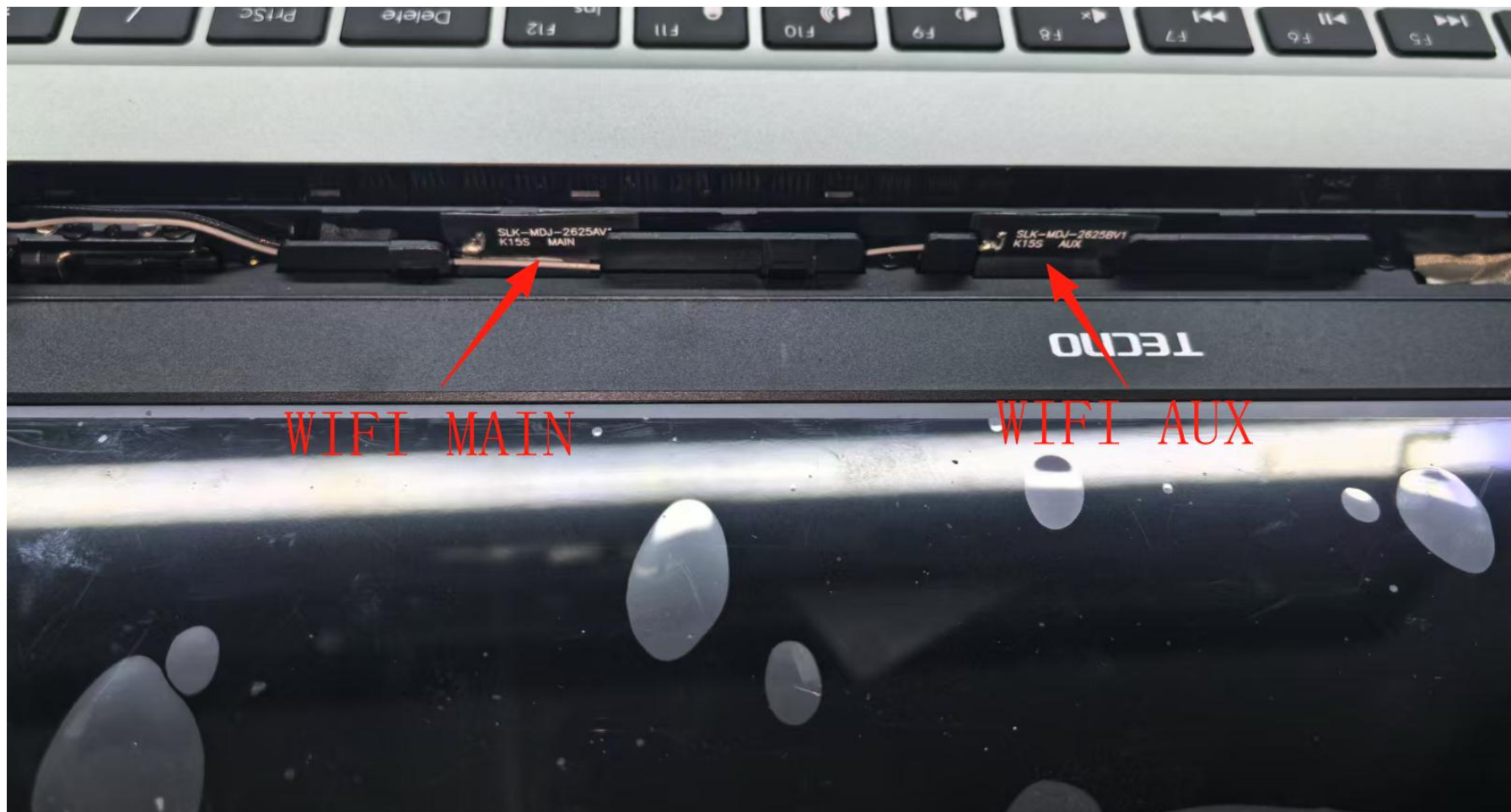
2.4 WIFI AUX Antenna Gain/Efficiency/3D DATA

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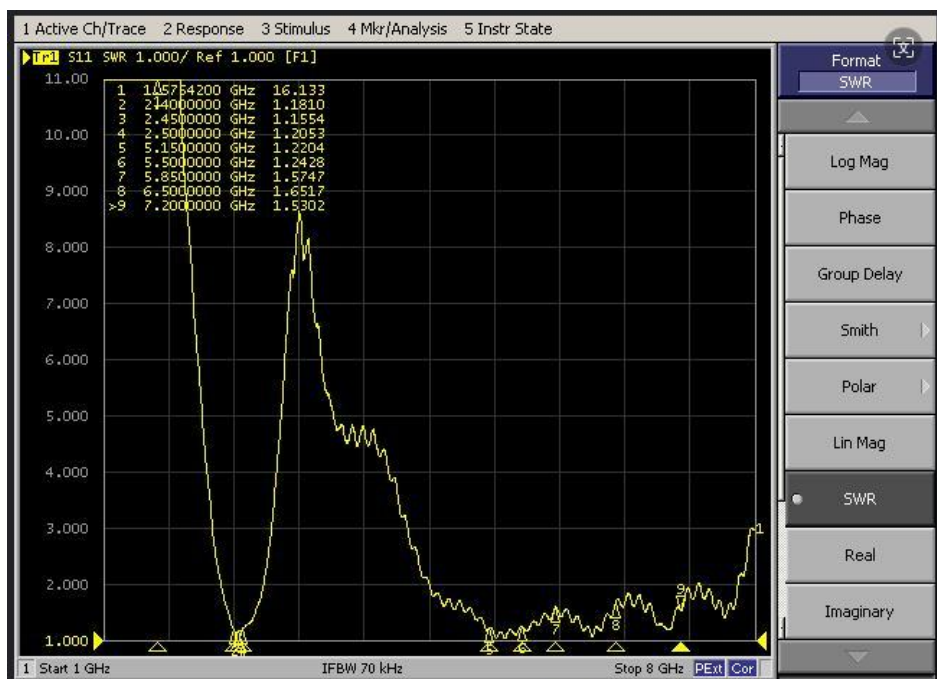
3. Conclusions

1. Product Overview



2. Test Result

2.1 WIFI MAIN Antenna VSWR/S11



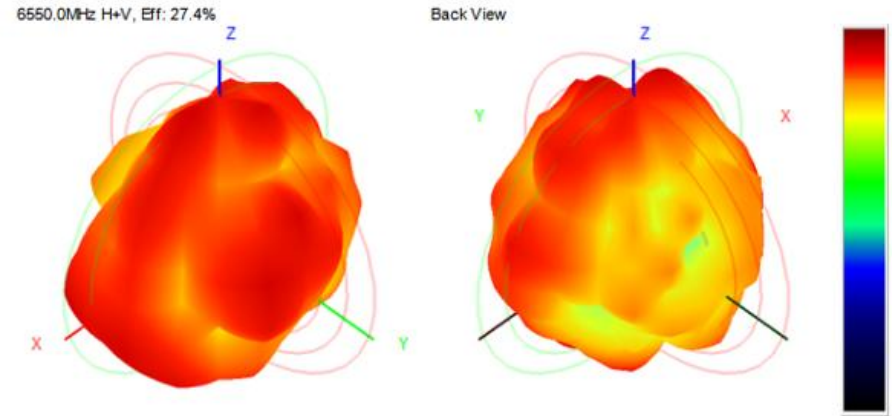
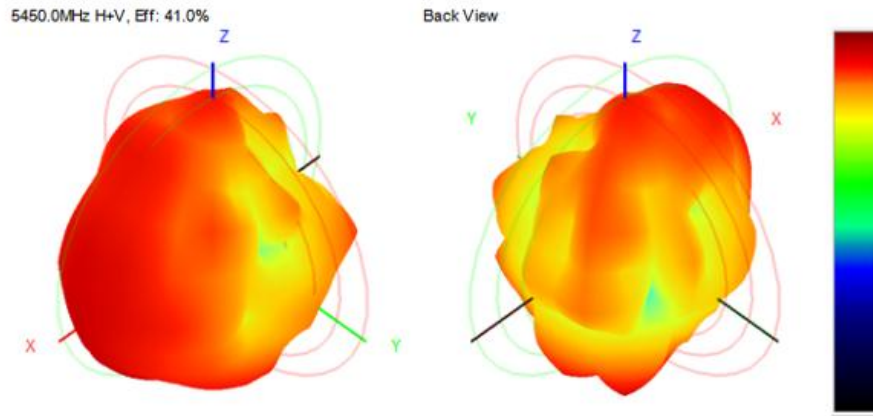
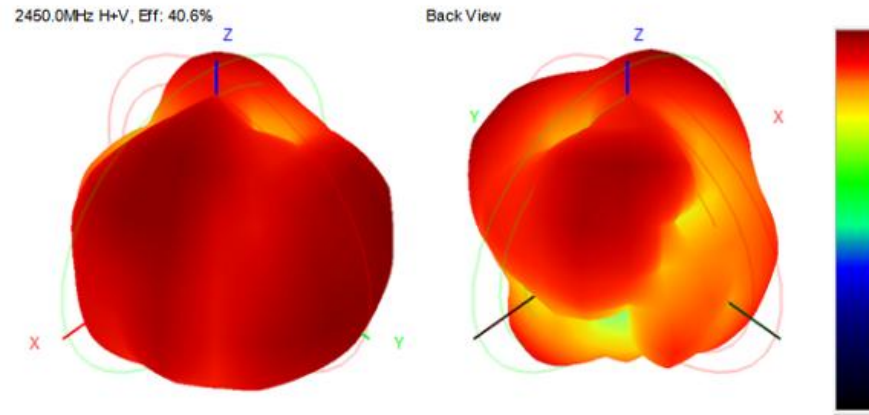
2. Test Result

2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-5.65	1.00	37.22	5650	-4.43	2.86	36.07
2410	-5.50	1.11	38.20	5750	-4.36	2.31	36.68
2420	-5.03	1.42	41.39	5850	-4.52	2.86	35.35
2430	-5.13	1.10	40.66	5950	-4.02	2.14	39.61
2440	-5.09	1.06	40.96	6050	-3.98	2.94	40.00
2450	-5.14	1.15	40.64	6150	-4.50	2.56	35.46
2460	-4.84	1.06	42.78	6250	-4.69	2.97	33.97
2470	-5.05	1.10	41.26	6350	-4.70	2.63	33.91
2480	-4.94	1.13	42.03	6450	-5.31	2.13	29.44
2490	-4.87	1.09	42.59	6550	-5.62	2.78	27.42
2500	-4.87	1.49	42.62	6650	-5.71	2.68	26.87
5150	-4.53	2.53	35.20	6750	-6.15	2.05	24.25
5250	-4.47	2.79	35.69	6850	-5.50	2.36	28.19
5350	-4.00	2.78	39.81	6950	-5.51	2.28	28.13
5450	-3.87	2.85	41.01	7050	-5.24	2.17	29.94
5550	-4.32	2.18	36.96	7150	-5.59	2.14	27.58

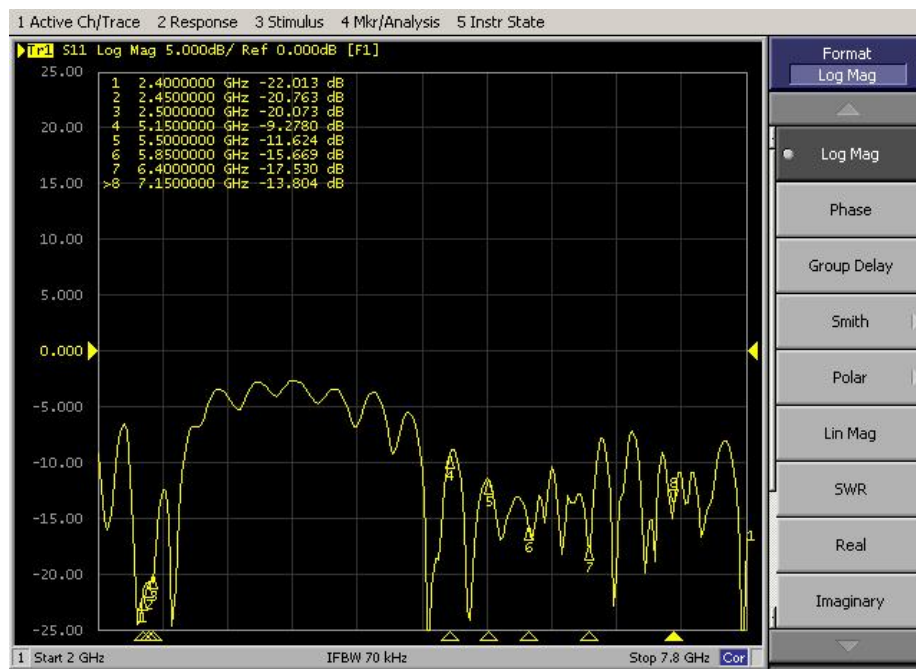
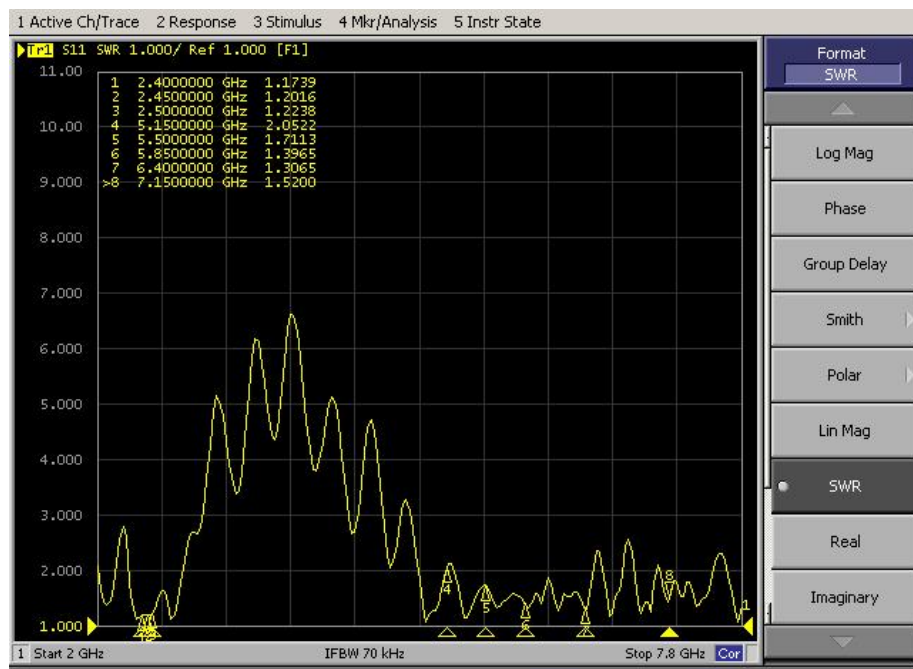
2. Test Result

2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA



2. Test Result

2.3 WIFI AUX Antenna VSWR/S11



2. Test Result

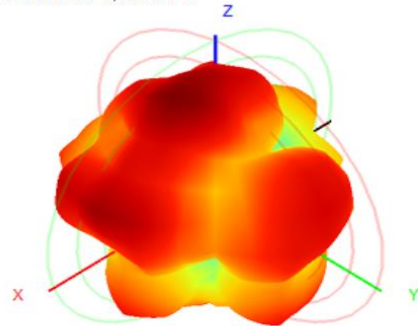
2.4 WIFI AUX Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.96	1.88	40.14	5650	-3.62	1.41	43.36
2410	-3.87	1.96	40.94	5750	-3.64	1.39	43.18
2420	-3.82	1.38	41.40	5850	-3.72	2.28	42.44
2430	-3.81	1.62	41.52	5950	-3.76	2.67	42.10
2440	-3.85	1.69	41.17	6050	-3.51	2.13	44.59
2450	-3.59	1.81	43.70	6150	-4.40	2.31	36.33
2460	-3.59	1.15	43.75	6250	-4.68	2.73	34.02
2470	-3.75	1.71	42.14	6350	-4.95	2.13	32.01
2480	-3.51	1.89	44.55	6450	-5.34	2.31	29.21
2490	-3.42	1.91	45.46	6550	-5.55	2.00	27.87
2500	-3.49	1.55	44.75	6650	-5.54	2.22	27.93
5150	-3.86	1.22	41.05	6750	-5.28	2.39	29.66
5250	-3.89	1.62	40.75	6850	-4.79	2.58	33.16
5350	-3.84	1.98	41.27	6950	-5.20	2.23	30.19
5450	-3.70	1.99	42.56	7050	-5.30	2.04	29.52
5550	-3.79	1.36	41.74	7150	-5.86	2.28	25.96

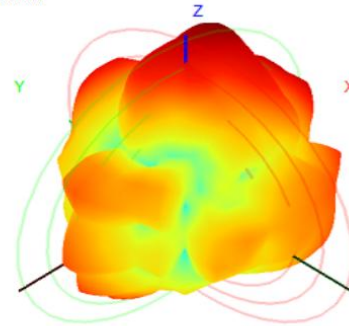
2. Test Result

2.4 WIFI AUX Antenna Gain/Efficiency/3D DATA

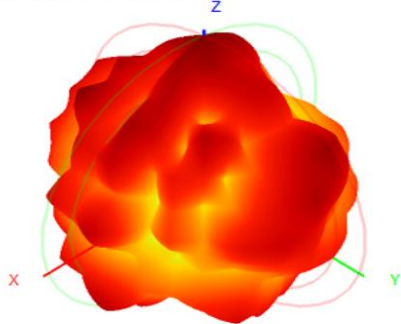
2450.0MHz H+V, Eff. 43.7%



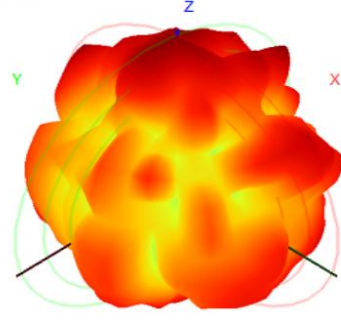
Back View



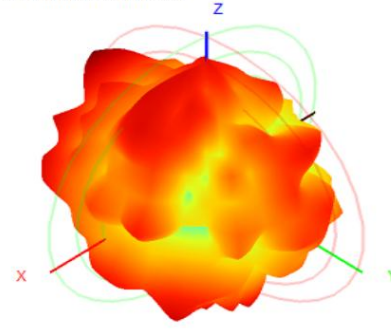
5450.0MHz H+V, Eff. 42.6%



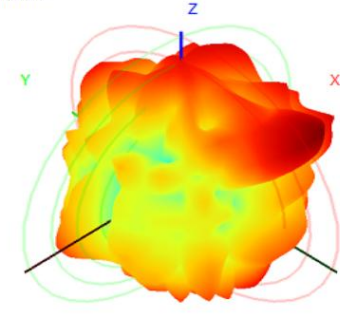
Back View



6550.0MHz H+V, Eff. 27.9%



Back View



2. Test Result

2.5 WIFI active test

WIFI active test			
frequency band	1	6	11
B-TRP-11Mbps	12.54	12.83	12.67
B-TIS-11Mbps	-74.67	-76.22	-75.18
G-TRP-54Mbps	11.28	12.06	11.85
G-TIS-54Mbps	-68.79	-69.33	-69.51
N-TRP-MCS7	10.69	12.00	11.73
N-TIS-MCS7	-63.88	-64.89	-64.91
frequency band	36	149	165
A-TRP-54Mbps	12.65	12.83	12.40
A-TIS-54Mbps	-70.69	-70.18	-71.22
AC-TRP-MCS7	11.52	12.09	12.44
AC-TIS-MCS7	-69.75	-68.87	-69.05
AX-TRP-MCS0	11.82	12.09	11.56
AX-TIS-MCS0	-70.15	-70.00	-69.83

2. Test Result

2.6 WIFI throughput test

6]	28.00-29.00	sec	10.4 MBytes	87.1 Mbits/sec
8]	28.00-29.00	sec	10.1 MBytes	85.0 Mbits/sec
10]	28.00-29.00	sec	9.25 MBytes	77.6 Mbits/sec
12]	28.00-29.00	sec	8.85 MBytes	74.3 Mbits/sec
[SUM]	28.00-29.00	sec	51.0 MBytes	428 Mbits/sec

[4]	29.00-30.00	sec	12.1 MBytes	102 Mbits/sec
[6]	29.00-30.00	sec	10.4 MBytes	87.0 Mbits/sec
[8]	29.00-30.00	sec	10.5 MBytes	88.1 Mbits/sec
[10]	29.00-30.00	sec	9.13 MBytes	76.6 Mbits/sec
[12]	29.00-30.00	sec	8.30 MBytes	69.6 Mbits/sec
[SUM]	29.00-30.00	sec	50.4 MBytes	423 Mbits/sec

[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	361 MBytes	101 Mbits/sec
[4]	0.00-30.00	sec	361 MBytes	101 Mbits/sec
[6]	0.00-30.00	sec	320 MBytes	89.3 Mbits/sec
[6]	0.00-30.00	sec	319 MBytes	89.3 Mbits/sec
[8]	0.00-30.00	sec	294 MBytes	82.1 Mbits/sec
[8]	0.00-30.00	sec	294 MBytes	82.1 Mbits/sec
[10]	0.00-30.00	sec	280 MBytes	78.3 Mbits/sec
[10]	0.00-30.00	sec	280 MBytes	78.3 Mbits/sec
[12]	0.00-30.00	sec	262 MBytes	73.2 Mbits/sec
[12]	0.00-30.00	sec	262 MBytes	73.2 Mbits/sec
[SUM]	0.00-30.00	sec	1.48 GBytes	424 Mbits/sec
[SUM]	0.00-30.00	sec	1.48 GBytes	424 Mbits/sec

iperf Done.

6]	28.00-29.00	sec	10.9 MBytes	91.4 Mbits/sec
8]	28.00-29.00	sec	10.6 MBytes	89.3 Mbits/sec
10]	28.00-29.00	sec	10.6 MBytes	89.3 Mbits/sec
12]	28.00-29.00	sec	10.5 MBytes	88.2 Mbits/sec
UM]	28.00-29.00	sec	53.6 MBytes	451 Mbits/sec

4]	29.00-30.00	sec	11.1 MBytes	93.1 Mbits/sec
6]	29.00-30.00	sec	11.2 MBytes	94.2 Mbits/sec
8]	29.00-30.00	sec	11.1 MBytes	93.1 Mbits/sec
10]	29.00-30.00	sec	10.9 MBytes	91.0 Mbits/sec
12]	29.00-30.00	sec	10.5 MBytes	87.9 Mbits/sec
UM]	29.00-30.00	sec	54.9 MBytes	459 Mbits/sec

ID]	Interval		Transfer	Bandwidth
4]	0.00-30.00	sec	354 MBytes	98.9 Mbits/sec
4]	0.00-30.00	sec	354 MBytes	98.9 Mbits/sec
6]	0.00-30.00	sec	351 MBytes	98.1 Mbits/sec
6]	0.00-30.00	sec	351 MBytes	98.1 Mbits/sec
8]	0.00-30.00	sec	298 MBytes	83.4 Mbits/sec
8]	0.00-30.00	sec	298 MBytes	83.4 Mbits/sec
10]	0.00-30.00	sec	292 MBytes	81.7 Mbits/sec
10]	0.00-30.00	sec	292 MBytes	81.7 Mbits/sec
12]	0.00-30.00	sec	294 MBytes	82.1 Mbits/sec
12]	0.00-30.00	sec	294 MBytes	82.1 Mbits/sec
SUM]	0.00-30.00	sec	1.55 GBytes	444 Mbits/sec
SUM]	0.00-30.00	sec	1.55 GBytes	444 Mbits/sec

2.4G throughput upload **424M**

2.4G throughput download **444M**

2. Test Result

2.6 WIFI throughput test

```
10] 29.00-30.00 sec 14.0 MBytes 118 Mbits/sec
12] 29.00-30.00 sec 13.5 MBytes 113 Mbits/sec
14] 29.00-30.00 sec 13.0 MBytes 109 Mbits/sec
16] 29.00-30.00 sec 11.8 MBytes 99.1 Mbits/sec
18] 29.00-30.00 sec 10.8 MBytes 90.2 Mbits/sec
SUM] 29.00-30.00 sec 106 MBytes 889 Mbits/sec
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ID] Interval Transfer Bandwidth
4] 0.00-30.00 sec 448 MBytes 125 Mbits/sec
4] 0.00-30.00 sec 448 MBytes 125 Mbits/sec
6] 0.00-30.00 sec 433 MBytes 121 Mbits/sec
6] 0.00-30.00 sec 433 MBytes 121 Mbits/sec
8] 0.00-30.00 sec 431 MBytes 120 Mbits/sec
8] 0.00-30.00 sec 431 MBytes 120 Mbits/sec
10] 0.00-30.00 sec 420 MBytes 117 Mbits/sec
10] 0.00-30.00 sec 420 MBytes 117 Mbits/sec
12] 0.00-30.00 sec 403 MBytes 113 Mbits/sec
12] 0.00-30.00 sec 403 MBytes 113 Mbits/sec
14] 0.00-30.00 sec 383 MBytes 107 Mbits/sec
14] 0.00-30.00 sec 383 MBytes 107 Mbits/sec
16] 0.00-30.00 sec 357 MBytes 99.8 Mbits/sec
16] 0.00-30.00 sec 357 MBytes 99.8 Mbits/sec
18] 0.00-30.00 sec 335 MBytes 93.7 Mbits/sec
18] 0.00-30.00 sec 335 MBytes 93.7 Mbits/sec
SUM] 0.00-30.00 sec 3.14 GBytes 898 Mbits/sec
SUM] 0.00-30.00 sec 3.14 GBytes 898 Mbits/sec
```

```
0] 29.01-30.00 sec 13.8 MBytes 116 Mbits/sec
2] 29.01-30.00 sec 13.6 MBytes 115 Mbits/sec
4] 29.01-30.00 sec 13.6 MBytes 115 Mbits/sec
6] 29.01-30.00 sec 13.4 MBytes 113 Mbits/sec
8] 29.01-30.00 sec 13.2 MBytes 112 Mbits/sec
SUM] 29.01-30.00 sec 110 MBytes 933 Mbits/sec
```

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ID] Interval Transfer Bandwidth
4] 0.00-30.00 sec 456 MBytes 127 Mbits/sec
4] 0.00-30.00 sec 456 MBytes 127 Mbits/sec
6] 0.00-30.00 sec 445 MBytes 124 Mbits/sec
6] 0.00-30.00 sec 445 MBytes 124 Mbits/sec
8] 0.00-30.00 sec 443 MBytes 124 Mbits/sec
8] 0.00-30.00 sec 443 MBytes 124 Mbits/sec
10] 0.00-30.00 sec 442 MBytes 124 Mbits/sec
10] 0.00-30.00 sec 442 MBytes 124 Mbits/sec
12] 0.00-30.00 sec 438 MBytes 122 Mbits/sec
12] 0.00-30.00 sec 438 MBytes 122 Mbits/sec
14] 0.00-30.00 sec 429 MBytes 120 Mbits/sec
14] 0.00-30.00 sec 429 MBytes 120 Mbits/sec
16] 0.00-30.00 sec 335 MBytes 93.8 Mbits/sec
16] 0.00-30.00 sec 335 MBytes 93.8 Mbits/sec
18] 0.00-30.00 sec 323 MBytes 90.3 Mbits/sec
18] 0.00-30.00 sec 323 MBytes 90.3 Mbits/sec
SUM] 0.00-30.00 sec 3.23 GBytes 926 Mbits/sec
SUM] 0.00-30.00 sec 3.23 GBytes 926 Mbits/sec
```

5G throughput upload **824M**

5G throughput download **926M**

2. Test Result

2.6 BT throughput test

[380]	4.0- 5.0 sec	168 KBytes	1.38 Mbits/sec
[380]	5.0- 6.0 sec	168 KBytes	1.38 Mbits/sec
[380]	6.0- 7.0 sec	176 KBytes	1.44 Mbits/sec
[380]	7.0- 8.0 sec	168 KBytes	1.38 Mbits/sec
[380]	8.0- 9.0 sec	176 KBytes	1.44 Mbits/sec
[380]	9.0-10.0 sec	168 KBytes	1.38 Mbits/sec
[380]	10.0-11.0 sec	168 KBytes	1.38 Mbits/sec
[380]	11.0-12.0 sec	168 KBytes	1.38 Mbits/sec
[380]	12.0-13.0 sec	168 KBytes	1.38 Mbits/sec
[380]	13.0-14.0 sec	160 KBytes	1.31 Mbits/sec
[380]	14.0-15.0 sec	168 KBytes	1.38 Mbits/sec
[380]	15.0-16.0 sec	168 KBytes	1.38 Mbits/sec
[380]	16.0-17.0 sec	160 KBytes	1.31 Mbits/sec
[380]	17.0-18.0 sec	160 KBytes	1.31 Mbits/sec
[380]	18.0-19.0 sec	184 KBytes	1.51 Mbits/sec
[380]	19.0-20.0 sec	160 KBytes	1.31 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[380]	20.0-21.0 sec	168 KBytes	1.38 Mbits/sec
[380]	21.0-22.0 sec	168 KBytes	1.38 Mbits/sec
[380]	22.0-23.0 sec	168 KBytes	1.38 Mbits/sec
[380]	23.0-24.0 sec	160 KBytes	1.31 Mbits/sec
[380]	24.0-25.0 sec	168 KBytes	1.38 Mbits/sec
[380]	25.0-26.0 sec	168 KBytes	1.38 Mbits/sec
[380]	26.0-27.0 sec	168 KBytes	1.38 Mbits/sec
[380]	27.0-28.0 sec	168 KBytes	1.38 Mbits/sec
[380]	28.0-29.0 sec	160 KBytes	1.31 Mbits/sec
[380]	29.0-30.0 sec	168 KBytes	1.38 Mbits/sec
[380]	0.0-36.1 sec	5.86 MBytes	1.36 Mbits/sec

[276]	5.0- 6.0 sec	184 KBytes	1.51 Mbits/sec
[276]	6.0- 7.0 sec	200 KBytes	1.64 Mbits/sec
[276]	7.0- 8.0 sec	184 KBytes	1.51 Mbits/sec
[276]	8.0- 9.0 sec	184 KBytes	1.51 Mbits/sec
[276]	9.0-10.0 sec	200 KBytes	1.64 Mbits/sec
[276]	10.0-11.0 sec	184 KBytes	1.51 Mbits/sec
[276]	11.0-12.0 sec	192 KBytes	1.57 Mbits/sec
[276]	12.0-13.0 sec	192 KBytes	1.57 Mbits/sec
[276]	13.0-14.0 sec	176 KBytes	1.44 Mbits/sec
[276]	14.0-15.0 sec	184 KBytes	1.51 Mbits/sec
[276]	15.0-16.0 sec	184 KBytes	1.51 Mbits/sec
[276]	16.0-17.0 sec	192 KBytes	1.57 Mbits/sec
[276]	17.0-18.0 sec	184 KBytes	1.51 Mbits/sec
[276]	18.0-19.0 sec	184 KBytes	1.51 Mbits/sec
[276]	19.0-20.0 sec	200 KBytes	1.64 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[276]	20.0-21.0 sec	184 KBytes	1.51 Mbits/sec
[276]	21.0-22.0 sec	192 KBytes	1.57 Mbits/sec
[276]	22.0-23.0 sec	200 KBytes	1.64 Mbits/sec
[276]	23.0-24.0 sec	184 KBytes	1.51 Mbits/sec
[276]	24.0-25.0 sec	184 KBytes	1.51 Mbits/sec
[276]	25.0-26.0 sec	200 KBytes	1.64 Mbits/sec
[276]	26.0-27.0 sec	184 KBytes	1.51 Mbits/sec
[276]	27.0-28.0 sec	184 KBytes	1.51 Mbits/sec
[276]	28.0-29.0 sec	184 KBytes	1.51 Mbits/sec
[276]	29.0-30.0 sec	192 KBytes	1.57 Mbits/sec
[276]	0.0-35.7 sec	6.45 MBytes	1.51 Mbits/sec

BT throughput upload **1.36M**

BT throughput download **1.59M**



3. Conclusions

thanks