

GLOBAL EAST ASIA(Hong Kong) TECHNOLOGY CO.,LTD

4xLTE\sub6GHz 5G
4xWIFI 2.4\5 GHz ANTENNA

TECHNICAL SPECIFICATION

P/N: GL060

Add: Room 816-818, Block B,BLDG 18, University Science Park(East), Zhengzhou
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1.Summarize

This report is for debugging the antenna 8 in 1,the working frequency is as below:

5G-1:698~960MHz,1710~2690MHz,3300~5000MHz;

5G(2/3/4):1710~2690,3300~5000MHz

WIFI :2400~2500MHz/5150~5850MHz

2.Product specification

Size	159*72*20.5mm
Weight	< 220gram
Housing	Black
Mounting	3M or Magnet
Connector	1. SMA (5G-1) 2. SMA (5G-2) 3. SMA (5G-3) 4. SMA (5G-4) 5. SMA (WIFI-1) 6. SMA (WIFI-2) 7. SMA (WIFI-3) 8. SMA (WIFI-4)
Cable	RG174 0.5meters*8

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3.Working condition

Temperature: -40°C ~ +85°C

Humidity: 95 % ~ 100 %

4.Storage condition

Temperature: -40°C ~ +85°C

Humidity: 95 % ~ 100 %

5.Waterproof performance

Water proofing grade: IP67

6.5G antenna performance

6.1.1 5G-1 antenna index

Item	Specifications
Frequency Range	806~960MHz/1710~2690MHz/3300 ~5850MHz (5G-1)
V.S.W.R (min)	< 3
Polarization	Linear
Gain	3dBi
Impedance	50Ω

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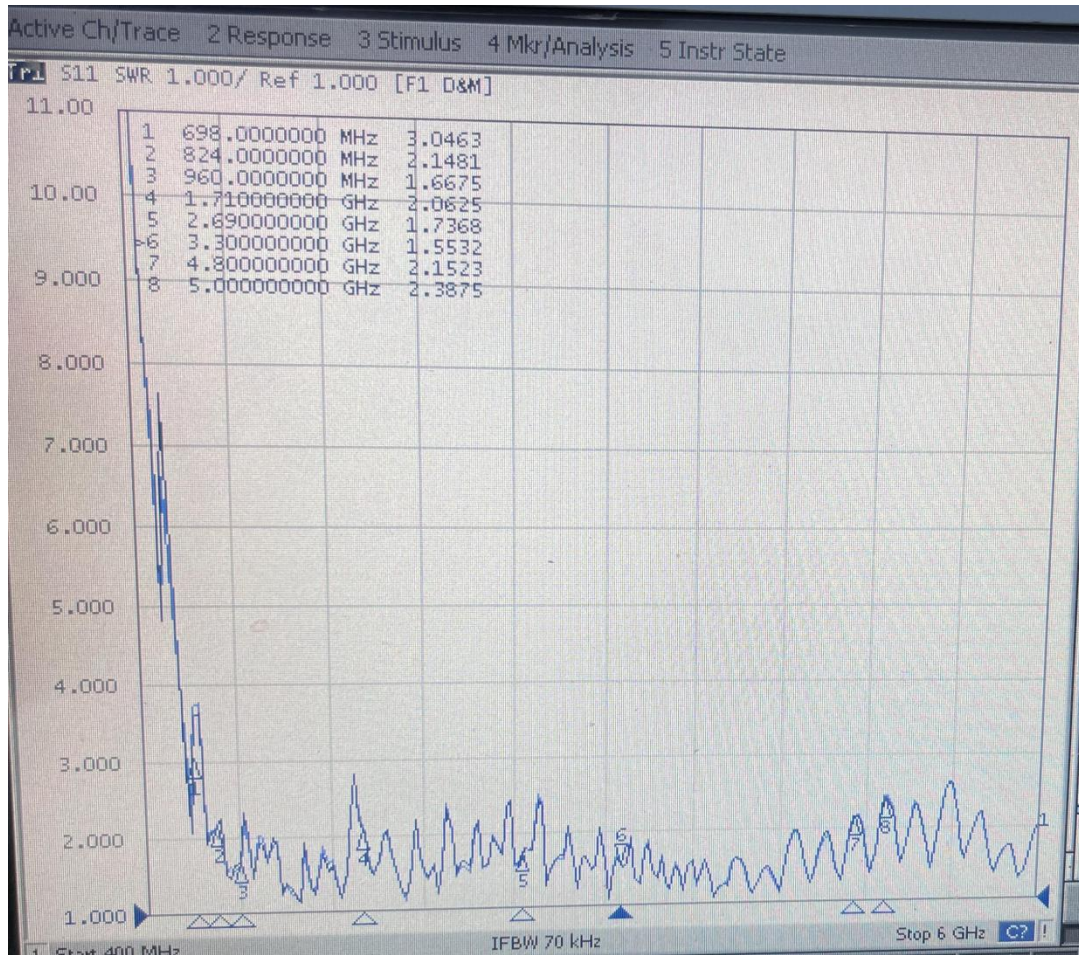
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6.1.2 5G-1 testing

6.1.2.1 S11 data-----5G-1



Frequency (工作频段)	698	824	960	1710	2690	3300	4800	5000
VSWR (驻波比)	3.0	2.14	1.66	2.06	1.73	1.55	2.15	2.38

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6.1.2.2 Efficiency and gain-----5G-1

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
698	40.12	2.44
824	56.92	1.71
960	48.45	2.51
1710	53.86	3.56
2170	40.75	3.77
2300	47.9	2.74
2690	44.45	2.35
3300	44.32	1.86
4800	44.47	1.56
5000	42.22	1.12

6.2.1 5G-2 antenna index

Item(Specifications
Frequency Range	1710~2690MHz/3300MHz~5850MHz (5G-2)
V.S.W.R (min)	< 3
Polarization	Linear
Gain	3dBi
Impedance	50Ω

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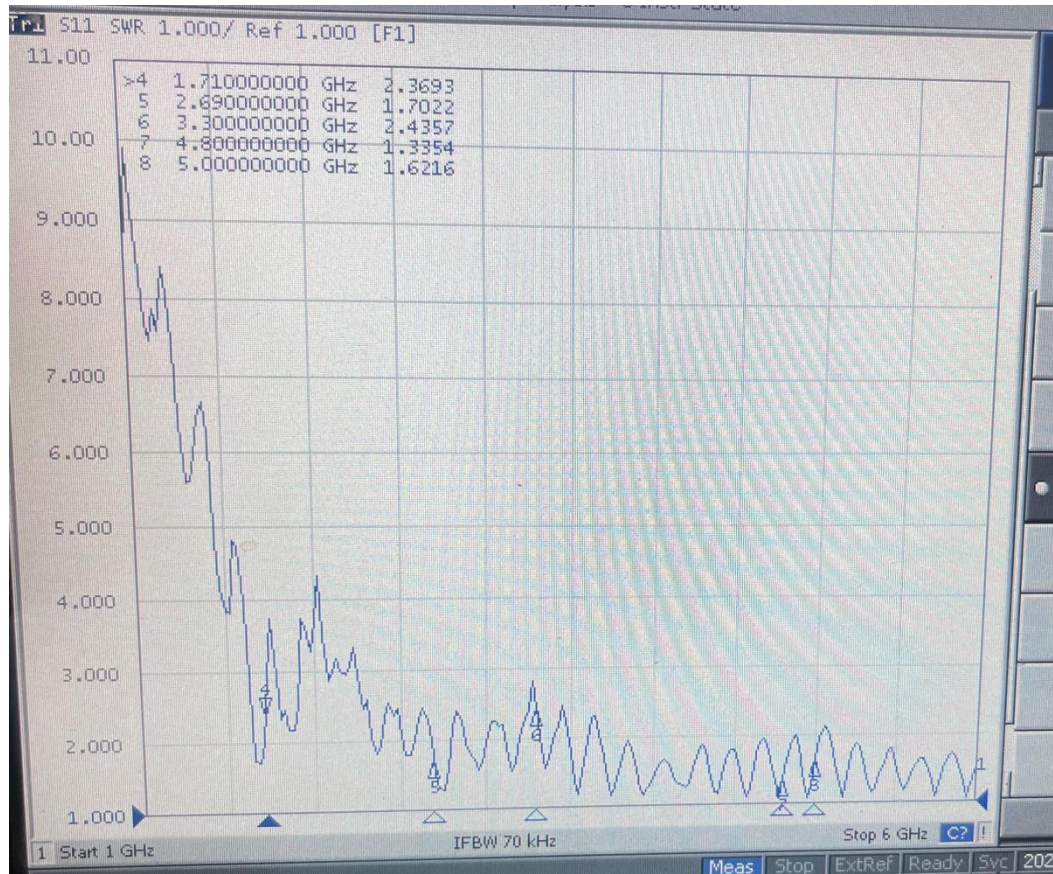
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6.2.2 5G-2 testing

6.2.2.1 S11 data-----5G-2



Frequency (工作频段)	1710	2690	3300	4800	5000
VSWR (驻波比)	2.36	1.70	2.43	1.33	1.62

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6.2.2.2 Efficiency and gain----5G-2

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
1710	45.24	2.32
2170	33.12	1.04
2300	43.06	1.40
2690	58.73	3.86
3300	45.99	3.54
4800	53.03	3.46
5000	54.61	3.88

6.3.1 5G-3 antenna index

Item	Specifications
Frequency Range	1710~2690MHz/3300MHz~5850MHz (5G-3)
V.S.W.R (min)	< 4
Polarization	Linear
Gain	2dBi
Impedance	50Ω

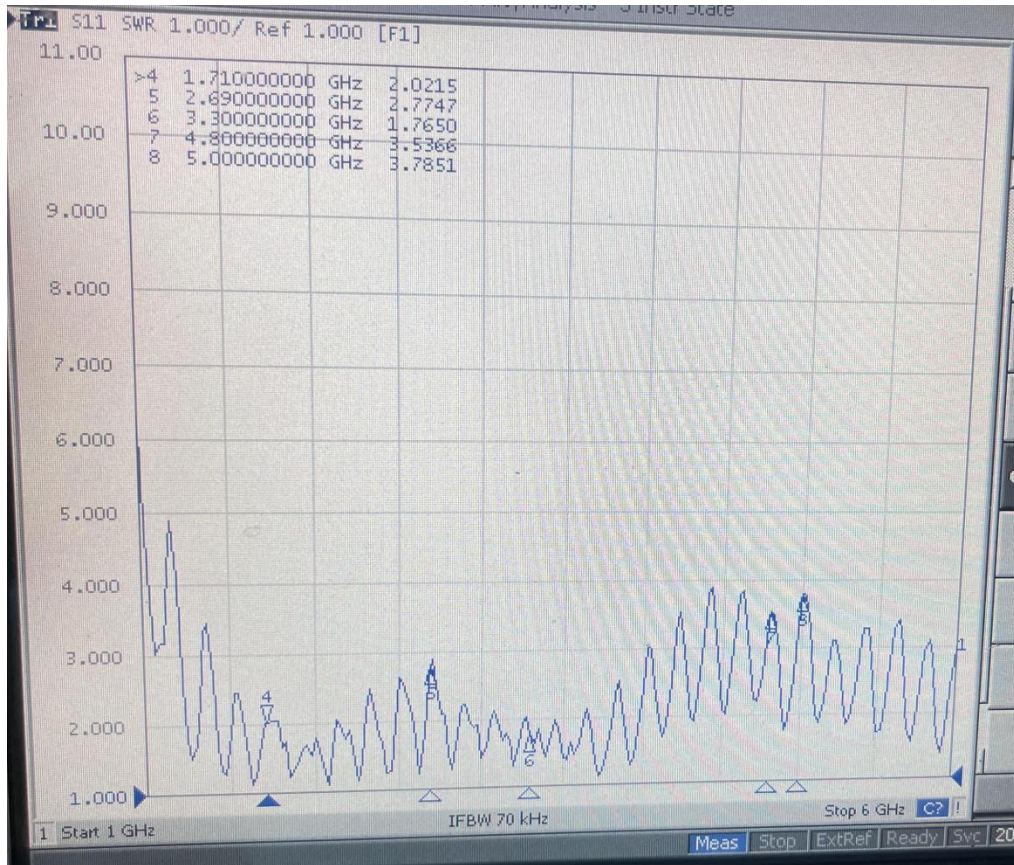
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6.3.2 5G-3 antenna index

6.3.2.1 S11 data-----5G-3



Frequency (工作频段)	1710	2690	3300	4800	5000
VSWR (驻波比)	2.0	2.77	1.76	3.53	3.78

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6.3.2.2 Efficiency and gain-----5G-3

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
1710	45.35	2.28
2170	44.63	1.26
2300	47.03	2.23
2690	33.59	2.33
3300	42.96	2.27
4800	30.56	2.17
5000	30.29	1.09

6.4.1 5G-4 antenna index

Item	Specifications
Frequency Range	1710~2690MHz/3300MHz~5850MHz (5G-4)
V.S.W.R (min)	< 4
Polarization	Linear
Gain	2dBi
Impedance	50Ω

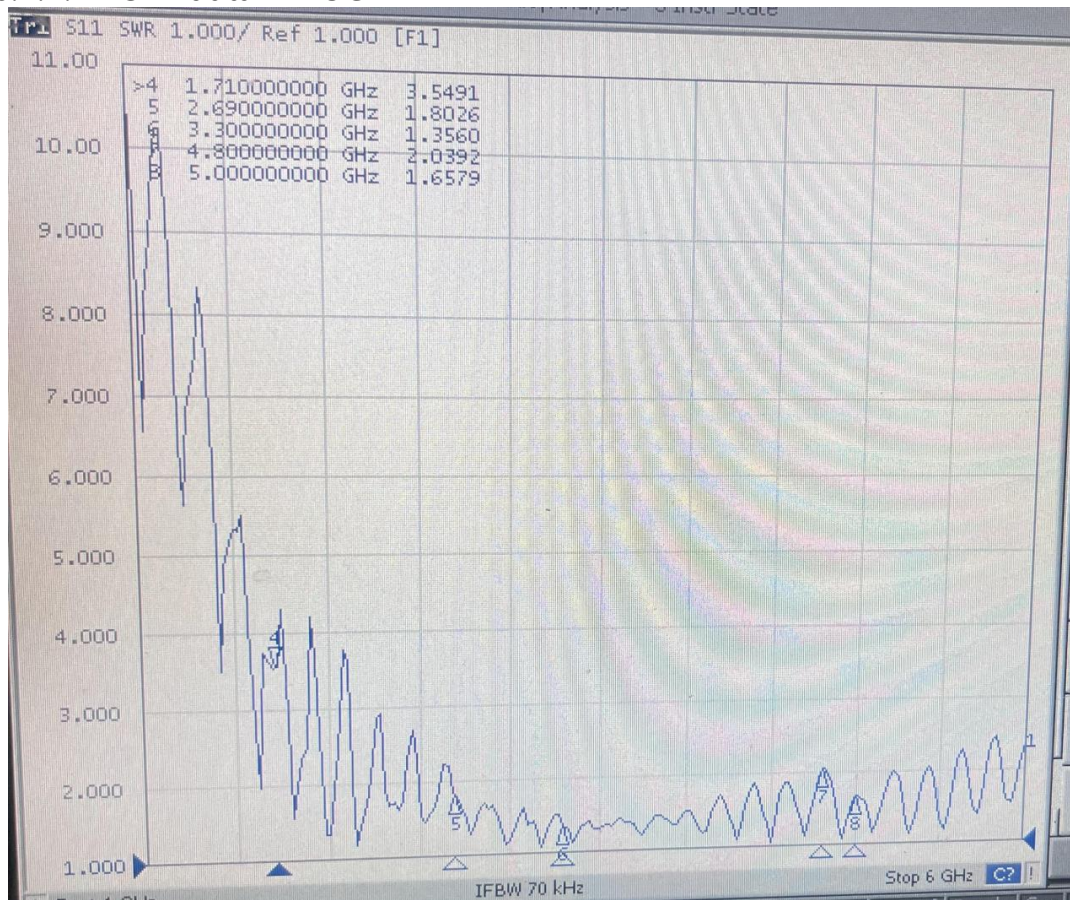
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6.4.2.1 S11 data-----5G-4



Frequency (工作频段)	1710	2690	3300	4800	5000
VSWR (驻波比)	3.54	1.80	1.35	2.0	1.65

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6.4.2.2 Efficiency and gain-----5G-4

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
1710	32.79	1.23
2170	48.65	1.84
2300	45.92	1.84
2690	52.16	1.64
3300	59.53	1.59
4800	40.42	1.45
5000	38.1	1.61

7.WIFI antenna performance

7.1.1 WIFI antenna index

Item	Specifications
Frequency Range	2400~2500MHz/5150~5850MHz (WIFI)
V.S.W.R (min)	< 3.5
Polarization	Linear
Gain	2dBi
Impedance	50Ω

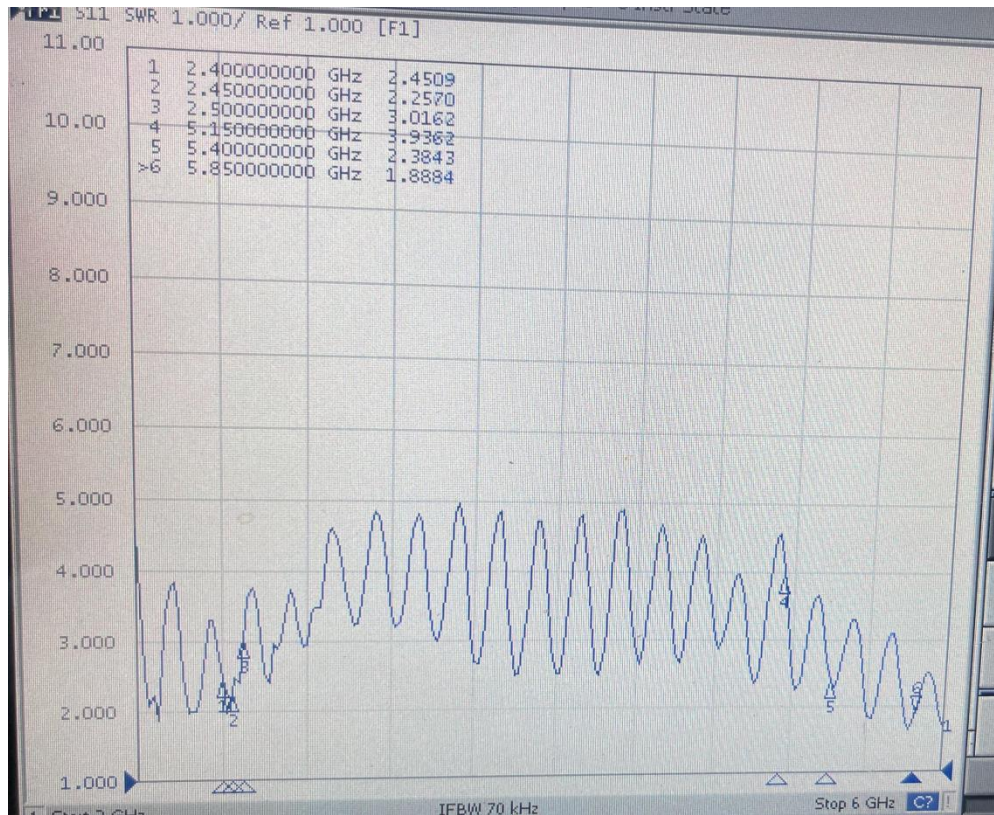
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7.1.2.1 S11 data-----5G-4



Frequency (工作频段)	2400	2450	2500	5150	5450	5850
VSWR (驻波比)	2.45	2.25	3.01	3.92	2.38	1.88

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7.1.2.2 Efficiency and gain-----WIFI

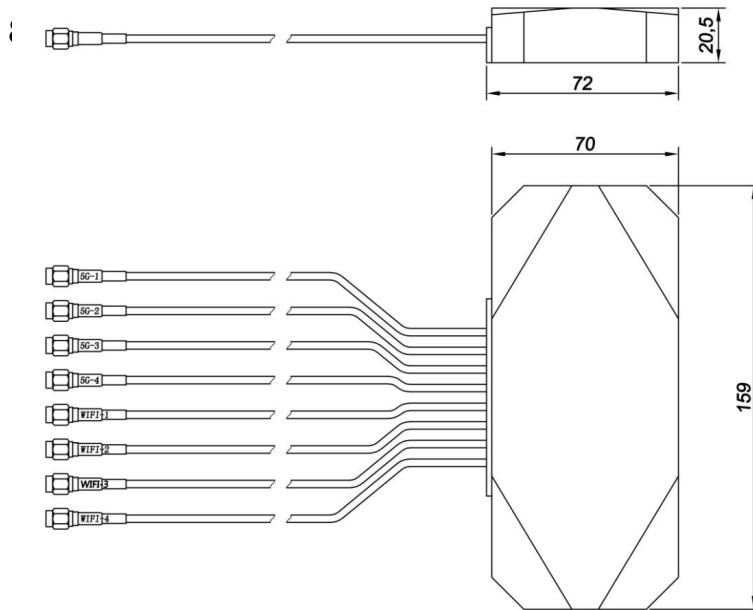
Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
2400	34.43	1.35
2450	34.12	1.24
2500	35.19	1.12
5150	21.97	0.56
5450	23.48	0.77
5850	33.48	1.73

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9.Product outline



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