

11.Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

2.Electrical Specification:

Those specifications were specially defined for **customer's** model, and all characteristics were measured under the model's handset testing jig .

2-1. Frequency Band:

Frequency Band	MHz
WIFI+GNSS	WIFI: 2400-2500/5150-5850 GNSS: 1561/1575.42

2-2. Impedance

50 ohm nominal

2-3.Waterproof grade

IP67

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TITLE = KC.CW.00163 RF Cable SMA JACK TO IPEX			SPEC REV. P0

2-4. VSWR

WIFI antenna

Frequency Band(MHz)	2400	2450	2500	5150	5850
Typical Value:	1.12	1.14	1.09	1.38	1.26

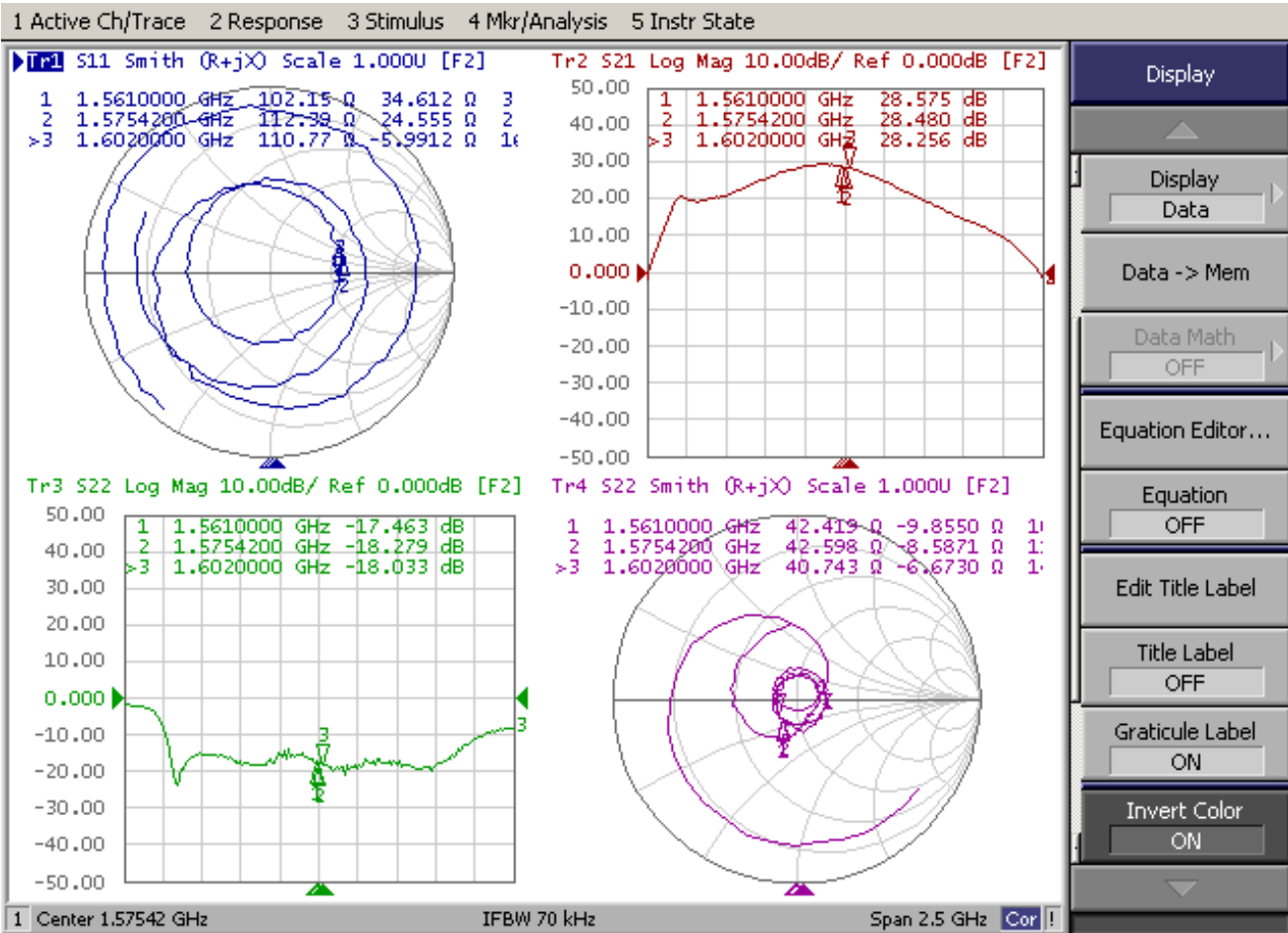
Measuring Method	1. A 50Ωcoaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm																				
Picture	1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State ▶[F1] S11 SWR 1.000/ Ref 1.000 [F1] <table><tr><td>1</td><td>2.4000000</td><td>GHz</td><td>1.1230</td></tr><tr><td>2</td><td>2.4500000</td><td>GHz</td><td>1.1492</td></tr><tr><td>3</td><td>2.5000000</td><td>GHz</td><td>1.0952</td></tr><tr><td>4</td><td>5.1500000</td><td>GHz</td><td>1.3841</td></tr><tr><td>>5</td><td>5.8500000</td><td>GHz</td><td>1.2679</td></tr></table> 1 Start 2 GHz IFBW 70 kHz Stop 6 GHz Cor Meas Stop ExtRef Ready Svc 2021-01-02	1	2.4000000	GHz	1.1230	2	2.4500000	GHz	1.1492	3	2.5000000	GHz	1.0952	4	5.1500000	GHz	1.3841	>5	5.8500000	GHz	1.2679
1	2.4000000	GHz	1.1230																		
2	2.4500000	GHz	1.1492																		
3	2.5000000	GHz	1.0952																		
4	5.1500000	GHz	1.3841																		
>5	5.8500000	GHz	1.2679																		

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2-4. VSWR

GNSS LNA

Characteristics	Specification
Frequency Range	1560MHz~1602MHz
Gain	28±3 dB
Noise Figure	2.0 dB typ
Output V.S.W.R	2.0 max
Operation Voltage	3.3~5 V
Current	10~25 mA



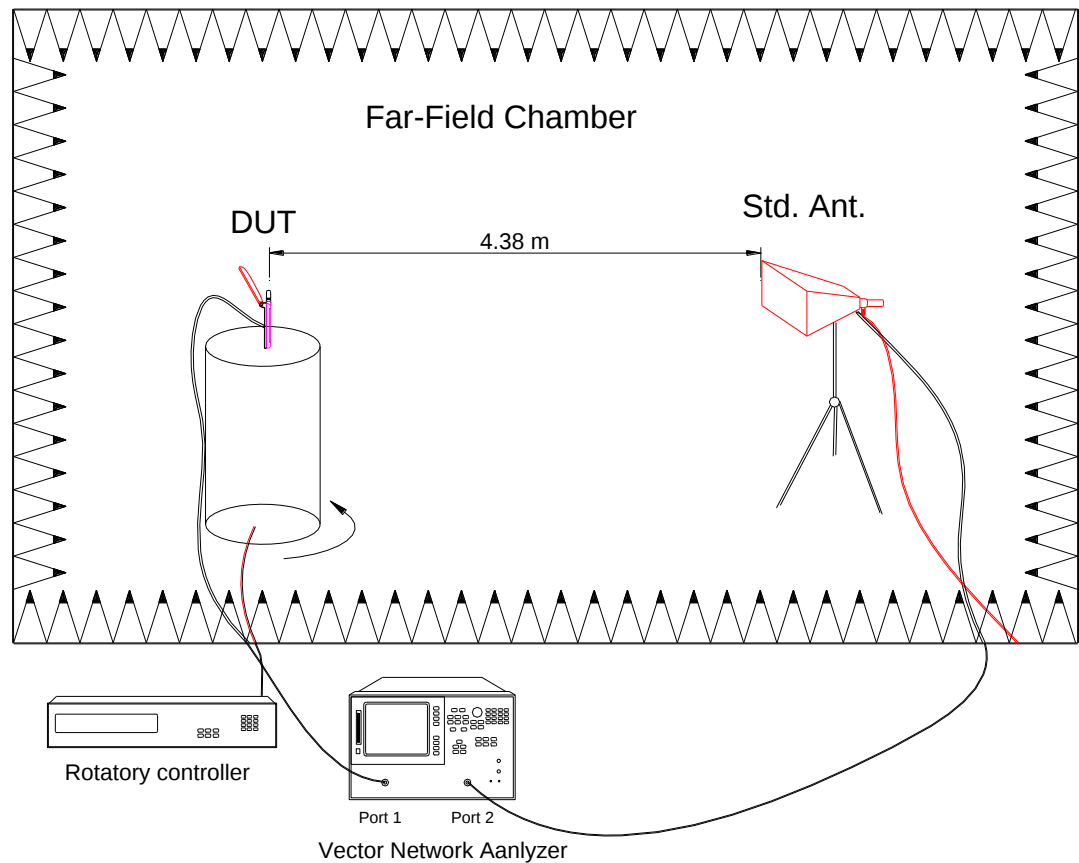
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2-5. Efficiency and Gain

2-5.1 Measure method

- 1. Using a low loss coaxial cable to link a standard handset jig
- 2. Fixed this handset jig on chamber's rotator plane
- 3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
- 4. Using another standard gain horn antenna to calibrated those data

2-5.2 Chamber definition



- 1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- 4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 600MHz ~6GHz)

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WIFI antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.63	-2.71	2.08
2410	62.64	-2.03	2.78
2420	55.73	-2.54	2.47
2430	59.36	-2.26	2.75
2440	56.36	-2.49	2.32
2450	53.75	-2.7	2.37
2460	55.24	-2.58	2.96
2470	54.06	-2.67	2.61
2480	53.42	-2.72	3.01
2490	54.55	-2.63	2.98
2500	48.68	-3.13	2.09

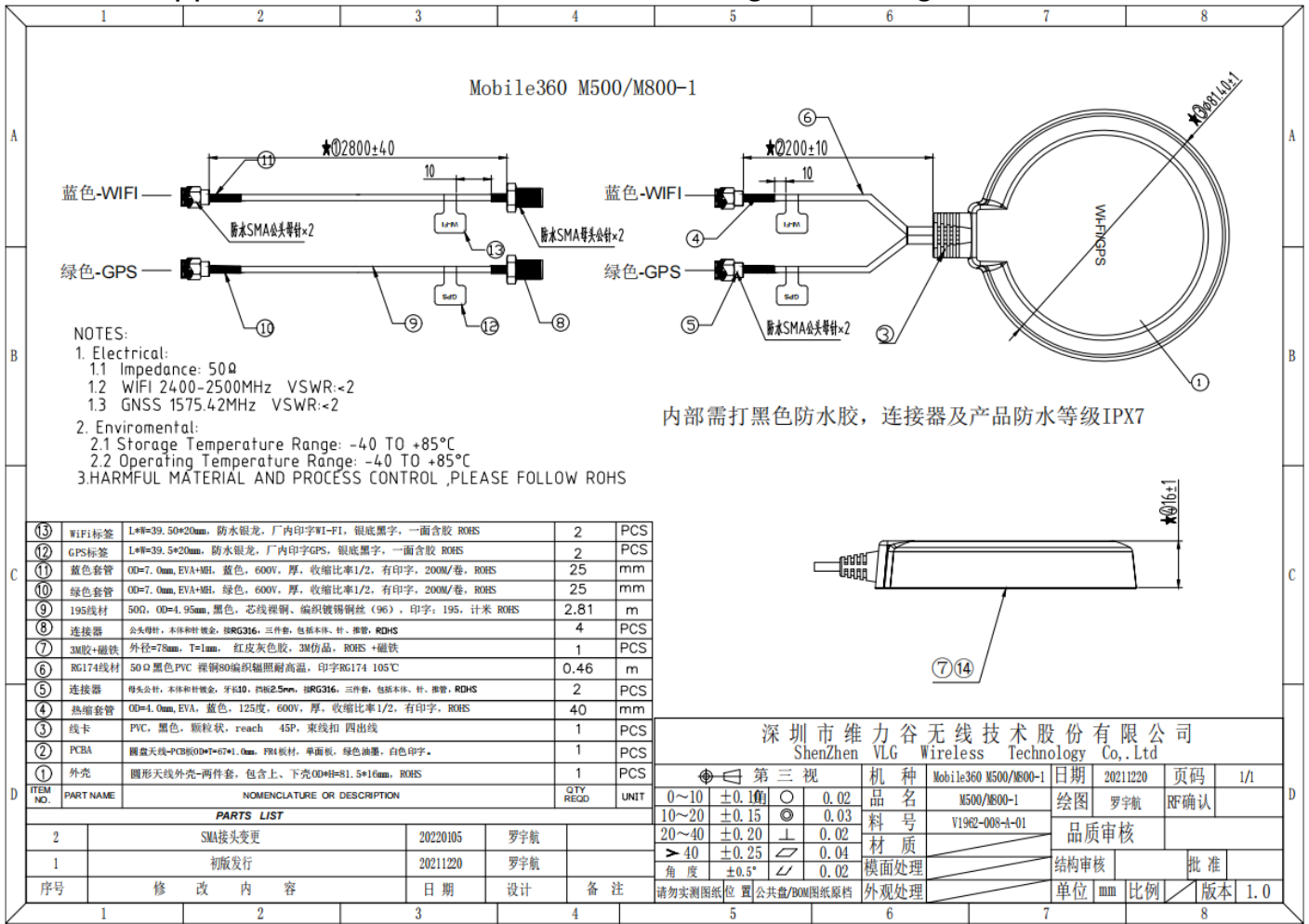
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	27.52	-5.6	0.46
5200	26	-6.18	0.57
5250	25.84	-6.41	0.27
5300	25.85	-5.87	0.58
5350	25.95	-5.86	0.36
5400	26.04	-5.84	0.34
5450	28.76	-5.41	0.86
5500	25.7	-5.9	0.11
5550	24.05	-6.19	0.03
5600	27.52	-5.47	0.44
5650	33.86	-4.7	1.42
5700	32.93	-4.82	1.16
5750	28.19	-5.59	0.67
5800	30.84	-5.11	0.93
5850	30.31	-5.18	0.89

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			P0

3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



UNLESS OTHER SPECIFIED TOLERANCES ON : $X = \pm$ $X.X = \pm$ $X.XX = \pm$ ANGLES = $\pm$ HOLEDIA = $\pm$		VLG	ShenZhen VLG Wireless Technology Co.,Ltd.
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3-2. Connector appearance: SMA PLUG



3-3.Product Image :



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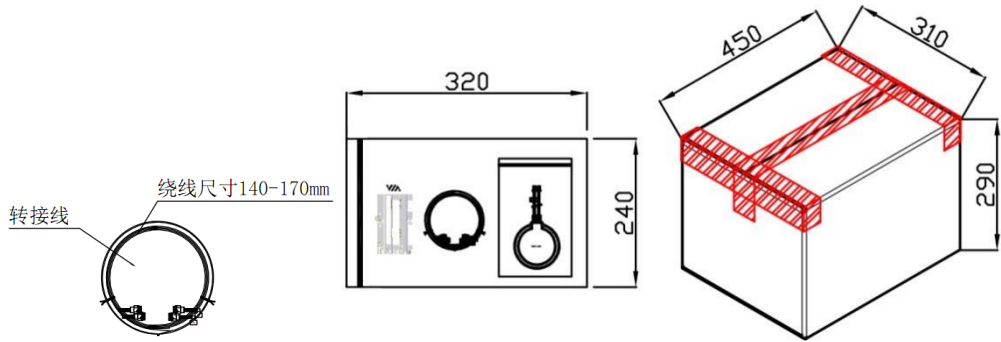
4 .Packaging specification:

一、 Label requirements:

威盛料号: 99G26-13103T VIA PART NO.	订货号: V1962-008-A-01 NO. :	
品名: Mobile360 M500/M800 Wi-Fi/GPS antenna NAME.		
规格: SMA 2-in-1 antenna for Wi-Fi/GPS SPEC.		
订单号: 按订单填写 PO.		
日期: 填实际日期 Y/M/D	数量: 填实际数量 QTY.	

二、 Boxing:

- A. Transfer 1pcs products and 2pcs to the wire (blue, green Each 1pcsput in PE bags and sealed.
- B. 40pcs of the PE bags will be packed in cartons.
- Seal the box and post the outside box label.



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2.Electrical Specification:

Those specifications were specially defined for **customer's** model, and all characteristics were measured under the model's handset testing jig .

2-1. Frequency Band:

Frequency Band	MHz
4G-ANT-M 4G -ANT-D	4G-ANT-M: 690-960/1710-2690 4G -ANT-D:1710-2690

2-2. Impedance

50 ohm nominal

2-3.Waterproof grade

IP67

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2-4. VSWR

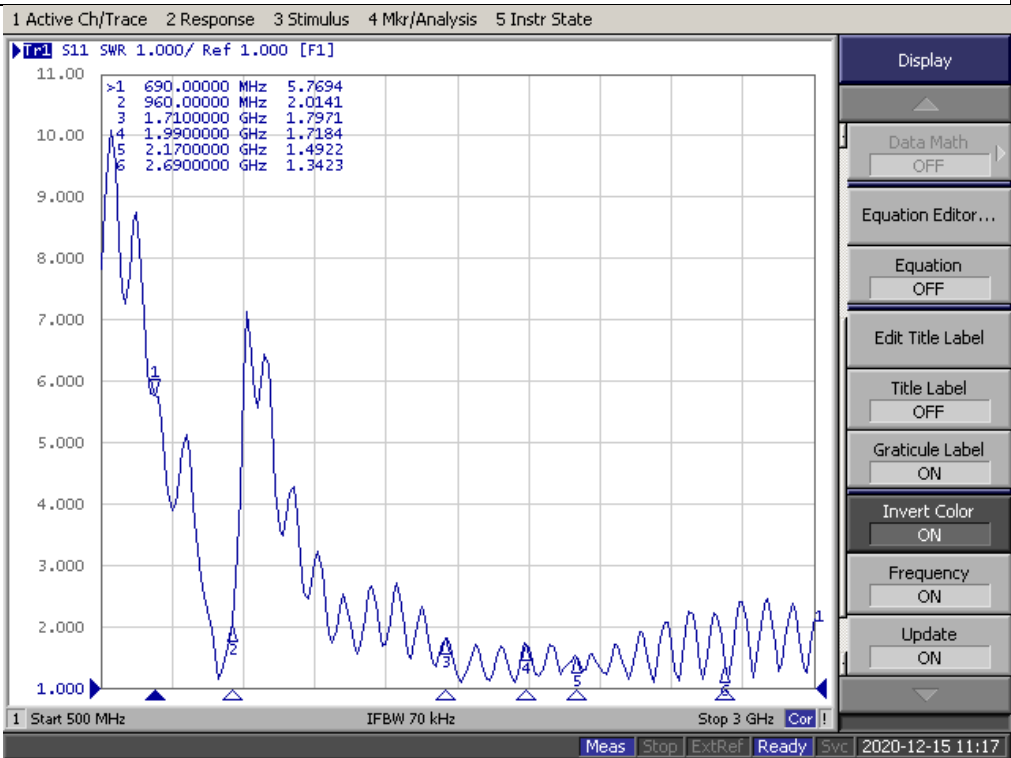
4G ANT-M antenna

	690	960	1710	1990	2170	2690
Frequency Band(MHz)						
Typical Value:	5.7	2.0	1.79	1.71	1.49	1.34

Measuring Method

1. A 50Ωcoaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR.
2. Keeping this jig away from metal at least 20 cm

Picture



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2-4. VSWR

4G ANT-D antenna

	824	960	1710	1990	2170	2690
Frequency Band(MHz)						
Typical Value:	/	/	1.68	1.14	1.12	1.51

Measuring Method

3. A 50Ωcoaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR.

4. Keeping this jig away from metal at least 20 cm

Picture

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

S22 SWR 1.000/ Ref 1.000

11.00

10.00

9.000

8.000

7.000

6.000

5.000

4.000

3.000

2.000

1.000

>1/ 890.00000 MHz 9.2717

2/ 960.00000 MHz 5.5592

3/ 1.7100000 GHz 1.6828

4/ 1.9900000 GHz 1.1458

5/ 2.1700000 GHz 1.1248

6/ 2.6900000 GHz 1.5155

1 Start 500 MHz

IFBW 70 kHz

Stop 3 GHz

Meas Stop ExtRef Ready Svc 2020-12-15 11:18

Display

Allocate Channels

Num of Traces 1

Allocate Traces

Display Data

Data -> Mem

Data Math OFF

Equation Editor...

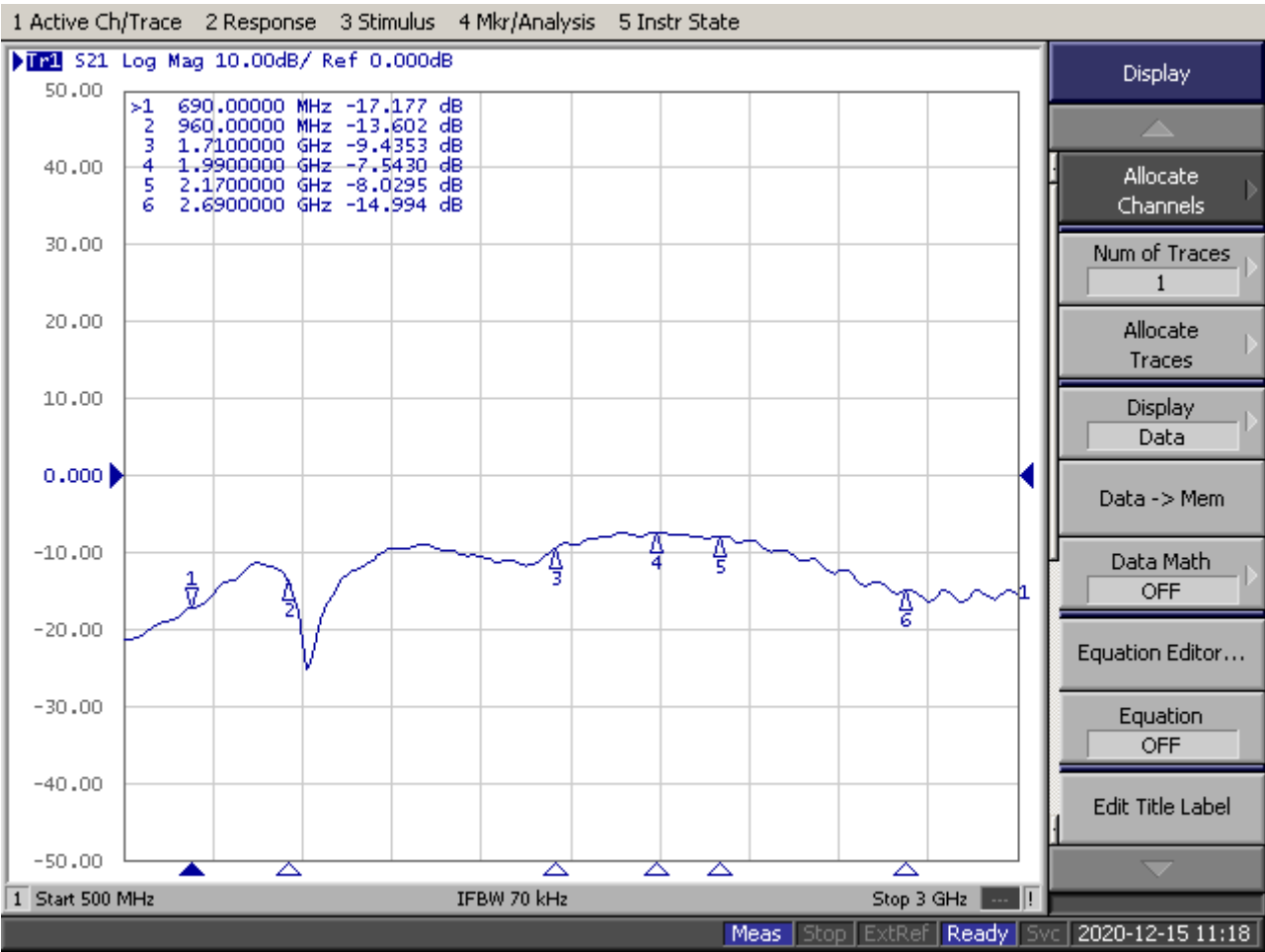
Equation OFF

Edit Title Label

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2-4. Antenna Isolation

	824	960	1710	1990	2170	2690
Frequency Band(MHz)						
Typical Value:	-17	-13	-9.4	-7.5	-8.0	-14.9



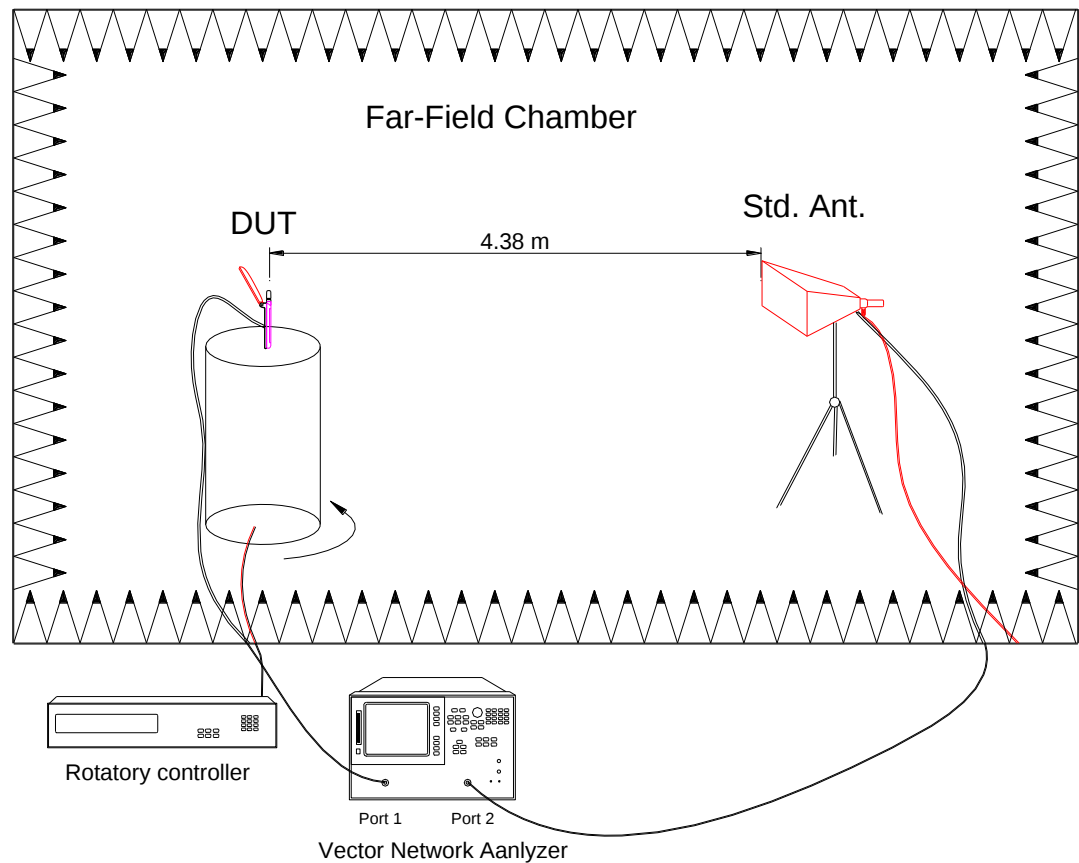
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2-5. Efficiency and Gain

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2-5-3 Efficiency and Gain/

4G ANT-M antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
690	16.44	-10.07	-3.86
700	17.38	-9.62	-3.47
710	17.27	-9.54	-3.1
720	18.78	-7.88	-3.07
730	18.17	-7.93	-3.04
740	20.55	-7.39	-2.62
750	20.43	-7.82	-2.69
760	18.47	-8.4	-3.14
770	20.11	-6.51	-2.62
780	21.75	-6.03	-2.25
790	19.47	-7.11	-3.01
800	21.32	-6.71	-2.52
810	19.09	-7.93	-2.96
820	19.06	-7.94	-3.06

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
830	25.14	-5.2	-1.32
840	27.34	-5.12	-1.22
850	26.73	-5.26	-1.38
860	25.89	-5.01	-1.52
870	32.33	-4.9	-0.27
880	29.24	-5.04	-0.62
890	28.29	-5.18	-0.36
900	38.28	-4.2	0.5
910	44.23	-3.54	1.14
920	40.82	-2.94	1.29
930	32.13	-4.93	-0.37
940	29.61	-5.29	-0.45
950	27.14	-6.2	-1.25
960	29.73	-5.27	-0.55

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	40.99	-3.89	1.12
1730	39.8	-3.81	0.76
1750	38.7	-3.94	0.36
1770	38.34	-3.89	0.37
1790	39.22	-3.85	0.69
1810	38.99	-3.92	0.24
1830	40.04	-3.72	0.42
1850	40.3	-3.78	1.04
1870	44.87	-3.08	1.77
1890	47.86	-2.98	2.05
1910	53.8	-2.55	2.62
1930	56.73	-2.46	2.75
1950	51.69	-2.72	2.26
1970	54.11	-2.93	2.42
1990	52.66	-2.53	1.59

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2010	45.23	-3.45	1.09
2030	36.52	-4.38	0.48
2050	38.32	-4.17	0.18
2070	45.54	-2.55	1.19
2090	48.95	-3.1	2
2110	48.08	-2.36	2.83
2130	46.98	-3.32	1.59
2150	45.16	-3.54	1.99
2170	49.22	-3.08	2.63
2190	46.16	-3.57	2.61
2210	43.12	-3.79	1.34
2230	43.05	-3.66	1.26
2250	43.66	-2.7	1.64
2270	42.48	-3.72	1.2
2290	39.73	-4.01	0.94

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Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2310	39.11	-4.08	0.73
2330	44.9	-3.69	1.47
2350	43.38	-3.53	1.76
2370	40.25	-3.95	2.16
2390	49.58	-2.02	2.61
2410	55.54	-0.68	2.51
2430	59.46	-1.58	2.69
2450	54.97	-1.87	2.73
2470	52.3	-1.96	2.23
2490	55.55	-1.64	2.48

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2510	46.67	-2.7	1.35
2530	44.15	-3.07	1.67
2550	44.29	-3.15	1.92
2570	41.15	-3.86	1.22
2590	40.29	-3.95	0.59
2610	42	-3.77	1.61
2630	45.69	-3.47	2.06
2650	46.63	-3.16	2.48
2670	47.21	-3.06	2.51
2690	51.52	-2.58	2.82

4G ANT-D antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	39.86	-5.25	0.57
1730	38.49	-5.33	0.49
1750	36.8	-5.72	0.24
1770	40.22	-4.09	1.33
1790	44.24	-3.65	1.51
1810	38.99	-5.01	0.65
1830	42.43	-3.11	1.38
1850	44.9	-3.57	1.03
1870	48.41	-3.15	1.42
1890	53.84	-2.77	2.44
1910	53.72	-1.96	2.79
1930	51.57	-2.01	2.01
1950	53.65	-2.7	2.26
1970	52.14	-2.36	2.34
1990	51.13	-2.48	2.65
2010	50.81	-2.89	1.74

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2030	49.26	-2.64	1.44
2050	49.5	-2.58	1.95
2070	51.04	-2.14	2.42
2090	48.62	-2.85	2
2110	49.66	-2.92	1.93
2130	46.68	-3.11	1.49
2150	51.2	-1.91	2.64
2170	50.96	-2.12	2.81
2190	53.1	-1.95	2.85
2210	48.25	-2.87	1.5
2230	53.48	-1.71	2.84
2250	52.74	-2.08	2.72
2270	59.57	-1.58	2.75
2290	55.7	-1.74	2.66
2310	52.12	-1.75	2.31
2330	52.91	-1.81	2.88

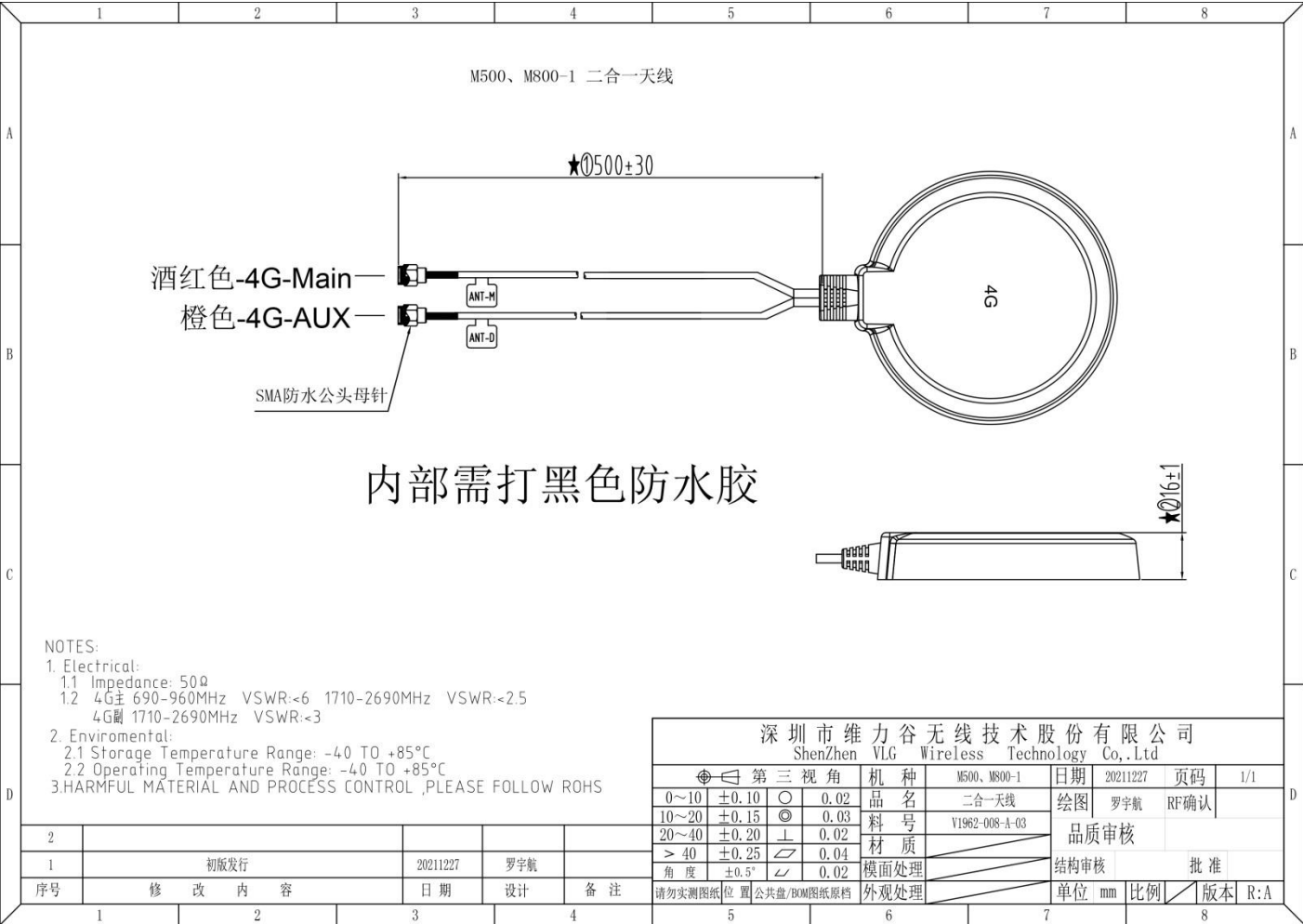
UNLESS OTHER SPECIFIED TOLERANCES ON : X = ± X.X = ± X.XX = ± ANGLES = ± HOLEDIA = ±		VLG	ShenZhen VLG Wireless Technology Co.,Ltd.
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY : XIN	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.CW.00163 RF Cable SMA JACK TO IPEX			SPEC REV. P0

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2350	52.58	-1.83	2.85
2370	48.27	-2.66	2.38
2390	46.11	-2.92	1.53
2410	53.94	-1.81	2.79
2430	51.3	-2.07	2.73
2450	49.4	-2.64	2.79
2470	48.26	-2.96	2.68
2490	49.89	-2.23	3.77
2510	50.93	-2.02	2.86

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2530	52.49	-2.08	2.31
2550	48.31	-3.34	2.09
2570	47.58	-3.03	1.84
2590	49.91	-2.89	1.78
2610	52.26	-2.02	2.33
2630	52.33	-2.05	2.64
2650	53.35	-2.03	2.56
2670	49.18	-3.08	2.15
2690	52.18	-2.05	2.72

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DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.CW.00163 RF Cable SMA JACK TO IPEX			SPEC REV. P0

3. Mechanical Specification:



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SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY : XIN	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.CW.00163 RF Cable SMA JACK TO IPEX			SPEC REV. P0

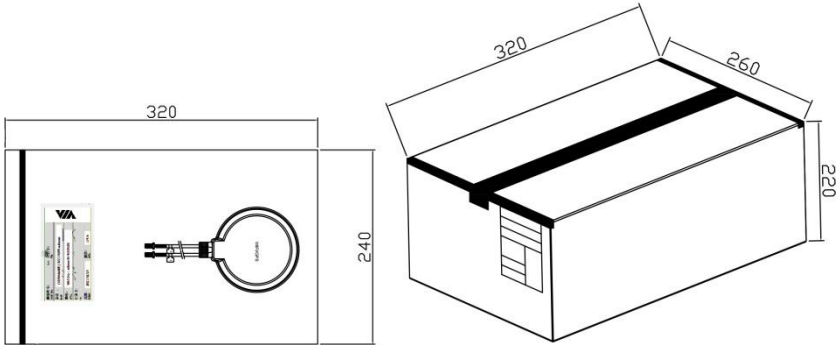
4 .Packaging specification:

一、 Label requirements:

威盛料号: 99G26-13104T VIA PART NO.		订货号: V1962-008-A-03 NO.:	
品名: Mobile360 M500/M800 4G antenna NAME.			
规格: SMA 2-in-1 antenna for 4G SPEC.			
订单号: 按订单填写 PO.			
日期: 填实际日期 Y/M/D	数量: 填实际数量 QTY.		

二、 Boxing:

- A. Use the 25pcs products with cotton wrap terminals.
- B. 40pcs of the PE bags will be packed in cartons.
- Seal the box and post the outside box label.



UNLESS OTHER SPECIFIED TOLERANCES ON = X = ± X.X = ± X.XX = ± ANGLES = ± HOLEDIA = ±		VLG	ShenZhen VLG Wireless Technology Co.,Ltd.
SCALE =	UNIT = mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY: XIN	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE = KC.CW.00163 RF Cable SMA JACK TO IPEX			SPEC REV. P0