

Name : WAG-F-LTE12-00-089

History List

[illegible]

WAG-F-LTE12-00-089 Specification

1. Explanation of part number :

WAG - F - LTE12 - 00 - 089
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) Frequency : 699-960Mhz, 1710-2170, 2300-2690 Mhz

(4) Coaxial Cable Type : 00

(5) Suffix : 089

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GSM	699-960Mhz, 1710-2170, 2300-2690 Mhz

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± 2 X.X = ± 0.1 X.XX = ± 0.05

ANGLES = $\pm$

HOLEDIA = $\pm$

SCALE :

UNIT : mm

DRAWN BY : 王婷

CHECKED BY : 张涛

DESIGNED BY : 余超

APPROVED BY : 徐克文

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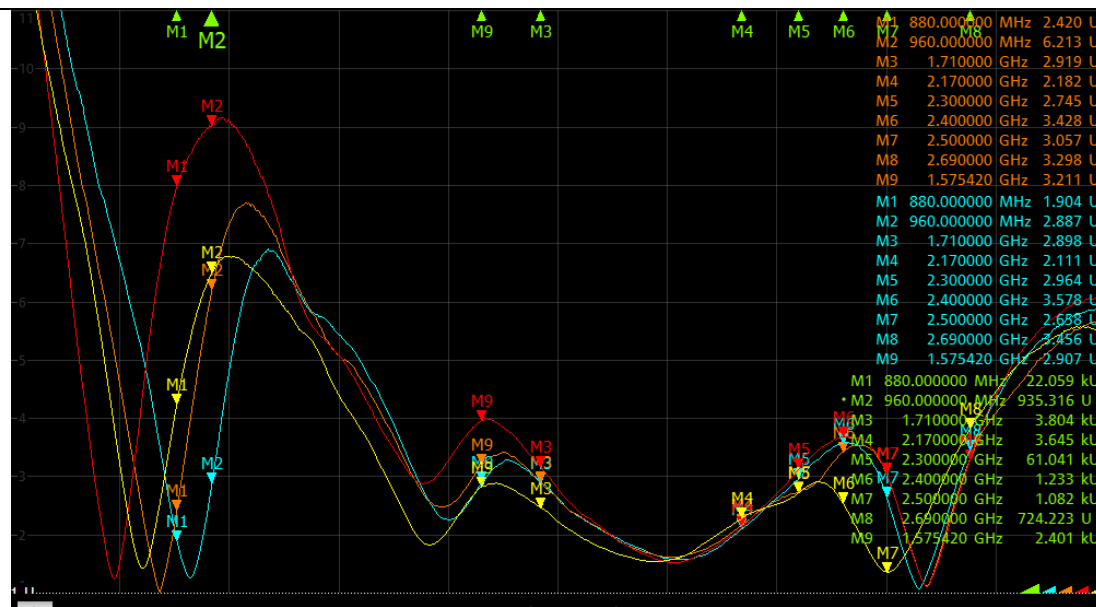
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2-2. Impedance

50 ohm nominal

2-3 VSWR:

Frequency Band	880	960	1710	2170	2300	2690																																																																																				
2-3-1. Typical Value:	≤2.5	≤3.5	≤3	≤2.5	≤3.5	≤4.5																																																																																				
2-3-2Measuring Method	1. A 50Ωcoaxial cable is connected to the fpcb 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.																																																																																									
2-3-3Picture	 <table><tr><th>Marker</th><th>Frequency</th><th>VSWR</th></tr><tr><td>M1</td><td>880.000000 MHz</td><td>2.420 U</td></tr><tr><td>M2</td><td>960.000000 MHz</td><td>6.213 U</td></tr><tr><td>M3</td><td>1.710000 GHz</td><td>2.919 U</td></tr><tr><td>M4</td><td>2.170000 GHz</td><td>2.182 U</td></tr><tr><td>M5</td><td>2.300000 GHz</td><td>2.745 U</td></tr><tr><td>M6</td><td>2.400000 GHz</td><td>3.428 U</td></tr><tr><td>M7</td><td>2.500000 GHz</td><td>3.057 U</td></tr><tr><td>M8</td><td>2.690000 GHz</td><td>3.298 U</td></tr><tr><td>M9</td><td>1.575420 GHz</td><td>3.211 U</td></tr><tr><td>M1</td><td>880.000000 MHz</td><td>1.904 U</td></tr><tr><td>M2</td><td>960.000000 MHz</td><td>2.887 U</td></tr><tr><td>M3</td><td>1.710000 GHz</td><td>2.898 U</td></tr><tr><td>M4</td><td>2.170000 GHz</td><td>2.111 U</td></tr><tr><td>M5</td><td>2.300000 GHz</td><td>2.964 U</td></tr><tr><td>M6</td><td>2.400000 GHz</td><td>3.578 U</td></tr><tr><td>M7</td><td>2.500000 GHz</td><td>2.668 U</td></tr><tr><td>M8</td><td>2.690000 GHz</td><td>3.456 U</td></tr><tr><td>M9</td><td>1.575420 GHz</td><td>2.907 U</td></tr><tr><td>M1</td><td>880.000000 MHz</td><td>22.059 kU</td></tr><tr><td>M2</td><td>960.000000 MHz</td><td>935.316 U</td></tr><tr><td>M3</td><td>1.710000 GHz</td><td>3.804 kU</td></tr><tr><td>M4</td><td>2.170000 GHz</td><td>3.645 kU</td></tr><tr><td>M5</td><td>2.300000 GHz</td><td>61.041 kU</td></tr><tr><td>M6</td><td>2.400000 GHz</td><td>1.233 kU</td></tr><tr><td>M7</td><td>2.500000 GHz</td><td>1.082 kU</td></tr><tr><td>M8</td><td>2.690000 GHz</td><td>724.223 U</td></tr><tr><td>M9</td><td>1.575420 GHz</td><td>2.401 kU</td></tr></table>						Marker	Frequency	VSWR	M1	880.000000 MHz	2.420 U	M2	960.000000 MHz	6.213 U	M3	1.710000 GHz	2.919 U	M4	2.170000 GHz	2.182 U	M5	2.300000 GHz	2.745 U	M6	2.400000 GHz	3.428 U	M7	2.500000 GHz	3.057 U	M8	2.690000 GHz	3.298 U	M9	1.575420 GHz	3.211 U	M1	880.000000 MHz	1.904 U	M2	960.000000 MHz	2.887 U	M3	1.710000 GHz	2.898 U	M4	2.170000 GHz	2.111 U	M5	2.300000 GHz	2.964 U	M6	2.400000 GHz	3.578 U	M7	2.500000 GHz	2.668 U	M8	2.690000 GHz	3.456 U	M9	1.575420 GHz	2.907 U	M1	880.000000 MHz	22.059 kU	M2	960.000000 MHz	935.316 U	M3	1.710000 GHz	3.804 kU	M4	2.170000 GHz	3.645 kU	M5	2.300000 GHz	61.041 kU	M6	2.400000 GHz	1.233 kU	M7	2.500000 GHz	1.082 kU	M8	2.690000 GHz	724.223 U	M9	1.575420 GHz	2.401 kU
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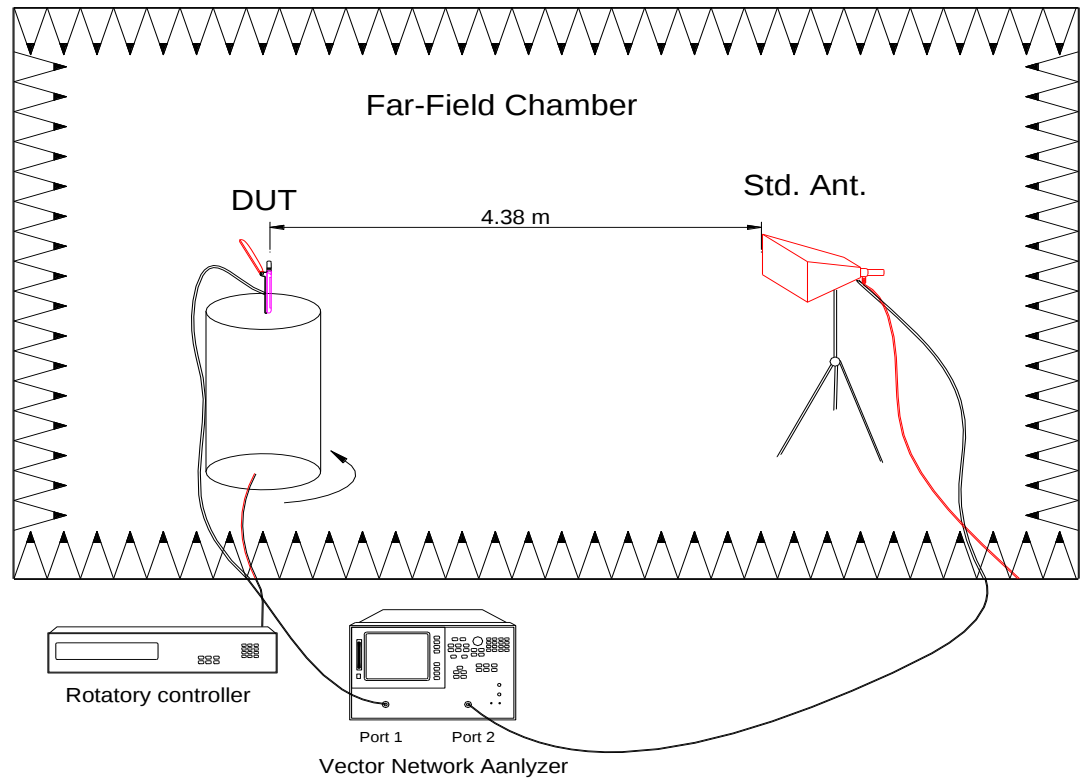
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2-4. Measure and Chamber

2-4-1 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

2-4-2 Chamber definition



- 1. An anechoic chamber (8mx4mx3.5m) 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 700MHz ~6GHz)

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2-4-3 Antenna OTA

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Band	channel	TRP						TIS					
		FS	FS AVG	BHHL	HHL AV	BHHR	HHR AV	FS	FS AVG	BHHL	HHL AV	BHHR	HHR AV
GSM850	L	27.77	27.9	19.62	19.3	19.59	19.0		-103.0		-96.0		-95.7
	M	28.01		19.42		19.05							
	H	28.01		18.75		18.36		-103		-95.99		-95.73	
GSM900	L	27.14	27.7	19.53	18.9	19.09	18.9		-101.8		-97.4		-96.0
	M	28.24		19.05		18.79							
	H	27.63		18.2		18.82		-101.8		-97.41		-96.04	
DCS	L	26.54	26.5	19.77	19.5	21.01	20.7		-106.0		-102.1		-101.7
	M	27.01		19.93		21.05							
	H	25.87		18.94		20.18		-106		-102.1		-101.7	
PCS	L	26.86	26.8	19.65	19.4	21.28	21.1		-105.3		-100.9		-100.1
	M	27.13		19.56		21.44							
	H	26.36		18.98		20.69		-105.3		-100.9		-100.1	
WCDMA_1	L	19.71	19.3	12.62	12.6	14.18	13.8		-107.9		-103.5		-103.5
	M	19.21		12.39		13.71							
	H	18.93		12.81		13.54		-107.9		-103.5		-103.5	
WCDMA_5	L	19.82	19.8	10.2	10.0	9.9	9.8		-105.2		-99.5		-99.2
	M	19.96		10.1		9.85							
	H	19.67		9.68		9.69		-105.2		-99.5		-99.23	
WCDMA_8	L	19.42	19.6	10.99	10.6	10.71	10.8		-105.3		-99.5		-99.6
	M	20.02		10.8		10.91							
	H	19.47		10.15		10.74		-105.3		-99.51		-99.61	
LTE B1	L	20.07	19.7	13.22	13.1	14.77	14.4		-95.7		-90.1		-90.8
	M	19.52		12.79		14.27							
	H	19.49		13.23		14.16		-95.72		-90.06		-90.84	
LTE B3	L	19.95	20.0	13.44	13.6	13.93	14.1		-96.6		-91.8		-92.4
	M	19.97		13.56		14.09							
	H	20.19		13.73		14.41		-96.58		-91.8		-92.39	
LTE B5	L	19.83	19.8	10.29	10.0	9.94	9.8		-92.0		-84.0		-85.0
	M	19.94		10.08		9.78							
	H	19.56		9.61		9.61		-92.01		-83.99		-85.03	
LTE B7	L	19.02	20.0	14.48	14.7	12.65	13.1		-95.4		-90.4		-90.5
	M	20.08		14.79		13.26							
	H	20.75		14.68		13.33		-95.41		-90.4		-90.46	
LTE B8	L	19.41	19.6	10.98	10.6	10.63	10.7		-93.4		-86.9		-87.3
	M	20.05		10.85		10.88							
	H	19.38		10.04		10.62		-93.37		-86.91		-87.32	
LTE B20	L	19.72	18.7	9.64	8.7	9.4	9.0		-95.1		-85.8		-86.7
	M	18.89		8.86		9.09							
	H	17.41		7.56		8.37		-95.08		-85.75		-86.72	
LTE B28	L	19.97	20.0	12.11	11.1	11.88	10.7		-93.0		-83.8		-85.2
	M	20.2		11.19		10.6							
	H	19.85		9.87		9.63		-92.97		-83.77		-85.22	
LTE B38(10M)	L	20.8	20.6	14.37	13.8	13.35	12.8		-94.3		-89.8		-89.8
	M	20.84		13.98		12.93							
	H	20.23		13.08		12.19		-94.33		-89.81		-89.79	
LTE B40(10M)	L	18.54	18.7	13.23	13.8	12.91	13.0		-94.5		-90.8		-89.3
	M	18.81		14		13.13							
	H	18.76		14.29		12.91		-94.51		-90.81		-89.33	
LTE B41(10M)	L	20.66	20.1	14.31	13.3	13.21	12.3		-93.2		-88.1		-88.0
	M	20.83		13.91		12.8							
	H	18.85		11.64		11.03		-93.22		-88.07		-87.97	

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2-4-4 Antenna Efficiency

	RF1			RF2			RF3			RF4		
频率	效率 (dB)	效率 (%)	增益 (dB)	效率 (dB)	效率 (%)	增益 (dB)	效率 (dB)	效率 (%)	增益 (dB)	效率 (dB)	效率 (%)	增益 (dB)
699												
704							-5.90	25.71	-2.46			
707							-5.48	28.30	-2.04			
710							-5.41	28.75	-2.00			
716							-5.05	31.26	-1.74			
729							-4.97	31.86	-1.76			
734							-4.55	35.08	-1.57			
737							-4.54	35.14	-1.58			
740							-4.52	35.29	-1.58			
746							-4.48	35.61	-1.55			
751							-5.12	30.77	-2.27			
756							-5.23	29.97	-2.32			
777							-5.64	27.30	-2.80			
782							-7.05	19.74	-4.10			
787							-7.54	17.62	-4.55			
791							-8.19	15.16	-5.17	-6.75	21.15	-3.19
806							-8.16	15.29	-5.14	-6.36	23.11	-2.68
815				-6.27	23.59	-3.11				-6.15	24.26	-2.37
821				-5.90	25.70	-2.71				-6.20	23.99	-2.45
824				-5.70	26.92	-2.51				-6.03	24.95	-2.25
832				-5.75	26.60	-2.55				-6.18	24.09	-2.51
836				-5.58	27.67	-2.25				-6.43	22.75	-2.81
847				-5.75	26.61	-2.56				-6.54	22.19	-3.04
849				-6.07	24.74	-2.88				-6.54	22.20	-3.02
862				-6.48	22.50	-3.22				-6.90	20.41	-3.28
869				-6.55	22.15	-3.34						
880	-6.54	22.18	-3.14	-6.93	20.29	-3.73						
881	-6.51	22.35	-3.11	-7.24	18.87	-3.97						
894	-6.36	23.15	-2.96	-8.00	15.85	-4.70						
897	-6.24	23.76	-2.87									
915	-6.15	24.29	-2.76									
925	-6.25	23.74	-2.81									
942	-7.27	18.75	-3.91									
960	-8.46	14.26	-5.07									

RF1

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频率	效率 (dB)	效率 (%)	增益 (dB)
1710	-4.47	35.70	1.67
1732	-4.39	36.36	1.84
1747	-4.41	36.21	1.60
1755	-4.38	36.47	1.63
1805	-4.09	39.01	1.61
1842	-3.80	41.67	1.49
1850	-3.95	40.27	1.34
1880	-3.55	44.21	1.23
1900	-3.77	41.97	0.47
1910	-3.89	40.88	0.26
1920	-3.66	43.07	0.54
1930	-3.70	42.68	0.55
1940	-3.41	45.63	0.87
1950	-3.34	46.36	0.98
1960	-3.47	44.93	0.88
1980	-3.03	49.73	1.38
1990	-3.25	47.34	1.18
2010	-3.22	47.59	1.26
2040	-3.66	43.06	0.84
2070	-3.59	43.74	0.78
2110	-4.12	38.76	0.10
2132	-4.68	34.04	-0.61
2140	-4.68	34.06	-0.61
2155	-4.72	33.73	-0.72
2170	-4.65	34.29	-0.35
2250	-4.71	33.82	0.46
2300	-5.22	30.03	0.13
2350	-5.81	26.22	-1.31
2400	-6.27	23.61	-1.24
2410	-7.18	19.14	-2.33
2420	-7.36	18.38	-2.28
2430	-8.04	15.71	-2.83
2440	-7.33	18.48	-2.25
2450	-7.07	19.64	-2.29
2460	-7.18	19.13	-2.50

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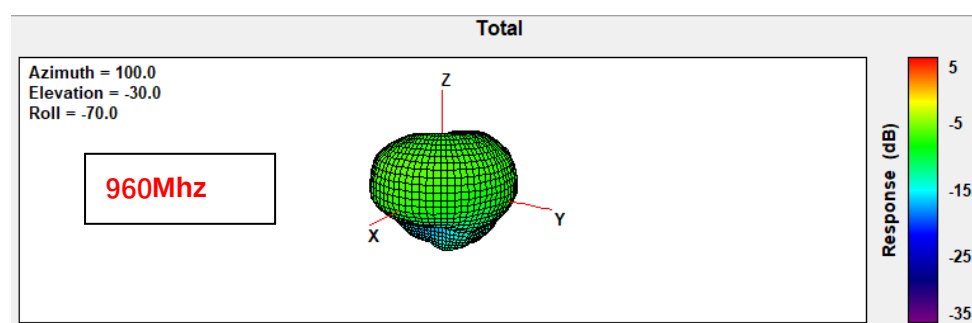
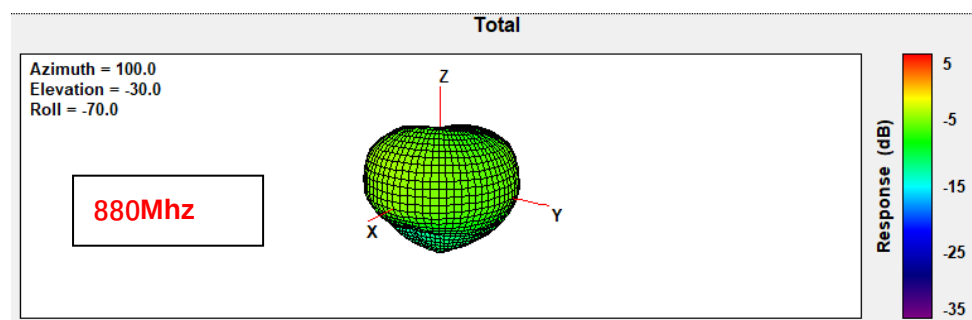
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2470	-7.55	17.57	-3.00
2480	-7.74	16.83	-3.32
2490	-7.10	19.49	-2.55
2500	-5.87	25.89	-0.33
2535	-4.67	34.16	0.53
2570	-3.76	42.12	1.57
2593	-3.44	45.34	1.70
2595	-3.38	45.88	1.74
2620	-3.67	42.91	1.05
2655	-4.30	37.18	-0.29
2690	-5.82	26.21	-2.39

3. Antenna 3D Radiation Pattern

- LTE B8



- LTE B3

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±2 X.X = ±0.1 X.XX = ±0.05

ANGLES = ± HOLEDIA = ±

SCALE : UNIT : mm

DRAWN BY : 王婷 CHECKED BY : 张涛

DESIGNED BY : 余超 APPROVED BY : 徐克文

TITLE : WAG-F-LTE12-00-089 Specification

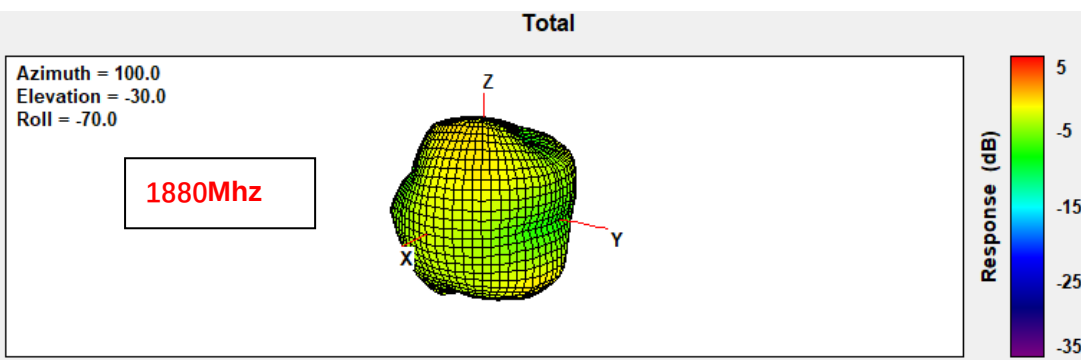
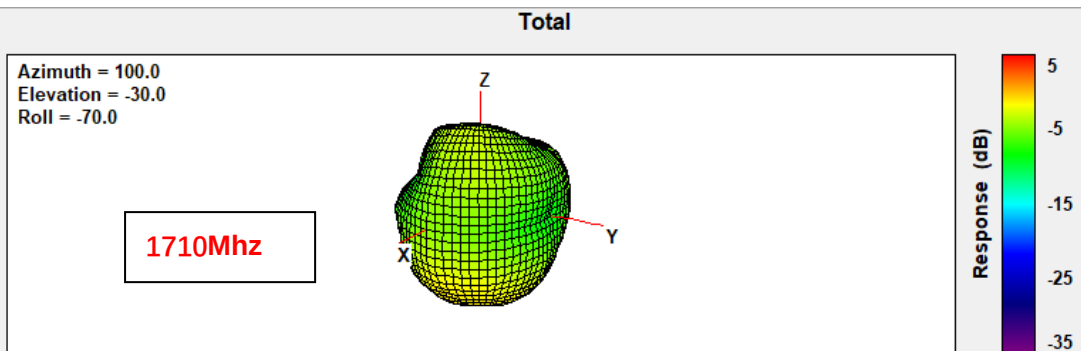


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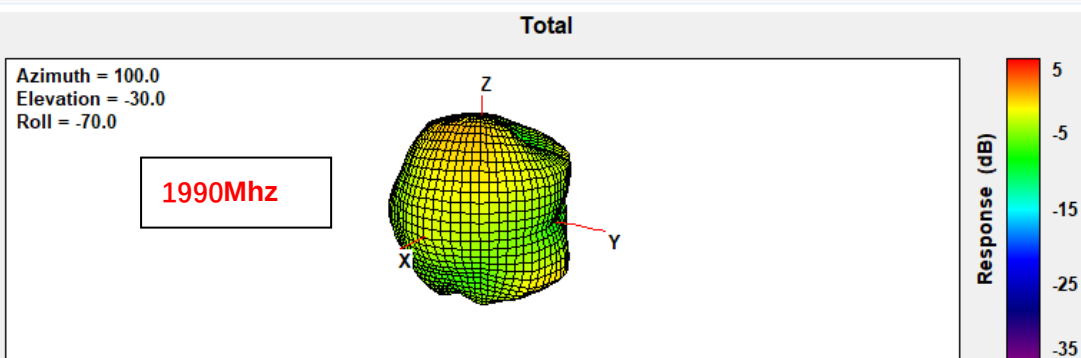
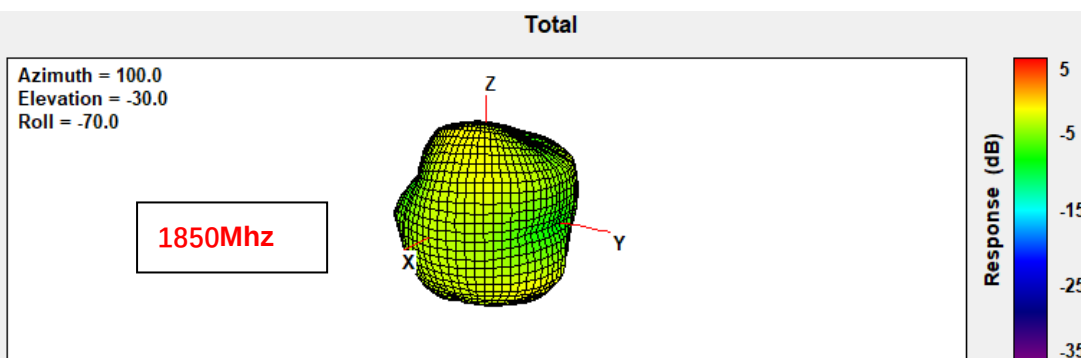
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- LTE B2



UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± 2 X.X = ± 0.1 X.XX = ± 0.05

ANGLES = $\pm$ HOLEDIA = $\pm$

SCALE : UNIT : mm

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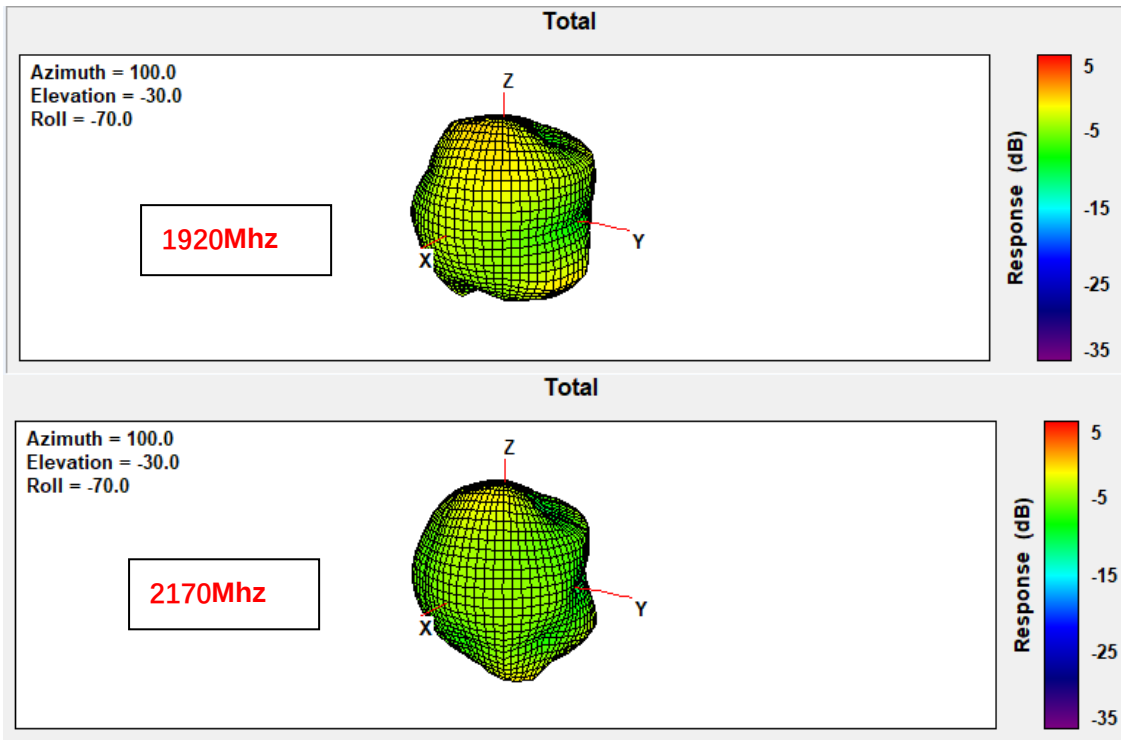
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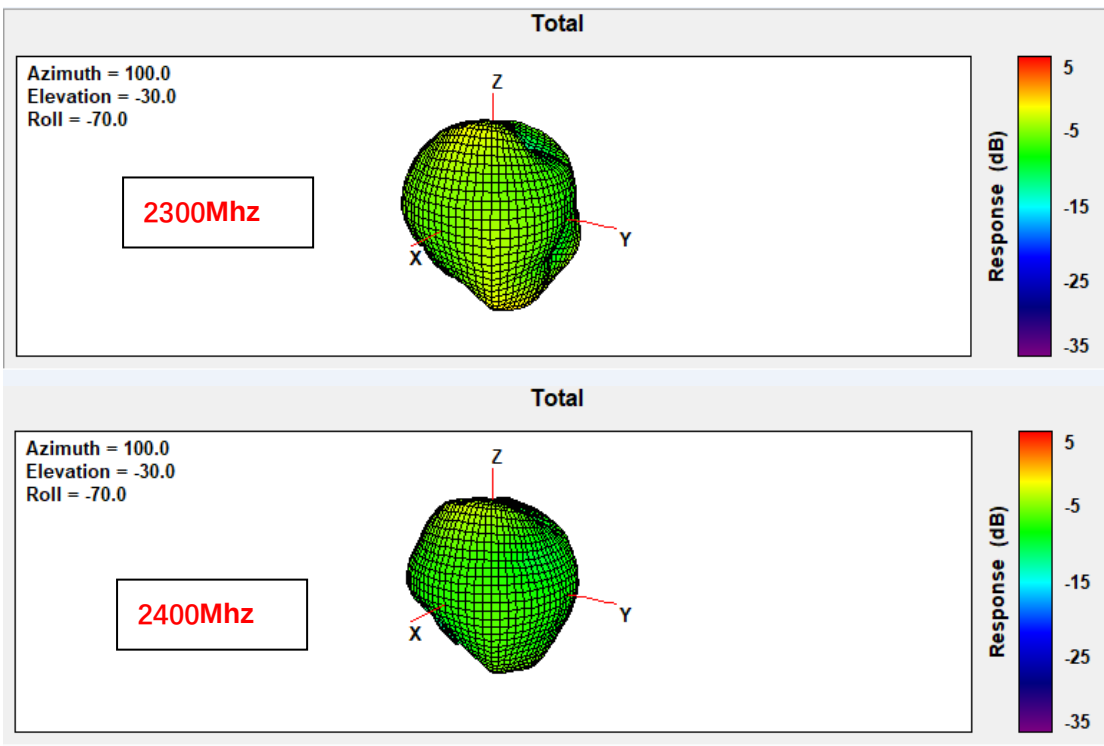
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- LTE B1



- LTE B40



UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± 2 X.X = ± 0.1 X.XX = ± 0.05

ANGLES = $\pm$ HOLEDIA = $\pm$

SCALE : UNIT : mm

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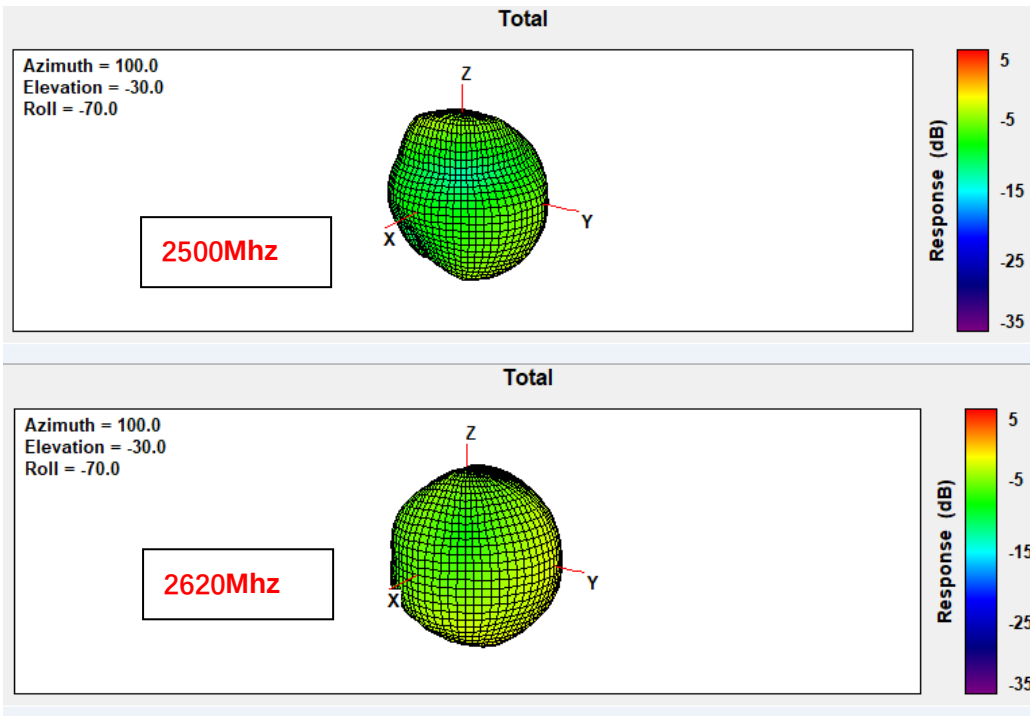
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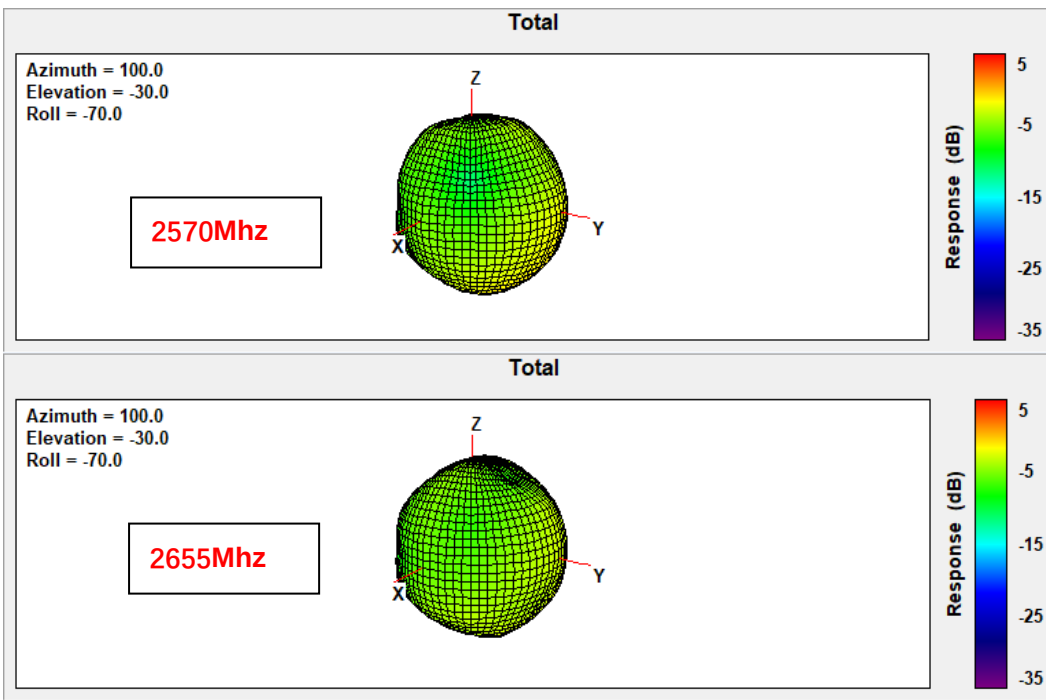
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-LTE B7



-LTE B41



4. Antenna Dimensions:

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± 2 X.X = ± 0.1 X.XX = ± 0.05

ANGLES = $\pm$ HOLEDIA = $\pm$

SCALE : UNIT : mm

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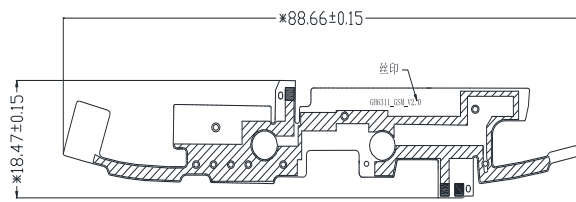


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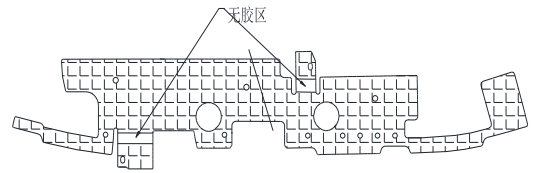
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正面

*0.12±0.03



反面

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±2 X.X = ±0.1 X.XX = ±0.05

ANGLES = ±

HOLEDIA = ±

SCALE :

UNIT : mm

DRAWN BY : 王婷

CHECKED BY : 张涛

DESIGNED BY : 余超

APPROVED BY : 徐克文

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