



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name:24116RACCG

FCC ID: 2AFZZRACCG

Test date:



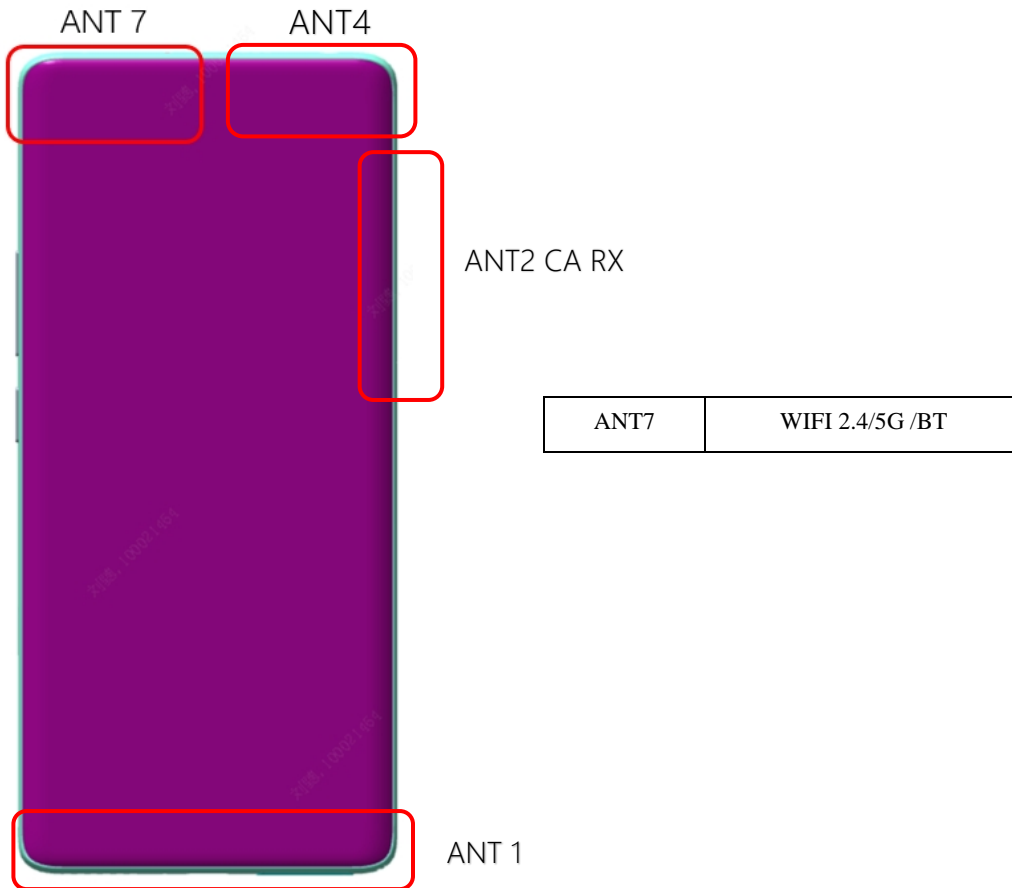
1. Antenna information

Antenna	Model Name	Antenna Pattern	Antenna Type	Manufacturer	Manufacturer's address	Test party of Antenna gain
ANT1	AL7286A	MDA	PIFA Antenna	Kun Shan Innowave Communication Technology Co., Ltd.	No. 55 Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province	Kun Shan Innowave Communication Technology Co., Ltd. LUXSHARE ICT Technology Ltd.
				LUXSHARE ICT Technology Ltd.	No. 158 Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province	
ANT4	AL7286A	MDA+FPC	PIFA Antenna	Kun Shan Innowave Communication Technology Co., Ltd.	No. 55 Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province	Kun Shan Innowave Communication Technology Co., Ltd. LUXSHARE ICT Technology Ltd.
				LUXSHARE ICT Technology Ltd.	No. 158 Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province	
ANT2	AL7286A	MDA	PIFA Antenna	Kun Shan Innowave Communication Technology Co., Ltd.	No. 55 Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province	Kun Shan Innowave Communication Technology Co., Ltd. LUXSHARE ICT Technology Ltd.
				LUXSHARE ICT Technology Ltd.	No. 158 Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province	
ANT7	AL7286A	MDA+FPC	PIFA Antenna	Kun Shan Innowave Communication Technology Co., Ltd.	No. 55 Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province	Kun Shan Innowave Communication Technology Co., Ltd. LUXSHARE ICT Technology Ltd.



				LUXSHARE ICT Technology Ltd.	No. 158 Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province	
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Antenna distribution



2、Test data

ANT1		efficiency	max peak gain
2G	GSM850 (824-849, 869-894)	-9.12	-3.77
	GSM900 (880-915, 925-960)	-7.96	-2.87
	GSM1800 (1710-1785, 1905-1880)	-5.78	-1.73

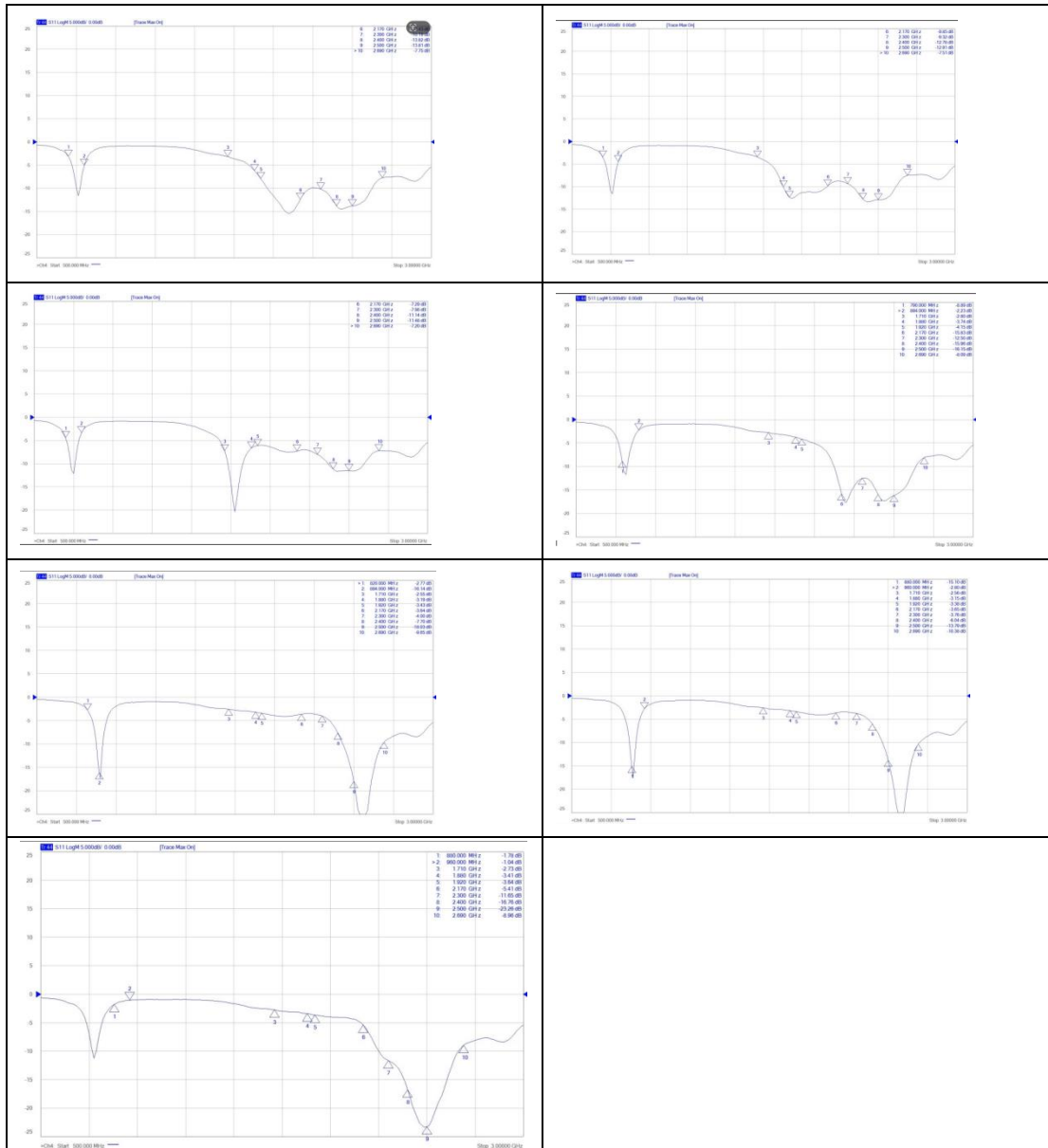


	GSM1900 (1850-1910, 1930-1990)	-5.54	-2.18
3G	WCDMA B1 (1920-1980, 2110-2170)	-6.18	-1.31
	WCDMA B2 (1850-1910, 1930-1990)	-5.54	-2.18
	WCDMA B4 (1710-1755, 2110-2170)	-6.88	-1.73
	WCDMA B5 (824-849, 869-894)	-9.12	-3.77
	WCDMA B8 (880-915, 925-960)	-7.96	-2.87
4G	TTE FDD 1: (1920-1980, 2110-2170)	-6.18	-1.31
	TTE FDD 2: (1850-1910, 1930-1990)	-5.54	-2.18
	TTE FDD 3: (1710-1785, 1810-1880)	-5.78	-1.73
	TTE FDD 4: (1710-1755, 2110-2170)	-6.88	-1.73
	TTE FDD 5: (824-849, 869-894)	-9.12	-3.77
	TTE FDD 7: (2500-2570, 2620-2690)	-6.95	-0.69
	TTE FDD 8: (880-915, 925-960)	-7.96	-2.87
	TTE FDD 12: (700-715, 730-745)	-8.3	-5.31
	TTE FDD 13: (775-788, 745-757)	-8.8	-4.96
	TTE FDD 17: (704-716, 739-746)	-8.36	-5.31
	TTE FDD 20: (830-862, 790-820)	-8.78	-3.45
	TTE FDD 26: (814-849, 862-890)	-9.14	-3.77
	TTE FDD 28: (703-748,758-800)	-8.41	-3.89
	TTE FDD 66: (1710-1780,2110-2180)	-6.82	-1.73
TTE TDD 38: (2570-2620)	-6.57	-0.69	



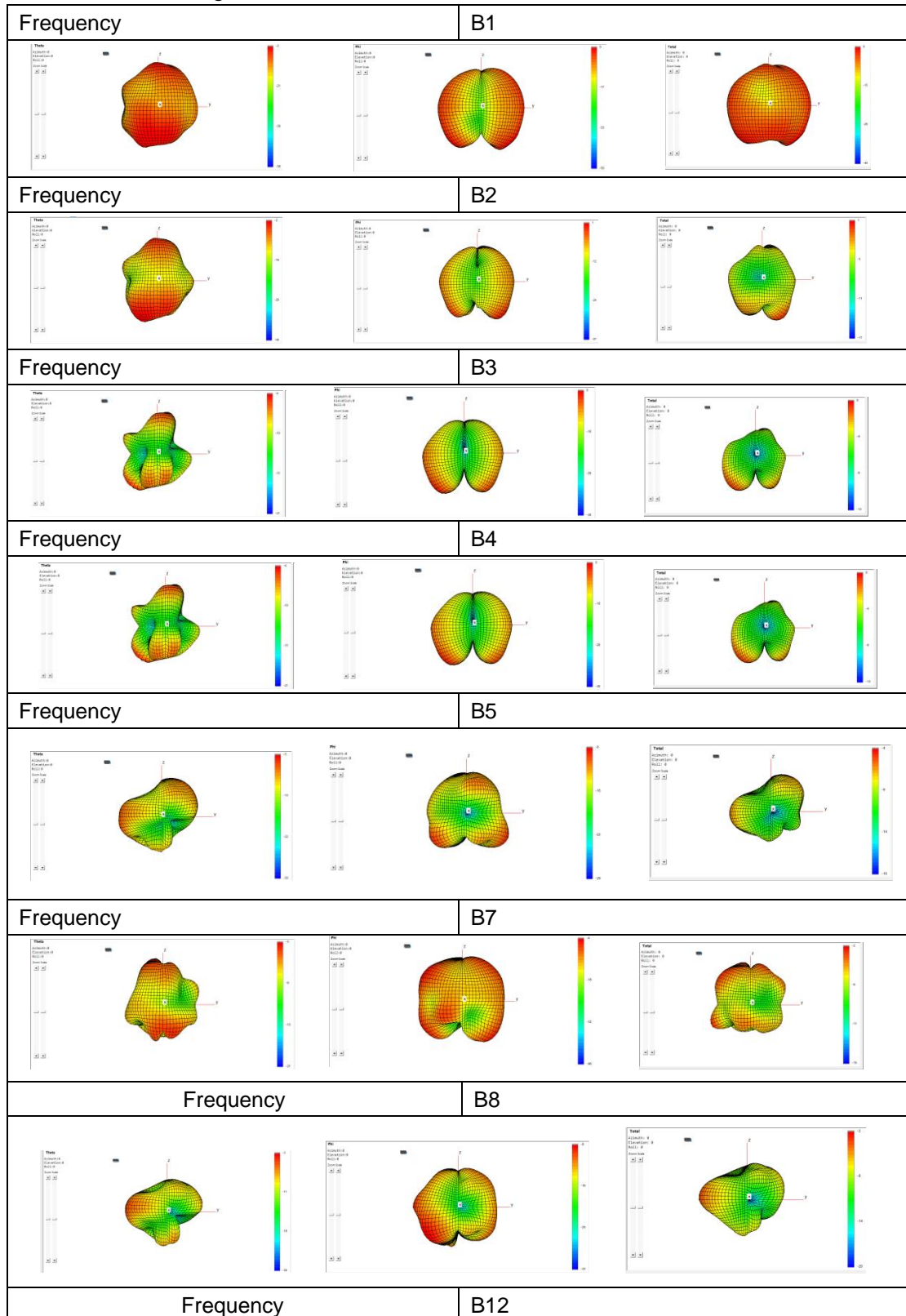
	TTE TDD 40: (2300-2400)	-8.6	-0.96
	TTE TDD 41: (2496-2690)	-6.89	-0.69

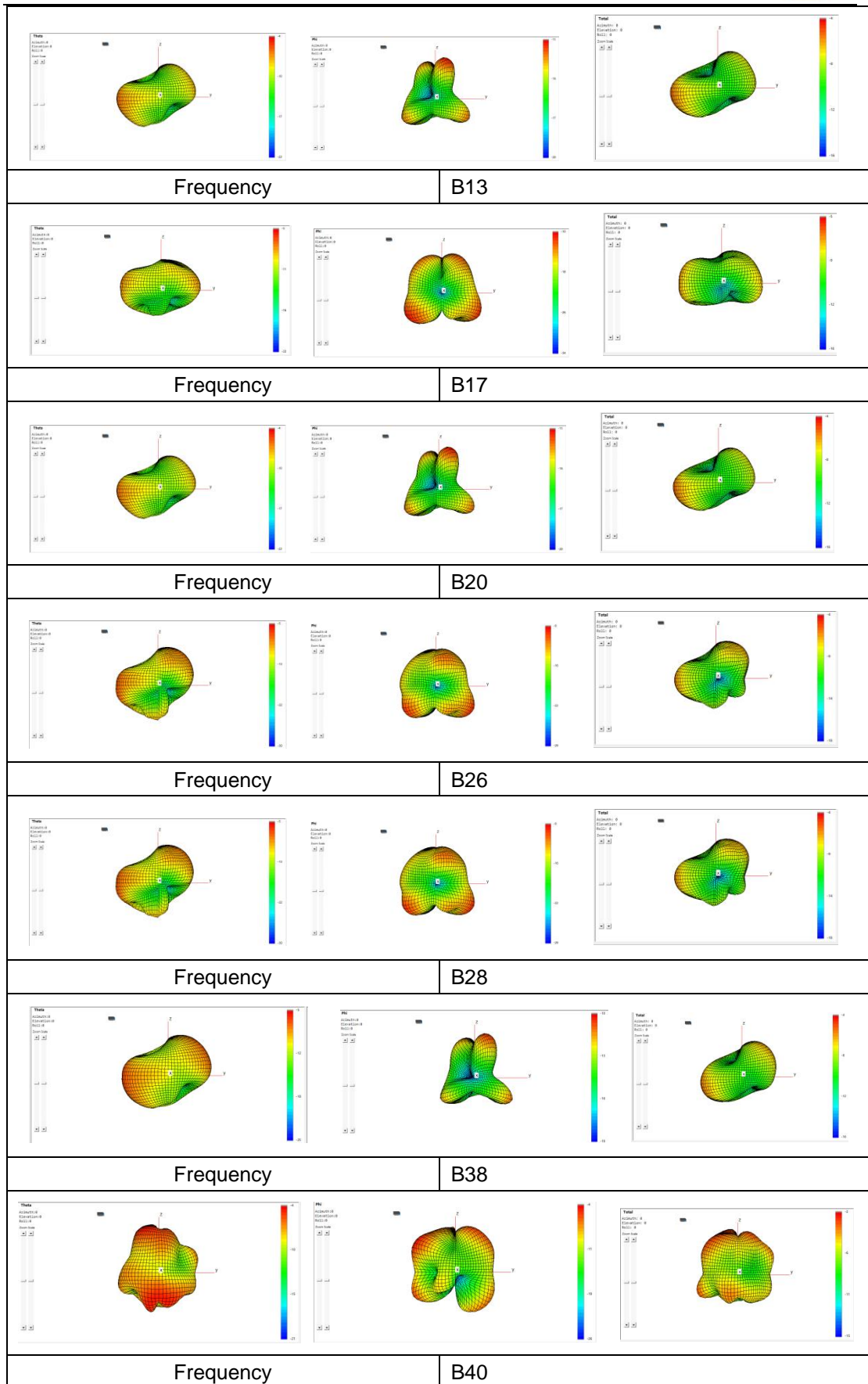
ANT1 S11&SMTTH

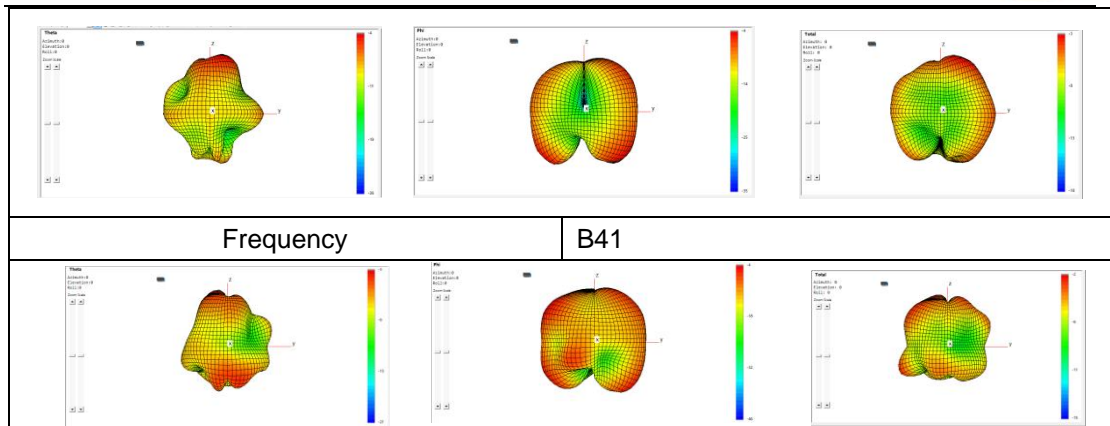




ANT1 directional diagram





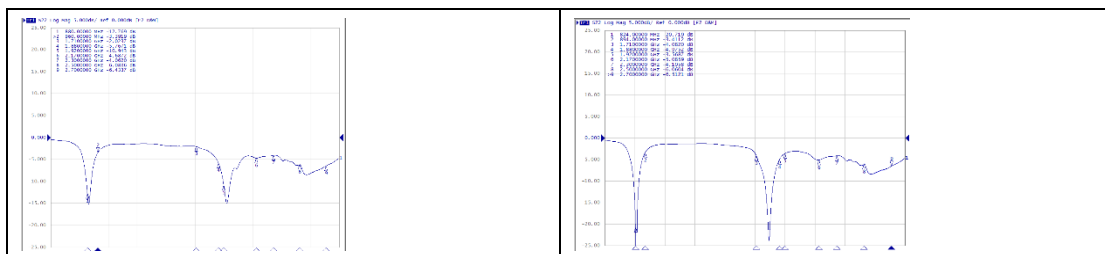


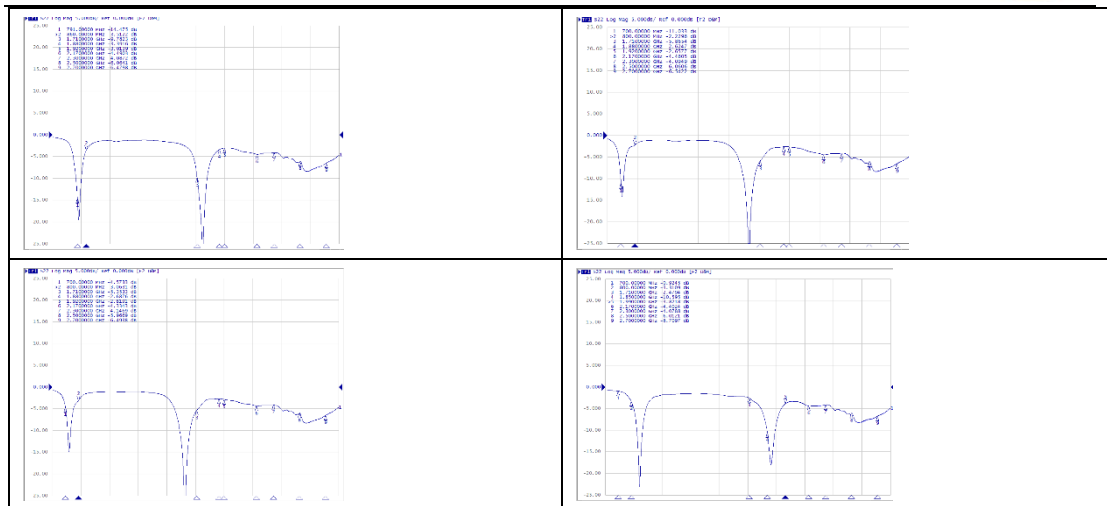
ANT4		efficiency	max peak gain
2G	GSM850 (824-849, 869-894)	-10.47	-5.92
	GSM900 (880-915, 925-960)	-9.82	-6.24
	GSM1800 (1710-1785, 1905-1880)	-7.49	-2.47
	GSM1900 (1850-1910, 1930-1990)	-6.93	-1.95
3G	WCDMA B1 (1920-1980, 2110-2170)	-6.96	-3
	WCDMA B2 (1850-1910, 1930-1990)	-6.93	-1.95
	WCDMA B4 (1710-1755, 2110-2170)	-7.35	-2.47
	WCDMA B5 (824-849, 869-894)	-10.47	-5.92
	WCDMA B8 (880-915, 925-960)	-9.82	-6.24
4G	TTE FDD 1: (1920-1980, 2110-2170)	-6.96	-3
	TTE FDD 2: (1850-1910, 1930-1990)	-6.93	-1.95
	TTE FDD 3: (1710-1785, 1810-1880)	-7.49	-2.47



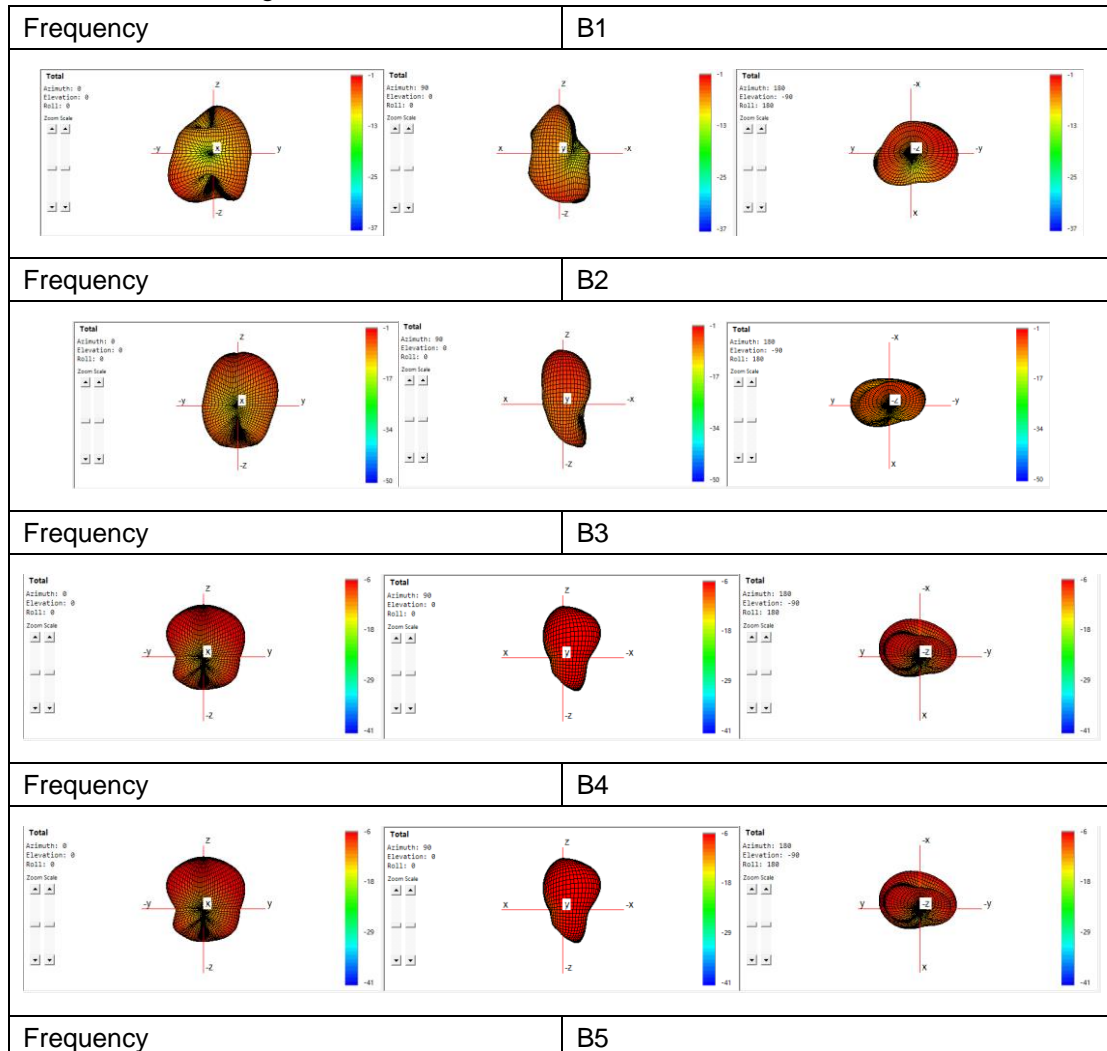
TTE FDD 4: (1710-1755, 2110-2170)	-7.35	-2.47
TTE FDD 5: (824-849, 869-894)	-10.47	-5.92
TTE FDD 7: (2500-2570, 2620-2690)	-5.22	-1.78
TTE FDD 8: (880-915, 925-960)	-9.82	-6.24
TTE FDD 12: (700-715, 730-745)	-11.46	-5.94
TTE FDD 13: (775-788, 745-757)	-12.36	-8.63
TTE FDD 17: (704-716, 739-746)	-11.46	-5.94
TTE FDD 20: (830-862, 790-820)	-10.75	-6.5
TTE FDD 26: (814-849, 862-890)	-11.57	-5.73
TTE FDD 28: (703-748,758-800)	-12.9	-5.78
TTE FDD 66: (1710-1780,2110-2180)	-7.35	-2.47
TTE TDD 38: (2570-2620)	-4.81	-1.78
TTE TDD 40: (2300-2400)	-7.33	-1.83
TTE TDD 41: (2496-2690)	-5.31	-1.78

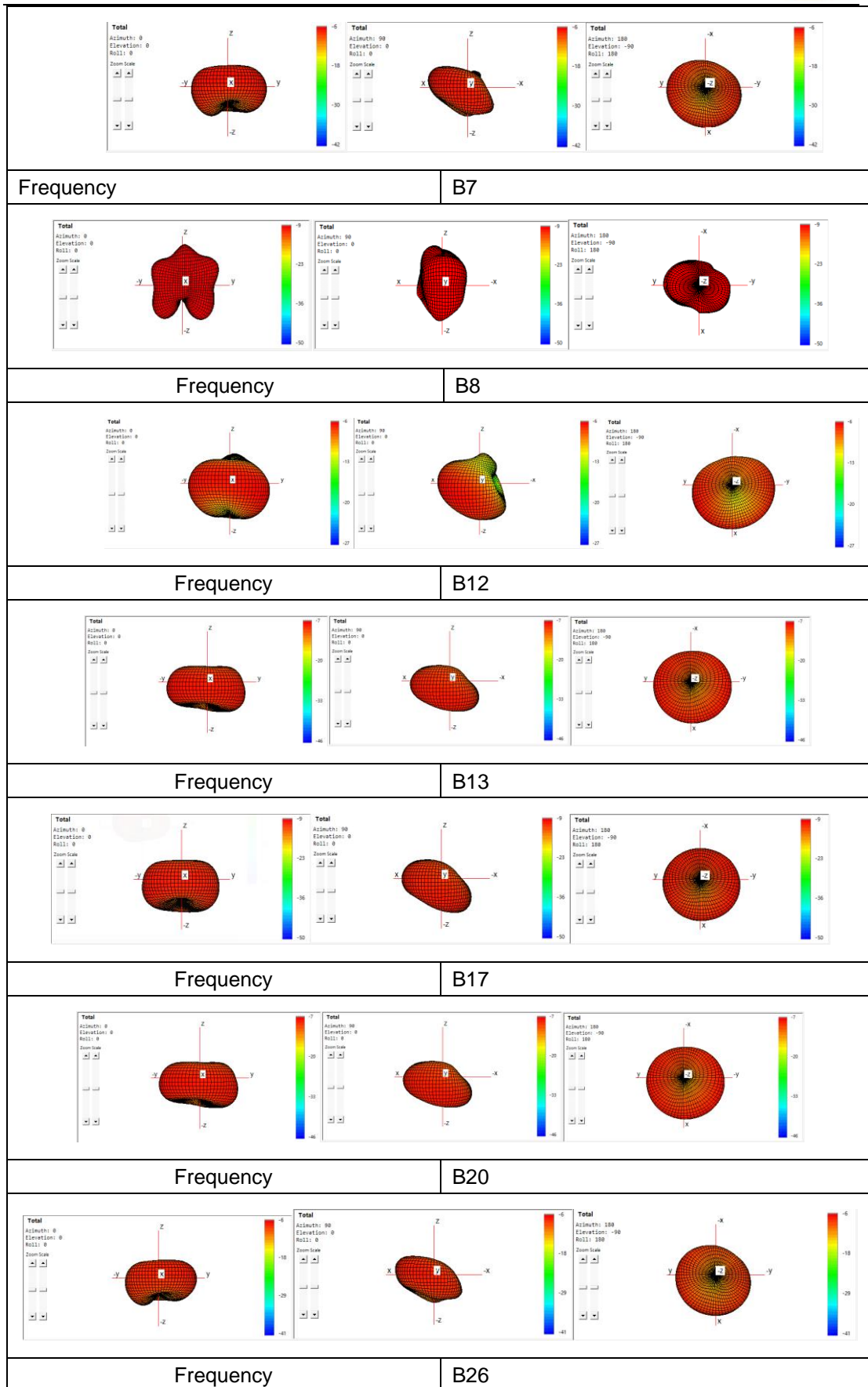
ANT4 S11&SMTH

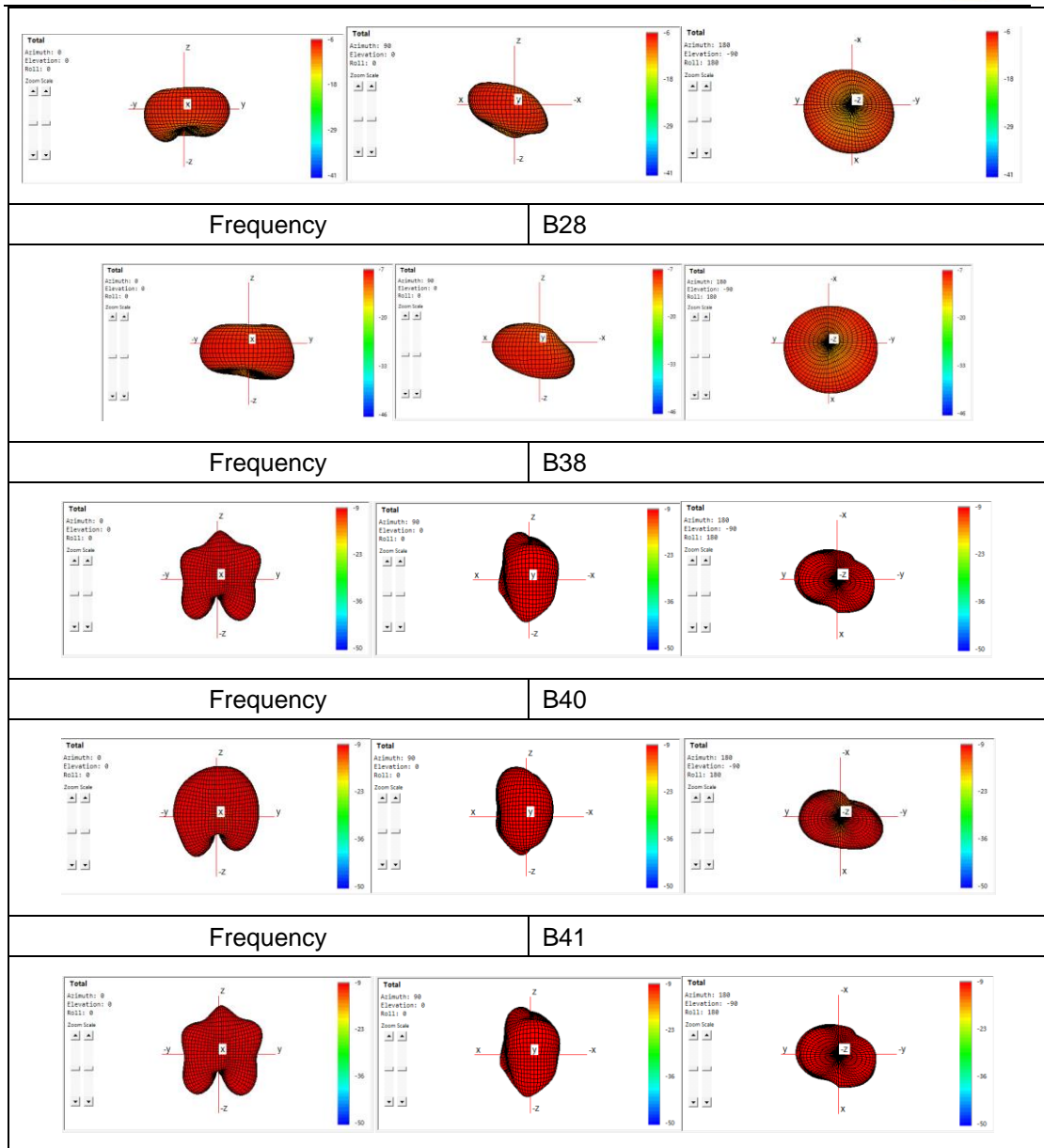




ANT4 directional diagram





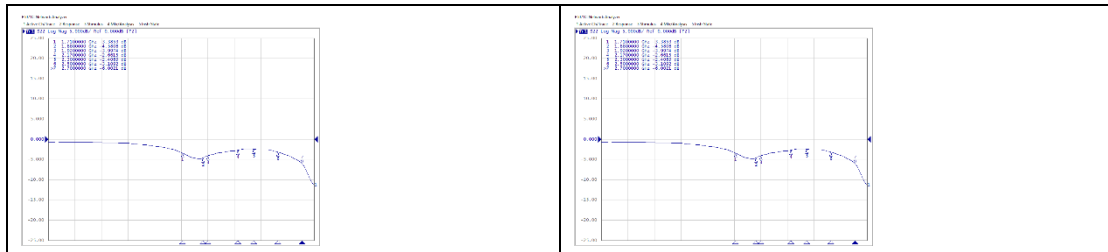


ANT2		efficiency	max peak gain
4G	TTE FDD 1: (1920-1980, 2110-2170)	-8.3	-3.57

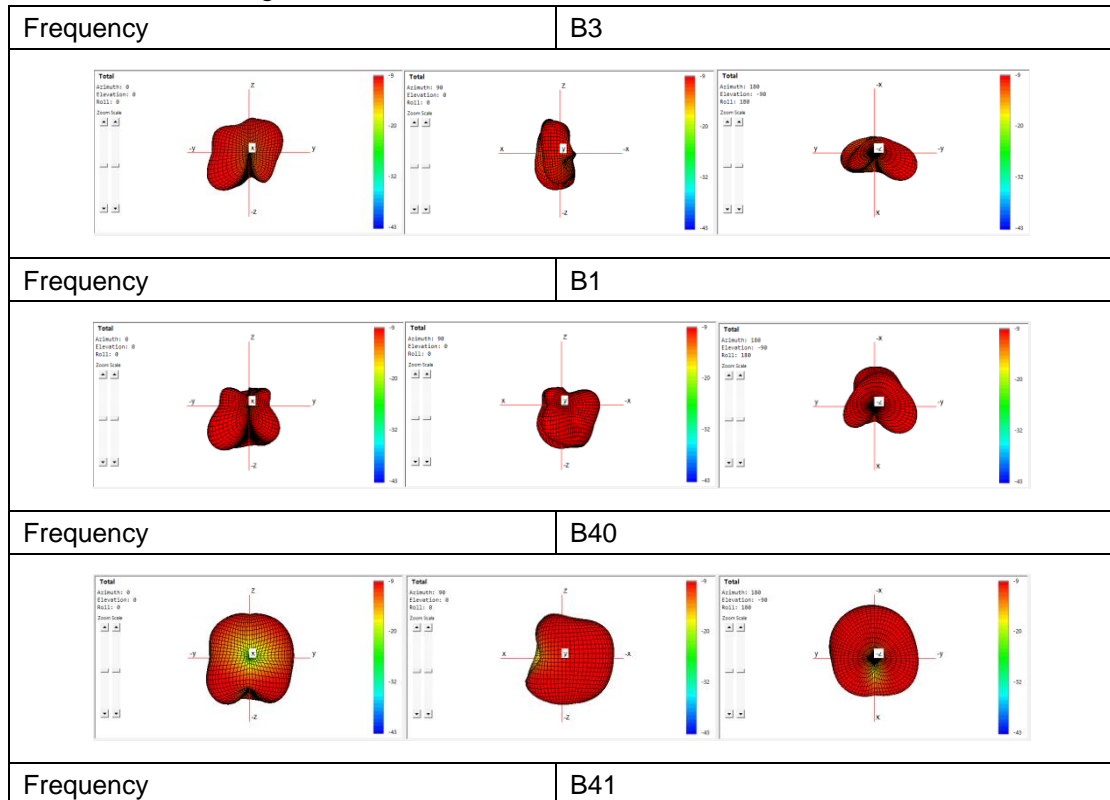


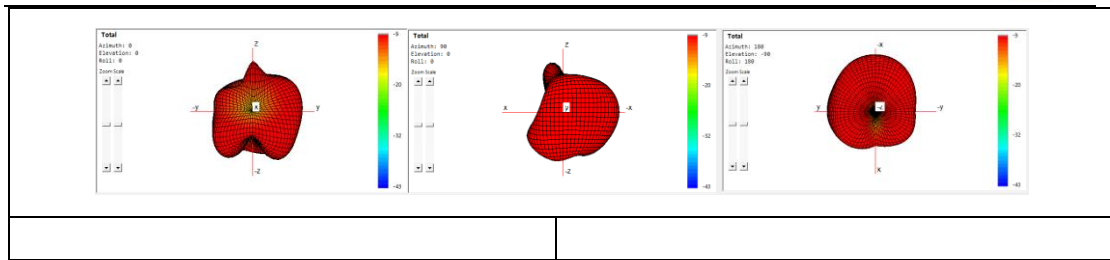
TTE FDD 3: (1710-1785, 1905-1880)	-10.6	-5.1
TTE TDD 40: (2300-2400)	-9.07	-5.44
TTE TDD 41: (2496-2690)	-6.94	-1.72

ANT2S11&SMITH



ANT2 directional diagram

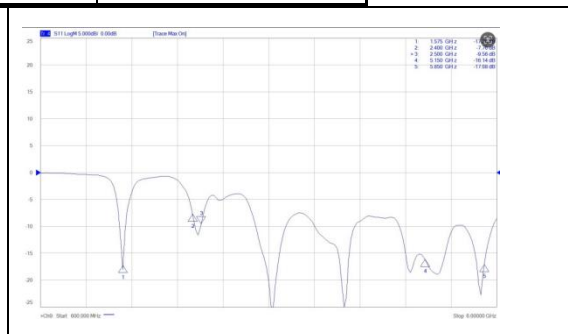




ANT7

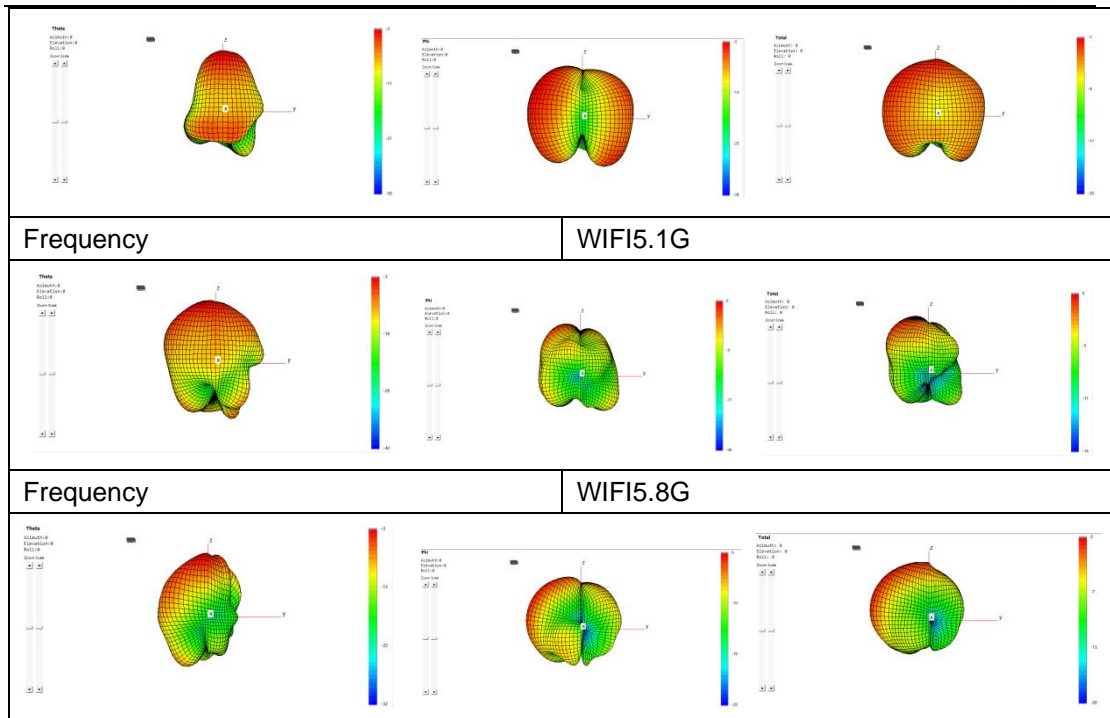
	efficiency	max peak gain
2.4G(2.4-2.5GHZ)	-6.27	-1.14
5G (5.15-5.25GHz)	-5.94	-1.56
5G (5.25-5.35GHz)	-6.03	-1.82
5G (5.47-5.725GHz)	-7.88	-1.89
5G (5.725-5.85GHz)	-7.01	-1.36

ANT7 S11&SMITH



Frequency

WIFI2.4



3、 Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
E5071B	KEYSIGHT	E5071B	EQ60215	2022-4-21	2023-4-20

4、 Test Site

Shanghai



End of Test Report