



深圳市云天智能通讯有限公司

样品承认书 SPECIFICATION FOR APPROVAL

物料描述

Description: LDS-ANT

料号

Part NO: MK0000028B

项目名

Model name: Y3919A

物料类型及材质

Type & Material: LDS-ANT

供应商

Provider Shenzhen HaoTian Technology Co., Ltd.

日期

Date: 2023.11.01

APPROVED BY VENDOR			
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客户 Customers	确认 Confirm	审核 Audit	日期 Date

SPECIFICATION

深圳市浩天诚无线科技有限公司

Shenzhen HaoTian Technology Co., Ltd.

云天智能通讯 Y3919A 天线

Y3919A antenna for Cloud Intelligent communication

产 品 承 认 书

Product acceptance letter

客 户 Guest household	云天智能通讯 Yuntian intelligent communication	频 段 Frequency band	WCDMA+850/900/1700/1900/2100 LTE-FDD,B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28/71 LTE-TDD-B38/39/40/41+GPS/WIFI/BT
机种名称 Name of machine	Y3919A	版 本 Edition	V1.1
R F 设计 R F design	肖强 Xiao Qiang	结构设计 Structural design	黄振明 Huang Zhenming
技术总监 Technical director		日 期 Date	2023-11-1

客户确认 Customer confirmation:

供方名称:深圳市浩天诚无线科技有限公司

Supplier name:Shenzhen Haotiancheng wireless technology Co., LTD

供方地址:深圳市宝安区留仙一路二巷百财科技园 L 栋 5E

Supplier addres:5E, Building L, Baicai Science Park, Lane 2, Liuxian 1st Road, Baoan District, Shenzhen

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1. 承认书概述/Summary of admission

该承认书描述了云天智能通讯有限公司 Y3919A 内置天线、其频段 WCDMA4 频+LTE-FDD/TDD+GPS/WIFI/BT 状况;厂家为深圳浩天诚无线科技有限公司。

The admission describes the Y3919A built-in antenna, its frequency band WCDMA4 +LTE-FDD/TDD+GPS/WIFI/BT status; The manufacturer is Shenzhen Haotiancheng Wireless Technology Co., LTD.

2. 天线位置/Antenna position

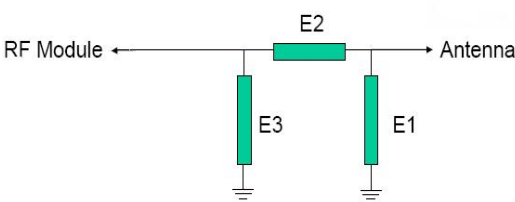


3. 电性能/Electrical property

3.1. 天线频段/Antenna band

	WCDMA	4G	WIFI&BT	GPS
发射频段(MHz) Transmitting band(MHz)	824~1980	700~2690	2.4G~5G	
接收频段(MHz) Receiving frequency band (MHz)	869~2170	700~2690	2.4G~5G	1575

3.2. 匹配电路/Matching circuit



Element	Value
E1(0402)	0.75PF
E2(0402)	0 欧
E3(0402)	6.8nH

射频调谐开关逻辑/Rf tuning switch logic	
RF1 : 8.2pF	控制/Controls WCDMA B8 LTE-B8/B19/B26
RF2 : 0欧	控制/Controls WCDMA B1/B2/B4/B5 LTE-B1/B2/B3/B4/B5/B7/B18/B20/B25/B38/B39/B40/B41
RF3 : 12nH	控制/Controls LTE- B12/17/B28
RF4 : 33nH	控制/Controls LTE- B71

3.3. 阻抗要求/Impedance requirement
50 ohm

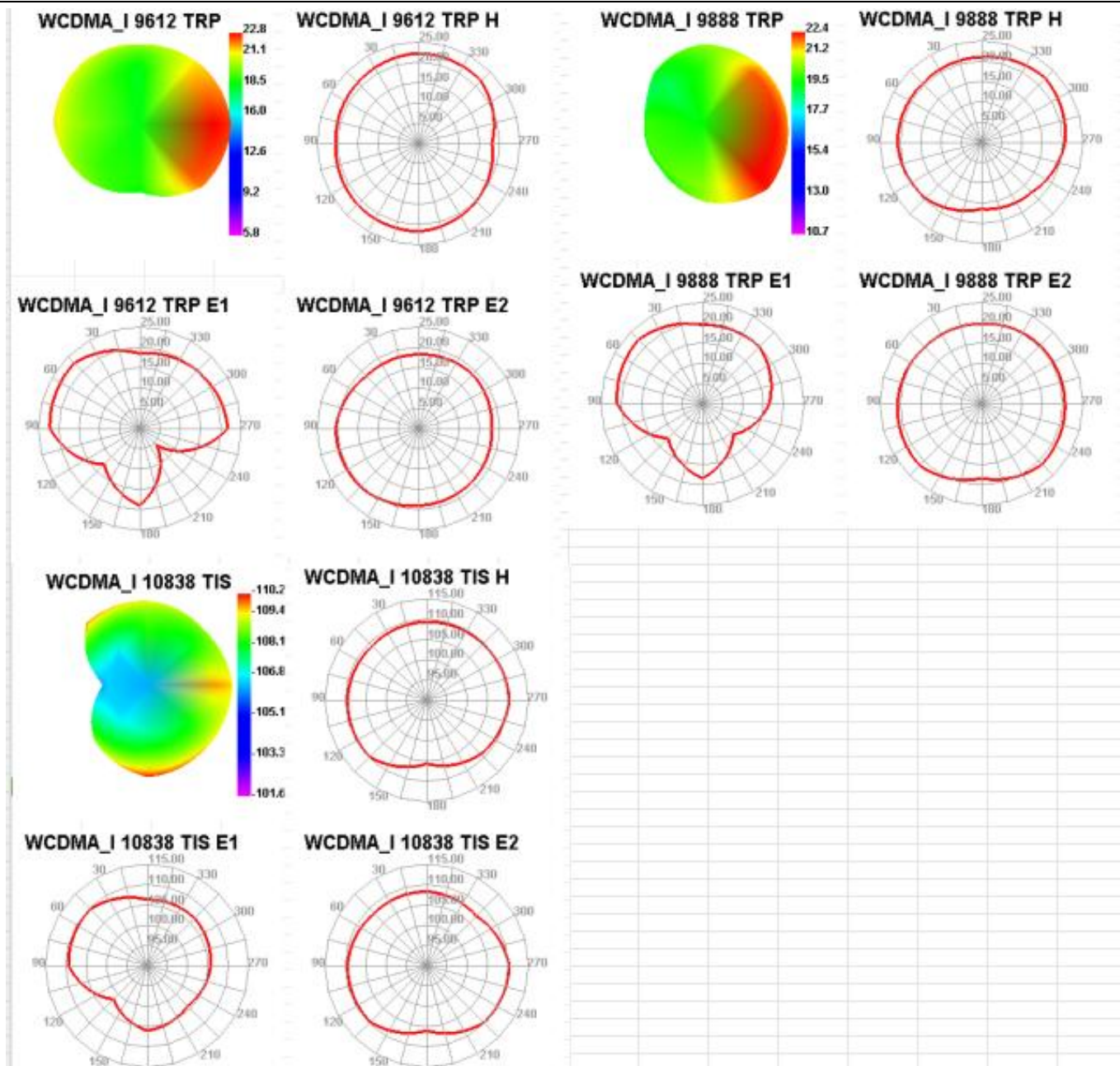
3.4. 在微波暗室中，测试数据(增益、苹果图)如下表:

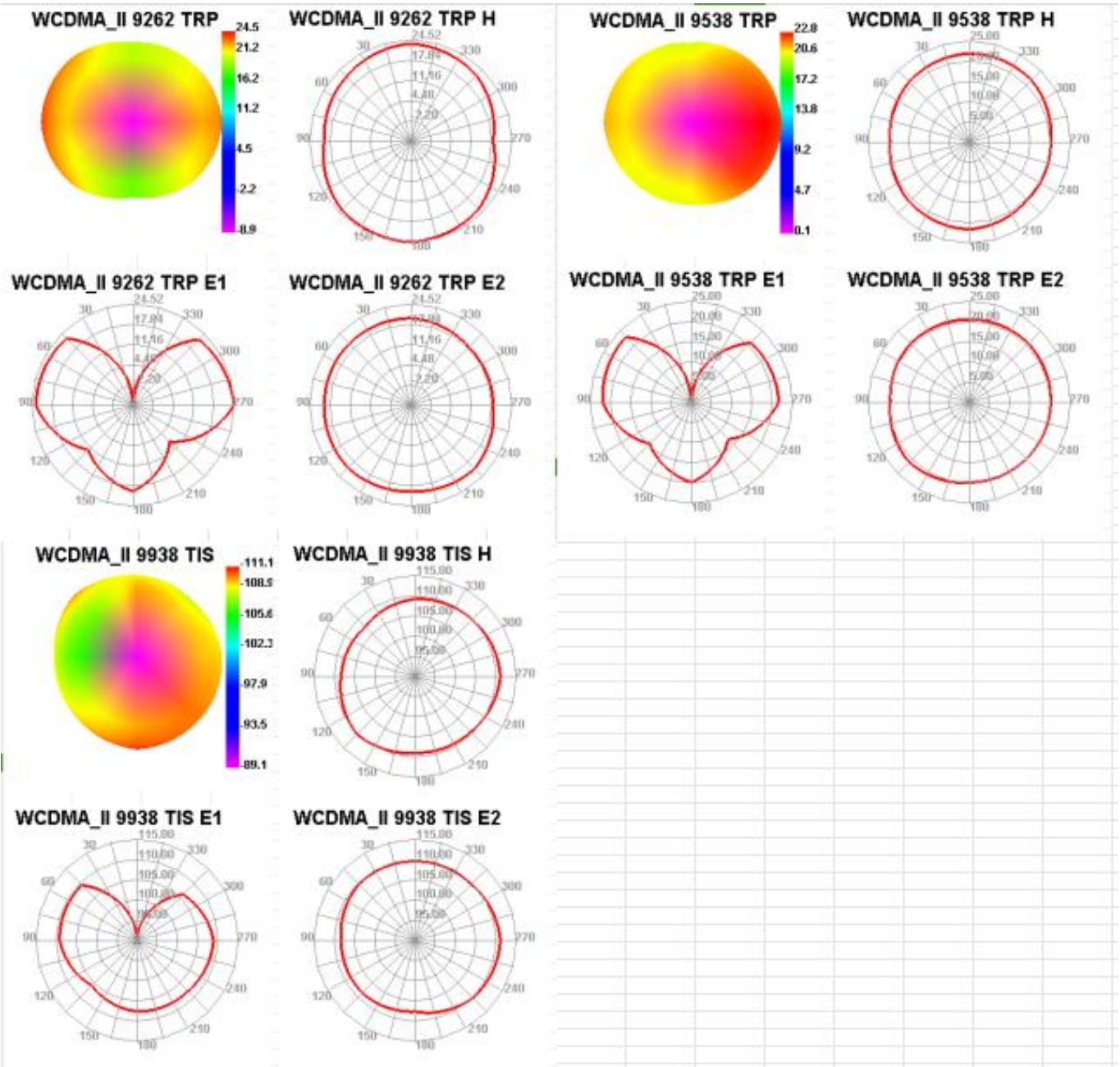
In the microwave darkroom, the test data (gain, apple chart) are as follows:

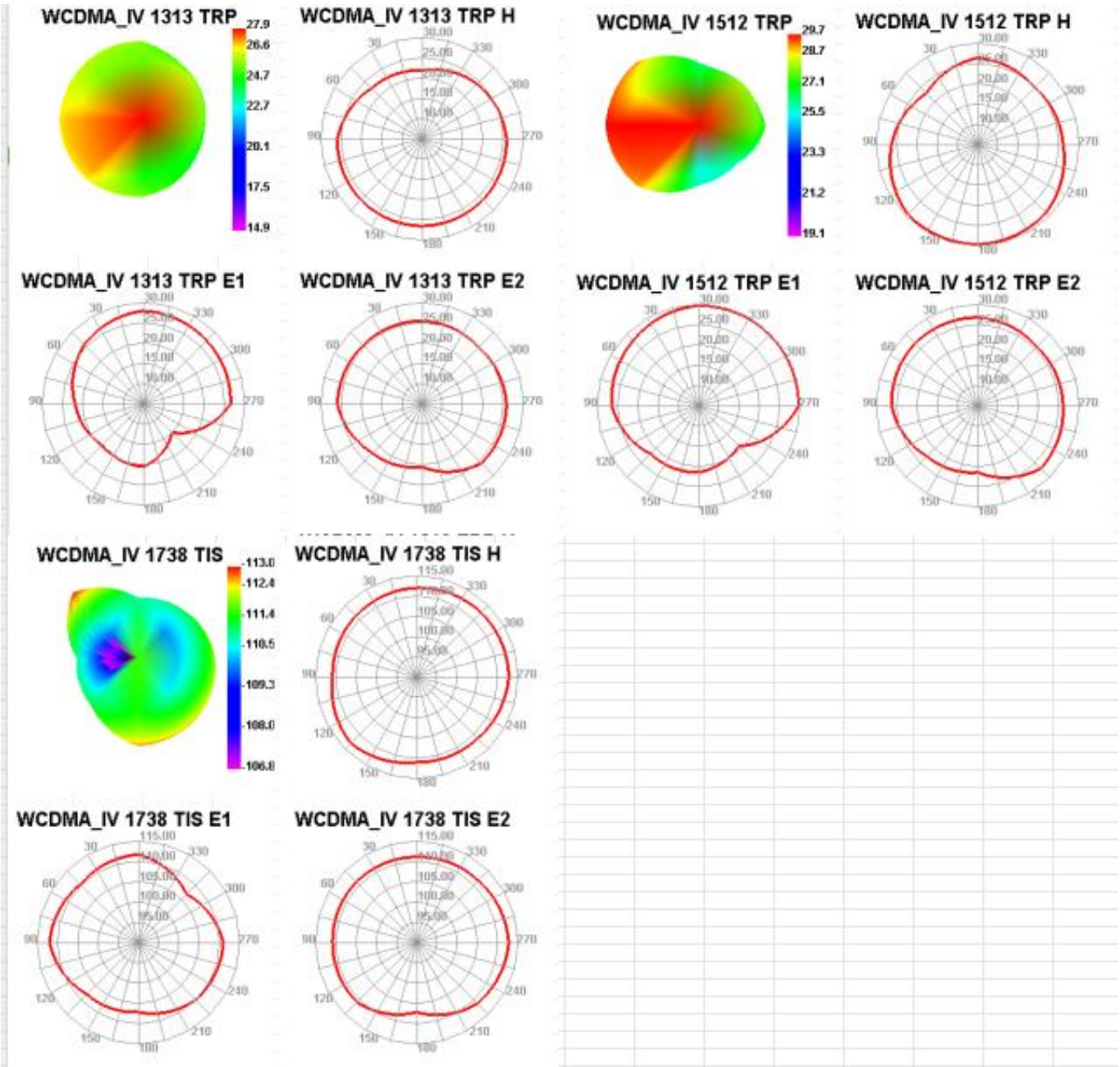
Band	TRP/TIS	L	M	H	Band	TRP/TIS	L	M	H
WCDMA850	TRP	19.04	19.74	19.98	LTE-B7	TRP	19.15	19.38	20.23
	TIS			-106.21		TIS			-93.28
WCDMA900	TRP	19.57	19.68	20.12	LTE-B8	TRP	19.31	19.25	19.39
	TIS			-106.04		TIS			-91.80
WCDMA1700	TRP	19.57	19.82	20.15	LTE-B12	TRP	15.14	15.25	15.35
	TIS			-105.74		TIS			-90.37
WCDMA1900	TRP	20.59	19.84	19.73	LTE-B17	TRP	15.16	15.24	15.31
	TIS			-106.70		TIS			-90.39
WCDMA2100	TRP	19.95	19.75	20	LTE-B18	TRP	18.11	18.39	18.88
	TIS			-106.88		TIS			-92.53
LTE-B1	TRP	19.15	19.35	19.56	LTE-B19	TRP	19.06	19.75	20.41
	TIS			-94.34		TIS			-92.54
LTE-B2	TRP	20.19	19.35	19.13	LTE-B20	TRP	19.83	19.95	20.01
	TIS			-93.68		TIS			-90.87
LTE-B3	TRP	20.71	20.45	20	LTE-B25	TRP	20.02	19.75	19.32
	TIS			-94		TIS			-93.33
LTE-B4	TRP	19.68	19.86	20.29	LTE-B26	TRP	18.58	19.36	20.14
	TIS			-93.04		TIS			-92.20
LTE-B5	TRP	18.96	19.35	19.52	LTE-B28	TRP	15.27	16.52	17.48
	TIS			-90.73		TIS			-90.90

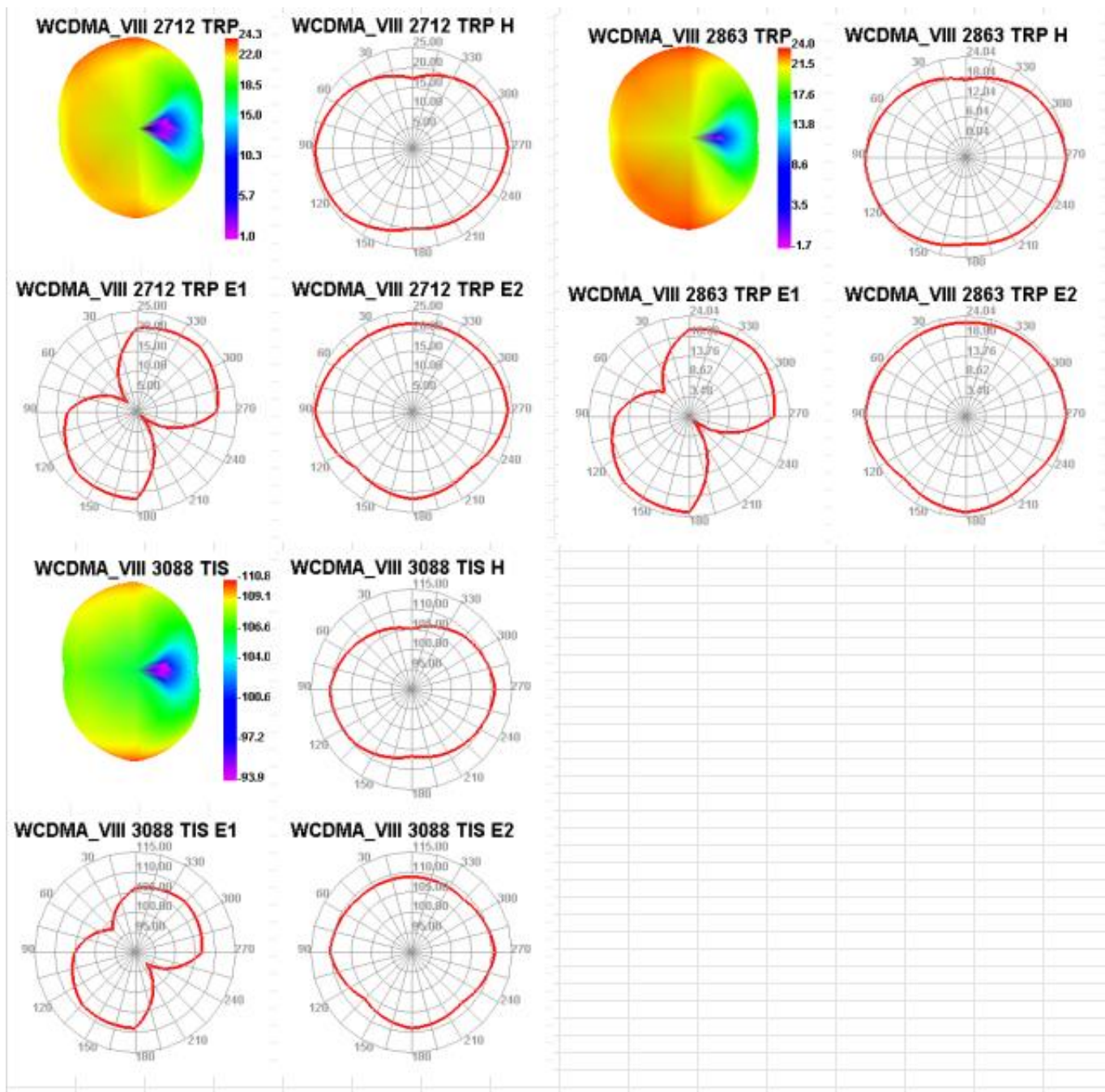
Band	TRP/TIS	L	M	H
LTE-B38	TRP	18.94	19.23	19.79
	TIS			-92.99
LTE-B39	TRP	19.18	19.05	18.98
	TIS			-93.26
LTE-B40	TRP	18.73	18.35	17.43
	TIS			/
LTE-B41	TRP	20.26	19.86	19.72
	TIS			-93.42
LTE-B71	TRP	14.26	14.38	14.50
	TIS			-90.17

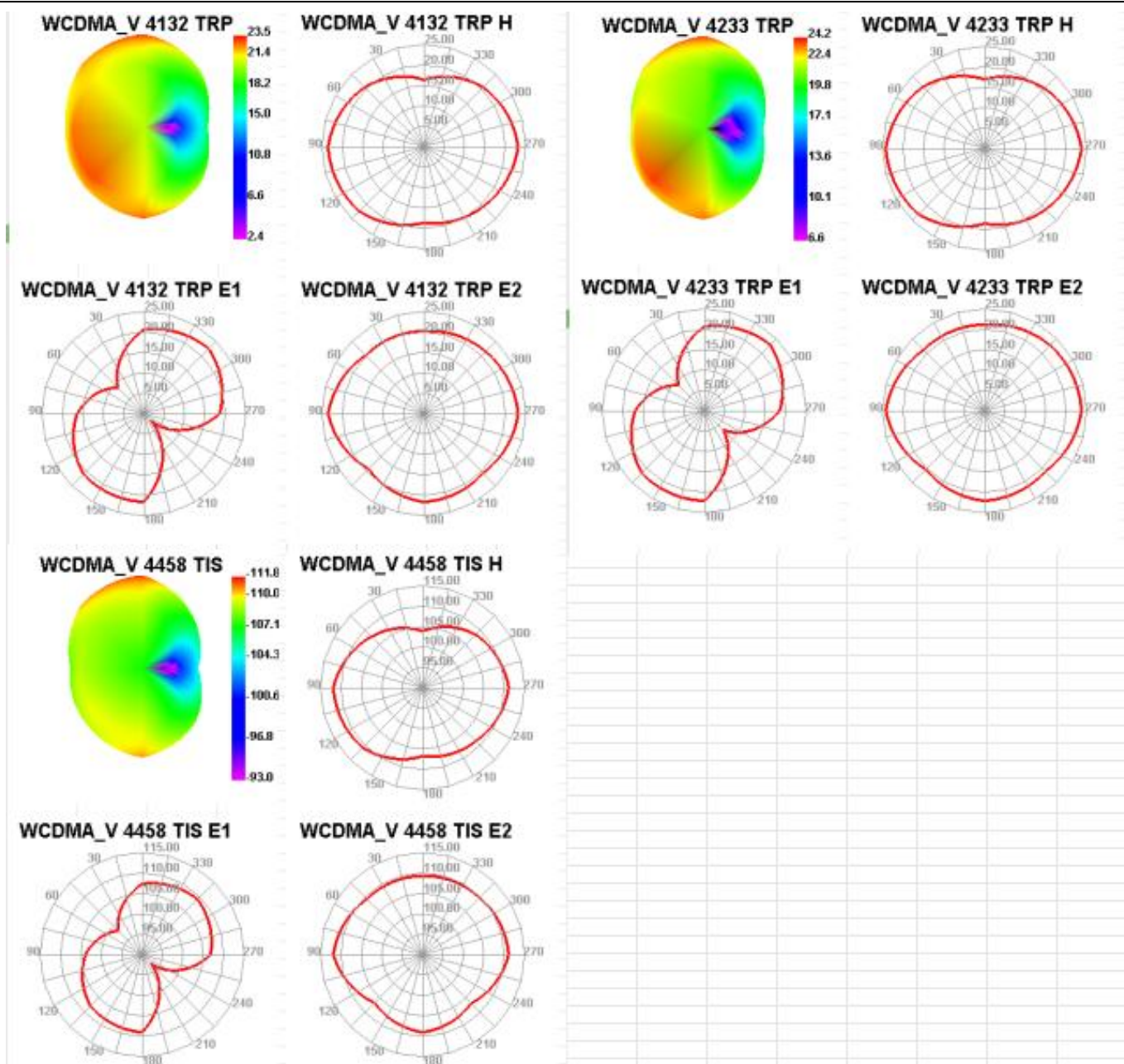
频段 Frequency band	Peak Gain(dBi)	频段 Frequency band	Peak Gain(dBi)	频段 Frequency band	Peak Gain(dBi)
Band-1	1.7	Band-25	1.6	GPS	0.9
Band-2	1.6	Band-26	-0.5	WIFI/BT	1.2
Band-3	1.8	Band-28	-1.8	Band-41	2.1
Band-4	1.8	Band-71	-2.2		
Band-5	-0.3	Band-38	2.1		
Band-7	1.5	Band-39	1.6		
Band-8	0.6	Band-40	1.9		
Band-12	-1.9	WCDMA850	-0.3		
Band-17	-1.8	WCDMA900	0.6		
Band-18	-0.5	WCDMA1700	1.8		
Band-19	-0.3	WCDMA1900	1.6		
Band-20	-0.3	WCDMA2100	1.7		

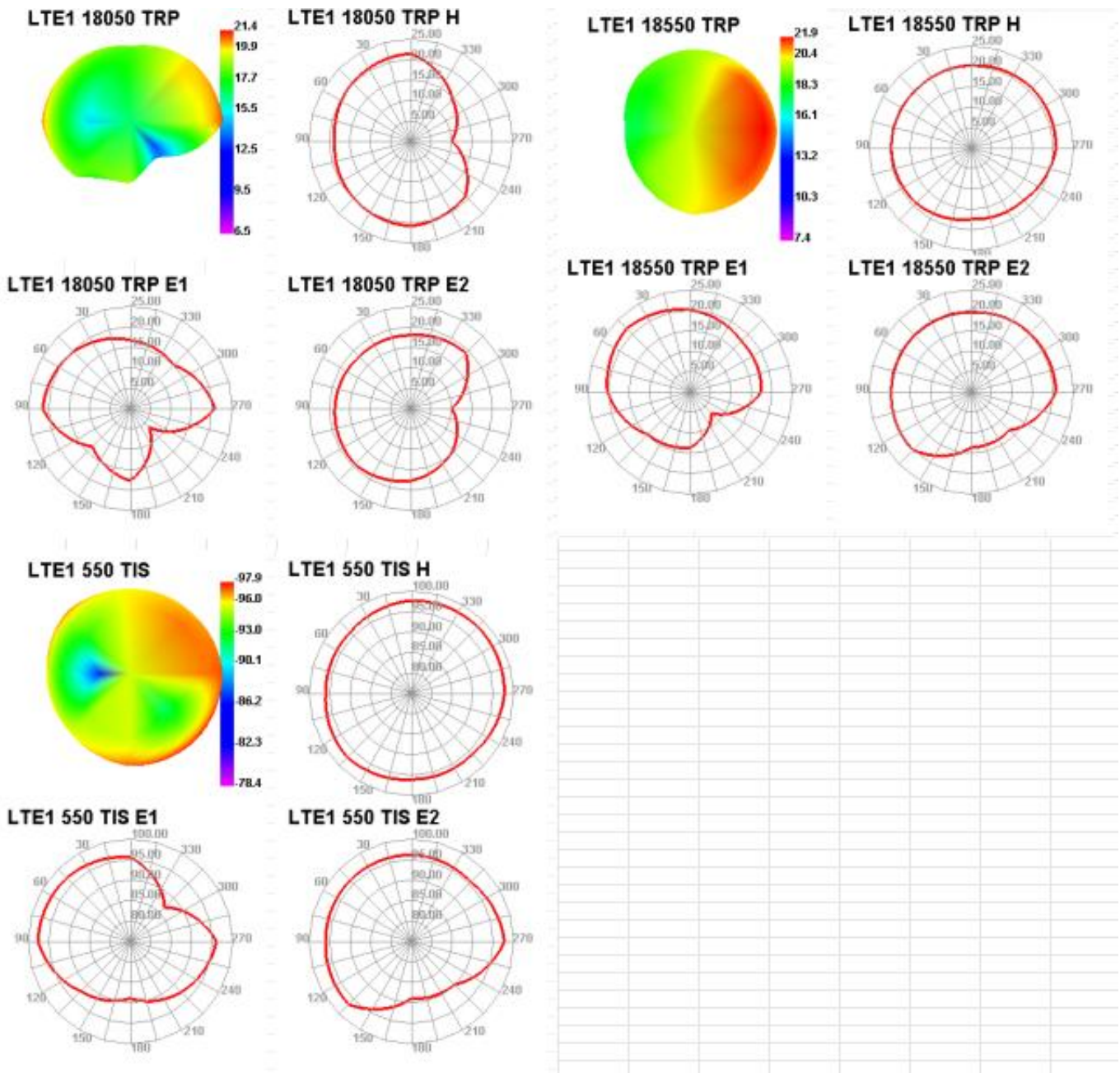


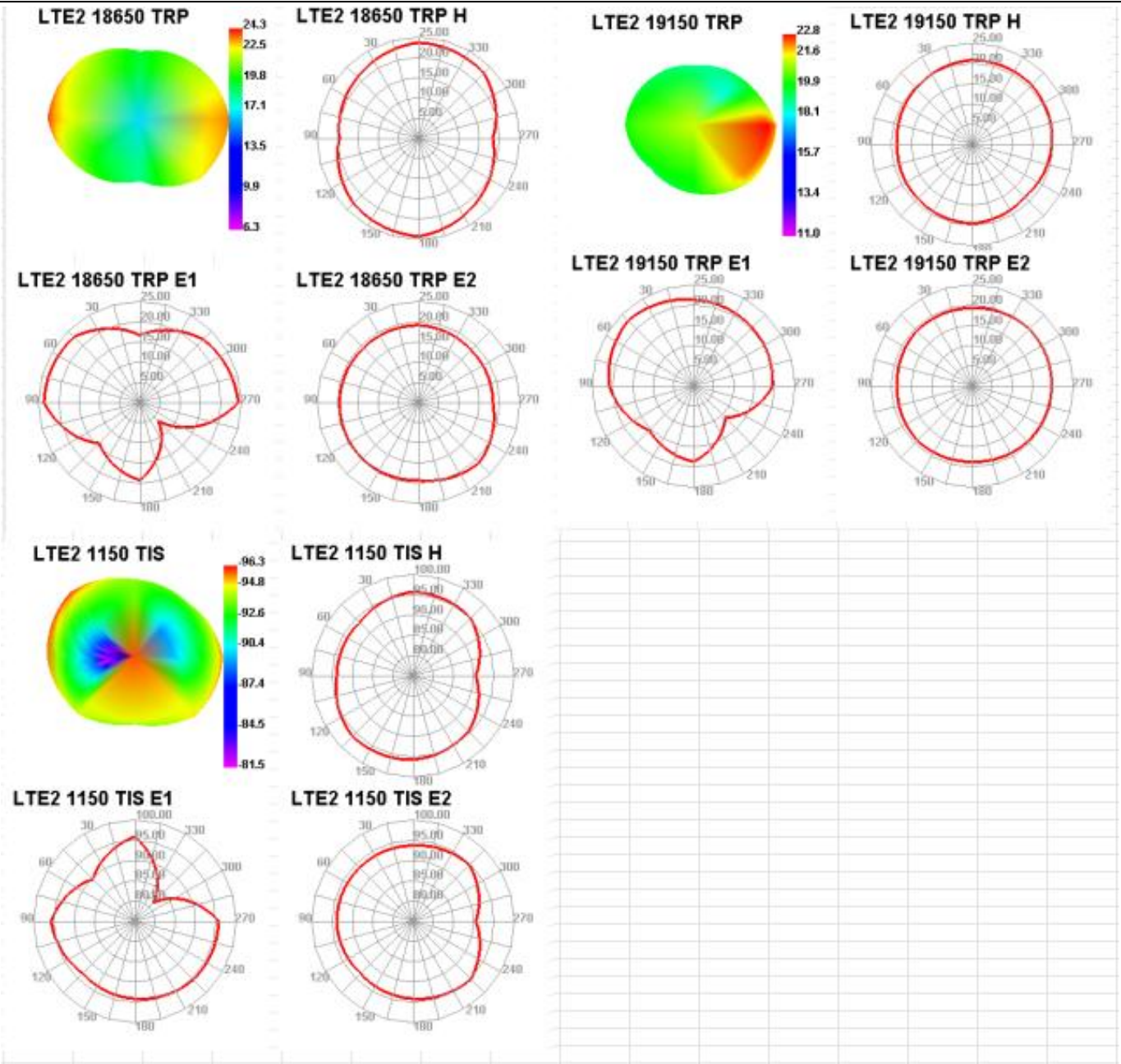


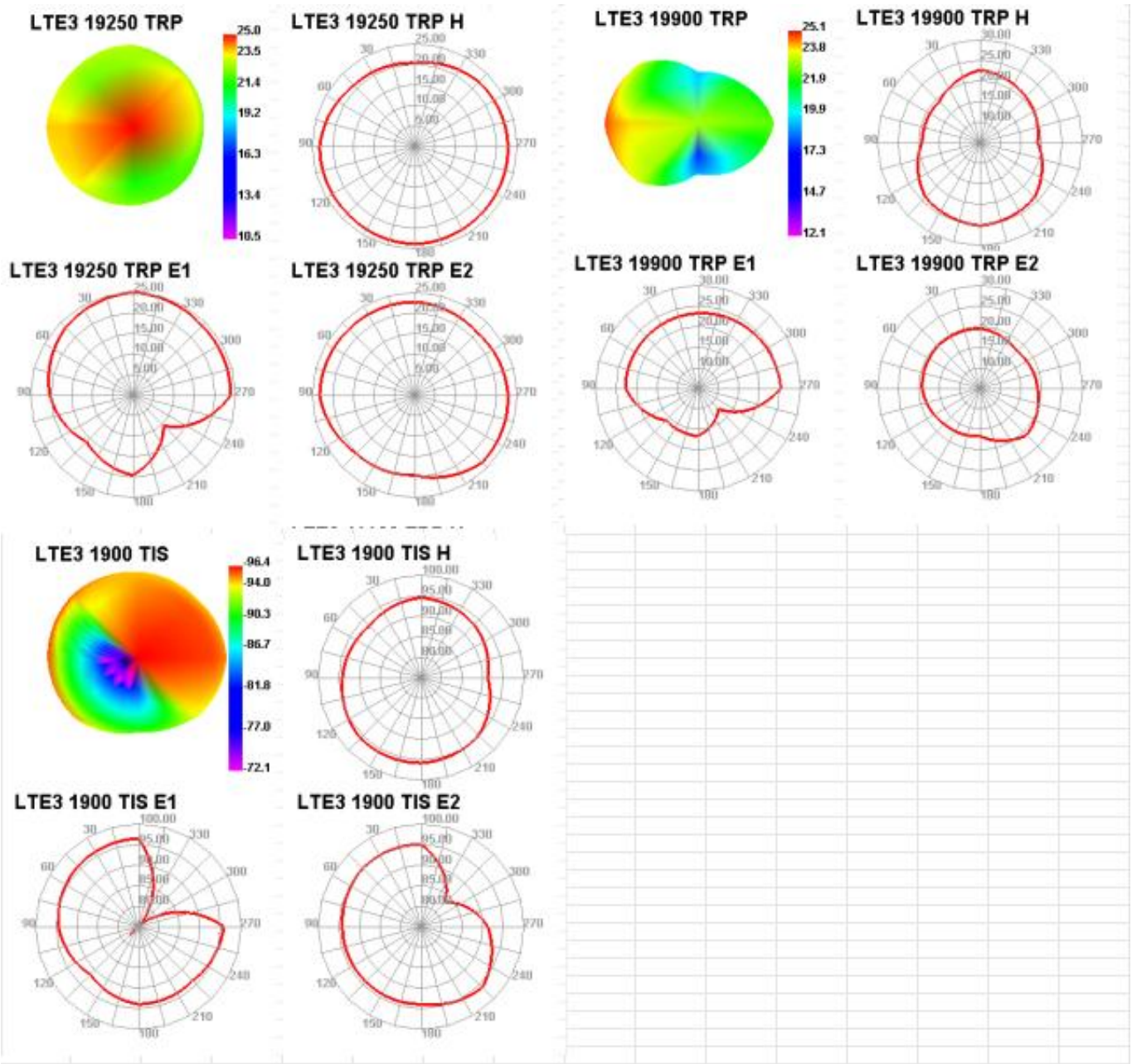


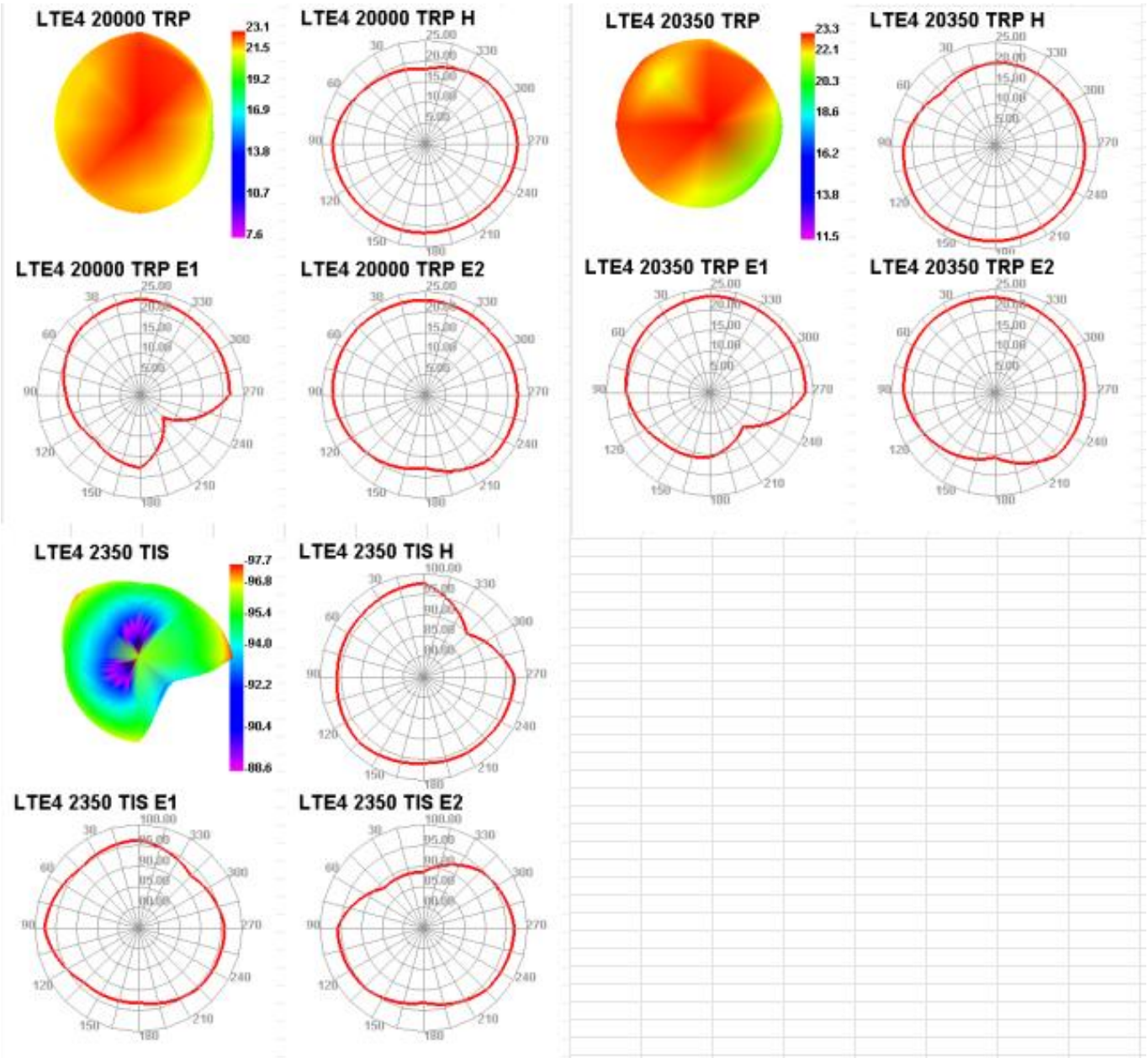


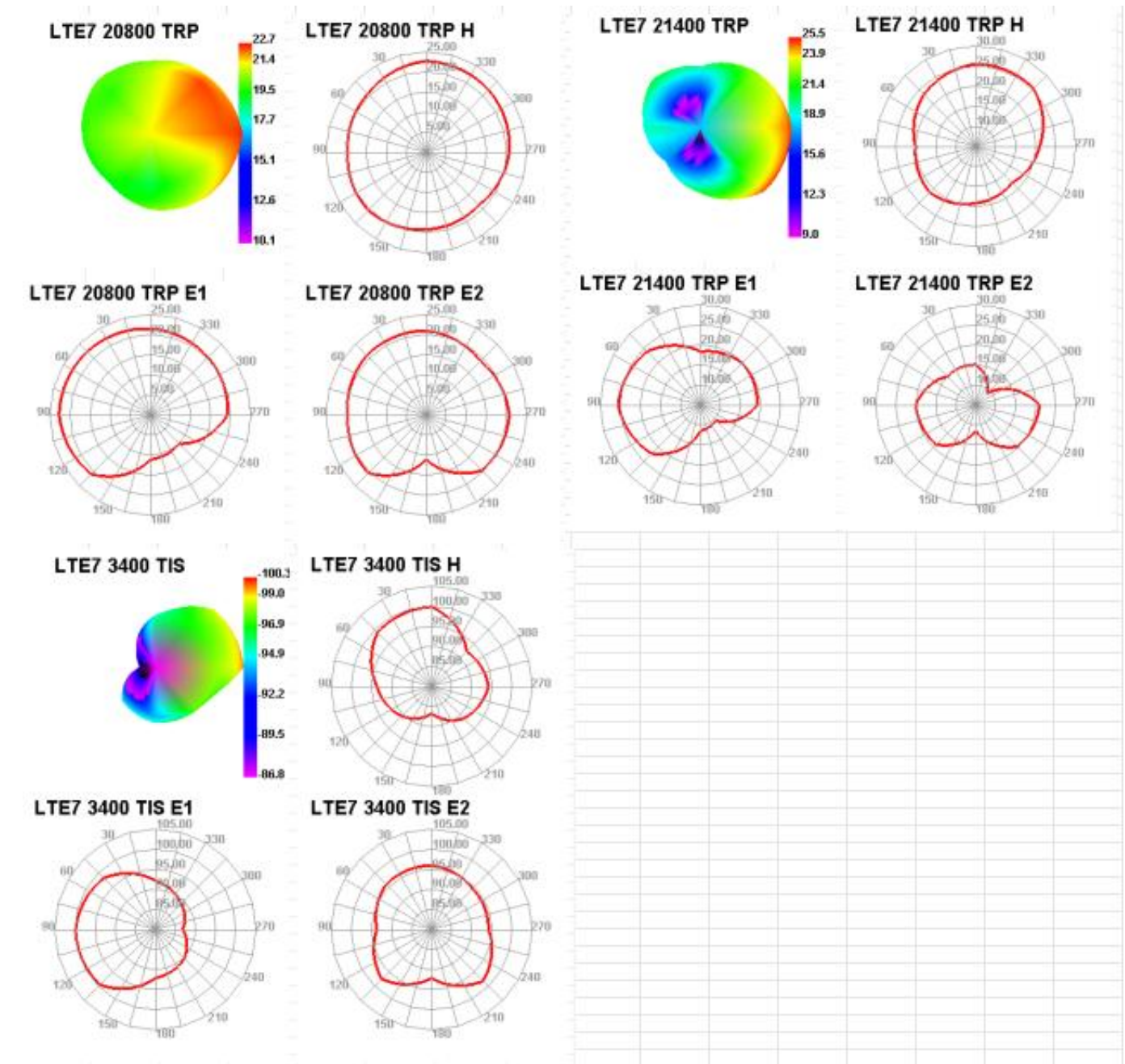


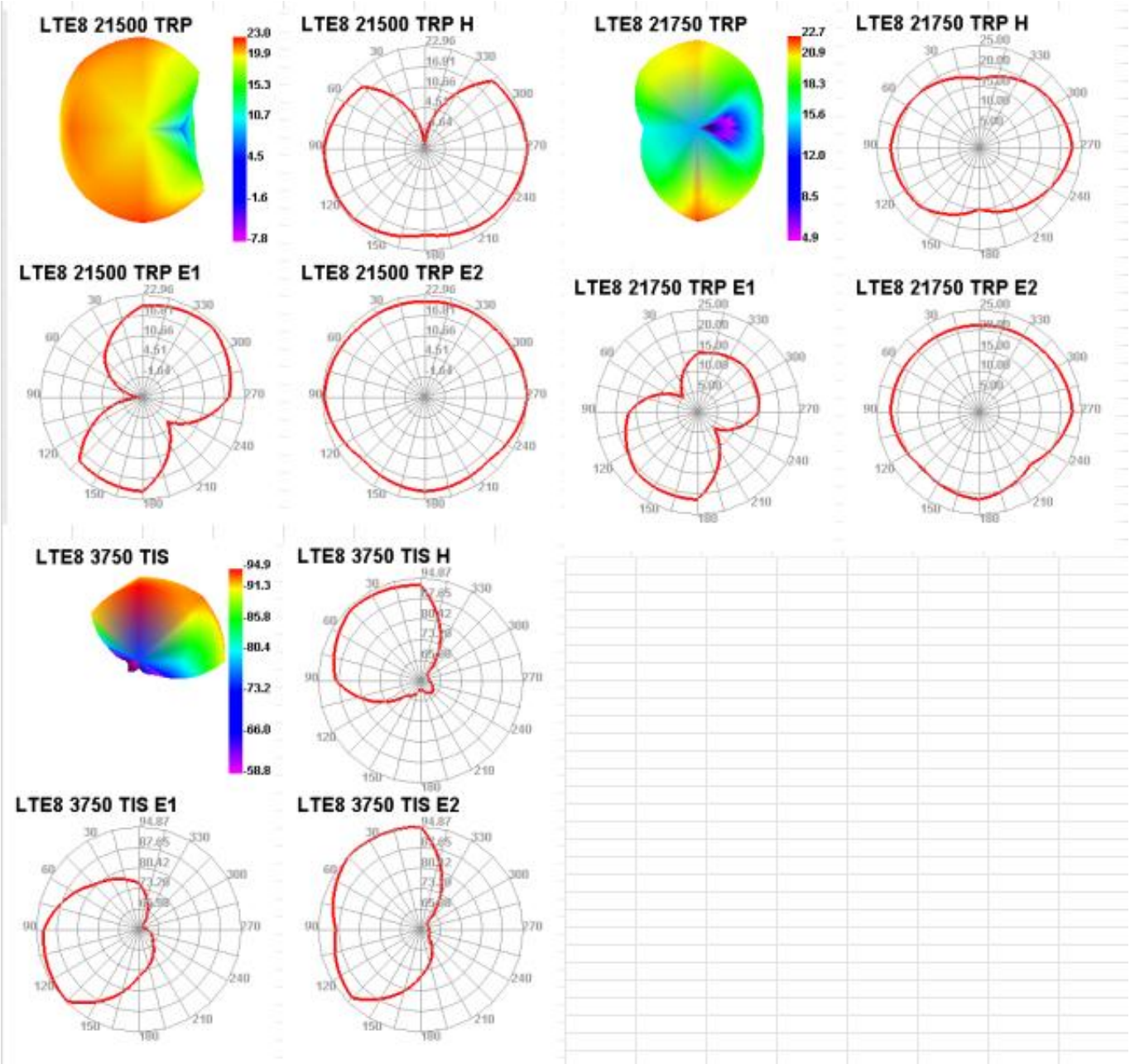


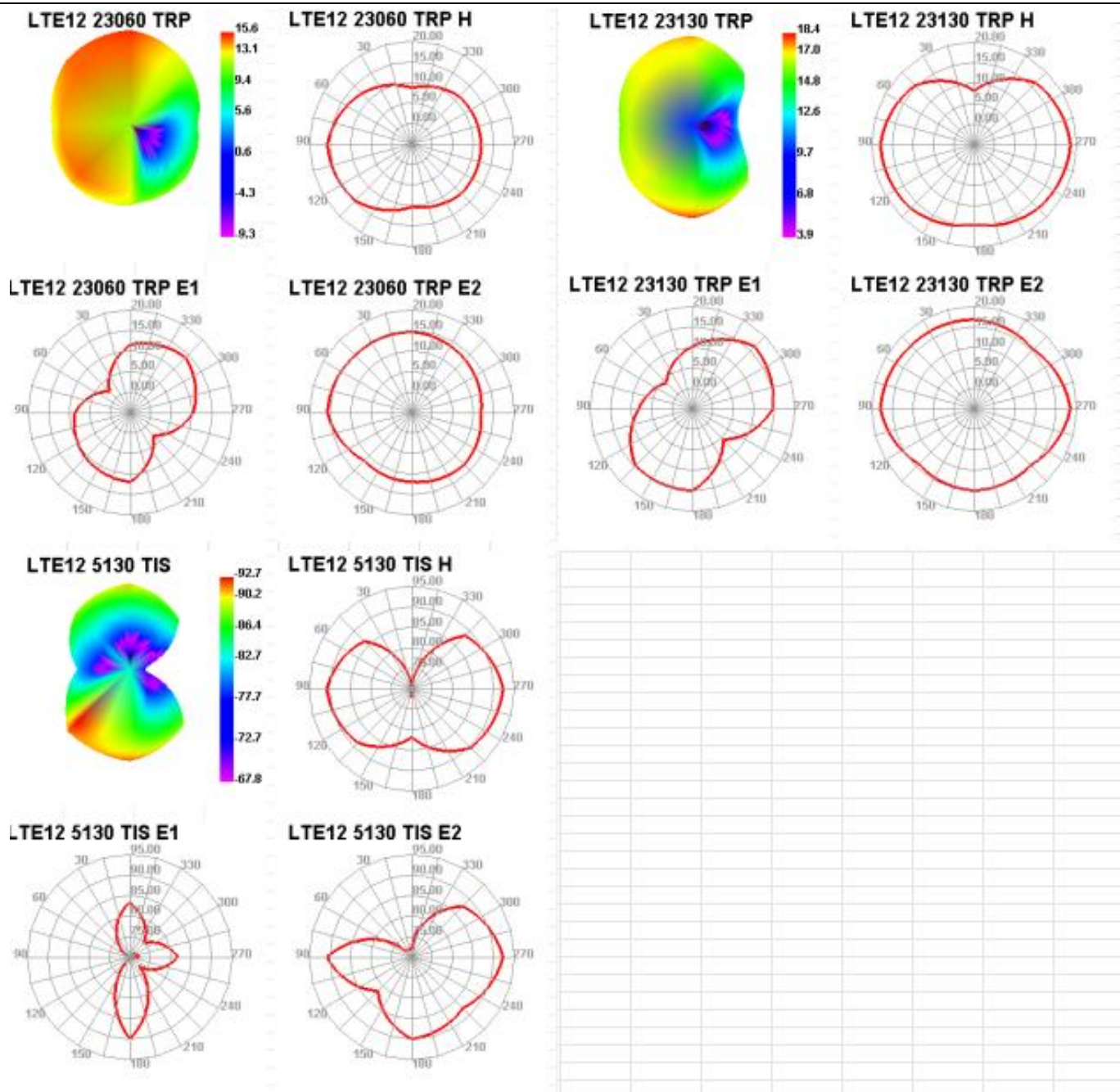


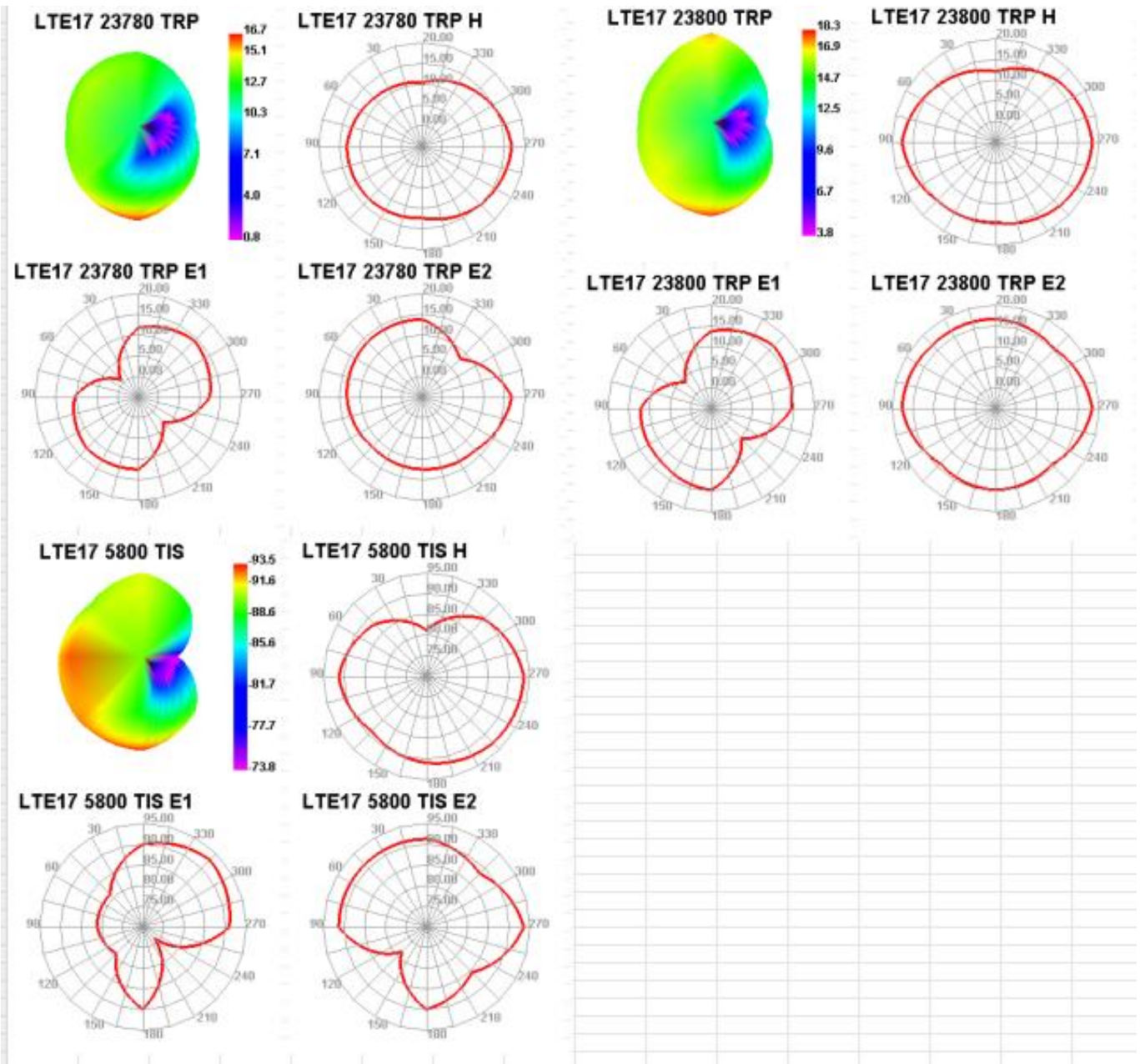


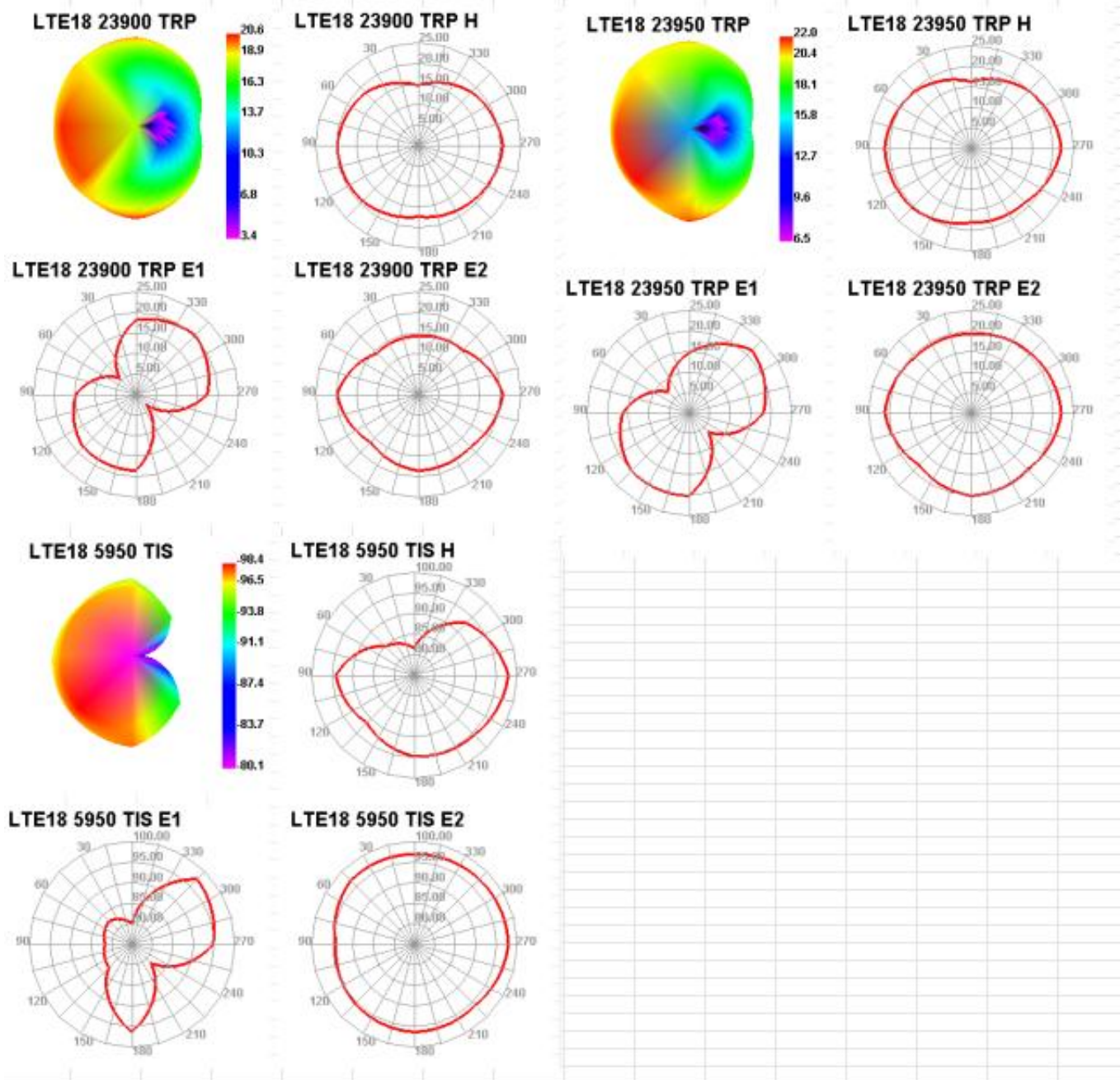


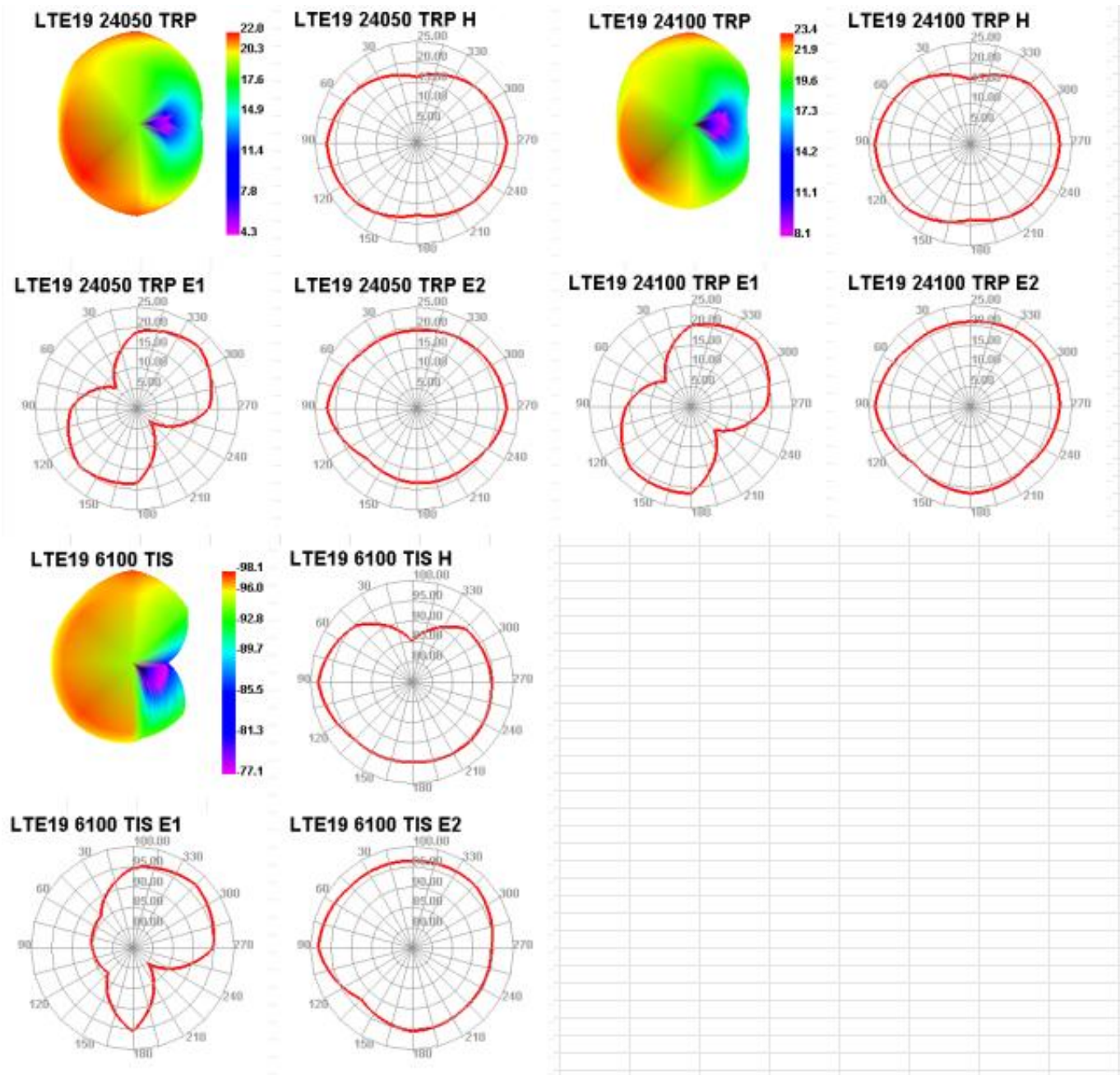


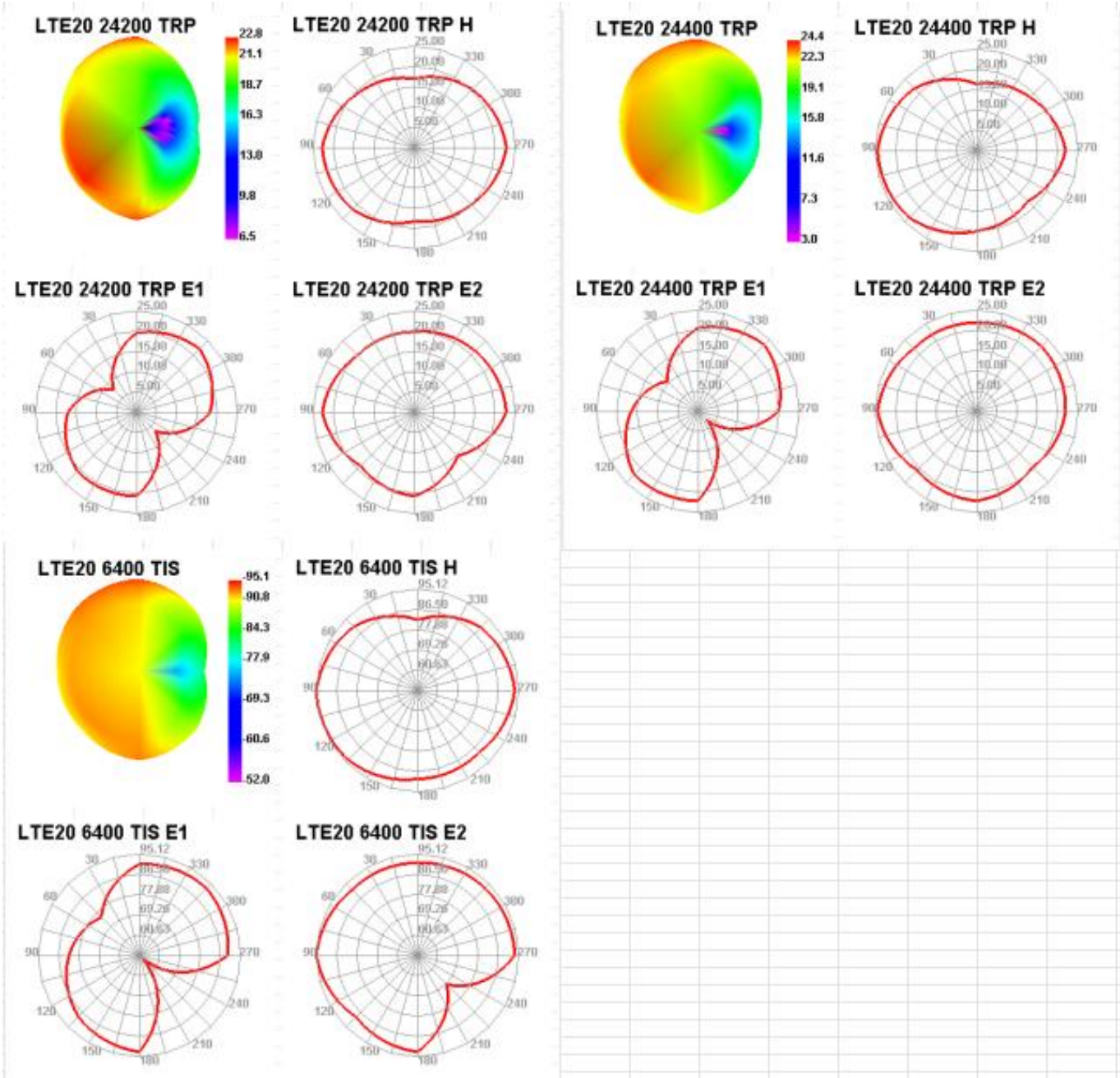


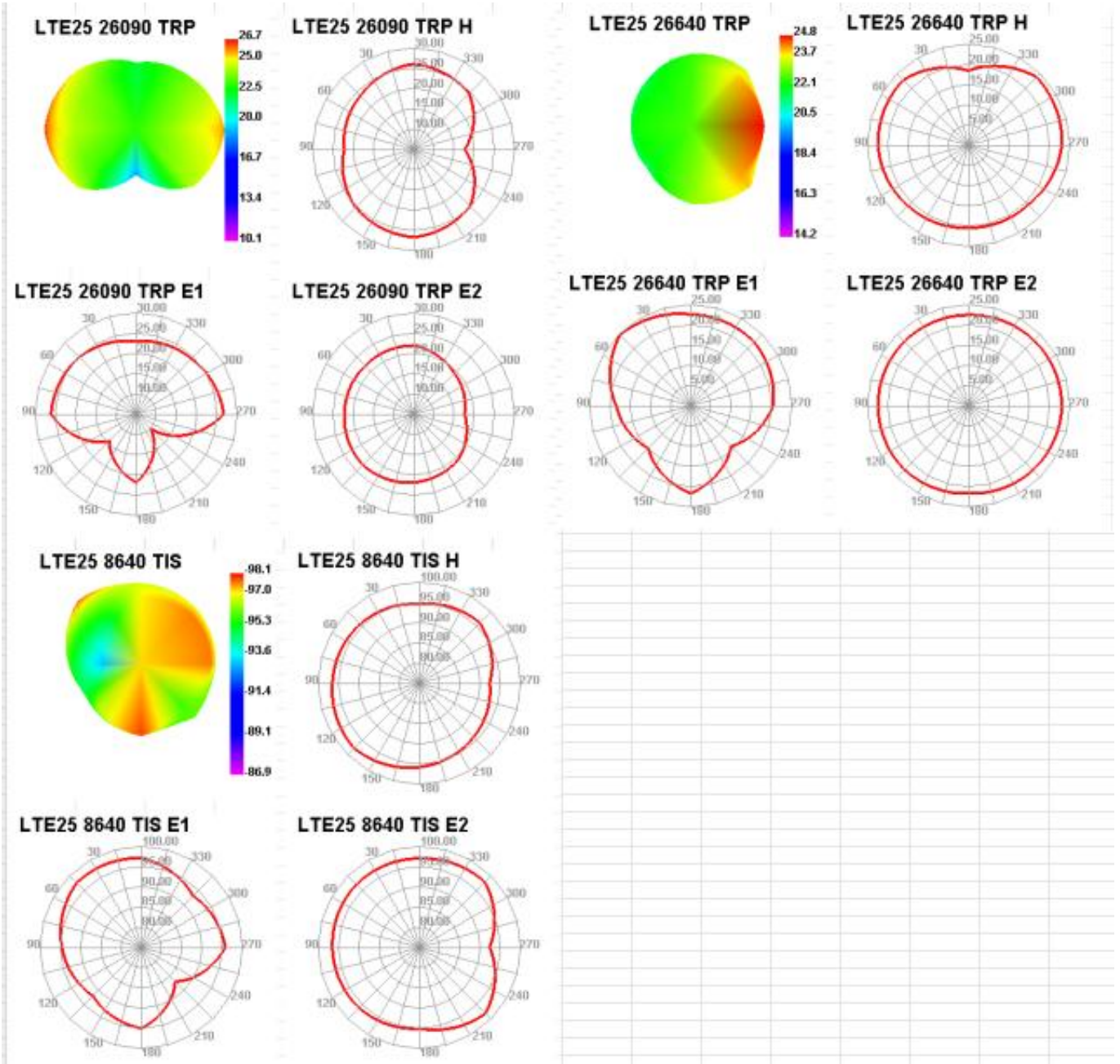


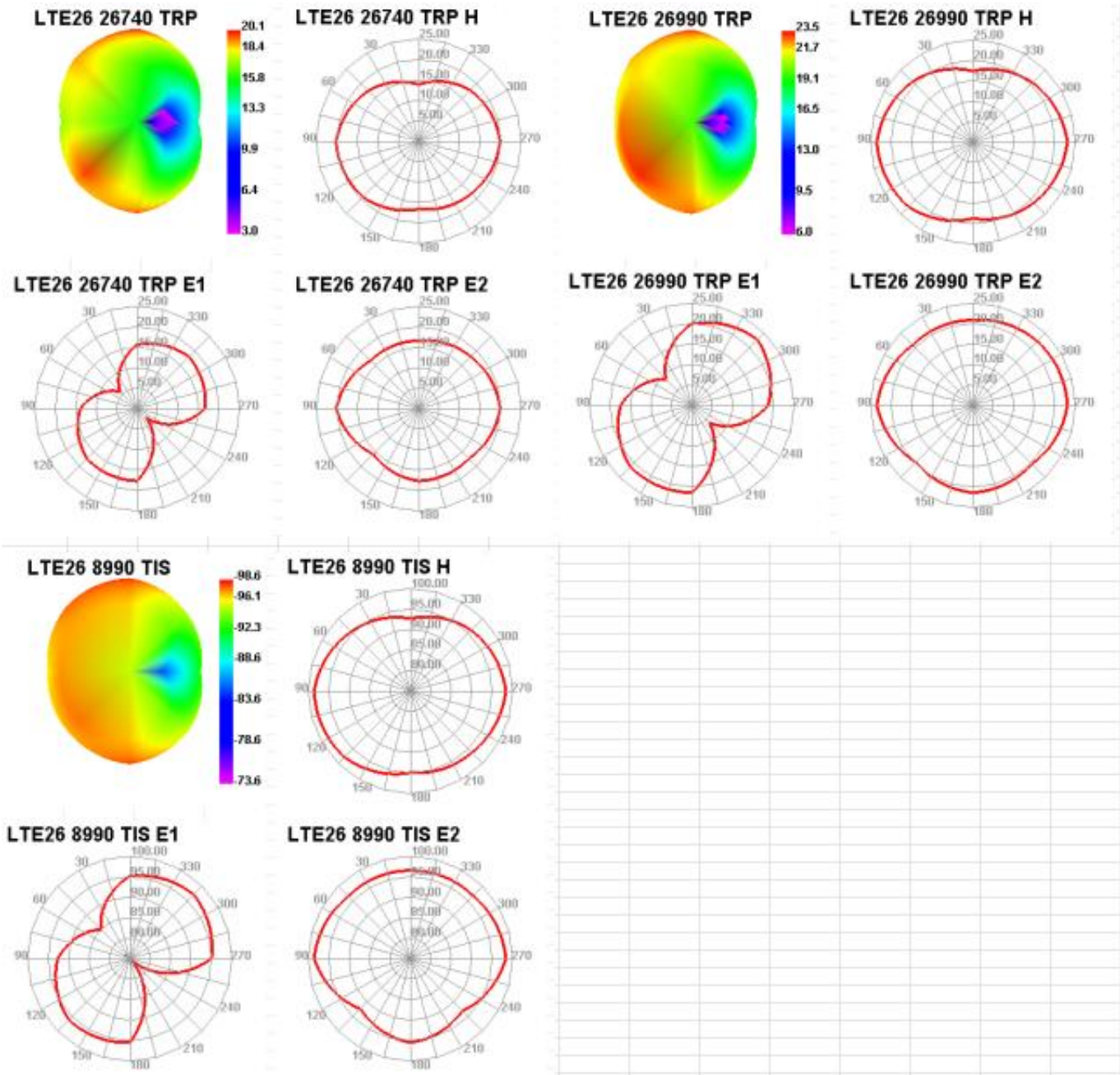


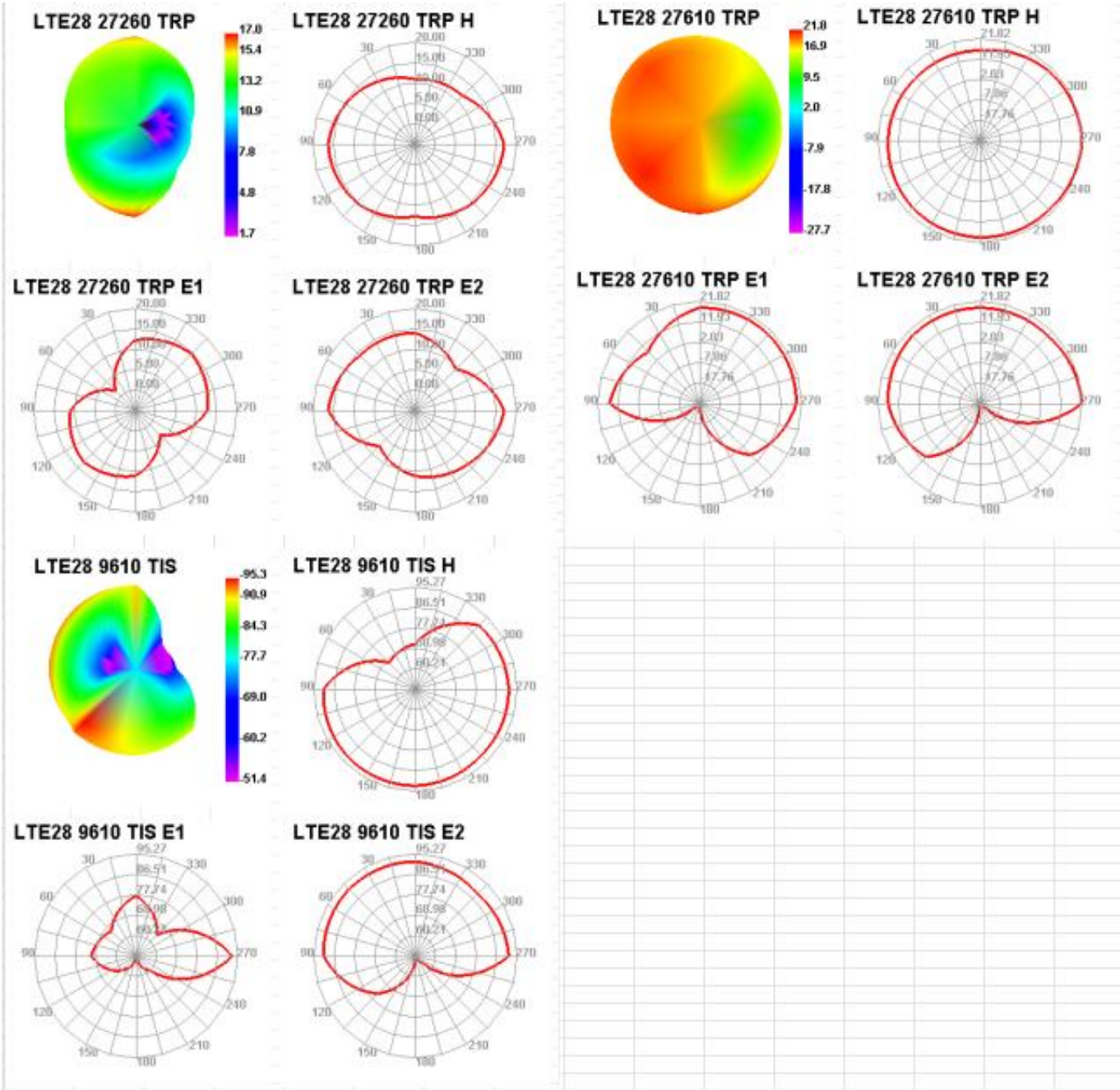


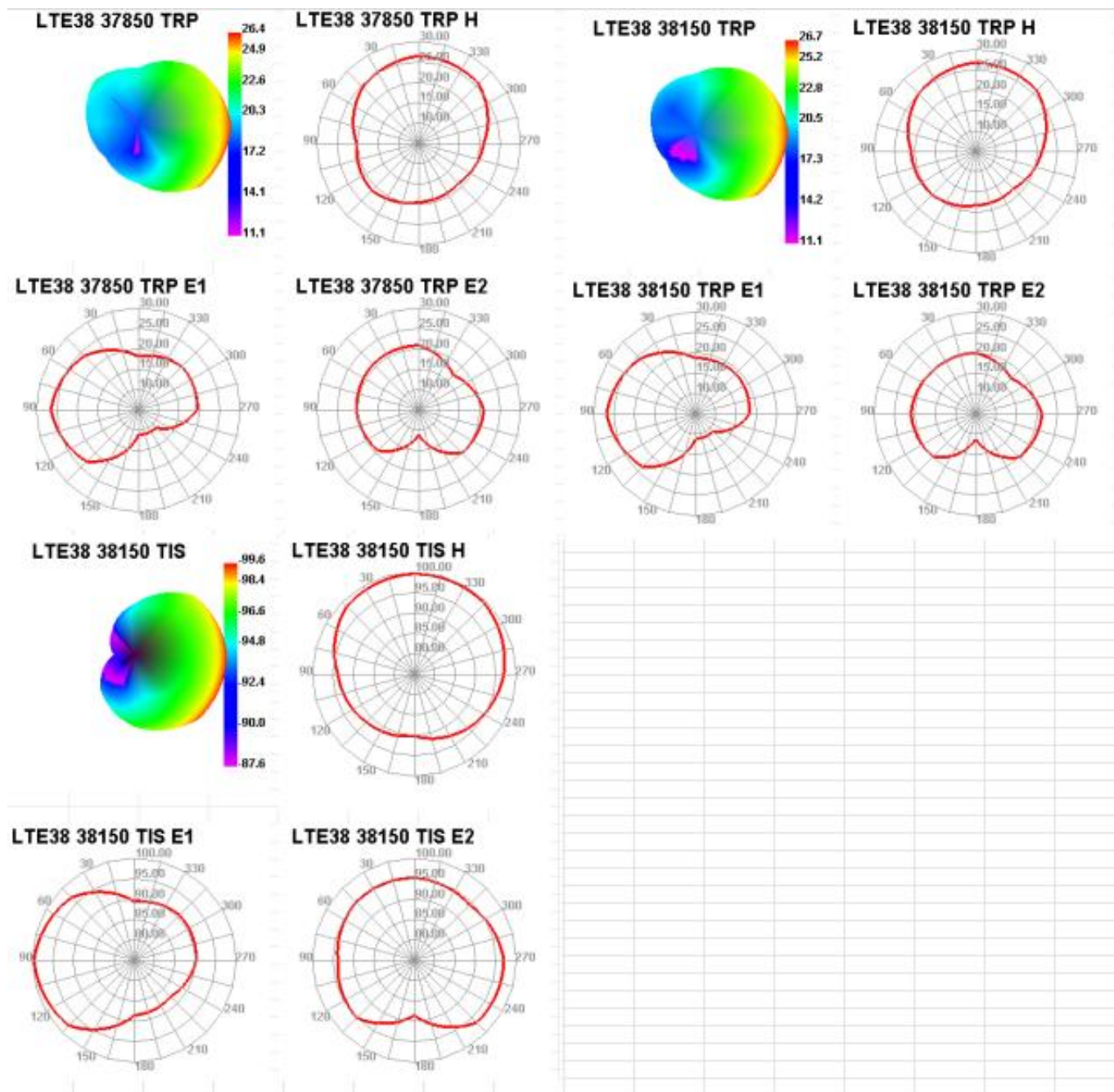


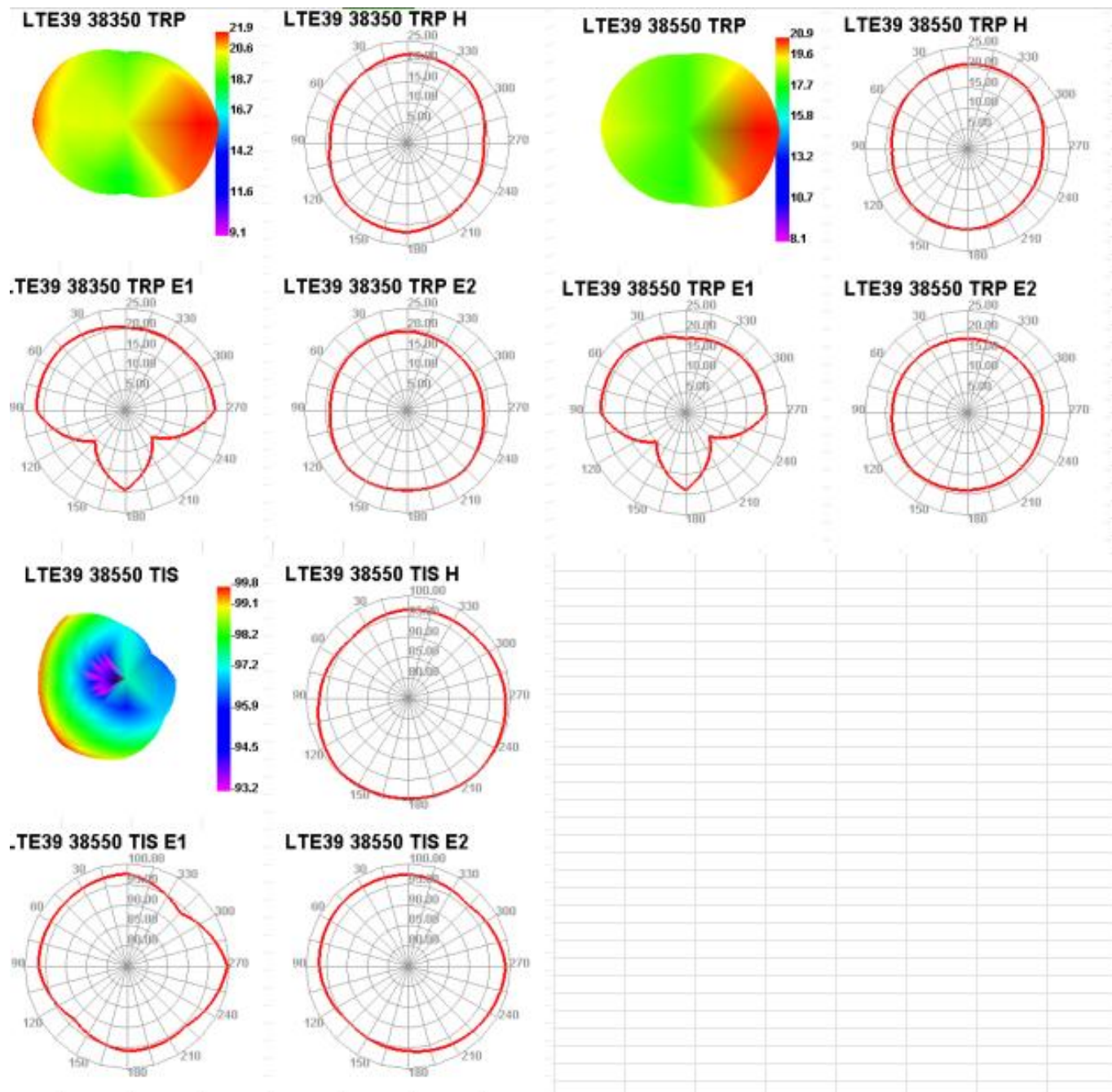


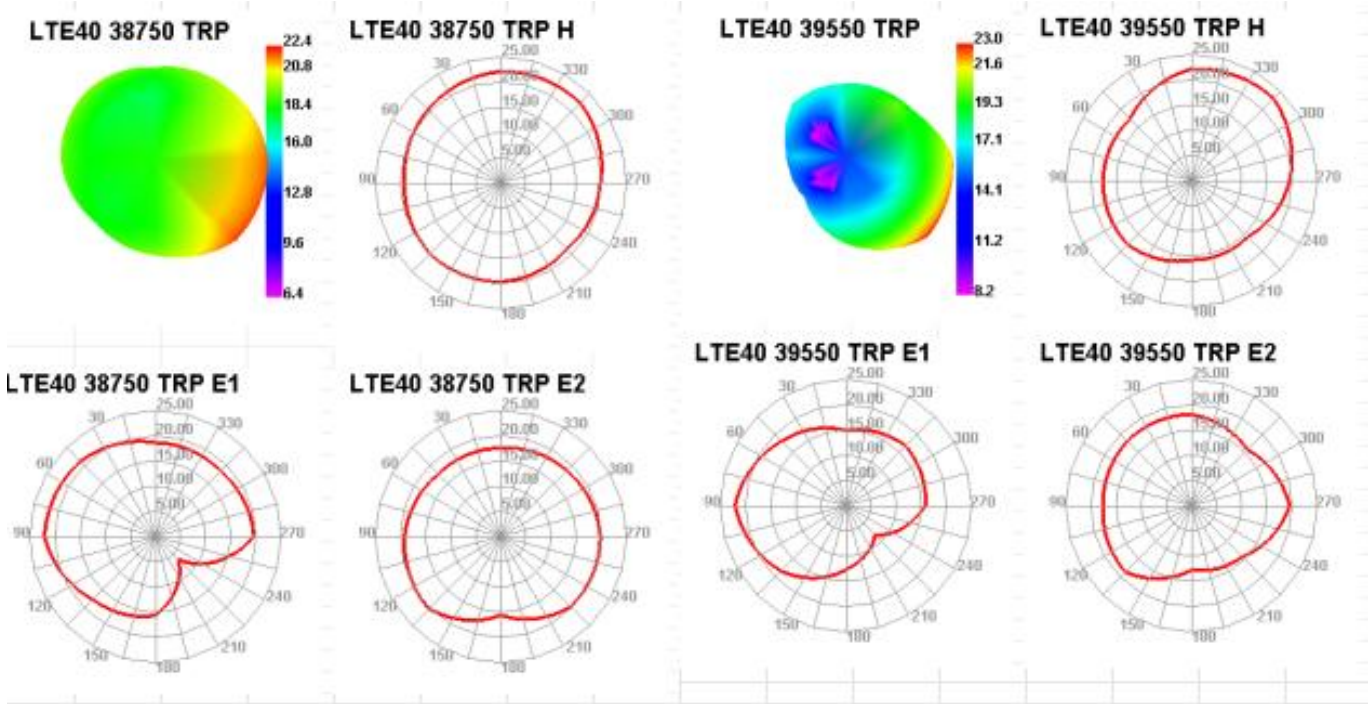


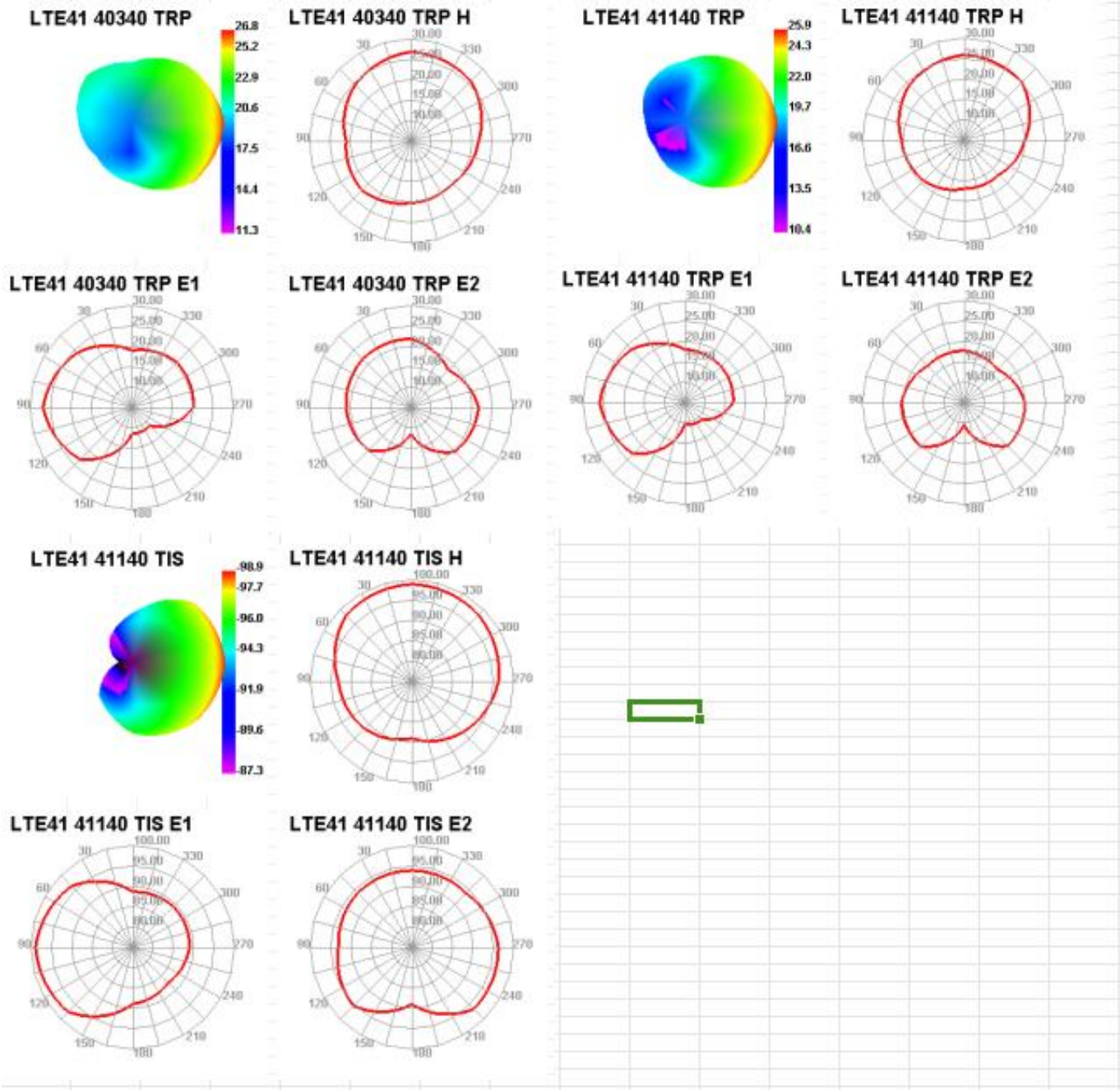




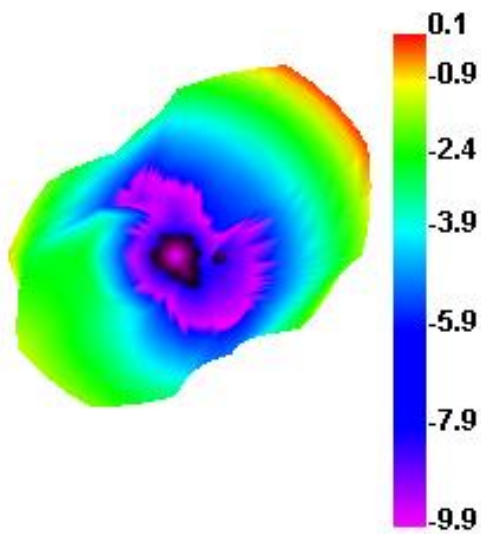




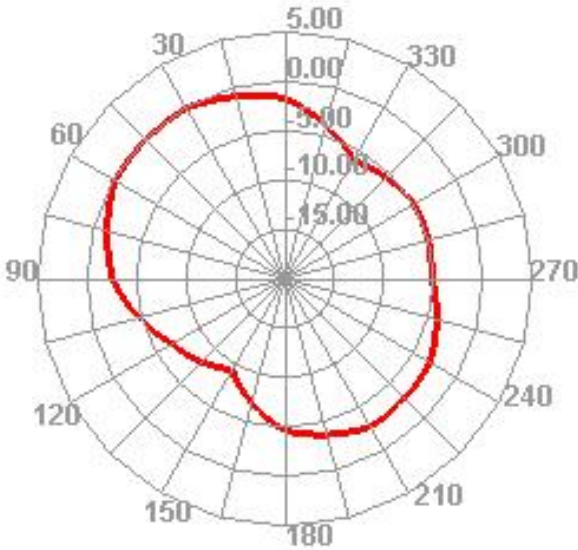




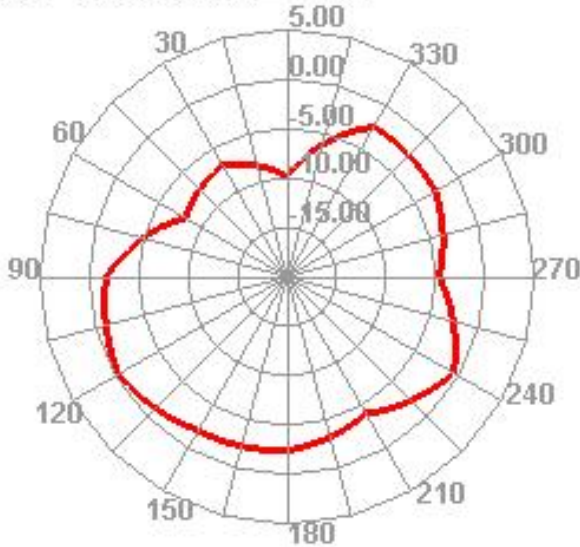
1575.000MHz



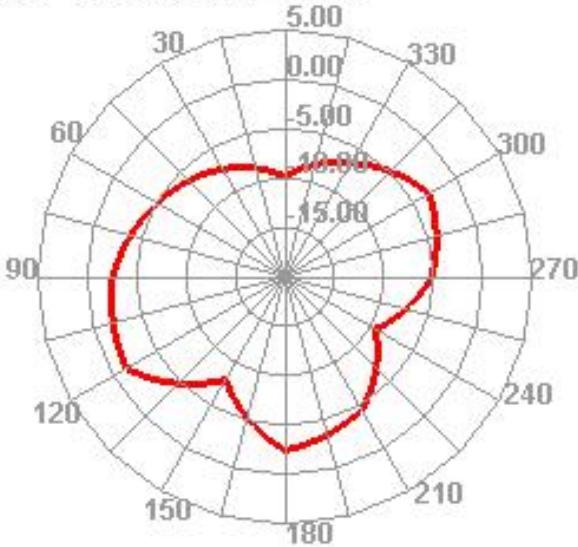
1575.000MHz H

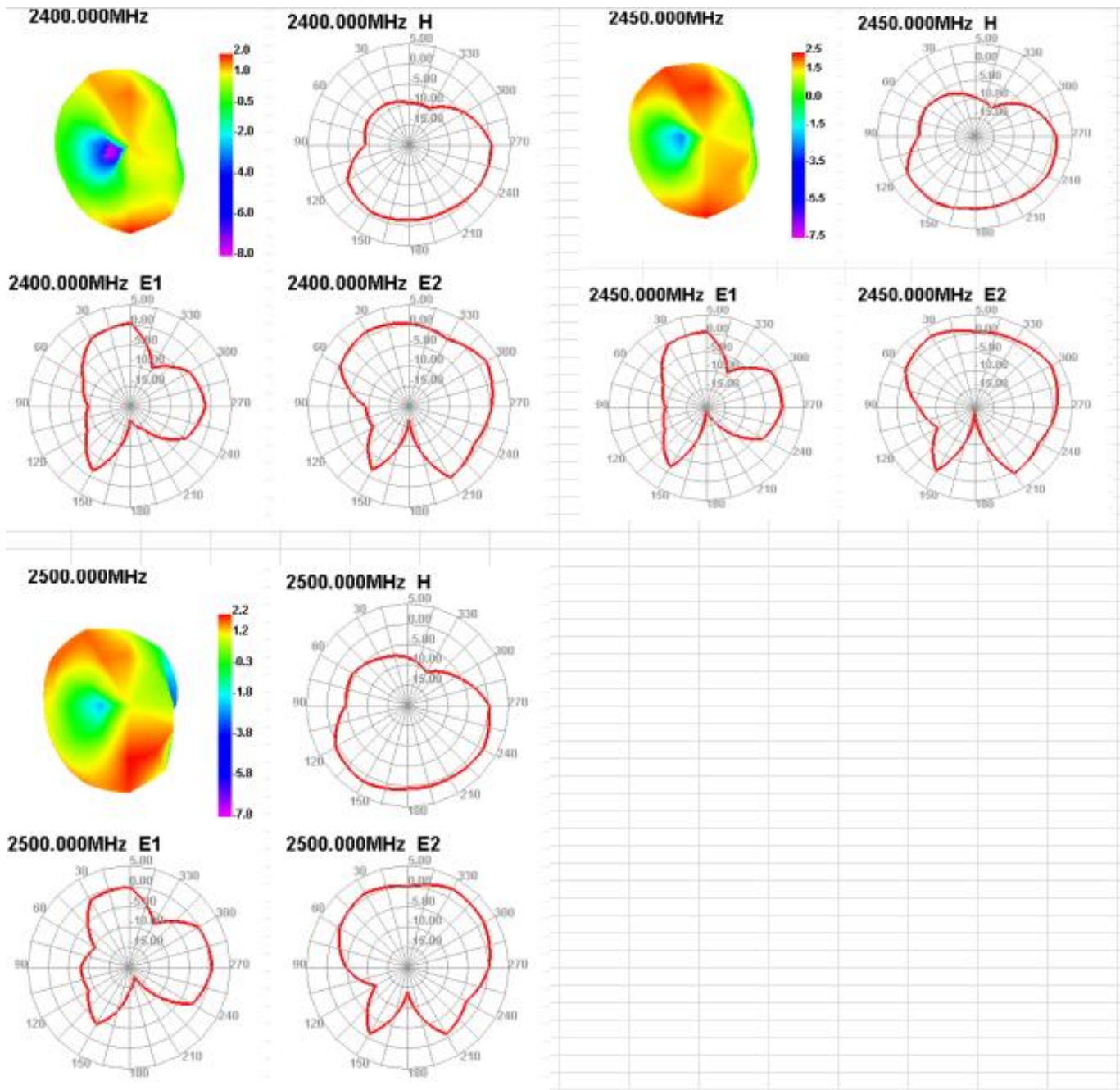


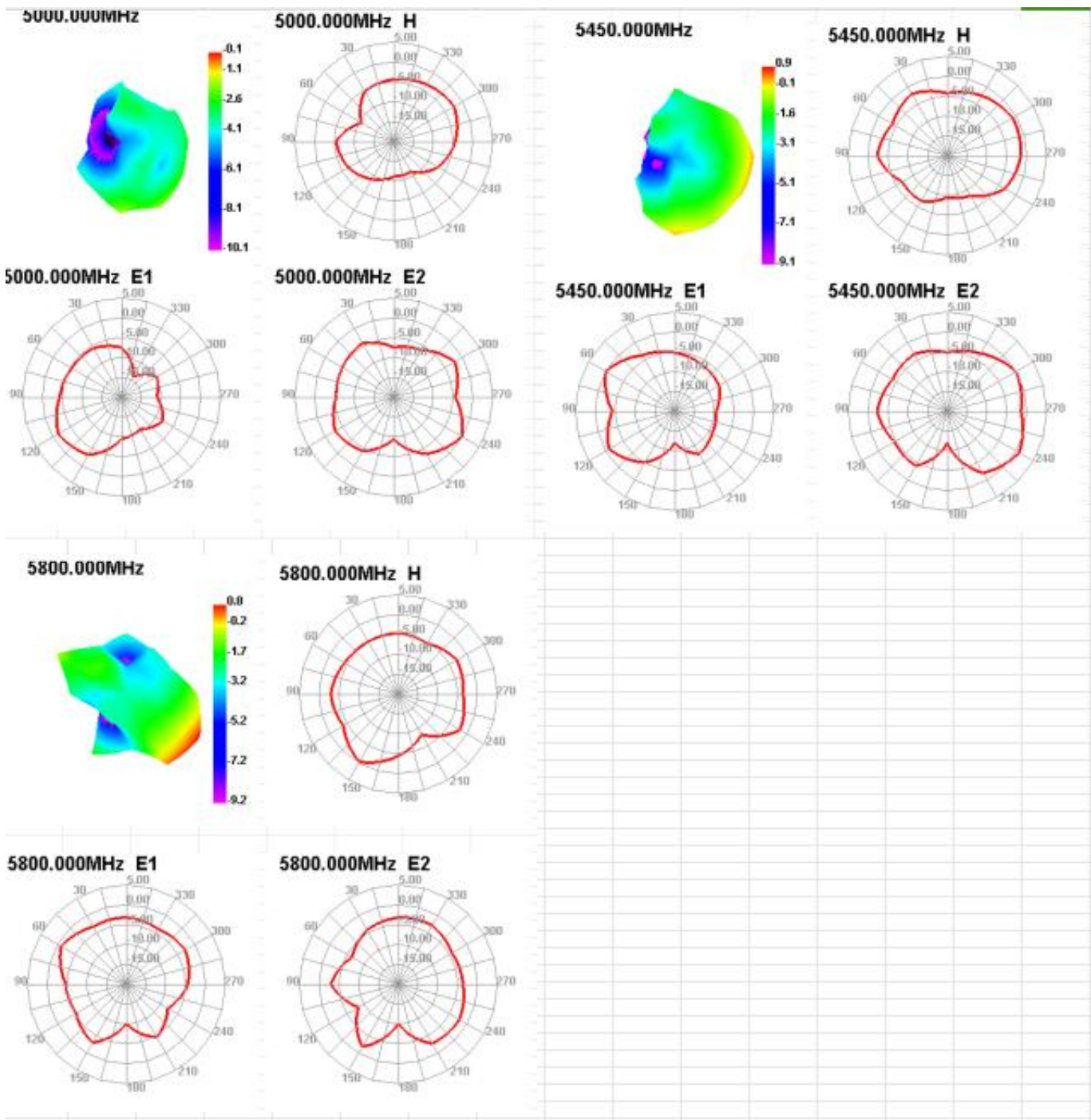
1575.000MHz E1



1575.000MHz E2





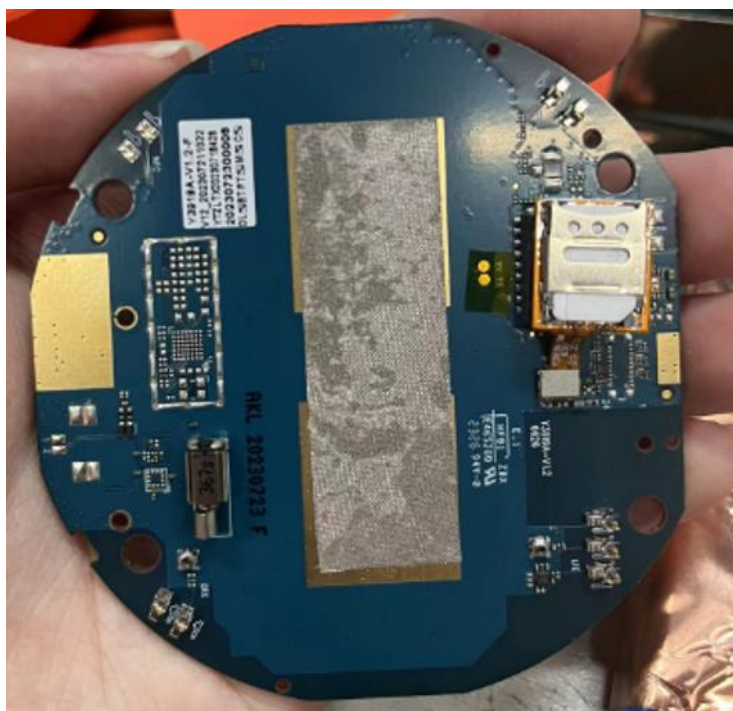


3.5. 副天线测试数据/Sub-antenna test data

GPS	最大信号强度 Maximum signal strength	搜星数量 Number of star searches
	40	20
	平均定位时间 Mean positioning time	天气状况 Weather condition
	70S	晴 sunny
WIFI	正常上网距离 Normal connection distance	
	18M	
	在线视频流畅距离 Online video smooth distance	
	15M	
BT	正常通话距离 Normal talking distance	
	15M	
NFC	感应距离 Sensing distance	
	3.5CM	



3.6. 环境处理/Environmental treatment



贴一块导电泡棉与电池接地
Attach a piece of conductive
foam to ground the battery

4 外观结构/Appearance structure

4.1 天线材质/Antenna material

天线支架：改性（沙比克）LDS 材料

天线材料：LDS 天线银白色，表面镀镍。

Antenna bracket: Modified (Shabic) LDS material

Antenna material: LDS antenna silver, nickel-plated surface

