深圳市国质信网络通讯有限公司
ShenZhen NQI network communication ltd

Antenna Test Report

For

Project D1002（SKH8006HS/SKH8006BS）

Version：

Customer	诚丰浩(Cheng Feng hao)	**Project**	**D1002** **（SKH8006HS/SKH8006BS）**
Band	**DECT**	**Color**	
Issued by	**LH**	**Checked by**	
Confirmed by		**Date**	**2023.11.29**

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一． Test Instrumentation and item(测试设备及项目)

类别（Class）	测试项目（Test item）	设备（Equipment）
1. S parameter	1. 回波损耗(RL) 2. 驻波比（VSWR） 3.斯密斯原图(Smith chart)	网分（VNA）: Agilent E5071B R&S ZVB8 Protek A333
2. 耦合测试（Coupling testing）	1. 发射功率（MAX Power） 2. 接收灵敏度（MIN Sens）	1.2G/3G Tester： Agilent 8960 2.The coupling box：TESCOM TC-5060A 3. 3D Chamber：ETS 3D Chamber（5x3x3 ）
3. 3D 无源测试（Passive Test）	1. 效率（Effeciency） 2. 增益（Gain） 3.辐射方向图（radiation pattern）	1. 3D Chamber：TEM24 3D Chamber(5x5x5) ETS 3D Chamber（5x3x3） 2. 网分（VNA）：Agilent E5071B R&S ZVB8
4.3D 有源测试（Active Test）	1. 3D 功率（TRP） 2. 3D 灵敏度（TIS） 3.吞吐率(Throughput rate)	1. 3D Chamber：TEM24 3D Chamber(5x5x5) ETS 3D Chamber（5x3x3） 2.2G/3G Tester: Agilent 8960 3.4G Tester：MT8820C/CMW500 4.WIFI/BT/NB-iot Tester：CMW500 5. 5G Tester：SP9500-CTS 6.Head：HEAD-P10（FACE-P10）

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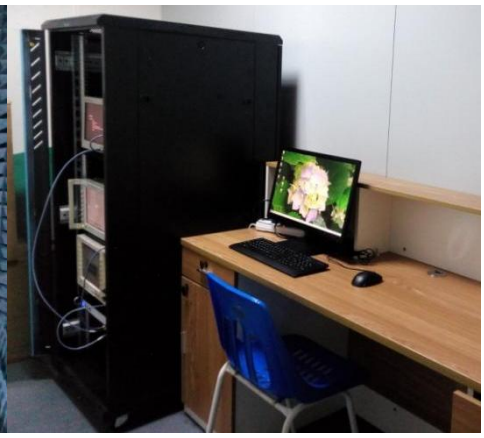
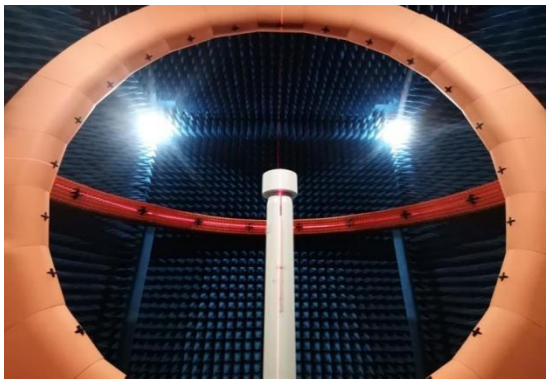
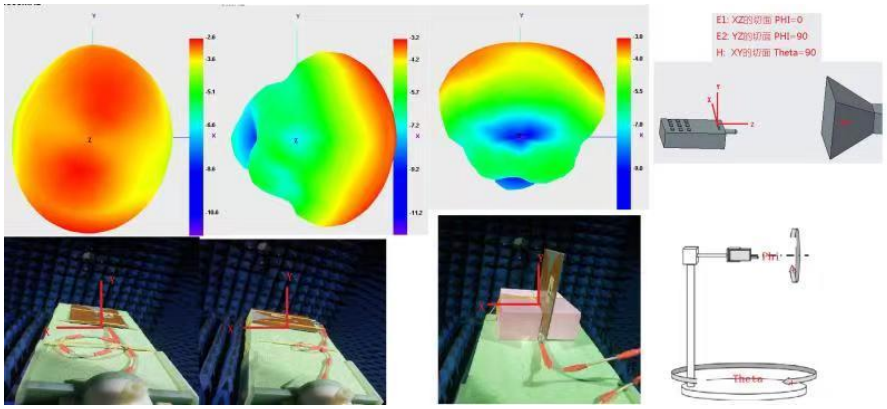




二. Chamber coordinate axis（暗室坐标）



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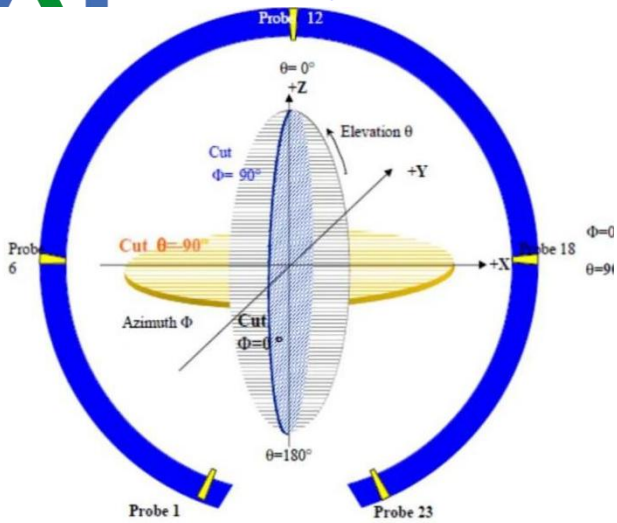


三． Definitions（定义）

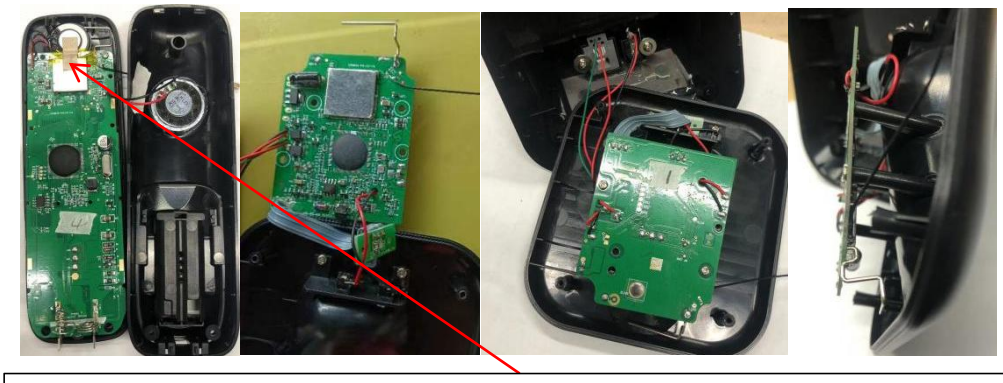
VSWR：Voltage Standing Wave Rate

RL：Return loss

TRP：total radiated power

TIS：total istropic sensitivity

四． Cell-Phone Photo and Dealing Methord（手机图片及环境处理）



Here the speaker is grounded with conductive cloth（此处喇叭用导电布做接地处理）

五． Matching Circuit Description（匹配描述）

Original match（原版匹配）

六． Passive Test（无源测试）

6.1. RL/VSWR（回波损耗/驻波比）

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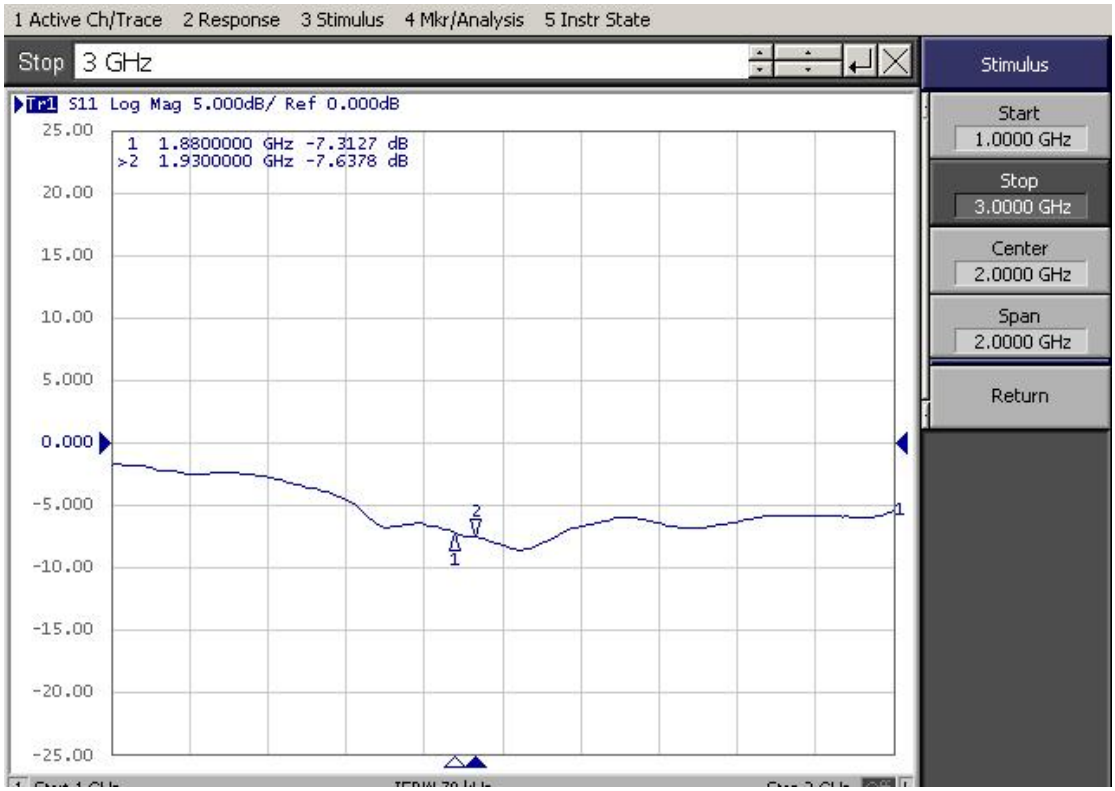
SKH8006HS(The horn is grounded without a conductive cloth 喇叭不加导电布接地)

RL



SKH8006HS(The horn is grounded without a conductive cloth 喇叭不加导电布接地)

VSWR

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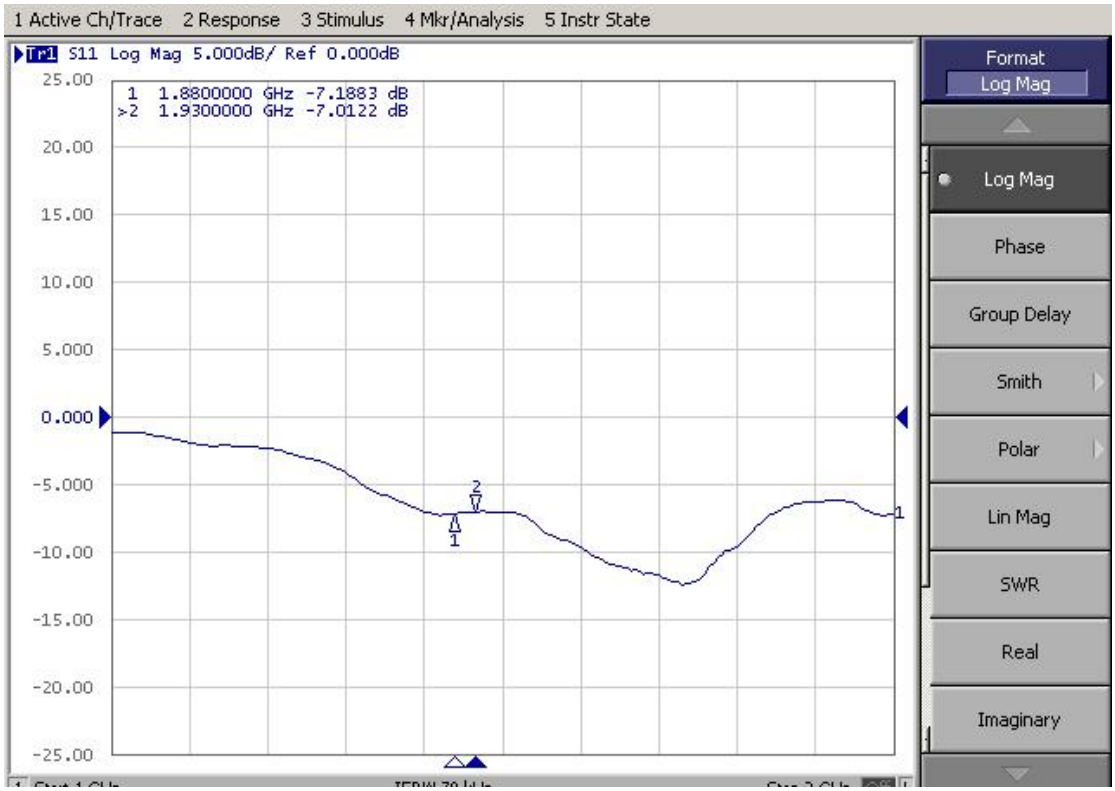
RL



SKH8006HS(The horn is grounded with conductive cloth 喇叭加导电布接地)
VSWR

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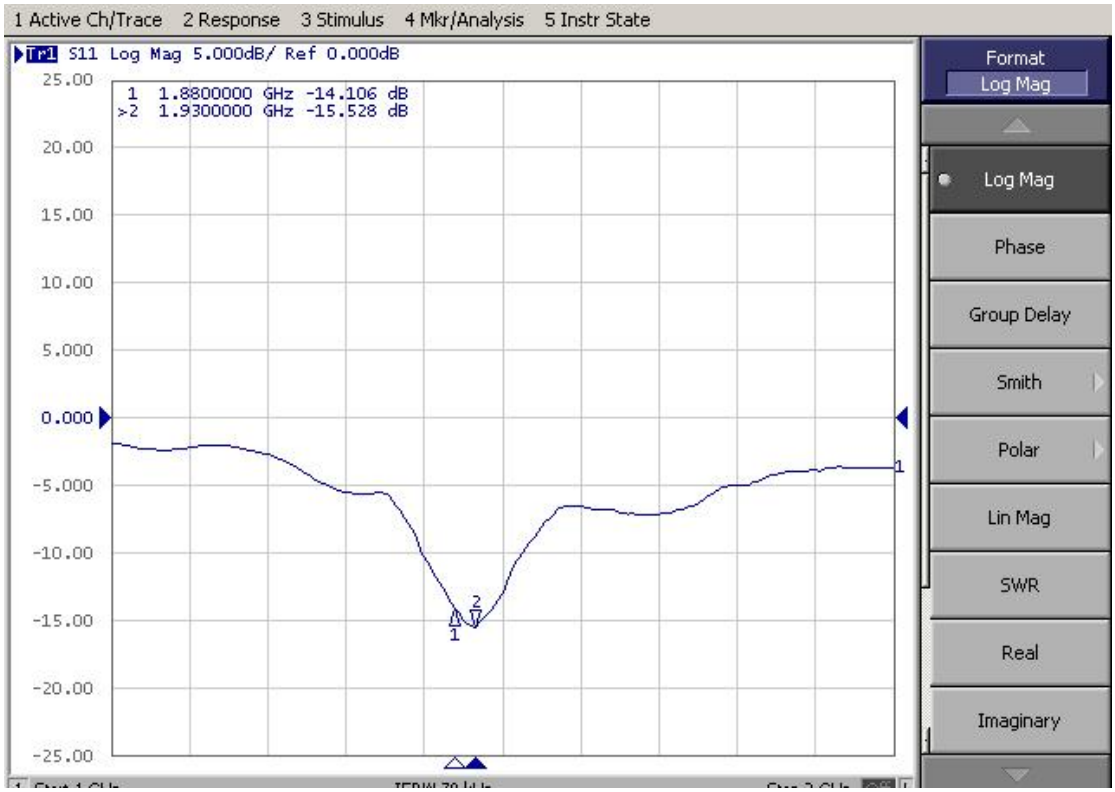
SKH8006BS RL



SKH8006BS VSWR

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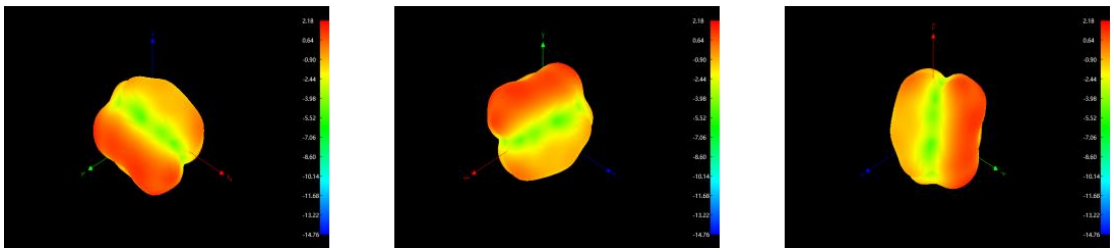
6.2.Effeciency、Gain、Radiation pattern

SKH8006HS(The horn is grounded without a conductive cloth 喇叭不加导电布接地)

Freq (MHz)	Effi (%)	Gain (dBi)
1880	42.46	2.18
1885	41.4	1.93
1890	41.4	1.74
1895	42.27	1.72
1900	42.07	1.32
1905	42.07	1.22
1910	42.56	0.98
1915	41.78	0.97
1920	41.5	0.79
1925	41.3	0.68
1930	41.4	0.75

1880



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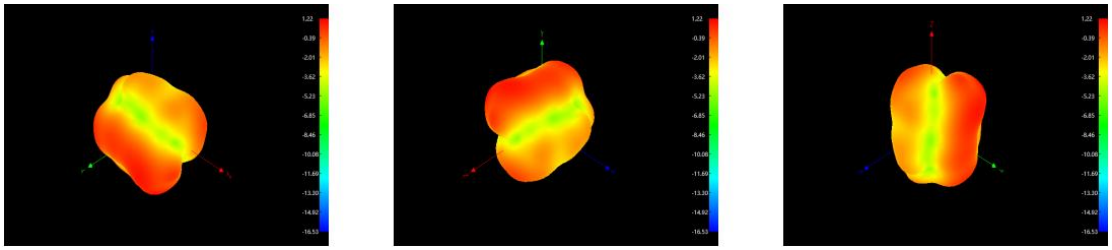

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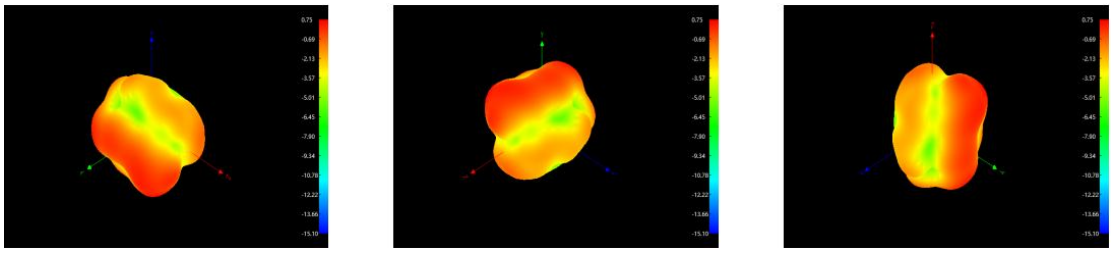

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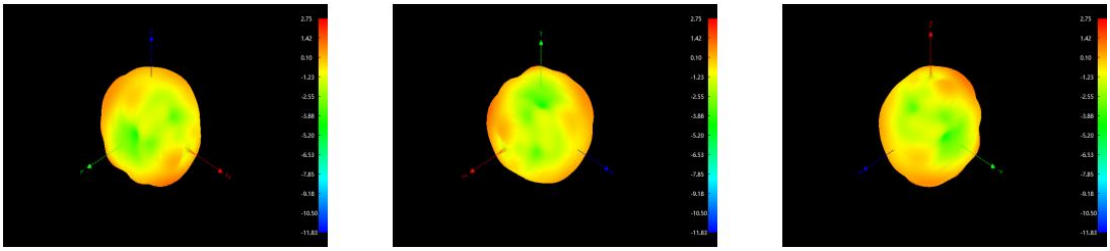
SKH8006HS(The horn is grounded with conductive cloth 喇叭加导电布接地)

Freq (MHz)	Effi (%)	Gain (dBi)
1880	50.93	2.25
1885	50	2.05
1890	48.87	1.45
1895	50.82	1.56
1900	50.35	1.36
1905	50.58	1.3
1910	52	1.3
1915	50.93	1.13
1920	50.93	1.07
1925	50.7	1.05
1930	51.76	1.16

1880



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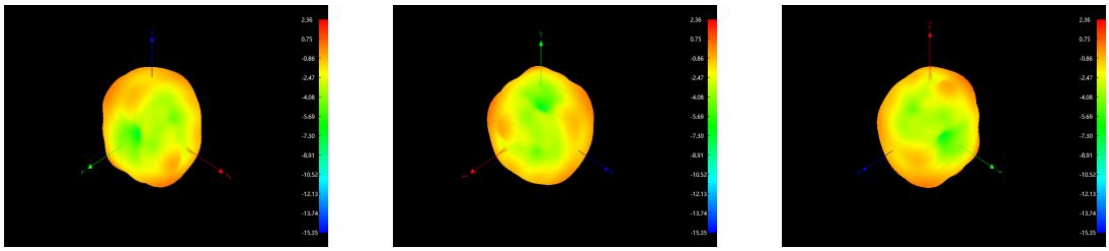

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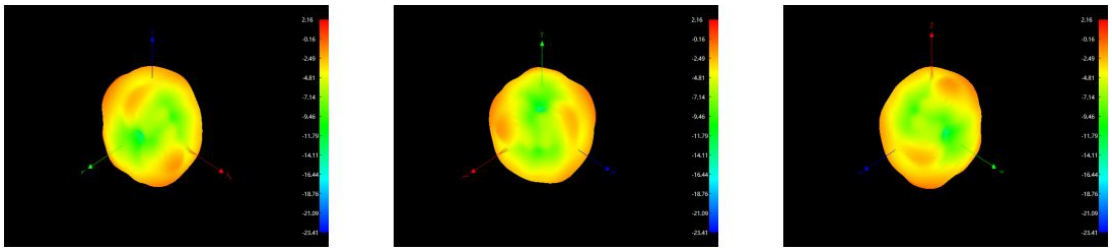

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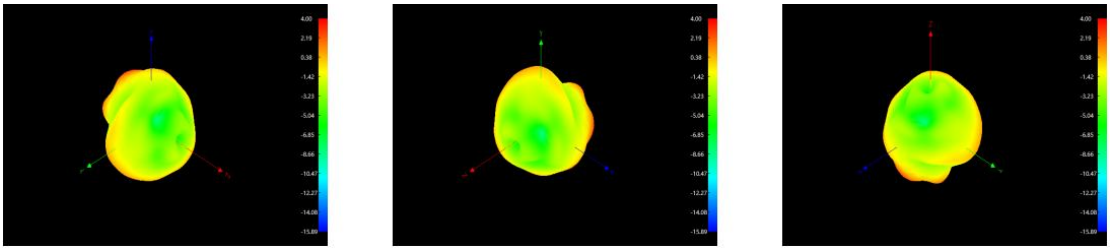
SKH8006BS

Freq (MHz)	Effi (%)	Gain (dBi)
1880	57.68	2
1885	57.28	1.94
1890	55.59	1.72
1895	58.48	1.92
1900	56.36	1.62
1905	57.15	1.62
1910	57.15	1.49
1915	56.36	1.35
1920	54.83	1.14
1925	55.34	1.37
1930	56.62	1.67

1880



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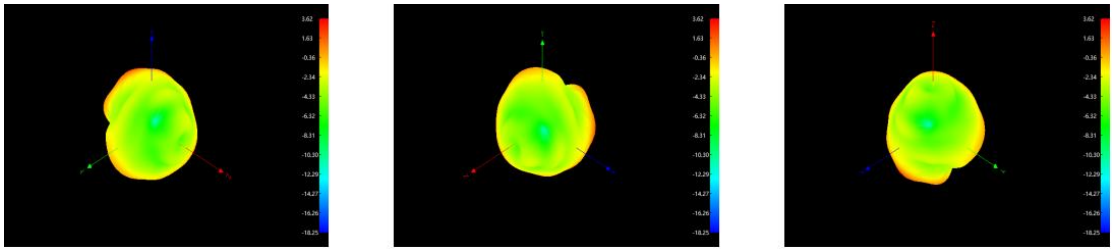

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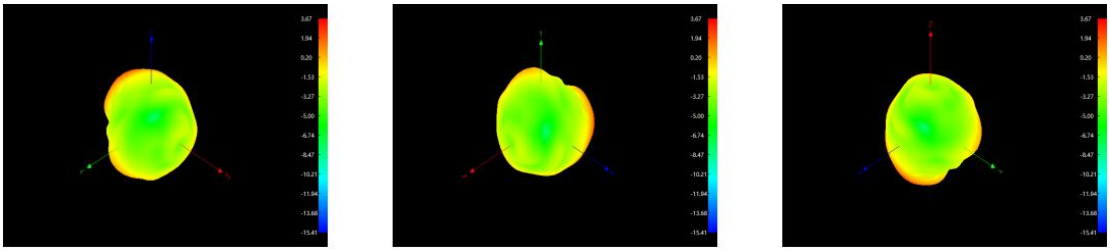

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