

OTA TEST REPORT

Client Information:

Applicant.....: Shanghai DINGFEI ELECTRONIC TECHNOLOGY CO.LTD

Address add.....: 255 Xingzhong Road, Fengxian District, Shanghai, China

Product Name.....: GNSS Receiver

Model Name.....: R61

Date of Test.....20 Jun. 2023

Date of Issue.....20 Jun. 2023

Report Prepared by :



(qiyaozhao)

Report Approved by :



(leo Li)



"Shanghai ATBL Technology Co., Ltd." hereby certifies that the test results described in the company's standard test site test report and the structure of the test equipment are recorded in detail based on the actual test situation. The test results of this report are only applicable to the above-mentioned tested prototypes and the equipment described in the report. This report is not allowed to be copied without the written consent of Shanghai ATBL Technology Co.,

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	20 Jun. 2023	SHATBL2306002	ALL	Initial Issue

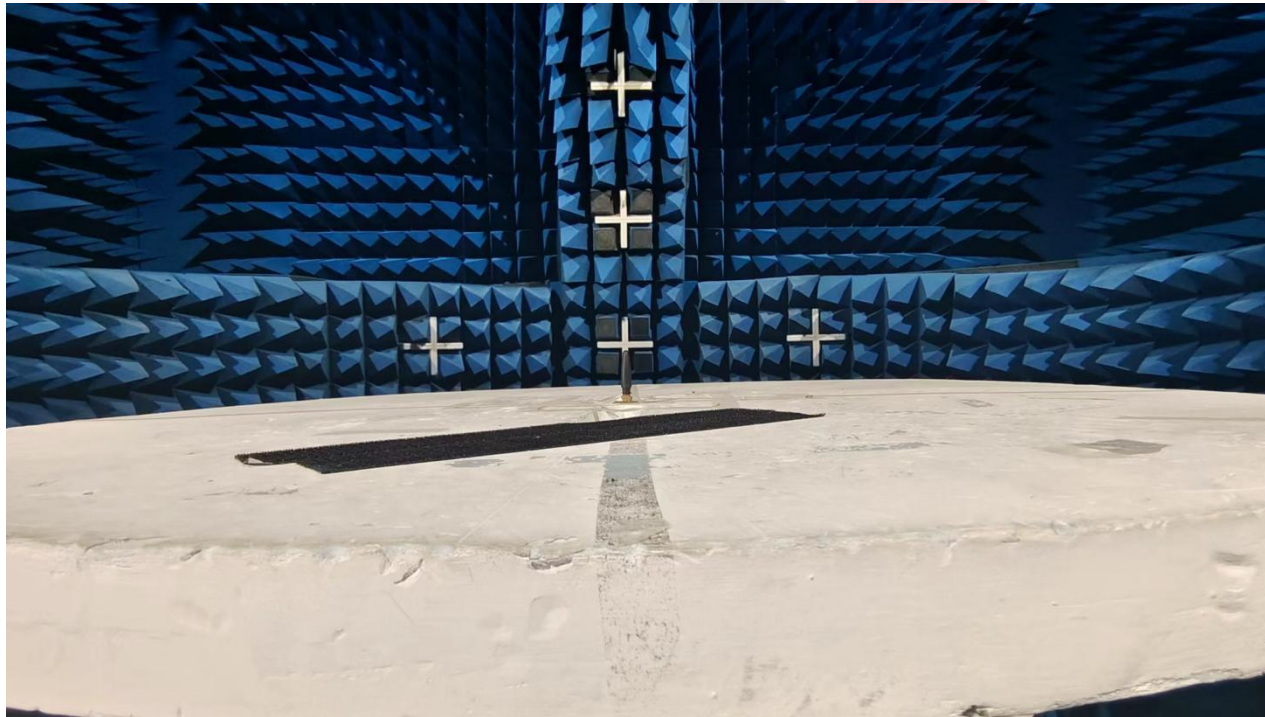
1. Device list

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	Nov 10, 2022	Nov 09, 2023
CMW500	R&S	CMW500	Nov 10, 2022	Nov 09, 2023
Network Analyzer	AGILENT	E5071C	Nov 10, 2022	Nov 09, 2023
Frequency Spectrograph	AGILENT	N9020A	Nov 10, 2022	Nov 09, 2023

2.Sample photo



3.Test layout



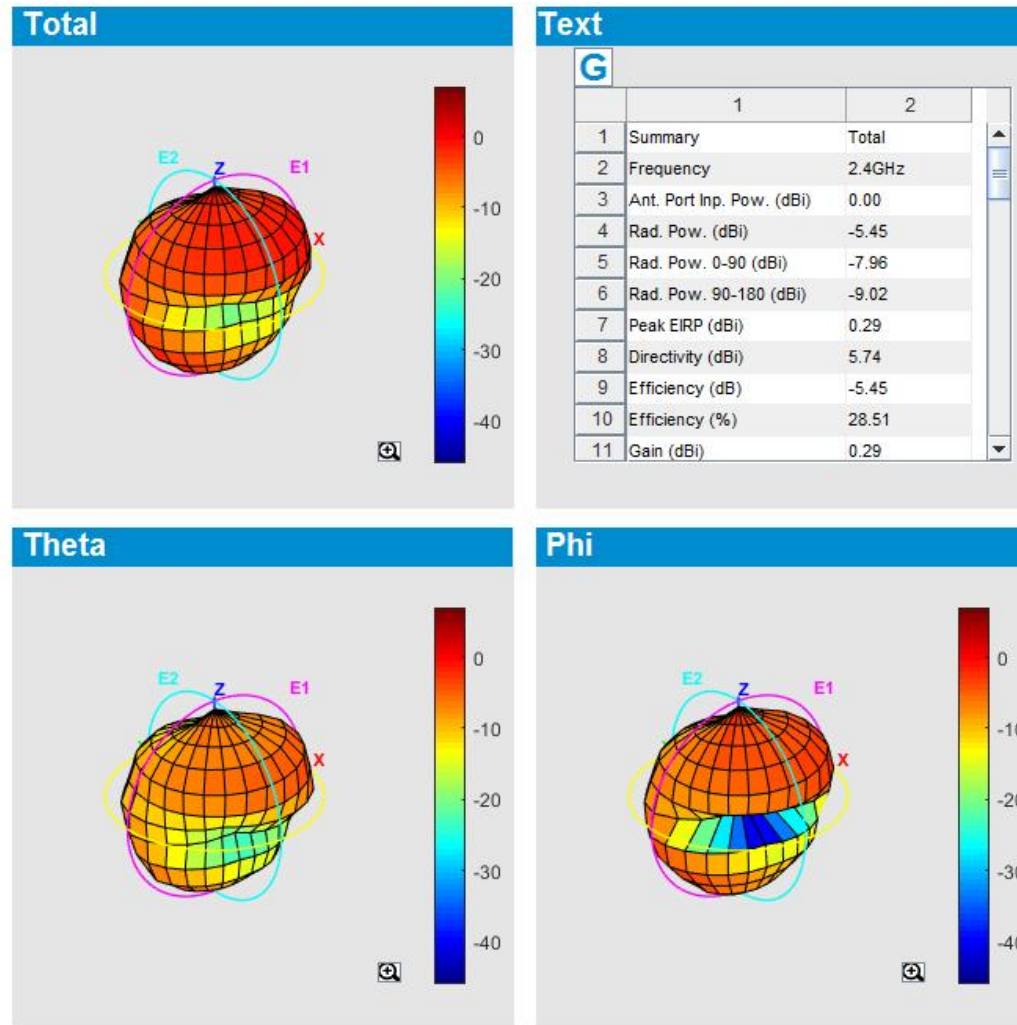
4. Results Summary

Overview

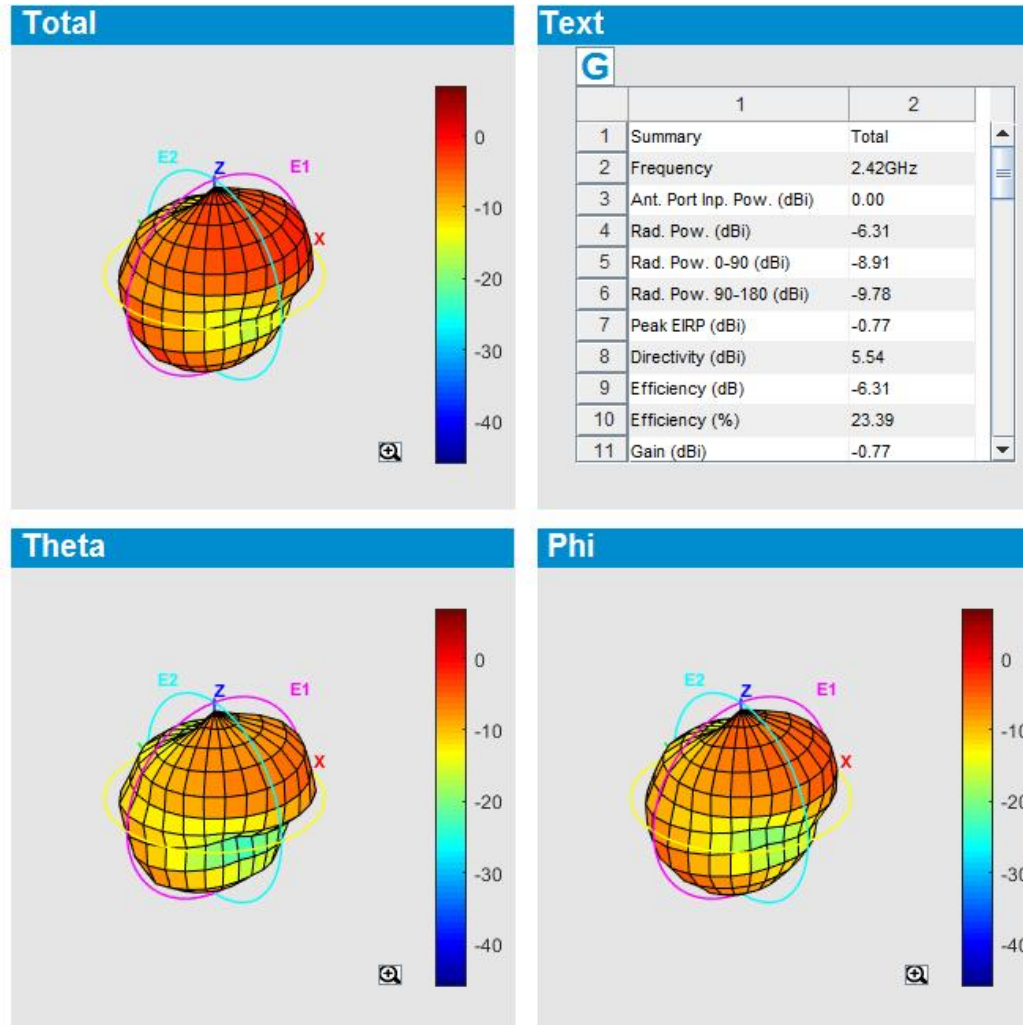
Test / Position	Free Space										
Communication System	Gain										
frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Avg Gain	-5.5	-5.7	-6.3	-5.5	-4.9	-5.3	-6.0	-6.3	-6.1	-5.3	-4.6
Peak Gain	0.3	-0.1	-0.8	-0.4	0.1	-0.1	-0.6	-0.8	-0.6	0.4	1.2
Directivity	5.7	5.6	5.5	5.1	5.0	5.2	5.5	5.5	5.5	5.8	5.8
Efficiency	-5.5	-5.7	-6.3	-5.5	-4.9	-5.3	-6.0	-6.3	-6.1	-5.3	-4.6
Efficiency (%)	28.5	26.7	23.4	28.3	32.5	29.6	25.0	23.5	24.4	29.3	35.0
Gain	0.3	-0.1	-0.8	-0.4	0.1	-0.1	-0.6	-0.8	-0.6	0.4	1.2
Note											

5. Radiation Pattern/Efficiency

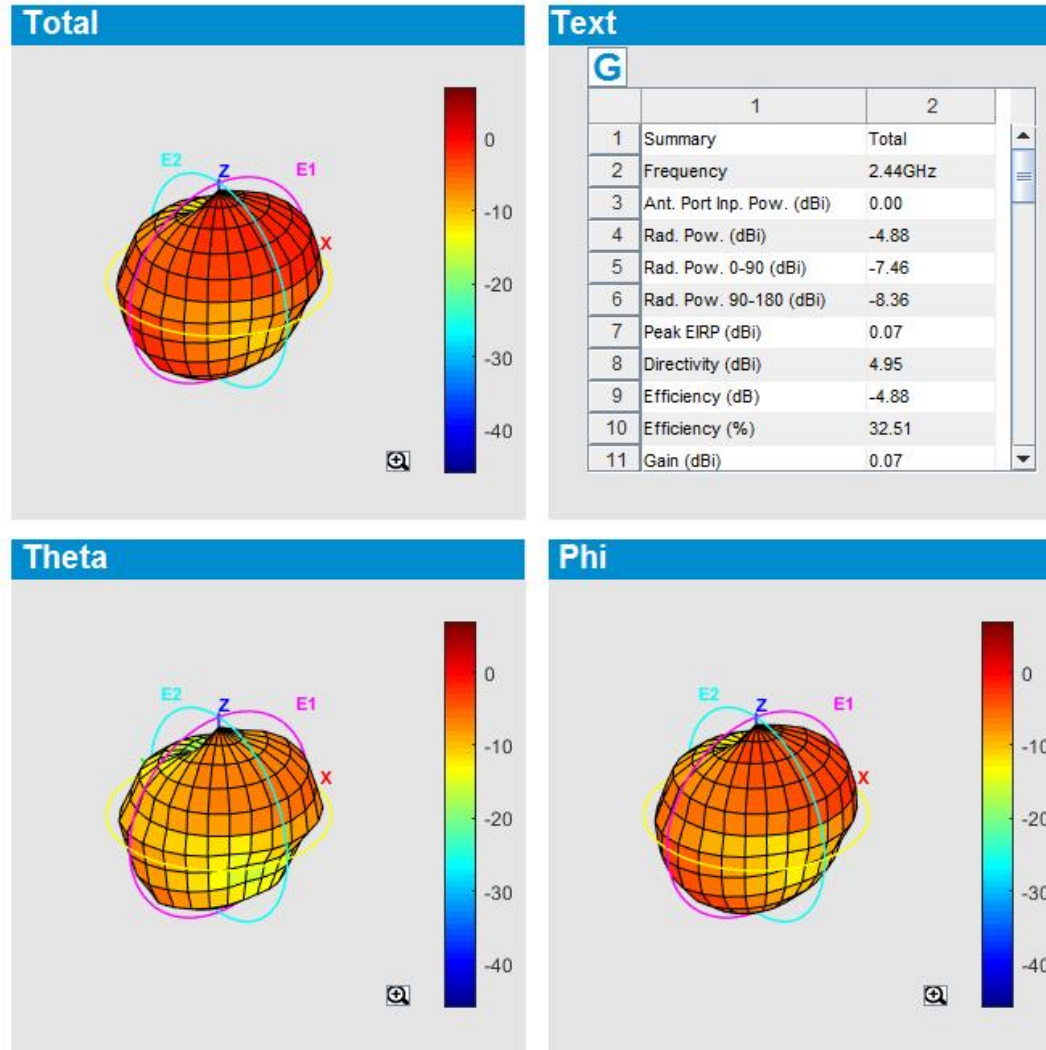
2.4GHz



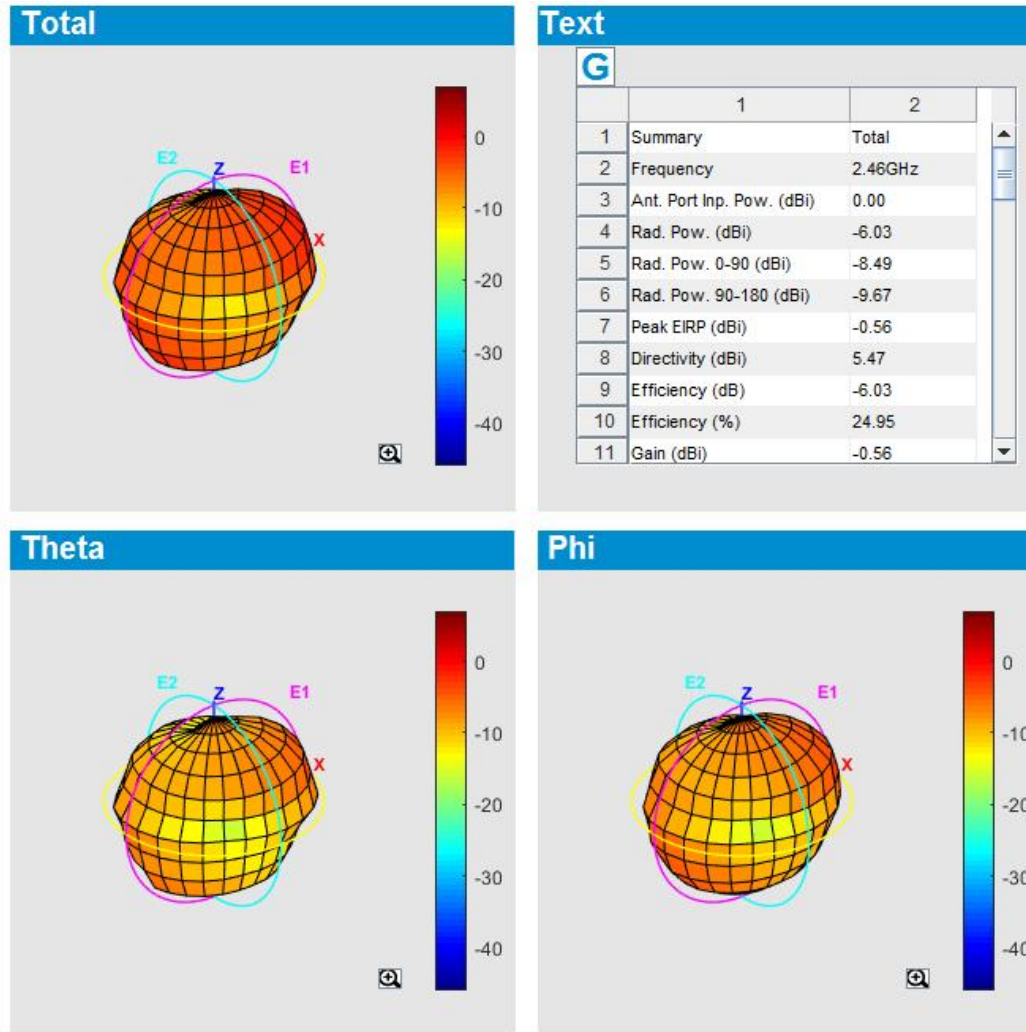
2.42GHz



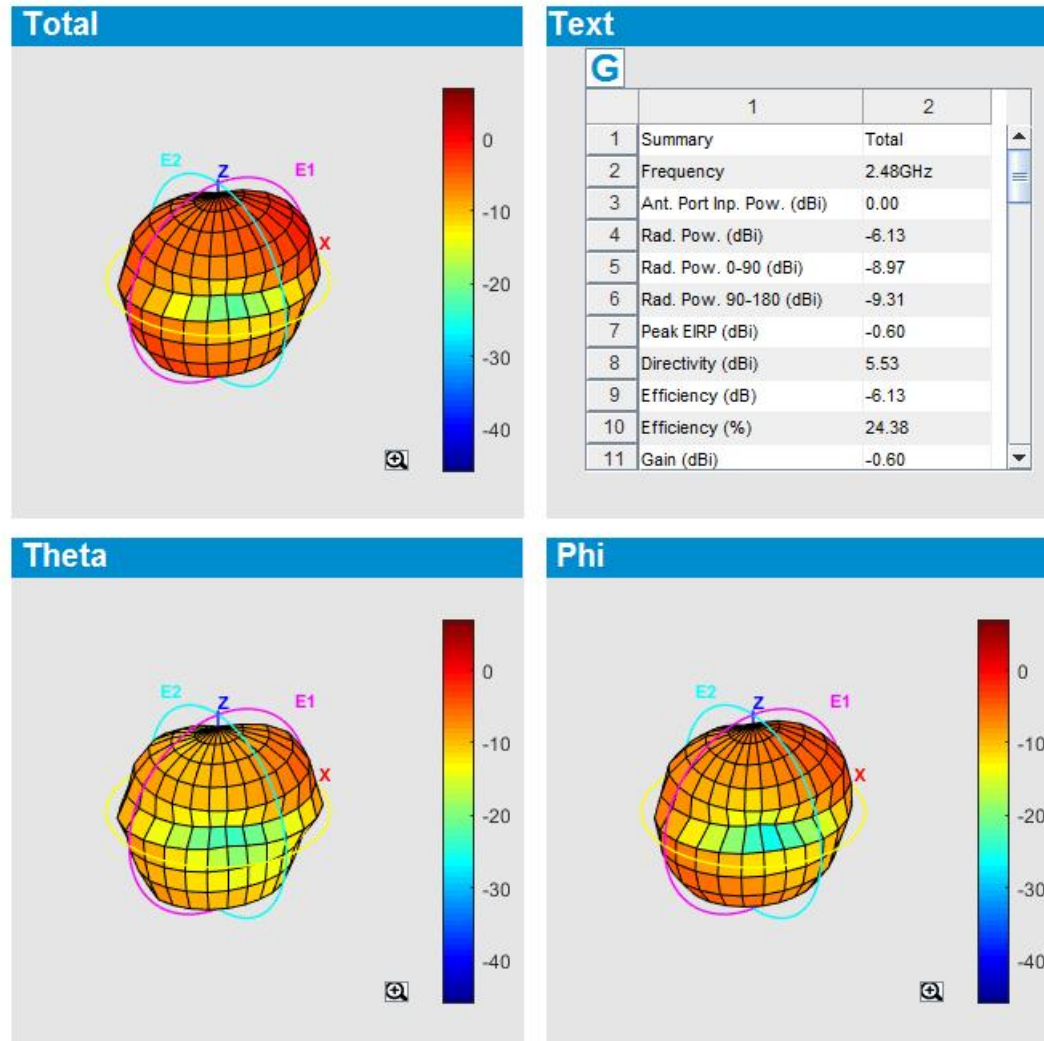
2.44GHz



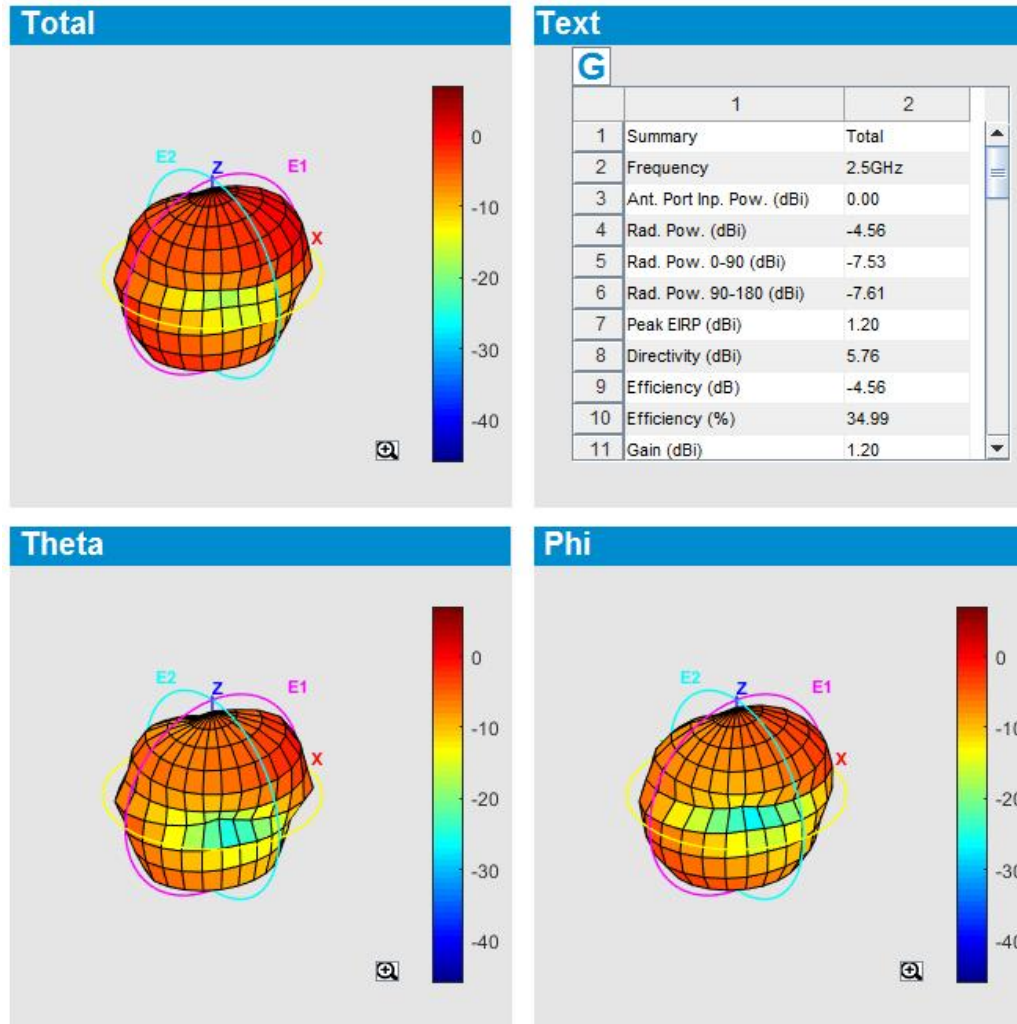
2.46GHz



2.48GHz



2.5GHz



6. Standing Wave Ratio Test

SWR

