

Antenna Test Report

Product Name: onboard antenna	Report No. : RF8220928035-L1-R
Product Model: DBA2	Security Classification: Open
Version : A0	Total Page: 19

HAIYUN Laboratory Report

Antenna Test Report

Equipment:	onboard antenna
Model:	DBA2
Applicant:	Micronet Union Technology(Chengdu) Co., Ltd
Applicant address:	Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu,
Date of Receipt:	Nov 14.2022
Date of Test:	Nov 15.2022~Nov 21.2022
Issue Date:	Nov 21.2022
Tested by:	Shenzhen HAIYUN Testing Co., Ltd. Laboratory

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1. Purpose & Environment

1.1 Purpose

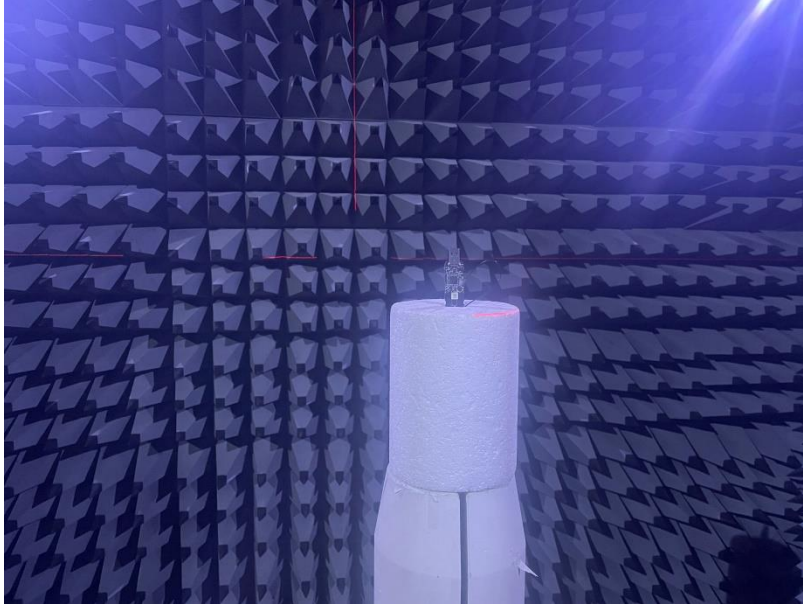
- Meet the electrical performance index;
- Confirm the antenna scheme to meet the design requirements;

1.2 Environment

- Test Condition: the network analyzer(E5071C) and SATIMO microwave anechoic chamber
- Passive measurement results are presented

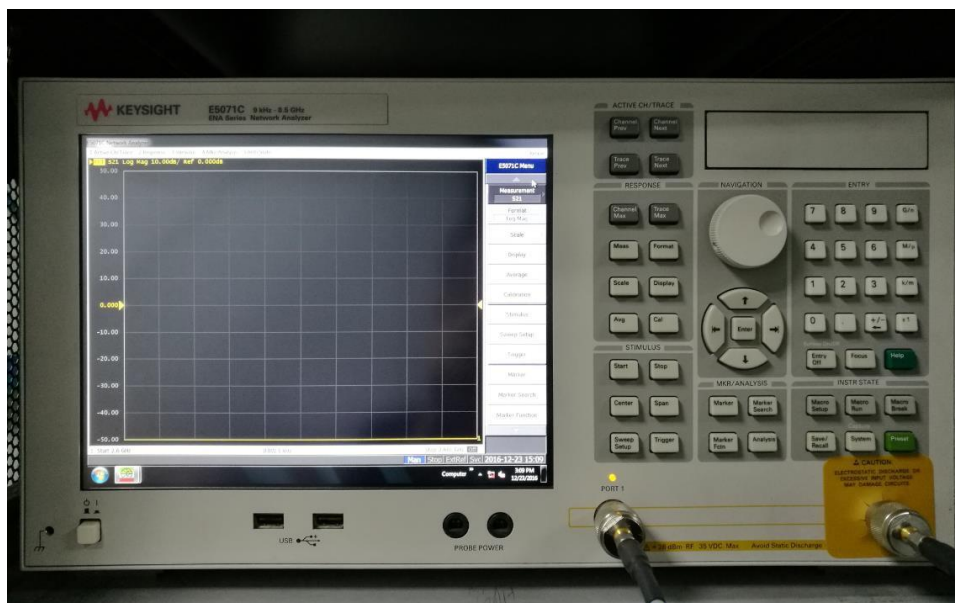
2. Test photos、 Test Condition and DUT Antenna

2.1 Test photos



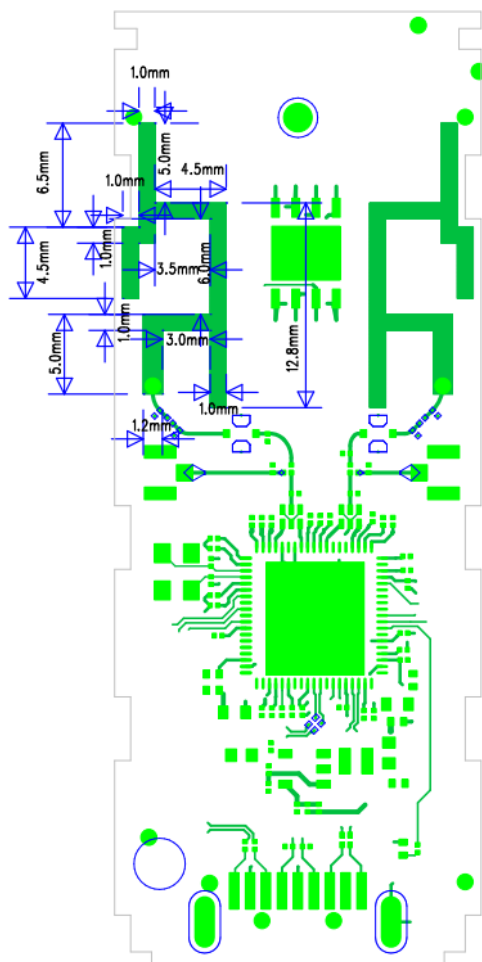
Microwave anechoic chamber

2.2 Test Condition



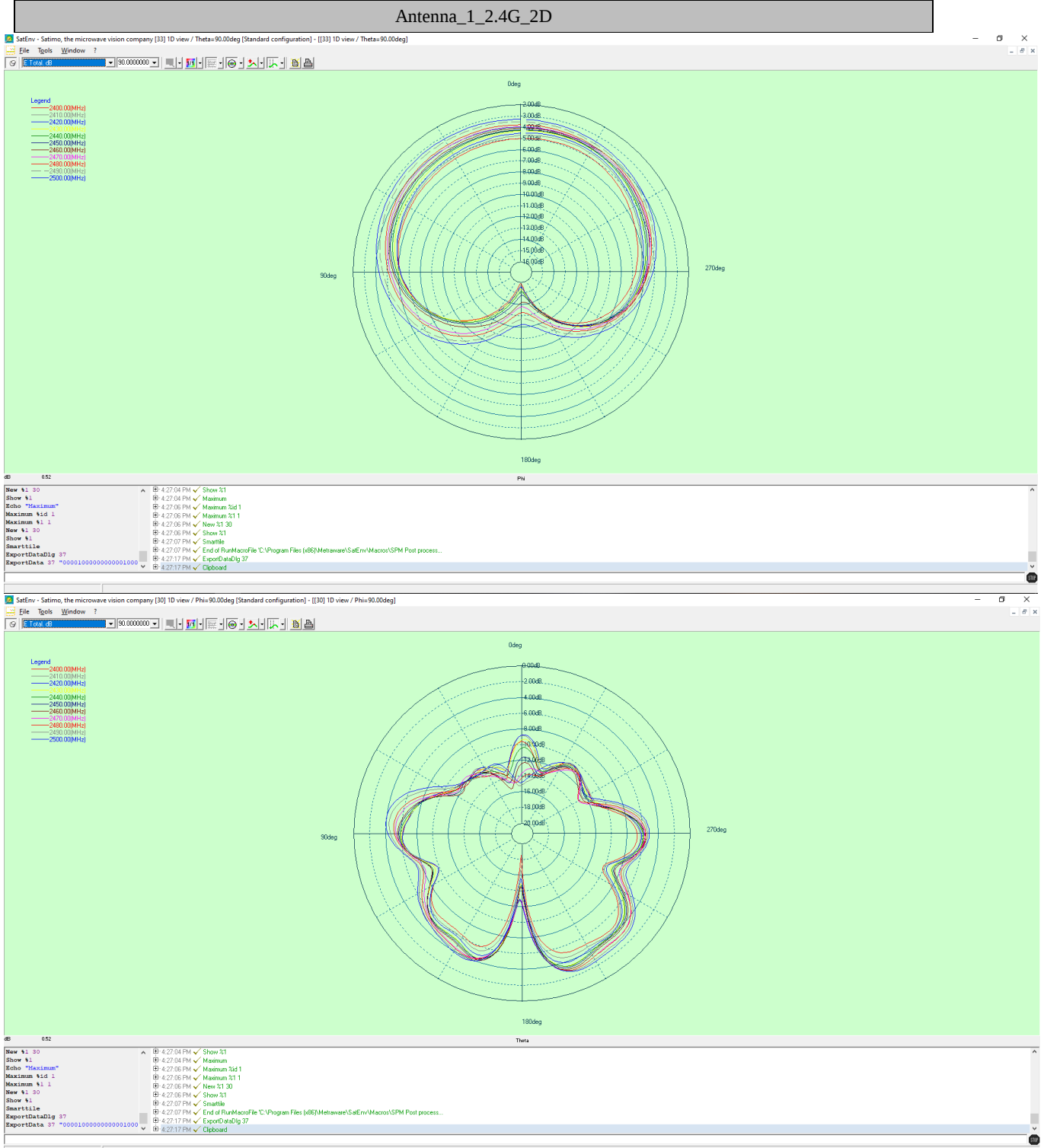
The network Analyzer

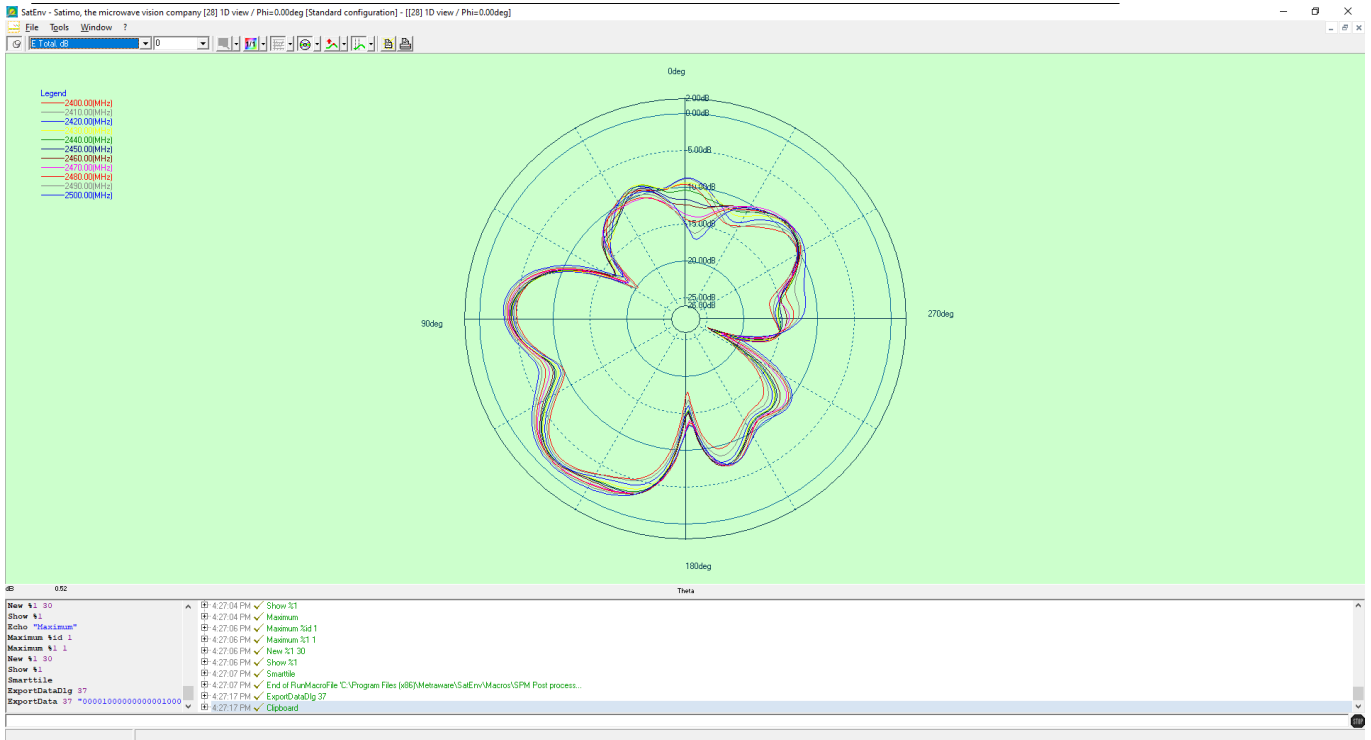
2.3 UT Antenna



3 2D/3D Radiation pattern

3.1 2D Radiation pattern test results

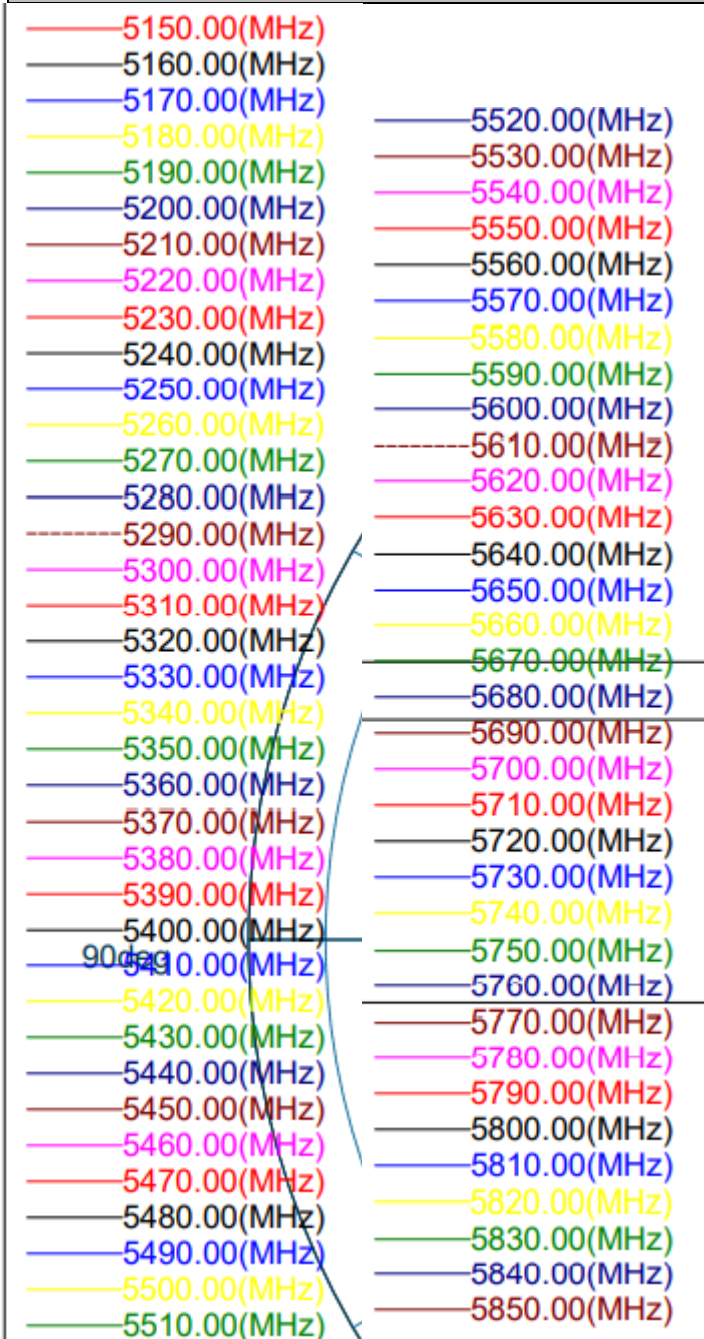


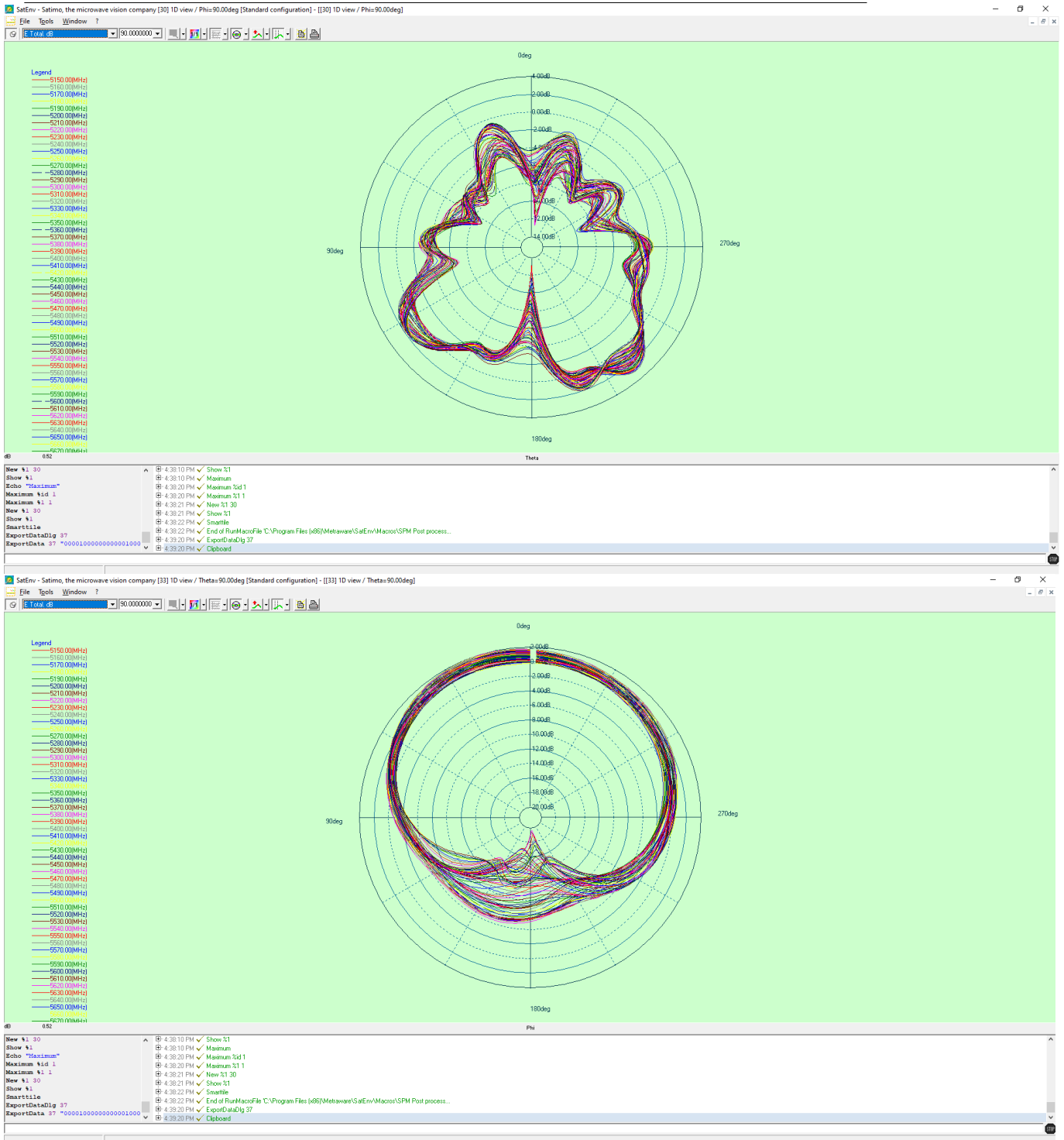


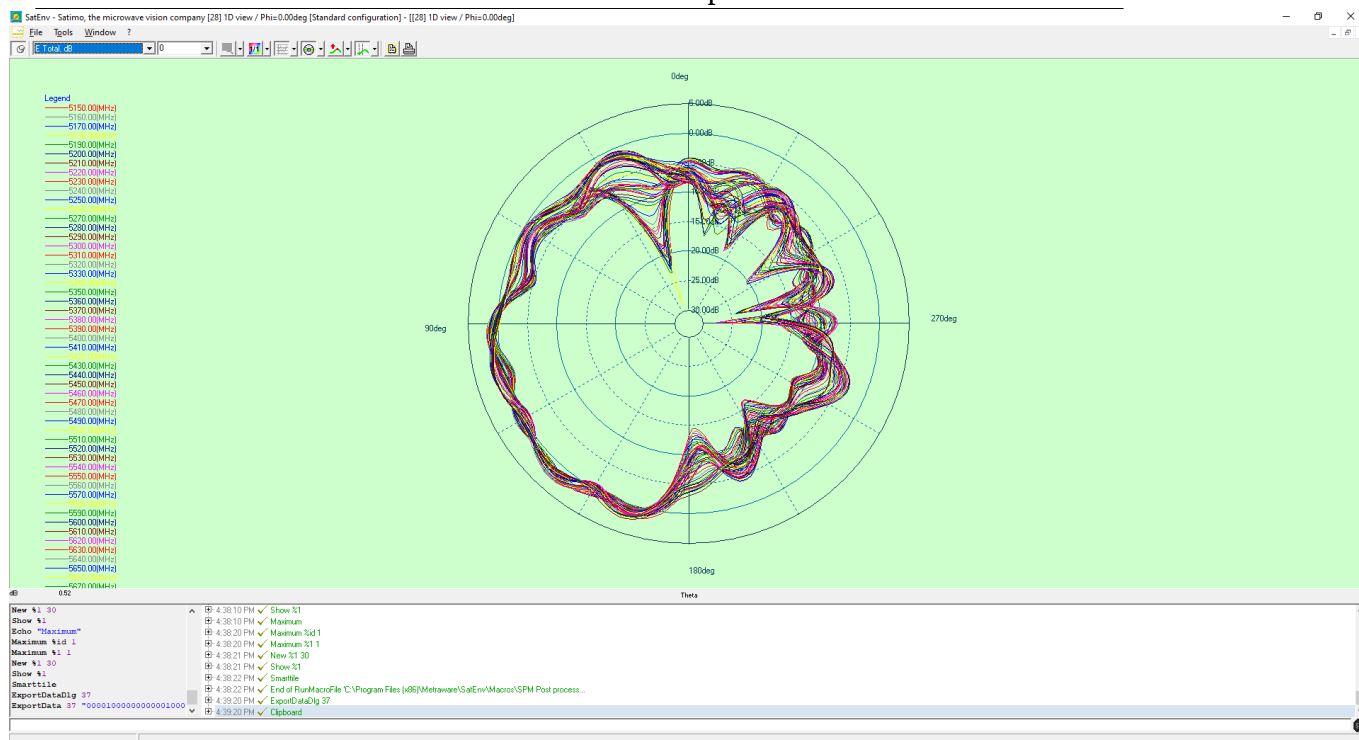
Antenna_1_5G_2D

Frequency and color lines correspond to the correlation graph.

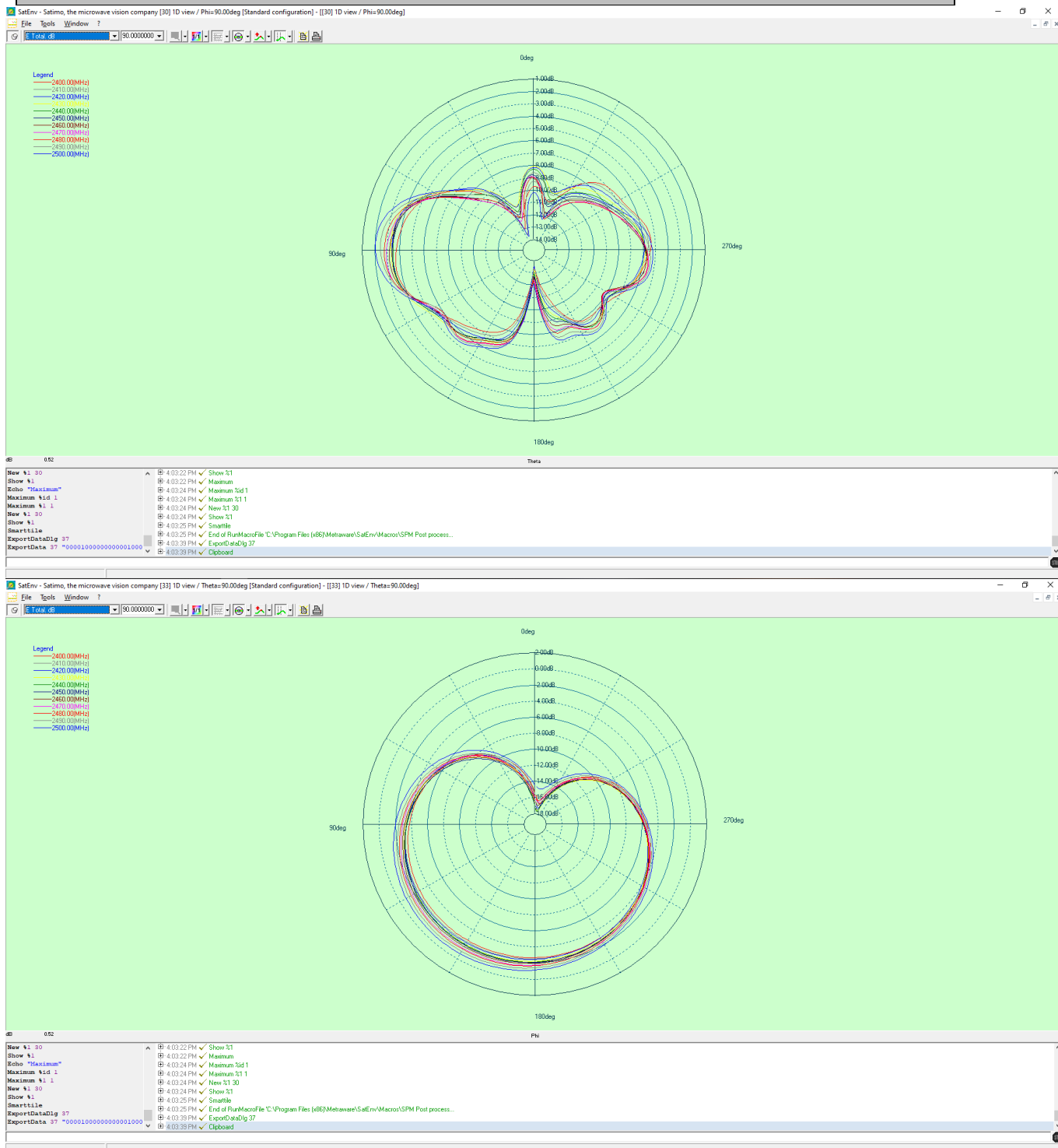
Due to the size of the field strength plot, it is not possible to display all frequency-related color curves, please refer to this figure for the part that is not displayed.

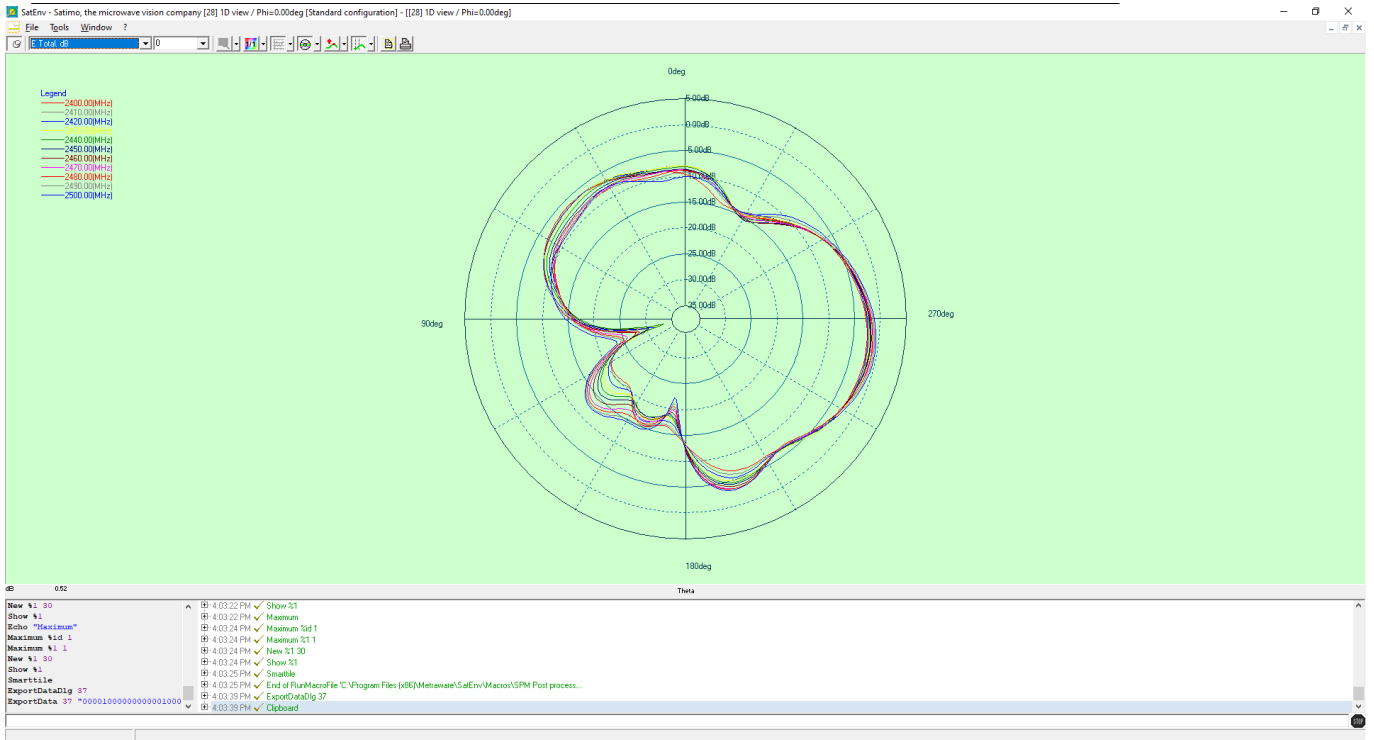






Antenna_2_2.4G_2D

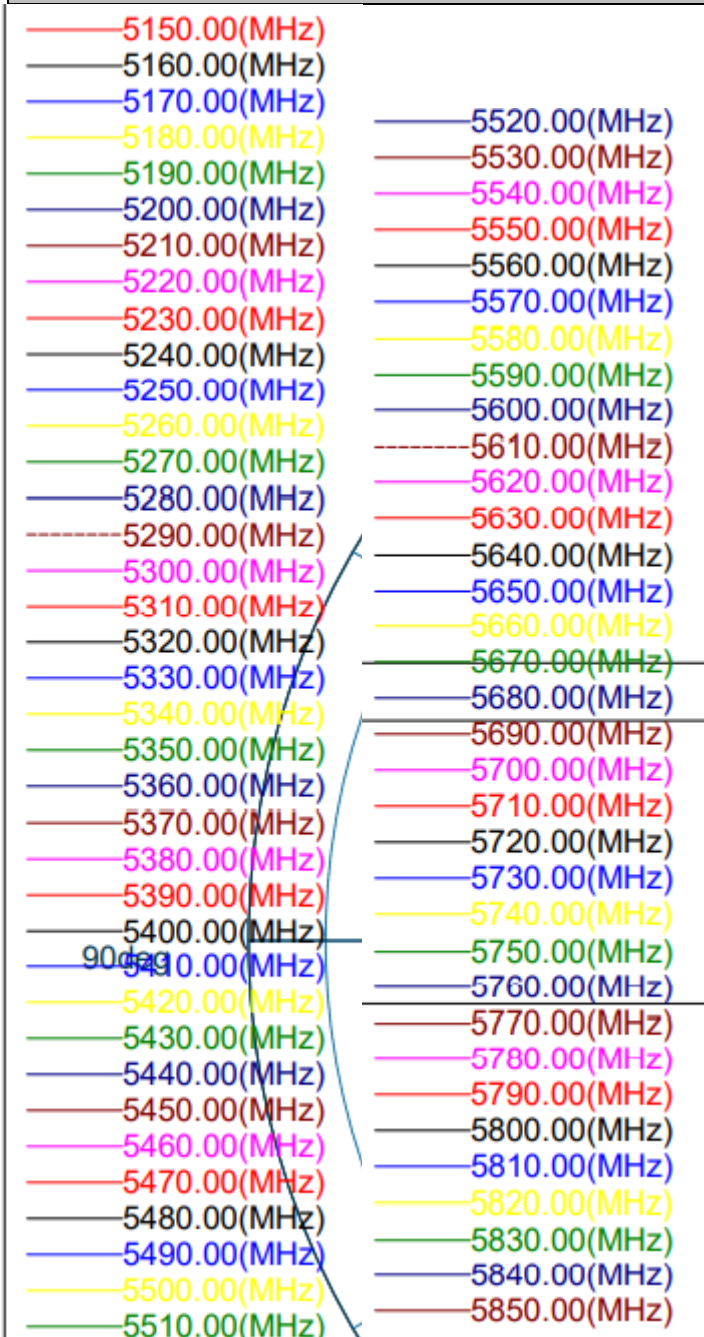


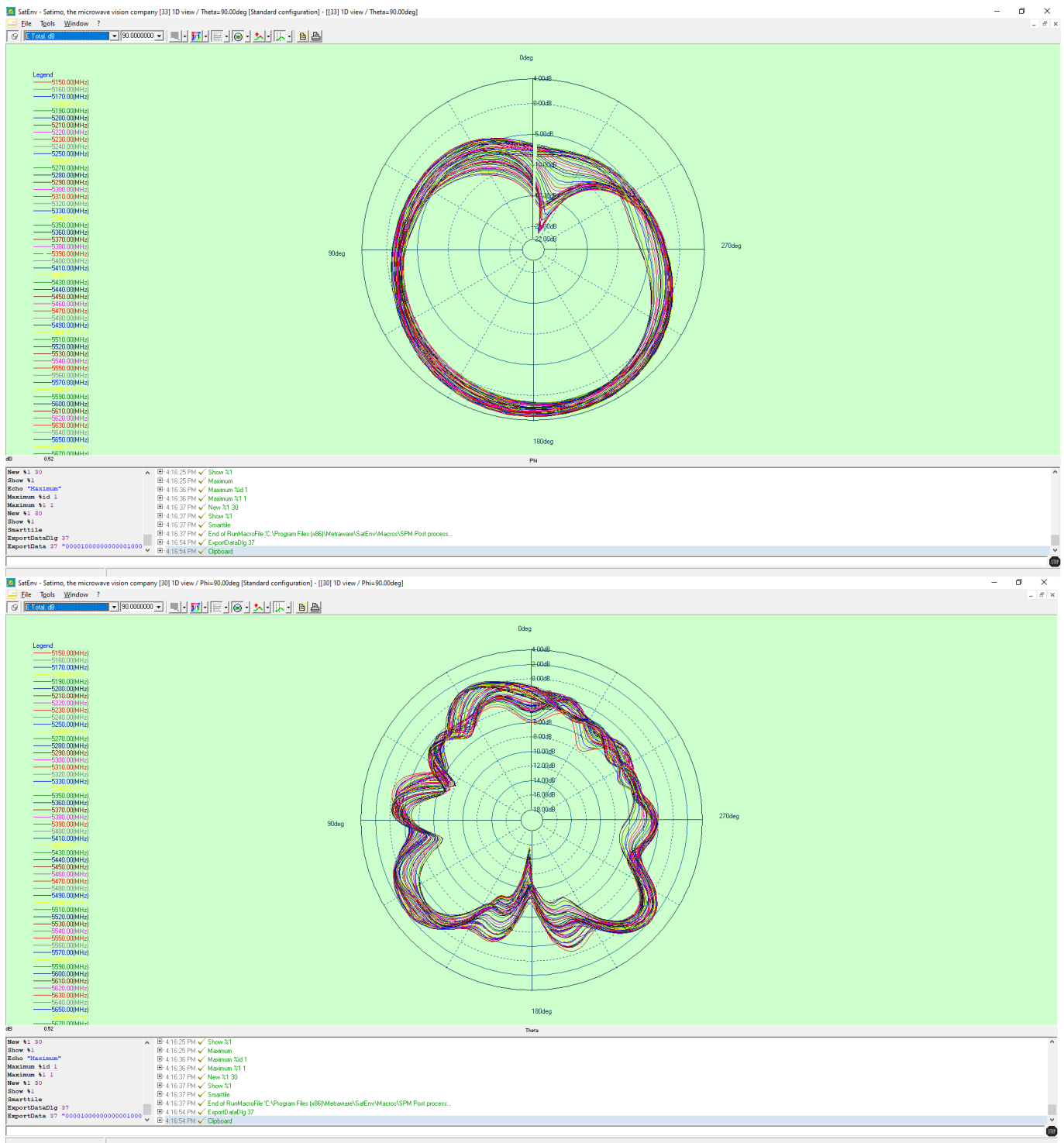


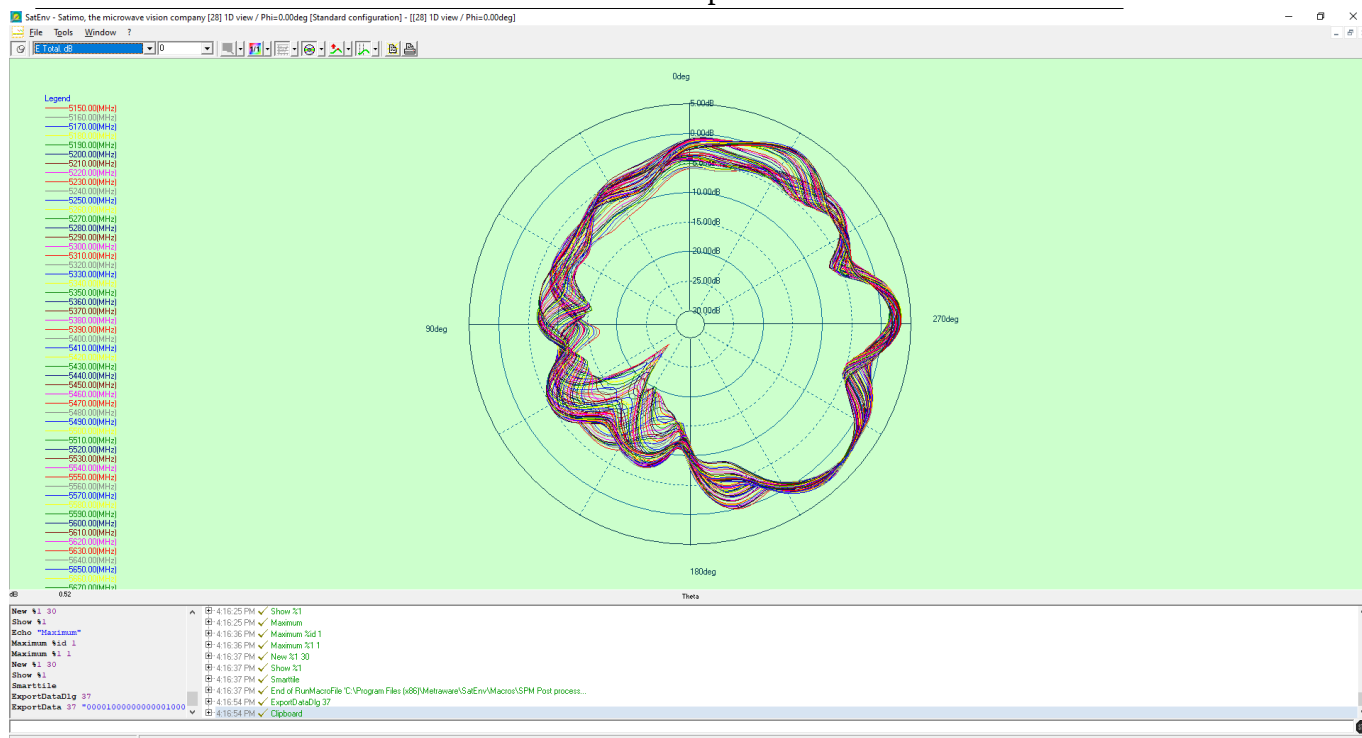
Antenna_2_5G_2D

Frequency and color lines correspond to the correlation graph.

Due to the size of the field strength plot, it is not possible to display all frequency-related color curves, please refer to this figure for the part that is not displayed.







4 Peak Gain

4.1 Test results

Antenna1_2.4G_Peak Gain	
Frequency	Peak_Gain . dB
240000000	-2.082372612
243000000	-1.557720139
245000000	-1.404138316
247000000	-0.984083374
250000000	-0.359537921

Antenna1_5G_Peak Gain	
Frequency	Peak_Gain . dB
515000000	2.486637568
535000000	2.733289212
555000000	3.361864346
575000000	2.914334771
585000000	2.216801324

Antenna2_2.4G_Peak Gain	
Frequency	Peak_Gain . dB
240000000	-2.471197864
243000000	-1.795913966
245000000	-1.818215716
247000000	-1.471899871
250000000	-0.992686063

Antenna2_5G_Peak Gain	
Frequency	Peak_Gain . dB
515000000	1.843883389
535000000	2.466678881
555000000	2.894477204
575000000	2.890801153
585000000	2.455603232

STATEMENT

- a) The test report applies only to the specific samples tested under conditions.
- b) The test report is invalid without the Inspection Seal.
- c) The test report is invalid without the signature of the test engineer, auditor, Approver.
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- f) The test results presented in this report is only valid on the tested samples.
- g) Objections to this report should be submitted to the inspection organization in 15 days of receipting the report. It is not accepted if overdue.

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(END OF REPORT)