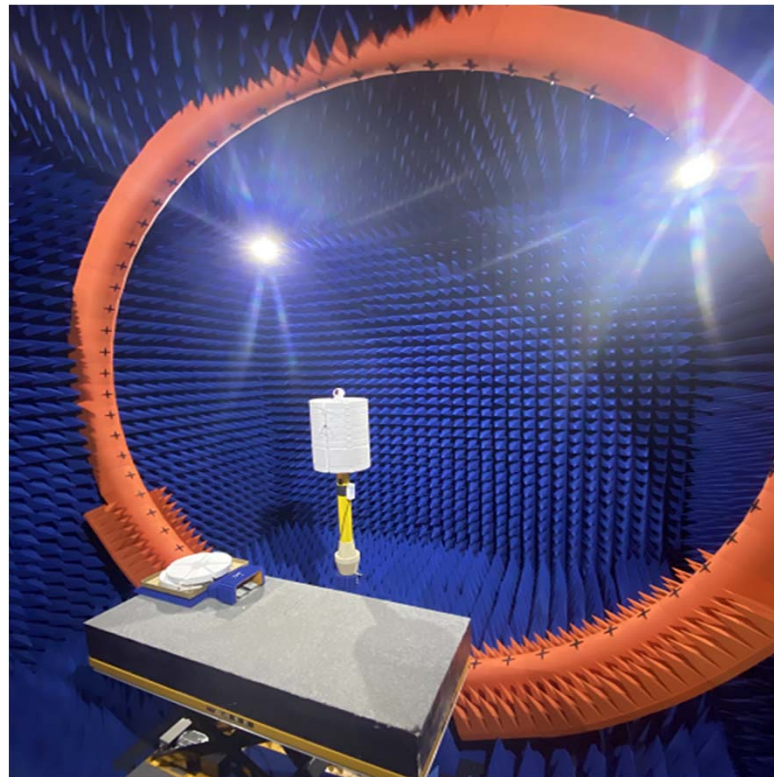


Antenna Study

- **Client Name:Dygma Lab S.L.**
- **Project Name:2.4 GHz antenna**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2022.11.03**



Testing 3D microwave darkroom(6m*6m*6m)

External Antenna

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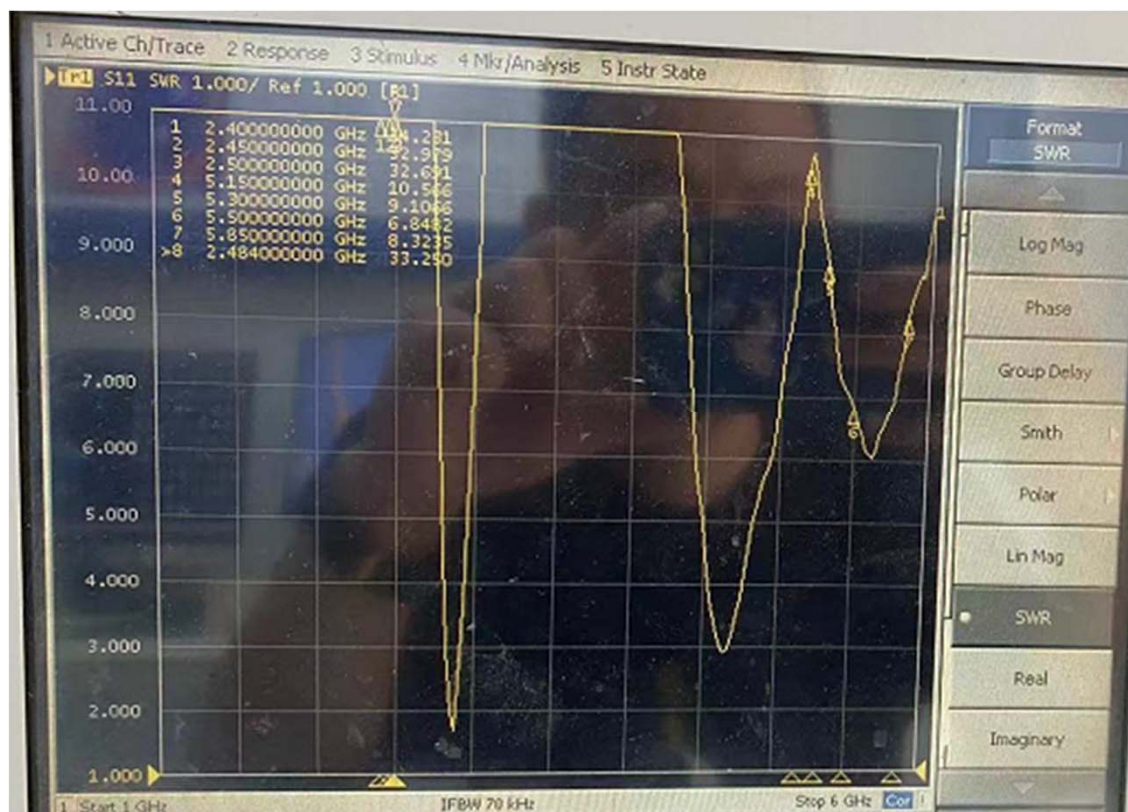


- Antenna name: 2.4G
- Antenna Type: PIFA
- Covers : 2400-2500MHz

Antenna

Parameter_Return Loss&VSWR

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Efficiency and Gain

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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-19.18	-19.17	-19.11	-19.01	-18.79	-18.58	-18.14	-18.05	-18.24	-17.99	-17.92
Gain (dBi)	-3.41	-3.00	-3.10	-3.77	-3.63	-3.74	-3.55	-3.49	-3.00	-3.24	-3.16
Efficiency (%)	1.21	1.21	1.23	1.26	1.32	1.39	1.53	1.57	1.50	1.59	1.62

Freespace Environment Performance – 2.4G

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