



## Dipole Impedance Measurement

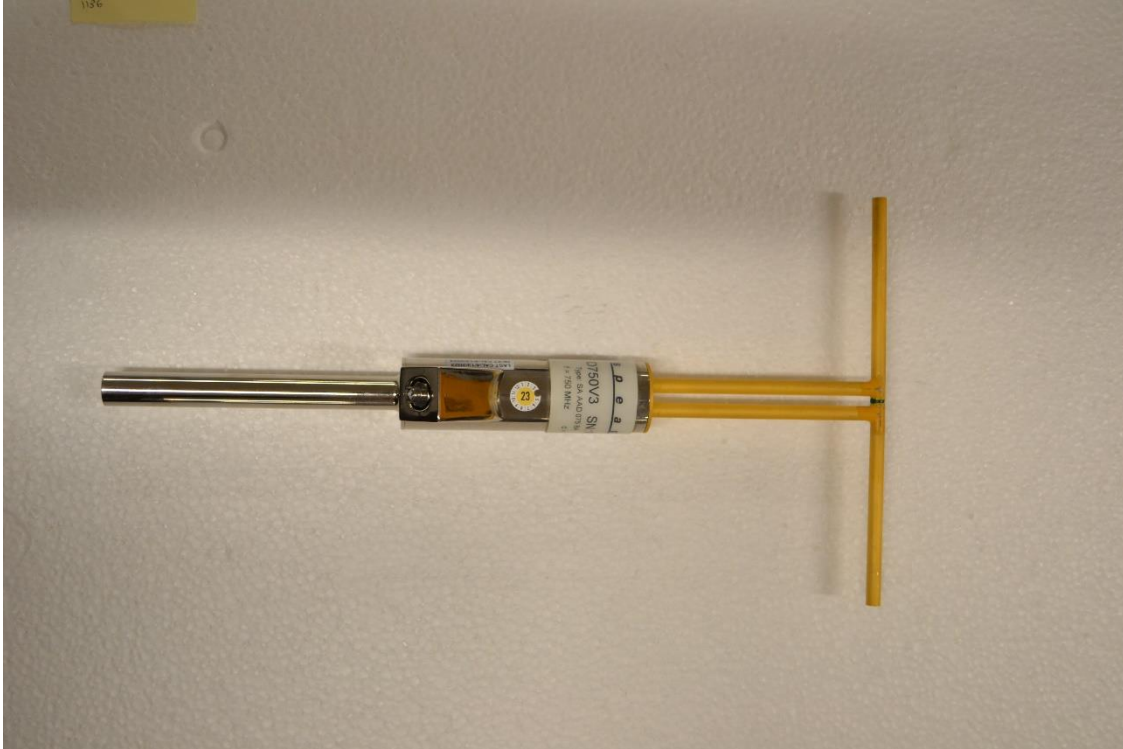
Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D750V3-1019	April 13, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

## Dipole Impedance Measurement

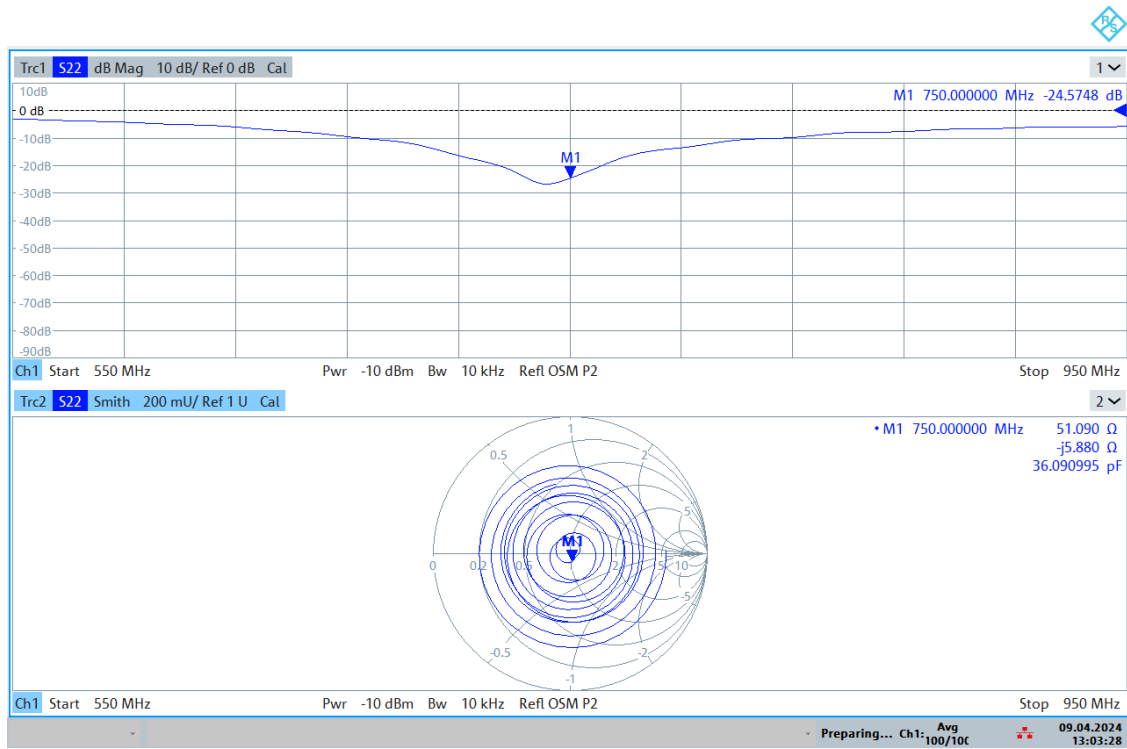
### 1) Photo of Dipole



- The connector of dipole contains no abnormalities.

## Dipole Impedance Measurement

### 2) Impedance and Return/Loss

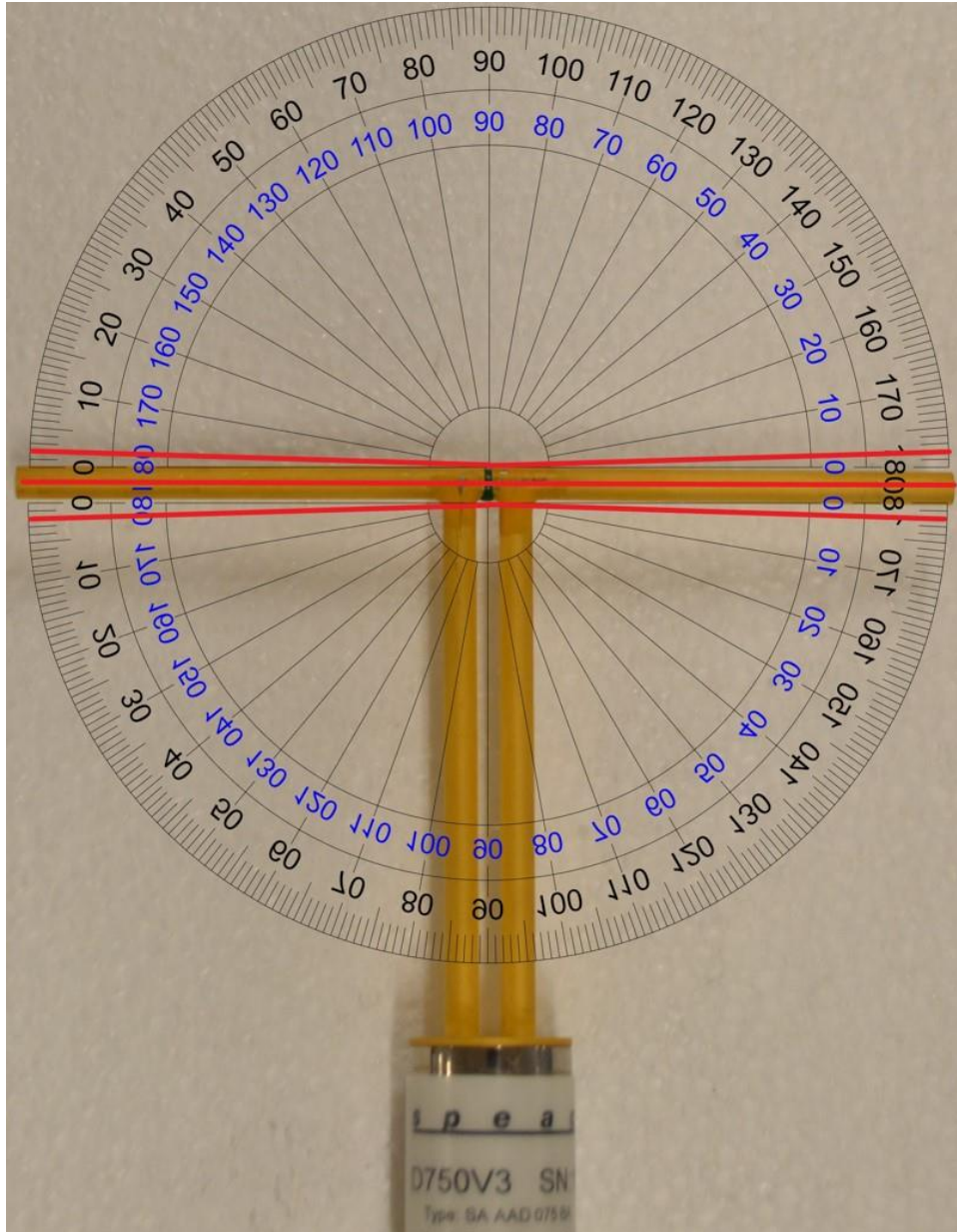


13:03:29 09.04.2024

- Return/Loss is greater than the -20 dB cutoff and Impedance is within 5  $\Omega$  of previous value.

## Dipole Impedance Measurement

### 3) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$



## Dipole Impedance Measurement

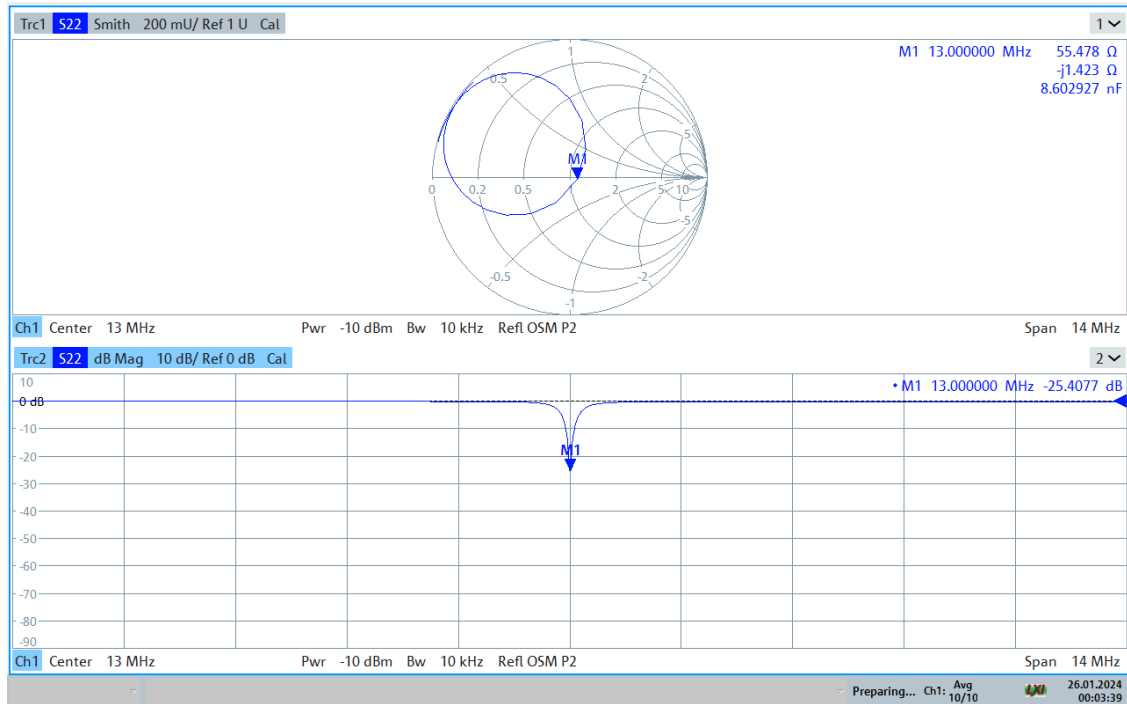
Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	CLA13-1008	January 12, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

## Dipole Impedance Measurement

### 4) Impedance and Return/Loss



00:03:40 26.01.2024

- Return/Loss is greater than the -20 dB cutoff and Impedance is within 5 Ω of previous value.



## Dipole Impedance Measurement

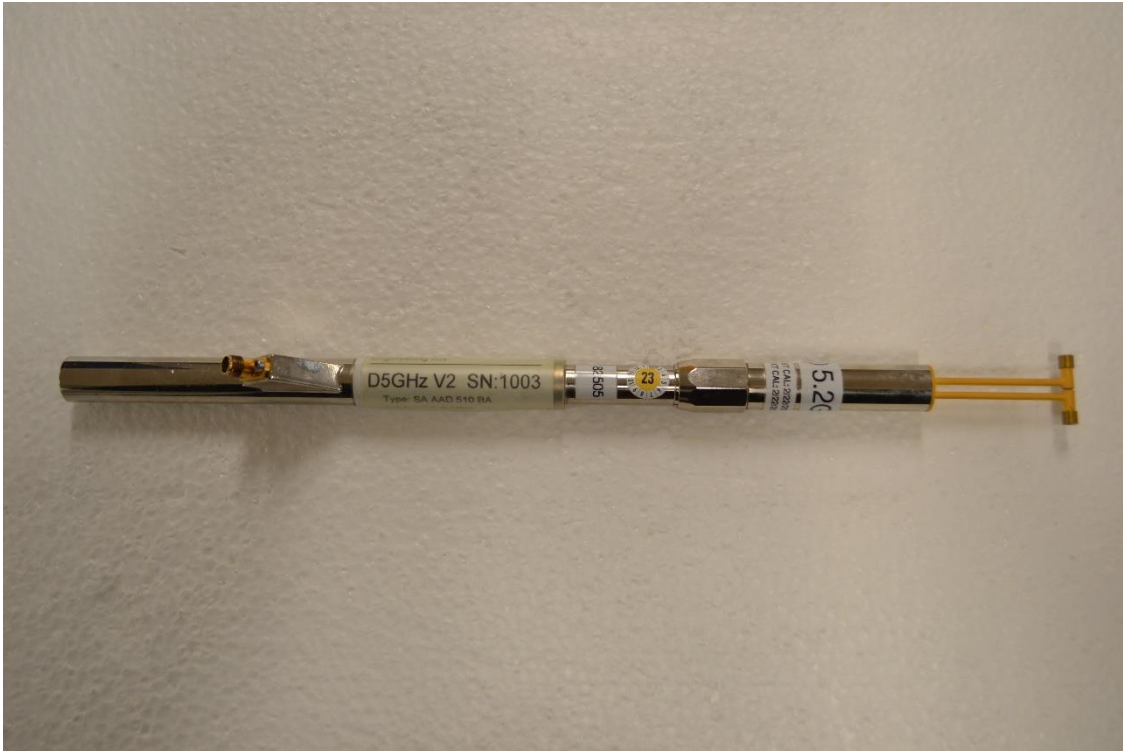
Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D5GHzV2-1003	February 22, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

## Dipole Impedance Measurement

### 5) Photo of Dipole

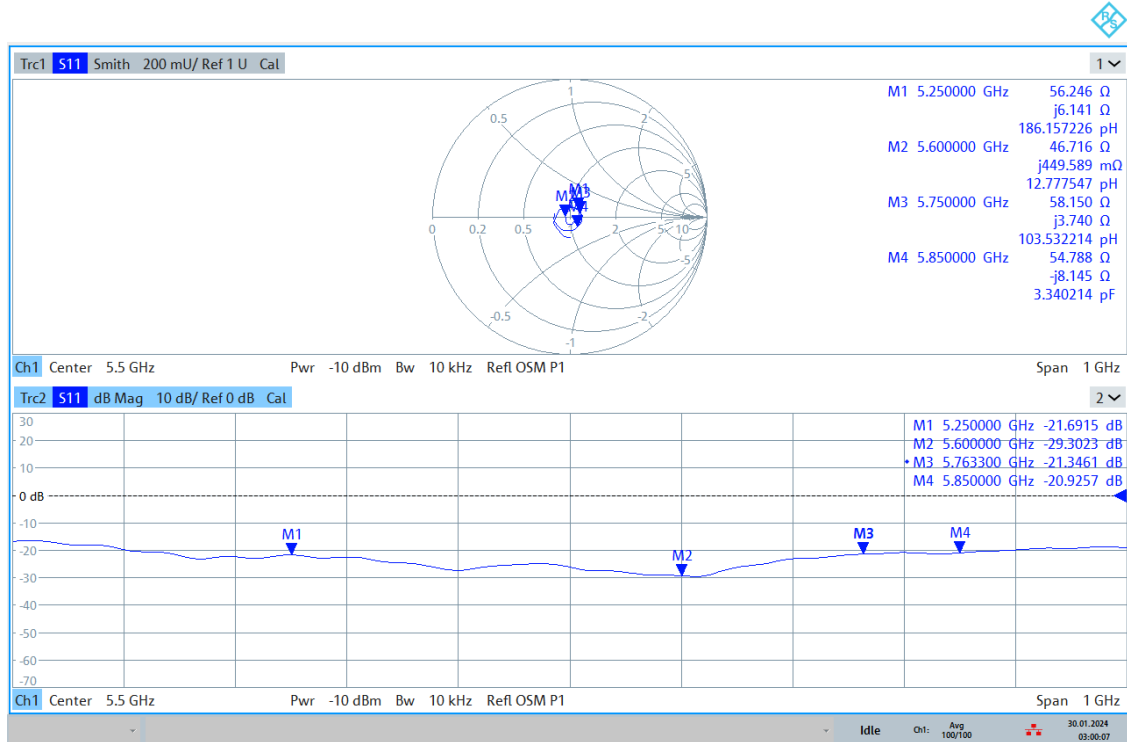


- The connector of dipole contains no abnormalities.



## Dipole Impedance Measurement

### 6) Impedance and Return/Loss

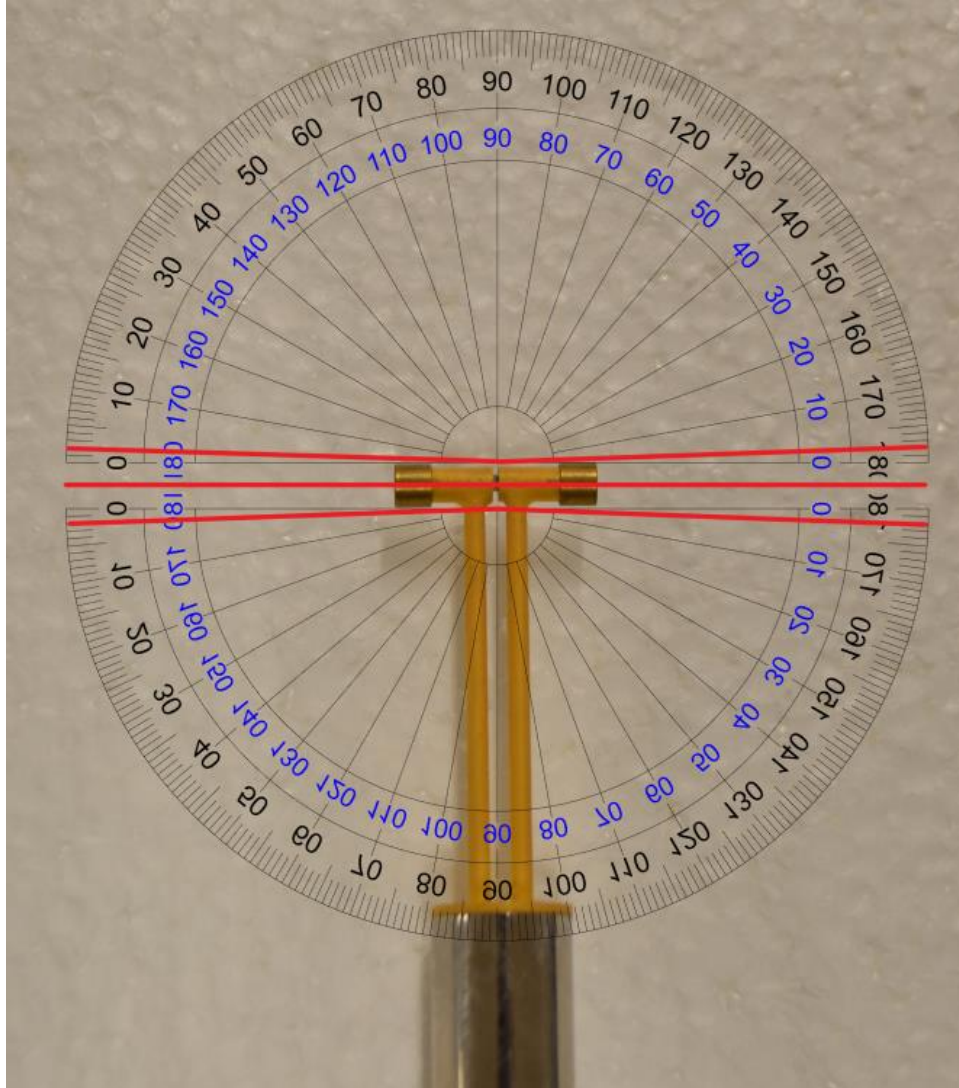


03:00:08 30.01.2024

- Return/Loss is greater than the -20 dB cutoff and Impedance is within 5  $\Omega$  of previous value.

## Dipole Impedance Measurement

### 7) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$



## Dipole Impedance Measurement

Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D6.5GHzV2-1033	March 15, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

## Dipole Impedance Measurement

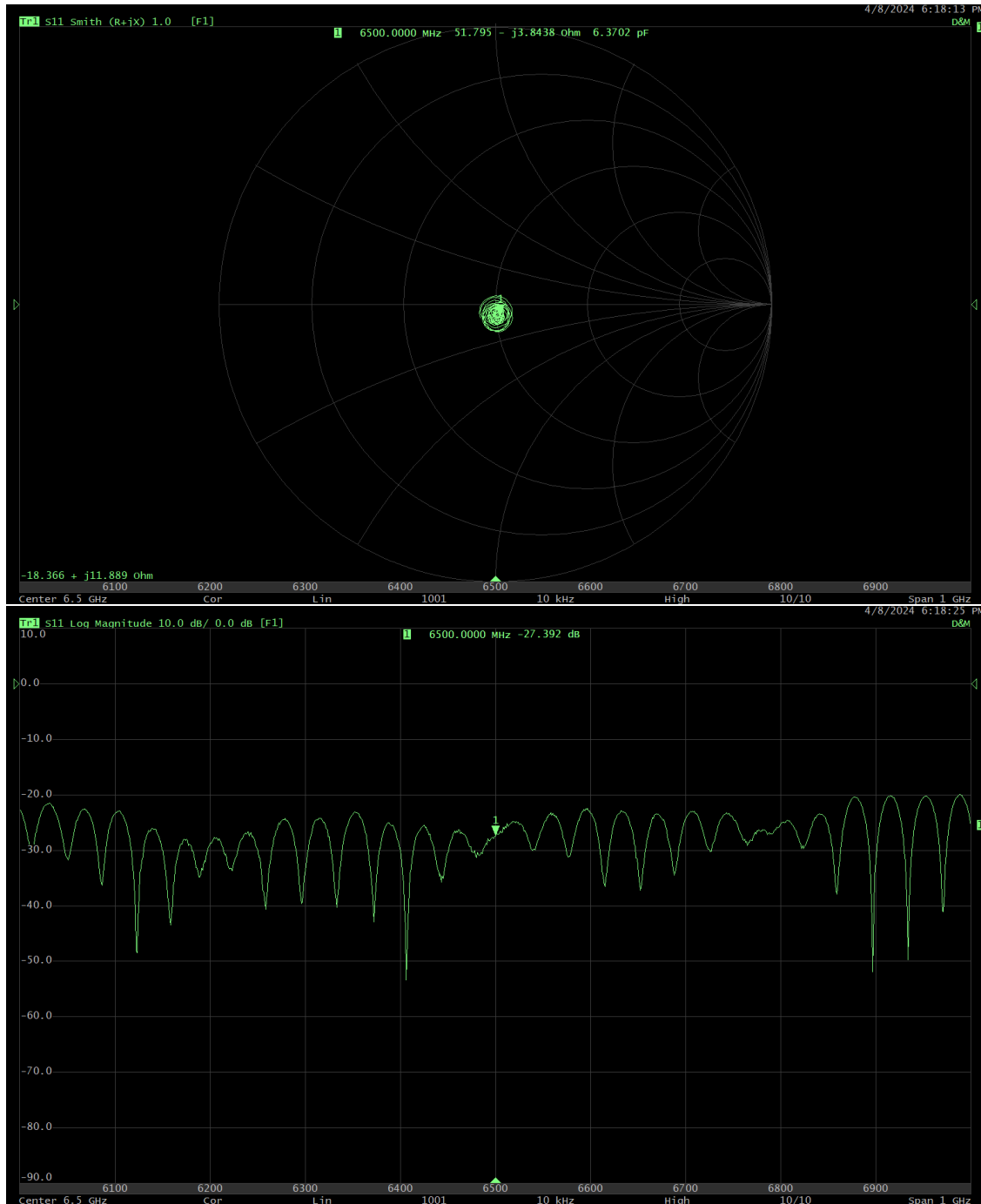
### 8) Photo of Dipole



- The connector of dipole contains no abnormalities.

## Dipole Impedance Measurement

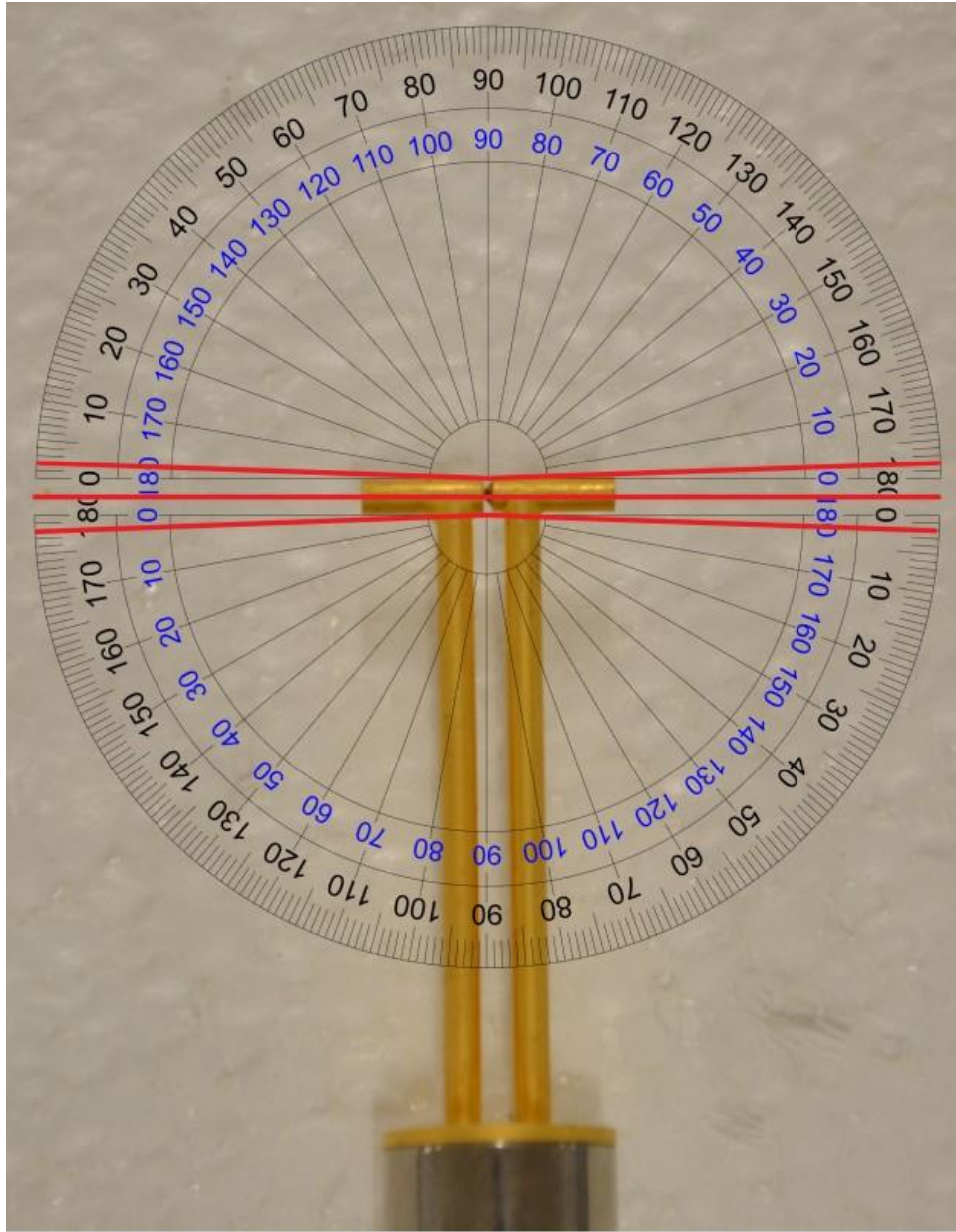
### 9) Impedance and Return/Loss



- Return/Loss is greater than the -20 dB cutoff and Impedance is within  $5 \Omega$  of previous value.

## Dipole Impedance Measurement

### 10) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$



## Dipole Impedance Measurement

Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D1900V2-5d140	April 14, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

Dipole Impedance Measurement

11) Photo of Dipole

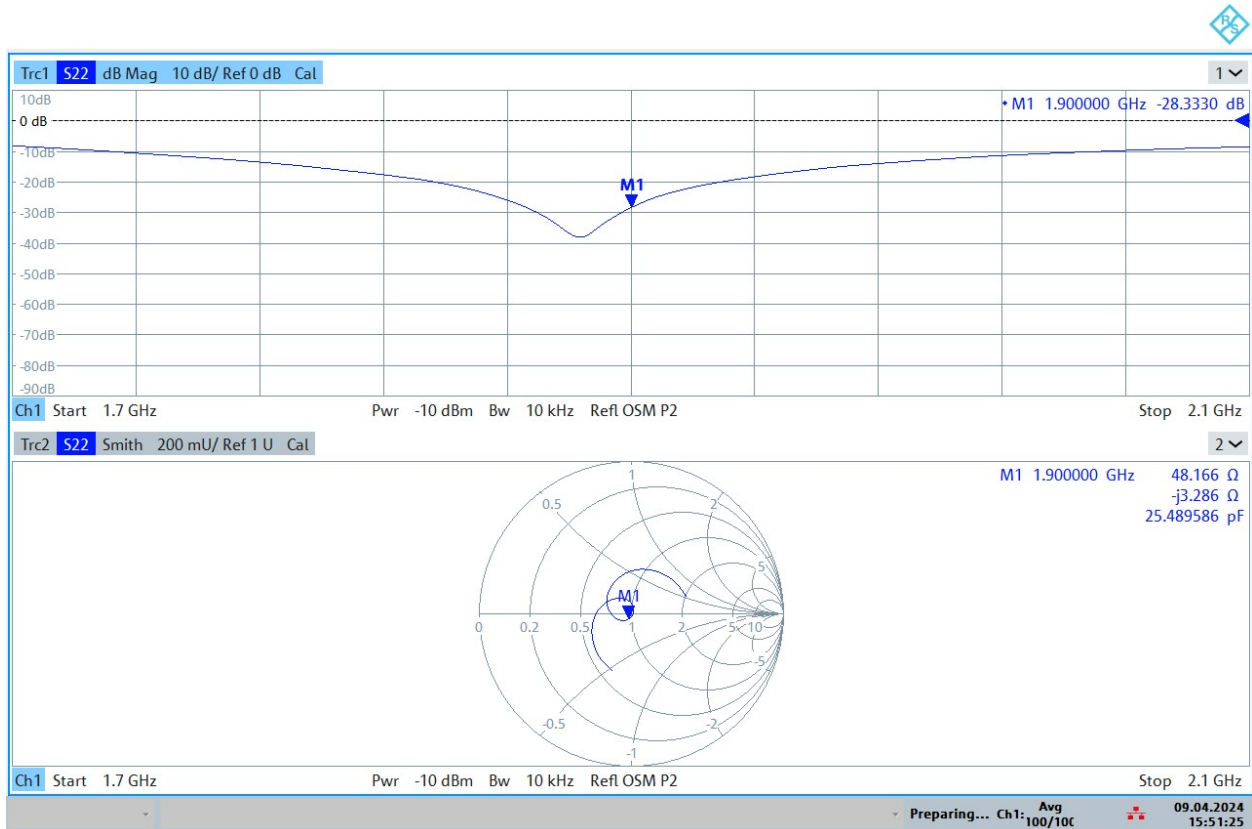


- The connector of dipole contains no abnormalities.



## Dipole Impedance Measurement

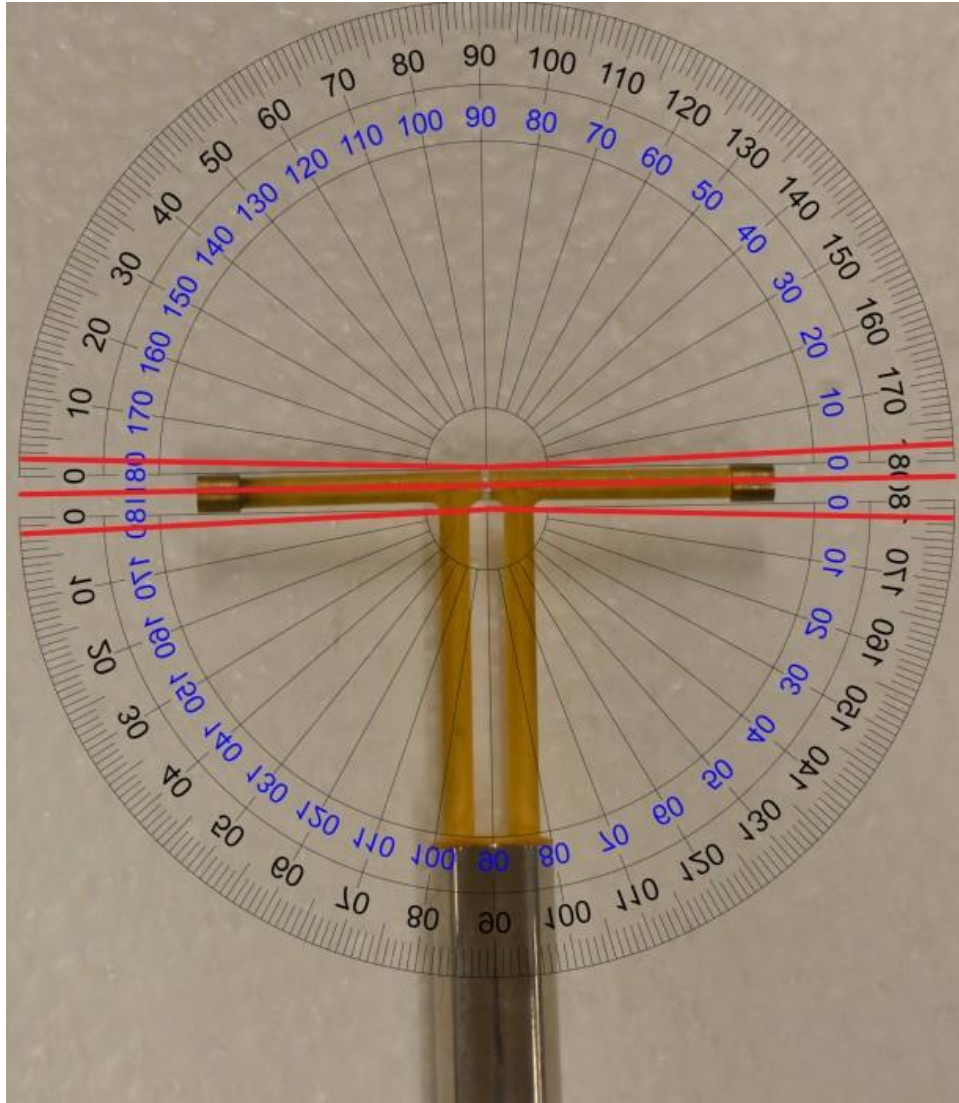
### 12) Impedance and Return/Loss



- Return/Loss is greater than the -20 dB cutoff and Impedance is within 5 Ω of previous value.

## Dipole Impedance Measurement

### 13) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$



## Dipole Impedance Measurement

Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D1950V2-1136	April 14, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

Dipole Impedance Measurement

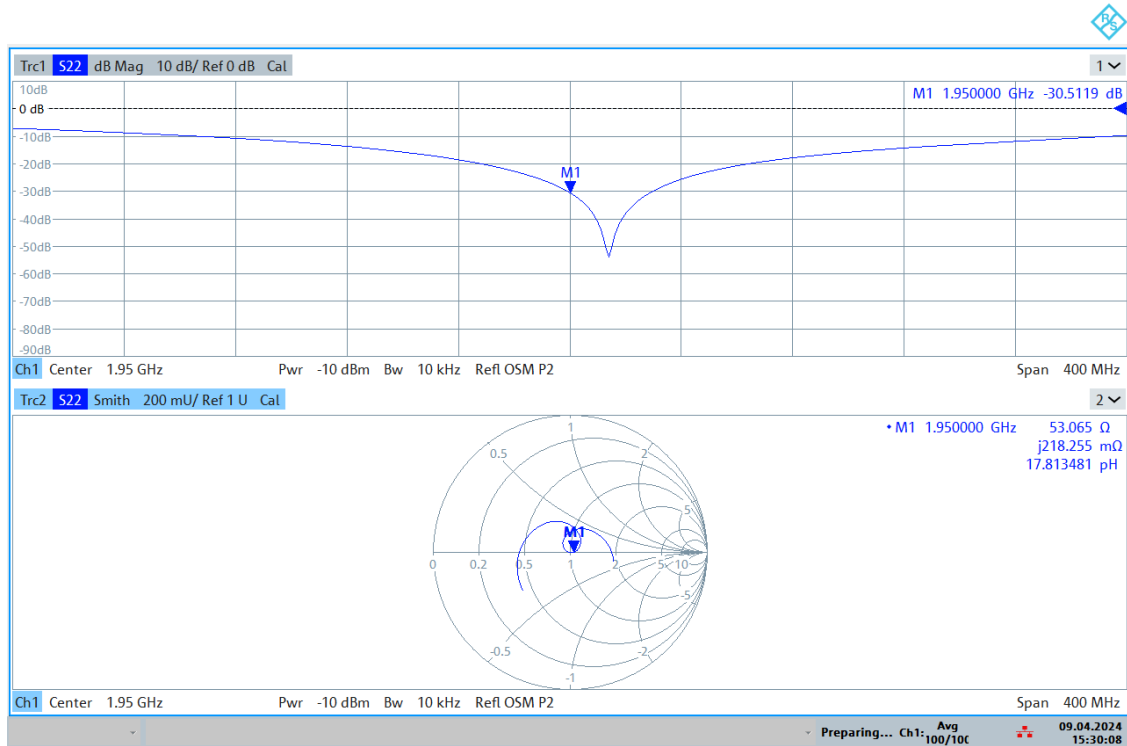
14) Photo of Dipole



- The connector of dipole contains no abnormalities.

## Dipole Impedance Measurement

### 15) Impedance and Return/Loss

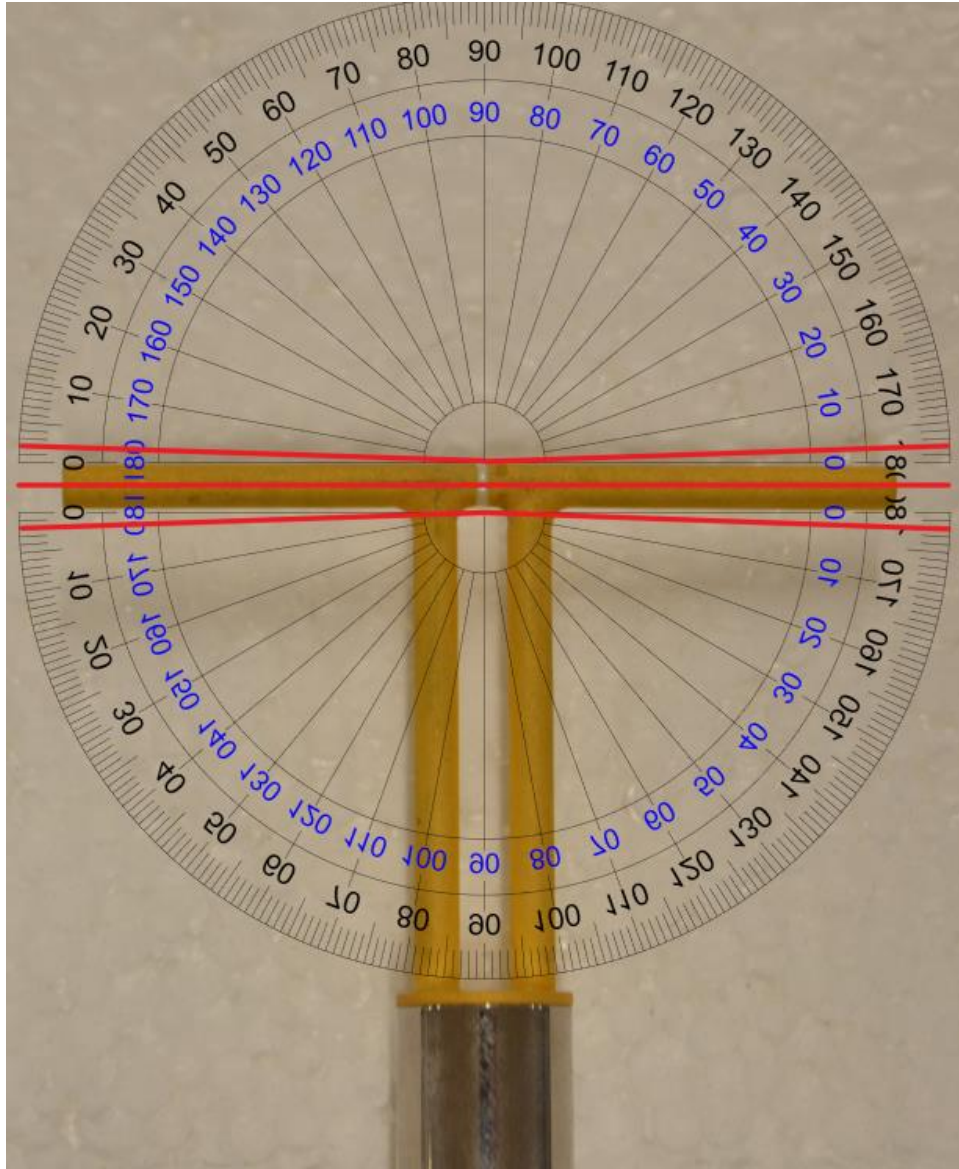


15:30:09 09.04.2024

- Return/Loss is greater than the -20 dB cutoff and Impedance is within 5 Ω of previous value.

## Dipole Impedance Measurement

### 16) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$



## Dipole Impedance Measurement

Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D2450V2-748	February 08, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

## Dipole Impedance Measurement

17) Photo of Dipole

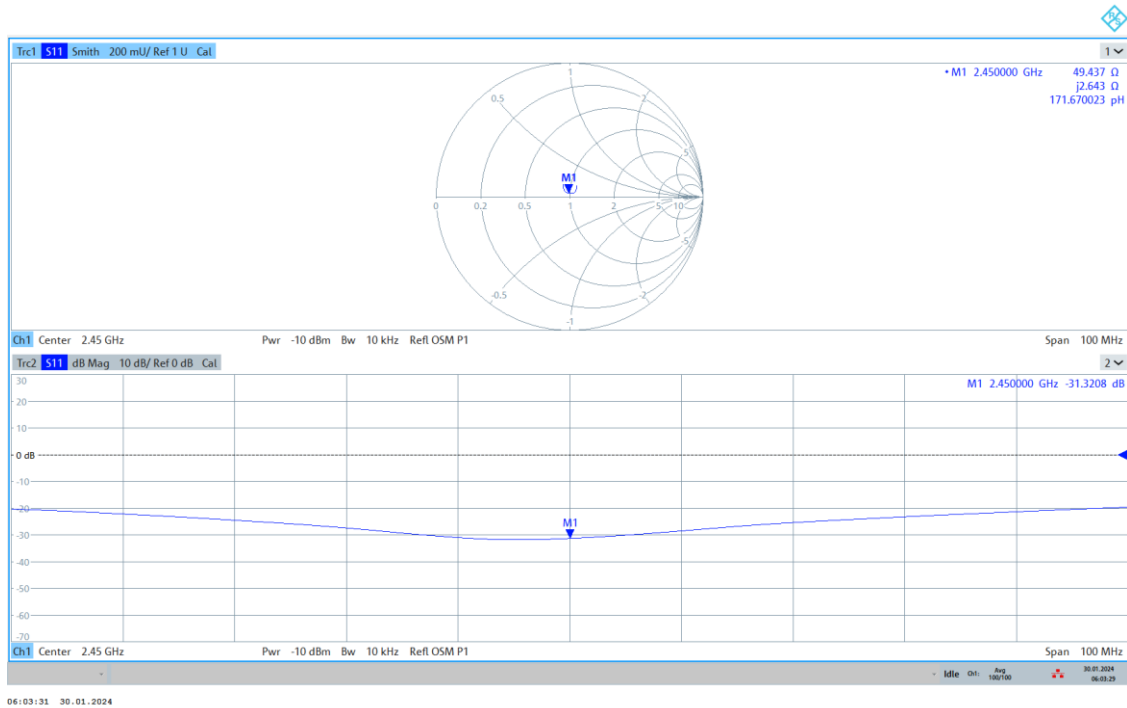


- The connector of dipole contains no abnormalities.



## Dipole Impedance Measurement

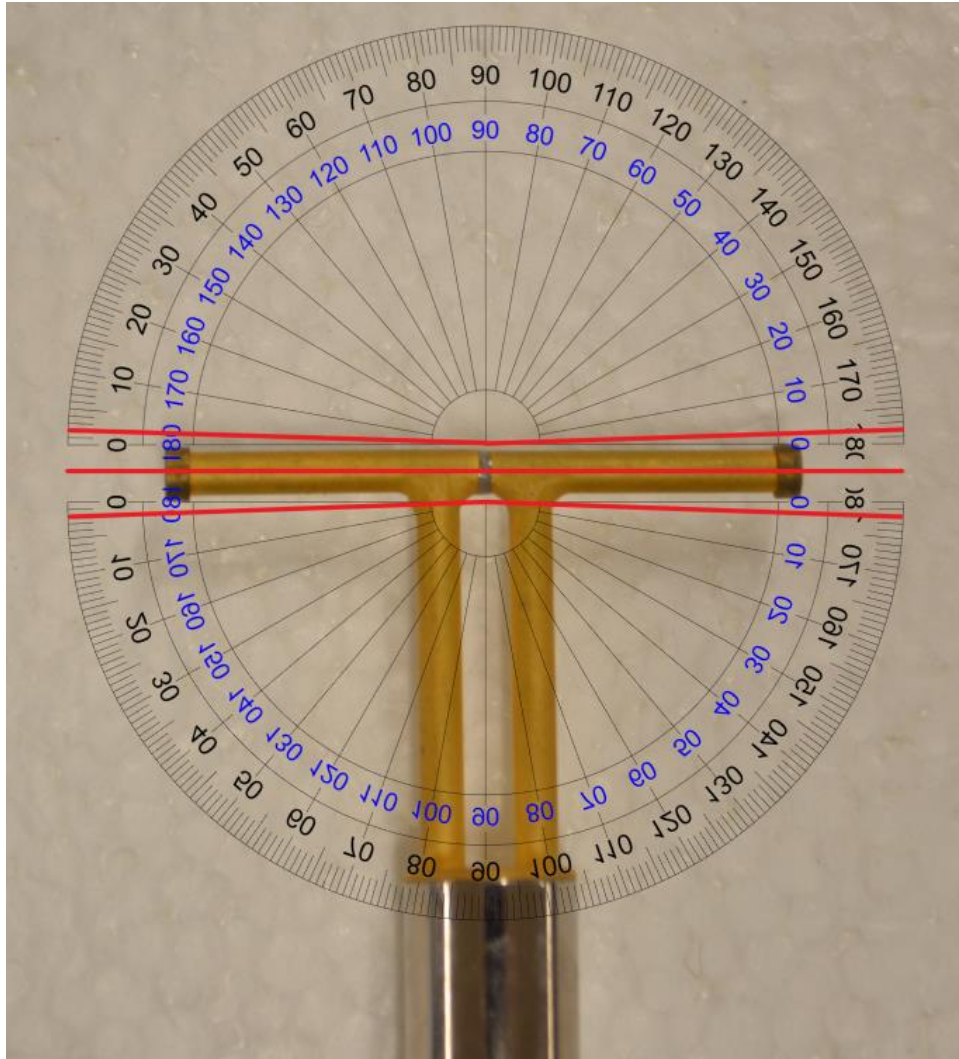
### 18) Impedance and Return/Loss



- Return/Loss is greater than the -20 dB cutoff and Impedance is within  $5 \Omega$  of previous value.

## Dipole Impedance Measurement

### 19) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$



## Dipole Impedance Measurement

Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D3500V2-1060	February 07, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S ZNLE6 Vector Network Analyzer	03/05/2024
ZV-Z135 Calibration Kit	03/27/2024

Dipole Impedance Measurement

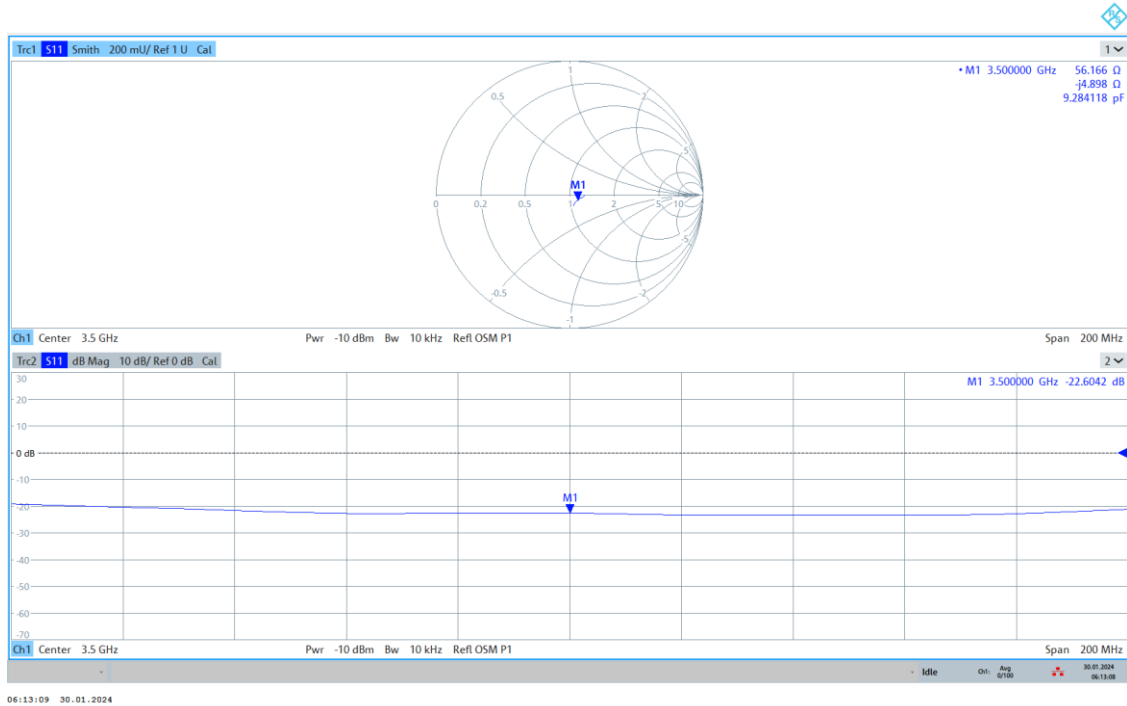
20) Photo of Dipole



- The connector of dipole contains no abnormalities.

## Dipole Impedance Measurement

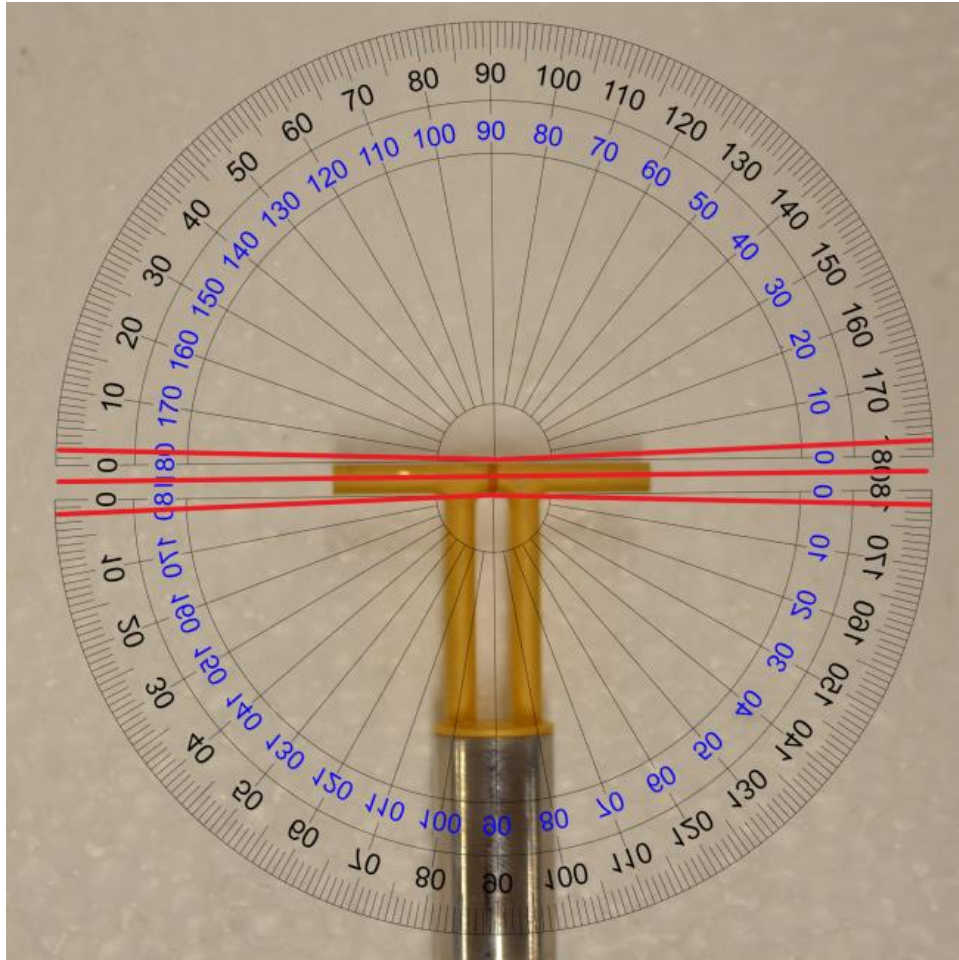
### 21) Impedance and Return/Loss



- Return/Loss is greater than the -20 dB cutoff and Impedance is within 5  $\Omega$  of previous value.

## Dipole Impedance Measurement

### 22) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$



## Dipole Impedance Measurement

Equipment Location	Equipment Name	Model Name	Date of Verification
UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.	Dipole Antenna	D3700V2-1039	October 2, 2023

Number:	Check List:	Result:
1	Visual Inspection	Pass
2	Return/Loss and Impedance	Pass
3	Dipole Arms	Pass

Equipment List:	
Equipment Name:	Calibration Date:
R&S Vector Network Analyzer	2/18/2023
ZV-Z135 Calibration Kit	3/10/2023

Dipole Impedance Measurement

23) Photo of Dipole

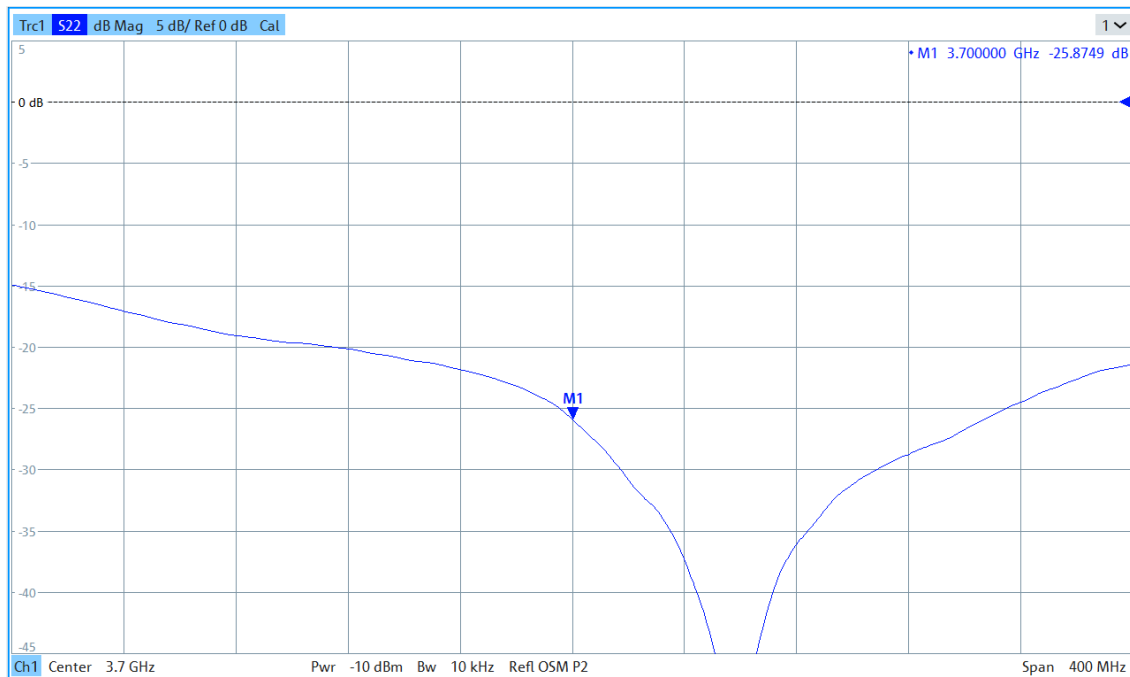
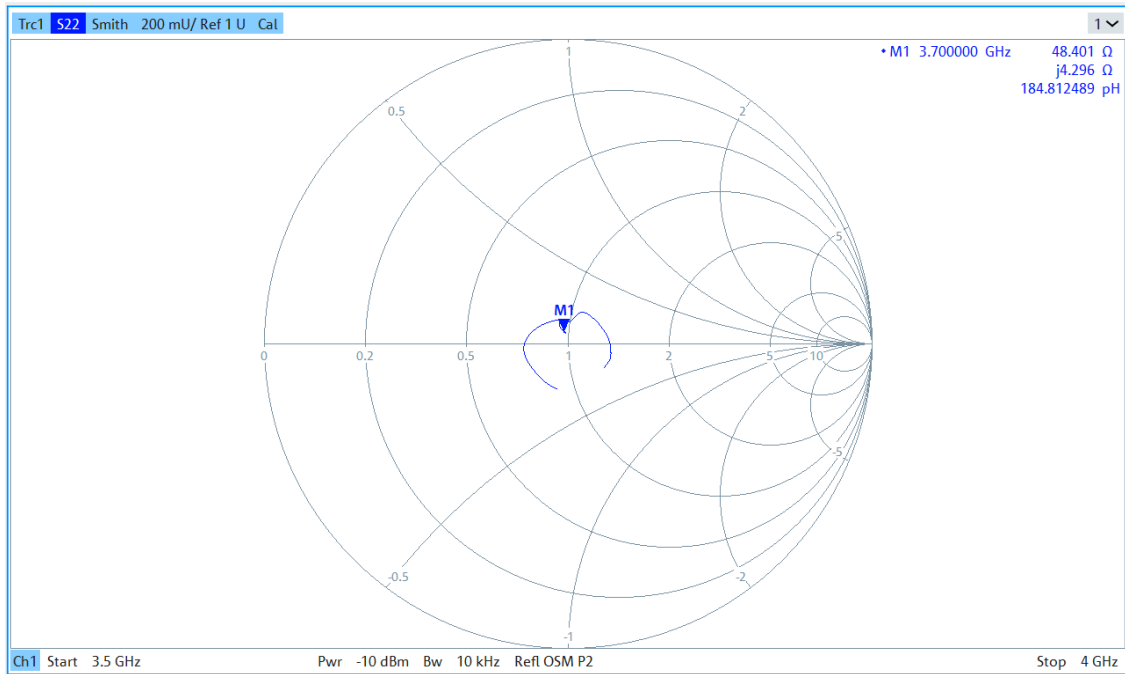


- The connector of dipole contains no abnormalities.



## Dipole Impedance Measurement

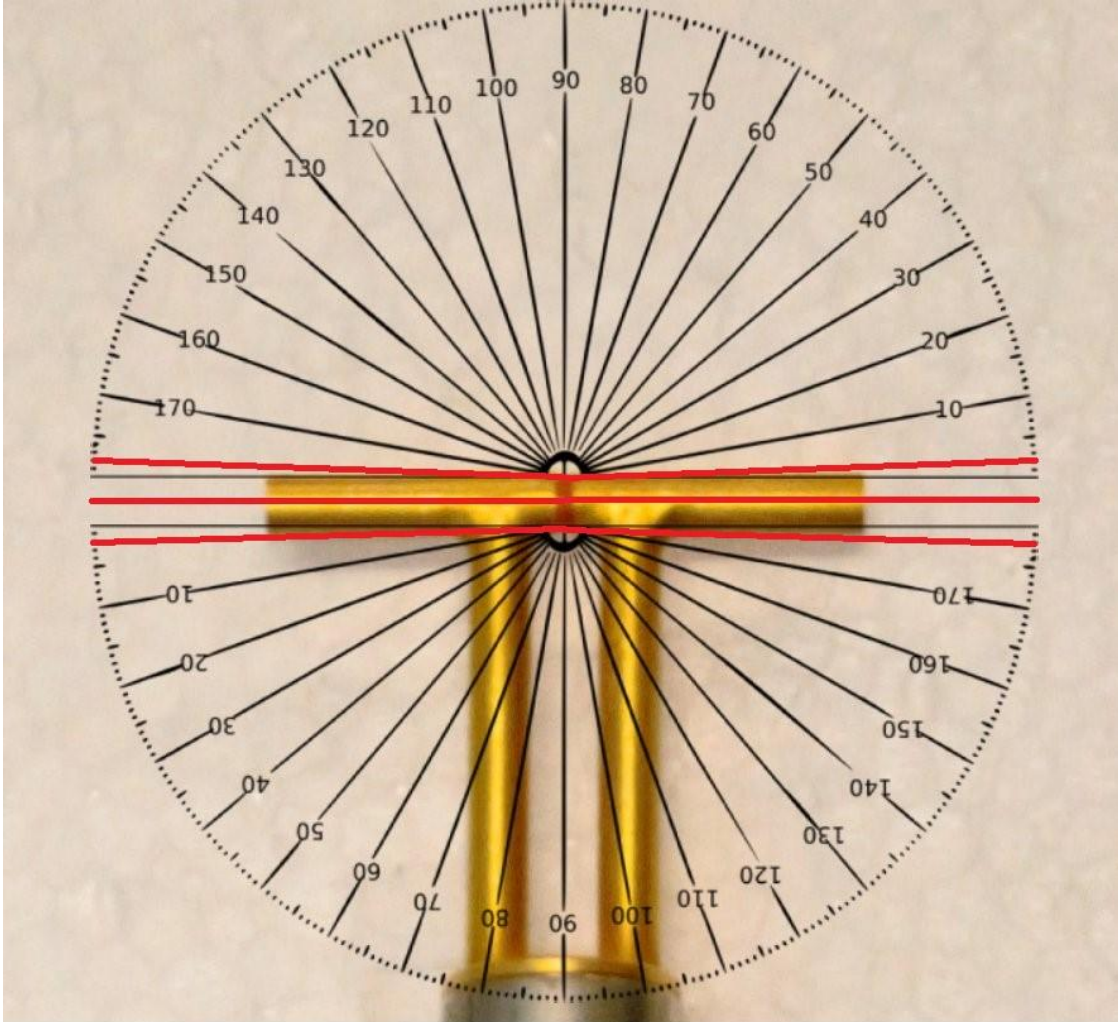
### 24) Impedance and Return/Loss



- Return/Loss is greater than the -20 dB cutoff and Impedance is within 5  $\Omega$  of previous value.

## Dipole Impedance Measurement

### 25) Dipole Arms



- The center red line indicates that the arms of the dipole fall within  $\pm 2^\circ$