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## SAR Dipole Performance Measurement Report

**EUT Type:** SAR Validation Dipole and Waveguide  
**Model Name:** DIP2G450  
**Brand Name:** SATIMO  
**Test Conclusion:** Pass  
**Test Date:** 01 Jul. 2024&03 Jul. 2025  
**Date of Issue:** 03 Jul. 2025

Testing Engineer :

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(Xin.Liu)

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Shi fan-long

(Shifan. Long)

Authorized Signatory :

Bovey Yang

(Bovey Yang)



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| Kind of Equipment         | Manufacturer | Type No.            | Serial No.          | Last Calibration | Calibrated Until |
|---------------------------|--------------|---------------------|---------------------|------------------|------------------|
| PC                        | Acer         | N/A                 | N/A                 | N/A              | N/A              |
| E-Field Probe             | MVG          | SSE2                | SN 08/21<br>EPGO352 | 2024.09.18       | 2025.09.17       |
| Dielectric Probe Kit      | MVG          | SCLMP               | SN 32/14<br>OCPG67  | 2024.09.18       | 2025.09.17       |
| Phantom1                  | MVG          | SAM                 | SN 32/14<br>SAM115  | N/A              | N/A              |
| Phantom2                  | MVG          | SAM                 | SN 32/14<br>SAM116  | N/A              | N/A              |
| Attenuator                | Agilent      | 99899               | DC-18GHz            | N/A              | N/A              |
| Directional coupler       | Narda        | 4226-20             | 3305                | N/A              | N/A              |
| Network Analyzer          | Agilent      | E5071C              | MY46520378          | 2024-09-25       | 2025-09-26       |
| Multi Meter               | Keithley     | Multi Meter<br>2000 | 4050073             | 2024-09-25       | 2025-09-26       |
| Signal Generator          | Agilent      | N5182A              | MY50140530          | 2024-09-25       | 2025-09-26       |
| Power Amplifier           | DESAY        | ZHL-42W             | 9638                | 2024-09-25       | 2025-09-26       |
| Power Meter               | R&S          | NRP                 | 100510              | 2024-09-25       | 2025-09-26       |
| Power Sensor              | R&S          | NRP-Z11             | 101919              | 2024-09-25       | 2025-09-26       |
| Power Sensor              | Keysight     | U2021XA             | MY56280002          | 2024-09-25       | 2025-09-26       |
| Temperature<br>hygrometer | SuWei        | SW-108              | N/A                 | 2024.10.15       | 2025.10.14       |
| Thermograph               | Elitech      | RC-4                | S/N<br>EF7176501537 | 2024.10.15       | 2025.10.14       |



## 2. <Justification of the extended calibration>

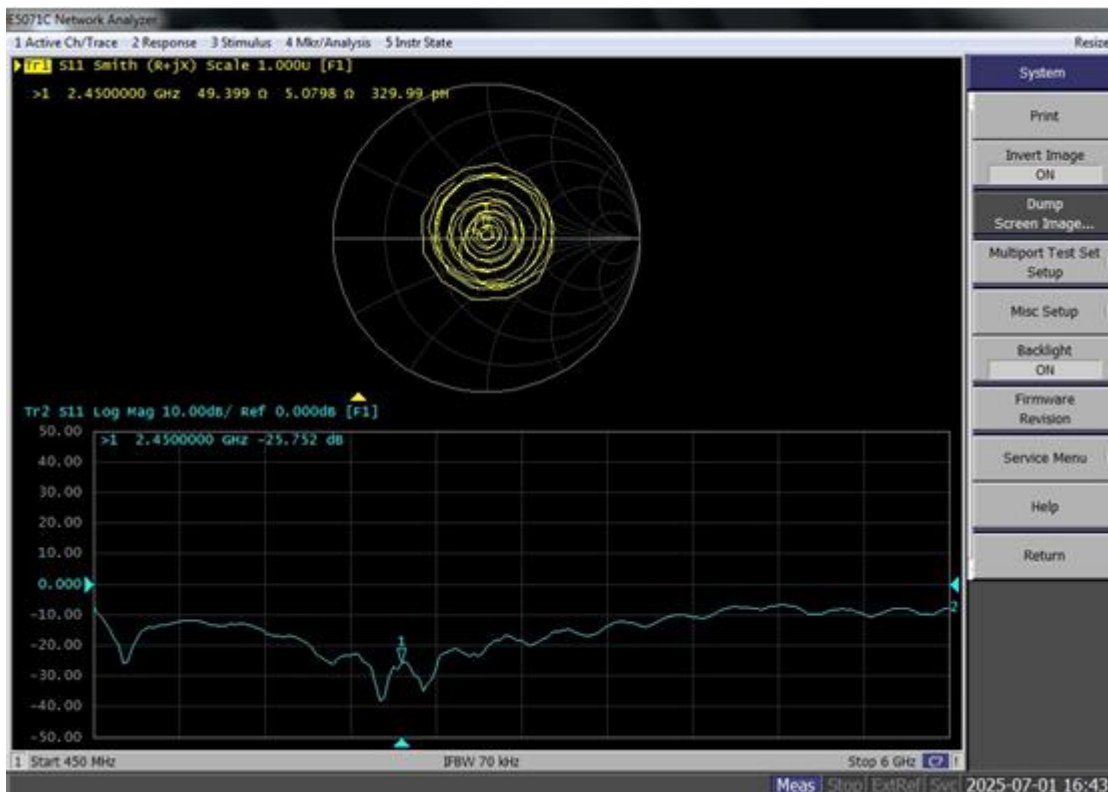
Referring to KDB 865664 D01, if dipoles are verified in return loss  $< -20\text{dB}$ , (within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

| Head 2450 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2023.07.04          | -26.03           | -         | 46.3      | -          |
| 2024.07.01          | -26.42           | 1.50      | 47.25     | 0.95       |
| 2025.07.03          | -25.75           | 3.38      | 49.40     | 3.10       |

The return loss is  $< -20\text{dB}$ , within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

### <Dipole Verification Data>

Head 2450 MHz





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