

**APPENDIX D RETURN LOSS&IMPEDANCE MEASUREMENT****D750V3 - SN:1194 Extended Dipole Calibrations**

Per FCC KDB 865664 D01, calibration intervals of up to 3 years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements.

1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20 dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from calibration date.

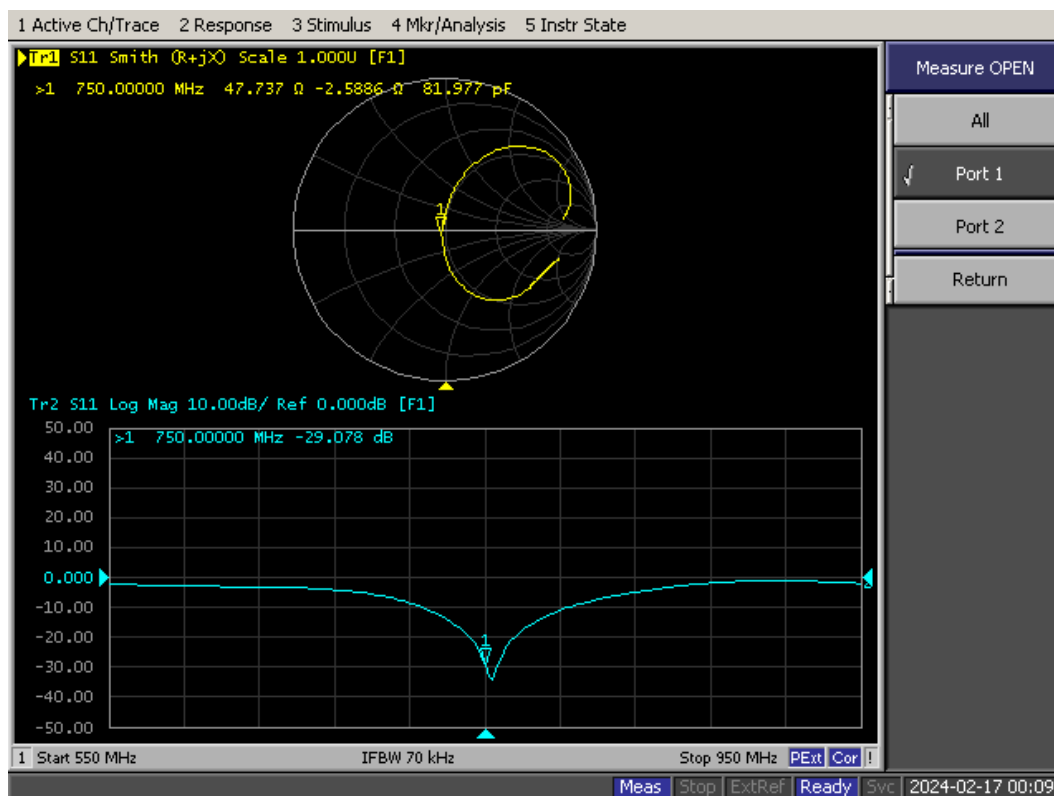
**Calibrated Equipment:**

| Verification Date | Equipment                        | Model           | S/N        | Calibration Date | Calibration Due Date |
|-------------------|----------------------------------|-----------------|------------|------------------|----------------------|
| 2024/02/17        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 220406-1   | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/01/12       | 2025/01/11           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |
| 2025/02/16        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 2200808-2  | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/10/08       | 2025/10/07           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |

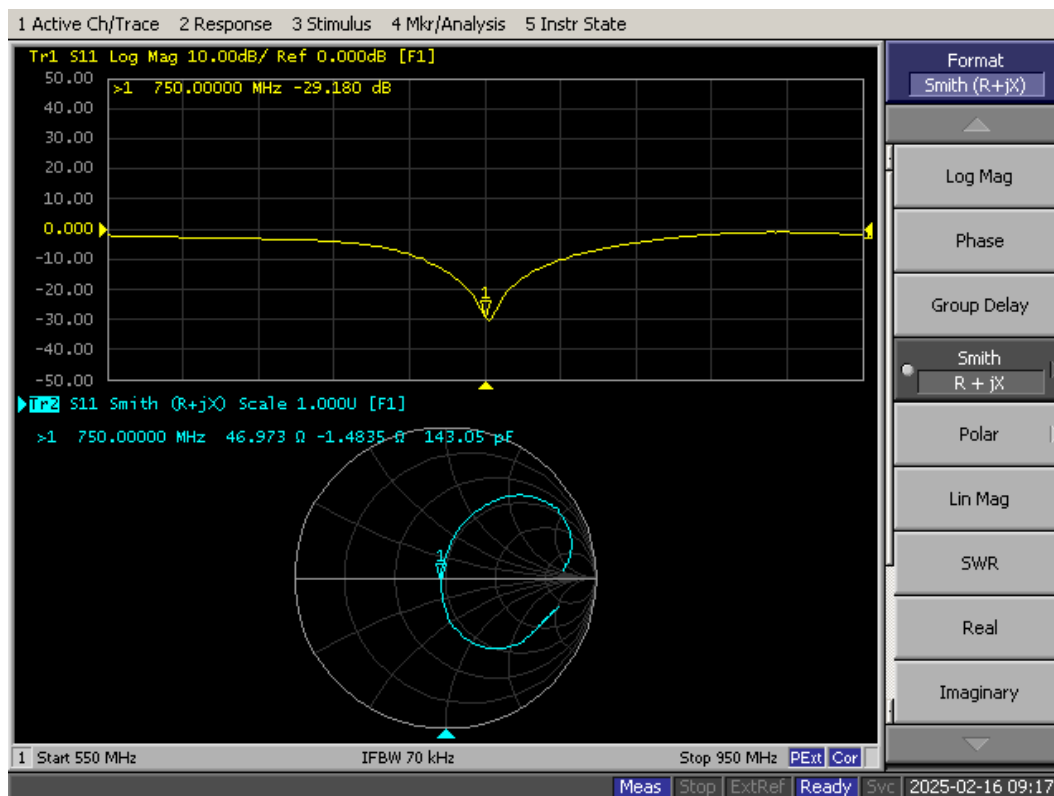
**Test Data:**

| D750V3 - SN:1194    |                  |           |                   |           |                        |           |
|---------------------|------------------|-----------|-------------------|-----------|------------------------|-----------|
| 750MHz Head         |                  |           |                   |           |                        |           |
| Date of Measurement | Return Loss (dB) | Delta (%) | Real Impedence(Ω) | Delta (Ω) | Imaginary Impedence(Ω) | Delta (Ω) |
| 2023/2/17           | -28.9            | /         | 50.8              | /         | -3.54                  | /         |
| 2024/2/17           | -29.1            | 0.69      | 47.7              | 3.1       | -2.59                  | 0.95      |
| 2025/2/16           | -29.2            | 1.04      | 47.0              | 3.8       | -1.48                  | 2.06      |

Calibrated By: Lance Li

*Lance Li*

Calibrated By: Lance Li

*Lance Li*

## D1800V2 - SN: 2d018 Extended Dipole Calibrations

Per FCC KDB 865664 D01, calibration intervals of up to 3 years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements.

1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20 dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from calibration date.

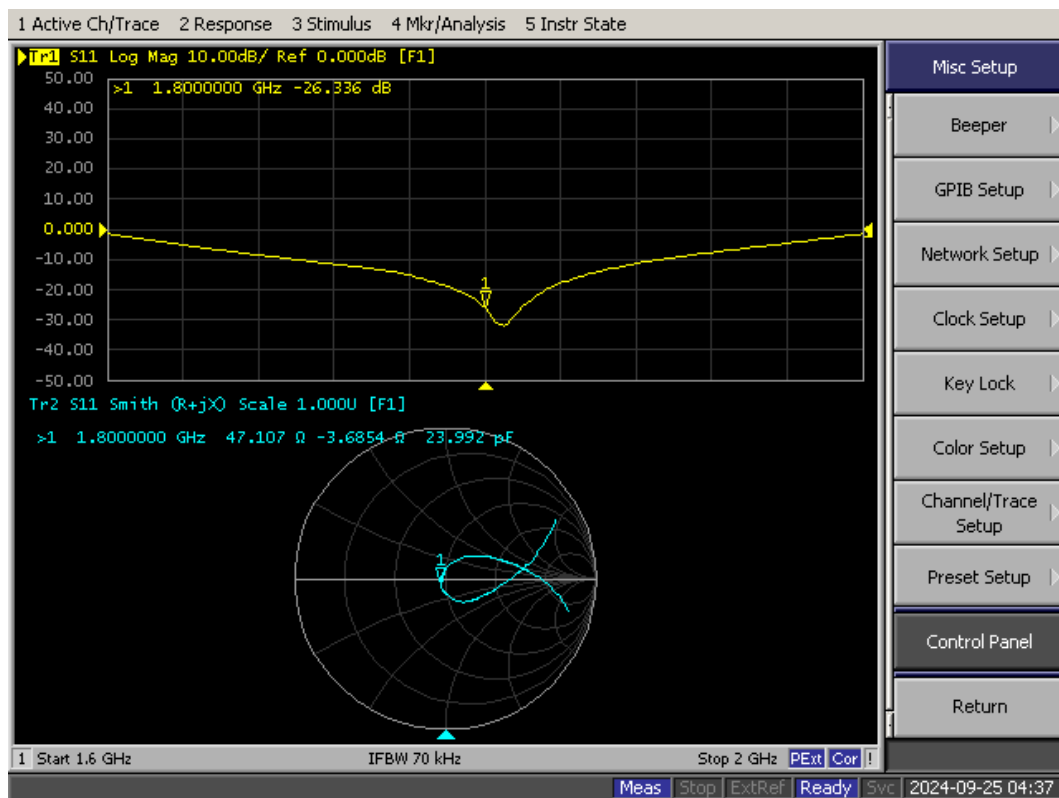
### Calibrated Equipment:

| Verification Date | Equipment                        | Model           | S/N        | Calibration Date | Calibration Due Date |
|-------------------|----------------------------------|-----------------|------------|------------------|----------------------|
| 2024/09/25        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 220406-1   | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/01/12       | 2025/01/11           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |
| 2025/09/24        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 220406-1   | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/10/08       | 2025/10/07           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |

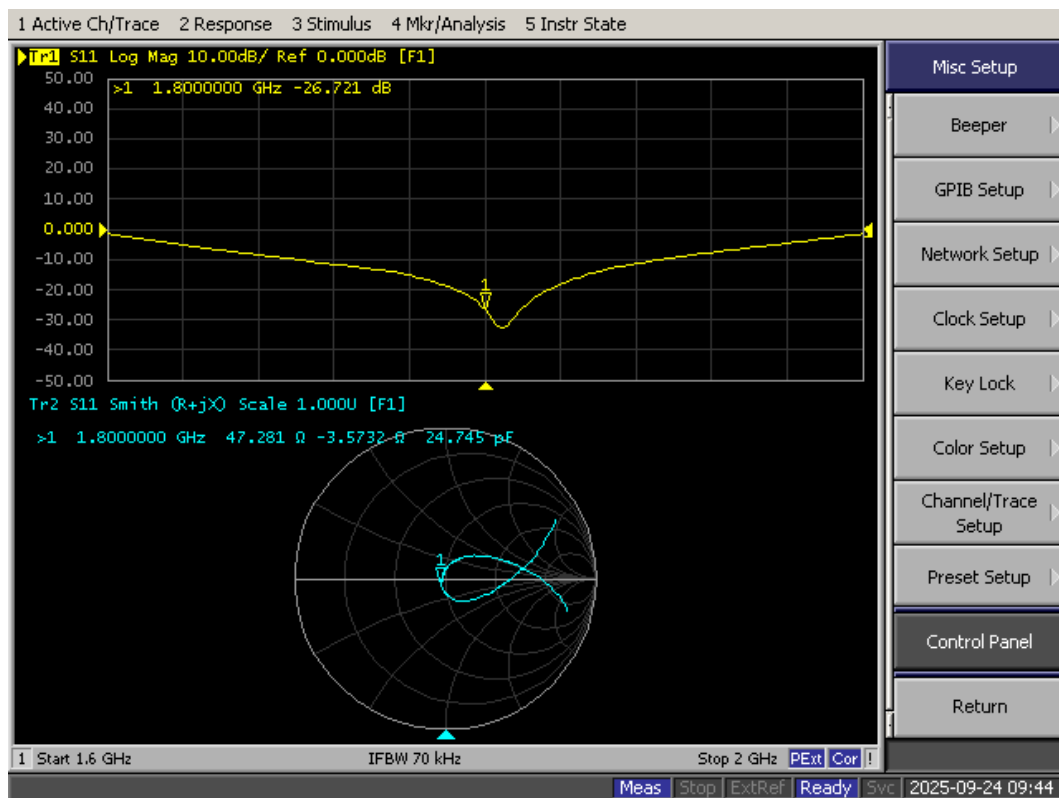
### Test Data:

| D1800V2 - SN: 2d018 |                  |           |                            |                    |                                 |                    |
|---------------------|------------------|-----------|----------------------------|--------------------|---------------------------------|--------------------|
| 1800MHz Head        |                  |           |                            |                    |                                 |                    |
| Date of Measurement | Return Loss (dB) | Delta (%) | Real Impedence( $\Omega$ ) | Delta ( $\Omega$ ) | Imaginary Impedence( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2023/9/26           | -28.9            | /         | 47.2                       | /                  | -2.01                           | /                  |
| 2024/9/25           | -26.3            | 9.0       | 47.1                       | 0.1                | -3.69                           | 1.69               |
| 2025/09/24          | -26.7            | 7.6       | 47.3                       | 0.1                | -3.57                           | 1.56               |

Calibrated By: Lance Li

*Lance Li*

Calibrated By: Lance Li

*Lance Li*

## D2450V2 - SN:751 Extended Dipole Calibrations

Per FCC KDB 865664 D01, calibration intervals of up to 3 years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements.

1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20 dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from calibration date.

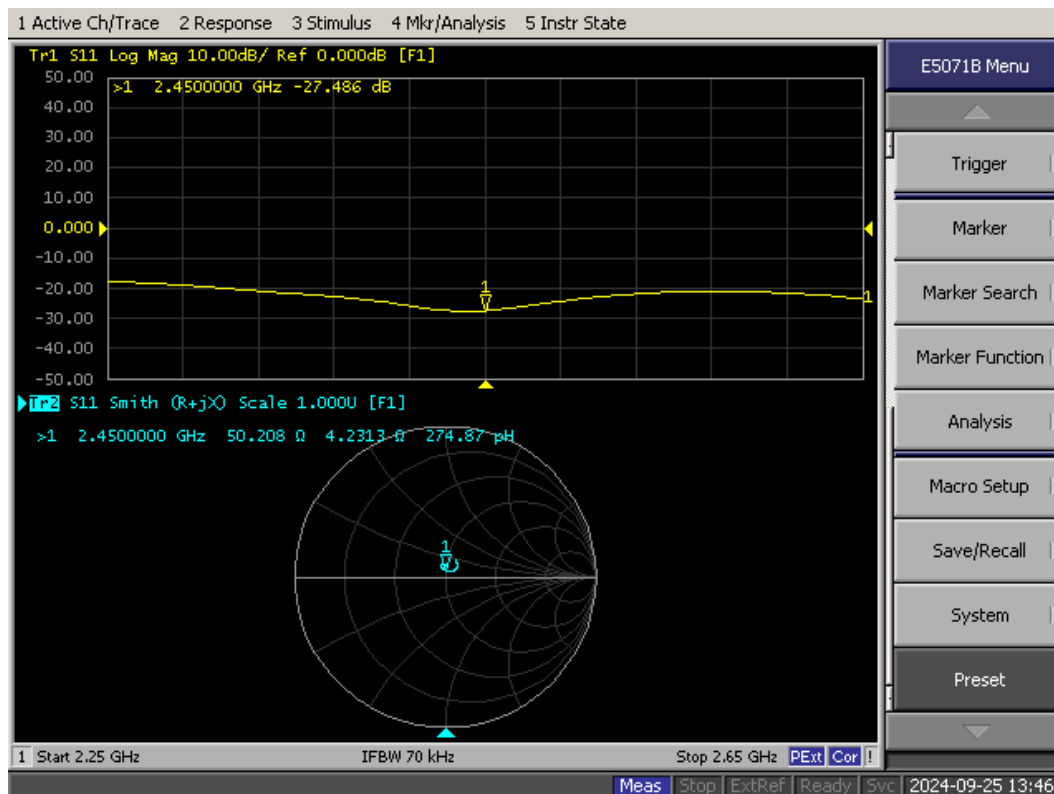
### Calibrated Equipment:

| Verification Date | Equipment                        | Model           | S/N        | Calibration Date | Calibration Due Date |
|-------------------|----------------------------------|-----------------|------------|------------------|----------------------|
| 2024/09/25        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 220406-1   | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/01/12       | 2025/01/11           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |
| 2025/09/24        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 220406-1   | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/10/08       | 2025/10/07           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |

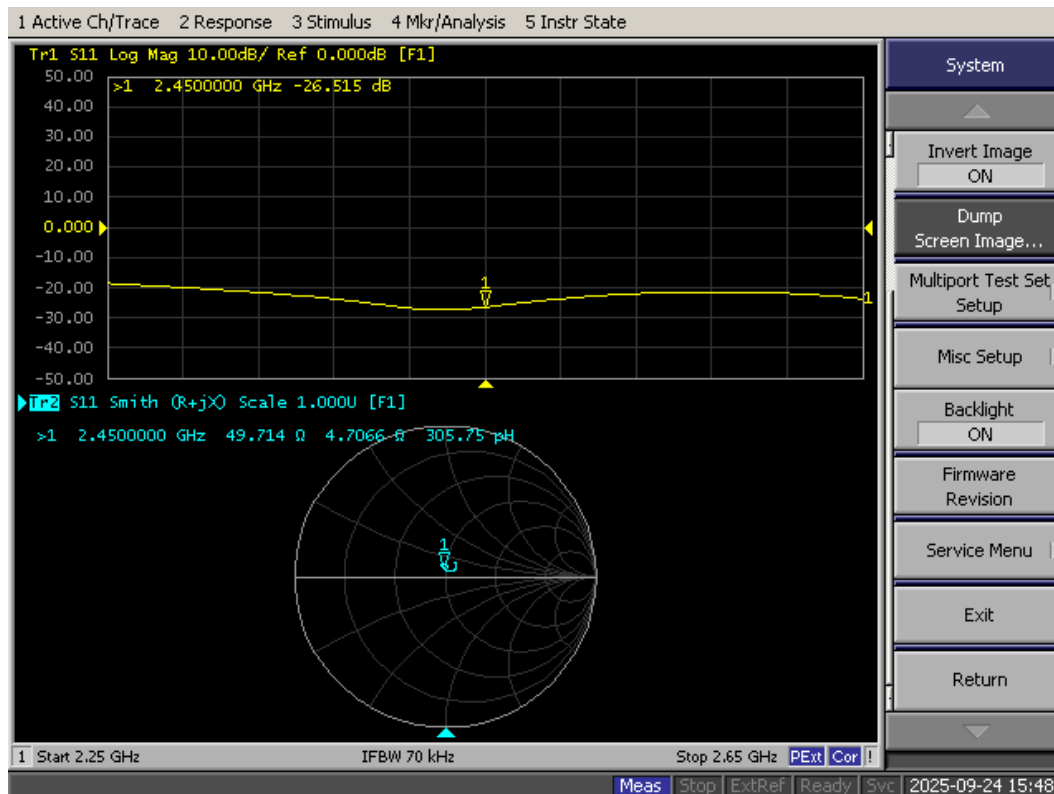
### Test Data:

| D2450V2 - SN:751    |                  |           |                            |                    |                                 |                    |
|---------------------|------------------|-----------|----------------------------|--------------------|---------------------------------|--------------------|
| 2450MHz Head        |                  |           |                            |                    |                                 |                    |
| Date of Measurement | Return Loss (dB) | Delta (%) | Real Impedence( $\Omega$ ) | Delta ( $\Omega$ ) | Imaginary Impedence( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2023/09/26          | -25.2            | /         | 53.9                       | /                  | 4.18                            | /                  |
| 2024/09/25          | -27.5            | 9.1       | 50.2                       | 3.7                | 4.23                            | 0.05               |
| 2025/09/24          | -26.5            | 5.2       | 49.7                       | 4.2                | 4.7                             | 0.52               |

Calibrated By: Lance Li

*Lance Li*

Calibrated By: Lance Li

*Lance Li*

**D2600V2 - SN:1073 Extended Dipole Calibrations**

Per FCC KDB 865664 D01, calibration intervals of up to 3 years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements.

1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20 dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from calibration date.

**Calibrated Equipment:**

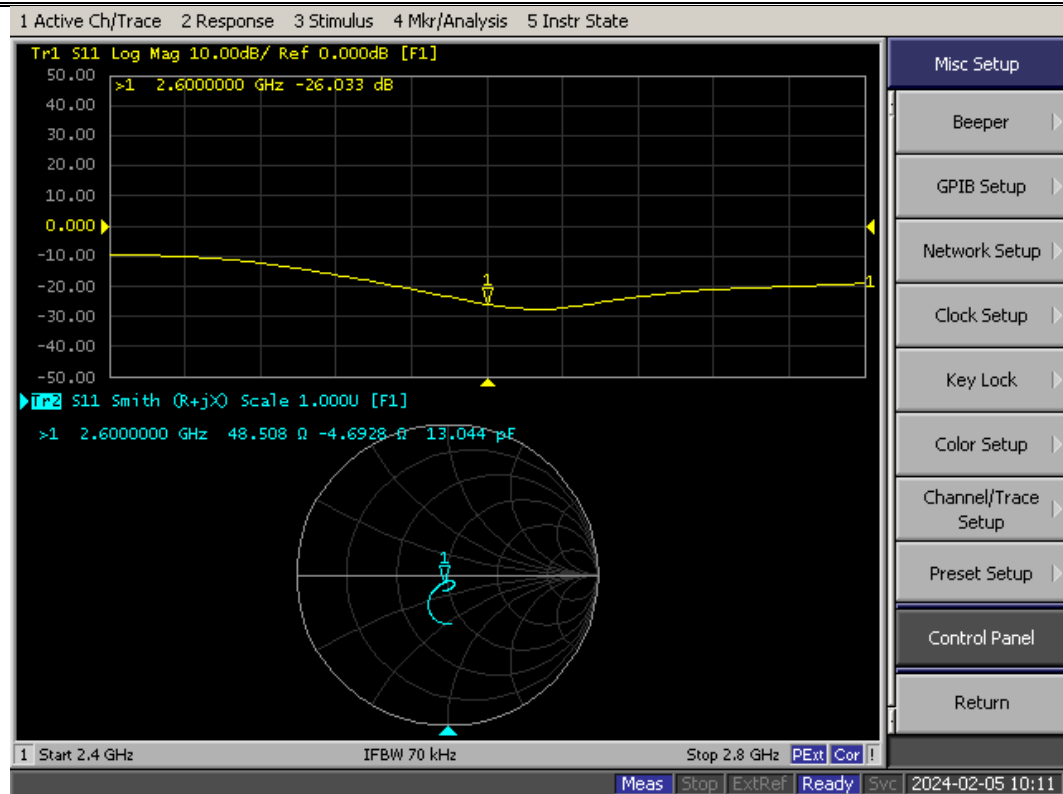
| Verification Date | Equipment                        | Model           | S/N        | Calibration Date | Calibration Due Date |
|-------------------|----------------------------------|-----------------|------------|------------------|----------------------|
| 2024/02/05        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 220406-1   | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/01/12       | 2025/01/11           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |
| 2025/01/27        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 2200808-2  | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/10/08       | 2025/10/07           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |

**Test Data:**

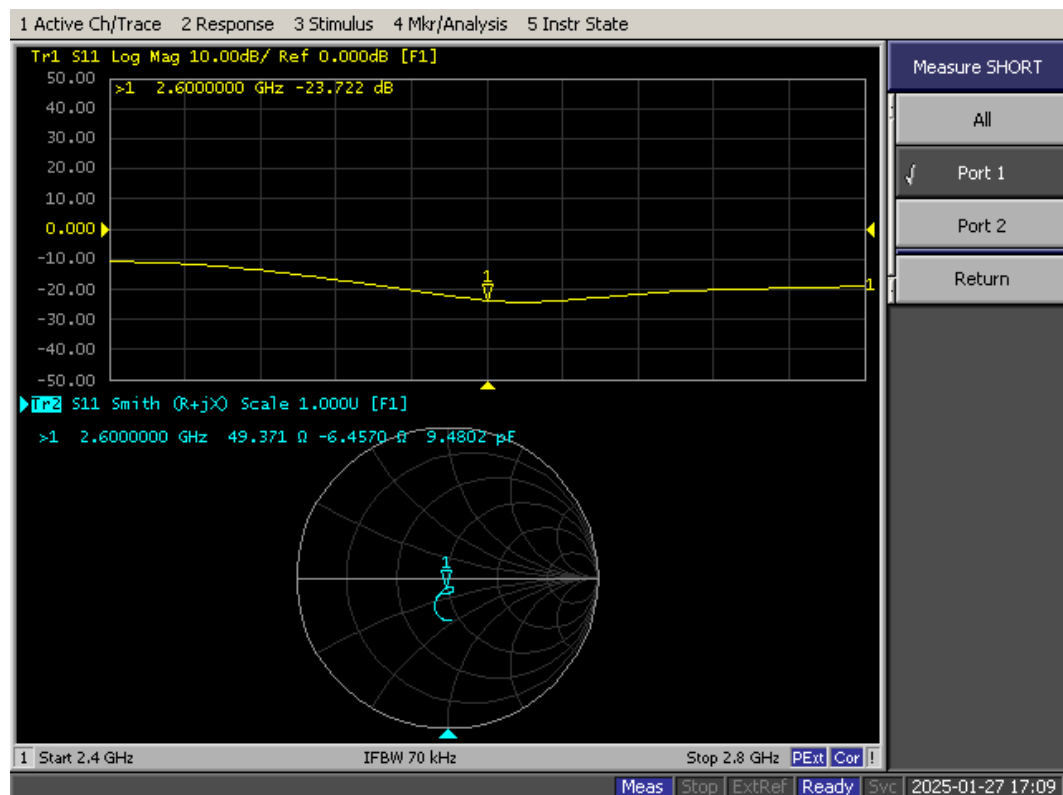
| D2600V2 - SN:1073   |                  |           |                            |                    |                                 |                    |
|---------------------|------------------|-----------|----------------------------|--------------------|---------------------------------|--------------------|
| 2600MHz Head        |                  |           |                            |                    |                                 |                    |
| Date of Measurement | Return Loss (dB) | Delta (%) | Real Impedence( $\Omega$ ) | Delta ( $\Omega$ ) | Imaginary Impedence( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2023/02/17          | -23.7            | /         | 48.6                       | /                  | -6.32                           | /                  |
| 2024/02/05          | -26.0            | 9.7       | 48.5                       | 0.10               | -4.69                           | 1.63               |
| 2025/01/27          | -23.7            | 0         | 49.4                       | 0.80               | -6.46                           | 0.14               |

Calibrated By: Lance Li

*Lance Li*



Calibrated By: Lance Li

*Lance Li*

## D5GHzV2 - SN:1301 Extended Dipole Calibrations

Per FCC KDB 865664 D01, calibration intervals of up to 3 years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements.

1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20 dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from calibration date.

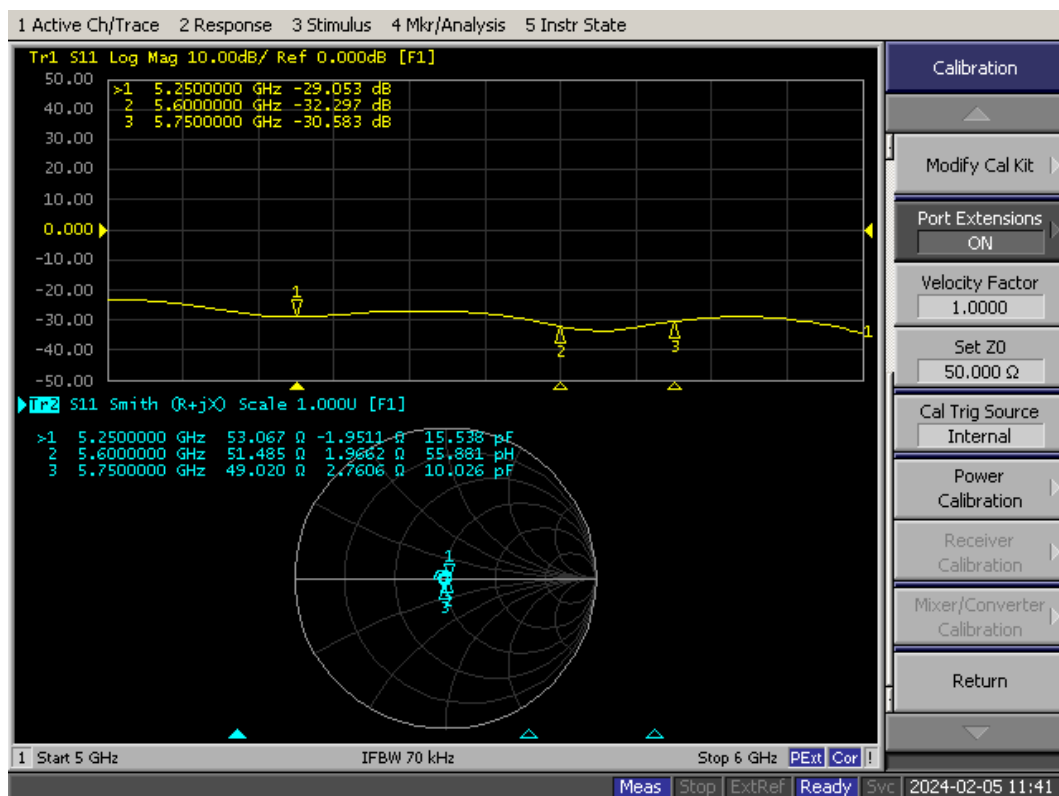
### Calibrated Equipment:

| Verification Date | Equipment                        | Model           | S/N        | Calibration Date | Calibration Due Date |
|-------------------|----------------------------------|-----------------|------------|------------------|----------------------|
| 2024/02/05        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 220406-1   | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/01/12       | 2025/01/11           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |
| 2025/01/27        | Simulated Tissue Liquid Head     | HBBL600-10000V6 | 2200808-2  | Each Time        |                      |
|                   | SAM Twin Phantom                 | SAM-Twin V5.0   | 1744       | NCR              | NCR                  |
|                   | Network Analyzer                 | E5071B          | MY42403851 | 2024/10/08       | 2025/10/07           |
|                   | Network Analyzer Calibration Kit | 85033E          | MY53402696 | NCR              | NCR                  |

**Test Data:**

| D5GHzV2-SN:1301     |                  |           |                            |                    |                                 |                    |
|---------------------|------------------|-----------|----------------------------|--------------------|---------------------------------|--------------------|
| 5250MHz Head        |                  |           |                            |                    |                                 |                    |
| Date of Measurement | Return Loss (dB) | Delta (%) | Real Impedence( $\Omega$ ) | Delta ( $\Omega$ ) | Imaginary Impedence( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2023/02/16          | -32.6            | /         | 48.1                       | /                  | -1.23                           | /                  |
| 2024/02/05          | -29.1            | 10.7      | 53.1                       | 5.00               | -1.95                           | 0.72               |
| 2025/01/27          | -32.3            | 0.92      | 52.3                       | 4.2                | -0.90                           | 0.33               |
| 5600MHz Head        |                  |           |                            |                    |                                 |                    |
| Date of Measurement | Return Loss (dB) | Delta (%) | Real Impedence( $\Omega$ ) | Delta ( $\Omega$ ) | Imaginary Impedence( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2023/02/16          | -29.5            | /         | 52.4                       | /                  | 2.45                            | /                  |
| 2024/02/05          | -32.3            | 9.5       | 51.5                       | 0.9                | 1.97                            | 0.48               |
| 2025/01/27          | -32.8            | 11.2      | 50.4                       | 2                  | 2.26                            | 0.19               |
| 5750MHz Head        |                  |           |                            |                    |                                 |                    |
| Date of Measurement | Return Loss (dB) | Delta (%) | Real Impedence( $\Omega$ ) | Delta ( $\Omega$ ) | Imaginary Impedence( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2023/02/16          | -30.1            | /         | 51.4                       | /                  | 2.84                            | /                  |
| 2024/02/05          | -30.6            | 1.7       | 49.0                       | 2.40               | 2.76                            | 0.08               |
| 2025/01/27          | -32.6            | 8.3       | 50.2                       | 1.20               | 2.33                            | 0.51               |

Calibrated By: Lance Li

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Calibrated By: Lance Li

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