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|       |     |                                                     |               |       |         |
|-------|-----|-----------------------------------------------------|---------------|-------|---------|
| 10958 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61  | ± 9.6 % |
| 10959 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33  | ± 9.6 % |
| 10960 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD | 9.32  | ± 9.6 % |
| 10961 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.36  | ± 9.6 % |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.40  | ± 9.6 % |
| 10963 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.55  | ± 9.6 % |
| 10964 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD | 9.29  | ± 9.6 % |
| 10965 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.37  | ± 9.6 % |
| 10966 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.55  | ± 9.6 % |
| 10967 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.42  | ± 9.6 % |
| 10968 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49  | ± 9.6 % |
| 10972 | AAB | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)         | 5G NR FR1 TDD | 11.59 | ± 9.6 % |
| 10973 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 9.06  | ± 9.6 % |
| 10974 | AAB | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)  | 5G NR FR1 TDD | 10.28 | ± 9.6 % |
| 10978 | AAA | ULLA BDR                                            | ULLA          | 1.16  | ± 9.6 % |
| 10979 | AAA | ULLA HDR4                                           | ULLA          | 8.58  | ± 9.6 % |
| 10980 | AAA | ULLA HDR8                                           | ULLA          | 10.32 | ± 9.6 % |
| 10981 | AAA | ULLA HDRp4                                          | ULLA          | 3.19  | ± 9.6 % |
| 10982 | AAA | ULLA HDRp8                                          | ULLA          | 3.43  | ± 9.6 % |
| 10983 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.31  | ± 9.6 % |
| 10984 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.42  | ± 9.6 % |
| 10985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.54  | ± 9.6 % |
| 10986 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.50  | ± 9.6 % |
| 10987 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.53  | ± 9.6 % |
| 10988 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.38  | ± 9.6 % |
| 10989 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.33  | ± 9.6 % |
| 10990 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.52  | ± 9.6 % |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 10.24 | ± 9.6 % |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 10.73 | ± 9.6 % |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.70  | ± 9.6 % |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.55  | ± 9.6 % |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.46  | ± 9.6 % |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.51  | ± 9.6 % |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.76  | ± 9.6 % |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.95  | ± 9.6 % |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.96  | ± 9.6 % |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.68  | ± 9.6 % |
| 11013 | AAA | IEEE 802.11be (320MHz, MCS1, 99pc duty cycle)       | WLAN          | 8.47  | ± 9.6 % |
| 11014 | AAA | IEEE 802.11be (320MHz, MCS2, 99pc duty cycle)       | WLAN          | 8.45  | ± 9.6 % |
| 11015 | AAA | IEEE 802.11be (320MHz, MCS3, 99pc duty cycle)       | WLAN          | 8.44  | ± 9.6 % |
| 11016 | AAA | IEEE 802.11be (320MHz, MCS4, 99pc duty cycle)       | WLAN          | 8.44  | ± 9.6 % |
| 11017 | AAA | IEEE 802.11be (320MHz, MCS5, 99pc duty cycle)       | WLAN          | 8.41  | ± 9.6 % |
| 11018 | AAA | IEEE 802.11be (320MHz, MCS6, 99pc duty cycle)       | WLAN          | 8.40  | ± 9.6 % |
| 11019 | AAA | IEEE 802.11be (320MHz, MCS7, 99pc duty cycle)       | WLAN          | 8.29  | ± 9.6 % |
| 11020 | AAA | IEEE 802.11be (320MHz, MCS8, 99pc duty cycle)       | WLAN          | 8.27  | ± 9.6 % |
| 11021 | AAA | IEEE 802.11be (320MHz, MCS9, 99pc duty cycle)       | WLAN          | 8.46  | ± 9.6 % |
| 11022 | AAA | IEEE 802.11be (320MHz, MCS10, 99pc duty cycle)      | WLAN          | 8.36  | ± 9.6 % |
| 11023 | AAA | IEEE 802.11be (320MHz, MCS11, 99pc duty cycle)      | WLAN          | 8.09  | ± 9.6 % |
| 11024 | AAA | IEEE 802.11be (320MHz, MCS12, 99pc duty cycle)      | WLAN          | 8.42  | ± 9.6 % |
| 11025 | AAA | IEEE 802.11be (320MHz, MCS13, 99pc duty cycle)      | WLAN          | 8.37  | ± 9.6 % |
| 11026 | AAA | IEEE 802.11be (320MHz, MCS0, 99pc duty cycle)       | WLAN          | 8.39  | ± 9.6 % |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



## D750V3, Serial No. 1126 Extended Dipole Calibrations

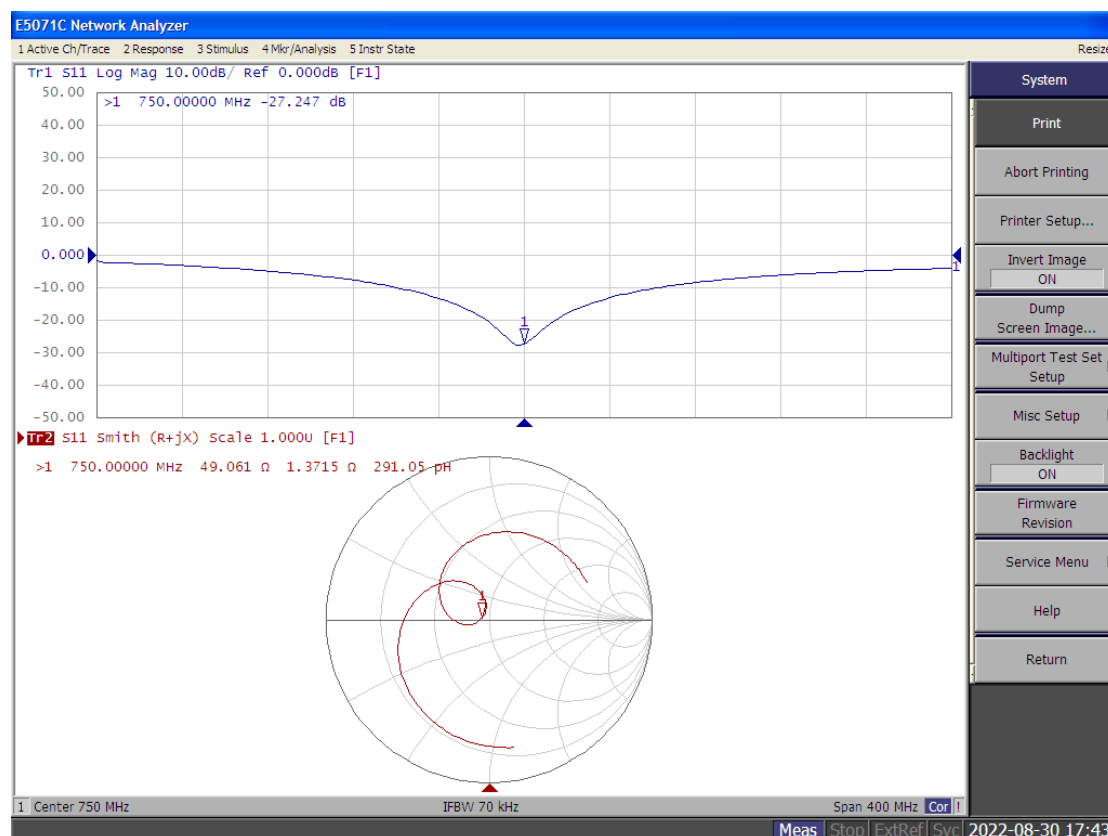
Referring to KDB 865664 D01, if dipoles are verified in return loss ( $< -20\text{dB}$ , within 20% of prior calibration), and in impedance (within  $5\ \Omega$  of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

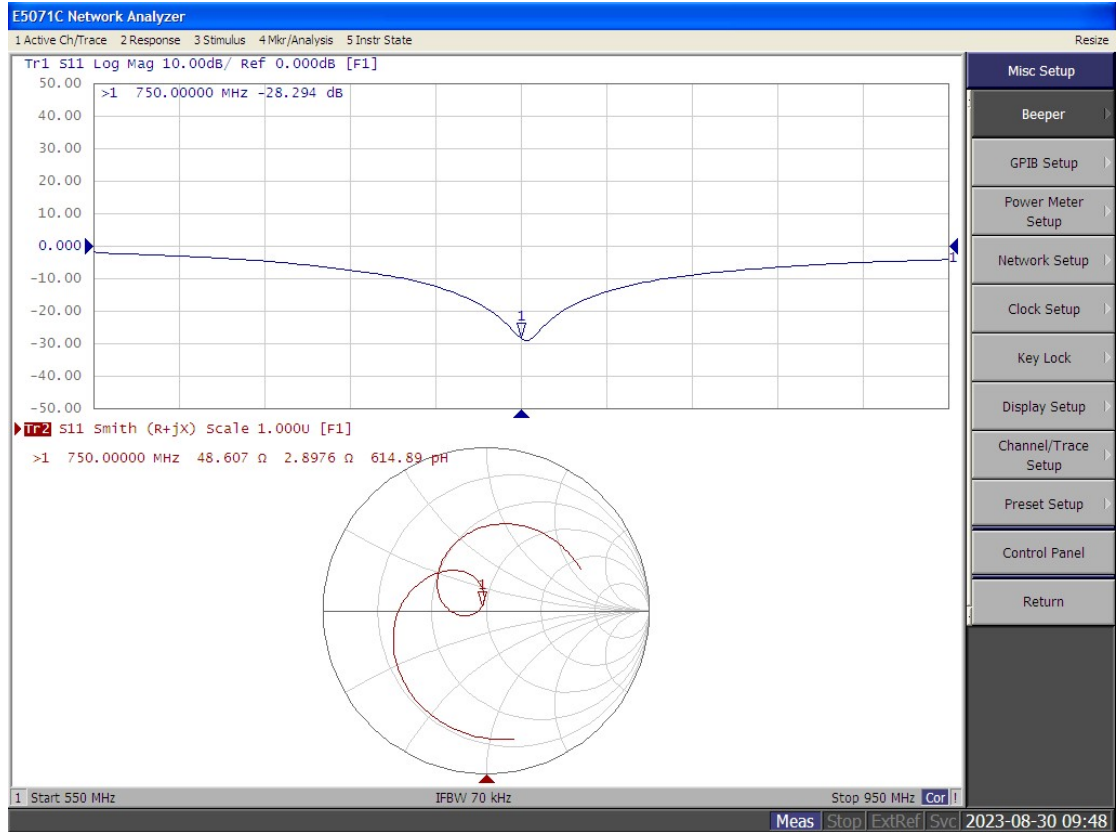
| D750V3, Serial No. 1126 |                  |           |                        |                    |
|-------------------------|------------------|-----------|------------------------|--------------------|
|                         | 750 MHz          |           |                        |                    |
| Date of Measurement     | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.8.31               | -30.652          |           | 52.724                 |                    |
| 2022.8.30               | -27.247          | 11        | 49.061                 | -3.663             |
| 2023.8.30               | -28.294          | 8         | 48.607                 | -4.117             |

### <Justification of the extended calibration>

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

### Dipole Verification Data> D750V3, serial no. 1126





## D835V3, Serial No. 4d178 Extended Dipole Calibrations

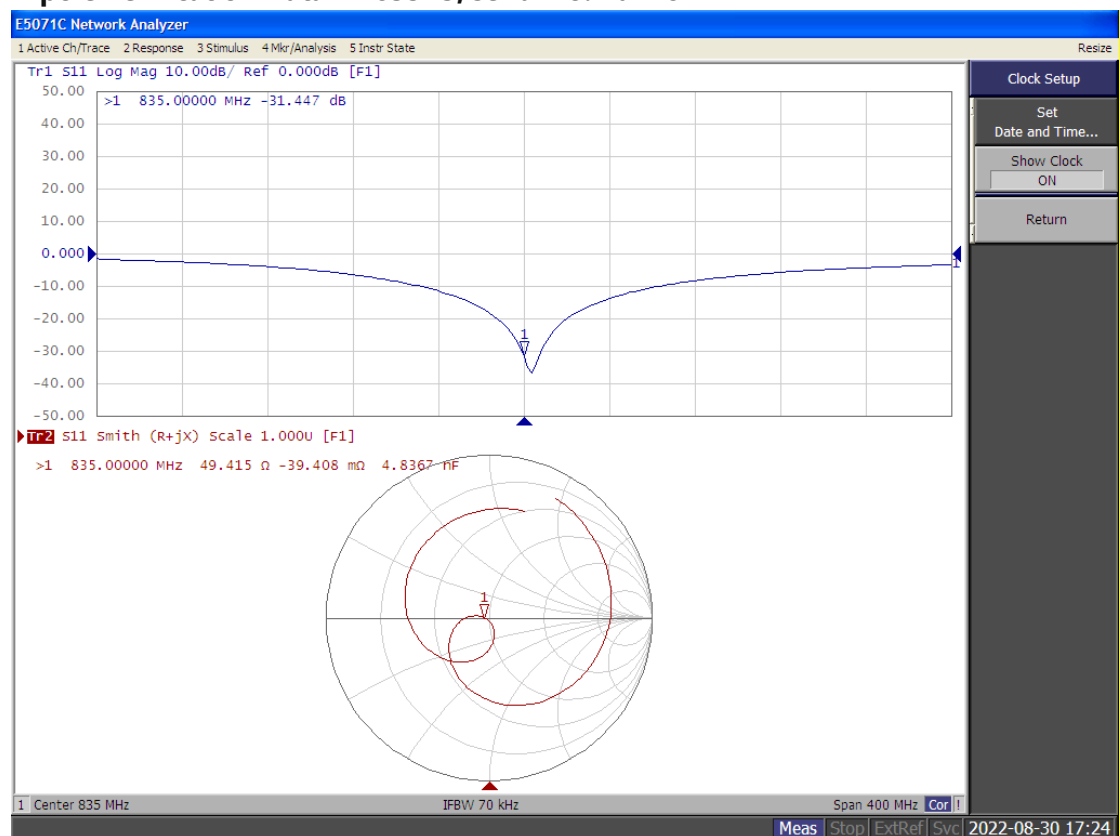
Referring to KDB 865664 D01, if dipoles are verified in return loss ( $< -20$  dB, within 20% of prior calibration), and in impedance (within  $5\ \Omega$  of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

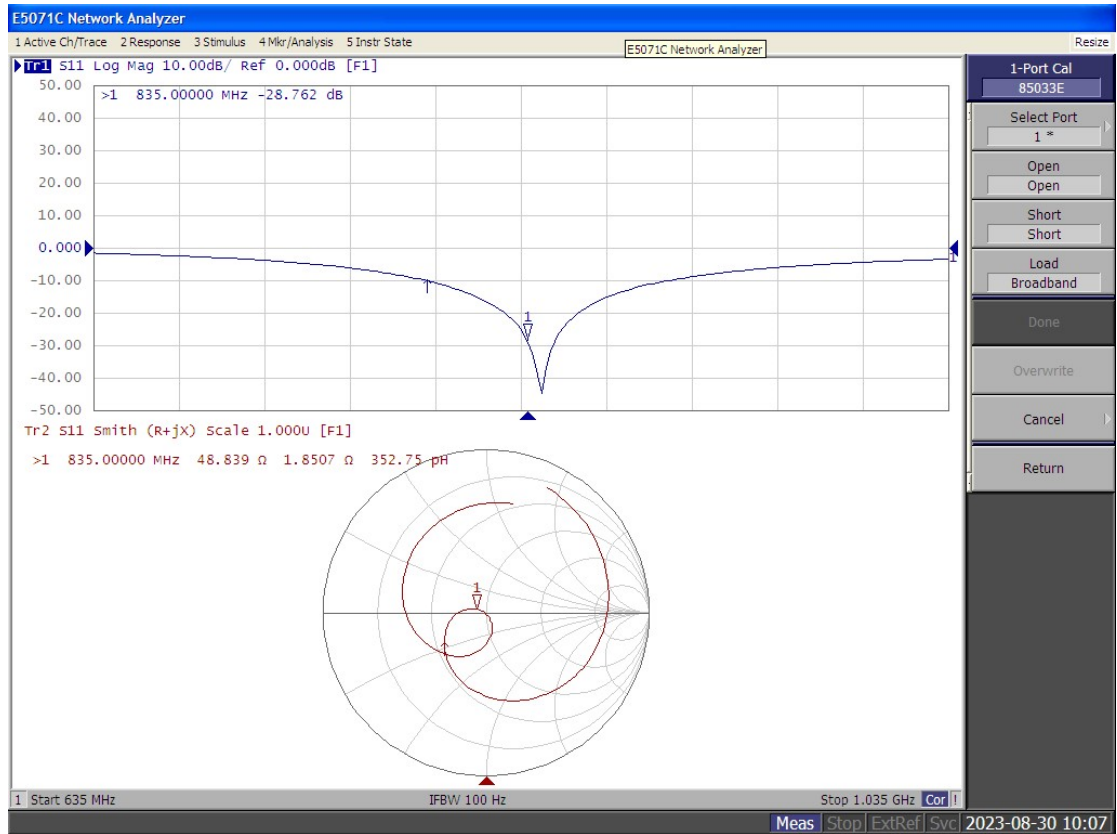
| D835V3, Serial No. 4d178 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 835 MHz          |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.8.31                | -30.270          |           | 52.511                 |                    |
| 2022.8.30                | -31.447          | 4         | 49.415                 | -3.096             |
| 2023.8.30                | -28.762          | 5         | 48.839                 | -3.672             |

### <Justification of the extended calibration>

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

### Dipole Verification Data> D835V3, serial no. 4d178





## D1750V2, Serial No. 1128 Extended Dipole Calibrations

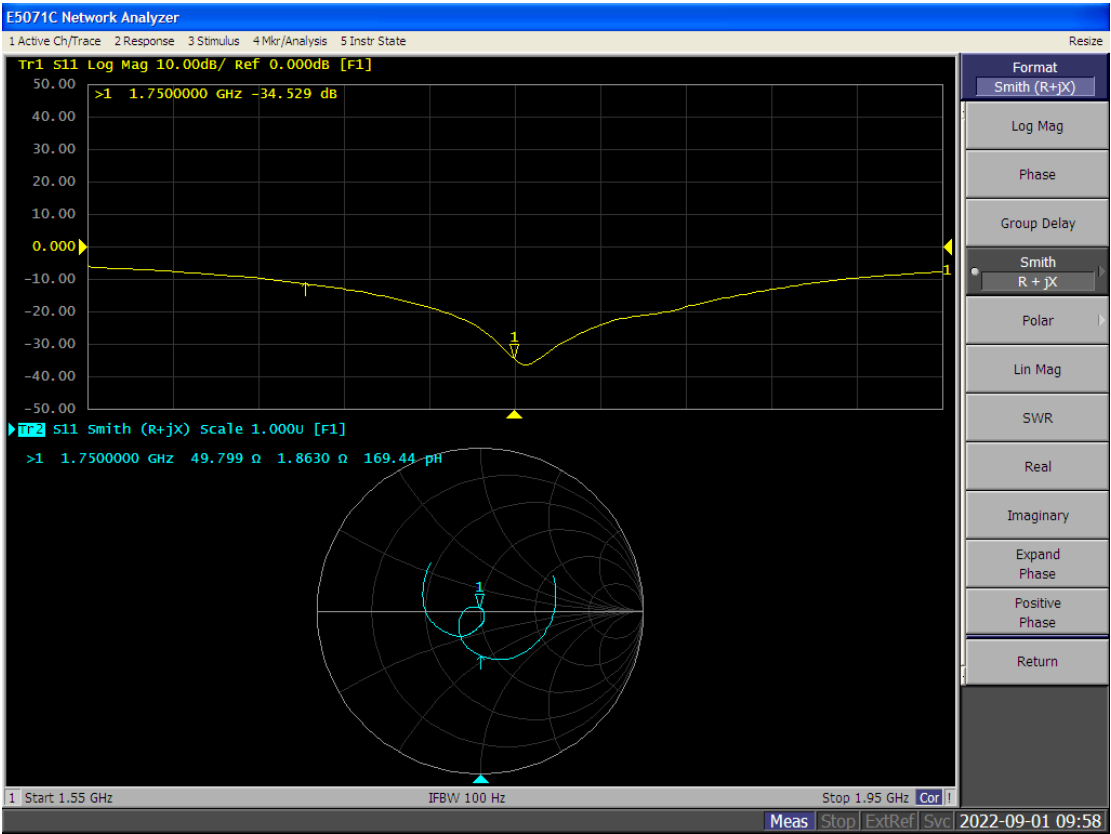
Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5  $\Omega$  of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

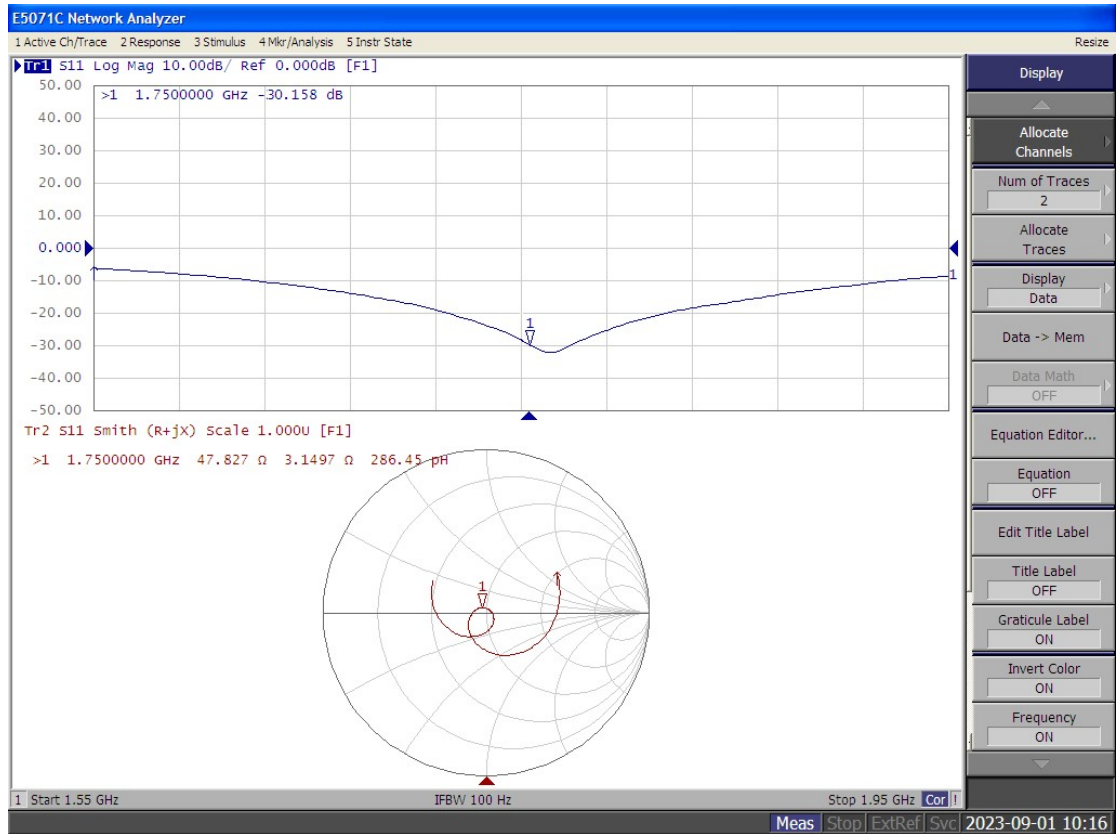
| D1750V2, Serial No. 1128 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 1750 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.9.2                 | -34.826          |           | 49.818                 |                    |
| 2022.9.1                 | -34.529-         | 1         | 49.799                 | 0.019              |
| 2023.9.1                 | -30.158          | 13        | 47.827                 | -1.991             |

### <Justification of the extended calibration>

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

### Dipole Verification Data> D1750V2, serial no. 1128





## D1900V2, Serial No. 5d192 Extended Dipole Calibrations

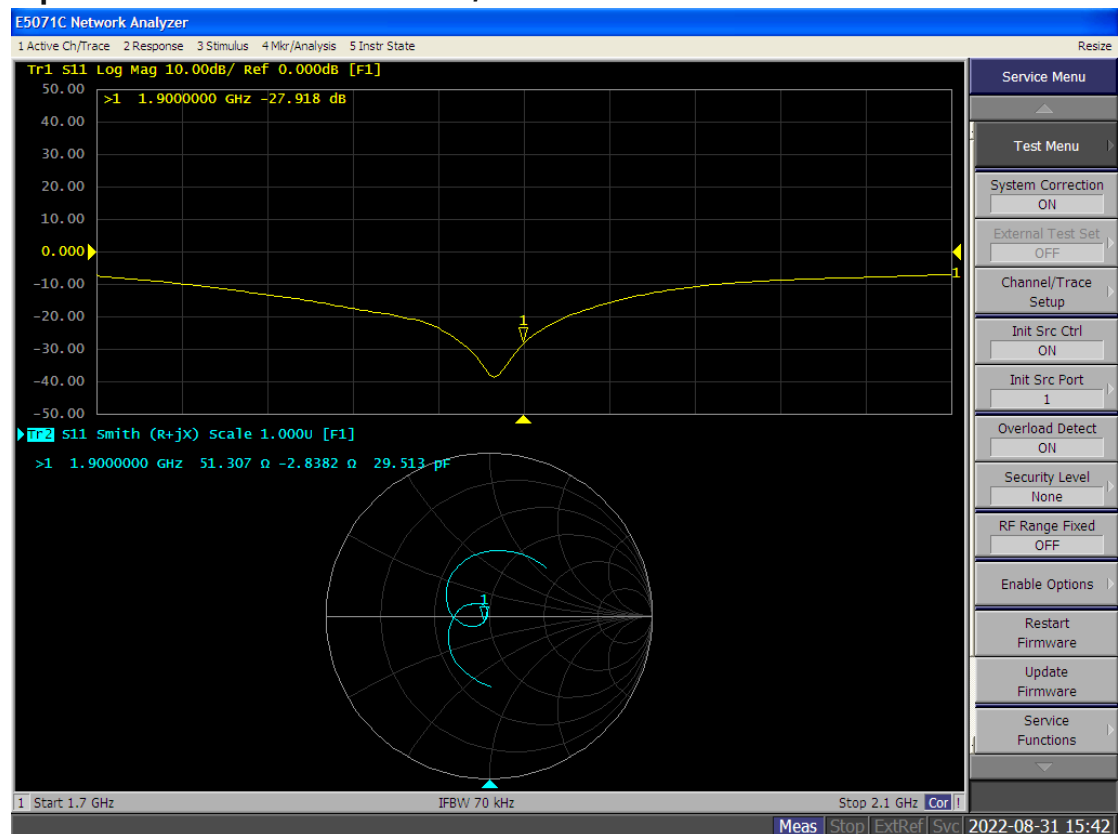
Referring to KDB 865664 D01, if dipoles are verified in return loss ( $< -20\text{dB}$ , within 20% of prior calibration), and in impedance (within  $5\ \Omega$  of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

| D1900V2, Serial No.5d192 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 1900 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.9.1                 | -26.104          |           | 54.293                 |                    |
| 2022.8.31                | -27.918          | 7         | 51.307                 | -2.986             |
| 2023.8.31                | -28.356          | 8         | 49.568                 | -4.725             |

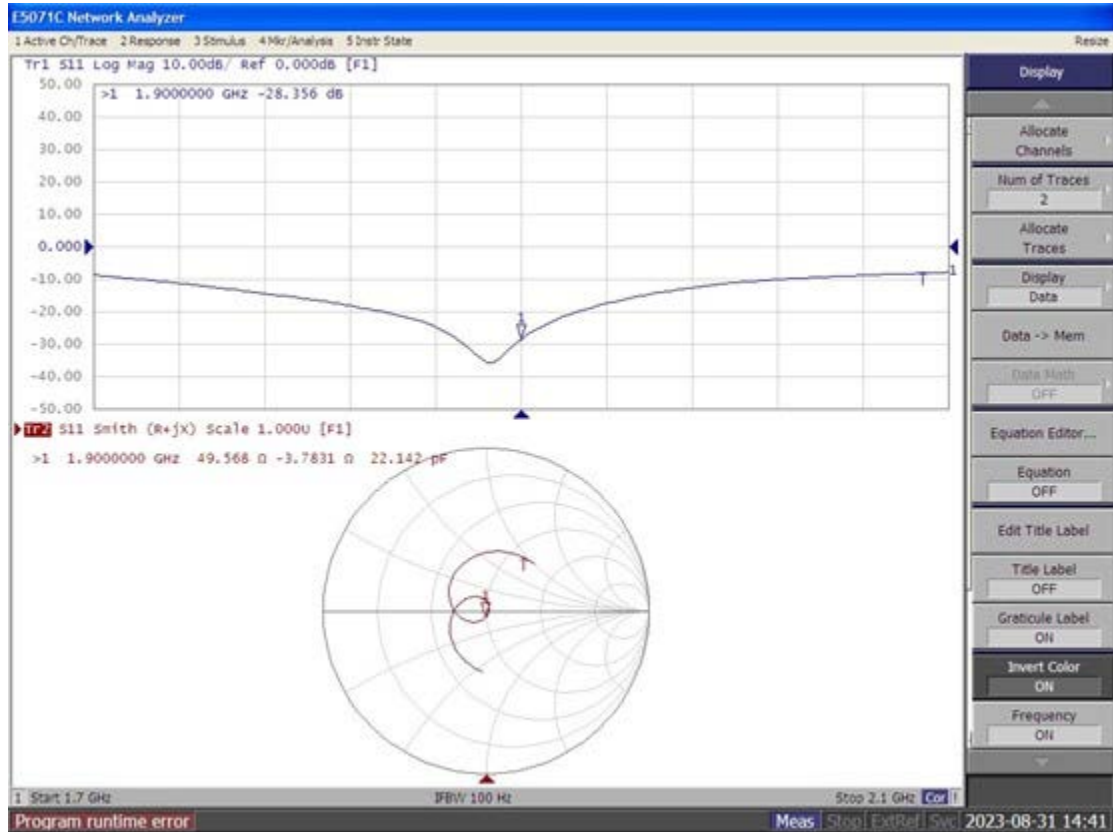
### <Justification of the extended calibration>

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

### Dipole Verification Data> D1900V2, serial no. 5d192







## D2450V2, Serial No. 943 Extended Dipole Calibrations

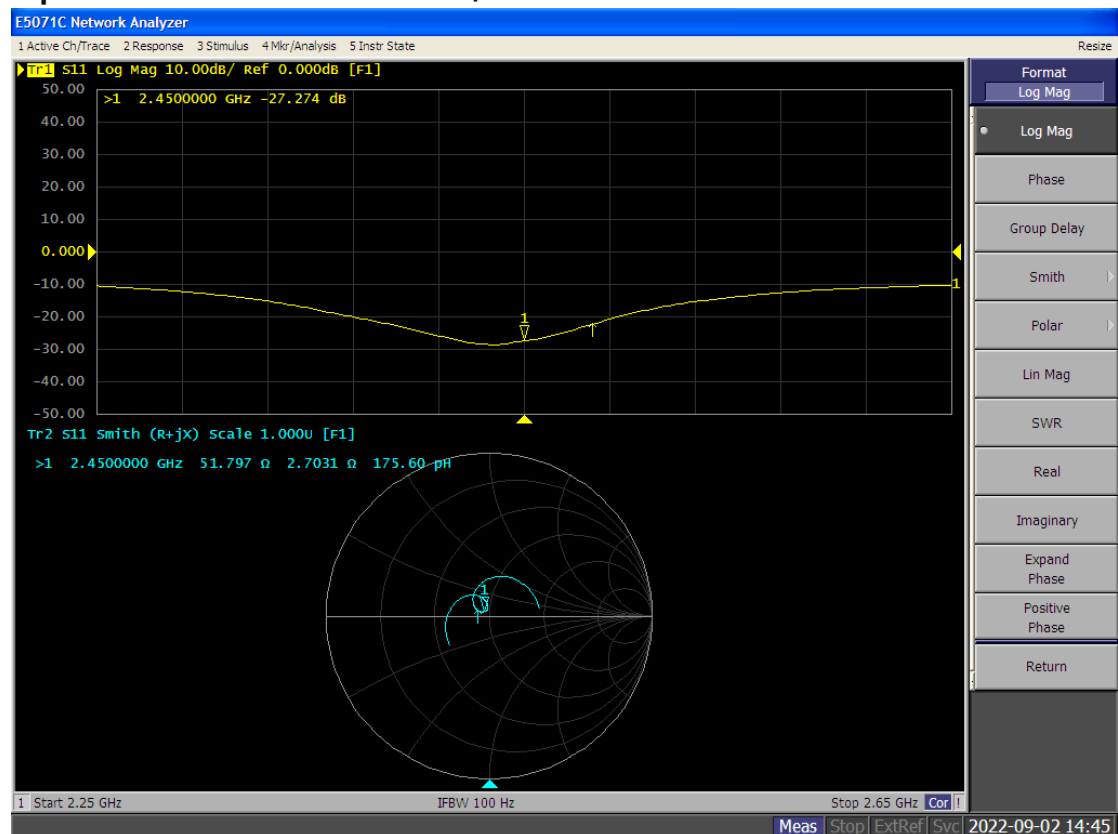
Referring to KDB 865664 D01, if dipoles are verified in return loss ( $< -20\text{dB}$ , within 20% of prior calibration), and in impedance (within  $5\ \Omega$  of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

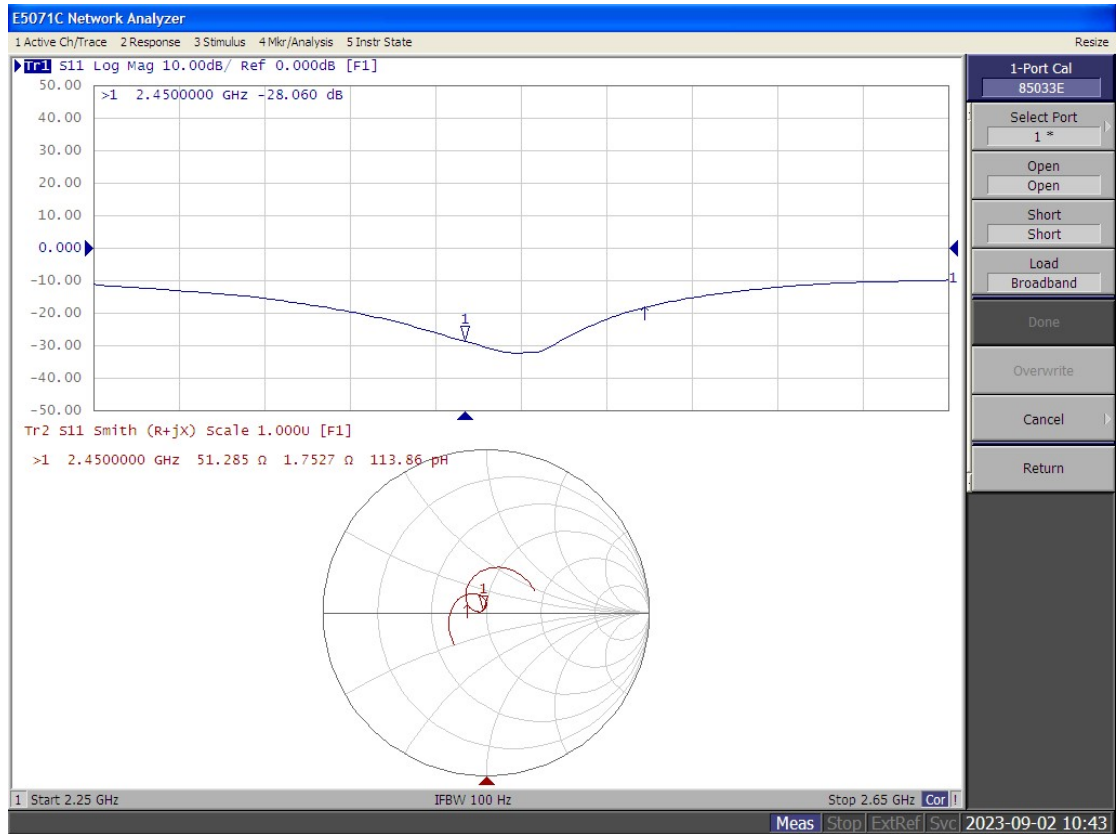
| D2450V2, Serial No. 943 |                  |           |                        |                    |
|-------------------------|------------------|-----------|------------------------|--------------------|
|                         | 2450 MHz         |           |                        |                    |
| Date of Measurement     | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.9.3                | -24.010          |           | 55.883                 |                    |
| 2022.9.2                | -27.274          | 14        | 51.797                 | -4.086             |
| 2023.9.2                | -28.060          | 16        | 51.285                 | -4.598             |

### <Justification of the extended calibration>

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

### Dipole Verification Data> D2450V2, serial no. 943





## D2600V2, Serial No. 1093 Extended Dipole Calibrations

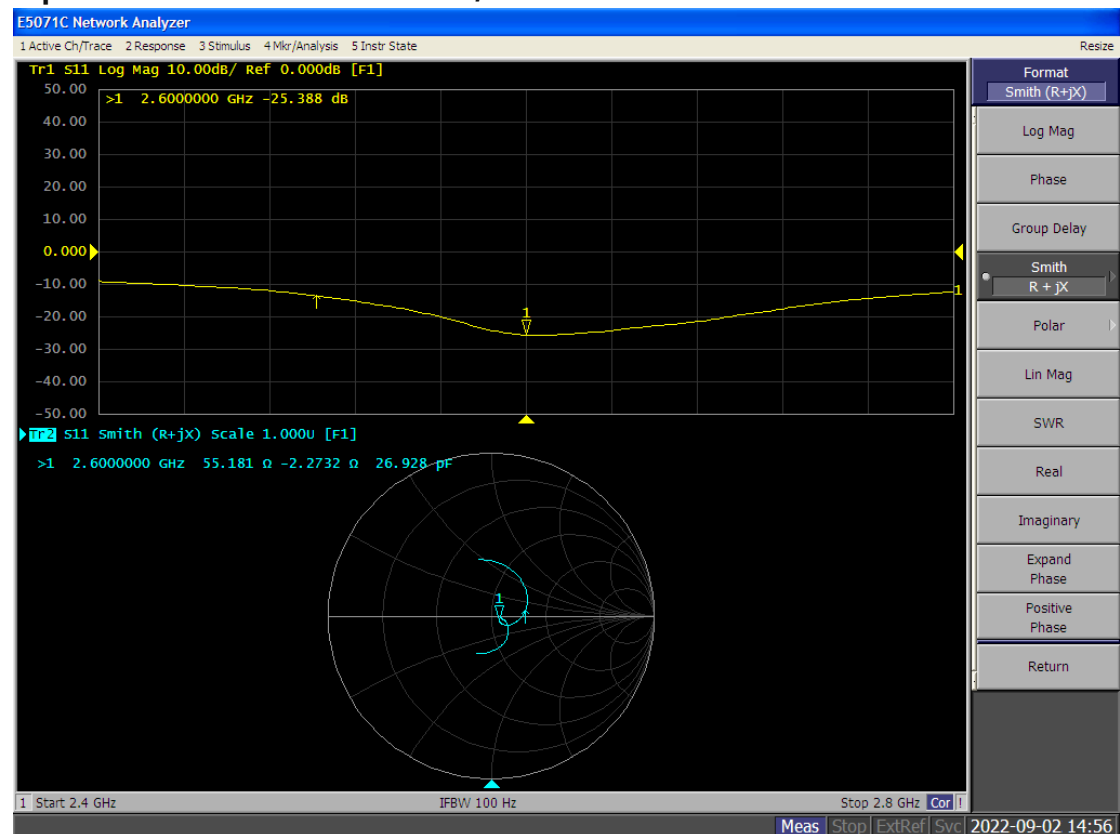
Referring to KDB 865664 D01, if dipoles are verified in return loss ( $< -20\text{dB}$ , within 20% of prior calibration), and in impedance (within  $5\ \Omega$  of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

| D2600V2, Serial No. 1093 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 2600 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.9.3                 | -21.728          |           | 53.712                 |                    |
| 2022.9.2                 | -25.388          | 17        | 55.181                 | 1.469              |
| 2023.9.2                 | -22.097          | 2         | 54.607                 | 0.895              |

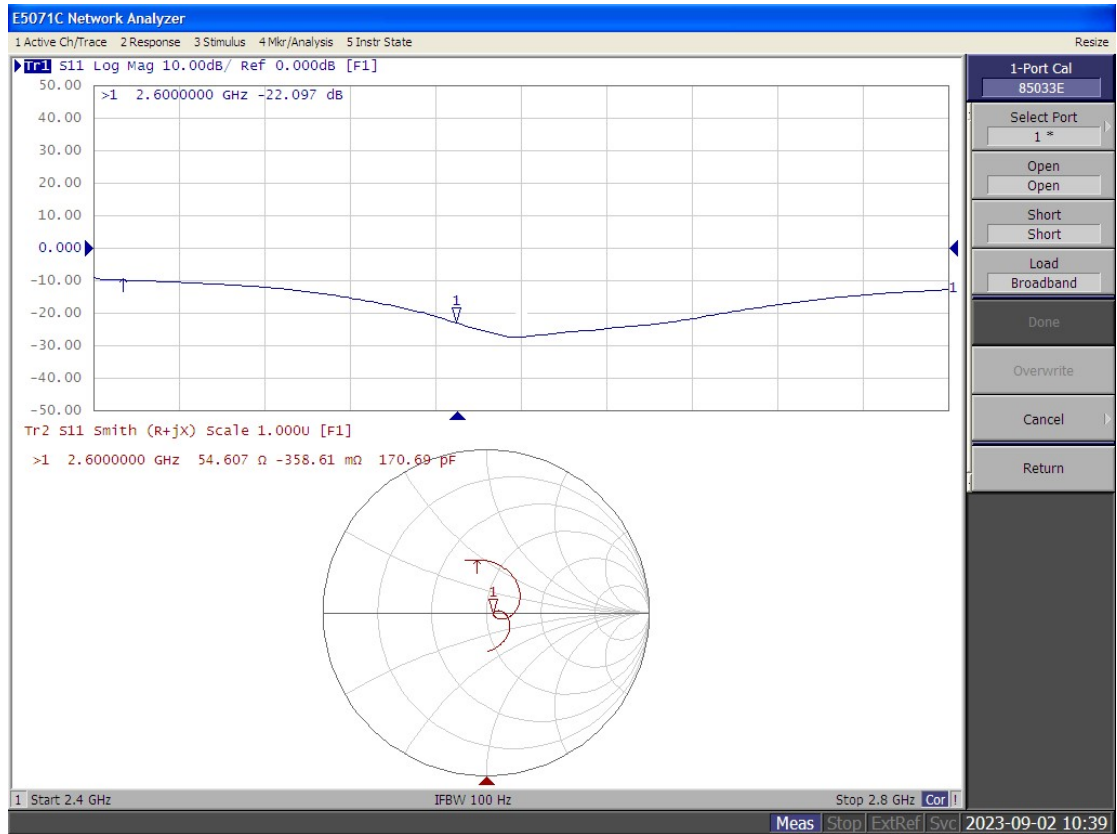
### <Justification of the extended calibration>

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

### Dipole Verification Data> D2600V2, serial no. 1093







## D3500V2, Serial No. 1143 Extended Dipole Calibrations

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

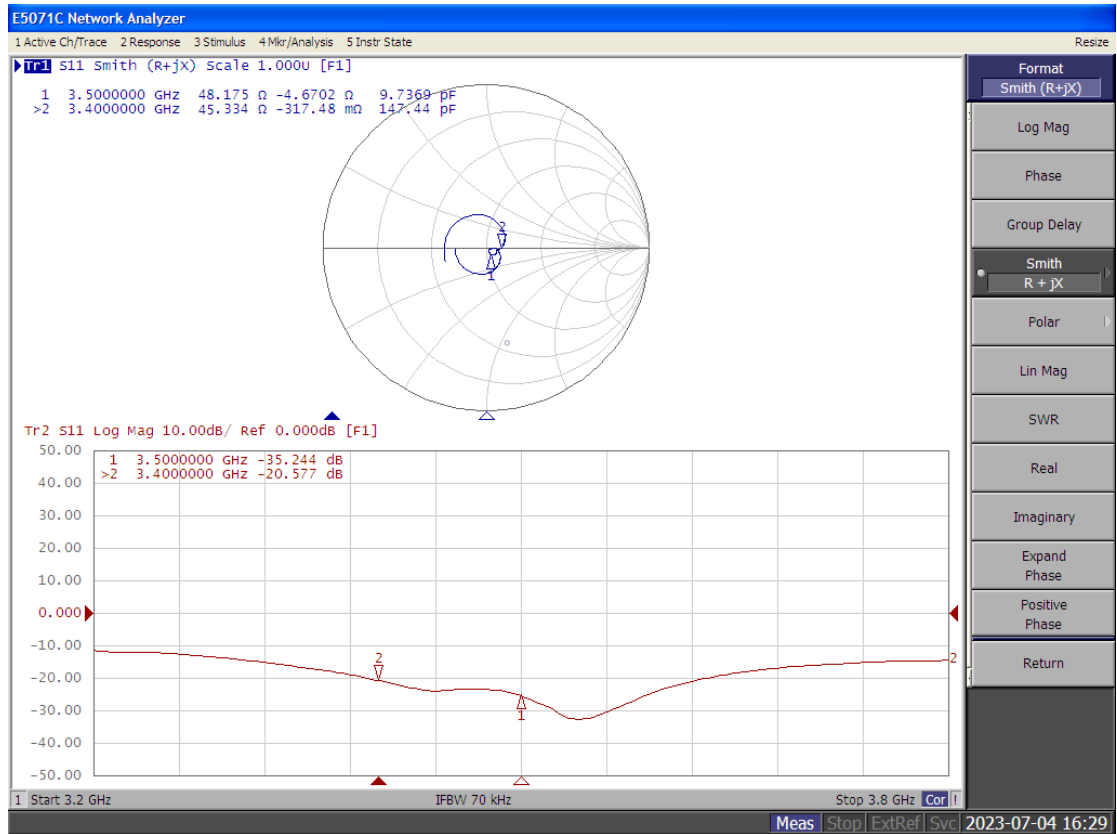
| D3500V2, Serial No. 1143 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 3400 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2022.7.5                 | -20.039          |           | 43.810                 |                    |
| 2023.7.4                 | -20.577          | 2.7       | 45.334                 | 1.524              |

| D3500V2, Serial No. 1143 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 3500 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2022.7.5                 | -33.061          |           | 51.547                 |                    |
| 2023.7.4                 | -35.244          | 6.6       | 48.175                 | -3.372             |

### <Justification of the extended calibration>

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

### Dipole Verification Data> D3500V2, serial no. 1143



## D5GHzV2, Serial No. 1188 Extended Dipole Calibrations

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

| D5GHzV2, Serial No. 1188 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 5250 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.9.6                 | -25.314          |           | 48.767                 |                    |
| 2022.9.5                 | -22.790          | 10        | 46.294                 | -2.473             |
| 2023.9.5                 | -23.921          | 6         | 46.960                 | -1.807             |

| D5GHzV2, Serial No. 1188 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 5600 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.9.6                 | -25.581          |           | 53.646                 |                    |
| 2022.9.5                 | -24.486          | 4         | 49.838                 | -3.808             |
| 2023.9.5                 | -28.567          | 12        | 49.583                 | -4.063             |

| D5GHzV2, Serial No. 1188 |                  |           |                        |                    |
|--------------------------|------------------|-----------|------------------------|--------------------|
|                          | 5750 MHz         |           |                        |                    |
| Date of Measurement      | Return Loss (dB) | Delta (%) | Impedance ( $\Omega$ ) | Delta ( $\Omega$ ) |
| 2021.9.6                 | -25.180          |           | 55.545                 |                    |
| 2022.9.5                 | -20.640          | 18        | 53.672                 | -1.873             |
| 2023.9.5                 | -21.043          | 16        | 52.505                 | -3.04              |

### <Justification of the extended calibration>

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

**Dipole Verification Data> D5GHzV2, serial no. 1188**

