

## <Justification of the extended calibration>

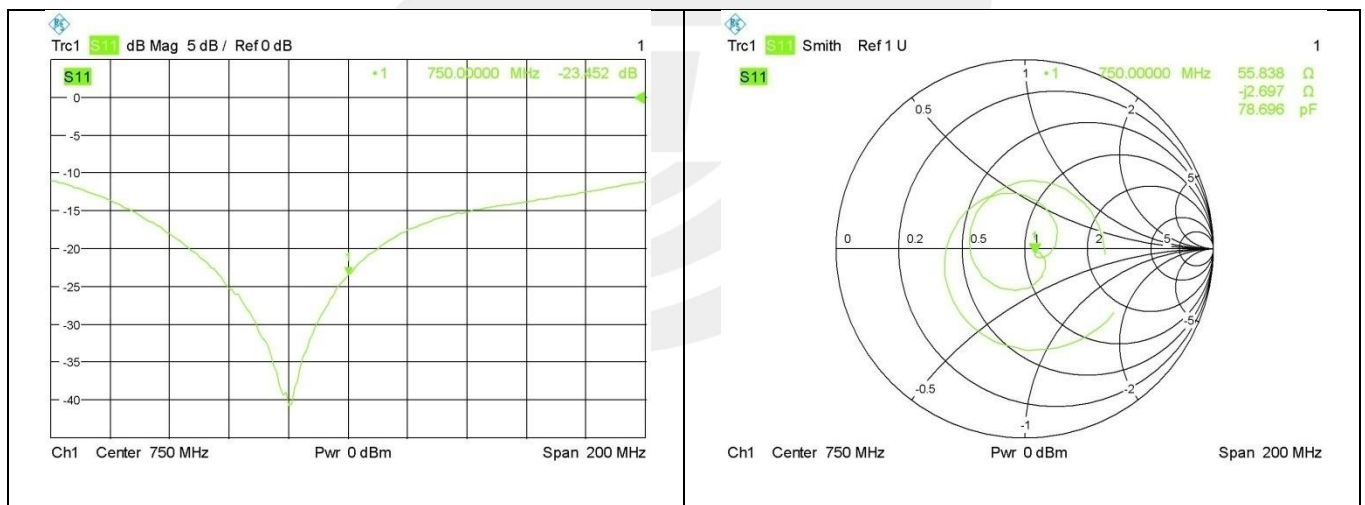
Referring to KDB 865664 D01, if dipoles are verified in return loss<-20dB, (within 20% of prior calibration),and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

| Head 750 MHz        |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -25.42           | -         | 55.1      | -          |
| 2018.08.15          | -23.45           | -7.75     | 55.84     | 0.74       |

The return loss is <-20dB, 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 750 MHz

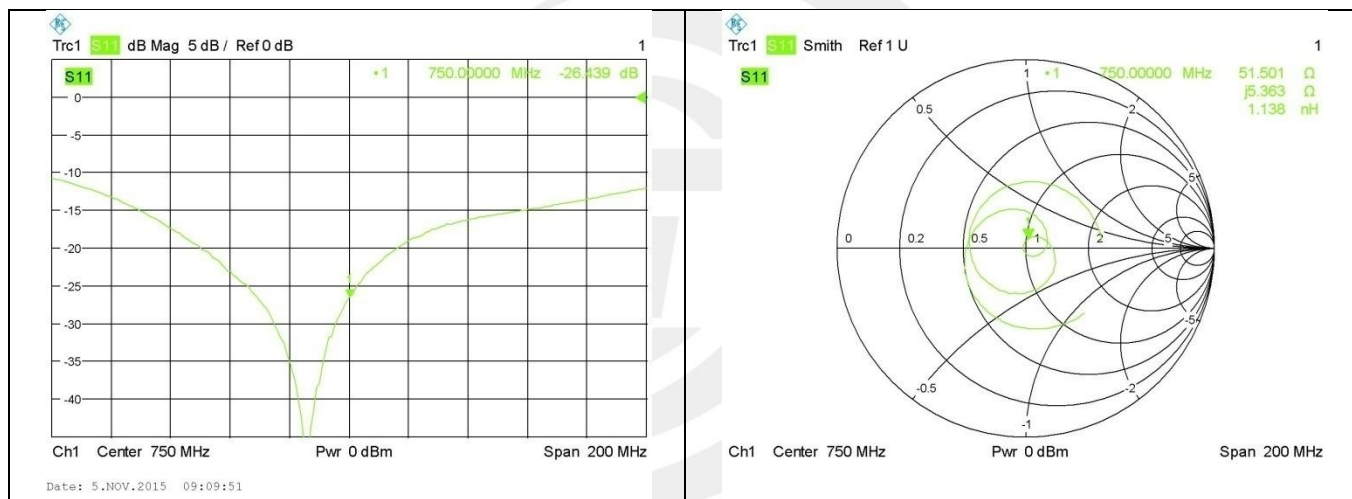


| Body 750 MHz        |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -27.21           | -         | 51.3      | -          |
| 2018.08.15          | -26.44           | -2.82     | 51.50     | 0.2        |

The return loss is <-20dB, 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>

Body 750 MHz

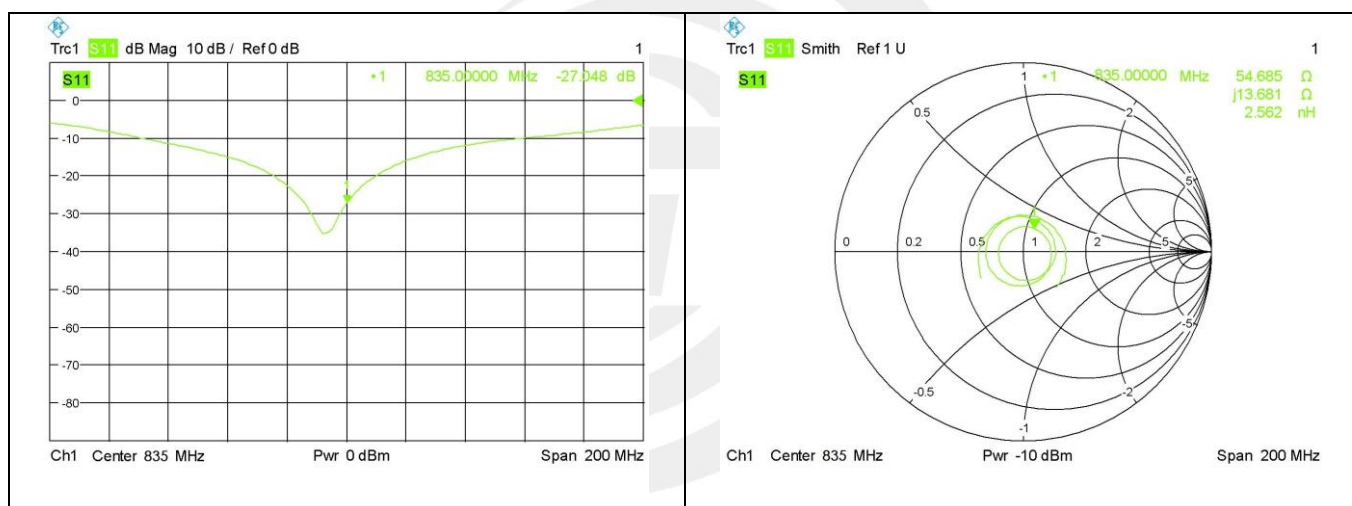


| Head 835 MHz        |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -28.11           | -         | 51.6      | -          |
| 2018.08.15          | -27.05           | -3.77     | 54.69     | 3.09       |

The return loss is <-20dB, 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 835MHz

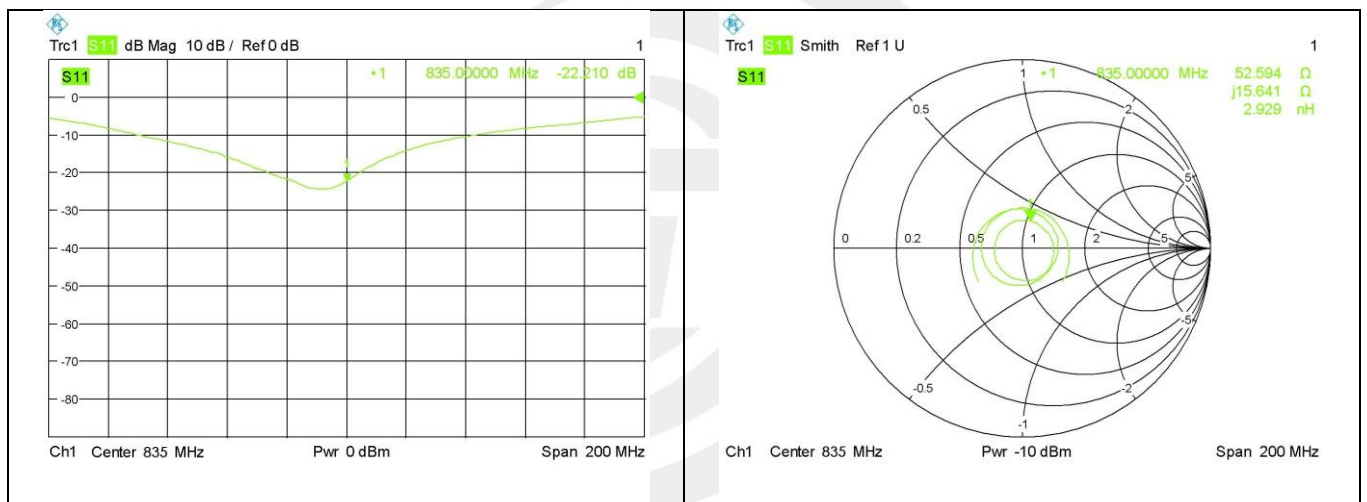


| Body 835 MHz        |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -23.87           | -         | 49.0      | -          |
| 2018.08.15          | -22.21           | -6.95     | 52.59     | 3.59       |

The return loss is <-20dB, 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>

Body 835MHz

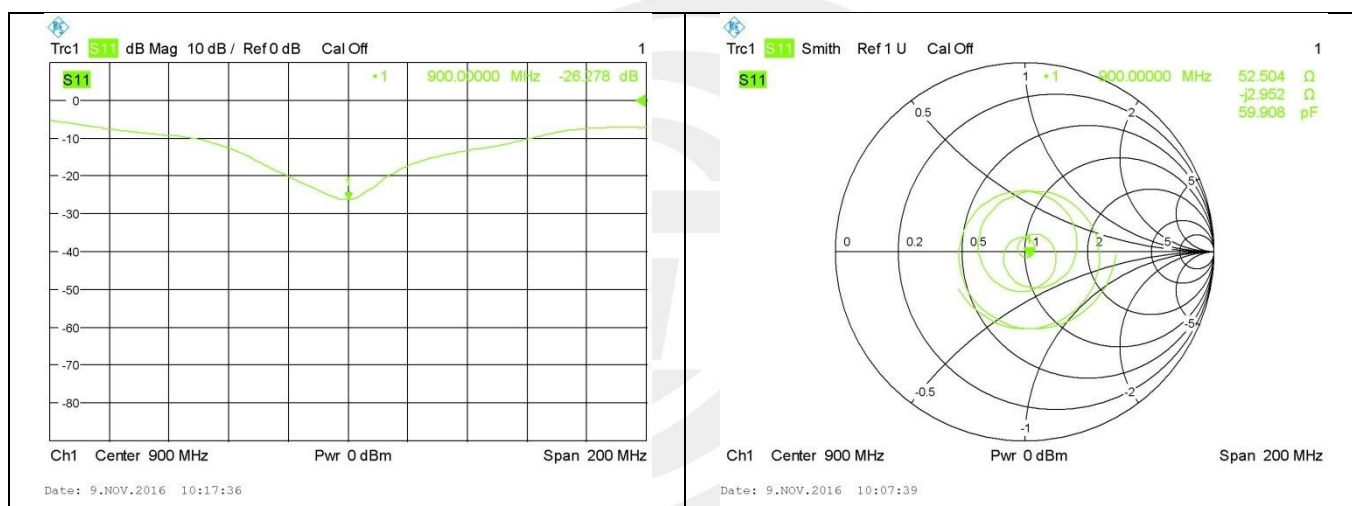


| Head 900 MHz        |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -27.32           | -         | 53.9      | -          |
| 2018.08.15          | -26.28           | 3.8       | 52.5      | -1.4       |

The return loss is <-20dB, 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 900MHz

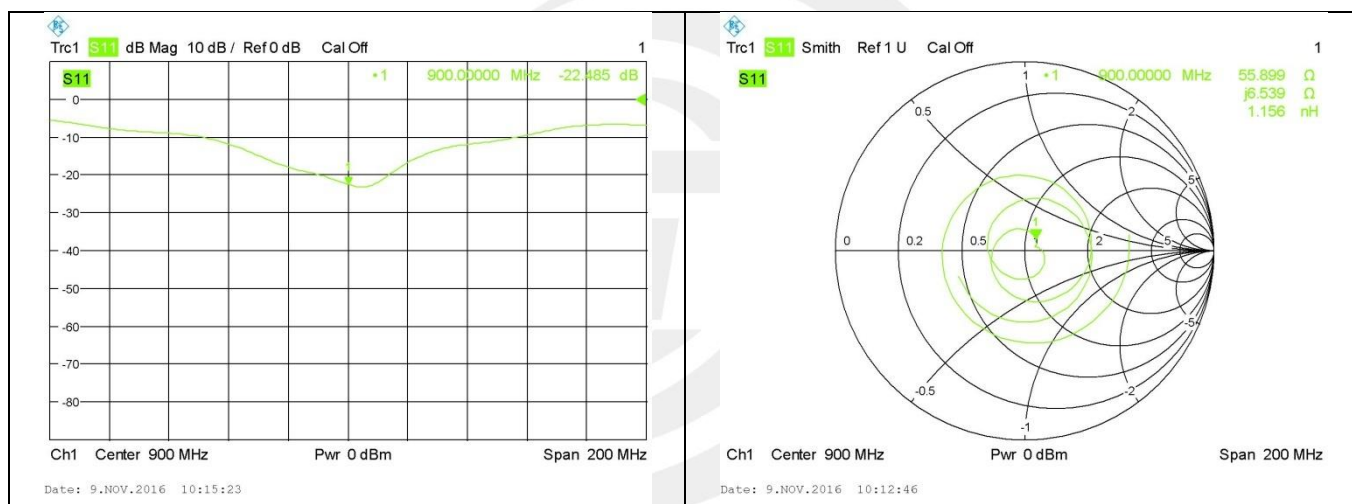


| Body 900 MHz        |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -23.53           | -         | 56.4      | -          |
| 2018.08.15          | -22.49           | 4.4       | 55.9      | -0.5       |

The return loss is <-20dB, 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>

Body 900MHz

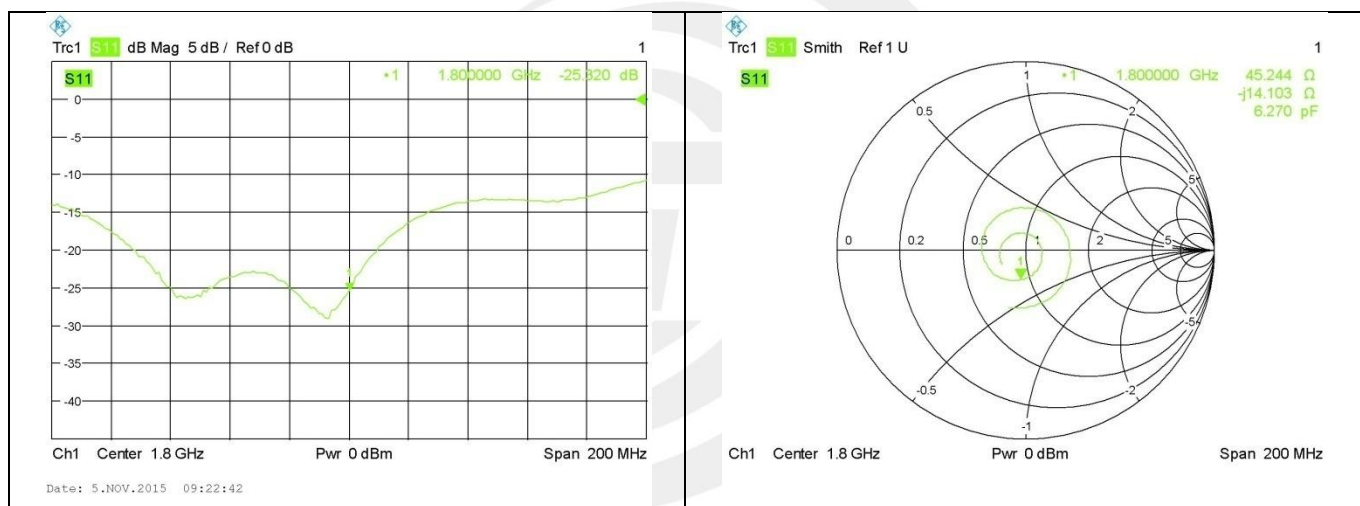


| Head 1800 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -29.51           | -         | 46.7      | -          |
| 2018.08.15          | -25.32           | -14.2     | 45.24     | -1.46      |

The return loss is <-20dB, 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 1800 MHz

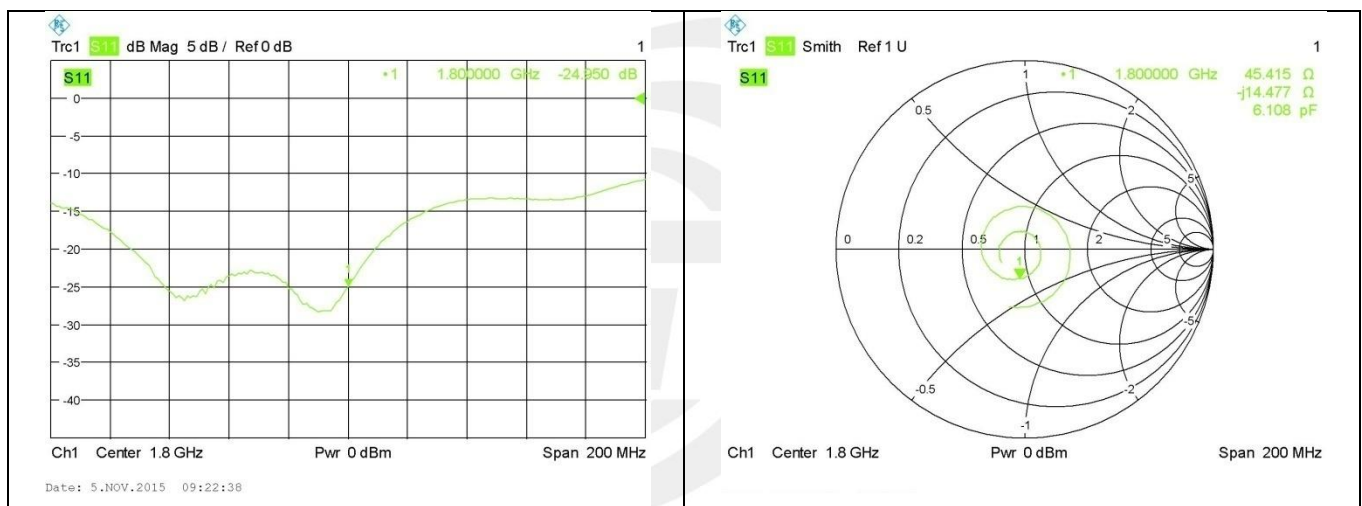


| Body 1800 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -24.59           | -         | 48.8      | -          |
| 2018.08.15          | -24.95           | 1.46      | 45.42     | -3.38      |

The return loss is <-20dB, 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>

Body 1800 MHz

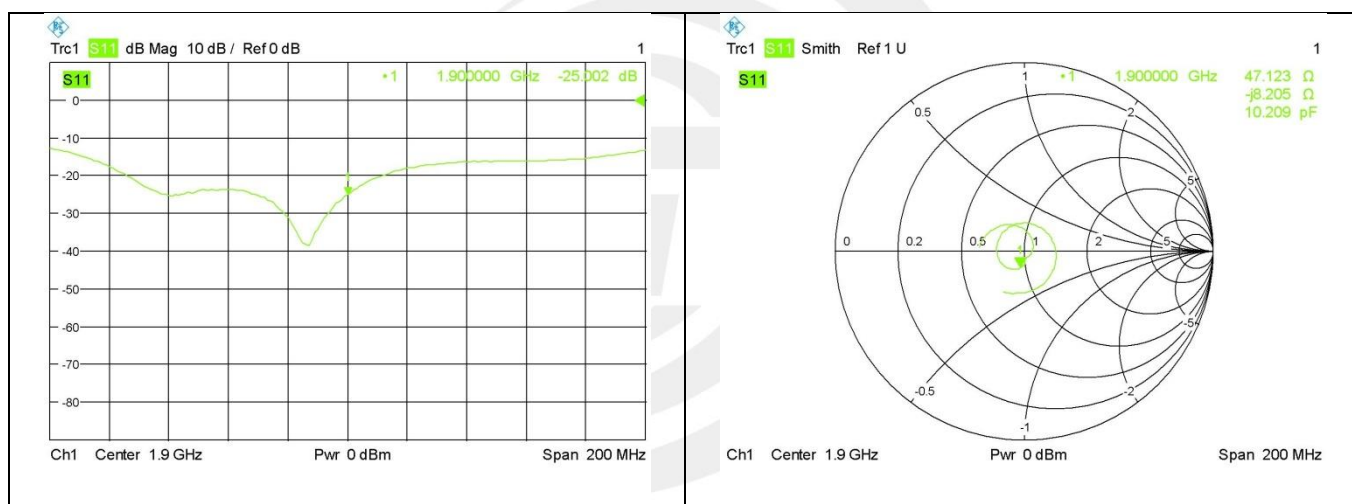


| Head 1900 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -23.68           | -         | 51.2      | -          |
| 2018.08.15          | -25.00           | 5.57      | 47.12     | -4.08      |

The return loss is <-20dB, 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 1900 MHz

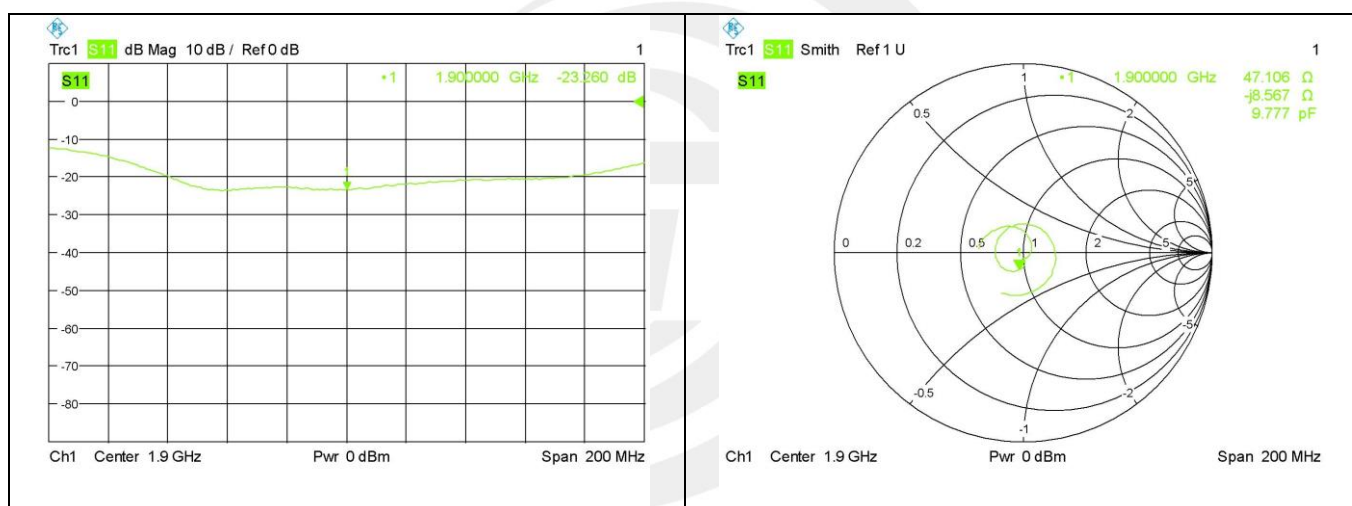


| Body 1900 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -20.22           | -         | 48.8      | -          |
| 2018.08.15          | -23.26           | 15.03     | 47.11     | -1.79      |

The return loss is <-20dB, 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>

Body 1900 MHz

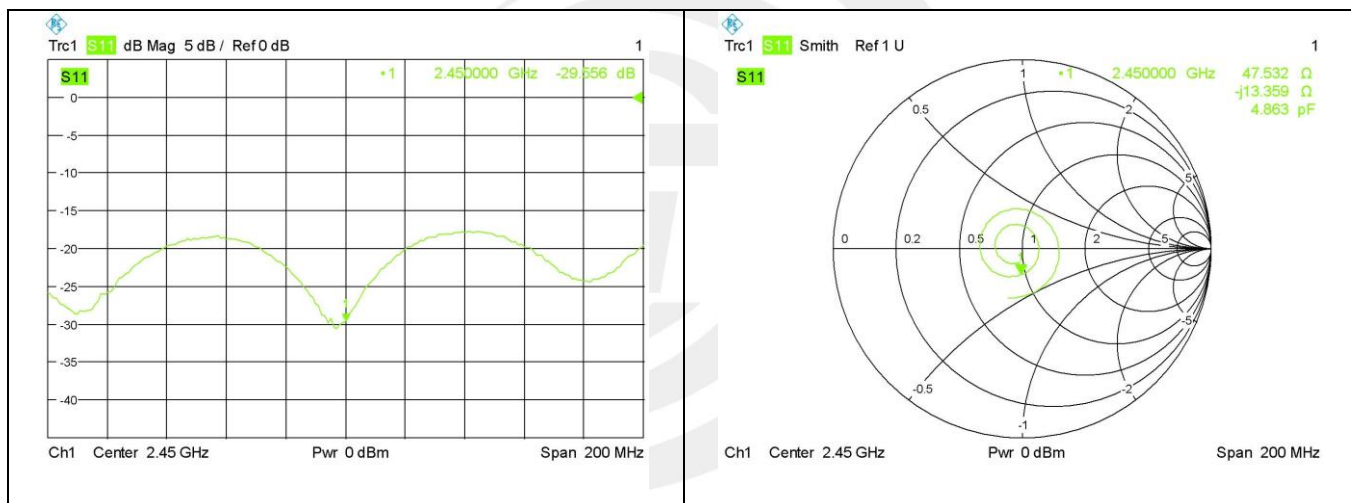


| Head 2450 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -26.00           | -         | 46.1      | -          |
| 2018.08.15          | -29.56           | 13.69     | 47.53     | 1.43       |

The return loss is <-20dB, 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

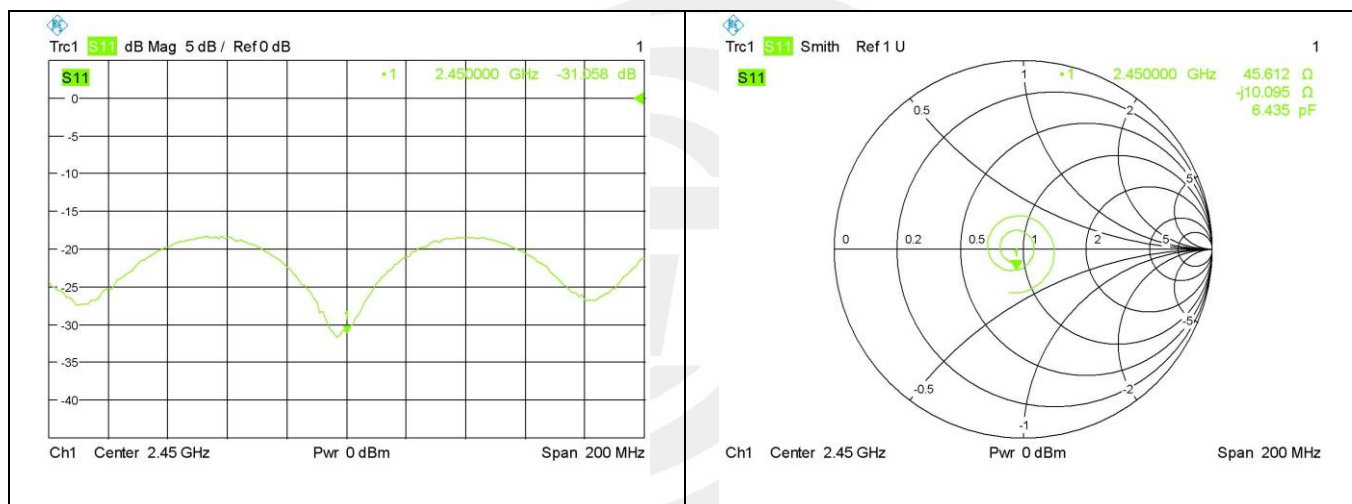


| Body 2450 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -32.75           | -         | 48.8      | -          |
| 2018.08.15          | -31.06           | -5.16     | 45.61     | -3.19      |

The return loss is <-20dB, 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>

Body 2450 MHz

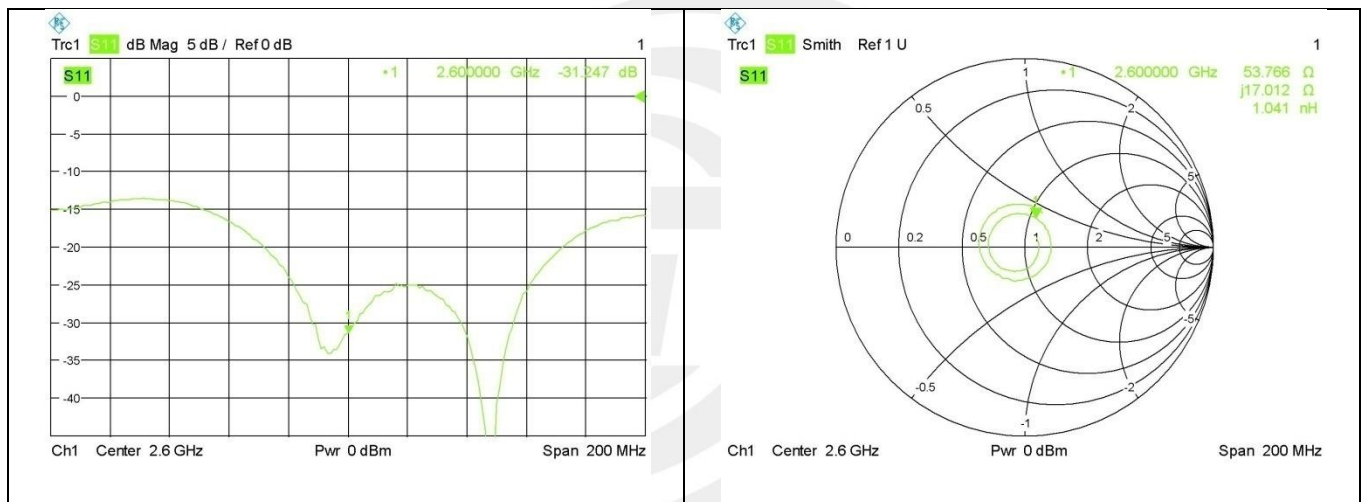


| Head 2600 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -34.35           | -         | 50.2      | -          |
| 2018.08.15          | -31.25           | -9.02     | 53.76     | 3.56       |

The return loss is <-20dB, 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 2600 MHz

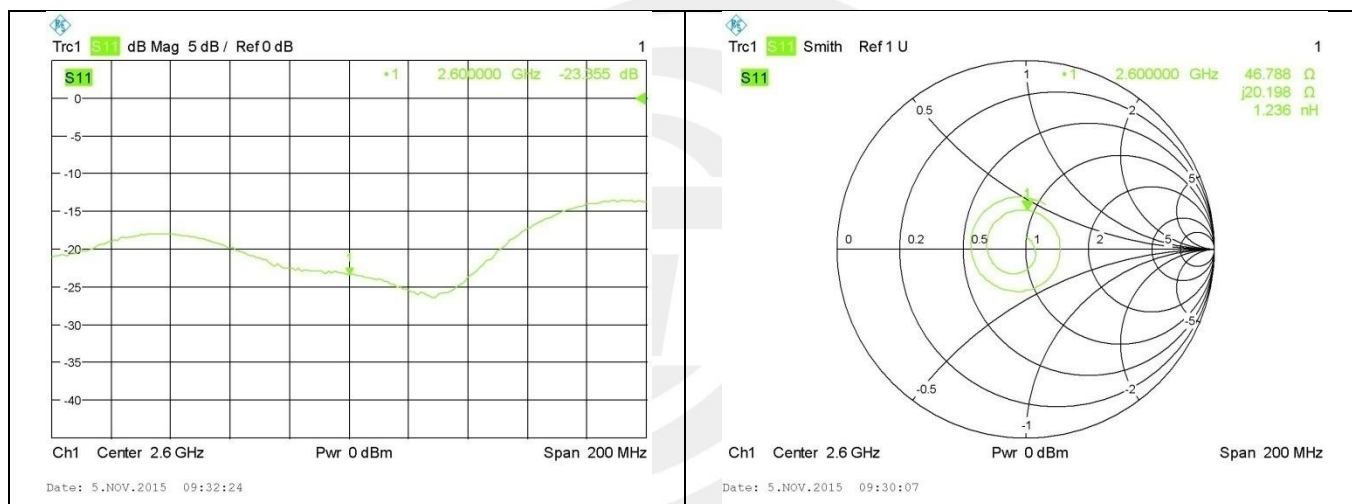


| Body 2600 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | -24.18           | -         | 45.7      | -          |
| 2018.08.15          | -23.36           | -7.52     | 46.79     | 1.09       |

The return loss is <-20dB, 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>

Body 2600 MHz



| Body 5000 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2017.08.15          | < 13.94          | -         | -         | -          |
| 2018.08.15          | < 13.52          | -         | -         | -          |

The return loss is <-8dB, within 20% of prior calibration; Therefore the verification result should support extended calibration.

### <Dipole Verification Data>

Body 5000MHz

