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## ***Appendix B – System Check Plots***

Test Date : 2024-11-26 | Ambient Temp : 22.5 °C | Tissue Temp : 21.4 °C

**System Performance Check****System Performance Check at 2450 MHz****Verification Source Properties**

| Manufacturer | Model No. | Serial No. | Input Power [dBm] |
|--------------|-----------|------------|-------------------|
| SPEAG        | D2450     | 1087       | 17.0              |

**Exposure Conditions**

| Phantom Section | Group | Frequency [MHz] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------|-------|-----------------|-------------------|------------------------|------------------|
| Flat            | CW    | 2450.000        | 7.09              | 1.86                   | 39.1             |

**Hardware Setup**

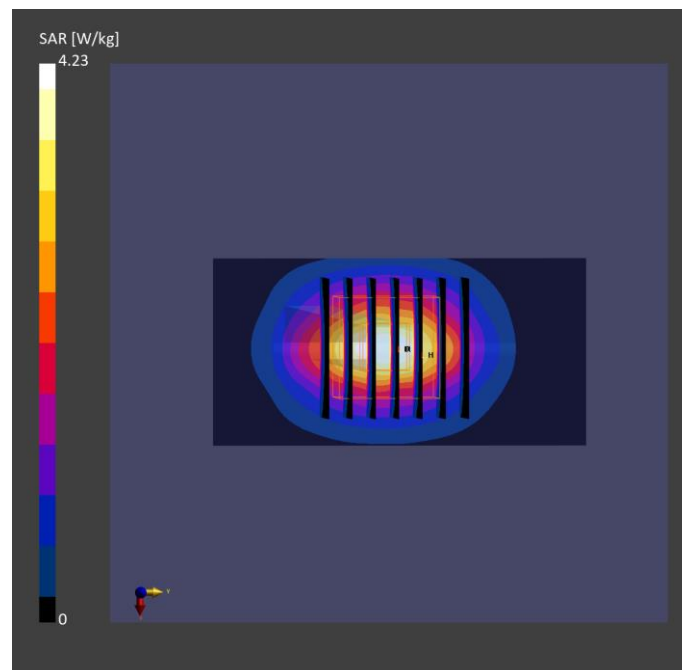
| Phantom                            | Tissue Simulating Liquid | Probe   Calibration Date     | DAE   Calibration Date   |
|------------------------------------|--------------------------|------------------------------|--------------------------|
| ELI V8.0 (20deg probe tilt) - 2179 | HBBL-600-10000           | EX3DV4 - SN7756 / 2024-09-04 | DAE4 Sn1742 / 2024-08-15 |

**Scan Setup**

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 10.0 x 10.0 | 5.0 x 5.0 x 1.5    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | N/A         | Yes                |
| Grading Ratio       | N/A         | 1.5                |

**Measurement Results**

|                  | Area Scan     | Zoom Scan     |
|------------------|---------------|---------------|
| psSAR-1g [W/kg]  | 2.59          | <b>2.57</b>   |
| psSAR-10g [W/kg] | 1.21          | <b>1.19</b>   |
| Power Drift [dB] |               | 0.03          |
| TSL Correction   | Positive only | Positive only |



Test Date : 2024-11-27 | Ambient Temp : 22.6 °C | Tissue Temp : 21.3 °C

**System Performance Check****System Performance Check at 5250 MHz****Verification Source Properties**

| Manufacturer | Model No. | Serial No. | Input Power [dBm] |
|--------------|-----------|------------|-------------------|
| SPEAG        | D5GHzV2   | 1358       | 17.0              |

**Exposure Conditions**

| Phantom Section | Group | Frequency [MHz] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------|-------|-----------------|-------------------|------------------------|------------------|
| Flat            | CW    | 5250.000        | 5.27              | 4.29                   | 34.3             |

**Hardware Setup**

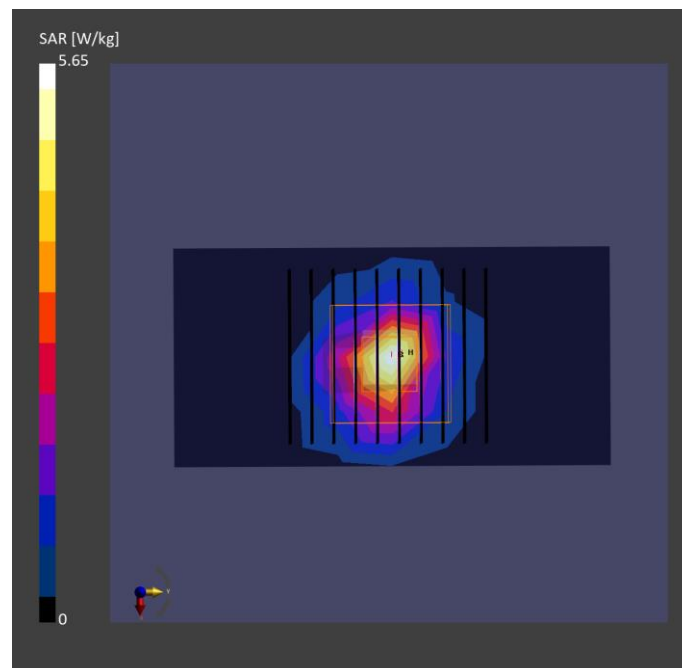
| Phantom                            | Tissue Simulating Liquid | Probe   Calibration Date     | DAE   Calibration Date   |
|------------------------------------|--------------------------|------------------------------|--------------------------|
| ELI V8.0 (20deg probe tilt) - 2179 | HBBL-600-10000           | EX3DV4 - SN7756 / 2024-09-04 | DAE4 Sn1742 / 2024-08-15 |

**Scan Setup**

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 80.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm]     | 10.0 x 10.0 | 4.0 x 4.0 x 1.4    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | N/A         | Yes                |
| Grading Ratio       | N/A         | 1.4                |

**Measurement Results**

|                  | Area Scan     | Zoom Scan     |
|------------------|---------------|---------------|
| psSAR-1g [W/kg]  | 3.55          | <b>3.84</b>   |
| psSAR-10g [W/kg] | 1.04          | <b>1.08</b>   |
| Power Drift [dB] |               | -0.18         |
| TSL Correction   | Positive only | Positive only |



Test Date : 2024-11-28 | Ambient Temp : 22.3 °C | Tissue Temp : 21.3 °C

**System Performance Check****System Performance Check at 5600 MHz****Verification Source Properties**

| Manufacturer | Model No. | Serial No. | Input Power [dBm] |
|--------------|-----------|------------|-------------------|
| SPEAG        | D5GHzV2   | 1358       | 17.0              |

**Exposure Conditions**

| Phantom Section | Group | Frequency [MHz] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------|-------|-----------------|-------------------|------------------------|------------------|
| Flat            | CW    | 5600.000        | 4.7               | 4.87                   | 34.0             |

**Hardware Setup**

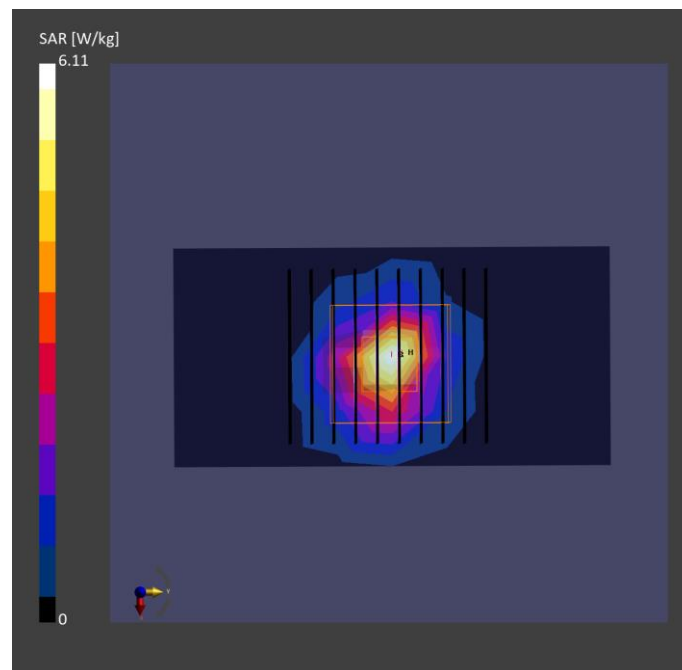
| Phantom                            | Tissue Simulating Liquid | Probe / Calibration Date     | DAE / Calibration Date   |
|------------------------------------|--------------------------|------------------------------|--------------------------|
| ELI V8.0 (20deg probe tilt) - 2179 | HBBL-600-10000           | EX3DV4 - SN7756 / 2024-09-04 | DAE4 Sn1742 / 2024-08-15 |

**Scan Setup**

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 80.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm]     | 10.0 x 10.0 | 4.0 x 4.0 x 1.4    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | N/A         | Yes                |
| Grading Ratio       | N/A         | 1.4                |

**Measurement Results**

|                  | Area Scan     | Zoom Scan     |
|------------------|---------------|---------------|
| psSAR-1g [W/kg]  | 3.84          | <b>4.18</b>   |
| psSAR-10g [W/kg] | 1.11          | <b>1.16</b>   |
| Power Drift [dB] |               | -0.12         |
| TSL Correction   | Positive only | Positive only |



Test Date : 2024-11-29 | Ambient Temp : 22.7 °C | Tissue Temp : 21.5 °C

**System Performance Check****System Performance Check at 5800 MHz****Verification Source Properties**

| Manufacturer | Model No. | Serial No. | Input Power [dBm] |
|--------------|-----------|------------|-------------------|
| SPEAG        | D5GHzV2   | 1358       | 17.0              |

**Exposure Conditions**

| Phantom Section | Group | Frequency [MHz] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------|-------|-----------------|-------------------|------------------------|------------------|
| Flat            | CW    | 5800.000        | 4.73              | 5.21                   | 34.6             |

**Hardware Setup**

| Phantom                            | Tissue Simulating Liquid | Probe   Calibration Date     | DAE   Calibration Date   |
|------------------------------------|--------------------------|------------------------------|--------------------------|
| ELI V8.0 (20deg probe tilt) - 2179 | HBBL-600-10000           | EX3DV4 - SN7756 / 2024-09-04 | DAE4 Sn1742 / 2024-08-15 |

**Scan Setup**

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 80.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm]     | 10.0 x 10.0 | 4.0 x 4.0 x 1.4    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | N/A         | Yes                |
| Grading Ratio       | N/A         | 1.4                |

**Measurement Results**

|                  | Area Scan     | Zoom Scan     |
|------------------|---------------|---------------|
| psSAR-1g [W/kg]  | 3.52          | <b>3.80</b>   |
| psSAR-10g [W/kg] | 1.02          | <b>1.06</b>   |
| Power Drift [dB] |               | -0.05         |
| TSL Correction   | Positive only | Positive only |

