

2022-08-01 System Performance Check Report D5GHzV2 - SN1213

Summary

|                       |                  |                |      |
|-----------------------|------------------|----------------|------|
| Dipole                | D5GHzV2 - SN1213 |                |      |
| Frequency [MHz]       | 5250.0           |                |      |
| Phantom Section   TSL | Flat   HSL       | Dev. Peak [%]  | -1.5 |
| Power [dBm]           | 17.0             | Iso. Error [%] | -2.0 |

Exposure Conditions

|                      |      |                        |      |
|----------------------|------|------------------------|------|
| Dipole Distance [mm] | 10   | TSL Permittivity       | 35.1 |
| Conversion Factor    | 5.14 | TSL Conductivity [S/m] | 4.70 |

Hardware Setup

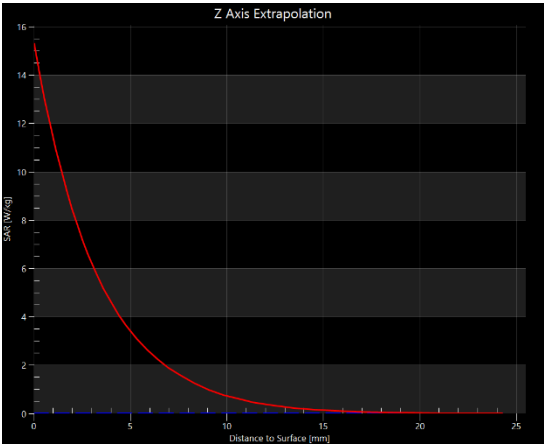
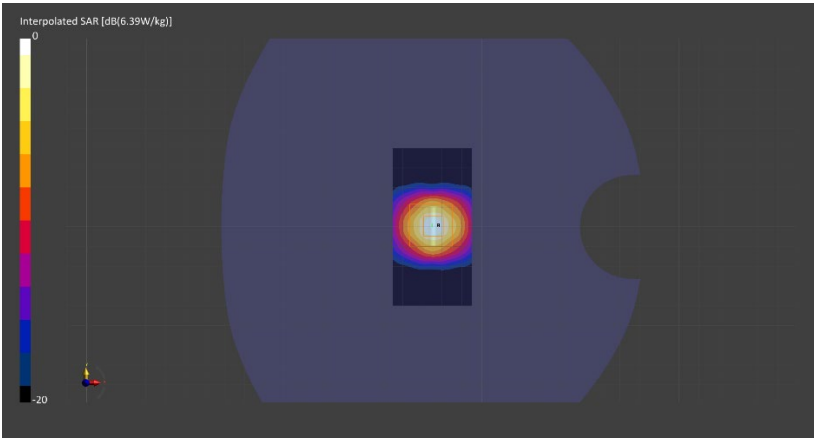
|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7549   2022-02-21 | Phantom          | Twin-SAM V8.0 (30deg probe tilt) - SN2084 |
| DAE   Calibration Date   | DAE4 Sn1715   2022-02-22     | TSL   Meas. Date | HBBL-600-10000   2022-Aug-01              |

Scans 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         | Yes         | Yes                |
| M2/M1 [%]           |             | 65.0               |
| Dist 3dB Peak [mm]  |             | 7.4                |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 3.88      | 4.00      |
| psSAR10g [W/Kg]  | 1.10      | 1.14      |
| Power Drift [dB] | -0.07     | -0.08     |



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Summary

|                       |                  |                |      |
|-----------------------|------------------|----------------|------|
| Dipole                | D5GHzV2 - SN1213 |                |      |
| Frequency [MHz]       | 5600.0           |                |      |
| Phantom Section   TSL | Flat   HSL       | Dev. Peak [%]  | 3.6  |
| Power [dBm]           | 17.0             | Iso. Error [%] | -2.1 |

Exposure Conditions

|                      |      |                        |      |
|----------------------|------|------------------------|------|
| Dipole Distance [mm] | 10   | TSL Permittivity       | 34.4 |
| Conversion Factor    | 4.56 | TSL Conductivity [S/m] | 5.11 |

Hardware Setup

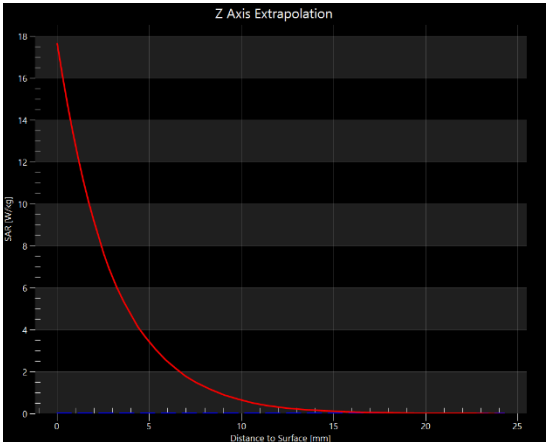
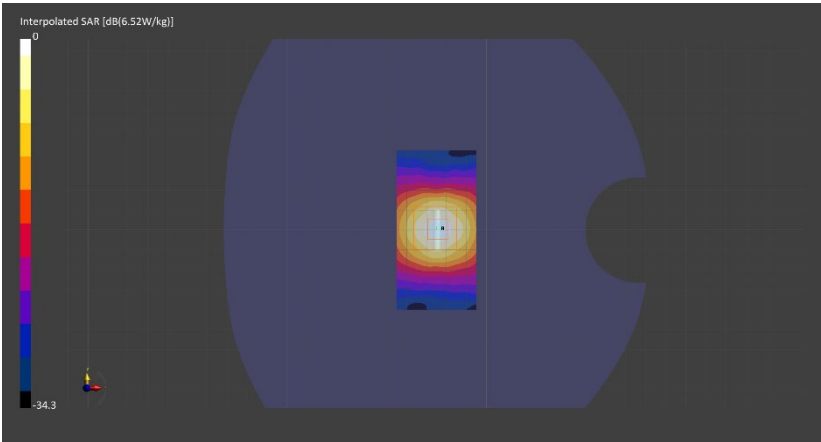
|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7549   2022-02-21 | Phantom          | Twin-SAM V8.0 (30deg probe tilt) - SN2084 |
| DAE   Calibration Date   | DAE4 Sn1715   2022-02-22     | TSL   Meas. Date | HBBL-600-10000   2022-Aug-01              |

Scans 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         | Yes         | Yes                |
| M2/M1 [%]           |             | 62.0               |
| Dist 3dB Peak [mm]  |             | 7.4                |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 4.01      | 4.26      |
| psSAR10g [W/Kg]  | 1.13      | 1.20      |
| Power Drift [dB] | 0.03      | 0.01      |



2022-08-02 System Performance Check Report D900V2 - SN1d180

Summary

|                       |                  |                |     |
|-----------------------|------------------|----------------|-----|
| Dipole                | D900V2 - SN1d180 |                |     |
| Frequency [MHz]       | 900.0            |                |     |
| Phantom Section   TSL | Flat   HSL       | Dev. Peak [%]  | 8.1 |
| Power [dBm]           | 17.0             | Iso. Error [%] | 2.3 |

Exposure Conditions

|                      |      |                        |       |
|----------------------|------|------------------------|-------|
| Dipole Distance [mm] | 15   | TSL Permittivity       | 42.4  |
| Conversion Factor    | 9.19 | TSL Conductivity [S/m] | 0.942 |

Hardware Setup

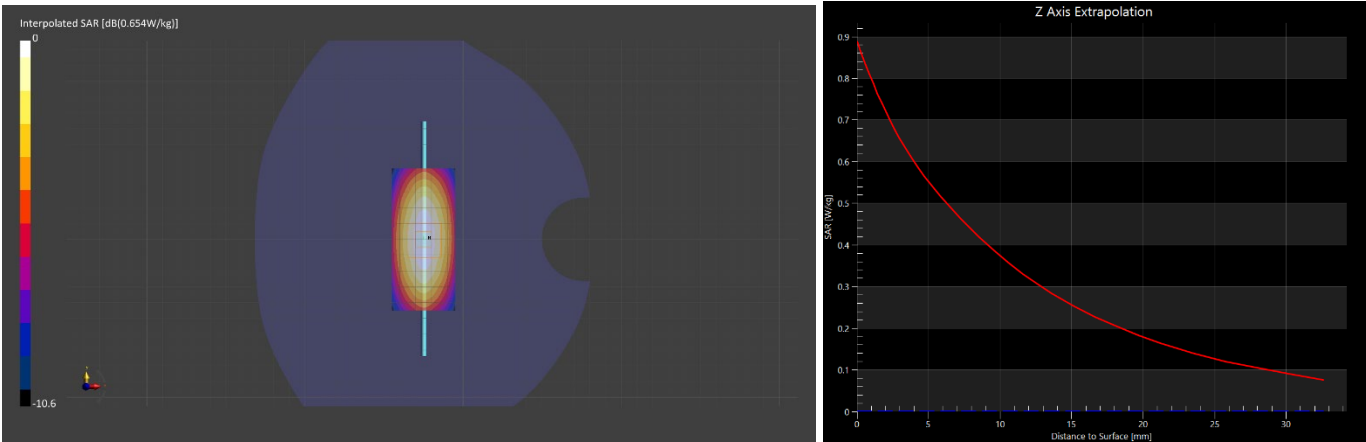
|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7549   2022-02-21 | Phantom          | Twin-SAM V8.0 (30deg probe tilt) - SN2084 |
| DAE   Calibration Date   | DAE4 Sn1715   2022-02-22     | TSL   Meas. Date | HBBL-600-10000   2022-Aug-02              |

Scans Setup

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 10.0 x 15.0 | 6.0 x 6.0 x 1.5    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | Yes         | Yes                |
| M2/M1 [%]           |             | 86.0               |
| Dist 3dB Peak [mm]  |             | 19.0               |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 0.561     | 0.563     |
| psSAR10g [W/Kg]  | 0.365     | 0.365     |
| Power Drift [dB] | -0.01     | 0.01      |



2022-08-03 System Performance Check Report D1900V2 - SN5d202

Summary

|                       |                   |                |      |
|-----------------------|-------------------|----------------|------|
| Dipole                | D1900V2 - SN5d202 |                |      |
| Frequency [MHz]       | 1900.0            |                |      |
| Phantom Section   TSL | Flat   HSL        | Dev. Peak [%]  | 14.8 |
| Power [dBm]           | 17.0              | Iso. Error [%] | -2.0 |

Exposure Conditions

|                      |      |                        |      |
|----------------------|------|------------------------|------|
| Dipole Distance [mm] | 10   | TSL Permittivity       | 38.5 |
| Conversion Factor    | 7.94 | TSL Conductivity [S/m] | 1.44 |

Hardware Setup

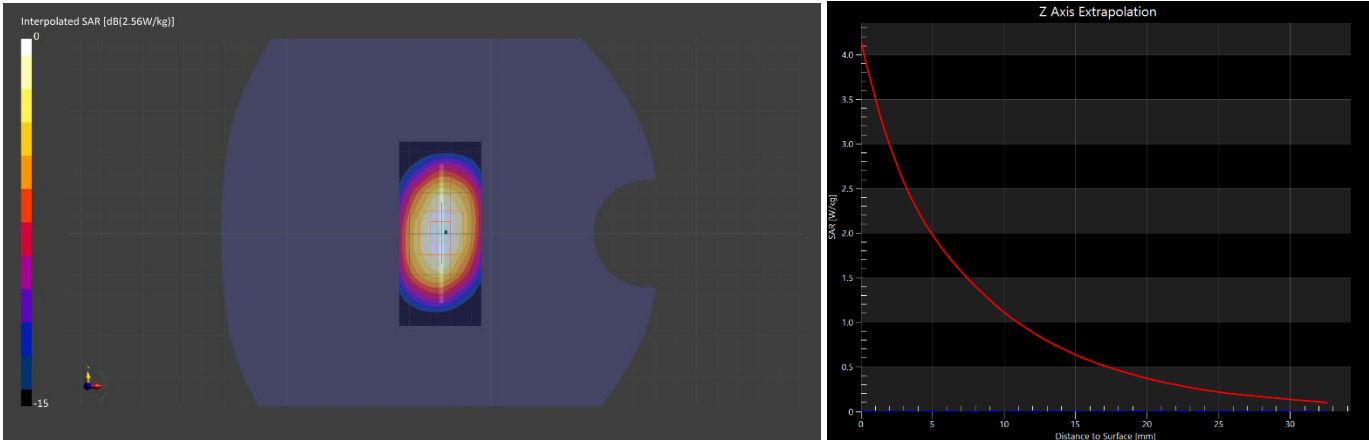
|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7549   2022-02-21 | Phantom          | Twin-SAM V8.0 (30deg probe tilt) - SN2084 |
| DAE   Calibration Date   | DAE4 Sn1715   2022-02-22     | TSL   Meas. Date | HBBL-600-10000   2022-Aug-03              |

Scans Setup

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 10.0 x 15.0 | 6.0 x 6.0 x 1.5    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | Yes         | Yes                |
| M2/M1 [%]           |             | 78.6               |
| Dist 3dB Peak [mm]  |             | 9.9                |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 2.03      | 2.06      |
| psSAR10g [W/Kg]  | 1.05      | 1.06      |
| Power Drift [dB] | 0.00      | 0.00      |



2022-07-26 System Performance Check Report D1900V2 - SN5d202

Summary

|                       |                   |                |     |
|-----------------------|-------------------|----------------|-----|
| Dipole                | D1900V2 - SN5d202 |                |     |
| Frequency [MHz]       | 1900.0            |                |     |
| Phantom Section   TSL | Flat   HSL        | Dev. Peak [%]  | 8.2 |
| Power [dBm]           | 17.0              | Iso. Error [%] | 2.9 |

Exposure Conditions

|                      |      |                        |      |
|----------------------|------|------------------------|------|
| Dipole Distance [mm] | 10   | TSL Permittivity       | 38.7 |
| Conversion Factor    | 8.51 | TSL Conductivity [S/m] | 1.45 |

Hardware Setup

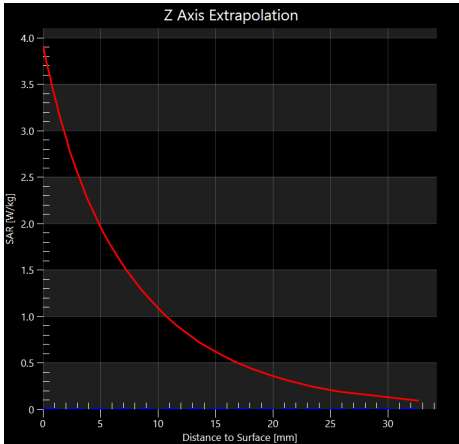
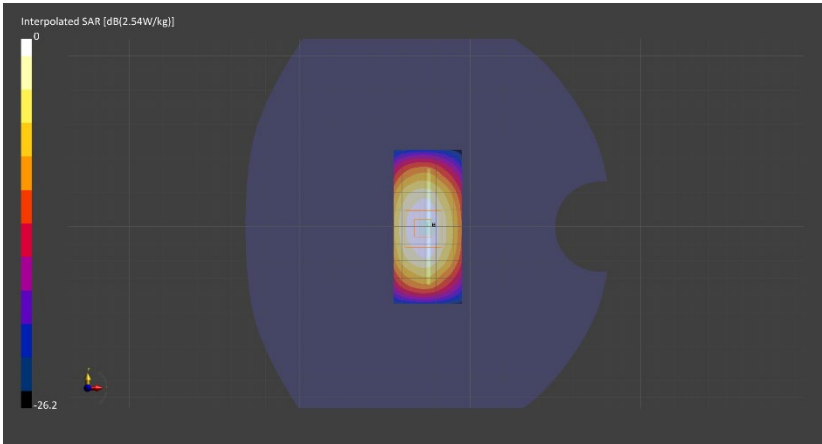
|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7709   2022-02-25 | Phantom          | Twin-SAM V8.0 (30deg probe tilt) - SN2082 |
| DAE   Calibration Date   | DAE4 Sn1714   2022-02-23     | TSL   Meas. Date | HBBL-600-10000   2022-Jul-25              |

Scans Setup

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 10.0 x 15.0 | 6.0 x 6.0 x 1.5    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | Yes         | Yes                |
| M2/M1 [%]           |             | 80.9               |
| Dist 3dB Peak [mm]  |             | 10.8               |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 2.01      | 2.01      |
| psSAR10g [W/Kg]  | 1.06      | 1.04      |
| Power Drift [dB] | -0.00     | 0.01      |



2022-08-02 System Performance Check Report D750V3 - SN1139

Summary

|                       |                 |                |     |
|-----------------------|-----------------|----------------|-----|
| Dipole                | D750V3 - SN1139 |                |     |
| Frequency [MHz]       | 750.0           |                |     |
| Phantom Section   TSL | Flat   HSL      | Dev. Peak [%]  | 5.7 |
| Power [dBm]           | 17.0            | Iso. Error [%] | 3.1 |

Exposure Conditions

|                      |       |                        |       |
|----------------------|-------|------------------------|-------|
| Dipole Distance [mm] | 15    | TSL Permittivity       | 43.0  |
| Conversion Factor    | 10.25 | TSL Conductivity [S/m] | 0.921 |

Hardware Setup

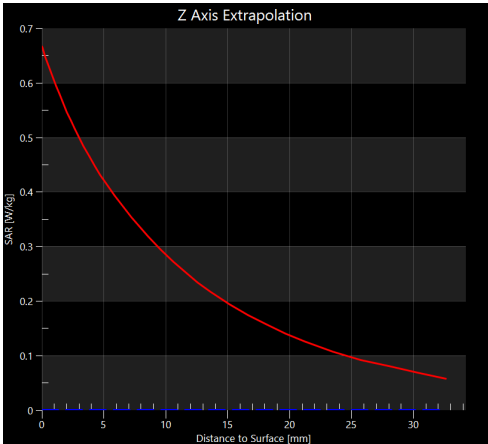
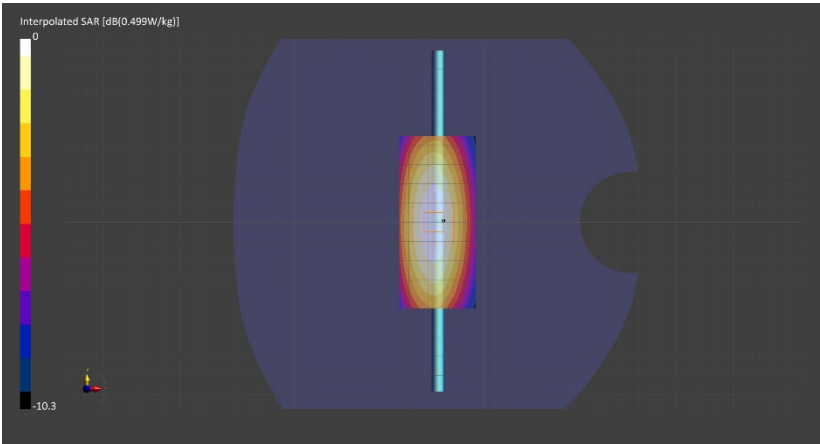
|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7709   2022-02-25 | Phantom          | Twin-SAM V8.0 (30deg probe tilt) - SN2082 |
| DAE   Calibration Date   | DAE4 Sn1714   2022-02-23     | TSL   Meas. Date | HBBL-600-10000   2022-Aug-02              |

Scans Setup

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 10.0 x 15.0 | 6.0 x 6.0 x 1.5    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | Yes         | Yes                |
| M2/M1 [%]           |             | 86.7               |
| Dist 3dB Peak [mm]  |             | > 15.0             |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 0.433     | 0.430     |
| psSAR10g [W/Kg]  | 0.290     | 0.281     |
| Power Drift [dB] | -0.00     | -0.02     |



2022-07-27 System Performance Check Report D1750V2 - SN1136

Summary

|                       |                  |                |      |
|-----------------------|------------------|----------------|------|
| Dipole                | D1750V2 - SN1136 |                |      |
| Frequency [MHz]       | 1750.0           |                |      |
| Phantom Section   TSL | Flat   HSL       | Dev. Peak [%]  | 10.3 |
| Power [dBm]           | 17.0             | Iso. Error [%] | 0.6  |

Exposure Conditions

|                      |      |                        |      |
|----------------------|------|------------------------|------|
| Dipole Distance [mm] | 10   | TSL Permittivity       | 38.3 |
| Conversion Factor    | 8.89 | TSL Conductivity [S/m] | 1.40 |

Hardware Setup

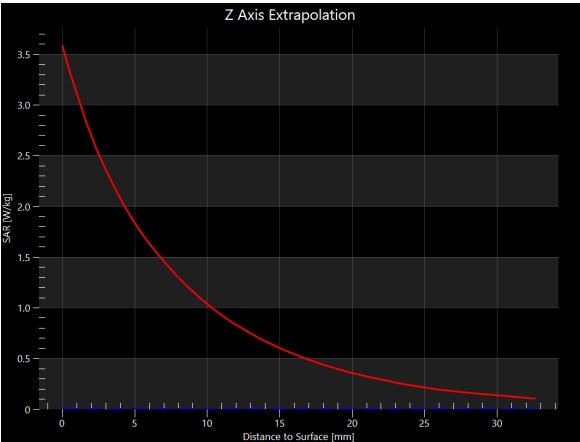
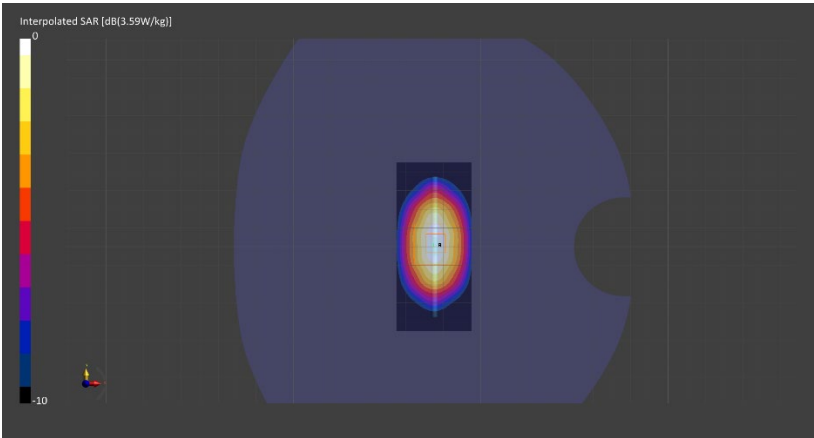
|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7711   2022-03-11 | Phantom          | Twin-SAM V5.0 (30deg probe tilt) - SN1742 |
| DAE   Calibration Date   | DAE4 Sn1716   2022-03-08     | TSL   Meas. Date | HBBL-600-10000   2022-Jul-27              |

Scans Setup

|                     | Area Scan   | Zoom Scan          |
|---------------------|-------------|--------------------|
| Grid Extents [mm]   | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm]     | 10.0 x 15.0 | 6.0 x 6.0 x 1.5    |
| Sensor Surface [mm] | 3.0         | 1.4                |
| Graded Grid         | Yes         | Yes                |
| M2/M1 [%]           |             | 81.2               |
| Dist 3dB Peak [mm]  |             | 10.8               |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 1.87      | 1.87      |
| psSAR10g [W/Kg]  | 0.998     | 0.984     |
| Power Drift [dB] | -0.01     | 0.02      |



2022-07-29 System Performance Check Report D2450V2 - SN963

Summary

|                       |                 |                |     |
|-----------------------|-----------------|----------------|-----|
| Dipole                | D2450V2 - SN963 |                |     |
| Frequency [MHz]       | 2450.0          |                |     |
| Phantom Section   TSL | Flat   HSL      | Dev. Peak [%]  | 7.0 |
| Power [dBm]           | 17.0            | Iso. Error [%] | 0.7 |

Exposure Conditions

|                      |      |                        |      |
|----------------------|------|------------------------|------|
| Dipole Distance [mm] | 10   | TSL Permittivity       | 37.9 |
| Conversion Factor    | 8.15 | TSL Conductivity [S/m] | 1.82 |

Hardware Setup

|                          |                              |                  |                                           |
|--------------------------|------------------------------|------------------|-------------------------------------------|
| Probe   Calibration Date | EX3DV4 - SN7711   2022-03-11 | Phantom          | Twin-SAM V5.0 (30deg probe tilt) - SN1742 |
| DAE   Calibration Date   | DAE4 Sn1716   2022-03-08     | TSL   Meas. Date | HBBL-600-10000   2022-Jul-29              |

Scans 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         | Yes         | Yes                |
| M2/M1 [%]           |             | 79.6               |
| Dist 3dB Peak [mm]  |             | 9.0                |

Measurement Results

|                  | Area Scan | Zoom Scan |
|------------------|-----------|-----------|
| psSAR1g [W/Kg]   | 2.64      | 2.66      |
| psSAR10g [W/Kg]  | 1.23      | 1.23      |
| Power Drift [dB] | -0.00     | 0.02      |

