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## Appendix B. Highest Measurement Data

Test Laboratory: DEKRA

Date: 2024/10/23

**38\_WLAN2.4GHz\_802.11n20-HT0\_CH6\_Front\_0mm\_ANT Main****DUT: BPM Pro 2; Type: WPM07**

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.79$  S/m;  $\epsilon_r = 37.48$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3698; ConvF(7.15, 7.15, 7.15) @ 2437 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (6x10x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.303 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.7900 V/m; Power Drift = -0.12 dB

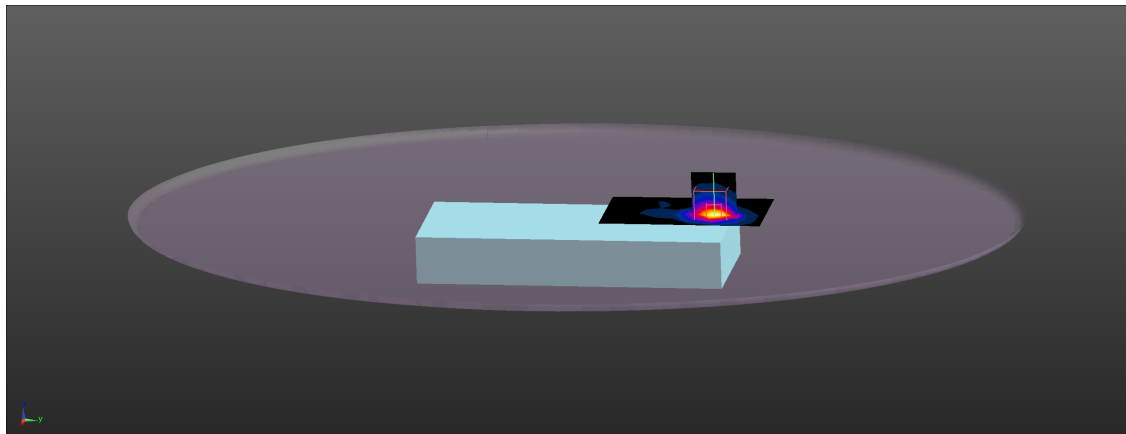
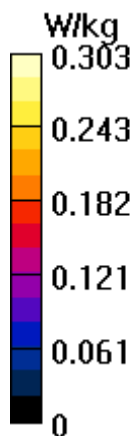
Peak SAR (extrapolated) = 0.402 W/kg

**SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.087 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.305 W/kg



Test Laboratory: DEKRA

Date: 2024/10/23

**42\_Bluetooth\_BLE-2M\_CH0\_Front\_0mm\_ANT Main****DUT: BPM Pro 2; Type: WPM07**

Communication System: UID 0, BT 1M&amp;3M&amp;BLE; Frequency: 2402 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.72$  S/m;  $\epsilon_r = 37.65$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3698; ConvF(7.15, 7.15, 7.15) @ 2402 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (6x10x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0188 W/kg

**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.855 V/m; Power Drift = -0.16 dB

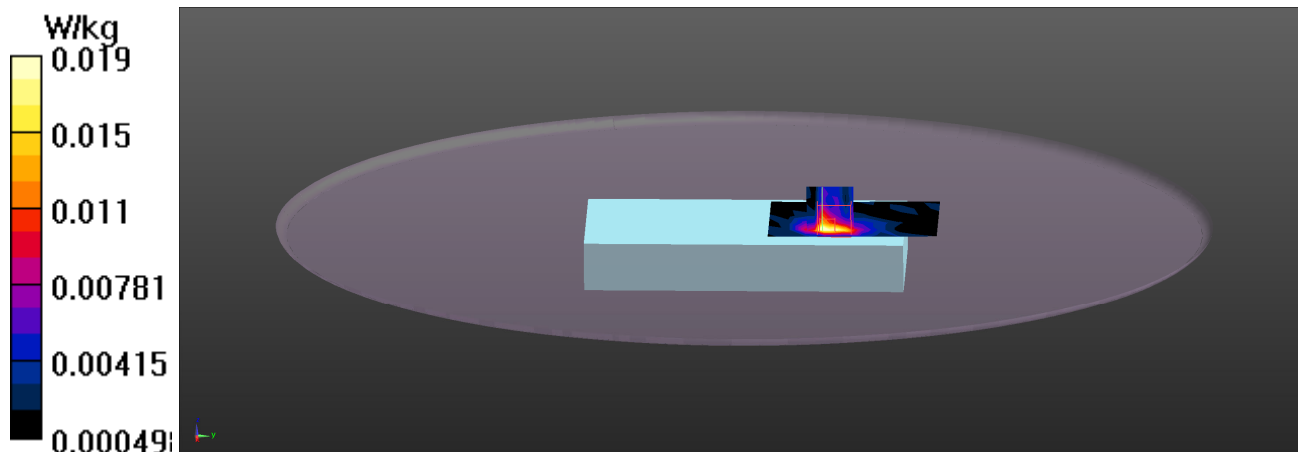
Peak SAR (extrapolated) = 0.0270 W/kg

**SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00611 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (&gt; 15 mm)

Ratio of SAR at M2 to SAR at M1 = 60.1%

Maximum value of SAR (measured) = 0.0226 W/kg



Test Laboratory: DEKRA

Date: 2024/10/18

**1\_LTE Band 2\_QPSK\_20M\_CH18700\_1RB\_0offset\_Back\_0mm\_ANT Main****DUT: BPM Pro 2; Type: WPM07**

Communication System: UID 0, LTE Band2; Frequency: 1860 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 38.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3698; ConvF(7.6, 7.6, 7.6) @ 1860 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.37 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.43 V/m; Power Drift = 0.09 dB

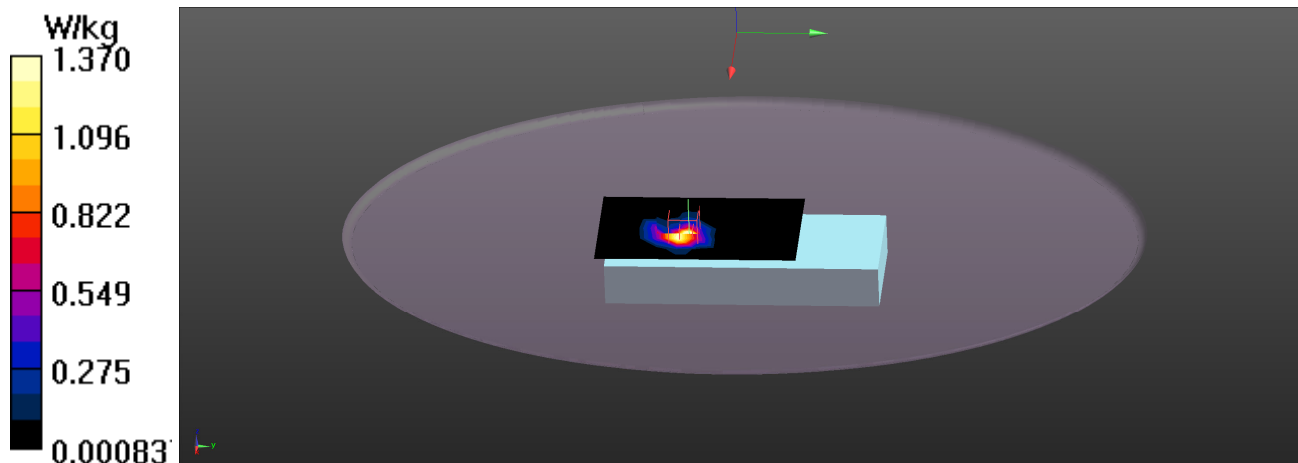
Peak SAR (extrapolated) = 2.42 W/kg

**SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.434 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 42%

Maximum value of SAR (measured) = 1.81 W/kg



Test Laboratory: DEKRA

Date: 2024/10/18

**2\_LTE Band 4\_QPSK\_20M\_CH20300\_1RB\_0offset\_Back\_0mm\_ANT Main****DUT: BPM Pro 2; Type: WPM07**

Communication System: UID 0, LTE Band4; Frequency: 1745 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 39.31$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3698; ConvF(7.91, 7.91, 7.91) @ 1745 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.13 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.239 V/m; Power Drift = 0.12 dB

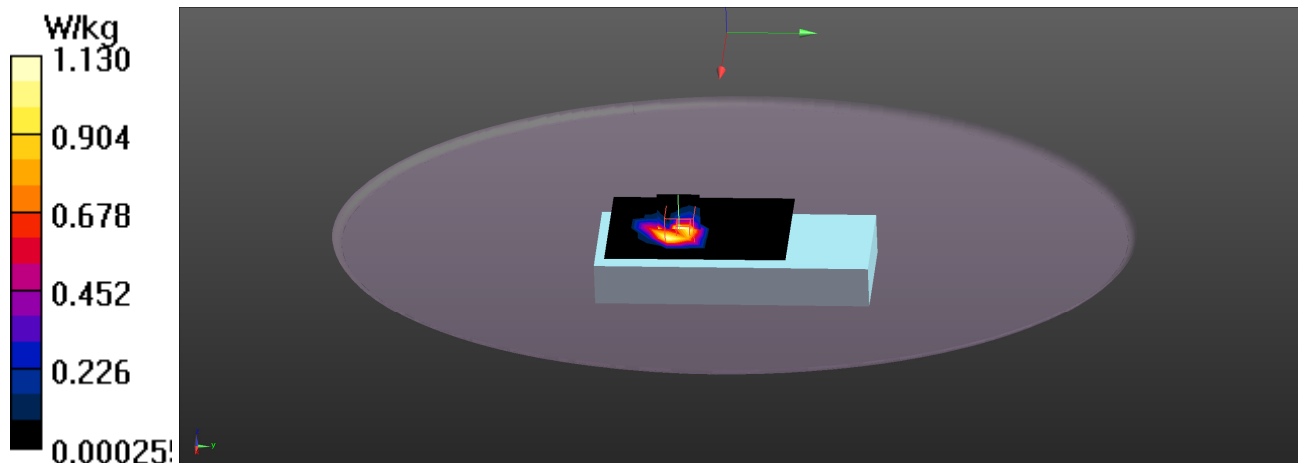
Peak SAR (extrapolated) = 2.12 W/kg

**SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.392 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 1.47 W/kg



Test Laboratory: DEKRA

Date: 2024/10/21

**35\_LTE Band 12\_QPSK\_10M\_CH23095\_1RB\_0offset\_Back\_0mm\_ANT Main****DUT: BPM Pro 2; Type: WPM07**

Communication System: UID 0, LTE Band12; Frequency: 707.5 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 707.5$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 42.65$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3698; ConvF(8.83, 8.83, 8.83) @ 707.5 MHz; Calibrated: 2024/10/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2024/10/21
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.143 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.98 V/m; Power Drift = -0.18 dB

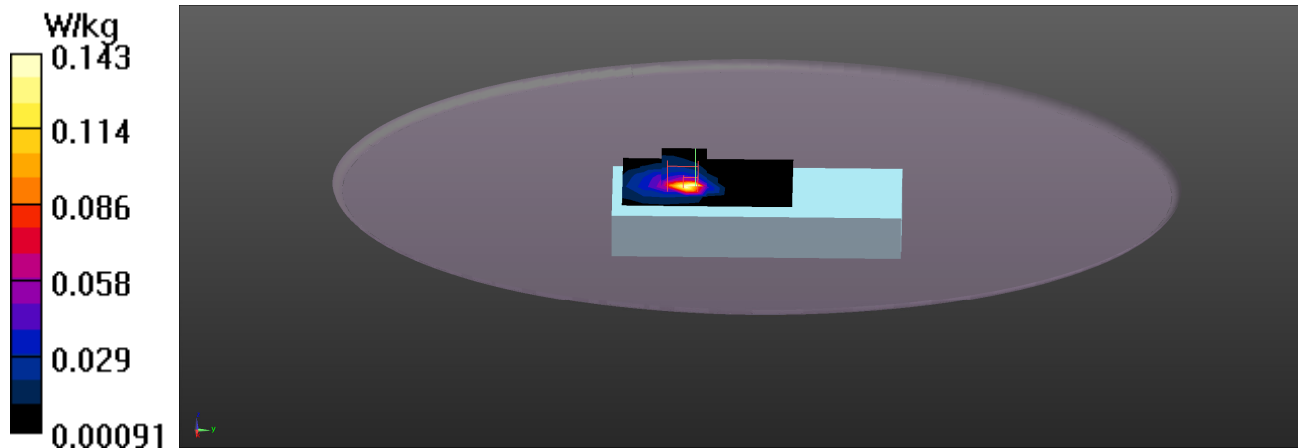
Peak SAR (extrapolated) = 0.283 W/kg

**SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.040 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 42.6%

Maximum value of SAR (measured) = 0.167 W/kg



Test Laboratory: DEKRA

Date: 2024/10/21

**36\_LTE Band 13\_QPSK\_10M\_CH23230\_1RB\_5offset\_Back\_0mm\_ANT Main****DUT: BPM Pro 2; Type: WPM07**

Communication System: UID 0, LTE Band13; Frequency: 782 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.92 \text{ S/m}$ ;  $\epsilon_r = 41.97$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3698; ConvF(8.83, 8.83, 8.83) @ 782 MHz; Calibrated: 2024/10/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2024/10/21
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (6x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 0.0924 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 10.81 V/m; Power Drift = -0.02 dB

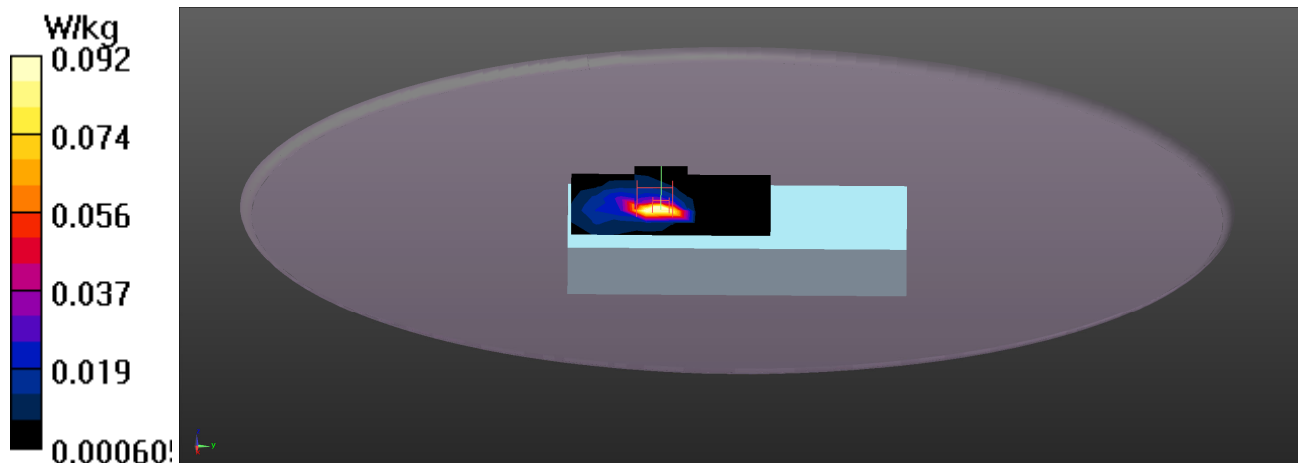
Peak SAR (extrapolated) = 0.193 W/kg

**SAR(1 g) = 0.061 W/kg; SAR(10 g) = 0.026 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 42.7%

Maximum value of SAR (measured) = 0.129 W/kg



## SAR measurement variability

Test Laboratory: DEKRA

Date: 2024/10/18

### 29\_LTE Band 2\_QPSK\_20M\_CH18700\_1RB\_0offset\_Back\_0mm\_ANT Main-verify

#### DUT: BPM Pro 2; Type: WPM07

Communication System: UID 0, LTE Band2; Frequency: 1860 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 38.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY Configuration:

- Probe: EX3DV4 - SN3698; ConvF(7.6, 7.6, 7.6) @ 1860 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.65 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.95 V/m; Power Drift = -0.02 dB

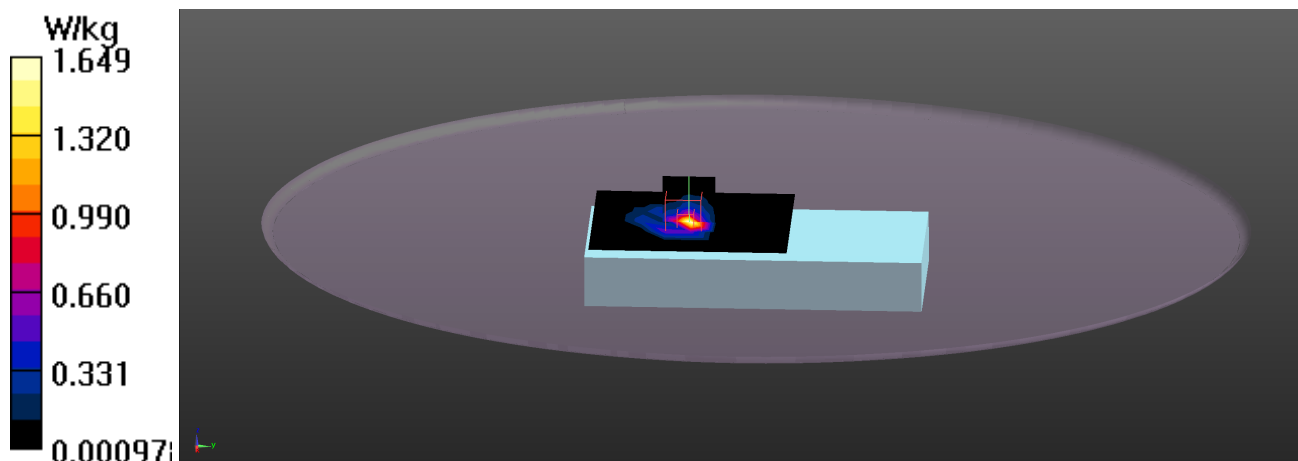
Peak SAR (extrapolated) = 2.32 W/kg

**SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.429 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 43.1%

Maximum value of SAR (measured) = 1.74 W/kg



Test Laboratory: DEKRA

Date: 2024/10/18

**34\_LTE Band 4\_QPSK\_20M\_CH20300\_1RB\_0offset\_Back\_0mm\_ANT Main-verify****DUT: BPM Pro 2; Type: WPM07**

Communication System: UID 0, LTE Band4; Frequency: 1745 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 39.31$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3698; ConvF(7.91, 7.91, 7.91) @ 1745 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: ELI 5.0; Type: QDOVA002AA; Serial: 1199
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/Flat/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.22 W/kg

**Configuration/Flat/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.69 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.378 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 40.7%

Maximum value of SAR (measured) = 1.35 W/kg

