

**Table 14.9: SAR Values (WCDMA 1700 - Head)**

| Ambient Temperature: 22.9°C |      |           |               |              | Liquid Temperature: 22.4°C |                          |                         |                         |                 |
|-----------------------------|------|-----------|---------------|--------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |      | Test Mode | Test Position | Figure No.   | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.  |           |               |              |                            |                          |                         |                         |                 |
| 1732.6                      | 1413 | RMC       | Left Touch    | <b>Fig.9</b> | 23.70                      | 24                       | <b>0.094</b>            | <b>0.10</b>             | 0.09            |
| 1732.6                      | 1413 | RMC       | Left Tilt     | /            | 23.70                      | 24                       | 0.027                   | 0.03                    | 0.01            |
| 1732.6                      | 1413 | RMC       | Right Touch   | /            | 23.70                      | 24                       | 0.053                   | 0.06                    | 0.01            |
| 1732.6                      | 1413 | RMC       | Right Tilt    | /            | 23.70                      | 24                       | 0.040                   | 0.04                    | 0.08            |

**Table 14.10: SAR Values (WCDMA 1700 - Body)**

| Ambient Temperature: 22.6°C          |      |           |               |            | Liquid Temperature: 22.1°C |                          |                         |                         |                 |
|--------------------------------------|------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |      | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.  |           |               |            |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |      |           |               |            |                            |                          |                         |                         |                 |
| 1732.6                               | 1413 | RMC       | Front         | /          | 23.70                      | 24                       | 0.182                   | 0.20                    | 0.09            |
| 1732.6                               | 1413 | RMC       | Rear          | /          | 23.70                      | 24                       | 1.120                   | 1.20                    | 0.01            |
| 1732.6                               | 1413 | RMC       | Left          | /          | 23.70                      | 24                       | 0.066                   | 0.07                    | 0.09            |
| 1732.6                               | 1413 | RMC       | Right         | /          | 23.70                      | 24                       | 0.022                   | 0.02                    | 0.09            |
| 1732.6                               | 1413 | RMC       | Bottom        | /          | 23.70                      | 24                       | 0.508                   | 0.54                    | 0.13            |
| 1752.6                               | 1513 | RMC       | Rear          | /          | 23.60                      | 24                       | 0.935                   | 1.03                    | 0.01            |
| 1712.4                               | 1312 | RMC       | Rear          | Fig.10     | 23.80                      | 24                       | 1.140                   | 1.19                    | 0.05            |

**Table 14.11: SAR Values (LTE Band 2 - Head)**

| Ambient Temperature: 22.7°C |       |           |               |               | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 1880                        | 18900 | 1RB_Mid   | Left Touch    | <b>Fig.11</b> | 23.74                      | 24                       | <b>0.062</b>            | <b>0.07</b>             | -0.09           |
| 1880                        | 18900 | 50RB_Mid  | Left Touch    | /             | 22.79                      | 23                       | 0.060                   | 0.06                    | -0.09           |
| 1880                        | 18900 | 1RB_Mid   | Left Tilt     | /             | 23.74                      | 24                       | 0.031                   | 0.03                    | 0.02            |
| 1880                        | 18900 | 50RB_Mid  | Left Tilt     | /             | 22.79                      | 23                       | 0.013                   | 0.01                    | 0.03            |
| 1880                        | 18900 | 1RB_Mid   | Right Touch   | /             | 23.74                      | 24                       | 0.037                   | 0.04                    | -0.09           |
| 1880                        | 18900 | 50RB_Mid  | Right Touch   | /             | 22.79                      | 23                       | 0.030                   | 0.03                    | 0.00            |
| 1880                        | 18900 | 1RB_Mid   | Right Tilt    | /             | 23.74                      | 24                       | 0.029                   | 0.03                    | 0.03            |
| 1880                        | 18900 | 50RB_Mid  | Right Tilt    | /             | 22.79                      | 23                       | 0.022                   | 0.02                    | 0.09            |

**Table 14.12: SAR Values (LTE Band 2 - Body)**

| Ambient Temperature: 22.4°C          |       |           |               |            | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|--------------------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.   |           |               |            |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |       |           |               |            |                            |                          |                         |                         |                 |
| 1880                                 | 18900 | 1RB_Mid   | Front         | /          | 23.74                      | 24                       | 0.122                   | 0.13                    | 0.05            |
| 1880                                 | 18900 | 50RB_Mid  | Front         | /          | 22.79                      | 23                       | 0.098                   | 0.10                    | -0.04           |
| 1880                                 | 18900 | 1RB_Mid   | Rear          | /          | 23.74                      | 24                       | 0.771                   | 0.82                    | -0.02           |
| 1880                                 | 18900 | 50RB_Mid  | Rear          | /          | 22.79                      | 23                       | 0.554                   | 0.58                    | 0.04            |
| 1880                                 | 18900 | 1RB_Mid   | Left          | /          | 23.74                      | 24                       | 0.050                   | 0.05                    | 0.02            |
| 1880                                 | 18900 | 50RB_Mid  | Left          | /          | 22.79                      | 23                       | 0.041                   | 0.04                    | 0.07            |
| 1880                                 | 18900 | 1RB_Mid   | Right         | /          | 23.74                      | 24                       | 0.017                   | 0.02                    | 0.05            |
| 1880                                 | 18900 | 50RB_Mid  | Right         | /          | 22.79                      | 23                       | 0.015                   | 0.02                    | 0.06            |
| 1880                                 | 18900 | 1RB_Mid   | Bottom        | /          | 23.74                      | 24                       | 0.325                   | 0.35                    | -0.04           |
| 1880                                 | 18900 | 50RB_Mid  | Bottom        | /          | 22.79                      | 23                       | 0.255                   | 0.27                    | 0.04            |
| 1900                                 | 19100 | 1RB_Mid   | Rear          | /          | 23.71                      | 24                       | 0.669                   | 0.72                    | 0.06            |
| 1860                                 | 18700 | 1RB_Mid   | Rear          | Fig.12     | 23.64                      | 24                       | 0.785                   | 0.85                    | 0.02            |
| 1880                                 | 18900 | 100RB     | Rear          | /          | 22.75                      | 23                       | 0.554                   | 0.59                    | -0.13           |

**Table 14.13: SAR Values (LTE Band 4 - Head)**

| Ambient Temperature: 22.9°C |       |           |               |               | Liquid Temperature: 22.4°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 1732.5                      | 20175 | 1RB_Mid   | Left Touch    | <b>Fig.13</b> | 23.16                      | 23.5                     | <b>0.078</b>            | <b>0.08</b>             | 0.06            |
| 1732.5                      | 20175 | 50RB_Low  | Left Touch    | /             | 22.22                      | 22.5                     | 0.060                   | 0.06                    | 0.08            |
| 1732.5                      | 20175 | 1RB_Mid   | Left Tilt     | /             | 23.16                      | 23.5                     | 0.018                   | 0.02                    | 0.09            |
| 1732.5                      | 20175 | 50RB_Low  | Left Tilt     | /             | 22.22                      | 22.5                     | 0.017                   | 0.02                    | 0.03            |
| 1732.5                      | 20175 | 1RB_Mid   | Right Touch   | /             | 23.16                      | 23.5                     | 0.040                   | 0.04                    | 0.05            |
| 1732.5                      | 20175 | 50RB_Low  | Right Touch   | /             | 22.22                      | 22.5                     | 0.028                   | 0.03                    | 0.09            |
| 1732.5                      | 20175 | 1RB_Mid   | Right Tilt    | /             | 23.16                      | 23.5                     | 0.017                   | 0.02                    | 0.02            |
| 1732.5                      | 20175 | 50RB_Low  | Right Tilt    | /             | 22.22                      | 22.5                     | 0.012                   | 0.01                    | -0.03           |

**Table 14.14: SAR Values (LTE Band 4 - Body)**

| Ambient Temperature: 22.6°C          |       |           |               |            | Liquid Temperature: 22.1°C |                          |                         |                         |                 |
|--------------------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.   |           |               |            |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |       |           |               |            |                            |                          |                         |                         |                 |
| 1732.5                               | 20175 | 1RB_Low   | Front         | /          | 23.16                      | 23.5                     | 0.167                   | 0.18                    | -0.09           |
| 1732.5                               | 20175 | 50RB_Low  | Front         | /          | 22.22                      | 22.5                     | 0.127                   | 0.14                    | 0.13            |
| 1732.5                               | 20175 | 1RB_Low   | Rear          | /          | 23.16                      | 23.5                     | 0.850                   | 0.92                    | -0.01           |
| 1732.5                               | 20175 | 50RB_Low  | Rear          | /          | 22.22                      | 22.5                     | 0.669                   | 0.71                    | -0.09           |
| 1732.5                               | 20175 | 1RB_Low   | Left          | /          | 23.16                      | 23.5                     | 0.078                   | 0.08                    | -0.13           |
| 1732.5                               | 20175 | 50RB_Low  | Left          | /          | 22.22                      | 22.5                     | 0.060                   | 0.06                    | 0.02            |
| 1732.5                               | 20175 | 1RB_Low   | Right         | /          | 23.16                      | 23.5                     | 0.110                   | 0.12                    | 0.06            |
| 1732.5                               | 20175 | 50RB_Low  | Right         | /          | 22.22                      | 22.5                     | 0.100                   | 0.11                    | -0.04           |
| 1732.5                               | 20175 | 1RB_Low   | Bottom        | /          | 23.16                      | 23.5                     | 0.437                   | 0.47                    | -0.07           |
| 1732.5                               | 20175 | 50RB_Low  | Bottom        | /          | 22.22                      | 22.5                     | 0.364                   | 0.39                    | 0.05            |
| 1745                                 | 20300 | 1RB_Mid   | Rear          | /          | 23.07                      | 23.5                     | 0.820                   | 0.91                    | 0.09            |
| 1720                                 | 20050 | 1RB_Mid   | Rear          | Fig.14     | 23.23                      | 23.5                     | 0.941                   | 1.00                    | 0.08            |
| 1732.5                               | 20175 | 100RB     | Rear          | /          | 22.15                      | 22.5                     | 0.663                   | 0.72                    | 0.14            |

**Table 14.15: SAR Values (LTE Band 5 - Head)**

| Ambient Temperature: 22.5°C |       |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 836.5                       | 20525 | 1RB_Mid   | Left Touch    | /             | 23.20                      | 23.5                     | 0.072                   | 0.08                    | 0.09            |
| 836.5                       | 20525 | 25RB_High | Left Touch    | /             | 22.16                      | 22.5                     | 0.057                   | 0.06                    | -0.02           |
| 836.5                       | 20525 | 1RB_Mid   | Left Tilt     | /             | 23.20                      | 23.5                     | 0.025                   | 0.03                    | 0.08            |
| 836.5                       | 20525 | 25RB_High | Left Tilt     | /             | 22.16                      | 22.5                     | 0.025                   | 0.03                    | 0.05            |
| 836.5                       | 20525 | 1RB_Mid   | Right Touch   | <b>Fig.15</b> | 23.20                      | 23.5                     | <b>0.086</b>            | <b>0.09</b>             | 0.06            |
| 836.5                       | 20525 | 25RB_High | Right Touch   | /             | 22.16                      | 22.5                     | 0.063                   | 0.07                    | 0.02            |
| 836.5                       | 20525 | 1RB_Mid   | Right Tilt    | /             | 23.20                      | 23.5                     | 0.051                   | 0.05                    | 0.05            |
| 836.5                       | 20525 | 25RB_High | Right Tilt    | /             | 22.16                      | 22.5                     | 0.038                   | 0.04                    | 0.08            |

**Table 14.16: SAR Values (LTE Band 5 - Body)**

| Ambient Temperature: 22.8°C          |       |           |               |            | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|--------------------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.   |           |               |            |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |       |           |               |            |                            |                          |                         |                         |                 |
| 836.5                                | 20525 | 1RB_Mid   | Front         | /          | 23.20                      | 23.5                     | 0.067                   | 0.07                    | -0.04           |
| 836.5                                | 20525 | 25RB_High | Front         | /          | 22.16                      | 22.5                     | 0.052                   | 0.06                    | 0.05            |
| 836.5                                | 20525 | 1RB_Mid   | Rear          | Fig.16     | 23.20                      | 23.5                     | 0.140                   | 0.15                    | 0.02            |
| 836.5                                | 20525 | 25RB_High | Rear          | /          | 22.16                      | 22.5                     | 0.091                   | 0.10                    | -0.04           |
| 836.5                                | 20525 | 1RB_Mid   | Left          | /          | 23.20                      | 23.5                     | 0.019                   | 0.02                    | 0.04            |
| 836.5                                | 20525 | 25RB_High | Left          | /          | 22.16                      | 22.5                     | 0.014                   | 0.02                    | 0.06            |
| 836.5                                | 20525 | 1RB_Mid   | Right         | /          | 23.20                      | 23.5                     | 0.017                   | 0.02                    | -0.13           |
| 836.5                                | 20525 | 25RB_High | Right         | /          | 22.16                      | 22.5                     | 0.012                   | 0.01                    | 0.03            |
| 836.5                                | 20525 | 1RB_Mid   | Bottom        | /          | 23.20                      | 23.5                     | 0.031                   | 0.03                    | 0.04            |
| 836.5                                | 20525 | 25RB_High | Bottom        | /          | 22.16                      | 22.5                     | 0.024                   | 0.03                    | 0.17            |

**Table 14.17: SAR Values (LTE Band 7 - Head)**

| Ambient Temperature: 22.2°C |       |           |               |               | Liquid Temperature: 21.7°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 2535                        | 21100 | 1RB_Mid   | Left Touch    | <b>Fig.17</b> | 22.79                      | 23.5                     | <b>0.185</b>            | <b>0.22</b>             | 0.04            |
| 2535                        | 21100 | 50RB_Mid  | Left Touch    | /             | 21.85                      | 22.5                     | 0.173                   | 0.20                    | 0.00            |
| 2535                        | 21100 | 1RB_Mid   | Left Tilt     | /             | 22.79                      | 23.5                     | 0.062                   | 0.07                    | 0.05            |
| 2535                        | 21100 | 50RB_Mid  | Left Tilt     | /             | 21.85                      | 22.5                     | 0.041                   | 0.05                    | 0.06            |
| 2535                        | 21100 | 1RB_Mid   | Right Touch   | /             | 22.79                      | 23.5                     | 0.135                   | 0.16                    | 0.09            |
| 2535                        | 21100 | 50RB_Mid  | Right Touch   | /             | 21.85                      | 22.5                     | 0.111                   | 0.13                    | 0.00            |
| 2535                        | 21100 | 1RB_Mid   | Right Tilt    | /             | 22.79                      | 23.5                     | 0.076                   | 0.09                    | 0.05            |
| 2535                        | 21100 | 50RB_Mid  | Right Tilt    | /             | 21.85                      | 22.5                     | 0.054                   | 0.06                    | 0.12            |

**Table 14.18: SAR Values (LTE Band 7 - Body)**

| Ambient Temperature: 22.2°C          |       |           |               |                   | Liquid Temperature: 21.7°C |                          |                         |                         |                 |
|--------------------------------------|-------|-----------|---------------|-------------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |       | Test Mode | Test Position | Figure No. / Note | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.   |           |               |                   |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |       |           |               |                   |                            |                          |                         |                         |                 |
| 2535                                 | 21100 | 1RB_Mid   | Front         | /                 | 22.79                      | 23.5                     | 0.112                   | 0.13                    | -0.13           |
| 2535                                 | 21100 | 50RB_Mid  | Front         | /                 | 21.85                      | 22.5                     | 0.091                   | 0.11                    | -0.05           |
| 2535                                 | 21100 | 1RB_Mid   | Rear          | /                 | 22.79                      | 23.5                     | 0.688                   | 0.81                    | 0.01            |
| 2535                                 | 21100 | 50RB_Mid  | Rear          | /                 | 21.85                      | 22.5                     | 0.539                   | 0.63                    | 0.06            |
| 2535                                 | 21100 | 1RB_Mid   | Left          | /                 | 22.79                      | 23.5                     | 0.180                   | 0.21                    | -0.05           |
| 2535                                 | 21100 | 50RB_Mid  | Left          | /                 | 21.85                      | 22.5                     | 0.143                   | 0.17                    | -0.11           |
| 2535                                 | 21100 | 1RB_Mid   | Right         | /                 | 22.79                      | 23.5                     | 0.015                   | 0.02                    | 0.02            |
| 2535                                 | 21100 | 50RB_Mid  | Right         | /                 | 21.85                      | 22.5                     | 0.012                   | 0.01                    | 0.07            |
| 2535                                 | 21100 | 1RB_Mid   | Bottom        | /                 | 22.79                      | 23.5                     | 0.094                   | 0.11                    | -0.07           |
| 2535                                 | 21100 | 50RB_Mid  | Bottom        | /                 | 21.85                      | 22.5                     | 0.079                   | 0.09                    | 0.15            |
| 2560                                 | 21350 | 1RB_Mid   | Rear          | /                 | 22.84                      | 23.5                     | 0.596                   | 0.69                    | 0.07            |
| 2510                                 | 20850 | 1RB_Mid   | Rear          | Fig.18            | 22.87                      | 23.5                     | 0.897                   | 1.04                    | 0.09            |
| 2535                                 | 21100 | 100RB     | Rear          | /                 | 21.78                      | 22.5                     | 0.546                   | 0.64                    | -0.10           |

**Table 14.19: SAR Values (LTE Band 12 - Head)**

| Ambient Temperature: 22.5°C |       |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 707.5                       | 23095 | 1RB_Mid   | Left Touch    | <b>Fig.19</b> | 22.83                      | 23.5                     | <b>0.030</b>            | <b>0.03</b>             | 0.09            |
| 707.5                       | 23095 | 25RB_Low  | Left Touch    | /             | 21.89                      | 22.5                     | 0.029                   | 0.03                    | 0.09            |
| 707.5                       | 23095 | 1RB_Mid   | Left Tilt     | /             | 22.83                      | 23.5                     | 0.024                   | 0.03                    | 0.05            |
| 707.5                       | 23095 | 25RB_Low  | Left Tilt     | /             | 21.89                      | 22.5                     | 0.021                   | 0.02                    | 0.03            |
| 707.5                       | 23095 | 1RB_Mid   | Right Touch   | /             | 22.83                      | 23.5                     | 0.026                   | 0.03                    | 0.06            |
| 707.5                       | 23095 | 25RB_Low  | Right Touch   | /             | 21.89                      | 22.5                     | 0.022                   | 0.02                    | -0.09           |
| 707.5                       | 23095 | 1RB_Mid   | Right Tilt    | /             | 22.83                      | 23.5                     | 0.022                   | 0.03                    | 0.09            |
| 707.5                       | 23095 | 25RB_Low  | Right Tilt    | /             | 21.89                      | 22.5                     | 0.019                   | 0.02                    | 0.02            |

**Table 14.20: SAR Values (LTE Band 12 - Body)**

| Ambient Temperature: 22.8°C          |       |           |               |            | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|--------------------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.   |           |               |            |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |       |           |               |            |                            |                          |                         |                         |                 |
| 707.5                                | 23095 | 1RB_Mid   | Front         | /          | 22.83                      | 23.5                     | 0.031                   | 0.04                    | -0.09           |
| 707.5                                | 23095 | 25RB_Low  | Front         | /          | 21.89                      | 22.5                     | 0.026                   | 0.03                    | 0.04            |
| 707.5                                | 23095 | 1RB_Mid   | Rear          | Fig.20     | 22.83                      | 23.5                     | 0.091                   | 0.11                    | -0.02           |
| 707.5                                | 23095 | 25RB_Low  | Rear          | /          | 21.89                      | 22.5                     | 0.078                   | 0.09                    | 0.05            |
| 707.5                                | 23095 | 1RB_Mid   | Left          | /          | 22.83                      | 23.5                     | 0.012                   | 0.01                    | 0.02            |
| 707.5                                | 23095 | 25RB_Low  | Left          | /          | 21.89                      | 22.5                     | 0.010                   | 0.01                    | 0.05            |
| 707.5                                | 23095 | 1RB_Mid   | Right         | /          | 22.83                      | 23.5                     | 0.003                   | < 0.01                  | 0.01            |
| 707.5                                | 23095 | 25RB_Low  | Right         | /          | 21.89                      | 22.5                     | 0.003                   | < 0.01                  | 0.08            |
| 707.5                                | 23095 | 1RB_Mid   | Bottom        | /          | 22.83                      | 23.5                     | 0.008                   | 0.01                    | -0.04           |
| 707.5                                | 23095 | 25RB_Low  | Bottom        | /          | 21.89                      | 22.5                     | 0.007                   | 0.01                    | 0.05            |

**Table 14.21: SAR Values (LTE Band 17 - Head)**

| Ambient Temperature: 22.5°C |       |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 710                         | 23790 | 1RB_Mid   | Left Touch    | <b>Fig.21</b> | 22.68                      | 23.5                     | <b>0.029</b>            | <b>0.03</b>             | 0.09            |
| 710                         | 23790 | 25RB_Low  | Left Touch    | /             | 21.80                      | 22.5                     | 0.022                   | 0.03                    | 0.07            |
| 710                         | 23790 | 1RB_Mid   | Left Tilt     | /             | 22.68                      | 23.5                     | 0.023                   | 0.03                    | 0.09            |
| 710                         | 23790 | 25RB_Low  | Left Tilt     | /             | 21.80                      | 22.5                     | 0.018                   | 0.02                    | 0.07            |
| 710                         | 23790 | 1RB_Mid   | Right Touch   | /             | 22.68                      | 23.5                     | 0.025                   | 0.03                    | 0.06            |
| 710                         | 23790 | 25RB_Low  | Right Touch   | /             | 21.80                      | 22.5                     | 0.019                   | 0.02                    | 0.00            |
| 710                         | 23790 | 1RB_Mid   | Right Tilt    | /             | 22.68                      | 23.5                     | 0.014                   | 0.02                    | 0.08            |
| 710                         | 23790 | 25RB_Low  | Right Tilt    | /             | 21.80                      | 22.5                     | 0.011                   | 0.01                    | 0.05            |

**Table 14.22: SAR Values (LTE Band 17 - Body)**

| Ambient Temperature: 22.8°C          |       |           |               |            | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|--------------------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.   |           |               |            |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |       |           |               |            |                            |                          |                         |                         |                 |
| 710                                  | 23790 | 1RB_Mid   | Front         | /          | 22.68                      | 23.5                     | 0.030                   | 0.04                    | 0.06            |
| 710                                  | 23790 | 25RB_Low  | Front         | /          | 21.80                      | 22.5                     | 0.024                   | 0.03                    | 0.05            |
| 710                                  | 23790 | 1RB_Mid   | Rear          | Fig.22     | 22.68                      | 23.5                     | 0.089                   | 0.11                    | 0.03            |
| 710                                  | 23790 | 25RB_Low  | Rear          | /          | 21.80                      | 22.5                     | 0.069                   | 0.08                    | 0.03            |
| 710                                  | 23790 | 1RB_Mid   | Left          | /          | 22.68                      | 23.5                     | 0.011                   | 0.01                    | 0.09            |
| 710                                  | 23790 | 25RB_Low  | Left          | /          | 21.80                      | 22.5                     | 0.008                   | 0.01                    | 0.05            |
| 710                                  | 23790 | 1RB_Mid   | Right         | /          | 22.68                      | 23.5                     | 0.003                   | < 0.01                  | 0.17            |
| 710                                  | 23790 | 25RB_Low  | Right         | /          | 21.80                      | 22.5                     | 0.002                   | < 0.01                  | -0.04           |
| 710                                  | 23790 | 1RB_Mid   | Bottom        | /          | 22.68                      | 23.5                     | 0.008                   | 0.01                    | 0.06            |
| 710                                  | 23790 | 25RB_Low  | Bottom        | /          | 21.80                      | 22.5                     | 0.007                   | 0.01                    | -0.04           |

**Table 14.23: SAR Values (LTE Band 38 - Head)**

| Ambient Temperature: 22.2°C |       |           |               |               | Liquid Temperature: 21.7°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 2595                        | 38000 | 1RB_Mid   | Left Touch    | <b>Fig.23</b> | 22.59                      | 23.5                     | <b>0.102</b>            | <b>0.13</b>             | -0.09           |
| 2595                        | 38000 | 50RB_Low  | Left Touch    | /             | 21.56                      | 22.5                     | 0.100                   | 0.12                    | 0.00            |
| 2595                        | 38000 | 1RB_Mid   | Left Tilt     | /             | 22.59                      | 23.5                     | 0.037                   | 0.05                    | 0.01            |
| 2595                        | 38000 | 50RB_Low  | Left Tilt     | /             | 21.56                      | 22.5                     | 0.016                   | 0.02                    | 0.03            |
| 2595                        | 38000 | 1RB_Mid   | Right Touch   | /             | 22.59                      | 23.5                     | 0.068                   | 0.08                    | 0.09            |
| 2595                        | 38000 | 50RB_Low  | Right Touch   | /             | 21.56                      | 22.5                     | 0.050                   | 0.06                    | 0.00            |
| 2595                        | 38000 | 1RB_Mid   | Right Tilt    | /             | 22.59                      | 23.5                     | 0.044                   | 0.05                    | 0.05            |
| 2595                        | 38000 | 50RB_Low  | Right Tilt    | /             | 21.56                      | 22.5                     | 0.031                   | 0.04                    | 0.11            |

**Table 14.24: SAR Values (LTE Band 38 - Body)**

| Ambient Temperature: 22.2°C          |       |           |               |                   | Liquid Temperature: 21.7°C |                          |                         |                         |                 |
|--------------------------------------|-------|-----------|---------------|-------------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |       | Test Mode | Test Position | Figure No. / Note | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.   |           |               |                   |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |       |           |               |                   |                            |                          |                         |                         |                 |
| 2595                                 | 38000 | 1RB_Mid   | Front         | /                 | 22.59                      | 23.5                     | 0.055                   | 0.07                    | 0.09            |
| 2595                                 | 38000 | 50RB_Low  | Front         | /                 | 21.56                      | 22.5                     | 0.045                   | 0.06                    | 0.02            |
| 2595                                 | 38000 | 1RB_Mid   | Rear          | Fig.24            | 22.59                      | 23.5                     | 0.403                   | 0.50                    | 0.09            |
| 2595                                 | 38000 | 50RB_Low  | Rear          | /                 | 21.56                      | 22.5                     | 0.278                   | 0.35                    | 0.00            |
| 2595                                 | 38000 | 1RB_Mid   | Left          | /                 | 22.59                      | 23.5                     | 0.102                   | 0.13                    | 0.04            |
| 2595                                 | 38000 | 50RB_Low  | Left          | /                 | 21.56                      | 22.5                     | 0.083                   | 0.10                    | 0.08            |
| 2595                                 | 38000 | 1RB_Mid   | Right         | /                 | 22.59                      | 23.5                     | 0.009                   | 0.01                    | -0.10           |
| 2595                                 | 38000 | 50RB_Low  | Right         | /                 | 21.56                      | 22.5                     | 0.003                   | 0.00                    | -0.05           |
| 2595                                 | 38000 | 1RB_Mid   | Bottom        | /                 | 22.59                      | 23.5                     | 0.037                   | 0.05                    | 0.05            |
| 2595                                 | 38000 | 50RB_Low  | Bottom        | /                 | 21.56                      | 22.5                     | 0.029                   | 0.04                    | -0.13           |

**Table 14.25: SAR Values (LTE Band 66 - Head)**

| Ambient Temperature: 22.2°C |        |           |               |               | Liquid Temperature: 21.7°C |                          |                         |                         |                 |
|-----------------------------|--------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |        | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.    |           |               |               |                            |                          |                         |                         |                 |
| 1745                        | 132322 | 1RB_Mid   | Left Touch    | <b>Fig.25</b> | 23.69                      | 24                       | <b>0.078</b>            | <b>0.08</b>             | 0.05            |
| 1745                        | 132322 | 50RB_Mid  | Left Touch    | /             | 22.70                      | 23                       | 0.060                   | 0.06                    | -0.13           |
| 1745                        | 132322 | 1RB_Low   | Left Tilt     | /             | 23.69                      | 24                       | 0.035                   | 0.04                    | -0.04           |
| 1745                        | 132322 | 50RB_Low  | Left Tilt     | /             | 22.70                      | 23                       | 0.026                   | 0.03                    | -0.07           |
| 1745                        | 132322 | 1RB_Low   | Right Touch   | /             | 23.69                      | 24                       | 0.053                   | 0.06                    | -0.04           |
| 1745                        | 132322 | 50RB_Low  | Right Touch   | /             | 22.70                      | 23                       | 0.042                   | 0.05                    | 0.05            |
| 1745                        | 132322 | 1RB_Low   | Right Tilt    | /             | 23.69                      | 24                       | 0.028                   | 0.03                    | -0.10           |
| 1745                        | 132322 | 50RB_Low  | Right Tilt    | /             | 22.70                      | 23                       | 0.025                   | 0.03                    | 0.08            |

**Table 14.26: SAR Values (LTE Band 66 - Body)**

| Ambient Temperature: 22.2°C          |        |           |               |                   | Liquid Temperature: 21.7°C |                          |                         |                         |                 |
|--------------------------------------|--------|-----------|---------------|-------------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                            |        | Test Mode | Test Position | Figure No. / Note | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                                  | Ch.    |           |               |                   |                            |                          |                         |                         |                 |
| Hotspot / Body Worn Test Data (10mm) |        |           |               |                   |                            |                          |                         |                         |                 |
| 1745                                 | 132322 | 1RB_Mid   | Front         | /                 | 23.69                      | 24                       | 0.136                   | 0.15                    | 0.12            |
| 1745                                 | 132322 | 50RB_Mid  | Front         | /                 | 22.70                      | 23                       | 0.108                   | 0.12                    | 0.05            |
| 1745                                 | 132322 | 1RB_Mid   | Rear          | /                 | 23.69                      | 24                       | 0.960                   | 1.03                    | -0.06           |
| 1745                                 | 132322 | 50RB_Mid  | Rear          | /                 | 22.70                      | 23                       | 0.754                   | 0.81                    | -0.06           |
| 1745                                 | 132322 | 1RB_Mid   | Left          | /                 | 23.69                      | 24                       | 0.067                   | 0.07                    | 0.04            |
| 1745                                 | 132322 | 50RB_Mid  | Left          | /                 | 22.70                      | 23                       | 0.054                   | 0.06                    | 0.06            |
| 1745                                 | 132322 | 1RB_Mid   | Right         | /                 | 23.69                      | 24                       | 0.084                   | 0.09                    | 0.05            |
| 1745                                 | 132322 | 50RB_Mid  | Right         | /                 | 22.70                      | 23                       | 0.007                   | 0.01                    | 0.08            |
| 1745                                 | 132322 | 1RB_Mid   | Bottom        | /                 | 23.69                      | 24                       | 0.370                   | 0.40                    | -0.15           |
| 1745                                 | 132322 | 50RB_Mid  | Bottom        | /                 | 22.70                      | 23                       | 0.311                   | 0.33                    | -0.07           |
| 1770                                 | 132572 | 1RB_Mid   | Rear          | /                 | 23.75                      | 24                       | 0.758                   | 0.80                    | -0.13           |
| 1720                                 | 132072 | 1RB_Mid   | Rear          | Fig.26            | 23.67                      | 24                       | 1.020                   | 1.10                    | 0.03            |
| 1770                                 | 132572 | 50RB_Mid  | Rear          | /                 | 22.80                      | 23                       | 0.617                   | 0.65                    | 0.07            |
| 1720                                 | 132072 | 50RB_Mid  | Rear          | /                 | 22.57                      | 23                       | 0.696                   | 0.77                    | 0.06            |
| 1745                                 | 132322 | 100RB     | Rear          | /                 | 22.61                      | 23                       | 0.666                   | 0.73                    | -0.10           |

## 14.2 WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

**Table 14.27: SAR Values (WLAN 2.4G - Head)**

| Ambient Temperature: 22.6°C |     |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------|-----|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |     | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch. |           |               |               |                            |                          |                         |                         |                 |
| 2437                        | 6   | 802.11 b  | Left Touch    | <b>Fig.27</b> | 13.49                      | 14                       | <b>1.070</b>            | <b>1.20</b>             | 0.06            |
| 2437                        | 6   | 802.11 b  | Left Tilt     | /             | 13.49                      | 14                       | 1.010                   | 1.14                    | -0.03           |
| 2437                        | 6   | 802.11 b  | Right Touch   | /             | 13.49                      | 14                       | 0.470                   | 0.53                    | -0.06           |
| 2437                        | 6   | 802.11 b  | Right Tilt    | /             | 13.49                      | 14                       | 0.436                   | 0.49                    | 0.01            |
| 2462                        | 11  | 802.11 b  | Left Touch    | /             | 13.45                      | 14                       | 0.771                   | 0.88                    | 0.16            |
| 2462                        | 11  | 802.11 b  | Left Tilt     | /             | 13.45                      | 14                       | 0.706                   | 0.80                    | -0.03           |

Note1: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 14.28: SAR Values (WLAN - Head) – 802.11b 1Mbps (Scaled Reported SAR)**

| Frequency |     | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
|-----------|-----|---------------|--------------------|---------------------|-------------------------|--------------------------------|
| MHz       | Ch. |               |                    |                     |                         |                                |
| 2437      | 6   | Left Touch    | 100%               | 100%                | 1.20                    | <b>1.20</b>                    |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

**Table 14.29: SAR Values (WLAN 2.4G - Body)**

| Ambient Temperature: 22.6°C |     |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------|-----|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |     | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch. |           |               |               |                            |                          |                         |                         |                 |
| 2437                        | 6   | 802.11 b  | Front         | <b>Fig.28</b> | 13.49                      | 14                       | <b>0.182</b>            | <b>0.20</b>             | 0.08            |
| 2437                        | 6   | 802.11 b  | Rear          | /             | 13.49                      | 14                       | 0.056                   | 0.06                    | -0.08           |
| 2437                        | 6   | 802.11 b  | Right         | /             | 13.49                      | 14                       | 0.014                   | 0.02                    | -0.09           |
| 2437                        | 6   | 802.11 b  | Top           | /             | 13.49                      | 14                       | 0.158                   | 0.18                    | 0.04            |

Note1: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 14.30: SAR Values (WLAN - Body) – 802.11b 1Mbps (Scaled Reported SAR)**

| Ambient Temperature: 22.6°C |     |               |                    |                     | Liquid Temperature: 22.0°C |                                |
|-----------------------------|-----|---------------|--------------------|---------------------|----------------------------|--------------------------------|
| Frequency                   |     | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg)    | Scaled reported SAR (1g)(W/kg) |
| MHz                         | Ch. |               |                    |                     |                            |                                |
| 2437                        | 6   | Front         | 100%               | 100%                | 0.120                      | <b>0.120</b>                   |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

### 14.3 WLAN Evaluation for 5G

**Table 14.31: SAR Values (WLAN 5G - Head)**

| Ambient Temperature: 22.5°C |     |           |               |            | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------|-----|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |     | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch. |           |               |            |                            |                          |                         |                         |                 |
| U-NII-2A                    |     |           |               |            |                            |                          |                         |                         |                 |
| 5280                        | 56  | 802.11 a  | Left Touch    | /          | 13.23                      | 14                       | 0.447                   | 0.53                    | 0.05            |
| 5280                        | 56  | 802.11 a  | Left Tilt     | /          | 13.23                      | 14                       | 0.438                   | 0.52                    | 0.06            |
| 5280                        | 56  | 802.11 a  | Right Touch   | /          | 13.23                      | 14                       | 0.351                   | 0.42                    | -0.04           |
| 5280                        | 56  | 802.11 a  | Right Tilt    | /          | 13.23                      | 14                       | 0.376                   | 0.45                    | 0.07            |
| U-NII-2C                    |     |           |               |            |                            |                          |                         |                         |                 |
| 5500                        | 100 | 802.11 a  | Left Touch    | /          | 12.46                      | 13                       | 0.481                   | 0.54                    | 0.14            |
| 5500                        | 100 | 802.11 a  | Left Tilt     | /          | 12.46                      | 13                       | 0.480                   | 0.54                    | 0.14            |
| 5500                        | 100 | 802.11 a  | Right Touch   | /          | 12.46                      | 13                       | 0.298                   | 0.34                    | 0.03            |
| 5500                        | 100 | 802.11 a  | Right Tilt    | /          | 12.46                      | 13                       | 0.317                   | 0.36                    | 0.01            |
| U-NII-3                     |     |           |               |            |                            |                          |                         |                         |                 |
| 5785                        | 157 | 802.11 a  | Left Touch    | Fig.29     | 11.75                      | 13                       | 0.522                   | 0.70                    | 0.09            |
| 5785                        | 157 | 802.11 a  | Left Tilt     | /          | 11.75                      | 13                       | 0.457                   | 0.61                    | 0.09            |
| 5785                        | 157 | 802.11 a  | Right Touch   | /          | 11.75                      | 13                       | 0.329                   | 0.44                    | -0.08           |
| 5785                        | 157 | 802.11 a  | Right Tilt    | /          | 11.75                      | 13                       | 0.314                   | 0.42                    | 0.09            |

Note1: U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is  $\leq 1.2$ W/kg, SAR is not required for U-NII-1 band.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 14.32: SAR Values (WLAN 5G - Head) – (Scaled Reported SAR)**

| Frequency |     | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
|-----------|-----|---------------|--------------------|---------------------|-------------------------|--------------------------------|
| MHz       | Ch. |               |                    |                     |                         |                                |
| 5785      | 157 | Right Tilt    | 100%               | 100%                | 0.70                    | <b>0.70</b>                    |

**Table 14.33: SAR Values (WLAN 5G - Body)**

| Ambient Temperature: 22.5°C |     |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------|-----|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |     | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch. |           |               |               |                            |                          |                         |                         |                 |
| U-NII-2A                    |     |           |               |               |                            |                          |                         |                         |                 |
| 5280                        | 56  | 802.11 a  | Front         | /             | 13.23                      | 14                       | 0.079                   | 0.09                    | -0.09           |
| 5280                        | 56  | 802.11 a  | Rear          | /             | 13.23                      | 14                       | <b>0.143</b>            | 0.17                    | 0.03            |
| 5280                        | 56  | 802.11 a  | Right         | /             | 13.23                      | 14                       | 0.078                   | 0.09                    | 0.04            |
| 5280                        | 56  | 802.11 a  | Top           | /             | 13.23                      | 14                       | 0.046                   | 0.06                    | 0.01            |
| U-NII-2C                    |     |           |               |               |                            |                          |                         |                         |                 |
| 5500                        | 100 | 802.11 a  | Front         | /             | 12.46                      | 13                       | 0.070                   | 0.08                    | 0.09            |
| 5500                        | 100 | 802.11 a  | Rear          | /             | 12.46                      | 13                       | <b>0.134</b>            | 0.15                    | -0.09           |
| 5500                        | 100 | 802.11 a  | Right         | /             | 12.46                      | 13                       | 0.113                   | 0.13                    | 0.00            |
| 5500                        | 100 | 802.11 a  | Top           | /             | 12.46                      | 13                       | 0.111                   | 0.13                    | 0.03            |
| U-NII-3                     |     |           |               |               |                            |                          |                         |                         |                 |
| 5785                        | 157 | 802.11 a  | Front         | /             | 11.75                      | 13                       | 0.047                   | 0.06                    | 0.01            |
| 5785                        | 157 | 802.11 a  | Rear          | <b>Fig.30</b> | 11.75                      | 13                       | <b>0.180</b>            | <b>0.24</b>             | 0.00            |
| 5785                        | 157 | 802.11 a  | Right         | /             | 11.75                      | 13                       | 0.132                   | 0.18                    | 0.04            |
| 5785                        | 157 | 802.11 a  | Top           | /             | 11.75                      | 13                       | 0.147                   | 0.20                    | 0.01            |

Note1: U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is  $\leq 1.2$ W/kg, SAR is not required for U-NII-1 band.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

**Table 14.34: SAR Values (WLAN 5G - Body) – (Scaled Reported SAR)**

| Ambient Temperature: 22.5°C |     |               |                    | Liquid Temperature: 22.0°C |                         |                                |
|-----------------------------|-----|---------------|--------------------|----------------------------|-------------------------|--------------------------------|
| Frequency                   |     | Test Position | Actual duty factor | maximum duty factor        | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
| MHz                         | Ch. |               |                    |                            |                         |                                |
| 5785                        | 157 | Rear          | 100%               | 100%                       | 0.24                    | <b>0.24</b>                    |

## 15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

**Table 15.1: SAR Measurement Variability for Body – WCDMA1700**

| Frequency |      | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|------|---------------|------------|--------------------------|-------|--------------------------|
| MHz       | Ch.  |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 1712.4    | 1312 | Rear          | 1.14       | 1.11                     | 1.03  | /                        |

**Table 15.2: SAR Measurement Variability for Body – LTE Band 4**

| Frequency |       | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|-------|---------------|------------|--------------------------|-------|--------------------------|
| MHz       | Ch.   |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 1720      | 20050 | Rear          | 0.941      | 0.928                    | 1.01  | /                        |

**Table 15.3: SAR Measurement Variability for Body – LTE Band 7**

| Frequency |       | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|-------|---------------|------------|--------------------------|-------|--------------------------|
| MHz       | Ch.   |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 2510      | 20850 | Rear          | 0.897      | 0.881                    | 1.02  | /                        |

**Table 15.4: SAR Measurement Variability for Body – LTE Band 66**

| Frequency |        | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|--------|---------------|------------|--------------------------|-------|--------------------------|
| MHz       | Ch.    |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 1720      | 132072 | Rear          | 1.02       | 0.985                    | 1.04  | /                        |

**Table 15.5: SAR Measurement Variability for Head – WLAN 2.4G**

| Frequency |     | Test Position | Original   | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup> Repeated |
|-----------|-----|---------------|------------|--------------------------|-------|--------------------------|
| MHz       | Ch. |               | SAR (W/kg) | SAR (W/kg)               |       | SAR (W/kg)               |
| 2437      | 6   | Left Touch    | 1.07       | 1.03                     | 1.04  | /                        |

## 16 Measurement Uncertainty

### 16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

| No.                                                | Error Description                               | Type | Uncertainty value                          | Probably Distribution | Div.       | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------------------------------|-------------------------------------------------|------|--------------------------------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| <b>Measurement system</b>                          |                                                 |      |                                            |                       |            |         |          |                |                 |                   |
| 1                                                  | Probe calibration                               | B    | 12                                         | N                     | 2          | 1       | 1        | 6.0            | 6.0             | ∞                 |
| 2                                                  | Isotropy                                        | B    | 7.4                                        | R                     | $\sqrt{3}$ | 1       | 1        | 4.3            | 4.3             | ∞                 |
| 3                                                  | Boundary effect                                 | B    | 1.1                                        | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | ∞                 |
| 4                                                  | Linearity                                       | B    | 4.7                                        | R                     | $\sqrt{3}$ | 1       | 1        | 2.7            | 2.7             | ∞                 |
| 5                                                  | Detection limit                                 | B    | 1.0                                        | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | ∞                 |
| 6                                                  | Readout electronics                             | B    | 1.0                                        | N                     | 1          | 1       | 1        | 1.0            | 1.0             | ∞                 |
| 7                                                  | Response time                                   | B    | 0.0                                        | R                     | $\sqrt{3}$ | 1       | 1        | 0.0            | 0.0             | ∞                 |
| 8                                                  | Integration time                                | B    | 1.7                                        | R                     | $\sqrt{3}$ | 1       | 1        | 1.0            | 1.0             | ∞                 |
| 9                                                  | RF ambient conditions-noise                     | B    | 3.0                                        | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | ∞                 |
| 10                                                 | RF ambient conditions-reflection                | B    | 3.0                                        | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | ∞                 |
| 11                                                 | Probe positioned mech. restrictions             | B    | 0.35                                       | R                     | $\sqrt{3}$ | 1       | 1        | 0.2            | 0.2             | ∞                 |
| 12                                                 | Probe positioning with respect to phantom shell | B    | 2.9                                        | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | ∞                 |
| 13                                                 | Post-processing                                 | B    | 1.0                                        | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | ∞                 |
| <b>Test sample related</b>                         |                                                 |      |                                            |                       |            |         |          |                |                 |                   |
| 14                                                 | Test sample positioning                         | A    | 3.3                                        | N                     | 1          | 1       | 1        | 3.3            | 3.3             | 5                 |
| 15                                                 | Device holder uncertainty                       | A    | 3.4                                        | N                     | 1          | 1       | 1        | 3.4            | 3.4             | 5                 |
| 16                                                 | Drift of output power                           | B    | 5.0                                        | R                     | $\sqrt{3}$ | 1       | 1        | 2.9            | 2.9             | ∞                 |
| <b>Phantom and set-up</b>                          |                                                 |      |                                            |                       |            |         |          |                |                 |                   |
| 17                                                 | Phantom uncertainty                             | B    | 1.0                                        | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | ∞                 |
| 18                                                 | Liquid conductivity (target)                    | B    | 5.0                                        | R                     | $\sqrt{3}$ | 0.64    | 0.43     | 1.8            | 1.2             | ∞                 |
| 19                                                 | Liquid conductivity (meas.)                     | A    | 1.3                                        | N                     | 1          | 0.64    | 0.43     | 0.83           | 0.56            | 9                 |
| 20                                                 | Liquid permittivity (target)                    | B    | 5.0                                        | R                     | $\sqrt{3}$ | 0.6     | 0.49     | 1.7            | 1.4             | ∞                 |
| 21                                                 | Liquid permittivity (meas.)                     | A    | 1.6                                        | N                     | 1          | 0.6     | 0.49     | 0.96           | 0.78            | 9                 |
| Combined standard uncertainty                      |                                                 |      | $u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ |                       |            |         |          | 10.4           | 10.3            | 95.5              |
| Expanded uncertainty (Confidence interval of 95 %) |                                                 |      | $u_e = 2u_c$                               |                       |            |         |          | 20.8           | 20.6            |                   |

## 16.2 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

| No.                                                | Error Description                               | Type                                        | Uncertainty value | Probably Distribution | Div.       | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------------------------------|-------------------------------------------------|---------------------------------------------|-------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| <b>Measurement system</b>                          |                                                 |                                             |                   |                       |            |         |          |                |                 |                   |
| 1                                                  | Probe calibration                               | B                                           | 12                | N                     | 2          | 1       | 1        | 6.0            | 6.0             | $\infty$          |
| 2                                                  | Isotropy                                        | B                                           | 7.4               | R                     | $\sqrt{3}$ | 1       | 1        | 4.3            | 4.3             | $\infty$          |
| 3                                                  | Boundary effect                                 | B                                           | 1.1               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | $\infty$          |
| 4                                                  | Linearity                                       | B                                           | 4.7               | R                     | $\sqrt{3}$ | 1       | 1        | 2.7            | 2.7             | $\infty$          |
| 5                                                  | Detection limit                                 | B                                           | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | $\infty$          |
| 6                                                  | Readout electronics                             | B                                           | 1.0               | N                     | 1          | 1       | 1        | 1.0            | 1.0             | $\infty$          |
| 7                                                  | Response time                                   | B                                           | 0.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.0            | 0.0             | $\infty$          |
| 8                                                  | Integration time                                | B                                           | 1.7               | R                     | $\sqrt{3}$ | 1       | 1        | 1.0            | 1.0             | $\infty$          |
| 9                                                  | RF ambient conditions-noise                     | B                                           | 3.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | $\infty$          |
| 10                                                 | RF ambient conditions-reflection                | B                                           | 3.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | $\infty$          |
| 11                                                 | Probe positioned mech. Restrictions             | B                                           | 0.35              | R                     | $\sqrt{3}$ | 1       | 1        | 0.2            | 0.2             | $\infty$          |
| 12                                                 | Probe positioning with respect to phantom shell | B                                           | 2.9               | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | $\infty$          |
| 13                                                 | Post-processing                                 | B                                           | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | $\infty$          |
| 14                                                 | Fast SAR z-Approximation                        | B                                           | 7.0               | R                     | $\sqrt{3}$ | 1       | 1        | 4.0            | 4.0             | $\infty$          |
| <b>Test sample related</b>                         |                                                 |                                             |                   |                       |            |         |          |                |                 |                   |
| 15                                                 | Test sample positioning                         | A                                           | 3.3               | N                     | 1          | 1       | 1        | 3.3            | 3.3             | 5                 |
| 16                                                 | Device holder uncertainty                       | A                                           | 3.4               | N                     | 1          | 1       | 1        | 3.4            | 3.4             | 5                 |
| 17                                                 | Drift of output power                           | B                                           | 5.0               | R                     | $\sqrt{3}$ | 1       | 1        | 2.9            | 2.9             | $\infty$          |
| <b>Phantom and set-up</b>                          |                                                 |                                             |                   |                       |            |         |          |                |                 |                   |
| 18                                                 | Phantom uncertainty                             | B                                           | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | $\infty$          |
| 19                                                 | Liquid conductivity (target)                    | B                                           | 5.0               | R                     | $\sqrt{3}$ | 0.64    | 0.43     | 1.8            | 1.2             | $\infty$          |
| 20                                                 | Liquid conductivity (meas.)                     | A                                           | 1.3               | N                     | 1          | 0.64    | 0.43     | 0.83           | 0.56            | 43                |
| 21                                                 | Liquid permittivity (target)                    | B                                           | 5.0               | R                     | $\sqrt{3}$ | 0.6     | 0.49     | 1.7            | 1.4             | $\infty$          |
| 22                                                 | Liquid permittivity (meas.)                     | A                                           | 1.6               | N                     | 1          | 0.6     | 0.49     | 0.96           | 0.78            | 521               |
| Combined standard uncertainty                      |                                                 | $u_c' = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ |                   |                       |            |         |          | 11.1           | 11.0            | 257               |
| Expanded uncertainty (Confidence interval of 95 %) |                                                 | $u_e = 2u_c$                                |                   |                       |            |         |          | 22.2           | 22.0            |                   |

### 16.3 Measurement Uncertainty for Normal SAR Tests (3GHz~6GHz)

| No.                                                   | Error Description                               | Type                                        | Uncertainty value | Probably Distribution | Div.       | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|-------------------------------------------------------|-------------------------------------------------|---------------------------------------------|-------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| <b>Measurement system</b>                             |                                                 |                                             |                   |                       |            |         |          |                |                 |                   |
| 1                                                     | Probe calibration                               | B                                           | 13                | N                     | 2          | 1       | 1        | 6.5            | 6.5             | ∞                 |
| 2                                                     | Isotropy                                        | B                                           | 7.4               | R                     | $\sqrt{3}$ | 1       | 1        | 4.3            | 4.3             | ∞                 |
| 3                                                     | Boundary effect                                 | B                                           | 2.3               | R                     | $\sqrt{3}$ | 1       | 1        | 1.3            | 1.3             | ∞                 |
| 4                                                     | Linearity                                       | B                                           | 4.7               | R                     | $\sqrt{3}$ | 1       | 1        | 2.7            | 2.7             | ∞                 |
| 5                                                     | Detection limit                                 | B                                           | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | ∞                 |
| 6                                                     | Readout electronics                             | B                                           | 1.0               | N                     | 1          | 1       | 1        | 1.0            | 1.0             | ∞                 |
| 7                                                     | Response time                                   | B                                           | 0.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.0            | 0.0             | ∞                 |
| 8                                                     | Integration time                                | B                                           | 1.7               | R                     | $\sqrt{3}$ | 1       | 1        | 1.0            | 1.0             | ∞                 |
| 9                                                     | RF ambient conditions-noise                     | B                                           | 3.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | ∞                 |
| 10                                                    | RF ambient conditions-reflection                | B                                           | 3.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | ∞                 |
| 11                                                    | Probe positioned mech. restrictions             | B                                           | 0.71              | R                     | $\sqrt{3}$ | 1       | 1        | 0.4            | 0.4             | ∞                 |
| 12                                                    | Probe positioning with respect to phantom shell | B                                           | 5.7               | R                     | $\sqrt{3}$ | 1       | 1        | 3.3            | 3.3             | ∞                 |
| 13                                                    | Post-processing                                 | B                                           | 4.0               | R                     | $\sqrt{3}$ | 1       | 1        | 2.3            | 2.3             | ∞                 |
| <b>Test sample related</b>                            |                                                 |                                             |                   |                       |            |         |          |                |                 |                   |
| 14                                                    | Test sample positioning                         | A                                           | 3.3               | N                     | 1          | 1       | 1        | 3.3            | 3.3             | 5                 |
| 15                                                    | Device holder uncertainty                       | A                                           | 3.4               | N                     | 1          | 1       | 1        | 3.4            | 3.4             | 5                 |
| 16                                                    | Drift of output power                           | B                                           | 5.0               | R                     | $\sqrt{3}$ | 1       | 1        | 2.9            | 2.9             | ∞                 |
| <b>Phantom and set-up</b>                             |                                                 |                                             |                   |                       |            |         |          |                |                 |                   |
| 17                                                    | Phantom uncertainty                             | B                                           | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | ∞                 |
| 18                                                    | Liquid conductivity (target)                    | B                                           | 5.0               | R                     | $\sqrt{3}$ | 0.64    | 0.43     | 1.8            | 1.2             | ∞                 |
| 19                                                    | Liquid conductivity (meas.)                     | A                                           | 1.3               | N                     | 1          | 0.64    | 0.43     | 0.83           | 0.56            | 9                 |
| 20                                                    | Liquid permittivity (target)                    | B                                           | 5.0               | R                     | $\sqrt{3}$ | 0.6     | 0.49     | 1.7            | 1.4             | ∞                 |
| 21                                                    | Liquid permittivity (meas.)                     | A                                           | 1.6               | N                     | 1          | 0.6     | 0.49     | 0.96           | 0.78            | 9                 |
| Combined standard uncertainty                         |                                                 | $u'_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ |                   |                       |            |         |          | 11.3           | 11.2            | 95.5              |
| Expanded uncertainty<br>(Confidence interval of 95 %) |                                                 | $u_e = 2u_c$                                |                   |                       |            |         |          | 22.6           | 22.4            |                   |

### 16.4 Measurement Uncertainty for Fast SAR Tests (3GHz~6GHz)

| No.                        | Error Description                               | Type | Uncertainty value | Probably Distribution | Div        | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|----------------------------|-------------------------------------------------|------|-------------------|-----------------------|------------|---------|----------|----------------|-----------------|-------------------|
| <b>Measurement system</b>  |                                                 |      |                   |                       |            |         |          |                |                 |                   |
| 1                          | Probe calibration                               | B    | 13                | N                     | 2          | 1       | 1        | 6.5            | 6.5             | $\infty$          |
| 2                          | Isotropy                                        | B    | 7.4               | R                     | $\sqrt{3}$ | 1       | 1        | 4.3            | 4.3             | $\infty$          |
| 3                          | Boundary effect                                 | B    | 2.3               | R                     | $\sqrt{3}$ | 1       | 1        | 1.3            | 1.3             | $\infty$          |
| 4                          | Linearity                                       | B    | 4.7               | R                     | $\sqrt{3}$ | 1       | 1        | 2.7            | 2.7             | $\infty$          |
| 5                          | Detection limit                                 | B    | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | $\infty$          |
| 6                          | Readout electronics                             | B    | 1.0               | N                     | 1          | 1       | 1        | 1.0            | 1.0             | $\infty$          |
| 7                          | Response time                                   | B    | 0.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.0            | 0.0             | $\infty$          |
| 8                          | Integration time                                | B    | 1.7               | R                     | $\sqrt{3}$ | 1       | 1        | 1.0            | 1.0             | $\infty$          |
| 9                          | RF ambient conditions-noise                     | B    | 3.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | $\infty$          |
| 10                         | RF ambient conditions-reflection                | B    | 3.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.7            | 1.7             | $\infty$          |
| 11                         | Probe positioned mech. Restrictions             | B    | 0.71              | R                     | $\sqrt{3}$ | 1       | 1        | 0.4            | 0.4             | $\infty$          |
| 12                         | Probe positioning with respect to phantom shell | B    | 5.7               | R                     | $\sqrt{3}$ | 1       | 1        | 3.3            | 3.3             | $\infty$          |
| 13                         | Post-processing                                 | B    | 4.0               | R                     | $\sqrt{3}$ | 1       | 1        | 2.3            | 2.3             | $\infty$          |
| 14                         | Fast SAR z-Approximation                        | B    | 14.0              | R                     | $\sqrt{3}$ | 1       | 1        | 8.1            | 8.1             | $\infty$          |
| <b>Test sample related</b> |                                                 |      |                   |                       |            |         |          |                |                 |                   |
| 15                         | Test sample positioning                         | A    | 3.3               | N                     | 1          | 1       | 1        | 3.3            | 3.3             | 5                 |
| 16                         | Device holder uncertainty                       | A    | 3.4               | N                     | 1          | 1       | 1        | 3.4            | 3.4             | 5                 |
| 17                         | Drift of output power                           | B    | 5.0               | R                     | $\sqrt{3}$ | 1       | 1        | 2.9            | 2.9             | $\infty$          |
| <b>Phantom and set-up</b>  |                                                 |      |                   |                       |            |         |          |                |                 |                   |
| 18                         | Phantom uncertainty                             | B    | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | $\infty$          |
| 19                         | Liquid conductivity (target)                    | B    | 5.0               | R                     | $\sqrt{3}$ | 0.64    | 0.43     | 1.8            | 1.2             | $\infty$          |

|                                                       |                              |                                             |     |   |            |      |      |      |      |          |
|-------------------------------------------------------|------------------------------|---------------------------------------------|-----|---|------------|------|------|------|------|----------|
| 20                                                    | Liquid conductivity (meas.)  | A                                           | 1.3 | N | 1          | 0.64 | 0.43 | 0.83 | 0.56 | 43       |
| 21                                                    | Liquid permittivity (target) | B                                           | 5.0 | R | $\sqrt{3}$ | 0.6  | 0.49 | 1.7  | 1.4  | $\infty$ |
| 22                                                    | Liquid permittivity (meas.)  | A                                           | 1.6 | N | 1          | 0.6  | 0.49 | 0.96 | 0.78 | 521      |
| Combined standard uncertainty                         |                              | $u'_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ |     |   |            |      |      | 13.9 | 13.9 | 257      |
| Expanded uncertainty<br>(Confidence interval of 95 %) |                              | $u_e = 2u_c$                                |     |   |            |      |      | 27.8 | 27.7 |          |

## 17 Main Test Instruments

**Table 17.1: List of Main Instruments**

| No. | Name                         | Type            | Serial Number | Calibration Date | Valid Period |
|-----|------------------------------|-----------------|---------------|------------------|--------------|
| 01  | Network analyzer             | Agilent E5071C  | MY46103759    | 2018-11-16       | One year     |
| 02  | Dielectric probe             | 85070E          | MY44300317    | /                | /            |
| 03  | Power meter                  | E4418B          | MY50000366    | 2018-12-14       | One year     |
| 04  | Power sensor                 | E9304A          | MY50000188    |                  |              |
| 05  | Power meter                  | NRP             | 101460        | 2019-02-04       | One year     |
| 06  | Power sensor                 | NRP-Z91         | 100553        |                  |              |
| 07  | Signal Generator             | E8257D          | MY47461211    | 2018-06-04       | One year     |
| 08  | Amplifier                    | VTL5400         | 0404          | /                | /            |
| 09  | E-field Probe                | SPEAG EX3DV4    | 3633          | 2019-02-26       | One year     |
| 10  | DAE                          | SPEAG DAE4      | 786           | 2019-01-11       | One year     |
| 11  | Dipole Validation Kit        | SPEAG D750V3    | 1163          | 2016-09-19       | Three year   |
| 12  | Dipole Validation Kit        | SPEAG D835V2    | 4d057         | 2018-10-09       | Three year   |
| 13  | Dipole Validation Kit        | SPEAG D1750V2   | 1152          | 2016-09-09       | Three year   |
| 14  | Dipole Validation Kit        | SPEAG D1900V2   | 5d088         | 2018-10-24       | Three year   |
| 15  | Dipole Validation Kit        | SPEAG D2450V2   | 873           | 2018-10-26       | Three year   |
| 16  | Dipole Validation Kit        | SPEAG D2550V2   | 1010          | 2018-08-24       | Three year   |
| 17  | Dipole Validation Kit        | SPEAG D5GHzV2   | 1238          | 2016-09-21       | Three year   |
| 18  | BTS                          | E5515C          | GB46110722    | 2019-01-18       | One year     |
| 19  | Radio Communication Analyzer | Anristu MT8820C | 6201341853    | 2019-03-07       | One year     |

\*\*\*END OF REPORT BODY\*\*\*

## ANNEX A Graph Results

### GSM850 Head

Date: 2019-3-15

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.961$  S/m;  $\epsilon_r = 40.419$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C      Liquid Temperature: 21.5°C

Communication System: UID 0, GSM (0) Frequency: 836.6 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3633 ConvF (9.51, 9.51, 9.51)

**Right Cheek Middle/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.047 W/kg

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

Reference Value = 1.550 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.062 W/kg

**SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.045 W/kg**

Maximum value of SAR (measured) = 0.101 W/kg

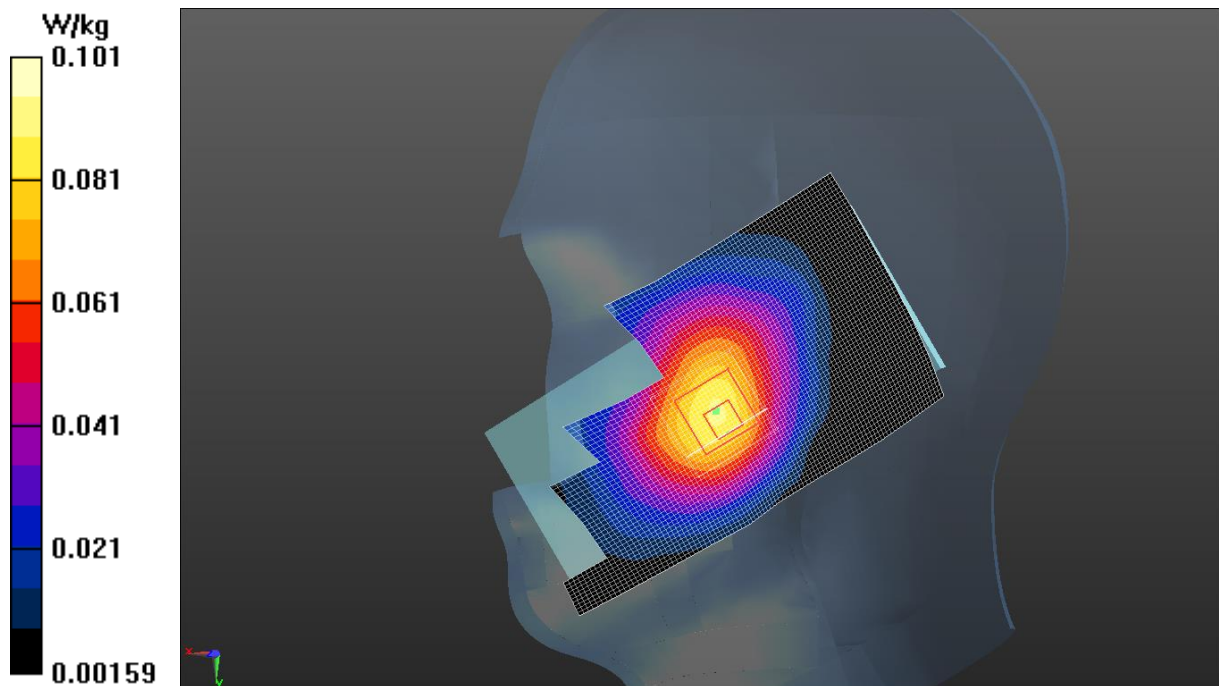


Fig.1 GSM 850MHz

### GSM850 Body

Date: 2019-3-15

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.995$  S/m;  $\epsilon_r = 53.771$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, GPRS 2Txslot (0) Frequency: 836.6 MHz Duty Cycle: 1:4

Probe: EX3DV4 - SN3633 ConvF (9.56, 9.56, 9.56)

**Rear side Middle/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.169 W/kg

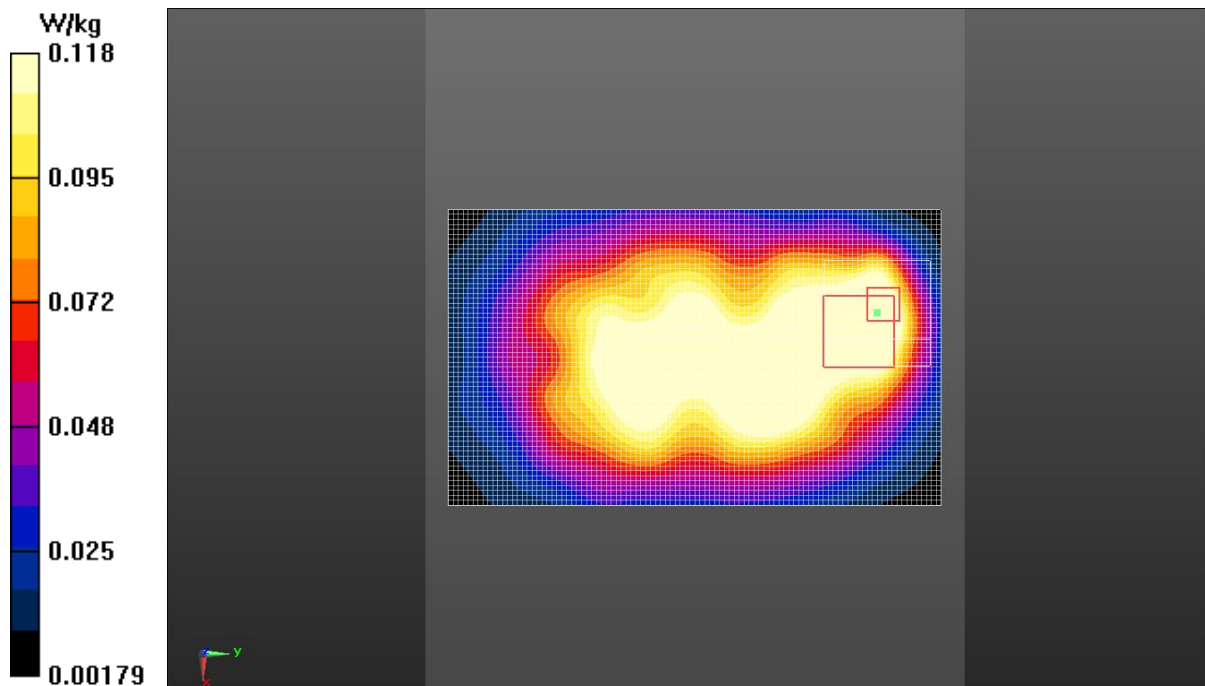
**Rear side Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.59 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.236 W/kg

**SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.063 W/kg**

Maximum value of SAR (measured) = 0.118 W/kg



**Fig.2 GSM 850 MHz**

### GSM1900 Head

Date: 2019-3-28

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.358 \text{ S/m}$ ;  $\epsilon_r = 40.763$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.0^\circ\text{C}$  Liquid Temperature:  $21.5^\circ\text{C}$

Communication System: UID 0, GSM (0) Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3633 ConvF (7.63, 7.63, 7.63)

**Left Cheek Middle/Area Scan (61x111x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.060 \text{ W/kg}$

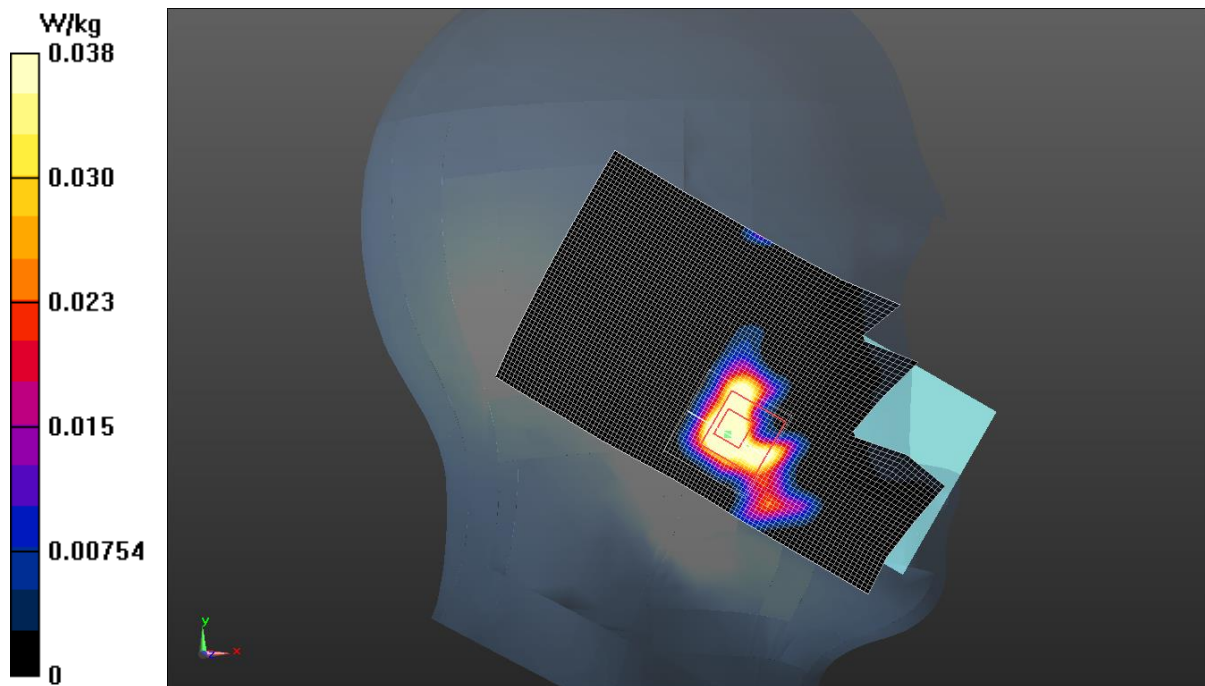
**Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $0.484 \text{ V/m}$ ; Power Drift =  $0.06 \text{ dB}$

Peak SAR (extrapolated) =  $0.033 \text{ W/kg}$

**SAR(1 g) =  $0.030 \text{ W/kg}$ ; SAR(10 g) =  $0.017 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.038 \text{ W/kg}$



**Fig.3 GSM 1900 MHz**

### GSM1900 Body

Date: 2019-3-28

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.549 \text{ S/m}$ ;  $\epsilon_r = 52.992$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.0^\circ\text{C}$  Liquid Temperature:  $21.5^\circ\text{C}$

Communication System: UID 0, GPRS 4Txslot (0) Frequency: 1880 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN3633 ConvF (7.67, 7.67, 7.67)

**Rear Side Middle/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.743 \text{ W/kg}$

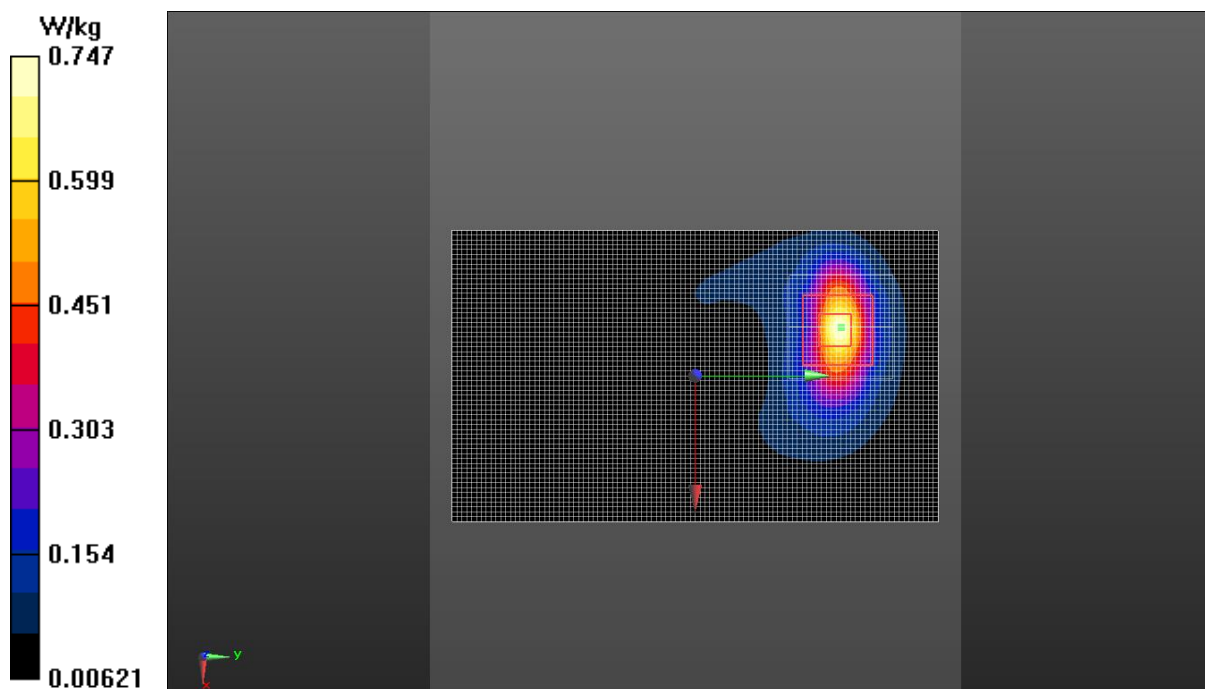
**Rear Side Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $4.426 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $0.945 \text{ W/kg}$

**SAR(1 g) =  $0.546 \text{ W/kg}$ ; SAR(10 g) =  $0.272 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.747 \text{ W/kg}$



**Fig.4 GSM 1900 MHz**

### WCDMA 850 Head

Date: 2019-3-15

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.961$  S/m;  $\epsilon_r = 40.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, WCDMA (0) Frequency: 836.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.51, 9.51, 9.51)

**Right Cheek Middle/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.077 W/kg

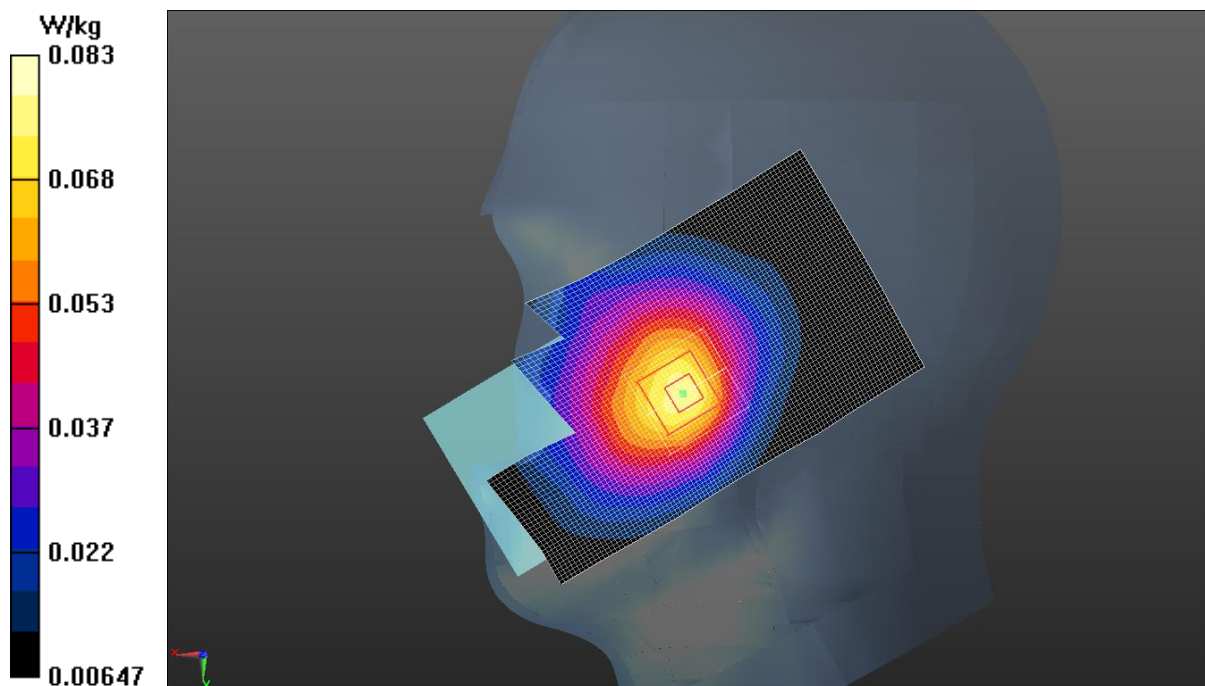
**Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.473 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.094 W/kg

**SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.051 W/kg**

Maximum value of SAR (measured) = 0.083 W/kg



**Fig.5 WCDMA 850**

### WCDMA 850 Body

Date: 2019-3-15

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.995$  S/m;  $\epsilon_r = 53.773$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, WCDMA (0) Frequency: 836.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.56, 9.56, 9.56)

**Rear side Middle/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.145 W/kg

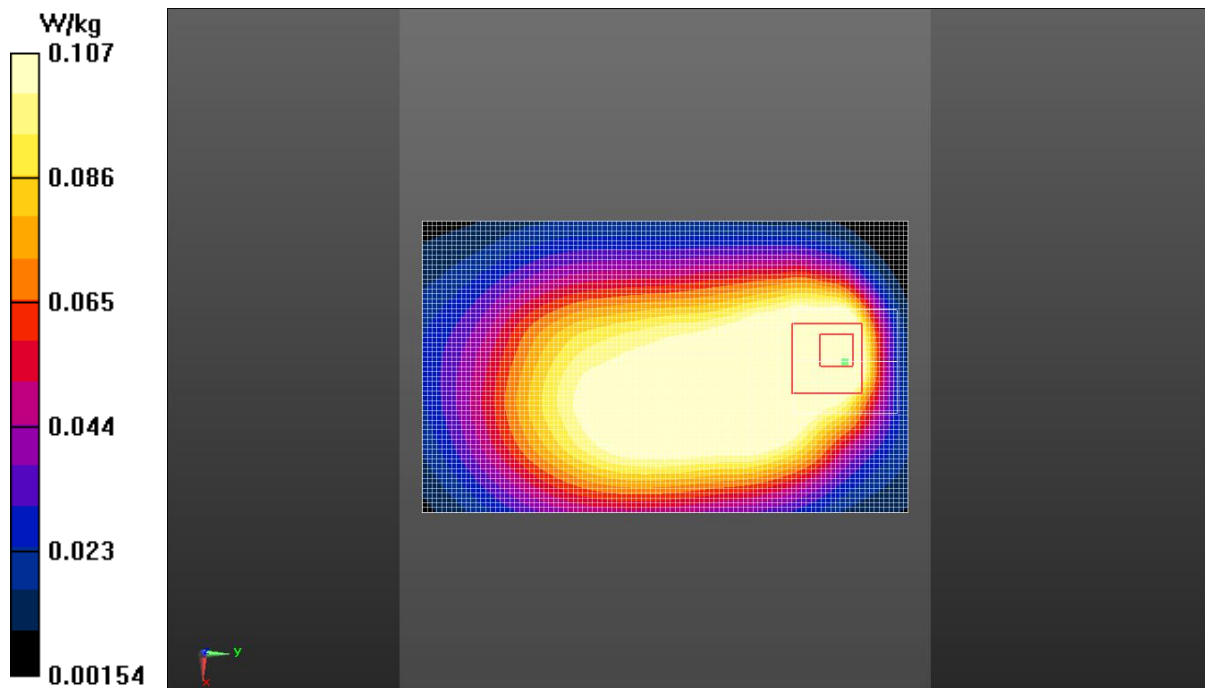
**Rear side Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.01 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.169 W/kg

**SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.064 W/kg**

Maximum value of SAR (measured) = 0.107 W/kg



**Fig.6 WCDMA 850**

### WCDMA 1900 Head

Date: 2019-3-28

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.358$  S/m;  $\epsilon_r = 40.763$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, WCDMA (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.63, 7.63, 7.63)

**Left Cheek Middle/Area Scan (61x111x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.102 W/kg

**Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 0.589 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.108 W/kg

**SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.036 W/kg**

Maximum value of SAR (measured) = 0.084 W/kg

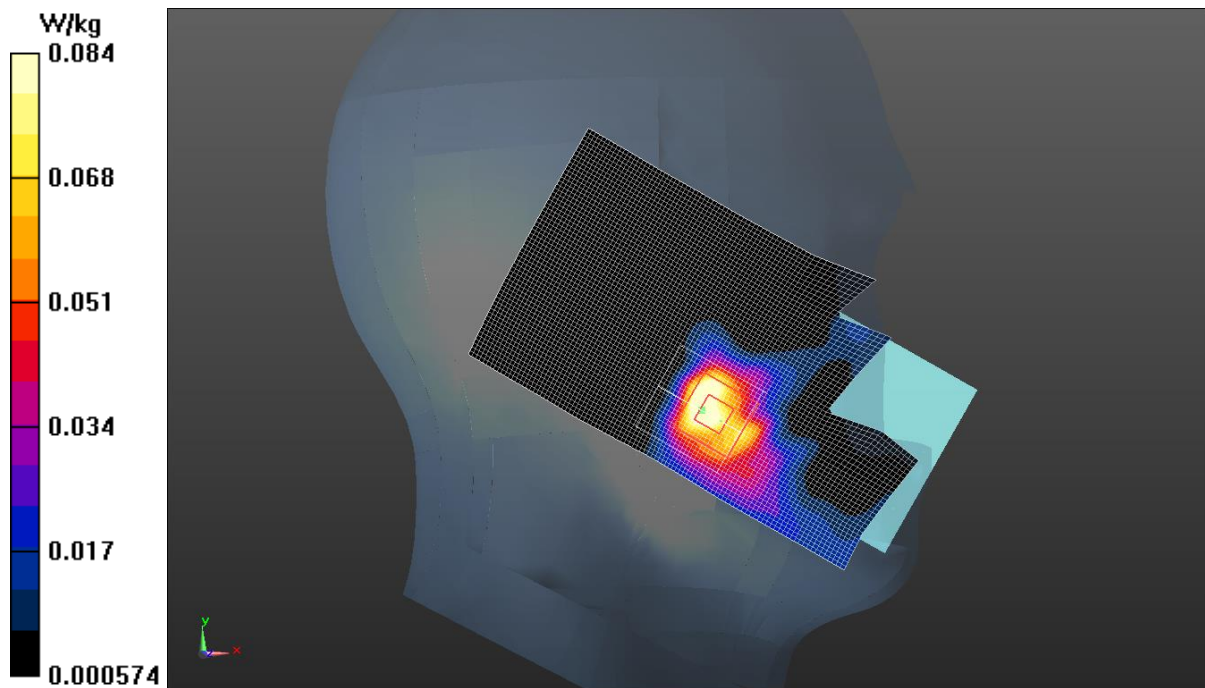


Fig.7 WCDMA 1900

### WCDMA 1900 Body

Date: 2019-3-28

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.549$  S/m;  $\epsilon_r = 52.992$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, WCDMA (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.67, 7.67, 7.67)

**Rear Side Middle/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.927 W/kg

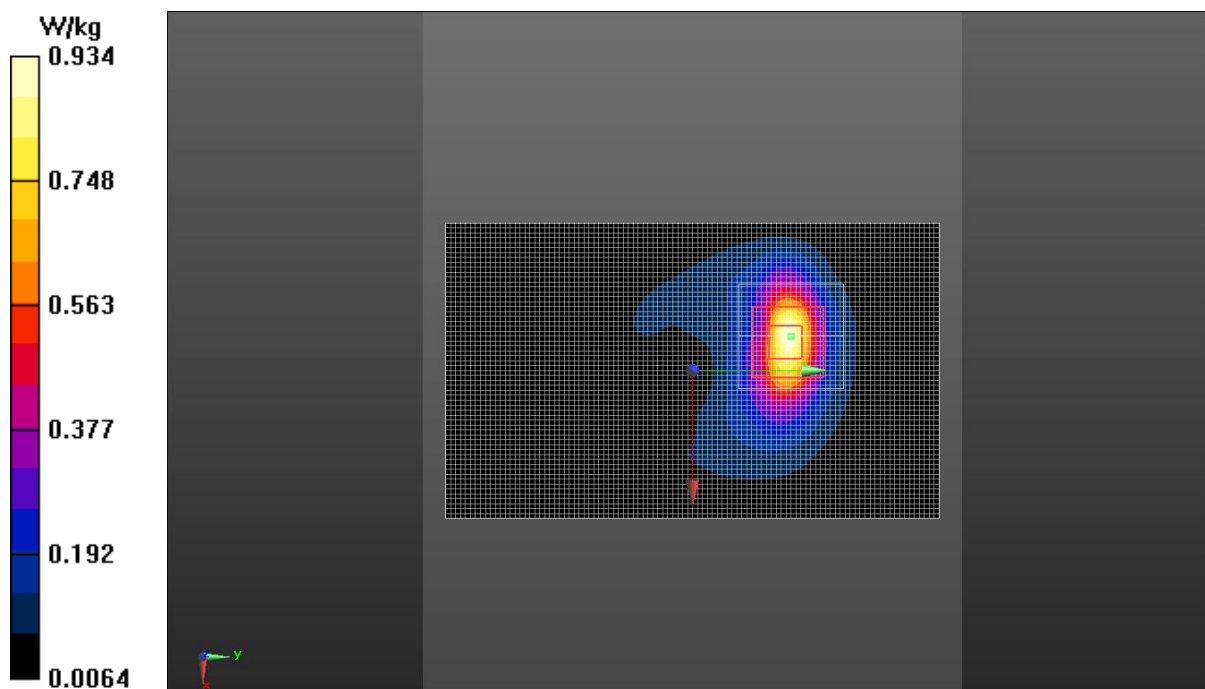
**Rear Side Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.302 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.342 W/kg**

Maximum value of SAR (measured) = 0.934 W/kg



**Fig.8 WCDMA 1900**

### WCDMA 1700 Head

Date: 2019-3-30

Electronics: DAE4 Sn786

Medium: Head 1750 MHz

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.345$  S/m;  $\epsilon_r = 40.882$ ;  $\rho = 1000$  kg/m<sup>3</sup> Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, WCDMA (0) Frequency: 1732.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (8.07, 8.07, 8.07)

**Left Cheek Middle/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.110 W/kg

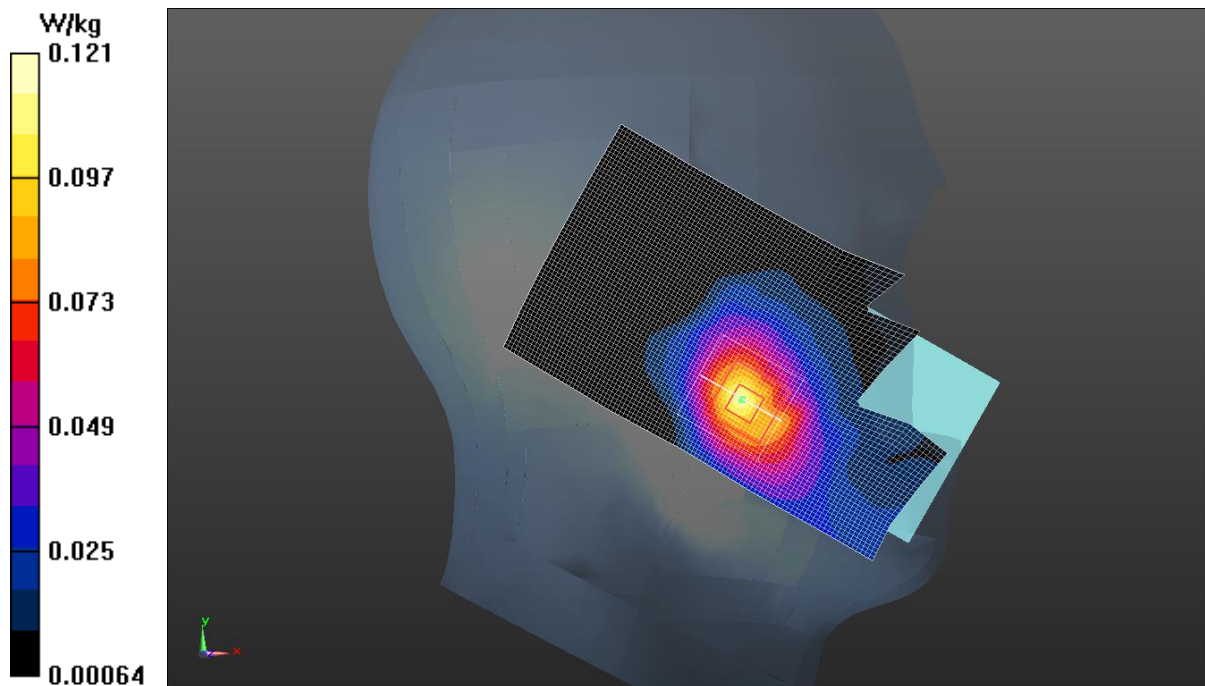
**Left Cheek Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.554 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.151 W/kg

**SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.056 W/kg**

Maximum value of SAR (measured) = 0.121 W/kg



**Fig.9 WCDMA 1700**

### WCDMA 1700 Body

Date: 2019-3-30

Electronics: DAE4 Sn786

Medium: Body 1750 MHz

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 53.472$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, WCDMA (0) Frequency: 1712.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.93, 7.93, 7.93)

**Rear Side Low/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

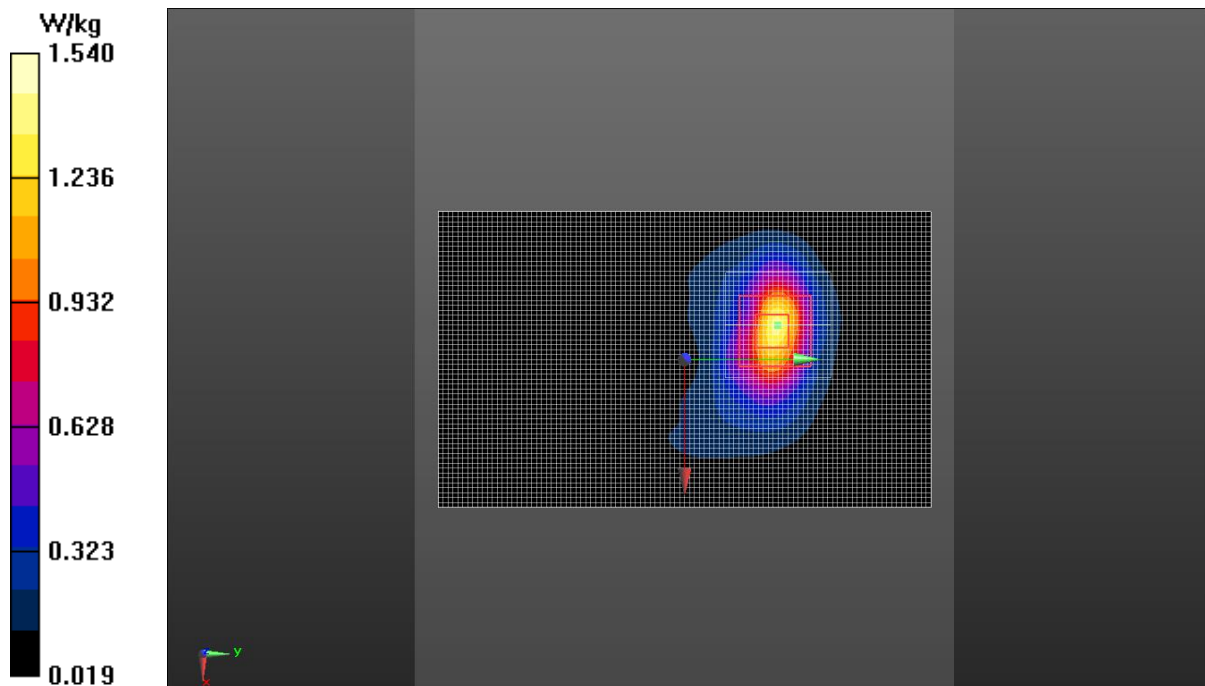
**Rear Side Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.618 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.581 W/kg**

Maximum value of SAR (measured) = 1.54 W/kg



**Fig.10 WCDMA 1700**

### LTE Band 2 Head

Date: 2019-3-28

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.358$  S/m;  $\epsilon_r = 40.763$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.63, 7.63, 7.63)

**Left Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.074 W/kg

**Left Cheek Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.254 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.103 W/kg

**SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.035 W/kg**

Maximum value of SAR (measured) = 0.082 W/kg

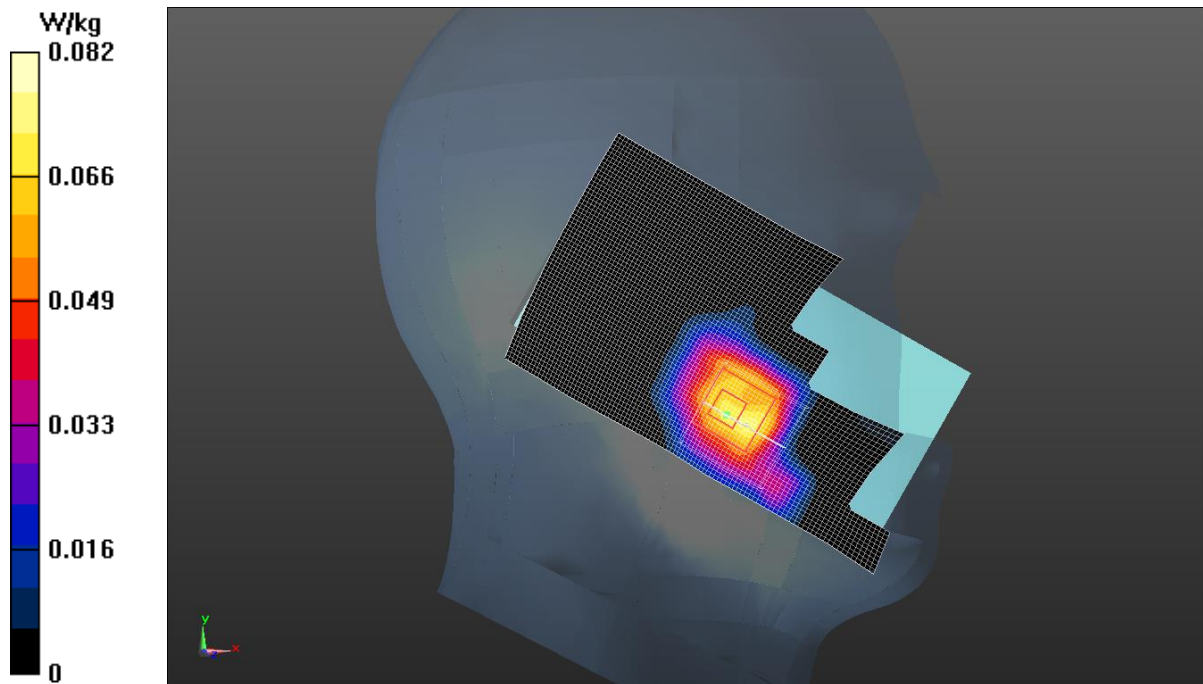


Fig.11 LTE Band 2

### LTE Band 2 Body

Date: 2019-3-28

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.532$  S/m;  $\epsilon_r = 53.039$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.67, 7.67, 7.67)

**Rear Side Low 1RB\_Mid/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

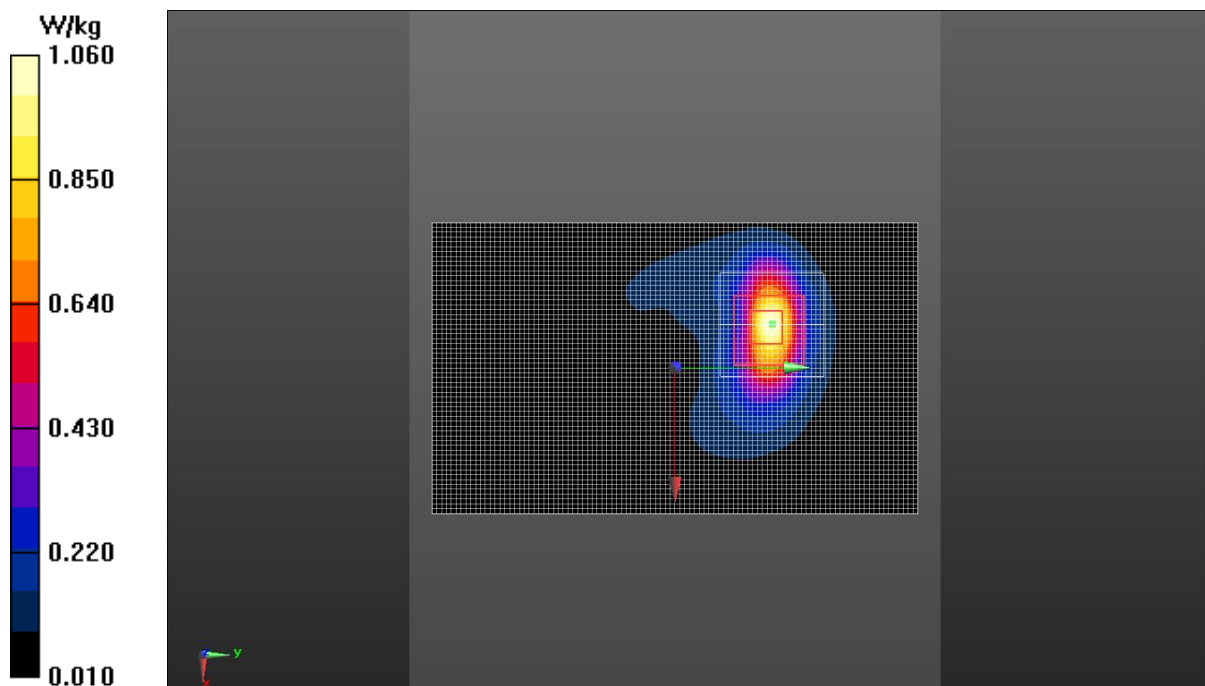
**Rear Side Low 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.314 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.384 W/kg**

Maximum value of SAR (measured) = 1.06 W/kg



**Fig.12 LTE Band 2**

### LTE Band 4 Head

Date: 2019-3-30

Electronics: DAE4 Sn786

Medium: Head 1750 MHz

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.344$  S/m;  $\epsilon_r = 40.884$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C      Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 1732.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (8.07, 8.07, 8.07)

**Left Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.097 W/kg

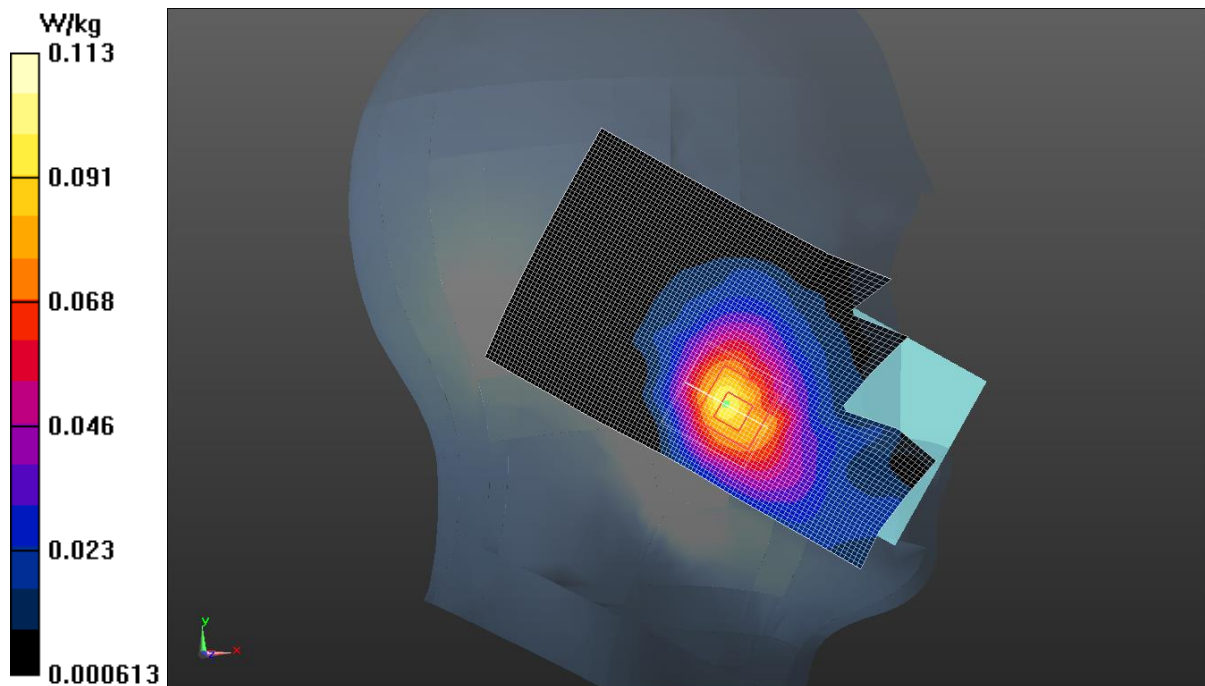
**Left Cheek Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.159 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.141 W/kg

**SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.047 W/kg**

Maximum value of SAR (measured) = 0.113 W/kg



**Fig.13 LTE Band 4**

### LTE Band 4 Body

Date: 2019-3-30

Electronics: DAE4 Sn786

Medium: Body 1750 MHz

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.417$  S/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.93, 7.93, 7.93)

**Rear Side Low 1RB\_Mid/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.76 W/kg

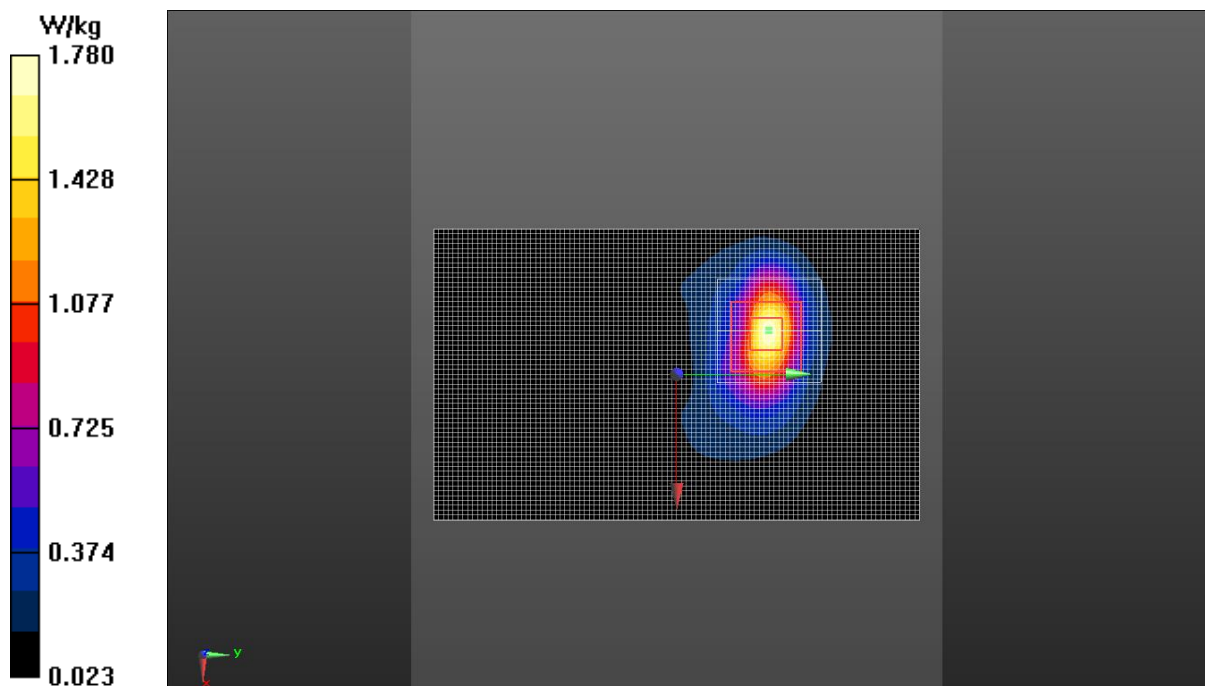
**Rear Side Low 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.280 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.25 W/kg

**SAR(1 g) = 0.941 W/kg; SAR(10 g) = 0.485 W/kg**

Maximum value of SAR (measured) = 1.78 W/kg



**Fig.14 LTE Band 4**

### LTE Band 5 Head

Date: 2019-3-15

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.961$  S/m;  $\epsilon_r = 40.419$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.51, 9.51, 9.51)

**Right Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.093 W/kg

**Right Cheek Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.674 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.154 W/kg

**SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.062 W/kg**

Maximum value of SAR (measured) = 0.112 W/kg

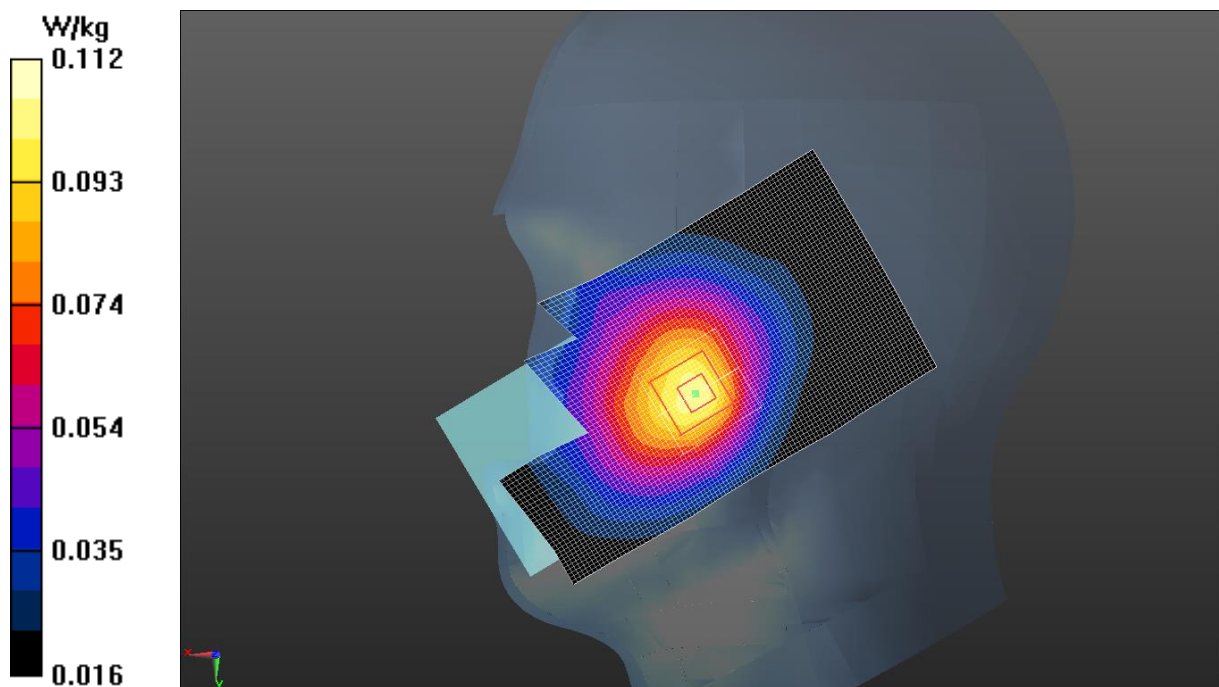


Fig.15 LTE Band 5

### LTE Band 5 Body

Date: 2019-3-15

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.995$  S/m;  $\epsilon_r = 53.772$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.56, 9.56, 9.56)

**Rear side Middle 1RB\_Mid/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.176 W/kg

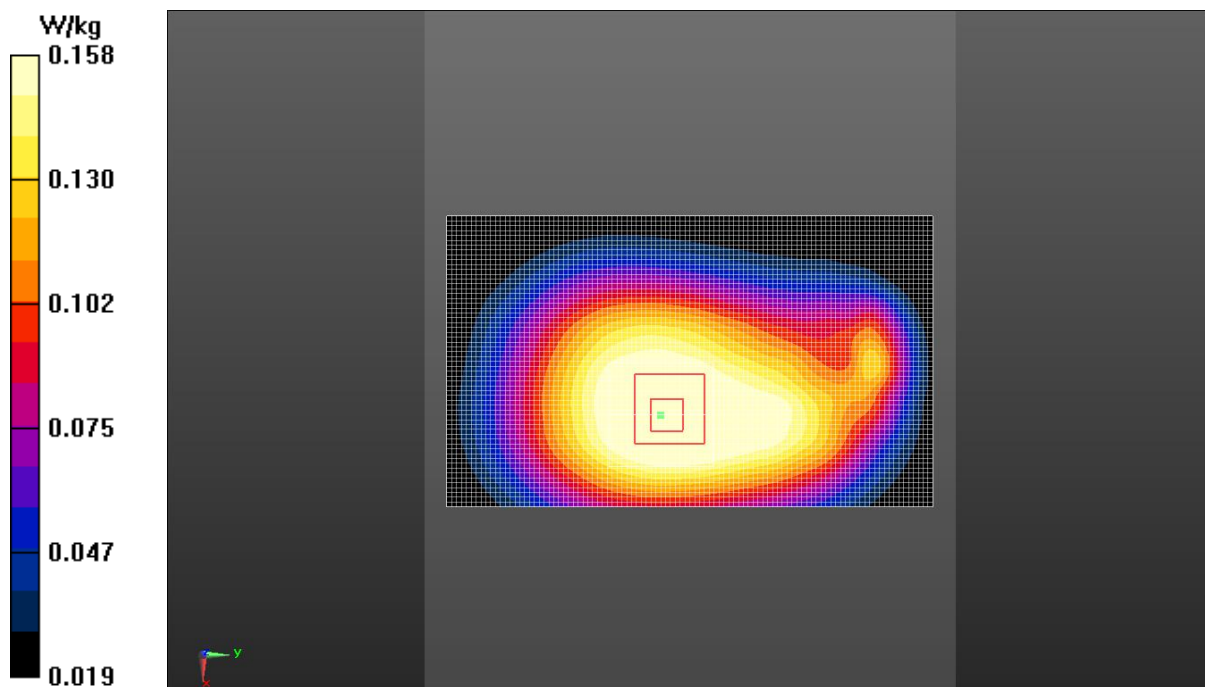
**Rear side Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.69 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.195 W/kg

**SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.099 W/kg**

Maximum value of SAR (measured) = 0.158 W/kg



**Fig.16 LTE Band 5**

### LTE Band 7 Head

Date: 2019-3-25

Electronics: DAE4 Sn786

Medium: Head 2550 MHz

Medium parameters used (interpolated):  $f = 2535$  MHz;  $\sigma = 1.936$  S/m;  $\epsilon_r = 38.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.33, 7.33, 7.33)

**Left Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.222 W/kg

**Left Cheek Middle 1RB\_Mid/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.765 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.337 W/kg

**SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.099 W/kg**

Maximum value of SAR (measured) = 0.258 W/kg

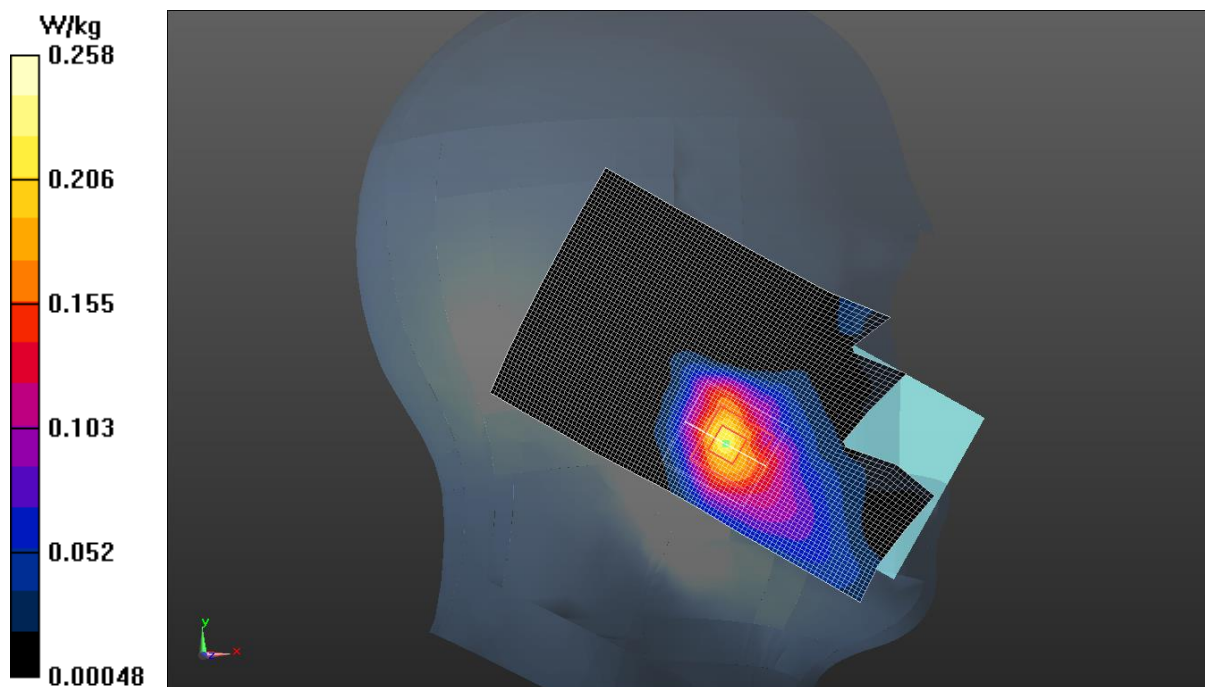


Fig.17 LTE Band 7

### LTE Band 7 Body

Date: 2019-3-25

Electronics: DAE4 Sn786

Medium: Body 2550 MHz

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.01$  S/m;  $\epsilon_r = 53.642$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, 4G\_LTE\_FDD (0) Frequency: 2510 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3633 ConvF (7.4, 7.4, 7.4);

**Rear Side Low 1RB\_Mid/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

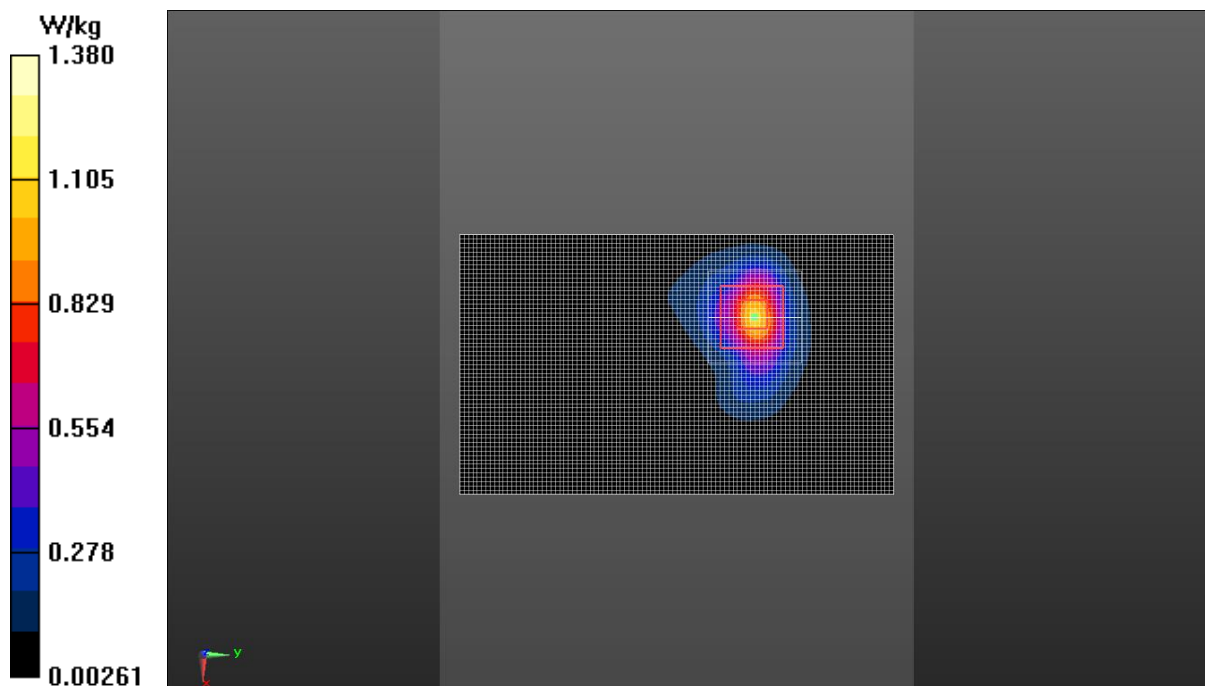
**Rear Side Low 1RB\_Mid/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.477 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.384 W/kg**

Maximum value of SAR (measured) = 1.38 W/kg



**Fig.18 LTE Band 7**

### LTE Band 12 Head

Date: 2019-3-27

Electronics: DAE4 Sn786

Medium: Head 750 MHz

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 41.117$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.51, 9.51, 9.51)

**Left Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.033 W/kg

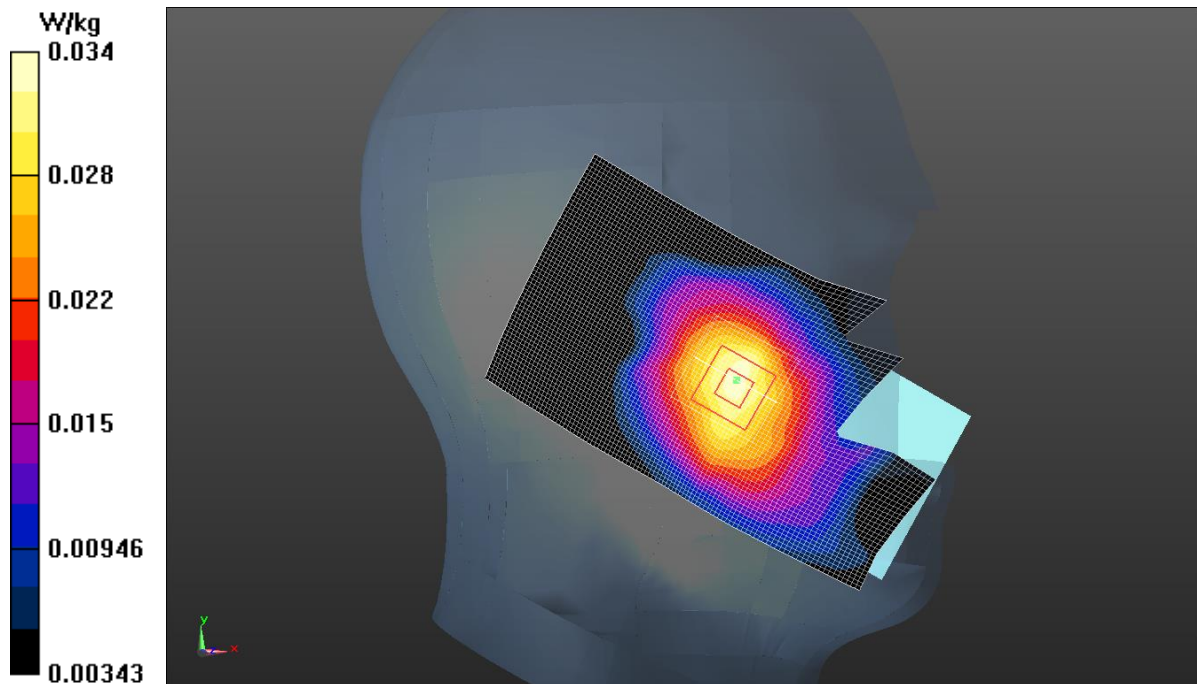
**Left Cheek Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.817 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.038 W/kg

**SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.022 W/kg**

Maximum value of SAR (measured) = 0.034 W/kg



**Fig.19 LTE Band 12**

### LTE Band 12 Body

Date: 2019-3-27

Electronics: DAE4 Sn786

Medium: Body 750 MHz

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 54.93$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.56, 9.56, 9.56)

**Rear side Middle 1RB\_Mid/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.111 W/kg

**Rear side Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.990 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.118 W/kg

**SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.065 W/kg**

Maximum value of SAR (measured) = 0.098 W/kg

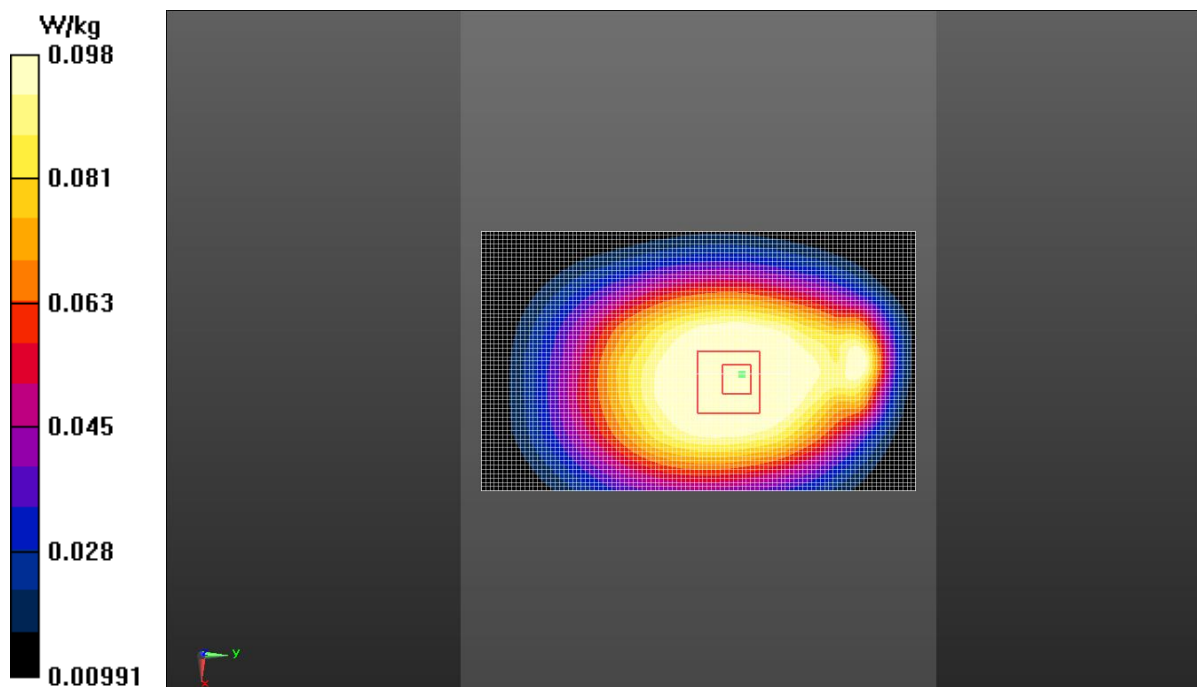


Fig.20 LTE Band 12

### LTE Band 17 Head

Date: 2019-3-27

Electronics: DAE4 Sn786

Medium: Head 750 MHz

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.906$  S/m;  $\epsilon_r = 41.108$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 710 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.51, 9.51, 9.51)

**Left Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.031 W/kg

**Left Cheek Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.829 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.037 W/kg

**SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.022 W/kg**

Maximum value of SAR (measured) = 0.033 W/kg

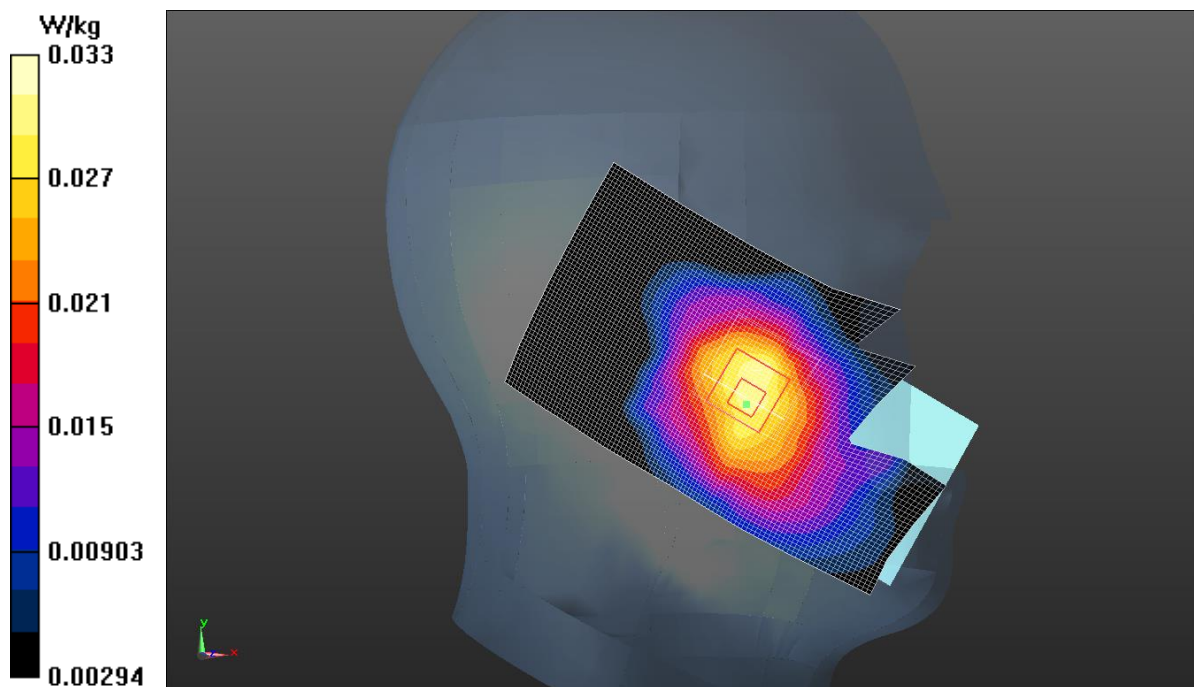


Fig.21 LTE Band 17

### LTE Band 17 Body

Date: 2019-3-27

Electronics: DAE4 Sn786

Medium: Body 750 MHz

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.942$  S/m;  $\epsilon_r = 54.893$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 710 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (9.56, 9.56, 9.56)

**Rear side Middle 1RB\_Mid/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.109 W/kg

**Rear side Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.856 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.115 W/kg

**SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.063 W/kg**

Maximum value of SAR (measured) = 0.0951 W/kg

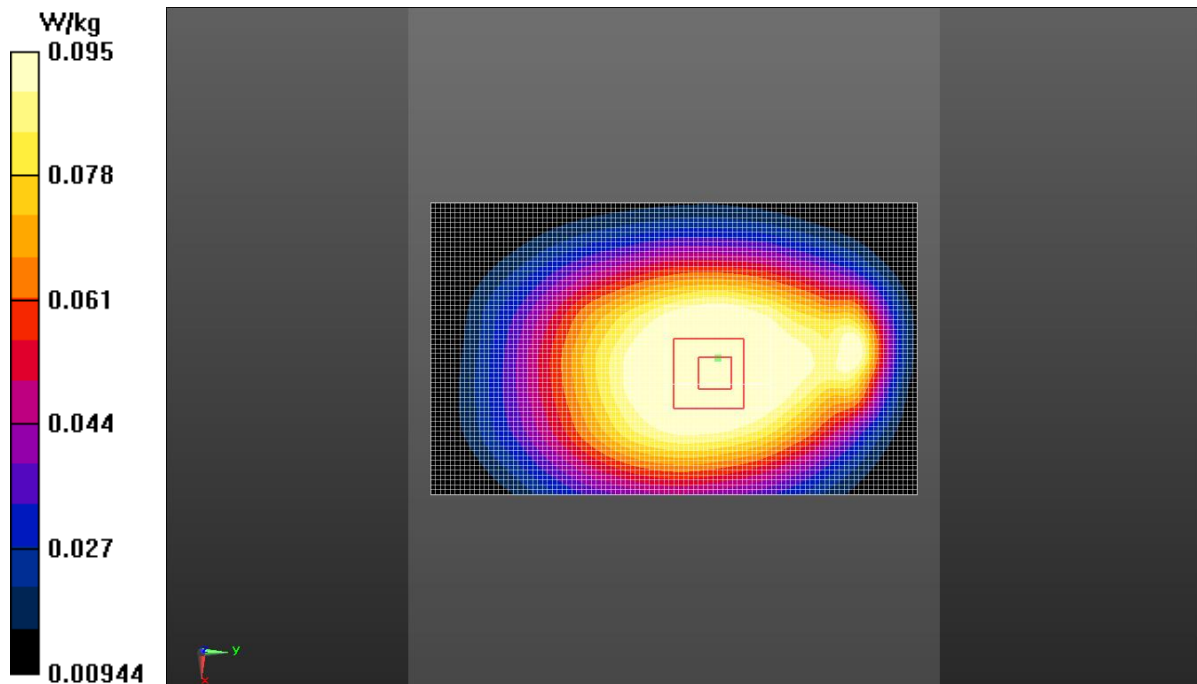


Fig.22 LTE Band 17

### LTE Band 38 Head

Date: 2019-3-25

Electronics: DAE4 Sn786

Medium: Head 2550 MHz

Medium parameters used (interpolated):  $f = 2595$  MHz;  $\sigma = 2.006$  S/m;  $\epsilon_r = 38.196$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_TDD (0) Frequency: 2595 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 - SN3633 ConvF (7.12, 7.12, 7.12)

**Left Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.163 W/kg

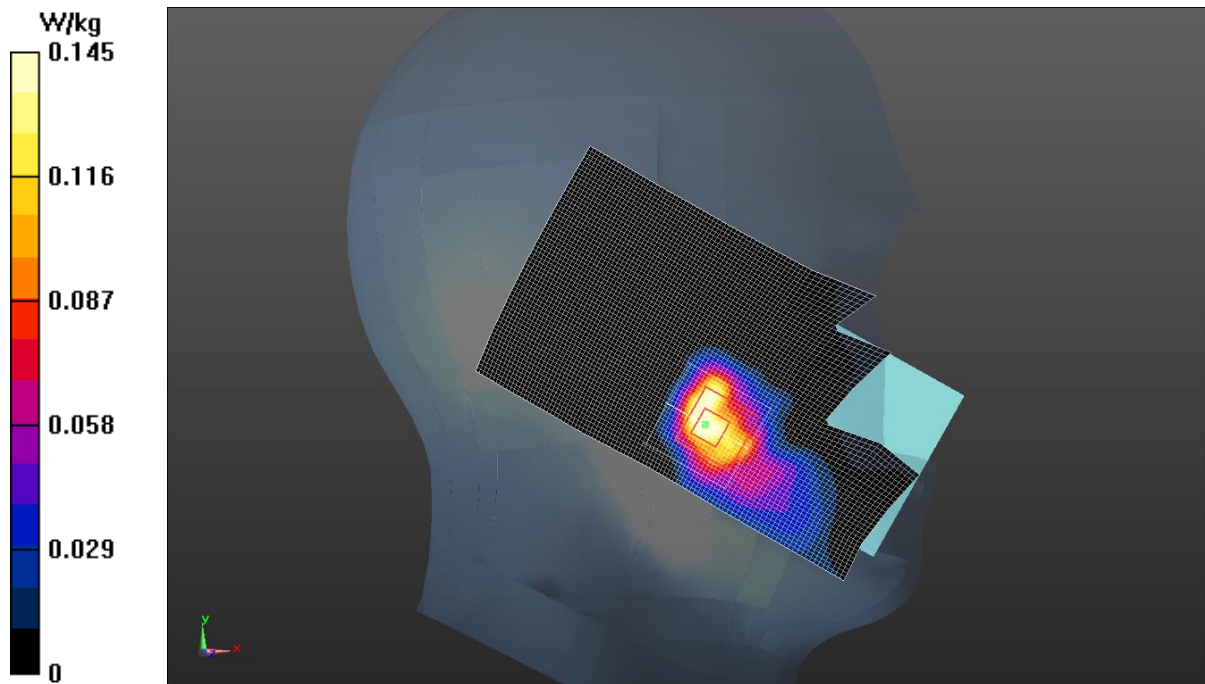
**Left Cheek Middle 1RB\_Mid/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.906 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.187 W/kg

**SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.052 W/kg**

Maximum value of SAR (measured) = 0.145 W/kg



**Fig.23 LTE Band 38**

### LTE Band 38 Body

Date: 2019-3-25

Electronics: DAE4 Sn786

Medium: Body 2550 MHz

Medium parameters used:  $f = 2595$  MHz;  $\sigma = 2.121$  S/m;  $\epsilon_r = 53.373$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_TDD (0) Frequency: 2595 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 - SN3633 ConvF (7.21, 7.21, 7.21)

**Rear Side Middle 1RB\_Mid/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.554 W/kg

**Rear Side Middle 1RB\_Mid/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.318 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.904 W/kg

**SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.169 W/kg**

Maximum value of SAR (measured) = 0.660 W/kg

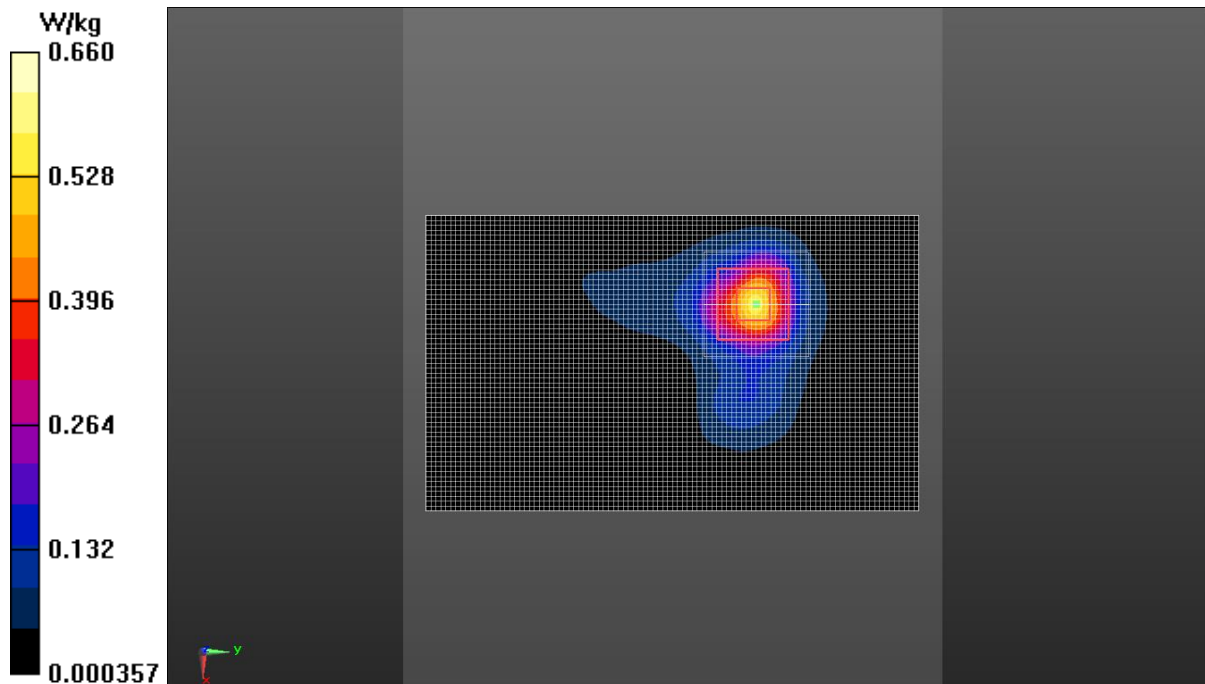


Fig.24 LTE Band 38

### LTE Band 66 Head

Date: 2019-3-30

Electronics: DAE4 Sn786

Medium: Head 1750 MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.357$  S/m;  $\epsilon_r = 40.844$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (8.07, 8.07, 8.07)

**Left Cheek Middle 1RB\_Mid/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.097 W/kg

**Left Cheek Middle 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.306 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.132 W/kg

**SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.047 W/kg**

Maximum value of SAR (measured) = 0.104 W/kg

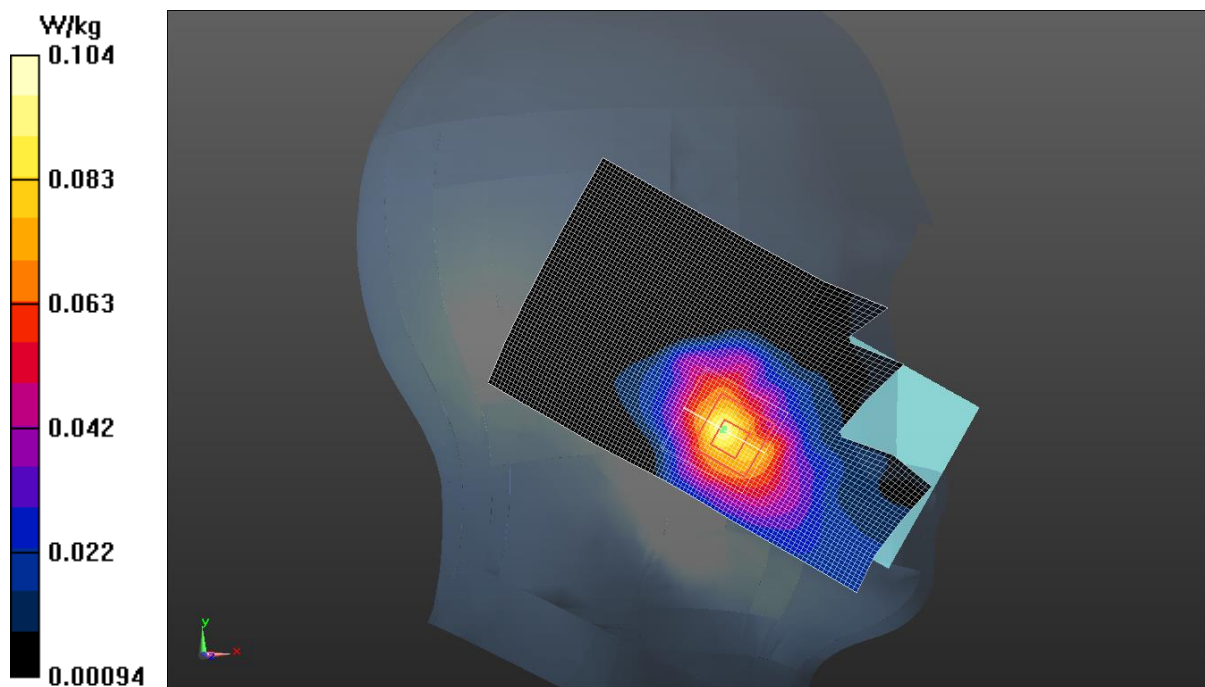


Fig.25 LTE Band 66

### LTE Band 66 Body

Date: 2019-3-30

Electronics: DAE4 Sn786

Medium: Body 1750 MHz

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.417$  S/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: UID 0, LTE\_FDD (0) Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3633 ConvF (7.93, 7.93, 7.93)

**Rear Side Low 1RB\_Mid/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

**Rear Side Low 1RB\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.171 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.25 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.524 W/kg**

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

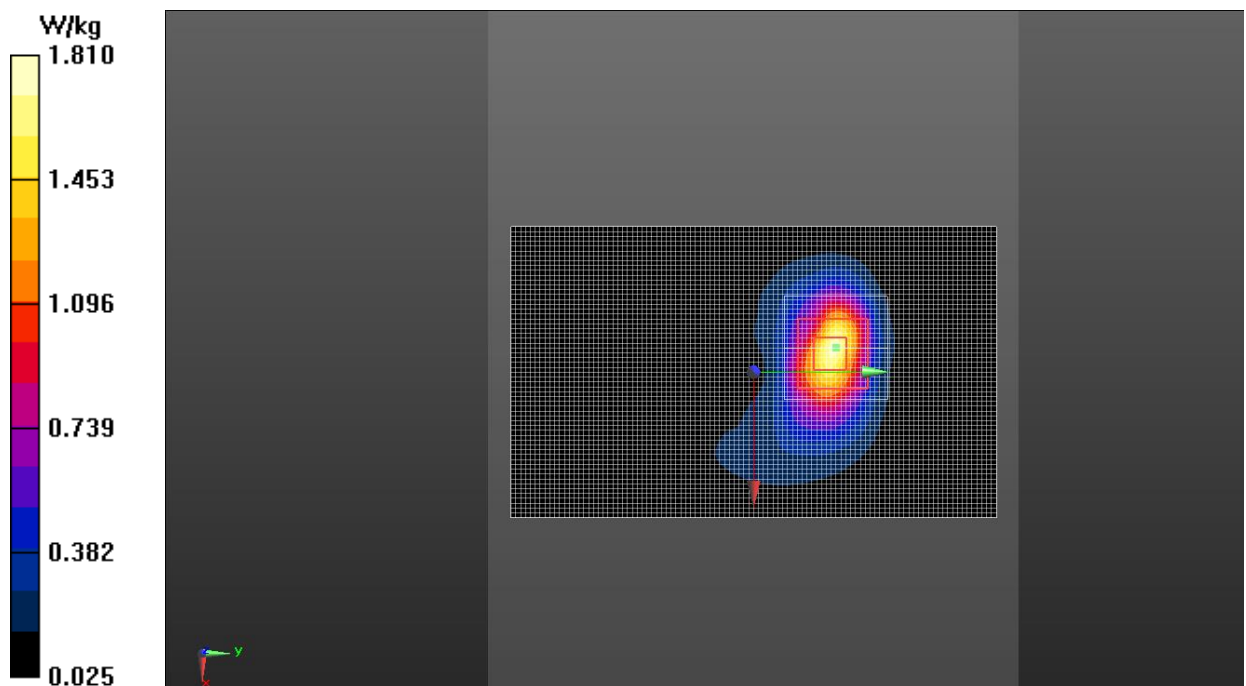


Fig.26 LTE Band 66