

**Table 14-5 WCDMA1900-BII  
Head**

| WCDMA1900-BII Head        |                          |                 |                      |                    |                      |                          |                    |                      |
|---------------------------|--------------------------|-----------------|----------------------|--------------------|----------------------|--------------------------|--------------------|----------------------|
| Ambient Temperature: 22.5 |                          |                 | Measured SAR [W/kg]  |                    |                      | Liquid Temperature: 23.3 |                    |                      |
| Mode                      | Device orientation       | SAR measurement | Measured SAR [W/kg]  |                    |                      | Reported SAR [W/kg]      |                    |                      |
|                           |                          |                 | CH9538<br>1907.6 MHz | CH9400<br>1880 MHz | CH9262<br>1852.4 MHz | CH9538<br>1907.6 MHz     | CH9400<br>1880 MHz | CH9262<br>1852.4 MHz |
| RMC                       | Tune-up                  |                 | 24.50                | 24.50              | 24.50                | Scaling factor*          |                    |                      |
|                           | Slot Average Power [dBm] |                 | 24.24                | 23.99              | 24.02                | 1.06                     | 1.12               | 1.12                 |
|                           | Left Cheek               | 1g SAR          | 0.499                | 0.466              | 0.47                 | 0.53                     | 0.52               | 0.52                 |
|                           |                          | 10g SAR         | 0.315                | 0.264              | 0.269                | 0.33                     | 0.30               | 0.30                 |
|                           |                          | Deviation       | 0.06                 | 0.11               | 0.04                 | 0.06                     | 0.11               | 0.04                 |
|                           | Left Tilt                | 1g SAR          |                      | 0.164              |                      |                          | 0.18               |                      |
|                           |                          | 10g SAR         |                      | 0.1                |                      |                          | 0.11               |                      |
|                           |                          | Deviation       |                      | -0.1               |                      |                          | -0.10              |                      |
|                           | Right Cheek              | 1g SAR          |                      | 0.304              |                      |                          | 0.34               |                      |
|                           |                          | 10g SAR         |                      | 0.239              |                      |                          | 0.27               |                      |
|                           |                          | Deviation       |                      | 0.09               |                      |                          | 0.09               |                      |
|                           | Right Tilt               | 1g SAR          |                      | 0.145              |                      |                          | 0.16               |                      |
| 10g SAR                   |                          |                 | 0.092                |                    |                      | 0.10                     |                    |                      |
| Deviation                 |                          |                 | 0.16                 |                    |                      | 0.16                     |                    |                      |
| RMC B1                    | Left Cheek               | 1g SAR          | 0.472                |                    |                      | 0.50                     |                    |                      |
|                           |                          | 10g SAR         | 0.273                |                    |                      | 0.29                     |                    |                      |
|                           |                          | Deviation       | -0.08                |                    |                      | -0.08                    |                    |                      |
| SIM 2                     | Left Cheek               | 1g SAR          | 0.466                |                    |                      | 0.50                     |                    |                      |
|                           |                          | 10g SAR         | 0.265                |                    |                      | 0.28                     |                    |                      |
|                           |                          | Deviation       | -0.12                |                    |                      | -0.12                    |                    |                      |

**Table 14-6 WCDMA1900-BII Body**

| WCDMA1900-BII Body        |                          |                 |                      |                    |                      |                          |                    |                      |
|---------------------------|--------------------------|-----------------|----------------------|--------------------|----------------------|--------------------------|--------------------|----------------------|
| Ambient Temperature: 22.5 |                          |                 | Measured SAR [W/kg]  |                    |                      | Liquid Temperature: 23.3 |                    |                      |
| Mode                      | Device orientation       | SAR measurement | Measured SAR [W/kg]  |                    |                      | Reported SAR [W/kg]      |                    |                      |
|                           |                          |                 | CH9538<br>1907.6 MHz | CH9400<br>1880 MHz | CH9262<br>1852.4 MHz | CH9538<br>1907.6 MHz     | CH9400<br>1880 MHz | CH9262<br>1852.4 MHz |
| RMC                       | Tune-up                  |                 | 24.50                | 24.50              | 24.50                | Scaling factor*          |                    |                      |
|                           | Slot Average Power [dBm] |                 | 24.24                | 23.99              | 24.02                | 1.06                     | 1.12               | 1.12                 |
|                           | Front                    | 1g SAR          |                      | 0.526              |                      |                          | 0.59               |                      |
|                           |                          | 10g SAR         |                      | 0.291              |                      |                          | 0.33               |                      |
|                           |                          | Deviation       |                      | 0.01               |                      |                          | 0.01               |                      |
|                           | Rear                     | 1g SAR          |                      | 0.464              |                      |                          | 0.52               |                      |
|                           |                          | 10g SAR         |                      | 0.245              |                      |                          | 0.28               |                      |
|                           |                          | Deviation       |                      | -0.06              |                      |                          | -0.06              |                      |
|                           | Bottom edge              | 1g SAR          |                      | 0.465              |                      |                          | 0.52               |                      |
|                           |                          | 10g SAR         |                      | 0.231              |                      |                          | 0.26               |                      |
|                           |                          | Deviation       |                      | 0.17               |                      |                          | 0.17               |                      |
|                           | Left edge                | 1g SAR          | 0.416                | 0.549              | 0.502                | 0.44                     | 0.62               | 0.56                 |
| 10g SAR                   |                          | 0.136           | 0.332                | 0.275              | 0.14                 | 0.37                     | 0.31               |                      |
| Deviation                 |                          | 0.04            | -0.16                | 0.18               | 0.04                 | -0.16                    | 0.18               |                      |
| Right edge                | 1g SAR                   |                 | 0.0674               |                    |                      | 0.08                     |                    |                      |
|                           | 10g SAR                  |                 | 0.0366               |                    |                      | 0.04                     |                    |                      |
|                           | Deviation                |                 | 0.09                 |                    |                      | 0.09                     |                    |                      |
| RMC B1                    | Left edge                | 1g SAR          |                      | 0.526              |                      |                          | 0.59               |                      |
|                           |                          | 10g SAR         |                      | 0.291              |                      |                          | 0.33               |                      |
|                           |                          | Deviation       |                      | 0.09               |                      |                          | 0.09               |                      |
| SIM 2                     | Left edge                | 1g SAR          |                      | 0.515              |                      |                          | 0.58               |                      |
|                           |                          | 10g SAR         |                      | 0.285              |                      |                          | 0.32               |                      |
|                           |                          | Deviation       |                      | -0.01              |                      |                          | -0.01              |                      |

**Table 14-7 WCDMA1700-BIV  
Head**

| WCDMA1700-BIV Head        |                          |                 |                      |                      |                      |                          |                      |                      |
|---------------------------|--------------------------|-----------------|----------------------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| Ambient Temperature: 22.5 |                          |                 |                      |                      |                      | Liquid Temperature: 23.3 |                      |                      |
| Mode                      | Device orientation       | SAR measurement | Measured SAR [W/kg]  |                      |                      | Reported SAR [W/kg]      |                      |                      |
|                           |                          |                 | CH1513<br>1752.6 MHz | CH1412<br>1732.4 MHz | CH1312<br>1712.4 MHz | CH1513<br>1752.6 MHz     | CH1412<br>1732.4 MHz | CH1312<br>1712.4 MHz |
| RMC                       | Tune-up                  |                 | 24.50                | 24.50                | 24.50                | Scaling factor*          |                      |                      |
|                           | Slot Average Power [dBm] |                 | 24.03                | 24.01                | 24.11                | 1.11                     | 1.12                 | 1.10                 |
|                           | Left Cheek               | 1g SAR          | 0.268                | 0.208                | 0.202                | 0.30                     | 0.23                 | 0.22                 |
|                           |                          | 10g SAR         | 0.178                | 0.137                | 0.136                | 0.20                     | 0.15                 | 0.15                 |
|                           |                          | Deviation       | 0.18                 | 0.02                 | 0.11                 | 0.18                     | 0.02                 | 0.11                 |
|                           | Left Tilt                | 1g SAR          |                      | 0.195                |                      |                          | 0.22                 |                      |
|                           |                          | 10g SAR         |                      | 0.144                |                      |                          | 0.16                 |                      |
|                           |                          | Deviation       |                      | -0.09                |                      |                          | -0.09                |                      |
|                           | Right Cheek              | 1g SAR          |                      | 0.201                |                      |                          | 0.23                 |                      |
|                           |                          | 10g SAR         |                      | 0.152                |                      |                          | 0.17                 |                      |
|                           |                          | Deviation       |                      | 0.12                 |                      |                          | 0.12                 |                      |
|                           | Right Tilt               | 1g SAR          |                      | 0.101                |                      |                          | 0.11                 |                      |
|                           |                          | 10g SAR         |                      | 0.07                 |                      |                          | 0.08                 |                      |
|                           |                          | Deviation       |                      | 0.06                 |                      |                          | 0.06                 |                      |
| RMC B1                    | Left Cheek               | 1g SAR          | 0.247                |                      |                      | 0.28                     |                      |                      |
|                           |                          | 10g SAR         | 0.169                |                      |                      | 0.19                     |                      |                      |
|                           |                          | Deviation       | 0.05                 |                      |                      | 0.05                     |                      |                      |
| SIM 2                     | Left Cheek               | 1g SAR          | 0.261                |                      |                      | 0.29                     |                      |                      |
|                           |                          | 10g SAR         | 0.171                |                      |                      | 0.19                     |                      |                      |
|                           |                          | Deviation       | 0.1                  |                      |                      | 0.10                     |                      |                      |

**Table 14-8 WCDMA1700-BIV Body**

| WCDMA1700-BIV Body        |                          |                 |                      |                      |                      |                          |                      |                      |
|---------------------------|--------------------------|-----------------|----------------------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| Ambient Temperature: 22.5 |                          |                 |                      |                      |                      | Liquid Temperature: 23.3 |                      |                      |
| Mode                      | Device orientation       | SAR measurement | Measured SAR [W/kg]  |                      |                      | Reported SAR [W/kg]      |                      |                      |
|                           |                          |                 | CH1513<br>1752.6 MHz | CH1412<br>1732.4 MHz | CH1312<br>1712.4 MHz | CH1513<br>1752.6 MHz     | CH1412<br>1732.4 MHz | CH1312<br>1712.4 MHz |
| RMC                       | Tune-up                  |                 | 24.50                | 24.50                | 24.50                | Scaling factor*          |                      |                      |
|                           | Slot Average Power [dBm] |                 | 24.03                | 24.01                | 24.11                | 1.11                     | 1.12                 | 1.10                 |
|                           | Front                    | 1g SAR          |                      | 0.253                |                      |                          | 0.28                 |                      |
|                           |                          | 10g SAR         |                      | 0.15                 |                      |                          | 0.17                 |                      |
|                           |                          | Deviation       |                      | 0.11                 |                      |                          | 0.11                 |                      |
|                           | Rear                     | 1g SAR          |                      | 0.235                |                      |                          | 0.26                 |                      |
|                           |                          | 10g SAR         |                      | 0.136                |                      |                          | 0.15                 |                      |
|                           |                          | Deviation       |                      | -0.09                |                      |                          | -0.09                |                      |
|                           | Bottom edge              | 1g SAR          | 0.375                | 0.296                | 0.258                | 0.42                     | 0.33                 | 0.28                 |
|                           |                          | 10g SAR         | 0.2                  | 0.155                | 0.133                | 0.22                     | 0.17                 | 0.15                 |
|                           |                          | Deviation       | -0.18                | 0.02                 | -0.05                | -0.18                    | 0.02                 | -0.05                |
|                           | Left edge                | 1g SAR          |                      | 0.203                |                      |                          | 0.23                 |                      |
|                           |                          | 10g SAR         |                      | 0.104                |                      |                          | 0.12                 |                      |
|                           |                          | Deviation       |                      | -0.11                |                      |                          | -0.11                |                      |
| Right edge                | 1g SAR                   |                 | 0.054                |                      |                      | 0.06                     |                      |                      |
|                           | 10g SAR                  |                 | 0.03                 |                      |                      | 0.03                     |                      |                      |
|                           | Deviation                |                 | -0.11                |                      |                      | -0.11                    |                      |                      |
| RMC B1                    | Bottom edge              | 1g SAR          | 0.343                |                      |                      | 0.38                     |                      |                      |
|                           |                          | 10g SAR         | 0.165                |                      |                      | 0.18                     |                      |                      |
|                           |                          | Deviation       | 0.07                 |                      |                      | 0.07                     |                      |                      |
| SIM 2                     | Bottom edge              | 1g SAR          | 0.347                |                      |                      | 0.39                     |                      |                      |
|                           |                          | 10g SAR         | 0.169                |                      |                      | 0.19                     |                      |                      |
|                           |                          | Deviation       | 0.16                 |                      |                      | 0.16                     |                      |                      |

**Table 14-9 WCDMA850-BV  
Head**

| WCDMA850-BV Head          |                          |                 |                     |                     |                     |                          |                     |                     |
|---------------------------|--------------------------|-----------------|---------------------|---------------------|---------------------|--------------------------|---------------------|---------------------|
| Ambient Temperature: 22.5 |                          |                 |                     |                     |                     | Liquid Temperature: 23.3 |                     |                     |
| Mode                      | Device orientation       | SAR measurement | Measured SAR [W/kg] |                     |                     | Reported SAR [W/kg]      |                     |                     |
|                           |                          |                 | CH4233<br>846.6 MHz | CH4715<br>835.4 MHz | CH4132<br>826.4 MHz | CH4233<br>846.6 MHz      | CH4715<br>835.4 MHz | CH4132<br>826.4 MHz |
| RMC                       | Tune-up                  |                 | 24.50               | 24.50               | 24.50               | Scaling factor*          |                     |                     |
|                           | Slot Average Power [dBm] |                 | 24.42               | 24.39               | 24.50               | 1.02                     | 1.02                | 1.00                |
|                           | Left Cheek               | 1g SAR          |                     | 0.145               |                     |                          | 0.15                |                     |
|                           |                          | 10g SAR         |                     | 0.106               |                     |                          | 0.11                |                     |
|                           |                          | Deviation       |                     | 0.03                |                     |                          | 0.03                |                     |
|                           | Left Tilt                | 1g SAR          |                     | 0.136               |                     |                          | 0.14                |                     |
|                           |                          | 10g SAR         |                     | 0.075               |                     |                          | 0.08                |                     |
|                           |                          | Deviation       |                     | -0.01               |                     |                          | -0.01               |                     |
|                           | Right Cheek              | 1g SAR          | 0.174               | 0.22                | 0.209               | 0.18                     | 0.23                | 0.21                |
|                           |                          | 10g SAR         | 0.121               | 0.17                | 0.146               | 0.12                     | 0.17                | 0.15                |
|                           |                          | Deviation       | 0.09                | -0.05               | 0.03                | 0.09                     | -0.05               | 0.03                |
|                           | Right Tilt               | 1g SAR          |                     | 0.086               |                     |                          | 0.09                |                     |
|                           |                          | 10g SAR         |                     | 0.04                |                     |                          | 0.04                |                     |
|                           |                          | Deviation       |                     | 0.12                |                     |                          | 0.12                |                     |
|                           | RMC B1                   | Right Cheek     | 1g SAR              |                     | 0.203               |                          |                     | 0.21                |
| 10g SAR                   |                          |                 |                     | 0.116               |                     |                          | 0.12                |                     |
| Deviation                 |                          |                 |                     | 0.01                |                     |                          | 0.01                |                     |
| SIM 2                     | Right Cheek              | 1g SAR          |                     | 0.198               |                     |                          | 0.20                |                     |
|                           |                          | 10g SAR         |                     | 0.113               |                     |                          | 0.12                |                     |
|                           |                          | Deviation       |                     | 0.03                |                     |                          | 0.03                |                     |

**Table 14-10 WCDMA850-BV Body**

| WCDMA850-BV Body          |                          |                 |                     |                     |                     |                          |                     |                     |  |
|---------------------------|--------------------------|-----------------|---------------------|---------------------|---------------------|--------------------------|---------------------|---------------------|--|
| Ambient Temperature: 22.5 |                          |                 |                     |                     |                     | Liquid Temperature: 23.3 |                     |                     |  |
| Mode                      | Device orientation       | SAR measurement | Measured SAR [W/kg] |                     |                     | Reported SAR [W/kg]      |                     |                     |  |
|                           |                          |                 | CH4233<br>846.6 MHz | CH4715<br>835.4 MHz | CH4132<br>826.4 MHz | CH4233<br>846.6 MHz      | CH4715<br>835.4 MHz | CH4132<br>826.4 MHz |  |
| RMC                       | Tune-up                  |                 | 24.50               | 24.50               | 24.50               | Scaling factor*          |                     |                     |  |
|                           | Slot Average Power [dBm] |                 | 24.42               | 24.39               | 24.50               | 1.02                     | 1.02                | 1.00                |  |
|                           | Front                    | 1g SAR          |                     | 0.244               |                     |                          | 0.25                |                     |  |
|                           |                          | 10g SAR         |                     | 0.182               |                     |                          | 0.19                |                     |  |
|                           |                          | Deviation       |                     | 0.1                 |                     |                          | 0.10                |                     |  |
|                           | Rear                     | 1g SAR          |                     | 0.268               |                     |                          | 0.27                |                     |  |
|                           |                          | 10g SAR         |                     | 0.201               |                     |                          | 0.21                |                     |  |
|                           |                          | Deviation       |                     | 0.08                |                     |                          | 0.08                |                     |  |
|                           | Bottom edge              | 1g SAR          |                     | 0.216               |                     |                          | 0.22                |                     |  |
|                           |                          | 10g SAR         |                     | 0.107               |                     |                          | 0.11                |                     |  |
|                           |                          | Deviation       |                     | 0.16                |                     |                          | 0.16                |                     |  |
|                           | Left edge                | 1g SAR          |                     | 0.191               |                     |                          | 0.20                |                     |  |
|                           |                          | 10g SAR         |                     | 0.126               |                     |                          | 0.13                |                     |  |
|                           |                          | Deviation       |                     | 0.03                |                     |                          | 0.03                |                     |  |
|                           | Right edge               | 1g SAR          | 0.331               | 0.374               | 0.318               | 0.34                     | 0.38                | 0.32                |  |
|                           |                          | 10g SAR         | 0.219               | 0.256               | 0.211               | 0.22                     | 0.26                | 0.21                |  |
|                           |                          | Deviation       | -0.1                | -0.12               | 0.08                | -0.10                    | -0.12               | 0.08                |  |
|                           | SIM2                     | Right edge      | 1g SAR              |                     | 0.348               |                          |                     | 0.36                |  |
|                           |                          |                 | 10g SAR             |                     | 0.227               |                          |                     | 0.23                |  |
|                           |                          |                 | Deviation           |                     | -0.07               |                          |                     | -0.07               |  |
|                           | RMC B1                   | Right edge      | 1g SAR              |                     | 0.359               |                          |                     | 0.37                |  |
| 10g SAR                   |                          |                 |                     | 0.237               |                     |                          | 0.24                |                     |  |
| Deviation                 |                          |                 |                     | 0.1                 |                     |                          | 0.10                |                     |  |

**Table 14-11 LTE1900-FDD2  
Head**

| LTE1900-FDD2 Head         |                      |                 |                          |       |       |                     |       |       |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 19100                    | 18900 | 18700 | 19100               | 18900 | 18700 |
|                           |                      |                 | M                        | H     | M     | M                   | H     | M     |
| 20MHz QPSK1RB             | Tune-up              |                 | 24.90                    | 24.90 | 24.90 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 24.49                    | 24.02 | 24.25 | 1.10                | 1.22  | 1.16  |
|                           | Left Cheek           | 1g SAR          | 0.328                    |       |       | 0.36                |       |       |
|                           |                      | 10g SAR         | 0.208                    |       |       | 0.23                |       |       |
|                           |                      | Deviation       | -0.06                    |       |       | -0.06               |       |       |
|                           | Left Tilt            | 1g SAR          | 0.122                    |       |       | 0.13                |       |       |
|                           |                      | 10g SAR         | 0.085                    |       |       | 0.09                |       |       |
|                           |                      | Deviation       | 0.08                     |       |       | 0.08                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.185                    |       |       | 0.20                |       |       |
|                           |                      | 10g SAR         | 0.131                    |       |       | 0.14                |       |       |
|                           |                      | Deviation       | 0.11                     |       |       | 0.11                |       |       |
|                           | Right Tilt           | 1g SAR          | 0.119                    |       |       | 0.13                |       |       |
| 10g SAR                   |                      | 0.065           |                          |       | 0.07  |                     |       |       |
| Deviation                 |                      | -0.06           |                          |       | -0.06 |                     |       |       |
| TRUE                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 19100                    | 18900 | 18700 | 19100               | 18900 | 18700 |
|                           |                      |                 | H                        | H     | L     | H                   | H     | L     |
| 20MHz QPSK50%RB           | Tune-up              |                 | 23.90                    | 23.90 | 23.90 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.20                    | 23.11 | 23.12 | 1.18                | 1.20  | 1.20  |
|                           | Left Cheek           | 1g SAR          | 0.249                    |       |       | 0.29                |       |       |
|                           |                      | 10g SAR         | 0.159                    |       |       | 0.19                |       |       |
|                           |                      | Deviation       | 0.04                     |       |       | 0.04                |       |       |
|                           | Left Tilt            | 1g SAR          | 0.091                    |       |       | 0.11                |       |       |
|                           |                      | 10g SAR         | 0.063                    |       |       | 0.07                |       |       |
|                           |                      | Deviation       | 0.18                     |       |       | 0.18                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.151                    |       |       | 0.18                |       |       |
|                           |                      | 10g SAR         | 0.107                    |       |       | 0.13                |       |       |
|                           |                      | Deviation       | 0.06                     |       |       | 0.06                |       |       |
|                           | Right Tilt           | 1g SAR          | 0.087                    |       |       | 0.10                |       |       |
| 10g SAR                   |                      | 0.047           |                          |       | 0.06  |                     |       |       |
| Deviation                 |                      | 0.11            |                          |       | 0.11  |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 19100                    | 18900 | 18700 | 19100               | 18900 | 18700 |
| 20MHz QPSK100%RB          | Tune-up              |                 | 23.90                    | 23.90 | 23.90 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.13                    | 23.19 | 23.13 | 1.19                | 1.18  | 1.19  |
|                           | Left Cheek           | 1g SAR          |                          |       |       |                     |       |       |
| 10g SAR                   |                      |                 |                          |       |       |                     |       |       |
| Deviation                 |                      |                 |                          |       |       |                     |       |       |
| 20MHz QPSK1RB B1          | Left Cheek           | 1g SAR          | 0.304                    |       |       | 0.33                |       |       |
|                           |                      | 10g SAR         | 0.197                    |       |       | 0.22                |       |       |
|                           |                      | Deviation       | -0.12                    |       |       | -0.12               |       |       |
| SIM 2                     | Left Cheek           | 1g SAR          | 0.311                    |       |       | 0.34                |       |       |
|                           |                      | 10g SAR         | 0.202                    |       |       | 0.22                |       |       |
|                           |                      | Deviation       | -0.09                    |       |       | -0.09               |       |       |

**Table 14-12 LTE1900-FDD2 Body**

| LTE1900-FDD2 Body         |                      |                 |                          |       |       |                     |       |       |  |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|--|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |  |
|                           |                      |                 | 19100                    | 18900 | 18700 | 19100               | 18900 | 18700 |  |
|                           |                      |                 | M                        | H     | M     | M                   | H     | M     |  |
| 20MHz QPSK1RB             | Tune-up              |                 | 24.90                    | 24.90 | 24.90 | Scaling factor*     |       |       |  |
|                           | Measured Power [dBm] |                 | 24.49                    | 24.02 | 24.25 | 1.10                | 1.22  | 1.16  |  |
|                           | Front                | 1g SAR          | 0.426                    |       |       | 0.47                |       |       |  |
|                           |                      | 10g SAR         | 0.233                    |       |       | 0.26                |       |       |  |
|                           |                      | Deviation       | -0.03                    |       |       | -0.03               |       |       |  |
|                           | Rear                 | 1g SAR          | 0.335                    |       |       | 0.37                |       |       |  |
|                           |                      | 10g SAR         | 0.192                    |       |       | 0.21                |       |       |  |
|                           |                      | Deviation       | -0.01                    |       |       | -0.01               |       |       |  |
|                           | Bottom edge          | 1g SAR          | 0.327                    |       |       | 0.36                |       |       |  |
|                           |                      | 10g SAR         | 0.161                    |       |       | 0.18                |       |       |  |
|                           |                      | Deviation       | 0.18                     |       |       | 0.18                |       |       |  |
|                           | Left edge            | 1g SAR          | 0.371                    |       |       | 0.41                |       |       |  |
|                           |                      | 10g SAR         | 0.204                    |       |       | 0.22                |       |       |  |
|                           |                      | Deviation       | 0.04                     |       |       | 0.04                |       |       |  |
|                           | Right edge           | 1g SAR          | 0.0532                   |       |       | 0.06                |       |       |  |
| 10g SAR                   |                      | 0.0374          |                          |       | 0.04  |                     |       |       |  |
| Deviation                 |                      | -0.14           |                          |       | -0.14 |                     |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |  |
|                           |                      |                 | 19100                    | 18900 | 18700 | 19100               | 18900 | 18700 |  |
|                           |                      |                 | H                        | H     | L     |                     |       |       |  |
| 20MHz QPSK50%RB           | Tune-up              |                 | 23.90                    | 23.90 | 23.90 | Scaling factor*     |       |       |  |
|                           | Measured Power [dBm] |                 | 23.20                    | 23.11 | 23.12 | 1.18                | 1.20  | 1.20  |  |
|                           | Front                | 1g SAR          | 0.333                    |       |       | 0.39                |       |       |  |
|                           |                      | 10g SAR         | 0.183                    |       |       | 0.22                |       |       |  |
|                           |                      | Deviation       | 0.09                     |       |       | 0.09                |       |       |  |
|                           | Rear                 | 1g SAR          | 0.274                    |       |       | 0.32                |       |       |  |
|                           |                      | 10g SAR         | 0.157                    |       |       | 0.18                |       |       |  |
|                           |                      | Deviation       | -0.01                    |       |       | -0.01               |       |       |  |
|                           | Bottom edge          | 1g SAR          | 0.258                    |       |       | 0.30                |       |       |  |
|                           |                      | 10g SAR         | 0.127                    |       |       | 0.15                |       |       |  |
|                           |                      | Deviation       | -0.06                    |       |       | -0.06               |       |       |  |
|                           | Left edge            | 1g SAR          | 0.306                    |       |       | 0.36                |       |       |  |
|                           |                      | 10g SAR         | 0.169                    |       |       | 0.20                |       |       |  |
|                           |                      | Deviation       | -0.06                    |       |       | -0.06               |       |       |  |
|                           | Right edge           | 1g SAR          | 0.048                    |       |       | 0.06                |       |       |  |
| 10g SAR                   |                      | 0.0268          |                          |       | 0.03  |                     |       |       |  |
| Deviation                 |                      | 0.11            |                          |       | 0.11  |                     |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |  |
|                           |                      |                 | 19100                    | 18900 | 18700 | 19100               | 18900 | 18700 |  |
| 20MHz QPSK100%RB          | Tune-up              |                 | 23.90                    | 23.90 | 23.90 | Scaling factor*     |       |       |  |
|                           | Measured Power [dBm] |                 | 23.13                    | 23.19 | 23.13 | 1.19                | 1.18  | 1.19  |  |
|                           | Front                | 1g SAR          |                          |       |       |                     |       |       |  |
|                           |                      | 10g SAR         |                          |       |       |                     |       |       |  |
| 20MHz QPSK1RB B1          | Front                | 1g SAR          | 0.412                    |       |       | 0.45                |       |       |  |
|                           |                      | 10g SAR         | 0.221                    |       |       | 0.24                |       |       |  |
|                           |                      | Deviation       | 0.11                     |       |       | 0.11                |       |       |  |
| SIM 2                     | Front                | 1g SAR          | 0.407                    |       |       | 0.45                |       |       |  |
|                           |                      | 10g SAR         | 0.214                    |       |       | 0.24                |       |       |  |
|                           |                      | Deviation       | 0.05                     |       |       | 0.05                |       |       |  |

**Table 14-13 LTE1700-FDD4  
Head**

| LTE1700-FDD4 Head         |                      |                 |                          |       |       |                     |       |       |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 20300                    | 20175 | 20050 | 20300               | 20175 | 20050 |
|                           |                      |                 | H                        | H     | M     | H                   | H     | M     |
| 20MHz<br>QPSK1RB          | Tune-up              |                 | 24.80                    | 24.80 | 24.80 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 24.48                    | 24.11 | 24.72 | 1.08                | 1.17  | 1.02  |
|                           | Left Cheek           | 1g SAR          |                          |       | 0.13  |                     |       | 0.13  |
|                           |                      | 10g SAR         |                          |       | 0.085 |                     |       | 0.09  |
|                           |                      | Deviation       |                          |       | -0.12 |                     |       | -0.12 |
|                           | Left Tilt            | 1g SAR          |                          |       | 0.057 |                     |       | 0.06  |
|                           |                      | 10g SAR         |                          |       | 0.035 |                     |       | 0.04  |
|                           |                      | Deviation       |                          |       | 0.08  |                     |       | 0.08  |
|                           | Right Cheek          | 1g SAR          |                          |       | 0.06  |                     |       | 0.06  |
|                           |                      | 10g SAR         |                          |       | 0.035 |                     |       | 0.04  |
|                           |                      | Deviation       |                          |       | -0.06 |                     |       | -0.06 |
|                           | Right Tilt           | 1g SAR          |                          |       | 0.059 |                     |       | 0.06  |
|                           |                      | 10g SAR         |                          |       | 0.035 |                     |       | 0.04  |
| Deviation                 |                      |                 |                          | -0.06 |       |                     | -0.06 |       |
| TRUE                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 20300                    | 20175 | 20050 | 20300               | 20175 | 20050 |
|                           |                      |                 | M                        | H     | L     | M                   | H     | L     |
| 20MHz<br>QPSK50%RB        | Tune-up              |                 | 23.80                    | 23.80 | 23.80 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.35                    | 23.04 | 23.12 | 1.11                | 1.19  | 1.17  |
|                           | Left Cheek           | 1g SAR          | 0.112                    |       |       | 0.12                |       |       |
|                           |                      | 10g SAR         | 0.073                    |       |       | 0.08                |       |       |
|                           |                      | Deviation       | 0.07                     |       |       | 0.07                |       |       |
|                           | Left Tilt            | 1g SAR          | 0.039                    |       |       | 0.04                |       |       |
|                           |                      | 10g SAR         | 0.024                    |       |       | 0.03                |       |       |
|                           |                      | Deviation       | 0.18                     |       |       | 0.18                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.062                    |       |       | 0.07                |       |       |
|                           |                      | 10g SAR         | 0.044                    |       |       | 0.05                |       |       |
|                           |                      | Deviation       | 0.04                     |       |       | 0.04                |       |       |
|                           | Right Tilt           | 1g SAR          | 0.053                    |       |       | 0.06                |       |       |
|                           |                      | 10g SAR         | 0.031                    |       |       | 0.03                |       |       |
| Deviation                 |                      | 0.15            |                          |       | 0.15  |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 20300                    | 20175 | 20050 | 20300               | 20175 | 20050 |
| 20MHz<br>QPSK100%RB       | Tune-up              |                 | 23.80                    | 23.80 | 23.80 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.26                    | 23.06 | 23.19 | 1.13                | 1.18  | 1.15  |
|                           | Left Cheek           | 1g SAR          |                          |       |       |                     |       |       |
| 10g SAR                   |                      |                 |                          |       |       |                     |       |       |
| Deviation                 |                      |                 |                          |       |       |                     |       |       |
| 20MHz<br>QPSK1RB<br>B1    | Left Cheek           | 1g SAR          |                          |       | 0.12  |                     |       | 0.12  |
|                           |                      | 10g SAR         |                          |       | 0.075 |                     |       | 0.08  |
|                           |                      | Deviation       |                          |       | 0.11  |                     |       | 0.11  |
| SIM 2                     | Left Cheek           | 1g SAR          |                          |       | 0.121 |                     |       | 0.12  |
|                           |                      | 10g SAR         |                          |       | 0.081 |                     |       | 0.08  |
|                           |                      | Deviation       |                          |       | -0.06 |                     |       | -0.06 |



Table 14-14 LTE1700-FDD4 Body

| LTE1700-FDD4 Body         |                      |                 |                          |        |        |                     |       |       |
|---------------------------|----------------------|-----------------|--------------------------|--------|--------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |        |        |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |        |        | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 20300                    | 20175  | 20050  | 20300               | 20175 | 20050 |
|                           |                      |                 | H                        | H      | M      | H                   | H     | M     |
| 20MHz QPSK1RB             | Tune-up              |                 | 24.80                    | 24.80  | 24.80  | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 24.48                    | 24.11  | 24.72  | 1.08                | 1.17  | 1.02  |
|                           | Front                | 1g SAR          |                          |        | 0.138  |                     |       | 0.14  |
|                           |                      | 10g SAR         |                          |        | 0.0853 |                     |       | 0.09  |
|                           |                      | Deviation       |                          |        | 0.09   |                     |       | 0.09  |
|                           | Rear                 | 1g SAR          |                          |        | 0.118  |                     |       | 0.12  |
|                           |                      | 10g SAR         |                          |        | 0.0793 |                     |       | 0.08  |
|                           |                      | Deviation       |                          |        | 0.12   |                     |       | 0.12  |
|                           | Bottom edge          | 1g SAR          |                          |        | 0.143  |                     |       | 0.15  |
|                           |                      | 10g SAR         |                          |        | 0.081  |                     |       | 0.08  |
|                           |                      | Deviation       |                          |        | 0.07   |                     |       | 0.07  |
|                           | Left edge            | 1g SAR          |                          |        | 0.179  |                     |       | 0.18  |
|                           |                      | 10g SAR         |                          |        | 0.109  |                     |       | 0.11  |
|                           |                      | Deviation       |                          |        | 0      |                     |       | 0.00  |
|                           | Right edge           | 1g SAR          |                          |        | 0.0912 |                     |       | 0.09  |
| 10g SAR                   |                      |                 |                          | 0.0377 |        |                     | 0.04  |       |
| Deviation                 |                      |                 |                          | 0.04   |        |                     | 0.04  |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |        |        | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 20300                    | 20175  | 20050  | 20300               | 20175 | 20050 |
|                           |                      |                 | M                        | H      | L      |                     |       |       |
| 20MHz QPSK50%RB           | Tune-up              |                 | 23.80                    | 23.80  | 23.80  | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.35                    | 23.04  | 23.12  | 1.11                | 1.19  | 1.17  |
|                           | Front                | 1g SAR          | 0.106                    |        |        | 0.12                |       |       |
|                           |                      | 10g SAR         | 0.0628                   |        |        | 0.07                |       |       |
|                           |                      | Deviation       | 0.02                     |        |        | 0.02                |       |       |
|                           | Rear                 | 1g SAR          | 0.0973                   |        |        | 0.11                |       |       |
|                           |                      | 10g SAR         | 0.0617                   |        |        | 0.07                |       |       |
|                           |                      | Deviation       | -0.11                    |        |        | -0.11               |       |       |
|                           | Bottom edge          | 1g SAR          | 0.102                    |        |        | 0.11                |       |       |
|                           |                      | 10g SAR         | 0.0631                   |        |        | 0.07                |       |       |
|                           |                      | Deviation       | -0.04                    |        |        | -0.04               |       |       |
|                           | Left edge            | 1g SAR          | 0.109                    |        |        | 0.12                |       |       |
|                           |                      | 10g SAR         | 0.0638                   |        |        | 0.07                |       |       |
|                           |                      | Deviation       | -0.02                    |        |        | -0.02               |       |       |
|                           | Right edge           | 1g SAR          | 0.0524                   |        |        | 0.06                |       |       |
| 10g SAR                   |                      | 0.0213          |                          |        | 0.02   |                     |       |       |
| Deviation                 |                      | 0.11            |                          |        | 0.11   |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |        |        | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 20300                    | 20175  | 20050  | 20300               | 20175 | 20050 |
|                           |                      |                 |                          |        |        |                     |       |       |
| 20MHz QPSK100%RB          | Tune-up              |                 | 23.80                    | 23.80  | 23.80  | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.26                    | 23.06  | 23.19  | 1.13                | 1.18  | 1.15  |
|                           | Left edge            | 1g SAR          |                          |        |        |                     |       |       |
|                           |                      | 10g SAR         |                          |        |        |                     |       |       |
| Deviation                 |                      |                 |                          |        |        |                     |       |       |
| 20MHz QPSK1RB B1          | Left edge            | 1g SAR          |                          |        | 0.149  |                     |       | 0.15  |
|                           |                      | 10g SAR         |                          |        | 0.0966 |                     |       | 0.10  |
|                           |                      | Deviation       |                          |        | 0.04   |                     |       | 0.04  |
| SIM 2                     | Left edge            | 1g SAR          |                          |        | 0.149  |                     |       | 0.15  |
|                           |                      | 10g SAR         |                          |        | 0.0879 |                     |       | 0.09  |
|                           |                      | Deviation       |                          |        | 0.14   |                     |       | 0.14  |

**Table 14-15 LTE2500-FDD7  
Head**

| LTE2500-FDD7 Head         |                      |                 |                          |       |       |                     |       |       |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 21350                    | 21100 | 20850 | 21350               | 21100 | 20850 |
|                           |                      |                 | M                        | M     | M     | M                   | M     | M     |
| 20MHz<br>QPSK1RB          | Tune-up              |                 | 24.50                    | 24.50 | 24.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.93                    | 23.55 | 23.78 | 1.14                | 1.25  | 1.18  |
|                           | Left Cheek           | 1g SAR          | 0.368                    |       |       | 0.42                |       |       |
|                           |                      | 10g SAR         | 0.206                    |       |       | 0.23                |       |       |
|                           |                      | Deviation       | 0.06                     |       |       | 0.06                |       |       |
|                           | Left Tilt            | 1g SAR          | 0.09                     |       |       | 0.10                |       |       |
|                           |                      | 10g SAR         | 0.043                    |       |       | 0.05                |       |       |
|                           |                      | Deviation       | 0.04                     |       |       | 0.04                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.203                    |       |       | 0.23                |       |       |
|                           |                      | 10g SAR         | 0.117                    |       |       | 0.13                |       |       |
|                           |                      | Deviation       | -0.09                    |       |       | -0.09               |       |       |
|                           | Right Tilt           | 1g SAR          | 0.162                    |       |       | 0.18                |       |       |
| 10g SAR                   |                      | 0.066           |                          |       | 0.08  |                     |       |       |
| Deviation                 |                      | 0.01            |                          |       | 0.01  |                     |       |       |
| TRUE                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 21350                    | 21100 | 20850 | 21350               | 21100 | 20850 |
|                           |                      |                 | M                        | H     | L     | M                   | H     | L     |
| 20MHz<br>QPSK50%RB        | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.66                    | 22.64 | 22.59 | 1.21                | 1.22  | 1.23  |
|                           | Left Cheek           | 1g SAR          | 0.283                    |       |       | 0.34                |       |       |
|                           |                      | 10g SAR         | 0.152                    |       |       | 0.18                |       |       |
|                           |                      | Deviation       | 0.17                     |       |       | 0.17                |       |       |
|                           | Left Tilt            | 1g SAR          | 0.073                    |       |       | 0.09                |       |       |
|                           |                      | 10g SAR         | 0.034                    |       |       | 0.04                |       |       |
|                           |                      | Deviation       | 0.04                     |       |       | 0.04                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.154                    |       |       | 0.19                |       |       |
|                           |                      | 10g SAR         | 0.089                    |       |       | 0.11                |       |       |
|                           |                      | Deviation       | 0.09                     |       |       | 0.09                |       |       |
|                           | Right Tilt           | 1g SAR          | 0.13                     |       |       | 0.16                |       |       |
| 10g SAR                   |                      | 0.053           |                          |       | 0.06  |                     |       |       |
| Deviation                 |                      | 0.01            |                          |       | 0.01  |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 21350                    | 21100 | 20850 | 21350               | 21100 | 20850 |
| 20MHz<br>QPSK100%RB       | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.60                    | 22.62 | 22.54 | 1.23                | 1.22  | 1.25  |
|                           | Left Cheek           | 1g SAR          |                          |       |       |                     |       |       |
| 10g SAR                   |                      |                 |                          |       |       |                     |       |       |
| Deviation                 |                      |                 |                          |       |       |                     |       |       |
| 20MHz<br>QPSK1RB<br>B1    | Left Cheek           | 1g SAR          | 0.334                    |       |       | 0.38                |       |       |
|                           |                      | 10g SAR         | 0.171                    |       |       | 0.19                |       |       |
|                           |                      | Deviation       | -0.05                    |       |       | -0.05               |       |       |
| SIM 2                     | Left Cheek           | 1g SAR          | 0.364                    |       |       | 0.41                |       |       |
|                           |                      | 10g SAR         | 0.193                    |       |       | 0.22                |       |       |
|                           |                      | Deviation       | 0.1                      |       |       | 0.10                |       |       |





Table 14-16 LTE2500-FDD7 Body

| LTE2500-FDD7 Body         |                      |                 |                          |       |       |                     |       |       |  |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|--|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |  |
|                           |                      |                 | 21350                    | 21100 | 20850 | 21350               | 21100 | 20850 |  |
|                           |                      |                 | M                        | M     | M     | M                   | M     | M     |  |
| 20MHz QPSK1RB             | Tune-up              |                 | 24.50                    | 24.50 | 24.50 | Scaling factor*     |       |       |  |
|                           | Measured Power [dBm] |                 | 23.93                    | 23.55 | 23.78 | 1.14                | 1.25  | 1.18  |  |
|                           | Front                | 1g SAR          | 0.335                    |       |       | 0.38                |       |       |  |
|                           |                      | 10g SAR         | 0.181                    |       |       | 0.21                |       |       |  |
|                           |                      | Deviation       | -0.1                     |       |       | -0.10               |       |       |  |
|                           | Rear                 | 1g SAR          | 0.382                    |       |       | 0.44                |       |       |  |
|                           |                      | 10g SAR         | 0.215                    |       |       | 0.25                |       |       |  |
|                           |                      | Deviation       | -0.04                    |       |       | -0.04               |       |       |  |
|                           | Bottom edge          | 1g SAR          | 0.324                    |       |       | 0.37                |       |       |  |
|                           |                      | 10g SAR         | 0.144                    |       |       | 0.16                |       |       |  |
|                           |                      | Deviation       | 0.09                     |       |       | 0.09                |       |       |  |
|                           | Left edge            | 1g SAR          | 0.461                    |       |       | 0.53                |       |       |  |
|                           |                      | 10g SAR         | 0.247                    |       |       | 0.28                |       |       |  |
|                           |                      | Deviation       | 0.05                     |       |       | 0.05                |       |       |  |
|                           | Right edge           | 1g SAR          | 0.0561                   |       |       | 0.06                |       |       |  |
| 10g SAR                   |                      | 0.0327          |                          |       | 0.04  |                     |       |       |  |
| Deviation                 |                      | 0.07            |                          |       | 0.07  |                     |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |  |
|                           |                      |                 | 21350                    | 21100 | 20850 | 21350               | 21100 | 20850 |  |
|                           |                      |                 | M                        | H     | L     |                     |       |       |  |
| 20MHz QPSK50%RB           | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |  |
|                           | Measured Power [dBm] |                 | 22.66                    | 22.64 | 22.59 | 1.21                | 1.22  | 1.23  |  |
|                           | Front                | 1g SAR          | 0.292                    |       |       | 0.35                |       |       |  |
|                           |                      | 10g SAR         | 0.167                    |       |       | 0.20                |       |       |  |
|                           |                      | Deviation       | 0.14                     |       |       | 0.14                |       |       |  |
|                           | Rear                 | 1g SAR          | 0.304                    |       |       | 0.37                |       |       |  |
|                           |                      | 10g SAR         | 0.179                    |       |       | 0.22                |       |       |  |
|                           |                      | Deviation       | 0.02                     |       |       | 0.02                |       |       |  |
|                           | Bottom edge          | 1g SAR          | 0.243                    |       |       | 0.30                |       |       |  |
|                           |                      | 10g SAR         | 0.108                    |       |       | 0.13                |       |       |  |
|                           |                      | Deviation       | -0.09                    |       |       | -0.09               |       |       |  |
|                           | Left edge            | 1g SAR          | 0.326                    |       |       | 0.40                |       |       |  |
|                           |                      | 10g SAR         | 0.173                    |       |       | 0.21                |       |       |  |
|                           |                      | Deviation       | -0.1                     |       |       | -0.10               |       |       |  |
|                           | Right edge           | 1g SAR          | 0.0506                   |       |       | 0.06                |       |       |  |
| 10g SAR                   |                      | 0.0266          |                          |       | 0.03  |                     |       |       |  |
| Deviation                 |                      | 0.19            |                          |       | 0.19  |                     |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |  |
|                           |                      |                 | 21350                    | 21100 | 20850 | 21350               | 21100 | 20850 |  |
| 20MHz QPSK100%RB          | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |  |
|                           | Measured Power [dBm] |                 | 22.60                    | 22.62 | 22.54 | 1.23                | 1.22  | 1.25  |  |
|                           | Front                | 1g SAR          |                          |       |       |                     |       |       |  |
| 10g SAR                   |                      |                 |                          |       |       |                     |       |       |  |
| Deviation                 |                      |                 |                          |       |       |                     |       |       |  |
| 20MHz QPSK1RB B1          | Left edge            | 1g SAR          | 0.418                    |       |       | 0.48                |       |       |  |
|                           |                      | 10g SAR         | 0.224                    |       |       | 0.26                |       |       |  |
|                           |                      | Deviation       | 0.1                      |       |       | 0.10                |       |       |  |
| SIM 2                     | Left edge            | 1g SAR          | 0.405                    |       |       | 0.46                |       |       |  |
|                           |                      | 10g SAR         | 0.219                    |       |       | 0.25                |       |       |  |
|                           |                      | Deviation       | 0.16                     |       |       | 0.16                |       |       |  |

**Table14-17 LTE700-FDD12  
Head**

| LTE700-FDD12 Head         |                      |                 |                          |       |       |                     |       |       |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 23130                    | 23095 | 23060 | 23130               | 23095 | 23060 |
|                           |                      |                 | M                        | M     | M     | M                   | M     | M     |
| 10MHz QPSK1RB             | Tune-up              |                 | 25.00                    | 25.00 | 25.00 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.95                    | 23.93 | 23.86 | 1.27                | 1.28  | 1.30  |
|                           | Left Cheek           | 1g SAR          | 0.1                      |       |       | 0.13                |       |       |
|                           |                      | 10g SAR         | 0.088                    |       |       | 0.11                |       |       |
|                           |                      | Deviation       | 0.03                     |       |       | 0.03                |       |       |
|                           | Left Tilt            | 1g SAR          | 0.057                    |       |       | 0.07                |       |       |
|                           |                      | 10g SAR         | 0.025                    |       |       | 0.03                |       |       |
|                           |                      | Deviation       | 0.01                     |       |       | 0.01                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.124                    |       |       | 0.16                |       |       |
|                           |                      | 10g SAR         | 0.098                    |       |       | 0.12                |       |       |
|                           |                      | Deviation       | 0.02                     |       |       | 0.02                |       |       |
|                           | Right Tilt           | 1g SAR          | 0.07                     |       |       | 0.09                |       |       |
| 10g SAR                   |                      | 0.06            |                          |       | 0.08  |                     |       |       |
| Deviation                 |                      | 0.03            |                          |       | 0.03  |                     |       |       |
| TRUE                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 23130                    | 23095 | 23060 | 23130               | 23095 | 23060 |
|                           |                      |                 | L                        | M     | M     | L                   | M     | M     |
| 10MHz QPSK50%RB           | Tune-up              |                 | 24.00                    | 24.00 | 24.00 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.92                    | 22.87 | 22.84 | 1.28                | 1.30  | 1.31  |
|                           | Left Cheek           | 1g SAR          | 0.078                    |       |       | 0.10                |       |       |
|                           |                      | 10g SAR         | 0.066                    |       |       | 0.08                |       |       |
|                           |                      | Deviation       | 0.08                     |       |       | 0.08                |       |       |
|                           | Left Tilt            | 1g SAR          | 0.04                     |       |       | 0.05                |       |       |
|                           |                      | 10g SAR         | 0.02                     |       |       | 0.03                |       |       |
|                           |                      | Deviation       | 0.03                     |       |       | 0.03                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.094                    |       |       | 0.12                |       |       |
|                           |                      | 10g SAR         | 0.075                    |       |       | 0.10                |       |       |
|                           |                      | Deviation       | -0.09                    |       |       | -0.09               |       |       |
|                           | Right Tilt           | 1g SAR          | 0.054                    |       |       | 0.07                |       |       |
| 10g SAR                   |                      | 0.045           |                          |       | 0.06  |                     |       |       |
| Deviation                 |                      | 0.13            |                          |       | 0.13  |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 23130                    | 23095 | 23060 | 23130               | 23095 | 23060 |
| 10MHz QPSK100%RB          | Tune-up              |                 | 24.00                    | 24.00 | 24.00 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.91                    | 22.85 | 22.69 | 1.28                | 1.30  | 1.35  |
|                           | Left Cheek           | 1g SAR          |                          |       |       |                     |       |       |
| 10g SAR                   |                      |                 |                          |       |       |                     |       |       |
| Deviation                 |                      |                 |                          |       |       |                     |       |       |
| 10MHz QPSK1RB B1          | Right Cheek          | 1g SAR          | 0.096                    |       |       | 0.12                |       |       |
|                           |                      | 10g SAR         | 0.076                    |       |       | 0.10                |       |       |
|                           |                      | Deviation       | 0.08                     |       |       | 0.08                |       |       |
| SIM 1                     | Right Cheek          | 1g SAR          | 0.098                    |       |       | 0.12                |       |       |
|                           |                      | 10g SAR         | 0.085                    |       |       | 0.11                |       |       |
|                           |                      | Deviation       | 0.19                     |       |       | 0.19                |       |       |



Table 14-18 LTE700-FDD12 Body

| LTE700-FDD12 Body         |                      |                 |                     |       |       |                          |       |       |  |
|---------------------------|----------------------|-----------------|---------------------|-------|-------|--------------------------|-------|-------|--|
| Ambient Temperature: 22.5 |                      |                 |                     |       |       | Liquid Temperature: 23.3 |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg] |       |       | Reported SAR [W/kg]      |       |       |  |
|                           |                      |                 | 23130               | 23095 | 23060 | 23130                    | 23095 | 23060 |  |
|                           |                      |                 | M                   | M     | M     | M                        | M     | M     |  |
| 10MHz QPSK1RB             | Tune-up              |                 | 25.00               | 25.00 | 25.00 | Scaling factor*          |       |       |  |
|                           | Measured Power [dBm] |                 | 23.95               | 23.93 | 23.86 | 1.27                     | 1.28  | 1.30  |  |
|                           | Front                | 1g SAR          | 0.133               |       |       | 0.17                     |       |       |  |
|                           |                      | 10g SAR         | 0.106               |       |       | 0.14                     |       |       |  |
|                           |                      | Deviation       | 0.12                |       |       | 0.12                     |       |       |  |
|                           | Rear                 | 1g SAR          | 0.108               |       |       | 0.14                     |       |       |  |
|                           |                      | 10g SAR         | 0.0852              |       |       | 0.11                     |       |       |  |
|                           |                      | Deviation       | 0.04                |       |       | 0.04                     |       |       |  |
|                           | Bottom edge          | 1g SAR          | 0.0426              |       |       | 0.05                     |       |       |  |
|                           |                      | 10g SAR         | 0.0237              |       |       | 0.03                     |       |       |  |
|                           |                      | Deviation       | 0.06                |       |       | 0.06                     |       |       |  |
|                           | Left edge            | 1g SAR          | 0.124               |       |       | 0.16                     |       |       |  |
|                           |                      | 10g SAR         | 0.0867              |       |       | 0.11                     |       |       |  |
|                           |                      | Deviation       | 0.16                |       |       | 0.16                     |       |       |  |
|                           | Right edge           | 1g SAR          | 0.182               |       |       | 0.23                     |       |       |  |
| 10g SAR                   |                      | 0.129           |                     |       | 0.16  |                          |       |       |  |
| Deviation                 |                      | -0.08           |                     |       | -0.08 |                          |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg] |       |       | Reported SAR [W/kg]      |       |       |  |
|                           |                      |                 | 23130               | 23095 | 23060 | 23130                    | 23095 | 23060 |  |
|                           |                      |                 | L                   | M     | M     |                          |       |       |  |
| 10MHz QPSK50%RB           | Tune-up              |                 | 24.00               | 24.00 | 24.00 | Scaling factor*          |       |       |  |
|                           | Measured Power [dBm] |                 | 22.92               | 22.87 | 22.84 | 1.28                     | 1.30  | 1.31  |  |
|                           | Front                | 1g SAR          | 0.0982              |       |       | 0.13                     |       |       |  |
|                           |                      | 10g SAR         | 0.0778              |       |       | 0.10                     |       |       |  |
|                           |                      | Deviation       | -0.05               |       |       | -0.05                    |       |       |  |
|                           | Rear                 | 1g SAR          | 0.0783              |       |       | 0.10                     |       |       |  |
|                           |                      | 10g SAR         | 0.0615              |       |       | 0.08                     |       |       |  |
|                           |                      | Deviation       | 0.08                |       |       | 0.08                     |       |       |  |
|                           | Bottom edge          | 1g SAR          | 0.0309              |       |       | 0.04                     |       |       |  |
|                           |                      | 10g SAR         | 0.017               |       |       | 0.02                     |       |       |  |
|                           |                      | Deviation       | 0.06                |       |       | 0.06                     |       |       |  |
|                           | Left edge            | 1g SAR          | 0.09                |       |       | 0.12                     |       |       |  |
|                           |                      | 10g SAR         | 0.063               |       |       | 0.08                     |       |       |  |
|                           |                      | Deviation       | 0.03                |       |       | 0.03                     |       |       |  |
|                           | Right edge           | 1g SAR          | 0.135               |       |       | 0.17                     |       |       |  |
| 10g SAR                   |                      | 0.0949          |                     |       | 0.12  |                          |       |       |  |
| Deviation                 |                      | -0.04           |                     |       | -0.04 |                          |       |       |  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg] |       |       | Reported SAR [W/kg]      |       |       |  |
|                           |                      |                 | 23130               | 23095 | 23060 | 23130                    | 23095 | 23060 |  |
| 10MHz QPSK100%RB          | Tune-up              |                 | 24.00               | 24.00 | 24.00 | Scaling factor*          |       |       |  |
|                           | Measured Power [dBm] |                 | 22.91               | 22.85 | 22.69 | 1.28                     | 1.30  | 1.35  |  |
|                           | Front                | 1g SAR          |                     |       |       |                          |       |       |  |
|                           |                      | 10g SAR         |                     |       |       |                          |       |       |  |
| Deviation                 |                      |                 |                     |       |       |                          |       |       |  |
| 10MHz QPSK1RB B1          | Right edge           | 1g SAR          | 0.177               |       |       | 0.23                     |       |       |  |
|                           |                      | 10g SAR         | 0.121               |       |       | 0.15                     |       |       |  |
|                           |                      | Deviation       | 0.03                |       |       | 0.03                     |       |       |  |
| SIM 2                     | Right edge           | 1g SAR          | 0.168               |       |       | 0.21                     |       |       |  |
|                           |                      | 10g SAR         | 0.117               |       |       | 0.15                     |       |       |  |
|                           |                      | Deviation       | -0.12               |       |       | -0.12                    |       |       |  |

Table 14-19 LTE2600-FDD38 Head

| LTE2600-TDD38 Head        |                      |                 |                          |       |       |                     |       |       |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 38150                    | 38000 | 37850 | 38150               | 38000 | 37850 |
|                           |                      |                 | M                        | H     | H     | M                   | H     | H     |
| 20MHz QPSK1RB             | Tune-up              |                 | 24.50                    | 24.50 | 24.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.74                    | 23.50 | 23.52 | 1.19                | 1.26  | 1.25  |
|                           | Left Cheek           | 1g SAR          | 0.2                      |       |       | 0.24                |       |       |
|                           |                      | 10g SAR         | 0.101                    |       |       | 0.12                |       |       |
|                           |                      | Deviation       | 0.02                     |       |       | 0.02                |       |       |
|                           | Left Tilt            | 1g SAR          | 0.051                    |       |       | 0.06                |       |       |
|                           |                      | 10g SAR         | 0.026                    |       |       | 0.03                |       |       |
|                           |                      | Deviation       | 0.12                     |       |       | 0.12                |       |       |
|                           | Right Cheek          | 1g SAR          | 0.081                    |       |       | 0.10                |       |       |
|                           |                      | 10g SAR         | 0.046                    |       |       | 0.05                |       |       |
|                           |                      | Deviation       | 0.09                     |       |       | 0.09                |       |       |
|                           | Right Tilt           | 1g SAR          | 0.055                    |       |       | 0.07                |       |       |
|                           |                      | 10g SAR         | 0.028                    |       |       | 0.03                |       |       |
|                           |                      | Deviation       | -0.14                    |       |       | -0.14               |       |       |
| TRUE                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 38150                    | 38000 | 37850 | 38150               | 38000 | 37850 |
|                           |                      |                 | L                        | H     | L     | L                   | H     | L     |
| 20MHz QPSK50%RB           | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.51                    | 22.49 | 22.53 | 1.26                | 1.26  | 1.25  |
|                           | Left Cheek           | 1g SAR          |                          |       | 0.144 |                     |       | 0.18  |
|                           |                      | 10g SAR         |                          |       | 0.077 |                     |       | 0.10  |
|                           |                      | Deviation       |                          |       | 0.08  |                     |       | 0.08  |
|                           | Left Tilt            | 1g SAR          |                          |       | 0.09  |                     |       | 0.11  |
|                           |                      | 10g SAR         |                          |       | 0.042 |                     |       | 0.05  |
|                           |                      | Deviation       |                          |       | 0.06  |                     |       | 0.06  |
|                           | Right Cheek          | 1g SAR          |                          |       | 0.065 |                     |       | 0.08  |
|                           |                      | 10g SAR         |                          |       | 0.037 |                     |       | 0.05  |
|                           |                      | Deviation       |                          |       | -0.05 |                     |       | -0.05 |
|                           | Right Tilt           | 1g SAR          |                          |       | 0.07  |                     |       | 0.09  |
|                           |                      | 10g SAR         |                          |       | 0.033 |                     |       | 0.04  |
|                           |                      | Deviation       |                          |       | 0.03  |                     |       | 0.03  |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 38150                    | 38000 | 37850 | 38150               | 38000 | 37850 |
|                           |                      |                 |                          |       |       |                     |       |       |
| 20MHz QPSK100%RB          | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.41                    | 22.44 | 22.43 | 1.29                | 1.28  | 1.28  |
|                           | Left Cheek           | 1g SAR          |                          |       |       |                     |       |       |
|                           |                      | 10g SAR         |                          |       |       |                     |       |       |
| Deviation                 |                      |                 |                          |       |       |                     |       |       |
| 20MHz QPSK1RB B1          | Left Cheek           | 1g SAR          | 0.164                    |       |       | 0.20                |       |       |
|                           |                      | 10g SAR         | 0.084                    |       |       | 0.10                |       |       |
|                           |                      | Deviation       | 0.08                     |       |       | 0.08                |       |       |
| SIM2                      | Left Cheek           | 1g SAR          | 0.151                    |       |       | 0.18                |       |       |
|                           |                      | 10g SAR         | 0.082                    |       |       | 0.10                |       |       |
|                           |                      | Deviation       | 0.01                     |       |       | 0.01                |       |       |

Table 14-20 LTE2600-FDD38 Body

| LTE2600-TDD38 Body        |                      |                 |                          |       |       |                     |       |       |
|---------------------------|----------------------|-----------------|--------------------------|-------|-------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                      |                 | Liquid Temperature: 23.3 |       |       |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 38150                    | 38000 | 37850 | 38150               | 38000 | 37850 |
|                           |                      |                 | M                        | H     | H     | M                   | H     | H     |
| 20MHz QPSK1RB             | Tune-up              |                 | 24.50                    | 24.50 | 24.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 23.74                    | 23.50 | 23.52 | 1.19                | 1.26  | 1.25  |
|                           | Front                | 1g SAR          | 0.146                    |       |       | 0.17                |       |       |
|                           |                      | 10g SAR         | 0.083                    |       |       | 0.10                |       |       |
|                           |                      | Deviation       | 0.05                     |       |       | 0.05                |       |       |
|                           | Rear                 | 1g SAR          | 0.104                    |       |       | 0.12                |       |       |
|                           |                      | 10g SAR         | 0.064                    |       |       | 0.08                |       |       |
|                           |                      | Deviation       | 0.08                     |       |       | 0.08                |       |       |
|                           | Bottom edge          | 1g SAR          | 0.106                    |       |       | 0.13                |       |       |
|                           |                      | 10g SAR         | 0.052                    |       |       | 0.06                |       |       |
|                           |                      | Deviation       | 0.03                     |       |       | 0.03                |       |       |
|                           | Left edge            | 1g SAR          | 0.12                     |       |       | 0.14                |       |       |
|                           |                      | 10g SAR         | 0.069                    |       |       | 0.08                |       |       |
|                           |                      | Deviation       | -0.01                    |       |       | -0.01               |       |       |
| Right edge                | 1g SAR               | 0.024           |                          |       | 0.03  |                     |       |       |
|                           | 10g SAR              | 0.012           |                          |       | 0.01  |                     |       |       |
|                           | Deviation            | -0.03           |                          |       | -0.03 |                     |       |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 38150                    | 38000 | 37850 | 38150               | 38000 | 37850 |
|                           |                      |                 | L                        | H     | L     |                     |       |       |
| 20MHz QPSK50%RB           | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.51                    | 22.49 | 22.53 | 1.26                | 1.26  | 1.25  |
|                           | Front                | 1g SAR          |                          |       | 0.087 |                     |       | 0.11  |
|                           |                      | 10g SAR         |                          |       | 0.05  |                     |       | 0.06  |
|                           |                      | Deviation       |                          |       | 0.01  |                     |       | 0.01  |
|                           | Rear                 | 1g SAR          |                          |       | 0.084 |                     |       | 0.11  |
|                           |                      | 10g SAR         |                          |       | 0.053 |                     |       | 0.07  |
|                           |                      | Deviation       |                          |       | 0.09  |                     |       | 0.09  |
|                           | Bottom edge          | 1g SAR          |                          |       | 0.065 |                     |       | 0.08  |
|                           |                      | 10g SAR         |                          |       | 0.034 |                     |       | 0.04  |
|                           |                      | Deviation       |                          |       | 0.01  |                     |       | 0.01  |
|                           | Left edge            | 1g SAR          |                          |       | 0.091 |                     |       | 0.11  |
|                           |                      | 10g SAR         |                          |       | 0.052 |                     |       | 0.07  |
|                           |                      | Deviation       |                          |       | 0.05  |                     |       | 0.05  |
| Right edge                | 1g SAR               |                 |                          | 0.019 |       |                     | 0.02  |       |
|                           | 10g SAR              |                 |                          | 0.009 |       |                     | 0.01  |       |
|                           | Deviation            |                 |                          | -0.08 |       |                     | -0.08 |       |
| Mode                      | Device orientation   | SAR measurement | Measured SAR [W/kg]      |       |       | Reported SAR [W/kg] |       |       |
|                           |                      |                 | 38150                    | 38000 | 37850 | 38150               | 38000 | 37850 |
| 20MHz QPSK100%RB          | Tune-up              |                 | 23.50                    | 23.50 | 23.50 | Scaling factor*     |       |       |
|                           | Measured Power [dBm] |                 | 22.41                    | 22.44 | 22.43 | 1.29                | 1.28  | 1.28  |
| 20MHz QPSK1RB B1          | Front                | 1g SAR          | 0.122                    |       |       | 0.15                |       |       |
|                           |                      | 10g SAR         | 0.071                    |       |       | 0.08                |       |       |
|                           |                      | Deviation       | 0.12                     |       |       | 0.12                |       |       |
| SIM 2                     | Front                | 1g SAR          | 0.124                    |       |       | 0.15                |       |       |
|                           |                      | 10g SAR         | 0.072                    |       |       | 0.09                |       |       |
|                           |                      | Deviation       | -0.09                    |       |       | -0.09               |       |       |



14.3 Full SAR

| Test Band     | Channel | Frequency  | Tune-Up | Measured Power | Test Position | Measured 10g SAR | Measured 1g SAR | Reported 10g SAR | Reported 1g SAR | Power Drift | Figure                   |
|---------------|---------|------------|---------|----------------|---------------|------------------|-----------------|------------------|-----------------|-------------|--------------------------|
| GSM850        | 128     | 824.2 MHz  | 33.6    | 33.49          | Right Cheek   | 0.138            | 0.178           | 0.14             | 0.18            | -0.06       | <a href="#">Fig A.1</a>  |
| GSM850        | 128     | 824.2 MHz  | 29      | 28.80          | Right edge    | 0.209            | 0.305           | 0.22             | 0.32            | 0.08        | <a href="#">Fig A.2</a>  |
| PCS1900       | 661     | 1880 MHz   | 31      | 30.92          | Left Cheek    | 0.122            | 0.19            | 0.12             | 0.19            | -0.02       | <a href="#">Fig A.3</a>  |
| PCS1900       | 512     | 1850.2 MHz | 28      | 27.85          | Left edge     | 0.338            | 0.558           | 0.35             | 0.58            | -0.12       | <a href="#">Fig A.4</a>  |
| WCDMA1900-BII | 9538    | 1907.6 MHz | 24.5    | 24.24          | Left Cheek    | 0.315            | 0.499           | 0.33             | 0.53            | 0.06        | <a href="#">Fig A.5</a>  |
| WCDMA1900-BII | 9400    | 1880 MHz   | 24.5    | 23.99          | Left edge     | 0.332            | 0.549           | 0.37             | 0.62            | -0.16       | <a href="#">Fig A.6</a>  |
| WCDMA1700-BIV | 1513    | 1752.6 MHz | 24.5    | 24.03          | Left Cheek    | 0.178            | 0.268           | 0.20             | 0.30            | 0.18        | <a href="#">Fig A.7</a>  |
| WCDMA1700-BIV | 1513    | 1752.6 MHz | 24.5    | 24.03          | Bottom edge   | 0.2              | 0.375           | 0.22             | 0.42            | -0.18       | <a href="#">Fig A.8</a>  |
| WCDMA850-BV   | 4715    | 835.4 MHz  | 24.5    | 24.39          | Right Cheek   | 0.17             | 0.22            | 0.17             | 0.23            | -0.05       | <a href="#">Fig A.9</a>  |
| WCDMA850-BV   | 4715    | 835.4 MHz  | 24.5    | 24.39          | Right edge    | 0.256            | 0.374           | 0.26             | 0.38            | -0.12       | <a href="#">Fig A.10</a> |
| LTE1900-FDD2  | 19100   | 1900 MHz   | 24.9    | 24.49          | Left Cheek    | 0.208            | 0.328           | 0.23             | 0.36            | -0.06       | <a href="#">Fig A.11</a> |
| LTE1900-FDD2  | 19100   | 1900 MHz   | 24.9    | 24.49          | Front         | 0.233            | 0.426           | 0.26             | 0.47            | -0.03       | <a href="#">Fig A.12</a> |
| LTE1700-FDD4  | 20050   | 1720 MHz   | 24.8    | 24.72          | Left Cheek    | 0.085            | 0.13            | 0.09             | 0.13            | -0.12       | <a href="#">Fig A.13</a> |
| LTE1700-FDD4  | 20050   | 1720 MHz   | 24.8    | 24.72          | Left edge     | 0.109            | 0.179           | 0.11             | 0.18            | 0           | <a href="#">Fig A.14</a> |
| LTE2500-FDD7  | 21350   | 2560 MHz   | 24.5    | 23.93          | Left Cheek    | 0.206            | 0.368           | 0.23             | 0.42            | 0.06        | <a href="#">Fig A.15</a> |
| LTE2500-FDD7  | 21350   | 2560 MHz   | 24.5    | 23.93          | Left edge     | 0.247            | 0.461           | 0.28             | 0.53            | 0.05        | <a href="#">Fig A.16</a> |
| LTE700-FDD12  | 23130   | 711 MHz    | 25      | 23.95          | Right Cheek   | 0.098            | 0.124           | 0.12             | 0.16            | 0.02        | <a href="#">Fig A.17</a> |
| LTE700-FDD12  | 23130   | 711 MHz    | 25      | 23.95          | Right edge    | 0.129            | 0.182           | 0.16             | 0.23            | -0.08       | <a href="#">Fig A.18</a> |
| LTE2600-TDD38 | 38150   | 2610 MHz   | 24.5    | 23.74          | Left Cheek    | 0.101            | 0.2             | 0.12             | 0.24            | 0.02        | <a href="#">Fig A.19</a> |
| LTE2600-TDD38 | 38150   | 2610 MHz   | 24.5    | 23.74          | Front         | 0.083            | 0.146           | 0.10             | 0.17            | 0.05        | <a href="#">Fig A.20</a> |

### 14.4 WLAN Evaluation For 2.4G

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

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

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 ≤ 1.2 W/kg or all required channels are tested.

Note3: 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 14.4-1 WLAN 2450 head**

| WLAN 2450 Head Fast SAR   |                          |                 |                     |                          |               |                     |      |       |
|---------------------------|--------------------------|-----------------|---------------------|--------------------------|---------------|---------------------|------|-------|
| Ambient Temperature: 22.5 |                          |                 |                     | Liquid Temperature: 23.3 |               |                     |      |       |
| Rate                      | Device orientation       | SAR measurement | Measured SAR [W/kg] |                          |               | Reported SAR [W/kg] |      |       |
|                           |                          |                 | 11<br>2462 MHz      | 6<br>2437 MHz            | 1<br>2412 MHz | 11                  | 6    | 1     |
| 802.11b 1Mbps             | Tune up                  |                 | 16                  | 16                       | 16            | Scaling factor*     |      |       |
|                           | Slot Average Power [dBm] |                 | 15.76               | 15.79                    | 15.94         | 1.06                | 1.05 | 1.01  |
|                           | Left Cheek               | 1g Fast SAR     |                     |                          | 0.553         |                     |      | 0.56  |
|                           |                          | 10g SAR         |                     |                          | 0.286         |                     |      | 0.29  |
|                           |                          | Deviation       |                     |                          | 0.08          |                     |      | 0.08  |
|                           | Left Tilt                | 1g Fast SAR     |                     |                          | 0.435         |                     |      | 0.44  |
|                           |                          | 10g SAR         |                     |                          | 0.202         |                     |      | 0.20  |
|                           |                          | Deviation       |                     |                          | 0.19          |                     |      | 0.19  |
|                           | Right Cheek              | 1g Fast SAR     |                     |                          | 1.03          |                     |      | 1.04  |
|                           |                          | 10g SAR         |                     |                          | 0.478         |                     |      | 0.48  |
|                           |                          | Deviation       |                     |                          | 0.04          |                     |      | 0.04  |
|                           | Right Tilt               | 1g Fast SAR     |                     |                          | 0.704         |                     |      | 0.71  |
|                           |                          | 10g SAR         |                     |                          | 0.317         |                     |      | 0.32  |
|                           |                          | Deviation       |                     |                          | -0.14         |                     |      | -0.14 |
|                           | B1                       | Right Cheek     | 1g Fast SAR         |                          |               | 0.976               |      |       |
| 10g SAR                   |                          |                 |                     |                          | 0.452         |                     |      | 0.46  |
| Deviation                 |                          |                 |                     |                          | -0.03         |                     |      | -0.03 |
| SIM 1                     | Right Cheek              | 1g Fast SAR     |                     |                          | 0.962         |                     |      | 0.98  |
|                           |                          | 10g SAR         |                     |                          | 0.449         |                     |      | 0.46  |
|                           |                          | Deviation       |                     |                          | -0.01         |                     |      | -0.01 |

| WLAN 2450 Head Full SAR   |                          |                 |                     |                          |               |                     |       |       |
|---------------------------|--------------------------|-----------------|---------------------|--------------------------|---------------|---------------------|-------|-------|
| Ambient Temperature: 22.5 |                          |                 |                     | Liquid Temperature: 23.3 |               |                     |       |       |
| Rate                      | Device orientation       | SAR measurement | Measured SAR [W/kg] |                          |               | Reported SAR [W/kg] |       |       |
|                           |                          |                 | 11<br>2462 MHz      | 6<br>2437 MHz            | 1<br>2412 MHz | 11                  | 6     | 1     |
| 802.11b 1Mbps             | Tune up                  |                 | 16                  | 16                       | 16            | Scaling factor*     |       |       |
|                           | Slot Average Power [dBm] |                 | 15.76               | 15.79                    | 15.94         | 1.06                | 1.05  | 1.01  |
|                           | Right Cheek              | 1g Full SAR     |                     | 1.13                     | 1.16          |                     | 1.19  | 1.18  |
|                           |                          | 10g SAR         |                     | 0.466                    | 0.48          |                     | 0.49  | 0.49  |
|                           |                          | Deviation       |                     | -0.09                    | 0.04          |                     | -0.09 | 0.04  |
|                           | Right Tilt               | 1g Full SAR     |                     |                          | 0.642         |                     |       | 0.65  |
|                           |                          | 10g SAR         |                     |                          | 0.278         |                     |       | 0.28  |
|                           |                          | Deviation       |                     |                          | -0.14         |                     |       | -0.14 |

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. The scaled reported SAR is presented as below:

| Frequency |     | Side  | Test Position | Actual duty factor | maximum duty factor | Reported SAR | Scaled reported SAR (1g) (W/kg) | Figure |
|-----------|-----|-------|---------------|--------------------|---------------------|--------------|---------------------------------|--------|
| MHz       | Ch. |       |               |                    |                     | (1g) (W/kg)  |                                 |        |
| 2437      | 6   | Right | Touch         | 97.73%             | 100%                | 1.19         | 1.22                            | Fig.21 |

SAR is not required for OFDM because the 802.11b adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

**Table 14.4-2 WLAN 2450 body**

| WLAN 2450 Body Fast SAR   |                          |                 |                     |               |               |                          |      |       |
|---------------------------|--------------------------|-----------------|---------------------|---------------|---------------|--------------------------|------|-------|
| Ambient Temperature: 22.5 |                          |                 |                     |               |               | Liquid Temperature: 23.3 |      |       |
| Rate                      | Device orientation       | SAR measurement | Measured SAR [W/kg] |               |               | Reported SAR [W/kg]      |      |       |
|                           |                          |                 | 11<br>2462 MHz      | 6<br>2437 MHz | 1<br>2412 MHz | 11                       | 6    | 1     |
| 802.11b 1Mbps             | Tune up                  |                 | 16                  | 16            | 16            | Scaling factor*          |      |       |
|                           | Slot Average Power [dBm] |                 | 15.76               | 15.79         | 15.94         | 1.06                     | 1.05 | 1.01  |
|                           | Front                    | 1g Fast SAR     |                     |               | 0.084         |                          |      | 0.09  |
|                           |                          | 10g SAR         |                     |               | 0.047         |                          |      | 0.05  |
|                           |                          | Deviation       |                     |               | 0.02          |                          |      | 0.02  |
|                           | Rear                     | 1g Fast SAR     |                     |               | 0.08          |                          |      | 0.08  |
|                           |                          | 10g SAR         |                     |               | 0.043         |                          |      | 0.04  |
|                           |                          | Deviation       |                     |               | 0.04          |                          |      | 0.04  |
|                           | Top edge                 | 1g Fast SAR     |                     |               | 0.083         |                          |      | 0.08  |
|                           |                          | 10g SAR         |                     |               | 0.035         |                          |      | 0.04  |
|                           |                          | Deviation       |                     |               | -0.02         |                          |      | -0.02 |
|                           | Left edge                | 1g Fast SAR     |                     |               | 0.029         |                          |      | 0.03  |
|                           |                          | 10g SAR         |                     |               | 0.014         |                          |      | 0.01  |
|                           |                          | Deviation       |                     |               | 0.1           |                          |      | 0.10  |
|                           | Right edge               | 1g Fast SAR     |                     |               | 0.026         |                          |      | 0.03  |
| 10g SAR                   |                          |                 |                     | 0.013         |               |                          | 0.01 |       |
| Deviation                 |                          |                 |                     | 0.17          |               |                          | 0.17 |       |
| B1                        | Front                    | 1g Fast SAR     |                     |               | 0.082         |                          |      | 0.08  |
|                           |                          | 10g SAR         |                     |               | 0.044         |                          |      | 0.04  |
|                           |                          | Deviation       |                     |               | 0.15          |                          |      | 0.15  |
| SIM 2                     | Front                    | 1g Fast SAR     |                     |               | 0.081         |                          |      | 0.08  |
|                           |                          | 10g SAR         |                     |               | 0.045         |                          |      | 0.05  |
|                           |                          | Deviation       |                     |               | 0.07          |                          |      | 0.07  |

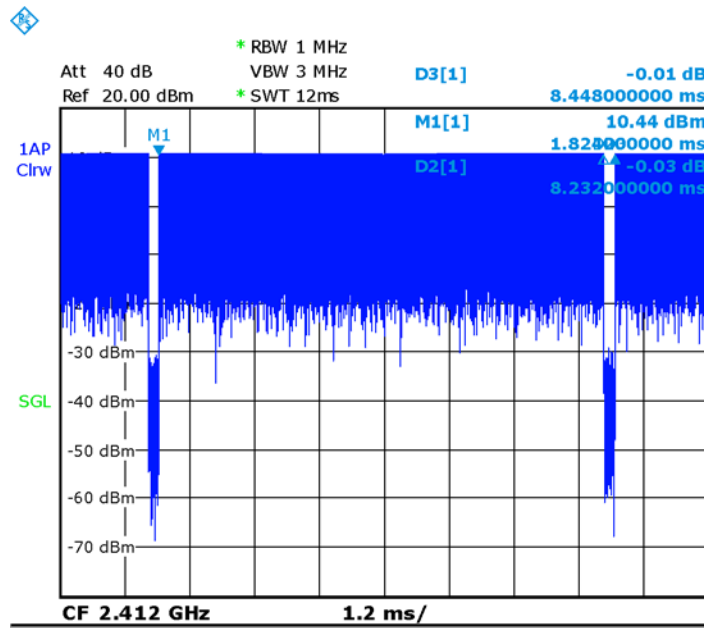
| WLAN 2450 Body Full SAR   |                          |                 |                     |               |               |                          |      |      |
|---------------------------|--------------------------|-----------------|---------------------|---------------|---------------|--------------------------|------|------|
| Ambient Temperature: 22.5 |                          |                 |                     |               |               | Liquid Temperature: 23.3 |      |      |
| Rate                      | Device orientation       | SAR measurement | Measured SAR [W/kg] |               |               | Reported SAR [W/kg]      |      |      |
|                           |                          |                 | 11<br>2462 MHz      | 6<br>2437 MHz | 1<br>2412 MHz | 11                       | 6    | 1    |
| 802.11b 1Mbps             | Tune up                  |                 | 16                  | 16            | 16            | Scaling factor*          |      |      |
|                           | Slot Average Power [dBm] |                 | 15.76               | 15.79         | 15.94         | 1.06                     | 1.05 | 1.01 |
|                           | Front                    | 1g Full SAR     |                     |               | 0.086         |                          |      | 0.09 |
|                           |                          | 10g SAR         |                     |               | 0.047         |                          |      | 0.05 |
| Deviation                 |                          |                 |                     | 0.02          |               |                          | 0.02 |      |

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. The scaled reported SAR is presented as below:

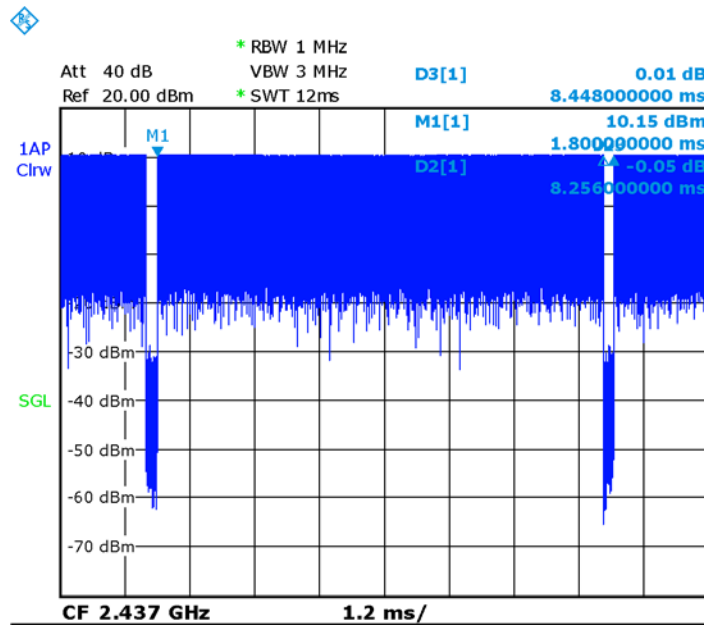
| Frequency |     | Test position | Actual duty factor | maximum duty factor | Reported SAR | Scaled reported SAR | Figure |
|-----------|-----|---------------|--------------------|---------------------|--------------|---------------------|--------|
| MHz       | Ch. |               |                    |                     | (1g) (W/kg)  | (1g) (W/kg)         |        |
| 2412      | 1   | Front         | 97.44%             | 100%                | <b>0.09</b>  | <b>0.09</b>         | Fig.22 |
| 2412      | 1   | Left          | 97.44%             | 100%                | <b>0.03</b>  | <b>0.03</b>         | /      |

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





Picture 14.1 Duty factor plot for CH.1



Picture 14.2 Duty factor plot for CH.6

### 14.5 WLAN Evaluation For 5G

Table 14.5-1: OFDM mode specified maximum output power of WLAN antenna

| 802.11 mode        | a  | g  | n  |    | ac |    |    |     |
|--------------------|----|----|----|----|----|----|----|-----|
| Ch. BW(MHz)        | 20 | 20 | 20 | 40 | 20 | 40 | 80 | 160 |
| U-NII-1            | X  |    | X  | X  |    |    |    |     |
| U-NII-2A           | X  |    | X  | X  |    |    |    |     |
| U-NII-2C           | X  |    | X  | X  |    |    |    |     |
| U-NII-3            | X  |    | X  | X  |    |    |    |     |
| § 15.247 (5.8 GHz) |    |    |    |    |    |    |    |     |

X: maximum(conducted) output power(mW), including tolerance, specified for production units

Table 14.5-2: Maximum output power specified of WLAN antenna

| 802.11 mode        | a  | g  | n  |    | ac |    |    |     |
|--------------------|----|----|----|----|----|----|----|-----|
| Ch. BW(MHz)        | 20 | 20 | 20 | 40 | 20 | 40 | 80 | 160 |
| U-NII-1            | 22 |    |    |    |    |    |    |     |
| U-NII-2A           | 18 |    |    |    |    |    |    |     |
| U-NII-2C           | 19 |    |    |    |    |    |    |     |
| U-NII-3            | 16 |    |    |    |    |    |    |     |
| § 15.247 (5.8 GHz) |    |    |    |    |    |    |    |     |

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

Table 14.5-3: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations

| 802.11 mode | a   | n   |                            | ac |    |    |
|-------------|---|---|----------------------------|----|----|----|
| BW(MHz)     | 20  | 20  | 40                         | 20 | 40 | 80 |
| U-NII-1     | 36/40/44/48<br>21/21/20/19  | 36/40/44/48<br>Lower power                        | 38/46<br>Lower power       | /  | /  | /  |
| U-NII-2A    | 52/56/60/64<br>18/16/16/15  | 52/56/60/64<br>Lower power                        | 54/62<br>Lower power       | /  | /  | /  |
| U-NII-2C    | 100/104/108/112<br>19/19/19/19<br>116/120/124/128<br>18/17/17/16<br>132/136/140<br>15/14/15 | 100/104/108/112<br>116/132/136/140<br>Lower power | 102/110/134<br>Lower power | /  | /  | /  |
| U-NII-3     | 149/153/157/161/165<br>14/14/15/15/15   | 149/153/157/161/165<br>Lower power                | 151/159<br>Lower power     | /  | /  | /  |

- Channels with measured maximum power within 0.25dB are considered to have the same measured output.  
Channels selected for initial test configuration are highlighted in yellow.

**Table 14.5-4: Reported SAR of initial test configuration for Head**

| 802.11 mode | a   | n                                  |                         | ac |    |    |
|-------------|---|------------------------------------|-------------------------|----|----|----|
|             |   | 20                                 | 40                      | 20 | 40 | 80 |
| U-NII-1     | 36/40/44/48<br>U-NII-2A exclusion applied                 | 36/40/44/48                        | 38/46                   | /  | /  | /  |
| U-NII-2A    | 52/56/60/64<br>0.63                                       | 52/56/60/64                        | 54/62                   | /  | /  | /  |
| U-NII-2C    | 100/104/108/112<br>116/120/124/128<br>132/136/140<br>0.79 | 100/104/108/112<br>116/132/136/140 | 102/110/118/<br>126/134 | /  | /  | /  |
| U-NII-3     | 149/153/157/161/165<br>1.08                               | 149/153/157/161/<br>165            | 151/159                 | /  | /  | /  |

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  $\leq 1.2W/kg$ , SAR is not required for U-NII-1 band.

**Table 14.5-5: Reported SAR of initial test configuration for Body**

| 802.11 mode | a   | n                                  |                         | ac |    |    |
|-------------|---|------------------------------------|-------------------------|----|----|----|
|             |   | 20                                 | 40                      | 20 | 40 | 80 |
| U-NII-1     | 36/40/44/48<br>U-NII-2A exclusion applied                 | 36/40/44/48                        | 38/46                   | /  | /  | /  |
| U-NII-2A    | 52/56/60/64<br>0.02                                       | 52/56/60/64                        | 54/62                   | /  | /  | /  |
| U-NII-2C    | 100/104/108/112<br>116/120/124/128<br>132/136/140<br>0.04 | 100/104/108/112<br>116/132/136/140 | 102/110/118/126/<br>134 | /  | /  | /  |
| U-NII-3     | 149/153/157/161/165<br>0.05                               | 149/153/157/161/<br>165            | 151/159                 | /  | /  | /  |

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  $\leq 1.2W/kg$ , SAR is not required for U-NII-1 band.

**Table 14.5-6: SAR Values (WLAN - Head) – 802.11a 6Mbps**

| Frequency |     | Side  | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
|-----------|-----|-------|---------------|------------|-----------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| MHz       | Ch. |       |               |            |                       |                          |                          |                          |                         |                         |                  |
| 5260      | 52  | Left  | Touch         | /          | 12.56                 | 12.6                     | 0.0694                   | <b>0.07</b>              | 0.181                   | <b>0.18</b>             | 0.13             |
| 5260      | 52  | Left  | Tilt          | /          | 12.56                 | 12.6                     | 0.0586                   | <b>0.06</b>              | 0.165                   | <b>0.17</b>             | 0.14             |
| 5260      | 52  | Right | Touch         | /          | 12.56                 | 12.6                     | 0.168                    | <b>0.17</b>              | 0.624                   | <b>0.63</b>             | 0.04             |
| 5260      | 52  | Right | Tilt          | /          | 12.56                 | 12.6                     | 0.133                    | <b>0.13</b>              | 0.389                   | <b>0.39</b>             | 0.02             |
| 5560      | 112 | Left  | Touch         | /          | 12.82                 | 12.9                     | 0.106                    | <b>0.11</b>              | 0.266                   | <b>0.27</b>             | 0.12             |
| 5560      | 112 | Left  | Tilt          | /          | 12.82                 | 12.9                     | 0.0855                   | <b>0.09</b>              | 0.25                    | <b>0.25</b>             | 0.01             |
| 5560      | 112 | Right | Touch         | /          | 12.82                 | 12.9                     | 0.22                     | <b>0.22</b>              | 0.779                   | <b>0.79</b>             | -0.05            |
| 5560      | 112 | Right | Tilt          | /          | 12.82                 | 12.9                     | 0.202                    | <b>0.21</b>              | 0.651                   | <b>0.66</b>             | 0.05             |
| 5785      | 157 | Left  | Touch         | /          | 11.74                 | 11.8                     | 0.132                    | <b>0.13</b>              | 0.328                   | <b>0.33</b>             | -0.15            |
| 5785      | 157 | Left  | Tilt          | /          | 11.74                 | 11.8                     | 0.148                    | <b>0.15</b>              | 0.409                   | <b>0.41</b>             | 0.11             |
| 5785      | 157 | Right | Touch         | Fig.23     | 11.74                 | 11.8                     | 0.299                    | <b>0.30</b>              | 1.07                    | <b>1.08</b>             | 0.1              |
| 5785      | 157 | Right | Tilt          | /          | 11.74                 | 11.8                     | 0.215                    | <b>0.22</b>              | 0.684                   | <b>0.69</b>             | -0.04            |
| 5805      | 161 | Right | Touch         | /          | 11.71                 | 11.8                     | 0.217                    | <b>0.22</b>              | 0.654                   | <b>0.67</b>             | 0.09             |
| 5785      | 157 | Right | Touch         | B1         | 11.74                 | 11.8                     | 0.223                    | <b>0.23</b>              | 0.745                   | <b>0.76</b>             | 0.01             |
| 5785      | 157 | Right | Touch         | S2         | 11.74                 | 11.8                     | 0.235                    | <b>0.24</b>              | 0.772                   | <b>0.78</b>             | 0.07             |

**Table 14.5-7: SAR Values (WLAN - Body) – 802.11a 6Mbps**

| Frequency |     | Test Position | D (mm) | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
|-----------|-----|---------------|--------|------------|-----------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|------------------|
| MHz       | Ch. |               |        |            |                       |                          |                          |                          |                         |                         |                  |
| 5260      | 52  | Front         | 10     | /          | 12.56                 | 12.6                     | 0.004                    | <b>&lt;0.01</b>          | 0.01                    | <b>0.01</b>             | -0.03            |
| 5260      | 52  | Rear          | 10     | /          | 12.56                 | 12.6                     | 0.005                    | <b>0.01</b>              | 0.016                   | <b>0.02</b>             | 0.02             |
| 5260      | 52  | Left          | 10     | /          | 12.56                 | 12.6                     | 0.003                    | <b>&lt;0.01</b>          | 0.001                   | <b>&lt;0.01</b>         | 0.01             |
| 5260      | 52  | Top           | 10     | /          | 12.56                 | 12.6                     | 0.004                    | <b>&lt;0.01</b>          | 0.012                   | <b>0.01</b>             | 0.05             |
| 5560      | 112 | Front         | 10     | /          | 12.82                 | 12.9                     | 0.007                    | <b>0.01</b>              | 0.022                   | <b>0.02</b>             | -0.02            |
| 5560      | 112 | Rear          | 10     | /          | 12.82                 | 12.9                     | 0.012                    | <b>0.01</b>              | 0.035                   | <b>0.04</b>             | 0.04             |
| 5560      | 112 | Left          | 10     | /          | 12.82                 | 12.9                     | 0.002                    | <b>&lt;0.01</b>          | 0.012                   | <b>0.01</b>             | 0.09             |
| 5560      | 112 | Top           | 10     | /          | 12.82                 | 12.9                     | 0.014                    | <b>0.01</b>              | 0.043                   | <b>0.04</b>             | 0.01             |
| 5785      | 157 | Front         | 10     | /          | 11.74                 | 11.8                     | 0.011                    | <b>0.01</b>              | 0.036                   | <b>0.04</b>             | 0.01             |
| 5785      | 157 | Rear          | 10     | /          | 11.74                 | 11.8                     | 0.014                    | <b>0.01</b>              | 0.038                   | <b>0.04</b>             | 0.04             |
| 5785      | 157 | Left          | 10     | /          | 11.74                 | 11.8                     | 0.005                    | <b>0.01</b>              | 0.016                   | <b>0.02</b>             | 0.07             |
| 5785      | 157 | Top           | 10     | Fig.24     | 11.74                 | 11.8                     | 0.018                    | <b>0.02</b>              | 0.051                   | <b>0.05</b>             | 0.04             |
| 5785      | 157 | Top           | 10     | B1         | 11.74                 | 11.8                     | 0.017                    | <b>0.02</b>              | 0.043                   | <b>0.04</b>             | 0.06             |
| 5785      | 157 | Top           | 10     | S2         | 11.74                 | 11.8                     | 0.016                    | <b>0.02</b>              | 0.044                   | <b>0.04</b>             | -0.15            |

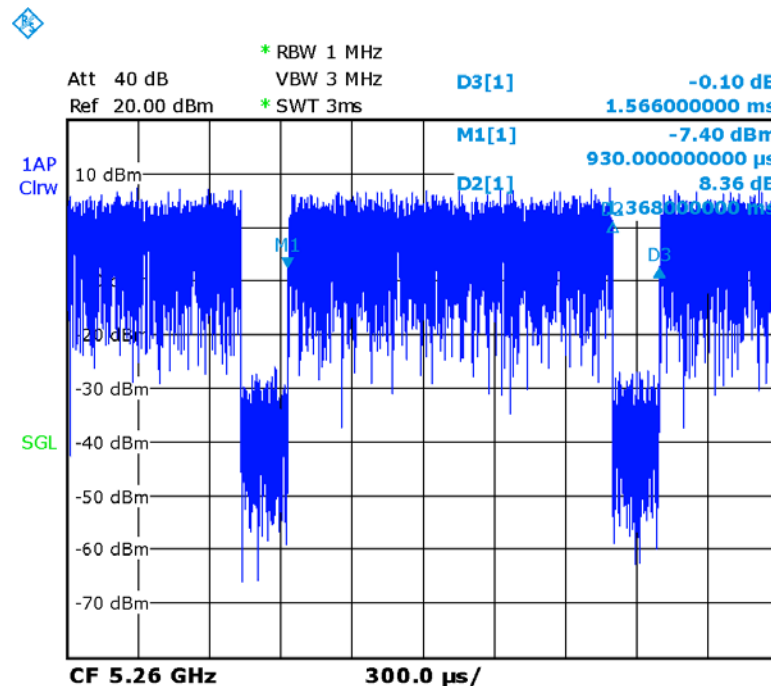
According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.5-8: SAR Values (WLAN - Head) – 802.11a 6Mbps (Scaled Reported SAR)**

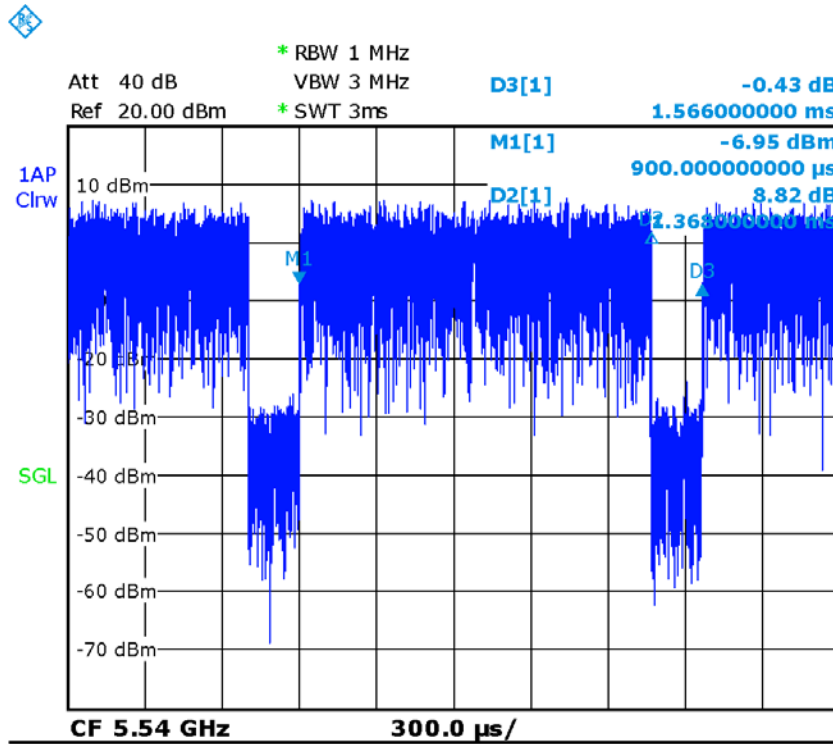
| Frequency |     | Side  | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g) (W/kg) | Scaled reported SAR (1g) (W/kg) |
|-----------|-----|-------|---------------|--------------------|---------------------|--------------------------|---------------------------------|
| MHz       | Ch. |       |               |                    |                     |                          |                                 |
| 5785      | 157 | Right | Touch         | 87.36%             | 100%                | <b>1.08</b>              | <b>1.24</b>                     |

**Table 14.5-9: SAR Values (WLAN - Body) – 802.11a 6Mbps (Scaled Reported SAR)**

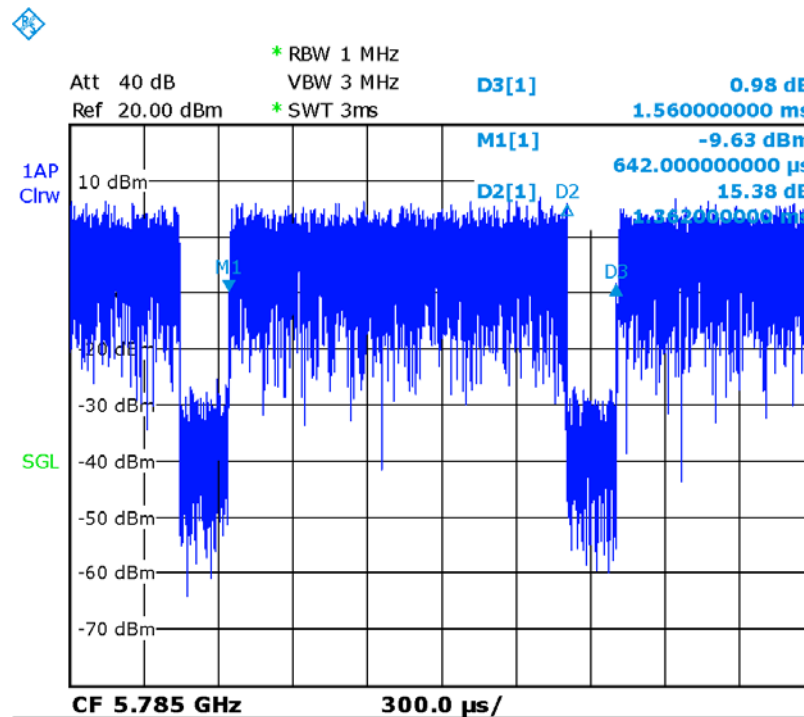
| Frequency |     | Test Position | D (mm) | Actual duty factor | maximum duty factor | Reported SAR (1g) (W/kg) | Scaled reported SAR (1g) (W/kg) |
|-----------|-----|---------------|--------|--------------------|---------------------|--------------------------|---------------------------------|
| MHz       | Ch. |               |        |                    |                     |                          |                                 |
| 5785      | 157 | Top           | 10     | 87.36%             | 100%                | <b>0.05</b>              | <b>0.06</b>                     |
| 5785      | 157 | Left          | 10     | 87.36%             | 100%                | <b>0.02</b>              | <b>0.02</b>                     |



**Picture 14.3 The plot of duty factor for CH.52**



Picture 14.4 The plot of duty factor for CH.112



Picture 14.5 The plot of duty factor for CH.157

## 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  $> 1.20$ .

| Mode      | Channel | Frequency | Test Position | Original SAR (W/kg) | First Repeated SAR(W/kg) | The Ratio |
|-----------|---------|-----------|---------------|---------------------|--------------------------|-----------|
| WLAN 2450 | 6       | 2437 MHz  | Right Cheek   | 1.13                | 1.12                     | 1.01      |
| WLAN 5G   | 157     | 5785 MHz  | Right Cheek   | 1.07                | 1.06                     | 1.01      |

## 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    | 6.0               | N                     | 1          | 1       | 1        | 6.0            | 6.0             | ∞                 |
| 2                          | Isotropy  | B    | 4.7               | R                     | $\sqrt{3}$ | 0.7     | 0.7      | 1.9            | 1.9             | ∞                 |
| 3                          | Boundary effect                                 | B    | 1.0               | 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               | N                     | 1          | 1       | 1        | 0.6            | 0.6             | ∞                 |
| 6                          | Readout electronics                             | B    | 0.3               | R                     | $\sqrt{3}$ | 1       | 1        | 0.3            | 0.3             | ∞                 |
| 7                          | Response time                                   | B    | 0.8               | R                     | $\sqrt{3}$ | 1       | 1        | 0.5            | 0.5             | ∞                 |
| 8                          | Integration time                                | B    | 2.6               | R                     | $\sqrt{3}$ | 1       | 1        | 1.5            | 1.5             | ∞                 |
| 9                          | RF ambient conditions-noise                     | B    | 0                 | R                     | $\sqrt{3}$ | 1       | 1        | 0              | 0               | ∞                 |
| 10                         | RF ambient conditions-reflection                | B    | 0                 | R                     | $\sqrt{3}$ | 1       | 1        | 0              | 0               | ∞                 |
| 11                         | Probe positioned mech. restrictions             | B    | 0.4               | 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             | 71                |
| 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    | 4.0               | R                     | $\sqrt{3}$ | 1       | 1        | 2.3            | 2.3             | ∞                 |



|  |                              |  |      |   |            |      |      |      |      |          |
|--|------------------------------|--|------|---|------------|------|------|------|------|----------|
| 18   | Liquid conductivity (target) | B  | 5.0  | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8  | 1.2  | $\infty$ |
| 19   | Liquid conductivity (meas.)  | A  | 2.06 | N | 1          | 0.64 | 0.43 | 1.32 | 0.89 | 43       |
| 20   | Liquid permittivity (target) | B  | 5.0  | R | $\sqrt{3}$ | 0.6  | 0.49 | 1.7  | 1.4  | $\infty$ |
| 21   | Liquid permittivity (meas.)  | A  | 1.6  | N | 1          | 0.6  | 0.49 | 1.0  | 0.8  | 521      |
| Combined standard uncertainty                      |                              | $u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ |      |   |            |      |      | 9.55 | 9.43 | 257      |
| Expanded uncertainty (confidence interval of 95 %) |                              | $u_e = 2u_c$                               |      |   |            |      |      | 19.1 | 18.9 |          |

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

| 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    | 6.55              | N                     | 1          | 1       | 1        | 6.55           | 6.55            | $\infty$          |
| 2                         | Isotropy                            | B    | 4.7               | R                     | $\sqrt{3}$ | 0.7     | 0.7      | 1.9            | 1.9             | $\infty$          |
| 3                         | Boundary effect                     | B    | 2.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.2            | 1.2             | $\infty$          |
| 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    | 0.3               | R                     | $\sqrt{3}$ | 1       | 1        | 0.3            | 0.3             | $\infty$          |
| 7                         | Response time                       | B    | 0.8               | R                     | $\sqrt{3}$ | 1       | 1        | 0.5            | 0.5             | $\infty$          |
| 8                         | Integration time                    | B    | 2.6               | R                     | $\sqrt{3}$ | 1       | 1        | 1.5            | 1.5             | $\infty$          |
| 9                         | RF ambient conditions-noise         | B    | 0                 | R                     | $\sqrt{3}$ | 1       | 1        | 0              | 0               | $\infty$          |
| 10                        | RF ambient conditions-reflection    | B    | 0                 | R                     | $\sqrt{3}$ | 1       | 1        | 0              | 0               | $\infty$          |
| 11                        | Probe positioned mech. restrictions | B    | 0.8               | R                     | $\sqrt{3}$ | 1       | 1        | 0.5            | 0.5             | $\infty$          |
| 12                        | Probe positioning with respect to   | B    | 6.7               | R                     | $\sqrt{3}$ | 1       | 1        | 3.9            | 3.9             | $\infty$          |

|  |                              |  |      |   |            |      |      |      |      |          |
|--|------------------------------|--|------|---|------------|------|------|------|------|----------|
|  | phantom shell                |  |      |   |            |      |      |      |      |          |
| 13   | Post-processing              | B  | 4.0  | R | $\sqrt{3}$ | 1    | 1    | 2.3  | 2.3  | $\infty$ |
| <b>Test sample related</b>                         |                              |  |      |   |            |      |      |      |      |          |
| 14   | Test sample positioning      | A  | 3.3  | N | 1          | 1    | 1    | 3.3  | 3.3  | 71       |
| 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  | $\infty$ |
| <b>Phantom and set-up</b>                          |                              |  |      |   |            |      |      |      |      |          |
| 17   | Phantom uncertainty          | B  | 4.0  | R | $\sqrt{3}$ | 1    | 1    | 2.3  | 2.3  | $\infty$ |
| 18   | Liquid conductivity (target) | B  | 5.0  | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8  | 1.2  | $\infty$ |
| 19   | Liquid conductivity (meas.)  | A  | 2.06 | N | 1          | 0.64 | 0.43 | 1.32 | 0.89 | 43       |
| 20   | Liquid permittivity (target) | B  | 5.0  | R | $\sqrt{3}$ | 0.6  | 0.49 | 1.7  | 1.4  | $\infty$ |
| 21   | Liquid permittivity (meas.)  | A  | 1.6  | N | 1          | 0.6  | 0.49 | 1.0  | 0.8  | 521      |
| Combined standard uncertainty                      |                              | $u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ |      |   |            |      |      | 10.7 | 10.6 | 257      |
| Expanded uncertainty (confidence interval of 95 %) |                              | $u_e = 2u_c$                               |      |   |            |      |      | 21.4 | 21.1 |          |

### 16.3 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    | 6.0               | N                     | 1          | 1       | 1        | 6.0            | 6.0             | $\infty$          |
| 2                         | Isotropy          | B    | 4.7               | R                     | $\sqrt{3}$ | 0.7     | 0.7      | 1.9            | 1.9             | $\infty$          |
| 3                         | Boundary effect   | B    | 1.0               | 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  | 0.3  | R | $\sqrt{3}$ | 1    | 1    | 0.3  | 0.3  | $\infty$ |
| 7  | Response time                                   | B  | 0.8  | R | $\sqrt{3}$ | 1    | 1    | 0.5  | 0.5  | $\infty$ |
| 8  | Integration time                                | B  | 2.6  | R | $\sqrt{3}$ | 1    | 1    | 1.5  | 1.5  | $\infty$ |
| 9  | RF ambient conditions-noise                     | B  | 0    | R | $\sqrt{3}$ | 1    | 1    | 0    | 0    | $\infty$ |
| 10   | RF ambient conditions-reflection                | B  | 0    | R | $\sqrt{3}$ | 1    | 1    | 0    | 0    | $\infty$ |
| 11   | Probe positioned mech. Restrictions             | B  | 0.4  | 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  | 71       |
| 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  | 4.0  | R | $\sqrt{3}$ | 1    | 1    | 2.3  | 2.3  | $\infty$ |
| 19   | Liquid conductivity (target)                    | B  | 5.0  | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8  | 1.2  | $\infty$ |
| 20   | Liquid conductivity (meas.)                     | A  | 2.06 | N | 1          | 0.64 | 0.43 | 1.32 | 0.89 | 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 | 1.0  | 0.8  | 521      |
| Combined standard uncertainty                      |   | $u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ |      |   |            |      |      | 10.4 | 10.3 | 257      |
| Expanded uncertainty (confidence interval of 95 %) |   | $u_e = 2u_c$                               |      |   |            |      |      | 20.8 | 20.6 |          |

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

| 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    | 6.55              | N                     | 1          | 1       | 1        | 6.55           | 6.55            | ∞                 |
| 2                          | Isotropy  | B    | 4.7               | R                     | $\sqrt{3}$ | 0.7     | 0.7      | 1.9            | 1.9             | ∞                 |
| 3                          | Boundary effect                                 | B    | 2.0               | R                     | $\sqrt{3}$ | 1       | 1        | 1.2            | 1.2             | ∞                 |
| 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    | 0.3               | R                     | $\sqrt{3}$ | 1       | 1        | 0.3            | 0.3             | ∞                 |
| 7                          | Response time                                   | B    | 0.8               | R                     | $\sqrt{3}$ | 1       | 1        | 0.5            | 0.5             | ∞                 |
| 8                          | Integration time                                | B    | 2.6               | R                     | $\sqrt{3}$ | 1       | 1        | 1.5            | 1.5             | ∞                 |
| 9                          | RF ambient conditions-noise                     | B    | 0                 | R                     | $\sqrt{3}$ | 1       | 1        | 0              | 0               | ∞                 |
| 10                         | RF ambient conditions-reflection                | B    | 0                 | R                     | $\sqrt{3}$ | 1       | 1        | 0              | 0               | ∞                 |
| 11                         | Probe positioned mech. Restrictions             | B    | 0.8               | R                     | $\sqrt{3}$ | 1       | 1        | 0.5            | 0.5             | ∞                 |
| 12                         | Probe positioning with respect to phantom shell | B    | 6.7               | R                     | $\sqrt{3}$ | 1       | 1        | 3.9            | 3.9             | ∞                 |
| 13                         | Post-processing                                 | B    | 1.0               | R                     | $\sqrt{3}$ | 1       | 1        | 0.6            | 0.6             | ∞                 |
| 14                         | Fast SAR z-Approximation                        | B    | 14.0              | R                     | $\sqrt{3}$ | 1       | 1        | 8.1            | 8.1             | ∞                 |
| <b>Test sample related</b> |   |      |                   |                       |            |         |          |                |                 |                   |
| 15                         | Test sample positioning                         | A    | 3.3               | N                     | 1          | 1       | 1        | 3.3            | 3.3             | 71                |
| 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             | ∞                 |
| <b>Phantom and set-up</b>  |   |      |                   |                       |            |         |          |                |                 |                   |

|  |                              |  |      |   |            |      |      |      |      |          |
|--|------------------------------|--|------|---|------------|------|------|------|------|----------|
| 18   | Phantom uncertainty          | B  | 4.0  | R | $\sqrt{3}$ | 1    | 1    | 2.3  | 2.3  | $\infty$ |
| 19   | Liquid conductivity (target) | B  | 5.0  | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8  | 1.2  | $\infty$ |
| 20   | Liquid conductivity (meas.)  | A  | 2.06 | N | 1          | 0.64 | 0.43 | 1.32 | 0.89 | 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 | 1.0  | 0.8  | 521      |
| Combined standard uncertainty                      |                              | $u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ |      |   |            |      |      | 13.5 | 13.4 | 257      |
| Expanded uncertainty (confidence interval of 95 %) |                              | $u_e = 2u_c$                               |      |   |            |      |      | 27.0 | 26.8 |          |

## 17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

| No. | Name                  | Type          | Serial Number | Calibration Date         | Valid Period |
|-----|-----------------------|---------------|---------------|--------------------------|--------------|
| 01  | Network analyzer      | E5071C        | MY46110673    | January 13, 2017         | One year     |
| 02  | Power meter           | NRVD          | 102083        | September 22,2016        | One year     |
| 03  | Power sensor          | NRV-Z5        | 100595        |                          |              |
| 04  | Signal Generator      | E4438C        | MY49071430    | January 13,2017          | One Year     |
| 05  | Amplifier             | 60S1G4        | 0331848       | No Calibration Requested |              |
| 06  | BTS                   | E5515C        | MY50263375    | January 16, 2017         | One year     |
| 07  | BTS                   | CMW500        | 149646        | November 03, 2016        | One year     |
| 08  | E-field Probe         | SPEAG EX3DV4  | 3846          | January 13,2017          | One year     |
| 09  | DAE                   | SPEAG DAE4    | 1331          | January19, 2017          | One year     |
| 10  | Dipole Validation Kit | SPEAG D750V3  | 1017          | July 20, 2016            | One year     |
| 11  | Dipole Validation Kit | SPEAG D835V2  | 4d069         | July 20, 2016            | One year     |
| 12  | Dipole Validation Kit | SPEAG D1750V2 | 1003          | July 21, 2016            | One year     |
| 13  | Dipole Validation Kit | SPEAG D1900V2 | 5d101         | July 28, 2016            | One year     |
| 14  | Dipole Validation Kit | SPEAG D2450V2 | 853           | July 25, 2016            | One year     |
| 15  | Dipole Validation Kit | SPEAG D2600V2 | 1012          | July 25, 2016            | One year     |
| 16  | Dipole Validation Kit | SPEAG D5GHzV2 | 1060          | July 27,2016             | One year     |

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

## ANNEX A Graph Results

### GSM850\_CH128 Right Cheek

Date: 4/6/2017

Electronics: DAE4 Sn1331

Medium: Head 835 MHz

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.891$  mho/m;  $\epsilon_r = 41.61$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: GSM850 824.2 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN3846 ConvF(9.33,9.33,9.33)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.193 W/kg

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

Reference Value = 5.773 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.223 W/kg

**SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.138 W/kg**

Maximum value of SAR (measured) = 0.195 W/kg

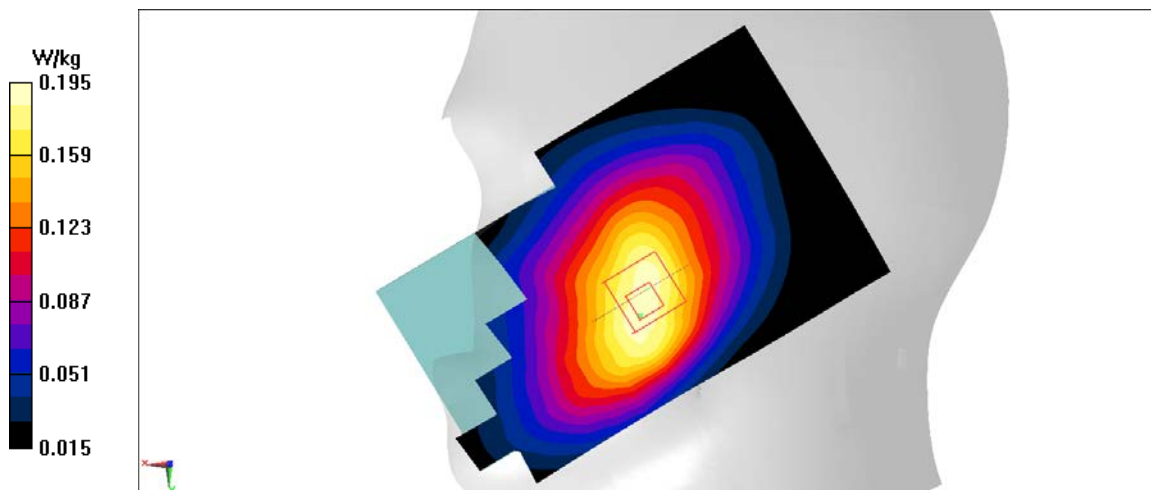


Figure A.1

**GSM850\_CH128 Right edge**

Date: 4/6/2017

Electronics: DAE4 Sn1331

Medium: Body 835 MHz

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 56.11$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: GSM850 824.2 MHz Duty Cycle: 1:2

Probe: EX3DV4 – SN3846 ConvF(9.52,9.52,9.52)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.35 W/kg

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

Reference Value = 17.31 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.433 W/kg

**SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.209 W/kg**

Maximum value of SAR (measured) = 0.347 W/kg

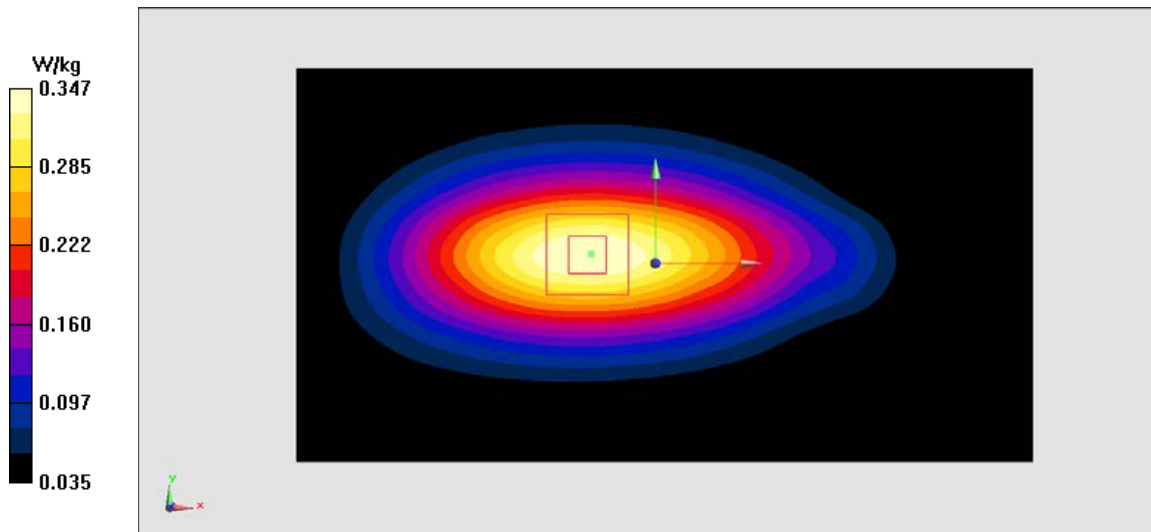


Figure A.2



**PCS1900\_CH661 Left Cheek**

Date: 4/8/2017

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.371$  mho/m;  $\epsilon_r = 39.57$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: PCS1900 1880 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN3846 ConvF(7.89,7.89,7.89)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.221 W/kg

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

Reference Value = 3.794 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.275 W/kg

**SAR(1 g) = 0.19 W/kg; SAR(10 g) = 0.122 W/kg**

Maximum value of SAR (measured) = 0.218 W/kg

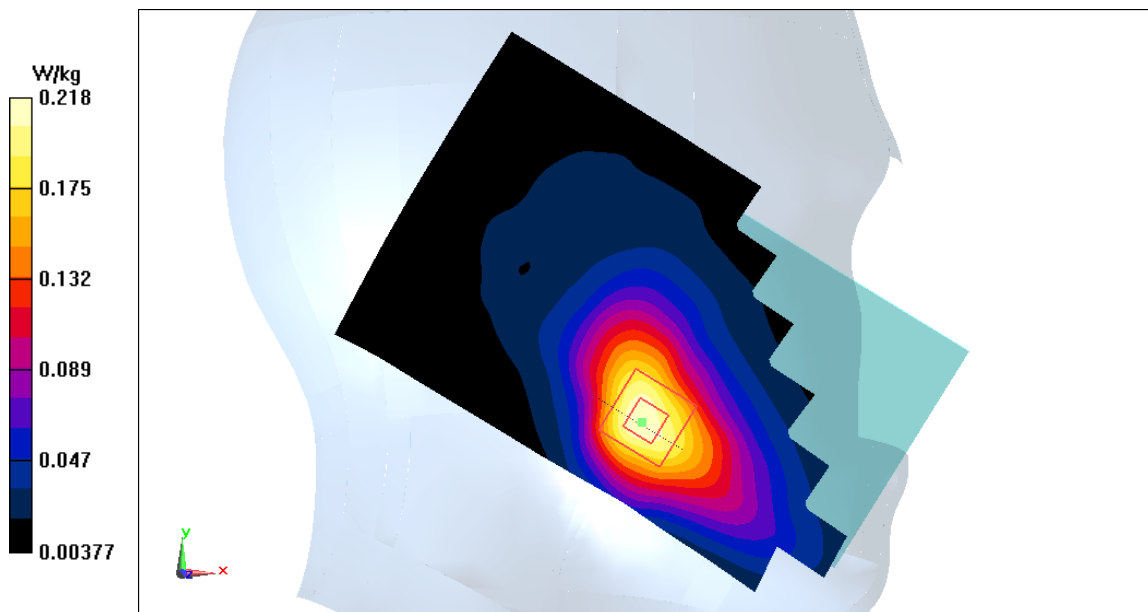


Figure A.3

**PCS1900\_CH512 Left edge**

Date: 4/8/2017

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.488$  mho/m;  $\epsilon_r = 53.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:2

Probe: EX3DV4 – SN3846 ConvF(7.57,7.57,7.57)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.672 W/kg

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

Reference Value = 9.807 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.881 W/kg

**SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.338 W/kg**

Maximum value of SAR (measured) = 0.663 W/kg

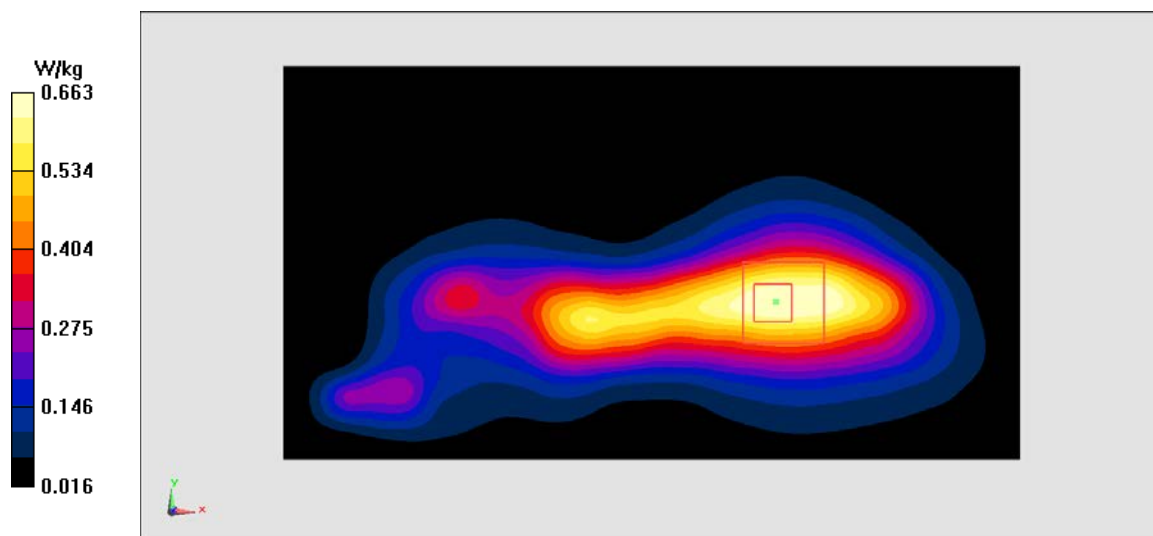


Figure A.4

**WCDMA1900-BII\_CH9538 Left Cheek**

Date: 4/8/2017

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters used:  $f = 1907.6$  MHz;  $\sigma = 1.398$  mho/m;  $\epsilon_r = 39.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: WCDMA1900-BII 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.89,7.89,7.89)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.579 W/kg

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

Reference Value = 5.884 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.734 W/kg

**SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.315 W/kg**

Maximum value of SAR (measured) = 0.575 W/kg

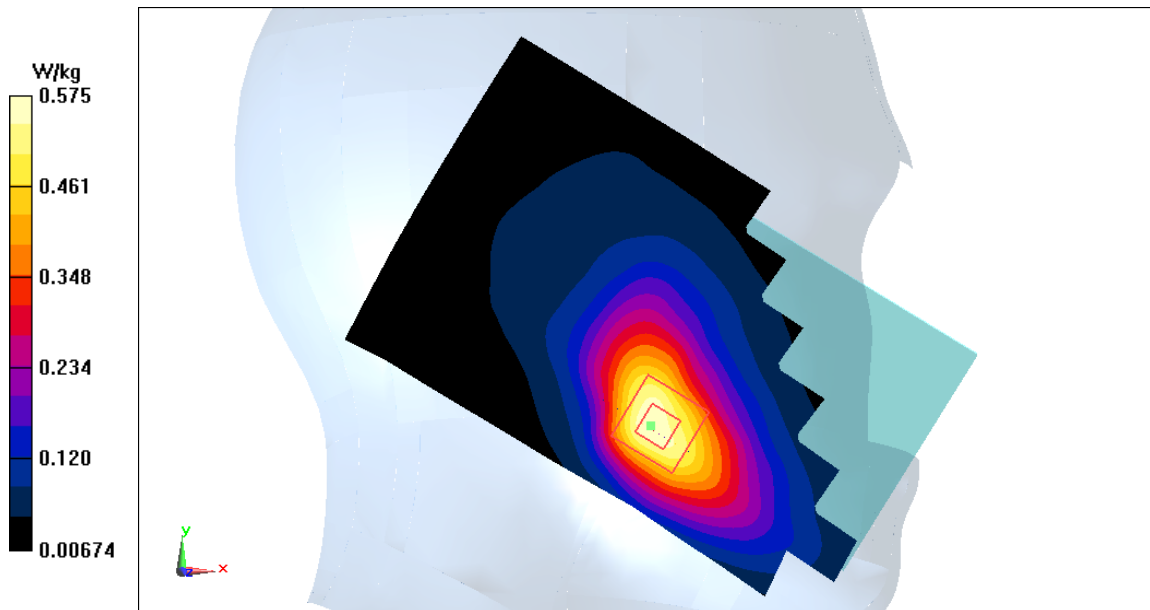


Figure A.5

**WCDMA1900-BII\_CH9400 Left edge**

Date: 4/8/2017

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.517$  mho/m;  $\epsilon_r = 53.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: WCDMA1900-BII 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.57,7.57,7.57)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.665 W/kg

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

Reference Value = 14.41 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.875 W/kg

**SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.332 W/kg**

Maximum value of SAR (measured) = 0.656 W/kg

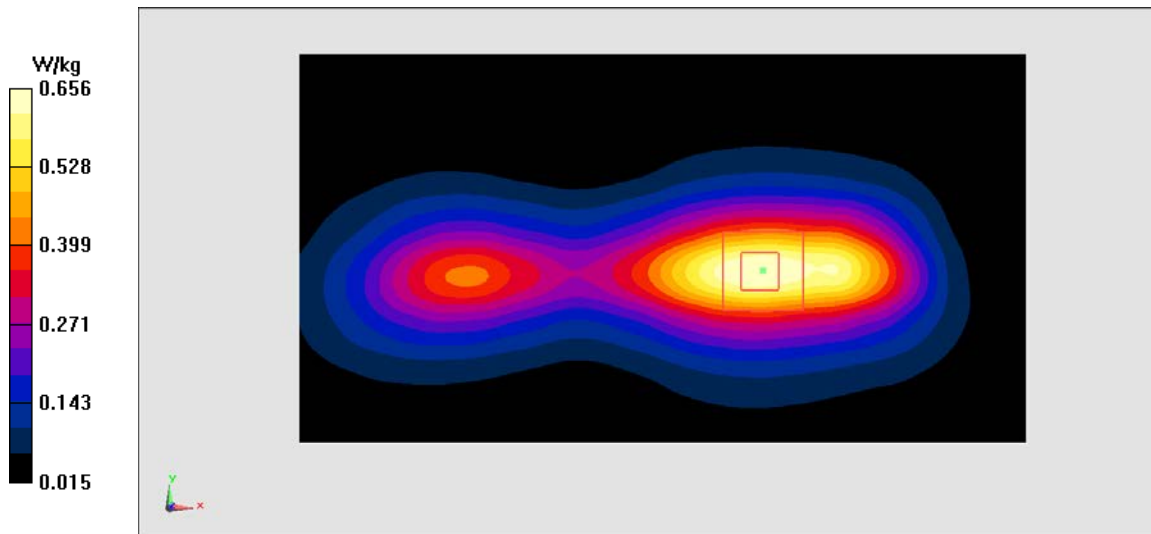


Figure A.6

### WCDMA1700-BIV\_CH1513 Left Cheek

Date: 4/7/2017

Electronics: DAE4 Sn1331

Medium: Head 1750 MHz

Medium parameters used:  $f = 1752.6$  MHz;  $\sigma = 1.383$  mho/m;  $\epsilon_r = 40.67$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(8.16,8.16,8.16)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.304 W/kg

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

Reference Value = 3.688 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.374 W/kg

**SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.178 W/kg**

Maximum value of SAR (measured) = 0.3 W/kg

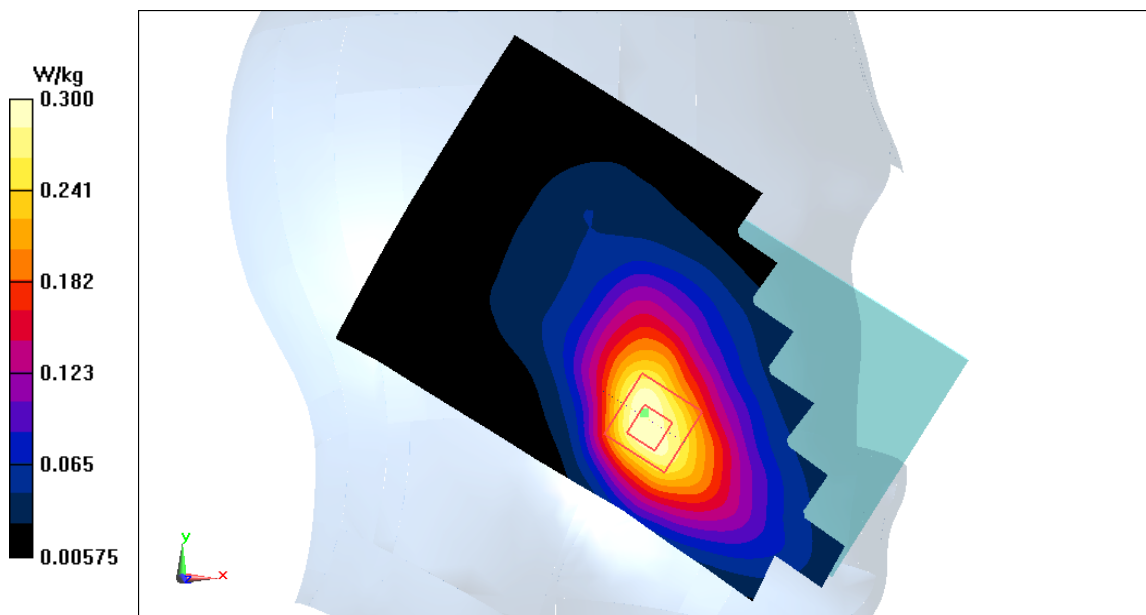


Figure A.7

**WCDMA1700-BIV\_CH1513 Bottom edge**

Date: 4/7/2017

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used:  $f = 1752.6$  MHz;  $\sigma = 1.517$  mho/m;  $\epsilon_r = 53.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.90,7.90,7.90)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.498 W/kg

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

Reference Value = 13.33 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.673 W/kg

**SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.2 W/kg**

Maximum value of SAR (measured) = 0.457 W/kg

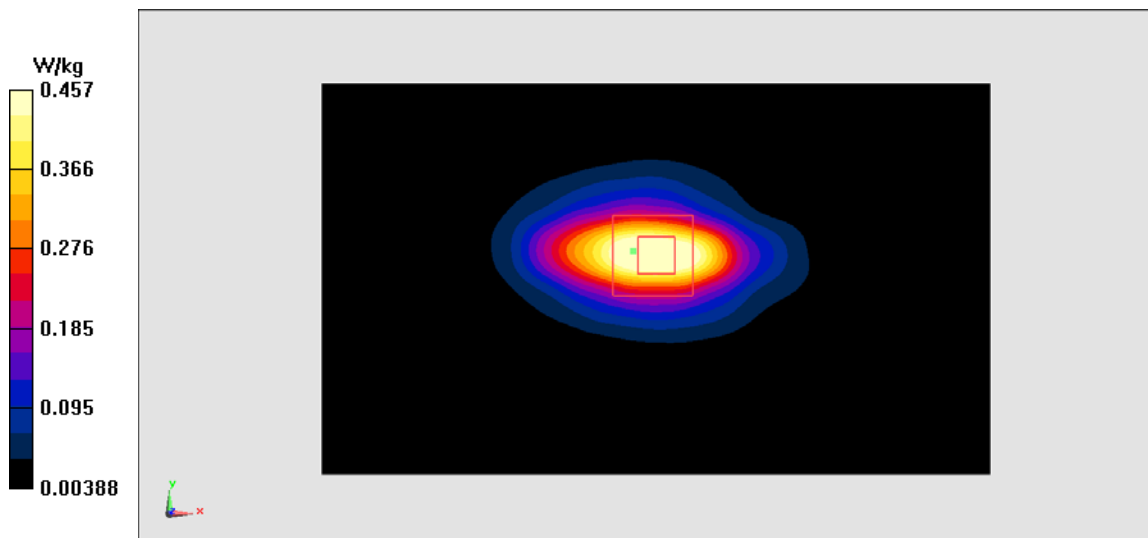


Figure A.8

### WCDMA850-BV\_CH4715 Right Cheek

Date: 4/6/2017

Electronics: DAE4 Sn1331

Medium: Head 835 MHz

Medium parameters used:  $f = 835.4$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 41.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: WCDMA850-BV 835.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(9.33,9.33,9.33)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.245 W/kg

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

Reference Value = 7.234 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.277 W/kg

**SAR(1 g) = 0.22 W/kg; SAR(10 g) = 0.17 W/kg**

Maximum value of SAR (measured) = 0.241 W/kg

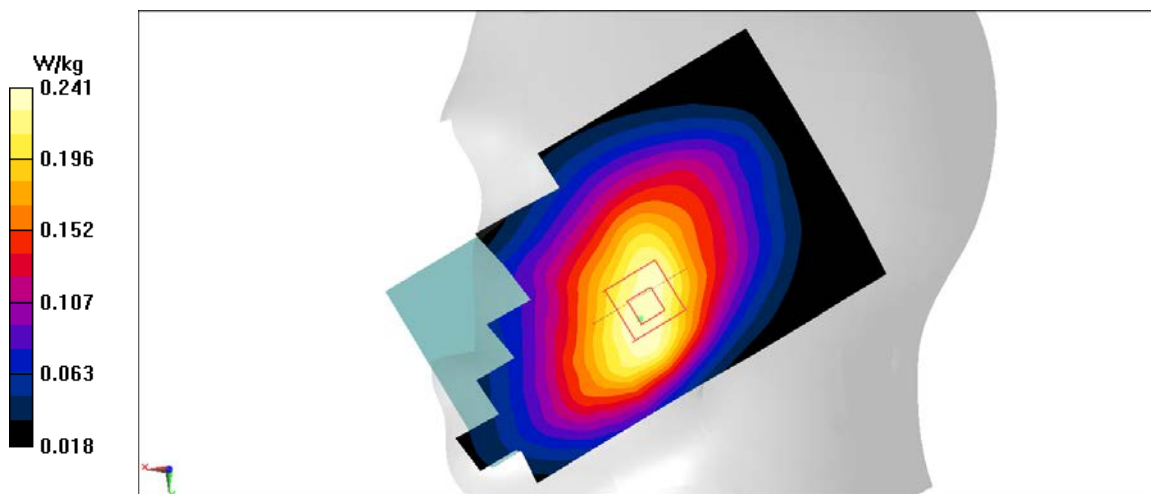


Figure A.9

**WCDMA850-BV\_CH4715 Right edge**

Date: 4/6/2017

Electronics: DAE4 Sn1331

Medium: Body 835 MHz

Medium parameters used:  $f = 835.4$  MHz;  $\sigma = 0.989$  mho/m;  $\epsilon_r = 56.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: WCDMA850-BV 835.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(9.52,9.52,9.52)

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.428 W/kg

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

Reference Value = 19.02 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.538 W/kg

**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.256 W/kg**

Maximum value of SAR (measured) = 0.429 W/kg

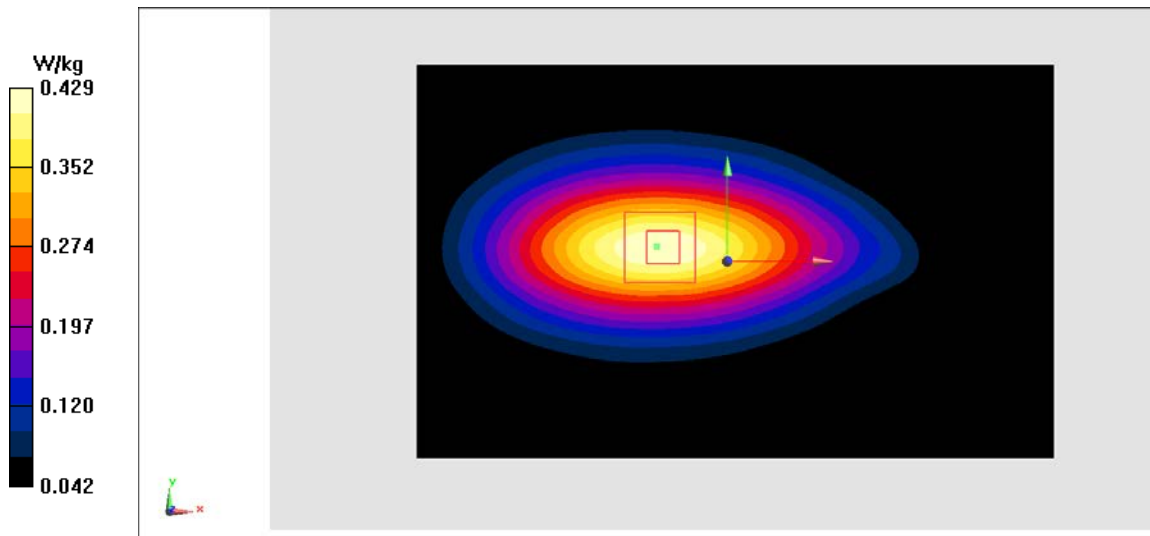


Figure A.10



**LTE1900-FDD2\_CH19100 Left Cheek**

Date: 4/8/2017

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.89,7.89,7.89)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.38 W/kg

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

Reference Value = 4.786 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.477 W/kg

**SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.208 W/kg**

Maximum value of SAR (measured) = 0.38 W/kg

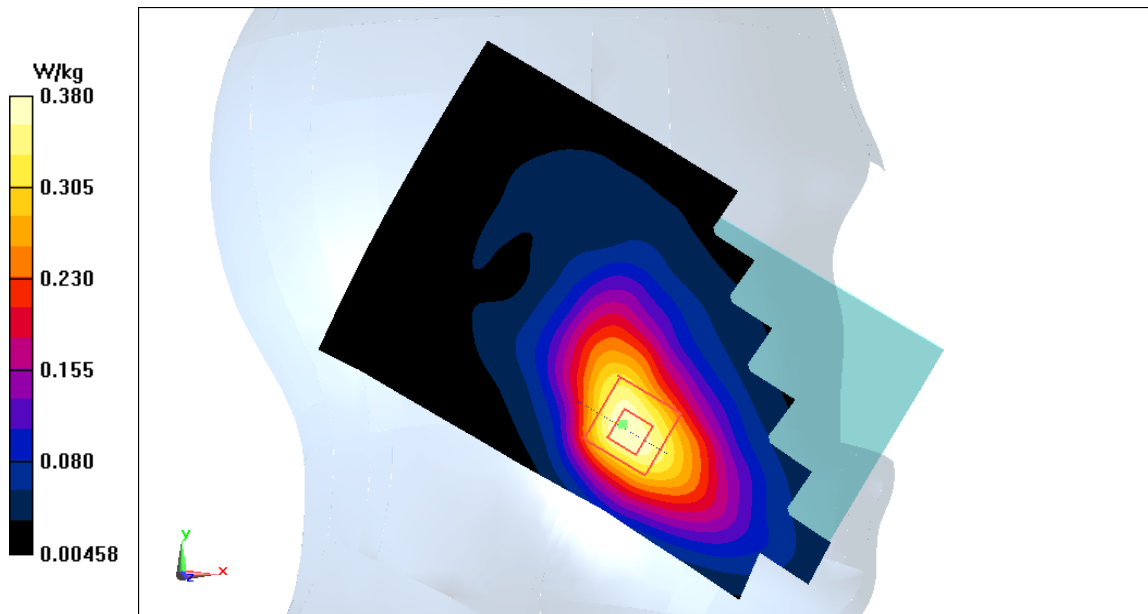


Figure A.11

**LTE1900-FDD2\_CH19100 Front**

Date: 4/8/2017

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.536$  mho/m;  $\epsilon_r = 53.19$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.57,7.57,7.57)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.535 W/kg

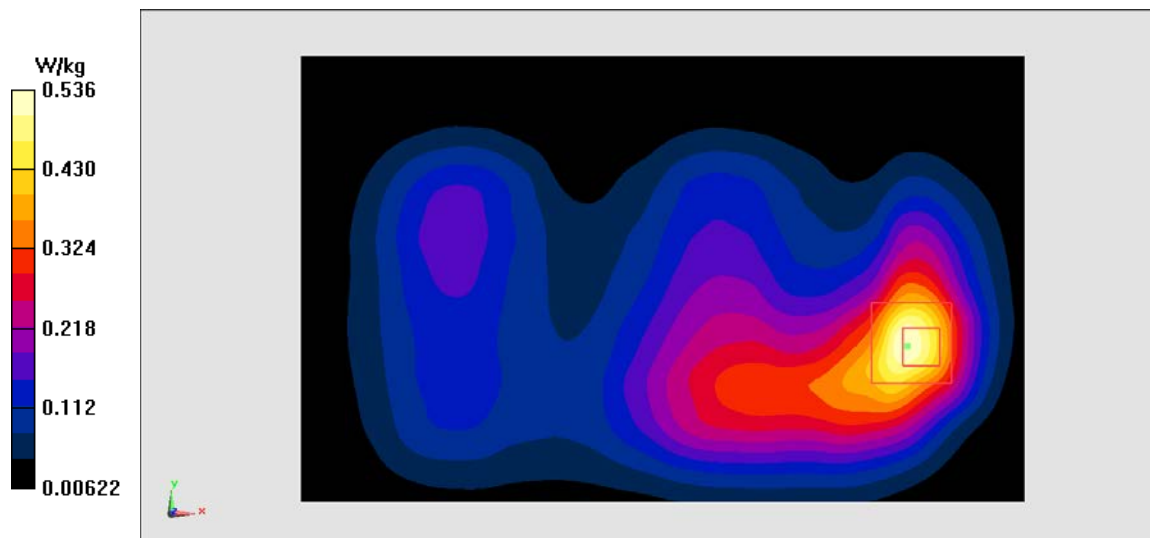
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.505 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.766 W/kg

**SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.233 W/kg**

Maximum value of SAR (measured) = 0.536 W/kg



**Figure A.12**

**LTE1700-FDD4\_CH20050 Left Cheek**

Date: 4/7/2017

Electronics: DAE4 Sn1331

Medium: Head 1750 MHz

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.352$  mho/m;  $\epsilon_r = 40.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE1700-FDD4 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(8.16,8.16,8.16)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.154 W/kg

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

Reference Value = 3.307 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.186 W/kg

**SAR(1 g) = 0.13 W/kg; SAR(10 g) = 0.085 W/kg**

Maximum value of SAR (measured) = 0.148 W/kg

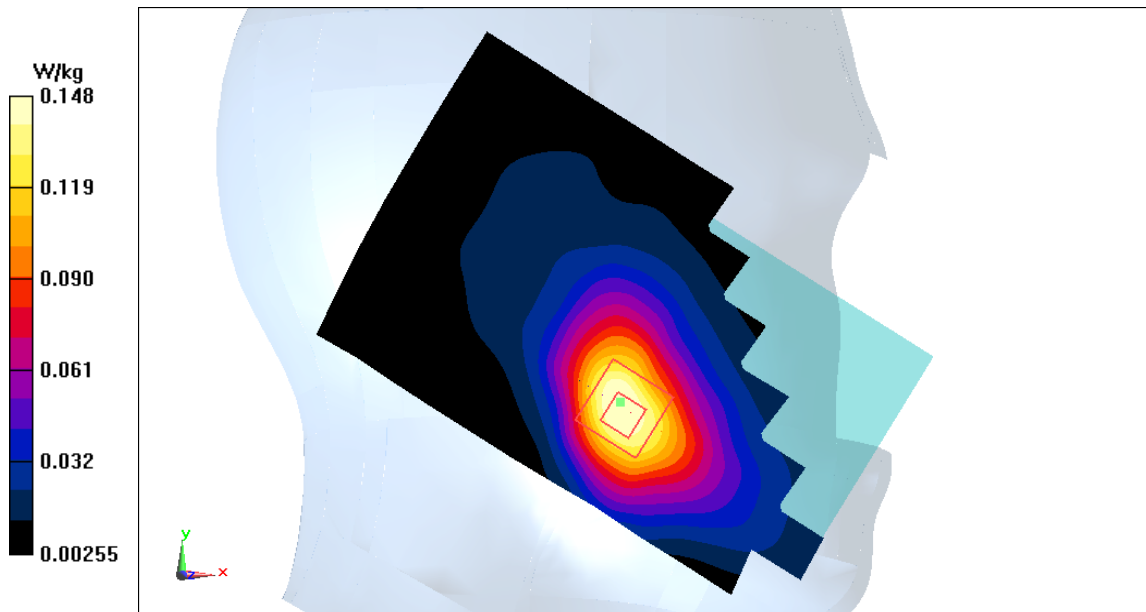


Figure A.13

**LTE1700-FDD4\_CH20050 Left edge**

Date: 4/7/2017

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.486$  mho/m;  $\epsilon_r = 53.26$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE1700-FDD4 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.90,7.90,7.90)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.217 W/kg

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

Reference Value = 8.154 V/m; Power Drift = 0 dB

Peak SAR (extrapolated) = 0.289 W/kg

**SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.109 W/kg**

Maximum value of SAR (measured) = 0.216 W/kg

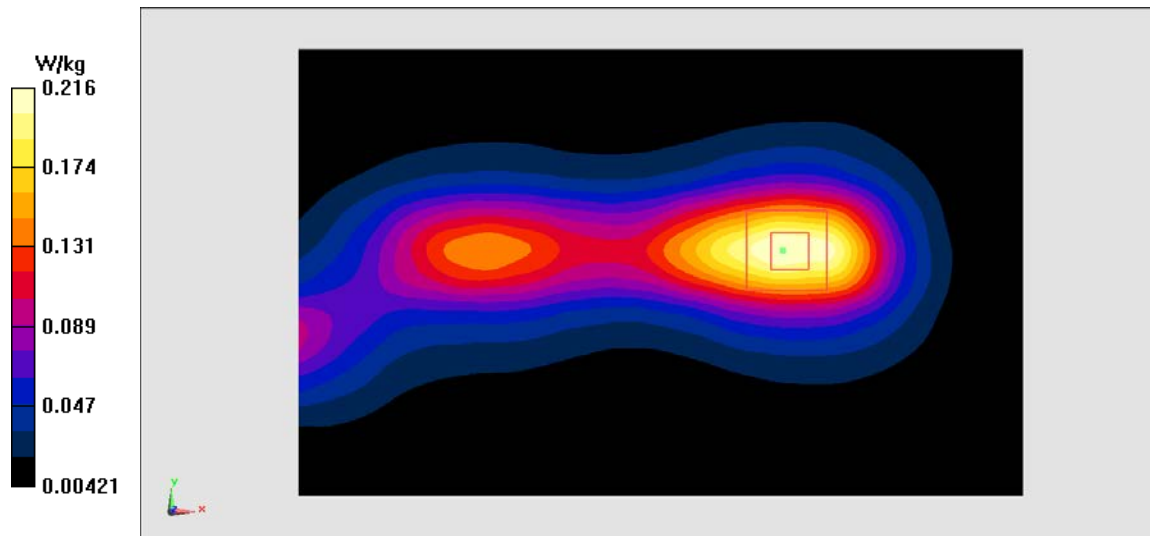


Figure A.14

**LTE2500-FDD7\_CH21350 Left Cheek**

Date: 4/10/2017

Electronics: DAE4 Sn1331

Medium: Head 2600 MHz

Medium parameters used:  $f = 2560$  MHz;  $\sigma = 1.928$  mho/m;  $\epsilon_r = 39.62$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE2500-FDD7 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.12,7.12,7.12)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.418 W/kg

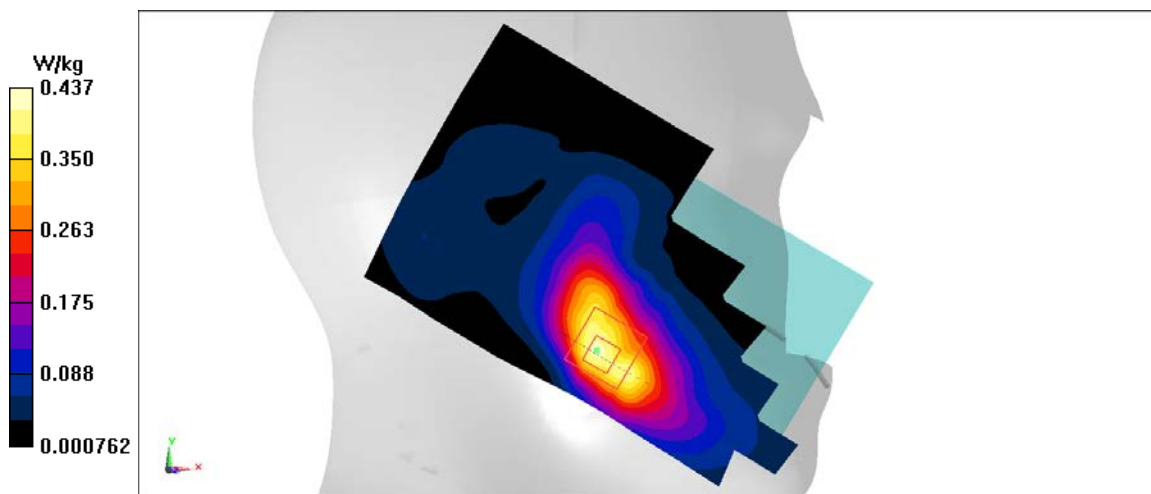
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.591 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.626 W/kg

**SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.206 W/kg**

Maximum value of SAR (measured) = 0.437 W/kg



**Figure A.15**

**LTE2500-FDD7\_CH21350 Left edge**

Date: 4/10/2017

Electronics: DAE4 Sn1331

Medium: Body 2600 MHz

Medium parameters used:  $f = 2560$  MHz;  $\sigma = 2.1$  mho/m;  $\epsilon_r = 51.66$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE2500-FDD7 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.25,7.25,7.25)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.58 W/kg

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

Reference Value = 12.63 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.842 W/kg

**SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.247 W/kg**

Maximum value of SAR (measured) = 0.578 W/kg

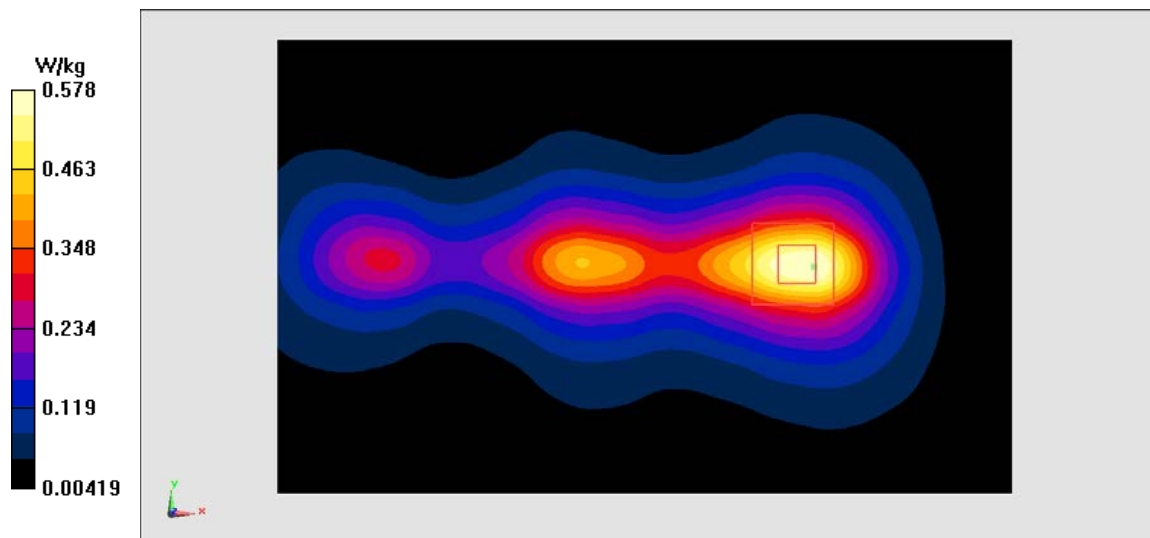


Figure A.16

**LTE700-FDD12\_CH23130 Right Cheek**

Date: 4/5/2017

Electronics: DAE4 Sn1331

Medium: Head 750 MHz

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.861$  mho/m;  $\epsilon_r = 41.75$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(9.65,9.65,9.65)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.135 W/kg

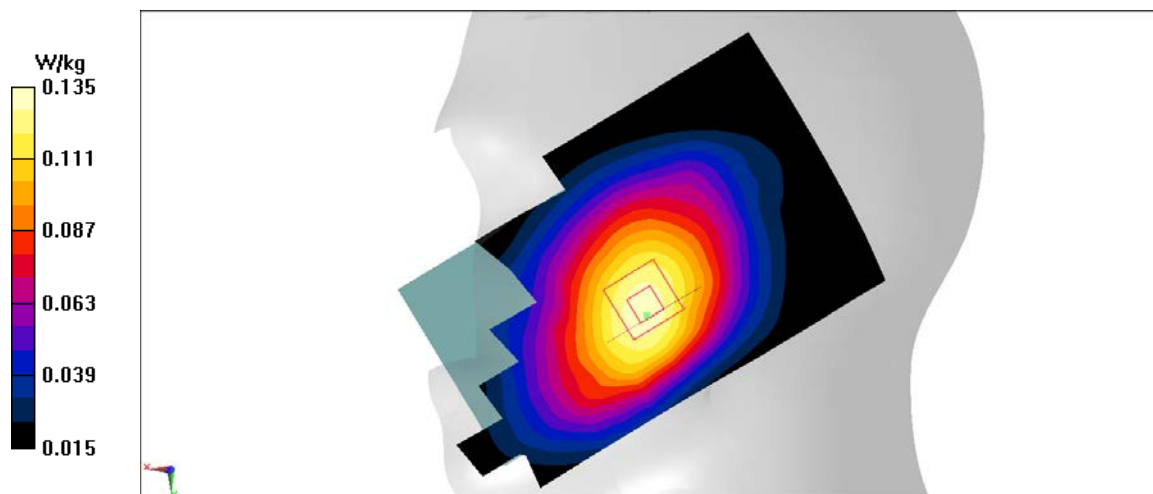
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.117 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.157 W/kg

**SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.098 W/kg**

Maximum value of SAR (measured) = 0.135 W/kg



**Figure A.17**

**LTE700-FDD12\_CH23130 Right edge**

Date: 4/5/2017

Electronics: DAE4 Sn1331

Medium: Body 750 MHz

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.914$  mho/m;  $\epsilon_r = 55.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(9.96,9.96,9.96)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.21 W/kg

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

Reference Value = 14.68 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.261 W/kg

**SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.129 W/kg**

Maximum value of SAR (measured) = 0.21 W/kg

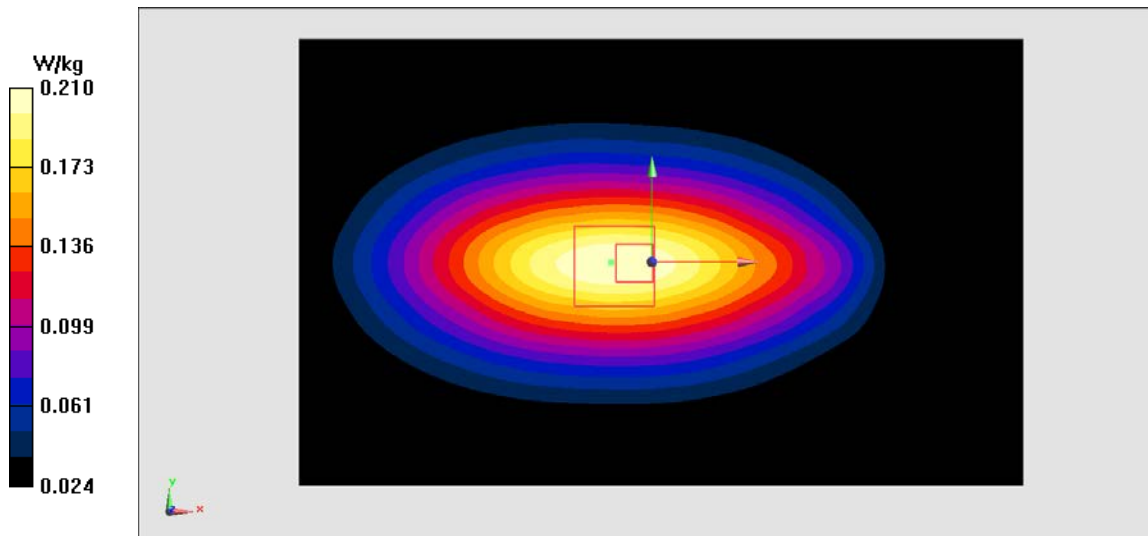


Figure A.18



**LTE2600-TDD38\_CH38150 Left Cheek**

Date: 4/10/2017

Electronics: DAE4 Sn1331

Medium: Head 2600 MHz

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 1.976$  mho/m;  $\epsilon_r = 39.56$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE2600-TDD38 2610 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN3846 ConvF(7.12,7.12,7.12)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.175 W/kg

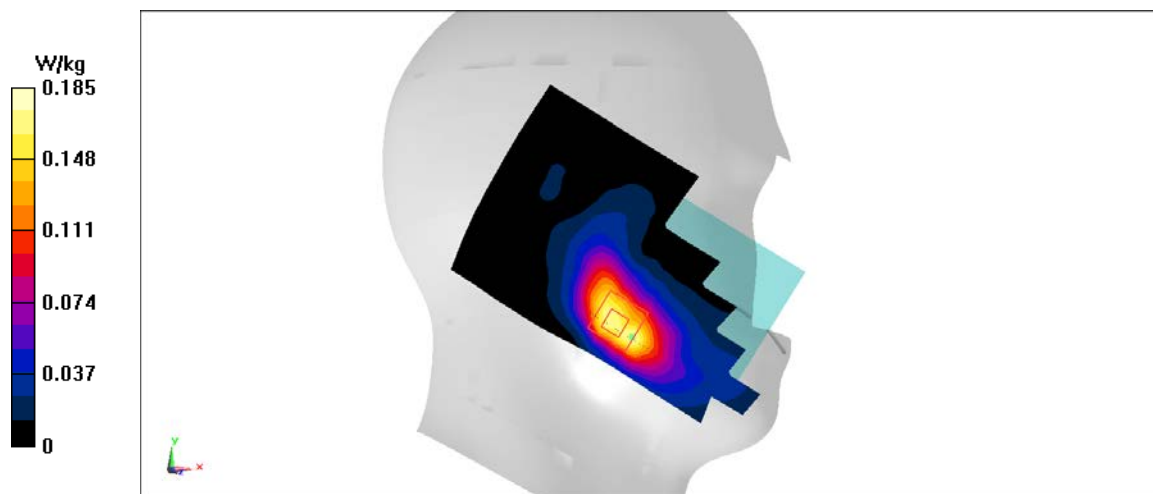
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.258 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.272 W/kg

**SAR(1 g) = 0.2 W/kg; SAR(10 g) = 0.101 W/kg**

Maximum value of SAR (measured) = 0.185 W/kg



**Figure A.19**

**LTE2600-TDD38\_CH38150 Front**

Date: 4/10/2017

Electronics: DAE4 Sn1331

Medium: Body 2600 MHz

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 2.148$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 23.3°C

Communication System: LTE2600-TDD38 2610 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN3846 ConvF(7.25,7.25,7.25)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 4.047 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.265 W/kg

**SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.083 W/kg**

Maximum value of SAR (measured) = 0.18 W/kg

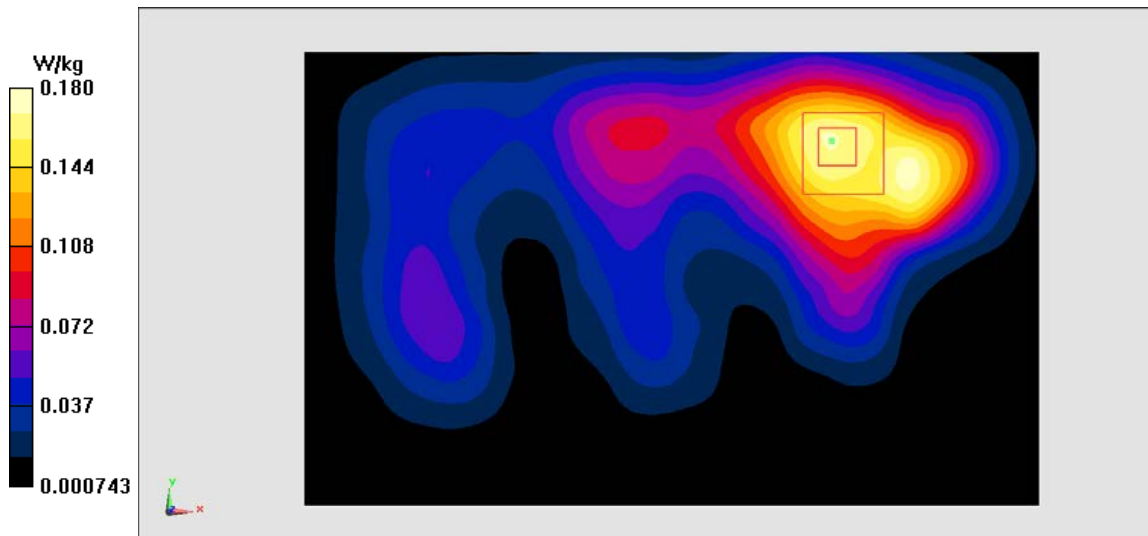


Figure A.20