

SAR TEST REPORT

The following samples were submitted and identified on behalf of the client as:

| | |
|-----------------------------|---|
| Equipment Under Test | PDA Phone |
| Model No. | C1904 |
| Brand Name | Sony |
| Type No. | PM-0480-BV |
| Company Name | Sony Mobile Communications AB |
| Company Address | Nya Vattentornet 22188 Lund/SWEDEN |
| Standards | OET 65 supplement C, IEEE /ANSI C95.1 , C95.3, IEEE 1528, RSS-102 |
| FCC ID | PY7PM-0480 |
| IC ID | 4170B-PM0480 |
| Date of Receipt | Apr. 10, 2013 |
| Date of Test(s) | May 04, 2013 ~ May 20, 2013 |
| Date of Issue | Jun. 07, 2013 |

In the configuration tested, the EUT complied with the standards specified above.

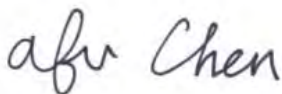
Remarks:

This report details the results of the testing carried out on two samples, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Engineer



AFu Chen

Date: Jun. 07, 2013

Asst. Manager



Kelly Tsai

Date: Jun. 07, 2013

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Version

| Report Number | Revision | Description | Issue Date |
|---------------|----------|---|--------------|
| EN/2013/40003 | Rev. 01 | Initial Version | 30 May 2013 |
| EN/2013/40003 | Rev. 02 | Modify "Marketing Name" to "Model No." and "Model No." to "Type No." on page 1 and 5. | 07 Jun. 2013 |
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This test report contains a reference to the previous version test report that it replaces.

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1. General Information

1.1 Testing Laboratory

| | |
|--|---|
| SGS Taiwan Ltd. Electronics & Communication Laboratory | |
| No.134, Wu Kung Road, New Taipei Industrial Park | |
| Wuku District, New Taipei City, Taiwan | |
| Tel | +886-2-2299-3279 |
| Fax | +886-2-2298-0488 |
| Internet | http://www.tw.sgs.com/ |
| Testing Location | 1F, No.8, Alley 15, Lane 120, Sec .1, NeiHu Road NeiHu District Taipei City 114, Taiwan |

1.2 Details of Applicant

| | |
|-----------------|------------------------------------|
| Company Name | Sony Mobile Communications AB |
| Company Address | Nya Vattentornet 22188 Lund/SWEDEN |

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1.3 Description of EUT

| | | | |
|------------------------|---|---|----------|
| EUT Name | PDA Phone | | |
| Model No. | C1904 | | |
| Brand Name | Sony | | |
| Type No. | PM-0480-BV | | |
| HW Version | A | | |
| SW Version | 15.1.A.1.3 | | |
| Serial No. | WWAN: YT9104WEQM / WLAN: YT9104WEW4 | | |
| IMEI Code | WWAN: 004402146634377 / WLAN: 004402146634351 | | |
| FCC ID | PY7PM-0480 | | |
| IC ID | 4170B-PM0480 | | |
| Mode of Operation | <input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> EDGE <input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n (20M/40M) <input checked="" type="checkbox"/> Bluetooth | | |
| Duty Cycle | GSM | 1/8.3 | |
| | GPRS (support multi class 12 max) | 1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP) | |
| | EDGE (support multi class 12 max) | 1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP) | |
| | WCDMA | 1 | |
| | WLAN 802.11 a/b/g/n(20M/40M) | 1 | |
| | Bluetooth | 1 | |
| | TX Frequency Range (MHz) | GSM850 | 824.2 |
| GSM1900 | | 1850.2 | — 1909.8 |
| WCDMA Band II | | 1852.4 | — 1907.6 |
| WCDMA Band IV | | 1712.4 | — 1752.6 |
| WCDMA Band V | | 826.4 | — 846.6 |
| WLAN 802.11 b/g/n(20M) | | 2412 | — 2462 |
| WLAN802.11 a 5.2G | | 5180 | — 5240 |
| WLAN802.11 a 5.3G | | 5260 | — 5320 |

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| | | | | |
|--------------------------|-------------------------|------|-----|------|
| TX Frequency Range (MHz) | WLAN802.11 a 5.5G | 5500 | — | 5700 |
| | WLAN802.11 a 5.8G | 5745 | — | 5825 |
| | WLAN802.11 n (20M) 5.2G | 5180 | — | 5240 |
| | WLAN802.11 n (20M) 5.3G | 5260 | — | 5320 |
| | WLAN802.11 n (20M) 5.5G | 5500 | — | 5700 |
| | WLAN802.11 n (20M) 5.8G | 5745 | — | 5825 |
| | WLAN802.11 n (40M) 5.2G | 5190 | — | 5230 |
| | WLAN802.11 n (40M) 5.3G | 5270 | — | 5310 |
| | WLAN802.11 n (40M) 5.5G | 5510 | — | 5670 |
| | WLAN802.11 n (40M) 5.8G | 5755 | — | 5795 |
| | Bluetooth | 2402 | — | 2480 |
| Channel Number (ARFCN) | GSM850 | 128 | — | 251 |
| | GSM1900 | 512 | — | 810 |
| | WCDMA Band II | 9262 | — | 9538 |
| | WCDMA Band IV | 1312 | — | 1513 |
| | WCDMA Band V | 4132 | — | 4233 |
| | WLAN 802.11 b/g/n(20M) | 1 | — | 11 |
| | WLAN802.11 a 5.2G | 36 | — | 48 |
| | WLAN802.11 a 5.3G | 52 | — | 64 |
| | WLAN802.11 a 5.5G | 100 | — | 140 |
| | WLAN802.11 a 5.8G | 149 | — | 165 |
| | WLAN802.11 n (20M) 5.2G | 36 | — | 48 |
| | WLAN802.11 n (20M) 5.3G | 52 | — | 64 |
| | WLAN802.11 n (20M) 5.5G | 100 | — | 140 |
| | WLAN802.11 n (20M) 5.8G | 149 | — | 165 |
| | WLAN802.11 n (40M) 5.2G | 38 | — | 46 |
| | WLAN802.11 n (40M) 5.3G | 54 | — | 62 |
| | WLAN802.11 n (40M) 5.5G | 102 | — | 134 |
| WLAN802.11 n (40M) 5.8G | 151 | — | 159 | |
| Bluetooth | 0 | — | 78 | |

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| Max. SAR (1 g) (Unit: W/Kg) | | | | |
|-----------------------------|----------------------------|----------|----------|--|
| Mode | Band | Measured | Reported | Position / Channel |
| Head | GSM 850 | 0.412 | 0.431 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 251 Channel |
| | GSM 1900 | 0.482 | 0.493 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 810 Channel |
| | WCDMA Band II | 1.05 | 1.154 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 9538 Channel |
| | WCDMA Band IV | 0.948 | 0.993 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 1412 Channel |
| | WCDMA Band V | 0.519 | 0.531 | <input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 4233 Channel |
| | WLAN802.11 b | 0.644 | 0.650 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 1 Channel |
| | WLAN802.11 n (20M) 5.2G | 0.384 | 0.388 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 48 Channel |
| | WLAN802.11a 5.3G | 0.563 | 0.583 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 60 Channel |
| | WLAN802.11n (20M) 5.5G | 0.614 | 0.627 | <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 100 Channel |
| | WLAN802.11n (40M) 5.8G | 0.368 | 0.372 | <input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 151 Channel |

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| Max. SAR (1 g) (Unit: W/Kg) | | | | |
|-----------------------------|---------------------|----------|----------|--|
| Mode | Band | Measured | Reported | Position / Channel |
| Body worn (speech mode) | GSM 850 | 0.439 | 0.460 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 190 Channel - with headset (MH410C) |
| | GSM 1900 | 0.342 | 0.358 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 661 Channel - with headset (MH410C) |
| | WCDMA Band II | 0.583 | 0.583 | <input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 9400 Channel - with headset (MH410C) |
| | WCDMA Band IV | 0.521 | 0.546 | <input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 1412 Channel - with headset (MH410C) |
| | WCDMA Band V | 0.293 | 0.297 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 4183 Channel - with headset (MH410C) |
| Hotspot mode | GPRS 850 1Dn4UP | 0.873 | 0.893 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 251 Channel |
| | GPRS 1900 1Dn4UP | 1.22 | 1.338 | <input checked="" type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 810 Channel - with headset (MH410C) |
| | WCDMA Band II | 1.07 | 1.176 | <input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 9538 Channel |

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| Max. SAR (1 g) (Unit: W/Kg) | | | | |
|-----------------------------|------------------------|----------|----------|--|
| Mode | Band | Measured | Reported | Position / Channel |
| Hotspot mode | WCDMA Band IV | 1.01 | 1.058 | <input checked="" type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 1412 Channel |
| | WCDMA Band V | 0.91 | 0.931 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 4233 Channel |
| | WLAN802.11 b | 0.179 | 0.181 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left 11 Channel |
| | WLAN802.11 n(20M) 5.2G | 0.152 | 0.154 | <input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left 48 Channel |
| | WLAN802.11a 5.3G | 0.208 | 0.215 | <input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left 60 Channel |
| | WLAN802.11a 5.5G | 0.311 | 0.313 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left 116 Channel |
| | WLAN802.11n (20M) 5.8G | 0.111 | 0.112 | <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 149 Channel |

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| Max. reported SAR WWAN and WLAN DTS 2.4 GHz, Σ SAR evaluation | | | | | | | |
|--|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| GSM 850 | Head | Right cheek | 0.431 | 0.650 | 1.081 | - | - |
| GPRS 850 (1Dn4UP) | Hotspot | Back | 0.893 | 0.181 | 1.074 | - | - |
| GSM 1900 | Head | Right cheek | 0.493 | 0.650 | 1.143 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Front | 1.338 | 0.128 | 1.466 | - | - |
| WCDMA Band II | Head | Right cheek | 1.154 | 0.650 | 1.804 | 84.4 | 0.029 |
| WCDMA Band II | Hotspot | Back | 1.121 | 0.181 | 1.302 | - | - |
| WCDMA Band IV | Head | Right cheek | 0.993 | 0.650 | 1.643 | 82.3 | 0.026 |
| WCDMA Band IV | Hotspot | Front | 1.058 | 0.128 | 1.186 | - | - |
| WCDMA Band V | Head | Right cheek | 0.349 | 0.650 | 0.999 | - | - |
| WCDMA Band V | Hotspot | Back | 0.931 | 0.181 | 1.112 | - | - |

Note:

We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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| Max. reported SAR WWAN and WLAN DTS 5.8 GHz, Σ SAR evaluation | | | | | | | |
|--|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| GSM 850 | Head | Left tilt | 0.345 | 0.372 | 0.717 | - | - |
| GPRS 850 (1Dn4UP) | Hotspot | Back | 0.893 | 0.112 | 1.005 | - | - |
| GSM 1900 | Head | Right cheek | 0.493 | 0.28 | 0.773 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Front | 1.338 | 0.05 | 1.388 | - | - |
| WCDMA Band II | Head | Right cheek | 1.154 | 0.28 | 1.434 | - | - |
| WCDMA Band II | Hotspot | Back | 1.121 | 0.112 | 1.233 | - | - |
| WCDMA Band IV | Head | Right cheek | 0.993 | 0.28 | 1.273 | - | - |
| WCDMA Band IV | Hotspot | Front | 1.058 | 0.05 | 1.108 | - | - |
| WCDMA Band V | Head | Left cheek | 0.531 | 0.288 | 0.819 | - | - |
| WCDMA Band V | Hotspot | Back | 0.931 | 0.112 | 1.043 | - | - |

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| Max. reported SAR WWAN and WLAN UNII 5 GHz, Σ SAR evaluation | | | | | | | |
|---|----------|-------------|---------------------|-------|--------------------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR <1.6W/kg | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | | | |
| GSM 850 | Head | Right cheek | 0.431 | 0.593 | 1.024 | - | - |
| GPRS 850 (1Dn4UP) | Hotspot | Back | 0.893 | 0.313 | 1.206 | - | - |
| GSM 1900 | Head | Right cheek | 0.493 | 0.593 | 1.086 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Back | 1.206 | 0.313 | 1.519 | - | - |
| WCDMA Band II | Head | Right cheek | 1.154 | 0.593 | 1.747 | 92.1 | 0.025 |
| WCDMA Band II | Hotspot | Back | 1.121 | 0.313 | 1.434 | - | - |
| WCDMA Band IV | Head | Right cheek | 0.993 | 0.593 | 1.586 | - | - |
| WCDMA Band IV | Hotspot | Back | 0.954 | 0.313 | 1.267 | - | - |
| WCDMA Band V | Head | Left cheek | 0.531 | 0.585 | 1.116 | - | - |
| WCDMA Band V | Hotspot | Back | 0.931 | 0.313 | 1.244 | - | - |

Note:
We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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| Max. reported SAR WWAN and Bluetooth, Σ SAR evaluation | | | | | | | |
|---|----------|-------|---------------------|-----------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | Bluetooth | <1.6W/kg | | |
| GPRS 850 (1Dn4UP) | Hotspot | Back | 0.893 | 0.184 | 1.077 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Front | 1.338 | 0.184 | 1.522 | - | - |
| WCDMA Band II | Hotspot | Back | 1.121 | 0.184 | 1.305 | - | - |
| WCDMA Band IV | Hotspot | Front | 1.058 | 0.184 | 1.242 | - | - |
| WCDMA Band V | Hotspot | Back | 0.931 | 0.184 | 1.115 | - | - |

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#. GSM/GPRS/EDGE conducted power table:

| EUT mode | Frequency (MHz) | CH | Max. Rated Avg. Power + Max. Tolerance (dBm) | Burst average power | Source-based time average power |
|--|-----------------|-----|--|---------------------|---------------------------------|
| | | | | Avg.(dBm) | Avg.(dBm) |
| GSM 850 (GMSK) | 824.2 | 128 | 33.5 | 33.30 | 24.27 |
| | 836.6 | 190 | 33.5 | 33.30 | 24.27 |
| | 848.8 | 251 | 33.5 | 33.30 | 24.27 |
| The division factor compared to the number of TX time slot | | | | | |
| Division factor | | | | 1 TX time slot | |
| | | | | -9.03 | |

| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 33.5 | 30 | 28.5 | 28 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| GPRS 850 (GMSK) | 824.2 | 128 | 33.30 | 29.80 | 28.20 | 28.00 |
| | 836.6 | 190 | 33.40 | 29.60 | 28.30 | 27.90 |
| | 848.8 | 251 | 33.30 | 29.70 | 28.30 | 27.90 |
| Source-based time average power | | | | | | |
| GPRS 850 (GMSK) | 824.2 | 128 | 24.27 | 23.78 | 23.94 | 24.99 |
| | 836.6 | 190 | 24.37 | 23.58 | 24.04 | 24.89 |
| | 848.8 | 251 | 24.27 | 23.68 | 24.04 | 24.89 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | | | | -9.03 |

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| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 27 | 27 | 26.5 | 26.5 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| EDGE 850 (MCS 5) | 824.2 | 128 | 26.80 | 26.60 | 26.50 | 26.30 |
| | 836.6 | 190 | 26.80 | 26.60 | 26.40 | 26.30 |
| | 848.8 | 251 | 26.80 | 26.60 | 26.40 | 26.40 |
| Source-based time average power | | | | | | |
| EDGE 850 (MCS 5) | 824.2 | 128 | 17.77 | 20.58 | 22.24 | 23.29 |
| | 836.6 | 190 | 17.77 | 20.58 | 22.14 | 23.29 |
| | 848.8 | 251 | 17.77 | 20.58 | 22.14 | 23.39 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | -9.03 | -6.02 | -4.26 | -3.01 |

| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 33.5 | 30 | 28.5 | 28 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| EDGE 850 (MCS 4) | 824.2 | 128 | 33.40 | 29.60 | 27.90 | 27.60 |
| | 836.6 | 190 | 33.50 | 29.40 | 27.70 | 27.50 |
| | 848.8 | 251 | 33.50 | 29.50 | 27.80 | 27.50 |
| Source-based time average power | | | | | | |
| EDGE 850 (MCS 4) | 824.2 | 128 | 24.37 | 23.58 | 23.64 | 24.59 |
| | 836.6 | 190 | 24.47 | 23.38 | 23.44 | 24.49 |
| | 848.8 | 251 | 24.47 | 23.48 | 23.54 | 24.49 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | -9.03 | -6.02 | -4.26 | -3.01 |

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| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 27 | 27 | 26.5 | 26.5 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| EDGE 850 (MCS 9) | 824.2 | 128 | 26.70 | 26.60 | 26.50 | 26.40 |
| | 836.6 | 190 | 26.70 | 26.60 | 26.40 | 26.40 |
| | 848.8 | 251 | 26.70 | 26.60 | 26.40 | 26.30 |
| Source-based time average power | | | | | | |
| EDGE 850 (MCS 9) | 824.2 | 128 | 17.67 | 20.58 | 22.24 | 23.39 |
| | 836.6 | 190 | 17.67 | 20.58 | 22.14 | 23.39 |
| | 848.8 | 251 | 17.67 | 20.58 | 22.14 | 23.29 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | -9.03 | -6.02 | -4.26 | -3.01 |

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| EUT mode | Frequency (MHz) | CH | Max. Rated Avg. Power + Max. Tolerance (dBm) | Burst average power | Source-based time average power |
|--|-----------------|-----|--|---------------------|---------------------------------|
| | | | | Avg.(dBm) | Avg.(dBm) |
| GSM 1900 (GMSK) | 1850.2 | 512 | 30.5 | 30.40 | 21.37 |
| | 1880 | 661 | 30.5 | 30.30 | 21.27 |
| | 1909.8 | 810 | 30.5 | 30.40 | 21.37 |
| The division factor compared to the number of TX time slot | | | | | |
| Division factor | | | | 1 TX time slot | |
| | | | | -9.03 | |

| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 30.5 | 30 | 28.5 | 28 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| GPRS 1900 (GMSK) | 1850.2 | 512 | 30.50 | 29.80 | 28.50 | 28.00 |
| | 1880 | 661 | 30.30 | 29.80 | 28.30 | 27.80 |
| | 1909.8 | 810 | 30.50 | 29.60 | 28.40 | 27.60 |
| Source-based time average power | | | | | | |
| GPRS 1900 (GMSK) | 1850.2 | 512 | 21.47 | 23.78 | 24.24 | 24.99 |
| | 1880 | 661 | 21.27 | 23.78 | 24.04 | 24.79 |
| | 1909.8 | 810 | 21.47 | 23.58 | 24.14 | 24.59 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | -9.03 | -6.02 | -4.26 | -3.01 |

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| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 26 | 25.5 | 25.5 | 25 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| EDGE 1900 (MCS 5) | 1850.2 | 512 | 25.80 | 25.50 | 25.20 | 25.00 |
| | 1880 | 661 | 25.60 | 25.30 | 25.00 | 24.80 |
| | 1909.8 | 810 | 25.40 | 25.10 | 25.10 | 24.70 |
| Source-based time average power | | | | | | |
| EDGE 1900 (MCS 5) | 1850.2 | 512 | 16.77 | 19.48 | 20.94 | 21.99 |
| | 1880 | 661 | 16.57 | 19.28 | 20.74 | 21.79 |
| | 1909.8 | 810 | 16.37 | 19.08 | 20.84 | 21.69 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | -9.03 | -6.02 | -4.26 | -3.01 |

| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 30.5 | 30 | 28.5 | 28 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| EDGE 1900 (MCS 4) | 1850.2 | 512 | 30.30 | 29.40 | 28.40 | 27.70 |
| | 1880 | 661 | 30.20 | 29.20 | 28.20 | 27.50 |
| | 1909.8 | 810 | 30.30 | 29.30 | 28.10 | 27.50 |
| Source-based time average power | | | | | | |
| EDGE 1900 (MCS 4) | 1850.2 | 512 | 21.27 | 23.38 | 24.14 | 24.69 |
| | 1880 | 661 | 21.17 | 23.18 | 23.94 | 24.49 |
| | 1909.8 | 810 | 21.27 | 23.28 | 23.84 | 24.49 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | -9.03 | -6.02 | -4.26 | -3.01 |

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| Burst average power | | | | | | |
|--|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm) | | | 26 | 25.5 | 25.5 | 25 |
| | | | 1Dn1UP | 1Dn2UP | 1Dn3UP | 1Dn4UP |
| EUT mode | Frequency (MHz) | CH | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) | Avg. (dBm) |
| EDGE 1900 (MCS 9) | 1850.2 | 512 | 25.50 | 25.50 | 25.30 | 25.00 |
| | 1880 | 661 | 25.40 | 25.20 | 25.00 | 24.80 |
| | 1909.8 | 810 | 25.20 | 25.00 | 24.80 | 24.60 |
| Source-based time average power | | | | | | |
| EDGE 1900 (MCS 9) | 1850.2 | 512 | 16.47 | 19.48 | 21.04 | 21.99 |
| | 1880 | 661 | 16.37 | 19.18 | 20.74 | 21.79 |
| | 1909.8 | 810 | 16.17 | 18.98 | 20.54 | 21.59 |
| The division factor compared to the number of TX time slot | | | | | | |
| Division factor | | | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
| | | | -9.03 | -6.02 | -4.26 | -3.01 |

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#. WCDMA Band II / Band IV / Band V / HSDPA / HSUPA conducted power table:

| Band | CH | Max. Rated Avg. Power + Max. Tolerance (dBm) | Rel99 AV(dBm) | HSDPA mode AV(dBm) | | | | HSUPA mode AV(dBm) | | | | |
|---------------------|------|--|---------------|--------------------|-------|-------|-------|--------------------|-------|-------|-------|-------|
| | | | | SUB-1 | SUB-2 | SUB-3 | SUB-4 | SUB-1 | SUB-2 | SUB-3 | SUB-4 | SUB-5 |
| WCDMA Band II Rel 6 | 9262 | 24.5 | 24.40 | 24.50 | 24.28 | 24.02 | 24.09 | 24.32 | 22.37 | 23.38 | 22.5 | 24.21 |
| | 9400 | 24.5 | 24.50 | 24.39 | 24.36 | 23.94 | 23.95 | 24.48 | 22.55 | 23.5 | 22.6 | 24.34 |
| | 9538 | 24.5 | 24.09 | 23.95 | 23.94 | 23.42 | 23.54 | 24.03 | 22.07 | 23.11 | 22.11 | 23.94 |
| WCDMA Band IV Rel 6 | 1312 | 24.5 | 24.29 | 24.00 | 24.17 | 23.52 | 23.59 | 24.21 | 22.26 | 23.27 | 22.39 | 24.1 |
| | 1412 | 24.5 | 24.30 | 24.40 | 24.16 | 23.95 | 23.96 | 24.28 | 22.35 | 23.3 | 22.4 | 24.14 |
| | 1513 | 24.5 | 24.48 | 24.32 | 24.33 | 23.79 | 23.91 | 24.42 | 22.46 | 23.5 | 22.5 | 24.33 |
| WCDMA Band V Rel 6 | 4132 | 24.5 | 24.47 | 24.26 | 24.40 | 23.8 | 23.85 | 24.43 | 22.49 | 23.47 | 22.54 | 24.29 |
| | 4183 | 24.5 | 24.44 | 24.30 | 24.33 | 23.82 | 23.86 | 24.37 | 22.45 | 23.43 | 22.51 | 24.2 |
| | 4233 | 24.5 | 24.40 | 24.48 | 24.27 | 23.99 | 24.05 | 24.32 | 22.36 | 23.4 | 22.44 | 24.21 |

HSDPA

| SUB-TEST | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} (Note 1, Note 2) | CM (dB) (Note 3) | MPR (dB) (Note 3) |
|----------|-----------|-----------|----------------|-------------------|-------------------------------|------------------|-------------------|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 |
| 2 | 12/15 | 15/15 | 64 | 12/15 | 24/15 | 1.0 | 0.0 |
| 3 | 15/15 | 8/15 | 64 | 15/8 | 30/15 | 1.5 | 0.5 |
| 4 | 15/15 | 4/15 | 64 | 15/4 | 30/15 | 1.5 | 0.5 |

HSUPA

| SUB-TEST | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} (Note 1) | β_{ec} | β_{ed} (Note 5) (Note 6) | β_{ed} (SF) | β_{ed} (Codes) | CM (dB) (Note 2) | MPR (dB) (Note 2) | AG Index (Note 6) | E-TFCI |
|----------|-----------|-----------|----------------|-------------------|-----------------------|--------------|--|-------------------|----------------------|------------------|-------------------|-------------------|--------|
| 1 | 11/15 | 15/15 | 64 | 11/15 | 22/15 | 209/225 | 1309/225 | 4 | 1 | 1.0 | 0.0 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 94/75 | 4 | 1 | 3.0 | 2.0 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | β_{ed1} : 47/15 β_{ed2} : 47/15 | 4 4 | 2 | 2.0 | 1.0 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 2/15 | 56/75 | 4 | 1 | 3.0 | 2.0 | 17 | 71 |
| 5 | 15/15 | 15/15 | 64 | 15/15 | 30/15 | 24/15 | 134/15 | 4 | 1 | 1.0 | 0.0 | 21 | 81 |

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#. WLAN802.11 a/b/g/n (20M/40M) conducted power table:

| 802.11b | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Power Output (dBm) | | | |
|---------|--------------------|--|----------------------------|-------|-------|-------|
| CH | Frequency (MHz) | | Data Rate (Mbps) | | | |
| | | | 1 | 2 | 5.5 | 11 |
| 1 | 2412 | 15.0 | 14.96 | 14.93 | 14.90 | 14.87 |
| 6 | 2437 | 15.0 | 14.99 | 14.95 | 14.91 | 14.88 |
| 11 | 2462 | 15.0 | 14.95 | 14.91 | 14.88 | 14.85 |

| 802.11g | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Power Output(dBm) | | | | | | | |
|---------|--------------------|--|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| CH | Frequency (MHz) | | Data Rate (Mbps) | | | | | | | |
| | | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 |
| 1 | 2412 | 12.5 | 12.12 | 12.06 | 12.00 | 11.98 | 11.94 | 11.90 | 11.87 | 11.85 |
| 6 | 2437 | 12.5 | 12.45 | 12.39 | 12.33 | 12.30 | 12.24 | 12.20 | 12.16 | 12.13 |
| 11 | 2462 | 12.5 | 12.40 | 12.34 | 12.28 | 12.21 | 12.15 | 12.11 | 12.07 | 12.04 |

| 802.11n (20M) | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Power Output(dBm) | | | | | | | |
|---------------|--------------------|--|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| CH | Frequency (MHz) | | Data Rate (Mbps) | | | | | | | |
| | | | 6.5 | 13 | 19.5 | 26 | 39 | 52 | 58.5 | 65 |
| 1 | 2412 | 12.5 | 12.30 | 12.27 | 12.25 | 12.23 | 12.21 | 12.19 | 12.17 | 12.15 |
| 6 | 2437 | 12.5 | 12.33 | 12.30 | 12.28 | 12.26 | 12.23 | 12.21 | 12.19 | 12.17 |
| 11 | 2462 | 12.5 | 12.35 | 12.32 | 12.29 | 12.27 | 12.25 | 12.22 | 12.20 | 12.18 |

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| 802.11a | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Power (dBm) | | | | | | | |
|---------------------|--------------------|---|---------------------|-------|-------|-------|-------|-------|-------|-------|
| 5.2G/5.3G/5.5G/5.8G | | | Data Rate (Mbps) | | | | | | | |
| CH | Frequency (MHz) | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 |
| 36 | 5180 | 13.0 | 12.95 | 12.93 | 12.92 | 12.90 | 12.88 | 12.86 | 12.84 | 12.81 |
| 40 | 5200 | 13.0 | 12.88 | 12.86 | 12.85 | 12.83 | 12.80 | 12.78 | 12.76 | 12.74 |
| 44 | 5220 | 13.0 | 12.86 | 12.84 | 12.82 | 12.79 | 12.76 | 12.74 | 12.72 | 12.71 |
| 48 | 5240 | 13.0 | 12.84 | 12.82 | 12.80 | 12.79 | 12.77 | 12.74 | 12.72 | 12.69 |
| 52 | 5260 | 13.0 | 12.85 | 12.83 | 12.81 | 12.79 | 12.76 | 12.74 | 12.71 | 12.69 |
| 56 | 5280 | 13.0 | 12.88 | 12.83 | 12.80 | 12.78 | 12.76 | 12.73 | 12.72 | 12.70 |
| 60 | 5300 | 13.0 | 12.85 | 12.82 | 12.80 | 12.79 | 12.77 | 12.74 | 12.72 | 12.69 |
| 64 | 5320 | 13.0 | 12.82 | 12.80 | 12.77 | 12.76 | 12.74 | 12.73 | 12.71 | 12.68 |
| 100 | 5500 | 13.0 | 12.89 | 12.87 | 12.84 | 12.83 | 12.80 | 12.79 | 12.77 | 12.74 |
| 104 | 5520 | 13.0 | 12.84 | 12.82 | 12.81 | 12.80 | 12.77 | 12.75 | 12.73 | 12.71 |
| 108 | 5540 | 13.0 | 12.85 | 12.83 | 12.81 | 12.79 | 12.76 | 12.73 | 12.72 | 12.70 |
| 112 | 5560 | 13.0 | 12.95 | 12.93 | 12.90 | 12.89 | 12.86 | 12.84 | 12.81 | 12.79 |
| 116 | 5580 | 13.0 | 12.97 | 12.95 | 12.94 | 12.91 | 12.88 | 12.86 | 12.83 | 12.80 |
| 120 | 5600 | 13.0 | 12.93 | 12.91 | 12.89 | 12.86 | 12.84 | 12.82 | 12.81 | 12.78 |
| 124 | 5620 | 13.0 | 12.94 | 12.91 | 12.89 | 12.86 | 12.83 | 12.81 | 12.80 | 12.77 |
| 128 | 5640 | 13.0 | 12.92 | 12.90 | 12.87 | 12.84 | 12.83 | 12.80 | 12.79 | 12.77 |
| 132 | 5660 | 13.0 | 12.95 | 12.93 | 12.90 | 12.89 | 12.86 | 12.84 | 12.81 | 12.79 |
| 136 | 5680 | 13.0 | 12.95 | 12.92 | 12.89 | 12.86 | 12.84 | 12.82 | 12.81 | 12.78 |
| 140 | 5700 | 13.0 | 12.96 | 12.93 | 12.90 | 12.89 | 12.86 | 12.84 | 12.81 | 12.79 |
| 149 | 5745 | 13.0 | 12.96 | 12.94 | 12.91 | 12.88 | 12.86 | 12.83 | 12.80 | 12.78 |
| 153 | 5765 | 13.0 | 12.82 | 12.80 | 12.77 | 12.76 | 12.74 | 12.73 | 12.71 | 12.68 |
| 157 | 5785 | 13.0 | 12.85 | 12.83 | 12.81 | 12.79 | 12.76 | 12.74 | 12.71 | 12.69 |
| 161 | 5805 | 13.0 | 12.87 | 12.85 | 12.83 | 12.80 | 12.78 | 12.76 | 12.74 | 12.71 |
| 165 | 5825 | 13.0 | 12.84 | 12.82 | 12.79 | 12.76 | 12.74 | 12.72 | 12.71 | 12.68 |

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| 802.11n(20M) | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Power (dBm) | | | | | | | |
|---------------------|--------------------|---|---------------------|-------|-------|-------|-------|-------|-------|-------|
| 5.2G/5.3G/5.5G/5.8G | | | Data Rate (Mbps) | | | | | | | |
| CH | Frequency (MHz) | | 6.5 | 13 | 19.5 | 26 | 39 | 52 | 58.5 | 65 |
| 36 | 5180 | 13.0 | 12.96 | 12.94 | 12.92 | 12.91 | 12.89 | 12.88 | 12.85 | 12.84 |
| 44 | 5220 | 13.0 | 12.97 | 12.95 | 12.93 | 12.92 | 12.90 | 12.88 | 12.86 | 12.85 |
| 48 | 5240 | 13.0 | 12.95 | 12.93 | 12.92 | 12.90 | 12.88 | 12.86 | 12.85 | 12.84 |
| 52 | 5260 | 13.0 | 12.94 | 12.92 | 12.91 | 12.89 | 12.88 | 12.85 | 12.84 | 12.83 |
| 60 | 5300 | 13.0 | 12.94 | 12.92 | 12.91 | 12.89 | 12.88 | 12.85 | 12.84 | 12.83 |
| 64 | 5320 | 13.0 | 12.90 | 12.88 | 12.86 | 12.85 | 12.84 | 12.83 | 12.81 | 12.80 |
| 100 | 5500 | 13.0 | 12.91 | 12.89 | 12.88 | 12.85 | 12.84 | 12.83 | 12.81 | 12.80 |
| 116 | 5580 | 13.0 | 12.97 | 12.95 | 12.93 | 12.92 | 12.90 | 12.88 | 12.86 | 12.84 |
| 140 | 5700 | 13.0 | 12.96 | 12.94 | 12.92 | 12.90 | 12.89 | 12.88 | 12.86 | 12.84 |
| 149 | 5745 | 13.0 | 12.97 | 12.95 | 12.93 | 12.92 | 12.91 | 12.88 | 12.86 | 12.85 |
| 157 | 5785 | 13.0 | 12.96 | 12.94 | 12.92 | 12.91 | 12.89 | 12.88 | 12.85 | 12.84 |
| 165 | 5825 | 13.0 | 12.93 | 12.92 | 12.91 | 12.89 | 12.88 | 12.85 | 12.84 | 12.83 |

| 802.11n(40M) | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Power (dBm) | | | | | | | |
|---------------------|--------------------|---|---------------------|-------|-------|-------|-------|-------|-------|-------|
| 5.2G/5.3G/5.5G/5.8G | | | Data Rate (Mbps) | | | | | | | |
| CH | Frequency (MHz) | | 13.5 | 27 | 40.5 | 54 | 81 | 108 | 121.5 | 135 |
| 38 | 5190 | 12.0 | 11.88 | 11.86 | 11.85 | 11.83 | 11.81 | 11.79 | 11.77 | 11.75 |
| 46 | 5230 | 12.0 | 11.85 | 11.84 | 11.82 | 11.80 | 11.77 | 11.74 | 11.72 | 11.70 |
| 54 | 5270 | 12.0 | 11.94 | 11.92 | 11.90 | 11.88 | 11.85 | 11.83 | 11.80 | 11.79 |
| 62 | 5310 | 12.0 | 11.91 | 11.88 | 11.86 | 11.85 | 11.83 | 11.81 | 11.79 | 11.77 |
| 102 | 5510 | 12.0 | 11.79 | 11.77 | 11.74 | 11.72 | 11.70 | 11.68 | 11.67 | 11.65 |
| 118 | 5590 | 12.0 | 11.97 | 11.94 | 11.92 | 11.90 | 11.88 | 11.85 | 11.84 | 11.82 |
| 134 | 5670 | 12.0 | 11.92 | 11.89 | 11.86 | 11.85 | 11.83 | 11.81 | 11.79 | 11.77 |
| 151 | 5755 | 12.0 | 11.95 | 11.92 | 11.90 | 11.88 | 11.85 | 11.83 | 11.80 | 11.79 |
| 159 | 5795 | 12.0 | 11.96 | 11.94 | 11.92 | 11.90 | 11.88 | 11.85 | 11.84 | 11.82 |

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#. Bluetooth conducted power table:

| Frequency (MHz) | Peak (dBm) | | |
|--------------------|------------|-------|-------|
| | BDR | 4DPSK | 8DPSK |
| 2402 | 8.41 | 9.41 | 9.5 |
| 2441 | 8.38 | 9.39 | 9.48 |
| 2480 | 8.13 | 9.13 | 9.22 |

| Frequency (MHz) | Peak (dBm) |
|--------------------|------------|
| | BT4.0 |
| 2402 | 1.26 |
| 2442 | 1.46 |
| 2480 | 0.98 |

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1.4 Test Environment

Ambient Temperature : $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid: $22 \pm 2^\circ \text{C}$

1.5 Operation Description

General:

1. The EUT is controlled by using a Radio Communication Tester (R&S CMU200), and the communication between the EUT and the tester is established by air link.
2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
3. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
4. Testing head SAR at lowest, middle and highest channel for all bands with Left Tilt /Left Cheek/Right Tilt/Right Cheek conditions.
5. Testing body-worn speech mode SAR by separating the EUT and the phantom **15mm** distance when performing GSM850, GSM1900, WCDMA Band II, WCDMA Band IV and WCDMA Band V. (Both front side & back side)
6. Testing hotspot mode SAR by separating the EUT and the phantom **10mm** distance.
 - #. The SAR testing for portable devices with wireless router capability is referred as test guidance of **KDB 941225 D06v01** (SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities).
 - #. The following procedures are applicable when the overall device length and width are $\geq 9 \text{ cm} \times 5 \text{ cm}$ respectively. A test separation of 10 mm is required. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25 mm from that surface or edge, for the data modes, wireless technologies and frequency bands supporting hotspot mode.
 - # For WLAN (15mm separation): the testing device support mobile hotspot function, the separation distance is **10mm (No need to perform SAR testing with**

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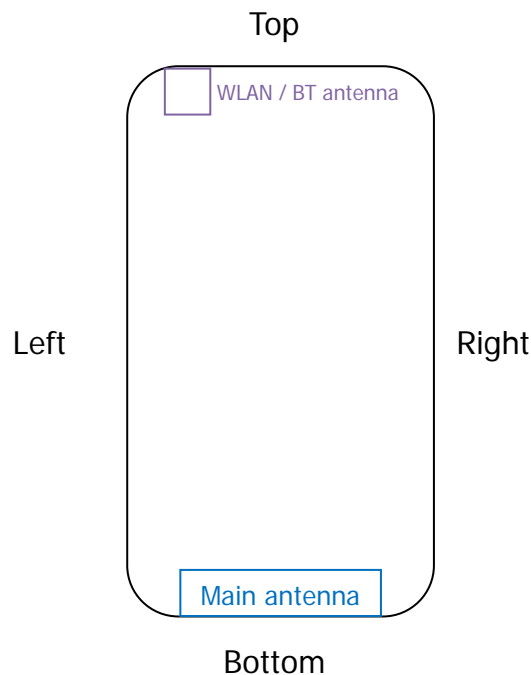
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Body worn accessory (15mm separation distance) due to the hotspot mode(10mm separation distance) is more conservative than Body worn accessory mode.).

Test configurations:

- (1) Front side
- (2) Back side
- (3) Top side.(WWAN antenna to edge distance >25mm_ No SAR measurement is necessary for this configuration)
- (4) Bottom side. (WLAN antenna to edge distance >25mm_ No SAR measurement is necessary for this configuration)
- (5) Right side. (WLAN antenna to edge distance >25mm_ No SAR measurement is necessary for this configuration)
- (6) Left side.



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7. **For FCC:** According to **KDB447498 D01v05** – The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, SAR evaluation is not required. **(Max power of Bluetooth = 9.5dBm)**

When SAR evaluation is not required to be measured, per FCC KDB447498 D01v05, the following equation must be used to estimate the 1g SAR for simultaneous transmission assessment involving that transmitter.

Estimated SAR = $[\sqrt{f(\text{GHz})} / 7.5] \cdot [(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})]$

| Mode | Frequency (MHz) | Maximum Power (dBm) | Separation Distance (Body) (mm) | Estimated SAR (Body) (W/kg) |
|-----------|-----------------|---------------------|---------------------------------|-----------------------------|
| Bluetooth | 2402 | 9.5 | 10 | 0.184 |

For IC: SAR evaluation is required if the separation distance between the user and the radiating element of the device is less than or equal to 20 cm, except when the device operates as follows:

- from 3 kHz up to 1 GHz inclusively, and with output power (i.e. the higher of the conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 200 mW for general public use and 1000 mW for controlled use;
- above 1 GHz and up to 2.2 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 100 mW for general public use and 500 mW for controlled use;
- above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use;
- above 3 GHz and up to 6 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output

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power) that is less than or equal to 10 mW for general public use and 50 mW for controlled use.

8. According to **KDB248227 D01v01**-SAR is not required for 802.11 g/HT20/HT40 channels when the maximum average output power is higher than that measured on the corresponding 802.11b channels but increase less than 1/4 dB.
9. Using **KDB941225 D01v02** to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

Additional configuration (Head):

10. For highest SAR configuration in this band repeated with external Memory card inside. (WCDMA Band II – Right cheek position – CH9538)

Additional configuration (Body):

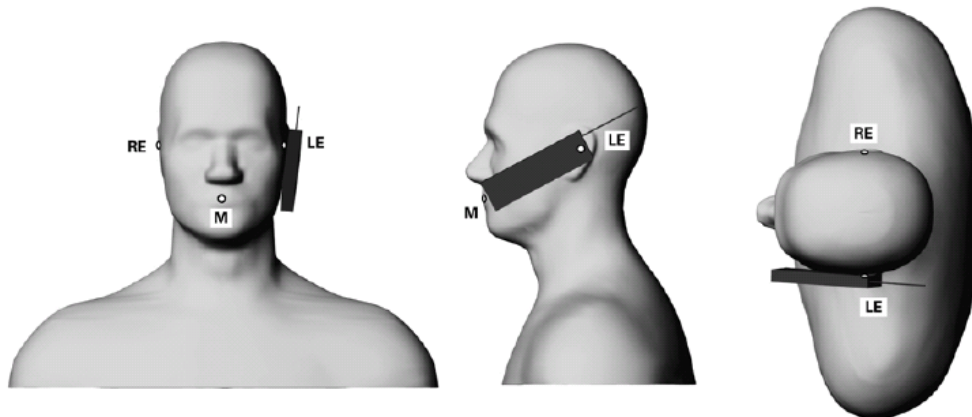
11. For highest SAR configuration in this band repeated with external Memory card inside. (GPRS1900_1Dn4Up – Front position – CH810)
12. For highest SAR configuration in this band repeated with Headset (MH410C). (GPRS1900_1Dn4Up – Front position – CH810)

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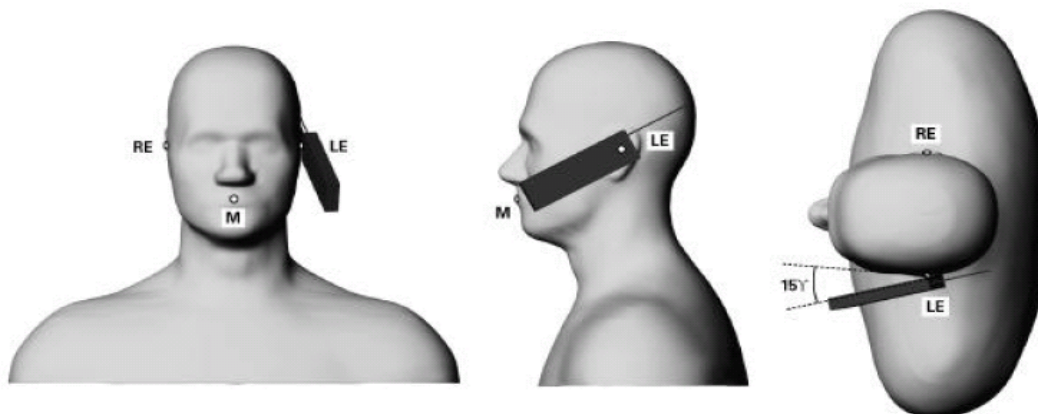
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1.6 Positioning Procedure



Phone position 1, "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.



Phone position 2, "tilted position." The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.

Cheek/Touch Position:

The handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.

Ear/Tilt Position:

With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees.

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1.7 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
3. The generation of a high-resolution mesh within the measured volume.
4. The interpolation of all measured values from the measurement grid to the high-resolution grid.
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface.
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for

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most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is then moved around until the highest averaged SAR is found.

If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

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1.8 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

1.8.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field (E) and the temperature gradient ($\delta T / \delta t$) in the liquid.

$$SAR = \frac{\sigma}{\rho} |E|^2 = c \frac{\delta T}{\delta t}$$

Whereby σ is the conductivity, ρ the density and c the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.

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- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures (~ 2% for c ; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed $\pm 5\%$.
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about $\pm 10\%$ (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is $\pm 5\%$ (RSS) when the same liquid is used for the calibration and for actual measurements and $\pm 7-9\%$ (RSS) when not, which is in good agreement with the estimates given in [2].

1.8.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- The setup must enable accurate determination of the incident power.

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- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

References

- [1] N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
- [2] K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, "Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954-1962, Oct. 1996.
- [3] K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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1.9 The SAR Measurement System

A block diagram of the SAR measurement system is given in Fig. a. This SAR measurement system uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). Model ES3DV3 and EX3DV4 field probes are used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

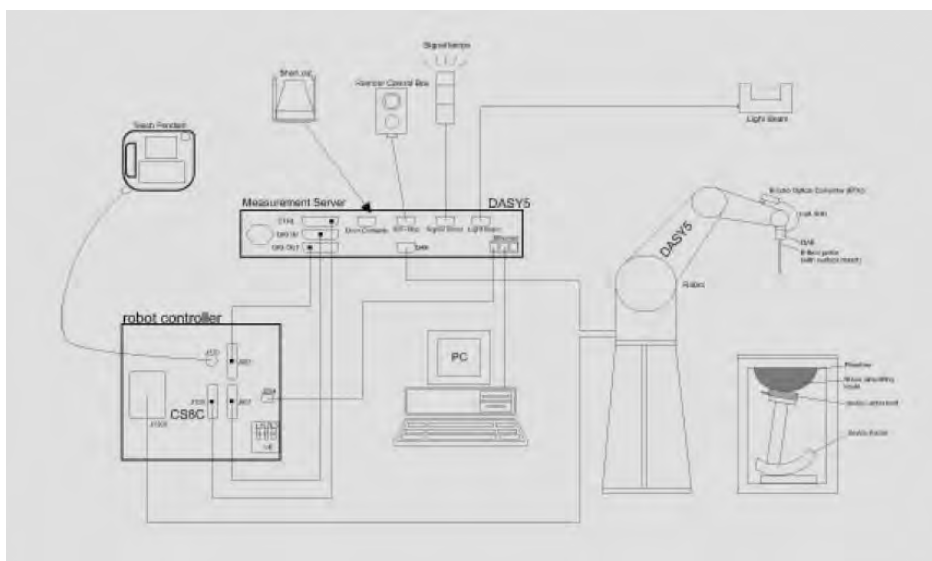


Fig. a A block diagram of the SAR measurement system

The DASY 5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- Data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

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- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating WindowsXP
- DASY 5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.


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1.10 System Components

ES3DV3 / EX3DV4 E-Field Probe

| | | |
|---------------|--|---|
| Construction | Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |  |
| Calibration | Basic Broad Band Calibration in air Conversion Factors (CF) for HSL835/1750/1900/2450/5200/5500/5800MHz Additional CF for other liquids and frequencies upon request | |
| Frequency | 10 MHz to > 4 GHz, Linearity: ± 0.2 dB (ES3DV3) 10 MHz to > 6 GHz, Linearity: ± 0.6 dB (EX3DV4) | |
| Directivity | ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis) | |
| Dynamic Range | 10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g) | |
| Dimensions | Tip diameter: 4 mm (ES3DV3) Tip diameter: 2.5 mm (EX3DV4) | |
| Application | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. | |

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SAM PHANTOM V4.0C

| | | |
|------------------|--|---|
| Construction: | <p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209.</p> <p>It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.</p> | |
| Shell Thickness: | 2 ± 0.2 mm |  |
| Filling Volume: | Approx. 25 liters | |
| Dimensions: | <p>Height: 210 mm;</p> <p>Length: 1000 mm;</p> <p>Width: 500 mm</p> | |

DEVICE HOLDER

| | | |
|--------------|--|--|
| Construction | <p>In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).</p> |  <p style="text-align: center;">Device Holder</p> |
|--------------|--|--|

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1.11 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% (according to KDB865664 D01) from the target SAR values.

These tests were done at 835/1750/1900/2450/5200/5500/5800 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1. During the tests, the ambient temperature of the laboratory was 21.7°C, the relative humidity was 62% and the liquid depth above the ear reference points was above 15 cm ($\leq 3G$) or 10 cm ($> 3G$) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

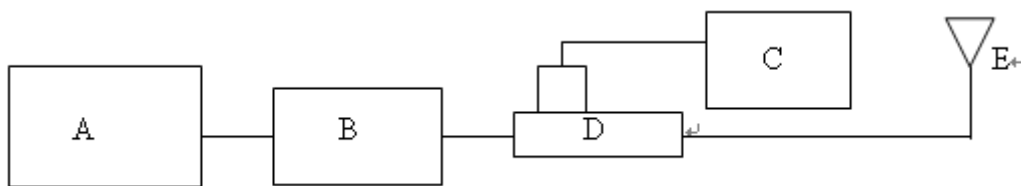
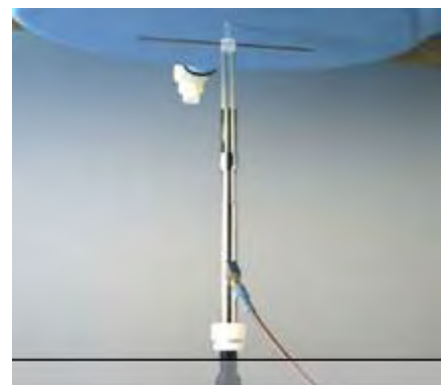


Fig. b The block diagram of system verification

- A. Signal Generator
- B. Amplifier
- C. Power Sensor
- D. Dual Directional Coupling
- E. Reference Dipole Antenna



Photograph of the Dipole Antenna

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| Validation Kit | S/N | Frequency (MHz) | | Target SAR (1g) (Pin=250mW) (mW/g) | Measured SAR (1g)(mW/g) | Deviation (%) | Measured Date |
|----------------|-------|-----------------|------|--|-------------------------|---------------|---------------|
| D835V2 | 4d063 | 835 | Head | 2.36 | 2.34 | 0.85% | May 04,2013 |
| | | | Body | 2.46 | 2.43 | 1.22% | |
| D1750V2 | 1008 | 1750 | Head | 8.76 | 8.47 | 3.31% | May 06,2013 |
| | | | Body | 9.03 | 9.25 | -2.44% | |
| D1900V2 | 5d018 | 1900 | Head | 9.88 | 9.84 | 0.40% | May 08,2013 |
| | | | Body | 10.2 | 10.1 | 0.98% | |
| D2450V2 | 869 | 2450 | Head | 13.8 | 13.2 | 4.35% | May 10,2013 |
| | | | Body | 13 | 12.4 | 4.62% | |
| D5GHzV2 | 1040 | 5200 | Head | 8.2 | 8.18 | 0.24% | May 12,2013 |
| | | | Body | 7.37 | 7.31 | 0.81% | May 17,2013 |
| D5GHzV2 | 1040 | 5500 | Head | 8.82 | 8.65 | 1.93% | May 15,2013 |
| | | | Body | 7.87 | 7.94 | -0.89% | May 18,2013 |
| D5GHzV2 | 1040 | 5800 | Head | 8.23 | 7.84 | 4.74% | May 20,2013 |
| | | | Body | 7.44 | 7.36 | 1.08% | |

Table 1. System validation (follow manufacture target value)

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1.12 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was at least 15 cm ($\leq 3G$) or 10 cm ($> 3G$) during all tests. (Appendix Fig. 2)

| Measured Frequency (MHz) | Tissue Type | Target Dielectric Constant, ϵ_r | Target Conductivity, σ (S/m) | Measured Dielectric Constant, ϵ_r | Measured Conductivity, σ (S/m) | % dev ϵ_r | % dev σ | Measurement Date |
|--------------------------|-------------|--|-------------------------------------|--|---------------------------------------|--------------------|----------------|------------------|
| 824.2 | Head | 41.556 | 0.899 | 41.62 | 0.88 | -0.15% | 2.13% | May 04, 2013 |
| 826.4 | | 41.545 | 0.899 | 41.596 | 0.883 | -0.12% | 1.82% | |
| 835 | | 41.5 | 0.9 | 41.49 | 0.891 | 0.02% | 1.00% | |
| 836.6 | | 41.500 | 0.902 | 41.466 | 0.894 | 0.08% | 0.86% | |
| 846.6 | | 41.500 | 0.912 | 41.345 | 0.904 | 0.37% | 0.93% | |
| 848.8 | | 41.500 | 0.915 | 41.321 | 0.906 | 0.43% | 0.97% | |
| 824.2 | Body | 55.242 | 0.969 | 56.444 | 0.974 | -2.18% | -0.50% | |
| 826.4 | | 55.234 | 0.969 | 56.43 | 0.976 | -2.17% | -0.69% | |
| 835 | | 55.2 | 0.97 | 56.373 | 0.985 | -2.12% | -1.55% | |
| 836.6 | | 55.195 | 0.972 | 56.36 | 0.987 | -2.11% | -1.55% | |
| 846.6 | | 55.164 | 0.984 | 56.29 | 0.997 | -2.04% | -1.29% | |
| 848.8 | | 55.158 | 0.987 | 56.275 | 0.999 | -2.03% | -1.22% | |
| 1712.4 | Head | 40.138 | 1.349 | 41.825 | 1.333 | -4.20% | 1.21% | May 06, 2013 |
| 1732.4 | | 40.107 | 1.361 | 41.774 | 1.35 | -4.16% | 0.80% | |
| 1750 | | 40.079 | 1.371 | 41.721 | 1.365 | -4.10% | 0.44% | |
| 1752.6 | | 40.075 | 1.373 | 41.71 | 1.367 | -4.08% | 0.40% | |
| 1712.4 | Body | 53.531 | 1.465 | 52.796 | 1.439 | 1.37% | 1.75% | |
| 1732.4 | | 53.478 | 1.477 | 52.753 | 1.46 | 1.36% | 1.17% | |
| 1750 | | 53.432 | 1.488 | 52.711 | 1.477 | 1.35% | 0.77% | |
| 1752.6 | | 53.425 | 1.490 | 52.702 | 1.48 | 1.35% | 0.68% | |

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| Measured Frequency (MHz) | Tissue Type | Target Dielectric Constant, ϵ_r | Target Conductivity, σ (S/m) | Measured Dielectric Constant, ϵ_r | Measured Conductivity, σ (S/m) | % dev ϵ_r | % dev σ | Measurement Date |
|--------------------------|-------------|--|-------------------------------------|--|---------------------------------------|--------------------|----------------|------------------|
| 1850.2 | Head | 40.000 | 1.400 | 41.227 | 1.334 | -3.07% | 4.71% | May 08, 2013 |
| 1852.4 | | 40.000 | 1.400 | 41.222 | 1.336 | -3.06% | 4.57% | |
| 1880 | | 40.000 | 1.400 | 41.162 | 1.361 | -2.91% | 2.79% | |
| 1900 | | 40.000 | 1.400 | 41.096 | 1.379 | -2.74% | 1.50% | |
| 1907.6 | | 40.000 | 1.400 | 41.068 | 1.387 | -2.67% | 0.93% | |
| 1909.8 | | 40.000 | 1.400 | 41.06 | 1.389 | -2.65% | 0.79% | |
| 1850.2 | Body | 53.300 | 1.520 | 51.516 | 1.478 | 3.35% | 2.76% | |
| 1852.4 | | 53.300 | 1.520 | 51.51 | 1.481 | 3.36% | 2.57% | |
| 1880 | | 53.300 | 1.520 | 51.425 | 1.51 | 3.52% | 0.66% | |
| 1900 | | 53.300 | 1.520 | 51.361 | 1.531 | 3.64% | -0.72% | |
| 1907.6 | | 53.300 | 1.520 | 51.337 | 1.54 | 3.68% | -1.32% | |
| 1909.8 | | 53.300 | 1.520 | 51.333 | 1.542 | 3.69% | -1.45% | |
| 2412 | Head | 39.268 | 1.766 | 39.077 | 1.758 | 0.49% | 0.47% | May 10, 2013 |
| 2437 | | 39.223 | 1.788 | 38.983 | 1.786 | 0.61% | 0.14% | |
| 2450 | | 39.2 | 1.8 | 38.954 | 1.803 | 0.63% | -0.17% | |
| 2462 | | 39.185 | 1.813 | 38.925 | 1.817 | 0.66% | -0.22% | |
| 2412 | Body | 52.751 | 1.914 | 54.466 | 1.89 | -3.25% | 1.24% | |
| 2437 | | 52.717 | 1.938 | 54.387 | 1.923 | -3.17% | 0.75% | |
| 2450 | | 52.7 | 1.95 | 54.364 | 1.942 | -3.16% | 0.41% | |
| 2462 | | 52.685 | 1.967 | 54.336 | 1.959 | -3.13% | 0.41% | |

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| Measured Frequency (MHz) | Tissue Type | Target Dielectric Constant, ϵ_r | Target Conductivity, σ (S/m) | Measured Dielectric Constant, ϵ_r | Measured Conductivity, σ (S/m) | % dev ϵ_r | % dev σ | Measurement Date |
|--------------------------|-------------|--|-------------------------------------|--|---------------------------------------|--------------------|----------------|------------------|
| 5180 | Head | 36.009 | 4.635 | 36.261 | 4.551 | -0.70% | 1.80% | May 12,2013 |
| 5190 | | 35.997 | 4.645 | 35.245 | 4.564 | 2.09% | 1.74% | |
| 5200 | | 35.986 | 4.655 | 36.224 | 4.577 | -0.66% | 1.68% | |
| 5220 | | 35.963 | 4.676 | 36.183 | 4.603 | -0.61% | 1.55% | |
| 5230 | | 35.951 | 4.686 | 36.163 | 4.616 | -0.59% | 1.49% | |
| 5240 | | 35.940 | 4.696 | 36.144 | 4.629 | -0.57% | 1.43% | |
| 5260 | | 35.917 | 4.717 | 36.107 | 4.656 | -0.53% | 1.28% | |
| 5270 | | 35.906 | 4.727 | 36.08 | 4.669 | -0.49% | 1.22% | |
| 5280 | | 35.894 | 4.737 | 36.068 | 4.682 | -0.48% | 1.16% | |
| 5300 | | 35.871 | 4.758 | 36.028 | 4.709 | -0.44% | 1.02% | |
| 5310 | | 35.860 | 4.768 | 36.011 | 4.722 | -0.42% | 0.96% | |
| 5320 | | 35.849 | 4.778 | 35.983 | 4.735 | -0.37% | 0.90% | |
| 5180 | | Body | 49.041 | 5.276 | 49.602 | 5.273 | -1.14% | |
| 5190 | 49.028 | | 5.288 | 49.578 | 5.288 | -1.12% | -0.01% | |
| 5200 | 49.014 | | 5.299 | 49.549 | 5.303 | -1.09% | -0.07% | |
| 5220 | 48.987 | | 5.323 | 49.516 | 5.337 | -1.08% | -0.27% | |
| 5230 | 48.974 | | 5.334 | 49.501 | 5.351 | -1.08% | -0.31% | |
| 5240 | 48.960 | | 5.346 | 49.48 | 5.363 | -1.06% | -0.32% | |
| 5260 | 48.933 | | 5.369 | 49.432 | 5.391 | -1.02% | -0.40% | |
| 5270 | 48.919 | | 5.381 | 49.414 | 5.404 | -1.01% | -0.43% | |
| 5280 | 48.906 | | 5.393 | 49.382 | 5.418 | -0.97% | -0.47% | |
| 5300 | 48.879 | | 5.416 | 49.321 | 5.443 | -0.91% | -0.50% | |
| 5310 | 48.865 | | 5.428 | 49.302 | 5.465 | -0.89% | -0.69% | |
| 5320 | 48.851 | | 5.439 | 48.28 | 5.477 | 1.17% | -0.69% | |

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| Measured Frequency (MHz) | Tissue Type | Target Dielectric Constant, ϵ_r | Target Conductivity, σ (S/m) | Measured Dielectric Constant, ϵ_r | Measured Conductivity, σ (S/m) | % dev ϵ_r | % dev σ | Measurement Date |
|--------------------------|-------------|--|-------------------------------------|--|---------------------------------------|--------------------|----------------|------------------|
| 5500 | Head | 35.643 | 4.963 | 35.612 | 4.978 | 0.09% | -0.31% | May 15,2013 |
| 5510 | | 35.631 | 4.973 | 35.598 | 4.992 | 0.09% | -0.39% | |
| 5580 | | 35.551 | 5.045 | 35.456 | 5.088 | 0.27% | -0.86% | |
| 5590 | | 35.540 | 5.055 | 35.438 | 5.101 | 0.29% | -0.91% | |
| 5620 | | 35.506 | 5.086 | 36.371 | 5.143 | -2.44% | -1.13% | |
| 5670 | | 35.449 | 5.137 | 35.263 | 5.212 | 0.52% | -1.46% | |
| 5700 | | 35.414 | 5.168 | 35.202 | 5.254 | 0.60% | -1.67% | |
| 5500 | Body | 48.607 | 5.650 | 48.911 | 5.734 | -0.63% | -1.49% | May 18,2013 |
| 5510 | | 48.594 | 5.661 | 48.881 | 5.746 | -0.59% | -1.50% | |
| 5580 | | 48.499 | 5.743 | 48.734 | 5.86 | -0.49% | -2.04% | |
| 5590 | | 48.485 | 5.755 | 48.72 | 5.874 | -0.48% | -2.07% | |
| 5620 | | 48.444 | 5.790 | 48.664 | 5.907 | -0.45% | -2.02% | |
| 5670 | | 48.376 | 5.848 | 48.541 | 5.991 | -0.34% | -2.44% | |
| 5700 | | 48.336 | 5.883 | 48.527 | 6.038 | -0.40% | -2.63% | |
| 5745 | Head | 35.363 | 5.214 | 35.122 | 5.317 | 0.68% | -1.98% | May 20,2013 |
| 5755 | | 35.351 | 5.224 | 35.09 | 5.331 | 0.74% | -2.05% | |
| 5785 | | 35.317 | 5.255 | 35.031 | 5.373 | 0.81% | -2.25% | |
| 5795 | | 35.306 | 5.265 | 35.014 | 5.387 | 0.83% | -2.32% | |
| 5800 | | 35.3 | 5.27 | 34.999 | 5.394 | 0.85% | -2.35% | |
| 5805 | | 35.294 | 5.275 | 34.992 | 5.401 | 0.86% | -2.39% | |
| 5825 | | 35.271 | 5.296 | 34.957 | 5.431 | 0.89% | -2.56% | |
| 5745 | Body | 48.275 | 5.936 | 48.419 | 6.087 | -0.30% | -2.55% | |
| 5755 | | 48.261 | 5.947 | 48.385 | 6.104 | -0.26% | -2.63% | |
| 5785 | | 48.220 | 5.982 | 48.331 | 6.167 | -0.23% | -3.08% | |
| 5795 | | 48.207 | 5.994 | 48.322 | 6.183 | -0.24% | -3.15% | |
| 5800 | | 48.2 | 6 | 48.322 | 6.19 | -0.25% | -3.17% | |
| 5805 | | 48.193 | 6.006 | 48.312 | 6.197 | -0.25% | -3.18% | |
| 5825 | | 48.166 | 6.029 | 48.294 | 6.221 | -0.27% | -3.18% | |

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid:

| Frequency (MHz) | Mode | Ingredient | | | | | | Total amount |
|-----------------|------|------------|----------|---------|---------------|-----------|-------|--------------|
| | | DGMBE | Water | Salt | Preventol D-7 | Cellulose | Sugar | |
| 850 | Head | — | 532.98 g | 18.3 g | 2.4 g | 3.2 g | 766 g | 1.0L(Kg) |
| | Body | — | 631.68 g | 11.72 g | 1.2 g | — | 600 g | 1.0L(Kg) |
| 1900 | Head | 444.52 g | 552.42 g | 3.06 g | — | — | — | 1.0L(Kg) |
| | Body | 300.67 g | 716.56 g | 4.0 g | — | — | — | 1.0L(Kg) |
| 2450 | Head | 550ml | 450ml | — | — | — | — | 1.0L(Kg) |
| | Body | 301.7ml | 698.3ml | — | — | — | — | 1.0L(Kg) |

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

| Ingredients | Water | Esters, Emulsifiers, Inhibitors | Sodium and Salt |
|---------------|-------|---------------------------------|-----------------|
| (% by weight) | 60-80 | 20-40 | 0-1.5 |

Table 3. Recipes for tissue simulating liquid

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1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter.

Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over a 10 grams of tissue (defined as a tissue volume in the shape of a cube).

Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

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(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube).

Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

| Human Exposure | Uncontrolled Environment General Population | Controlled Environment Occupational |
|--|--|--|
| Spatial Peak SAR (Brain) | 1.60 m W/g | 8.00 m W/g |
| Spatial Average SAR (Whole Body) | 0.08 m W/g | 0.40 m W/g |
| Spatial Peak SAR (Hands/Feet/Ankle/Wrist) | 4.00 m W/g | 20.00 m W/g |

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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2. Summary of Results

GSM 850 MHz

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|-----------------------------|-------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| GSM (Head) | RE Cheek | - | 128 | 824.2 | 33.5 | 33.3 | 4.71% | 0.385 | 0.403 | 80 |
| | RE Cheek | - | 190 | 836.6 | 33.5 | 33.3 | 4.71% | 0.408 | 0.427 | 81 |
| | RE Cheek | - | 251 | 848.8 | 33.5 | 33.3 | 4.71% | 0.412 | 0.431 | 82 |
| | RE Tilt | - | 190 | 836.6 | 33.5 | 33.3 | 4.71% | 0.293 | 0.307 | 83 |
| | LE Cheek | - | 190 | 836.6 | 33.5 | 33.3 | 4.71% | 0.407 | 0.426 | 84 |
| | LE Tilt | - | 190 | 836.6 | 33.5 | 33.3 | 4.71% | 0.329 | 0.345 | 85 |
| GSM (Body-worn speech mode) | Front | 15mm | 190 | 836.6 | 33.5 | 33.3 | 4.71% | 0.399 | 0.418 | 86 |
| | Back | 15mm | 190 | 836.6 | 33.5 | 33.3 | 4.71% | 0.439 | 0.460 | 87 |
| GPRS (Hotspot) (1Dn4UP) | Front side | 10mm | 190 | 836.6 | 28 | 27.9 | 2.33% | 0.528 | 0.540 | 88 |
| | Back side | 10mm | 128 | 824.2 | 28 | 28 | 0.00% | 0.709 | 0.709 | 89 |
| | Back side | 10mm | 190 | 836.6 | 28 | 27.9 | 2.33% | 0.786 | 0.804 | 90 |
| | Back side | 10mm | 251 | 848.8 | 28 | 27.9 | 2.33% | 0.873 | 0.893 | 91 |
| | Back side* | 10mm | 251 | 848.8 | 28 | 27.9 | 2.33% | 0.867 | 0.887 | 92 |
| | Bottom side | 10mm | 190 | 836.6 | 28 | 27.9 | 2.33% | 0.063 | 0.064 | 93 |
| | Right side | 10mm | 190 | 836.6 | 28 | 27.9 | 2.33% | 0.434 | 0.444 | 94 |
| | Left side | 10mm | 190 | 836.6 | 28 | 27.9 | 2.33% | 0.427 | 0.437 | 95 |

* - repeated at the highest SAR measurement according to the FCC KDB 865664

- # Using KDB941225 D03v01 and KDB941225 D04v01 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power for EDGE mode is lower than that in the GPRS mode.
- # According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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GSM 1900 MHz

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|-----------------------------|------------------------------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| GSM (Head) | RE Cheek | - | 512 | 1850.2 | 30.5 | 30.4 | 2.33% | 0.397 | 0.406 | 96 |
| | RE Cheek | - | 661 | 1880 | 30.5 | 30.3 | 4.71% | 0.463 | 0.485 | 97 |
| | RE Cheek | - | 810 | 1909.8 | 30.5 | 30.4 | 2.33% | 0.482 | 0.493 | 98 |
| | RE Tilt | - | 661 | 1880 | 30.5 | 30.3 | 4.71% | 0.115 | 0.120 | 99 |
| | LE Cheek | - | 661 | 1880 | 30.5 | 30.3 | 4.71% | 0.393 | 0.412 | 100 |
| | LE Tilt | - | 661 | 1880 | 30.5 | 30.3 | 4.71% | 0.127 | 0.133 | 101 |
| GSM (Body-worn speech mode) | Front side | 15mm | 661 | 1880 | 30.5 | 30.3 | 4.71% | 0.294 | 0.308 | 102 |
| | Back side | 15mm | 661 | 1880 | 30.5 | 30.3 | 4.71% | 0.342 | 0.358 | 103 |
| GPRS (Hotspot) (1Dn4UP) | Front side | 10mm | 512 | 1850.2 | 28 | 28 | 0.00% | 0.934 | 0.934 | 104 |
| | Front side | 10mm | 661 | 1880 | 28 | 27.8 | 4.71% | 0.977 | 1.023 | 105 |
| | Front side | 10mm | 810 | 1909.8 | 28 | 27.6 | 9.65% | 1.17 | 1.283 | 106 |
| | Front side -with Memory card | 10mm | 810 | 1909.8 | 28 | 27.6 | 9.65% | 1.16 | 1.272 | 107 |
| | Front side -with headset (MH410C) | 10mm | 810 | 1909.8 | 28 | 27.6 | 9.65% | 1.19 | 1.305 | 108 |
| | Front side -with headset (MH410C)* | 10mm | 810 | 1909.8 | 28 | 27.6 | 9.65% | 1.22 | 1.338 | 109 |
| | Back side | 10mm | 512 | 1850.2 | 28 | 28 | 0.00% | 0.97 | 0.970 | 111 |
| | Back side | 10mm | 661 | 1880 | 28 | 27.8 | 4.71% | 1.11 | 1.162 | 112 |
| | Back side | 10mm | 810 | 1909.8 | 28 | 27.6 | 9.65% | 1.1 | 1.206 | 113 |
| | Bottom side | 10mm | 512 | 1850.2 | 28 | 28 | 0.00% | 0.905 | 0.905 | 114 |
| | Bottom side | 10mm | 661 | 1880 | 28 | 27.8 | 4.71% | 1 | 1.047 | 115 |
| | Bottom side | 10mm | 810 | 1909.8 | 28 | 27.6 | 9.65% | 1.13 | 1.239 | 116 |
| | Right side | 10mm | 661 | 1880 | 28 | 27.8 | 4.71% | 0.292 | 0.306 | 117 |
| | Left side | 10mm | 661 | 1880 | 28 | 27.8 | 4.71% | 0.298 | 0.312 | 118 |

* - repeated at the highest SAR measurement according to the FCC KDB 865664

- # Using KDB941225 D03v01 and KDB941225 D04v01 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power for EDGE mode is lower than that in the GPRS mode.
- # According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WCDMA Band II

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|-----------------------|----------------------------|---------------|------|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| R99 (Head) | RE Cheek | - | 9262 | 1852.4 | 24.5 | 24.40 | 2.33% | 0.817 | 0.836 | 119 |
| | RE Cheek | - | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.863 | 0.863 | 120 |
| | RE Cheek | - | 9538 | 1907.6 | 24.5 | 24.09 | 9.90% | 0.991 | 1.089 | 121 |
| | RE Cheek* | - | 9538 | 1907.6 | 24.5 | 24.09 | 9.90% | 1.05 | 1.154 | 122 |
| | RE Cheek -with Memory card | - | 9538 | 1907.6 | 24.5 | 24.09 | 9.90% | 0.983 | 1.080 | 124 |
| | RE Tilt | - | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.207 | 0.207 | 125 |
| | LE Cheek | - | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.726 | 0.726 | 126 |
| | LE Tilt | - | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.228 | 0.228 | 127 |
| Body-worn speech mode | Front side | 15mm | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.583 | 0.583 | 128 |
| | Back side | 15mm | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.505 | 0.505 | 129 |
| Hotspot | Front side | 10mm | 9262 | 1852.4 | 24.5 | 24.40 | 2.33% | 0.902 | 0.923 | 130 |
| | Front side | 10mm | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.944 | 0.944 | 131 |
| | Front side | 10mm | 9538 | 1907.6 | 24.5 | 24.09 | 9.90% | 0.968 | 1.064 | 132 |
| | Back side | 10mm | 9262 | 1852.4 | 24.5 | 24.40 | 2.33% | 0.956 | 0.978 | 133 |
| | Back side | 10mm | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 1 | 1.000 | 134 |
| | Back side | 10mm | 9538 | 1907.6 | 24.5 | 24.09 | 9.90% | 1.02 | 1.121 | 135 |
| | Bottom side | 10mm | 9262 | 1852.4 | 24.5 | 24.40 | 2.33% | 0.9 | 0.921 | 136 |
| | Bottom side | 10mm | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.967 | 0.967 | 137 |
| | Bottom side | 10mm | 9538 | 1907.6 | 24.5 | 24.09 | 9.90% | 1.07 | 1.176 | 138 |
| | Bottom side* | 10mm | 9538 | 1907.6 | 24.5 | 24.09 | 9.90% | 1.07 | 1.176 | 139 |
| | Right side | 10mm | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.284 | 0.284 | 140 |
| | Left side | 10mm | 9400 | 1880 | 24.5 | 24.50 | 0.00% | 0.256 | 0.256 | 141 |

* - repeated at the highest SAR measurement according to the FCC KDB 865664

Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WCDMA Band IV

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|-----------------------|-------------|---------------|------|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| R99 (Head) | RE Cheek | - | 1312 | 1712.4 | 24.5 | 24.29 | 4.95% | 0.899 | 0.944 | 142 |
| | RE Cheek | - | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.948 | 0.993 | 143 |
| | RE Cheek* | - | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.937 | 0.981 | 144 |
| | RE Cheek | - | 1513 | 1752.6 | 24.5 | 24.48 | 0.46% | 0.847 | 0.851 | 145 |
| | RE Tilt | - | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.27 | 0.283 | 146 |
| | LE Cheek | - | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.743 | 0.778 | 147 |
| | LE Tilt | - | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.266 | 0.279 | 148 |
| Body-worn speech mode | Front side | 15mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.521 | 0.546 | 149 |
| | Back side | 15mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.493 | 0.516 | 150 |
| Hotspot | Front side | 10mm | 1312 | 1712.4 | 24.5 | 24.29 | 4.95% | 1 | 1.050 | 151 |
| | Front side | 10mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 1.01 | 1.058 | 152 |
| | Front side* | 10mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.948 | 0.993 | 153 |
| | Front side | 10mm | 1513 | 1752.6 | 24.5 | 24.48 | 0.46% | 0.932 | 0.936 | 154 |
| | Back side | 10mm | 1312 | 1712.4 | 24.5 | 24.29 | 4.95% | 0.909 | 0.954 | 155 |
| | Back side | 10mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.891 | 0.933 | 156 |
| | Back side | 10mm | 1513 | 1752.6 | 24.5 | 24.48 | 0.46% | 0.887 | 0.891 | 157 |
| | Bottom side | 10mm | 1312 | 1712.4 | 24.5 | 24.29 | 4.95% | 0.847 | 0.889 | 158 |
| | Bottom side | 10mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.939 | 0.983 | 159 |
| | Bottom side | 10mm | 1513 | 1752.6 | 24.5 | 24.48 | 0.46% | 0.913 | 0.917 | 160 |
| | Right side | 10mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.23 | 0.241 | 161 |
| | Left side | 10mm | 1412 | 1732.4 | 24.5 | 24.30 | 4.71% | 0.276 | 0.289 | 162 |

* - repeated at the highest SAR measurement according to the FCC KDB 865664

Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WCDMA Band V

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|-----------------------|-------------|---------------|------|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| R99 (Head) | RE Cheek | - | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.344 | 0.349 | 163 |
| | RE Tilt | - | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.242 | 0.245 | 164 |
| | LE Cheek | - | 4132 | 826.4 | 24.5 | 24.47 | 0.69% | 0.38 | 0.383 | 165 |
| | LE Cheek | - | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.345 | 0.350 | 166 |
| | LE Cheek | - | 4233 | 846.6 | 24.5 | 24.40 | 2.33% | 0.519 | 0.531 | 167 |
| | LE Tilt | - | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.261 | 0.265 | 168 |
| Body-worn speech mode | Front side | 15mm | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.227 | 0.230 | 169 |
| | Back side | 15mm | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.293 | 0.297 | 170 |
| Hotspot | Front side | 10mm | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.476 | 0.483 | 171 |
| | Back side | 10mm | 4132 | 826.4 | 24.5 | 24.47 | 0.69% | 0.747 | 0.752 | 172 |
| | Back side | 10mm | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.649 | 0.658 | 173 |
| | Back side | 10mm | 4233 | 846.6 | 24.5 | 24.40 | 2.33% | 0.91 | 0.931 | 174 |
| | Back side* | 10mm | 4233 | 846.6 | 24.5 | 24.40 | 2.33% | 0.905 | 0.926 | 175 |
| | Bottom side | 10mm | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.055 | 0.056 | 176 |
| | Right side | 10mm | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.434 | 0.440 | 177 |
| | Left side | 10mm | 4183 | 836.6 | 24.5 | 24.44 | 1.39% | 0.403 | 0.409 | 178 |

* - repeated at the highest SAR measurement according to the FCC KDB 865664

- # Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.
- # According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 b

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|----------------------------|---------------|----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 1 | 2412 | 15 | 14.96 | 0.93% | 0.644 | 0.650 | 179 |
| | RE Cheek | - | 6 | 2437 | 15 | 14.99 | 0.23% | 0.569 | 0.570 | 180 |
| | RE Cheek | - | 11 | 2462 | 15 | 14.95 | 1.16% | 0.63 | 0.637 | 181 |
| | RE Cheek -with Memory card | - | 1 | 2412 | 15 | 14.96 | 0.93% | 0.625 | 0.631 | 182 |
| | RE Tilt | - | 6 | 2437 | 15 | 14.99 | 0.23% | 0.452 | 0.453 | 183 |
| | LE Cheek | 10mm | 6 | 2437 | 15 | 14.99 | 0.23% | 0.298 | 0.299 | 184 |
| | LE Tilt | 10mm | 6 | 2437 | 15 | 14.99 | 0.23% | 0.275 | 0.276 | 185 |
| Hotspot | Front side | 10mm | 6 | 2437 | 15 | 14.99 | 0.23% | 0.128 | 0.128 | 186 |
| | Back side | 10mm | 1 | 2412 | 15 | 14.96 | 0.93% | 0.148 | 0.149 | 187 |
| | Back side | 10mm | 6 | 2437 | 15 | 14.99 | 0.23% | 0.148 | 0.148 | 188 |
| | Back side | 10mm | 11 | 2462 | 15 | 14.95 | 1.16% | 0.179 | 0.181 | 189 |
| | Top side | 10mm | 6 | 2437 | 15 | 14.99 | 0.23% | 0.103 | 0.103 | 190 |
| | Left side | 10mm | 6 | 2437 | 15 | 14.99 | 0.23% | 0.089 | 0.089 | 191 |

Using KDB248227 D01v01-SAR is not required for 802.11 g/HT20 channels when the maximum average output power is higher than that measured on the corresponding 802.11b channels but increase less than 1/4 dB.

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 a 5.2G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 36 | 5180 | 13 | 12.95 | 1.16% | 0.268 | 0.271 | 192 |
| | RE Cheek | - | 44 | 5220 | 13 | 12.86 | 3.28% | 0.266 | 0.275 | 193 |
| | RE Tilt | - | 36 | 5180 | 13 | 12.95 | 1.16% | 0.262 | 0.265 | 194 |
| | LE Cheek | - | 36 | 5180 | 13 | 12.95 | 1.16% | 0.183 | 0.185 | 195 |
| | LE Tilt | - | 36 | 5180 | 13 | 12.95 | 1.16% | 0.231 | 0.234 | 196 |
| Hotspot | Front side | 10mm | 36 | 5180 | 13 | 12.95 | 1.16% | 0.033 | 0.033 | 197 |
| | Back side | 10mm | 36 | 5180 | 13 | 12.95 | 1.16% | 0.101 | 0.102 | 198 |
| | Top side | 10mm | 36 | 5180 | 13 | 12.95 | 1.16% | 0.136 | 0.138 | 199 |
| | Top side | 10mm | 44 | 5220 | 13 | 12.86 | 3.28% | 0.143 | 0.148 | 200 |
| | Left side | 10mm | 36 | 5180 | 13 | 12.95 | 1.16% | 0.046 | 0.047 | 201 |

As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.

As per KDB248227 D01v01, when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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WLAN802.11 n (20M) 5.2G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 36 | 5180 | 13 | 12.96 | 0.93% | 0.244 | 0.246 | 202 |
| | RE Tilt | - | 36 | 5180 | 13 | 12.96 | 0.93% | 0.289 | 0.292 | 203 |
| | RE Tilt | - | 48 | 5240 | 13 | 12.95 | 1.16% | 0.384 | 0.388 | 204 |
| | LE Cheek | - | 36 | 5180 | 13 | 12.96 | 0.93% | 0.221 | 0.223 | 205 |
| | LE Tilt | - | 36 | 5180 | 13 | 12.96 | 0.93% | 0.28 | 0.283 | 206 |
| Hotspot | Front side | 10mm | 36 | 5180 | 13 | 12.96 | 0.93% | 0.02 | 0.020 | 207 |
| | Back side | 10mm | 36 | 5180 | 13 | 12.96 | 0.93% | 0.071 | 0.072 | 208 |
| | Top side | 10mm | 36 | 5180 | 13 | 12.96 | 0.93% | 0.095 | 0.096 | 209 |
| | Top side | 10mm | 48 | 5240 | 13 | 12.95 | 1.16% | 0.152 | 0.154 | 210 |
| | Left side | 10mm | 36 | 5180 | 13 | 12.96 | 0.93% | 0.032 | 0.032 | 211 |

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 n (40M) 5.2G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 38 | 5190 | 12 | 11.88 | 2.80% | 0.189 | 0.194 | 212 |
| | RE Tilt | - | 38 | 5190 | 12 | 11.88 | 2.80% | 0.24 | 0.247 | 213 |
| | RE Tilt | - | 46 | 5230 | 12 | 11.85 | 3.51% | 0.273 | 0.283 | 214 |
| | LE Cheek | - | 38 | 5190 | 12 | 11.88 | 2.80% | 0.162 | 0.167 | 215 |
| | LE Tilt | - | 38 | 5190 | 12 | 11.88 | 2.80% | 0.215 | 0.221 | 216 |
| Hotspot | Front side | 10mm | 38 | 5190 | 12 | 11.88 | 2.80% | 0.023 | 0.024 | 217 |
| | Back side | 10mm | 38 | 5190 | 12 | 11.88 | 2.80% | 0.059 | 0.061 | 218 |
| | Top side | 10mm | 38 | 5190 | 12 | 11.88 | 2.80% | 0.084 | 0.086 | 219 |
| | Top side | 10mm | 46 | 5230 | 12 | 11.85 | 3.51% | 0.105 | 0.109 | 220 |
| | Left side | 10mm | 38 | 5190 | 12 | 11.88 | 2.80% | 0.033 | 0.034 | 221 |

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 a 5.3G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 56 | 5280 | 13 | 12.88 | 2.80% | 0.396 | 0.407 | 222 |
| | RE Tilt | - | 56 | 5280 | 13 | 12.88 | 2.80% | 0.465 | 0.478 | 223 |
| | RE Tilt | - | 60 | 5300 | 13 | 12.85 | 3.51% | 0.563 | 0.583 | 224 |
| | LE Cheek | - | 56 | 5280 | 13 | 12.88 | 2.80% | 0.348 | 0.358 | 225 |
| | LE Tilt | - | 56 | 5280 | 13 | 12.88 | 2.80% | 0.435 | 0.447 | 226 |
| Hotspot | Front side | 10mm | 56 | 5280 | 13 | 12.88 | 2.80% | 0.037 | 0.038 | 227 |
| | Back side | 10mm | 56 | 5280 | 13 | 12.88 | 2.80% | 0.169 | 0.174 | 228 |
| | Top side | 10mm | 56 | 5280 | 13 | 12.88 | 2.80% | 0.177 | 0.182 | 229 |
| | Top side | 10mm | 60 | 5300 | 13 | 12.85 | 3.51% | 0.208 | 0.215 | 230 |
| | Left side | 10mm | 56 | 5280 | 13 | 12.88 | 2.80% | 0.082 | 0.084 | 231 |

As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.

As per KDB248227 D01v01, when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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WLAN802.11 n (20M) 5.3G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 52 | 5260 | 13 | 12.94 | 1.39% | 0.344 | 0.349 | 232 |
| | RE Tilt | - | 52 | 5260 | 13 | 12.94 | 1.39% | 0.409 | 0.415 | 233 |
| | RE Tilt | - | 64 | 5320 | 13 | 12.9 | 2.33% | 0.524 | 0.536 | 234 |
| | LE Cheek | - | 52 | 5260 | 13 | 12.94 | 1.39% | 0.312 | 0.316 | 235 |
| | LE Tilt | - | 52 | 5260 | 13 | 12.94 | 1.39% | 0.372 | 0.377 | 236 |
| Hotspot | Front side | 10mm | 52 | 5260 | 13 | 12.94 | 1.39% | 0.032 | 0.032 | 237 |
| | Back side | 10mm | 52 | 5260 | 13 | 12.94 | 1.39% | 0.137 | 0.139 | 238 |
| | Top side | 10mm | 52 | 5260 | 13 | 12.94 | 1.39% | 0.151 | 0.153 | 239 |
| | Top side | 10mm | 64 | 5320 | 13 | 12.9 | 2.33% | 0.207 | 0.212 | 240 |
| | Left side | 10mm | 52 | 5260 | 13 | 12.94 | 1.39% | 0.051 | 0.052 | 241 |

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 n (40M) 5.3G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 54 | 5270 | 12 | 11.94 | 1.39% | 0.28 | 0.284 | 242 |
| | RE Tilt | - | 54 | 5270 | 12 | 11.94 | 1.39% | 0.331 | 0.336 | 243 |
| | RE Tilt | - | 62 | 5310 | 12 | 11.91 | 2.09% | 0.342 | 0.349 | 244 |
| | LE Cheek | - | 54 | 5270 | 12 | 11.94 | 1.39% | 0.248 | 0.251 | 245 |
| | LE Tilt | - | 54 | 5270 | 12 | 11.94 | 1.39% | 0.291 | 0.295 | 246 |
| Hotspot | Front side | 10mm | 54 | 5270 | 12 | 11.94 | 1.39% | 0.034 | 0.034 | 247 |
| | Back side | 10mm | 54 | 5270 | 12 | 11.94 | 1.39% | 0.112 | 0.114 | 248 |
| | Top side | 10mm | 54 | 5270 | 12 | 11.94 | 1.39% | 0.13 | 0.132 | 249 |
| | Top side | 10mm | 62 | 5310 | 12 | 11.91 | 2.09% | 0.145 | 0.148 | 250 |
| | Left side | 10mm | 54 | 5270 | 12 | 11.94 | 1.39% | 0.048 | 0.049 | 251 |

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 a 5.5G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|-----------------------------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 100 | 5500 | 13 | 12.89 | 2.57% | 0.429 | 0.440 | 252 |
| | RE Cheek | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.407 | 0.410 | 253 |
| | RE Cheek | - | 124 | 5620 | 13 | 12.94 | 1.39% | 0.585 | 0.593 | 254 |
| | RE Cheek | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.461 | 0.465 | 255 |
| | RE Tilt | - | 100 | 5500 | 13 | 12.89 | 2.57% | 0.503 | 0.516 | 256 |
| | RE Tilt | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.466 | 0.469 | 257 |
| | RE Tilt | - | 124 | 5620 | 13 | 12.94 | 1.39% | 0.532 | 0.539 | 258 |
| | RE Tilt | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.492 | 0.497 | 259 |
| | LE Cheek | - | 100 | 5500 | 13 | 12.89 | 2.57% | 0.42 | 0.431 | 260 |
| | LE Cheek | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.508 | 0.512 | 261 |
| | LE Cheek | - | 124 | 5620 | 13 | 12.94 | 1.39% | 0.577 | 0.585 | 262 |
| | LE Cheek | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.496 | 0.501 | 263 |
| | LE Tilt | - | 100 | 5500 | 13 | 12.89 | 2.57% | 0.494 | 0.507 | 264 |
| | LE Tilt | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.496 | 0.499 | 265 |
| | LE Tilt | - | 124 | 5620 | 13 | 12.94 | 1.39% | 0.607 | 0.615 | 266 |
| | LE Tilt | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.44 | 0.444 | 267 |
| Hotspot | Front side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.047 | 0.047 | 268 |
| | Back side | 10mm | 100 | 5500 | 13 | 12.89 | 2.57% | 0.261 | 0.268 | 269 |
| | Back side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.311 | 0.313 | 270 |
| | Back side | 10mm | 124 | 5620 | 13 | 12.94 | 1.39% | 0.258 | 0.262 | 271 |
| | Back side | 10mm | 140 | 5700 | 13 | 12.96 | 0.93% | 0.174 | 0.176 | 272 |
| | Back side - with Memory card | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.176 | 0.177 | 273 |
| | Back side - with headset (MH410C) | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.205 | 0.206 | 274 |
| | Top side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.173 | 0.174 | 275 |
| | Left side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.102 | 0.103 | 276 |

As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.4W/kg, SAR tests on other default channel is option.

As per KDB248227 D01v01, when the maximum average output channel in each

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frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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WLAN802.11 n (20M) 5.5G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 100 | 5500 | 13 | 12.91 | 2.09% | 0.516 | 0.527 | 277 |
| | RE Cheek | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.5 | 0.503 | 278 |
| | RE Cheek | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.432 | 0.436 | 279 |
| | RE Tilt | - | 100 | 5500 | 13 | 12.91 | 2.09% | 0.614 | 0.627 | 280 |
| | RE Tilt | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.576 | 0.580 | 281 |
| | RE Tilt | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.459 | 0.463 | 282 |
| | LE Cheek | - | 100 | 5500 | 13 | 12.91 | 2.09% | 0.544 | 0.555 | 283 |
| | LE Cheek | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.547 | 0.551 | 284 |
| | LE Cheek | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.479 | 0.483 | 285 |
| | LE Tilt | - | 100 | 5500 | 13 | 12.91 | 2.09% | 0.535 | 0.546 | 286 |
| | LE Tilt | - | 116 | 5580 | 13 | 12.97 | 0.69% | 0.595 | 0.599 | 287 |
| | LE Tilt | - | 140 | 5700 | 13 | 12.96 | 0.93% | 0.38 | 0.384 | 288 |
| Hotspot | Front side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.031 | 0.031 | 289 |
| | Back side | 10mm | 100 | 5500 | 13 | 12.91 | 2.09% | 0.29 | 0.296 | 290 |
| | Back side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.203 | 0.204 | 291 |
| | Back side | 10mm | 140 | 5700 | 13 | 12.96 | 0.93% | 0.112 | 0.113 | 292 |
| | Top side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.178 | 0.179 | 293 |
| | Left side | 10mm | 116 | 5580 | 13 | 12.97 | 0.69% | 0.093 | 0.094 | 294 |

As per KDB447498 D01v05, while the 1g/SAR at the channel of highest output power is less than 0.4 W/kg, where the transmission band corresponding to all channels is ≤ 200 MHz, testing for the other channels is not required

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WLAN802.11 n (40M) 5.5G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 118 | 5590 | 12 | 11.97 | 0.69% | 0.393 | 0.396 | 295 |
| | RE Tilt | - | 102 | 5510 | 12 | 11.79 | 4.95% | 0.457 | 0.480 | 296 |
| | RE Tilt | - | 118 | 5590 | 12 | 11.97 | 0.69% | 0.465 | 0.468 | 297 |
| | RE Tilt | - | 134 | 5670 | 12 | 11.92 | 1.86% | 0.46 | 0.469 | 298 |
| | LE Cheek | - | 102 | 5510 | 12 | 11.79 | 4.95% | 0.401 | 0.421 | 299 |
| | LE Cheek | - | 118 | 5590 | 12 | 11.97 | 0.69% | 0.418 | 0.421 | 300 |
| | LE Cheek | 10mm | 134 | 5670 | 12 | 11.92 | 1.86% | 0.462 | 0.471 | 301 |
| | LE Tilt | 10mm | 102 | 5510 | 12 | 11.79 | 4.95% | 0.474 | 0.497 | 302 |
| | LE Tilt | 10mm | 118 | 5590 | 12 | 11.97 | 0.69% | 0.458 | 0.461 | 303 |
| | LE Tilt | 10mm | 134 | 5670 | 12 | 11.92 | 1.86% | 0.491 | 0.500 | 304 |
| Hotspot | Front side | 10mm | 118 | 5590 | 12 | 11.97 | 0.69% | 0.058 | 0.058 | 305 |
| | Back side | 10mm | 102 | 5510 | 12 | 11.79 | 4.95% | 0.161 | 0.169 | 306 |
| | Back side | 10mm | 118 | 5590 | 12 | 11.97 | 0.69% | 0.184 | 0.185 | 307 |
| | Back side | 10mm | 134 | 5670 | 12 | 11.92 | 1.86% | 0.153 | 0.156 | 308 |
| | Top side | 10mm | 118 | 5590 | 12 | 11.97 | 0.69% | 0.163 | 0.164 | 309 |
| | Left side | 10mm | 118 | 5590 | 12 | 11.97 | 0.69% | 0.085 | 0.086 | 310 |

As per KDB447498 D01v05, while the 1g/SAR at the channel of highest output power is less than 0.4 W/kg, where the transmission band corresponding to all channels is ≤ 200 MHz, testing for the other channels is not required

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WLAN802.11 a 5.8G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 149 | 5745 | 13 | 12.96 | 0.93% | 0.238 | 0.240 | 311 |
| | RE Tilt | - | 149 | 5745 | 13 | 12.96 | 0.93% | 0.272 | 0.275 | 312 |
| | LE Cheek | - | 149 | 5745 | 13 | 12.96 | 0.93% | 0.255 | 0.257 | 313 |
| | LE Tilt | - | 149 | 5745 | 13 | 12.96 | 0.93% | 0.322 | 0.325 | 314 |
| | LE Tilt | - | 157 | 5785 | 13 | 12.85 | 3.51% | 0.312 | 0.323 | 315 |
| | LE Tilt | - | 161 | 5805 | 13 | 12.87 | 3.04% | 0.301 | 0.310 | 316 |
| Hotspot | Front side | 10mm | 149 | 5745 | 13 | 12.96 | 0.93% | 0.05 | 0.050 | 317 |
| | Back side | 10mm | 149 | 5745 | 13 | 12.96 | 0.93% | 0.11 | 0.111 | 318 |
| | Back side | 10mm | 157 | 5785 | 13 | 12.85 | 3.51% | 0.096 | 0.099 | 319 |
| | Back side | 10mm | 161 | 5805 | 13 | 12.87 | 3.04% | 0.074 | 0.076 | 320 |
| | Top side | 10mm | 149 | 5745 | 13 | 12.96 | 0.93% | 0.047 | 0.047 | 321 |
| | Left side | 10mm | 149 | 5745 | 13 | 12.96 | 0.93% | 0.053 | 0.053 | 322 |

- # As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.
- # As per KDB248227 D01v01, when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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WLAN802.11 n (20M) 5.8G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 149 | 5745 | 13 | 12.97 | 0.69% | 0.278 | 0.280 | 323 |
| | RE Tilt | - | 149 | 5745 | 13 | 12.97 | 0.69% | 0.28 | 0.282 | 324 |
| | LE Cheek | - | 149 | 5745 | 13 | 12.97 | 0.69% | 0.286 | 0.288 | 325 |
| | LE Tilt | - | 149 | 5745 | 13 | 12.97 | 0.69% | 0.324 | 0.326 | 326 |
| | LE Tilt | - | 157 | 5785 | 13 | 12.96 | 0.93% | 0.362 | 0.365 | 327 |
| | LE Tilt | - | 165 | 5825 | 13 | 12.93 | 1.62% | 0.311 | 0.316 | 328 |
| Hotspot | Front side | 10mm | 149 | 5745 | 13 | 12.97 | 0.69% | 0.031 | 0.031 | 329 |
| | Back side | 10mm | 149 | 5745 | 13 | 12.97 | 0.69% | 0.111 | 0.112 | 330 |
| | Back side | 10mm | 157 | 5785 | 13 | 12.96 | 0.93% | 0.108 | 0.109 | 331 |
| | Back side | 10mm | 165 | 5825 | 13 | 12.93 | 1.62% | 0.084 | 0.085 | 332 |
| | Top side | 10mm | 149 | 5745 | 13 | 12.97 | 0.69% | 0.07 | 0.070 | 333 |
| | Left side | 10mm | 149 | 5745 | 13 | 12.97 | 0.69% | 0.047 | 0.047 | 334 |

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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WLAN802.11 n (40M) 5.8G

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | Measured | Reported | |
| Head | RE Cheek | - | 159 | 5795 | 12 | 11.96 | 0.93% | 0.233 | 0.235 | 335 |
| | RE Tilt | - | 159 | 5795 | 12 | 11.96 | 0.93% | 0.27 | 0.272 | 336 |
| | LE Cheek | - | 159 | 5795 | 12 | 11.96 | 0.93% | 0.272 | 0.275 | 337 |
| | LE Tilt | - | 151 | 5755 | 12 | 11.95 | 1.16% | 0.368 | 0.372 | 338 |
| | LE Tilt | - | 159 | 5795 | 12 | 11.96 | 0.93% | 0.331 | 0.334 | 339 |
| Hotspot | Front side | - | 159 | 5795 | 12 | 11.96 | 0.93% | 0.026 | 0.026 | 340 |
| | Back side | 10mm | 151 | 5755 | 12 | 11.95 | 1.16% | 0.09 | 0.091 | 341 |
| | Back side | 10mm | 159 | 5795 | 12 | 11.96 | 0.93% | 0.072 | 0.073 | 342 |
| | Top side | 10mm | 159 | 5795 | 12 | 11.96 | 0.93% | 0.037 | 0.037 | 343 |
| | Left side | 10mm | 159 | 5795 | 12 | 11.96 | 0.93% | 0.031 | 0.031 | 344 |

According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

| Simultaneous Transmit Configurations | Head | Hot Spot |
|---------------------------------------|------|----------|
| GSM850/1900 Voice + 2.4GHz Wi-Fi | Yes | No |
| UMTS B2/B4/B5 Voice + 2.4GHz Wi-Fi | Yes | No |
| GSM850/1900 Voice + 5GHz Wi-Fi | Yes | No |
| UMTS B2/B4/B5 Voice + 5GHz Wi-Fi | Yes | No |
| GPRS850/1900 Data + 2.4GHz Wi-Fi | No | Yes |
| UMTS B2/B4/B5 Data + 2.4GHz Wi-Fi | No | Yes |
| GPRS850/1900 Data + 5GHz Wi-Fi | No | Yes |
| UMTS B2/B4/B5 Data + 5GHz Wi-Fi | No | Yes |
| GSM850/1900 Data + 2.4GHz Bluetooth | No | Yes |
| UMTS B2/B4/B5 Data + 2.4GHz Bluetooth | No | Yes |

Notes:

1. GSM & WCDMA share the same antenna path and cannot transmit simultaneously
2. Bluetooth, 5GHz WiFi, and 2.4GHz WiFi share the same antenna path and cannot transmit simultaneously

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Simultaneous Transmission Combination

| reported SAR WWAN and WLAN DTS 2.4GHz, Σ SAR evaluation | | | | | | | |
|--|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| GSM 850 | Head | Right cheek | 0.431 | 0.650 | 1.081 | - | - |
| | | Right tilt | 0.307 | 0.453 | 0.760 | - | - |
| | | Left cheek | 0.426 | 0.299 | 0.725 | - | - |
| | | Left tilt | 0.345 | 0.276 | 0.621 | - | - |
| GPRS 850 (1Dn4UP) | Hotspot | Front | 0.54 | 0.128 | 0.668 | - | - |
| | | Back | 0.893 | 0.181 | 1.074 | - | - |
| | | Top | - | 0.103 | - | - | - |
| | | Bottom | 0.064 | - | - | - | - |
| | | Right | 0.444 | - | - | - | - |
| | | Left | 0.437 | 0.089 | 0.526 | - | - |
| GSM 1900 | Head | Right cheek | 0.493 | 0.650 | 1.143 | - | - |
| | | Right tilt | 0.12 | 0.453 | 0.573 | - | - |
| | | Left cheek | 0.412 | 0.299 | 0.711 | - | - |
| | | Left tilt | 0.133 | 0.276 | 0.409 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Front | 1.338 | 0.128 | 1.466 | - | - |
| | | Back | 1.206 | 0.181 | 1.387 | - | - |
| | | Top | - | 0.103 | - | - | - |
| | | Bottom | 1.239 | - | - | - | - |
| | | Right | 0.306 | - | - | - | - |
| | | Left | 0.312 | 0.089 | 0.401 | - | - |

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| reported SAR WWAN and WLAN DTS 2.4GHz, Σ SAR evaluation | | | | | | | |
|--|---------------|-------------|---------------------|-------|--------------------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR <1.6W/kg | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | | | |
| WCDMA Band II | Head | Right cheek | 1.154 | 0.650 | 1.804 | 84.4 | 0.029 |
| | | Right tilt | 0.207 | 0.453 | 0.660 | - | - |
| | | Left cheek | 0.726 | 0.299 | 1.025 | - | - |
| | | Left tilt | 0.228 | 0.276 | 0.504 | - | - |
| | Hotspot | Front | 1.064 | 0.128 | 1.192 | - | - |
| | | Back | 1.121 | 0.181 | 1.302 | - | - |
| | | Top | - | 0.103 | - | - | - |
| | | Bottom | 1.176 | - | - | - | - |
| | | Right | 0.284 | - | - | - | - |
| | | Left | 0.256 | 0.089 | 0.345 | - | - |
| | WCDMA Band IV | Head | Right cheek | 0.993 | 0.650 | 1.643 | 82.3 |
| Right tilt | | | 0.283 | 0.453 | 0.736 | - | - |
| Left cheek | | | 0.778 | 0.299 | 1.077 | - | - |
| Left tilt | | | 0.279 | 0.276 | 0.555 | - | - |
| Hotspot | | Front | 1.058 | 0.128 | 1.186 | - | - |
| | | Back | 0.954 | 0.181 | 1.135 | - | - |
| | | Top | - | 0.103 | - | - | - |
| | | Bottom | 0.983 | - | - | - | - |
| | | Right | 0.241 | - | - | - | - |
| | | Left | 0.289 | 0.089 | 0.378 | - | - |

We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.022 with less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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| reported SAR WWAN and WLAN DTS 2.4GHz, Σ SAR evaluation | | | | | | | |
|--|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| WCDMA Band V | Head | Right cheek | 0.349 | 0.650 | 0.999 | - | - |
| | | Right tilt | 0.245 | 0.453 | 0.698 | - | - |
| | | Left cheek | 0.531 | 0.299 | 0.830 | - | - |
| | | Left tilt | 0.265 | 0.276 | 0.541 | - | - |
| | Hotspot | Front | 0.483 | 0.128 | 0.611 | - | - |
| | | Back | 0.931 | 0.181 | 1.112 | - | - |
| | | Top | - | 0.103 | - | - | - |
| | | Bottom | 0.056 | - | - | - | - |
| | | Right | 0.44 | - | - | - | - |
| | | Left | 0.409 | 0.089 | 0.498 | - | - |

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| reported SAR WWAN and WLAN DTS 5.8 GHz, Σ SAR evaluation | | | | | | | |
|---|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| GSM 850 | Head | Right cheek | 0.431 | 0.28 | 0.711 | - | - |
| | | Right tilt | 0.307 | 0.282 | 0.589 | - | - |
| | | Left cheek | 0.426 | 0.288 | 0.714 | - | - |
| | | Left tilt | 0.345 | 0.372 | 0.717 | - | - |
| GPRS 850 (1Dn4UP) | Hotspot | Front | 0.54 | 0.05 | 0.59 | - | - |
| | | Back | 0.893 | 0.112 | 1.005 | - | - |
| | | Top | - | 0.07 | - | - | - |
| | | Bottom | 0.064 | - | - | - | - |
| | | Right | 0.444 | - | - | - | - |
| | | Left | 0.437 | 0.053 | 0.49 | - | - |
| GSM 1900 | Head | Right cheek | 0.493 | 0.28 | 0.773 | - | - |
| | | Right tilt | 0.12 | 0.282 | 0.402 | - | - |
| | | Left cheek | 0.412 | 0.288 | 0.7 | - | - |
| | | Left tilt | 0.133 | 0.372 | 0.505 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Front | 1.338 | 0.05 | 1.388 | - | - |
| | | Back | 1.206 | 0.112 | 1.318 | - | - |
| | | Top | - | 0.07 | - | - | - |
| | | Bottom | 1.239 | - | - | - | - |
| | | Right | 0.306 | - | - | - | - |
| | | Left | 0.312 | 0.053 | 0.365 | - | - |

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| reported SAR WWAN and WLAN DTS 5.8 GHz, ΣSAR evaluation | | | | | | | |
|---|----------|-------------|---------------------|-------|----------|--------------------------|---------------|
| Frequency band | Position | | reported SAR / W/kg | | ΣSAR | Calculated distance (mm) | SPLSR (≤0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| WCDMA Band II | Head | Right cheek | 1.154 | 0.28 | 1.434 | - | - |
| | | Right tilt | 0.207 | 0.282 | 0.489 | - | - |
| | | Left cheek | 0.726 | 0.288 | 1.014 | - | - |
| | | Left tilt | 0.228 | 0.372 | 0.600 | - | - |
| | Hotspot | Front | 1.064 | 0.05 | 1.114 | - | - |
| | | Back | 1.121 | 0.112 | 1.233 | - | - |
| | | Top | - | 0.07 | - | - | - |
| | | Bottom | 1.176 | - | - | - | - |
| | | Right | 0.284 | - | - | - | - |
| | | Left | 0.256 | 0.053 | 0.309 | - | - |
| WCDMA Band IV | Head | Right cheek | 0.993 | 0.28 | 1.273 | - | - |
| | | Right tilt | 0.283 | 0.282 | 0.565 | - | - |
| | | Left cheek | 0.778 | 0.288 | 1.066 | - | - |
| | | Left tilt | 0.279 | 0.372 | 0.651 | - | - |
| | Hotspot | Front | 1.058 | 0.05 | 1.108 | - | - |
| | | Back | 0.954 | 0.112 | 1.066 | - | - |
| | | Top | - | 0.07 | - | - | - |
| | | Bottom | 0.983 | - | - | - | - |
| | | Right | 0.241 | - | - | - | - |
| | | Left | 0.289 | 0.053 | 0.342 | - | - |

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| reported SAR WWAN and WLAN DTS 5.8 GHz, Σ SAR evaluation | | | | | | | |
|---|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| WCDMA Band V | Head | Right cheek | 0.349 | 0.28 | 0.629 | - | - |
| | | Right tilt | 0.245 | 0.282 | 0.527 | - | - |
| | | Left cheek | 0.531 | 0.288 | 0.819 | - | - |
| | | Left tilt | 0.265 | 0.372 | 0.637 | - | - |
| | Hotspot | Front | 0.483 | 0.05 | 0.533 | - | - |
| | | Back | 0.931 | 0.112 | 1.043 | - | - |
| | | Top | - | 0.07 | - | - | - |
| | | Bottom | 0.056 | - | - | - | - |
| | | Right | 0.44 | - | - | - | - |
| | | Left | 0.409 | 0.053 | 0.462 | - | - |

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| reported SAR WWAN and WLAN UNII 5GHz, Σ SAR evaluation | | | | | | | |
|---|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| GSM 850 | Head | Right cheek | 0.431 | 0.593 | 1.024 | - | - |
| | | Right tilt | 0.307 | 0.627 | 0.934 | - | - |
| | | Left cheek | 0.426 | 0.585 | 1.011 | - | - |
| | | Left tilt | 0.345 | 0.615 | 0.96 | - | - |
| GPRS 850 (1Dn4UP) | Hotspot | Front | 0.54 | 0.058 | 0.598 | - | - |
| | | Back | 0.893 | 0.313 | 1.206 | - | - |
| | | Top | - | 0.215 | - | - | - |
| | | Bottom | 0.064 | - | - | - | - |
| | | Right | 0.444 | - | - | - | - |
| | | Left | 0.437 | 0.103 | 0.54 | - | - |
| GSM 1900 | Head | Right cheek | 0.493 | 0.593 | 1.086 | - | - |
| | | Right tilt | 0.12 | 0.627 | 0.747 | - | - |
| | | Left cheek | 0.412 | 0.585 | 0.997 | - | - |
| | | Left tilt | 0.133 | 0.615 | 0.748 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Front | 1.338 | 0.058 | 1.396 | - | - |
| | | Back | 1.206 | 0.313 | 1.519 | - | - |
| | | Top | - | 0.215 | - | - | - |
| | | Bottom | 1.239 | - | - | - | - |
| | | Right | 0.306 | - | - | - | - |
| | | Left | 0.312 | 0.103 | 0.415 | - | - |

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| reported SAR WWAN and WLAN UNII 5GHz, Σ SAR evaluation | | | | | | | |
|---|----------|-------------|---------------------|-------|--------------------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR <1.6W/kg | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | | | |
| WCDMA Band II | Head | Right cheek | 1.154 | 0.593 | 1.747 | 92.1 | 0.025 |
| | | Right tilt | 0.207 | 0.627 | 0.834 | - | - |
| | | Left cheek | 0.726 | 0.585 | 1.311 | - | - |
| | | Left tilt | 0.228 | 0.615 | 0.843 | - | - |
| | Hotspot | Front | 1.064 | 0.058 | 1.122 | - | - |
| | | Back | 1.121 | 0.313 | 1.434 | - | - |
| | | Top | - | 0.215 | - | - | - |
| | | Bottom | 1.176 | - | - | - | - |
| | | Right | 0.284 | - | - | - | - |
| | | Left | 0.256 | 0.103 | 0.359 | - | - |
| WCDMA Band IV | Head | Right cheek | 0.993 | 0.593 | 1.586 | - | - |
| | | Right tilt | 0.283 | 0.627 | 0.910 | - | - |
| | | Left cheek | 0.778 | 0.585 | 1.363 | - | - |
| | | Left tilt | 0.279 | 0.615 | 0.894 | - | - |
| | Hotspot | Front | 1.058 | 0.058 | 1.116 | - | - |
| | | Back | 0.954 | 0.313 | 1.267 | - | - |
| | | Top | - | 0.215 | - | - | - |
| | | Bottom | 0.983 | - | - | - | - |
| | | Right | 0.241 | - | - | - | - |
| | | Left | 0.289 | 0.103 | 0.392 | - | - |

We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.022 with less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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| reported SAR WWAN and WLAN UNII 5GHz, Σ SAR evaluation | | | | | | | |
|---|----------|-------------|---------------------|-------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | WLAN | <1.6W/kg | | |
| WCDMA Band V | Head | Right cheek | 0.349 | 0.593 | 0.942 | - | - |
| | | Right tilt | 0.245 | 0.627 | 0.872 | - | - |
| | | Left cheek | 0.531 | 0.585 | 1.116 | - | - |
| | | Left tilt | 0.265 | 0.615 | 0.88 | - | - |
| | Hotspot | Front | 0.483 | 0.058 | 0.541 | - | - |
| | | Back | 0.931 | 0.313 | 1.244 | - | - |
| | | Top | - | 0.215 | - | - | - |
| | | Bottom | 0.056 | - | - | - | - |
| | | Right | 0.44 | - | - | - | - |
| | | Left | 0.409 | 0.103 | 0.512 | - | - |

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| reported SAR WWAN and Bluetooth, Σ SAR evaluation | | | | | | | |
|--|----------|--------|---------------------|-----------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | Bluetooth | <1.6W/kg | | |
| GPRS 850 (1Dn4UP) | Hotspot | Front | 0.54 | 0.184 | 0.724 | - | - |
| | | Back | 0.893 | 0.184 | 1.077 | - | - |
| | | Top | - | 0.184 | - | - | - |
| | | Bottom | 0.064 | - | - | - | - |
| | | Right | 0.444 | - | - | - | - |
| | | Left | 0.437 | 0.184 | 0.621 | - | - |
| GPRS 1900 (1Dn4UP) | Hotspot | Front | 1.338 | 0.184 | 1.522 | - | - |
| | | Back | 1.206 | 0.184 | 1.39 | - | - |
| | | Top | - | 0.184 | - | - | - |
| | | Bottom | 1.239 | - | - | - | - |
| | | Right | 0.306 | - | - | - | - |
| | | Left | 0.312 | 0.184 | 0.496 | - | - |
| WCDMA Band II | Hotspot | Front | 1.064 | 0.184 | 1.248 | - | - |
| | | Back | 1.121 | 0.184 | 1.305 | - | - |
| | | Top | - | 0.184 | - | - | - |
| | | Bottom | 1.176 | - | - | - | - |
| | | Right | 0.284 | - | - | - | - |
| | | Left | 0.256 | 0.184 | 0.440 | - | - |
| WCDMA Band IV | Hotspot | Front | 1.058 | 0.184 | 1.242 | - | - |
| | | Back | 0.954 | 0.184 | 1.138 | - | - |
| | | Top | - | 0.184 | - | - | - |
| | | Bottom | 0.983 | - | - | - | - |
| | | Right | 0.241 | - | - | - | - |
| | | Left | 0.289 | 0.184 | 0.473 | - | - |

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| reported SAR WWAN and Bluetooth, Σ SAR evaluation | | | | | | | |
|--|----------|--------|---------------------|-----------|--------------|--------------------------|-----------------------|
| Frequency band | Position | | reported SAR / W/kg | | Σ SAR | Calculated distance (mm) | SPLSR (≤ 0.04) |
| | | | WWAN | Bluetooth | <1.6W/kg | | |
| WCDMA Band V | Hotspot | Front | 0.483 | 0.184 | 0.667 | - | - |
| | | Back | 0.931 | 0.184 | 1.115 | - | - |
| | | Top | - | 0.184 | - | - | - |
| | | Bottom | 0.056 | - | - | - | - |
| | | Right | 0.44 | - | - | - | - |
| | | Left | 0.409 | 0.184 | 0.593 | - | - |

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4. Instruments List

| Device | Manufacturer | Type | Serial number | Date of last calibration | Date of next calibration |
|---|---------------------------------|---------------|---------------|--------------------------|--------------------------|
| Dosimetric E-Field Probe | Schmid & Partner Engineering AG | ES3DV3 | 3071 | Jun.22,2012 | Jun.21,2013 |
| | | EX3DV4 | 3820 | Dec.10,2012 | Dec.09,2013 |
| 835/1750/1900/2450 /5200/5500/5800 MHz System Validation Dipole | Schmid & Partner Engineering AG | D835V2 | 4d063 | May25,2012 | May24,2013 |
| | | D1750V2 | 1008 | May29,2012 | May28,2013 |
| | | D1900V2 | 5d018 | Jun.21,2012 | Jun.20,2013 |
| | | D2450V2 | 869 | Jun.15,2012 | Jun.14,2013 |
| | | D5GHzV2 | 1040 | Jun.19,2012 | Jun.18,2013 |
| Data acquisition Electronics | Schmid & Partner Engineering AG | DAE4 | 1336 | Jun.05,2012 | Jun.04,2013 |
| Software | Schmid & Partner Engineering AG | DASY 52 V52.8 | N/A | Calibration not required | Calibration not required |
| Phantom | Schmid & Partner Engineering AG | SAM | N/A | Calibration not required | Calibration not required |
| Network Analyzer | Agilent | E5071C | MY46107530 | Feb.22,2013 | Feb.21,2014 |
| Dielectric Probe Kit | Agilent | 85070E | MY44300677 | Calibration not required | Calibration not required |
| | | 772D | MY46151242 | Jul.05,2012 | Jul.04,2013 |
| Dual-directional coupler | Agilent | 778D | MY48220468 | Mar.29,2013 | Mar.28,2014 |
| | | N5181A | MY50141235 | Dec.12,2010 | Dec.11,2013 |
| RF Signal Generator | Agilent | E4417A | MY51410006 | Oct.24,2011 | Oct.23,2013 |
| Power Meter | Agilent | E9301H | MY51470002 | Nov.22,2012 | Nov.21,2013 |
| Radio Communication Test | R&S | CMU200 | 122498 | Jun.27,2012 | Jun.26,2013 |
| TECPEL | Digital thermometer | DTM-303A | TP130074 | Mar.04,2013 | Mar.03,2014 |
| Power Meter | Anritsu | MA2411B | 917032 | Feb.08,2012 | Feb.07,2014 |
| Power Sensor | Anritsu | ML2495A | 1005007 | Feb.08,2012 | Feb.07,2014 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | Apr.15,2013 | Apr.14,2014 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | Mar.15,2013 | Mar.14,2014 |

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5. Measurements

Date: 2013/5/4

RE Cheek_CH128

Communication System: GSM; Frequency: 824.2 MHz

 Medium parameters used : $f = 824.2$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.62$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.410 W/kg

Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

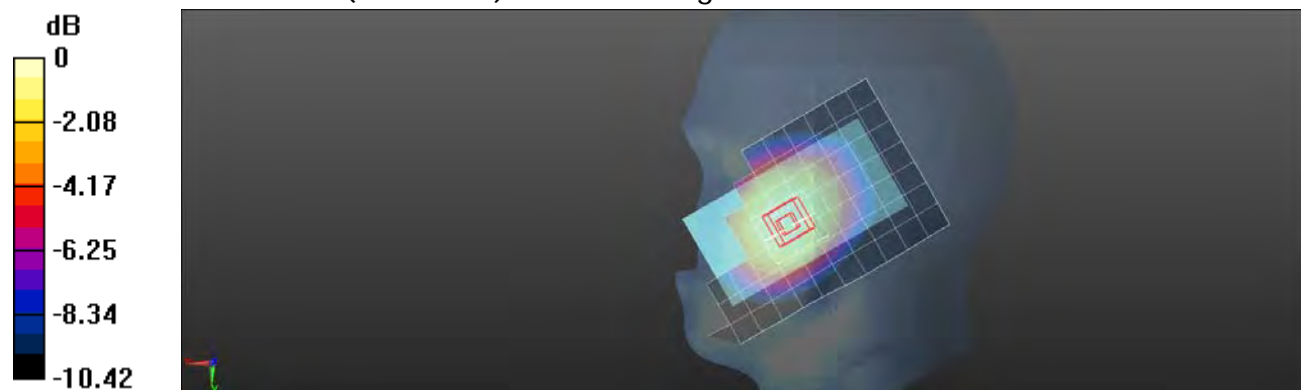
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.001 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.490 W/kg

SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.285 W/kg

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



0 dB = 0.418 W/kg = -3.79 dBW/kg

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Date: 2013/5/4

RE Cheek_CH190

Communication System: GSM; Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.424 W/kg

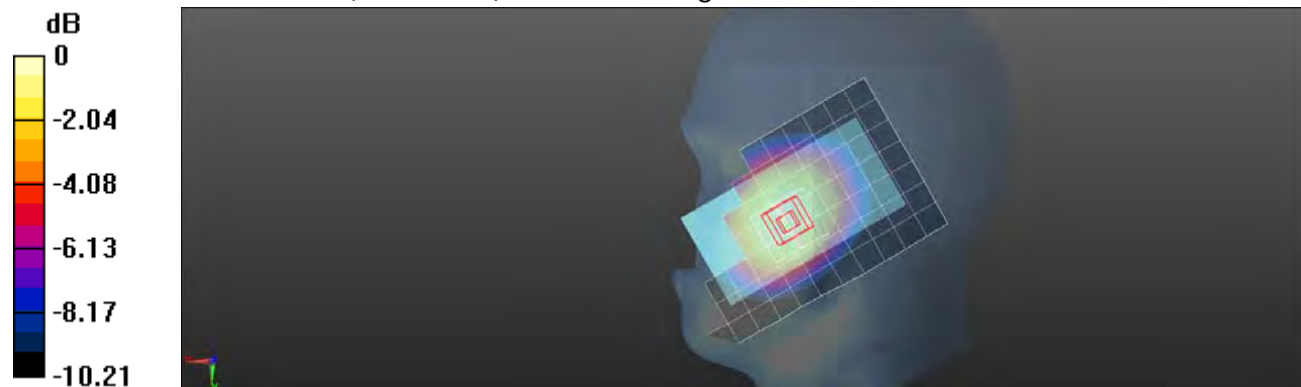
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.986 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.299 W/kg

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.440 W/kg = -3.57 dBW/kg

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Date: 2013/5/4

RE Cheek_CH251

Communication System: GSM; Frequency: 848.8 MHz

 Medium parameters used: $f = 849$ MHz; $\sigma = 0.906$ S/m; $\epsilon_r = 41.321$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

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

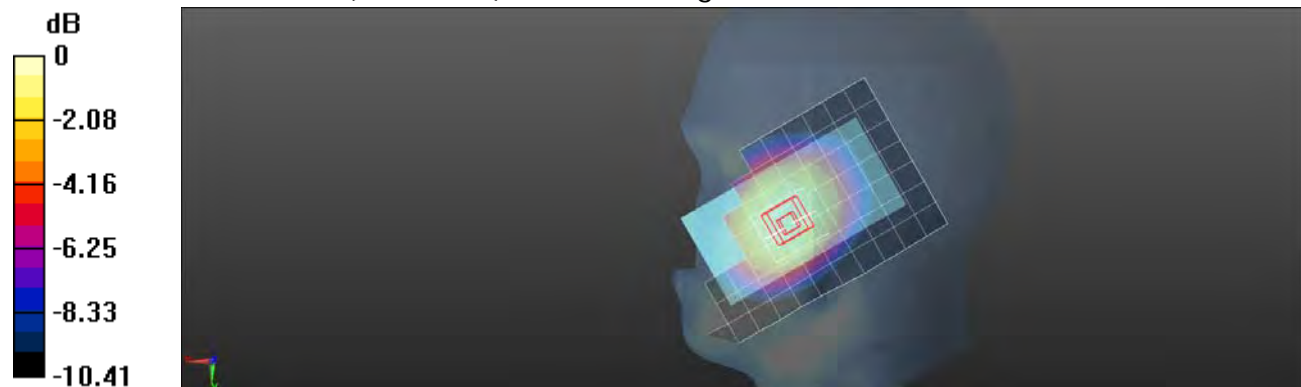
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.057 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.527 W/kg

SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 0.444 W/kg



0 dB = 0.444 W/kg = -3.53 dBW/kg

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Date: 2013/5/4

RE Tilt_CH190

Communication System: GSM; Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.314 W/kg

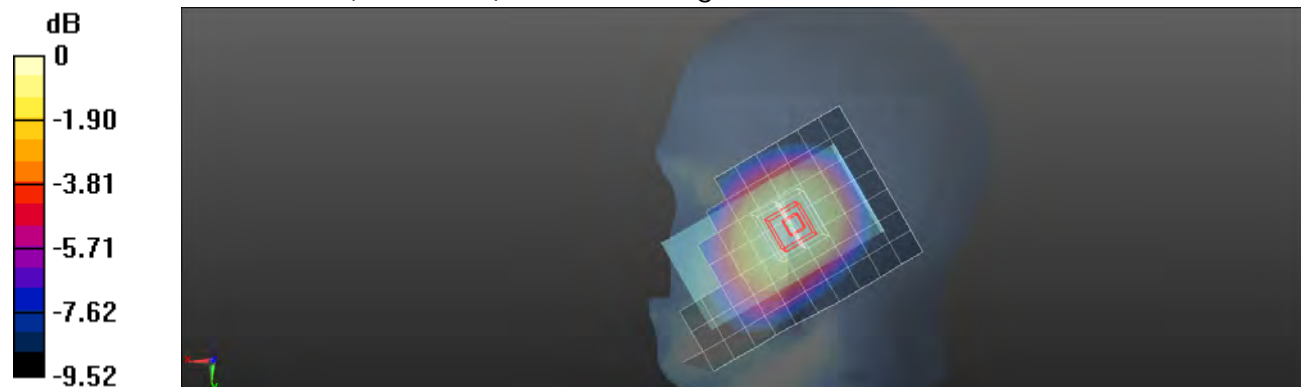
Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.591 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 0.320 W/kg



0 dB = 0.320 W/kg = -4.95 dBW/kg

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Date: 2013/5/4

LE Cheek_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.407 W/kg

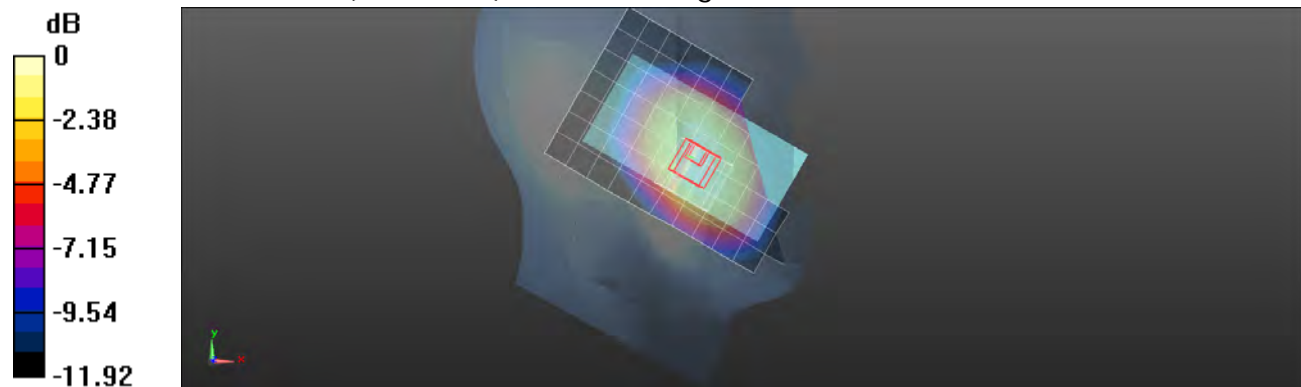
Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.304 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 0.445 W/kg



0 dB = 0.445 W/kg = -3.52 dBW/kg

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Date: 2013/5/4

LE Tilt_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.349 W/kg

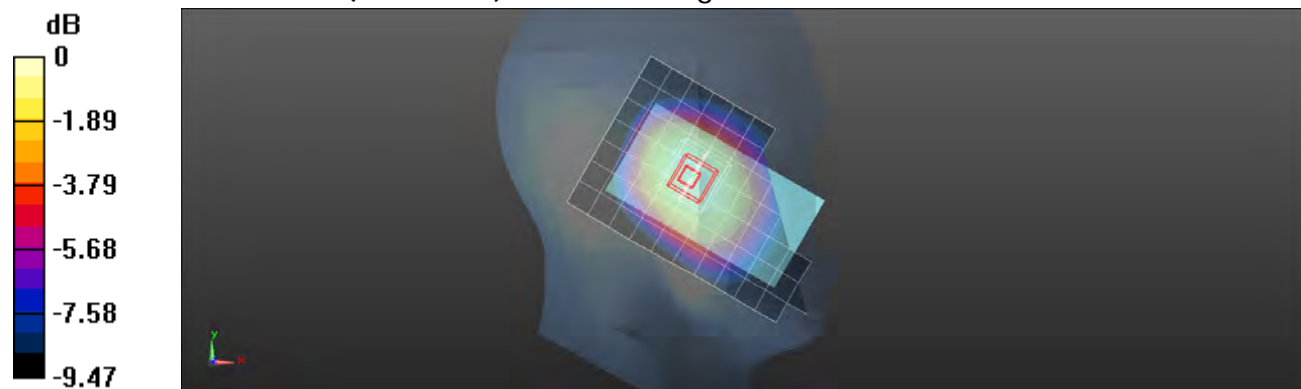
Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.839 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.423 W/kg

SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 0.359 W/kg



0 dB = 0.359 W/kg = -4.45 dBW/kg

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Date: 2013/5/4

Body-worn_Speech mode_Front side_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.400 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

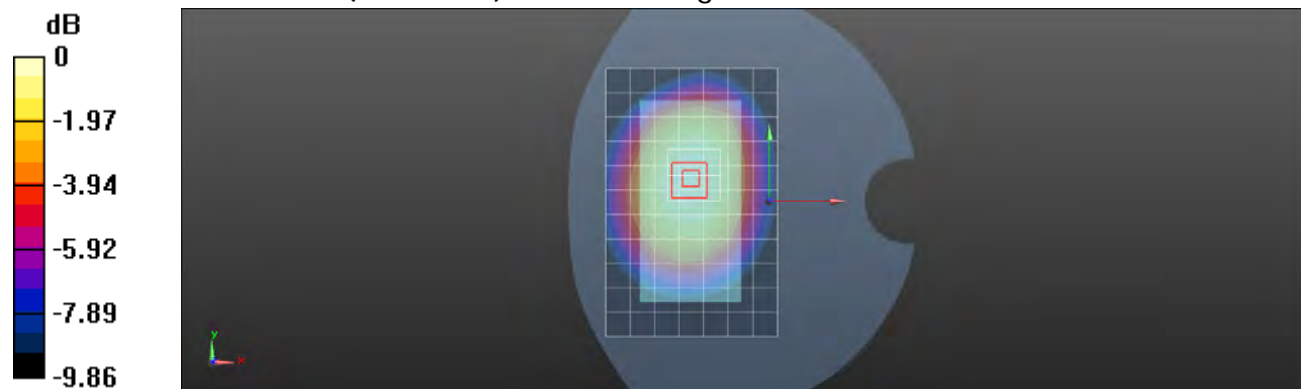
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.506 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.293 W/kg

Maximum value of SAR (measured) = 0.433 W/kg



0 dB = 0.433 W/kg = -3.64 dBW/kg

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Date: 2013/5/4

Body-worn_Speech mode_Back side_CH190

Communication System: GSM; Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.478 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

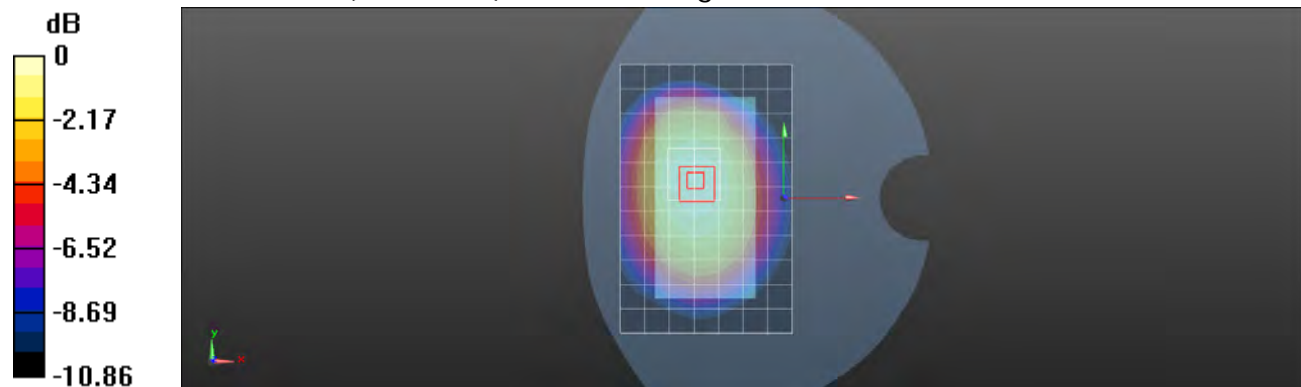
dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.272 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.575 W/kg

SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.479 W/kg



0 dB = 0.479 W/kg = -3.20 dBW/kg

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Date: 2013/5/4

Hotspot mode_Front side_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.573 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

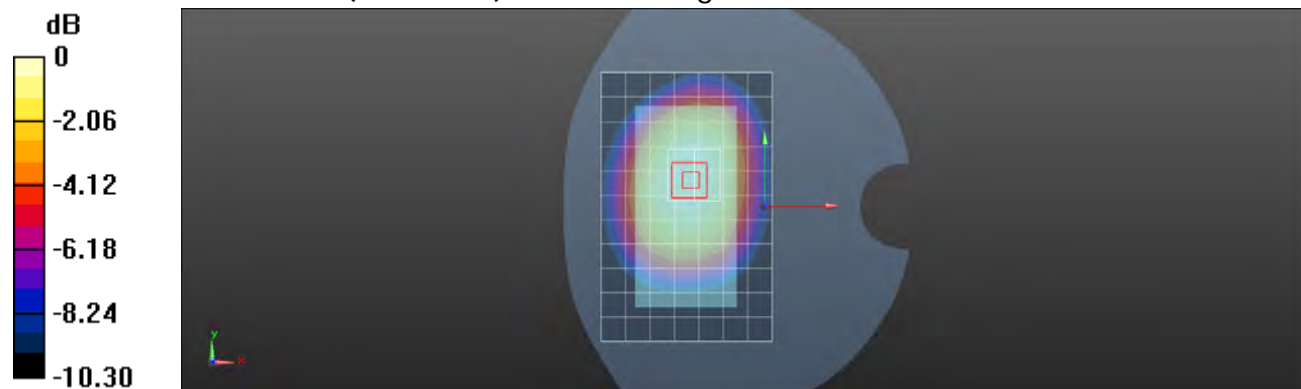
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.502 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.675 W/kg

SAR(1 g) = 0.528 W/kg; SAR(10 g) = 0.391 W/kg

Maximum value of SAR (measured) = 0.572 W/kg



0 dB = 0.572 W/kg = -2.43 dBW/kg

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Date: 2013/5/4

Hotspot mode_Back side_CH128

Communication System: GPRS (Class 12); Frequency: 824.2 MHz

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 56.444$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.831 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.533 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.944 W/kg

SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.520 W/kg

Maximum value of SAR (measured) = 0.834 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

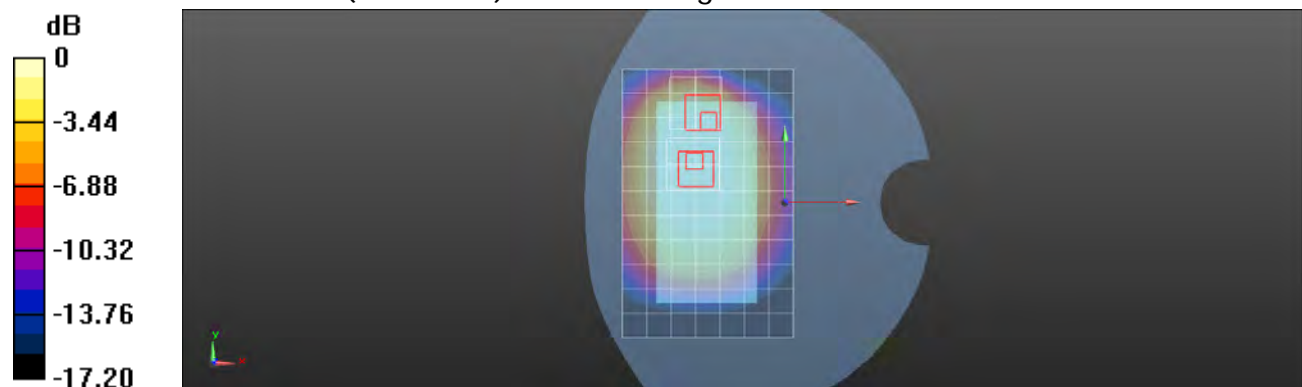
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.533 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.311 W/kg

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



0 dB = 0.665 W/kg = -1.77 dBW/kg

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Date: 2013/5/4

Hotspot mode_Back side_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.908 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.731 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.576 W/kg

Maximum value of SAR (measured) = 0.922 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

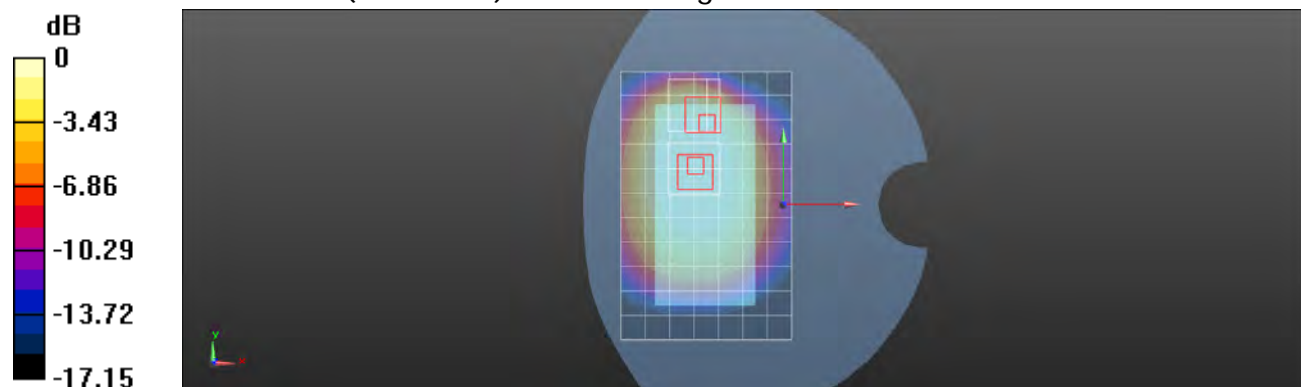
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.731 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.343 W/kg

Maximum value of SAR (measured) = 0.740 W/kg


 0 dB = 0.740 W/kg = -1.31 dBW/kg

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Date: 2013/5/4

Hotspot mode_Back side_CH251

Communication System: GPRS (Class 12); Frequency: 848.8 MHz

Medium parameters used: $f = 849$ MHz; $\sigma = 0.999$ S/m; $\epsilon_r = 56.275$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.03 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

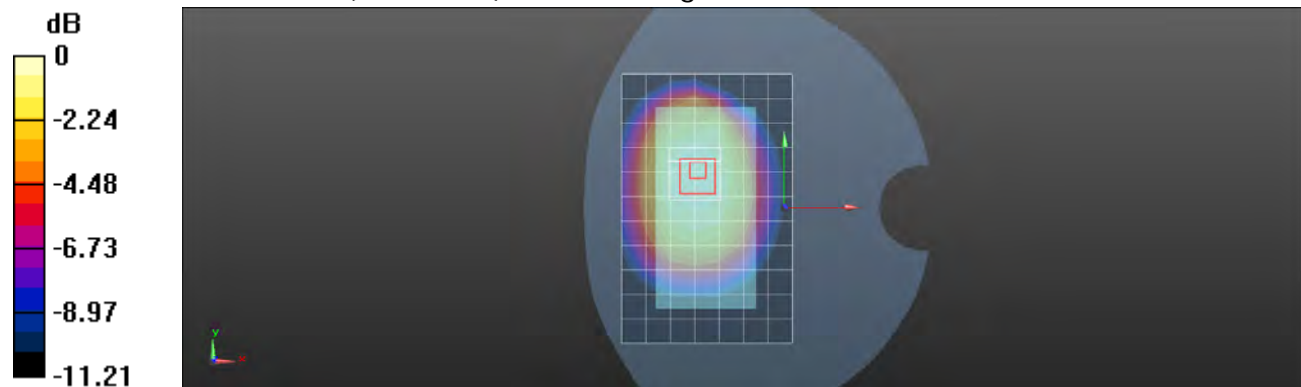
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.511 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.873 W/kg; SAR(10 g) = 0.640 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/4

Hotspot mode_Back side_CH251_repeat SAR test at the highest SAR measurement

Communication System: GPRS (Class 12); Frequency: 848.8 MHz

Medium parameters used: $f = 849$ MHz; $\sigma = 0.999$ S/m; $\epsilon_r = 56.275$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.992 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.351 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.636 W/kg

Maximum value of SAR (measured) = 1.02 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.351 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.868 W/kg

SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.350 W/kg

Maximum value of SAR (measured) = 0.775 W/kg



0 dB = 0.775 W/kg = -1.11 dBW/kg

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Date: 2013/5/4

Hotspot mode_Bottom side_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0724 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

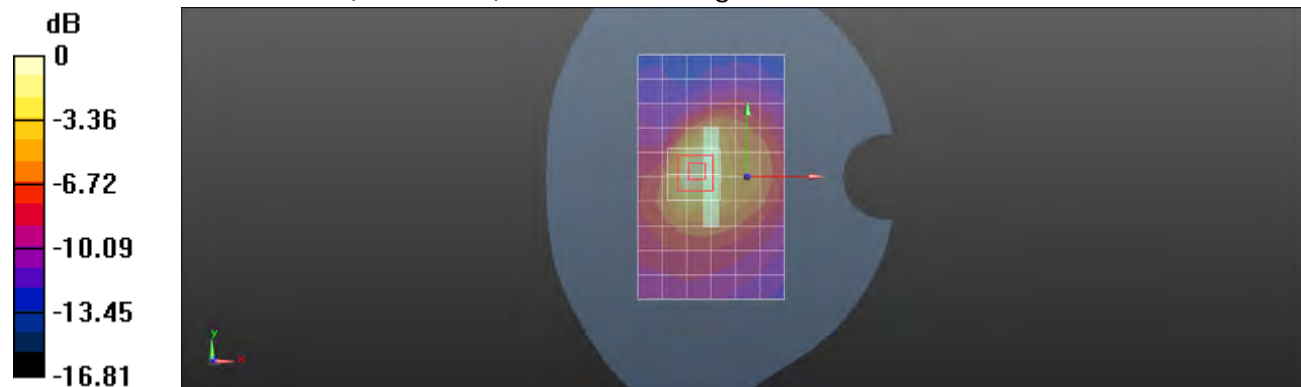
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.976 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.0915 W/kg



0 dB = 0.0915 W/kg = -10.39 dBW/kg

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Date: 2013/5/4

Hotspot mode_Right side_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.470 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

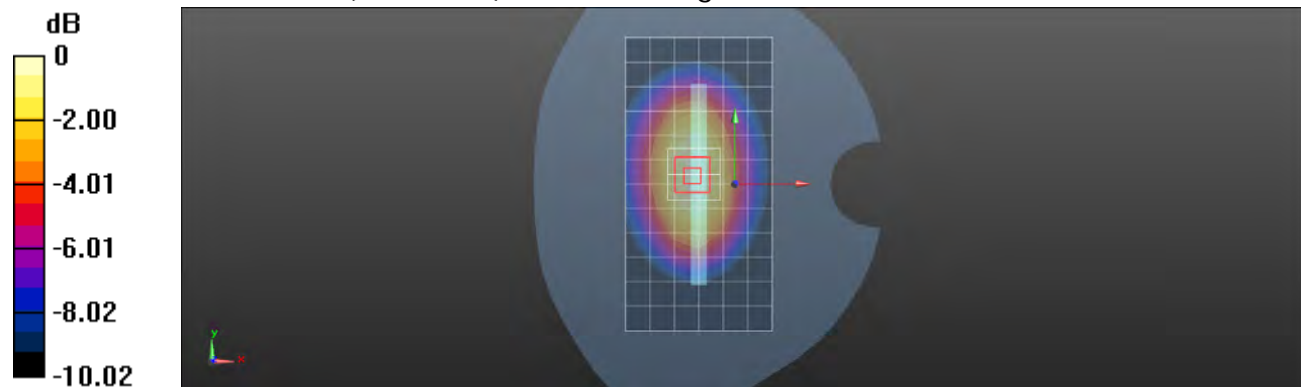
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 21.577 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.606 W/kg

SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 0.485 W/kg


 0 dB = 0.485 W/kg = -3.14 dBW/kg

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Date: 2013/5/4

Hotspot mode_Left side_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.471 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

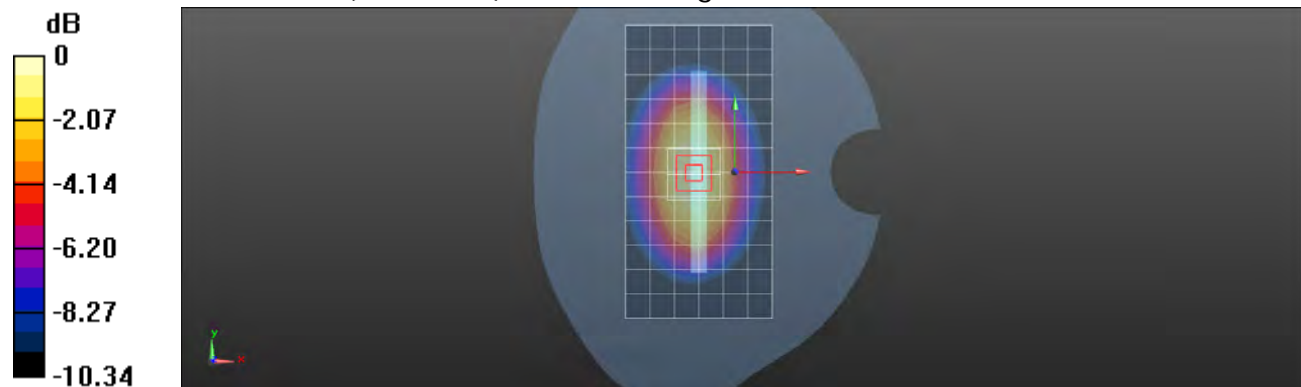
dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.250 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.604 W/kg

SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.289 W/kg

Maximum value of SAR (measured) = 0.478 W/kg



0 dB = 0.478 W/kg = -3.21 dBW/kg

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Date: 2013/5/8

RE Cheek_CH512

Communication System: GSM; Frequency: 1850.2 MHz

 Medium parameters used : $f = 1850.2 \text{ MHz}$; $\sigma = 1.334 \text{ S/m}$; $\epsilon_r = 41.227$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.396 W/kg

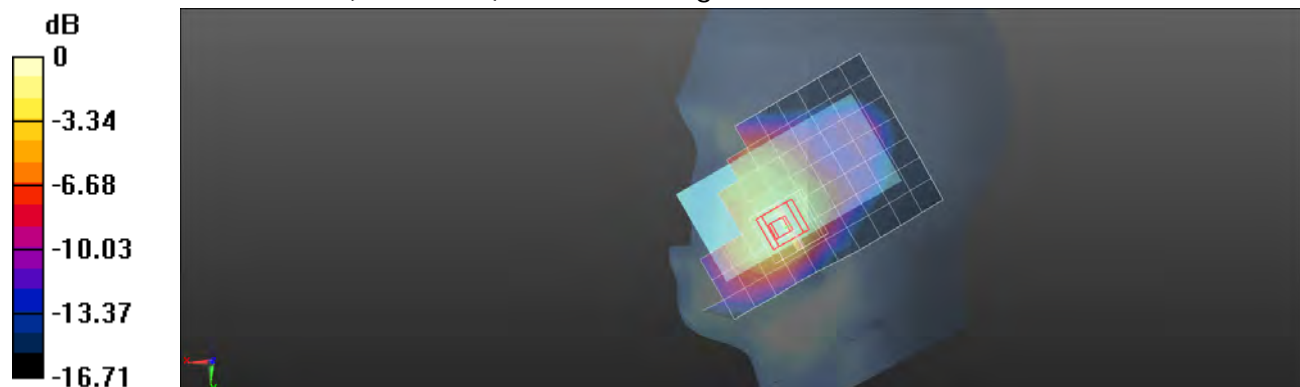
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.038 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.451 W/kg = -3.46 dBW/kg

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Date: 2013/5/8

RE Cheek_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.458 W/kg

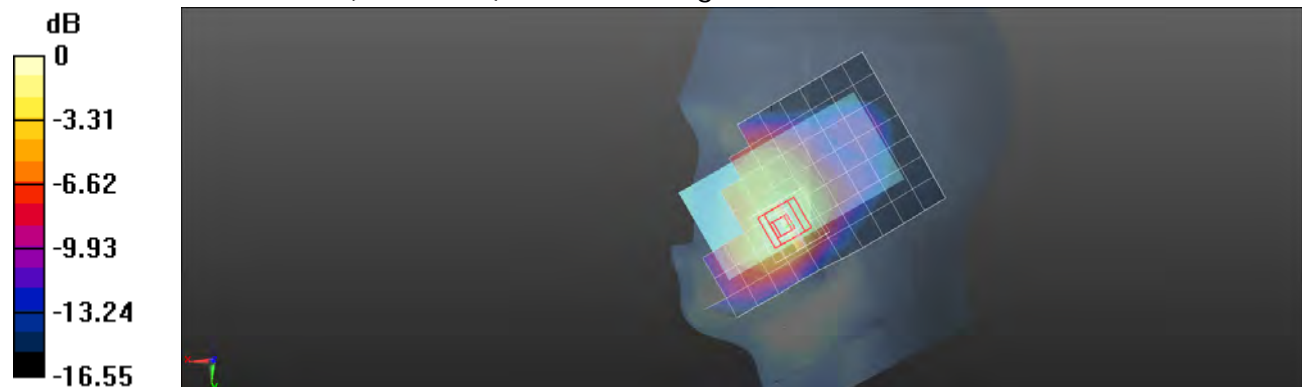
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.871 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 0.529 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

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Date: 2013/5/8

RE Cheek_CH810

Communication System: GSM; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 41.06$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.476 W/kg

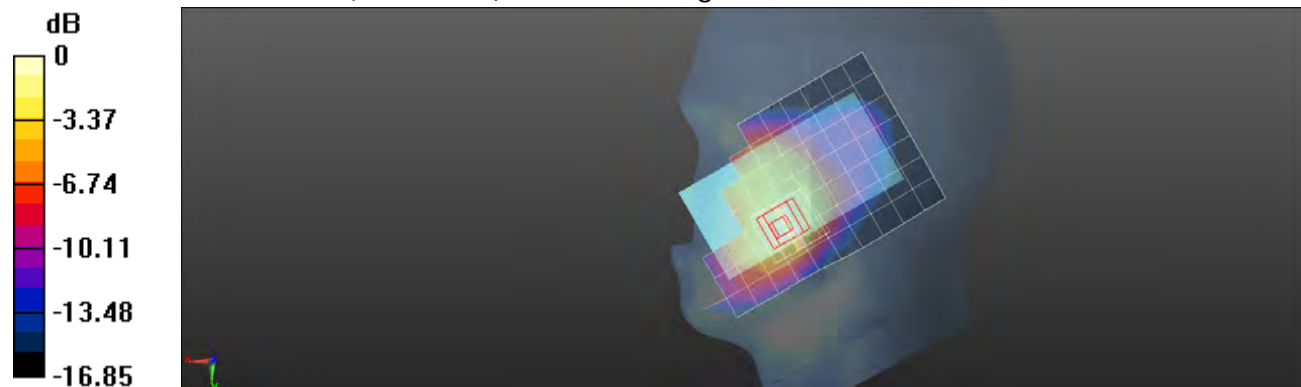
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.046 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.731 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.296 W/kg

Maximum value of SAR (measured) = 0.552 W/kg



0 dB = 0.552 W/kg = -2.58 dBW/kg

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Date: 2013/5/8

RE Tilt_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.125 W/kg

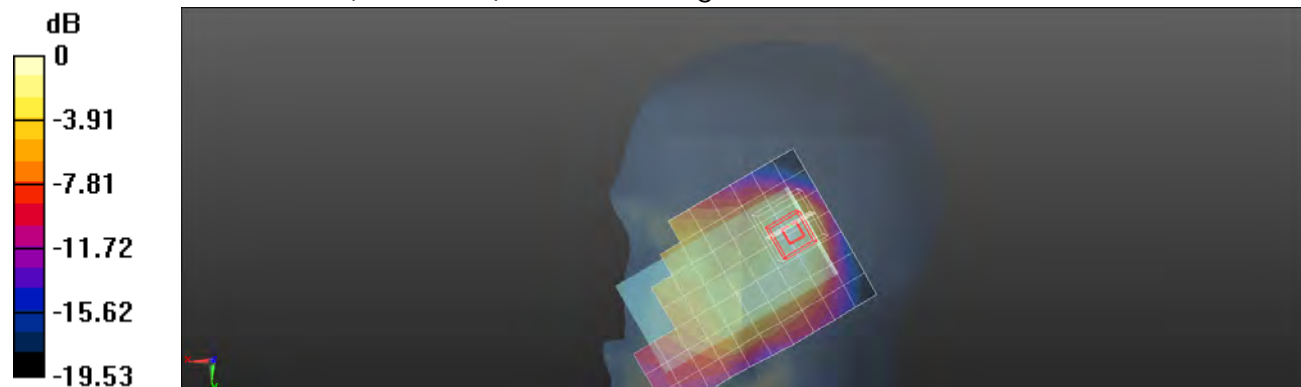
Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.231 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.132 W/kg = -8.79 dBW/kg

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Date: 2013/5/8

LE Cheek_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.433 W/kg

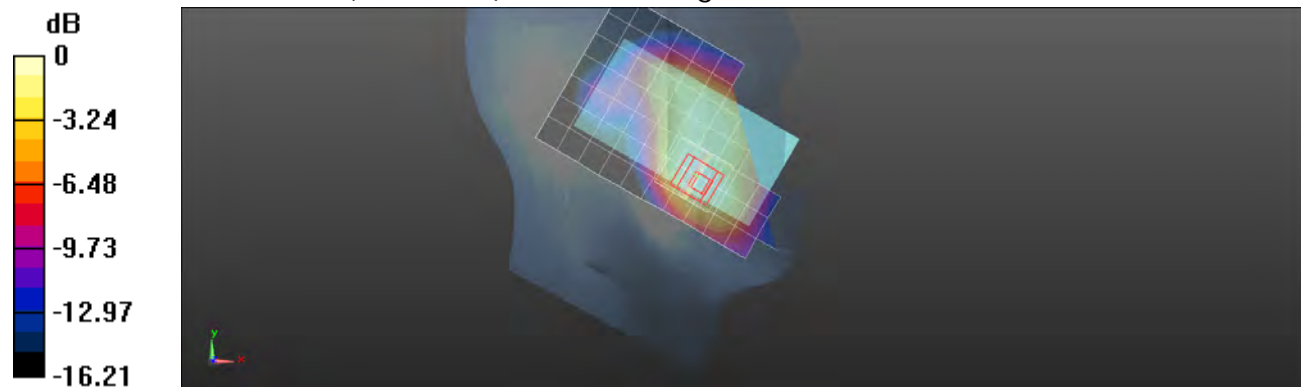
Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.795 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.623 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 0.432 W/kg



0 dB = 0.432 W/kg = -3.65 dBW/kg

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Date: 2013/5/8

LE Tilt_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

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

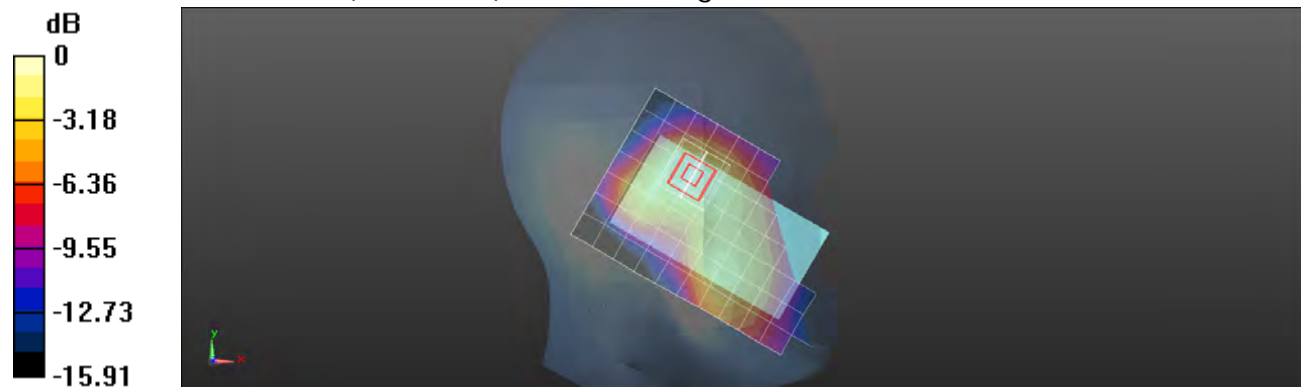
Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.144 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.080 W/kg

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



0 dB = 0.145 W/kg = -8.39 dBW/kg

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Date: 2013/5/8

Body-worn_Speech mode_Front side_CH661

Communication System: GSM; Frequency: 1880 MHz

 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 51.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.316 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.691 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.465 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.184 W/kg

Maximum value of SAR (measured) = 0.334 W/kg


 $0 \text{ dB} = 0.334 \text{ W/kg} = -4.76 \text{ dBW/kg}$

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Date: 2013/5/8

Body-worn_Speech mode_Back side_CH661

Communication System: GSM; Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.399 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

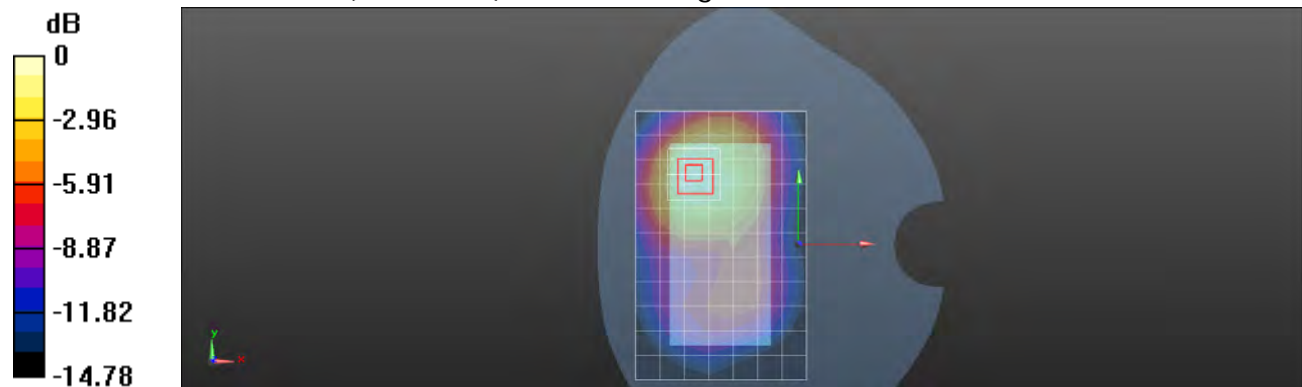
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.627 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.541 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.446 W/kg



0 dB = 0.446 W/kg = -3.51 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH512

Communication System: GPRS (Class 12); Frequency: 1850.2 MHz

 Medium parameters used : $f = 1850.2$ MHz; $\sigma = 1.478$ S/m; $\epsilon_r = 51.516$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.02 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

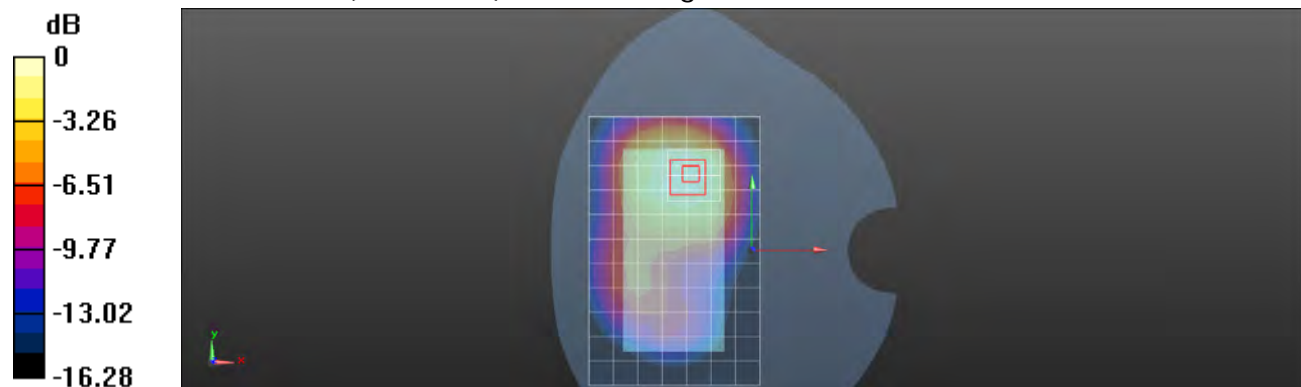
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.718 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.934 W/kg; SAR(10 g) = 0.580 W/kg

Maximum value of SAR (measured) = 1.05 W/kg


 0 dB = 1.05 W/kg = 0.21 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.08 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

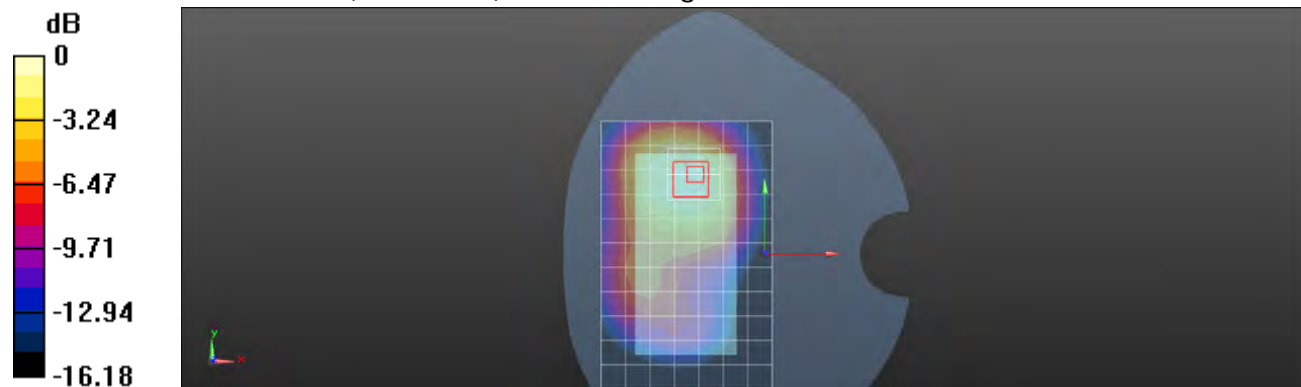
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.519 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.608 W/kg

Maximum value of SAR (measured) = 1.10 W/kg


 $0 \text{ dB} = 1.10 \text{ W/kg} = 0.41 \text{ dBW/kg}$

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Date: 2013/5/8

Hotspot mode_Front side_CH810

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 51.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.30 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.242 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.715 W/kg

Maximum value of SAR (measured) = 1.31 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.242 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.559 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH810_repeated with external Memory card inside

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 51.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.30 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.271 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.713 W/kg

Maximum value of SAR (measured) = 1.31 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

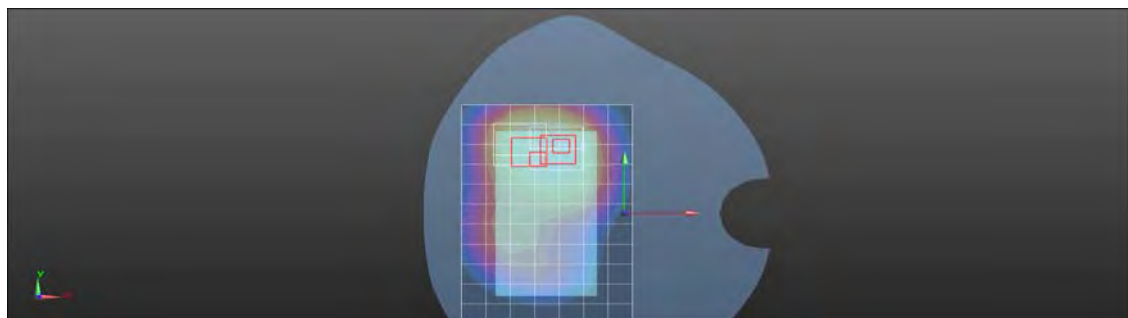
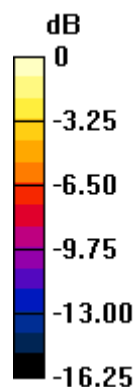
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.271 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.583 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH810_repeated with headset (MH410C)

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 51.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.32 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

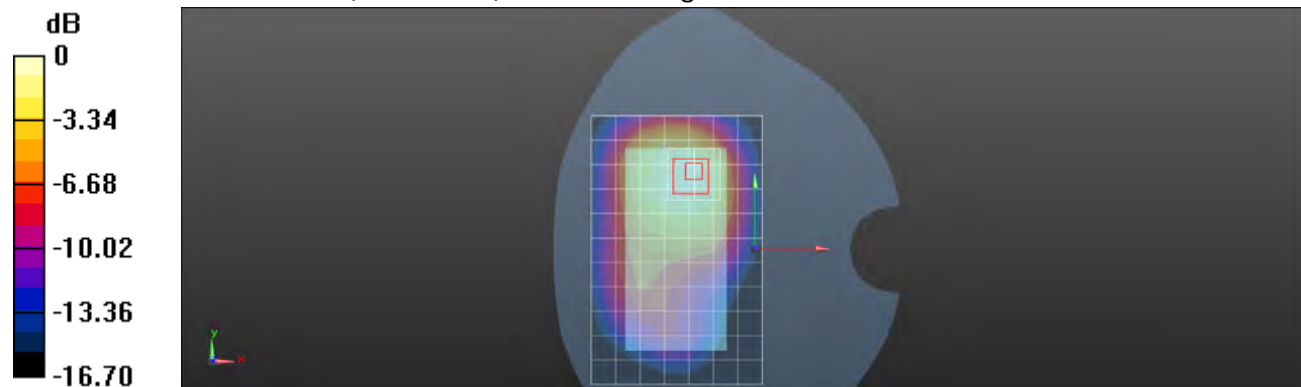
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.189 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.727 W/kg

Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH810_repeated with headset (MH410C)_repeat SAR test at the highest SAR measurement

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 51.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

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

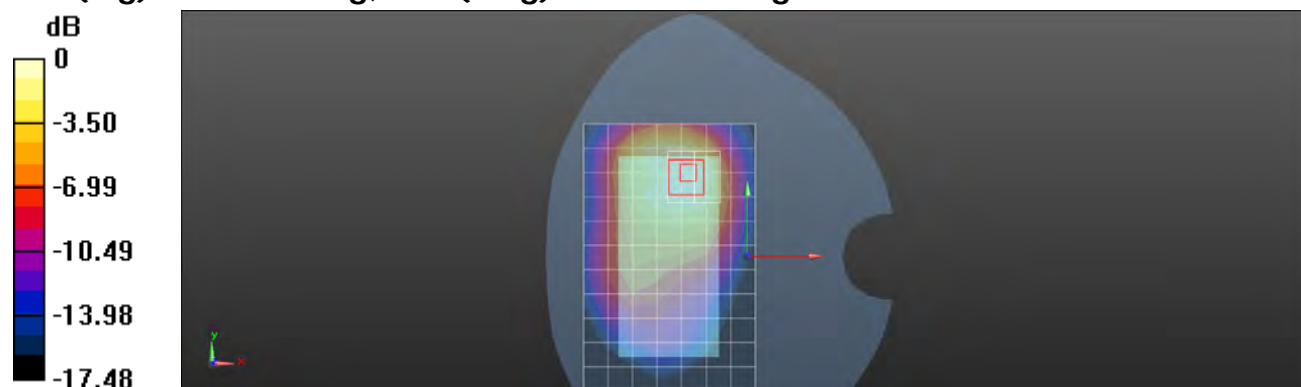
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.089 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.735 W/kg

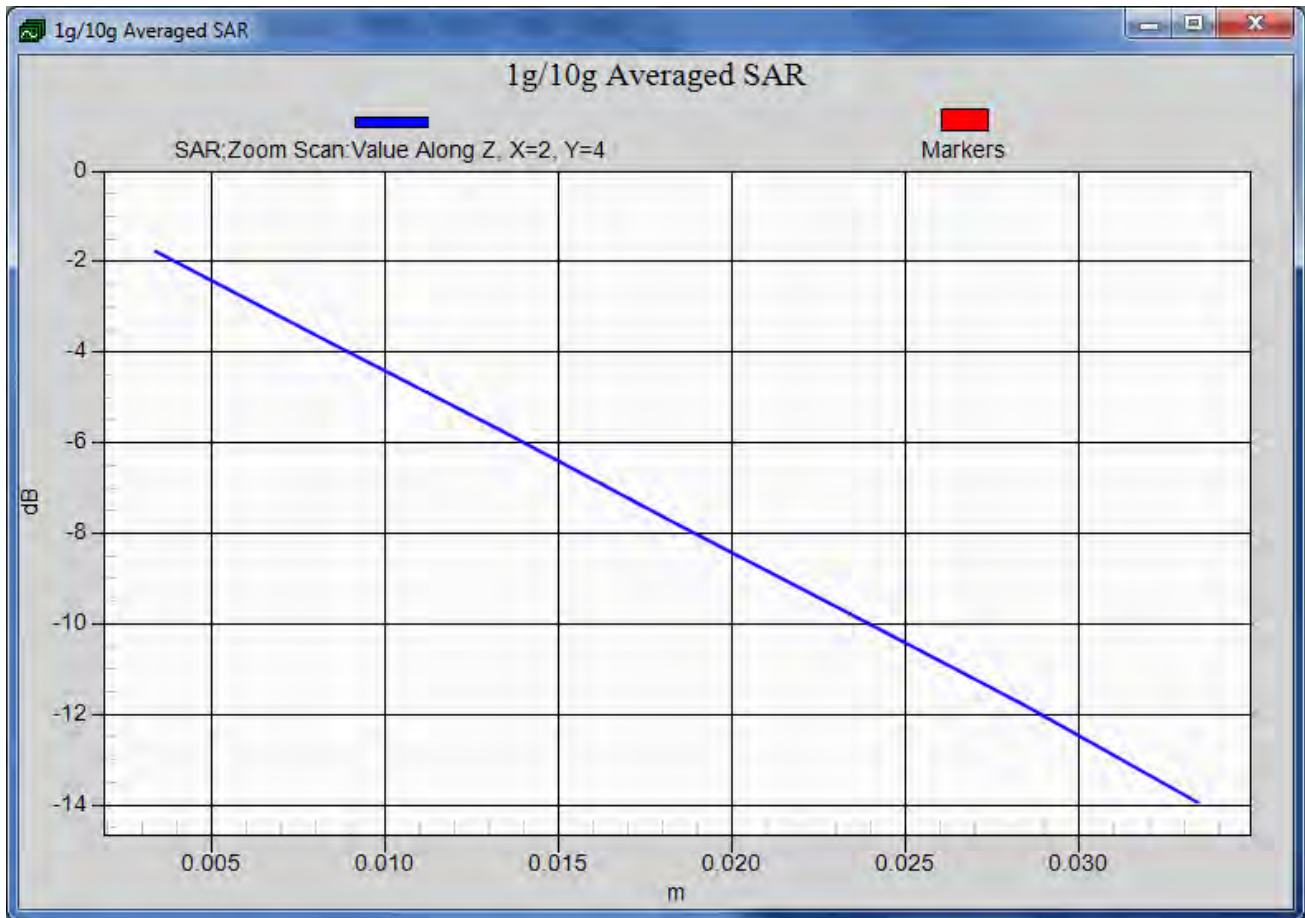


0 dB = 1.38 W/kg = 1.40 dBW/kg

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Date: 2013/5/8

Hotspot mode_Back side_CH512

Communication System: GPRS (Class 12); Frequency: 1850.2 MHz

 Medium parameters used : $f = 1850.2$ MHz; $\sigma = 1.478$ S/m; $\epsilon_r = 51.516$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.05 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

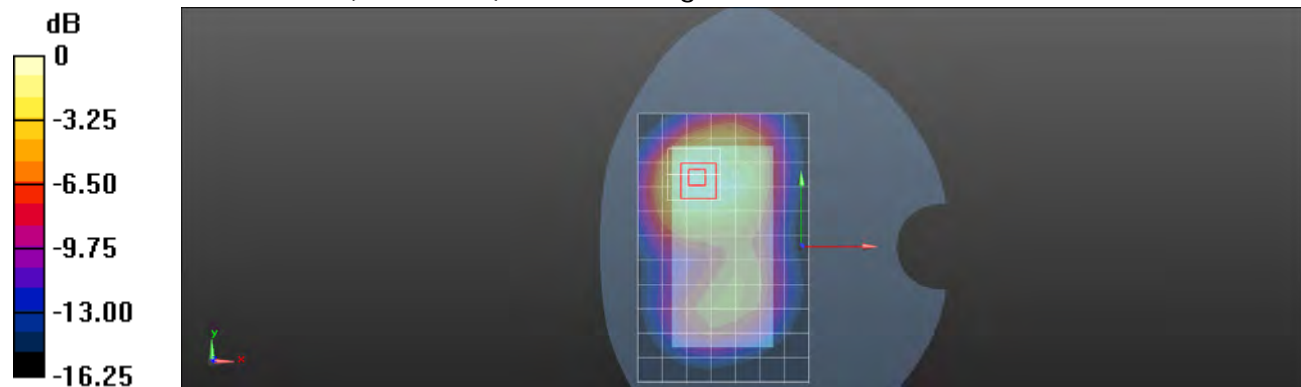
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.723 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.603 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Date: 2013/5/8

Hotspot mode_Back side_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 51.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.14 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

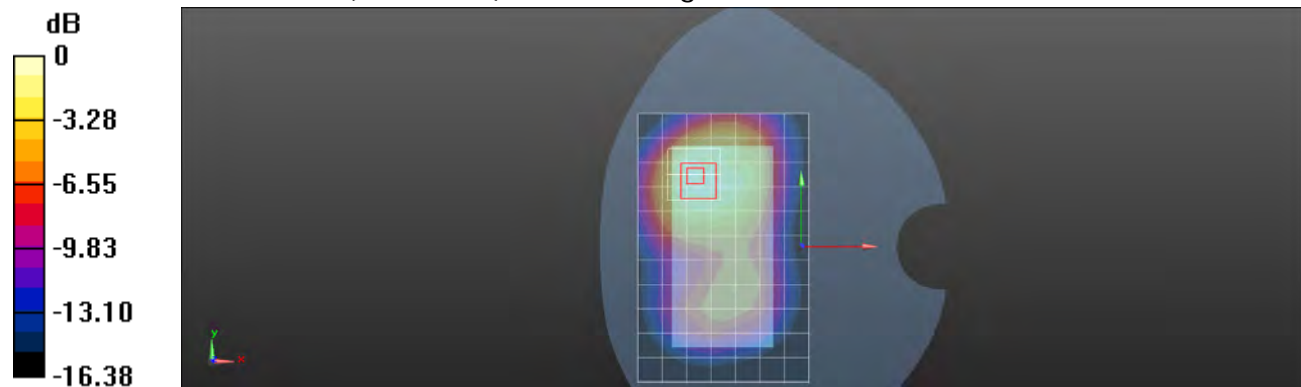
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.761 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.690 W/kg

Maximum value of SAR (measured) = 1.27 W/kg


 $0 \text{ dB} = 1.27 \text{ W/kg} = 1.04 \text{ dBW/kg}$

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Date: 2013/5/8

Hotspot mode_Back side_CH810

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 51.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

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

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

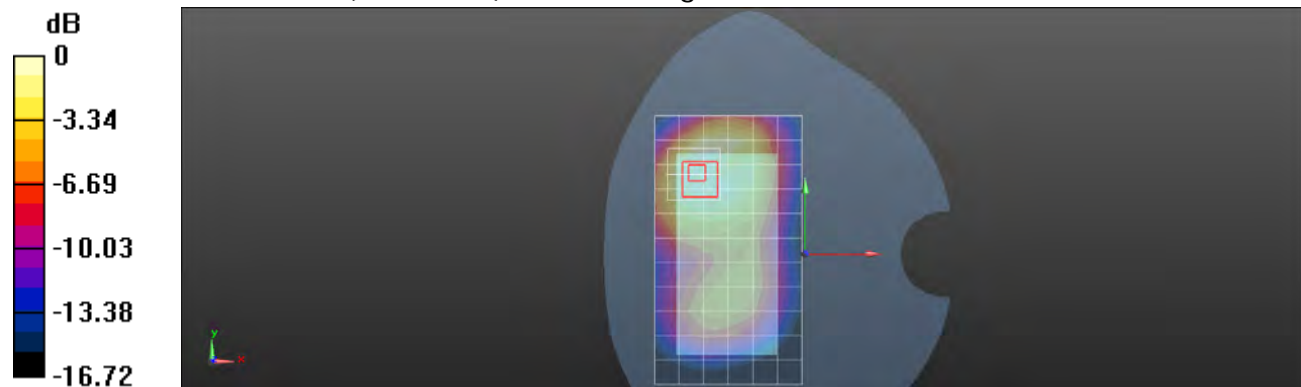
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.776 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.680 W/kg

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

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Date: 2013/5/8

Hotspot mode_Bottom side_CH512

Communication System: GPRS (Class 12); Frequency: 1850.2 MHz

 Medium parameters used : $f = 1850.2$ MHz; $\sigma = 1.478$ S/m; $\epsilon_r = 51.516$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.992 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

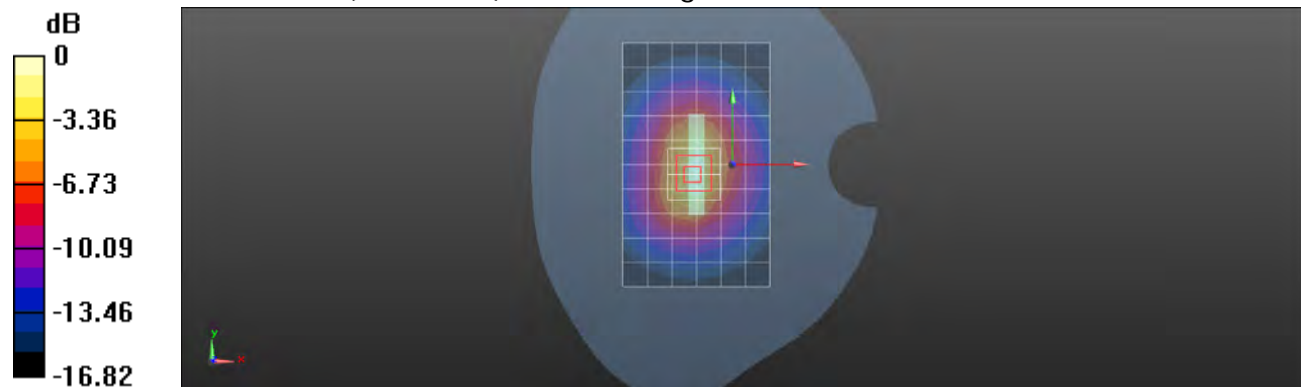
dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.313 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.490 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

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Member of SGS Group

Date: 2013/5/8

Hotspot mode_Bottom side_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.11 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

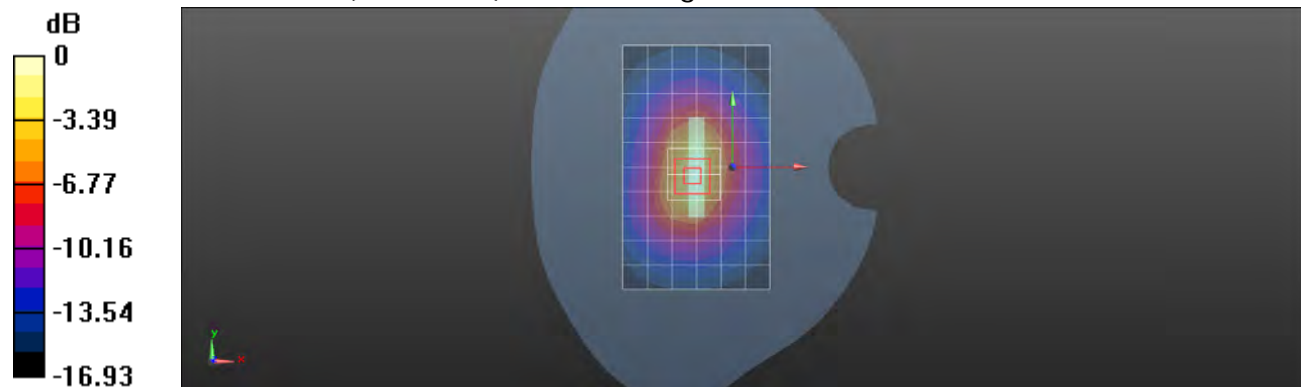
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 23.710 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.536 W/kg

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



0 dB = 1.22 W/kg = 0.86 dBW/kg

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Date: 2013/5/8

Hotspot mode_Bottom side_CH810

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.542$ S/m; $\epsilon_r = 51.333$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.25 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

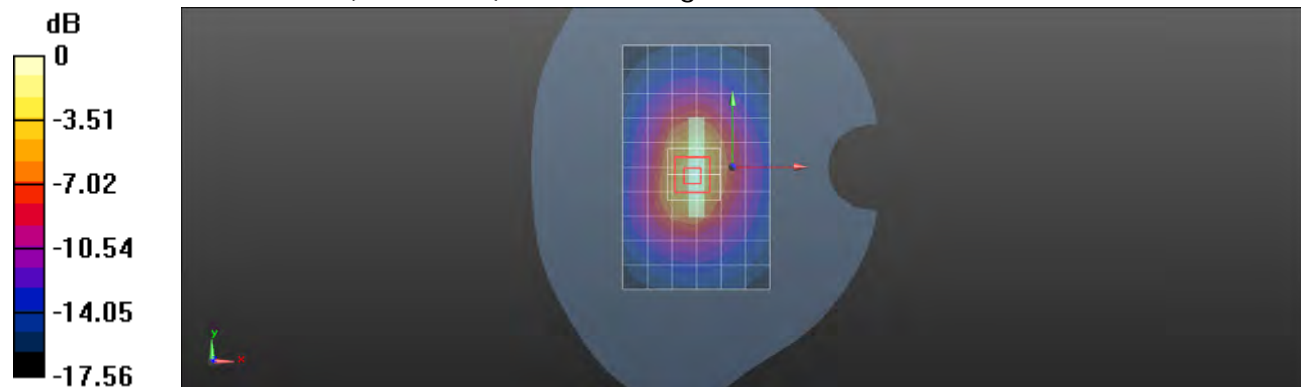
dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.125 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.600 W/kg

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



0 dB = 1.38 W/kg = 1.40 dBW/kg

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Date: 2013/5/8

Hotspot mode_Right side_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.312 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

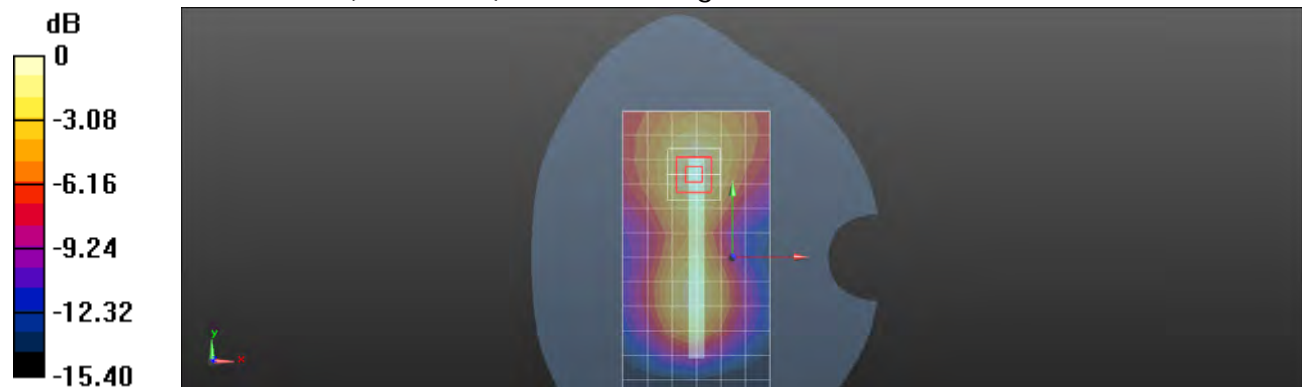
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.596 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.339 W/kg


 0 dB = 0.339 W/kg = -4.70 dBW/kg

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Date: 2013/5/8

Hotspot mode_Left side_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 51.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.325 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

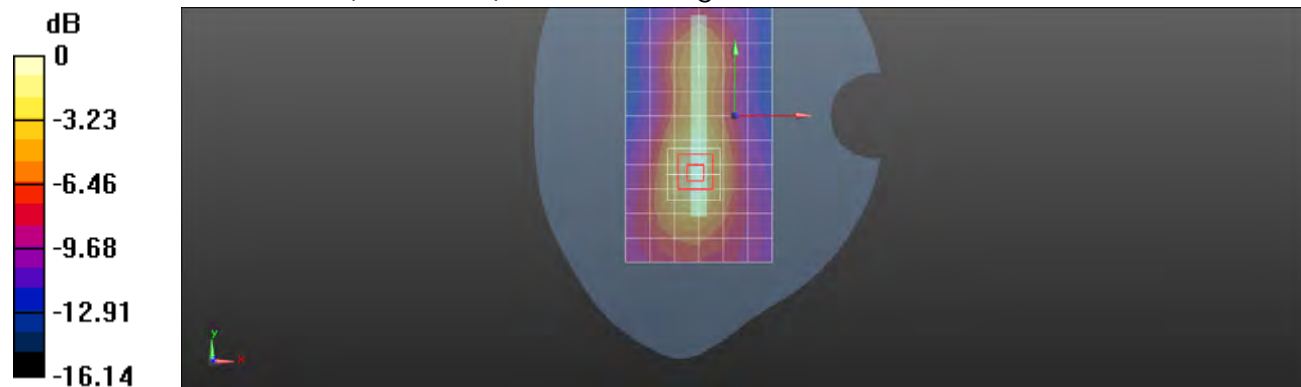
$dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.244 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.488 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.173 W/kg

Maximum value of SAR (measured) = 0.351 W/kg



0 dB = 0.351 W/kg = -4.55 dBW/kg

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Date: 2013/5/8

RE Cheek_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used : $f = 1852.4$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 41.222$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.799 W/kg

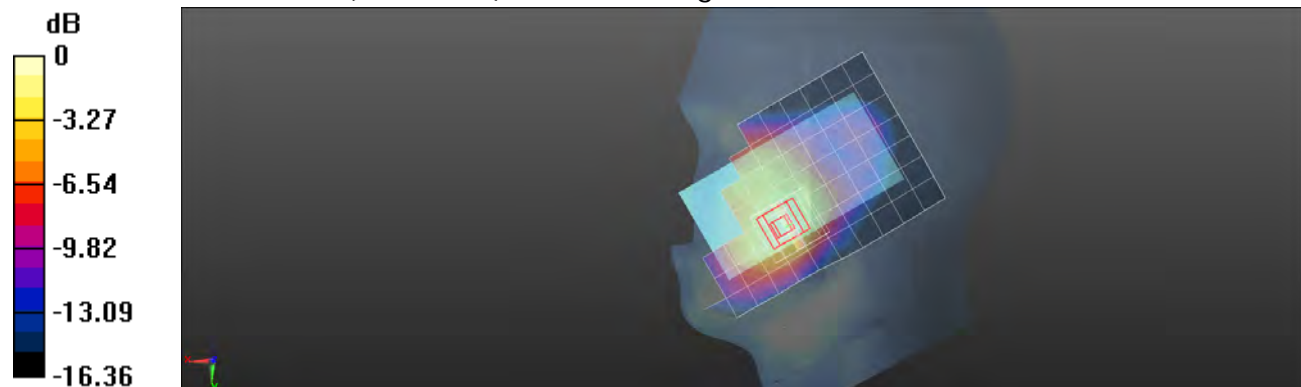
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.924 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.514 W/kg

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



0 dB = 0.927 W/kg = -0.33 dBW/kg

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Date: 2013/5/8

RE Cheek_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.836 W/kg

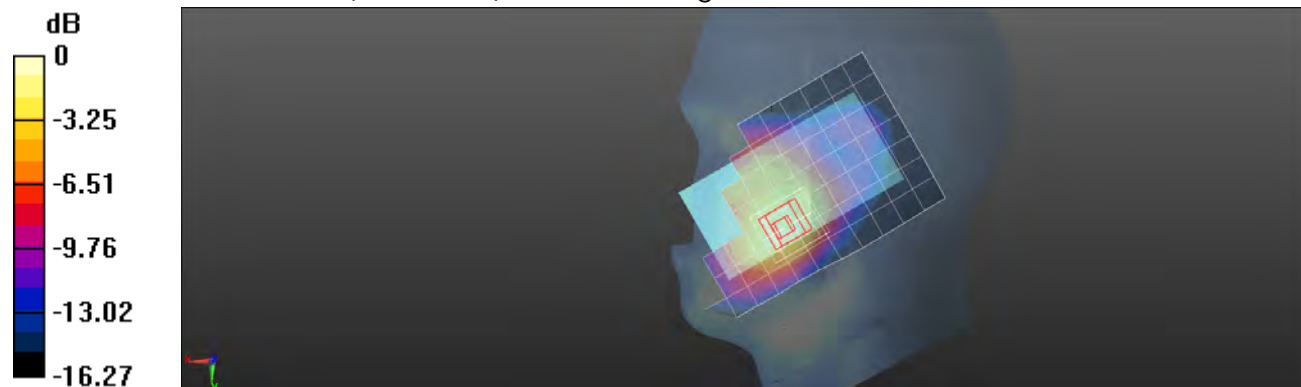
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.506 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.532 W/kg

Maximum value of SAR (measured) = 0.989 W/kg



0 dB = 0.989 W/kg = -0.05 dBW/kg

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Date: 2013/5/8

RE Cheek_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 41.068$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.971 W/kg

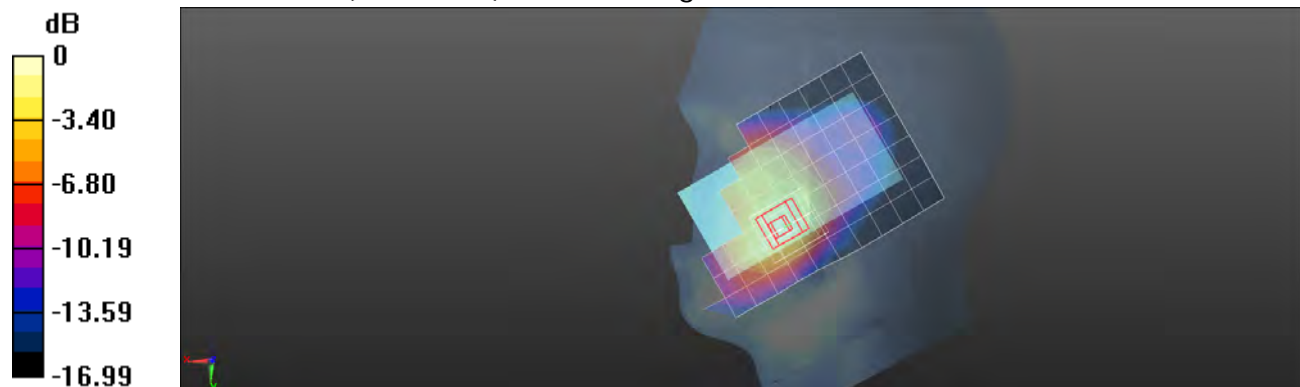
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.043 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.609 W/kg

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



0 dB = 1.13 W/kg = 0.53 dBW/kg

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Date: 2013/5/8

RE Cheek_CH9538_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 41.068$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.03 W/kg

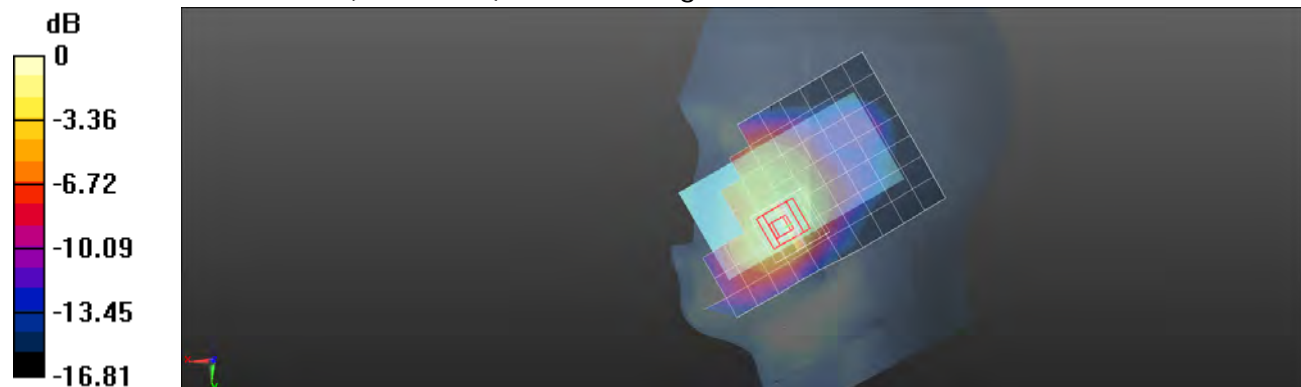
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.661 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.648 W/kg

Maximum value of SAR (measured) = 1.20 W/kg

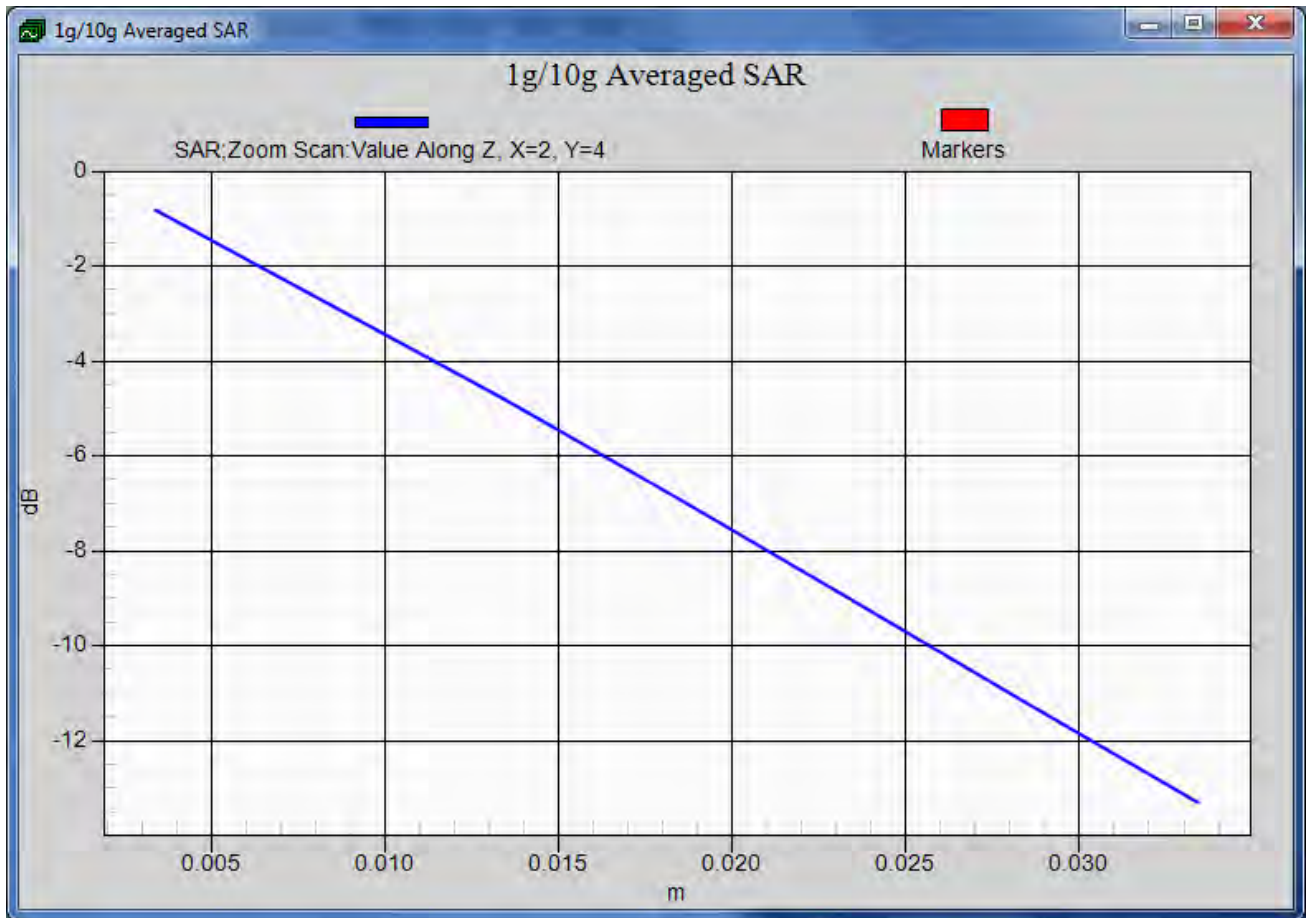


0 dB = 1.20 W/kg = 0.79 dBW/kg

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Date: 2013/5/8

RE Cheek_CH9538_repeated with external Memory card inside

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 41.068$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.944 W/kg

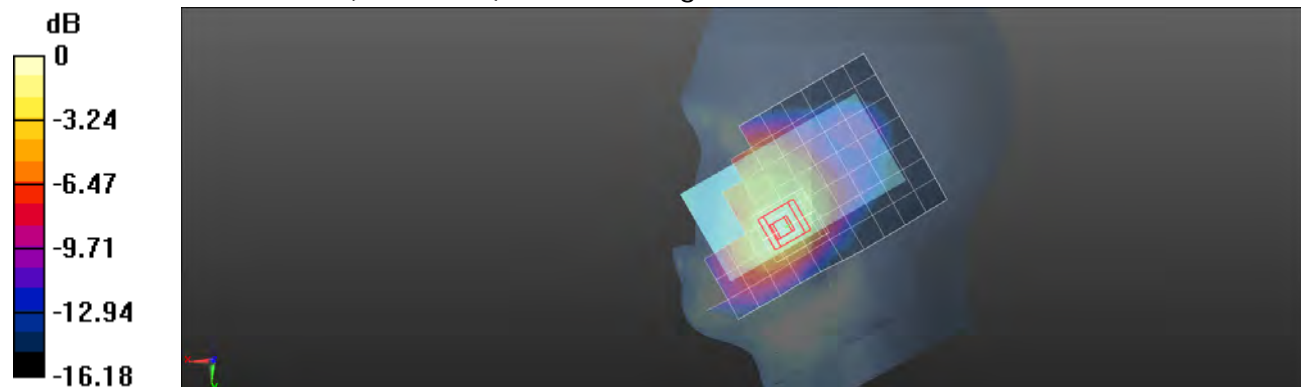
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.395 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.604 W/kg

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



0 dB = 1.13 W/kg = 0.53 dBW/kg

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Date: 2013/5/8

RE Tilt_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.224 W/kg

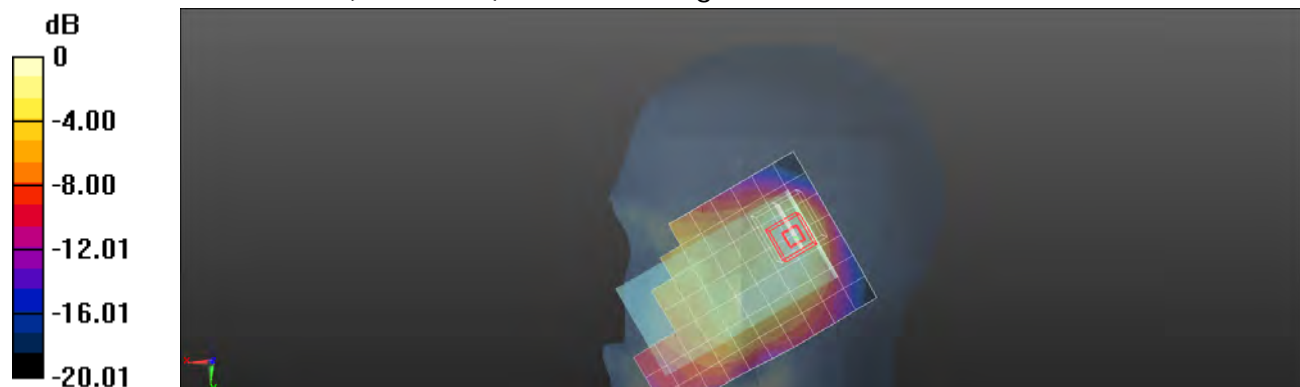
Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.698 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.237 W/kg



0 dB = 0.237 W/kg = -6.25 dBW/kg

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Date: 2013/5/8

LE Cheek_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.796 W/kg

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

Reference Value = 9.300 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.442 W/kg

Maximum value of SAR (measured) = 0.825 W/kg

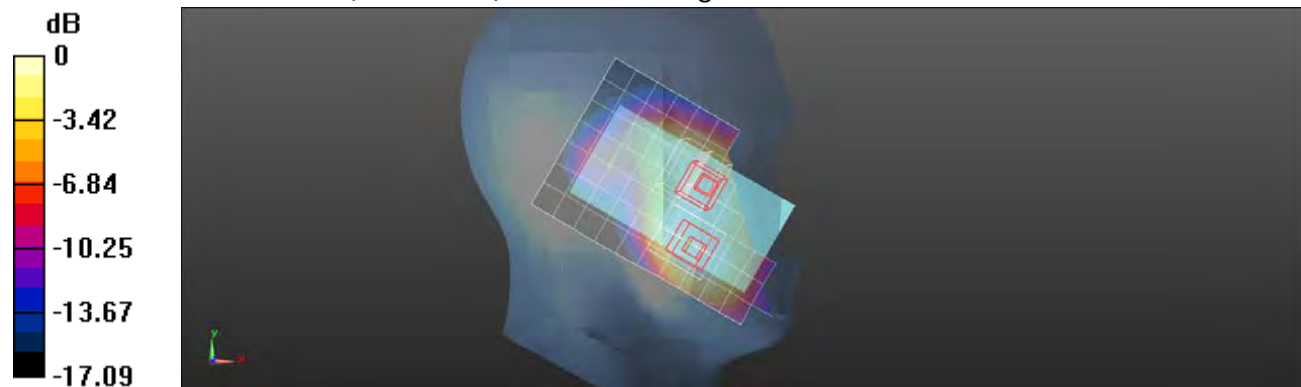
Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.300 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.717 W/kg

SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.333 W/kg

Maximum value of SAR (measured) = 0.548 W/kg



0 dB = 0.548 W/kg = -2.61 dBW/kg

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Date: 2013/5/8

LE Tilt_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.162$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.246 W/kg

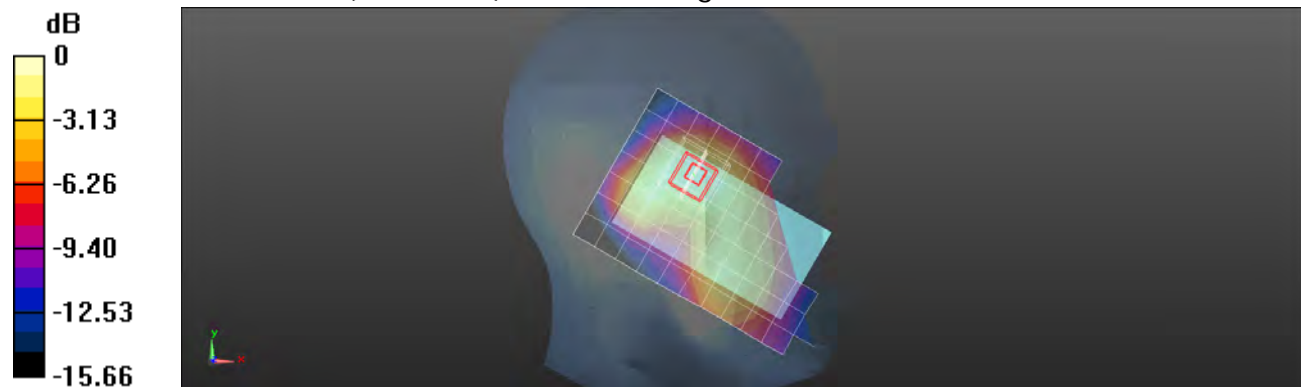
Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.575 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.346 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.260 W/kg



0 dB = 0.260 W/kg = -5.85 dBW/kg

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Date: 2013/5/8

Body-worn_Speech mode_Front side_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

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

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

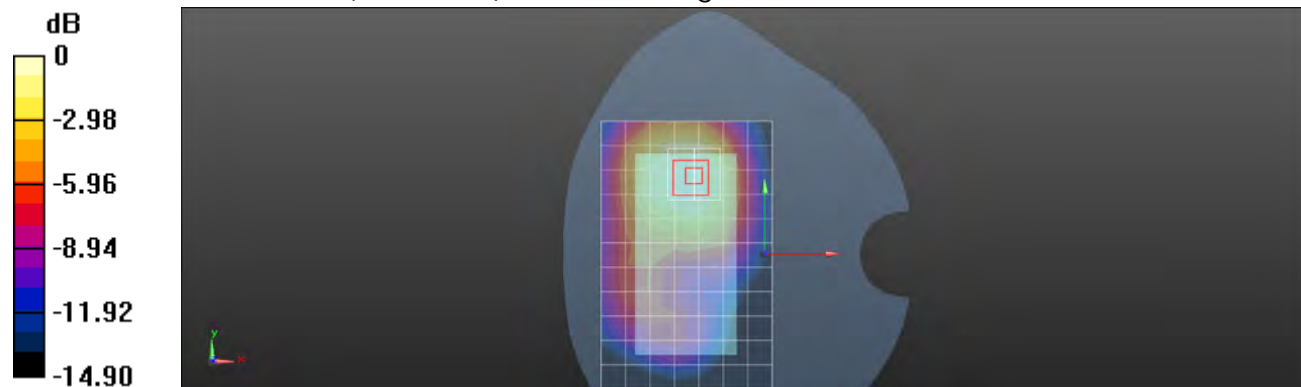
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.355 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.926 W/kg

SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 0.661 W/kg



0 dB = 0.661 W/kg = -1.80 dBW/kg

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Date: 2013/5/8

Body-worn_Speech mode_Back side_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.545 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

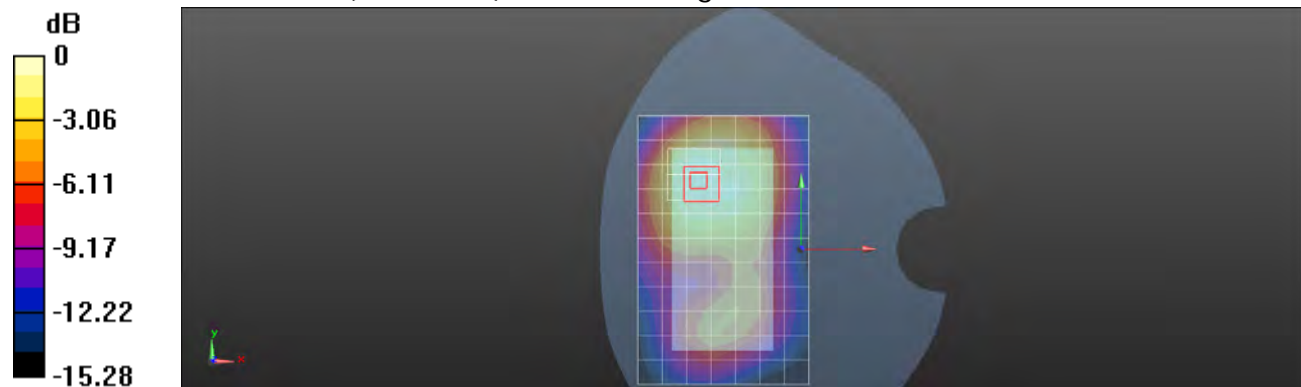
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.345 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.795 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.570 W/kg


 0 dB = 0.570 W/kg = -2.44 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used : $f = 1852.4 \text{ MHz}$; $\sigma = 1.481 \text{ S/m}$; $\epsilon_r = 51.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.992 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

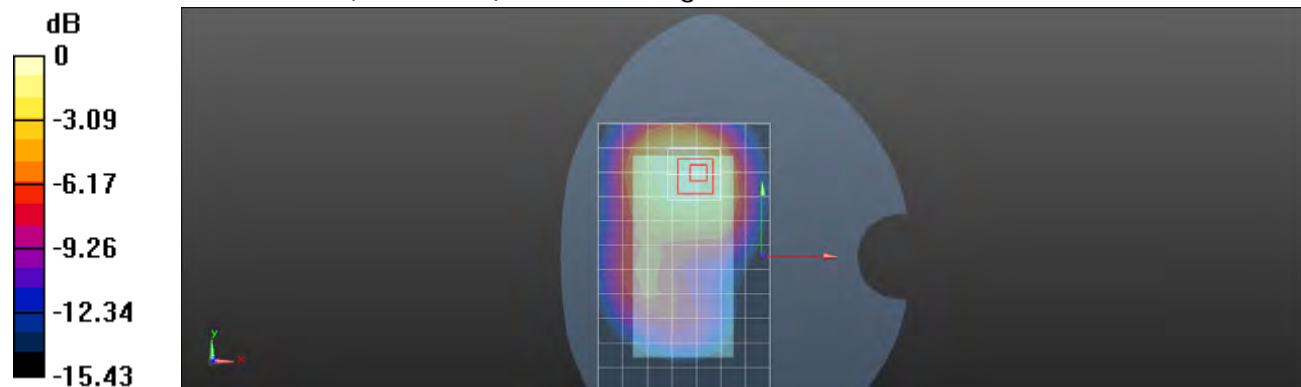
$dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.125 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.902 W/kg; SAR(10 g) = 0.555 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.04 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

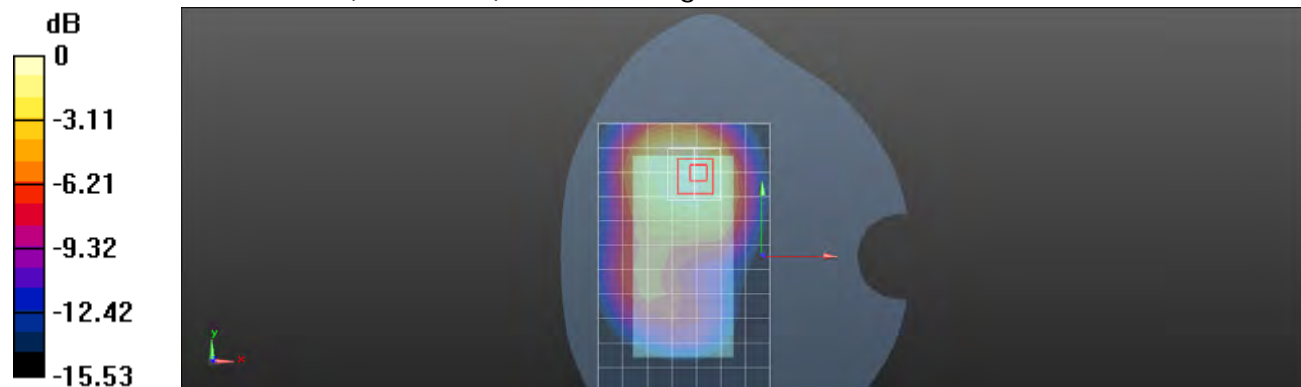
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.451 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.944 W/kg; SAR(10 g) = 0.577 W/kg

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



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 2013/5/8

Hotspot mode_Front side_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 51.337$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.610 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.968 W/kg; SAR(10 g) = 0.588 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/8

Hotspot mode_Back side_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

 Medium parameters used : $f = 1852.4 \text{ MHz}$; $\sigma = 1.481 \text{ S/m}$; $\epsilon_r = 51.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.996 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

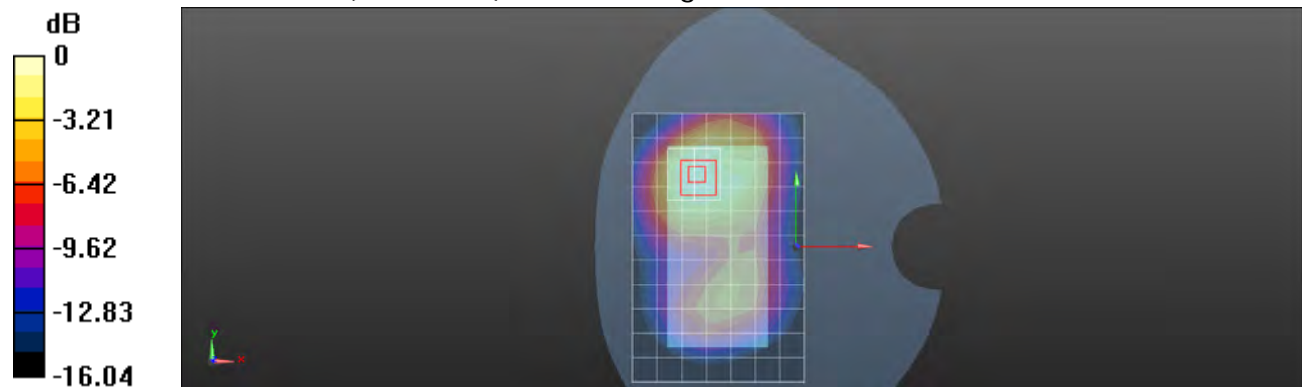
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.534 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.581 W/kg

Maximum value of SAR (measured) = 1.09 W/kg


 $0 \text{ dB} = 1.09 \text{ W/kg} = 0.37 \text{ dBW/kg}$

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Date: 2013/5/8

Hotspot mode_Back side_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.04 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

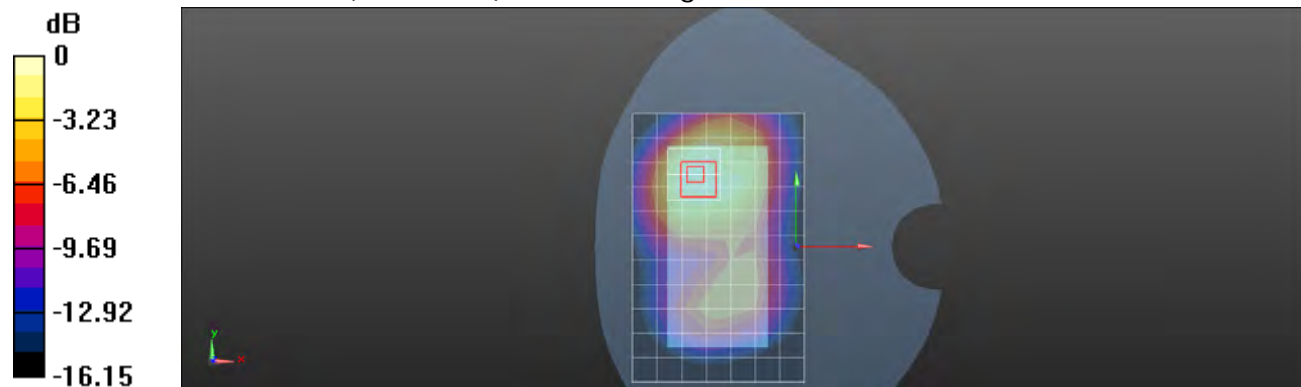
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.459 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.611 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

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Date: 2013/5/8

Hotspot mode_Back side_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 51.337$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

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

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

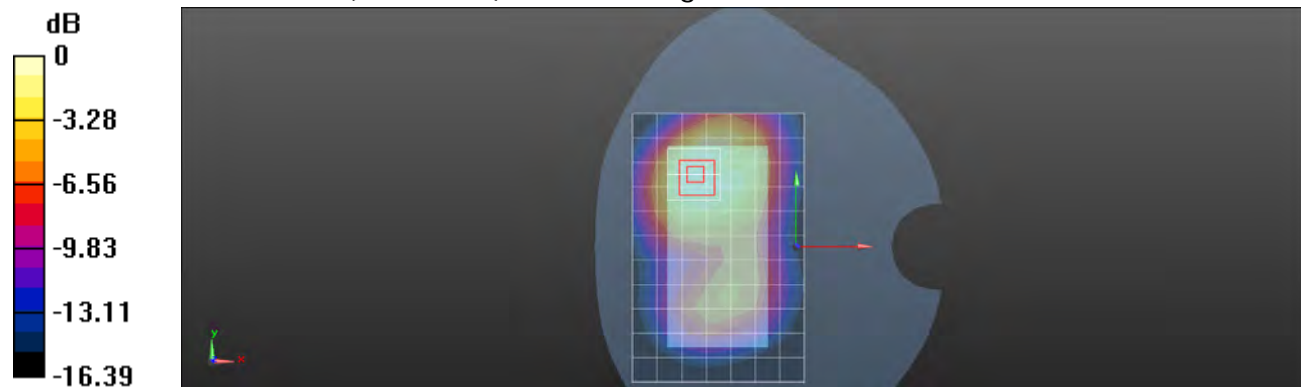
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.589 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.621 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

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Date: 2013/5/8

Hotspot mode_Bottom side_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

 Medium parameters used : $f = 1852.4 \text{ MHz}$; $\sigma = 1.481 \text{ S/m}$; $\epsilon_r = 51.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

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

Maximum value of SAR (measured) = 0.924 W/kg

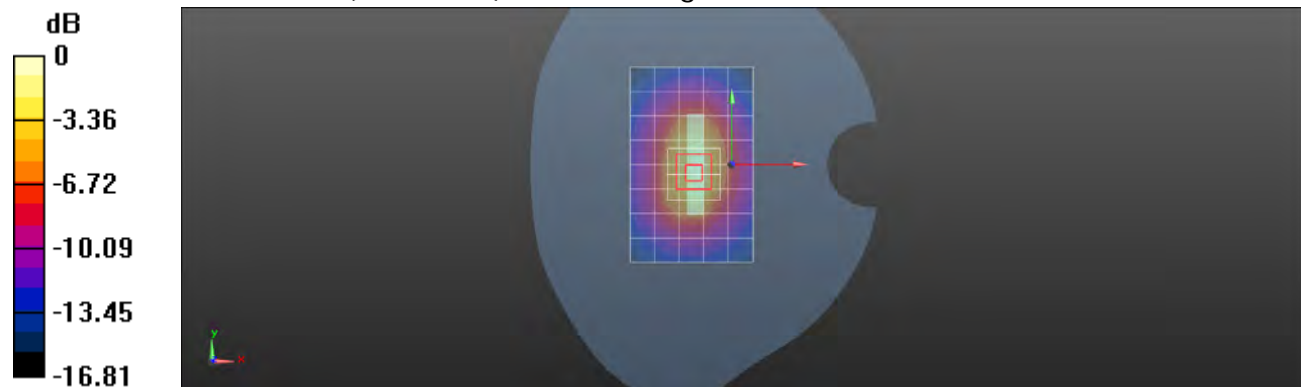
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.515 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.485 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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Date: 2013/5/8

Hotspot mode_Bottom side_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.974 W/kg

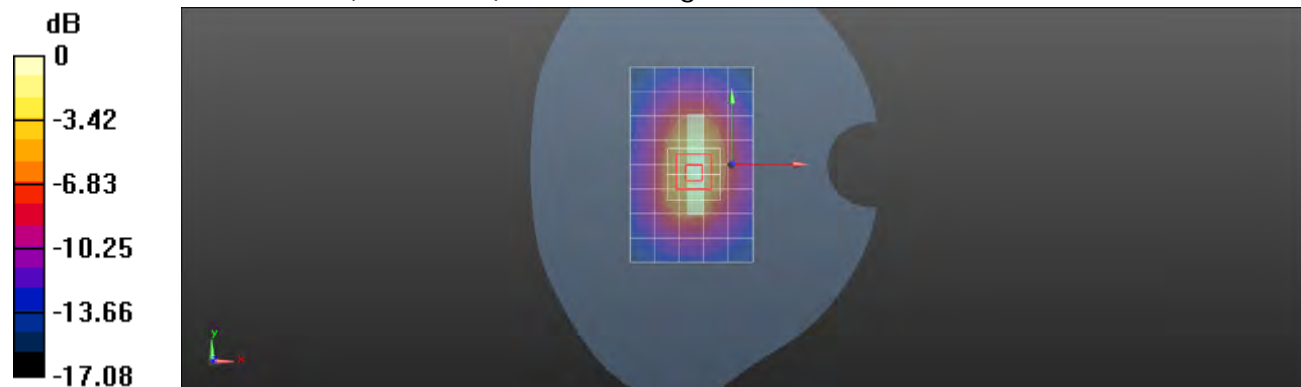
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.787 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.967 W/kg; SAR(10 g) = 0.515 W/kg

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



0 dB = 1.37 W/kg = 1.37 dBW/kg

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Date: 2013/5/8

Hotspot mode_Bottom side_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 51.337$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.05 W/kg

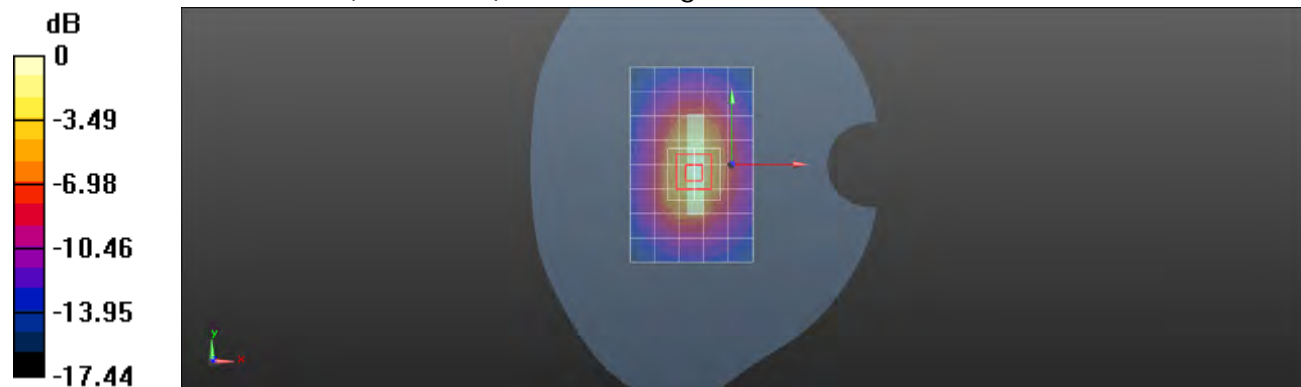
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.876 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.562 W/kg

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

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Date: 2013/5/8

Hotspot mode_Bottom side_CH9538_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 51.337$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.26 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

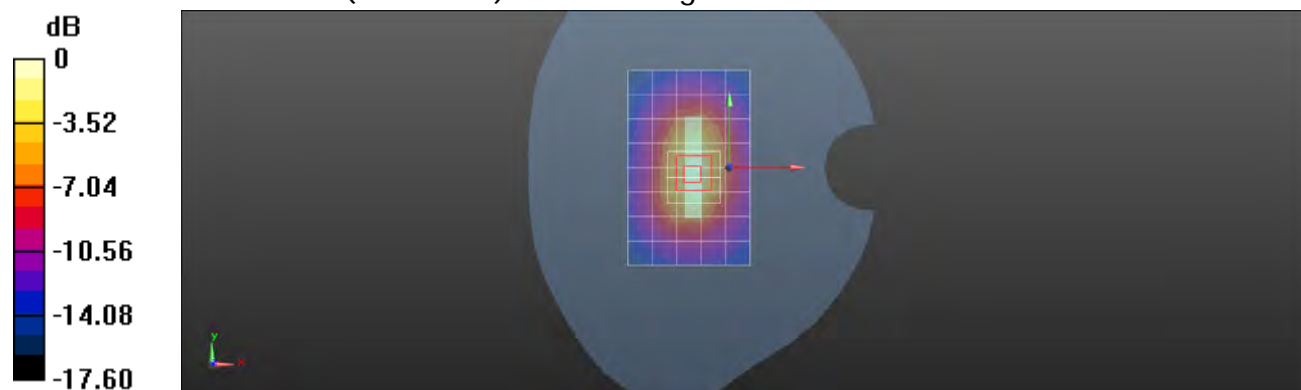
dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.367 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.565 W/kg

Maximum value of SAR (measured) = 1.51 W/kg



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Date: 2013/5/8

Hotspot mode_Right side_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.320 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

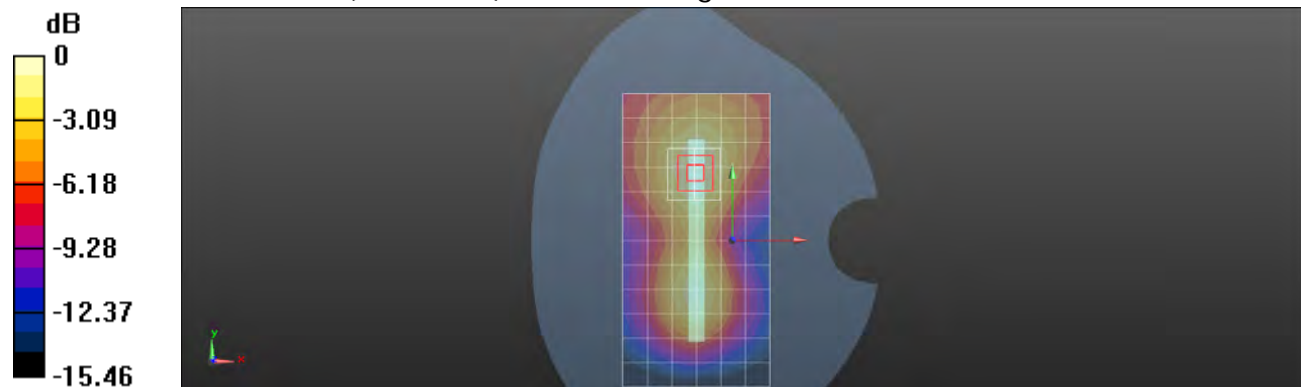
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.468 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.327 W/kg



0 dB = 0.327 W/kg = -4.85 dBW/kg

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Date: 2013/5/8

Hotspot mode_Left side_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 51.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.292 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

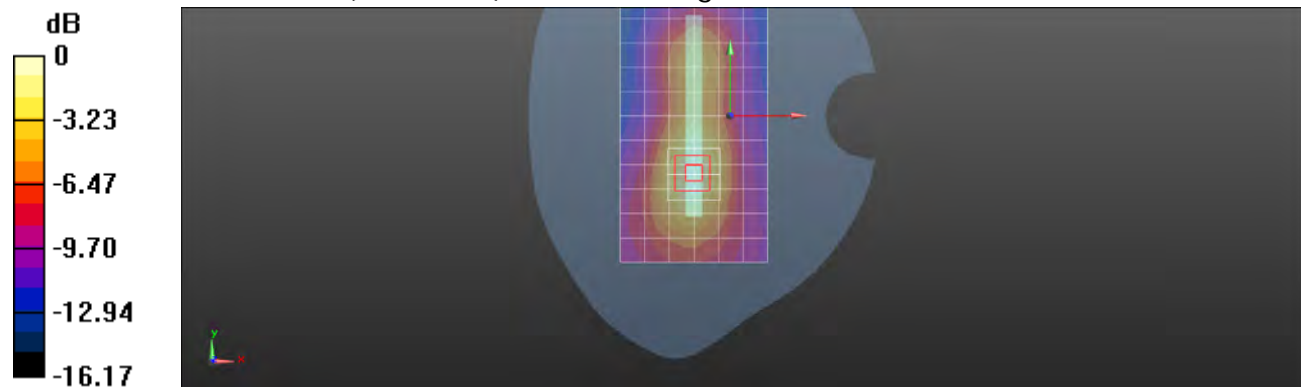
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.489 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.421 W/kg

SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.149 W/kg

Maximum value of SAR (measured) = 0.299 W/kg


 0 dB = 0.299 W/kg = -5.24 dBW/kg

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Date: 2013/5/6

RE Cheek_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

 Medium parameters used : $f = 1712.4$ MHz; $\sigma = 1.333$ S/m; $\epsilon_r = 41.825$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.854 W/kg

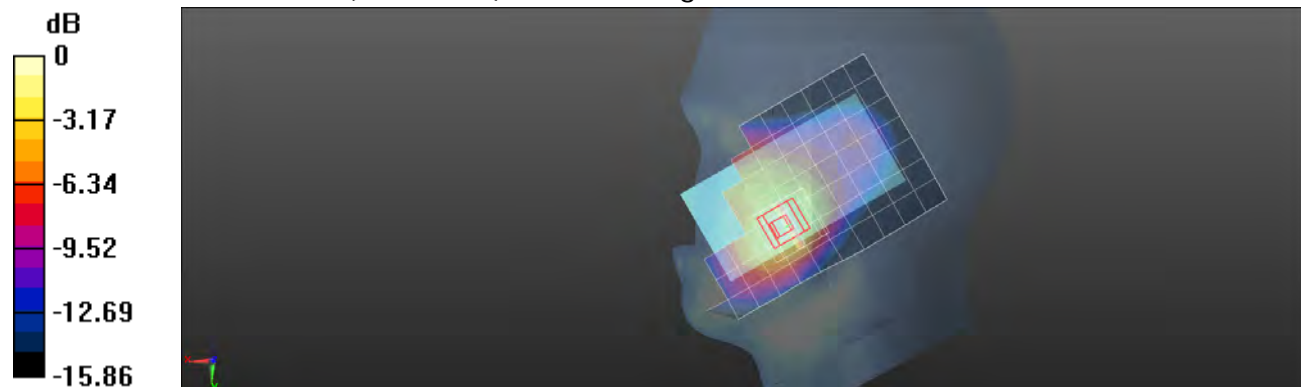
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.811 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.899 W/kg; SAR(10 g) = 0.568 W/kg.

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2013/5/6

RE Cheek_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 41.774$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.913 W/kg

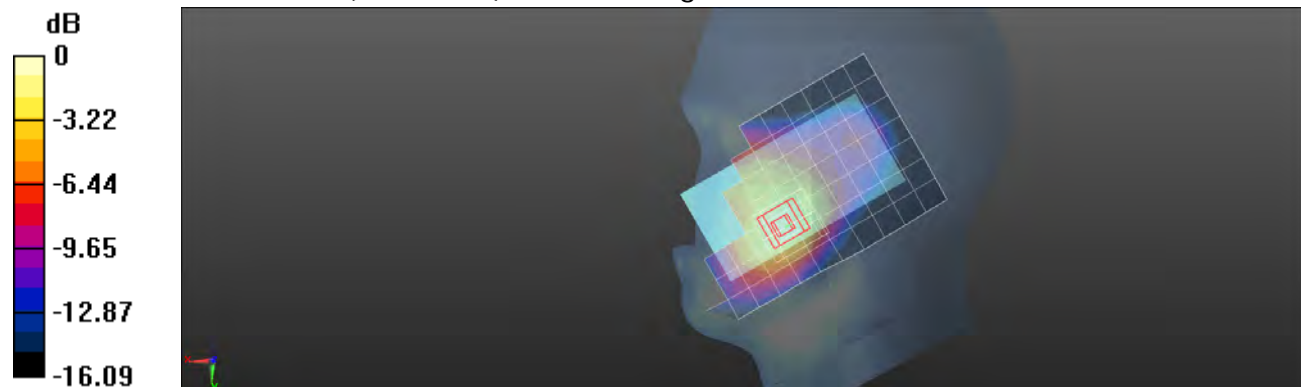
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.350 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.596 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/6

RE Cheek_CH1412_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 41.774$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.921 W/kg

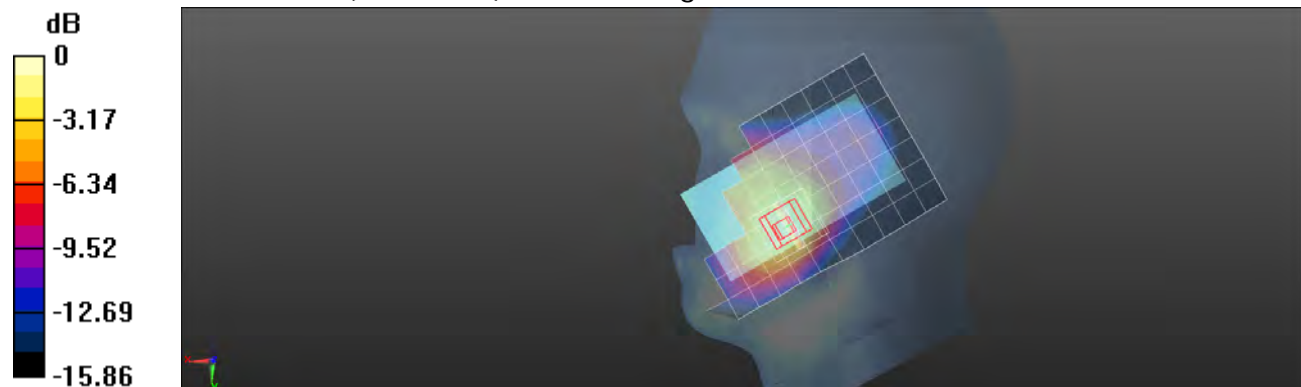
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.051 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.586 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/6

RE Cheek_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.367$ S/m; $\epsilon_r = 41.71$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.818 W/kg

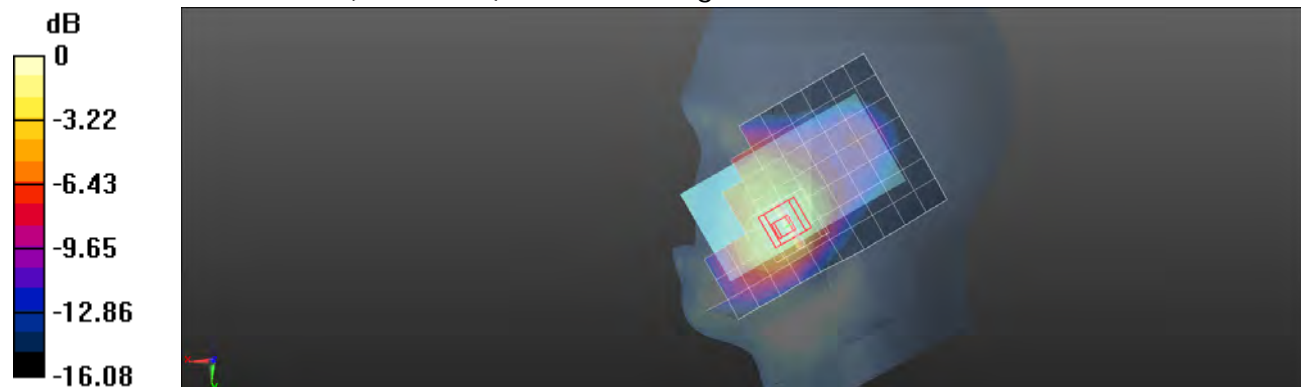
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.788 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.530 W/kg

Maximum value of SAR (measured) = 0.969 W/kg



0 dB = 0.969 W/kg = -0.14 dBW/kg

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Date: 2013/5/6

RE Tilt_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 41.774$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.299 W/kg

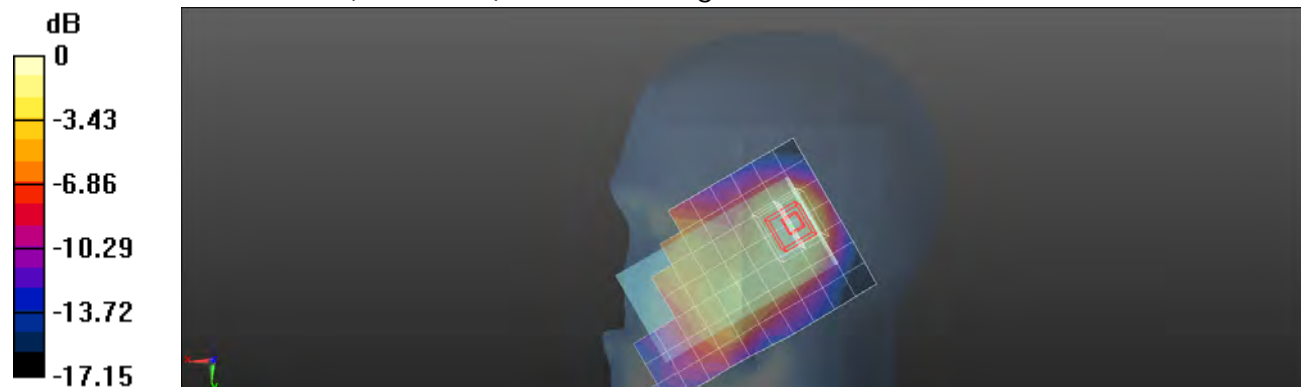
Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.647 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.418 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.312 W/kg



0 dB = 0.312 W/kg = -5.06 dBW/kg

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Date: 2013/5/6

LE Cheek_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 41.774$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.838 W/kg

Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.514 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.452 W/kg

Maximum value of SAR (measured) = 0.829 W/kg

Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.514 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.726 W/kg

SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (measured) = 0.577 W/kg

Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 2: Measurement grid:

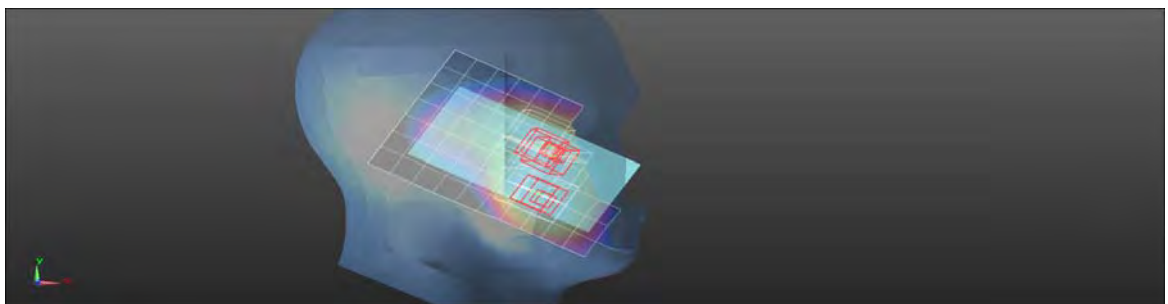
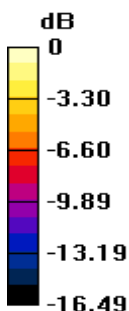
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.514 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.726 W/kg

SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.344 W/kg.

Maximum value of SAR (measured) = 0.571 W/kg



0 dB = 0.571 W/kg = -2.43 dBW/kg

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Date: 2013/5/6

LE Tilt_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 41.774$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.282 W/kg

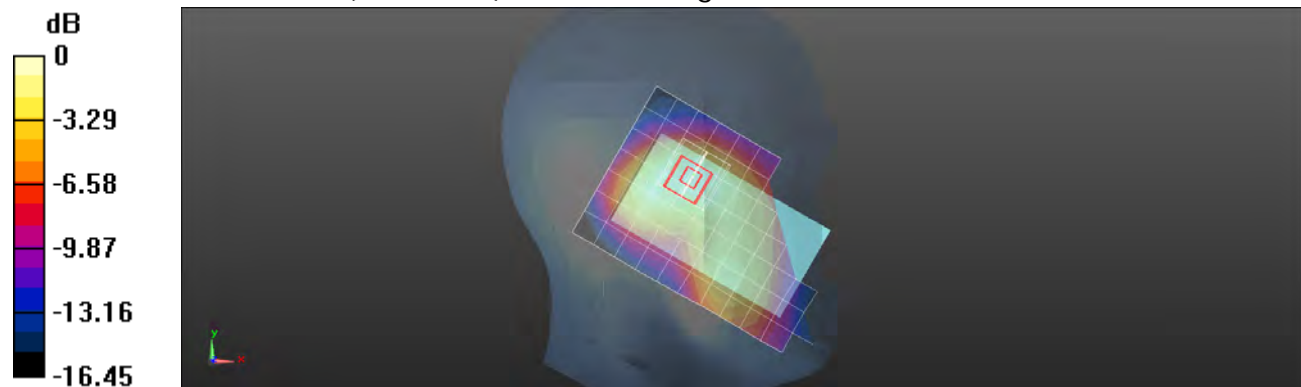
Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.816 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.174 W/kg

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg

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Date: 2013/5/6

Body-worn_Speech mode_Front side_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.552 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

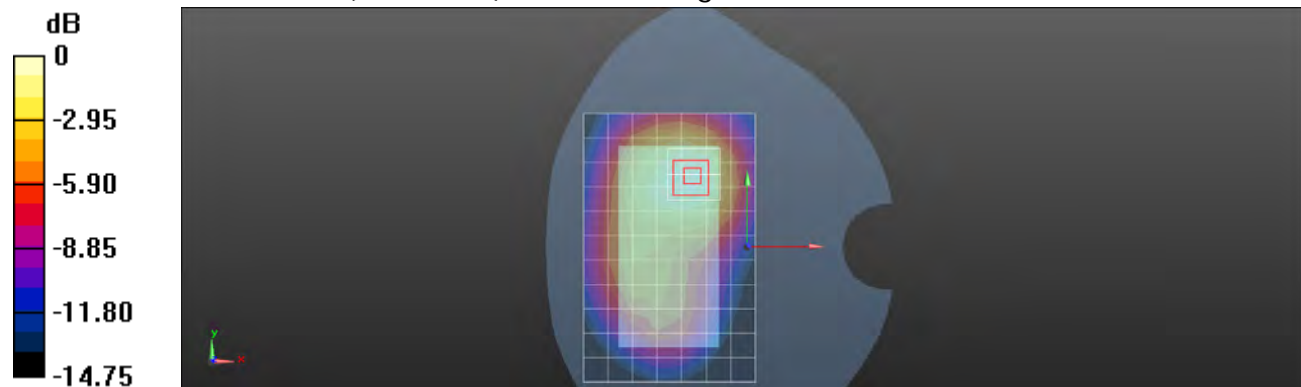
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.121 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 0.594 W/kg


 0 dB = 0.594 W/kg = -2.26 dBW/kg

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Date: 2013/5/6

Body-worn_Speech mode_Back side_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.517 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

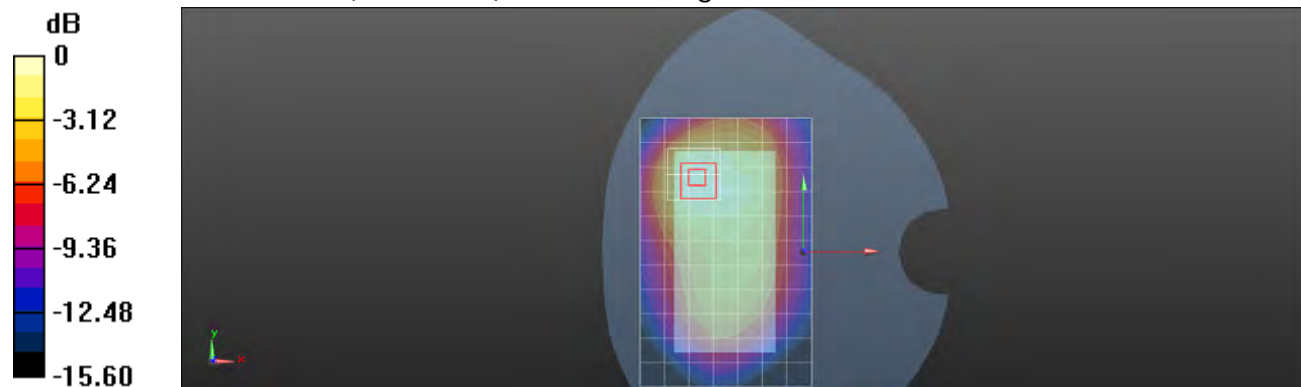
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.537 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.307 W/kg

Maximum value of SAR (measured) = 0.560 W/kg



0 dB = 0.560 W/kg = -2.52 dBW/kg

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Date: 2013/5/6

Hotspot mode_Front side_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

 Medium parameters used : $f = 1712.4$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 52.796$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

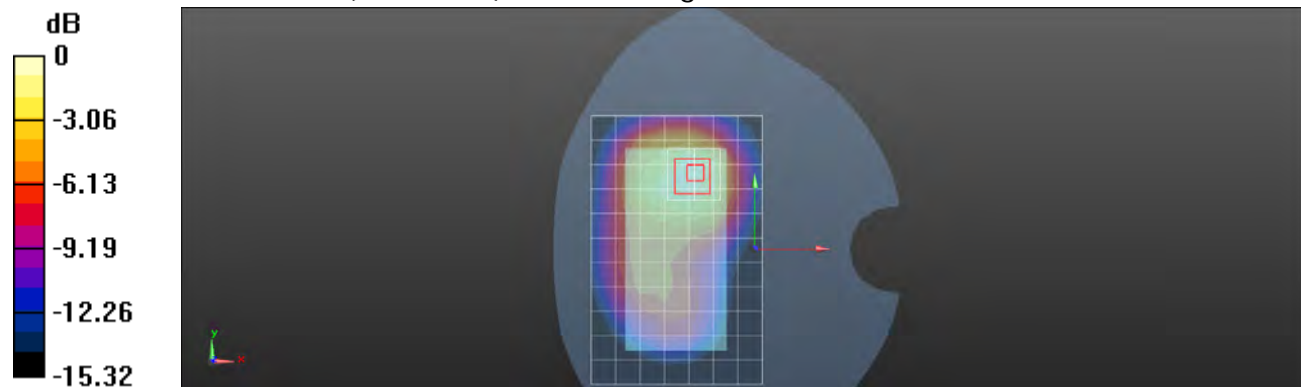
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.918 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.611 W/kg

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


 $0 \text{ dB} = 1.13 \text{ W/kg} = 0.53 \text{ dBW/kg}$

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Date: 2013/5/6

Hotspot mode_Front side_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.10 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

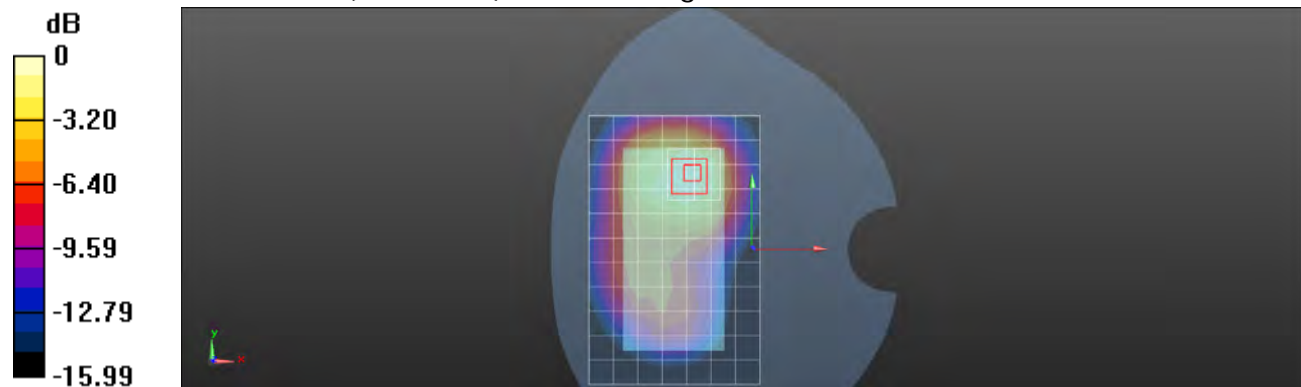
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.951 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.613 W/kg

Maximum value of SAR (measured) = 1.15 W/kg


 $0 \text{ dB} = 1.15 \text{ W/kg} = 0.61 \text{ dBW/kg}$

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Date: 2013/5/6

Hotspot mode_Front side_CH1412_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.04 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

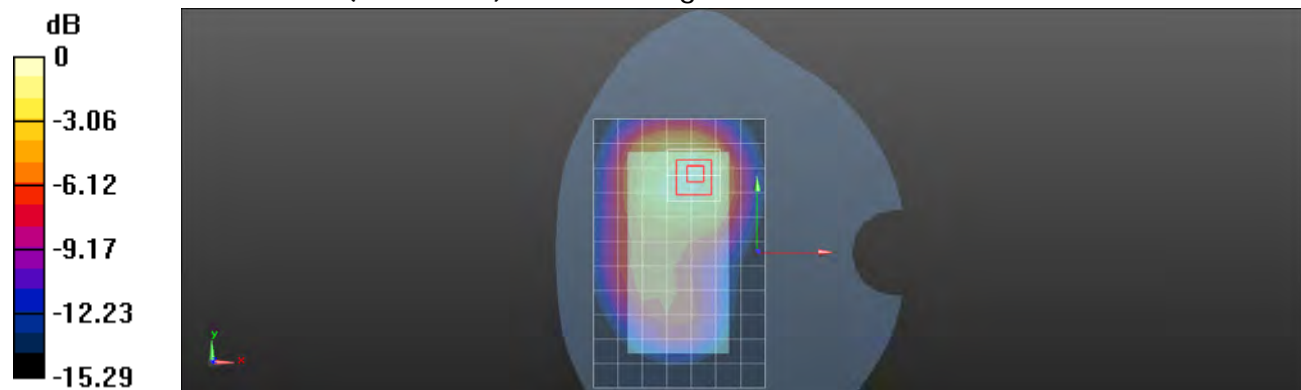
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.454 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.578 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/6

Hotspot mode_Front side_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.48$ S/m; $\epsilon_r = 52.702$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.02 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

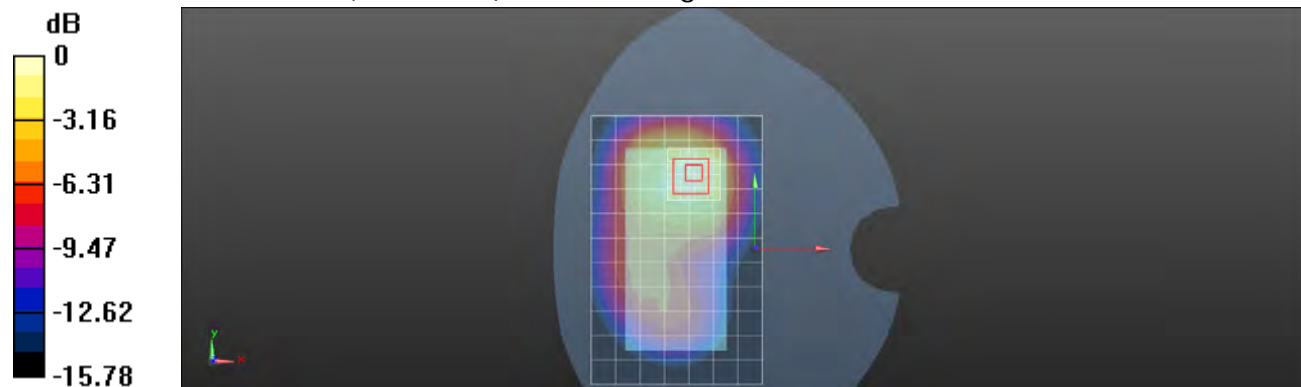
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.708 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.570 W/kg

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



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 2013/5/6

Hotspot mode_Back side_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

 Medium parameters used : $f = 1712.4$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 52.796$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.938 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

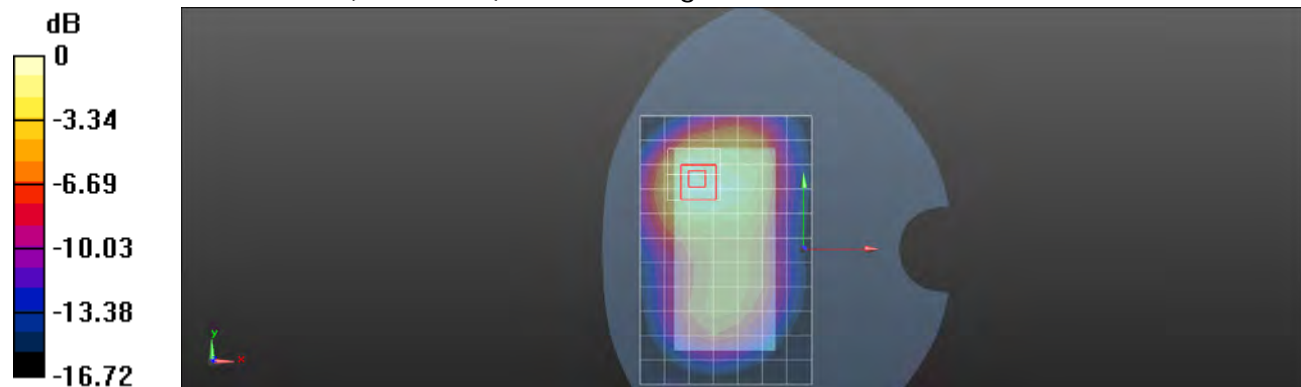
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.791 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.558 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/6

Hotspot mode_Back side_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.908 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

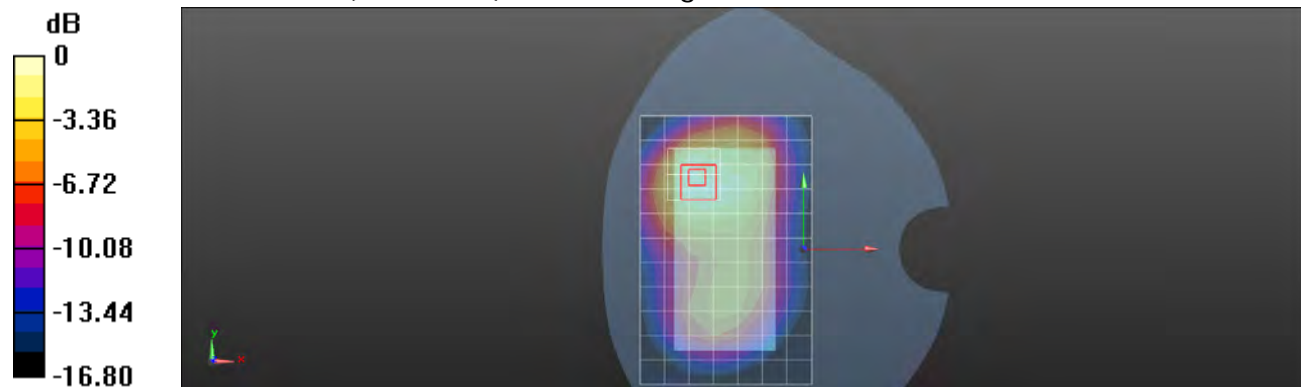
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.817 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.891 W/kg; SAR(10 g) = 0.547 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2013/5/6

Hotspot mode_Back side_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.48$ S/m; $\epsilon_r = 52.702$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.917 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

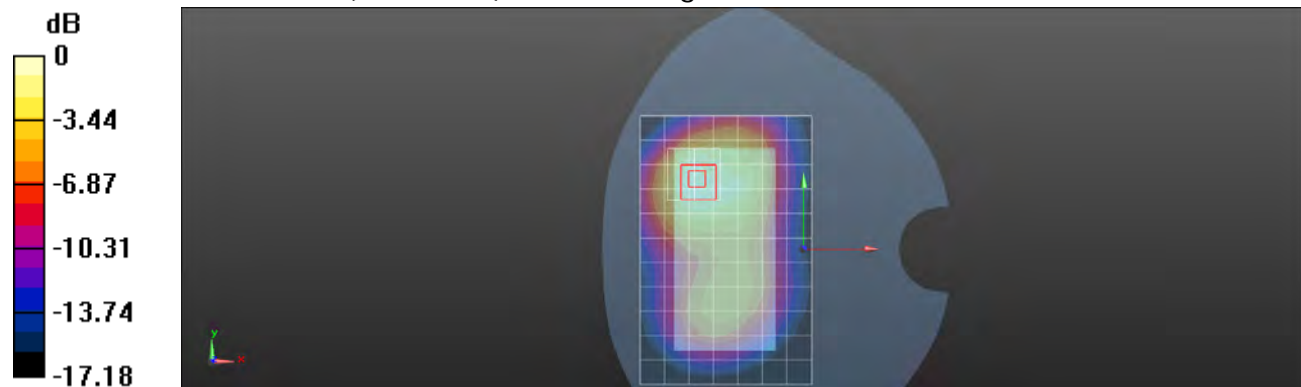
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.427 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.887 W/kg; SAR(10 g) = 0.541 W/kg

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

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Member of SGS Group

Date: 2013/5/6

Hotspot mode_Bottom side_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

 Medium parameters used : $f = 1712.4$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 52.796$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.683 W/kg

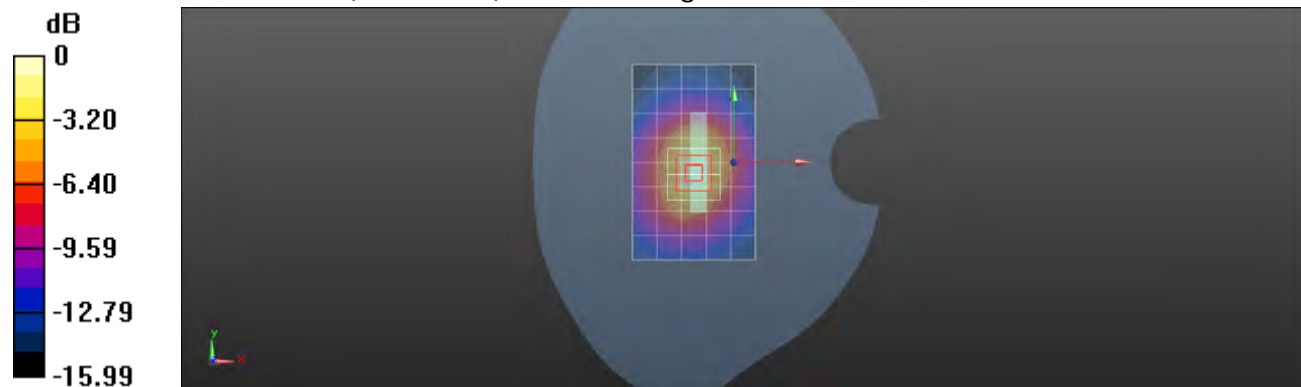
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.264 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.471 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/6

Hotspot mode_Bottom side_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.770 W/kg

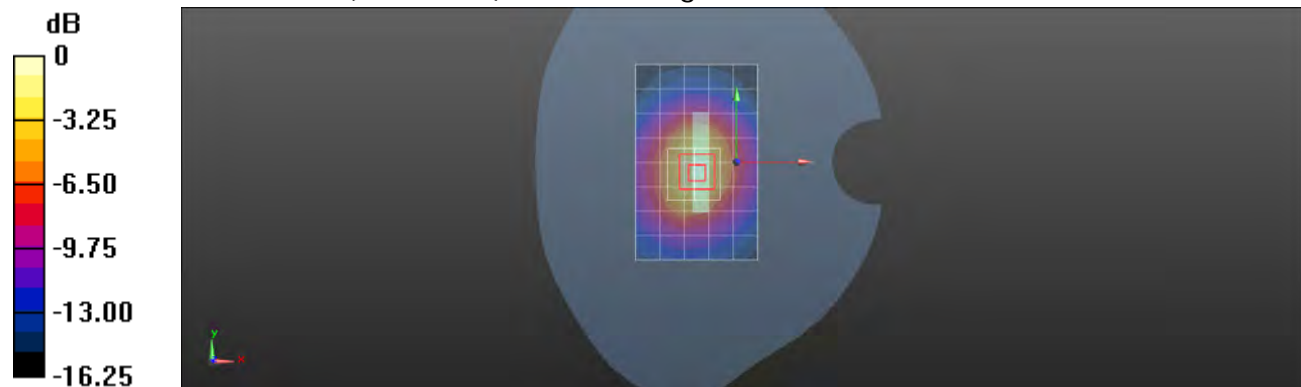
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.970 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.939 W/kg; SAR(10 g) = 0.521 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2013/5/6

Hotspot mode_Bottom side_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.48$ S/m; $\epsilon_r = 52.702$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.727 W/kg

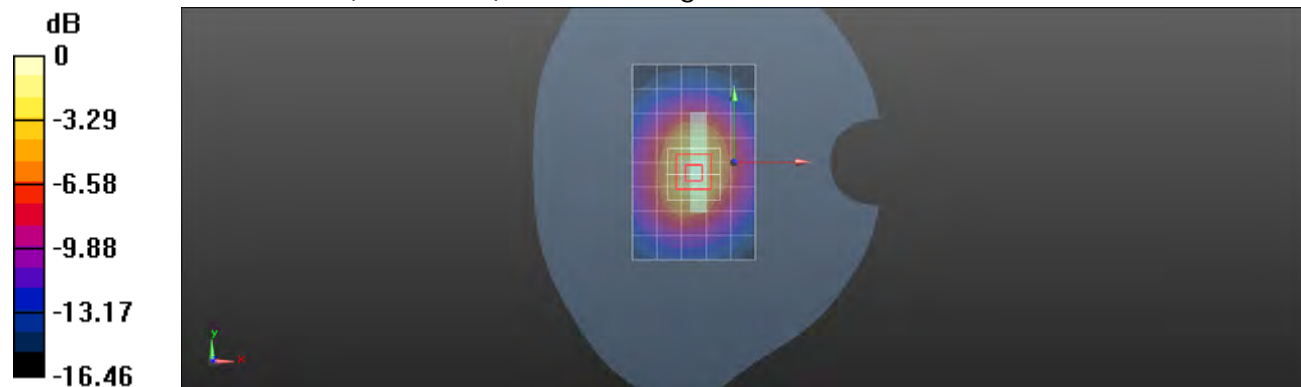
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.581 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.913 W/kg; SAR(10 g) = 0.504 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

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Date: 2013/5/6

Hotspot mode_Right side_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.255 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

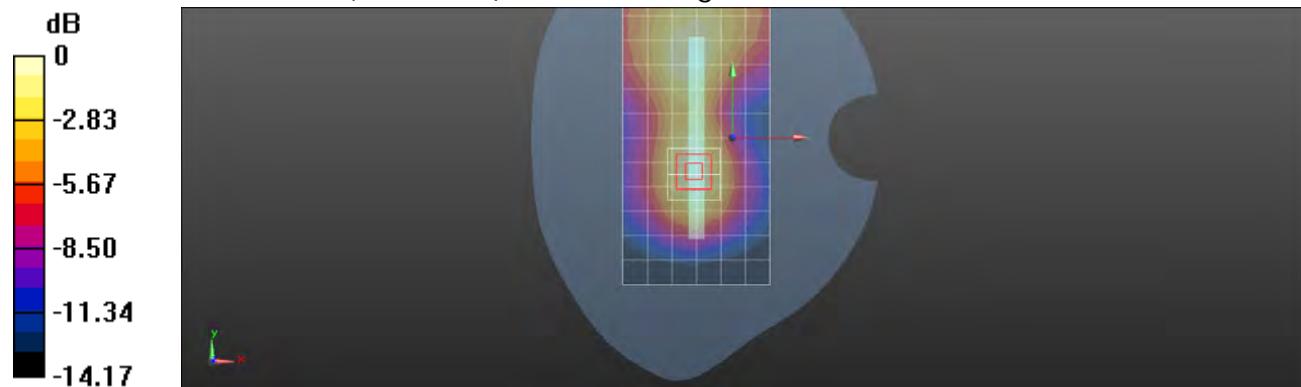
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.854 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.362 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.264 W/kg


 0 dB = 0.264 W/kg = -5.78 dBW/kg

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Date: 2013/5/6

Hotspot mode_Left side_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used : $f = 1732.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

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

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

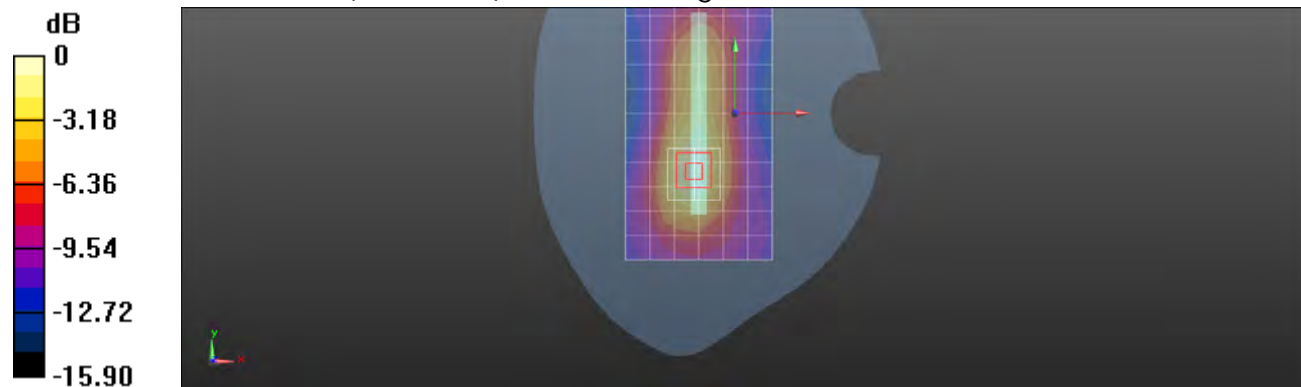
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.986 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.320 W/kg



0 dB = 0.320 W/kg = -4.95 dBW/kg

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Date: 2013/5/4

RE Cheek_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.360 W/kg

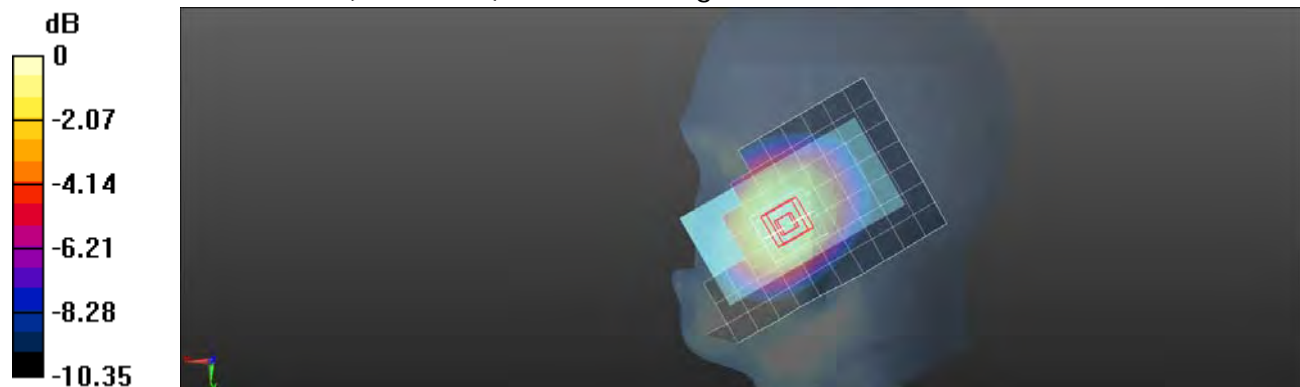
Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.435 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.375 W/kg



0 dB = 0.375 W/kg = -4.26 dBW/kg

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Date: 2013/5/4

RE Tilt_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

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

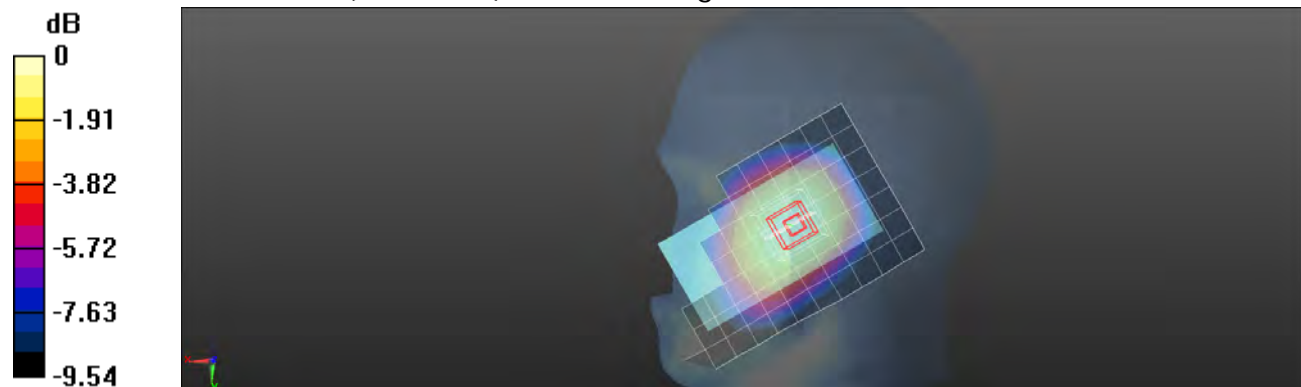
Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.218 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.264 W/kg



0 dB = 0.264 W/kg = -5.78 dBW/kg

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Date: 2013/5/4

LE Cheek_CH4132

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used : $f = 826.4 \text{ MHz}$; $\sigma = 0.883 \text{ S/m}$; $\epsilon_r = 41.596$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.408 W/kg

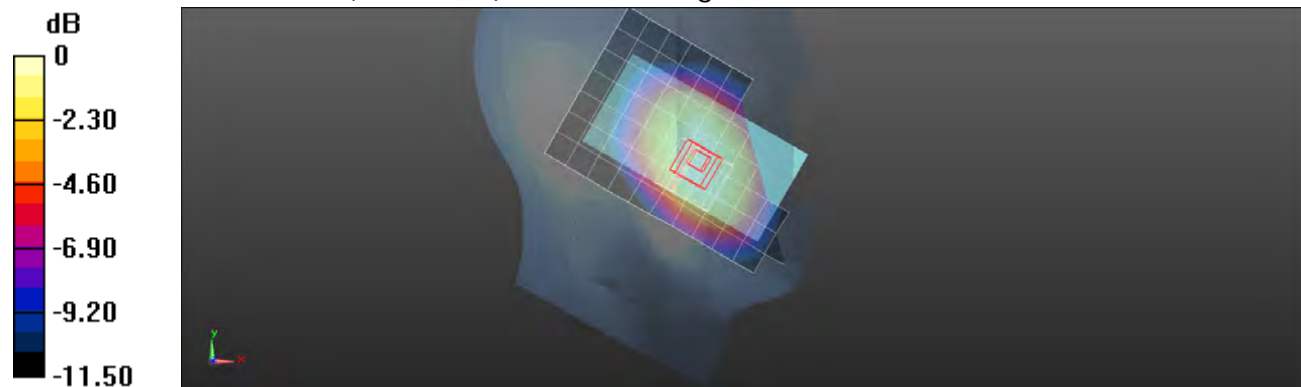
Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.041 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.514 W/kg

SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 0.412 W/kg



0 dB = 0.412 W/kg = -3.85 dBW/kg

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Date: 2013/5/4

LE Cheek_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.369 W/kg

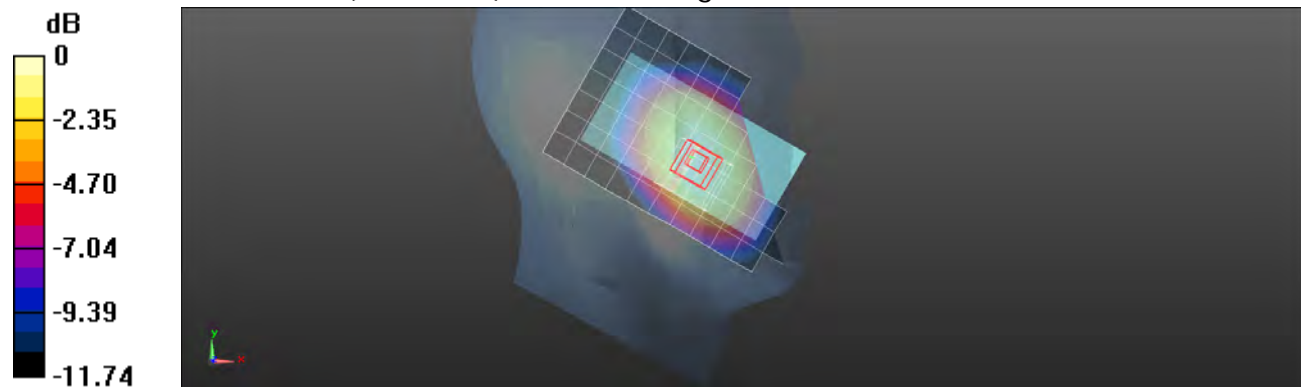
Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.310 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 0.379 W/kg



0 dB = 0.379 W/kg = -4.21 dBW/kg

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Date: 2013/5/4

LE Cheek_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 41.345$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.551 W/kg

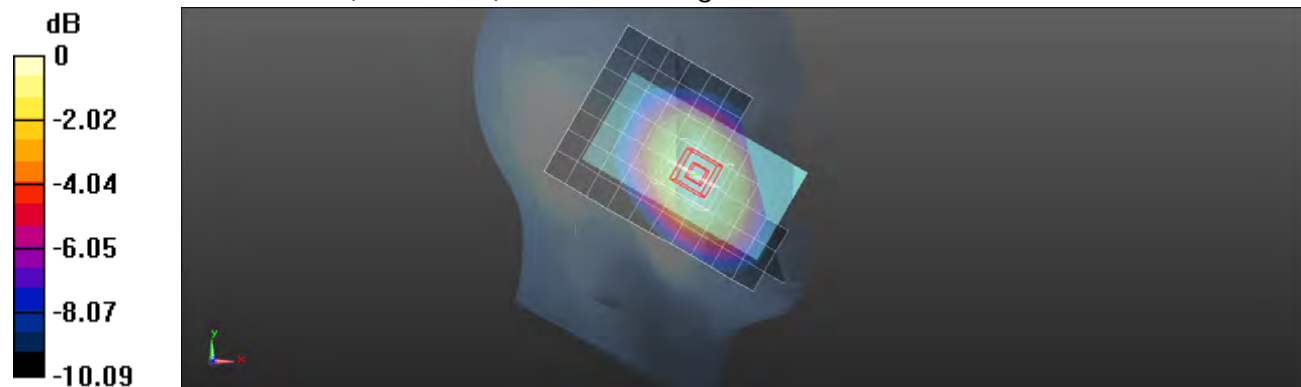
Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.353 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 0.570 W/kg



0 dB = 0.570 W/kg = -2.44 dBW/kg

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Date: 2013/5/4

LE Tilt_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.466$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.276 W/kg

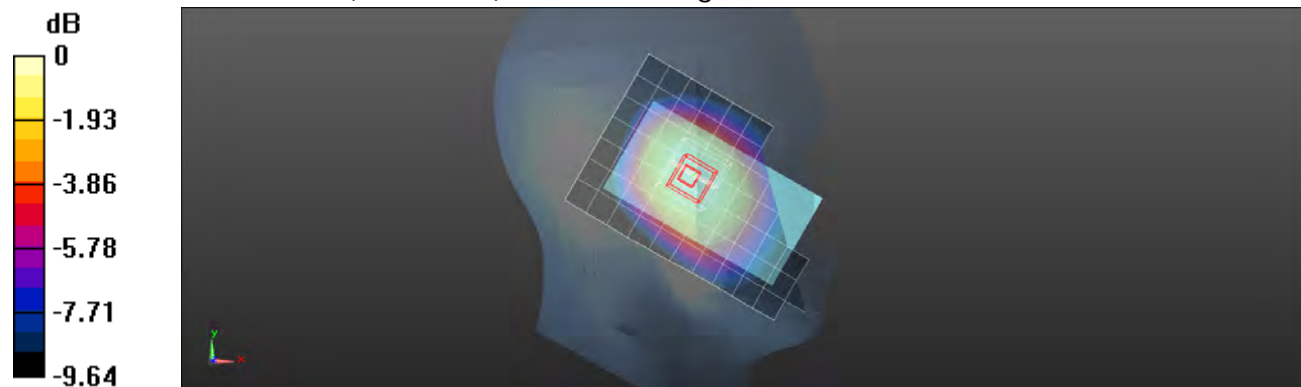
Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.862 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 0.284 W/kg



0 dB = 0.284 W/kg = -5.47 dBW/kg

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Date: 2013/5/4

Body-worn_Speech mode_Front side_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.240 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

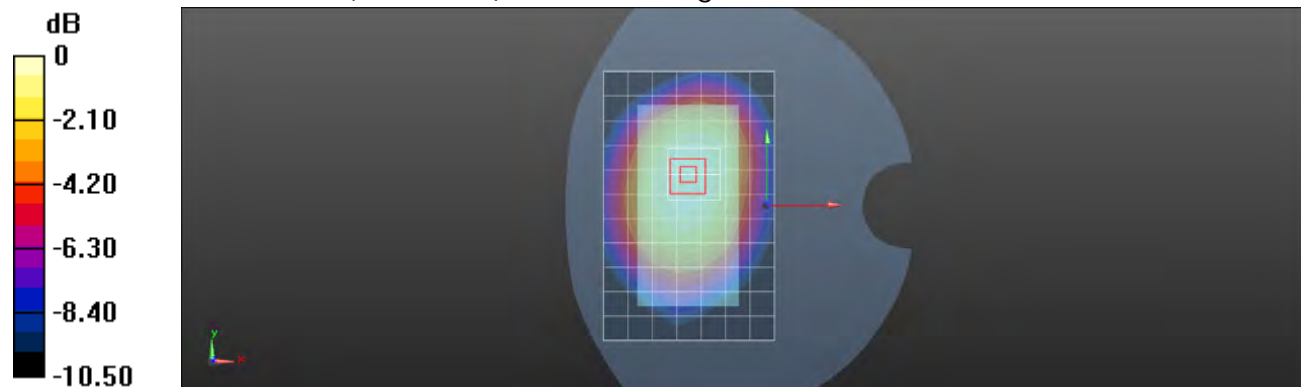
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.038 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.292 W/kg

SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.167 W/kg

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



0 dB = 0.245 W/kg = -6.11 dBW/kg

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Date: 2013/5/4

Body-worn_Speech mode_Back side_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.320 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

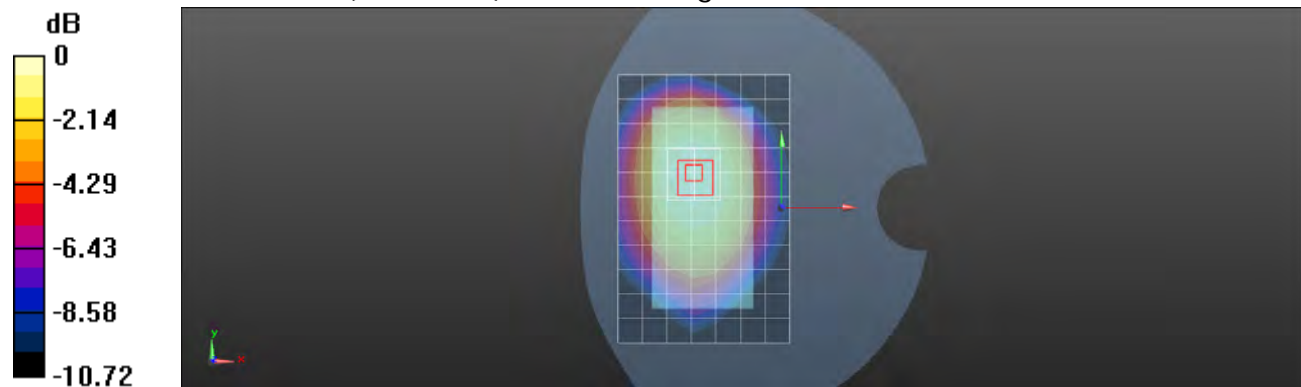
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.397 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.212 W/kg

Maximum value of SAR (measured) = 0.319 W/kg


 0 dB = 0.319 W/kg = -4.96 dBW/kg

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Member of SGS Group

Date: 2013/5/4

Hotspot mode_Front side_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.487 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

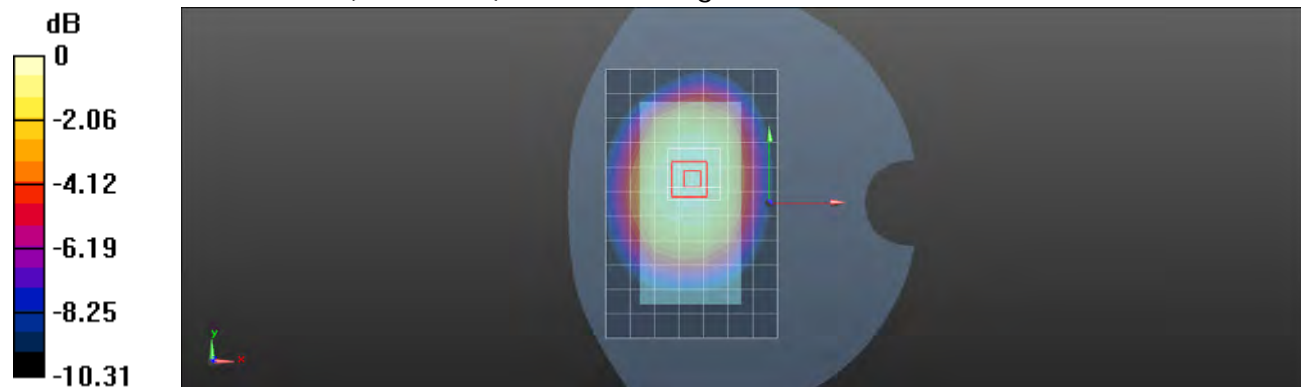
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.425 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.618 W/kg

SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 0.515 W/kg



0 dB = 0.515 W/kg = -2.88 dBW/kg

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Date: 2013/5/4

Hotspot mode_Back side_CH4132

Communication System: WCDMA; Frequency: 826.4 MHz

 Medium parameters used : $f = 826.4 \text{ MHz}$; $\sigma = 0.976 \text{ S/m}$; $\epsilon_r = 56.43$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.791 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

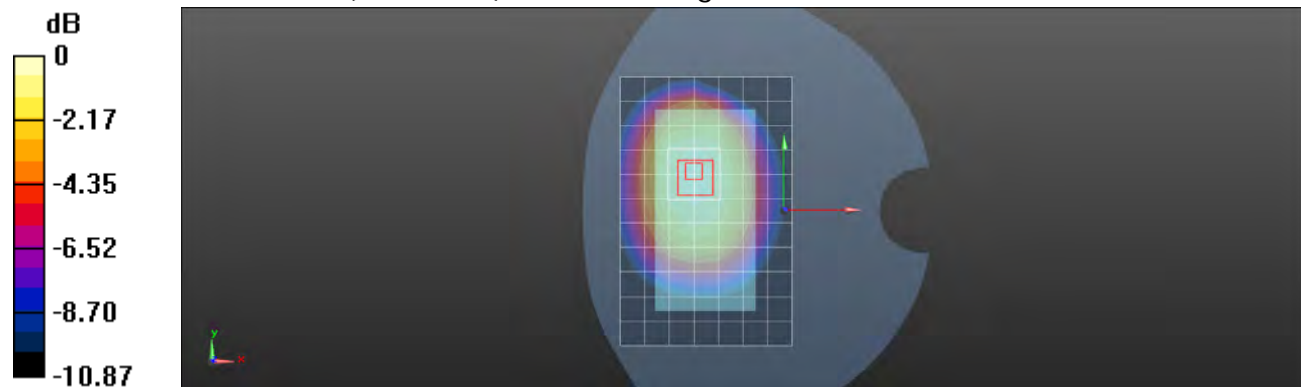
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.214 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.974 W/kg

SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.547 W/kg

Maximum value of SAR (measured) = 0.813 W/kg


 $0 \text{ dB} = 0.813 \text{ W/kg} = -0.90 \text{ dBW/kg}$

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Date: 2013/5/4

Hotspot mode_Back side_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.700 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

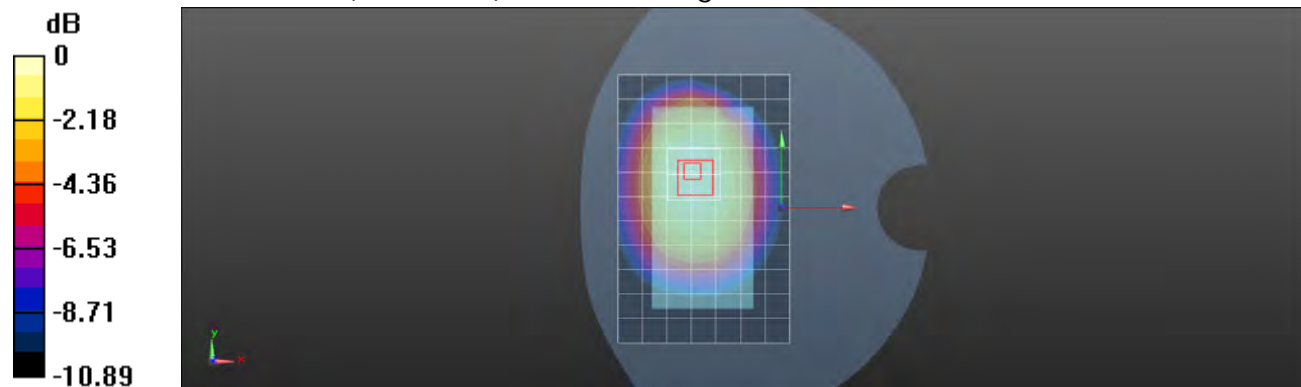
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.399 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.473 W/kg

Maximum value of SAR (measured) = 0.713 W/kg



0 dB = 0.713 W/kg = -1.47 dBW/kg

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Date: 2013/5/4

Hotspot mode_Back side_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

 Medium parameters used: $f = 847$ MHz; $\sigma = 0.997$ S/m; $\epsilon_r = 56.29$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.996 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

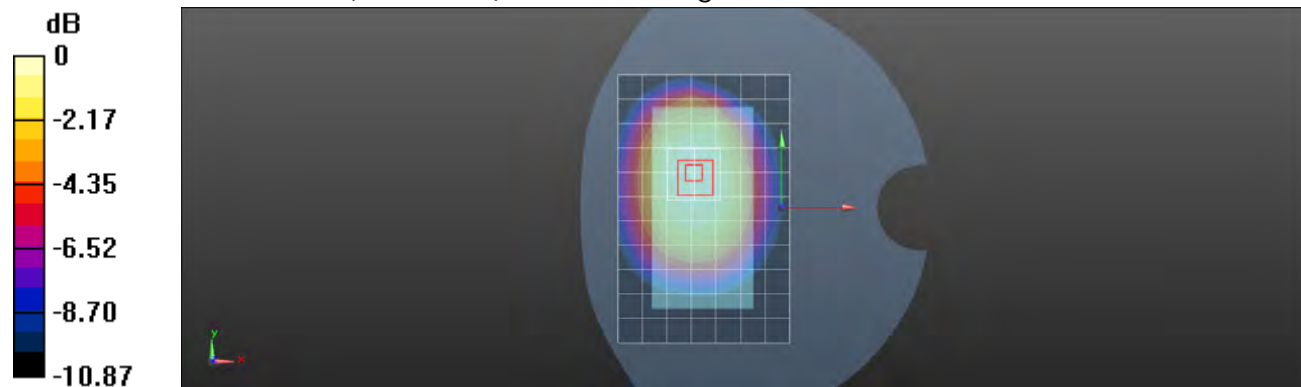
dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.354 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.665 W/kg

Maximum value of SAR (measured) = 0.993 W/kg



0 dB = 0.993 W/kg = -0.03 dBW/kg

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Date: 2013/5/4

Hotspot mode_Back side_CH4233_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: $f = 847$ MHz; $\sigma = 0.997$ S/m; $\epsilon_r = 56.29$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.983 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.175 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.664 W/kg

Maximum value of SAR (measured) = 0.988 W/kg



0 dB = 0.988 W/kg = -0.05 dBW/kg

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Date: 2013/5/4

Hotspot mode_Bottom side_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0659 W/kg

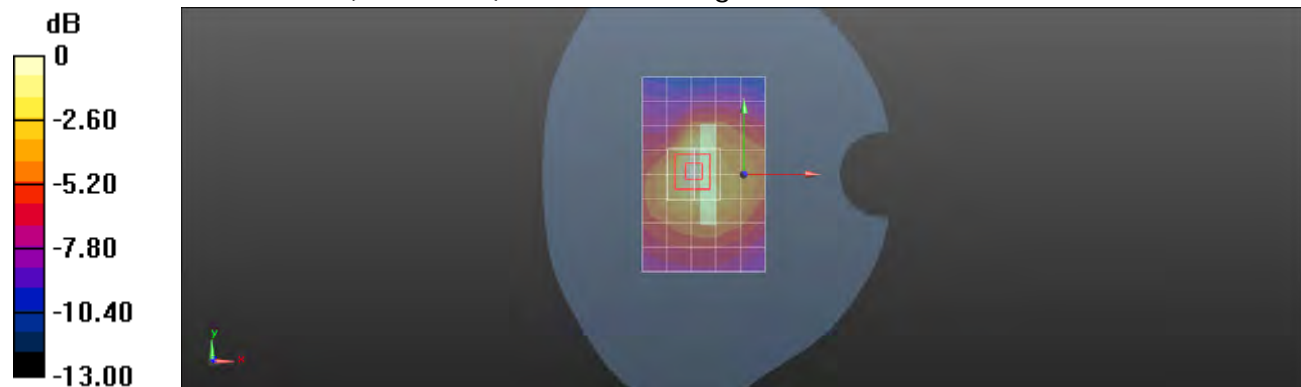
Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.983 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0650 W/kg



0 dB = 0.0650 W/kg = -11.87 dBW/kg

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Date: 2013/5/4

Hotspot mode_Right side_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.467 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

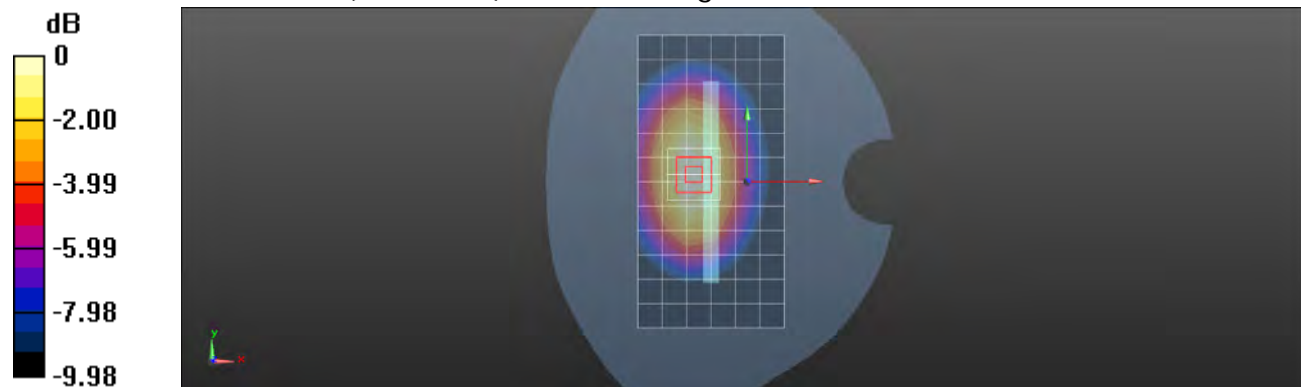
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.876 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 0.483 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

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Date: 2013/5/4

Hotspot mode_Left side_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: $f = 837$ MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 56.36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.432 W/kg

Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

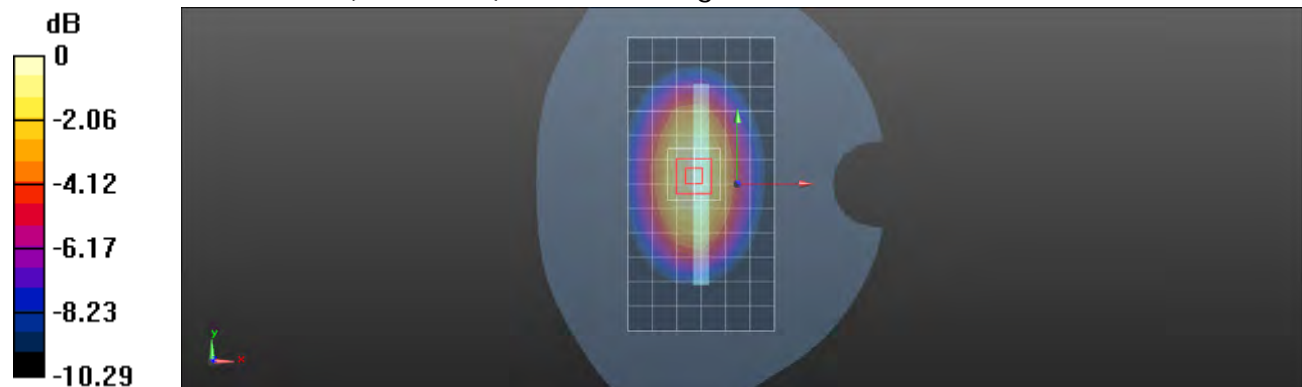
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.925 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.451 W/kg = -3.46 dBW/kg

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Date: 2013/5/10

RE Cheek_WLAN802.11b_CH1

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.758$ S/m; $\epsilon_r = 39.077$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.850 W/kg

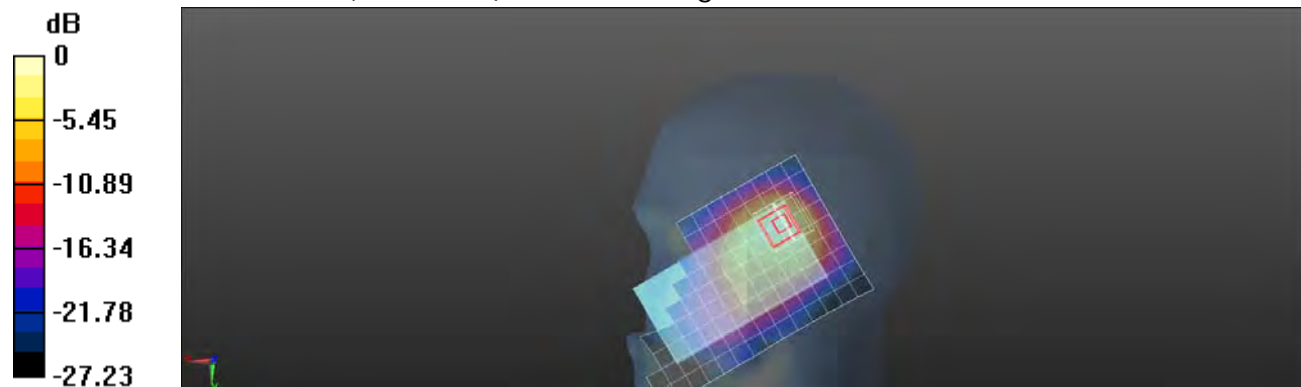
Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.341 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 0.967 W/kg



0 dB = 0.967 W/kg = -0.15 dBW/kg

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Date: 2013/5/10

RE Cheek_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.786$ S/m; $\epsilon_r = 38.983$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.790 W/kg

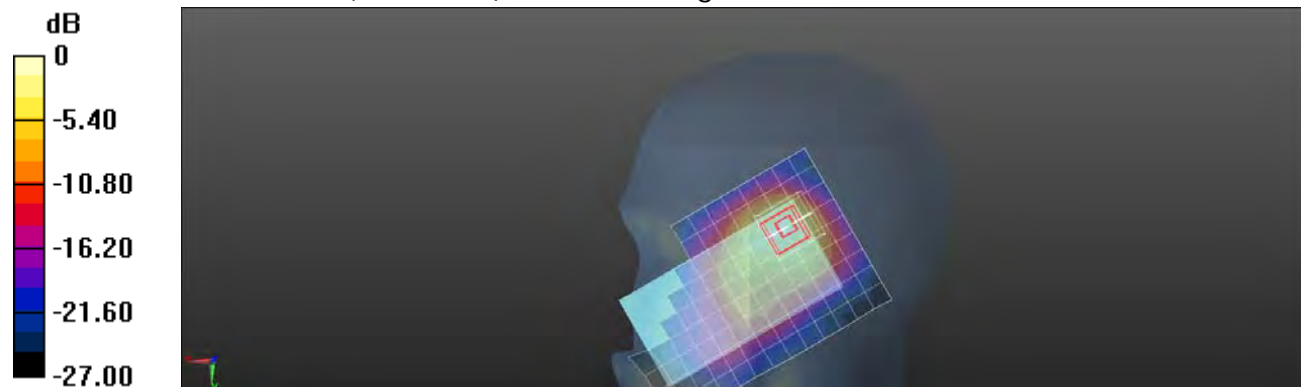
Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.476 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.275 W/kg

Maximum value of SAR (measured) = 0.834 W/kg



0 dB = 0.834 W/kg = -0.79 dBW/kg

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Date: 2013/5/10

RE Cheek_WLAN802.11b_CH11

Communication System: WLAN 2.45G (FCC); Frequency: 2462 MHz

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.817$ S/m; $\epsilon_r = 38.925$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.828 W/kg

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

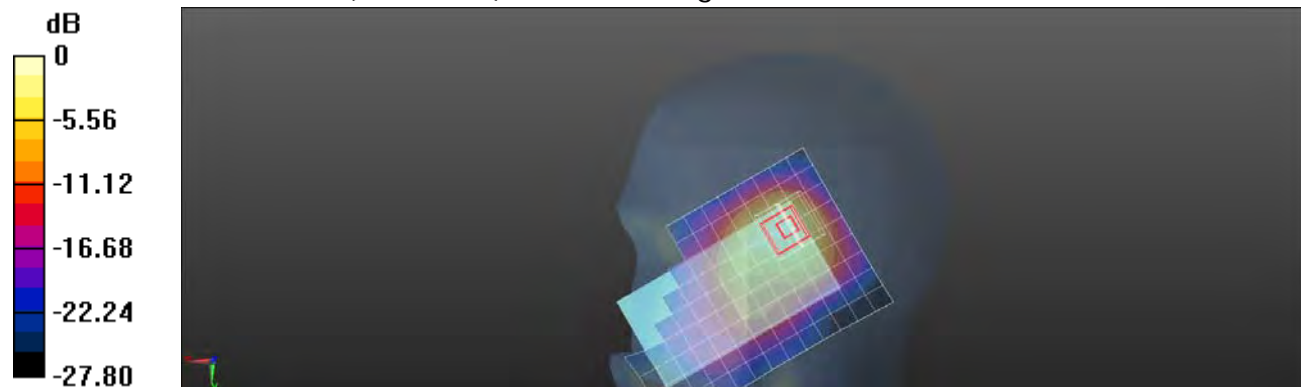
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.749 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.951 W/kg



0 dB = 0.951 W/kg = -0.22 dBW/kg

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Date: 2013/5/10

RE Cheek_WLAN802.11b_CH1_repeated with external Memory card inside

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.758$ S/m; $\epsilon_r = 39.077$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.829 W/kg

Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

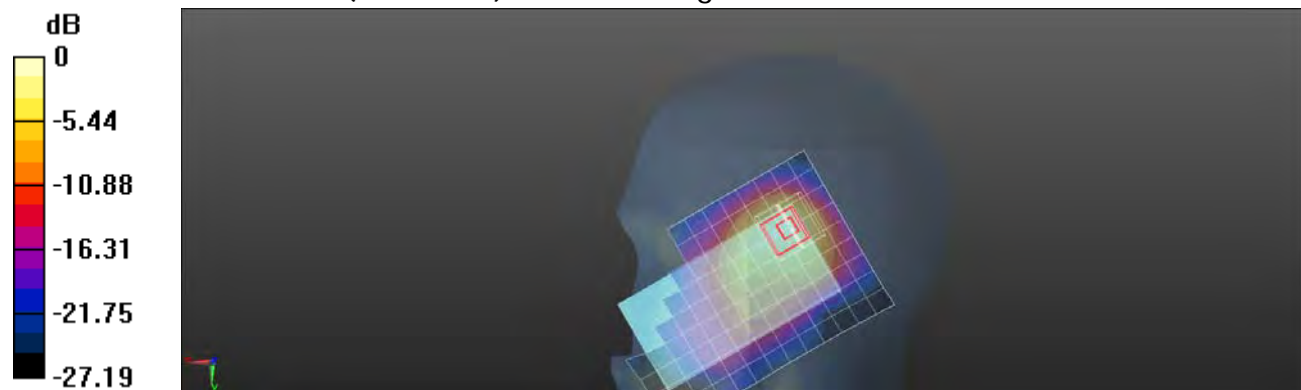
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.775 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.308 W/kg

Maximum value of SAR (measured) = 0.937 W/kg



0 dB = 0.937 W/kg = -0.28 dBW/kg

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Date: 2013/5/10

RE Tilt_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.786$ S/m; $\epsilon_r = 38.983$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.559 W/kg

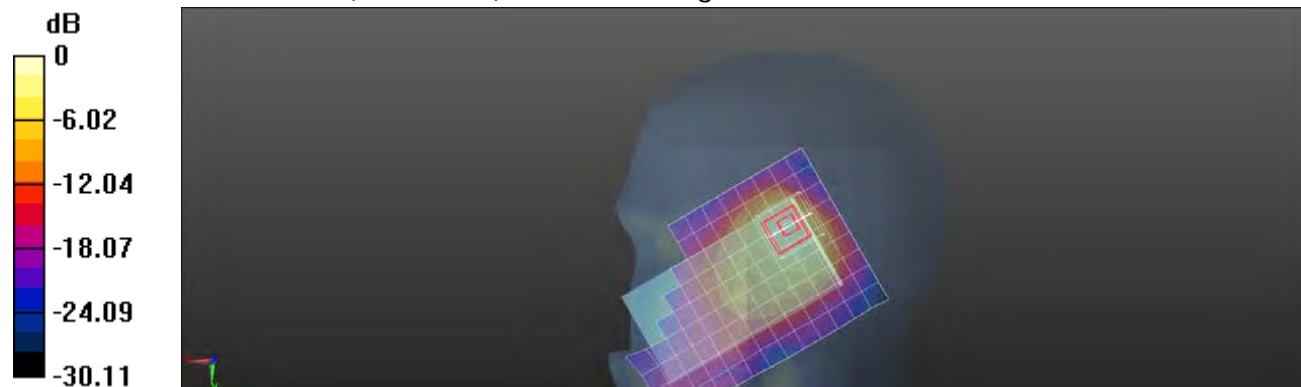
Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.361 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.980 W/kg

SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 0.695 W/kg



0 dB = 0.695 W/kg = -1.58 dBW/kg

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Date: 2013/5/10

LE Cheek_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.786$ S/m; $\epsilon_r = 38.983$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.369 W/kg

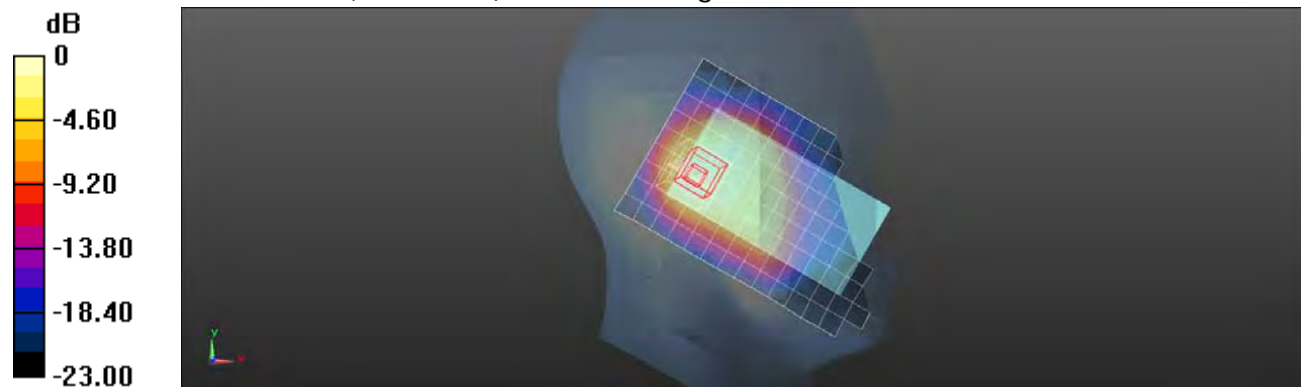
Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.222 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.426 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

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Date: 2013/5/10

LE Tilt_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.786$ S/m; $\epsilon_r = 38.983$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.358 W/kg

Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

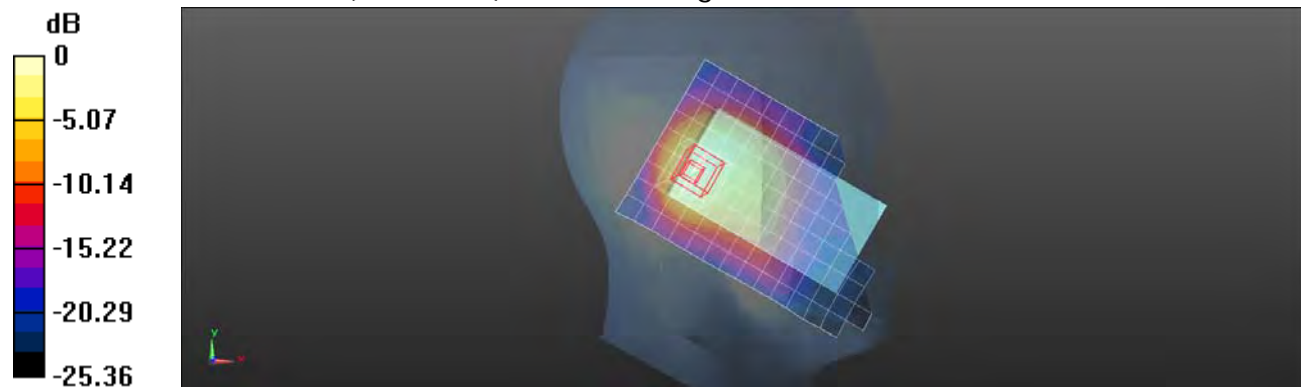
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.932 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.399 W/kg



0 dB = 0.399 W/kg = -3.99 dBW/kg

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Date: 2013/5/10

Hotspot mode_Front side_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.923$ S/m; $\epsilon_r = 54.387$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

$dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.156 W/kg

Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

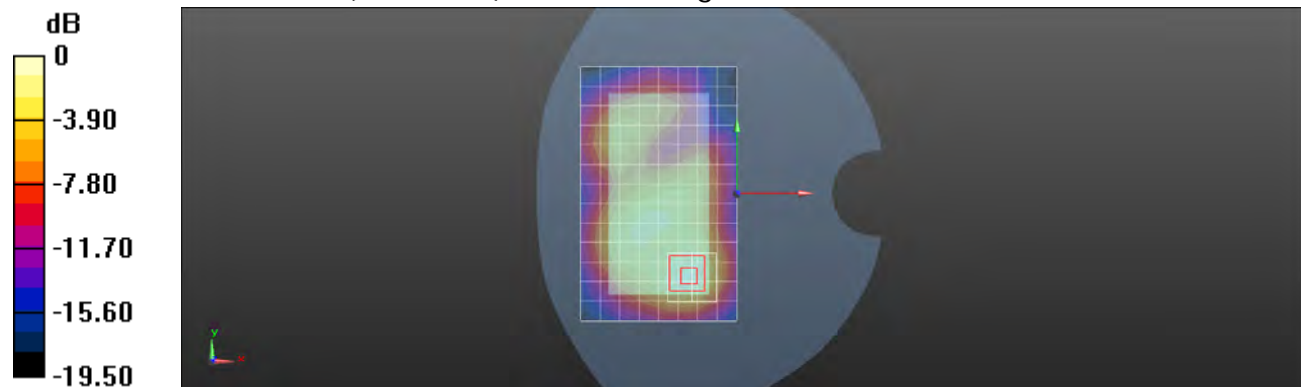
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.814 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.182 W/kg



0 dB = 0.182 W/kg = -7.40 dBW/kg

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Date: 2013/5/10

Hotspot mode_Back side_WLAN802.11b_CH1

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 54.466$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

dx=12mm, dy=12mm

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

Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.600 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.214 W/kg



0 dB = 0.214 W/kg = -6.70 dBW/kg

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Date: 2013/5/10

Hotspot mode_Back side_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.923$ S/m; $\epsilon_r = 54.387$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

 $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.196 W/kg

Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

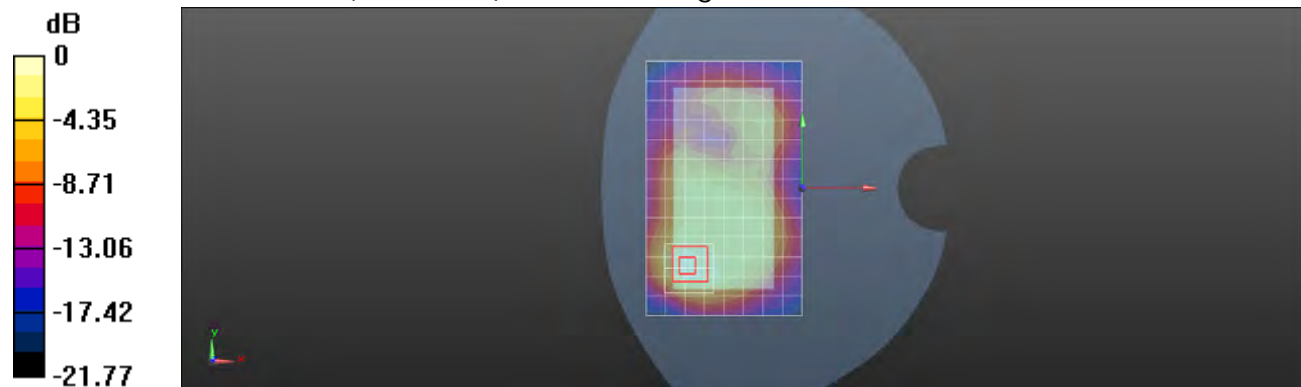
 $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.740 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.075 W/kg

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


 0 dB = 0.216 W/kg = -6.66 dBW/kg

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Date: 2013/5/10

Hotspot mode_Back side_WLAN802.11b_CH11

Communication System: WLAN 2.45G (FCC); Frequency: 2462 MHz

 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 54.336$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

 $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.244 W/kg

Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

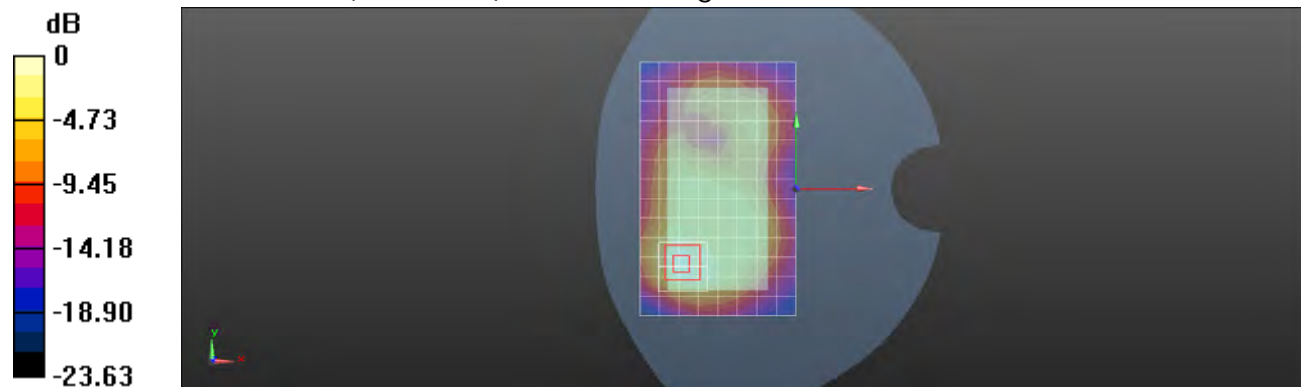
 $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.880 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.262 W/kg


 0 dB = 0.262 W/kg = -5.82 dBW/kg

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Date: 2013/5/10

Hotspot mode_Top side_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.923$ S/m; $\epsilon_r = 54.387$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x9x1): Measurement grid: dx=12mm, dy=12mm

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

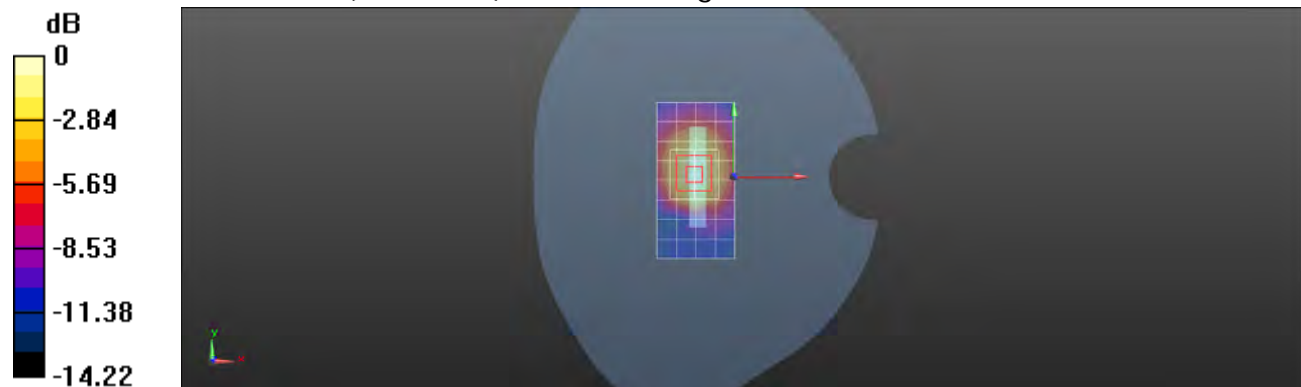
Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.877 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.147 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg

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Date: 2013/5/10

Hotspot mode_Left side_WLAN802.11b_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.923$ S/m; $\epsilon_r = 54.387$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (6x14x1): Measurement grid:

$dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.117 W/kg

Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

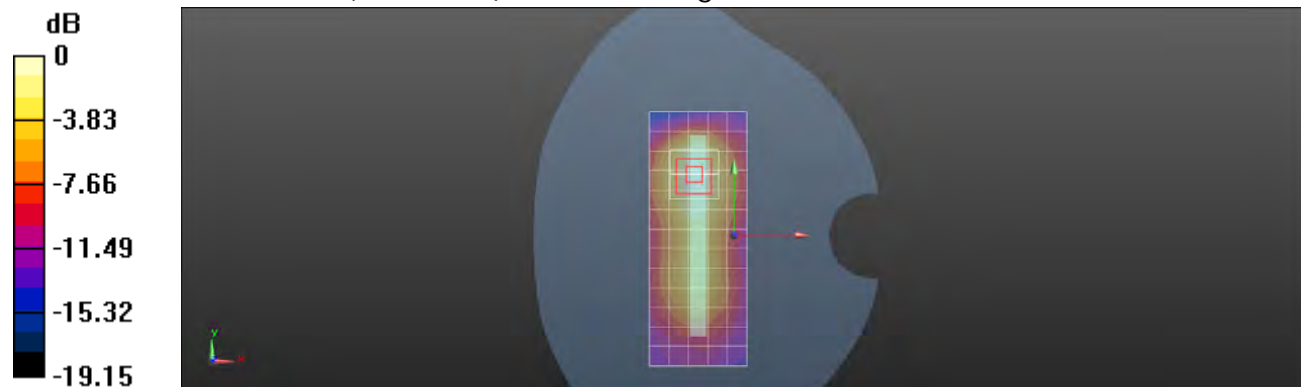
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.342 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.164 W/kg

SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.124 W/kg



0 dB = 0.124 W/kg = -9.07 dBW/kg

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Date: 2013/5/12

RE Cheek_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.551$ S/m; $\epsilon_r = 36.261$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.493 W/kg

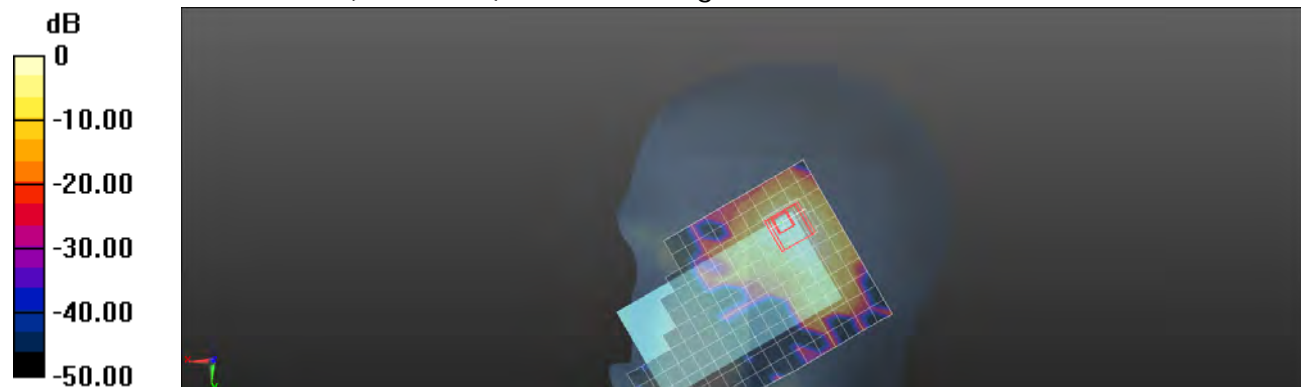
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.552 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.572 W/kg



0 dB = 0.572 W/kg = -2.43 dBW/kg

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Date: 2013/5/12

RE Cheek_WLAN802.11a 5.2G_CH44

Communication System: WLAN 5G (FCC); Frequency: 5220 MHz

Medium parameters used: $f = 5220$ MHz; $\sigma = 4.603$ S/m; $\epsilon_r = 36.183$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.454 W/kg

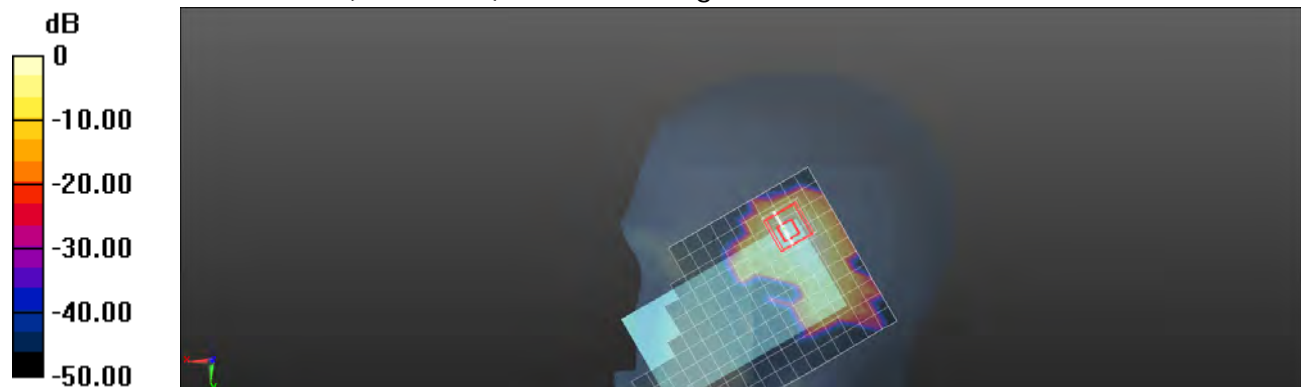
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.827 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.559 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.551$ S/m; $\epsilon_r = 36.261$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.497 W/kg

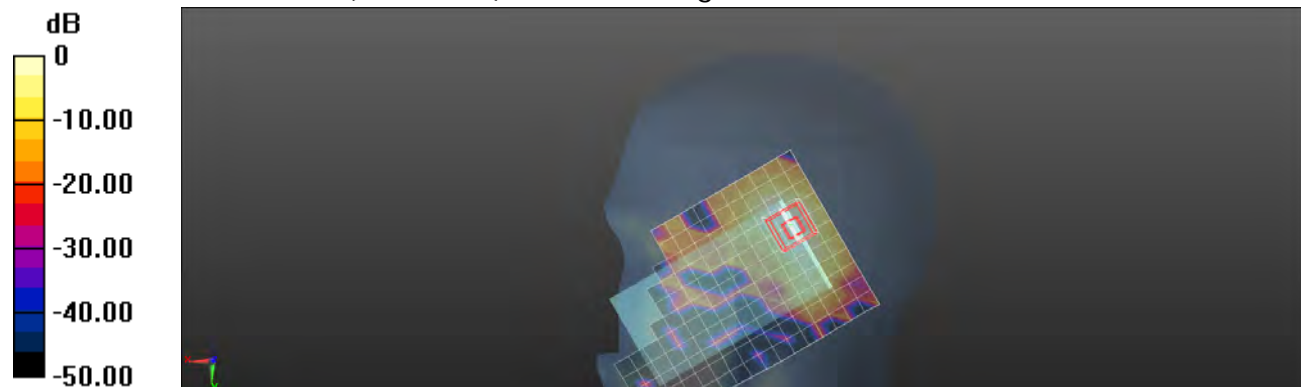
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.348 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.932 W/kg

SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

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Date: 2013/5/12

LE Cheek_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.551$ S/m; $\epsilon_r = 36.261$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.308 W/kg

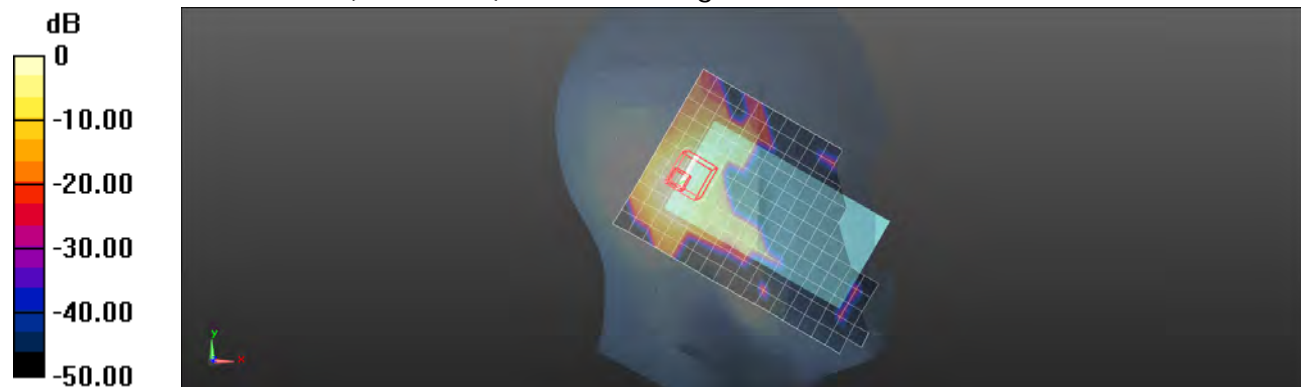
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.657 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.331 W/kg = -4.80 dBW/kg

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Date: 2013/5/12

LE Tilt_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.551$ S/m; $\epsilon_r = 36.261$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.382 W/kg

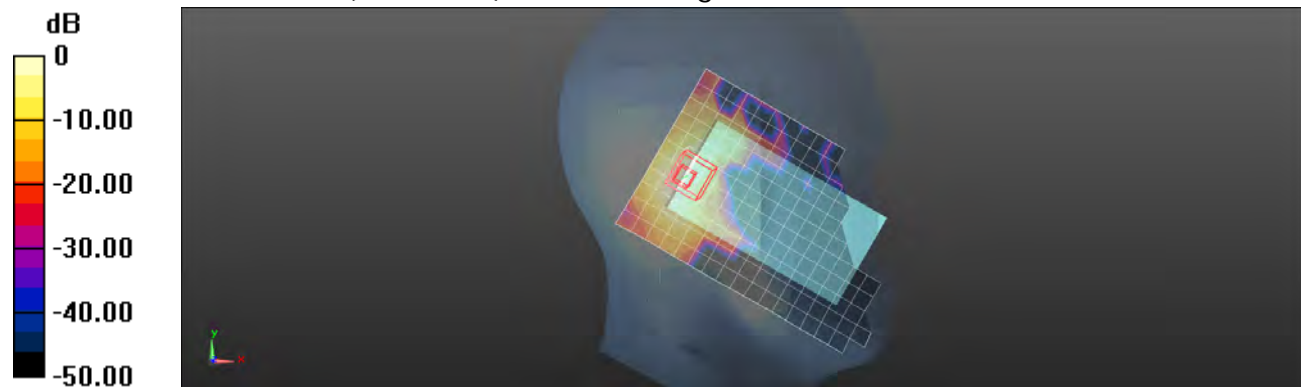
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.262 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.430 W/kg



0 dB = 0.430 W/kg = -3.67 dBW/kg

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Date: 2013/5/17

Hotspot mode_Front side_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 49.602$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0612 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

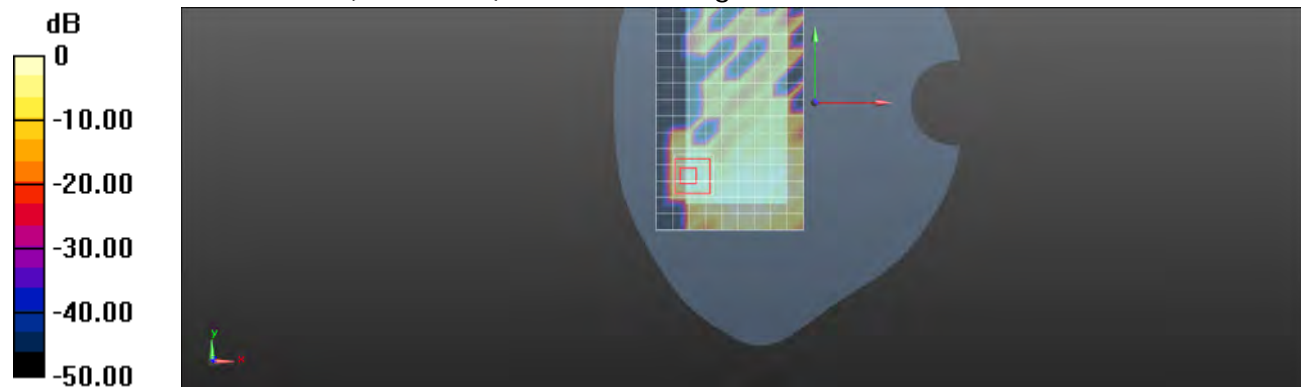
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.013 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.406 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.00981 W/kg

Maximum value of SAR (measured) = 0.0649 W/kg



0 dB = 0.0649 W/kg = -11.88 dBW/kg

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Date: 2013/5/17

Hotspot mode_Back side_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.273 \text{ S/m}$; $\epsilon_r = 49.602$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

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

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.192 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.202 W/kg


 $0 \text{ dB} = 0.202 \text{ W/kg} = -6.95 \text{ dBW/kg}$

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 49.602$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.244 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

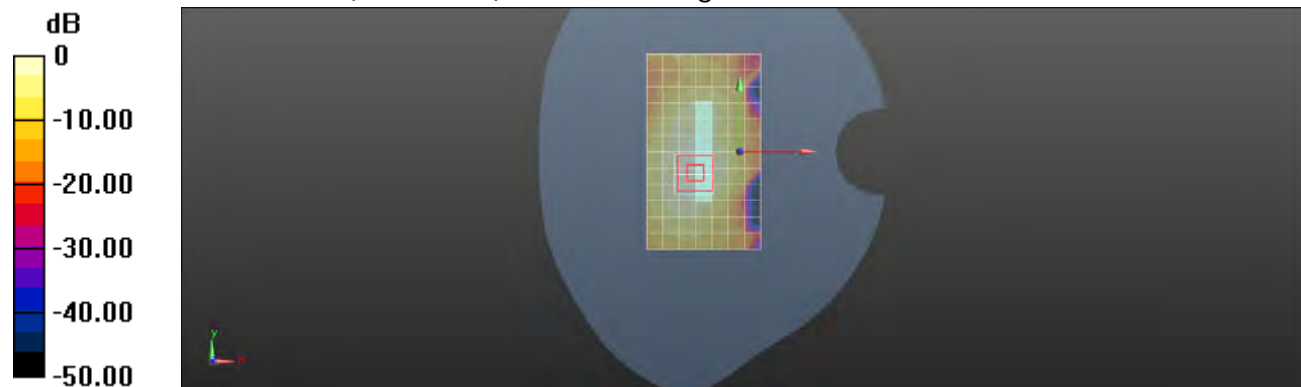
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.038 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.052 W/kg

Maximum value of SAR (measured) = 0.243 W/kg



0 dB = 0.243 W/kg = -6.14 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11a 5.2G_CH44

Communication System: WLAN 5G (FCC); Frequency: 5220 MHz

 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.337 \text{ S/m}$; $\epsilon_r = 49.516$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.255 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

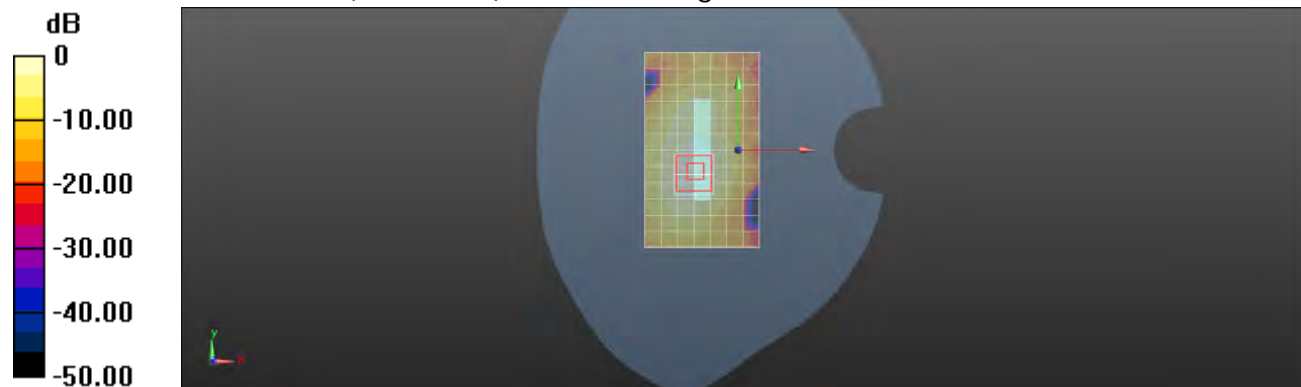
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 5.385 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.522 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.262 W/kg


 $0 \text{ dB} = 0.262 \text{ W/kg} = -5.82 \text{ dBW/kg}$

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Member of SGS Group

Date: 2013/5/17

Hotspot mode_Left side_WLAN802.11a 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.273 \text{ S/m}$; $\epsilon_r = 49.602$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0928 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

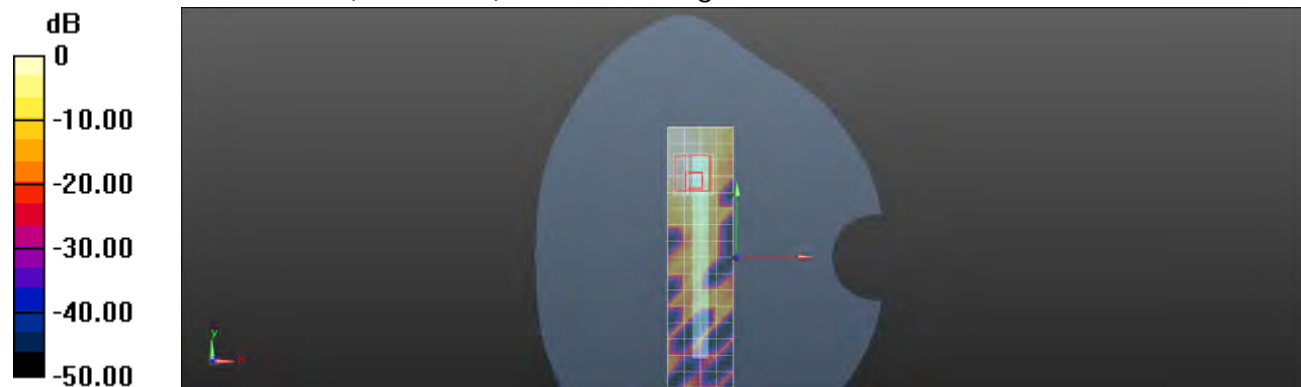
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.219 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.519 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.017 W/kg

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


 $0 \text{ dB} = 0.104 \text{ W/kg} = -9.83 \text{ dBW/kg}$

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Date: 2013/5/12

RE Cheek_WLAN802.11n(20M) 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.551$ S/m; $\epsilon_r = 36.261$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.396 W/kg

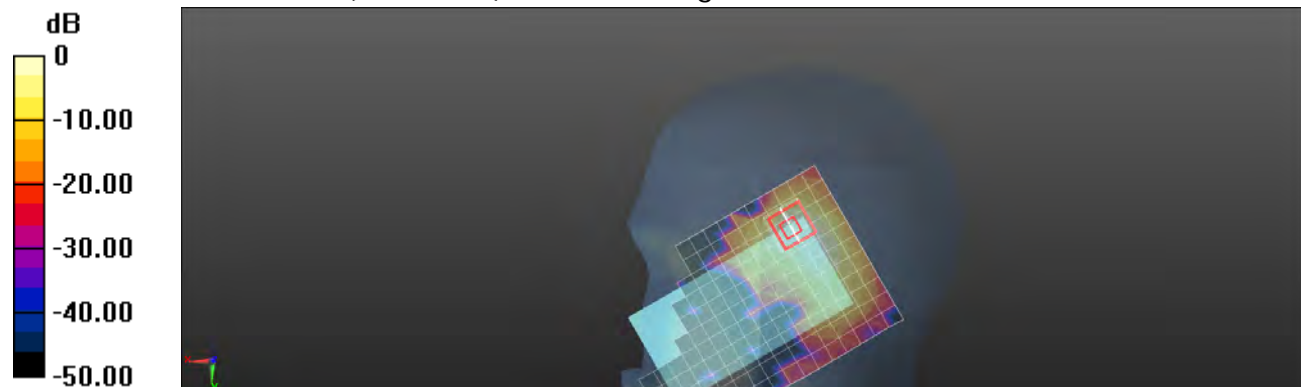
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.660 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.078 W/kg

Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.488 W/kg = -3.12 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(20M) 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.551$ S/m; $\epsilon_r = 36.261$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.469 W/kg

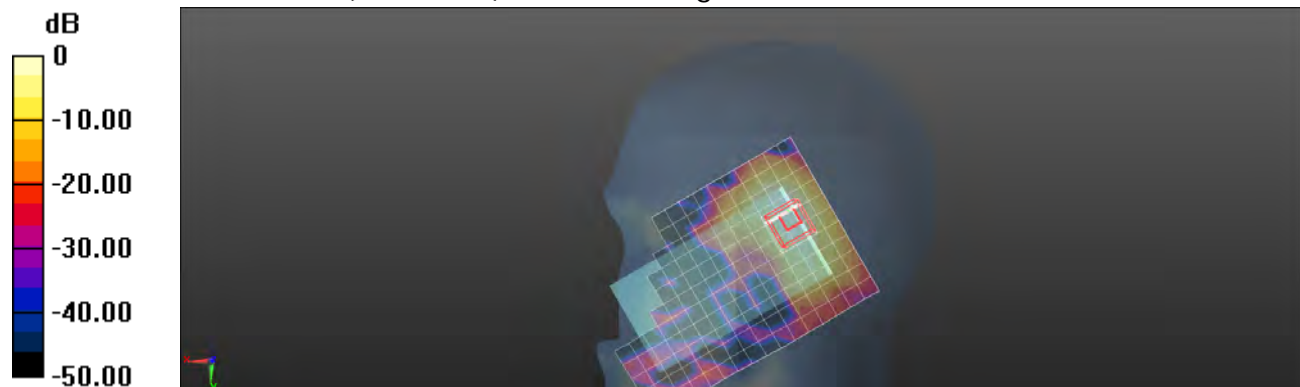
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.682 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.099 W/kg

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



0 dB = 0.554 W/kg = -2.56 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(20M) 5.2G_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 4.629 \text{ S/m}$; $\epsilon_r = 36.144$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.617 W/kg

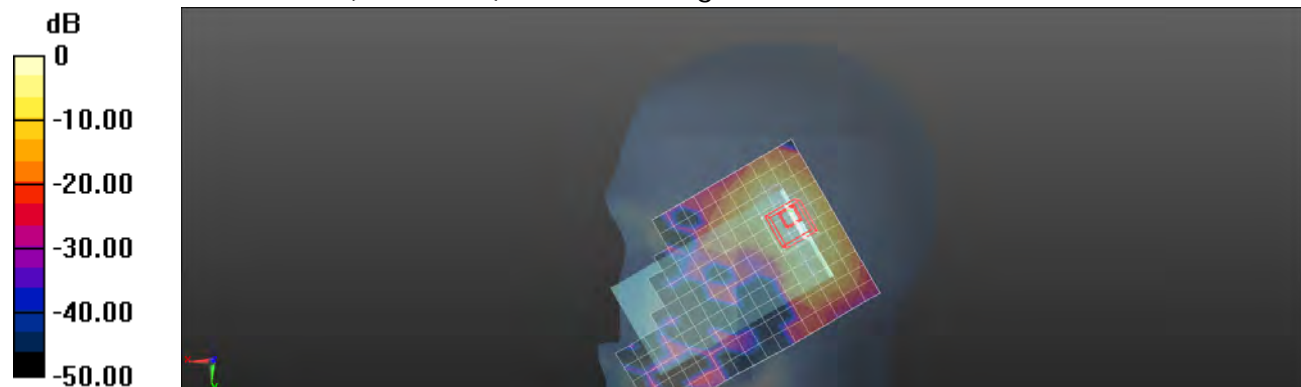
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 11.715 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.734 W/kg



0 dB = 0.734 W/kg = -1.34 dBW/kg

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Date: 2013/5/12

LE Cheek_WLAN802.11n(20M) 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.551 \text{ S/m}$; $\epsilon_r = 36.261$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.401 W/kg

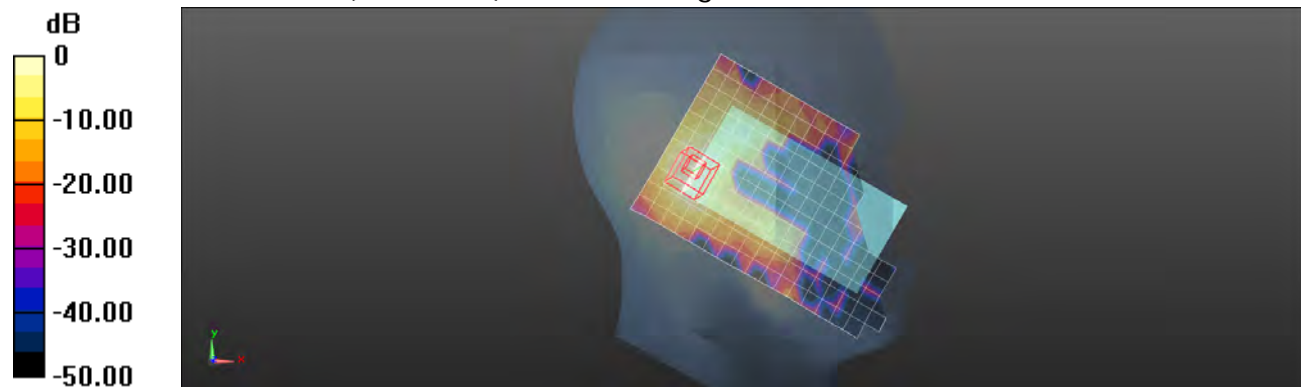
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.011 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.713 W/kg

SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.412 W/kg



0 dB = 0.412 W/kg = -3.85 dBW/kg

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Member of SGS Group

Date: 2013/5/12

LE Tilt_WLAN802.11n(20M) 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.551 \text{ S/m}$; $\epsilon_r = 36.261$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.506 W/kg

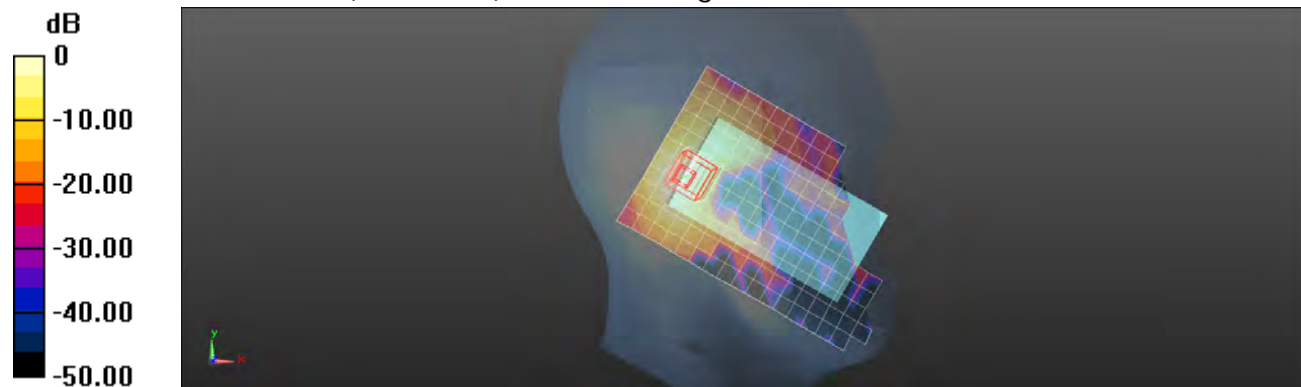
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.335 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.888 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Front side_WLAN802.11n(20M)5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 49.602$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0449 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

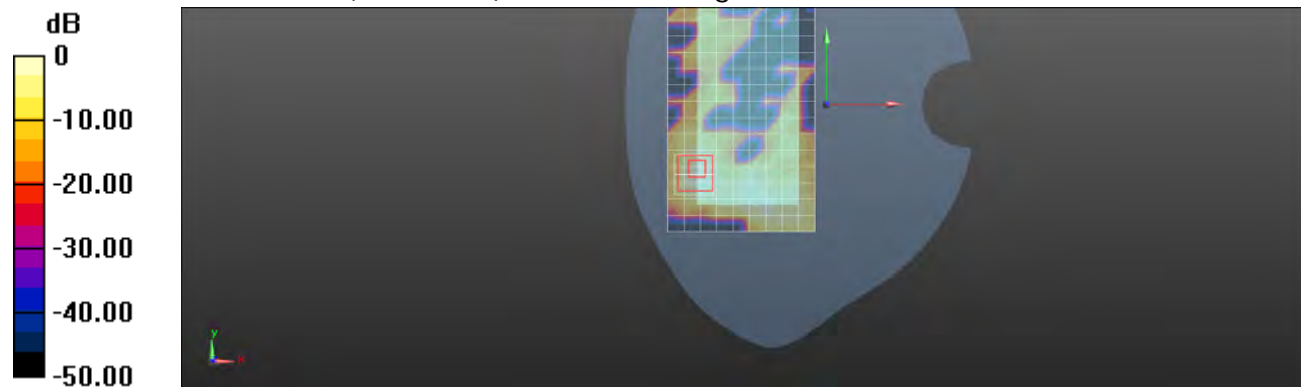
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.729 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00602 W/kg

Maximum value of SAR (measured) = 0.0477 W/kg



0 dB = 0.0477 W/kg = -13.21 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Back side_WLAN802.11n(20M)5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.273 \text{ S/m}$; $\epsilon_r = 49.602$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

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

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

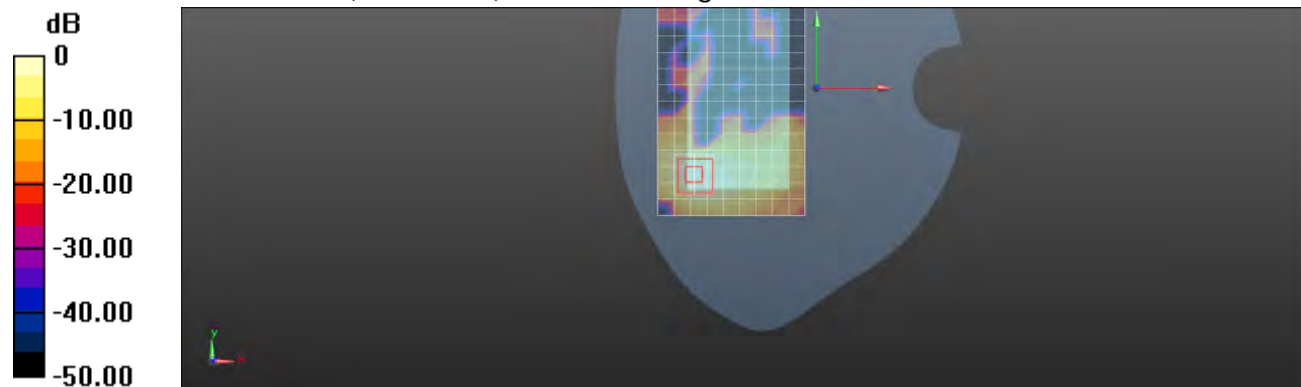
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.612 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.274 W/kg

SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.024 W/kg

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



0 dB = 0.148 W/kg = -8.30 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(20M) 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.273 \text{ S/m}$; $\epsilon_r = 49.602$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.179 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

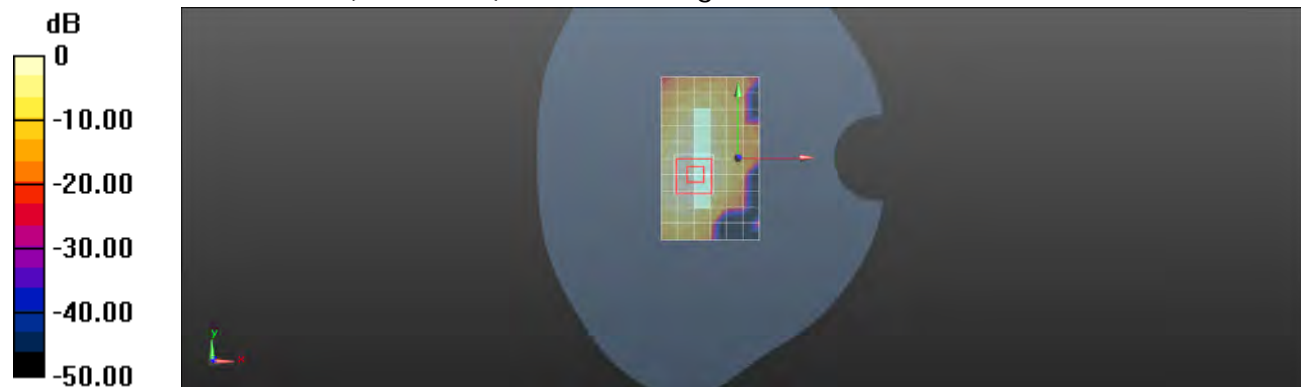
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.476 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.035 W/kg

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



0 dB = 0.176 W/kg = -7.54 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(20M) 5.2G_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.363 \text{ S/m}$; $\epsilon_r = 49.48$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.276 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

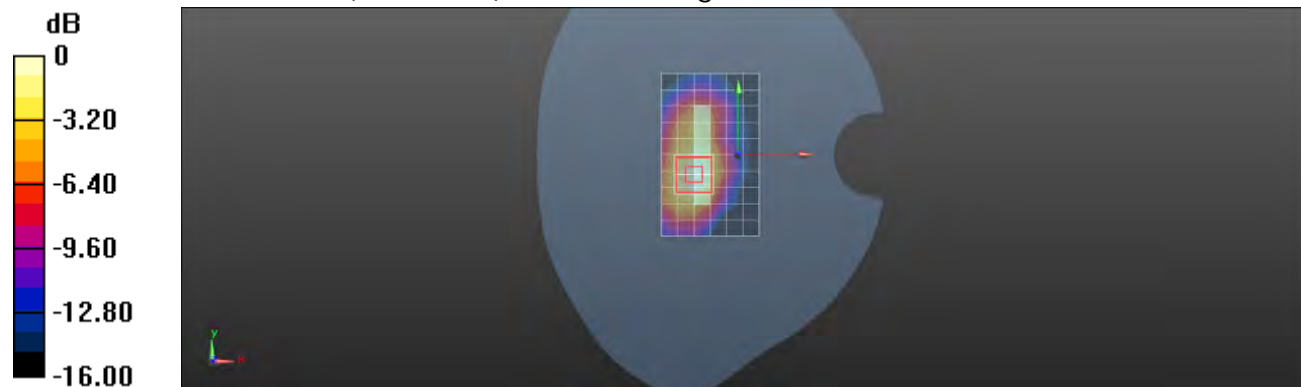
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 5.633 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.283 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg

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Date: 2013/5/17

Hotspot mode_Left side_WLAN802.11n(20M) 5.2G_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 49.602$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0700 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.896 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0751 W/kg



0 dB = 0.0751 W/kg = -11.24 dBW/kg

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Date: 2013/5/12

RE Cheek_WLAN802.11n(40M) 5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used: $f = 5190$ MHz; $\sigma = 4.564$ S/m; $\epsilon_r = 35.245$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.345 W/kg

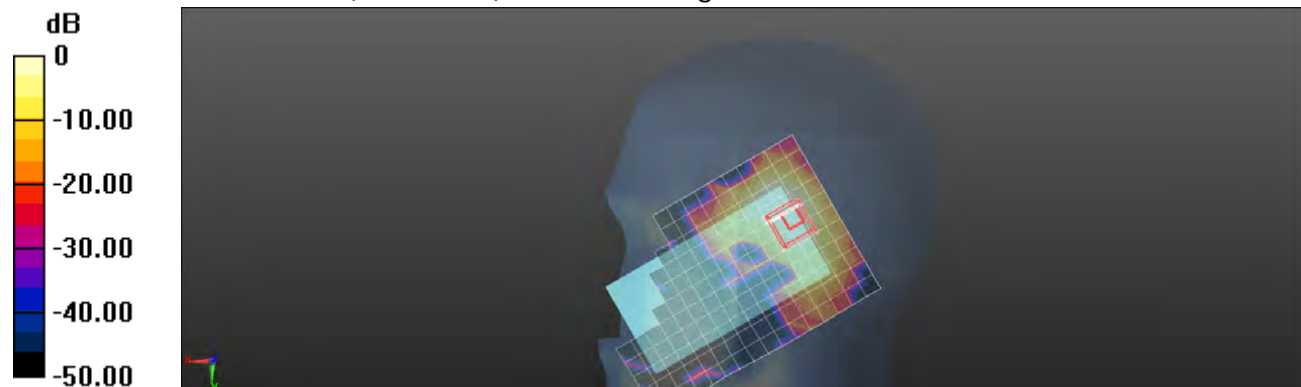
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.699 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.658 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.064 W/kg

Maximum value of SAR (measured) = 0.360 W/kg



0 dB = 0.360 W/kg = -4.44 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(40M) 5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used: $f = 5190 \text{ MHz}$; $\sigma = 4.564 \text{ S/m}$; $\epsilon_r = 35.245$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.394 W/kg

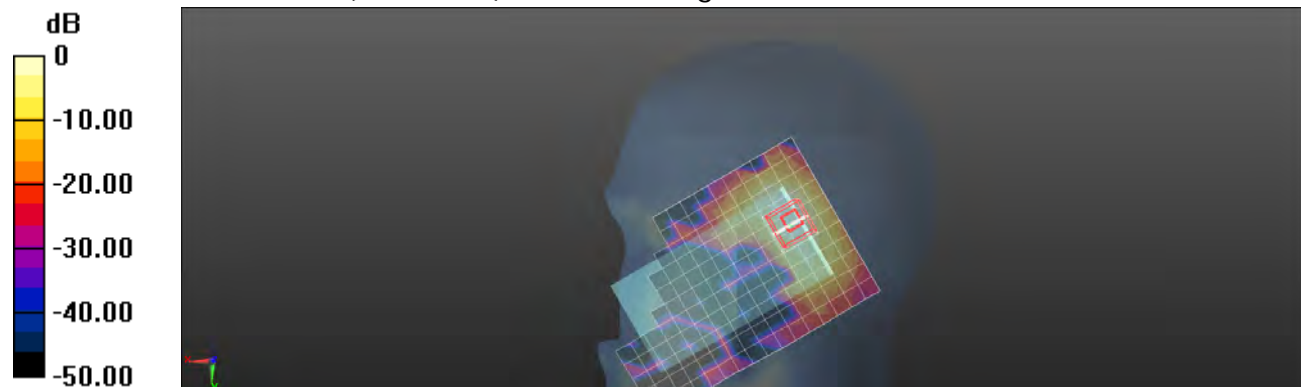
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.802 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.854 W/kg

SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.081 W/kg

Maximum value of SAR (measured) = 0.461 W/kg



0 dB = 0.461 W/kg = -3.36 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(40M) 5.2G_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

 Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.616 \text{ S/m}$; $\epsilon_r = 36.163$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.441 W/kg

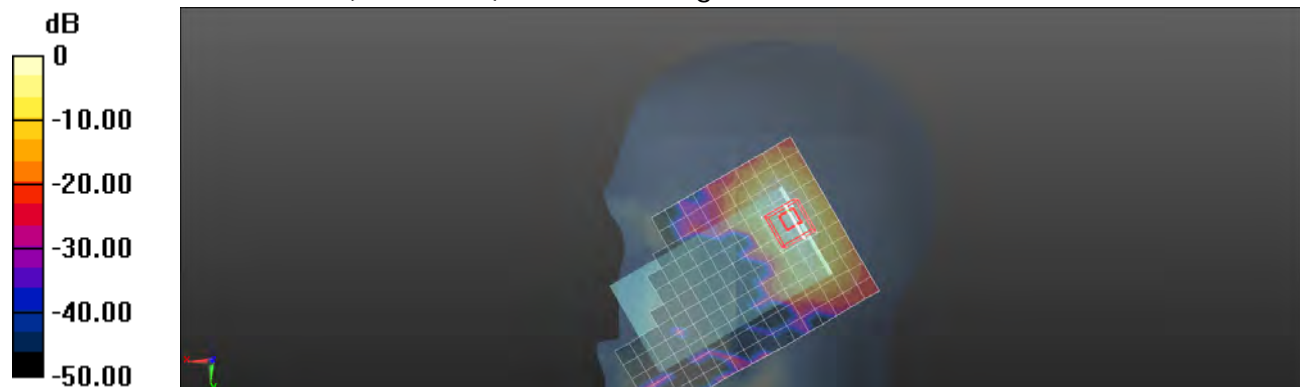
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.920 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.984 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.094 W/kg

Maximum value of SAR (measured) = 0.529 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

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Date: 2013/5/12

LE Cheek_WLAN802.11n(40M) 5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used: $f = 5190$ MHz; $\sigma = 4.564$ S/m; $\epsilon_r = 35.245$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.288 W/kg

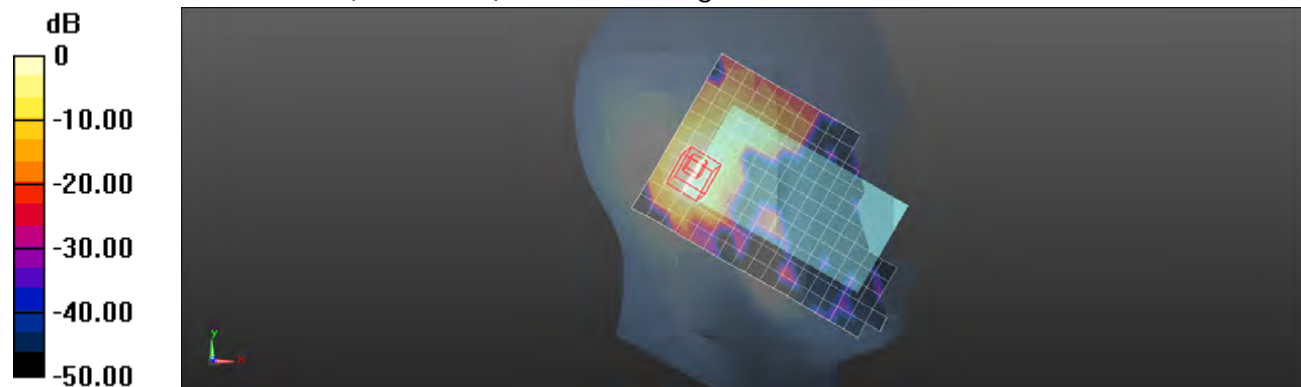
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.651 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.299 W/kg



0 dB = 0.299 W/kg = -5.24 dBW/kg

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Date: 2013/5/12

LE Tilt_WLAN802.11n(40M) 5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used: $f = 5190$ MHz; $\sigma = 4.564$ S/m; $\epsilon_r = 35.245$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.366 W/kg

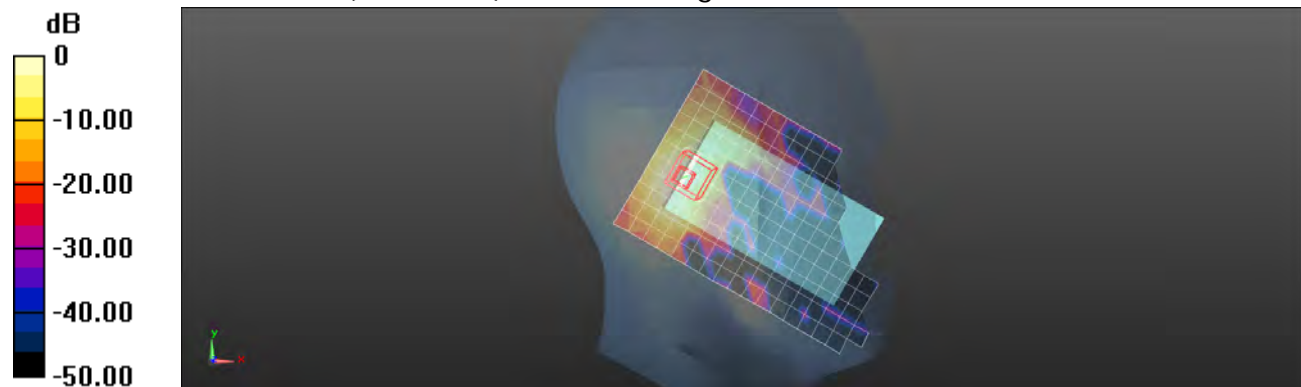
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.164 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.396 W/kg



0 dB = 0.396 W/kg = -4.02 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Front side_WLAN802.11n(40M)5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used: $f = 5190 \text{ MHz}$; $\sigma = 5.288 \text{ S/m}$; $\epsilon_r = 49.578$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0332 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

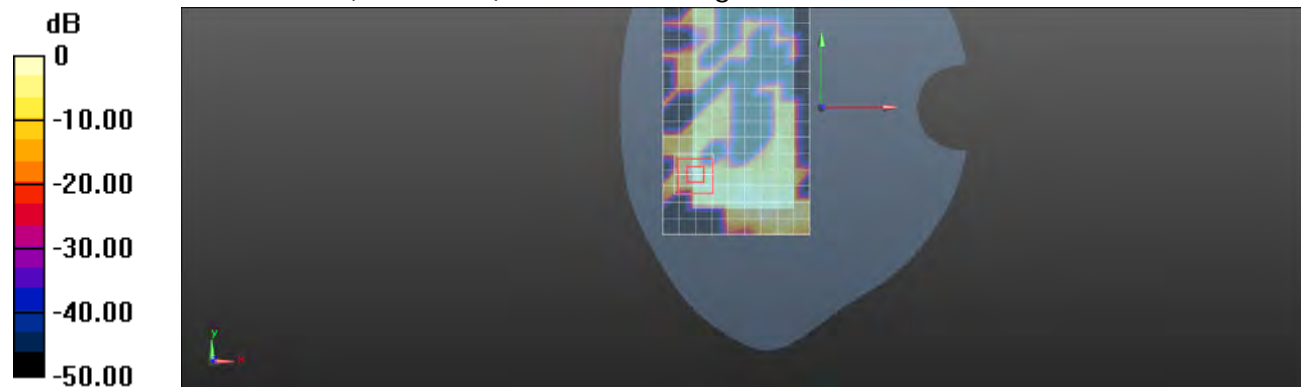
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.232V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00572 W/kg

Maximum value of SAR (measured) = 0.0391 W/kg



0 dB = 0.0391 W/kg = -14.08 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Back side_WLAN802.11n(40M)5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used: $f = 5190$ MHz; $\sigma = 5.288$ S/m; $\epsilon_r = 49.578$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.114 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

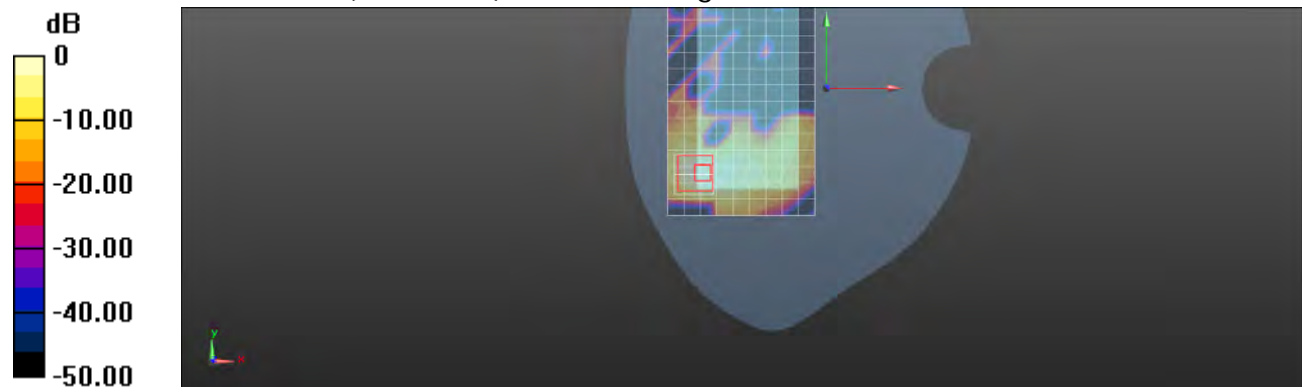
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.331 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.241 W/kg

SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.132 W/kg = -8.79 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(40M) 5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used: $f = 5190$ MHz; $\sigma = 5.288$ S/m; $\epsilon_r = 49.578$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.149 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

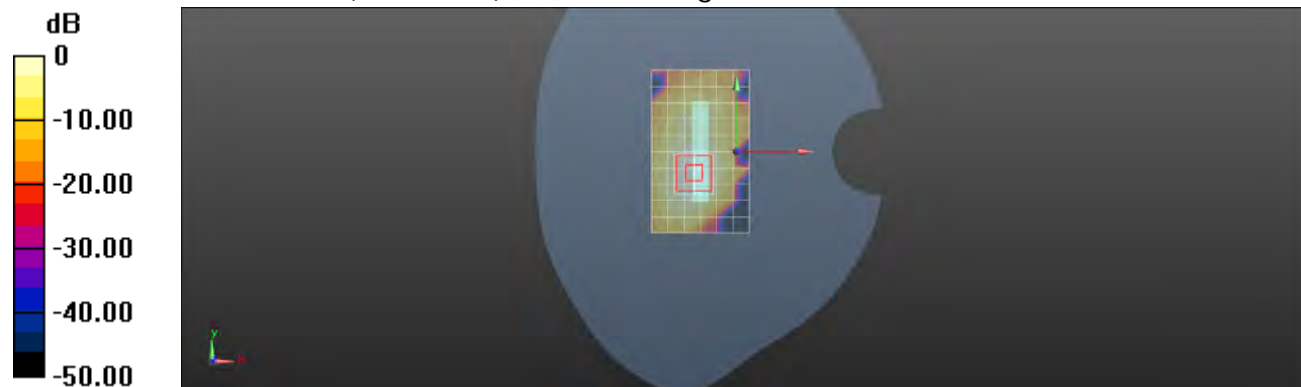
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.182 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.031 W/kg

Maximum value of SAR (measured) = 0.166 W/kg


 0 dB = 0.166 W/kg = -7.80 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(40M) 5.2G_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

 Medium parameters used: $f = 5230$ MHz; $\sigma = 5.351$ S/m; $\epsilon_r = 49.501$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.178 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

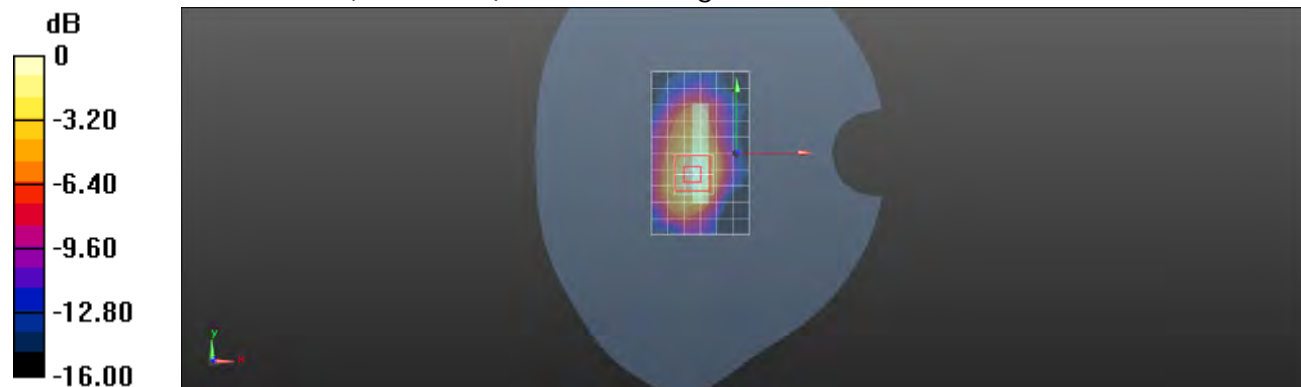
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.714 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.399 W/kg

SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.200 W/kg


 0 dB = 0.200 W/kg = -6.99 dBW/kg

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Date: 2013/5/17

Hotspot mode_Left side_WLAN802.11n(40M) 5.2G_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used: $f = 5190$ MHz; $\sigma = 5.288$ S/m; $\epsilon_r = 49.578$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0568 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

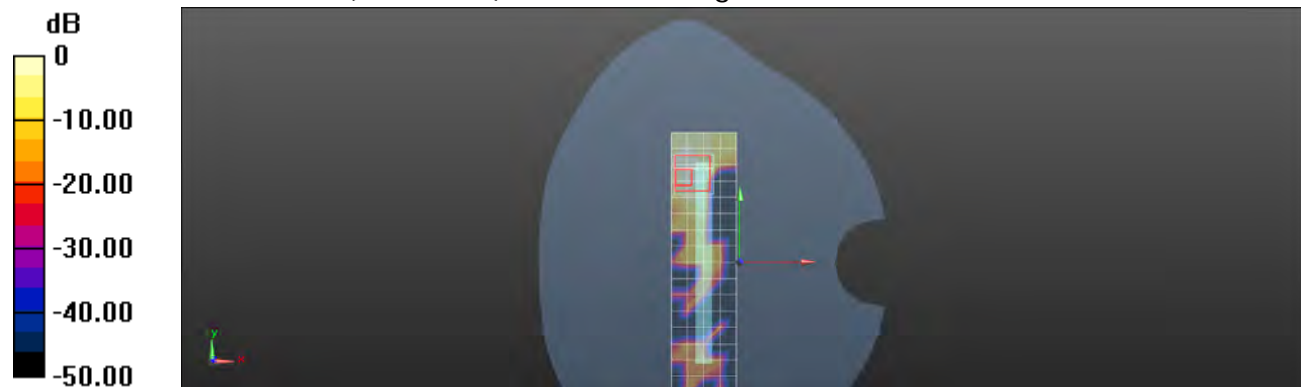
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.828 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.363 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0673 W/kg


 0 dB = 0.0673 W/kg = -11.72 dBW/kg

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Date: 2013/5/12

RE Cheek_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used: $f = 5280$ MHz; $\sigma = 4.682$ S/m; $\epsilon_r = 36.068$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.654 W/kg

Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.681 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.763 W/kg

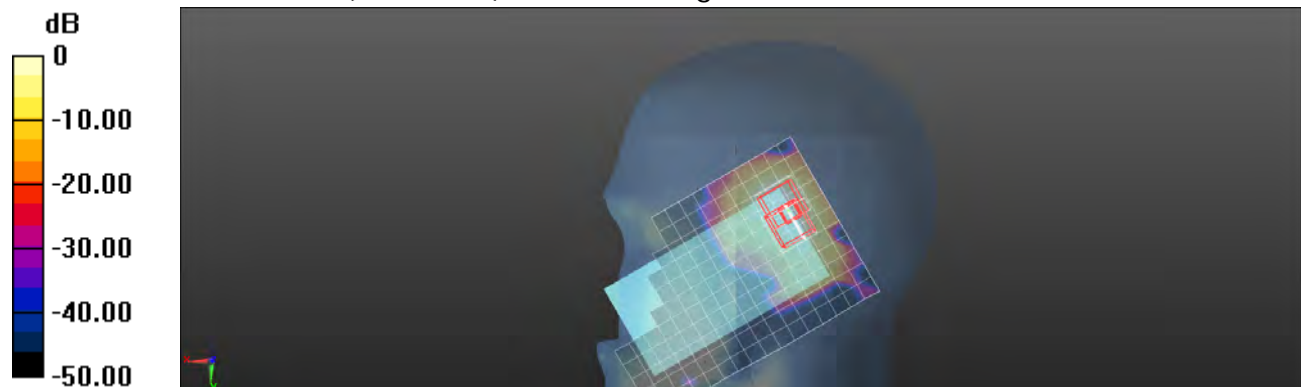
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.681 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 0.762 W/kg



0 dB = 0.762 W/kg = -1.18 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used: $f = 5280$ MHz; $\sigma = 4.682$ S/m; $\epsilon_r = 36.068$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.815 W/kg

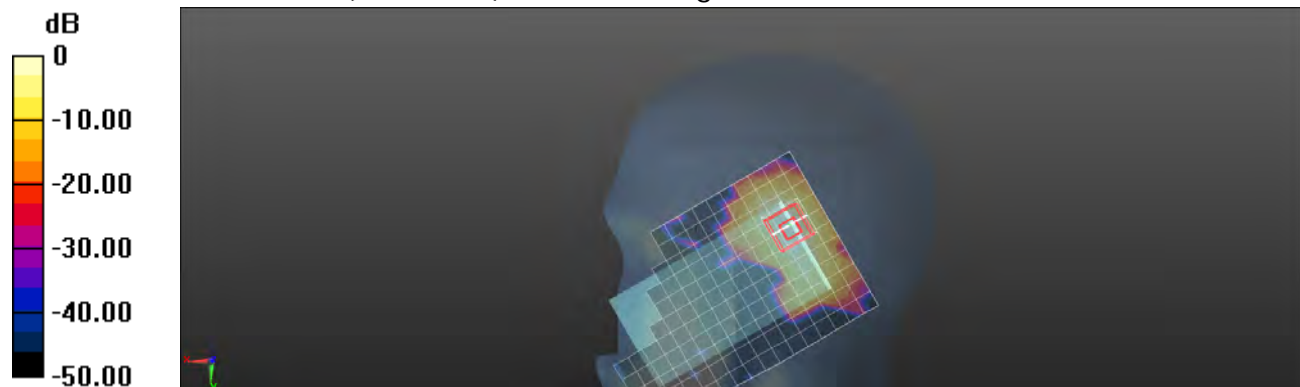
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.369 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.159 W/kg

Maximum value of SAR (measured) = 0.903 W/kg



0 dB = 0.903 W/kg = -0.44 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11a 5.3G_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.709$ S/m; $\epsilon_r = 36.028$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.983 W/kg

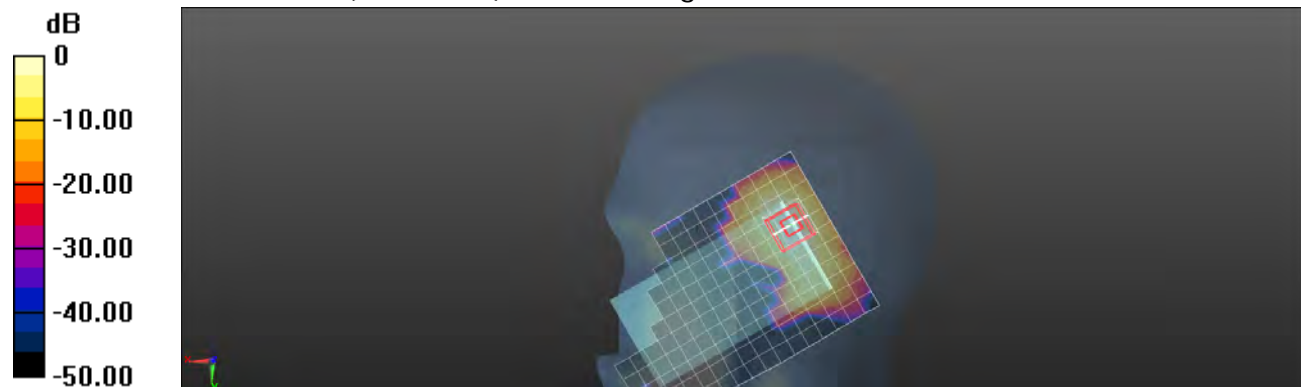
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.894 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Date: 2013/5/12

LE Cheek_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used: $f = 5280$ MHz; $\sigma = 4.682$ S/m; $\epsilon_r = 36.068$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.631 W/kg

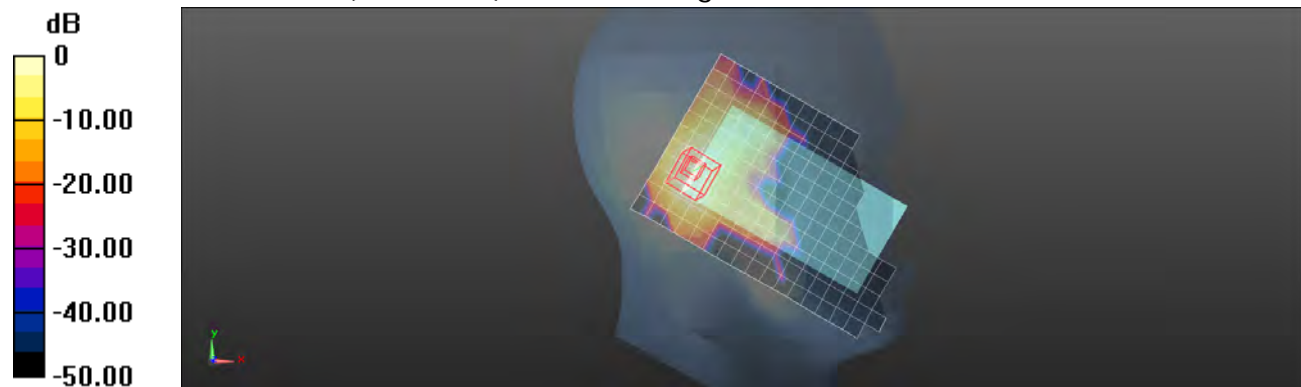
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.282 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.643 W/kg



0 dB = 0.643 W/kg = -1.92 dBW/kg

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Date: 2013/5/12

LE Tilt_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

 Medium parameters used: $f = 5280$ MHz; $\sigma = 4.682$ S/m; $\epsilon_r = 36.068$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.793 W/kg

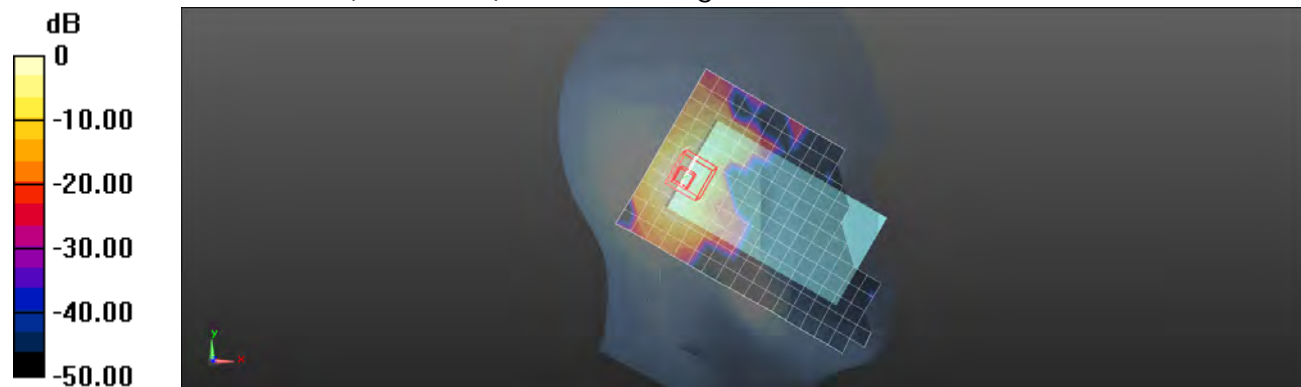
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.067 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.818 W/kg



0 dB = 0.818 W/kg = -0.87 dBW/kg

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Date: 2013/5/17

Hotspot mode_Front side_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

 Medium parameters used: $f = 5280$ MHz; $\sigma = 5.418$ S/m; $\epsilon_r = 49.382$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0914 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

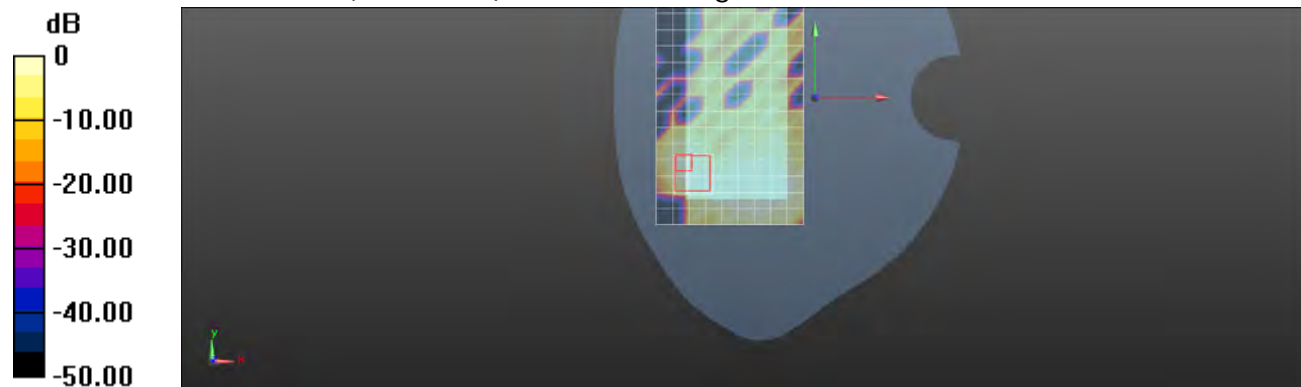
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.802 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.363 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0855 W/kg


 0 dB = 0.0855 W/kg = -10.68 dBW/kg

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Date: 2013/5/17

Hotspot mode_Back side_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used: $f = 5280$ MHz; $\sigma = 5.418$ S/m; $\epsilon_r = 49.382$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.270 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

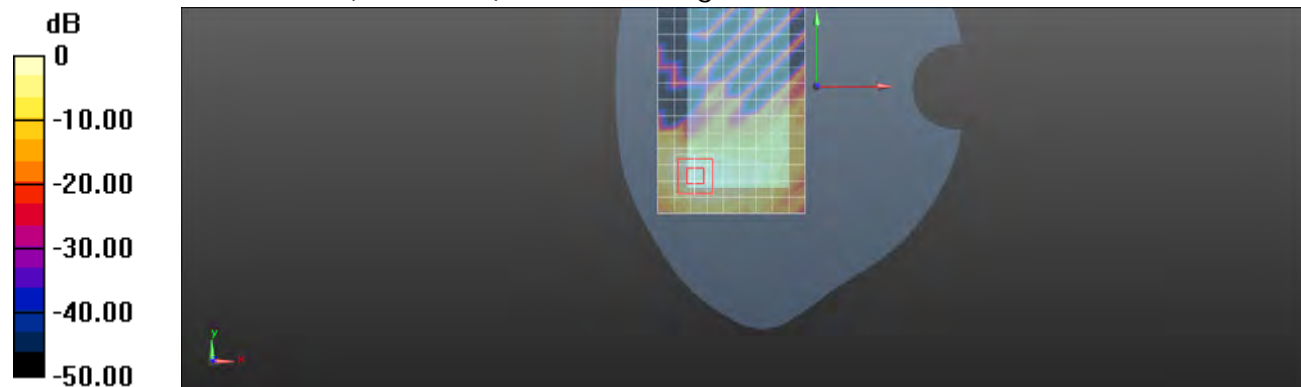
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.784 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.341 W/kg = -4.67 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

 Medium parameters used: $f = 5280$ MHz; $\sigma = 5.418$ S/m; $\epsilon_r = 49.382$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.309 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

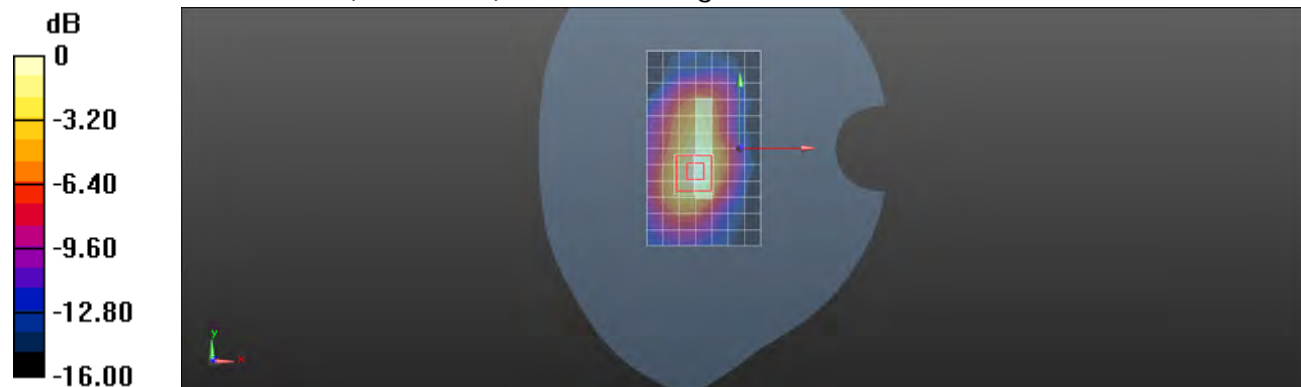
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.923 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.066 W/kg

Maximum value of SAR (measured) = 0.325 W/kg


 0 dB = 0.325 W/kg = -4.88 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11a 5.3G_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.443$ S/m; $\epsilon_r = 49.321$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.371 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

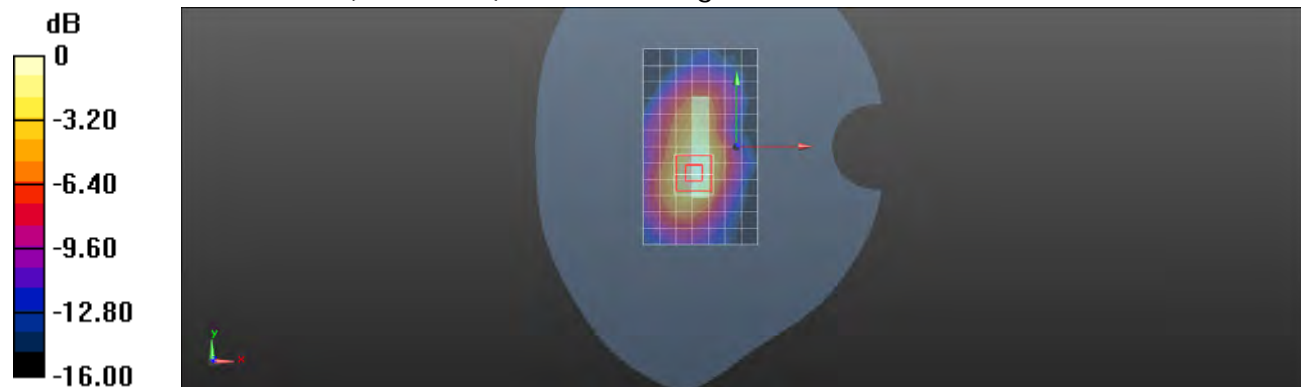
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.512 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.080 W/kg

Maximum value of SAR (measured) = 0.386 W/kg


 0 dB = 0.386 W/kg = -4.13 dBW/kg

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Date: 2013/5/17

Hotspot mode_Left side_WLAN802.11a 5.3G_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

 Medium parameters used: $f = 5280$ MHz; $\sigma = 5.418$ S/m; $\epsilon_r = 49.382$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.186 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

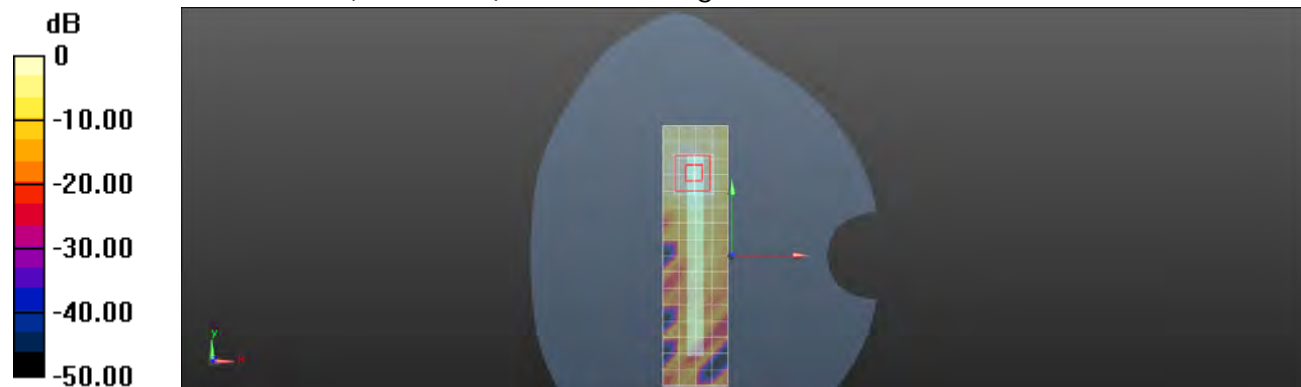
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.670 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.029 W/kg

Maximum value of SAR (measured) = 0.177 W/kg


 0 dB = 0.177 W/kg = -7.52 dBW/kg

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Date: 2013/5/12

RE Cheek_WLAN802.11n(20M) 5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.656 \text{ S/m}$; $\epsilon_r = 36.107$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.569 W/kg

Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.205 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.130 W/kg

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

Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 1: Measurement grid:

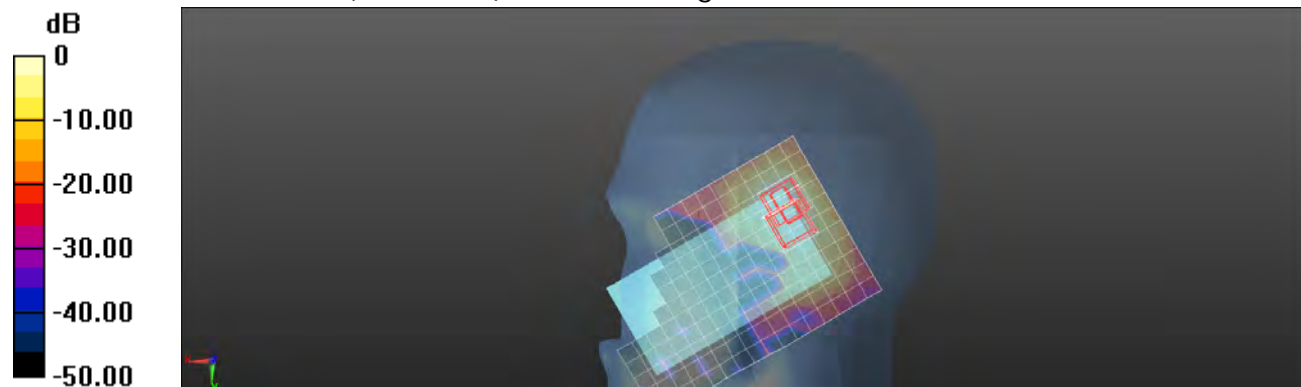
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.205 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.114 W/kg

Maximum value of SAR (measured) = 0.652 W/kg



0 dB = 0.652 W/kg = -1.86 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(20M) 5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.656 \text{ S/m}$; $\epsilon_r = 36.107$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.648 W/kg

Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 11.488 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.776 W/kg

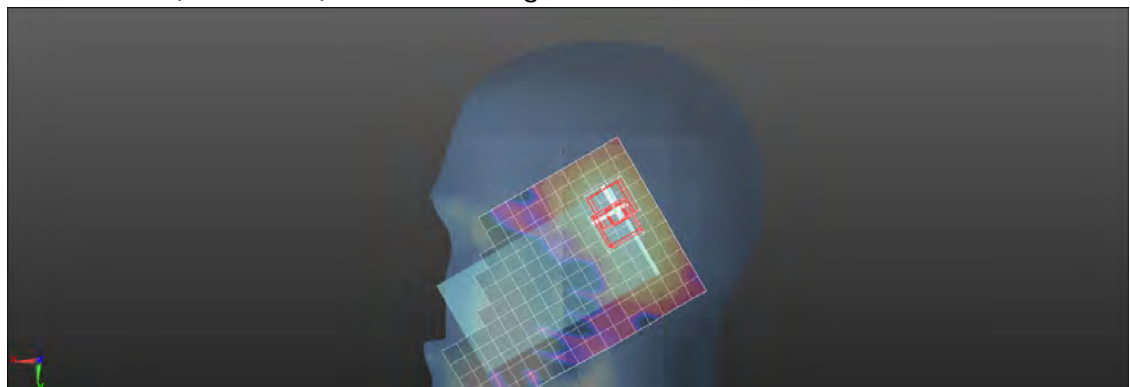
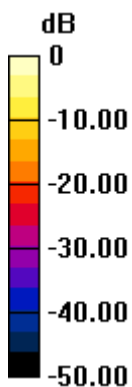
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 11.488 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.140 W/kg

Maximum value of SAR (measured) = 0.795 W/kg



0 dB = 0.795 W/kg = -1.00 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(20M) 5.3G_CH64

Communication System: WLAN 5G (FCC); Frequency: 5320 MHz

 Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 4.735 \text{ S/m}$; $\epsilon_r = 35.983$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.827 W/kg

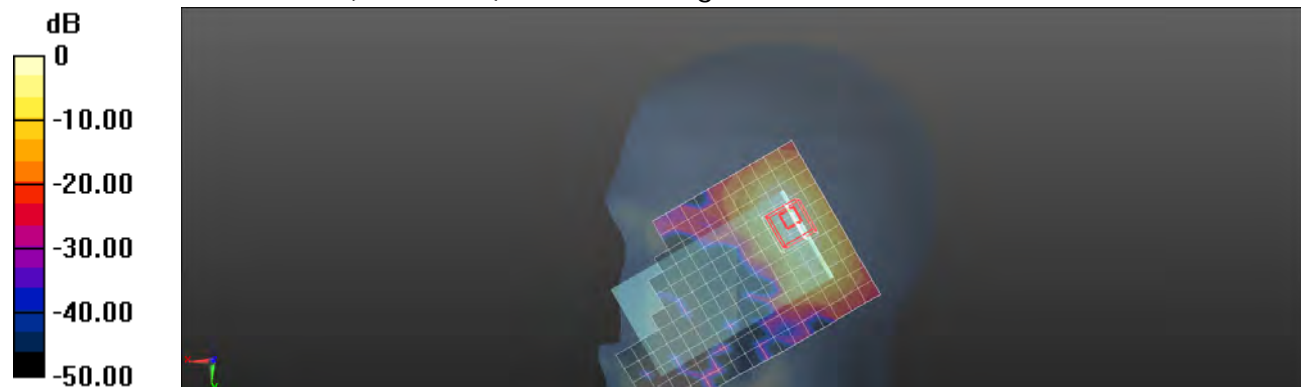
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 12.872 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.993 W/kg



0 dB = 0.993 W/kg = -0.03 dBW/kg

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Date: 2013/5/12

LE Cheek_WLAN802.11n(20M) 5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.656$ S/m; $\epsilon_r = 36.107$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.572 W/kg

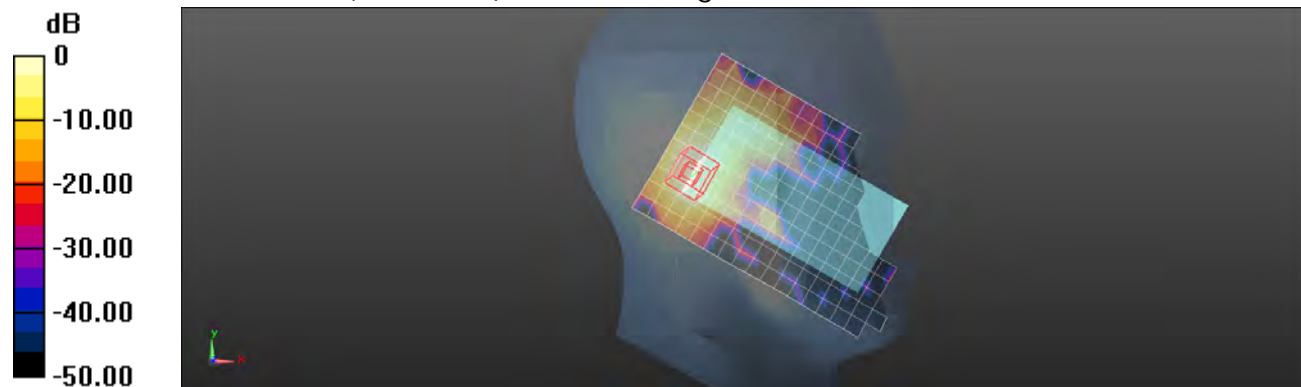
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.784 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.999 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.580 W/kg



0 dB = 0.580 W/kg = -2.37 dBW/kg

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Date: 2013/5/12

LE Tilt_WLAN802.11n(20M) 5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.656$ S/m; $\epsilon_r = 36.107$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.662 W/kg

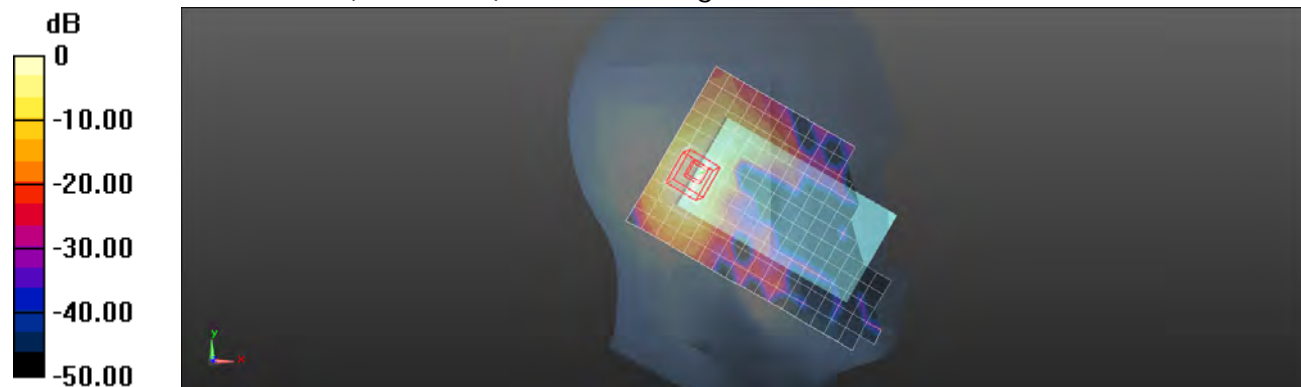
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.764 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.678 W/kg = -1.69 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Front side_WLAN802.11n(20M)5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 49.432$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0672 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.179 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.010 W/kg

Maximum value of SAR (measured) = 0.0838 W/kg



0 dB = 0.0838 W/kg = -10.77 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Back side_WLAN802.11n(20M)5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 49.432$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.239 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

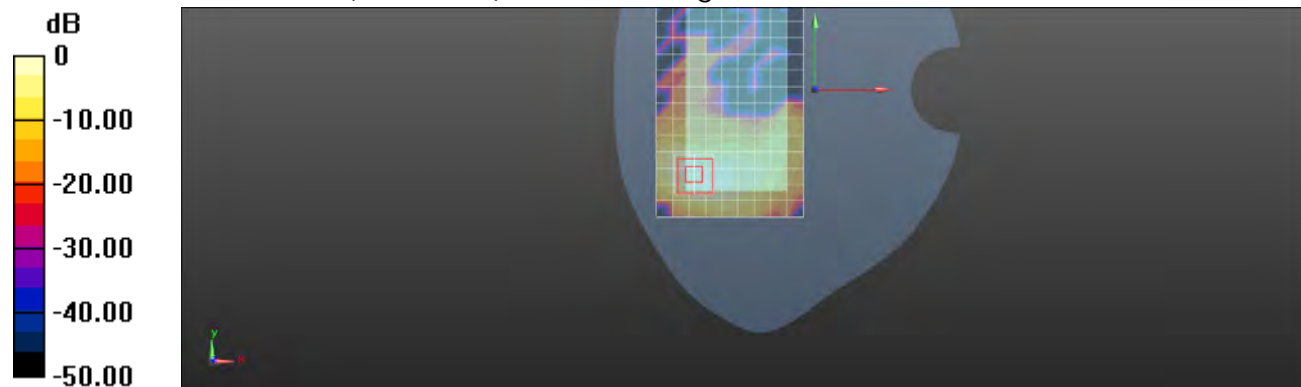
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.21 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.277 W/kg



0 dB = 0.277 W/kg = -5.58 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(20M) 5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 49.432$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.242 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

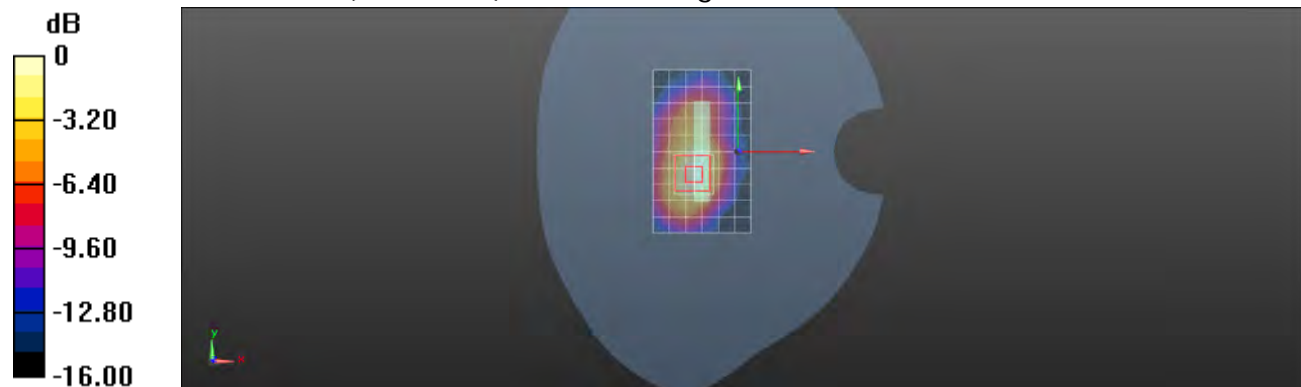
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.212 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.285 W/kg


 0 dB = 0.285 W/kg = -5.45 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(20M) 5.3G_CH64

Communication System: WLAN 5G (FCC); Frequency: 5320 MHz

 Medium parameters used: $f = 5320$ MHz; $\sigma = 5.477$ S/m; $\epsilon_r = 48.28$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.342 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

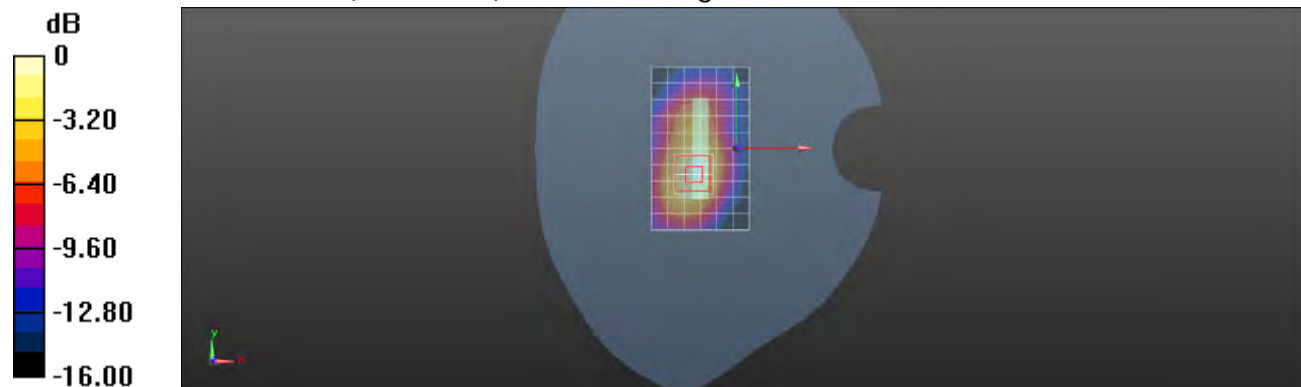
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.374 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.389 W/kg


 0 dB = 0.389 W/kg = -4.10 dBW/kg

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Date: 2013/5/17

Hotspot mode_Left side_WLAN802.11n(20M) 5.3G_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 49.432$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.117 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.190 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.128 W/kg


 0 dB = 0.128 W/kg = -8.93 dBW/kg

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Date: 2013/5/12

RE Cheek_WLAN802.11n(40M) 5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.669 \text{ S/m}$; $\epsilon_r = 36.08$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.471 W/kg

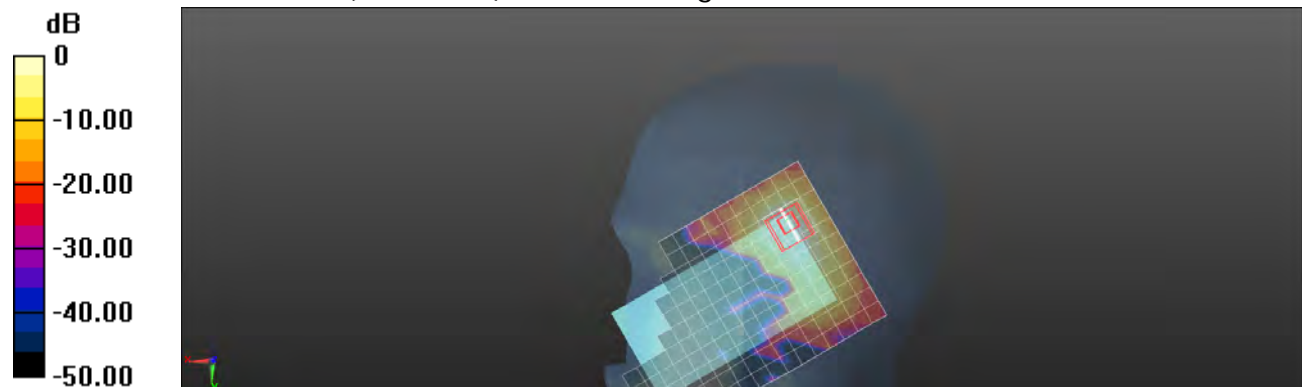
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.284 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.551 W/kg = -2.59 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(40M) 5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.669 \text{ S/m}$; $\epsilon_r = 36.08$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.541 W/kg

Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.463 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.635 W/kg

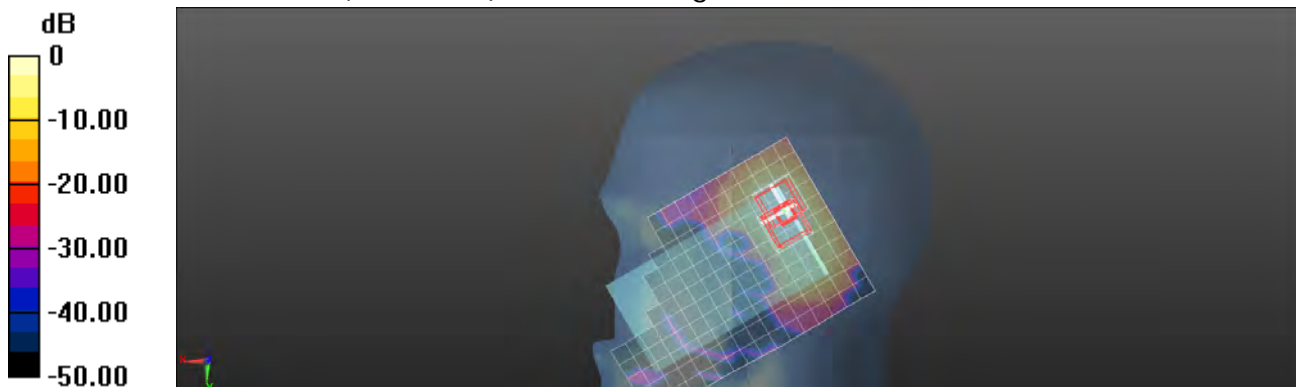
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.463 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.114 W/kg

Maximum value of SAR (measured) = 0.651 W/kg



0 dB = 0.651 W/kg = -1.86 dBW/kg

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Date: 2013/5/12

RE Tilt_WLAN802.11n(40M) 5.3G_CH62

Communication System: WLAN 5G (FCC); Frequency: 5310 MHz

Medium parameters used: $f = 5310 \text{ MHz}$; $\sigma = 4.722 \text{ S/m}$; $\epsilon_r = 36.011$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.572 W/kg

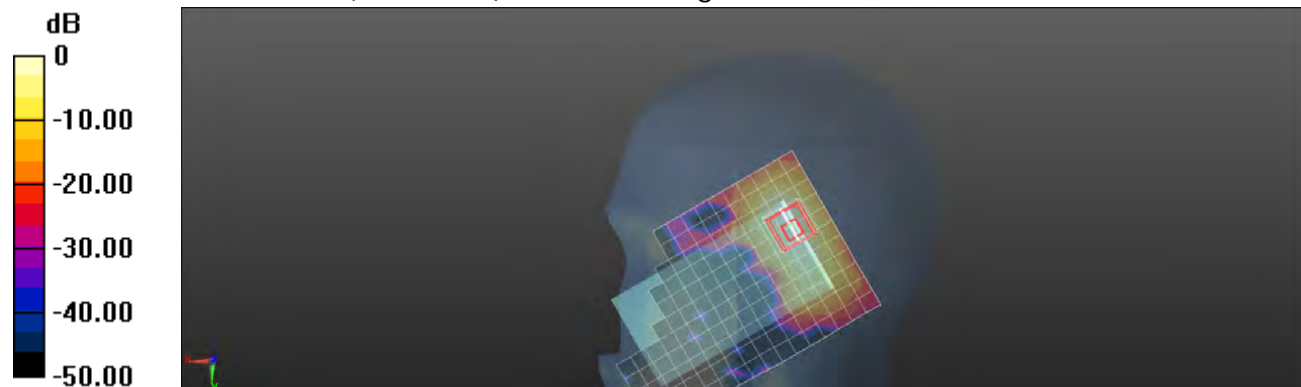
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.756 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.678 W/kg = -1.69 dBW/kg

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Date: 2013/5/12

LE Cheek_WLAN802.11n(40M) 5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

 Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.669 \text{ S/m}$; $\epsilon_r = 36.08$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.458 W/kg

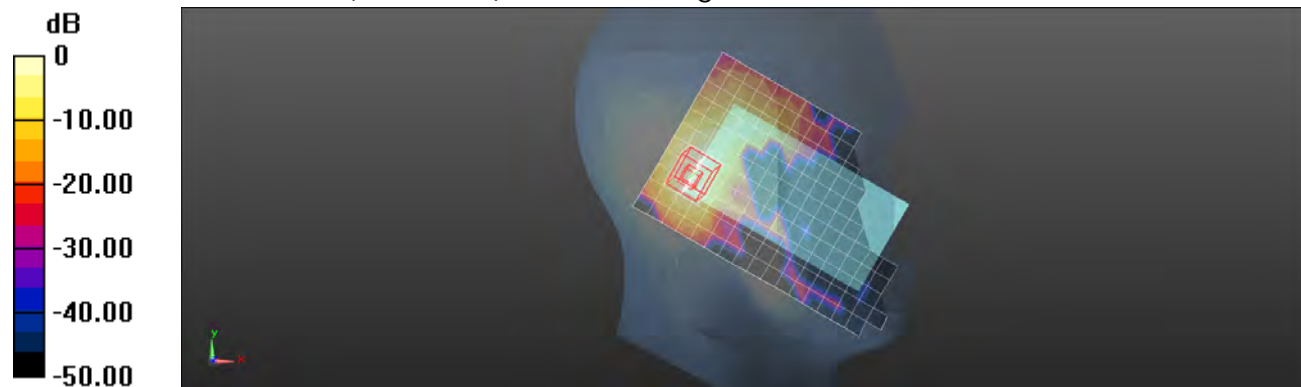
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.606 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.471 W/kg



0 dB = 0.471 W/kg = -3.27 dBW/kg

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Date: 2013/5/12

LE Tilt_WLAN802.11n(40M) 5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.669$ S/m; $\epsilon_r = 36.08$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.529 W/kg

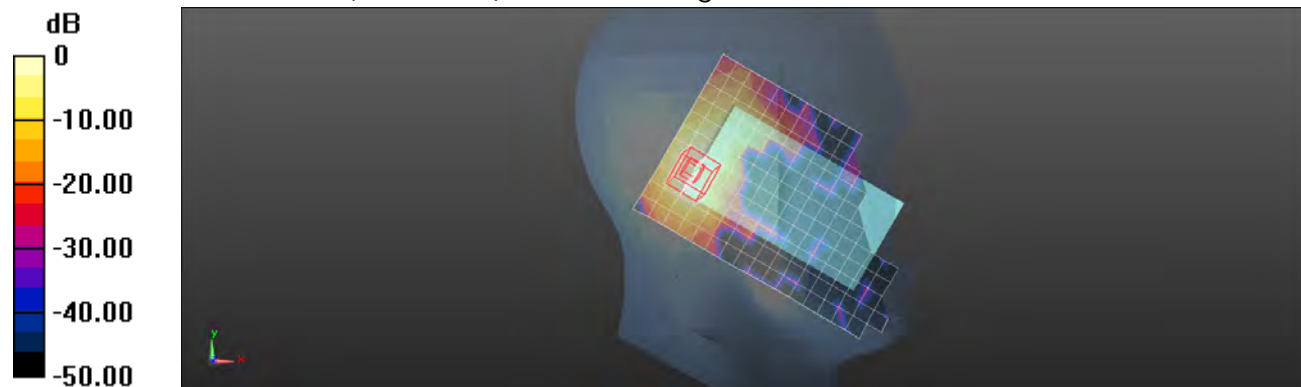
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.047 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.963 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.540 W/kg



0 dB = 0.540 W/kg = -2.68 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Front side_WLAN802.11n(40M)5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used: $f = 5270$ MHz; $\sigma = 5.404$ S/m; $\epsilon_r = 49.414$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0554 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

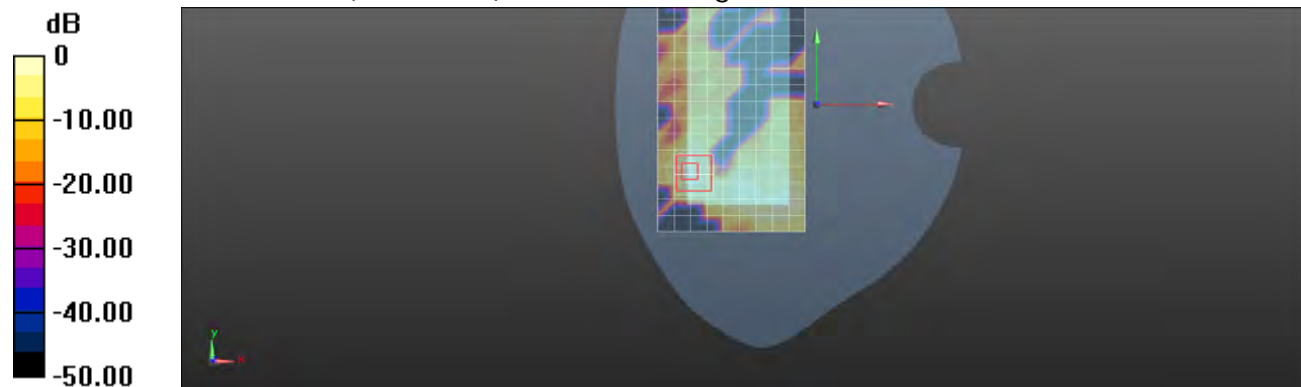
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.813 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0648 W/kg



0 dB = 0.0648 W/kg = -11.88 dBW/kg

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Date: 2013/5/17

Hotspot mode_ Back side_WLAN802.11n(40M)5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

 Medium parameters used: $f = 5270$ MHz; $\sigma = 5.404$ S/m; $\epsilon_r = 49.414$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.209 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

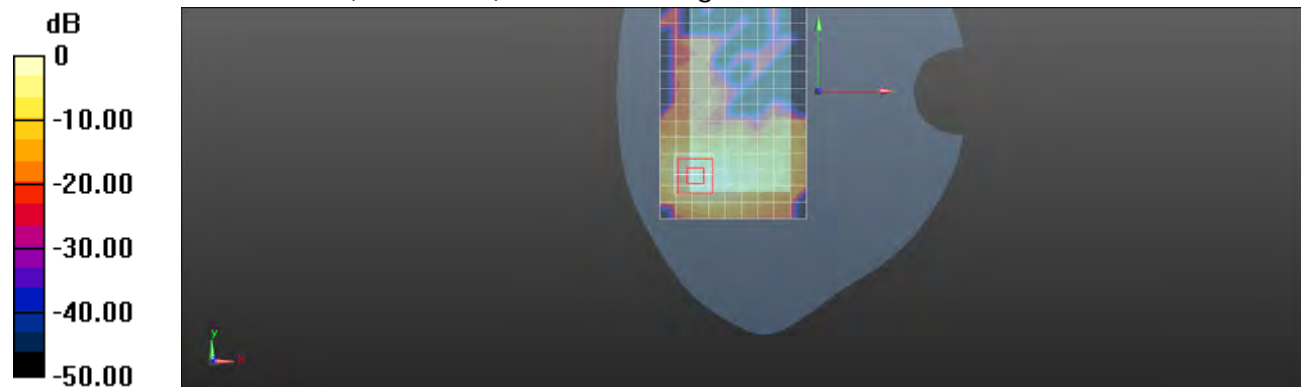
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.232 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.238 W/kg


 0 dB = 0.238 W/kg = -6.23 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(40M) 5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used: $f = 5270$ MHz; $\sigma = 5.404$ S/m; $\epsilon_r = 49.414$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

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

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

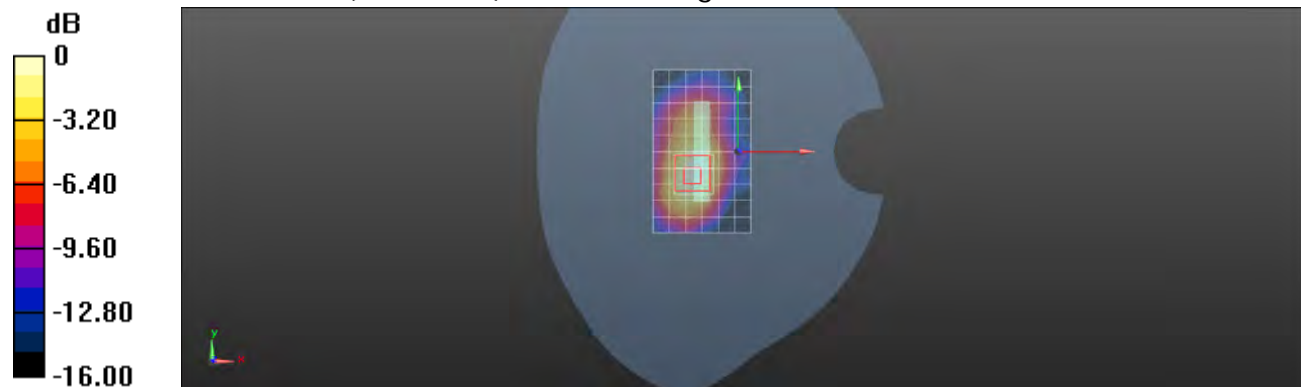
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.900 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.242 W/kg



0 dB = 0.242 W/kg = -6.16 dBW/kg

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Date: 2013/5/17

Hotspot mode_Top side_WLAN802.11n(40M) 5.3G_CH62

Communication System: WLAN 5G (FCC); Frequency: 5310 MHz

 Medium parameters used: $f = 5310$ MHz; $\sigma = 5.465$ S/m; $\epsilon_r = 49.302$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.239 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

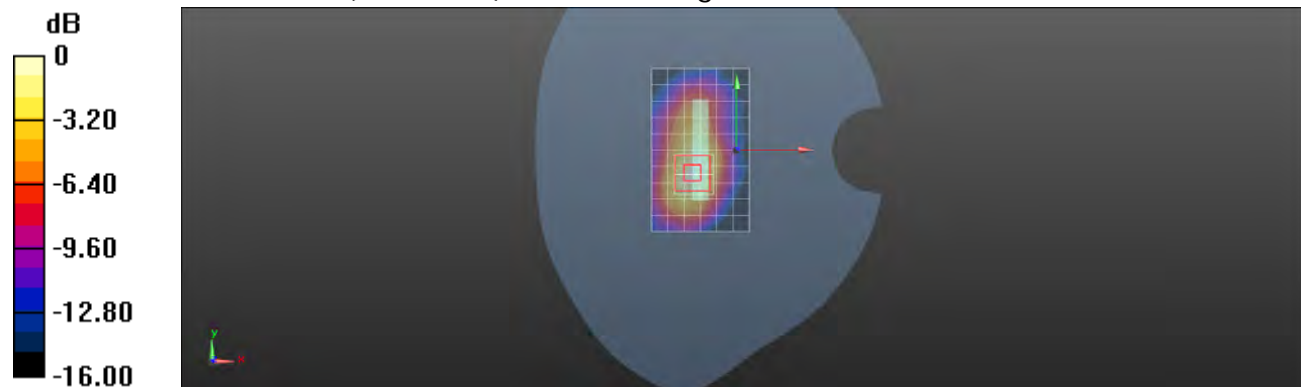
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.295 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.269 W/kg


 0 dB = 0.269 W/kg = -5.70 dBW/kg

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Date: 2013/5/17

Hotspot mode_Left side_WLAN802.11n(40M) 5.3G_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

 Medium parameters used: $f = 5270$ MHz; $\sigma = 5.404$ S/m; $\epsilon_r = 49.414$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.108 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

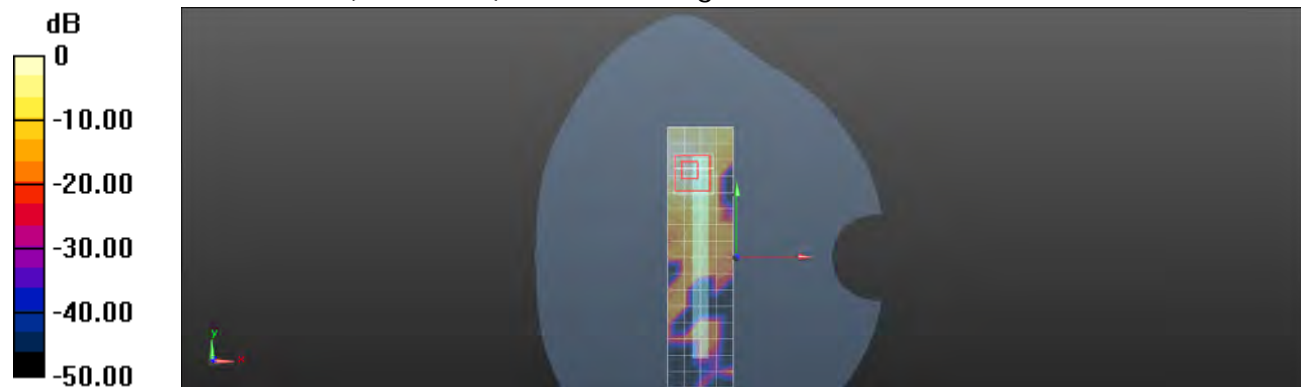
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.864 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.122 W/kg


 0 dB = 0.122 W/kg = -9.14 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11a 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.644 W/kg

Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.283 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.155 W/kg

Maximum value of SAR (measured) = 0.851 W/kg

Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 1: Measurement grid:

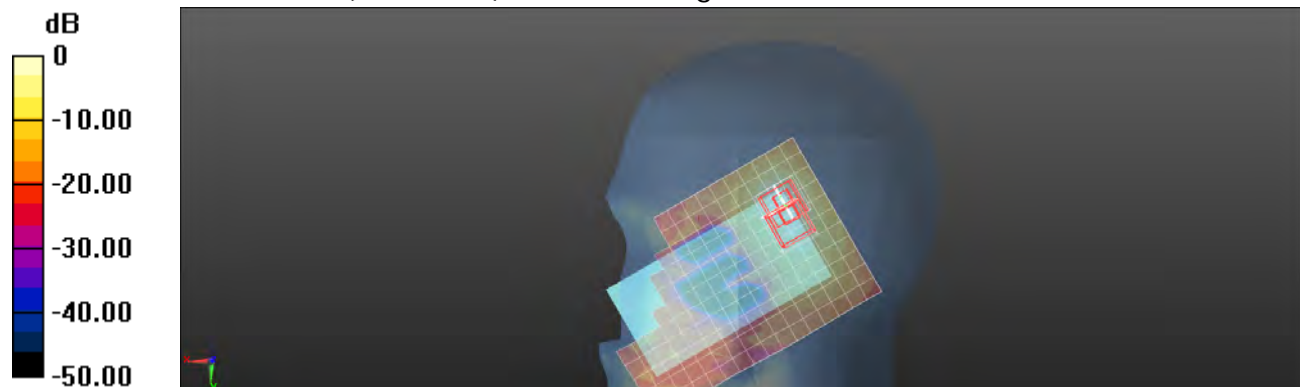
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.283 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.807 W/kg



0 dB = 0.807 W/kg = -0.93 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.088$ S/m; $\epsilon_r = 35.456$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.729 W/kg

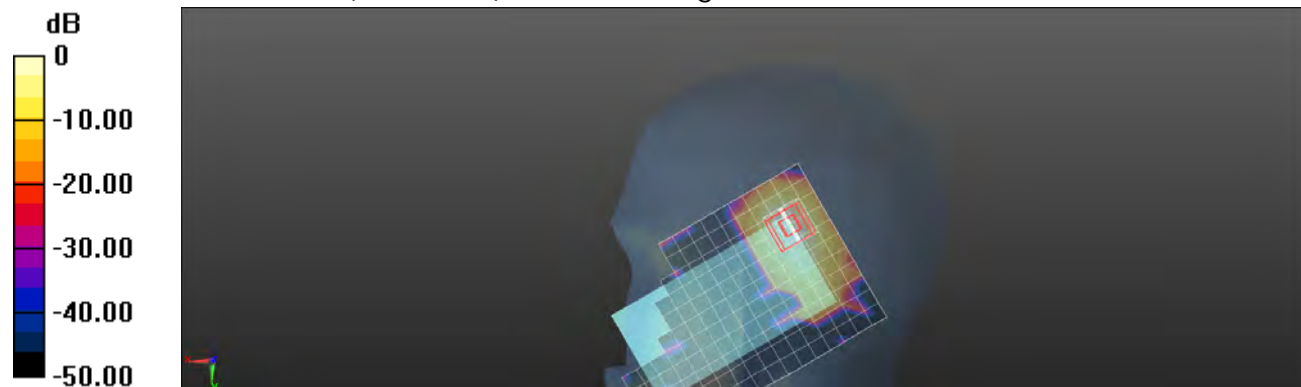
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.675 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.139 W/kg

Maximum value of SAR (measured) = 0.823 W/kg



0 dB = 0.823 W/kg = -0.85 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11a 5.5G_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used: $f = 5620$ MHz; $\sigma = 5.143$ S/m; $\epsilon_r = 36.371$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.02 W/kg

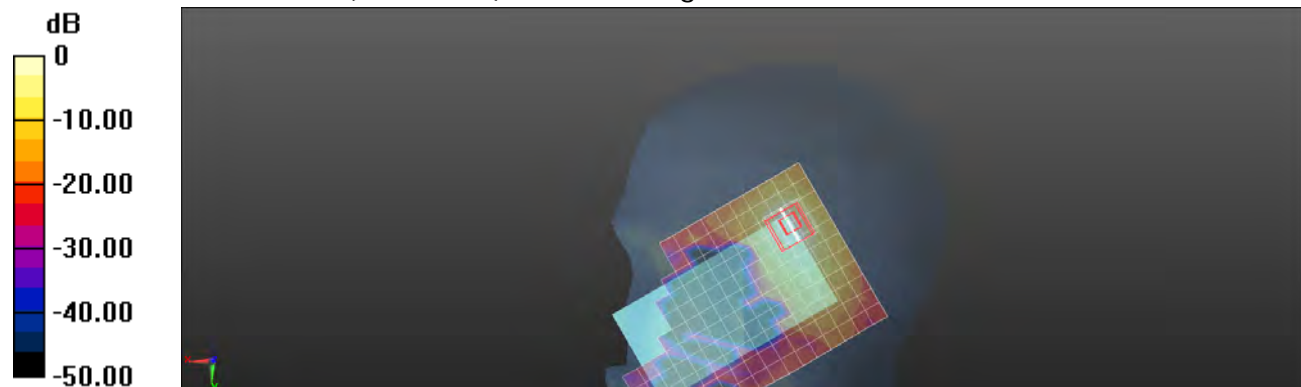
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.020 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.39 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11a 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.654 W/kg

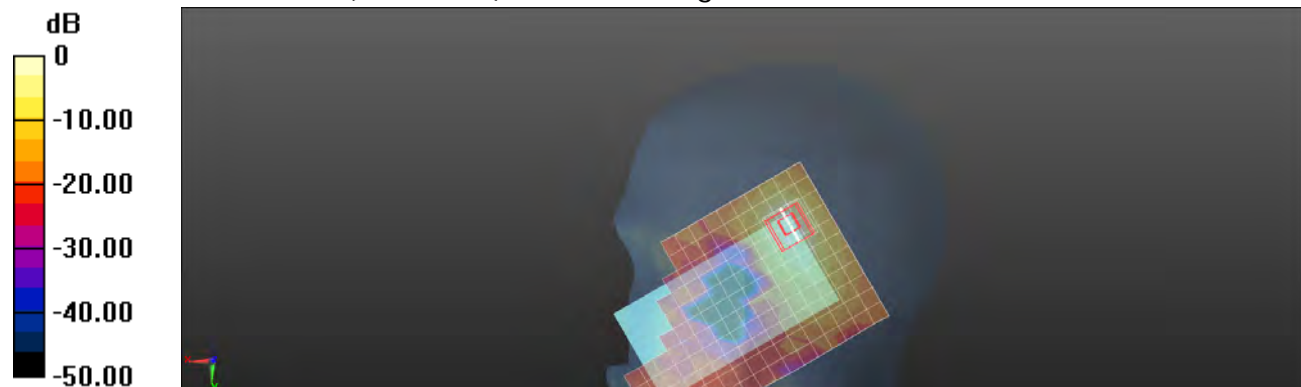
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.040 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.938 W/kg



0 dB = 0.938 W/kg = -0.28 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11a 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.795 W/kg

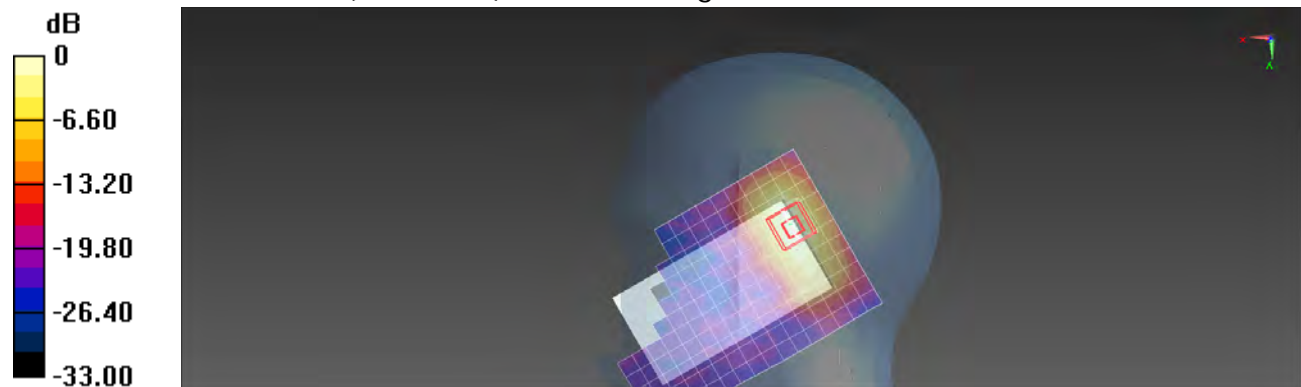
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.201 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.985 W/kg



0 dB = 0.985 W/kg = -0.07 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.088$ S/m; $\epsilon_r = 35.456$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.800 W/kg

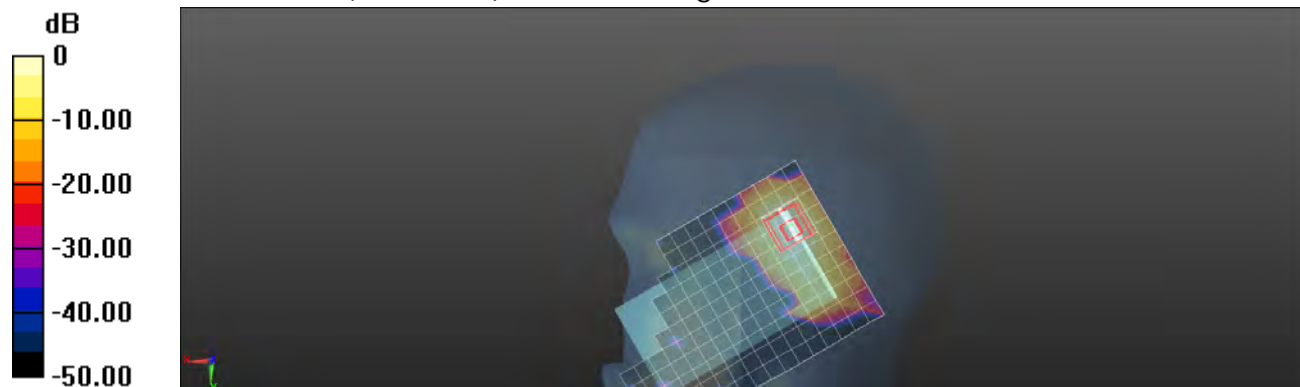
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.409 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.155 W/kg

Maximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg = -0.27 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11a 5.5G_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used: $f = 5620$ MHz; $\sigma = 5.143$ S/m; $\epsilon_r = 36.371$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.772 W/kg

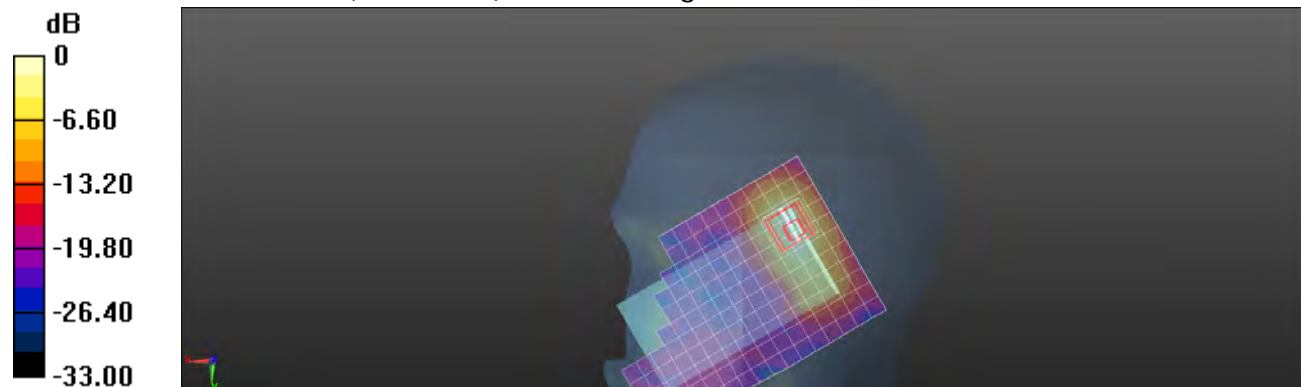
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.156 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.190 W/kg

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



0 dB = 1.07 W/kg = 0.29 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11a 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.697 W/kg

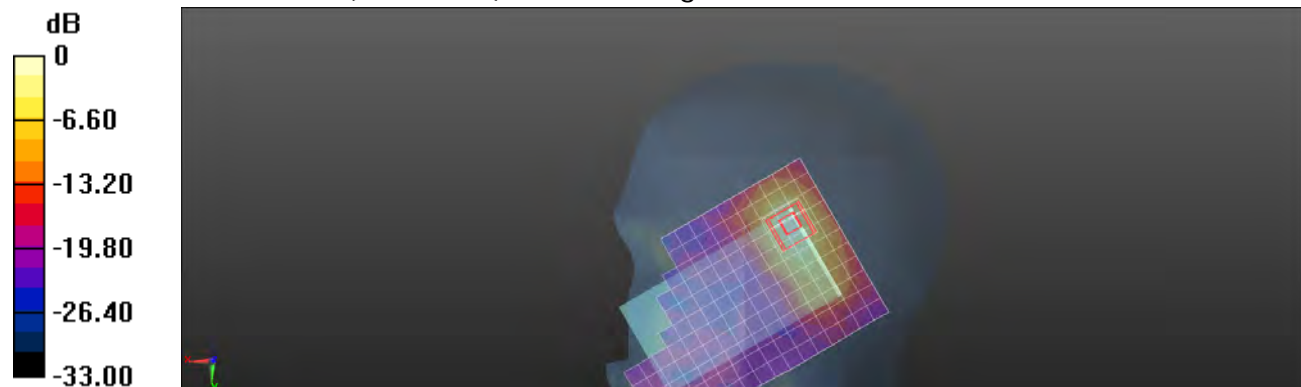
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.431 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11a 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.730 W/kg

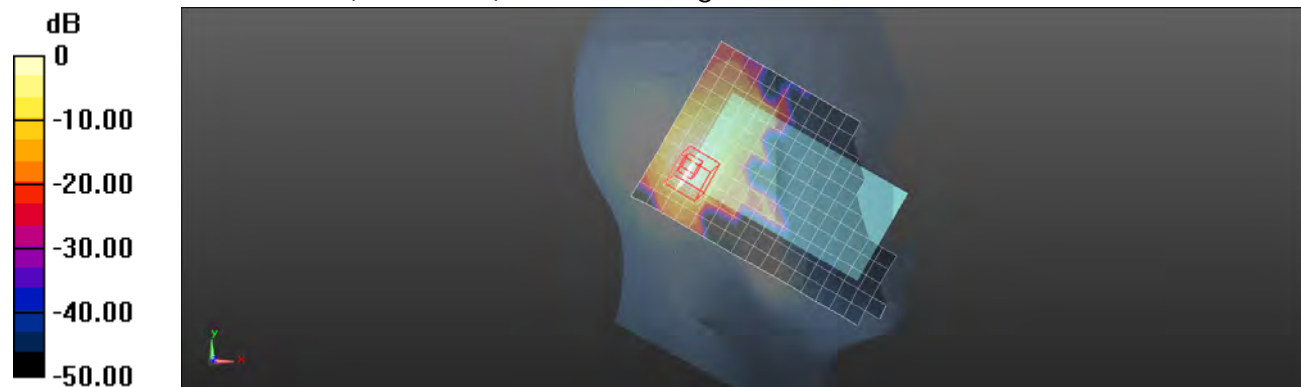
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.879 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 0.784 W/kg



0 dB = 0.784 W/kg = -1.06 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.088$ S/m; $\epsilon_r = 35.456$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.930 W/kg

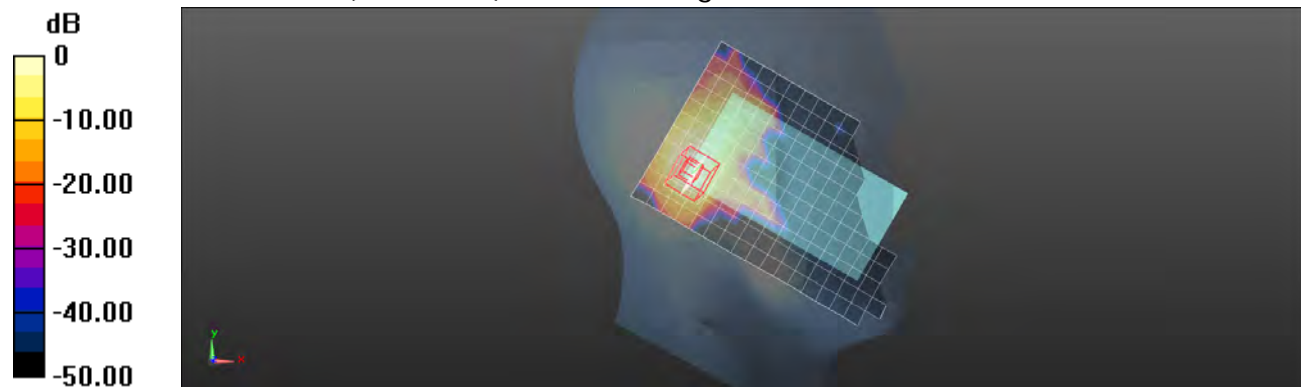
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.577 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.958 W/kg



0 dB = 0.958 W/kg = -0.19 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11a 5.5G_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used: $f = 5620$ MHz; $\sigma = 5.143$ S/m; $\epsilon_r = 36.371$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.02 W/kg

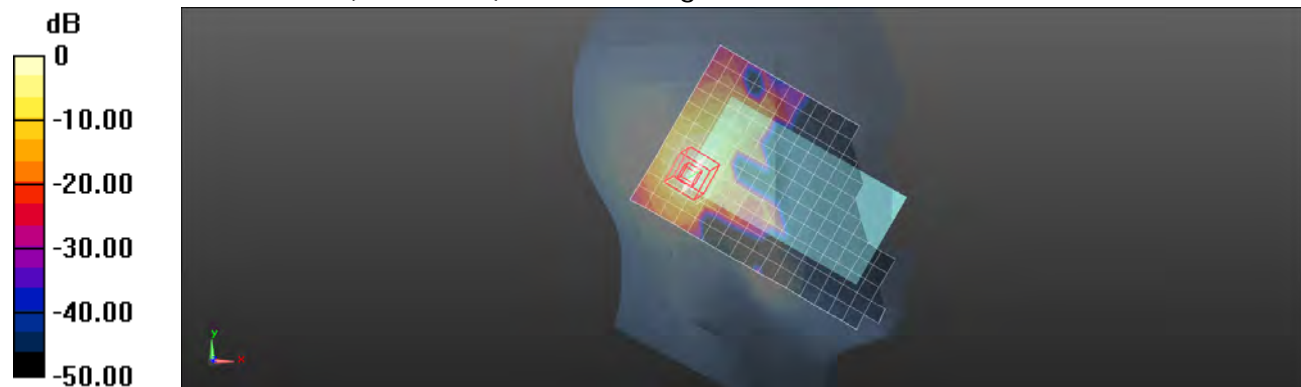
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.423 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11a 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.893 W/kg

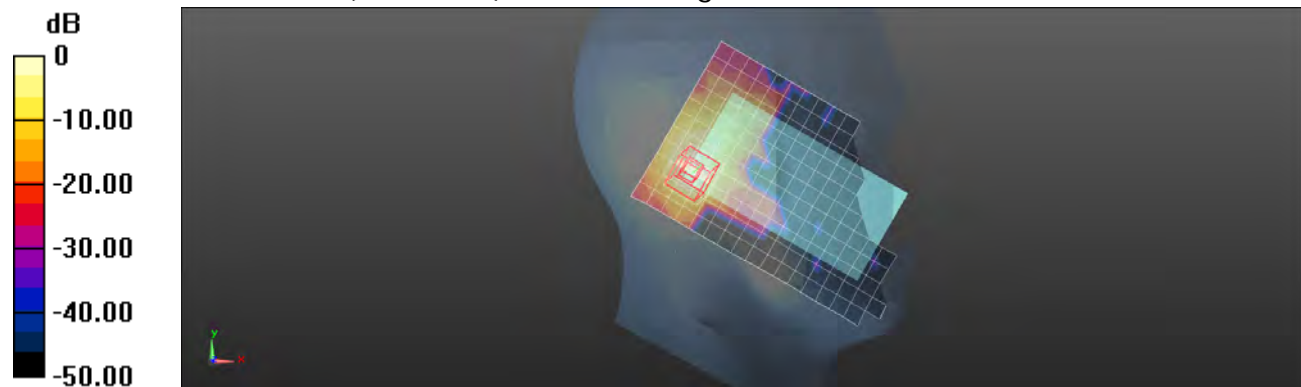
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.297 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11a 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.892 W/kg

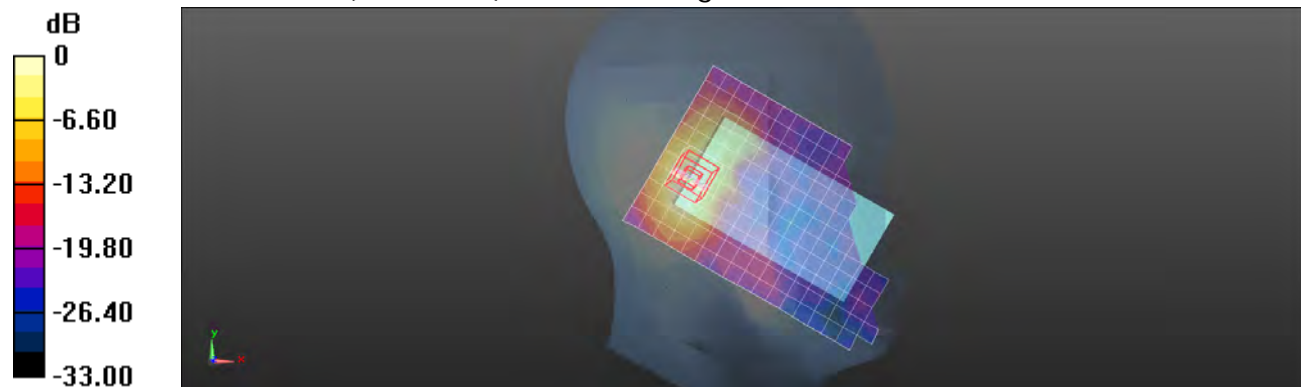
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.902 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg = -0.45 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.088 \text{ S/m}$; $\epsilon_r = 35.456$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.888 W/kg

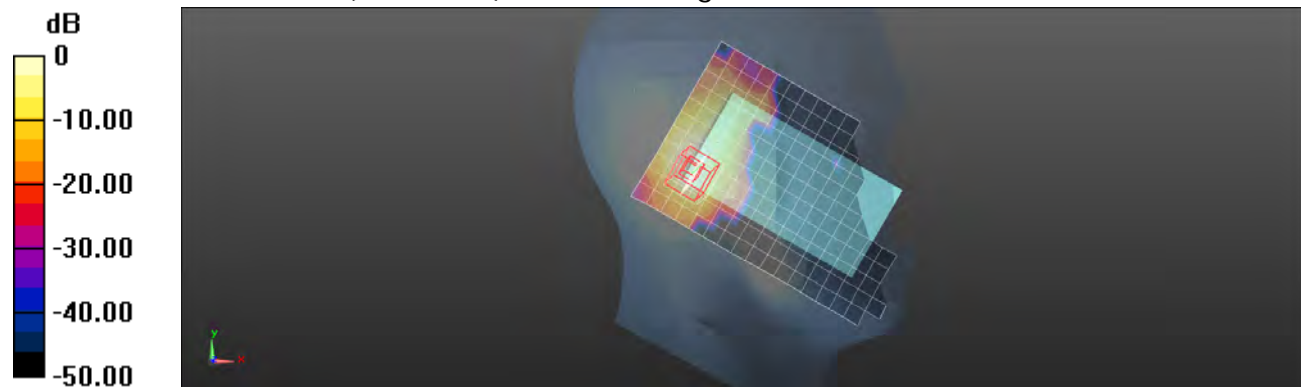
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.804 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg = -0.27 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11a 5.5G_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

 Medium parameters used: $f = 5620$ MHz; $\sigma = 5.143$ S/m; $\epsilon_r = 36.371$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

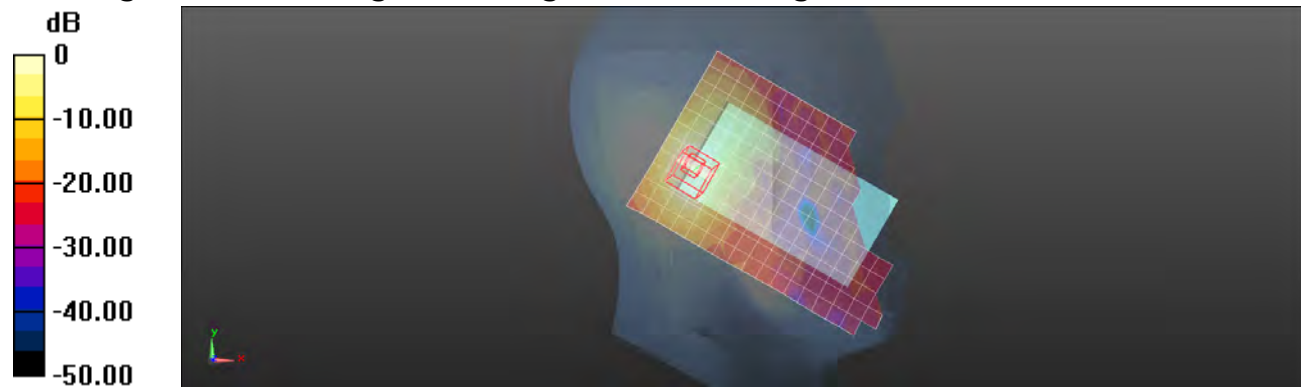
Maximum value of SAR (measured) = 1.09 W/kg

Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.069 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.233 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11a 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.745 W/kg

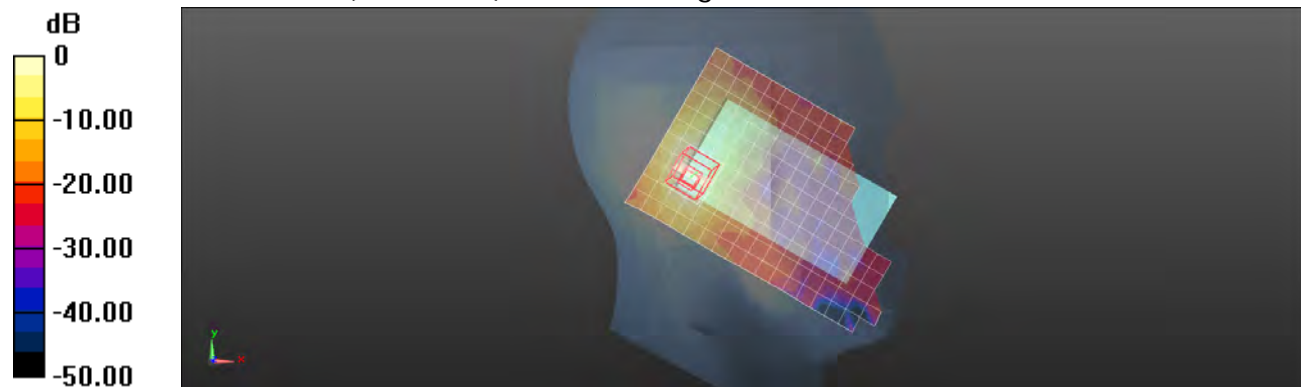
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.149 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.825 W/kg



0 dB = 0.825 W/kg = -0.84 dBW/kg

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Date: 2013/5/18

Hotspot mode_Front side_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.86 \text{ S/m}$; $\epsilon_r = 48.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0981 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

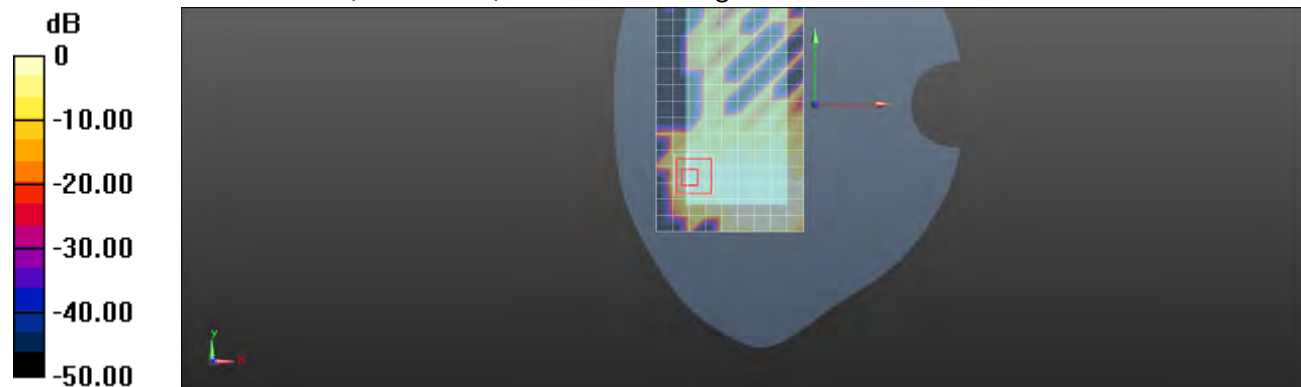
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.197 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.573 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0671 W/kg


 $0 \text{ dB} = 0.0671 \text{ W/kg} = -11.73 \text{ dBW/kg}$

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11a 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.734$ S/m; $\epsilon_r = 48.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.421 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

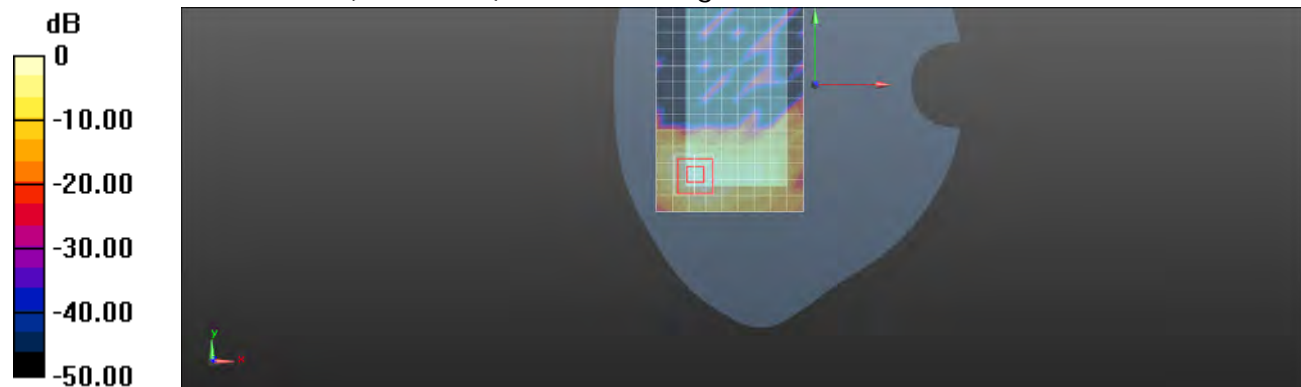
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.666 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.522 W/kg


 0 dB = 0.522 W/kg = -2.82 dBW/kg

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.86 \text{ S/m}$; $\epsilon_r = 48.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.559 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

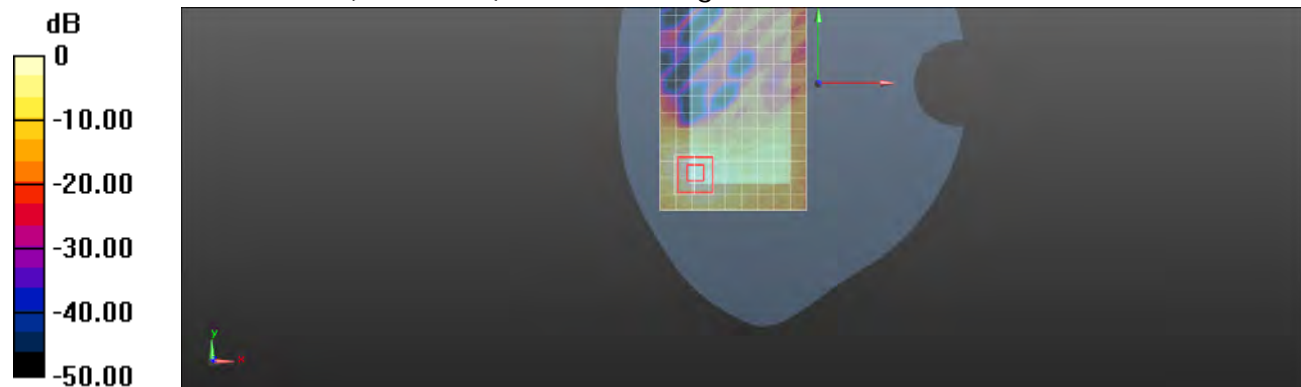
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.639 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.607 W/kg


 $0 \text{ dB} = 0.607 \text{ W/kg} = -2.17 \text{ dBW/kg}$

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11a 5.5G_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

 Medium parameters used: $f = 5620$ MHz; $\sigma = 5.907$ S/m; $\epsilon_r = 48.664$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.494 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.672 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.082 W/kg

Maximum value of SAR (measured) = 0.526 W/kg


 0 dB = 0.526 W/kg = -2.79 dBW/kg

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11a 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used: $f = 5700$ MHz; $\sigma = 6.038$ S/m; $\epsilon_r = 48.527$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.326 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

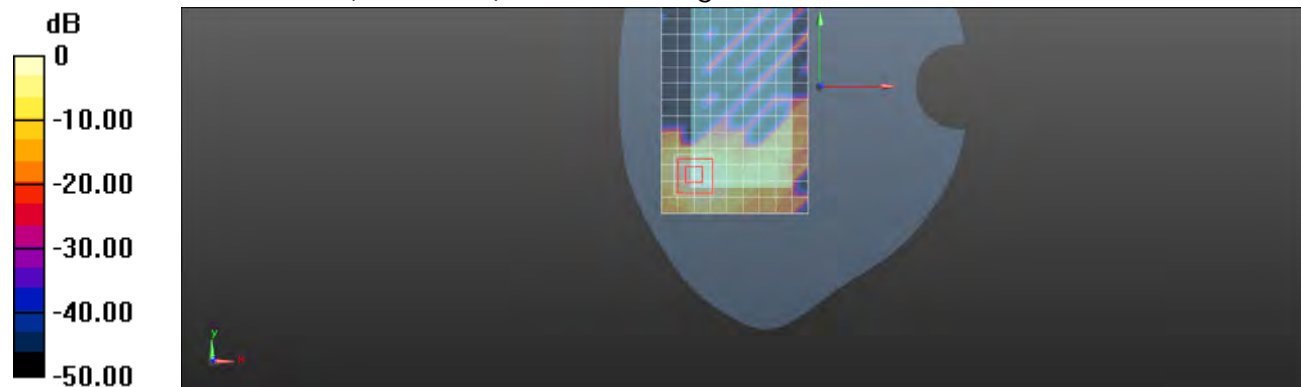
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.612 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.365 W/kg


 0 dB = 0.365 W/kg = -4.38 dBW/kg

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11a 5.5G_CH116_repeated with external Memory card inside

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.86$ S/m; $\epsilon_r = 48.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.326 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

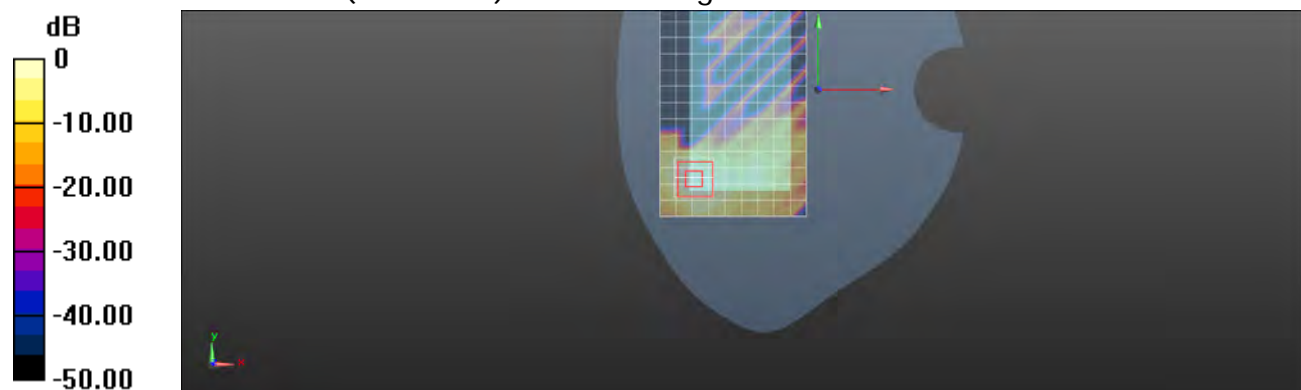
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.292 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.645 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.359 W/kg



0 dB = 0.359 W/kg = -4.45 dBW/kg

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11a 5.5G_CH116_repeated with headset (MH410C)

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.86 \text{ S/m}$; $\epsilon_r = 48.734$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.403 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.521V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.879 W/kg

SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.406 W/kg



0 dB = 0.406 W/kg = -3.91 dBW/kg

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Member of SGS Group

Date: 2013/5/18

Hotspot mode_Top side_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used: $f = 5580$ MHz; $\sigma = 5.86$ S/m; $\epsilon_r = 48.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

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

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

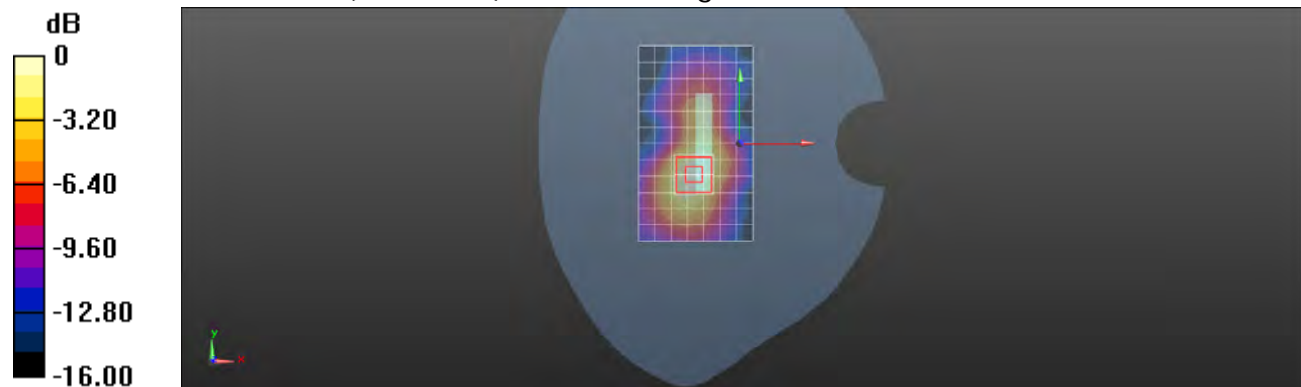
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.959 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.767 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.320 W/kg


 0 dB = 0.320 W/kg = -4.95 dBW/kg

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Date: 2013/5/18

Hotspot mode_Left side_WLAN802.11a 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.86$ S/m; $\epsilon_r = 48.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.182 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

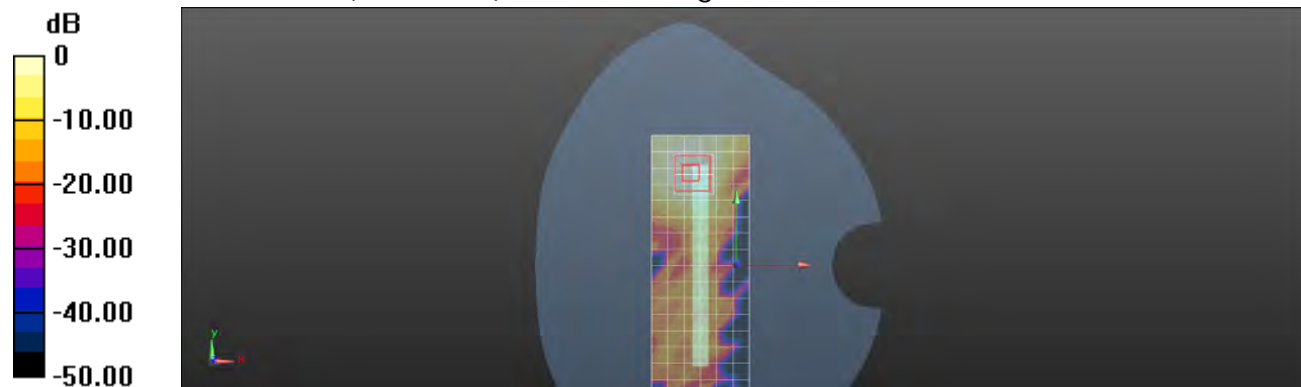
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.072 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.487 W/kg

SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.200 W/kg



0 dB = 0.200 W/kg = -6.99 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11n(20M) 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.793 W/kg

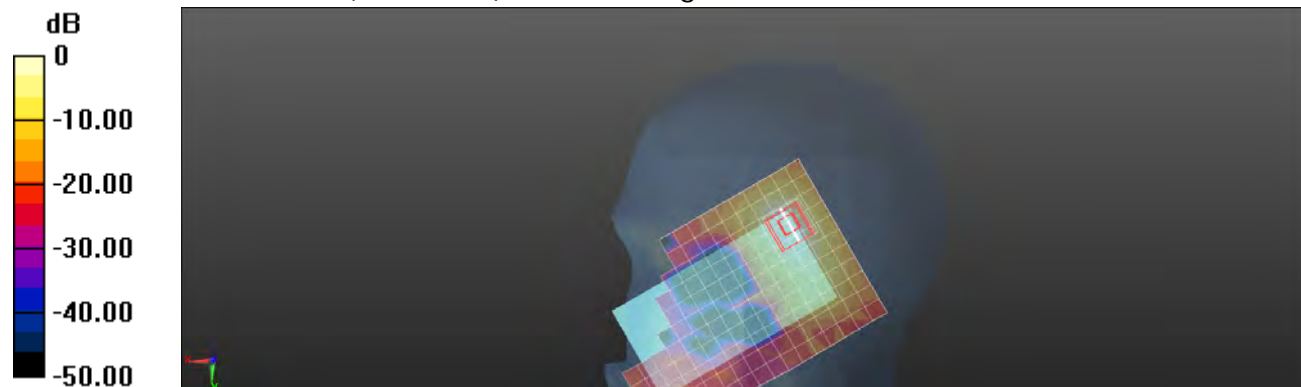
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.058 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11n(20M) 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.088$ S/m; $\epsilon_r = 35.456$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.871 W/kg

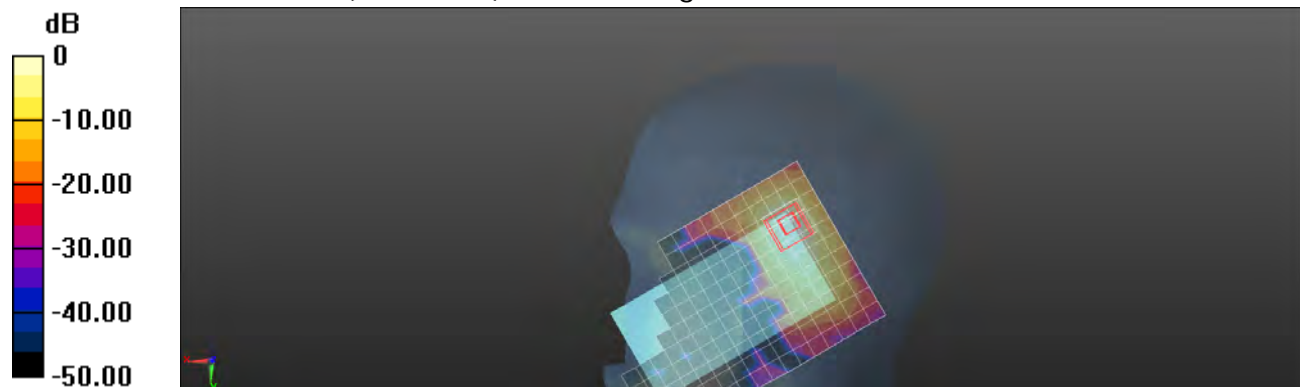
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.030 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.172 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11n(20M) 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.636 W/kg

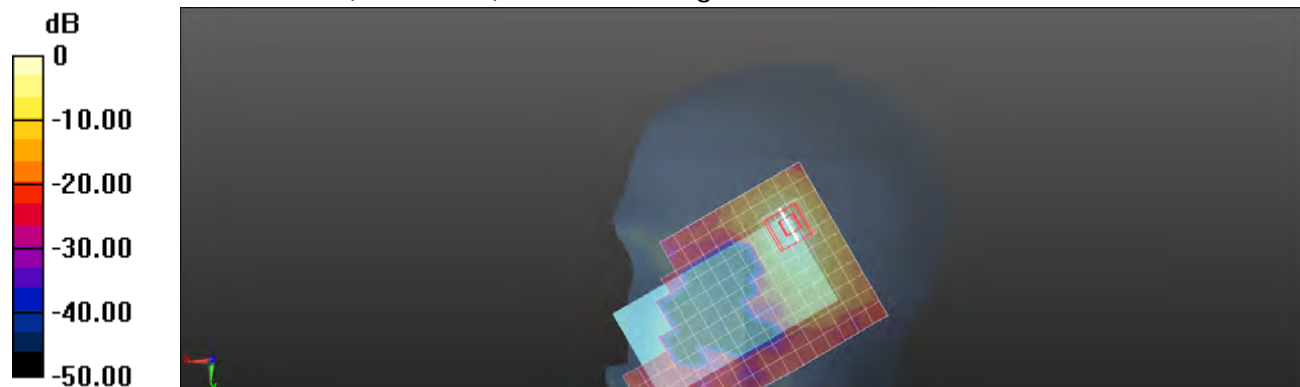
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.071 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.881 W/kg



0 dB = 0.881 W/kg = -0.55 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11n(20M) 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.939 W/kg

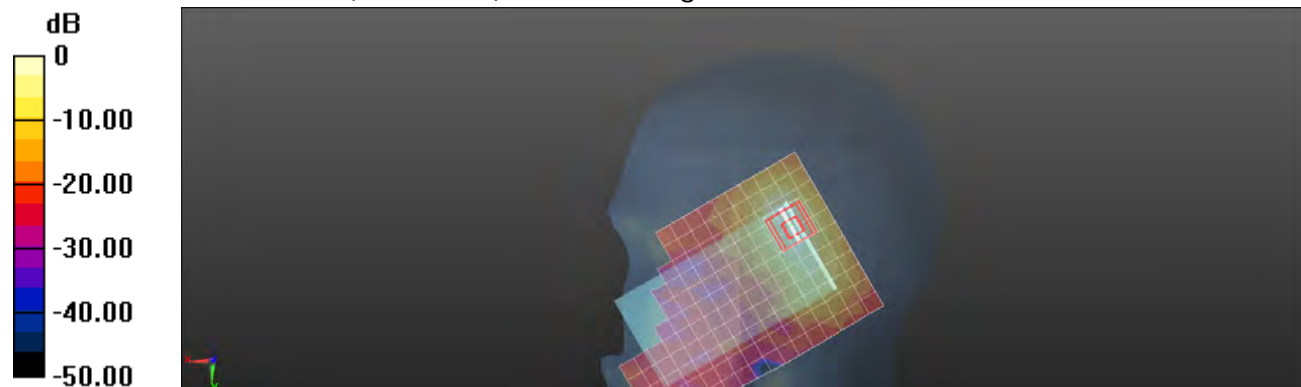
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.644 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.218 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11n(20M) 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.088 \text{ S/m}$; $\epsilon_r = 35.456$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.03 W/kg

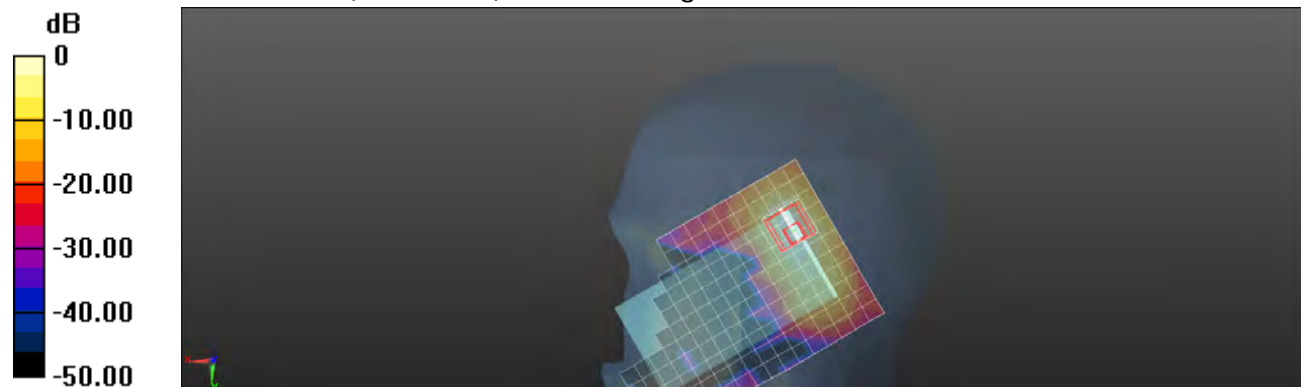
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 12.072 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11n(20M) 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.725 W/kg

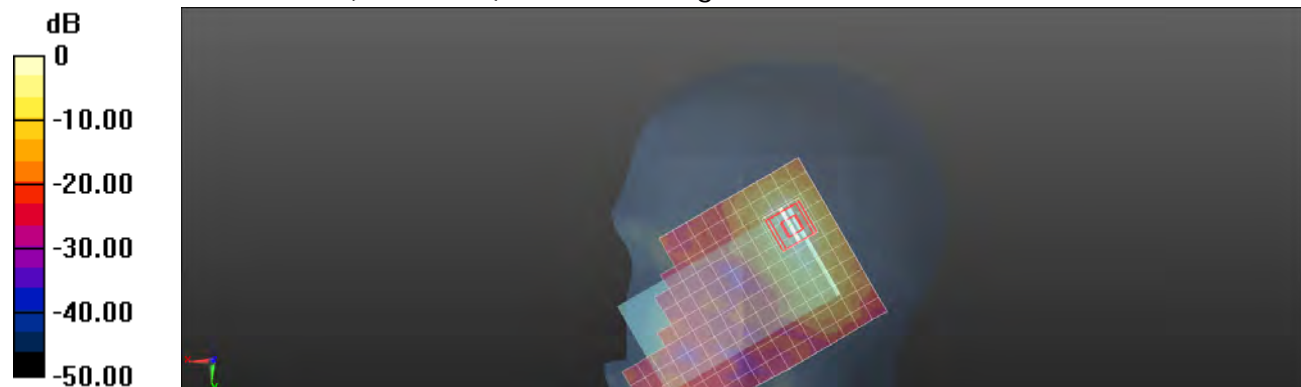
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.324 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.910 W/kg



0 dB = 0.910 W/kg = -0.41 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11n(20M) 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.892 W/kg

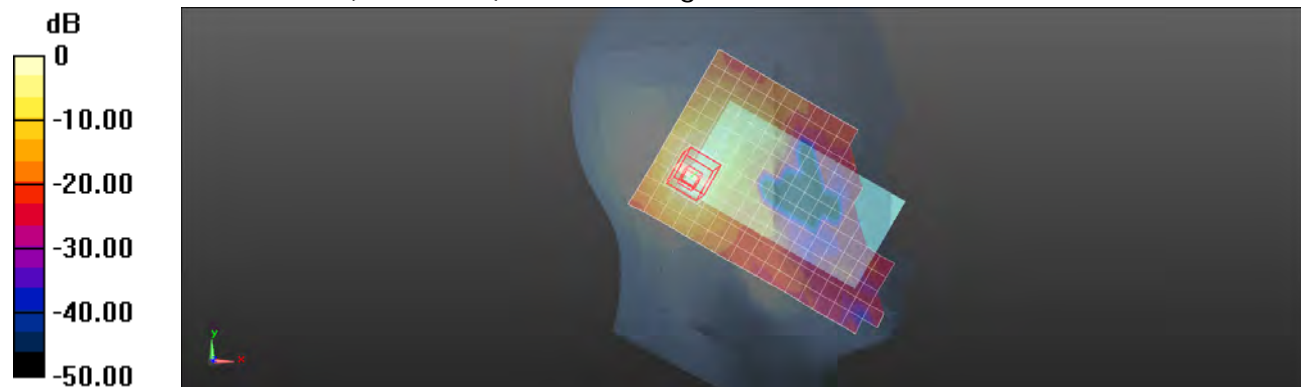
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.196 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11n(20M) 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.088 \text{ S/m}$; $\epsilon_r = 35.456$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.968 W/kg

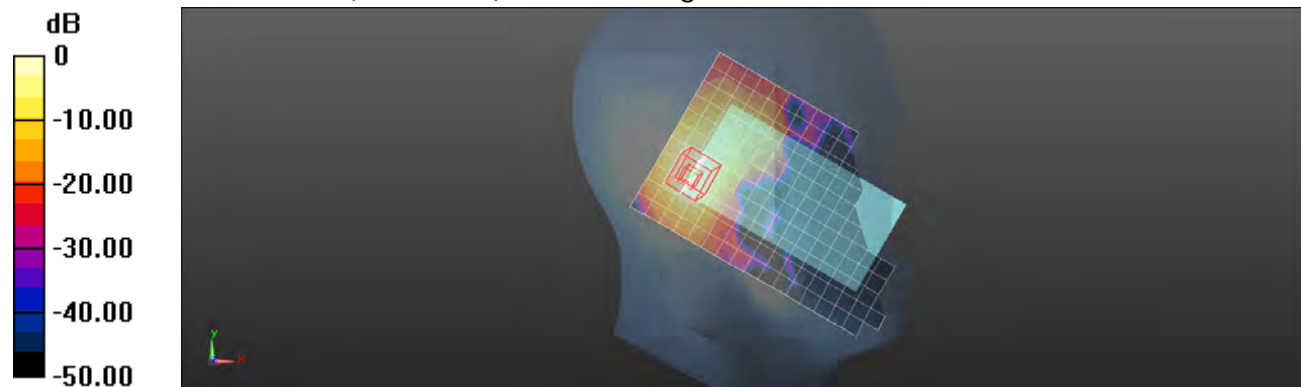
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.337 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.201 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11n(20M) 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.750 W/kg

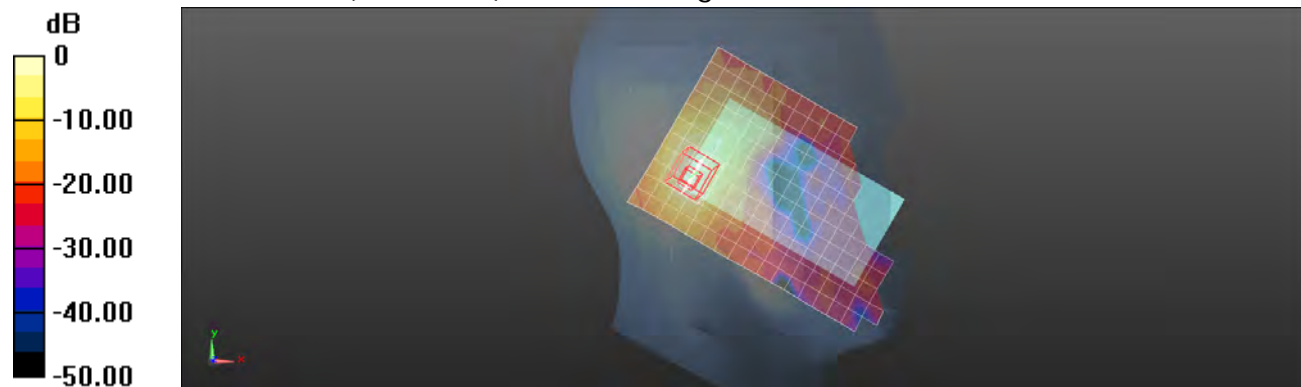
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.096 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.172 W/kg

Maximum value of SAR (measured) = 0.917 W/kg



0 dB = 0.917 W/kg = -0.38 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11n(20M) 5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.984 W/kg

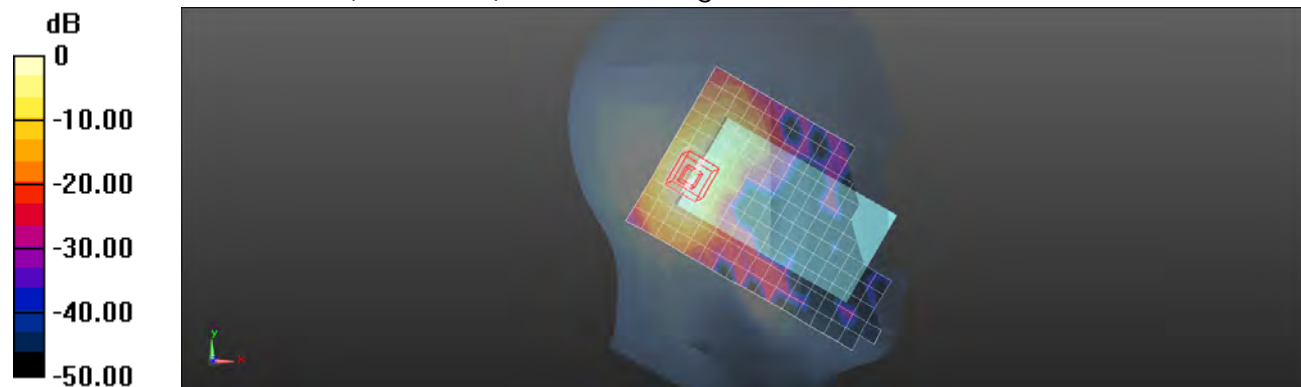
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.329 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.992 W/kg



0 dB = 0.992 W/kg = -0.03 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11n(20M) 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.088 \text{ S/m}$; $\epsilon_r = 35.456$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

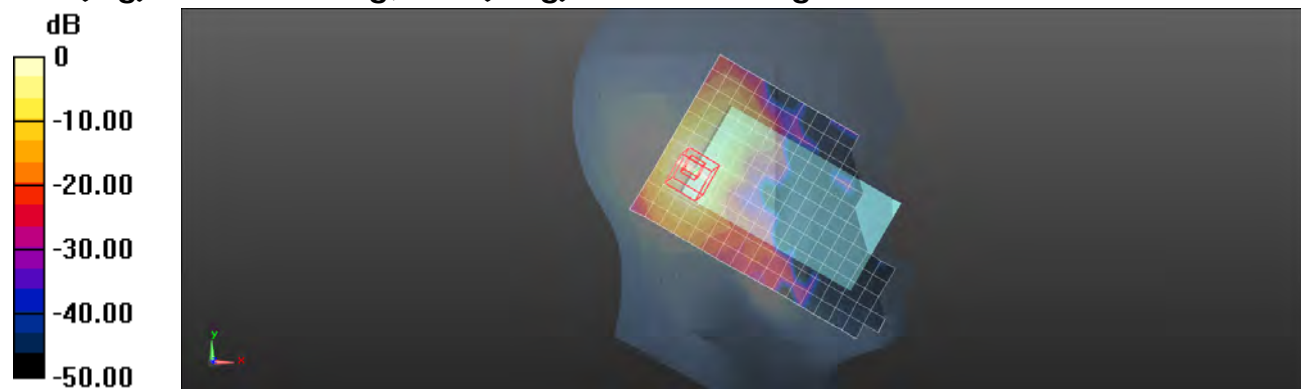
Maximum value of SAR (measured) = 1.10 W/kg

Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.701 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.217 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Member of SGS Group

Date: 2013/5/15

LE Tilt_WLAN802.11n(20M) 5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 35.202$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.678 W/kg

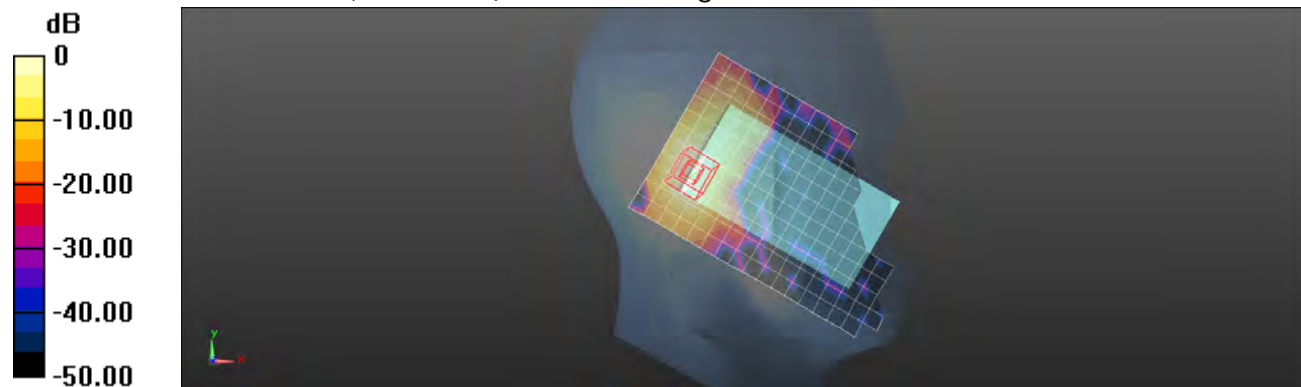
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.579 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.142 W/kg

Maximum value of SAR (measured) = 0.724 W/kg



0 dB = 0.724 W/kg = -1.40 dBW/kg

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Date: 2013/5/18

Hotspot mode_ Front side_WLAN802.11n(20M)5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.86$ S/m; $\epsilon_r = 48.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.105 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

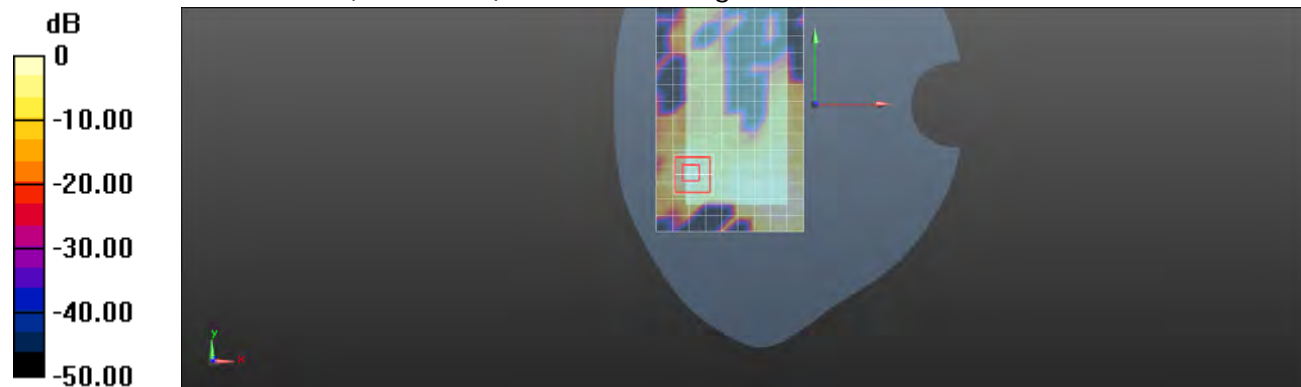
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.771 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0818 W/kg



0 dB = 0.0818 W/kg = -10.87 dBW/kg

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Date: 2013/5/18

Hotspot mode_ Back side_WLAN802.11n(20M)5.5G_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.734$ S/m; $\epsilon_r = 48.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.510 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

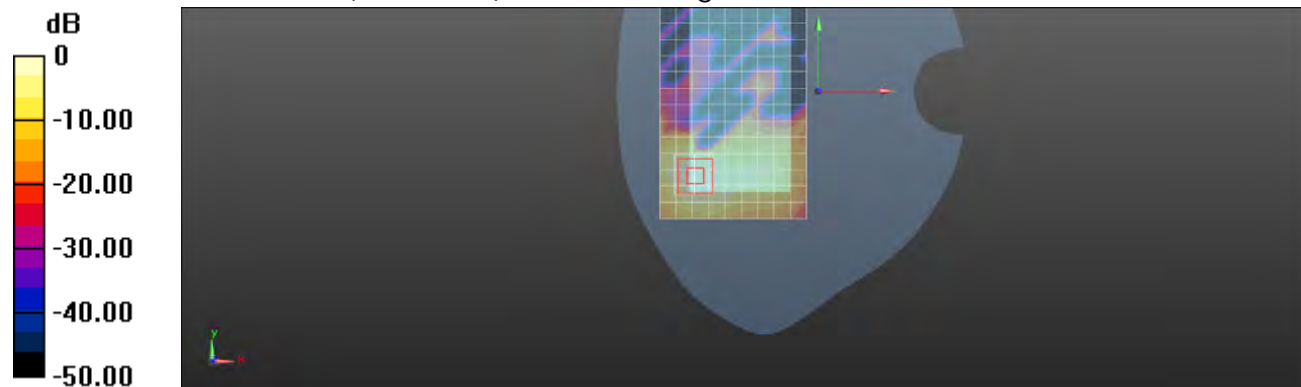
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.573 W/kg


 0 dB = 0.573 W/kg = -2.42 dBW/kg

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Date: 2013/5/18

Hotspot mode_ Back side_WLAN802.11n(20M)5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used: $f = 5580$ MHz; $\sigma = 5.86$ S/m; $\epsilon_r = 48.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.355 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

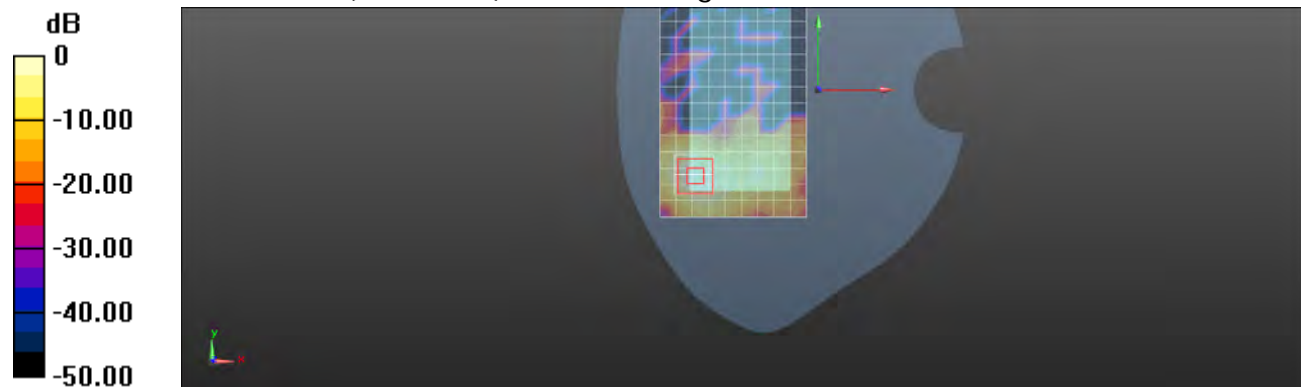
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 7.149 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.992 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.426 W/kg


 0 dB = 0.426 W/kg = -3.71 dBW/kg

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Member of SGS Group

Date: 2013/5/18

Hotspot mode_ Back side_WLAN802.11n(20M)5.5G_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used: $f = 5700$ MHz; $\sigma = 6.038$ S/m; $\epsilon_r = 48.527$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.199 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

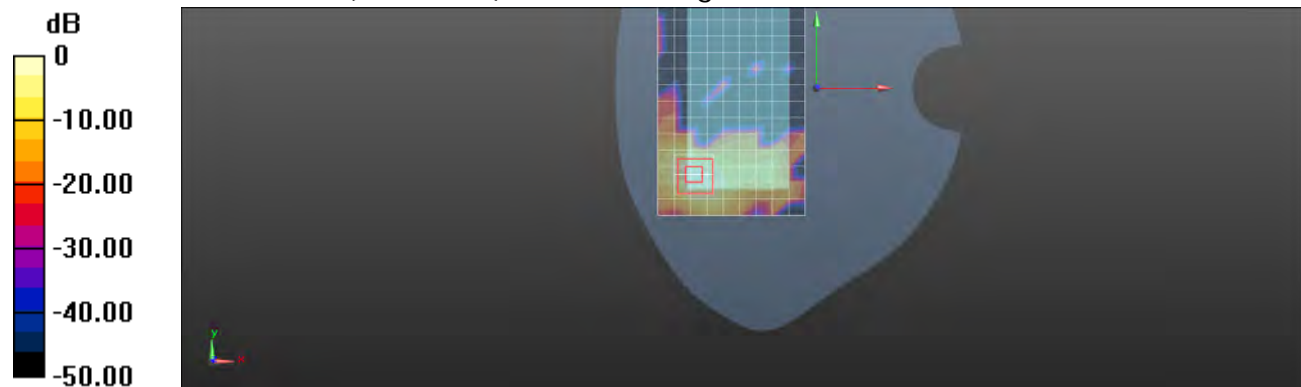
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 7.142 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.032 W/kg

Maximum value of SAR (measured) = 0.255 W/kg


 0 dB = 0.255 W/kg = -5.93 dBW/kg

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Date: 2013/5/18

Hotspot mode_Top side_WLAN802.11n(20M) 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used: $f = 5580$ MHz; $\sigma = 5.86$ S/m; $\epsilon_r = 48.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.345 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.365 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.069 W/kg

Maximum value of SAR (measured) = 0.334 W/kg


 0 dB = 0.334 W/kg = -4.76 dBW/kg

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Date: 2013/5/18

Hotspot mode_Left side_WLAN802.11n(20M) 5.5G_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.86$ S/m; $\epsilon_r = 48.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.198 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

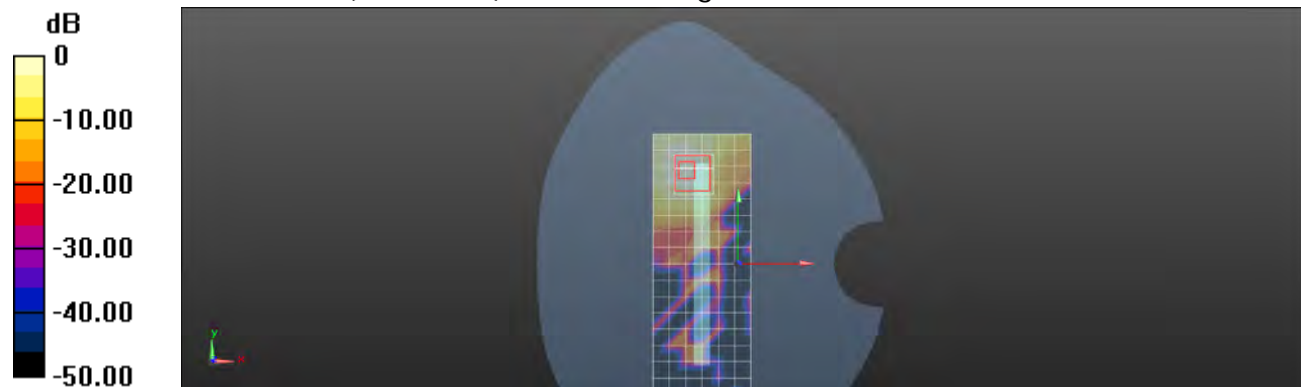
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.598 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.489 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.031 W/kg

Maximum value of SAR (measured) = 0.209 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

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Date: 2013/5/15

RE Cheek_WLAN802.11n(40M) 5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used: $f = 5590$ MHz; $\sigma = 5.101$ S/m; $\epsilon_r = 35.438$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.648 W/kg

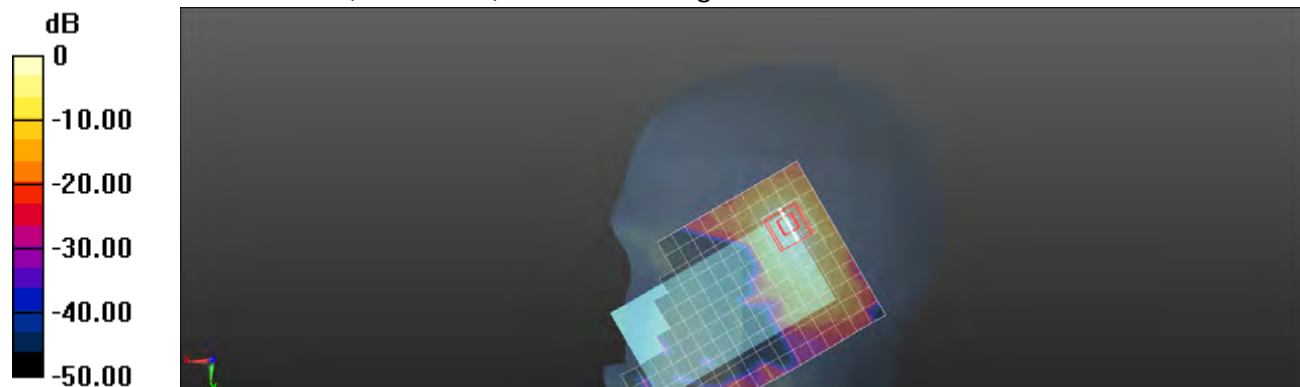
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.827 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.798 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11n(40M) 5.5G_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

Medium parameters used: $f = 5510 \text{ MHz}$; $\sigma = 4.992 \text{ S/m}$; $\epsilon_r = 35.598$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.834 W/kg

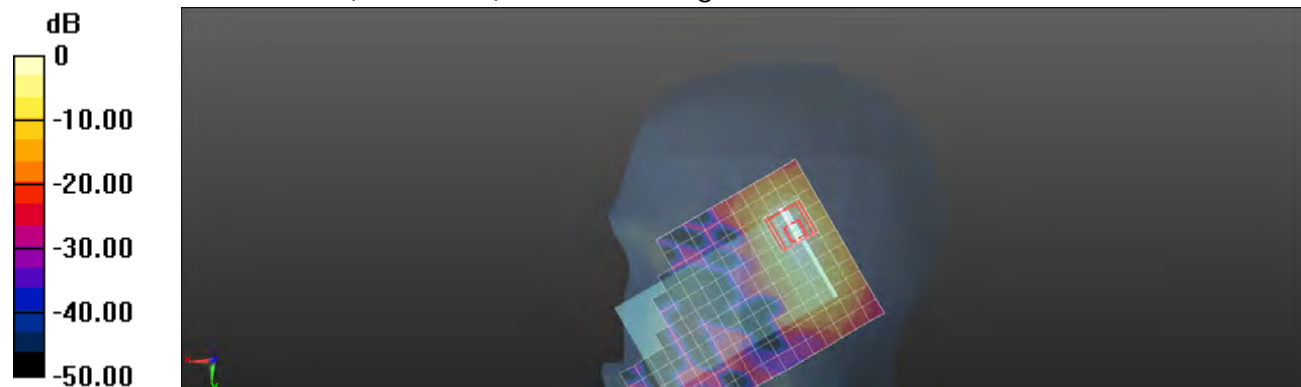
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 11.382 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.925 W/kg



0 dB = 0.925 W/kg = -3.4 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11n(40M) 5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used: $f = 5590$ MHz; $\sigma = 5.101$ S/m; $\epsilon_r = 35.438$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.824 W/kg

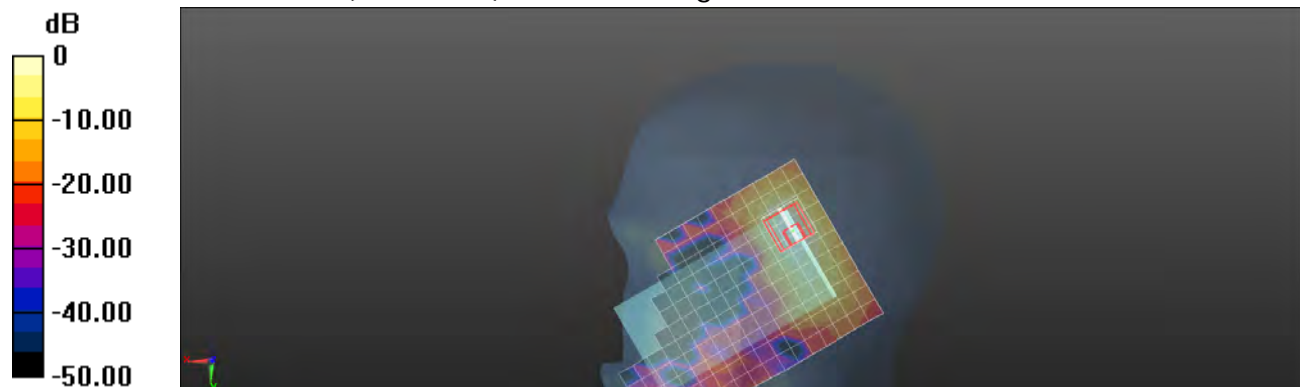
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.568 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.933 W/kg



0 dB = 0.933 W/kg = -30.00 dBW/kg

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Date: 2013/5/15

RE Tilt_WLAN802.11n(40M) 5.5G_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

 Medium parameters used: $f = 5670$ MHz; $\sigma = 5.212$ S/m; $\epsilon_r = 35.263$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.727 W/kg

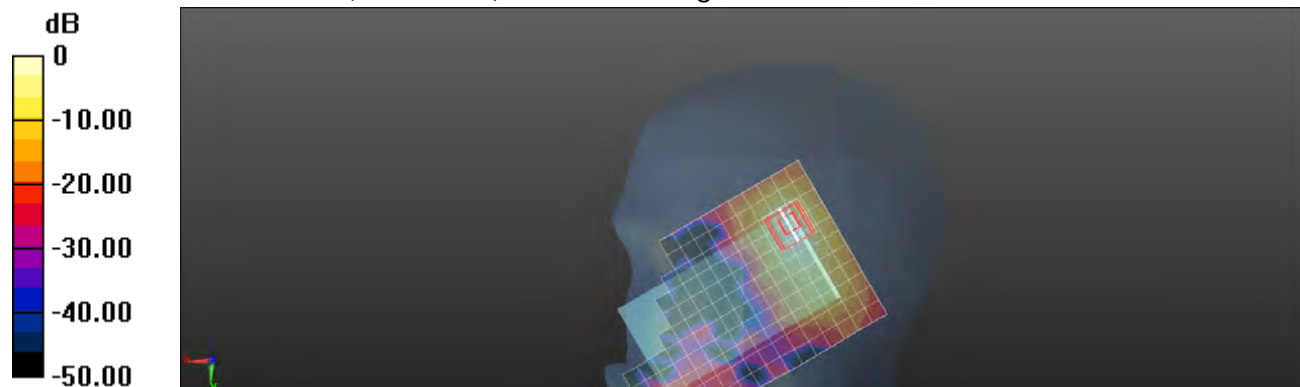
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.107 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.952 W/kg



0 dB = 0.952 W/kg = -0.21 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11n(40M) 5.5G_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

 Medium parameters used: $f = 5510 \text{ MHz}$; $\sigma = 4.992 \text{ S/m}$; $\epsilon_r = 35.598$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.669 W/kg

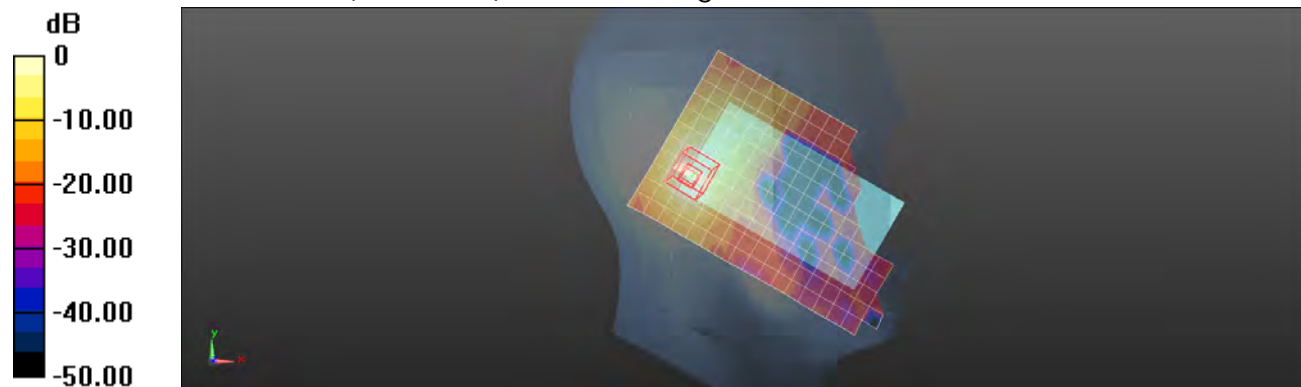
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.569 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.747 W/kg = -1.27 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11n(40M) 5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

 Medium parameters used: $f = 5590$ MHz; $\sigma = 5.101$ S/m; $\epsilon_r = 35.438$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.712 W/kg

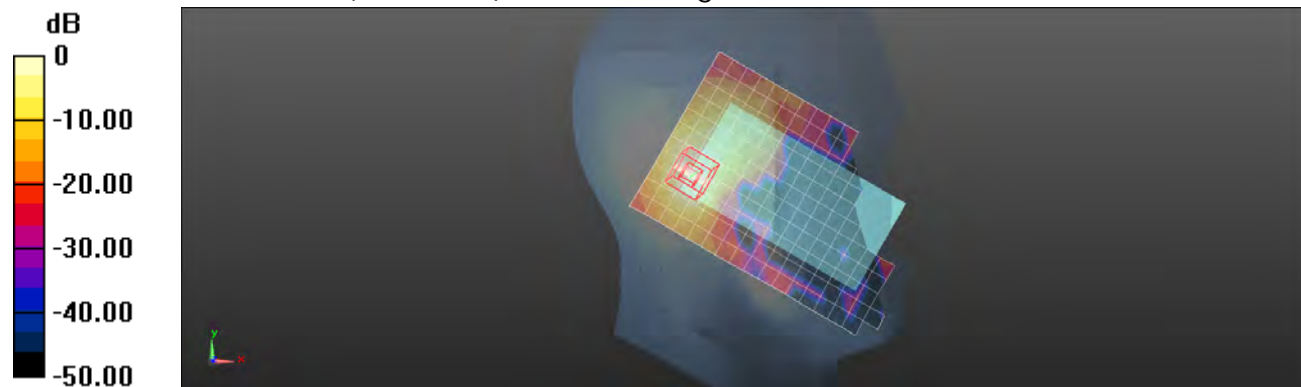
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.218 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.155 W/kg

Maximum value of SAR (measured) = 0.796 W/kg



0 dB = 0.796 W/kg = -0.99 dBW/kg

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Date: 2013/5/15

LE Cheek_WLAN802.11n(40M) 5.5G_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

 Medium parameters used: $f = 5670$ MHz; $\sigma = 5.212$ S/m; $\epsilon_r = 35.263$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.766 W/kg

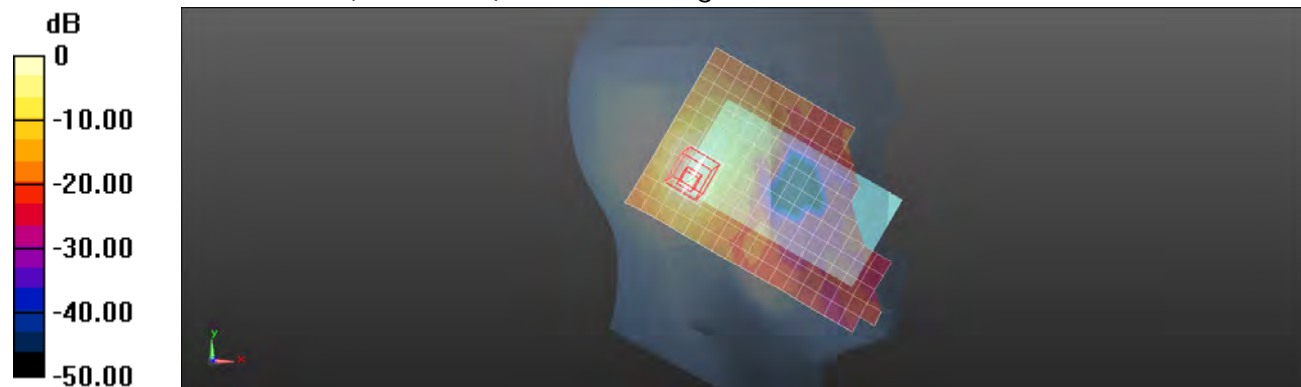
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.902 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.869 W/kg



0 dB = 0.869 W/kg = -0.61 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11n(40M) 5.5G_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

 Medium parameters used: $f = 5510 \text{ MHz}$; $\sigma = 4.992 \text{ S/m}$; $\epsilon_r = 35.598$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.845 W/kg

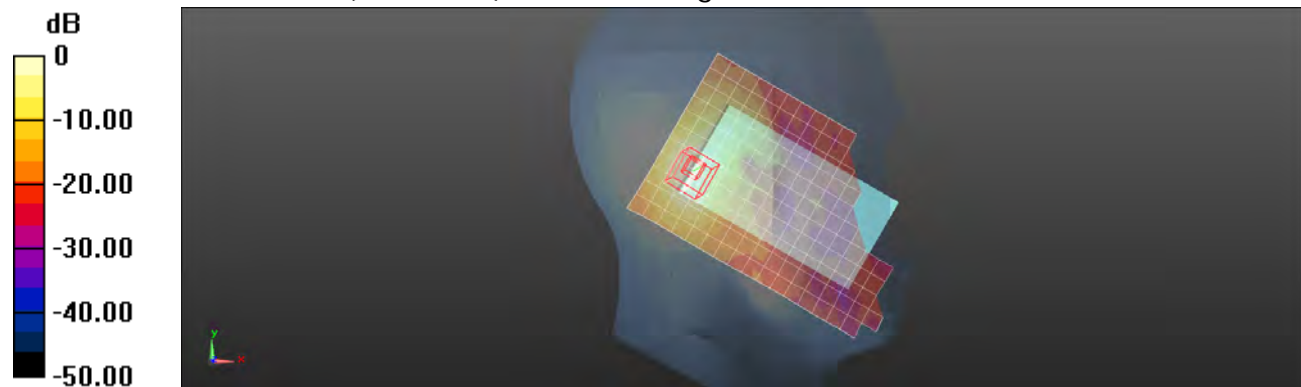
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.988 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.854 W/kg = -0.69 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11n(40M) 5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used: $f = 5590$ MHz; $\sigma = 5.101$ S/m; $\epsilon_r = 35.438$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.835 W/kg

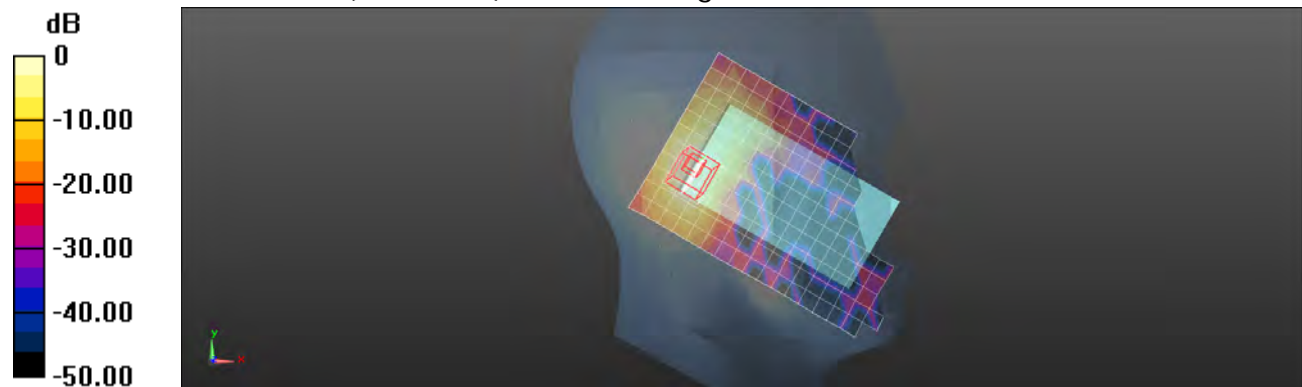
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.627 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.841 W/kg



0 dB = 0.841 W/kg = -0.75 dBW/kg

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Date: 2013/5/15

LE Tilt_WLAN802.11n(40M) 5.5G_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

 Medium parameters used: $f = 5670$ MHz; $\sigma = 5.212$ S/m; $\epsilon_r = 35.263$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.844 W/kg

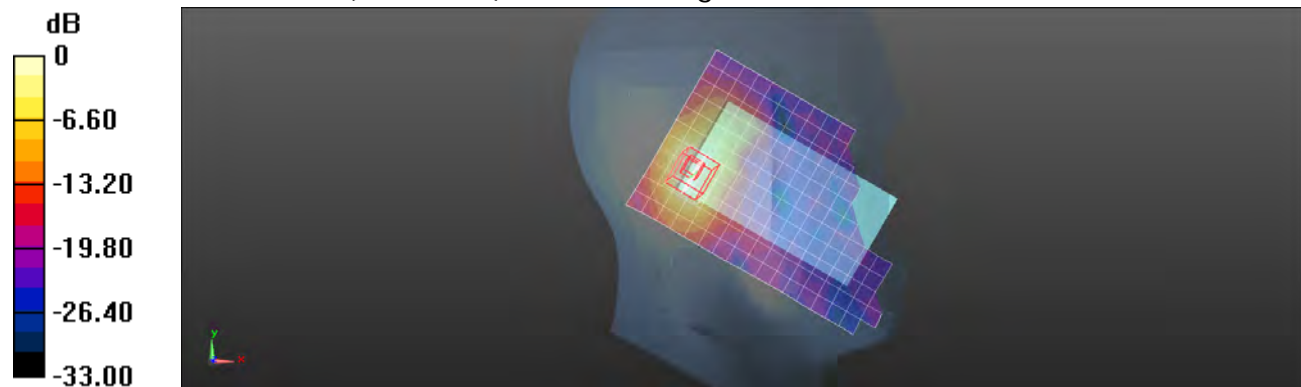
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.445 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.905 W/kg



0 dB = 0.905 W/kg = -0.43 dBW/kg

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Date: 2013/5/18

Hotspot mode_ Front side_WLAN802.11n(40M)5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

 Medium parameters used: $f = 5590$ MHz; $\sigma = 5.874$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

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

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

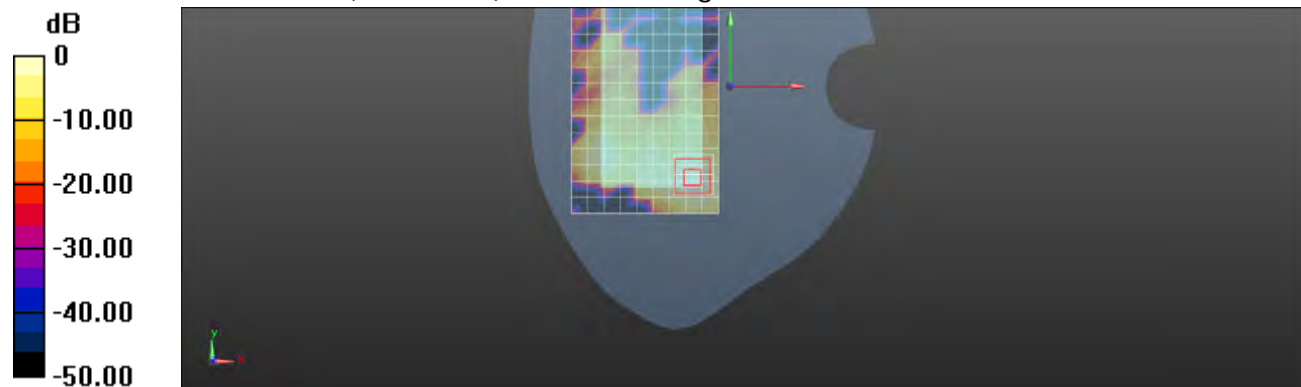
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.125 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.488 W/kg

SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.127 W/kg


 0 dB = 0.127 W/kg = -8.96 dBW/kg

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Member of SGS Group

Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11n(40M)5.5G_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

Medium parameters used: $f = 5510 \text{ MHz}$; $\sigma = 5.746 \text{ S/m}$; $\epsilon_r = 48.881$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.260 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

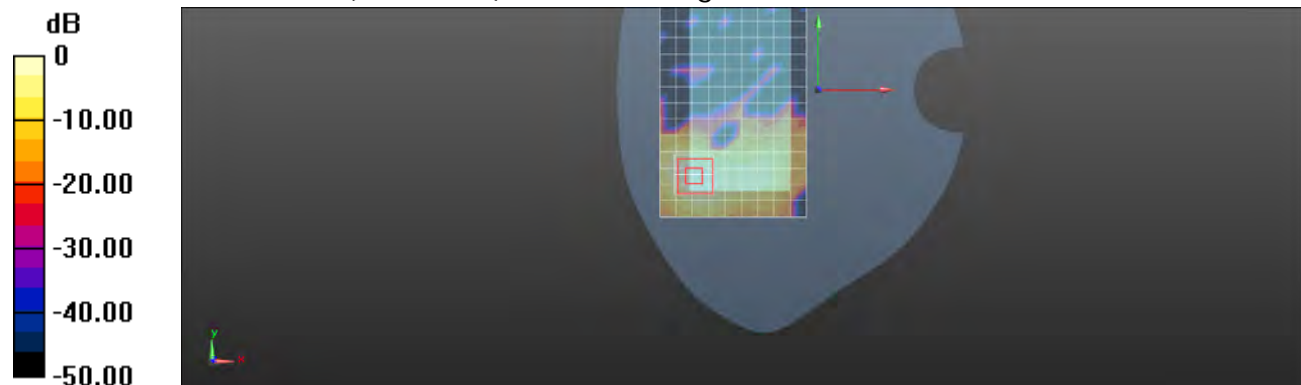
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.540 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.704 W/kg

SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.318 W/kg



0 dB = 0.318 W/kg = -4.98 dBW/kg

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11n(40M)5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used: $f = 5590 \text{ MHz}$; $\sigma = 5.874 \text{ S/m}$; $\epsilon_r = 48.72$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.354 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

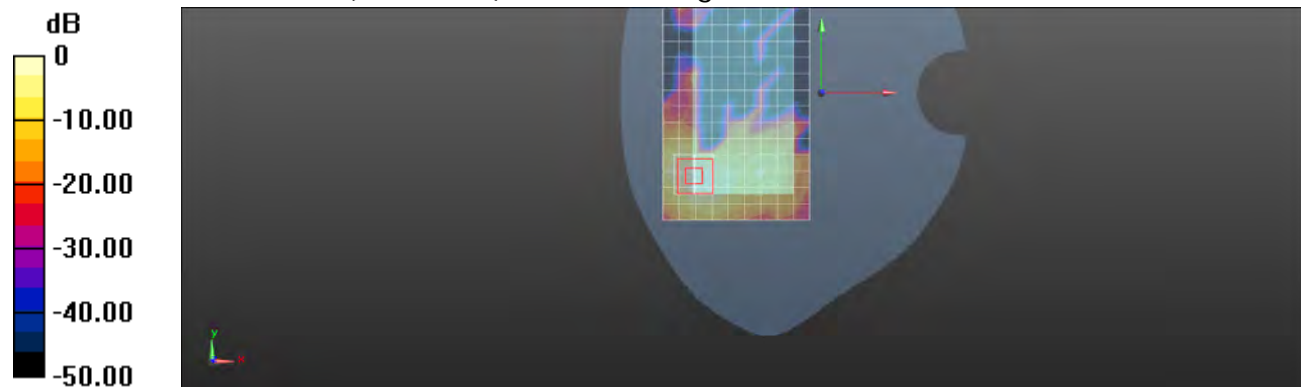
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.521V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.760 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.390 W/kg



0 dB = 0.390 W/kg = -4.09 dBW/kg

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Date: 2013/5/18

Hotspot mode_Back side_WLAN802.11n(40M)5.5G_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used: $f = 5670$ MHz; $\sigma = 5.991$ S/m; $\epsilon_r = 48.541$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.263 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

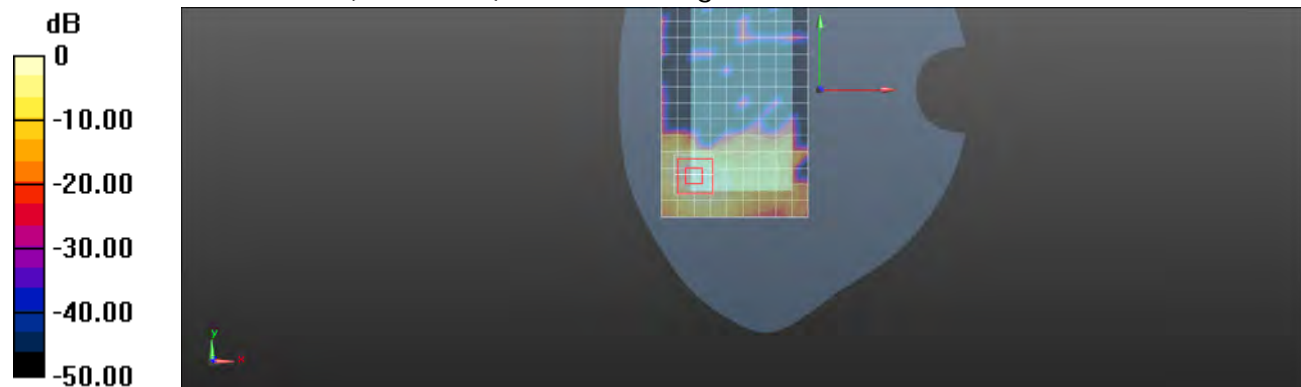
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.532 V/m; Power Drift =0.01 dB

Peak SAR (extrapolated) = 0.719 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.311 W/kg = -5.07 dBW/kg

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Date: 2013/5/18

Hotspot mode_Top side_WLAN802.11n(40M) 5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

 Medium parameters used: $f = 5590 \text{ MHz}$; $\sigma = 5.874 \text{ S/m}$; $\epsilon_r = 48.72$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.281 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

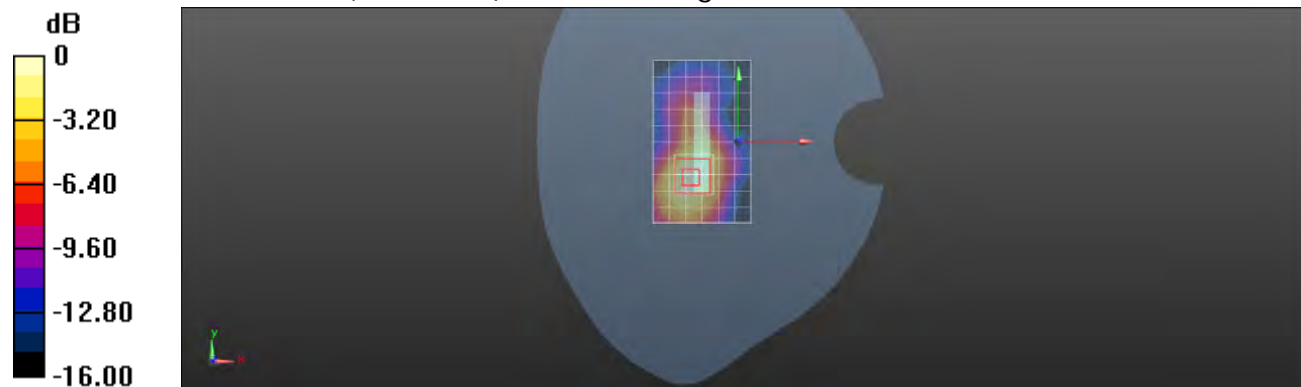
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.107 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.062 W/kg

Maximum value of SAR (measured) = 0.310 W/kg


 $0 \text{ dB} = 0.310 \text{ W/kg} = -5.09 \text{ dBW/kg}$

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Date: 2013/5/18

Hotspot mode_Left side_WLAN802.11n(40M) 5.5G_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

 Medium parameters used: $f = 5590$ MHz; $\sigma = 5.874$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.191 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

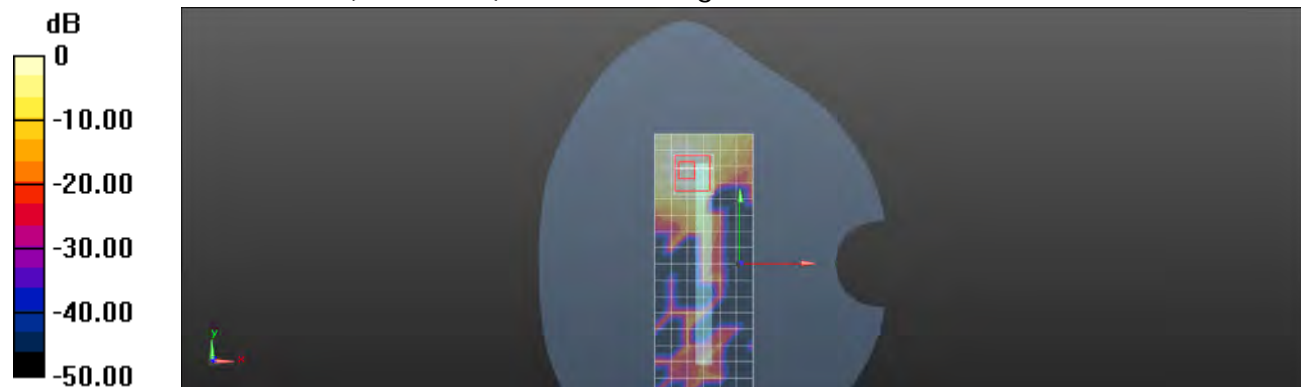
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.597 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.197 W/kg


 0 dB = 0.197 W/kg = -7.06 dBW/kg

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Date: 2013/5/20

RE Cheek_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.317 \text{ S/m}$; $\epsilon_r = 35.122$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.433 W/kg

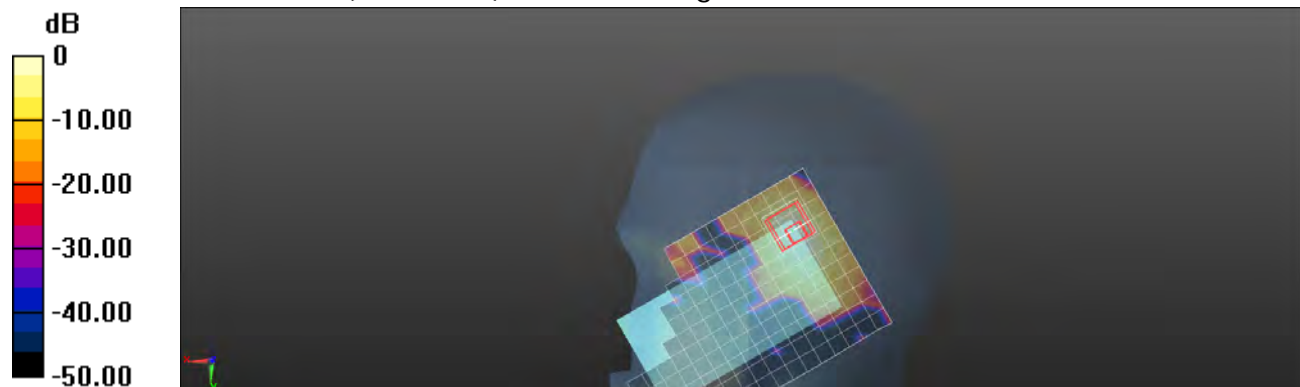
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 6.769 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.945 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.512 W/kg



0 dB = 0.512 W/kg = -2.91 dBW/kg

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Date: 2013/5/20

RE Tilt_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.317 \text{ S/m}$; $\epsilon_r = 35.122$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.492 W/kg

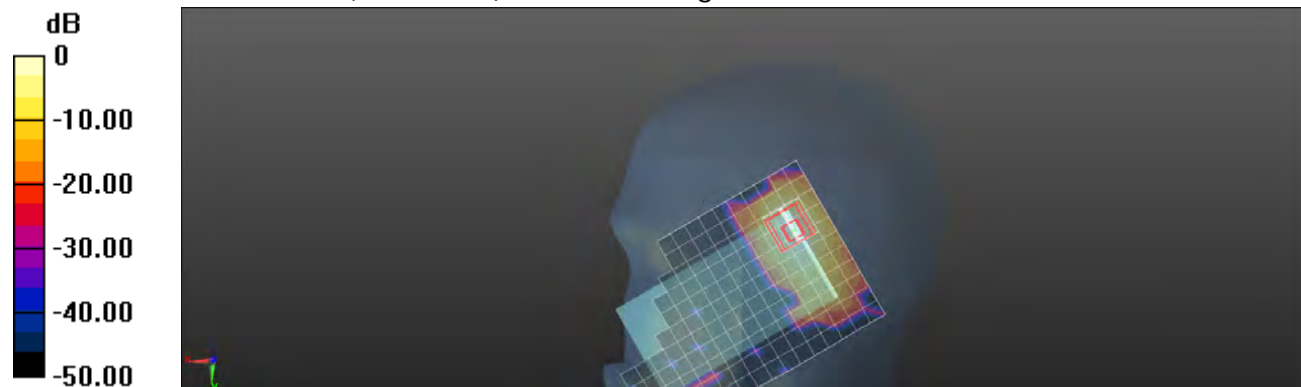
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.756 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.567 W/kg



0 dB = 0.567 W/kg = -2.46 dBW/kg

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Member of SGS Group

Date: 2013/5/20

LE Cheek_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.317$ S/m; $\epsilon_r = 35.122$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.502 W/kg

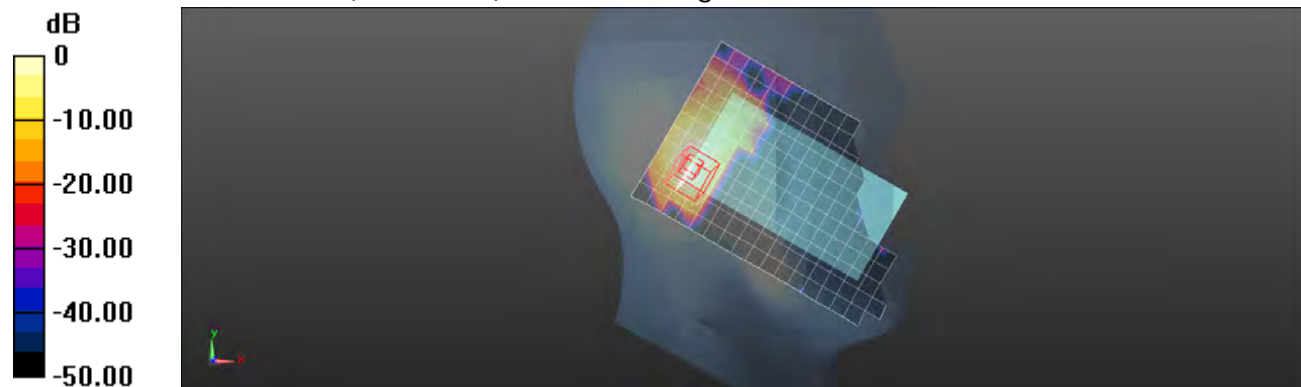
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.293 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.944 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.074 W/kg

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



0 dB = 0.535 W/kg = -2.72 dBW/kg

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Date: 2013/5/20

LE Tilt_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.317$ S/m; $\epsilon_r = 35.122$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.566 W/kg

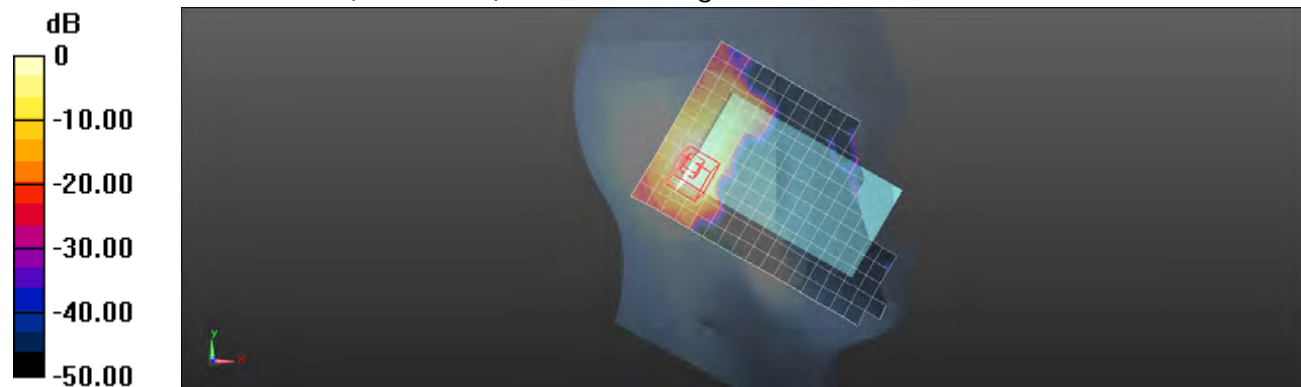
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.582 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.098 W/kg

Maximum value of SAR (measured) = 0.621 W/kg



0 dB = 0.621 W/kg = -2.07 dBW/kg

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Date: 2013/5/20

LE Tilt_WLAN802.11a 5.8G_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.373 \text{ S/m}$; $\epsilon_r = 35.031$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.544 W/kg

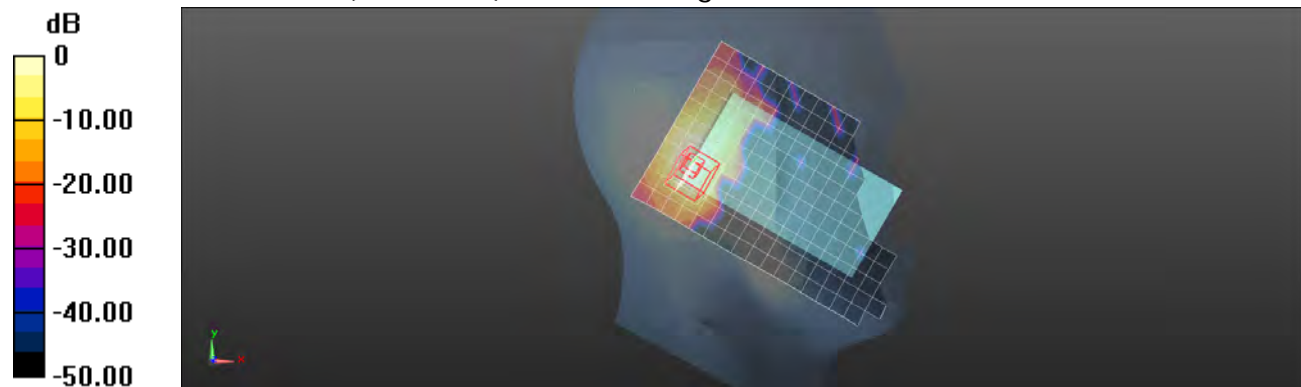
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.132 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.592 W/kg



0 dB = 0.592 W/kg = -2.28 dBW/kg

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Date: 2013/5/20

LE Tilt_WLAN802.11a 5.8G_CH161

Communication System: WLAN 5G (FCC); Frequency: 5805 MHz

Medium parameters used: $f = 5805$ MHz; $\sigma = 5.401$ S/m; $\epsilon_r = 34.992$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.487 W/kg

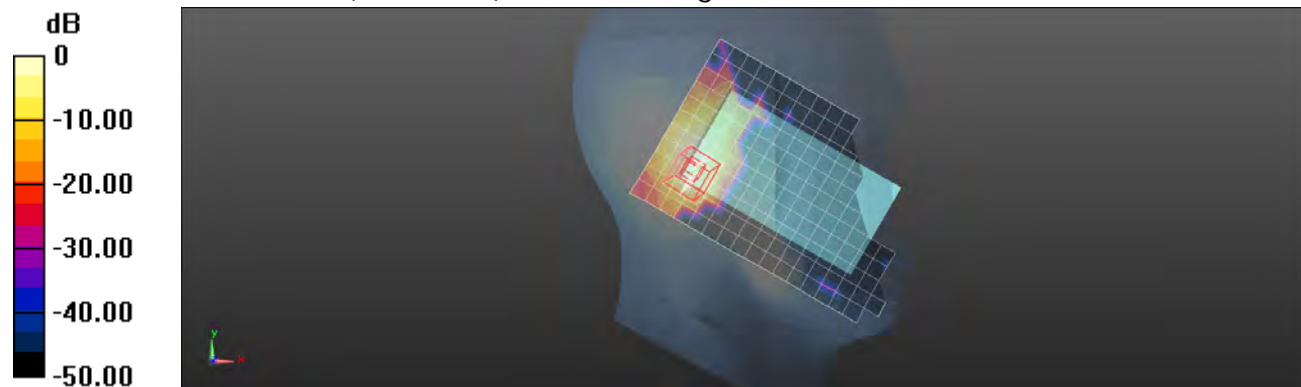
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.584 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.595 W/kg = -2.25 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Front side_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.087$ S/m; $\epsilon_r = 48.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0739 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

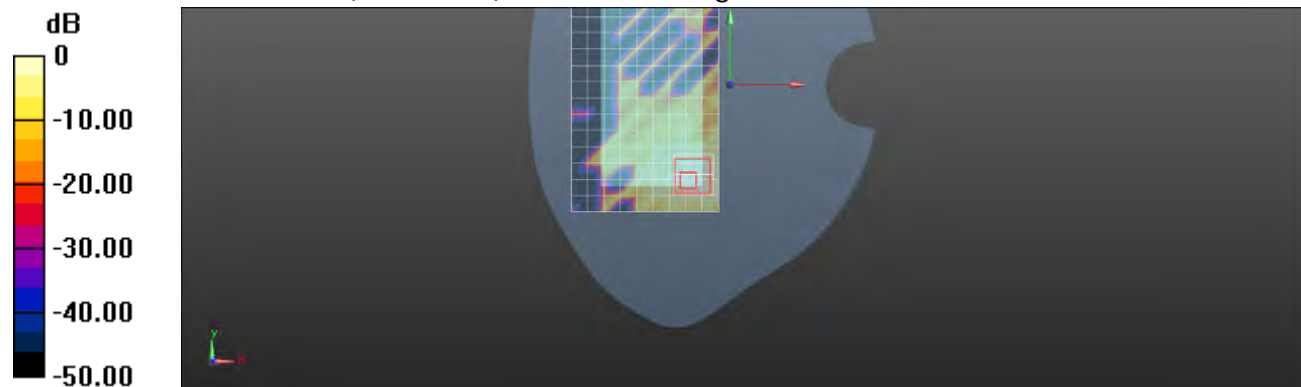
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.889 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.598 W/kg

SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0785 W/kg



0 dB = 0.0785 W/kg = -11.05 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used: $f = 5745$ MHz; $\sigma = 6.087$ S/m; $\epsilon_r = 48.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.213 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.722 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.465 W/kg

SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.239 W/kg


 0 dB = 0.239 W/kg = -6.22 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11a 5.8G_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.167 \text{ S/m}$; $\epsilon_r = 48.331$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.196 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

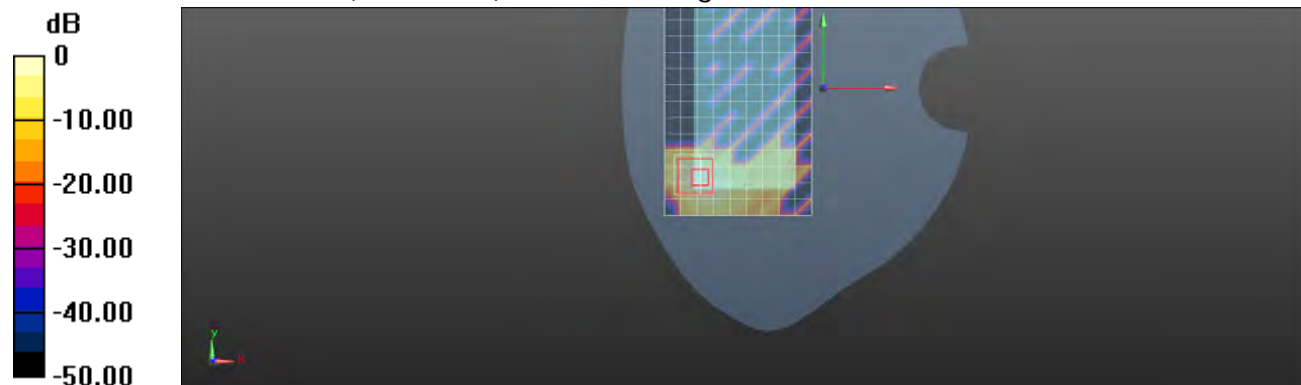
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.751 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.028 W/kg

Maximum value of SAR (measured) = 0.228 W/kg



0 dB = 0.228 W/kg = -6.42 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11a 5.8G_CH161

Communication System: WLAN 5G (FCC); Frequency: 5805 MHz

 Medium parameters used: $f = 5805$ MHz; $\sigma = 6.197$ S/m; $\epsilon_r = 48.312$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.173 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

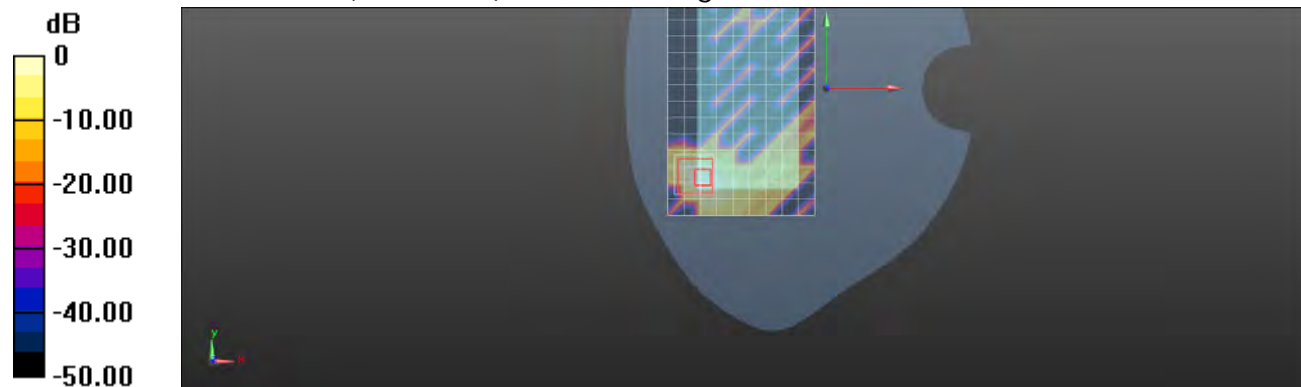
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.766 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.024 W/kg

Maximum value of SAR (measured) = 0.190 W/kg


 0 dB = 0.190 W/kg = -7.21 dBW/kg

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Date: 2013/5/20

Hotspot mode_Top side_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.087$ S/m; $\epsilon_r = 48.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x10x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

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

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

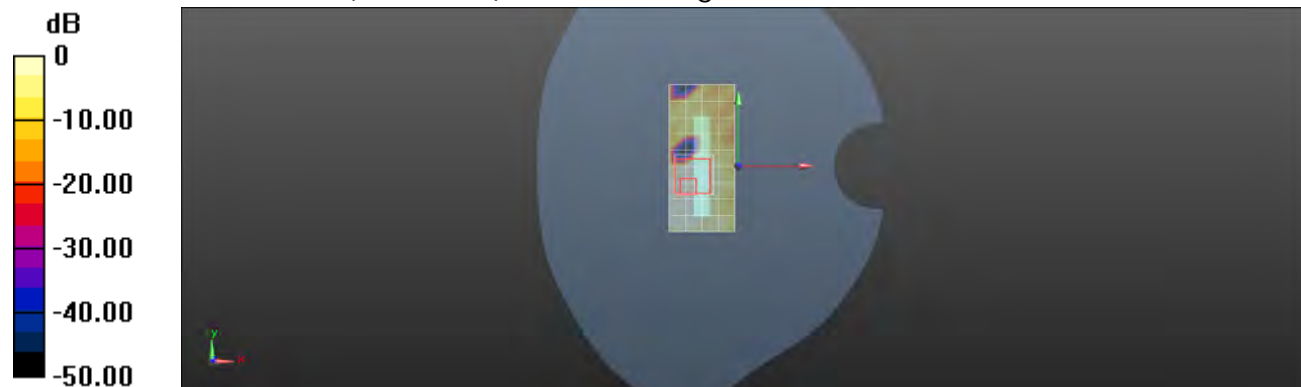
$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.359 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.407 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.126 W/kg



0 dB = 0.126 W/kg = -9.00 dBW/kg

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Date: 2013/5/20

Hotspot mode_Left side_WLAN802.11a 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used: $f = 5745$ MHz; $\sigma = 6.087$ S/m; $\epsilon_r = 48.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.116 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

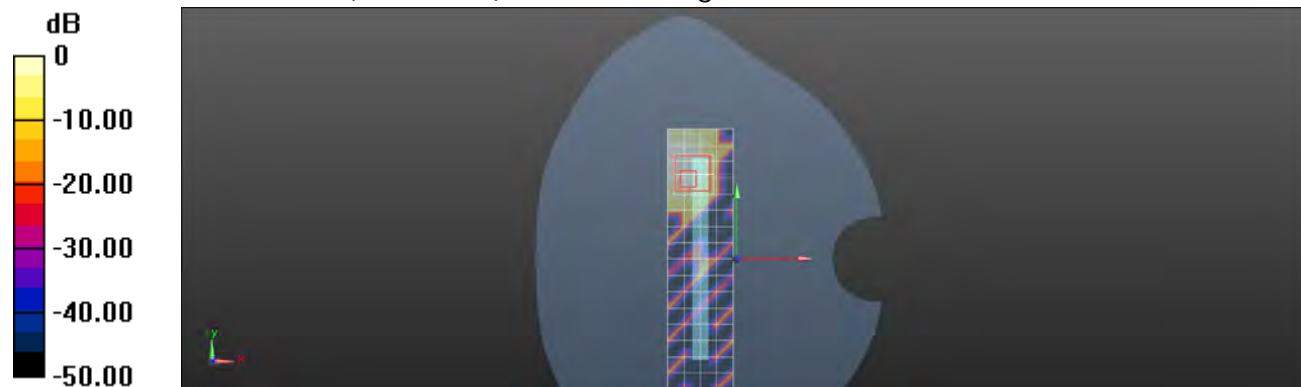
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.825 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.587 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.114 W/kg


 0 dB = 0.114 W/kg = -9.43 dBW/kg

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Member of SGS Group

Date: 2013/5/20

RE Cheek_WLAN802.11n(20M) 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used: $f = 5745$ MHz; $\sigma = 5.317$ S/m; $\epsilon_r = 35.122$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

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

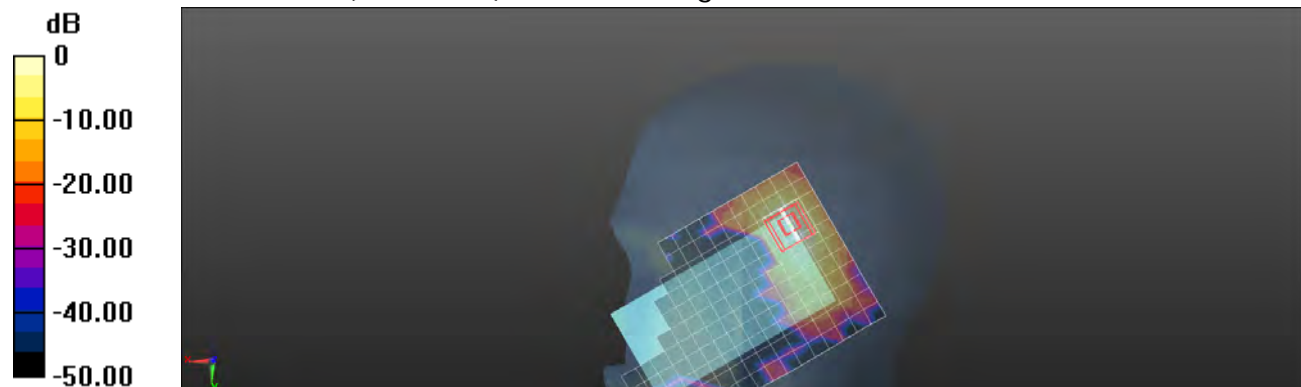
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.064 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.593 W/kg



0 dB = 0.593 W/kg = -2.27 dBW/kg

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Date: 2013/5/20

RE Tilt_WLAN802.11n(20M) 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.317$ S/m; $\epsilon_r = 35.122$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.516 W/kg

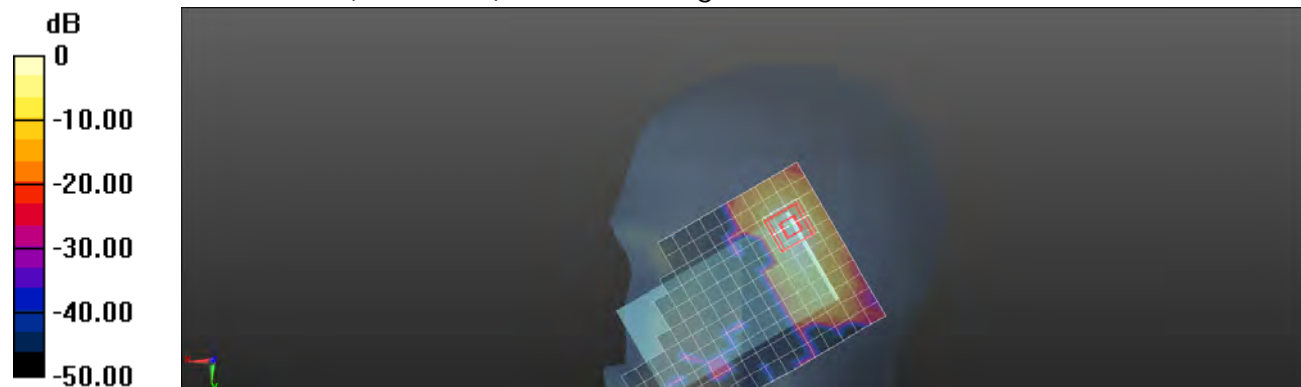
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.917 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.087 W/kg

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



0 dB = 0.579 W/kg = -2.37 dBW/kg

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Date: 2013/5/20

LE Cheek_WLAN802.11n(20M) 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.317 \text{ S/m}$; $\epsilon_r = 35.122$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.523 W/kg

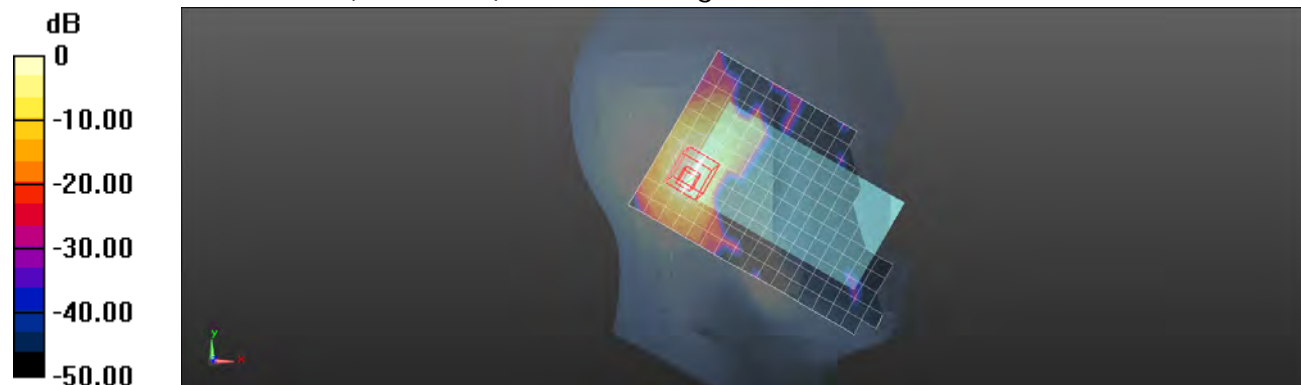
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 6.801 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.553 W/kg



0 dB = 0.553 W/kg = -2.57 dBW/kg

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Date: 2013/5/20

LE Tilt_WLAN802.11n(20M) 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.317 \text{ S/m}$; $\epsilon_r = 35.122$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.555 W/kg

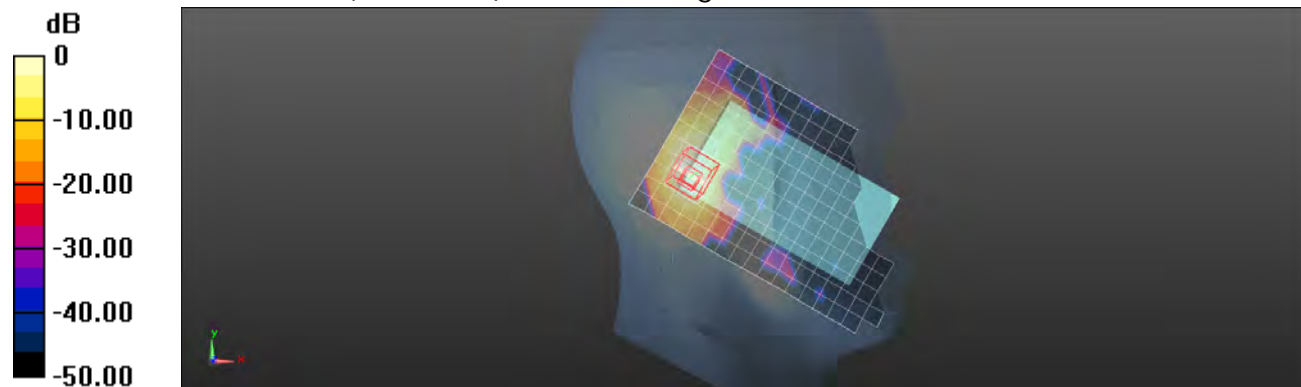
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 6.928 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.324 W/kg; SAR(10 g) = 0.111 W/kg

Maximum value of SAR (measured) = 0.643 W/kg



0 dB = 0.643 W/kg = -1.92 dBW/kg

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Date: 2013/5/20

LE Tilt_WLAN802.11n(20M) 5.8G_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.373 \text{ S/m}$; $\epsilon_r = 35.031$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.594 W/kg

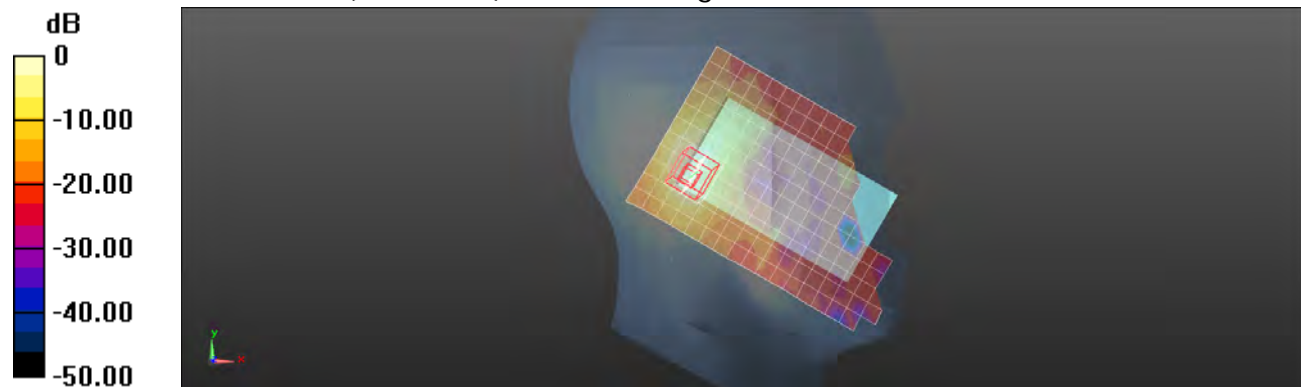
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 8.259 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.686 W/kg



0 dB = 0.686 W/kg = -1.64 dBW/kg

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Date: 2013/5/20

LE Tilt_WLAN802.11n(20M) 5.8G_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 5.431 \text{ S/m}$; $\epsilon_r = 34.957$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.504 W/kg

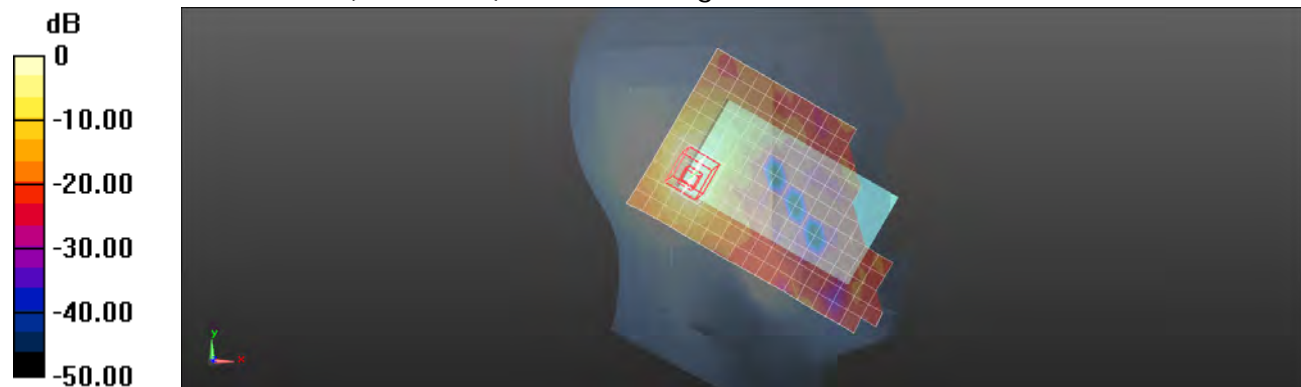
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.410 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.591 W/kg



0 dB = 0.591 W/kg = -2.28 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Front side_WLAN802.11n(20M)5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.087 \text{ S/m}$; $\epsilon_r = 48.419$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0756 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

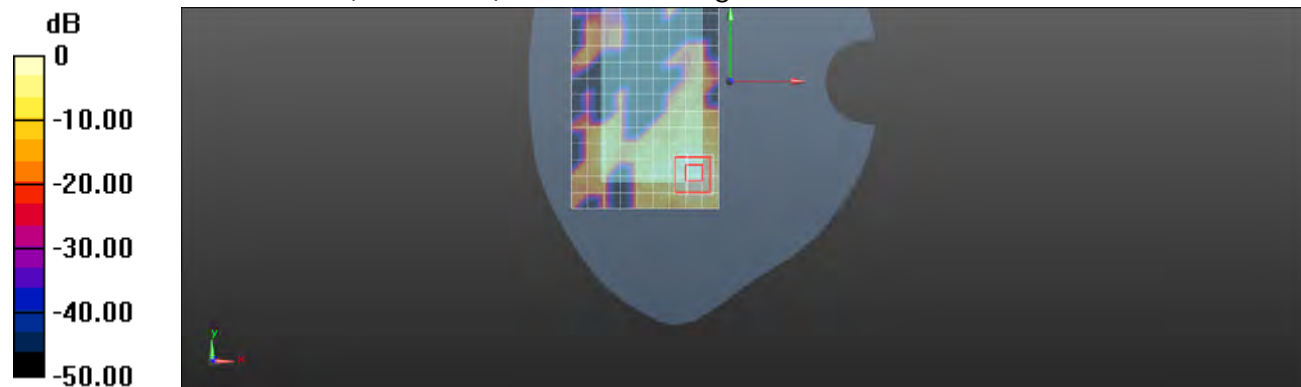
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.772 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.274 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0777 W/kg



0 dB = 0.0777 W/kg = -11.10 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11n(20M)5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.087 \text{ S/m}$; $\epsilon_r = 48.419$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.177 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

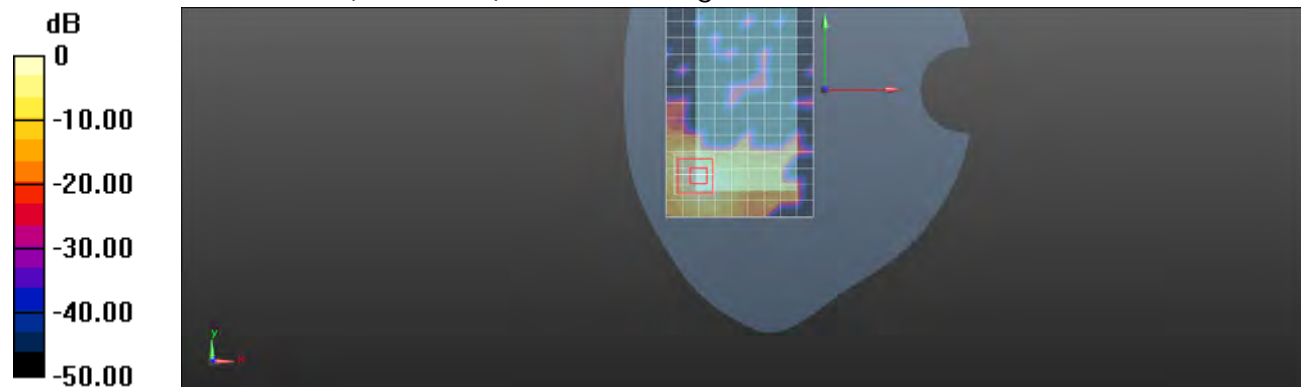
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.221 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.989 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.220 W/kg


 $0 \text{ dB} = 0.220 \text{ W/kg} = -6.58 \text{ dBW/kg}$

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Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11n(20M)5.8G_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.167 \text{ S/m}$; $\epsilon_r = 48.331$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.200 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

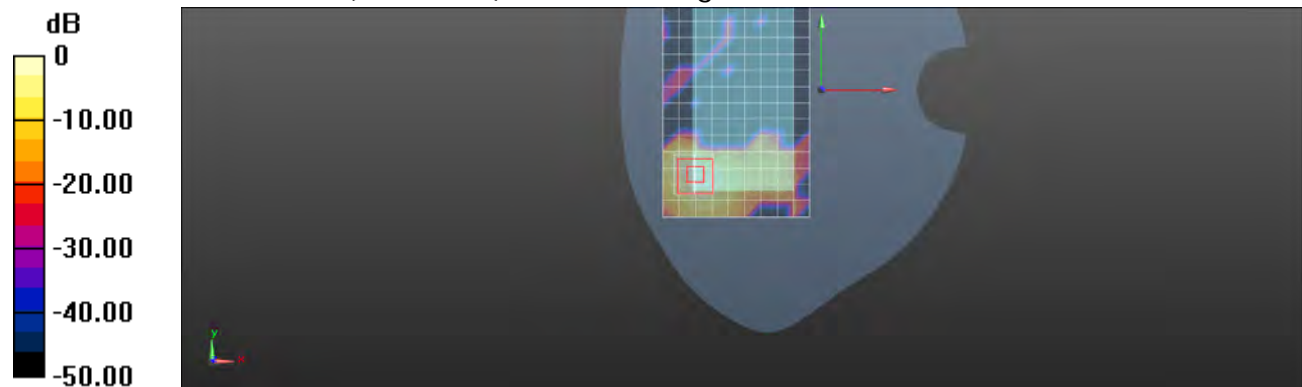
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.237 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.032 W/kg

Maximum value of SAR (measured) = 0.239 W/kg


 $0 \text{ dB} = 0.239 \text{ W/kg} = -6.22 \text{ dBW/kg}$

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Member of SGS Group

Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11n(20M)5.8G_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.221 \text{ S/m}$; $\epsilon_r = 48.294$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.166 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

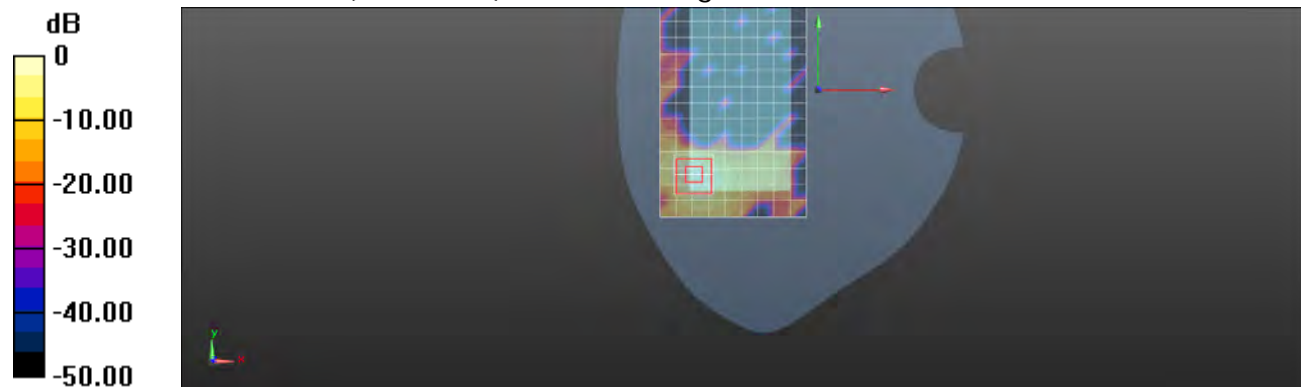
$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.510 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.187 W/kg



0 dB = 0.187 W/kg = -7.28 dBW/kg

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Date: 2013/5/20

Hotspot mode_Top side_WLAN802.11n(20M) 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used: $f = 5745$ MHz; $\sigma = 6.087$ S/m; $\epsilon_r = 48.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.142 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

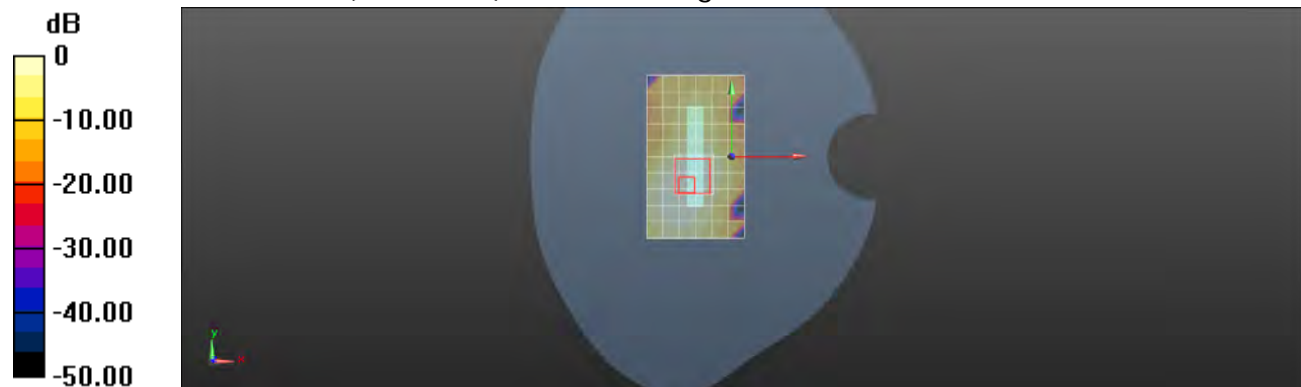
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.667 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.279 W/kg

SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.026 W/kg

Maximum value of SAR (measured) = 0.146 W/kg


 0 dB = 0.146 W/kg = -8.36 dBW/kg

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Member of SGS Group

Date: 2013/5/20

Hotspot mode_Left side_WLAN802.11n(20M) 5.8G_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.087 \text{ S/m}$; $\epsilon_r = 48.419$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0972 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

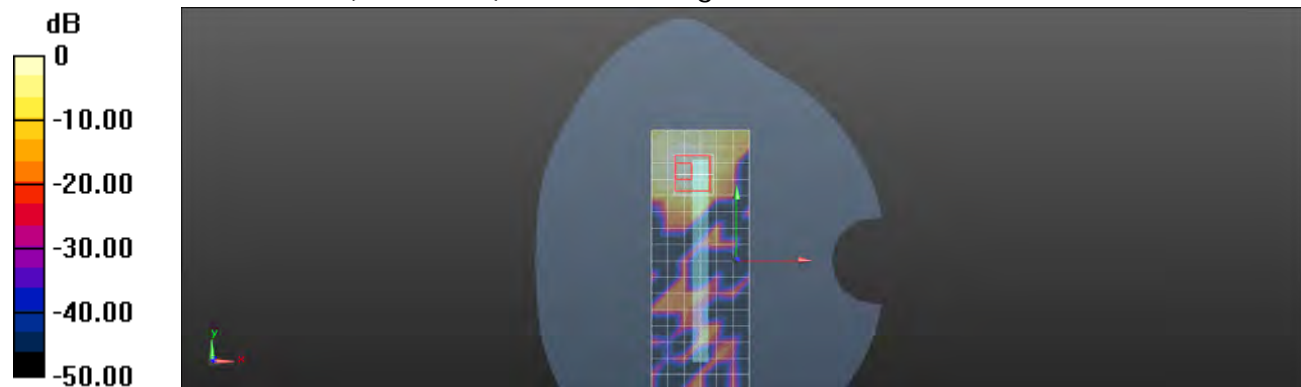
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.152 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.234 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.016 W/kg

Maximum value of SAR (measured) = 0.105 W/kg


 $0 \text{ dB} = 0.105 \text{ W/kg} = -9.79 \text{ dBW/kg}$

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Date: 2013/5/20

RE Cheek_WLAN802.11n(40M) 5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used: $f = 5795$ MHz; $\sigma = 5.387$ S/m; $\epsilon_r = 35.014$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.336 W/kg

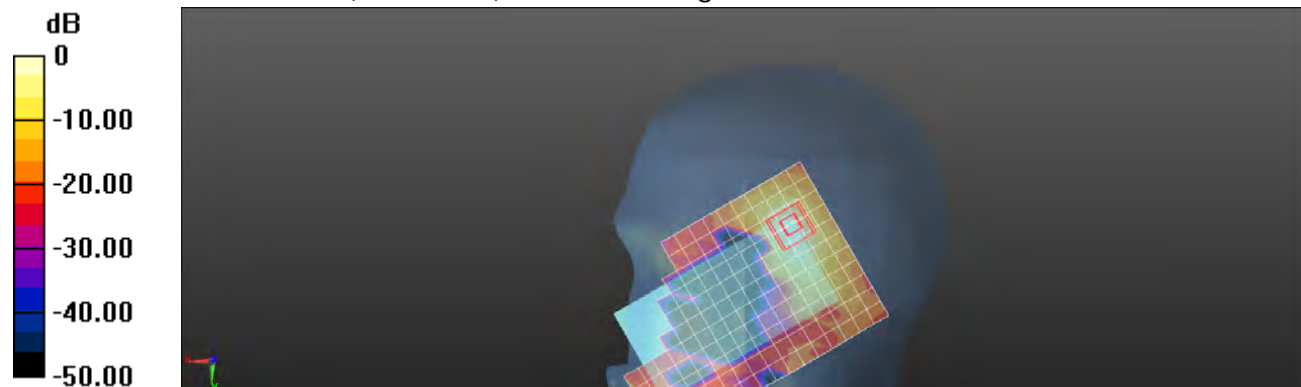
Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.143 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.492 W/kg = -3.08 dBW/kg

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Date: 2013/5/20

RE Tilt_WLAN802.11n(40M) 5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used: $f = 5795$ MHz; $\sigma = 5.387$ S/m; $\epsilon_r = 35.014$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/RE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.442 W/kg

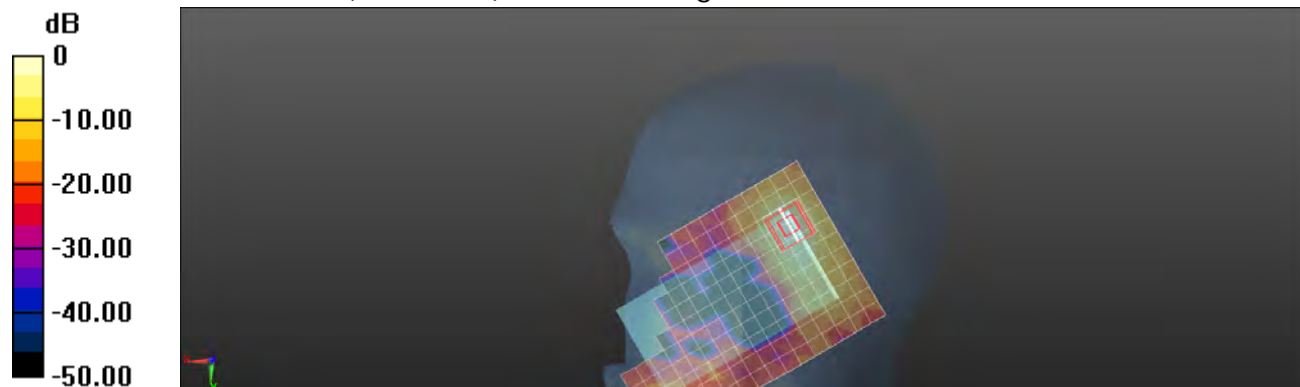
Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.812 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.549 W/kg



0 dB = 0.549 W/kg = -2.60 dBW/kg

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Date: 2013/5/20

LE Cheek_WLAN802.11n(40M) 5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used: $f = 5795$ MHz; $\sigma = 5.387$ S/m; $\epsilon_r = 35.014$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Cheek/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.470 W/kg

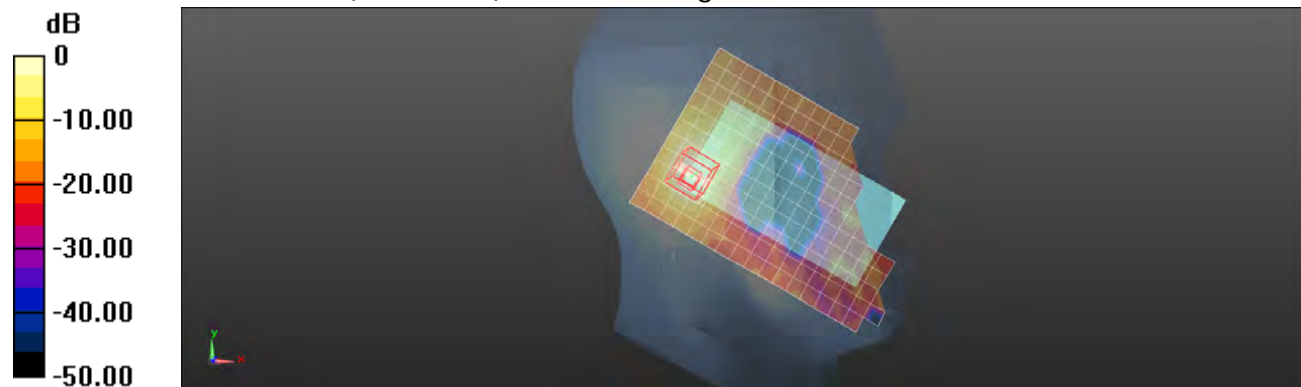
Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.077 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.532 W/kg



0 dB = 0.532 W/kg = -2.74 dBW/kg

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Date: 2013/5/20

LE Tilt_WLAN802.11n(40M) 5.8G_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

 Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 5.331 \text{ S/m}$; $\epsilon_r = 35.09$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.591 W/kg

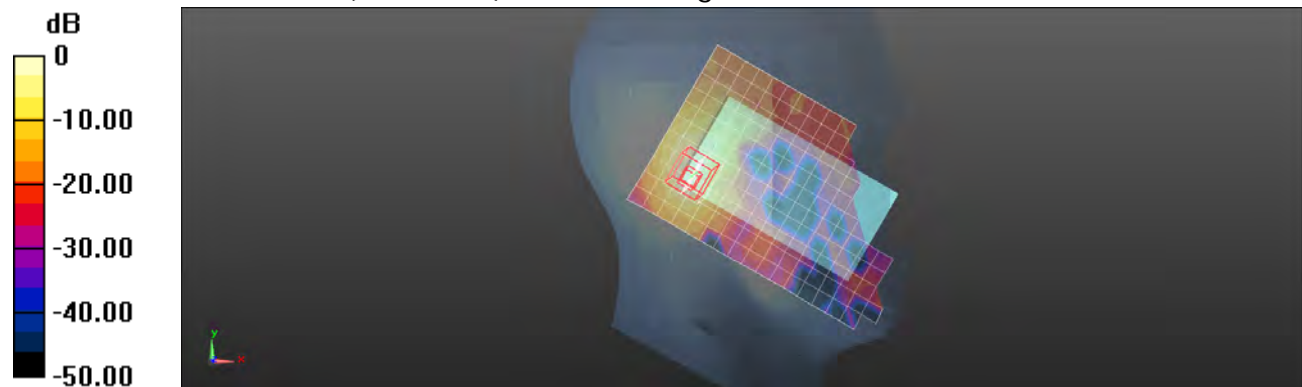
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 6.833 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.706 W/kg



0 dB = 0.706 W/kg = -1.51 dBW/kg

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Member of SGS Group

Date: 2013/5/20

LE Tilt_WLAN802.11n(40M) 5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used: $f = 5795$ MHz; $\sigma = 5.387$ S/m; $\epsilon_r = 35.014$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/LE Tilt/Area Scan (12x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.534 W/kg

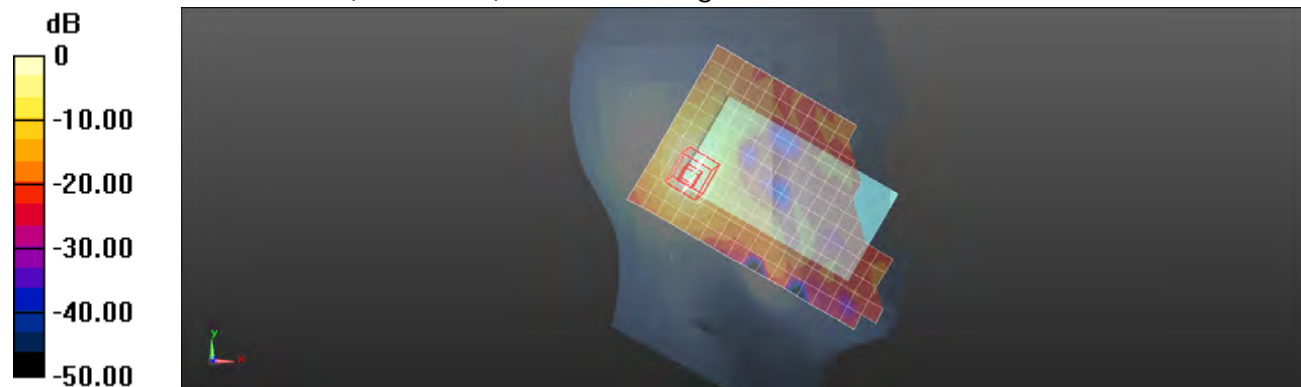
Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.150 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.634 W/kg



0 dB = 0.634 W/kg = -1.98 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Front side_WLAN802.11n(40M)5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used: $f = 5795$ MHz; $\sigma = 6.183$ S/m; $\epsilon_r = 48.322$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0555 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

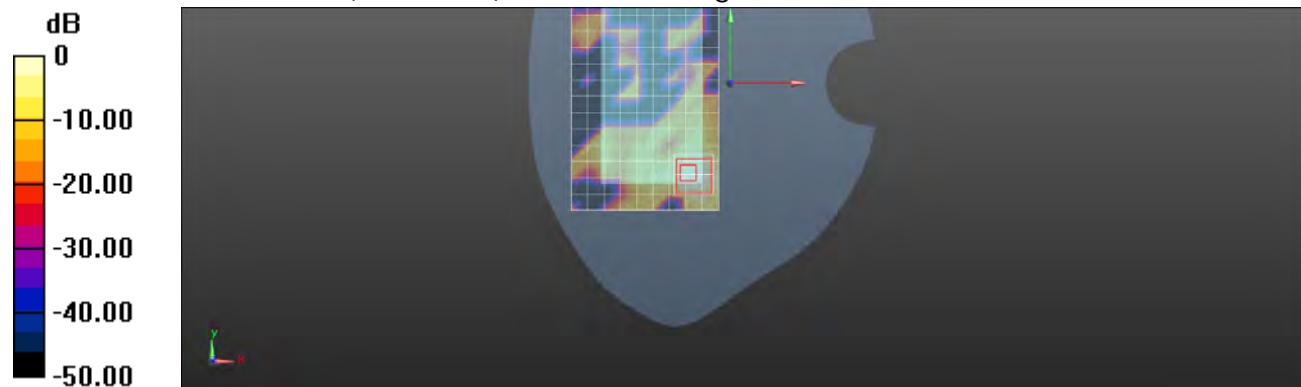
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.18 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.257 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.00949 W/kg

Maximum value of SAR (measured) = 0.0641 W/kg


 0 dB = 0.0641 W/kg = -11.93 dBW/kg

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Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11n(40M)5.8G_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

 Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 6.104 \text{ S/m}$; $\epsilon_r = 48.385$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.161 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

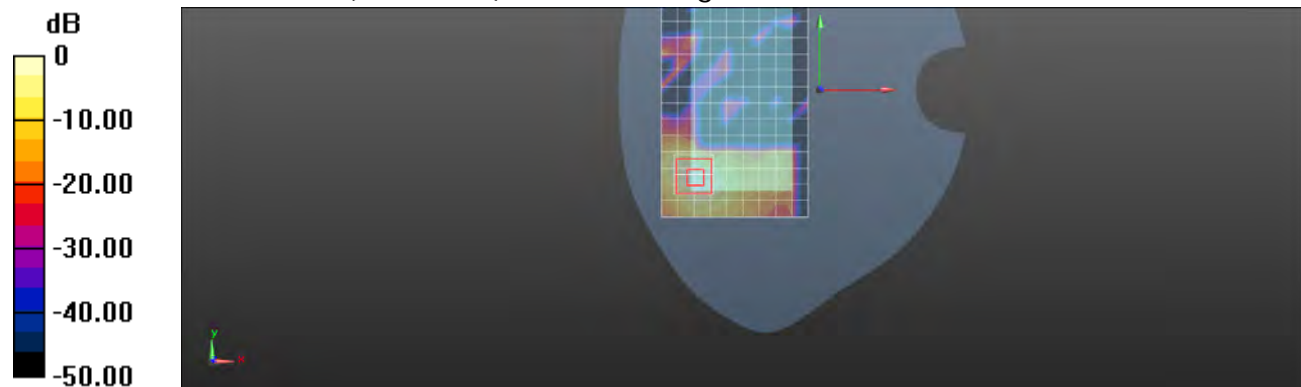
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.55 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.027 W/kg

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


 $0 \text{ dB} = 0.193 \text{ W/kg} = -7.14 \text{ dBW/kg}$

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Date: 2013/5/20

Hotspot mode_ Back side_WLAN802.11n(40M)5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used: $f = 5795$ MHz; $\sigma = 6.183$ S/m; $\epsilon_r = 48.322$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.127 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

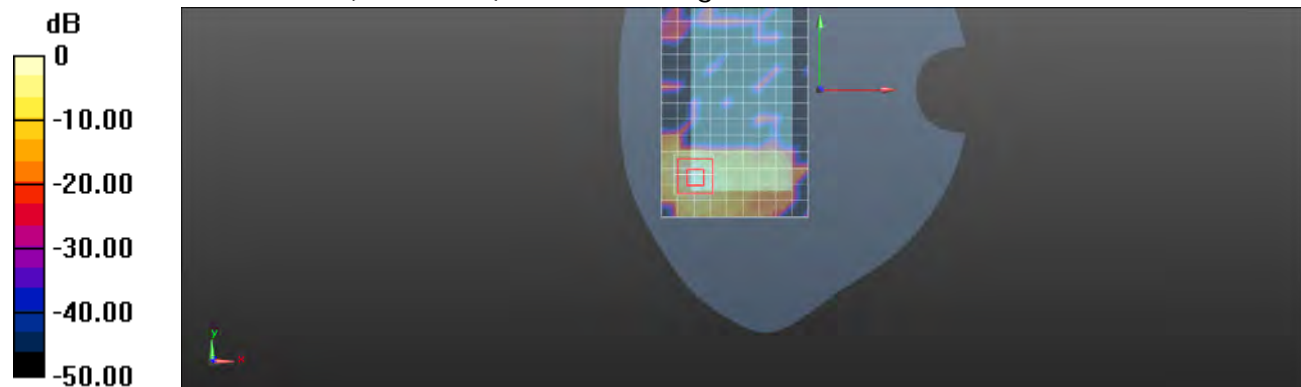
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.42 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.022 W/kg

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


 0 dB = 0.163 W/kg = -7.88 dBW/kg

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Date: 2013/5/20

Hotspot mode_Top side_WLAN802.11n(40M) 5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used: $f = 5795$ MHz; $\sigma = 6.183$ S/m; $\epsilon_r = 48.322$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0909 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

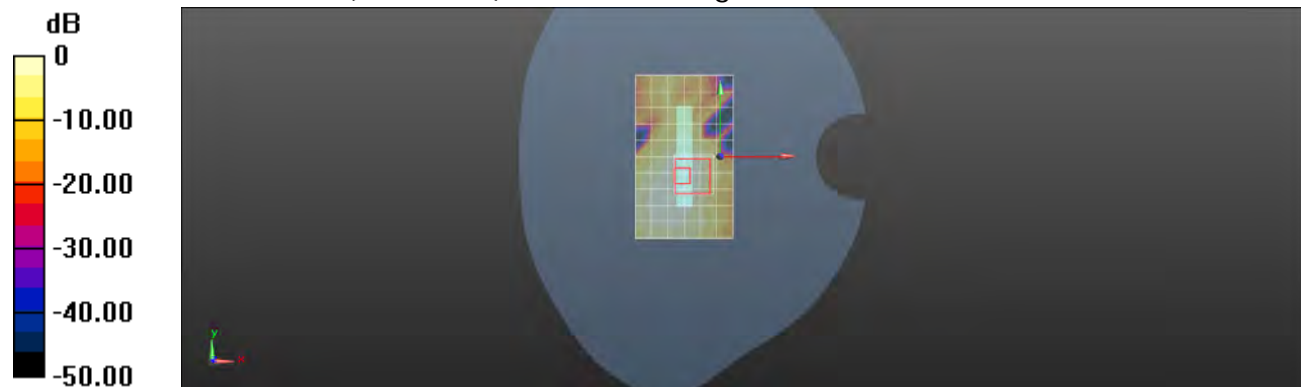
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.056 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0929 W/kg


 0 dB = 0.0929 W/kg = -10.32 dBW/kg

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Date: 2013/5/20

Hotspot mode_Left side_WLAN802.11n(40M) 5.8G_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used: $f = 5795$ MHz; $\sigma = 6.183$ S/m; $\epsilon_r = 48.322$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

 $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0728 W/kg

Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

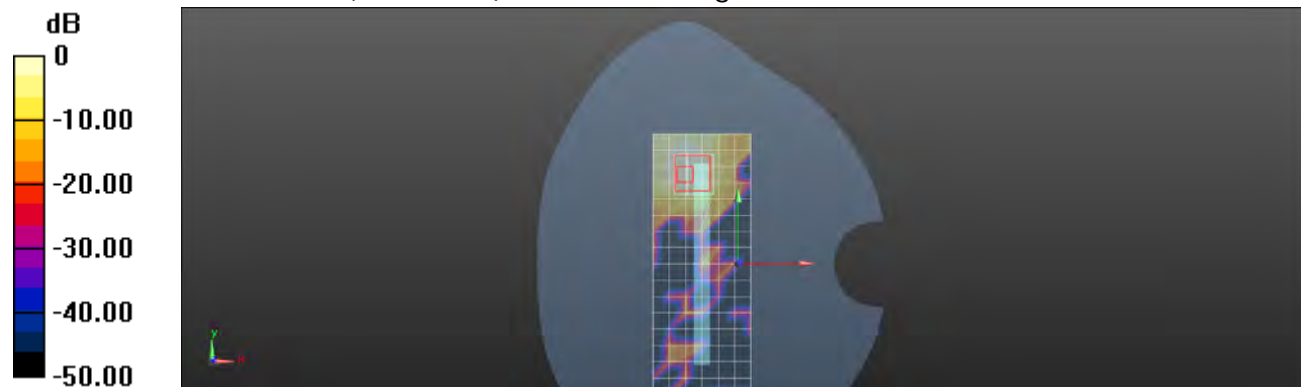
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.11 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.222 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0724 W/kg


 0 dB = 0.0724 W/kg = -11.40 dBW/kg

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6. System Verification

Date: 2013/5/4

Dipole_835 MHz (Head)

Communication System: CW; Frequency: 835 MHz

 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 41.49$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Area Scan:

 Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.92 W/kg

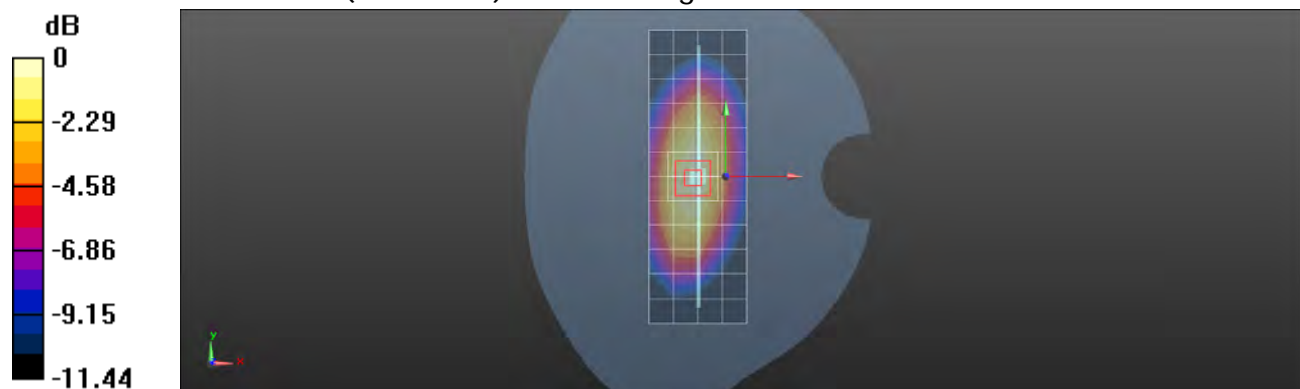
Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Zoom Scan /Cube 0:

Reference Value = 58.404 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (measured) = 3.02 W/kg


 $0 \text{ dB} = 3.02 \text{ W/kg} = 4.80 \text{ dBW/kg}$

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Date: 2013/5/4

Dipole_835 MHz (Body)

Communication System: CW; Frequency: 835 MHz

 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.985 \text{ S/m}$; $\epsilon_r = 56.373$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.97 W/kg

Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Zoom Scan /Cube 0:

Reference Value = 57.261 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.13 W/kg


 $0 \text{ dB} = 3.13 \text{ W/kg} = 4.96 \text{ dBW/kg}$

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Date: 2013/5/6

Dipole_1750 MHz (Head)

Communication System: CW; Frequency: 1750 MHz

 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 41.721$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89; Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.46 W/kg

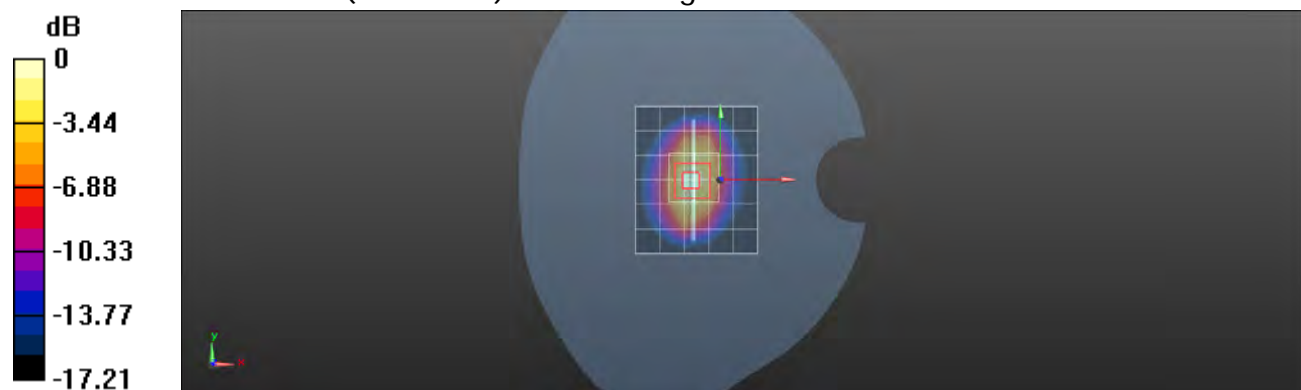
Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 95.810 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 8.47 W/kg; SAR(10 g) = 4.49 W/kg

Maximum value of SAR (measured) = 11.7 W/kg



0 dB = 11.7 W/kg = 10.68 dBW/kg

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Date: 2013/5/6

Dipole_1750 MHz (Body)

Communication System: CW; Frequency: 1750 MHz

 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 52.711$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.8 W/kg

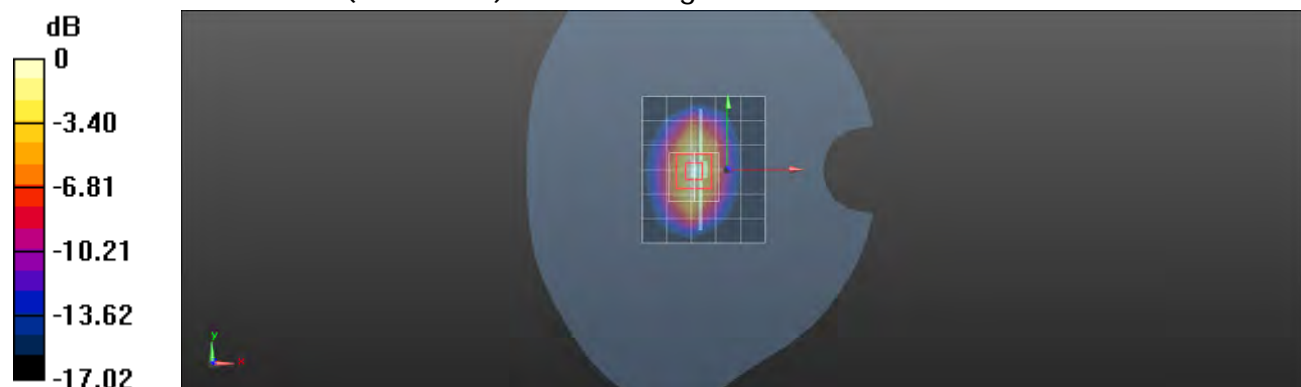
Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 91.936 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.25 W/kg; SAR(10 g) = 4.94 W/kg

Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

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Date: 2013/5/8

Dipole_1900 MHz (Head)

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 41.096$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.2 W/kg

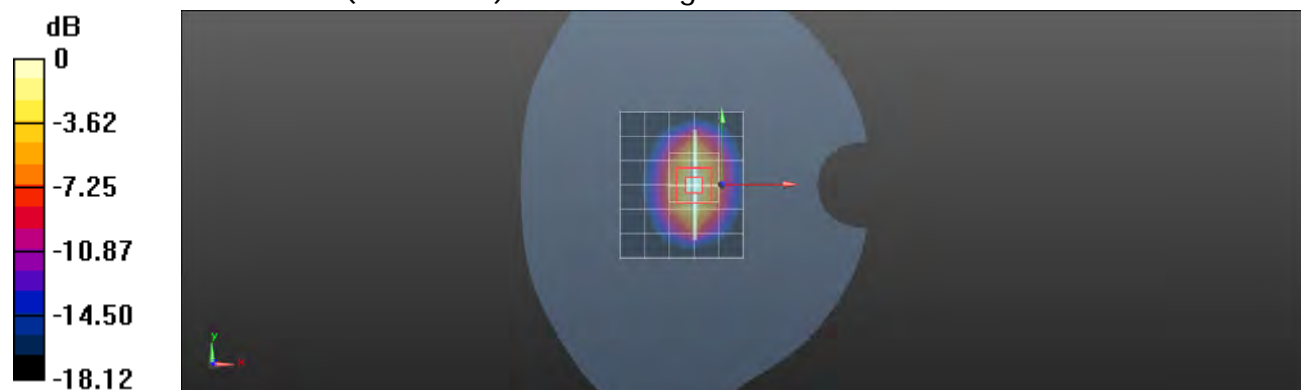
Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 103.4 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.13 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

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Date: 2013/5/8

Dipole_1900 MHz (Body)

Communication System: CW; Frequency: 1900 MHz

 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.531$ S/m; $\epsilon_r = 51.361$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.8 W/kg

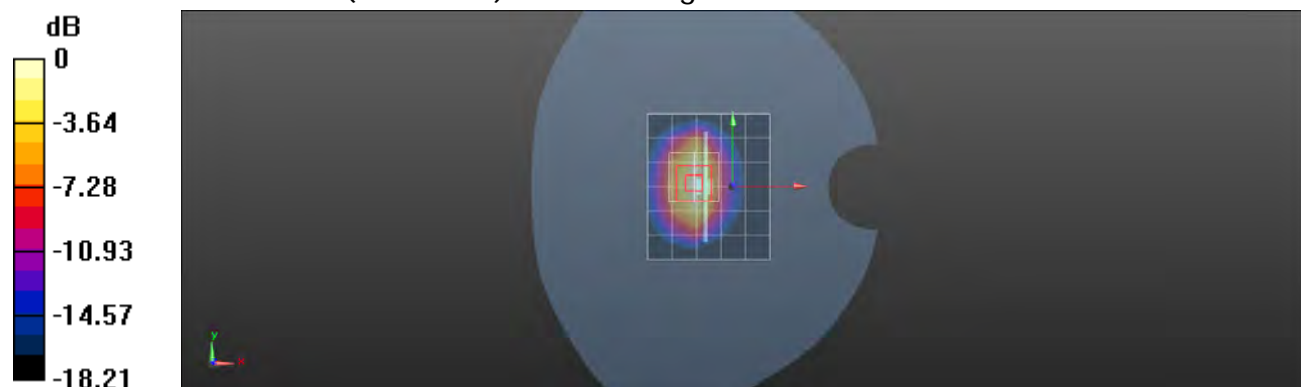
Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 83.403 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.23 W/kg

Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg = 11.61 dBW/kg

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Date: 2013/5/10

Dipole_2450 MHz (Head)

Communication System: CW; Frequency: 2450 MHz

 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.803$ S/m; $\epsilon_r = 38.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 15.0 W/kg

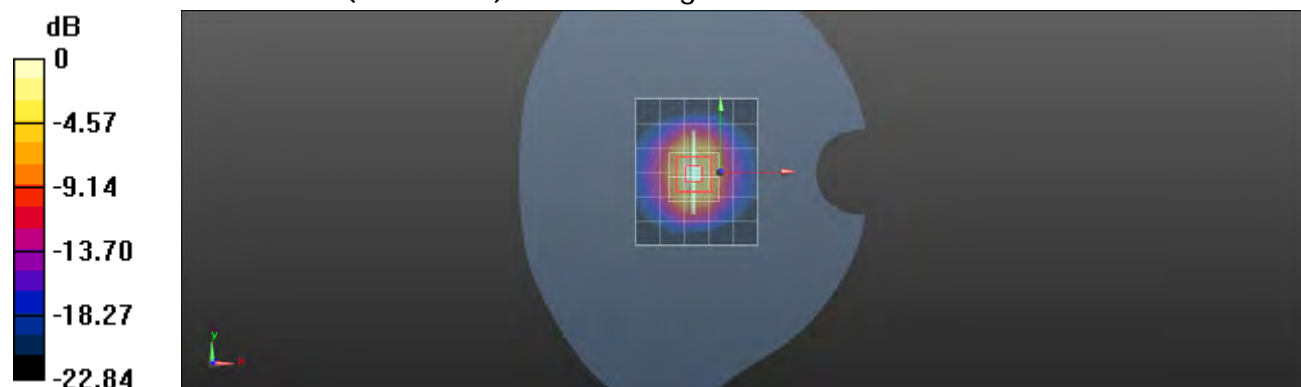
Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 106.4 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.95 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

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Date: 2013/5/10

Dipole_2450 MHz (Body)

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 54.364$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 17.0 W/kg

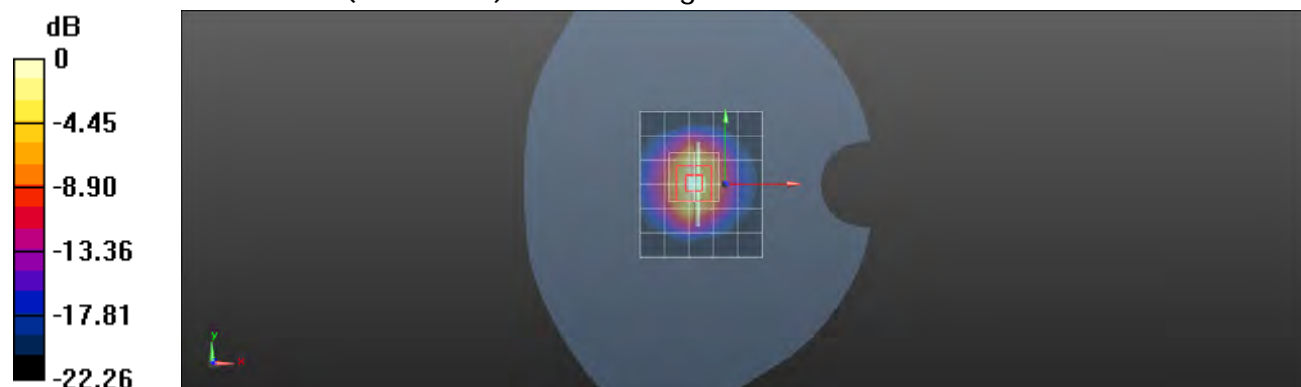
Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 95.448 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 24.8 W/kg

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.67 W/kg

Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg

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Date: 2013/5/12

Dipole_5.2GHz (Head)

Communication System: CW; Frequency: 5200 MHz

 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.577$ S/m; $\epsilon_r = 36.224$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan:

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.1 W/kg

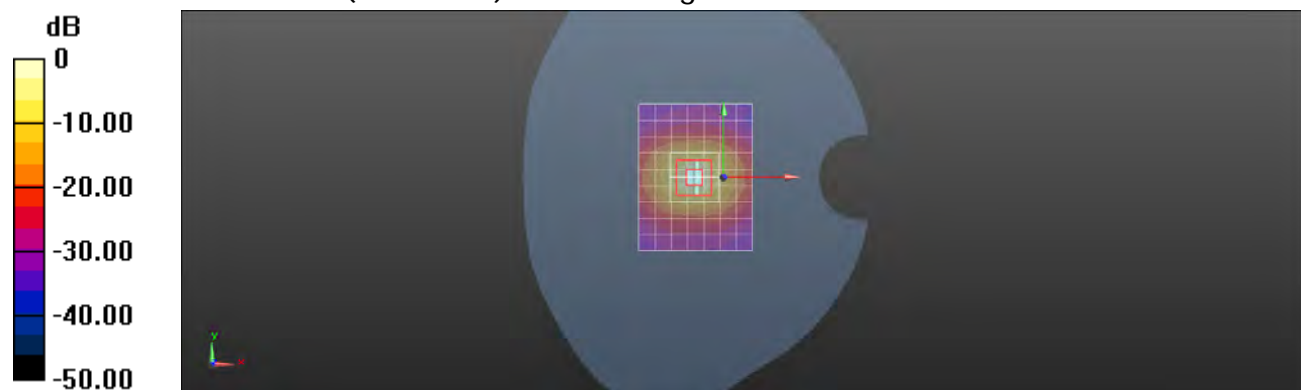
Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 68.042 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 34.0 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.34 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



0 dB = 17.8 W/kg = 12.50 dBW/kg

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Date: 2013/5/17

Dipole_5.2GHz (Body)

Communication System: CW; Frequency: 5200 MHz

 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.303 \text{ S/m}$; $\epsilon_r = 49.549$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan:

 Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 12.3 W/kg

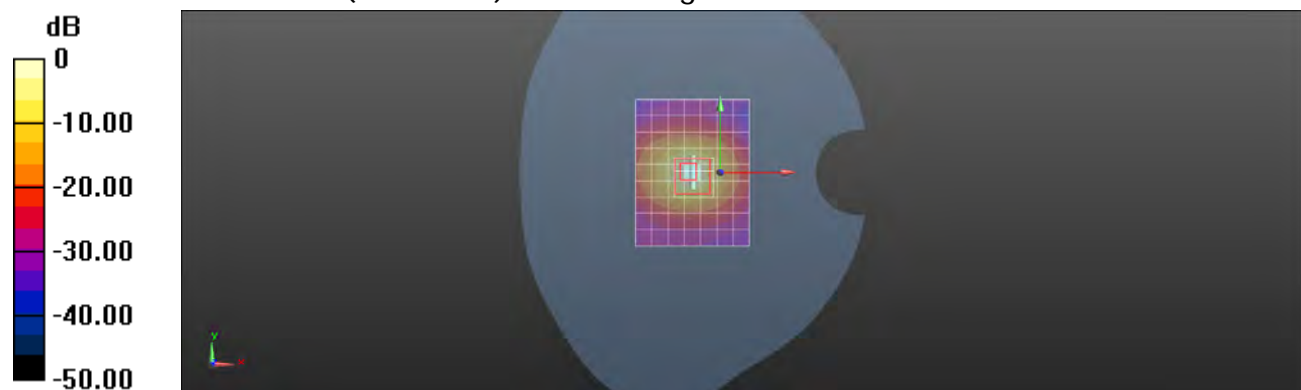
Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 61.810 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 34.5 W/kg

SAR(1 g) = 7.31 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

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Date: 2013/5/15

Dipole_5.5GHz (Head)

Communication System: CW; Frequency: 5500 MHz

 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.612$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Head Tissue/Pin=100mW, d=10mm /Area Scan:

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 14.8 W/kg

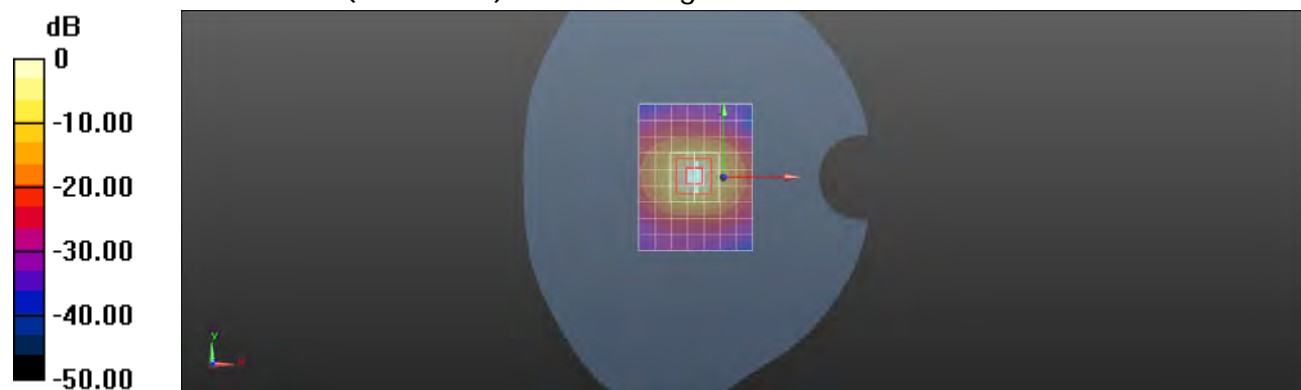
Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan/Cube 0:

Reference Value = 72.050 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 42.2 W/kg

SAR(1 g) = 8.65 W/kg; SAR(10 g) = 2.48 W/kg

Maximum value of SAR (measured) = 20.5 W/kg



0 dB = 20.5 W/kg = 13.12 dBW/kg

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Date: 2013/5/18

Dipole_5.5GHz (Body)

Communication System: CW; Frequency: 5500 MHz

 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.734$ S/m; $\epsilon_r = 48.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan:

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.7 W/kg

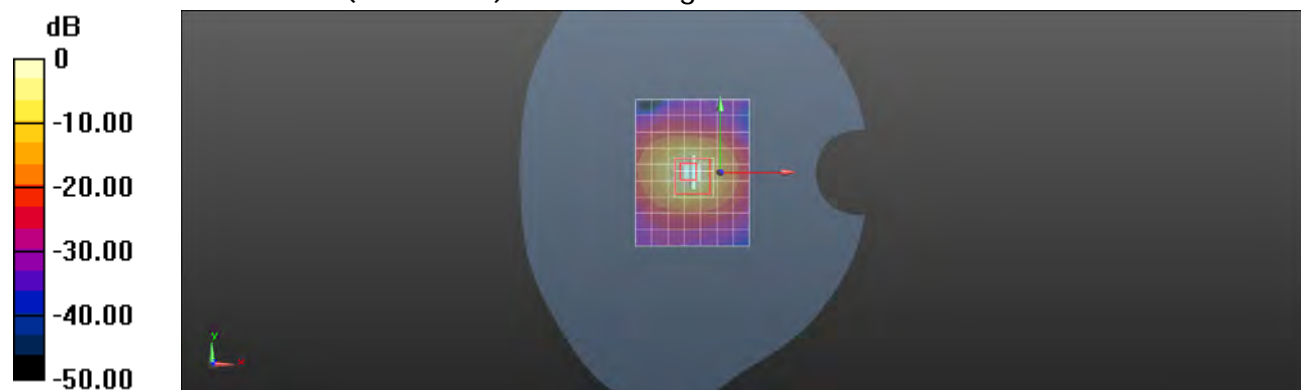
Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 63.946 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 37.2 W/kg

SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

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Date: 2013/5/20

Dipole_5.8GHz (Head)

Communication System: CW; Frequency: 5800 MHz

 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.394 \text{ S/m}$; $\epsilon_r = 34.999$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Head Tissue/Pin=100mW, d=10mm /Area Scan:

 Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 13.3 W/kg

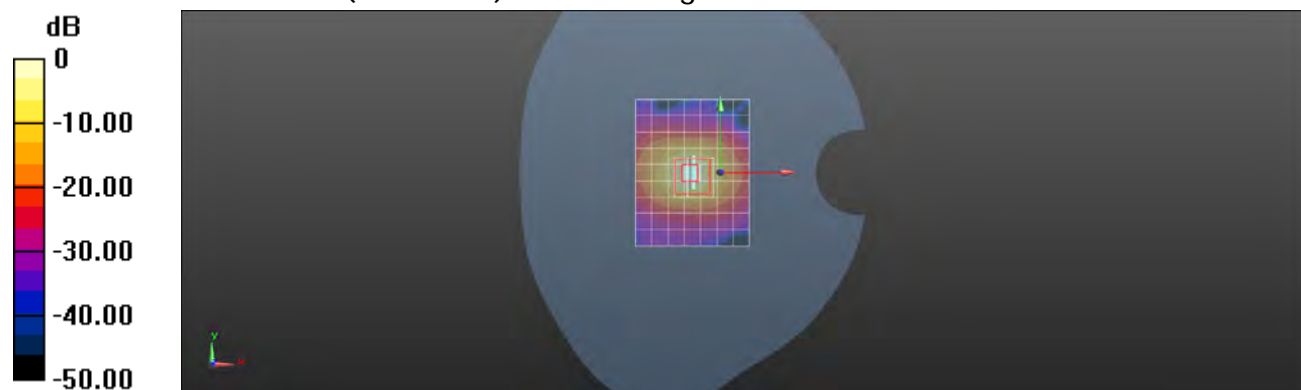
Dipole Calibration for Head Tissue/Pin=100mW, d=10mm /Zoom Scan /Cube 0:

Reference Value = 63.070 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 42.2 W/kg

SAR(1 g) = 7.84 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

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Member of SGS Group

Date: 2013/5/20

Dipole_5.8GHz (Body)

Communication System: CW; Frequency: 5800 MHz

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.19$ S/m; $\epsilon_r = 48.322$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

(8x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.6 W/kg

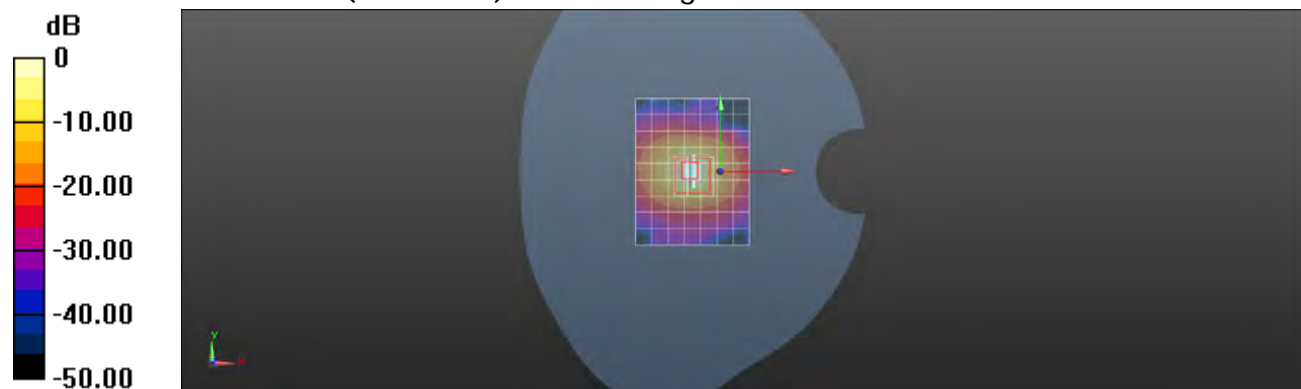
Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 57.528 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 34.4 W/kg

SAR(1 g) = 7.36 W/kg; SAR(10 g) = 2.01 W/kg

Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.30 dBW/kg

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**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zürich, Switzerland



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Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
 - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - **Input resistance:** Typical value for information; DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X | Y | Z |
|---------------------|--------------------------|--------------------------|--------------------------|
| High Range | 403.371 \pm 0.1% (k=2) | 403.127 \pm 0.1% (k=2) | 403.194 \pm 0.1% (k=2) |
| Low Range | 3.96695 \pm 0.7% (k=2) | 3.96890 \pm 0.7% (k=2) | 3.99405 \pm 0.7% (k=2) |

Connector Angle

| | |
|---|-------------------------------------|
| Connector Angle to be used in DASY system | 122.5 $^{\circ}$ \pm 1 $^{\circ}$ |
|---|-------------------------------------|

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Appendix

1. DC Voltage Linearity

| High Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 199994.11 | -3.29 | -0.00 |
| Channel X + Input | 20001.83 | 0.90 | 0.00 |
| Channel X - Input | -19999.76 | 0.45 | -0.00 |
| Channel Y + Input | 199997.52 | 0.39 | 0.00 |
| Channel Y + Input | 19998.61 | -2.15 | -0.01 |
| Channel Y - Input | -20001.36 | -1.00 | 0.00 |
| Channel Z + Input | 199993.95 | -3.37 | -0.00 |
| Channel Z + Input | 19998.98 | -1.78 | -0.01 |
| Channel Z - Input | -20001.47 | -0.97 | 0.00 |

| Low Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 2002.07 | 0.90 | 0.04 |
| Channel X + Input | 202.26 | 0.62 | 0.31 |
| Channel X - Input | -197.79 | 0.45 | -0.23 |
| Channel Y + Input | 2001.57 | 0.59 | 0.03 |
| Channel Y + Input | 201.46 | -0.01 | -0.01 |
| Channel Y - Input | -198.80 | -0.34 | 0.17 |
| Channel Z + Input | 2001.54 | 0.51 | 0.03 |
| Channel Z + Input | 200.53 | -1.00 | -0.50 |
| Channel Z - Input | -199.57 | -1.21 | 0.61 |

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Common mode Input Voltage (mV) | High Range Average Reading (μV) | Low Range Average Reading (μV) |
|-----------|--------------------------------|--|---|
| Channel X | 200 | 5.99 | 4.73 |
| | -200 | -3.24 | -5.13 |
| Channel Y | 200 | 4.30 | 4.27 |
| | -200 | -5.85 | -5.85 |
| Channel Z | 200 | 8.94 | 9.05 |
| | -200 | -12.06 | -12.09 |

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Input Voltage (mV) | Channel X (μV) | Channel Y (μV) | Channel Z (μV) |
|-----------|--------------------|-----------------------------|-----------------------------|-----------------------------|
| Channel X | 200 | - | 6.36 | -0.99 |
| Channel Y | 200 | 9.20 | - | 7.23 |
| Channel Z | 200 | 8.41 | 6.54 | - |

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15917 | 15922 |
| Channel Y | 15876 | 15535 |
| Channel Z | 15842 | 16395 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M Ω

| | Average (μ V) | min. Offset (μ V) | max. Offset (μ V) | Std. Deviation (μ V) |
|-----------|--------------------|------------------------|------------------------|---------------------------|
| Channel X | 1.30 | -0.23 | 2.19 | 0.37 |
| Channel Y | -0.29 | -1.58 | 1.23 | 0.56 |
| Channel Z | -2.08 | -3.18 | -0.96 | 0.49 |

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9 |
| Supply (- Vcc) | -7.6 |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |

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**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Auden**

Certificate No: **ES3-3071_Jun12**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3071**

Calibration procedure(s) **QA CAL-01.v8, QA CAL-23.v4, QA CAL-25.v4
Calibration procedure for dosimetric E-field probes**

Calibration date: **June 22, 2012**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|-----------------|-----------------------------------|------------------------|
| Power meter E4419B | GB41293874 | 29-Mar-12 (No. 217-01508) | Apr-13 |
| Power sensor E4412A | MY41498087 | 29-Mar-12 (No. 217-01508) | Apr-13 |
| Reference 3 dB Attenuator | SN: S5054 (3c) | 27-Mar-12 (No. 217-01531) | Apr-13 |
| Reference 20 dB Attenuator | SN: S5086 (20b) | 27-Mar-12 (No. 217-01529) | Apr-13 |
| Reference 30 dB Attenuator | SN: S5129 (30b) | 27-Mar-12 (No. 217-01532) | Apr-13 |
| Reference Probe ES3DV2 | SN: 3013 | 29-Dec-11 (No. ES3-3013_Dec11) | Dec-12 |
| DAE4 | SN: 660 | 10-Jan-12 (No. DAE4-660_Jan12) | Jan-13 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| RF generator HP 8648C | US3642U01700 | 4-Aug-99 (in house check Apr-11) | In house check: Apr-13 |
| Network Analyzer HP 8753E | US37390585 | 18-Oct-01 (in house check Oct-11) | In house check: Oct-12 |

| | Name | Function | Signature |
|----------------|-----------------|-----------------------|-----------|
| Calibrated by: | Claudio Leubler | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: June 22, 2012

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Accreditation No.: **SCS 108**

Glossary:

| | |
|--------------------------|---|
| TSL | tissue simulating liquid |
| NORM _{x,y,z} | sensitivity in free space |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| DCP | diode compression point |
| CF | crest factor (1/duty_cycle) of the RF signal |
| A, B, C | modulation dependent linearization parameters |
| Polarization φ | φ rotation around probe axis |
| Polarization ϑ | ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis |

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- **NORM_{x,y,z}:** Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- **NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- **DCP_{x,y,z}:** DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- **PAR:** PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- **A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}:** A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- **ConvF and Boundary Effect Parameters:** Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- **Spherical isotropy (3D deviation from isotropy):** in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- **Sensor Offset:** The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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ES3DV3 – SN:3071

June 22, 2012

Probe ES3DV3

SN:3071

Manufactured: December 14, 2004
Calibrated: June 22, 2012

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

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ES3DV3- SN:3071

June 22, 2012

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3071

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|---|----------|----------|----------|--------------|
| Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A | 1.12 | 1.22 | 0.96 | $\pm 10.1\%$ |
| DCP (mV) ^B | 101.5 | 99.2 | 99.2 | |

Modulation Calibration Parameters

| UID | Communication System Name | PAR | | A dB | B dB | C dB | VR mV | Unc ^C (k=2) |
|-----|---------------------------|------|---|---------|---------|---------|----------|---------------------------|
| 0 | CW | 0.00 | X | 0.00 | 0.00 | 1.00 | 107.3 | $\pm 3.3\%$ |
| | | | Y | 0.00 | 0.00 | 1.00 | 108.0 | |
| | | | Z | 0.00 | 0.00 | 1.00 | 99.5 | |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^C Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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ES3DV3- SN:3071

June 22, 2012

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3071

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha | Depth (mm) | Unct. (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|-------|------------|-------------|
| 750 | 41.9 | 0.89 | 5.91 | 5.91 | 5.91 | 0.37 | 1.63 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 5.68 | 5.68 | 5.68 | 0.77 | 1.14 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 5.57 | 5.57 | 5.57 | 0.48 | 1.40 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 5.00 | 5.00 | 5.00 | 0.32 | 1.98 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 4.89 | 4.89 | 4.89 | 0.80 | 1.25 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 4.66 | 4.66 | 4.66 | 0.80 | 1.20 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 4.63 | 4.63 | 4.63 | 0.80 | 1.24 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 4.08 | 4.08 | 4.08 | 0.80 | 1.28 | ± 12.0 % |

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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ES3DV3- SN:3071

June 22, 2012

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3071

Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha | Depth (mm) | Unct. (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|-------|------------|-------------|
| 750 | 55.5 | 0.96 | 5.78 | 5.78 | 5.78 | 0.65 | 1.24 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 5.69 | 5.69 | 5.69 | 0.36 | 1.76 | ± 12.0 % |
| 900 | 55.0 | 1.05 | 5.62 | 5.62 | 5.62 | 0.67 | 1.27 | ± 12.0 % |
| 1450 | 54.0 | 1.30 | 5.04 | 5.04 | 5.04 | 0.66 | 1.31 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 4.50 | 4.50 | 4.50 | 0.74 | 1.29 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 4.29 | 4.29 | 4.29 | 0.60 | 1.44 | ± 12.0 % |
| 2000 | 53.3 | 1.52 | 4.37 | 4.37 | 4.37 | 0.62 | 1.46 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 3.87 | 3.87 | 3.87 | 0.80 | 1.08 | ± 12.0 % |

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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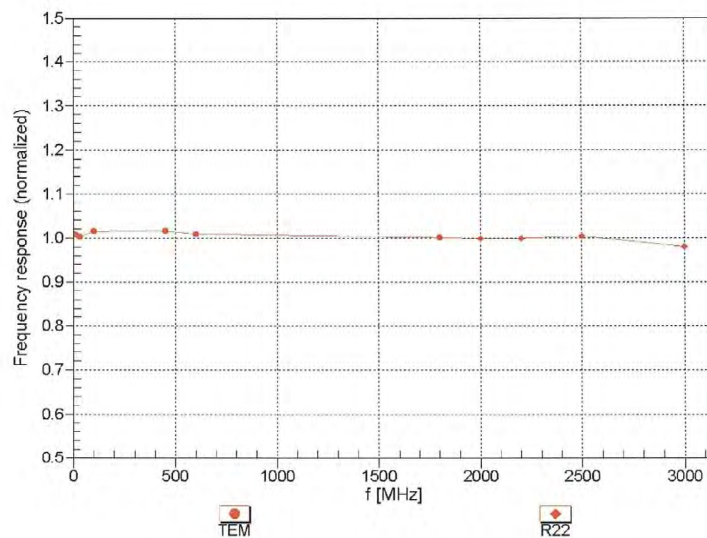
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ES3DV3-SN:3071

June 22, 2012

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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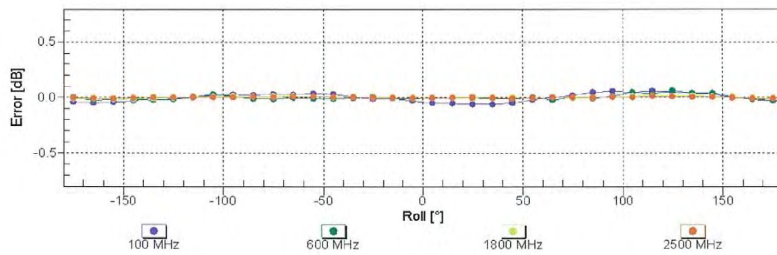
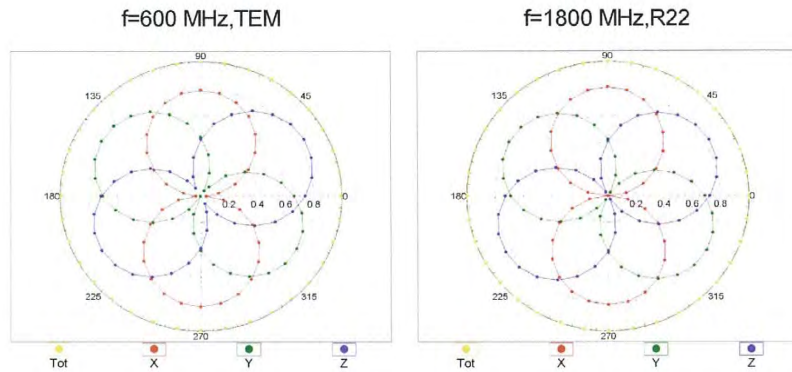
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ES3DV3-SN:3071

June 22, 2012

Receiving Pattern (ϕ), $\theta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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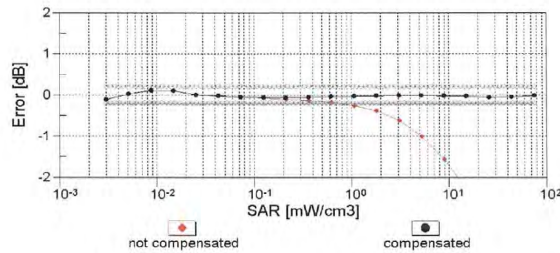
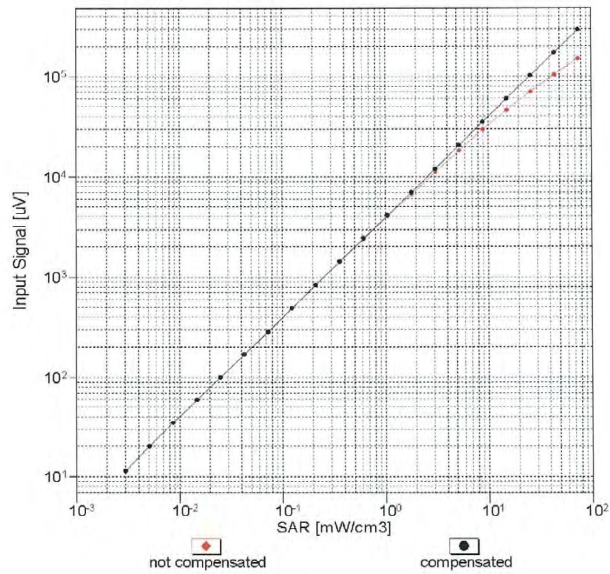
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ES3DV3- SN:3071

June 22, 2012

Dynamic Range f(SAR_{head}) (TEM cell , f = 900 MHz)



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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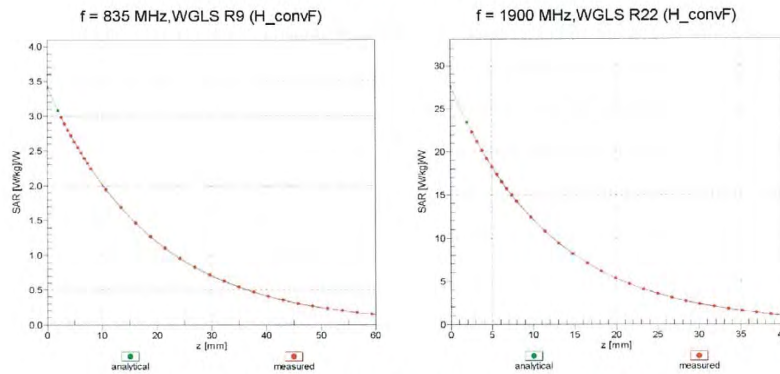
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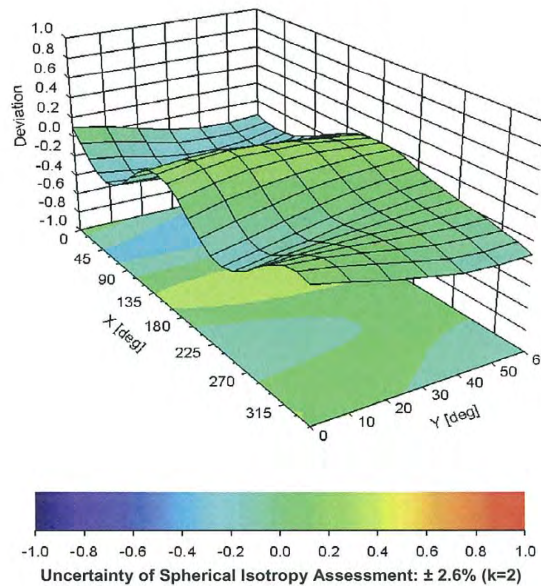
ES3DV3- SN:3071

June 22, 2012

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ , θ), f = 900 MHz



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ES3DV3- SN:3071

June 22, 2012

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3071

Other Probe Parameters

| | |
|---|------------|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | 64.9 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 10 mm |
| Tip Diameter | 4 mm |
| Probe Tip to Sensor X Calibration Point | 2 mm |
| Probe Tip to Sensor Y Calibration Point | 2 mm |
| Probe Tip to Sensor Z Calibration Point | 2 mm |
| Recommended Measurement Distance from Surface | 3 mm |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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