

Test Laboratory: UL CCS SAR Lab B

1_Vertical Ant_Down

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.4 MHz; Duty Cycle: 1:2.18776
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ mho/m; $\epsilon_r = 54.426$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.72, 7.72, 7.72); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Area Scan (51x61x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.00617 mW/g

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Zoom Scan (5x5x7)/Cube 0:

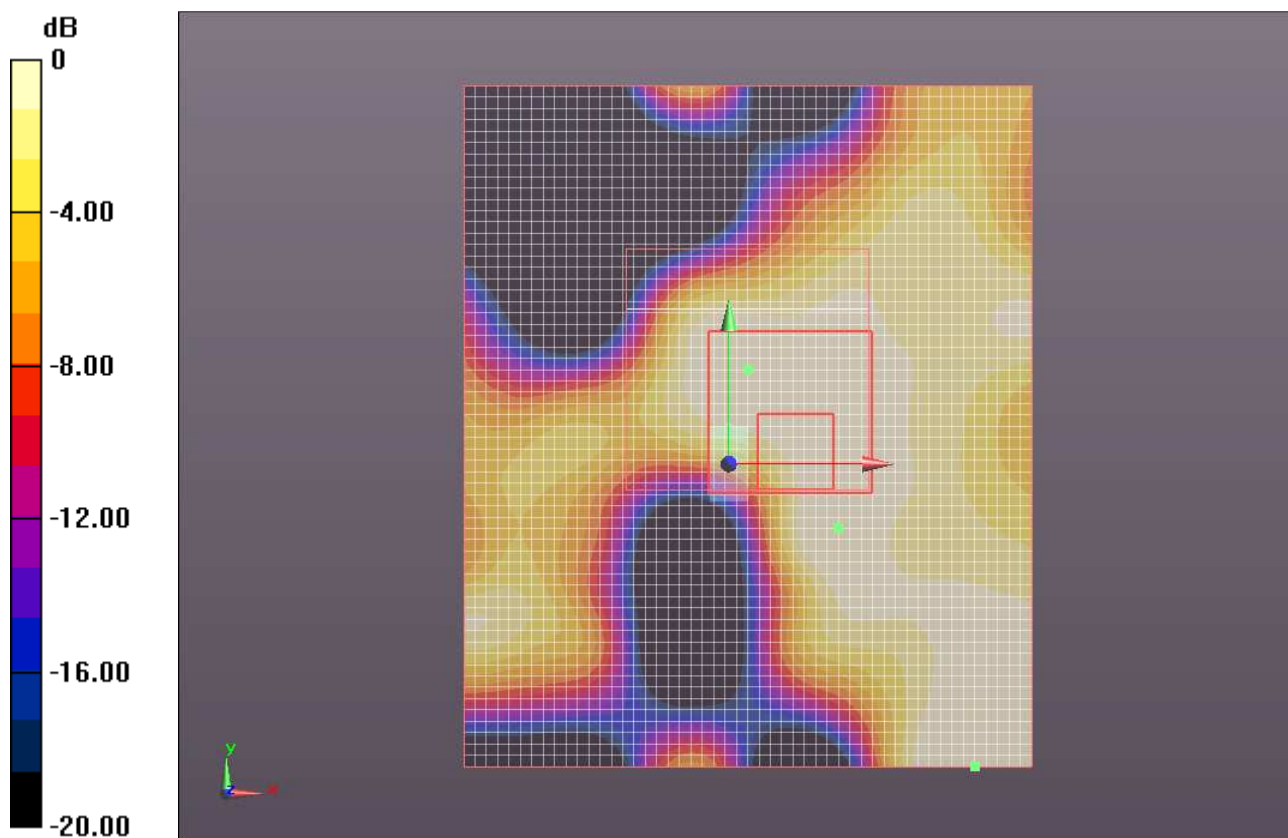
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.839 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.00928 W/kg

SAR(1 g) = 0.0027 mW/g; SAR(10 g) = 0.000835 mW/g

Maximum value of SAR (measured) = 0.00388 mW/g



0 dB = 0.0039mW/g

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2_Vertical Ant_UP

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.4 MHz; Duty Cycle: 1:2.18776
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ mho/m; $\epsilon_r = 54.426$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.72, 7.72, 7.72); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Area Scan (51x81x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.023 mW/g

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Zoom Scan (5x5x7)/Cube 0:

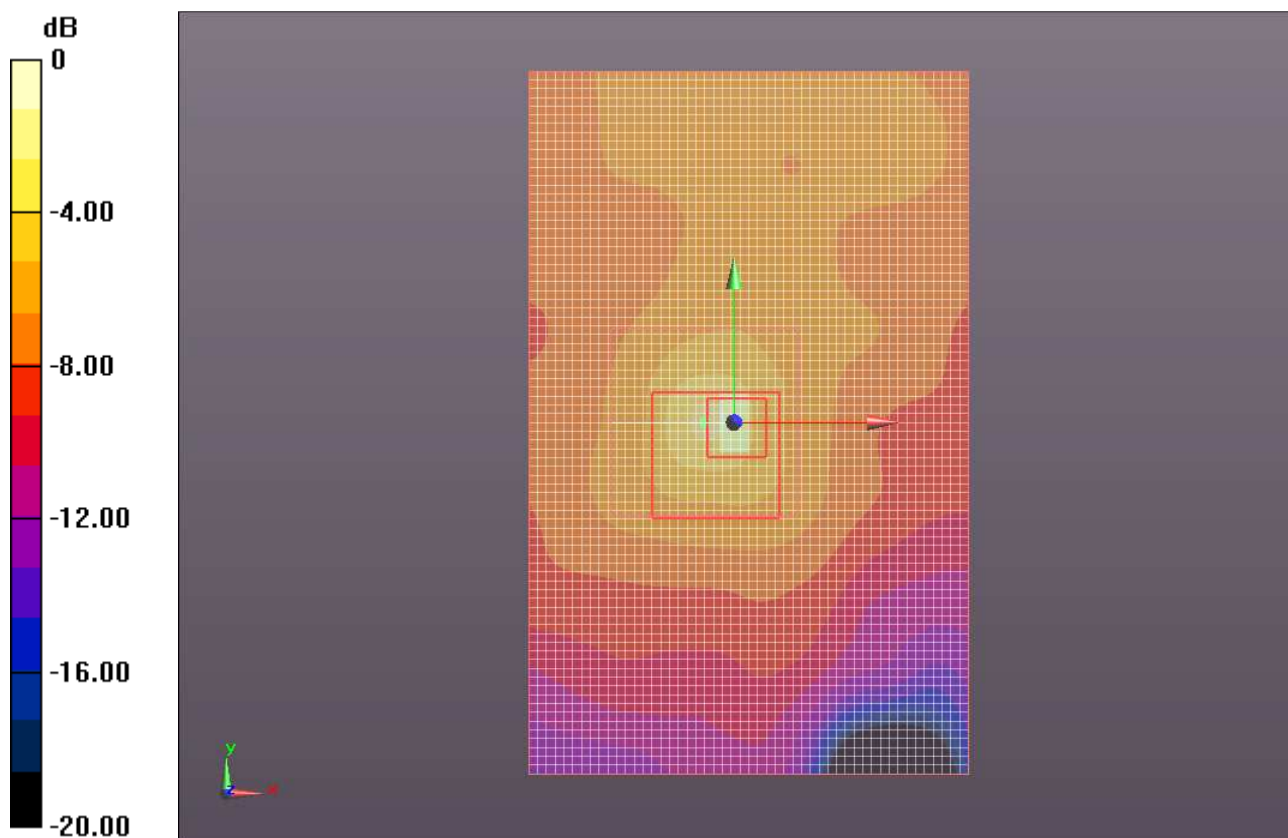
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.996 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.048 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00801 mW/g

Maximum value of SAR (measured) = 0.040 mW/g



0 dB = 0.040mW/g

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3_Horizontal Ant_UP

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.4 MHz; Duty Cycle: 1:2.18776
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ mho/m; $\epsilon_r = 54.426$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.72, 7.72, 7.72); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Area Scan (51x81x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.278 mW/g

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Zoom Scan (5x5x7)/Cube 0:

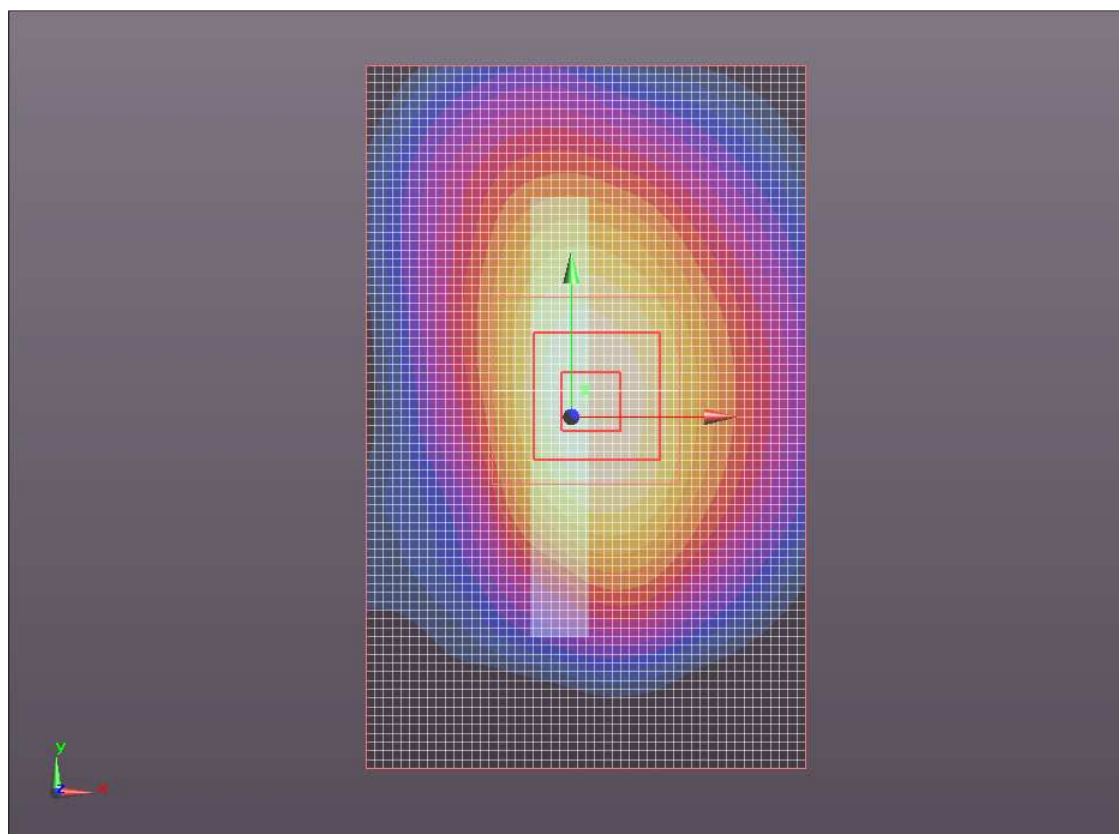
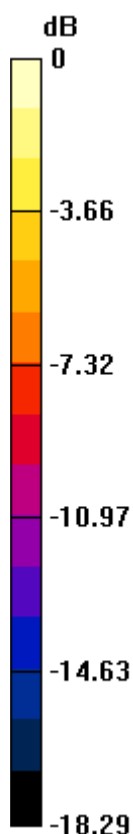
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.573 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.264 mW/g



0 dB = 0.260mW/g

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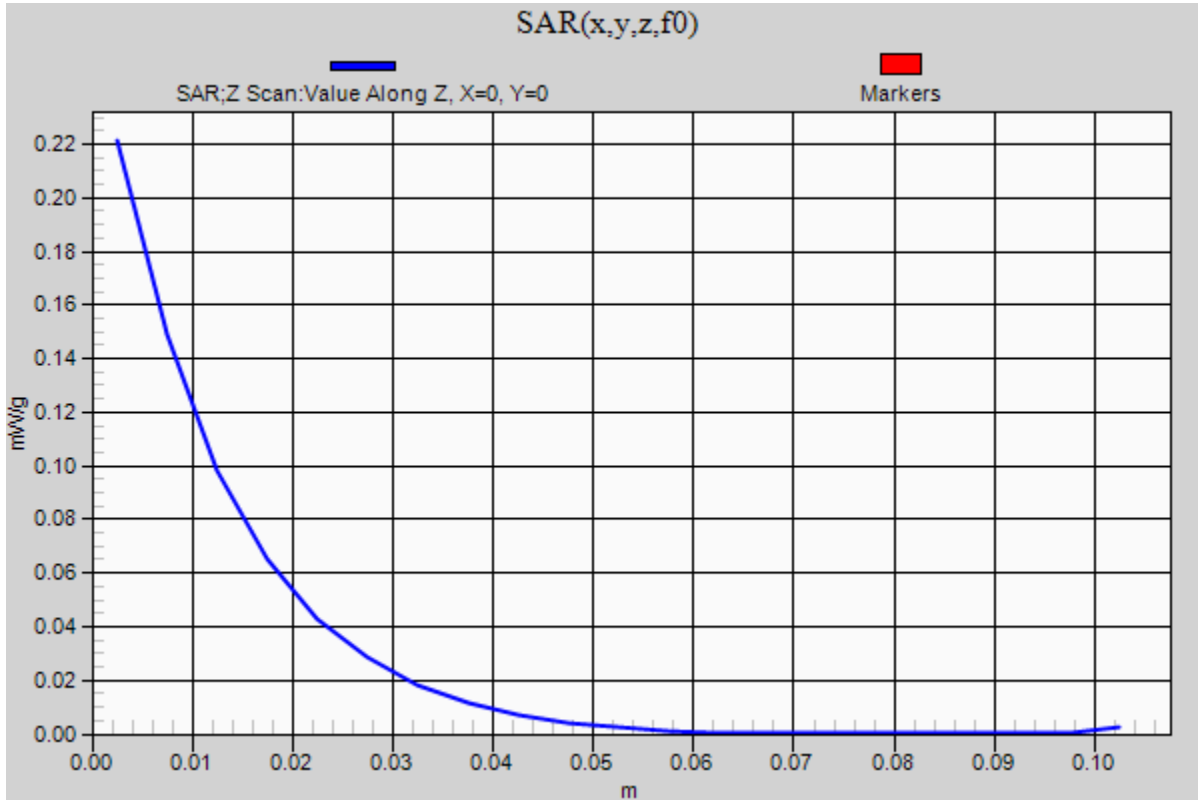
3_Horizontal Ant_UP

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.4 MHz; Duty Cycle: 1:2.18776

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.221 mW/g



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4_Horizontal Ant_down

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.4 MHz; Duty Cycle: 1:2.18776
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ mho/m; $\epsilon_r = 54.426$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.72, 7.72, 7.72); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Area Scan (51x81x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.271 mW/g

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Zoom Scan (5x5x7)/Cube 0:

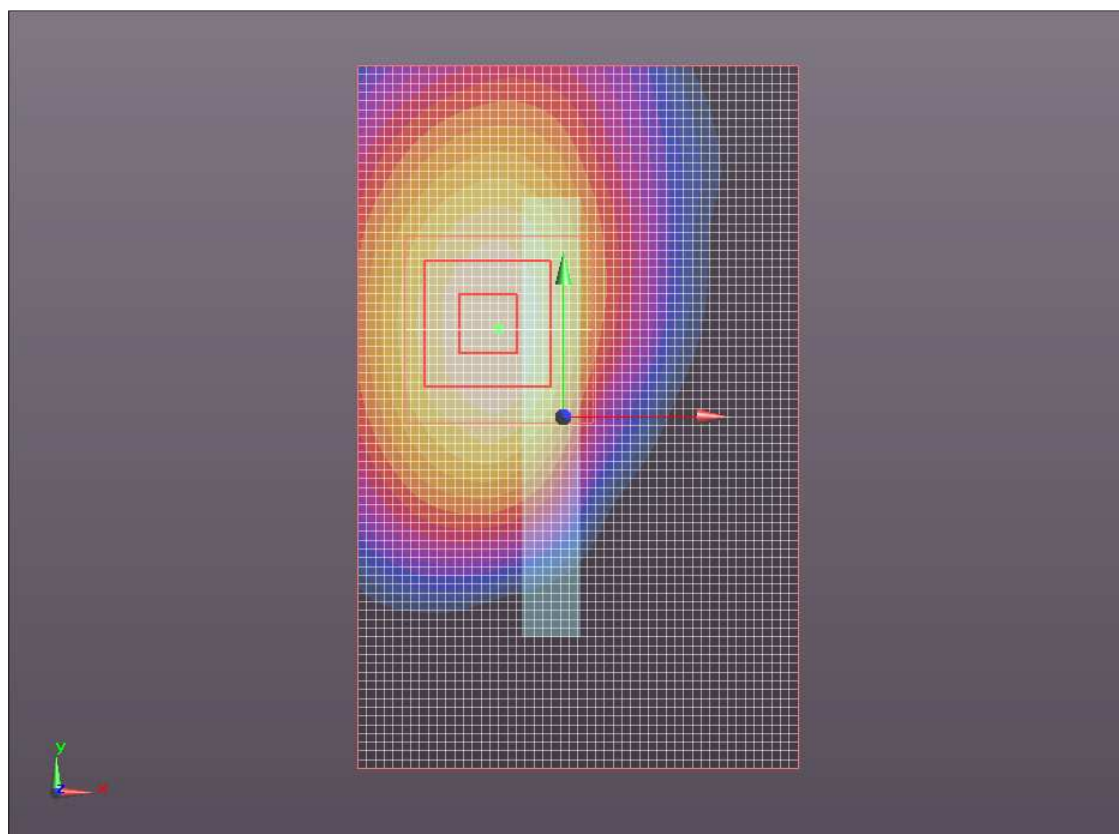
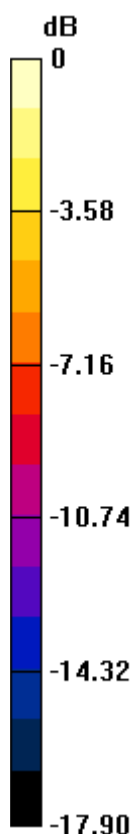
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.139 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.333 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.261 mW/g



0 dB = 0.260mW/g

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5_Horizontal Ant_Front

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.4 MHz; Duty Cycle: 1:2.18776
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ mho/m; $\epsilon_r = 54.426$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.72, 7.72, 7.72); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Area Scan (51x81x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.034 mW/g

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Zoom Scan (5x5x7)/Cube 0:

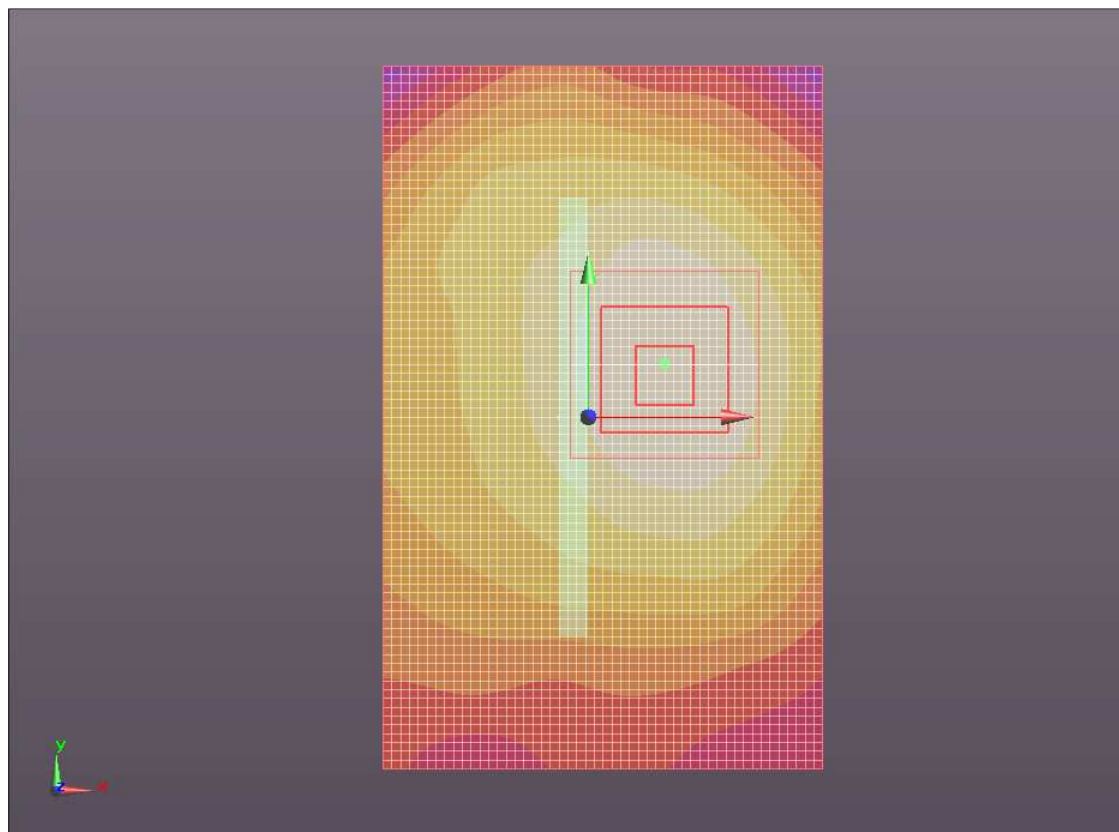
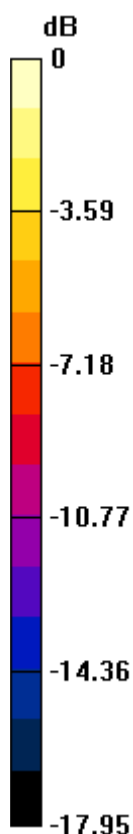
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.931 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.043 W/kg

SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.035 mW/g



0 dB = 0.030mW/g

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6_Horizontal Ant_Rear

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.4 MHz; Duty Cycle: 1:2.18776
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.404$ mho/m; $\epsilon_r = 54.426$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(7.72, 7.72, 7.72); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Area Scan (51x81x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.283 mW/g

UMTS Band IV Rel 99 RMC 12.2 kbs/Main_Ant_Ch-M/Zoom Scan (5x5x7)/Cube 0:

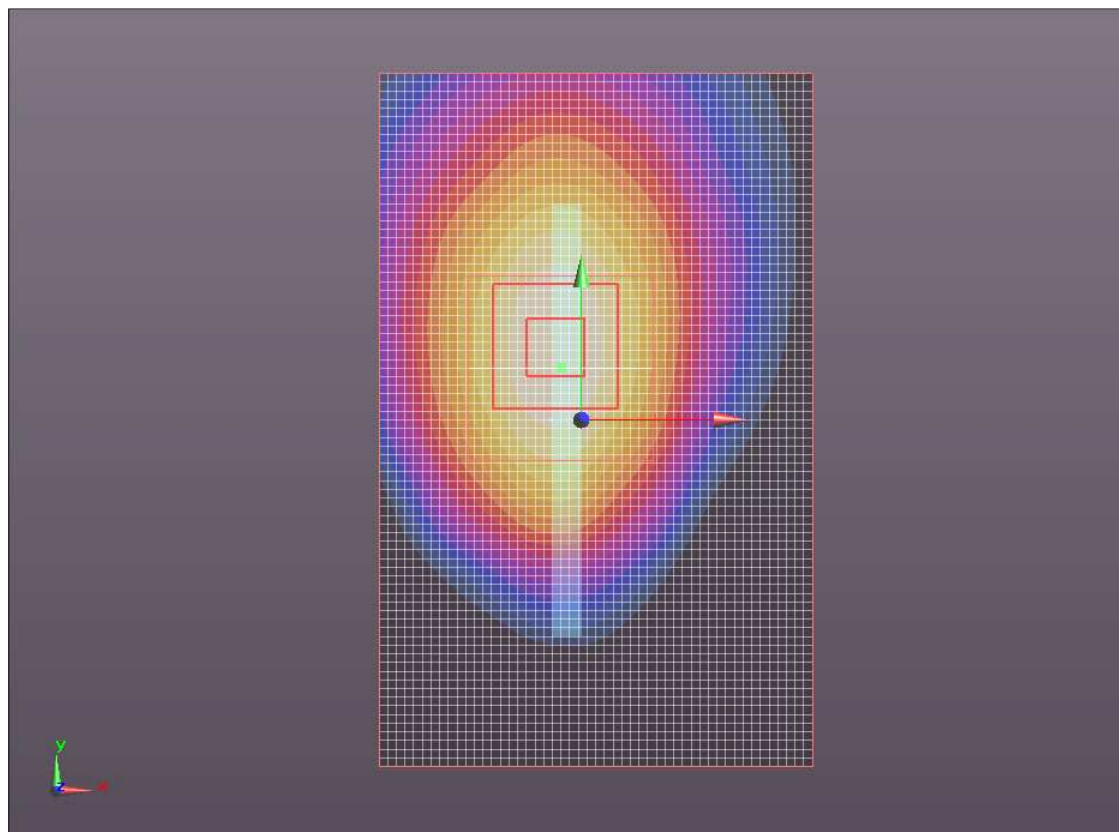
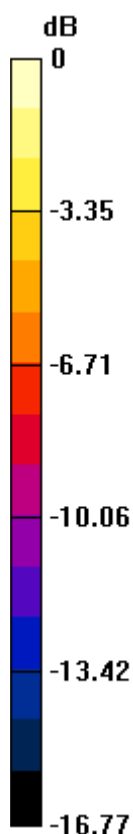
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.344 V/m; Power Drift = -0.0014 dB

Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.280mW/g