

Test Laboratory: UL CCS SAR Lab C

## LTE Band 17

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - SN3772; ConvF(8.67, 8.67, 8.67); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Edge 1/10MHz\_QPSK\_RB1\_RB0\_Mid-Ch/Area Scan (81x231x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.123 mW/g

**Edge 1/10MHz\_QPSK\_RB1\_RB0\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

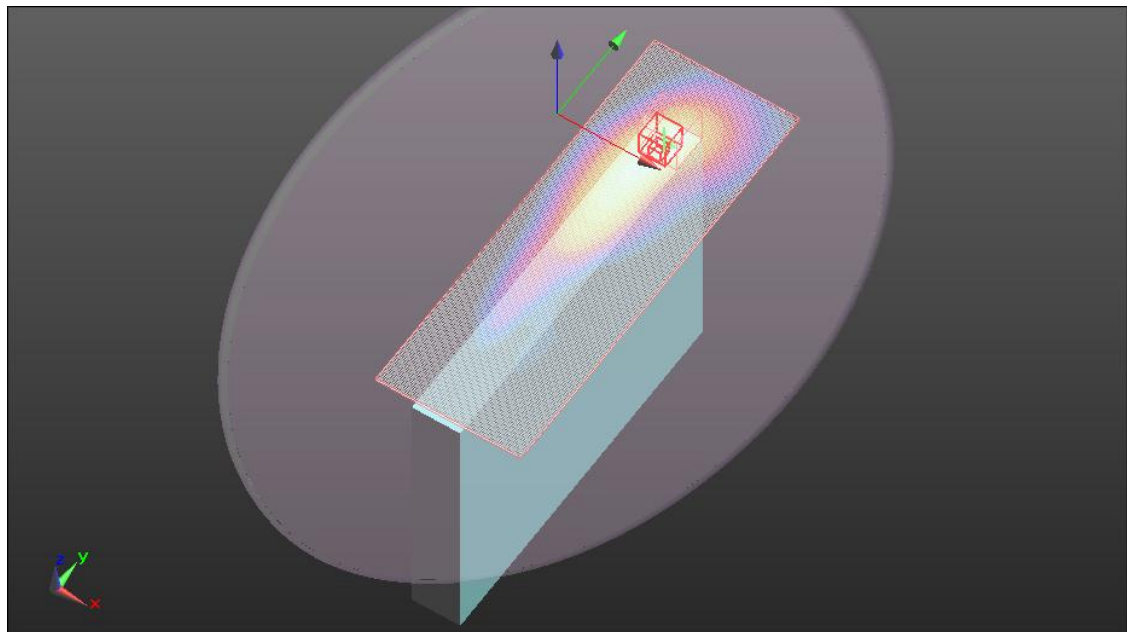
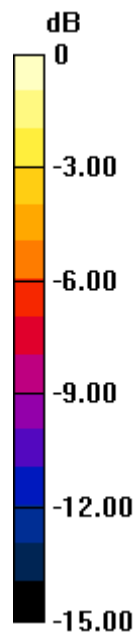
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.438 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.157 W/kg

**SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.062 mW/g**

Maximum value of SAR (measured) = 0.122 mW/g



0 dB = 0.120mW/g

Test Laboratory: UL CCS SAR Lab C

**LTE Band 17**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

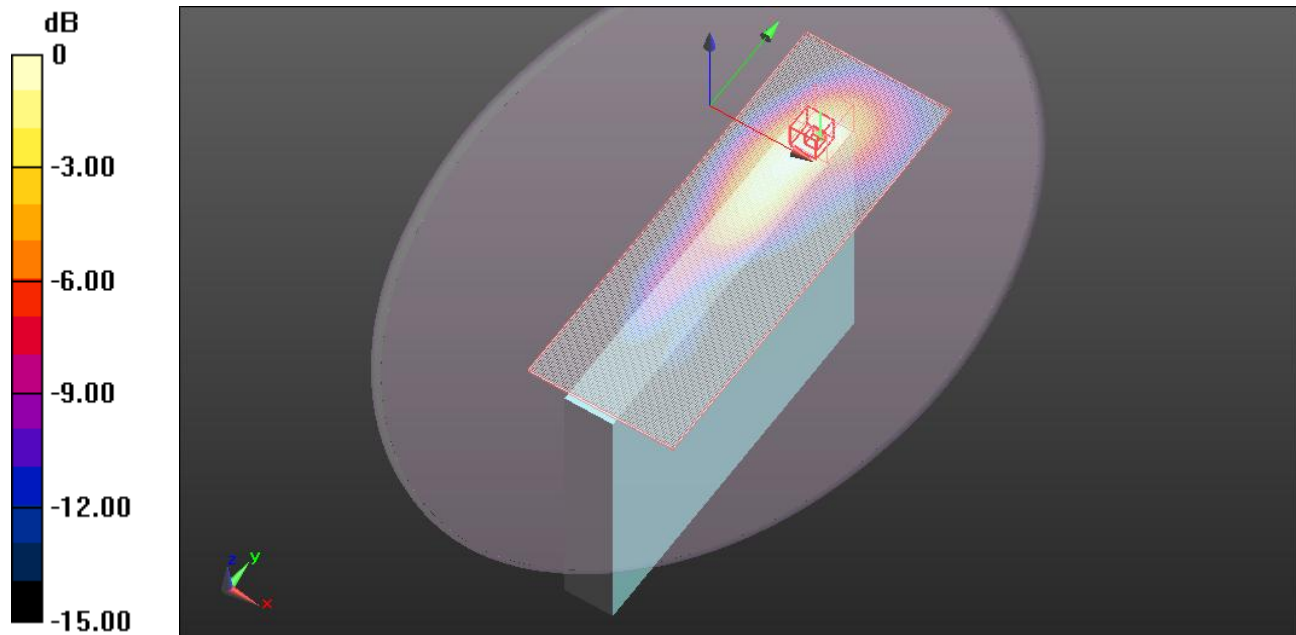
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

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 - SN3772; ConvF(8.67, 8.67, 8.67); 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 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Edge 1/10MHz\_QPSK\_RB1\_RB49\_Mid-Ch/Area Scan (81x231x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.122 mW/g

**Edge 1/10MHz\_QPSK\_RB1\_RB49\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 11.459 V/m; Power Drift = 0.05 dB  
 Peak SAR (extrapolated) = 0.160 W/kg  
**SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.062 mW/g**  
 Maximum value of SAR (measured) = 0.124 mW/g



0 dB = 0.120mW/g

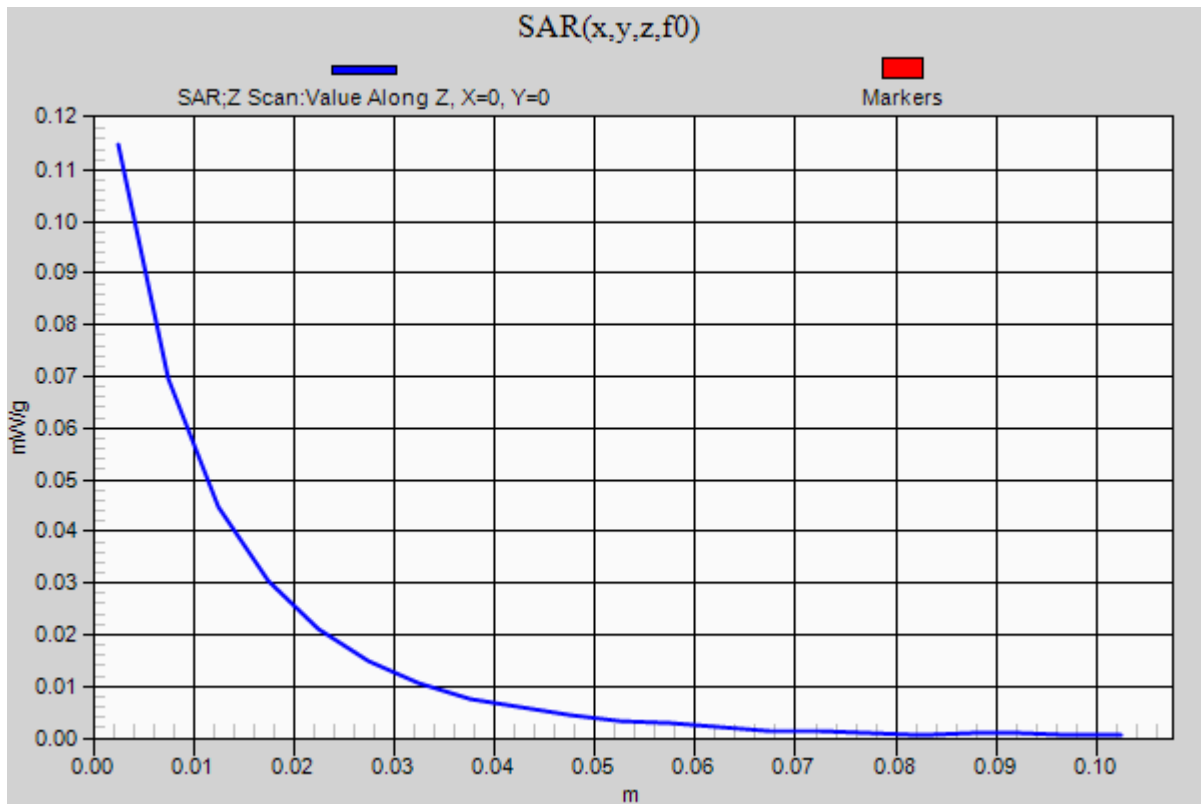
Test Laboratory: UL CCS SAR Lab C

### LTE Band 17

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

**Edge 1/10MHz\_QPSK\_RB1\_RB49\_Mid-Ch/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.115 mW/g



Test Laboratory: UL CCS SAR Lab C

**LTE Band 17**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

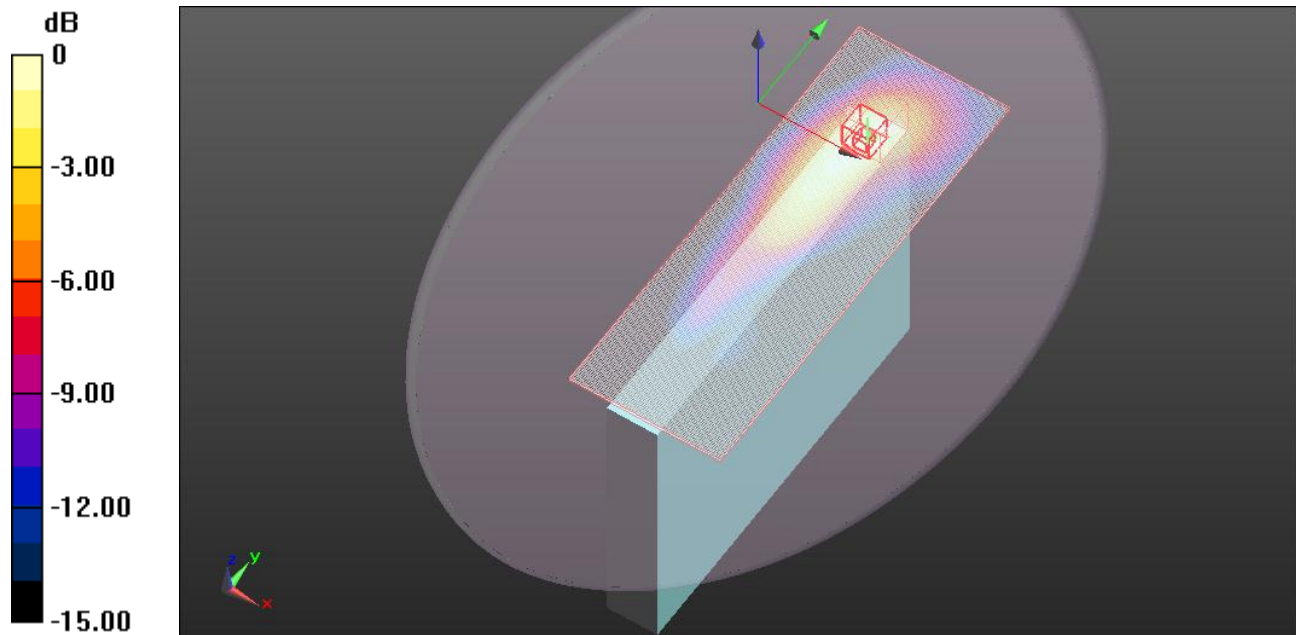
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

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 - SN3772; ConvF(8.67, 8.67, 8.67); 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 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Edge 1/10MHz\_QPSK\_RB25\_RB12\_Mid-Ch/Area Scan (81x231x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.081 mW/g

**Edge 1/10MHz\_QPSK\_RB25\_RB12\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 9.293 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 0.105 W/kg  
**SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.041 mW/g**  
 Maximum value of SAR (measured) = 0.081 mW/g



0 dB = 0.080mW/g

Test Laboratory: UL CCS SAR Lab C

**LTE Band 17**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

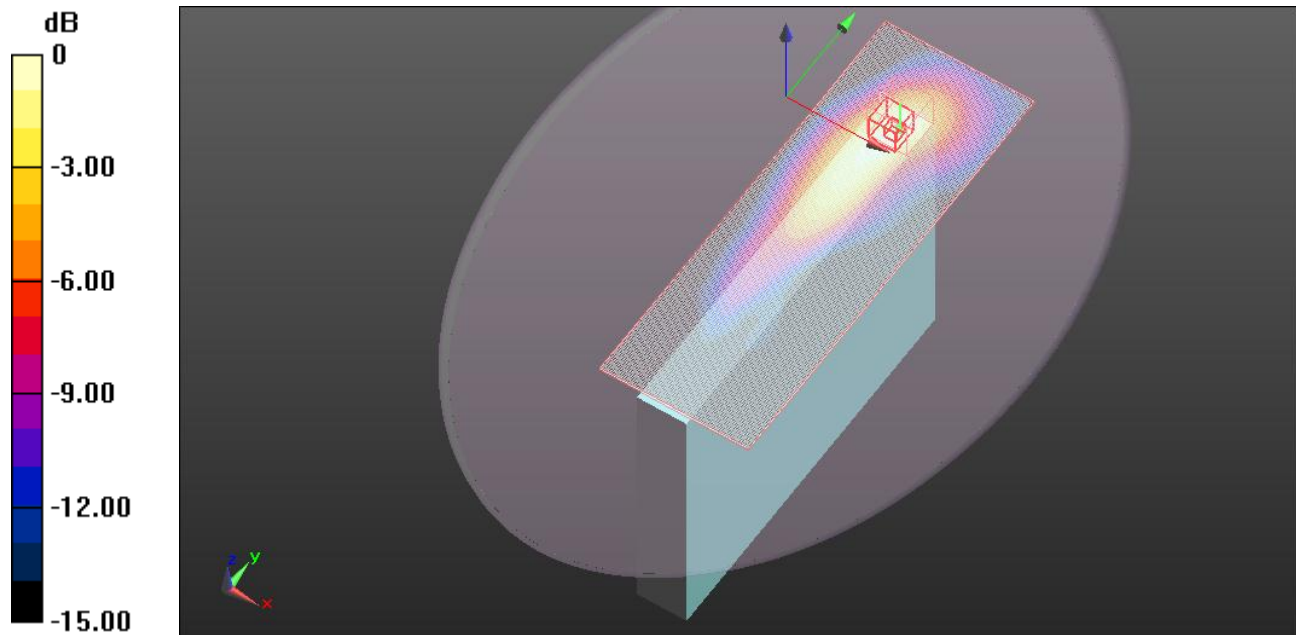
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

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 - SN3772; ConvF(8.67, 8.67, 8.67); 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 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Edge 1/10MHz\_16QAM\_RB1\_RB0\_Mid-Ch/Area Scan (81x231x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.097 mW/g

**Edge 1/10MHz\_16QAM\_RB1\_RB0\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 10.208 V/m; Power Drift = 0.10 dB  
 Peak SAR (extrapolated) = 0.125 W/kg  
**SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.049 mW/g**  
 Maximum value of SAR (measured) = 0.097 mW/g



0 dB = 0.100mW/g

Test Laboratory: UL CCS SAR Lab C

**LTE Band 17**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

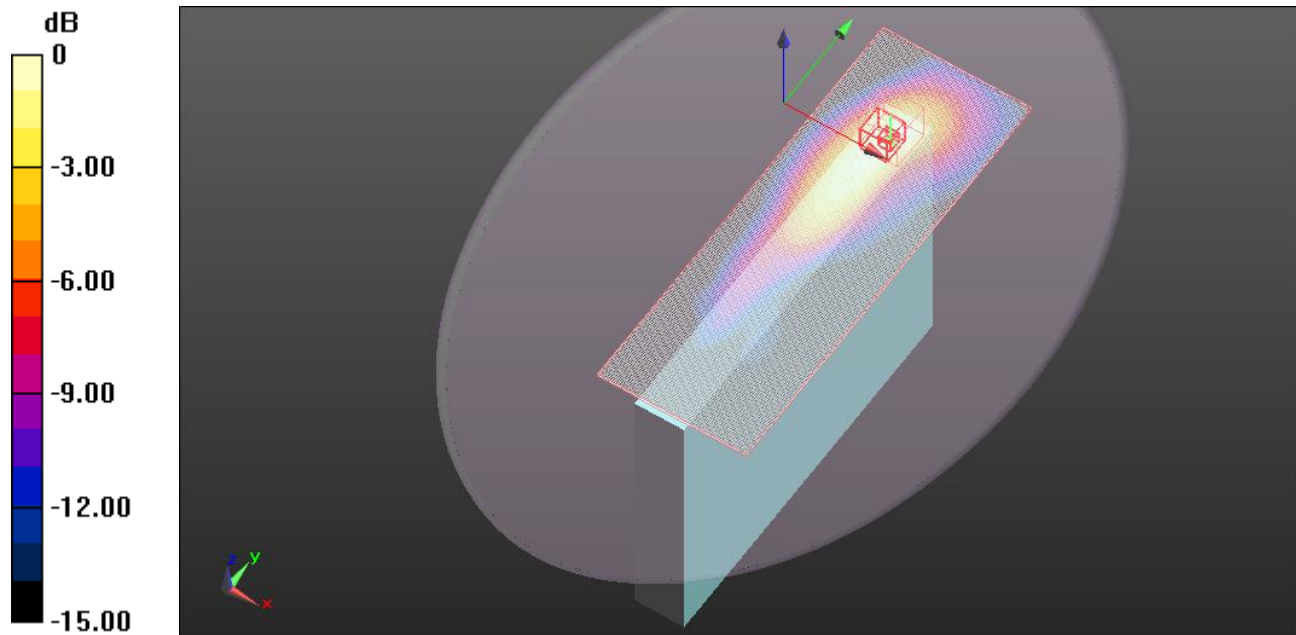
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

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 - SN3772; ConvF(8.67, 8.67, 8.67); 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 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Edge 1/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Area Scan (81x231x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.099 mW/g

**Edge 1/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  
 dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 10.267 V/m; Power Drift = 0.03 dB  
 Peak SAR (extrapolated) = 0.127 W/kg  
**SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.050 mW/g**  
 Maximum value of SAR (measured) = 0.098 mW/g



0 dB = 0.100mW/g

Test Laboratory: UL CCS SAR Lab C

**LTE Band 17**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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 - SN3772; ConvF(8.67, 8.67, 8.67); 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 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Edge 1/10MHz\_16QAM\_RB25\_RB12\_Mid-Ch/Area Scan (81x231x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.062 mW/g

**Edge 1/10MHz\_16QAM\_RB25\_RB12\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

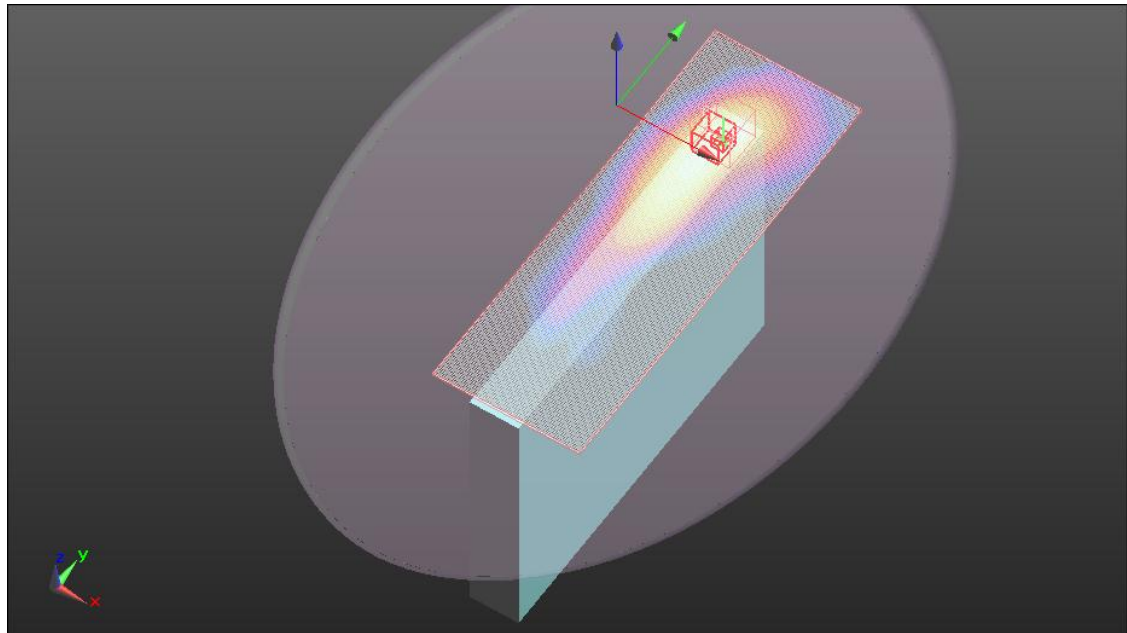
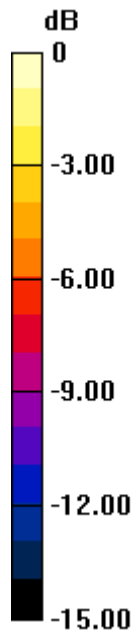
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.166 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.080 W/kg

**SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.062 mW/g



0 dB = 0.060mW/g

Test Laboratory: UL CCS SAR Lab A

## LTE Band 17

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.962$  mho/m;  $\epsilon_r = 54.079$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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 - SN3772; ConvF(8.67, 8.67, 8.67); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Bottom Face/10MHz\_QPSK\_RB1\_RB0\_Mid-Ch/Area Scan (101x121x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.068 mW/g

**Bottom Face/10MHz\_QPSK\_RB1\_RB0\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement

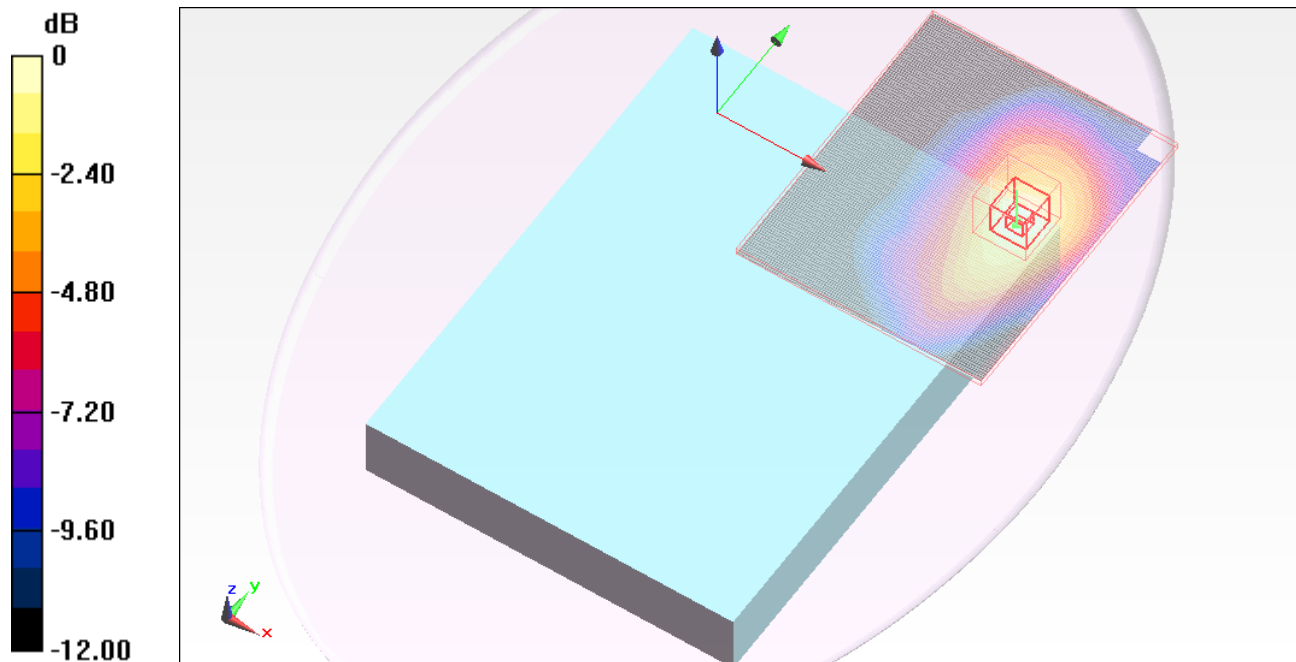
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.303 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.091 W/kg

**SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.074 mW/g



0 dB = 0.070mW/g



Test Laboratory: UL CCS SAR Lab C

## LTE Band 17

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 53.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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 - SN3772; ConvF(8.67, 8.67, 8.67); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Bottom Face/10MHz\_QPSK\_RB1\_RB49\_Mid-Ch/Area Scan (141x161x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.083 mW/g

**Bottom Face/10MHz\_QPSK\_RB1\_RB49\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement

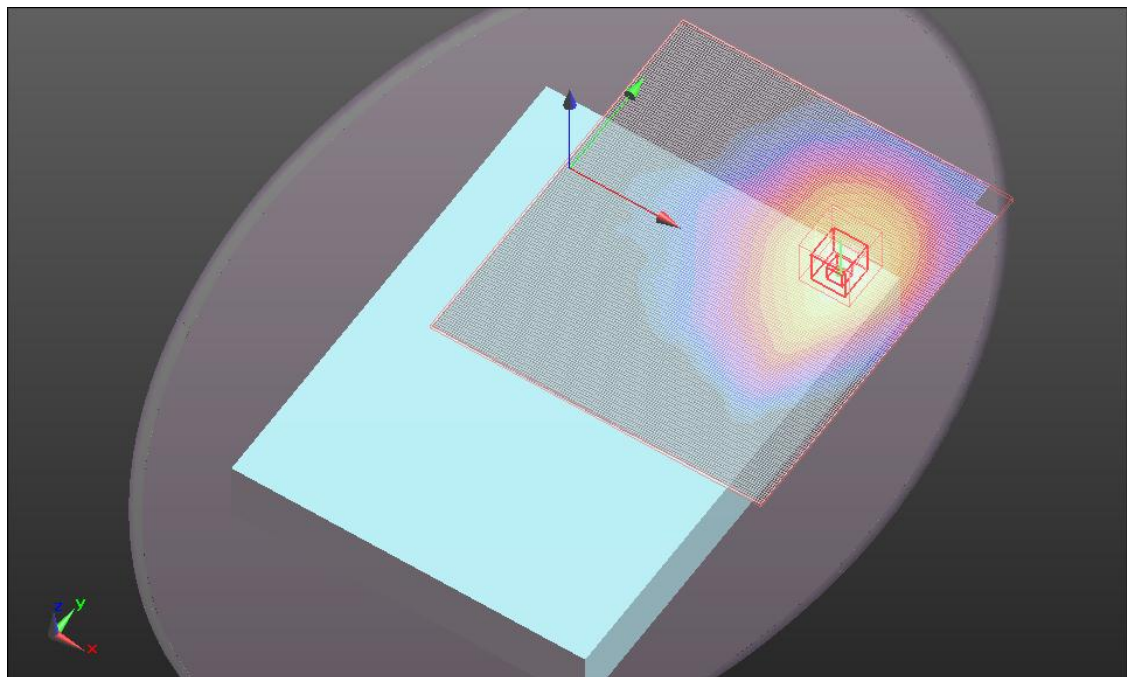
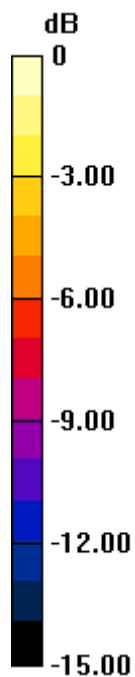
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.728 V/m; Power Drift = -0.0085 dB

Peak SAR (extrapolated) = 0.111 W/kg

**SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.090 mW/g



0 dB = 0.090mW/g

Test Laboratory: UL CCS SAR Lab A

## LTE Band 17

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.962$  mho/m;  $\epsilon_r = 54.079$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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 - SN3772; ConvF(8.67, 8.67, 8.67); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Bottom Face/10MHz\_QPSK\_RB25\_RB12\_Mid-Ch/Area Scan (101x121x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.050 mW/g

**Bottom Face/10MHz\_QPSK\_RB25\_RB12\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement

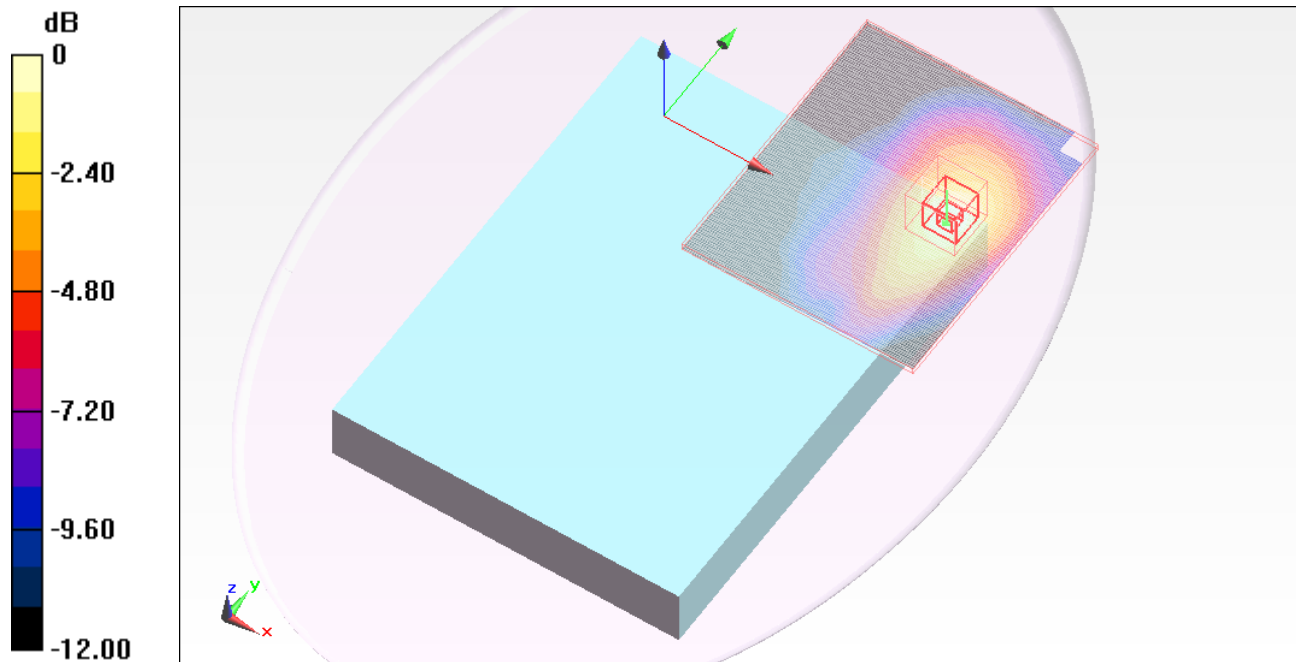
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.013 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.066 W/kg

**SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.052 mW/g



0 dB = 0.050mW/g

## LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 56.063$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1119

### Bottom Face/10MHz\_16QAM\_RB1\_RB0\_Mid-Ch/Area Scan (9x15x1): Measurement grid:

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

Maximum value of SAR (measured) = 0.063 mW/g

### Bottom Face/10MHz\_16QAM\_RB1\_RB0\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

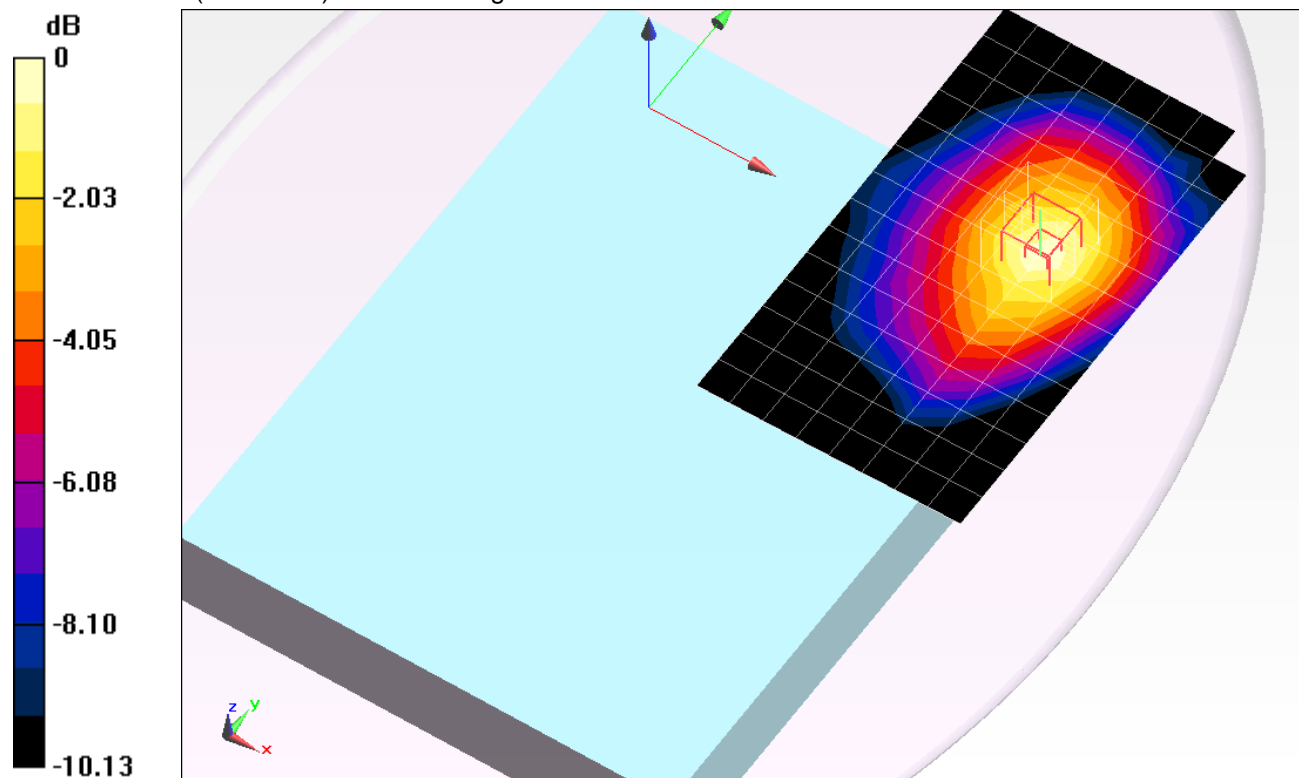
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.211 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0780

**SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.035 mW/g**

Maximum value of SAR (measured) = 0.064 mW/g



0 dB = 0.060mW/g = -24.44 dB mW/g

## LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 56.063$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1119

### Bottom Face/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Area Scan (9x15x1): Measurement grid:

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

Maximum value of SAR (measured) = 0.071 mW/g

### Bottom Face/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement

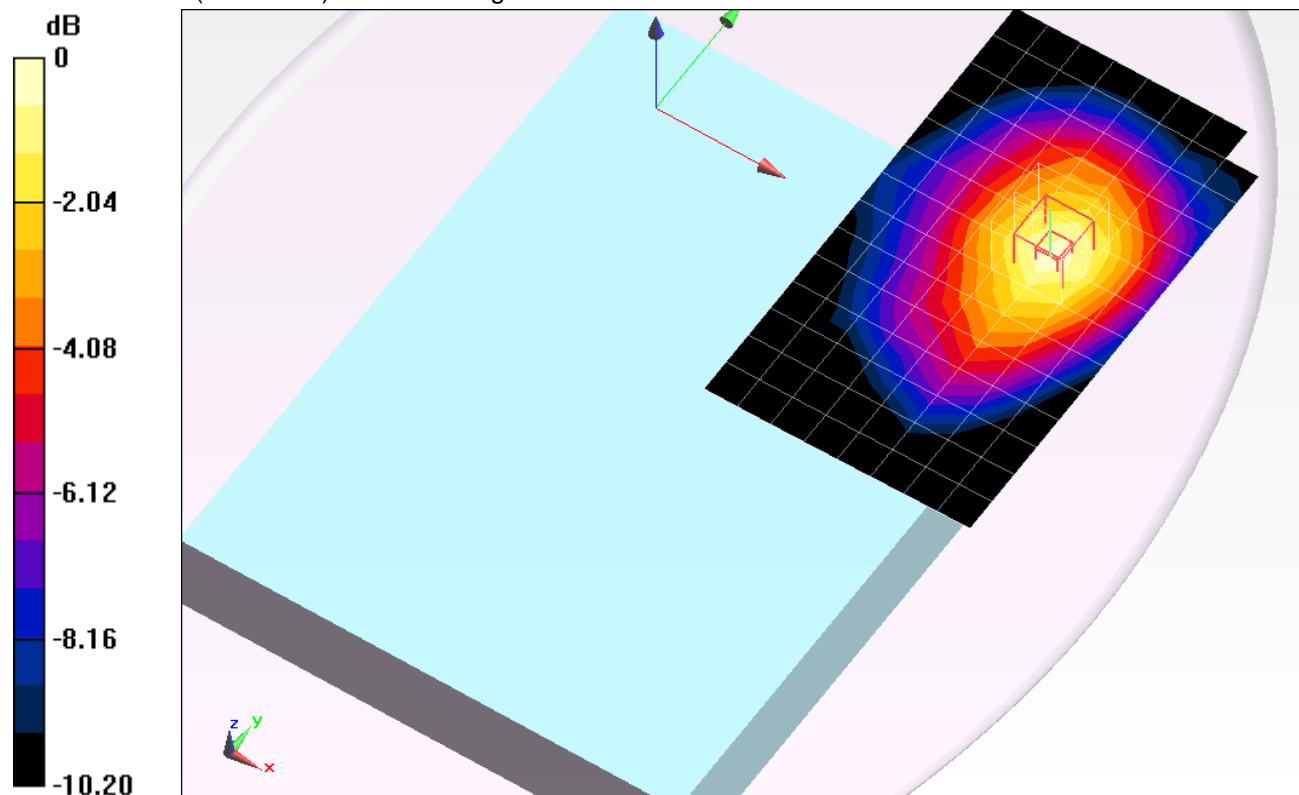
grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.760 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.0860

**SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.040 mW/g**

Maximum value of SAR (measured) = 0.072 mW/g

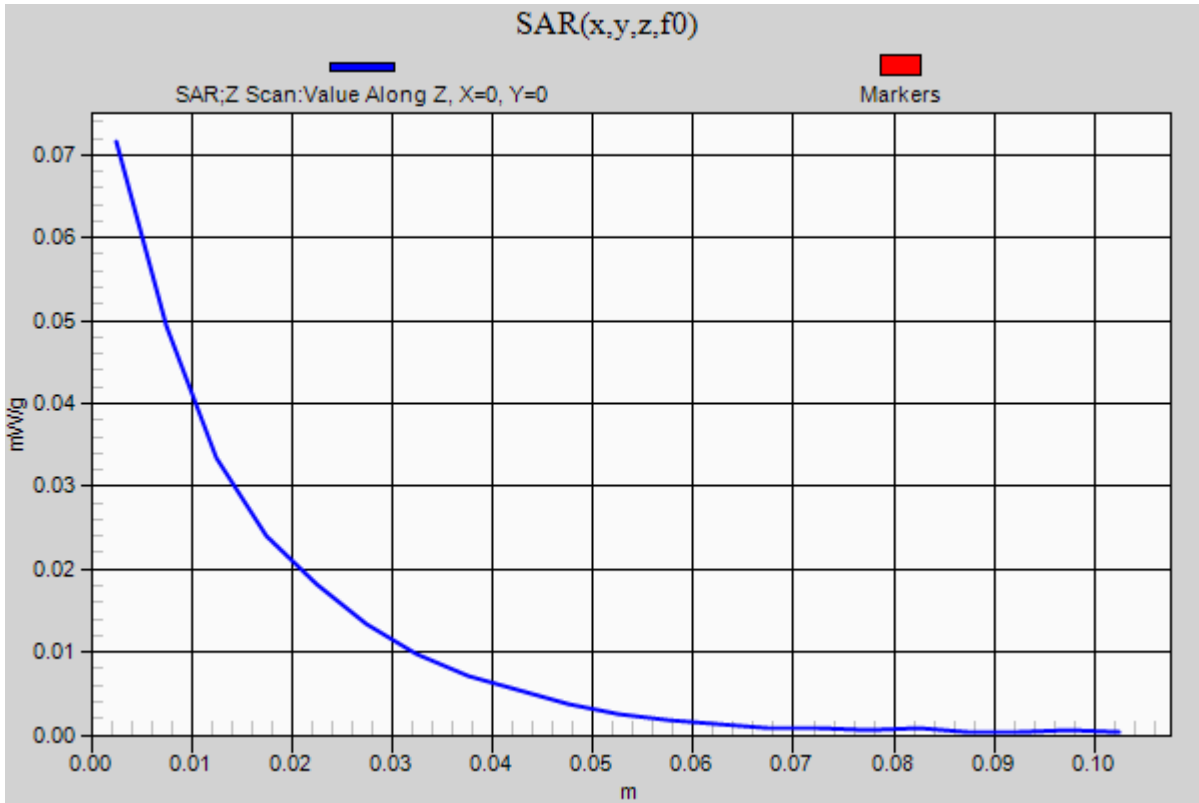


0 dB = 0.070mW/g = -23.10 dB mW/g

## LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1

**Bottom Face/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 0.072 mW/g



## LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 56.063$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1119

### Bottom Face/10MHz\_16QAM\_RB25\_RB12\_Mid-Ch/Area Scan (9x15x1): Measurement grid:

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

Maximum value of SAR (measured) = 0.045 mW/g

### Bottom Face/10MHz\_16QAM\_RB25\_RB12\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:

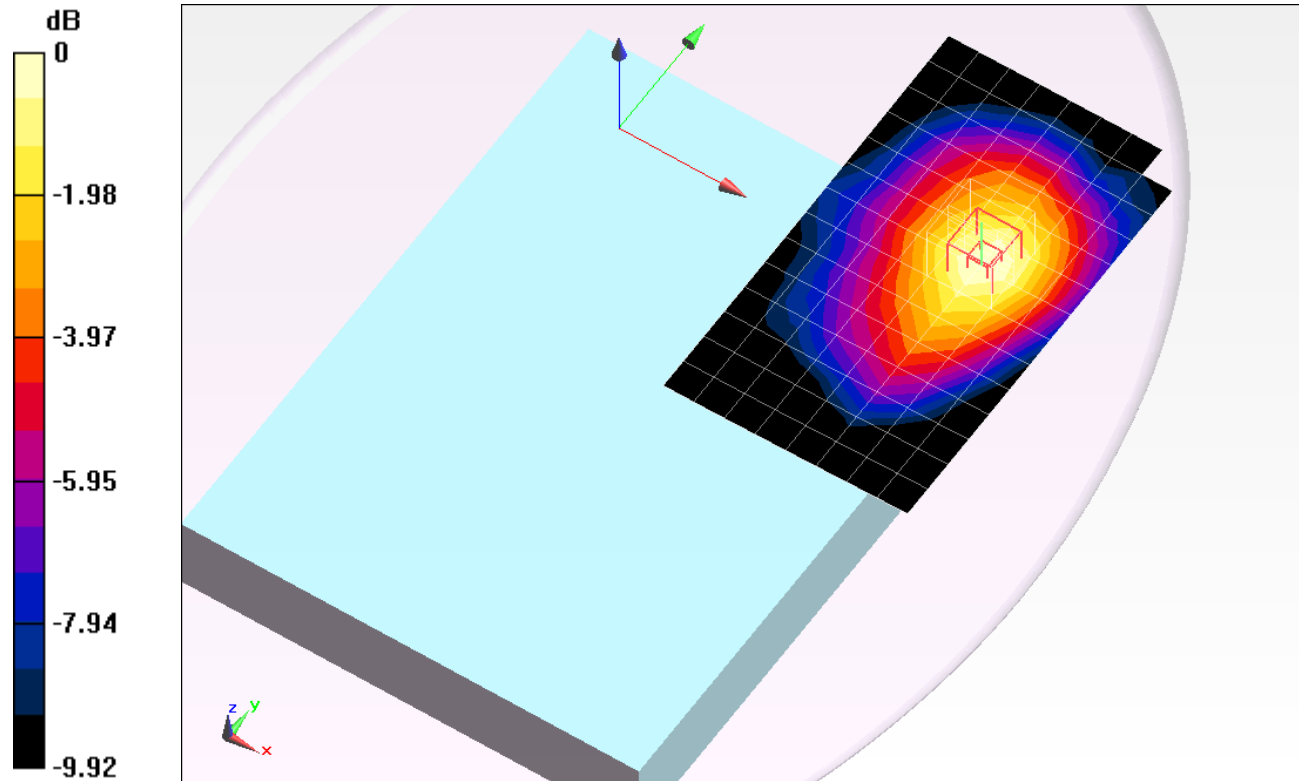
Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.802 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0530

**SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.024 mW/g**

Maximum value of SAR (measured) = 0.044 mW/g



0 dB = 0.040mW/g = -27.96 dB mW/g

Test Laboratory: UL CCS SAR Lab A

**LTE Band 17**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.962$  mho/m;  $\epsilon_r = 54.079$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - SN3772; ConvF(8.67, 8.67, 8.67); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Lap Held/10MHz\_QPSK\_RB1\_RB0\_Mid-Ch/Area Scan (161x141x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.012 mW/g

**Lap Held/10MHz\_QPSK\_RB1\_RB0\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

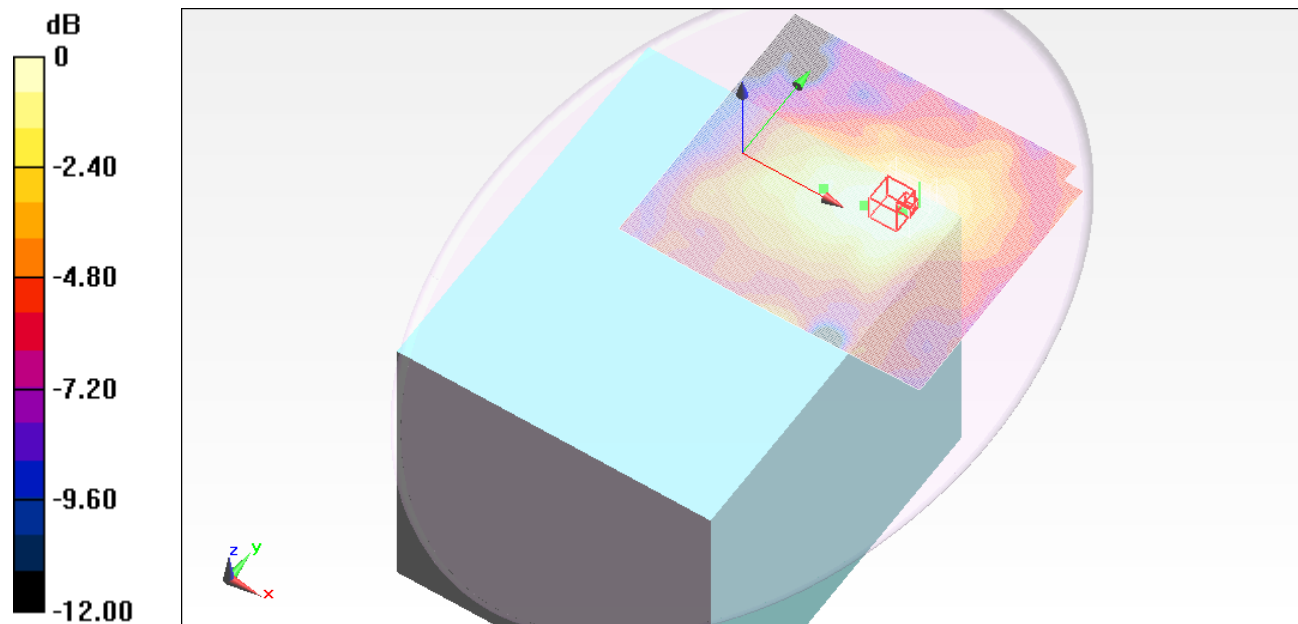
dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.508 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0140

**SAR(1 g) = 0.00979 mW/g; SAR(10 g) = 0.00744 mW/g**

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.010mW/g = -40.00 dB mW/g

Test Laboratory: UL CCS SAR Lab C

## LTE Band 17

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.894 \text{ mho/m}$ ;  $\epsilon_r = 53.982$ ;  $\rho = 1000 \text{ kg/m}^3$   
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 - SN3772; ConvF(8.67, 8.67, 8.67); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Phantom: ELI v4.0 (B); Type: QDOVA001BB; Serial: 1121
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

### Lap Held/10MHz\_QPSK\_RB1\_RB49\_Mid-Ch/Area Scan (141x161x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.011 mW/g

### Lap Held/10MHz\_QPSK\_RB1\_RB49\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

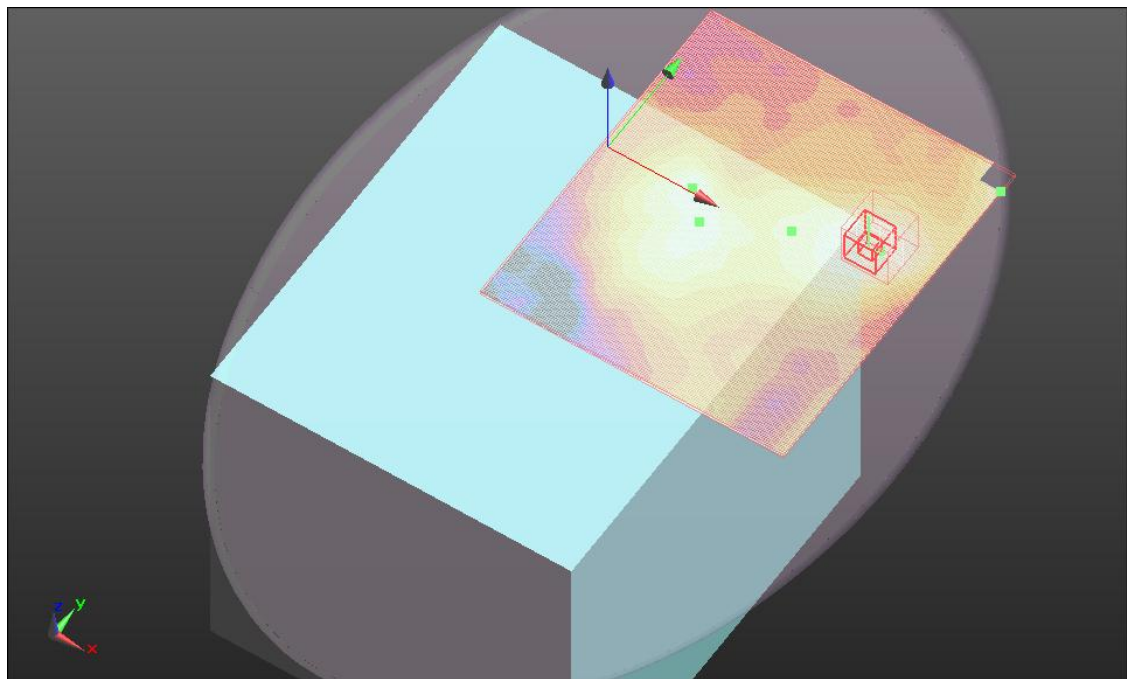
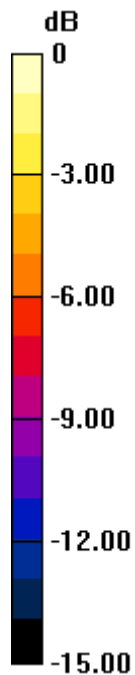
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 3.592 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.013 W/kg

**SAR(1 g) = 0.00999 mW/g; SAR(10 g) = 0.00745 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.010mW/g



Test Laboratory: UL CCS SAR Lab A

## LTE Band 17

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.962$  mho/m;  $\epsilon_r = 54.079$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - SN3772; ConvF(8.67, 8.67, 8.67); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: ELI v4.0(A); Type: QDOVA001BB; Serial: 1119
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Lap Held/10MHz\_QPSK\_RB25\_RB12\_Mid-Ch/Area Scan (161x141x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.021 mW/g

**Lap Held/10MHz\_QPSK\_RB25\_RB12\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

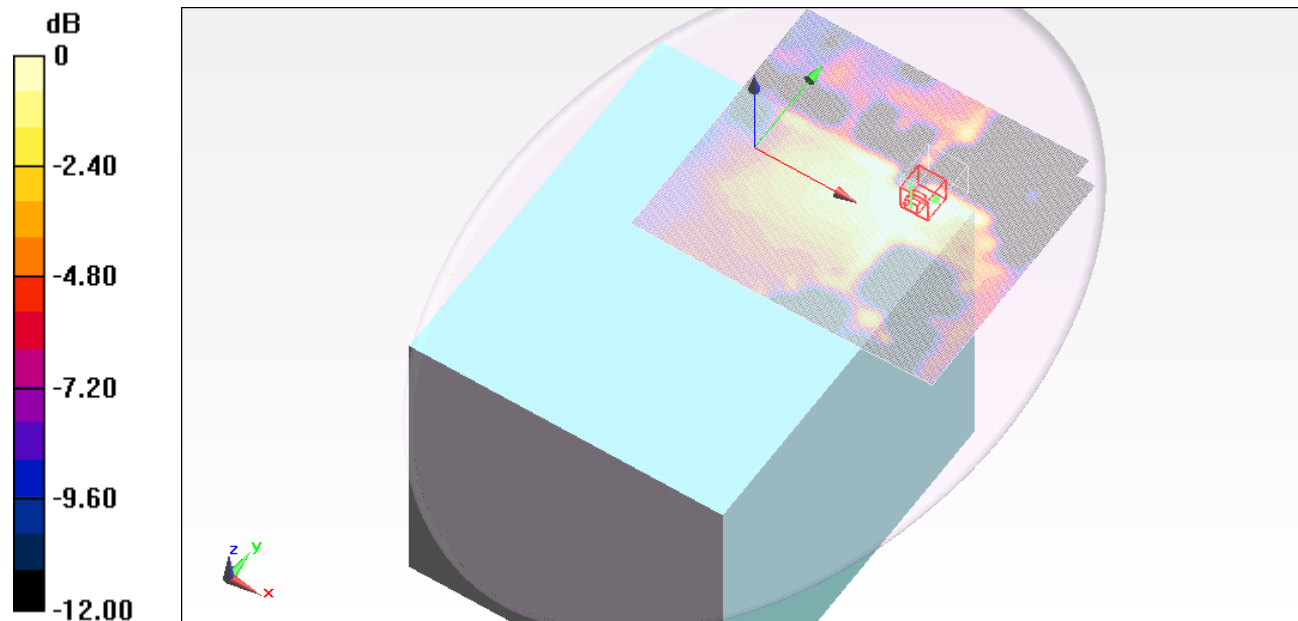
dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.007 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.00990

**SAR(1 g) = 0.0075 mW/g; SAR(10 g) = 0.00529 mW/g**

Maximum value of SAR (measured) = 0.0088 mW/g



0 dB = 0.0088mW/g = -41.11 dB mW/g

## LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 56.063$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1119

**Lap Held/10MHz\_16QAM\_RB1\_RB0\_Mid-Ch/Area Scan (13x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.00926 mW/g

**Lap Held/10MHz\_16QAM\_RB1\_RB0\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

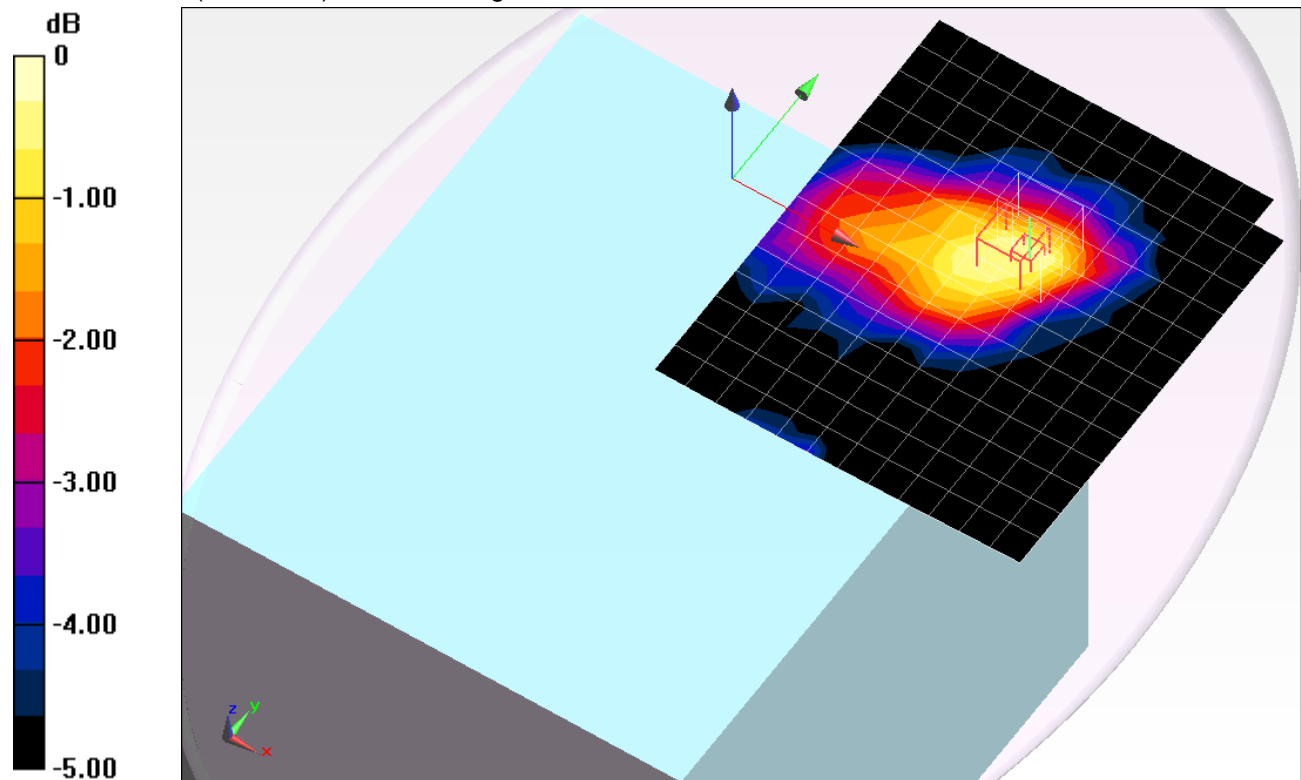
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 3.092 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0120

**SAR(1 g) = 0.00871 mW/g; SAR(10 g) = 0.00636 mW/g**

Maximum value of SAR (measured) = 0.010 mW/g



0 dB = 0.010mW/g = -40.00 dB mW/g

## LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 56.063$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1119

**Lap Held/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Area Scan (13x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.011 mW/g

**Lap Held/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

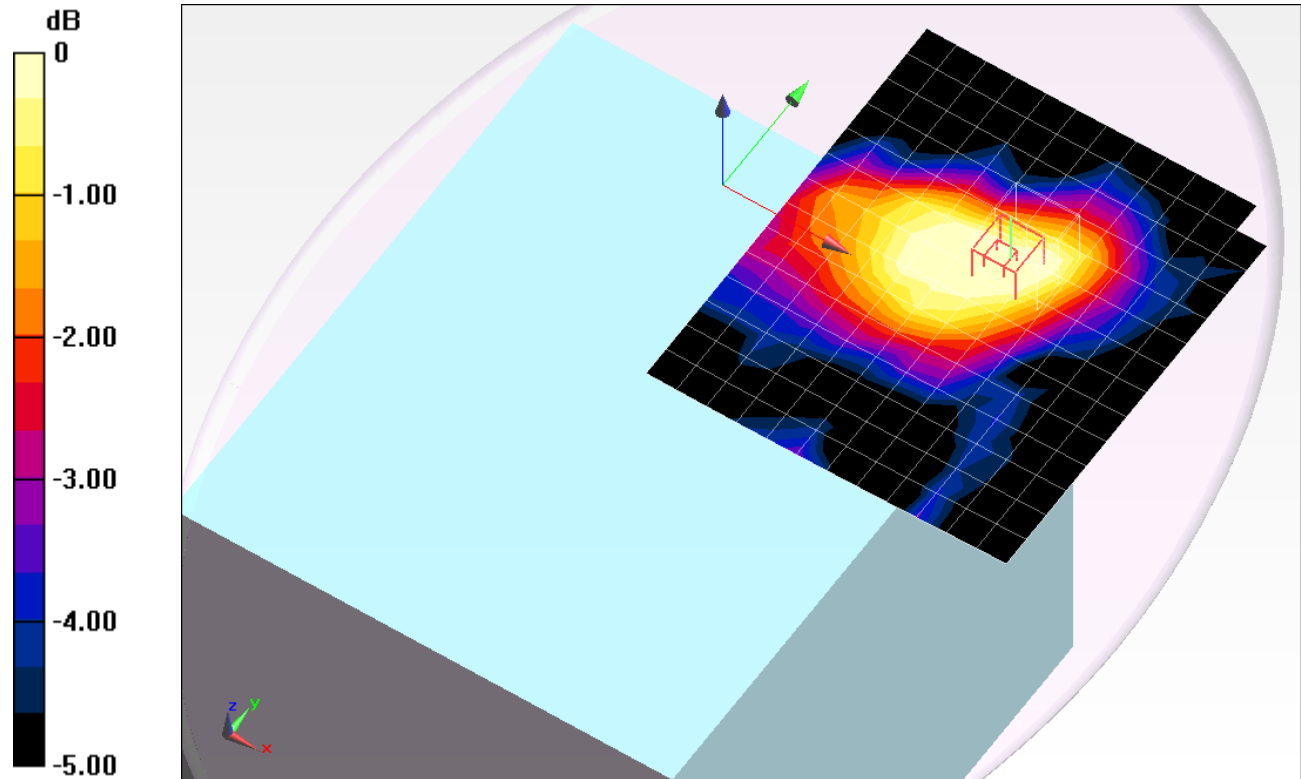
dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.186 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0140

**SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00711 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g

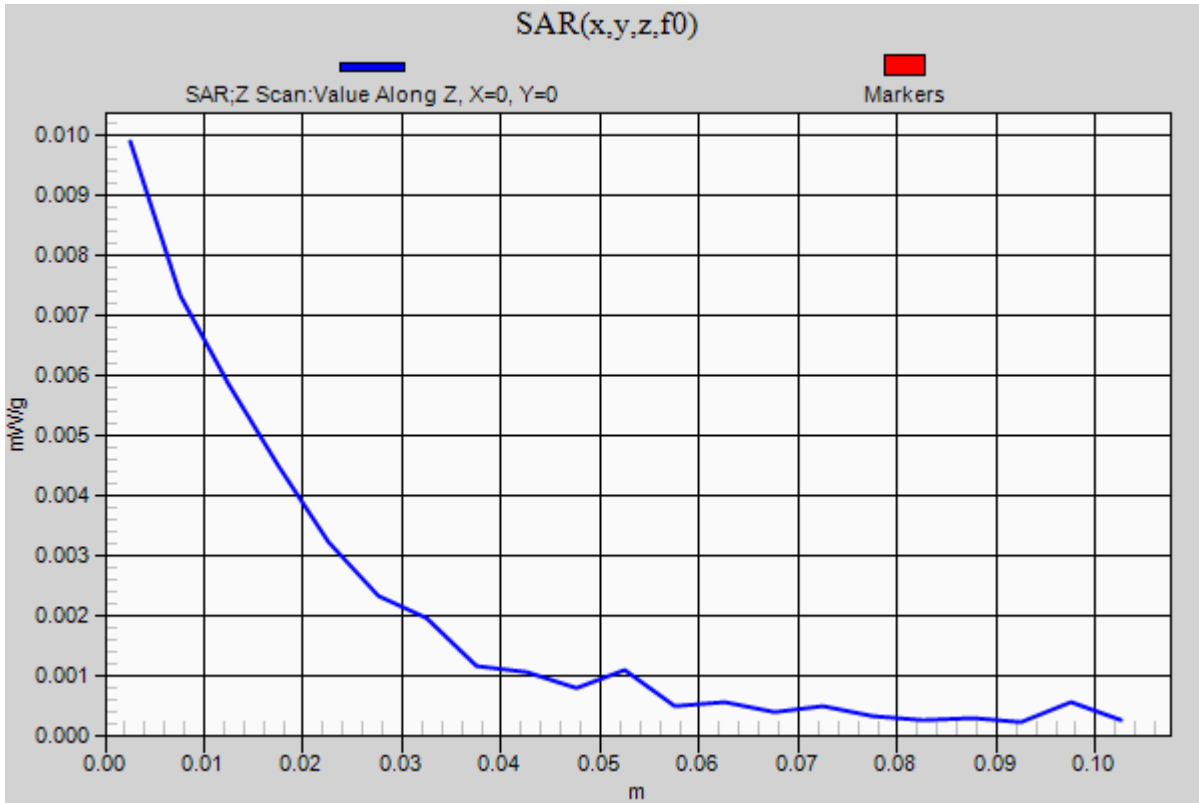


0 dB = 0.010mW/g = -40.00 dB mW/g

### LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1

**Lap Held/10MHz\_16QAM\_RB1\_RB49\_Mid-Ch/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 0.00988 mW/g



## LTE Band 17

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.976 \text{ mho/m}$ ;  $\epsilon_r = 56.063$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1119

### Lap Held/10MHz\_16QAM\_RB25\_RB12\_Mid-Ch/Area Scan (13x15x1): Measurement grid:

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

Maximum value of SAR (measured) = 0.00705 mW/g

### Lap Held/10MHz\_16QAM\_RB25\_RB12\_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

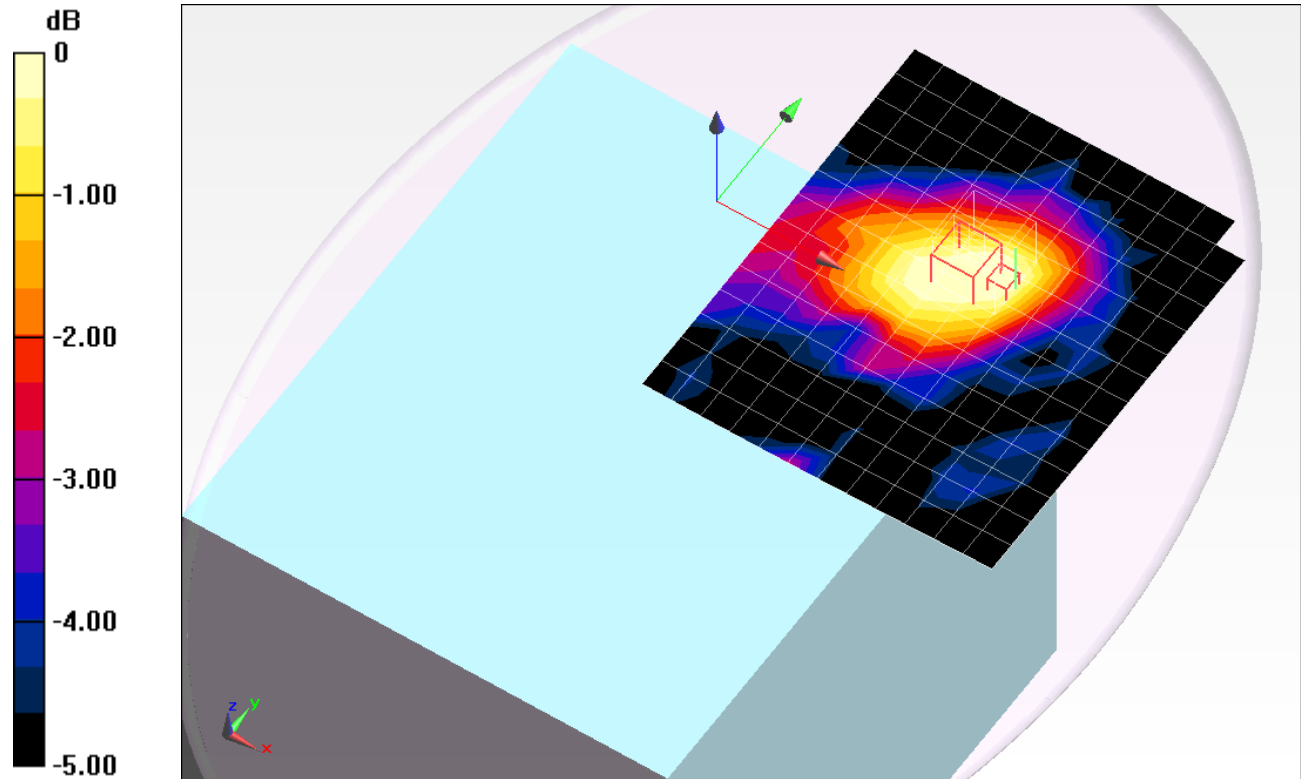
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 2.522 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.007880

**SAR(1 g) = 0.00556 mW/g; SAR(10 g) = 0.00427 mW/g**

Maximum value of SAR (measured) = 0.00646 mW/g



0 dB = 0.0065mW/g = -43.74 dB mW/g