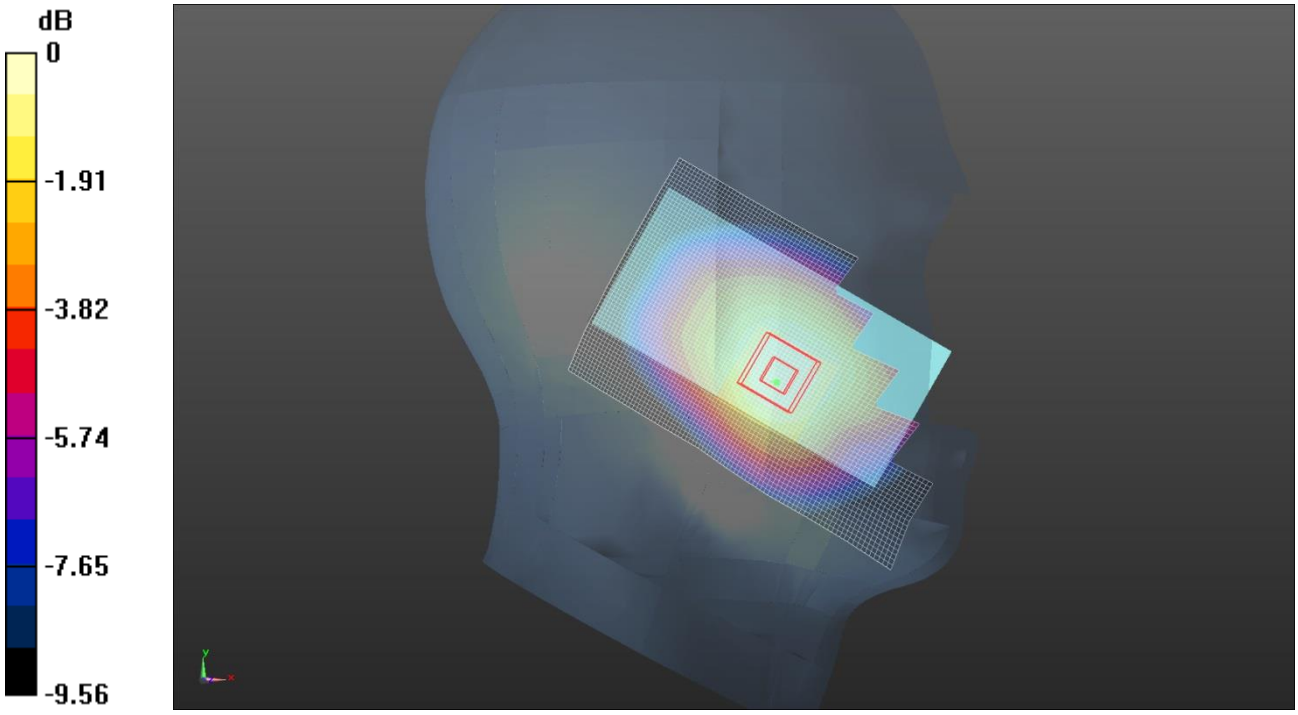
12.8. Baseline Plots

12.8.1. Baseline Plots – A1428

Touch Left of EUT GSM 850 CH190 - UL VS Ltd

Date: 14/10/2014
DUT: A1428



0 dB = 0.587 W/kg = -2.31 dBW/kg

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.901 S/m; ε_r = 41.982; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3995; ConvF(9.99, 9.99, 9.99); Calibrated: 9/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/5/2014
- Phantom: SAM (20deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Left - Middle/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.601 W/kg
Configuration/Touch Left - Middle/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.535 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.676 W/kg
SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.432 W/kg
Maximum value of SAR (measured) = 0.587 W/kg

Touch Left of EUT GSM 850 CH190 - Extract from Original Report

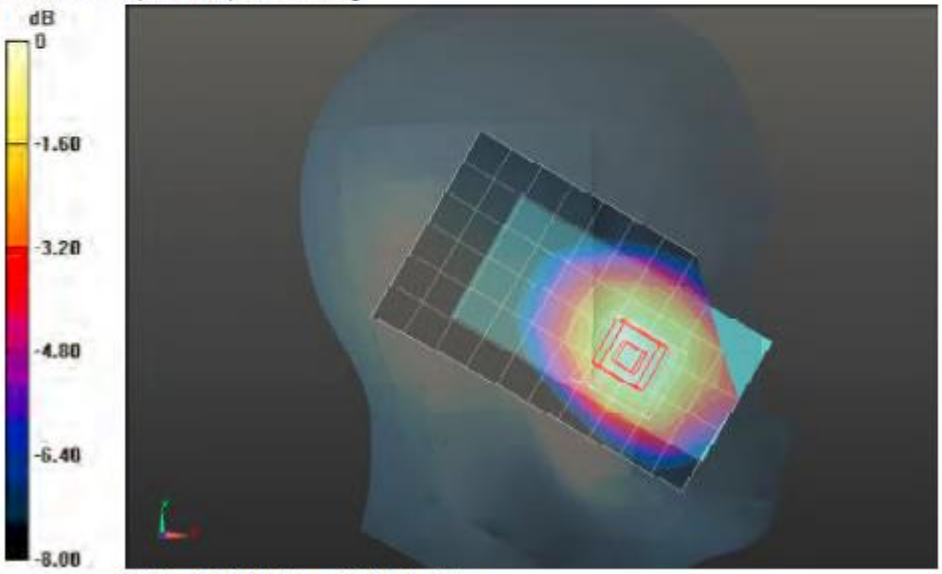
Test Laboratory: UL CCS SAR Lab C Date: 7/1/2012

GSM850 (Primary Antenna)

Frequency: 836.6 MHz; Duty Cycle: 1:8.00018; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.879 mho/m; ε_r = 41.731; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Probe: EX3DV4 - SN3751; ConvF(8.35, 8.35, 8.35); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

LHS/Touch_Voice_ch 190/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.758 mW/g

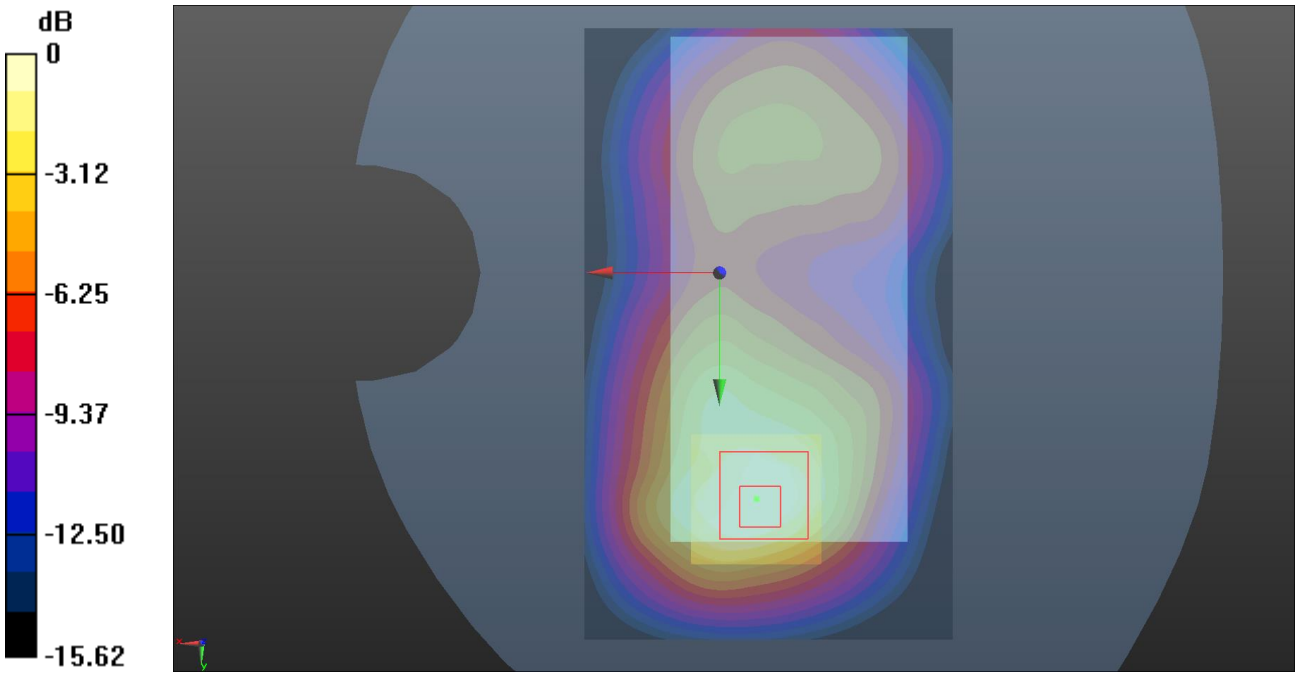
LHS/Touch_Voice_ch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.680 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.8570
SAR(1 g) = 0.716 mW/g; SAR(10 g) = 0.553 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.776 mW/g



0 dB = 0.780mW/g = -2.16 dB mW/g

Back of EUT PCS 1900 GPRS 2Tx CH810 - UL VS Ltd

Date: 15/10/2014
DUT: A1428



0 dB = 0.883 W/kg = -0.54 dBW/kg

Communication System: UID 0, GPRS 1900 2Tx; Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1909.8 MHz; σ = 1.547 S/m; ε_r = 52.626; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1529; ConvF(4.46, 4.46, 4.46); Calibrated: 22/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 16/5/2014
- Phantom: SAM 12b (Site 56); Type: SAM 4.0; Serial: TP:1192
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Back of the EUT Facing the Phantom - High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.970 W/kg
Configuration/Back of the EUT Facing the Phantom - High/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.32 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.792 W/kg; SAR(10 g) = 0.449 W/kg
Maximum value of SAR (measured) = 0.883 W/kg

Back of EUT PCS 1900 GPRS 2Tx CH810 - Extract from Original Report

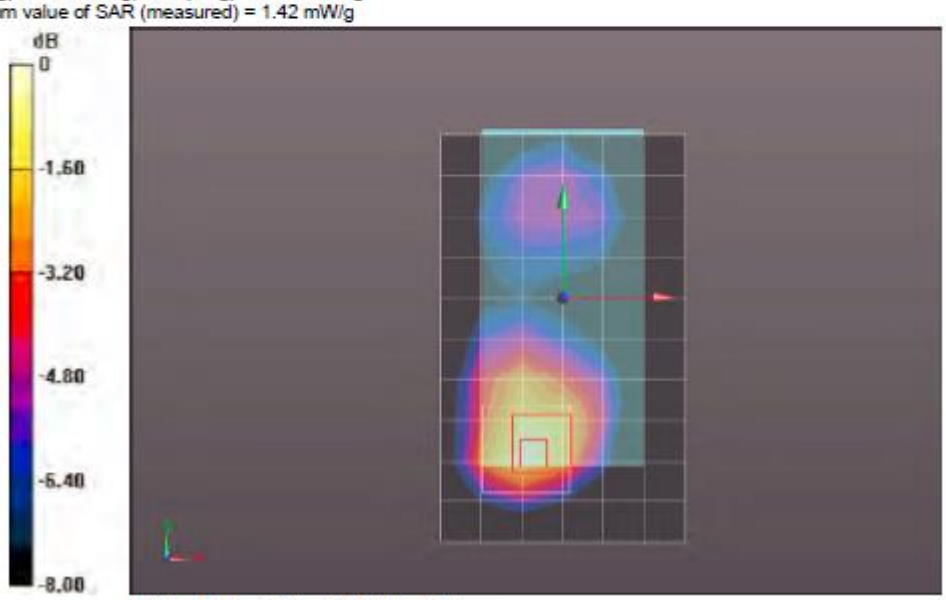
Test Laboratory: UL CCS SAR Lab B Date: 7/7/2012

GSM1900 (Primary Antenna)

Frequency: 1909.8 MHz; Duty Cycle: 1:4.00037; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1910 MHz; σ = 1.529 mho/m; ε_r = 51.599; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012;
- 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: 1117

Rear/GPRS 2 slots_ch 810/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.46 mW/g

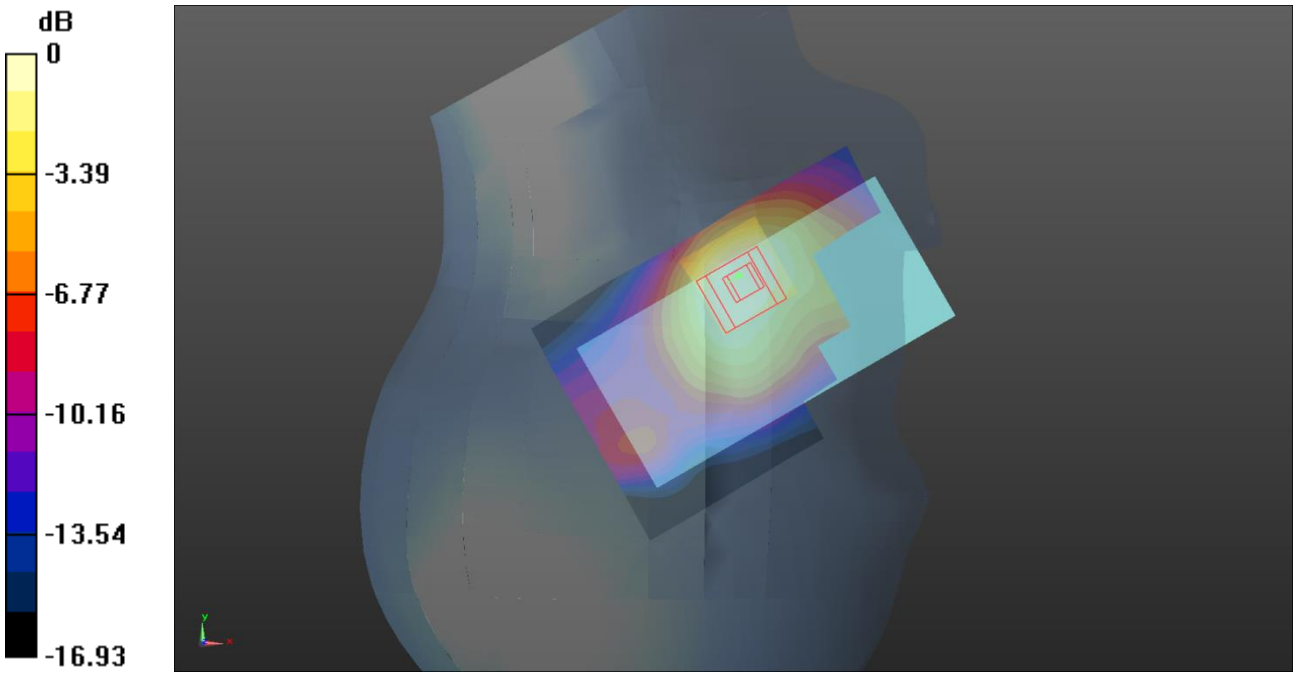
Rear/GPRS 2 slots_ch 810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.314 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.988 mW/g
SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.609 mW/g
Maximum value of SAR (measured) = 1.42 mW/g



0 dB = 1.42 mW/g = 3.05 dB mW/g

Touch Right of EUT LTE 4 1RB High CH20050 - UL VS Ltd

Date: 18/2/2015
DUT: A1428; Type: Mobile Phone; Serial: Sample 6



0 dB = 1.48 W/kg = 1.70 dBW/kg

Communication System: UID 0, LTE - Band 4 / 20MHz Channel; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: 1800 MHz HSL Medium parameters used (interpolated): f = 1720 MHz; σ = 1.33 S/m; ε_r = 39.601; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ES3DV3 - SN3335; ConvF(5.21, 5.21, 5.21); Calibrated: 29/8/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; Calibrated: 4/11/2014
- Phantom: SAM B (Site 58); Type: Twin Phantom; Serial: TP:1020
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Right- Low/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.54 W/kg
Configuration/Touch Right- Low/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.38 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.01 W/kg
SAR(1 g) = 1.39 W/kg; SAR(10 g) = 0.896 W/kg
Maximum value of SAR (measured) = 1.48 W/kg

Touch Right of EUT LTE 4 1RB High CH20050 - Extract from Original Report

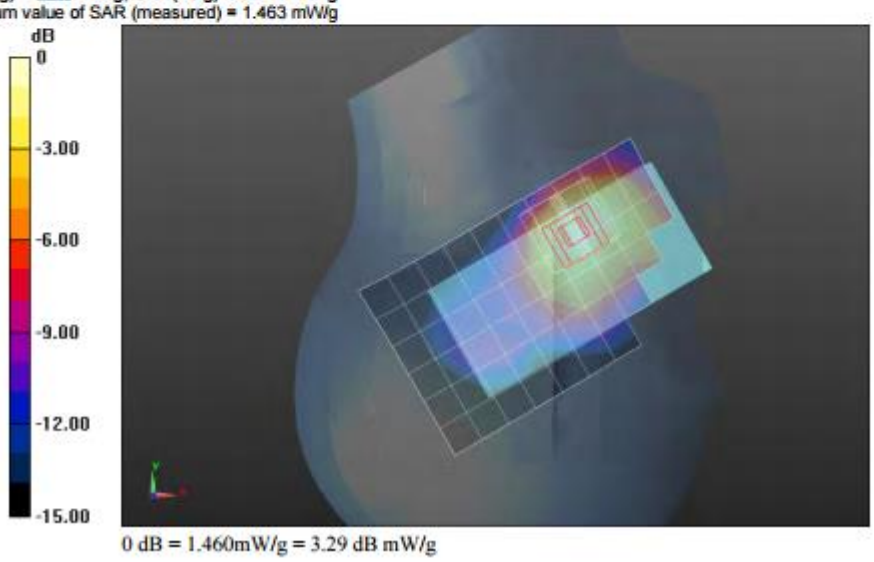
Test Laboratory: UL CCS SAR Lab A Date: 9/1/2012

LTE Band 4 (Primary Antenna)

Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.317 mho/m; ε_r = 39.373; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.79, 7.79, 7.79); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

RHS/Touch_QPSK_RB# 1, 99_Ch 20050/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.389 mW/g

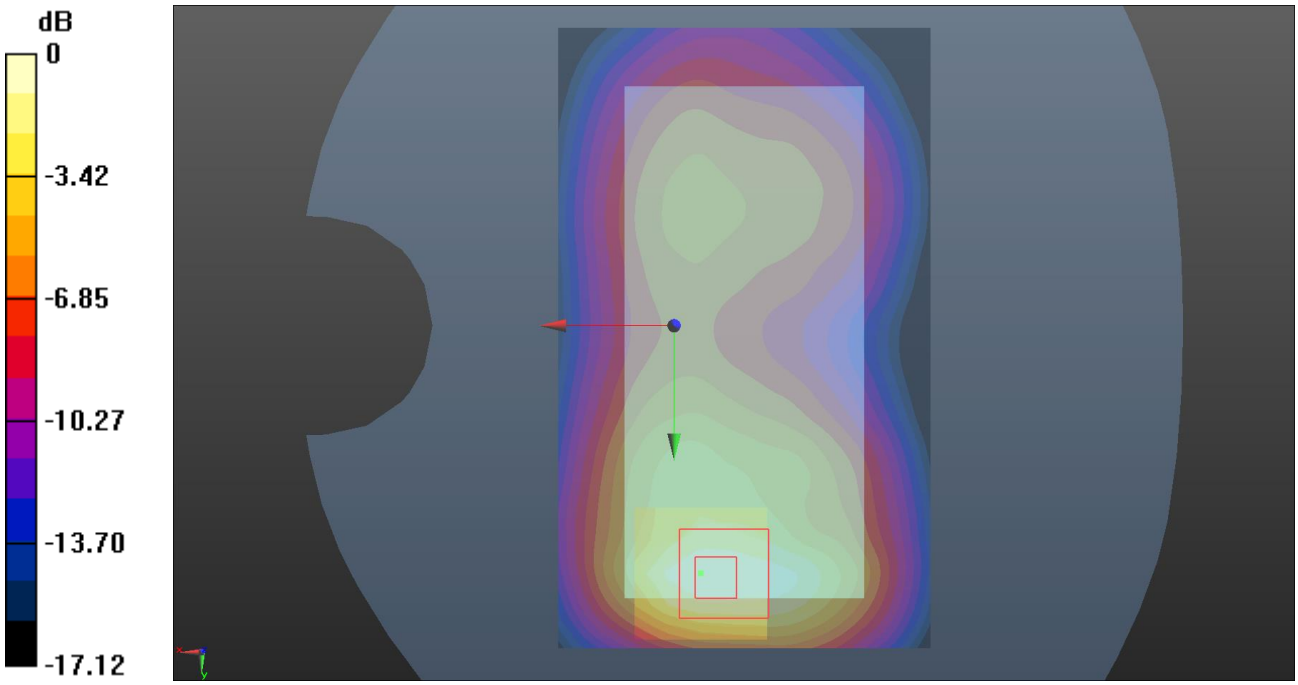
RHS/Touch_QPSK_RB# 1, 99_Ch 20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.834 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.8500
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.777 mW/g
Maximum value of SAR (measured) = 1.463 mW/g



0 dB = 1.460mW/g = 3.29 dB mW/g

Back of EUT LTE 4 1RB Mid CH20175 - UL VS Ltd

Date: 18/2/2015
DUT: A1428



0 dB = 1.46 W/kg = 1.64 dBW/kg

Communication System: UID 0, LTE FDD Bands - 20MHz Channel BW ; Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: 1800 MHz HSL Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.516 S/m; ε_r = 51.831; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ES3DV3 - SN3335; ConvF(4.91, 4.91, 4.91); Calibrated: 29/8/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; Calibrated: 4/11/2014
- Phantom: SAM A (Site 58); Type: QD000P40Ca; Serial: TP:1193
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Back of the EUT Facing the Phantom - Middle/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.47 W/kg
Configuration/Back of the EUT Facing the Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.40 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 2.28 W/kg
SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.738 W/kg
Maximum value of SAR (measured) = 1.46 W/kg

Back of EUT LTE 4 1RB Mid CH20175 - Extract from Original Report

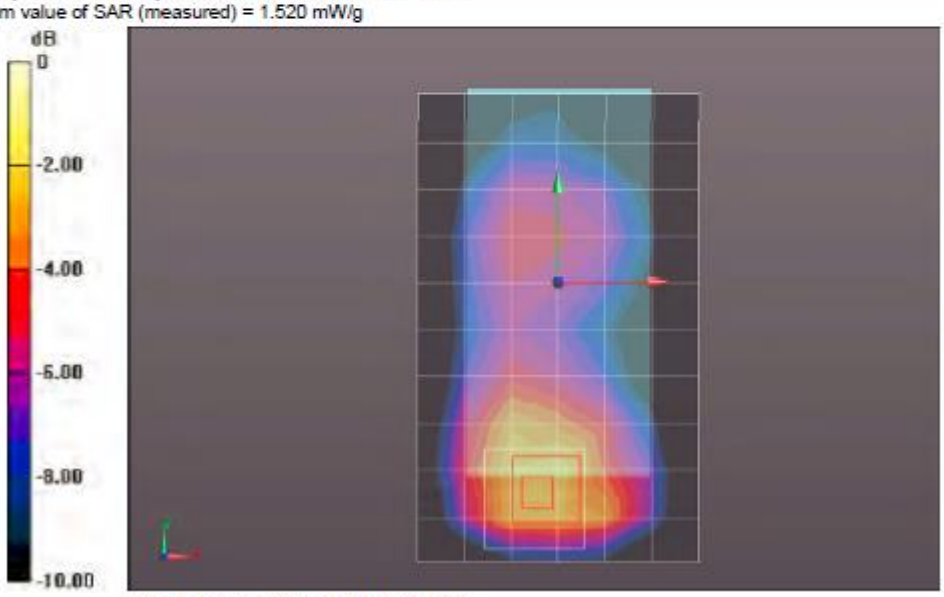
Test Laboratory: UL CCS SAR Lab C Date: 7/19/2012

LTE Band 4 (Primary Antenna)

Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.439 mho/m; ε_r = 52.445; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Probe: EX3DV4 - SN3751; ConvF(7.15, 7.15, 7.15); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1121

Rear/QPSK_RB# 1, 49_Ch 20175/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.115 mW/g

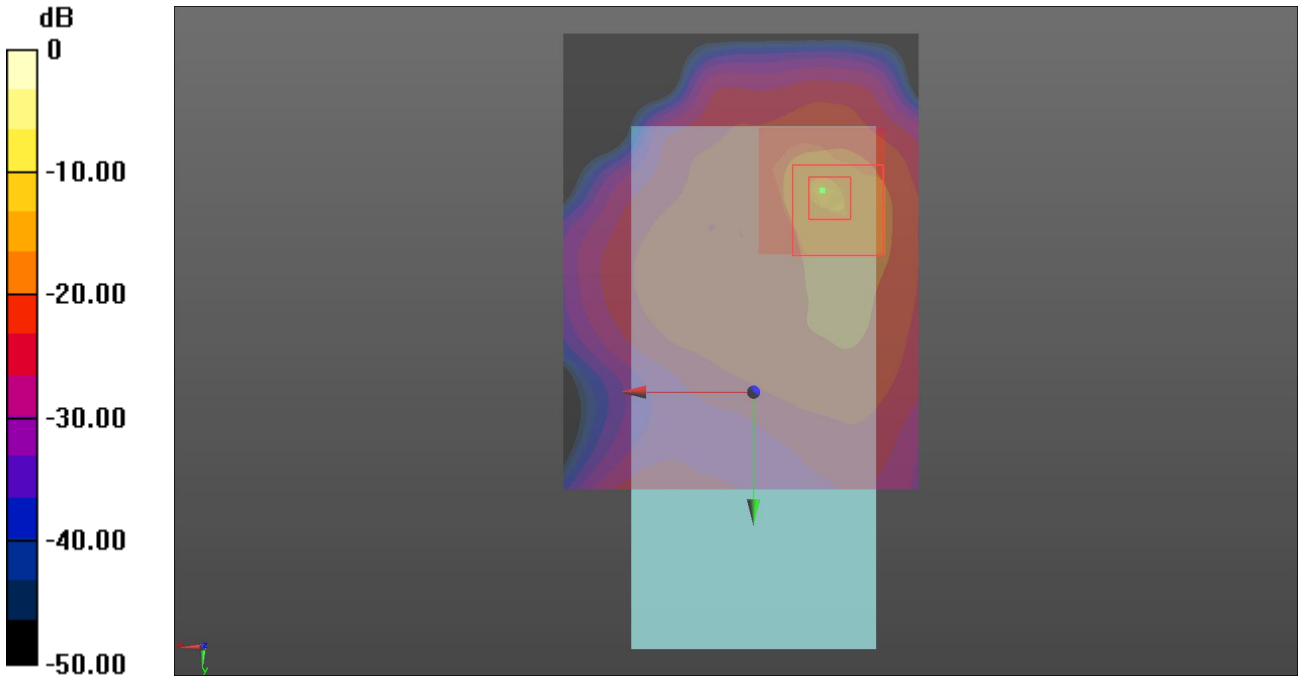
Rear/QPSK_RB# 1, 49_Ch 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.221 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.0350
SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.674 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.520 mW/g



0 dB = 1.520mW/g = 3.64 dB mW/g

Back of EUT Wi-Fi 2.4 GHz CH6 - UL VS Ltd

Date: 29/10/2014
DUT: A1428



0 dB = 0.169 W/kg = -7.72 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: 2450 MHz MSL Medium parameters used (interpolated): f = 2437 MHz; σ = 1.964 S/m; ε_r = 53.019; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ES3DV3 - SN3335; ConvF(4.28, 4.28, 4.28); Calibrated: 29/8/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 15/4/2014
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Back (Sample A10202 Black) 2 2/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.175 W/kg
Configuration/Back (Sample A10202 Black) 2 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.077 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.363 W/kg
SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.169 W/kg

Back of EUT Wi-Fi 2.4 GHz CH6 - Extract from Original Report

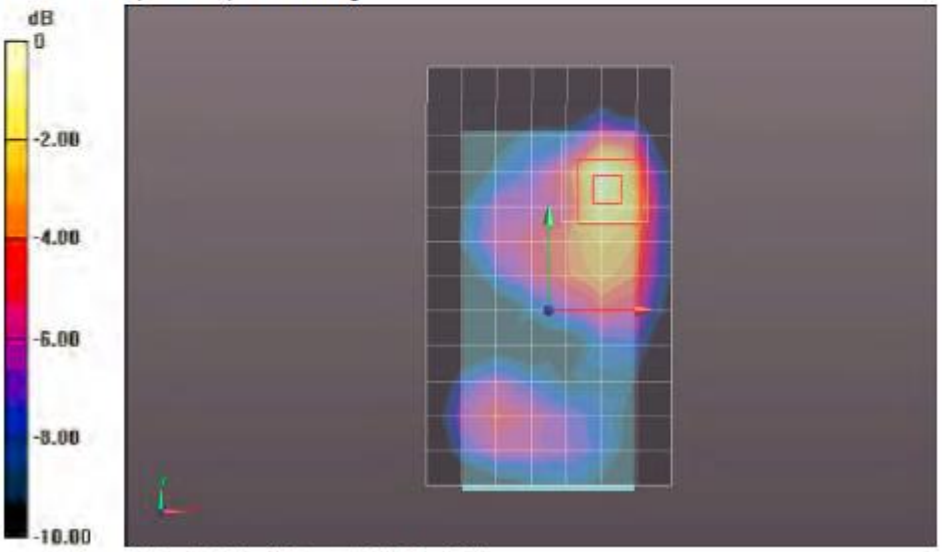
Test Laboratory: UL CCS SAR Lab A Date: 7/6/2012

WiFi 2.4GHz

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.91 mho/m; ε_r = 51.374; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(6.65, 6.65, 6.65); Calibrated: 2/16/2012;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

Rear/802.11b_ch 6 w/Headset/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.262 mW/g

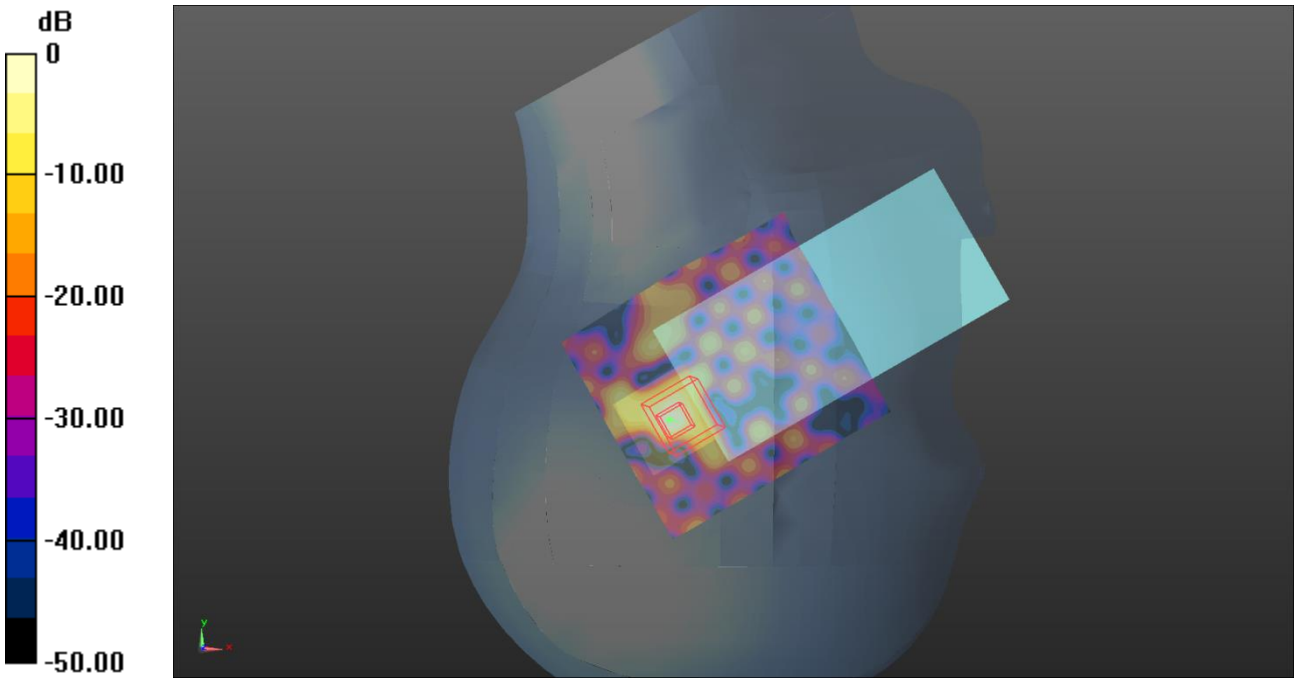
Rear/802.11b_ch 6 w/Headset/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.824 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.451 mW/g
SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.094 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.280 mW/g



0 dB = 0.280 mW/g = -11.06 dB mW/g

Touch Right of EUT Wi-Fi 5.3 GHz CH52 - UL VS Ltd

Date: 17/10/2014
DUT: A1428



0 dB = 0.645 W/kg = -1.90 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5260 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz HSL Medium parameters used (interpolated): f = 5260 MHz; σ = 4.756 S/m; ε_r = 35.944; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(5.08, 5.08, 5.08); Calibrated: 7/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; Calibrated: 18/11/2013
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Right (Sample A10202 Black)/Area Scan (91x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.08 W/kg
Configuration/Touch Right (Sample A10202 Black)/Zoom Scan (7x7x12) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.33 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.187 W/kg
Maximum value of SAR (measured) = 0.645 W/kg

Touch Right of EUT Wi-Fi 5.3 GHz CH52 - Extract from Original Report

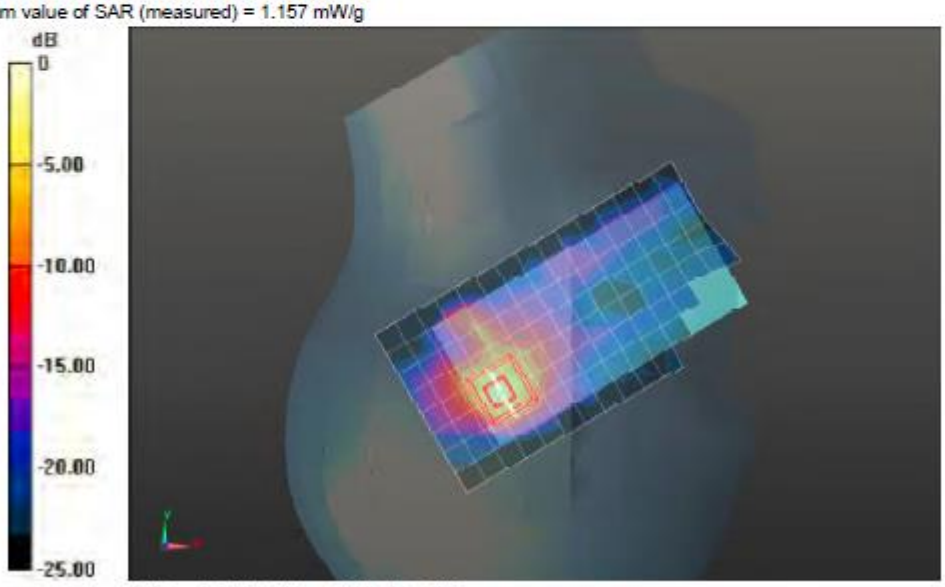
Test Laboratory: UL CCS SAR Lab A Date: 7/6/2012

WiFi 5.3GHz

Frequency: 5260 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5260 MHz; σ = 4.661 mho/m; ε_r = 34.543; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(4.62, 4.62, 4.62); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (B); Type: QD000P40CD; Serial: 1628

RHS/Touch_802.11a_ch 52/Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.729 mW/g

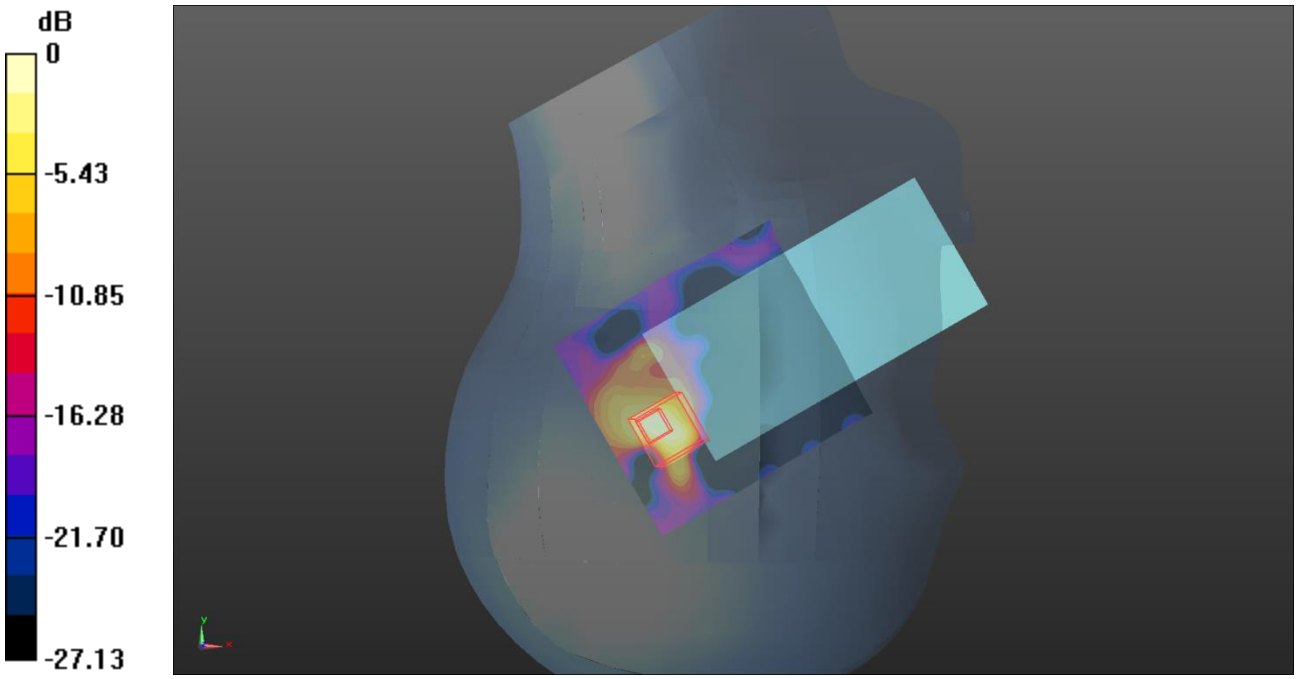
RHS/Touch_802.11a_ch 52/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0 dB
Peak SAR (extrapolated) = 2.2610
SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.143 mW/g
Maximum value of SAR (measured) = 1.157 mW/g



0 dB = 1.160mW/g = 1.29 dB mW/g

Touch Right of EUT Wi-Fi 5.5 GHz CH136 - UL VS Ltd

Date: 29/10/2014
DUT: A1428



0 dB = 0.371 W/kg = -4.31 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5680 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz HSL Medium parameters used (interpolated): f = 5680 MHz; σ = 5.119 S/m; ε_r = 34.636; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(4.85, 4.85, 4.85); Calibrated: 7/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/9/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/DNU Touch Right (Sample A10468 White) 2/Area Scan (91x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.401 W/kg
Configuration/DNU Touch Right (Sample A10468 White) 2/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 8.114 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 6.22 W/kg
SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.118 W/kg
Maximum value of SAR (measured) = 0.371 W/kg

Touch Right of EUT Wi-Fi 5.5 GHz CH136 - Extract from Original Report

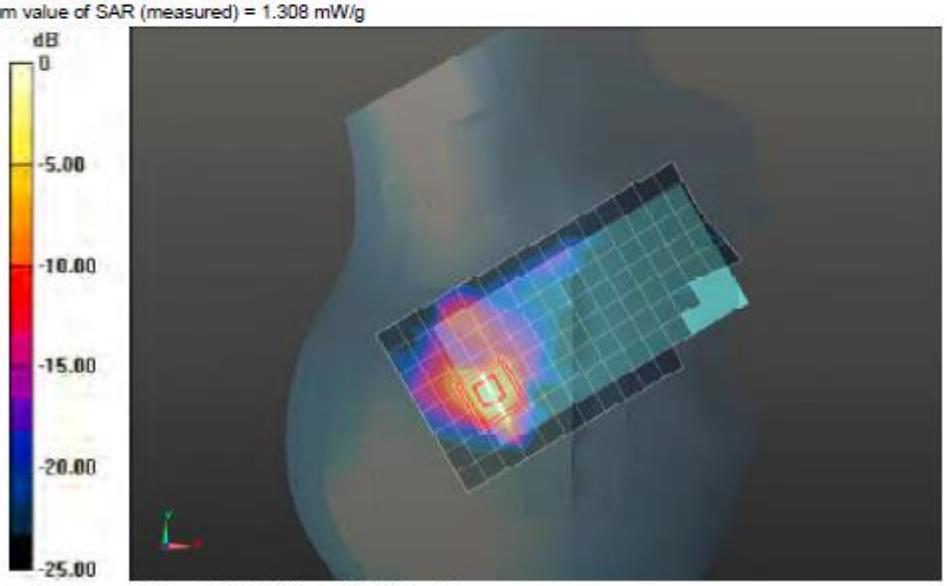
Test Laboratory: UL CCS SAR Lab A Date: 7/3/2012

WiFi 5.5GHz

Frequency: 5680 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5680 MHz; σ = 5.27 mho/m; ε_r = 35.565; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(4.25, 4.25, 4.25); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (B); Type: QD000P40CD; Serial: 1628

RHS/Touch_802.11a_ch 136/Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.029 mW/g

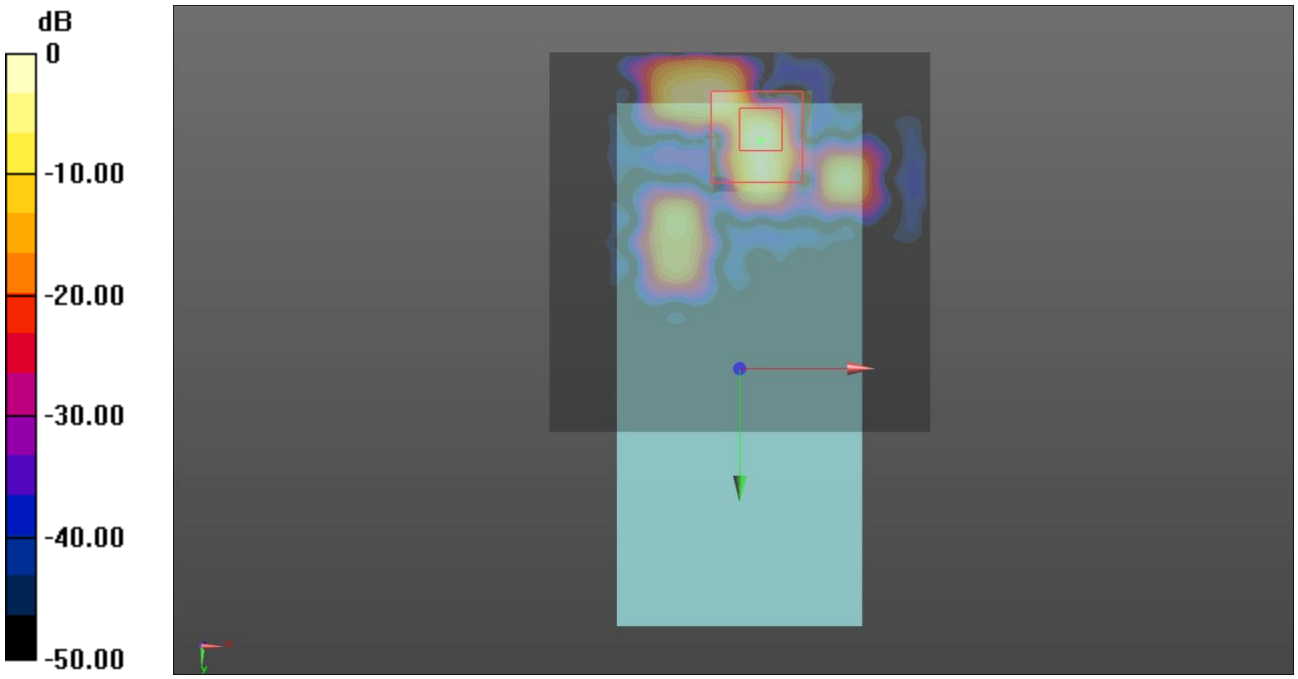
RHS/Touch_802.11a_ch 136/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 14.370 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 2.6580
SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 1.308 mW/g



0 dB = 1.310mW/g = 2.35 dB mW/g

Front of EUT Wi-Fi 5.5 GHz CH124 - UL VS Ltd

Date: 16/2/2015
DUT: A1428



0 dB = 0.0314 W/kg = -15.03 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5620 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz MSL Medium parameters used (interpolated): f = 5620 MHz; σ = 5.841 S/m; ε_r = 47.606; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3995; ConvF(4.1, 4.1, 4.1); Calibrated: 9/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 10/4/2014
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Front (Sample A10202 Black)/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0389 W/kg
Configuration/Front (Sample A10202 Black)/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.933 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.200 W/kg
SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.011 W/kg
Maximum value of SAR (measured) = 0.0314 W/kg

Front of EUT Wi-Fi 5.5 GHz CH124 - Extract from Original Report

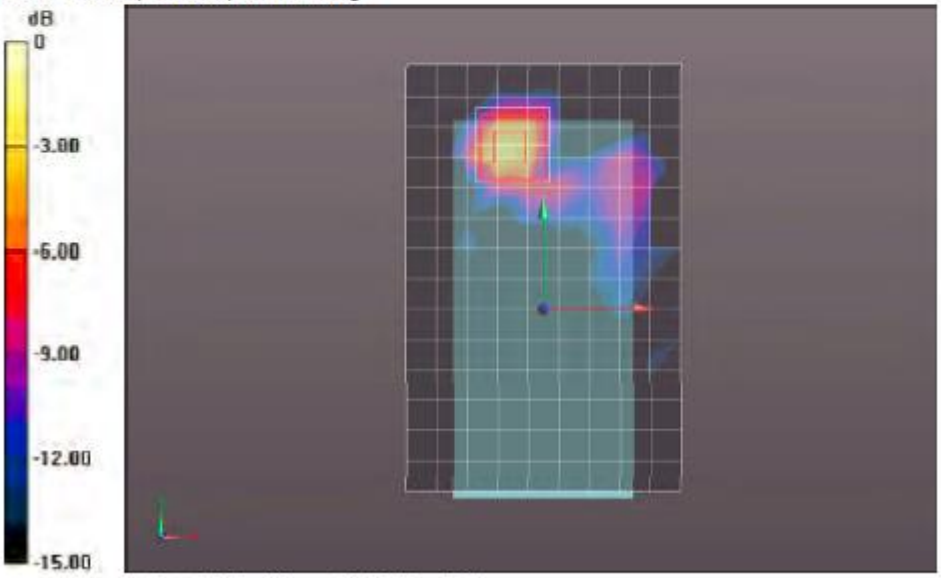
Test Laboratory: UL CCS SAR Lab A Date: 7/12/2012

WiFi 5.5GHz

Frequency: 5620 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5620 MHz; σ = 5.939 mho/m; ε_r = 46.31; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(3.26, 3.26, 3.26); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/802.11a_Ch 124/Area Scan (10x15x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.127 mW/g

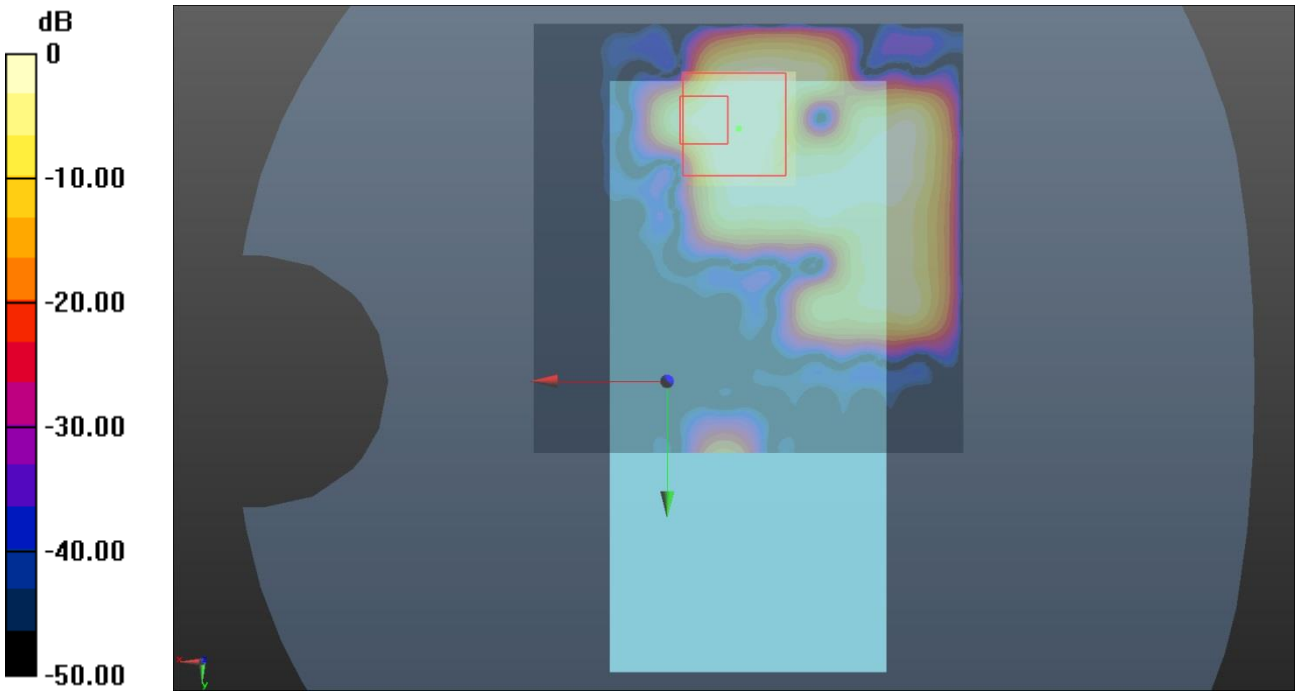
Front/802.11a_Ch 124/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.238 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.3910
SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.026 mW/g
Maximum value of SAR (measured) = 0.199 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g

Front of EUT Wi-Fi 5.8 GHz CH149 - UL VS Ltd

Date: 17/3/2015
DUT: A1428



0 dB = 0.0750 W/kg = -11.25 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5745 MHz;Duty Cycle: 1:1
Medium: 5GHz MSL Medium parameters used (interpolated): f = 5745 MHz; σ = 6.107 S/m; ε_r = 47.607; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3814; ConvF(4.06, 4.06, 4.06); Calibrated: 18/9/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 15/4/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Sample 9 Front/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.111 W/kg

Configuration/Sample 9 Front/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.403 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.895 W/kg
SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.031 W/kg
Maximum value of SAR (measured) = 0.0750 W/kg

Front of EUT Wi-Fi 5.8 GHz CH149 - Extract from Original Report

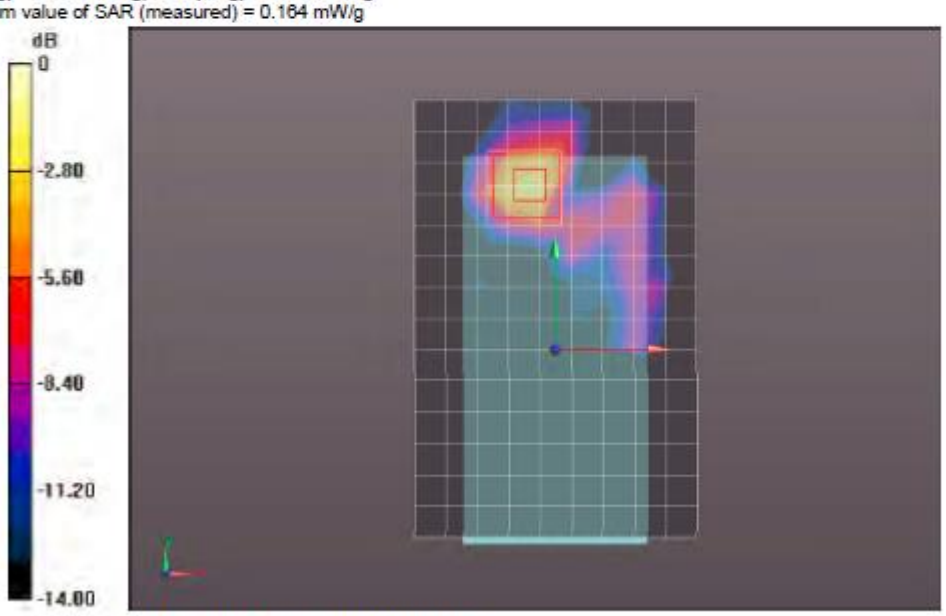
Test Laboratory: UL CCS SAR Lab A Date: 7/17/2012

WiFi 5.8GHz

Frequency: 5745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5745 MHz; σ = 6.05 mho/m; ε_r = 46.711; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(3.58, 3.58, 3.58); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/802.11a_Ch 149/Area Scan (10x15x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.105 mW/g

Front/802.11a_Ch 149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.737 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.3700
SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.021 mW/g
Maximum value of SAR (measured) = 0.164 mW/g

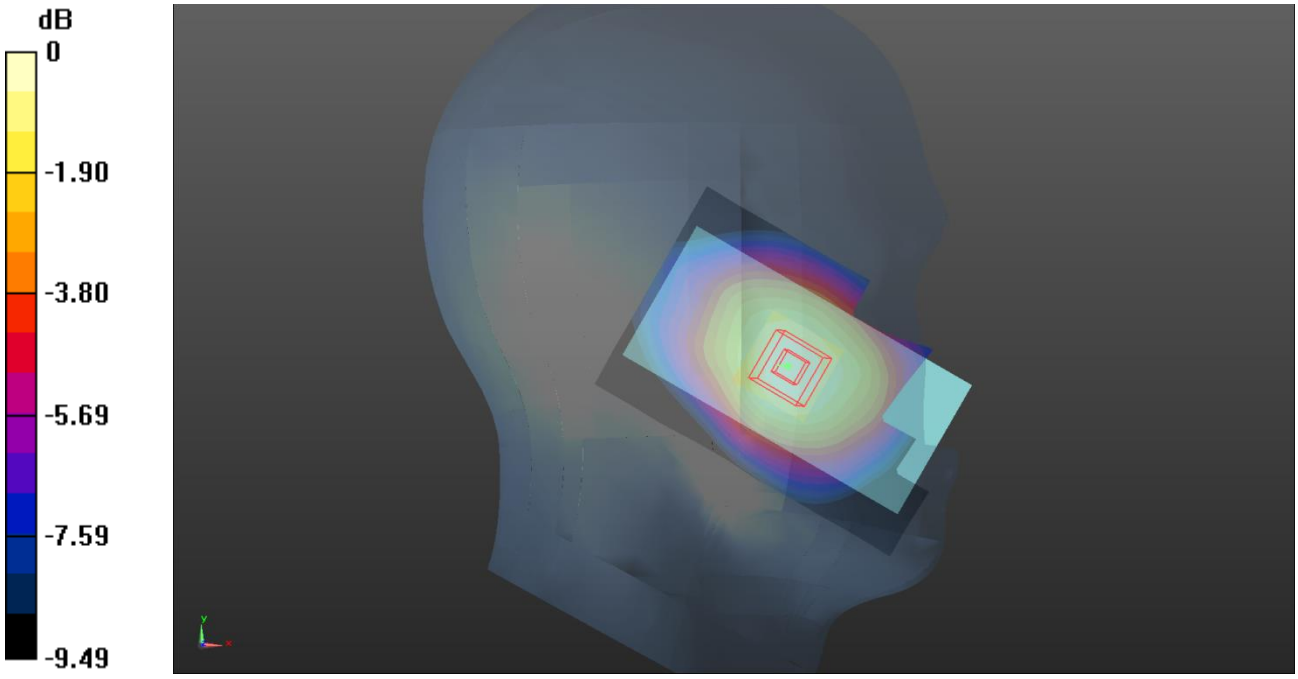


0 dB = 0.160mW/g = -15.92 dB mW/g

12.8.2. Baseline Plots – A1429

Touch Left of EUT GSM 850 CH190 - UL VS Ltd

Date: 30/1/2015
DUT: A1429



0 dB = 0.515 W/kg = -2.88 dBW/kg

Communication System: UID 0, GSM 850 MHz; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.896 S/m; ε_r = 41.541; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1529; ConvF(6.28, 6.28, 6.28); Calibrated: 22/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 16/5/2014
- Phantom: SAM 12b (Site 56); Type: SAM 4.0; Serial: TP:1192
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Left of the EUT Facing the Phantom - Middle 2 2/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.520 W/kg
Configuration/Touch Left of the EUT Facing the Phantom - Middle 2 2/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.536 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.596 W/kg
SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.366 W/kg
Maximum value of SAR (measured) = 0.515 W/kg

Touch Left of EUT GSM 850 CH190 - Extract from Original Report

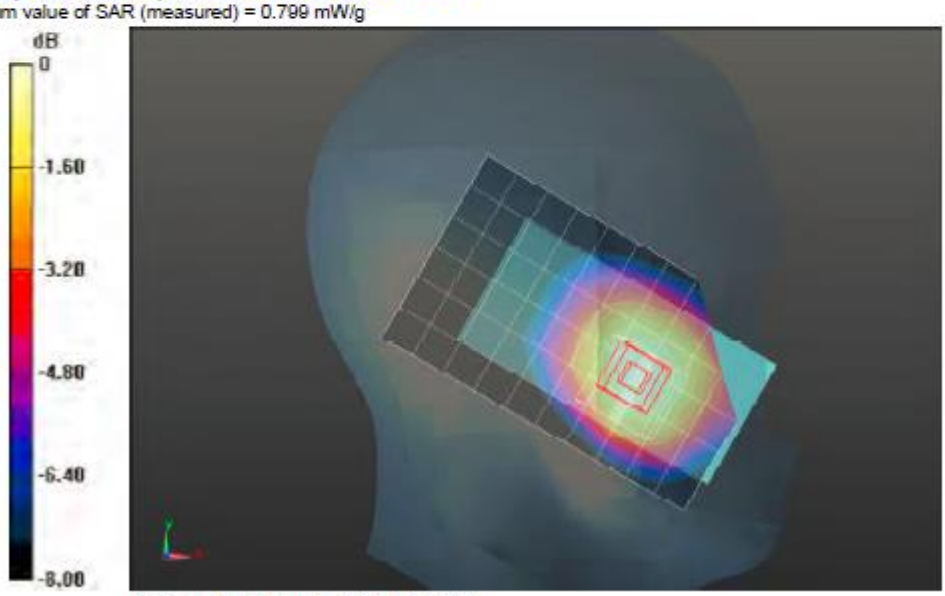
Test Laboratory: UL CCS SAR Lab B Date: 7/30/2012

GSM850 (Primary Antenna)

Frequency: 836.6 MHz; Duty Cycle: 1:8.00018; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.903 mho/m; ε_r = 43.059; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(8.61, 8.61, 8.61); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1629

LHS/Touch_Voice_ch 190/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.798 mW/g

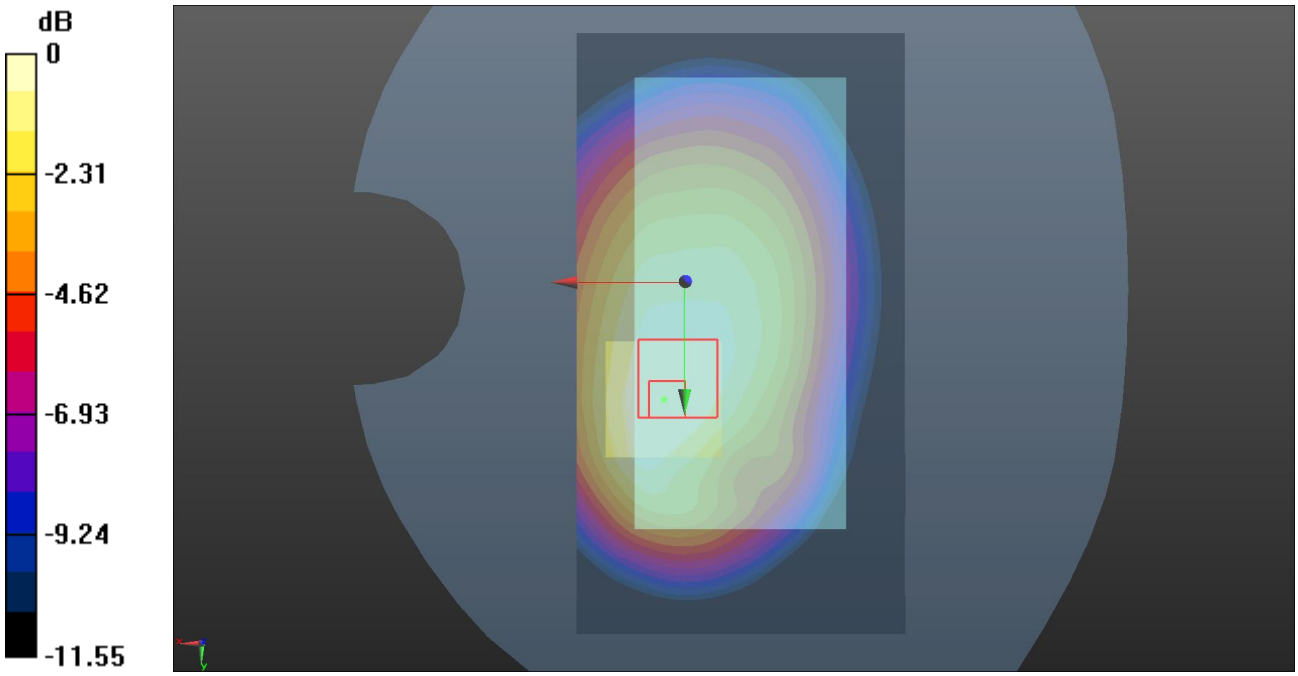
LHS/Touch_Voice_ch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.968 V/m; Power Drift = 0.0042 dB
Peak SAR (extrapolated) = 0.8830
SAR(1 g) = 0.737 mW/g; SAR(10 g) = 0.566 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.799 mW/g



0 dB = 0.800mW/g = -1.94 dB mW/g

Back of EUT GSM 850 GPRS 2Tx CH251 - UL VS Ltd

Date: 29/1/2015
DUT: A1429



0 dB = 0.854 W/kg = -0.69 dBW/kg

Communication System: UID 0, GPRS 850 MHz 2TX; Frequency: 848.8 MHz;Duty Cycle: 1:4
Medium: 750/900 MHz MSL Medium parameters used (interpolated): f = 848.8 MHz; σ = 1.008 S/m; ε_r = 53.677; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1529; ConvF(6, 6, 6); Calibrated: 22/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 16/5/2014
- Phantom: SAM 12a (Site 56); Type: SAM 4.0; Serial: TP:1020
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Back of the EUT Facing the Phantom - High 2/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.859 W/kg
Configuration/Back of the EUT Facing the Phantom - High 2/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.32 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.591 W/kg
Maximum value of SAR (measured) = 0.854 W/kg

Back of EUT GSM 850 GPRS 2Tx CH251 - Extract from Original Report

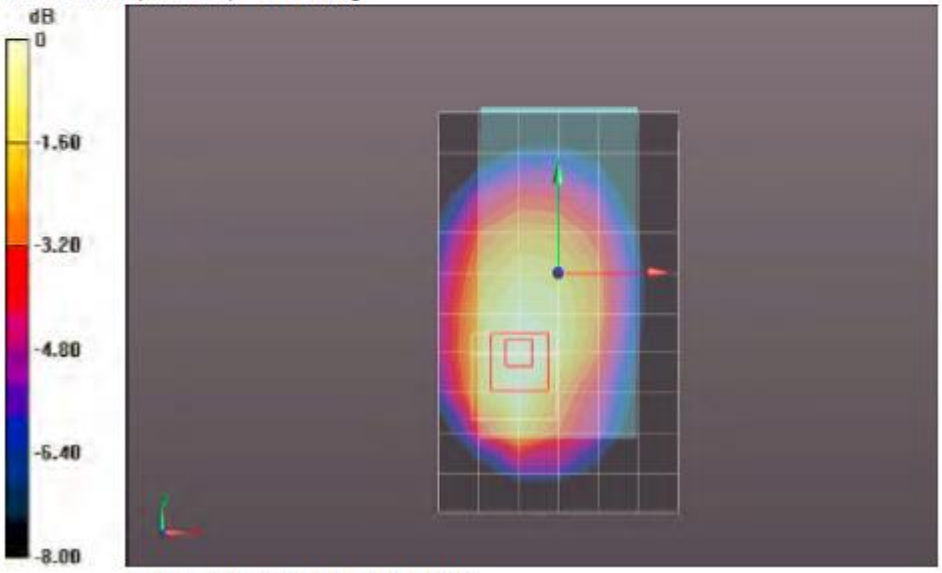
Test Laboratory: UL CCS SAR Lab B Date: 7/31/2012

GSM850 (Primary Antenna)

Frequency: 848.8 MHz; Duty Cycle: 1:4.00037; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.987 mho/m; ε_r = 52.573; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(8.73, 8.73, 8.73); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118

Rear/GPRS 2 Slots_ch 251/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.206 mW/g

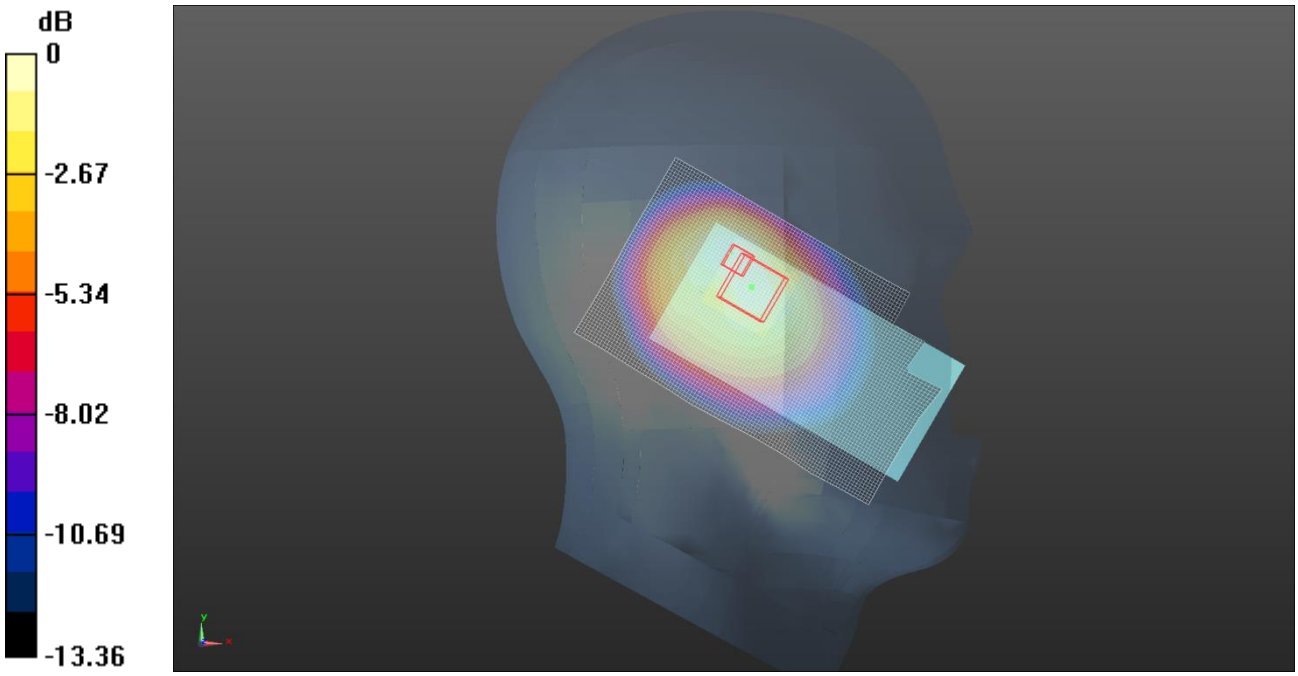
Rear/GPRS 2 Slots_ch 251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.385 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.3850
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.738 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.194 mW/g



0 dB = 1.190mW/g = 1.51 dB mW/g

Touch Left of EUT CDMA BC10 CH684 - UL VS Ltd

Date: 18/11/2014
DUT: A1429



0 dB = 0.618 W/kg = -2.09 dBW/kg

Communication System: UID 0, CDMA2000 (0); Frequency: 823.1 MHz;Duty Cycle: 1:1
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 823.1 MHz; σ = 0.879 S/m; ε_r = 41.484; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ES3DV3 - SN3335; ConvF(6.46, 6.46, 6.46); Calibrated: 29/8/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/5/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1836
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Left- High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.586 W/kg
Configuration/Touch Left- High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.23 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.956 W/kg
SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.384 W/kg
Maximum value of SAR (measured) = 0.618 W/kg

Touch Left of EUT CDMA BC10 CH684 - Extract from Original Report

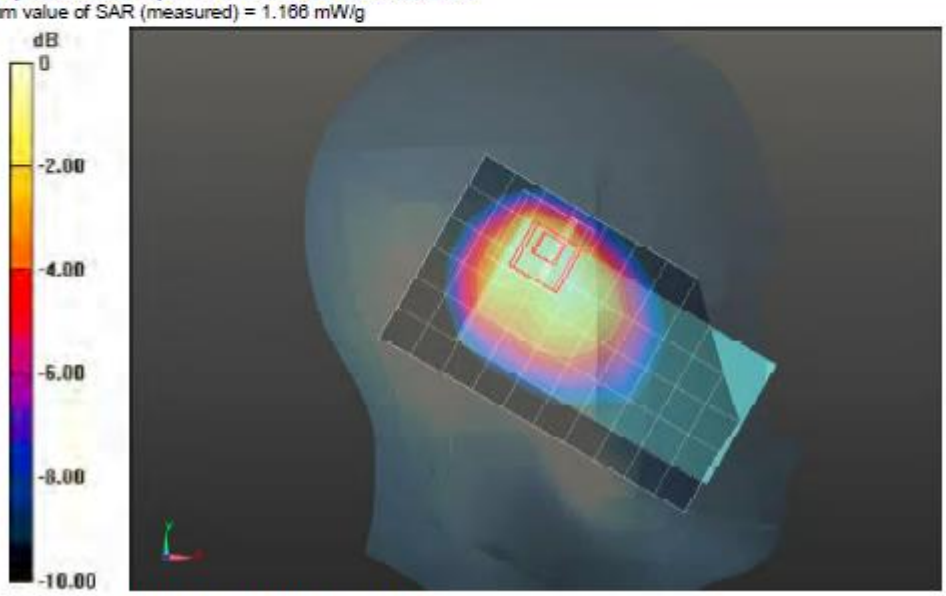
Test Laboratory: UL CCS SAR Lab C Date: 7/13/2012

CDMA BC10 (Secondary Antenna)

Frequency: 823.1 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 823.1 MHz; σ = 0.883 mho/m; ε_r = 41.86; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Probe: EX3DV4 - SN3751; ConvF(8.35, 8.35, 8.35); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

LHS/Touch_RC3 SO55_ch 684/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.046 mW/g

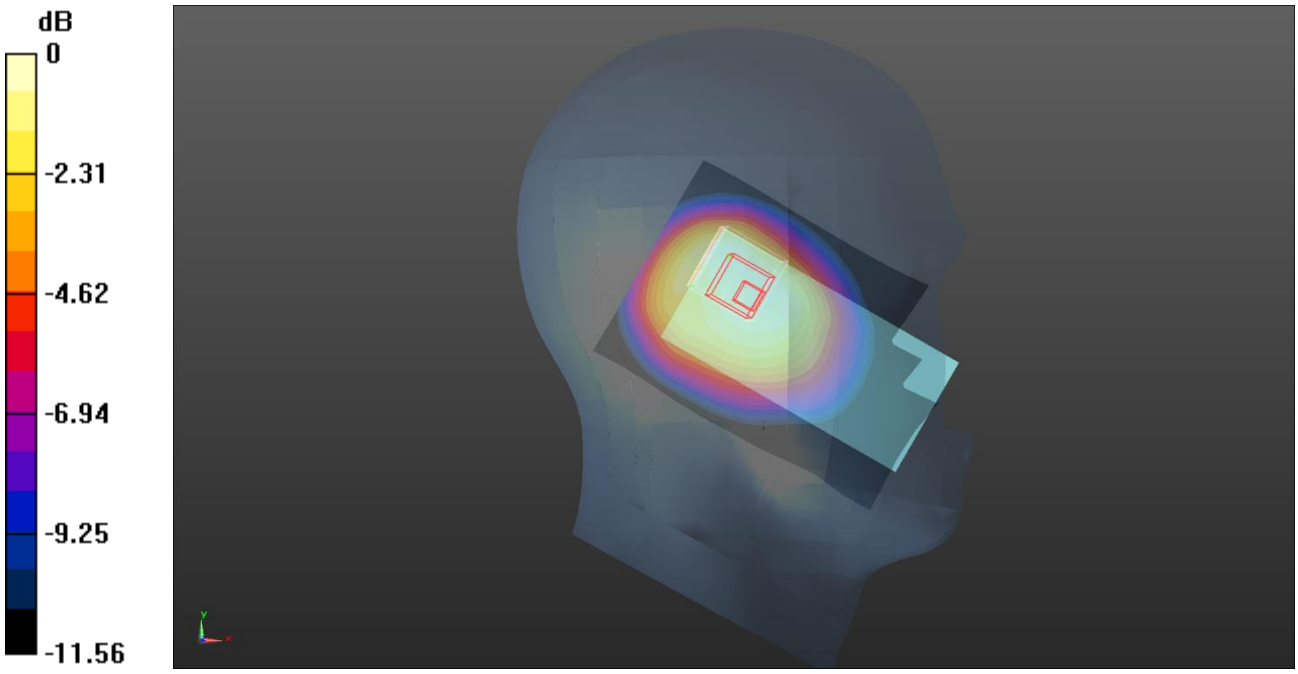
LHS/Touch_RC3 SO55_ch 684/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.649 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.6440
SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.646 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.166 mW/g



0 dB = 1.170mW/g = 1.36 dB mW/g

Touch Left of EUT LTE 13 CH23230 - UL VS Ltd

Date: 2/2/2015
DUT: A1429



0 dB = 0.385 W/kg = -4.15 dBW/kg

Communication System: UID 0, LTE - Band 13 / 10MHz Channel; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 782 MHz; σ = 0.855 S/m; ε_r = 41.971; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1529; ConvF(6.6, 6.6, 6.6); Calibrated: 22/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 16/5/2014
- Phantom: SAM 12b (Site 56); Type: SAM 4.0; Serial: TP:1192
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Left of the EUT Facing the Phantom - High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.394 W/kg
Configuration/Touch Left of the EUT Facing the Phantom - High/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.30 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.696 W/kg
SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.216 W/kg
Maximum value of SAR (measured) = 0.385 W/kg

Touch Left of EUT LTE 13 CH23230 - Extract from Original Report

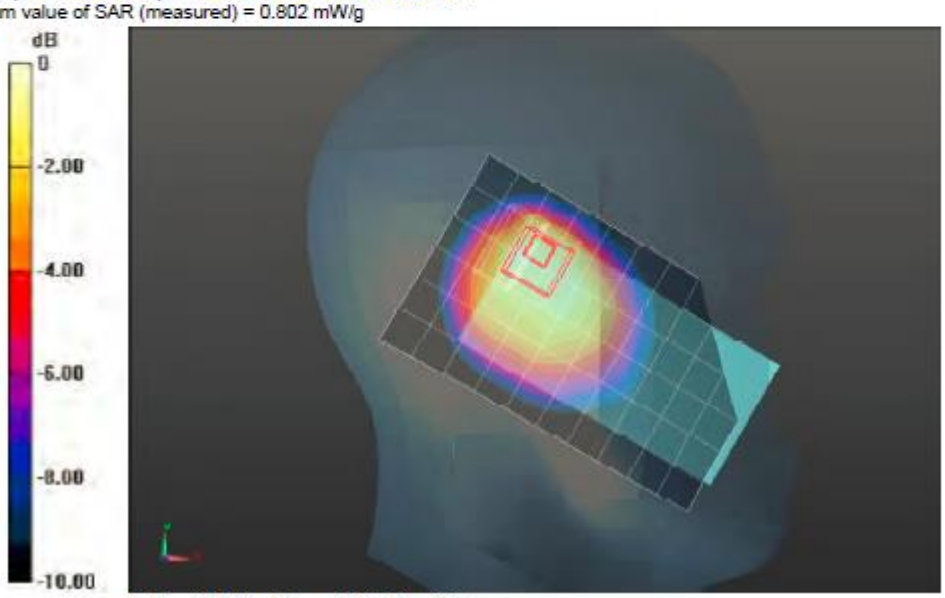
Test Laboratory: UL CCS SAR Lab A Date: 9/5/2012

LTE Band 13 (Secondary Antenna)

Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.893 mho/m; ε_r = 40.156; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (B); Type: QD000P40CD; Serial: 1628

LHS/Touch_QPSK_RB# 1, 24_Ch 23230/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.720 mW/g

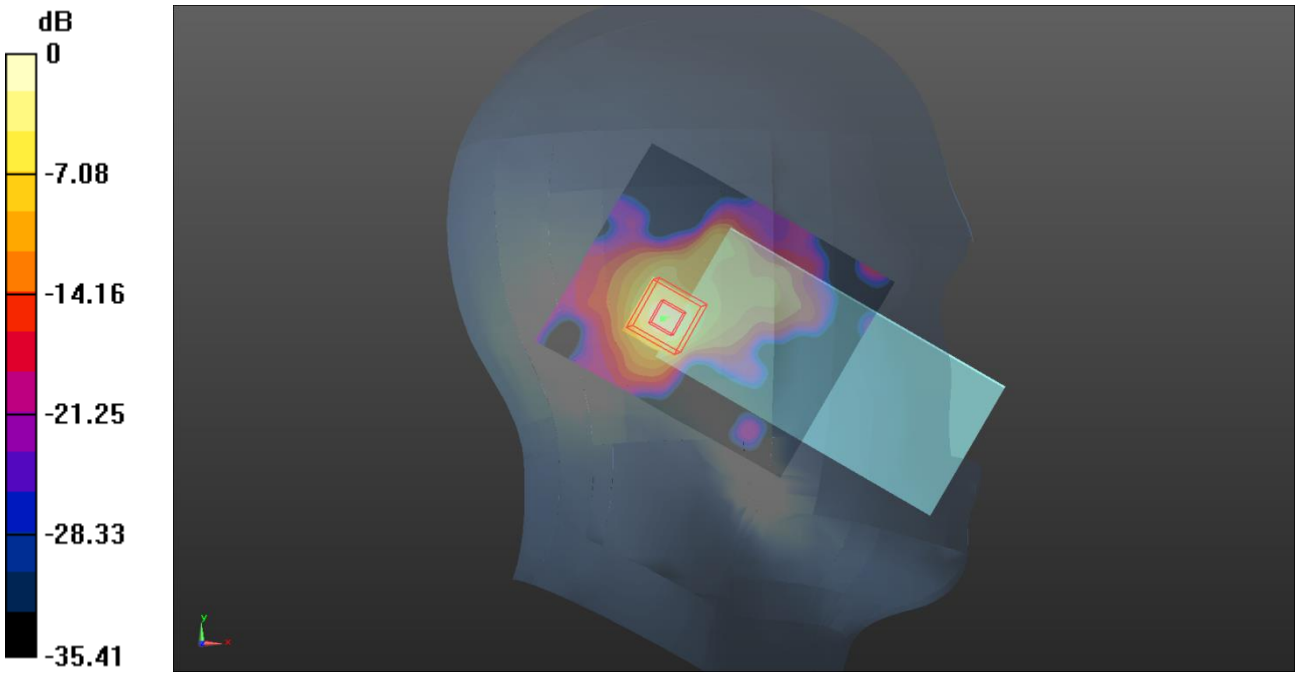
LHS/Touch_QPSK_RB# 1, 24_Ch 23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.812 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.1640
SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.384 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.802 mW/g



0 dB = 0.800mW/g = -1.94 dB mW/g

Touch Left of EUT Wi-Fi 5.2 GHz CH48 - UL VS Ltd

Date: 27/11/2014
DUT: A1429



0 dB = 0.820 W/kg = -0.86 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5240 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz MSL Medium parameters used (interpolated): f = 5240 MHz; σ = 4.702 S/m; ε_r = 36.525; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(5.35, 5.35, 5.35); Calibrated: 7/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/9/2014
- Phantom: SAM (20deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Left/Area Scan (111x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.832 W/kg
Configuration/Touch Left/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 13.11 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.21 W/kg
SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.205 W/kg
Maximum value of SAR (measured) = 0.820 W/kg

Touch Left of EUT Wi-Fi 5.2 GHz CH48 - Extract from Original Report

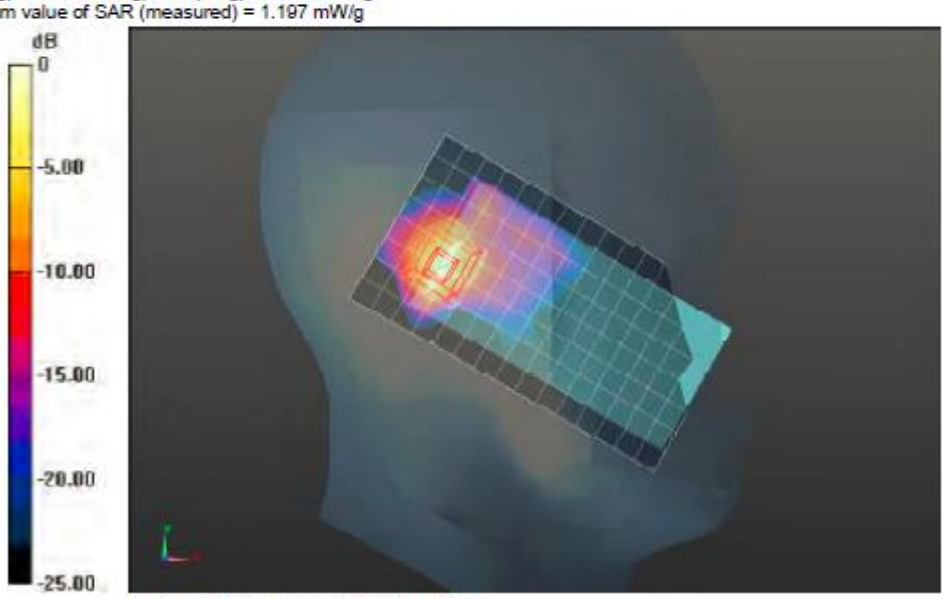
Test Laboratory: UL CCS SAR Lab A Date: 7/24/2012

WiFi 5.2GHz

Frequency: 5240 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5240 MHz; σ = 4.788 mho/m; ε_r = 36.021; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(4.88, 4.88, 4.88); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (B); Type: QD000P40CD; Serial: 1628

LHS/Touch_802.11a_ch 48/Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.879 mW/g

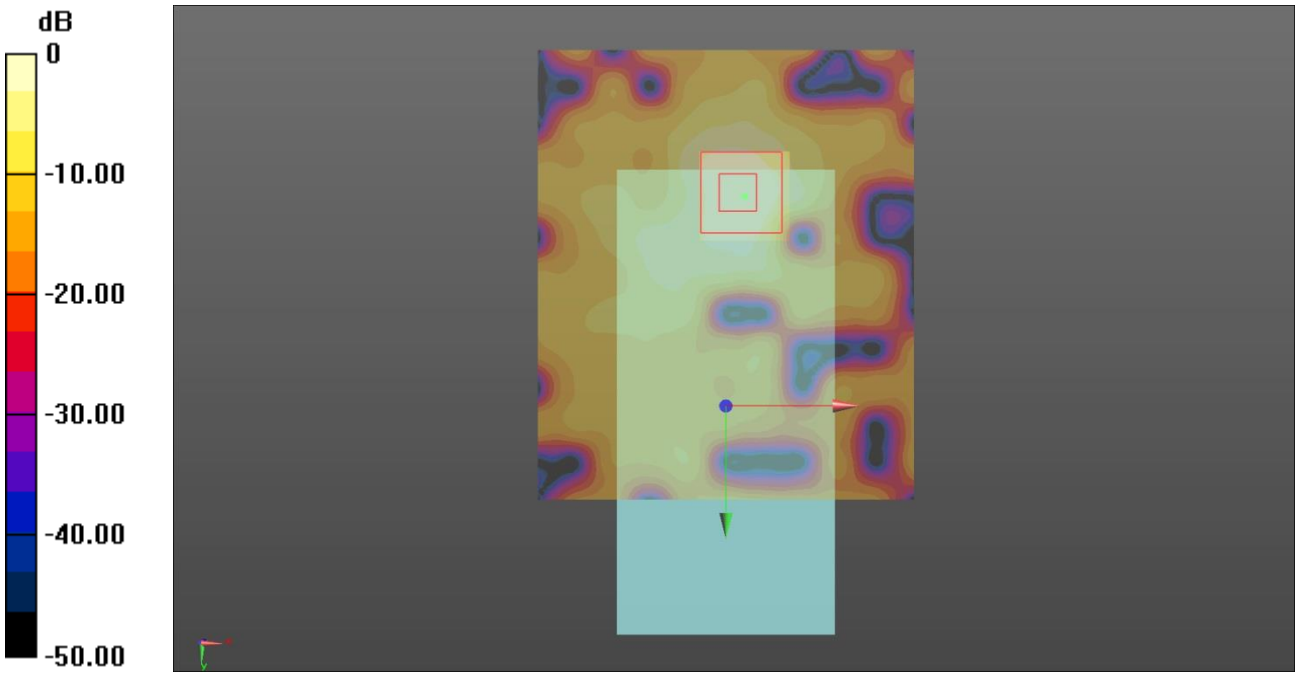
LHS/Touch_802.11a_ch 48/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 13.921 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.4050
SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.165 mW/g
Maximum value of SAR (measured) = 1.197 mW/g



0 dB = 1.200mW/g = 1.58 dB mW/g

Front of EUT Wi-Fi 5.2 GHz CH48 - UL VS Ltd

Date: 28/11/2014
DUT: A1429



0 dB = 0.122 W/kg = -9.14 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5240 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz MSL Medium parameters used (interpolated): f = 5240 MHz; σ = 5.15 S/m; ε_r = 49.256; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(4.95, 4.95, 4.95); Calibrated: 7/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/9/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Front/Area Scan (101x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.138 W/kg
Configuration/Front/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.051 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.336 W/kg
SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.037 W/kg
Maximum value of SAR (measured) = 0.122 W/kg

Front of EUT Wi-Fi 5.2 GHz CH48 - Extract from Original Report

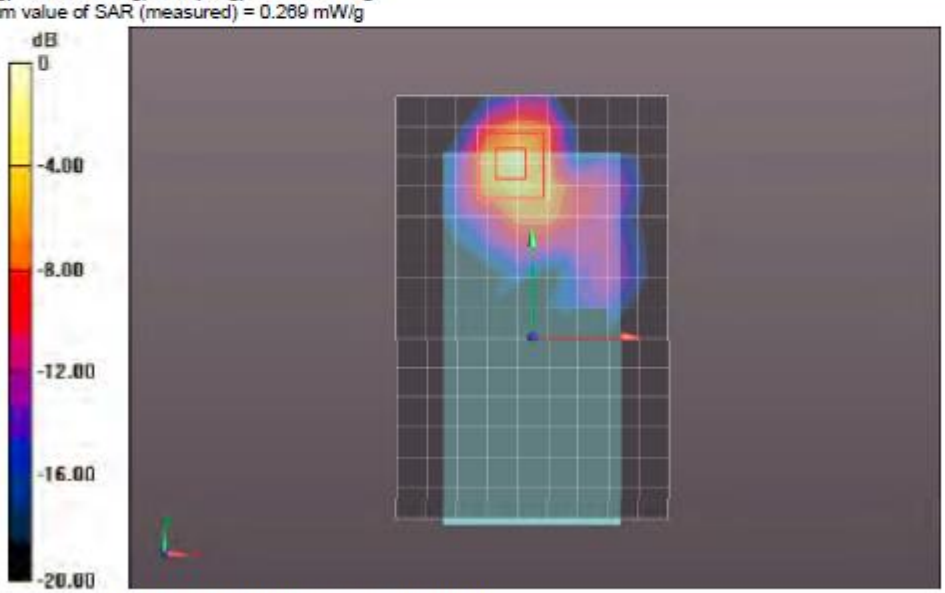
Test Laboratory: UL CCS SAR Lab A Date: 7/25/2012

WiFi 5.2GHz

Frequency: 5240 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5240 MHz; σ = 5.254 mho/m; ε_r = 47.689; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(4.17, 4.17, 4.17); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/802.11a_Ch 48/Area Scan (10x15x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.215 mW/g

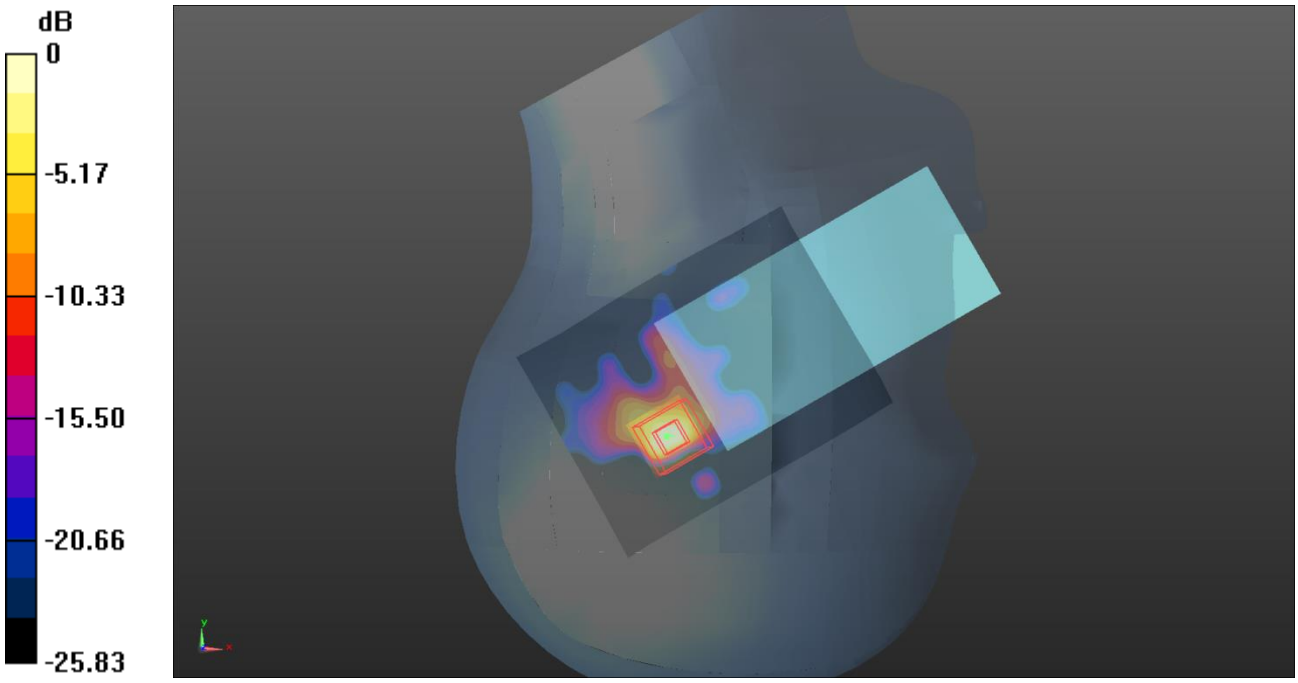
Front/802.11a_Ch 48/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.639 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.5570
SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.041 mW/g
Maximum value of SAR (measured) = 0.269 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

Touch Right of EUT Wi-Fi 5.3 GHz CH52 - UL VS Ltd

Date: 2/12/2014
DUT: A1429



0 dB = 0.876 W/kg = -0.57 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5260 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz MSL Medium parameters used (interpolated): f = 5260 MHz; σ = 4.759 S/m; ε_r = 36.067; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(5.08, 5.08, 5.08); Calibrated: 7/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/9/2014
- Phantom: SAM (20deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Touch Right/Area Scan (121x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.25 W/kg

Configuration/Touch Right/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 13.93 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.184 W/kg
Maximum value of SAR (measured) = 0.876 W/kg

Touch Right of EUT Wi-Fi 5.3 GHz CH52 - Extract from Original Report

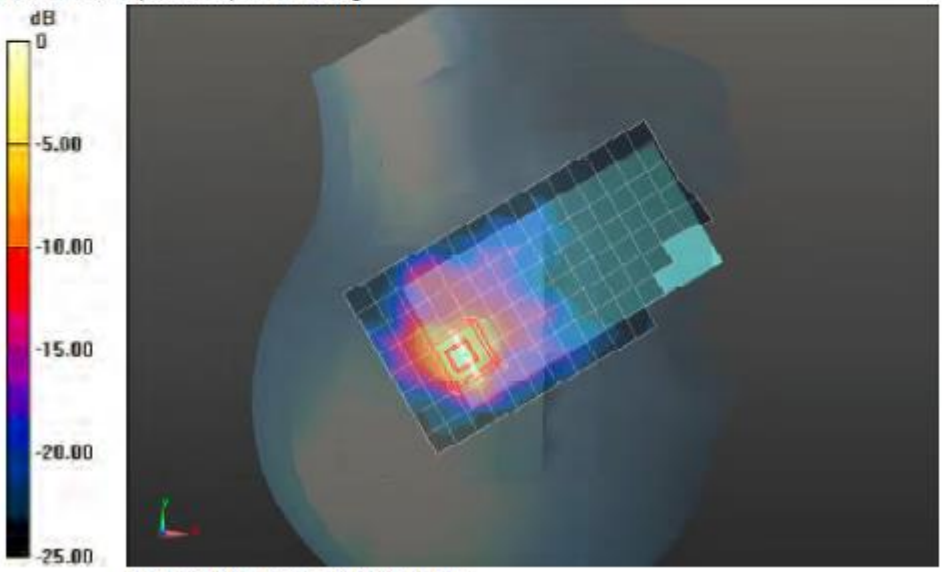
Test Laboratory: UL CCS SAR Lab A Date: 7/23/2012

WiFi 5.3GHz

Frequency: 5260 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5260 MHz; σ = 4.749 mho/m; ε_r = 34.553; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(4.62, 4.62, 4.62); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (B); Type: QD000P40CD; Serial: 1628

RHS/Touch_802.11a_ch 52/Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.015 mW/g

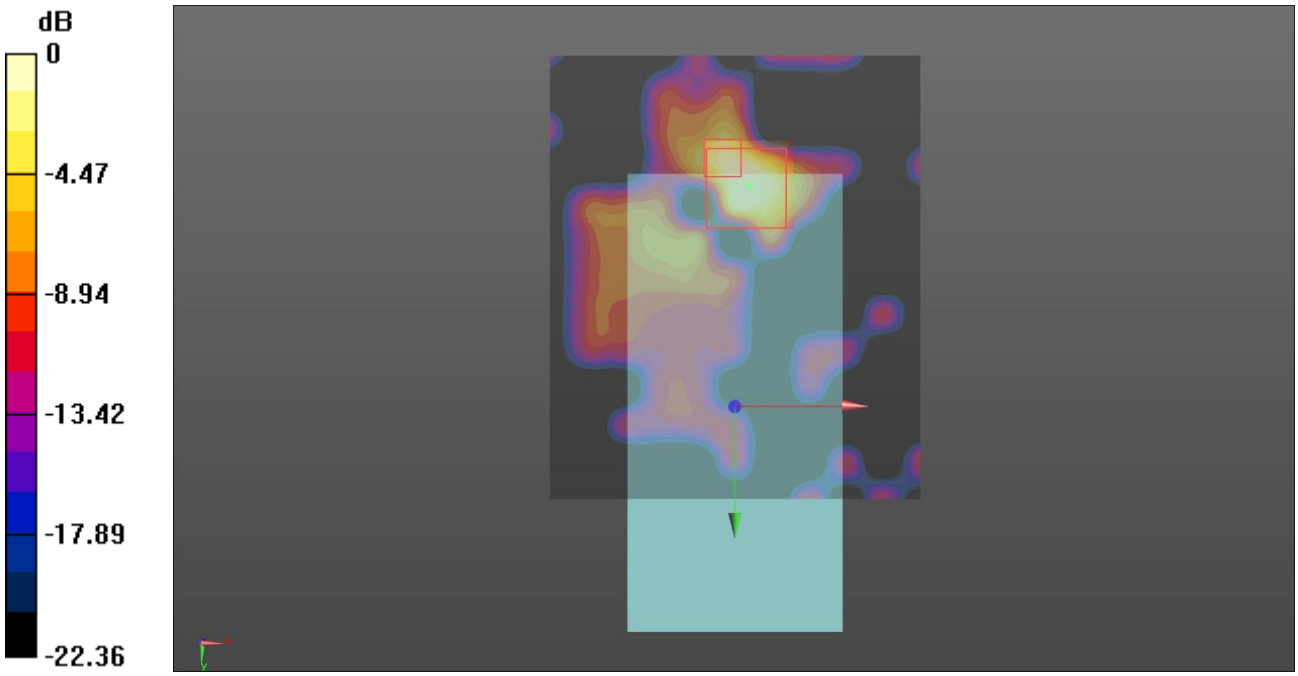
RHS/Touch_802.11a_ch 52/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 14.780 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 2.3660
SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.156 mW/g
Maximum value of SAR (measured) = 1.214 mW/g



0 dB = 1.210mW/g = 1.66 dB mW/g

Front of EUT Wi-Fi 5.3 GHz CH64 - UL VS Ltd

Date: 1/12/2014
DUT: A1429



0 dB = 0.101 W/kg = -9.96 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5320 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz MSL Medium parameters used (interpolated): f = 5320 MHz; σ = 5.325 S/m; ε_r = 48.288; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(4.73, 4.73, 4.73); Calibrated: 7/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/9/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Front 2/Area Scan (101x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.202 W/kg
Configuration/Front 2/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.068 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.592 W/kg
SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.031 W/kg
Maximum value of SAR (measured) = 0.101 W/kg

Front of EUT Wi-Fi 5.3 GHz CH64 - Extract from Original Report

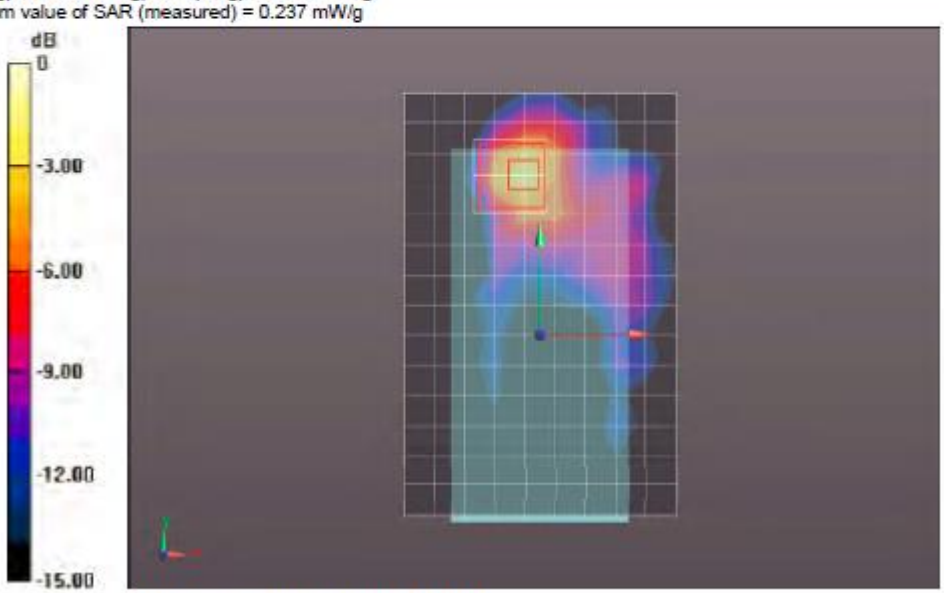
Test Laboratory: UL CCS SAR Lab A Date: 7/25/2012

WiFi 5.3GHz

Frequency: 5320 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5320 MHz; σ = 5.356 mho/m; ε_r = 47.551; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(3.99, 3.99, 3.99); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/802.11a_Ch 64/Area Scan (10x15x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.169 mW/g

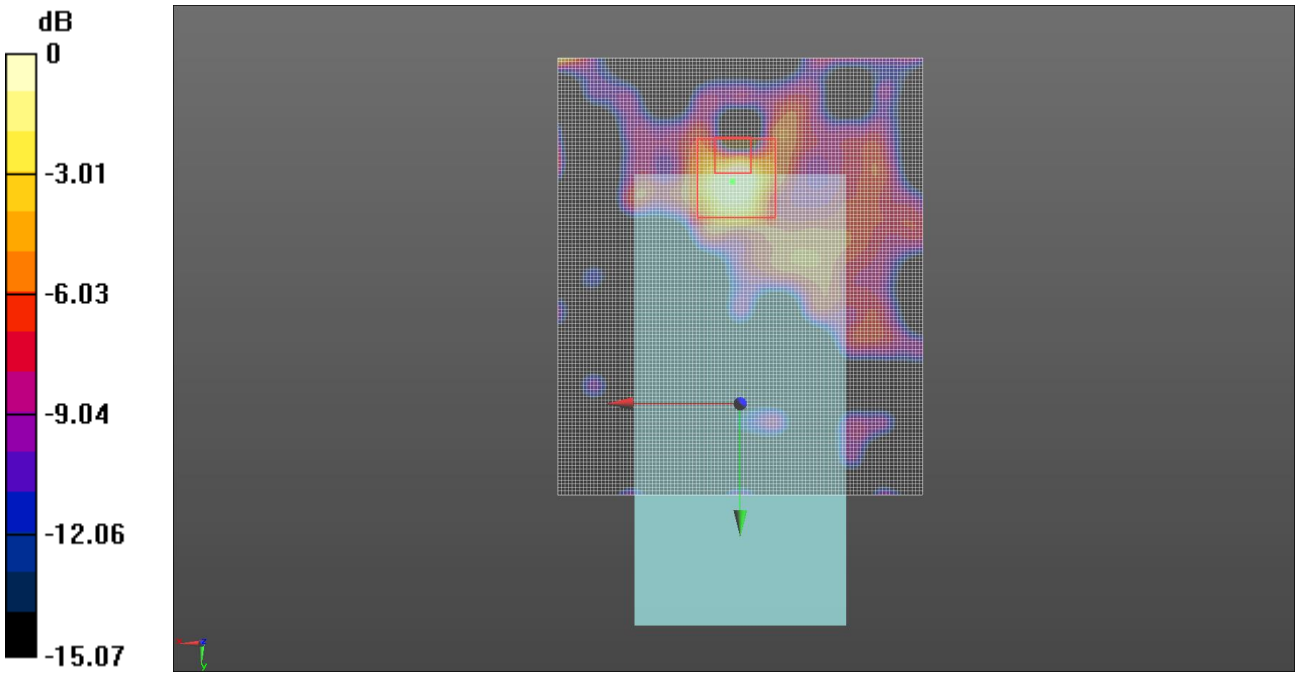
Front/802.11a_Ch 64/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.166 V/m; Power Drift = -0.0039 dB
Peak SAR (extrapolated) = 0.4110
SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.033 mW/g
Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.240mW/g = -12.40 dB mW/g

Front of EUT Wi-Fi 5.5 GHz CH116 - UL VS Ltd

Date: 1/12/2014
DUT: A1429; Type: Mobile Phone; Serial: Wi-Fi Sample 2



0 dB = 0.0741 W/kg = -11.30 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 5580 MHz;Duty Cycle: 1:1
Medium: 5200/5500/5800 MHz MSL Medium parameters used (interpolated): f = 5580 MHz; σ = 5.701 S/m; ε_r = 47.681; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV4 - SN3994; ConvF(3.98, 3.98, 3.98); Calibrated: 7/5/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/9/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/Front/Area Scan (101x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0950 W/kg
Configuration/Front/Zoom Scan (7x7x12) 2 (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.129 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.032 W/kg
Maximum value of SAR (measured) = 0.0741 W/kg

Front of EUT Wi-Fi 5.5 GHz CH116 - Extract from Original Report

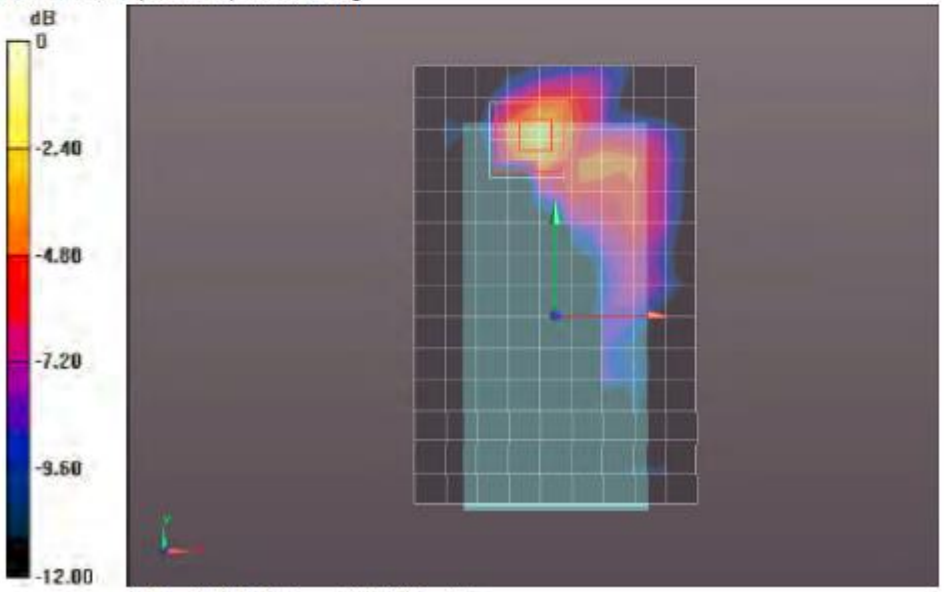
Test Laboratory: UL CCS SAR Lab A Date: 7/17/2012

WiFi 5.5GHz

Frequency: 5580 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C
Medium parameters used: f = 5580 MHz; σ = 5.837 mho/m; ε_r = 46.8; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(3.26, 3.26, 3.26); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/802.11a_Ch 116 w/Headset/Area Scan (10x15x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.158 mW/g

Front/802.11a_Ch 116 w/Headset/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.685 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.3850
SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.027 mW/g
Maximum value of SAR (measured) = 0.205 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g