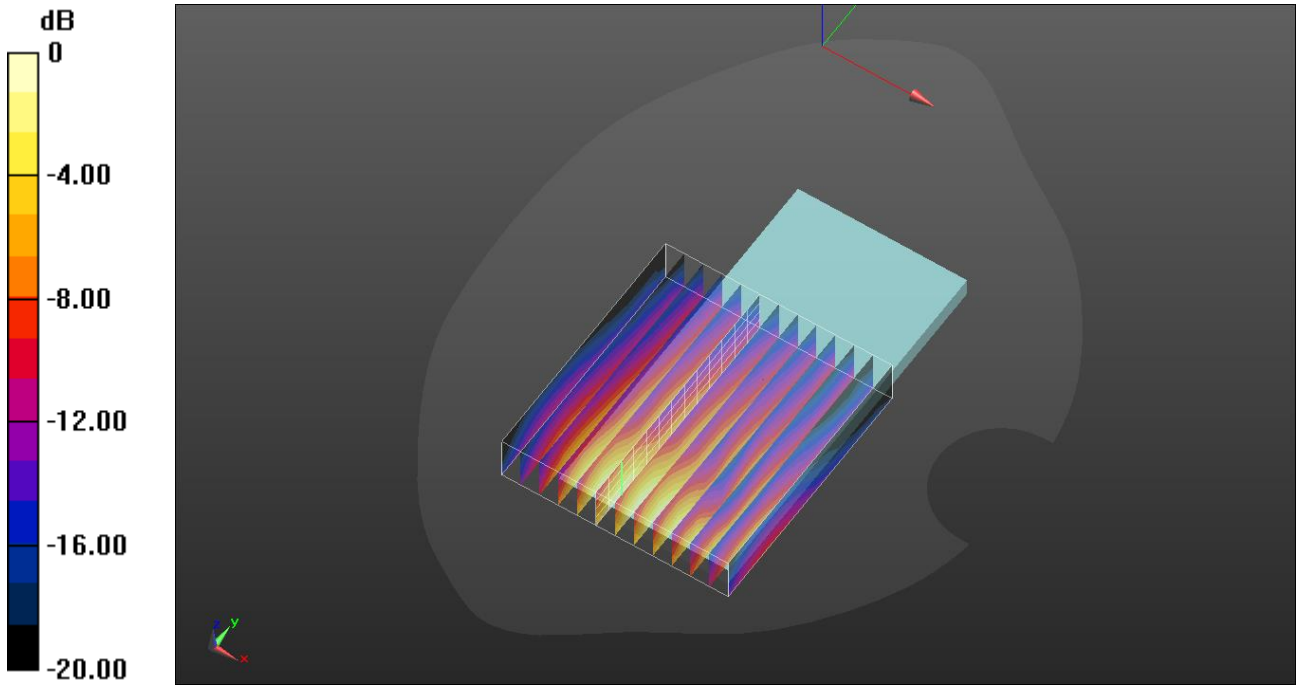
LTE Band 2

Frequency: 1900 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1900 MHz; σ = 1.435 S/m; ε_r = 38.945; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.36, 8.36, 8.36) @ 1900 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/QPSK RB 1/49 ch.19100 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.022 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.426 W/kg
SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.148 W/kg
Total Absorbed Power = 0.00905 W
Maximum value of SAR (measured) = 0.363 W/kg



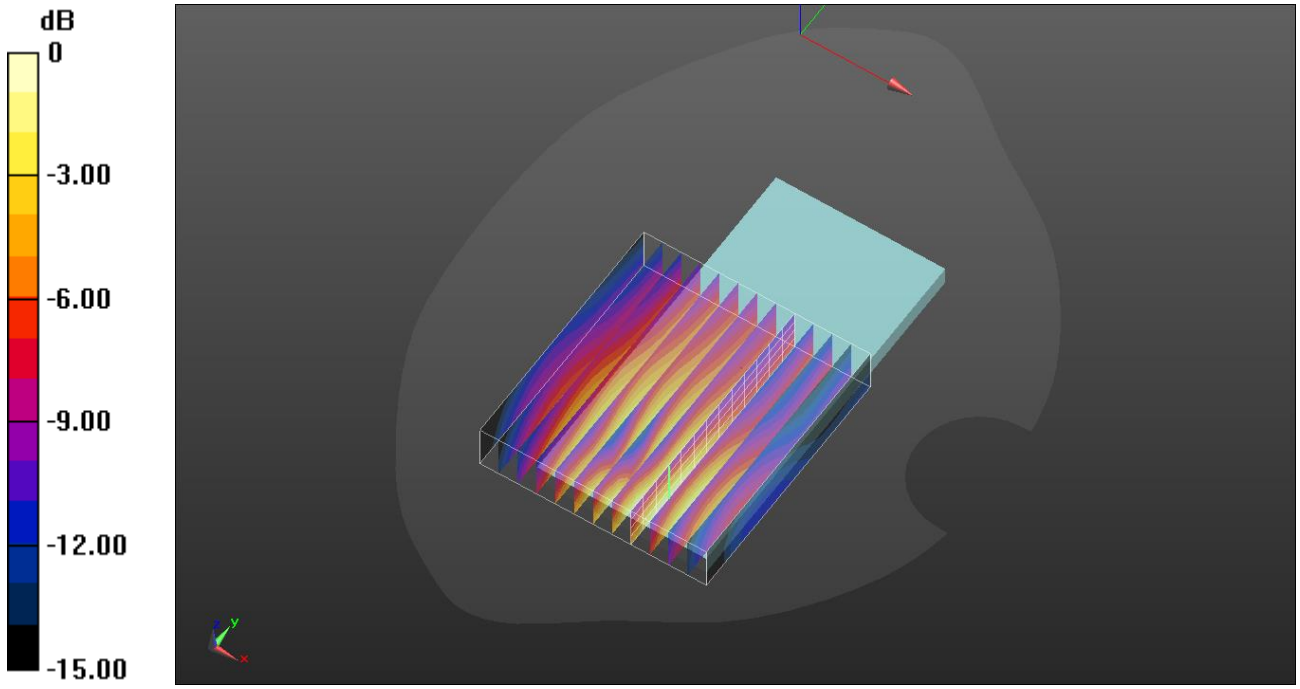
0 dB = 0.363 W/kg = -4.40 dBW/kg

NR Band n5

Frequency: 836.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/QPSK RB 1/104 ch.167300 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.48 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.956 W/kg
SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.292 W/kg
Total Absorbed Power = 0.0320 W
Maximum value of SAR (measured) = 0.781 W/kg



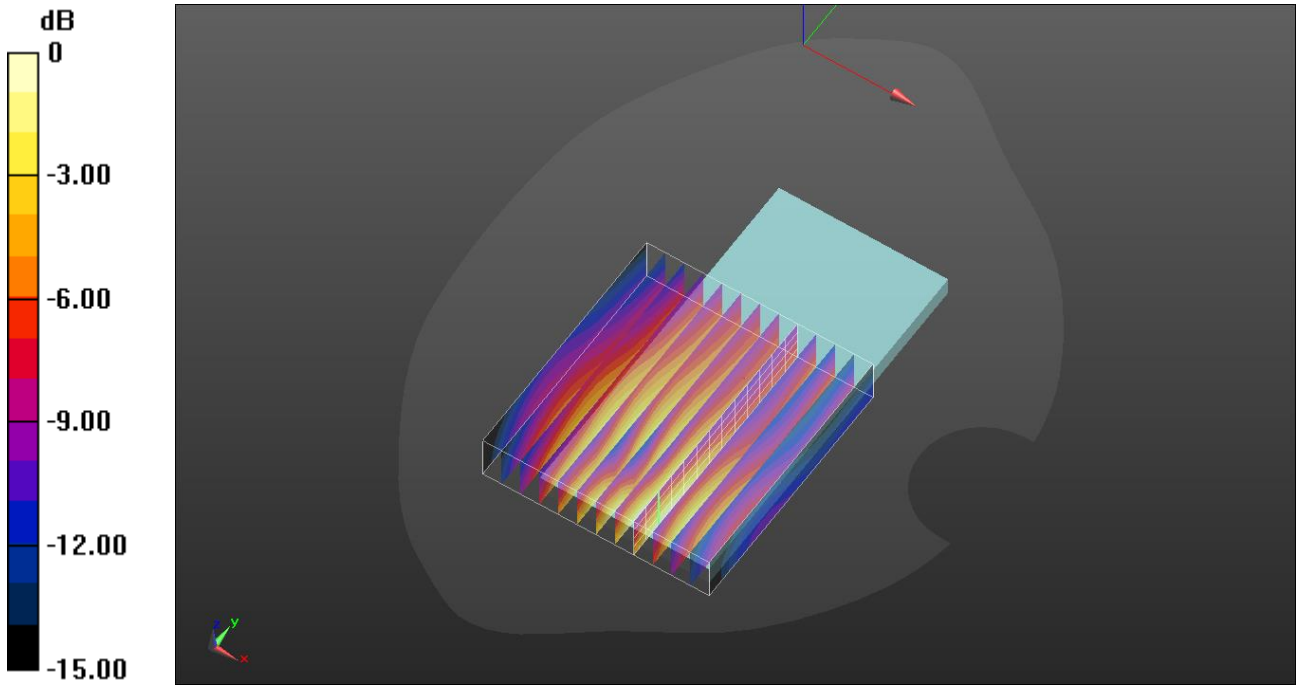
0 dB = 0.781 W/kg = -1.07 dBW/kg

LTE Band 5

Frequency: 836.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/QPSK RB 1/0 ch.20525 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.41 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.934 W/kg
SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.282 W/kg
Total Absorbed Power = 0.0316 W
Maximum value of SAR (measured) = 0.730 W/kg



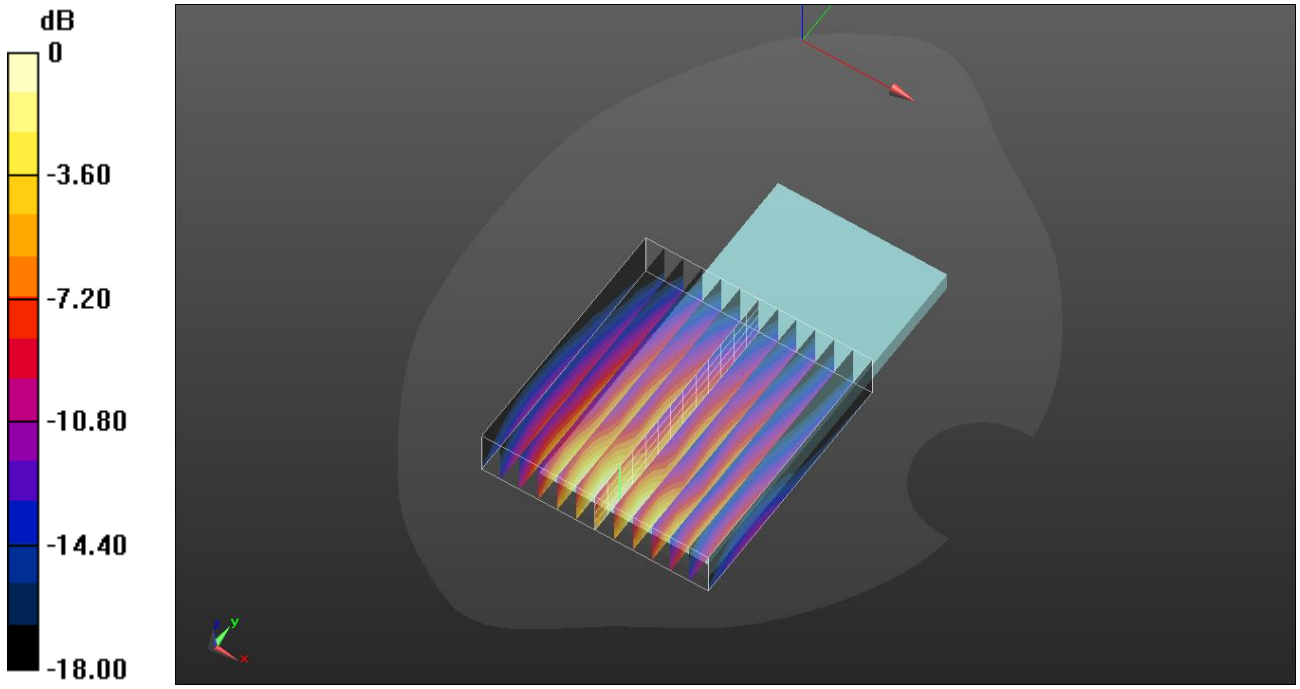
0 dB = 0.730 W/kg = -1.37 dBW/kg

NR Band n66

Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1720 MHz; σ = 1.329 S/m; ε_r = 39.039; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1720 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/QPSK RB1/53 ch.344000 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.780 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.613 W/kg
SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.221 W/kg
Total Absorbed Power = 0.0140 W
Maximum value of SAR (measured) = 0.528 W/kg



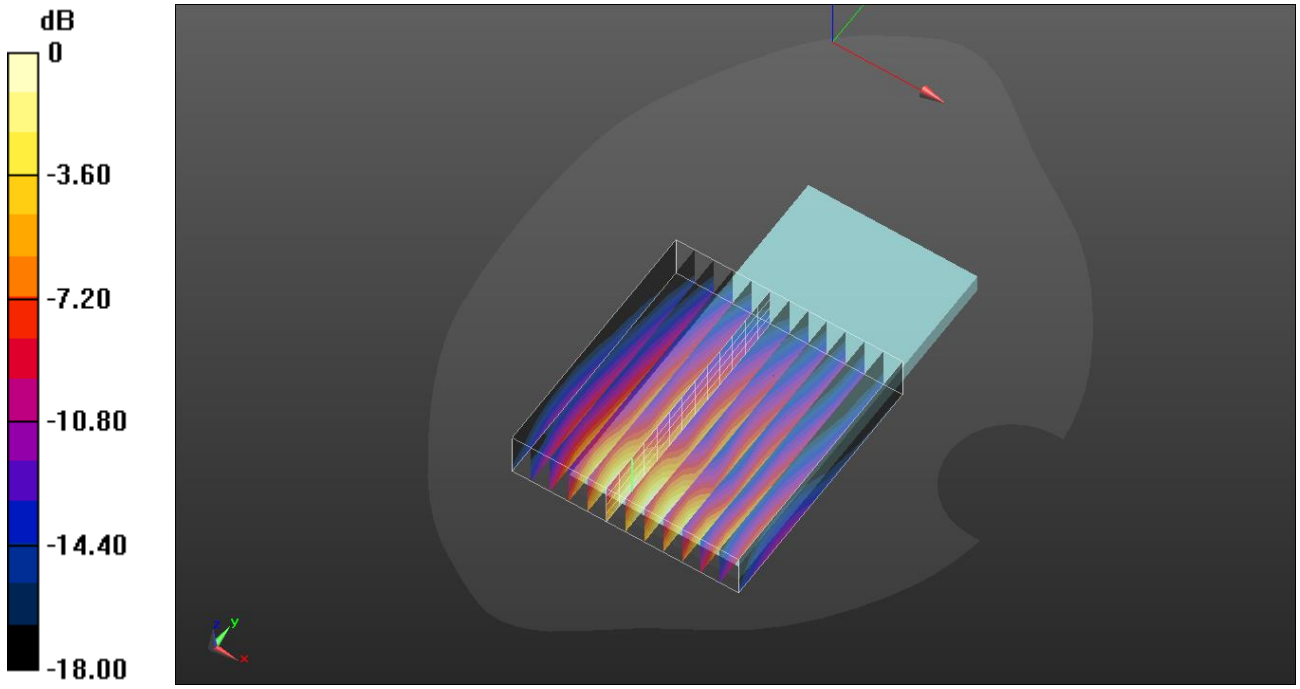
0 dB = 0.528 W/kg = -2.77 dBW/kg

LTE Band 66

Frequency: 1770 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1770 MHz; σ = 1.353 S/m; ε_r = 39.012; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1770 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/QPSK RB 50/0 ch.132572 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.781 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.726 W/kg
SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.253 W/kg
Total Absorbed Power = 0.0152 W
Maximum value of SAR (measured) = 0.620 W/kg

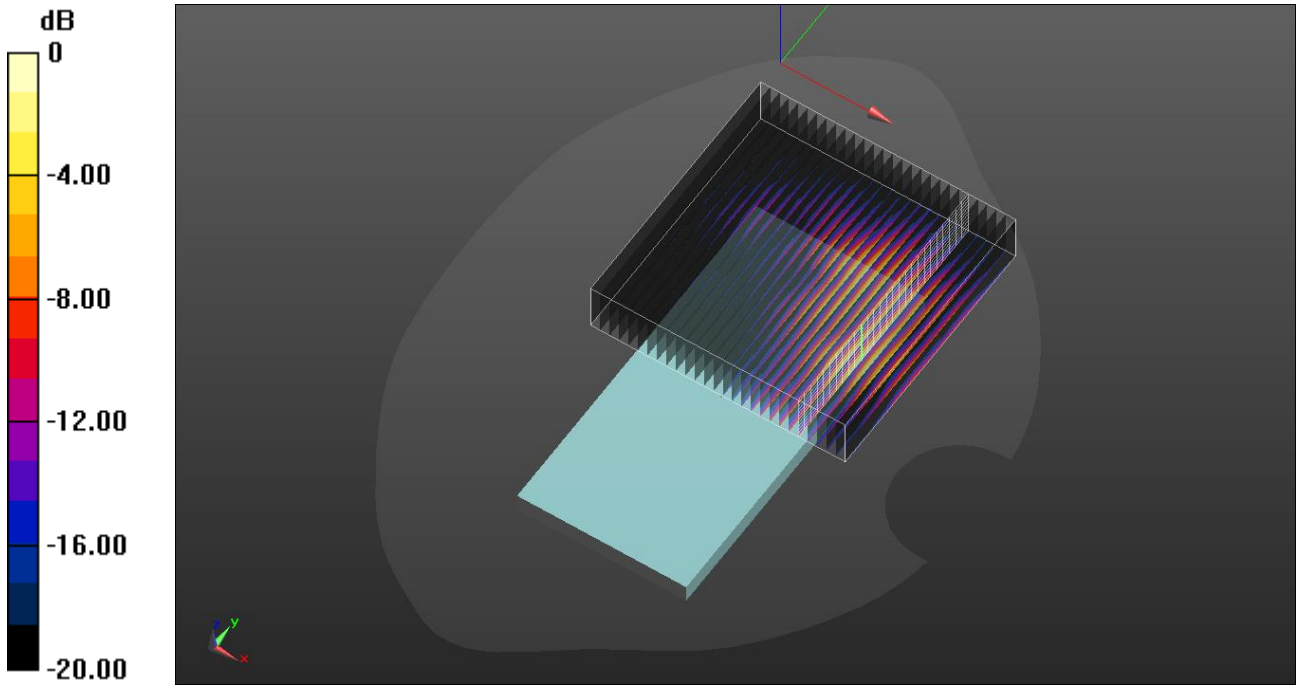


0 dB = 0.620 W/kg = -2.08 dBW/kg

UNII MIMO

Frequency: 5745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.1 S/m; ε_r = 34.53; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5745 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/802.11 a mode ch.149 MIMO 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.9870 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.101 W/kg
Total Absorbed Power = 0.00525 W
Maximum value of SAR (measured) = 0.704 W/kg



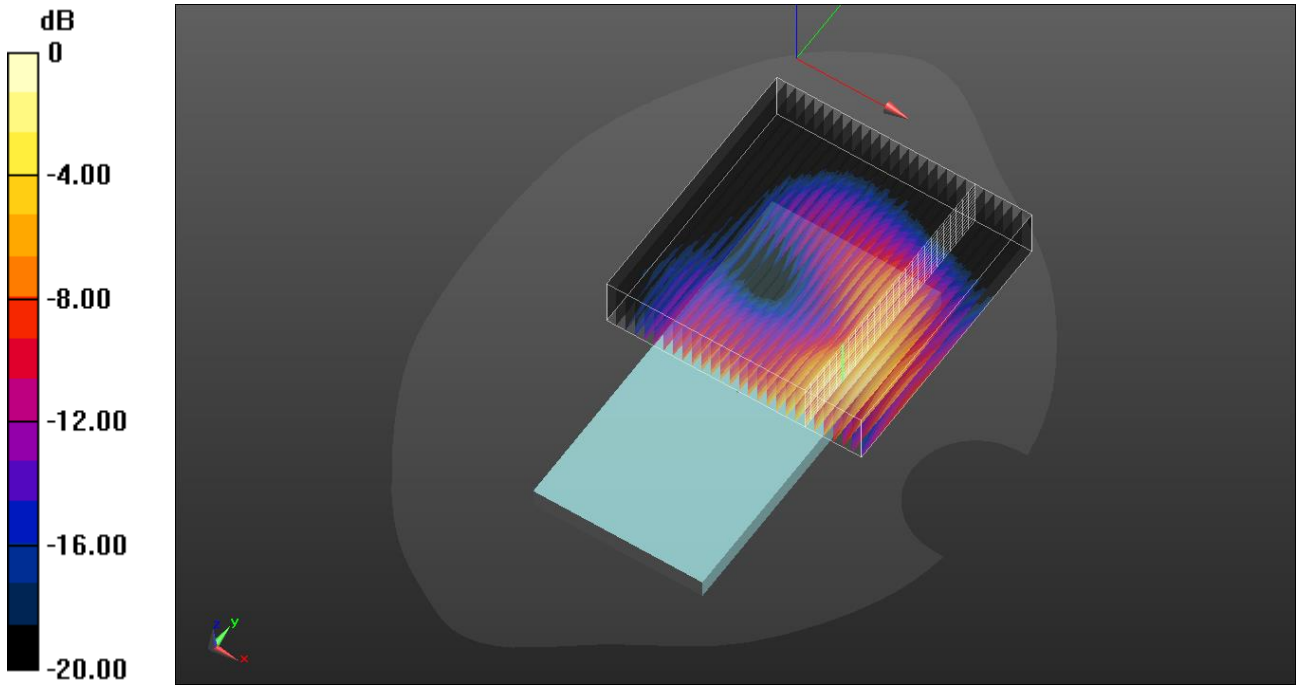
0 dB = 0.704 W/kg = -1.52 dBW/kg

Bluetooth

Frequency: 2480 MHz; Duty Cycle: 1:1.29033; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 2480 MHz; σ = 1.798 S/m; ε_r = 38.868; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2480 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/Bluetooth GFSK ch.78 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.854 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.429 W/kg
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.103 W/kg
Total Absorbed Power = 0.00530 W
Maximum value of SAR (measured) = 0.339 W/kg



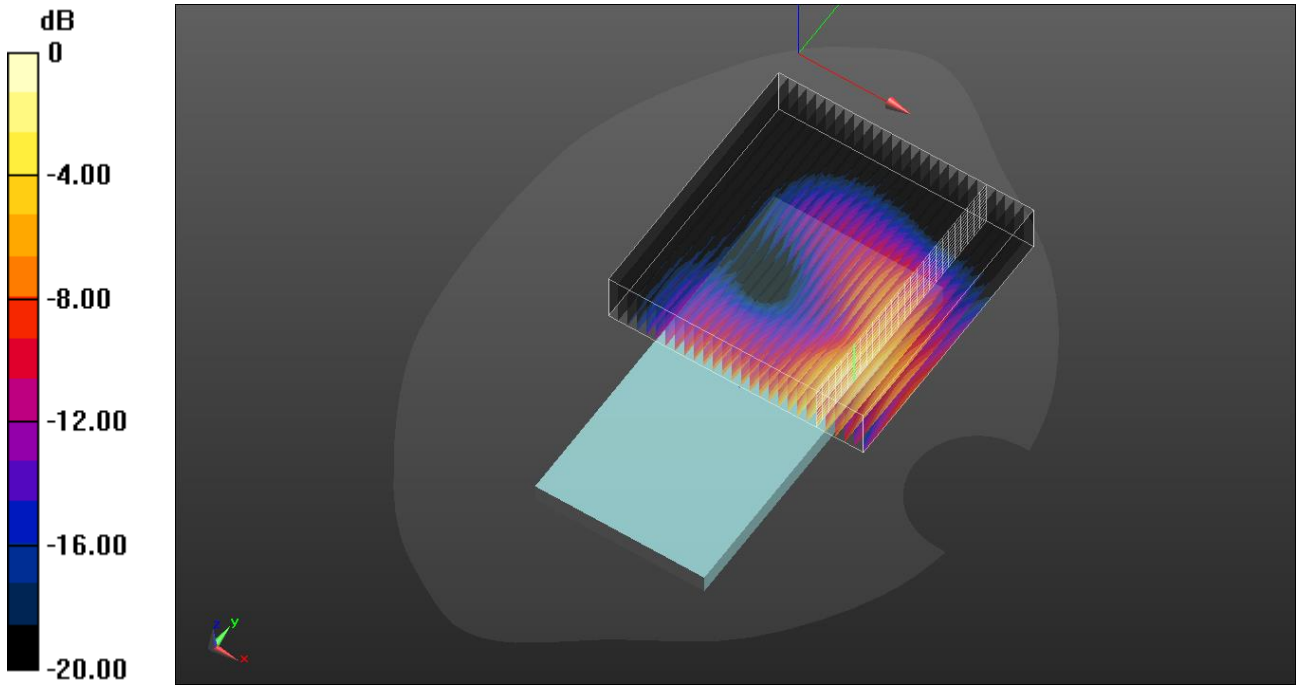
0 dB = 0.339 W/kg = -4.70 dBW/kg

DTS RSDB Ant1

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.807 S/m; ε_r = 38.057; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/802.11 b mode ch.6 RSDB SISO Ant1 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.279 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.498 W/kg
SAR(1 g) = 0.243 W/kg; SAR(10 g) = 0.117 W/kg
Total Absorbed Power = 0.00580 W
Maximum value of SAR (measured) = 0.403 W/kg



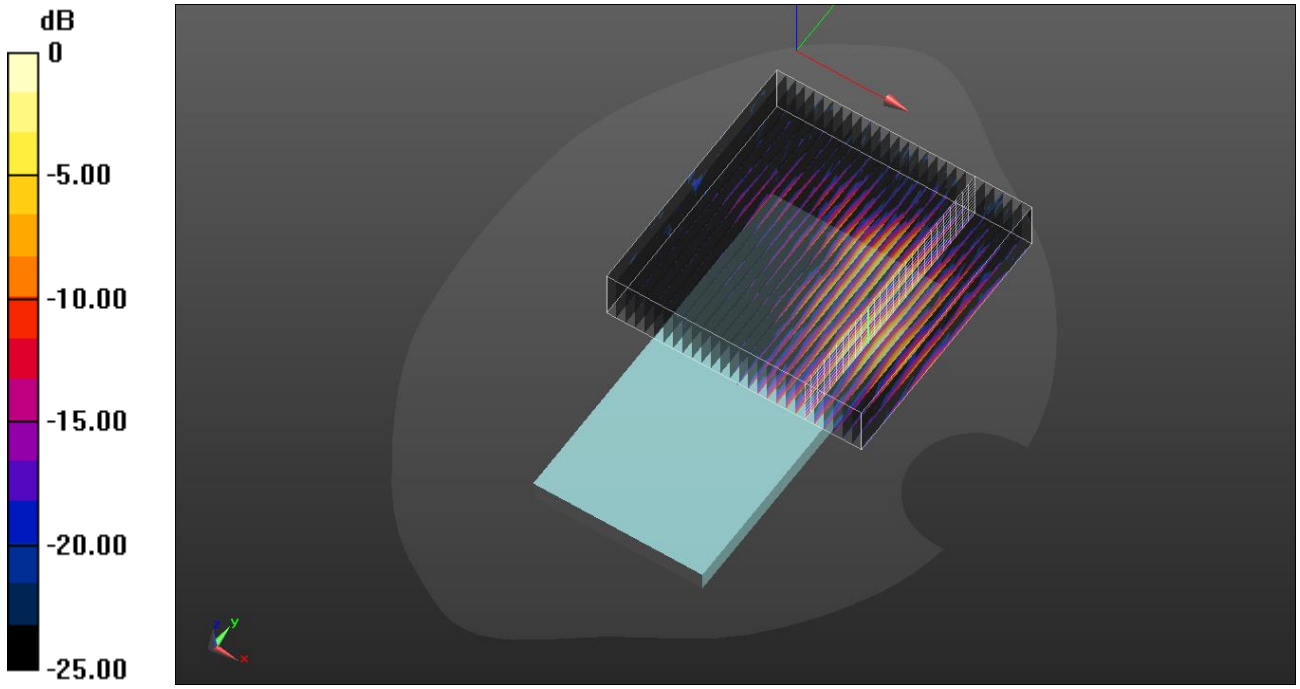
0 dB = 0.403 W/kg = -3.95 dBW/kg

UNII RSDB MIMO

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 5775 MHz; σ = 5.134 S/m; ε_r = 34.46; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5775 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/802.11 ac mode Ch.155 RSDB MIMO 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.441 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.639 W/kg
SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.053 W/kg
Total Absorbed Power = 0.00247 W
Maximum value of SAR (measured) = 0.390 W/kg



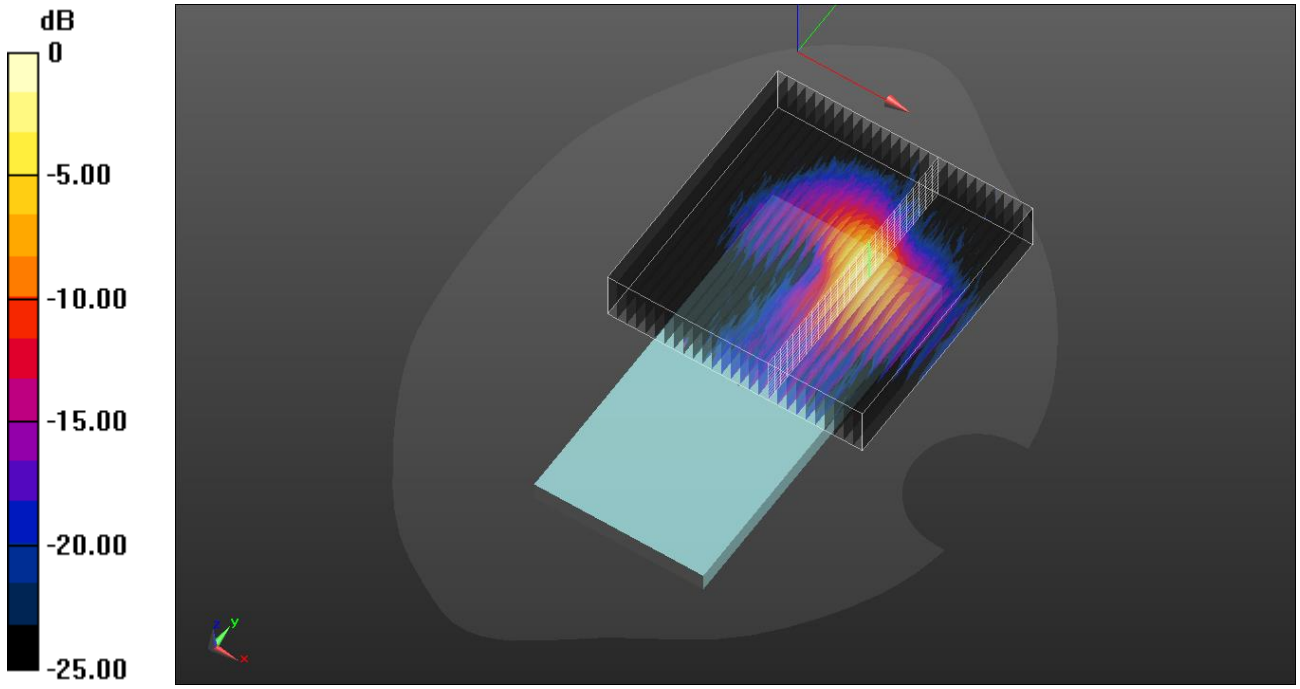
0 dB = 0.390 W/kg = -4.09 dBW/kg

DTS RSDB Ant 2

Frequency: 2412 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 2412 MHz; σ = 1.743 S/m; ε_r = 38.964; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2412 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/802.11 b mode ch.1 RSDB SISO Ant 2 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.66 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.319 W/kg
SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.055 W/kg
Total Absorbed Power = 0.00123 W
Maximum value of SAR (measured) = 0.225 W/kg



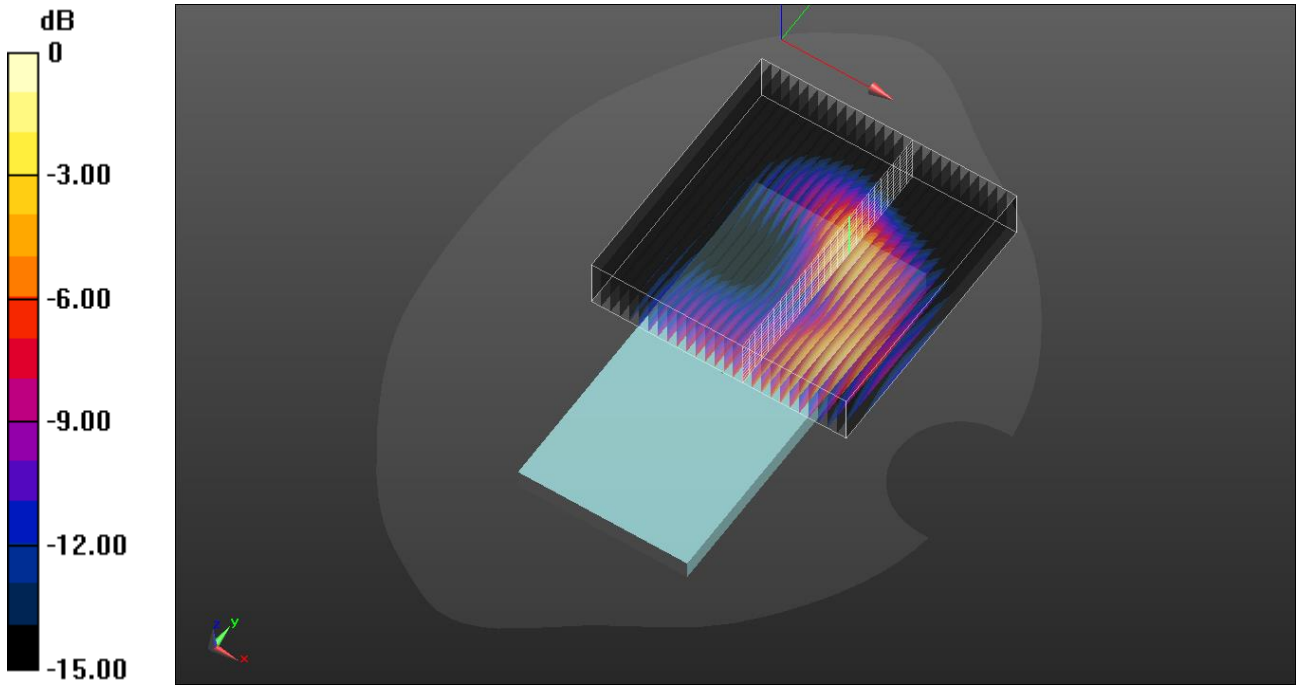
0 dB = 0.225 W/kg = -6.48 dBW/kg

DTS RSDB MIMO

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.762 S/m; ε_r = 38.945; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Rear/802.11 b mode ch.6 RSDB MIMO 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.001 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.789 W/kg
SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.186 W/kg
Total Absorbed Power = 0.0121 W
Maximum value of SAR (measured) = 0.633 W/kg



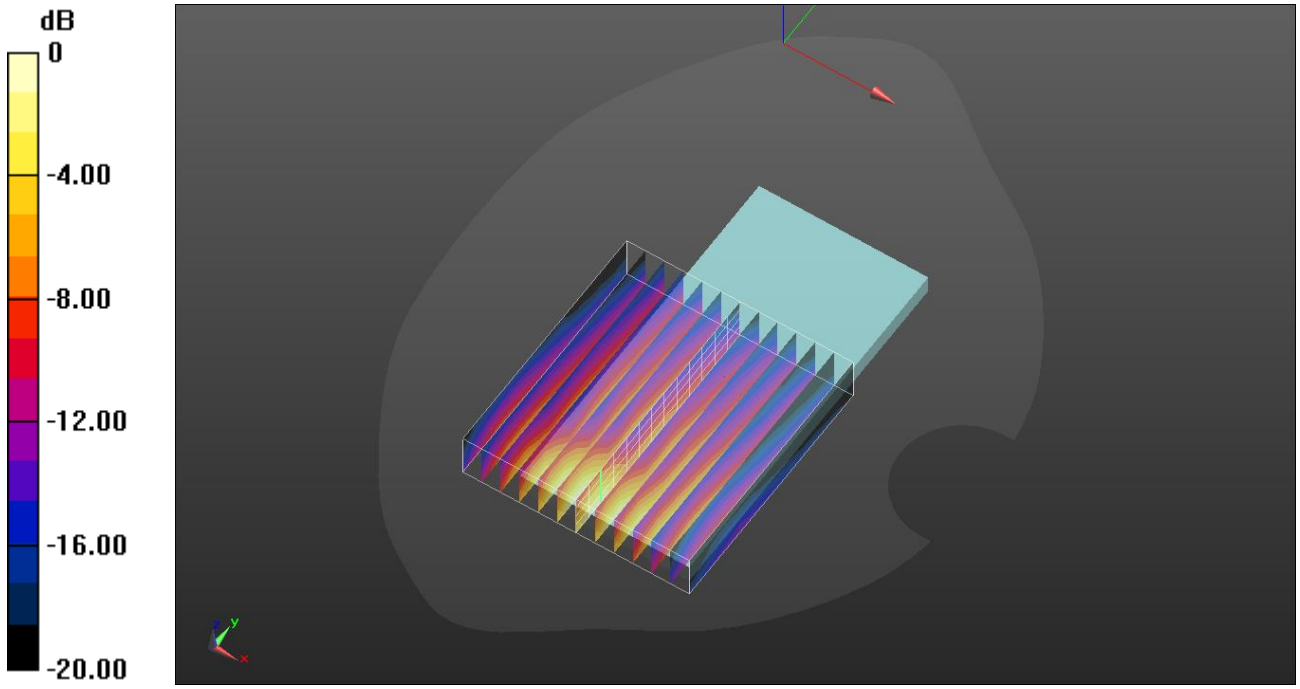
0 dB = 0.633 W/kg = -1.99 dBW/kg

LTE Band 2

Frequency: 1900 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1900 MHz; σ = 1.435 S/m; ε_r = 38.945; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.36, 8.36, 8.36) @ 1900 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/QPSK RB 1/49 ch.19100 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.077 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.457 W/kg
SAR(1 g) = 0.267 W/kg; SAR(10 g) = 0.145 W/kg
Total Absorbed Power = 0.00826 W
Maximum value of SAR (measured) = 0.365 W/kg

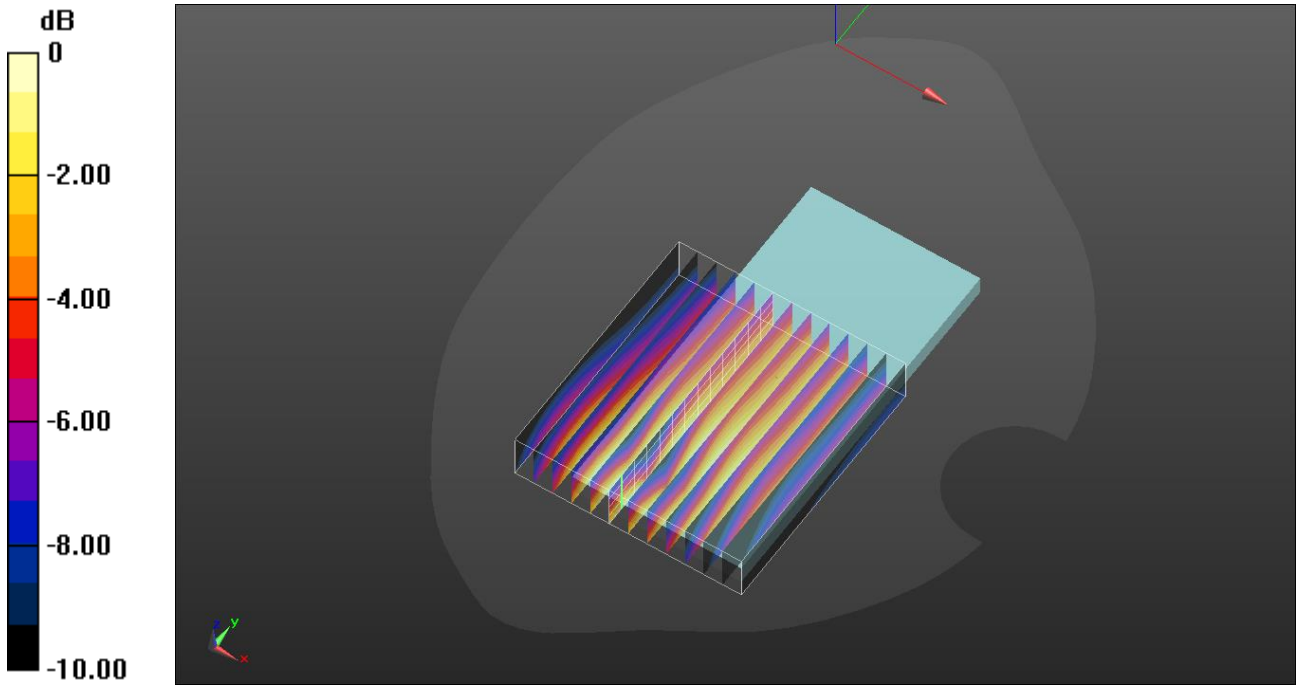


0 dB = 0.365 W/kg = -4.38 dBW/kg

NR Band n5

Frequency: 836.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/QPSK RB 50/28 ch.167300 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.09 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.561 W/kg
SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.238 W/kg
Total Absorbed Power = 0.0306 W
Maximum value of SAR (measured) = 0.454 W/kg



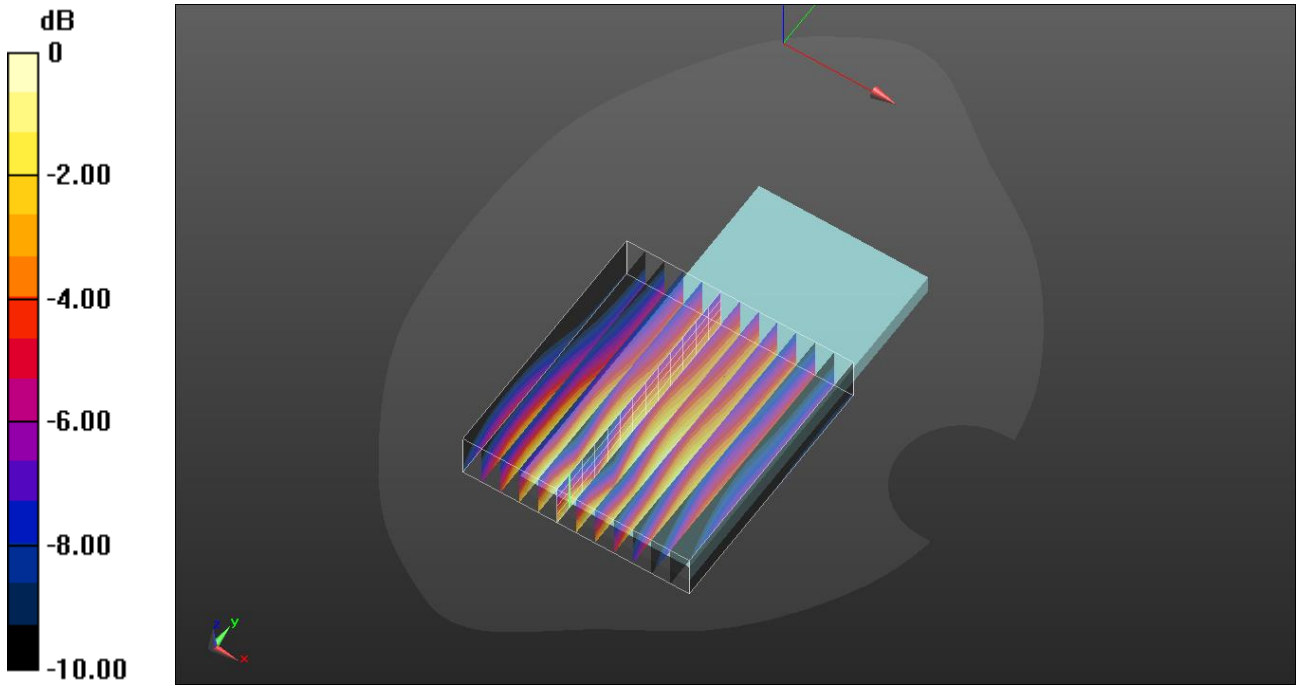
0 dB = 0.454 W/kg = -3.43 dBW/kg

LTE Band 5

Frequency: 836.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.893 S/m; ε_r = 41.47; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/QPSK RB 1/0 ch.20525 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.99 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.821 W/kg
SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.345 W/kg
Total Absorbed Power = 0.0433 W
Maximum value of SAR (measured) = 0.687 W/kg



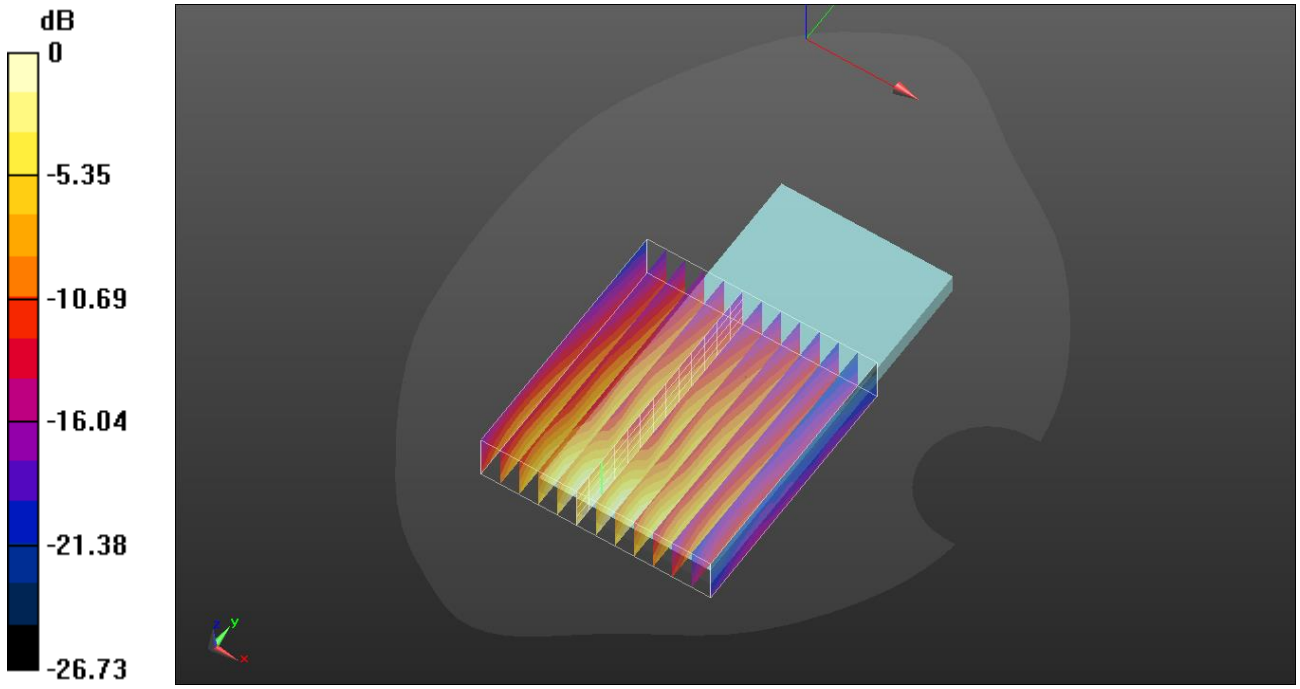
0 dB = 0.687 W/kg = -1.63 dBW/kg

NR Band n66

Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1720 MHz; σ = 1.326 S/m; ε_r = 39.572; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1720 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/QPSK RB 1/53 ch.344000 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.836 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.640 W/kg
SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.218 W/kg
Total Absorbed Power = 0.0128 W
Maximum value of SAR (measured) = 0.528 W/kg



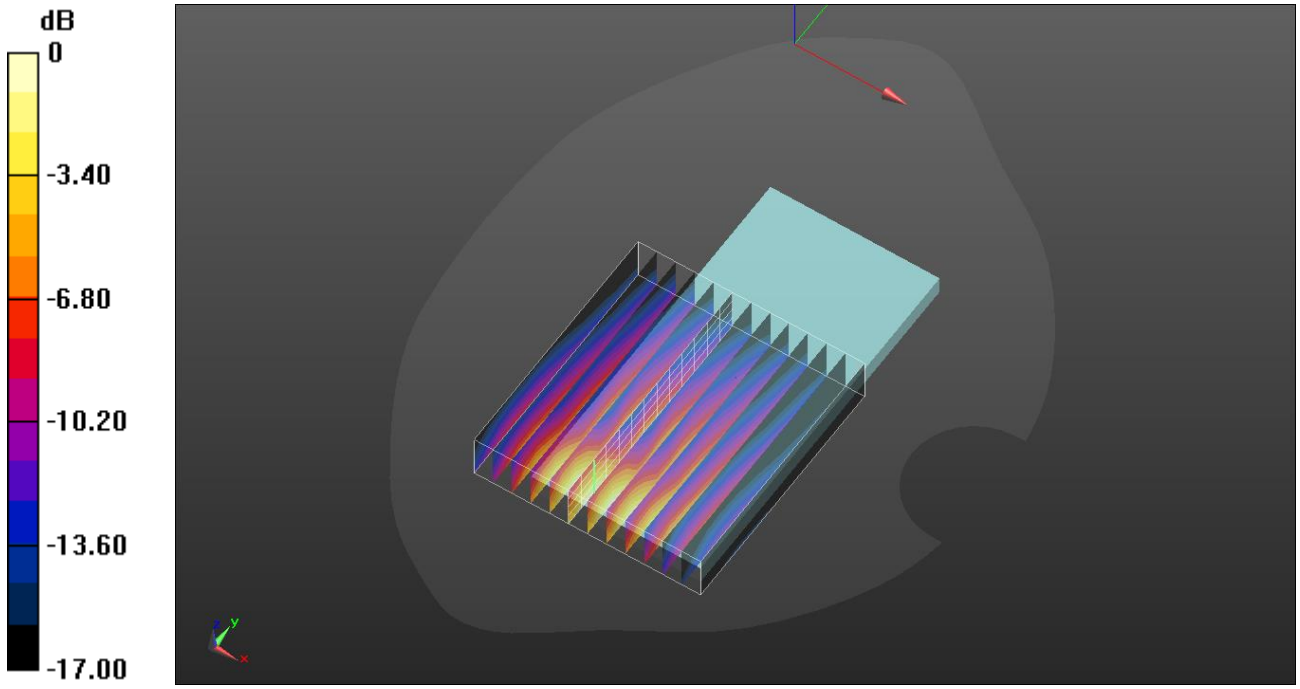
0 dB = 0.528 W/kg = -2.77 dBW/kg

LTE Band 66

Frequency: 1770 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1770 MHz; σ = 1.356 S/m; ε_r = 39.481; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1770 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/QPSK RB 50/0 ch.132572 10mm/Volume Scan (14x13x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.415 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.837 W/kg
SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.283 W/kg
Total Absorbed Power = 0.0162 W
Maximum value of SAR (measured) = 0.705 W/kg

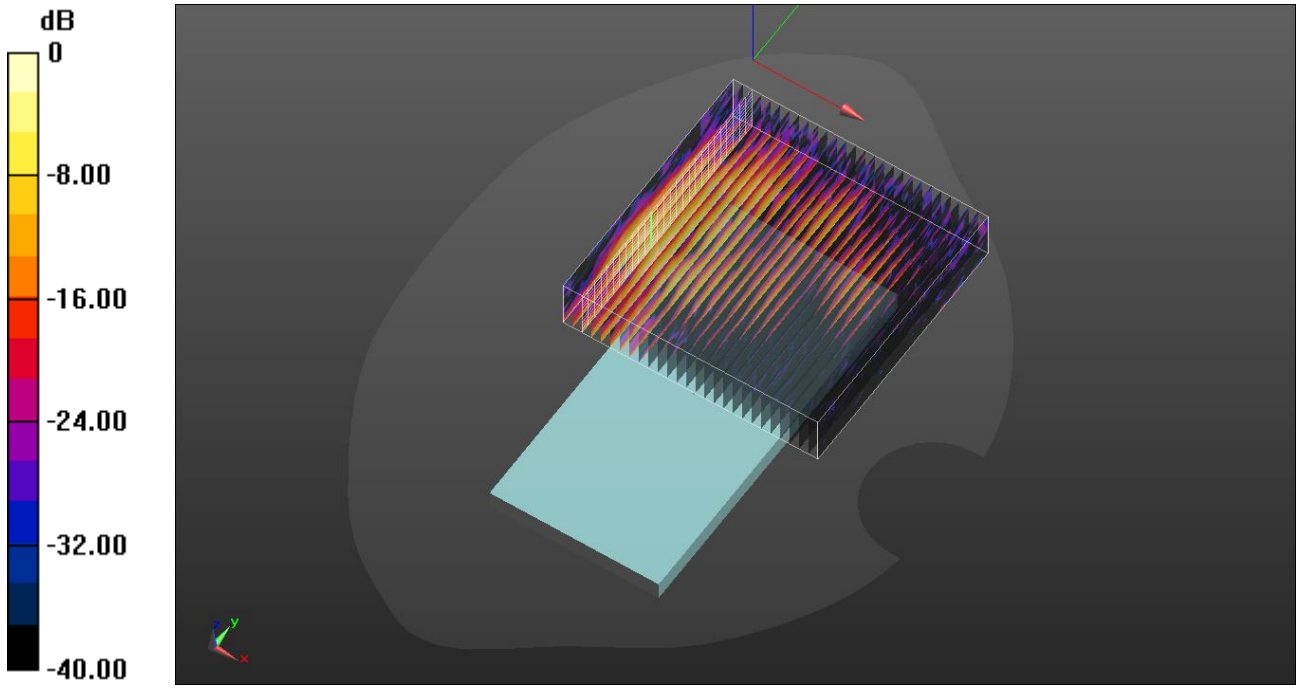


0 dB = 0.705 W/kg = -1.52 dBW/kg

UNII MIMO

Frequency: 5745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.1 S/m; ε_r = 34.53; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5745 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/802.11 a mode ch.149 MIMO 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.361 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.095 W/kg
Total Absorbed Power = 0.00365 W
Maximum value of SAR (measured) = 0.683 W/kg



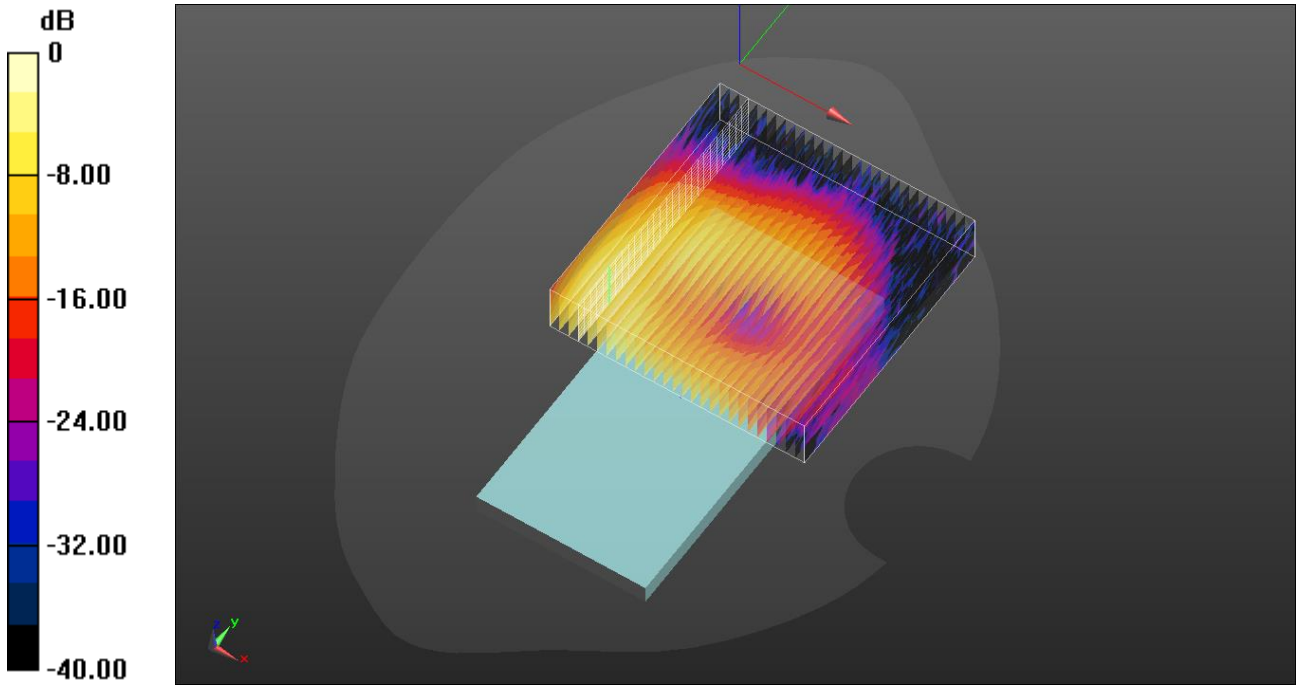
0 dB = 0.683 W/kg = -1.66 dBW/kg

Bluetooth

Frequency: 2480 MHz; Duty Cycle: 1:1.29033; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 2480 MHz; σ = 1.798 S/m; ε_r = 38.868; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2480 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/Bluetooth GFSK ch.78 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.145 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.947 W/kg
SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.099 W/kg
Total Absorbed Power = 0.00374 W
Maximum value of SAR (measured) = 0.340 W/kg



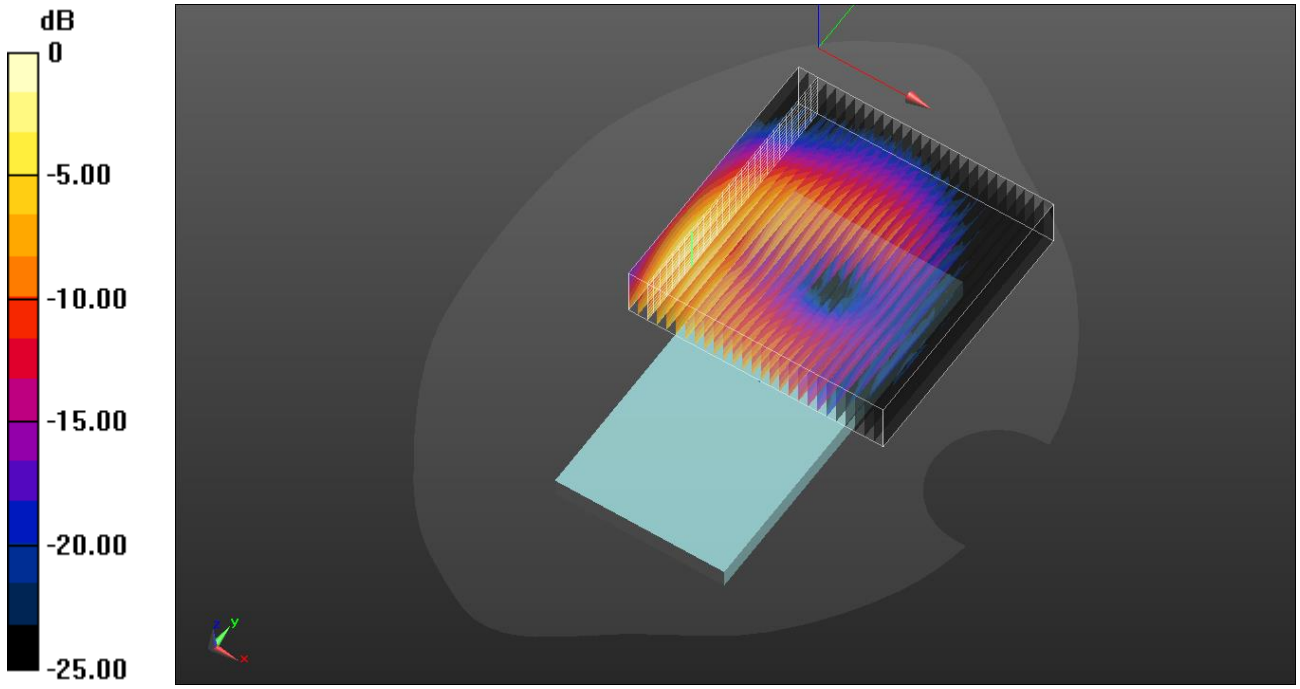
0 dB = 0.340 W/kg = -4.69 dBW/kg

DTS RSDB MIMO

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.806 S/m; ε_r = 38.215; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/802.11 b mode ch.6 RSDB MIMO 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.230 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.590 W/kg
SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.135 W/kg
Total Absorbed Power = 0.00672 W
Maximum value of SAR (measured) = 0.474 W/kg



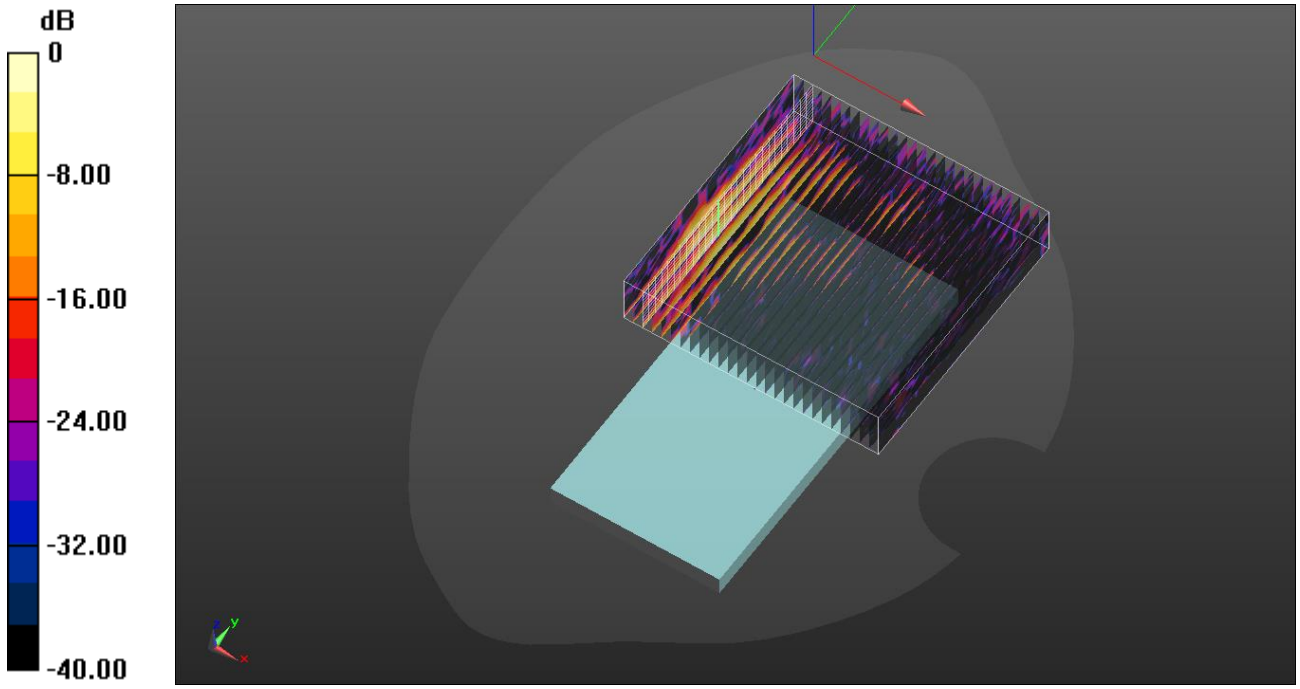
0 dB = 0.474 W/kg = -3.24 dBW/kg

UNII RSDB MIMO

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 5775 MHz; σ = 5.134 S/m; ε_r = 34.46; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5775 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Front/802.11 ac mode ch.155 RSDB MIMO 10mm/Volume Scan (28x28x12): Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.709 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.475 W/kg
SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.032 W/kg
Total Absorbed Power = 0.000926 W
Maximum value of SAR (measured) = 0.303 W/kg



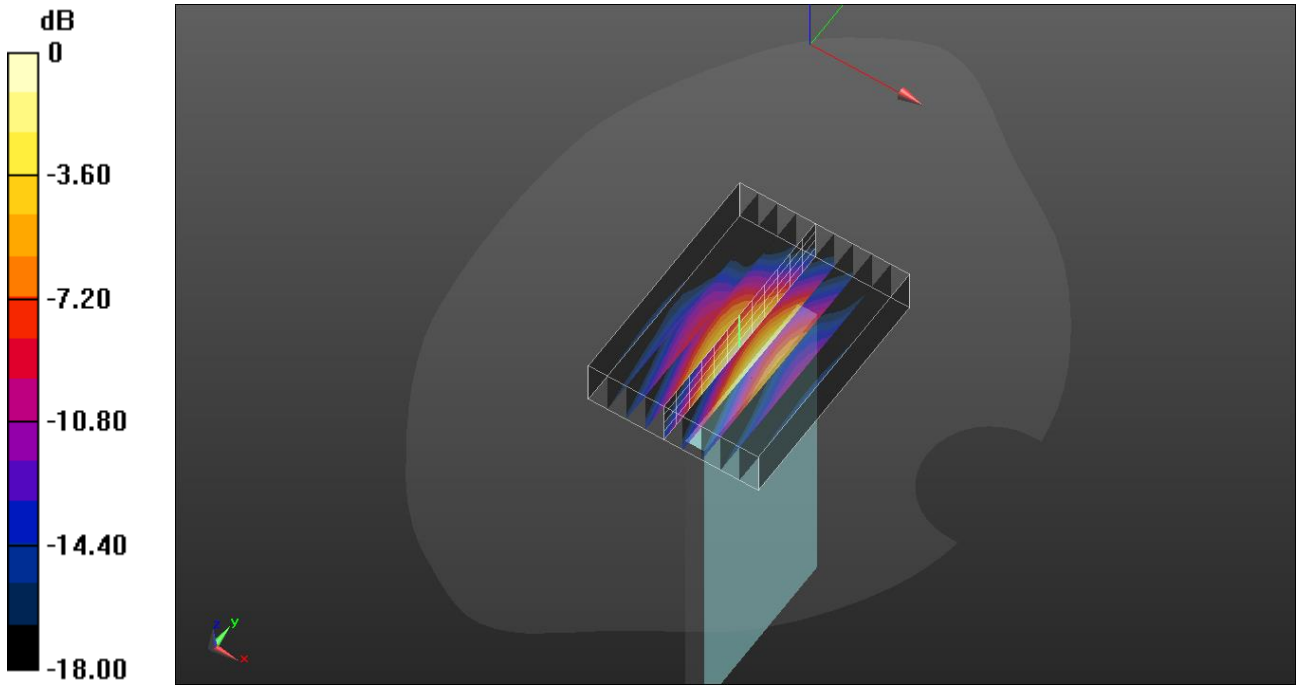
0 dB = 0.303 W/kg = -5.19 dBW/kg

LTE Band 2

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1880 MHz; σ = 1.42 S/m; ε_r = 38.968; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.36, 8.36, 8.36) @ 1880 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Edge 3/QPSK RB 1/0 ch.18900 10mm/Volume Scan (13x10x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.93 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.439 W/kg
Total Absorbed Power = 0.0138 W
Maximum value of SAR (measured) = 1.13 W/kg



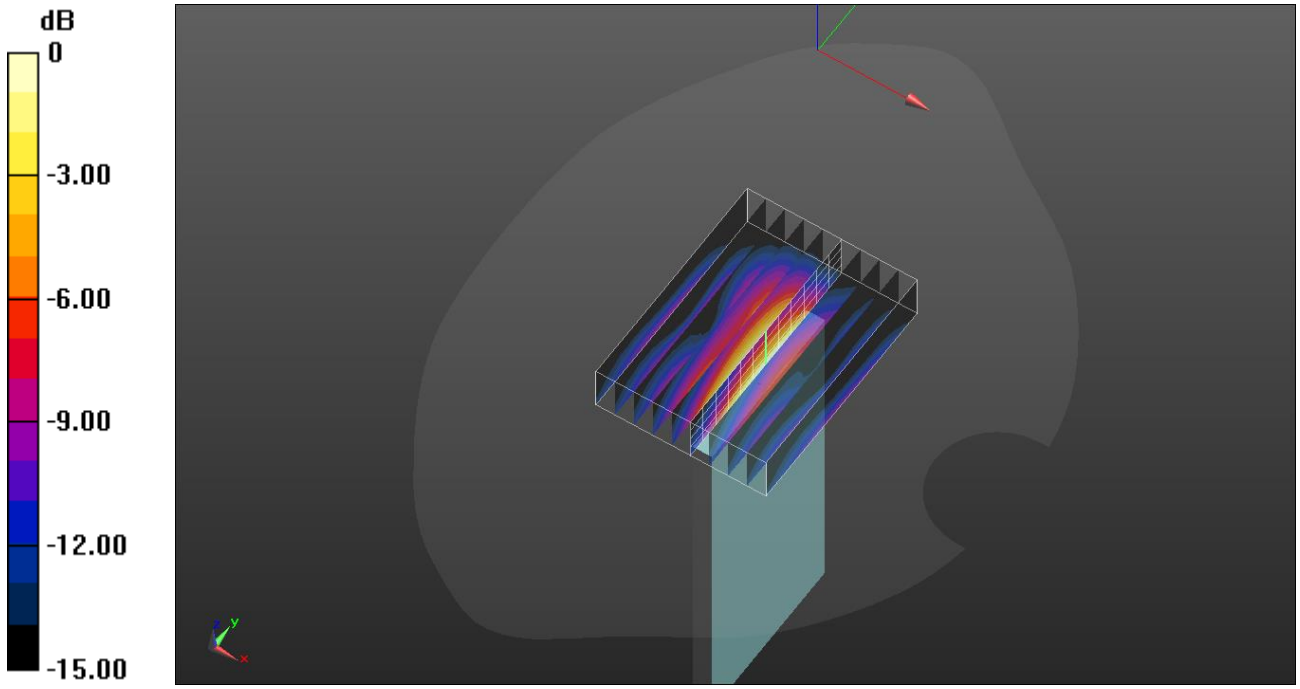
0 dB = 1.13 W/kg = 0.53 dBW/kg

NR Band n5

Frequency: 836.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Edge 3/QPSK RB1/104 ch.167300 10mm/Volume Scan (13x10x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.67 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.658 W/kg
SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.155 W/kg
Total Absorbed Power = 0.00641 W
Maximum value of SAR (measured) = 0.451 W/kg



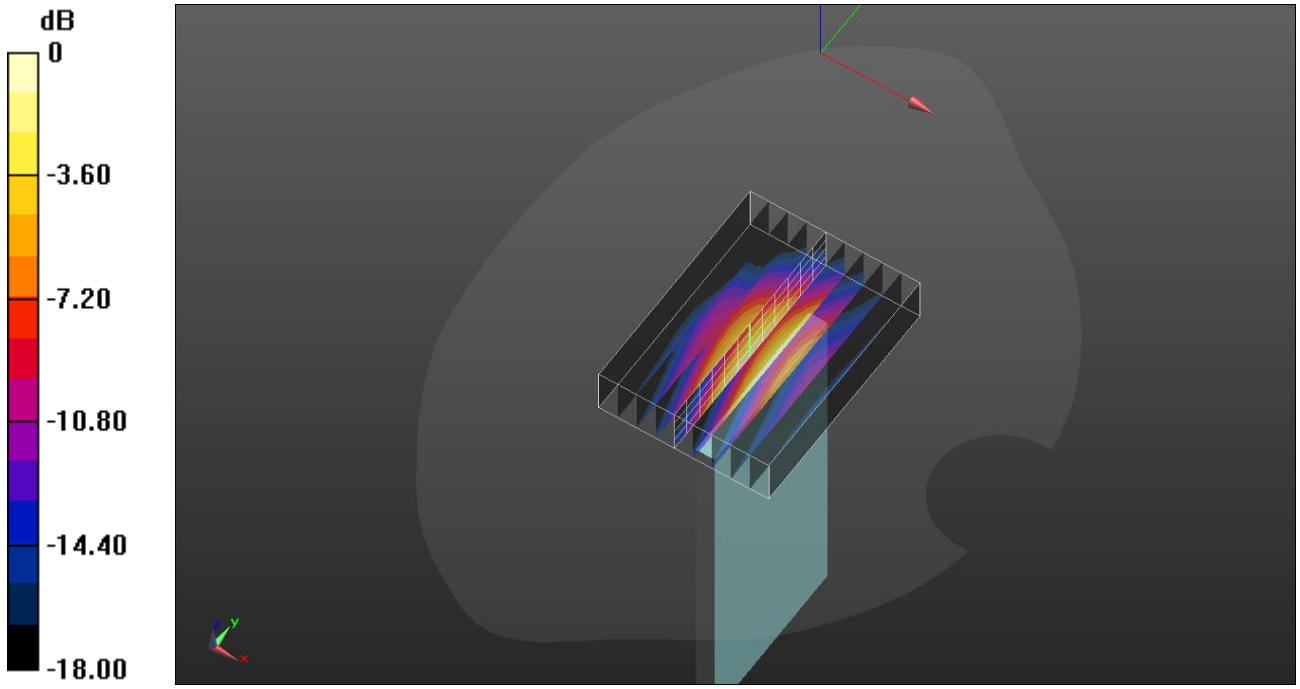
0 dB = 0.451 W/kg = -3.46 dBW/kg

LTE Band 66

Frequency: 1770 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 1770 MHz; σ = 1.353 S/m; ε_r = 39.012; 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 0.012W/kg
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1770 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Edge 3/QPSK RB 100/0 ch.132572 10mm/Volume Scan (13x10x5): Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.60 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.54 W/kg
SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.473 W/kg
Total Absorbed Power = 0.0151 W
Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

LTE Band 2 + NR Band n5

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Rear/QPSK RB 1/49 ch.19100 10mm/Volume Scan:

Date/Time: 2020-11-10 Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1900 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.435 S/m; ε_r = 38.945; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

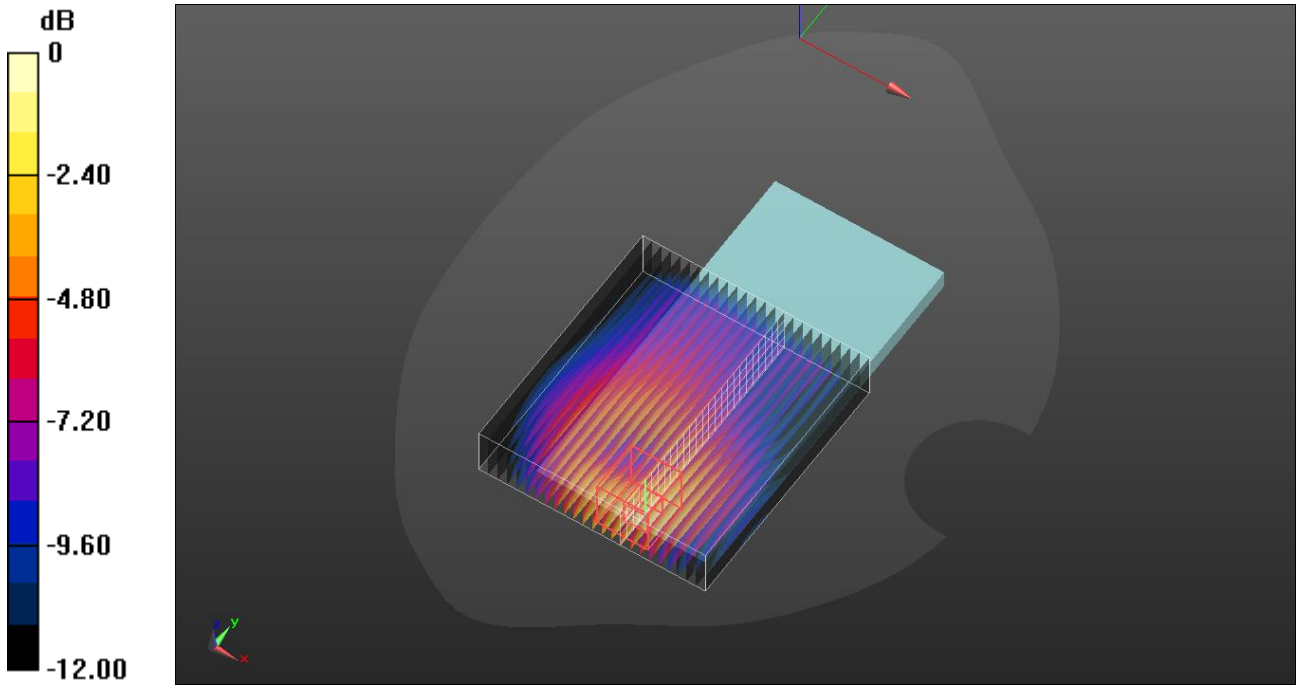
- Probe: EX3DV4 - SN7313; ConvF(8.36, 8.36, 8.36) @ 1900 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Rear/QPSK RB 1/104 ch.167300 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.460 W/kg
Maximum value of SAR (interpolated) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

LTE Band 5 + NR Band n66

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Rear/QPSK RB 1/0 ch.20525 10mm/Volume Scan:

Date/Time: 2020-11-10 Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL 835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

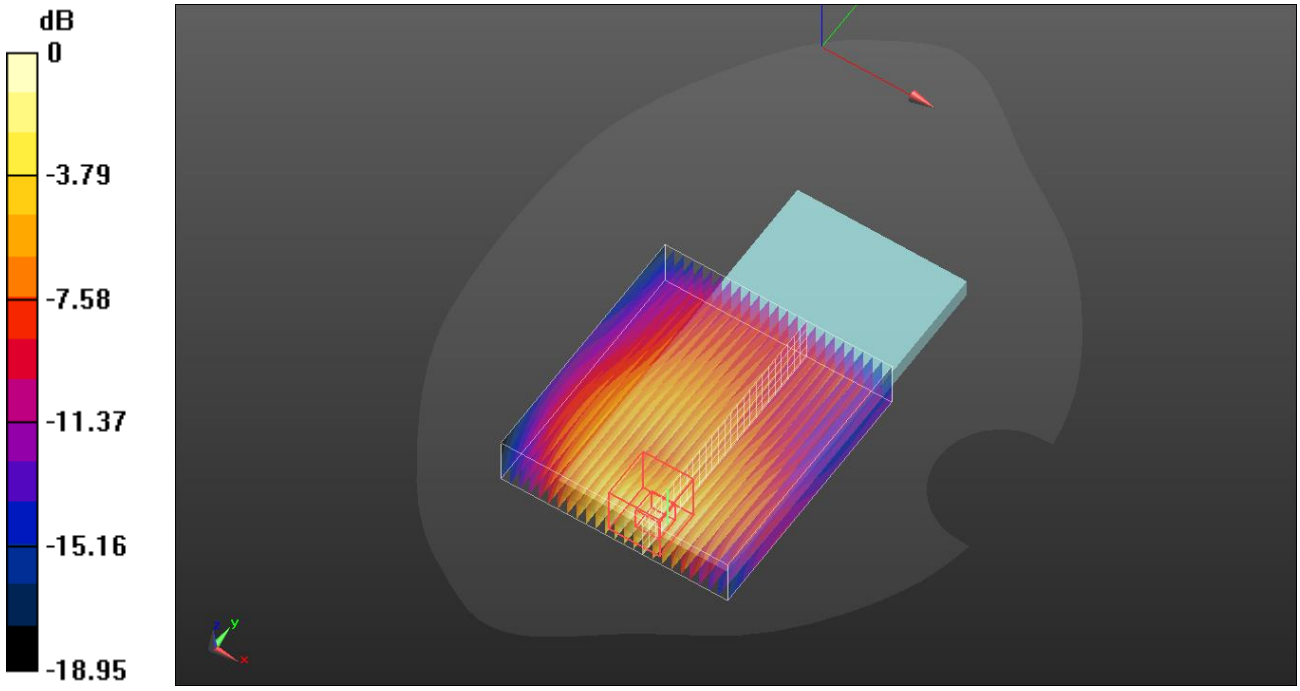
- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Rear/QPSK RB1/53 ch.344000 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1720 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1700 Medium parameters used: f = 1720 MHz; σ = 1.329 S/m; ε_r = 39.039; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1720 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.939 W/kg; SAR(10 g) = 0.537 W/kg
Maximum value of SAR (interpolated) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

LTE Band 66 + NR Band n5

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Rear/QPSK RB 50/0 ch.132572 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1770 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1700 Medium parameters used: f = 1770 MHz; σ = 1.353 S/m; ε_r = 39.012; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

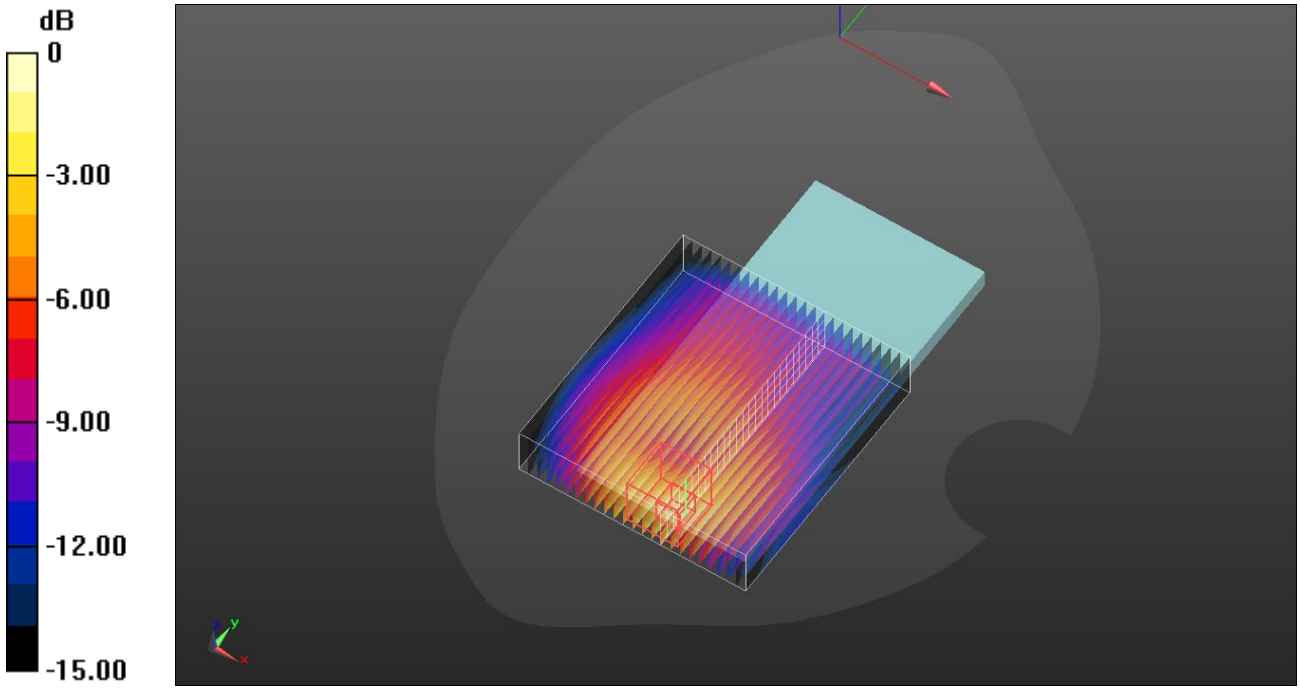
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1770 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Rear/QPSK RB 1/104 ch.167300 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.559 W/kg
Maximum value of SAR (interpolated) = 1.68 W/kg



0 dB = 1.68 W/kg = 2.25 dBW/kg

UNII MIMO + Bluetooth

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Rear/802.11 a mode ch.149 MIMO 10mm/Volume Scan:

Date/Time: 2020-11-10, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5745 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL5GHz Medium parameters used (interpolated): f = 5745 MHz; σ = 5.1 S/m; ε_r = 34.53; ρ = 1000 kg/m^3
Phantom section: Flat Section , Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

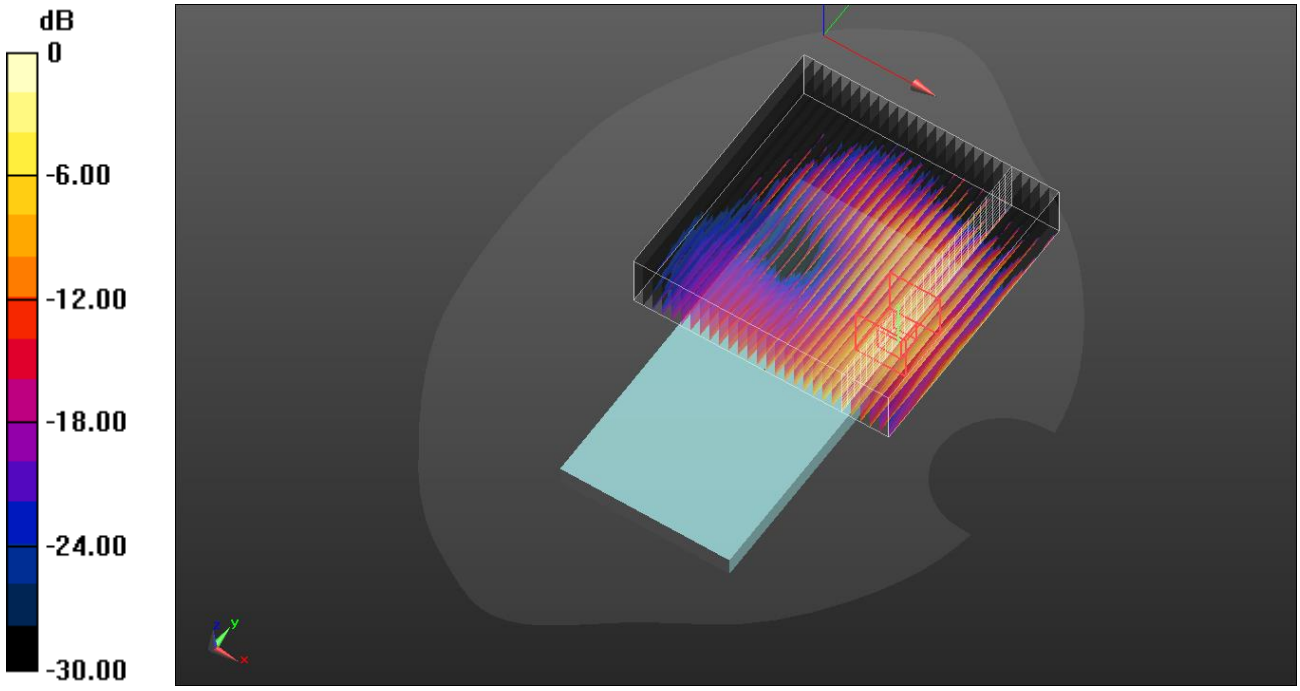
- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5745 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Rear/Bluetooth GFSK ch.78 10mm/Volume Scan:

Date/Time: 2020-11-13, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, Bluetooth (DH5) (0); Frequency: 2480 MHz; Duty Cycle: 1:1.29033; PMF: 1
Medium: HSL2450 Medium parameters used: f = 2480 MHz; σ = 1.798 S/m; ε_r = 38.868; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2480 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.244 W/kg
Maximum value of SAR (interpolated) = 1.82 W/kg



0 dB = 1.82 W/kg = 2.60 dBW/kg

DTS RSDB Ant 1 + UNII RSDB MIMO

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Rear/802.11 b mode ch.6 RSDB SISO Ant1 10mm/Volume Scan:

Date/Time: 2020-11-10, Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450 Medium parameters used (interpolated): f = 2437 MHz; σ = 1.807 S/m; ε_r = 38.057; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

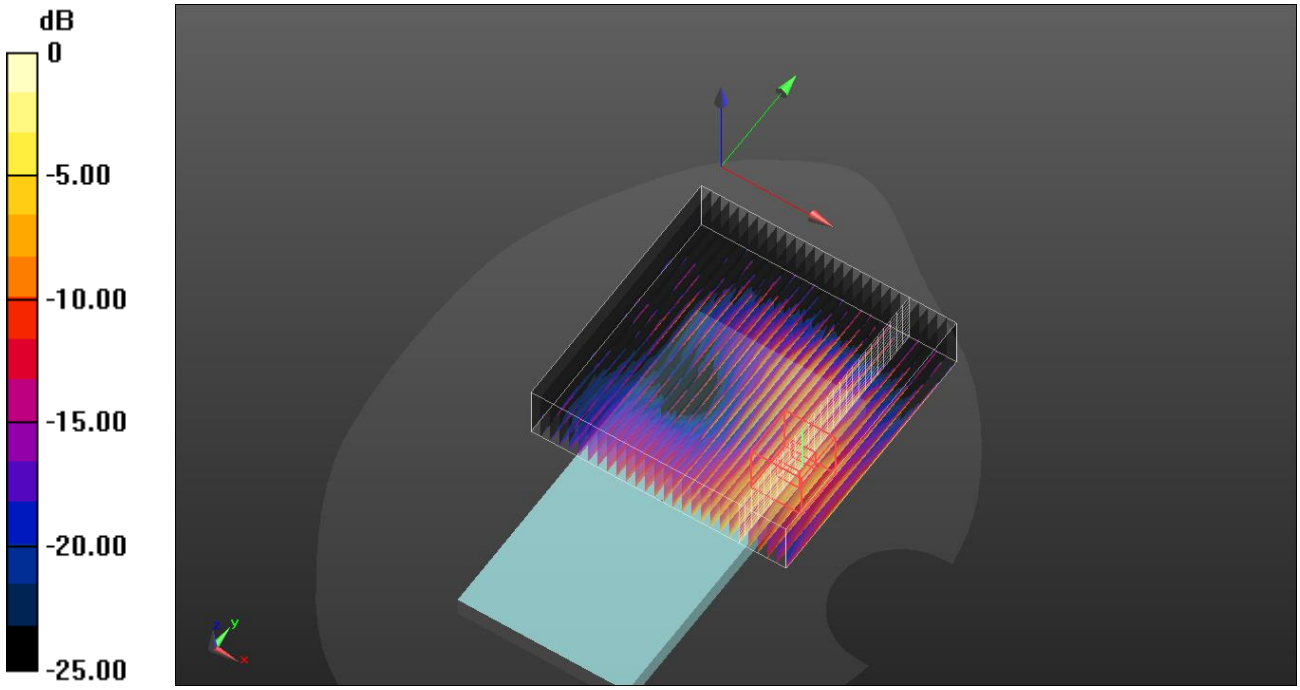
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Rear/802.11 ac mode ch.155 RSDB MIMO 10mm/Volume Scan:

Date/Time: 2020-11-11, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL5GHz Medium parameters used: f = 5775 MHz; σ = 5.134 S/m; ε_r = 34.46; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5775 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.162 W/kg
Maximum value of SAR (interpolated) = 1.10 W/kg



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

DTS RSDB Ant 2 + UNII RSDB MIMO

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Rear/802.11 b mode ch.1 RSDB SISO Ant2 10mm/Volume Scan:

Date/Time: 2020-11-12, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2412 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2.4GHz Medium parameters used (interpolated): f = 2412 MHz; σ = 1.743 S/m; ε_r = 38.964; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

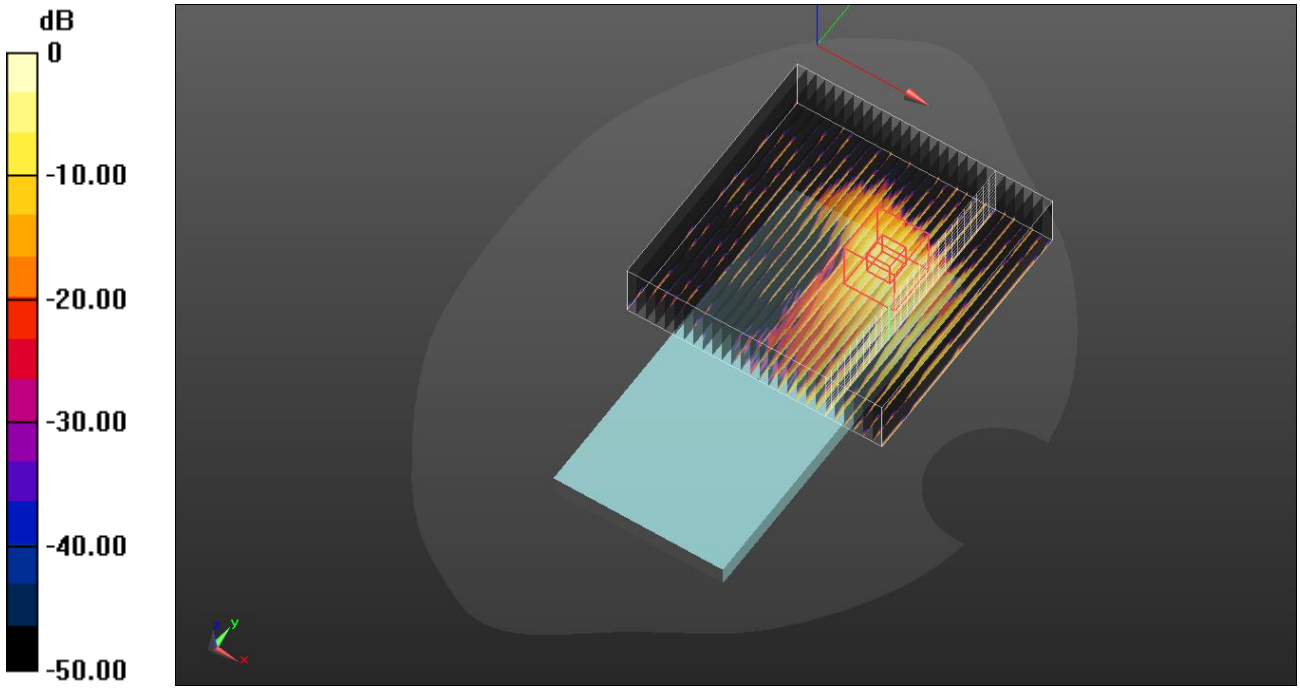
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2412 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Rear/802.11 ac mode ch.155 RSDB MIMO 10mm/Volume Scan:

Date/Time: 2020-11-11, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL5GHz Medium parameters used: f = 5775 MHz; σ = 5.134 S/m; ε_r = 34.46; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5775 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.106 W/kg
Maximum value of SAR (interpolated) = 0.840 W/kg



0 dB = 0.840 W/kg = -0.76 dBW/kg

DTS RSDB MIMO + UNII RSDB MIMO

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Rear/802.11 b mode ch.6 RSDB MIMO 10mm/Volume Scan:

Date/Time: 2020-11-12, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2.4GHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.762 S/m; ε_r = 38.945; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

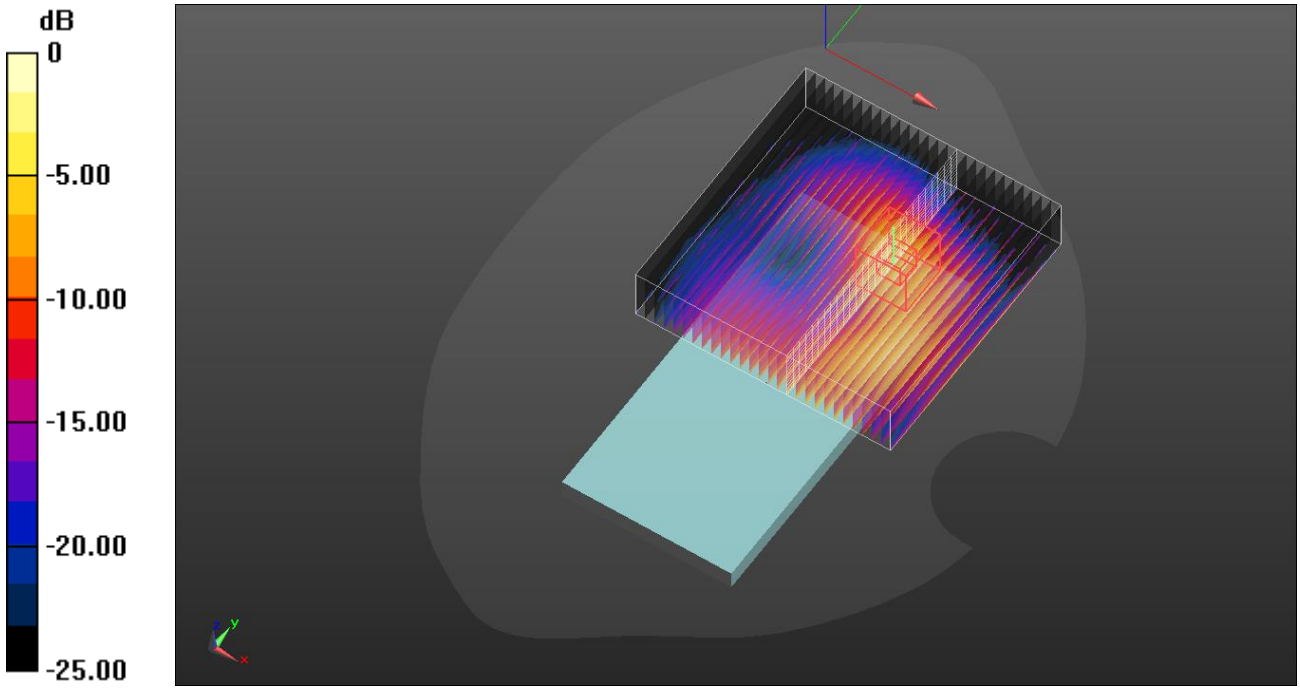
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Rear/802.11 ac mode ch.155 RSDB MIMO 10mm/Volume Scan:

Date/Time: 2020-11-11, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL5GHz Medium parameters used: f = 5775 MHz; σ = 5.134 S/m; ε_r = 34.46; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5775 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.255 W/kg
Maximum value of SAR (interpolated) = 1.46 W/kg



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

LTE Band 2 + NR Band n5

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Front/QPSK RB 1/49 ch.19100 10mm/Volume Scan:

Date/Time: 2020-11-10, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1900 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.435 S/m; ε_r = 38.945; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

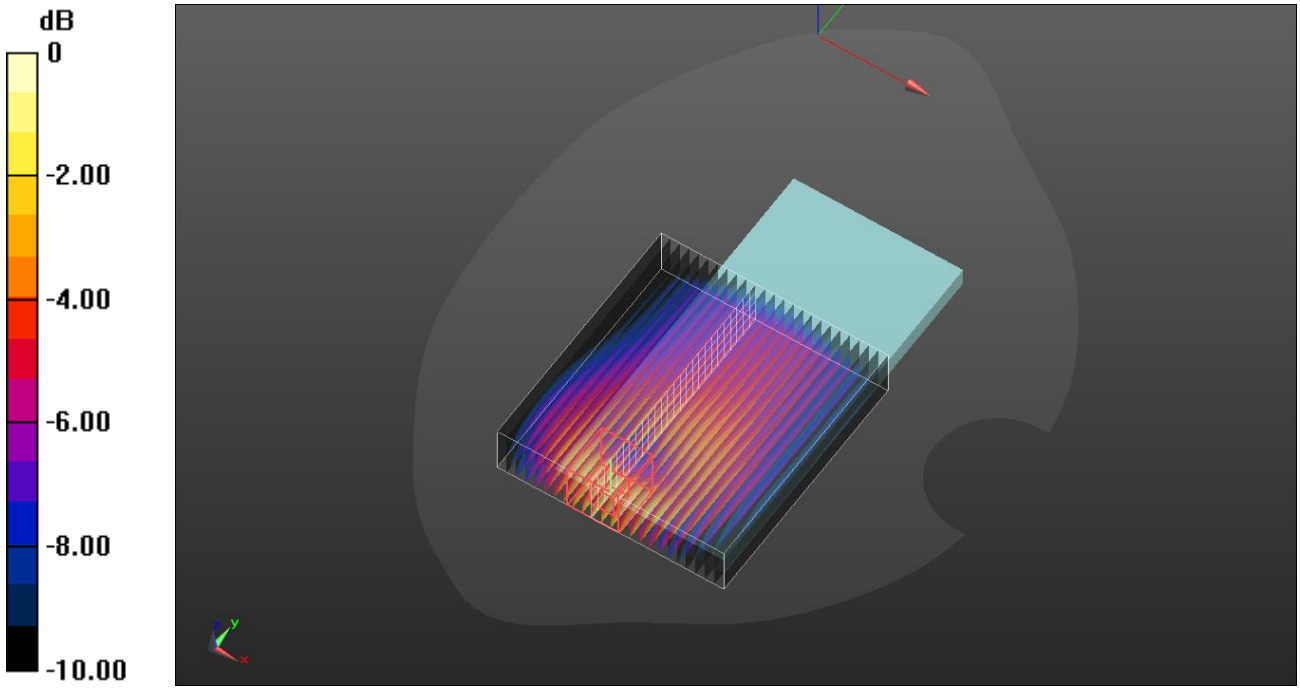
- Probe: EX3DV4 - SN7313; ConvF(8.36, 8.36, 8.36) @ 1900 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Front/QPSK RB 50/28 ch.167300 10mm/Volume Scan:

Date/Time: 2020-11-10, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.380 W/kg
Maximum value of SAR (interpolated) = 1.15 W/kg



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

LTE Band 5 + NR Band n66

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Front/QPSK RB 1/0 ch.20525 10mm/Volume Scan:

Date/Time: 2020-11-16, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL 835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.893 S/m; ε_r = 41.47; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

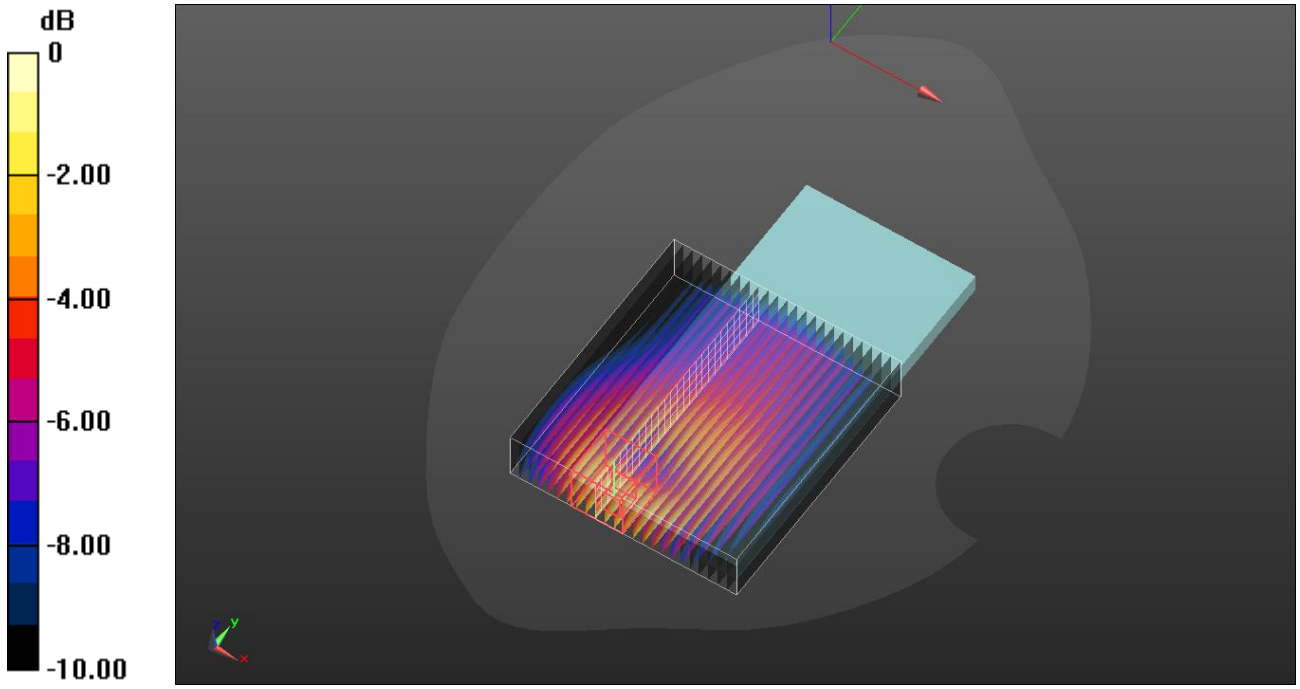
- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Front/QPSK RB1/53 ch.344000 10mm/Volume Scan:

Date/Time: 2020-11-16, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1720 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1700 Medium parameters used: f = 1720 MHz; σ = 1.326 S/m; ε_r = 39.572; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1720 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.558 W/kg
Maximum value of SAR (interpolated) = 1.60 W/kg



0 dB = 1.60 W/kg = 2.04 dBW/kg

LTE Band 66 + NR Band n5

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Front/QPSK RB 50/0 ch.132572 10mm/Volume Scan:

Date/Time: 2020-11-16, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1770 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1750 Medium parameters used: f = 1770 MHz; σ = 1.356 S/m; ε_r = 39.481; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

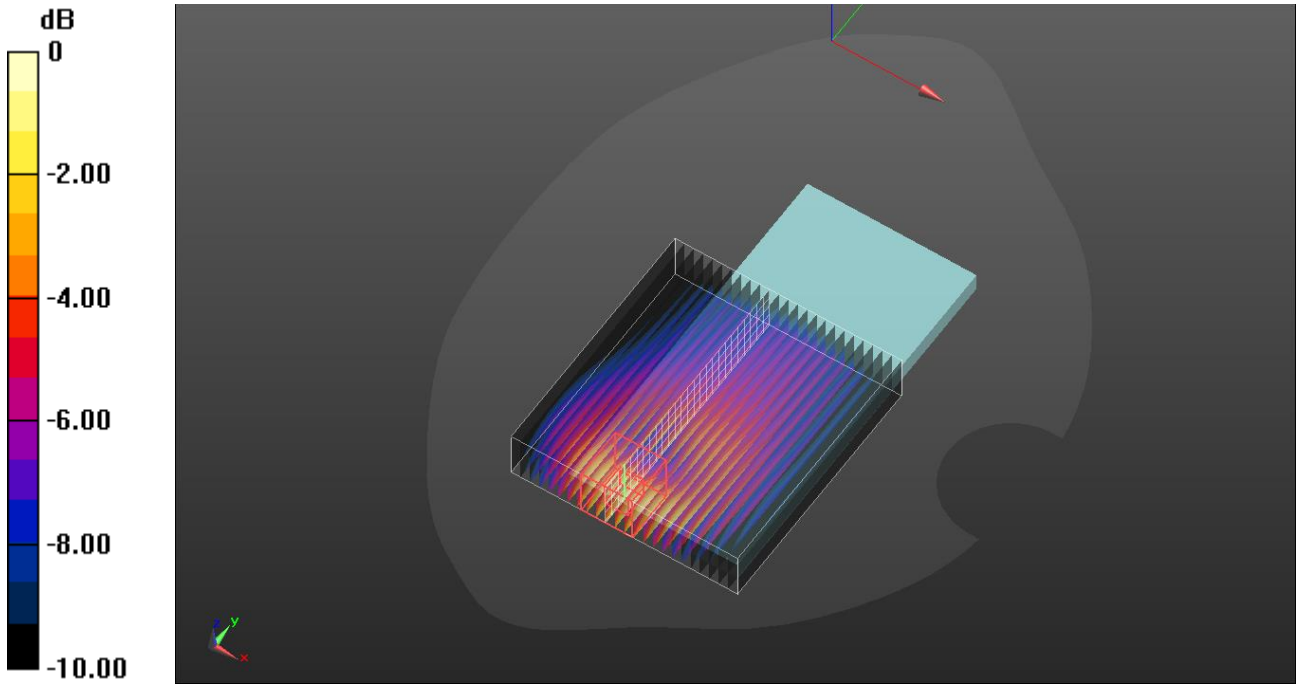
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1770 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Front/QPSK RB 50/28 ch.167300 10mm/Volume Scan:

Date/Time: 2020-11-10, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855 s
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.533 W/kg
Maximum value of SAR (interpolated) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

UNII MIMO + Bluetooth

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Front/802.11 a mode ch.149 MIMO 10mm/Volume Scan:

Date/Time: 2020-11-11, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5745 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL5GHz Medium parameters used (interpolated): f = 5745 MHz; σ = 5.1 S/m; ε_r = 34.53; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

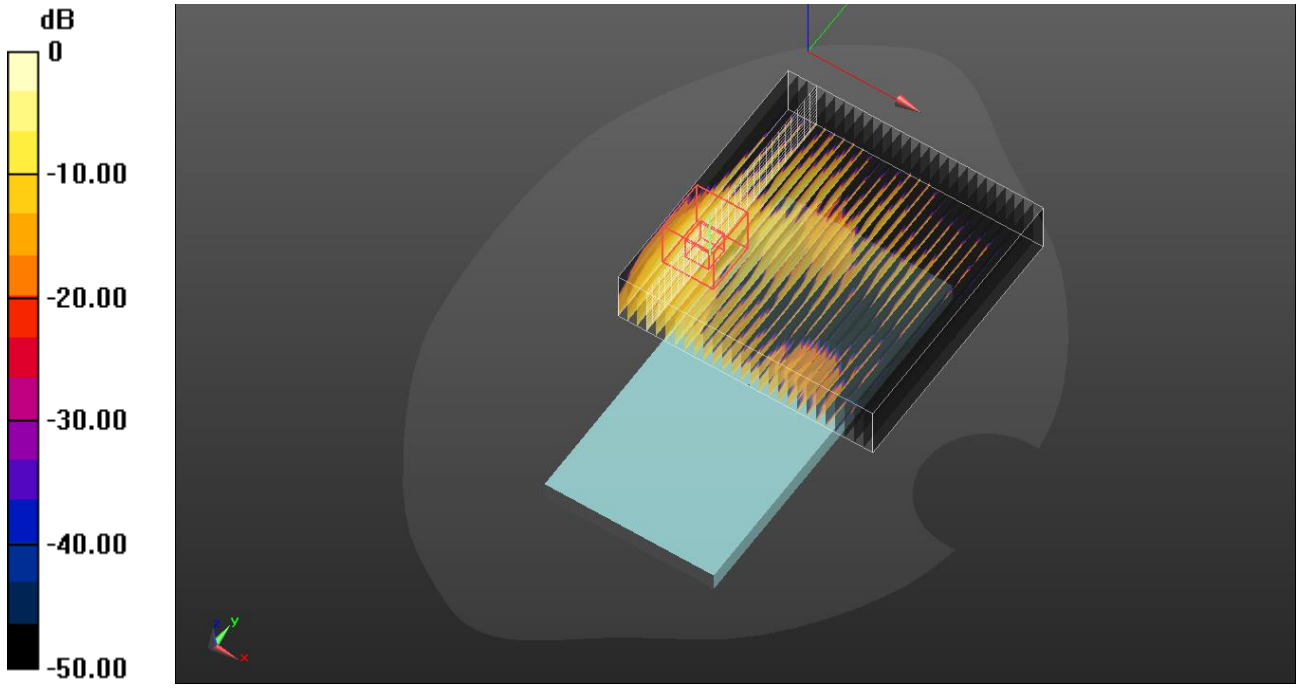
- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5745 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Front/Bluetooth GFSK ch.78 10mm/Volume Scan:

Date/Time: 2020-11-13, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, Bluetooth (DH5) (0); Frequency: 2480 MHz; Duty Cycle: 1:1.29033; PMF: 1
Medium: HSL2450 Medium parameters used: f = 2480 MHz; σ = 1.798 S/m; ε_r = 38.868; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2480 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.218 W/kg
Maximum value of SAR (interpolated) = 1.66 W/kg



0 dB = 1.66 W/kg = 2.20 dBW/kg

DTS RSDB MIMO + UNII RSDB MIMO

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Front/802.11 b mode ch.6 RSDB MIMO 10mm/Volume Scan:

Date/Time: 2020-11-16, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2.4GHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.806 S/m; ε_r = 38.215; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

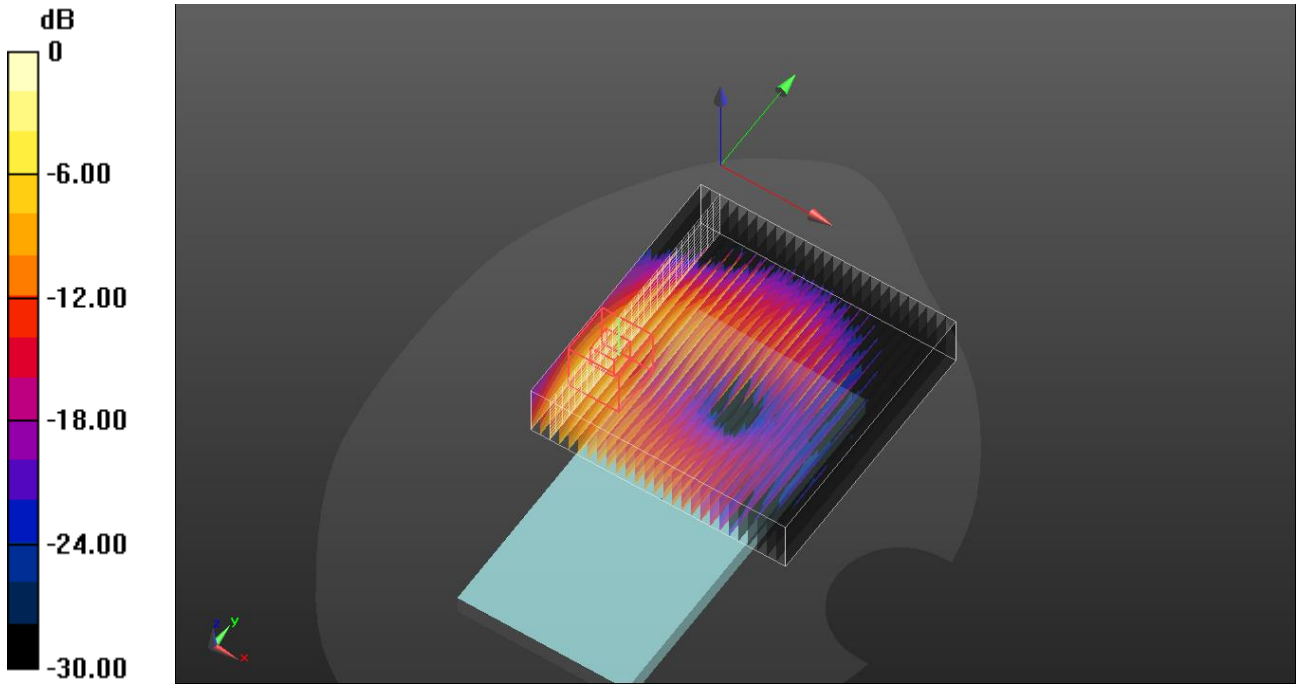
- Probe: EX3DV4 - SN7313; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Front/802.11 ac mode ch.155 RSDB MIMO 10mm/Volume Scan:

Date/Time: 2020-11-11, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL5GHz Medium parameters used: f = 5775 MHz; σ = 5.134 S/m; ε_r = 34.46; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(4.85, 4.85, 4.85) @ 5775 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.168 W/kg
Maximum value of SAR (interpolated) = 1.05 W/kg



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

LTE Band 2 + NR Band n5

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Edge 3/QPSK RB 1/0 ch.18900 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.42 S/m; ε_r = 38.968; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

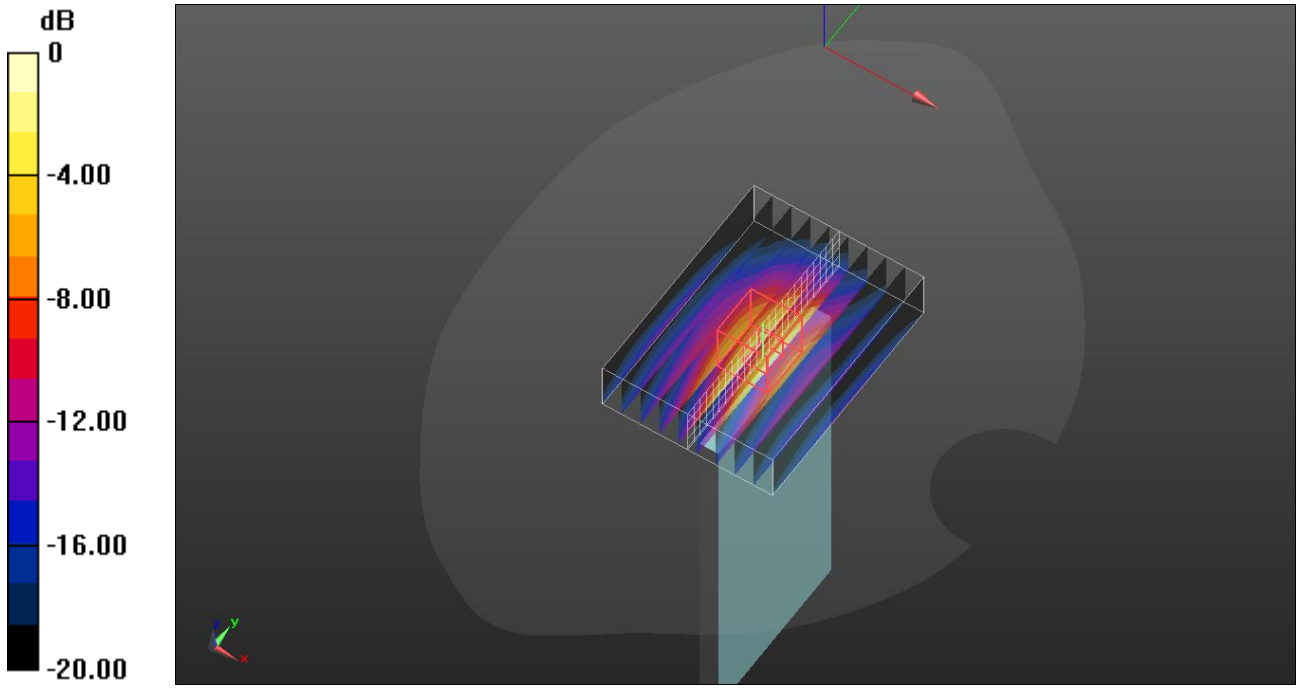
- Probe: EX3DV4 - SN7313; ConvF(8.36, 8.36, 8.36) @ 1880 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Edge 3/QPSK RB1/104 ch.167300 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.683 W/kg
Maximum value of SAR (interpolated) = 2.38 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg

LTE Band 66 + NR Band n5

Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Edge 3/QPSK RB 100/0 ch.132572 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 1770 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1700 Medium parameters used: f = 1770 MHz; σ = 1.353 S/m; ε_r = 39.012; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

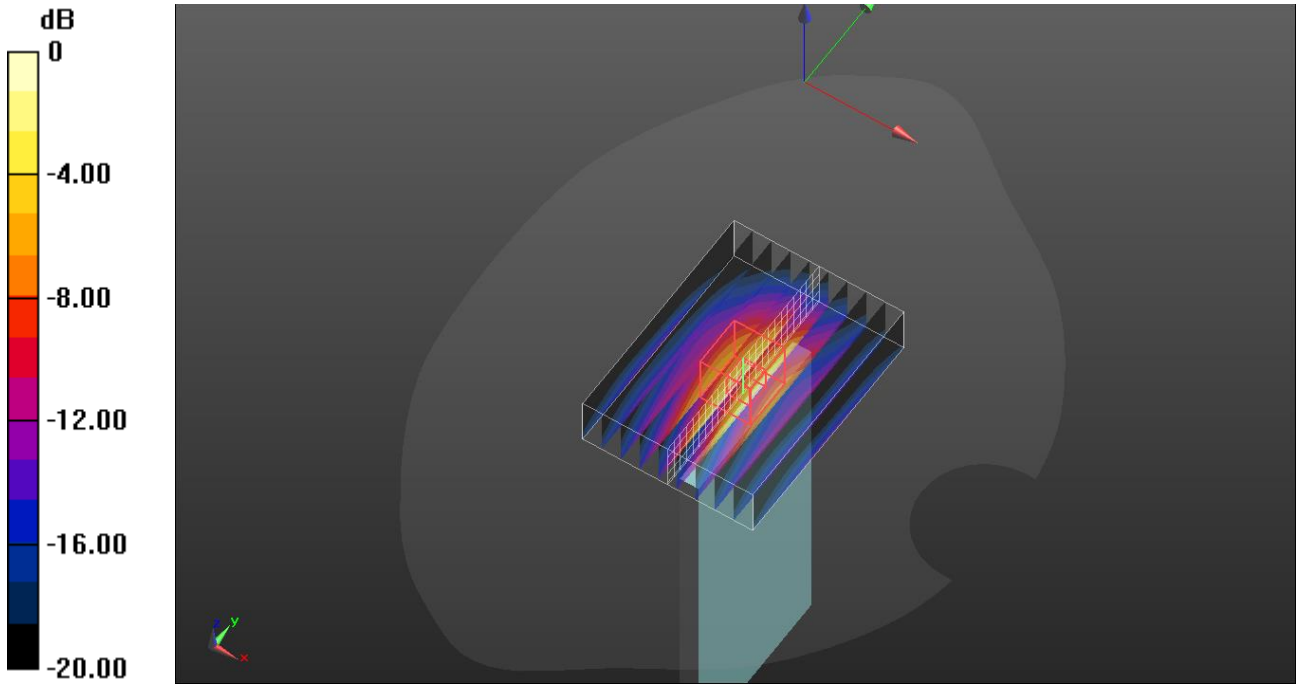
- Probe: EX3DV4 - SN7313; ConvF(8.64, 8.64, 8.64) @ 1770 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Edge 3/QPSK RB1/104 ch.167300 10mm/Volume Scan:

Date/Time: 2020-11-09, Test Laboratory: UL Korea, Ltd. Suwon Laboratory
Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.901 S/m; ε_r = 41.116; ρ = 1000 kg/m^3
Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7313; ConvF(9.57, 9.57, 9.57) @ 836.5 MHz; Calibrated: 2020-02-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1494; Calibrated: 2020-07-23
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.714 W/kg
Maximum value of SAR (interpolated) = 2.49 W/kg



0 dB = 2.49 W/kg = 3.96 dBW/kg