

Test Laboratory: Compliance Certification Services Inc.

## 80211b Bottom - BCM 943225HMB

**DUT: BCM 943225HMB; Type: WLAN+Bluetooth PCI-E MiniCard; Serial: n/a**

Communication System: IEEE 802.11b WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

### DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

### Bottom Low CH1/Area Scan (7x21x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.367 mW/g

### Bottom Low CH1/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.210 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.784 W/kg

SAR(1 g) = 0.335 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.487 mW/g

### Bottom Low CH1/Zoom Scan (7x7x9)/Cube 1:

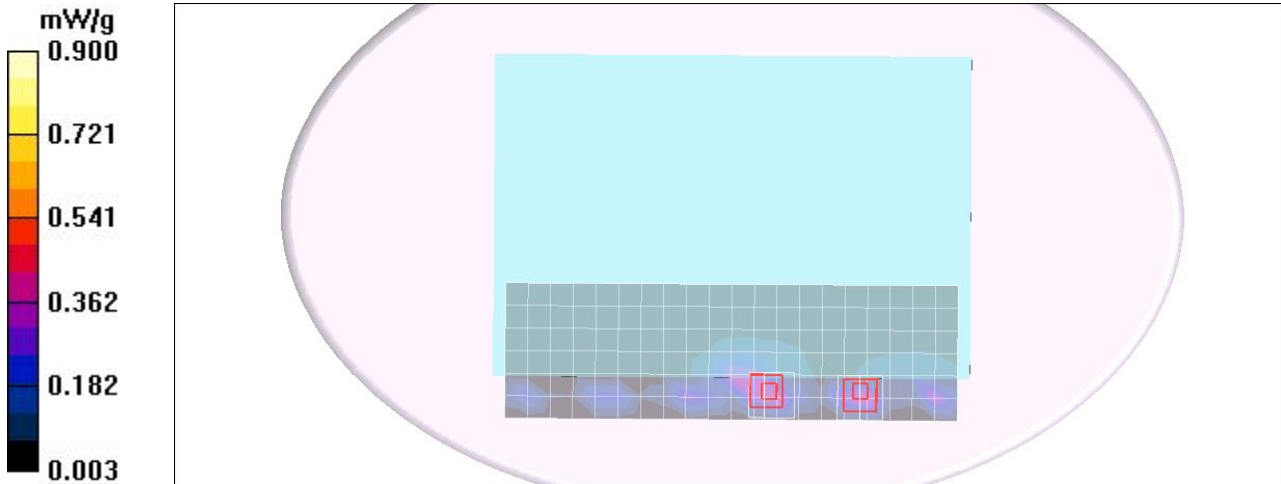
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.210 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.793 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.148 mW/g

Maximum value of SAR (measured) = 0.510 mW/g



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## 80211g Bottom - BCM 943225HMB

**DUT: BCM 943225HMB; Type: WLAN+Bluetooth PCI-E MiniCard; Serial: n/a**

Communication System: IEEE 802.11g WLAN; Frequency: 2442 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2442$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection) Sensor-Surface: 2.5mm (Fix Surface)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

**Bottom Middle CH7/Area Scan (6x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.525 mW/g

**Bottom Middle CH7/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.455 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 0.669 mW/g

**Bottom Middle CH7/Zoom Scan (7x7x9)/Cube 1:**

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.940 W/kg

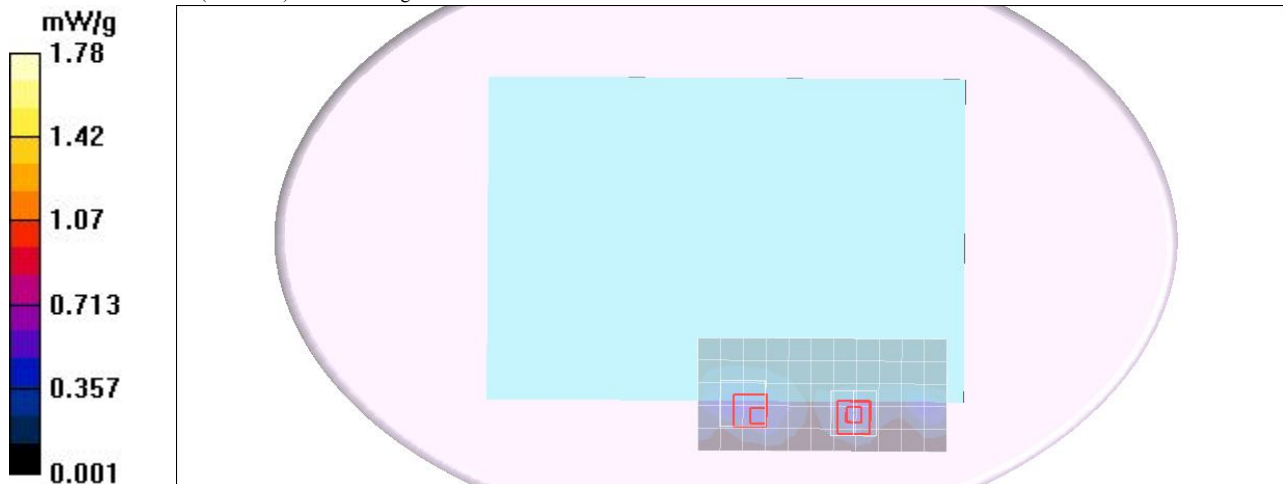
**SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.189 mW/g**

Maximum value of SAR (measured) = 0.568 mW/g

**Bottom Middle CH7/Z Scan (1x1x21):**

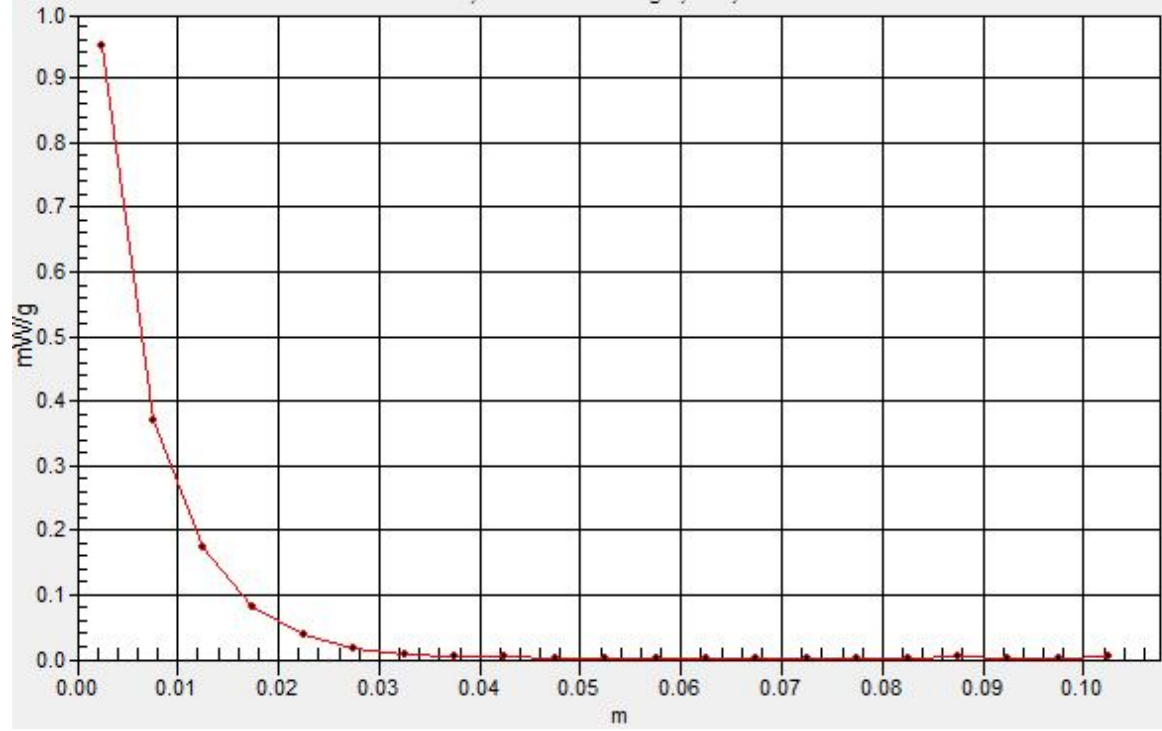
Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.950 mW/g



# SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



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## 80211n20 Bottom - BCM 943225HMB

**DUT: BCM 943225HMB; Type: WLAN+Bluetooth PCI-E MiniCard; Serial: n/a**

Communication System: IEEE 802.11g WLAN HT20; Frequency: 2442 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2442$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

**Bottom Middle CH7/Area Scan (6x12x1):** Measurement grid: dx=15mm, dy=15mm

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

**Bottom Middle CH7/Zoom Scan (7x7x9)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.409 W/kg

**SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.084 mW/g**

Maximum value of SAR (measured) = 0.280 mW/g

**Bottom Middle CH7/Zoom Scan (7x7x9)/Cube 1:**

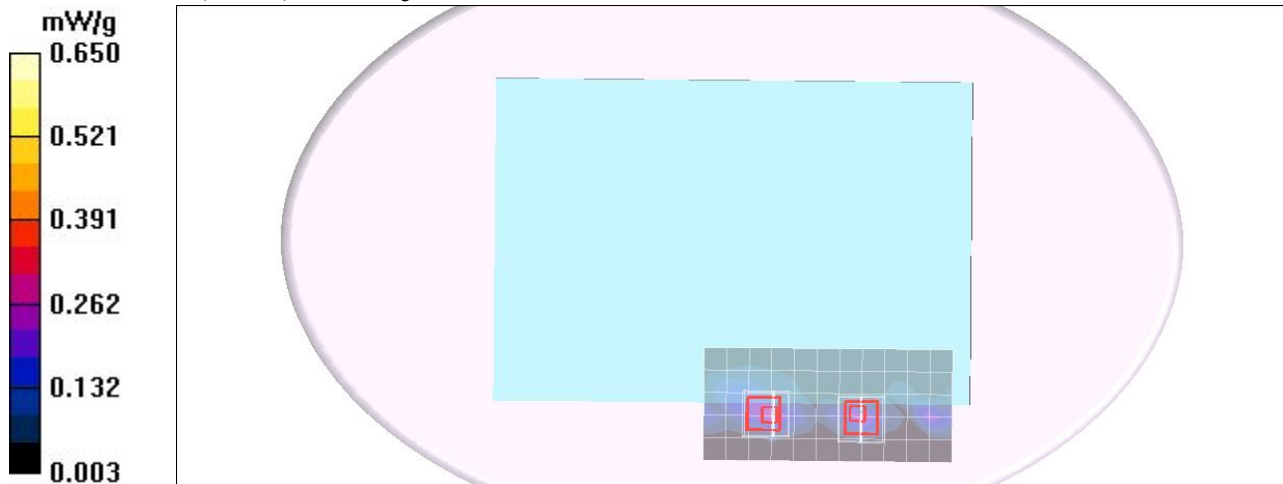
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.000 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.368 W/kg

**SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.076 mW/g**

Maximum value of SAR (measured) = 0.247 mW/g



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### 80211n40 Bottom - BCM 943225HMB

DUT: BCM 943225HMB; Type: WLAN+Bluetooth PCI-E MiniCard; Serial: n/a

Communication System: IEEE 802.11g WLAN HT40; Frequency: 2422 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2422$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY5, V5.0 Build 125; Postprocessing SW: SEMCAD, V1.8 Build 186

#### Bottom Low CH1/Area Scan (6x12x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.133 mW/g

#### Bottom Low CH1/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.484 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.210 W/kg

SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.040 mW/g

Maximum value of SAR (measured) = 0.128 mW/g

#### Bottom Low CH1/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.484 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.130 mW/g

