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Test Laboratory: Compliance Certification Services Inc.

Date: 3/4/2017

WIFI 802.11a-Body NB Bottom Main Antenna CH36

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band I; Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.388$ S/m; $\epsilon_r = 49.057$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(4.77, 4.77, 4.77); Calibrated: 7/27/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/26/2016
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Bottom Main Antenna CH36 /Area Scan (14x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0310 W/kg

WIFI/IEEE802.11a Body Bottom Main Antenna CH36 /Zoom Scan (7x7x7)/Cube 0: Measurement

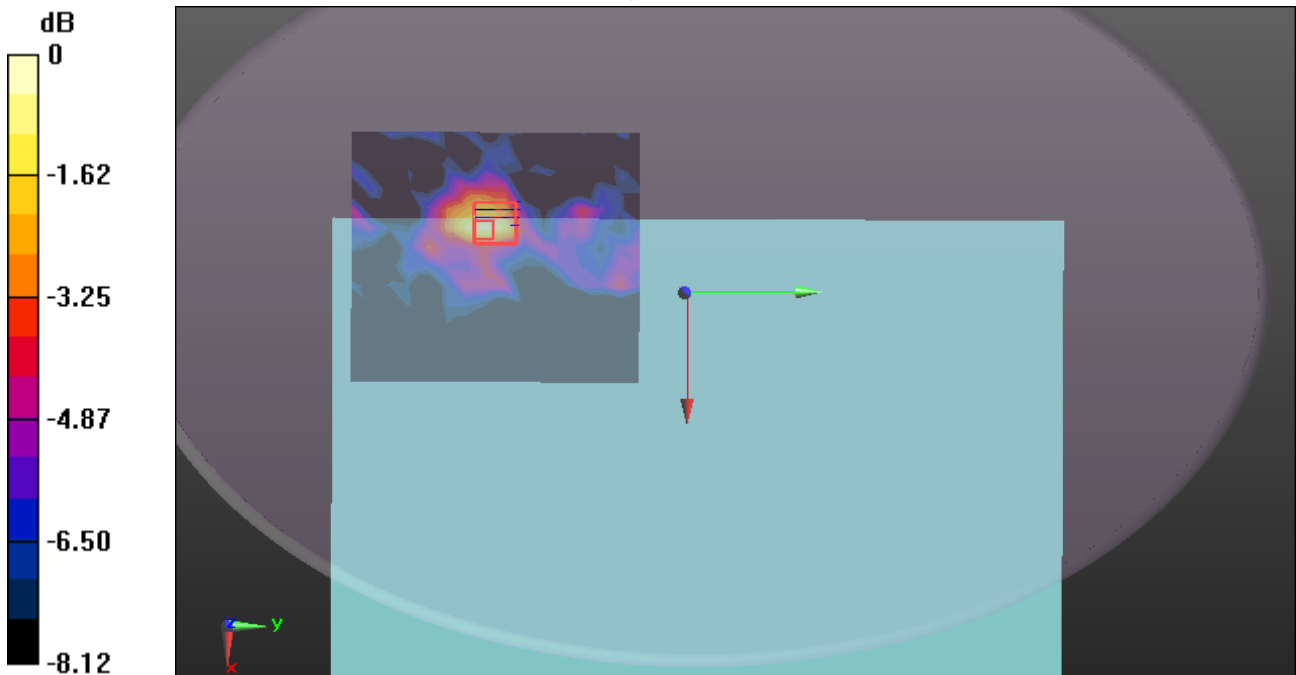
grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0.7120 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00708 W/kg

Maximum value of SAR (measured) = 0.0328 W/kg



0 dB = 0.0328 W/kg = -14.84 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 3/4/2017

WIFI 802.11a-Body NB Bottom Main Antenna CH40

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band I; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 49.044$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(4.77, 4.77, 4.77); Calibrated: 7/27/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/26/2016
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Bottom Main Antenna CH40 /Area Scan (14x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0519 W/kg

WIFI/IEEE802.11a Body Bottom Main Antenna CH40 /Zoom Scan (7x7x7)/Cube 0: Measurement

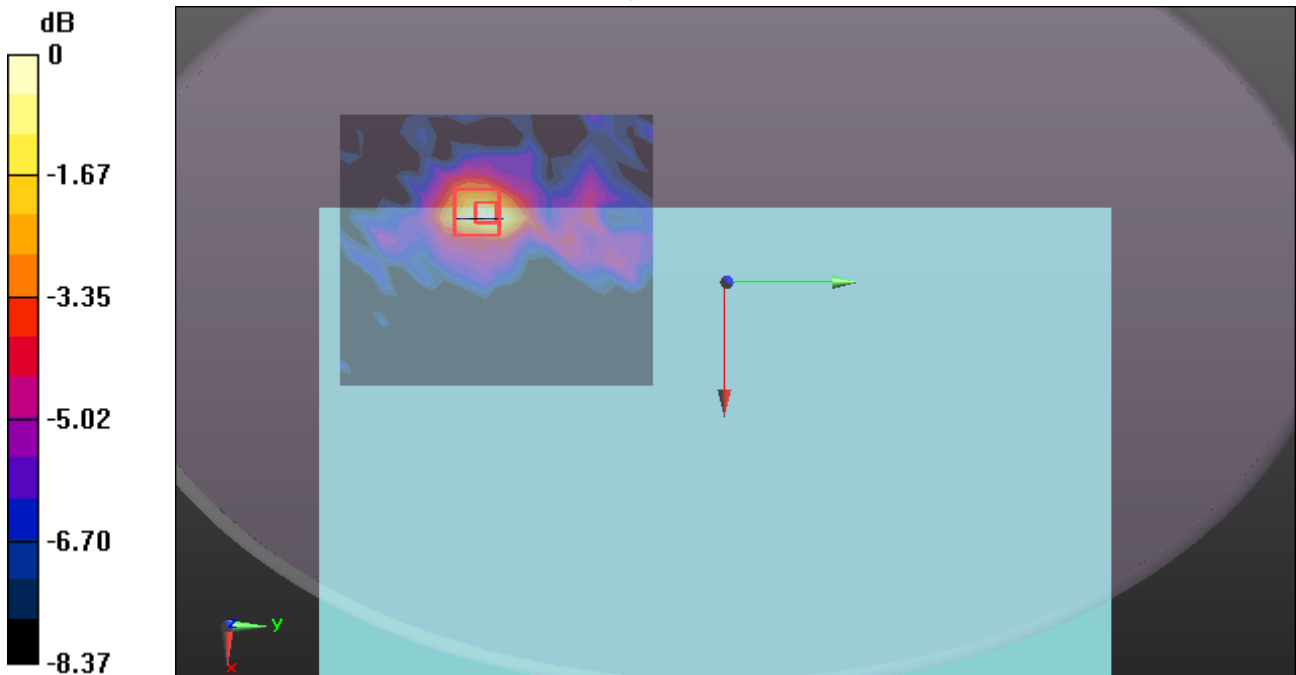
grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 1.245 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0800 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0465 W/kg



0 dB = 0.0465 W/kg = -13.33 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 3/4/2017

WIFI 802.11a-Body NB Bottom Main Antenna CH48

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band I; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 5.458$ S/m; $\epsilon_r = 49.048$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(4.77, 4.77, 4.77); Calibrated: 7/27/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/26/2016
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Bottom Main Antenna CH48 /Area Scan (14x16x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.0647 W/kg

WIFI/IEEE802.11a Body Bottom Main Antenna CH48 /Zoom Scan (7x7x7)/Cube 0: Measurement

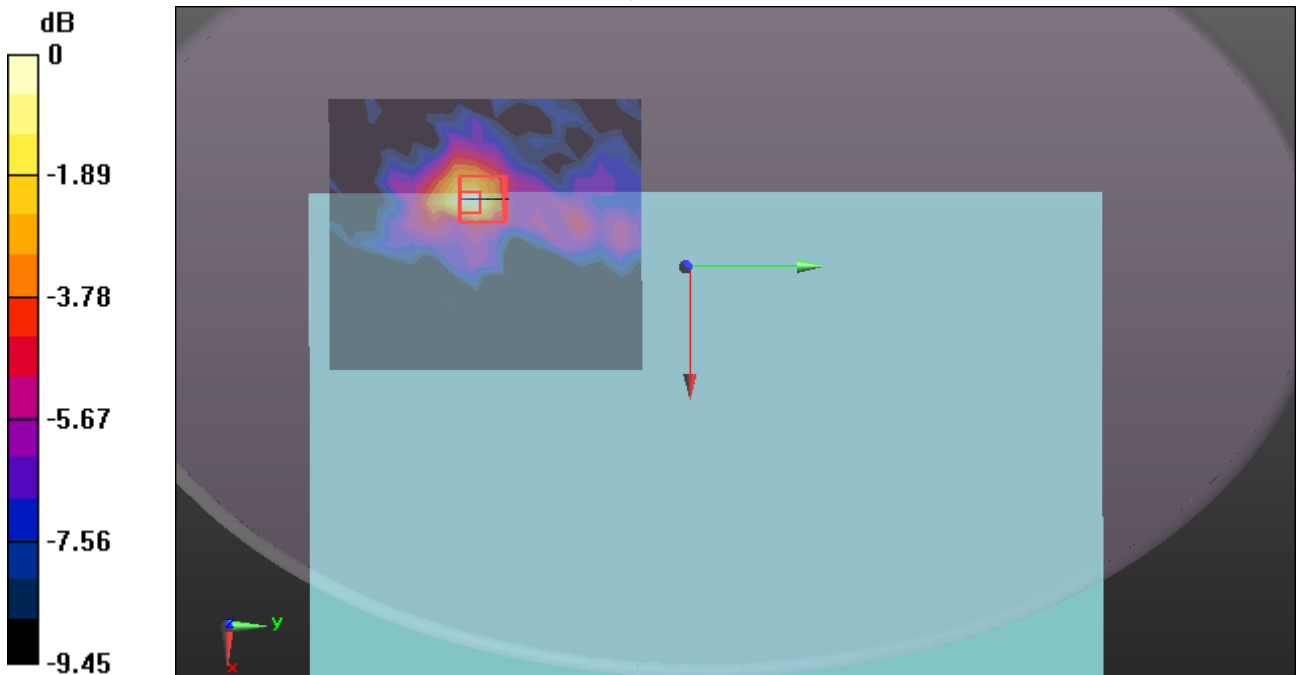
grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0.6280 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.014 W/kg

Maximum value of SAR (measured) = 0.0592 W/kg



0 dB = 0.0592 W/kg = -12.28 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 3/4/2017

WIFI 802.11a-Body NB Bottom Main Antenna CH149

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV;

Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.119 \text{ S/m}$; $\epsilon_r = 47.957$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(4.34, 4.34, 4.34); Calibrated: 7/27/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/26/2016
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Bottom Main Antenna CH149 /Area Scan (14x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0530 W/kg

WIFI/IEEE802.11a Body Bottom Main Antenna CH149 /Zoom Scan (7x7x7)/Cube 0: Measurement

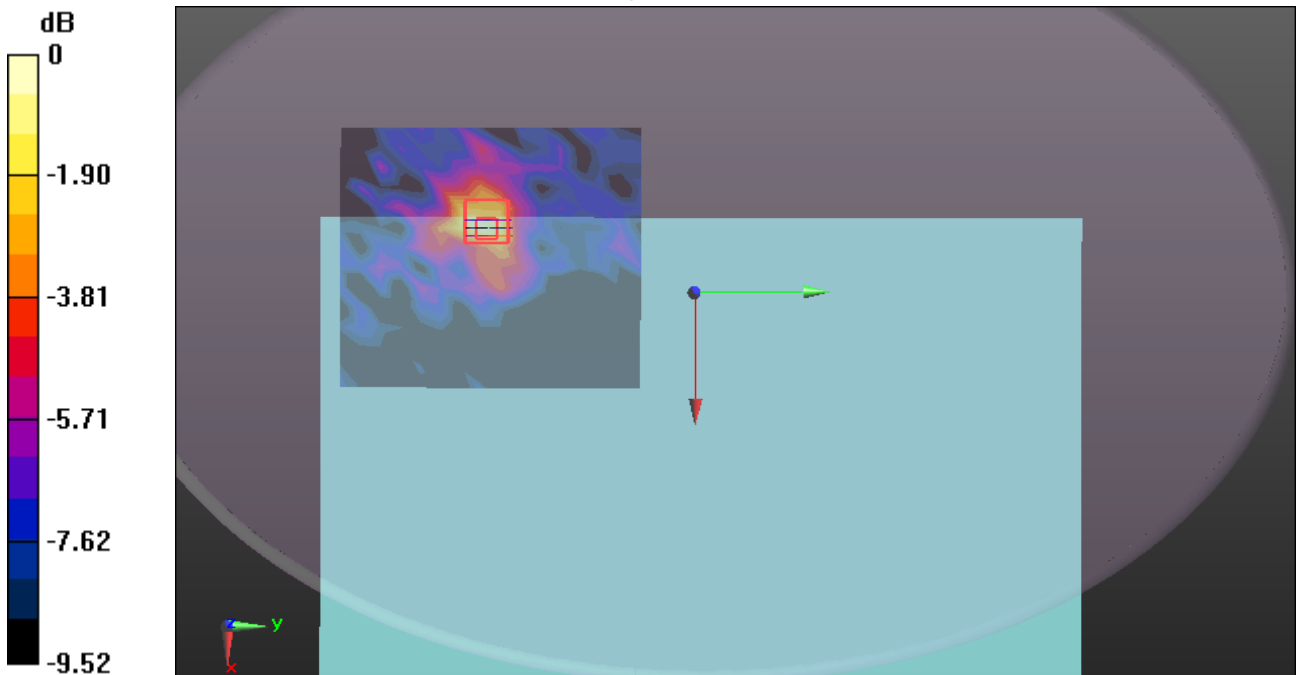
grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 0.9140 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0980 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.014 W/kg

Maximum value of SAR (measured) = 0.0526 W/kg



0 dB = 0.0526 W/kg = -12.79 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 3/4/2017

WIFI 802.11a-Body NB Bottom Main Antenna CH157

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV;

Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 6.15$ S/m; $\epsilon_r = 48.099$; $\rho = 1000$ kg/m³

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(4.34, 4.34, 4.34); Calibrated: 7/27/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/26/2016
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Bottom Main Antenna CH157 /Area Scan (14x16x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0421 W/kg

WIFI/IEEE802.11a Body Bottom Main Antenna CH157 /Zoom Scan (7x7x7)/Cube 0: Measurement

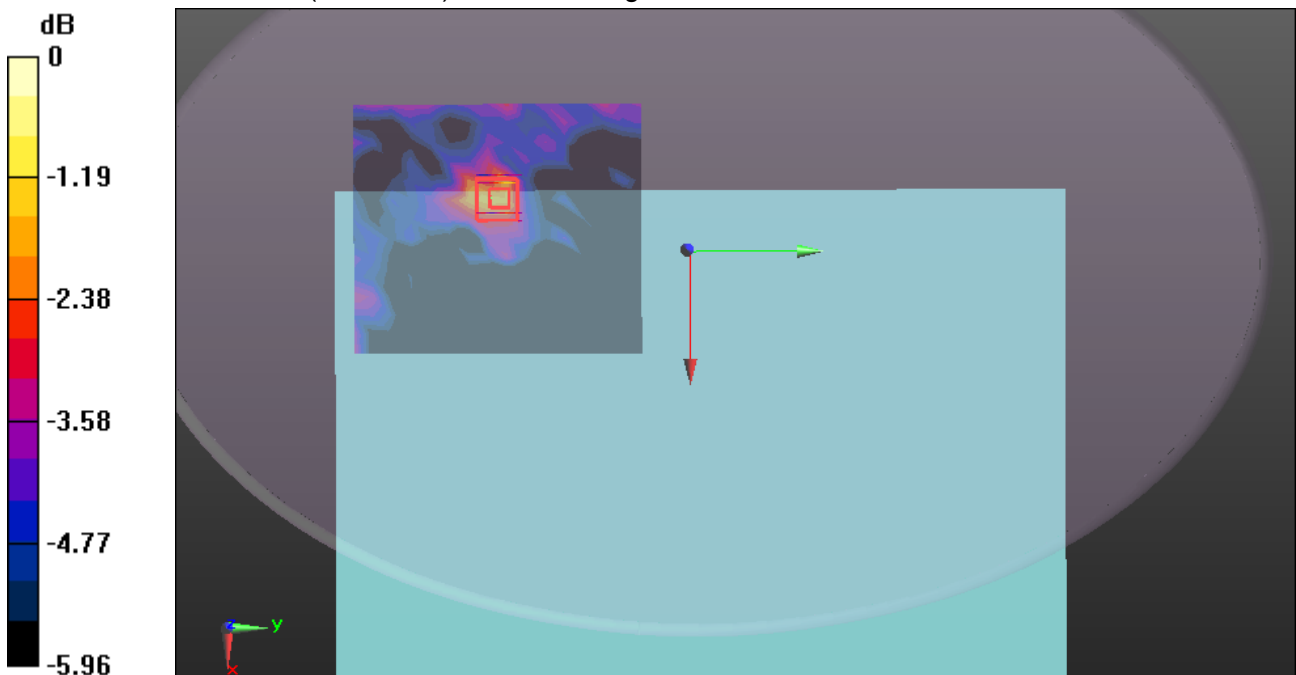
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.053 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0567 W/kg



0 dB = 0.0567 W/kg = -12.46 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 3/4/2017

WIFI 802.11a-Body NB Bottom Main Antenna CH165

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV;

Frequency: 5825 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.164 \text{ S/m}$; $\epsilon_r = 47.916$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

Measurement Standard: DASy5 (IEEE/IEC/ANSI C63.19-2007)

DASy Configuration:

- Probe: EX3DV4 - SN3798; ConvF(4.34, 4.34, 4.34); Calibrated: 7/27/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/26/2016
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASy52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Bottom Main Antenna CH165 /Area Scan (14x16x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0534 W/kg

WIFI/IEEE802.11a Body Bottom Main Antenna CH165 /Zoom Scan (7x7x7)/Cube 0: Measurement

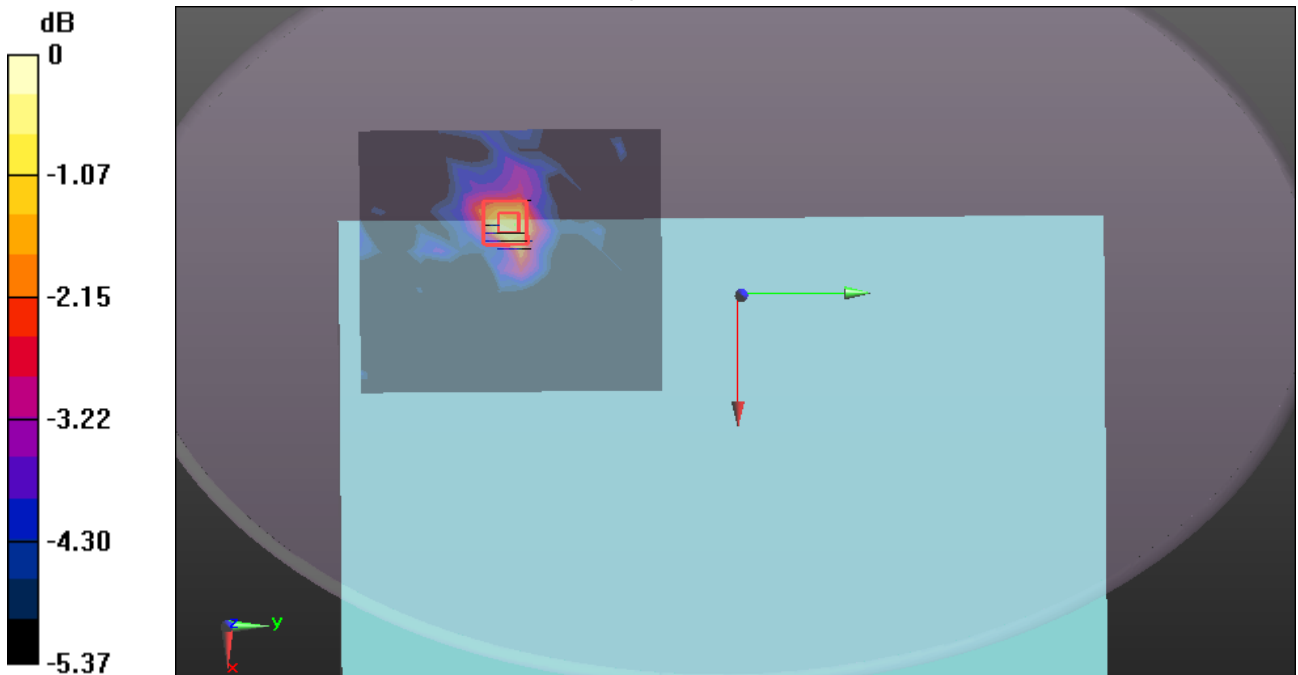
grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 0.6650 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.146 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.024 W/kg

Maximum value of SAR (measured) = 0.0593 W/kg



0 dB = 0.0593 W/kg = -12.27 dBW/kg