

Validation Report for Head TSL of 5.2GHz

Test Laboratory: BTL Inc. Date: 2020/11/28

System Check_H5200_1128

DUT: Dipole D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.514$ S/m; $\epsilon_r = 35.539$; $\rho = 1000$ kg/m³
 Ambient Temperature: 23.1 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.56, 5.56, 5.56) @ 5200 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left v5.0; Type: Twin SAM; Serial: TP:1896
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (measured) = 14.4 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 70.19 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 37.0 W/kg
SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.2 W/kg
 Maximum value of SAR (measured) = 20.0 W/kg

Validation Report for Head TSL of 5.3GHz

Test Laboratory: BTL Inc. Date: 2020/11/28

System Check_H5300_1128

DUT: Dipole D5GHzV2;

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 5300$ MHz; $\sigma = 4.62$ S/m; $\epsilon_r = 35.321$; $\rho = 1000$ kg/m³
 Ambient Temperature: 23.1 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.25, 5.25, 5.25) @ 5300 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left v5.0; Type: Twin SAM; Serial: TP:1896
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (measured) = 4.69 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 40.80 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 39.8 W/kg
SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.15 W/kg
 Maximum value of SAR (measured) = 7.54 W/kg

Validation Report for Head TSL of 5.6GHz

Validation Report for Head TSL of 5.8GHz

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System Check_H5600_1128

System Check_H5800_1128

DUT: Dipole D5GHzV2;

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Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.156$ S/m; $\epsilon_r = 35.266$; $\rho = 1000$ kg/m³
 Ambient Temperature : 23.1 °C; Liquid Temperature : 22.3 °C

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.19$ S/m; $\epsilon_r = 34.169$; $\rho = 1000$ kg/m³
 Ambient Temperature : 23.1 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

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- Probe: EX3DV4 - SN7544; ConvF(4.82, 4.82, 4.82) @ 5600 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left v5.0; Type: Twin SAM; Serial: TP:1896
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

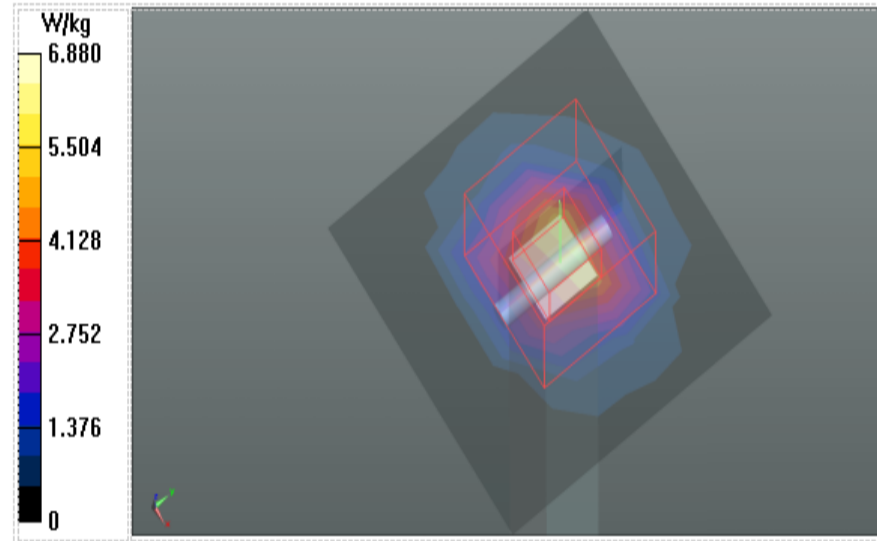
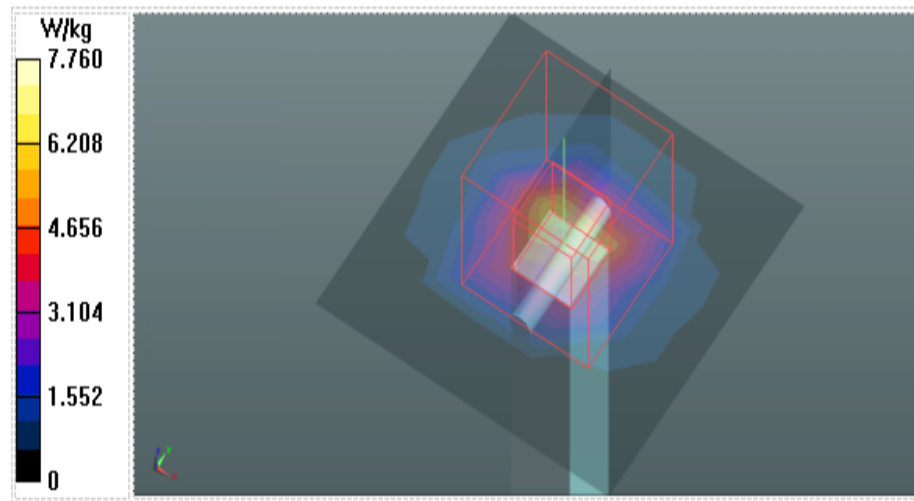
- Probe: EX3DV4 - SN7544; ConvF(4.8, 4.8, 4.8) @ 5800 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left v5.0; Type: Twin SAM; Serial: TP:1896
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (measured) = 5.67 W/kg

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (measured) = 4.95 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 38.73 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 44.9 W/kg
 SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.3 W/kg
 Maximum value of SAR (measured) = 7.76 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 35.90 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 42.9 W/kg
 SAR(1 g) = 7.48 W/kg; SAR(10 g) = 2.12 W/kg
 Maximum value of SAR (measured) = 6.88 W/kg



Calibrator:

Seven Liu

Approver:

Herbert Liu