

Annex C. Test System Plots

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1. DTS - 802.11b, CH6, Main Antenna – Back Face

Test Laboratory: Intel; Date/Time: 2016/09/14 4:00:51 PM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

Communication System: UID 0, 802.11 (0); Communication System Band: 2.4GHz; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 51.181$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(7.25, 7.25, 7.25); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 33.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASYS 52.8.8(1258);

DTS - 802.11b – Ch6 - 2437MHz - Back Face - Main/Area Scan (61x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.511 W/kg

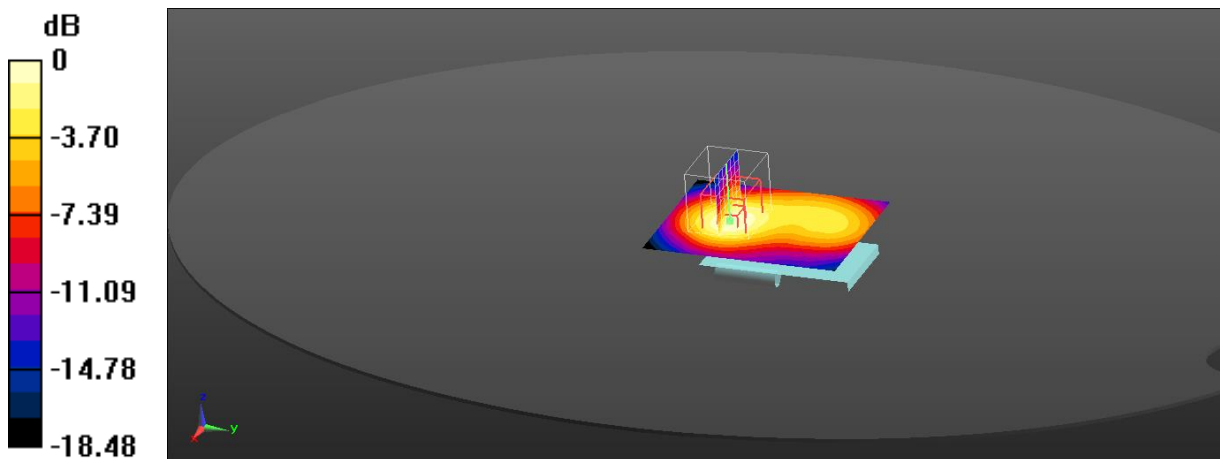
DTS - 802.11b – Ch6 - 2437MHz - Back Face - Main/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.89 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.245 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.500 W/kg



0 dB = 0.500 W/kg = -3.01 dBW/kg

2. DTS - 802.11g, CH6, Aux Antenna – Back Face

Test Laboratory: Intel; Date/Time: 2016/09/14 3:20:36 PM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

Communication System: UID 0, 802.11 (0); Communication System Band: 2.4GHz; Frequency: 2437 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 51.181$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(7.25, 7.25, 7.25); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 33.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/2016
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASYS52 52.8.8(1258);

DTS - 802.11g – Ch6 - 2437MHz - Back Face - Aux/Area Scan (61x81x1): Interpolated grid:
 $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.512 W/kg

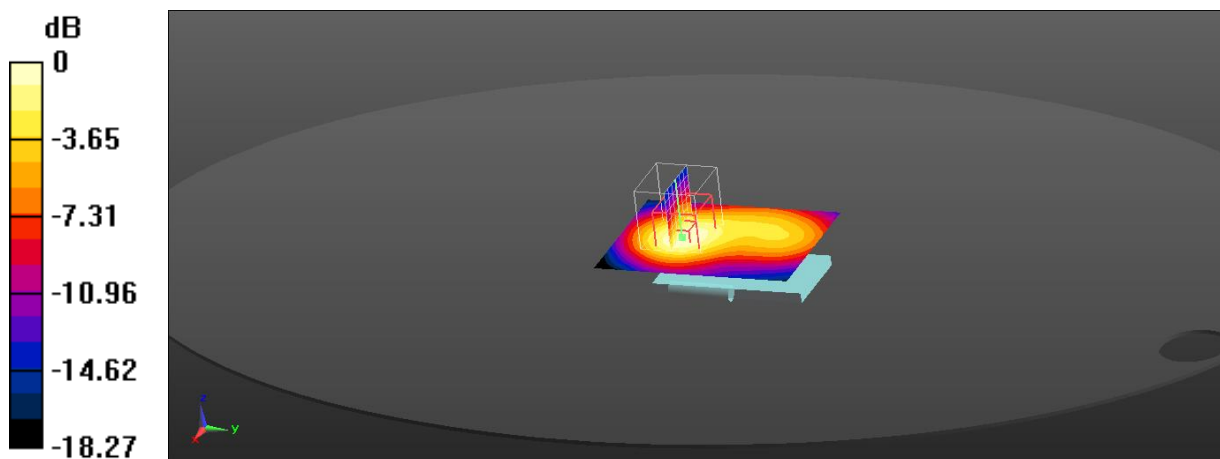
DTS - 802.11g – Ch6 - 2437MHz - Back Face - Aux/Zoom Scan (7x7x7)/Cube 0: Measurement grid:
 $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.84 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.245 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.499 W/kg



0 dB = 0.499 W/kg = -3.02 dBW/kg

3. UNII-2A - 802.11n40, CH54, Main Antenna – Left Edge

Test Laboratory: Intel; Date/Time: 2016/09/09 4:59:49 PM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

Communication System: UID 0, 802.11 (0); Communication System Band: 5GHz; Frequency: 5270 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 5.369 \text{ S/m}$; $\epsilon_r = 46.23$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2011)

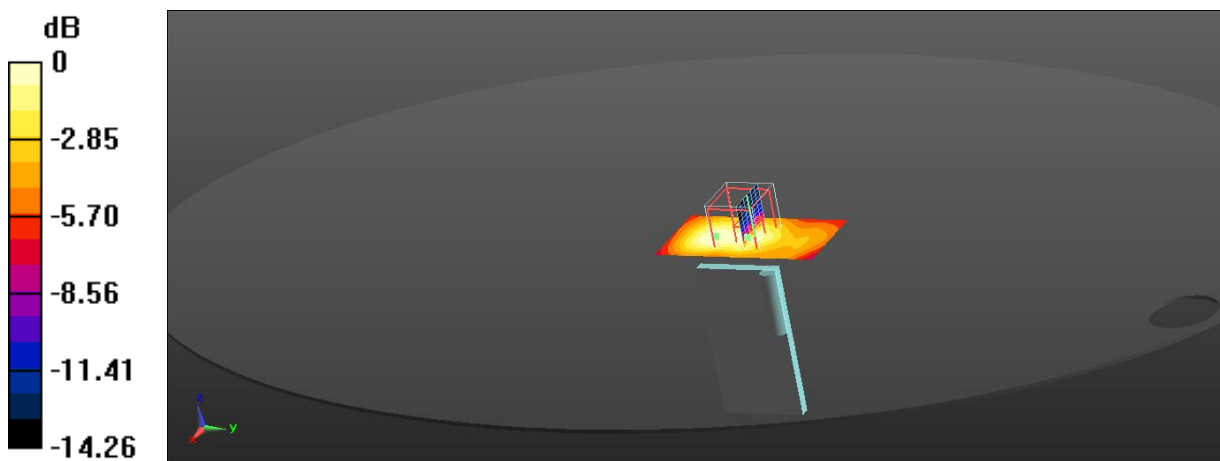
DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(4.12, 4.12, 4.12); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -9.0, 27.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASYS52 52.8.8(1258);

UNII-2A - 802.11n40 - Ch54 -5270MHz - Left Edge - Main /Area Scan (41x81x1): Interpolated grid:
 $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
 Maximum value of SAR (interpolated) = 1.14 W/kg

UNII-2A - 802.11n40 - Ch54 -5270MHz - Left Edge - Main /Zoom Scan (7x7x12)/Cube 0:
 Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
 Reference Value = 11.07 V/m; Power Drift = -0.07 dB
 Peak SAR (extrapolated) = 2.17 W/kg
SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.298 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

4. UNII-2A - 802.11n40, CH54, Aux Antenna – Left Edge

Test Laboratory: Intel; Date/Time: 2016/09/09 10:27:22 AM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

Communication System: UID 0, 802.11 (0); Communication System Band: 5GHz; Frequency: 5270 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5270$ MHz; $\sigma = 5.369$ S/m; $\epsilon_r = 46.23$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

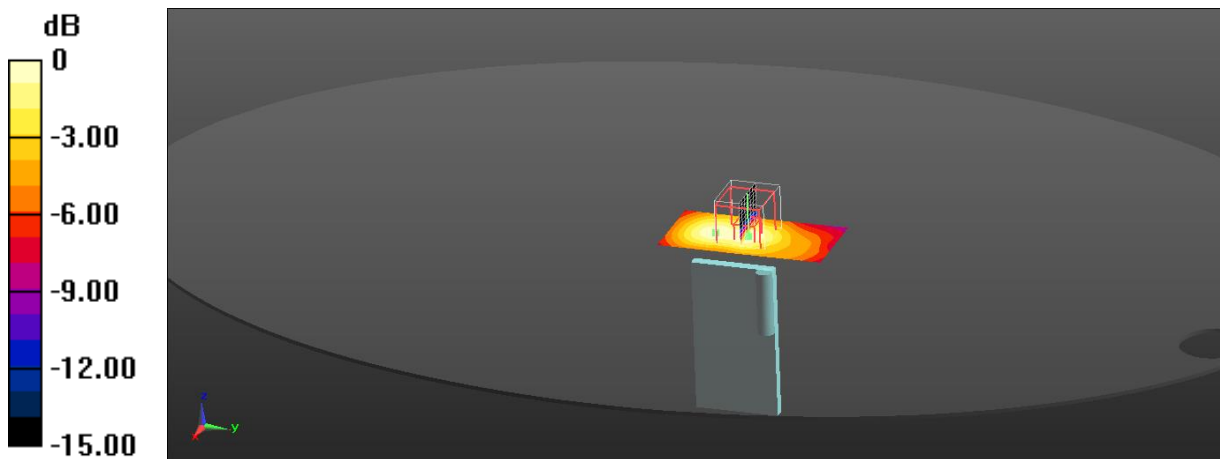
DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(4.12, 4.12, 4.12); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -9.0, 27.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASY52 52.8.8(1258);

UNII-2A - 802.11n40 - Ch54 -5270MHz - Left Edge - Aux /Area Scan (41x81x1): Interpolated grid:
 $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 1.07 W/kg

UNII-2A - 802.11n40 - Ch54 -5270MHz - Left Edge - Aux /Zoom Scan (7x7x12)/Cube 0:
 Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 10.41 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 1.92 W/kg
SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.231 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.24 dBW/kg

5. UNII-2C - 802.11n40, CH126, Main Antenna – Left Edge

Test Laboratory: Intel; Date/Time: 2016/10/20 7:00:53 PM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

Communication System: UID 0, 802.11 (0); Communication System Band: 5GHz; Frequency: 5630 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5630$ MHz; $\sigma = 5.875$ S/m; $\epsilon_r = 44.162$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2011)

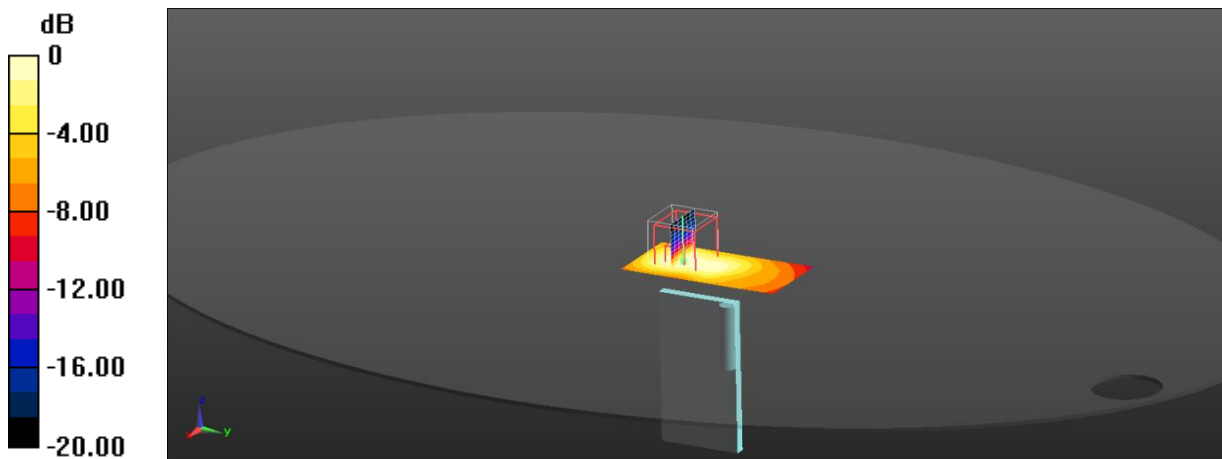
DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(3.62, 3.62, 3.62); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -9.0, 27.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASYS52 52.8.8(1258);

UNII-2C - 802.11n40 - Ch126 -5630MHz - Left Edge - Main /Area Scan (51x81x1): Interpolated grid:
 $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 0.890 W/kg

UNII-2C - 802.11n40 - Ch126 -5630MHz - Left Edge - Main /Zoom Scan (7x7x12)/Cube 0:
 Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 8.798 V/m; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.204 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.868 W/kg



0 dB = 0.868 W/kg = -0.61 dBW/kg

6. UNII-2C - 802.11n40, CH126, Aux Antenna – Left Edge

Test Laboratory: Intel; Date/Time: 2016/10/20 11:18:26 AM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

Communication System: UID 0, 802.11 (0); Communication System Band: 5GHz; Frequency: 5630 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5630$ MHz; $\sigma = 5.875$ S/m; $\epsilon_r = 44.162$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(3.62, 3.62, 3.62); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -9.0, 27.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASYS5 52.8.8(1258);

UNII-2C - 802.11n40 - Ch126 -5630MHz - Left Edge - Aux /Area Scan (41x81x1): Interpolated grid:

$dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.13 W/kg

UNII-2C - 802.11n40 - Ch126 -5630MHz - Left Edge - Aux /Zoom Scan (9x9x12)/Cube 0:

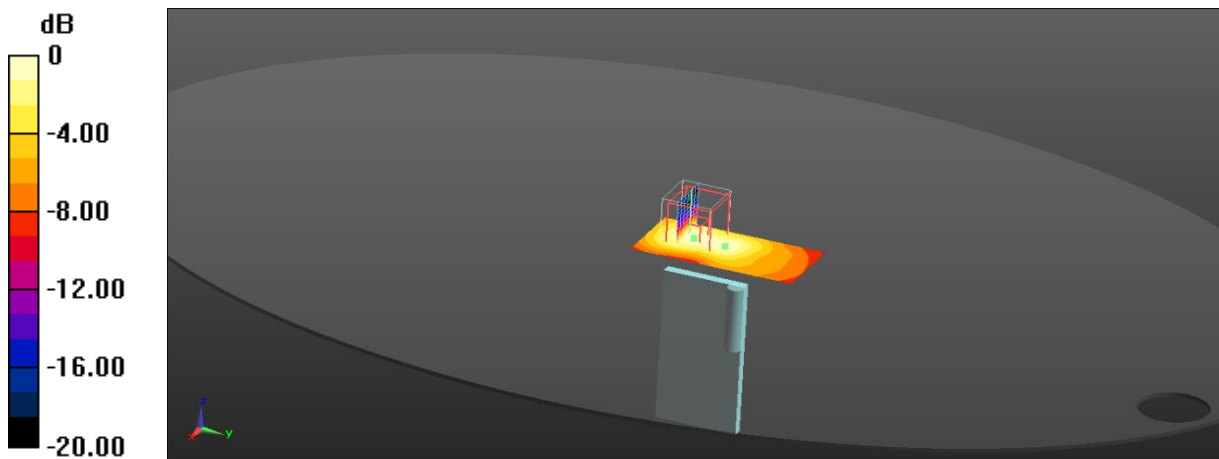
Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 9.380 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.192 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.15 W/kg



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

7. UNII-3 - 802.11n40, CH159, Main Antenna – Front Face

Test Laboratory: Intel; Date/Time: 2016/09/09 3:12:45 PM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

Communication System: UID 0, 802.11 (0); Communication System Band: 5GHz; Frequency: 5795 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5795$ MHz; $\sigma = 6.097$ S/m; $\epsilon_r = 45.24$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

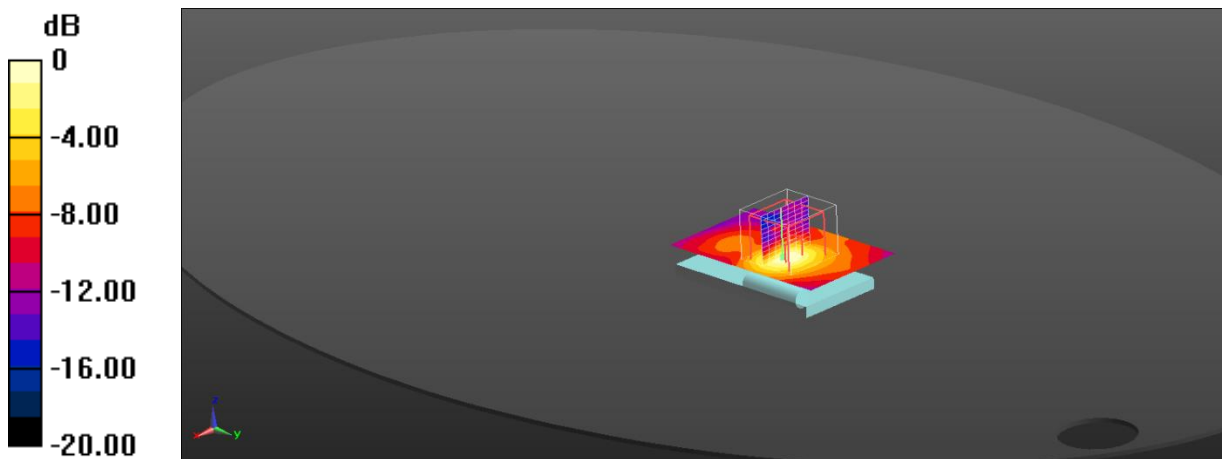
DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(3.75, 3.75, 3.75); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -9.0, 27.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASYS52 52.8.8(1258);

UNII-3 - 802.11n40 - Ch159 -5795MHz - Front Face - Main /Area Scan (51x81x1): Interpolated grid:
 $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 0.844 W/kg

UNII-3 - 802.11n40 - Ch159 -5795MHz - Front Face - Main /Zoom Scan (7x7x6)/Cube 0:
 Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 4.673 V/m; Power Drift = -0.42 dB
 Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.176 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.837 W/kg



0 dB = 0.837 W/kg = -0.77 dBW/kg

8. UNII-3 - 802.11n40, CH159, Aux Antenna – Front Face

Test Laboratory: Intel; Date/Time: 2016/09/09 4:09:35 PM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.40

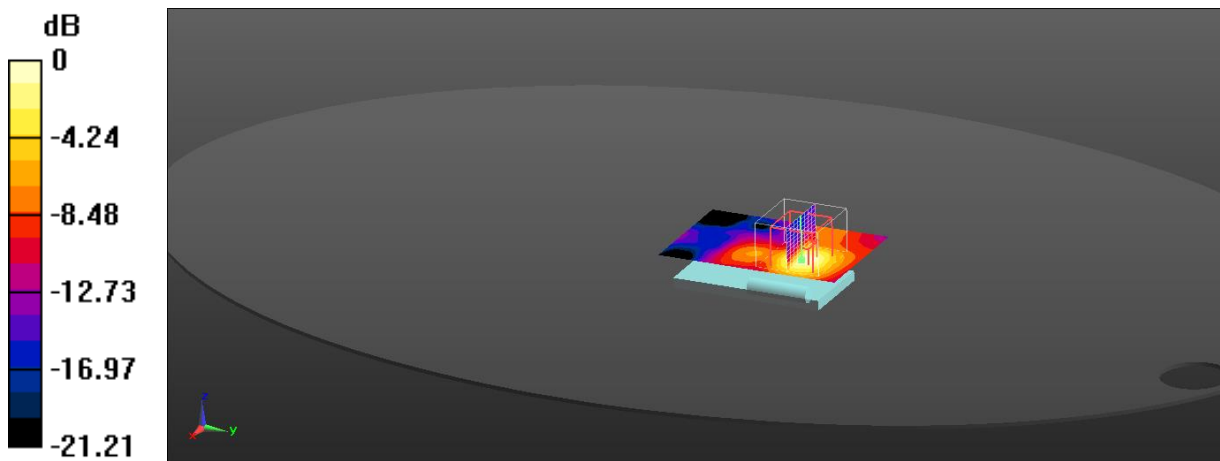
Communication System: UID 0, 802.11 (0); Communication System Band: 5GHz; Frequency: 5795 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5795$ MHz; $\sigma = 6.097$ S/m; $\epsilon_r = 45.24$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(3.75, 3.75, 3.75); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -9.0, 27.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASY52 52.8.8(1258);

UNII-3 - 802.11n40 - Ch159 -5795MHz - Front Face - Aux /Area Scan (61x91x1): Interpolated grid:
 $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 0.929 W/kg

UNII-3 - 802.11n40 - Ch159 -5795MHz - Front Face - Aux /Zoom Scan (9x9x12)/Cube 0:
 Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 4.271 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 1.77 W/kg
SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.152 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.933 W/kg



0 dB = 0.933 W/kg = -0.30 dBW/kg

9. BT - 802.15, CH39, Aux Antenna – Back Face

Test Laboratory: Intel; Date/Time: 2016/09/14 3:40:33 PM

DUT: 18265NGW; Type: Wireless Module; Serial: 34.13.E8.34.58.44

Communication System: UID 0, 802.15 (0); Communication System Band: 2.4GHZ; Frequency: 2441 MHz; Communication System PAR: 1.133 dB
 Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.994$ S/m; $\epsilon_r = 51.177$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

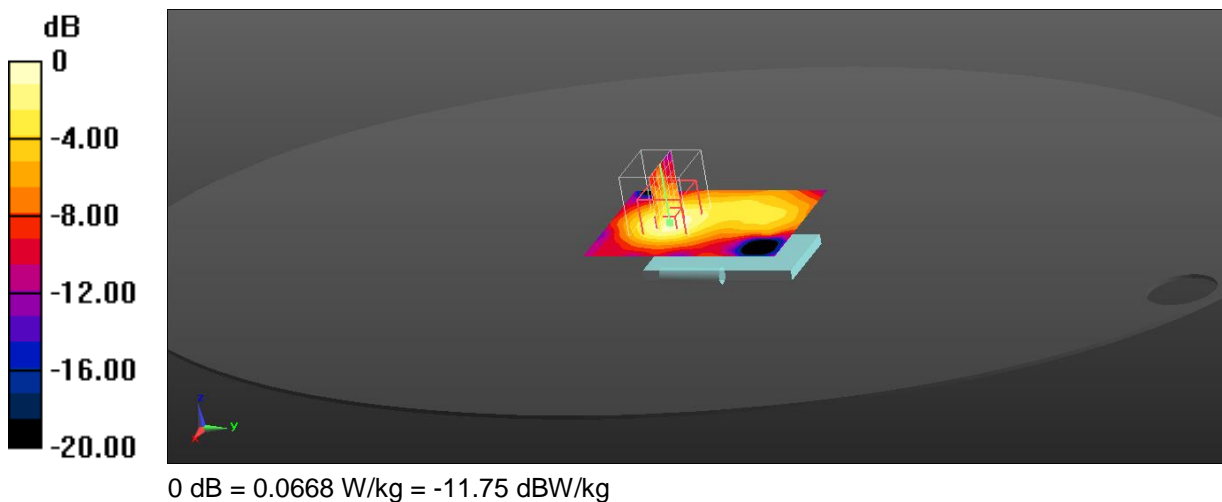
DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(7.25, 7.25, 7.25); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASY52 52.8.8(1258);

BT - 802.15 - Ch39 - 2441MHz - Back Face - Aux/Area Scan (61x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
 Maximum value of SAR (interpolated) = 0.0616 W/kg

BT - 802.15 - Ch39 - 2441MHz - Back Face - Aux/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 5.356 V/m; Power Drift = 0.38 dB
 Peak SAR (extrapolated) = 0.115 W/kg
SAR(1 g) = 0.061 W/kg; SAR(10 g) = 0.035 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.0668 W/kg



10. System Check Body Liquid 2450MHz

Test Laboratory: Intel; Date/Time: 2016/09/14 11:13:41 AM

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN: 937

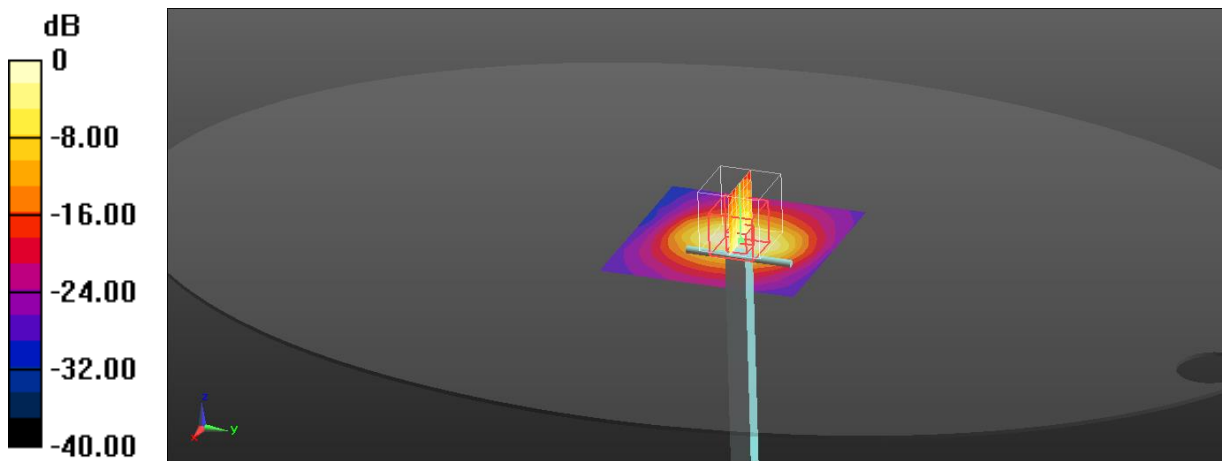
Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz);
 Frequency: 2450 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 2450$ MHz; $\sigma = 2.002$ S/m; $\epsilon_r = 51.169$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(7.25, 7.25, 7.25); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -14.0, 31.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASY52 52.8.8(1258);

WLAN-2.45GHz_System check 2450MHz/Area Scan (81x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
 Maximum value of SAR (interpolated) = 5.44 W/kg

WLAN-2.45GHz_System check 2450MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 52.49 V/m; Power Drift = -0.08 dB
 Peak SAR (extrapolated) = 9.39 W/kg
SAR(1 g) = 4.67 W/kg; SAR(10 g) = 2.18 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.36 W/kg



0 dB = 5.36 W/kg = 7.29 dBW/kg

11. System Check Body Liquid 5300MHz

Test Laboratory: Intel; Date/Time: 2016/09/09 5:51:25 PM

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1164

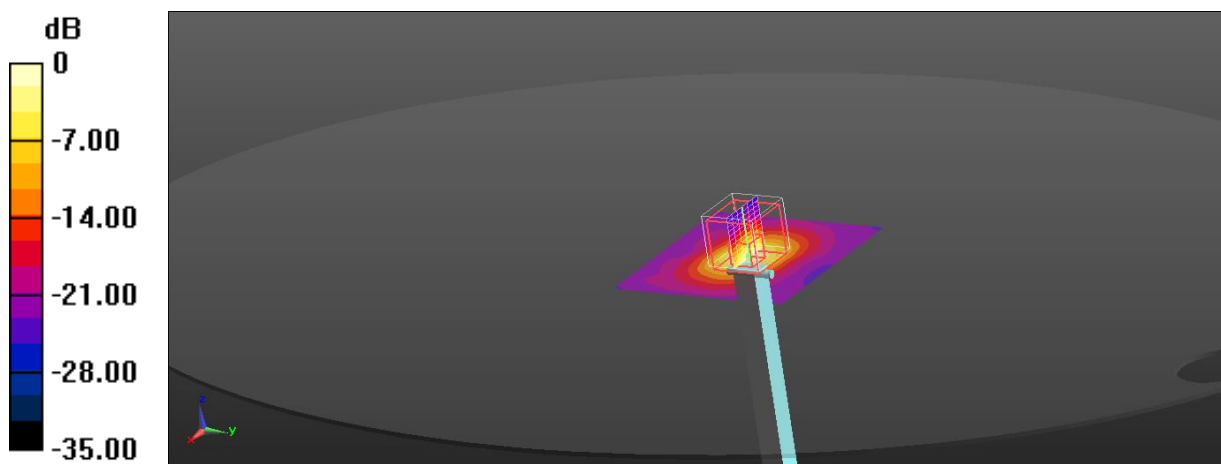
Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5300 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.408$ S/m; $\epsilon_r = 46.171$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASy5 (IEEE/IEC/ANSI C63.19-2011)

DASy Configuration:

- Probe: EX3DV4 - SN3978; ConvF(4.12, 4.12, 4.12); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASy52 52.8.8(1258);

WLAN-5GHz_System Check 5300MHz/Area Scan (81x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 7.73 W/kg

WLAN-5GHz_System Check 5300MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 41.74 V/m; Power Drift = 0.13 dB
 Peak SAR (extrapolated) = 15.3 W/kg
SAR(1 g) = 3.79 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 8.04 W/kg



0 dB = 8.04 W/kg = 9.05 dBW/kg

12. System Check Body Liquid 5600MHz

Test Laboratory: Intel; Date/Time: 2016/10/20 2:48:10 PM

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1164

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.828$ S/m; $\epsilon_r = 44.225$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASy5 (IEEE/IEC/ANSI C63.19-2011)

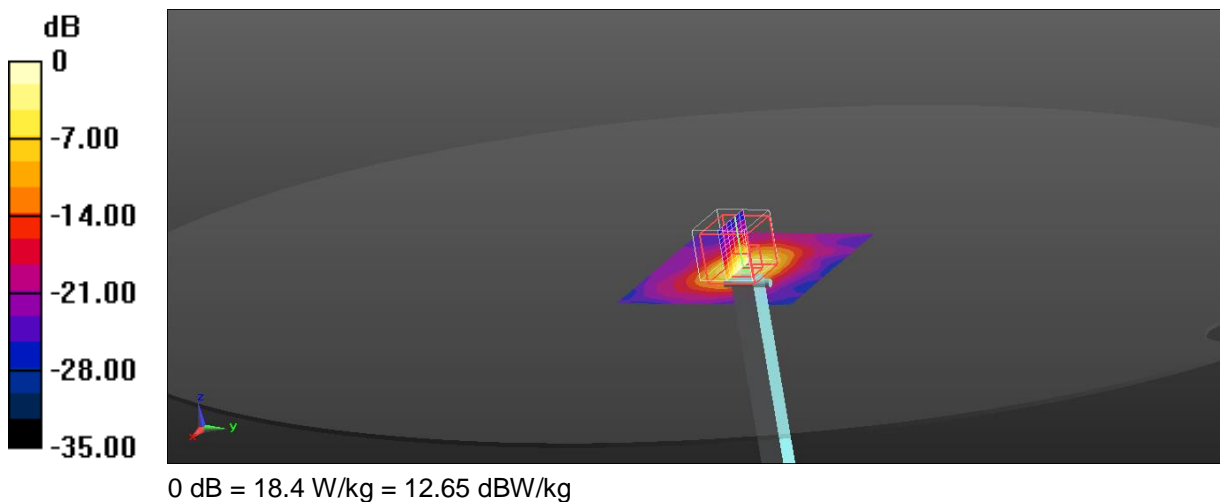
DASy Configuration:

- Probe: EX3DV4 - SN3978; ConvF(3.75, 3.75, 3.75); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASy52 52.8.8(1258);

WLAN-5GHz_System check 5600MHz/Area Scan (81x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 17.8 W/kg

WLAN-5GHz_System check 5600MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 62.77 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 34.9 W/kg
SAR(1 g) = 8.53 W/kg; SAR(10 g) = 2.37 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 18.4 W/kg



13. System Check Body Liquid 5800MHz

Test Laboratory: Intel; Date/Time: 2016/09/09 6:31:42 PM

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1164

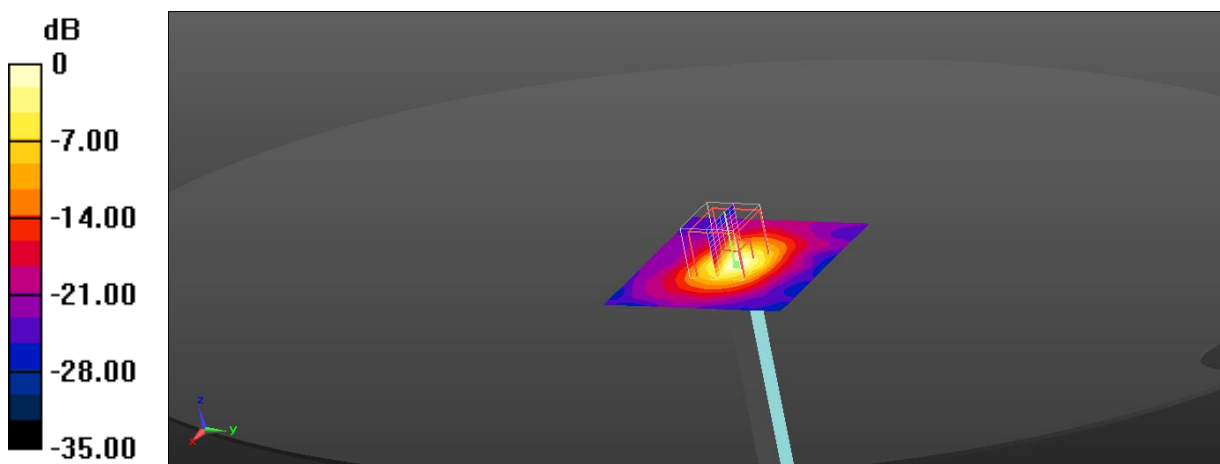
Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5800 MHz; Communication System PAR: 0 dB
 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.105$ S/m; $\epsilon_r = 45.232$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3978; ConvF(3.75, 3.75, 3.75); Calibrated: 2016/06/21;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1429; Calibrated: 2016/06/16
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax;
- DASY52 52.8.8(1258);




WLAN-5GHz_System check 5800MHz/Area Scan (81x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 7.72 W/kg

WLAN-5GHz_System check 5800MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 40.60 V/m; Power Drift = 0.41 dB
 Peak SAR (extrapolated) = 15.6 W/kg
SAR(1 g) = 3.69 W/kg; SAR(10 g) = 0.978 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 7.64 W/kg



0 dB = 7.64 W/kg = 8.83 dBW/kg

Annex D. Calibration Certificates

ID	Device	Type/Model	Serial Number	Manufacturer	Calibration Certificate
0236	Dosimetric E-field Probe	EX3DV4	3978	SPEAG	
0239	2450MHz System Validation Dipole	D2450V2	937	SPEAG	
0124	5GHz System Validation Dipole	D5GHzV2	1164	SPEAG	

Dipole calibration

According to the KDB 865664 D01, a dipole must be calibrated using a fully validated SAR system according to the tissue dielectric parameters and SAR probe calibration frequency required for device testing. However, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements.

1. When the most recent return-loss result, measured at least annually, deviates by more than 20% from the previous measurement (i.e. value in dB \times 0.2) or not meeting the required 20 dB minimum return-loss requirement.
2. When the most recent measurement of the real or imaginary parts of the impedance, measured at least annually, deviates by more than 5 Ω from the previous measurement

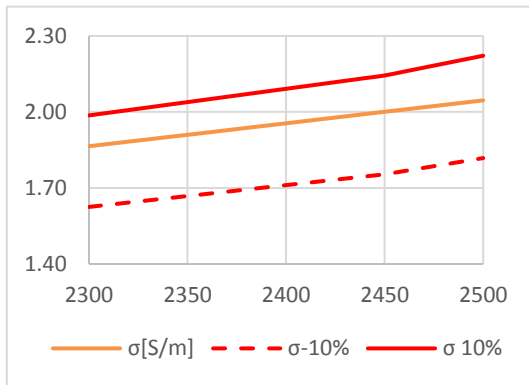
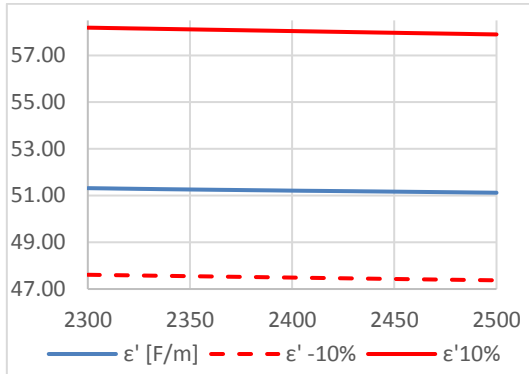
The below results show the latest return loss and impedance measurements for each dipole performed by the lab:

Dipole 2450MHz Body TSL			
	Return Loss [dB]	Impedance [Ω]	Date
Previous	-30.10	51.6 + 2.7 j	2014-12-15
Last	-29.60	49.65 + 0.44 j	2015-12-18
Difference	-12.20%	-1.95 – 2.26 j	
Dipole 5200MHz Body TSL			
	Return Loss [dB]	Impedance [Ω]	Date
Previous	-21.57	48.59 – 8.14 j	2015-06-18
Last	-21.05	47.30 – 6.14 j	2016-06-16
Difference	-12.72%	1.29 + 2 j	
Dipole 5300MHz Body TSL			
	Return Loss [dB]	Impedance [Ω]	Date
Previous	-24.37	48.26 – 5.69 j	2015-06-18
Last	-25.01	51.32 – 5.38 j	2016-06-16
Difference	13.70%	3.06 + 0.31 j	
Dipole 5500MHz Body TSL			
	Return Loss [dB]	Impedance [Ω]	Date
Previous	-30.27	51.60 – 2.67 j	2015-06-18
Last	-30.29	48.37 – 3.07 j	2016-06-16
Difference	0.45%	-3.23 – 0.4 j	
Dipole 5600MHz Body TSL			
	Return Loss [dB]	Impedance [Ω]	Date
Previous	-26.79	53.32 – 3.37 j	2015-06-18
Last	-26.35	49.61 – 2.33 j	2016-06-16
Difference	-10.66%	3.71 + 1.04 j	
Dipole 5800MHz Body TSL			
	Return Loss [dB]	Impedance [Ω]	Date
Previous	-23.97	55.20 – 4.16 j	2015-06-18
Last	-23.45	52.30 – 2.62 j	2016-06-16
Difference	-12.71%	- 2.9 + 1.54 j	

Annex E. TSL Dielectric Parameters

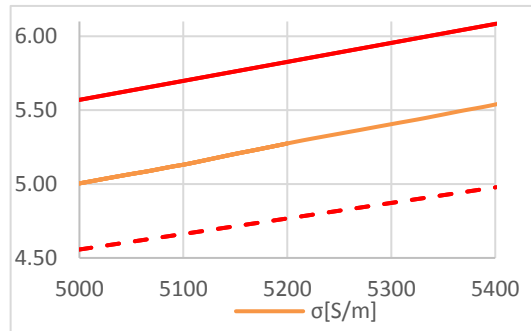
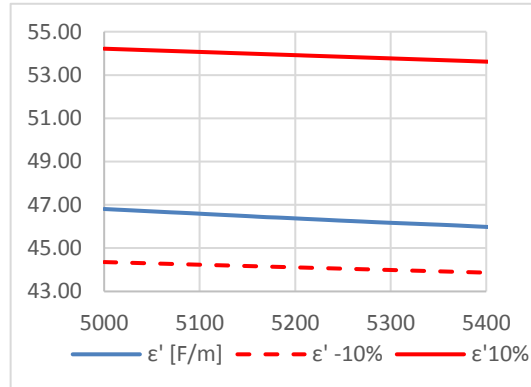
Body DTS 2450MHz

Freq. (MHz)	Target		2016/09/14	
			Measured	
	ϵ'	σ	ϵ'	σ
2300	52.90	1.81	51.32	1.86
2310	52.89	1.82	51.31	1.87
2320	52.87	1.82	51.29	1.88
2330	52.86	1.83	51.28	1.89
2340	52.85	1.84	51.27	1.90
2350	52.83	1.85	51.26	1.91
2360	52.82	1.86	51.25	1.92
2370	52.81	1.87	51.24	1.93
2380	52.79	1.88	51.23	1.94
2390	52.78	1.89	51.22	1.95
2400	52.77	1.90	51.21	1.96
2410	52.75	1.91	51.20	1.96
2420	52.74	1.92	51.20	1.97
2430	52.73	1.93	51.19	1.98
2440	52.71	1.94	51.18	1.99
2450	52.70	1.95	51.17	2.00
2460	52.69	1.96	51.16	2.01
2470	52.67	1.98	51.15	2.02
2480	52.66	1.99	51.14	2.03
2490	52.65	2.01	51.13	2.04
2500	52.64	2.02	51.12	2.05



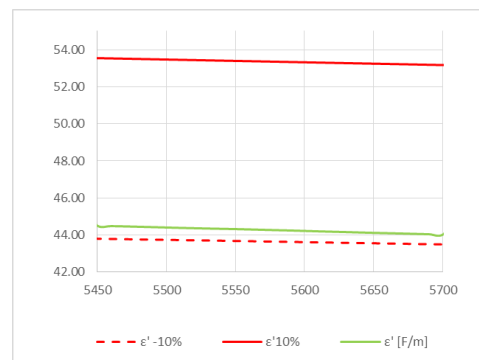
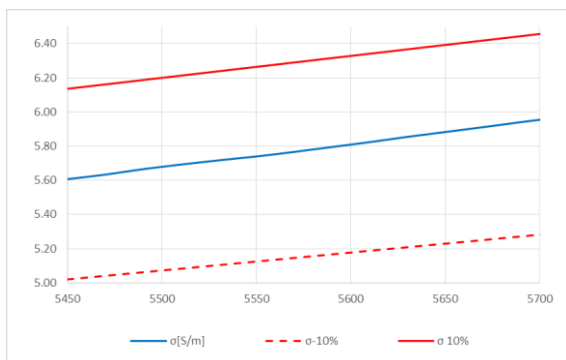
Body UNII-2A 5300MHz

Freq. (MHz)	Target		2016/09/09 Measured	
	ϵ'	σ	ϵ'	σ
	5000	49.29	5.06	46.81
5010	49.27	5.08	46.79	5.02
5020	49.26	5.09	46.77	5.03
5030	49.25	5.10	46.74	5.04
5040	49.23	5.11	46.72	5.06
5050	49.22	5.12	46.70	5.07
5060	49.20	5.13	46.68	5.08
5070	49.19	5.15	46.66	5.09
5080	49.18	5.16	46.64	5.11
5090	49.16	5.17	46.61	5.12
5100	49.15	5.18	46.59	5.13
5110	49.14	5.19	46.57	5.14
5120	49.12	5.20	46.55	5.16
5130	49.11	5.22	46.52	5.17
5140	49.10	5.23	46.50	5.19
5150	49.08	5.24	46.48	5.20
5160	49.07	5.25	46.46	5.22
5170	49.06	5.26	46.43	5.23
5180	49.04	5.27	46.42	5.25
5190	49.03	5.29	46.40	5.26
5200	49.01	5.30	46.37	5.27
5210	49.00	5.31	46.35	5.29
5220	48.99	5.32	46.33	5.30
5230	48.97	5.33	46.31	5.32
5240	48.96	5.34	46.29	5.33
5250	48.95	5.36	46.27	5.34
5260	48.93	5.37	46.25	5.35
5270	48.92	5.38	46.23	5.37
5280	48.91	5.39	46.21	5.38
5290	48.89	5.40	46.19	5.39
5300	48.88	5.41	46.17	5.41
5310	48.87	5.43	46.15	5.42
5320	48.85	5.44	46.14	5.43
5330	48.84	5.45	46.12	5.44
5340	48.82	5.46	46.10	5.46
5350	48.81	5.47	46.08	5.47
5360	48.80	5.48	46.07	5.48
5370	48.78	5.50	46.05	5.50
5380	48.77	5.51	46.03	5.51
5390	48.76	5.52	46.00	5.52
5400	48.74	5.53	45.98	5.54



Body UNII-2C 5600MHz

Freq. (MHz)	Target		2016/10/20 Measured	
	ϵ'	σ	ϵ'_2	σ_2
	5450	48.68	5.58	44.51
5460	48.66	5.59	44.49	5.62
5470	48.65	5.60	44.47	5.64
5480	48.63	5.61	44.45	5.65
5490	48.62	5.63	44.43	5.66
5500	48.61	5.64	44.41	5.68
5510	48.59	5.65	44.39	5.69
5520	48.58	5.66	44.37	5.71
5530	48.57	5.67	44.35	5.72
5540	48.55	5.68	44.34	5.74
5550	48.54	5.70	44.32	5.75
5560	48.53	5.71	44.30	5.77
5570	48.51	5.72	44.28	5.78
5580	48.50	5.73	44.27	5.80
5590	48.49	5.74	44.25	5.81
5600	48.47	5.75	44.22	5.83
5610	48.46	5.77	44.20	5.84
5620	48.44	5.78	44.18	5.86
5630	48.43	5.79	44.16	5.87
5640	48.42	5.80	44.14	5.89
5650	48.40	5.81	44.12	5.90
5660	48.39	5.82	44.10	5.92
5670	48.38	5.84	44.09	5.93
5680	48.36	5.85	44.07	5.94
5690	48.35	5.86	44.05	5.96
5700	48.34	5.87	44.03	5.97



Body UNII-3 5800MHz

Freq. (MHz)	Target		2016/09/09 Measured	
	ϵ'	σ	ϵ'	σ
	5700	48.34	5.87	45.42
5710	48.32	5.88	45.40	5.97
5720	48.31	5.89	45.38	5.98
5730	48.30	5.91	45.36	6.00
5740	48.28	5.92	45.34	6.02
5750	48.27	5.93	45.33	6.03
5760	48.25	5.94	45.31	6.04
5770	48.24	5.95	45.29	6.06
5780	48.23	5.96	45.27	6.07
5790	48.21	5.98	45.25	6.09
5800	48.20	5.99	45.23	6.10
5810	48.19	6.00	45.21	6.12
5820	48.17	6.01	45.20	6.13
5830	48.16	6.02	45.18	6.15
5840	48.15	6.03	45.16	6.16
5850	48.13	6.05	45.14	6.18
5860	48.12	6.06	45.12	6.19
5870	48.10	6.07	45.11	6.21
5880	48.09	6.08	45.09	6.22
5890	48.08	6.09	45.07	6.23
5900	48.06	6.10	45.05	6.25

