

## UNII Ant.1

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;  $\sigma = 5.108$  S/m;  $\epsilon_r = 35.704$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
- Probe: EX3DV4 - SN3871; ConvF(4.95, 4.95, 4.95) @ 5745 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751

**Rear/802.11 a mode ch 149 Ant.1 10mm/Volume Scan (23x28x12):** Measurement grid: dx=4mm, dy=4mm, dz=2mm

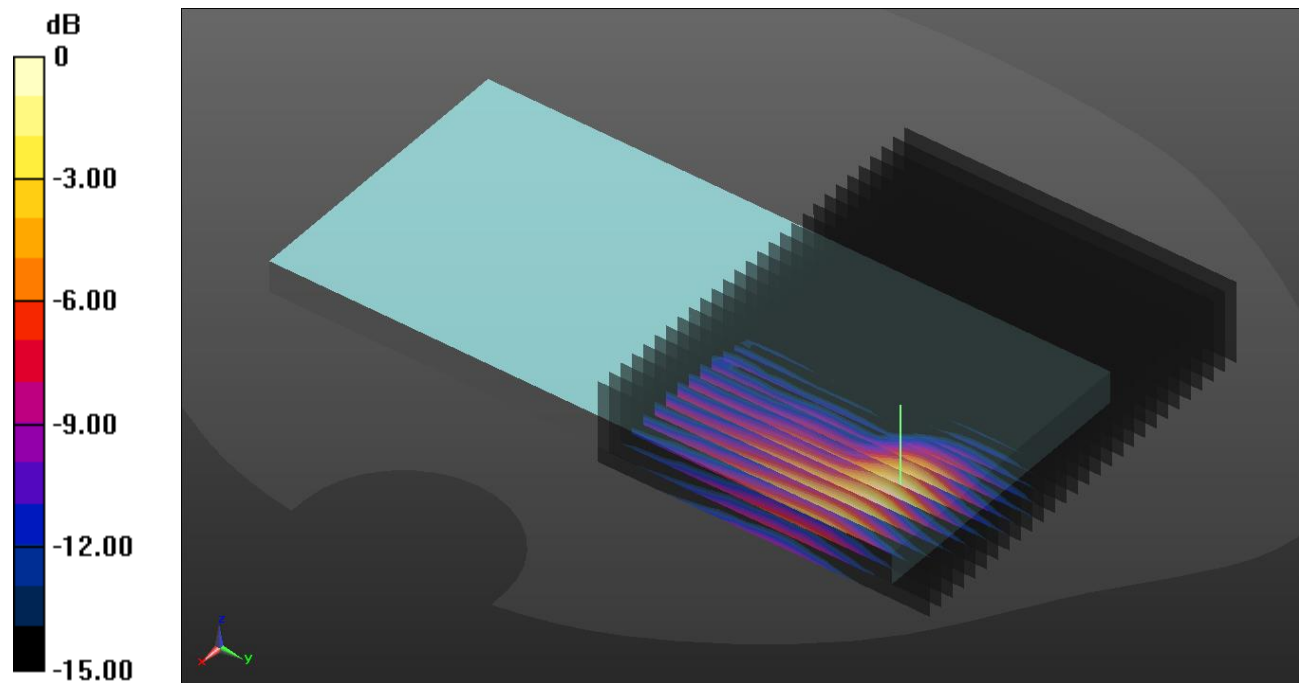
Reference Value = 2.010 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.98 W/kg

**SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.156 W/kg**

Total Absorbed Power = 0.00448 W

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

## UNII Ant.2

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;  $\sigma = 5.216$  S/m;  $\epsilon_r = 35.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
- Probe: EX3DV4 - SN3871; ConvF(4.95, 4.95, 4.95) @ 5745 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751

**Rear/802.11 a mode ch 149 Ant.2 10mm/Volume Scan (23x28x12):** Measurement grid: dx=4mm, dy=4mm, dz=2mm

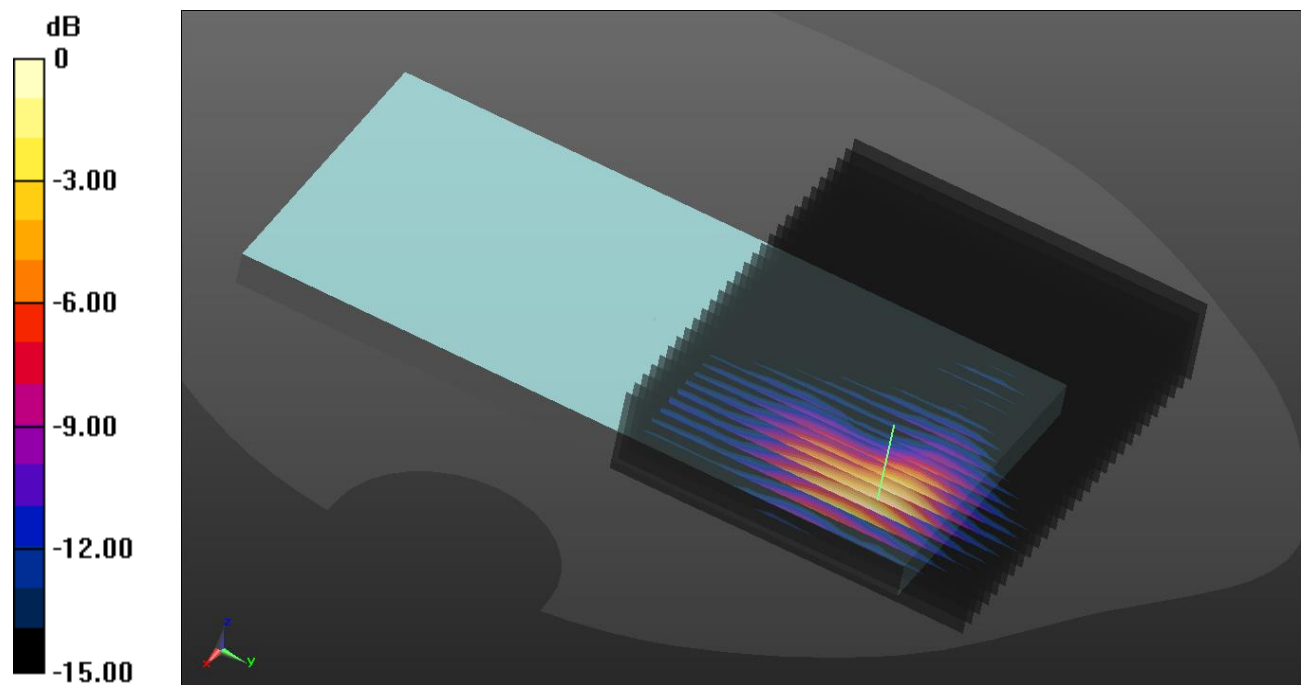
Reference Value = 0.9570 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.108 W/kg**

Total Absorbed Power = 0.00224 W

Maximum value of SAR (measured) = 0.904 W/kg



0 dB = 0.904 W/kg = -0.44 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:  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.859 \text{ S/m}$ ;  $\epsilon_r = 38.518$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
- Probe: EX3DV4 - SN3871; ConvF(7.65, 7.65, 7.65) @ 2480 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751

**Rear/Bluetooth\_DH5 Ch78 10mm/Volume Scan (23x28x12):** Measurement grid: dx=4mm, dy=4mm, dz=2mm

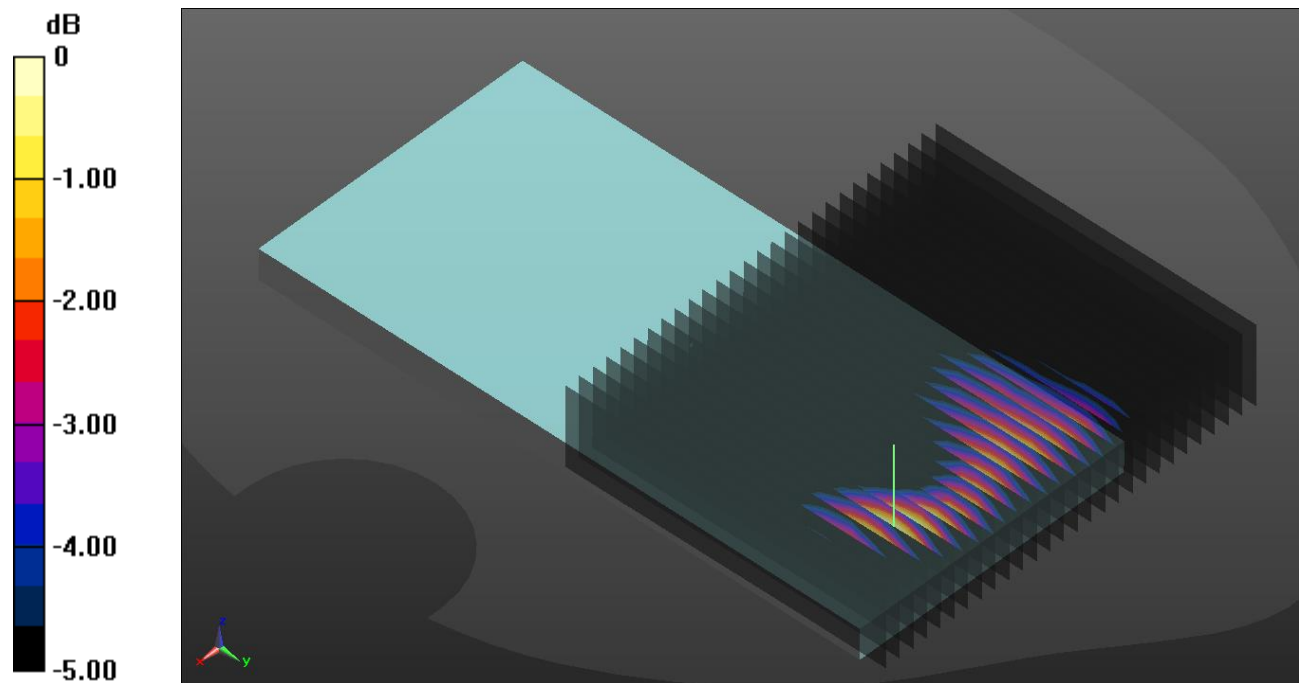
Reference Value = 0.8510 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.131 W/kg

**SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.028 W/kg**

Total Absorbed Power = 0.00167 W

Maximum value of SAR (measured) = 0.106 W/kg



0 dB = 0.106 W/kg = -9.75 dBW/kg

## UNII Ant.1 + Bluetooth

### Multi-Band Average SAR

#### Multi-Band Configurations:

##### DASY Configuration for Rear/802.11 a mode ch 149 Ant.1 10mm/Volume Scan:

Date/Time: 2020-06-17, 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: HSL 3-6 GHz Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.108$  S/m;  $\epsilon_r = 35.704$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN3871; ConvF(4.95, 4.95, 4.95) @ 5745 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751
- Measurement SW: DASY52, Version 52.10 (3)

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##### DASY Configuration for 20200618/Bluetooth DH5 Ch 78 10mm/Volume Scan:

Date/Time: 2020-06-18, 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;  $\sigma = 1.859$  S/m;  $\epsilon_r = 38.518$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section, Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

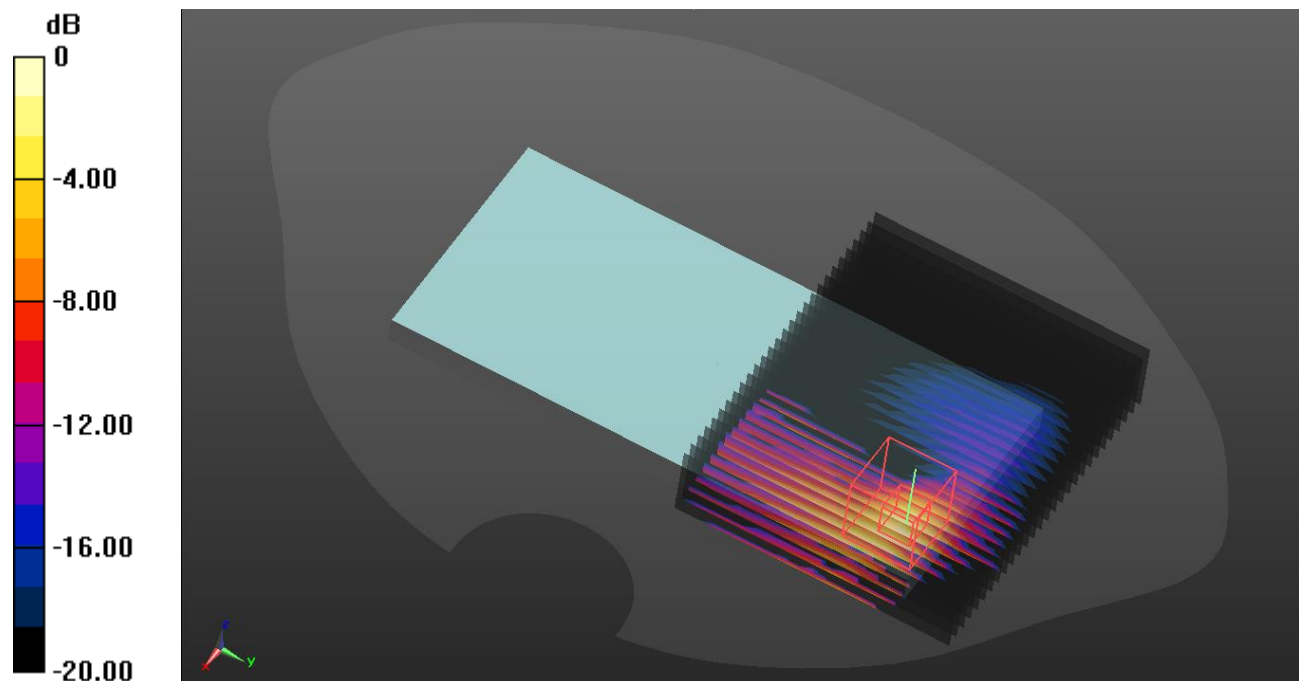
- Probe: EX3DV4 - SN3871; ConvF(7.65, 7.65, 7.65) @ 2480 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751
- Measurement SW: DASY52, Version 52.10 (3)

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#### Multi Band Result:

**SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.230 W/kg**

Maximum value of SAR (interpolated) = 2.64 W/kg



0 dB = 2.64 W/kg = 4.22 dBW/kg

## UNII MIMO + Bluetooth

### Multi-Band Average SAR Multi-Band Configurations:

#### DASY Configuration for Rear/802.11 a mode ch 149 Ant.1 10mm/Volume Scan:

Date/Time: 2020-06-17, 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: HSL 3-6 GHz Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 5.108$  S/m;  $\epsilon_r = 35.704$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN3871; ConvF(4.95, 4.95, 4.95) @ 5745 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751
- Measurement SW: DASY52, Version 52.10 (3)

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#### DASY Configuration for Rear/802.11 a mode ch 149 Ant.2 10mm/Volume Scan:

Date/Time: 2020-06-25, 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: HSL 3-6 GHz Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 5.216$  S/m;  $\epsilon_r = 35.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN3871; ConvF(4.95, 4.95, 4.95) @ 5745 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751
- Measurement SW: DASY52, Version 52.10 (3)

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#### DASY Configuration for Rear/Bluetooth DH5\_Ch 78 10mm/Volume Scan:

Date/Time: 2020-06-18, 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;  $\sigma = 1.859$  S/m;  $\epsilon_r = 38.518$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

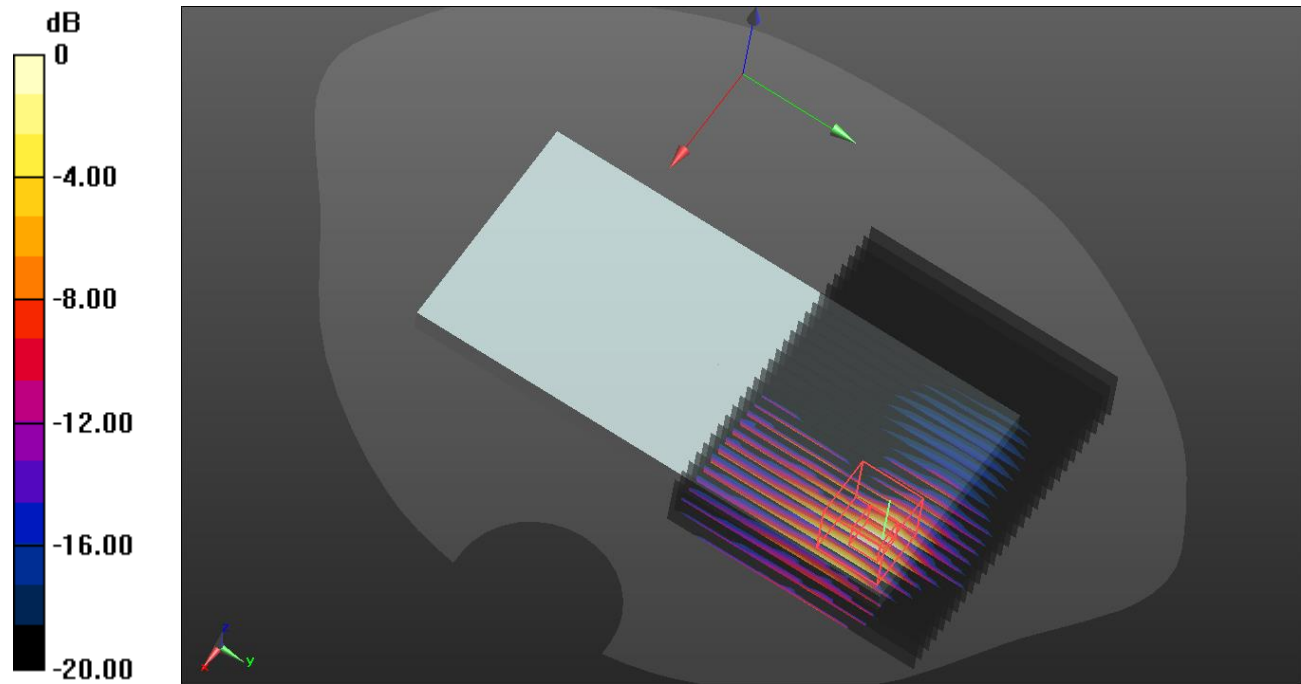
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN3871; ConvF(7.65, 7.65, 7.65) @ 2480 MHz; Calibrated: 2019-08-29
  - Sensor-Surface: 1.4mm (Mechanical Surface Detection)
  - Electronics: DAE4 Sn1343; Calibrated: 2019-08-27
  - Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1751
  - Measurement SW: DASY52, Version 52.10 (3)
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**Multi Band Result:**

**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.362 W/kg**

Maximum value of SAR (interpolated) = 4.23 W/kg



0 dB = 4.23 W/kg = 6.26 dBW/kg