

## Wi-Fi 5.8 GHz

Frequency: 5745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C  
Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.291$  S/m;  $\epsilon_r = 35.191$ ;  $\rho = 1000$  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 0.012W/kg
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

**Volume scan/802.11 a mode ch 149 ant 1/Volume Scan (24x15x7):** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

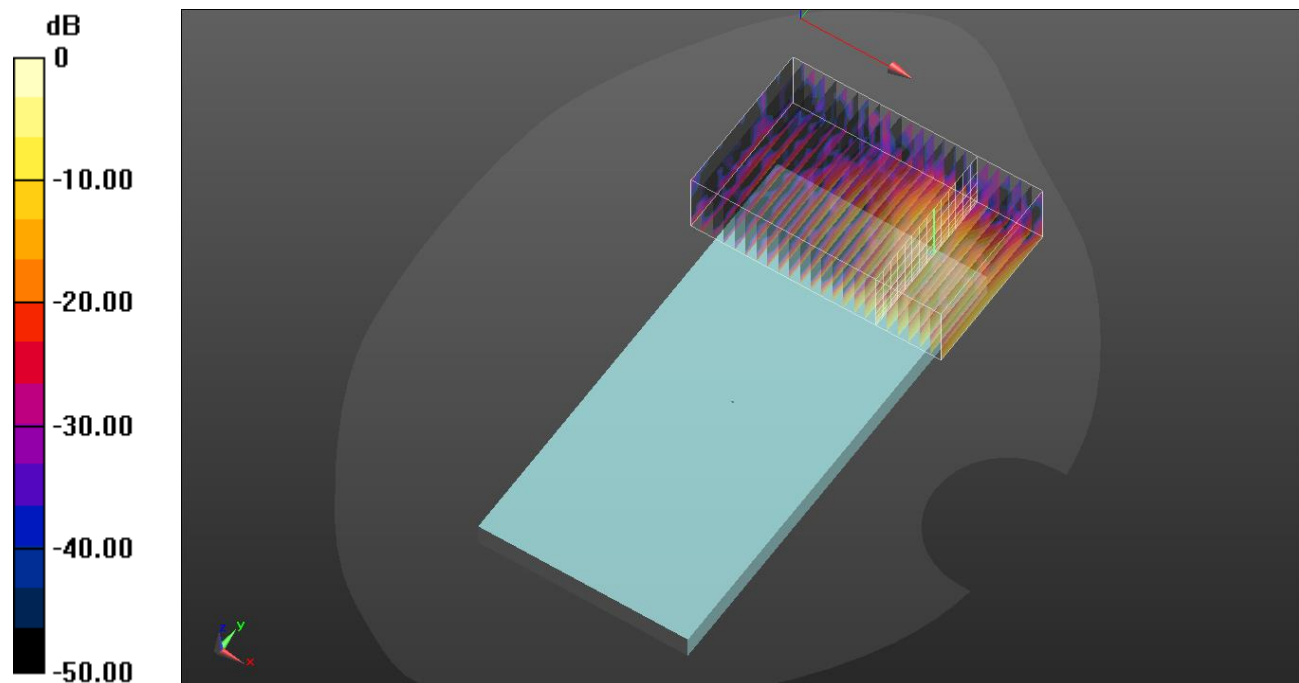
Reference Value = 11.01 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.11 W/kg

**SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.258 W/kg**

Total Absorbed Power = 0.00603 W

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg = 2.74 dBW/kg

## Bluetooth

Frequency: 2441 MHz; Duty Cycle: 1:1.29033; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 38.059$ ;  $\rho = 1000$  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 0.012W/kg

- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27

- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2441 MHz; Calibrated: 2021-04-15

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)

- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

**Volume scan/Bluetooth\_GFSK ch39/Volume Scan (27x22x7):** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

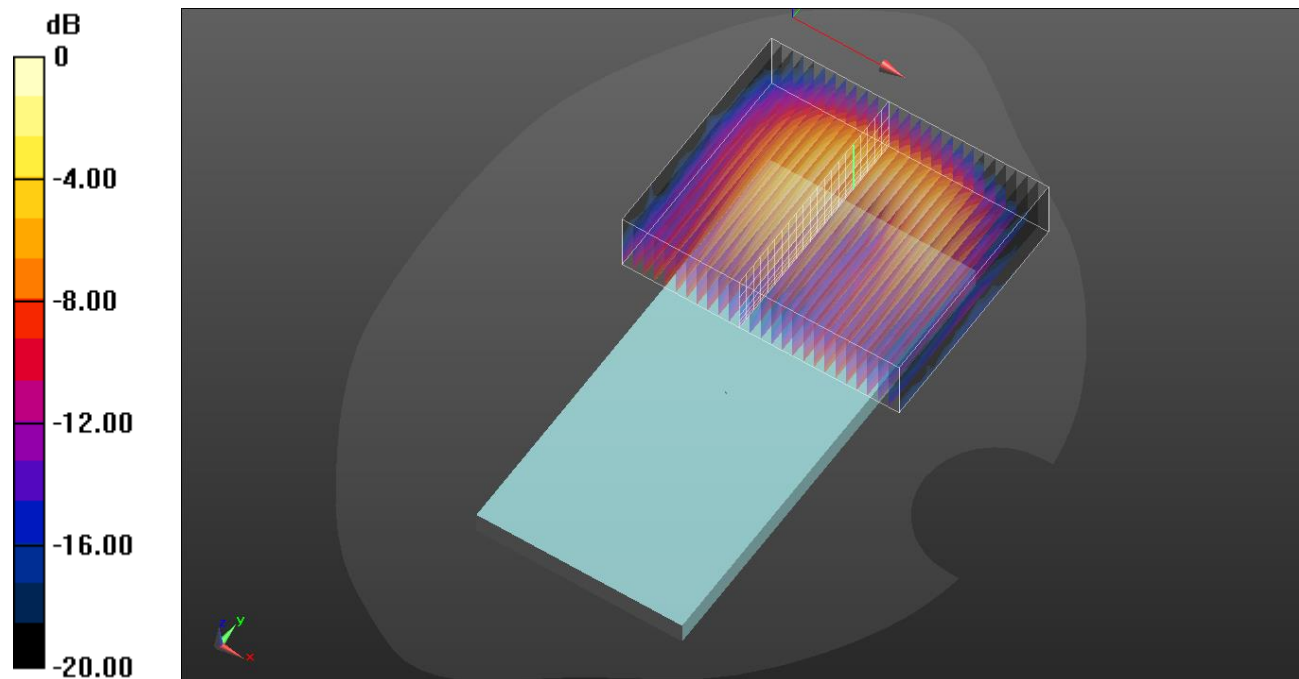
Reference Value = 7.126 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.153 W/kg

**SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.049 W/kg**

Total Absorbed Power = 0.00332 W

Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.127 W/kg = -8.96 dBW/kg

## Wi-Fi 5.8 GHz

Frequency: 5745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C  
 Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.291 \text{ S/m}$ ;  $\epsilon_r = 35.191$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.012W/kg
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

**Volume scan/802.11 a mode ch 149 MIMO/Volume Scan (24x15x7):** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

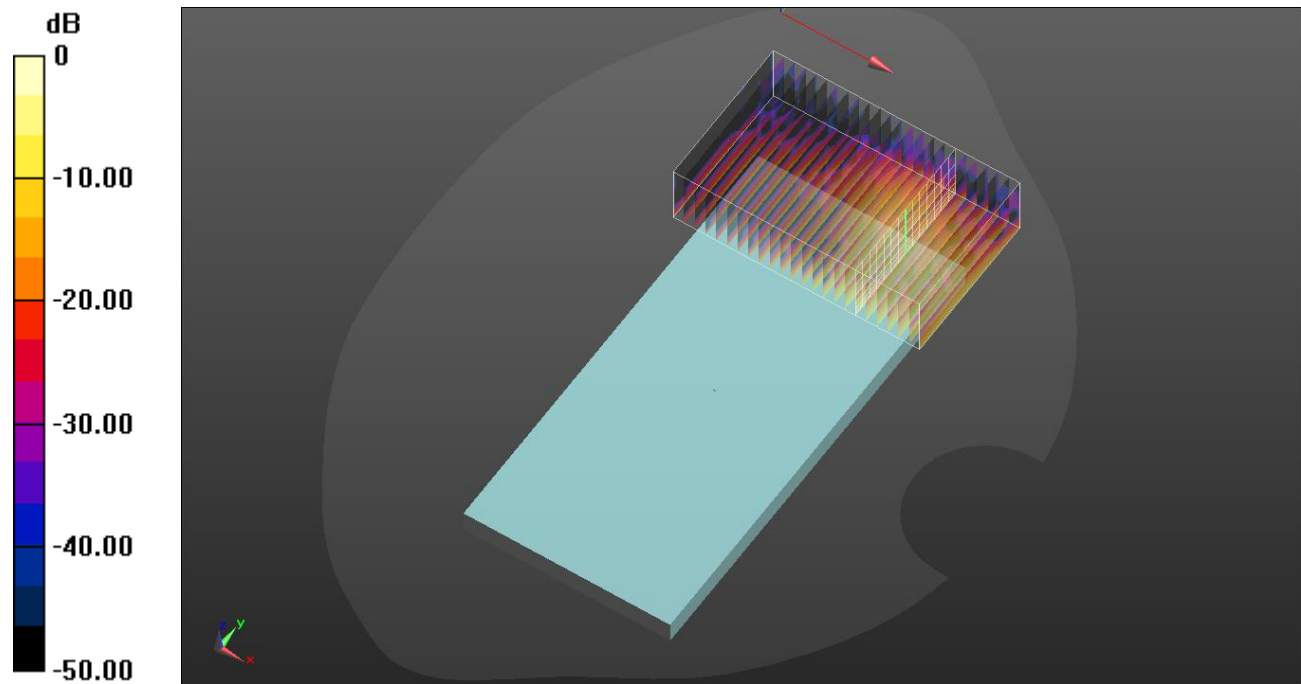
Reference Value = 13.42 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.46 W/kg

**SAR(1 g) = 0.921 W/kg; SAR(10 g) = 0.324 W/kg**

Total Absorbed Power = 0.00804 W

Maximum value of SAR (measured) = 2.08 W/kg



0 dB = 2.08 W/kg = 3.18 dBW/kg

## Wi-Fi 2.4 GHz RSDB

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C  
 Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.722$  S/m;  $\epsilon_r = 40.636$ ;  $\rho = 1000$  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 0.012W/kg
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2437 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

**Volume scan/802.11 a mode ch 6 ant 1/Volume Scan (24x15x7):** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

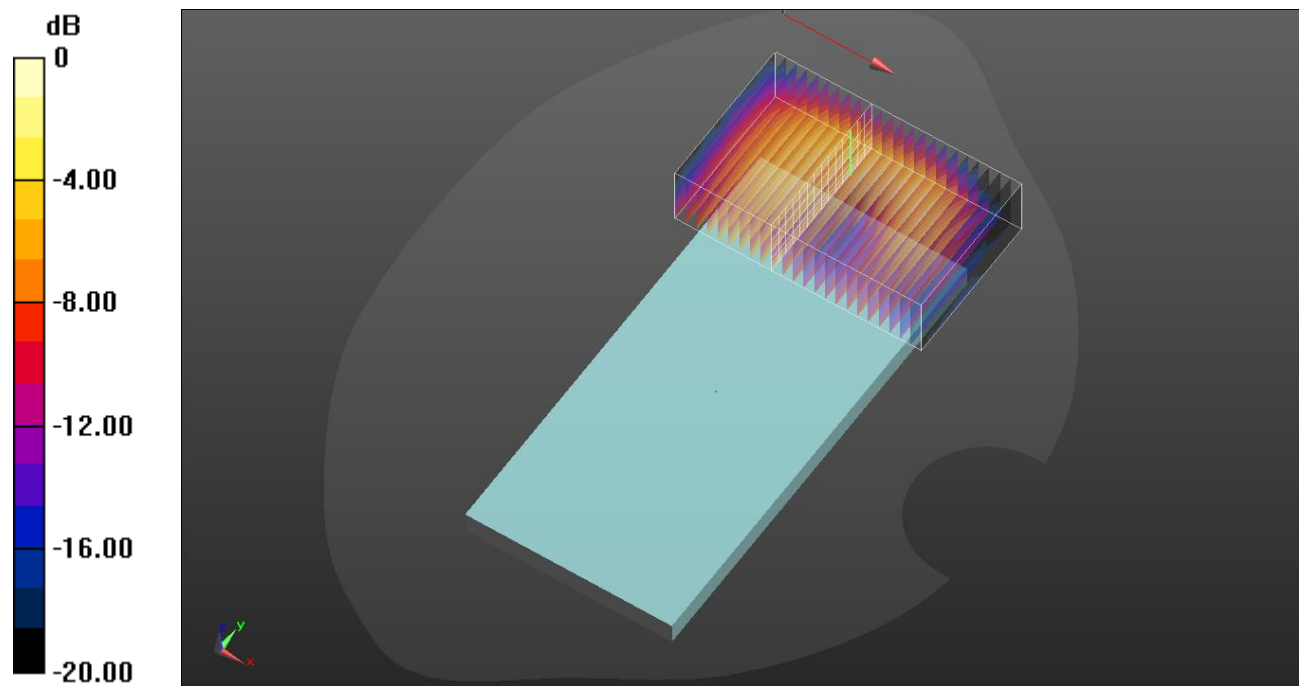
Reference Value = 7.804 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.199 W/kg

**SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.061 W/kg**

Total Absorbed Power = 0.00311 W

Maximum value of SAR (measured) = 0.159 W/kg



0 dB = 0.159 W/kg = -7.99 dBW/kg

## Wi-Fi 5.8 GHz RSDB

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C  
 Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.323 \text{ S/m}$ ;  $\epsilon_r = 35.118$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.012W/kg
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5775 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

**Volume scan/802.11 ac mode VHT80 ch 155 MIMO/Volume Scan (24x15x7):** Measurement grid:

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

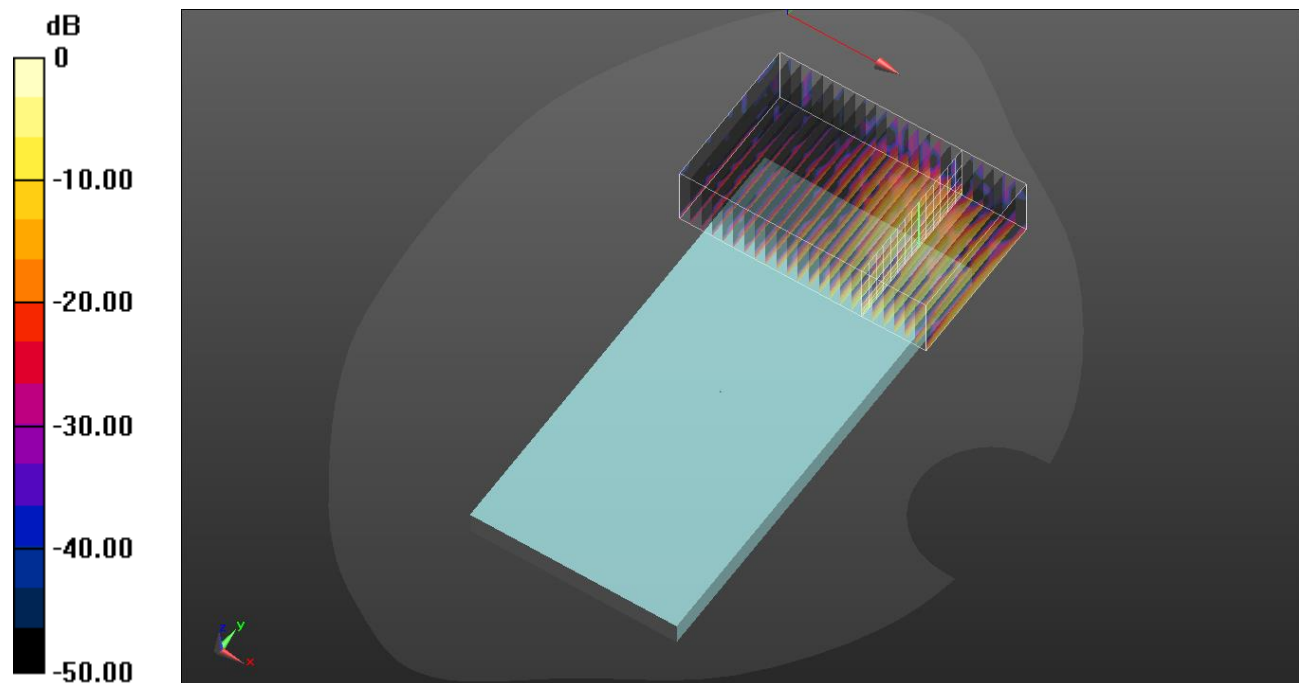
Reference Value = 9.017 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.153 W/kg**

Total Absorbed Power = 0.00355 W

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

# Multi-Band Average SAR

## Multi-Band Configurations:

### DASY Configuration for Volume scan/802.11 a mode ch 149 ant 1/Volume Scan:

Date/Time: 11/10/2021

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;  $\sigma = 5.291$  S/m;  $\epsilon_r = 35.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

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### DASY Configuration for Volume scan/Bluetooth\_GFSK ch39/Volume Scan:

Date/Time: 11/1/2021

Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, Bluetooth (DH5) (0); Frequency: 2441 MHz; Duty Cycle: 1:1.29033; PMF: 1

Medium: HSL 2450 Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 38.059$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

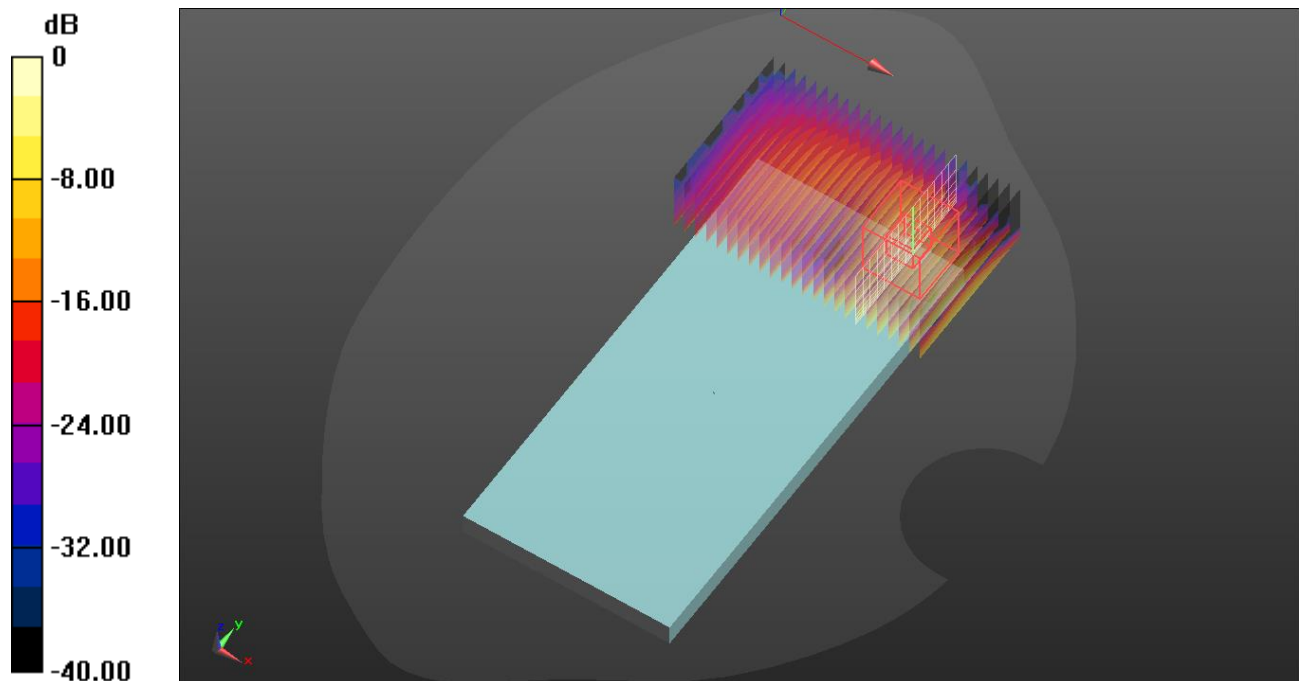
- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2441 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

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### Multi Band Result:

**SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.357 W/kg**

Maximum value of SAR (interpolated) = 3.71 W/kg



0 dB = 3.71 W/kg = 5.69 dBW/kg

# Multi-Band Average SAR

## Multi-Band Configurations:

### DASY Configuration for Volume scan/802.11 a mode ch 149 MIMO/Volume Scan:

Date/Time: 11/9/2021

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;  $\sigma = 5.291$  S/m;  $\epsilon_r = 35.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

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### DASY Configuration for Volume scan/Bluetooth\_GFSK ch39/Volume Scan:

Date/Time: 11/1/2021

Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, Bluetooth (DH5) (0); Frequency: 2441 MHz; Duty Cycle: 1:1.29033; PMF: 1

Medium: HSL 2450 Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 38.059$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

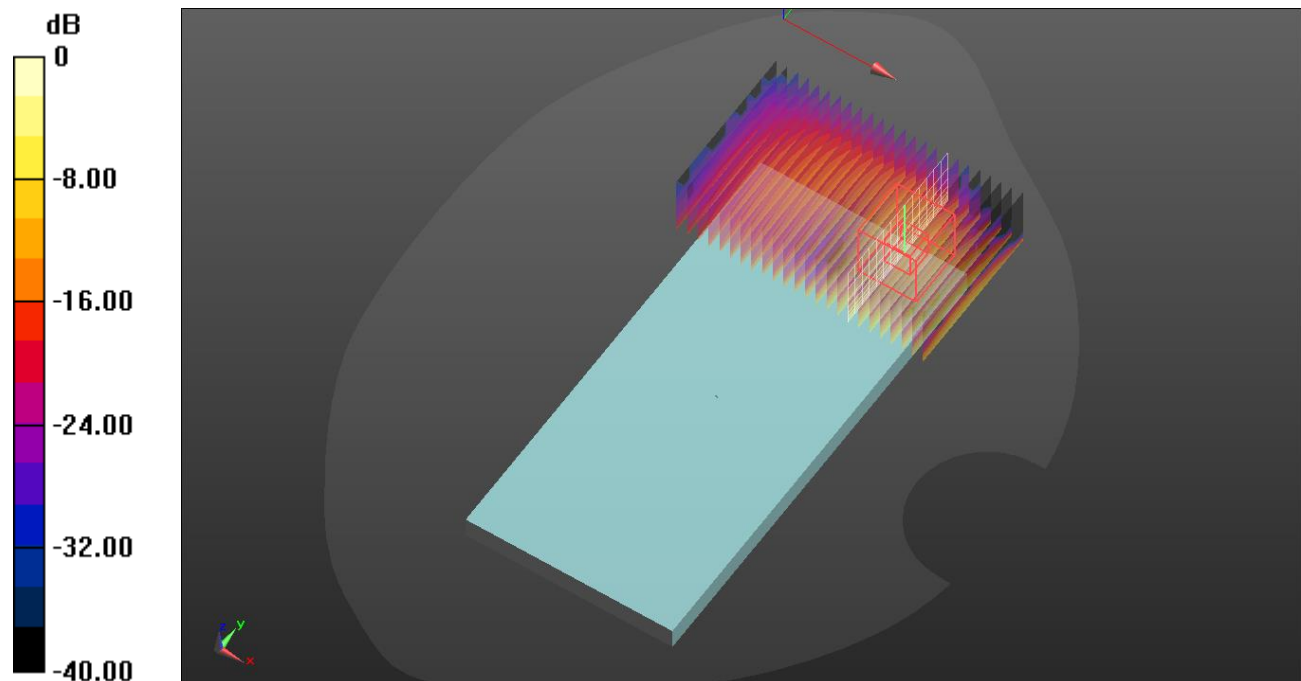
- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2441 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

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### Multi Band Result:

**SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.384 W/kg**

Maximum value of SAR (interpolated) = 3.67 W/kg



0 dB = 3.67 W/kg = 5.65 dBW/kg



## Multi-Band Average SAR

### Multi-Band Configurations:

#### DASY Configuration for Volume scan/802.11 a mode ch 6 ant 1/Volume Scan:

Date/Time: 11/11/2021

Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.722$  S/m;  $\epsilon_r = 40.636$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2437 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

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#### DASY Configuration for Volume scan/802.11 ac mode VHT80 ch 155 MIMO/Volume Scan:

Date/Time: 11/10/2021

Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 3-6GHz Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.323$  S/m;  $\epsilon_r = 35.118$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

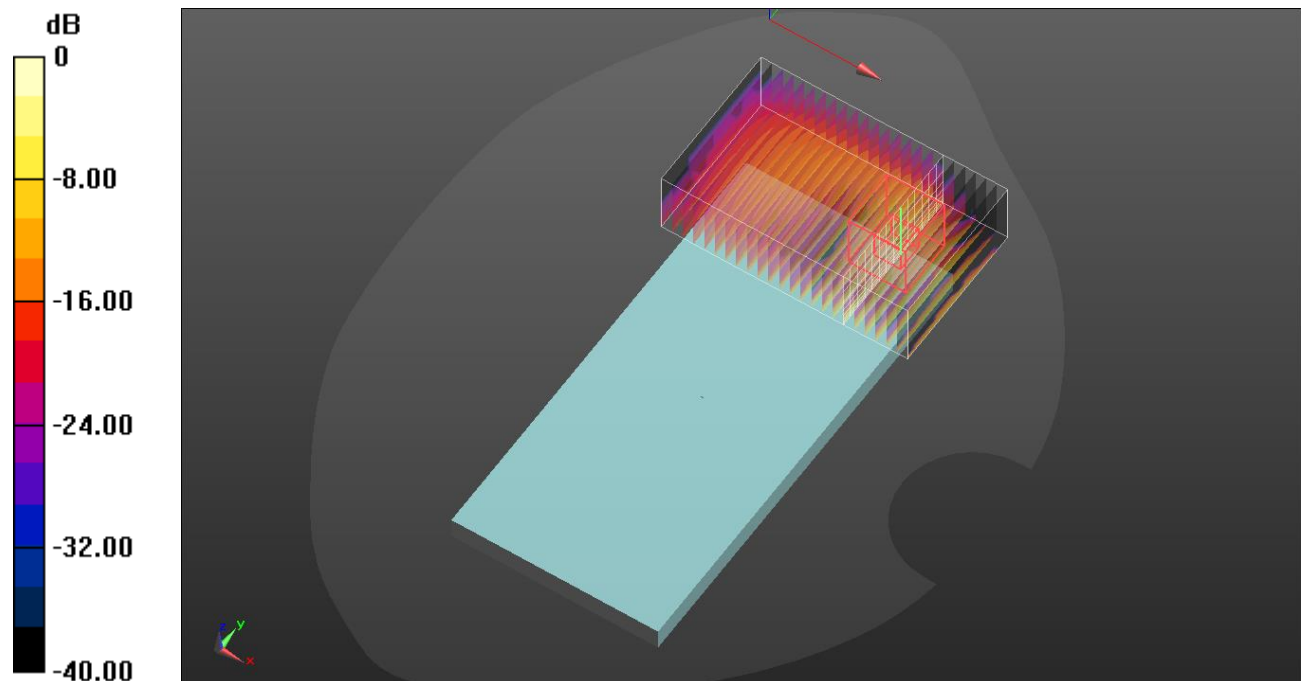
- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5775 MHz; Calibrated: 4/15/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 9/27/2021
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

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#### Multi Band Result:

**SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.236 W/kg**

Maximum value of SAR (interpolated) = 2.28 W/kg



0 dB = 2.28 W/kg = 3.58 dBW/kg