

Date: 2021/10/27

**Report No. :E5/2021/A0015**

**Bluebooth(GFSK), Body, Bottom Surface, CH 78, 0mm**

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.414

Medium parameters used:  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.876 \text{ S/m}$ ;  $\epsilon_r = 38.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.08, 8.08, 8.08) @ 2480 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0607 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.374 V/m; Power Drift = 0.11 dB

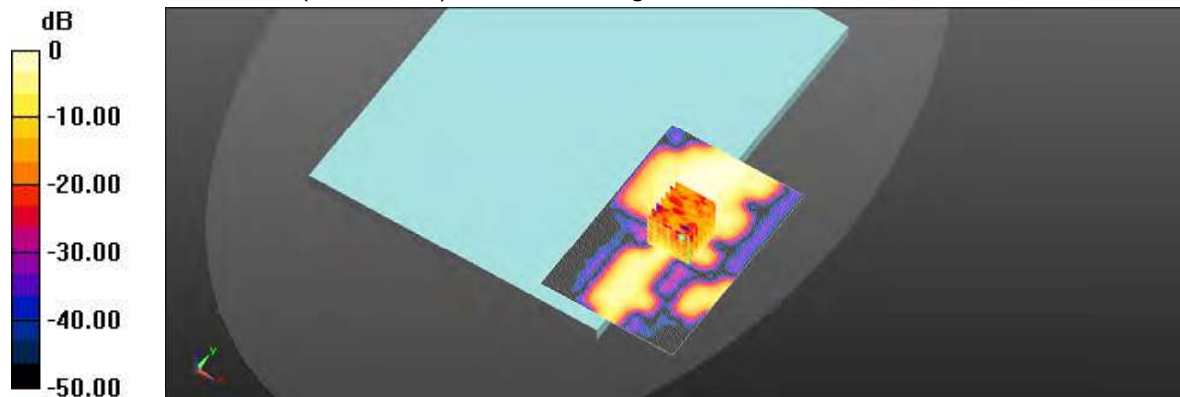
Peak SAR (extrapolated) = 0.0740 W/kg

**SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.015 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 0.0498 W/kg



0 dB = 0.0607 W/kg = -12.17 dBW/kg

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Date: 2021/10/27

**Report No. :E5/2021/A0015**

**WLAN 802.11n(40M) 5.2G, Body, Bottom Surface, CH 46, 0mm, TX2**

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.042

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.641 \text{ S/m}$ ;  $\epsilon_r = 35.512$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.6, 5.6, 5.6) @ 5230 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x141x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.17 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.462 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.21 W/kg

**SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.216 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 1.24 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.462 V/m; Power Drift = 0.16 dB

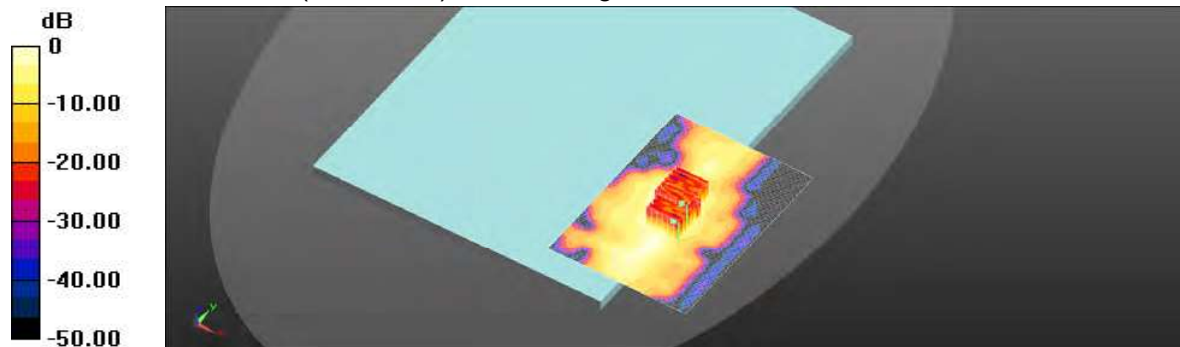
Peak SAR (extrapolated) = 2.23 W/kg

**SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.250 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 59.6%

Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

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Date: 2021/10/27

Report No. : E5/2021/A0015

**WLAN 802.11ac(80M) 5.2G, Body, Bottom Surface, CH 42, 0mm, TX2**

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.053

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 4.603 \text{ S/m}$ ;  $\epsilon_r = 35.538$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.6, 5.6, 5.6) @ 5210 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x141x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

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

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.754 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.27 W/kg

**SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.215 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 1.24 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.754 V/m; Power Drift = 0.11 dB

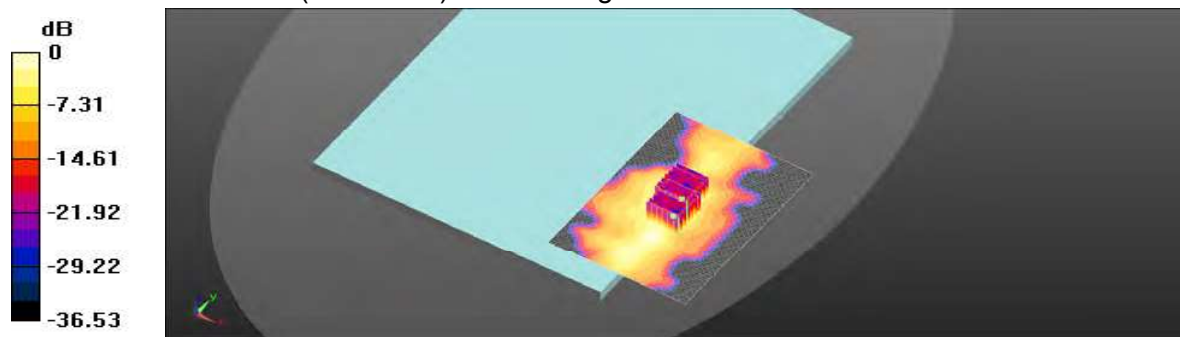
Peak SAR (extrapolated) = 2.27 W/kg

**SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.245 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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Date: 2021/10/27

**Report No. :E5/2021/A0015**

**WLAN 802.11n(40M) 5.3G, Body, Bottom Surface, CH 62, 0mm, TX2**

Communication System: WLAN 5G; Frequency: 5310 MHz; Duty cycle= 1:1.042

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.757 \text{ S/m}$ ;  $\epsilon_r = 35.301$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.5, 5.5, 5.5) @ 5310 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x141x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

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

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.628 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.14 W/kg

**SAR(1 g) = 0.600 W/kg; SAR(10 g) = 0.203 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 1.16 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.628 V/m; Power Drift = 0.05 dB

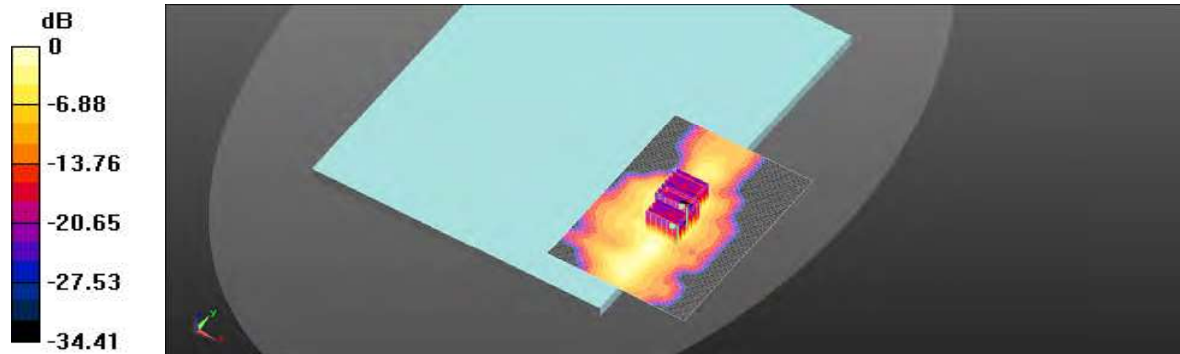
Peak SAR (extrapolated) = 2.19 W/kg

**SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.233 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2021/10/28

**Report No. :E5/2021/A0015**

**WLAN 802.11ac(80M) 5.6G, Body, Bottom Surface, CH 138, 0mm, TX2**

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.053

Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.255$  S/m;  $\epsilon_r = 34.583$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.04, 5.04, 5.04) @ 5690 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.337 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.64 W/kg

**SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.255 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 1.36 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.337 V/m; Power Drift = 0.12 dB

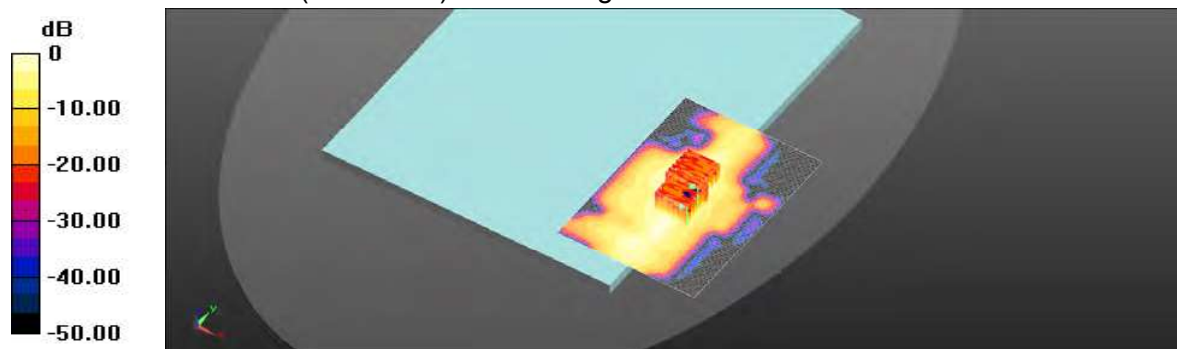
Peak SAR (extrapolated) = 2.18 W/kg

**SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.191 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

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Date: 2021/10/28

**Report No. :E5/2021/A0015**

**WLAN 802.11ac(40M) 5.8G, Body, Bottom Surface, CH 159, 0mm, TX2**

Communication System: WLAN 5G; Frequency: 5795 MHz; Duty cycle= 1:1.042

Medium parameters used:  $f = 5795 \text{ MHz}$ ;  $\sigma = 5.401 \text{ S/m}$ ;  $\epsilon_r = 34.379$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.02, 5.02, 5.02) @ 5795 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x141x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.44 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.864 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.298 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 1.62 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.864 V/m; Power Drift = 0.06 dB

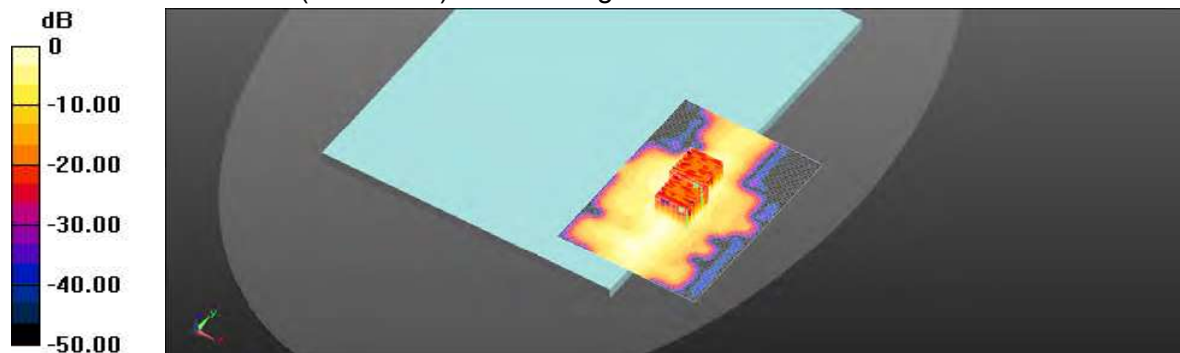
Peak SAR (extrapolated) = 2.27 W/kg

**SAR(1 g) = 0.587 W/kg; SAR(10 g) = 0.205 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

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## 6. SAR System Performance Verification

Date: 2021/10/27

Report No. :E5/2021/A0015

Dipole 2450 MHz, SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.842 \text{ S/m}$ ;  $\epsilon_r = 38.062$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(8.08, 8.08, 8.08) @ 2450 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x61x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.6 V/m; Power Drift = 0.04 dB

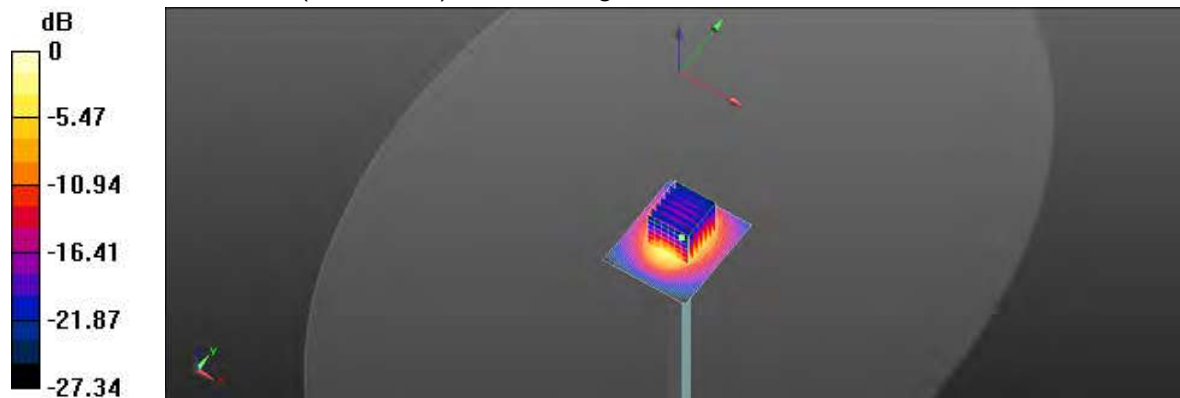
Peak SAR (extrapolated) = 26.8 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.14 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 21.8 W/kg = 13.38 dBW/kg

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Date: 2021/10/27

**Report No. :E5/2021/A0015**

**Dipole 5200 MHz, SN:1023**

Communication System: CW; Frequency: 5200 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 4.589 \text{ S/m}$ ;  $\epsilon_r = 35.561$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.6, 5.6, 5.6) @ 5200 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x51x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.4 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.39 V/m; Power Drift = -0.09 dB

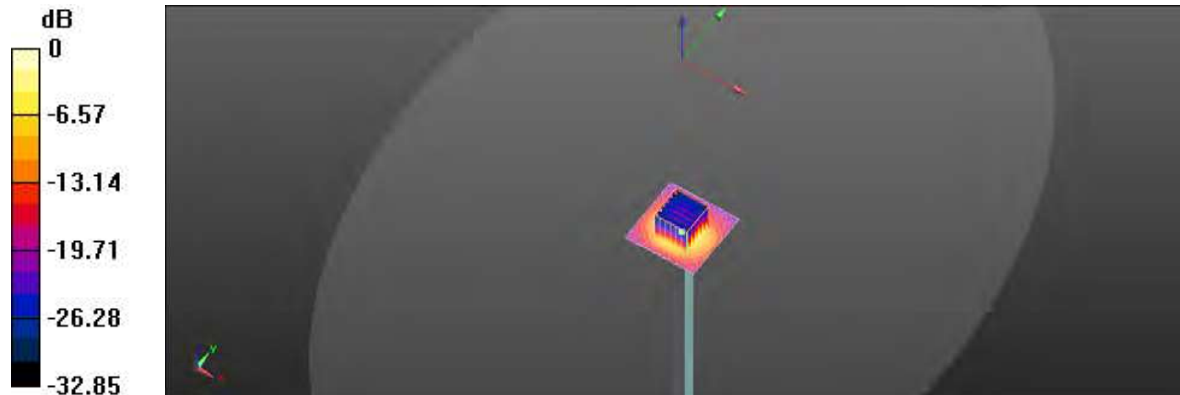
Peak SAR (extrapolated) = 32.5 W/kg

**SAR(1 g) = 7.8 W/kg; SAR(10 g) = 2.14 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

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Date: 2021/10/27

**Report No. :E5/2021/A0015**

**Dipole 5300 MHz, SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.739 \text{ S/m}$ ;  $\epsilon_r = 35.323$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.5, 5.5, 5.5) @ 5300 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x51x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.9 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.25 V/m; Power Drift = -0.15 dB

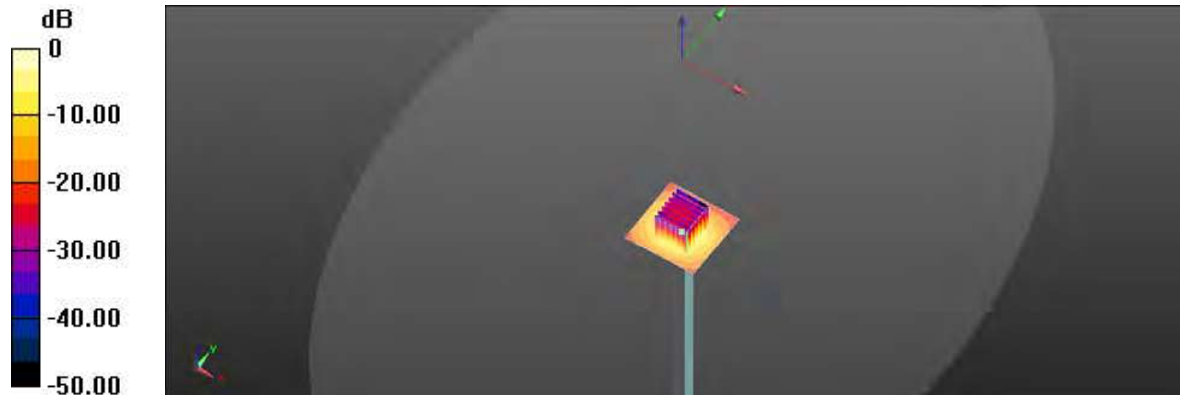
Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.26 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

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Date: 2021/10/28

**Report No. :E5/2021/A0015**  
**Dipole 5600 MHz, SN:1023**

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1  
Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 5.131 \text{ S/m}$ ;  $\epsilon_r = 34.777$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7466; ConvF(5.04, 5.04, 5.04) @ 5600 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x61x1):** Interpolated grid: dx=10 mm, dy=10 mm  
Maximum value of SAR (interpolated) = 17.4 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 60.11 V/m; Power Drift = 0.13 dB

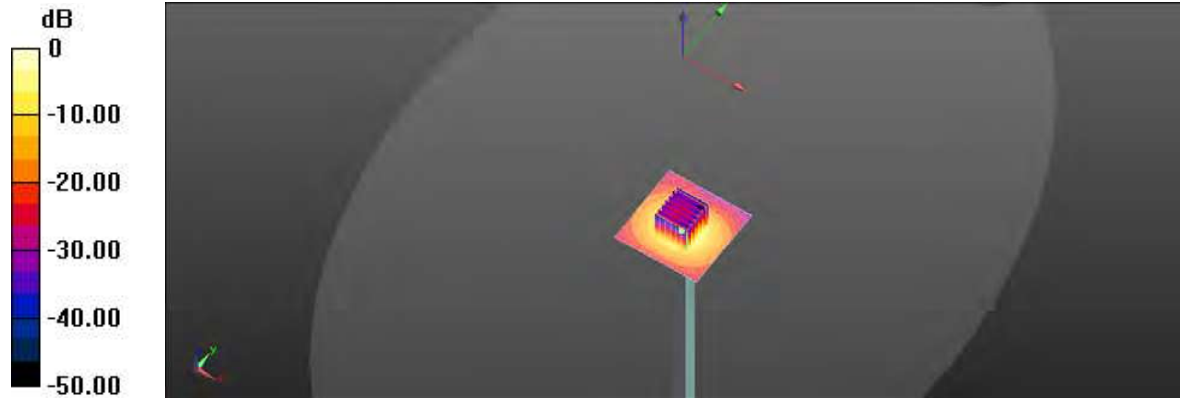
Peak SAR (extrapolated) = 36.2 W/kg

**SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.38 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

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Date: 2021/10/28

**Report No. :E5/2021/A0015**

**Dipole 5800 MHz, SN:1023**

Communication System: CW; Frequency: 5800 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.406 \text{ S/m}$ ;  $\epsilon_r = 34.313$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.02, 5.02, 5.02) @ 5800 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x51x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.98 V/m; Power Drift = 0.12 dB

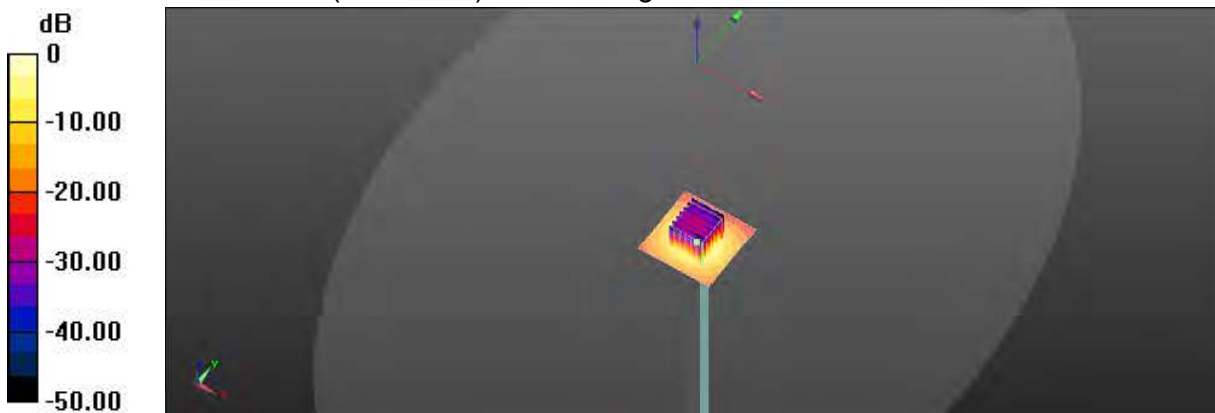
Peak SAR (extrapolated) = 35.4 W/kg

**SAR(1 g) = 7.85 W/kg; SAR(10 g) = 2.23 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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## 7. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	c	D	e	f	g	h=c * f / e	i=c * g / e	k	
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
<b>Measurement system</b>									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.80%	N	1	1	0.64	0.43	1.79%	1.20%	M
Liquid Conductivity (mea.)	2.58%	N	1	1	0.6	0.49	1.55%	1.26%	M
Combined standard uncertainty		RSS					11.95%	11.84%	
Expant uncertainty (95% confidence interval), K=2							23.91%	23.67%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
<b>Measurement system</b>									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<b>Isotropy , Axial</b>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<b>Isotropy, Hemispherical</b>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.94%	N	1	1	0.64	0.43	1.88%	1.26%	M
Liquid Conductivity (mea.)	2.68%	N	1	1	0.6	0.49	1.61%	1.31%	M
Combined standard uncertainty		RSS					11.68%	11.55%	
Expant uncertainty (95% confidence interval), K=2							23.37%	23.11%	

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## Appendixes

**Refer to separated files for the following appendixes.**

**E52021A0015 SAR\_Appendix A Photographs**

**E52021A0015 SAR\_Appendix B DAE & Probe Cal. Certificate**

**E52021A0015 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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