

## Appendix B SAR Measurement data

### B.1 Evaluation procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the E-field at a fixed location above the ear point or central position of flat phantom was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was 15 mm x 15 mm, 12 mm x 12 mm or 10 mm x 10 mm. Based on these data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Around this point found in the Step 2 (area scan), a volume of 30 mm x 30 mm x 30 mm or more was assessed by measuring 7 x 7 x 7 points at least for below 3 GHz and a volume of 28 mm x 28 mm x 22.5 mm or more was assessed by measuring 8 x 8 x 6 (ratio step method (\*1)) points at least for 5 GHz band.

And for any secondary peaks found in the Step2 which are within 2 dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

(1). The data at the surface were extrapolated, since the center of the dipoles is 1mm(EX3DV4) away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm [4]. A polynomial of the fourth order was calculated through the points in z-axes.

This polynomial was then used to evaluate the points between the surface and the probe tip.

(2). The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x, y and z-directions) [4], [5]. The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.

(3). All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

\*1. Ratio step method parameters used:

The first measurement point: 2 mm from the phantom surface, the initial grid separation: 2 mm, subsequent graded grid ratio: 1.5  
These parameters comply with the requirement of the KDB 865664D01.

Step 4: Re-measurement of the E-field at the same location as in Step 1.

Confirmation after SAR testing

It was checked that the power drift [W] is within +/- 5 %. The verification of power drift during the SAR test is that DASY5 system calculates the power drift by measuring the e-filed at the same location at beginning and the end of the scan measurement for each test position.

DASY5 system calculation Power drift value[dB] = 20log(Ea)/(Eb)

Before SAR testing : Eb[V/m]

After SAR testing : Ea[V/m]

Limit of power drift[W] = +/- 5 %

X[dB]=10log(P)=10log(1.05/1)=10log(1.05)-10log(1)=0.212 dB

from E-filed relations with power.

p=E^2/η=E^2/

Therefore, The correlation of power and the E-filed

XdB=10log(P)=10log(E)^2=20log(E)

Therefore,

The calculated power drift of DASY5 System must be less than +/- 0.212 dB.

B.2 Plot No. W2.1

Full WCDMA B2 ch9400 Rear tilt Edge 4 1880 MHz RMC 12.2 k  
**08\_30\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C**

**Communication System info**

Communication System: UID 0, #WCDMA (0)

Communication System Band: Band II

Duty Cycle: 1:1

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

**Probe info:**

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20

ConvF(8.36, 8.36, 8.36) @ 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.43 \text{ S/m}$ ;  $\epsilon_r = 40.16$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

**DAE info:**

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

**Phantom info:**

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**ful/WCDMA B2 ch9400 1880 MHz RMS 12.2 k Rear tilt Edge 4 9 mm/Area Scan (101x61x1):** Interpolated grid:  
 $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.11 W/kg

**ful/WCDMA B2 ch9400 1880 MHz RMS 12.2 k Rear tilt Edge 4 9 mm/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 29.25 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.32 W/kg

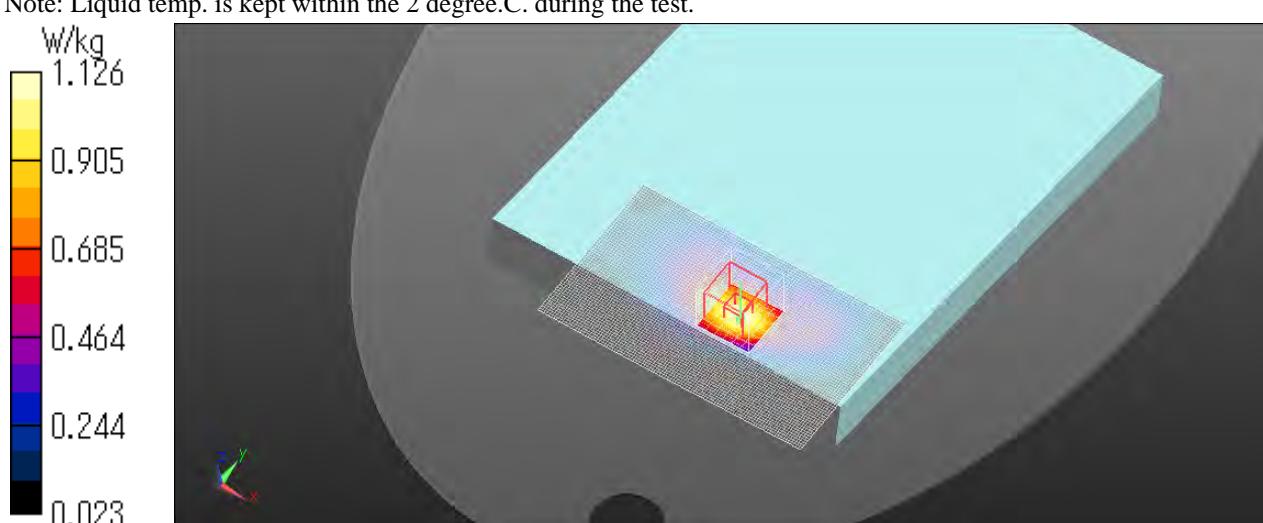
**SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.456 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.9 mm

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

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.3 Plot No. W2.2  
Reduction WCDMA B2 ch9538 Edge 4 1907.6 MHz RMC 12.2 k  
**08\_25\_2022\_Room3 Temp\_24.0 deg.C.\_Liquid Temp\_23.5 degC**

#### Communication System info

Communication System: UID 0, #WCDMA (0)  
Communication System Band: Band II  
Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19  
ConvF(7.53, 7.53, 7.53) @ 1907.6 MHz  
Medium parameters used (interpolated):  $f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.453 \text{ S/m}$ ;  $\epsilon_r = 38.511$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045  
**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

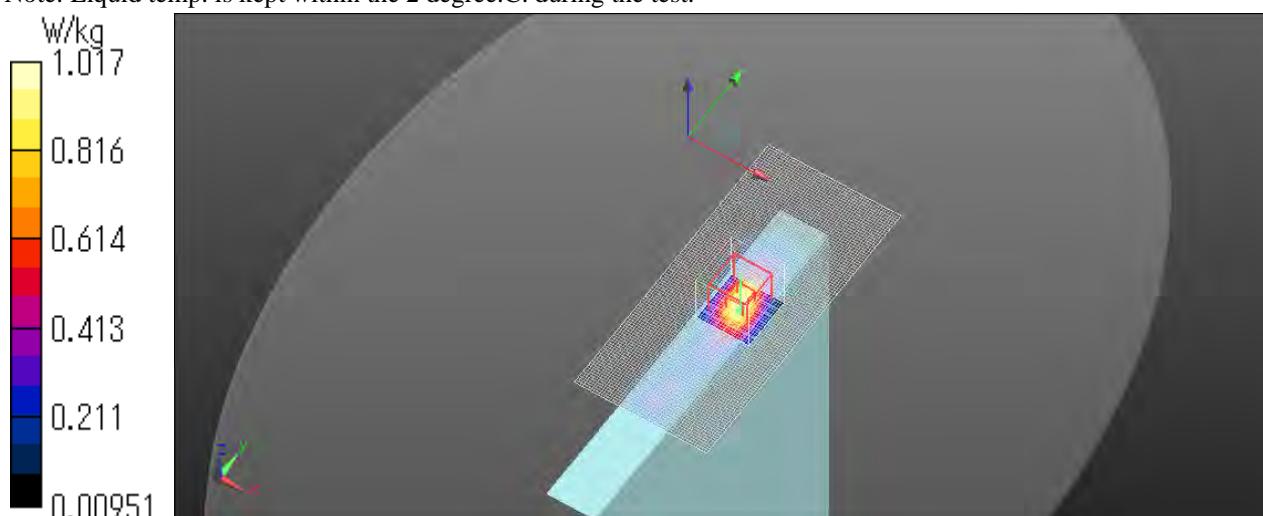
**red/WCDMA B2 ch9538 1907.6 MHz RMC 12.2 k Edge 4/Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 1.02 W/kg

**red/WCDMA B2 ch9538 1907.6 MHz RMC 12.2 k Edge 4/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm  
Reference Value = 27.48 V/m; Power Drift = -0.09 dB  
Peak SAR (extrapolated) = 1.28 W/kg  
**SAR(1 g) = 0.639 W/kg; SAR(10 g) = 0.308 W/kg**  
Smallest distance from peaks to all points 3 dB below = 8.5 mm  
Ratio of SAR at M2 to SAR at M1 = 51.8 %

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 1.02 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



#### B.4 Plot No. W4.1

Full WCDMA B4 ch1312 Rear tilt ( Edge 4 ) 1712.4 MHz RMC 12.2 k  
08\_25\_2022\_Room1 Temp\_22.0 deg.C.\_Liquid Temp\_22.0 deg.C

#### Communication System info

Communication System: UID 0, #WCDMA (0)

Communication System Band: Band IV

Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.4, 8.4, 8.4) @ 1712.4 MHz

Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.29 \text{ S/m}$ ;  $\epsilon_r = 39.195$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP;1203

Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**WCDMA/WCDMA4 ch1312 1712.4 MHz RMC 12.2 k Rear tilt Edge 4 9 mm/Area Scan (101x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

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

**WCDMA/WCDMA4 ch1312 1712.4 MHz RMC 12.2 k Rear tilt Edge 4 9 mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 30.21 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.464 W/kg**

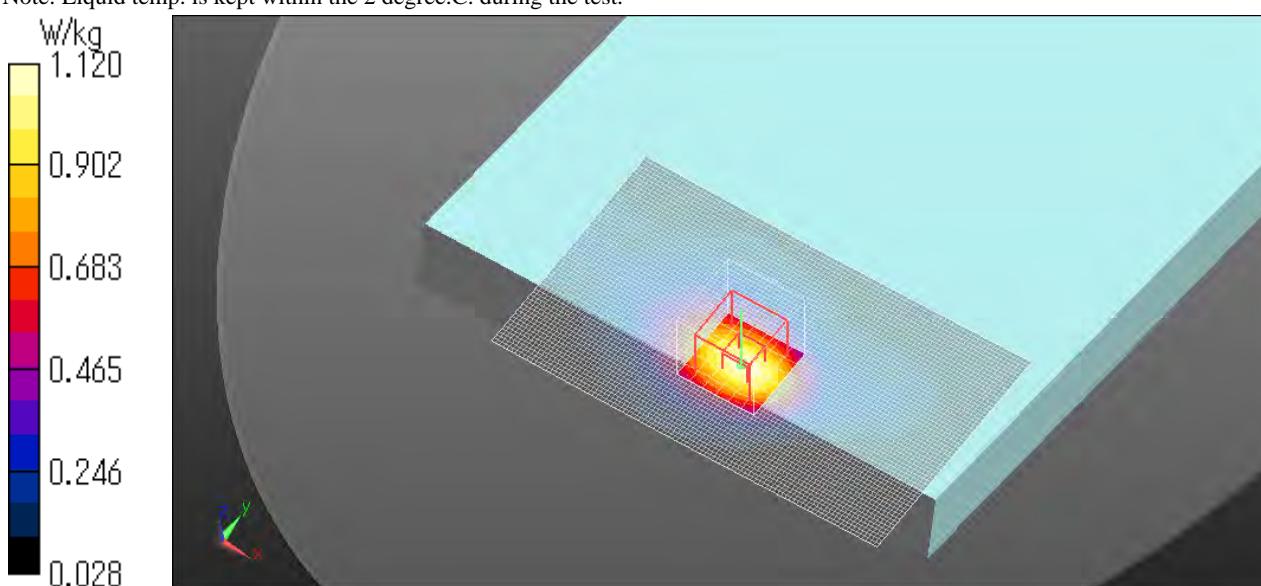
Smallest distance from peaks to all points 3 dB below = 15.3 mm

Ratio of SAR at M2 to SAR at M1 = 59 %

Info: Interpolated medium parameters used for SAR evaluation.

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.5 Plot No. W4.2

Reduction WCDMA B4 ch1413 Rear tilt (Edge 4) 1712.4 MHz RMC 12.2 k  
08\_31\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, #WCDMA (0)

Communication System Band: Band IV Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20

ConvF(8.66, 8.66, 8.66) @ 1712.4 MHz

Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.348 \text{ S/m}$ ;  $\epsilon_r = 40.448$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**red/WCDMA4(red) ch1312 1712.4 MHz RMC 12.2 k Rear tilt Edge 4 0 mm/Area Scan (101x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.30 W/kg

**red/WCDMA4(red) ch1312 1712.4 MHz RMC 12.2 k Rear tilt Edge 4 0 mm/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 31.49 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.444 W/kg**

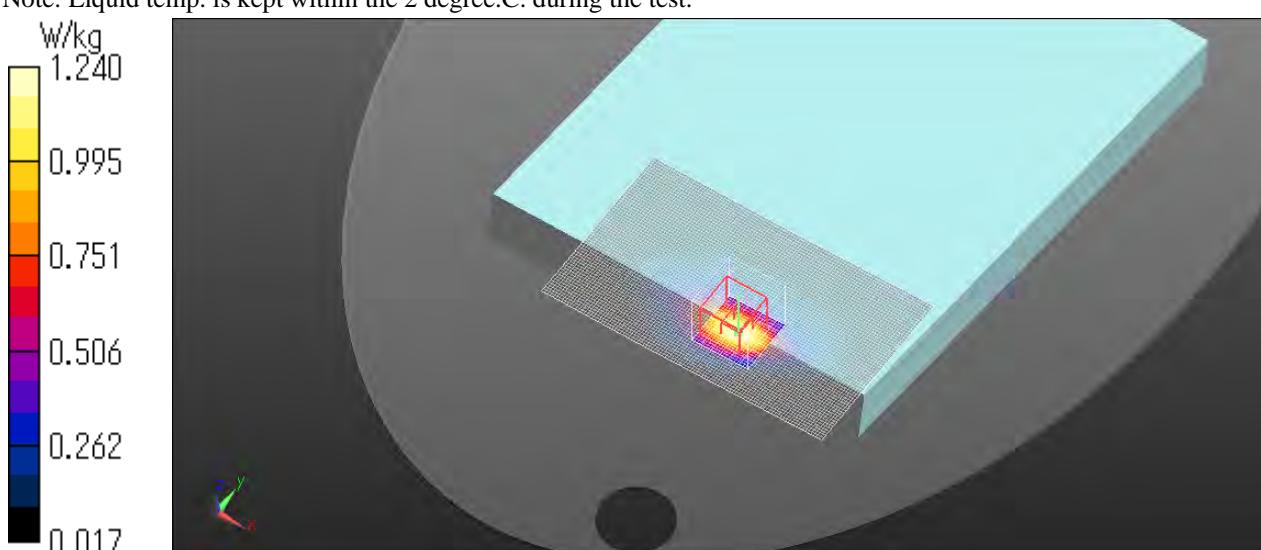
Smallest distance from peaks to all points 3 dB below = 11.2 mm

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

Info: Interpolated medium parameters used for SAR evaluation.

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.6 Plot No. W5.1

Full WCDMA B5 ch4183 Rear tilt Edge 4 836.6 MHz RMC 12.2k  
08\_30\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, #WCDMA (0)

Communication System Band: Band VDuty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20

ConvF(9.57, 9.57, 9.57) @ 836.6 MHz

Medium parameters used (interpolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.967 \text{ S/m}$ ;  $\epsilon_r = 41.725$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**ful/WCDMA B5 ch4183 836.6 MHz RMS 12.2k Rear tilt Edge 4 9 mm/Area Scan (101x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.890 W/kg

**ful/WCDMA B5 ch4183 836.6 MHz RMS 12.2k Rear tilt Edge 4 9 mm/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 31.43 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.425 W/kg** (SAR corrected for target medium)

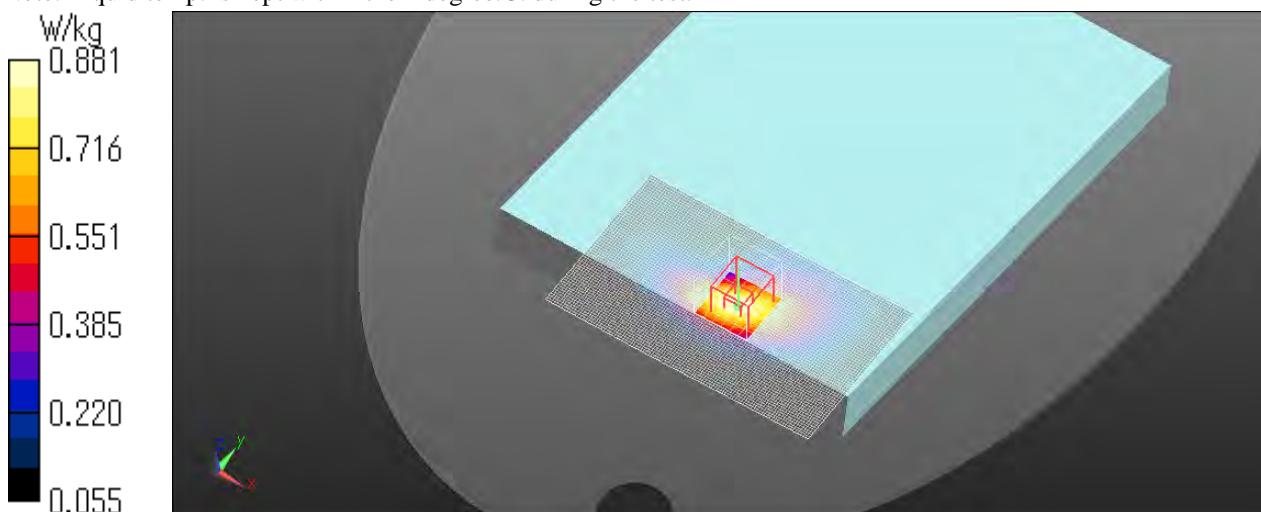
Smallest distance from peaks to all points 3 dB below = 14.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.7 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.881 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.7 Plot No. W5.2  
Reduction WCDMA B5 ch4233 Edge 4 846.6 MHz RMC 12.2 k  
**08\_29\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C**

#### Communication System info

Communication System: UID 0, #WCDMA (0)  
Communication System Band: Band VDuty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(9.57, 9.57, 9.57) @ 846.6 MHz  
Medium parameters used (interpolated):  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.972 \text{ S/m}$ ;  $\epsilon_r = 41.698$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**red/WCDMA B5 ch4233 846.6 MHz RMS 12.2 k/Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 0.984 W/kg

**red/WCDMA B5 ch4233 846.6 MHz RMS 12.2 k/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 31.50 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.27 W/kg

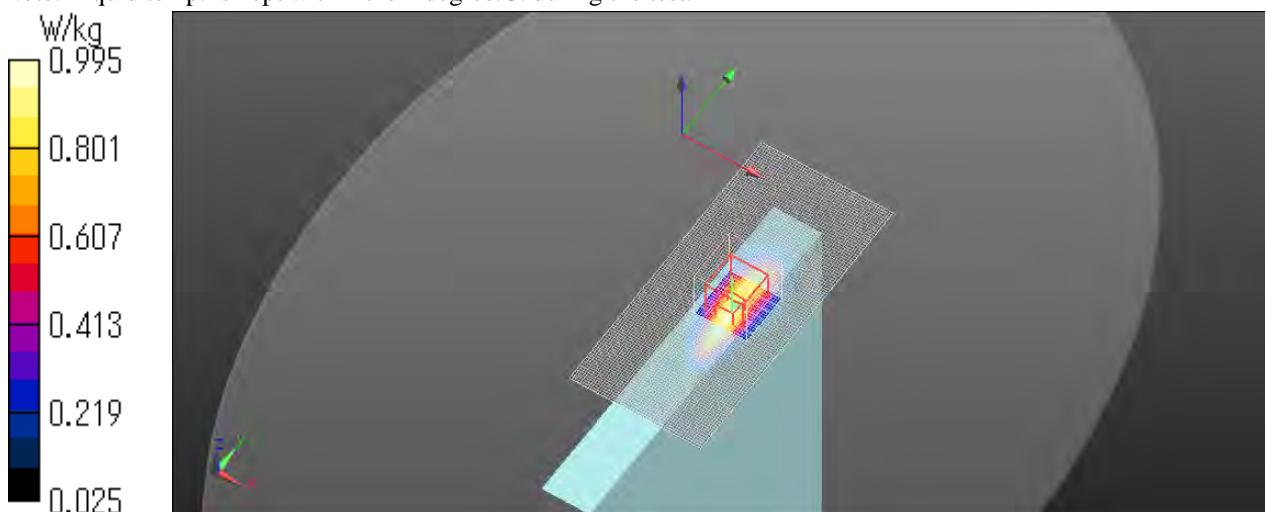
**SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.329 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 50.2 %

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 0.995 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.8 Plot No. L2.1

Band 2\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 18700\_1860 MHz\_BW 20\_RBN. 1\_RBP. 0  
**06\_24\_2022\_Room1 Temp\_23.0 deg.C. Liquid Temp\_22.4 deg.C**

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz)Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.18, 8.18, 8.18) @ 1860 MHz

Medium parameters used:  $f = 1860 \text{ MHz}$ ;  $\sigma = 1.418 \text{ S/m}$ ;  $\epsilon_r = 39.734$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Full/ LTE B2 ch18700 1860 MHz QPSK N/A Rear 0 mm 20 MHz RBn1 RBp0/Area Scan (101x71x1):**

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.09 W/kg

**Full/ LTE B2 ch18700 1860 MHz QPSK N/A Rear 0 mm 20 MHz RBn1 RBp0/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 28.49 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.449 W/kg**

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 58.3 %

Maximum value of SAR (measured) = 1.08 W/kg

**Full/ LTE B2 ch18700 1860 MHz QPSK N/A Rear 0 mm 20 MHz RBn1 RBp0/Zoom Scan 2 (7x7x7)/Cube 0:**

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 28.00 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.00 W/kg

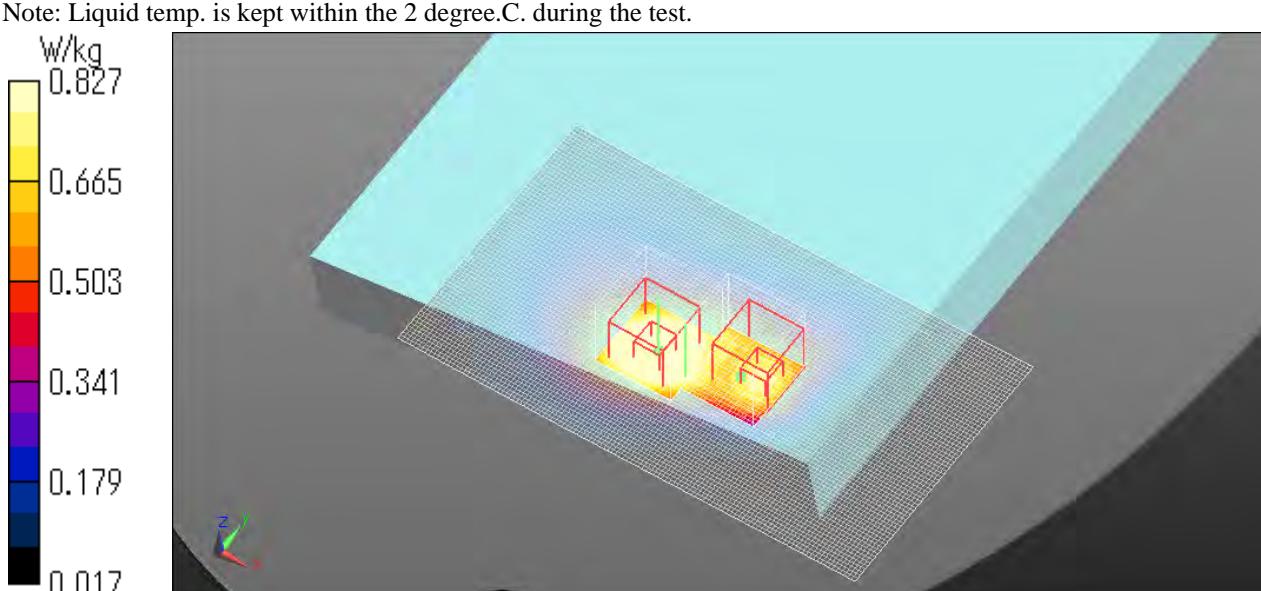
**SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.323 W/kg**

Smallest distance from peaks to all points 3 dB below = 23.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.9 %

Maximum value of SAR (measured) = 0.827 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.9 Plot No. L2.2  
Band 2\_Edge 4\_Mod QPSK\_Ch 18700\_1860 MHz\_BW 20\_RBN. 100\_RBP. 0  
**08\_25\_2022\_Room3 Temp\_24.0 deg.C.\_Liquid Temp\_23.5 degC**

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)  
Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19  
ConvF(7.53, 7.53, 7.53) @ 1860 MHz  
Medium parameters used:  $f = 1860 \text{ MHz}$ ;  $\sigma = 1.42 \text{ S/m}$ ;  $\epsilon_r = 38.556$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

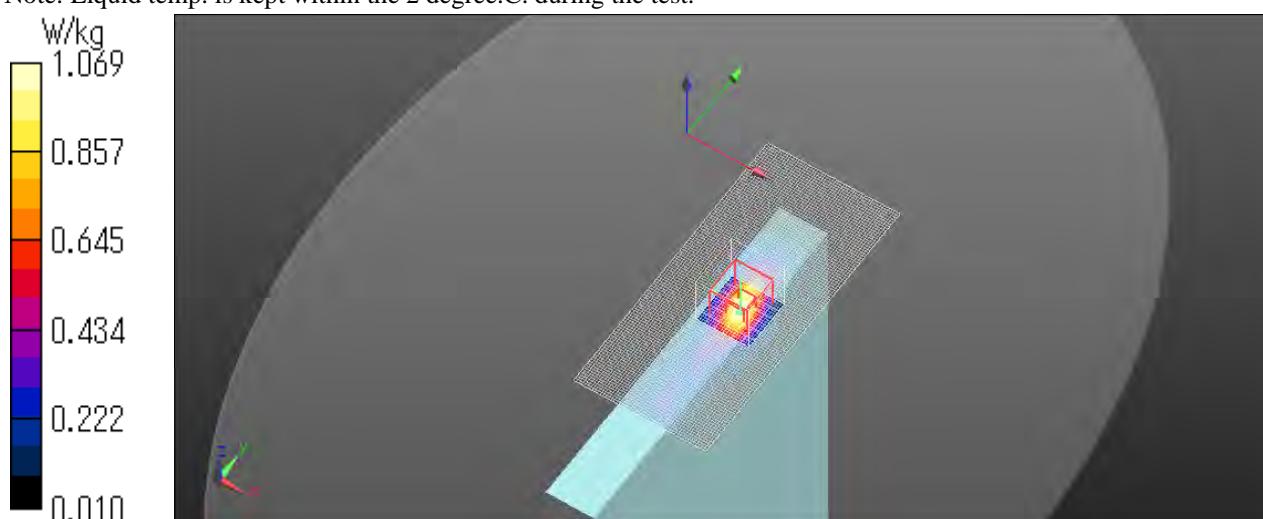
#### red/LTE B2 ch18700 1860 MHz QPSK N/A Edge 4 0 mm 20 MHz RBn100 RBp0/Area Scan (51x111x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.09 W/kg

#### red/LTE B2 ch18700 1860 MHz QPSK N/A Edge 4 0 mm 20 MHz RBn100 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$   
Reference Value = 28.56 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 1.31 W/kg  
**SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.329 W/kg**  
Smallest distance from peaks to all points 3 dB below = 8.5 mm  
Ratio of SAR at M2 to SAR at M1 = 52.6 %  
Maximum value of SAR (measured) = 1.07 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.10 Plot No. L4.1

Band 4\_Rear tilt(Edge 4 side)\_Mod QPSK\_Ch 20175\_1732.5 MHz\_BW 20\_RBN. 100\_RBP. 0  
08\_23\_2022\_Room1 Temp\_22.0 deg.C. Liquid Temp\_22.0 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz)Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.4, 8.4, 8.4) @ 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5 \text{ MHz}$ ;  $\sigma = 1.301 \text{ S/m}$ ;  $\epsilon_r = 39.166$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/LTE B4 ch20175 1732.5 MHz QPSK N/A Rear tilt Edge 4 9 mm 20MHz RBn100 RBp0/Area Scan

(101x61x1): Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.993 W/kg

#### Full/LTE B4 ch20175 1732.5 MHz QPSK N/A Rear tilt Edge 4 9 mm 20MHz RBn100 RBp0/Zoom Scan

(7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 28.32 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.696 W/kg; SAR(10 g) = 0.413 W/kg**

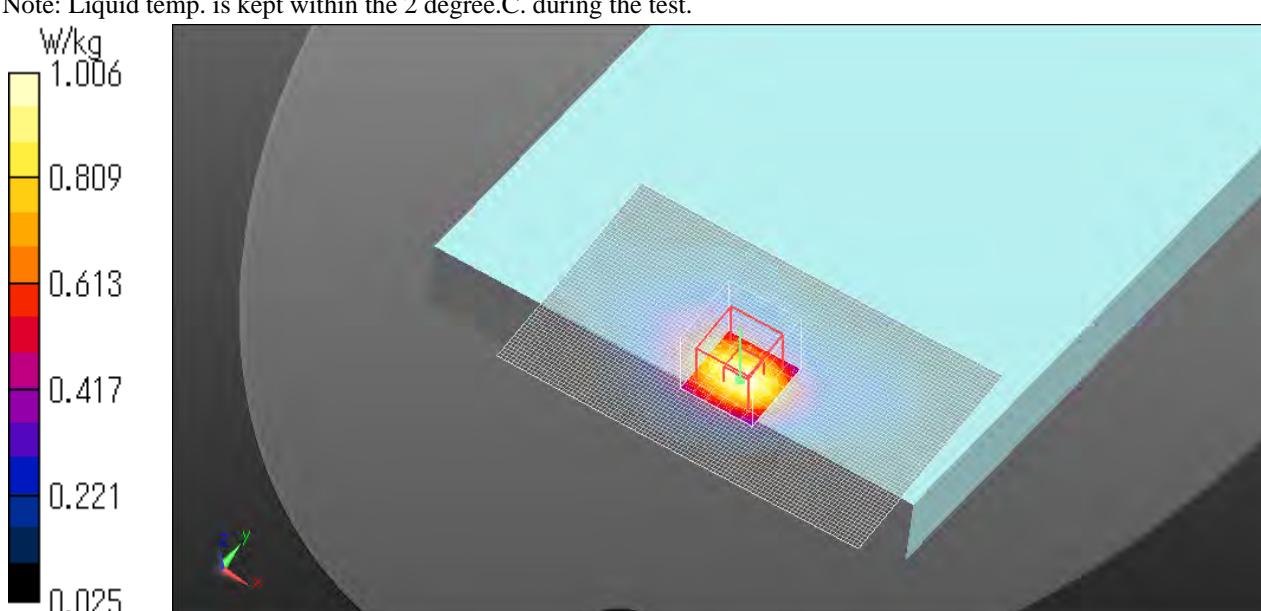
Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 58.8 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.01 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.11 Plot No. L4.2

Band 4\_Edge 4 side\_Mod QPSK\_Ch 20175\_1732.5 MHz\_BW 20\_RBn. 100\_RBP. 0

08\_24\_2022\_Room1 Temp\_22.0 deg.C.\_Liquid Temp\_22.0 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz)Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.4, 8.4, 8.4) @ 1732.5 MHz

Medium parameters used (interpolated):  $f = 1732.5 \text{ MHz}$ ;  $\sigma = 1.301 \text{ S/m}$ ;  $\epsilon_r = 39.166$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Red/LTE B4 ch20175 1732.5 MHz QPSK N/A red Edge 4 0 mm 20 MHz RBn100 RBp0/Area Scan (51x111x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

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

#### Red/LTE B4 ch20175 1732.5 MHz QPSK N/A red Edge 4 0 mm 20 MHz RBn100 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 30.09 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.712 W/kg; SAR(10 g) = 0.362 W/kg**

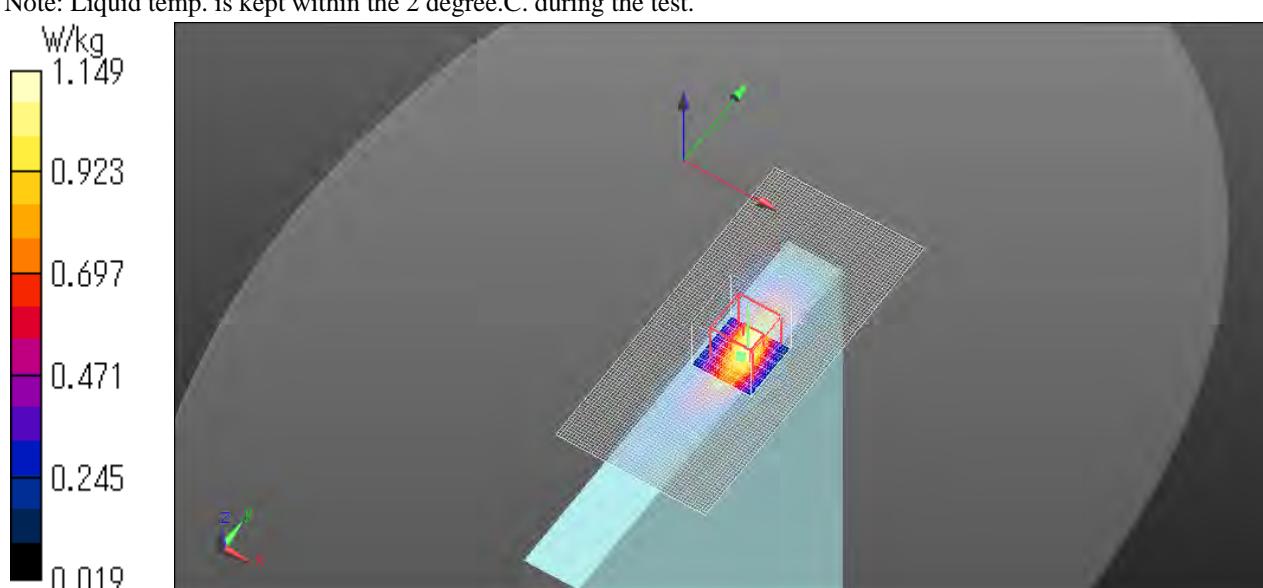
Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.4 %

Info: Interpolated medium parameters used for SAR evaluation.

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.12 Plot No. L5.1

Band 5\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 20525\_836.5 MHz\_BW 10\_RBn. 1\_RBp. 0  
06\_23\_2022\_Room1 Temp\_23.0 deg.C. Liquid Temp\_22.4 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(9.71, 9.71, 9.71) @ 836.5 MHz

Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.94 \text{ S/m}$ ;  $\epsilon_r = 41.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/LTE B5 ch20525 836.5 MHz QPSK N/A Rear 0 mm 10 MHz RBn1 RBp0/Area Scan (101x71x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.764 W/kg

#### Full/LTE B5 ch20525 836.5 MHz QPSK N/A Rear 0 mm 10 MHz RBn1 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 29.50 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.842 W/kg

**SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.378 W/kg**

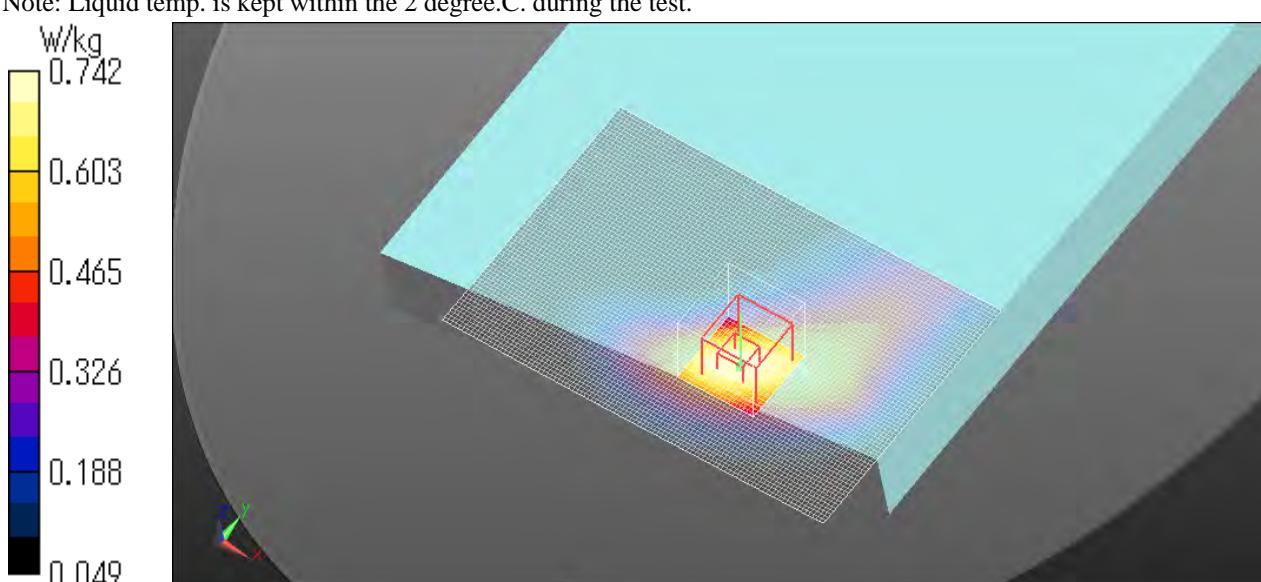
Smallest distance from peaks to all points 3 dB below = 18.4 mm

Ratio of SAR at M2 to SAR at M1 = 67.2 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.742 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.13 Plot No. L5.2

Band 5\_Edge 4\_Mod QPSK\_Ch 20525\_836.5 MHz\_BW 10\_RBN. 50\_RBp. 0

08\_26\_2022\_Room3 Temp\_24.0 degC. Liquid Temp\_23.5 degC

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(8.97, 8.97, 8.97) @ 836.5 MHz

Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.92 \text{ S/m}$ ;  $\epsilon_r = 41.126$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**red/LTE B5 ch20525 836.5 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn50 RBp0/Area Scan (51x111x1):**

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.03 W/kg

**red/LTE B5 ch20525 836.5 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn50 RBp0/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 35.35 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.38 W/kg

**SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.325 W/kg**

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 45.9 %

Info: Interpolated medium parameters used for SAR evaluation.

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

**red/LTE B5 ch20525 836.5 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn50 RBp0/Zoom Scan 2 (7x7x7)/Cube 0:**

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 35.35 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.309 W/kg**

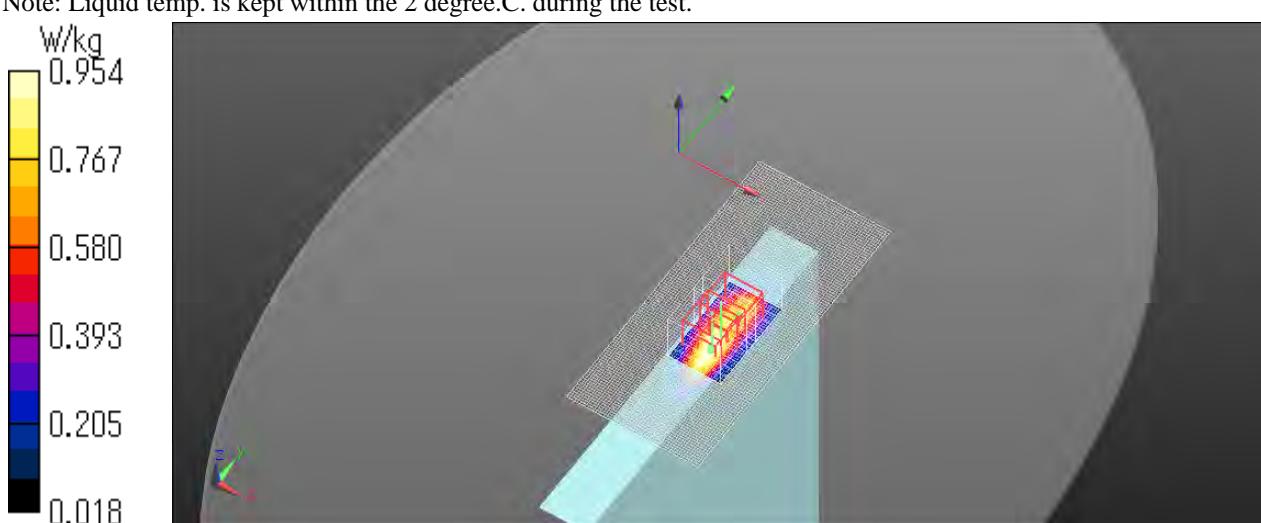
Smallest distance from peaks to all points 3 dB below = 9 mm

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.954 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.14 Plot No. L7.1

Band 7\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 20850\_2510 MHz\_BW 20\_RBN. 50\_RBP. 50  
09\_06\_2022\_Room1 Temp\_23.5 deg.C. Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz)Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.47, 7.47, 7.47) @ 2510 MHz

Medium parameters used:  $f = 2510 \text{ MHz}$ ;  $\sigma = 1.834 \text{ S/m}$ ;  $\epsilon_r = 39.652$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration/LTE B7 ch20850 2510 MHz QPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn50 RBp50/Area

Scan (101x71x1): Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 1.01 W/kg

#### Configuration/LTE B7 ch20850 2510 MHz QPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn50 RBp50/Zoom

Scan (7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 23.97 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.27 W/kg

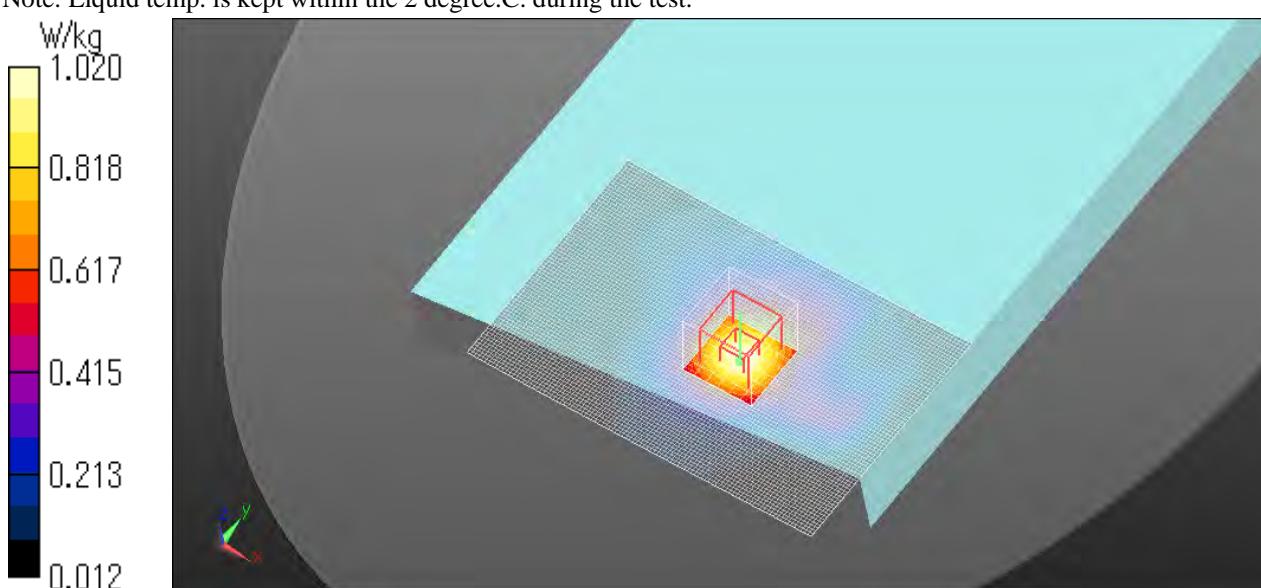
**SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.367 W/kg**

Smallest distance from peaks to all points 3 dB below = 20 mm

Ratio of SAR at M2 to SAR at M1 = 50.7 %

Maximum value of SAR (measured) = 1.02 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.15 Plot No. L7.2  
Band 7\_Edge 4\_Mod QPSK\_Ch 20850\_2510 MHz\_BW 20\_RBN.50\_RBP.50  
**09\_08\_2022\_N\_Room1 Temp\_23.5 deg.C.\_Liquid Temp\_23.5 deg.C**

#### Communication System info

Communication System: UID 0, #Generic LTE (0)  
Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17  
ConvF(7.47, 7.47, 7.47) @ 2510 MHz  
Medium parameters used:  $f = 2510 \text{ MHz}$ ;  $\sigma = 1.834 \text{ S/m}$ ;  $\epsilon_r = 39.652$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

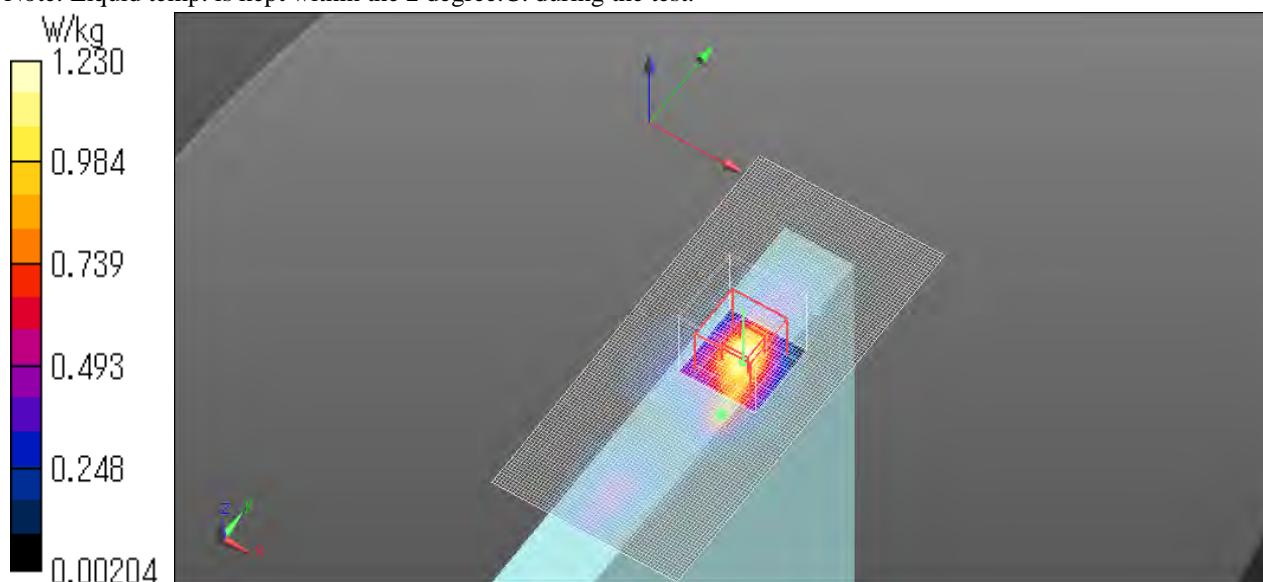
#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1203  
**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Configuration/LTE B7 ch20850 2510 MHz QPSK N/A Edge 4 0 mm 20 MHz RBn50 RBp50/Area Scan (61x131x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.14 W/kg

**Configuration/LTE B7 ch20850 2510 MHz QPSK N/A Edge 4 0 mm 20 MHz RBn50 RBp50/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$   
Reference Value = 26.35 V/m; Power Drift = -0.08 dB  
Peak SAR (extrapolated) = 1.60 W/kg  
**SAR(1 g) = 0.715 W/kg; SAR(10 g) = 0.324 W/kg**  
Smallest distance from peaks to all points 3 dB below = 8.1 mm  
Ratio of SAR at M2 to SAR at M1 = 45.9 %  
Maximum value of SAR (measured) = 1.23 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.16 Plot No. L12.1

Band 12\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 23095\_707.5 MHz\_BW 10\_RBN. 1\_RBp. 49  
06\_23\_2022\_Room1 Temp\_23.0 deg.C.\_Liquid Temp\_22.4 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz)Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(10.11, 10.11, 10.11) @ 707.5 MHz

Medium parameters used (interpolated):  $f = 707.5 \text{ MHz}$ ;  $\sigma = 0.905 \text{ S/m}$ ;  $\epsilon_r = 42.006$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt) / Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/LTE B12 ch23095 707.5 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp49/Area Scan

(101x71x1): Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.381 W/kg

#### Full/LTE B12 ch23095 707.5 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp49/Zoom Scan

(7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 21.76 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.429 W/kg

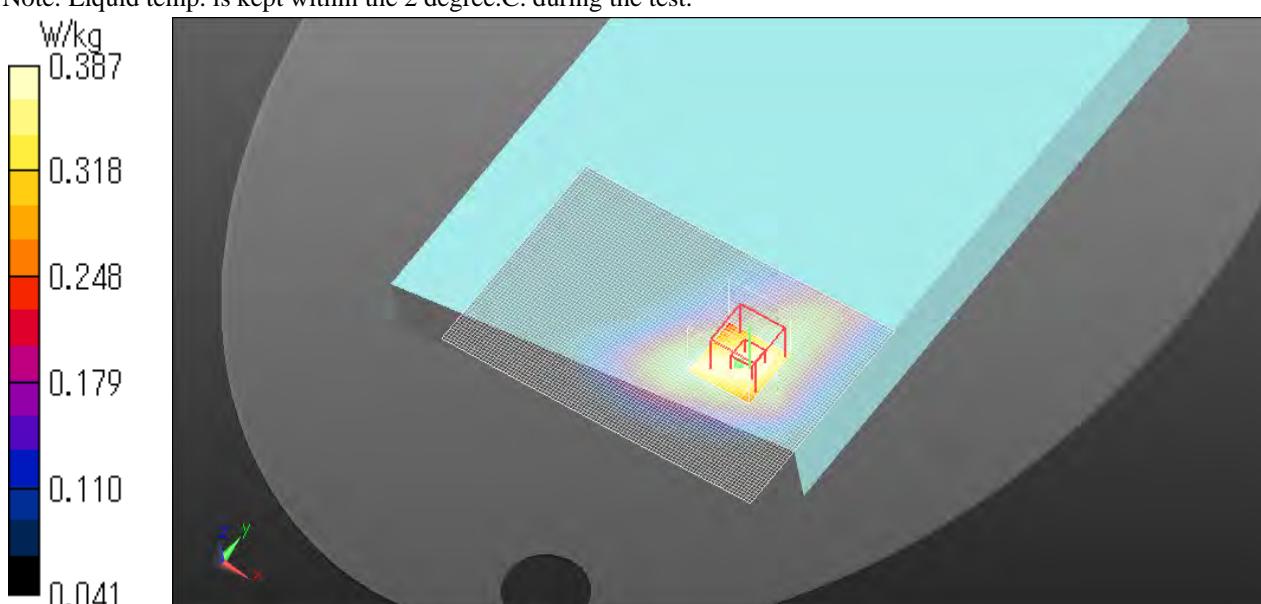
**SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.220 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 72 %

Maximum value of SAR (measured) = 0.387 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.17 Plot No. L12.2  
Band 12\_Edge 4\_Mod QPSK\_Ch 23095\_707.5 MHz\_BW 10\_RBN. 25\_RBP. 12  
08\_26\_2022\_Room3 Temp\_24.0 deg.C.\_Liquid Temp\_23.5 degC

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)  
Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19  
ConvF(9.35, 9.35, 9.35) @ 707.5 MHz  
Medium parameters used (interpolated):  $f = 707.5 \text{ MHz}$ ;  $\sigma = 0.893 \text{ S/m}$ ;  $\epsilon_r = 41.121$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### red/LTE B12 ch23095 707.5 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn25 RBp12/Area Scan (51x111x1):

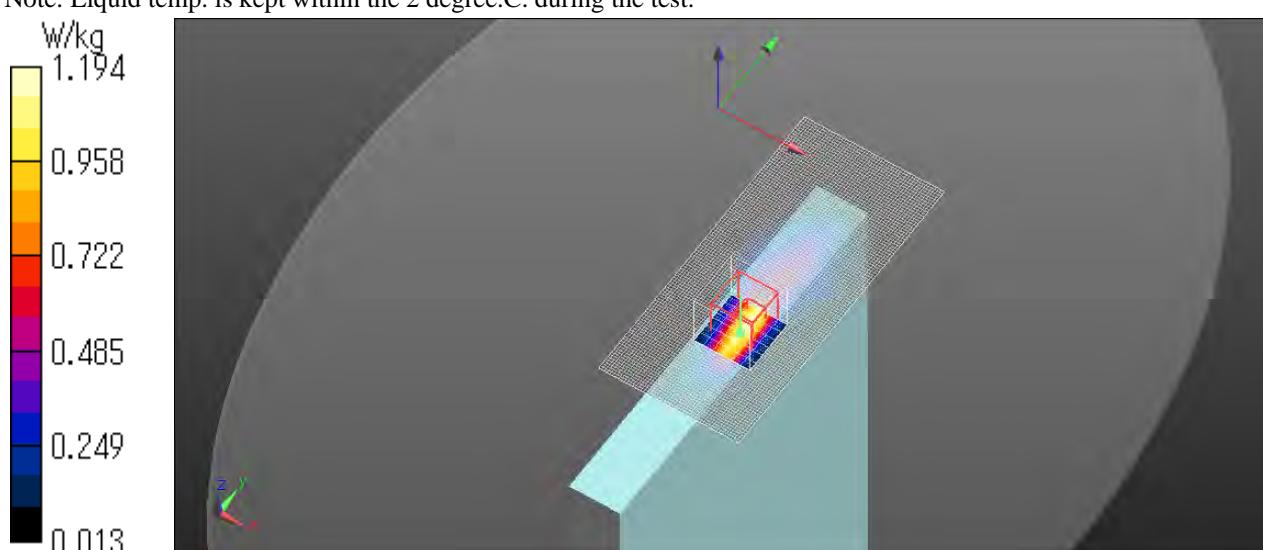
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 1.25 W/kg

#### red/LTE B12 ch23095 707.5 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn25 RBp12/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$   
Reference Value = 38.62 V/m; Power Drift = -0.11 dB  
Peak SAR (extrapolated) = 1.72 W/kg  
**SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.316 W/kg**  
Smallest distance from peaks to all points 3 dB below = 7 mm  
Ratio of SAR at M2 to SAR at M1 = 38.6 %  
Info: Interpolated medium parameters used for SAR evaluation.

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.18 Plot No. L13.1

Band 13\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 23230\_782 MHz\_BW 10\_RBn. 1\_RBp. 0  
06\_23\_2022\_Room1 Temp\_23.0 deg.C.\_Liquid Temp\_22.4 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(10.11, 10.11, 10.11) @ 782 MHz

Medium parameters used (interpolated):  $f = 782 \text{ MHz}$ ;  $\sigma = 0.924 \text{ S/m}$ ;  $\epsilon_r = 41.797$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/LTE B13 ch23230 782 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp0/Area Scan (101x71x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.605 W/kg

#### Full/LTE B13 ch23230 782 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 26.85 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.675 W/kg

**SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.318 W/kg**

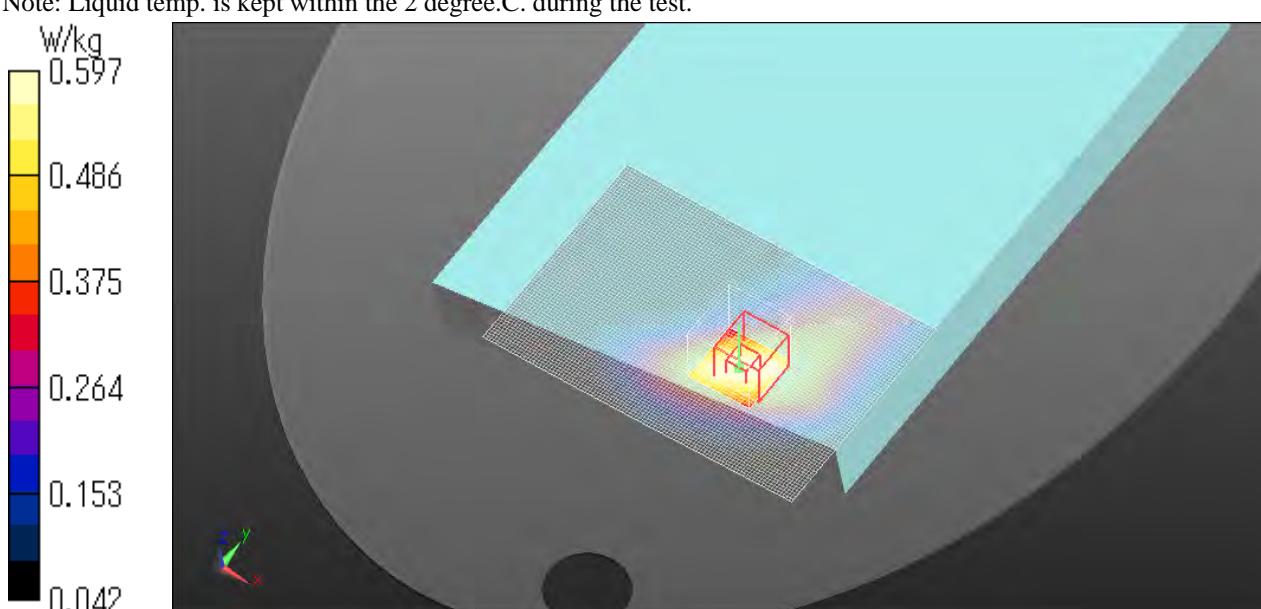
Smallest distance from peaks to all points 3 dB below = 20.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.1 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.597 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.19 Plot No. L13.2  
Band 13\_Edge 4\_Mod QPSK\_Ch 23230\_782 MHz\_BW 10\_RBN. 25\_RBp. 12  
08\_29\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)  
Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(9.83, 9.83, 9.83) @ 782 MHz  
Medium parameters used (interpolated):  $f = 782 \text{ MHz}$ ;  $\sigma = 0.939 \text{ S/m}$ ;  $\epsilon_r = 41.938$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### red/LTE B13 ch23230 782 MHz QPSK N/A Edge 0 mm 10 MHz RBn25 RBp12/Area Scan (51x111x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.876 W/kg

#### red/LTE B13 ch23230 782 MHz QPSK N/A Edge 0 mm 10 MHz RBn25 RBp12/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 33.83 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.319 W/kg** (SAR corrected for target medium)

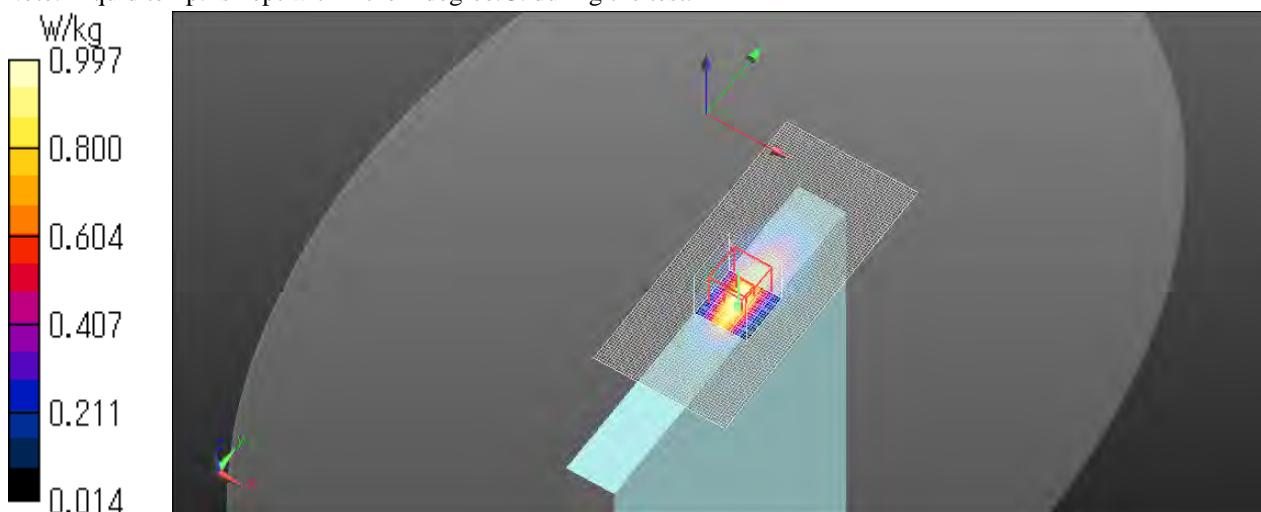
Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 46.8 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.997 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.20 Plot No. L14.1

Band 14\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 23330\_793 MHz\_BW 10\_RBn. 1\_RBp. 0  
06\_23\_2022\_Room1 Temp\_23.0 deg.C.\_Liquid Temp\_22.4 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 14, E-UTRA/FDD (788.0 - 798.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(10.11, 10.11, 10.11) @ 793 MHz

Medium parameters used (interpolated):  $f = 793 \text{ MHz}$ ;  $\sigma = 0.927 \text{ S/m}$ ;  $\epsilon_r = 41.752$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/LTE B14 ch23330 793 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp0/Area Scan (101x71x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.677 W/kg

#### Full/LTE B14 ch23330 793 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp0/Zoom Scan

(7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 28.12 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.756 W/kg

**SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.356 W/kg**

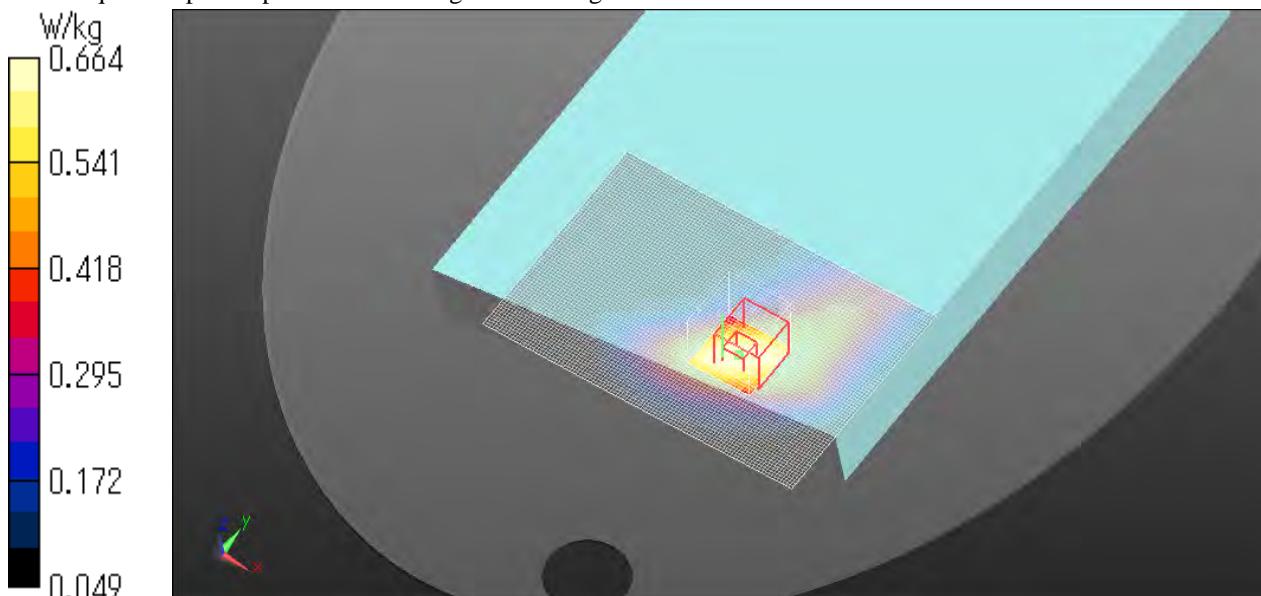
Smallest distance from peaks to all points 3 dB below = 21.4 mm

Ratio of SAR at M2 to SAR at M1 = 67.1 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.664 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.21 Plot No. L14.2  
Band 14\_Edge 4\_Mod QPSK\_Ch 23330\_793 MHz\_BW 10\_RBN. 25\_RBp. 12  
08\_29\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)  
Communication System Band: Band 14, E-UTRA/FDD (788.0 - 798.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(9.83, 9.83, 9.83) @ 793 MHz  
Medium parameters used (interpolated):  $f = 793 \text{ MHz}$ ;  $\sigma = 0.944 \text{ S/m}$ ;  $\epsilon_r = 41.897$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration/LTE B14 ch23330 793 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn25 RBp12/Area Scan

(51x111x1): Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 0.952 W/kg

#### Configuration/LTE B14 ch23330 793 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn25 RBp12/Zoom Scan

(7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 32.94 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.334 W/kg** (SAR corrected for target medium)

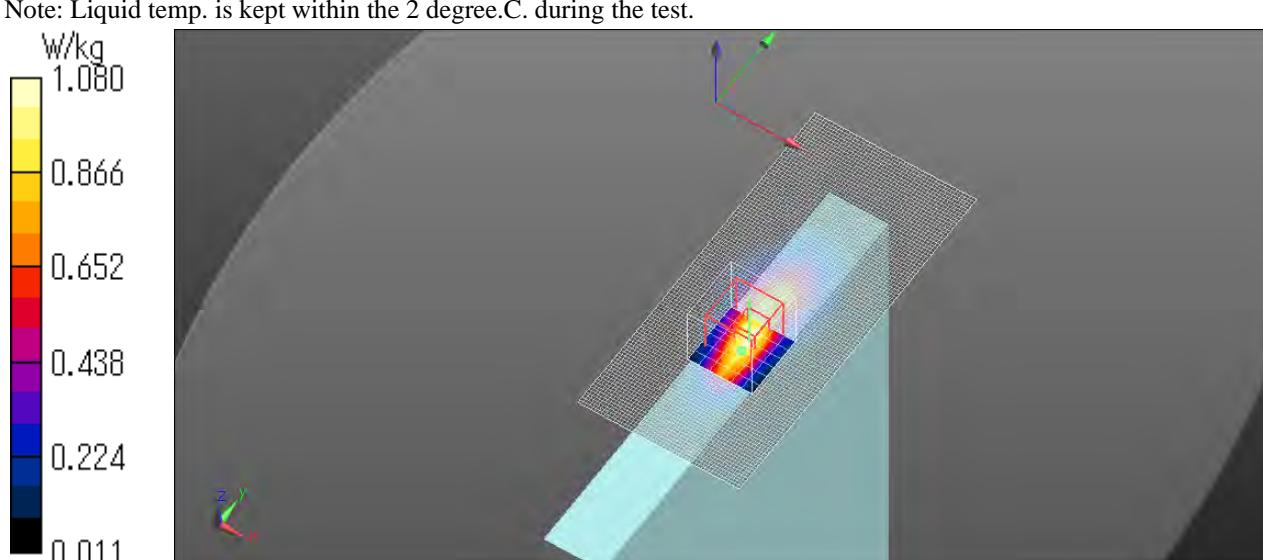
Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 48.1 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.08 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.22 Plot No. L17.1

Band 17\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 23790\_710 MHz\_BW 10\_RBn. 1\_RBp. 49  
06\_23\_2022\_Room1 Temp\_23.0 deg.C.\_Liquid Temp\_22.4 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 17, E-UTRA/FDD (704.0 - 716.0 MHz)Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(10.11, 10.11, 10.11) @ 710 MHz

Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.906 \text{ S/m}$ ;  $\epsilon_r = 41.992$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/LTE B17 ch23790 710 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp49/Area Scan

(101x71x1): Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.389 W/kg

#### Full/LTE B17 ch23790 710 MHz QPSK N/A Rear tilt Edge 1 0 mm 10 MHz RBn1 RBp49/Zoom Scan

(7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 21.66 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.438 W/kg

**SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.217 W/kg**

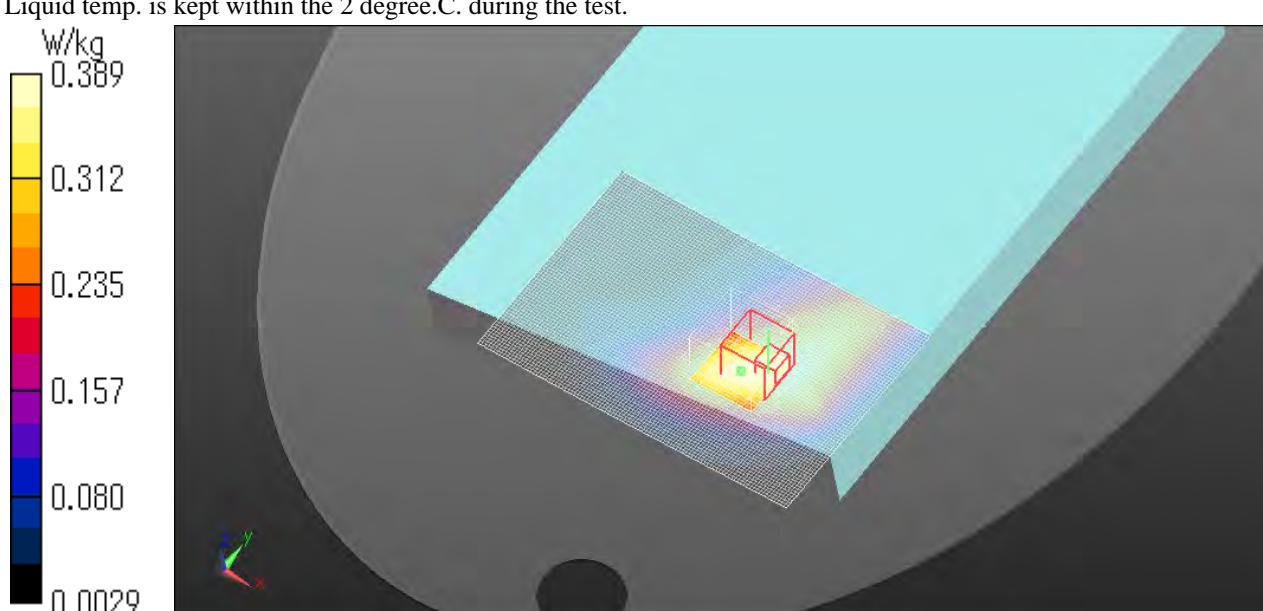
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 71.3 %

Maximum value of SAR (measured) = 0.396 W/kg

#### Note

Liquid temp. is kept within the 2 degree.C. during the test.



B.23 Plot No. L17.2  
Band 17\_Edge 4\_Mod QPSK\_Ch 23790\_710 MHz\_BW 10\_RBN.25\_RBp.25  
08\_24\_2022\_Room3 Temp\_24.0 deg.C.\_Liquid Temp\_23.5 degC

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)  
Communication System Band: Band 17, E-UTRA/FDD (704.0 - 716.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19  
ConvF(9.35, 9.35, 9.35) @ 710 MHz  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.894 \text{ S/m}$ ;  $\epsilon_r = 41.123$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

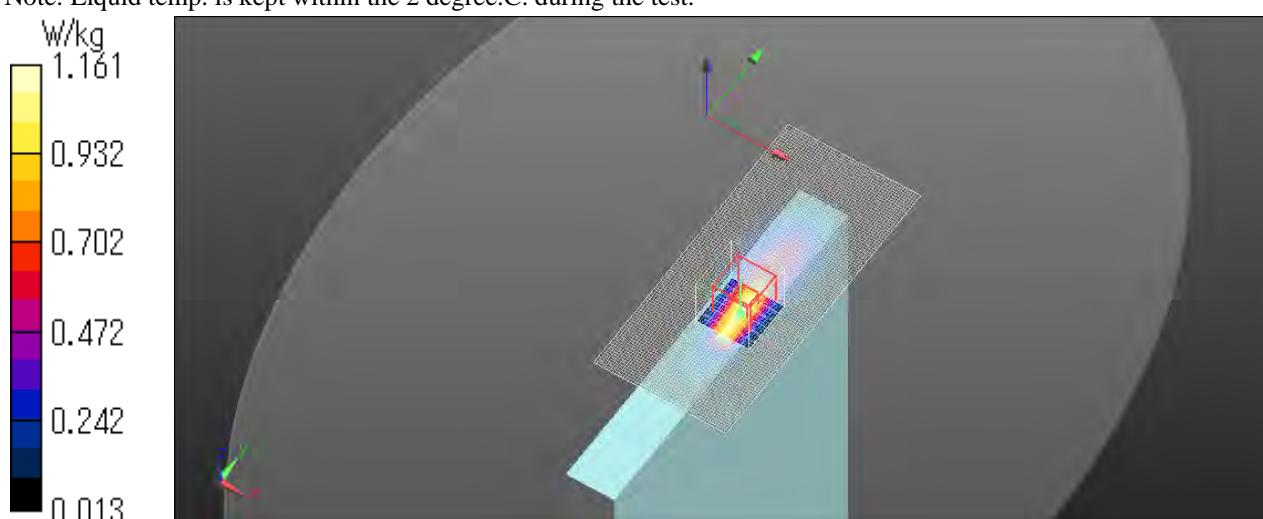
Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**red/LTE B17 ch23790 710 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn25 RBp25/Area Scan (51x111x1):**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.17 W/kg

**red/LTE B17 ch23790 710 MHz QPSK N/A Edge 4 0 mm 10 MHz RBn25 RBp25/Zoom Scan (7x7x7)/Cube 0:**  
Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm  
Reference Value = 38.07 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 1.66 W/kg  
**SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.316 W/kg**  
Smallest distance from peaks to all points 3 dB below = 7 mm  
Ratio of SAR at M2 to SAR at M1 = 40.8 %  
Maximum value of SAR (measured) = 1.16 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.24 Plot No. L25.1

Band 25\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 26140\_1860 MHz\_BW 20\_RBN. 1\_RBP. 0

06\_23\_2022\_Room1 Temp\_23.0 deg.C. Liquid Temp\_22.4 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.18, 8.18, 8.18) @ 1860 MHz

Medium parameters used:  $f = 1860 \text{ MHz}$ ;  $\sigma = 1.418 \text{ S/m}$ ;  $\epsilon_r = 39.734$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Full/LTE B25 ch26140 1860 MHz QPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn1 RBp0/Area Scan (101x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.04 W/kg

**Full/LTE B25 ch26140 1860 MHz QPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn1 RBp0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 27.96 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.436 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.1 %

Maximum value of SAR (measured) = 1.04 W/kg

**Full/LTE B25 ch26140 1860 MHz QPSK N/A Rear 0 mm 20 MHz RBn1 RBp0/Zoom Scan 2 (7x7x7)/Cube 0:**

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 27.96 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.910 W/kg

**SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.306 W/kg**

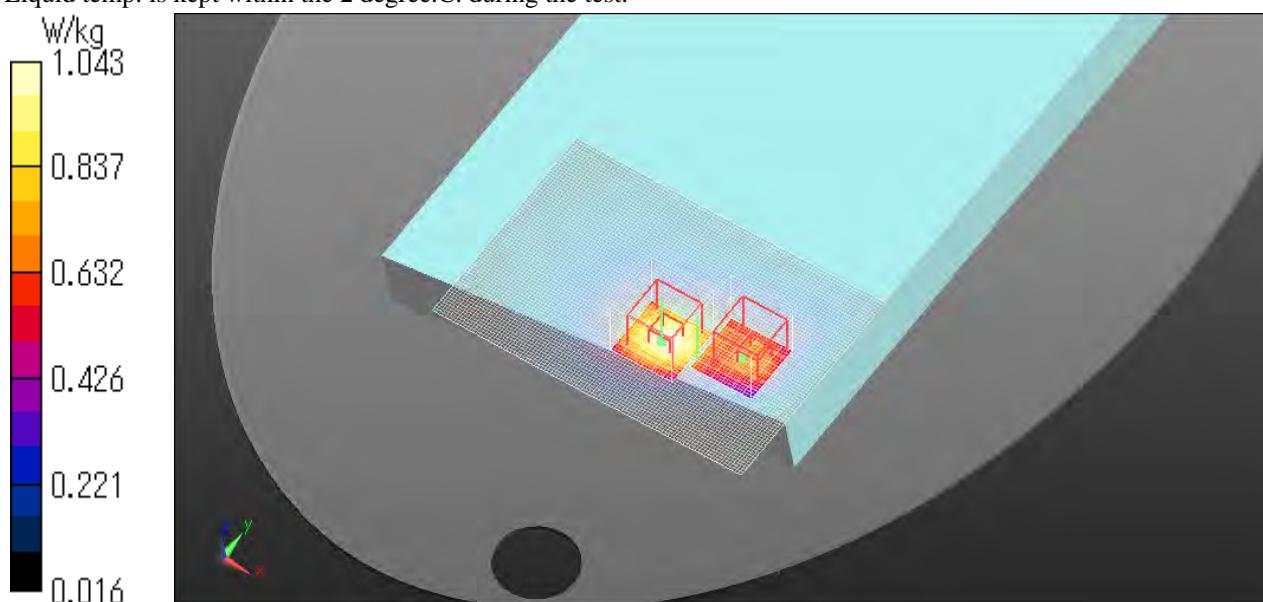
Smallest distance from peaks to all points 3 dB below = 23.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.1 %

Maximum value of SAR (measured) = 0.755 W/kg

Note

Liquid temp. is kept within the 2 degree.C. during the test.



B.25 Plot No. L25.2  
Band 25\_Edge 4\_Mod QPSK\_Ch 26140\_1860 MHz\_BW 20\_RBN. 100\_RBP. 0  
**08\_25\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 degC**

#### Communication System info

Communication System: UID 0, #Generic LTE (0)  
Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19  
ConvF(7.53, 7.53, 7.53) @ 1860 MHz  
Medium parameters used:  $f = 1860 \text{ MHz}$ ;  $\sigma = 1.42 \text{ S/m}$ ;  $\epsilon_r = 38.556$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### red/LTE B25 ch26140 1860 MHz QPSK N/A Edge 4 0 mm 20 MHz RBn100 RBp0/Area Scan (51x111x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

#### red/LTE B25 ch26140 1860 MHz QPSK N/A Edge 4 0 mm 20 MHz RBn100 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 28.27 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.30 W/kg

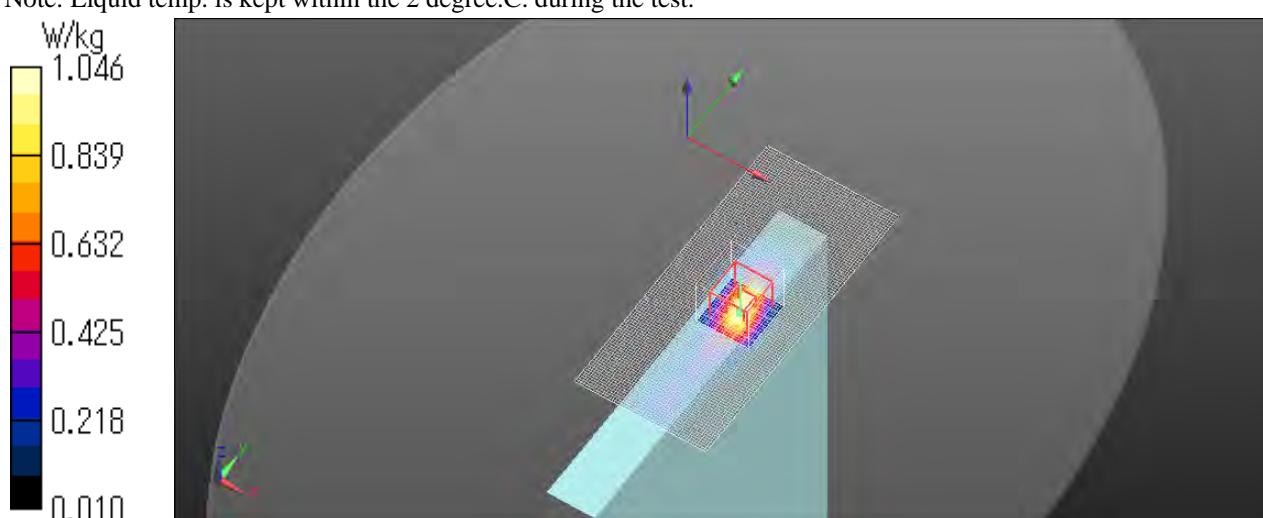
**SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.324 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 52.6 %

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.26 Plot No. L26.1

Band 26\_Rear tilt(Edge 4 side)\_Mod QPSK\_Ch 26865\_831.5 MHz\_BW 15\_RBN. 1\_RBp. 0  
08\_30\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 26, E-UTRA/FDD (814.0 - 849.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20

ConvF(9.57, 9.57, 9.57) @ 831.5 MHz

Medium parameters used (interpolated):  $f = 831.5 \text{ MHz}$ ;  $\sigma = 0.964 \text{ S/m}$ ;  $\epsilon_r = 41.742$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**ful/LTE B26 ch26865 831.5 MHz QPSK N/A Rear tilt Edge 4 9 mm 15 MHz RBn1 RBp0/Area Scan (101x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.879 W/kg

**ful/LTE B26 ch26865 831.5 MHz QPSK N/A Rear tilt Edge 4 9 mm 15 MHz RBn1 RBp0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5 mm, dy=5 mm, dz= 5mm

Reference Value = 31.50 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.419 W/kg** (SAR corrected for target medium)

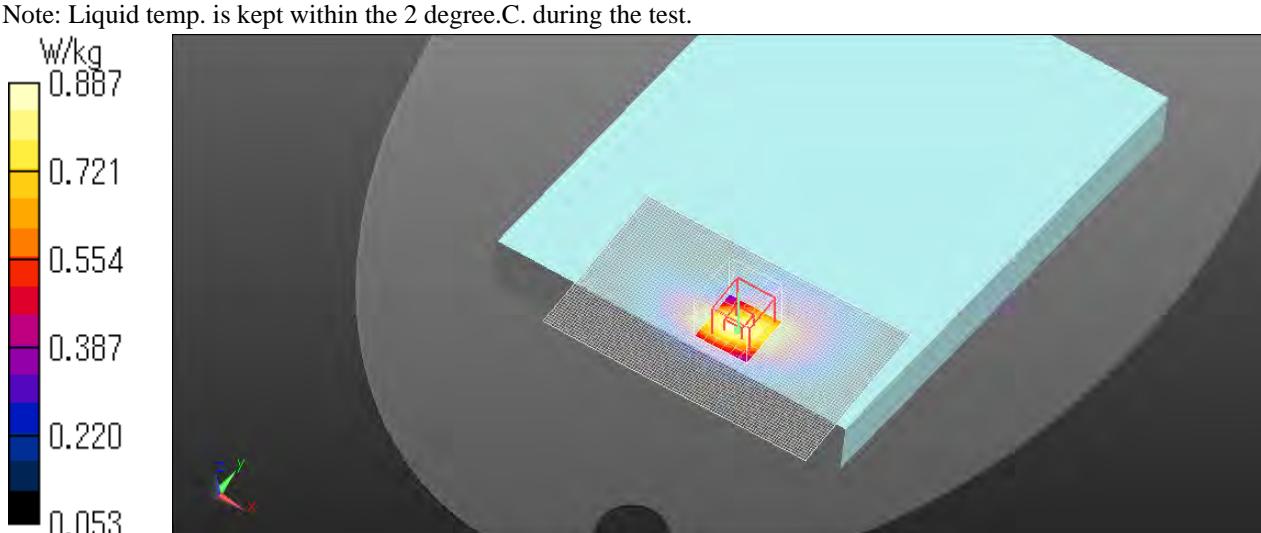
Smallest distance from peaks to all points 3 dB below = 15.5 mm

Ratio of SAR at M2 to SAR at M1 = 64.4 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.887 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.27 Plot No. L26.2  
Band 26\_Edge 4\_Mod QPSK\_Ch 26865\_831.5 MHz\_BW 15\_RBN. 75\_RBP. 0  
**08\_24\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 degC**

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)  
Communication System Band: Band 26, E-UTRA/FDD (814.0 - 849.0 MHz)Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19  
ConvF(8.97, 8.97, 8.97) @ 831.5 MHz  
Medium parameters used (interpolated):  $f = 831.5 \text{ MHz}$ ;  $\sigma = 0.919 \text{ S/m}$ ;  $\epsilon_r = 41.131$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

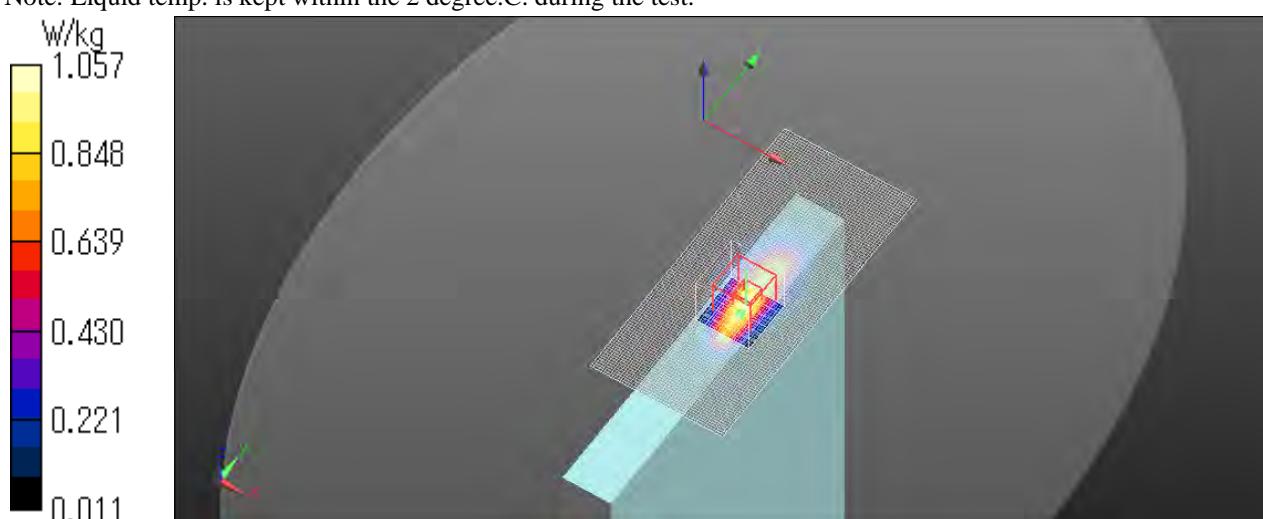
**red/LTE B26 ch26865 831.5 MHz QPSK N/A Edge 4 0 mm 15 MHz RBn75 RBp0/Area Scan (51x111x1):**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 1.02 W/kg

**red/LTE B26 ch26865 831.5 MHz QPSK N/A Edge 4 0 mm 15 MHz RBn75 RBp0/Zoom Scan (7x7x7)/Cube 0:**  
Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm  
Reference Value = 35.28 V/m; Power Drift = -0.06 dB  
Peak SAR (extrapolated) = 1.39 W/kg  
**SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.324 W/kg**  
Smallest distance from peaks to all points 3 dB below = 8 mm  
Ratio of SAR at M2 to SAR at M1 = 47.4 %

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 1.06 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.28 Plot No. L38.1

Band 38\_Rear tilt(Edge 1 side)\_Mod QPSK\_Ch 38000\_2595 MHz\_BW 20\_RBn. 1\_RBp. 49  
09\_15\_2022\_Room1 Temp\_23.5 deg.C.\_Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Duty Cycle: 1:1.5787

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.47, 7.47, 7.47) @ 2595 MHz

Medium parameters used:  $f = 2595 \text{ MHz}$ ;  $\sigma = 1.897 \text{ S/m}$ ;  $\epsilon_r = 39.012$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration 2/LTE B38 ch38000 2595 MHz QPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn1 RBp49/Area

Scan (81x71x1): Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.652 W/kg

#### Configuration 2/LTE B38 ch38000 2595 MHz QPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn1 RBp49/Zoom

Scan (7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 18.80 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.832 W/kg

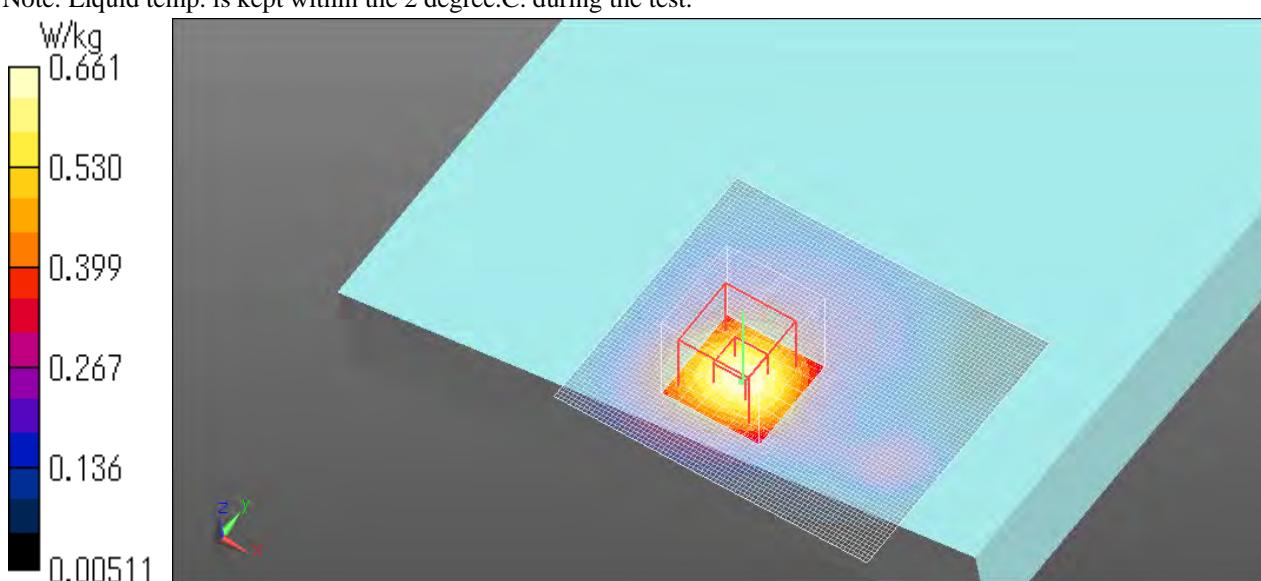
**SAR(1 g) = 0.417 W/kg; SAR(10 g) = 0.230 W/kg**

Smallest distance from peaks to all points 3 dB below = 19.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.6 %

Maximum value of SAR (measured) = 0.661 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.29 Plot No. L38.2

Band 38\_Rear tilt(Edge 4 side)\_Mod QPSK\_Ch 38000\_2595 MHz\_BW 20\_RBN. 100\_RBp. 0

**09\_14\_2022\_N\_Room1 Temp\_23.0 deg.C.\_Liquid Temp\_23.0 deg.C**

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz) Duty Cycle: 1:1.5787

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.47, 7.47, 7.47) @ 2595 MHz

Medium parameters used:  $f = 2595 \text{ MHz}$ ;  $\sigma = 1.905 \text{ S/m}$ ;  $\epsilon_r = 39.146$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration/LTE B38 ch38000 2595 MHz QPSK N/A Rear tilt Edge 4 0 mm 20 MHz RBn100 RBp0/Area Scan (81x71x1):

Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

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

#### Configuration/LTE B38 ch38000 2595 MHz QPSK N/A Rear tilt Edge 4 0 mm 20 MHz RBn100 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 23.53 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.40 W/kg

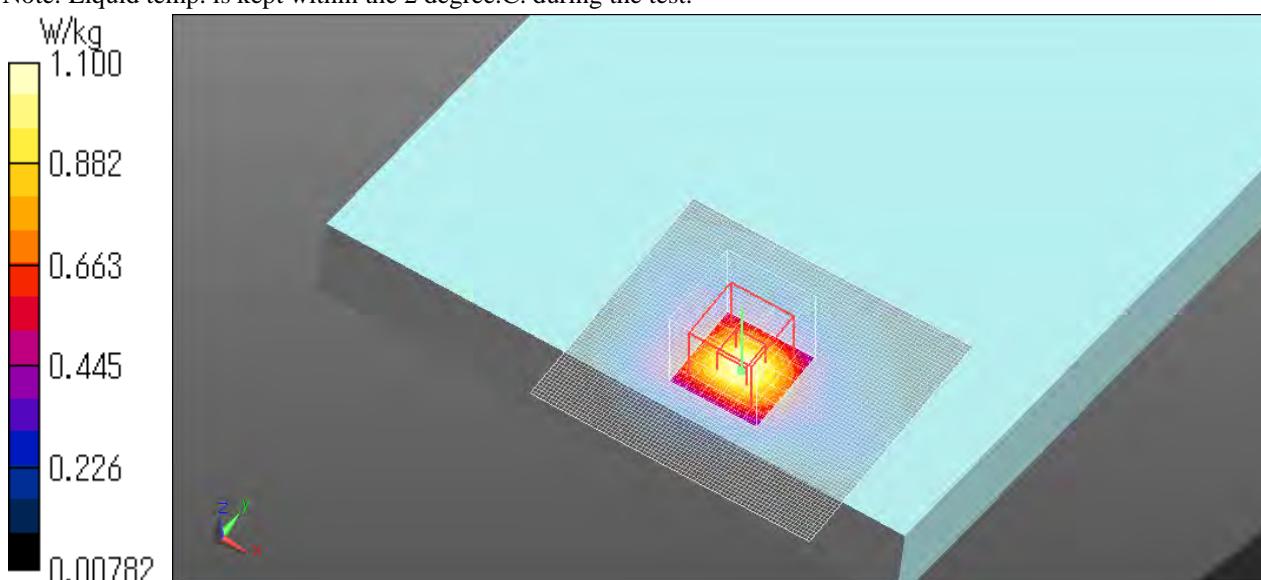
**SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.345 W/kg**

Smallest distance from peaks to all points 3 dB below = 13 mm

Ratio of SAR at M2 to SAR at M1 = 47.5 %

Maximum value of SAR (measured) = 1.10 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.30 Plot No. L41.1

Band 41\_Rear tilt(Edge 4 side)\_Mod QPSK\_Ch 40620\_2593 MHz\_BW 20\_RBN. 1\_RBP. 0

**09\_15\_2022\_Room1 Temp\_23.5 deg.C.\_Liquid Temp\_23.5 deg.C**

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz) Duty Cycle: 1:1.5787

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.47, 7.47, 7.47) @ 2593 MHz

Medium parameters used (interpolated):  $f = 2593 \text{ MHz}$ ;  $\sigma = 1.896 \text{ S/m}$ ;  $\epsilon_r = 39.013$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration/LTE B41 ch40620 2593 MHz QPSK N/A Rear tilt Edge 4 9 mm 20 MHz RBn1 RBp0/Area Scan (81x71x1):

Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.774 W/kg

#### Configuration/LTE B41 ch40620 2593 MHz QPSK N/A Rear tilt Edge 4 9 mm 20 MHz RBn1 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 20.38 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.976 W/kg

**SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.272 W/kg**

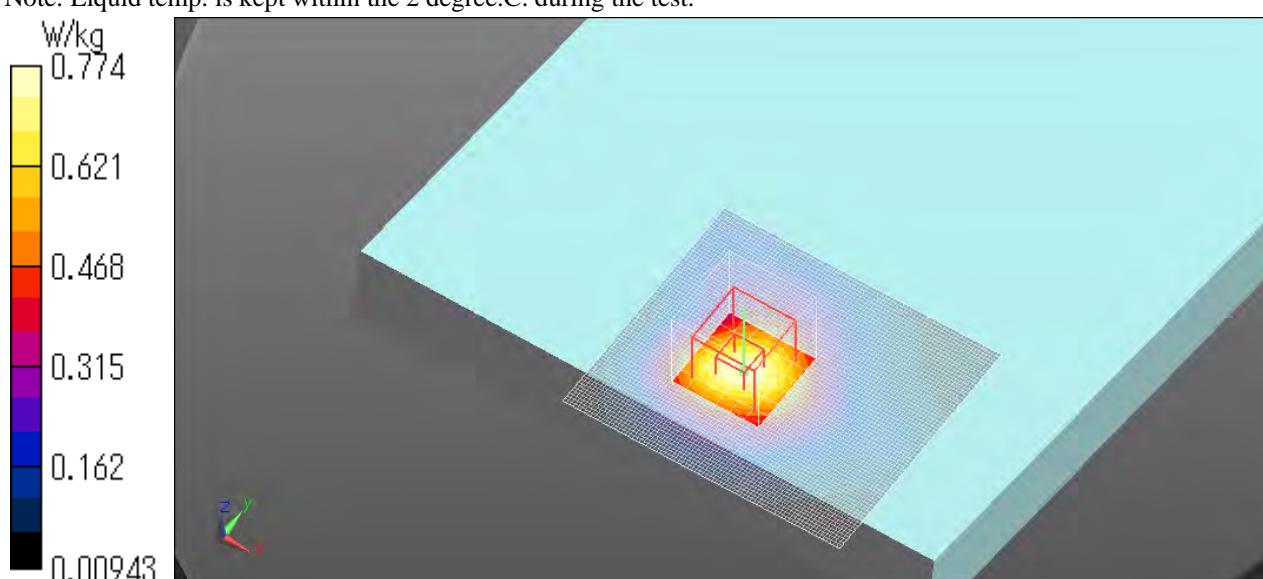
Smallest distance from peaks to all points 3 dB below = 18.6 mm

Ratio of SAR at M2 to SAR at M1 = 48.6 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.774 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.31 Plot No. L41.2

Band 41\_Edge 4\_Mod QPSK\_Ch 40185\_2549.5 MHz\_BW 20\_RBn. 1\_RBp. 99  
09\_23\_2022\_Room1 Temp\_24.0 deg.C\_Liquid Temp\_23.5 deg.C\_kensho

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz)Duty Cycle: 1:1.5787

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.47, 7.47, 7.47) @ 2549.5 MHz

Medium parameters used:  $f = 2550$  MHz;  $\sigma = 1.859$  S/m;  $\epsilon_r = 38.386$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Red/LTE B41 ch40185 2549.5 MHz QPSK NA Edge 4 0 mm 20 MHz RBn1 RBp99/Area Scan (61x131x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

#### Red/LTE B41 ch40185 2549.5 MHz QPSK NA Edge 4 0 mm 20 MHz RBn1 RBp99/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 27.15 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.70 W/kg

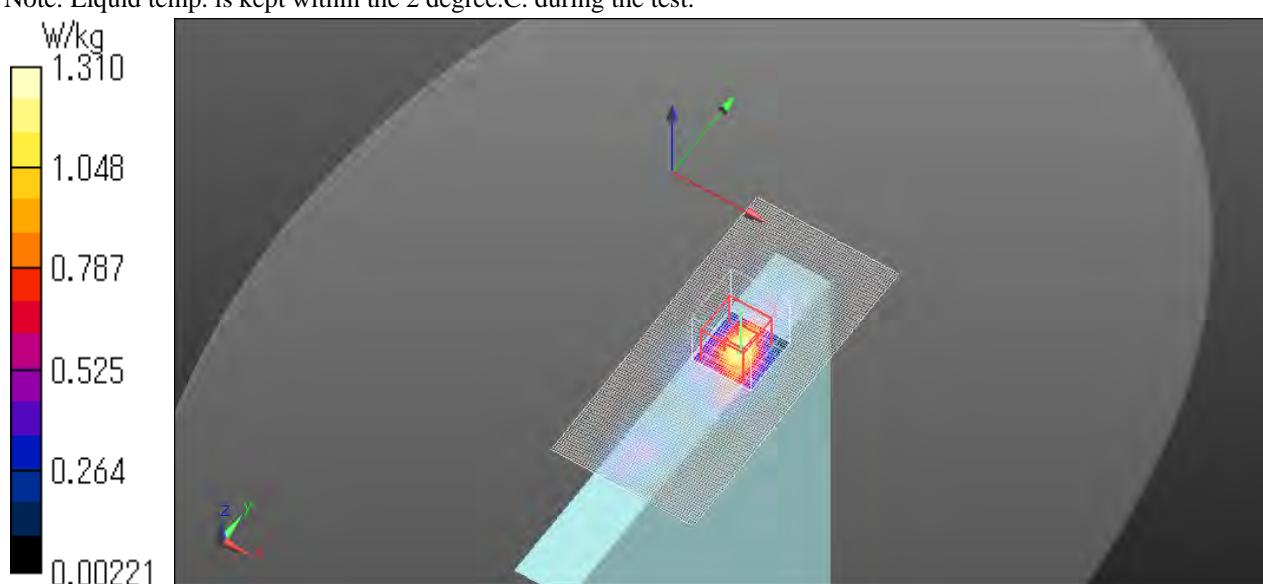
**SAR(1 g) = 0.752 W/kg; SAR(10 g) = 0.332 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 46 %

Maximum value of SAR (measured) = 1.31 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.32 Plot No. L48.1 ONLY FOR FCC  
Band 48\_Edge 4\_Mod QPSK\_Ch 55340\_3560 MHz\_BW 20\_RBn. 1\_RBp. 99  
07\_05\_2022\_Room2 Temp\_18.5 deg.C.\_Liquid Temp\_18.5 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)  
Communication System Band: Band 48, E-UTRA/TDD (3560.0 - 3690.0 MHz)Duty Cycle: 1:1.5787  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17  
ConvF(6.8, 6.8, 6.8) @ 3560 MHz  
Medium parameters used:  $f = 3560 \text{ MHz}$ ;  $\sigma = 2.834 \text{ S/m}$ ;  $\epsilon_r = 37.677$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Configuration 2/LTE Full 5 B48 ch55340 3560 MHz QPSK NA Edge4 19 mm 20 MHz RBn1 RBp99/Area Scan (61x131x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.0899 W/kg

**Configuration 2/LTE Full 5 B48 ch55340 3560 MHz QPSK NA Edge4 19 mm 20 MHz RBn1 RBp99/Zoom Scan (8x8x9)/Cube 0:** Measurement grid:  $dx=4 \text{ mm}$ ,  $dy=4 \text{ mm}$ ,  $dz=1.4 \text{ mm}$

Reference Value = 5.925 V/m; Power Drift = -0.21 dB  
Peak SAR (extrapolated) = 0.123 W/kg

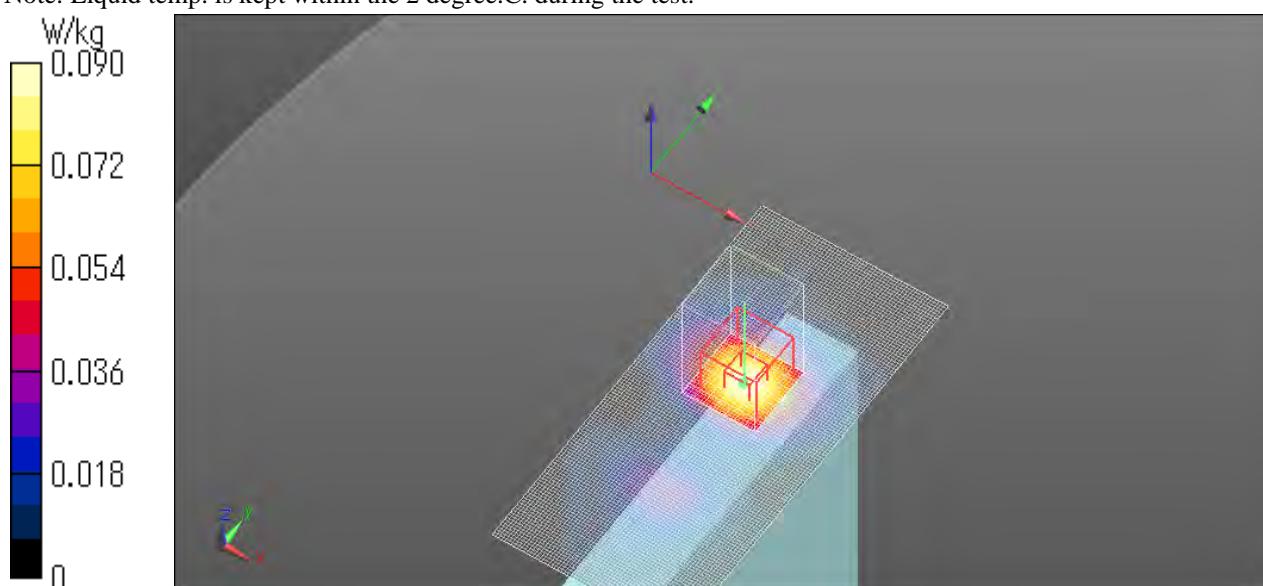
**SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.022 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 14 mm)

Ratio of SAR at M2 to SAR at M1 = 74.4 %

Maximum value of SAR (measured) = 0.0895 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.33 Plot No. L48.2 ONLY FOR FCC  
Band 48\_Edge 4\_Mod QPSK\_Ch 55340\_3560 MHz\_BW 20\_RBN. 50\_RBP. 50  
**09\_14\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C**

#### Communication System info

Communication System: UID 0, #Generic LTE (0)  
Communication System Band: Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz)Duty Cycle: 1:1.5787  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(6.63, 6.63, 6.63) @ 3560 MHz  
Medium parameters used:  $f = 3560 \text{ MHz}$ ;  $\sigma = 3.02 \text{ S/m}$ ;  $\epsilon_r = 37.865$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

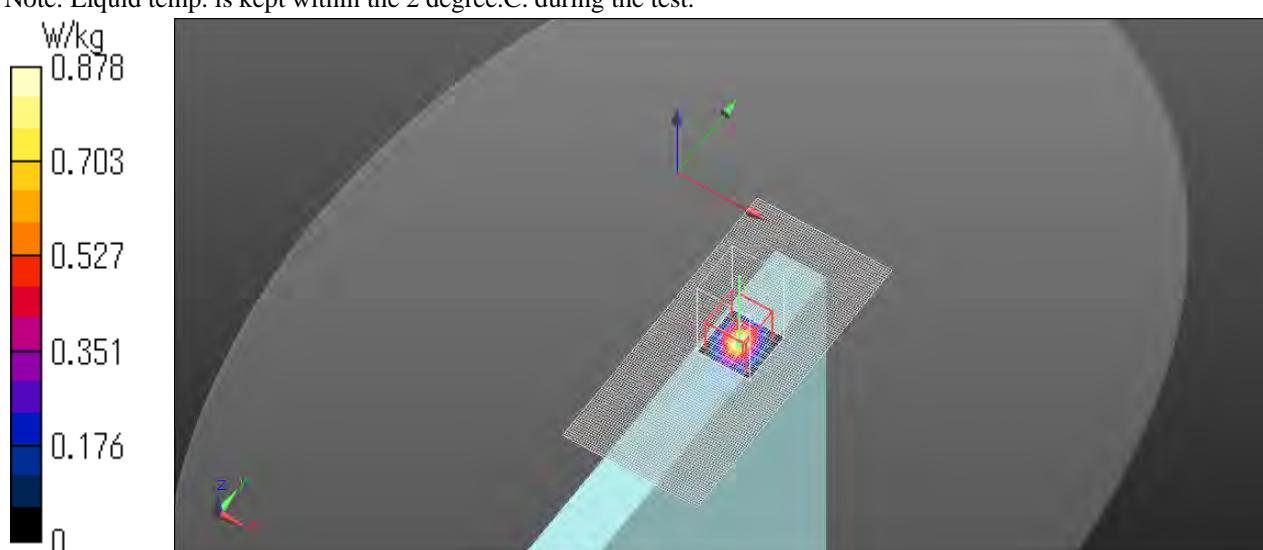
#### Red/LTE B48 ch55340 3560MHz QPSK NA Edge 4 0 mm 20 MHz RBn50 RBp50/Area Scan (61x131x1):

Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.905 W/kg

#### Red/LTE B48 ch55340 3560 MHz QPSK NA Edge 4 0 mm 20 MHz RBn50 RBp50/Zoom Scan (8x8x9)/Cube 0:

Measurement grid:  $dx=4 \text{ mm}$ ,  $dy=4 \text{ mm}$ ,  $dz=1.4 \text{ mm}$   
Reference Value = 17.81 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 1.18 W/kg  
**SAR(1 g) = 0.415 W/kg; SAR(10 g) = 0.120 W/kg**  
Smallest distance from peaks to all points 3 dB below = 6.4 mm  
Ratio of SAR at M2 to SAR at M1 = 75.7 %  
Maximum value of SAR (measured) = 0.878 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.34 Plot No. L66.1

Band 66\_Rear tilt(Edge 4 side)\_Mod QPSK\_Ch 132072\_1720 MHz\_BW 20\_RBN. 50\_RBp. 24  
08\_23\_2022\_Room1 Temp\_22.0 deg.C. Liquid Temp\_22.0 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.4, 8.4, 8.4) @ 1720 MHz

Medium parameters used:  $f = 1720 \text{ MHz}$ ;  $\sigma = 1.294 \text{ S/m}$ ;  $\epsilon_r = 39.186$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/LTE B66 ch132072 1720 MHz QPSK N/A Rea tilt Edge 4 9 mm 20MHz RBn50 RBp24/Area Scan

(101x61x1): Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

#### Full/LTE B66 ch132072 1720 MHz QPSK N/A Rea tilt Edge 4 9 mm 20MHz RBn50 RBp24/Zoom Scan

(7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 29.25 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.25 W/kg

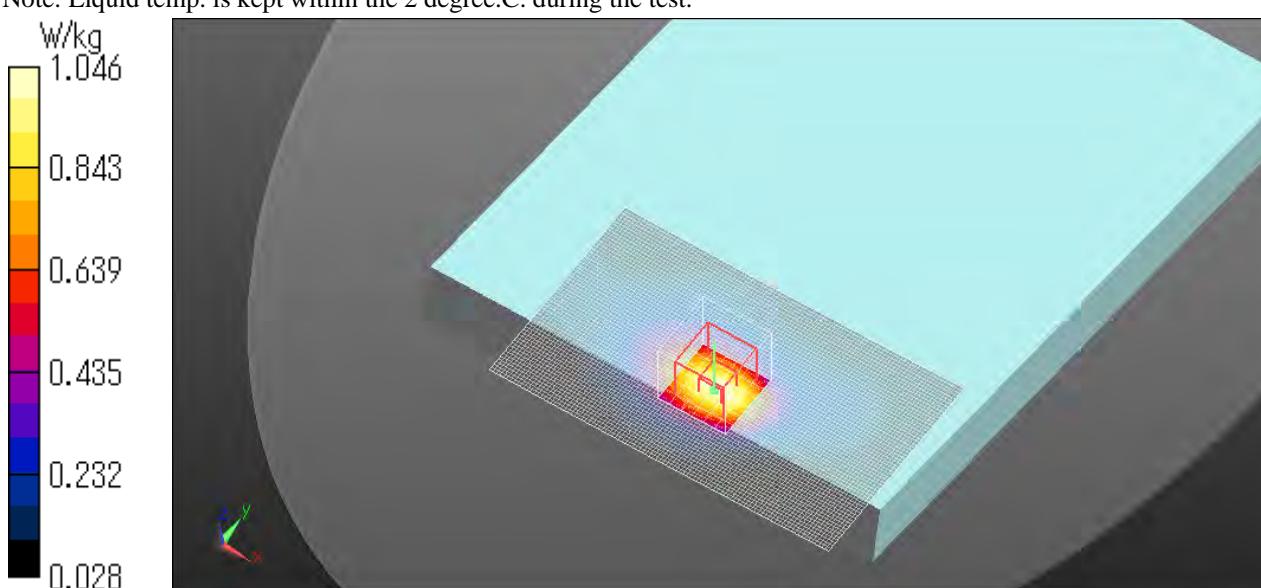
**SAR(1 g) = 0.731 W/kg; SAR(10 g) = 0.437 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.6 mm

Ratio of SAR at M2 to SAR at M1 = 59.5 %

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.35 Plot No. L66.2

Band 66\_Rear tilt(Edge 4 side)\_Mod QPSK\_Ch 132072\_1720 MHz\_BW 20\_RBN. 50\_RBP. 24  
08\_23\_2022\_Room1 Temp\_22.0 deg.C.\_Liquid Temp\_22.0 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz)Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.4, 8.4, 8.4) @ 1720 MHz

Medium parameters used:  $f = 1720 \text{ MHz}$ ;  $\sigma = 1.294 \text{ S/m}$ ;  $\epsilon_r = 39.186$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Red/LTE B66 ch132072 1720 MHz QPSK N/A Red Rear tilt Edge 4 0 mm 20MHz RBn50 RBp24/Area Scan (101x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.22 W/kg

**Red/LTE B66 ch132072 1720 MHz QPSK N/A Red Rear tilt Edge 4 0mm 20MHz RBn50 RBp24/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 30.83 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.47 W/kg

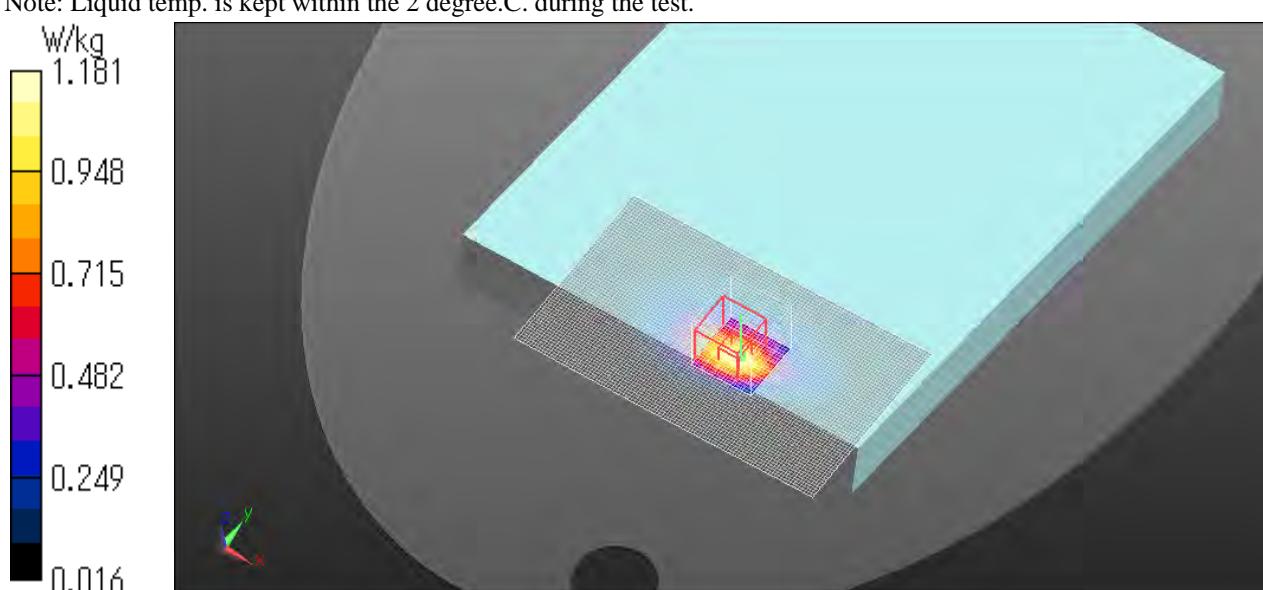
**SAR(1 g) = 0.756 W/kg; SAR(10 g) = 0.411 W/kg**

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 52.6 %

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.36 Plot No. L71.1

Band 71\_Rear tilt(Edge 4 side)\_Mod QPSK\_Ch 133297\_680.5 MHz\_BW 20\_RBN. 1\_RBp. 99  
06\_28\_2022\_Room2 Temp\_23.0 deg.C.\_Liquid Temp\_23.0 deg.C

#### Communication System info

Communication System: UID 0, #Generic LTE (0)

Communication System Band: Band 71, E-UTRA/FDD (663.0 - 698.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2021/07/22

ConvF(9.79, 9.79, 9.79) @ 680.5 MHz

Medium parameters used (interpolated):  $f = 680.5 \text{ MHz}$ ;  $\sigma = 0.888 \text{ S/m}$ ;  $\epsilon_r = 40.475$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2021/07/13

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration/LTE B71 133297ch 680.5 MHz QPSK N/A rear tilt Edge 4 9 mm 20 MHz RBn1 RBp99/Area

Scan (101x61x1): Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.604 W/kg

#### Configuration/LTE B71 133297ch 680.5 MHz QPSK N/A rear tilt Edge 4 9 mm 20 MHz RBn1 RBp99/Zoom

Scan (7x7x7)/Cube 0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 27.05 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.678 W/kg

**SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.311 W/kg**

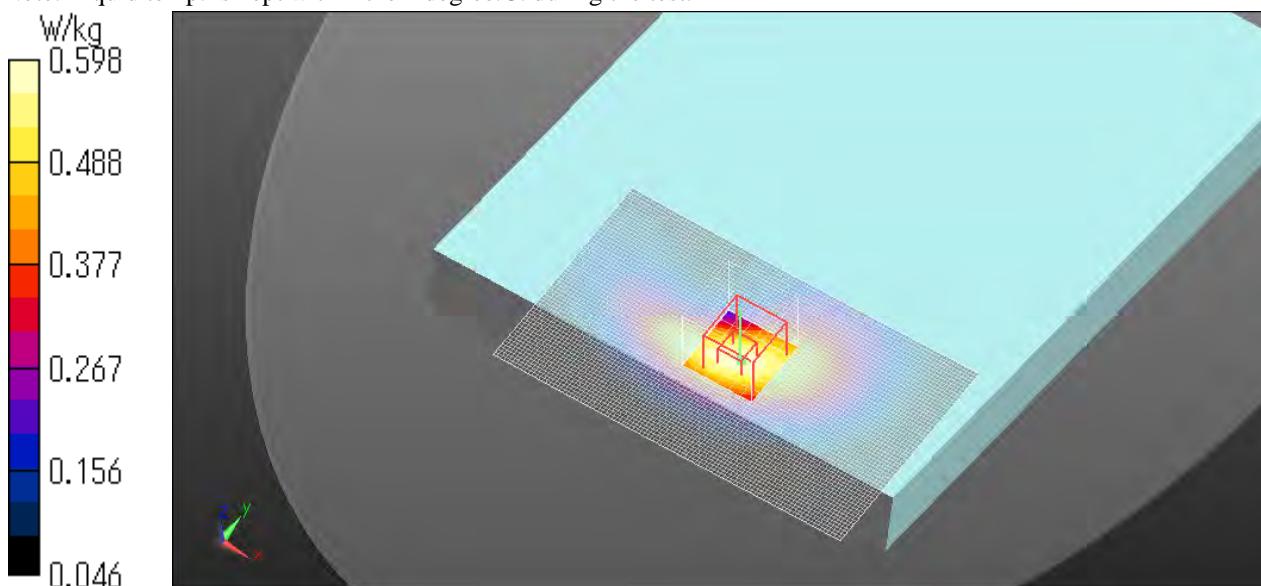
Smallest distance from peaks to all points 3 dB below = 16.1 mm

Ratio of SAR at M2 to SAR at M1 = 68.6 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.598 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.37 Plot No. L71.2

Band 71\_Edge 4 side\_Mod QPSK\_Ch 133297\_680.5 MHz\_BW 20\_RBN.50\_RBp.24  
08\_18\_2022\_Room2 Temp\_21.5 deg.C\_Liquid Temp\_21.5 deg.C

**Communication System info**

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 71, E-UTRA/FDD (663.0 - 698.0 MHz)Duty Cycle: 1:1

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

**Probe info:**

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(10.11, 10.11, 10.11) @ 680.5 MHz

Medium parameters used (interpolated):  $f = 680.5 \text{ MHz}$ ;  $\sigma = 0.883 \text{ S/m}$ ;  $\epsilon_r = 40.944$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

**DAE info:**

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

**Phantom info:**

Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1207

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Red/LTE B71 ch133297 680.5 MHz QPSK N/A red Edge4 0 mm 20 MHz RBn50 RBp24/Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.962 W/kg

**Red/LTE B71 ch133297 680.5 MHz QPSK N/A red Edge4 0 mm 20 MHz RBn50 RBp24/Zoom Scan (7x9x7)/Cube 0:**

Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 34.34 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.287 W/kg**

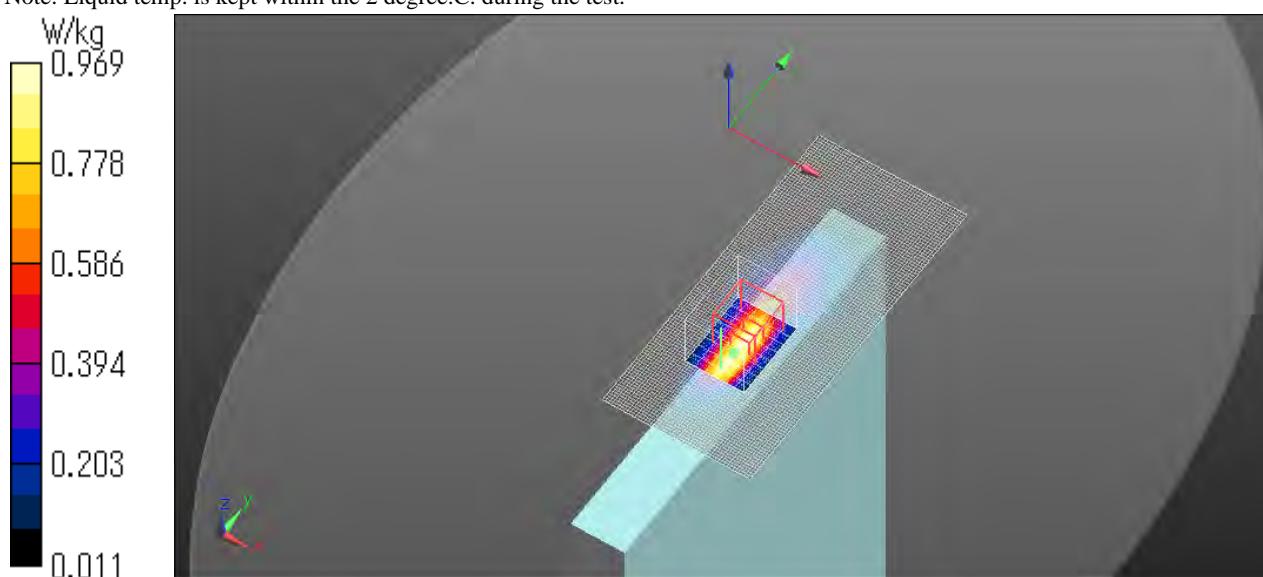
Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 33.9 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.969 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.38 Plot No. N2.1

Band 2\_Rear tilt(Edge 1 side)\_Mod BPSK\_Ch 372000\_1860 MHz\_BW 20\_RBN. 100\_RBP. 0  
08\_02\_2022\_Room1 Temp\_22.0 deg.C. Liquid Temp\_22.0 deg.C

#### Communication System info

Communication System: UID 0, #NR (0) (0)

Communication System Band: Bnad 2Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(7.53, 7.53, 7.53) @ 1860 MHz

Medium parameters used:  $f = 1860 \text{ MHz}$ ;  $\sigma = 1.393 \text{ S/m}$ ;  $\epsilon_r = 40.19$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

#### Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Configuration/NR n2 ch372000 1860 MHz BPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn100 RBp0/Area Scan (101x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.863 W/kg

**Configuration/NR n2 ch372000 1860 MHz BPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn100 RBp0/Zoom**

**Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 26.47 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.382 W/kg**

Smallest distance from peaks to all points 3 dB below = 17.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.4 %

Maximum value of SAR (measured) = 0.895 W/kg

**Configuration/NR n2 ch372000 1860 MHz BPSK N/A Rear tilt Edge 1 0 mm 20 MHz RBn100 RBp0/Zoom**

**Scan 2 (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 26.47 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.748 W/kg

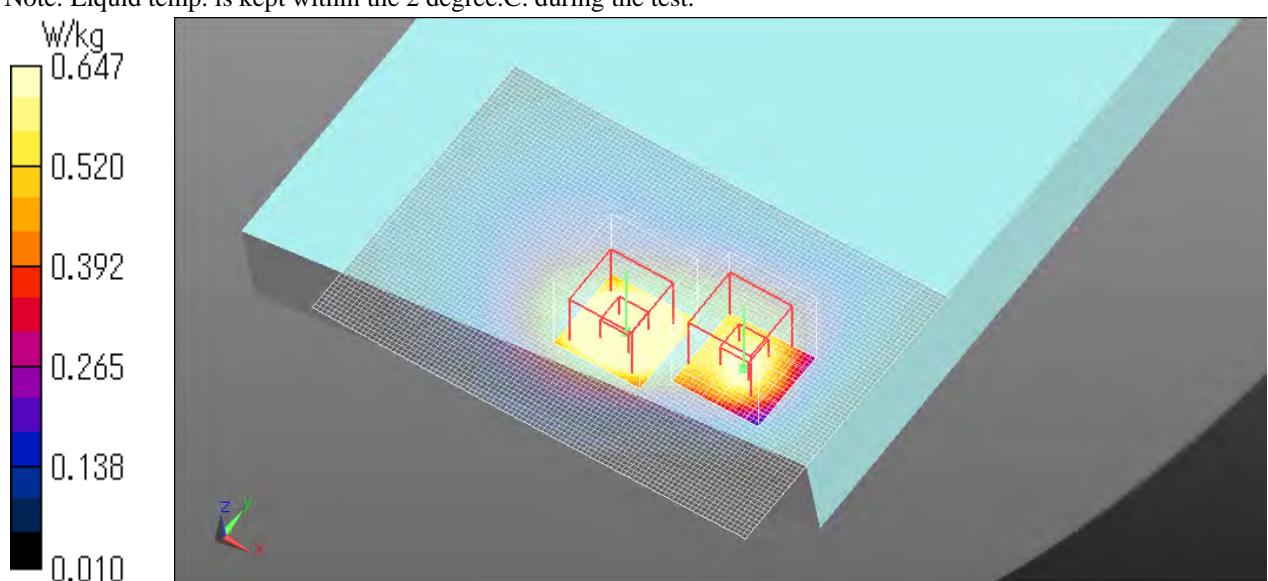
**SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.285 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 62.9 %

Maximum value of SAR (measured) = 0.647 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.39 Plot No. N2.2

Band n2\_Edge 4\_Mod BPSK\_Ch 380000\_1900 MHz\_BW 20\_RBN. 1\_RBP. 1

08\_24\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 degC

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(7.53, 7.53, 7.53) @ 1900 MHz

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.448 \text{ S/m}$ ;  $\epsilon_r = 38.512$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### red/NR n2 ch380000 1900 MHz BPSK N/A Edge 4 0 mm 20 MHz RBn1 RBp1/Area Scan (51x111x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.20 W/kg

#### red/NR n2 ch380000 1900 MHz BPSK N/A Edge 4 0 mm 20 MHz RBn1 RBp1/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 30.92 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.58 W/kg

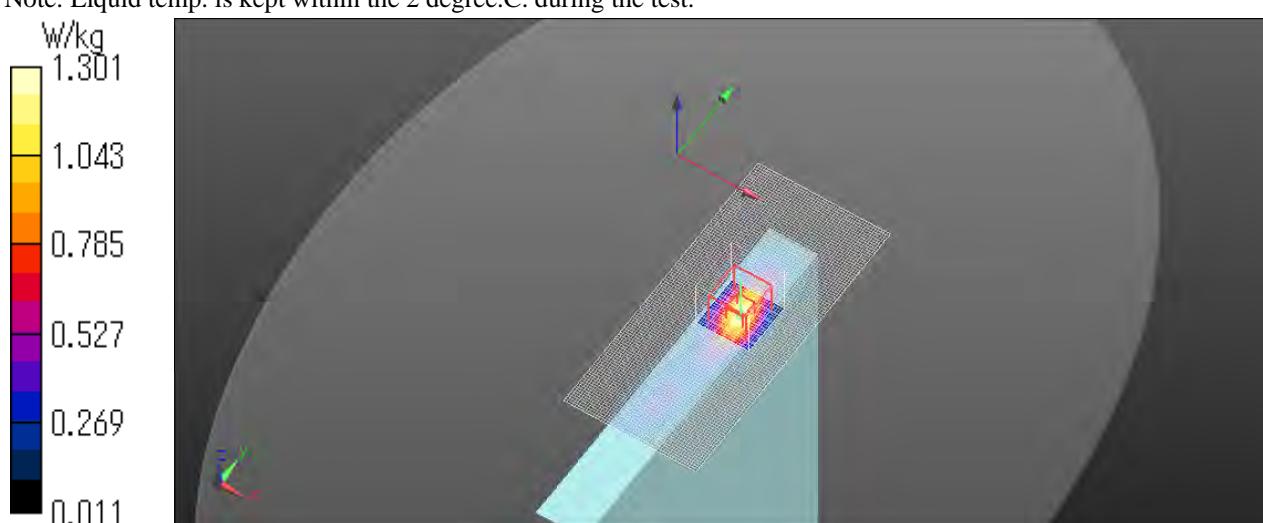
**SAR(1 g) = 0.800 W/kg; SAR(10 g) = 0.387 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.5 %

Maximum value of SAR (measured) = 1.30 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.40 Plot No. N5.1

Band n5\_Rear tilt(Edge 4 side)\_Mod BPSK\_Ch 167300\_836.5 MHz\_BW 20\_RBn. 1\_RBp. 1  
07\_11\_2022\_Room1 Temp\_21.0 deg.C.\_Liquid Temp\_20.7 deg.C

#### Communication System info

Communication System: UID 0, #NR (0) (0)

Communication System Band: Band 5Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(8.97, 8.97, 8.97) @ 836.5 MHz

Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.915 \text{ S/m}$ ;  $\epsilon_r = 42.203$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn554 / Calibrated: 2022/04/14

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/NR Bn5 167300ch 836.5MHz BPSK DFTsOFDM full rear tilt Edge 4 9 mm 20 MHz RBn1 RBp1/Area

**Scan (101x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.910 W/kg

#### Full/NR Bn5 167300ch 836.5MHz BPSK DFTsOFDM full rear tilt Edge 4 9 mm 20 MHz RBn1 RBp1/Zoom

**Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 33.03 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.439 W/kg**

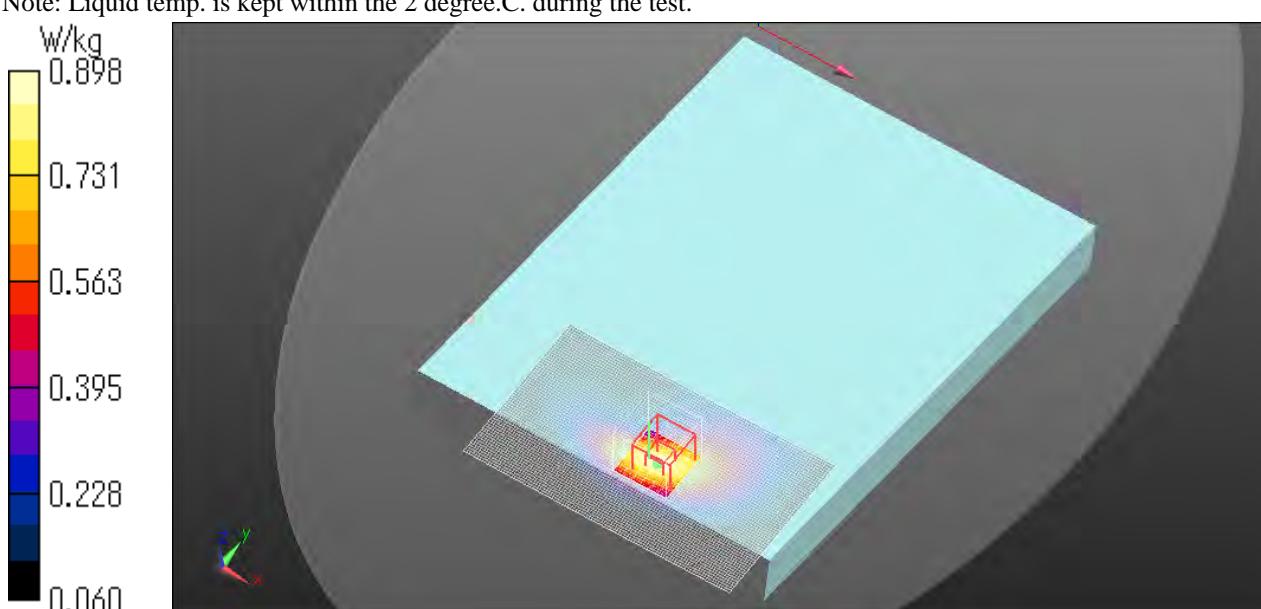
Smallest distance from peaks to all points 3 dB below = 13.9 mm

Ratio of SAR at M2 to SAR at M1 = 64.4 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.898 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.41 Plot No. N5.2

Band n5\_Edge 4\_Mod BPSK\_Ch 167300\_836.5 MHz\_BW 20\_RBN. 100\_RBP. 0

08\_23\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 degC

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(8.97, 8.97, 8.97) @ 836.5 MHz

Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.92 \text{ S/m}$ ;  $\epsilon_r = 41.126$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### red/NR n5 ch167300 836.5 MHz BPSK N/A Edge 4 0 mm 20 MHz RBn100 RBp0/Area Scan (51x111x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.946 W/kg

#### red/NR n5 ch167300 836.5 MHz BPSK N/A Edge 4 0 mm 20 MHz RBn100 RBp0/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 35.51 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.673 W/kg; SAR(10 g) = 0.356 W/kg**

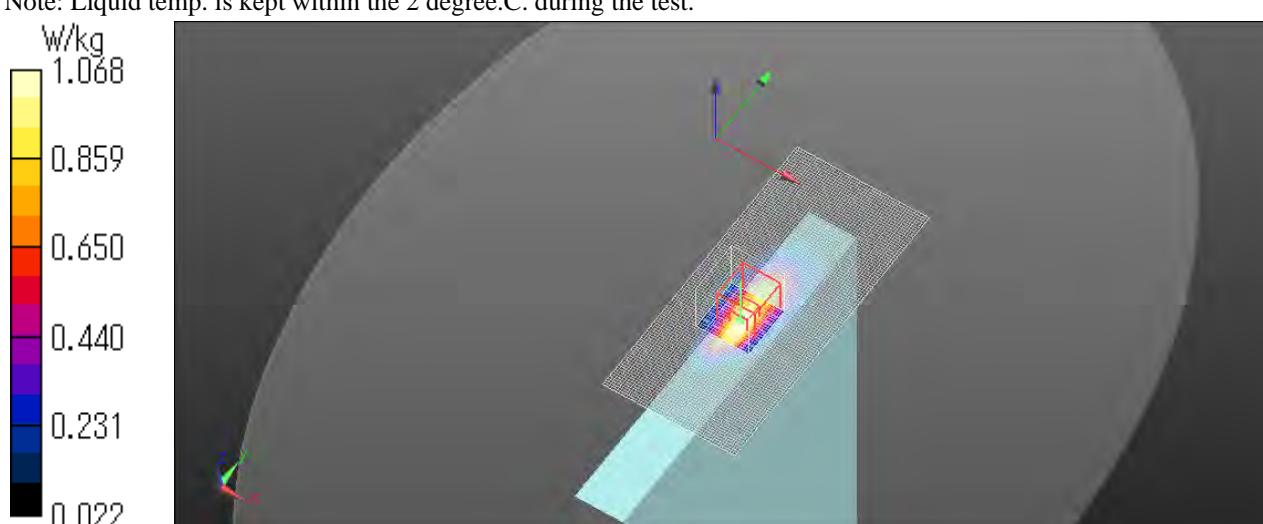
Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 49.8 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.07 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.42 Plot No. N41.1

Band n41\_Rear tilt(Edge 2 side)\_Mod BPSK\_Ch 518600\_2593 MHz\_BW 20\_RBN. 135\_RBP. 69  
07\_06\_2022\_Room2 Temp\_18.5 deg.C.\_Liquid Temp\_18.5 deg.C

#### Communication System info

Communication System: UID 0, #NR (0)

Communication System Band: NR 41Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.47, 7.47, 7.47) @ 2593 MHz

Medium parameters used (interpolated):  $f = 2593 \text{ MHz}$ ;  $\sigma = 1.966 \text{ S/m}$ ;  $\epsilon_r = 39.458$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration/NR Bn41 518600ch 2593 MHz BPSK DFTsOFDM full rear Edge 2 9 mm 100 MHz RBn135

**RBp69/Area Scan (111x81x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

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

#### Configuration/NR Bn41 518600ch 2593 MHz BPSK DFTsOFDM full rear Edge 2 9 mm 100 MHz RBn135

**RBp69/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 24.65 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.334 W/kg**

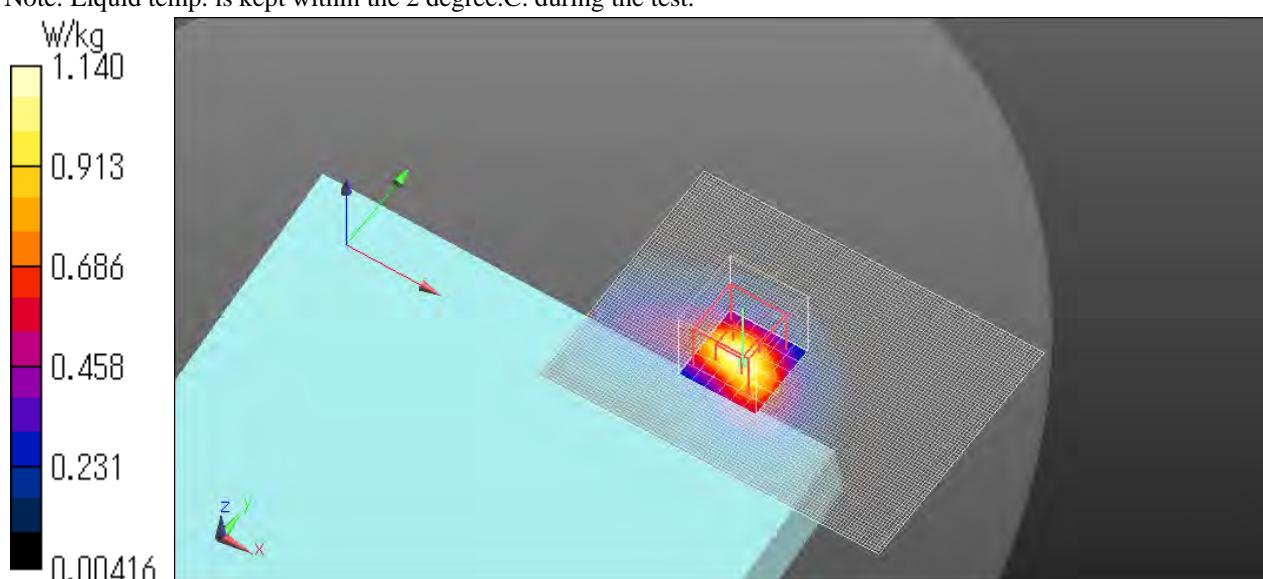
Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 46.3 %

Info: Interpolated medium parameters used for SAR evaluation.

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.43 Plot No. N41.2  
Band n41\_Edge 2\_Mod BPSK\_Ch 518600\_2593 MHz\_BW 20\_RBN. 135\_RBp. 69  
**09\_09\_2022\_Room1 Temp\_23.5 deg.C. Liquid Temp\_23.5 deg.C**

#### Communication System info

Communication System: UID 0, #NR (0) (0)  
Communication System Band: Band 41Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17  
ConvF(7.47, 7.47, 7.47) @ 2593 MHz  
Medium parameters used (interpolated):  $f = 2593 \text{ MHz}$ ;  $\sigma = 1.896 \text{ S/m}$ ;  $\epsilon_r = 39.511$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

#### Phantom info:

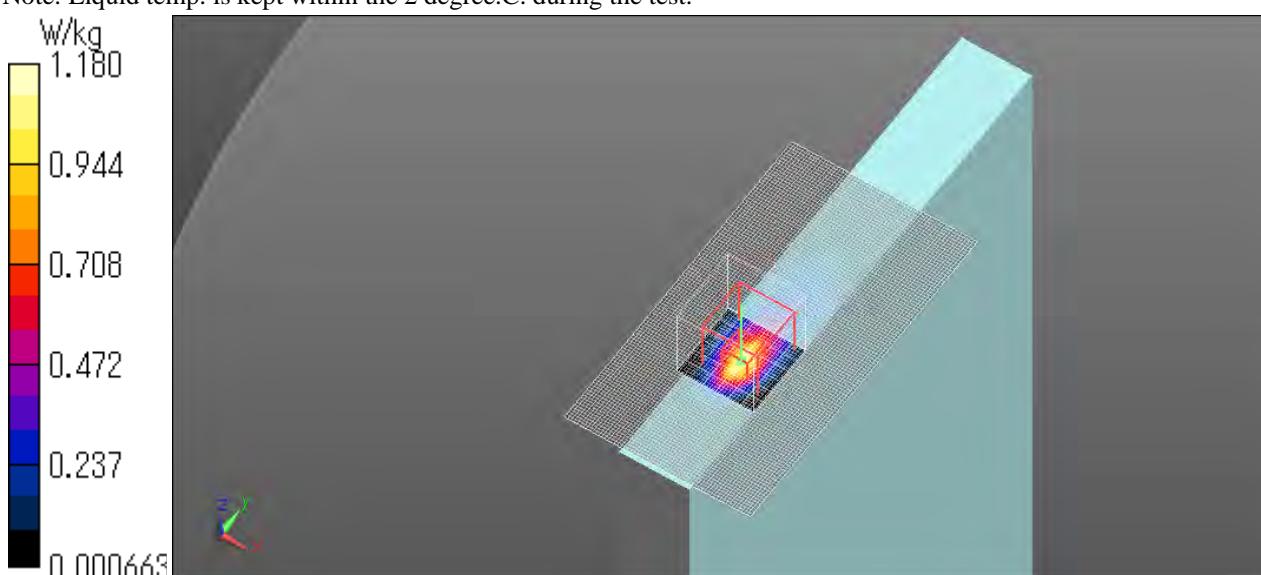
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**N41/NR41(red) ch518600 2593 MHz BPSK DFTsOFDM Edge 2 0 mm 100 MHz RBn135 RBp69/Area Scan (61x111x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$   
Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 1.28 W/kg

**N41/NR41(red) ch518600 2593 MHz BPSK DFTsOFDM Edge 2 0 mm 100 MHz RBn135 RBp69/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$   
Reference Value = 25.68 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 1.59 W/kg  
**SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.215 W/kg**  
Smallest distance from peaks to all points 3 dB below = 5.8 mm  
Ratio of SAR at M2 to SAR at M1 = 41.4 %  
Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 1.18 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.44 Plot No. N66.1

Band 66\_Rear tilt(Edge 4 side)\_Mod BPSK\_Ch 349000\_1745 MHz\_BW 20\_RBN. 50\_RBP. 0  
07\_26\_2022\_Room1 Temp\_20.5 deg.C.\_Liquid Temp\_20.3 deg.C

#### Communication System info

Communication System: UID 0, #NR (0)

Communication System Band: NR 66Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(7.64, 7.64, 7.64) @ 1745 MHz

Medium parameters used:  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.309 \text{ S/m}$ ;  $\epsilon_r = 40.475$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn554 / Calibrated: 2022/04/14

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Full/NR Bn66 349000ch 1745 MHz BPSK DFTsOFDM red rear tilt Edge 4 9 mm 20 MHz RBn50 RBp0/Area

**Scan (101x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.942 W/kg

#### Full/NR Bn66 349000ch 1745 MHz BPSK DFTsOFDM red rear tilt Edge 4 9 mm 20 MHz RBn50 RBp0/Zoom

**Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 27.75 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.10 W/kg

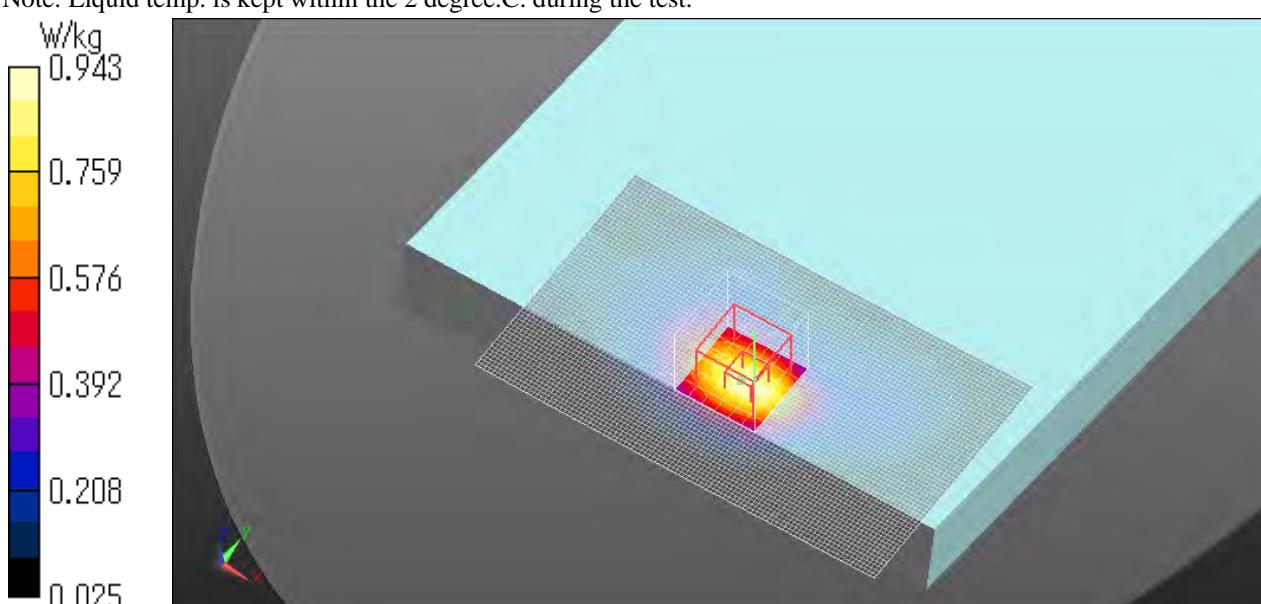
**SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.402 W/kg**

Smallest distance from peaks to all points 3 dB below = 14 mm

Ratio of SAR at M2 to SAR at M1 = 60.5 %

Maximum value of SAR (measured) = 0.943 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.45 Plot No. N66.2  
Band n66\_Edge 4\_Mod BPSK\_Ch 354000\_1770 MHz\_BW 20\_RBN. 50\_RBP. 28  
07\_25\_2022\_Room1 Temp\_20.5 deg.C. Liquid Temp\_20.3 deg.C

#### Communication System info

Communication System: UID 0, #NR (0)  
Communication System Band: NR 66Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19  
ConvF(7.64, 7.64, 7.64) @ 1770 MHz  
Medium parameters used:  $f = 1770 \text{ MHz}$ ;  $\sigma = 1.316 \text{ S/m}$ ;  $\epsilon_r = 38.771$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn554 / Calibrated: 2022/04/14

#### Phantom info:

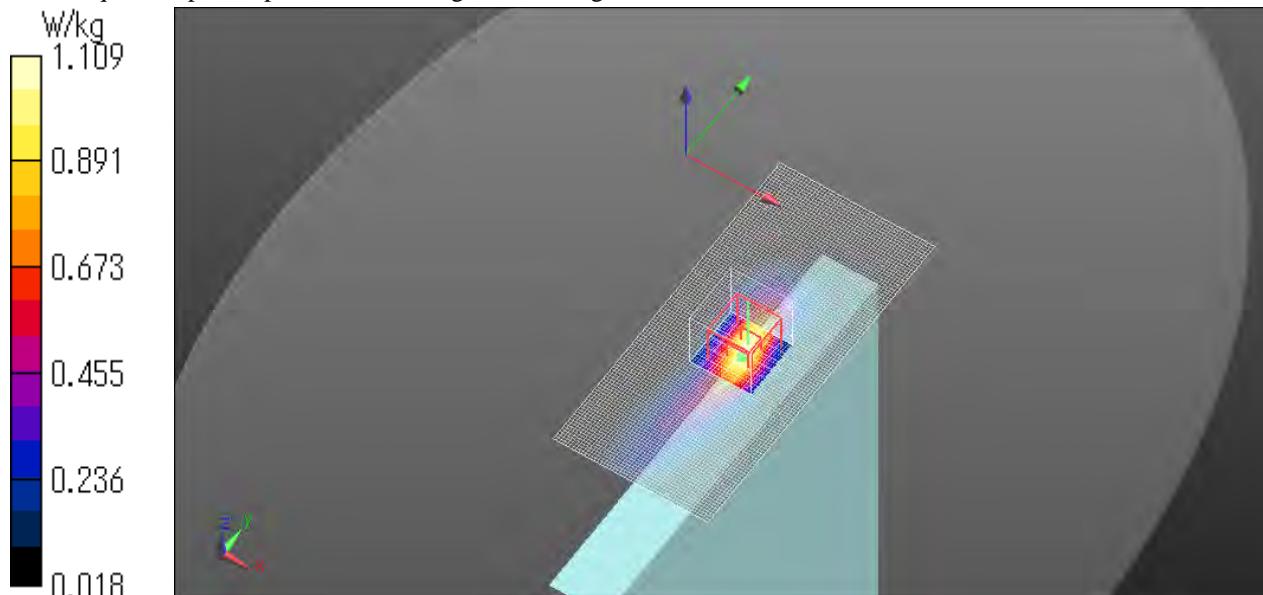
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Red/NR Bn66(red) 354000ch 1770 MHz BPSK DFTsOFDM red rear tilt Edge 4 0 mm 20 MHz RBn50 RBp28/Area Scan (51x111x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.11 W/kg

**Red/NR Bn66(red) 354000ch 1770 MHz BPSK DFTsOFDM red rear tilt Edge 4 0 mm 20 MHz RBn50 RBp28/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$   
Reference Value = 30.04 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 1.34 W/kg  
**SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.367 W/kg**  
Smallest distance from peaks to all points 3 dB below = 8.9 mm  
Ratio of SAR at M2 to SAR at M1 = 53.2 %  
Maximum value of SAR (measured) = 1.11 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.46 Plot No. N71.1

Band 71\_Rear tilt(Edge 1 side)\_Mod BPSK\_Ch 136100\_680.5 MHz\_BW 20\_RBN. 50\_RBP. 28  
07\_27\_2022\_Room1 Temp\_20.5 deg.C. Liquid Temp\_20.3 deg.C

#### Communication System info

Communication System: UID 0, #NR (0) (0)

Communication System Band: Band 71Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(9.35, 9.35, 9.35) @ 680.5 MHz

Medium parameters used (interpolated):  $f = 680.5 \text{ MHz}$ ;  $\sigma = 0.834 \text{ S/m}$ ;  $\epsilon_r = 42.608$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn554 / Calibrated: 2022/04/14

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Configuration/NR Bn71 136100ch 680.5 MHz BPSK DFTsOFDM red rear tilt Edge 1 0 mm 20 MHz RBn50

**RBp28/Area Scan (91x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.504 W/kg

#### Configuration/NR Bn71 136100ch 680.5 MHz BPSK DFTsOFDM red rear tilt Edge 1 0 mm 20 MHz RBn50

**RBp28/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 25.68 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.562 W/kg

**SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.294 W/kg** (SAR corrected for target medium)

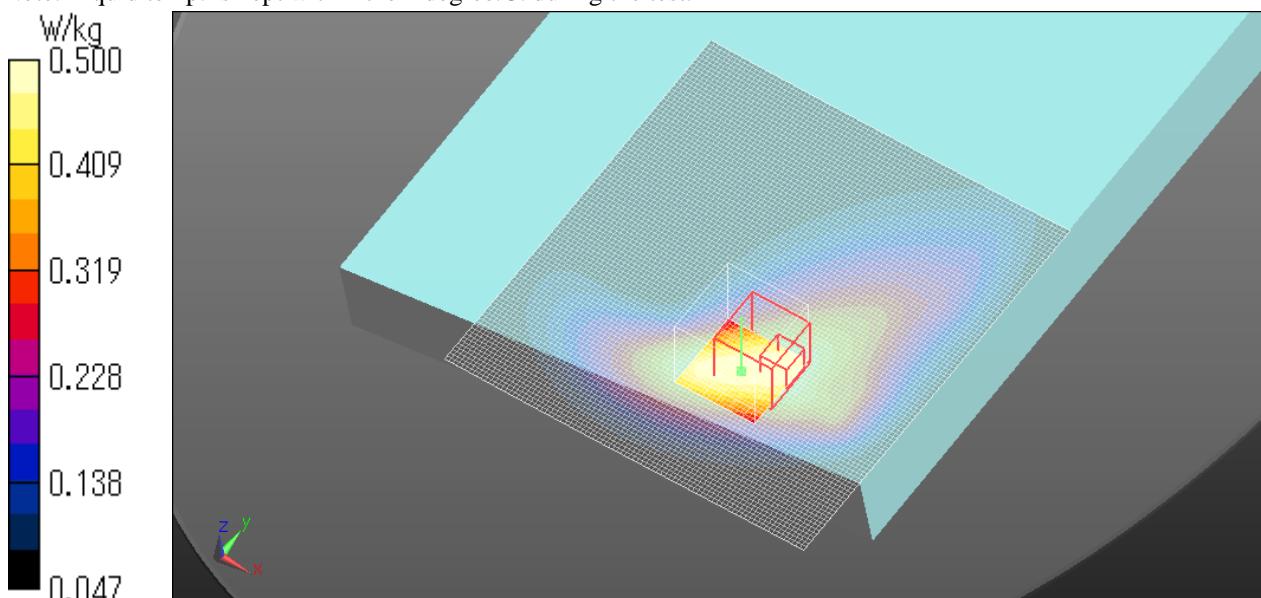
Smallest distance from peaks to all points 3 dB below = 20.5 mm

Ratio of SAR at M2 to SAR at M1 = 69.8 %

Info: Interpolated medium parameters used for SAR evaluation..

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.47 Plot No. N71.2

Band 71\_Edge 4\_Mod BPSK\_Ch 136100\_680.5 MHz\_BW 20\_RBN. 100\_RBP. 0  
07\_26\_2022\_Room1 Temp\_20.5 deg.C. Liquid Temp\_20.3 deg.C

#### Communication System info

Communication System: UID 0, #NR (0)

Communication System Band: NR bandDuty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(9.35, 9.35, 9.35) @ 680.5 MHz

Medium parameters used (extrapolated):  $f = 680.5 \text{ MHz}$ ;  $\sigma = 0.853 \text{ S/m}$ ;  $\epsilon_r = 40.807$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn554 / Calibrated: 2022/04/14

#### Phantom info:

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Red/NR Bn71(red) ch136100 680.5 MHz BPSK DFTsOFDM Edge 4 0 mm 20 MHz RBn100 RBp0/Area Scan (51x111x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Info: Extrapolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.20 W/kg

**Red/NR Bn71(red) ch136100 680.5 MHz BPSK DFTsOFDM Edge 4 0 mm 20 MHz RBn100 RBp0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 38.95 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.84 W/kg

**SAR(1 g) = 0.703 W/kg; SAR(10 g) = 0.345 W/kg** (SAR corrected for target medium)

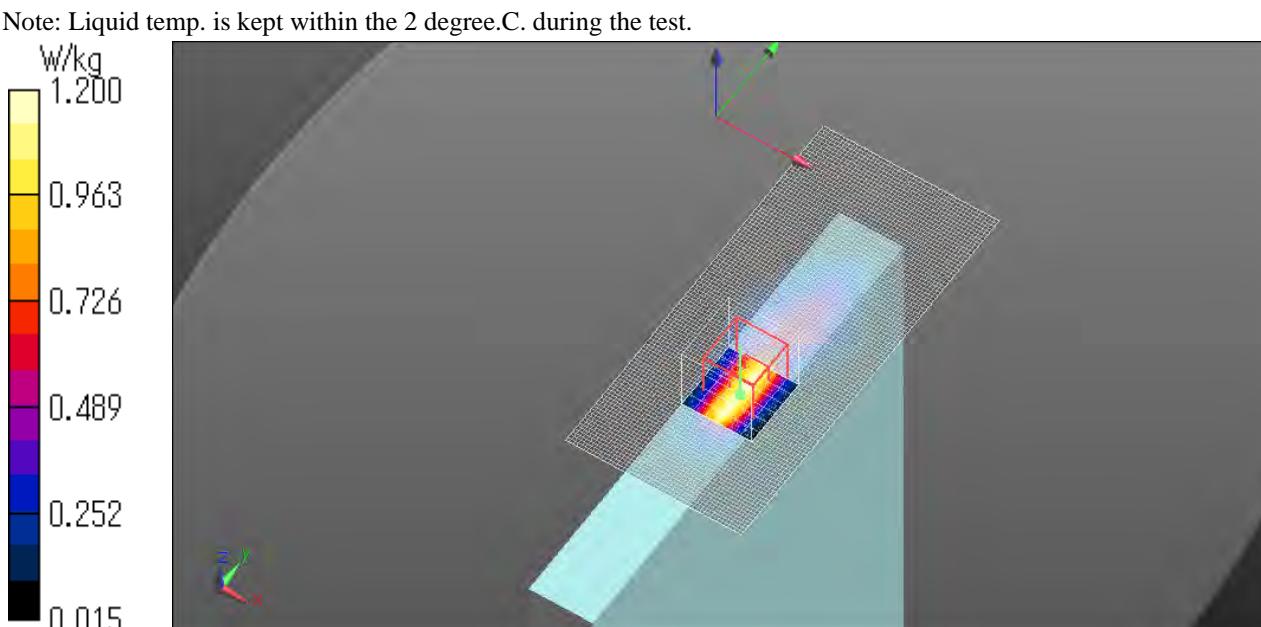
Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 42.2 %

Info: Extrapolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.20 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.48 Plot No. N77-A.1 ONLY FOR FCC

Band n77\_Edge 4\_Mod BPSK\_Ch 633332\_3499.98 MHz\_BW 20\_RBN. 135\_RBP. 0  
09\_13\_2022\_Room3 Temp\_24.0 deg.C.\_Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, #NR (0)

Communication System Band: N77/78Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20

ConvF(6.63, 6.63, 6.63) @ 3499.98 MHz

Medium parameters used:  $f = 3500$  MHz;  $\sigma = 2.972$  S/m;  $\epsilon_r = 37.919$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### Ful/NR n77 Blc A 633332ch 3499.98 MHz BPSK DFTsOFDM full Edge 4 19 mm 100 MHz RBn135 RBp1/Area

**Scan 2 (61x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

#### Ful/NR n77 Blc A 633332ch 3499.98 MHz BPSK DFTsOFDM full Edge 4 19 mm 100 MHz RBn135

**RBp1/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4 mm, dy=4 mm, dz=1.4 mm

Reference Value = 19.93 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.40 W/kg

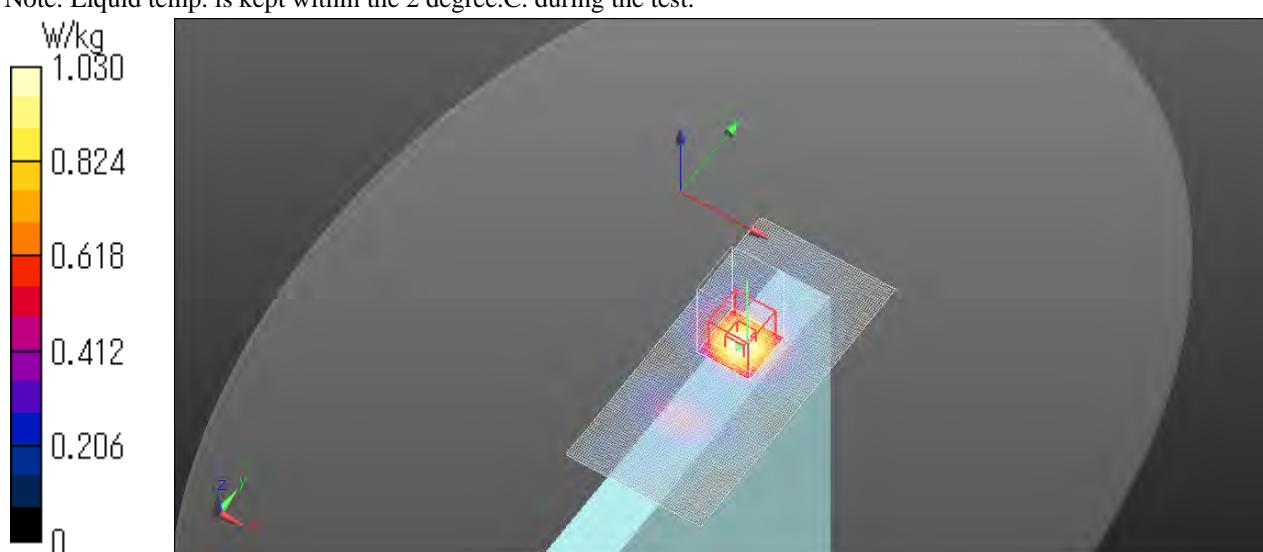
**SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.269 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.7 mm

Ratio of SAR at M2 to SAR at M1 = 75.6 %

Maximum value of SAR (measured) = 1.03 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.49 Plot No. N77-A.2 ONLY FOR FCC

Band n77\_Edge 4\_Mod BPSK\_Ch 633332\_3499.98 MHz\_BW 20\_RBN. 135\_RBP. 138  
09\_14\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C

#### Communication System info

Communication System: UID 0, #NR (0)

Communication System Band: N77/78Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20

ConvF(6.63, 6.63, 6.63) @ 3499.98 MHz

Medium parameters used:  $f = 3500$  MHz;  $\sigma = 2.972$  S/m;  $\epsilon_r = 37.919$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Red/NR n77 Blc A 633332ch 3499.98 MHz BPSK DFTsOFDM full Edge 4 0 mm 100 MHz RBn135**

**RBp69/Area Scan (61x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

**Red/NR n77 Blc A 633332ch 3499.98 MHz BPSK DFTsOFDM full Edge 4 0 mm 100 MHz RBn135**

**RBp69/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4 mm, dy=4 mm, dz=1.4 mm

Reference Value = 19.89 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.48 W/kg

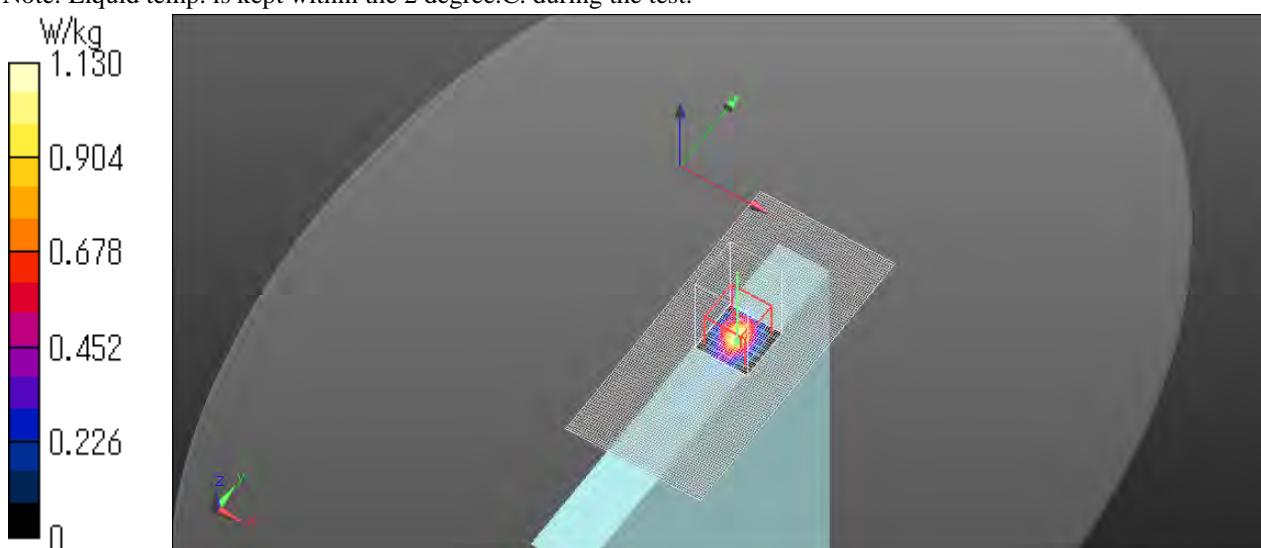
**SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.148 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 76.3 %

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

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.50 Plot No. N77-C.1 ONLY FOR FCC  
Band n77\_Edge 4\_Mod BPSK\_Ch 656000\_3840 MHz\_BW 20\_RBN. 135\_RBP. 138  
**09\_13\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C**

#### Communication System info

Communication System: UID 0, #NR (0)  
Communication System Band: N77/78Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(6.44, 6.44, 6.44) @ 3840 MHz  
Medium parameters used:  $f = 3840 \text{ MHz}$ ;  $\sigma = 3.234 \text{ S/m}$ ;  $\epsilon_r = 37.529$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

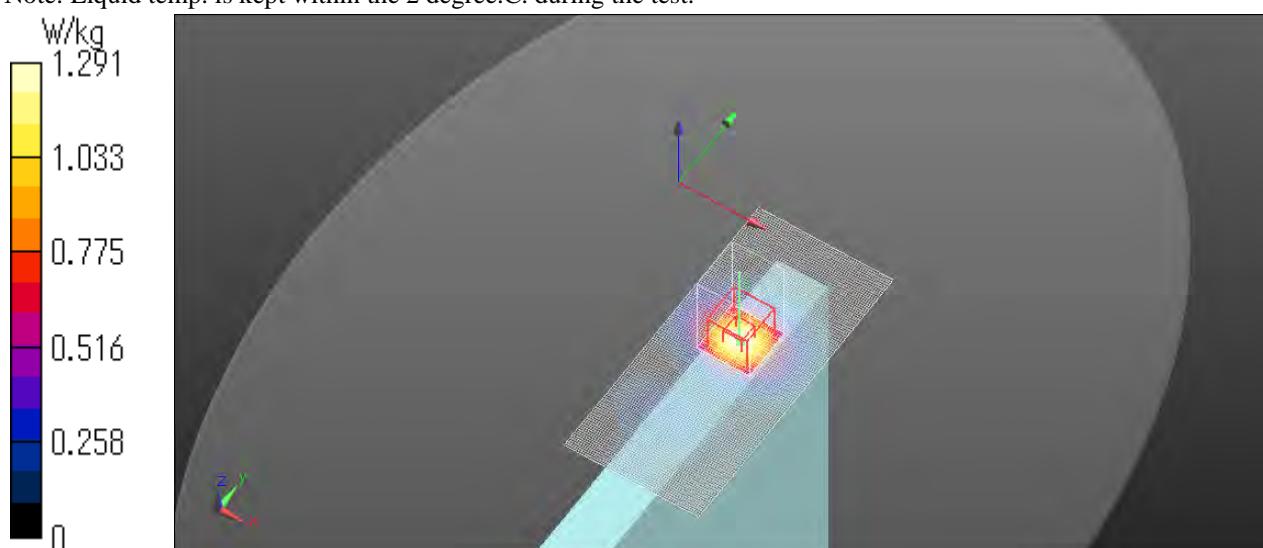
Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Ful/NR n77 Blc C 656000ch 3840 MHz BPSK DFTsOFDM full Edge 4 19 mm 100 MHz RBn135 RBp138/Area Scan (61x131x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.33 W/kg

**Ful/NR n77 Blc C 656000ch 3840 MHz BPSK DFTsOFDM full Edge 4 19 mm 100 MHz RBn135 RBp138/Zoom Scan (8x8x9)/Cube 0:** Measurement grid:  $dx=4 \text{ mm}$ ,  $dy=4 \text{ mm}$ ,  $dz=1.4 \text{ mm}$   
Reference Value = 22.10 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 1.71 W/kg  
**SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.327 W/kg**  
Smallest distance from peaks to all points 3 dB below = 15.8 mm  
Ratio of SAR at M2 to SAR at M1 = 76.4 %  
Maximum value of SAR (measured) = 1.29 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.51 Plot No. N77-C.2 ONLY FOR FCC  
Band n77\_Edge 4\_Mod BPSK\_Ch 656000\_3840 MHz\_BW 20\_RBN. 1\_RBp. 271  
**09\_13\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 deg.C**

#### Communication System info

Communication System: UID 0, #NR (0)  
Communication System Band: N77/78Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(6.44, 6.44, 6.44) @ 3840 MHz  
Medium parameters used:  $f = 3840 \text{ MHz}$ ;  $\sigma = 3.234 \text{ S/m}$ ;  $\epsilon_r = 37.529$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

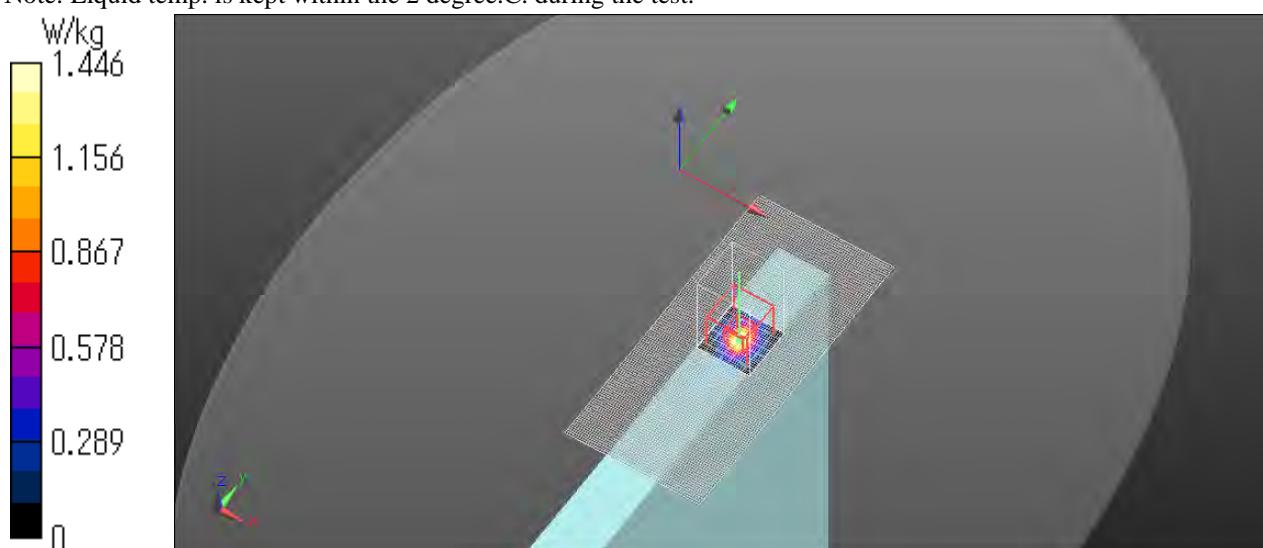
Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Red/NR n77 Blc C 656000ch 3840 MHz BPSK DFTsOFDM full Edge 4 0 mm 100 MHz RBn1 RBp271/Area Scan (61x131x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.48 W/kg

**Red/NR n77 Blc C 656000ch 3840 MHz BPSK DFTsOFDM full Edge 4 0 mm 100 MHz RBn1 RBp271/Zoom Scan (8x8x9)/Cube 0:** Measurement grid:  $dx=4 \text{ mm}$ ,  $dy=4 \text{ mm}$ ,  $dz=1.4 \text{ mm}$   
Reference Value = 23.42 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 1.90 W/kg  
**SAR(1 g) = 0.688 W/kg; SAR(10 g) = 0.187 W/kg**  
Smallest distance from peaks to all points 3 dB below = 6.1 mm  
Ratio of SAR at M2 to SAR at M1 = 77.8 %  
Maximum value of SAR (measured) = 1.45 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.52 Plot No. WM2.4  
**10\_03\_2022\_Room2 Temp\_22.0 deg.C.\_Liquid Temp\_21.5 deg.C**

**Communication System info**

Communication System: UID 0, \_WLAN (0)  
Communication System Band: 11b/g/nDuty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**Probe info:**

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(7.58, 7.58, 7.58) @ 2462 MHz  
Medium parameters used (interpolated):  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.803 \text{ S/m}$ ;  $\epsilon_r = 38.644$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

**DAE info:**

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

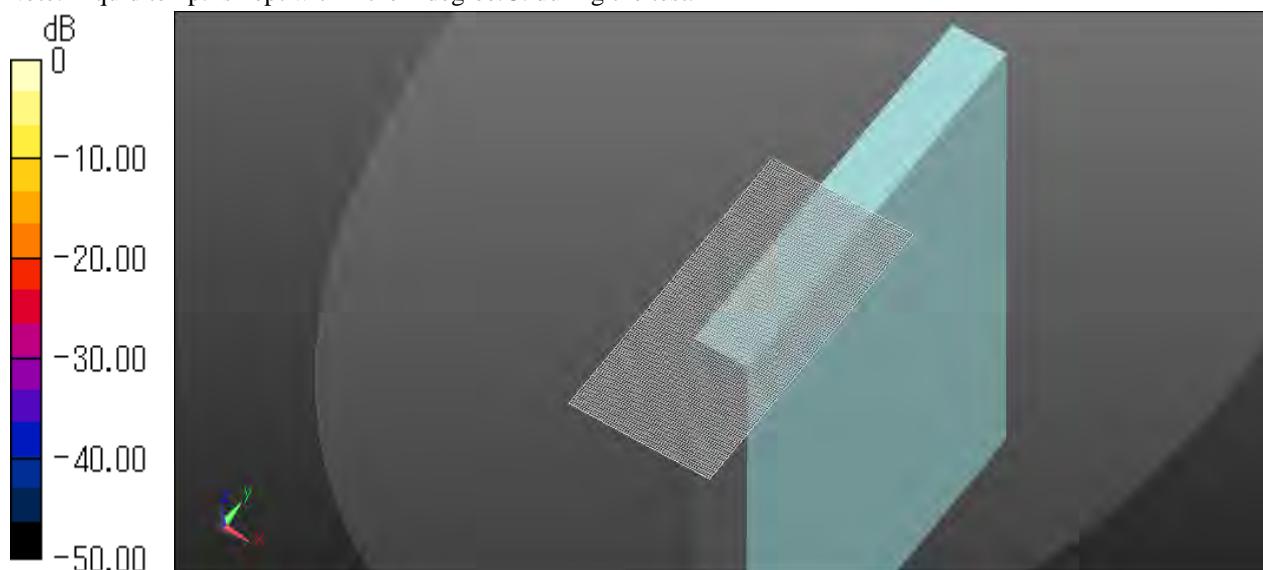
**Phantom info:**

Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1207  
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Configuration 2/Main ant WLAN 2.4G 11ch 2462 MHz Edge 2 0 mm/Area Scan (61x131x1):** Interpolated grid:  
 $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 0 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.53 Plot No. WA2.4

**09\_30\_2022\_Room2 Temp\_22.0 deg.C.\_Liquid Temp\_21.5 deg.C**

**Communication System info**

Communication System: UID 0, \_WLAN (0)

Communication System Band: 11b/g/nDuty Cycle: 1:1

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

**Probe info:**

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20

ConvF(7.58, 7.58, 7.58) @ 2462 MHz

Medium parameters used (interpolated):  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.77 \text{ S/m}$ ;  $\epsilon_r = 38.274$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

**DAE info:**

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

**Phantom info:**

Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1207

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Configuration/Main ant WLAN 2.4G 11ch 2462 MHz Edge 2 0 mm/Area Scan (61x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0444 W/kg

**Configuration/Main ant WLAN 2.4G 11ch 2462 MHz Edge 2 0 mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 4.993 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.0500 W/kg

**SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.011 W/kg**

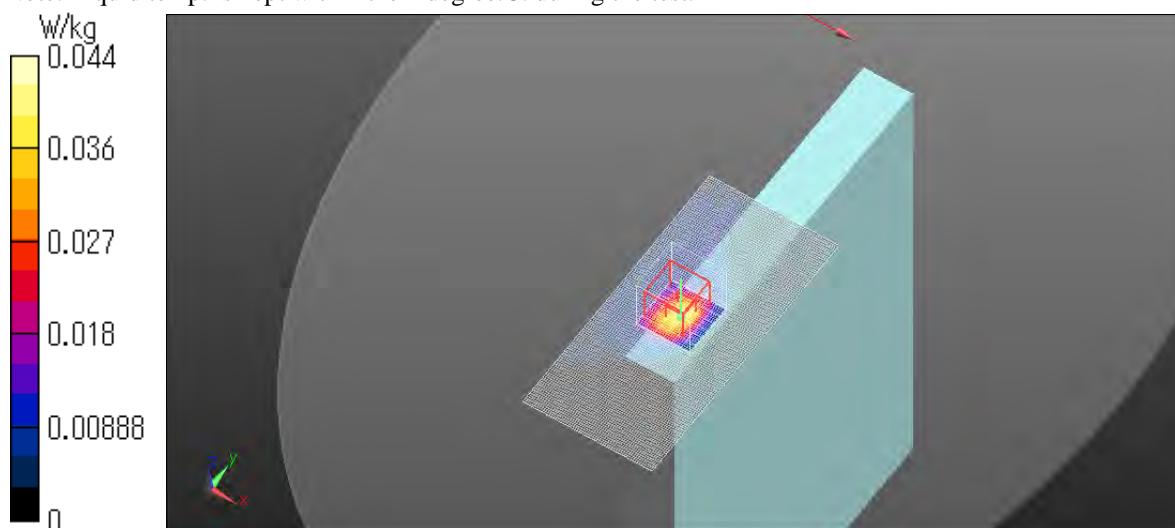
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0407 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.54 Plot No. WM5G  
**10\_05\_2022\_Room2 Temp\_22.0 deg.C.\_Liquid Temp\_21.5 deg.C**

**Communication System info**

Communication System: UID 0, \_WLAN (0)  
Communication System Band: 11a/n/acDuty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**Probe info:**

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(4.73, 4.73, 4.73) @ 5775 MHz  
Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.151 \text{ S/m}$ ;  $\epsilon_r = 35.492$ ;  $\rho = 1000 \text{ kg/m}^3$   
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

**DAE info:**

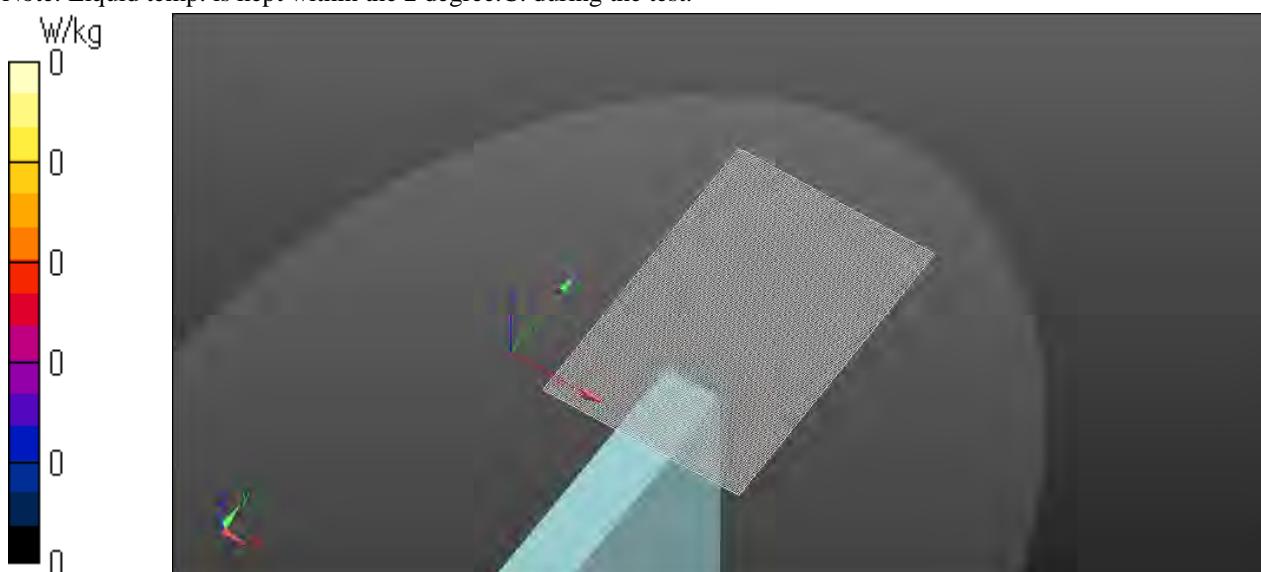
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

**Phantom info:**

Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1207  
**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Configuration/Main ant WLAN 5GHz 802.11ac VHT80 155ch 5775 MHz Edge 3 0 mm/Area Scan (101x151x1):**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.55 Plot No. WA5G  
10\_04\_2022\_Room2 Temp\_22.0 deg.C.\_Liquid Temp\_21.5 deg.C

#### Communication System info

Communication System: UID 0, \_WLAN (0)  
Communication System Band: 11a/n/ac Duty Cycle: 1:1  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### Probe info:

Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20  
ConvF(5.18, 5.18, 5.18) @ 5250 MHz  
Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.559$  S/m;  $\epsilon_r = 36.198$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

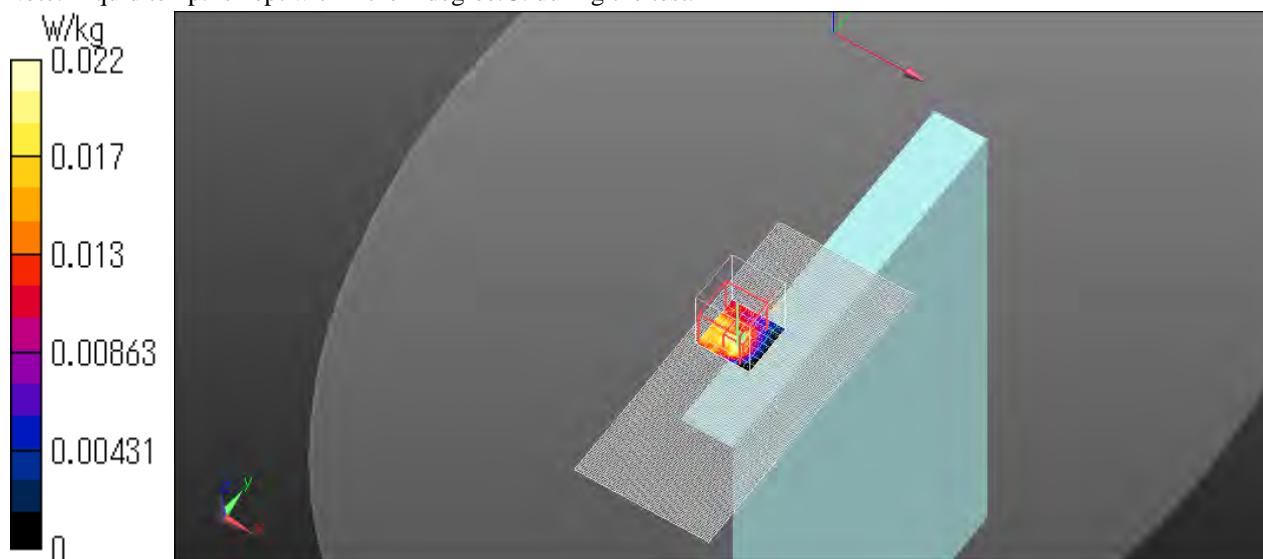
#### Phantom info:

Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section  
Type: QDOVA001BB  
Serial: TP:1207  
**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**Configuration/Aux ant WLAN 5GHz 802.11ac VHT160 114ch 5250 MHz Edge 2 0 mm/Area Scan (71x161x1):**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.0160 W/kg

**Configuration/Aux ant WLAN 5GHz 802.11ac VHT160 114ch 5250 MHz Edge 2 0 mm/Zoom Scan, dist=1.4 mm (8x8x8)/Cube 0:** Measurement grid: dx=4 mm, dy=4 mm, dz=1.4 mm  
Reference Value = 2.007 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 0.114 W/kg  
**SAR(1 g) = 0.00589 W/kg; SAR(10 g) = 0.000999 W/kg**  
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 14 mm)  
Ratio of SAR at M2 to SAR at M1 = 45.5 %

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.56 Plot No. PD.6EM

Measurement Report for Device, EDGE RIGHT, U-NII-8, IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE RIGHT, 2.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	1.0

**Hardware Setup**

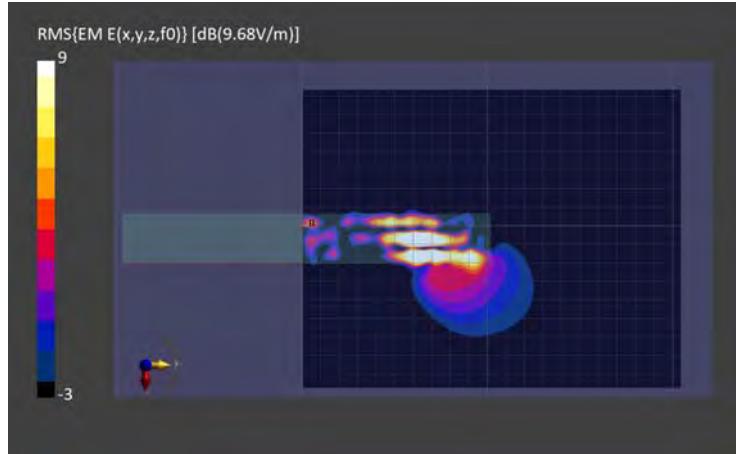
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1038	Air -	EUmmWV4 - SN9450_F1-55 GHz, 2021-11-11	DAE4 Sn509, 2022-07-13

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [ $\lambda$ ]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	Y

**Measurement Results**

Scan Type	5G Scan
Date	2022-10-31
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.286
psPDtot+ [W/m <sup>2</sup> ]	0.889
E <sub>max</sub> [V/m]	45.9
Power Drift [dB]	0.05



B.57 Plot No. PD.6EA

Measurement Report for Device, EDGE BOTTOM, U-NII-7, IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE BOTTOM, 2.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	1.0

**Hardware Setup**

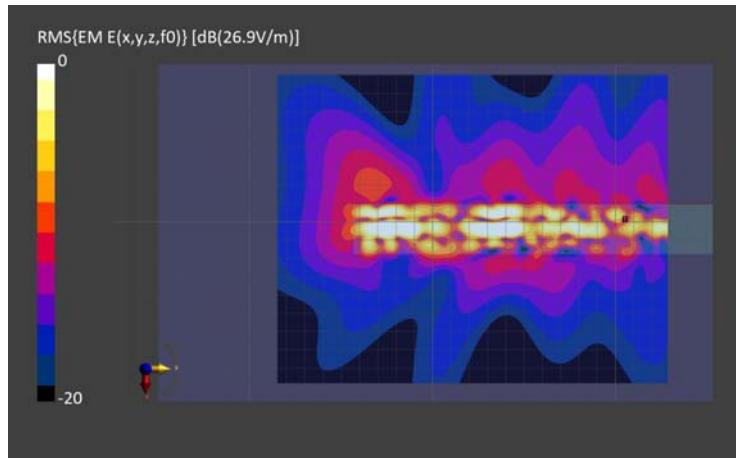
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1038	Air -	EUmmWV4 - SN9450_F1-55 GHz, 2021-11-11	DAE4 Sn509, 2022-07-13

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 200.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	2.0
MAIA	Y

**Measurement Results**

Scan Type	5G Scan
Date	2022-10-31
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.286
psPDTot+ [W/m <sup>2</sup> ]	0.692
E <sub>max</sub> [V/m]	42.5
Power Drift [dB]	0.05



B.58 Plot No. RP1

Repeat Reduction WCDMA B4 ch1513 Edge 4 1752.6 MHz RMC 12.2k

08\_29\_2022\_Room1 Temp\_22.0 deg.C\_Liquid Temp\_22.0 deg.C

**Communication System info**

Communication System: UID 0, #WCDMA (0)

Communication System Band: Band IV

Duty Cycle: 1:1

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

**Probe info:**

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(8.4, 8.4, 8.4) @ 1752.6 MHz

Medium parameters used (interpolated):  $f = 1752.6 \text{ MHz}$ ;  $\sigma = 1.314 \text{ S/m}$ ;  $\epsilon_r = 38.37$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

**DAE info:**

Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

**Phantom info:**

Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1203

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

**WCDMA/Re WCDMA4 ch1513 1752.6 MHz QPSK N/A red Edge 4 0 mm/Area Scan (51x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.35 W/kg

**WCDMA/Re WCDMA4 ch1513 1752.6 MHz QPSK N/A red Edge 4 0 mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm

Reference Value = 32.13 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.416 W/kg**

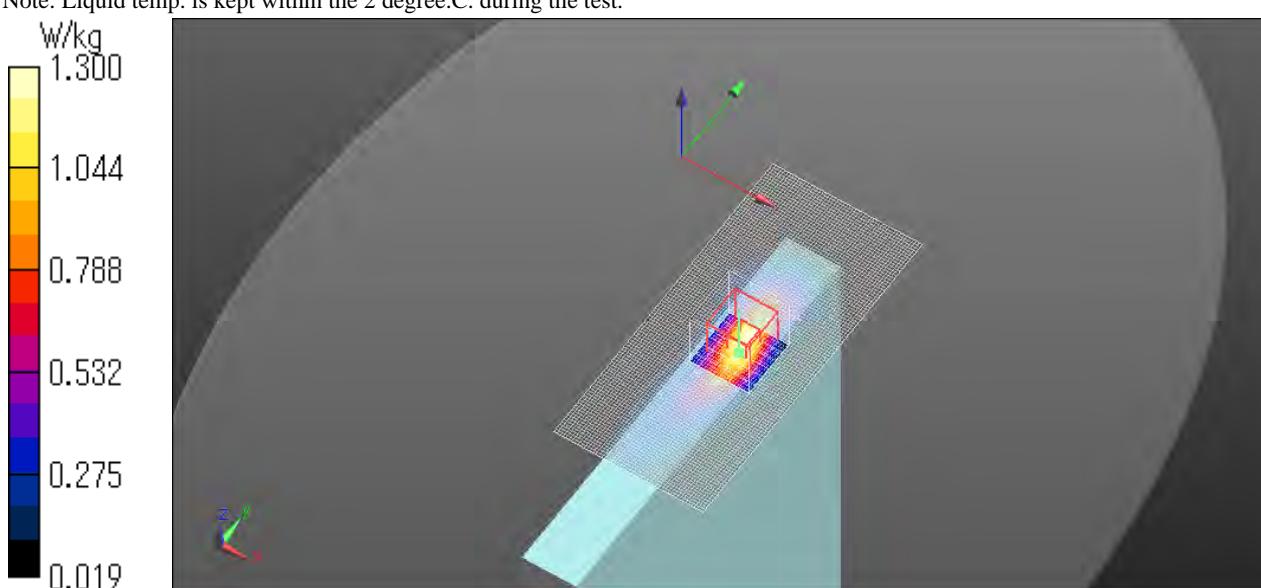
Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 51 %

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.30 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.



B.59 Plot No. RP2

NR n2 ch372000 1860 MHz BPSK N/A Edge 4 0 mm 20MHz RBn1 RBp1

08\_24\_2022\_Room3 Temp\_24.0 deg.C. Liquid Temp\_23.5 degC

#### Communication System info

Communication System: UID 0, \_Generic LTE (0)

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz) Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3745 / Calibrated: 2022/04/19

ConvF(7.53, 7.53, 7.53) @ 1860 MHz

Medium parameters used:  $f = 1860 \text{ MHz}$ ;  $\sigma = 1.42 \text{ S/m}$ ;  $\epsilon_r = 38.556$ ;  $\rho = 1000 \text{ kg/m}^3$

Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn1372 / Calibrated: 2022/04/11

#### Phantom info:

Phantom: ELI v4.0 (20 deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB

Serial: TP:1045

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

#### red/Repeat NR n2 ch372000 1860 MHz BPSK N/A Edge 4 0 mm 20 MHz RBn1 RBp1/Area Scan (51x111x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

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

#### red/Repeat NR n2 ch372000 1860 MHz BPSK N/A Edge 4 0 mm 20 MHz RBn1 RBp1/Zoom Scan (7x7x7)/Cube

0: Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$

Reference Value = 31.72 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.403 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.4 %

Maximum value of SAR (measured) = 1.32 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.

