Appendix E System Check

E.1 Room:Ise Laboratory SAR#1

E.1.1 Date/Time:2023-06-06, 10:51

Room Temp_23.0 deg.C._Liquid Temp_23.5 deg.C
Measurement Report for Device, CW, Channel 0 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1900.0, 0	8.21	1.45	40.3

Hardware Setup

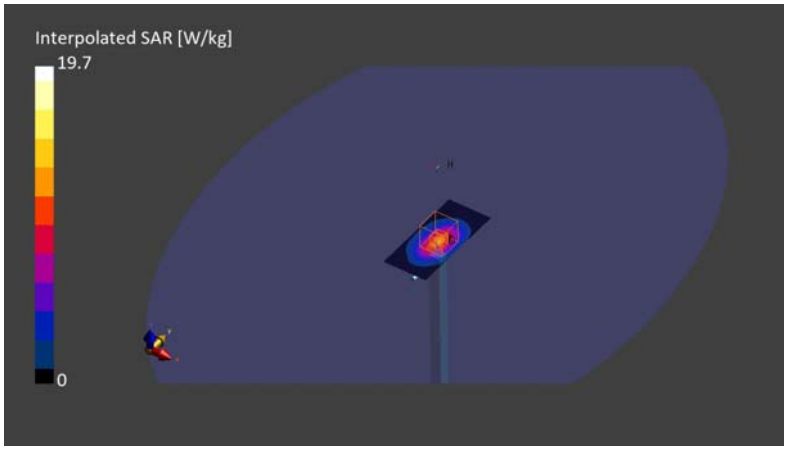
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 , 2023-Jun-06	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	10.2	10.3
psSAR10g [W/Kg]	5.32	5.36
Power Drift [dB]	0.02	0.01
M2/M1 [%]		82.1
Dist 3dB Peak [mm]		9.6



E.1.2 Date/Time:2023-06-12, 10:31

Room Temp_23.0 deg.C._Liquid Temp_23.5 deg.C
Measurement Report for Device, , , CW, Channel 0 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1900.0, 0	8.21	1.42	39.5

Hardware Setup

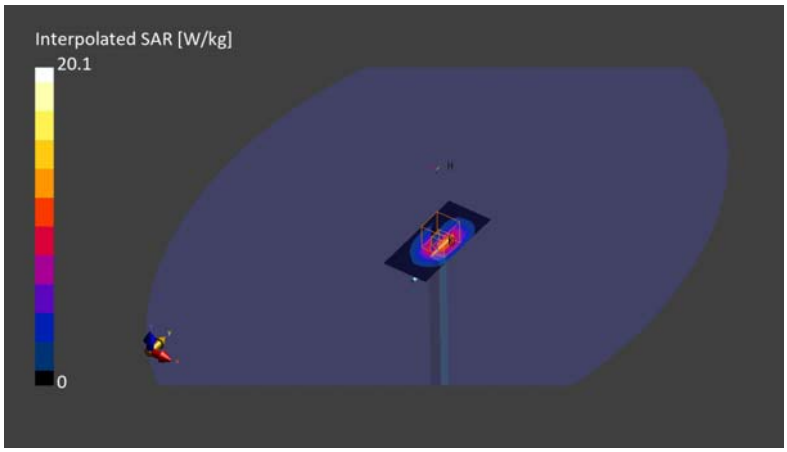
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 , 2023-Jun-12	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	10.8	10.4
psSAR10g [W/Kg]	5.70	5.40
Power Drift [dB]	0.00	-0.01
M2/M1 [%]		81.9
Dist 3dB Peak [mm]		9.6



E.1.3 Date/Time:2023-06-13, 09:05

Room Temp_23.5 deg.C._Liquid Temp_23.5 deg.C
Measurement Report for Device , CW, Channel 0 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1900.0, 0	8.21	1.37	40.5

Hardware Setup

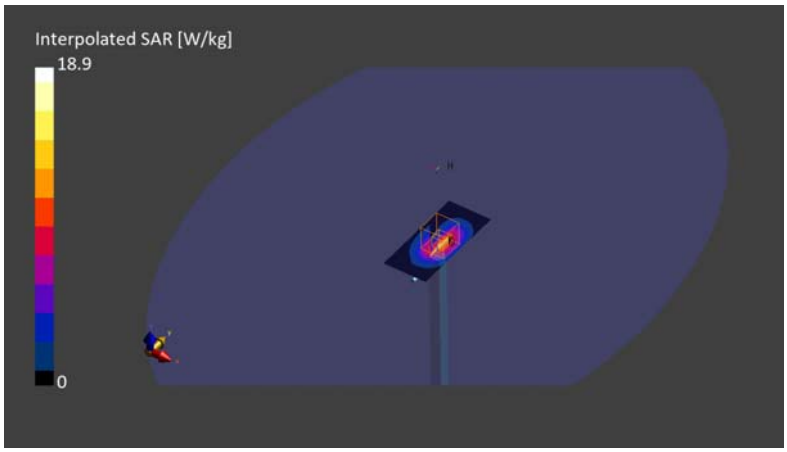
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 , 2023-Jun-13	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	10.2	9.94
psSAR10g [W/Kg]	5.41	5.17
Power Drift [dB]	0.01	0.01
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		10.8



E.1.4 Date/Time:2023-06-13, 09:47

Room Temp_23.5 deg.C._Liquid Temp_23.5 deg.C
Measurement Report for Device , CW, Channel 0 (2600.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	2600.0, 0	7.47	1.89	39.5

Hardware Setup

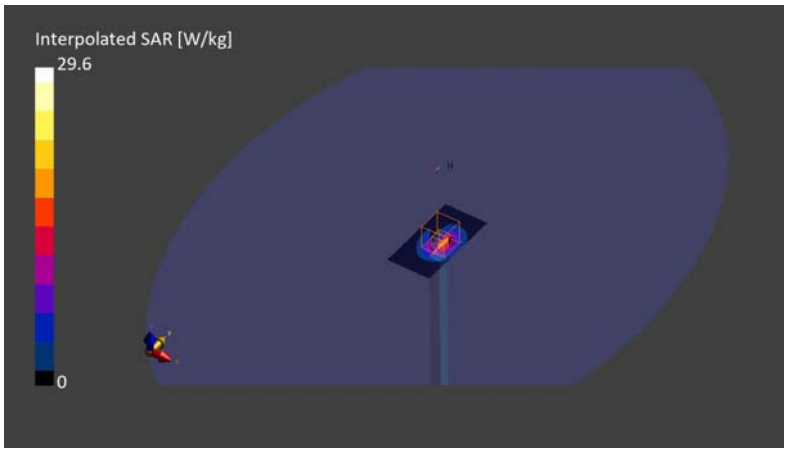
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000, 2023-Jun-13	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	13.9	13.6
psSAR10g [W/Kg]	6.39	6.14
Power Drift [dB]	-0.01	0.04
M2/M1 [%]		80.0
Dist 3dB Peak [mm]		9.0



E.1.5 Date/Time:2023-06-19, 10:10

Room Temp_22.5 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device, CW, Channel 0 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1900.0, 0	8.21	1.40	39.8

Hardware Setup

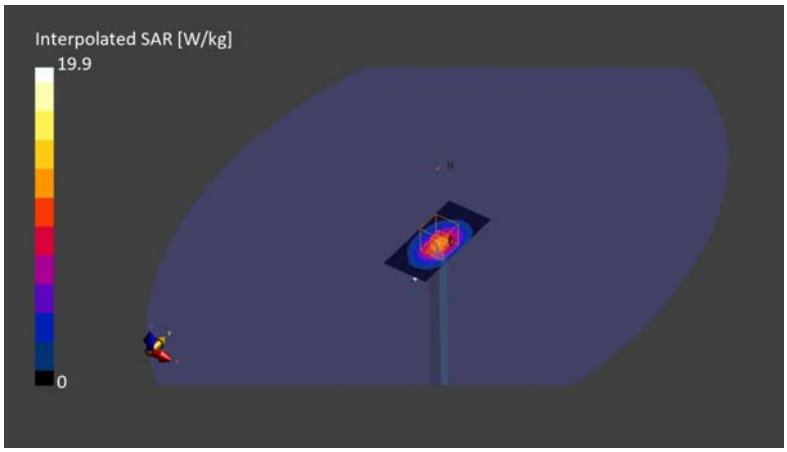
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 , 2023-Jun-19	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	10.8	10.5
psSAR10g [W/Kg]	5.70	5.49
Power Drift [dB]	-0.01	0.00
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		10.8



E.1.6 Date/Time:2023-06-20, 17:37

Room Temp_22.5 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device , CW, Channel 0 (2600.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	2600.0, 0	7.47	1.94	39.4

Hardware Setup

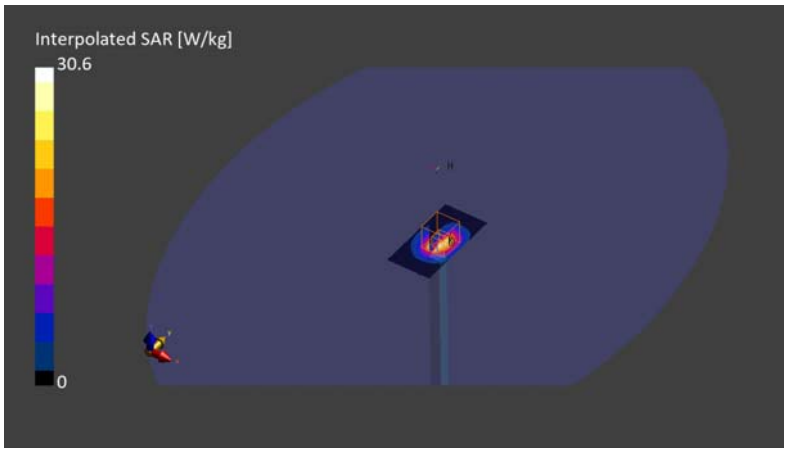
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 , 2023-Jun-20	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	14.6	14.3
psSAR10g [W/Kg]	6.66	6.44
Power Drift [dB]	-0.00	0.06
M2/M1 [%]		80.3
Dist 3dB Peak [mm]		9.0



E.1.7 Date/Time:2023-06-23, 11:13

Room Temp_22.5 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device , CW, Channel 0 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1900.0, 0	8.21	1.40	38.9

Hardware Setup

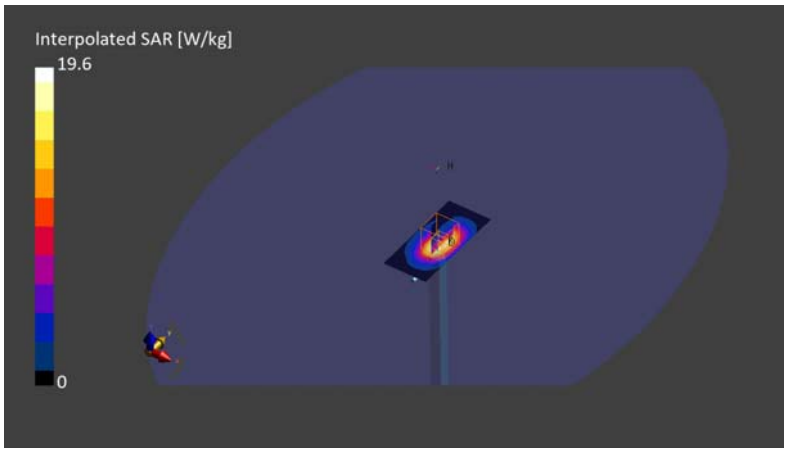
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 , 2023-Jun-23	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	10.7	10.3
psSAR10g [W/Kg]	5.68	5.38
Power Drift [dB]	-0.08	0.05
M2/M1 [%]		82.0
Dist 3dB Peak [mm]		9.9



E.1.8 Date/Time:2023-07-04, 09:47

Room Temp_22.5 deg.C._Liquid Temp_22.0 deg.C
Measurement Report for Device , CW, Channel 0 (2450.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	2450.0, 0	7.85	1.74	38.9

Hardware Setup

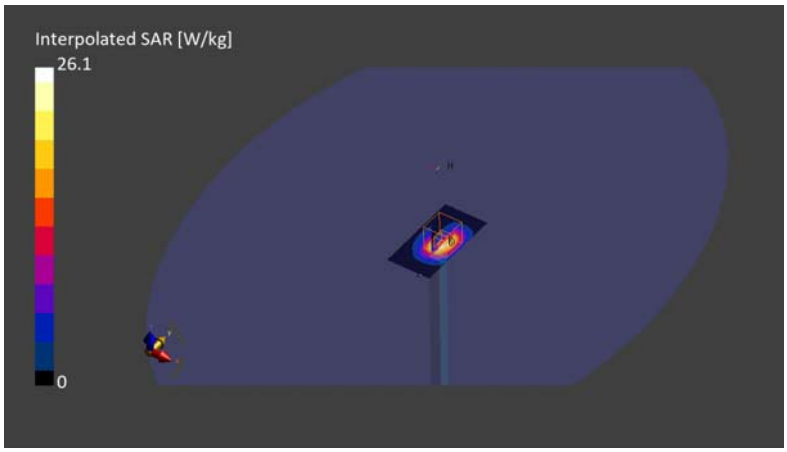
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000, 2023-Jul-04	EX3DV4 - SN3922, 2022-08-19	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	12.7	12.5
psSAR10g [W/Kg]	6.13	5.83
Power Drift [dB]	-0.03	0.01
M2/M1 [%]		80.4
Dist 3dB Peak [mm]		9.0



E.1.9 Date/Time:2023-07-04, 10:42

Room Temp_22.5 deg.C._Liquid Temp_22.0 deg.C
Measurement Report for Device, , , CW, Channel 0 (5250.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	5250.0, 0	5.54	4.65	36.2

Hardware Setup

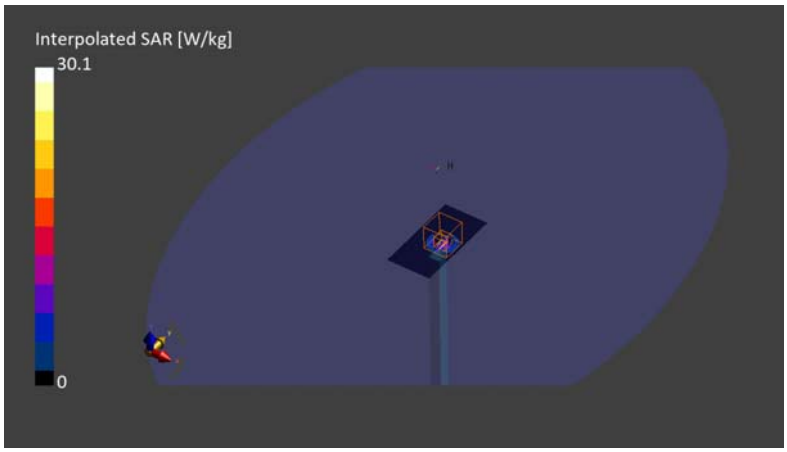
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000, 2023-Jul-04	EX3DV4 - SN3922, 2022-08-19	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	7.11	7.63
psSAR10g [W/Kg]	2.17	2.18
Power Drift [dB]	-0.03	-0.03
M2/M1 [%]		65.8
Dist 3dB Peak [mm]		7.3



E.1.10 Date/Time:2023-07-08 8:36:31

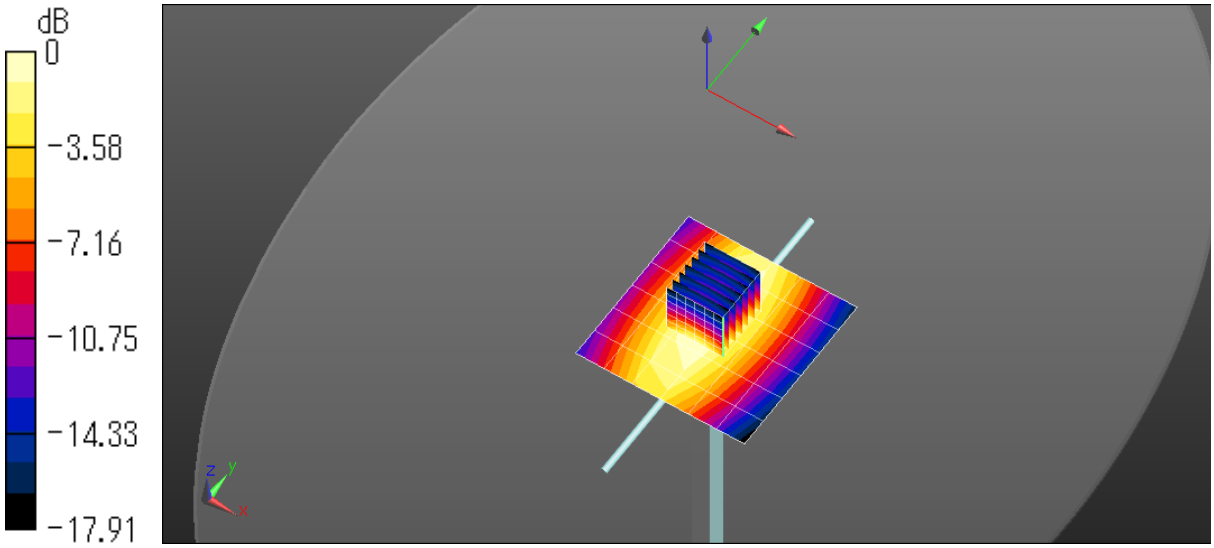
Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C

Frequency: 750 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.878 S/m; ε_r = 42.014; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1369; Calibrated: 2023/05/23
- Probe: EX3DV4 - SN3917; ConvF(10.09, 10.09, 10.09) @ 750 MHz; Calibrated: 2023/05/23
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/250mW/Area Scan (7x7x1): Measurement grid: dx=15 mm, dy=15 mm
Maximum value of SAR (measured) = 2.70 W/kg

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 61.05 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.34 W/kg
SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.46 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 = 66.2%
Maximum value of SAR (measured) = 2.96 W/kg



0 dB = 2.70 W/kg = 4.32 dBW/kg

E.1.11 Date/Time:2023-07-08 9:12:10

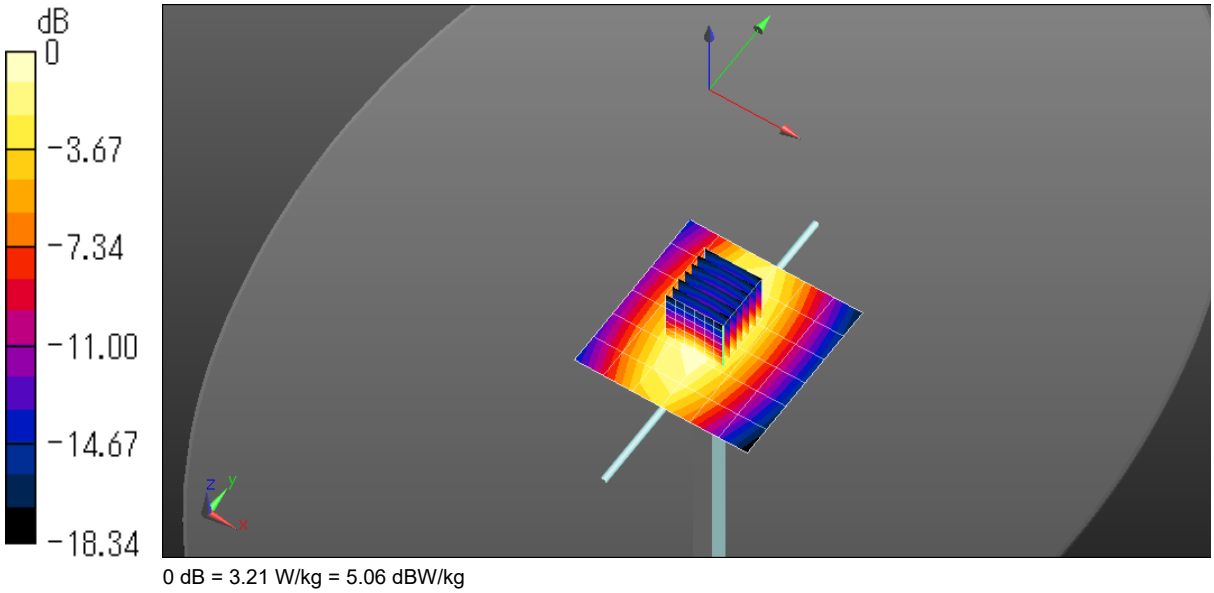
Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C

Frequency: 835 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.905 S/m; ε_r = 41.818; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1369; Calibrated: 2023/05/23
- Probe: EX3DV4 - SN3917; ConvF(10.04, 10.04, 10.04) @ 835 MHz; Calibrated: 2023/05/23
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/250mW 2/Area Scan (7x7x1): Measurement grid: dx=15 mm, dy=15 mm
Maximum value of SAR (measured) = 3.21 W/kg

Configuration/250mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy= 5mm, dz=5 mm
Reference Value = 63.88 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.93 W/kg
SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.64 W/kg
Smallest distance from peaks to all points 3 dB below = 20.5 mm
Ratio of SAR at M2 to SAR at M1 = 64.4 %
Maximum value of SAR (measured) = 3.44 W/kg



0 dB = 3.21 W/kg = 5.06 dBW/kg

E.1.12 Date/Time:2023-07-13 9:05:00

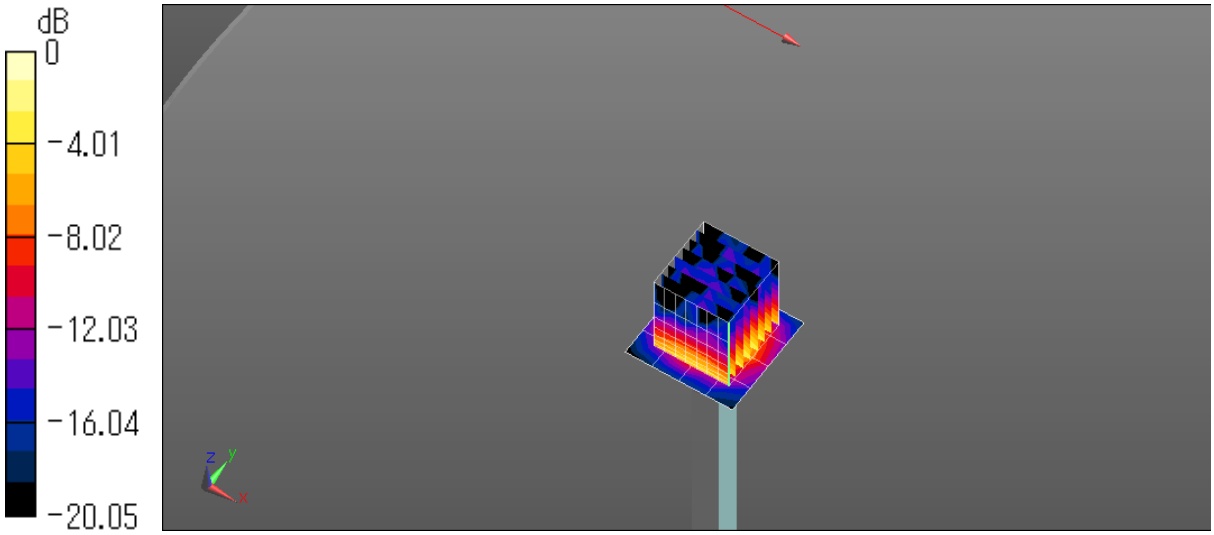
Room Temp_20.0 deg.C._Liquid Temp_20.0 deg.C

Frequency: 5600 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.857 S/m; ε_r = 36.609; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1369; Calibrated: 2023/05/23
- Probe: EX3DV4 - SN3922; ConvF(4.68, 4.68, 4.68) @ 5600 MHz; Calibrated: 2022/08/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/100mW/Area Scan (5x5x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 20.9 W/kg

Pin/100mW/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 72.54 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 34.6 W/kg
SAR(1 g) = 8.41 W/kg; SAR(10 g) = 2.43 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 64.3%
Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.9 W/kg = 13.21 dBW/kg

E.1.13 Date/Time:2023-07-14 9:39:28

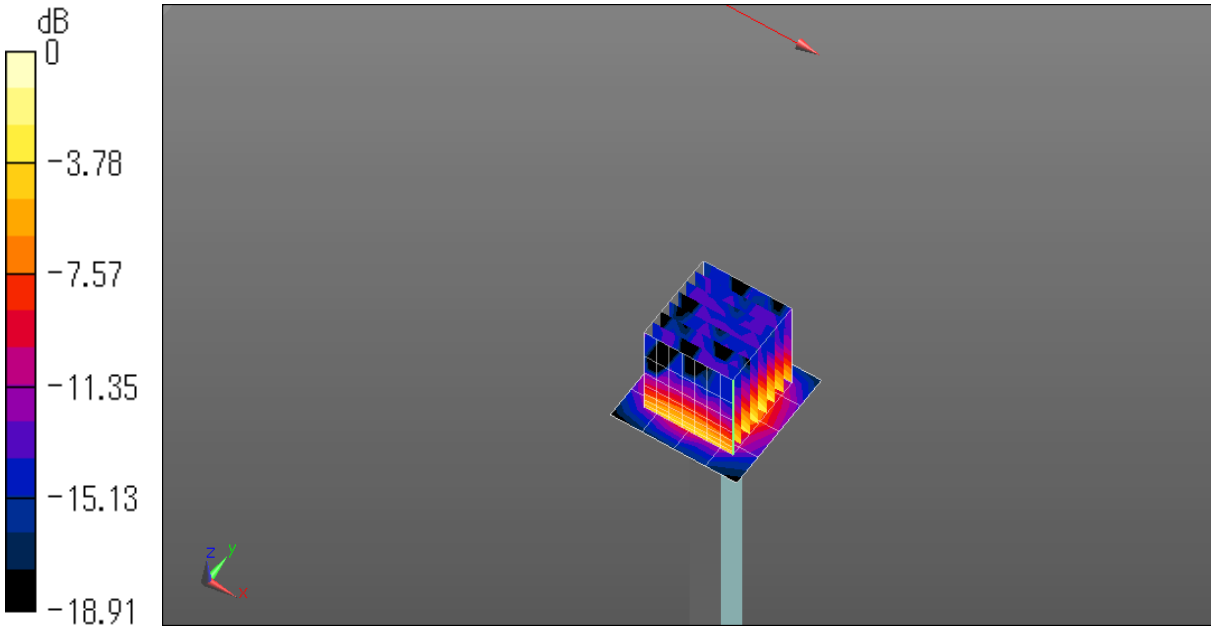
Room Temp_20.0 deg.C._Liquid Temp_20.0 deg.C

Frequency: 5800 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.123 S/m; ε_r = 36.332; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1369; Calibrated: 2023/05/23
- Probe: EX3DV4 - SN3922; ConvF(4.85, 4.85, 4.85) @ 5800 MHz; Calibrated: 2022/08/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/100mW/Area Scan (5x5x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 20.4 W/kg

Pin/100mW/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.14 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 35.4 W/kg
SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.38 W/kg
Smallest distance from peaks to all points 3 dB below = 7.5 mm
Ratio of SAR at M2 to SAR at M1 = 62.7%
Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.4 W/kg = 13.10 dBW/kg

E.1.14 Date/Time:2023-07-18 18:22:13

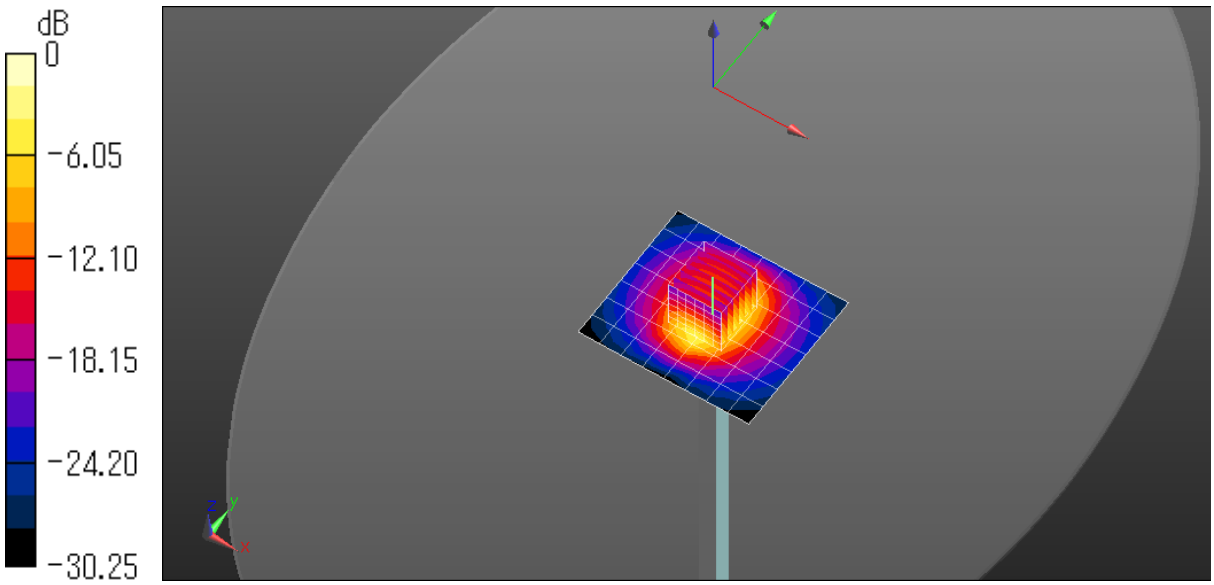
Room Temp_20.0 deg.C._Liquid Temp_19.5 deg.C

Frequency: 2450 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.745 S/m; ε_r = 39.999; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1369; Calibrated: 2023/05/23
- Probe: EX3DV4 - SN3922; ConvF(7.85, 7.85, 7.85) @ 2450 MHz; Calibrated: 2022/08/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/250mW/Area Scan (9x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 21.3 W/kg

Pin/250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 115.9 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 26.7 W/kg
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.24 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 50.3%
Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.3 W/kg = 13.28 dBW/kg

E.2 Room:Ise Laboratory SAR#2
E.2.1 Date/Time:2023-06-05, 12:34

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device, CW, Channel 0 (835.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	835.0, 0	9.7	0.923	43.8

Hardware Setup

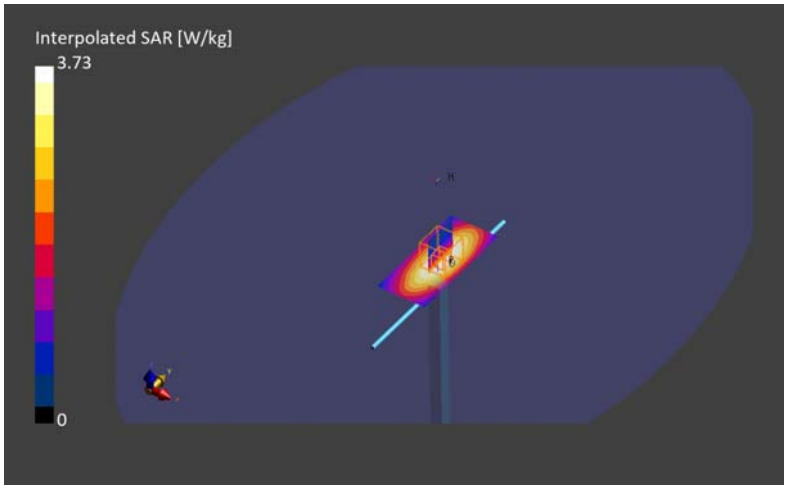
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000, 2023-Jun-05	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn509, 2022-07-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.49	2.43
psSAR10g [W/Kg]	1.64	1.58
Power Drift [dB]	0.00	0.01
M2/M1 [%]		87.9
Dist 3dB Peak [mm]		19.7



E.2.2 Date/Time:2023-06-08, 08:11

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device, , , CW, Channel 0 (1750.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1750.0, 0	8.8	1.31	39.7

Hardware Setup

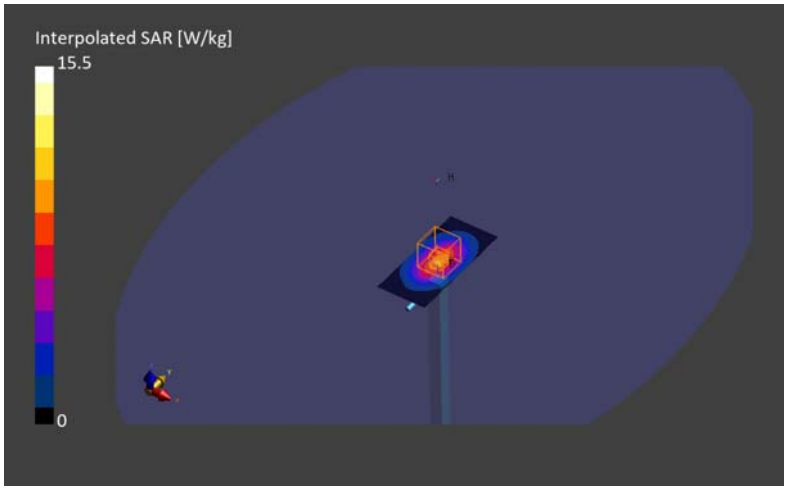
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 , 2023-Jun-08	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn509, 2022-07-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	8.64	8.45
psSAR10g [W/Kg]	4.60	4.52
Power Drift [dB]	0.00	-0.00
M2/M1 [%]		83.2
Dist 3dB Peak [mm]		10.8



E.2.3 Date/Time:2023-06-12, 07:52

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device , CW, Channel 0 (1750.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1750.0, 0	8.8	1.35	39.5

Hardware Setup

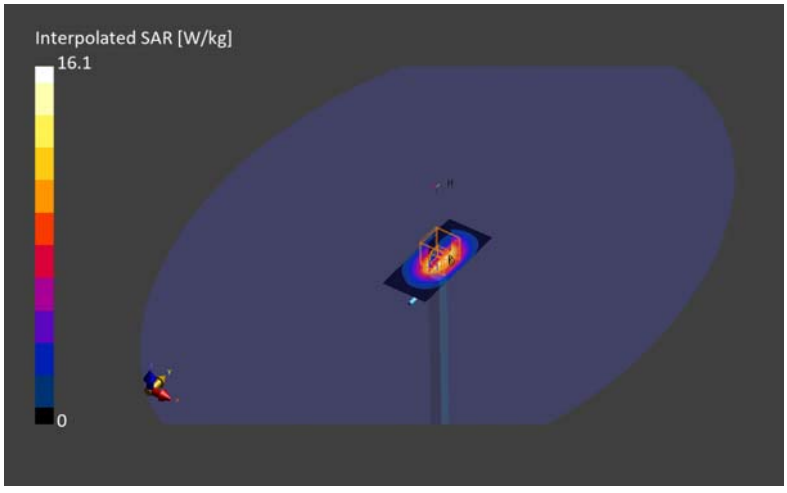
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 , 2023-Jun-12	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn509, 2022-07-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	8.90	8.57
psSAR10g [W/Kg]	4.75	4.54
Power Drift [dB]	-0.03	0.00
M2/M1 [%]		82.7
Dist 3dB Peak [mm]		9.9



E.2.4 Date/Time:2023-06-13, 11:08

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device , CW, Channel 0 (835.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	835.0, 0	9.7	0.938	42.1

Hardware Setup

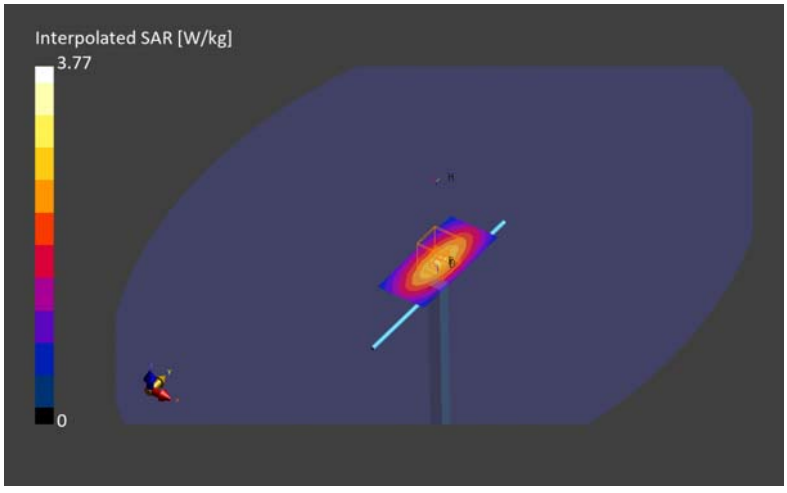
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 2023-Jun-13, 2023-Jun-13	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn509, 2022-07-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.53	2.48
psSAR10g [W/Kg]	1.66	1.63
Power Drift [dB]	-0.00	-0.00
M2/M1 [%]		88.0
Dist 3dB Peak [mm]		18.4



E.2.5 Date/Time:2023-06-13, 10:26

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device, , , CW, Channel 0 (1750.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1750.0, 0	8.8	1.36	40.2

Hardware Setup

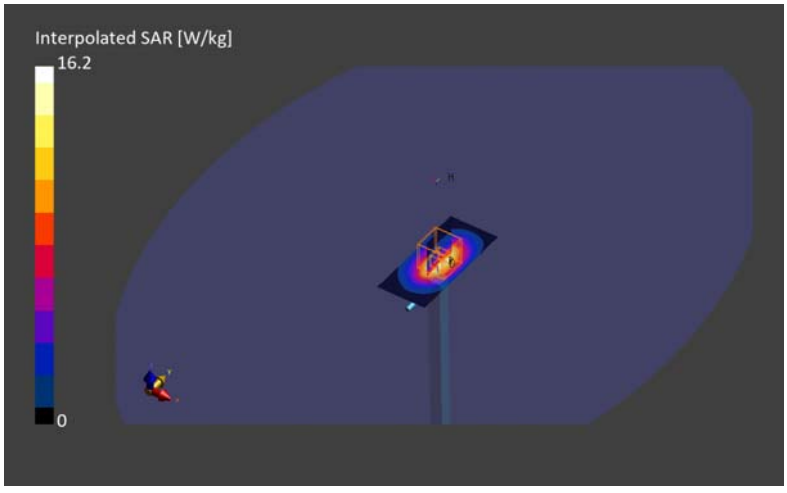
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 , 2023-Jun-13	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn509, 2022-07-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	8.96	8.73
psSAR10g [W/Kg]	4.79	4.65
Power Drift [dB]	0.01	0.01
M2/M1 [%]		82.8
Dist 3dB Peak [mm]		10.8



E.2.6 Date/Time:2023-06-19, 09:00

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device, CW, Channel 0 (835.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	835.0, 0	9.7	0.942	40.9

Hardware Setup

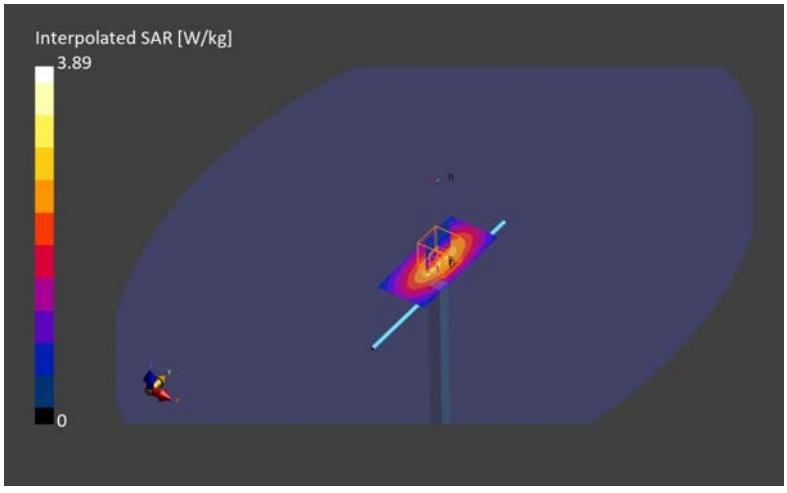
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000, 2023-Jun-19	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.54	2.49
psSAR10g [W/Kg]	1.67	1.61
Power Drift [dB]	-0.00	-0.01
M2/M1 [%]		87.1
Dist 3dB Peak [mm]		18.4



E.2.7 Date/Time:2023-06-20, 12:40

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device , CW, Channel 0 (835.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	835.0, 0	9.7	0.943	40.2

Hardware Setup

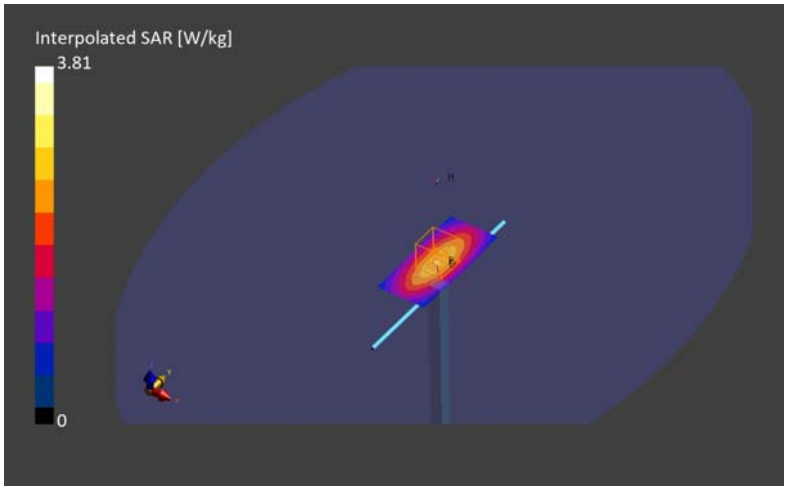
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 , 2023-Jun-20	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.52	2.48
psSAR10g [W/Kg]	1.66	1.62
Power Drift [dB]	0.00	0.00
M2/M1 [%]		87.5
Dist 3dB Peak [mm]		22.1



E.2.8 Date/Time:2023-06-20, 13:13

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device, , , CW, Channel 0 (1750.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	1750.0, 0	8.8	1.34	38.4

Hardware Setup

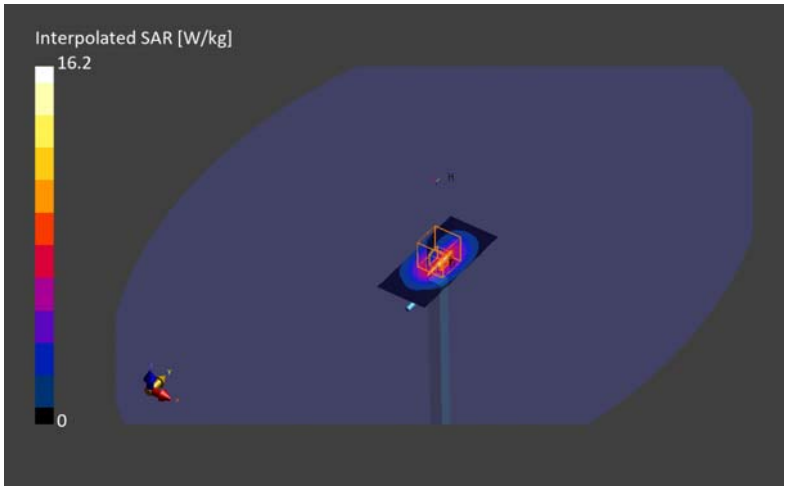
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 , 2023-Jun-20	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	8.79	8.71
psSAR10g [W/Kg]	4.70	4.62
Power Drift [dB]	-0.04	0.02
M2/M1 [%]		82.8
Dist 3dB Peak [mm]		10.3



E.2.9 Date/Time:2023-06-26, 09:13

Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C
Measurement Report for Device, , , CW, Channel 0 (835.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	835.0, 0	9.7	0.940	39.9

Hardware Setup

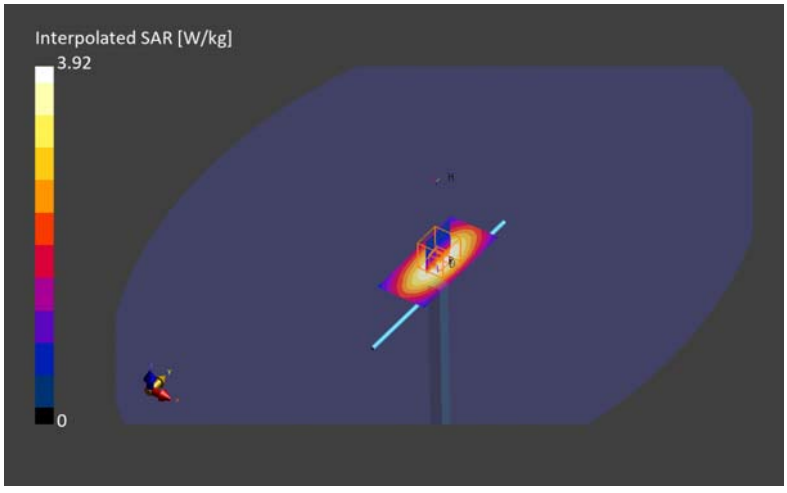
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 , 2023-Jun-26	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.61	2.54
psSAR10g [W/Kg]	1.72	1.65
Power Drift [dB]	0.00	-0.02
M2/M1 [%]		87.6
Dist 3dB Peak [mm]		20.5



E.2.10 Date/Time:2023-07-03, 16:12

Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C
Measurement Report for Device, CW, Channel 0 (5600.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	5600.0, 0	4.91	4.82	36.2

Hardware Setup

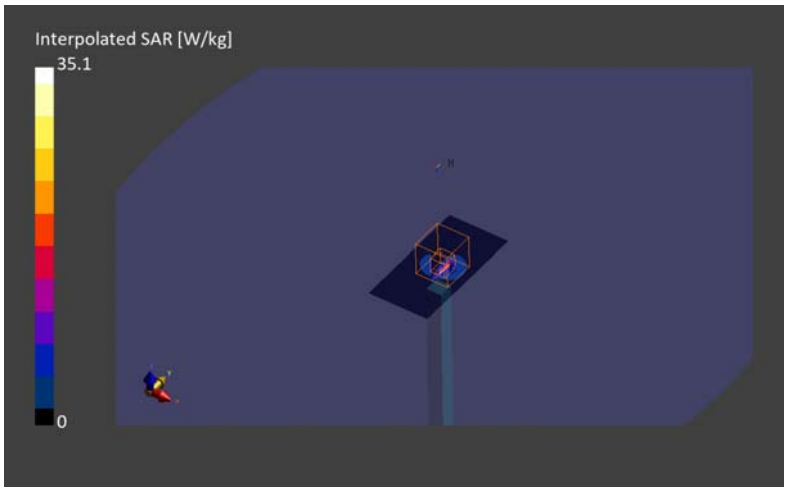
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000, 2023-Jul-03	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	8.09	8.44
psSAR10g [W/Kg]	2.37	2.42
Power Drift [dB]	0.03	0.05
M2/M1 [%]		62.9
Dist 3dB Peak [mm]		7.2



E.2.11 Date/Time:2023-07-03, 16:31

Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C
Measurement Report for Device, CW, Channel 0 (5800.0 MHz)

Date/Time:2023-07-03, 16:31
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	5800.0, 0	5.19	5.09	35.8

Hardware Setup

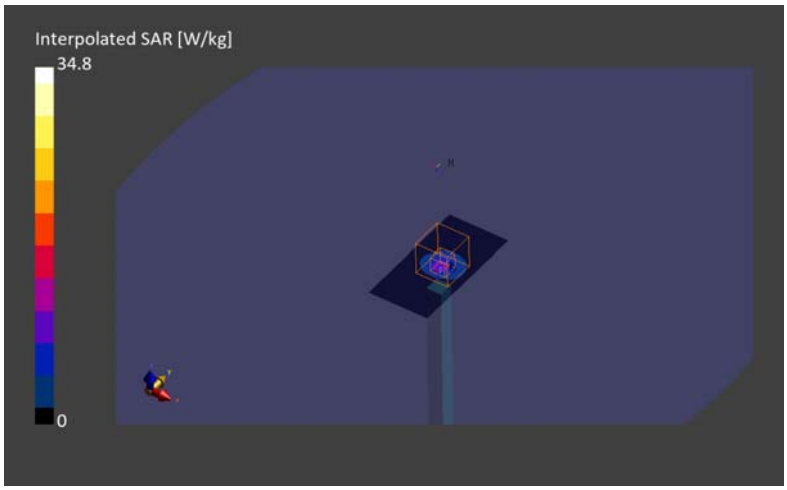
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000, 2023-Jul-03	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	7.61	7.99
psSAR10g [W/Kg]	2.25	2.30
Power Drift [dB]	-0.06	0.04
M2/M1 [%]		61.1
Dist 3dB Peak [mm]		7.2



E.2.12 Date/Time:2023-07-08 9:43:01

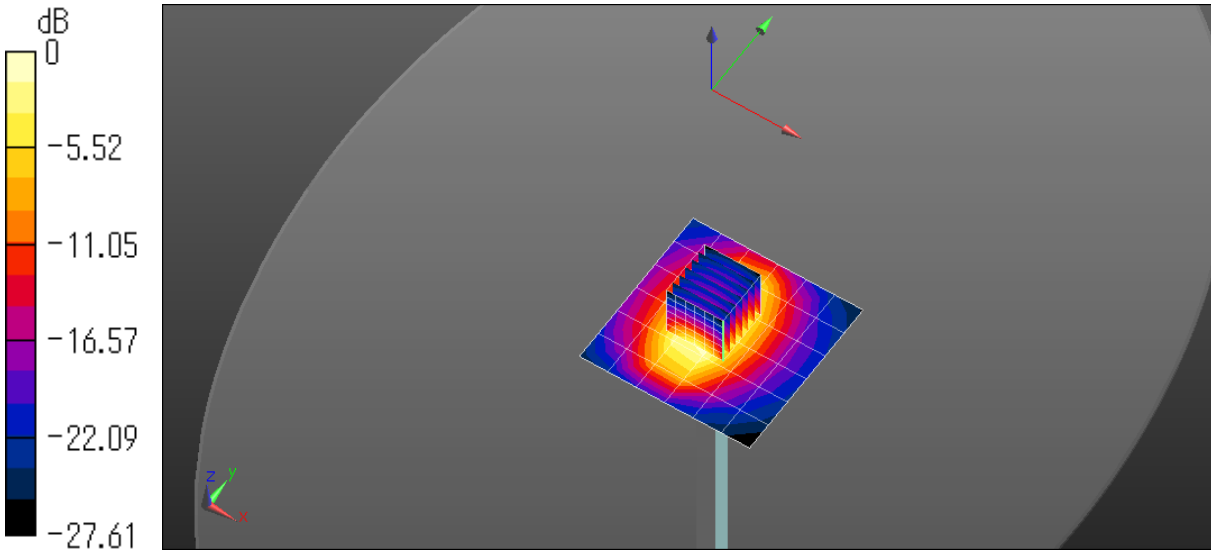
Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C

Frequency: 1750 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.331 S/m; ε_r = 38.599; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1372; Calibrated: 2023/03/16
- Probe: EX3DV4 - SN7652; ConvF(8.8, 8.64, 8.92) @ 1750 MHz; Calibrated: 2023/04/24
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 TP1207 (30deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/250mW/Area Scan (7x7x1): Measurement grid: dx=15 mm, dy=15 mm
Maximum value of SAR (measured) = 9.60 W/kg

Pin/250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 105.7 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 8.84 W/kg; SAR(10 g) = 4.69 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54. 8%
Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 9.60 W/kg = 9.82 dBW/kg

E.2.13 Date/Time:2023-07-08 10:26:55

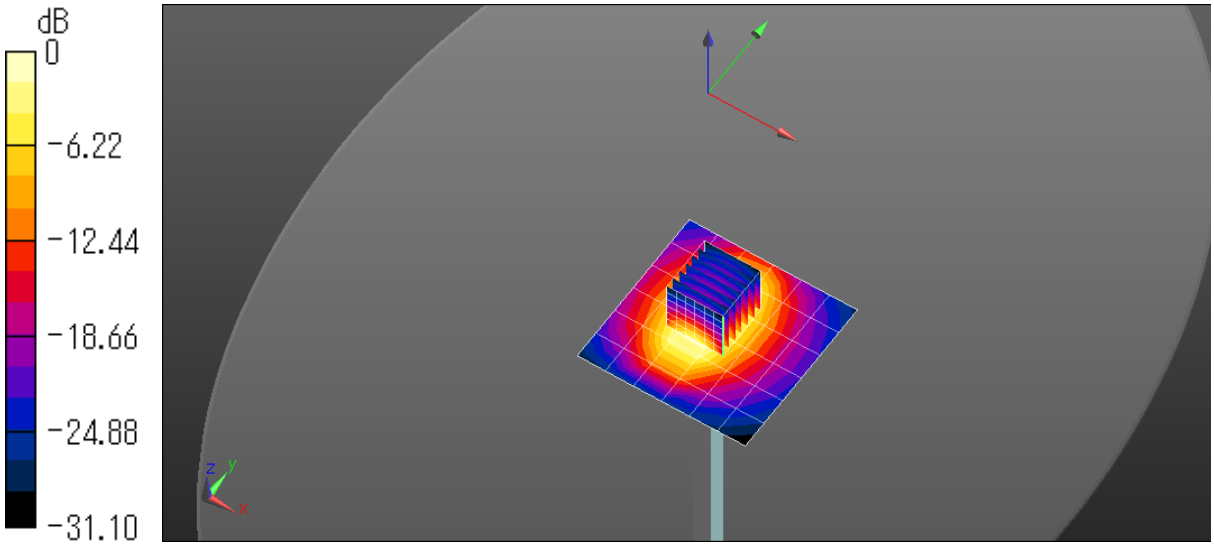
Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C

Frequency: 1900 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.417 S/m; ε_r = 38.355; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1372; Calibrated: 2023/03/16
- Probe: EX3DV4 - SN7652; ConvF(8.35, 8.13, 8.46) @ 1900 MHz; Calibrated: 2023/04/24
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 TP1207 (30deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/250mW 2/Area Scan (7x7x1): Measurement grid: dx=15 mm, dy=15 mm
Maximum value of SAR (measured) = 10.5 W/kg

Pin/250mW 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz= 5mm
Reference Value = 111.6 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 18.9 W/kg
SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.41 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 55.1 %
Maximum value of SAR (measured) = 16.0 W/kg



0 dB = 10.5 W/kg = 10.21 dBW/kg

E.2.14 Date/Time:2023-07-12, 20:04

Room Temp_20.0 deg.C._Liquid Temp_20.0 deg.C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	5600.0, 0	4.91	4.97	35.0

Hardware Setup

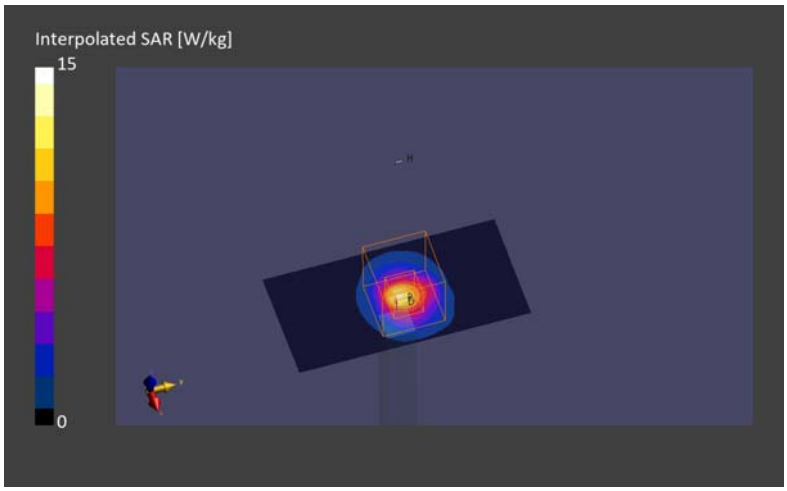
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 2023-Jun-30 only precheck, 2023-Jul-12	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	8.27	8.58
psSAR10g [W/Kg]	2.43	2.48
Power Drift [dB]	0.01	0.03
M2/M1 [%]		63.6
Dist 3dB Peak [mm]		7.6



E.2.15 Date/Time:2023-07-12, 20:19

Room Temp_20.0 deg.C._Liquid Temp_20.0 deg.C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	5800.0, 0	5.19	5.25	34.7

Hardware Setup

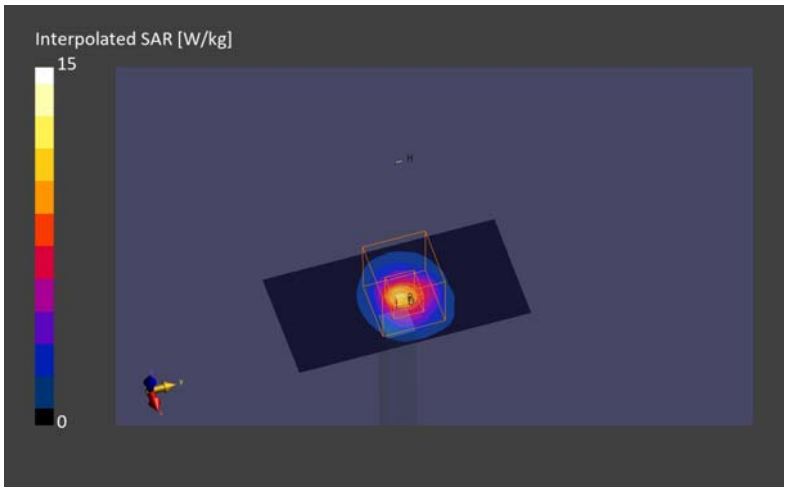
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 2023-Jun-30 only precheck, 2023-Jul-12	EX3DV4 - SN7652, 2023-04-24	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	7.71	7.97
psSAR10g [W/Kg]	2.28	2.31
Power Drift [dB]	0.03	0.02
M2/M1 [%]		61.8
Dist 3dB Peak [mm]		7.9



E.2.16 Date/Time:2023-07-17 10:23:08

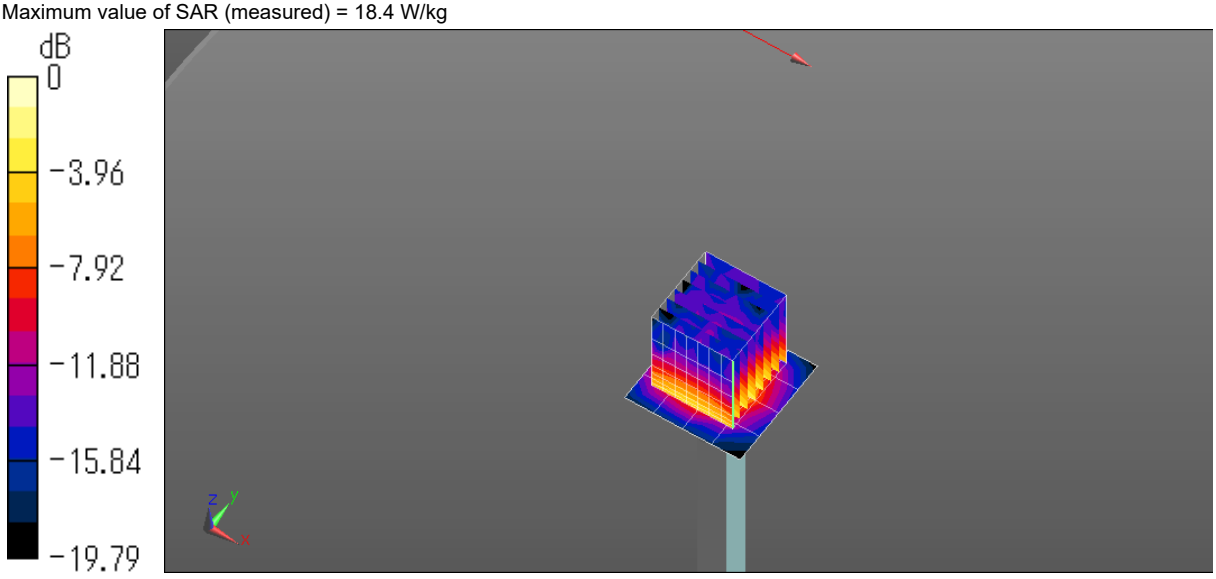
Room Temp_20.0 deg.C._Liquid Temp_20.0 deg.C

Frequency: 5250 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.574 S/m; ε_r = 37.248; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1372; Calibrated: 2023/03/16
- Probe: EX3DV4 - SN7652; ConvF(5.72, 5.63, 5.91) @ 5250 MHz; Calibrated: 2023/04/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 TP1207 (30deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/100mW 3/Area Scan (5x5x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 16.7 W/kg

Pin/100mW 3/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.73 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 30.6 W/kg
SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.24 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 65.6%
Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 16.7 W/kg = 12.23 dBW/kg

E.2.17 Date/Time:2023-07-17 13:31:53

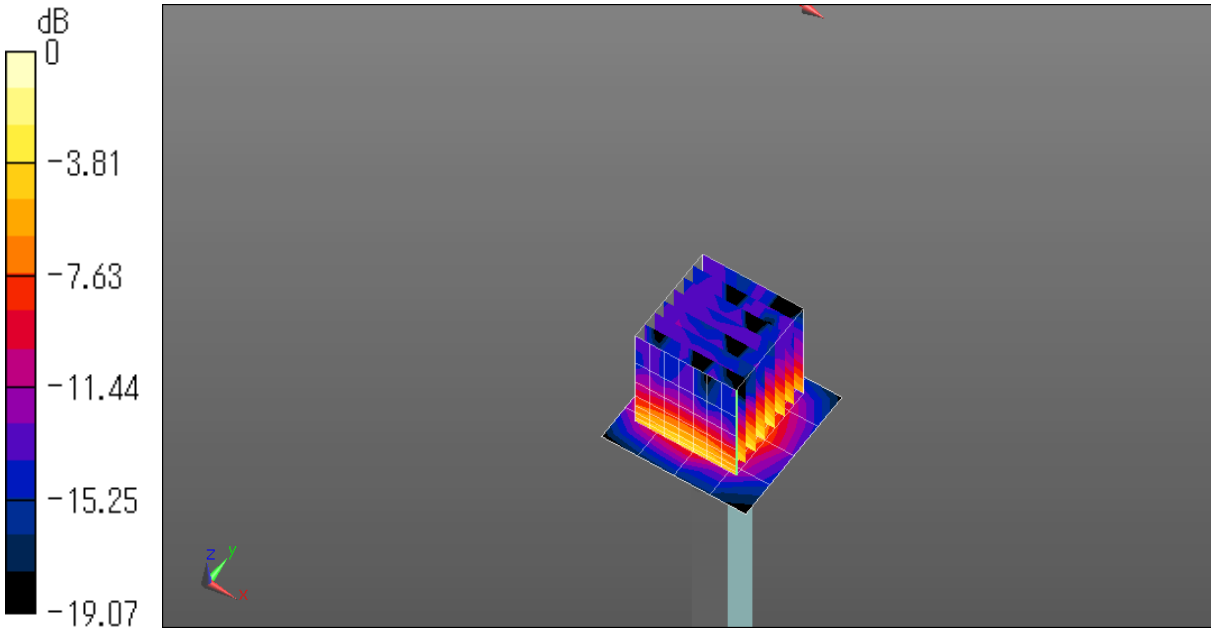
Room Temp_20.0 deg.C._Liquid Temp_20.0 deg.C

Frequency: 5600 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.906 S/m; ε_r = 36.78; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1372; Calibrated: 2023/03/16
- Probe: EX3DV4 - SN7652; ConvF(4.91, 4.83, 5.07) @ 5600 MHz; Calibrated: 2023/04/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 TP1207 (30deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/100mW 2/Area Scan (5x5x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 19.5 W/kg

Pin/100mW 2/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 69.44 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 35.5 W/kg
SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.44 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 63.6%
Maximum value of SAR (measured) = 20.9 W/kg



0 dB = 19.5 W/kg = 12.91 dBW/kg

E.2.18 Date/Time:2023-07-17 14:20:21

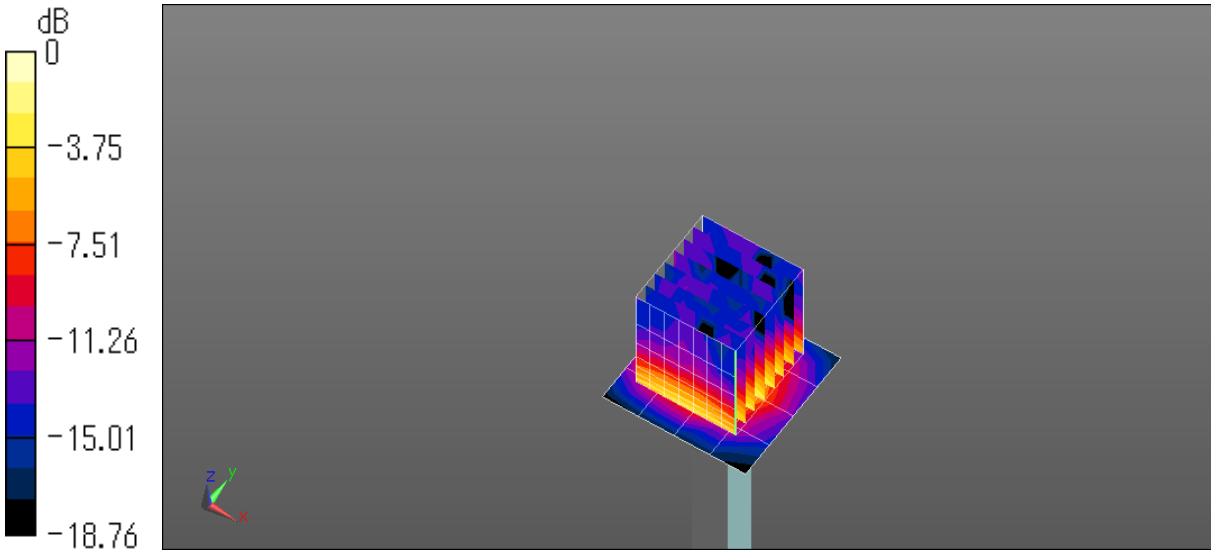
Room Temp_20.0 deg.C._Liquid Temp_20.0 deg.C

Frequency: 5800 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.201 S/m; ε_r = 36.459; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1372; Calibrated: 2023/03/16
- Probe: EX3DV4 - SN7652; ConvF(5.19, 5.05, 5.36) @ 5800 MHz; Calibrated: 2023/04/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 TP1207 (30deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/100mW/Area Scan (5x5x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 19.2 W/kg

Pin/100mW/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 67.02 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 35.0 W/kg
SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.34 W/kg
Smallest distance from peaks to all points 3 dB below = 7.5 mm
Ratio of SAR at M2 to SAR at M1 = 62.6%
Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.2 W/kg = 12.83 dBW/kg

E.3 Room:Ise Laboratory SAR#3
E.3.1 Date/Time: 2023-06-05 15:07:37

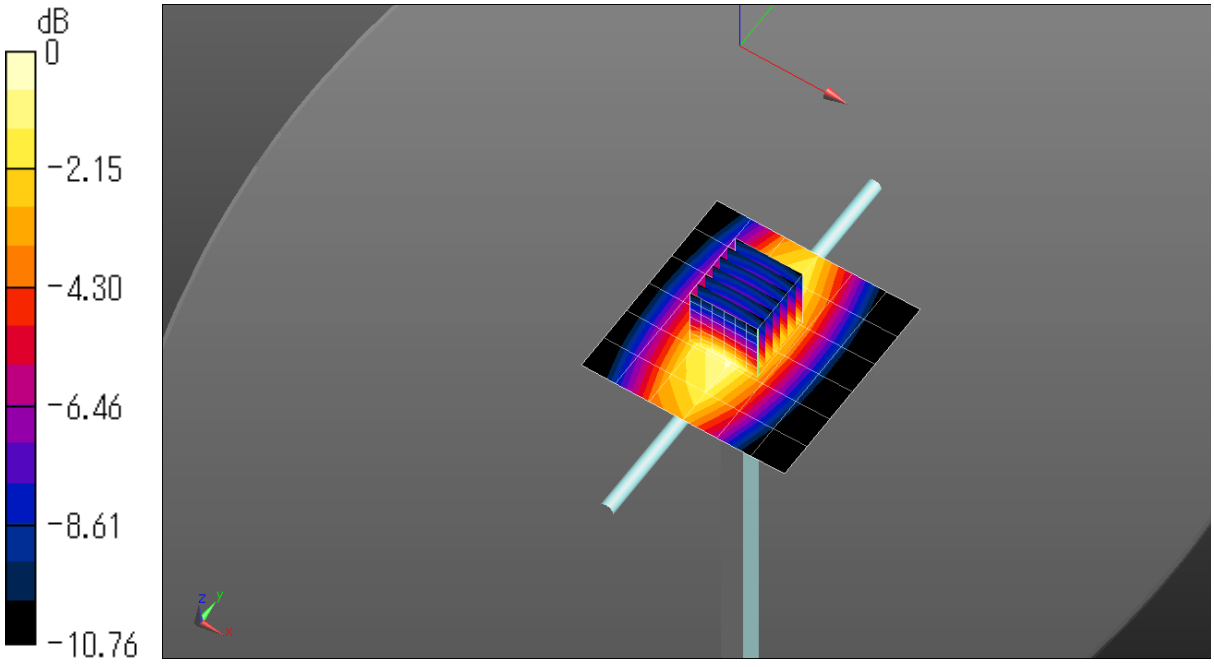
Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C

Frequency: 750 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.9 S/m; ε_r = 41.768; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1372; Calibrated: 2023/03/16
- Probe: EX3DV4 - SN3825; ConvF(9.83, 9.83, 9.83) @ 750 MHz; Calibrated: 2022/07/20
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20 deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/250 mW/Area Scan (7x7x1): Measurement grid: dx=15 mm, dy=15 mm
Maximum value of SAR (measured) = 2.89 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 59.86 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.43 W/kg
SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.44 W/kg
Smallest distance from peaks to all points 3 dB below = 20 mm
Ratio of SAR at M2 to SAR at M1 = 64.4 %
Maximum value of SAR (measured) = 3.00 W/kg



0 dB = 3.00 W/kg = 4.77 dBW/kg

E.3.2 Date/Time: 2023-06-13 11:54:02

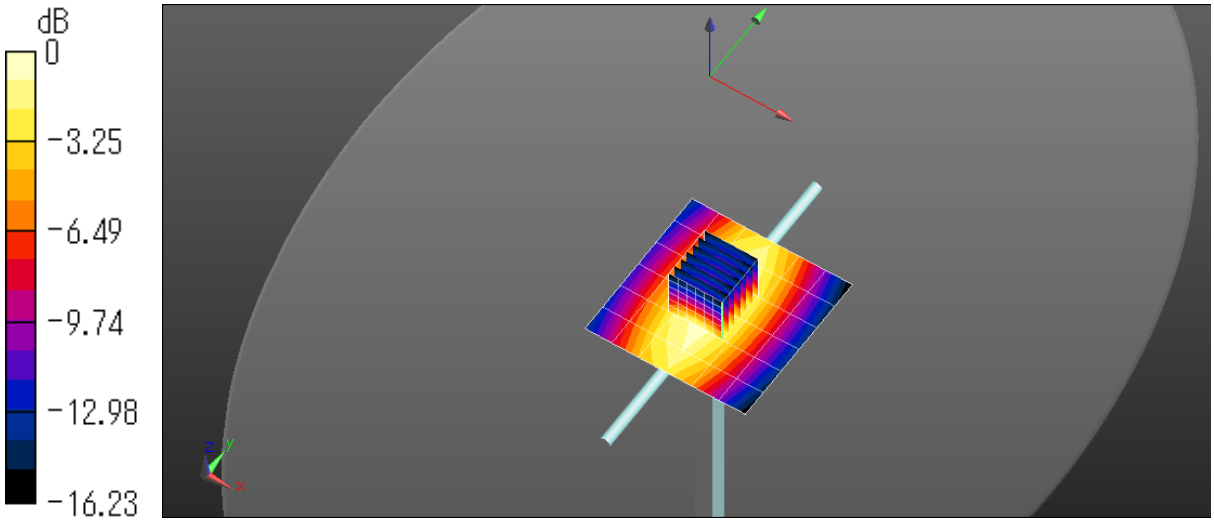
Room Temp_22.5 deg.C._Liquid Temp_22.5 deg.C

Frequency: 750 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.869 S/m; ε_r = 40.461; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn1372; Calibrated: 2023/03/16
- Probe: EX3DV4 - SN3825; ConvF(9.83, 9.83, 9.83) @ 750 MHz; Calibrated: 2022/07/20
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.85 W/kg

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 60.18 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.33 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.42 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 = 65.1%
Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

E.3.3 Date/Time: 2023-06-20 10:38:06

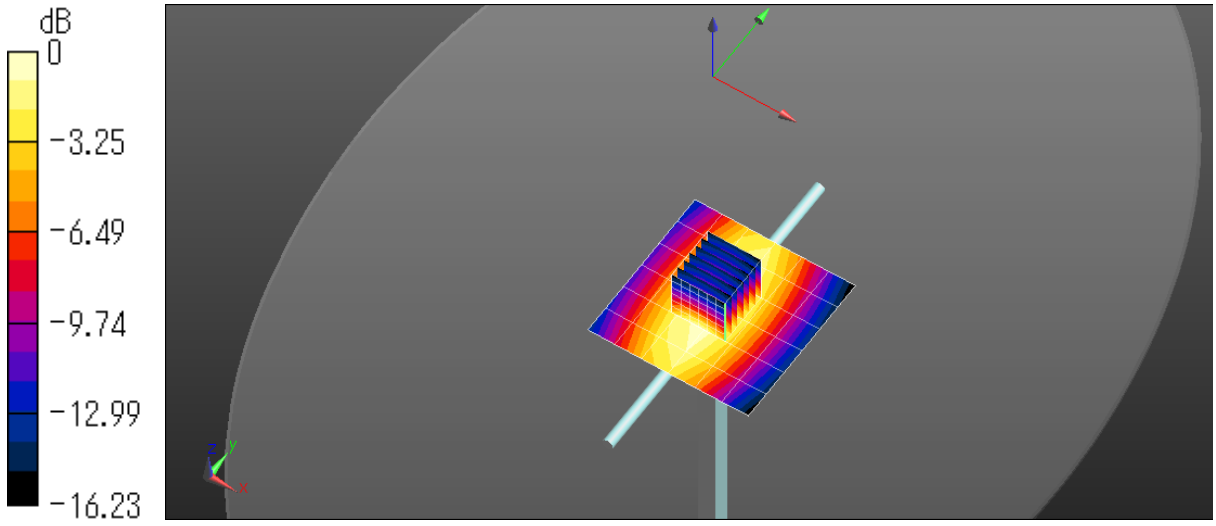
Room Temp_22.5 deg.C._Liquid Temp_22.5 deg.C

Frequency: 750 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.87 S/m; ε_r = 40.175; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn509; Calibrated: 2022/07/13
- Probe: EX3DV4 - SN3825; ConvF(9.83, 9.83, 9.83) @ 750 MHz; Calibrated: 2022/07/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.88 W/kg

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 59.85 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.22 W/kg
SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.4 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 = 66%
Maximum value of SAR (measured) = 2.84 W/kg



0 dB = 2.88 W/kg = 4.60 dBW/kg

E.3.4 Date/Time: 2023-06-26 8:42:18

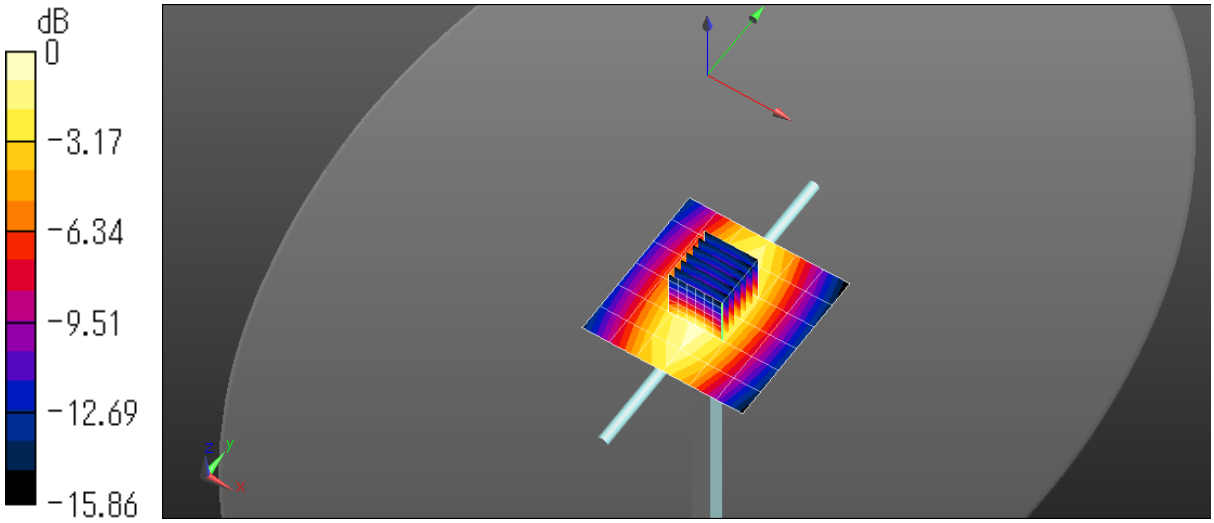
Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C

Frequency: 750 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.895 S/m; ε_r = 40.683; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn554; Calibrated: 2023/04/14
- Probe: EX3DV4 - SN3745; ConvF(9.4, 9.4, 9.4) @ 750 MHz; Calibrated: 2023/04/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.73 W/kg

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 58.66 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.07 W/kg
SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.37 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 = 67.3%
Maximum value of SAR (measured) = 2.76 W/kg



0 dB = 2.73 W/kg = 4.37 dBW/kg

E.3.5 Date/Time: 2023-07-08 13:34:56

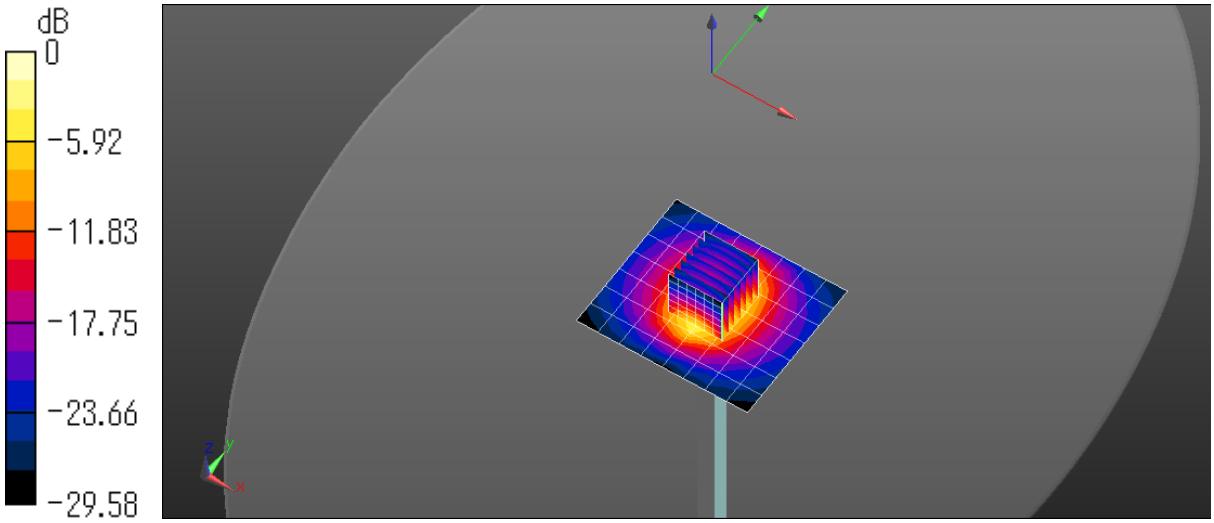
Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C

Frequency: 2450 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.764 S/m; ε_r = 38.526; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn554; Calibrated: 2023/04/14
- Probe: EX3DV4 - SN3745; ConvF(6.89, 6.89, 6.89) @ 2450 MHz; Calibrated: 2023/04/18
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/250mW/Area Scan (9x8x1): Measurement grid: dx=12 mm, dy=12 mm
Maximum value of SAR (measured) = 20.6 W/kg

Pin/250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 113.3 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 26.0 W/kg
SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.96 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 49.3 %
Maximum value of SAR (measured) = 21.0 W/kg



0 dB = 20.6 W/kg = 13.15 dBW/kg

E.3.6 Date/Time: 2023-07-08 15:18:32

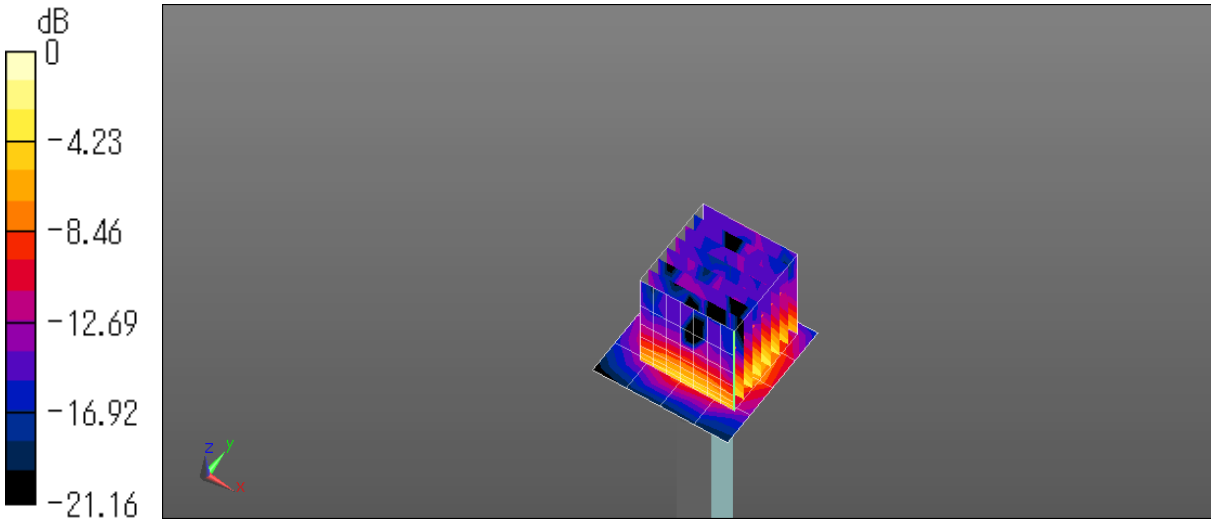
Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C

Frequency: 5600 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.857 S/m; ε_r = 36.036; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn554; Calibrated: 2023/04/14
- Probe: EX3DV4 - SN3745; ConvF(4.33, 4.33, 4.33) @ 5600 MHz; Calibrated: 2023/04/18
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/100mW/Area Scan (5x5x1): Measurement grid: dx=10 mm, dy=10 mm
Maximum value of SAR (measured) = 18.7 W/kg

Configuration/100mW/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4 mm, dy=4 mm, dz=1.4 mm
Reference Value = 68.71 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 36.4 W/kg
SAR(1 g) = 8.57 W/kg; SAR(10 g) = 2.4 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 64 %
Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 18.7 W/kg = 12.71 dBW/kg

E.3.7 Date/Time: 2023-07-14 14:12:34

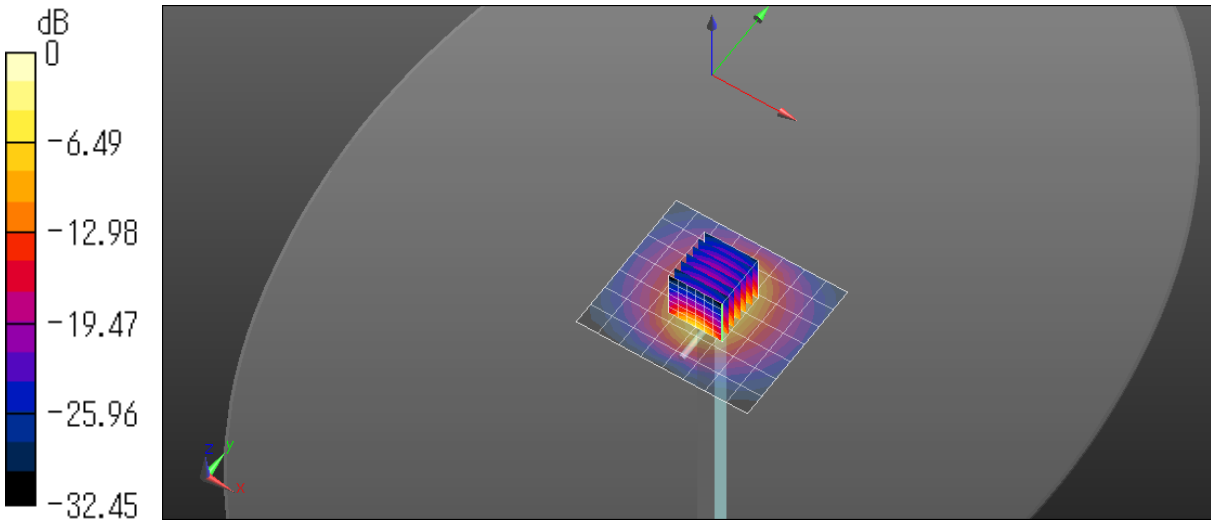
Room Temp_24.0 deg.C._Liquid Temp_23.5 deg.C

Frequency: 2450 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.765 S/m; ε_r = 38.677; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn554; Calibrated: 2023/04/14
- Probe: EX3DV4 - SN3745; ConvF(6.89, 6.89, 6.89) @ 2450 MHz; Calibrated: 2023/04/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/250mW/Area Scan (9x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 23.6 W/kg

Pin/250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 118.0 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 28.4 W/kg
SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.43 W/kg
Smallest distance from peaks to all points 3 dB below = 8.9 mm
Ratio of SAR at M2 to SAR at M1 = 49%
Maximum value of SAR (measured) = 22.8 W/kg



0 dB = 23.6 W/kg = 13.73 dBW/kg

E.3.8 Date/Time: 2023-07-17 9:24:50

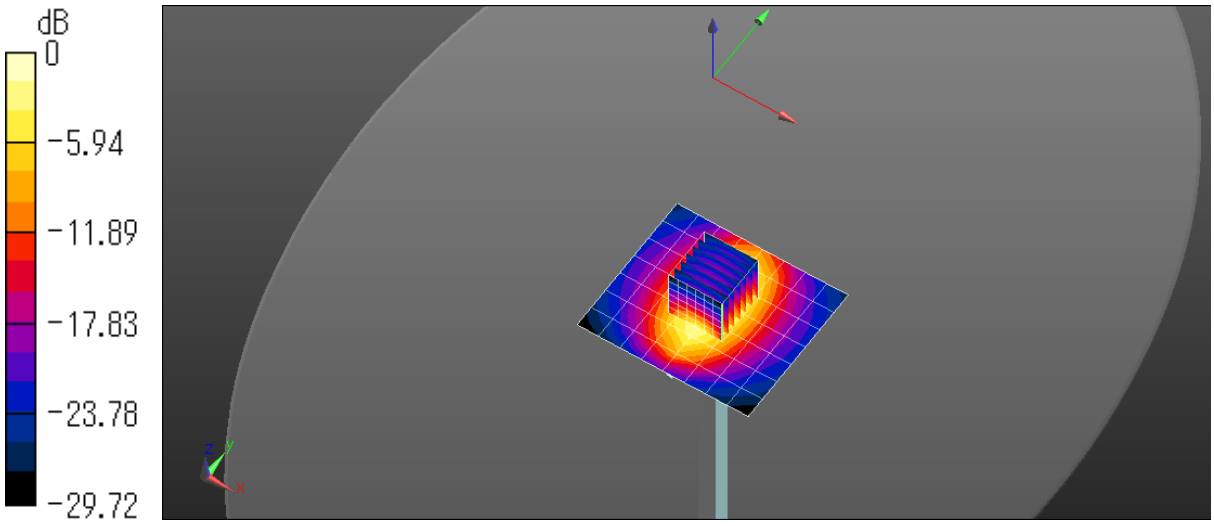
Room Temp_23.0 deg.C._Liquid Temp_22.5 deg.C

Frequency: 1750 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.317 S/m; ε_r = 40.424; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn554; Calibrated: 2023/04/14
- Probe: EX3DV4 - SN3745; ConvF(7.67, 7.67, 7.67) @ 1750 MHz; Calibrated: 2023/04/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin 2/250mW/Area Scan (9x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 13.4 W/kg

Pin 2/250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 105.2 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 8.76 W/kg; SAR(10 g) = 4.64 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.4%
Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.4 W/kg = 11.27 dBW/kg

E.3.9 Date/Time: 2023-07-17 8:26:10

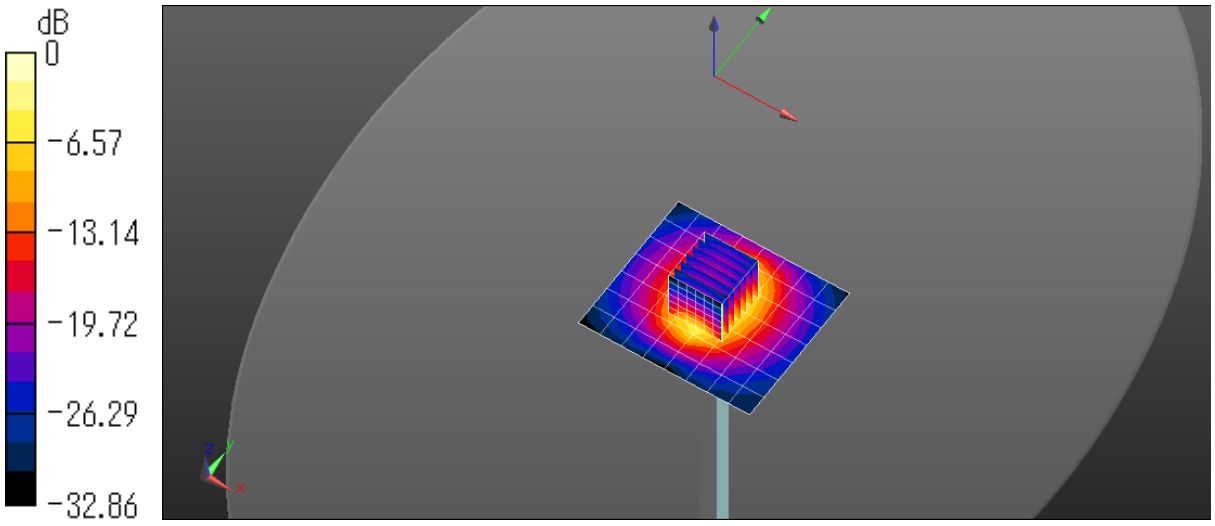
Room Temp 23.0 deg.C._Liquid Temp 22.5 deg.C

Frequency: 2450 MHz; Communication System Channel Number: 0; Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.797 S/m; ε_r = 39.455; ρ = 1000 kg/m^3

DASY5 Configuration:
- Electronics: DAE4 Sn554; Calibrated: 2023/04/14
- Probe: EX3DV4 - SN3745; ConvF(6.89, 6.89, 6.89) @ 2450 MHz; Calibrated: 2023/04/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI v4.0 (20deg probe tilt); Phantom section: Flat Section ; Type: QDOVA001BB
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin/250mW/Area Scan (9x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 23.7 W/kg

Pin/250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 116.8 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 28.5 W/kg
SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.48 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 48.9%
Maximum value of SAR (measured) = 23.1 W/kg



0 dB = 23.7 W/kg = 13.74 dBW/kg