



Appendix B. System Performance Check

Tissue Calibration Result :

6.1.3

Frequency (MHz)	Liquid Temp	Measured Values (W/kg)		Target Values (W/kg)		Deviation[%]		Limit	Measured. Date
		σ	ϵ_r (e')	σ	ϵ_r (e')	1g	10g	%	
2450	23.1	1.865	41.059	1.8	39.2	3.61%	4.74%	±5%	2022/7/7
2403.35	23.1	1.82	41.053	1.8	39.2	1.28%	4.73%	±5%	2022/7/7
2441.35	23.1	1.86	41.06	1.8	39.2	3.22%	4.74%	±5%	2022/7/7
2477.35	23.1	1.88	41.02	1.8	39.2	4.44%	4.65%	±5%	2022/7/7

Result of System Performance Check :

6.1.7

Frequency (MHz)	Dipole S/N	Measured SAR Values (W/kg)		Target SAR Values (W/kg)		Deviation[%]		Limit	Measured. Date
		1g	10g	1g	10g	1g	10g	%	
2450	914	13.6	6.34	13	5.92	4.62%	7.09%	±10%	2022/7/7



System Check_Head_2450MHz

Date: 2022/7/7

DUT: Dipole D2450V2 - SN:914

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 2450$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 41.059$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7375; ConvF(7.52, 7.52, 7.52) @ 2450 MHz; Calibrated: 2021/12/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn528; Calibrated: 2022/5/19
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2450MHz/Area Scan (81x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 23.1 W/kg

2450MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 111.0 V/m; Power Drift = 0.11 dB

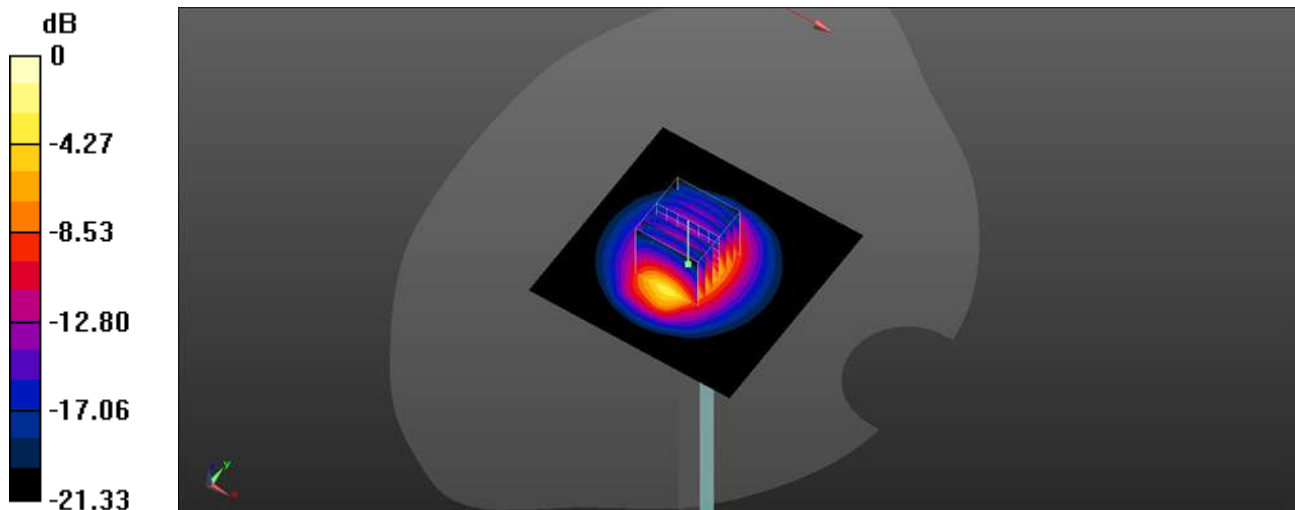
Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.34 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 22.7 W/kg



**Appendix C. Measured Conducted Power****SRD:**

<FCC>

Power Set	Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)	
				Average	Tune-up
Default Power	PI/4 DQPSK	1	2403.35	4.21	4.5
Default Power		20	2441.35	3.79	4
Default Power		38	2477.35	3.04	3.5

**Appendix D. SAR Measurement Data**

Headset

FCC

Plot.No	Band	Mode	Channel	Frequency (MHz)	Test Position	Gap (mm)	Antenna	Power Setting	Avg Power (dBm)	Tune-up (dBm)	SAR 1g (W/Kg)	Reported SAR 1 g (W/Kg)
2	SRD	PI/4 DQPSK	1	2403.35	Left Cheek	0	Ant 1	Default	4.21	4.5	0.00906	0.01
	SRD	PI/4 DQPSK	20	2441.35	Left Cheek	0	Ant 1	Default	3.79	4	0.00892	0.01
	SRD	PI/4 DQPSK	38	2477.35	Left Cheek	0	Ant 1	Default	3.04	3.5	0.00895	0.01
	SRD	PI/4 DQPSK	1	2403.35	Left Cheek	0	Ant 2	Default	4.21	4.5	0.00501	0.01



02 SRD_ PI/4 DQPSK CH1_Left Cheek Ant 1

Date: 2022/7/7

Communication System: SRD ; Frequency: 2403.35 MHz; Duty Cycle: 1:1

Medium parameters used : $f = 2403.35$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 41.052$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7375; ConvF(7.52, 7.52, 7.52) @ 2403.35 MHz; Calibrated: 2021/12/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn528; Calibrated: 2022/5/19
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch1/Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0149 W/kg

Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.675 V/m; Power Drift = -0.11 dB

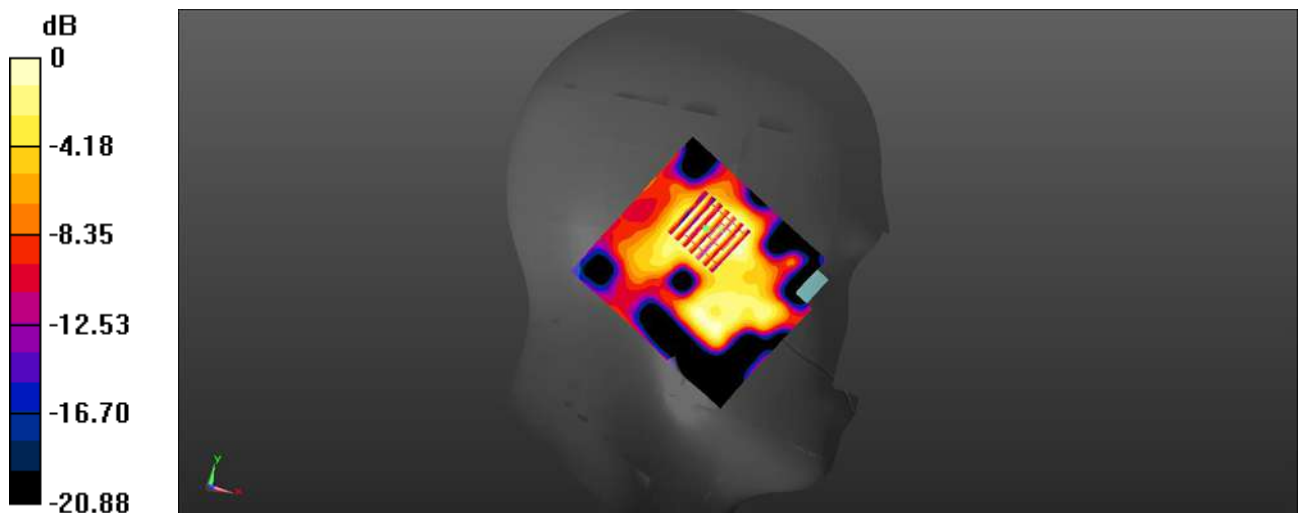
Peak SAR (extrapolated) = 0.0170 W/kg

SAR(1 g) = 0.00906 W/kg; SAR(10 g) = 0.00501 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 = 58.7%

Maximum value of SAR (measured) = 0.0127 W/kg



0 dB = 0.0127 W/kg = -18.96 dBW/kg