

## APPENDIX B: VERIFICATION PLOTS

## cDASY6 Module WPT Measurement Report

### Device under test

Model / Manufacturer:  
SPEAG V-COIL50/400

Serial number:  
1012

Dimensions:  
125mm x 250mm x 35mm

Measurement scenario:  
400kHz verification

### Hardware setup

DASY version:  
cDASY6 Module WPT, 1.20.8

Notebook version:  
1.2.5

Probe model / serial number:  
Single Probe with reference / WP000100

### Scan setup

Type:  
Static

Resolution:  
X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Dimensions:  
X: 70.00 mm, Y: 70.00 mm, Z: 42.00 mm

Completed on:  
2022/05/12 23:09:50

### Measurement results

Maximum H-field:  
170.82 A/m (rms)

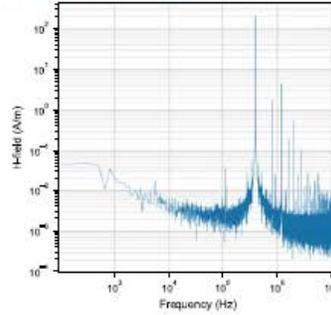
Location of maximum relative to DUT:  
X: 0.00 m, Y: 0.00 m, Z: 7.00 mm

Maximum H-field (x, y, z):  
142.24 A/m, 145.13 A/m, 241.09 A/m

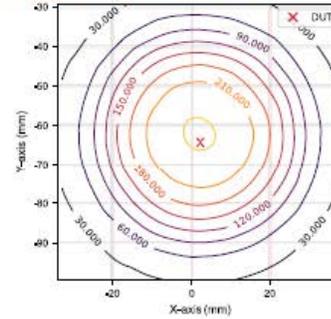
Peak frequency:  
400.00 kHz (median)

Distance to -20.0 dB boundary:  
39.60 mm

### H-field magnitude at maximum



### H-field magnitude at lowest plane



### Induced quantities in the anatomical model (f = 400.00 kHz, $\sigma = 0.355$ S/m, reconstruction error = 7.9%)

Spading (mm)	Peak Hinc (A/m, rms)	Peak Eind (V/m, rms)		Line avg	Peak Jind (A/m <sup>2</sup> , rms)		psSAR (mW/kg)		-20 dB radius (mm)
		Cube avg	Line avg		Surface avg	1g avg	10g avg		
0 *	306	5.84	5.98	1.76	6.20	3.96	37.5		
2.00 *	267	5.04	5.18	1.50	4.52	2.93	37.5		
10.0 *	137	2.61	2.66	0.812	1.60	0.895	38.9		

### Standard compliance evaluation

Spading (mm)	ICNIRP 2020 (dB)			ICNIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Jind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)
0 *	28.4	-19.2	-27.0	45.0	6.97	-27.0	11.0	-22.8	-27.0	45.6	-19.2	-24.1	45.0	-19.2	-24.1
2.00 *	27.3	-20.5	-28.3	43.8	5.58	-28.3	9.84	-24.1	-28.3	44.5	-20.5	-25.5	43.8	-20.5	-25.5
10.0 *	21.4	-25.2	-33.5	38.0	0.242	-33.5	4.02	-29.8	-33.5	38.6	-26.2	-30.0	38.0	-26.2	-30.0

### Standard compliance evaluation (coverage factor-adjusted) (Coefficients: $w_{E1} = 3.0$ , $w_{E2} = 2.0$ , $w_J = 1.0$ , $w_{SAR1g} = 1.0$ , $w_{SAR10g} = 1.0$ )

Spading (mm)	ICNIRP 2020 (dB)			ICNIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Peak Einc (BR)	psSAR (BR)	Peak Einc (BR)	Peak Jind (BR)	psSAR (BR)	Peak Einc (BR)	psSAR (BR)	Peak Einc (BR)	psSAR (BR)	Peak Einc (BR)	psSAR (BR)	Peak Einc (BR)	psSAR (BR)	Peak Einc (BR)	psSAR (BR)
0 *	-12.2	-28.3	4.47	-28.3	-19.3	-28.3	-12.2	-25.3	-12.2	-25.3	-12.2	-25.3	-12.2	-25.3	
2.00 *	-13.4	-29.6	3.08	-29.6	-20.5	-29.6	-13.4	-26.7	-13.4	-26.7	-13.4	-26.7	-13.4	-26.7	
10.0 *	-18.8	-34.5	-1.93	-34.5	-26.0	-34.5	-18.8	-31.1	-18.8	-31.1	-18.8	-31.1	-18.8	-31.1	

# ELEMENT

**DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1191**

Communication System: UID: 0, CW; Frequency: 5800.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5800.0 MHz; cond = 6.17 S/m; perm = 47.7; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 06/24/2022; Ambient Temp: 22.3<sup>0</sup>C; Tissue Temp: 21.3<sup>0</sup>C

Probe: EX3DV4 - SN7659; ConvF:(4.67,4.67,4.67); Calibrated: 2022-04-20  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1407; Calibrated: 2022-04-13  
Phantom: Twin-SAM V5.0; Serial: 1873  
Measurement SW: DASY Module SAR V16.0.2.136

## 5800 MHz System Verification at 17 dBm (50 mW)

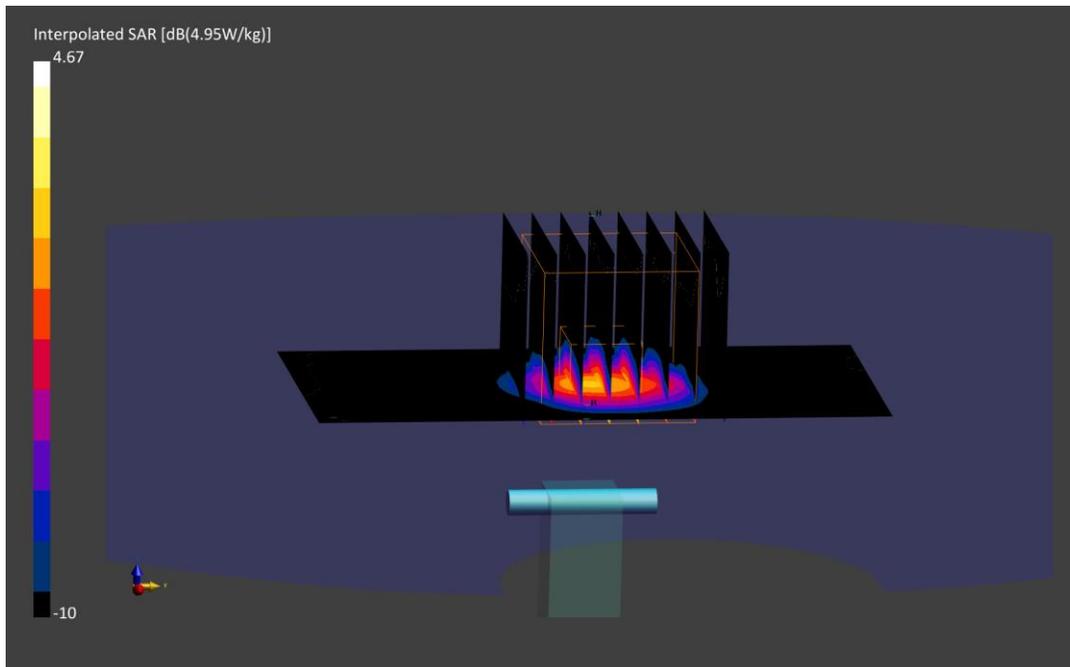
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.5 W/kg

**SAR(1 g) = 3.44 W/kg; SAR(10 g) = 0.966 W/kg**

Deviation (1 g) = -6.39%; Deviation (10 g) = -4.36%;



# Element

Date: 06/22/2022

Measurement Group

## 10 GHz System Verification

DUT	Serial Number
10 GHz Verification Source	1004

## Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	10.00	validation band	10000.0

## Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmWV3 - SN9407_F1-55GHz, 2021-12-13	DAE4ip Sn1639, 2022-01-21

## Software Setup

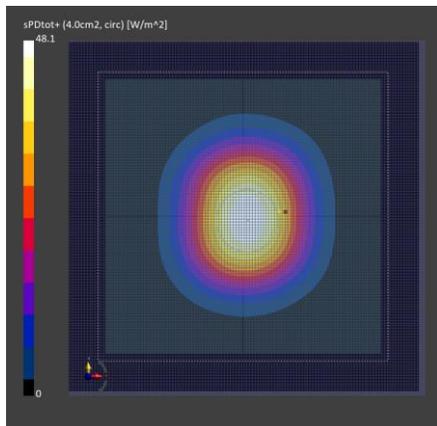
Software	Software Version
cDasy6 Module mmWave	3.0.0.841

## Scans Setup

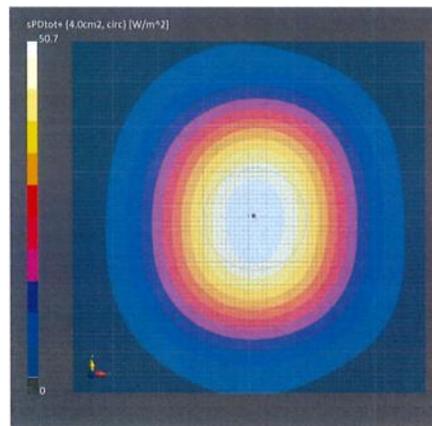
Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	48.1
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	47.8
E <sub>peak</sub> [V/m]	143
Power Drift [dB]	0.03



30GHz System Verification



Calibration Certificate