

<Hotspot Exposure condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	BT		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Front Face at 10mm	0.34	0.09	0.16	0.03	0.44	0.54
	Rear Face at 10mm	0.18	0.31	0.11	0.03	0.50	0.32
	Left Side at 10mm		0.28	0.21	0.03	0.28	0.23
	Right Side at 10mm	0.02				0.02	0.02
	Top Side at 10mm	0.13	0.04	0.17	0.00	0.17	0.30
	Front Face at 21mm	0.08	0.11	0.16	0.01	0.19	0.26
	Rear Face at 14mm	0.11	0.16	0.07	0.01	0.27	0.19
	Top Side at 13mm	0.04	0.04	0.09	0.00	0.07	0.12
GSM1900	Front Face at 10mm	0.30	0.09	0.16	0.03	0.39	0.50
	Rear Face at 10mm	0.19	0.31	0.11	0.03	0.50	0.32
	Left Side at 10mm		0.28	0.21	0.03	0.28	0.23
	Right Side at 10mm	0.04				0.04	0.04
	Top Side at 10mm	0.21	0.04	0.17	0.00	0.25	0.39
	Front Face at 21mm	0.08	0.11	0.16	0.01	0.19	0.26
	Rear Face at 14mm	0.10	0.16	0.07	0.01	0.25	0.18
	Top Side at 13mm	0.08	0.04	0.09	0.00	0.12	0.17
LTE Band 2	Front Face at 10mm	0.15	0.09	0.16	0.03	0.24	0.34
	Rear Face at 10mm	0.11	0.31	0.11	0.03	0.42	0.25
	Left Side at 10mm		0.28	0.21	0.03	0.28	0.23
	Right Side at 10mm	0.21				0.21	0.21
	Top Side at 10mm	0.12	0.04	0.17	0.00	0.16	0.29
	Front Face at 21mm	0.30	0.11	0.16	0.01	0.41	0.47
	Rear Face at 14mm	0.63	0.16	0.07	0.01	0.79	0.71
	Top Side at 13mm	0.25	0.04	0.09	0.00	0.28	0.33
LTE Band 4	Front Face at 10mm	0.22	0.09	0.16	0.03	0.31	0.42
	Rear Face at 10mm	0.20	0.31	0.11	0.03	0.51	0.34
	Left Side at 10mm		0.28	0.21	0.03	0.28	0.23
	Right Side at 10mm	0.36				0.36	0.36
	Top Side at 10mm	0.10	0.04	0.17	0.00	0.15	0.28
	Front Face at 21mm	0.23	0.11	0.16	0.01	0.34	0.40
	Rear Face at 14mm	0.61	0.16	0.07	0.01	0.76	0.69
	Top Side at 13mm	0.12	0.04	0.09	0.00	0.16	0.21
LTE Band 5	Front Face at 10mm	0.34	0.09	0.16	0.03	0.43	0.53
	Rear Face at 10mm	0.18	0.31	0.11	0.03	0.50	0.32
	Left Side at 10mm		0.28	0.21	0.03	0.28	0.23
	Right Side at 10mm	0.12				0.12	0.12
	Top Side at 10mm	0.15	0.04	0.17	0.00	0.19	0.32
	Front Face at 21mm	0.22	0.11	0.16	0.01	0.34	0.40
	Rear Face at 14mm	0.45	0.16	0.07	0.01	0.61	0.53
	Top Side at 13mm	0.11	0.04	0.09	0.00	0.14	0.19

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	BT		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
LTE Band 7	Front Face at 10mm	0.43	0.09	0.16	0.03	0.52	0.62
	Rear Face at 10mm	0.18	0.31	0.11	0.03	0.49	0.31
	Left Side at 10mm		0.28	0.21	0.03	0.28	0.23
	Right Side at 10mm	0.59				0.59	0.59
	Top Side at 10mm	0.46	0.04	0.17	0.00	0.50	0.63
	Front Face at 21mm	1.06	0.11	0.16	0.01	1.17	1.24
	Rear Face at 14mm	0.87	0.16	0.07	0.01	1.03	0.95
	Top Side at 13mm	1.13	0.04	0.09	0.00	1.17	1.21
LTE Band 41/38	Front Face at 10mm	0.43	0.09	0.16	0.03	0.52	0.62
	Rear Face at 10mm	0.15	0.31	0.11	0.03	0.46	0.28
	Left Side at 10mm		0.28	0.21	0.03	0.28	0.23
	Right Side at 10mm	0.21				0.21	0.21
	Top Side at 10mm	0.53	0.04	0.17	0.00	0.57	0.70
	Front Face at 21mm	0.33	0.11	0.16	0.01	0.44	0.51
	Rear Face at 14mm	0.32	0.16	0.07	0.01	0.48	0.40
	Top Side at 13mm	0.33	0.04	0.09	0.00	0.36	0.41

<Body Worn Exposure condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	BT		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Front Face at 10mm	0.34	0.09	0.16	0.03	0.44	0.54
	Rear Face at 10mm	0.18	0.31	0.11	0.03	0.50	0.32
	Front Face at 21mm	0.08	0.11	0.16	0.01	0.19	0.26
	Rear Face at 14mm	0.11	0.16	0.07	0.01	0.27	0.19
GSM1900	Front Face at 10mm	0.30	0.09	0.16	0.03	0.39	0.50
	Rear Face at 10mm	0.19	0.31	0.11	0.03	0.50	0.32
	Front Face at 21mm	0.08	0.11	0.16	0.01	0.19	0.26
	Rear Face at 14mm	0.10	0.16	0.07	0.01	0.25	0.18
LTE Band 2	Front Face at 10mm	0.15	0.09	0.16	0.03	0.24	0.34
	Rear Face at 10mm	0.11	0.31	0.11	0.03	0.42	0.25
	Front Face at 21mm	0.30	0.11	0.16	0.01	0.41	0.47
	Rear Face at 14mm	0.63	0.16	0.07	0.01	0.79	0.71
LTE Band 4	Front Face at 10mm	0.22	0.09	0.16	0.03	0.31	0.42
	Rear Face at 10mm	0.20	0.31	0.11	0.03	0.51	0.34
	Front Face at 21mm	0.23	0.11	0.16	0.01	0.34	0.40
	Rear Face at 14mm	0.61	0.16	0.07	0.01	0.76	0.69

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	BT		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
LTE Band 5	Front Face at 10mm	0.34	0.09	0.16	0.03	0.43	0.53
	Rear Face at 10mm	0.18	0.31	0.11	0.03	0.50	0.32
	Front Face at 21mm	0.22	0.11	0.16	0.01	0.34	0.40
	Rear Face at 14mm	0.45	0.16	0.07	0.01	0.61	0.53
LTE Band 7	Front Face at 10mm	0.43	0.09	0.16	0.03	0.52	0.62
	Rear Face at 10mm	0.18	0.31	0.11	0.03	0.49	0.31
	Front Face at 21mm	1.06	0.11	0.16	0.01	1.17	1.24
	Rear Face at 14mm	0.87	0.16	0.07	0.01	1.03	0.95
LTE Band 41/38	Front Face at 10mm	0.43	0.09	0.16	0.03	0.52	0.62
	Rear Face at 10mm	0.15	0.31	0.11	0.03	0.46	0.28
	Front Face at 21mm	0.33	0.11	0.16	0.01	0.44	0.51
	Rear Face at 14mm	0.32	0.16	0.07	0.01	0.48	0.40

< Extremity Exposure condition >

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 10g SAR (W/kg)	1+3+4 Summed 10g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	BT		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
GSM850	Front Face at 0mm			0.41		0.00	0.41
	Rear Face at 0mm	0.57		0.14		0.57	0.71
	Left Side at 0mm			0.44		0.00	0.44
	Right Side at 0mm					0.00	0.00
	Top Side at 0mm			0.23		0.00	0.23
LTE Band 7	Front Face at 0mm	0.35		0.41		0.35	0.76
	Rear Face at 0mm	0.33		0.14		0.33	0.47
	Left Side at 0mm			0.44		0.00	0.44
	Right Side at 0mm					0.00	0.00
	Top Side at 0mm	0.40		0.23		0.40	0.63
LTE Band 41/38	Front Face at 0mm	0.39		0.41		0.39	0.80
	Rear Face at 0mm			0.14		0.00	0.14
	Left Side at 0mm			0.44		0.00	0.44
	Right Side at 0mm					0.00	0.00
	Top Side at 0mm	0.45		0.23		0.45	0.68

Test Engineer : Yuyu Lu, and Dennis Ye

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D835V2	4d139	Aug. 28, 2020	1 Year
System Validation Dipole	SPEAG	D1750V2	1071	Aug. 29, 2020	1 Year
System Validation Dipole	SPEAG	D1900V2	5d159	Aug. 27, 2020	1 Year
System Validation Dipole	SPEAG	D2450V2	893	Aug. 27, 2020	1 Year
System Validation Dipole	SPEAG	D2600V2	1110	Aug. 29, 2020	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1133	Aug. 20, 2020	1 Year
Dielectric Probe Kit	SPEAG	DAK-3.5	1076	Aug. 19, 2020	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Aug. 27, 2020	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1341	Aug. 26, 2020	1 Year
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 27, 2020	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50260600	Jun. 03, 2020	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214638	Jun. 03, 2020	1 Year
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510355	Jul. 08, 2020	1Year
MXG Analog Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 26, 2020	1 Year
Power Sensor	R&S	NRP-Z21	105007	Oct. 14, 2020	1 Year
Power Meter	ANRITSU	ML2495A	1506002	Feb. 25, 2020	1 Year
Power Sensor	ANRITSU	MA2411B	1339353	Feb. 25, 2020	1 Year
Temp. & Humi. Recorder	CLOCK	HTC-1	157248	Jun. 07, 2020	1 Year
Electronic Thermometer	YONGFA	YF-160A	120100323	Jun. 07, 2020	1 Year
Coupler	Woken	0110A056020-10	COM27RW1A3	Jul. 01, 2020	1 Year

6. Measurement Uncertainty

According to KDB 865664 D01, SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR, and ≥ 3.75 W/kg for 10-g SAR. The procedures described in IEEE Std 1528-2013 should be applied. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. When the highest measured SAR within a frequency band is < 1.5 W/kg for 1-g and < 3.75 W/kg for 10-g, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. Hence, the measurement uncertainty analysis is not required in this SAR report because the test result met the condition.

7. Information on the Testing Laboratories

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas.com

The road map of all our labs can be found in our web site also.

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_HSL835_210108

DUT: Dipole:835 MHz;Type:D835V2

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

Medium: HSL835_0108 Medium parameters used: $f = 835$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 41.721$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.25 W/kg

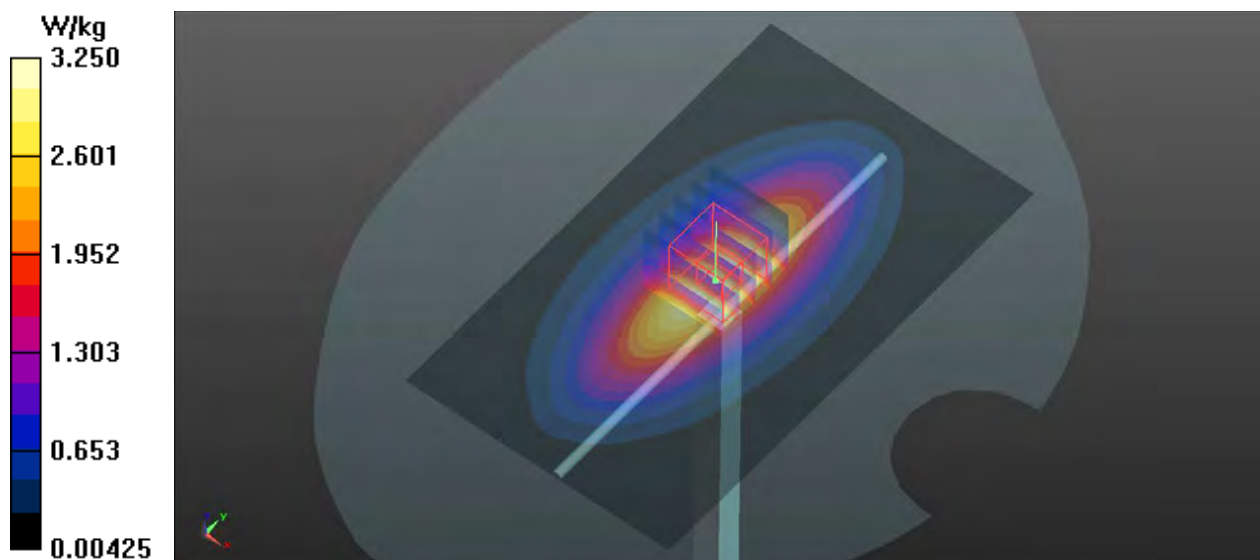
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.43 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 3.28 W/kg



System Check_HSL1750_210109

DUT: Dipole:1750 MHz;Type:D1750V2

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1

Medium: HSL1750_0109 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.349$ S/m; $\epsilon_r = 40.761$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.17, 8.17, 8.17); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.8 W/kg

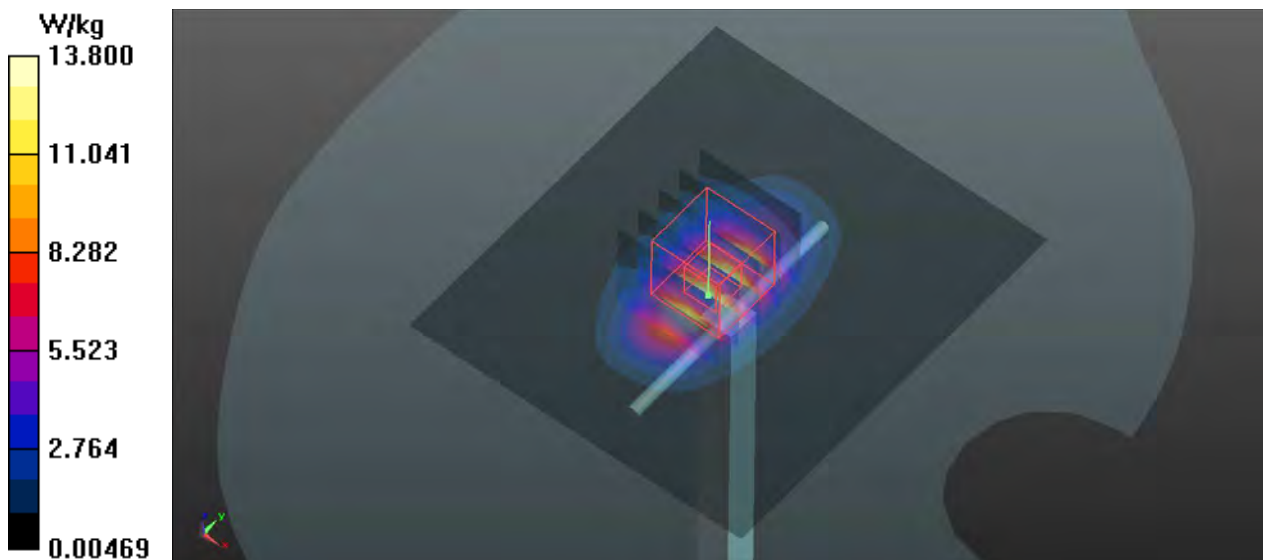
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 100.5 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.31 W/kg; SAR(10 g) = 5.03 W/kg

Maximum value of SAR (measured) = 14.1 W/kg



System Check_HSL1900_210110

DUT: Dipole:1900MHz;Type:D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium: HSL1900_0110 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.43 \text{ S/m}$; $\epsilon_r = 39.76$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6°C ; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.94, 7.94, 7.94); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 15.7 W/kg

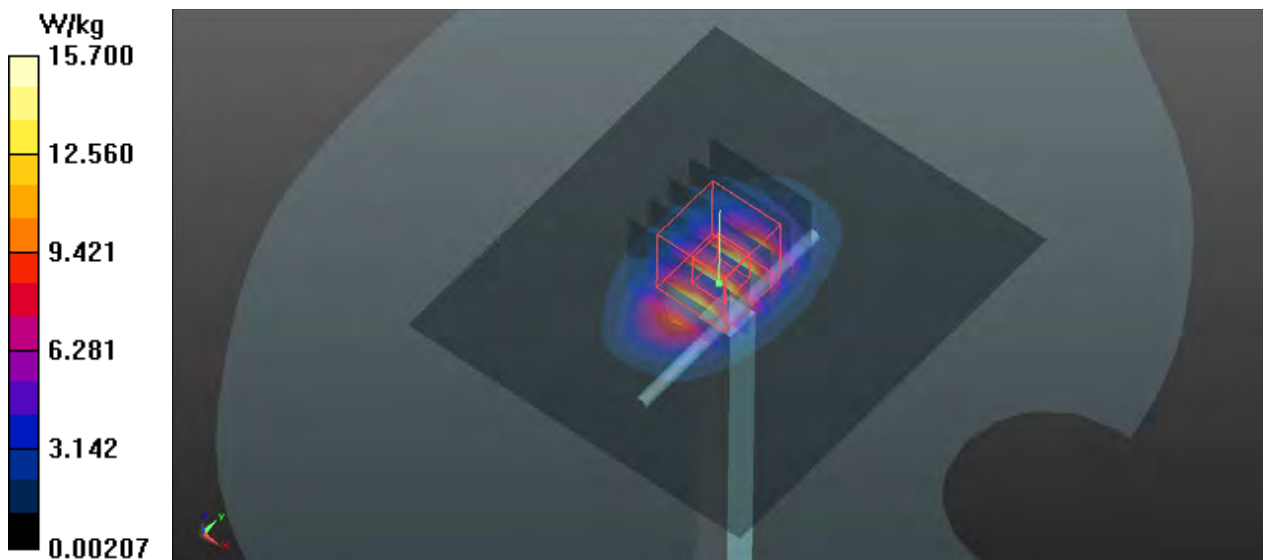
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 100.4 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 19.0 W/kg

SAR(1 g) = 10.4 W/kg ; SAR(10 g) = 5.43 W/kg

Maximum value of SAR (measured) = 16.0 W/kg



System Check_HSL2450_210111

DUT: Dipole:2450 MHz;Type:D2450V2

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium: HSL2450_0111 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.832$ S/m; $\epsilon_r = 38.661$; $\rho = 1000$ kg/m³

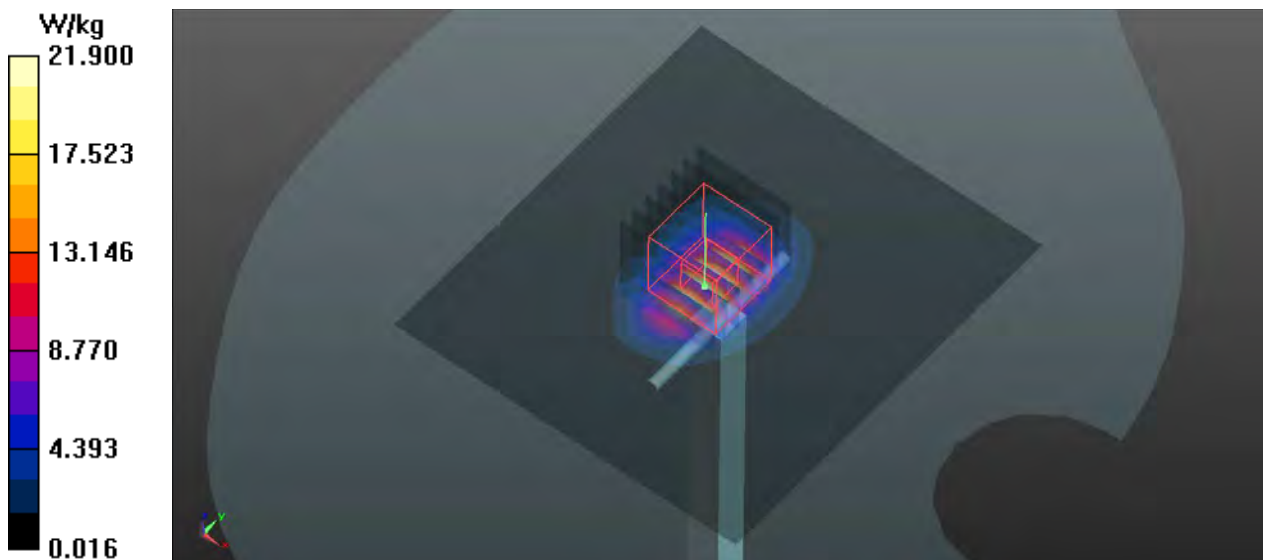
Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.27, 7.27, 7.27); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 21.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 111.5 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 27.0 W/kg
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.16 W/kg
Maximum value of SAR (measured) = 21.7 W/kg



System Check_HSL2600_210112

DUT: Dipole:2600 MHz;Type:D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1

Medium: HSL2600_0112 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.019$ S/m; $\epsilon_r = 38.932$; $\rho = 1000$ kg/m³

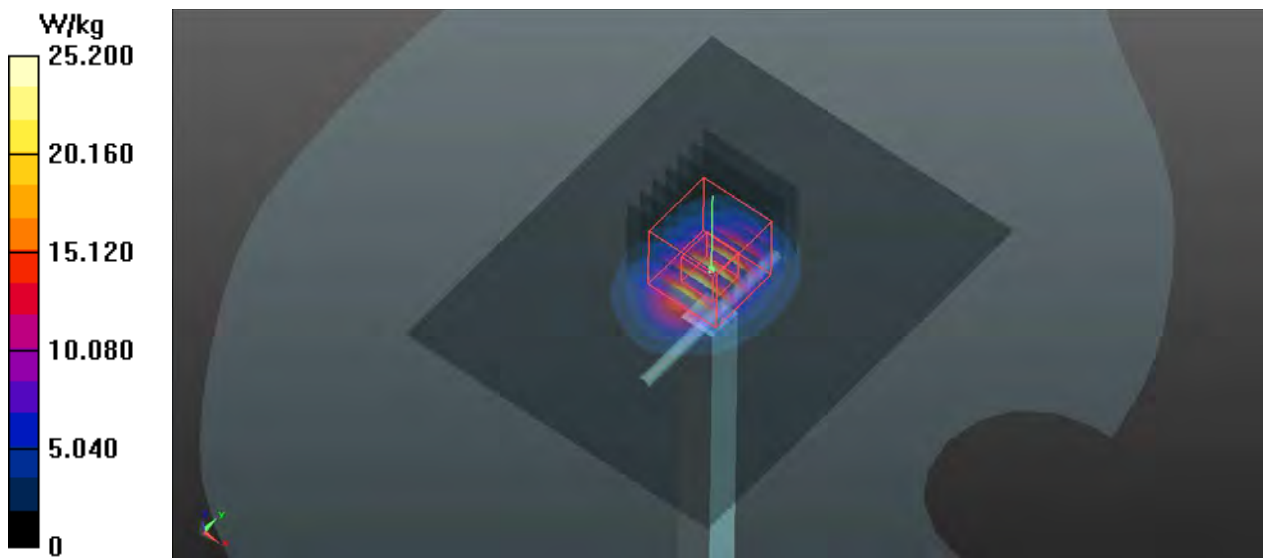
Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 25.2 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 111.5 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 31.5 W/kg
SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.23 W/kg
Maximum value of SAR (measured) = 24.6 W/kg



System Check_HSL2600_210116

DUT: Dipole:2600 MHz;Type:D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1

Medium: HSL2600_0116 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.055$ S/m; $\epsilon_r = 38.321$; $\rho = 1000$ kg/m³

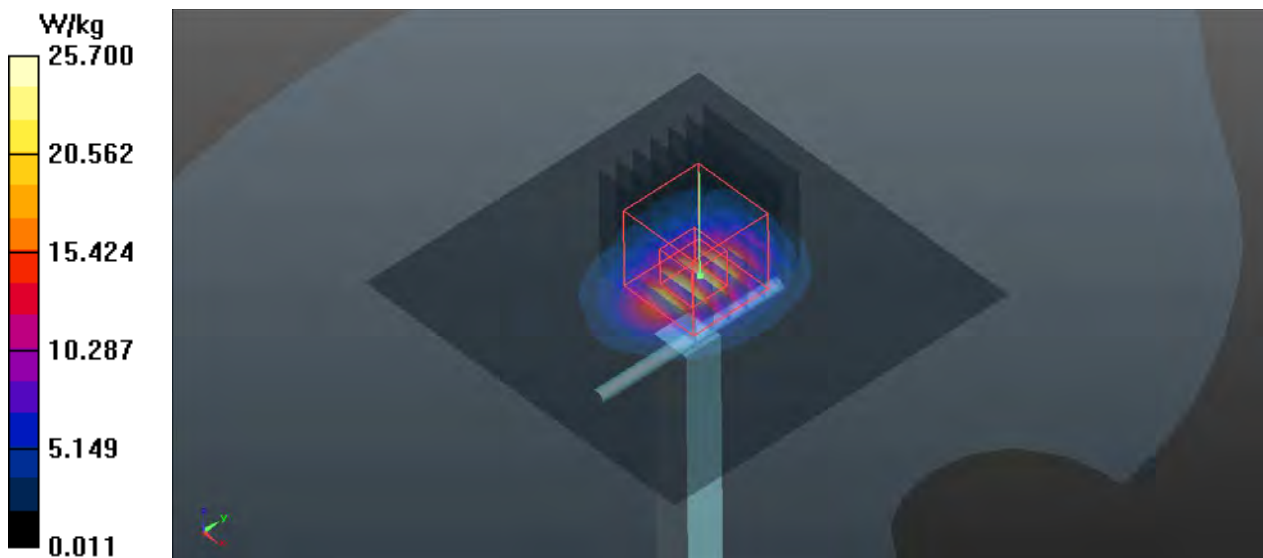
Ambient Temperature : 23.5°C; Liquid Temperature : 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 25.7 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 117.4 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 31.7 W/kg
SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.72 W/kg
Maximum value of SAR (measured) = 25.2 W/kg



System Check_HSL5250_210113

DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1

Medium: HSL5G_0113 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.723$ S/m; $\epsilon_r = 37.284$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.4 W/kg

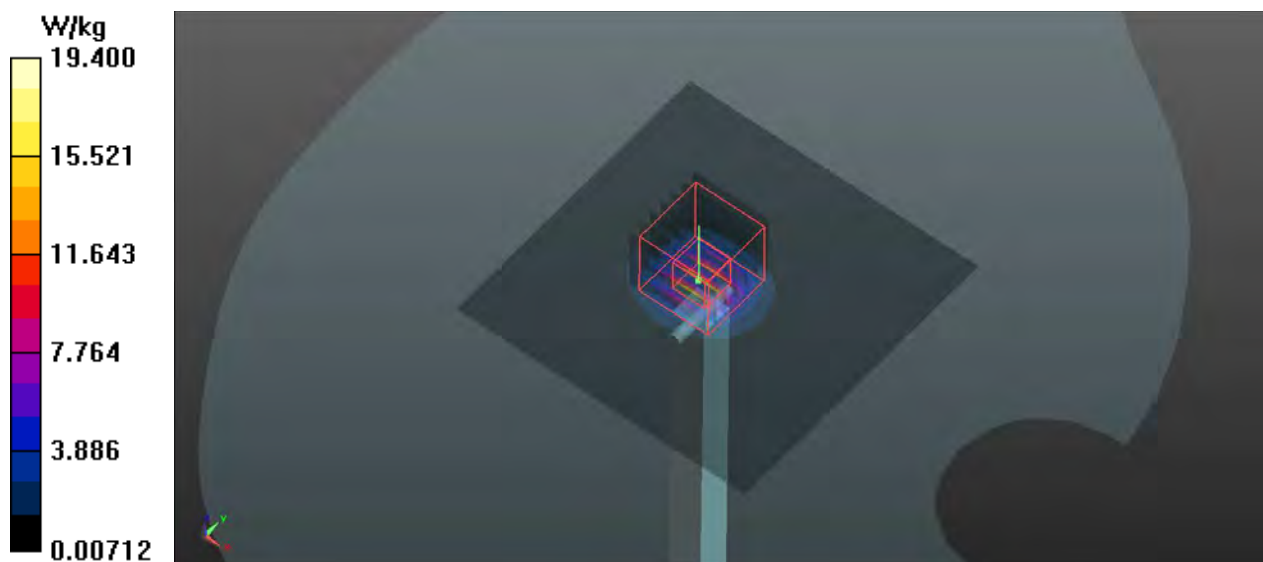
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.19 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 33.9 W/kg

SAR(1 g) = 8.05 W/kg; SAR(10 g) = 2.27 W/kg

Maximum value of SAR (measured) = 20.5 W/kg



System Check_HSL5600_210114

DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1

Medium: HSL5G_0114 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.065$ S/m; $\epsilon_r = 36.806$; $\rho = 1000$ kg/m³

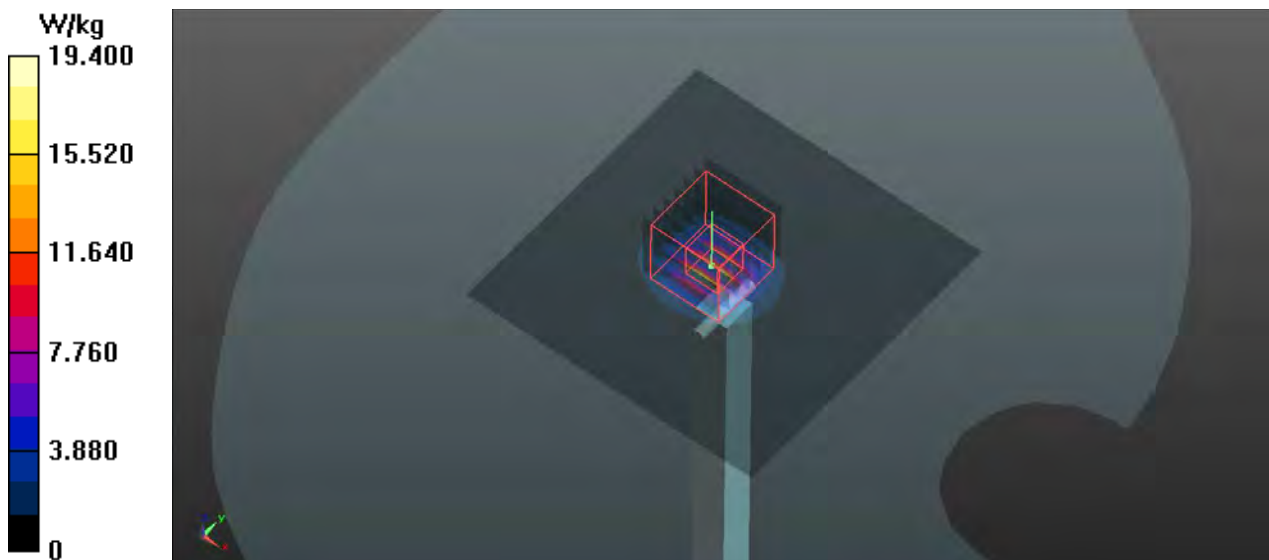
Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.4 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 56.78 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 34.9 W/kg
SAR(1 g) = 7.97 W/kg; SAR(10 g) = 2.23 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



System Check_HSL5800_210115

DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium: HSL5G_0115 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.268$ S/m; $\epsilon_r = 36.541$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 22.0 W/kg

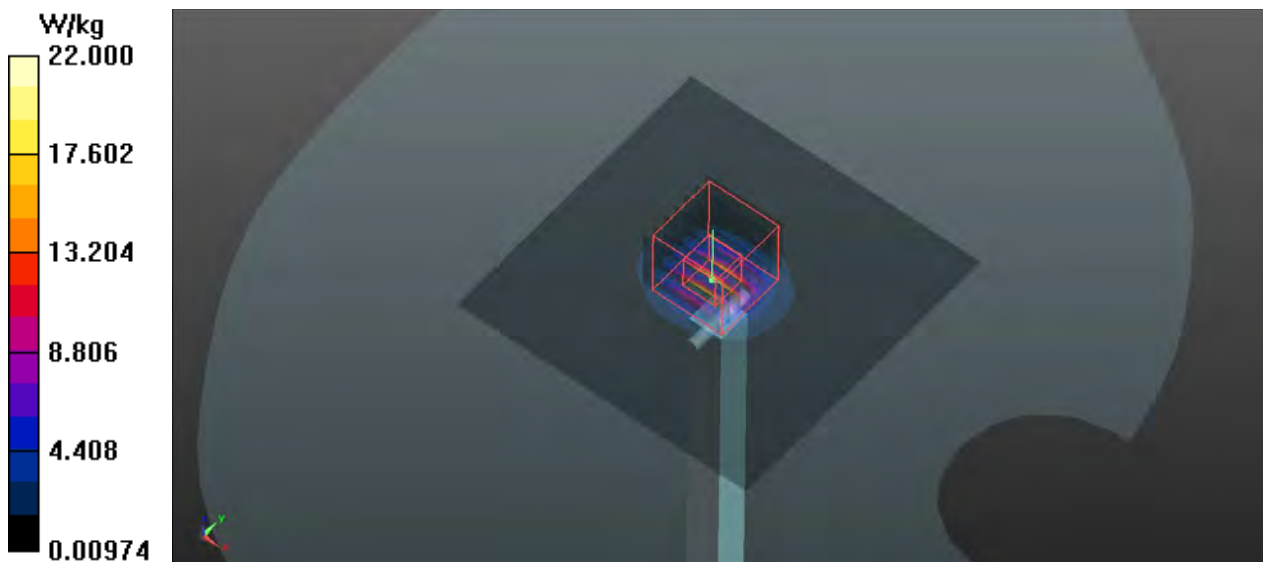
Pin=100mW/Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 62.87 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 38.6 W/kg

SAR(1 g) = 8.69 W/kg; SAR(10 g) = 2.54 W/kg

Maximum value of SAR (measured) = 23.3 W/kg



Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 GSM850_GPRS12_Left Cheek_Ch189

DUT: A20210104W001

Communication System: GPRS12; Frequency: 836.4 MHz; Duty Cycle: 1:2.08

Medium: HSL835_0108 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.709$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (91x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

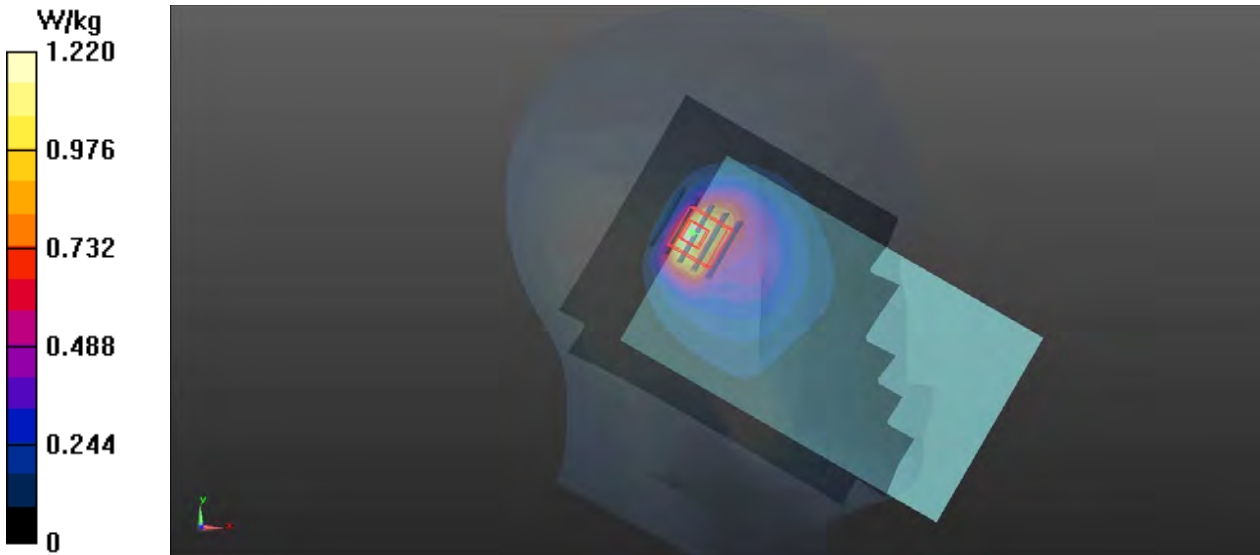
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.15 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.487 W/kg

Maximum value of SAR (measured) = 1.76 W/kg



P02 GSM1900_GPRS12_Left Cheek_Ch512

DUT: A20210104W001

Communication System: GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: HSL1900_0110 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 39.987$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.94, 7.94, 7.94); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.89 W/kg

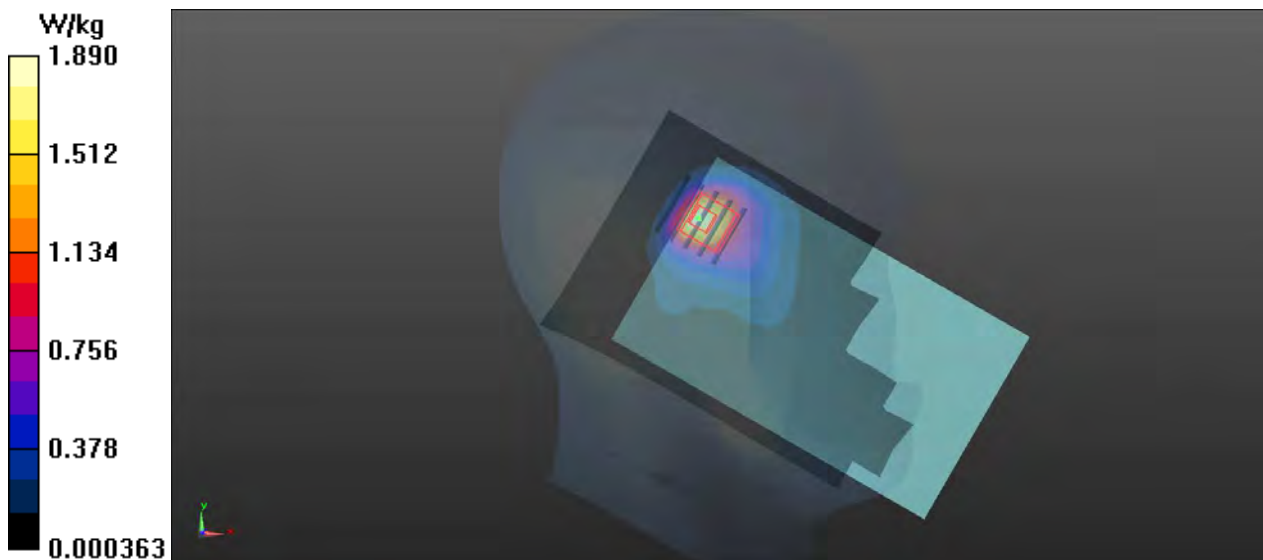
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.60 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 0.984 W/kg; SAR(10 g) = 0.502 W/kg

Maximum value of SAR (measured) = 1.73 W/kg



P03 LTE 2_QPSK20M_Left Cheek_Ch18700_50RB_OS25

DUT: A20210104W001

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_0110 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 39.945$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.94, 7.94, 7.94); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.852 W/kg

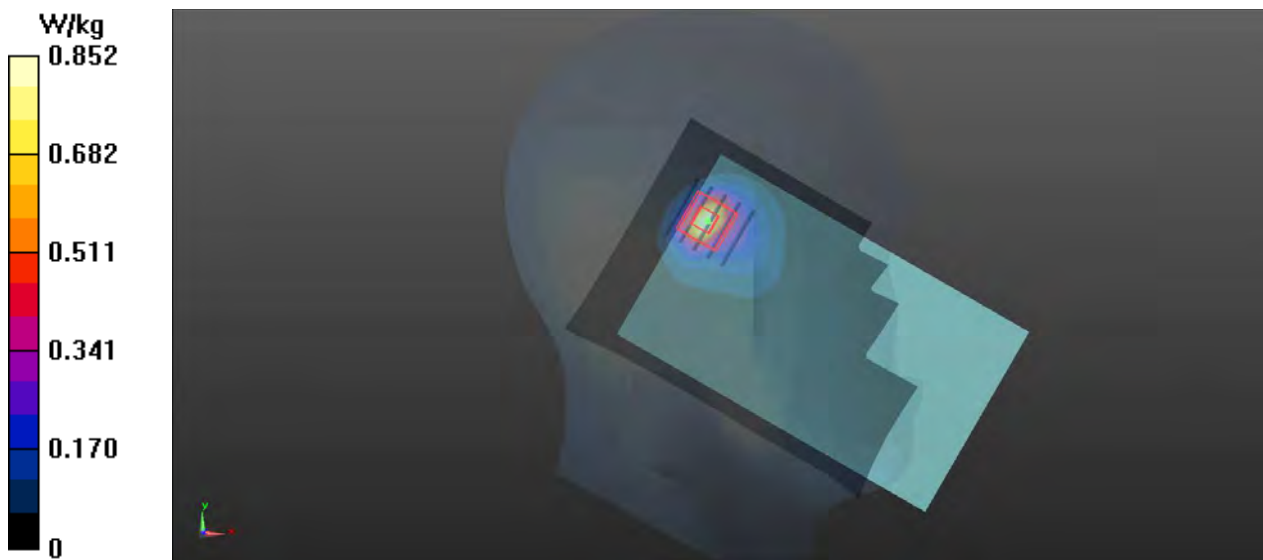
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.209 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.993 W/kg

SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.784 W/kg



P04 LTE 4_QPSK20M_Left Cheek_Ch20050_50RB_OS25

DUT: A20210104W001

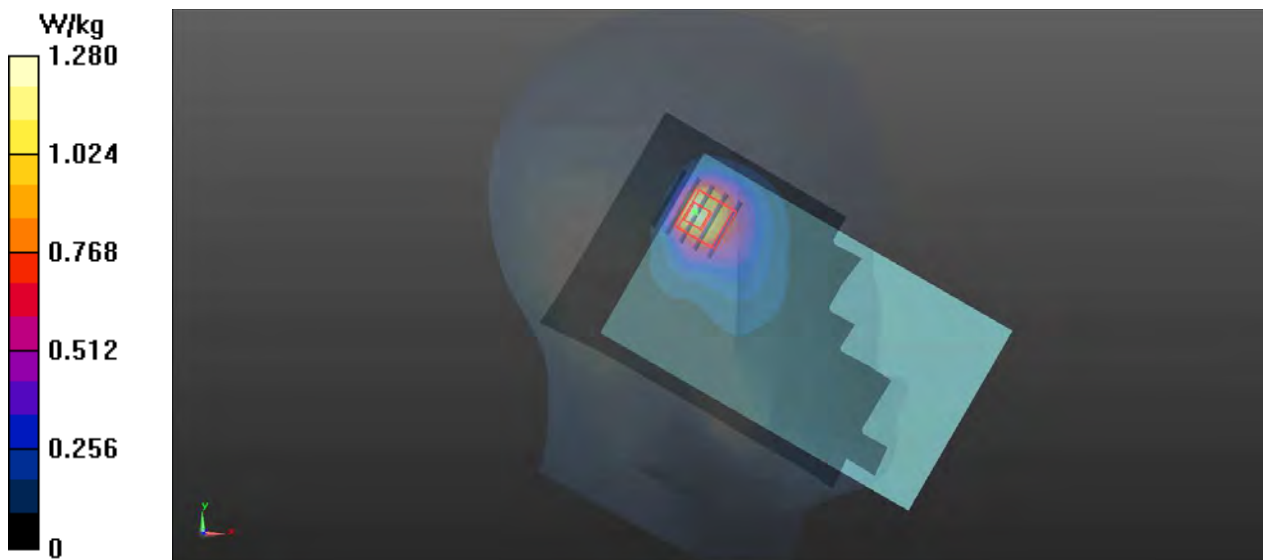
Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1
Medium: HSL1750_0109 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.326$ S/m; $\epsilon_r = 40.878$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.17, 8.17, 8.17); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.28 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.93 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.55 W/kg
SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.424 W/kg
Maximum value of SAR (measured) = 1.24 W/kg



P05 LTE 5_QPSK10M_Left Cheek_Ch20450_25RB_OS0

DUT: A20210104W001

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835_0108 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 41.767$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.5°C ; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x141x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.43 W/kg

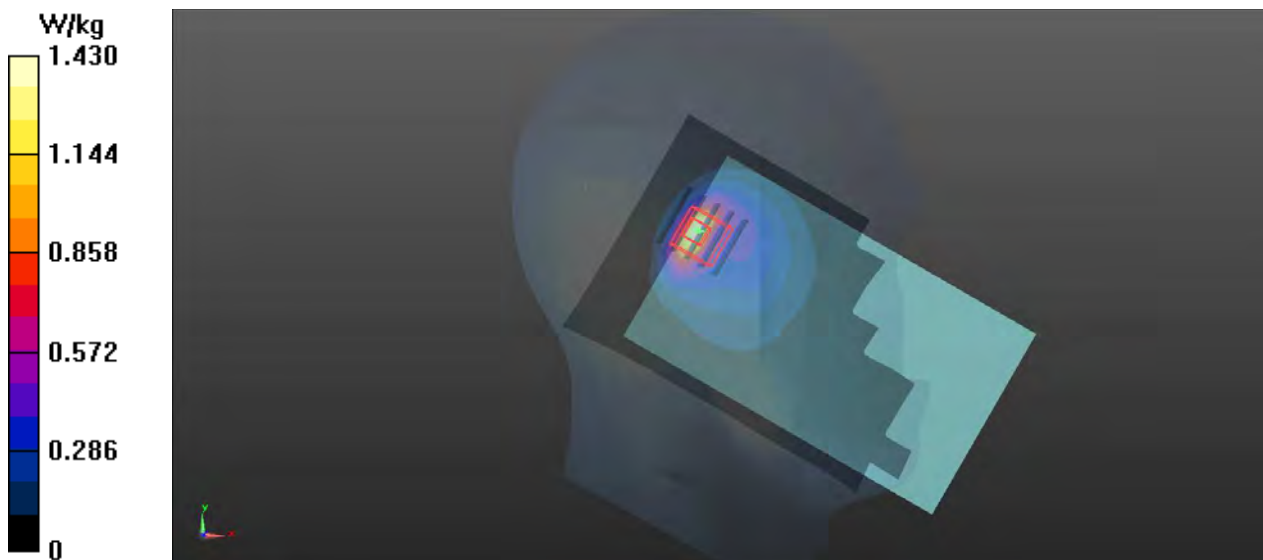
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.48 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.717 W/kg ; SAR(10 g) = 0.366 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



P06 LTE 7_QPSK20M_Left Cheek_Ch20850_50RB_OS0

DUT: A20210104W001

Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600_0112 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 39.277$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x181x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.908 W/kg

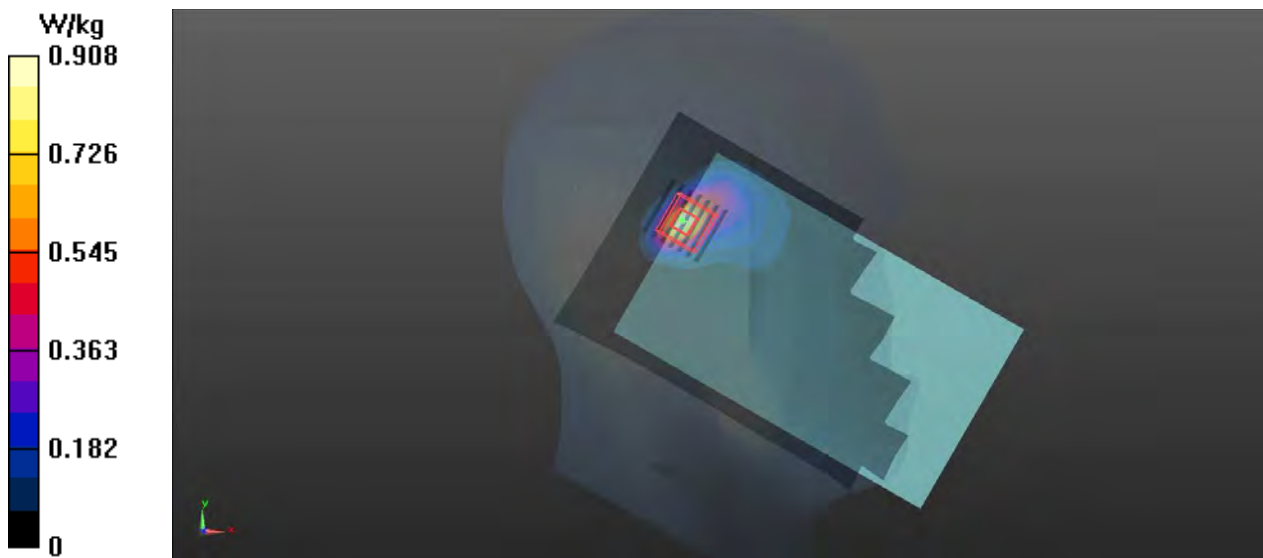
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.378 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 0.964 W/kg



P07 LTE 41_QPSK20M_Left Tilted_Ch39750_1RB_OS50

DUT: A20210104W001

Communication System: LTE TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0112 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.935$ S/m; $\epsilon_r = 39.293$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x181x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

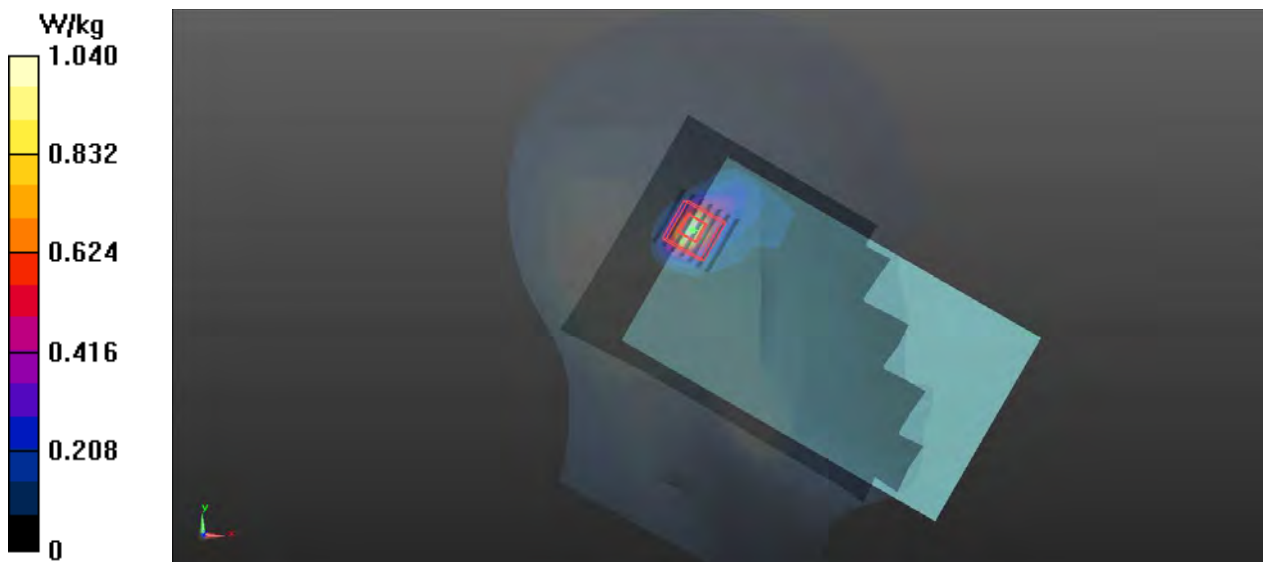
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.69 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.272 W/kg

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



P08 WLAN2.4G_802.11b_Right Cheek_Ch11

DUT: A20210104W001

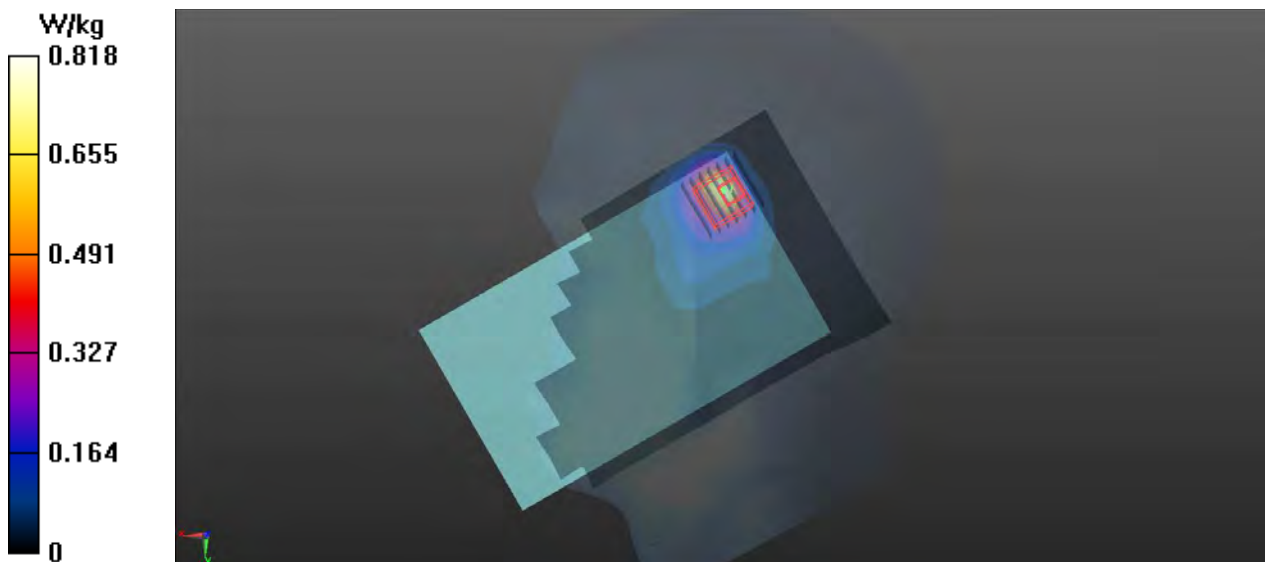
Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HSL2450_0111 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.846$ S/m; $\epsilon_r = 38.614$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.27, 7.27, 7.27); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x101x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.818 W/kg

- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.834 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.208 W/kg
Maximum value of SAR (measured) = 0.791 W/kg



P09 WLAN5G_802.11a_Right Cheek_Ch64

DUT: A20210104W001

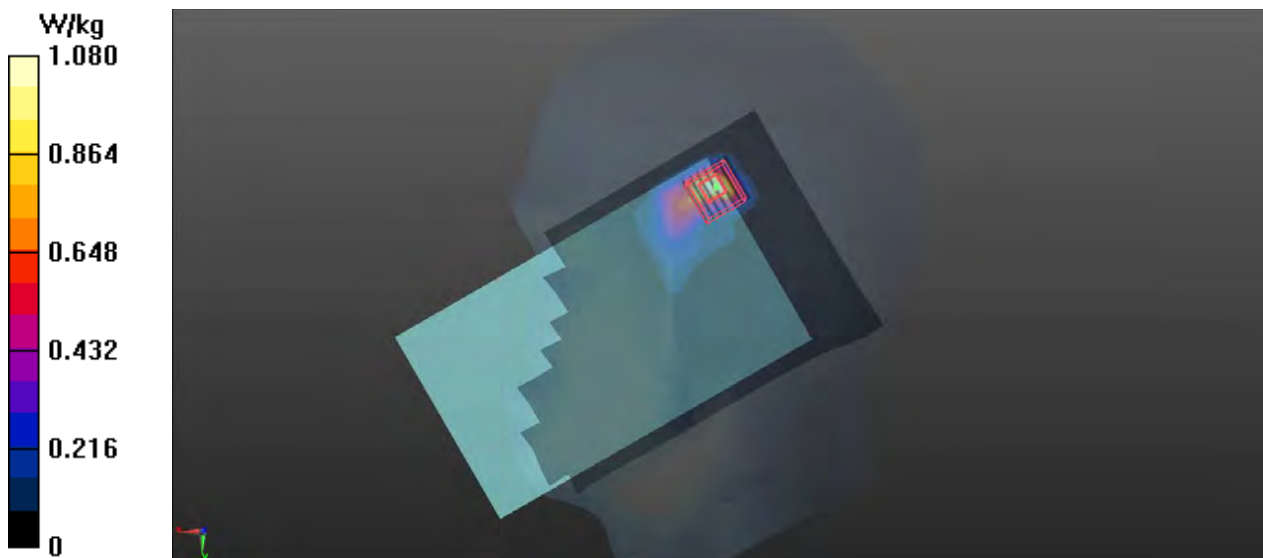
Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1
Medium: HSL5G_0113 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.795$ S/m; $\epsilon_r = 37.197$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (121x221x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.491 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.144 W/kg
Maximum value of SAR (measured) = 1.01 W/kg



P10 WLAN5G_802.11a_Right Cheek_Ch132

DUT: A20210104W001

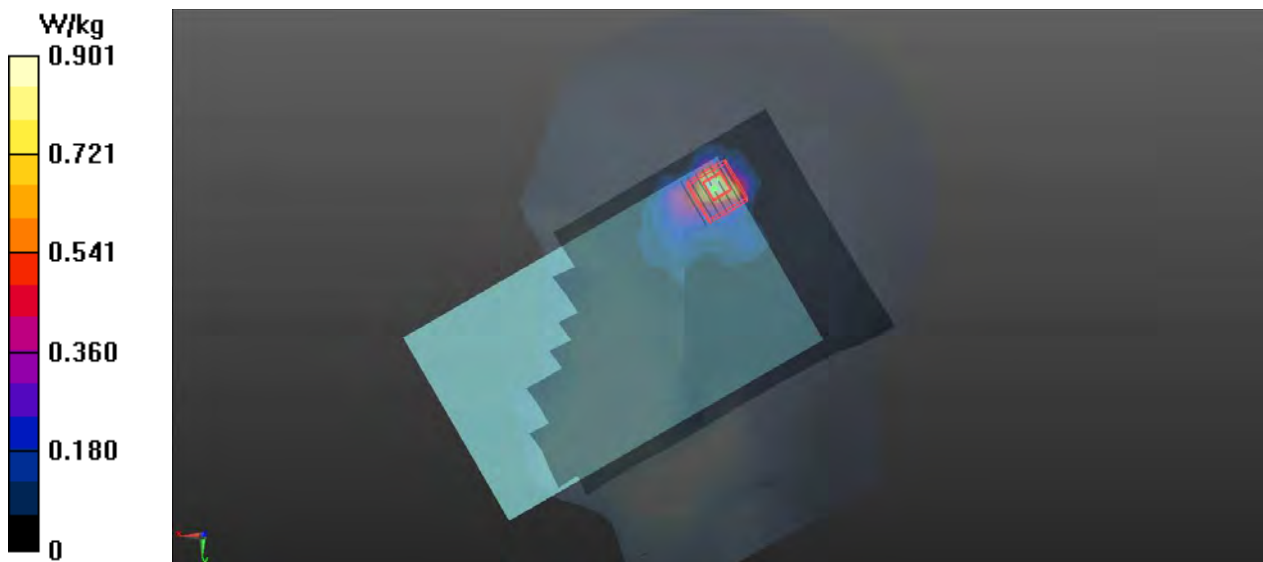
Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1
Medium: HSL5G_0114 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.128$ S/m; $\epsilon_r = 36.735$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (121x221x1)**: Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.901 W/kg

- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.079 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.66 W/kg
SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.127 W/kg
Maximum value of SAR (measured) = 0.903 W/kg



P11 WLAN5G_802.11a_Right Cheek_Ch165

DUT: A20210104W001

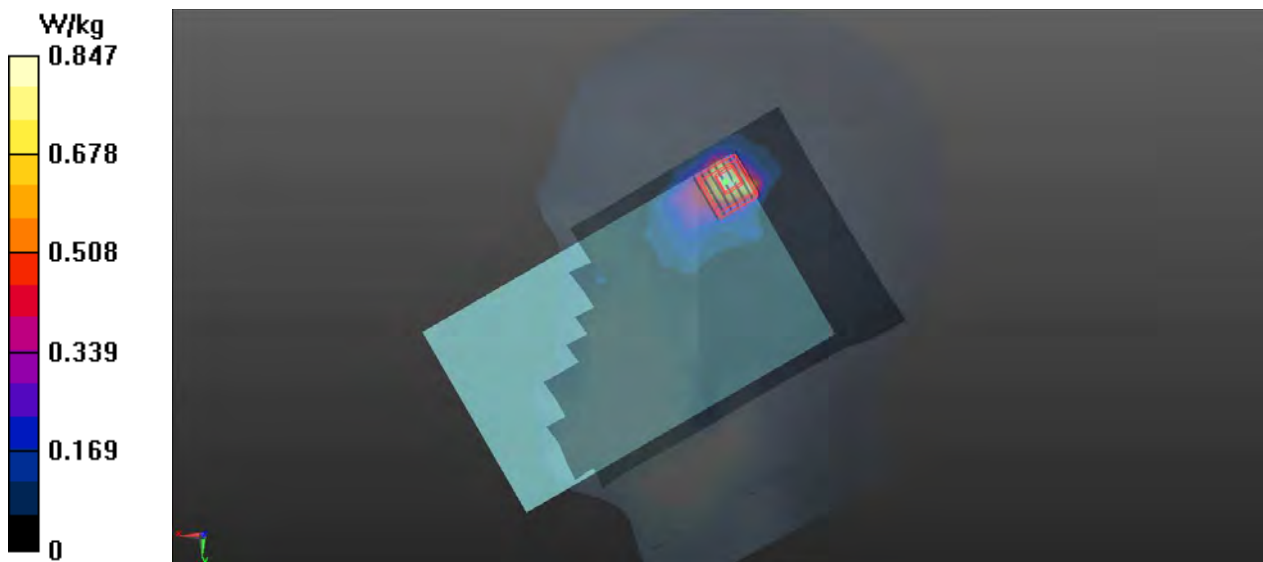
Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1
Medium: HSL5G_0115 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.292$ S/m; $\epsilon_r = 36.512$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (121x221x1)**: Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.847 W/kg

- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.9000 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.67 W/kg
SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.129 W/kg
Maximum value of SAR (measured) = 0.915 W/kg



P12 BT_GFSK_Right Cheek_Ch78

DUT: A20210104W001

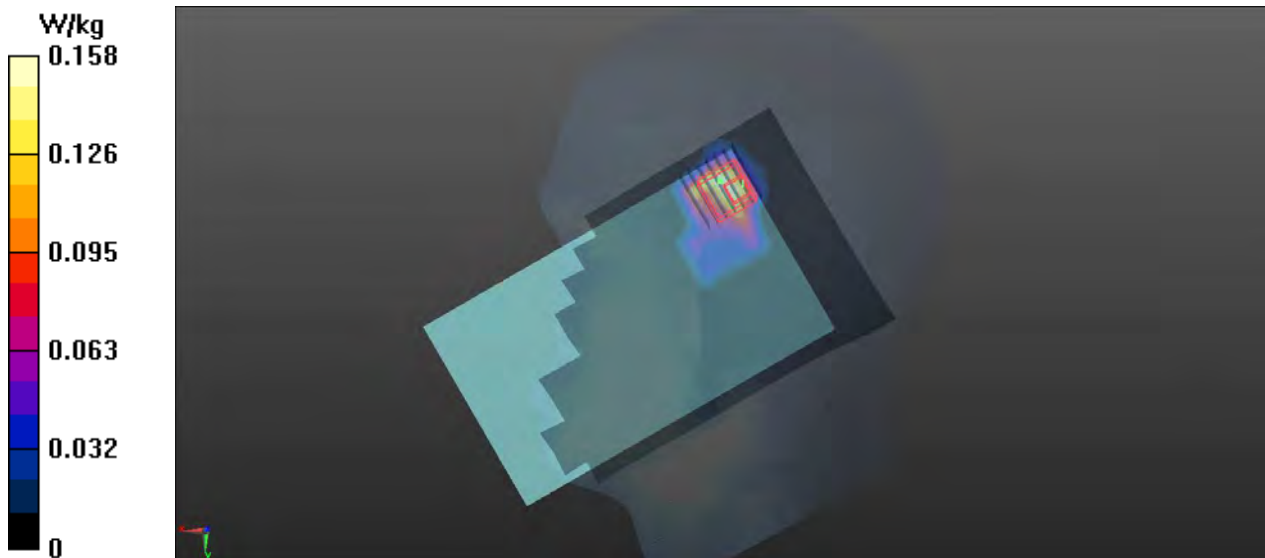
Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.2
Medium: HSL2450_0111 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 38.539$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.27, 7.27, 7.27); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x181x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.158 W/kg

- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.060 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.228 W/kg
SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.044 W/kg
Maximum value of SAR (measured) = 0.156 W/kg



P13 GSM850_GPRS12_Front Face_10mm_Ch251

DUT: A20210104W001

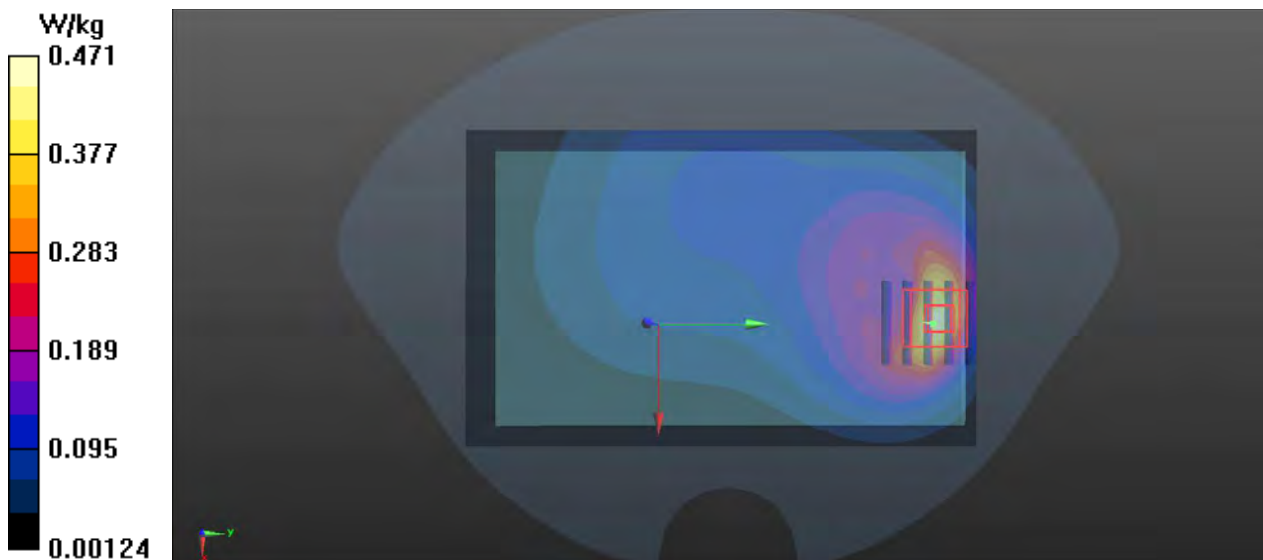
Communication System: GPRS12; Frequency: 848.8 MHz; Duty Cycle: 1:2.08
Medium: HSL835_0108 Medium parameters used: $f = 849$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.609$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.471 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.184 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.542 W/kg
SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.172 W/kg
Maximum value of SAR (measured) = 0.442 W/kg



P14 GSM1900_GPRS12_Front Face_10mm_Ch810

DUT: A20210104W001

Communication System: GPRS12; Frequency: 1909.8 MHz; Duty Cycle: 1:2.08

Medium: HSL1900_0110 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 39.719$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.94, 7.94, 7.94); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.393 W/kg

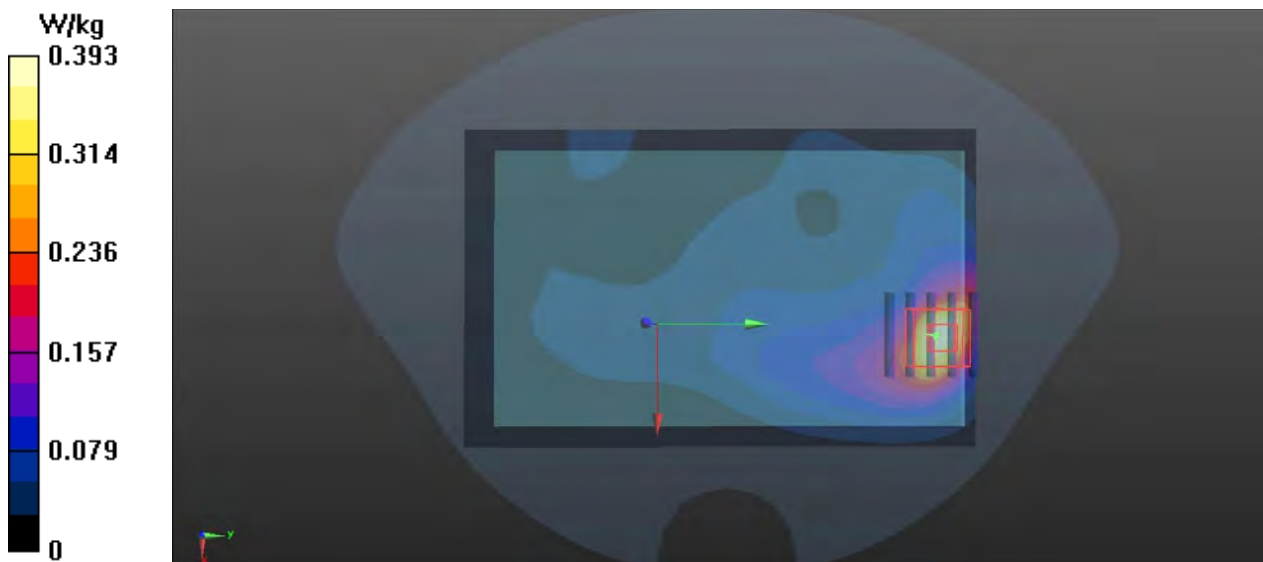
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.155 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.420 W/kg



P15 LTE 2_QPSK20M_Rear Face_14mm_Ch18700_1RB_OS50**DUT: A20210104W001**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_0110 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 39.945$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.94, 7.94, 7.94); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.756 W/kg

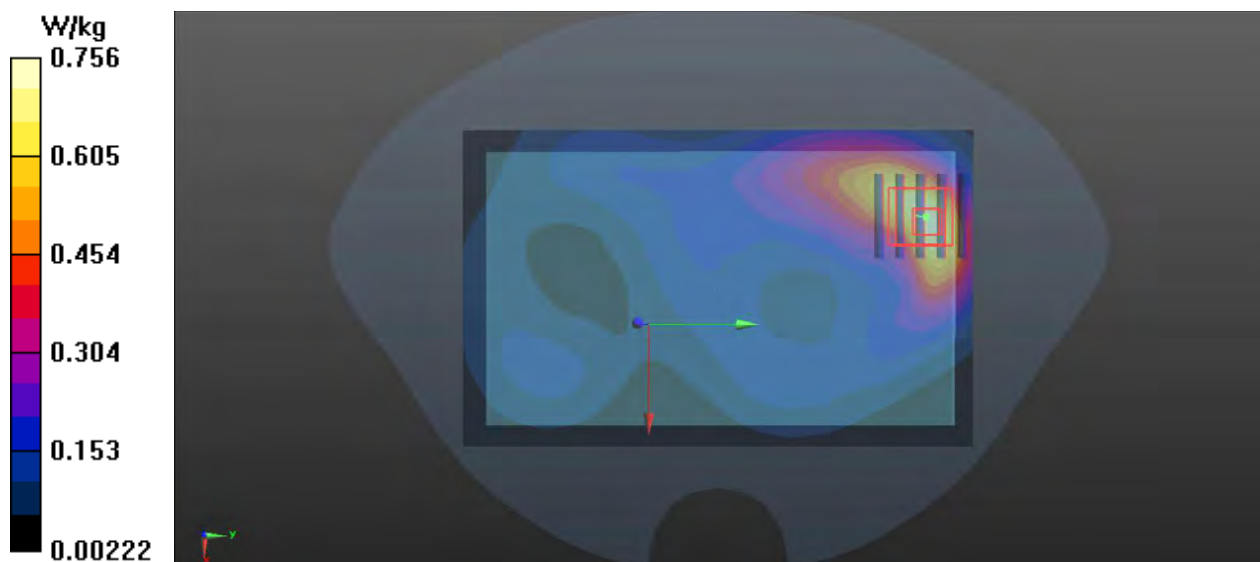
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.084 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.291 W/kg

Maximum value of SAR (measured) = 0.734 W/kg



P16 LTE 4_QPSK20M_Rear Face_14mm_Ch20300_1RB_OS50

DUT: A20210104W001

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750_0109 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 40.781$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.17, 8.17, 8.17); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.697 W/kg

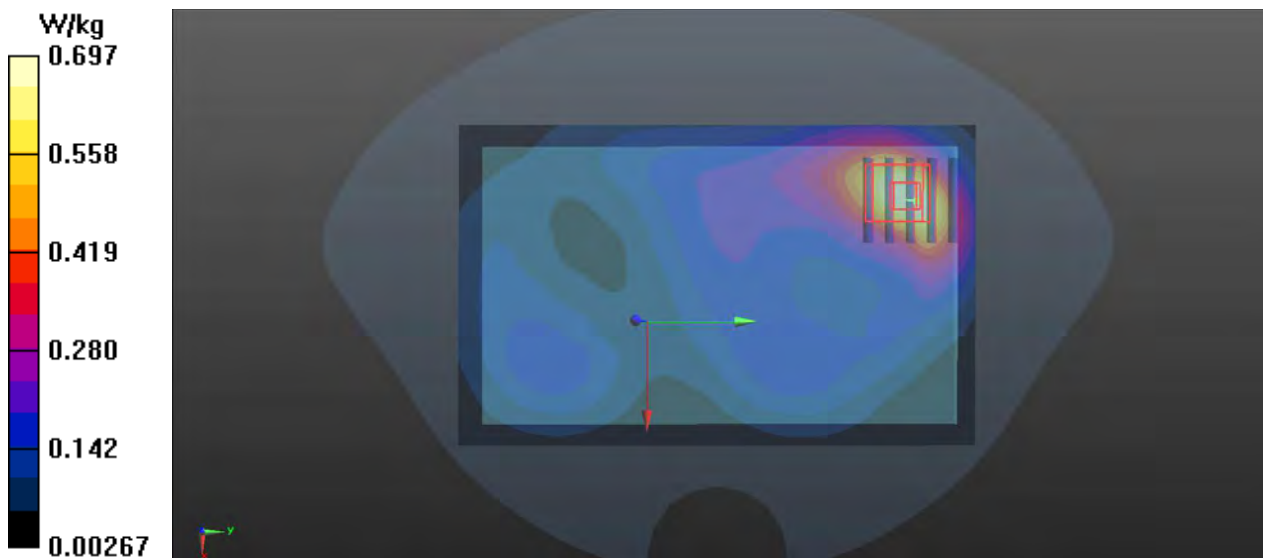
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.02 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.835 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 0.702 W/kg



P17 LTE 5_QPSK10M_Rear Face_14mm_Ch20525_1RB_OS24

DUT: A20210104W001

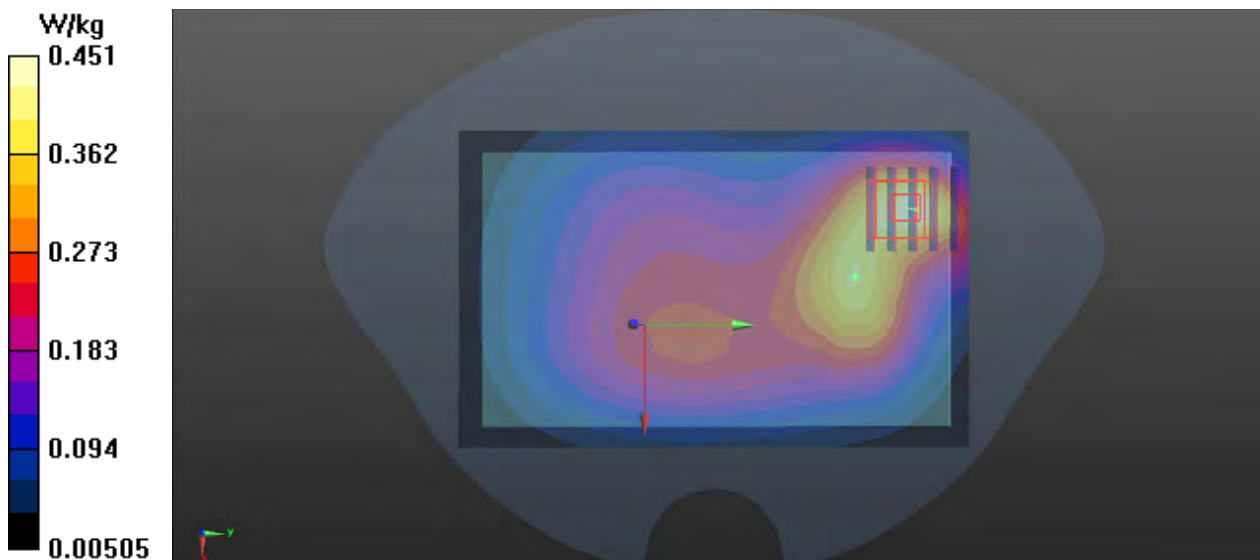
Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: HSL835_0108 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.708$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.451 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.76 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.512 W/kg
SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.201 W/kg
Maximum value of SAR (measured) = 0.439 W/kg



P18 LTE 7_QPSK20M_Front Face_21mm_Ch20850_1RB_OS50

DUT: A20210104W001

Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600_0112 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 39.277$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.46 W/kg

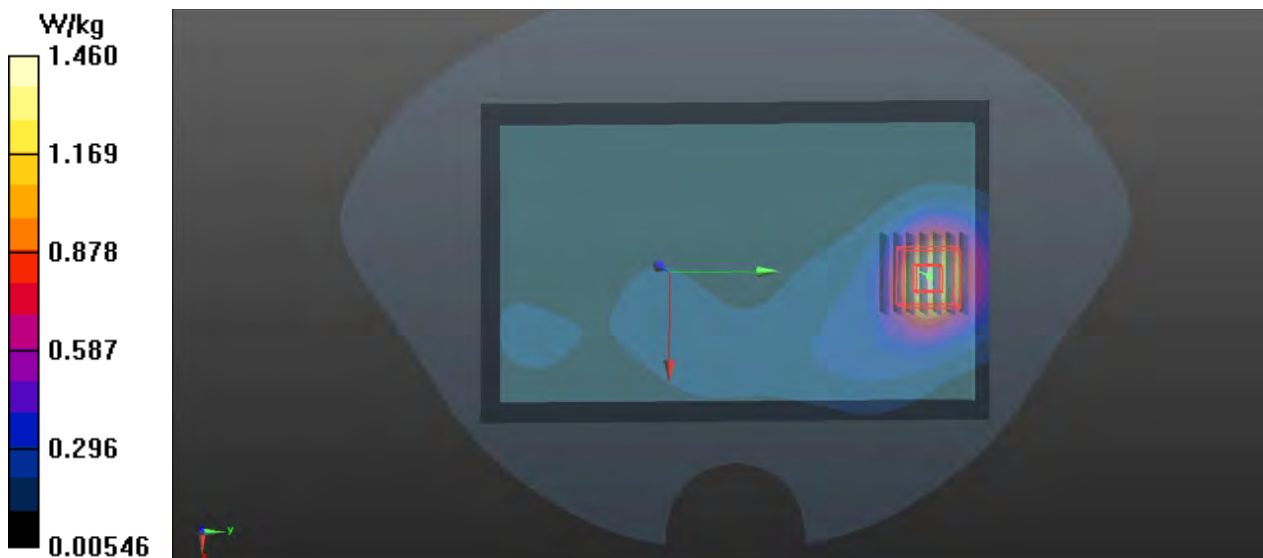
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.549 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.951 W/kg; SAR(10 g) = 0.504 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



P19 LTE 41_QPSK20M_Front Face_10mm_Ch39750_1RB_OS50

DUT: A20210104W001

Communication System: LTE TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0112 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.935$ S/m; $\epsilon_r = 39.293$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1)**: Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.521 W/kg

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

Reference Value = 2.115 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.146 W/kg

Maximum value of SAR (measured) = 0.510 W/kg



P20 WLAN2.4G_802.11b_Rear Face_10mm_Ch11

DUT: A20210104W001

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450_0111 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.846$ S/m; $\epsilon_r = 38.614$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.27, 7.27, 7.27); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.449 W/kg

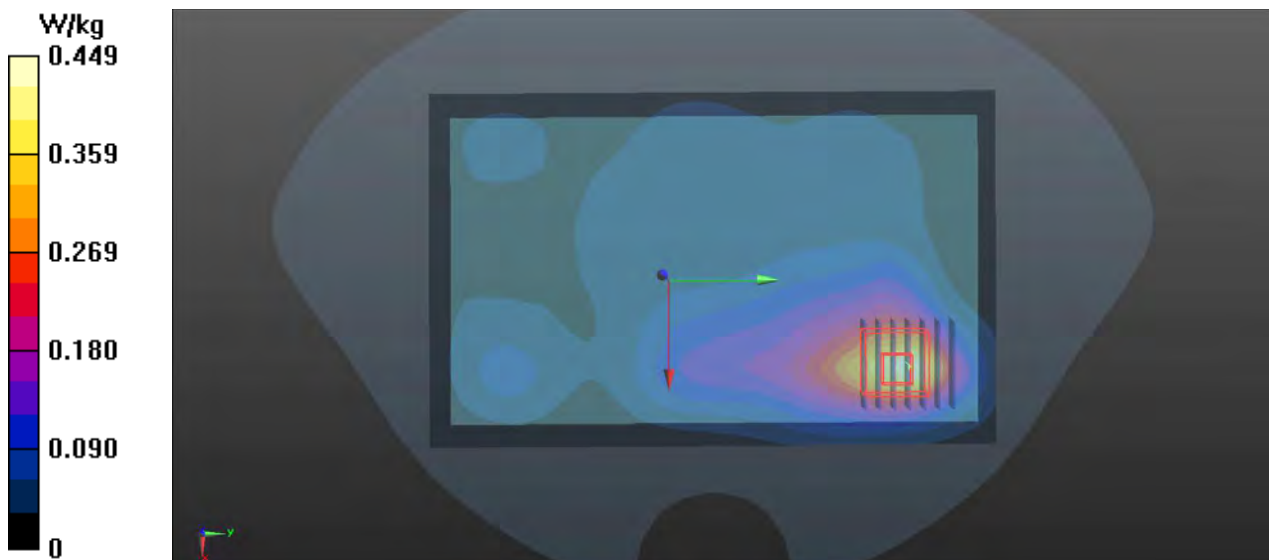
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.310 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.366 W/kg



P21 WLAN5G_802.11a_Front Face_13mm_Ch64

DUT: A20210104W001

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1
Medium: HSL5G_0113 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.795$ S/m; $\epsilon_r = 37.197$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (121x71x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.598 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 1.344 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.970 W/kg
SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.100 W/kg
Maximum value of SAR (measured) = 0.607 W/kg



P23 WLAN5G_802.11a_Front Face_13mm_Ch165

DUT: A20210104W001

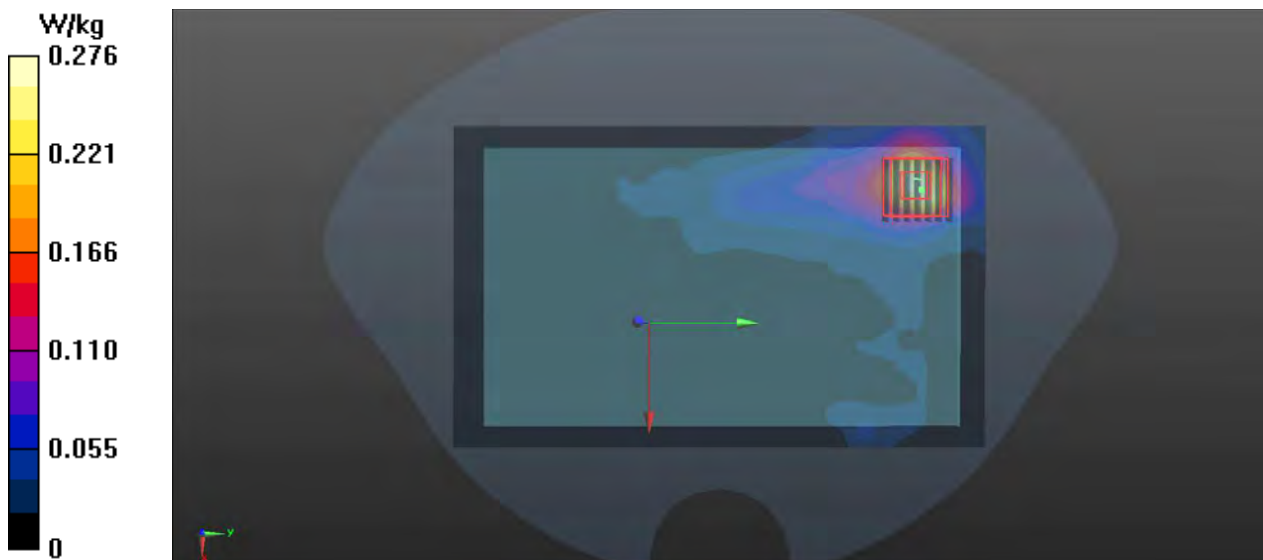
Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1
Medium: HSL5G_0115 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.292$ S/m; $\epsilon_r = 36.512$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (121x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.276 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.478 W/kg
SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.265 W/kg



P24 BT_GFSK_Front Face_10mm_Ch78

DUT: A20210104W001

Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.2

Medium: HSL2450_0111 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 38.539$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.27, 7.27, 7.27); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0454 W/kg

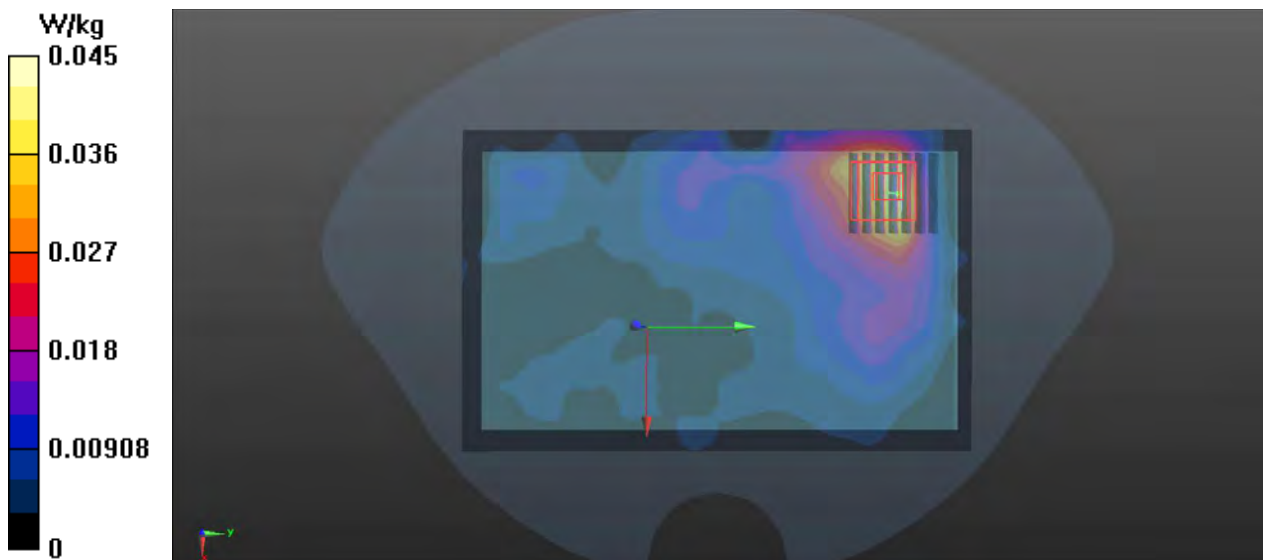
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.376 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.0560 W/kg

SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.015 W/kg

Maximum value of SAR (measured) = 0.0448 W/kg



P25 GSM850_GPRS12_Front Face_10mm_Ch251

DUT: A20210104W001

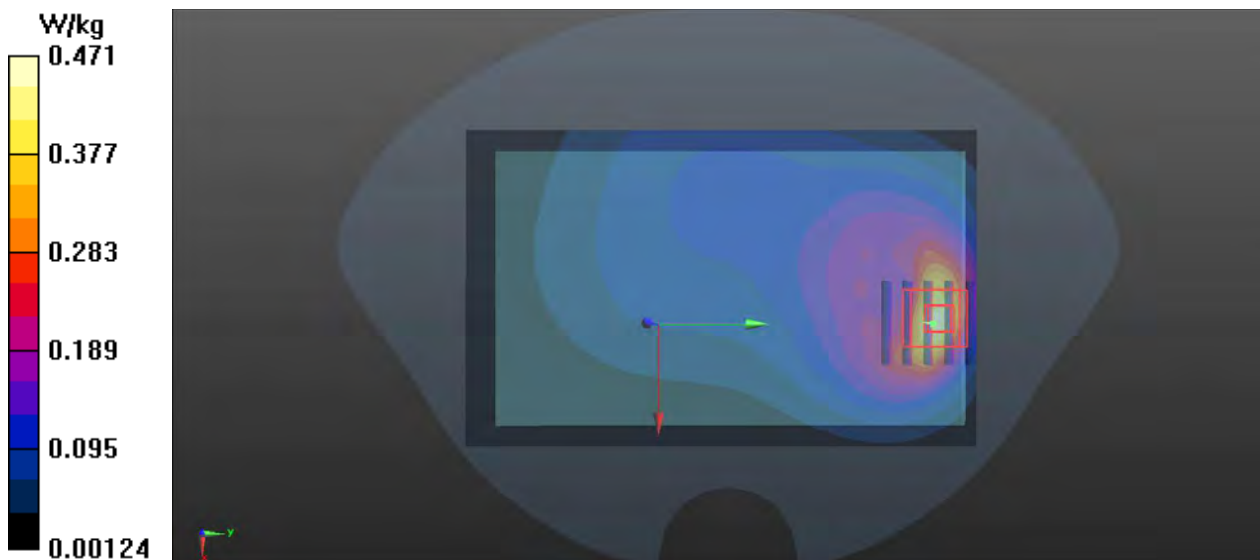
Communication System: GPRS12; Frequency: 848.8 MHz; Duty Cycle: 1:2.08
Medium: HSL835_0108 Medium parameters used: $f = 849$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.609$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.471 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.184 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.542 W/kg
SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.172 W/kg
Maximum value of SAR (measured) = 0.442 W/kg



P26 GSM1900_GPRS12_Front Face_10mm_Ch810

DUT: A20210104W001

Communication System: GPRS12; Frequency: 1909.8 MHz; Duty Cycle: 1:2.08

Medium: HSL1900_0110 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 39.719$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.94, 7.94, 7.94); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.393 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.155 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.420 W/kg



P27 LTE 2_QPSK20M_Rear Face_14mm_Ch18700_1RB_OS50

DUT: A20210104W001

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_0110 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 39.945$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.94, 7.94, 7.94); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.756 W/kg

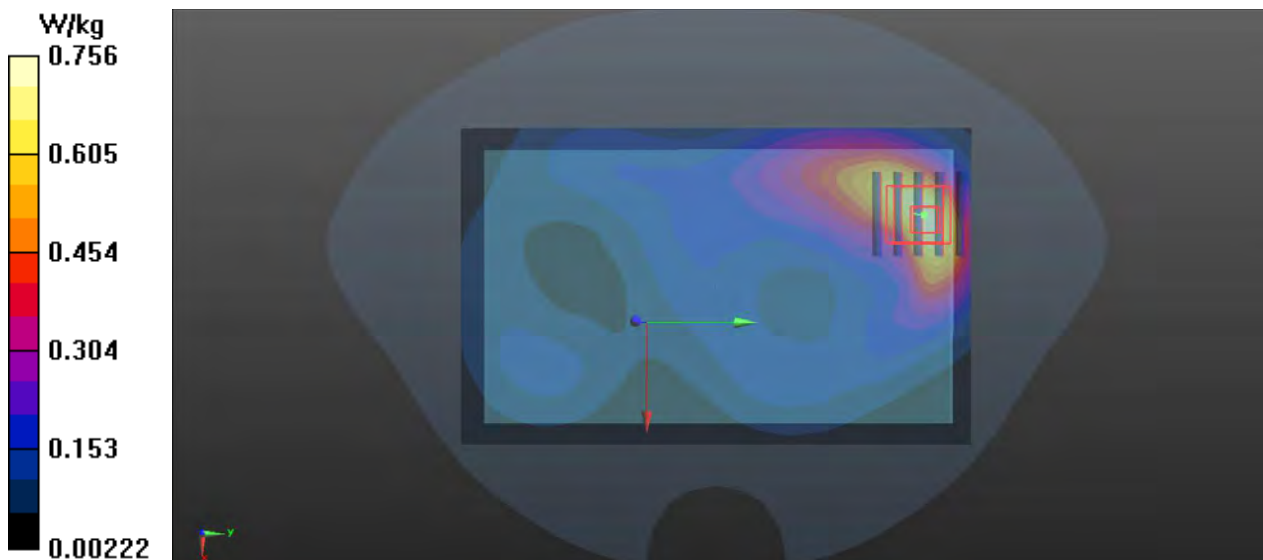
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.084 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.291 W/kg

Maximum value of SAR (measured) = 0.734 W/kg



P28 LTE 4_QPSK20M_Rear Face_14mm_Ch20300_1RB_OS50

DUT: A20210104W001

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750_0109 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 40.781$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.17, 8.17, 8.17); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.697 W/kg

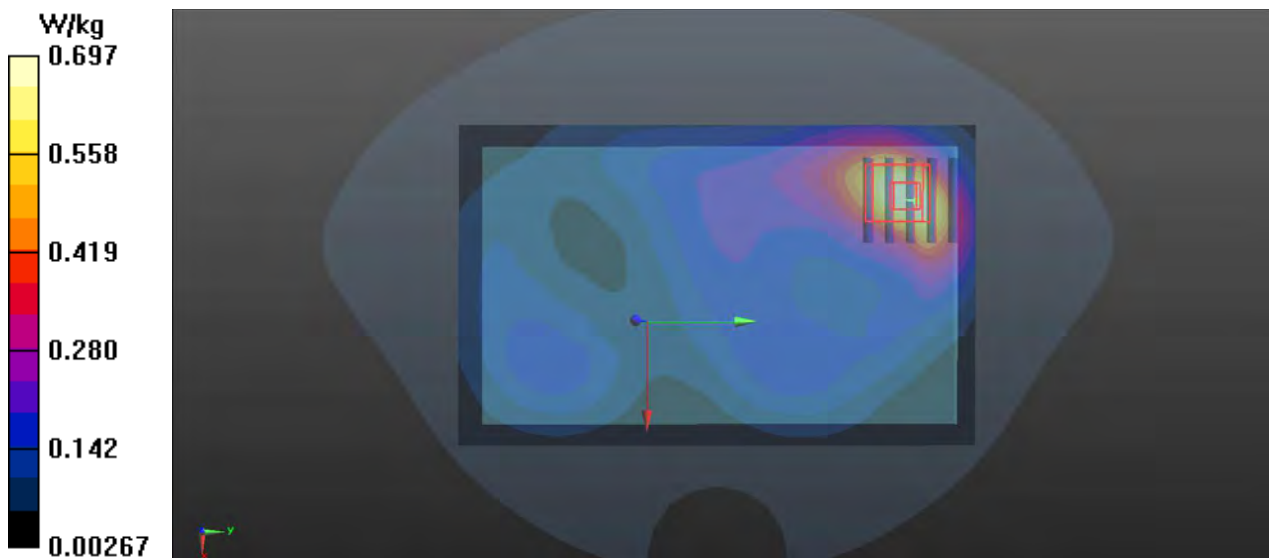
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.02 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.835 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 0.702 W/kg



P29 LTE 5_QPSK10M_Rear Face_14mm_Ch20525_1RB_OS24

DUT: A20210104W001

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0108 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.708$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.451 W/kg

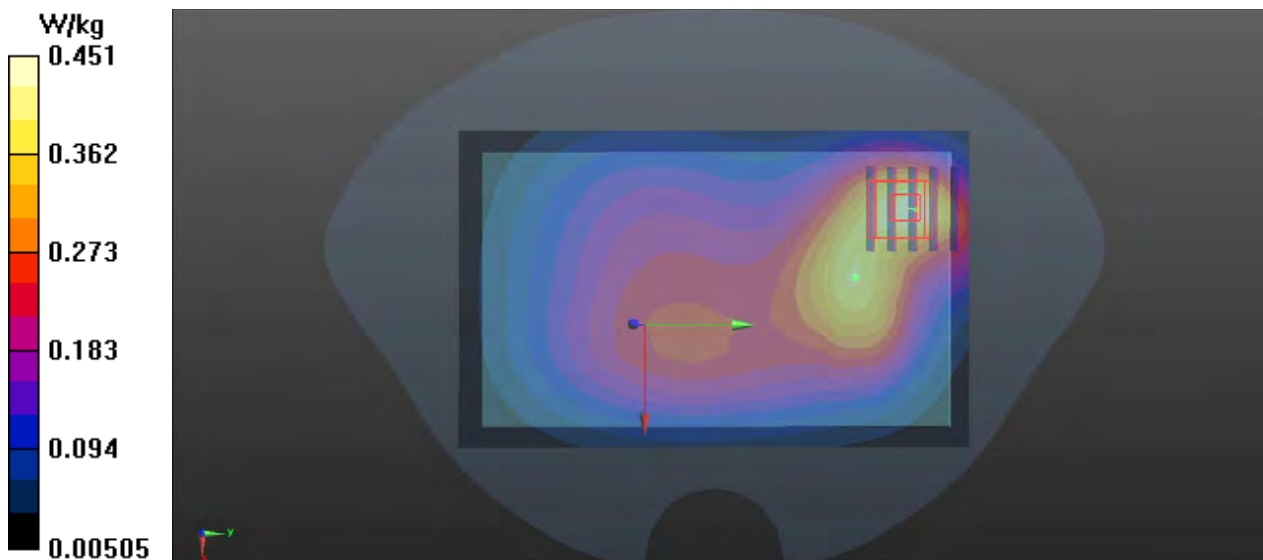
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.76 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.201 W/kg

Maximum value of SAR (measured) = 0.439 W/kg



P30 LTE 7_QPSK20M_Top Side_23mm_Ch20850_1RB_OS50

DUT: A20210104W001

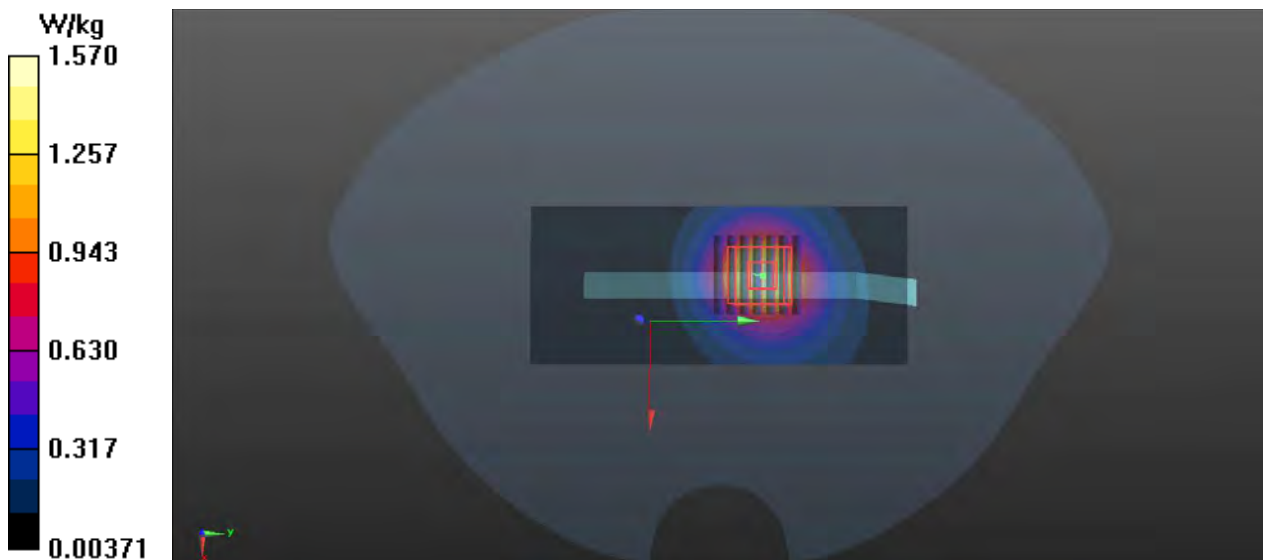
Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: HSL2600_0112 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 39.277$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (51x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.57 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.65 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.545 W/kg
Maximum value of SAR (measured) = 1.54 W/kg



P31 LTE 41_QPSK20M_Top Side_10mm_Ch39750_1RB_OS50

DUT: A20210104W001

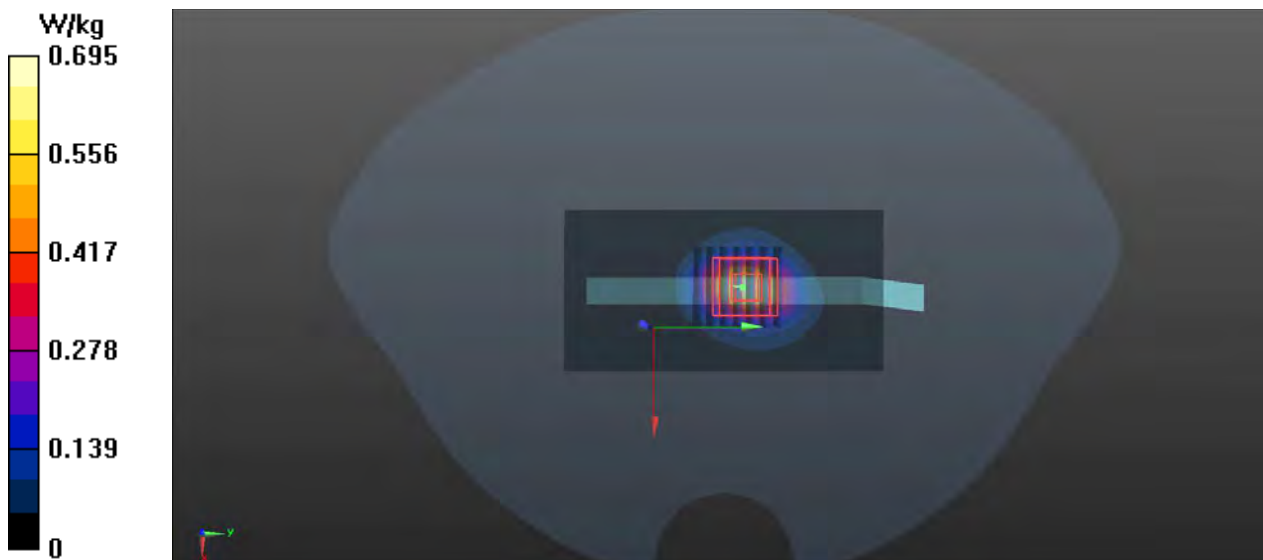
Communication System: LTE TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59
Medium: HSL2600_0112 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.935$ S/m; $\epsilon_r = 39.293$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (51x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.695 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.73 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.775 W/kg
SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.185 W/kg
Maximum value of SAR (measured) = 0.631 W/kg



P32 WLAN2.4G_802.11b_Rear Face_10mm_Ch11

DUT: A20210104W001

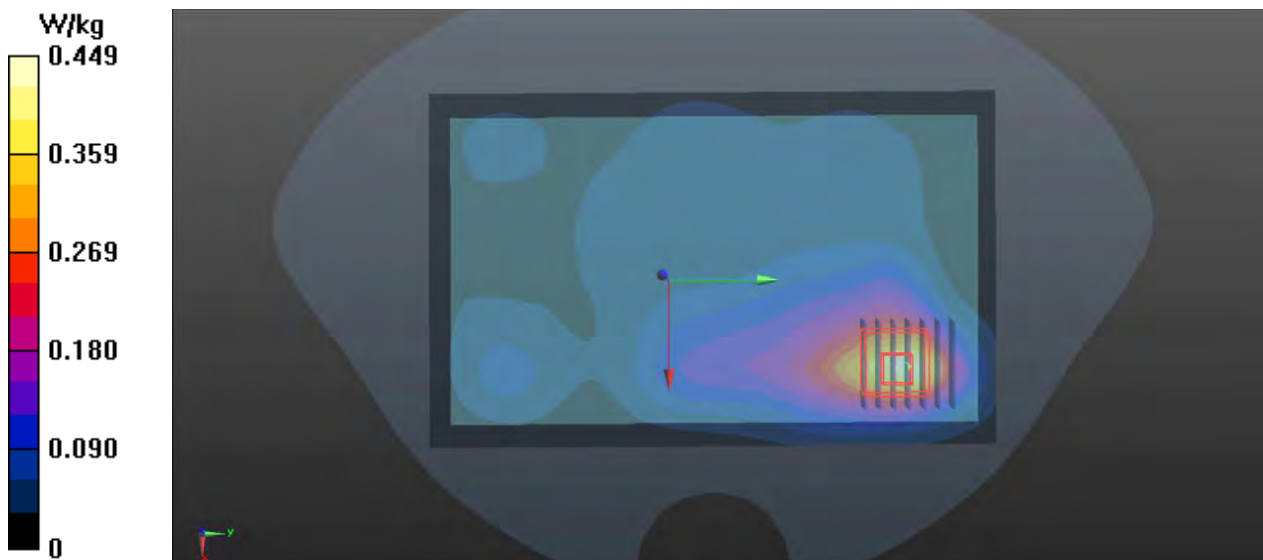
Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HSL2450_0111 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.846$ S/m; $\epsilon_r = 38.614$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.27, 7.27, 7.27); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1)**: Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.449 W/kg

- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 4.310 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.458 W/kg
SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.125 W/kg
Maximum value of SAR (measured) = 0.366 W/kg



P33 WLAN5G_802.11a_Left Side_10mm_Ch40

DUT: A20210104W001

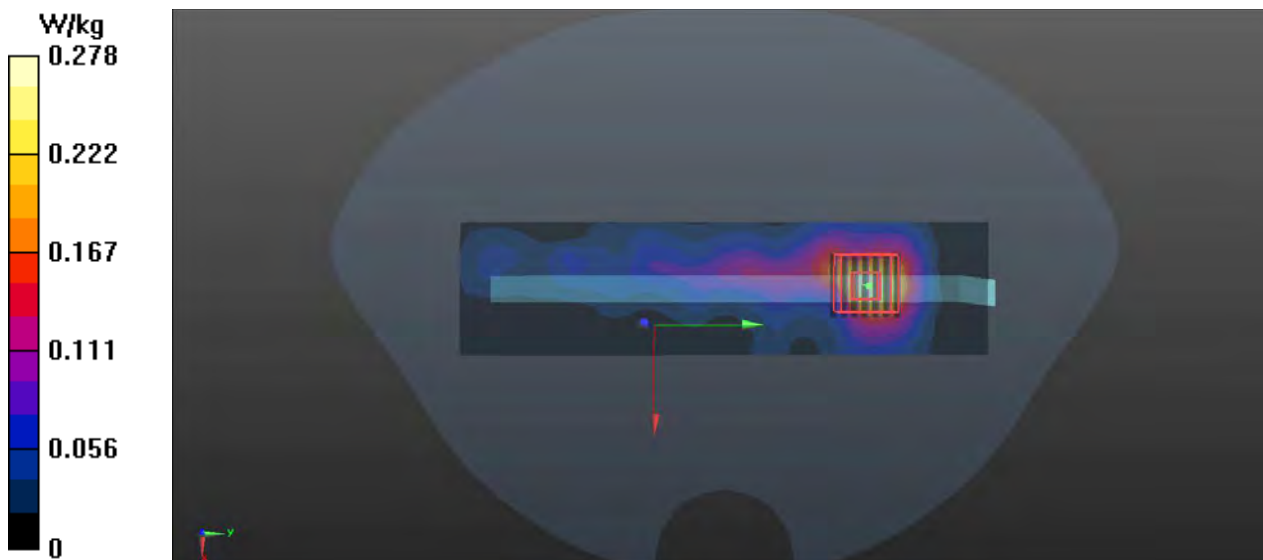
Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium: HSL5G_0113 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 37.358$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (51x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.278 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.833 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.470 W/kg
SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.052 W/kg
Maximum value of SAR (measured) = 0.295 W/kg



P34 WLAN5G_802.11a_Front Face_13mm_Ch165

DUT: A20210104W001

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1
Medium: HSL5G_0115 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.292$ S/m; $\epsilon_r = 36.512$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (121x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.276 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.478 W/kg
SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.265 W/kg



P35 BT_GFSK_Front Face_10mm_Ch78

DUT: A20210104W001

Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.2

Medium: HSL2450_0111 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 38.539$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.27, 7.27, 7.27); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0454 W/kg

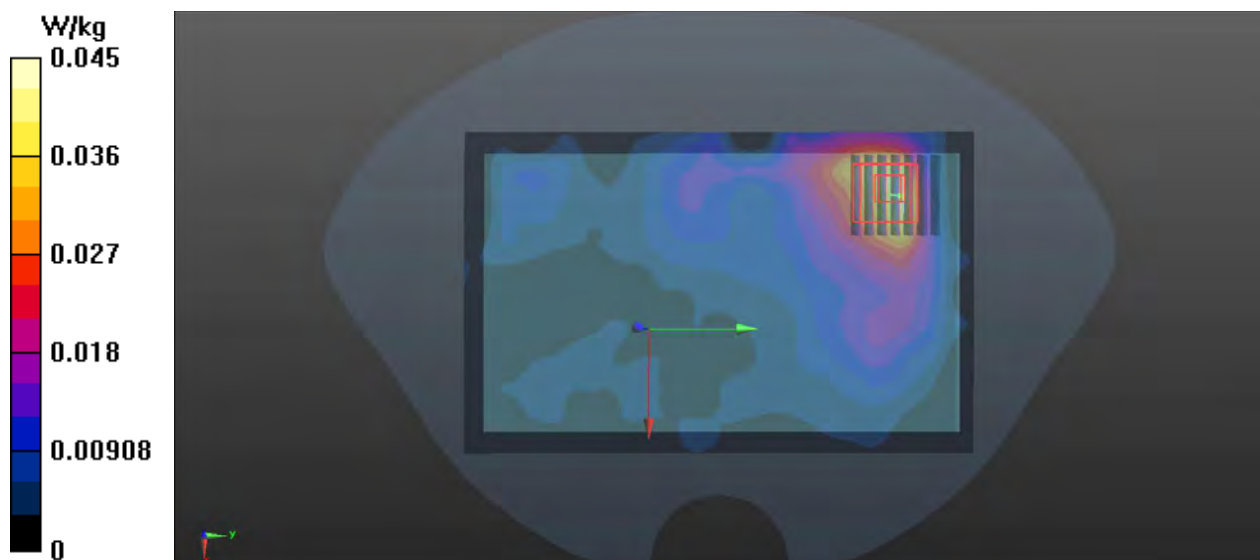
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.376 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.0560 W/kg

SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.015 W/kg

Maximum value of SAR (measured) = 0.0448 W/kg



P36 GSM850_GPRS12_Front Face_0mm_Ch251

DUT: A20210104W001

Communication System: GPRS12; Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium: HSL835_0108 Medium parameters used: $f = 849$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.609$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.46, 9.46, 9.46); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.872 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.499 W/kg

Maximum value of SAR (measured) = 2.15 W/kg



P37 LTE 7_QPSK20M_Top Side_0mm_Ch20850_50RB_OS0

DUT: A20210104W001

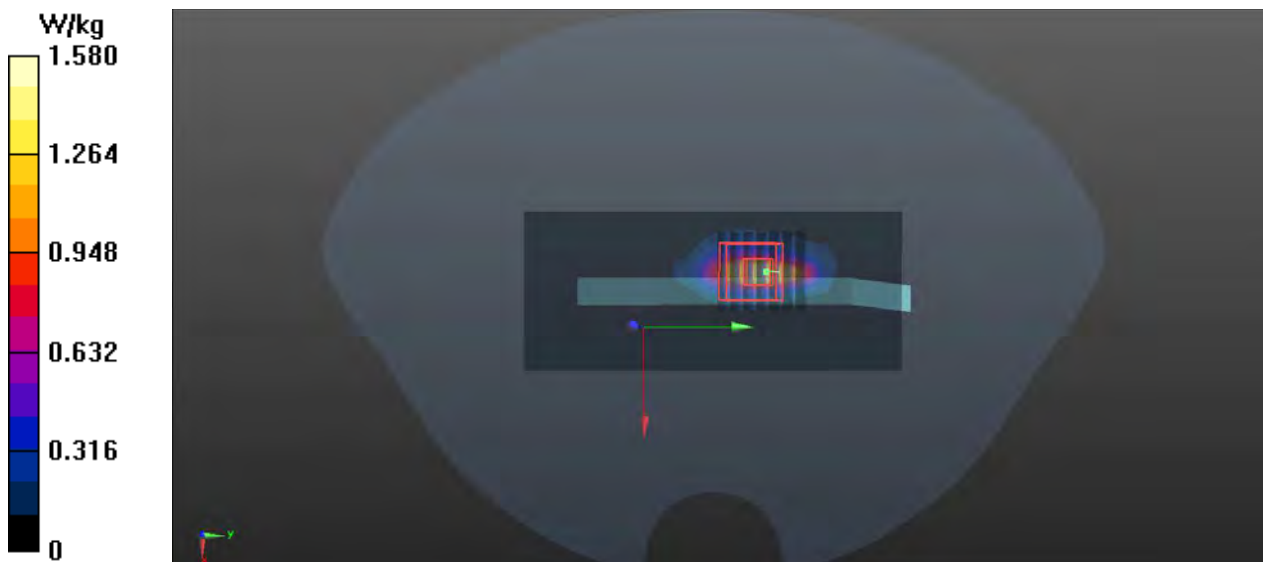
Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: HSL2600_0112 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 39.277$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (51x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.45 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.02 W/kg
SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.306 W/kg
Maximum value of SAR (measured) = 1.49 W/kg



P38 LTE 41_QPSK20M_Top Side_0mm_Ch39750_50RB_OS0

DUT: A20210104W001

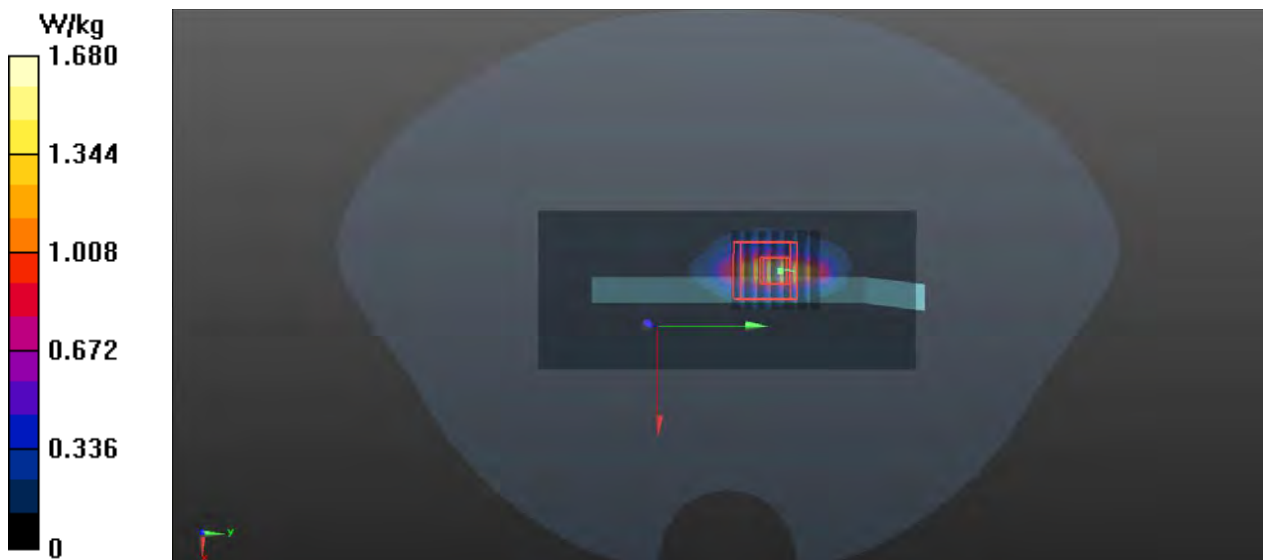
Communication System: LTE TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59
Medium: HSL2600_0112 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.935$ S/m; $\epsilon_r = 39.293$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.18, 7.18, 7.18); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (51x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.68 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.60 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.14 W/kg
SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.325 W/kg
Maximum value of SAR (measured) = 1.57 W/kg



P39 WLAN5G_802.11a_Left Side_0mm_Ch64

DUT: A20210104W001

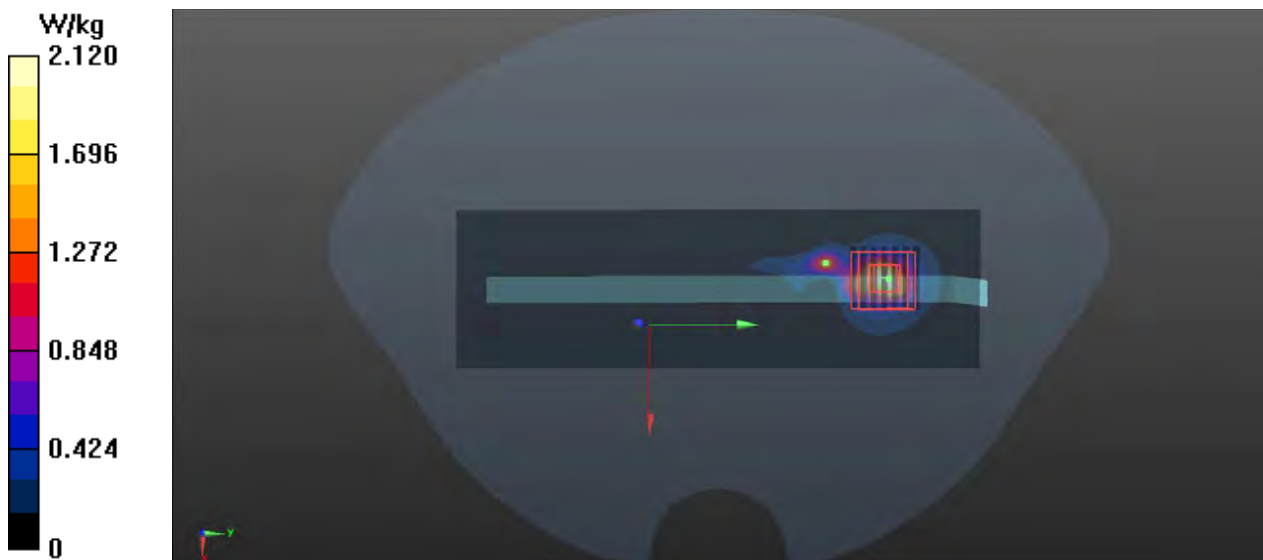
Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1
Medium: HSL5G_0113 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.795$ S/m; $\epsilon_r = 37.197$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (61x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.12 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.175 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 5.34 W/kg
SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.280 W/kg
Maximum value of SAR (measured) = 3.10 W/kg



P40 WLAN5G_802.11a_Left Side_0mm_Ch132

DUT: A20210104W001

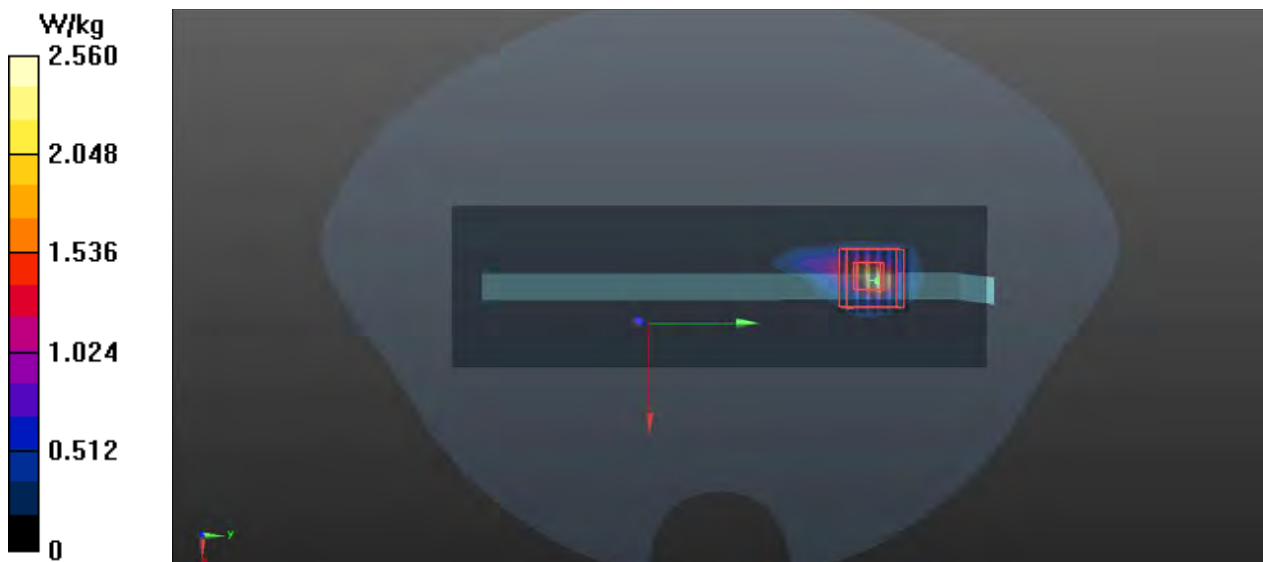
Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1
Medium: HSL5G_0114 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.128$ S/m; $\epsilon_r = 36.735$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5); Calibrated: 2020/08/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 2020/08/26
- Phantom: Front Phantom with CRP v5.0; Type: QD000P40CD; Serial: TP:1695
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (61x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.56 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.8420 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 7.26 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.276 W/kg
Maximum value of SAR (measured) = 3.30 W/kg



Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.



In Collaboration with
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 CALIBRATION LABORATORY



中国认可
 国际互认
 校准
 CALIBRATION
 CNAS L0570

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
 Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
 E-mail: cttl@chinattl.com http://www.chinattl.cn

Client **ADT**

Certificate No: **Z20-60316**

CALIBRATION CERTIFICATE

Object: **D835V2 - SN: 4d139**

Calibration Procedure(s): **FF-Z11-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **August 28, 2020**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	12-May-20 (CTTL, No.J20X02965)	May-21
Power sensor NRP6A	101369	12-May-20 (CTTL, No.J20X02965)	May-21
ReferenceProbe EX3DV4	SN 3617	30-Jan-20(SPEAG,No.EX3-3617_Jan20)	Jan-21
DAE4	SN 771	10-Feb-20(CTTL-SPEAG,No.Z20-60017)	Feb-21
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Feb-20 (CTTL, No.J20X00516)	Feb-21
NetworkAnalyzer E5071C	MY46110673	10-Feb-20 (CTTL, No.J20X00515)	Feb-21

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: September 3, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	41.2 \pm 6 %	0.88 mho/m \pm 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.69 W/kg \pm 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.57 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.37 W/kg \pm 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.3Ω- 2.76jΩ
Return Loss	- 29.1dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.254 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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